

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020122\
 Data File : VL038321.D
 Acq On : 1 Feb 2022 14:47
 Operator : SY/AP
 Sample : N1341-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/07/2022
 Supervised By : Mahesh Dadoda 02/07/2022

Quant Time: Feb 02 06:15:29 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	5.63	49	820564	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	2389193	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	1999830	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1639815	10.80	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.97	51	35492	0.217	ppbv	93
4) Chloromethane	3.12	50	20956	0.373	ppbv	94
5) Vinyl Chloride	3.24	62	4329	0.077	ppbv	96
9) Propene	3.01	41	3538196m	66.537	ppbv	
10) Heptane	8.08	43	156487	1.144	ppbv	98
11) Trichlorofluoromethane	3.93	101	38095	0.280	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.45	101	14847m	0.144	ppbv	
13) Ethanol	3.58	45	175074	30.668	ppbv	98
15) Acetone	3.83	43	871906	12.054	ppbv #	77
17) tert-Butyl alcohol	4.27	59	126066	1.588	ppbv #	1
19) Isopropyl Alcohol	3.95	45	55097m	1.218	ppbv	
20) Methylene Chloride	4.32	84	38777	0.922	ppbv	99
26) Hexane	5.65	57	524957	5.573	ppbv #	43
27) Carbon Disulfide	4.52	76	87634	0.795	ppbv #	90
29) Chloroform	5.72	83	17722m	0.115	ppbv	
30) Cyclohexane	7.09	84	90545	1.104	ppbv #	65
32) 1,1,1-Trichloroethane	6.47	97	17710m	0.115	ppbv	
34) 2-Butanone	5.21	43	138681	1.775	ppbv	97
35) Carbon Tetrachloride	6.97	117	14726m	0.088	ppbv	
36) Benzene	6.85	78	226501	1.072	ppbv	98
38) Trichloroethene	7.79	130	7171m	0.091	ppbv	
41) Tetrahydrofuran	6.03	42	10187m	0.194	ppbv	
52) Tetrachloroethene	11.19	164	13126m	0.180	ppbv	
53) Toluene	9.76	91	426620	1.824	ppbv	97
58) Ethyl Benzene	12.67	91	87182	0.297	ppbv	93
59) m/p-Xylene	12.92	91	230894m	0.921	ppbv	
60) o-Xylene	13.64	91	93444m	0.401	ppbv	
64) n-propylbenzene	15.51	120	9462m	0.127	ppbv	
69) p-Isopropyltoluene	17.61	119	517768	1.899	ppbv	98
72) 4-Ethyltoluene	15.80	105	42725m	0.175	ppbv	
73) 1,3,5-Trimethylbenzene	15.95	105	48867m	0.223	ppbv	
74) 1,2,4-Trimethylbenzene	16.72	105	111570m	0.483	ppbv	
79) Naphthalene	22.14	128	31602m	0.293	ppbv	

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

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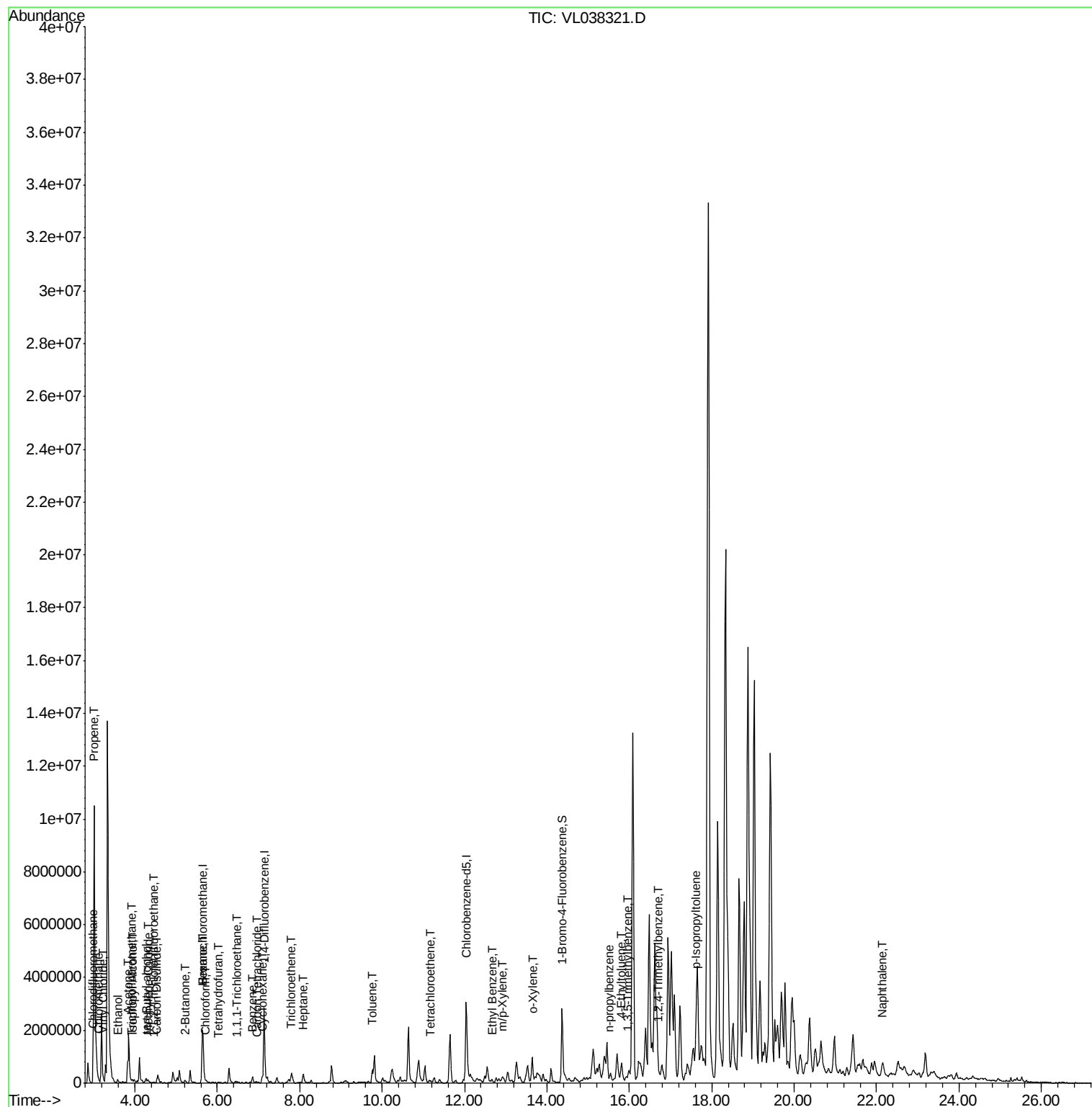
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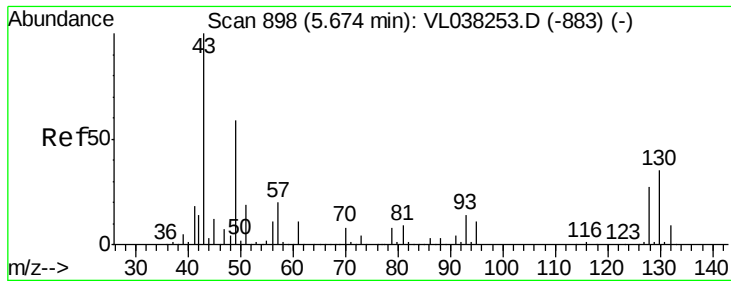
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 1 Feb 2022 14:47

Tgt Ion:

Ion Ratio

49 100

128 49.

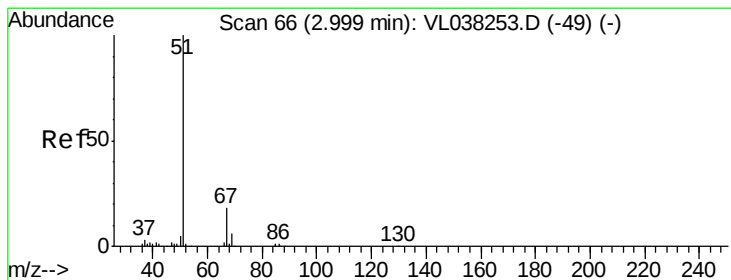
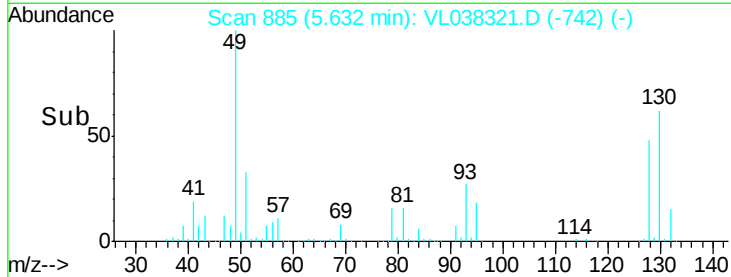
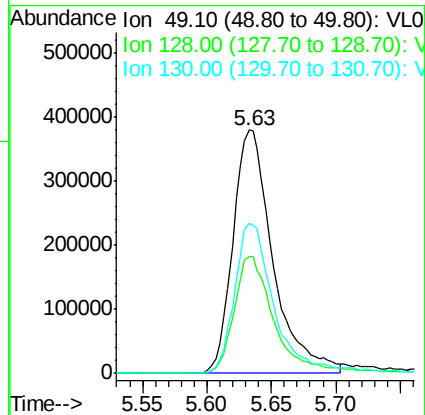
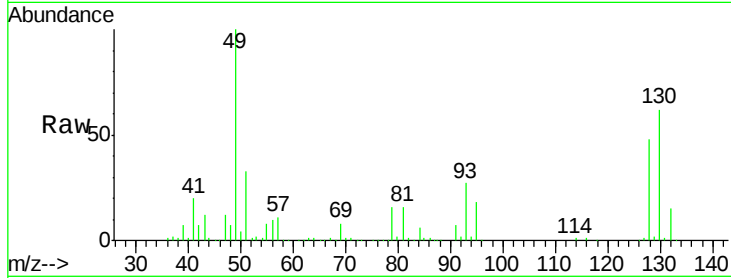
130 62.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#3

Chlorodifluoromethane

Concen: 0.217 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.03 min

Lab File: VL038321.D

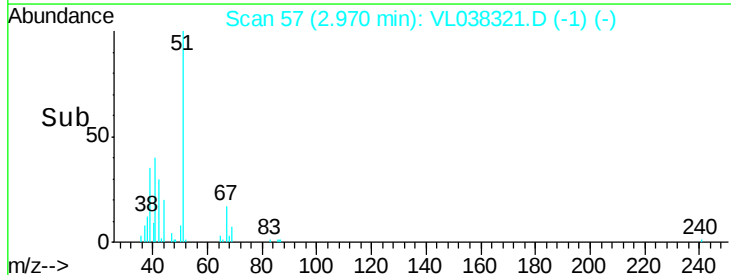
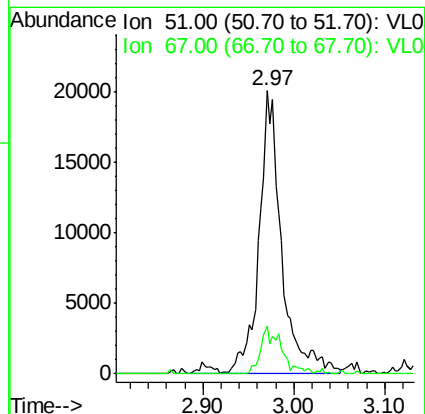
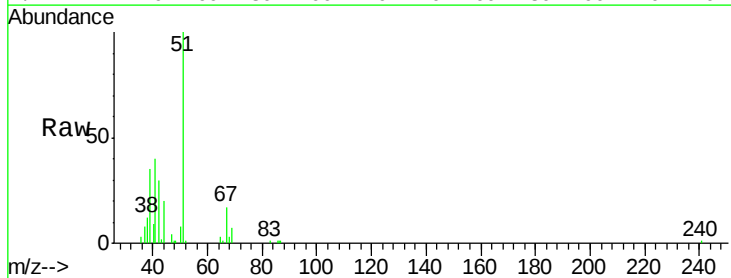
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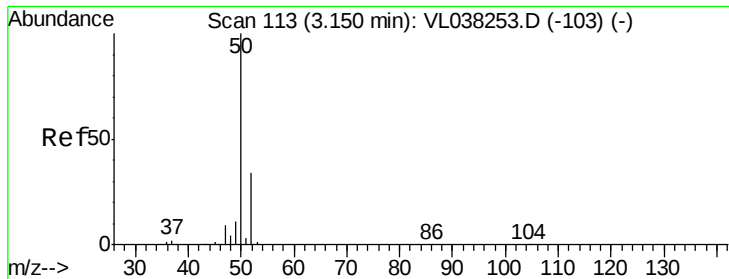
Tgt Ion: 51 Resp: 35492

Ion Ratio Lower Upper

51 100

67 14.9 14.4 21.6





#4

Chloromethane

Concen: 0.373 ppbv

RT: 3.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 1 Feb 2022 14:47 SVP-2

Tgt Ion:

Ion Ratio

50 100

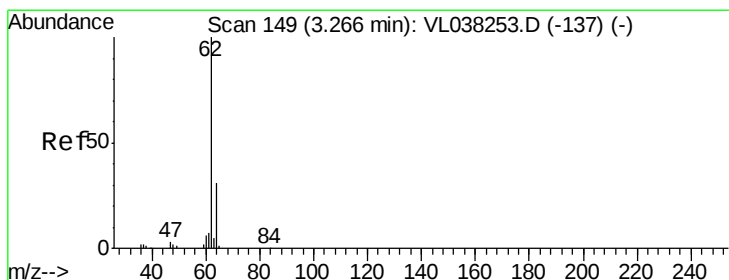
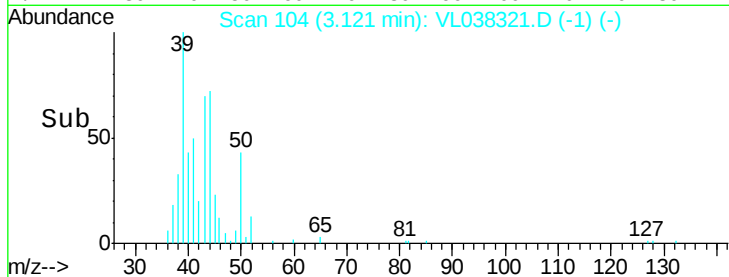
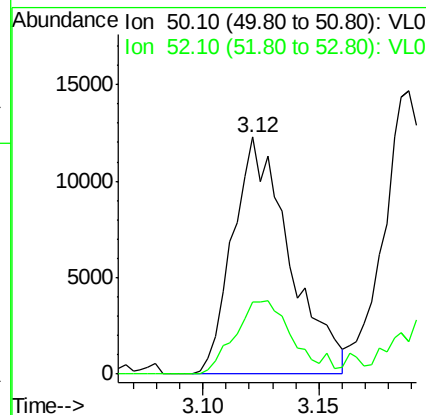
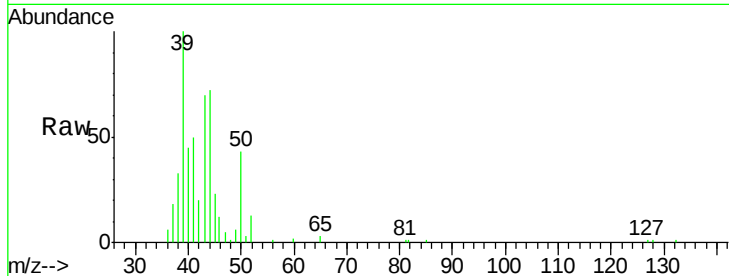
52 30.

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#5

Vinyl Chloride

Concen: 0.077 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.02 min

Lab File: VL038321.D

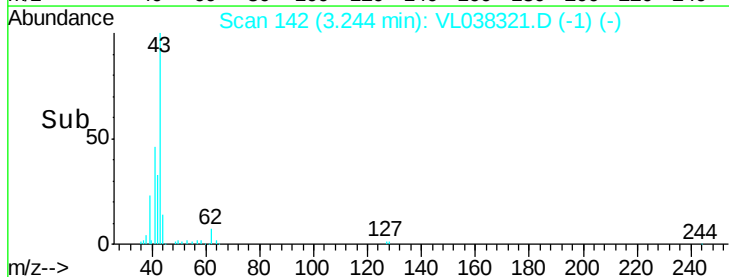
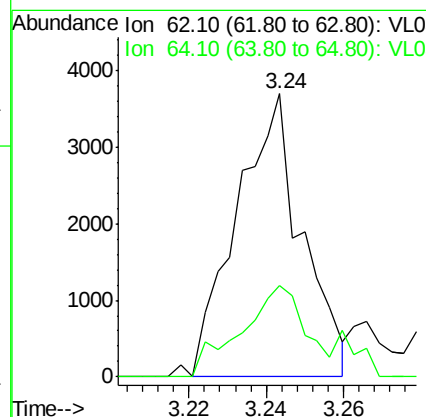
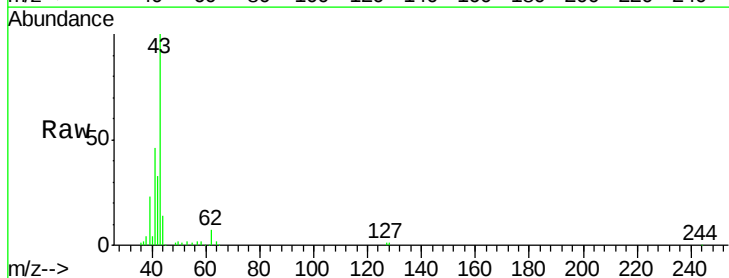
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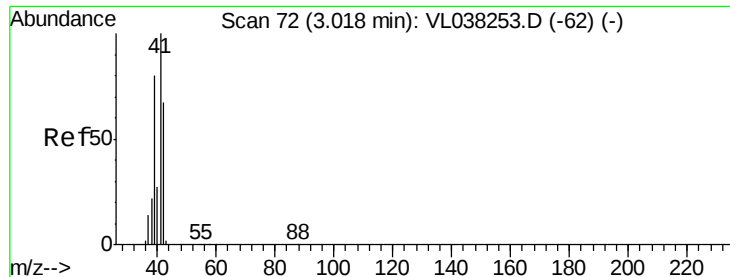
Tgt Ion: 62 Resp: 4329

Ion Ratio Lower Upper

62 100

64 32.4 24.4 36.6





#9

Propene

Concen: 66.537 ppbv m

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 1 Feb 2022 14:47

Tgt Ion:

Ion Ratio

41 100

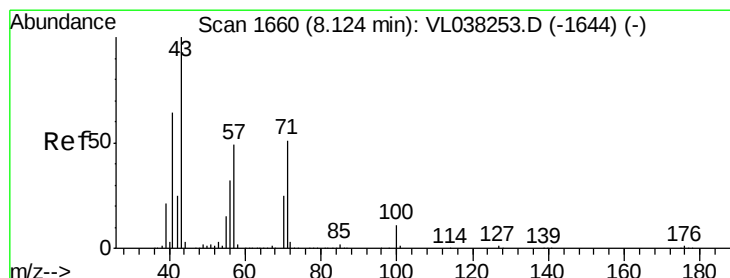
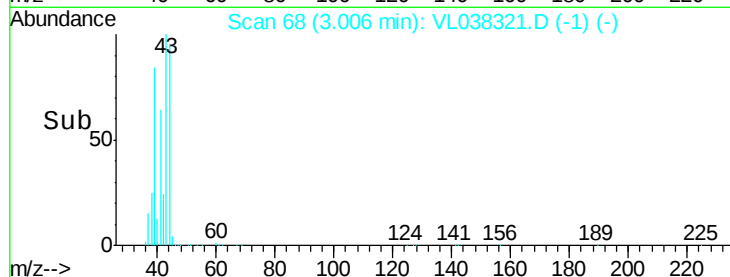
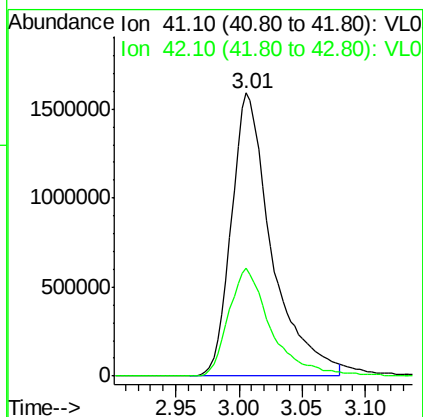
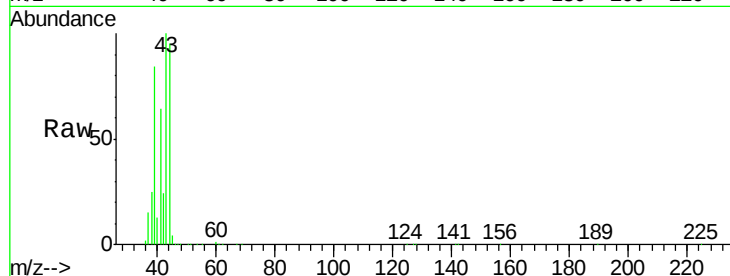
42 17.

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#10

Heptane

Concen: 1.144 ppbv

RT: 8.08 min Scan# 1647

Delta R.T. -0.04 min

Lab File: VL038321.D

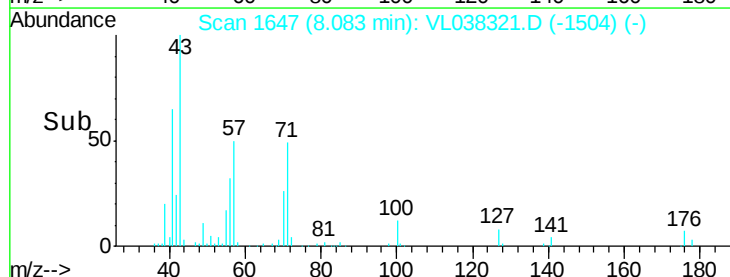
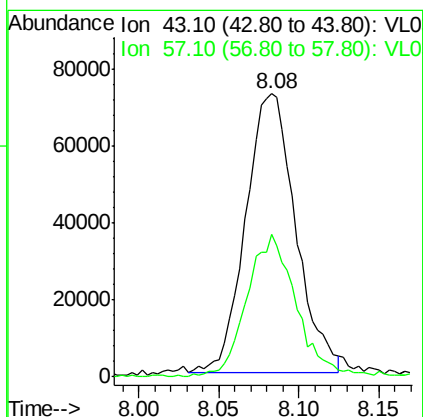
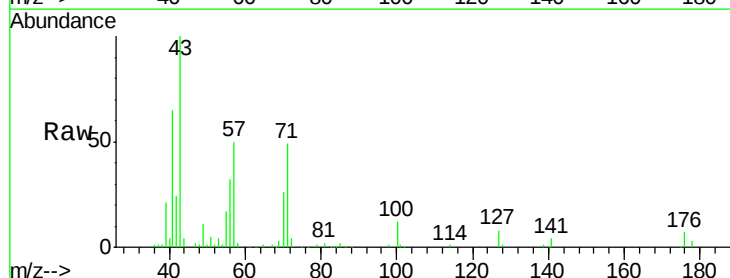
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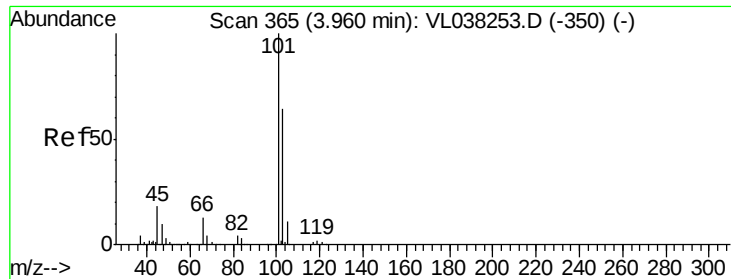
Tgt Ion: 43 Resp: 156487

Ion Ratio Lower Upper

43 100

57 51.0 39.5 59.3



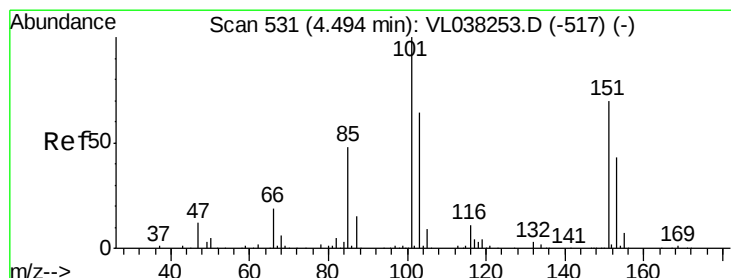
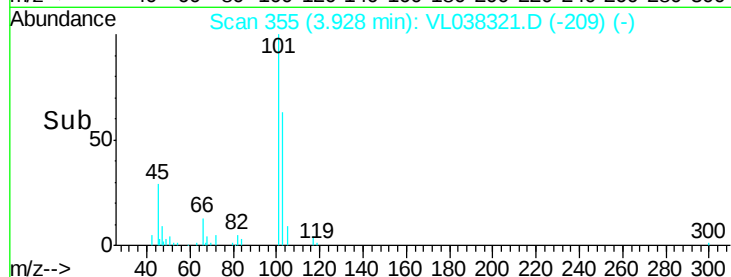
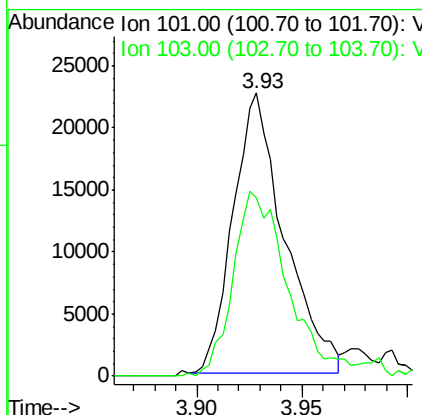
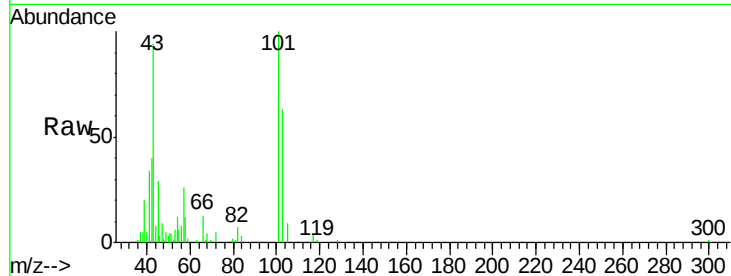


#11
 Trichlorofluoromethane
 Concen: 0.280 ppbv
 RT: 3.93
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SVP-2
 Acq: 1 Feb 2022 14:47

Tgt Ion:1
 Ion Ratio
 101 100
 103 62.

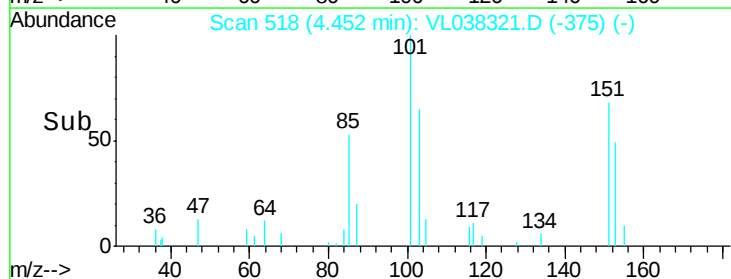
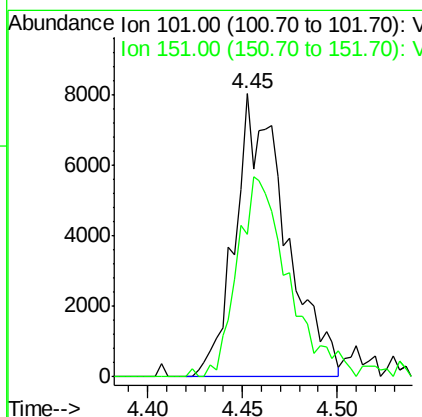
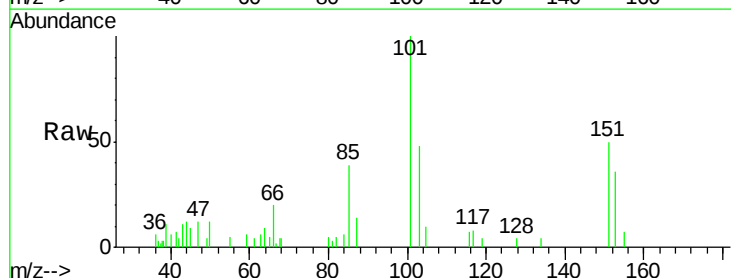
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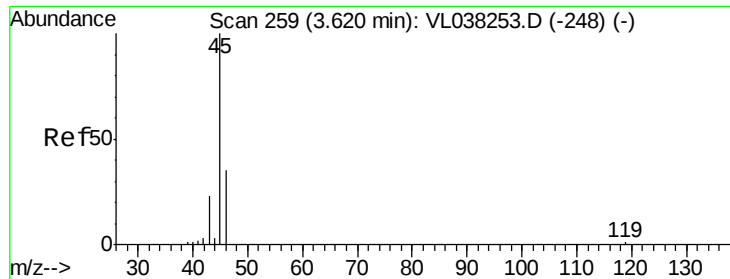
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.144 ppbv m
 RT: 4.45 min Scan# 518
 Delta R.T. -0.04 min
 Lab File: VL038321.D
 Acq: 1 Feb 2022 14:47

Tgt Ion:101 Resp: 14847
 Ion Ratio Lower Upper
 101 100
 151 0.0 55.3 82.9#



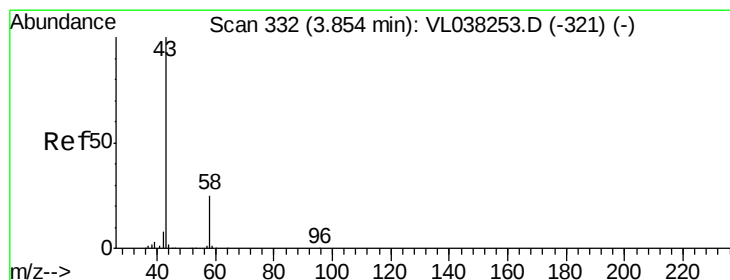
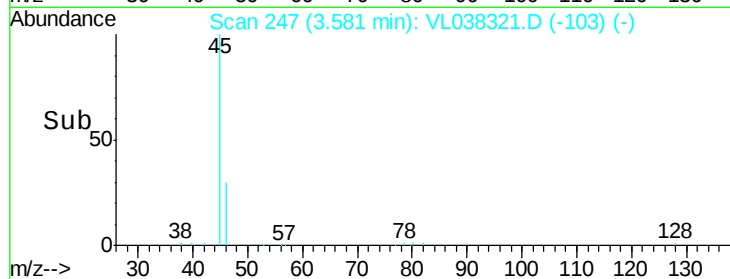
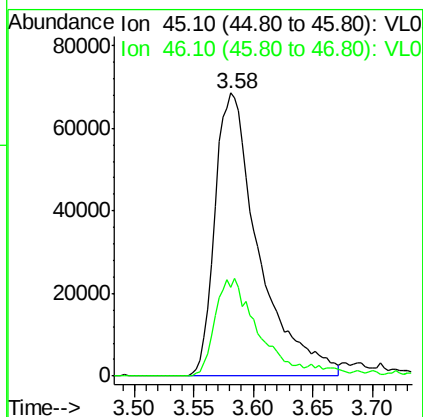
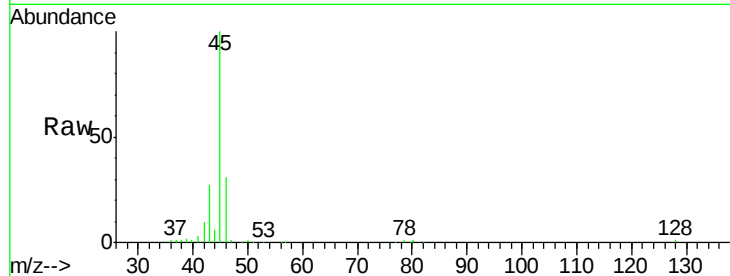


#13
Ethanol
Concen: 30.668 ppbv
RT: 3.58
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 14:47

Tgt Ion:
Ion Ratio
45 100
46 37.

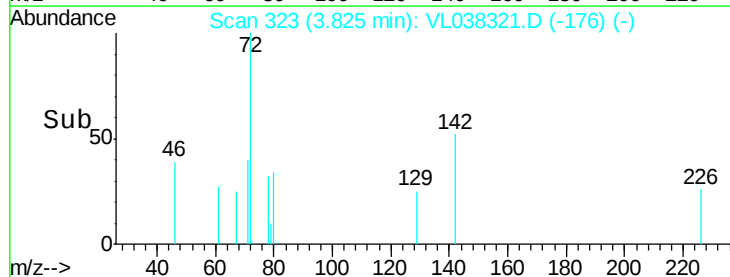
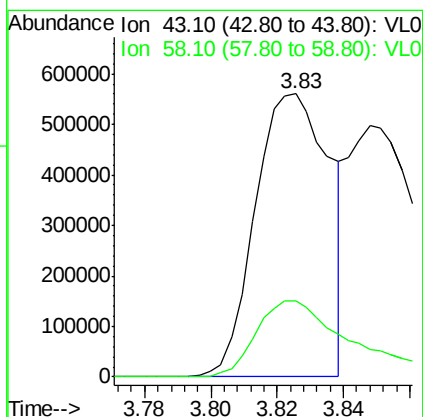
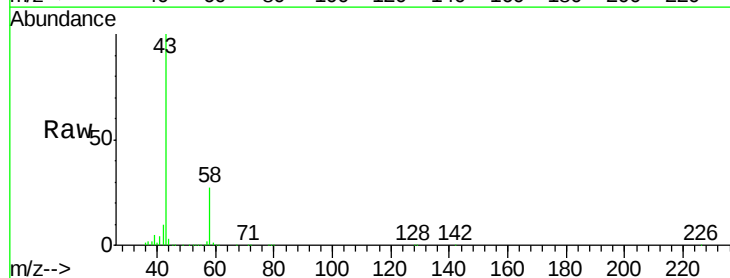
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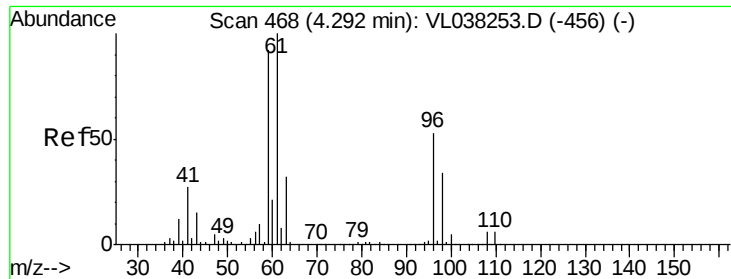
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#15
Acetone
Concen: 12.054 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.03 min
Lab File: VL038321.D
Acq: 1 Feb 2022 14:47

Tgt Ion: 43 Resp: 871906
Ion Ratio Lower Upper
43 100
58 38.6 21.5 32.3#





#17

tert-Butyl alcohol

Concen: 1.588 ppbv

RT: 4.27 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 1 Feb 2022 14:47 SVP-2

Tgt Ion:

Ion Ratio

59 100

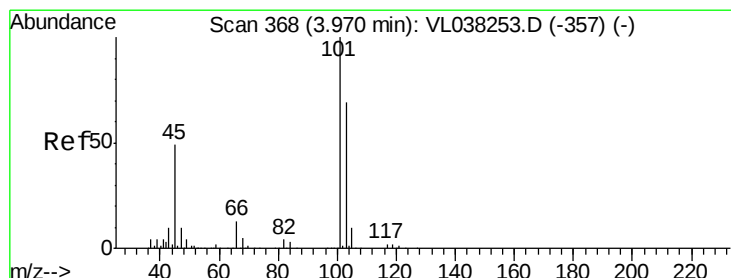
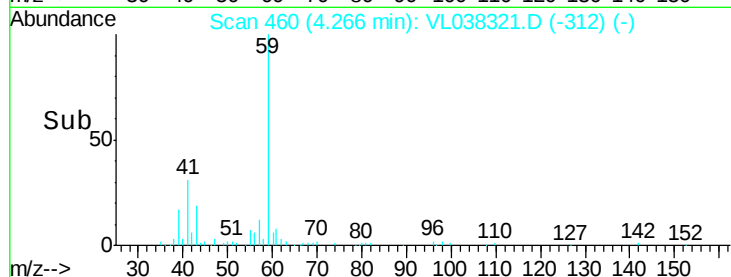
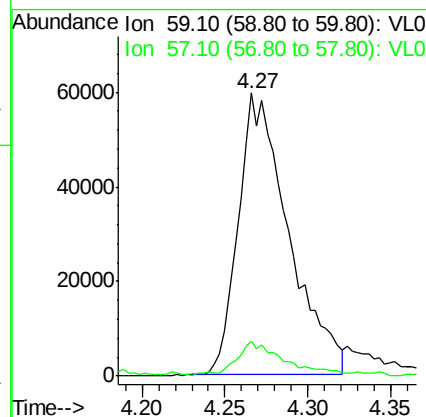
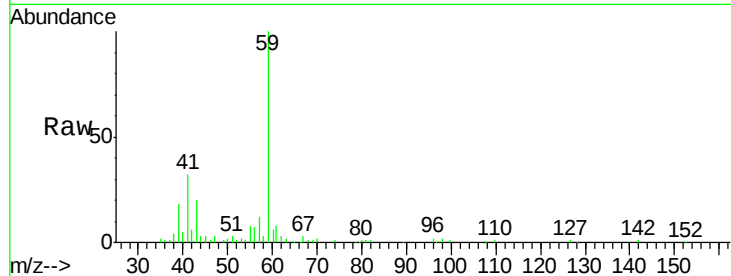
57 72.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#19

Isopropyl Alcohol

Concen: 1.218 ppbv m

RT: 3.95 min Scan# 361

Delta R.T. -0.02 min

Lab File: VL038321.D

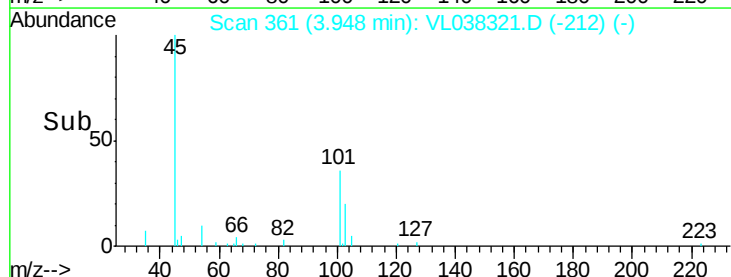
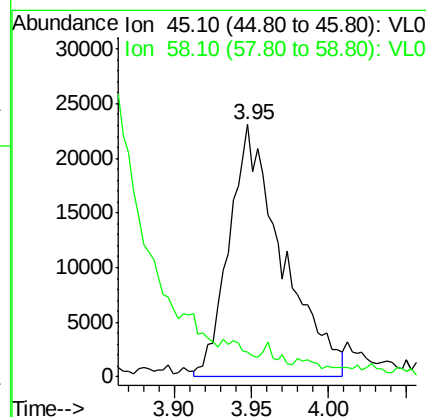
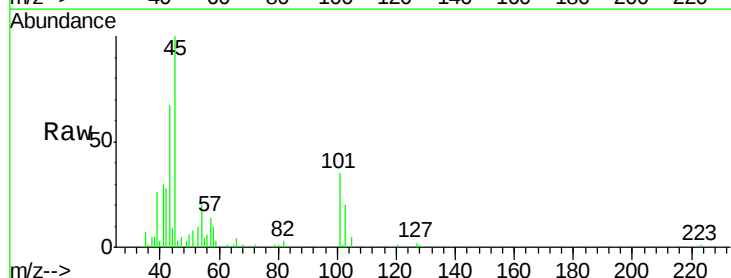
Acq: 1 Feb 2022 14:47

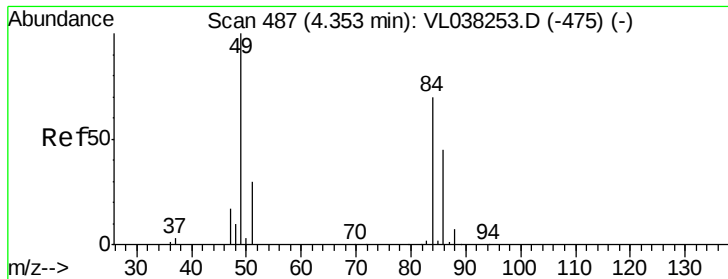
Tgt Ion: 45 Resp: 55097

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#



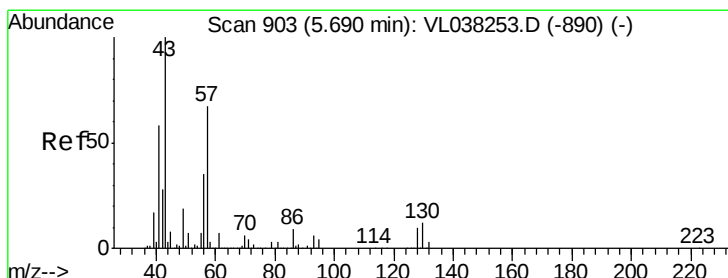
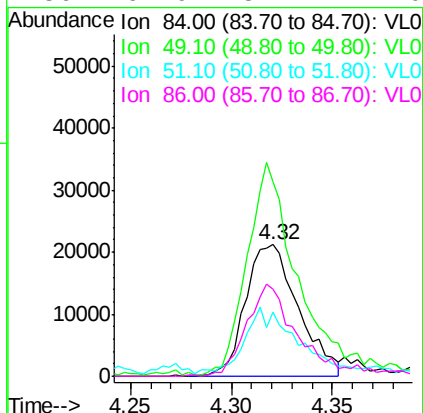
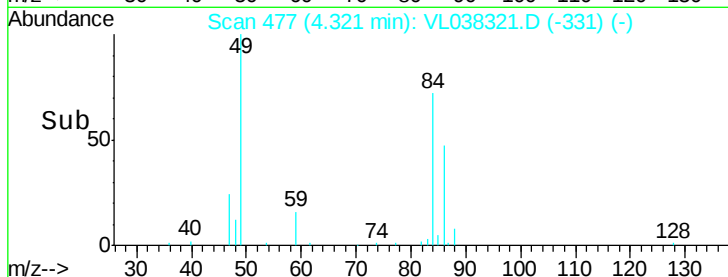
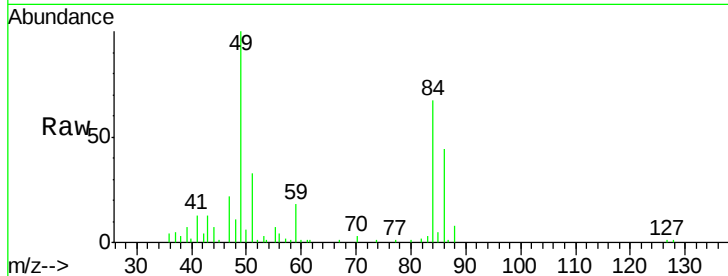


#20
Methylene Chloride
Concen: 0.922 ppbv
RT: 4.32
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 1 Feb 2022 14:47

Tgt Ion:
Ion Ratio
84 100
49 145.
51 43.
86 64.9 51.4 77.0

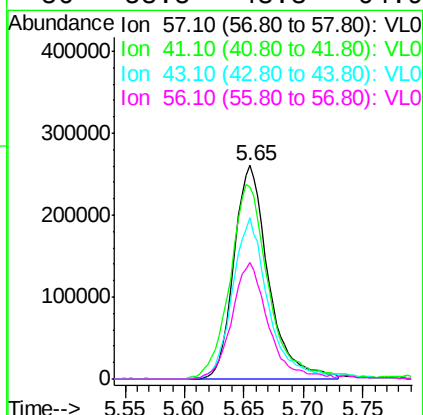
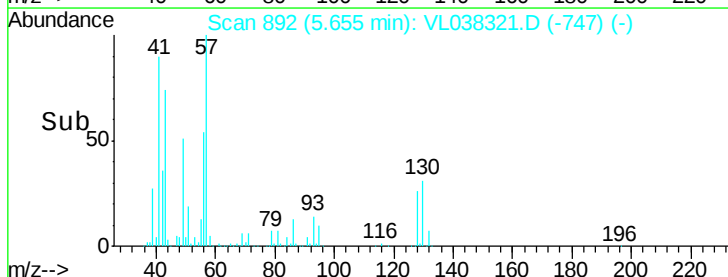
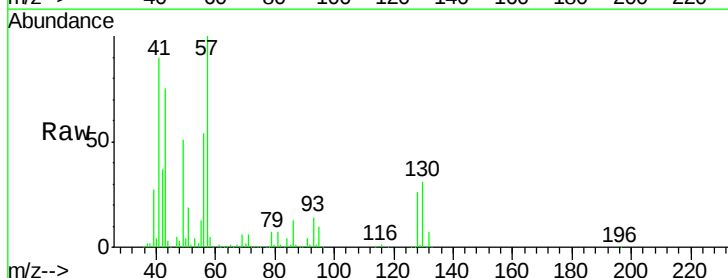
Manual Integrations
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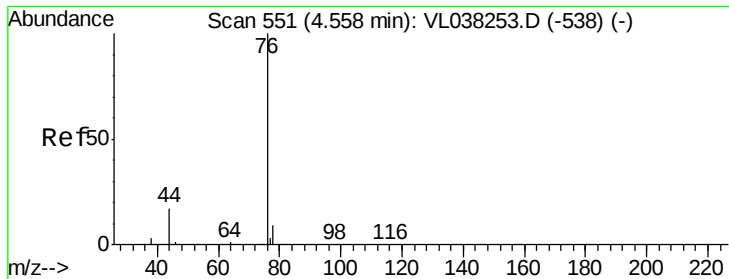
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#26
Hexane
Concen: 5.573 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.04 min
Lab File: VL038321.D
Acq: 1 Feb 2022 14:47

Tgt Ion: 57 Resp: 524957
Ion Ratio Lower Upper
57 100
41 102.6 72.8 109.2
43 79.3 177.0 265.6#
56 58.5 43.3 64.9



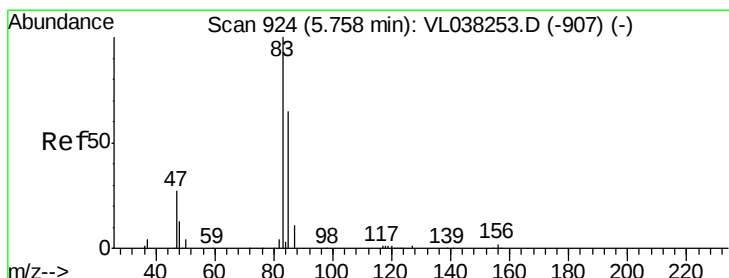
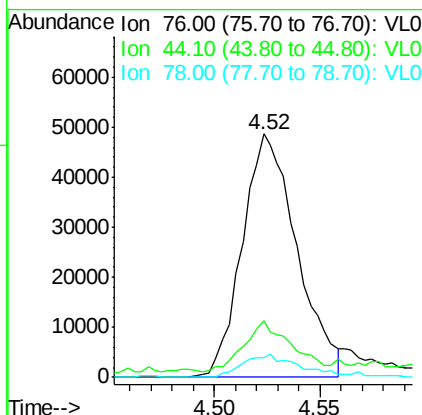
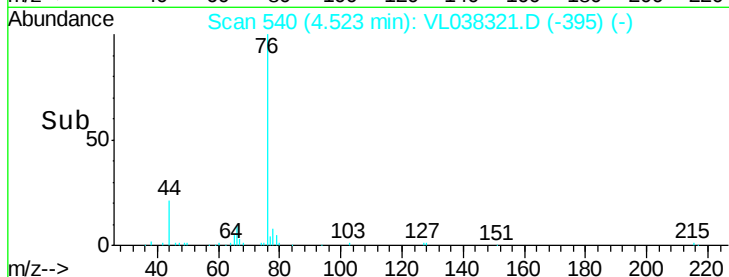
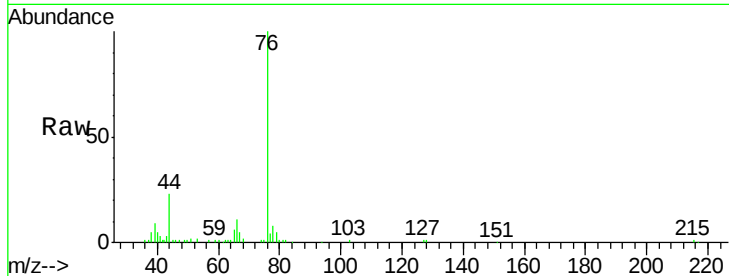


#27
Carbon Disulfide
Concen: 0.795 ppbv
RT: 4.52
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 1 Feb 2022 14:47

Tgt Ion:
Ion Ratio
76 100
44 24.
78 10.

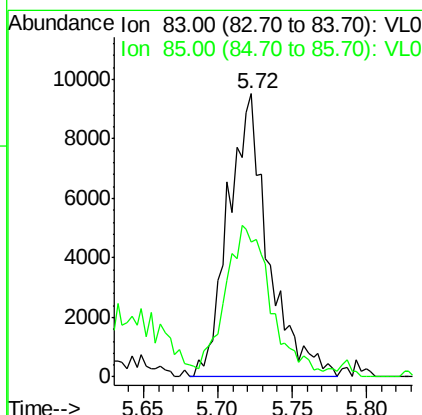
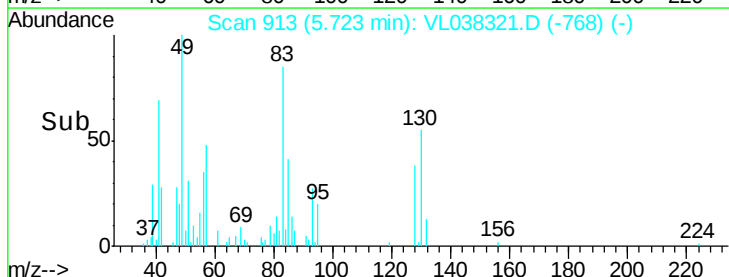
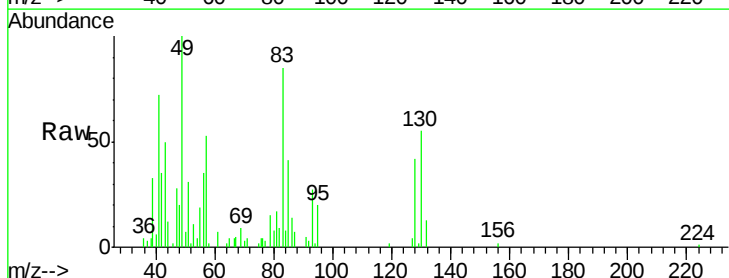
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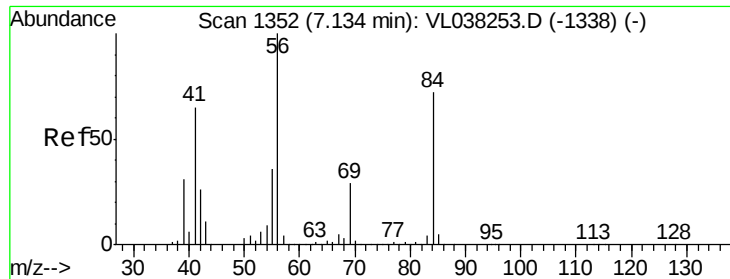
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#29
Chloroform
Concen: 0.115 ppbv m
RT: 5.72 min Scan# 913
Delta R.T. -0.04 min
Lab File: VL038321.D
Acq: 1 Feb 2022 14:47

Tgt Ion: 83 Resp: 17722
Ion Ratio Lower Upper
83 100
85 47.9 51.9 77.9#



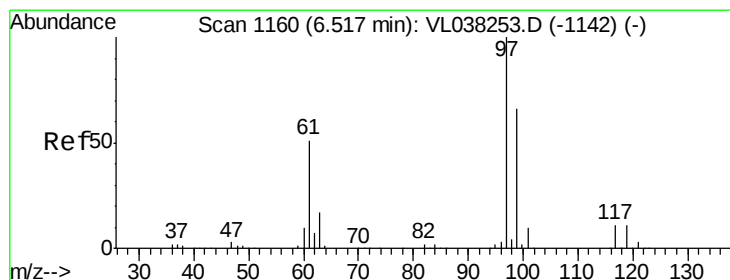
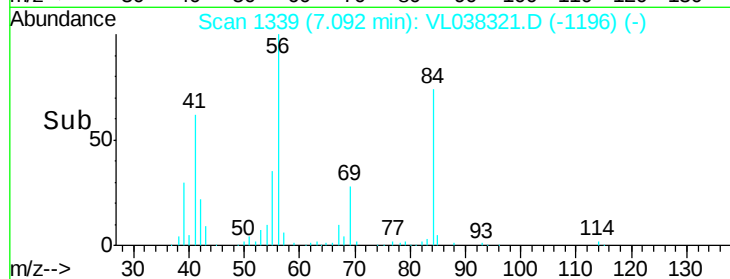
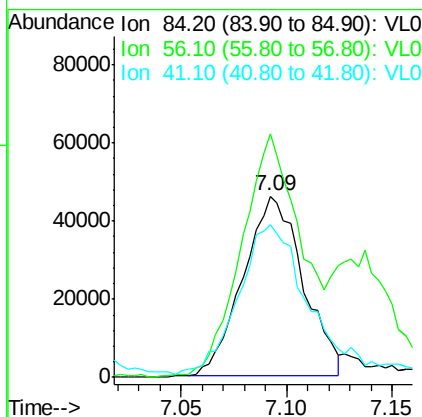
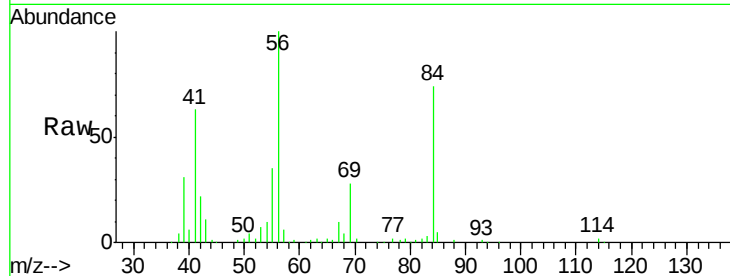


#30
Cyclohexane
Concen: 1.104 ppbv
RT: 7.09
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 1 Feb 2022 14:47

Tgt Ion:
Ion Ratio
84 100
56 202.
41 99.

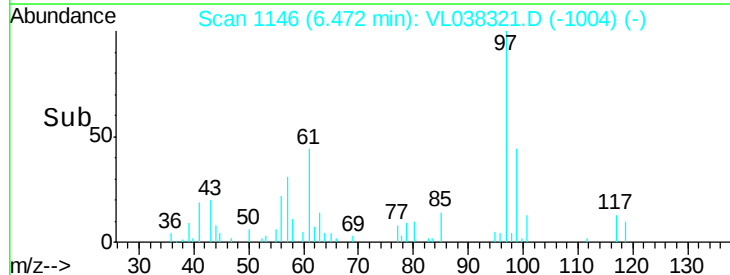
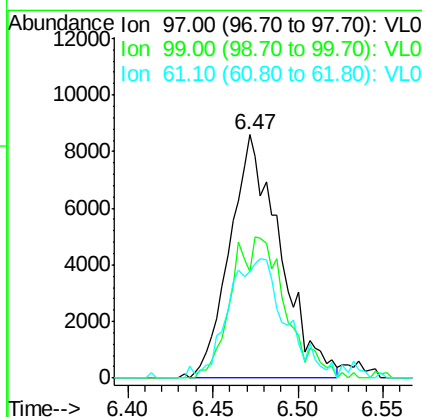
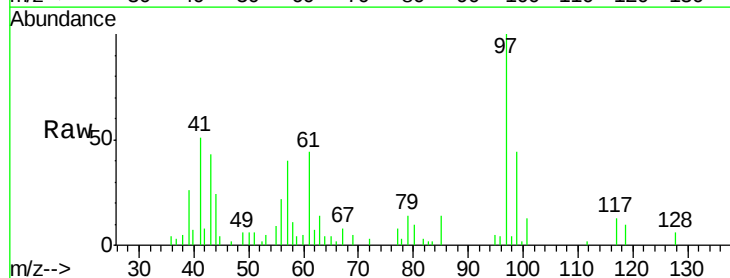
Manual Integrations
APPROVED

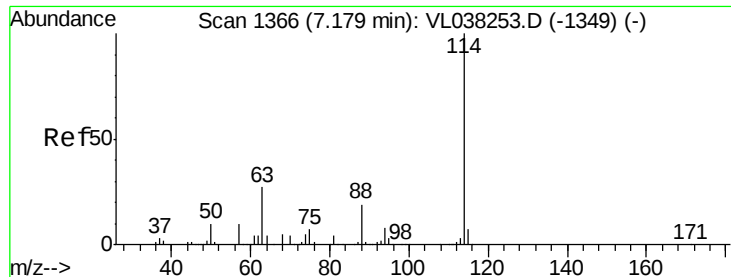
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 6.47 min Scan# 1146
Delta R.T. -0.04 min
Lab File: VL038321.D
Acq: 1 Feb 2022 14:47

Tgt Ion: 97 Resp: 17710
Ion Ratio Lower Upper
97 100
99 63.1 51.5 77.3
61 55.8 40.5 60.7



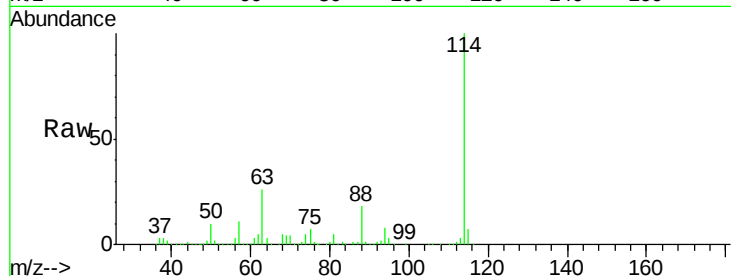


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVP-2
 Acq: 1 Feb 2022 14:47

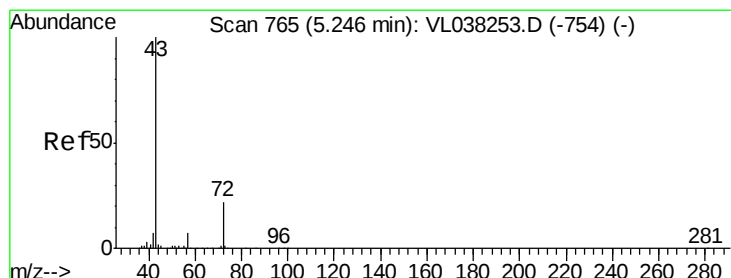
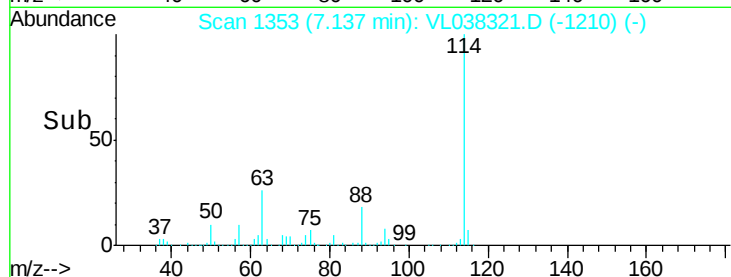
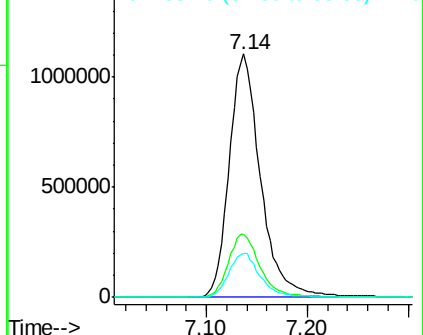
Tgt Ion: 1
 Ion Ratio
 114 100
 63 26.
 88 18.

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 02/07/2022
 Supervised By : Mahesh Dadoda 02/07/2022

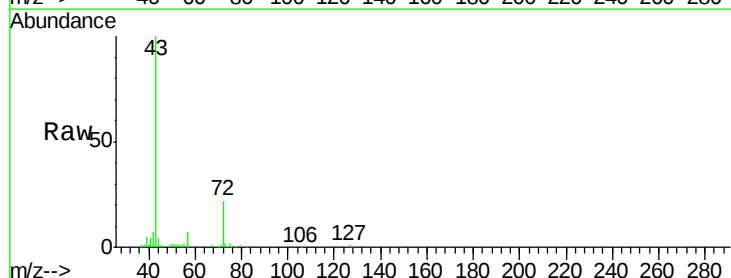


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

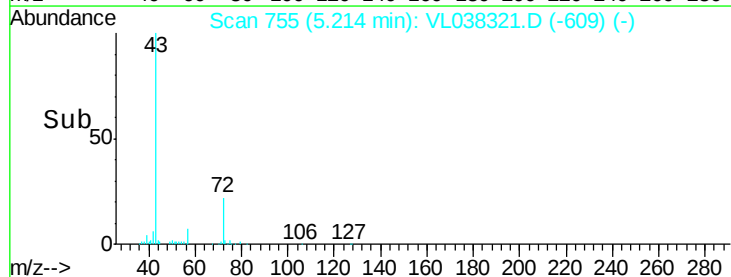
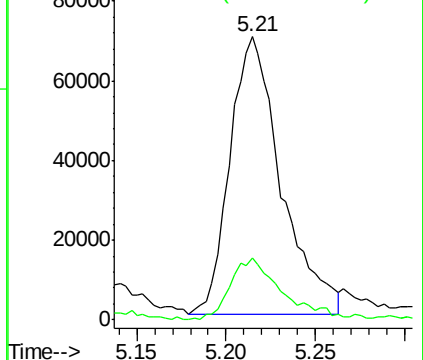


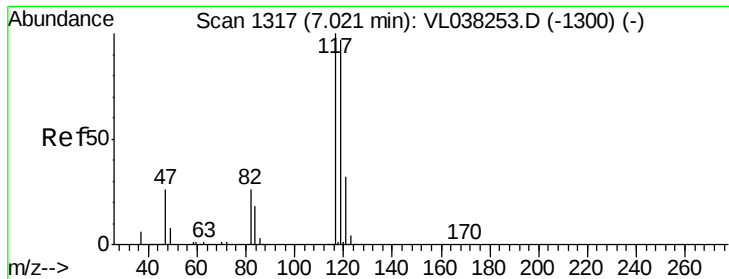
#34
 2-Butanone
 Concen: 1.775 ppbv
 RT: 5.21 min Scan# 755
 Delta R.T. -0.03 min
 Lab File: VL038321.D
 Acq: 1 Feb 2022 14:47

Tgt Ion: 43 Resp: 138681
 Ion Ratio Lower Upper
 43 100
 72 21.4 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: 0.088 ppbv m

RT: 6.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 1 Feb 2022 14:47 SVP-2

Tgt Ion:1

Ion Rati

117 100

119 76.

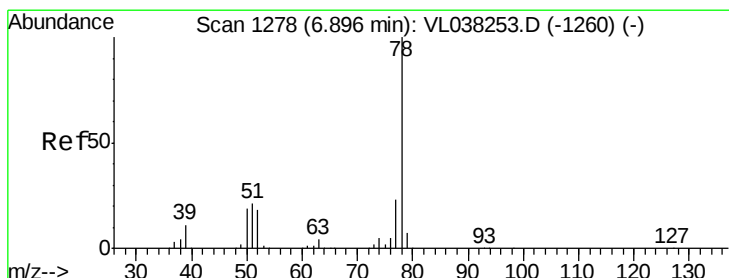
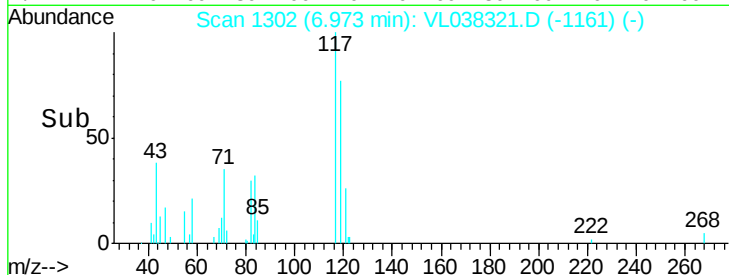
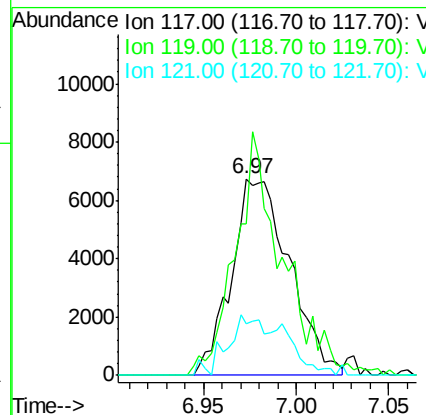
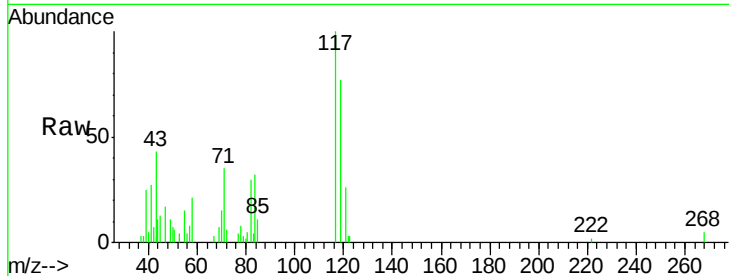
121 25.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#36

Benzene

Concen: 1.072 ppbv

RT: 6.85 min Scan# 1265

Delta R.T. -0.04 min

Lab File: VL038321.D

Acq: 1 Feb 2022 14:47

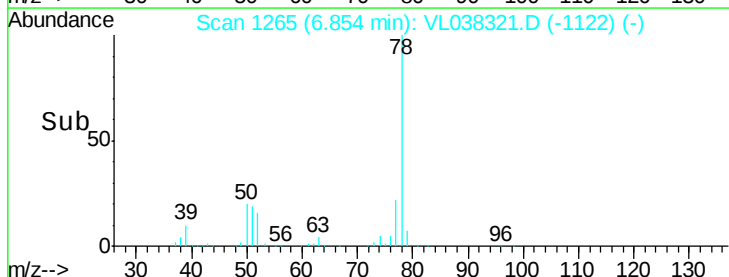
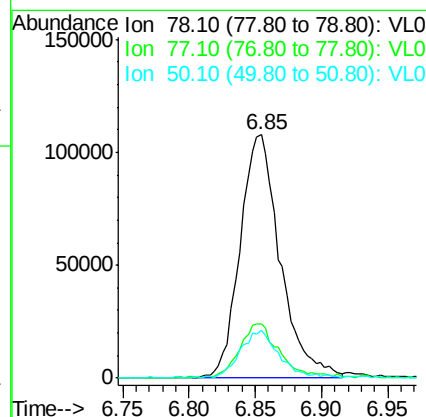
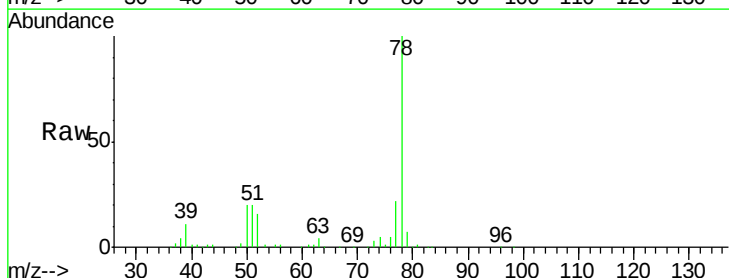
Tgt Ion: 78 Resp: 226501

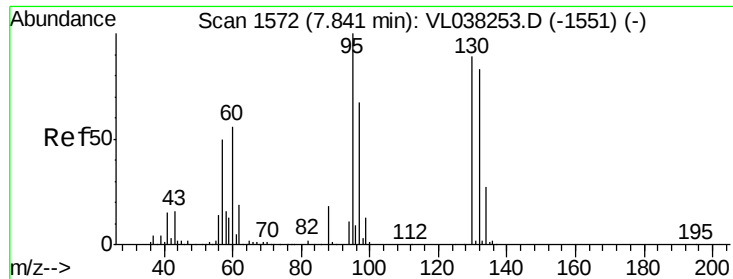
Ion Ratio Lower Upper

78 100

77 21.5 18.2 27.2

50 19.5 15.1 22.7





#38

Trichloroethene

Concen: 0.091 ppbv m

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 1 Feb 2022 14:47 SVP-2

Tgt Ion:1

Ion Ratio

130 100

95 104.

132 75.

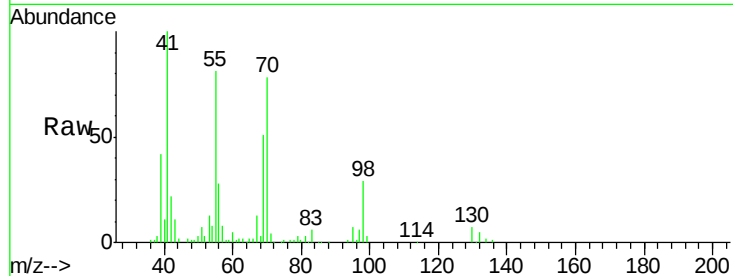
97 85.9 59.6 89.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022

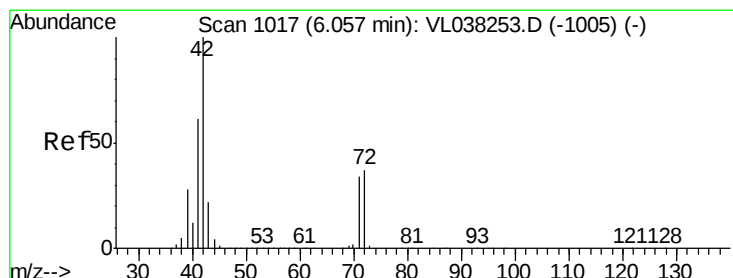
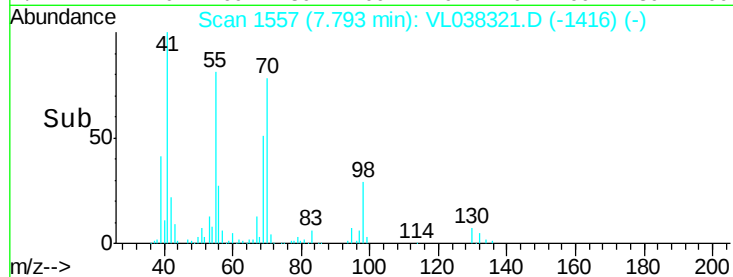
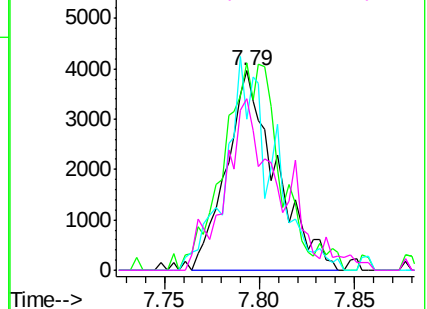


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#41

Tetrahydrofuran

Concen: 0.194 ppbv m

RT: 6.03 min Scan# 1008

Delta R.T. -0.03 min

Lab File: VL038321.D

Acq: 1 Feb 2022 14:47

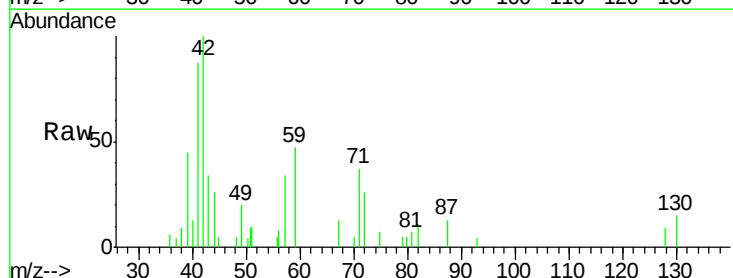
Tgt Ion: 42 Resp: 10187

Ion Ratio Lower Upper

42 100

72 31.8 29.7 44.5

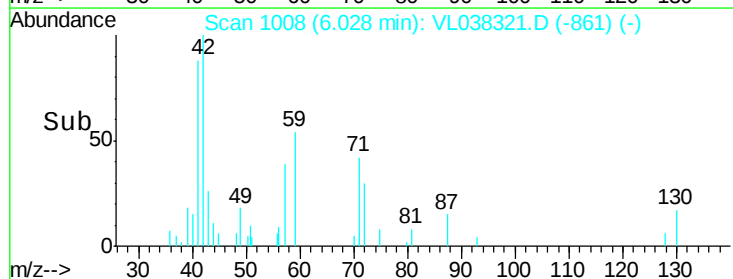
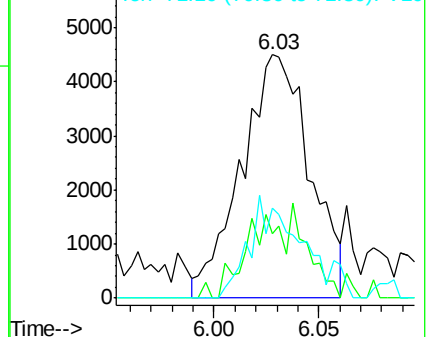
71 34.4 29.4 44.2

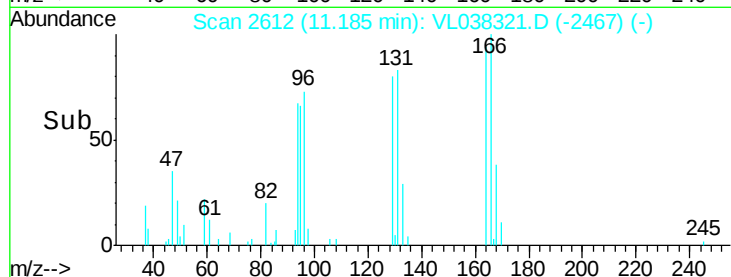
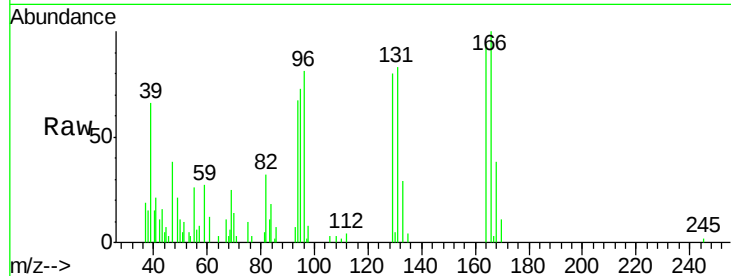
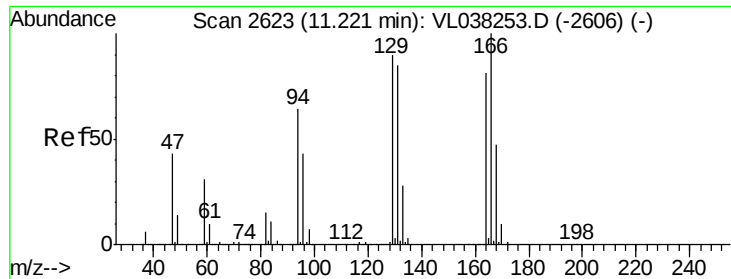


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



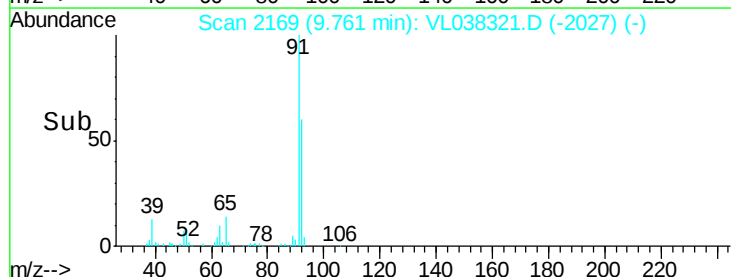
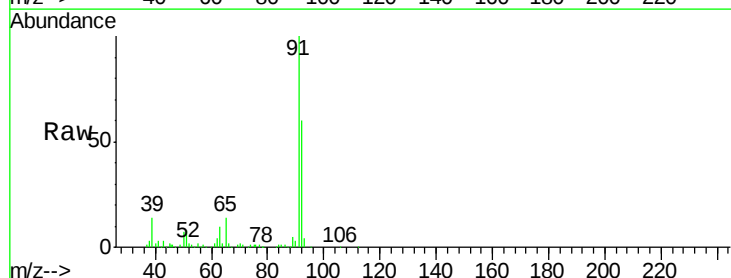
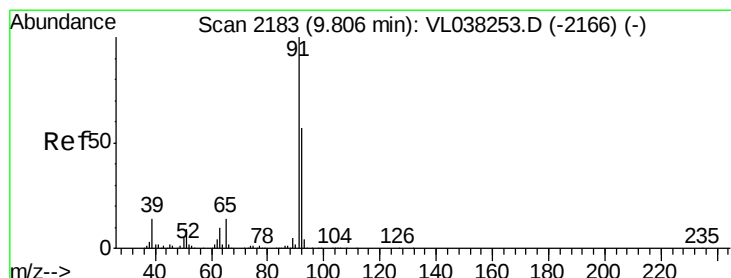
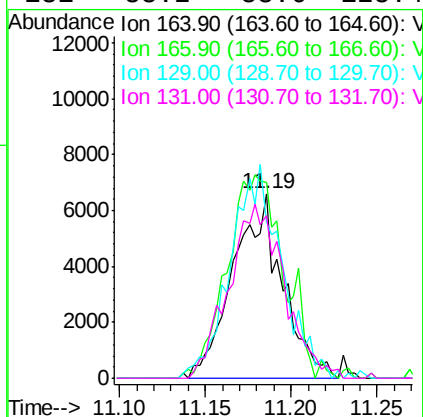


#52
Tetrachloroethene
Concen: 0.180 ppbv m
RT: 11.19
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 1 Feb 2022 14:47

Tgt Ion: 1
Ion Ratio
164 100
166 106.
129 84.
131 88.2 83.6 125.4

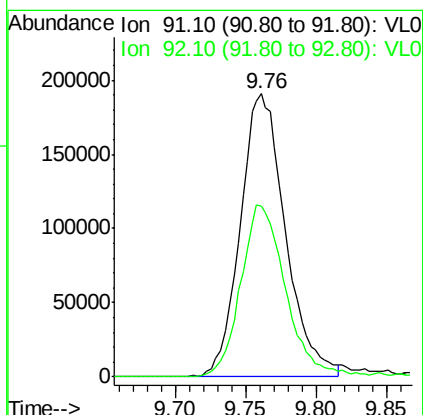
Manual Integrations
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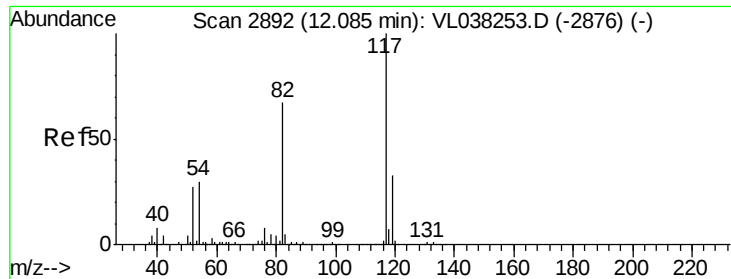
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#53
Toluene
Concen: 1.824 ppbv
RT: 9.76 min Scan# 2169
Delta R.T. -0.04 min
Lab File: VL038321.D
Acq: 1 Feb 2022 14:47

Tgt Ion: 91 Resp: 426620
Ion Ratio Lower Upper
91 100
92 61.8 47.4 71.0



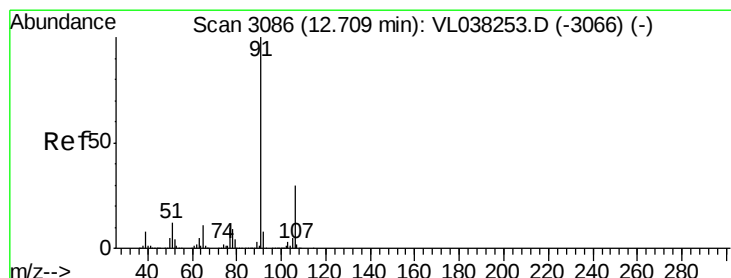
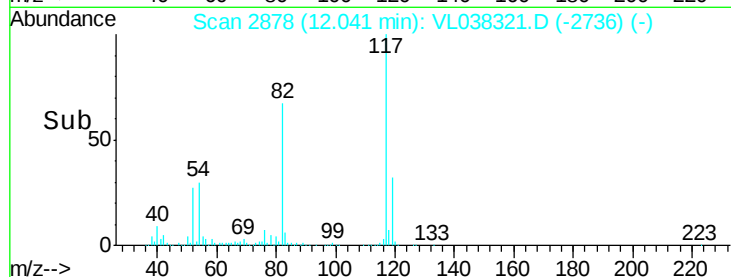
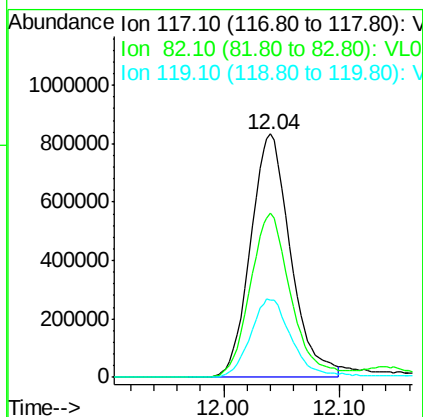
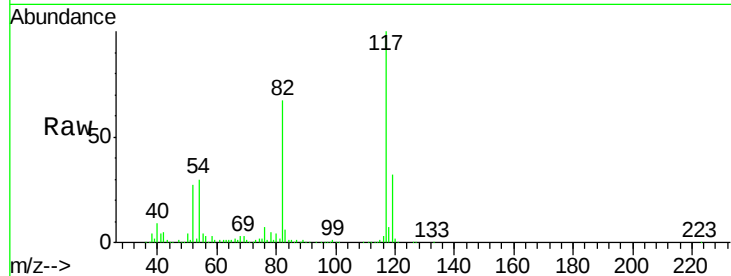


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 1 Feb 2022 14:47

Tgt Ion: 117
Ion Ratio: 100
117 100
82 69.1
119 34.1

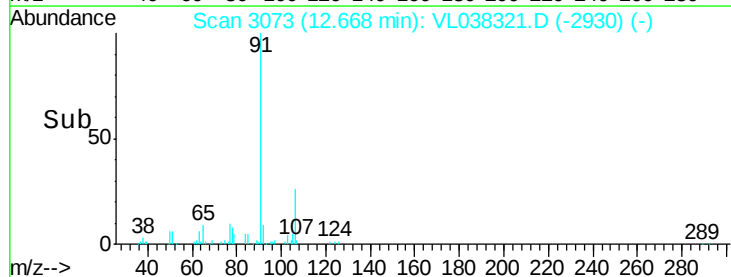
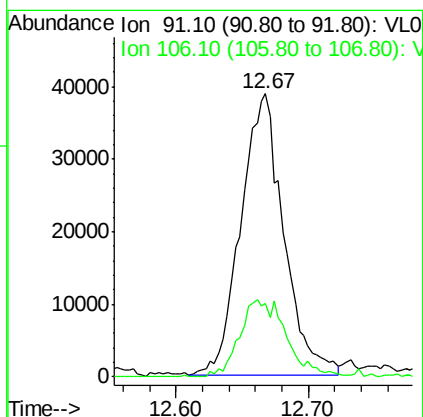
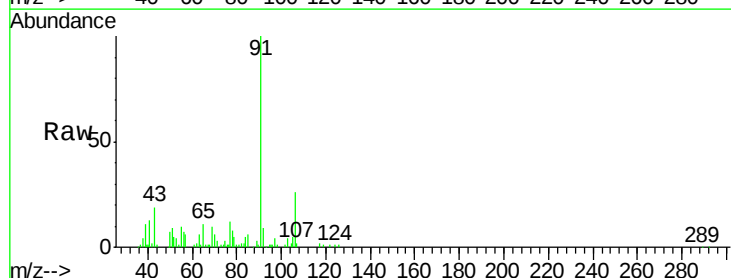
Manual Integrations
APPROVED

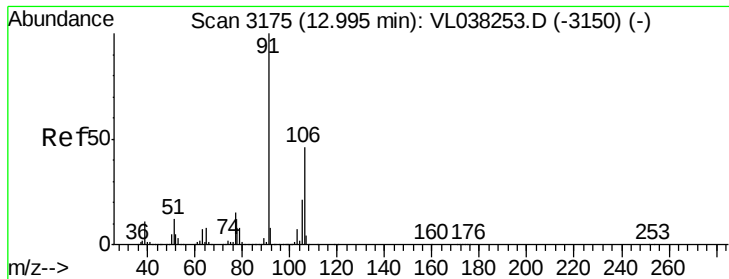
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#58
Ethyl Benzene
Concen: 0.297 ppbv
RT: 12.67 min Scan# 3073
Delta R.T. -0.04 min
Lab File: VL038321.D
Acq: 1 Feb 2022 14:47

Tgt Ion: 91 Resp: 87182
Ion Ratio Lower Upper
91 100
106 26.1 24.1 36.1



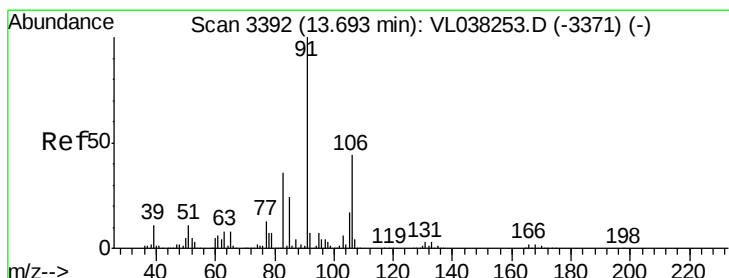
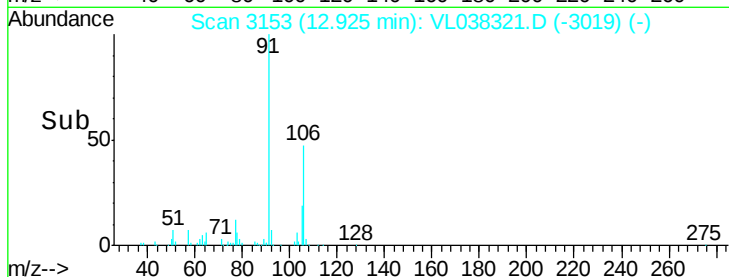
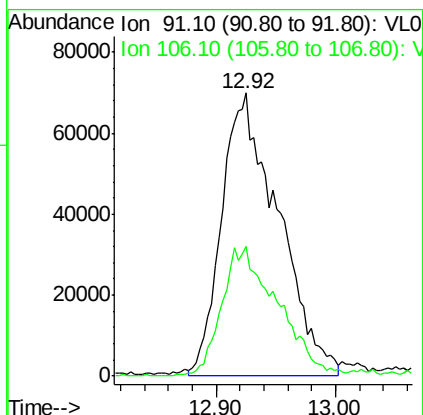
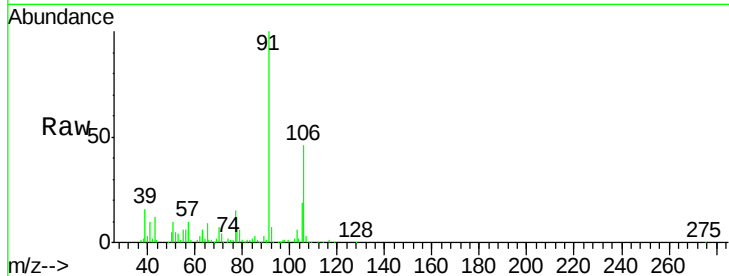


#59
m/p-Xylene
Concen: 0.921 ppbv m
RT: 12.92
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 14:47

Tgt Ion:
Ion Ratio
91 100
106 0.

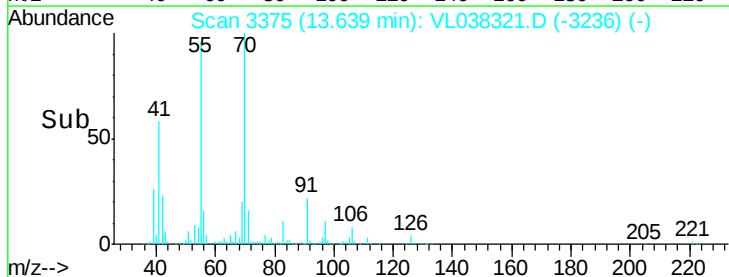
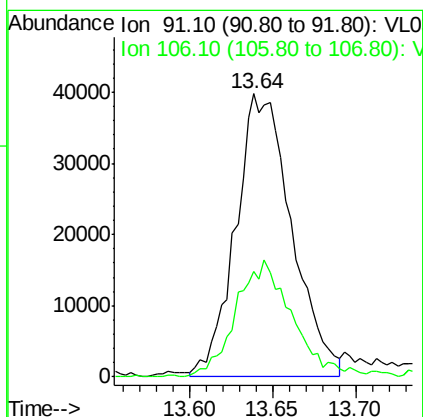
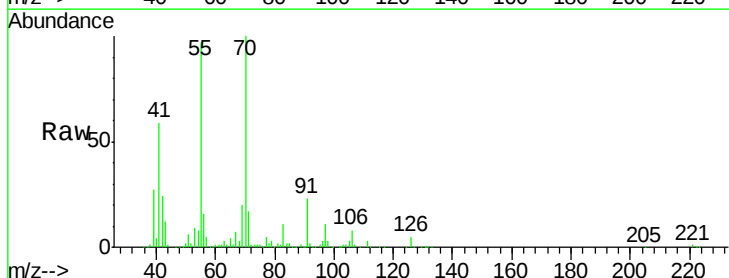
Manual Integrations
APPROVED

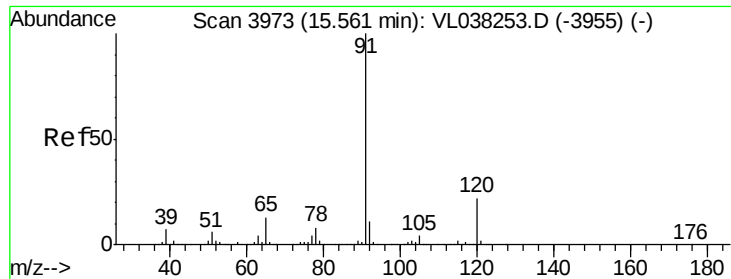
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#60
o-Xylene
Concen: 0.401 ppbv m
RT: 13.64 min Scan# 3375
Delta R.T. -0.05 min
Lab File: VL038321.D
Acq: 1 Feb 2022 14:47

Tgt Ion: 91 Resp: 93444
Ion Ratio Lower Upper
91 100
106 0.0 22.2 66.6#



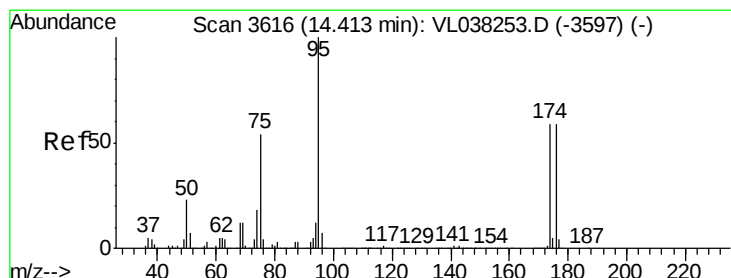
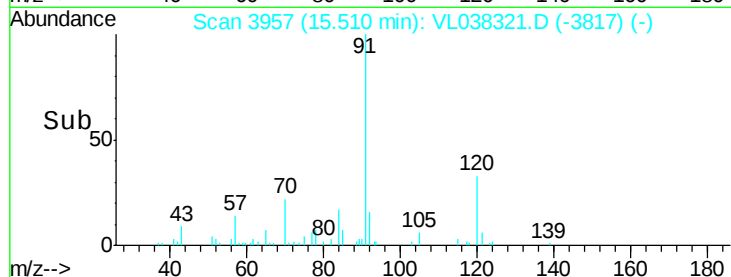
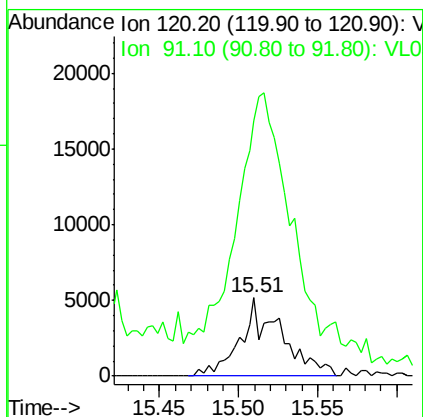
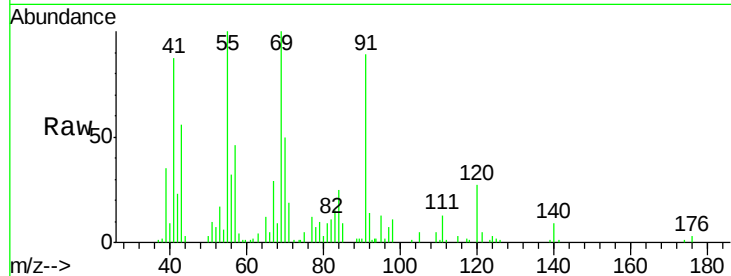


#64
n-propylbenzene
Concen: 0.127 ppbv m
RT: 15.51 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SVP-2
Acq: 1 Feb 2022 14:47

Tgt Ion: 1
Ion Ratio
120 100
91 0.

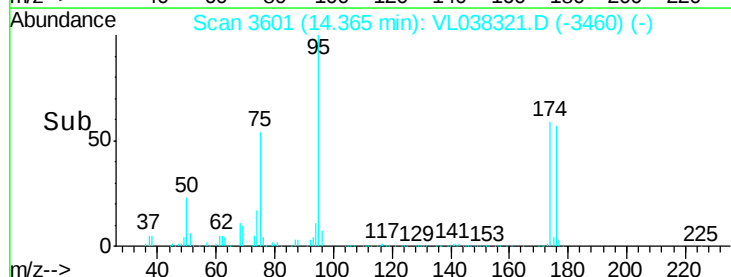
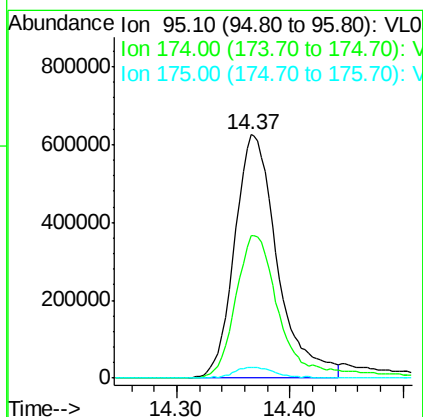
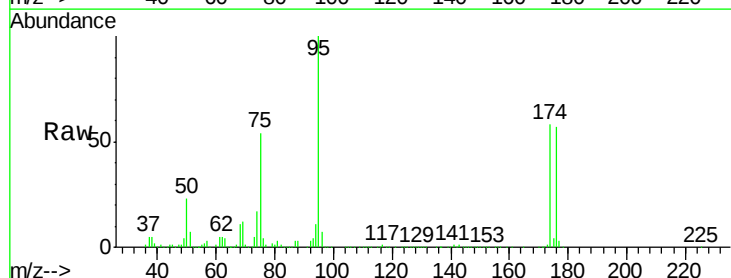
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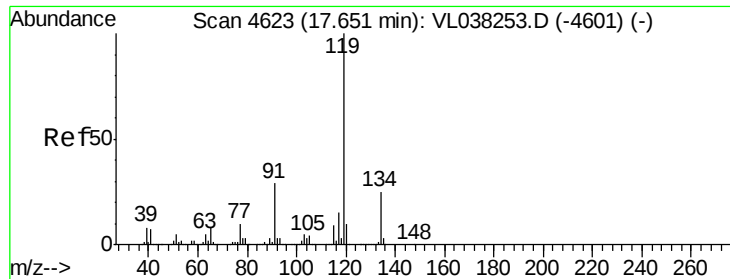
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.803 ppbv
RT: 14.37 min Scan# 3601
Delta R.T. -0.05 min
Lab File: VL038321.D
Acq: 1 Feb 2022 14:47

Tgt Ion: 95 Resp: 1639815
Ion Ratio Lower Upper
95 100
174 62.8 48.3 72.5
175 4.8 3.5 5.3



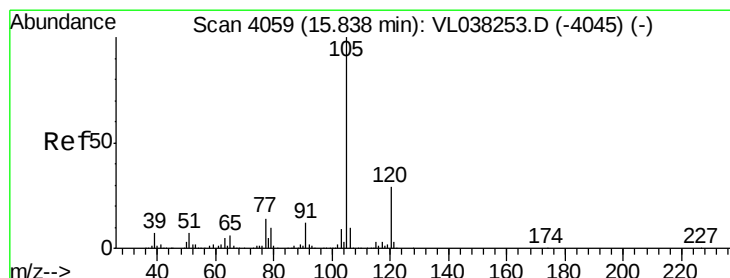
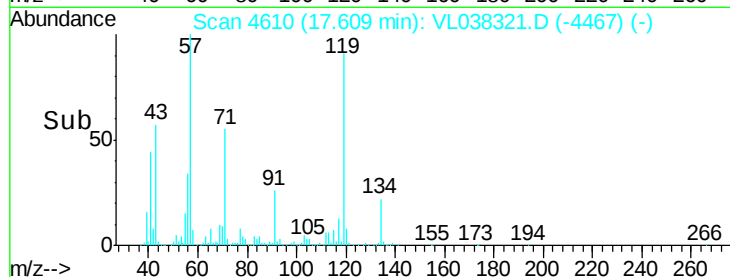
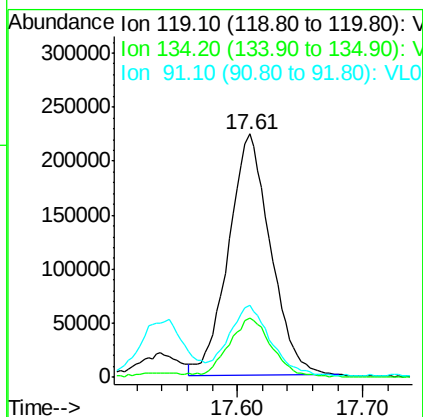
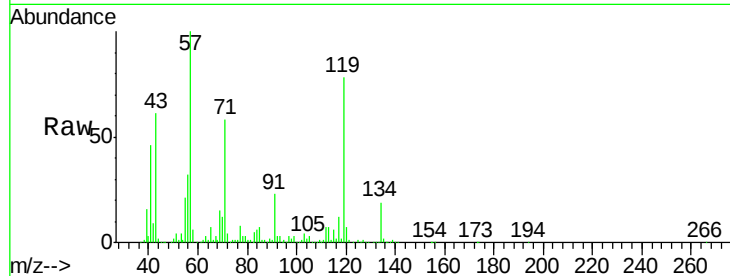


#69
 p-Isopropyltoluene
 Concen: 1.899 ppbv
 RT: 17.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Feb 2022 14:47

Tgt Ion:1
 Ion Ratio
 119 100
 134 25.
 91 30.

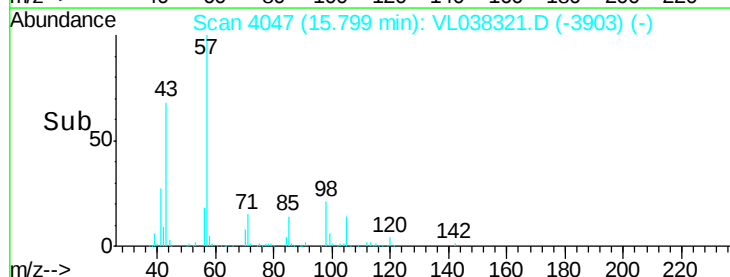
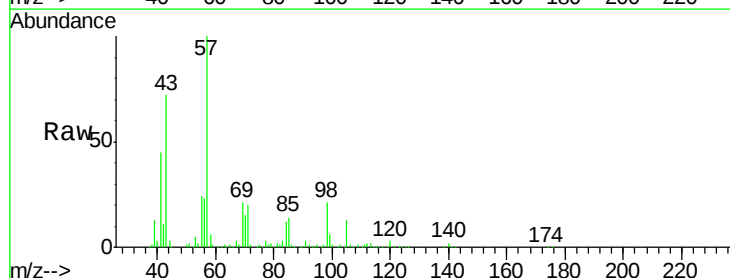
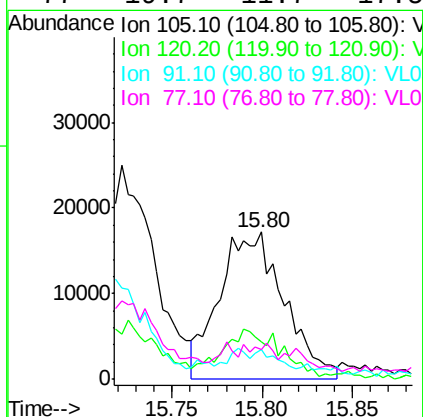
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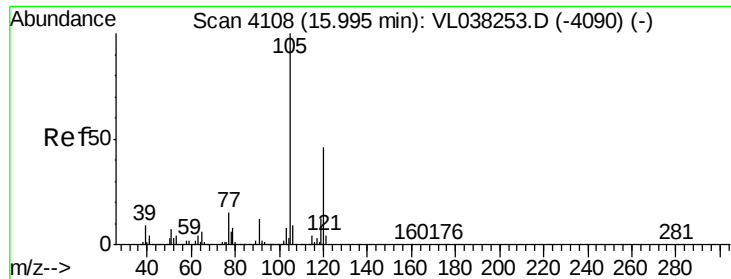
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#72
 4-Ethyltoluene
 Concen: 0.175 ppbv m
 RT: 15.80 min Scan# 4047
 Delta R.T. -0.04 min
 Lab File: VL038321.D
 Acq: 1 Feb 2022 14:47

Tgt Ion:105 Resp: 42725
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.8 35.8#
 91 0.0 10.2 15.4#
 77 19.7 11.7 17.5#



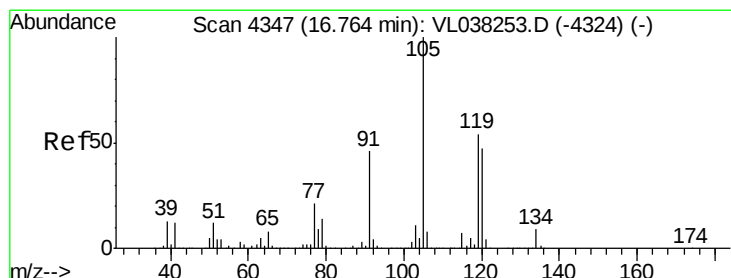
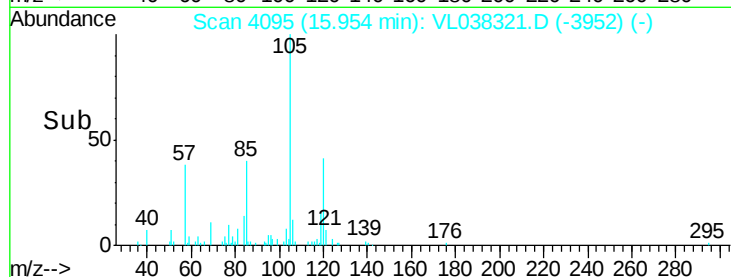
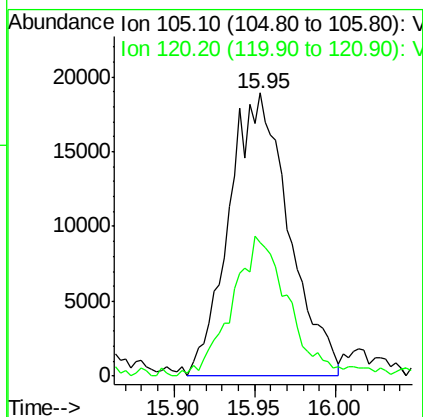
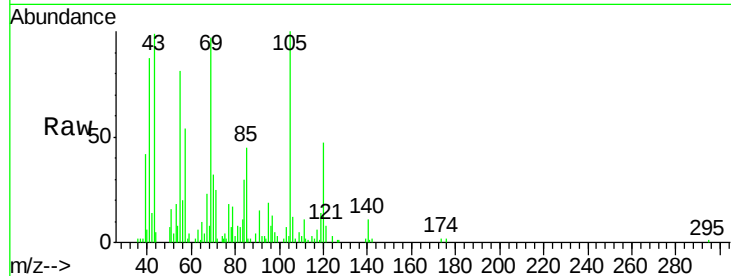


#73
 1,3,5-Trimethylbenzene
 Concen: 0.223 ppbv m
 RT: 15.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Feb 2022 14:47

Tgt Ion:1
 Ion Rati
 105 100
 120 47.

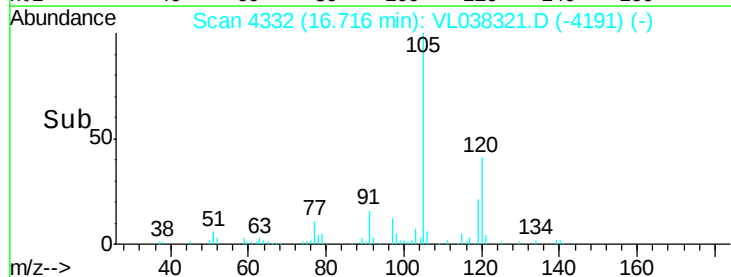
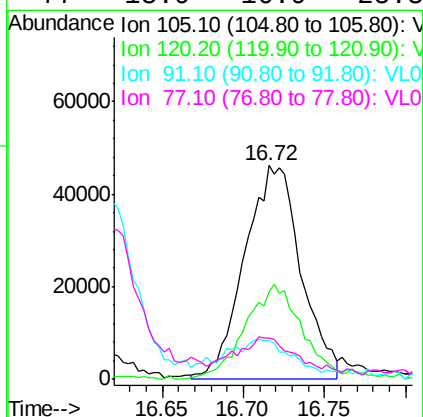
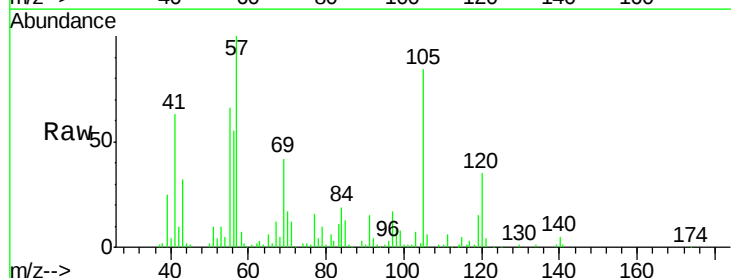
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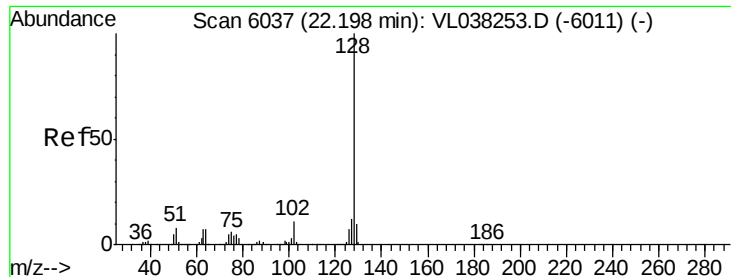
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 0.483 ppbv m
 RT: 16.72 min Scan# 4332
 Delta R.T. -0.05 min
 Lab File: VL038321.D
 Acq: 1 Feb 2022 14:47

Tgt Ion:105 Resp: 111570
 Ion Ratio Lower Upper
 105 100
 120 41.1 37.2 55.8
 91 17.9 36.6 55.0#
 77 18.9 16.9 25.3





#79

Naphthalene

Concen: 0.293 ppbv m

RT: 22.14

Delta R.T

Lab File:

Acq: 1 Feb 2022 14:47

Instrument :

MSVOA_L

ClientSampleId :

SVP-2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022

