

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038975.D
 Acq On : 5 May 2022 16:41
 Operator : SY/AP
 Sample : N2698-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022
 Supervised By :Mahesh Dadoda 05/09/2022

Quant Time: May 06 08:24:30 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A

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

QLast Update : Thu May 05 07:41:27 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1176861	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3044836	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2676954	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2155605	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	88275	0.479	ppbv	100
3) Chlorodifluoromethane	2.99	51	42136m	0.289	ppbv	
4) Chloromethane	3.14	50	12469	0.171	ppbv	99
9) Propene	3.01	41	272728	4.277	ppbv #	79
10) Heptane	8.11	43	156099	0.998	ppbv	95
11) Trichlorofluoromethane	3.95	101	44093	0.279	ppbv	93
13) Ethanol	3.60	45	130146	26.133	ppbv	95
15) Acetone	3.84	43	5777039	52.039	ppbv	97
17) tert-Butyl alcohol	4.29	59	32144	0.377	ppbv #	70
19) Isopropyl Alcohol	3.96	45	151680	2.874	ppbv #	95
20) Methylene Chloride	4.34	84	474044	11.330	ppbv	91
26) Hexane	5.68	57	844958	7.157	ppbv #	38
27) Carbon Disulfide	4.55	76	303631	2.707	ppbv	99
30) Cyclohexane	7.12	84	66263m	0.670	ppbv	
34) 2-Butanone	5.23	43	1685386	10.850	ppbv	95
35) Carbon Tetrachloride	7.01	117	13560m	0.068	ppbv	
36) Benzene	6.89	78	134843m	0.517	ppbv	
38) Trichloroethene	7.82	130	13621m	0.118	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	271384	0.594	ppbv #	58
50) 4-Methyl-2-Pentanone	8.74	43	76652	0.281	ppbv #	87
51) 2-Hexanone	10.12	43	600679	3.021	ppbv #	98
52) Tetrachloroethene	11.21	164	753812m	8.095	ppbv	
53) Toluene	9.80	91	461087	1.579	ppbv	100
58) Ethyl Benzene	12.70	91	341487	0.886	ppbv	93
59) m/p-Xylene	12.96	91	1152363	3.504	ppbv	97
60) o-Xylene	13.68	91	423935	1.370	ppbv	98
61) Styrene	13.51	104	37120m	0.225	ppbv	
62) Isopropylbenzene	14.66	105	157841	0.399	ppbv	92
69) p-Isopropyltoluene	17.63	119	72638m	0.159	ppbv	
72) 4-Ethyltoluene	15.83	105	108269	0.307	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.99	105	159042	0.501	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	329283	0.947	ppbv #	66

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

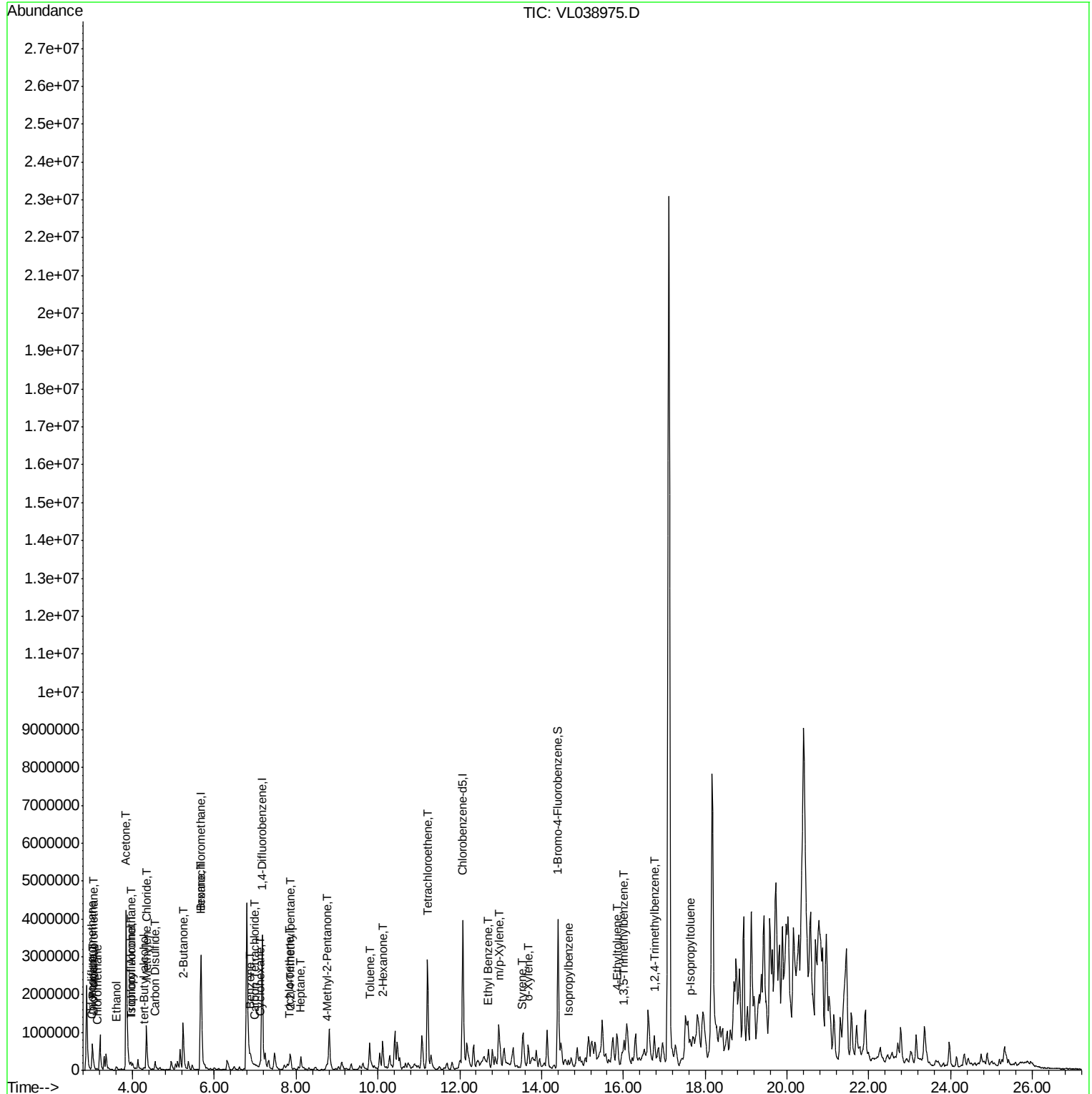
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050522\
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Manual Integrations
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu May 05 07:41:27 2022
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 16:41

Tot Ion:

Ion Ratio

49 100

128 47.

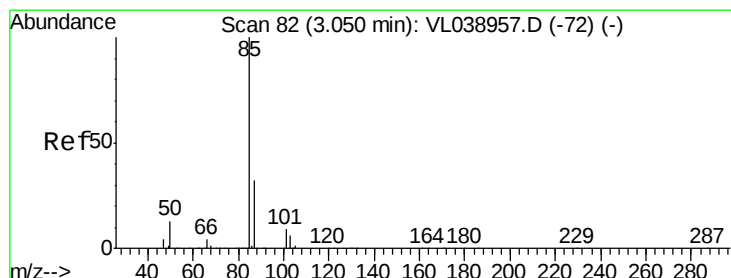
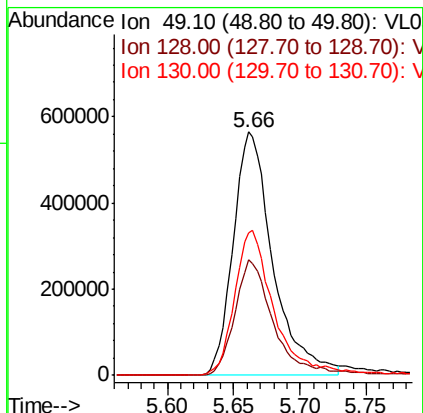
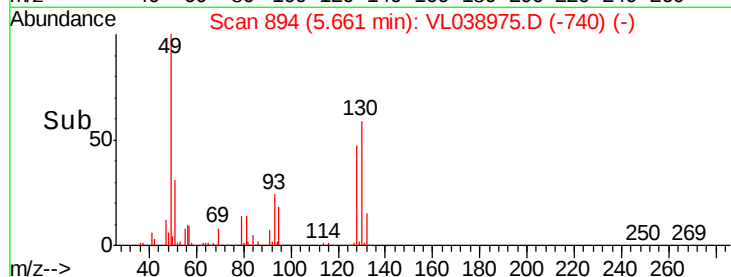
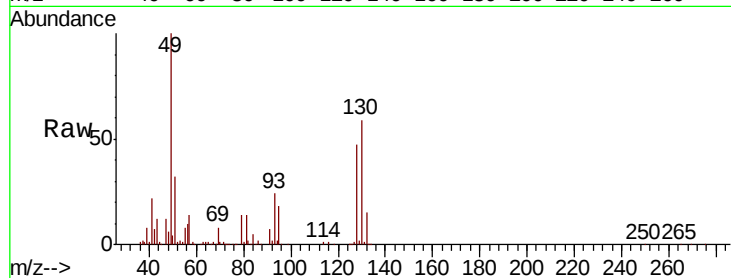
130 60.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#2

Dichlorodifluoromethane

Concen: 0.479 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038975.D

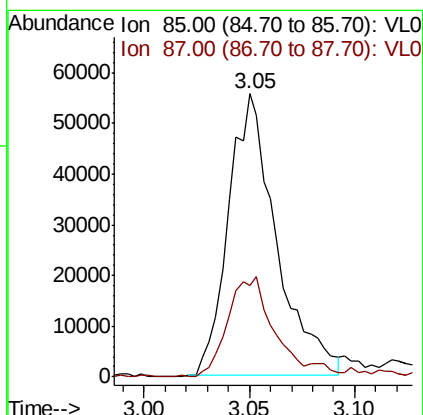
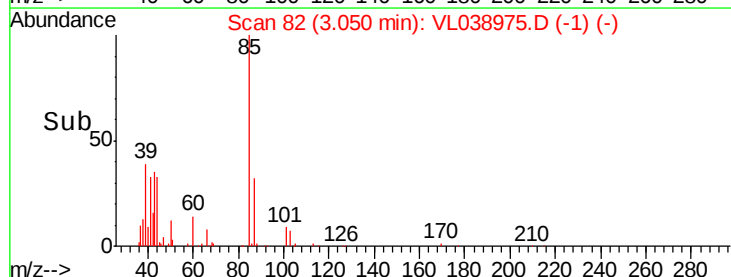
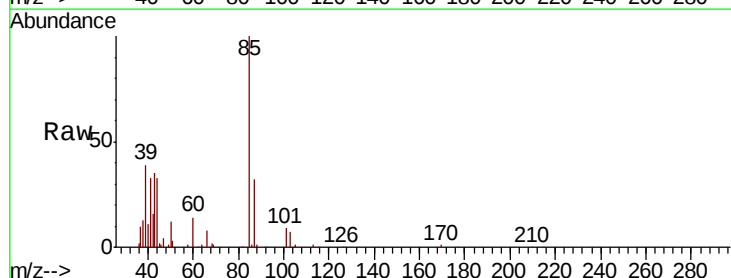
Acq: 5 May 2022 16:41

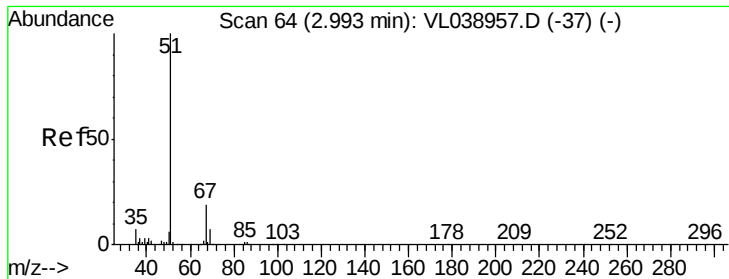
Tgt Ion: 85 Resp: 88275

Ion Ratio Lower Upper

85 100

87 32.1 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.289 ppbv m

RT: 2.99 Instrument: MSVOA_1

Delta R.T. -0.00 min

Lab File: ClientSampleId: SV2

Acq: 5 May 2022 16:41

Tot Ion:

Ion Ratio

51 100

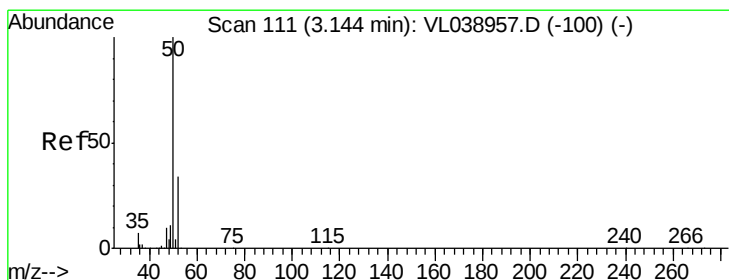
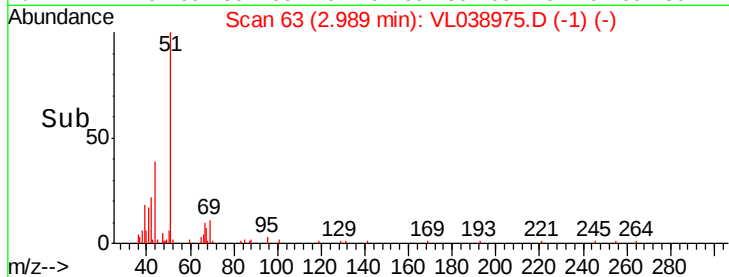
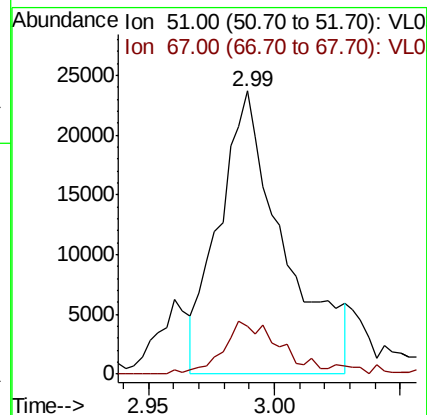
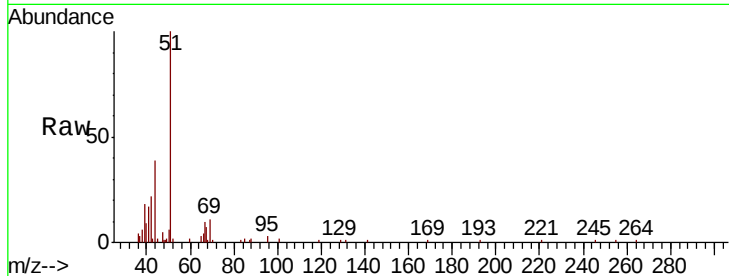
67 19.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#4

Chloromethane

Concen: 0.171 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038975.D

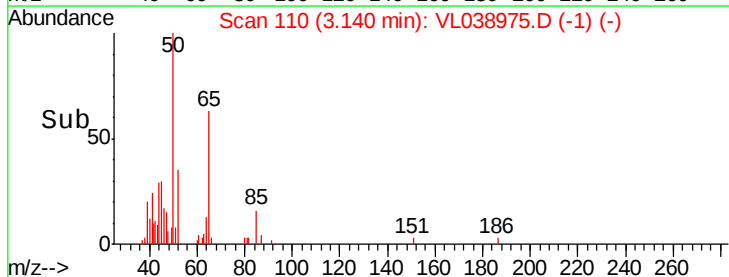
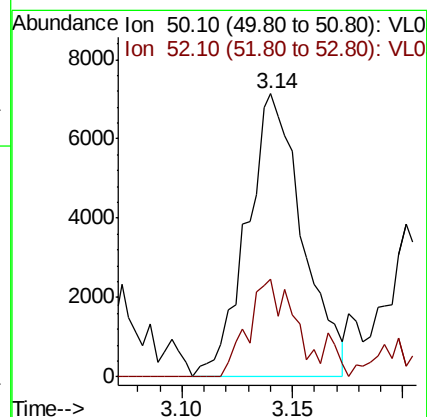
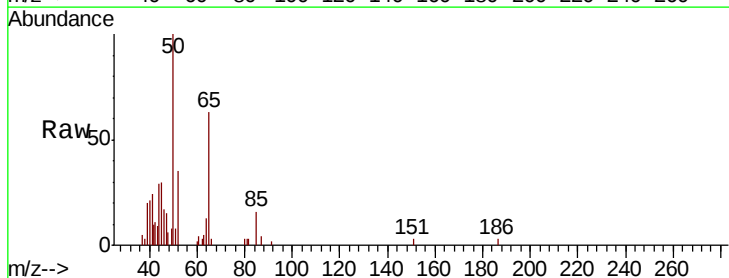
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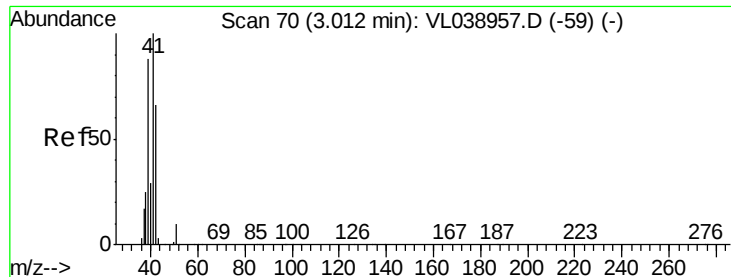
Tgt Ion: 50 Resp: 12469

Ion Ratio Lower Upper

50 100

52 34.5 27.3 40.9



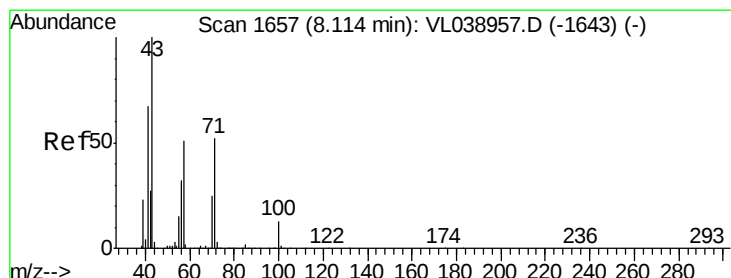
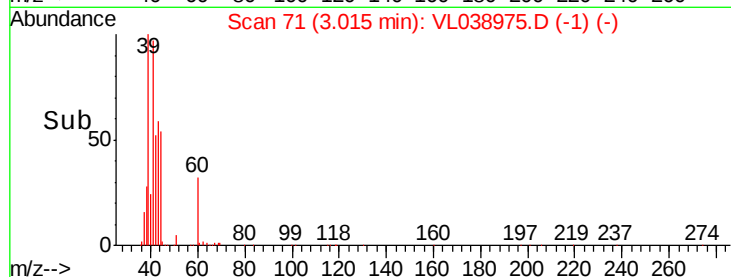
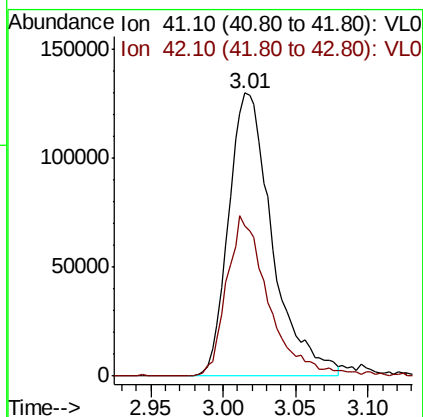
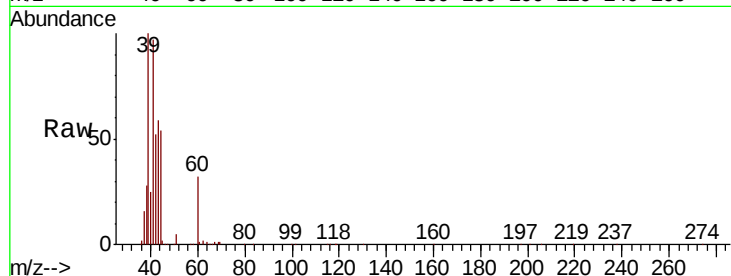


#9
 Propene
 Concen: 4.277 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 16:41

Tot Ion:
 Ion Ratio
 41 100
 42 55.

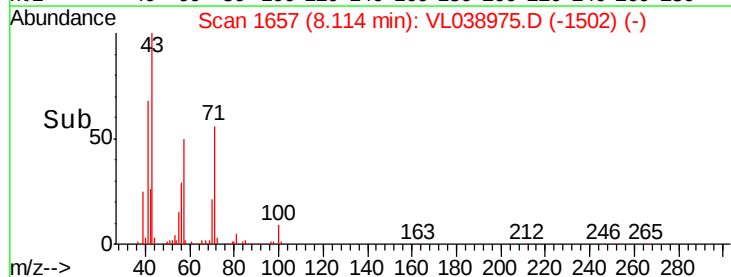
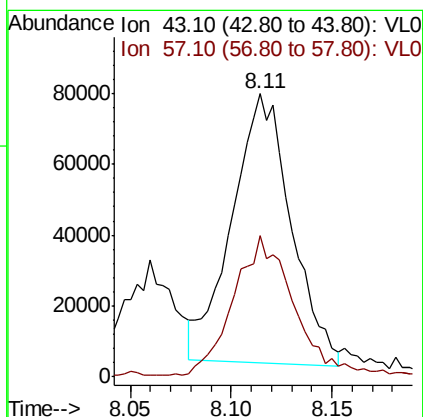
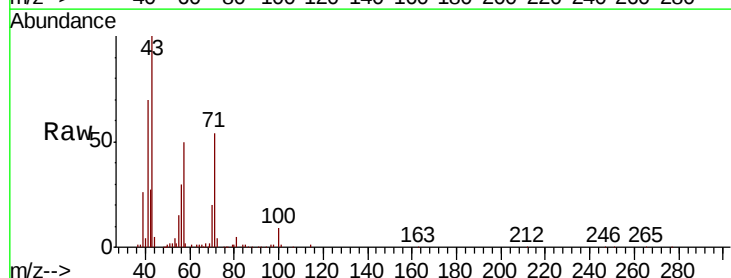
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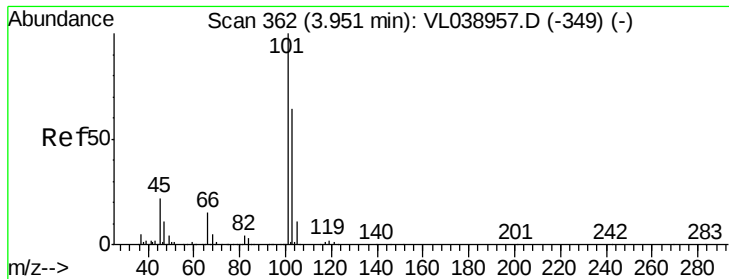
Reviewed By :Semsettin Yesilyurt 05/07/2022
 Supervised By :Mahesh Dadoda 05/09/2022



#10
 Heptane
 Concen: 0.998 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. -0.00 min
 Lab File: VL038975.D
 Acq: 5 May 2022 16:41

Tgt Ion: 43 Resp: 156099
 Ion Ratio Lower Upper
 43 100
 57 53.8 40.5 60.7



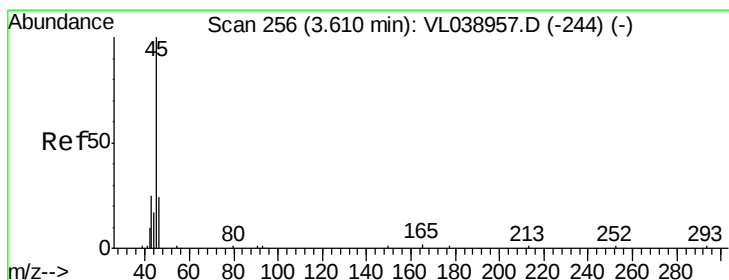
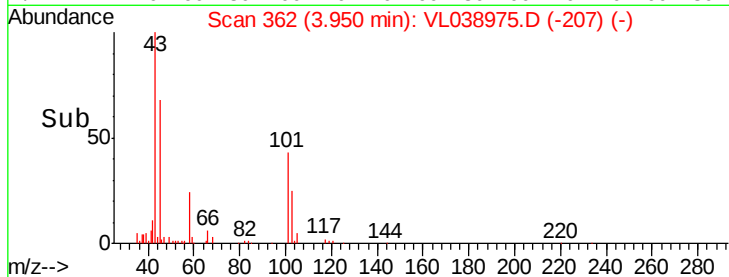
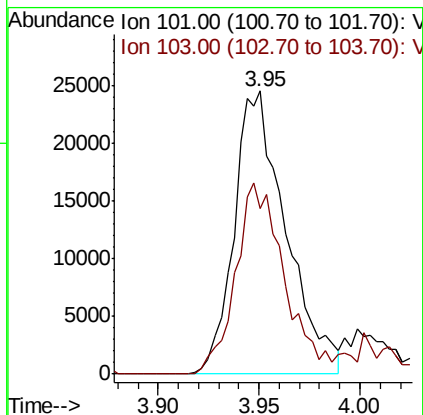
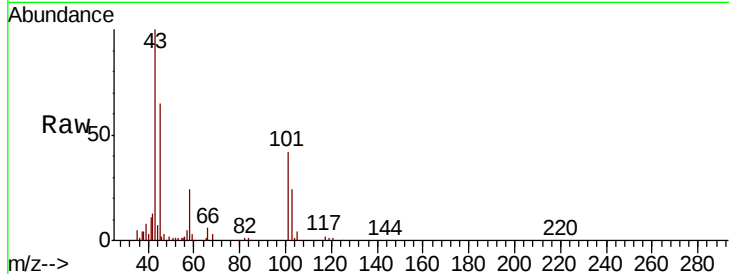


#11
 Trichlorofluoromethane
 Concen: 0.279 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV2
 Acq: 5 May 2022 16:41

Tot Ion:1
 Ion Rati
 101 100
 103 58.

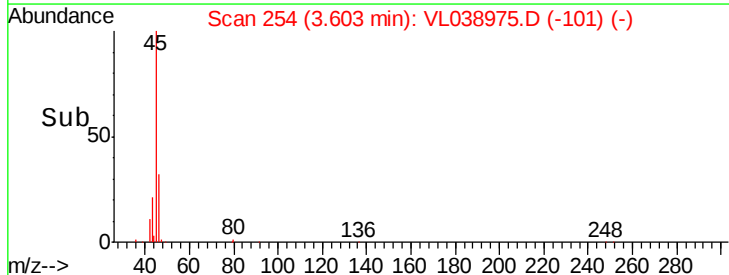
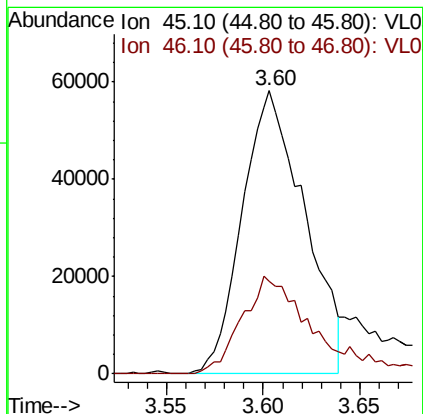
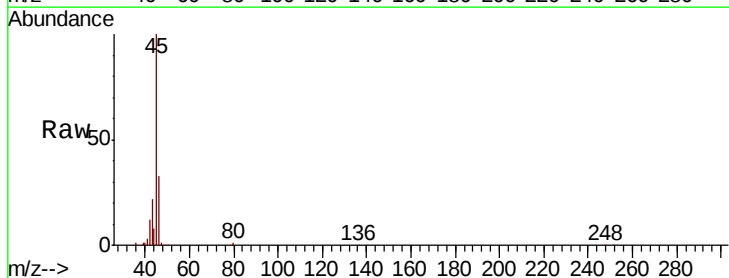
Manual Integrations
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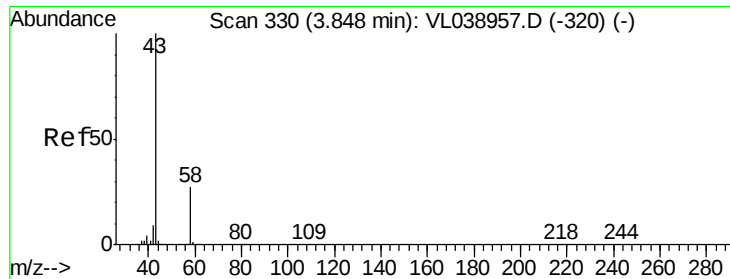
Reviewed By :Semsettin Yesilyurt 05/07/2022
 Supervised By :Mahesh Dadoda 05/09/2022



#13
 Ethanol
 Concen: 26.133 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL038975.D
 Acq: 5 May 2022 16:41

Tgt Ion: 45 Resp: 130146
 Ion Ratio Lower Upper
 45 100
 46 41.9 18.0 72.2



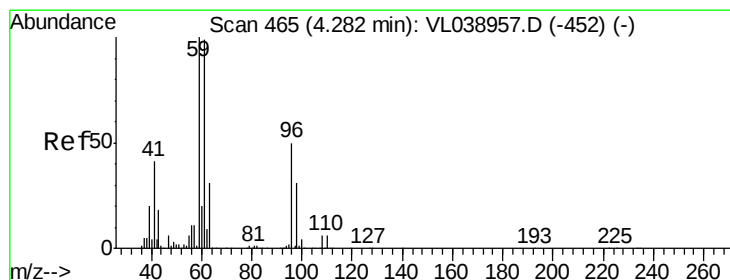
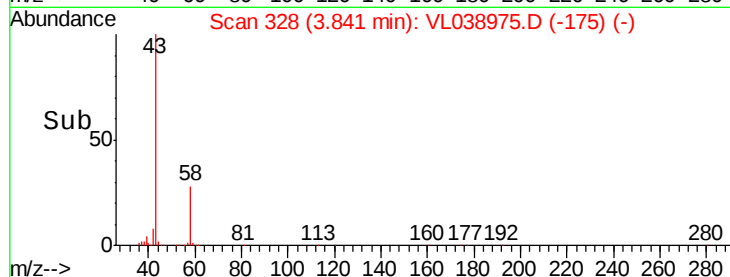
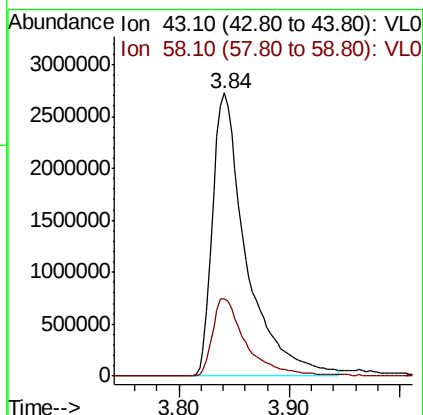
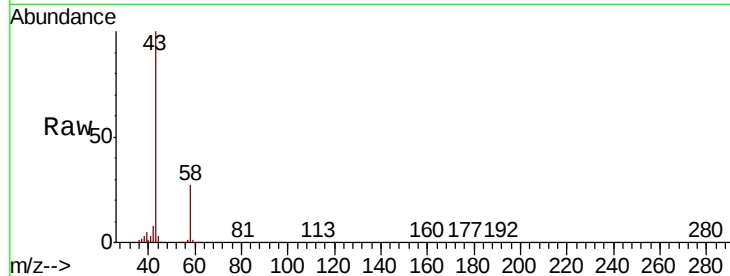


#15
Acetone
Concen: 52.039 ppbv
RT: 3.84
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV2
Acq: 5 May 2022 16:41

Tot Ion:
Ion Ratio
43 100
58 28.

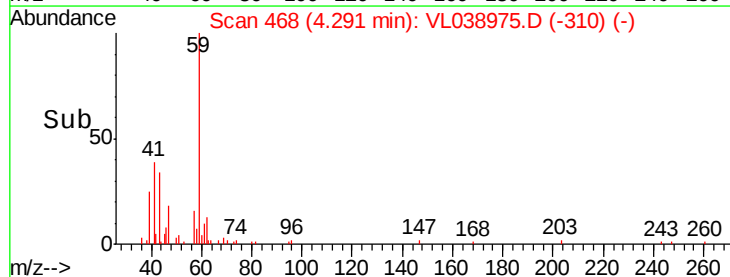
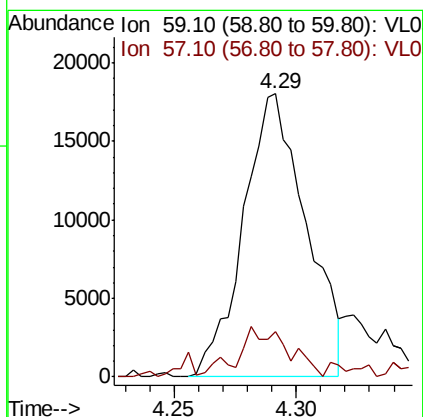
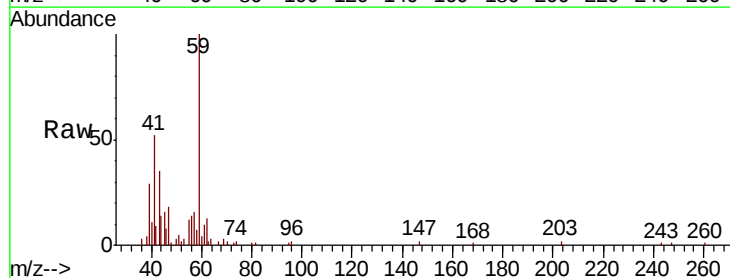
Manual Integrations
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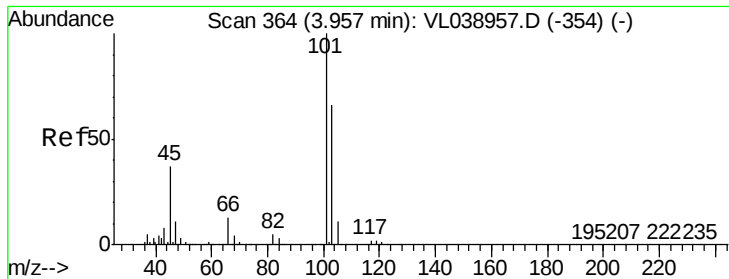
Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022



#17
tert-Butyl alcohol
Concen: 0.377 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.01 min
Lab File: VL038975.D
Acq: 5 May 2022 16:41

Tgt Ion: 59 Resp: 32144
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8#





#19

Isopropyl Alcohol

Concen: 2.874 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 16:41

Tot Ion:

Ion Ratio

45 100

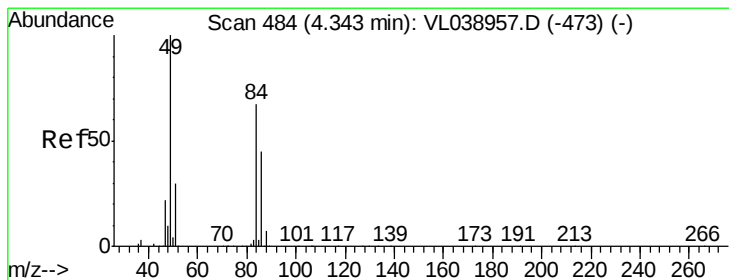
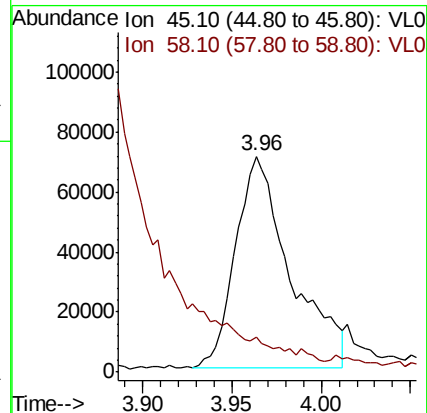
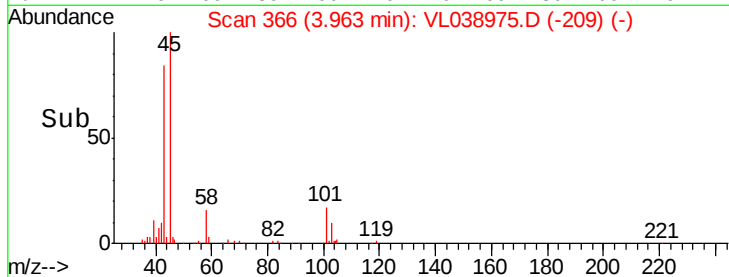
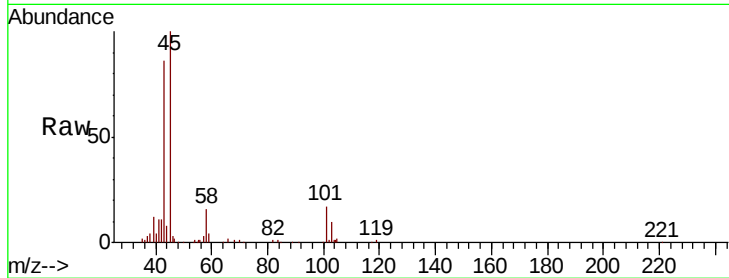
58 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#20

Methylene Chloride

Concen: 11.330 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038975.D

Acq: 5 May 2022 16:41

Tgt Ion: 84 Resp: 474044

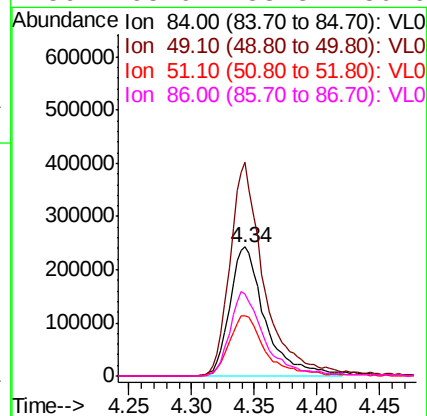
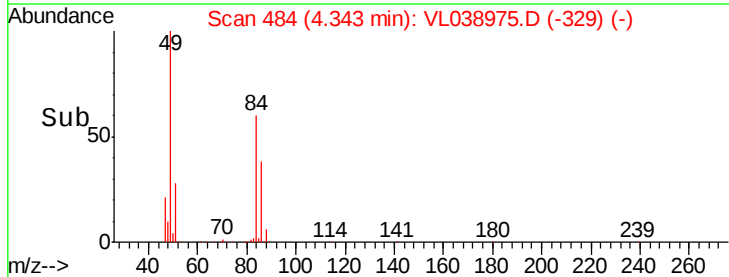
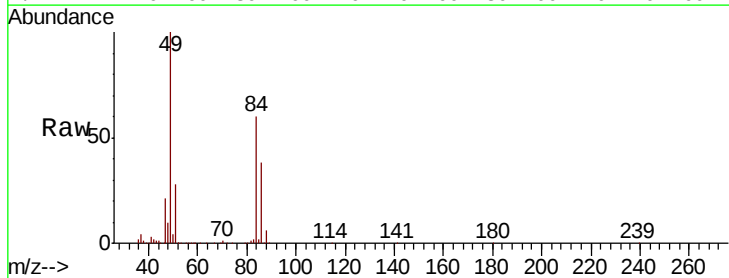
Ion Ratio Lower Upper

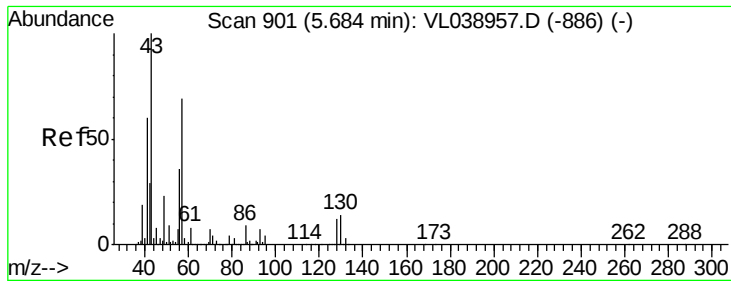
84 100

49 165.6 119.9 179.9

51 46.9 35.7 53.5

86 63.9 53.8 80.6

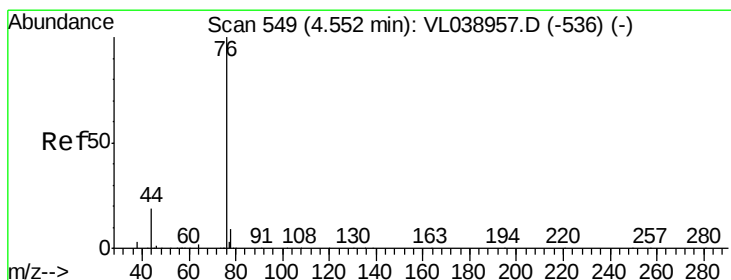
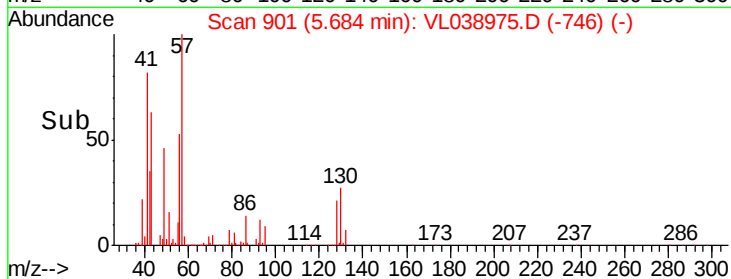
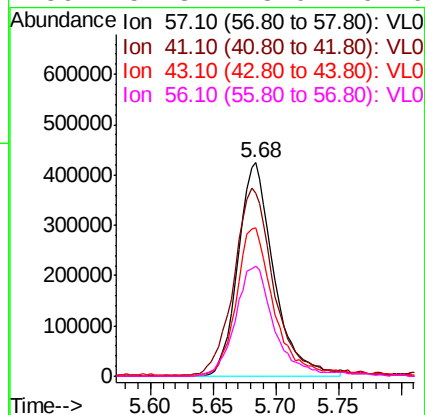
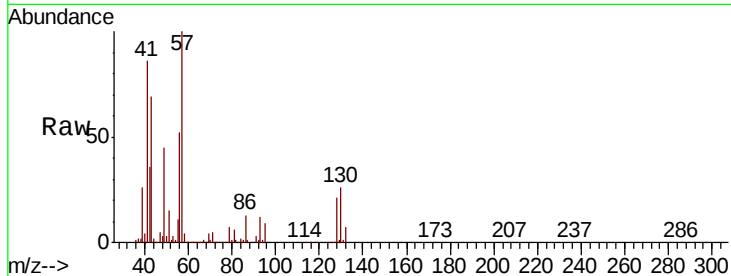




#26
Hexane
Concen: 7.157 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV2
Acq: 5 May 2022 16:41

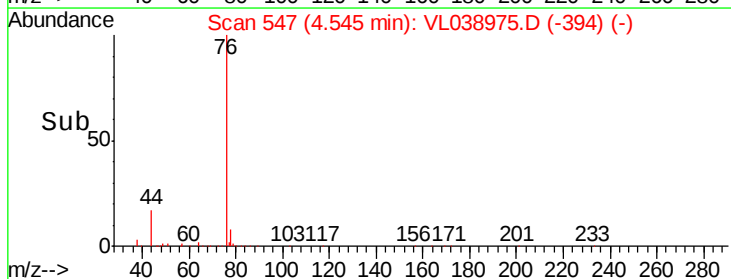
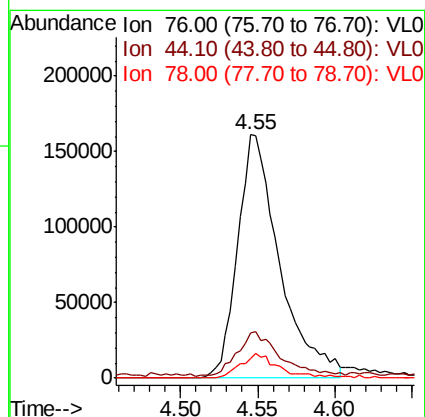
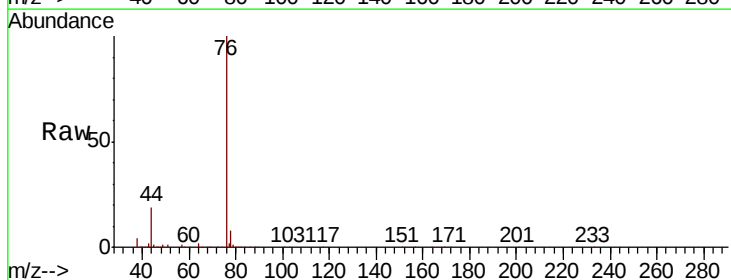
Tot Ion: Manual Integrations
Ion Ratio APPROVED
57 100
41 99.
43 73.
56 57.3 43.0 64.6

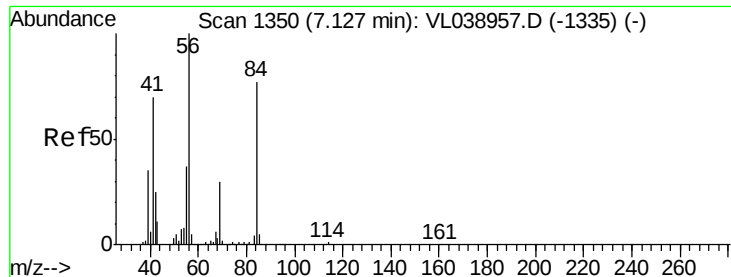
Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022



#27
Carbon Disulfide
Concen: 2.707 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.01 min
Lab File: VL038975.D
Acq: 5 May 2022 16:41

Tgt Ion: 76 Resp: 303631
Ion Ratio Lower Upper
76 100
44 19.8 15.3 22.9
78 9.8 8.2 12.2



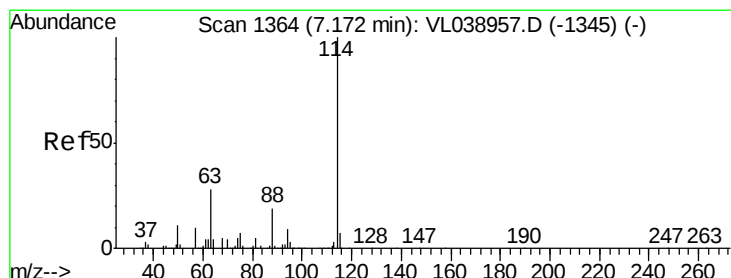
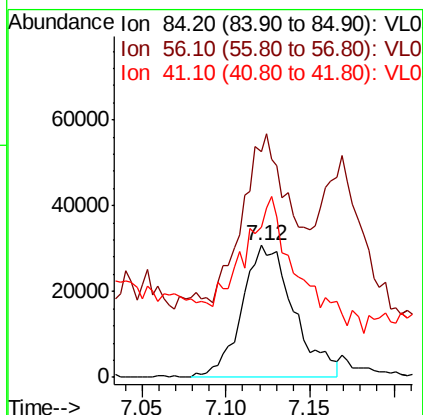
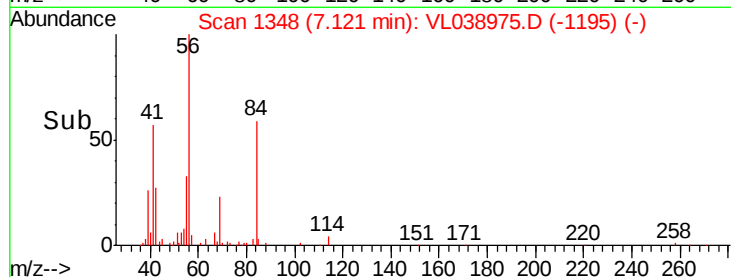
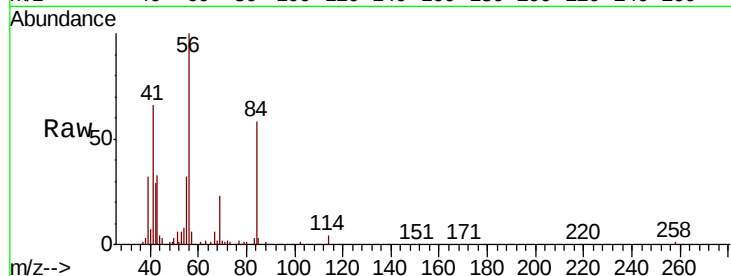


#30
Cvclohexane
Concen: 0.670 ppbv m
RT: 7.12
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
Acq: 5 May 2022 16:41

Tot Ion:
Ion Ratio
84 100
56 218.
41 0.

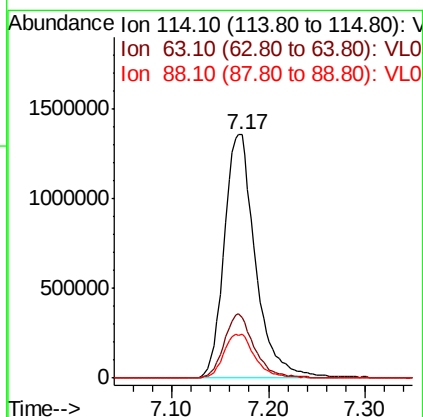
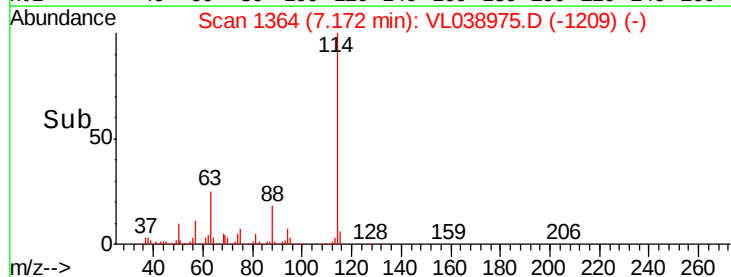
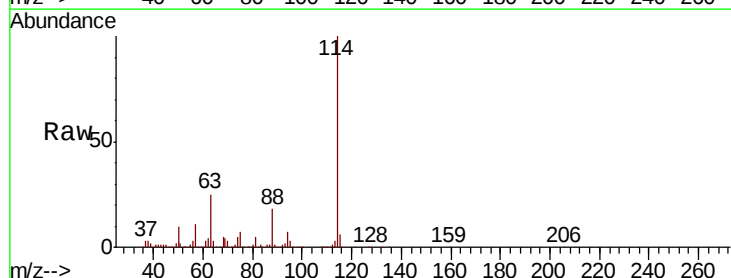
Manual Integrations
APPROVED

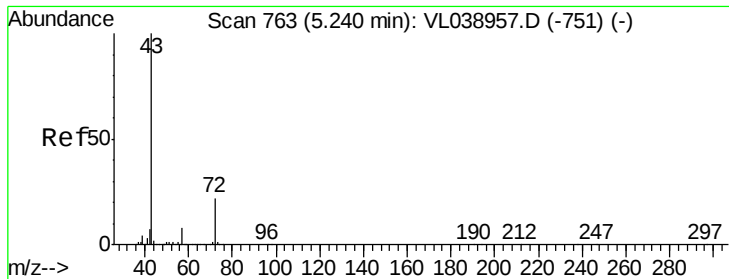
Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL038975.D
Acq: 5 May 2022 16:41

Tgt Ion:114 Resp: 3044836
Ion Ratio Lower Upper
114 100
63 25.8 22.6 33.8
88 18.4 15.4 23.0



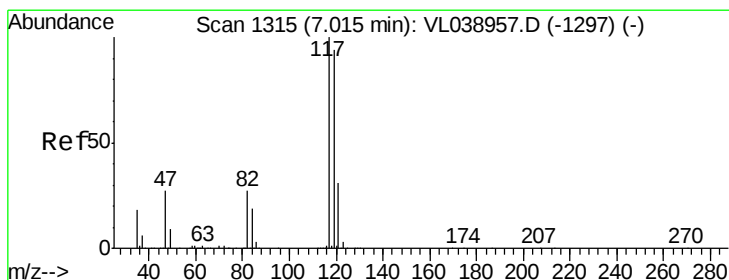
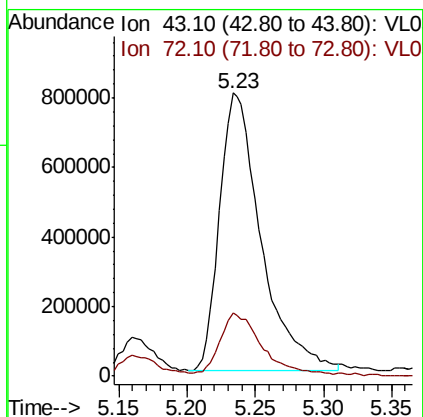
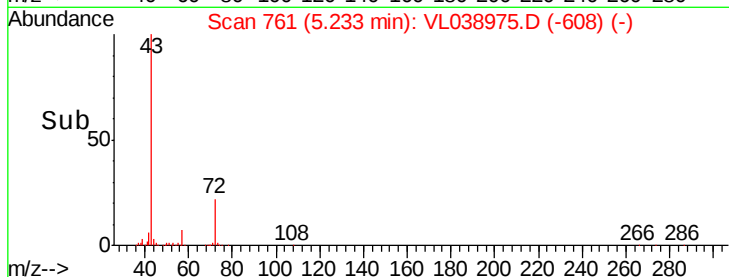
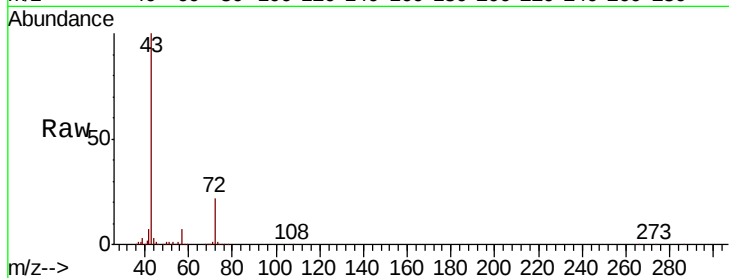


#34
2-Butanone
Concen: 10.850 ppbv
RT: 5.23
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 16:41

Tot Ion:
Ion Ratio
43 100
72 24.

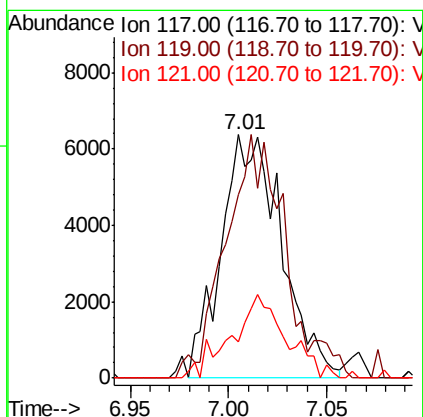
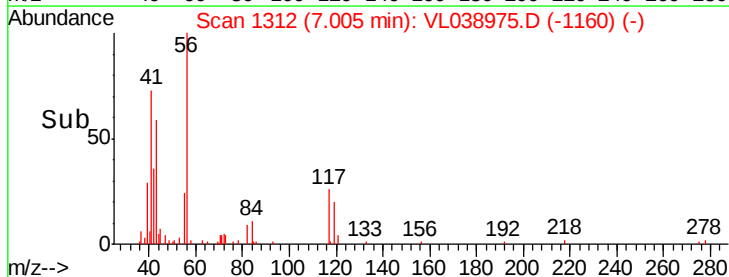
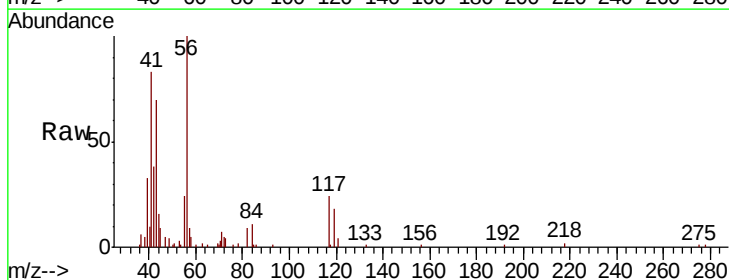
Manual Integrations
APPROVED

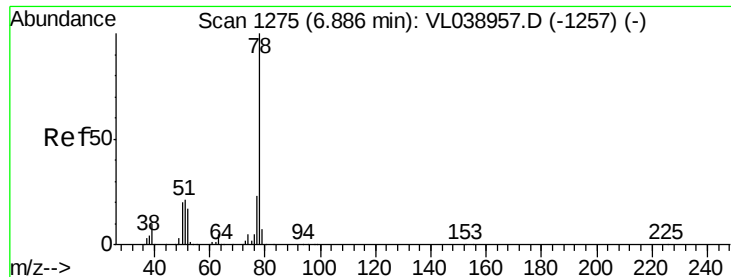
Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022



#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. -0.01 min
Lab File: VL038975.D
Acq: 5 May 2022 16:41

Tgt Ion:117 Resp: 13560
Ion Ratio Lower Upper
117 100
119 75.3 75.2 112.8
121 15.1 24.6 37.0#



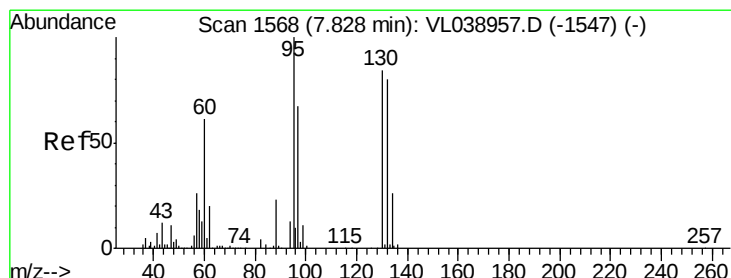
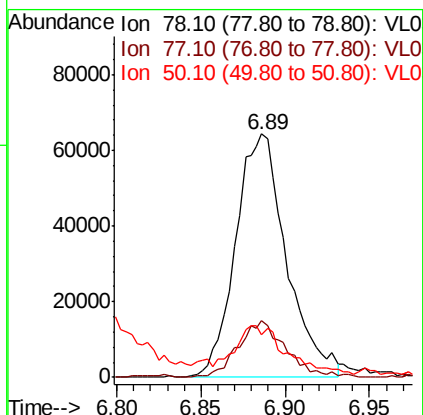
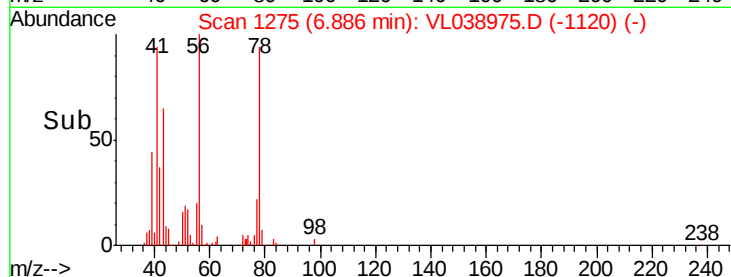
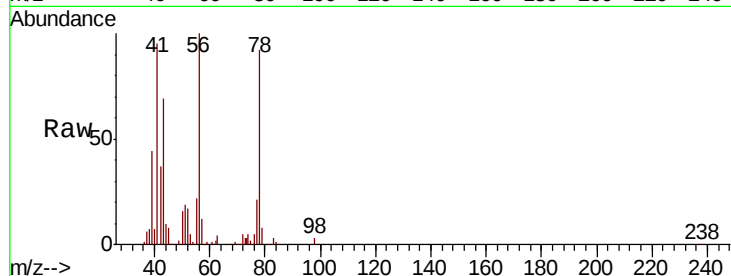


#36
Benzene
Concen: 0.517 ppbv m
RT: 6.89
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SV2
Acq: 5 May 2022 16:41

Tot Ion:
Ion Ratio
78 100
77 23.
50 17.

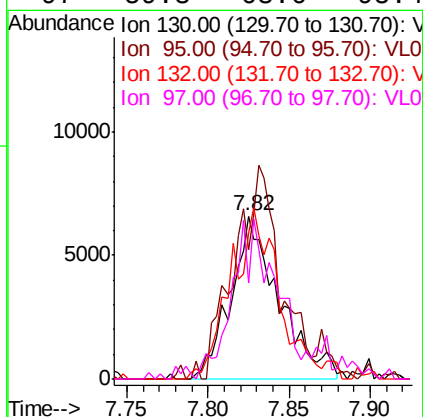
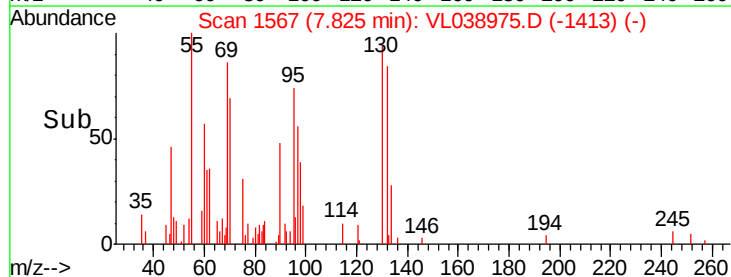
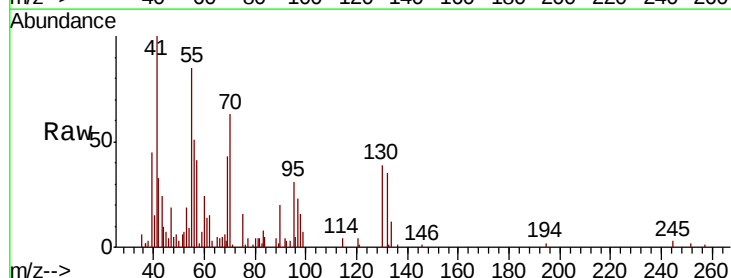
Manual Integrations
APPROVED

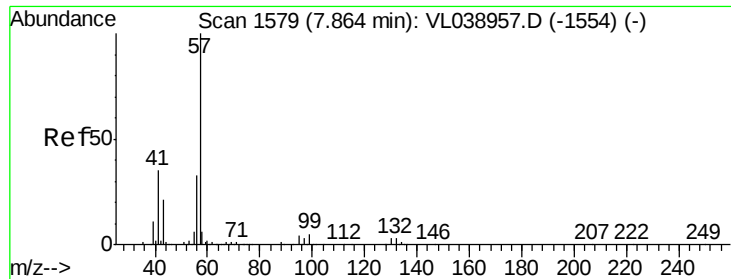
Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022



#38
Trichloroethene
Concen: 0.118 ppbv m
RT: 7.82 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VL038975.D
Acq: 5 May 2022 16:41

Tgt Ion:130 Resp: 13621
Ion Ratio Lower Upper
130 100
95 79.2 94.8 142.2#
132 89.7 75.8 113.8
97 59.3 63.6 95.4#



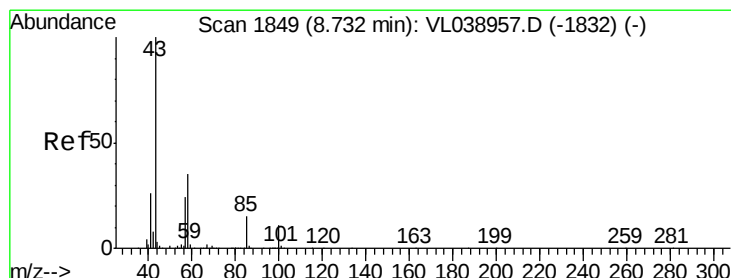
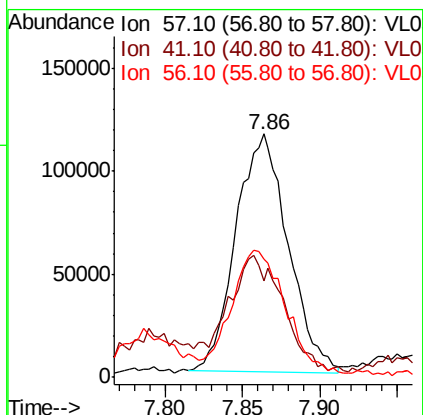
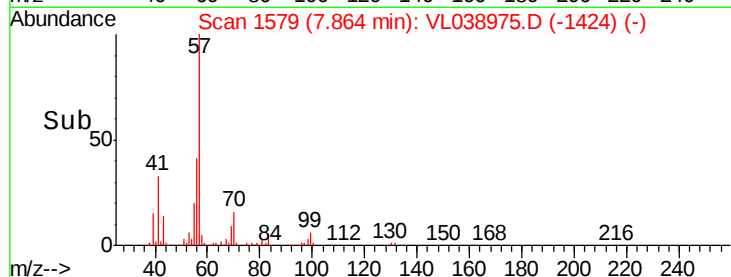
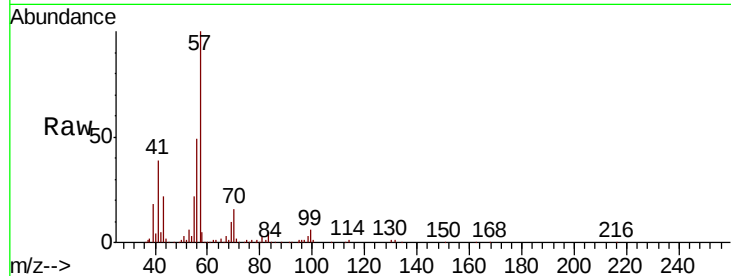


#44
 2,2,4-Trimethylpentane
 Concen: 0.594 ppbv
 RT: 7.86
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV2
 Acq: 5 May 2022 16:41

Tot Ion:
 Ion Ratio
 57 100
 41 56.
 56 54.

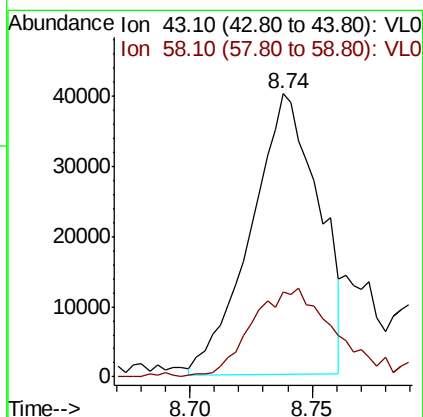
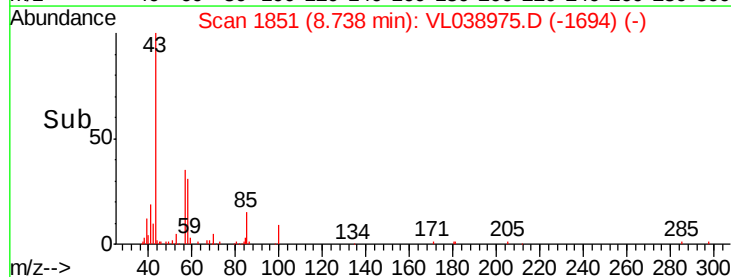
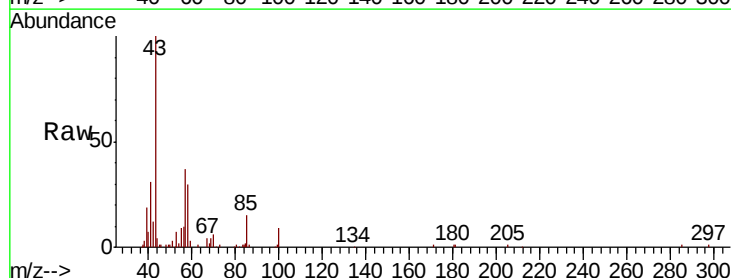
Manual Integrations
 APPROVED

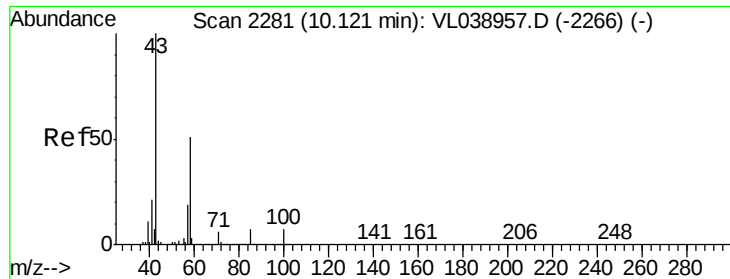
Reviewed By :Semsettin Yesilyurt 05/07/2022
 Supervised By :Mahesh Dadoda 05/09/2022



#50
 4-Methyl-2-Pentanone
 Concen: 0.281 ppbv
 RT: 8.74 min Scan# 1851
 Delta R.T. 0.01 min
 Lab File: VL038975.D
 Acq: 5 May 2022 16:41

Tgt Ion: 43 Resp: 76652
 Ion Ratio Lower Upper
 43 100
 58 43.3 28.4 42.6#



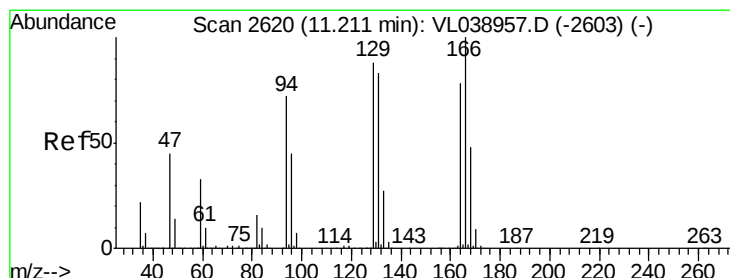
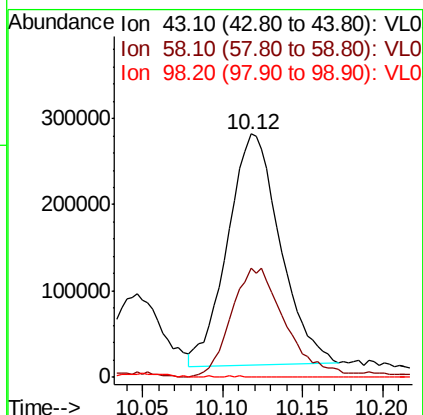
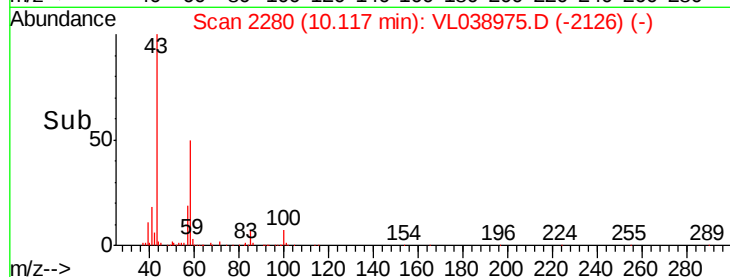
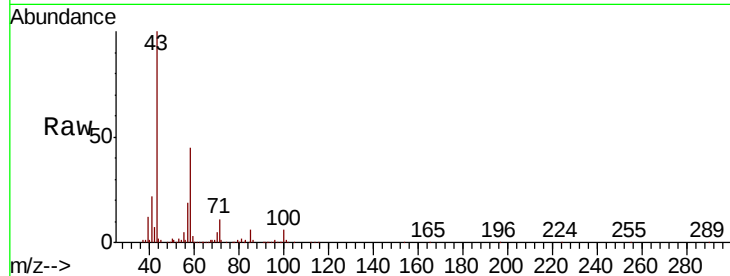


#51
2-Hexanone
Concen: 3.021 ppbv
RT: 10.12 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 16:41

Tot Ion:
Ion Ratio
43 100
58 50.
98 0.

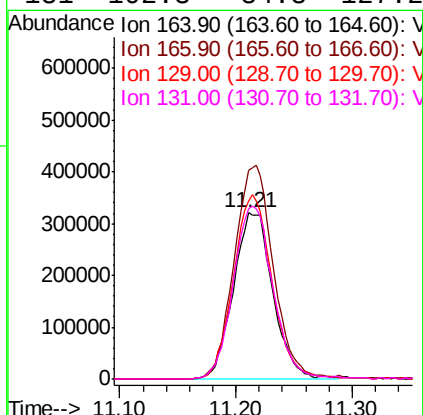
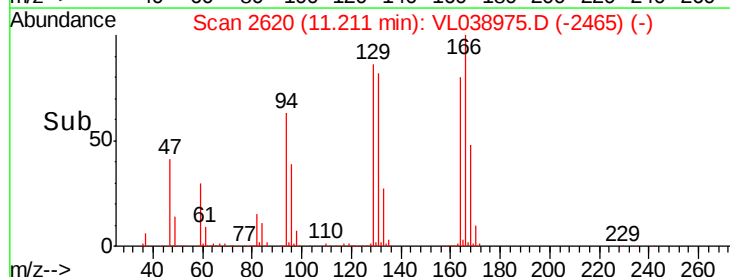
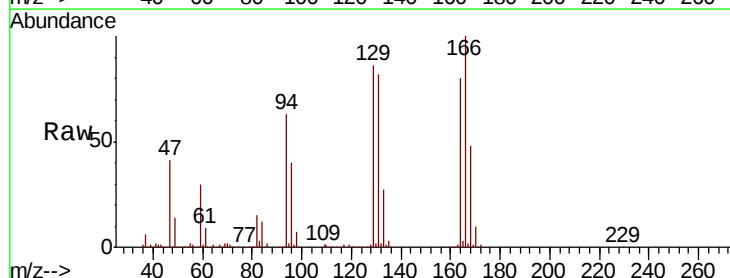
Manual Integrations
APPROVED

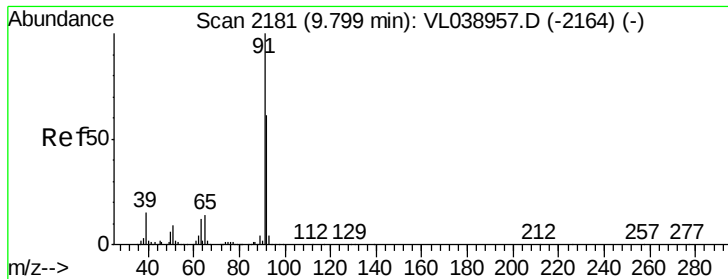
Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022



#52
Tetrachloroethene
Concen: 8.095 ppbv m
RT: 11.21 min Scan# 2620
Delta R.T.: -0.00 min
Lab File: VL038975.D
Acq: 5 May 2022 16:41

Tgt Ion:164 Resp: 753812
Ion Ratio Lower Upper
164 100
166 125.5 102.5 153.7
129 107.4 90.1 135.1
131 102.3 84.8 127.2





#53

Toluene

Concen: 1.579 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 16:41 SV2

Tot Ion:

Ion Ratio

91 100

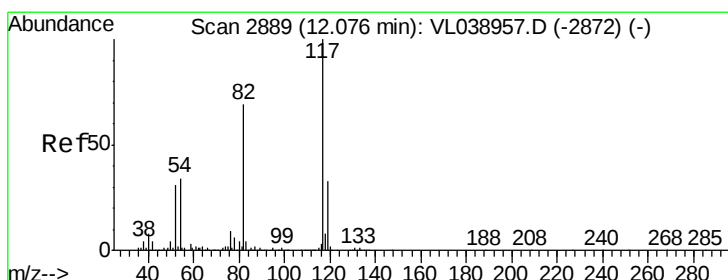
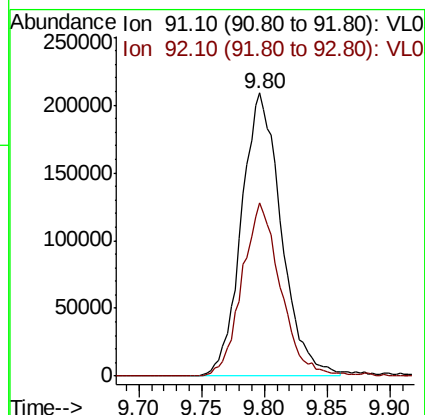
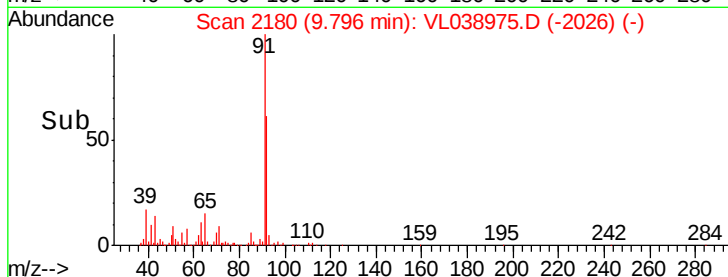
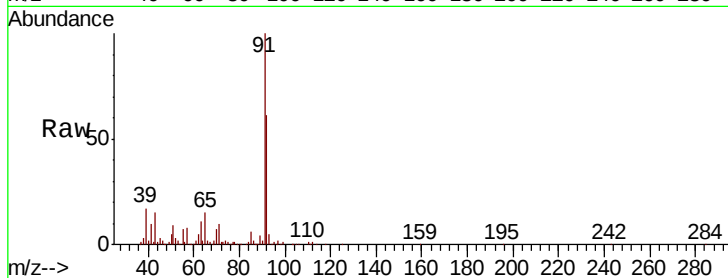
92 60.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038975.D

Acq: 5 May 2022 16:41

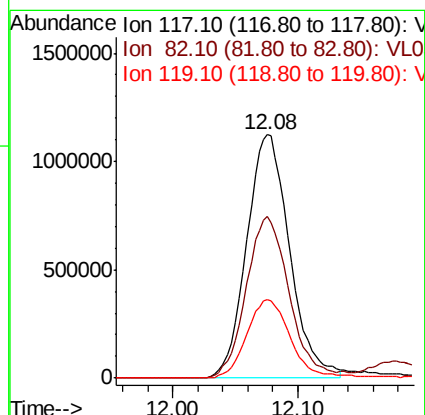
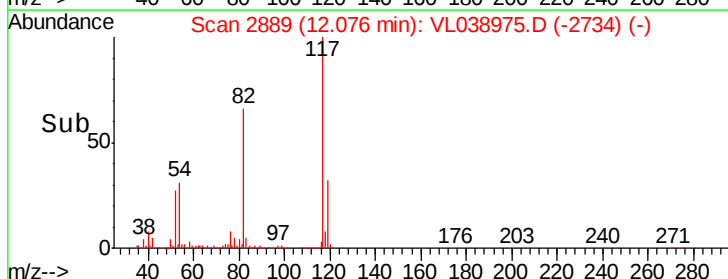
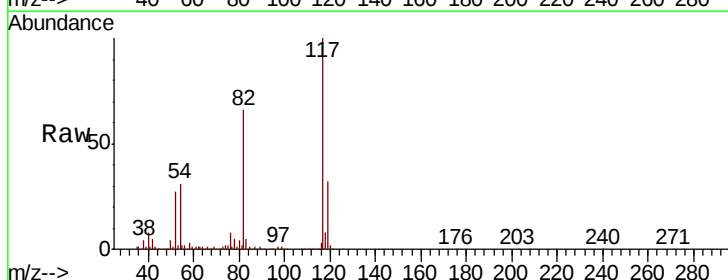
Tgt Ion:117 Resp: 2676954

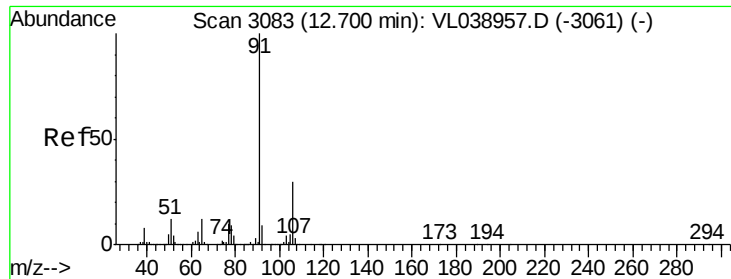
Ion Ratio Lower Upper

117 100

82 66.8 57.0 85.6

119 33.1 27.2 40.8



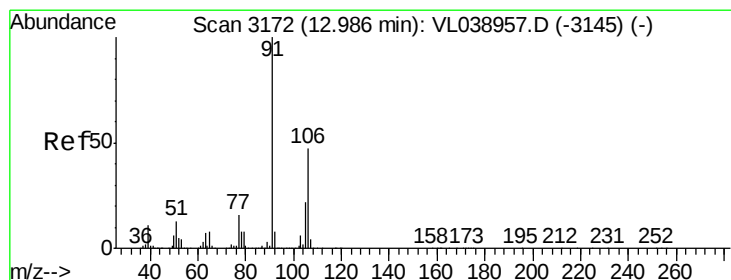
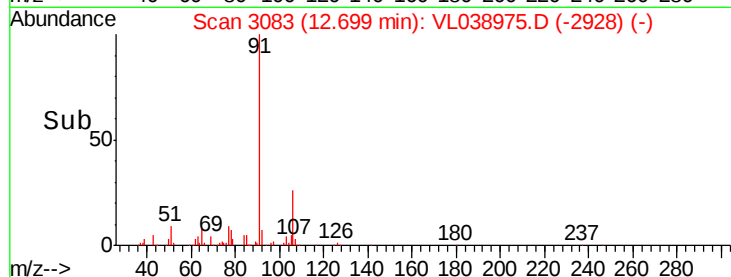
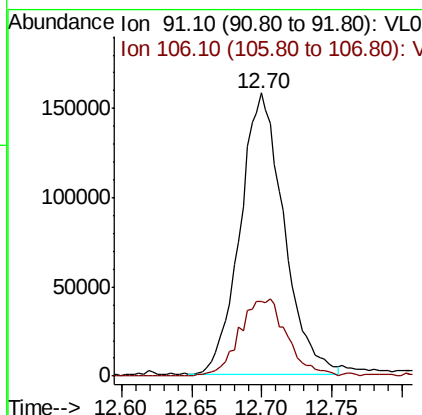
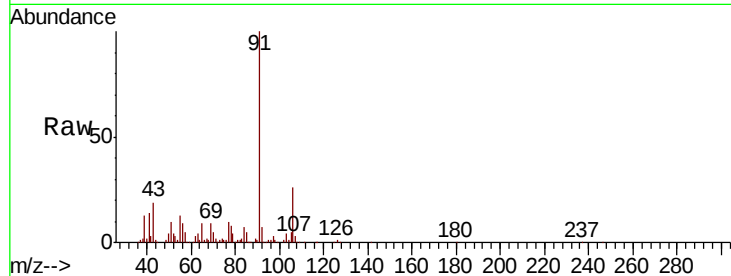


#58
Ethyl Benzene
Concen: 0.886 ppbv
RT: 12.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 16:41

Tot Ion:
Ion Ratio
91 100
106 26.

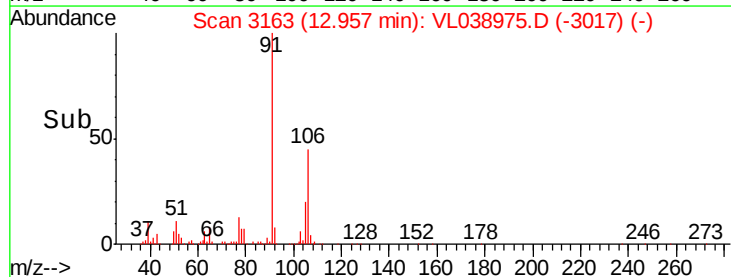
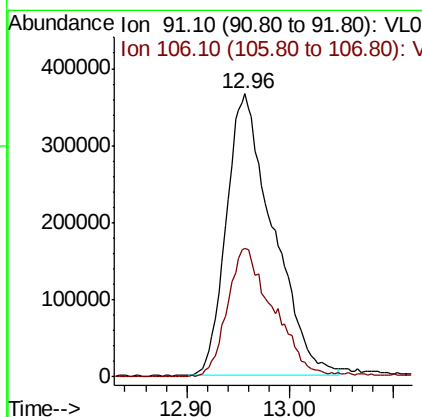
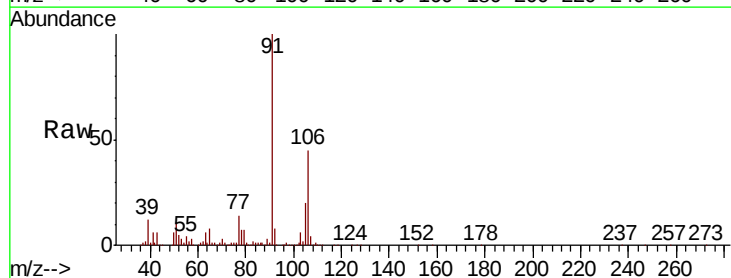
Manual Integrations
APPROVED

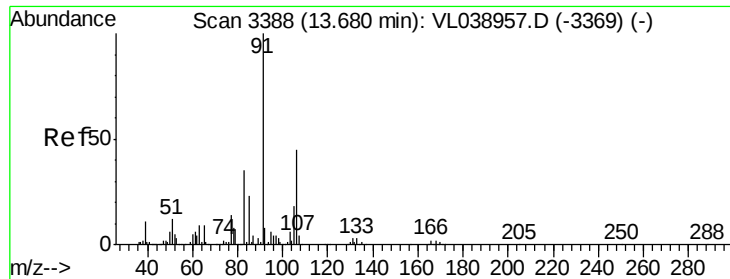
Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022



#59
m/p-Xylene
Concen: 3.504 ppbv
RT: 12.96 min Scan# 3163
Delta R.T. -0.03 min
Lab File: VL038975.D
Acq: 5 May 2022 16:41

Tgt Ion: 91 Resp: 1152363
Ion Ratio Lower Upper
91 100
106 45.5 34.6 52.0



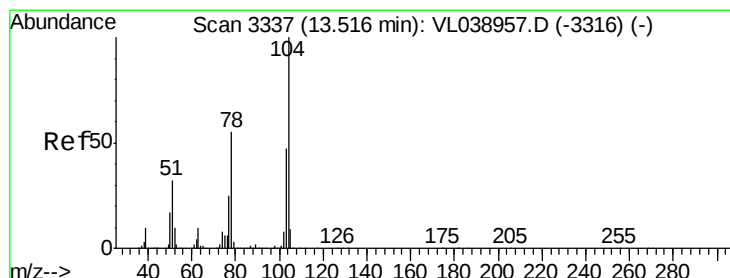
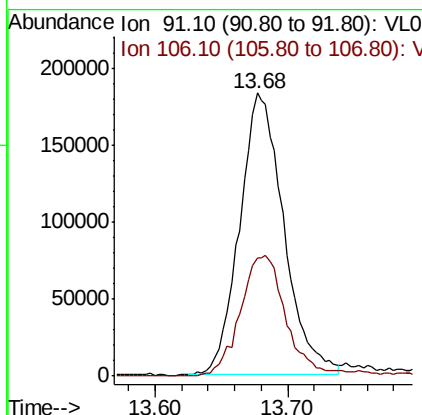
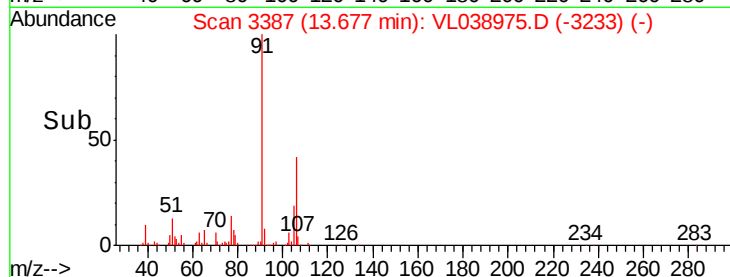
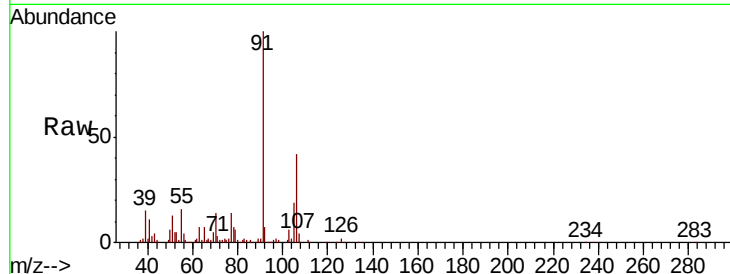


#60
o-Xylene
Concen: 1.370 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 5 May 2022 16:41

Tot Ion:
Ion Ratio
91 100
106 45.

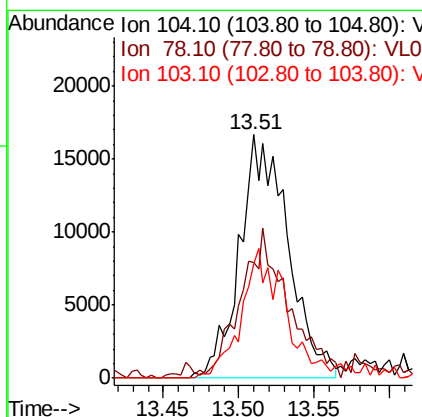
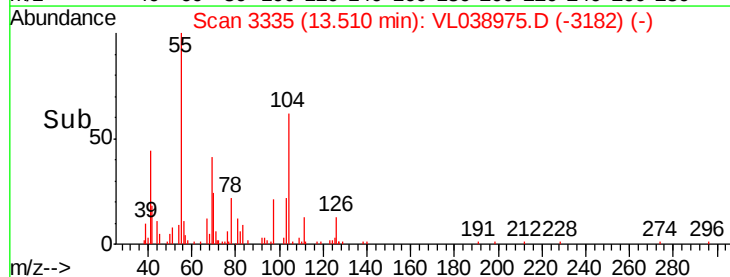
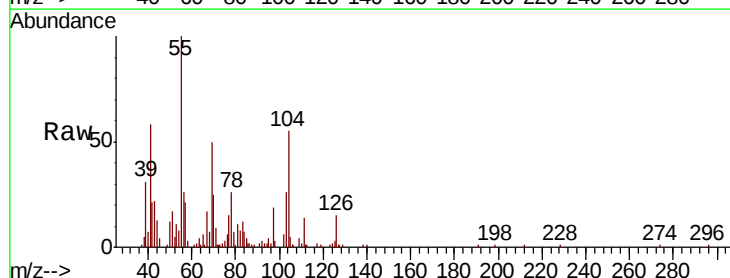
Manual Integrations
APPROVED

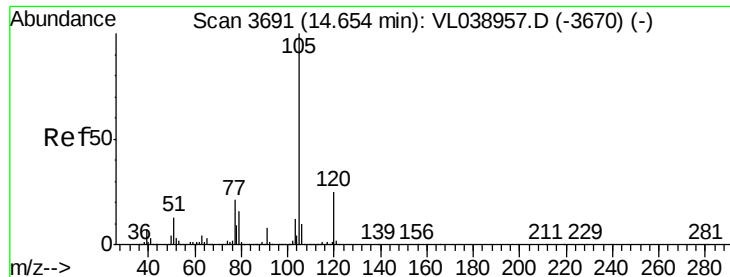
Reviewed By :Semsettin Yesilyurt 05/07/2022
Supervised By :Mahesh Dadoda 05/09/2022



#61
Styrene
Concen: 0.225 ppbv m
RT: 13.51 min Scan# 3335
Delta R.T. -0.01 min
Lab File: VL038975.D
Acq: 5 May 2022 16:41

Tgt Ion:104 Resp: 37120
Ion Ratio Lower Upper
104 100
78 62.8 46.4 69.6
103 52.7 39.3 58.9





#62

Isopropylbenzene

Concen: 0.399 ppbv

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 16:41

Tot Ion:1

Ion Ratio

105 100

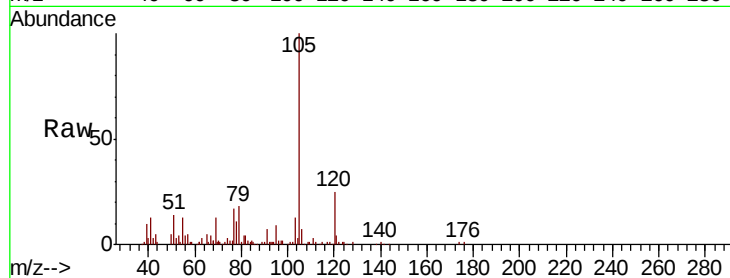
120 29.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022

Supervised By :Mahesh Dadoda 05/09/2022



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.66

80000

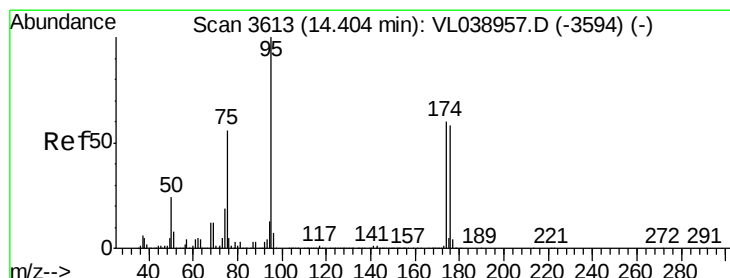
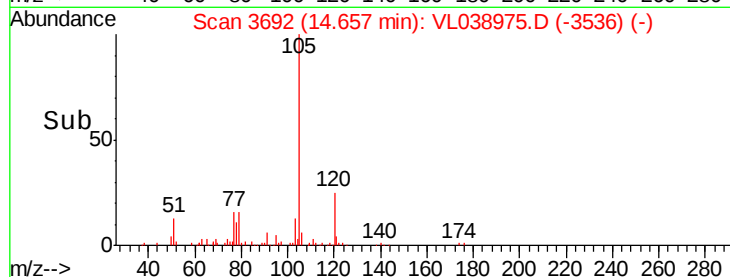
60000

40000

20000

0

Time--> 14.55 14.60 14.65 14.70



#68

1-Bromo-4-Fluorobenzene

Concen: 10.168 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.00 min

Lab File: VL038975.D

Acq: 5 May 2022 16:41

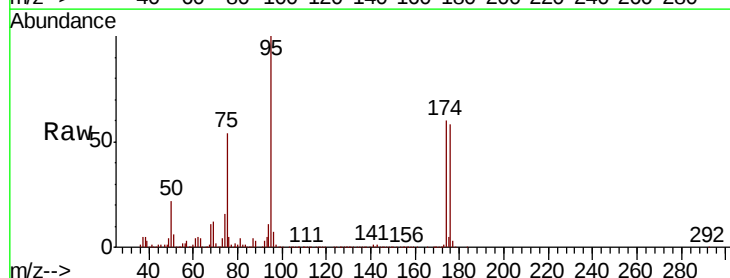
Tgt Ion: 95 Resp: 2155605

Ion Ratio Lower Upper

95 100

174 64.4 50.8 76.2

175 4.7 3.8 5.6



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

1200000

1000000

800000

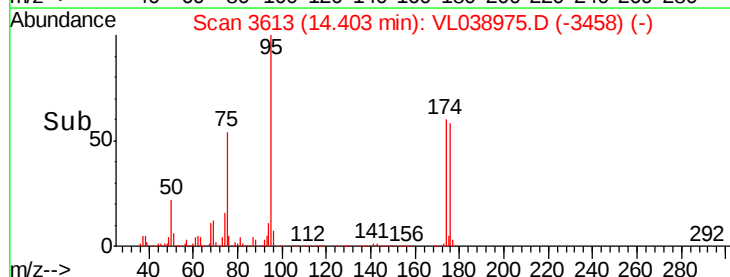
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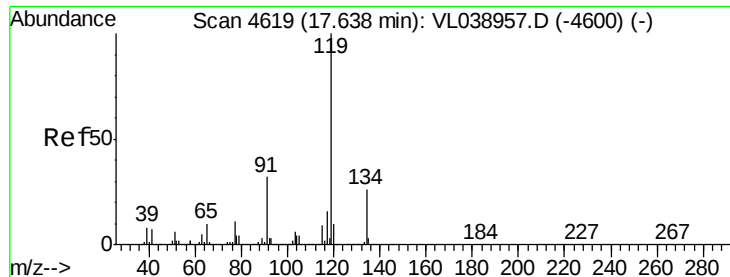
400000

200000

0

Time--> 14.30 14.40 14.50



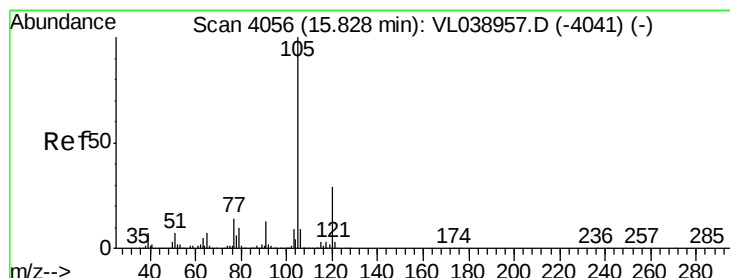
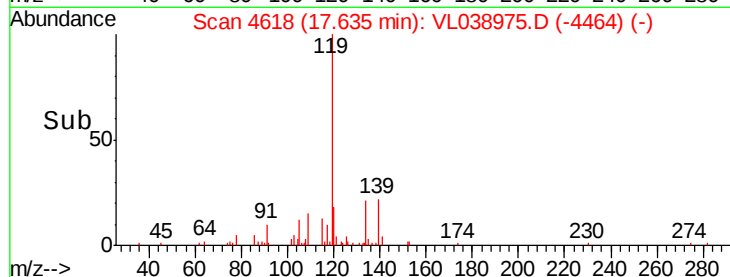
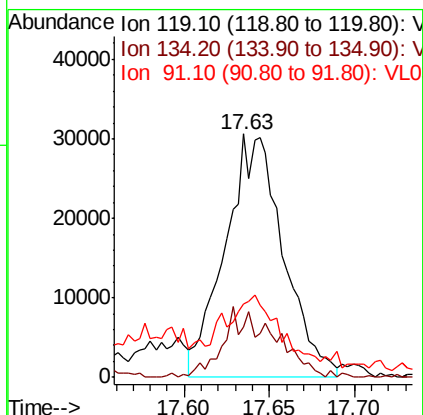
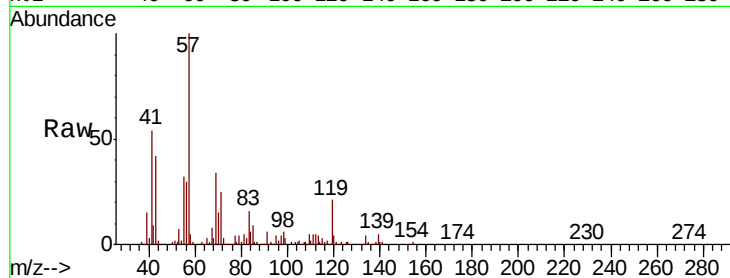


#69
 p-Isopropyltoluene
 Concen: 0.159 ppbv m
 RT: 17.63
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 16:41

Tot Ion:1
 Ion Rati
 119 100
 134 0.
 91 56.

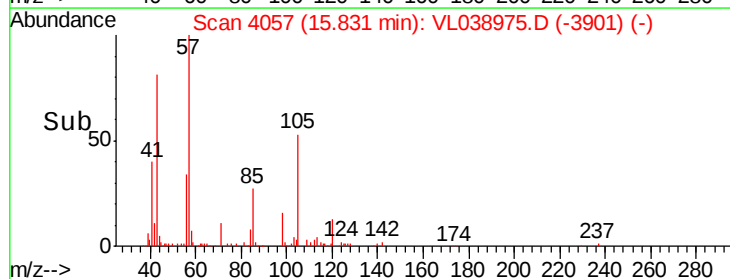
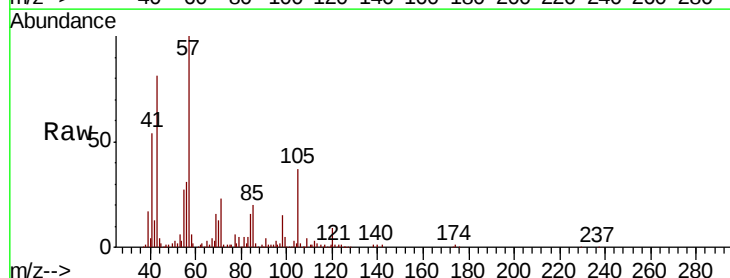
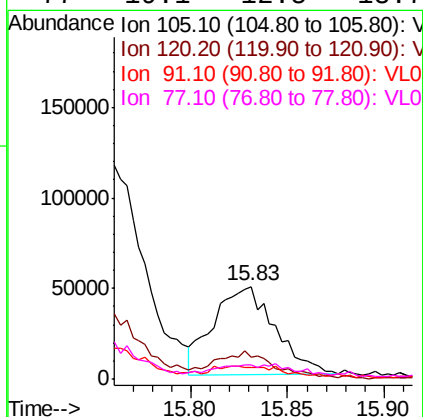
Manual Integrations
 APPROVED

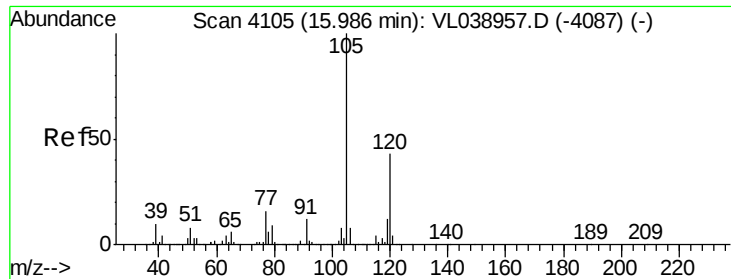
Reviewed By :Semsettin Yesilyurt 05/07/2022
 Supervised By :Mahesh Dadoda 05/09/2022



#72
 4-Ethyltoluene
 Concen: 0.307 ppbv
 RT: 15.83 min Scan# 4057
 Delta R.T. 0.00 min
 Lab File: VL038975.D
 Acq: 5 May 2022 16:41

Tgt Ion:105 Resp: 108269
 Ion Ratio Lower Upper
 105 100
 120 30.1 23.4 35.0
 91 17.7 10.6 16.0#
 77 19.1 12.5 18.7#



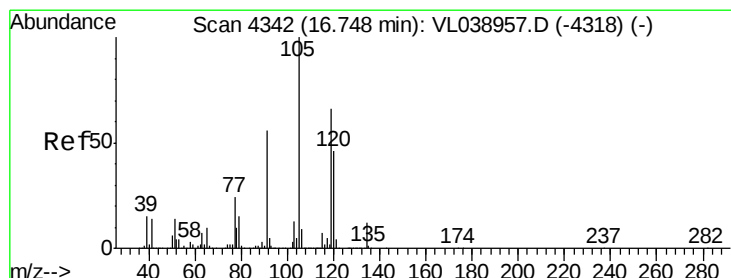
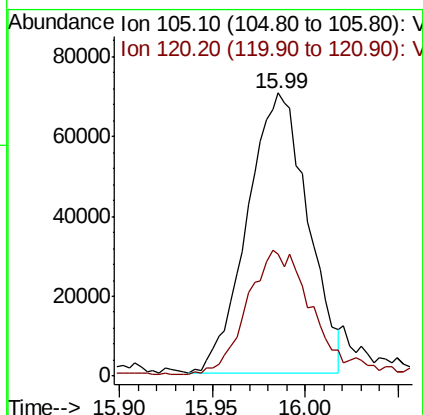
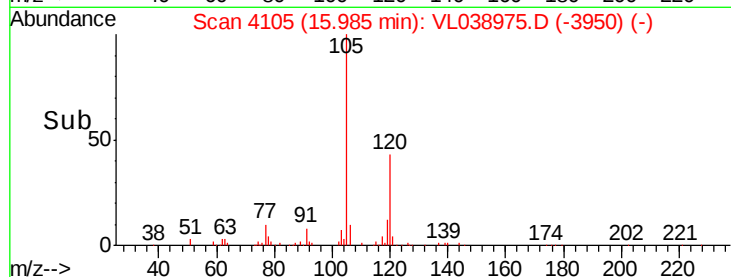
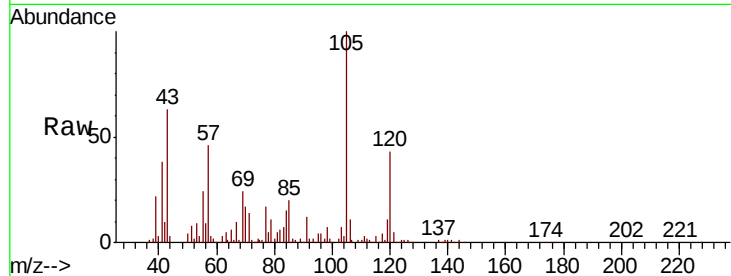


#73
 1,3,5-Trimethylbenzene
 Concen: 0.501 ppbv
 RT: 15.99 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 5 May 2022 16:41

Tot Ion:1
 Ion Rati
 105 100
 120 42.

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2022
 Supervised By :Mahesh Dadoda 05/09/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 0.947 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.00 min
 Lab File: VL038975.D
 Acq: 5 May 2022 16:41

Tgt Ion:105 Resp: 329283
 Ion Ratio Lower Upper
 105 100
 120 43.9 36.9 55.3
 91 9.0 45.0 67.4#
 77 13.9 19.2 28.8#

