

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\
 Data File : VL038274.D
 Acq On : 25 Jan 2022 00:21
 Operator : SY/AP
 Sample : N1244-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022

Quant Time: Jan 25 03:01:17 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A

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

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	780416	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2006410	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1742546	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1357741	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	69634	0.419 ppbv	97
3) Chlorodifluoromethane	3.01	51	19182	0.123 ppbv	93
4) Chloromethane	3.16	50	6031	0.113 ppbv	95
9) Propene	3.03	41	325499	6.436 ppbv	90
10) Heptane	8.13	43	120050m	0.923 ppbv	
11) Trichlorofluoromethane	3.97	101	22152m	0.171 ppbv	
13) Ethanol	3.62	45	242110	44.593 ppbv	95
15) Acetone	3.86	43	4662653	67.775 ppbv	99
17) tert-Butyl alcohol	4.31	59	28363m	0.376 ppbv	
19) Isopropyl Alcohol	3.99	45	33628	0.781 ppbv #	91
20) Methylene Chloride	4.36	84	34847m	0.871 ppbv	
26) Hexane	5.70	57	147708	1.649 ppbv #	41
27) Carbon Disulfide	4.57	76	68260	0.651 ppbv	95
30) Cyclohexane	7.14	84	24424m	0.313 ppbv	
34) 2-Butanone	5.26	43	143195	2.182 ppbv	98
36) Benzene	6.90	78	93029	0.524 ppbv	100
44) 2,2,4-Trimethylpentane	7.88	57	75693	0.242 ppbv #	68
50) 4-Methyl-2-Pentanone	8.77	43	150780	1.288 ppbv	98
51) 2-Hexanone	10.16	43	51082m	0.991 ppbv	
52) Tetrachloroethene	11.24	164	1308888	21.399 ppbv	99
53) Toluene	9.82	91	2343689	11.931 ppbv	98
58) Ethyl Benzene	12.72	91	230727	0.901 ppbv	100
59) m/p-Xylene	12.98	91	767101m	3.511 ppbv	
60) o-Xylene	13.70	91	263429	1.296 ppbv	97
64) n-propylbenzene	15.57	120	19605m	0.301 ppbv	
69) p-Isopropyltoluene	17.66	119	30621	0.129 ppbv	95
70) n-Butylbenzene	18.56	91	36401m	0.156 ppbv	
72) 4-Ethyltoluene	15.84	105	118639	0.558 ppbv #	94
73) 1,3,5-Trimethylbenzene	16.01	105	91114m	0.477 ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	351617	1.746 ppbv #	73
79) Naphthalene	22.22	128	11130m	0.118 ppbv	

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

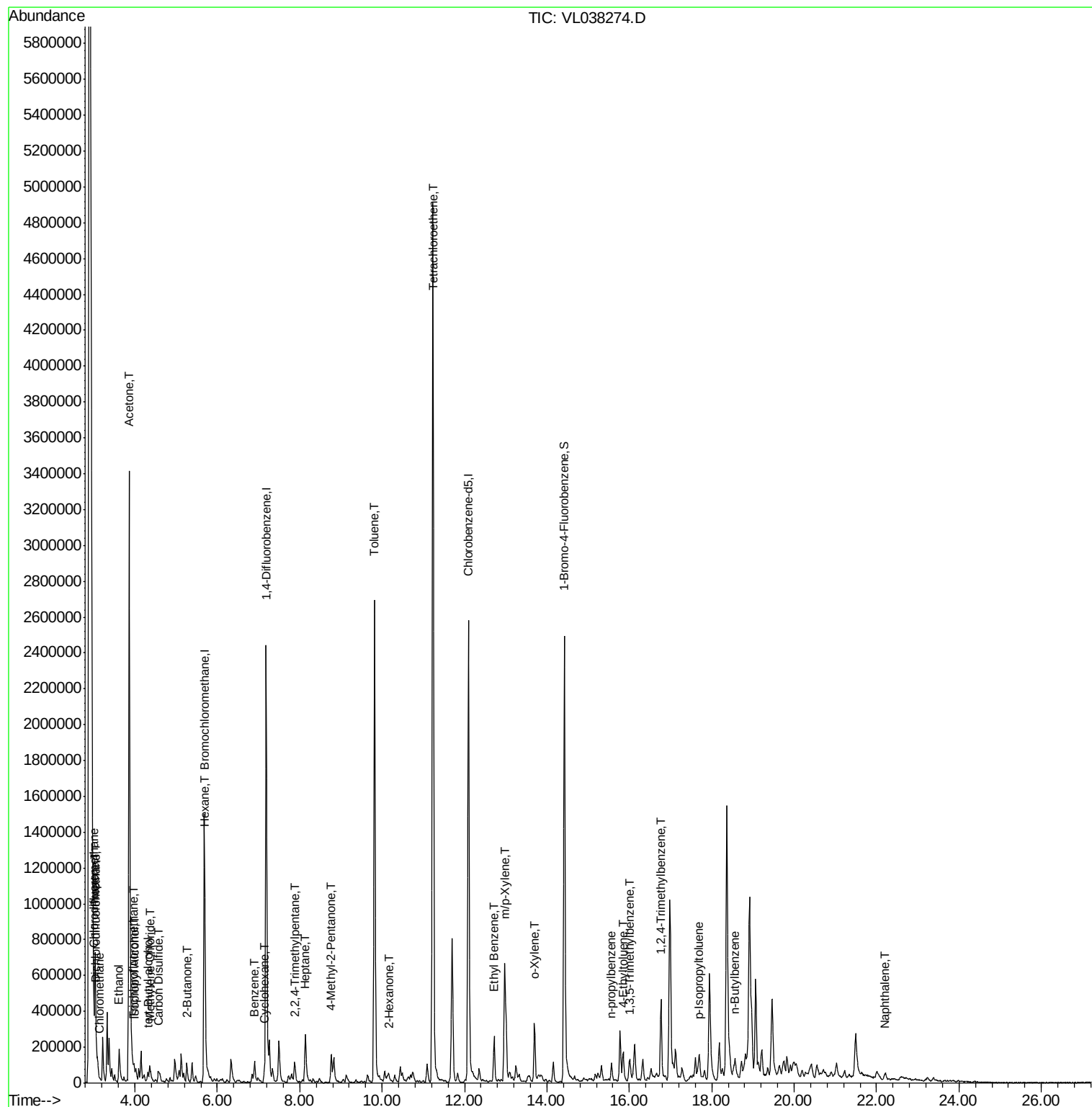
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012422\
Data File : VL038274.D
Acq On : 25 Jan 2022 00:21
Operator : SY/AP
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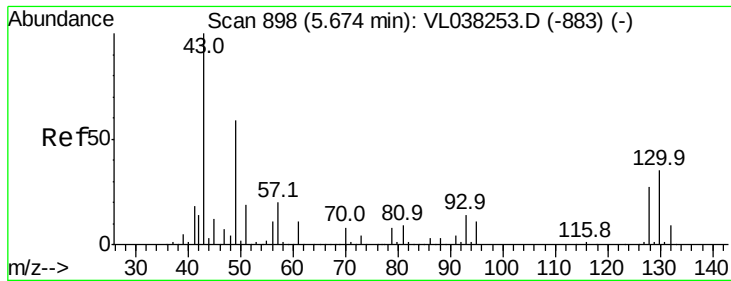
Instrument :
MSVOA_L
ClientSampleId :
SG-2

Manual Integrations
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Quant Time: Jan 25 03:01:17 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422\
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Jan 24 14:12:48 2022
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-2

Acq: 25 Jan 2022 00:21

Tot Ion:

Ion Ratio

49 100

128 47.

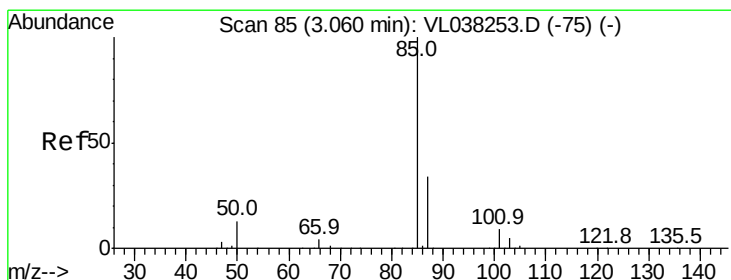
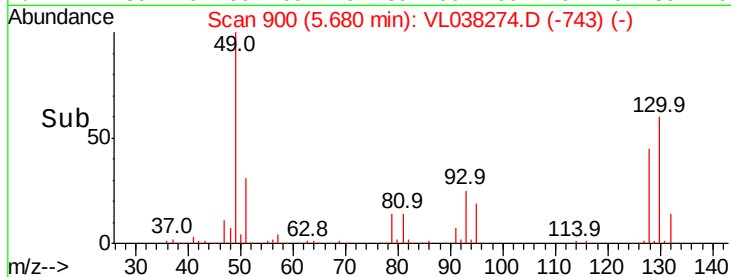
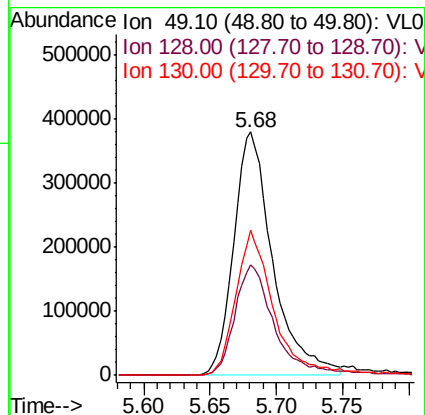
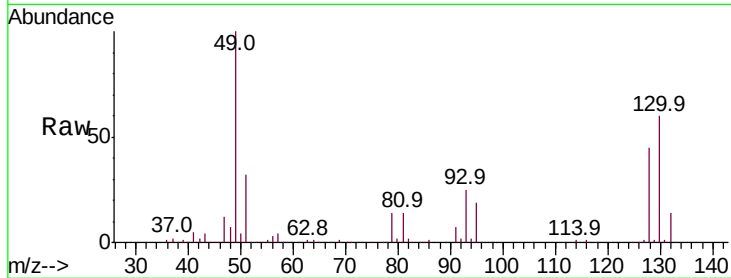
130 59.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#2

Dichlorodifluoromethane

Concen: 0.419 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.00 min

Lab File: VL038274.D

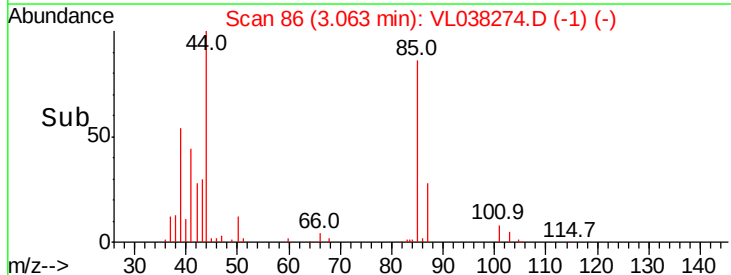
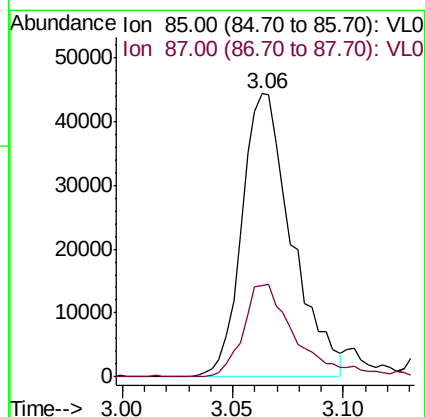
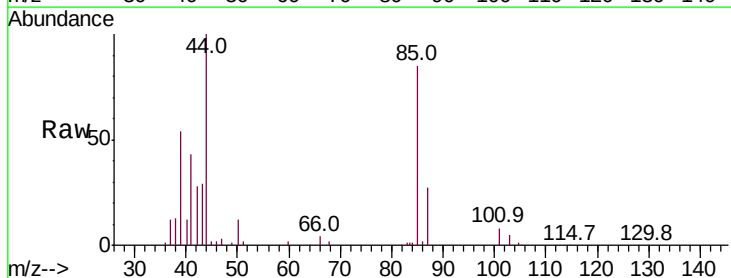
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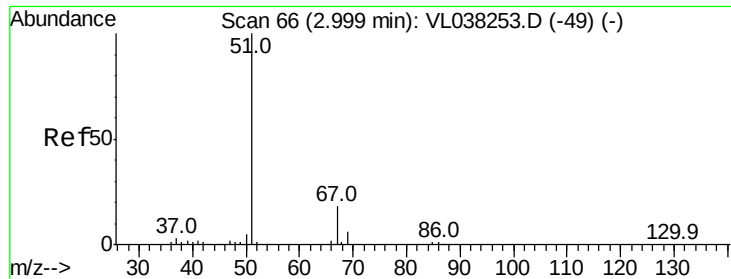
Tgt Ion: 85 Resp: 69634

Ion Ratio Lower Upper

85 100

87 32.1 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.123 ppbv

RT: 3.01 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Jan 2022 00:21 SG-2

Tot Ion:

Ion Ratio

51 100

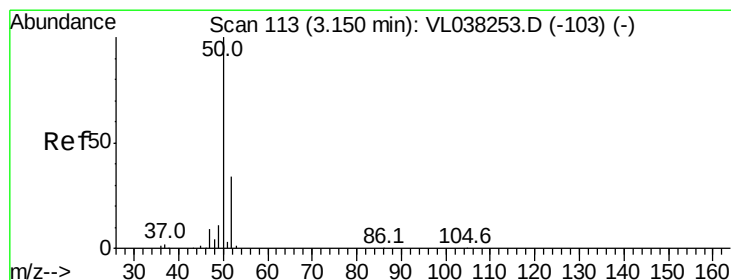
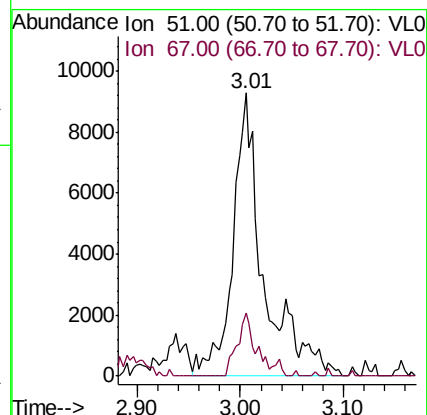
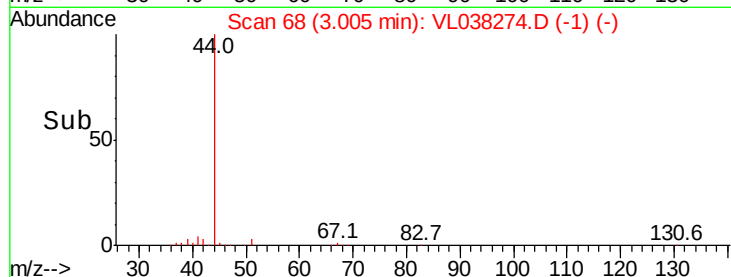
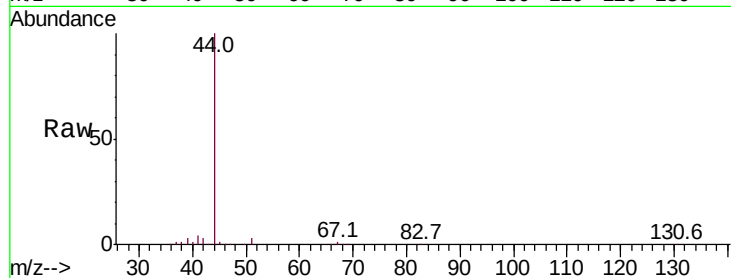
67 14.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#4

Chloromethane

Concen: 0.113 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL038274.D

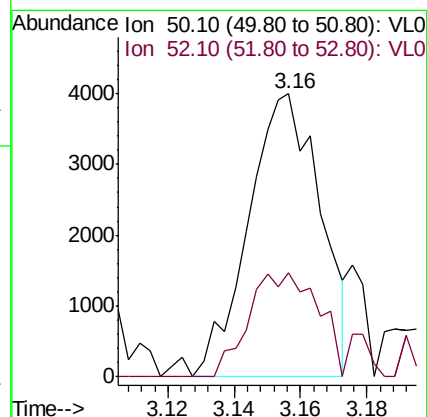
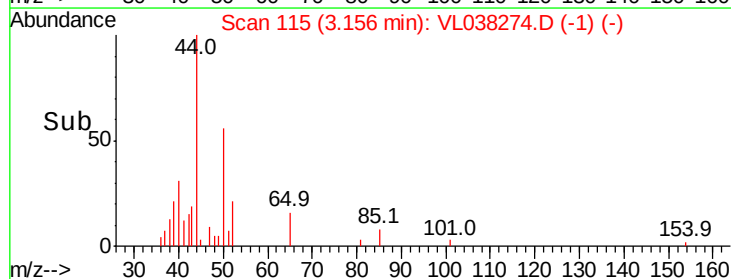
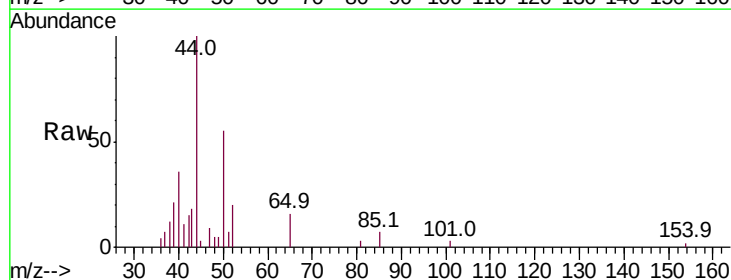
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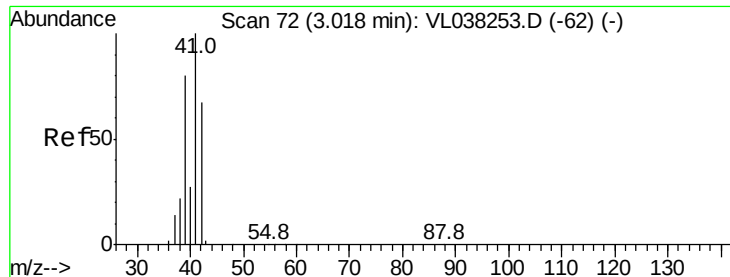
Tgt Ion: 50 Resp: 6031

Ion Ratio Lower Upper

50 100

52 36.9 27.1 40.7





#9

Propene

Concen: 6.436 ppbv

RT: 3.03

Delta R.T.

Lab File:

Acq: 25 Jan 2022 00:21

Instrument :

MSVOA_1

ClientSampleId :

SG-2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/25/2022

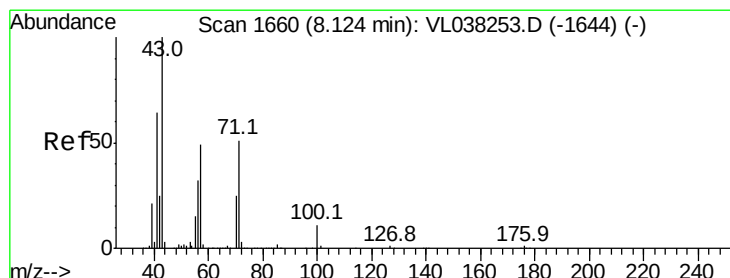
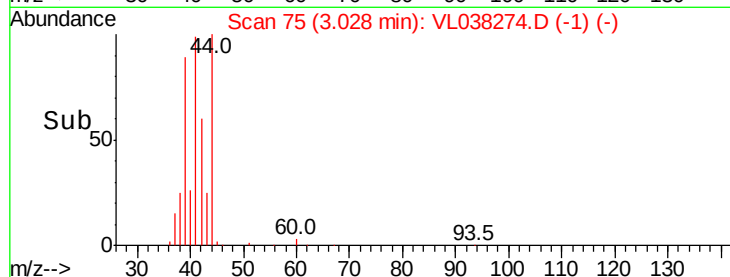
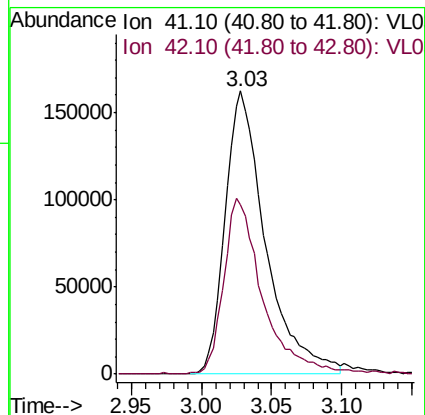
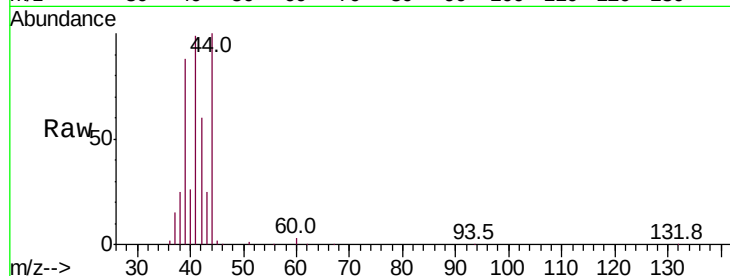
Supervised By :Mahesh Dadoda 01/26/2022

Tot Ion:

Ion Ratio

41 100

42 60.



#10

Heptane

Concen: 0.923 ppbv m

RT: 8.13 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VL038274.D

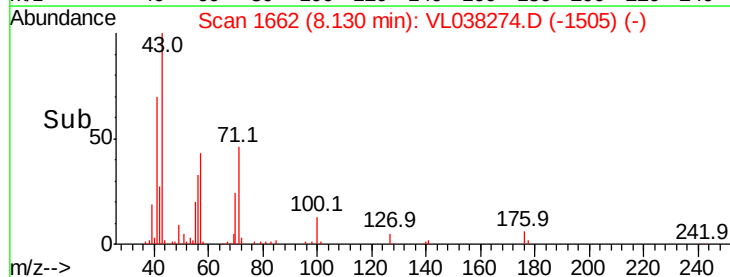
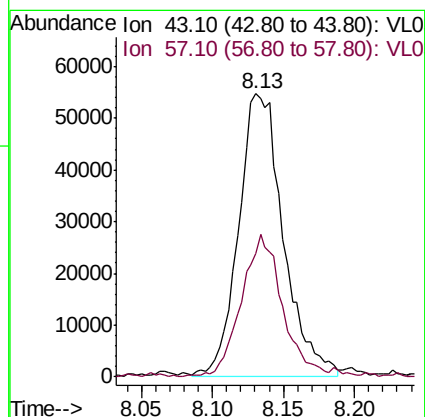
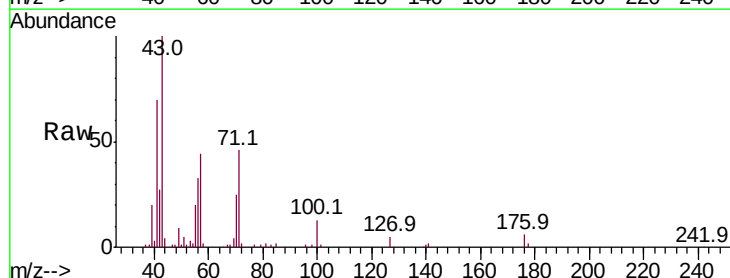
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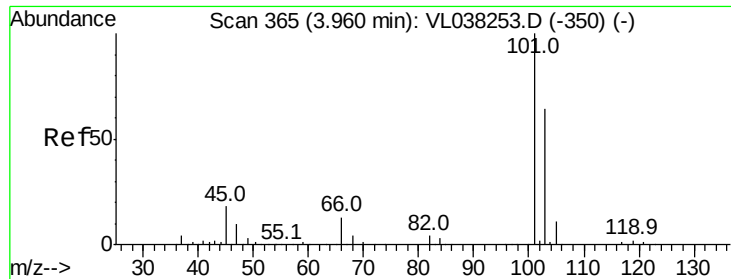
Tgt Ion: 43 Resp: 120050

Ion Ratio Lower Upper

43 100

57 46.2 39.5 59.3



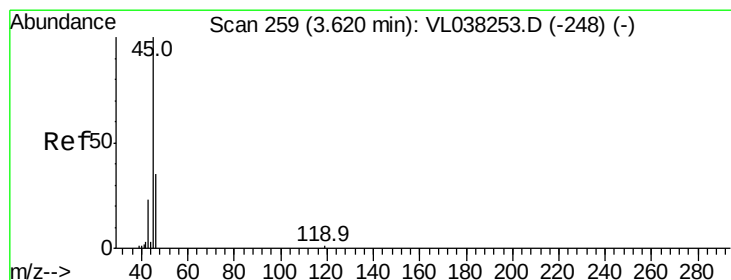
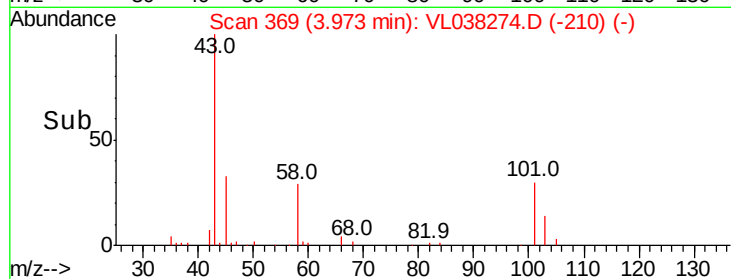
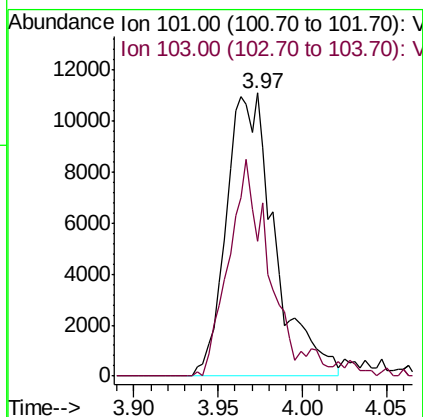
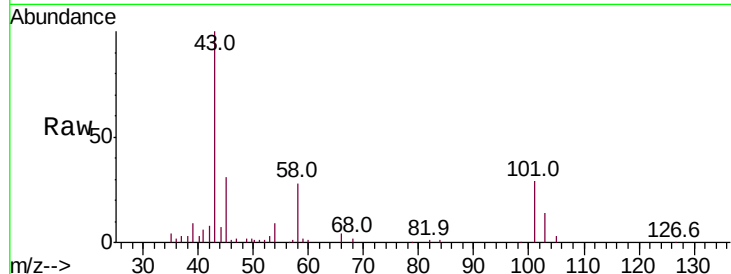


#11
 Trichlorofluoromethane
 Concen: 0.171 ppbv m
 RT: 3.97
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 25 Jan 2022 00:21

Tot Ion:1
 Ion Rati
 101 100
 103 47.

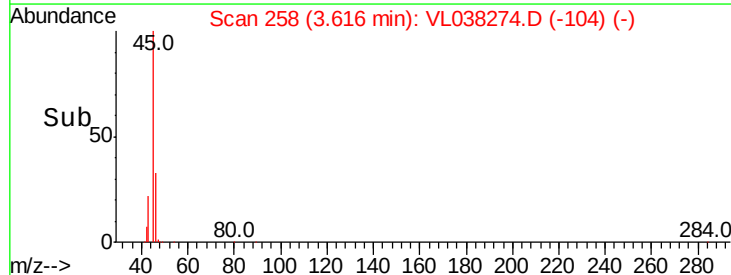
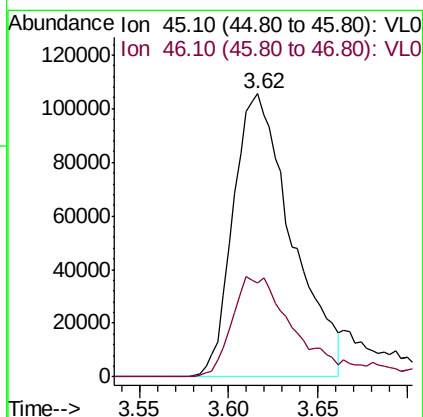
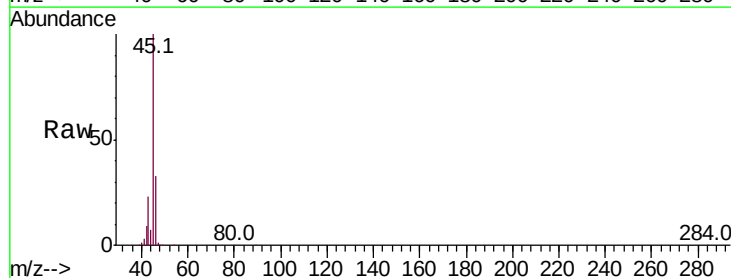
Manual Integrations
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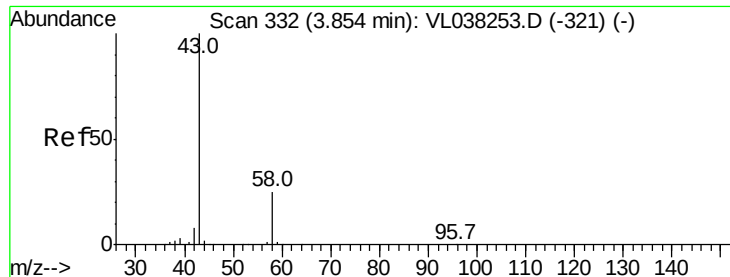
Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#13
 Ethanol
 Concen: 44.593 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T. -0.00 min
 Lab File: VL038274.D
 Acq: 25 Jan 2022 00:21

Tgt Ion: 45 Resp: 242110
 Ion Ratio Lower Upper
 45 100
 46 41.6 15.4 61.6





#15

Acetone

Concen: 67.775 ppbv

RT: 3.86

Delta R.T. MSVOA_L

Lab File:

Acq: 25 Jan 2022 00:21

ClientSampleId :

SG-2

Tot Ion:

Ion Ratio

43 100

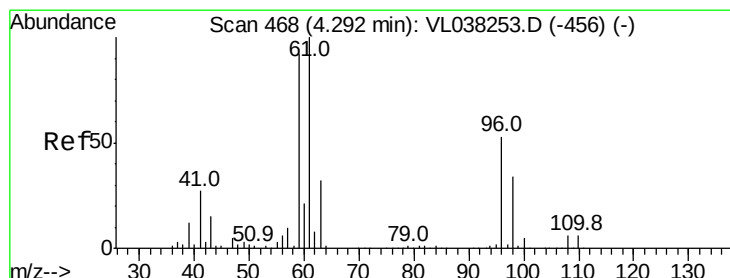
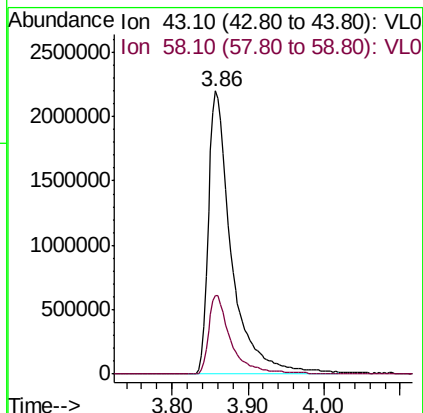
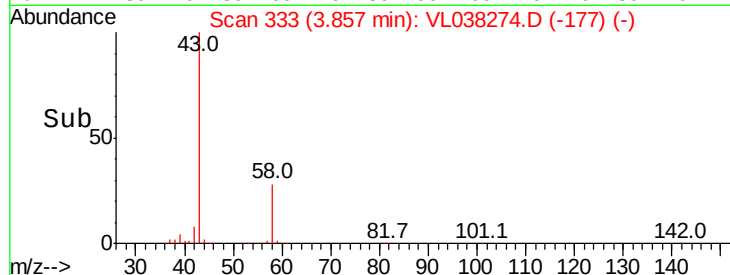
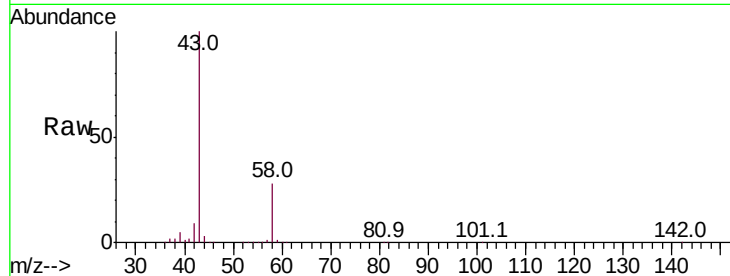
58 27.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#17

tert-Butyl alcohol

Concen: 0.376 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. 0.02 min

Lab File: VL038274.D

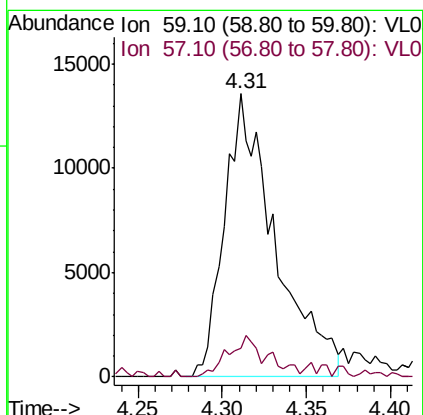
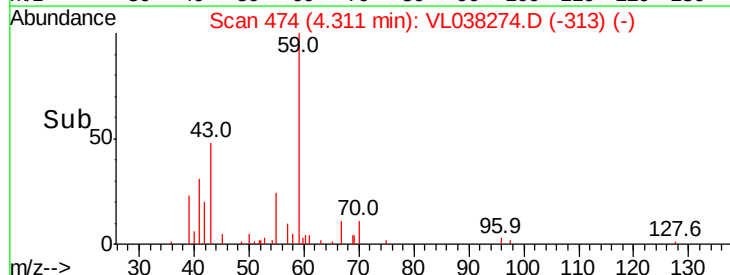
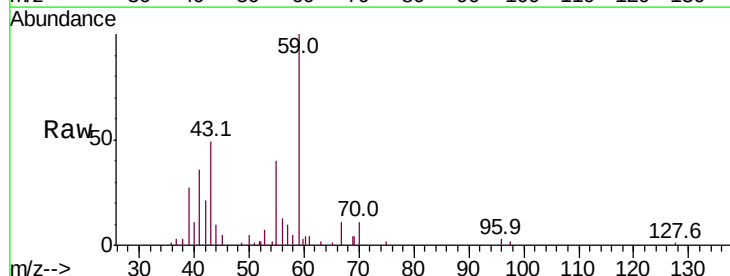
Acq: 25 Jan 2022 00:21

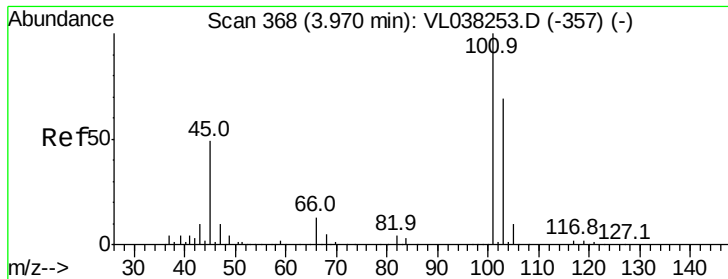
Tgt Ion: 59 Resp: 28363

Ion Ratio Lower Upper

59 100

57 13.0 9.2 13.8



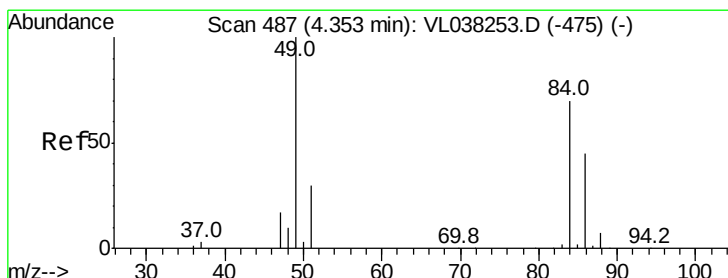
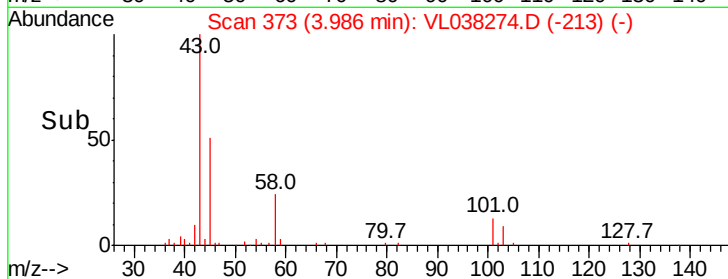
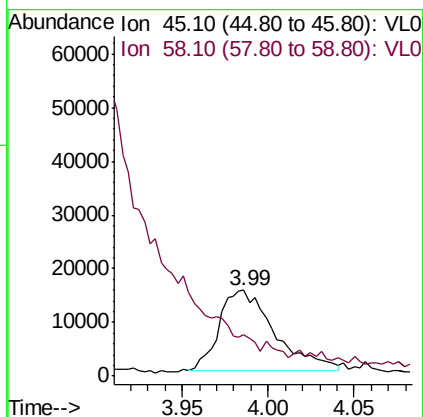
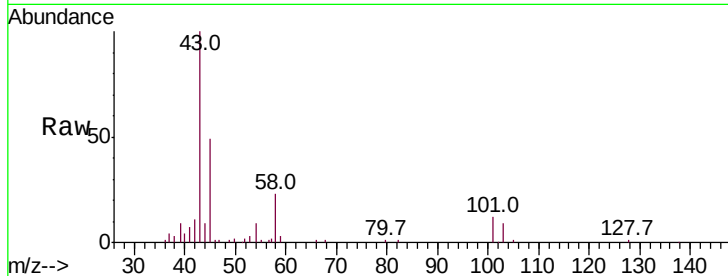


#19
Isopropyl Alcohol
Concen: 0.781 ppbv
RT: 3.99
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 25 Jan 2022 00:21

Tot Ion:
Ion Ratio
45 100
58 0.

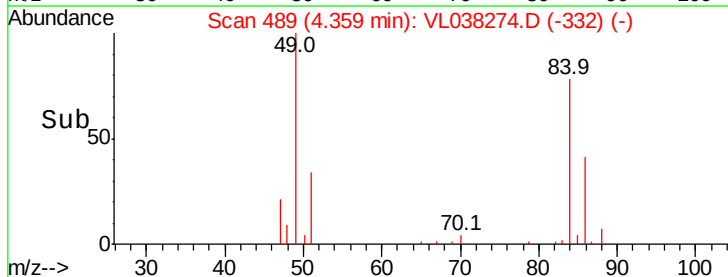
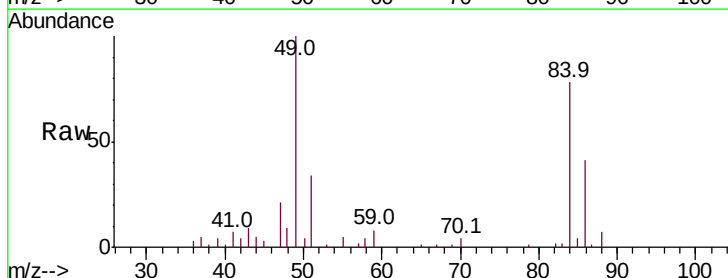
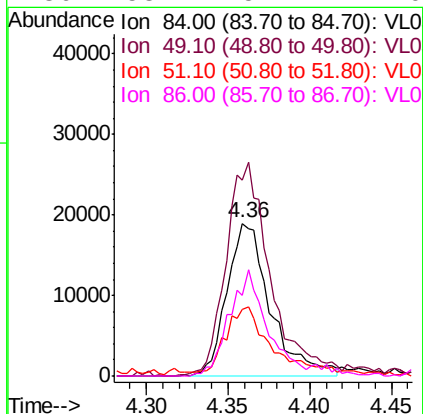
Manual Integrations
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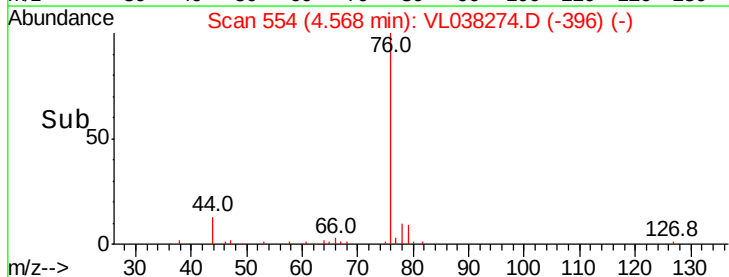
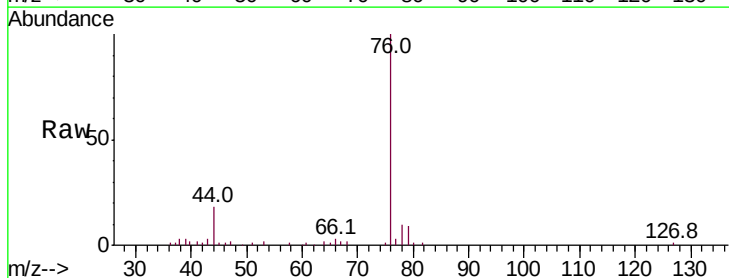
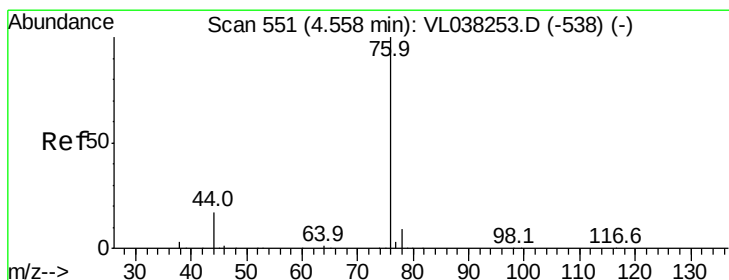
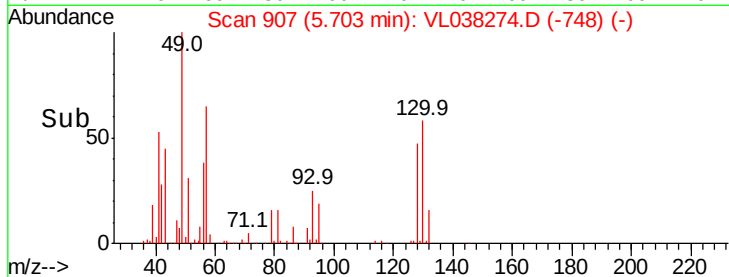
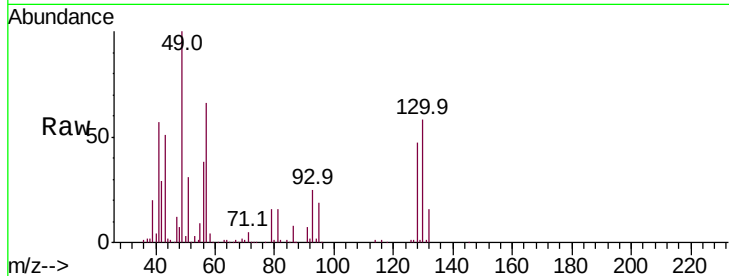
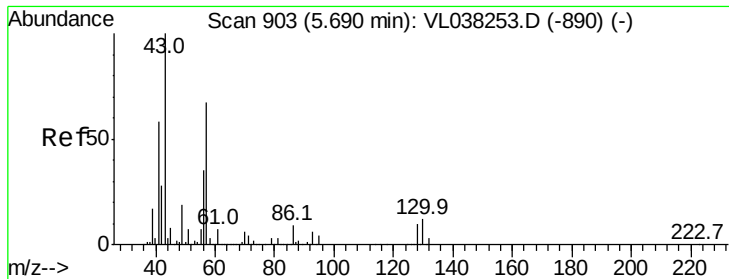
Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022



#20
Methylene Chloride
Concen: 0.871 ppbv m
RT: 4.36 min Scan# 489
Delta R.T. 0.01 min
Lab File: VL038274.D
Acq: 25 Jan 2022 00:21

Tgt Ion: 84 Resp: 34847
Ion Ratio Lower Upper
84 100
49 128.5 115.0 172.6
51 43.6 35.0 52.6
86 53.1 51.4 77.0





#26

Hexane

Concen: 1.649 ppbv

RT: 5.70

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Jan 2022 00:21

Tot Ion:

Ion Ratio

57 100

41 106.

43 78.

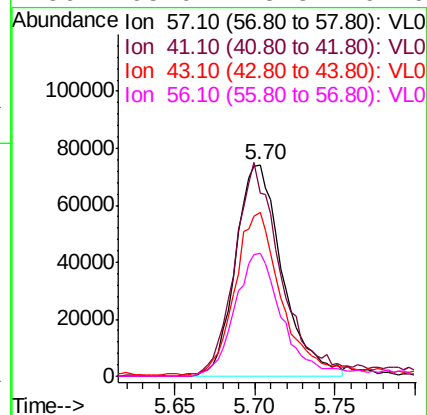
56 63.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#27

Carbon Disulfide

Concen: 0.651 ppbv

RT: 4.57 min Scan# 554

Delta R.T. 0.01 min

Lab File: VL038274.D

Acq: 25 Jan 2022 00:21

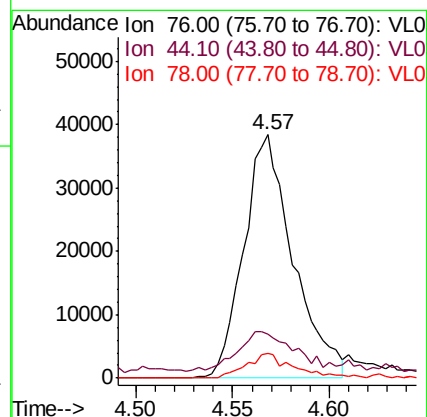
Tgt Ion: 76 Resp: 68260

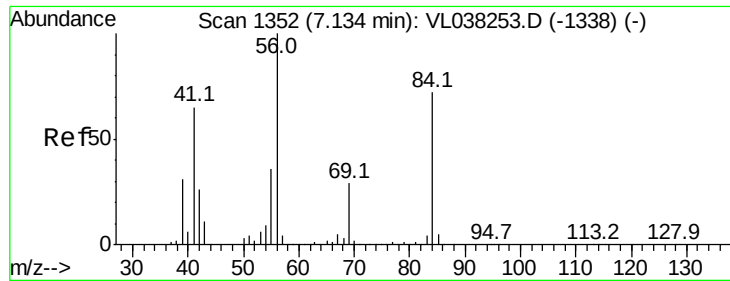
Ion Ratio Lower Upper

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44 21.8 14.8 22.2

78 10.3 7.9 11.9



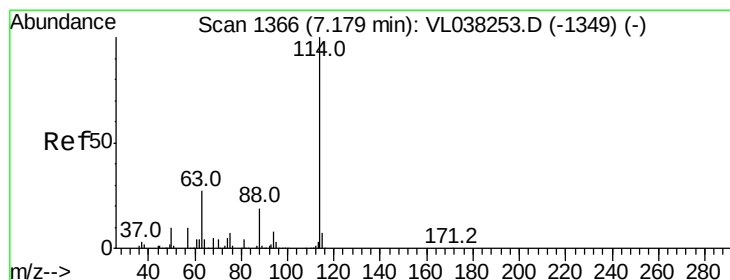
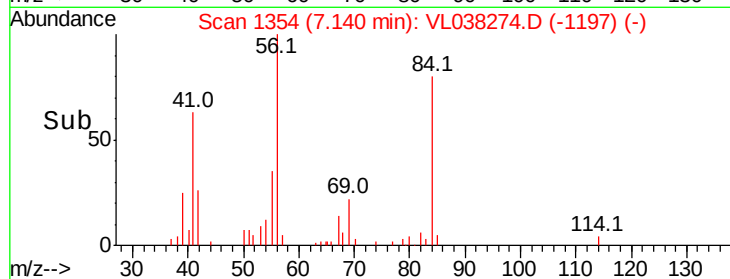
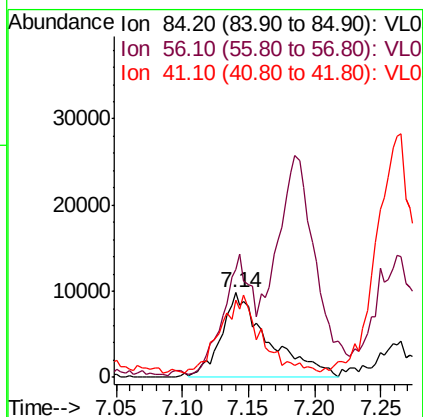
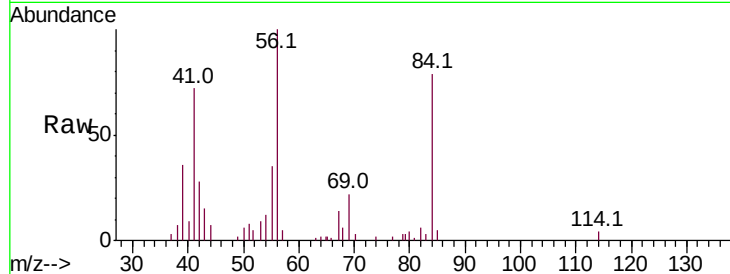


#30
Cyclohexane
Concen: 0.313 ppbv m
RT: 7.14
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 25 Jan 2022 00:21

Tot Ion:
Ion Ratio
84 100
56 97.
41 0.

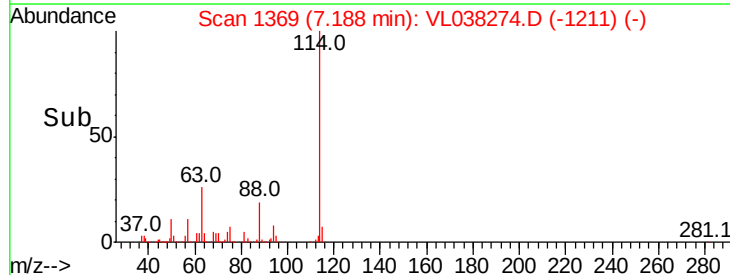
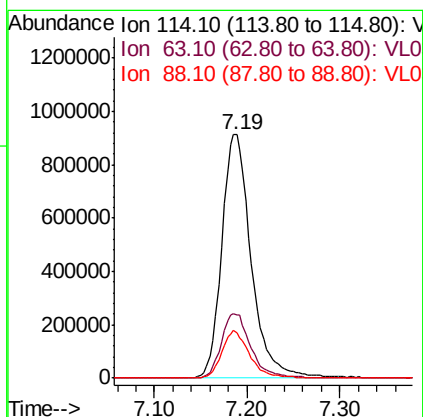
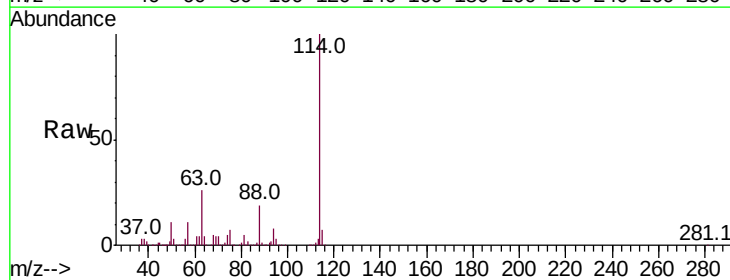
Manual Integrations
APPROVED

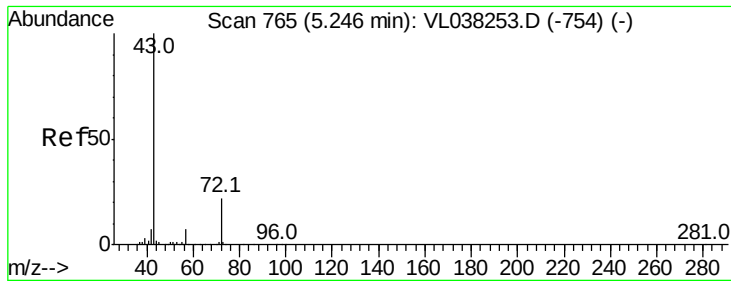
Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VL038274.D
Acq: 25 Jan 2022 00:21

Tgt Ion:114 Resp: 2006410
Ion Ratio Lower Upper
114 100
63 26.8 22.0 33.0
88 18.7 15.0 22.6



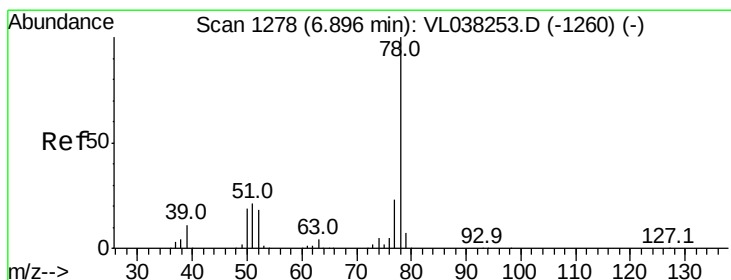
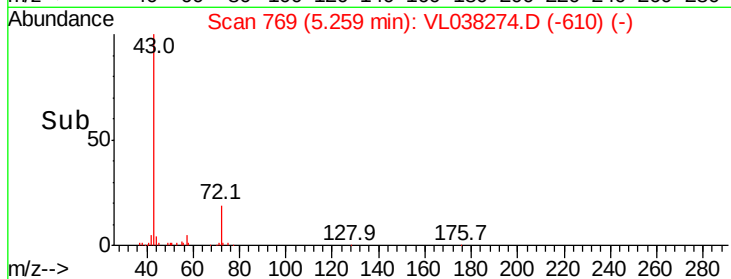
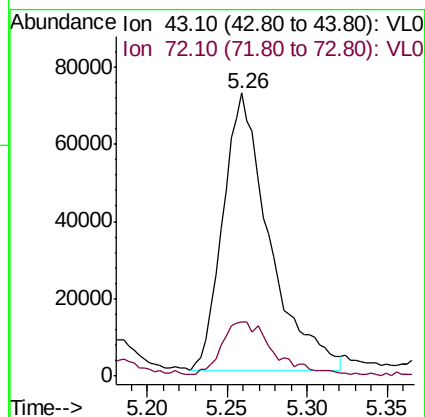
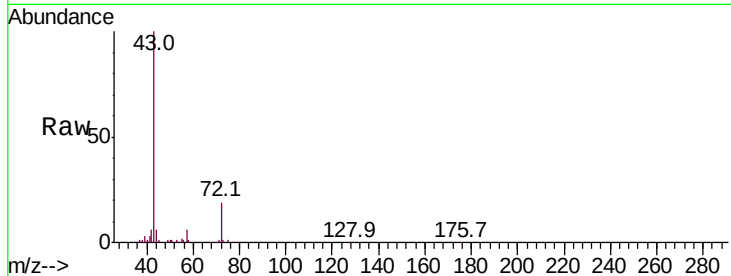


#34
 2-Butanone
 Concen: 2.182 ppbv
 RT: 5.26
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Jan 2022 00:21

Tot Ion:
 Ion Ratio
 43 100
 72 23.

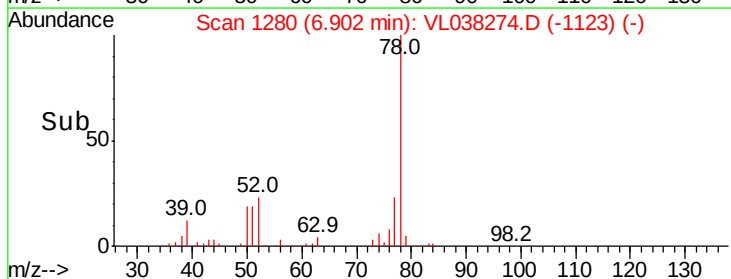
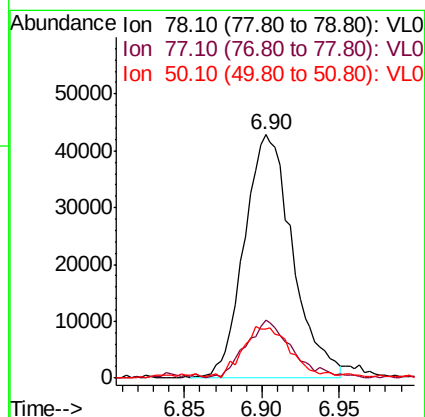
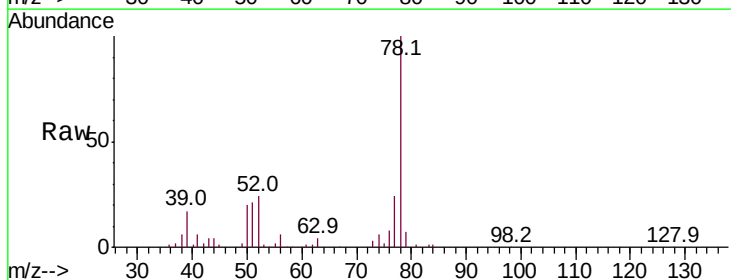
Manual Integrations
 APPROVED

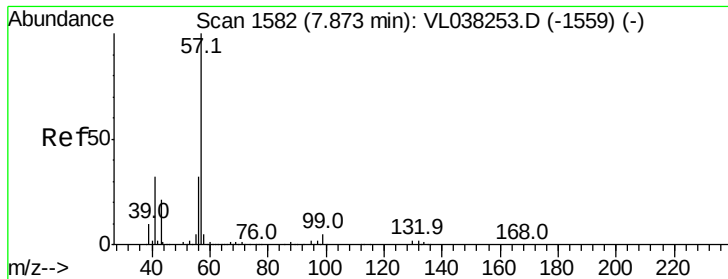
Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#36
 Benzene
 Concen: 0.524 ppbv
 RT: 6.90 min Scan# 1280
 Delta R.T. 0.01 min
 Lab File: VL038274.D
 Acq: 25 Jan 2022 00:21

Tgt Ion: 78 Resp: 93029
 Ion Ratio Lower Upper
 78 100
 77 23.0 18.2 27.2
 50 19.0 15.1 22.7



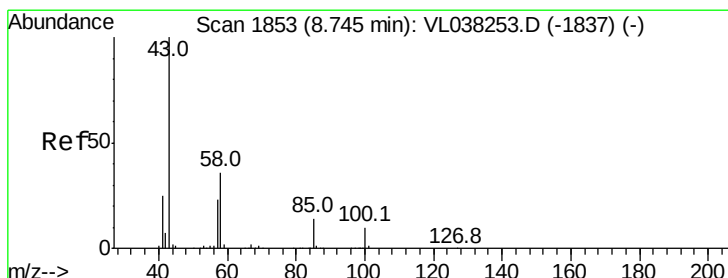
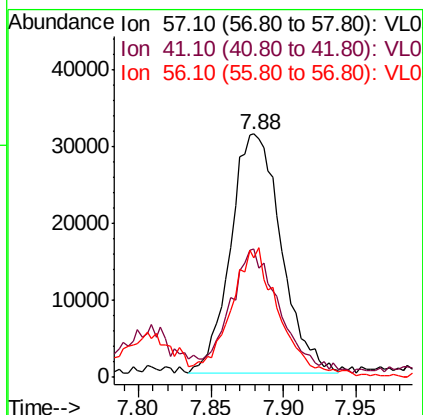
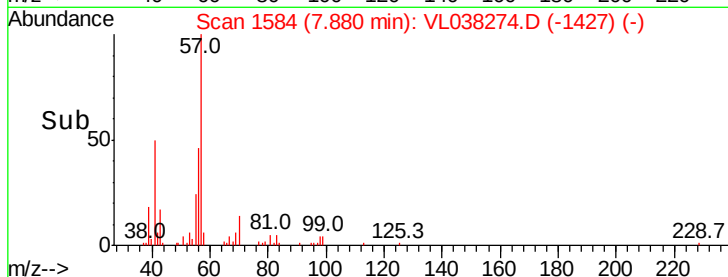
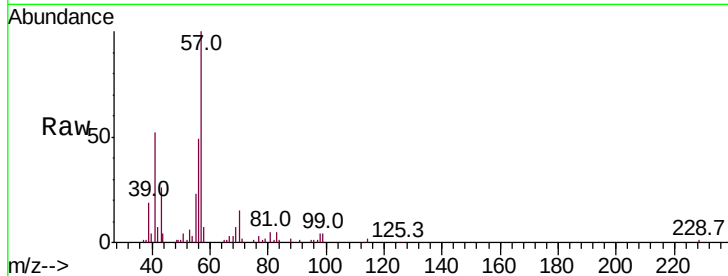


#44
 2,2,4-Trimethylpentane
 Concen: 0.242 ppbv
 RT: 7.88
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Jan 2022 00:21

Tot Ion:
 Ion Ratio
 57 100
 41 47.
 56 53.

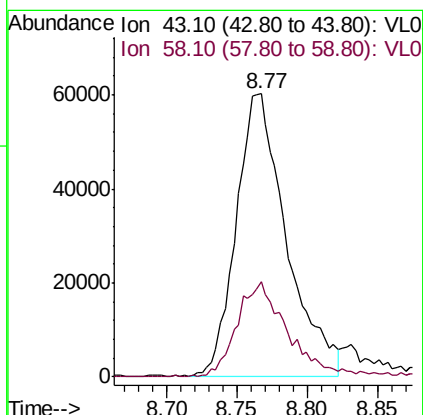
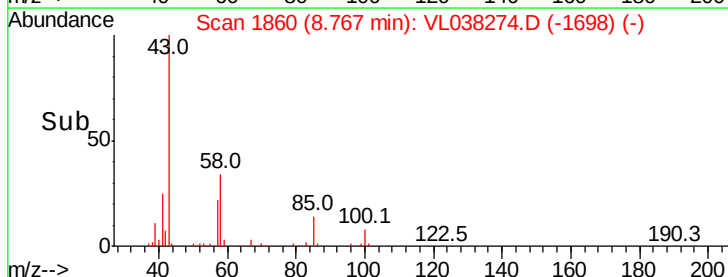
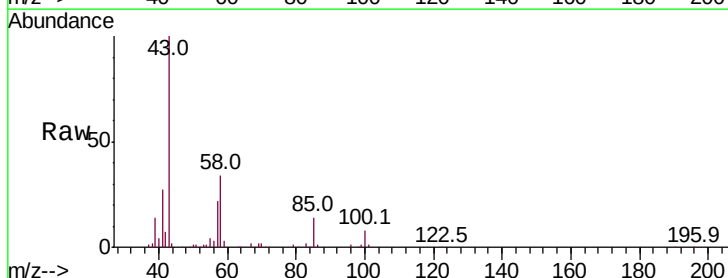
Manual Integrations
 APPROVED

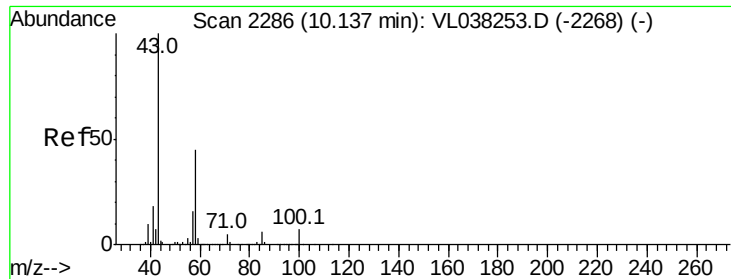
Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#50
 4-Methyl-2-Pentanone
 Concen: 1.288 ppbv
 RT: 8.77 min Scan# 1860
 Delta R.T. 0.02 min
 Lab File: VL038274.D
 Acq: 25 Jan 2022 00:21

Tgt Ion: 43 Resp: 150780
 Ion Ratio Lower Upper
 43 100
 58 34.2 28.2 42.4





#51

2-Hexanone

Concen: 0.991 ppbv m

RT: 10.16

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Jan 2022 00:21

Tot Ion:

Ion Ratio

43 100

58 41.

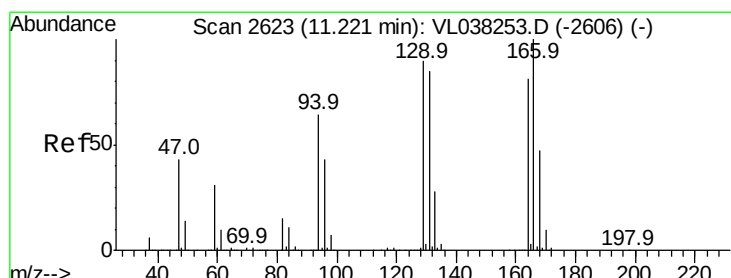
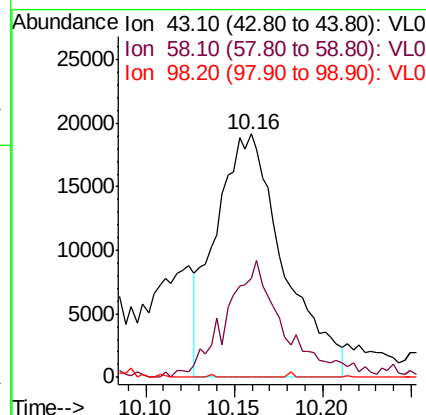
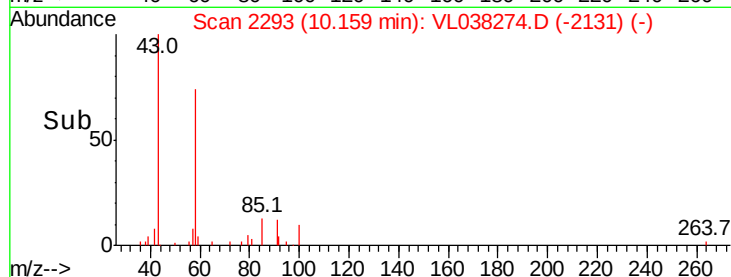
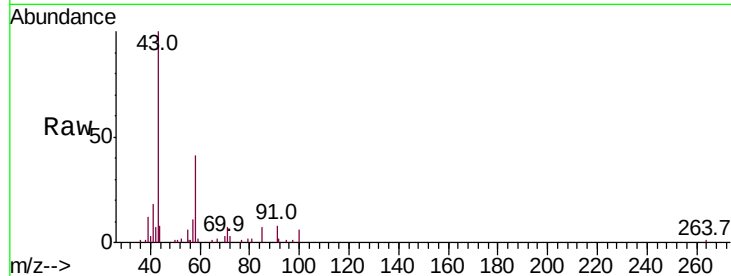
98 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#52

Tetrachloroethene

Concen: 21.399 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. 0.02 min

Lab File: VL038274.D

Acq: 25 Jan 2022 00:21

Tgt Ion:164 Resp: 1308888

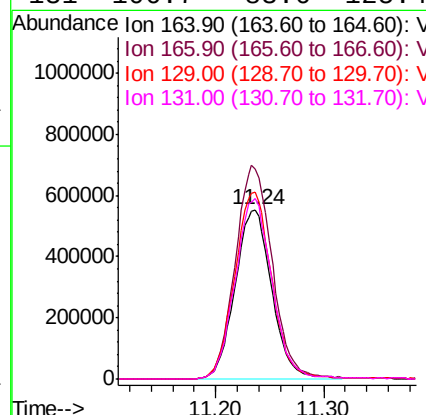
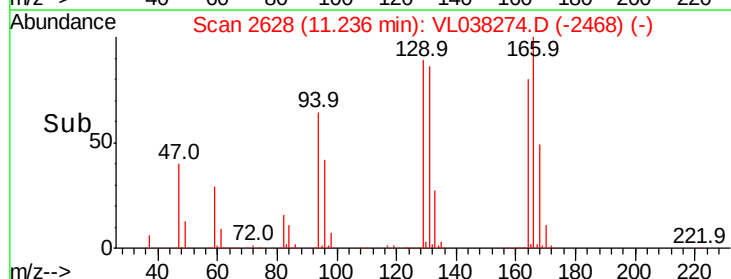
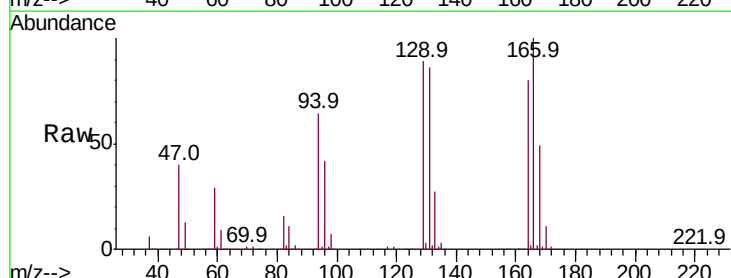
Ion Ratio Lower Upper

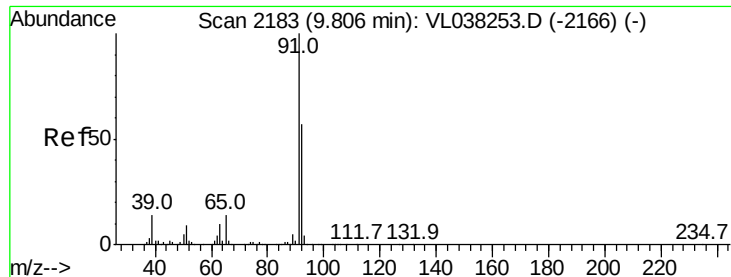
164 100

166 124.2 98.8 148.2

129 110.8 89.2 133.8

131 106.7 83.6 125.4





#53

Toluene

Concen: 11.931 ppbv

RT: 9.82 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 25 Jan 2022 00:21 SG-2

Tot Ion:

Ion Ratio

91 100

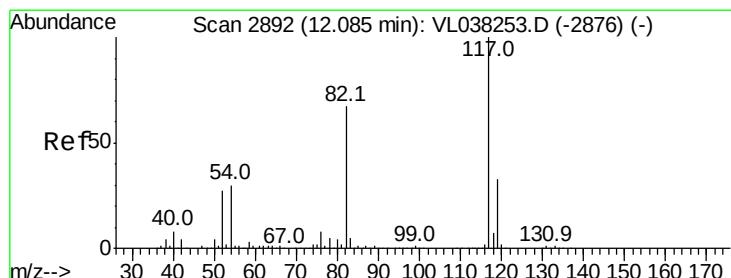
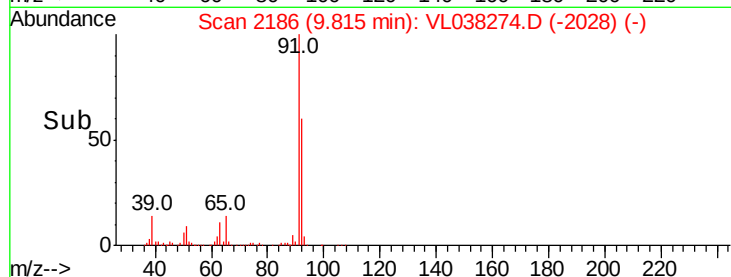
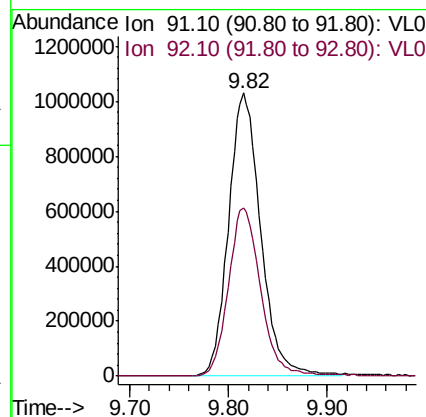
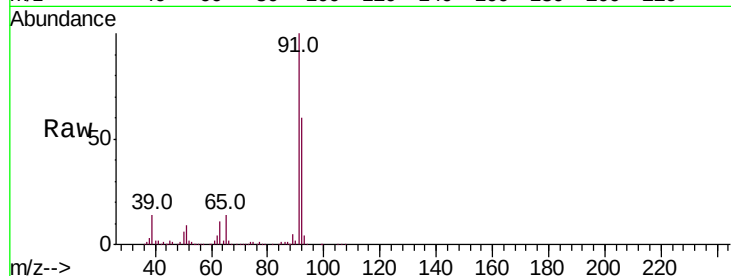
92 60.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2895

Delta R.T. 0.01 min

Lab File: VL038274.D

Acq: 25 Jan 2022 00:21

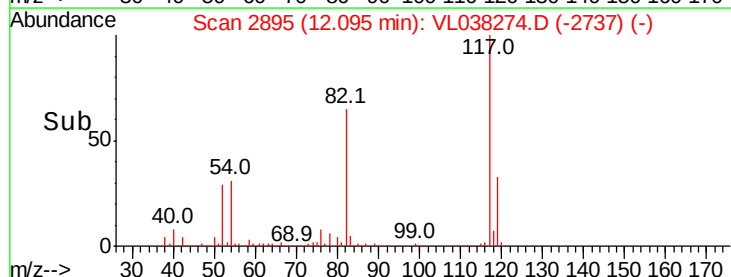
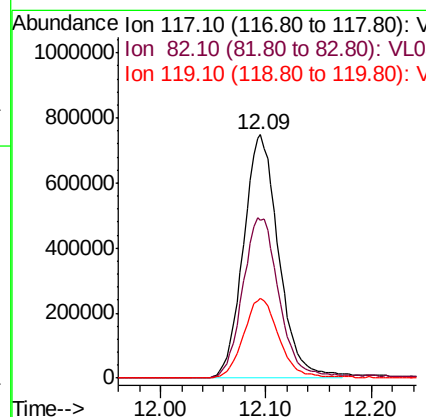
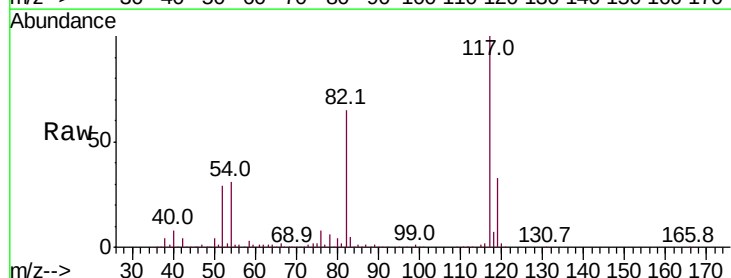
Tgt Ion:117 Resp: 1742546

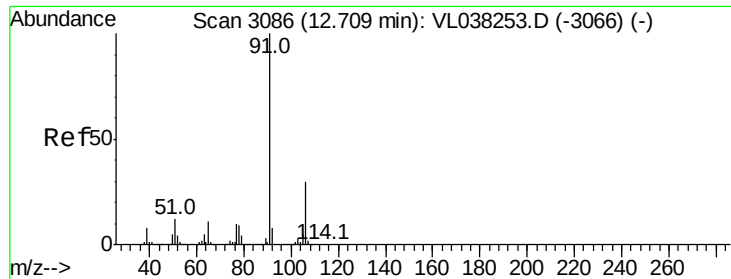
Ion Ratio Lower Upper

117 100

82 69.6 54.4 81.6

119 33.1 45.9 68.9#



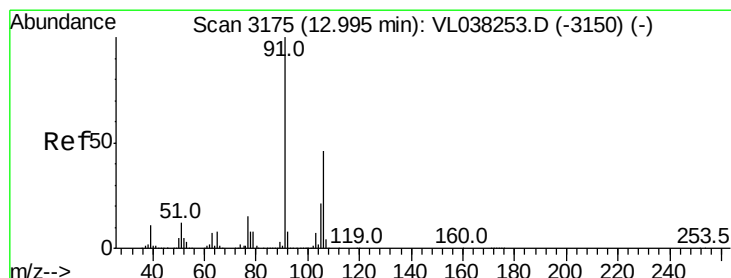
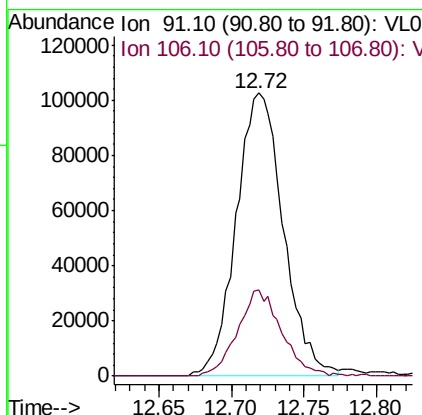
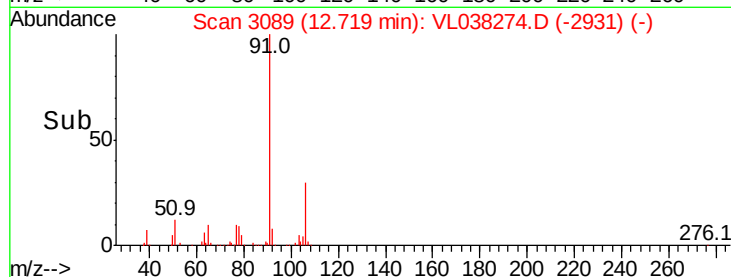
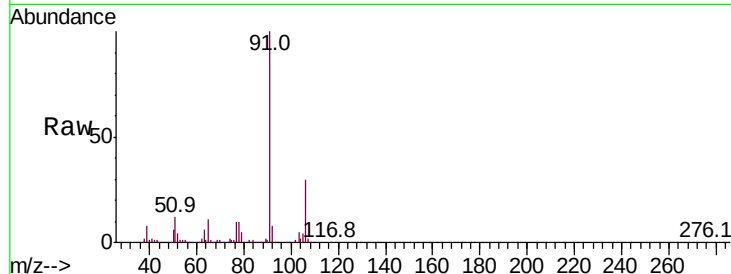


#58
Ethyl Benzene
Concen: 0.901 ppbv
RT: 12.72
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Jan 2022 00:21

Tot Ion:
Ion Ratio
91 100
106 30.

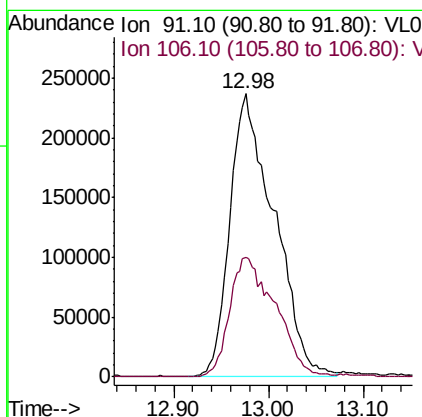
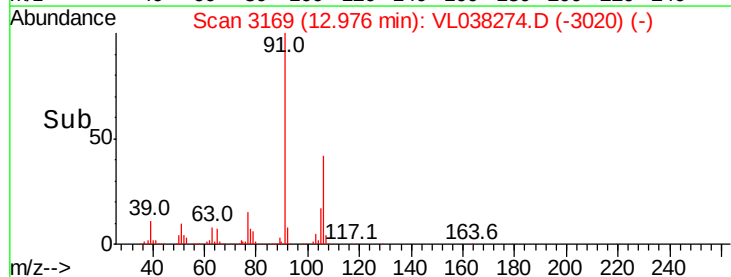
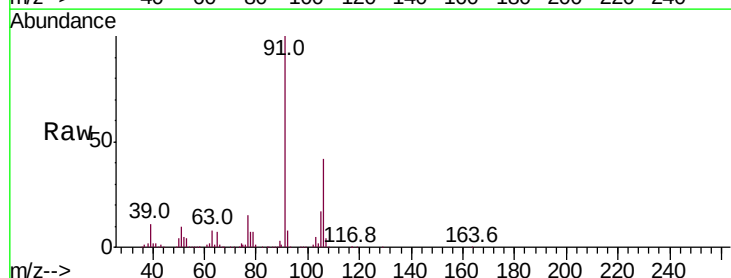
Manual Integrations
APPROVED

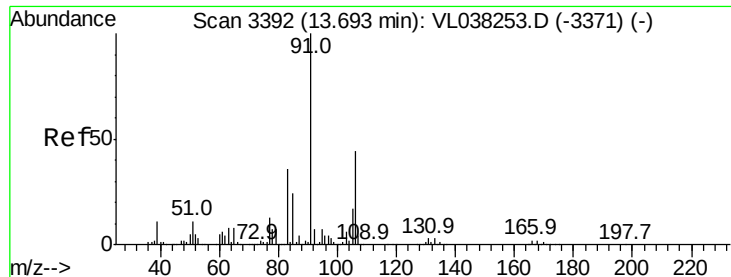
Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022



#59
m/p-Xylene
Concen: 3.511 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.02 min
Lab File: VL038274.D
Acq: 25 Jan 2022 00:21

Tgt Ion: 91 Resp: 767101
Ion Ratio Lower Upper
91 100
106 43.7 34.8 52.2





#60

o-Xylene

Concen: 1.296 ppbv

RT: 13.70

Delta R.T.

Lab File:

Acq: 25 Jan 2022 00:21

Instrument :

MSVOA_1

ClientSampleId :

SG-2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

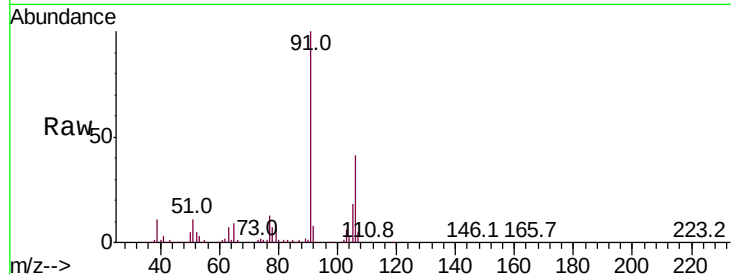
Supervised By :Mahesh Dadoda 01/26/2022

Tot Ion:

Ion Ratio

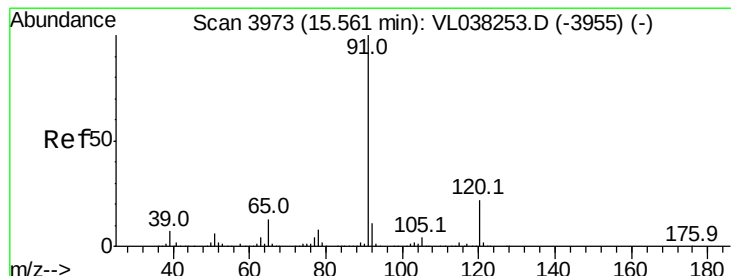
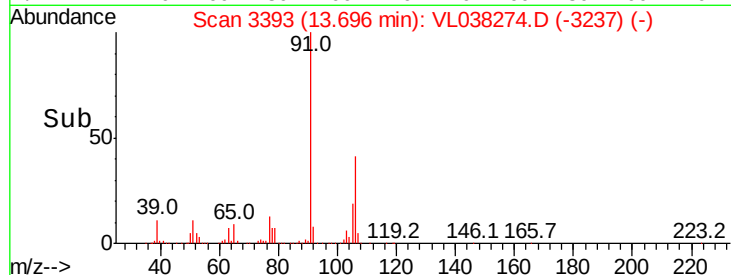
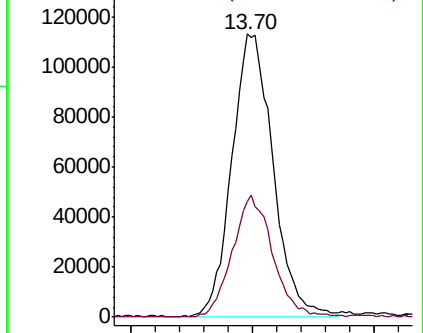
91 100

106 42.



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#64

n-propylbenzene

Concen: 0.301 ppbv m

RT: 15.57 min Scan# 3975

Delta R.T. 0.01 min

Lab File: VL038274.D

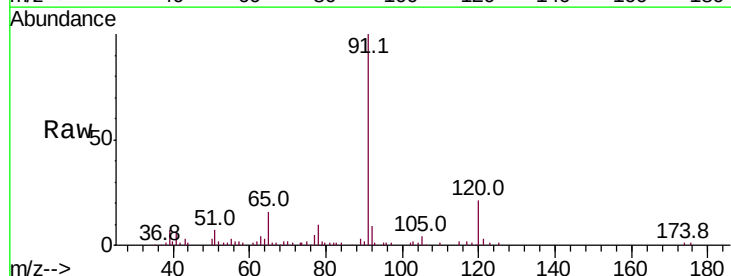
Acq: 25 Jan 2022 00:21

Tgt Ion:120 Resp: 19605

Ion Ratio Lower Upper

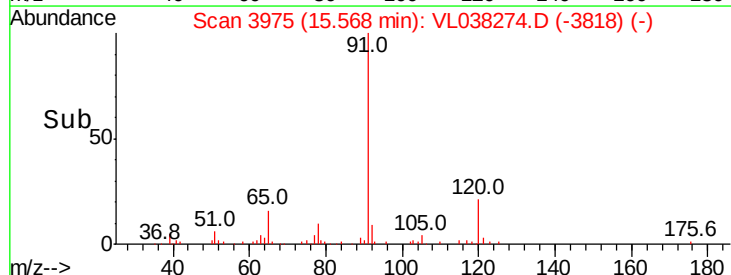
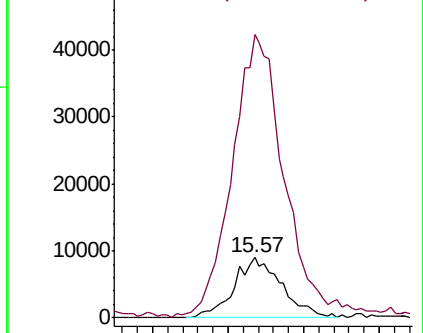
120 100

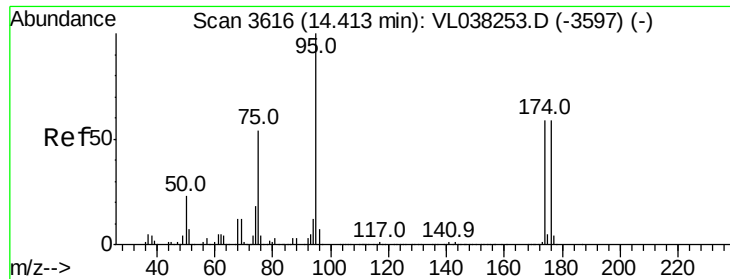
91 531.1 390.8 586.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



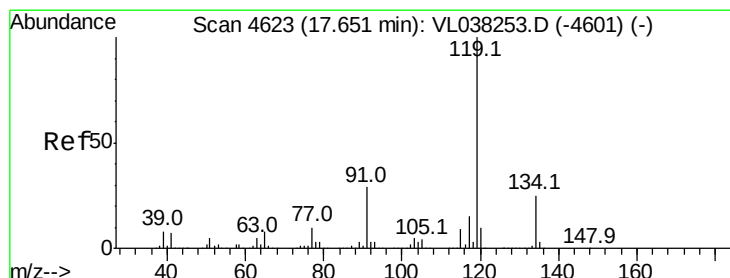
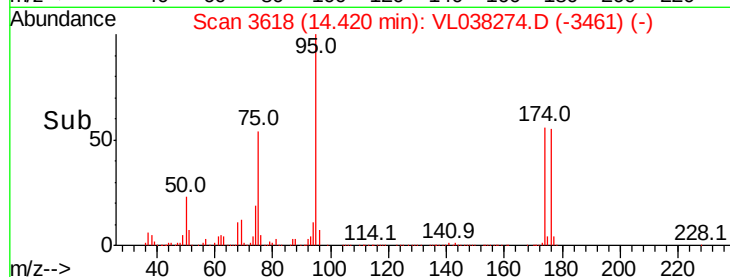
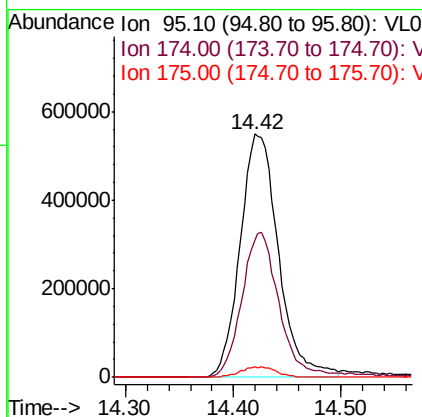
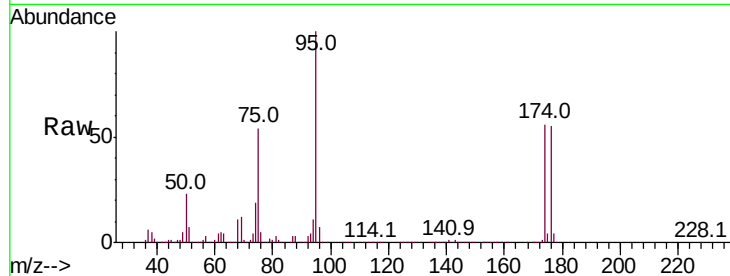


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.266 ppbv
 RT: 14.42 min
 Delta R.T.: 0.01 min
 Lab File: VL038253.D
 Acq: 25 Jan 2022 00:21

Tot Ion:
 Ion Ratio
 95 100
 174 60.0
 175 4.0

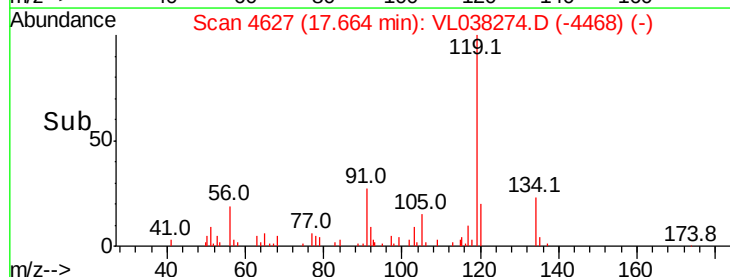
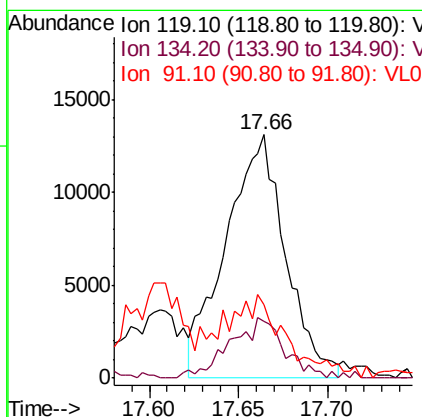
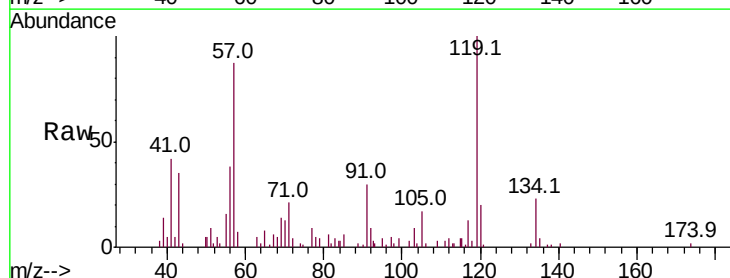
Manual Integrations
 APPROVED

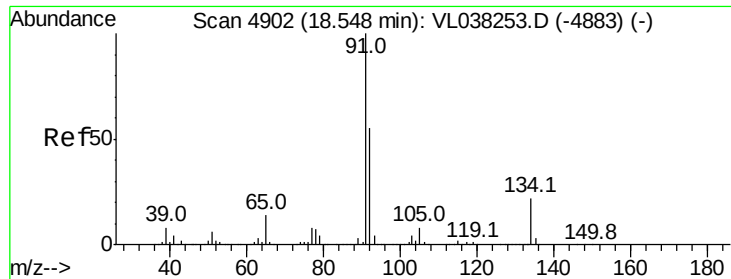
Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#69
 p-Isopropyltoluene
 Concen: 0.129 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T.: 0.01 min
 Lab File: VL038274.D
 Acq: 25 Jan 2022 00:21

Tgt Ion:119 Resp: 30621
 Ion Ratio Lower Upper
 119 100
 134 22.9 20.2 30.2
 91 32.0 23.2 34.8



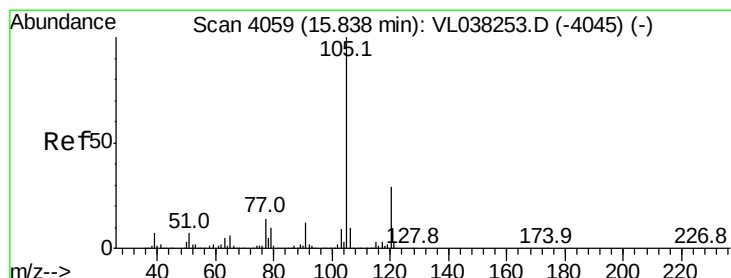
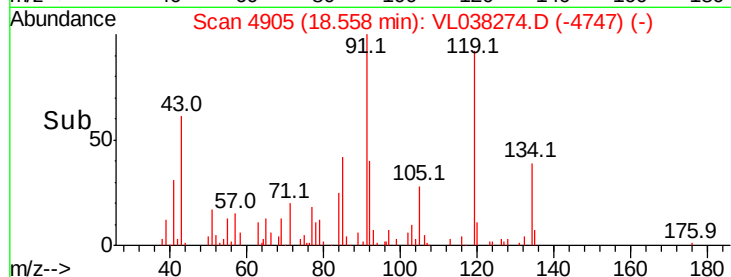
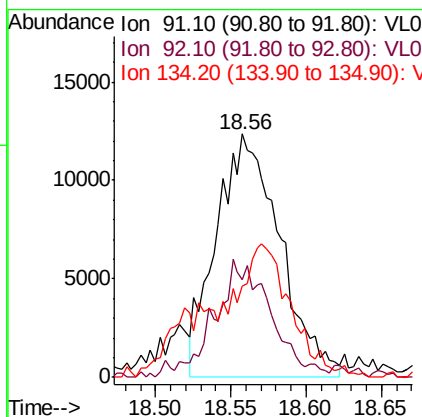
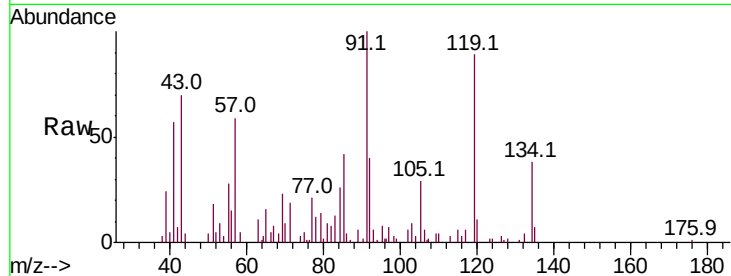


#70
n-Butylbenzene
Concen: 0.156 ppbv m
RT: 18.56
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 25 Jan 2022 00:21

Tot Ion:
Ion Ratio
91 100
92 45.
134 68.

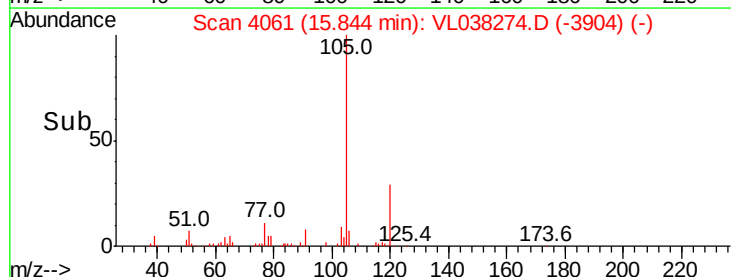
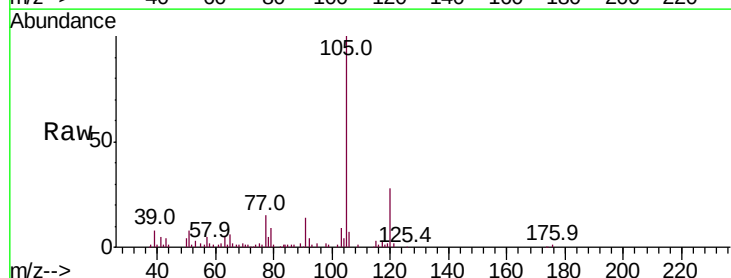
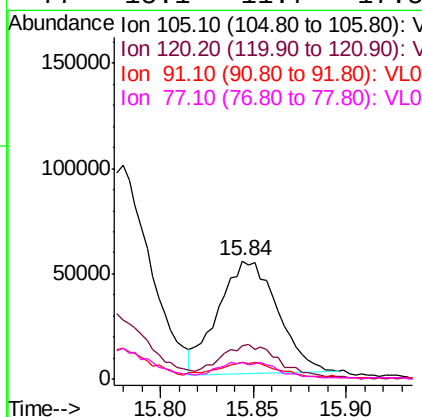
Manual Integrations
APPROVED

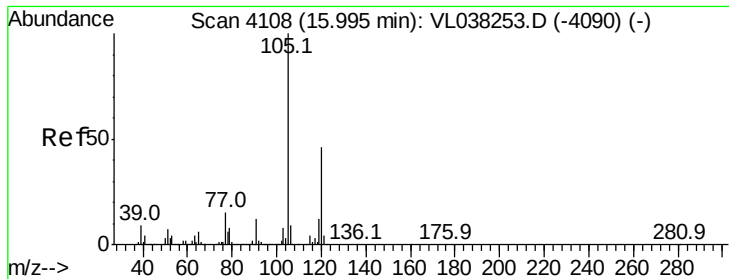
Reviewed By :Semsettin Yesilyurt 01/25/2022
Supervised By :Mahesh Dadoda 01/26/2022



#72
4-Ethyltoluene
Concen: 0.558 ppbv
RT: 15.84 min Scan# 4061
Delta R.T. 0.01 min
Lab File: VL038274.D
Acq: 25 Jan 2022 00:21

Tgt Ion:105 Resp: 118639
Ion Ratio Lower Upper
105 100
120 34.0 23.8 35.8
91 15.5 10.2 15.4#
77 15.1 11.7 17.5



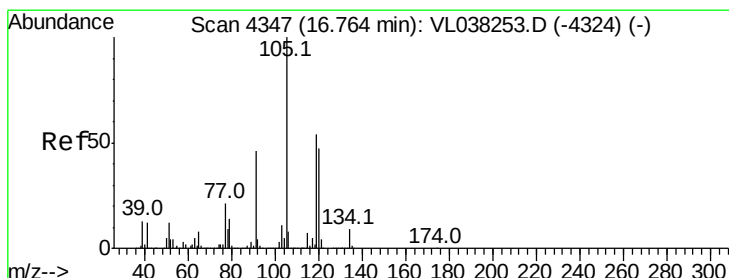
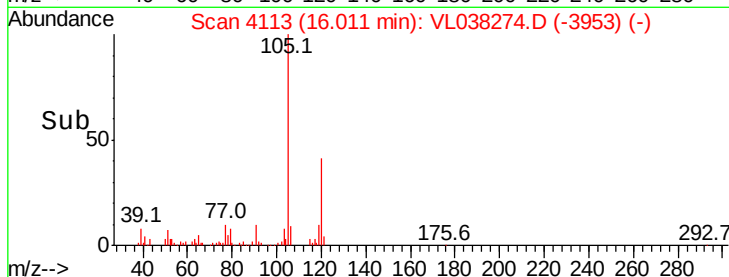
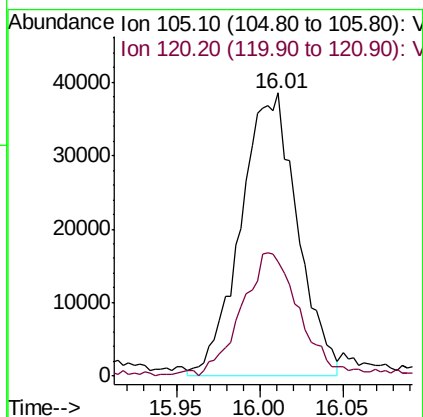
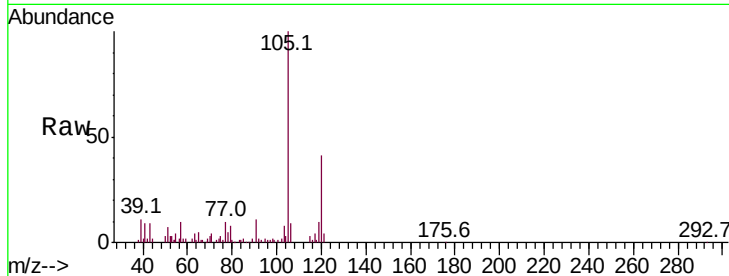


#73
 1,3,5-Trimethylbenzene
 Concen: 0.477 ppbv m
 RT: 16.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Jan 2022 00:21

Tot Ion:1
 Ion Rati
 105 100
 120 40.

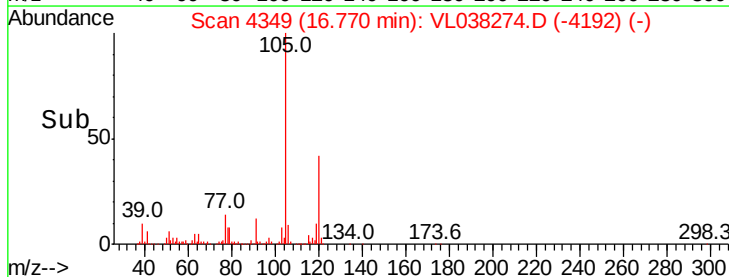
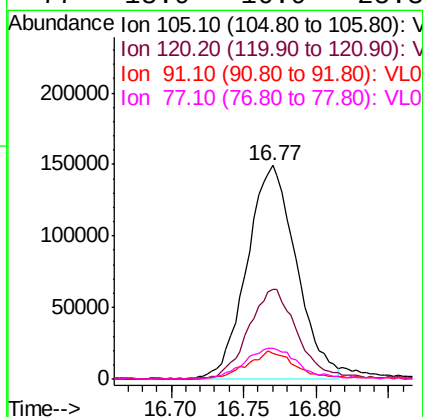
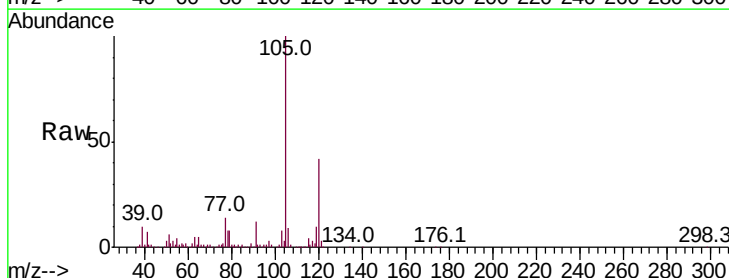
Manual Integrations
 APPROVED

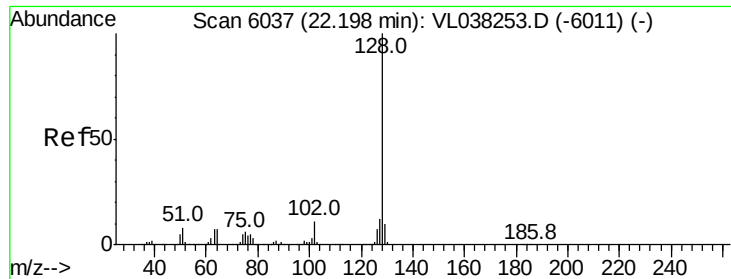
Reviewed By :Semsettin Yesilyurt 01/25/2022
 Supervised By :Mahesh Dadoda 01/26/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 1.746 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. 0.01 min
 Lab File: VL038274.D
 Acq: 25 Jan 2022 00:21

Tgt Ion:105 Resp: 351617
 Ion Ratio Lower Upper
 105 100
 120 42.0 37.2 55.8
 91 11.6 36.6 55.0#
 77 13.9 16.9 25.3#





#79

Naphthalene

Concen: 0.118 ppbv m

RT: 22.22 Instrument :

Delta R.T MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Jan 2022 00.21 SG-2

Tot Ion:1

Ion Rati

128 100

127 23.

129 8.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/25/2022

Supervised By :Mahesh Dadoda 01/26/2022

