

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039215.D
 Acq On : 7 Jun 2022 18:54
 Operator : SY/AP
 Sample : N3187-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-1B

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/10/2022
 Supervised By : Mahesh Dadoda 06/10/2022

Quant Time: Jun 08 05:59:13 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	828757	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1844662	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1687583	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1513584	10.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	106162	0.729	ppbv	97
3) Chlorodifluoromethane	2.99	51	1411483	13.386	ppbv	99
4) Chloromethane	3.14	50	30012	0.554	ppbv	94
9) Propene	3.03	41	182023m	3.959	ppbv	
10) Heptane	8.12	43	80254	0.748	ppbv	93
11) Trichlorofluoromethane	3.96	101	48138	0.365	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.50	101	9468m	0.109	ppbv	
13) Ethanol	3.62	45	13495548	5381.981	ppbv #	100
15) Acetone	3.85	43	1116115	12.928	ppbv #	88
17) tert-Butyl alcohol	4.31	59	17544m	0.262	ppbv	
19) Isopropyl Alcohol	3.98	45	2043273	50.462	ppbv	99
20) Methylene Chloride	4.35	84	292982	8.053	ppbv	98
26) Hexane	5.69	57	520589	6.088	ppbv #	56
29) Chloroform	5.75	83	20165m	0.140	ppbv	
30) Cyclohexane	7.13	84	51643m	0.719	ppbv	
34) 2-Butanone	5.25	43	92320	0.921	ppbv	96
35) Carbon Tetrachloride	7.02	117	12091m	0.090	ppbv	
36) Benzene	6.89	78	236966	1.582	ppbv	96
38) Trichloroethene	7.83	130	8772m	0.128	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	257463	0.983	ppbv #	82
52) Tetrachloroethene	11.23	164	7313m	0.125	ppbv	
53) Toluene	9.81	91	946729	5.490	ppbv	99
58) Ethyl Benzene	12.71	91	221386	0.952	ppbv	93
59) m/p-Xylene	12.97	91	666582	3.256	ppbv	99
60) o-Xylene	13.69	91	234797	1.221	ppbv	97
61) Styrene	13.52	104	26217m	0.255	ppbv	
64) n-propylbenzene	15.56	120	11214m	0.160	ppbv	
69) p-Isopropyltoluene	17.65	119	38777m	0.129	ppbv	
72) 4-Ethyltoluene	15.83	105	61107	0.271	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.99	105	48783m	0.240	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	175379	0.773	ppbv #	61
79) Naphthalene	22.18	128	17783m	0.102	ppbv	

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

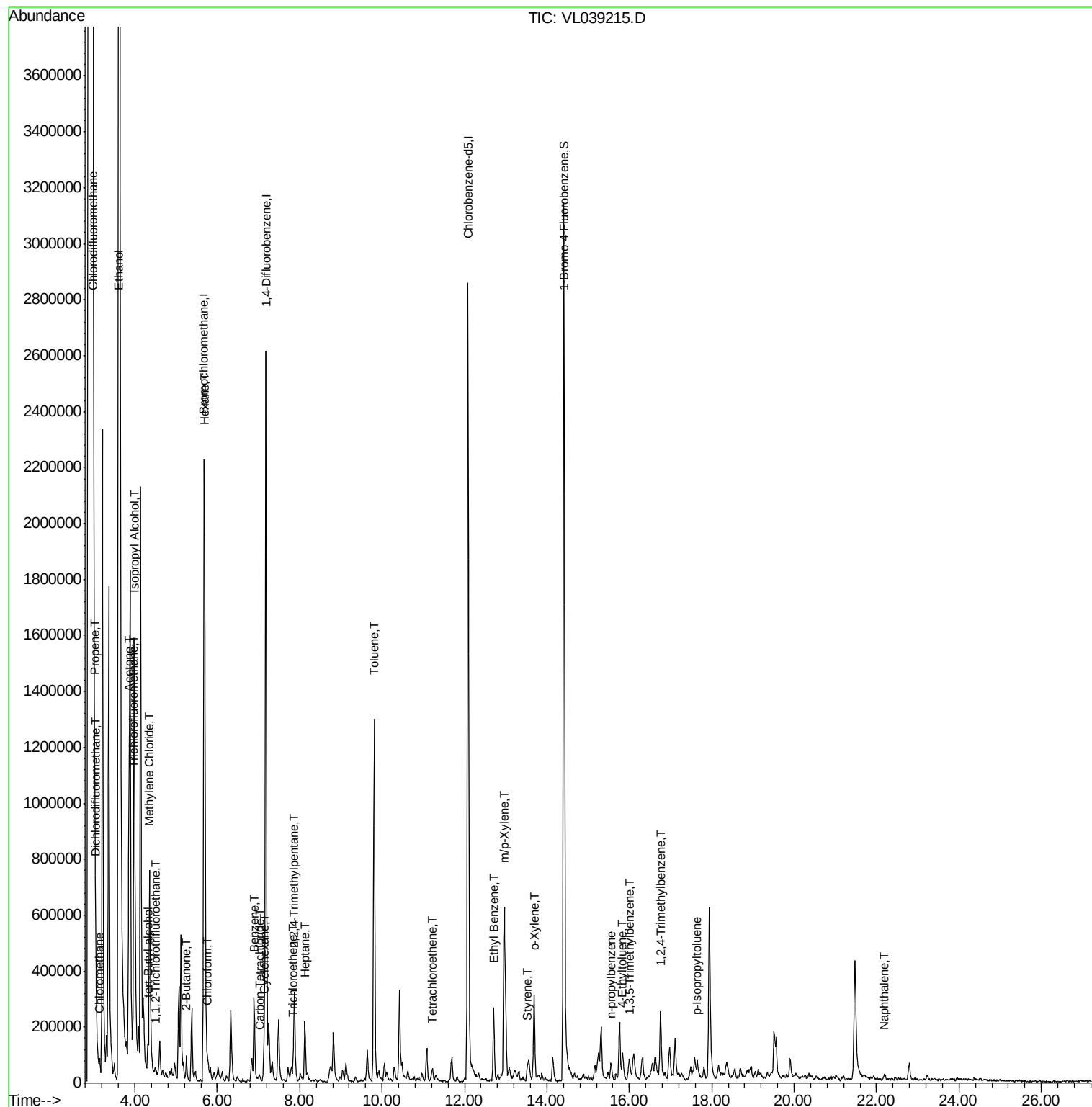
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060722\
Data File : VL039215.D
Acq On : 7 Jun 2022 18:54
Operator : SY/AP
Sample : N3187-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

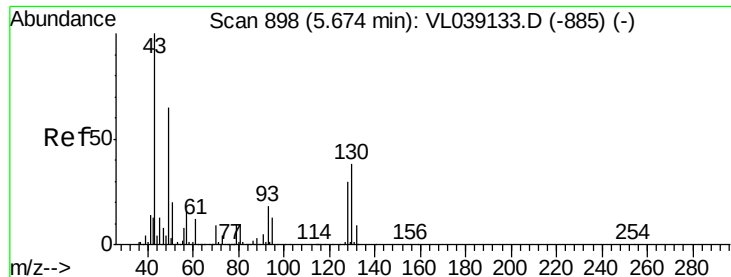
Instrument :
MSVOA_L
ClientSampleId :
IA-1B

Quant Time: Jun 08 05:59:13 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 18:54

Tot Ion:

Ion Ratio

49 100

128 46.

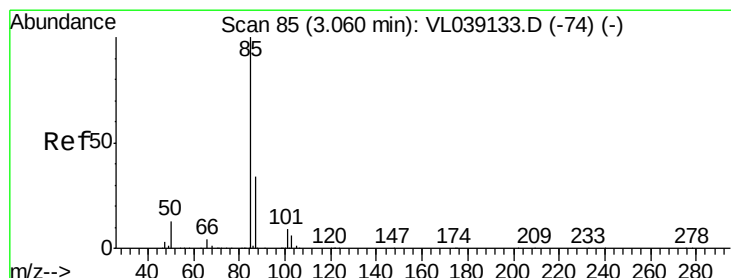
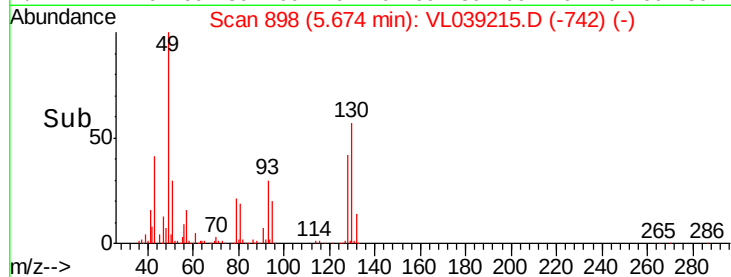
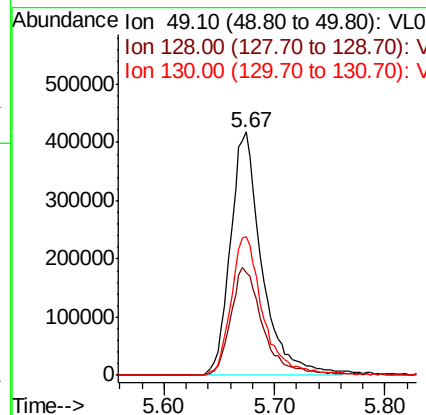
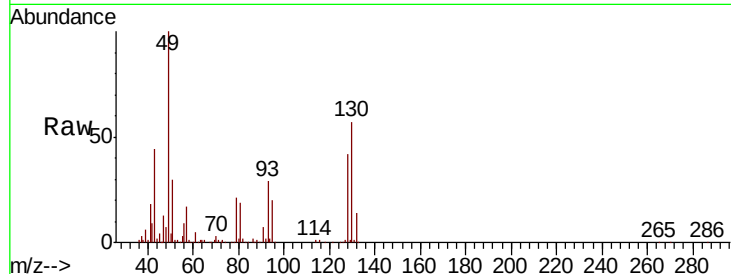
130 58.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#2

Dichlorodifluoromethane

Concen: 0.729 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL039215.D

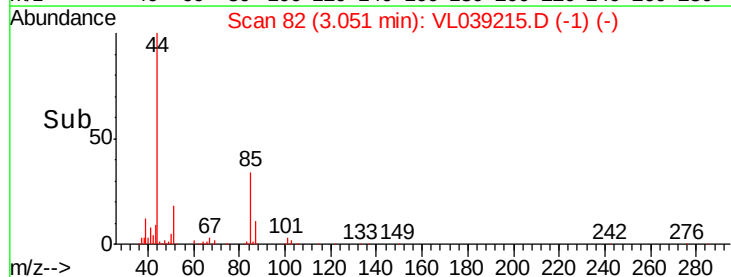
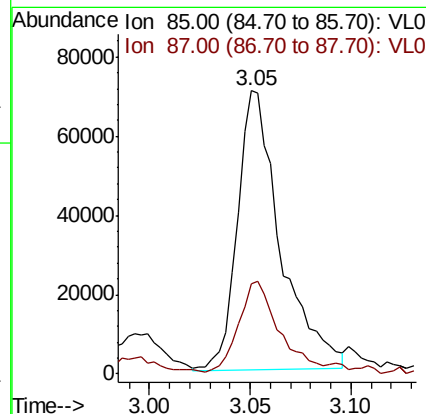
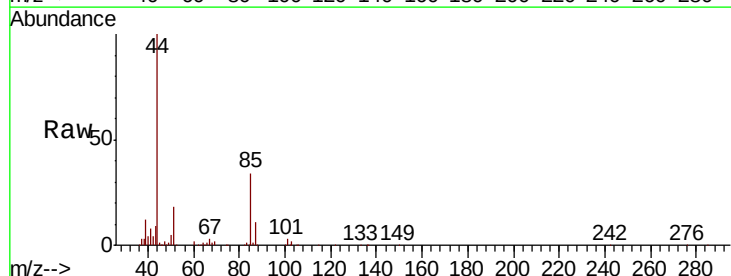
Acq: 7 Jun 2022 18:54

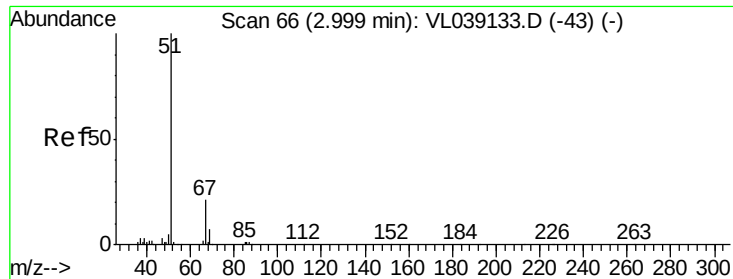
Tgt Ion: 85 Resp: 106162

Ion Ratio Lower Upper

85 100

87 31.8 26.9 40.3





#3

Chlorodifluoromethane

Concen: 13.386 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 18:54

Tot Ion:

Ion Ratio

51 100

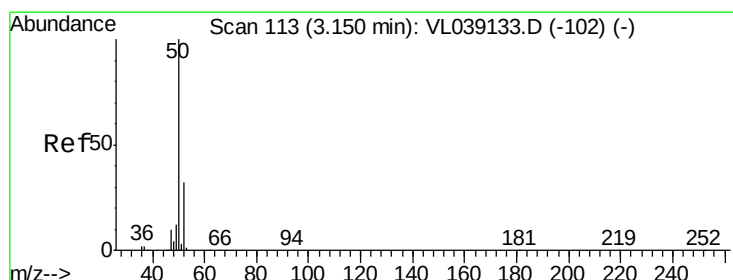
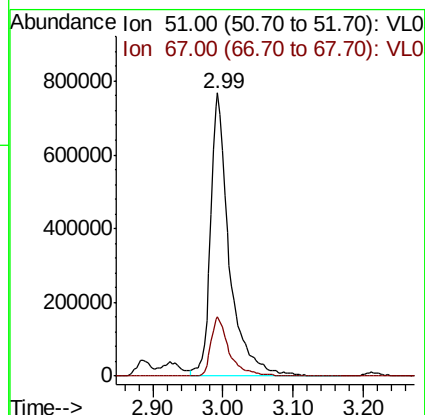
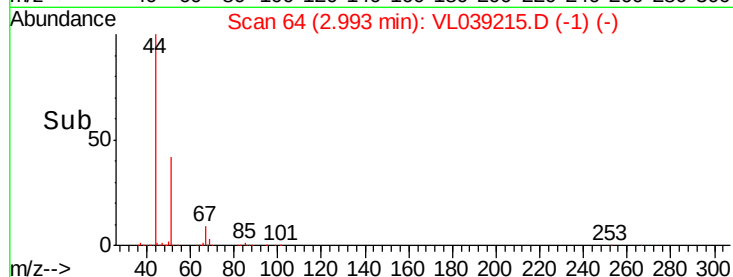
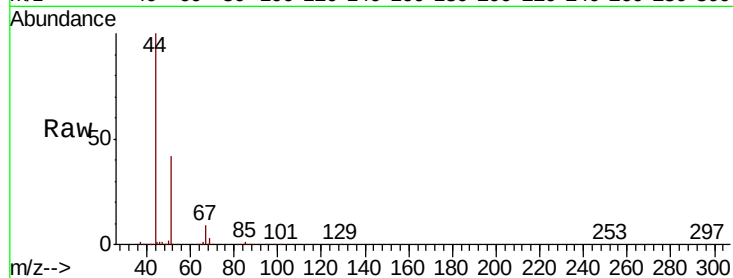
67 20.

Manual Integrations

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Supervised By :Mahesh Dadoda 06/10/2022



#4

Chloromethane

Concen: 0.554 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.01 min

Lab File: VL039215.D

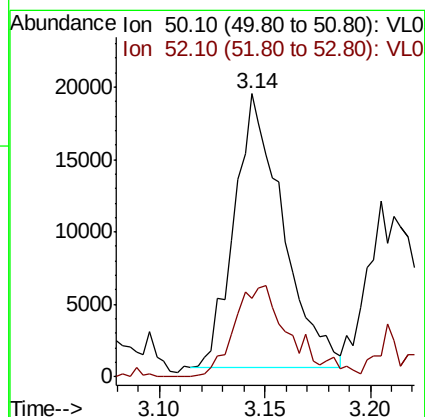
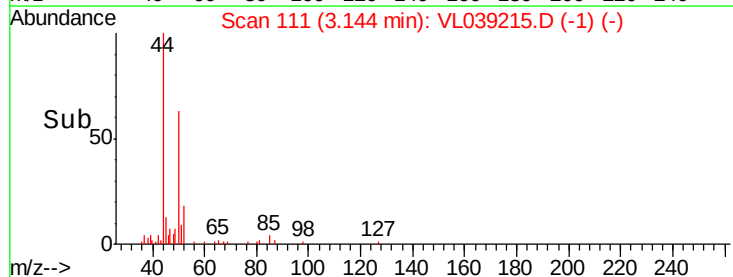
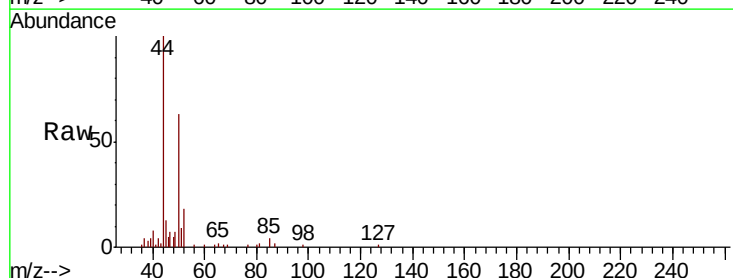
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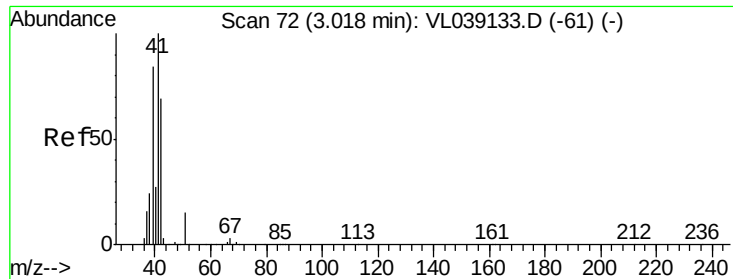
Tgt Ion: 50 Resp: 30012

Ion Ratio Lower Upper

50 100

52 28.8 25.9 38.9





#9

Propene

Concen: 3.959 ppbv m

RT: 3.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 18:54

Tot Ion:

Ion Ratio

41 100

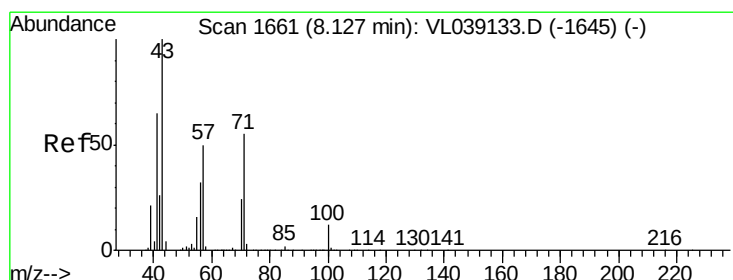
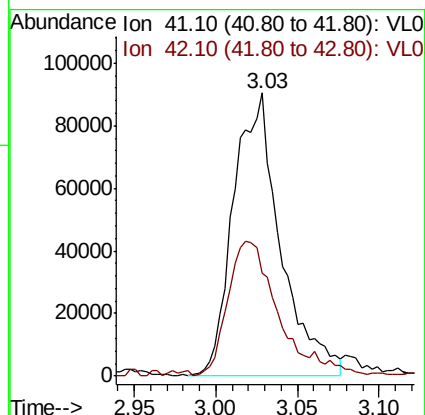
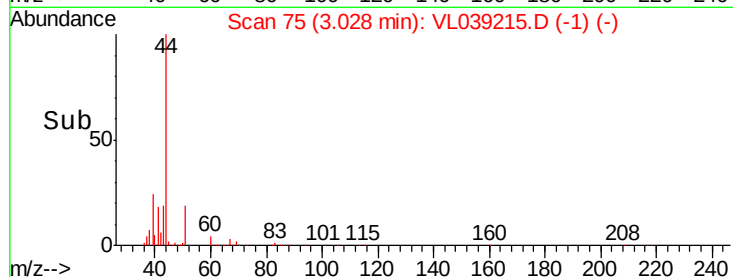
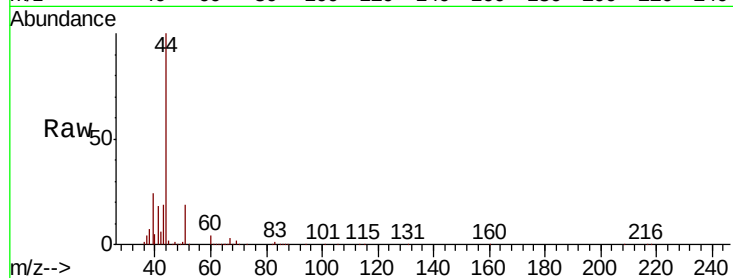
42 290.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#10

Heptane

Concen: 0.748 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL039215.D

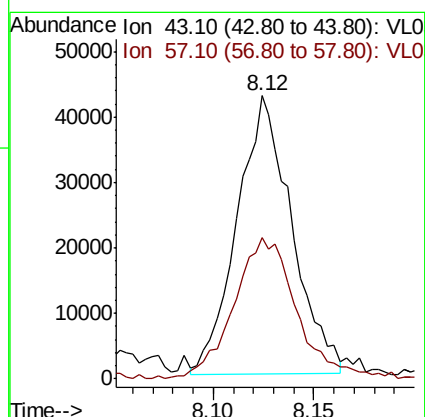
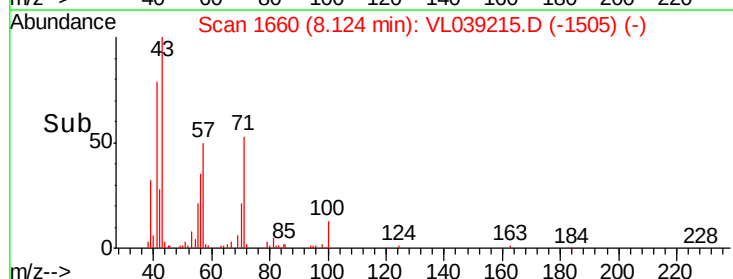
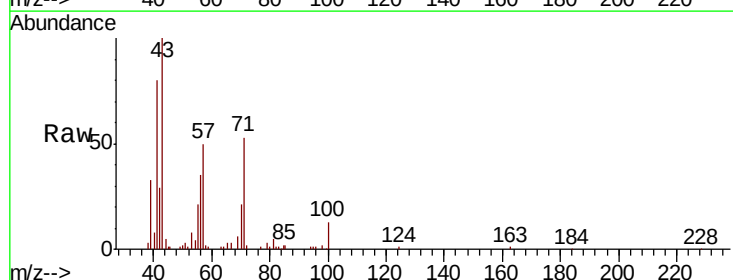
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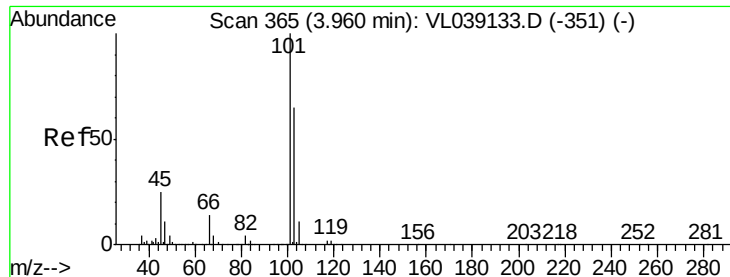
Tgt Ion: 43 Resp: 80254

Ion Ratio Lower Upper

43 100

57 56.9 41.4 62.2



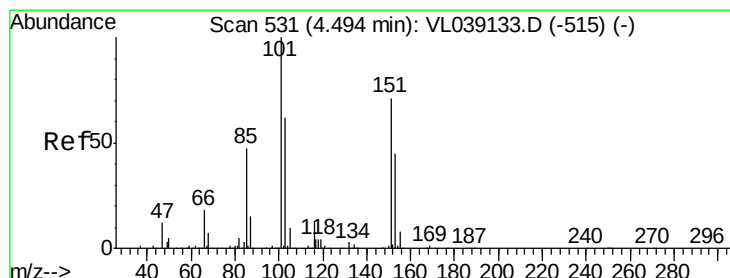
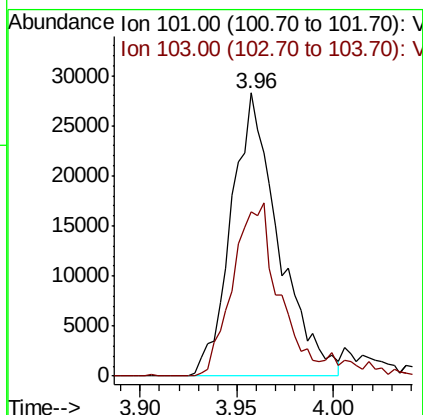
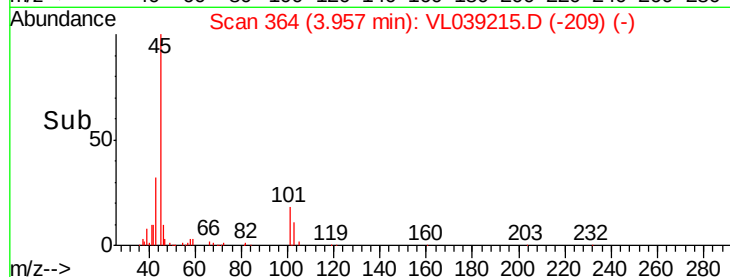
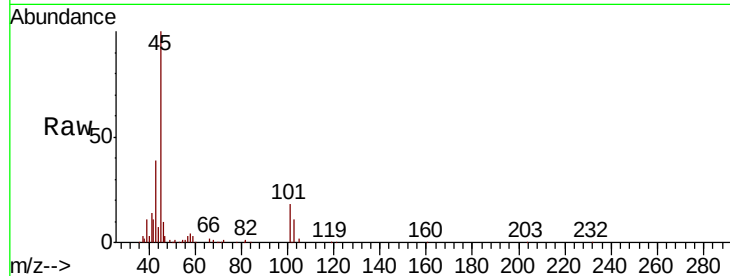


#11
 Trichlorofluoromethane
 Concen: 0.365 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Jun 2022 18:54

Tot Ion:1
 Ion Rati
 101 100
 103 58.

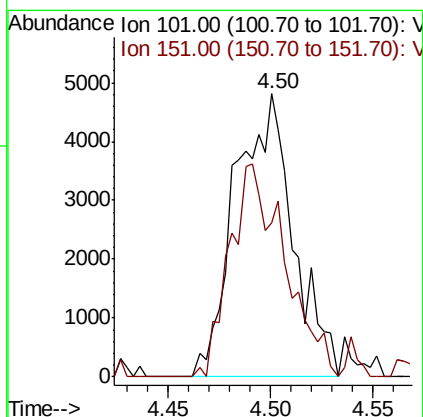
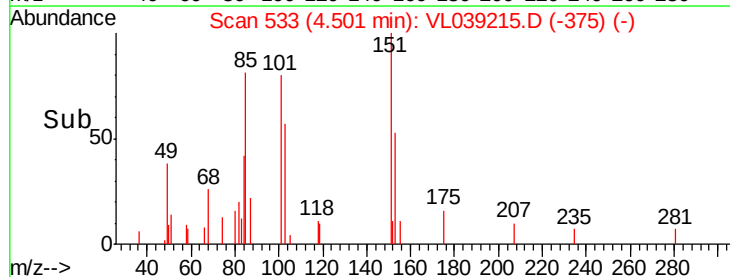
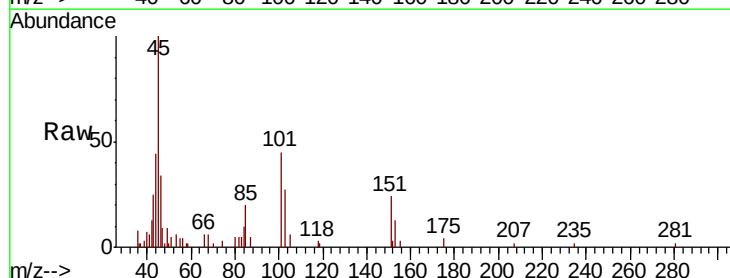
Manual Integrations
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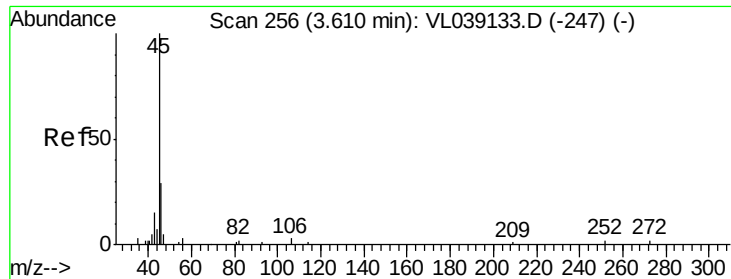
Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.109 ppbv m
 RT: 4.50 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VL039215.D
 Acq: 7 Jun 2022 18:54

Tgt Ion:101 Resp: 9468
 Ion Ratio Lower Upper
 101 100
 151 76.0 59.4 89.0





#13

Ethanol

Concen: 5381.981 ppbv

RT: 3.62

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 18:54

Tot Ion:

Ion Ratio

45 100

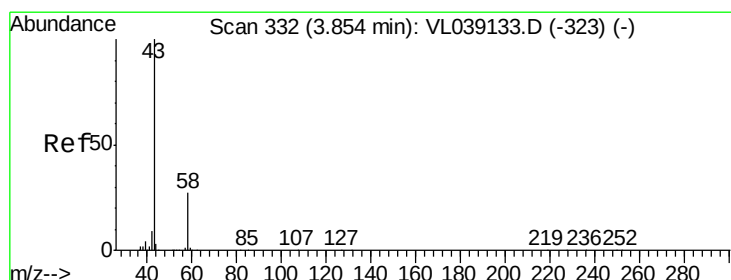
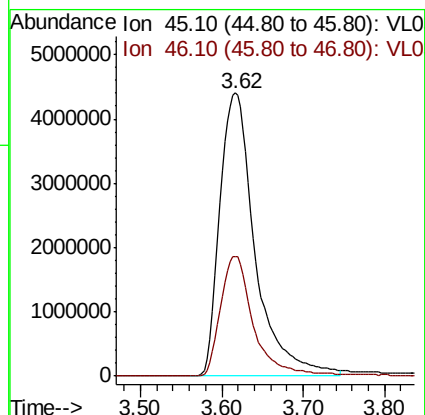
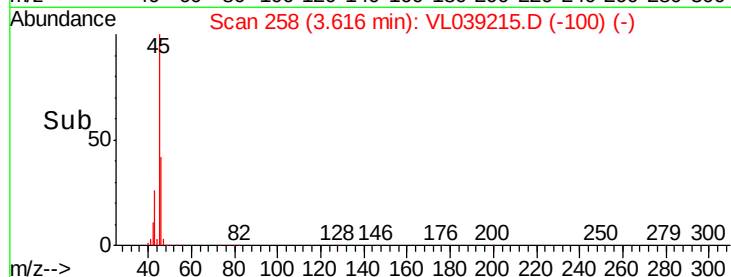
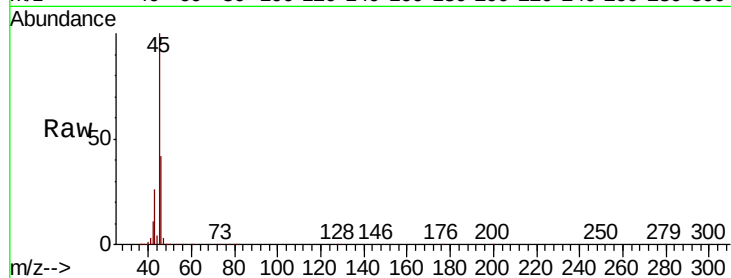
46 40.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#15

Acetone

Concen: 12.928 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL039215.D

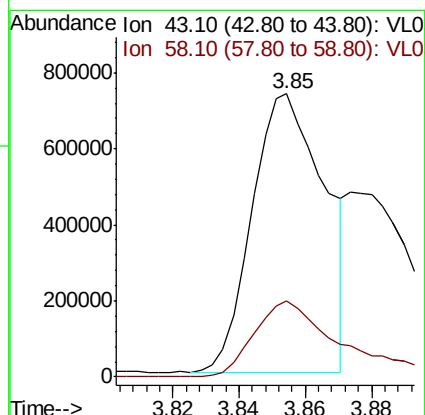
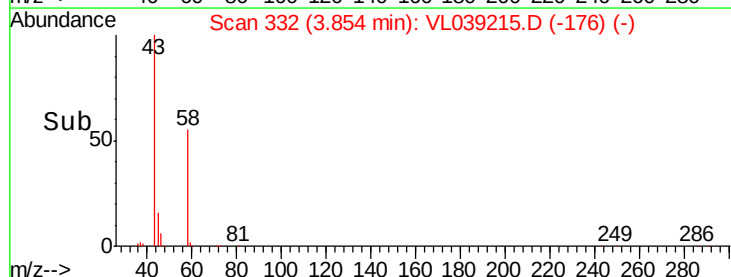
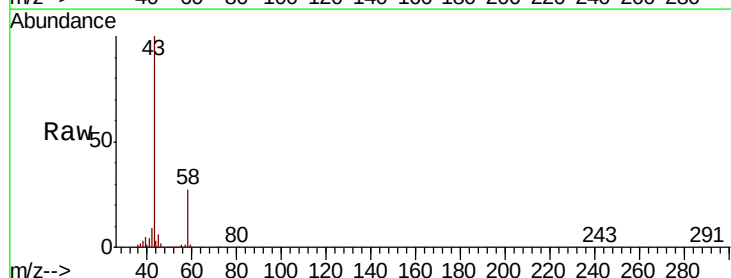
Acq: 7 Jun 2022 18:54

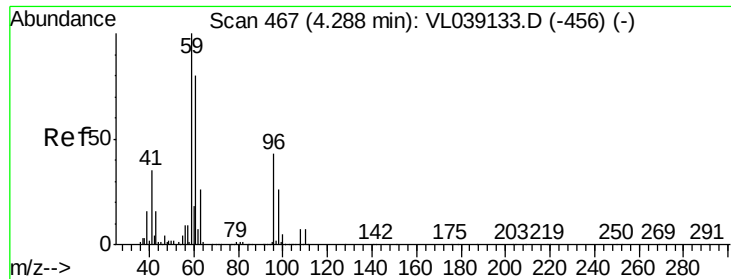
Tgt Ion: 43 Resp: 1116115

Ion Ratio Lower Upper

43 100

58 34.7 22.5 33.7#





#17

tert-Butyl alcohol

Concen: 0.262 ppbv m

RT: 4.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Jun 2022 18:54

Tot Ion:

Ion Ratio

59 100

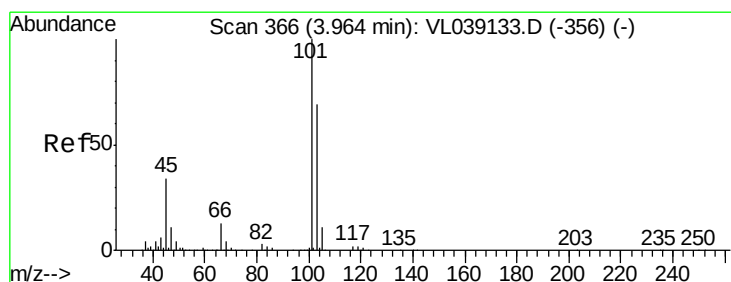
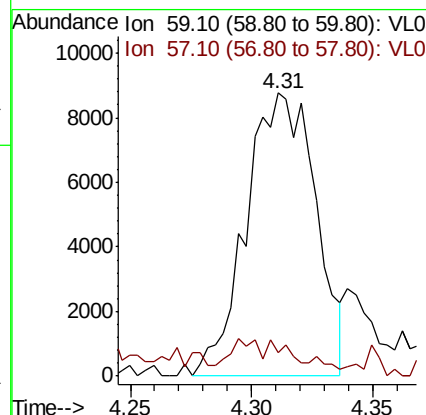
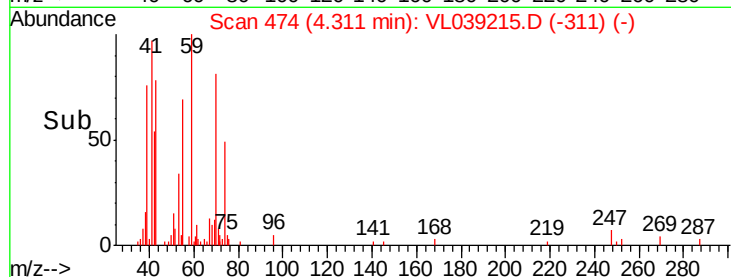
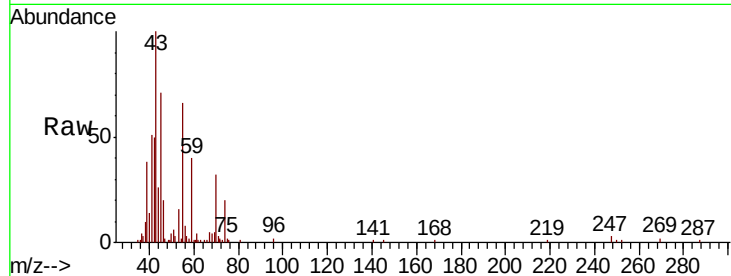
57 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#19

Isopropyl Alcohol

Concen: 50.462 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.02 min

Lab File: VL039215.D

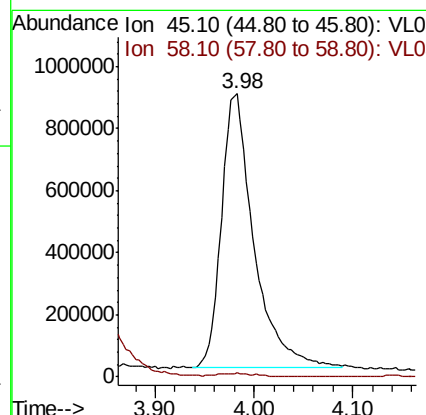
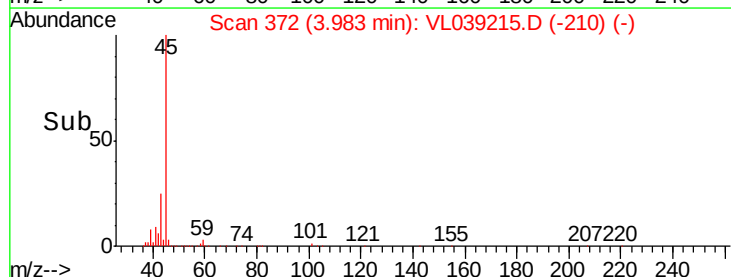
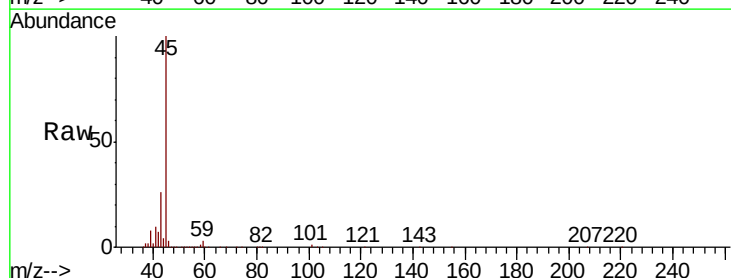
Acq: 7 Jun 2022 18:54

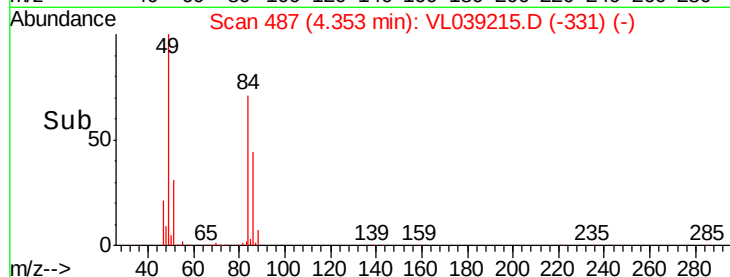
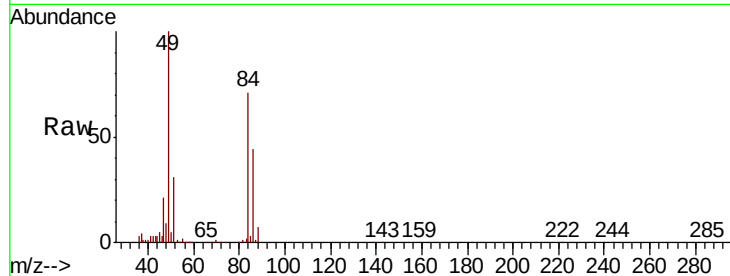
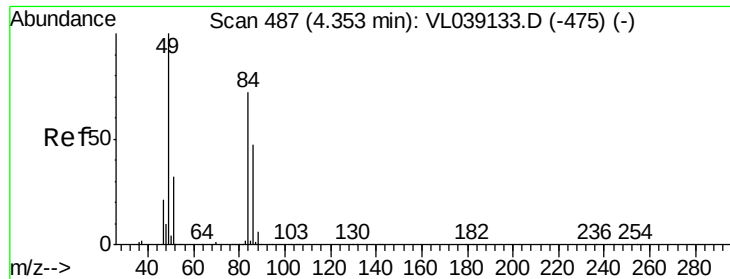
Tgt Ion: 45 Resp: 2043273

Ion Ratio Lower Upper

45 100

58 1.9 1.8 2.8



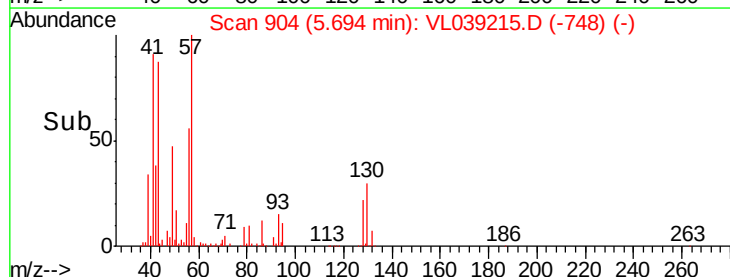
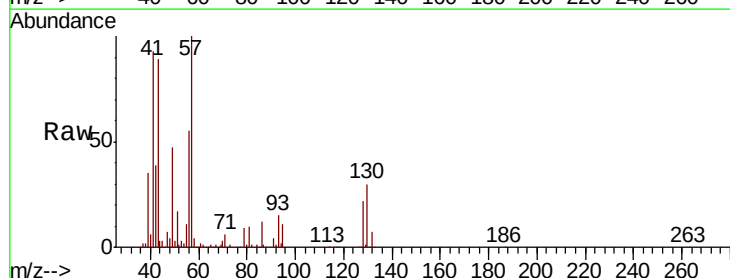
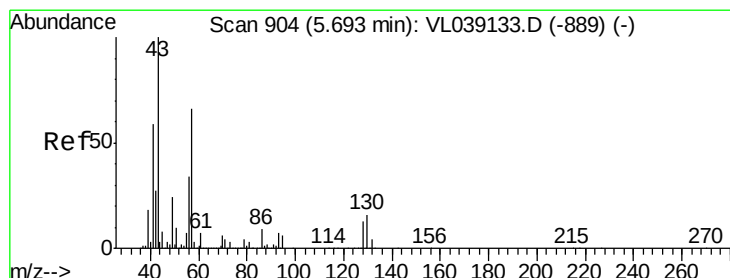
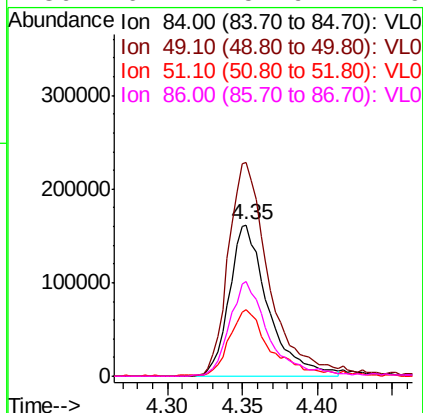


#20
Methvlene Chloride
Concen: 8.053 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Jun 2022 18:54

Tot Ion:
Ion Ratio
84 100
49 140.
51 43.
86 62.1 51.9 77.9

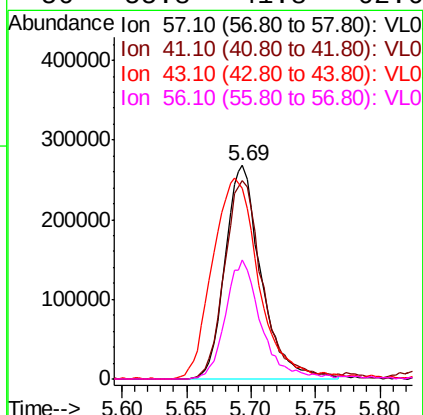
Manual Integrations
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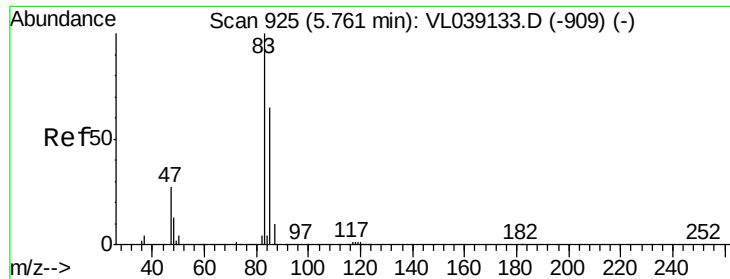
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#26
Hexane
Concen: 6.088 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL039215.D
Acq: 7 Jun 2022 18:54

Tgt Ion: 57 Resp: 520589
Ion Ratio Lower Upper
57 100
41 100.3 72.4 108.6
43 122.7 187.0 280.6#
56 55.8 41.8 62.6



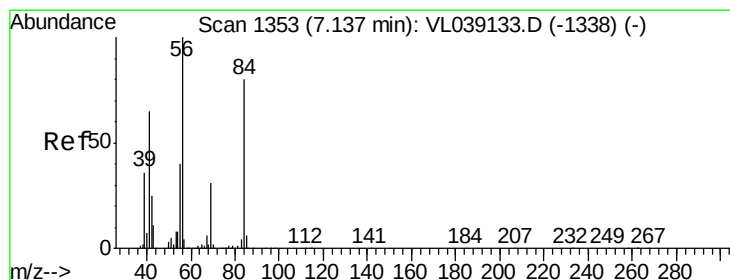
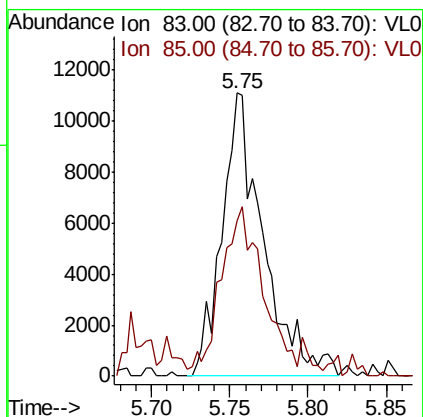
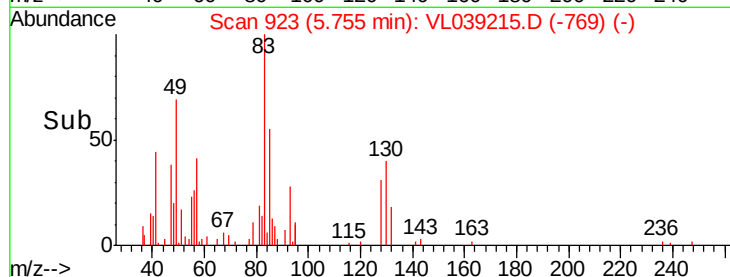
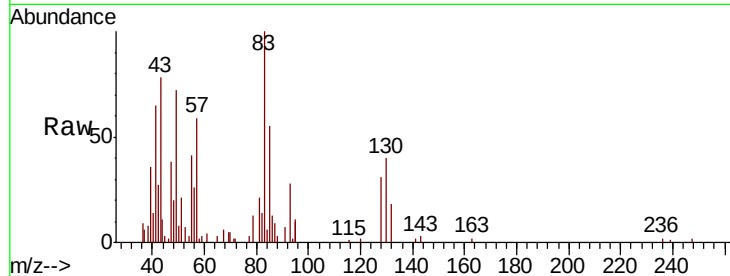


#29
Chloroform
Concen: 0.140 ppbv m
RT: 5.75
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Jun 2022 18:54

Tot Ion:
Ion Ratio
83 100
85 54.

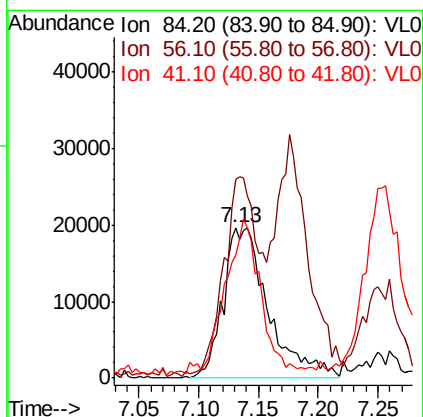
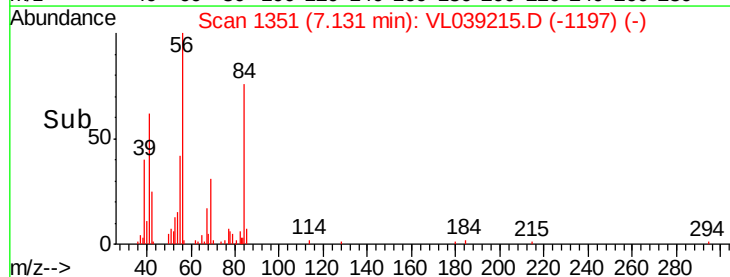
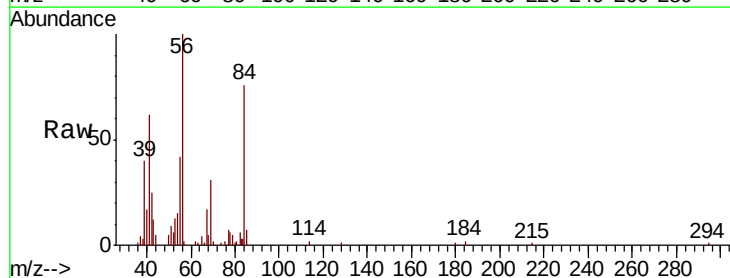
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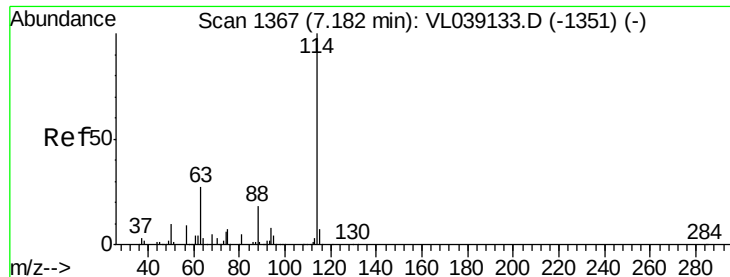
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#30
Cyclohexane
Concen: 0.719 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL039215.D
Acq: 7 Jun 2022 18:54

Tgt Ion: 84 Resp: 51643
Ion Ratio Lower Upper
84 100
56 92.4 110.6 165.8#
41 86.7 68.9 103.3



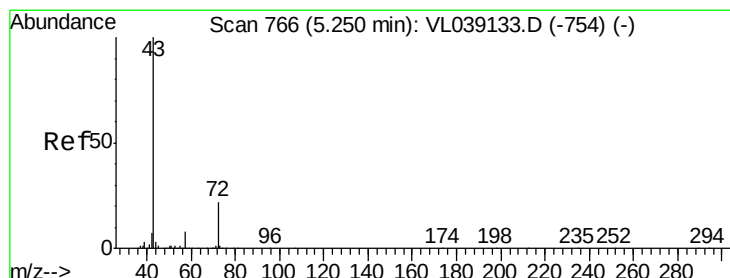
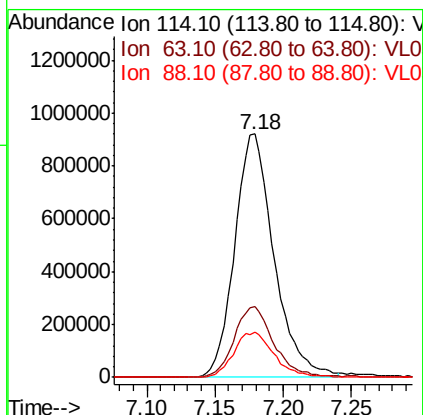
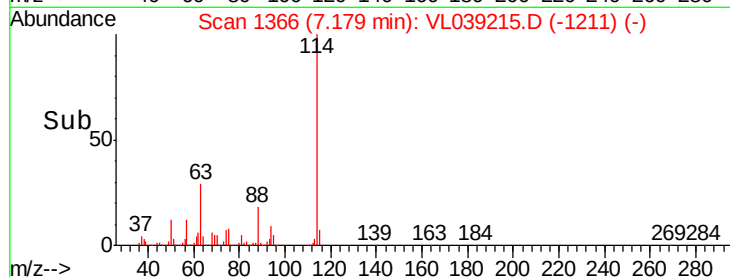
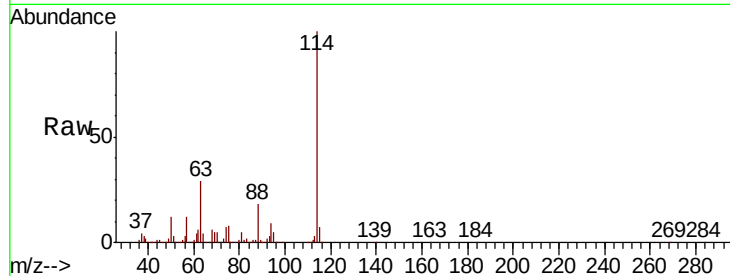


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Jun 2022 18:54

Tot Ion:1
 Ion Rati
 114 100
 63 29.
 88 19.

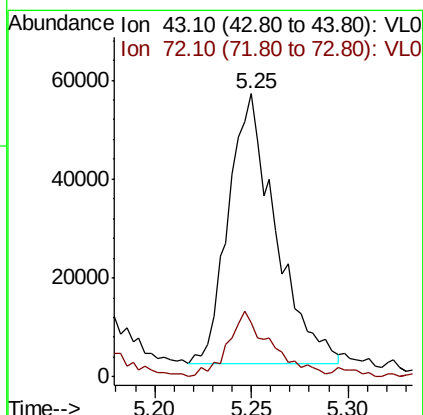
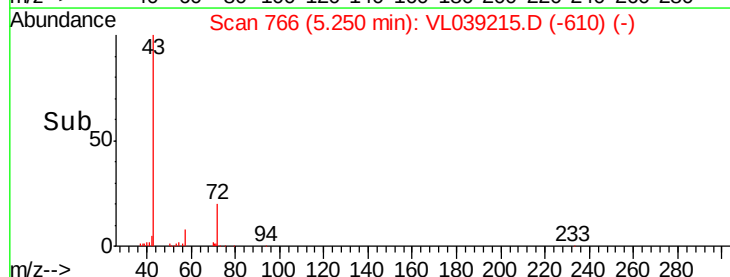
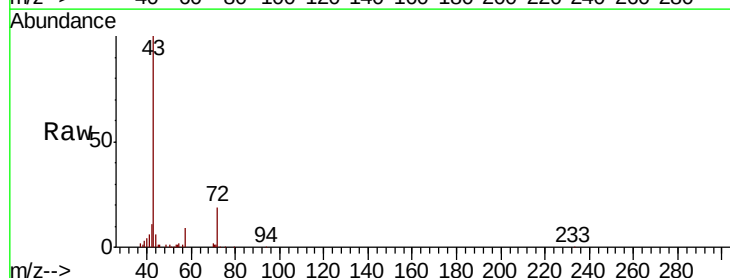
Manual Integrations
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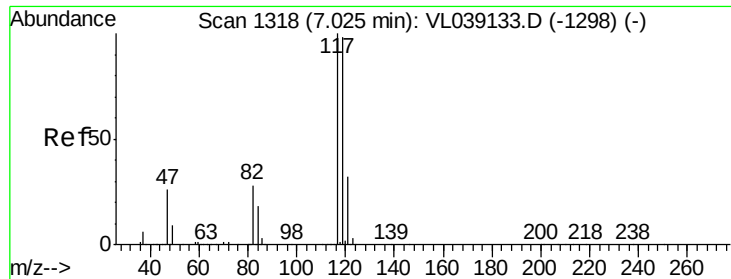
Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022



#34
 2-Butanone
 Concen: 0.921 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.00 min
 Lab File: VL039215.D
 Acq: 7 Jun 2022 18:54

Tgt Ion: 43 Resp: 92320
 Ion Ratio Lower Upper
 43 100
 72 24.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.090 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

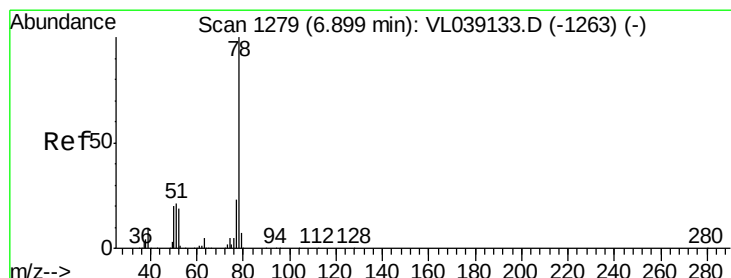
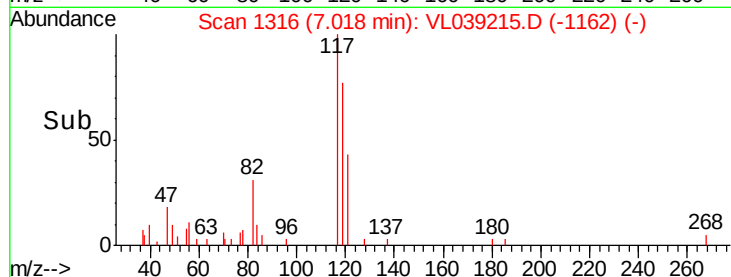
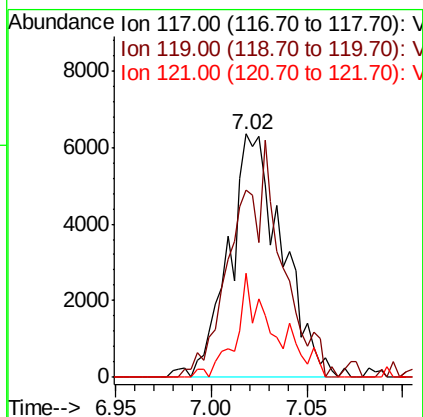
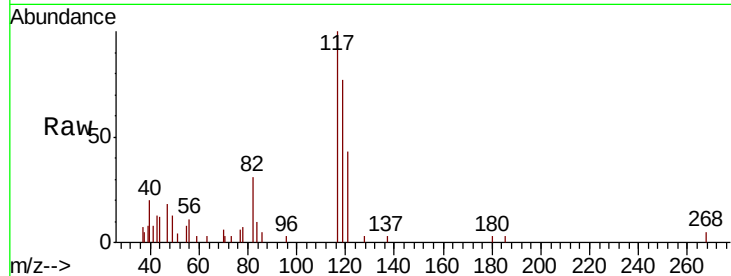
Lab File: ClientSampleId:

Acq: 7 Jun 2022 18:54

Tot Ion:1
Ion Rati
117 100
119 77.
121 42.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#36

Benzene

Concen: 1.582 ppbv

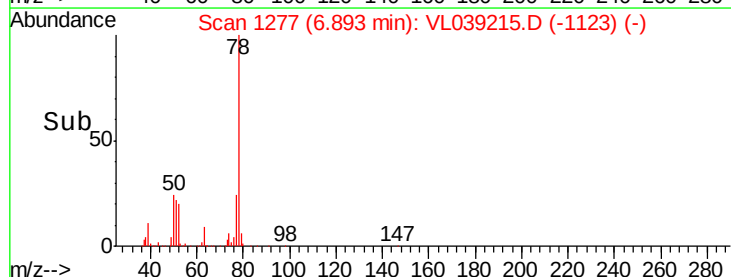
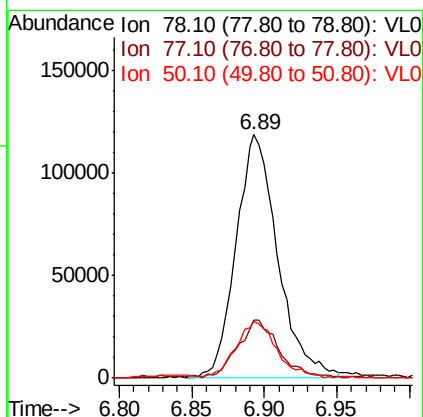
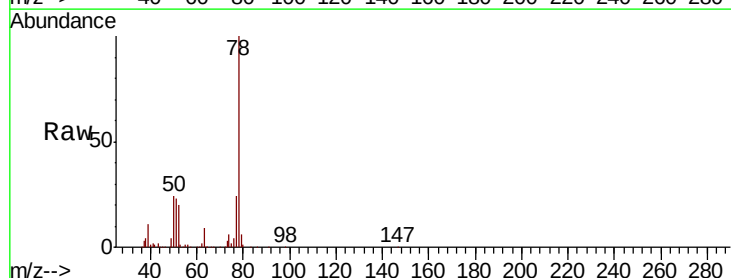
RT: 6.89 min Scan# 1277

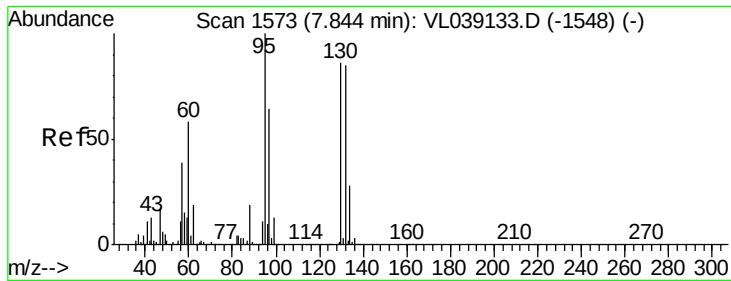
Delta R.T. -0.01 min

Lab File: VL039215.D

Acq: 7 Jun 2022 18:54

Tgt Ion: 78 Resp: 236966
Ion Ratio Lower Upper
78 100
77 23.7 18.6 27.8
50 22.7 15.8 23.8



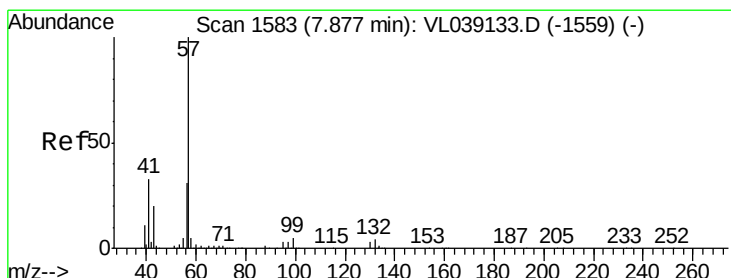
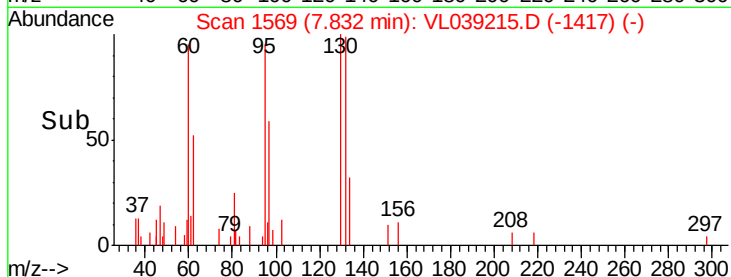
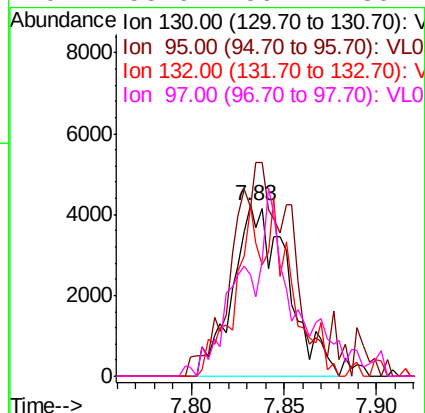
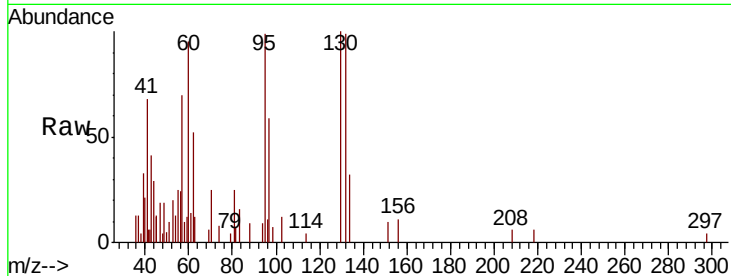


#38
 Trichloroethene
 Concen: 0.128 ppbv m
 RT: 7.83
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Jun 2022 18:54

Tot Ion: 1
 Ion Ratio
 130 100
 95 98.
 132 99.
 97 58.9 59.4 89.2#

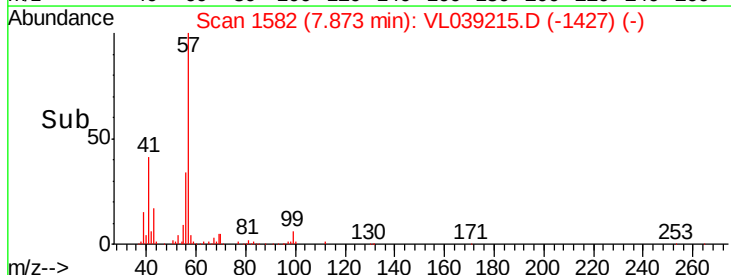
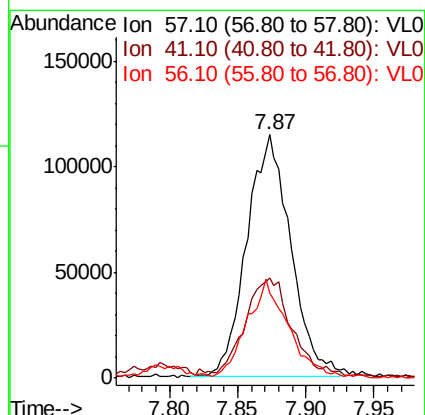
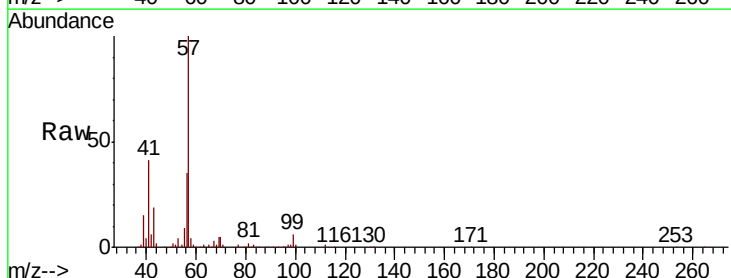
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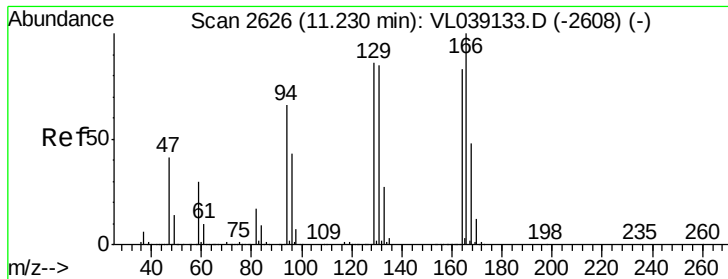
Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022



#44
 2,2,4-Trimethylpentane
 Concen: 0.983 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VL039215.D
 Acq: 7 Jun 2022 18:54

Tgt Ion: 57 Resp: 257463
 Ion Ratio Lower Upper
 57 100
 41 45.2 26.2 39.4#
 56 38.7 24.7 37.1#





#52

Tetrachloroethene

Concen: 0.125 ppbv m

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 18:54

Tot Ion:1

Ion Rati

164 100

166 97.

129 97.

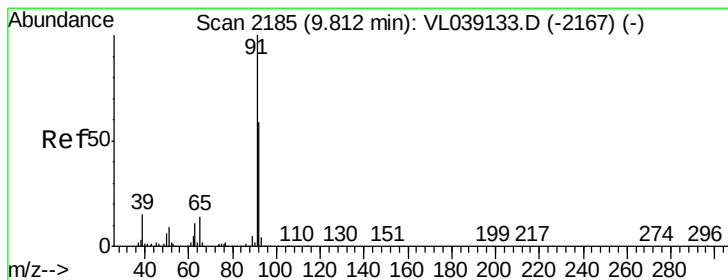
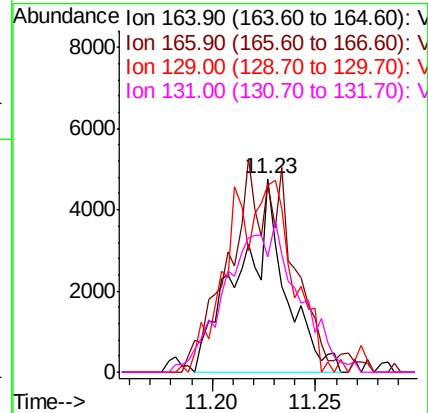
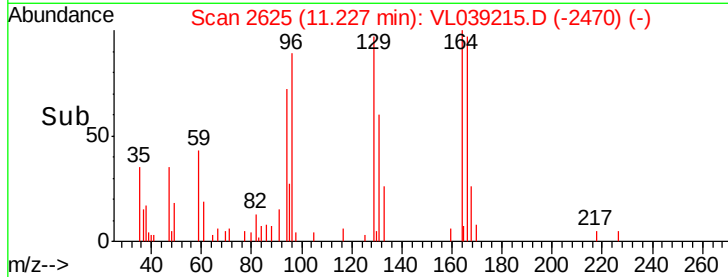
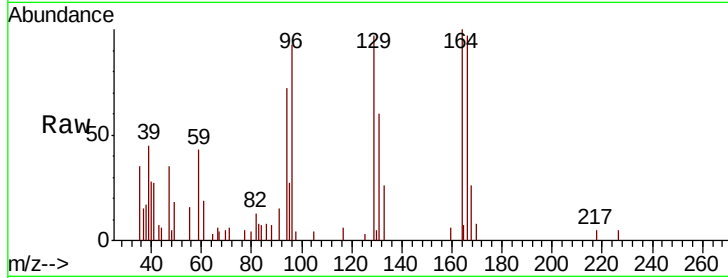
131 59.8 82.1 123.1#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#53

Toluene

Concen: 5.490 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL039215.D

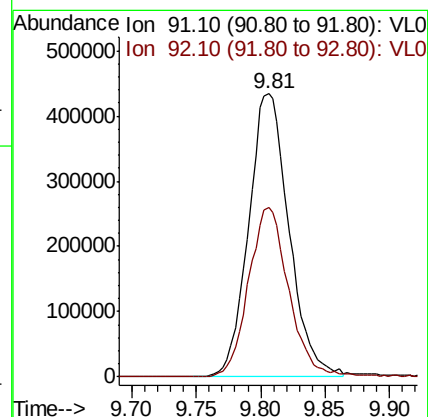
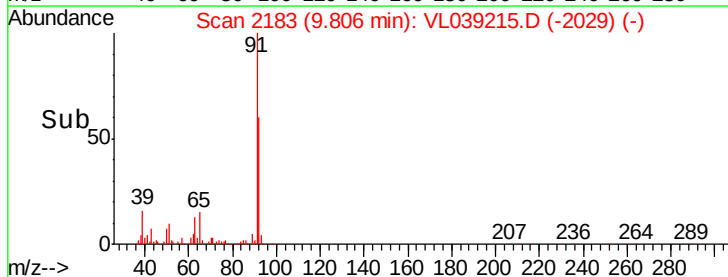
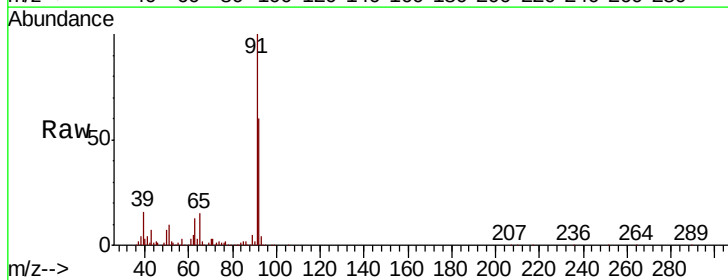
Acq: 7 Jun 2022 18:54

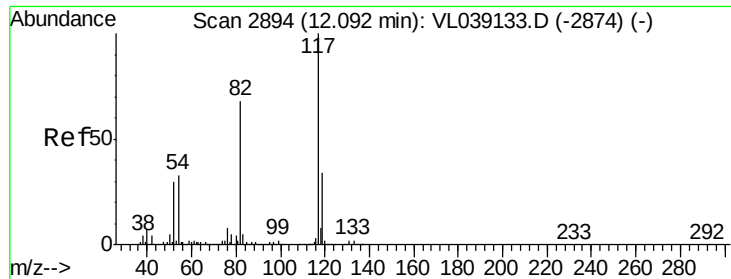
Tgt Ion: 91 Resp: 946729

Ion Ratio Lower Upper

91 100

92 59.4 48.1 72.1



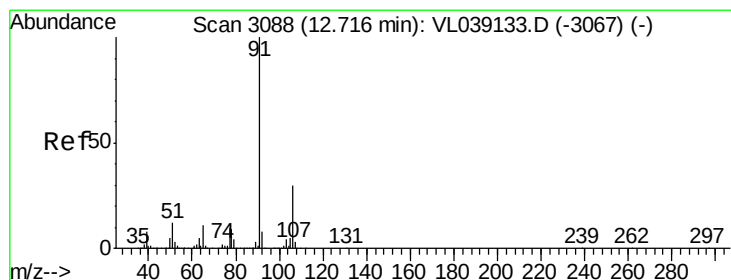
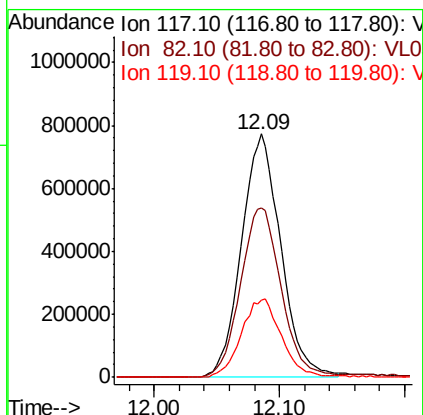
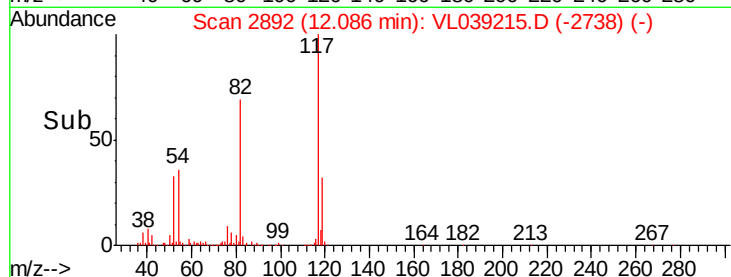
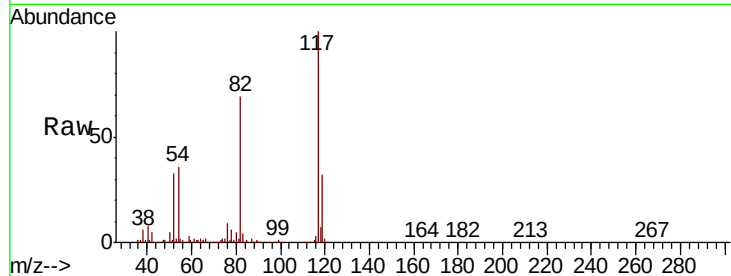


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Jun 2022 18:54

Tot Ion: 1
Ion Ratio
117 100
82 74.
119 33.

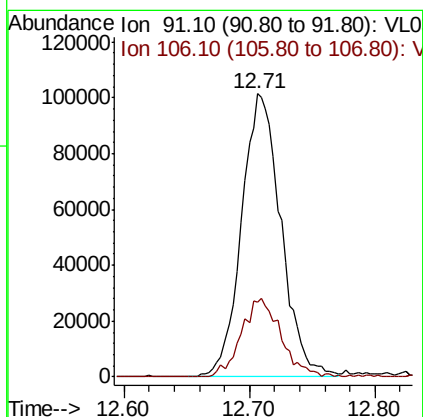
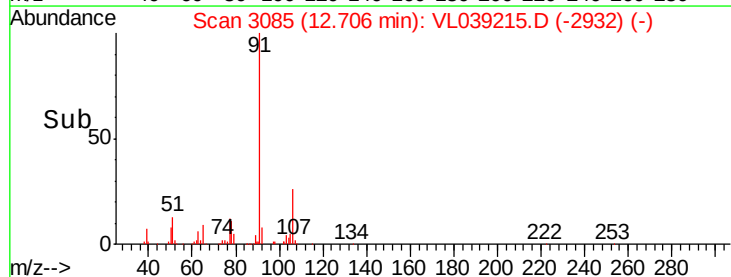
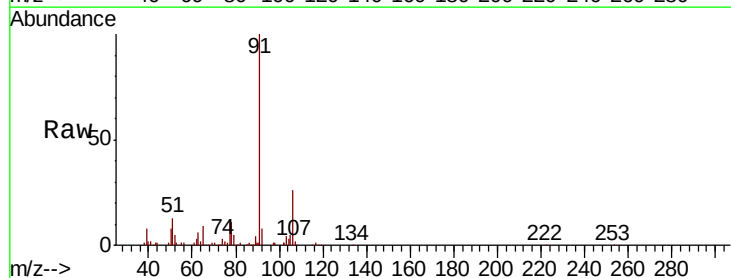
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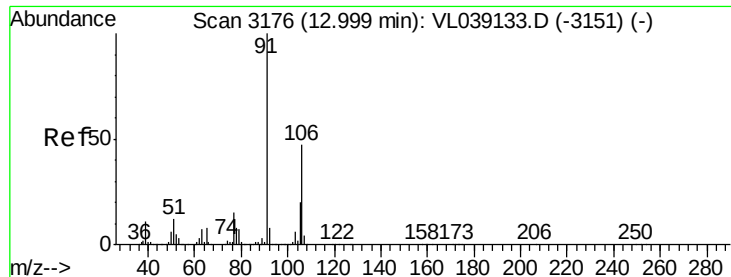
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#58
Ethyl Benzene
Concen: 0.952 ppbv
RT: 12.71 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL039215.D
Acq: 7 Jun 2022 18:54

Tgt Ion: 91 Resp: 221386
Ion Ratio Lower Upper
91 100
106 26.3 24.2 36.4



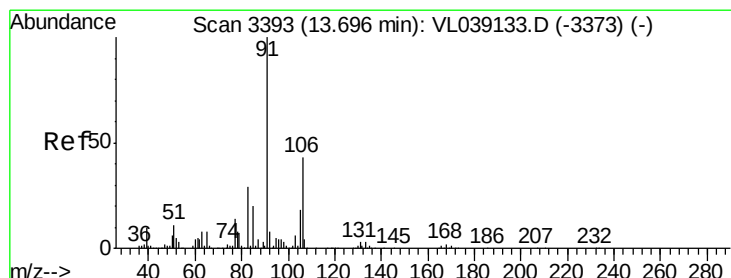
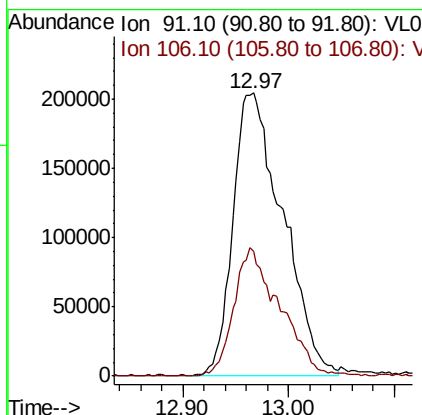
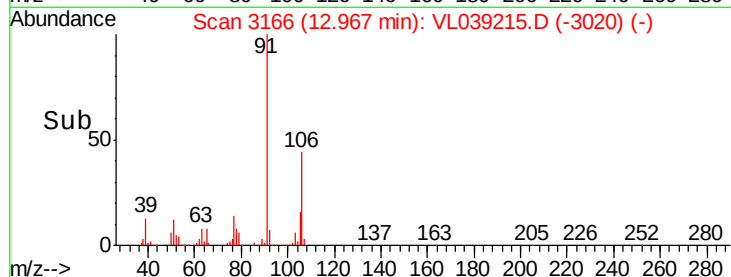
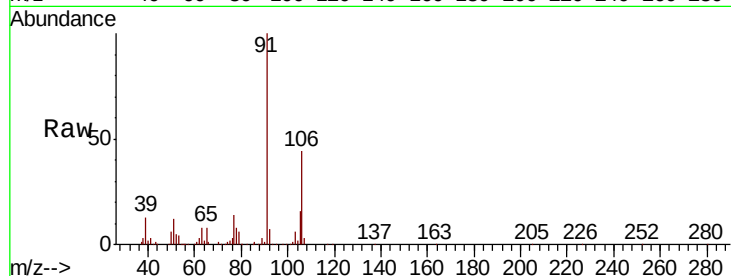


#59
m/p-Xylene
Concen: 3.256 ppbv
RT: 12.97
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Jun 2022 18:54

Tot Ion:
Ion Ratio
91 100
106 42.

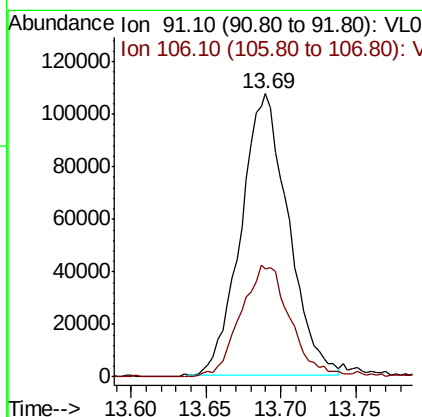
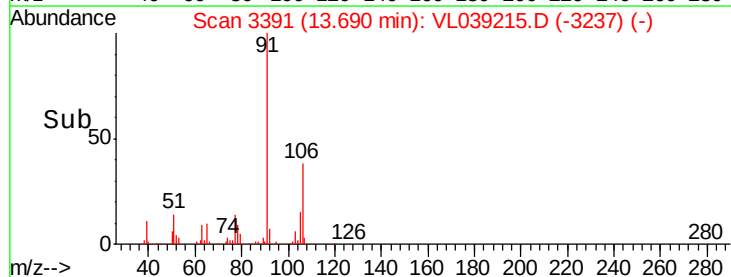
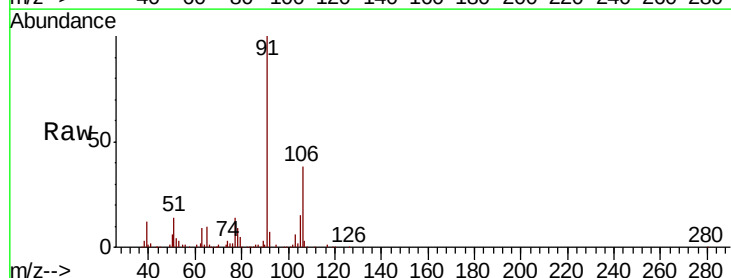
Manual Integrations
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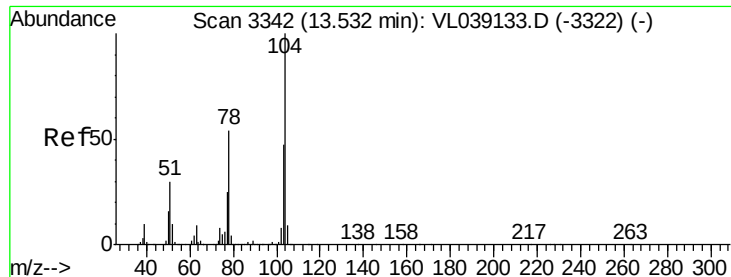
Reviewed By :Semsettin Yesilyurt 06/10/2022
Supervised By :Mahesh Dadoda 06/10/2022



#60
o-Xylene
Concen: 1.221 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL039215.D
Acq: 7 Jun 2022 18:54

Tgt Ion: 91 Resp: 234797
Ion Ratio Lower Upper
91 100
106 42.5 22.3 66.9





#61

Stvrene

Concen: 0.255 ppbv m

RT: 13.52

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 18:54

Tot Ion:1

Ion Rati

104 100

78 61.

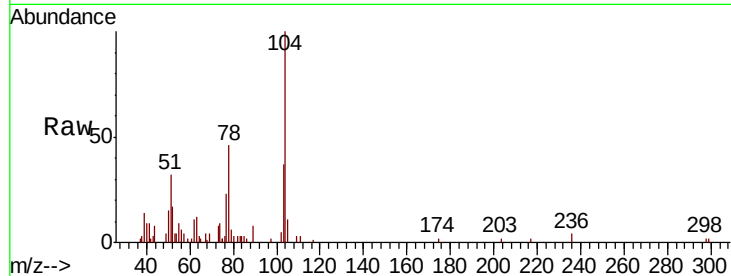
103 49.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/10/2022

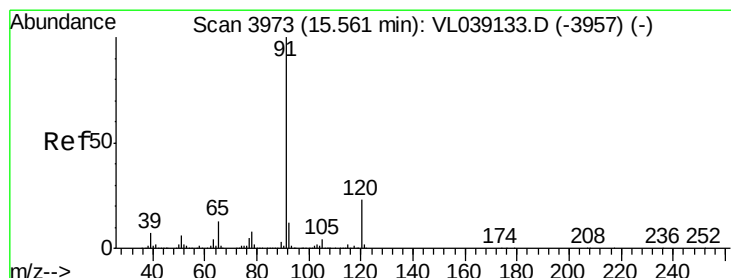
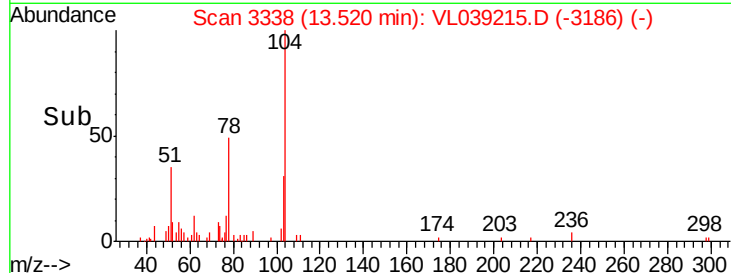
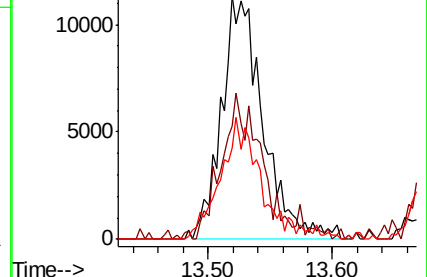
Supervised By :Mahesh Dadoda 06/10/2022



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#64

n-propylbenzene

Concen: 0.160 ppbv m

RT: 15.56 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VL039215.D

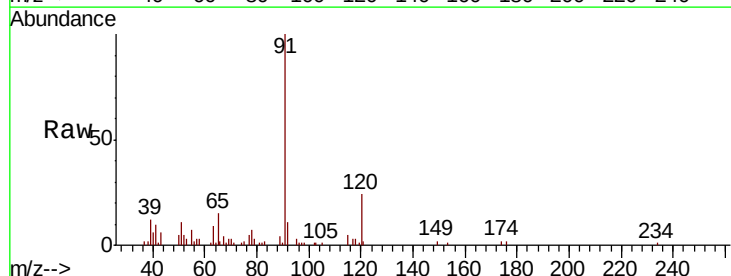
Acq: 7 Jun 2022 18:54

Tgt Ion:120 Resp: 11214

Ion Ratio Lower Upper

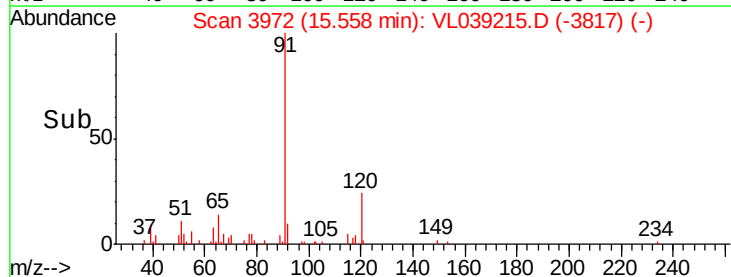
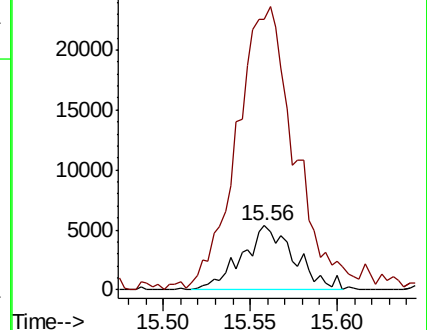
120 100

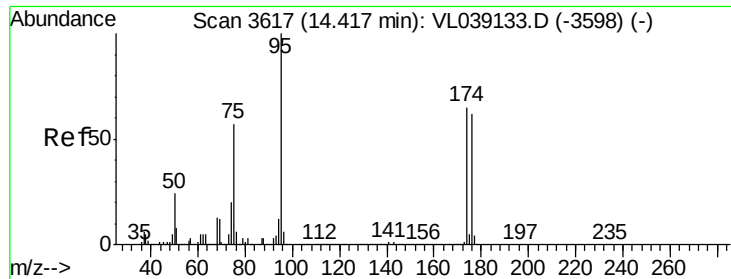
91 504.0 388.4 582.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



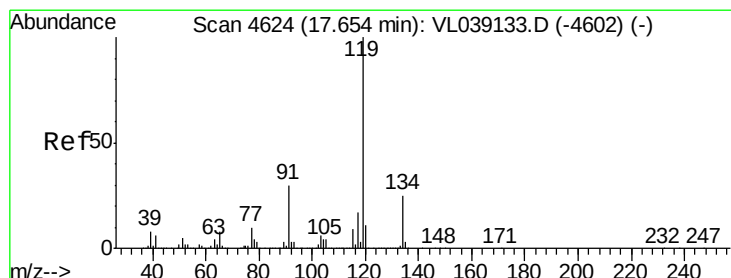
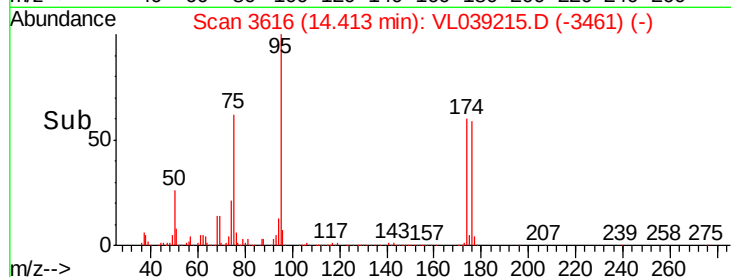
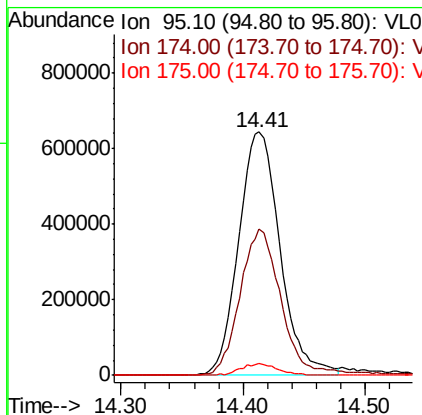
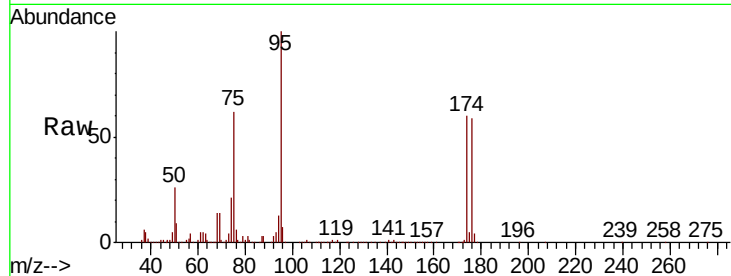


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.849 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Jun 2022 18:54

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

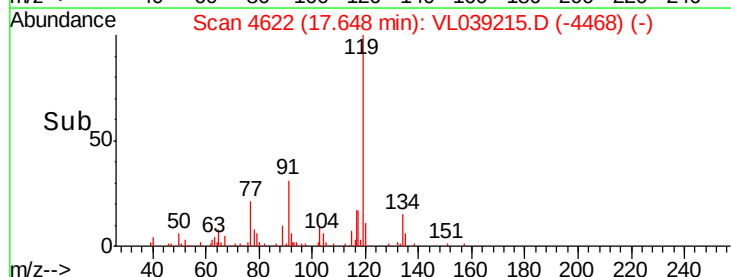
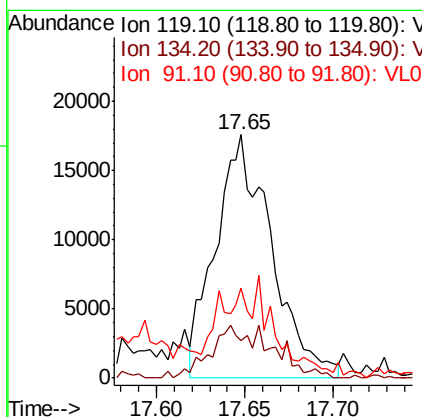
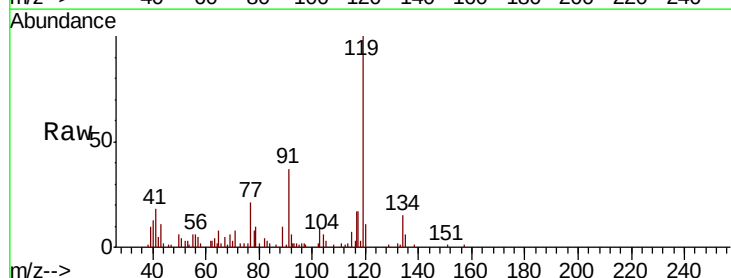
Manual Integrations
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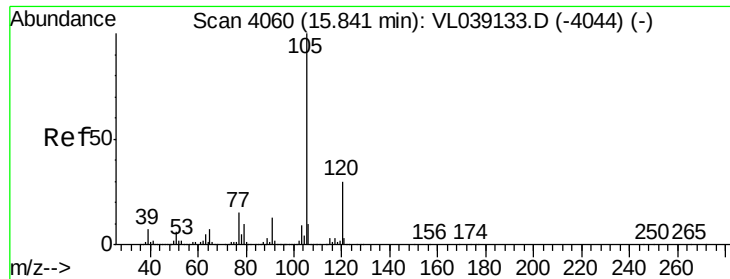
Reviewed By :Semsettin Yesilyurt 06/10/2022
 Supervised By :Mahesh Dadoda 06/10/2022



#69
 p-Isopropyltoluene
 Concen: 0.129 ppbv m
 RT: 17.65 min Scan# 4622
 Delta R.T. -0.01 min
 Lab File: VL039215.D
 Acq: 7 Jun 2022 18:54

Tgt Ion:119 Resp: 38777
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.4 30.6#
 91 0.0 24.2 36.4#





#72

4-Ethyltoluene

Concen: 0.271 ppbv

RT: 15.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Jun 2022 18:54

Tot Ion:1

Ion Rati

105 100

120 27.

91 18.

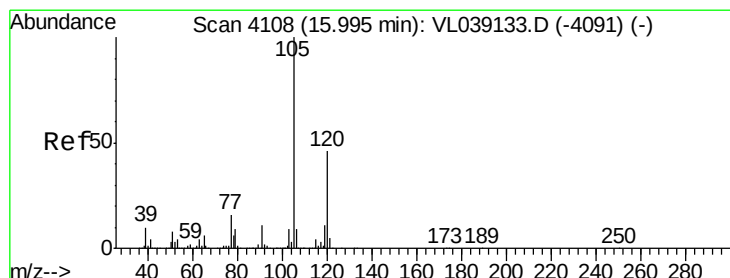
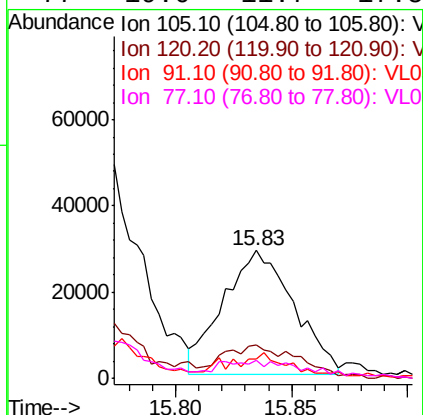
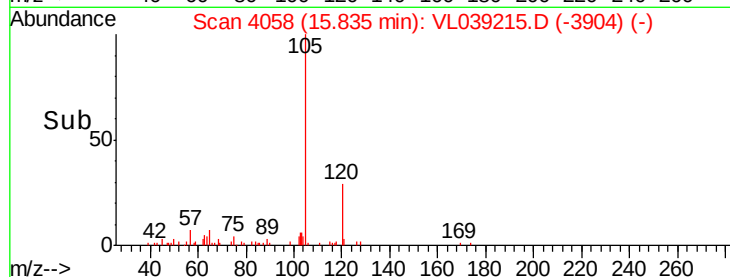
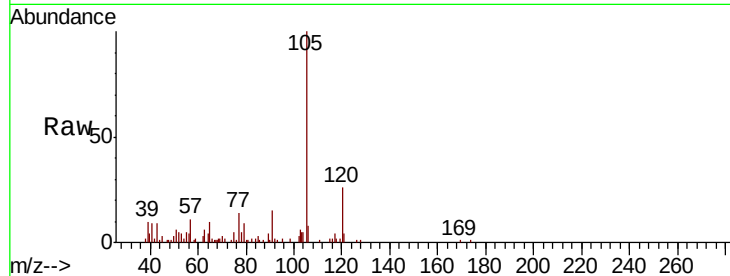
77 19.0 11.7 17.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/10/2022

Supervised By :Mahesh Dadoda 06/10/2022



#73

1,3,5-Trimethylbenzene

Concen: 0.240 ppbv m

RT: 15.99 min Scan# 4107

Delta R.T. -0.00 min

Lab File: VL039215.D

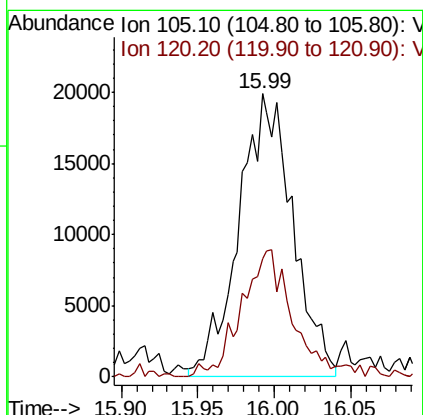
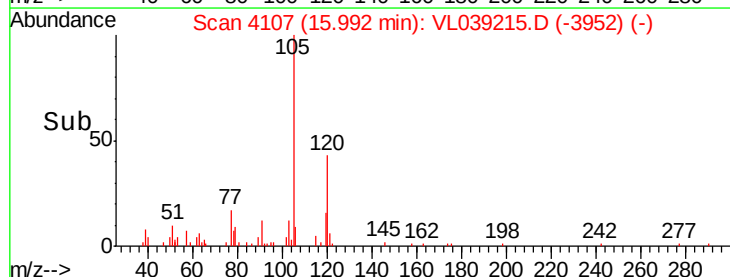
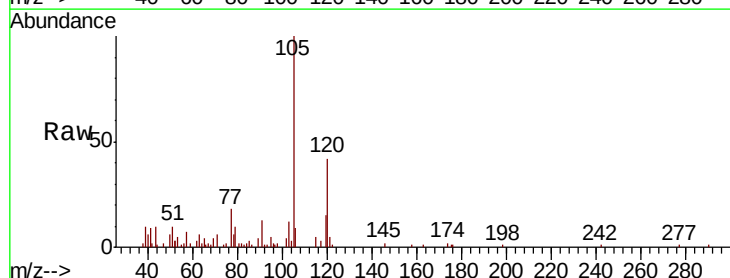
Acq: 7 Jun 2022 18:54

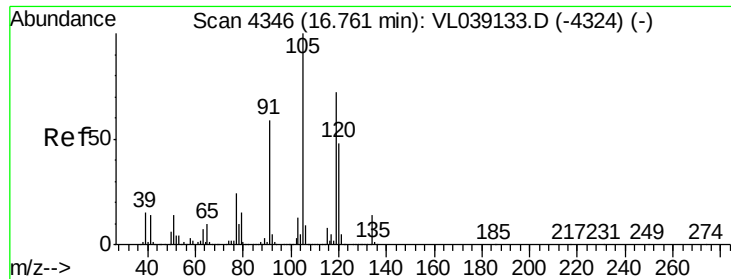
Tgt Ion:105 Resp: 48783

Ion Ratio Lower Upper

105 100

120 41.8 36.7 55.1



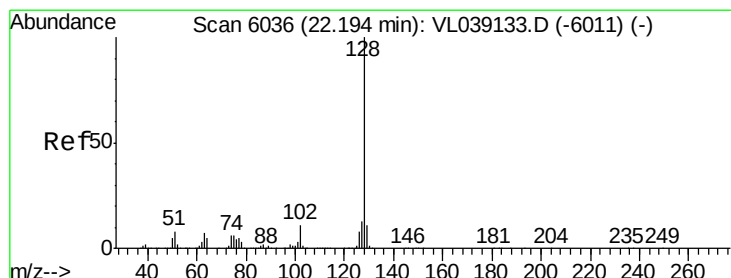
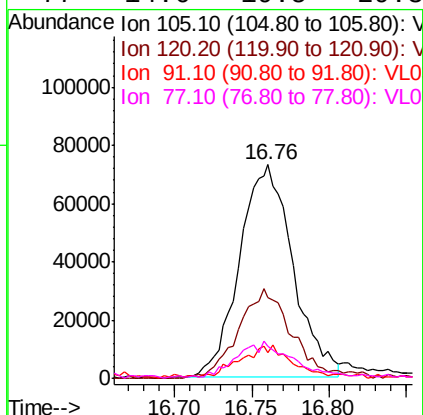
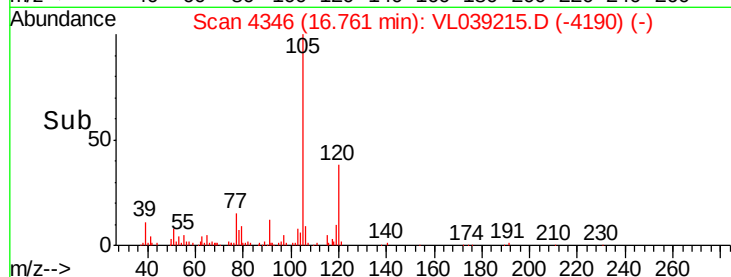
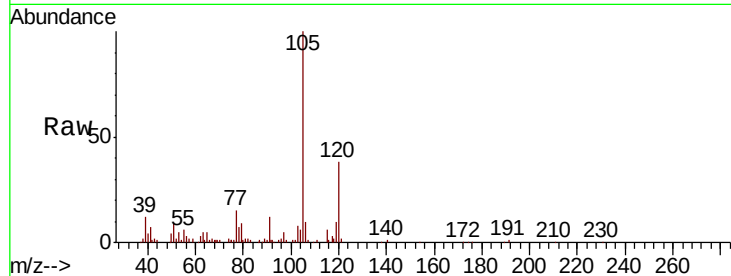


#74
 1,2,4-Trimethylbenzene
 Concen: 0.773 ppbv
 RT: 16.76 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Jun 2022 18:54

Tot Ion: 1
 Ion Ratio
 105 100
 120 36.
 91 11.
 77 14.6 19.5 29.3#

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/10/2022
 Supervised By : Mahesh Dadoda 06/10/2022



#79
 Naphthalene
 Concen: 0.102 ppbv m
 RT: 22.18 min Scan# 6033
 Delta R.T.: -0.01 min
 Lab File: VL039215.D
 Acq: 7 Jun 2022 18:54

Tgt Ion: 128 Resp: 17783
 Ion Ratio Lower Upper
 128 100
 127 11.1 10.4 15.6
 129 15.6 9.0 13.6#

