

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041422\
 Data File : VL038939.D
 Acq On : 15 Apr 2022 8:41
 Operator : SY/AP
 Sample : N2418-01
 Misc : 400mL/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 AA-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/15/2022
 Supervised By : Mahesh Dadoda 04/18/2022

Quant Time: Apr 15 09:57:27 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	5.65	49	1125136	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2904039	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2623768	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2084771	10.48	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	111103	0.696	ppbv	88
3) Chlorodifluoromethane	2.98	51	64903m	0.473	ppbv	
4) Chloromethane	3.14	50	45332m	0.638	ppbv	
9) Propene	3.02	41	197463m	2.718	ppbv	
10) Heptane	8.10	43	96930m	0.530	ppbv	
11) Trichlorofluoromethane	3.94	101	42572m	0.332	ppbv	
13) Ethanol	3.59	45	445913	100.999	ppbv #	100
15) Acetone	3.84	43	1198154	10.696	ppbv #	86
20) Methylene Chloride	4.34	84	108138m	2.662	ppbv	
25) Ethyl Acetate	5.66	43	413774	1.456	ppbv #	95
26) Hexane	5.67	57	288571	2.231	ppbv #	67
30) Cyclohexane	7.11	84	31650m	0.278	ppbv	
34) 2-Butanone	5.23	43	196838	1.715	ppbv #	90
35) Carbon Tetrachloride	7.00	117	9450m	0.054	ppbv	
36) Benzene	6.87	78	187749	0.711	ppbv #	93
44) 2,2,4-Trimethylpentane	7.85	57	282034m	0.631	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	52573m	0.204	ppbv	
52) Tetrachloroethene	11.20	164	48111m	0.521	ppbv	
53) Toluene	9.79	91	2042119	6.696	ppbv	99
58) Ethyl Benzene	12.69	91	536179	1.368	ppbv #	87
59) m/p-Xylene	12.94	91	1430710	4.344	ppbv	100
60) o-Xylene	13.67	91	531691	1.725	ppbv	95
61) Styrene	13.51	104	75875	0.404	ppbv	93
72) 4-Ethyltoluene	15.82	105	69711	0.189	ppbv #	91
73) 1,3,5-Trimethylbenzene	15.98	105	60779m	0.184	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	211818	0.606	ppbv #	65

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

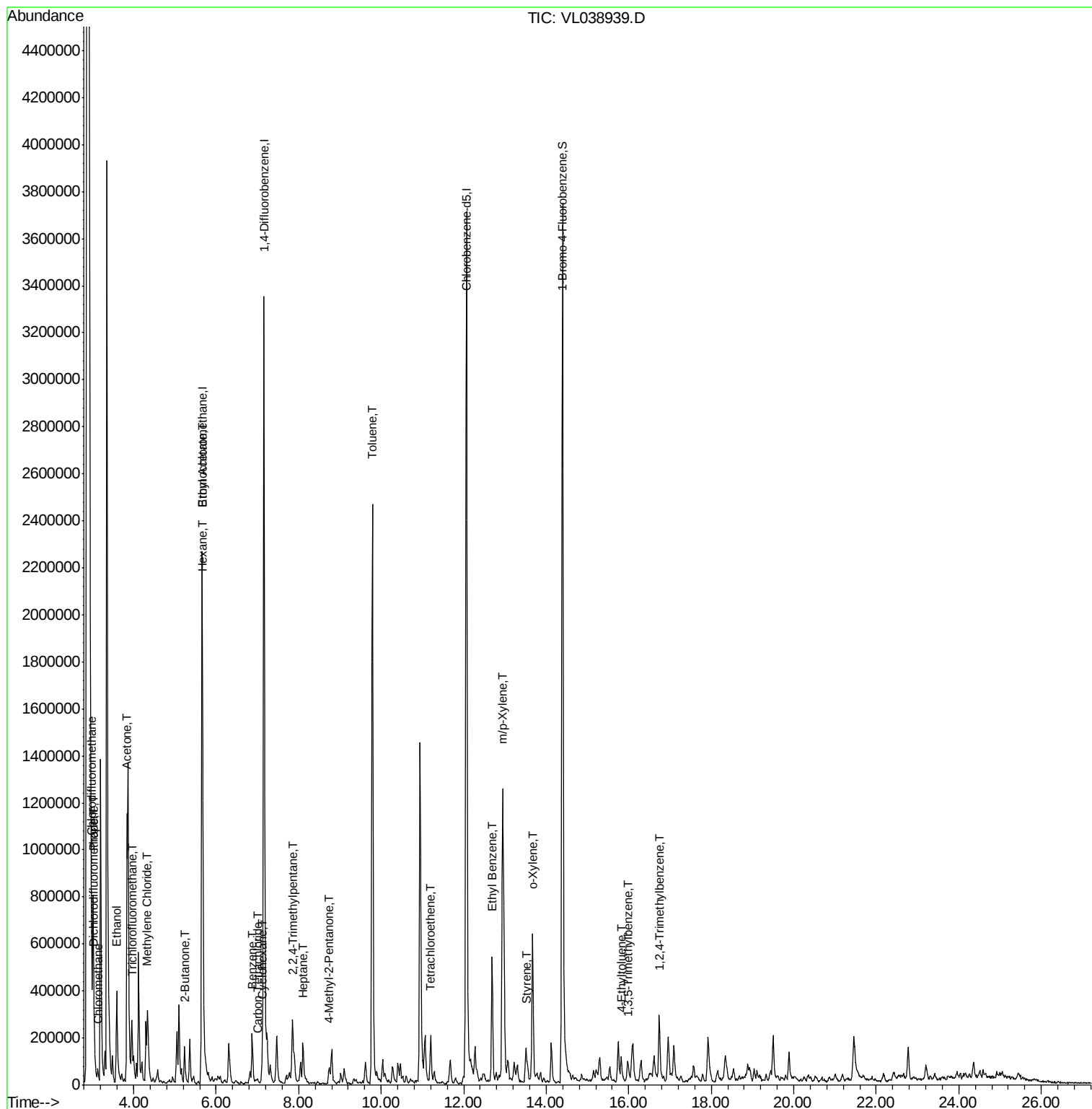
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041422\
Data File : VL038939.D
Acq On : 15 Apr 2022 8:41
Operator : SY/AP
Sample : N2418-01
Misc : 400mL/MSVOA L
ALS Vial : 6 Sample Multiplier: 1

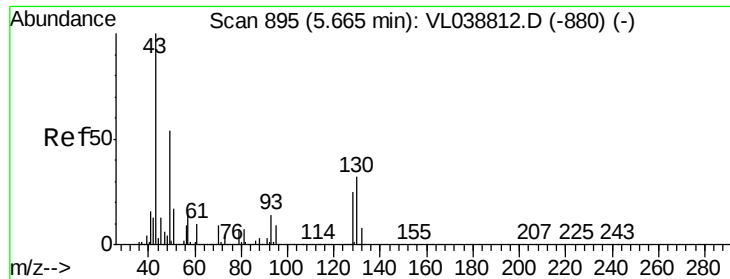
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Quant Time: Apr 15 09:57:27 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 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: AA-1

Acq: 15 Apr 2022 8:41

Tot Ion:

Ion Ratio

49 100

128 48.

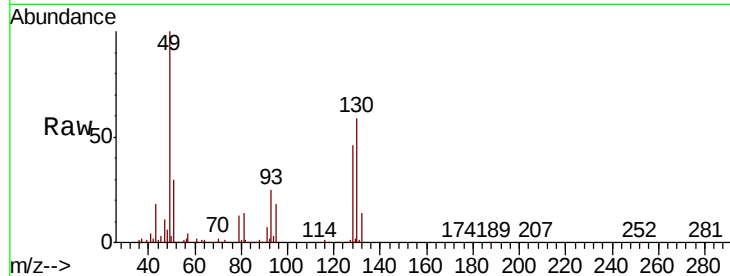
130 61.

Manual Integrations

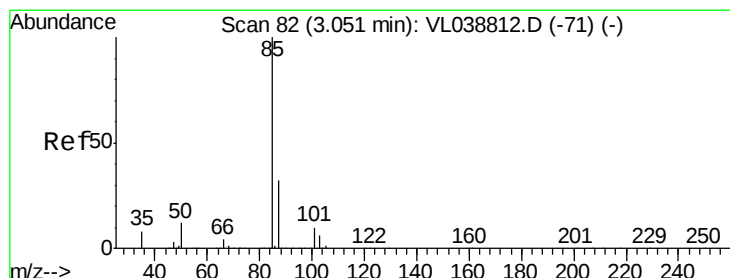
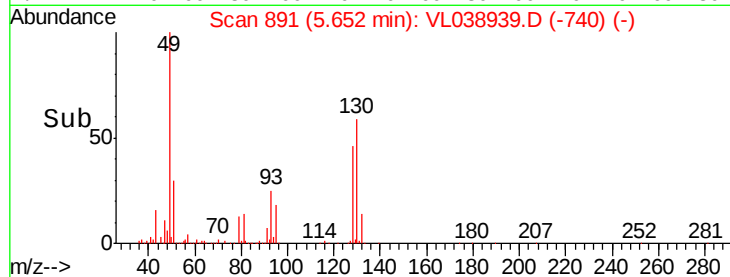
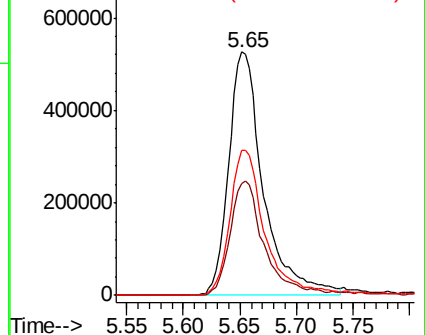
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Supervised By :Mahesh Dadoda 04/18/2022



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.696 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL038939.D

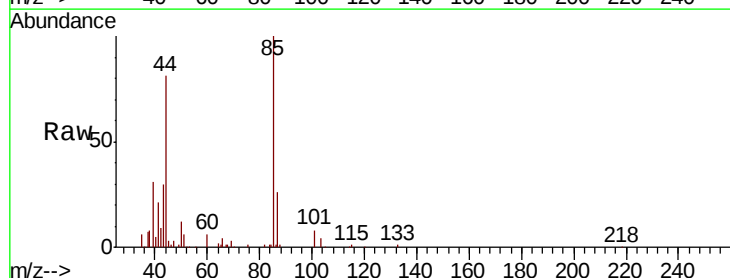
Acq: 15 Apr 2022 8:41

Tgt Ion: 85 Resp: 111103

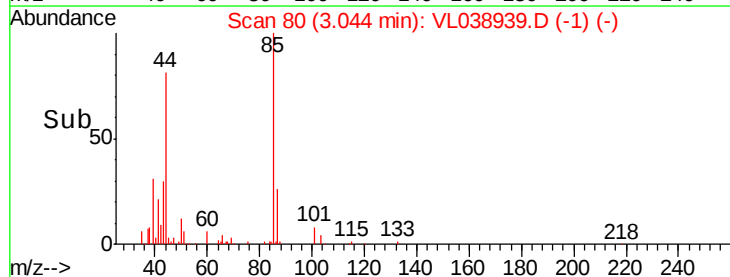
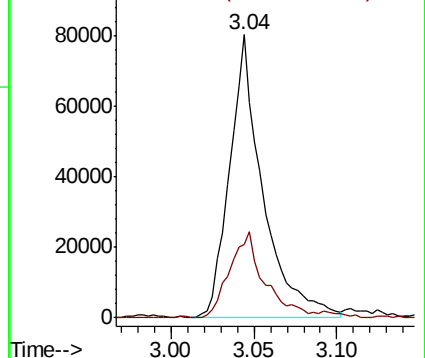
Ion Ratio Lower Upper

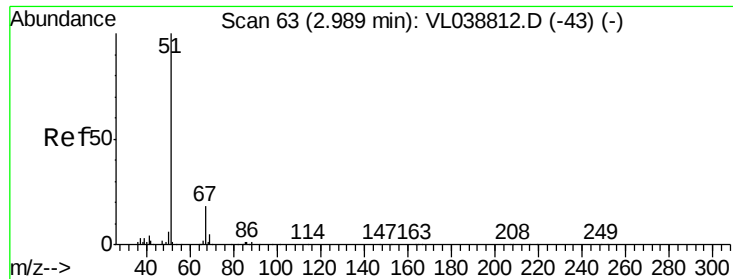
85 100

87 25.9 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.473 ppbv m

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Apr 2022 8:41

Tot Ion:

Ion Ratio

51 100

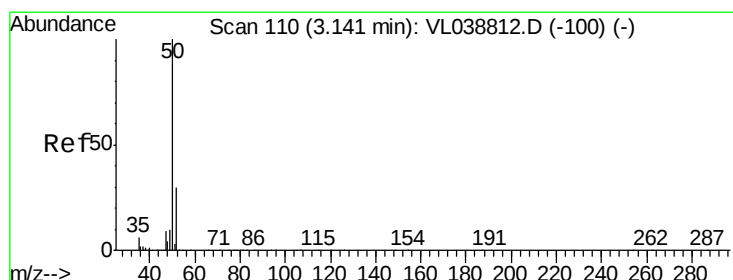
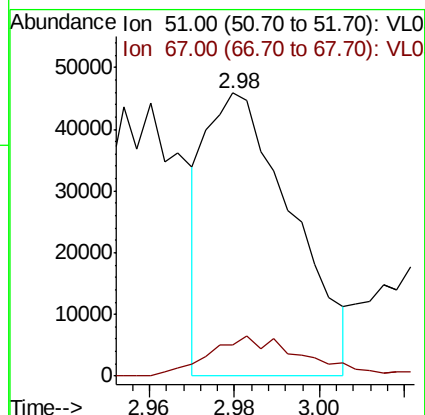
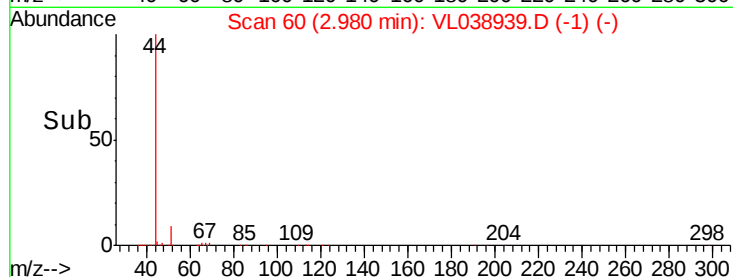
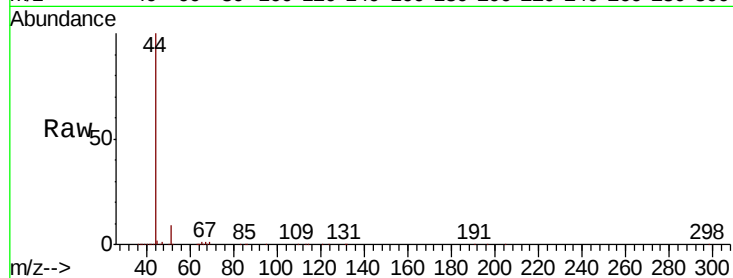
67 17.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#4

Chloromethane

Concen: 0.638 ppbv m

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038939.D

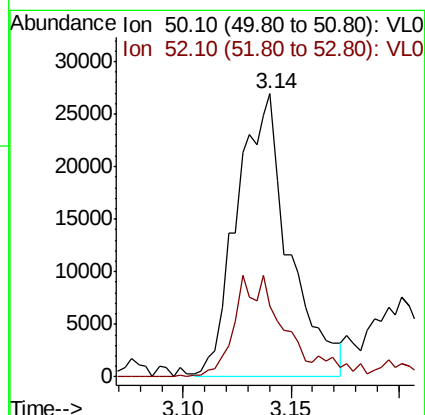
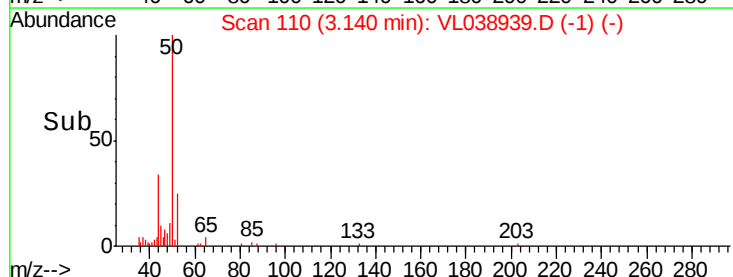
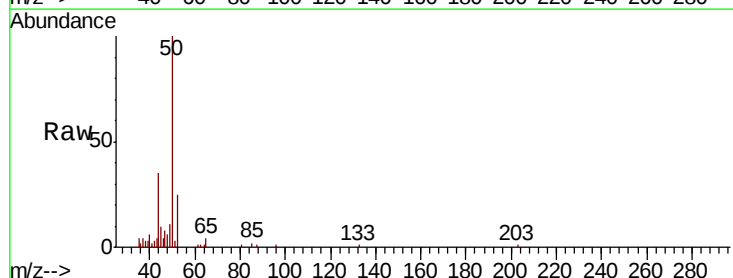
Acq: 15 Apr 2022 8:41

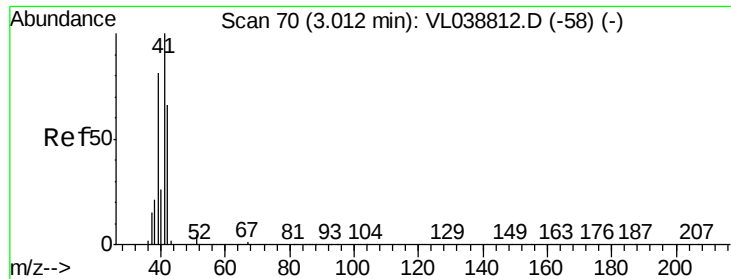
Tgt Ion: 50 Resp: 45332

Ion Ratio Lower Upper

50 100

52 25.0 24.3 36.5





#9

Propene

Concen: 2.718 ppbv m

RT: 3.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 8:41

Tot Ion:

Ion Ratio

41 100

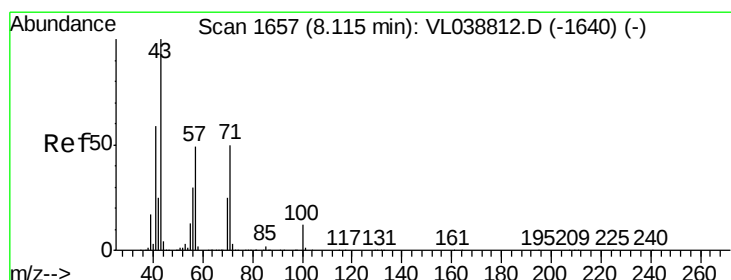
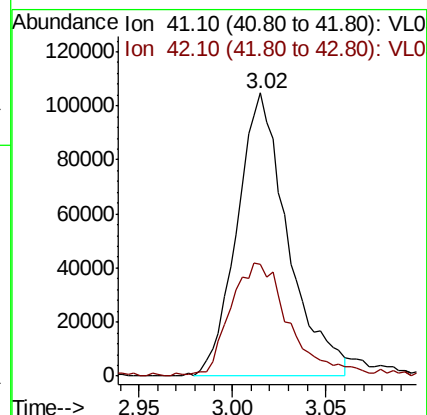
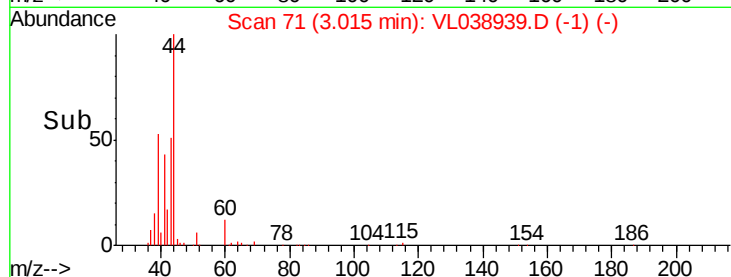
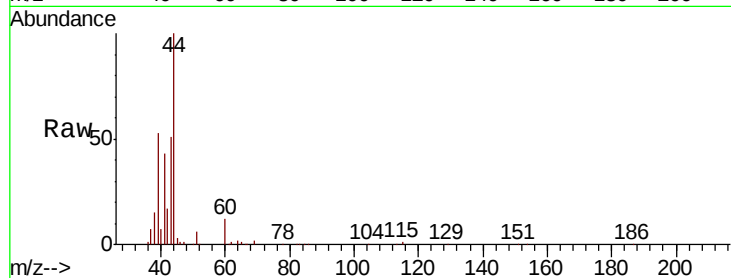
42 165.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#10

Heptane

Concen: 0.530 ppbv m

RT: 8.10 min Scan# 1651

Delta R.T. -0.02 min

Lab File: VL038939.D

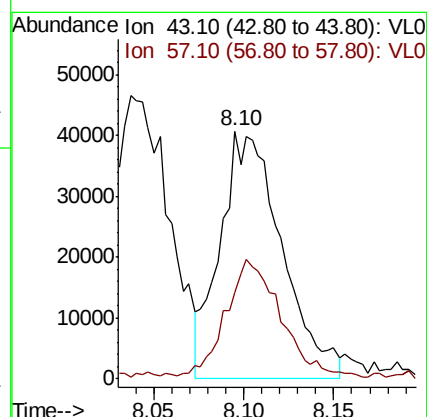
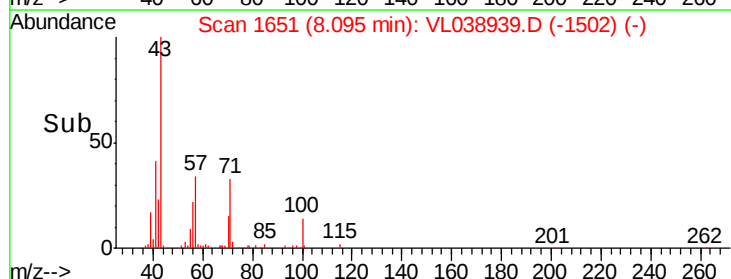
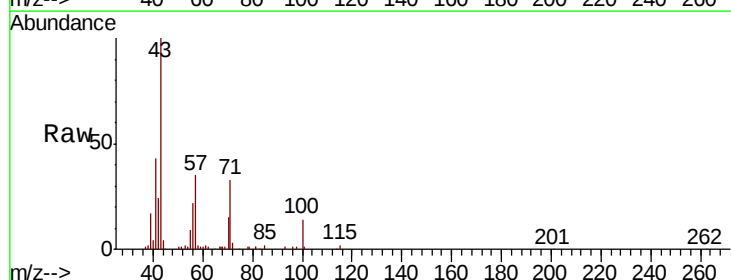
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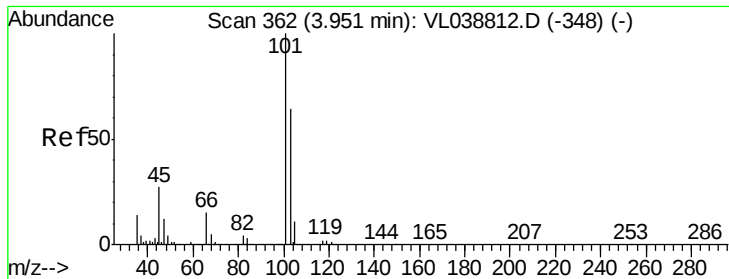
Tgt Ion: 43 Resp: 96930

Ion Ratio Lower Upper

43 100

57 0.0 39.3 58.9#



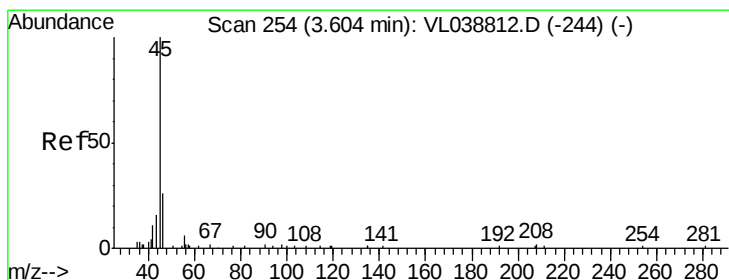
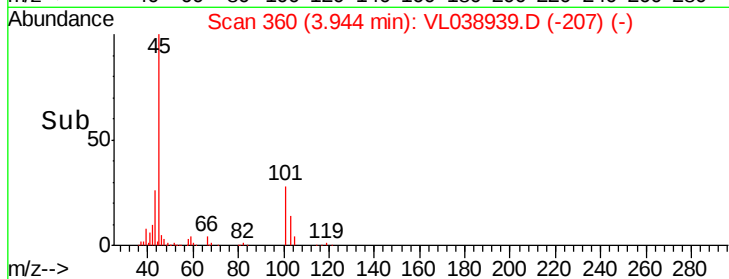
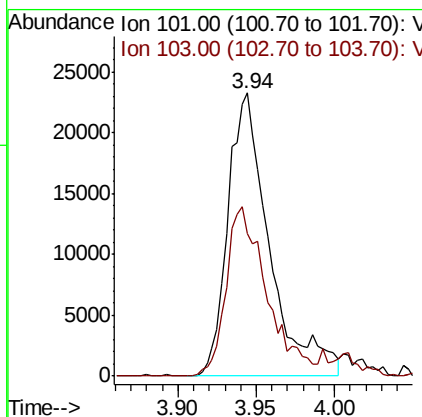
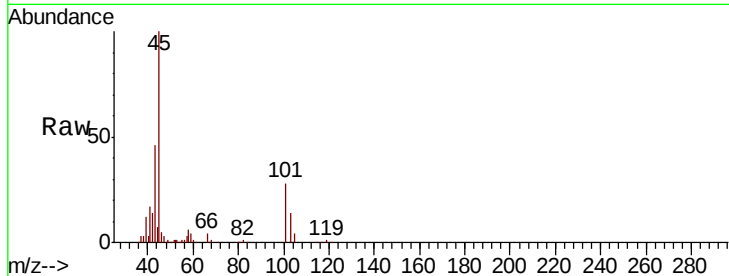


#11
 Trichlorofluoromethane
 Concen: 0.332 ppbv m
 RT: 3.94
 Instrument: MSVOA_L
 Delta R.T.
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 8:41

Tot Ion:1
 Ion Rati
 101 100
 103 50.

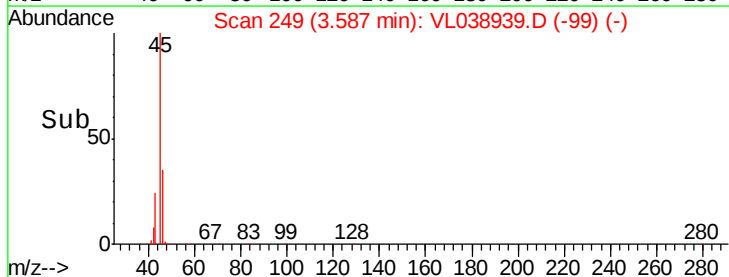
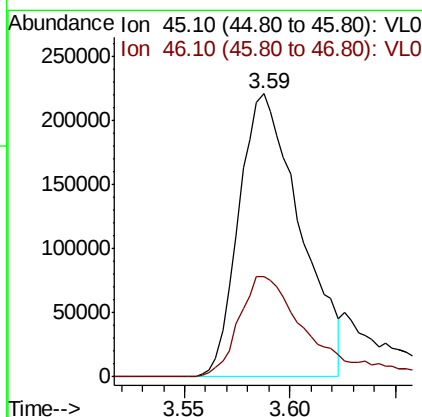
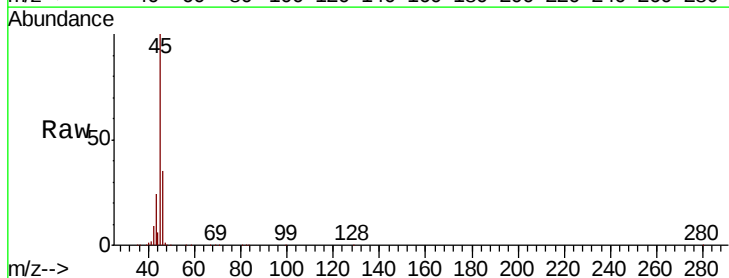
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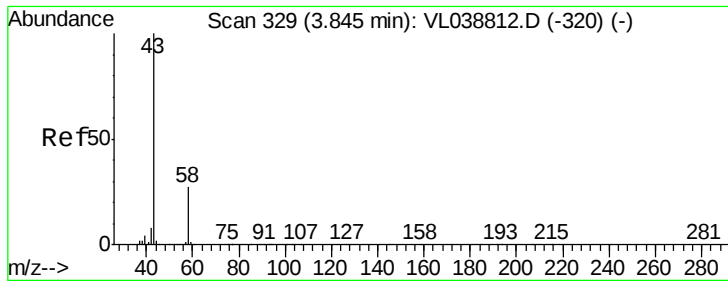
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#13
 Ethanol
 Concen: 100.999 ppbv
 RT: 3.59 min Scan# 249
 Delta R.T. -0.02 min
 Lab File: VL038939.D
 Acq: 15 Apr 2022 8:41

Tgt Ion: 45 Resp: 445913
 Ion Ratio Lower Upper
 45 100
 46 44.0 0.0 0.0#



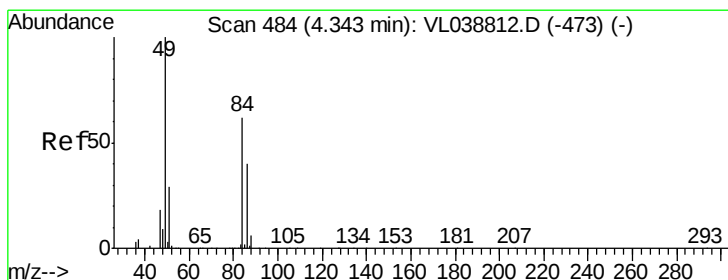
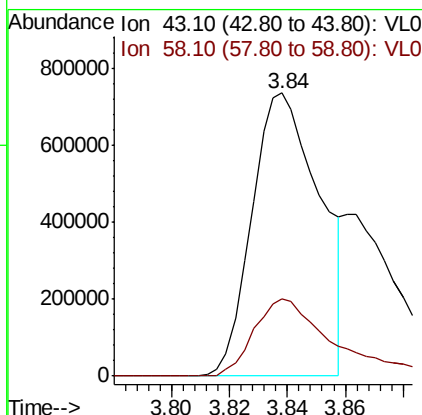
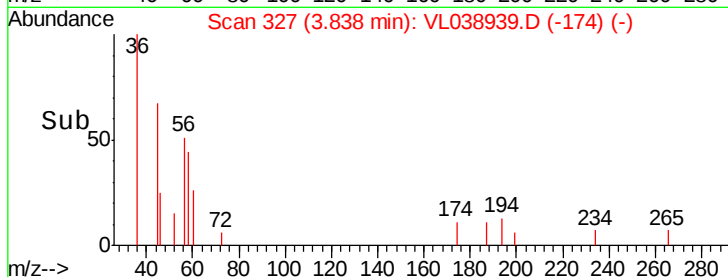
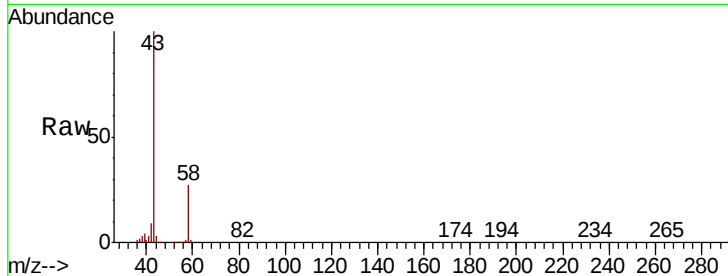


#15
Acetone
Concen: 10.696 ppbv
RT: 3.84
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 15 Apr 2022 8:41

Tot Ion:
Ion Ratio
43 100
58 35.

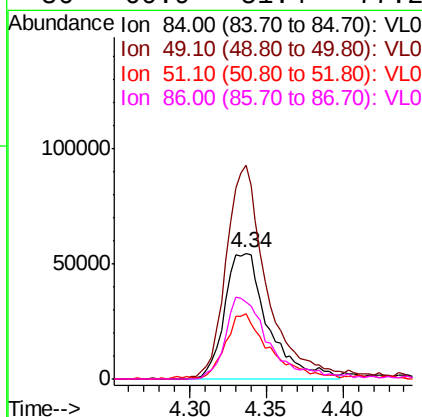
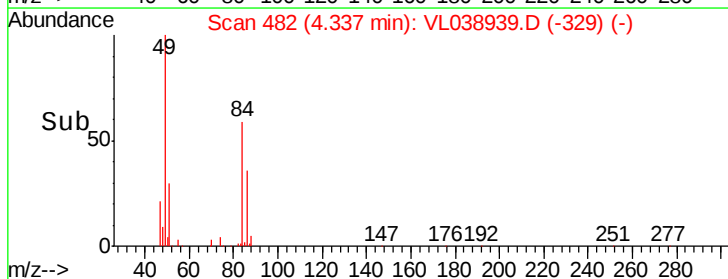
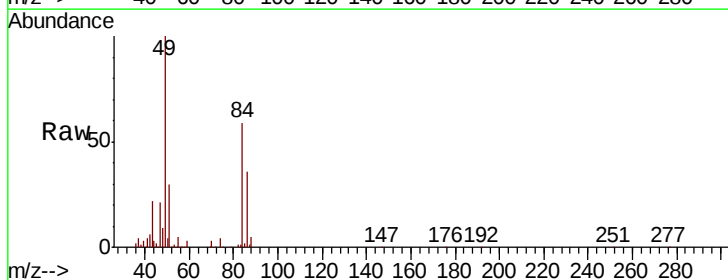
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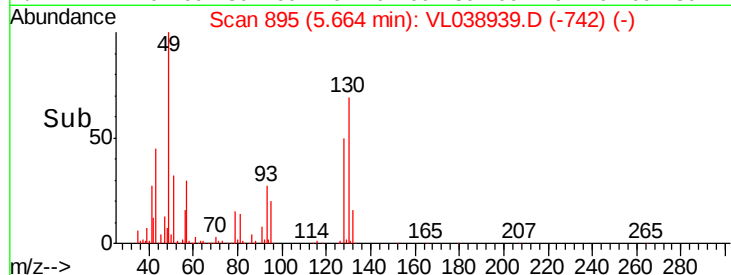
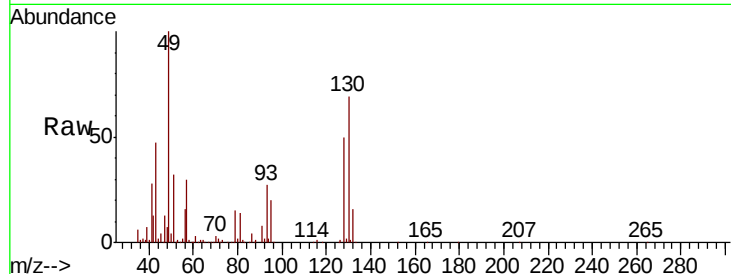
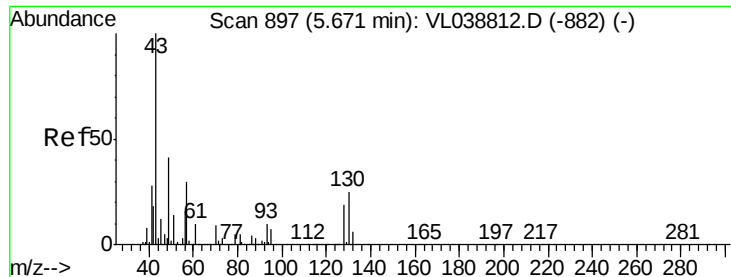
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#20
Methylene Chloride
Concen: 2.662 ppbv m
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL038939.D
Acq: 15 Apr 2022 8:41

Tgt Ion: 84 Resp: 108138
Ion Ratio Lower Upper
84 100
49 169.5 129.4 194.0
51 51.3 37.4 56.2
86 60.9 51.4 77.2



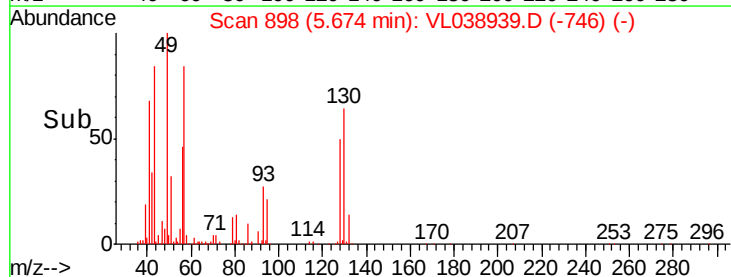
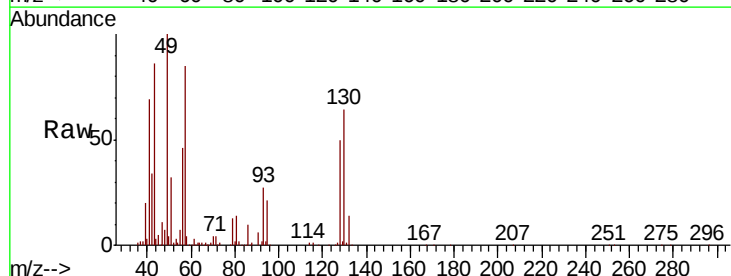
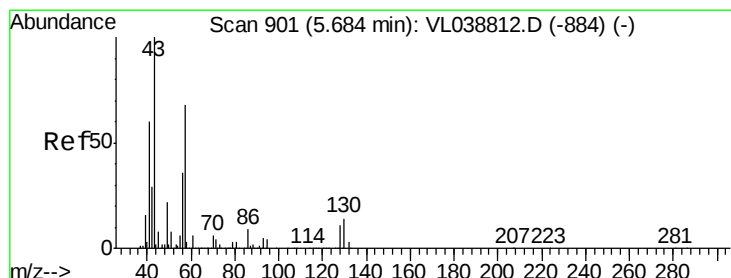
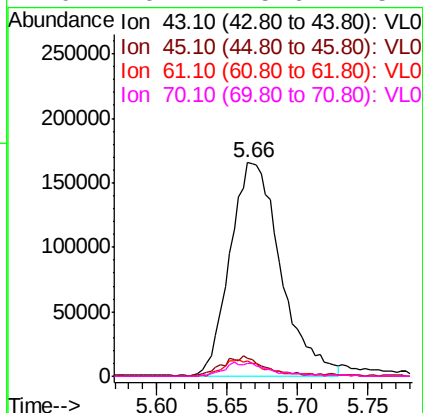


#25
Ethyl Acetate
Concen: 1.456 ppbv
RT: 5.66
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 8:41

Tot Ion:
Ion Ratio
43 100
45 8.
61 7.
70 6.2 5.6 8.4

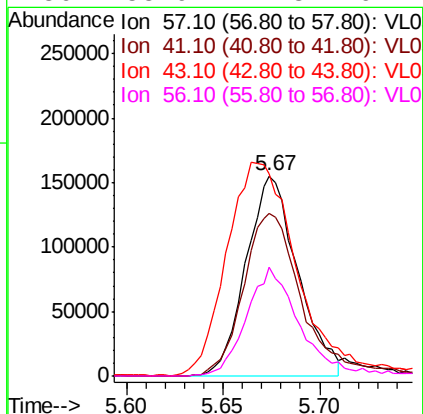
Manual Integrations
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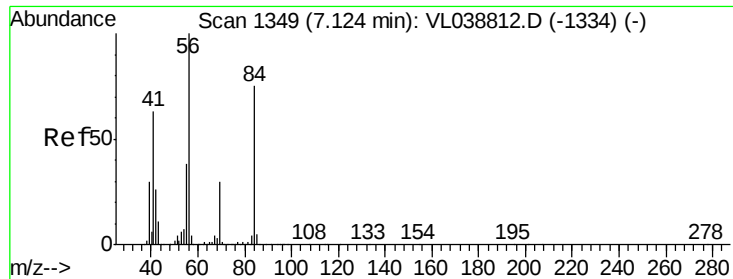
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#26
Hexane
Concen: 2.231 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL038939.D
Acq: 15 Apr 2022 8:41

Tgt Ion: 57 Resp: 288571
Ion Ratio Lower Upper
57 100
41 94.1 72.0 108.0
43 149.5 186.6 280.0#
56 55.9 42.8 64.2



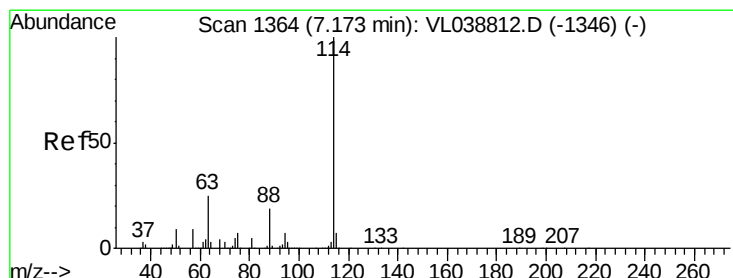
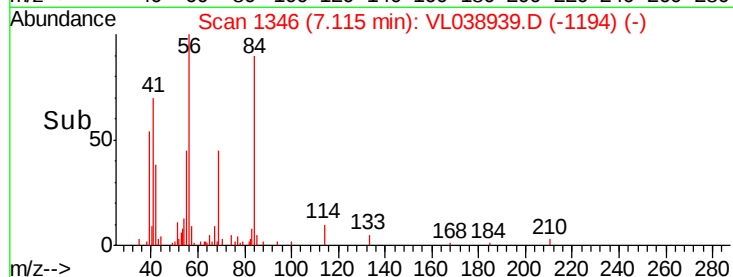
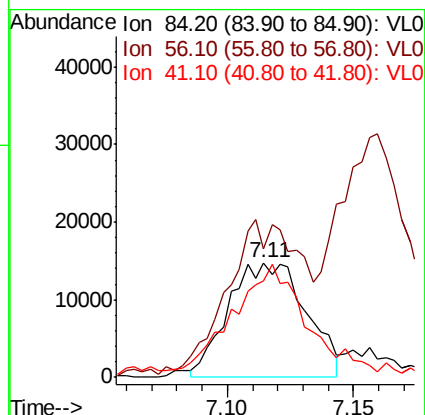
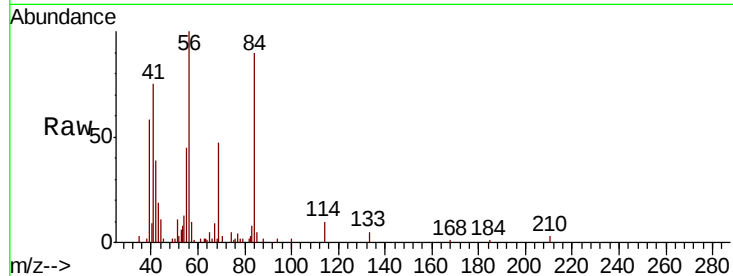


#30
Cvclohexane
Concen: 0.278 ppbv m
RT: 7.11 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Apr 2022 8:41

Tot Ion:
Ion Ratio
84 100
56 0.
41 0.

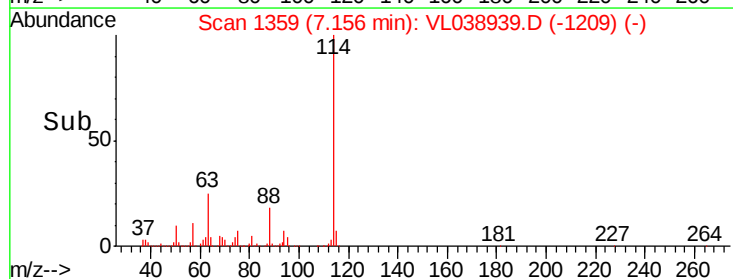
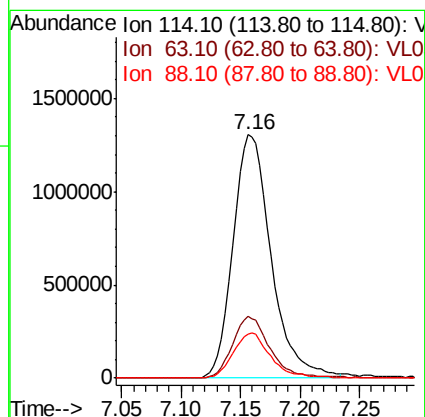
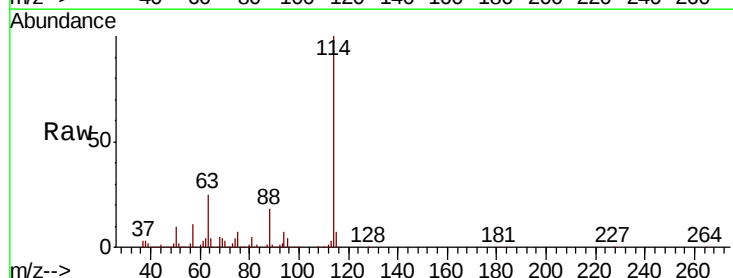
Manual Integrations
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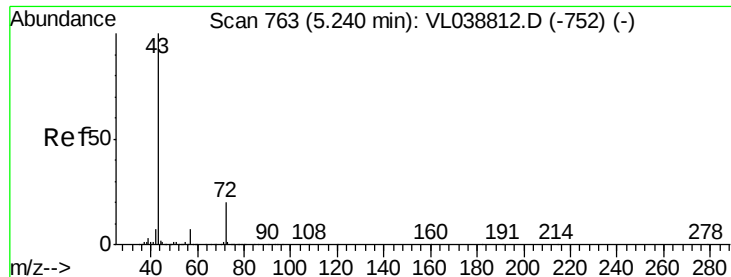
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL038939.D
Acq: 15 Apr 2022 8:41

Tgt Ion:114 Resp: 2904039
Ion Ratio Lower Upper
114 100
63 25.2 19.8 29.8
88 18.5 14.2 21.4



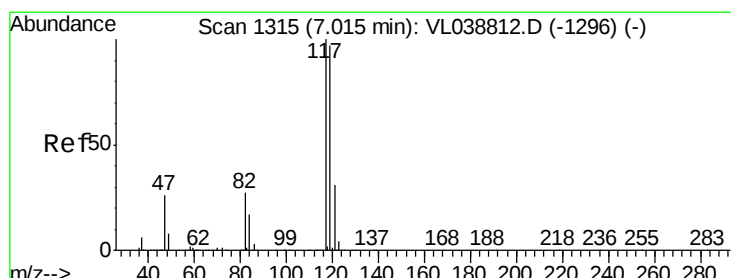
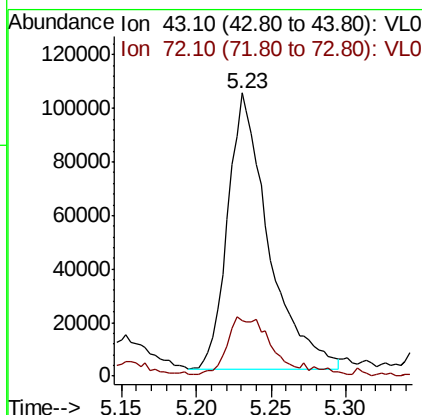
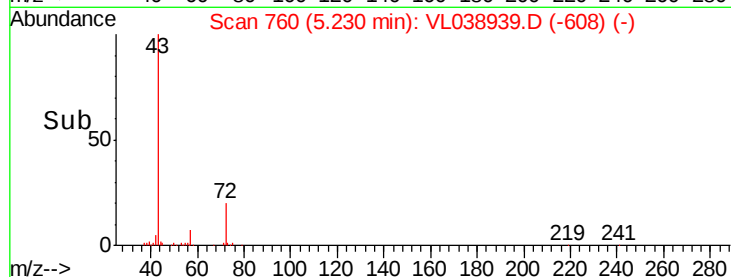
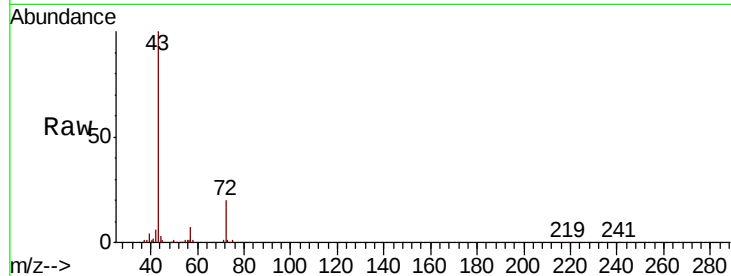


#34
2-Butanone
Concen: 1.715 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 8:41

Tot Ion:
Ion Ratio
43 100
72 25.

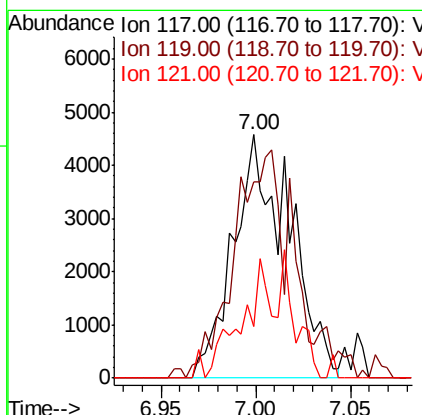
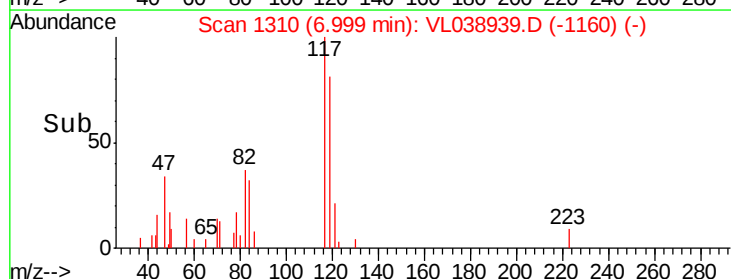
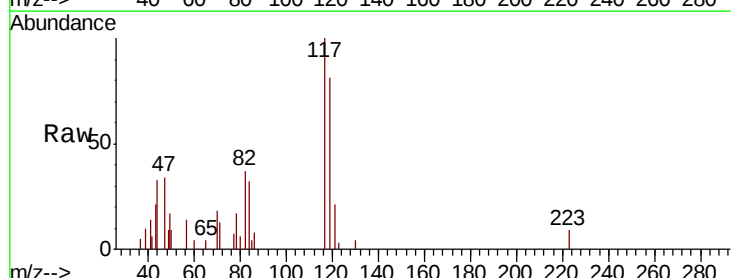
Manual Integrations
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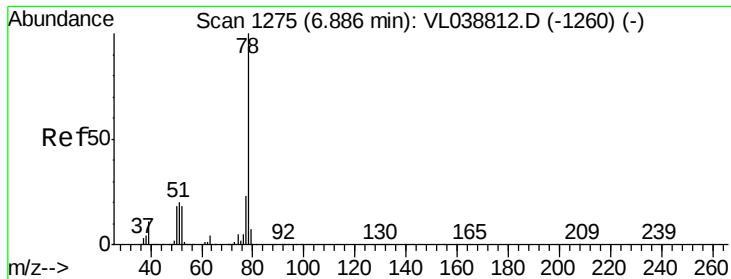
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#35
Carbon Tetrachloride
Concen: 0.054 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL038939.D
Acq: 15 Apr 2022 8:41

Tgt Ion:117 Resp: 9450
Ion Ratio Lower Upper
117 100
119 80.7 77.7 116.5
121 21.2 24.5 36.7#



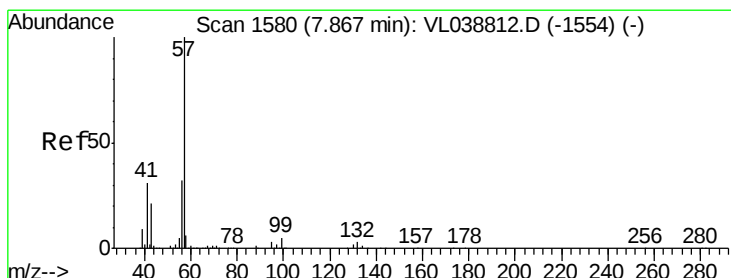
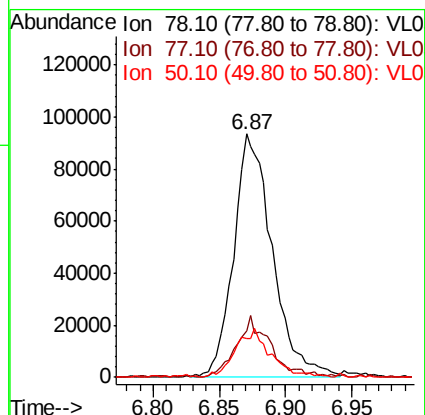
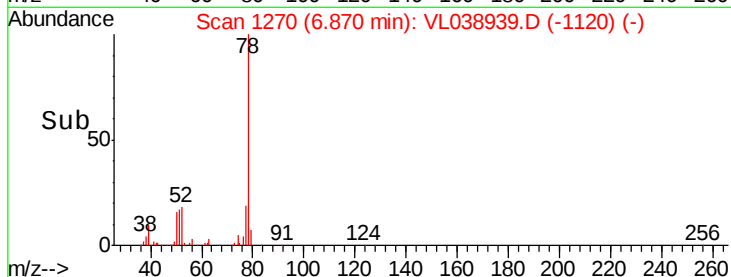
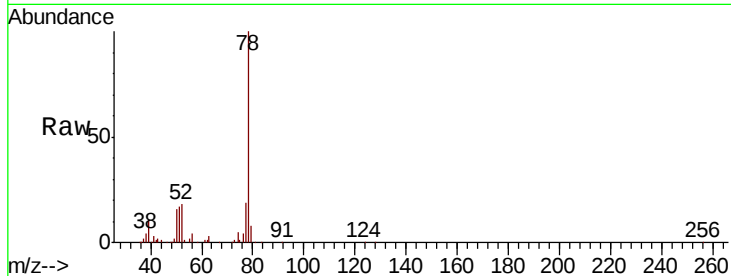


#36
Benzene
Concen: 0.711 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Apr 2022 8:41

Tot Ion:
Ion Ratio
78 100
77 18.
50 15.

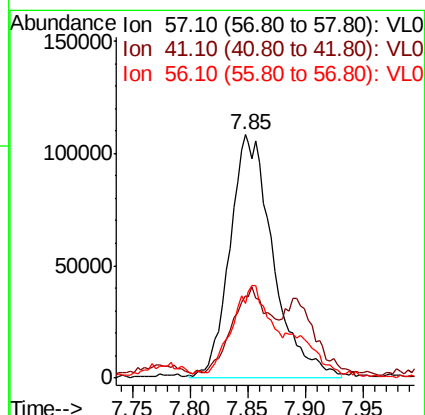
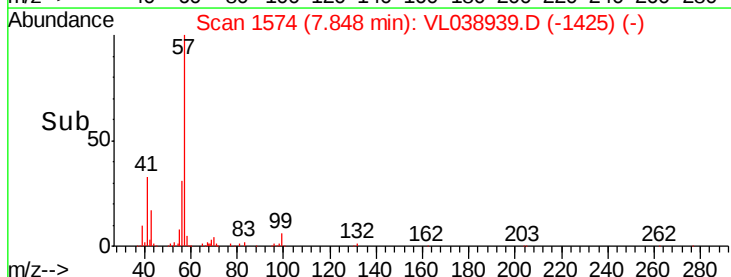
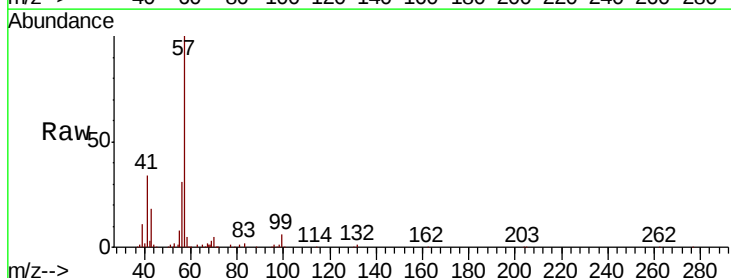
Manual Integrations
APPROVED

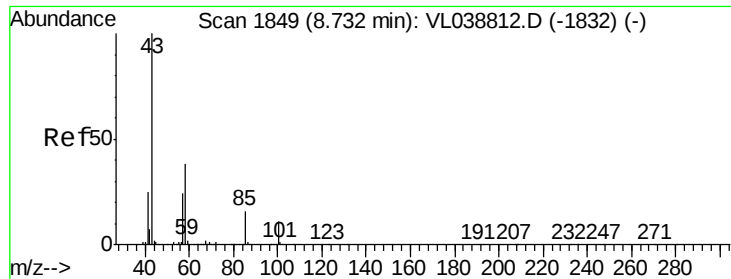
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#44
2,2,4-Trimethylpentane
Concen: 0.631 ppbv m
RT: 7.85 min Scan# 1574
Delta R.T. -0.02 min
Lab File: VL038939.D
Acq: 15 Apr 2022 8:41

Tgt Ion: 57 Resp: 282034
Ion Ratio Lower Upper
57 100
41 35.6 25.0 37.4
56 49.7 25.3 37.9#



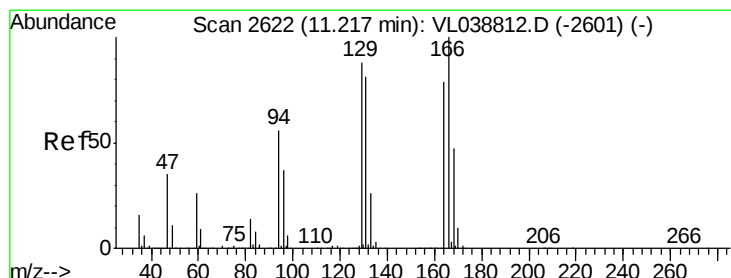
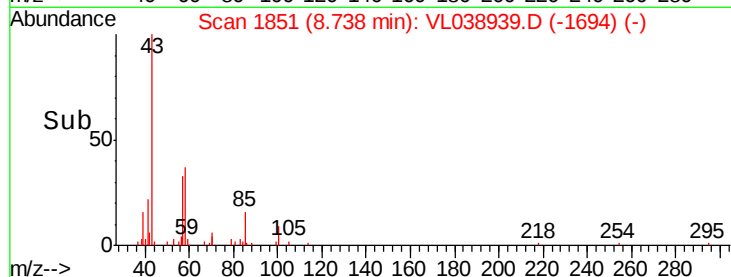
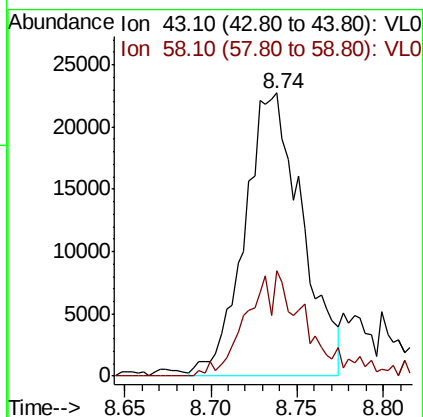
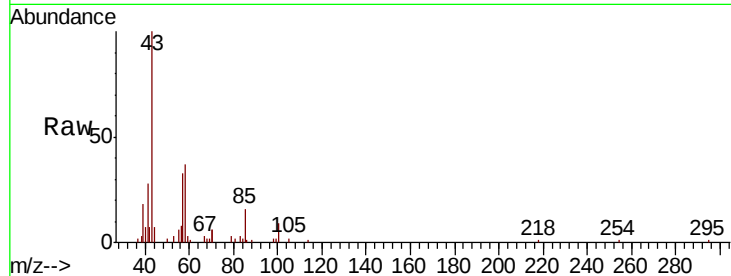


#50
 4-Methyl-2-Pentanone
 Concen: 0.204 ppbv m
 RT: 8.74
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 8:41

Tot Ion:
 Ion Ratio
 43 100
 58 0.

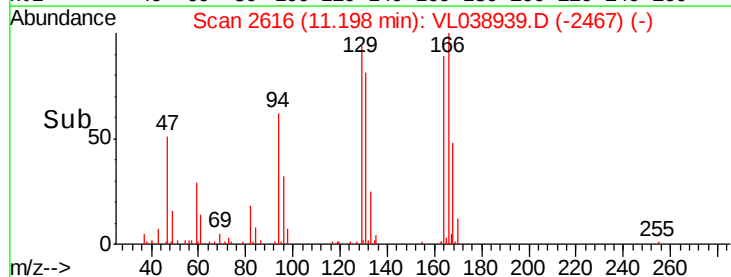
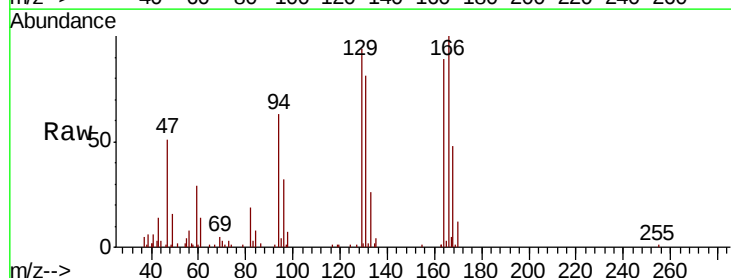
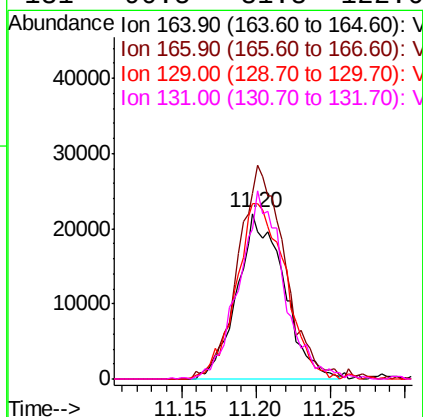
Manual Integrations
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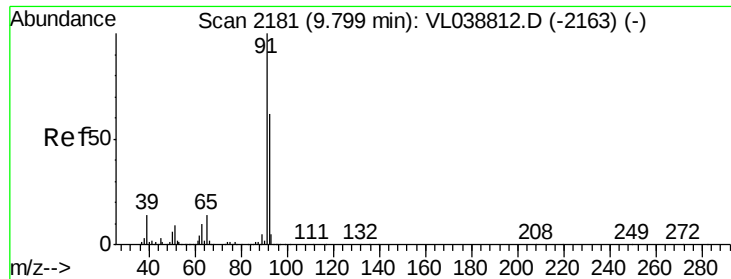
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#52
 Tetrachloroethene
 Concen: 0.521 ppbv m
 RT: 11.20 min Scan# 2616
 Delta R.T. -0.02 min
 Lab File: VL038939.D
 Acq: 15 Apr 2022 8:41

Tgt Ion:164 Resp: 48111
 Ion Ratio Lower Upper
 164 100
 166 112.4 101.0 151.6
 129 106.2 88.7 133.1
 131 90.5 81.8 122.6





#53

Toluene

Concen: 6.696 ppbv

RT: 9.79 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Apr 2022 8:41

Tot Ion:

Ion Ratio

91 100

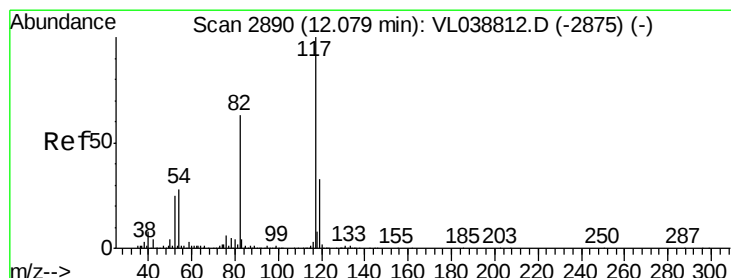
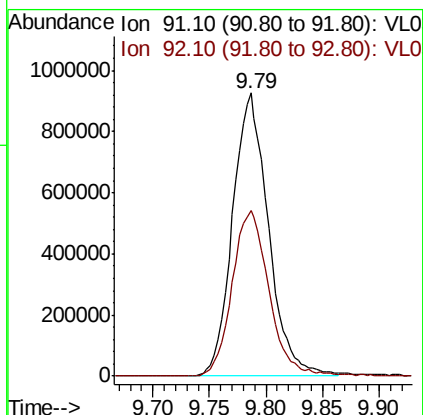
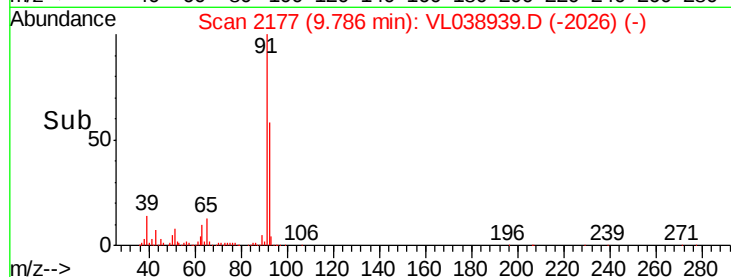
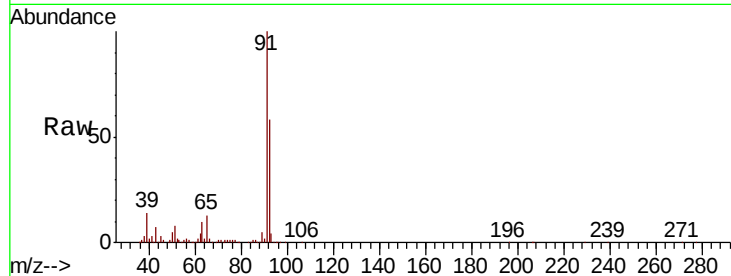
92 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022

Supervised By :Mahesh Dadoda 04/18/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL038939.D

Acq: 15 Apr 2022 8:41

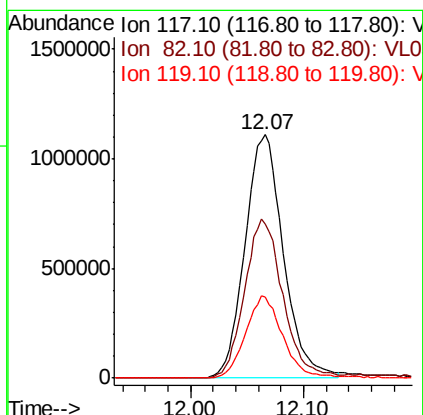
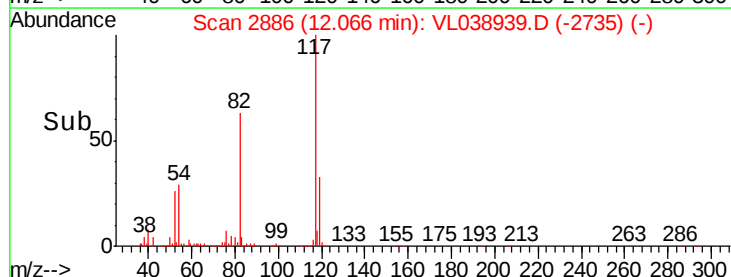
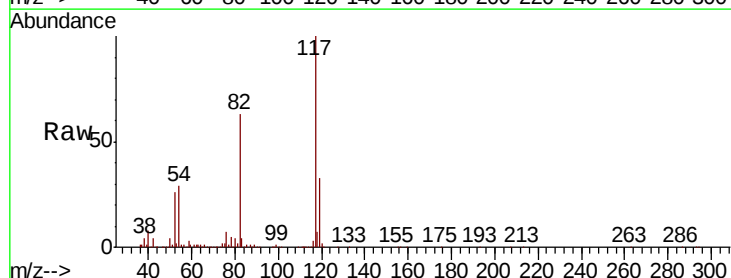
Tgt Ion:117 Resp: 2623768

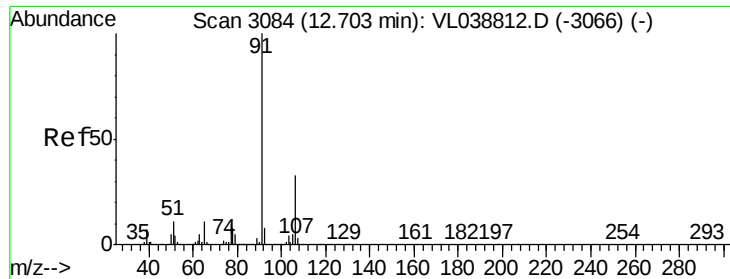
Ion Ratio Lower Upper

117 100

82 67.5 53.0 79.6

119 33.0 24.9 37.3



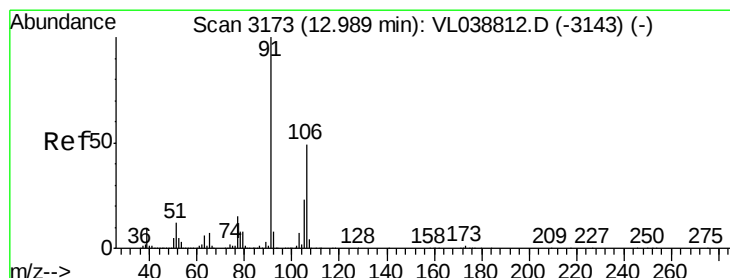
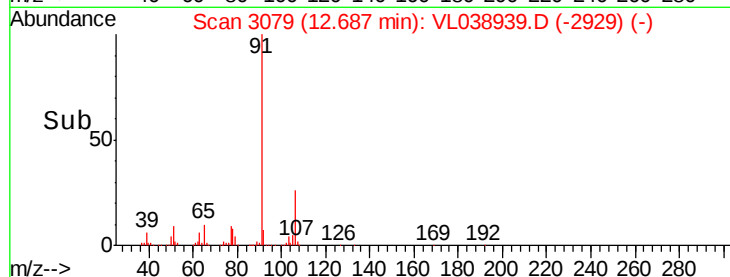
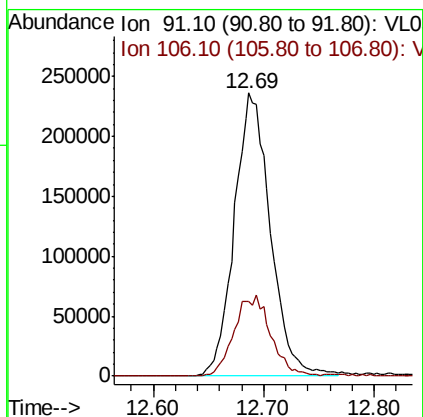
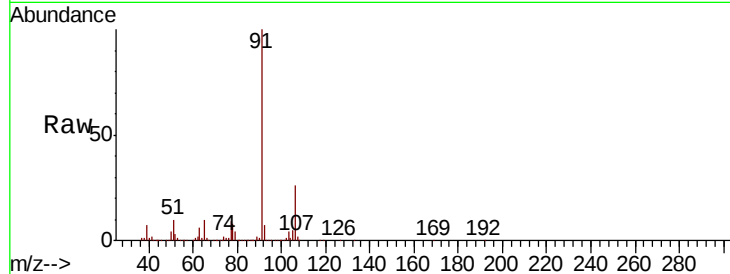


#58
Ethyl Benzene
Concen: 1.368 ppbv
RT: 12.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 15 Apr 2022 8:41

Tot Ion:
Ion Ratio
91 100
106 26.

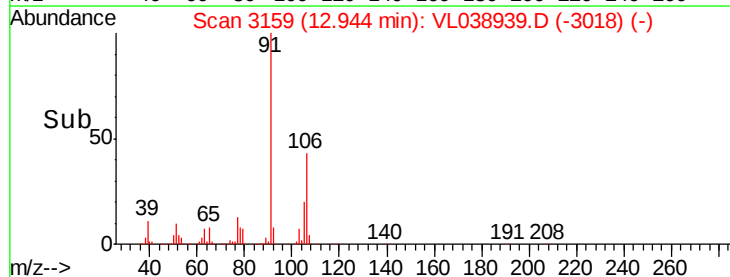
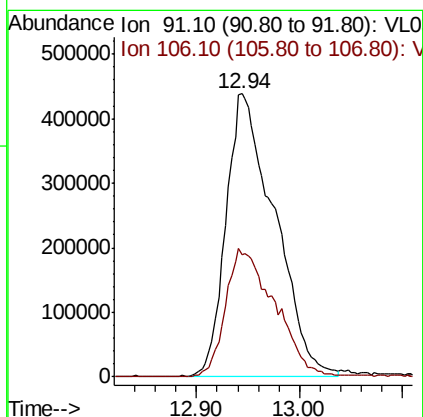
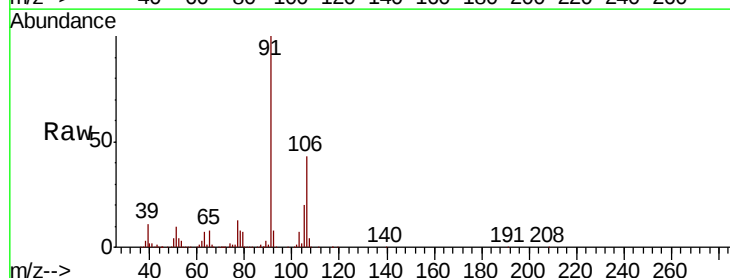
Manual Integrations
APPROVED

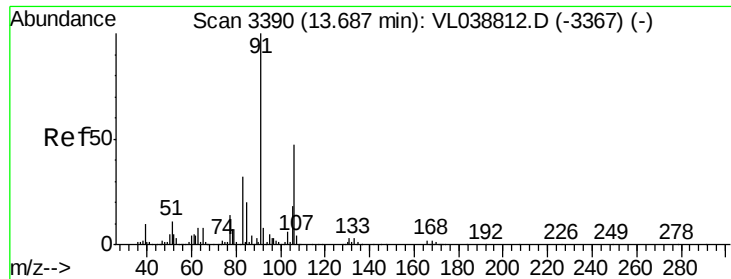
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#59
m/p-Xylene
Concen: 4.344 ppbv
RT: 12.94 min Scan# 3159
Delta R.T. -0.05 min
Lab File: VL038939.D
Acq: 15 Apr 2022 8:41

Tgt Ion: 91 Resp: 1430710
Ion Ratio Lower Upper
91 100
106 46.2 37.1 55.7



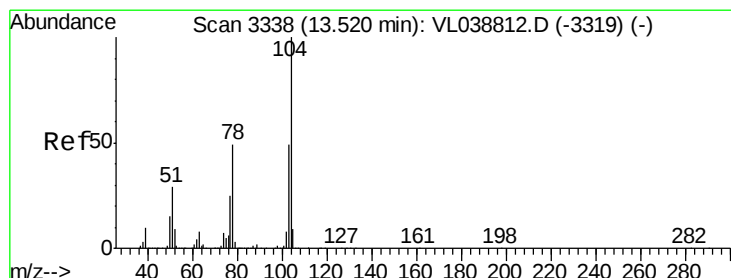
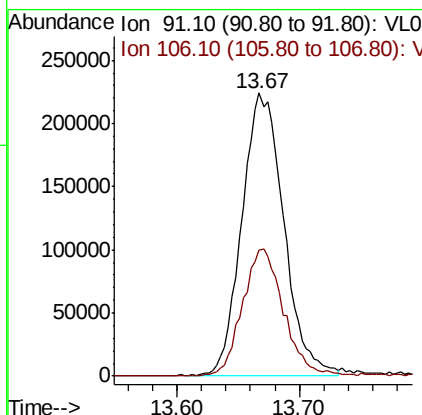
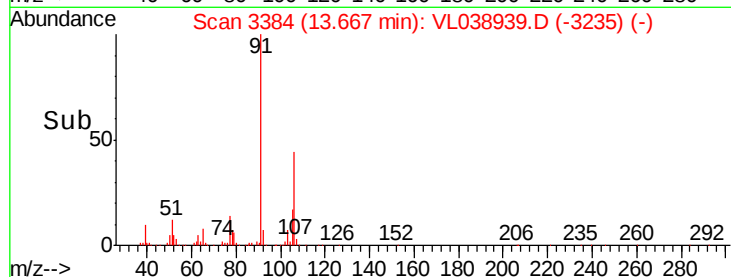
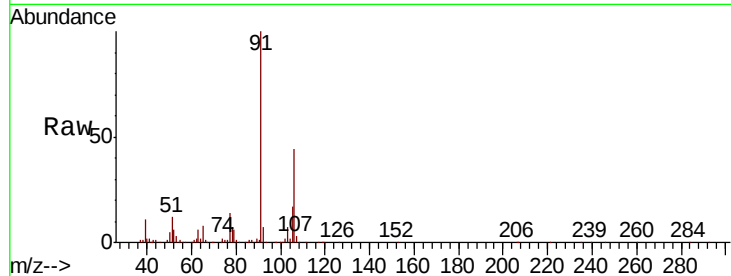


#60
o-Xylene
Concen: 1.725 ppbv
RT: 13.67
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 15 Apr 2022 8:41

Tot Ion:
Ion Ratio
91 100
106 44.

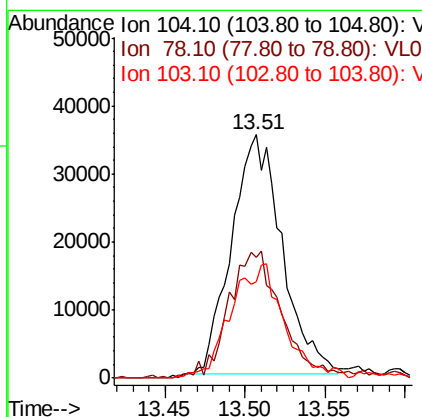
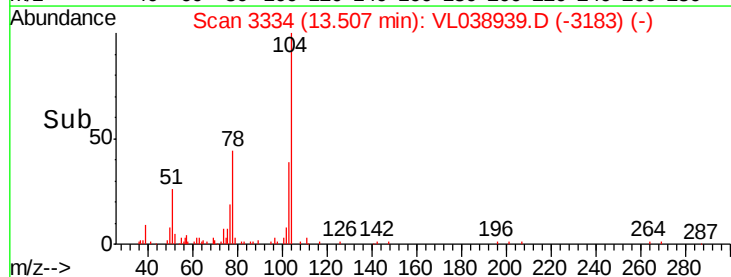
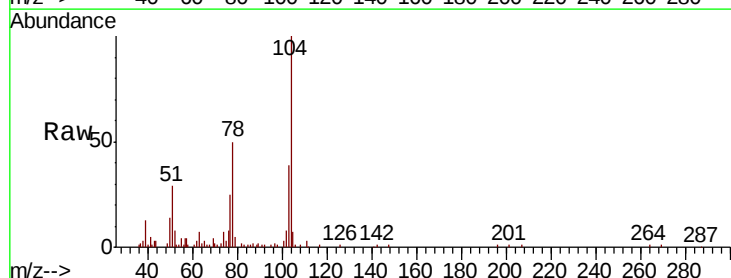
Manual Integrations
APPROVED

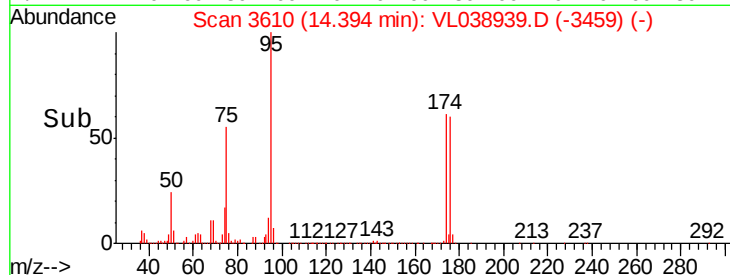
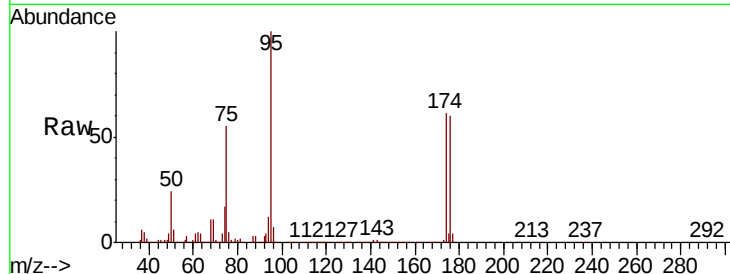
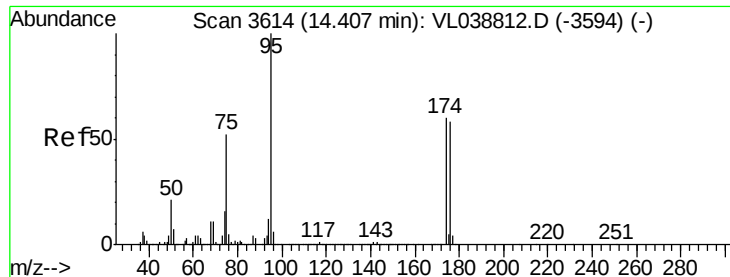
Reviewed By :Semsettin Yesilyurt 04/15/2022
Supervised By :Mahesh Dadoda 04/18/2022



#61
Styrene
Concen: 0.404 ppbv
RT: 13.51 min Scan# 3334
Delta R.T. -0.01 min
Lab File: VL038939.D
Acq: 15 Apr 2022 8:41

Tgt Ion:104 Resp: 75875
Ion Ratio Lower Upper
104 100
78 57.9 40.5 60.7
103 51.6 39.0 58.4



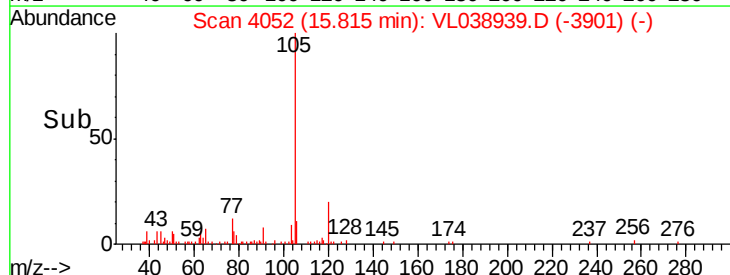
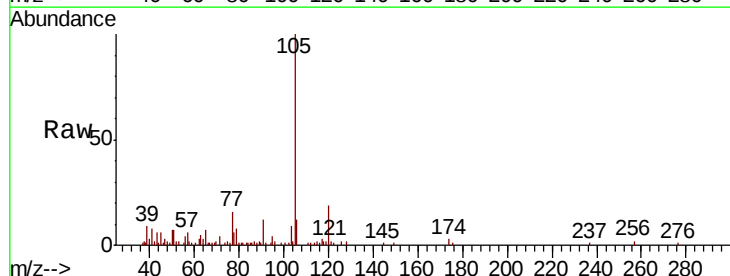
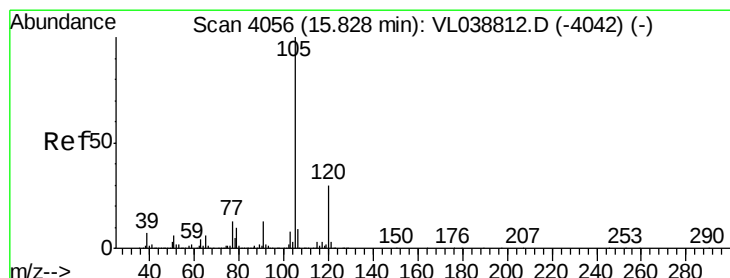
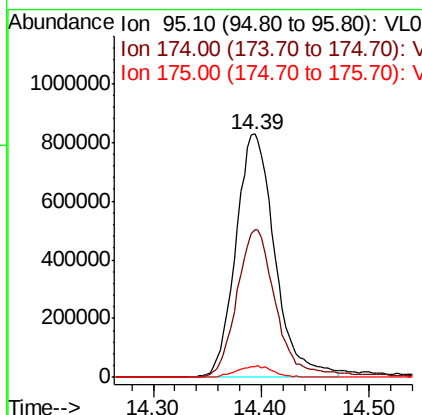


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.475 ppbv
 RT: 14.39 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 8:41

Tot Ion:
 Ion Ratio
 95 100
 174 62.
 175 4.

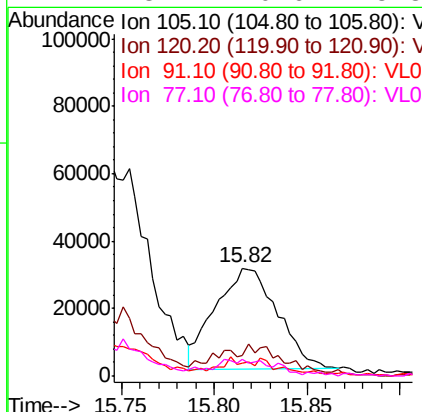
Manual Integrations
 APPROVED

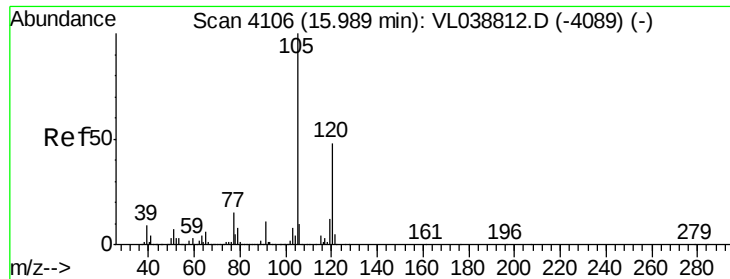
Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#72
 4-Ethyltoluene
 Concen: 0.189 ppbv
 RT: 15.82 min Scan# 4052
 Delta R.T. -0.01 min
 Lab File: VL038939.D
 Acq: 15 Apr 2022 8:41

Tgt Ion:105 Resp: 69711
 Ion Ratio Lower Upper
 105 100
 120 34.9 24.3 36.5
 91 14.8 9.4 14.2#
 77 18.7 10.6 15.8#



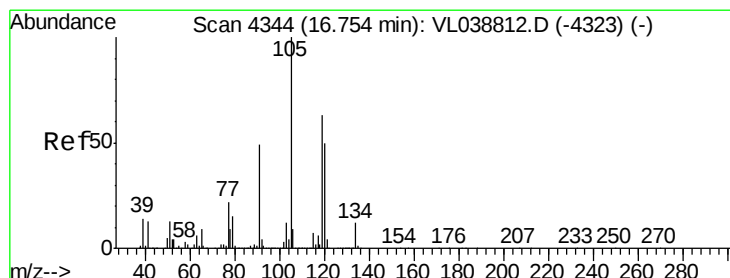
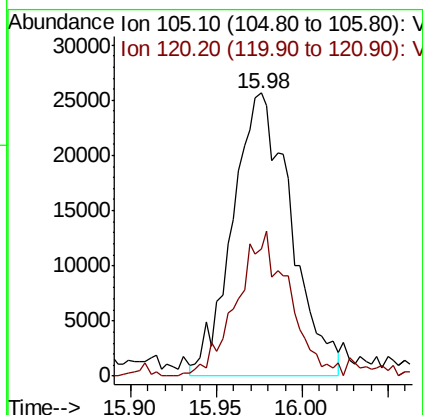
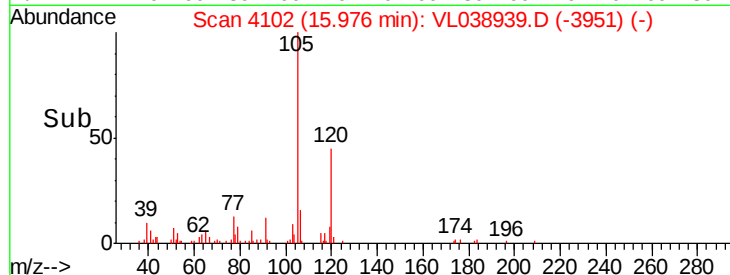
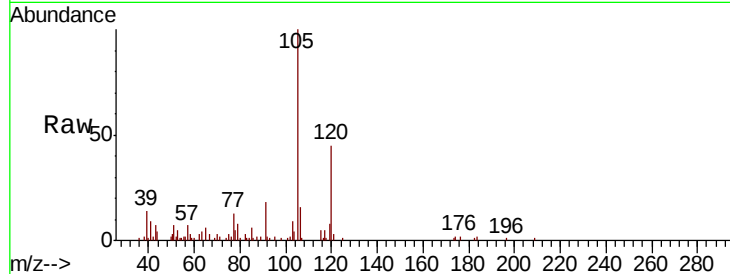


#73
 1,3,5-Trimethylbenzene
 Concen: 0.184 ppbv m
 RT: 15.98
 Instrument: MSVOA_L
 Delta R.T.
 Lab File: ClientSampleId :
 Acq: 15 Apr 2022 8:41

Tot Ion:1
 Ion Rati
 105 100
 120 44.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/15/2022
 Supervised By :Mahesh Dadoda 04/18/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 0.606 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.01 min
 Lab File: VL038939.D
 Acq: 15 Apr 2022 8:41

Tgt Ion:105 Resp: 211818
 Ion Ratio Lower Upper
 105 100
 120 37.4 39.8 59.8#
 91 8.9 39.4 59.0#
 77 12.6 17.3 25.9#

