

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030322\
 Data File : VL038511.D
 Acq On : 3 Mar 2022 12:50
 Operator : SY/AP
 Sample : N1607-09DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-3DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/05/2022
 Supervised By : Mahesh Dadoda 03/05/2022

Quant Time: Mar 05 01:19:38 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222A

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:

QLast Update : Tue Feb 22 19:45:51 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	834052	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.17	114	1927121	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.08	117	1814622	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1501132	10.00	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	20451	0.15	ppbv	89
9) Propene	3.02	41	10394m	0.21	ppbv	
10) Heptane	8.11	43	32517m	0.27	ppbv	
13) Ethanol	3.61	45	30805m	6.35	ppbv	
15) Acetone	3.85	43	82016	1.16	ppbv	93
17) tert-Butyl alcohol	4.31	59	9000m	0.13	ppbv	
19) Isopropyl Alcohol	3.98	45	21048	0.51	ppbv #	93
20) Methylene Chloride	4.34	84	220307	6.27	ppbv	95
26) Hexane	5.68	57	141254	1.64	ppbv #	43
30) Cyclohexane	7.11	84	13354m	0.19	ppbv	
34) 2-Butanone	5.25	43	6210m	0.10	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	37008m	0.13	ppbv	
53) Toluene	9.80	91	173291	0.94	ppbv	99
58) Ethyl Benzene	12.70	91	27848m	0.11	ppbv	
59) m/p-Xylene	12.96	91	100420m	0.47	ppbv	
60) o-Xylene	13.68	91	22837m	0.11	ppbv	
72) 4-Ethyltoluene	15.83	105	27613	0.12	ppbv #	89
73) 1,3,5-Trimethylbenzene	15.99	105	31610m	0.16	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	85109	0.40	ppbv #	71

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

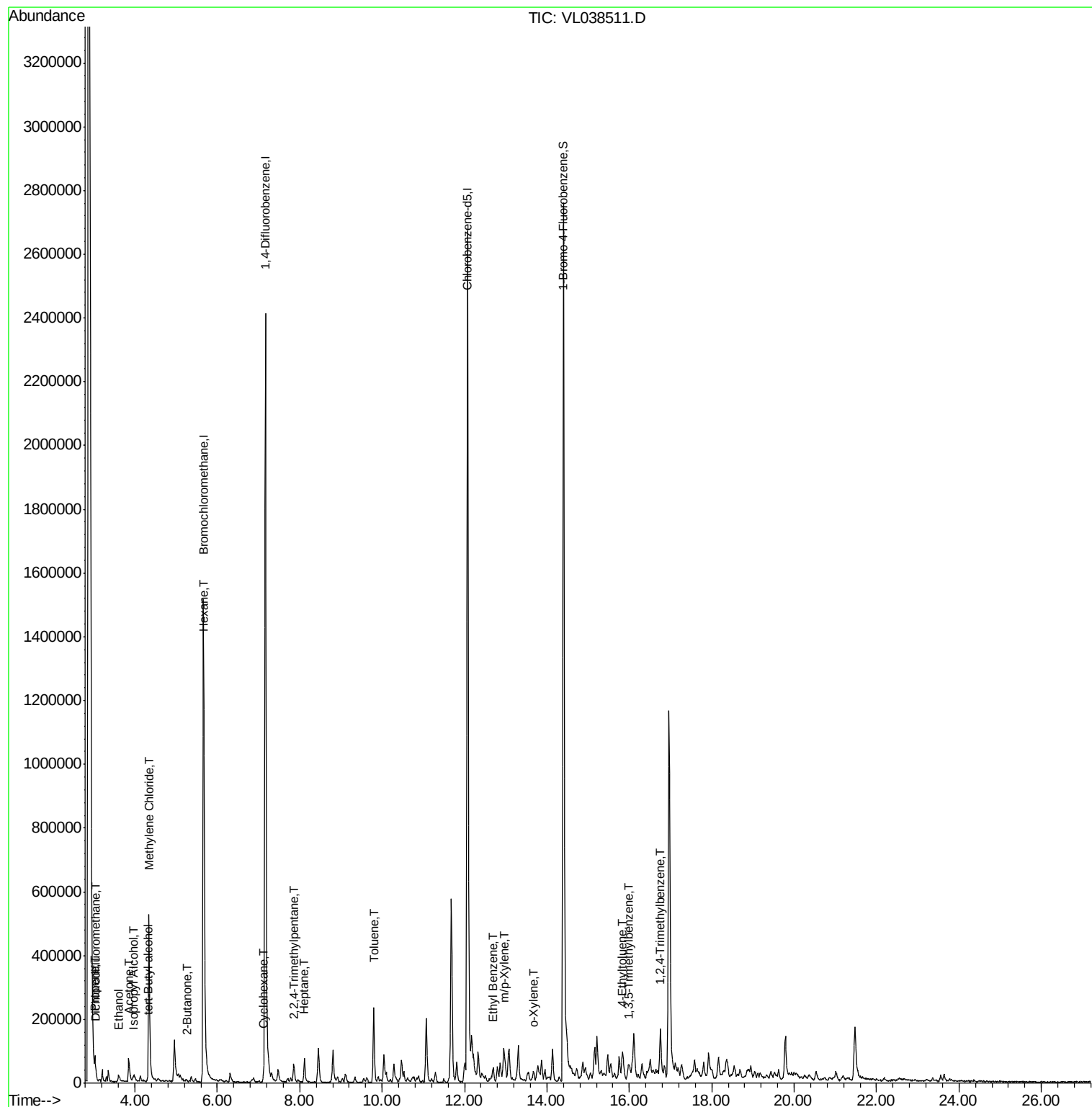
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030322\
Data File : VL038511.D
Acq On : 3 Mar 2022 12:50
Operator : SY/AP
Sample : N1607-09DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

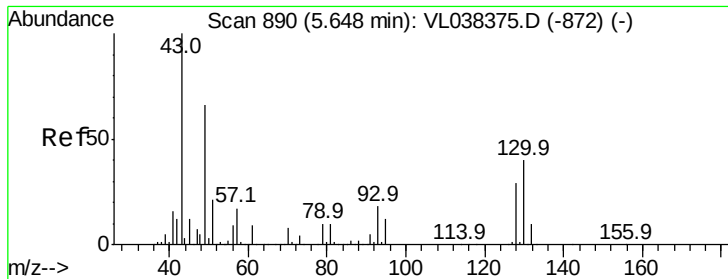
Instrument :
MSVOA_L
ClientSampleId :
MP-3DL

Quant Time: Mar 05 01:19:38 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Tue Feb 22 19:45:51 2022
Response via : Initial Calibration

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 03/05/2022
Supervised By : Mahesh Dadoda 03/05/2022





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 12:50

Tgt Ion:

Ion Ratio

49 100

128 46.

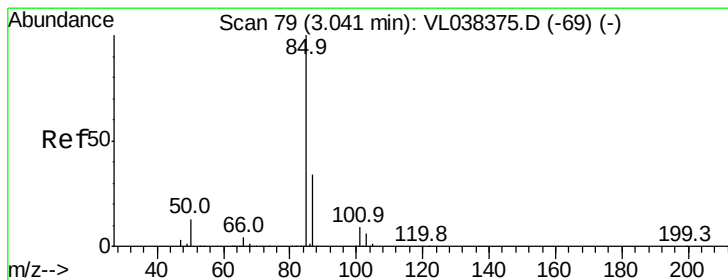
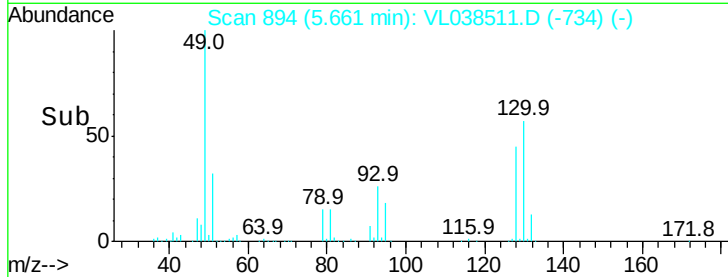
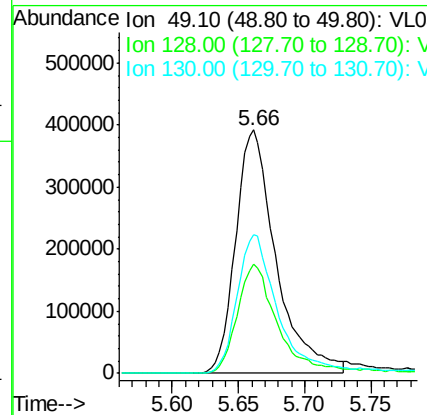
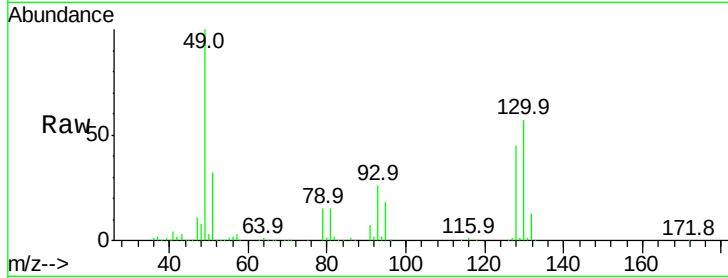
130 59.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/05/2022

Supervised By :Mahesh Dadoda 03/05/2022



#2

Dichlorodifluoromethane

Concen: 0.15 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL038511.D

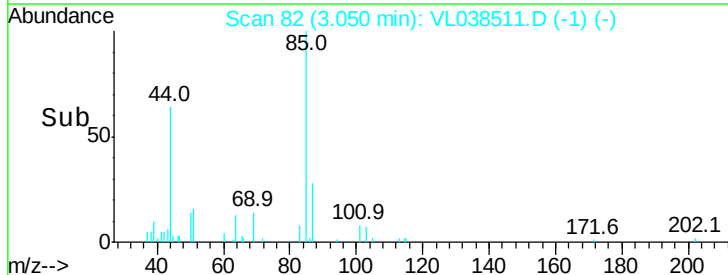
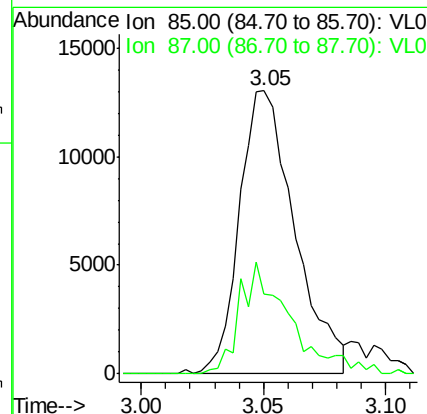
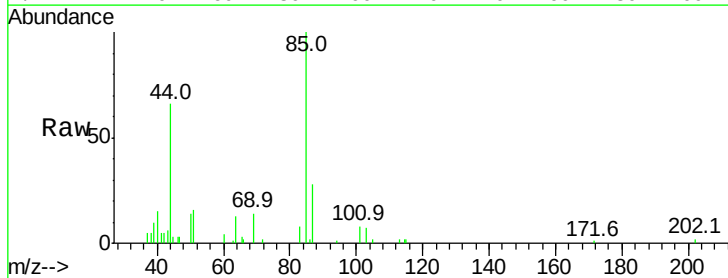
Acq: 3 Mar 2022 12:50

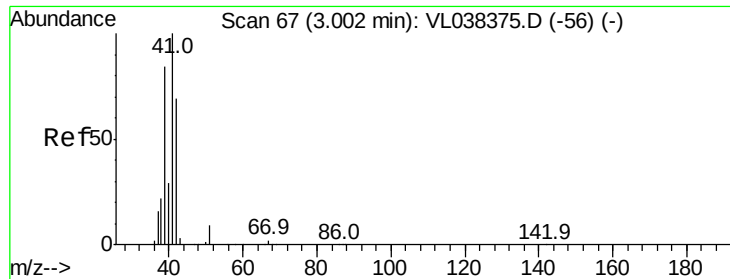
Tgt Ion: 85 Resp: 20451

Ion Ratio Lower Upper

85 100

87 28.1 27.4 41.0





#9

Propene

Concen: 0.21 ppbv m

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 3 Mar 2022 12:50

Tgt Ion:

Ion Ratio

41 100

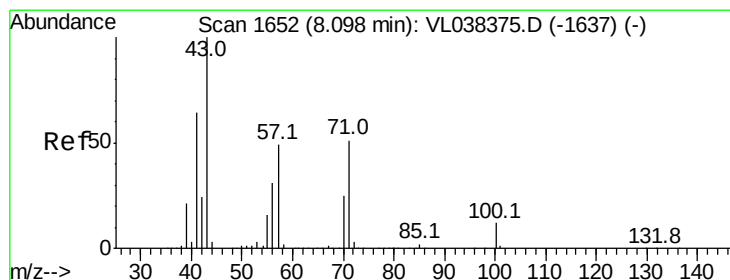
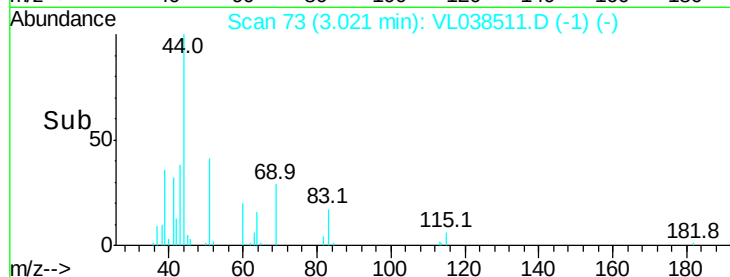
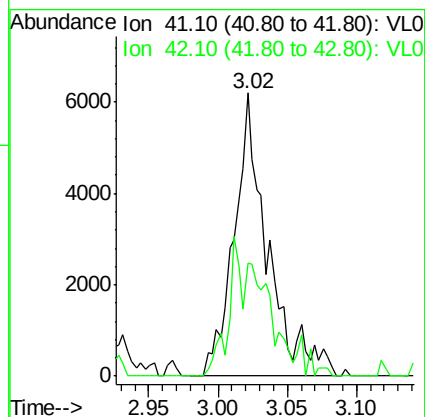
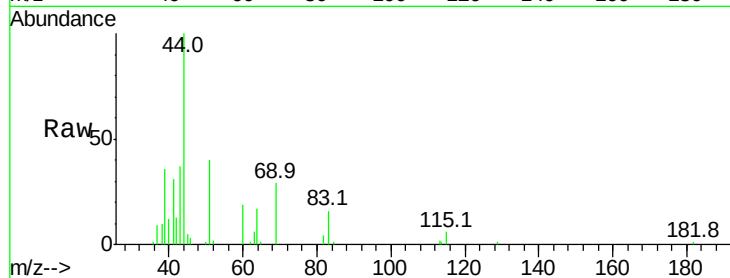
42 54.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/05/2022

Supervised By :Mahesh Dadoda 03/05/2022



#10

Heptane

Concen: 0.27 ppbv m

RT: 8.11 min Scan# 1656

Delta R.T. 0.01 min

Lab File: VL038511.D

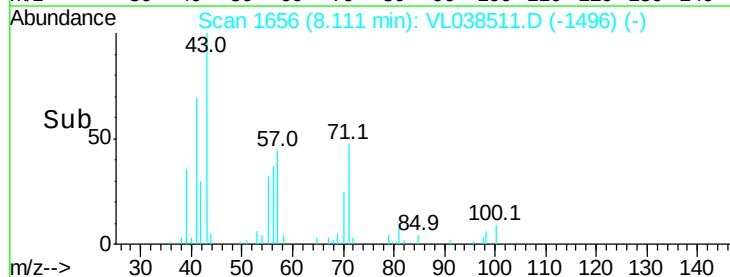
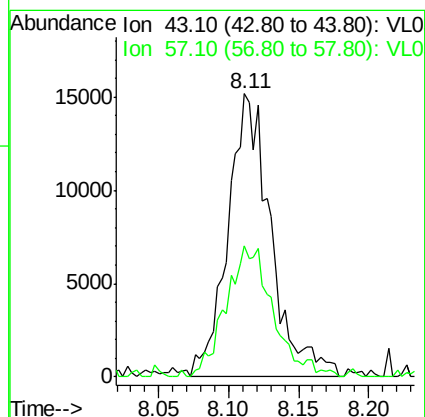
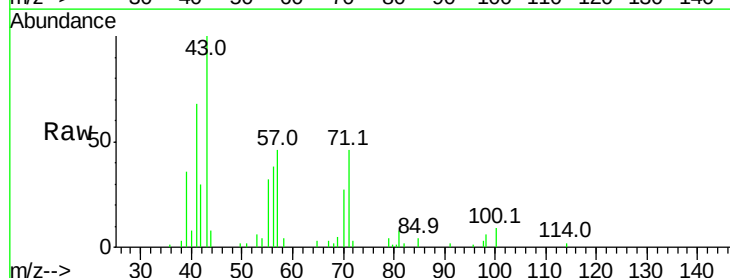
Acq: 3 Mar 2022 12:50

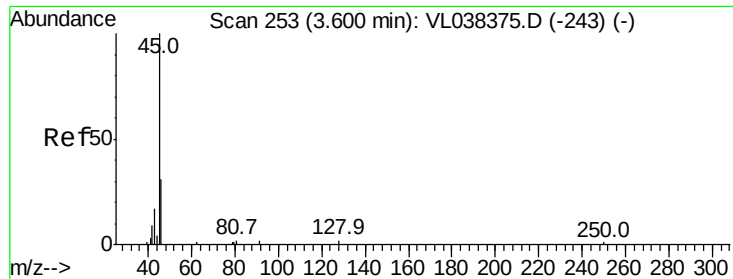
Tgt Ion: 43 Resp: 32517

Ion Ratio Lower Upper

43 100

57 0.0 39.8 59.8#





#13

Ethanol

Concen: 6.35 ppbv m

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 12:50

Tgt Ion:

Ion Ratio

45 100

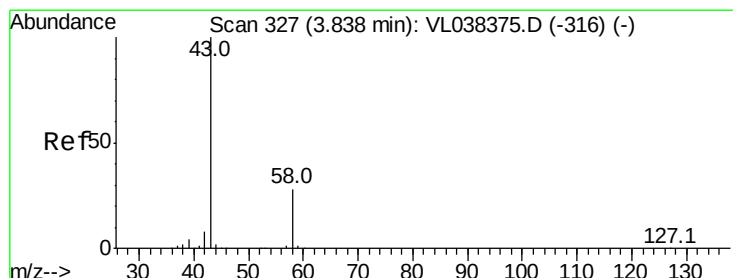
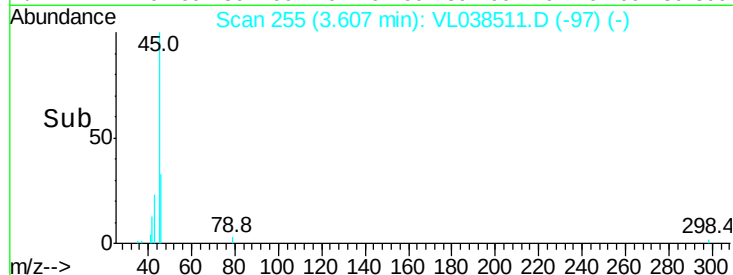
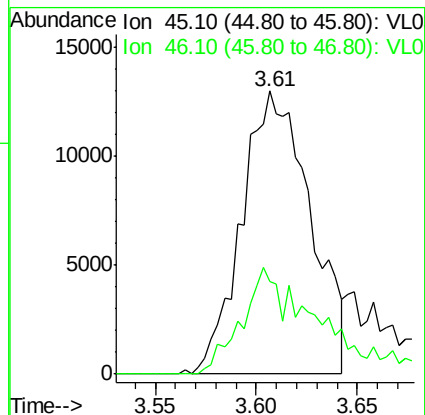
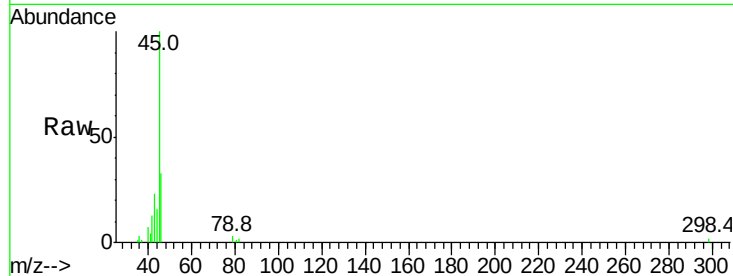
46 46.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/05/2022

Supervised By :Mahesh Dadoda 03/05/2022



#15

Acetone

Concen: 1.16 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL038511.D

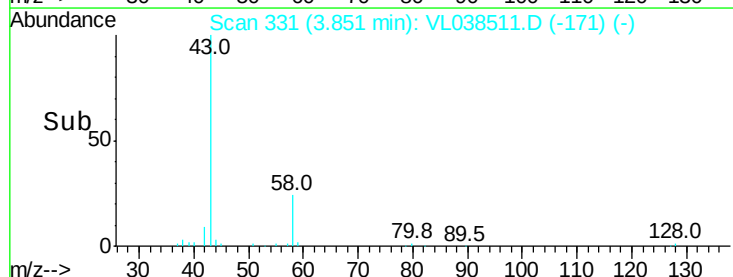
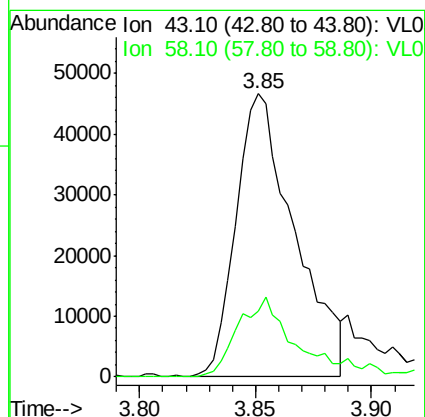
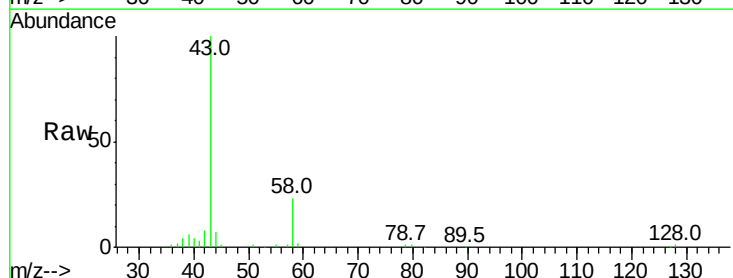
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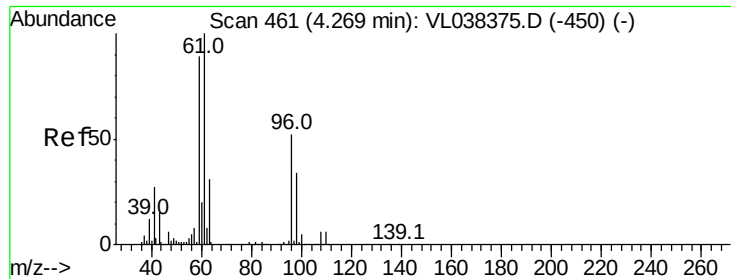
Tgt Ion: 43 Resp: 82016

Ion Ratio Lower Upper

43 100

58 30.6 21.7 32.5





#17

tert-Butyl alcohol

Concen: 0.13 ppbv m

RT: 4.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 12:50

Tgt Ion:

Ion Ratio

59 100

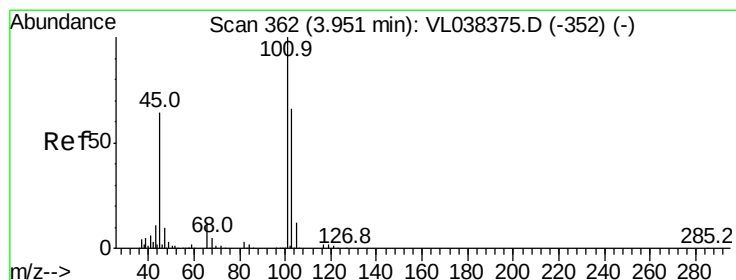
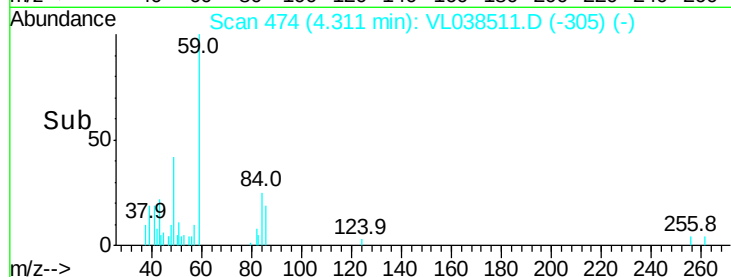
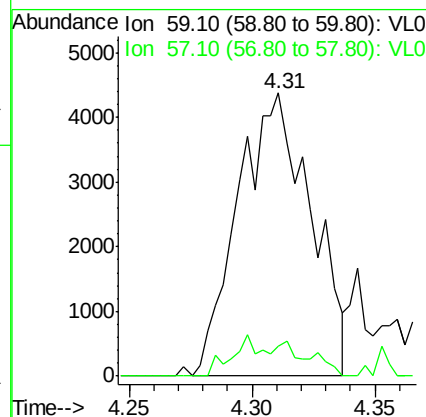
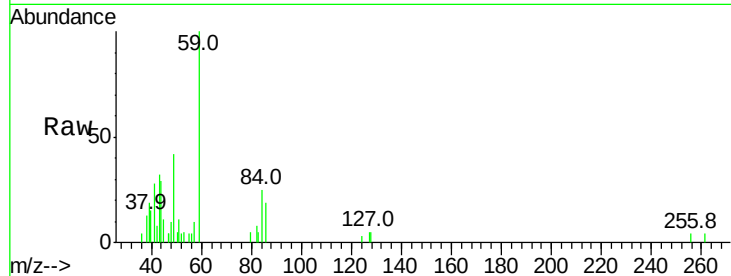
57 13.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/05/2022

Supervised By :Mahesh Dadoda 03/05/2022



#19

Isopropyl Alcohol

Concen: 0.51 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.03 min

Lab File: VL038511.D

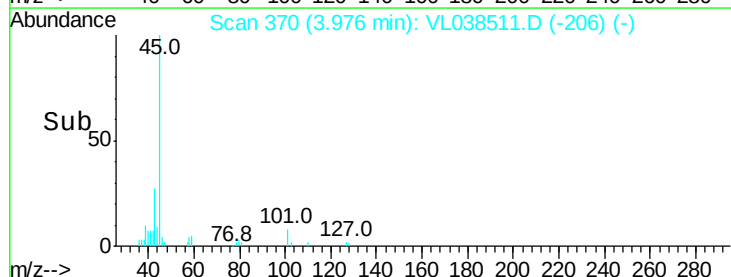
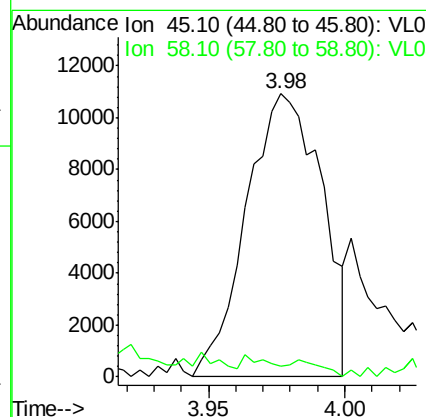
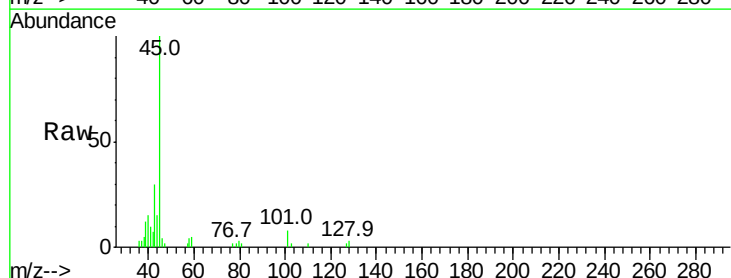
Acq: 3 Mar 2022 12:50

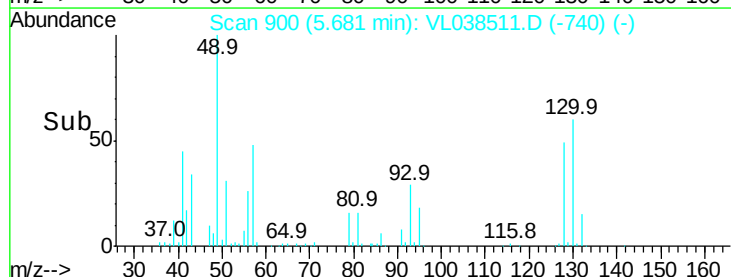
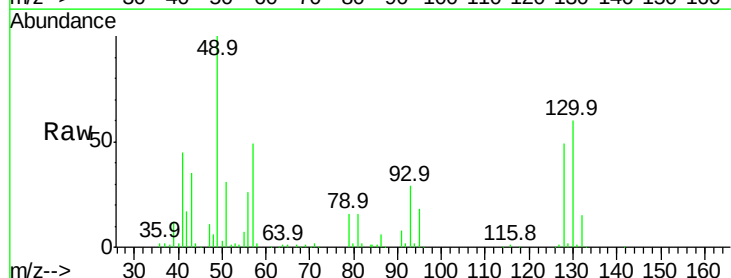
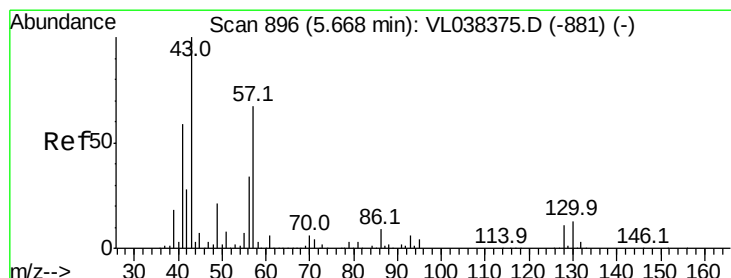
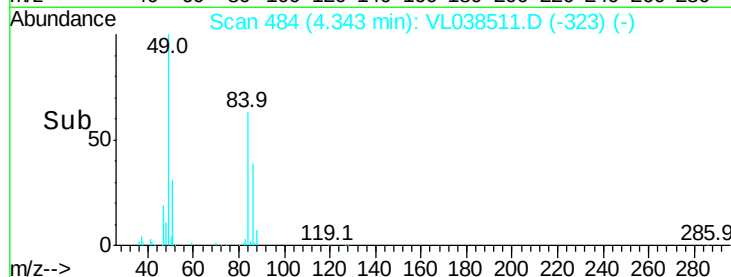
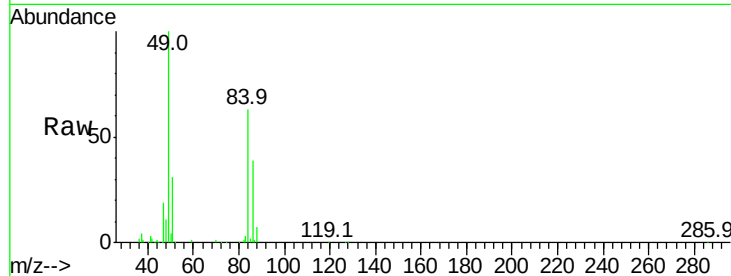
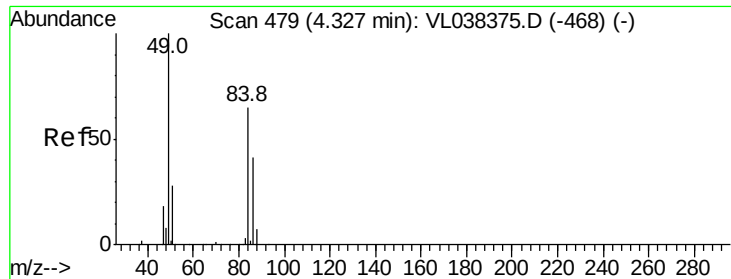
Tgt Ion: 45 Resp: 21048

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#





#20

Methylene Chloride

Concen: 6.27 ppbv

RT: 4.34

Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 3 Mar 2022 12:50

Tgt Ion:

Ion Ratio

84 100

49 158.

51 48.

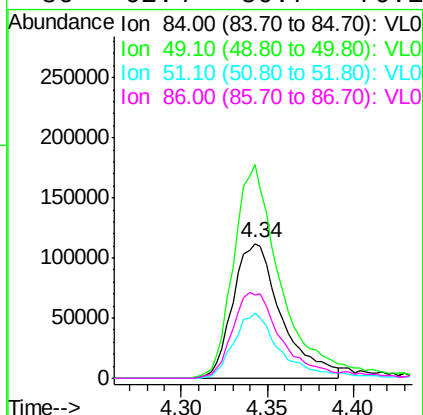
86 62.4 50.7 76.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/05/2022

Supervised By :Mahesh Dadoda 03/05/2022



#26

Hexane

Concen: 1.64 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL038511.D

Acq: 3 Mar 2022 12:50

Tgt Ion: 57 Resp: 141254

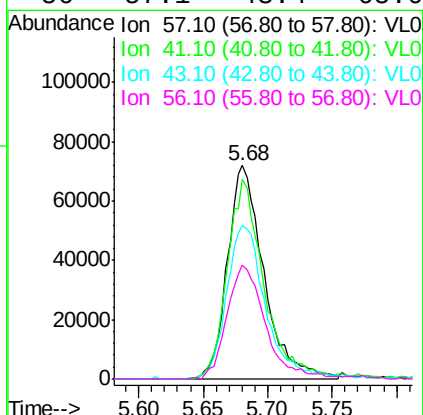
Ion Ratio Lower Upper

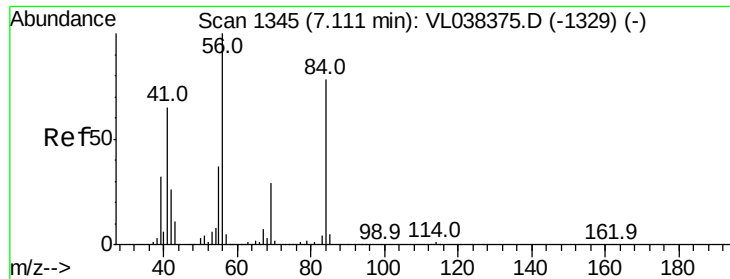
57 100

41 96.6 73.1 109.7

43 77.2 181.0 271.4

56 57.1 43.4 65.0



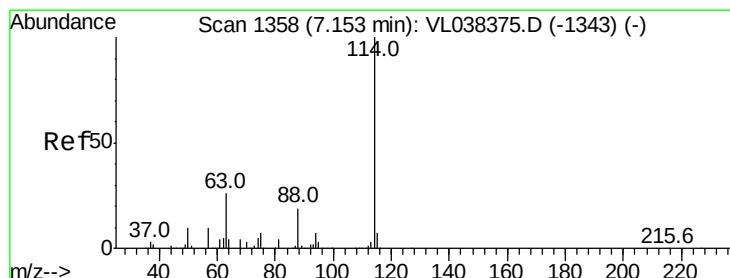
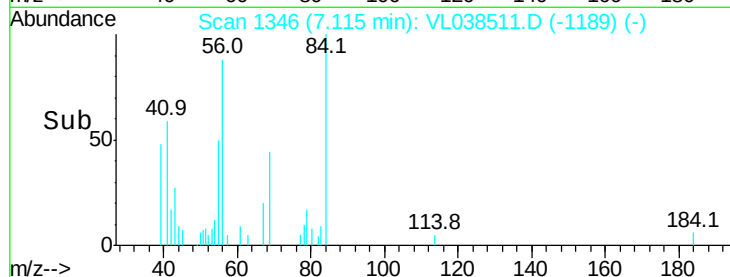
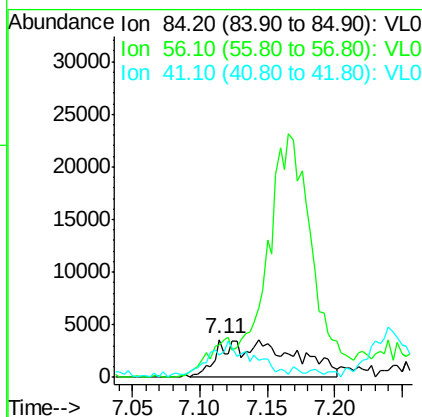
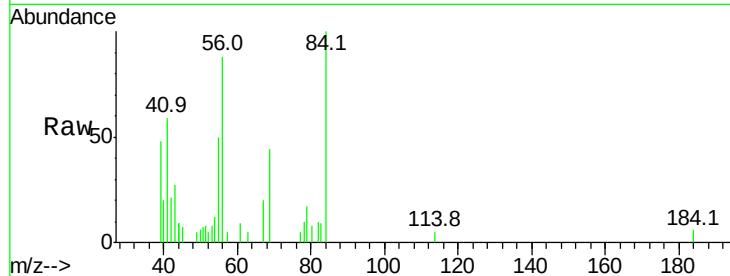


#30
Cyclohexane
Concen: 0.19 ppbv m
RT: 7.11 min
Instrument: MSVOA_1
Delta R.T.: 0.01 min
Lab File: ClientSampleId :
Acq: 3 Mar 2022 12:50

Tgt Ion:
Ion Ratio
84 100
56 0.
41 59.

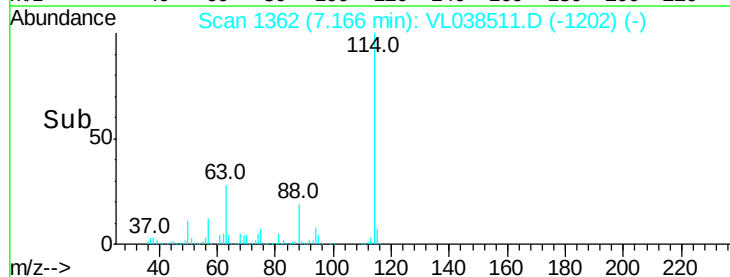
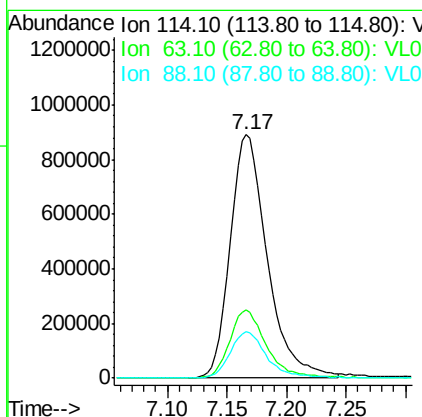
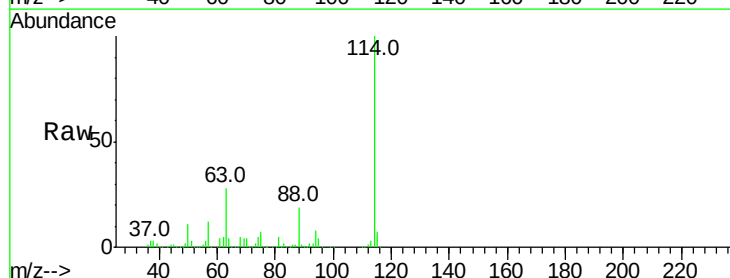
Manual Integrations
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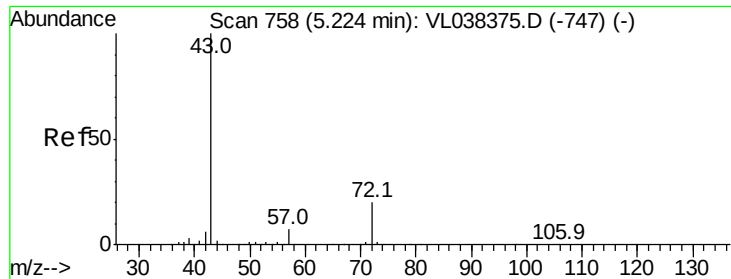
Reviewed By :Semsettin Yesilyurt 03/05/2022
Supervised By :Mahesh Dadoda 03/05/2022



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.17 min Scan# 1362
Delta R.T.: 0.01 min
Lab File: VL038511.D
Acq: 3 Mar 2022 12:50

Tgt Ion:114 Resp: 1927121
Ion Ratio Lower Upper
114 100
63 28.3 22.2 33.2
88 19.1 15.2 22.8



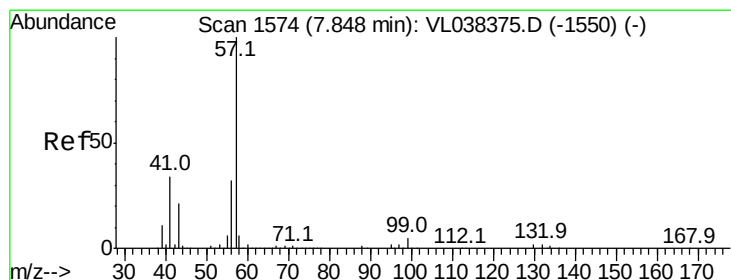
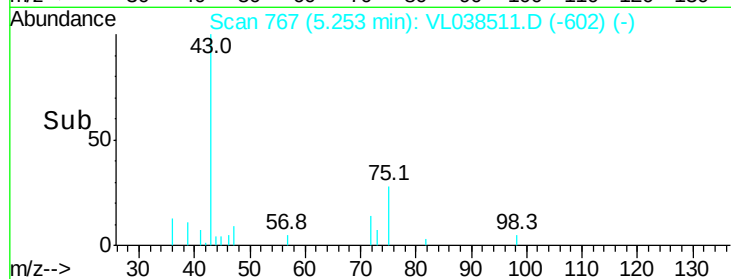
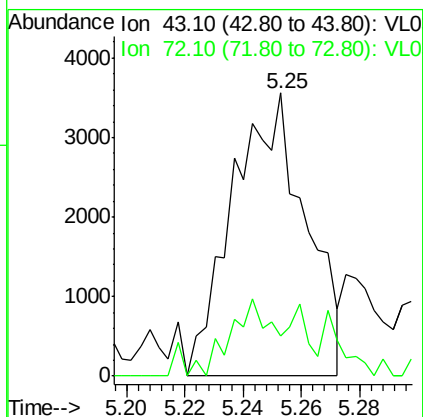
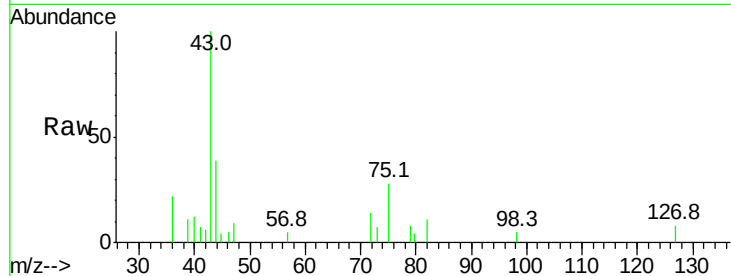


#34
2-Butanone
Concen: 0.10 ppbv m
RT: 5.25
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 3 Mar 2022 12:50

Tgt Ion:
Ion Ratio
43 100
72 30.

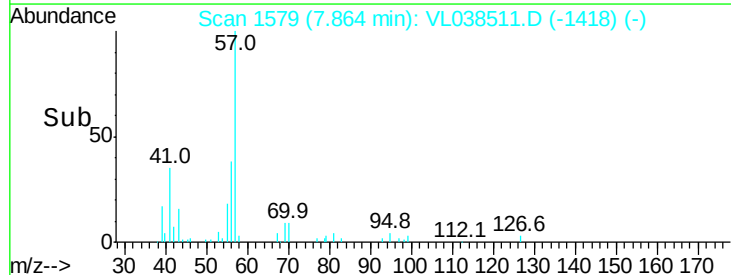
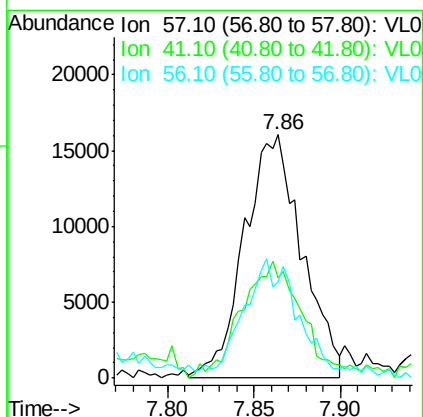
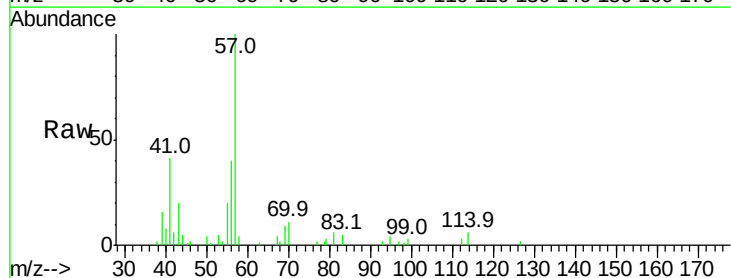
Manual Integrations
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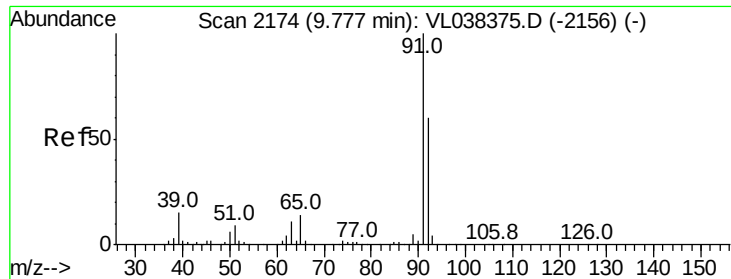
Reviewed By :Semsettin Yesilyurt 03/05/2022
Supervised By :Mahesh Dadoda 03/05/2022



#44
2,2,4-Trimethylpentane
Concen: 0.13 ppbv m
RT: 7.86 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VL038511.D
Acq: 3 Mar 2022 12:50

Tgt Ion: 57 Resp: 37008
Ion Ratio Lower Upper
57 100
41 52.6 26.6 39.8#
56 0.0 25.0 37.6#





#53

Toluene

Concen: 0.94 ppbv

RT: 9.80

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 12:50

Tgt Ion:

Ion Ratio

91 100

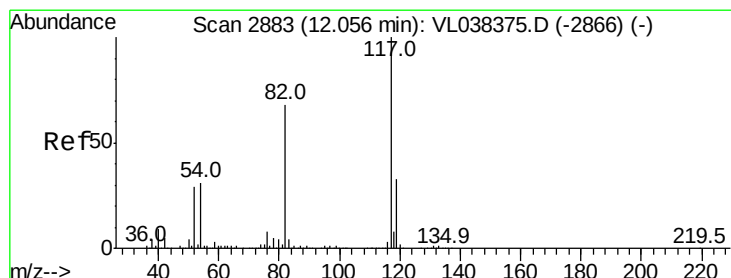
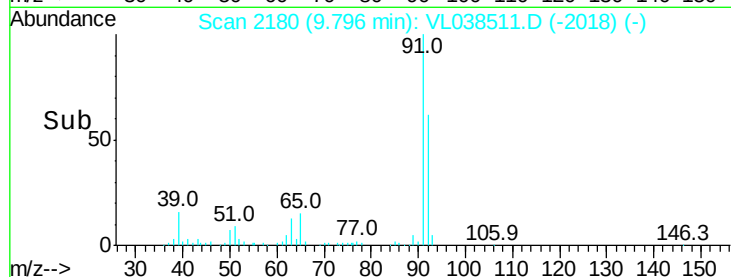
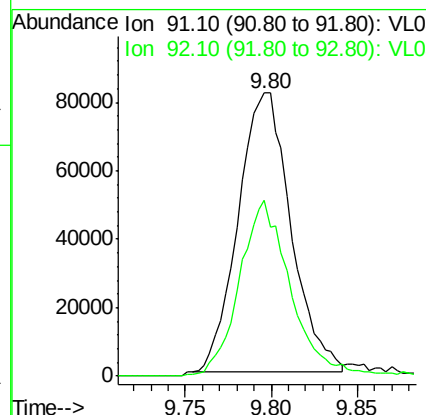
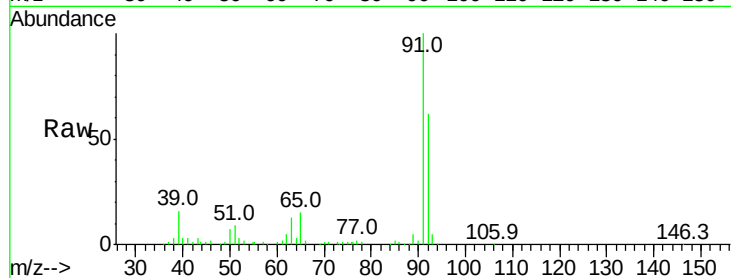
92 61.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/05/2022

Supervised By :Mahesh Dadoda 03/05/2022



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. 0.02 min

Lab File: VL038511.D

Acq: 3 Mar 2022 12:50

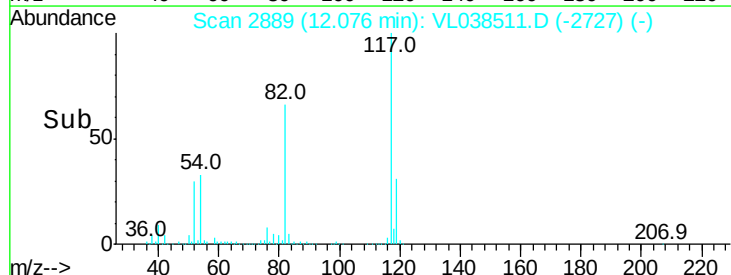
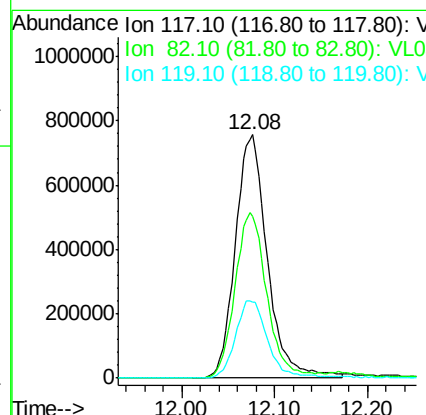
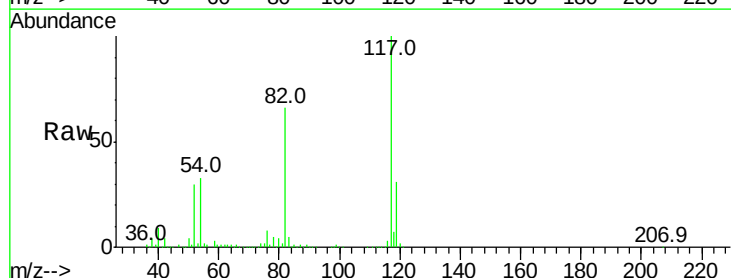
Tgt Ion:117 Resp: 1814622

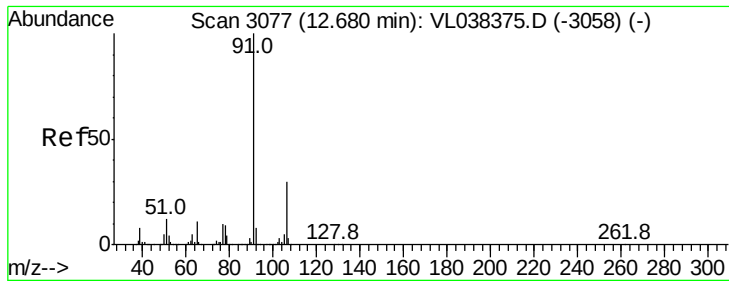
Ion Ratio Lower Upper

117 100

82 68.2 54.9 82.3

119 32.8 46.1 69.1#





#58

Ethyl Benzene

Concen: 0.11 ppbv m

RT: 12.70

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 12:50

Tgt Ion:

Ion Ratio

91 100

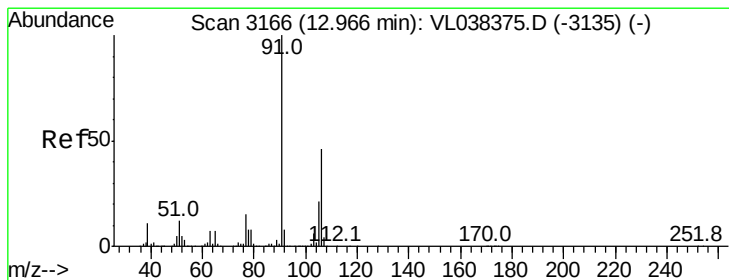
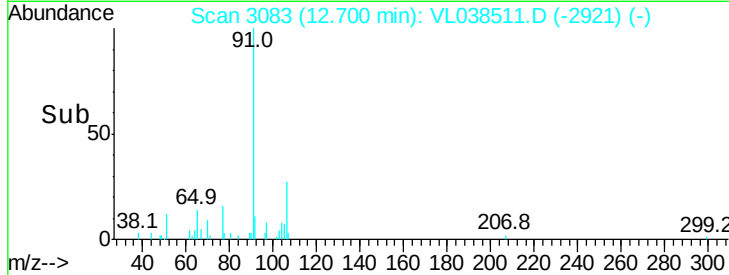
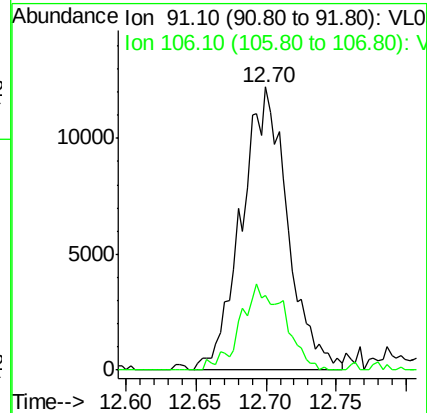
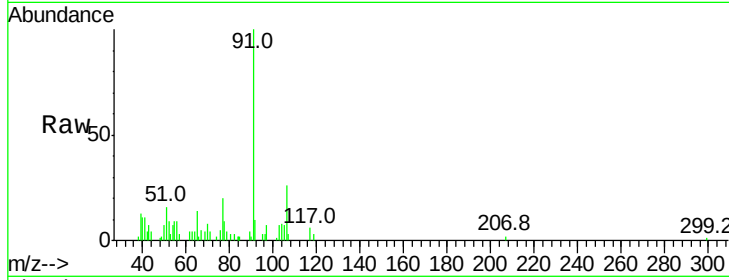
106 26.

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#59

m/p-Xylene

Concen: 0.47 ppbv m

RT: 12.96 min Scan# 3164

Delta R.T. -0.01 min

Lab File: VL038511.D

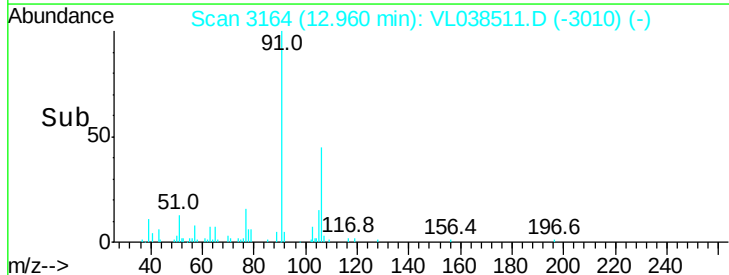
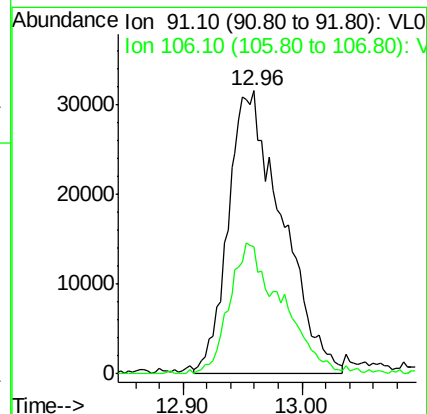
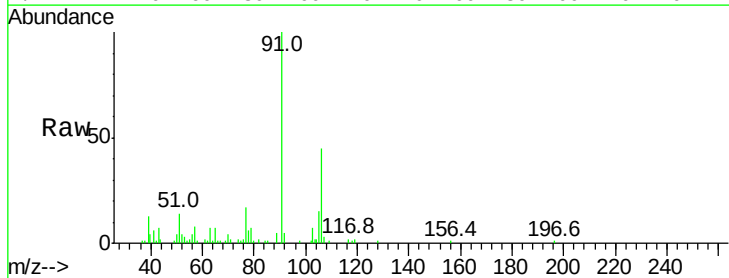
Acq: 3 Mar 2022 12:50

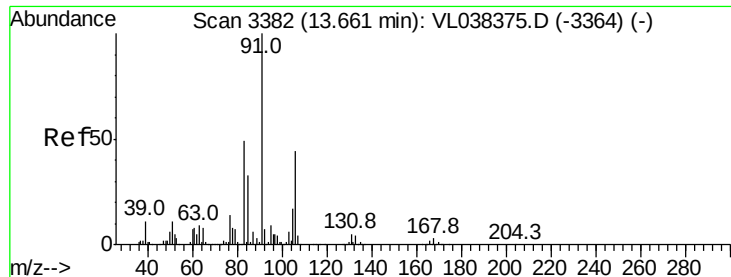
Tgt Ion: 91 Resp: 100420

Ion Ratio Lower Upper

91 100

106 0.0 34.4 51.6#



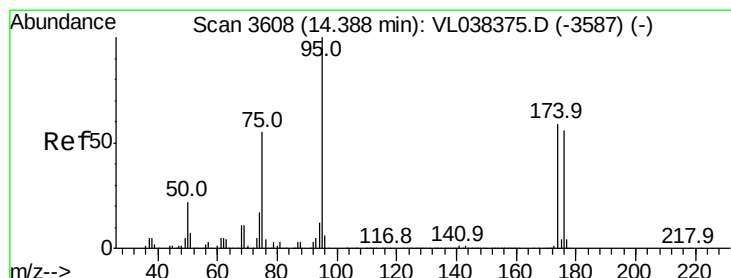
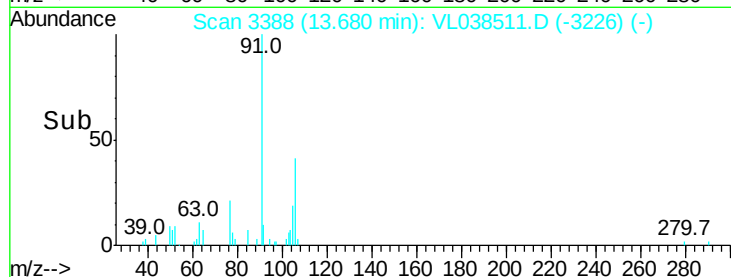
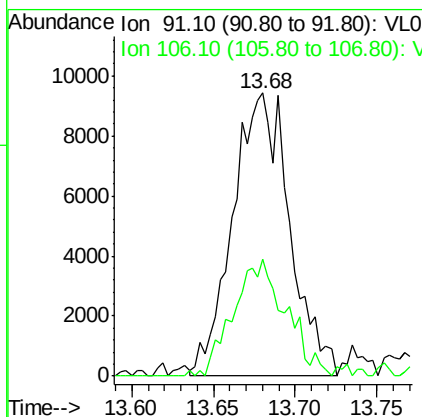
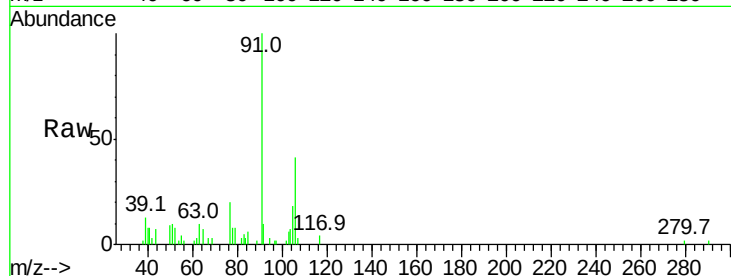


#60
o-Xylene
Concen: 0.11 ppbv m
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 12:50

Tgt Ion:
Ion Ratio
91 100
106 40.

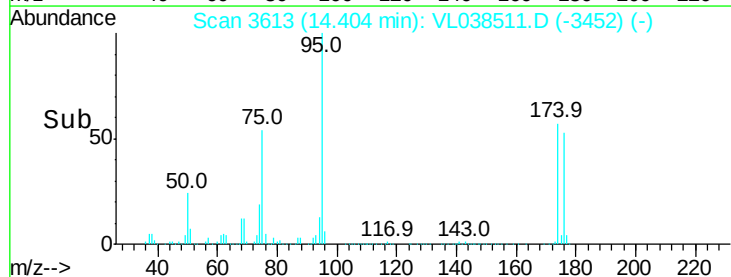
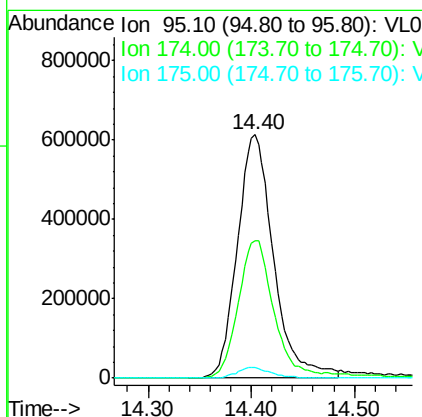
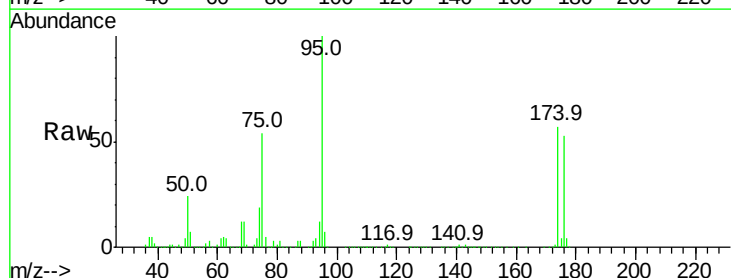
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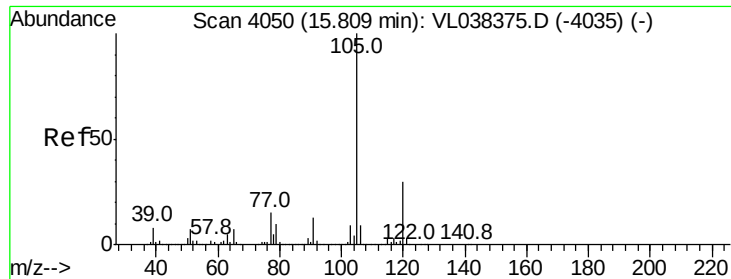
Reviewed By :Semsettin Yesilyurt 03/05/2022
Supervised By :Mahesh Dadoda 03/05/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.00 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. 0.02 min
Lab File: VL038511.D
Acq: 3 Mar 2022 12:50

Tgt Ion: 95 Resp: 1501132
Ion Ratio Lower Upper
95 100
174 58.2 49.0 73.4
175 4.2 3.6 5.4



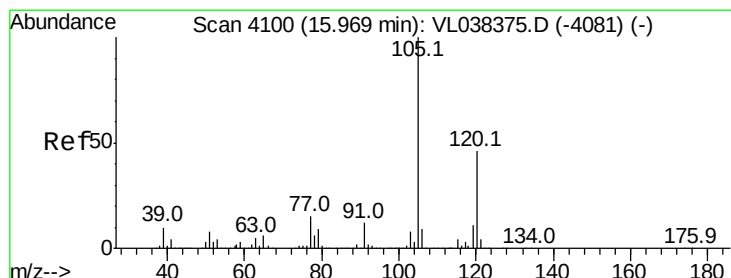
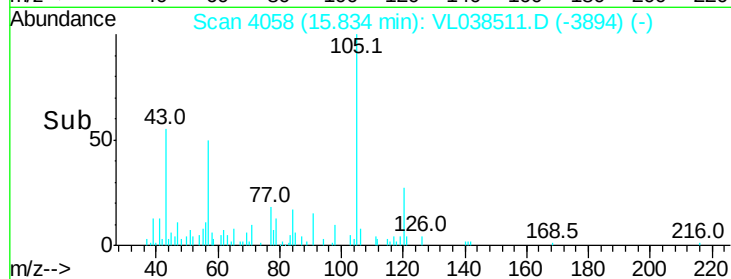
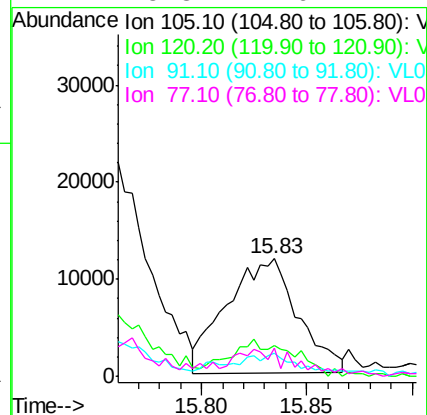
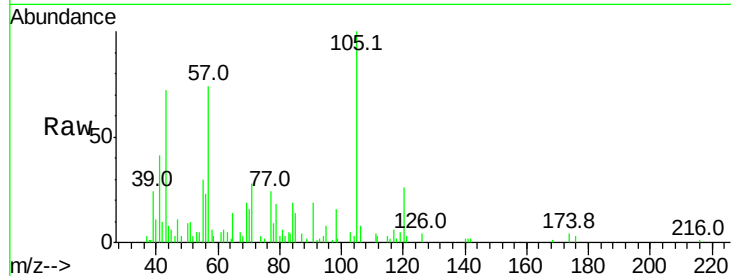


#72
 4-Ethyltoluene
 Concen: 0.12 ppbv
 RT: 15.83 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 12:50

Tgt Ion: 105.1
 Ion Ratio
 105 100
 120 30.1
 91 18.1
 77 25.3 11.6 17.4#

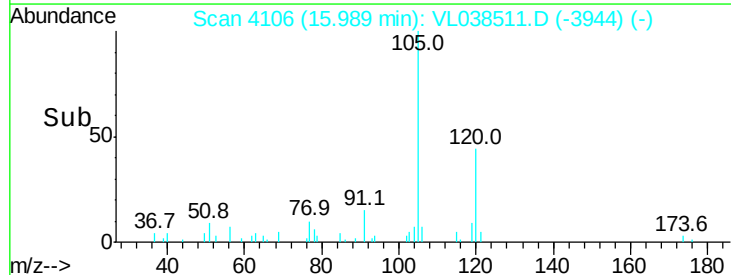
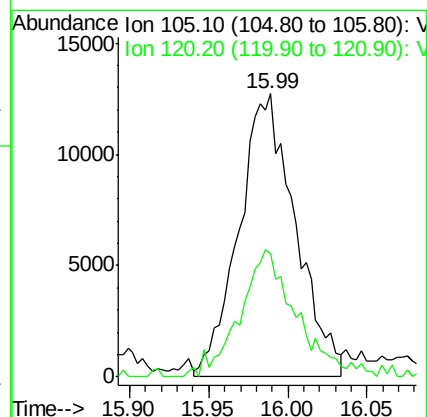
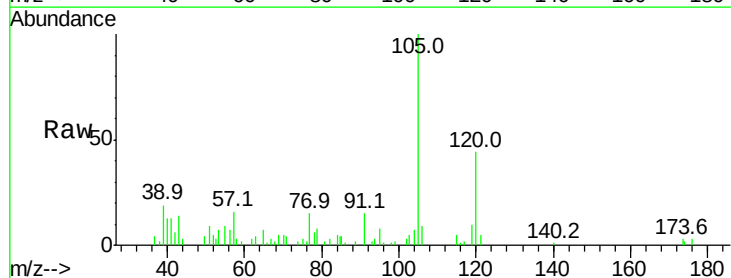
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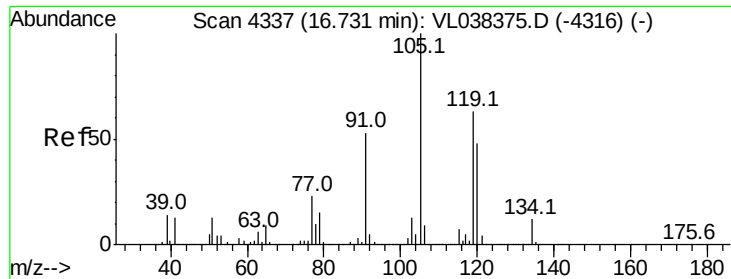
Reviewed By : Semsettin Yesilyurt 03/05/2022
 Supervised By : Mahesh Dadoda 03/05/2022



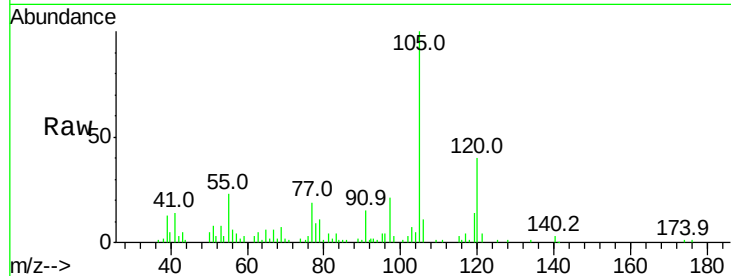
#73
 1,3,5-Trimethylbenzene
 Concen: 0.16 ppbv m
 RT: 15.99 min Scan# 4106
 Delta R.T. 0.02 min
 Lab File: VL038511.D
 Acq: 3 Mar 2022 12:50

Tgt Ion: 105 Resp: 31610
 Ion Ratio Lower Upper
 105 100
 120 43.7 36.6 55.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.40 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 12:30



Tgt Ion:1
 Ion Rati
 105 100
 120 39.
 91 15.
 77 17.6 18.5 27.7#

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Reviewed By :Semsettin Yesilyurt 03/05/2022
 Supervised By :Mahesh Dadoda 03/05/2022

