

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020322\
 Data File : VL038331.D
 Acq On : 3 Feb 2022 12:57
 Operator : SY/AP
 Sample : N1379-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2022
 Supervised By : Mahesh Dadoda 02/04/2022

Quant Time: Feb 04 09:04:33 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422A

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

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	836959	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2166830	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1871199	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1486764	10.47	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	79821	0.448	ppbv	97
3) Chlorodifluoromethane	2.99	51	113405m	0.681	ppbv	
4) Chloromethane	3.14	50	26177m	0.457	ppbv	
9) Propene	3.02	41	426222m	7.858	ppbv	
10) Heptane	8.11	43	42802	0.307	ppbv	96
11) Trichlorofluoromethane	3.95	101	29658	0.214	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	6046m	0.058	ppbv	
13) Ethanol	3.59	45	377431	64.821	ppbv	98
15) Acetone	3.85	43	180620	2.448	ppbv #	60
19) Isopropyl Alcohol	3.96	45	179603m	3.891	ppbv	
20) Methylene Chloride	4.34	84	15633	0.364	ppbv	91
26) Hexane	5.67	57	76967m	0.801	ppbv	
30) Cyclohexane	7.12	84	15930m	0.190	ppbv	
34) 2-Butanone	5.24	43	34510m	0.487	ppbv	
35) Carbon Tetrachloride	7.01	117	9367m	0.062	ppbv	
36) Benzene	6.88	78	164361	0.858	ppbv	98
44) 2,2,4-Trimethylpentane	7.85	57	129653m	0.384	ppbv	
52) Tetrachloroethene	11.20	164	2474	0.037	ppbv #	81
53) Toluene	9.79	91	279756	1.319	ppbv	98
58) Ethyl Benzene	12.69	91	57133	0.208	ppbv	93
59) m/p-Xylene	12.94	91	167533m	0.714	ppbv	
60) o-Xylene	13.67	91	60413	0.277	ppbv	98
73) 1,3,5-Trimethylbenzene	15.97	105	17422m	0.085	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	60007m	0.278	ppbv	
79) Naphthalene	22.18	128	10817m	0.107	ppbv	

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

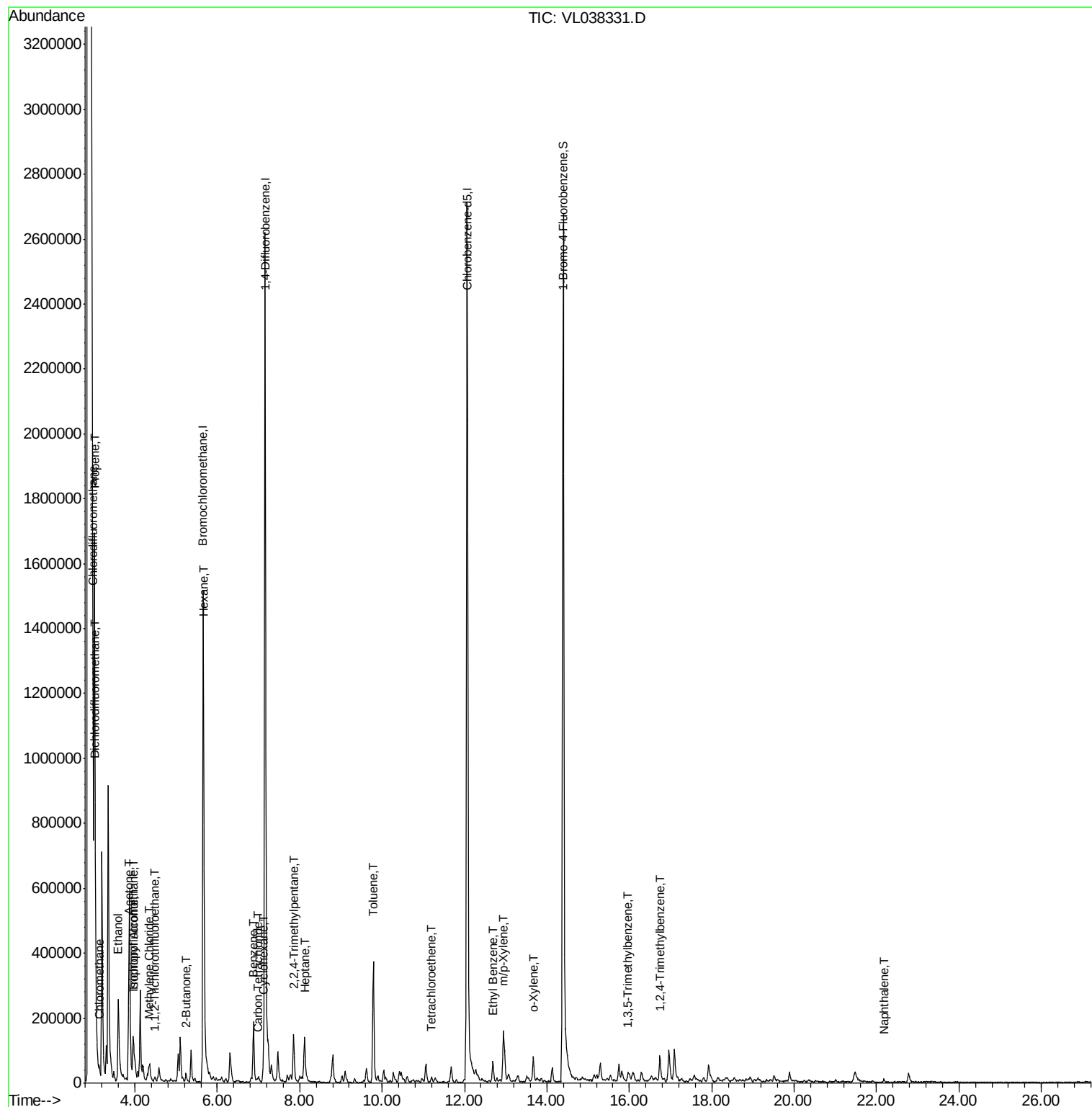
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL020322\
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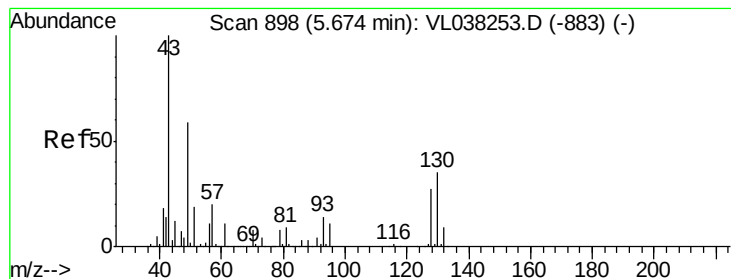
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Feb 04 09:04:33 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL012422
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Jan 24 14:12:48 2022
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APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 12:57

Tgt Ion:

Ion Ratio

49 100

128 47.

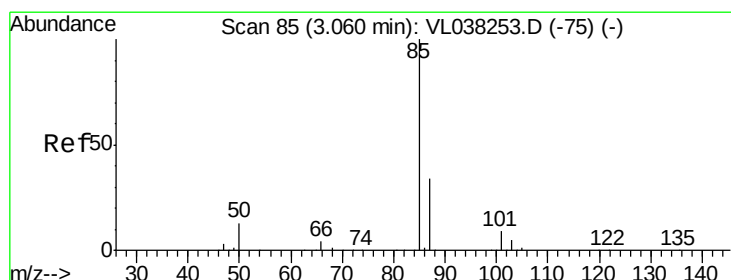
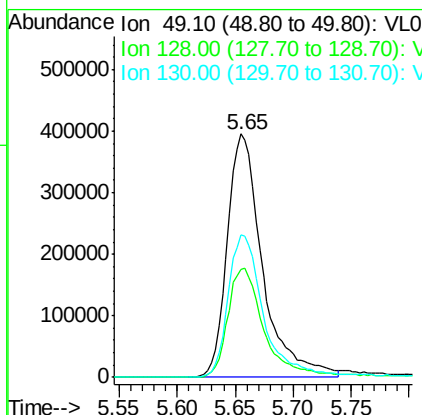
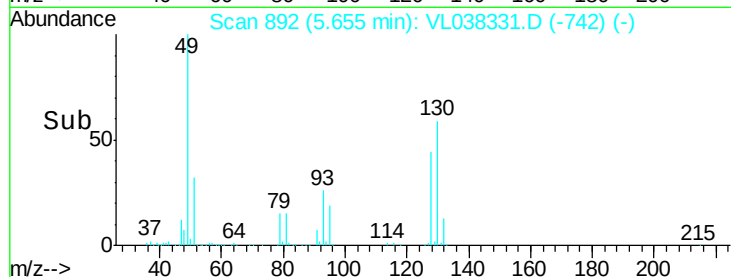
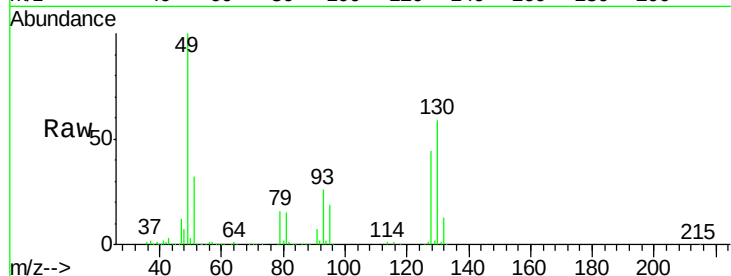
130 60.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#2

Dichlorodifluoromethane

Concen: 0.448 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.02 min

Lab File: VL038331.D

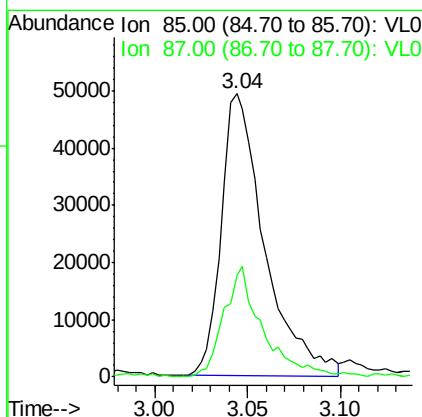
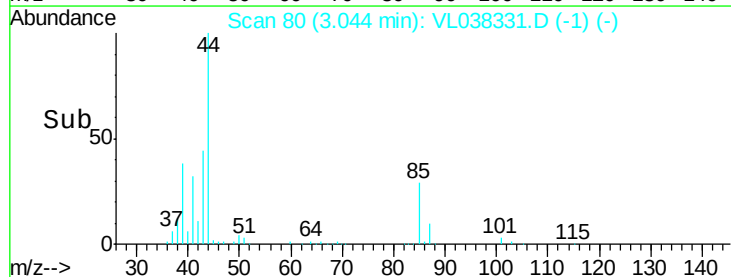
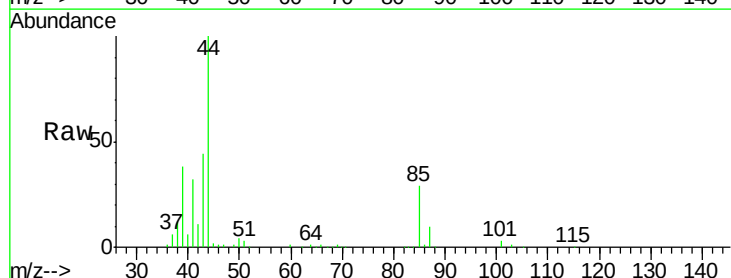
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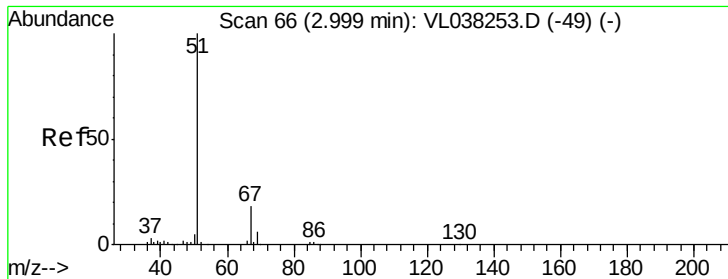
Tgt Ion: 85 Resp: 79821

Ion Ratio Lower Upper

85 100

87 35.7 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.681 ppbv m

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 12:57

Tgt Ion:

Ion Ratio

51 100

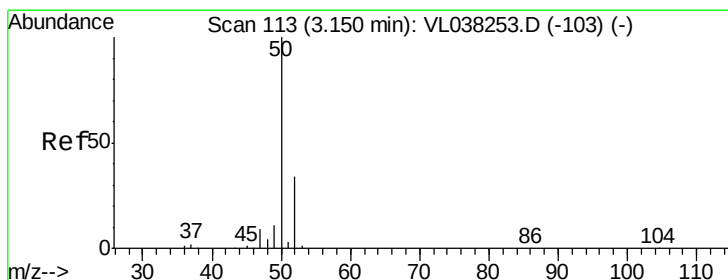
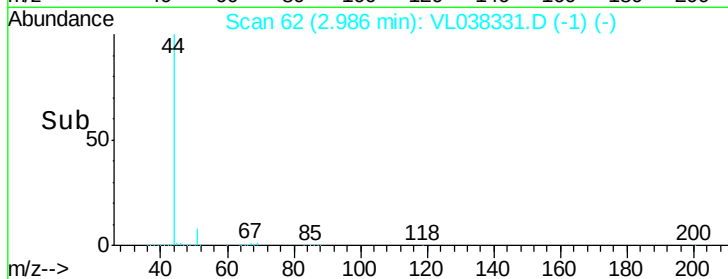
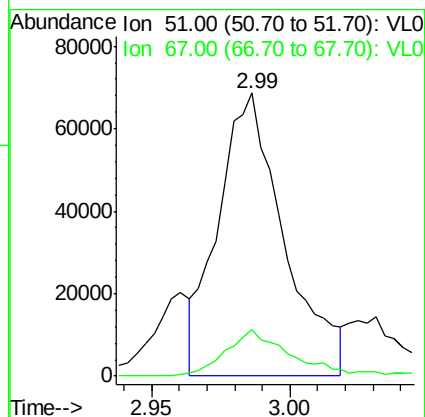
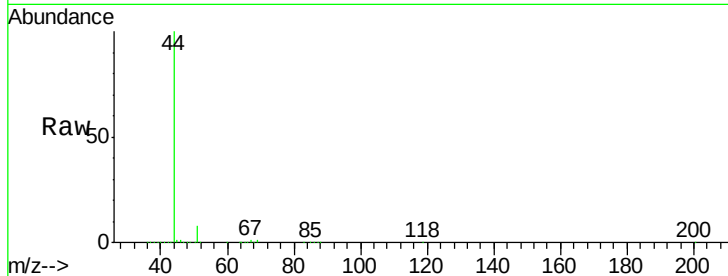
67 17.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#4

Chloromethane

Concen: 0.457 ppbv m

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL038331.D

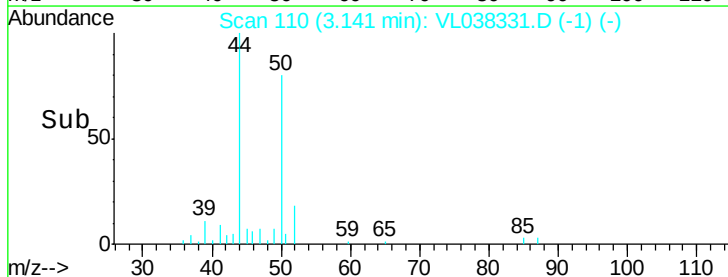
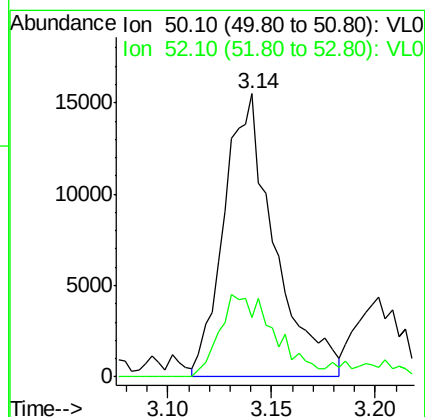
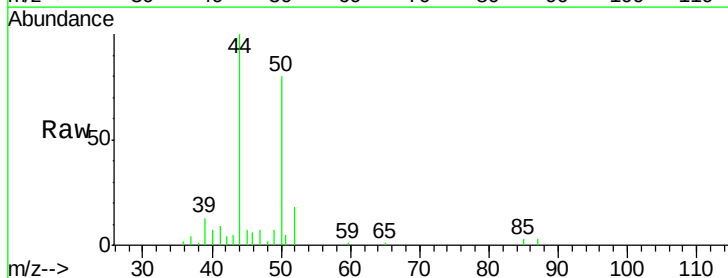
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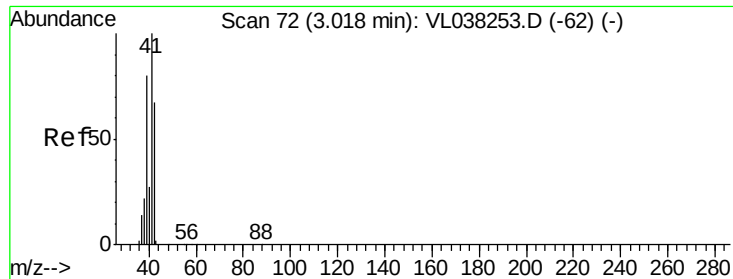
Tgt Ion: 50 Resp: 26177

Ion Ratio Lower Upper

50 100

52 22.1 27.1 40.7#





#9

Propene

Concen: 7.858 ppbv m

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 12:57

Tgt Ion:

Ion Ratio

41 100

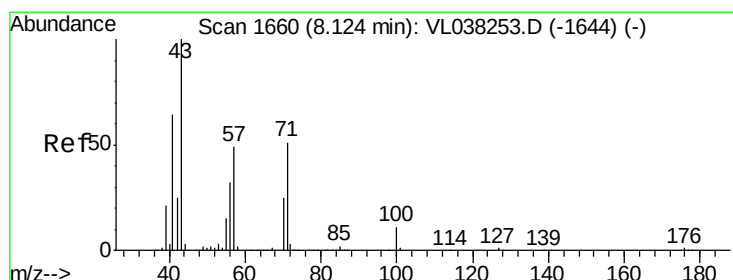
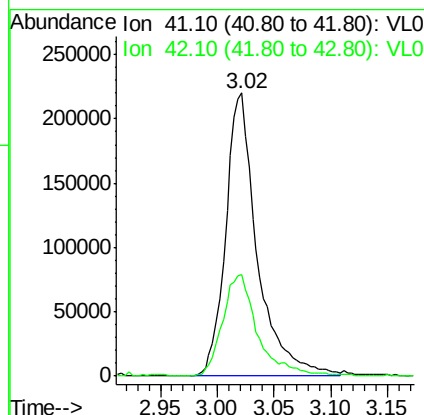
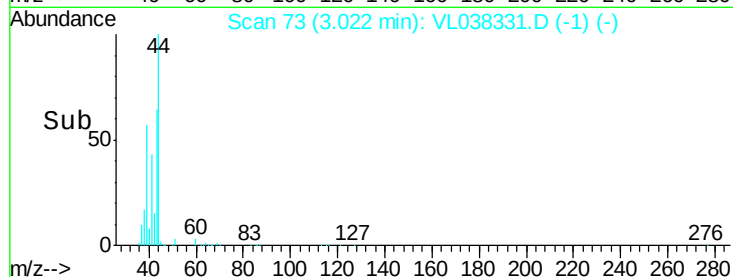
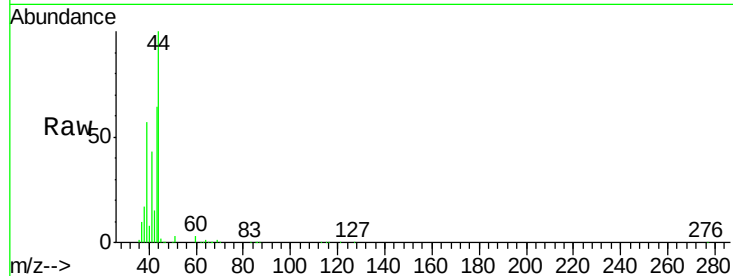
42 39.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#10

Heptane

Concen: 0.307 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.02 min

Lab File: VL038331.D

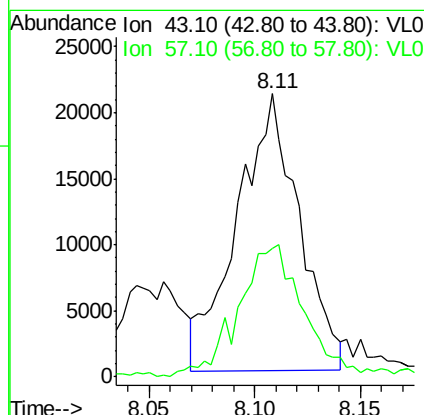
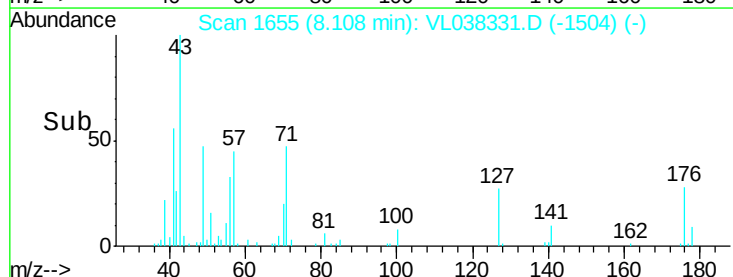
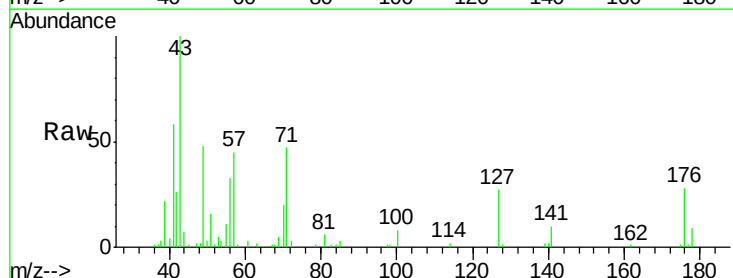
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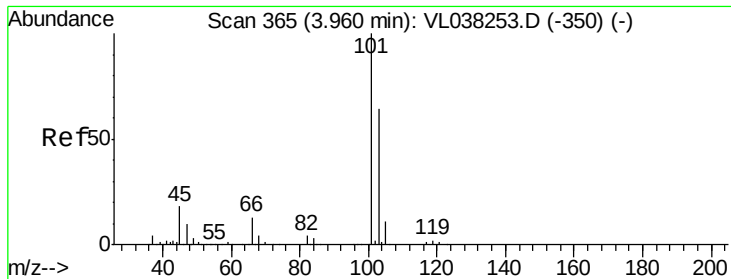
Tgt Ion: 43 Resp: 42802

Ion Ratio Lower Upper

43 100

57 52.2 39.5 59.3



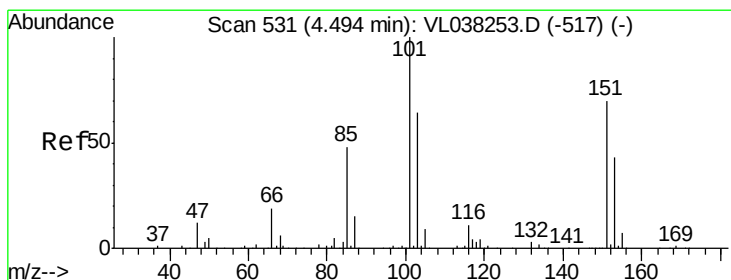
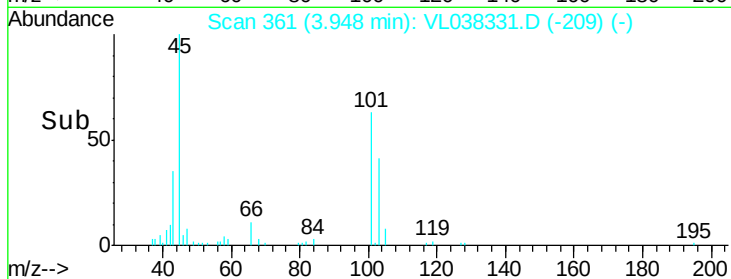
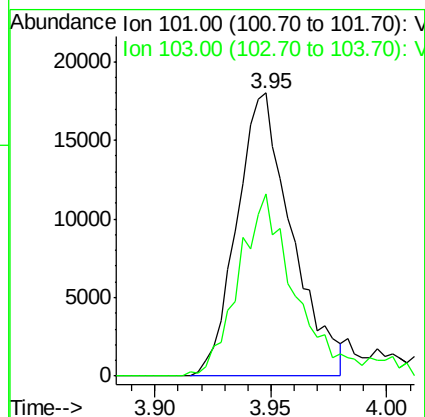
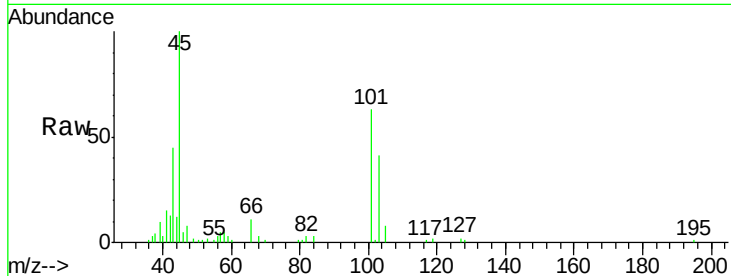


#11
 Trichlorofluoromethane
 Concen: 0.214 ppbv
 RT: 3.95 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 3 Feb 2022 12:57

Tgt Ion: 101
 Ion Ratio: 100
 103 62.

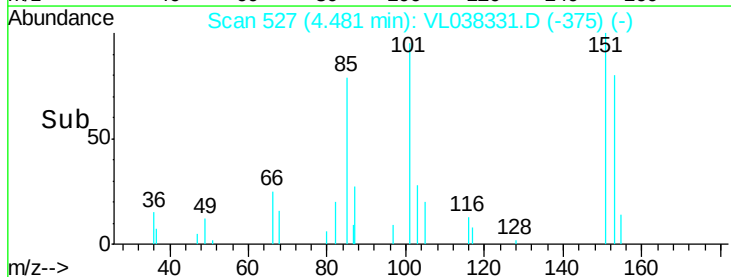
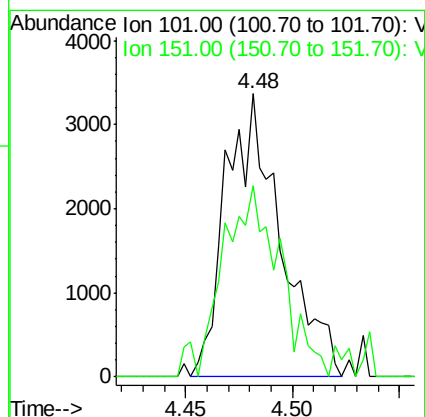
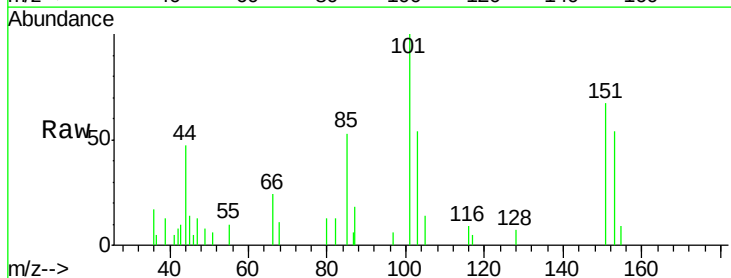
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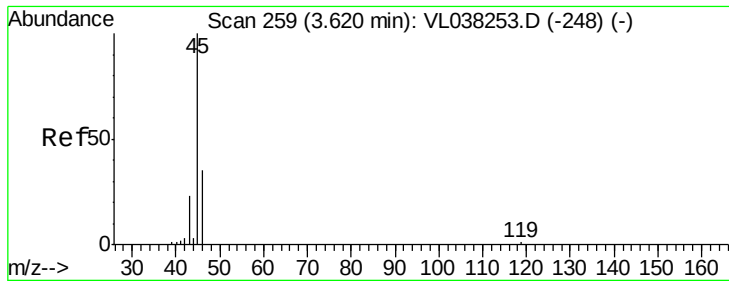
Reviewed By : Semsettin Yesilyurt 02/04/2022
 Supervised By : Mahesh Dadoda 02/04/2022



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.058 ppbv m
 RT: 4.48 min Scan# 527
 Delta R.T.: -0.01 min
 Lab File: VL038331.D
 Acq: 3 Feb 2022 12:57

Tgt Ion: 101 Resp: 6046
 Ion Ratio Lower Upper
 101 100
 151 0.0 55.3 82.9#



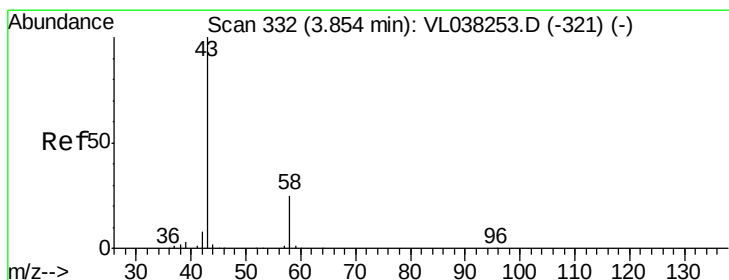
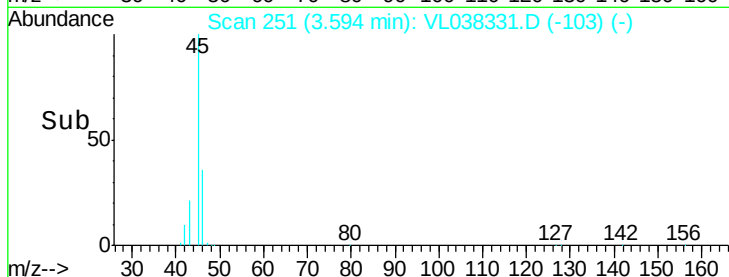
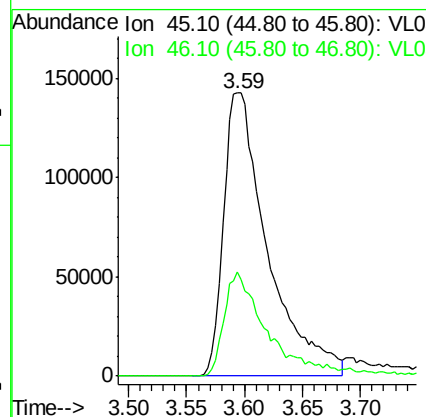
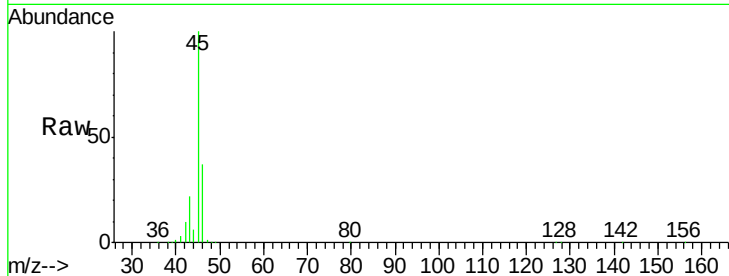


#13
Ethanol
Concen: 64.821 ppbv
RT: 3.59
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:57

Tgt Ion:
Ion Ratio
45 100
46 37.

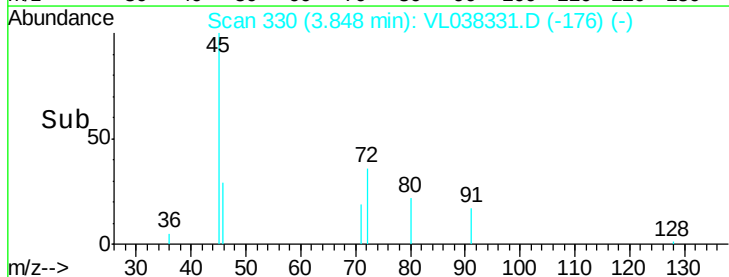
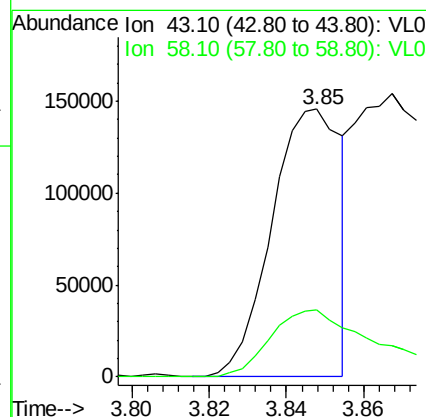
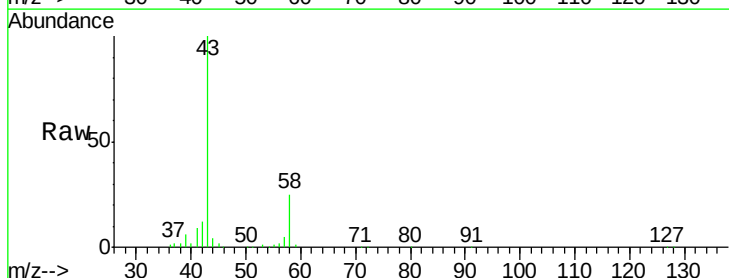
Manual Integrations
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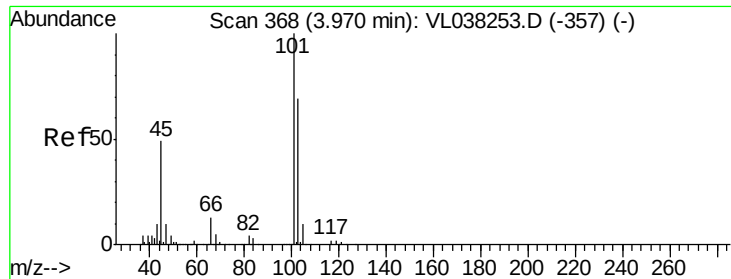
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#15
Acetone
Concen: 2.448 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL038331.D
Acq: 3 Feb 2022 12:57

Tgt Ion: 43 Resp: 180620
Ion Ratio Lower Upper
43 100
58 47.7 21.5 32.3#





#19

Isopropyl Alcohol

Concen: 3.891 ppbv m

RT: 3.96 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 12:57

Tgt Ion:

Ion Ratio

45 100

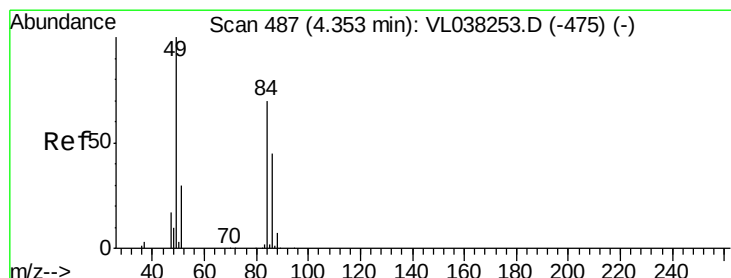
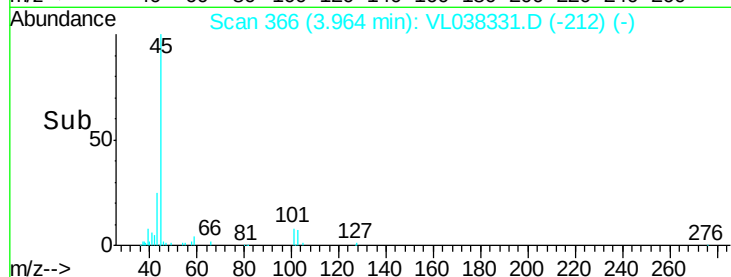
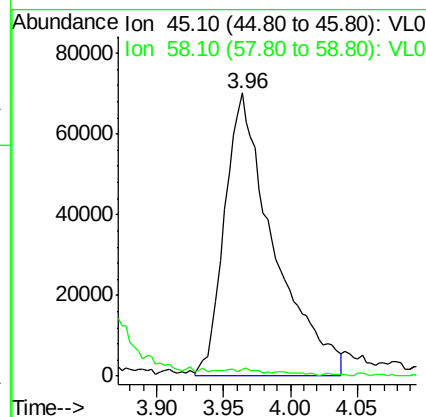
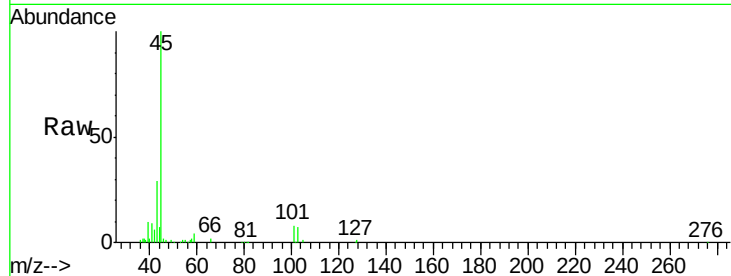
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#20

Methylene Chloride

Concen: 0.364 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL038331.D

Acq: 3 Feb 2022 12:57

Tgt Ion: 84 Resp: 15633

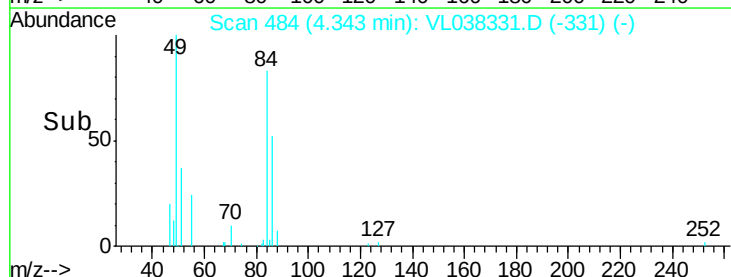
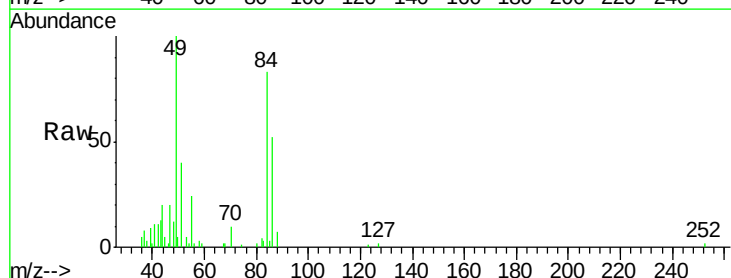
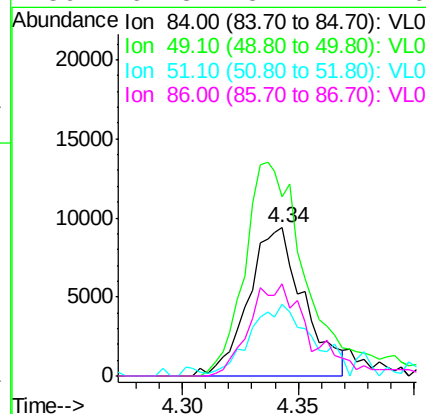
Ion Ratio Lower Upper

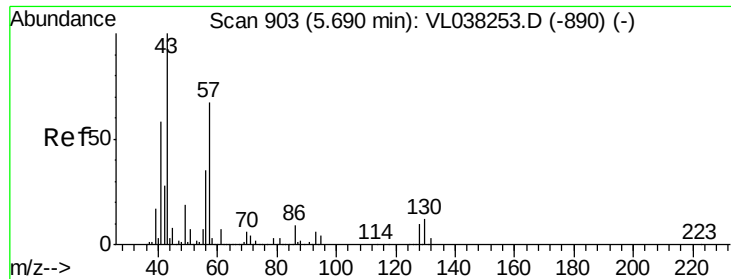
84 100

49 126.0 115.0 172.6

51 42.9 35.0 52.6

86 62.3 51.4 77.0



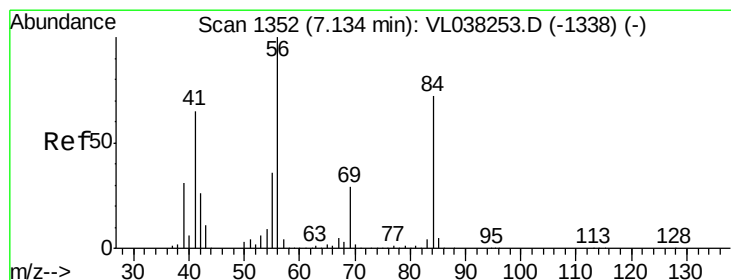
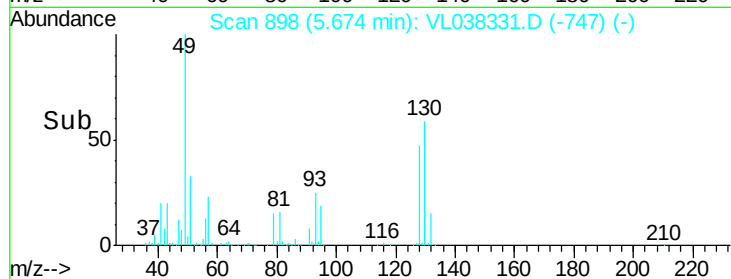
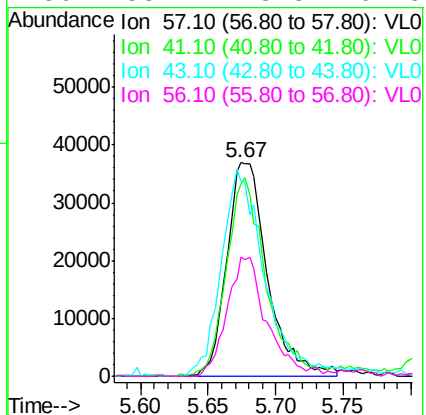
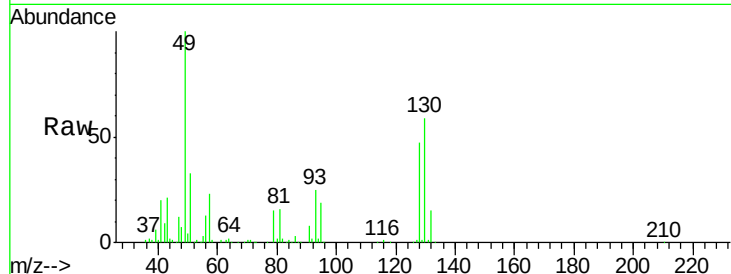


#26
Hexane
Concen: 0.801 ppbv m
RT: 5.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:57

Tgt Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 100
57 100
41 95.
43 107.
56 55.1 43.3 64.9

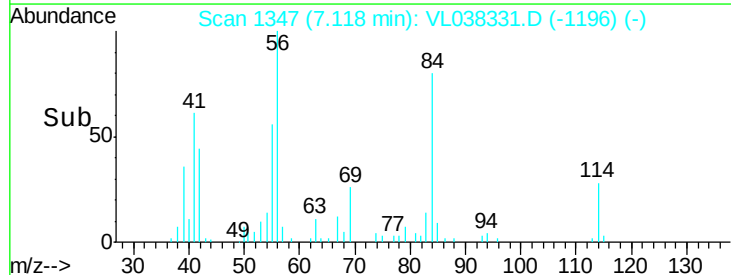
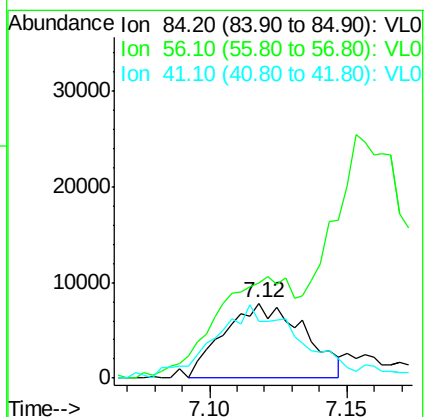
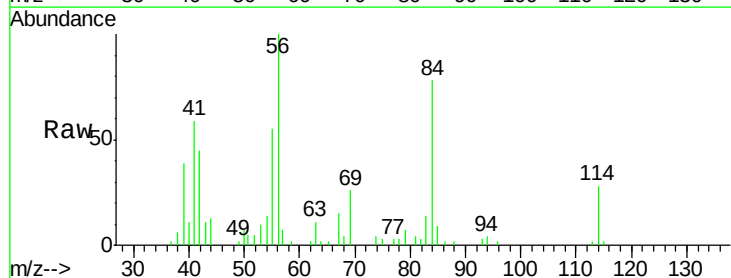
Manual Integrations
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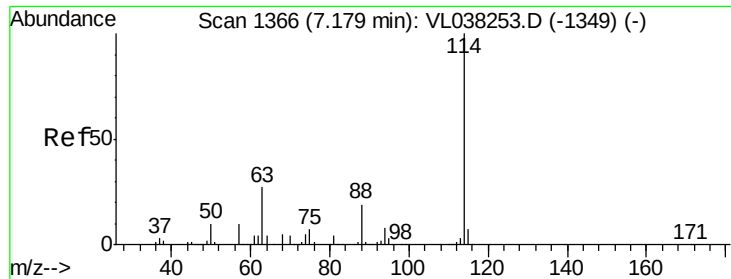
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#30
Cyclohexane
Concen: 0.190 ppbv m
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL038331.D
Acq: 3 Feb 2022 12:57

Tgt Ion: 84 Resp: 15930
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 110.7 71.1 106.7#



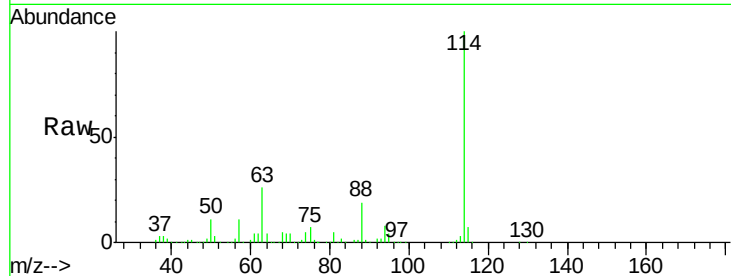


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Instrument : MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 3 Feb 2022 12:57

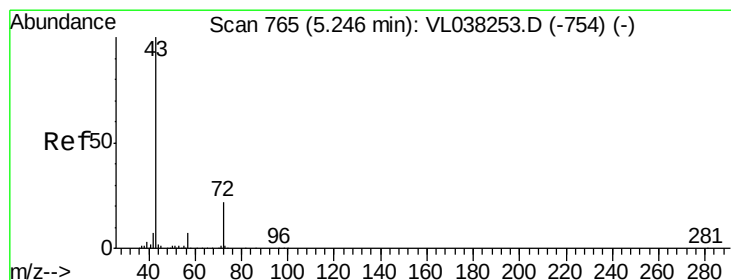
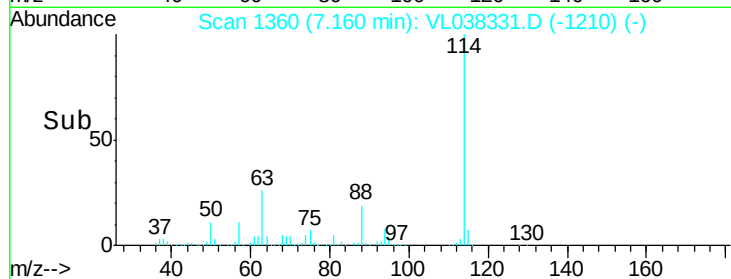
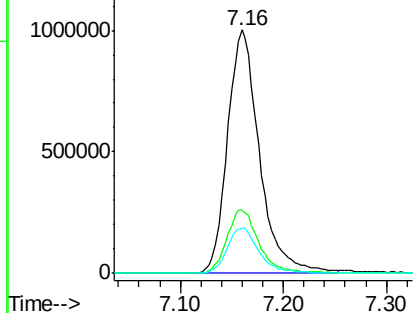
Tgt Ion: 114
 Ion Ratio: 100
 63 26.1
 88 18.1

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 02/04/2022
 Supervised By : Mahesh Dadoda 02/04/2022

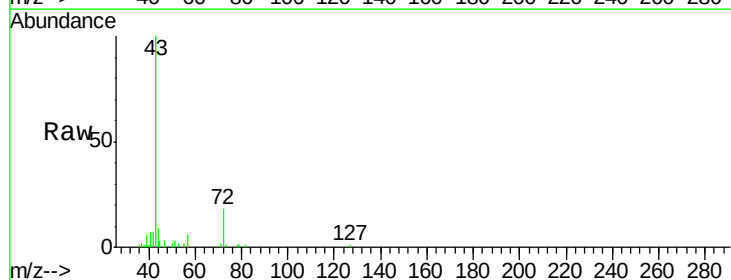


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

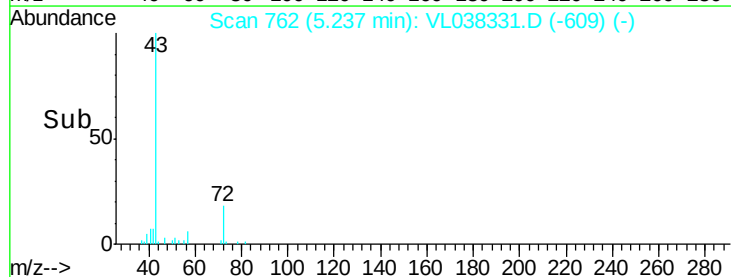
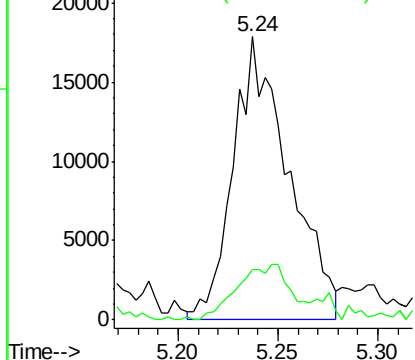


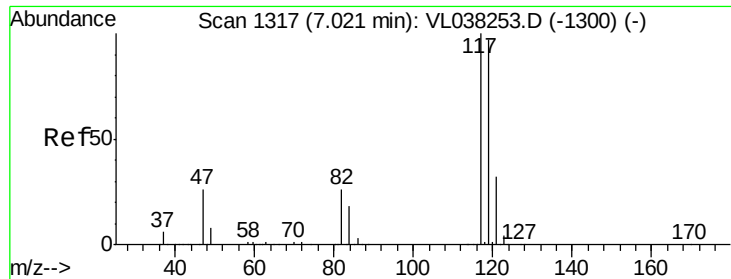
#34
 2-Butanone
 Concen: 0.487 ppbv m
 RT: 5.24 min Scan# 762
 Delta R.T. -0.01 min
 Lab File: VL038331.D
 Acq: 3 Feb 2022 12:57

Tgt Ion: 43 Resp: 34510
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.1 27.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0



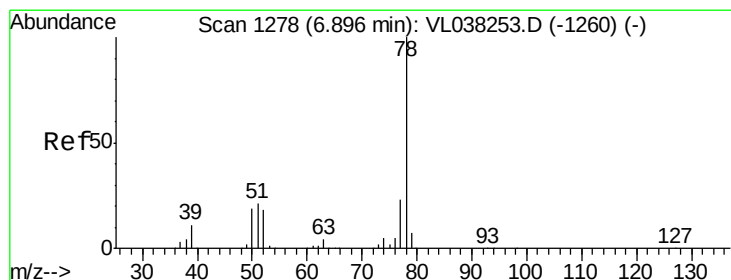
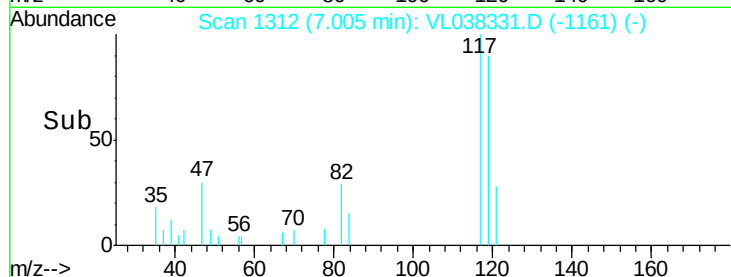
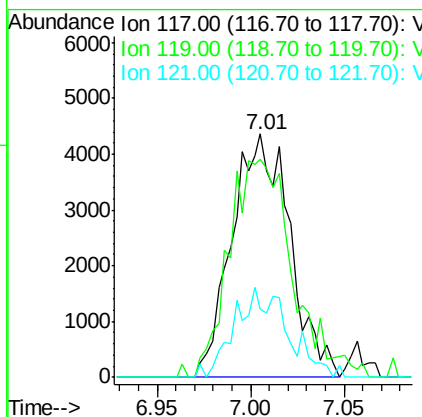
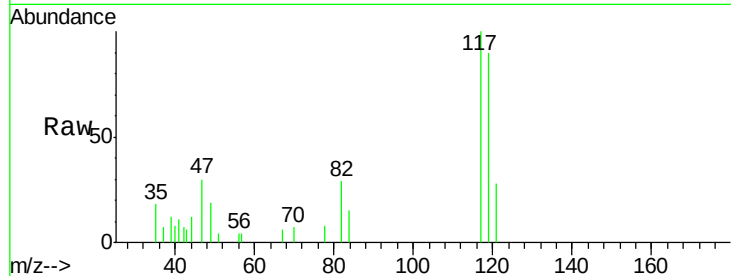


#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 7.01
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:57

Tgt Ion: 117
Ion Ratio: 100
117 100
119 89.
121 27.

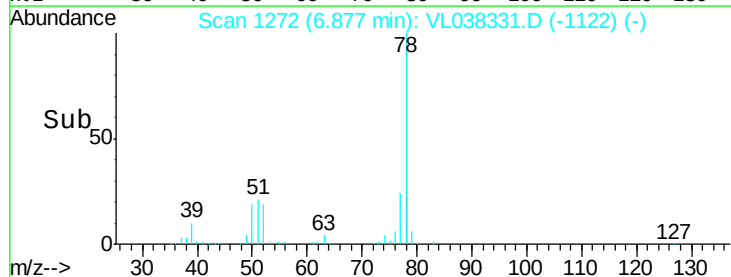
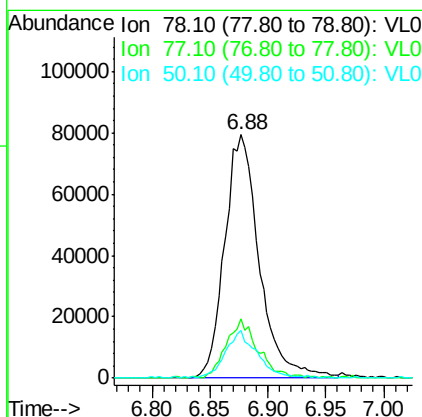
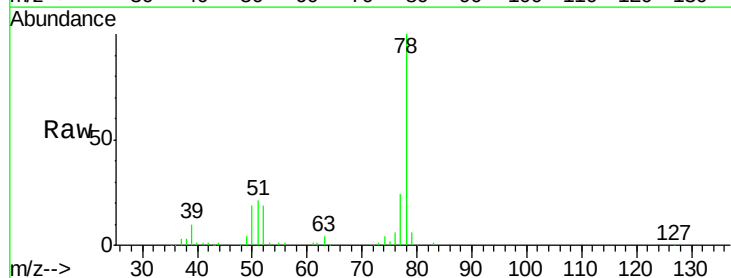
Manual Integrations
APPROVED

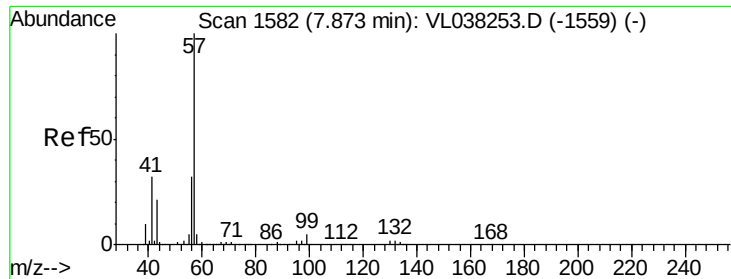
Reviewed By : Semsettin Yesilyurt 02/04/2022
Supervised By : Mahesh Dadoda 02/04/2022



#36
Benzene
Concen: 0.858 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL038331.D
Acq: 3 Feb 2022 12:57

Tgt Ion: 78 Resp: 164361
Ion Ratio Lower Upper
78 100
77 24.2 18.2 27.2
50 19.4 15.1 22.7



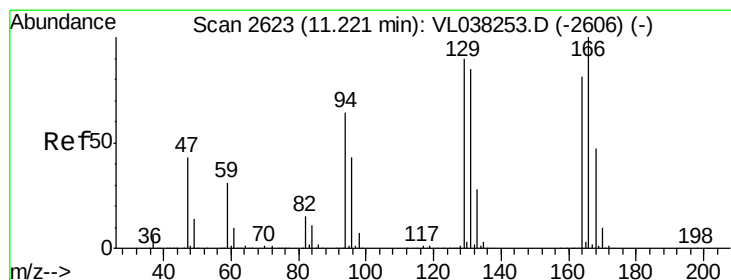
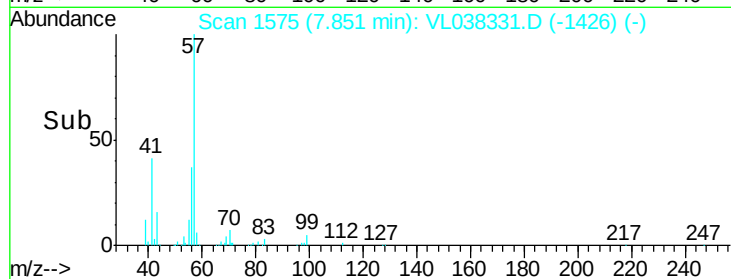
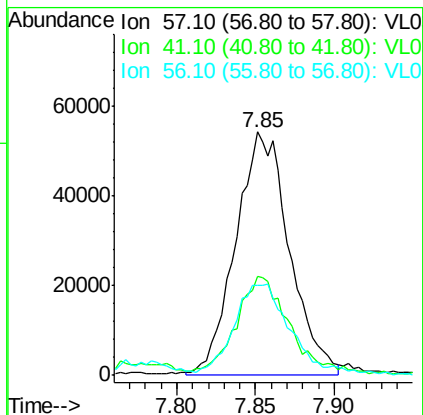
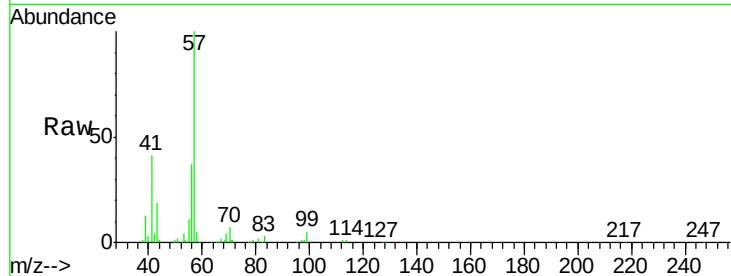


#44
 2,2,4-Trimethylpentane
 Concen: 0.384 ppbv m
 RT: 7.85
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampled :
 Acq: 3 Feb 2022 12:57

Tgt Ion:
 Ion Ratio
 57 100
 41 41.
 56 0.

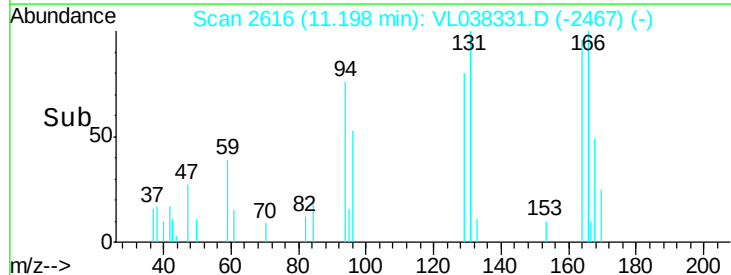
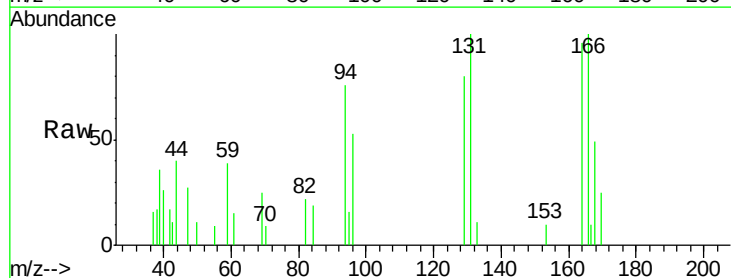
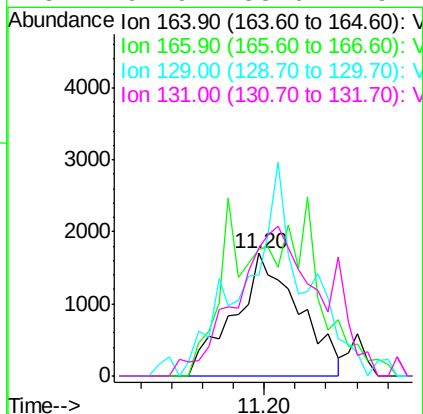
Manual Integrations
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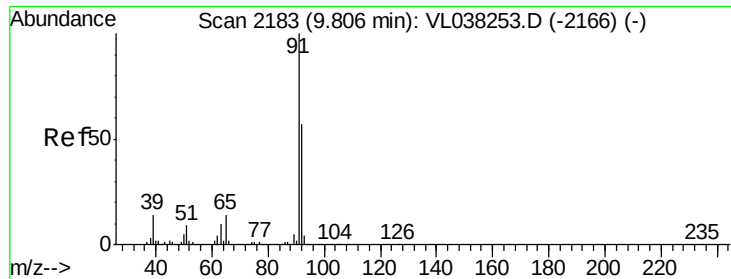
Reviewed By :Semsettin Yesilyurt 02/04/2022
 Supervised By :Mahesh Dadoda 02/04/2022



#52
 Tetrachloroethene
 Concen: 0.037 ppbv
 RT: 11.20 min Scan# 2616
 Delta R.T. -0.02 min
 Lab File: VL038331.D
 Acq: 3 Feb 2022 12:57

Tgt Ion:164 Resp: 2474
 Ion Ratio Lower Upper
 164 100
 166 113.6 98.8 148.2
 129 71.0 89.2 133.8#
 131 92.9 83.6 125.4



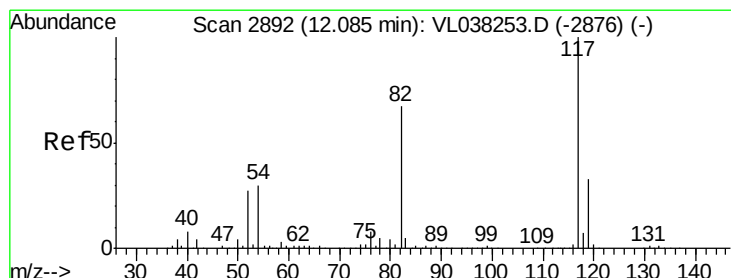
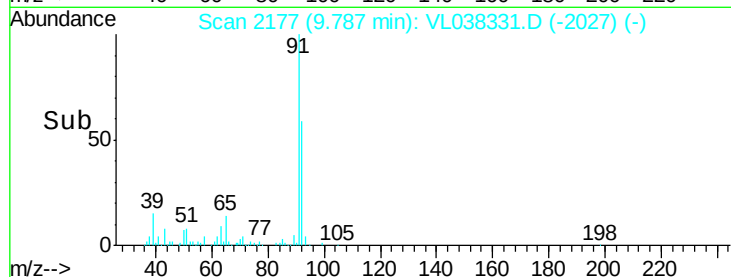
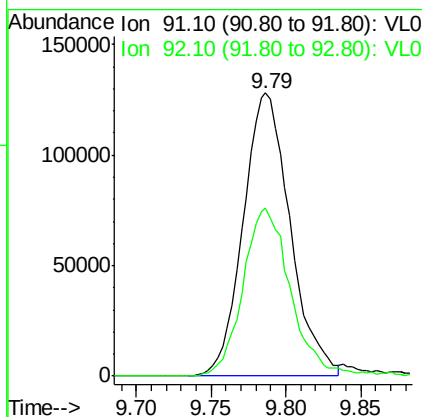
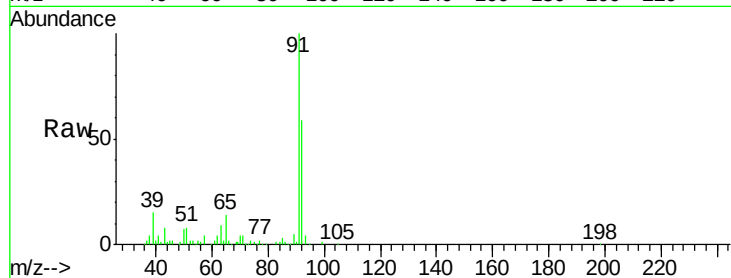


#53
Toluene
Concen: 1.319 ppbv
RT: 9.79
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:57

Tgt Ion:
Ion Ratio
91 100
92 60.

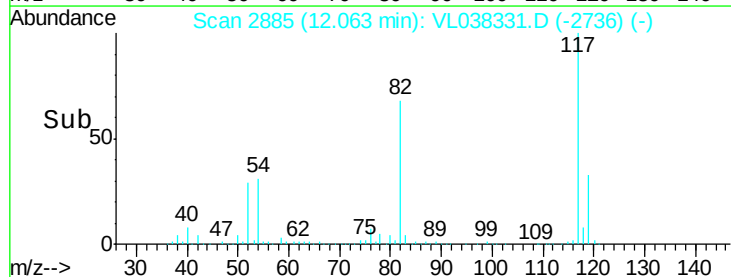
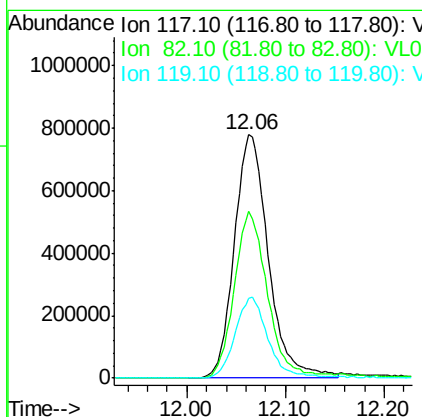
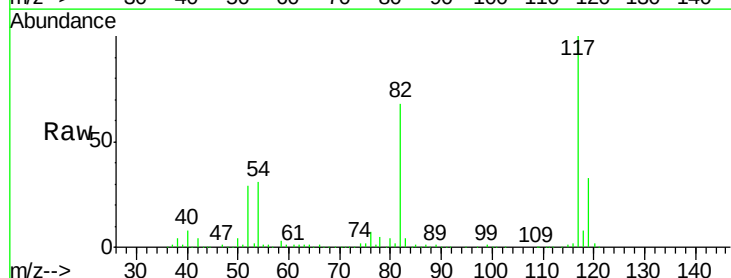
Manual Integrations
APPROVED

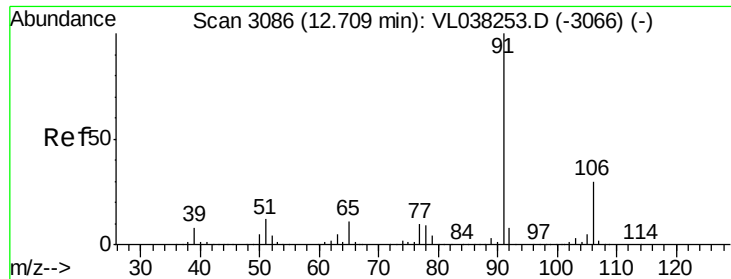
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.02 min
Lab File: VL038331.D
Acq: 3 Feb 2022 12:57

Tgt Ion:117 Resp: 1871199
Ion Ratio Lower Upper
117 100
82 68.8 54.4 81.6
119 33.0 45.9 68.9#



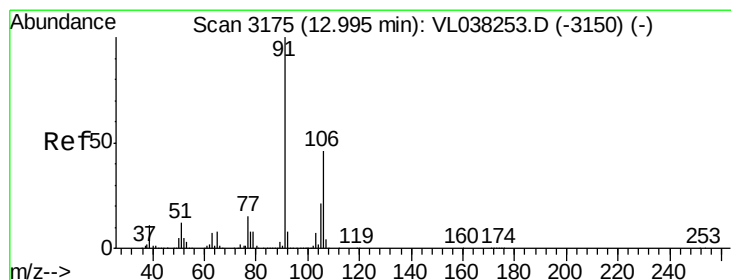
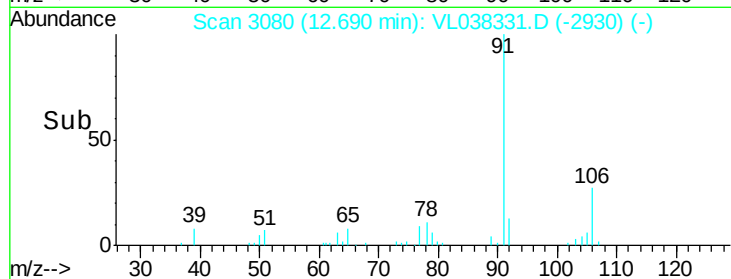
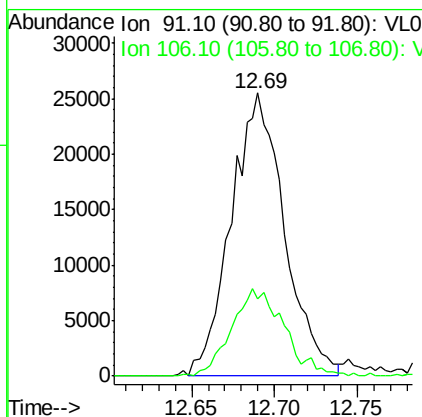
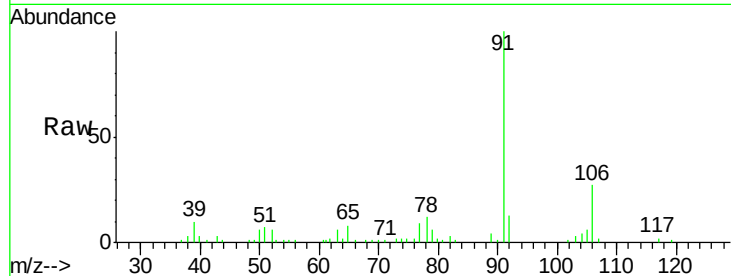


#58
Ethyl Benzene
Concen: 0.208 ppbv
RT: 12.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:57

Tgt Ion:
Ion Ratio
91 100
106 26.

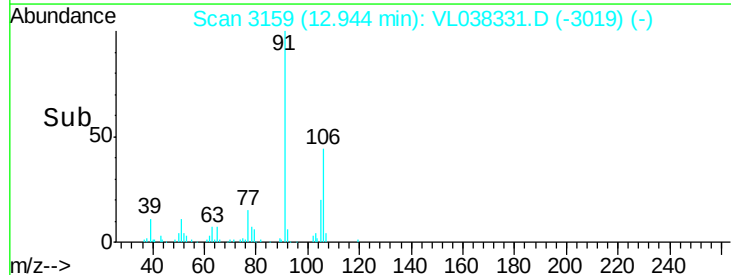
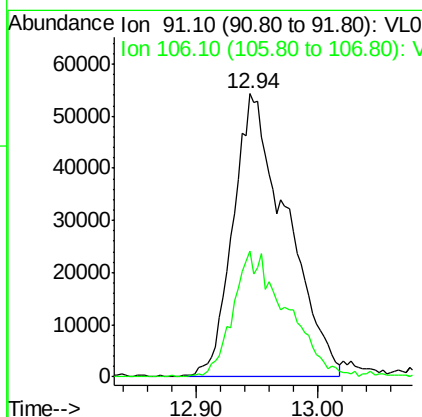
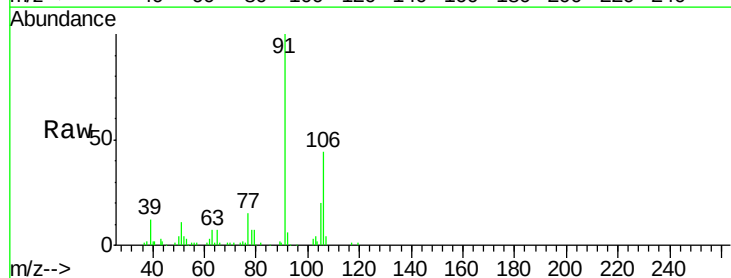
Manual Integrations
APPROVED

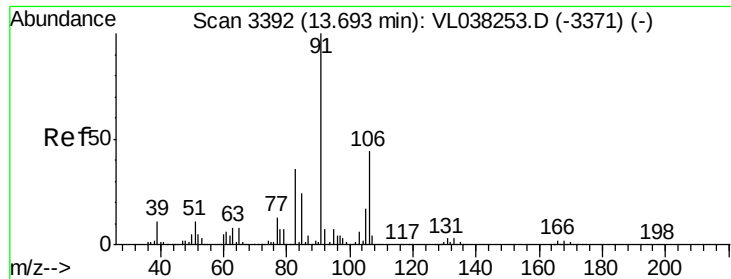
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#59
m/p-Xylene
Concen: 0.714 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.05 min
Lab File: VL038331.D
Acq: 3 Feb 2022 12:57

Tgt Ion: 91 Resp: 167533
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2#



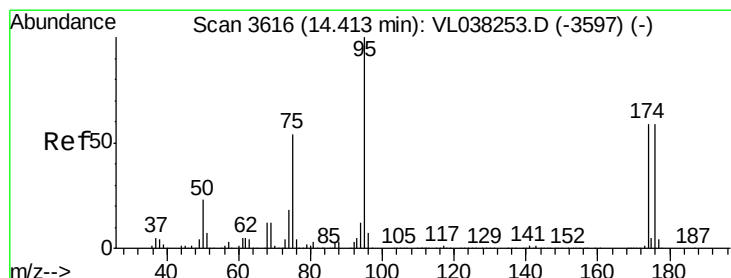
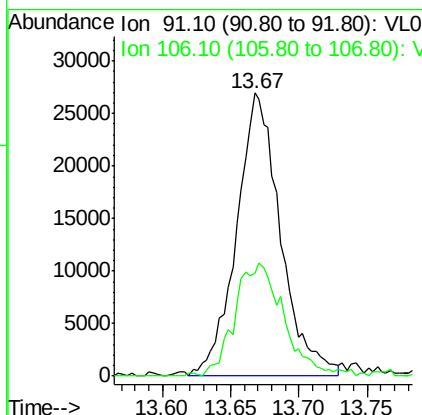
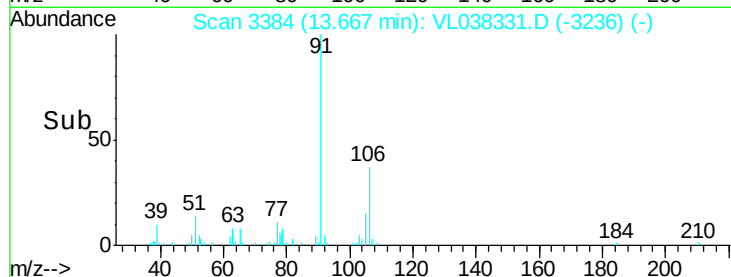
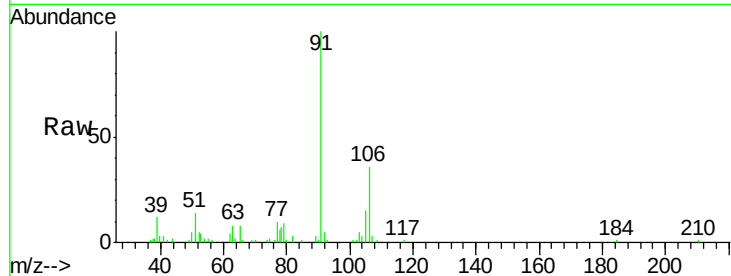


#60
o-Xylene
Concen: 0.277 ppbv
RT: 13.67
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:57

Tgt Ion:
Ion Ratio
91 100
106 45.

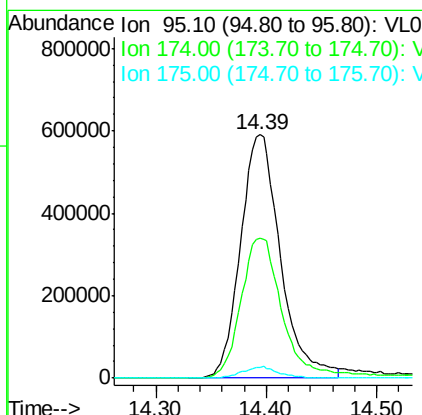
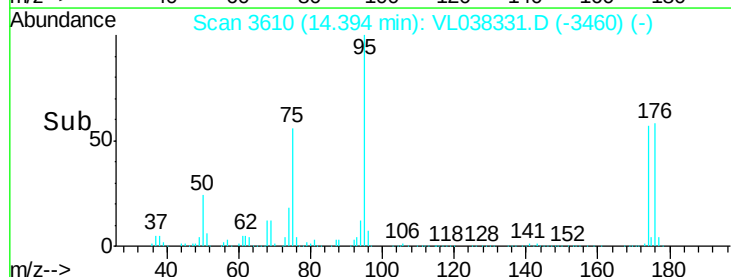
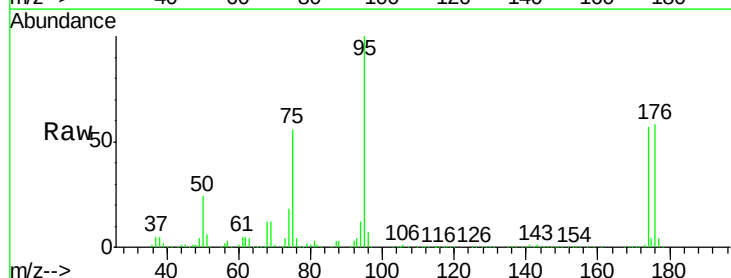
Manual Integrations
APPROVED

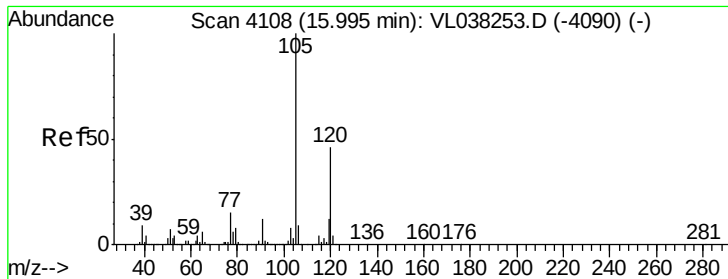
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.468 ppbv
RT: 14.39 min Scan# 3610
Delta R.T.: -0.02 min
Lab File: VL038331.D
Acq: 3 Feb 2022 12:57

Tgt Ion: 95 Resp: 1486764
Ion Ratio Lower Upper
95 100
174 61.7 48.3 72.5
175 4.4 3.5 5.3





#73

1,3,5-Trimethylbenzene

Concen: 0.085 ppbv m

RT: 15.97 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 12:57

Tgt Ion:1

Ion Ratio

105 100

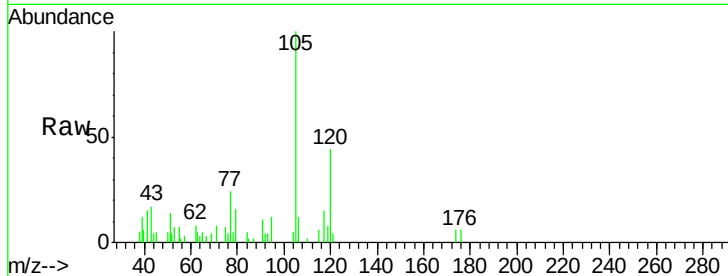
120 43.

Manual Integrations

APPROVED

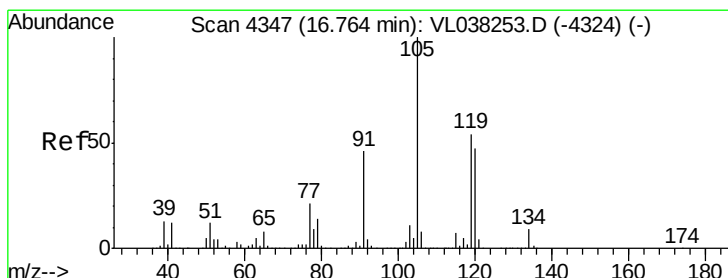
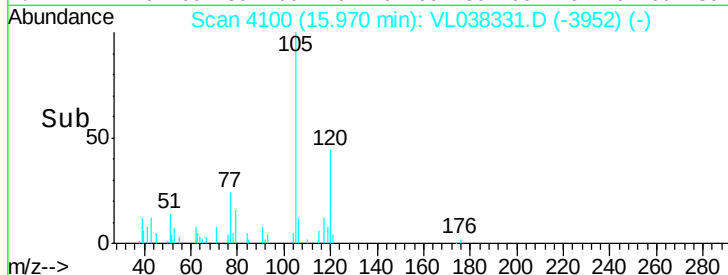
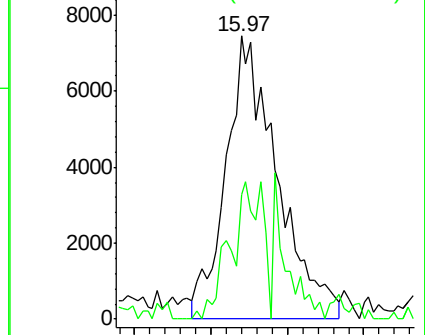
Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.278 ppbv m

RT: 16.73 min Scan# 4338

Delta R.T. -0.03 min

Lab File: VL038331.D

Acq: 3 Feb 2022 12:57

Tgt Ion:105 Resp: 60007

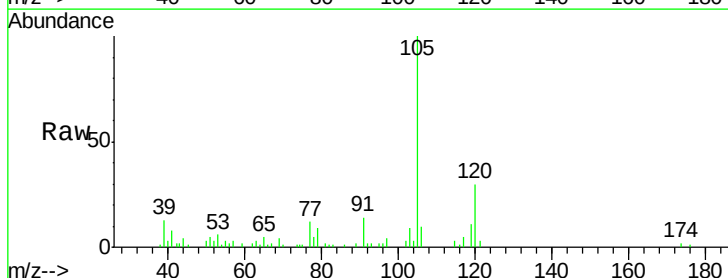
Ion Ratio Lower Upper

105 100

120 30.3 37.2 55.8#

91 13.6 36.6 55.0#

77 12.5 16.9 25.3#

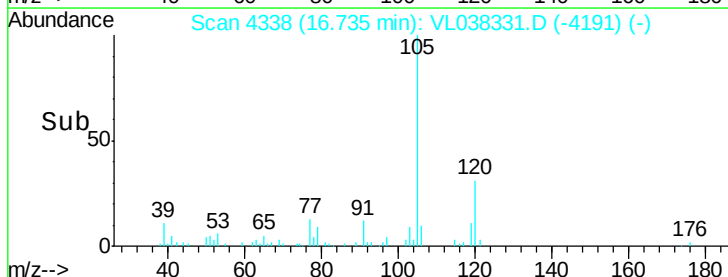
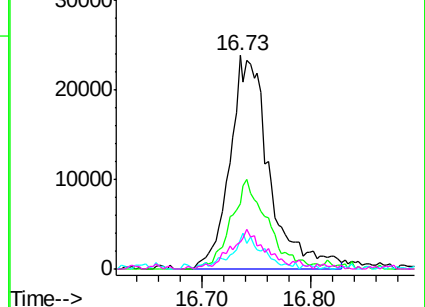


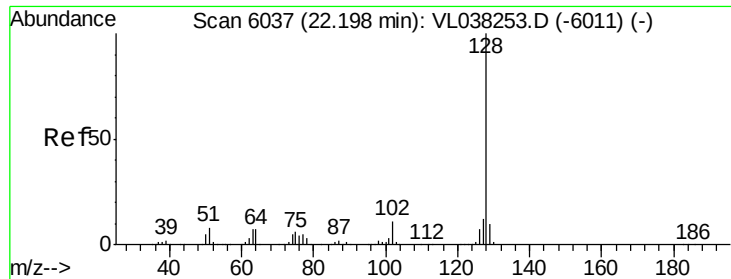
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.107 ppbv m

RT: 22.18

Delta R.T MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 12:57

Tgt Ion:1

Ion Rati

128 100

127 21.

129 19.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022

