

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020322\
 Data File : VL038330.D
 Acq On : 3 Feb 2022 12:16
 Operator : SY/AP
 Sample : N1379-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: Feb 04 08:55:15 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422A
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	837064	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2259532	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1858776	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1501285	10.64	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	36644	0.206	ppbv	94
3) Chlorodifluoromethane	2.99	51	117599m	0.706	ppbv	
4) Chloromethane	3.13	50	25722	0.449	ppbv	99
9) Propene	3.02	41	379291m	6.992	ppbv	
10) Heptane	8.10	43	43344	0.311	ppbv	97
11) Trichlorofluoromethane	3.94	101	34267m	0.247	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	6029	0.057	ppbv	100
13) Ethanol	3.59	45	376532	64.658	ppbv	96
15) Acetone	3.84	43	151332	2.051	ppbv #	47
19) Isopropyl Alcohol	3.96	45	176529	3.824	ppbv #	97
20) Methylene Chloride	4.33	84	16424m	0.383	ppbv	
26) Hexane	5.67	57	70446	0.733	ppbv #	58
30) Cyclohexane	7.11	84	19672	0.235	ppbv #	27
34) 2-Butanone	5.23	43	29132m	0.394	ppbv	
35) Carbon Tetrachloride	7.00	117	10409m	0.066	ppbv	
36) Benzene	6.87	78	168607	0.844	ppbv	97
44) 2,2,4-Trimethylpentane	7.85	57	136734	0.388	ppbv #	87
53) Toluene	9.79	91	287838	1.301	ppbv	98
58) Ethyl Benzene	12.69	91	63846m	0.234	ppbv	
59) m/p-Xylene	12.95	91	179811m	0.772	ppbv	
60) o-Xylene	13.66	91	61746	0.285	ppbv	99
73) 1,3,5-Trimethylbenzene	15.97	105	22259m	0.109	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	65836m	0.307	ppbv	
79) Naphthalene	22.18	128	24537m	0.244	ppbv	

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

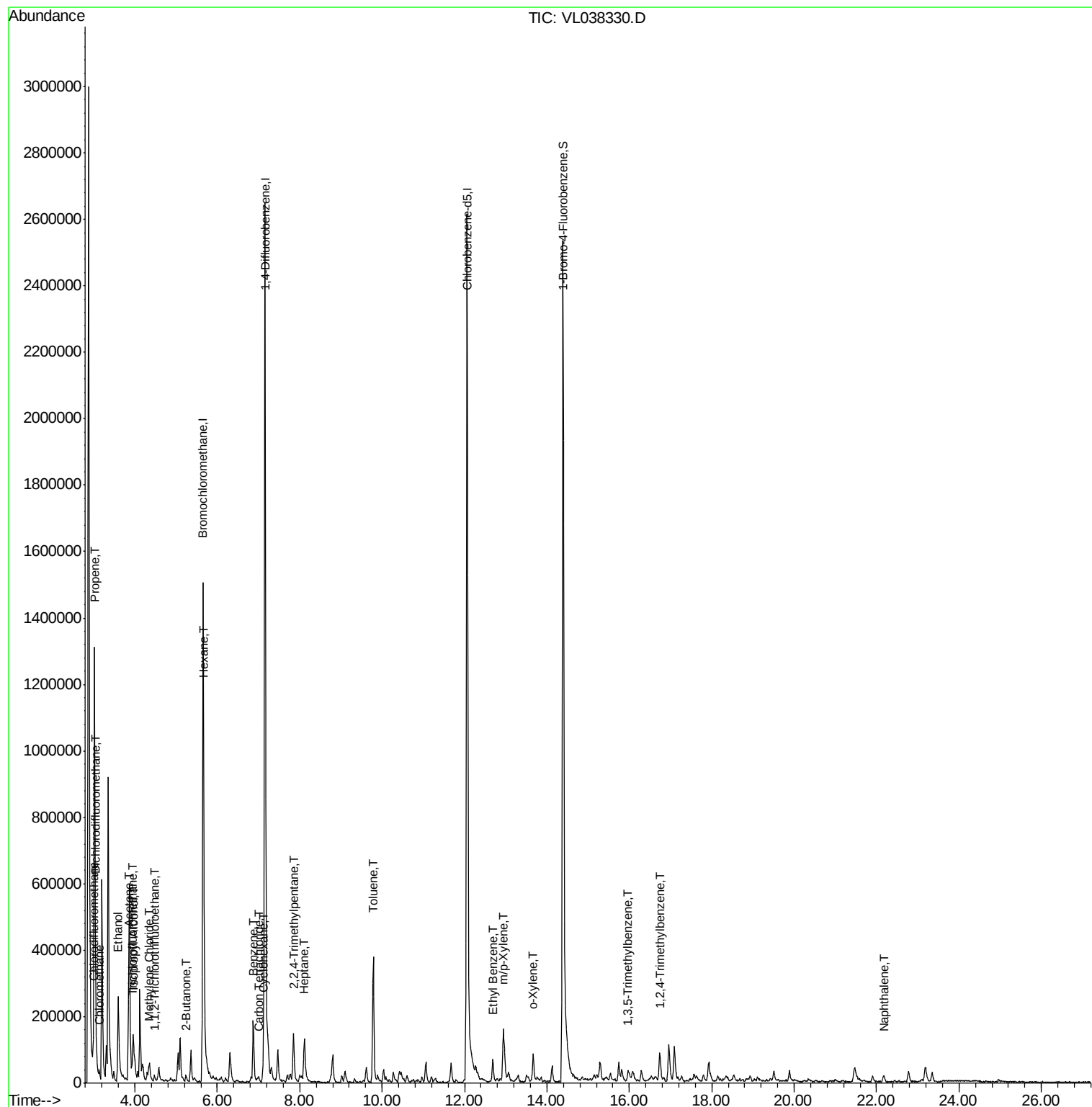
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020322\
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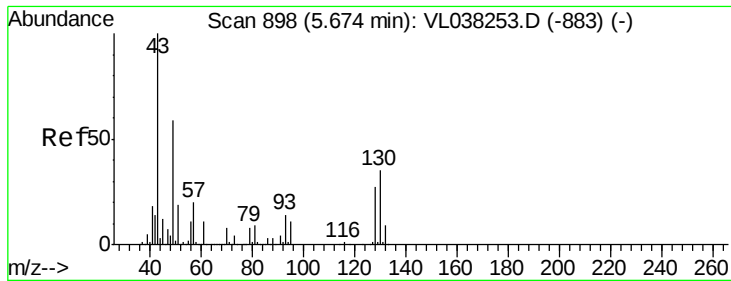
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Feb 04 08:55:15 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
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Manual Integrations
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 12:16

Tgt Ion:

Ion Ratio

49 100

128 48.

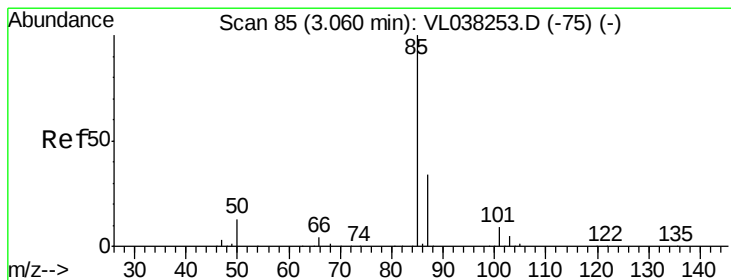
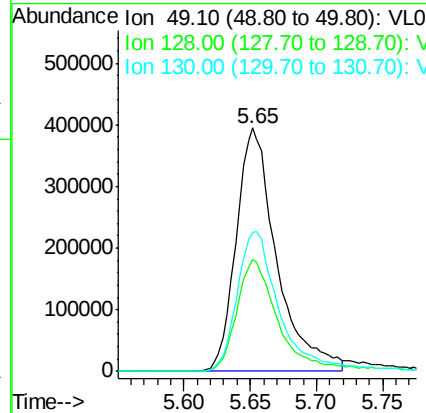
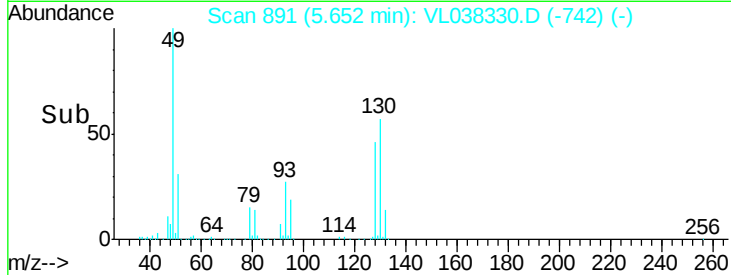
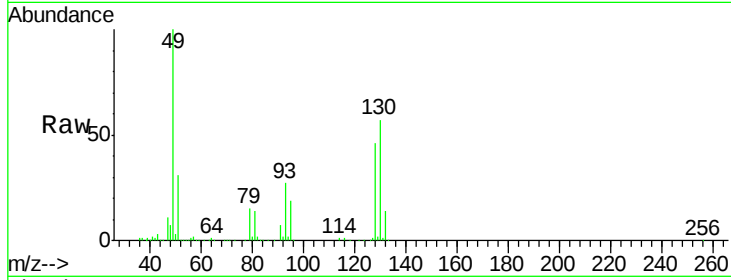
130 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#2

Dichlorodifluoromethane

Concen: 0.206 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL038330.D

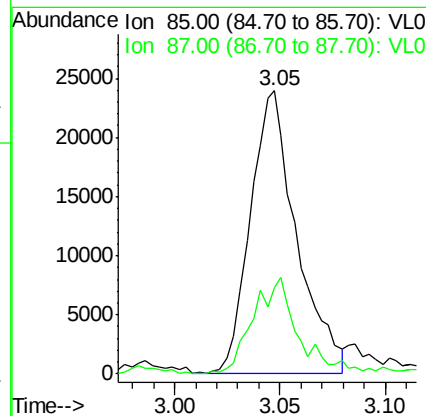
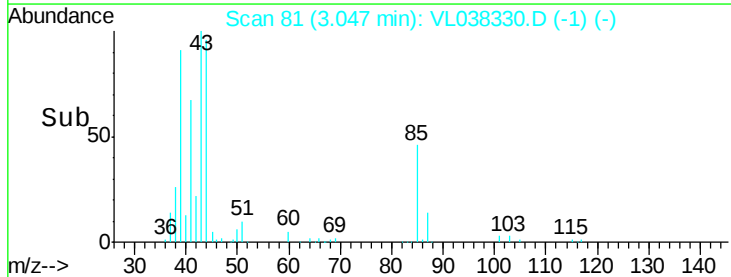
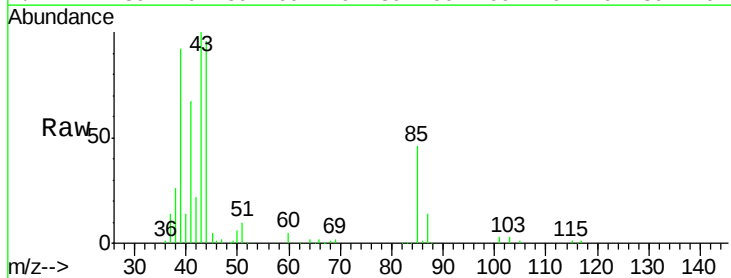
Acq: 3 Feb 2022 12:16

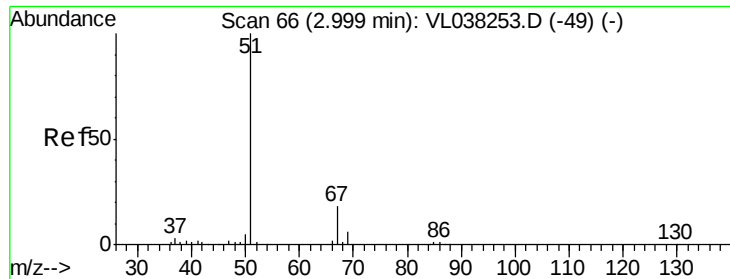
Tgt Ion: 85 Resp: 36644

Ion Ratio Lower Upper

85 100

87 30.6 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.706 ppbv m

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 12:16

Tgt Ion:

Ion Ratio

51 100

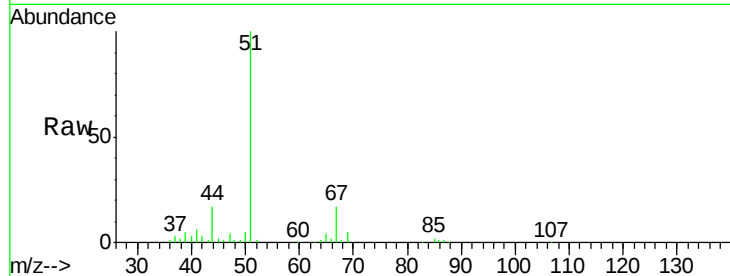
67 16.

Manual Integrations

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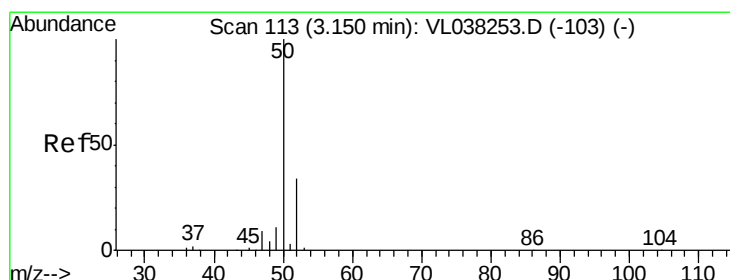
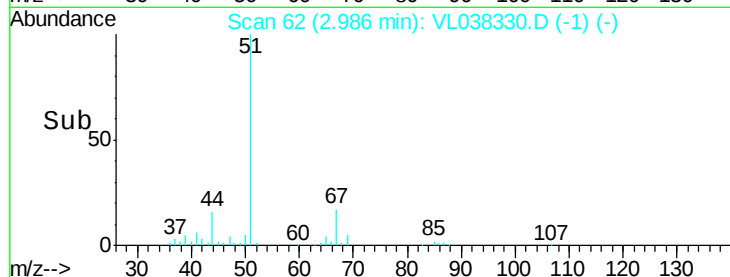
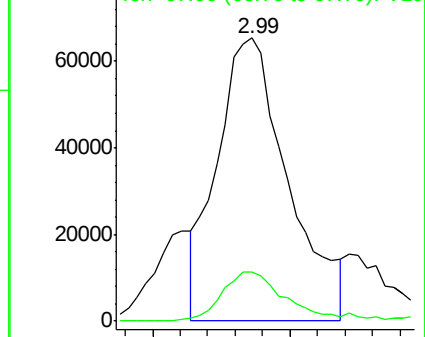
Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.449 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.02 min

Lab File: VL038330.D

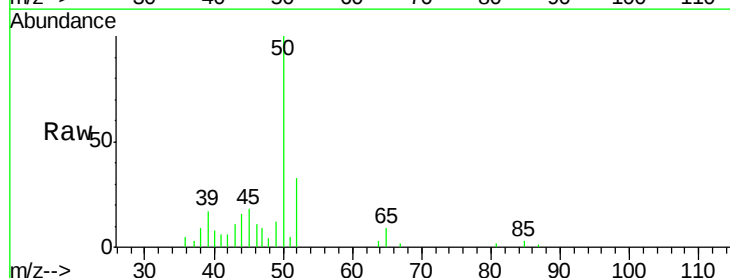
Acq: 3 Feb 2022 12:16

Tgt Ion: 50 Resp: 25722

Ion Ratio Lower Upper

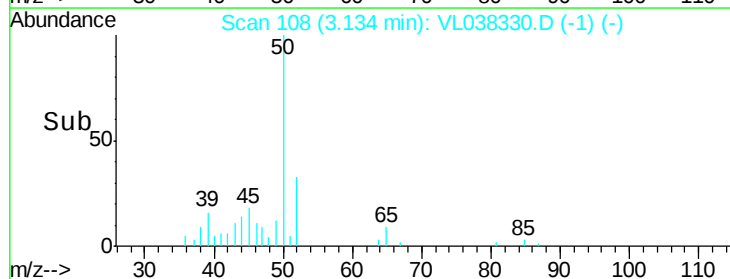
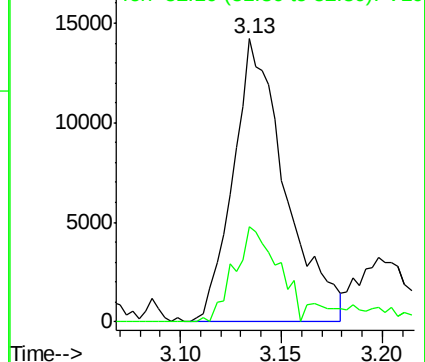
50 100

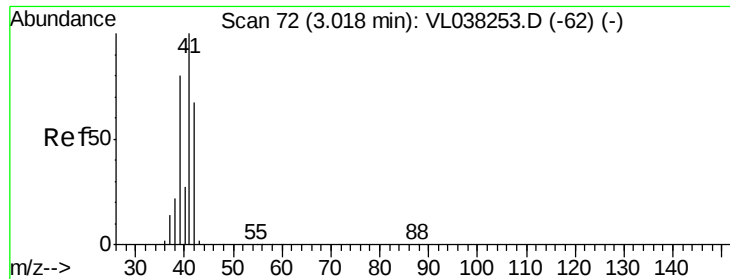
52 33.5 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



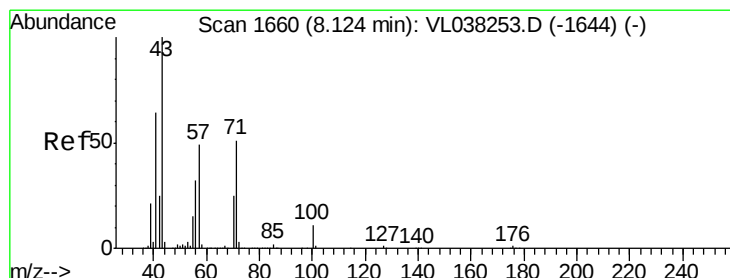
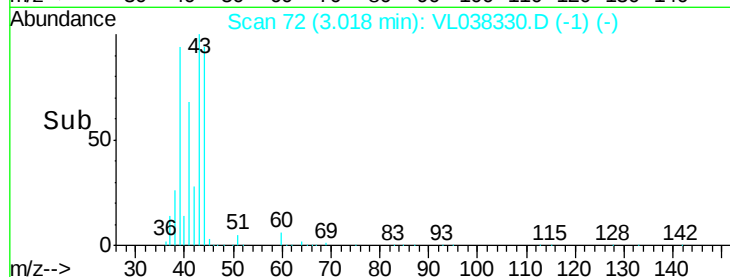
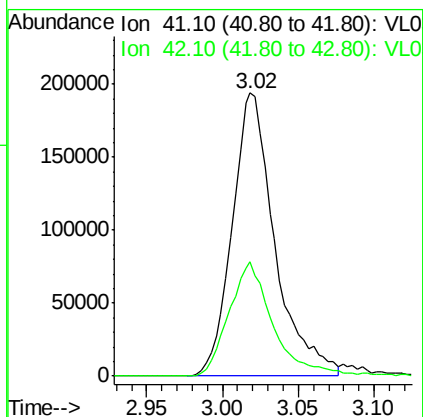
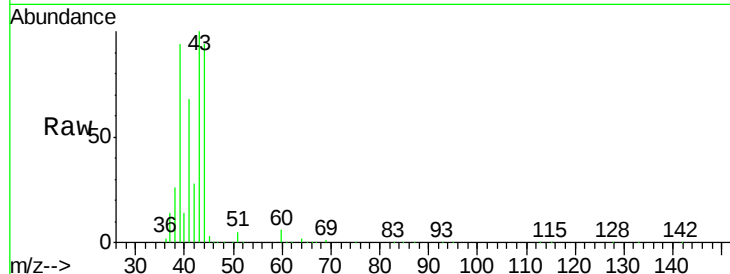


#9
 Propene
 Concen: 6.992 ppbv m
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Feb 2022 12:16

Tgt Ion:
 Ion Ratio
 41 100
 42 38.

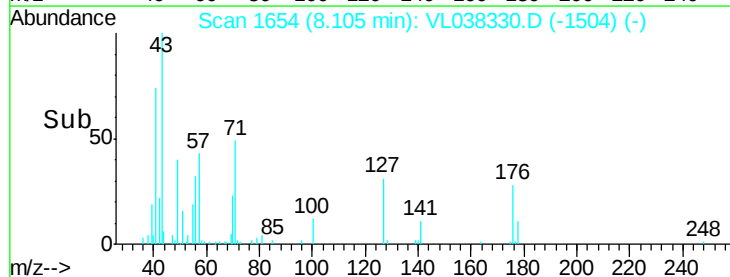
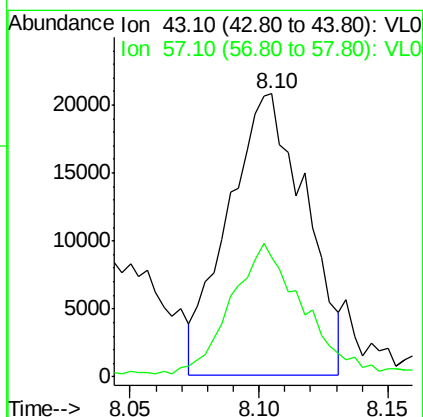
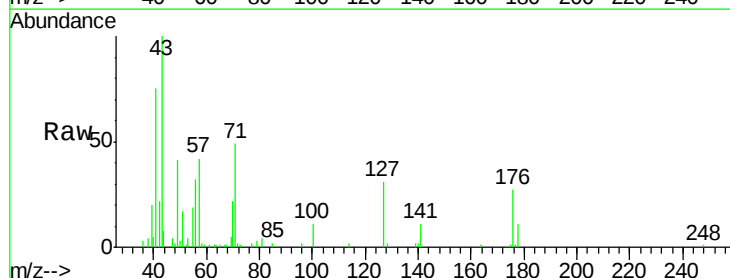
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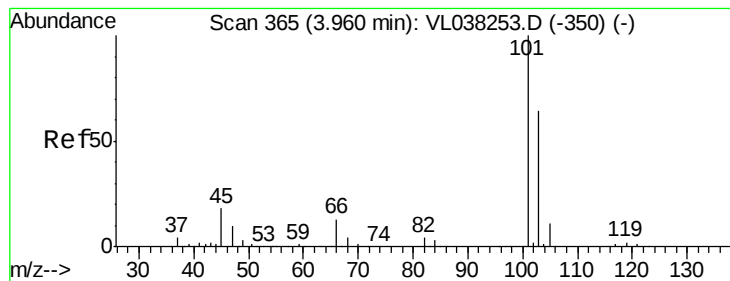
Reviewed By :Semsettin Yesilyurt 02/04/2022
 Supervised By :Mahesh Dadoda 02/04/2022



#10
 Heptane
 Concen: 0.311 ppbv
 RT: 8.10 min Scan# 1654
 Delta R.T. -0.02 min
 Lab File: VL038330.D
 Acq: 3 Feb 2022 12:16

Tgt Ion: 43 Resp: 43344
 Ion Ratio Lower Upper
 43 100
 57 47.5 39.5 59.3





#11

Trichlorofluoromethane

Concen: 0.247 ppbv m

RT: 3.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 12:16

Tgt Ion:1

Ion Rati

101 100

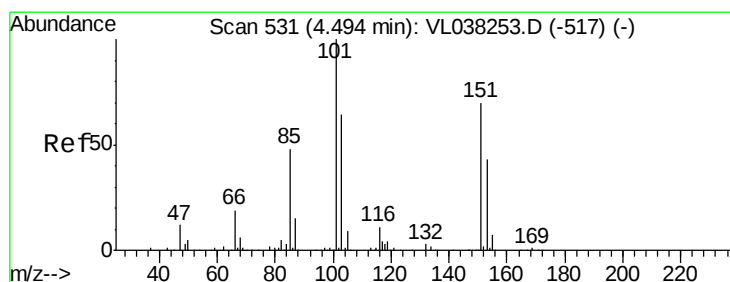
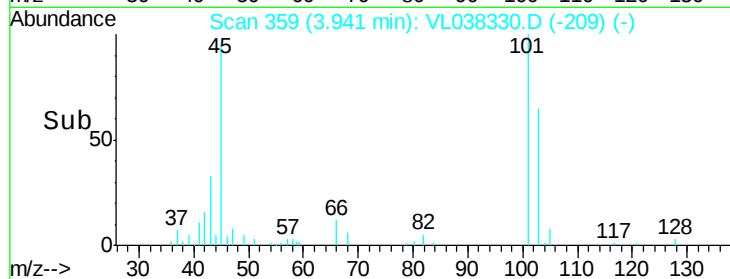
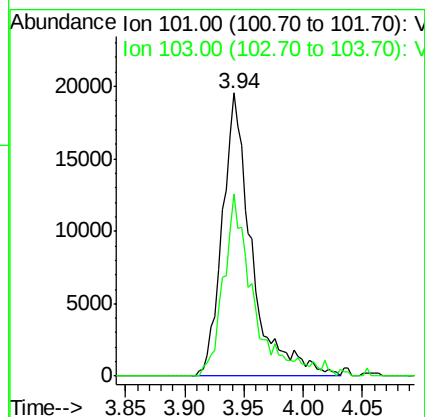
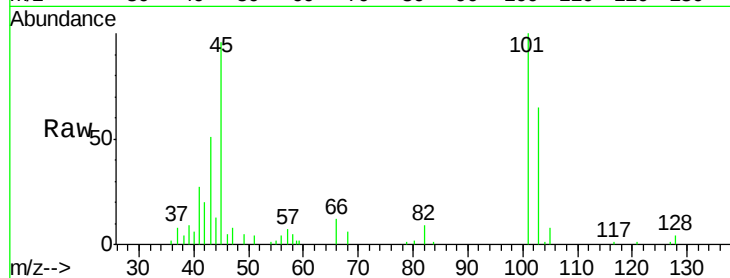
103 64.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.057 ppbv

RT: 4.47 min Scan# 525

Delta R.T. -0.02 min

Lab File: VL038330.D

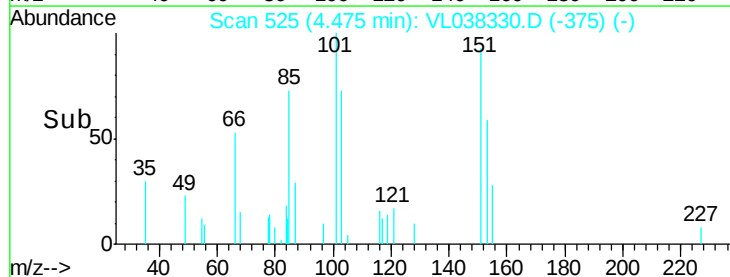
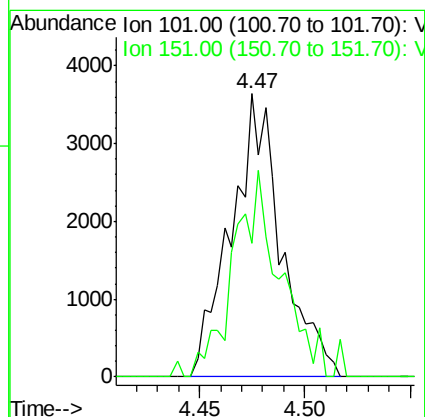
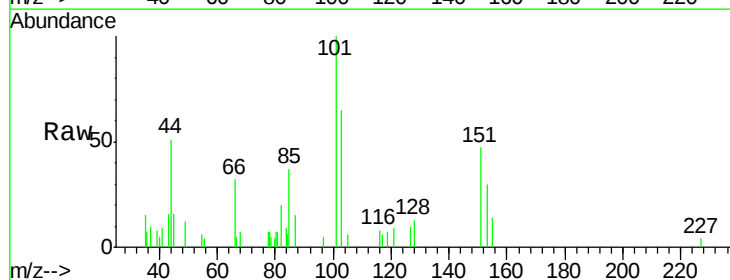
Acq: 3 Feb 2022 12:16

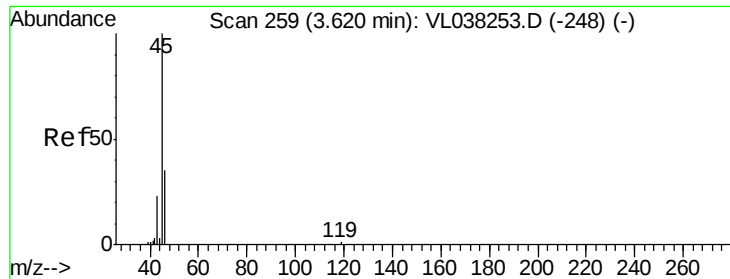
Tgt Ion:101 Resp: 6029

Ion Ratio Lower Upper

101 100

151 69.3 55.3 82.9



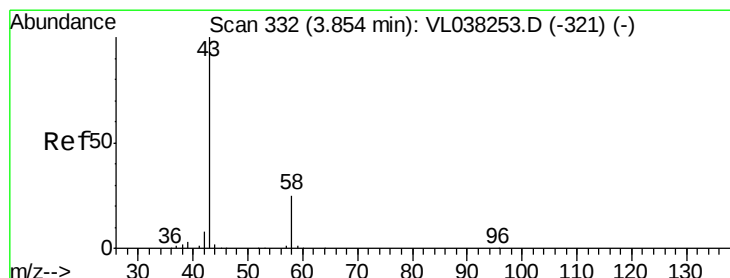
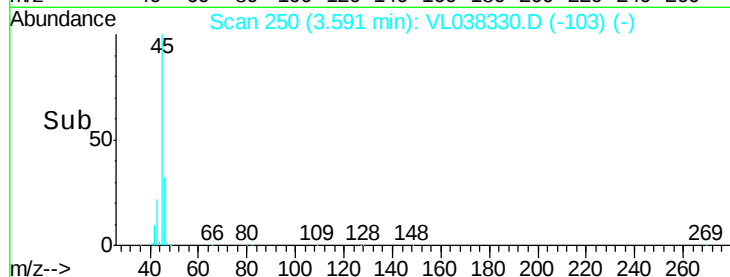
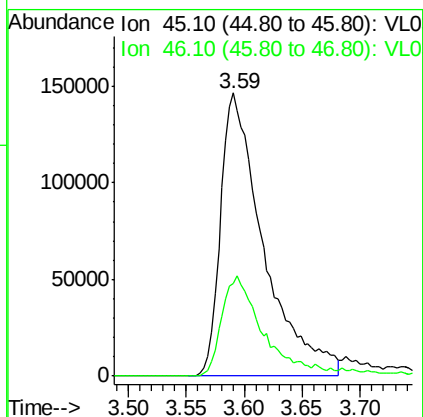
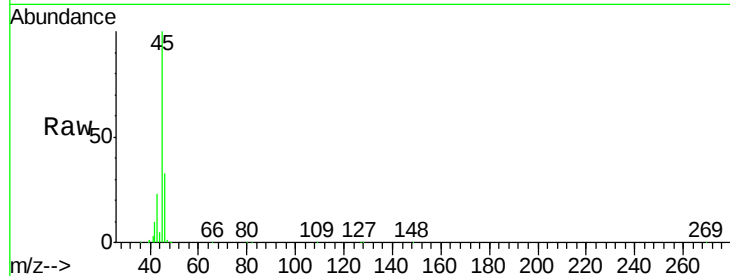


#13
Ethanol
Concen: 64.658 ppbv
RT: 3.59
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:16

Tgt Ion:
Ion Ratio
45 100
46 36.

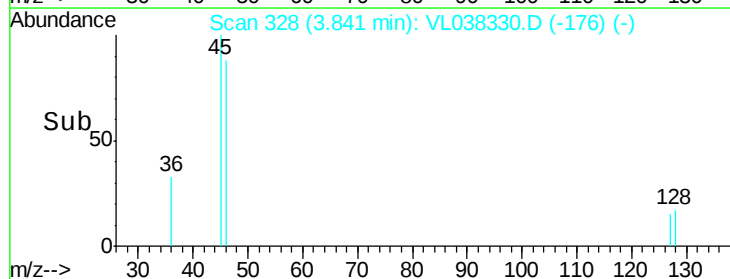
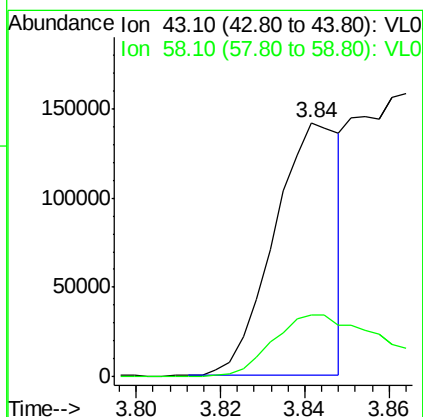
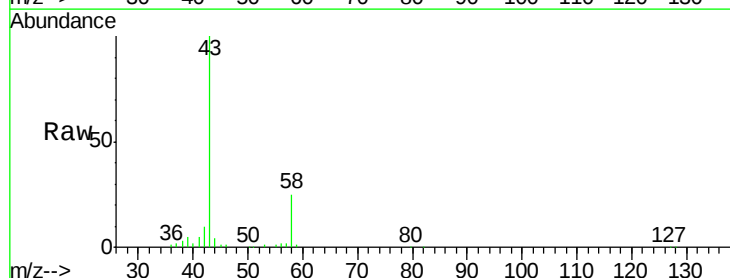
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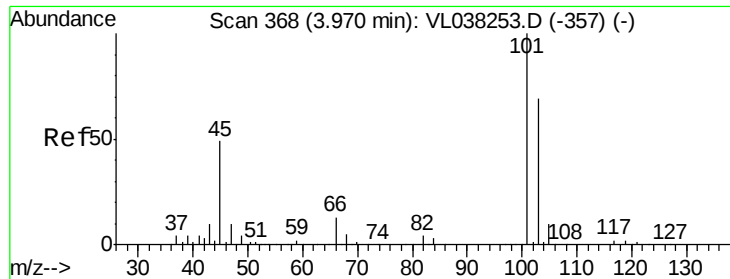
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#15
Acetone
Concen: 2.051 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL038330.D
Acq: 3 Feb 2022 12:16

Tgt Ion: 43 Resp: 151332
Ion Ratio Lower Upper
43 100
58 54.1 21.5 32.3#





#19

Isopropyl Alcohol

Concen: 3.824 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 12:16

Tgt Ion:

Ion Ratio

45 100

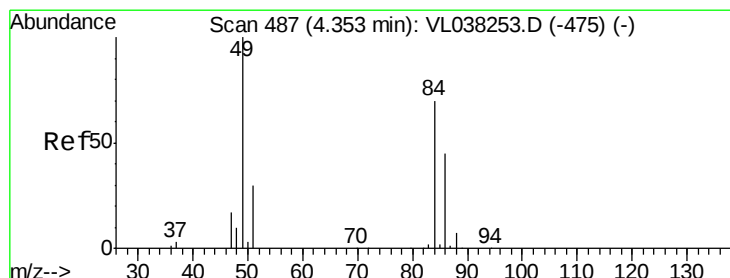
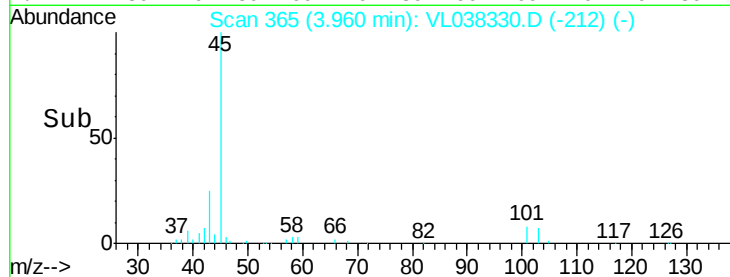
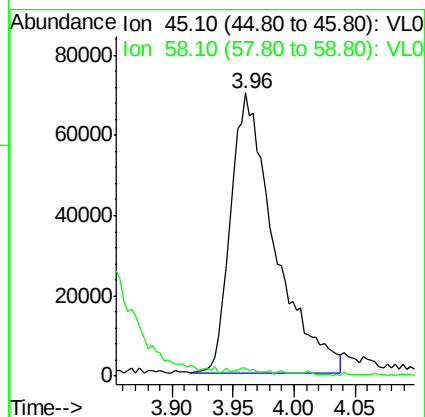
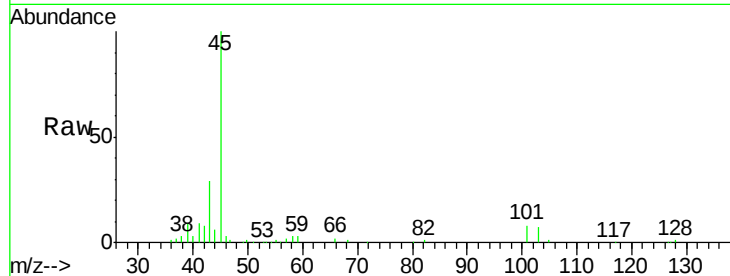
58 4.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#20

Methylene Chloride

Concen: 0.383 ppbv m

RT: 4.33 min Scan# 481

Delta R.T. -0.02 min

Lab File: VL038330.D

Acq: 3 Feb 2022 12:16

Tgt Ion: 84 Resp: 16424

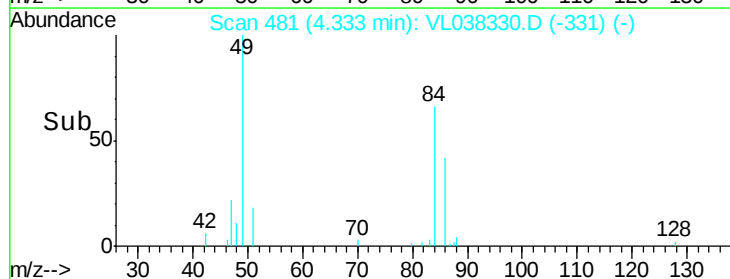
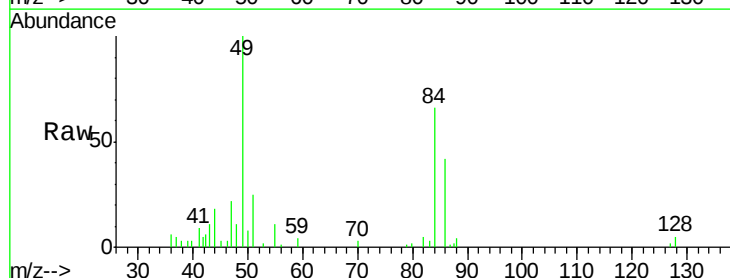
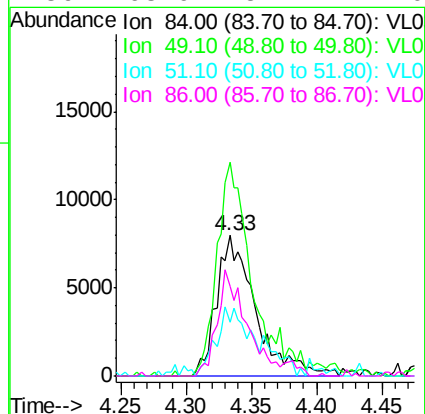
Ion Ratio Lower Upper

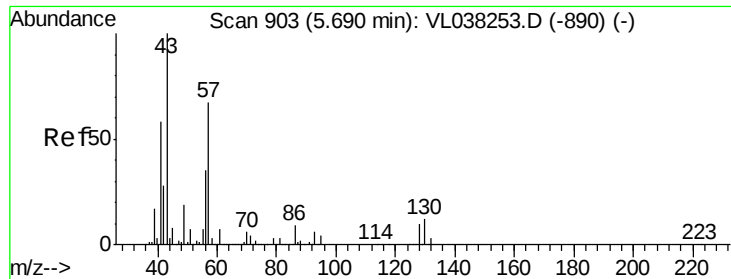
84 100

49 152.3 115.0 172.6

51 38.6 35.0 52.6

86 63.9 51.4 77.0



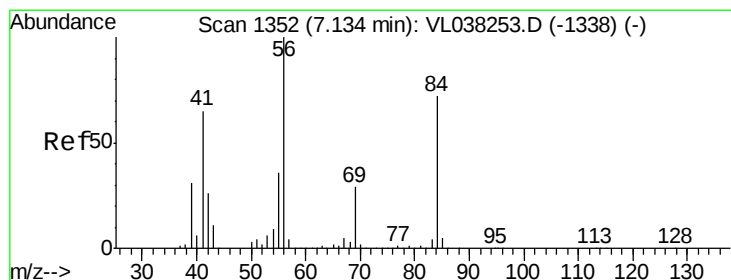
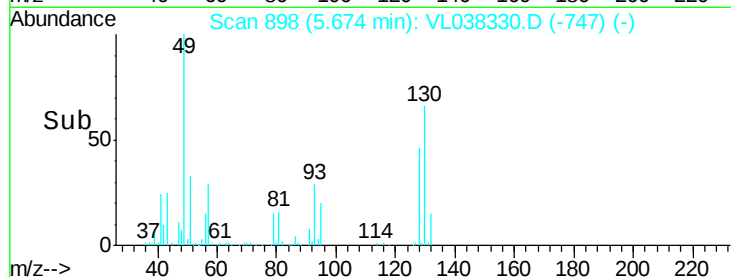
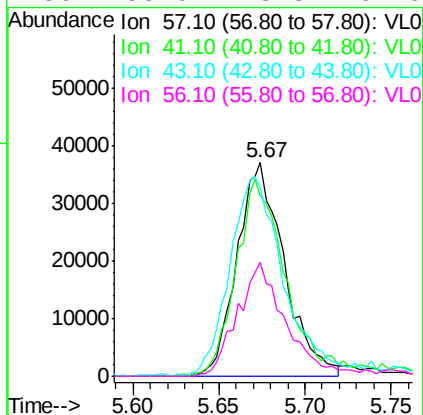
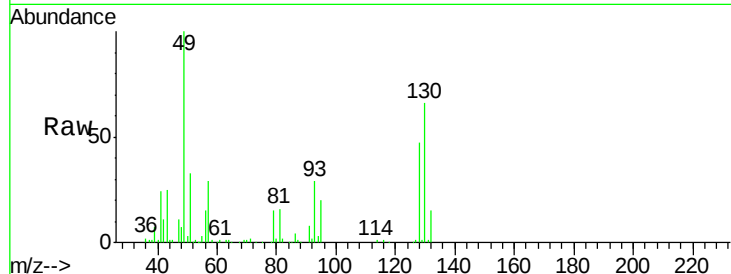


#26
Hexane
Concen: 0.733 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:16

Tgt Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 100
57 100
41 100.
43 115.
56 55.0 43.3 64.9

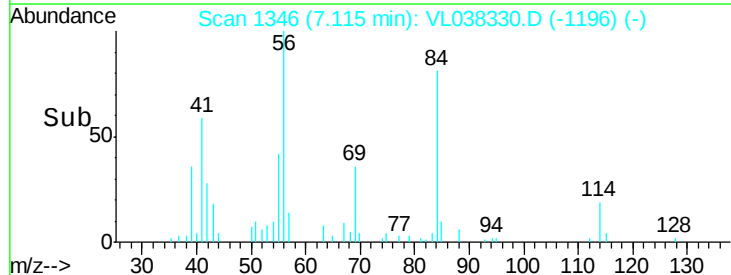
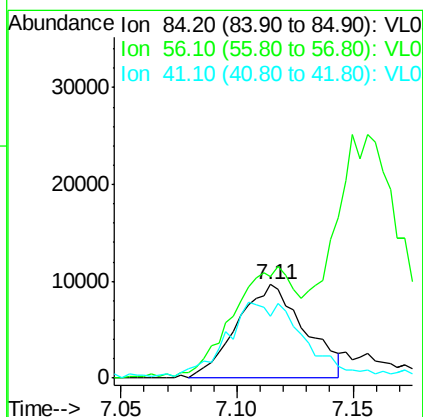
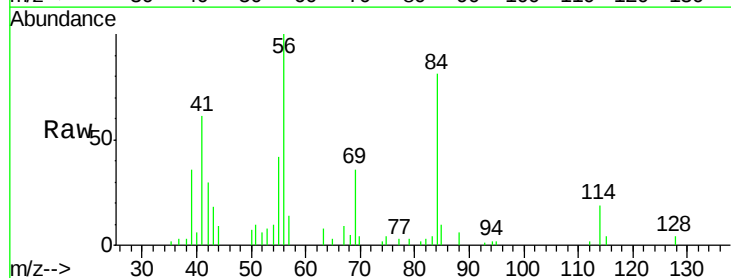
Manual Integrations
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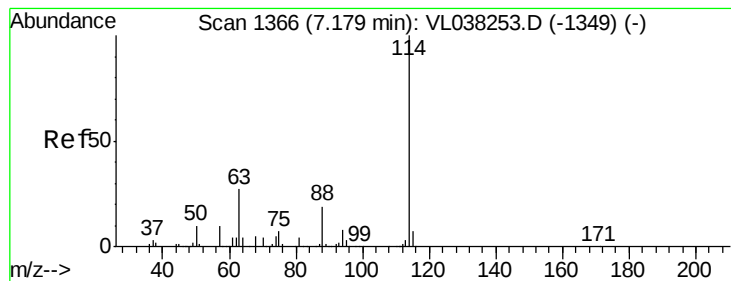
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#30
Cyclohexane
Concen: 0.235 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL038330.D
Acq: 3 Feb 2022 12:16

Tgt Ion: 84 Resp: 19672
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 95.2 71.1 106.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 12:16

Tgt Ion:1

Ion Ratio

114 100

63 26.

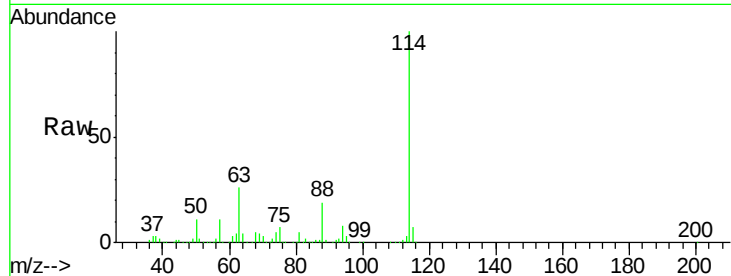
88 18.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

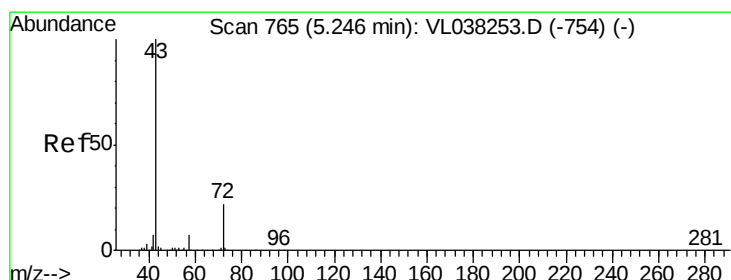
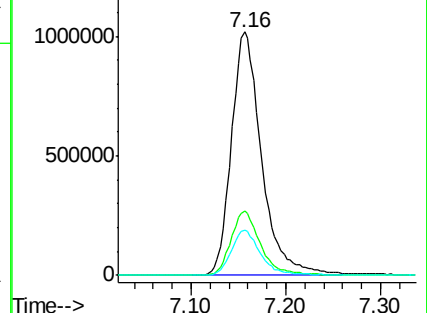
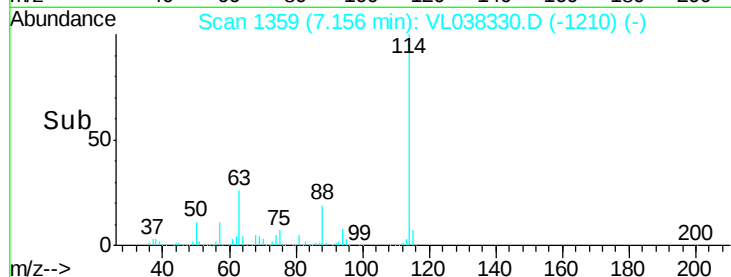
Supervised By :Mahesh Dadoda 02/04/2022



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.394 ppbv m

RT: 5.23 min Scan# 761

Delta R.T. -0.01 min

Lab File: VL038330.D

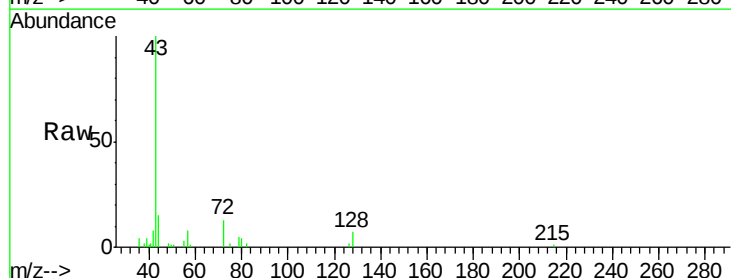
Acq: 3 Feb 2022 12:16

Tgt Ion: 43 Resp: 29132

Ion Ratio Lower Upper

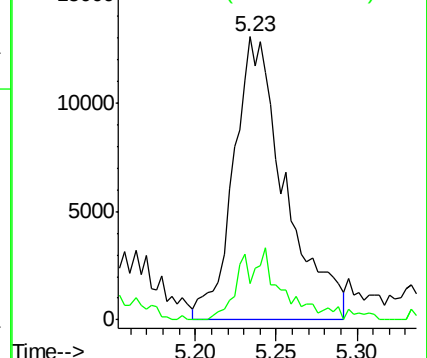
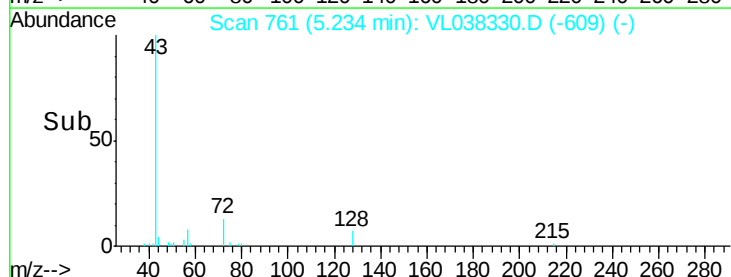
43 100

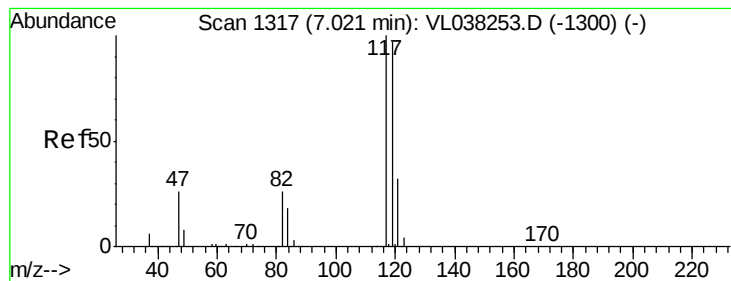
72 0.0 18.1 27.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 12:16

Tgt Ion:1

Ion Ratio

117 100

119 88.

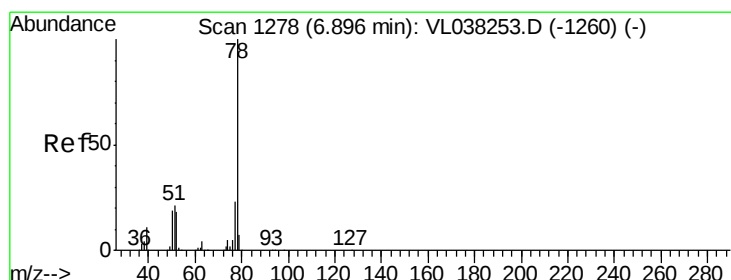
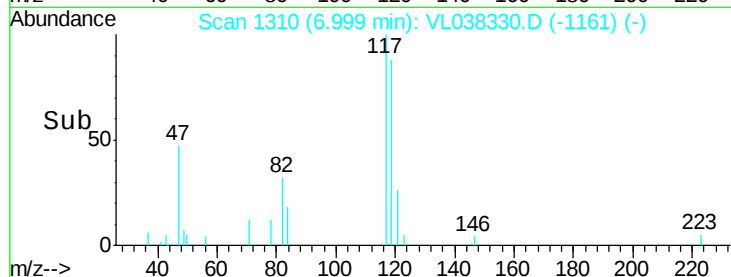
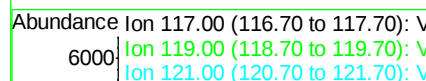
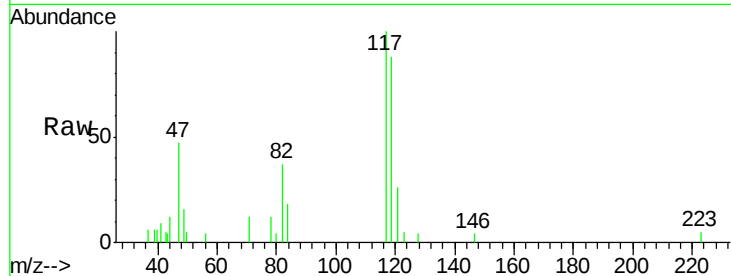
121 25.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#36

Benzene

Concen: 0.844 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL038330.D

Acq: 3 Feb 2022 12:16

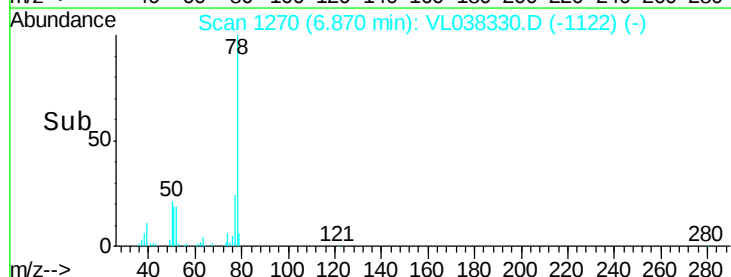
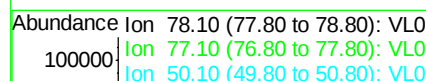
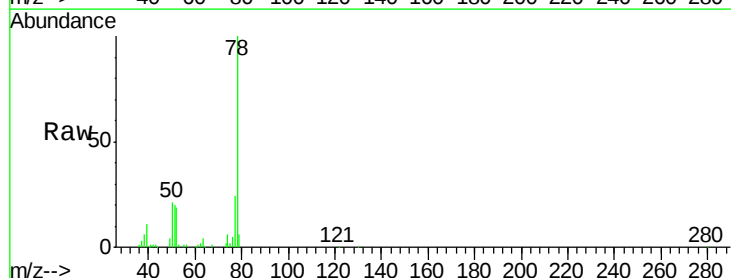
Tgt Ion: 78 Resp: 168607

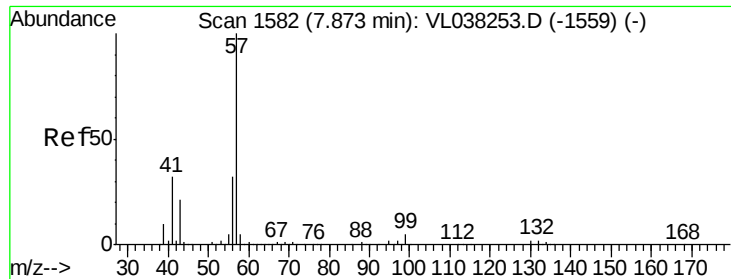
Ion Ratio Lower Upper

78 100

77 23.6 18.2 27.2

50 20.5 15.1 22.7





#44

2,2,4-Trimethylpentane

Concen: 0.388 ppbv

RT: 7.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Feb 2022 12:16

Tgt Ion:

Ion Ratio

57 100

41 40.

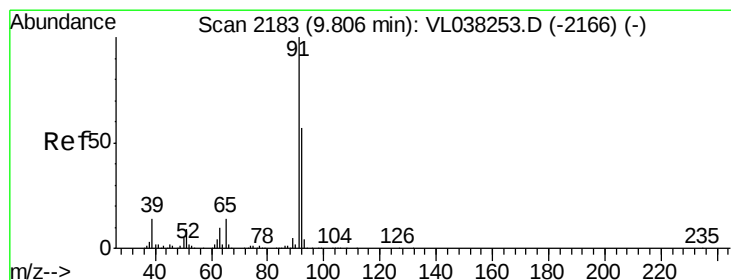
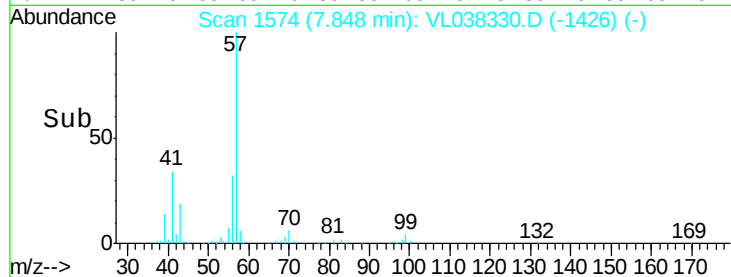
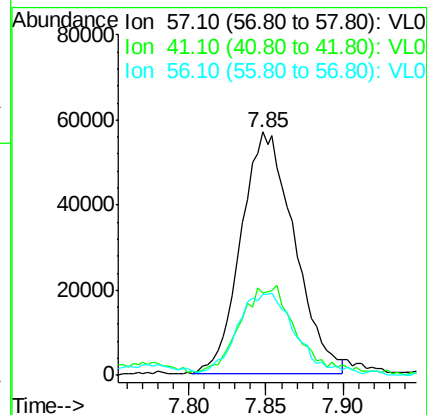
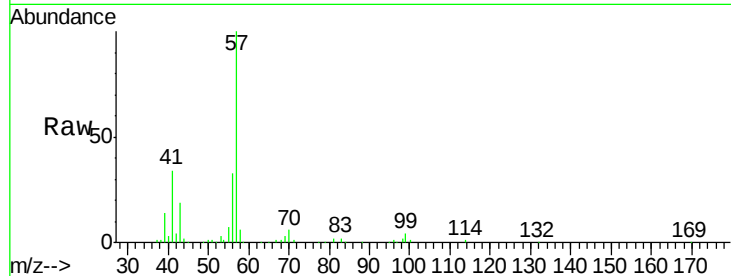
56 38.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#53

Toluene

Concen: 1.301 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.02 min

Lab File: VL038330.D

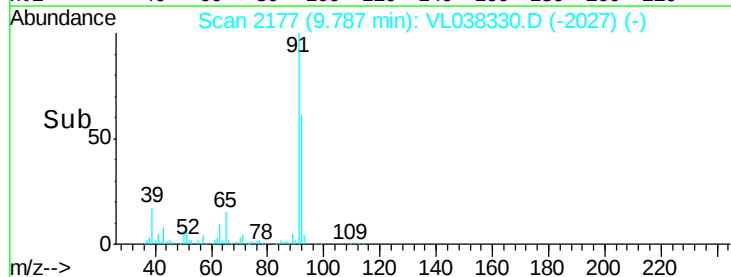
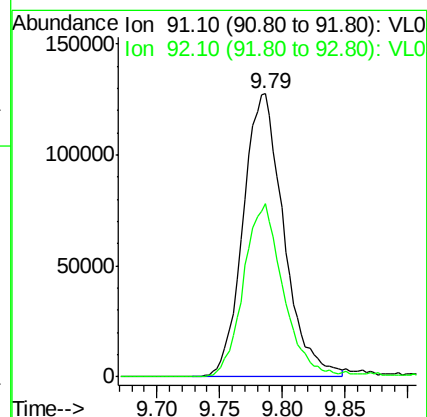
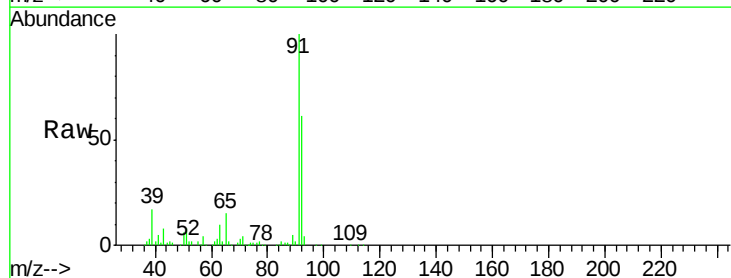
Acq: 3 Feb 2022 12:16

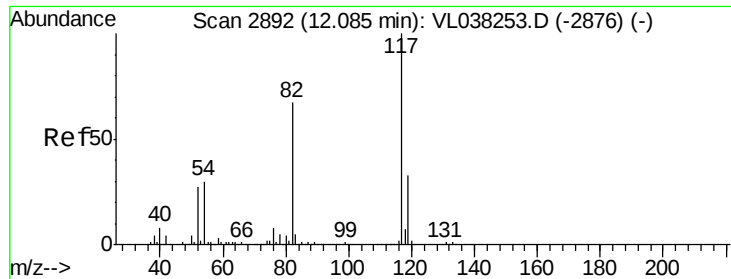
Tgt Ion: 91 Resp: 287838

Ion Ratio Lower Upper

91 100

92 60.6 47.4 71.0



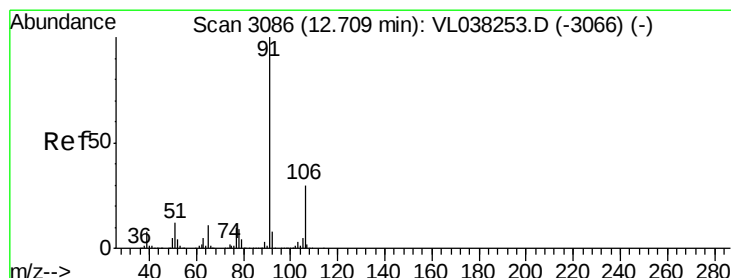
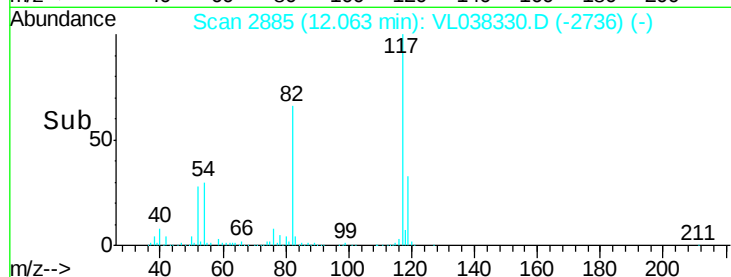
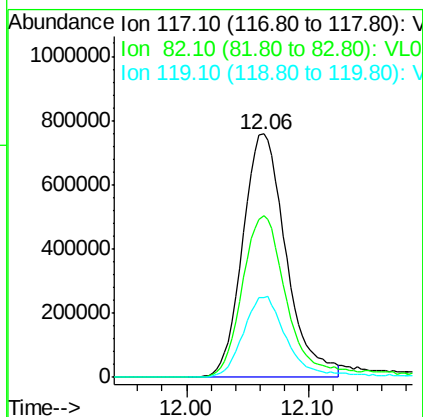
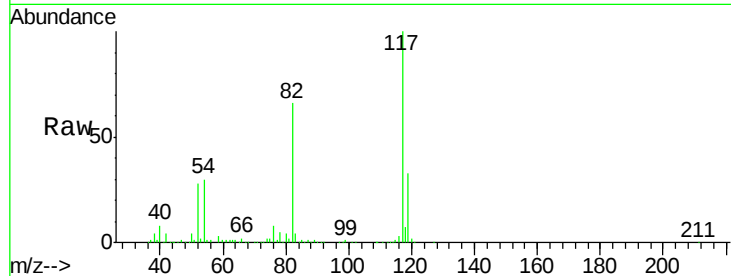


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:16

Tgt Ion: 117
Ion Ratio: 100
117 100
82 73.1
119 35.1

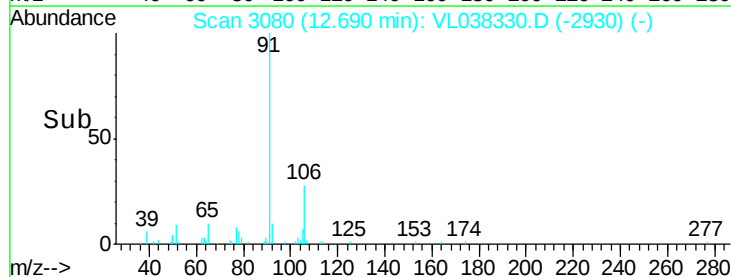
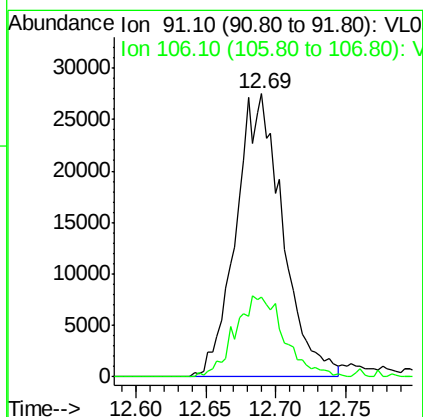
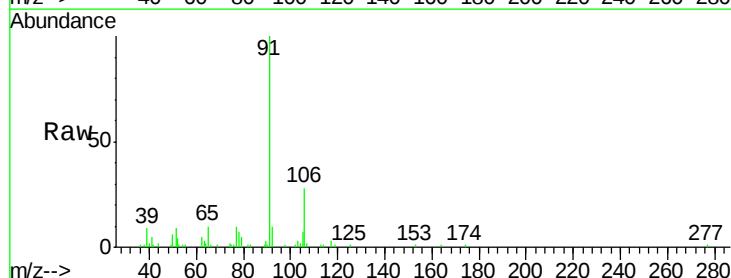
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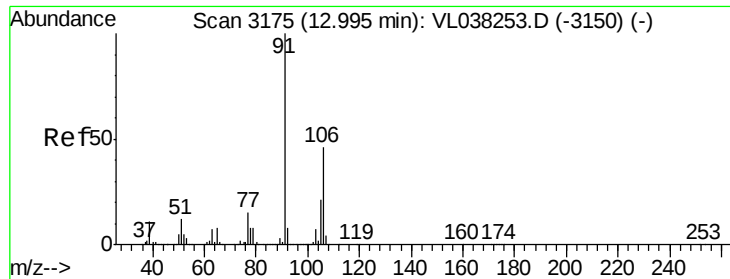
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#58
Ethyl Benzene
Concen: 0.234 ppbv m
RT: 12.69 min Scan# 3080
Delta R.T. -0.02 min
Lab File: VL038330.D
Acq: 3 Feb 2022 12:16

Tgt Ion: 91 Resp: 63846
Ion Ratio Lower Upper
91 100
106 28.4 24.1 36.1



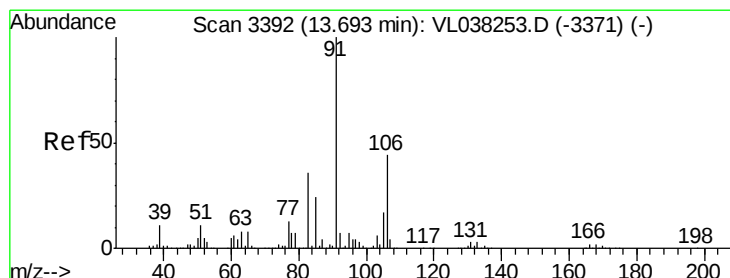
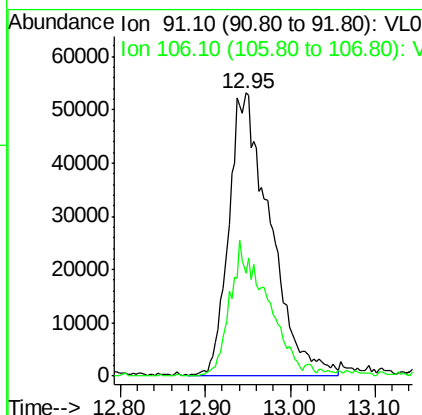
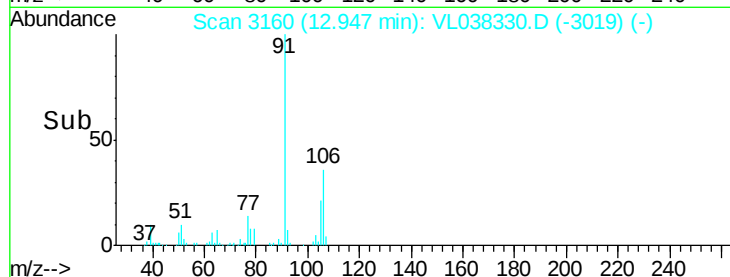
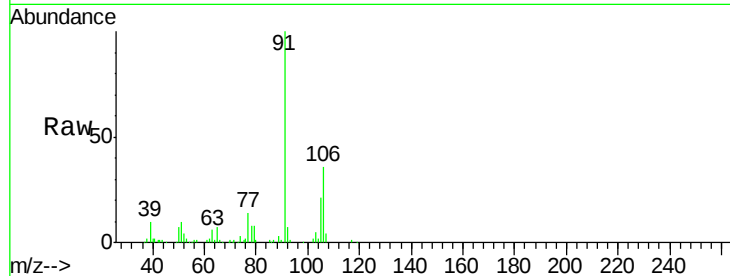


#59
m/p-Xylene
Concen: 0.772 ppbv m
RT: 12.95
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Feb 2022 12:16

Tgt Ion:
Ion Ratio
91 100
106 0.

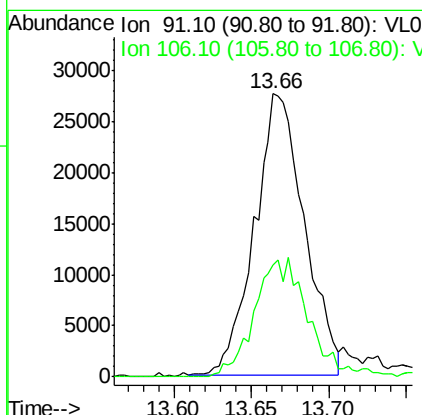
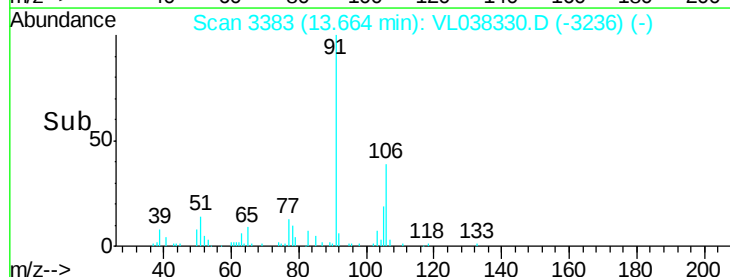
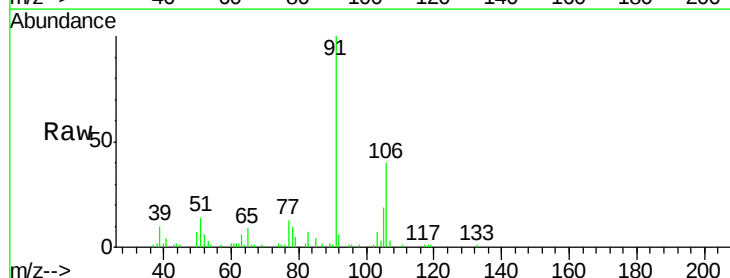
Manual Integrations
APPROVED

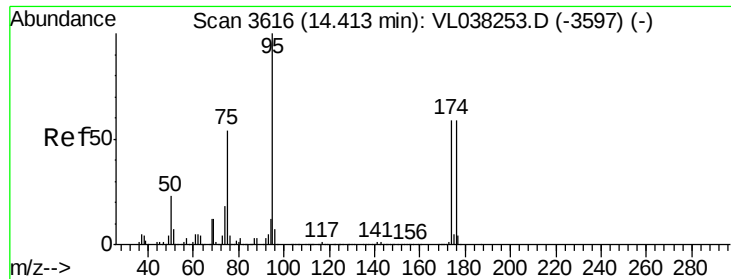
Reviewed By :Semsettin Yesilyurt 02/04/2022
Supervised By :Mahesh Dadoda 02/04/2022



#60
o-Xylene
Concen: 0.285 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.03 min
Lab File: VL038330.D
Acq: 3 Feb 2022 12:16

Tgt Ion: 91 Resp: 61746
Ion Ratio Lower Upper
91 100
106 45.4 22.2 66.6



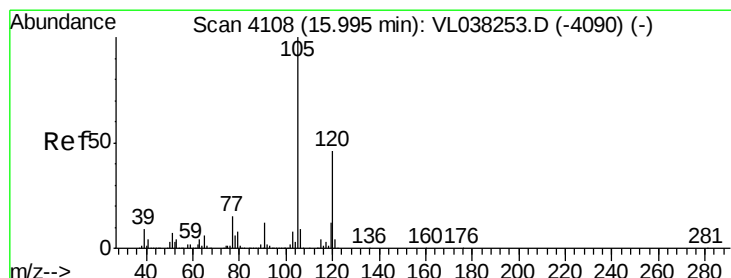
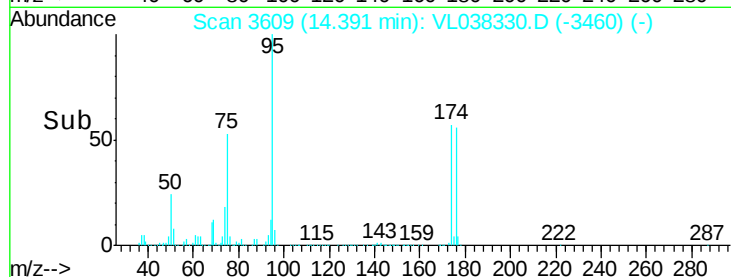
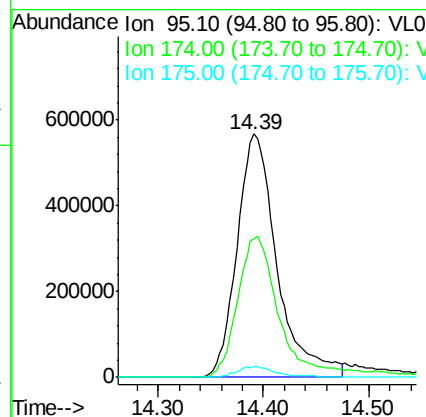
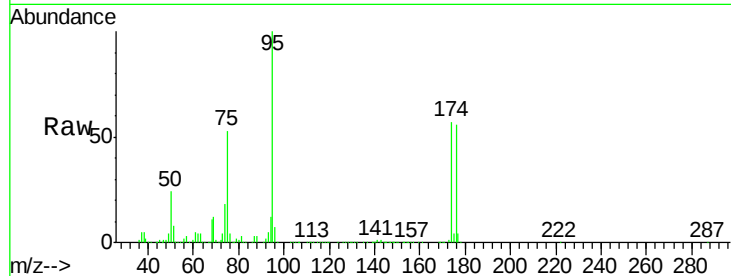


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.641 ppbv
 RT: 14.39 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Feb 2022 12:16

Tgt Ion:
 Ion Ratio
 95 100
 174 63.
 175 4.

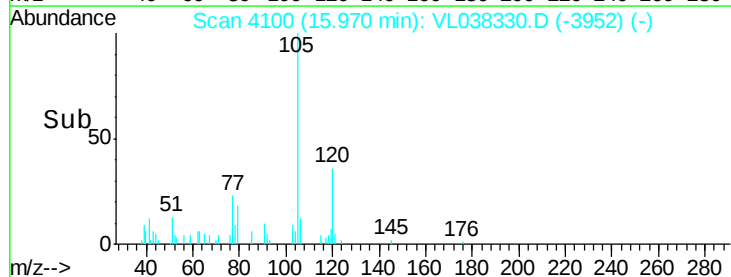
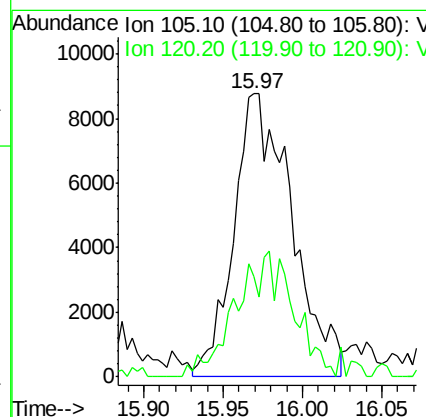
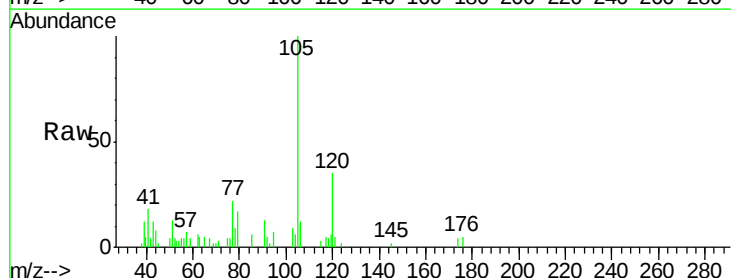
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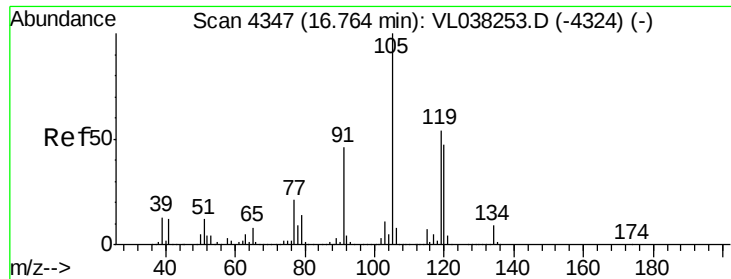
Reviewed By :Semsettin Yesilyurt 02/04/2022
 Supervised By :Mahesh Dadoda 02/04/2022



#73
 1,3,5-Trimethylbenzene
 Concen: 0.109 ppbv m
 RT: 15.97 min Scan# 4100
 Delta R.T. -0.03 min
 Lab File: VL038330.D
 Acq: 3 Feb 2022 12:16

Tgt Ion:105 Resp: 22259
 Ion Ratio Lower Upper
 105 100
 120 35.4 36.6 55.0#





#74

1,2,4-Trimethylbenzene

Concen: 0.307 ppbv m

RT: 16.74

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Feb 2022 12:16

Tgt Ion:1

Ion Ratio

105 100

120 39.

91 12.

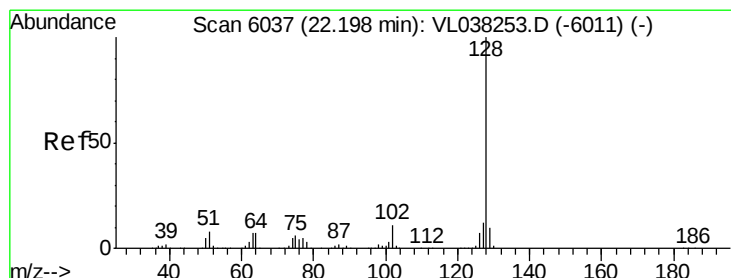
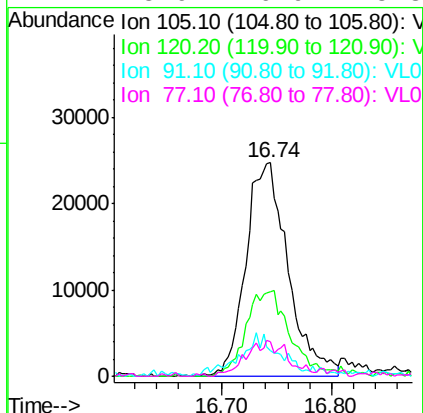
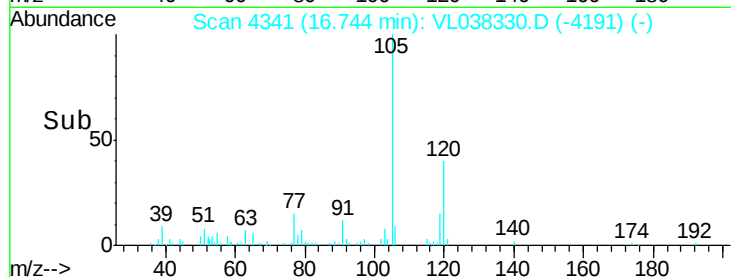
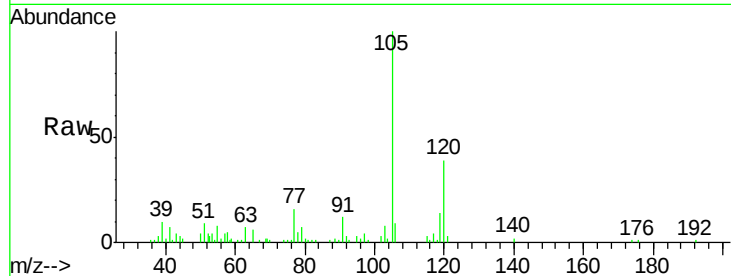
77 15.9 16.9 25.3#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2022

Supervised By :Mahesh Dadoda 02/04/2022



#79

Naphthalene

Concen: 0.244 ppbv m

RT: 22.18 min Scan# 6030

Delta R.T. -0.02 min

Lab File: VL038330.D

Acq: 3 Feb 2022 12:16

Tgt Ion:128 Resp: 24537

Ion Ratio Lower Upper

128 100

127 15.0 9.7 14.5#

129 11.7 8.1 12.1

