

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038399.D
 Acq On : 22 Feb 2022 22:10
 Operator : SY/AP
 Sample : N1607-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-10DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/23/2022
 Supervised By :Mahesh Dadoda 02/25/2022

Quant Time: Mar 03 06:11:17 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	5.67	49	904121	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2189616	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	2046372	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1663307	9.82	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds

						Qvalue
9) Propene	3.03	41	8648m	0.16	ppbv	
10) Heptane	8.12	43	307813	2.40	ppbv	99
13) Ethanol	3.62	45	26694m	5.07	ppbv	
15) Acetone	3.87	43	193020	2.51	ppbv	97
17) tert-Butyl alcohol	4.31	59	25133m	0.33	ppbv	
20) Methylene Chloride	4.35	84	9388m	0.25	ppbv	
26) Hexane	5.70	57	107623m	1.15	ppbv	
30) Cyclohexane	7.13	84	97651	1.28	ppbv #	76
34) 2-Butanone	5.26	43	28432	0.41	ppbv	99
36) Benzene	6.90	78	41507	0.22	ppbv #	93
44) 2,2,4-Trimethylpentane	7.87	57	139802m	0.42	ppbv	
53) Toluene	9.81	91	1642309	7.85	ppbv	99
58) Ethyl Benzene	12.71	91	351224	1.26	ppbv	91
59) m/p-Xylene	12.96	91	728000	3.03	ppbv	97
60) o-Xylene	13.69	91	314066	1.38	ppbv	99
62) Isopropylbenzene	14.66	105	77311	0.25	ppbv	98
64) n-propylbenzene	15.56	120	37600	0.50	ppbv	82
67) sec-Butylbenzene	17.29	105	60961	0.16	ppbv	97
70) n-Butylbenzene	18.55	91	68001m	0.22	ppbv	
72) 4-Ethyltoluene	15.83	105	157858	0.63	ppbv	96
73) 1,3,5-Trimethylbenzene	16.00	105	133593	0.59	ppbv	90
74) 1,2,4-Trimethylbenzene	16.76	105	365041	1.52	ppbv #	69

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

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MP-10DL

Manual Integrations
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Quant Time: Mar 03 06:11:17 2022

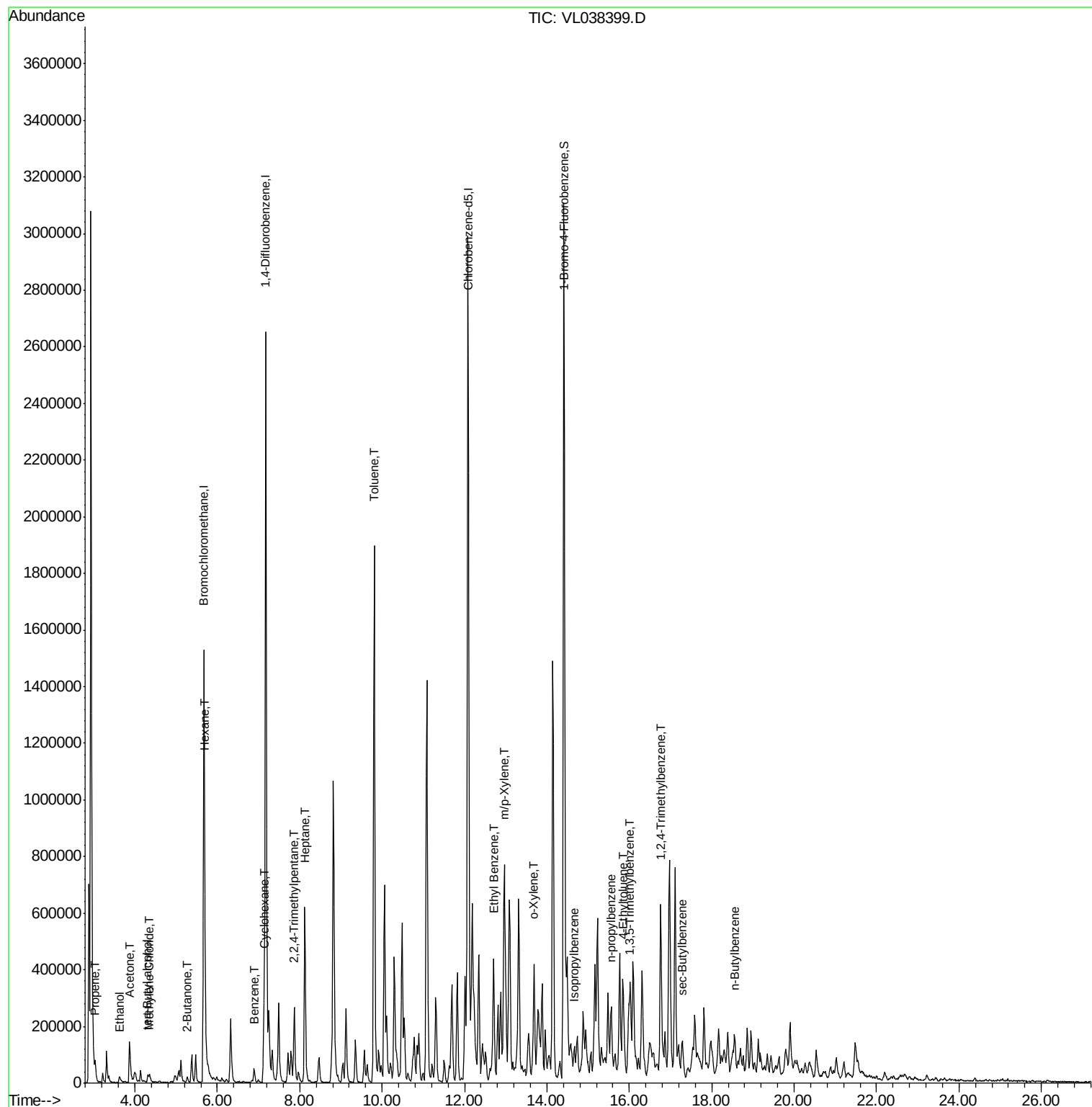
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL022222

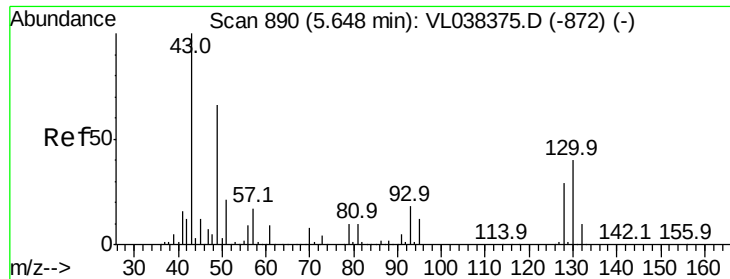
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

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

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 02/23/2022
Supervised By :Mahesh Dadoda 02/25/2022





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: MP-10DL

Acq: 22 Feb 2022 22:10

Tgt Ion:

Ion Ratio

49 100

128 47.

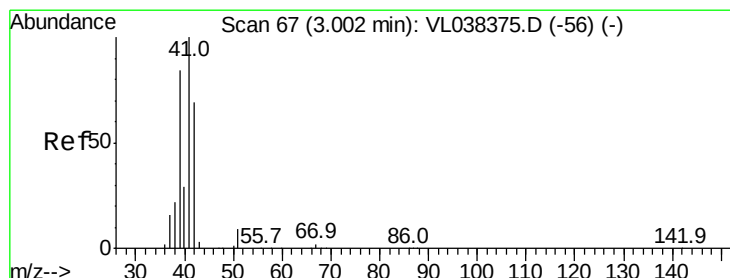
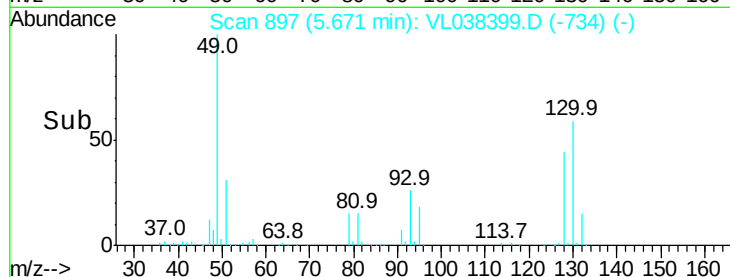
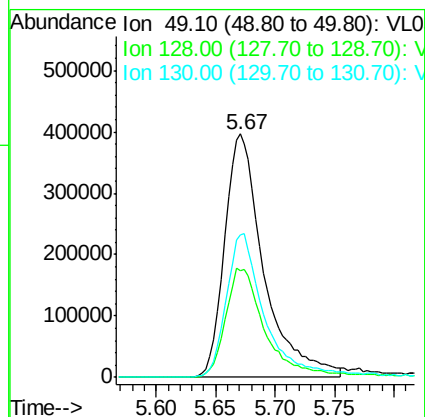
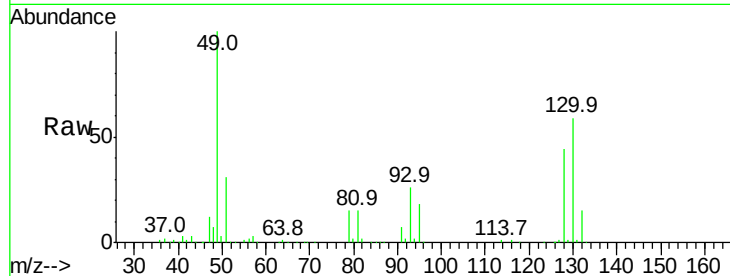
130 60.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/23/2022

Supervised By :Mahesh Dadoda 02/25/2022



#9

Propene

Concen: 0.16 ppbv m

RT: 3.03 min Scan# 75

Delta R.T. 0.03 min

Lab File: VL038399.D

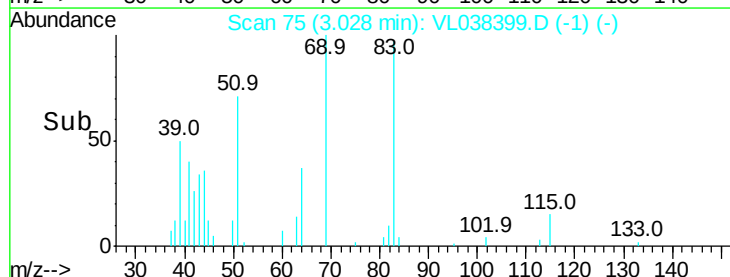
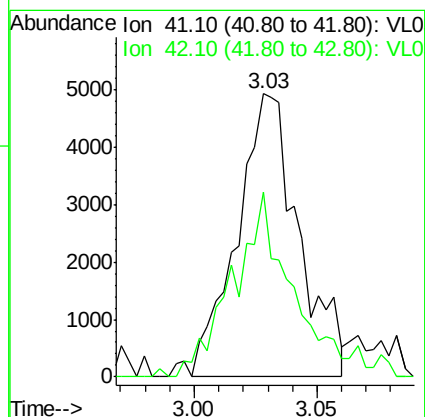
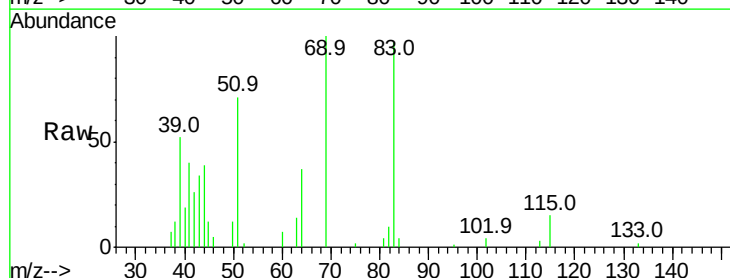
Acq: 22 Feb 2022 22:10

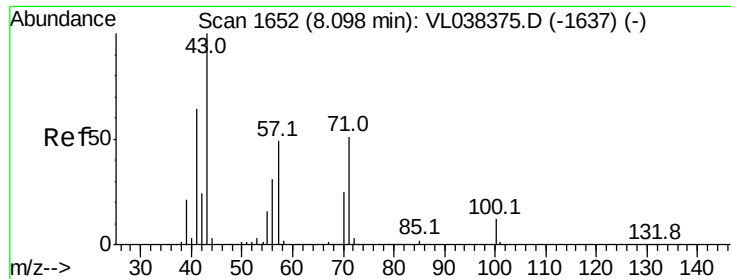
Tgt Ion: 41 Resp: 8648

Ion Ratio Lower Upper

41 100

42 29.7 54.6 82.0#





#10

Heptane

Concen: 2.40 ppbv

RT: 8.12 Instrument: MSVOA_1

Delta R.T. 0.02

Lab File: ClientSampleId:

Acq: 22 Feb 2022 22:10

Tgt Ion:

Ion Ratio

43 100

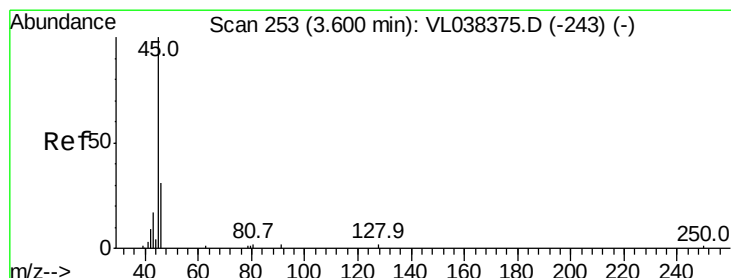
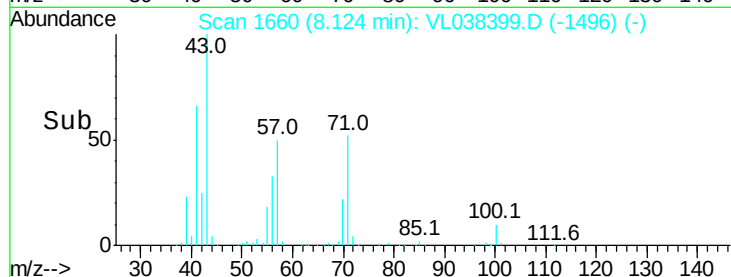
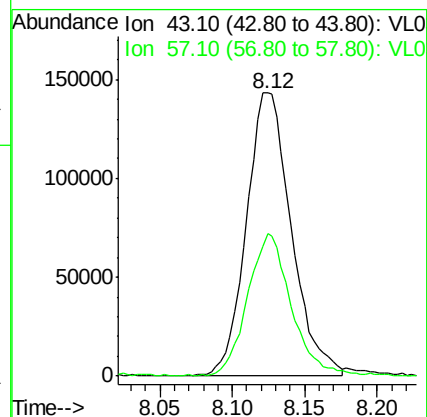
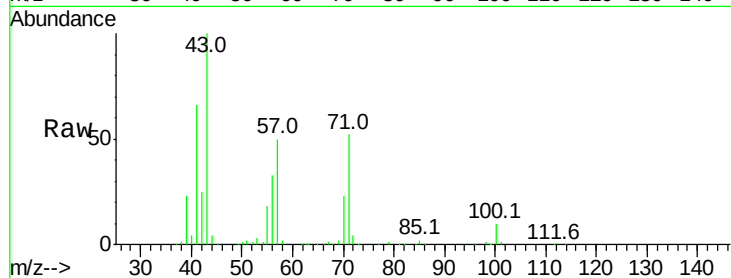
57 48.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/23/2022

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#13

Ethanol

Concen: 5.07 ppbv m

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL038399.D

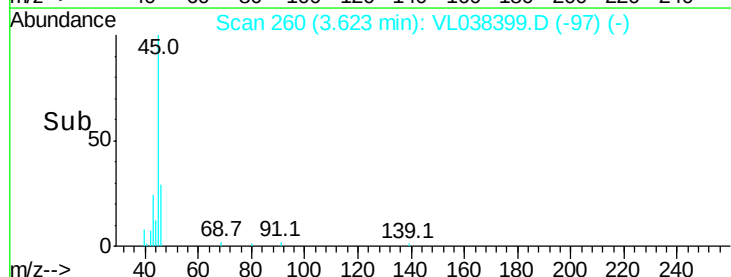
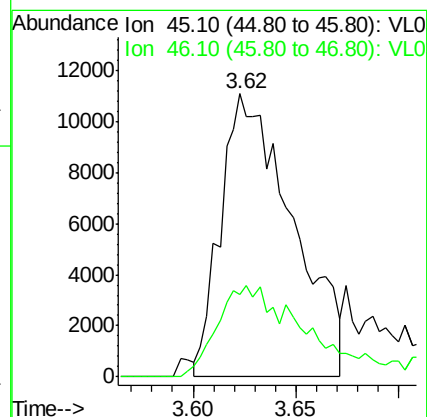
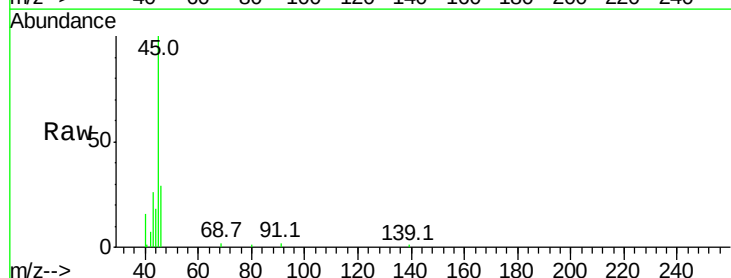
Acq: 22 Feb 2022 22:10

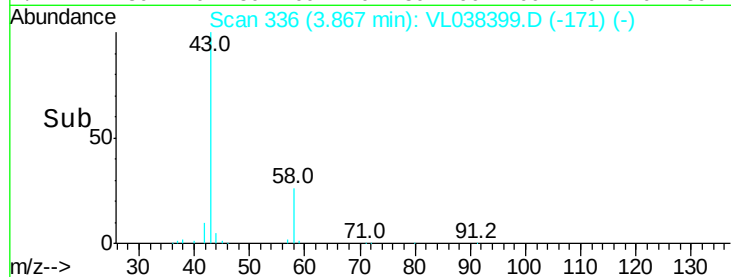
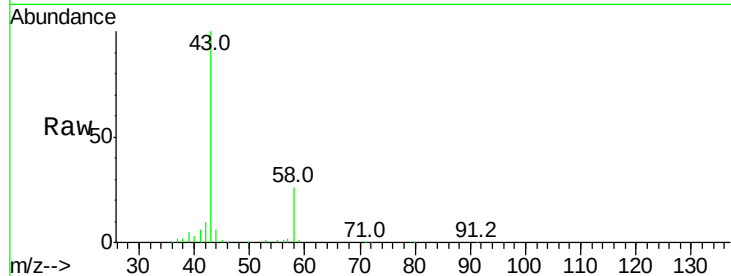
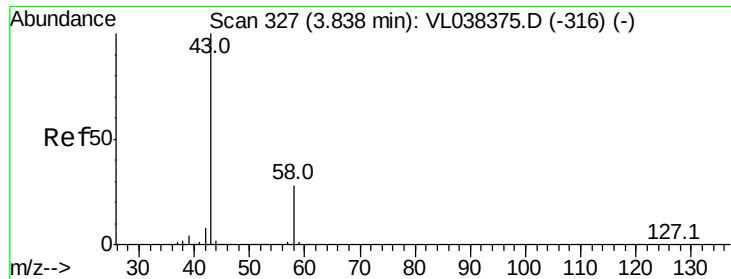
Tgt Ion: 45 Resp: 26694

Ion Ratio Lower Upper

45 100

46 38.8 18.2 72.8





#15

Acetone

Concen: 2.51 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 22:10 MP-10DL

Tgt Ion:

Ion Ratio

43 100

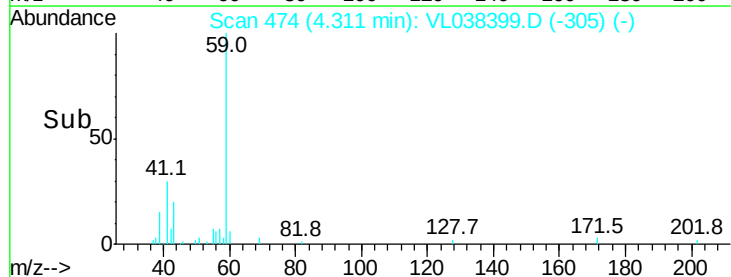
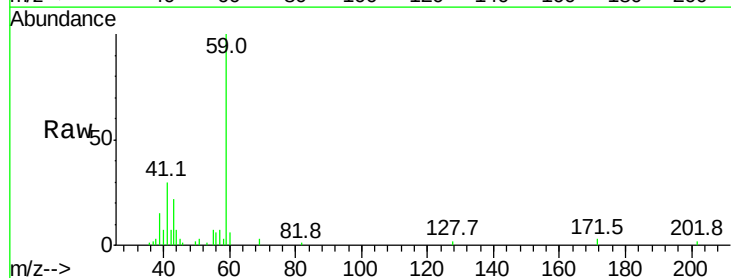
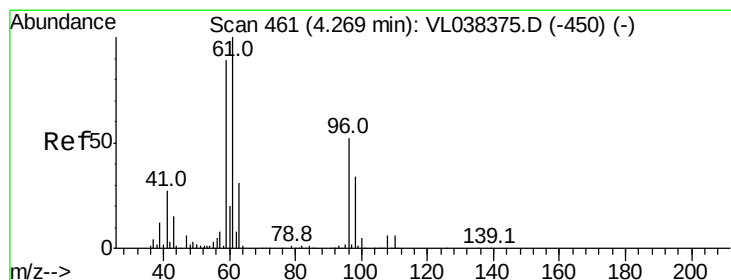
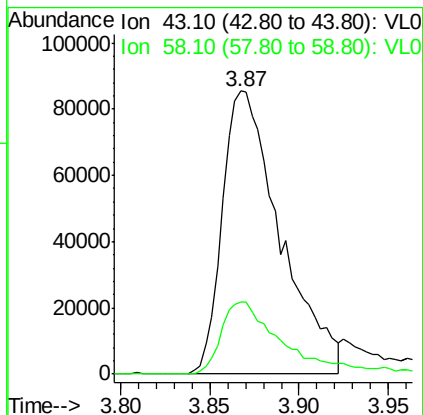
58 28.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/23/2022

Supervised By :Mahesh Dadoda 02/25/2022



#17

tert-Butyl alcohol

Concen: 0.33 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. 0.04 min

Lab File: VL038399.D

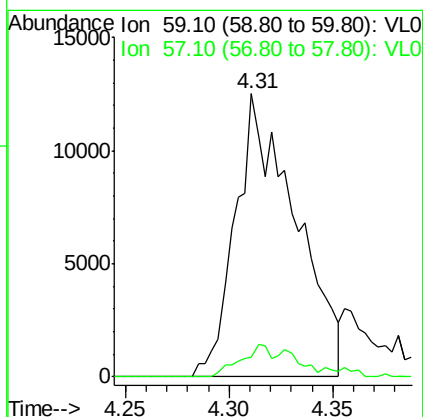
Acq: 22 Feb 2022 22:10

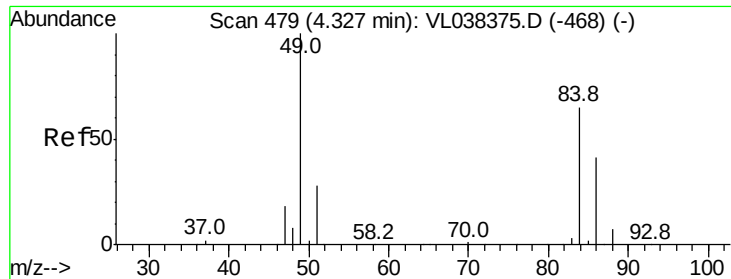
Tgt Ion: 59 Resp: 25133

Ion Ratio Lower Upper

59 100

57 11.0 8.4 12.6



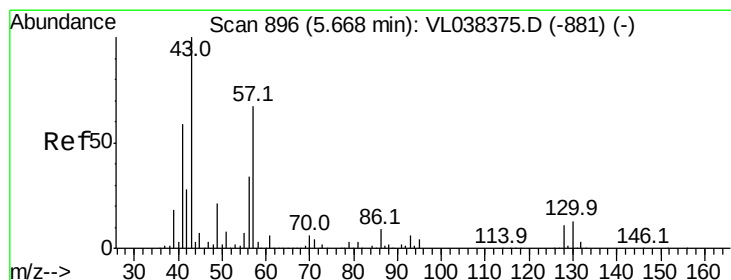
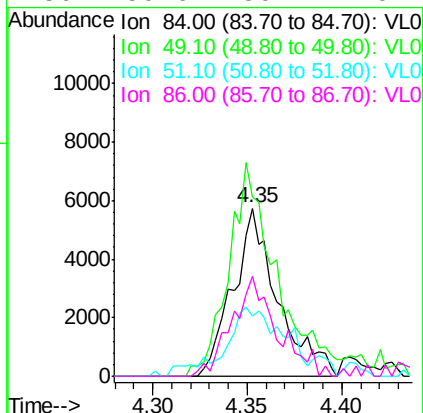
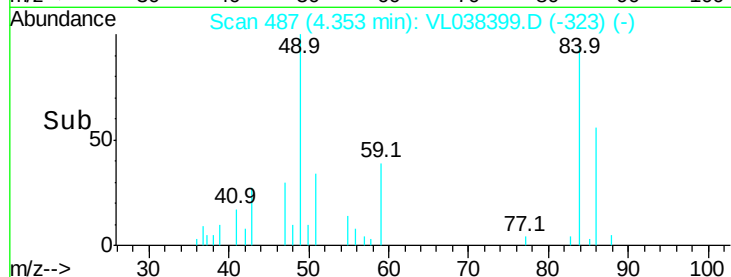
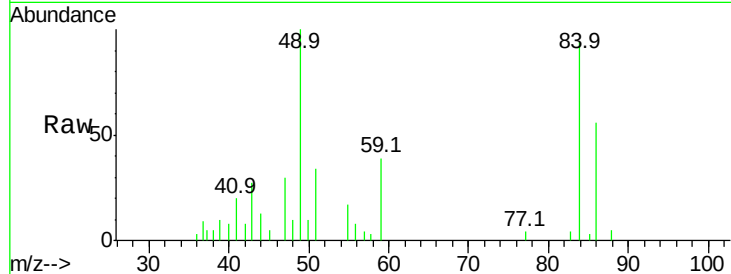


#20
Methylene Chloride
Concen: 0.25 ppbv m
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 22 Feb 2022 22:10

Tgt Ion: 84
Ion Ratio: 100
49 106.
51 35.
86 59.6 50.7 76.1

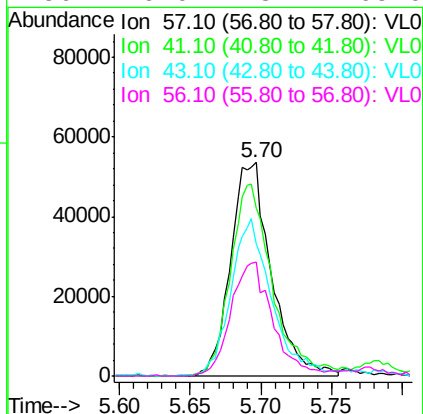
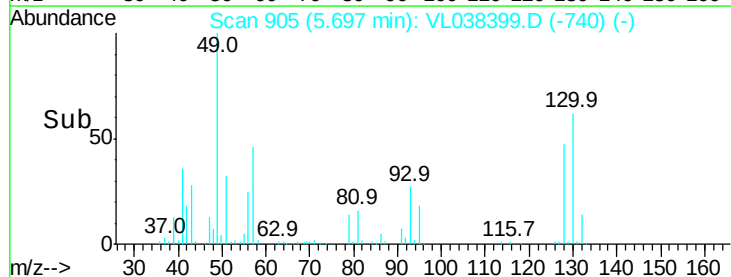
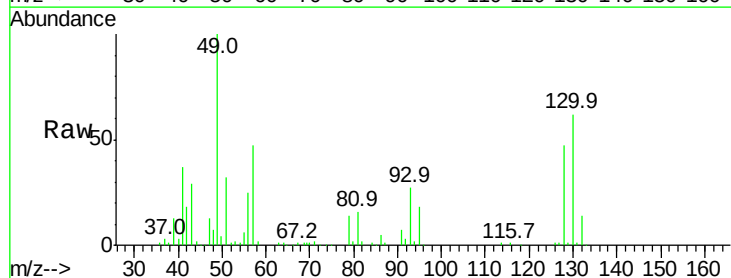
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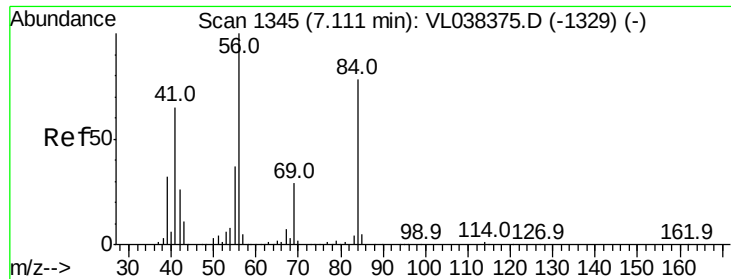
Reviewed By :Semsettin Yesilyurt 02/23/2022
Supervised By :Mahesh Dadoda 02/25/2022



#26
Hexane
Concen: 1.15 ppbv m
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL038399.D
Acq: 22 Feb 2022 22:10

Tgt Ion: 57 Resp: 107623
Ion Ratio Lower Upper
57 100
41 0.0 73.1 109.7#
43 0.0 181.0 271.4#
56 0.0 43.4 65.0#



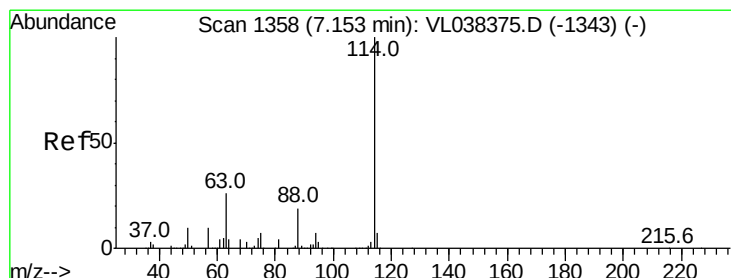
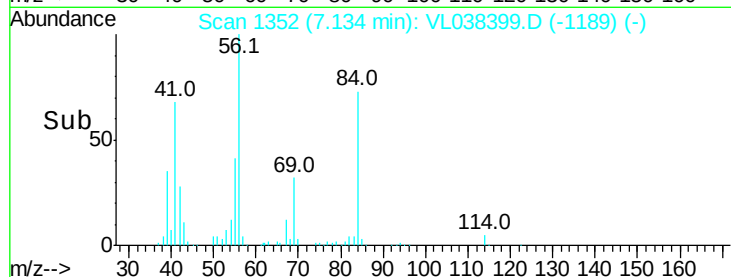
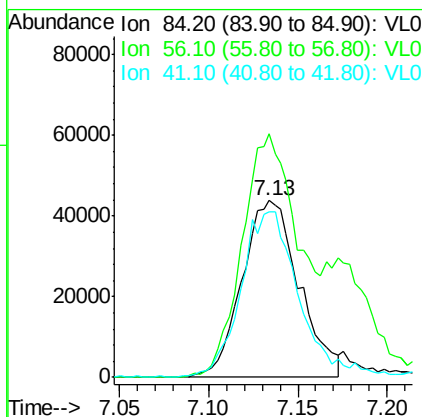
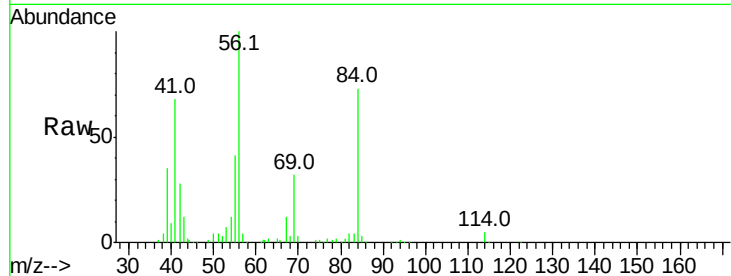


#30
Cyclohexane
Concen: 1.28 ppbv
RT: 7.13
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 22 Feb 2022 22:10

Tgt Ion:
Ion Ratio
84 100
56 190.
41 95.

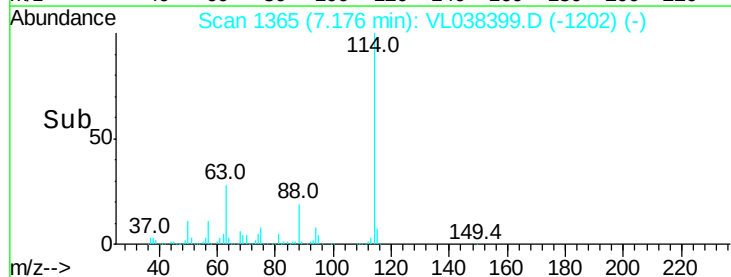
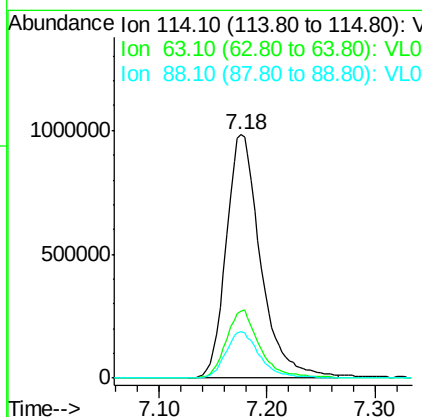
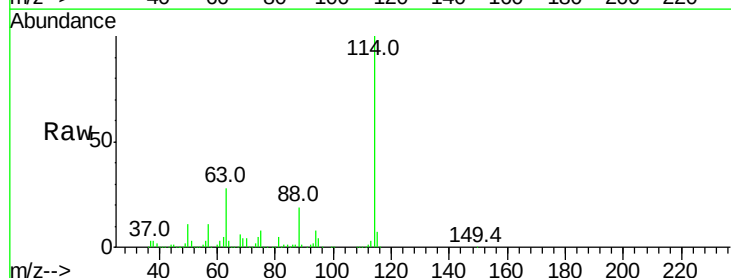
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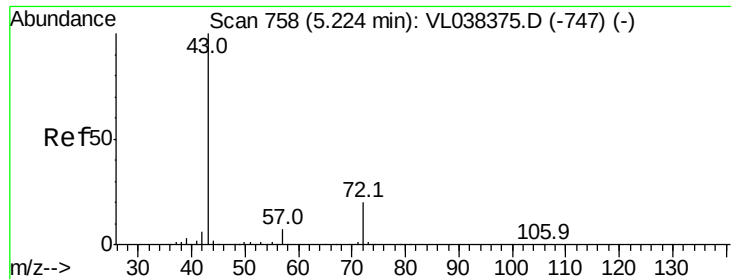
Reviewed By :Semsettin Yesilyurt 02/23/2022
Supervised By :Mahesh Dadoda 02/25/2022



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. 0.02 min
Lab File: VL038399.D
Acq: 22 Feb 2022 22:10

Tgt Ion:114 Resp: 2189616
Ion Ratio Lower Upper
114 100
63 27.6 22.2 33.2
88 19.1 15.2 22.8



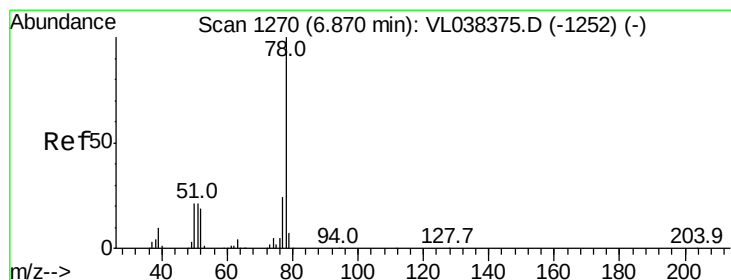
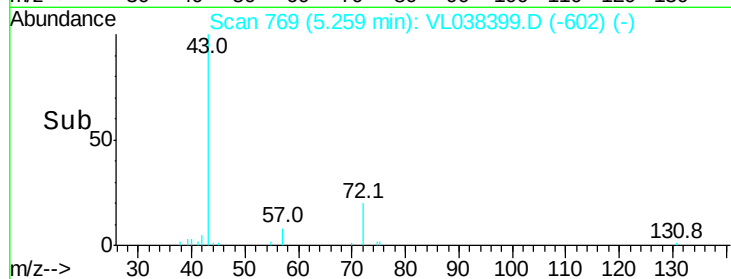
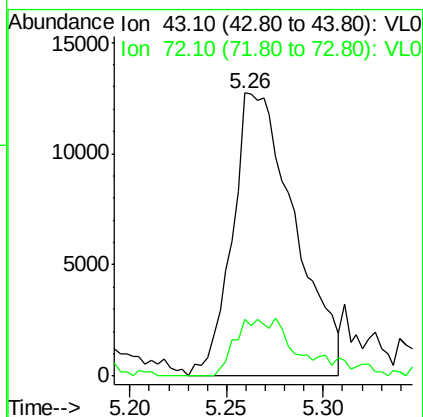
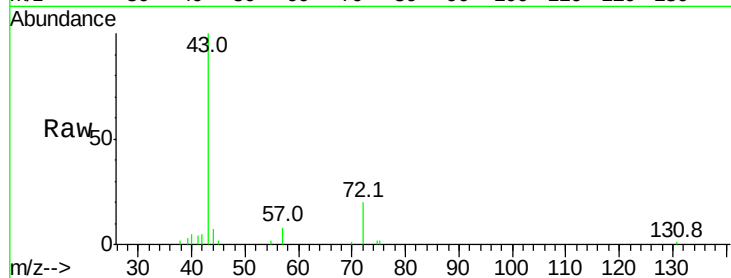


#34
2-Butanone
Concen: 0.41 ppbv
RT: 5.26
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
MP-10DL
Acq: 22 Feb 2022 22:10

Tgt Ion:
Ion Ratio
43 100
72 21.

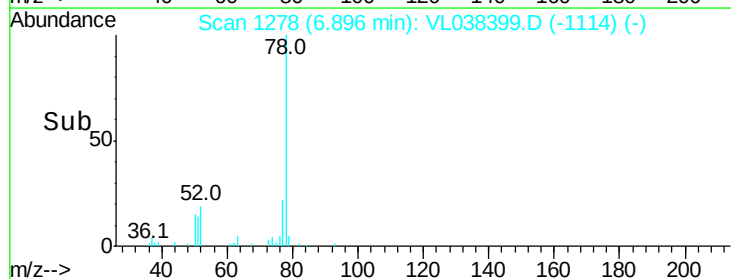
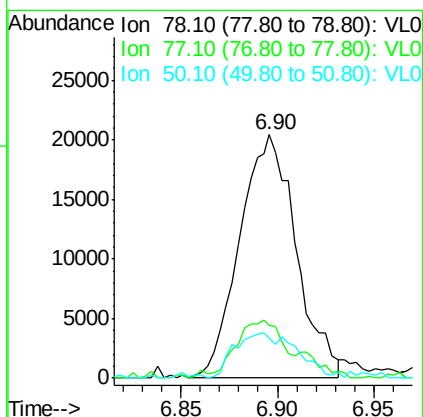
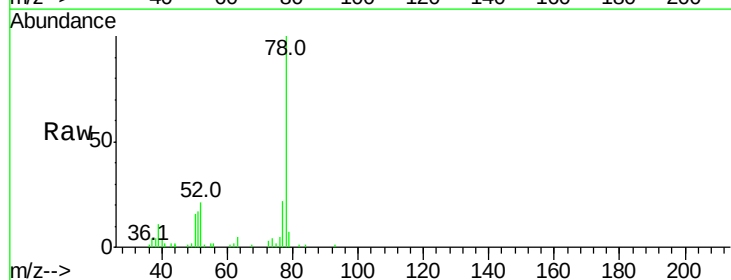
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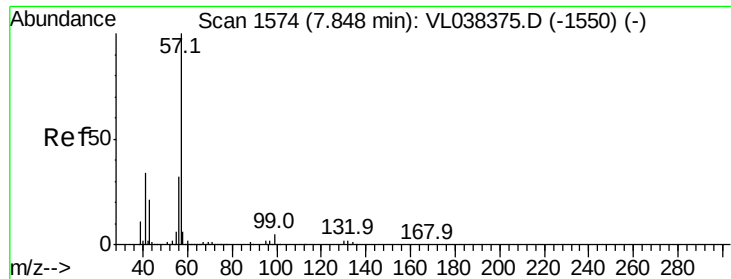
Reviewed By :Semsettin Yesilyurt 02/23/2022
Supervised By :Mahesh Dadoda 02/25/2022



#36
Benzene
Concen: 0.22 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.03 min
Lab File: VL038399.D
Acq: 22 Feb 2022 22:10

Tgt Ion: 78 Resp: 41507
Ion Ratio Lower Upper
78 100
77 22.0 19.0 28.6
50 15.4 16.6 24.8#



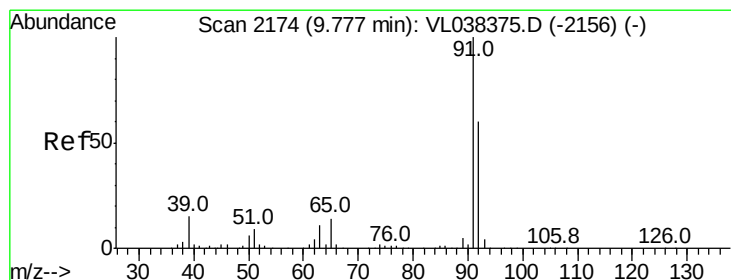
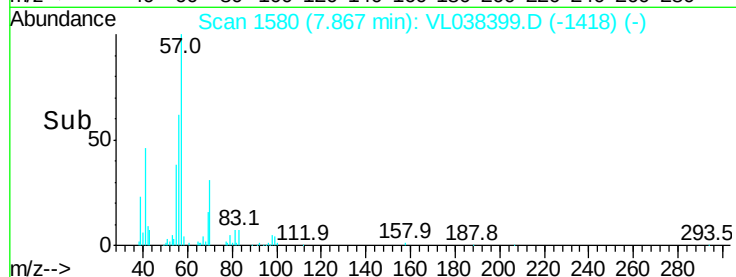
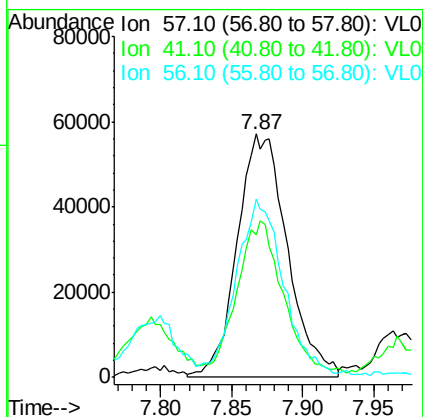
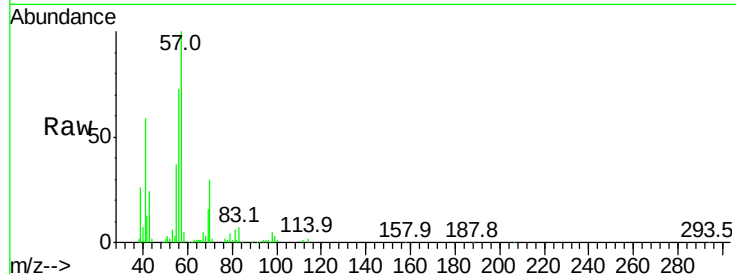


#44
 2,2,4-Trimethylpentane
 Concen: 0.42 ppbv m
 RT: 7.87
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 22:10

Tgt Ion:
 Ion Ratio
 57 100
 41 0.
 56 0.

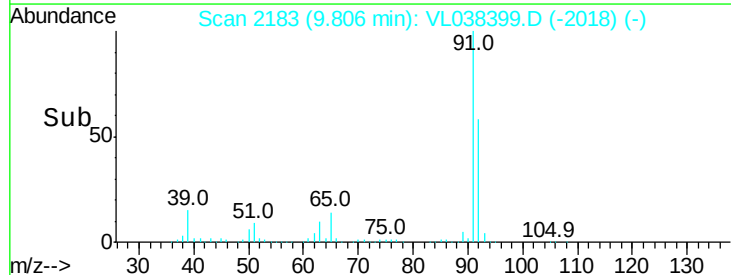
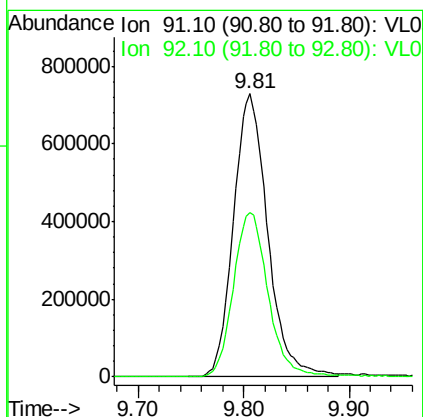
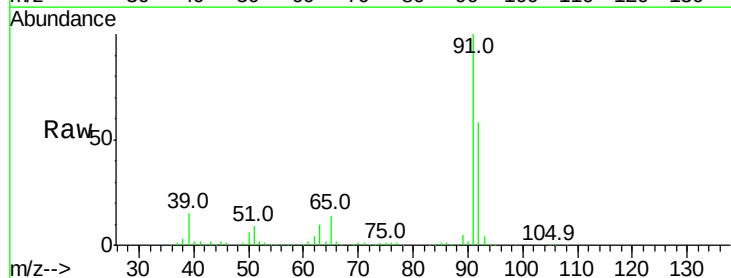
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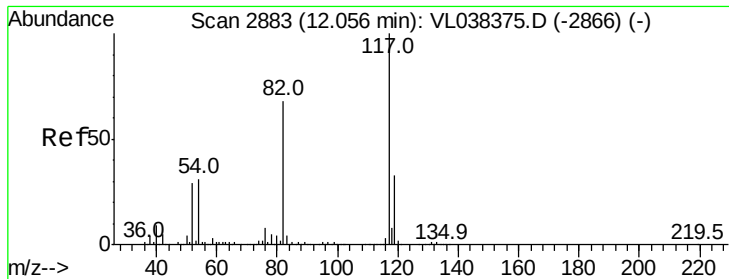
Reviewed By :Semsettin Yesilyurt 02/23/2022
 Supervised By :Mahesh Dadoda 02/25/2022



#53
 Toluene
 Concen: 7.85 ppbv
 RT: 9.81 min Scan# 2183
 Delta R.T. 0.03 min
 Lab File: VL038399.D
 Acq: 22 Feb 2022 22:10

Tgt Ion: 91 Resp: 1642309
 Ion Ratio Lower Upper
 91 100
 92 59.8 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 22:10

Tgt Ion:1

Ion Rati

117 100

82 66.

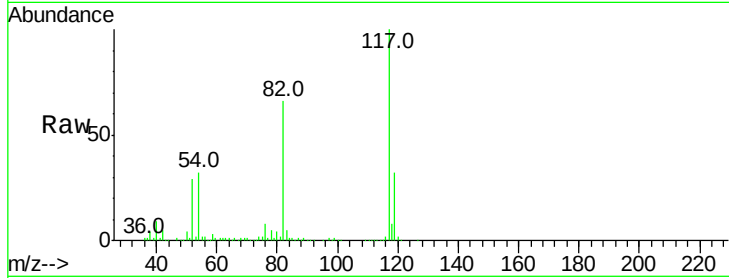
119 34.

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Reviewed By :Semsettin Yesilyurt 02/23/2022

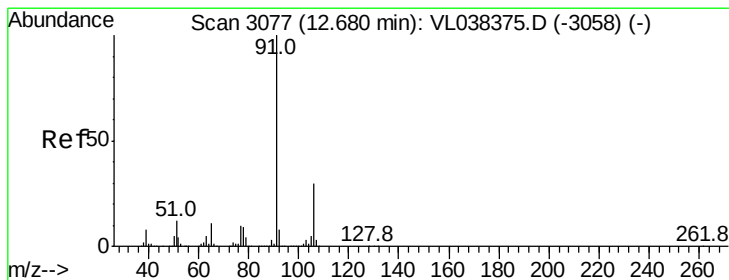
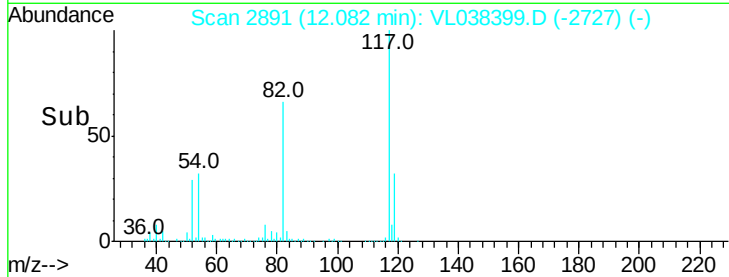
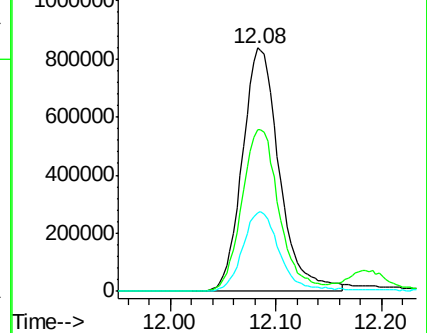
Supervised By :Mahesh Dadoda 02/25/2022



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 1.26 ppbv

RT: 12.71 min Scan# 3086

Delta R.T. 0.03 min

Lab File: VL038399.D

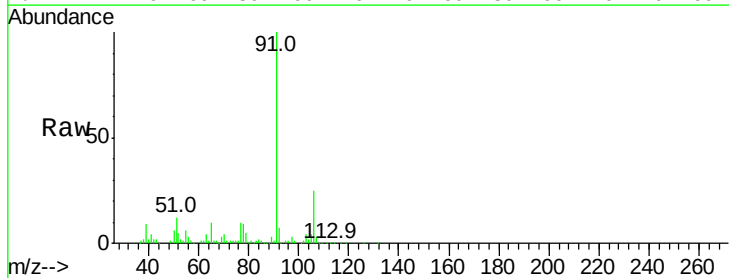
Acq: 22 Feb 2022 22:10

Tgt Ion: 91 Resp: 351224

Ion Ratio Lower Upper

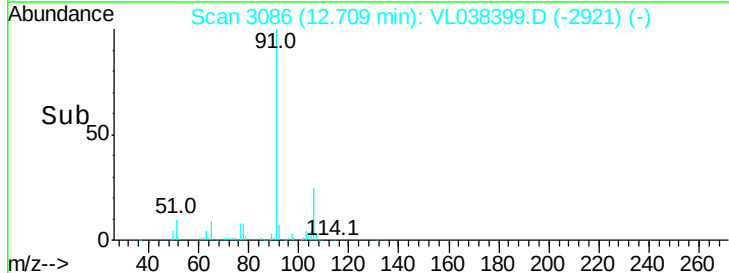
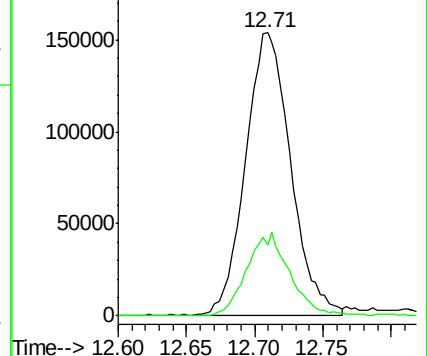
91 100

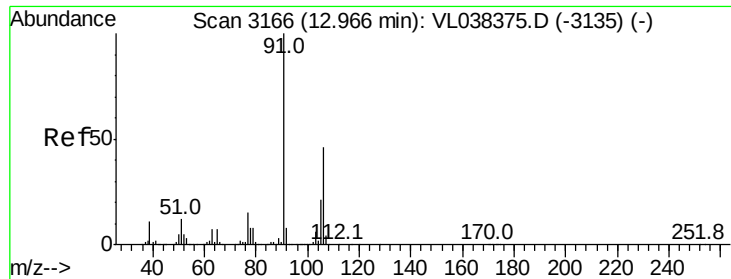
106 25.2 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



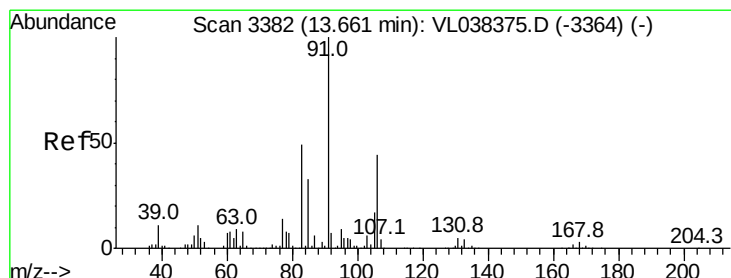
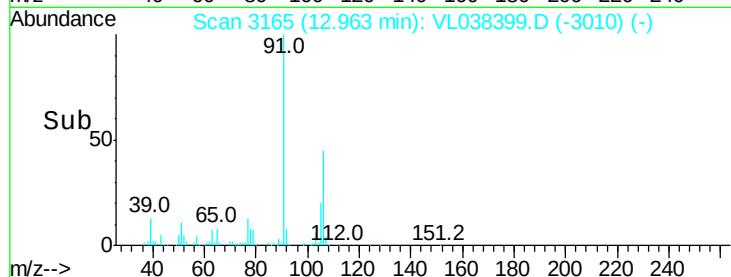
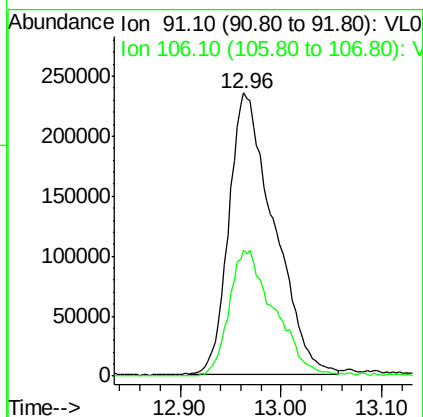
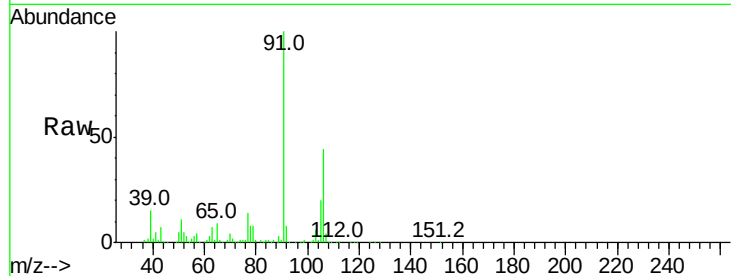


#59
m/p-Xylene
Concen: 3.03 ppbv
RT: 12.96 min
Instrument: MSVOA_1
Delta R.T.: 0.03 min
Lab File: ClientSampleId :
Acq: 22 Feb 2022 22:10

Tgt Ion:
Ion Ratio
91 100
106 45.

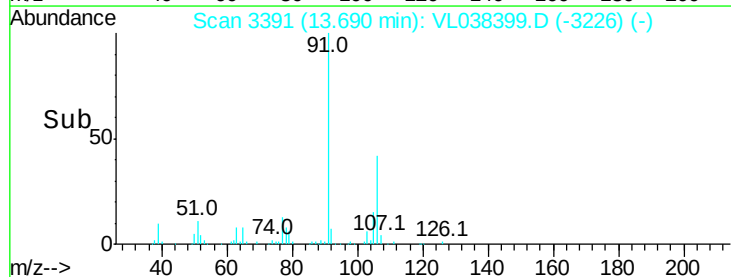
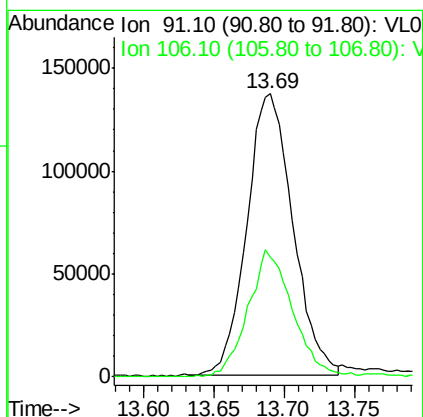
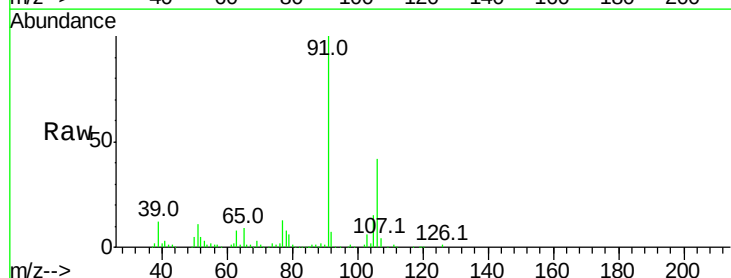
Manual Integrations
APPROVED

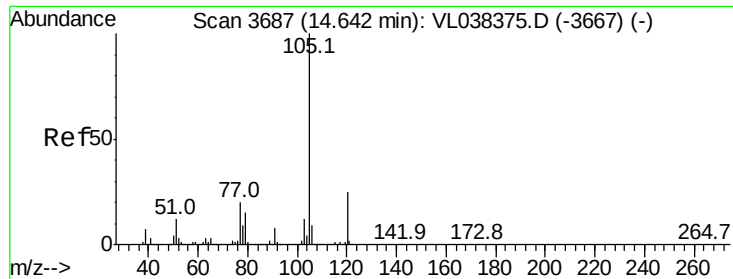
Reviewed By :Semsettin Yesilyurt 02/23/2022
Supervised By :Mahesh Dadoda 02/25/2022



#60
o-Xylene
Concen: 1.38 ppbv
RT: 13.69 min Scan# 3391
Delta R.T.: 0.03 min
Lab File: VL038399.D
Acq: 22 Feb 2022 22:10

Tgt Ion: 91 Resp: 314066
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.5





#62

Isopropylbenzene

Concen: 0.25 ppbv

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 22:10

Tgt Ion:1

Ion Ratio

105 100

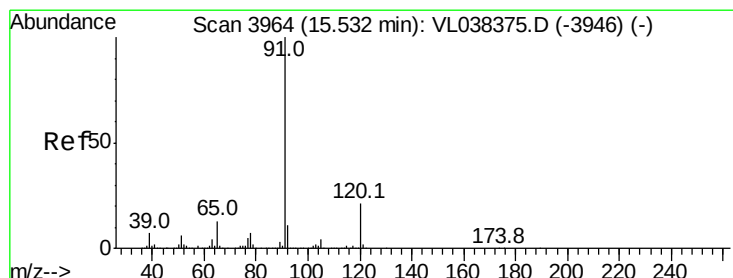
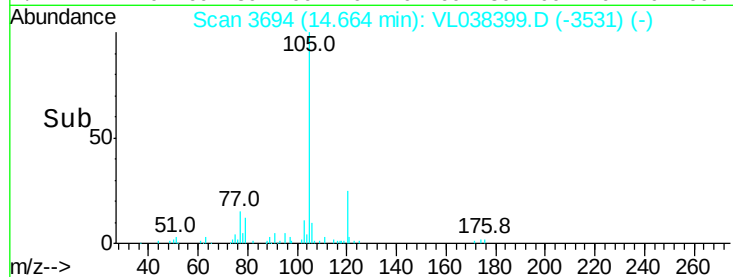
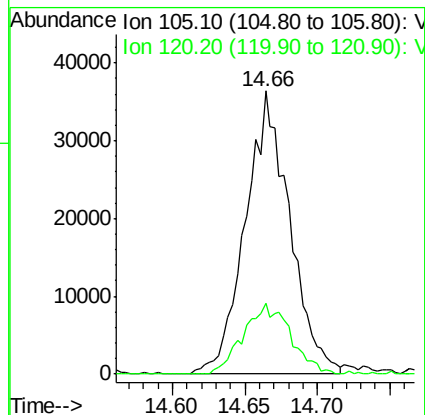
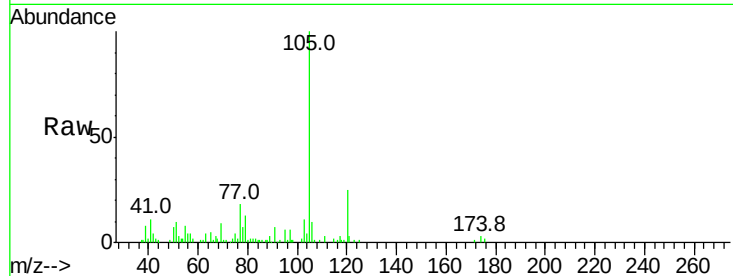
120 26.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/23/2022

Supervised By :Mahesh Dadoda 02/25/2022



#64

n-propylbenzene

Concen: 0.50 ppbv

RT: 15.56 min Scan# 3973

Delta R.T. 0.03 min

Lab File: VL038399.D

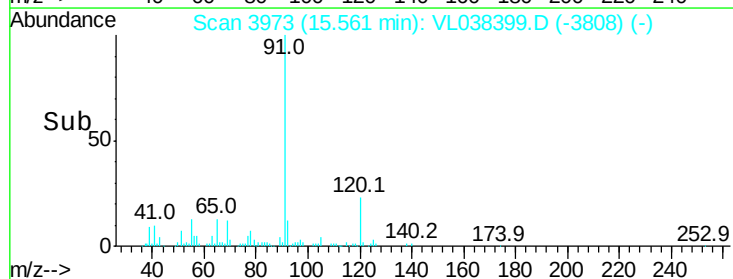
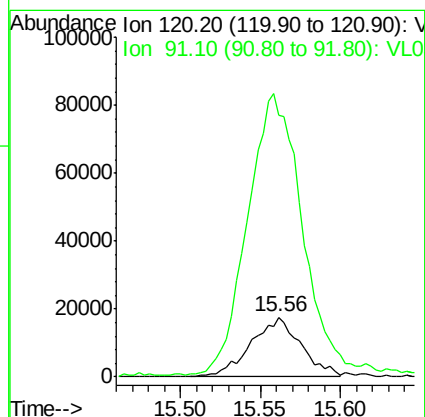
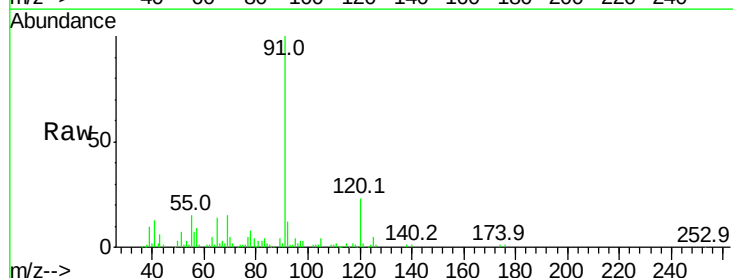
Acq: 22 Feb 2022 22:10

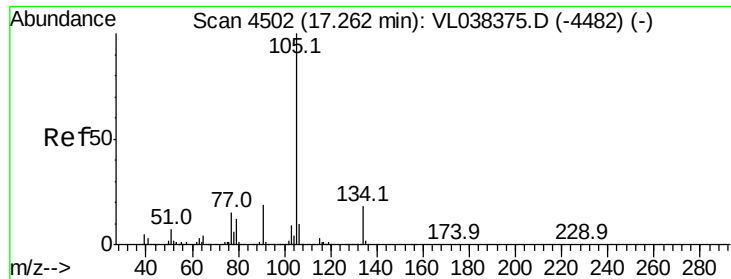
Tgt Ion:120 Resp: 37600

Ion Ratio Lower Upper

120 100

91 534.1 388.1 582.1





#67

sec-Butylbenzene

Concen: 0.16 ppbv

RT: 17.29

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 22:10

Tgt Ion:1

Ion Rati

105 100

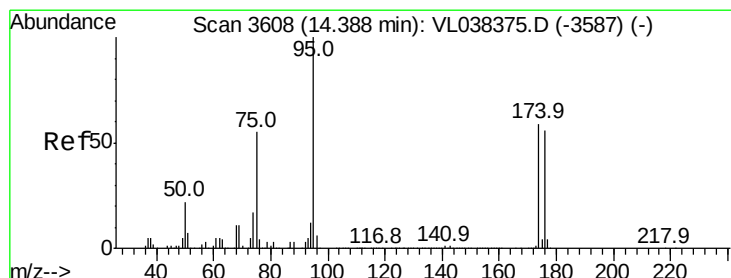
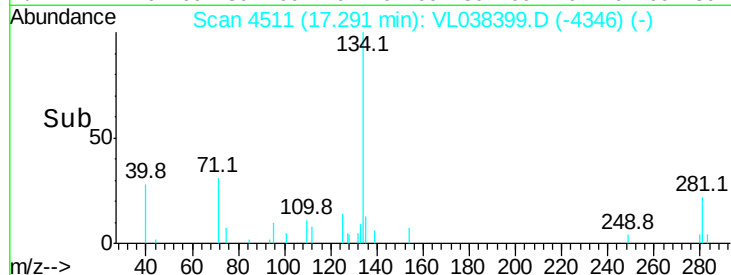
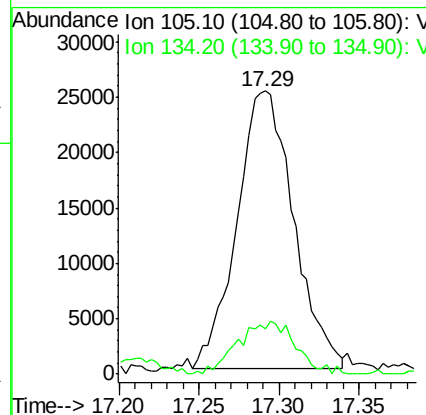
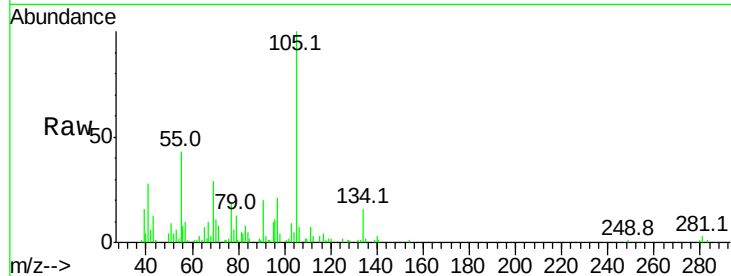
134 19.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/23/2022

Supervised By :Mahesh Dadoda 02/25/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 9.82 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.03 min

Lab File: VL038399.D

Acq: 22 Feb 2022 22:10

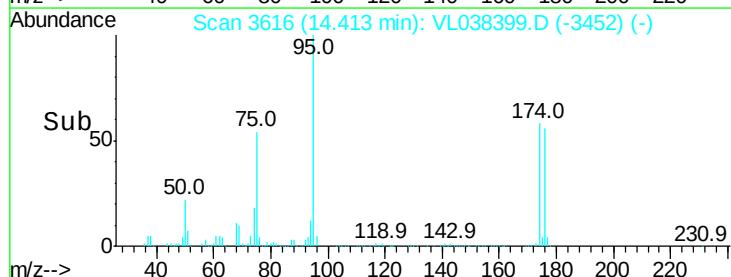
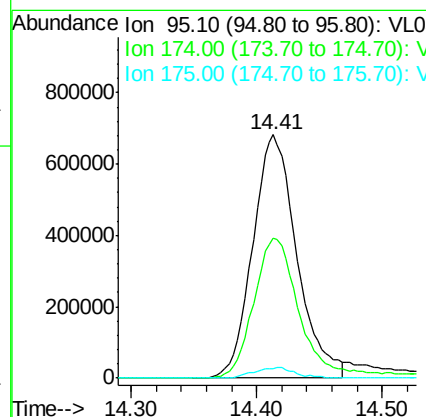
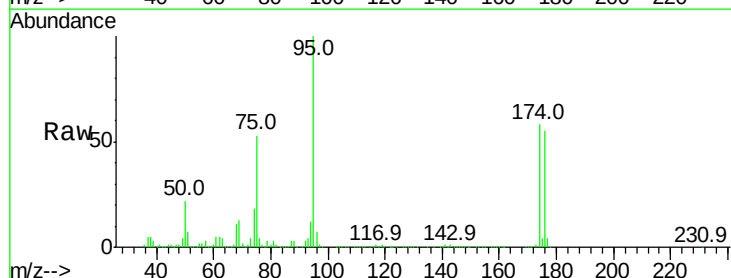
Tgt Ion: 95 Resp: 1663307

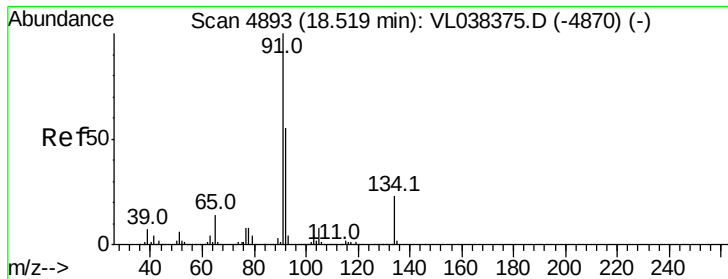
Ion Ratio Lower Upper

95 100

174 63.2 49.0 73.4

175 4.6 3.6 5.4





#70

n-Butylbenzene

Concen: 0.22 ppbv m

RT: 18.55

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 22:10

Tgt Ion:

Ion Ratio

91 100

92 36.

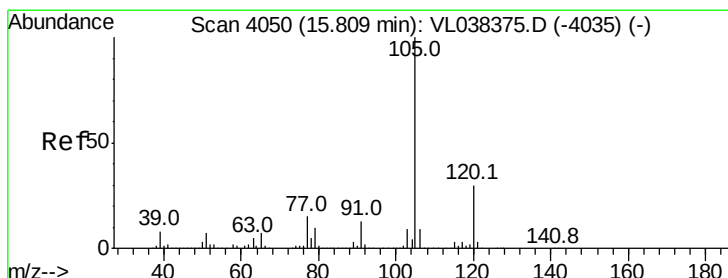
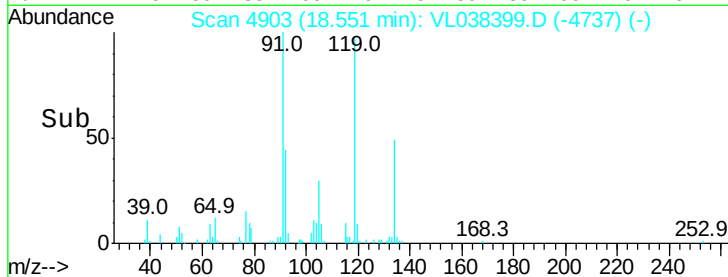
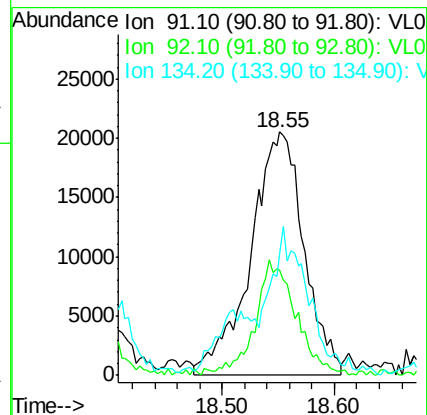
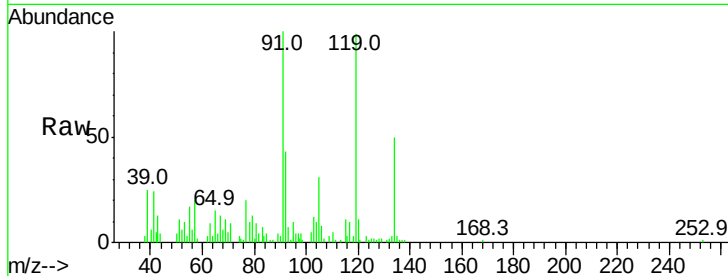
134 63.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/23/2022

Supervised By :Mahesh Dadoda 02/25/2022



#72

4-Ethyltoluene

Concen: 0.63 ppbv

RT: 15.83 min Scan# 4057

Delta R.T. 0.02 min

Lab File: VL038399.D

Acq: 22 Feb 2022 22:10

Tgt Ion:105 Resp: 157858

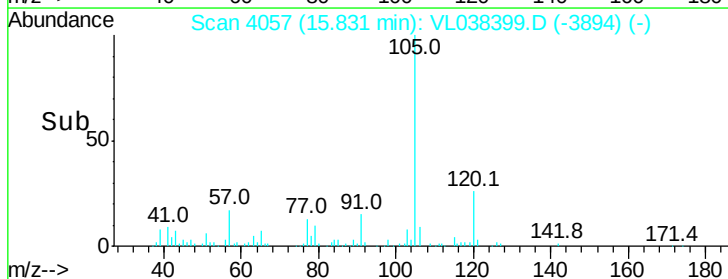
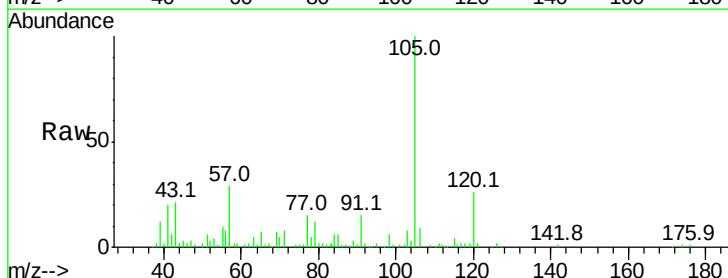
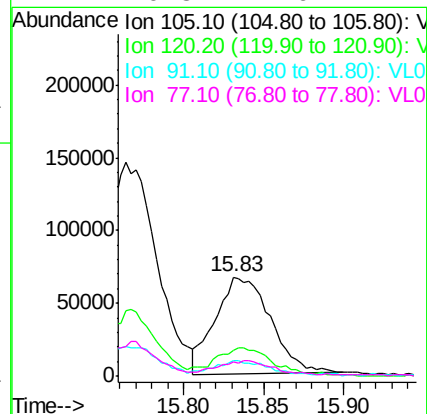
Ion Ratio Lower Upper

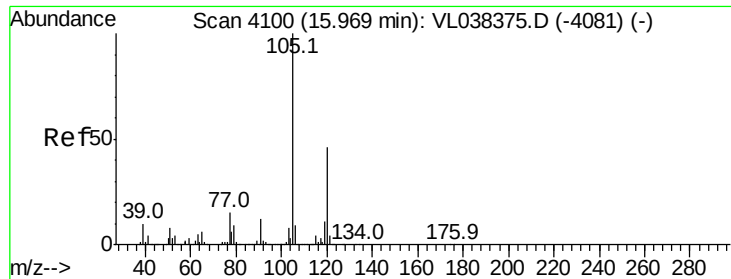
105 100

120 31.1 23.4 35.2

91 15.2 10.4 15.6

77 16.8 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 0.59 ppbv

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 22:10

Tgt Ion:1

Ion Rati

105 100

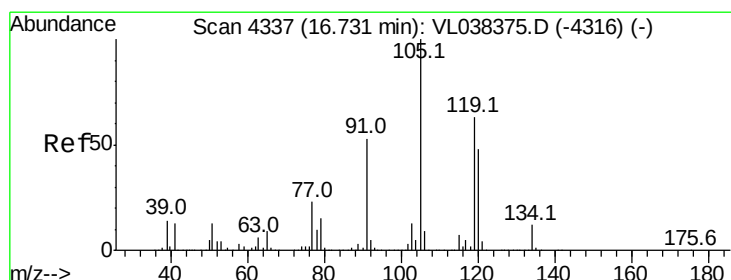
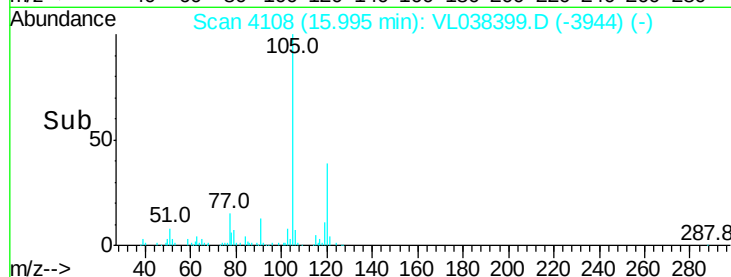
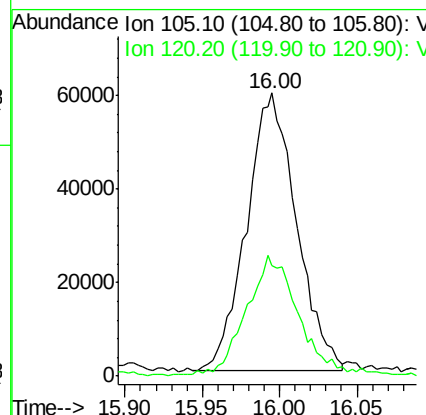
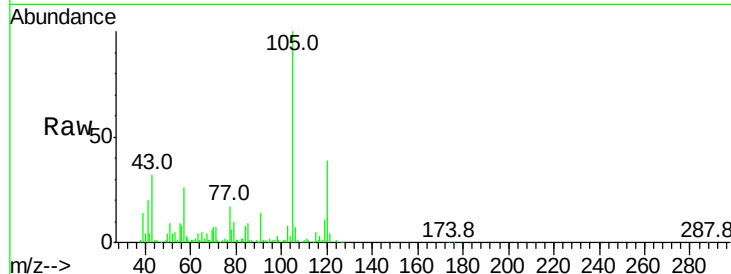
120 39.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/23/2022

Supervised By :Mahesh Dadoda 02/25/2022



#74

1,2,4-Trimethylbenzene

Concen: 1.52 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.03 min

Lab File: VL038399.D

Acq: 22 Feb 2022 22:10

Tgt Ion:105 Resp: 365041

Ion Ratio Lower Upper

105 100

120 41.7 38.2 57.4

91 12.4 42.7 64.1#

77 16.9 18.5 27.7#

