

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
 Data File : VL038800.D
 Acq On : 30 Mar 2022 18:43
 Operator : SY/AP
 Sample : N2169-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV4

Manual Integrations
 APPROVED

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

Quant Time: Mar 31 04:46:18 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	749325	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2258237	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2043780	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1469873	9.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	144137	1.431	ppbv	99
3) Chlorodifluoromethane	2.99	51	24194	0.306	ppbv #	88
4) Chloromethane	3.14	50	11931	0.275	ppbv #	81
7) Chloroethane	3.56	64	4676m	0.320	ppbv	
9) Propene	3.02	41	115410m	3.021	ppbv	
10) Heptane	8.11	43	84352	0.924	ppbv	99
11) Trichlorofluoromethane	3.94	101	44239m	0.498	ppbv	
13) Ethanol	3.60	45	47592	11.292	ppbv	97
15) Acetone	3.84	43	1122097	17.355	ppbv	96
17) tert-Butyl alcohol	4.30	59	11569m	0.205	ppbv	
19) Isopropyl Alcohol	3.97	45	25823m	0.720	ppbv	
20) Methylene Chloride	4.34	84	72534	2.663	ppbv	93
26) Hexane	5.68	57	1173800	16.109	ppbv #	27
27) Carbon Disulfide	4.55	76	135857	1.901	ppbv	96
28) Methyl tert-Butyl Ether	5.03	73	32211	0.593	ppbv	98
29) Chloroform	5.74	83	11539m	0.099	ppbv	
30) Cyclohexane	7.12	84	14051m	0.222	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	32617	0.290	ppbv	99
34) 2-Butanone	5.24	43	340239	3.807	ppbv	97
35) Carbon Tetrachloride	7.01	117	5471m	0.042	ppbv	
36) Benzene	6.89	78	42042	0.241	ppbv	98
51) 2-Hexanone	10.13	43	362620	3.038	ppbv	97
52) Tetrachloroethene	11.21	164	717639	11.252	ppbv	97
53) Toluene	9.79	91	185289	0.989	ppbv	97
58) Ethyl Benzene	12.70	91	38158	0.160	ppbv	94
59) m/p-Xylene	12.96	91	109531	0.524	ppbv	93
60) o-Xylene	13.68	91	52939	0.267	ppbv	97
61) Styrene	13.51	104	13146m	0.122	ppbv	
62) Isopropylbenzene	14.66	105	96423	0.323	ppbv	99
72) 4-Ethyltoluene	15.83	105	25907m	0.111	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	21957m	0.103	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	77395m	0.333	ppbv	

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

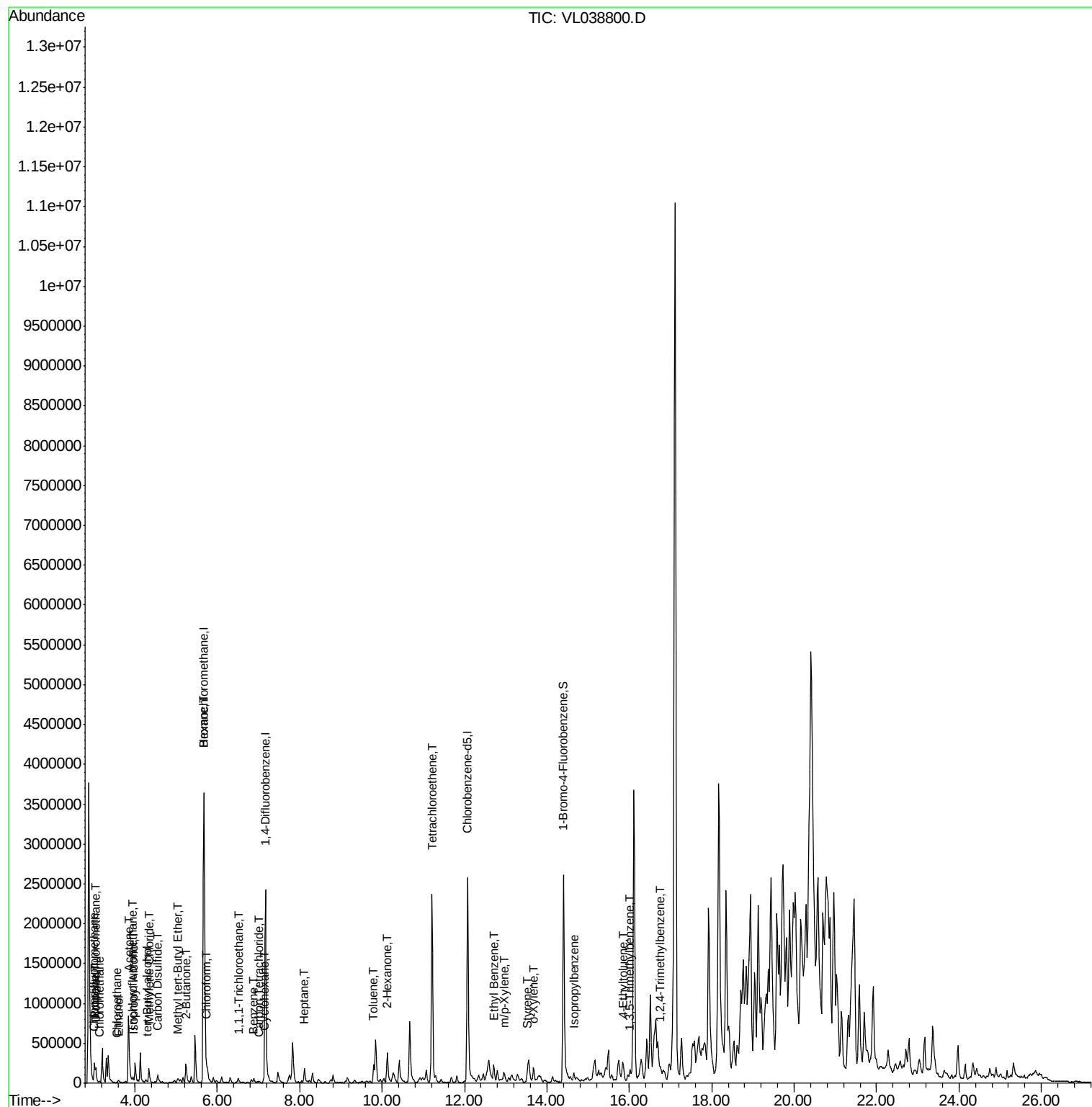
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033022\
Data File : VL038800.D
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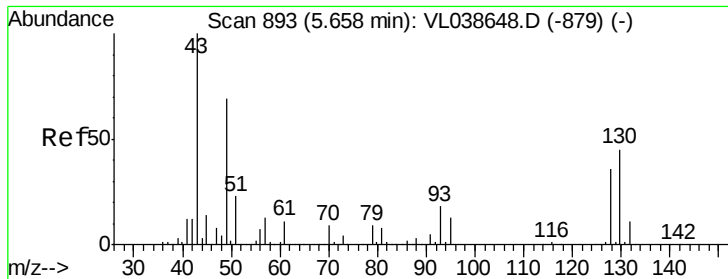
Instrument :
MSVOA_L
ClientSampleId :
SV4

Manual Integrations
APPROVED

Quant Time: Mar 31 04:46:18 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 18:43 SV4

Tot Ion:

Ion Ratio

49 100

128 56.

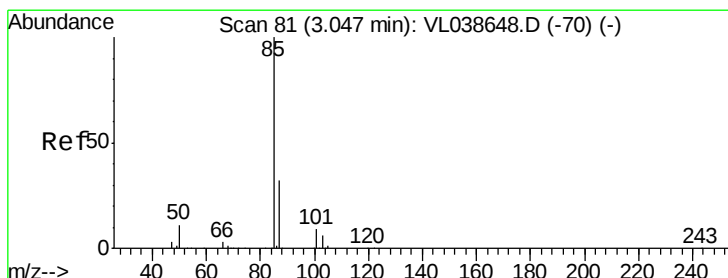
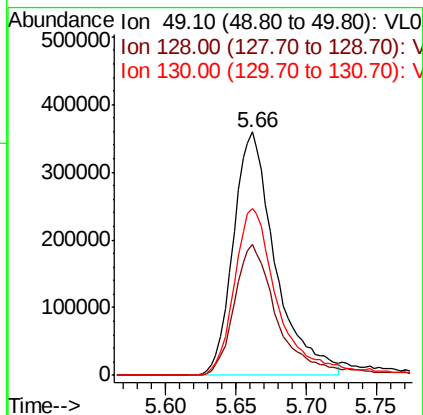
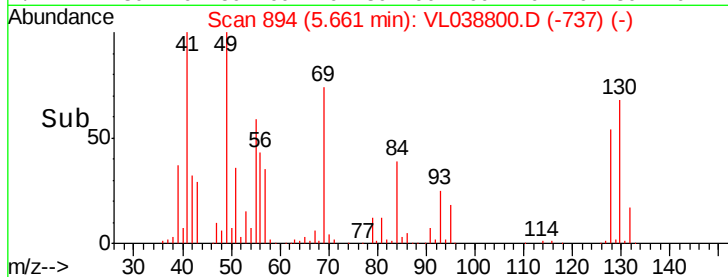
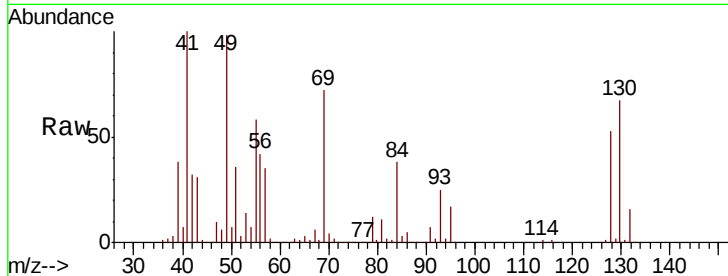
130 72.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#2

Dichlorodifluoromethane

Concen: 1.431 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038800.D

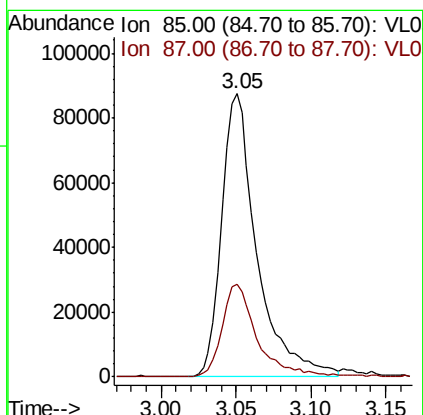
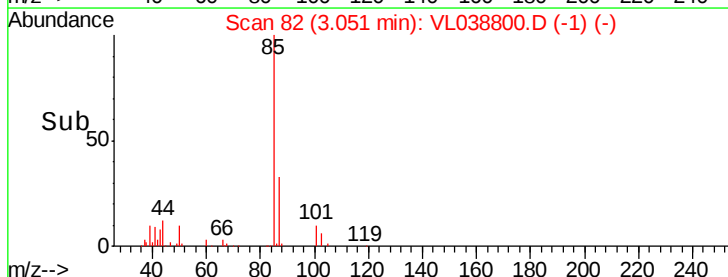
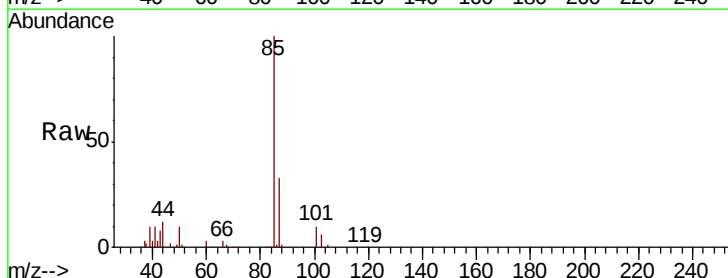
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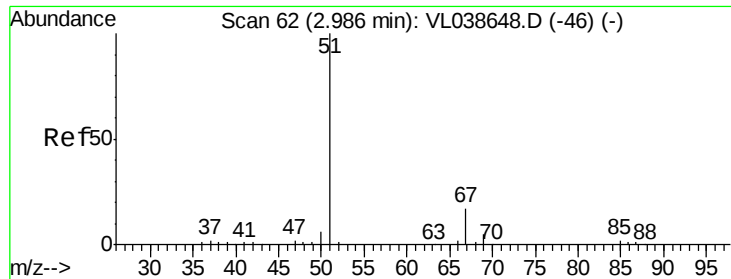
Tgt Ion: 85 Resp: 144137

Ion Ratio Lower Upper

85 100

87 32.9 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.306 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 30 Mar 2022 18:43

Tot Ion:

Ion Ratio

51 100

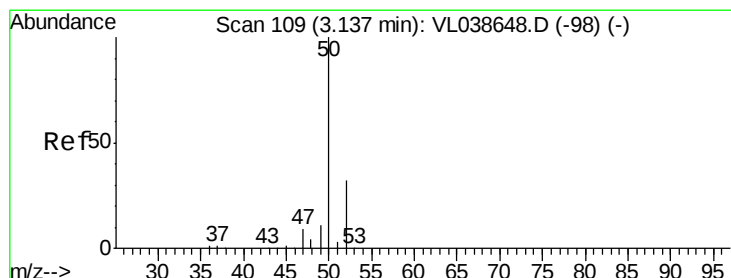
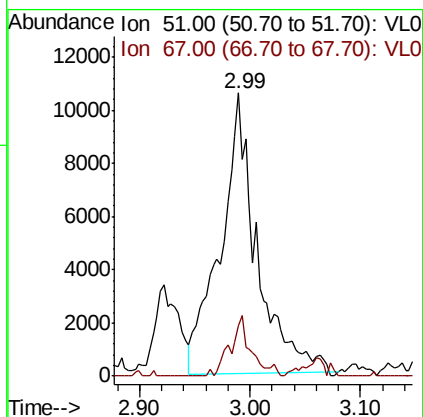
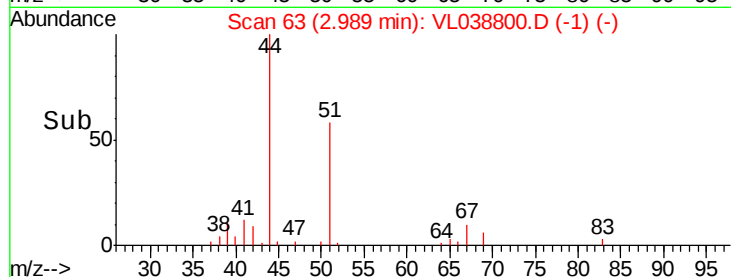
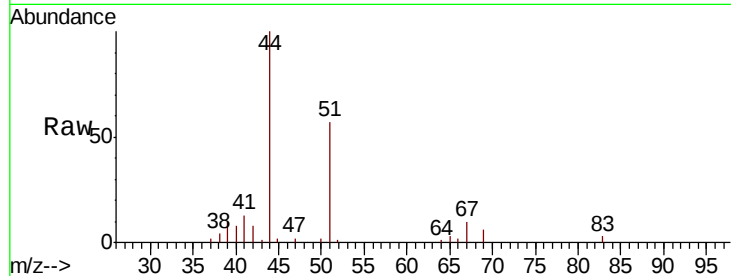
67 12.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#4

Chloromethane

Concen: 0.275 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038800.D

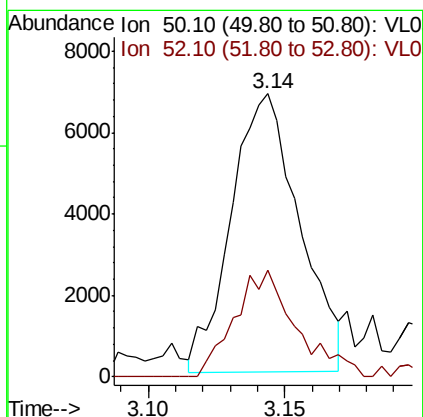
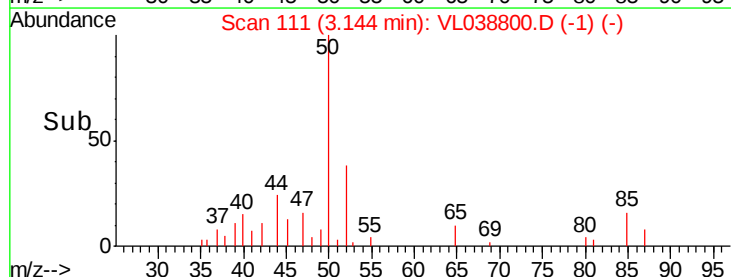
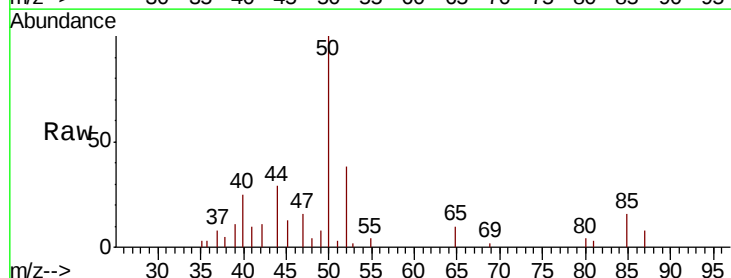
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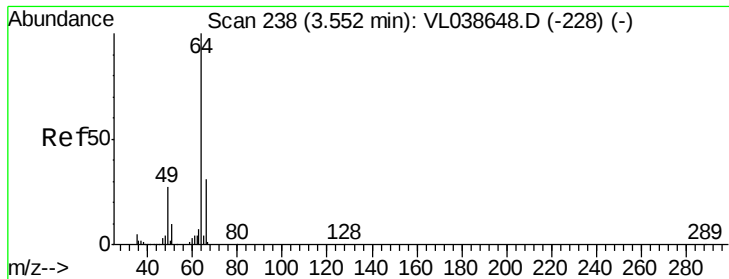
Tgt Ion: 50 Resp: 11931

Ion Ratio Lower Upper

50 100

52 42.6 25.5 38.3#





#7

Chloroethane

Concen: 0.320 ppbv m

RT: 3.56

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 30 Mar 2022 18:43

Tot Ion:

Ion Ratio

64 100

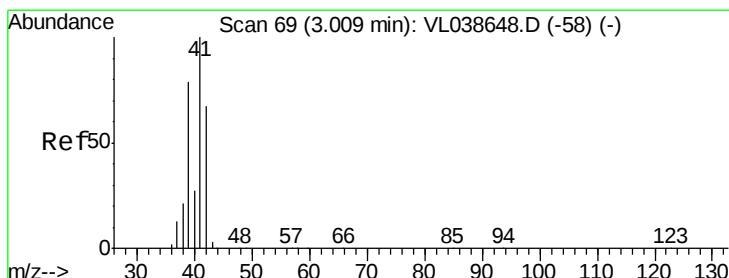
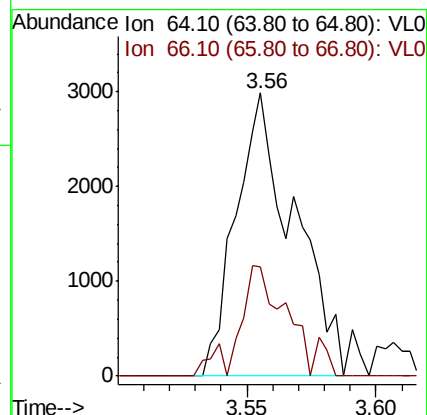
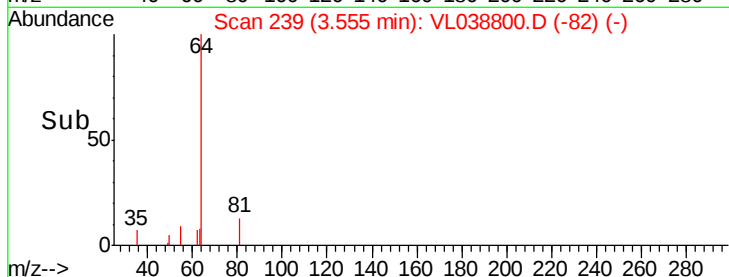
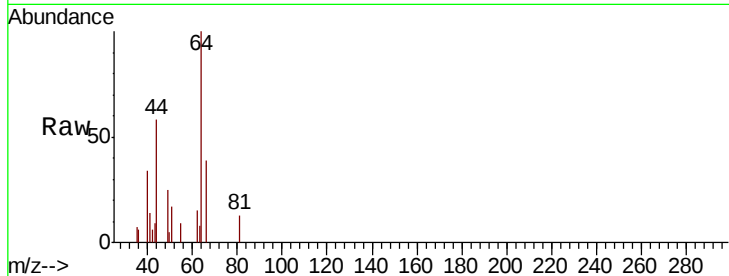
66 38.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#9

Propene

Concen: 3.021 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL038800.D

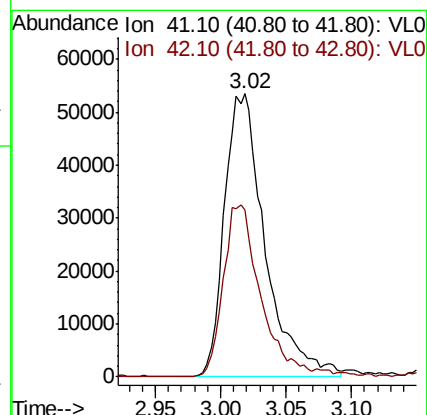
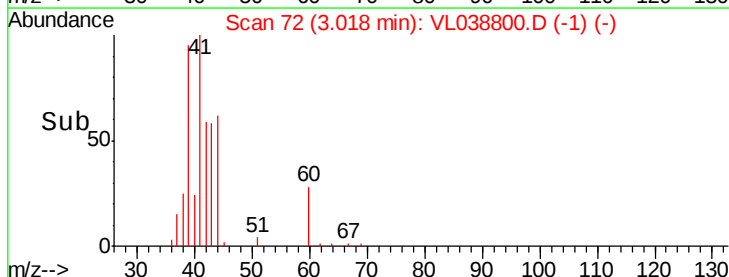
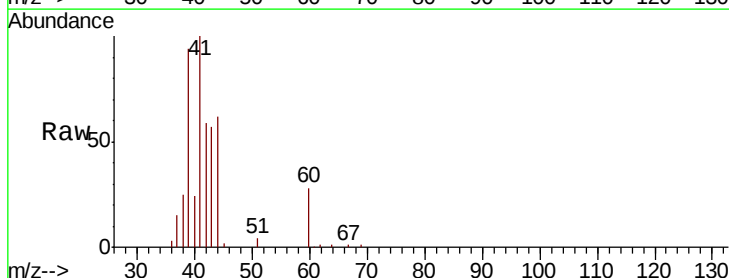
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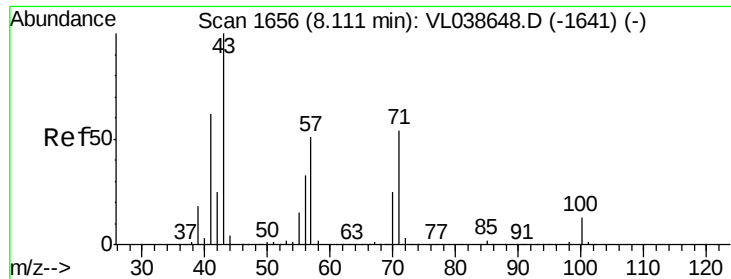
Tgt Ion: 41 Resp: 115410

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



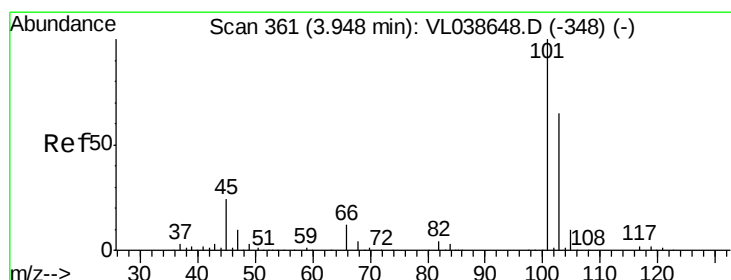
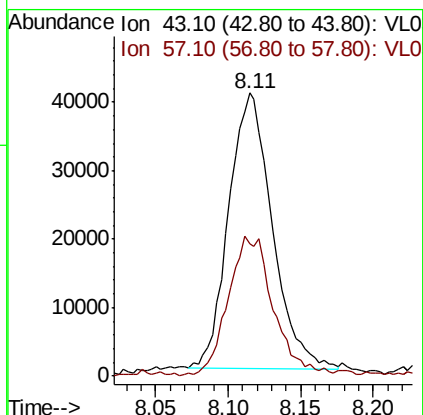
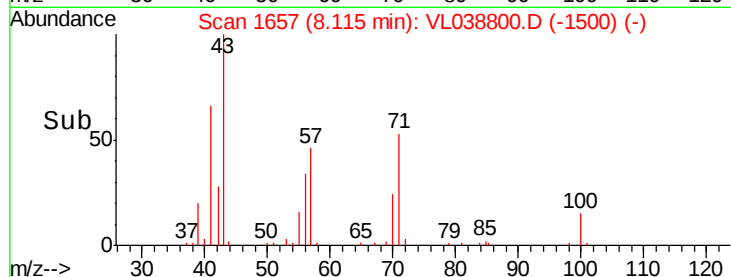
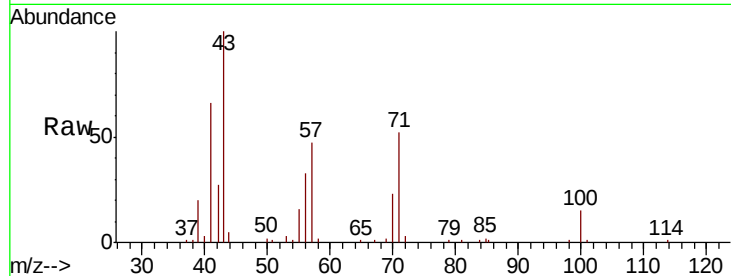


#10
 Heptane
 Concen: 0.924 ppbv
 RT: 8.11
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV4
 Acq: 30 Mar 2022 18:43

Tot Ion:
 Ion Ratio
 43 100
 57 52.

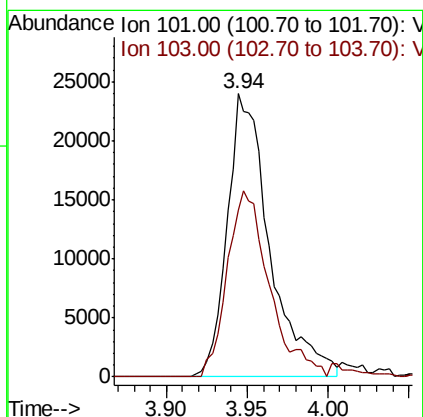
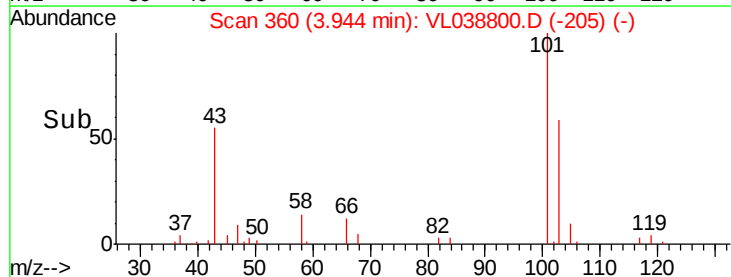
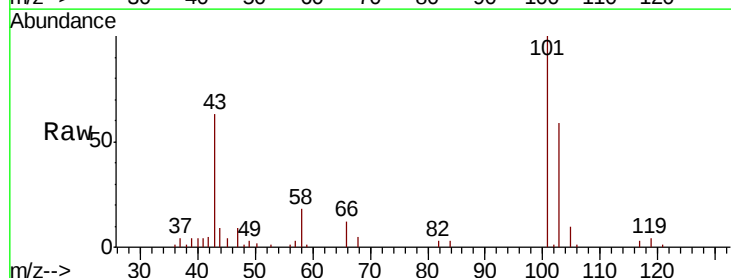
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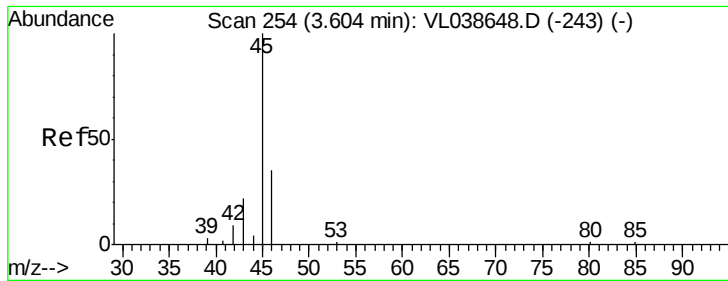
Reviewed By :Semsettin Yesilyurt 04/02/2022
 Supervised By :Mahesh Dadoda 04/04/2022



#11
 Trichlorofluoromethane
 Concen: 0.498 ppbv m
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL038800.D
 Acq: 30 Mar 2022 18:43

Tgt Ion:101 Resp: 44239
 Ion Ratio Lower Upper
 101 100
 103 59.1 51.9 77.9



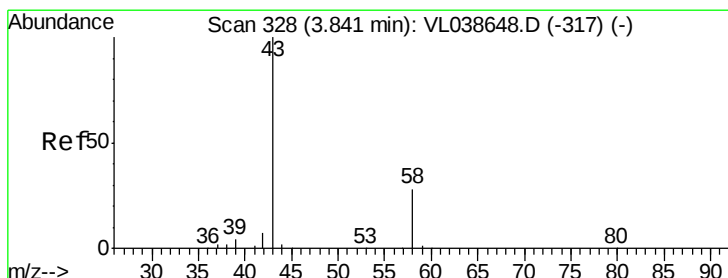
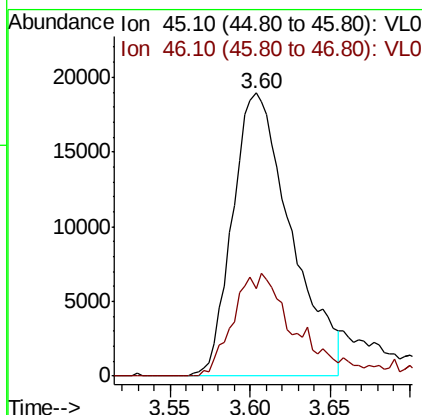
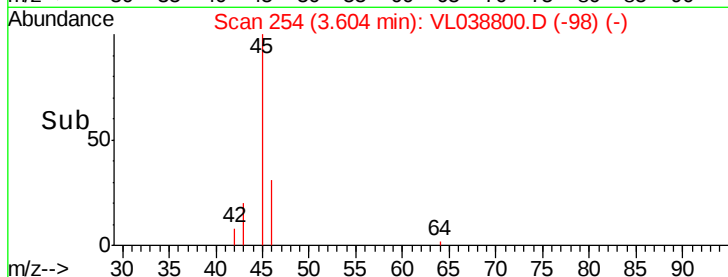
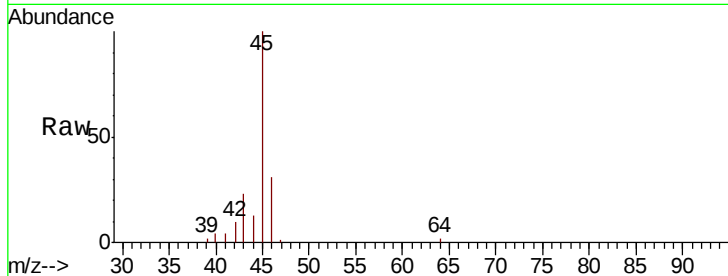


#13
Ethanol
Concen: 11.292 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 18:43

Tot Ion:
Ion Ratio
45 100
46 39.

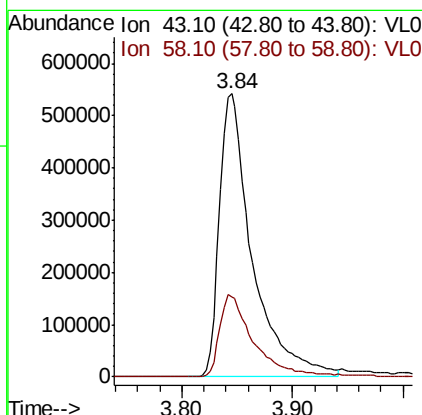
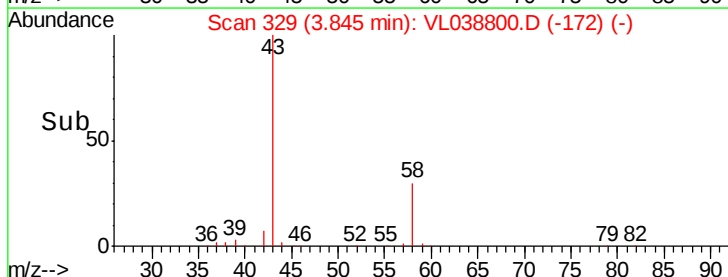
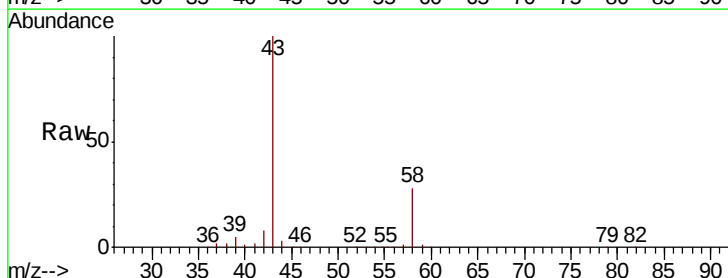
Manual Integrations
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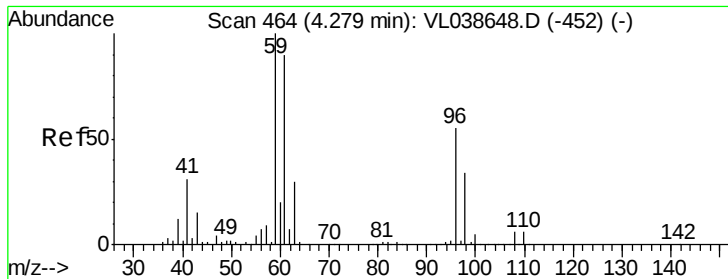
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#15
Acetone
Concen: 17.355 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.00 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion: 43 Resp: 1122097
Ion Ratio Lower Upper
43 100
58 31.1 23.3 34.9





#17

tert-Butyl alcohol

Concen: 0.205 ppbv m

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 18:43 SV4

Tot Ion:

Ion Ratio

59 100

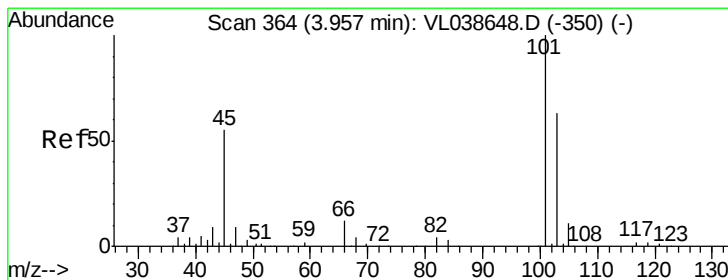
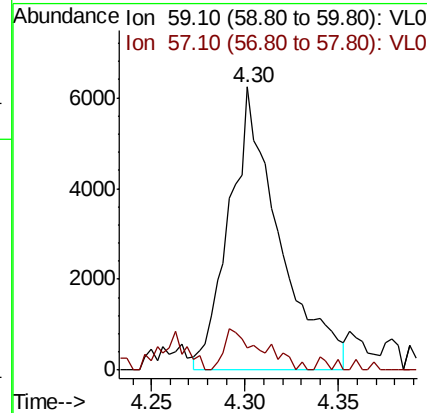
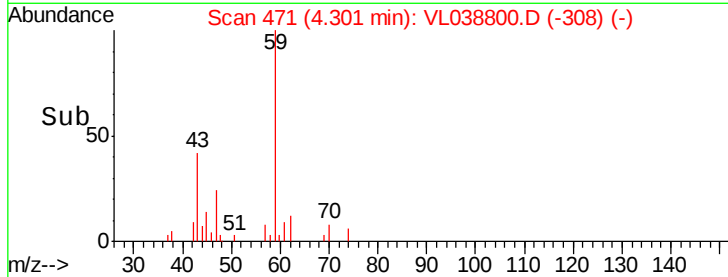
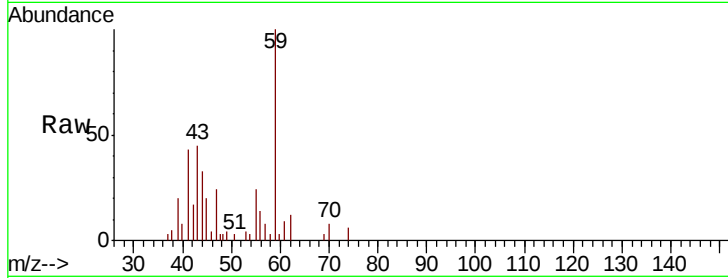
57 12.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#19

Isopropyl Alcohol

Concen: 0.720 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL038800.D

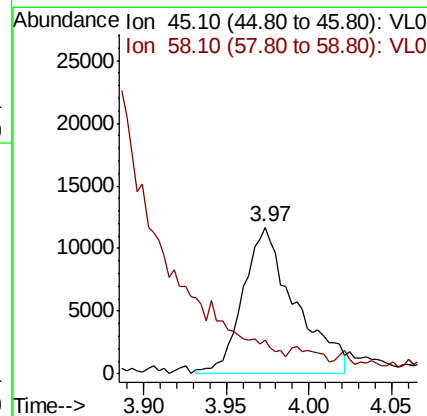
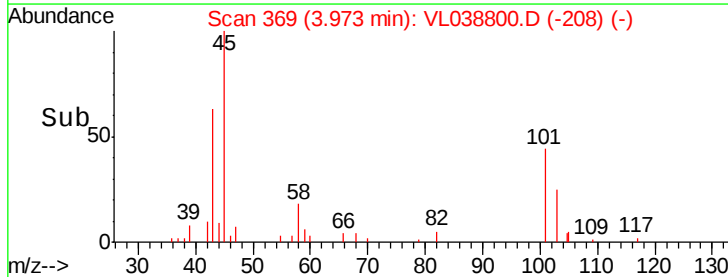
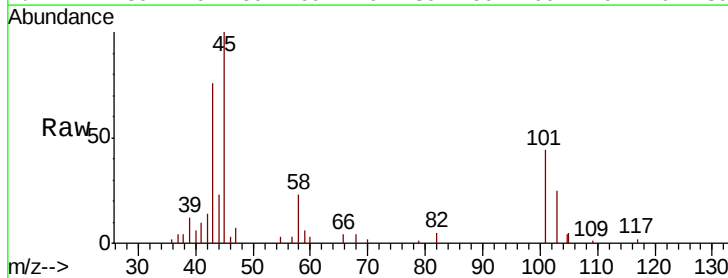
Acq: 30 Mar 2022 18:43

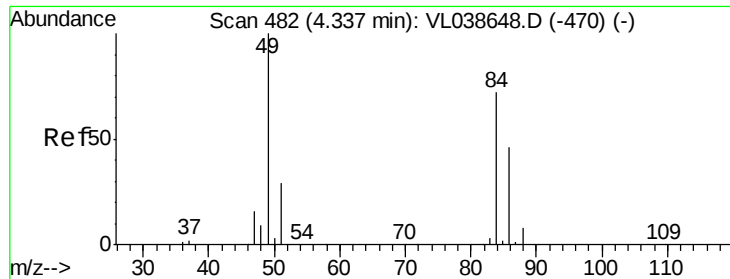
Tgt Ion: 45 Resp: 25823

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#



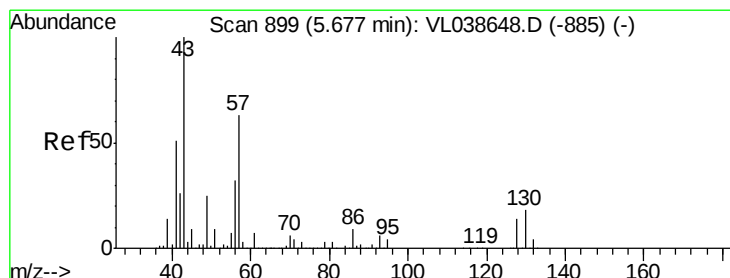
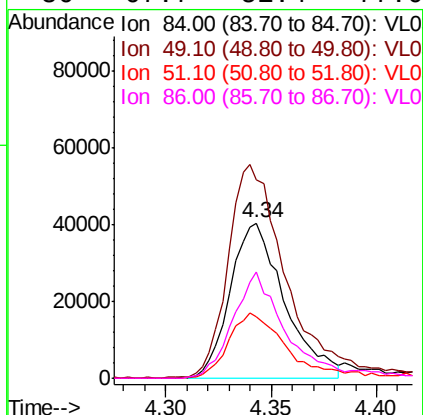
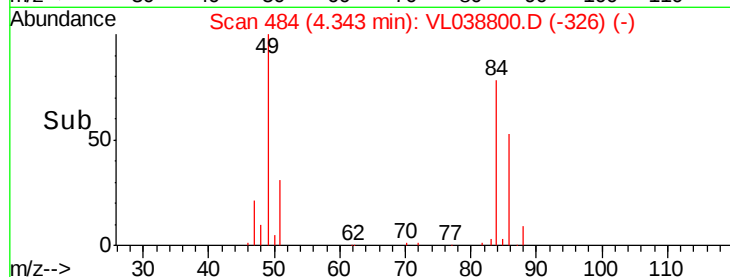
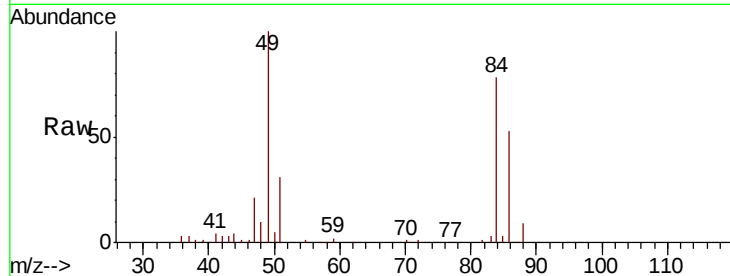


#20
Methvlene Chloride
Concen: 2.663 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4
Acq: 30 Mar 2022 18:43

Tot Ion:
Ion Ratio
84 100
49 126.
51 39.
86 67.7 51.4 77.0

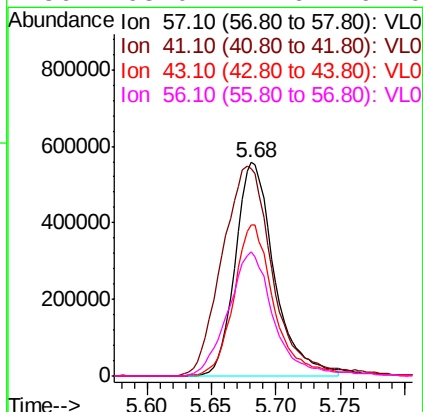
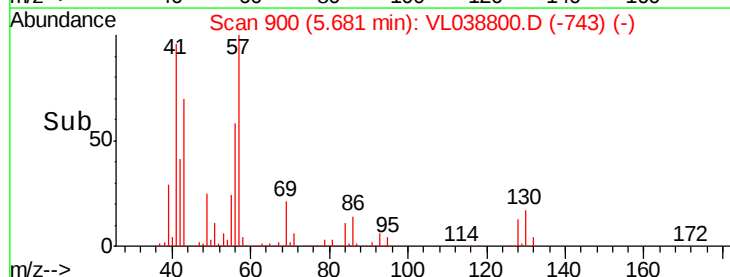
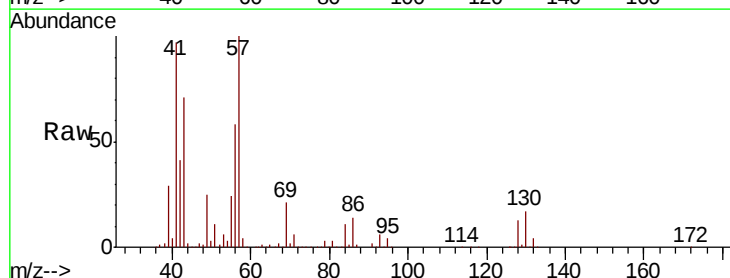
Manual Integrations
APPROVED

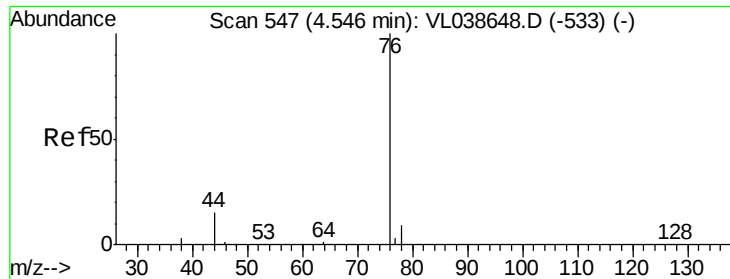
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#26
Hexane
Concen: 16.109 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion: 57 Resp: 1173800
Ion Ratio Lower Upper
57 100
41 128.5 67.0 100.4#
43 74.0 184.2 276.2#
56 68.0 42.6 64.0#



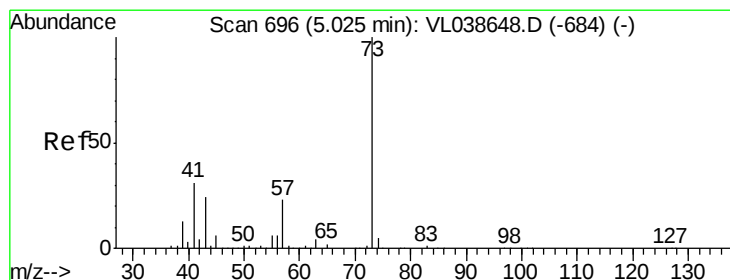
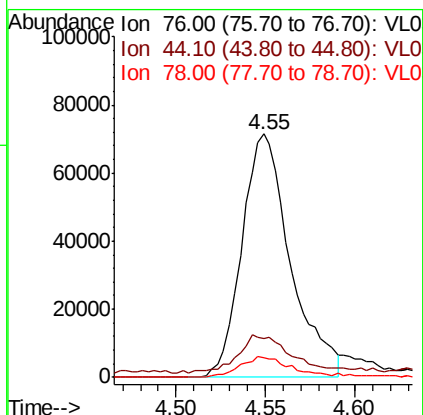
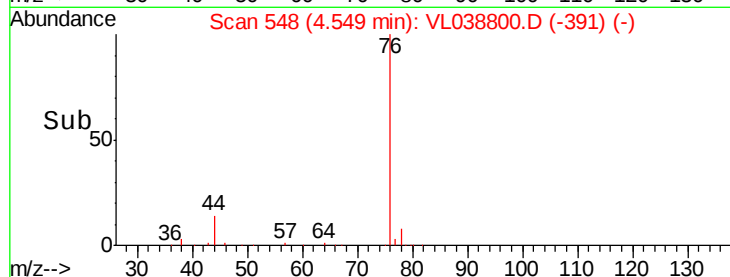
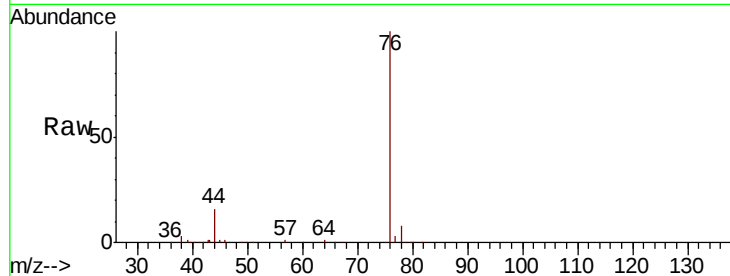


#27
Carbon Disulfide
Concen: 1.901 ppbv
RT: 4.55
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
SV4
Acq: 30 Mar 2022 18:43

Tot Ion:
Ion Ratio
76 100
44 17.
78 9.

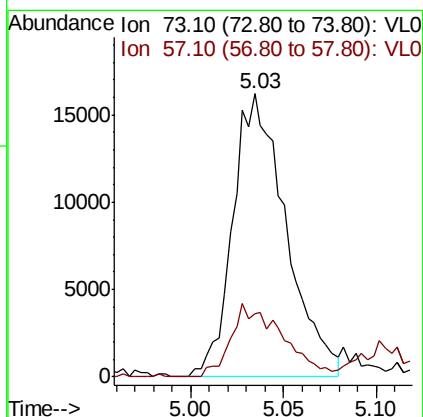
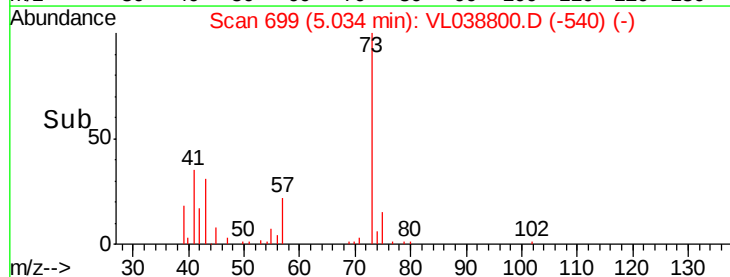
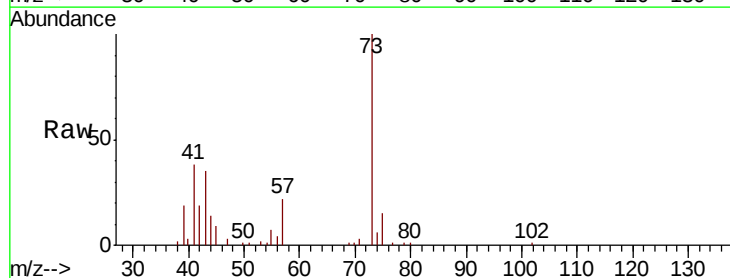
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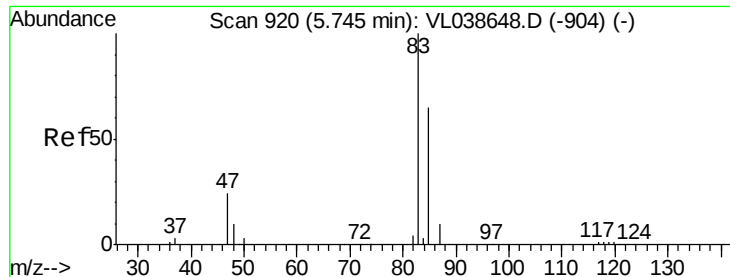
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#28
Methyl tert-Butyl Ether
Concen: 0.593 ppbv
RT: 5.03 min Scan# 699
Delta R.T.: 0.01 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion: 73 Resp: 32211
Ion Ratio Lower Upper
73 100
57 25.0 19.2 28.8





#29

Chloroform

Concen: 0.099 ppbv m

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Mar 2022 18:43 SV4

Tot Ion:

Ion Ratio

83 100

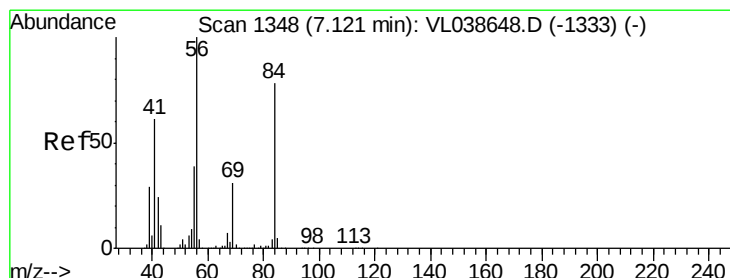
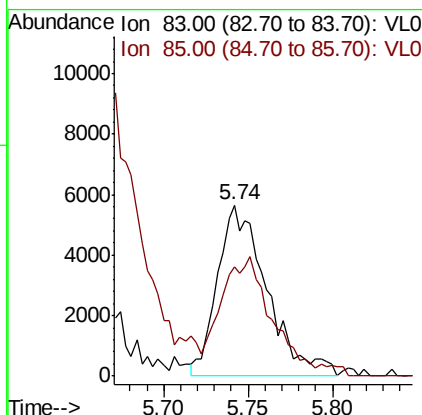
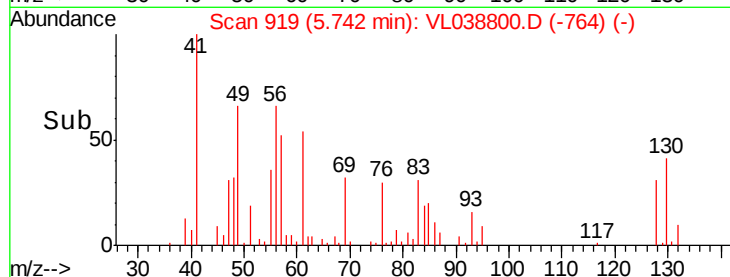
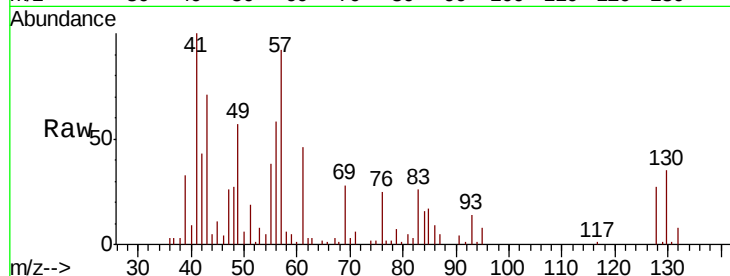
85 63.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/02/2022

Supervised By :Mahesh Dadoda 04/04/2022



#30

Cyclohexane

Concen: 0.222 ppbv m

RT: 7.12 min Scan# 1349

Delta R.T. 0.00 min

Lab File: VL038800.D

Acq: 30 Mar 2022 18:43

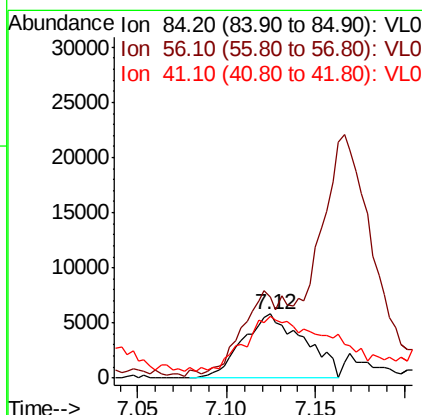
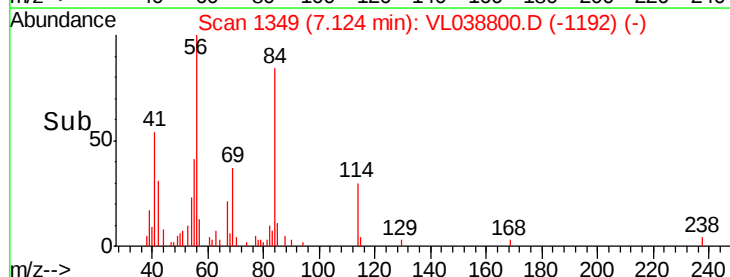
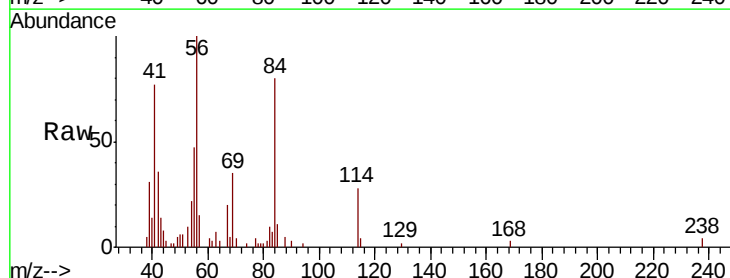
Tgt Ion: 84 Resp: 14051

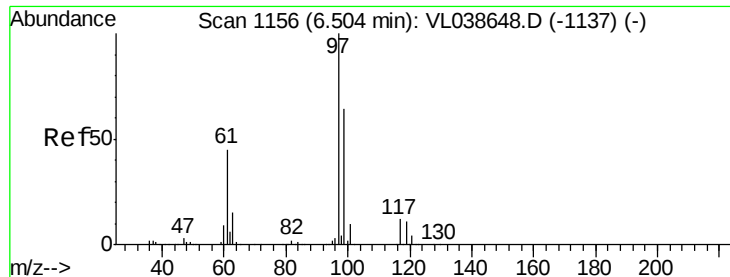
Ion Ratio Lower Upper

84 100

56 0.0 108.2 162.4#

41 144.1 61.8 92.6#



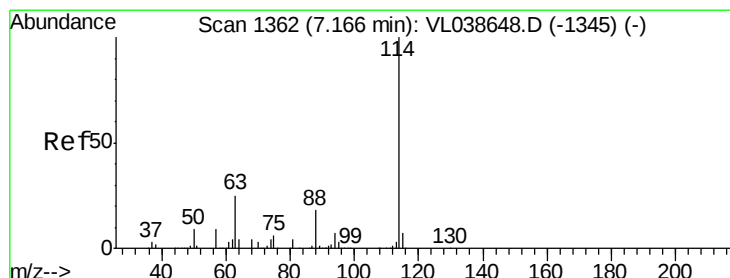
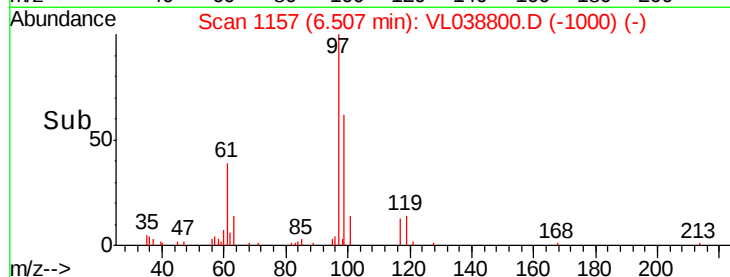
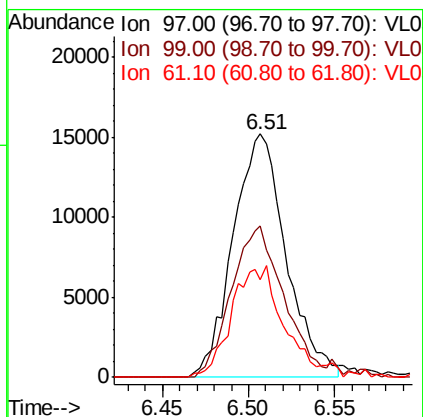
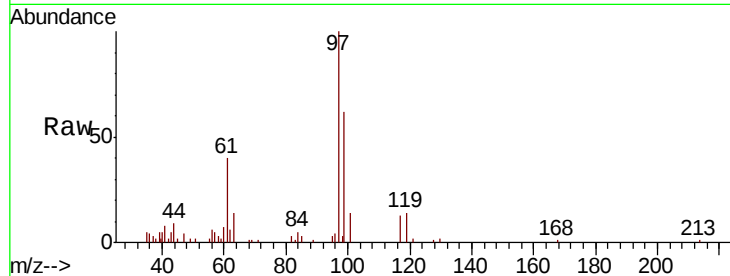


#32
 1,1,1-Trichloroethane
 Concen: 0.290 ppbv
 RT: 6.51 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SV4
 Acq: 30 Mar 2022 18:43

Tot Ion:
 Ion Ratio
 97 100
 99 63.
 61 46.

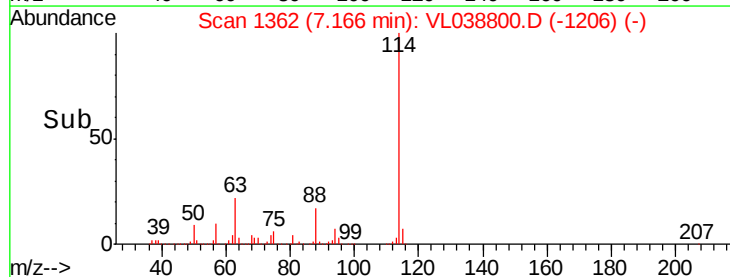
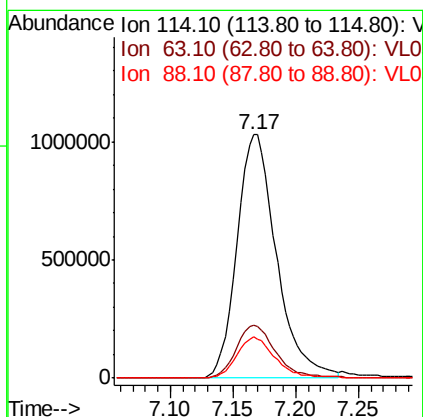
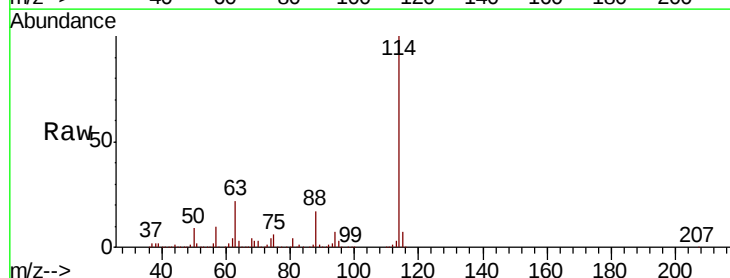
Manual Integrations
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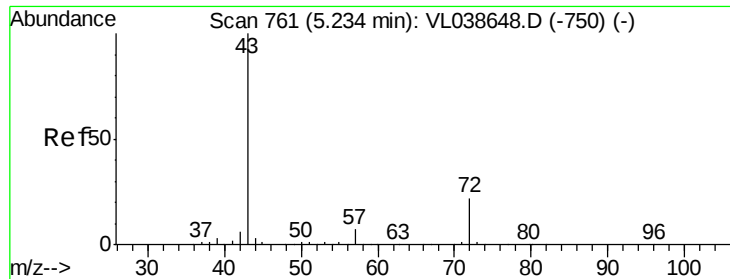
Reviewed By :Semsettin Yesilyurt 04/02/2022
 Supervised By :Mahesh Dadoda 04/04/2022



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VL038800.D
 Acq: 30 Mar 2022 18:43

Tgt Ion:114 Resp: 2258237
 Ion Ratio Lower Upper
 114 100
 63 22.1 19.4 29.0
 88 16.7 13.9 20.9



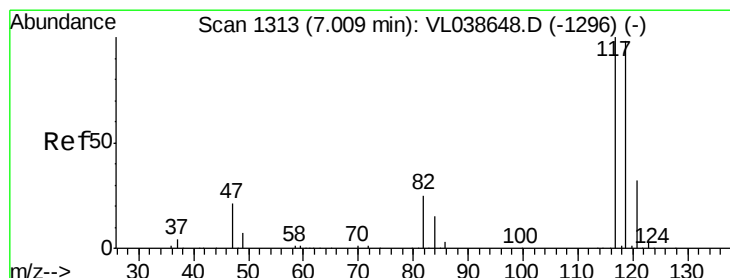
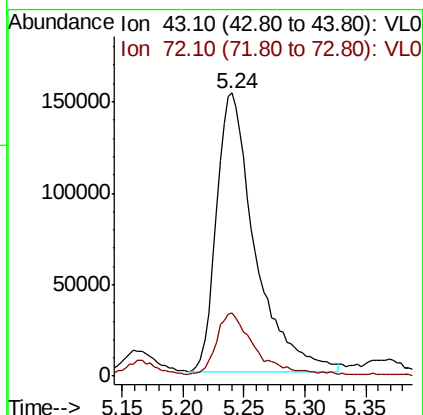
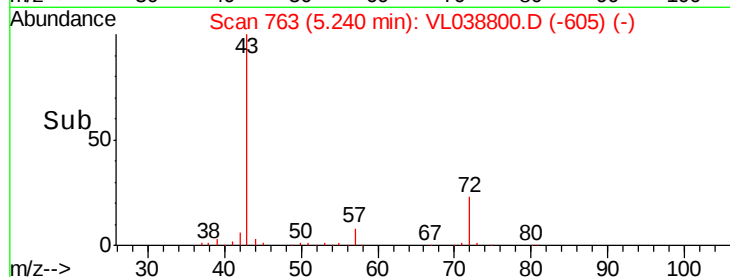
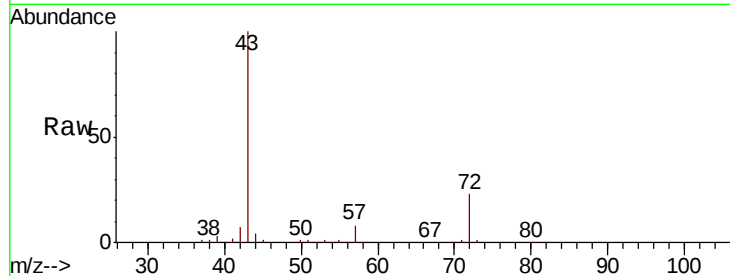


#34
2-Butanone
Concen: 3.807 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Mar 2022 18:43

Tot Ion:
Ion Ratio
43 100
72 23.

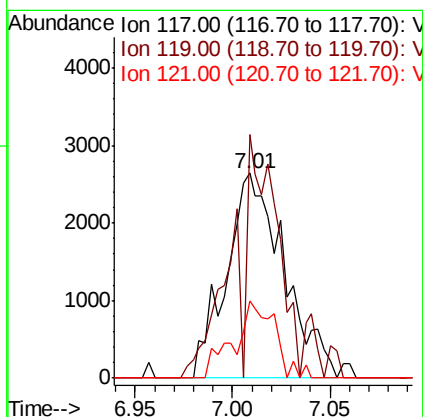
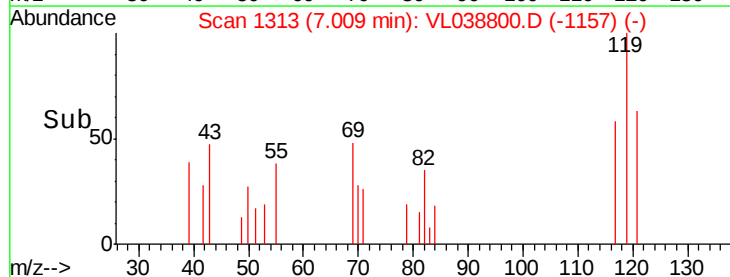
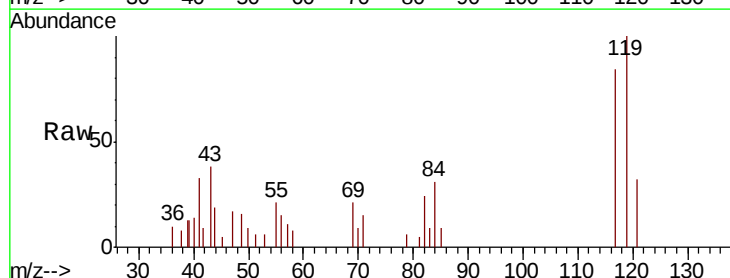
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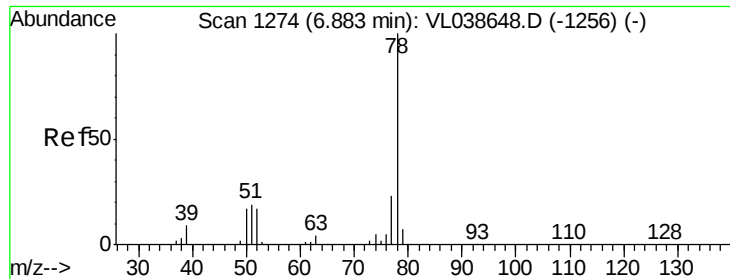
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion:117 Resp: 5471
Ion Ratio Lower Upper
117 100
119 118.9 78.1 117.1#
121 37.8 25.8 38.6



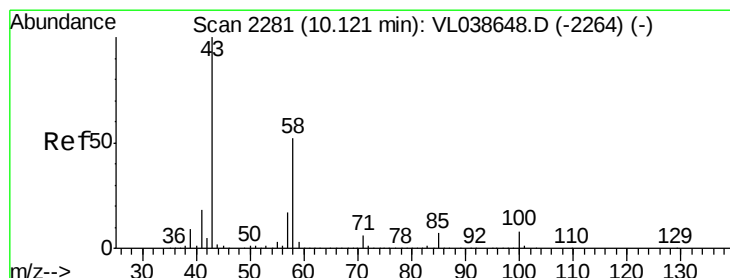
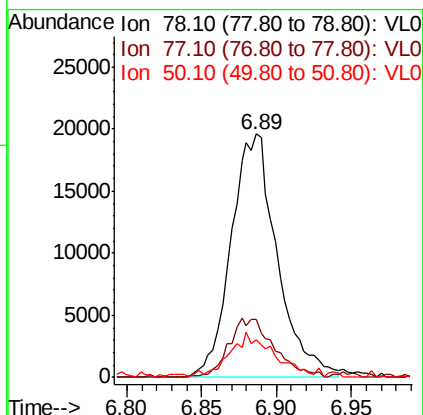
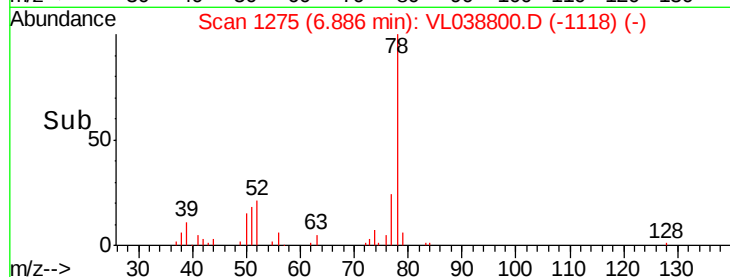
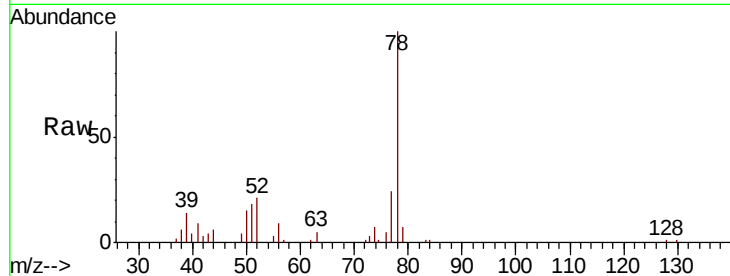


#36
Benzene
Concen: 0.241 ppbv
RT: 6.89
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SV4
Acq: 30 Mar 2022 18:43

Tot Ion:
Ion Ratio
78 100
77 22.
50 15.

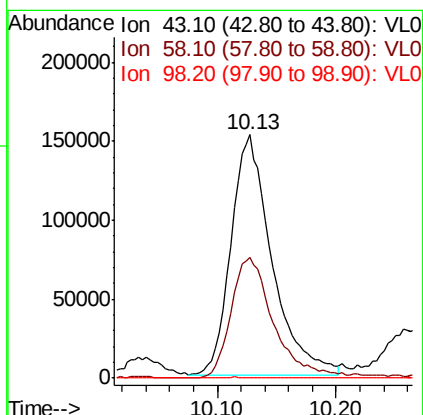
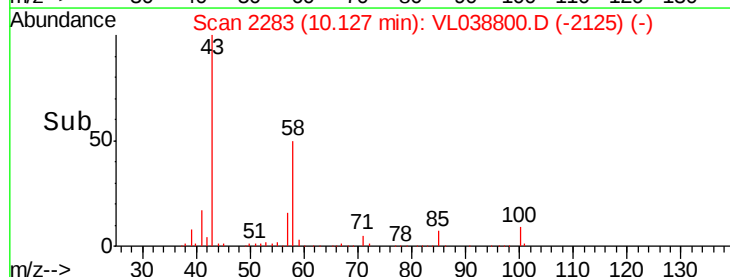
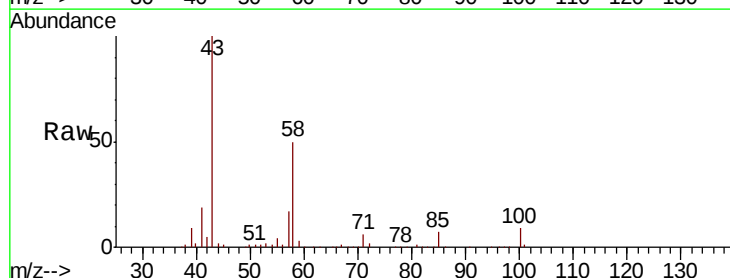
Manual Integrations
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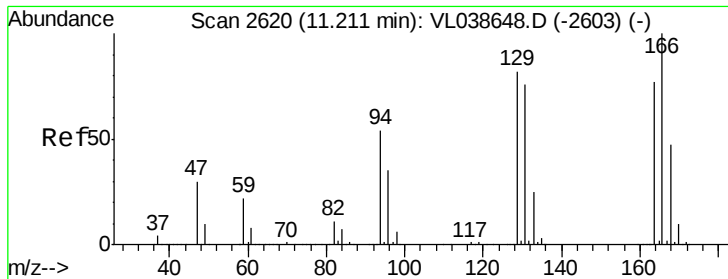
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#51
2-Hexanone
Concen: 3.038 ppbv
RT: 10.13 min Scan# 2283
Delta R.T. 0.01 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion: 43 Resp: 362620
Ion Ratio Lower Upper
43 100
58 53.4 41.2 61.8
98 0.3 0.2 0.4



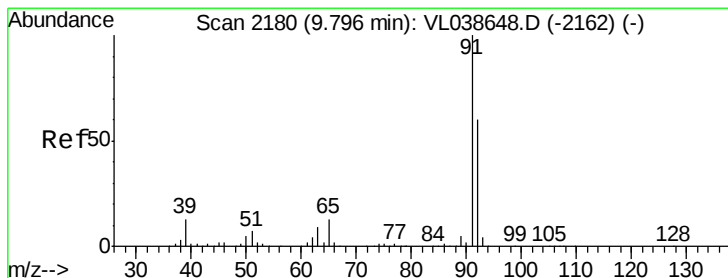
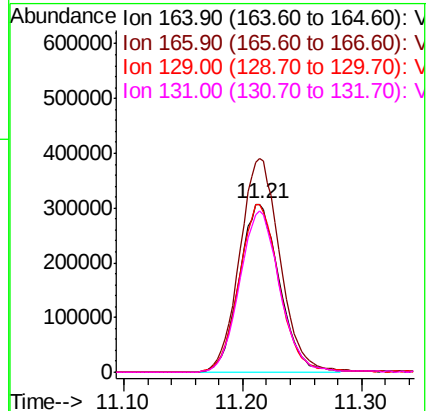
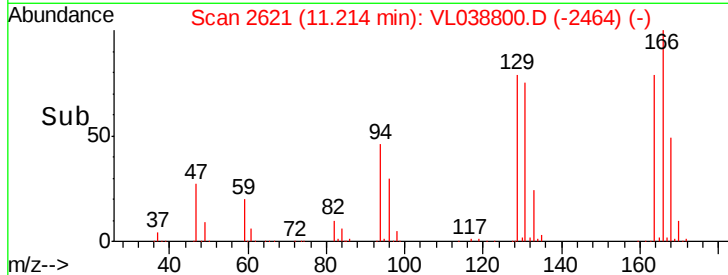
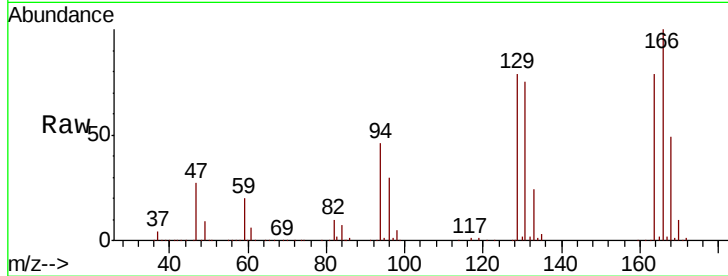


#52
Tetrachloroethene
Concen: 11.252 ppbv
RT: 11.21
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
SV4
Acq: 30 Mar 2022 18:43

Tot Ion: 1
Ion Ratio
164 100
166 127.
129 100.
131 95.6 78.3 117.5

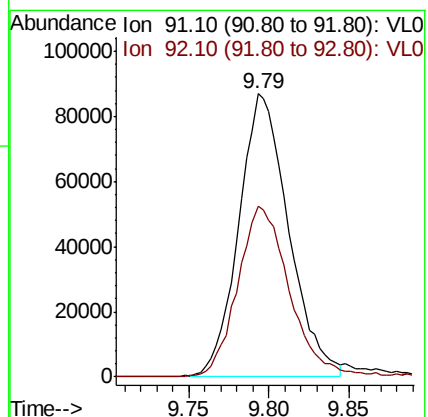
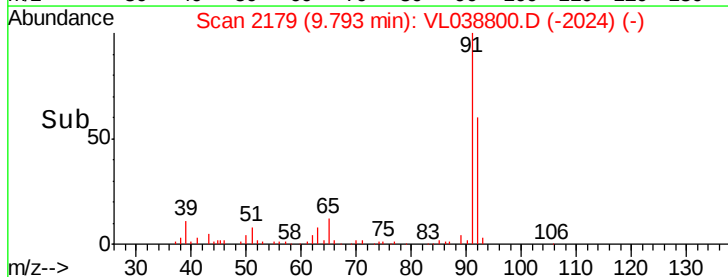
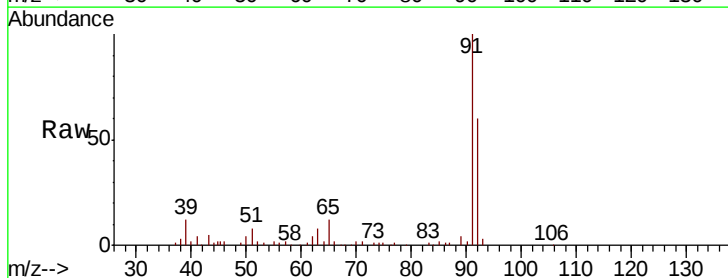
Manual Integrations
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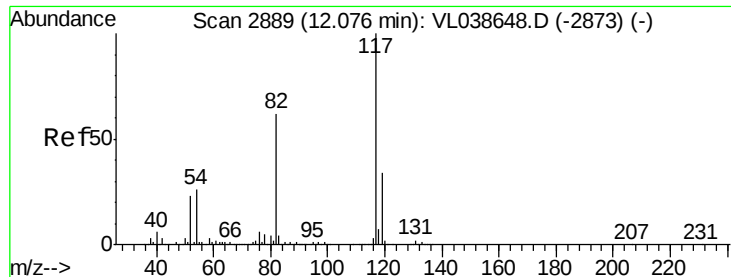
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#53
Toluene
Concen: 0.989 ppbv
RT: 9.79 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion: 91 Resp: 185289
Ion Ratio Lower Upper
91 100
92 63.2 48.7 73.1



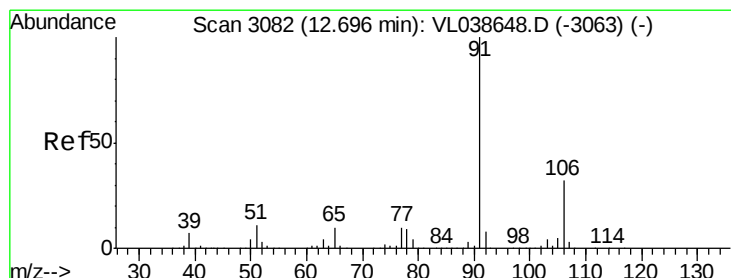
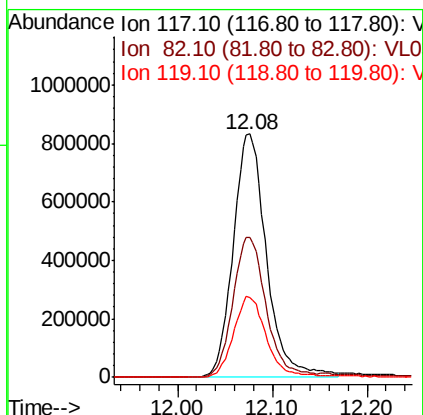
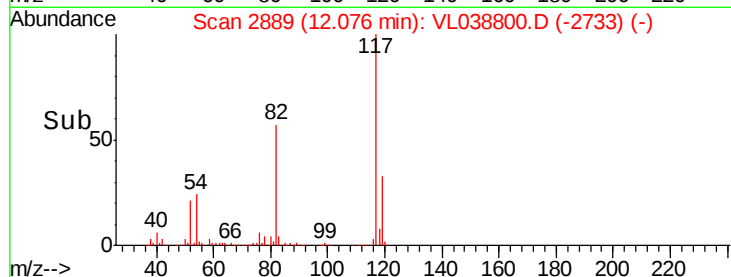
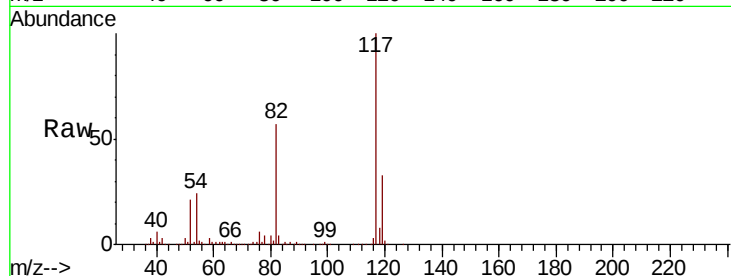


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
SV4
Acq: 30 Mar 2022 18:43

Tot Ion: 1
Ion Ratio
117 100
82 59.
119 34.

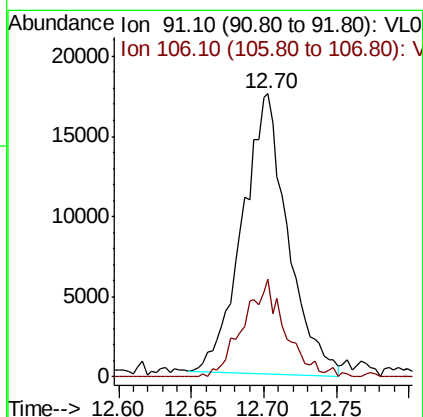
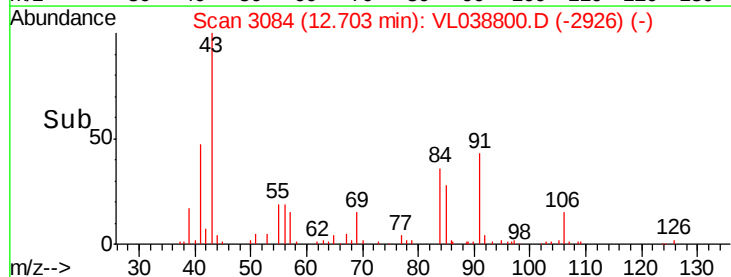
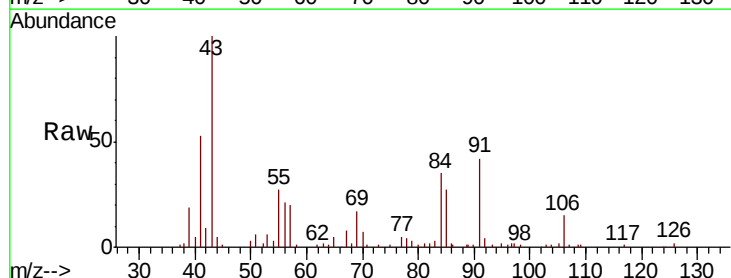
Manual Integrations
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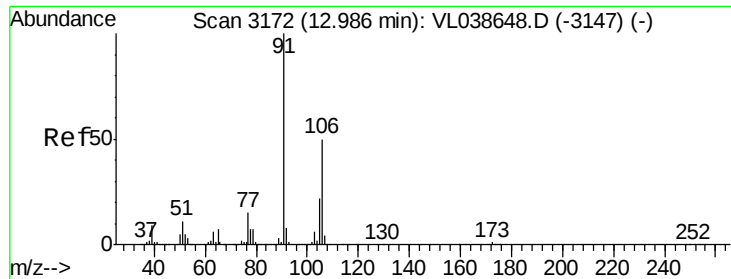
Reviewed By : Semsettin Yesilyurt 04/02/2022
Supervised By : Mahesh Dadoda 04/04/2022



#58
Ethyl Benzene
Concen: 0.160 ppbv
RT: 12.70 min Scan# 3084
Delta R.T.: 0.01 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion: 91 Resp: 38158
Ion Ratio Lower Upper
91 100
106 35.2 25.4 38.0



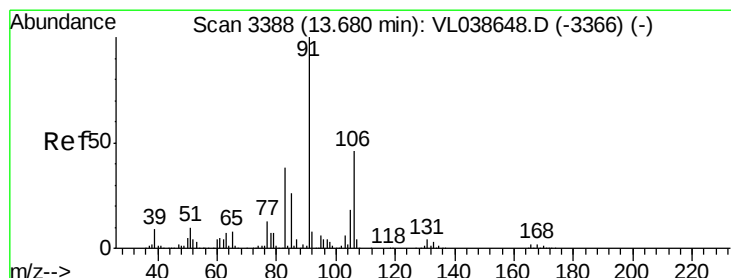
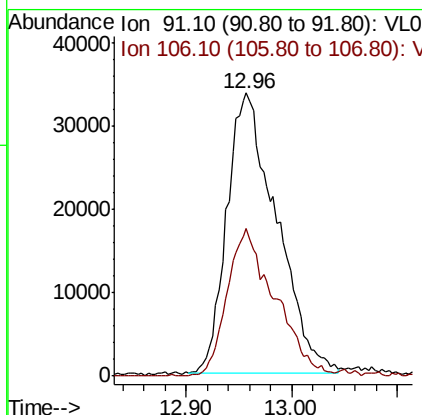
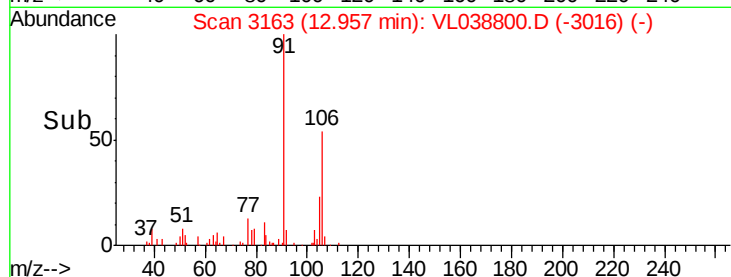
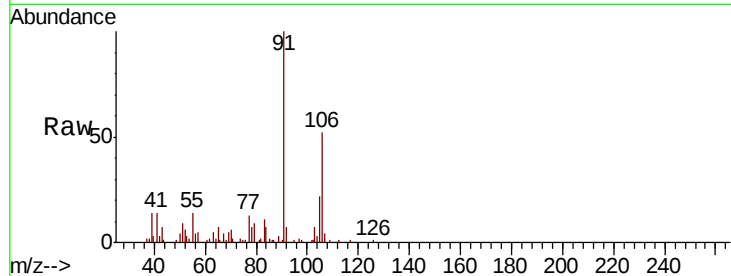


#59
m/p-Xylene
Concen: 0.524 ppbv
RT: 12.96 min
Delta R.T.: 0.00 min
Lab File: VL038648.D
Acq: 30 Mar 2022 18:43

Tot Ion:
Ion Ratio
91 100
106 51.

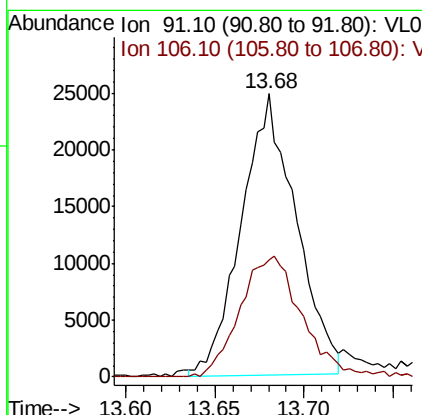
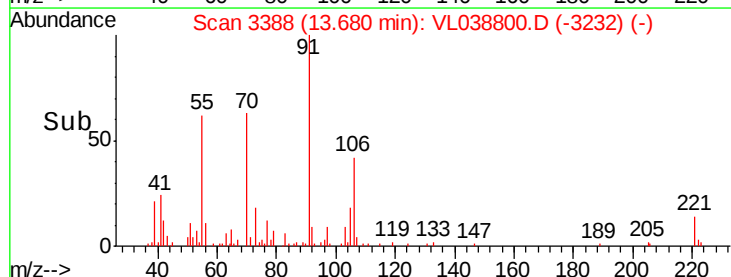
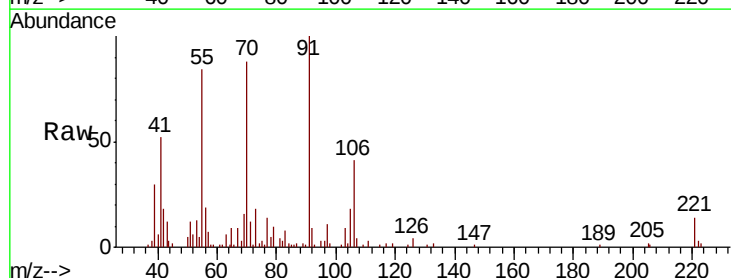
Manual Integrations
APPROVED

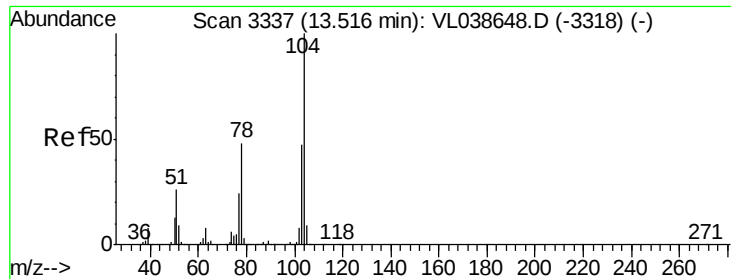
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#60
o-Xylene
Concen: 0.267 ppbv
RT: 13.68 min Scan# 3388
Delta R.T.: 0.00 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion: 91 Resp: 52939
Ion Ratio Lower Upper
91 100
106 48.8 23.5 70.5



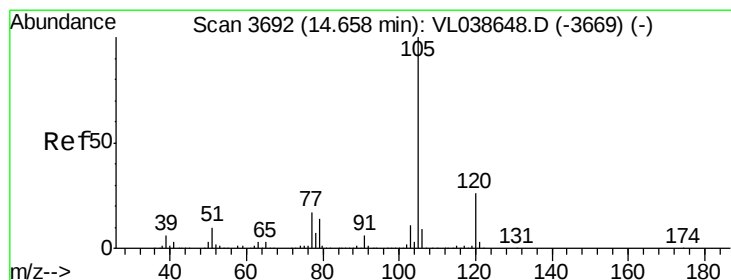
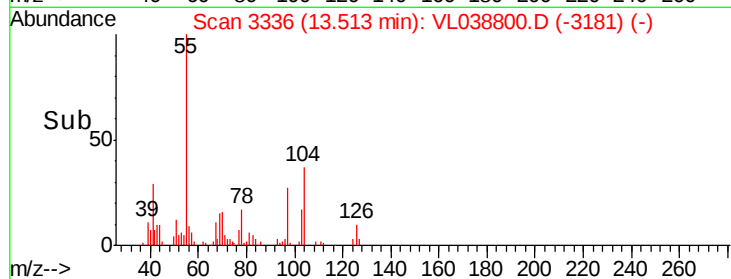
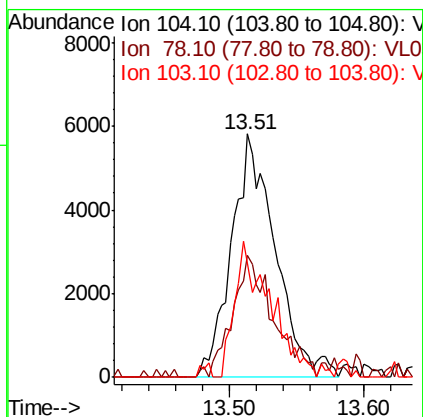
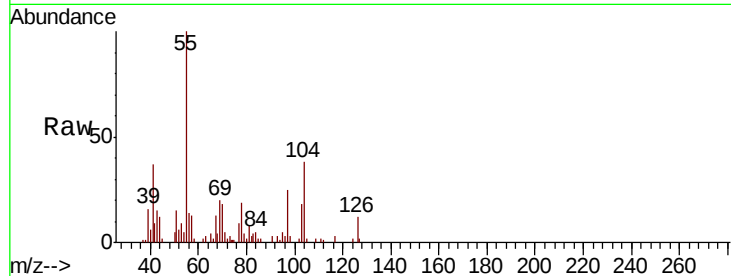


#61
Stvrene
Concen: 0.122 ppbv m
RT: 13.51
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4
Acq: 30 Mar 2022 18:43

Tot Ion:1
Ion Rati
104 100
78 52.
103 47.

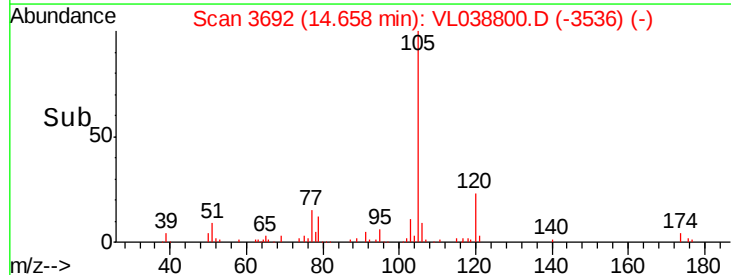
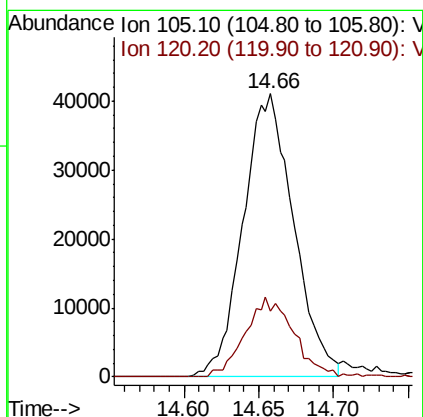
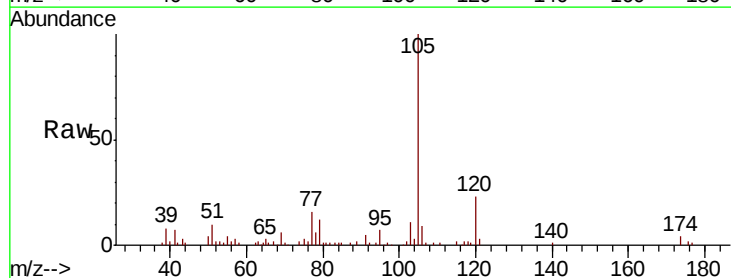
Manual Integrations
APPROVED

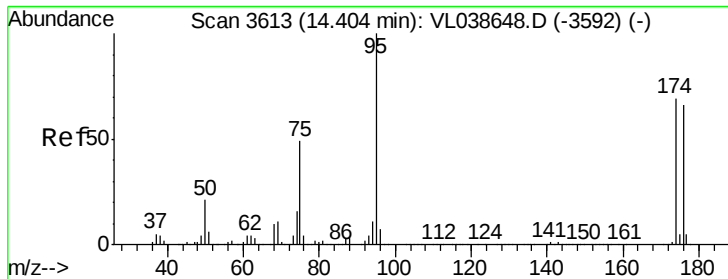
Reviewed By :Semsettin Yesilyurt 04/02/2022
Supervised By :Mahesh Dadoda 04/04/2022



#62
Isopropylbenzene
Concen: 0.323 ppbv
RT: 14.66 min Scan# 3692
Delta R.T. 0.00 min
Lab File: VL038800.D
Acq: 30 Mar 2022 18:43

Tgt Ion:105 Resp: 96423
Ion Ratio Lower Upper
105 100
120 27.2 21.2 31.8



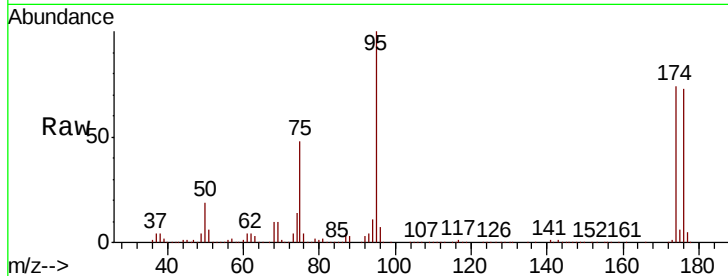


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.381 ppbv
 RT: 14.40 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Mar 2022 18:43

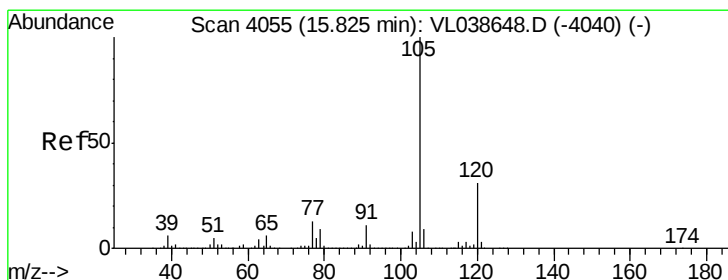
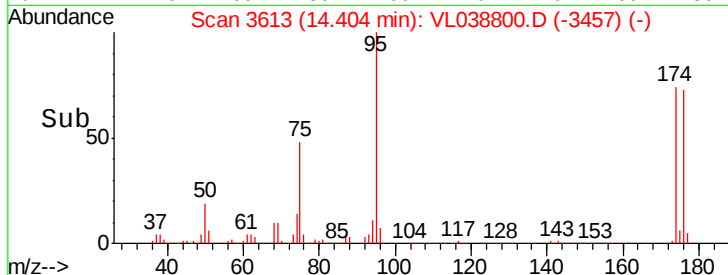
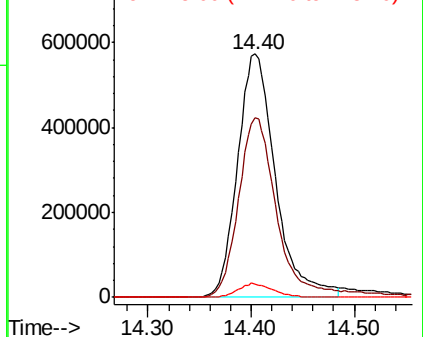
Tot Ion:
 Ion Ratio
 95 100
 174 77.
 175 5.

Manual Integrations
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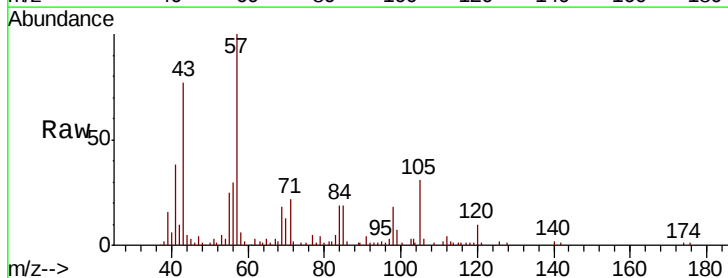


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

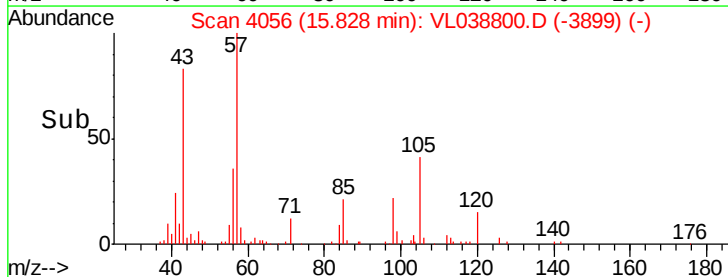
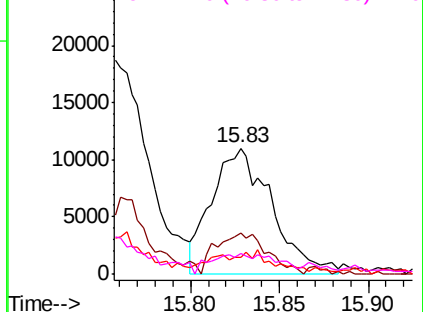


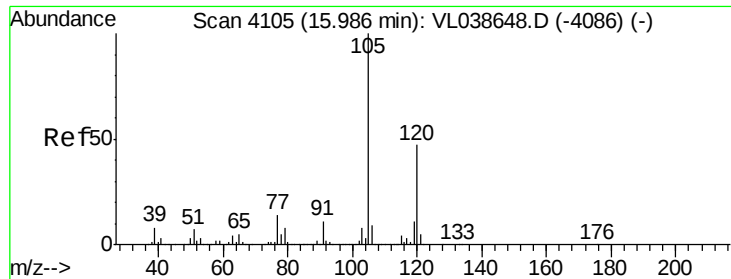
#72
 4-Ethyltoluene
 Concen: 0.111 ppbv m
 RT: 15.83 min Scan# 4056
 Delta R.T. 0.00 min
 Lab File: VL038800.D
 Acq: 30 Mar 2022 18:43

Tgt Ion:105 Resp: 25907
 Ion Ratio Lower Upper
 105 100
 120 30.1 24.9 37.3
 91 0.0 9.8 14.6#
 77 17.6 10.6 16.0#



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



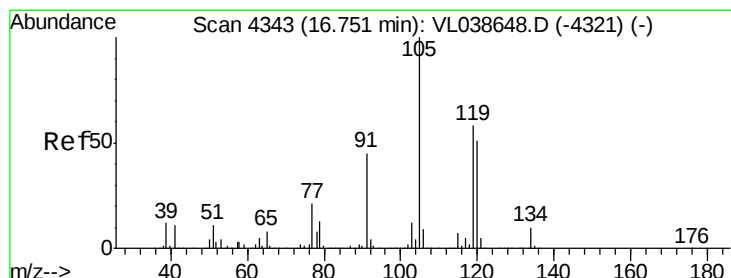
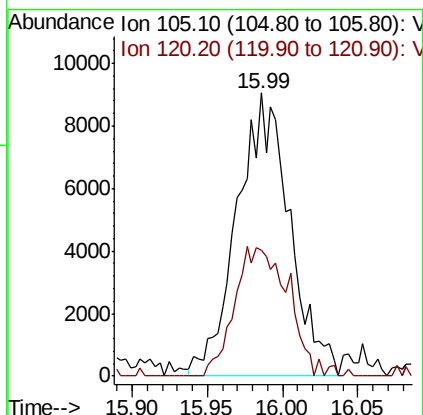
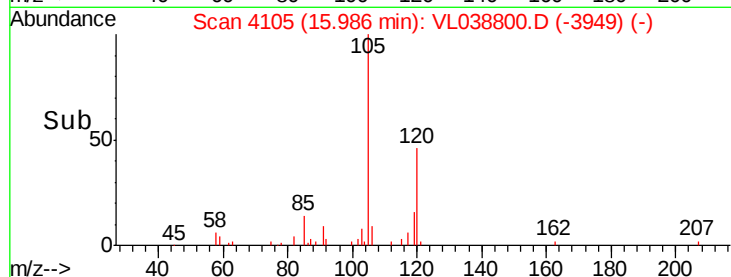
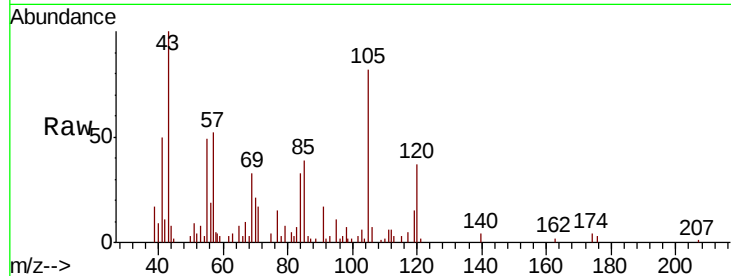


#73
 1,3,5-Trimethylbenzene
 Concen: 0.103 ppbv m
 RT: 15.99
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 SV4
 Acq: 30 Mar 2022 18:43

Tot Ion:1
 Ion Rati
 105 100
 120 44.

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



#74
 1,2,4-Trimethylbenzene
 Concen: 0.333 ppbv m
 RT: 16.74 min Scan# 4341
 Delta R.T. -0.01 min
 Lab File: VL038800.D
 Acq: 30 Mar 2022 18:43

Tgt Ion:105 Resp: 77395
 Ion Ratio Lower Upper
 105 100
 120 38.7 40.5 60.7#
 91 13.2 35.9 53.9#
 77 14.9 16.6 25.0#

