

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112921\
 Data File : VL038136.D
 Acq On : 29 Nov 2021 15:36
 Operator : SY/AP
 Sample : M4827-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/30/2021
 Supervised By :Mahesh Dadoda 12/01/2021

Quant Time: Nov 30 06:18:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	982244	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2604443	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2267173	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1839015	11.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	32029	0.197	ppbv	90
3) Chlorodifluoromethane	3.00	51	45039m	0.218	ppbv	
4) Chloromethane	3.15	50	29646m	0.422	ppbv	
7) Chloroethane	3.57	64	230164	9.414	ppbv	94
9) Propene	3.03	41	370277m	4.874	ppbv	
10) Heptane	8.12	43	40228	0.214	ppbv	95
11) Trichlorofluoromethane	3.96	101	32820	0.213	ppbv	97
13) Ethanol	3.64	45	16594751	2260.450	ppbv	95
15) Acetone	3.86	43	650868	7.643	ppbv	98
17) tert-Butyl alcohol	4.33	59	86164m	0.834	ppbv	
19) Isopropyl Alcohol	4.00	45	4830154	78.497	ppbv	100
20) Methylene Chloride	4.35	84	134497	2.820	ppbv	94
26) Hexane	5.70	57	159734	1.171	ppbv #	49
29) Chloroform	5.76	83	948315	4.717	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	18259m	0.141	ppbv	
34) 2-Butanone	5.26	43	33250m	0.317	ppbv	
35) Carbon Tetrachloride	7.03	117	11330m	0.062	ppbv	
36) Benzene	6.89	78	213905	0.823	ppbv	100
38) Trichloroethene	7.84	130	10599m	0.108	ppbv	
42) Bromodichloromethane	7.80	83	65274m	0.342	ppbv	
52) Tetrachloroethene	11.23	164	3166315	32.938	ppbv	99
53) Toluene	9.81	91	118866	0.398	ppbv	100
58) Ethyl Benzene	12.71	91	47555m	0.127	ppbv	
59) m/p-Xylene	12.97	91	127122	0.403	ppbv	98
60) o-Xylene	13.69	91	55130	0.188	ppbv	96
74) 1,2,4-Trimethylbenzene	16.75	105	32961m	0.103	ppbv	

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

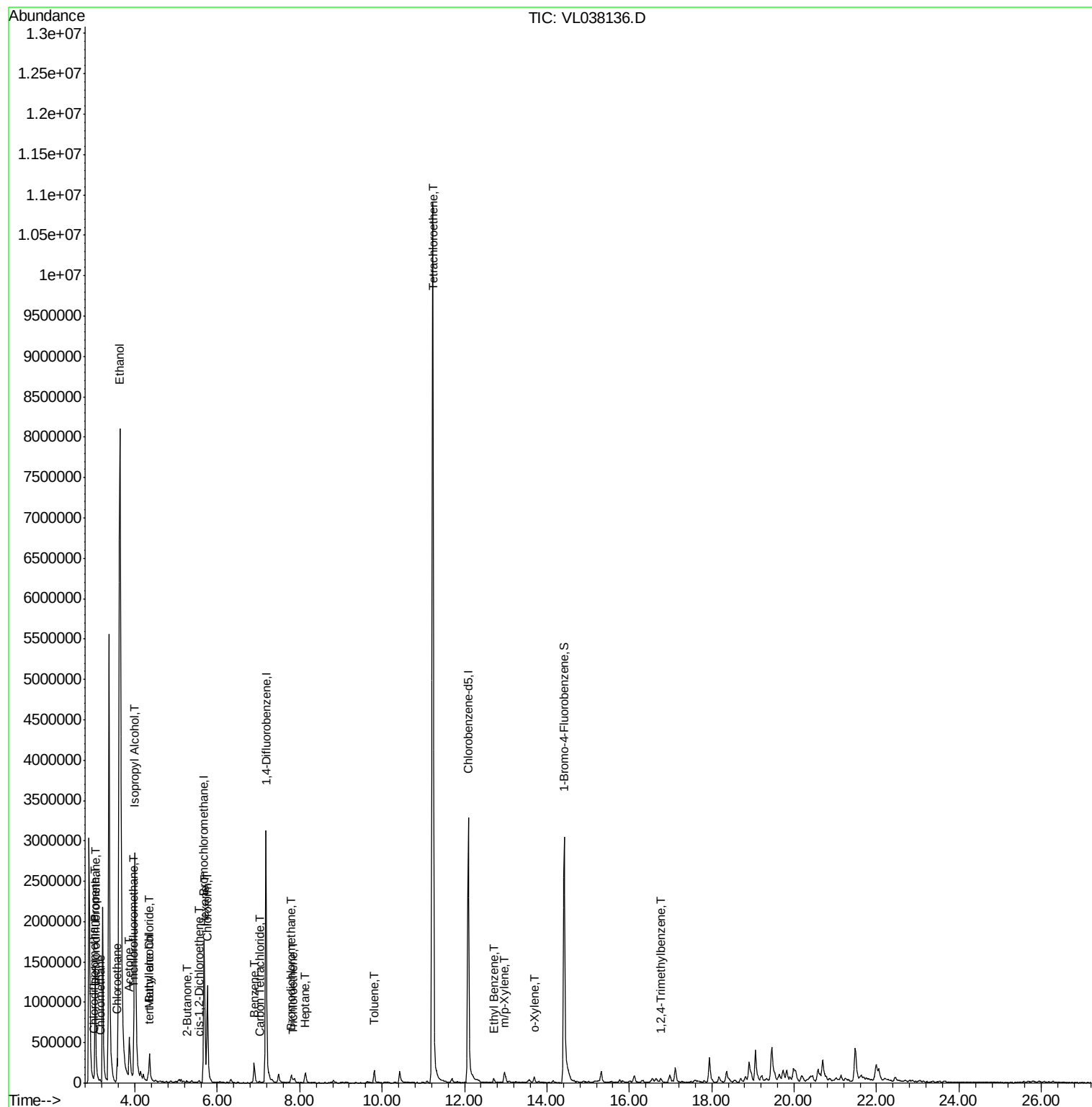
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112921\
Data File : VL038136.D
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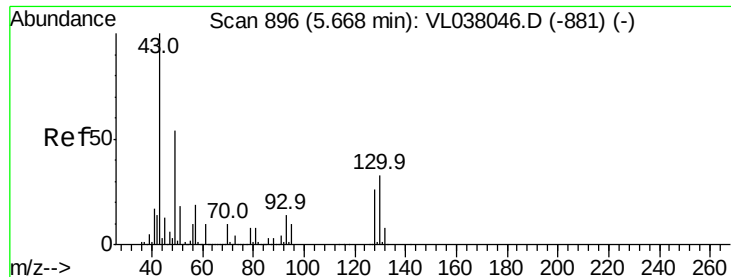
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Quant Time: Nov 30 06:18:14 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 15:30

Tot Ion:

Ion Ratio

49 100

128 47.

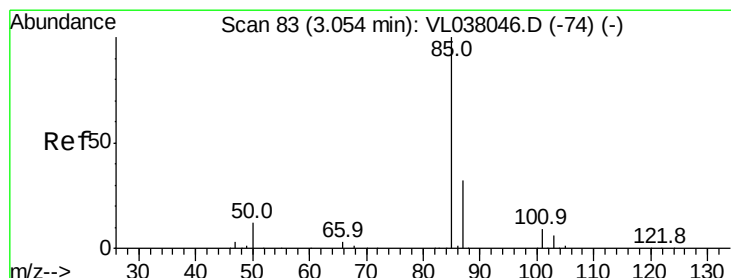
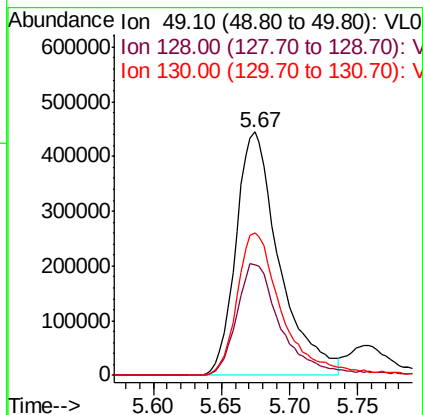
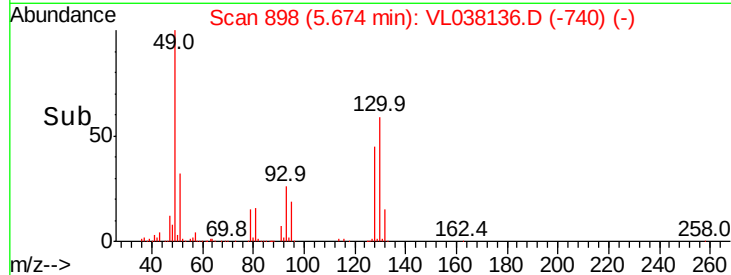
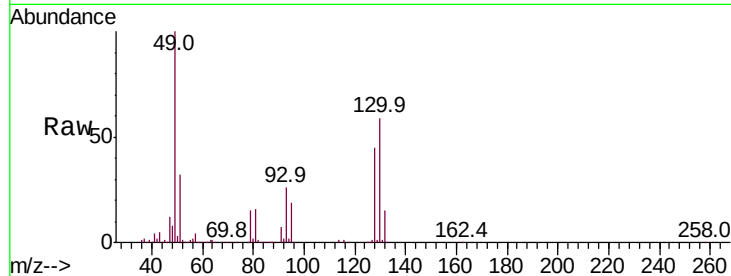
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#2

Dichlorodifluoromethane

Concen: 0.197 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL038136.D

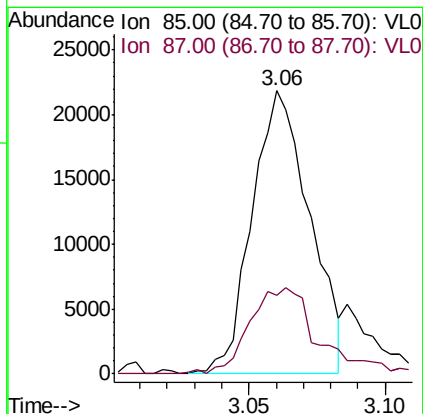
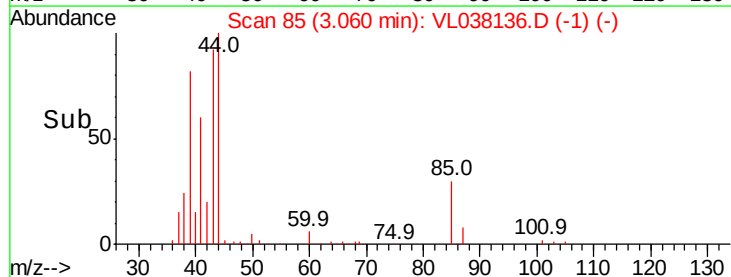
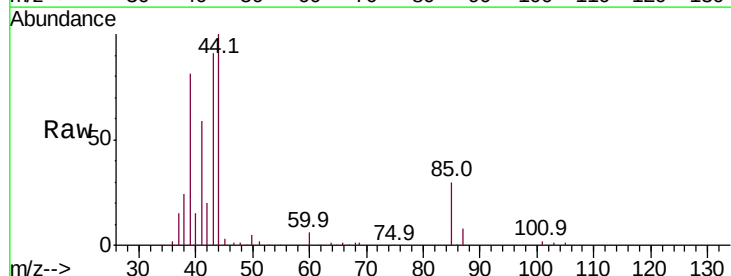
Acq: 29 Nov 2021 15:36

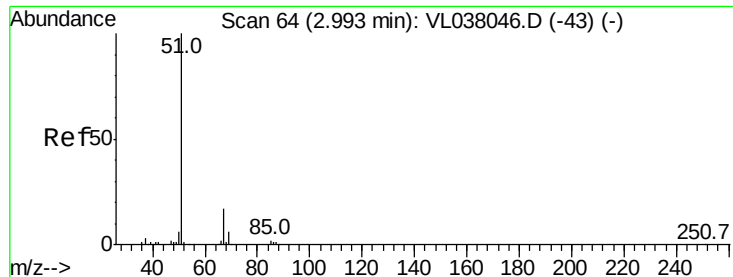
Tgt Ion: 85 Resp: 32029

Ion Ratio Lower Upper

85 100

87 26.8 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.218 ppbv m

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 15:30

Tot Ion:

Ion Ratio

51 100

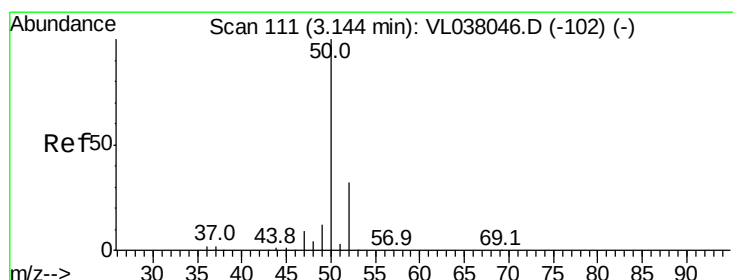
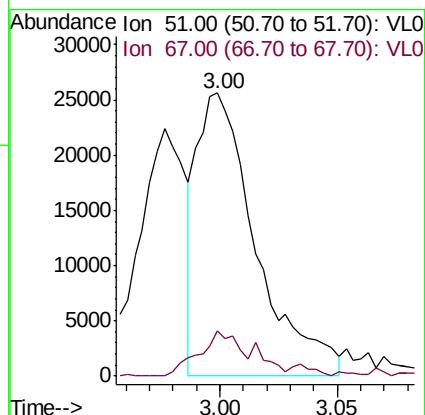
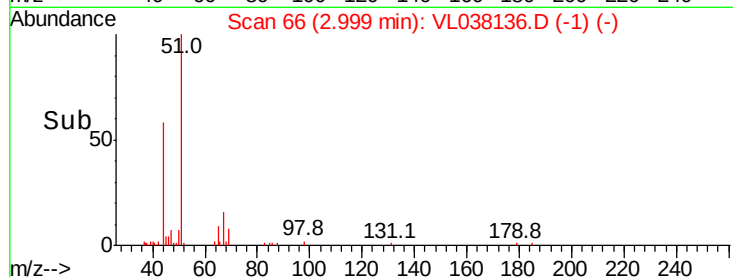
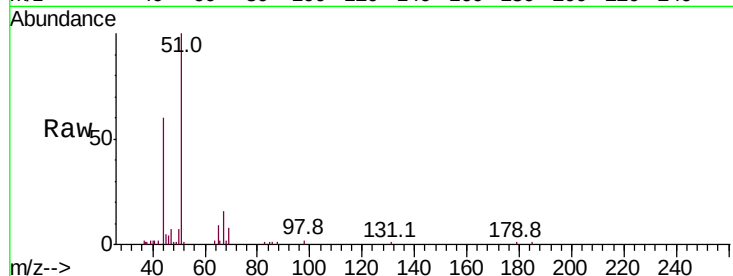
67 17.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

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#4

Chloromethane

Concen: 0.422 ppbv m

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL038136.D

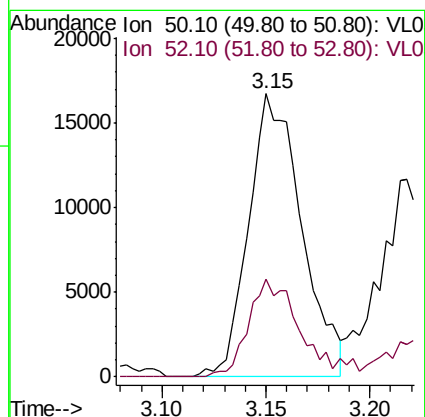
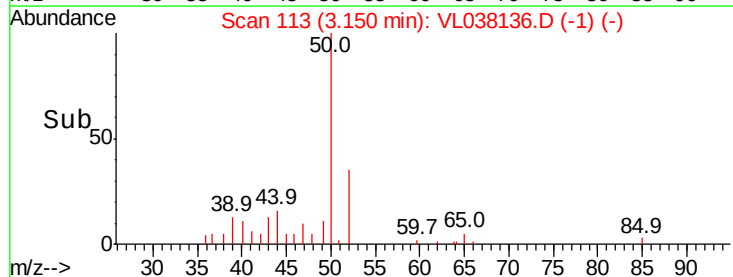
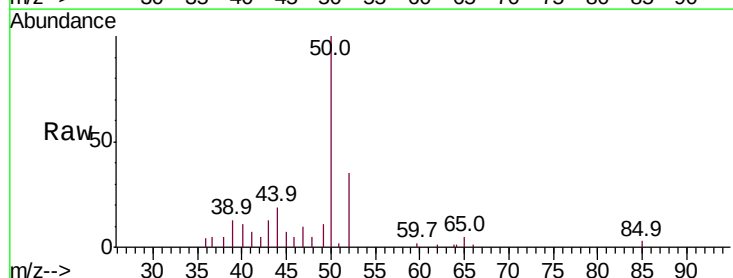
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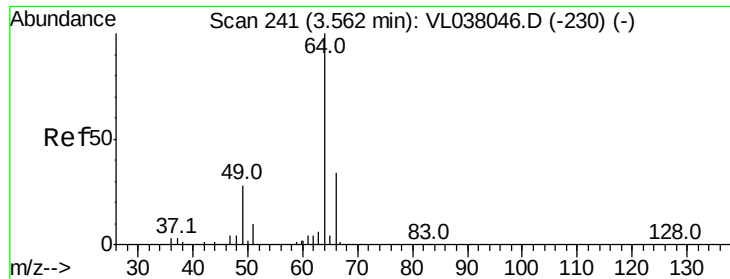
Tgt Ion: 50 Resp: 29646

Ion Ratio Lower Upper

50 100

52 34.5 25.4 38.0





#7

Chloroethane

Concen: 9.414 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 15:30

Tot Ion:

Ion Ratio

64 100

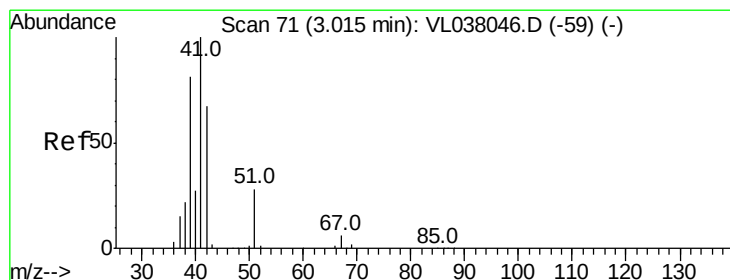
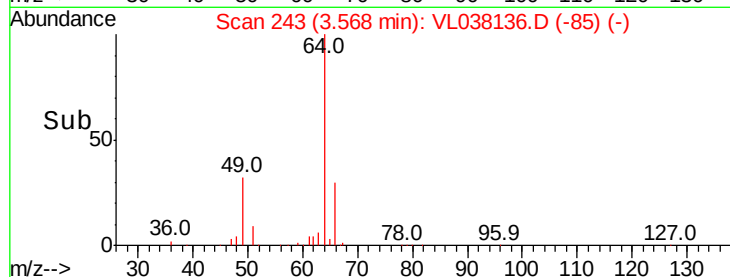
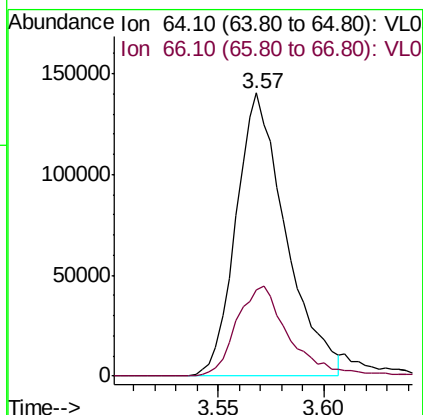
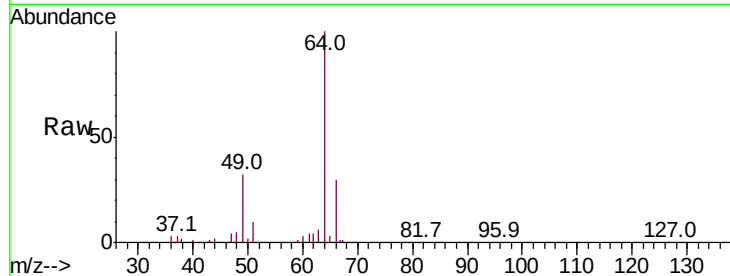
66 30.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#9

Propene

Concen: 4.874 ppbv m

RT: 3.03 min Scan# 77

Delta R.T. 0.02 min

Lab File: VL038136.D

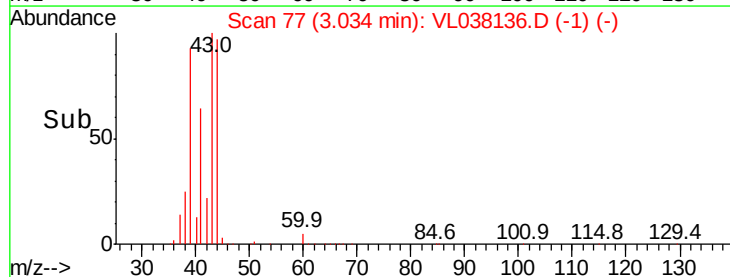
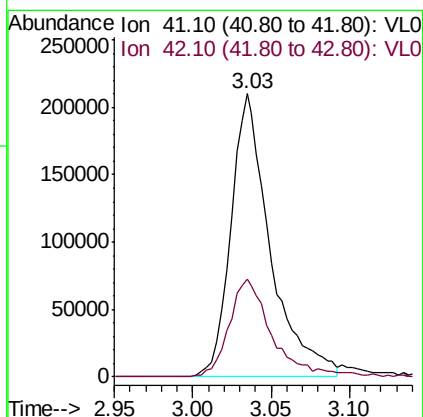
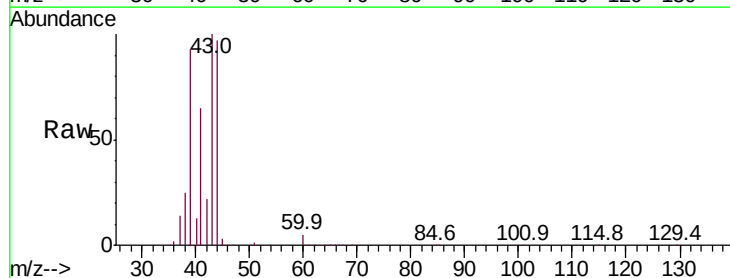
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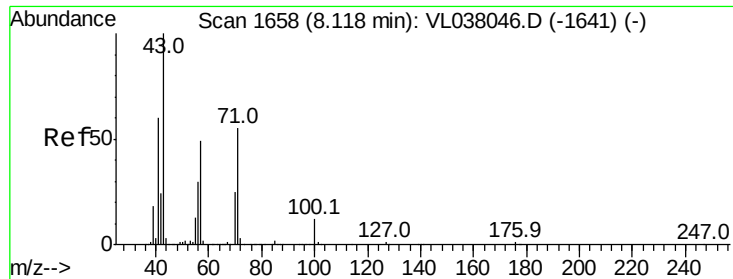
Tgt Ion: 41 Resp: 370277

Ion Ratio Lower Upper

41 100

42 145.1 53.8 80.8#



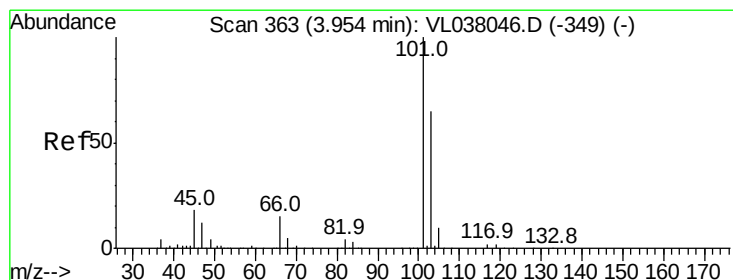
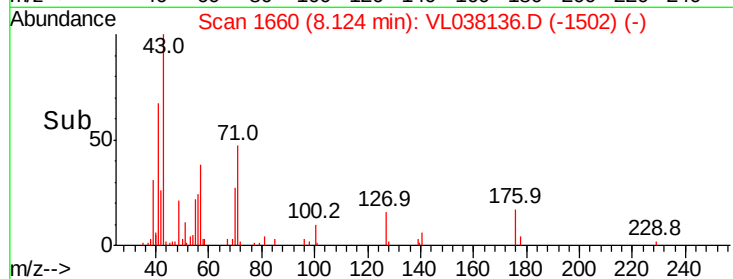
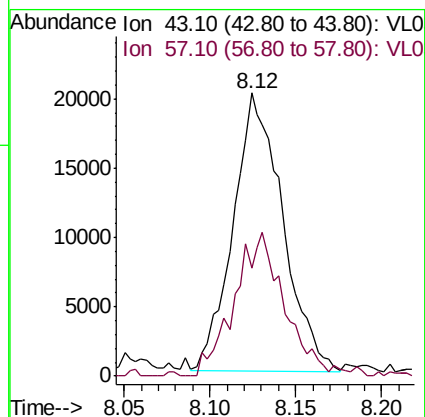
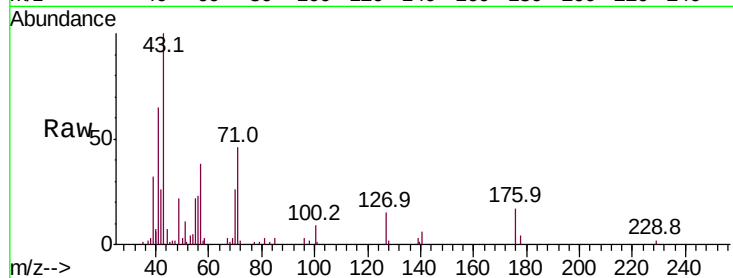


#10
 Heptane
 Concen: 0.214 ppbv
 RT: 8.12
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 29 Nov 2021 15:36

Tot Ion:
 Ion Ratio
 43 100
 57 54.

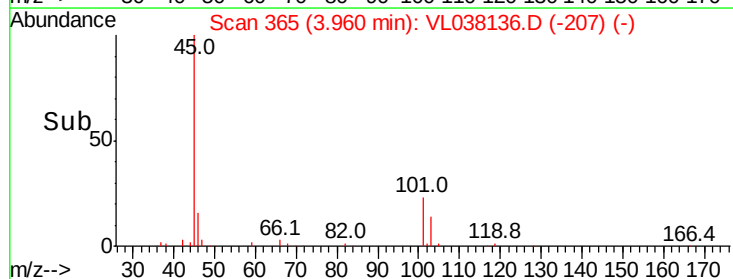
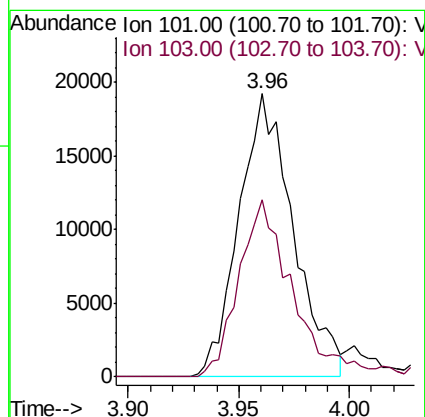
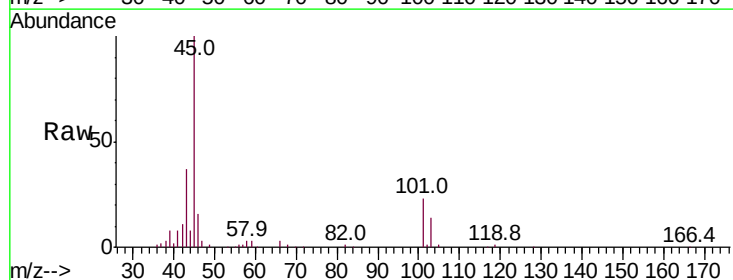
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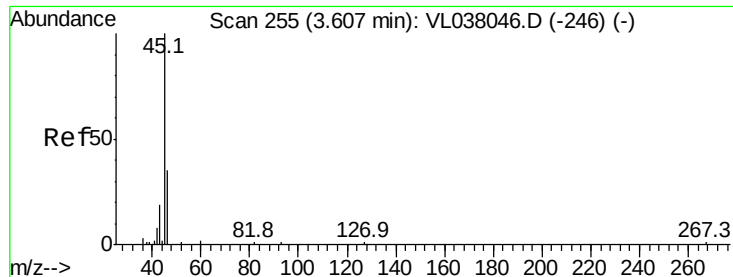
Reviewed By :Semsettin Yesilyurt 11/30/2021
 Supervised By :Mahesh Dadoda 12/01/2021



#11
 Trichlorofluoromethane
 Concen: 0.213 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VL038136.D
 Acq: 29 Nov 2021 15:36

Tgt Ion:101 Resp: 32820
 Ion Ratio Lower Upper
 101 100
 103 62.5 51.8 77.6



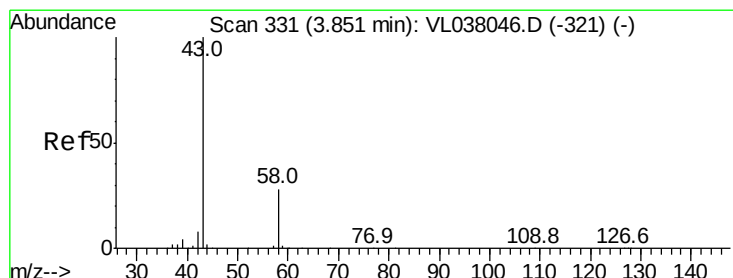
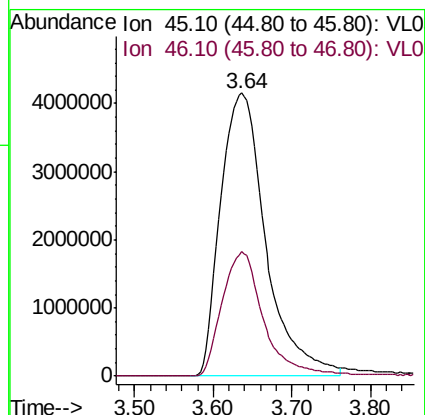
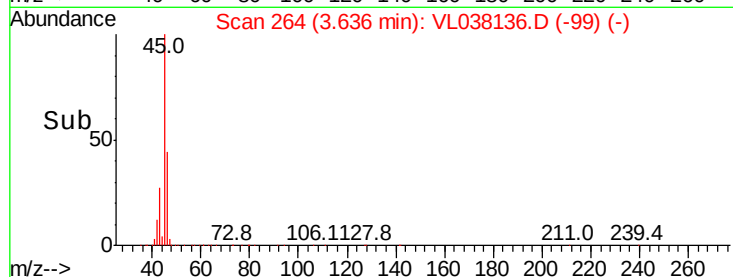
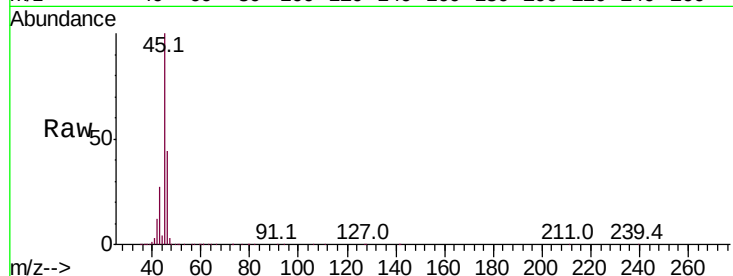


#13
Ethanol
Concen: 2260.450 ppbv
RT: 3.64
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 29 Nov 2021 15:30

Tot Ion:
Ion Ratio
45 100
46 40.

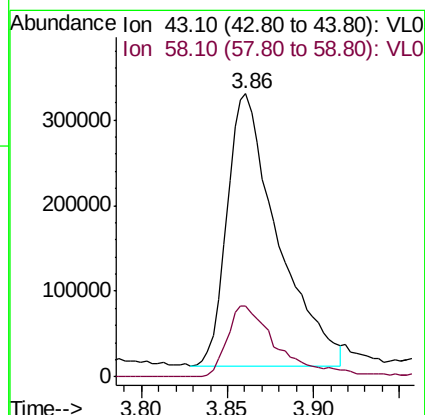
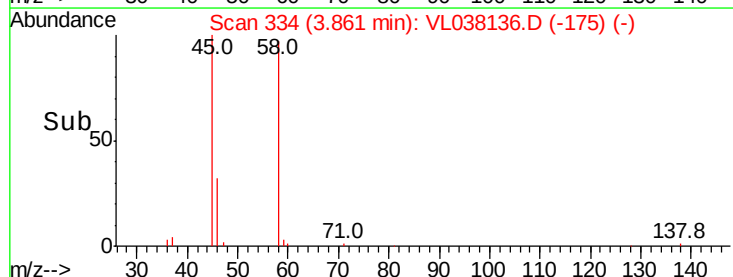
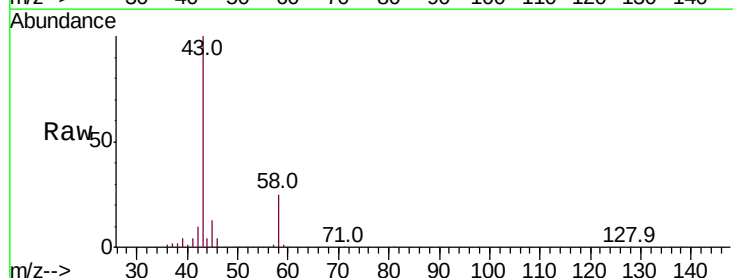
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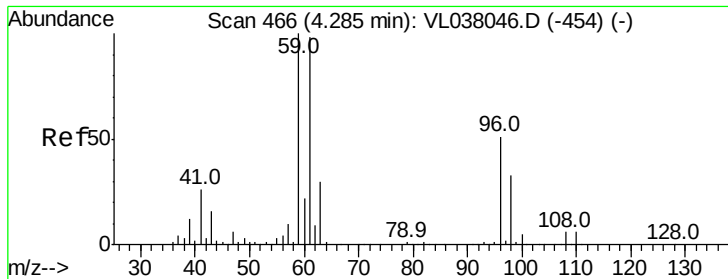
Reviewed By :Semsettin Yesilyurt 11/30/2021
Supervised By :Mahesh Dadoda 12/01/2021



#15
Acetone
Concen: 7.643 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL038136.D
Acq: 29 Nov 2021 15:36

Tgt Ion: 43 Resp: 650868
Ion Ratio Lower Upper
43 100
58 26.9 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.834 ppbv m

RT: 4.33 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 15:30

Tot Ion:

Ion Ratio

59 100

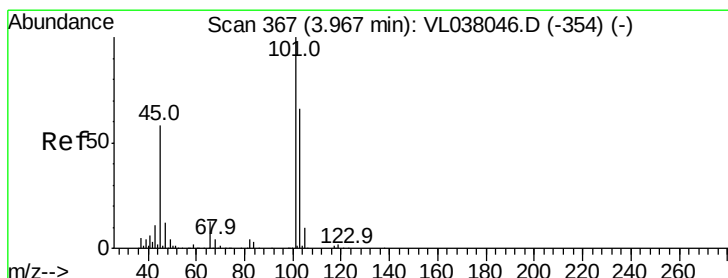
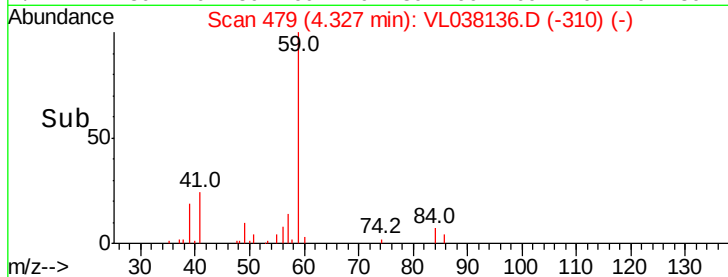
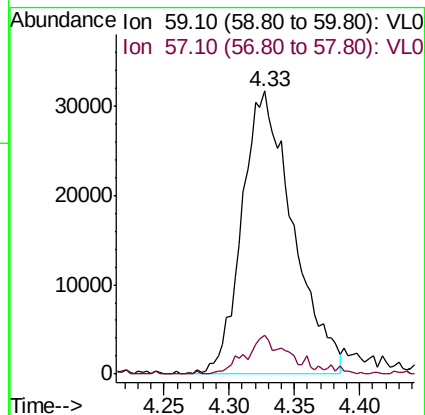
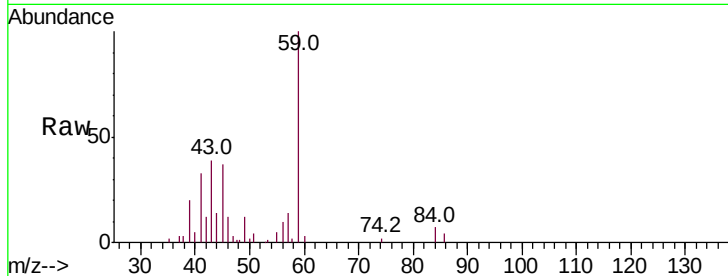
57 22.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#19

Isopropyl Alcohol

Concen: 78.497 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.03 min

Lab File: VL038136.D

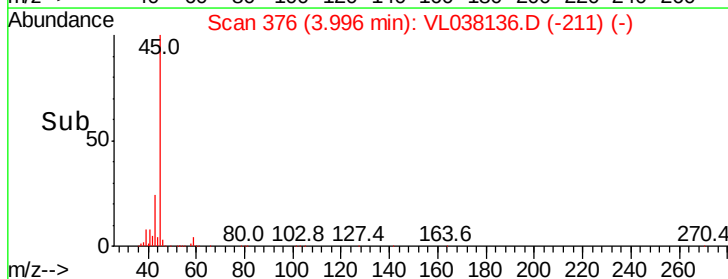
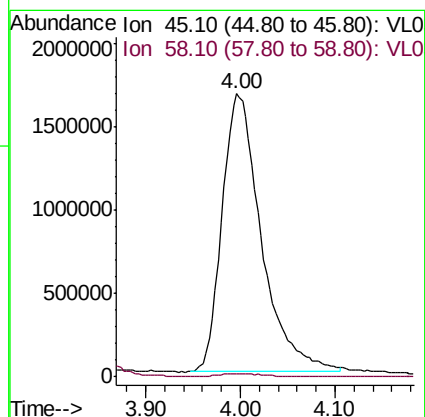
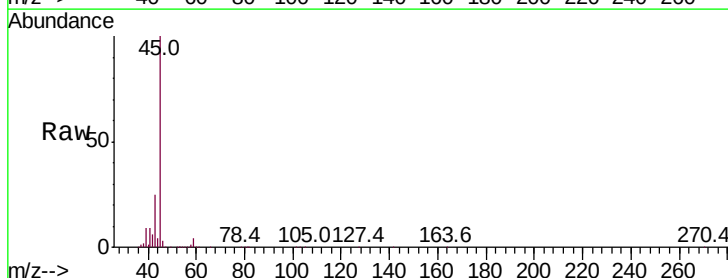
Acq: 29 Nov 2021 15:36

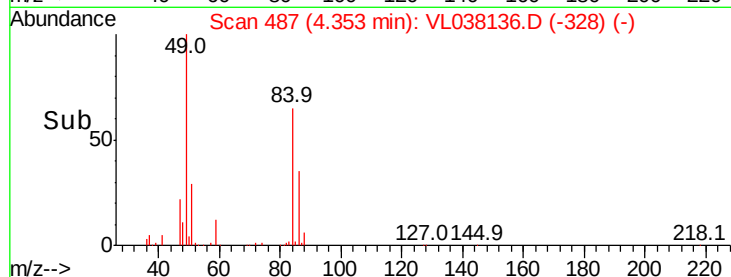
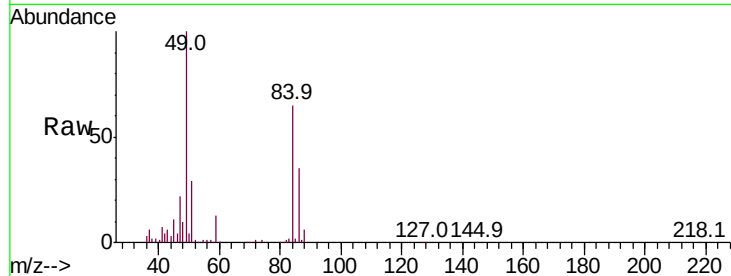
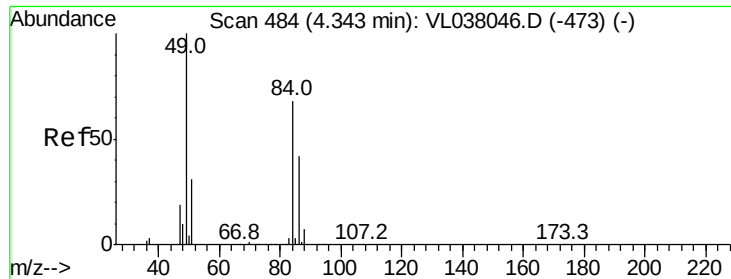
Tgt Ion: 45 Resp: 4830154

Ion Ratio Lower Upper

45 100

58 1.5 1.4 2.0



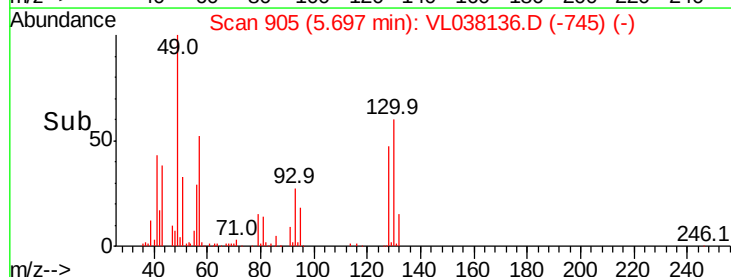
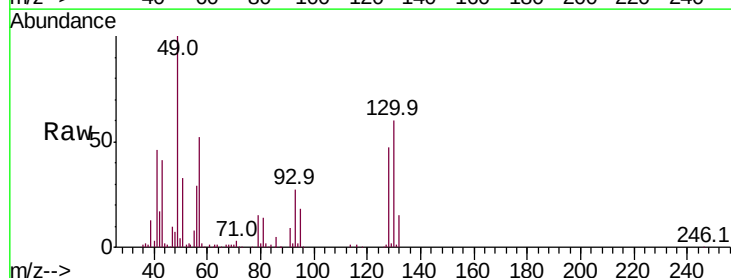
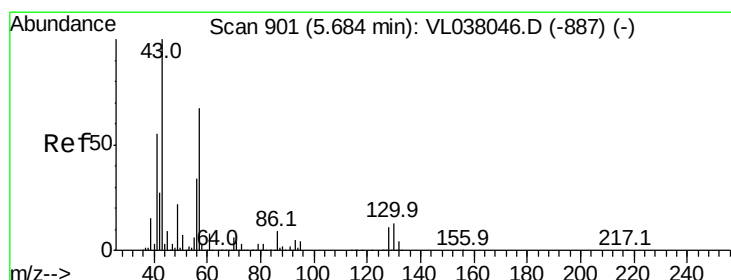
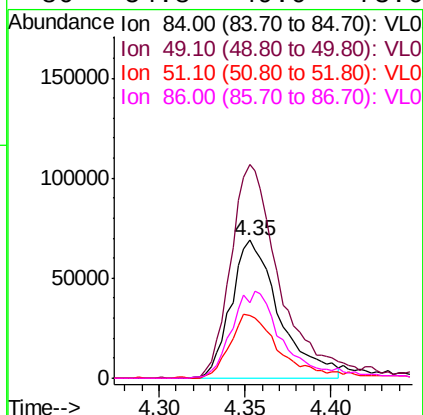


#20
Methvlene Chloride
Concen: 2.820 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 29 Nov 2021 15:36

Tot Ion:
Ion Ratio
84 100
49 154.
51 45.
86 54.8 49.0 73.6

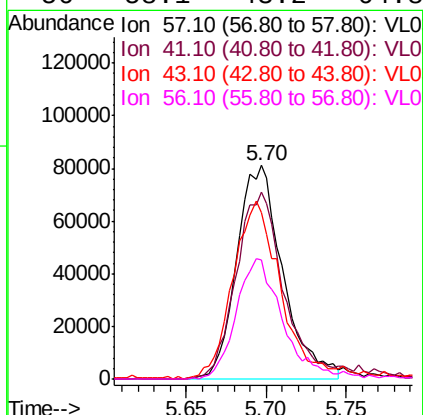
Manual Integrations
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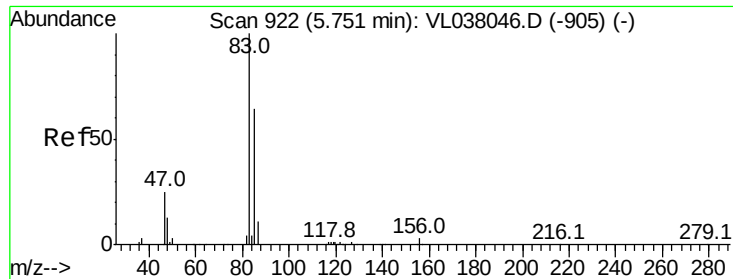
Reviewed By :Semsettin Yesilyurt 11/30/2021
Supervised By :Mahesh Dadoda 12/01/2021



#26
Hexane
Concen: 1.171 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL038136.D
Acq: 29 Nov 2021 15:36

Tgt Ion: 57 Resp: 159734
Ion Ratio Lower Upper
57 100
41 96.0 71.4 107.2
43 89.5 174.6 261.8#
56 58.1 43.2 64.8



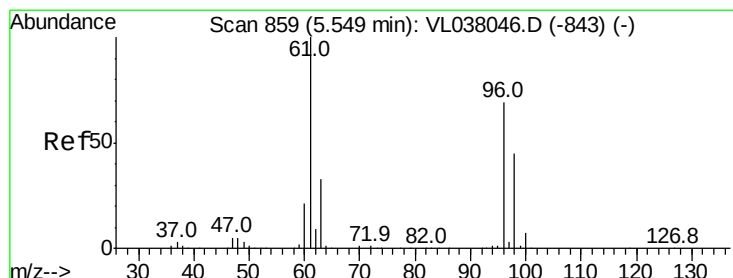
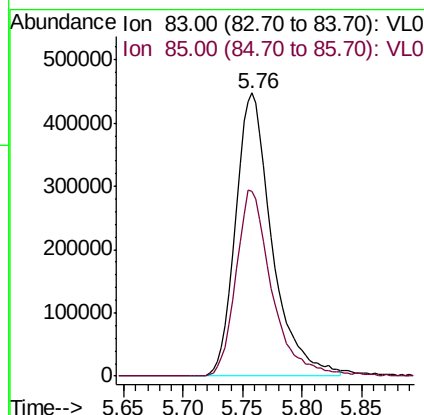
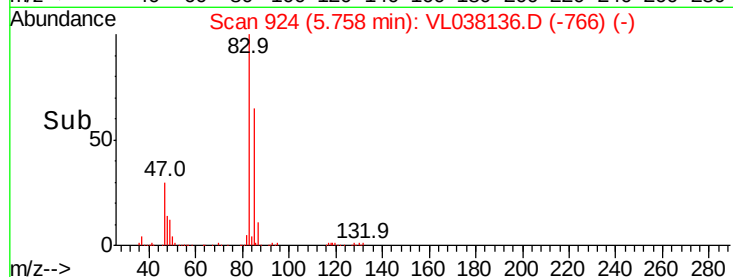
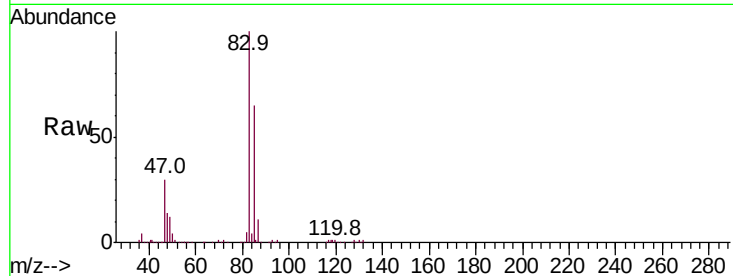


#29
Chloroform
Concen: 4.717 ppbv
RT: 5.76
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Nov 2021 15:36

Tot Ion:
Ion Rati
83 100
85 65.

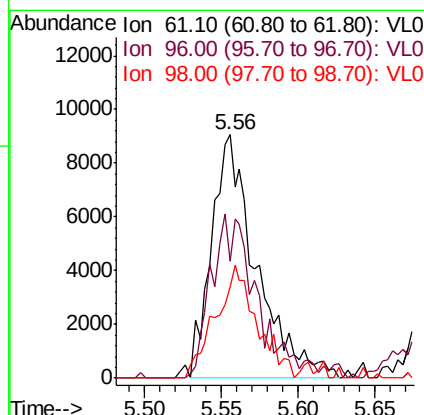
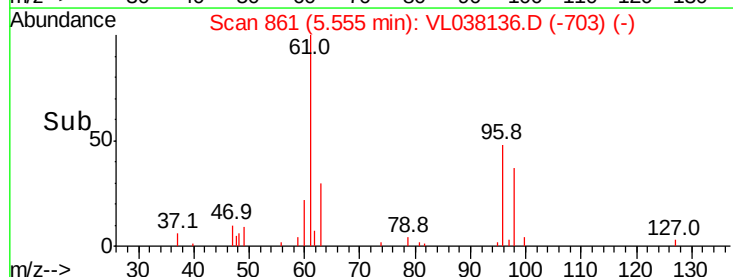
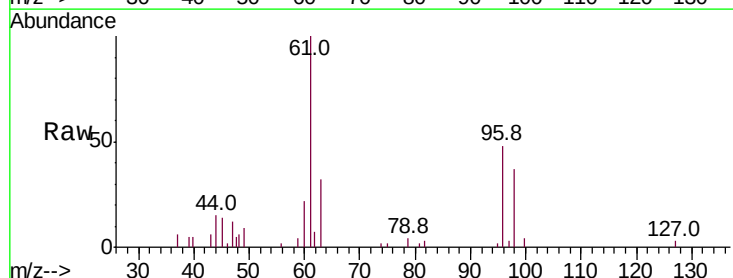
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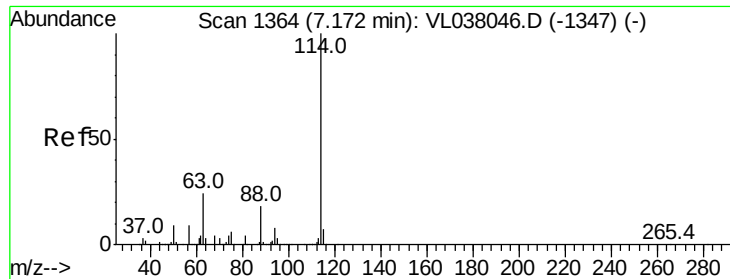
Reviewed By :Semsettin Yesilyurt 11/30/2021
Supervised By :Mahesh Dadoda 12/01/2021



#31
cis-1,2-Dichloroethene
Concen: 0.141 ppbv m
RT: 5.56 min Scan# 861
Delta R.T. 0.01 min
Lab File: VL038136.D
Acq: 29 Nov 2021 15:36

Tgt Ion: 61 Resp: 18259
Ion Ratio Lower Upper
61 100
96 47.9 55.4 83.2#
98 37.3 35.7 53.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18

Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId :

Acq: 29 Nov 2021 15:30

Tot Ion:1

Ion Rati

114 100

63 27.

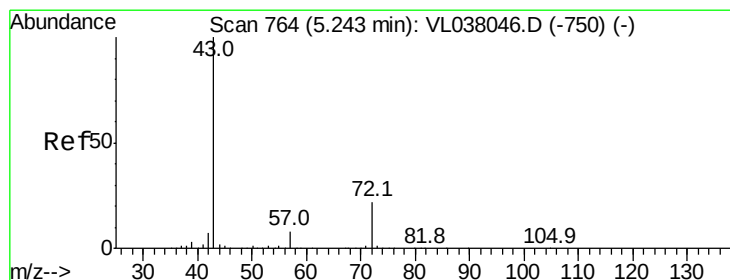
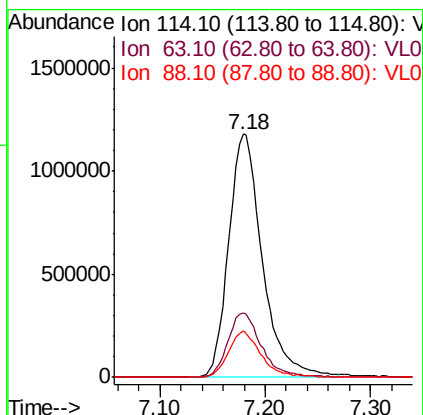
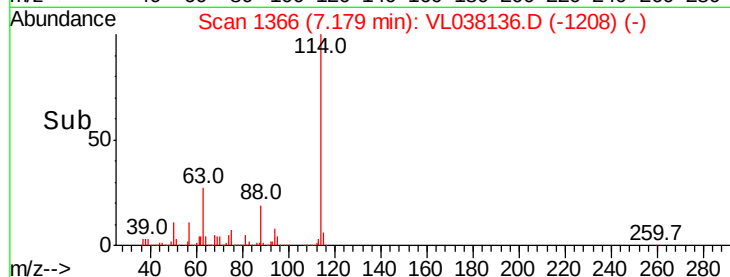
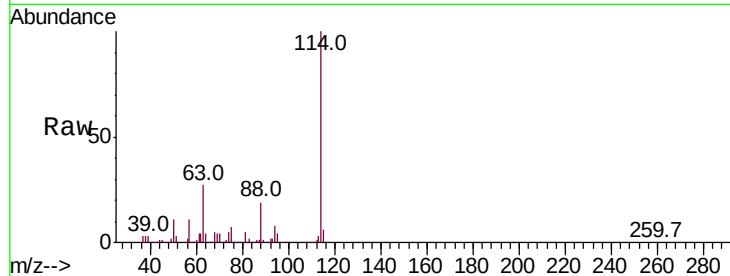
88 18.

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#34

2-Butanone

Concen: 0.317 ppbv m

RT: 5.26 min Scan# 768

Delta R.T. 0.01 min

Lab File: VL038136.D

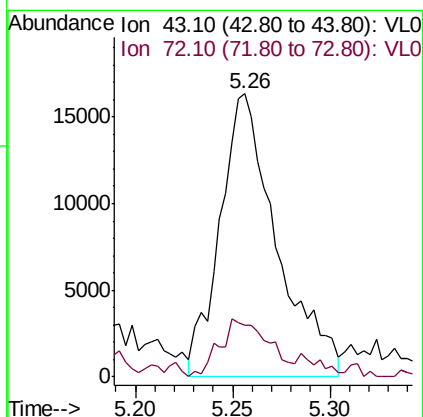
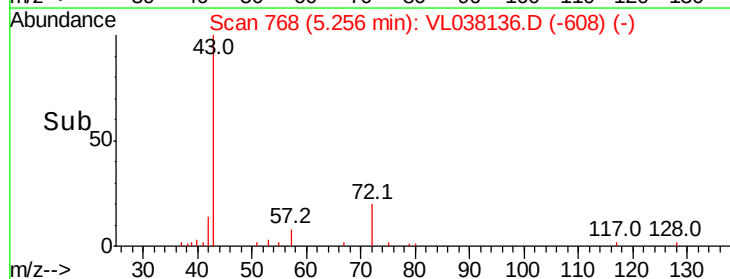
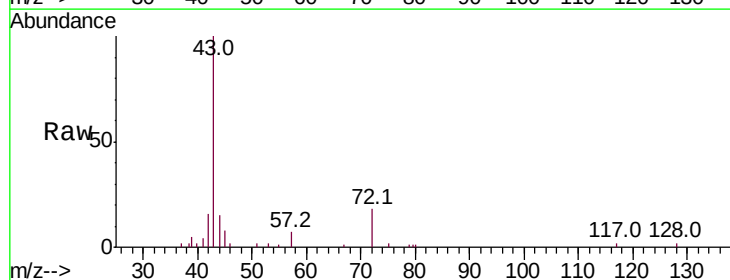
Acq: 29 Nov 2021 15:36

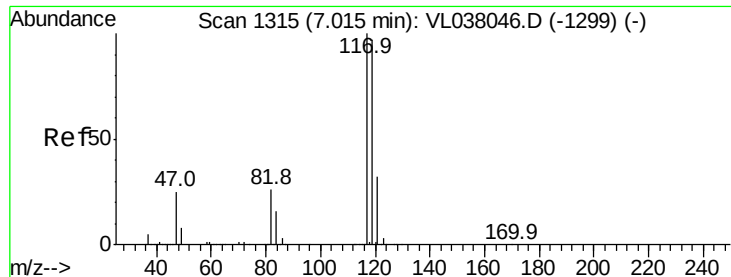
Tgt Ion: 43 Resp: 33250

Ion Ratio Lower Upper

43 100

72 22.9 18.8 28.2





#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 15:36

Tot Ion:1

Ion Rati

117 100

119 76.

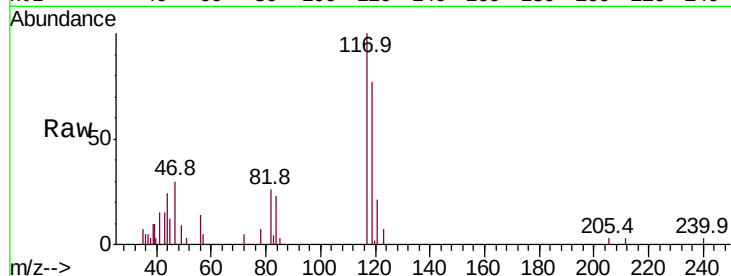
121 20.

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Reviewed By :Semsettin Yesilyurt 11/30/2021

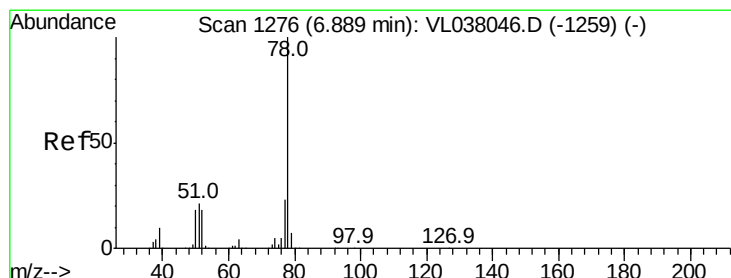
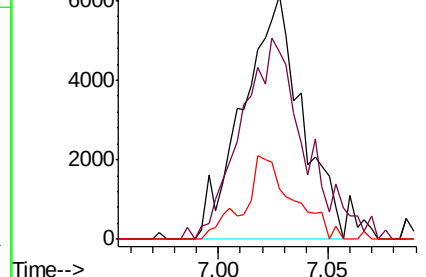
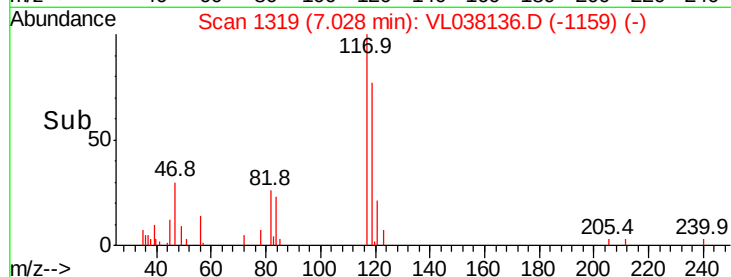
Supervised By :Mahesh Dadoda 12/01/2021



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.823 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL038136.D

Acq: 29 Nov 2021 15:36

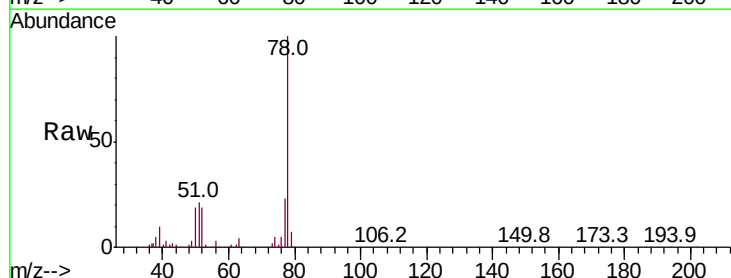
Tgt Ion: 78 Resp: 213905

Ion Ratio Lower Upper

78 100

77 22.5 18.2 27.4

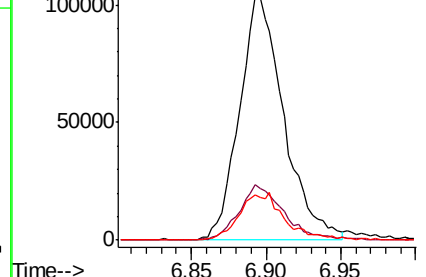
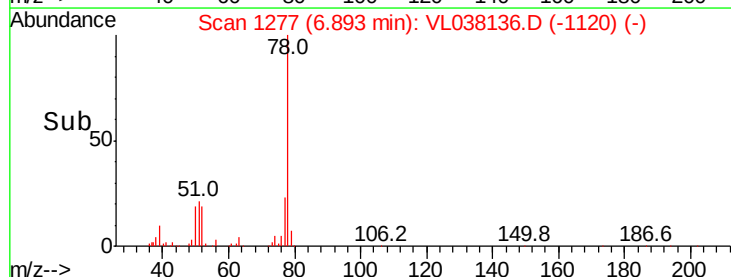
50 18.6 14.7 22.1

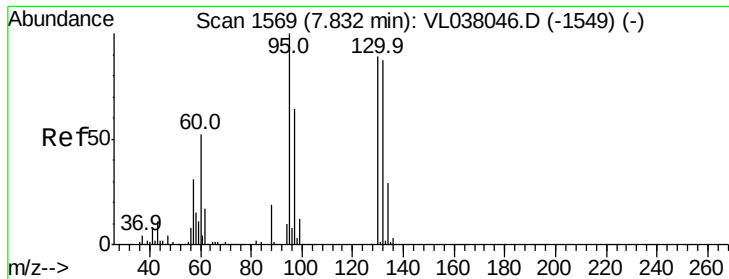


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.108 ppbv m

RT: 7.84 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 29 Nov 2021 15:36

Tot Ion:1

Ion Rati

130 100

95 100.

132 100.

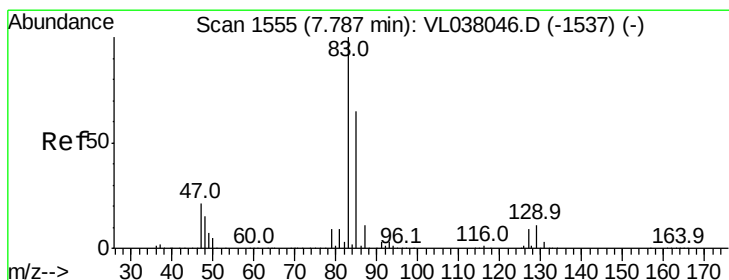
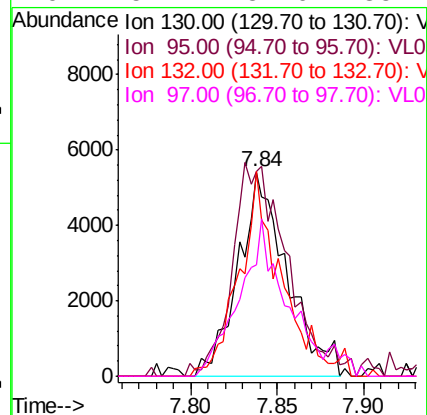
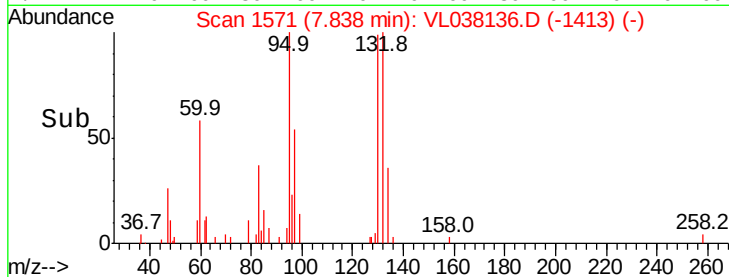
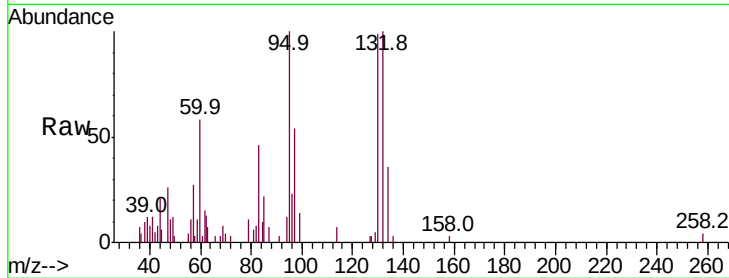
97 54.7 57.0 85.4#

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#42

Bromodichloromethane

Concen: 0.342 ppbv m

RT: 7.80 min Scan# 1559

Delta R.T. 0.01 min

Lab File: VL038136.D

Acq: 29 Nov 2021 15:36

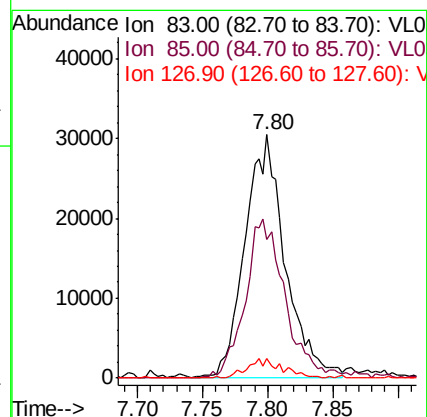
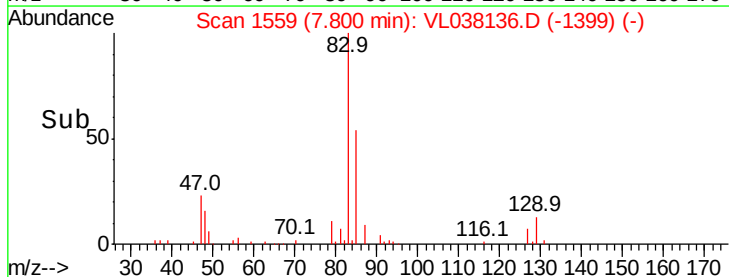
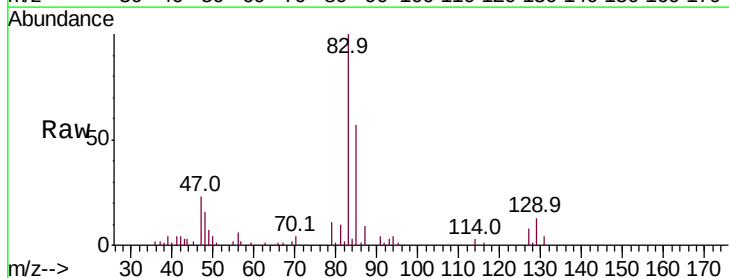
Tgt Ion: 83 Resp: 65274

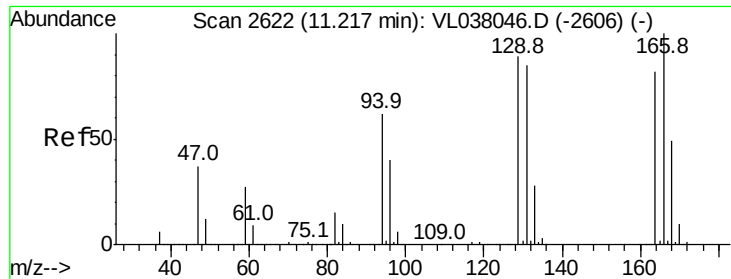
Ion Ratio Lower Upper

83 100

85 57.0 51.9 77.9

127 8.0 6.8 10.2





#52

Tetrachloroethene

Concen: 32.938 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File:

Acq: 29 Nov 2021 15:36

ClientSampleId :

IA-1

Tot Ion:1

Ion Rati

164 100

166 123.

129 109.

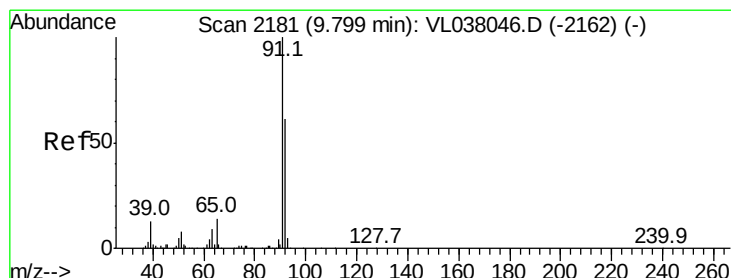
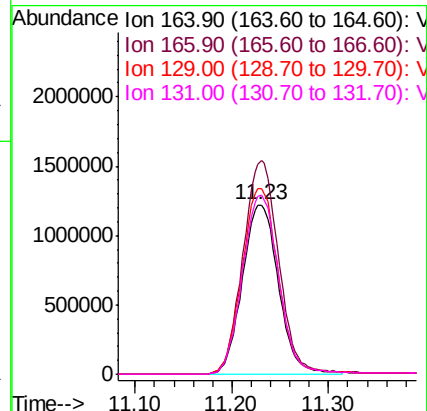
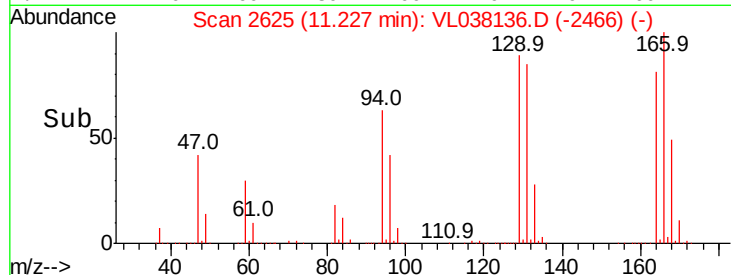
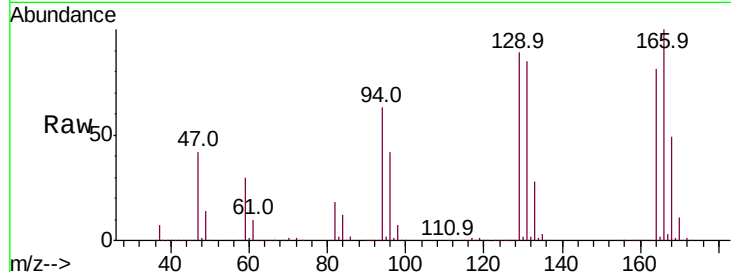
131 104.9

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Reviewed By :Semsettin Yesilyurt 11/30/2021

Supervised By :Mahesh Dadoda 12/01/2021



#53

Toluene

Concen: 0.398 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.01 min

Lab File: VL038136.D

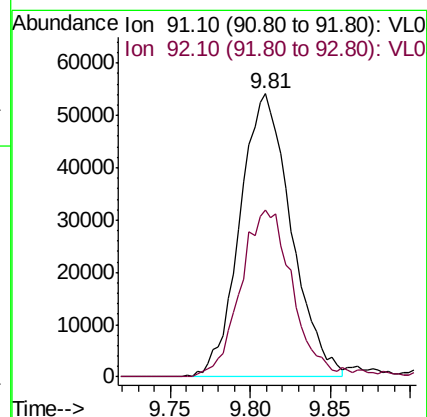
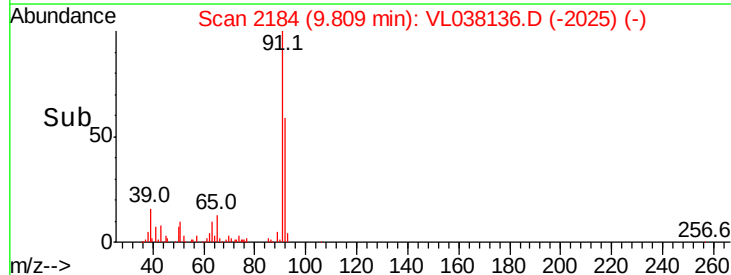
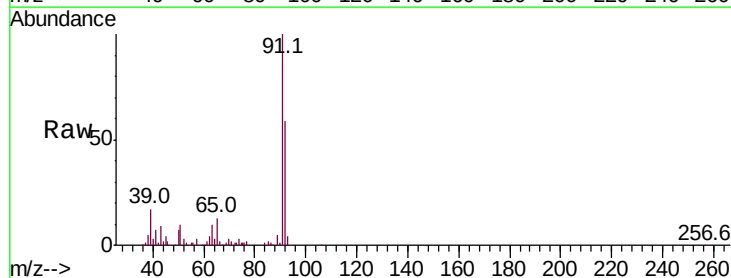
Acq: 29 Nov 2021 15:36

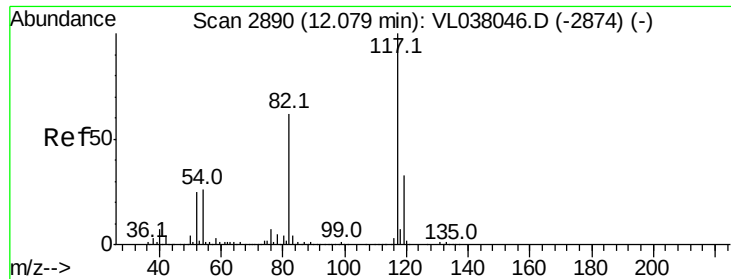
Tgt Ion: 91 Resp: 118866

Ion Ratio Lower Upper

91 100

92 61.7 49.7 74.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Nov 2021 15:30

Tot Ion:1

Ion Rati

117 100

82 72.

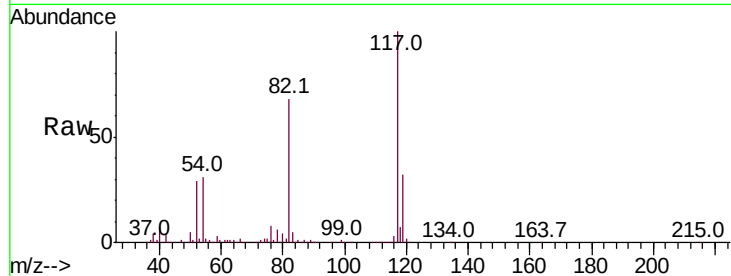
119 34.

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Reviewed By :Semsettin Yesilyurt 11/30/2021

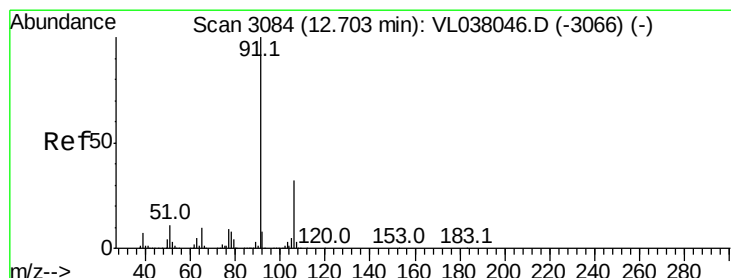
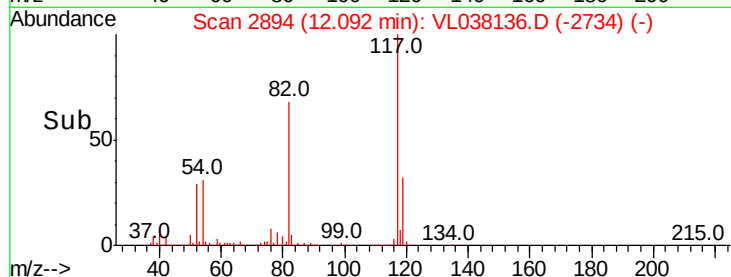
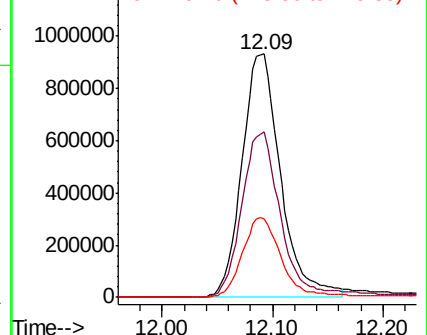
Supervised By :Mahesh Dadoda 12/01/2021



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: 0.127 ppbv m

RT: 12.71 min Scan# 3087

Delta R.T. 0.01 min

Lab File: VL038136.D

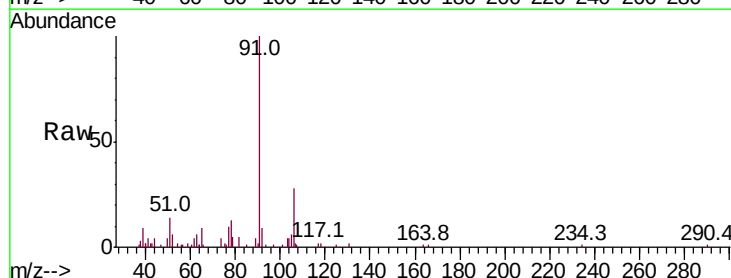
Acq: 29 Nov 2021 15:36

Tgt Ion: 91 Resp: 47555

Ion Ratio Lower Upper

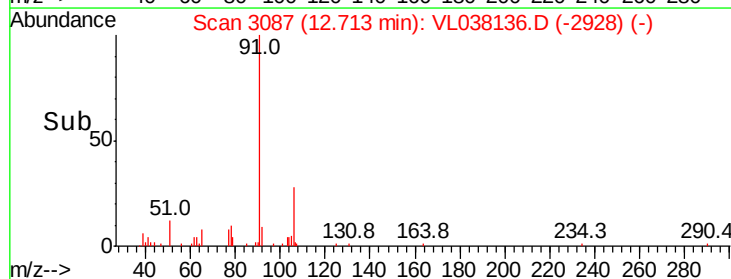
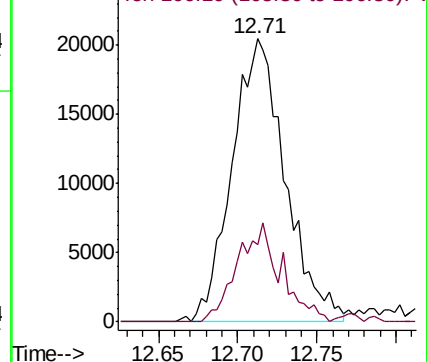
91 100

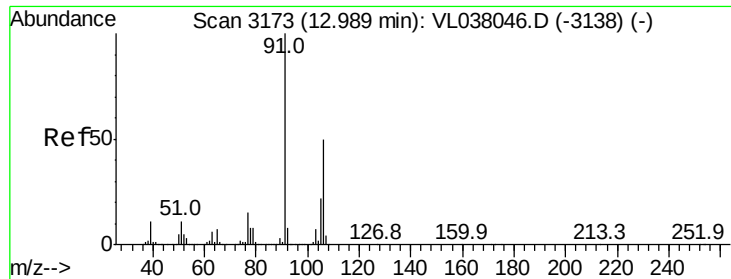
106 27.5 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



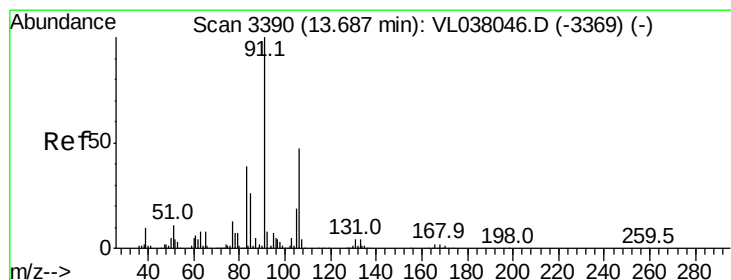
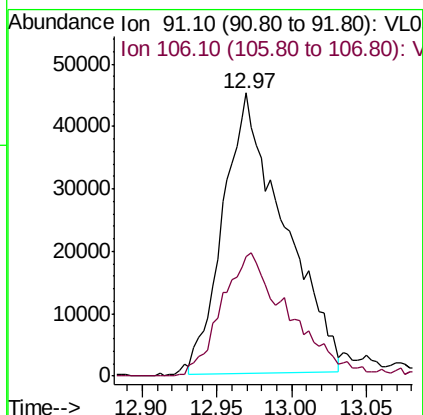
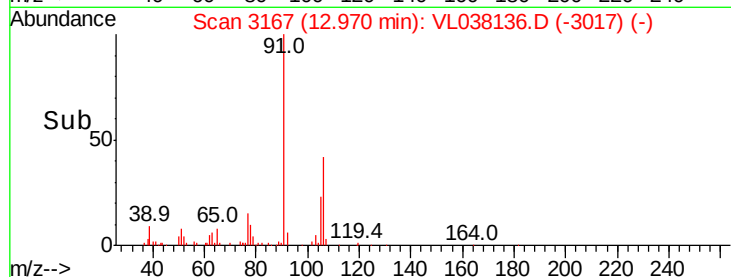
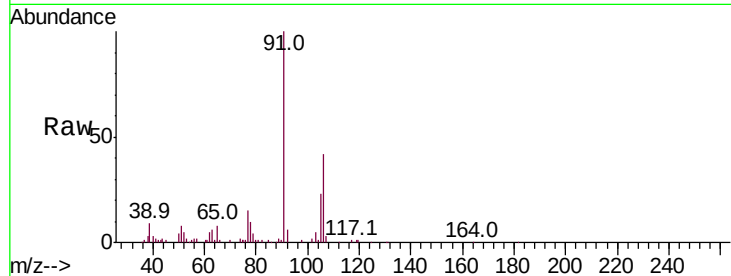


#59
m/p-Xylene
Concen: 0.403 ppbv
RT: 12.97 min
Delta R.T.: 0.01 min
Lab File: VL038136.D
Acq: 29 Nov 2021 15:36

Tot Ion:
Ion Ratio
91 100
106 49.

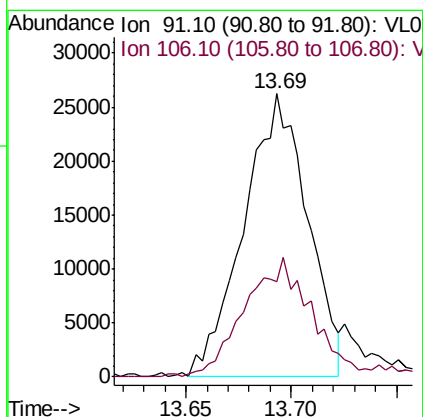
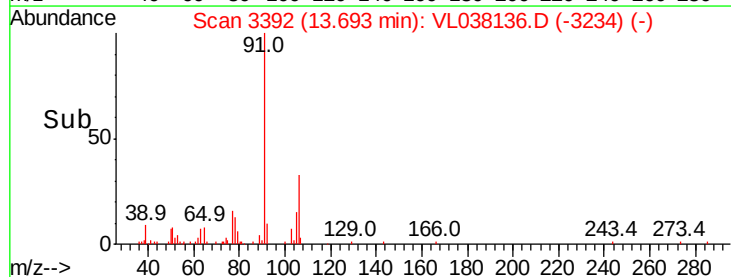
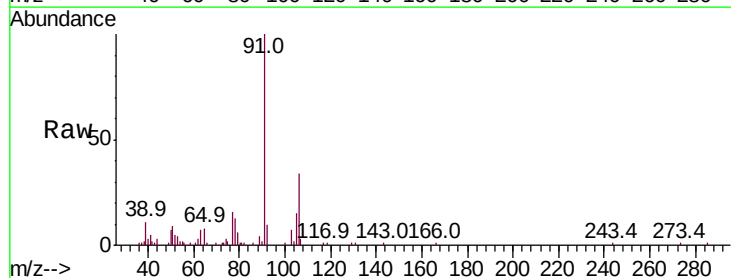
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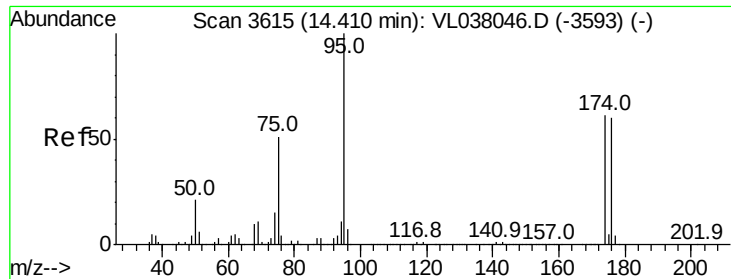
Reviewed By :Semsettin Yesilyurt 11/30/2021
Supervised By :Mahesh Dadoda 12/01/2021



#60
o-Xylene
Concen: 0.188 ppbv
RT: 13.69 min Scan# 3392
Delta R.T.: 0.01 min
Lab File: VL038136.D
Acq: 29 Nov 2021 15:36

Tgt Ion: 91 Resp: 55130
Ion Ratio Lower Upper
91 100
106 46.0 24.2 72.6



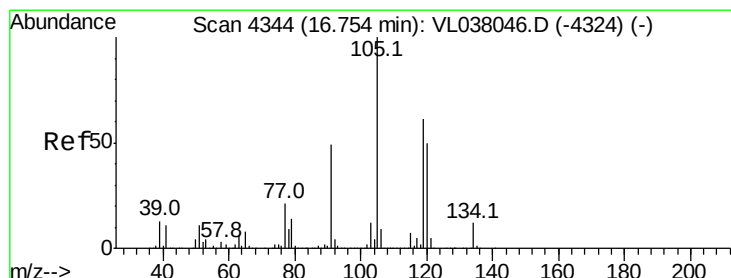
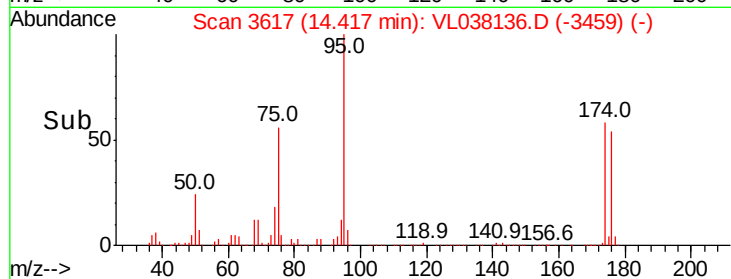
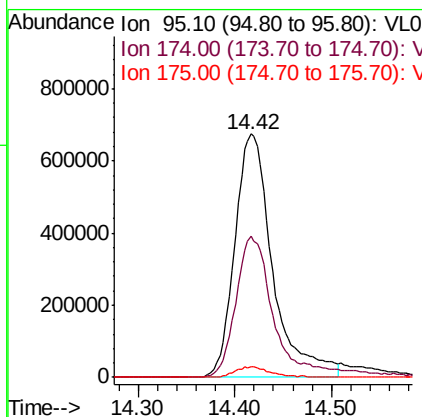
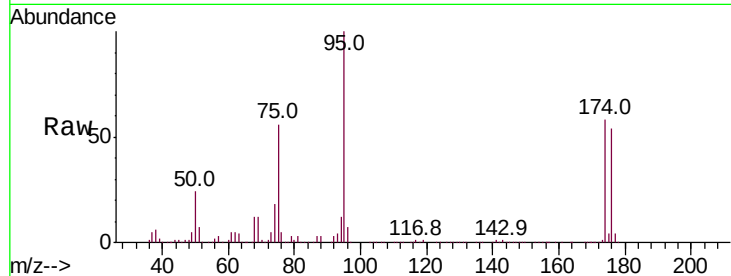


#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.245 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Nov 2021 15:30

Tot Ion:
 Ion Ratio
 95 100
 174 61.
 175 4.

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Reviewed By :Semsettin Yesilyurt 11/30/2021
 Supervised By :Mahesh Dadoda 12/01/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.103 ppbv m
 RT: 16.75 min Scan# 4344
 Delta R.T. 0.00 min
 Lab File: VL038136.D
 Acq: 29 Nov 2021 15:36

Tgt Ion:105 Resp: 32961
 Ion Ratio Lower Upper
 105 100
 120 33.5 40.1 60.1#
 91 13.9 39.8 59.8#
 77 15.3 16.6 25.0#

