

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039975.D
 Acq On : 12 Dec 2022 14:29
 Operator : SY/MD
 Sample : N5969-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/14/2022
 Supervised By :Mahesh Dadoda 12/14/2022

Quant Time: Dec 13 06:10:08 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 12 2022

QLast Update : Fri Dec 02 23:21:36 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.173	49	1144827	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.636	114	3094285	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2804765	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2303959	10.755	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	74967	0.457	ppbv	99
3) Chlorodifluoromethane	2.655	51	62335	0.395	ppbv #	90
4) Chloromethane	2.793	50	46238	0.458	ppbv	93
11) Trichlorofluoromethane	3.546	101	104028	0.520	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.044	101	12710m	0.084	ppbv	
13) Ethanol	3.218	45	2161358	380.426	ppbv	99
15) Acetone	3.449	43	1090627	7.182	ppbv	95
20) Methylene Chloride	3.915	84	2387201	32.449	ppbv	94
26) Hexane	5.195	57	1729682	14.202	ppbv #	40
29) Chloroform	5.259	83	29804m	0.184	ppbv	
30) Cyclohexane	6.591	84	13498m	0.113	ppbv	
34) 2-Butanone	4.774	43	73747	0.498	ppbv	96
35) Carbon Tetrachloride	6.478	117	14961m	0.085	ppbv	
36) Benzene	6.349	78	84167	0.320	ppbv #	94
44) 2,2,4-Trimethylpentane	7.311	57	235249	0.536	ppbv	91
52) Tetrachloroethene	10.600	164	16063m	0.163	ppbv	
53) Toluene	9.208	91	270482	0.903	ppbv	98
59) m/p-Xylene	12.330	91	151730m	0.476	ppbv	
60) o-Xylene	13.047	91	46131	0.152	ppbv	98
79) Naphthalene	21.387	128	64828m	0.327	ppbv	

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

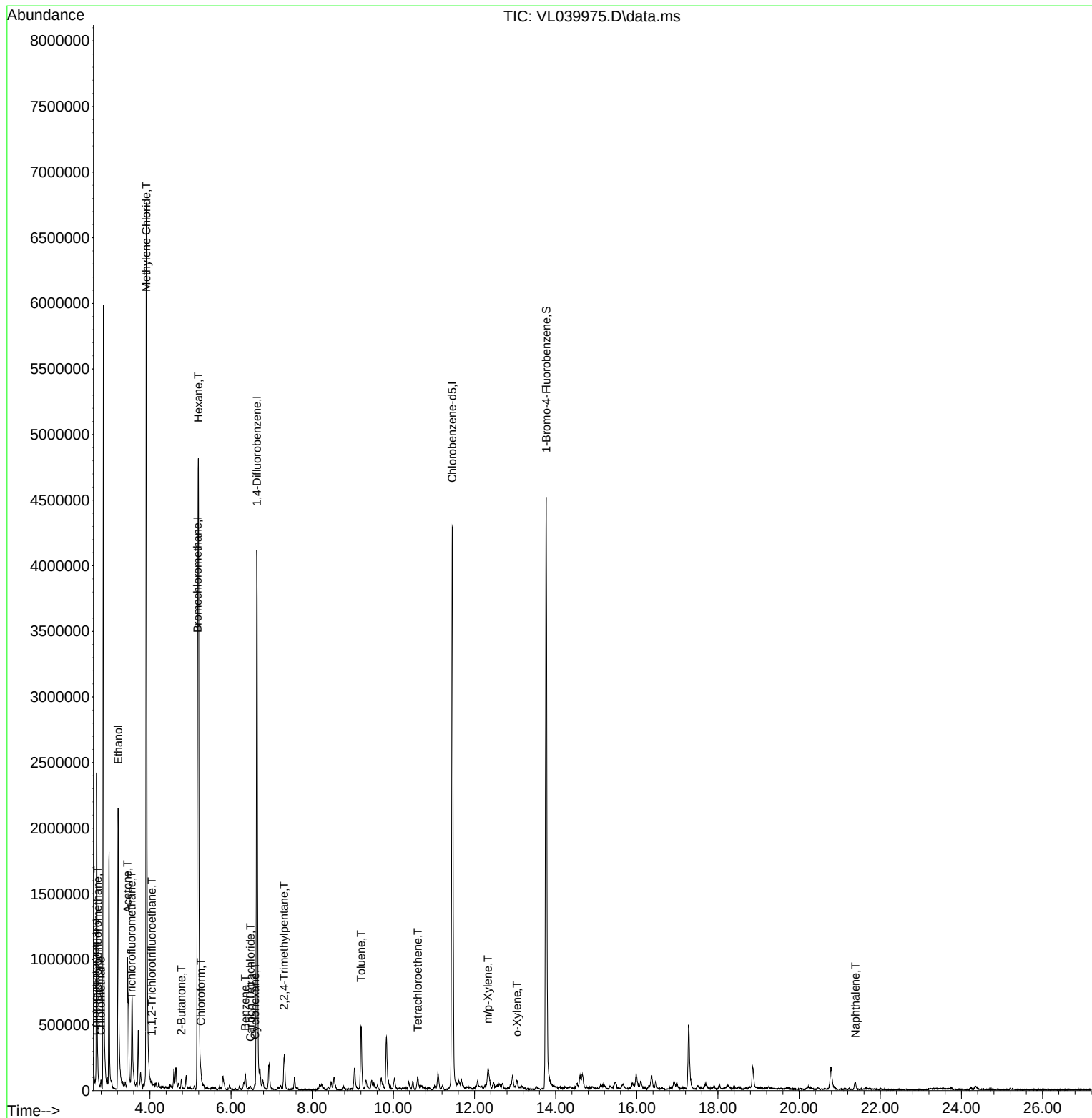
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
Data File : VL039975.D
Acq On : 12 Dec 2022 14:29
Operator : SY/MD
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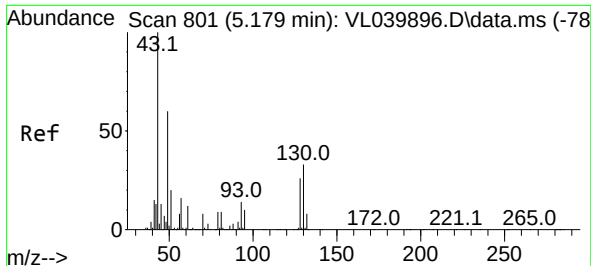
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Quant Time: Dec 13 06:10:08 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Dec 02 23:21:36 2022
Response via : Initial Calibration

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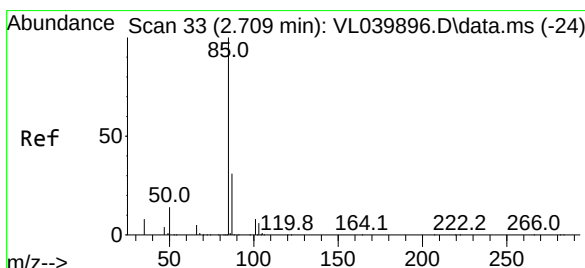
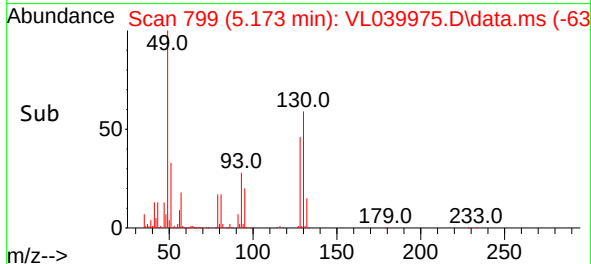
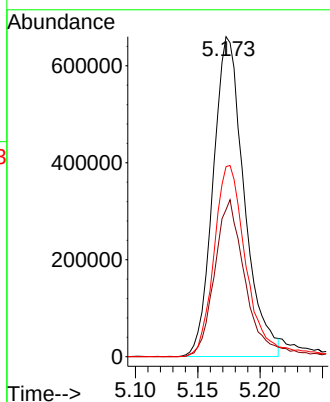
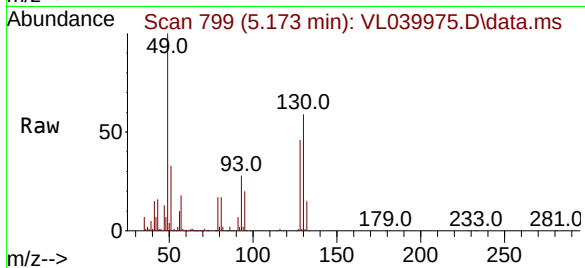
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.173 min Scan# 799
Delta R.T. 0.017 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 49 Resp: 114482
Ion Ratio Lower Upper
49 100
128 50.5 22.1 66.3
130 63.6 27.7 83.1

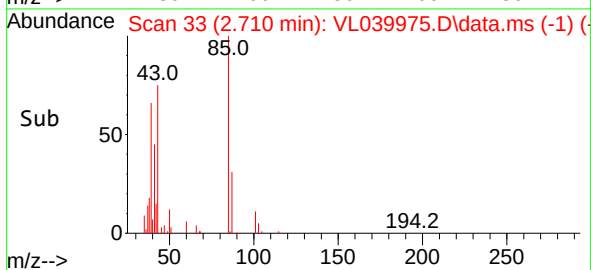
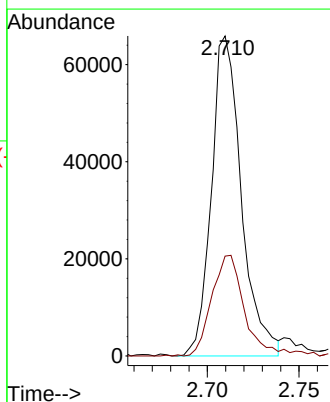
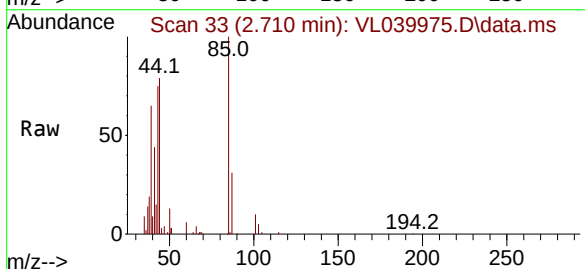
Manual Integrations
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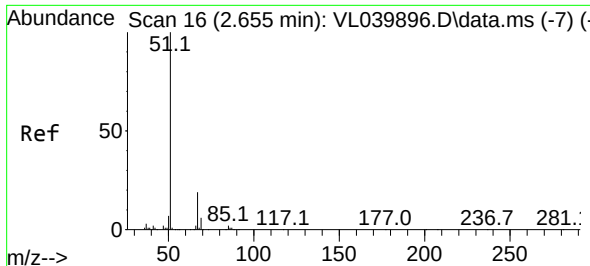
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#2
Dichlorodifluoromethane
Concen: 0.457 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion: 85 Resp: 74967
Ion Ratio Lower Upper
85 100
87 30.9 25.0 37.4





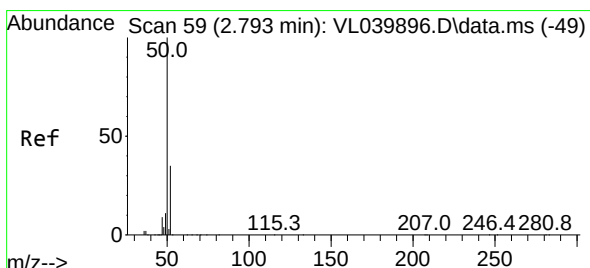
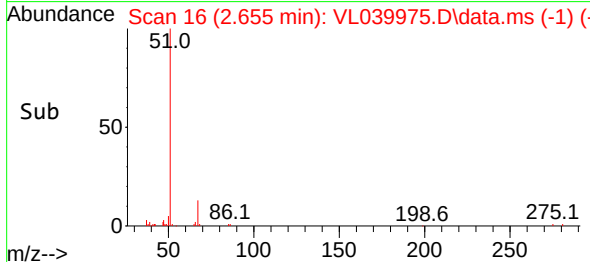
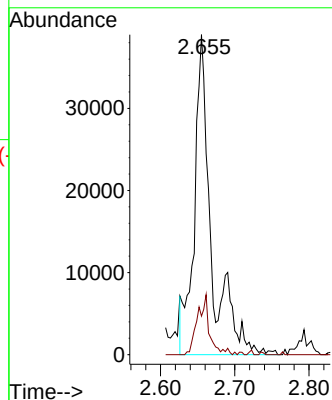
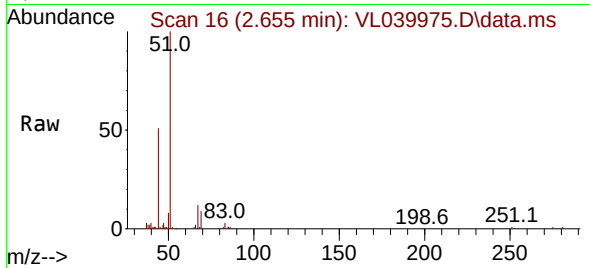
#3
Chlorodifluoromethane
Concen: 0.395 ppbv
RT: 2.655 min Scan# 16
Delta R.T. 0.013 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 51 Resp: 62335
Ion Ratio Lower Upper
51 100
67 13.4 14.2 21.4

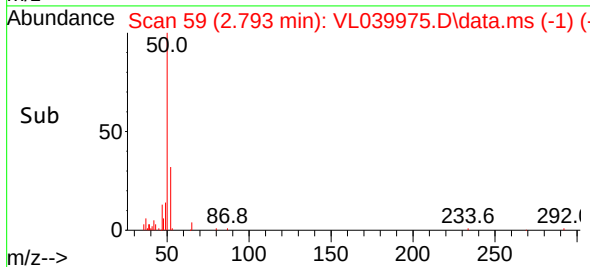
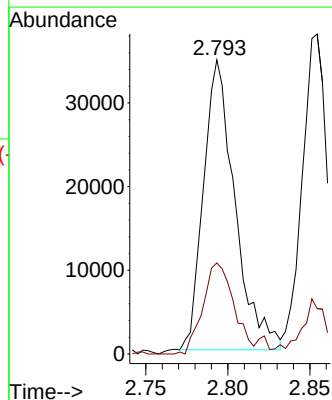
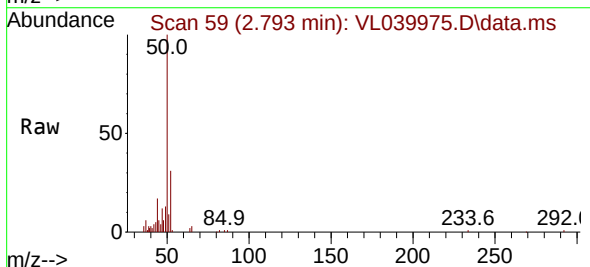
Manual Integrations
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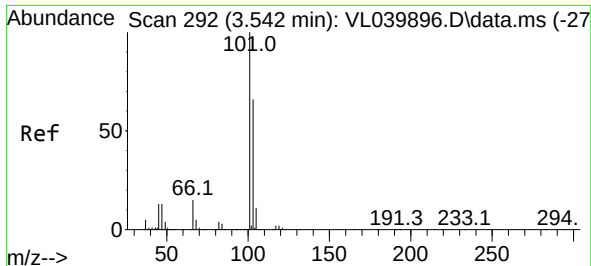
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#4
Chloromethane
Concen: 0.458 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

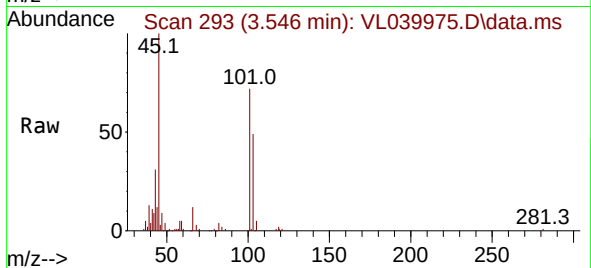
Tgt Ion: 50 Resp: 46238
Ion Ratio Lower Upper
50 100
52 30.8 27.8 41.8





#11
 Trichlorofluoromethane
 Concen: 0.520 ppbv
 RT: 3.546 min Scan# 292
 Delta R.T. 0.016 min
 Lab File: VL039975.D
 Acq: 12 Dec 2022 14:29

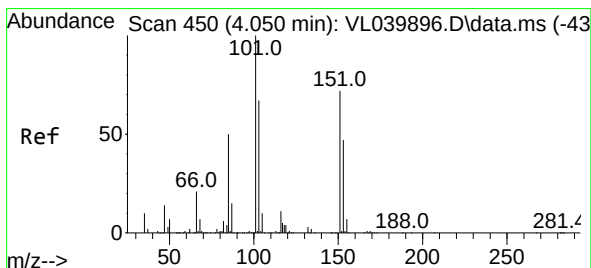
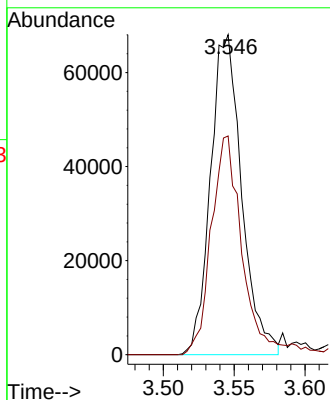
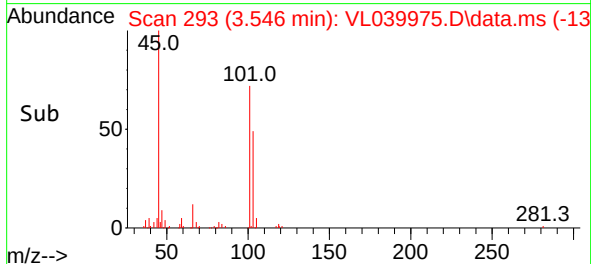
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP



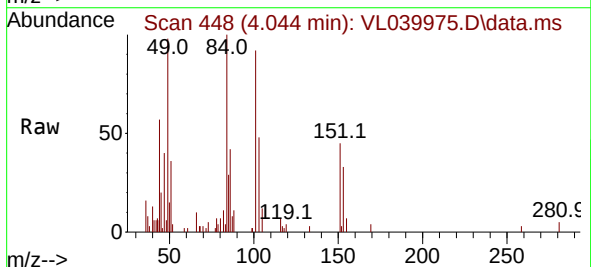
Tgt Ion:101 Resp: 104028
 Ion Ratio Lower Upper
 101 100
 103 68.4 52.6 78.8

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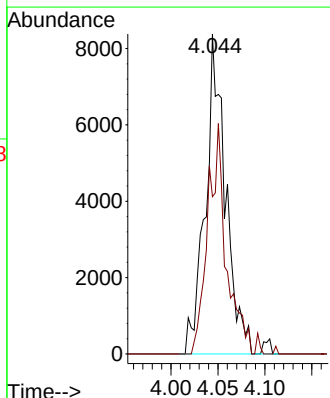
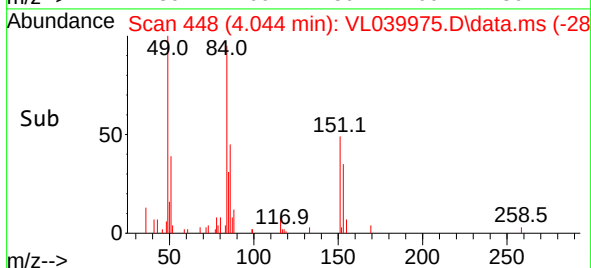
Reviewed By :Semsettin Yesilyurt 12/14/2022
 Supervised By :Mahesh Dadoda 12/14/2022

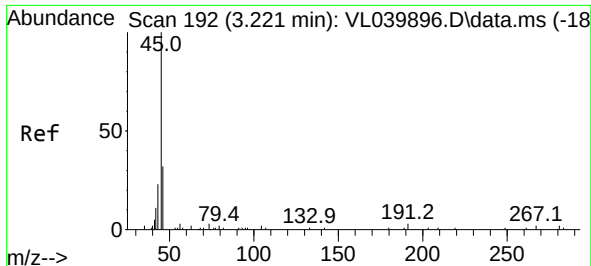


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.084 ppbv m
 RT: 4.044 min Scan# 448
 Delta R.T. 0.013 min
 Lab File: VL039975.D
 Acq: 12 Dec 2022 14:29



Tgt Ion:101 Resp: 12710
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.6 89.4#





#13

Ethanol

Concen: 380.426 ppbv

RT: 3.218 min Scan# 191

Delta R.T. 0.003 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion: 45 Resp: 2161358

Ion Ratio Lower Upper

45 100

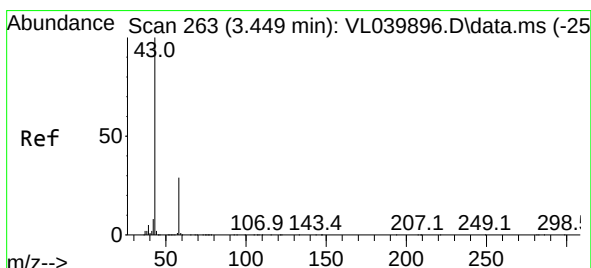
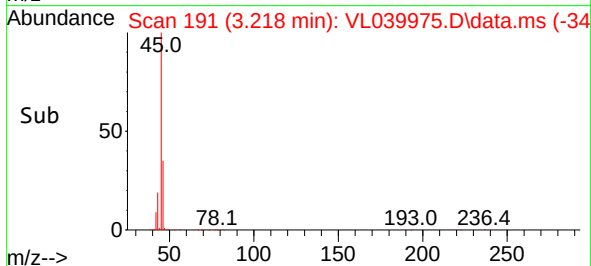
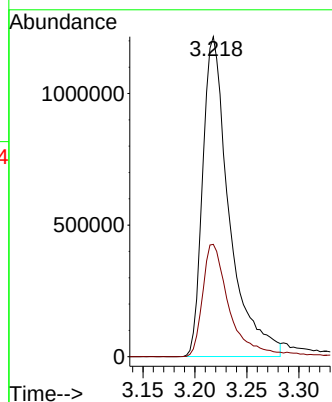
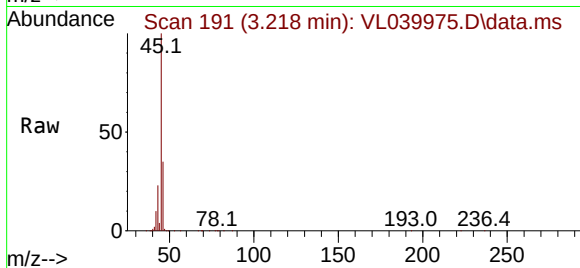
46 37.1 14.6 58.2

Manual Integrations

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Supervised By :Mahesh Dadoda 12/14/2022



#15

Acetone

Concen: 7.182 ppbv

RT: 3.449 min Scan# 263

Delta R.T. 0.016 min

Lab File: VL039975.D

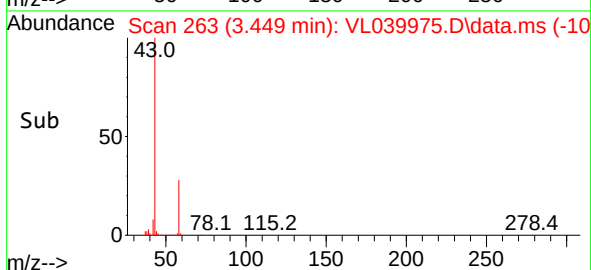
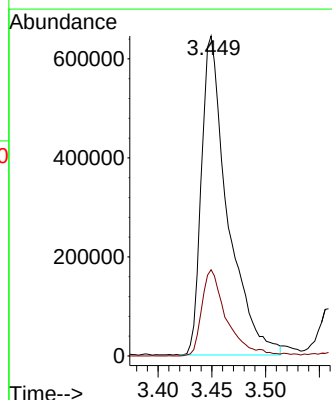
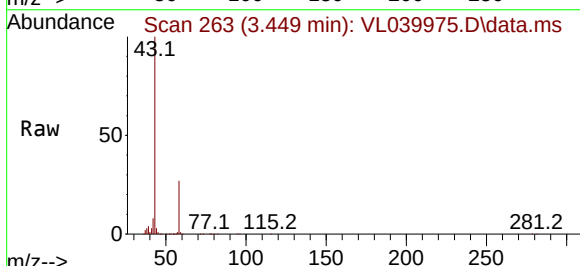
Acq: 12 Dec 2022 14:29

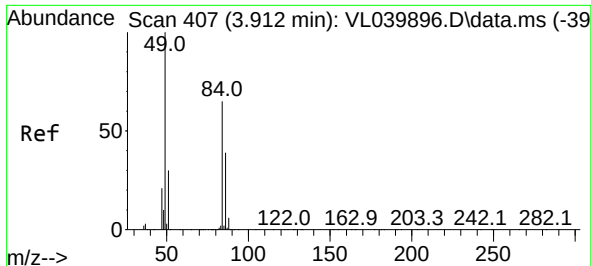
Tgt Ion: 43 Resp: 1090627

Ion Ratio Lower Upper

43 100

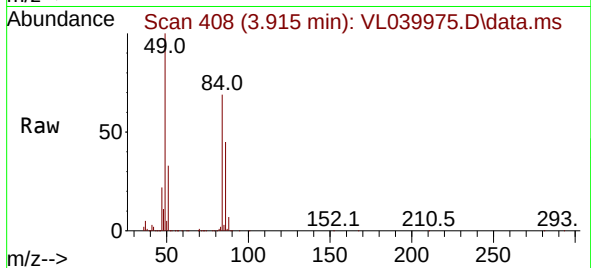
58 26.2 22.9 34.3





#20
Methylene Chloride
Concen: 32.449 ppbv
RT: 3.915 min Scan# 407
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

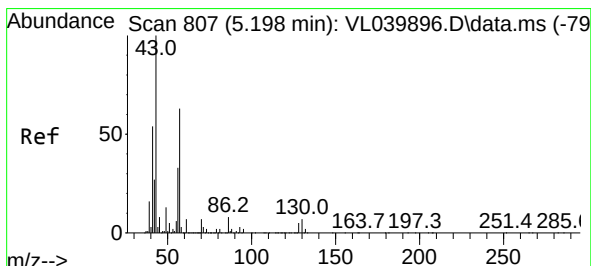
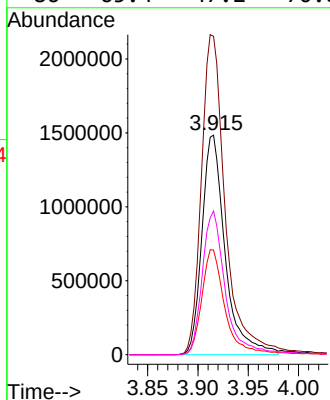
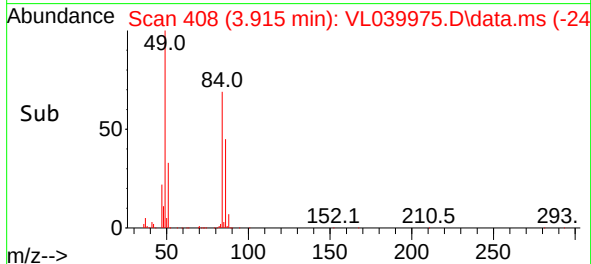


Tgt Ion: 84 Resp: 238720

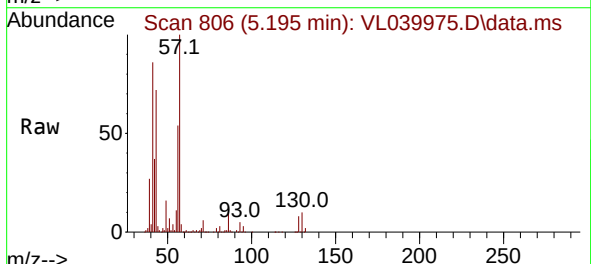
Ion	Ratio	Lower	Upper
84	100		
49	144.9	122.2	183.4
51	47.6	36.3	54.5
86	65.4	47.2	70.8

Manual Integrations
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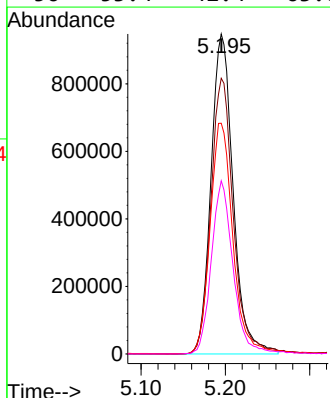
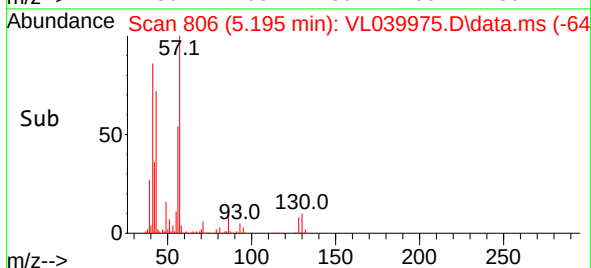


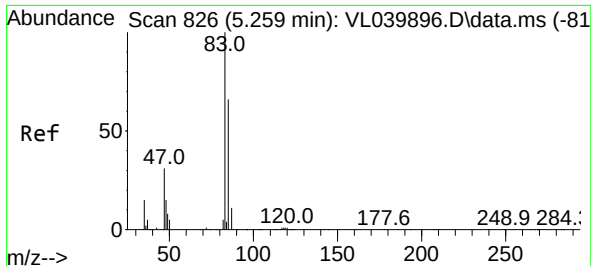
#26
Hexane
Concen: 14.202 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29



Tgt Ion: 57 Resp: 1729682

Ion	Ratio	Lower	Upper
57	100		
41	88.0	72.3	108.5
43	75.0	188.7	283.1#
56	53.4	42.4	63.6





#29

Chloroform

Concen: 0.184 ppbv m

RT: 5.259 min Scan# 81

Delta R.T. 0.023 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion: 83 Resp: 29804

Ion Ratio Lower Upper

83 100

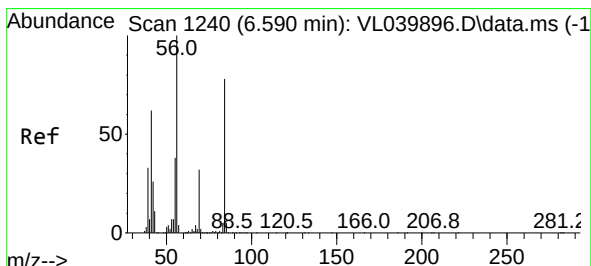
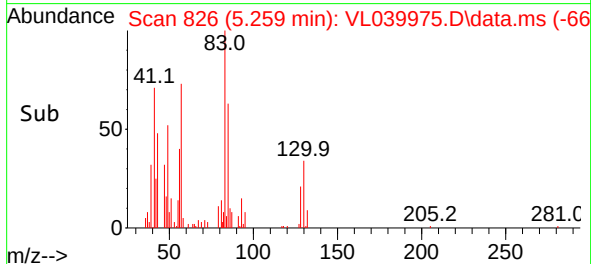
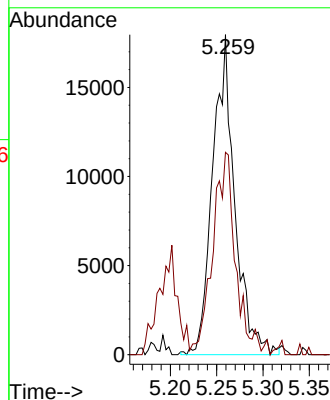
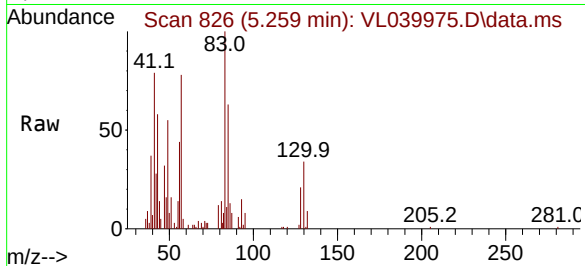
85 63.3 52.4 78.6

Manual Integrations

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#30

Cyclohexane

Concen: 0.113 ppbv m

RT: 6.591 min Scan# 1240

Delta R.T. 0.026 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

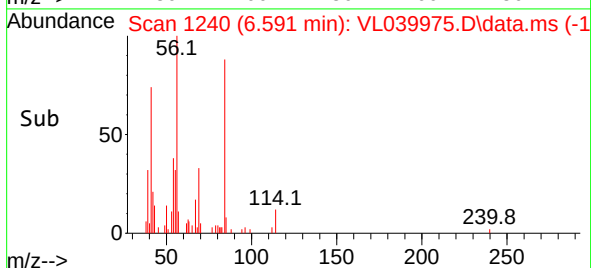
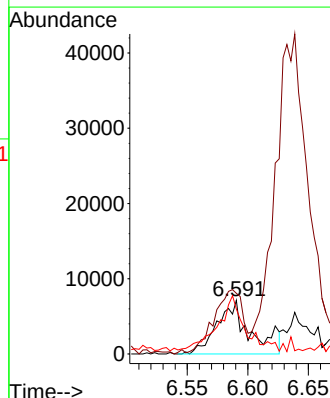
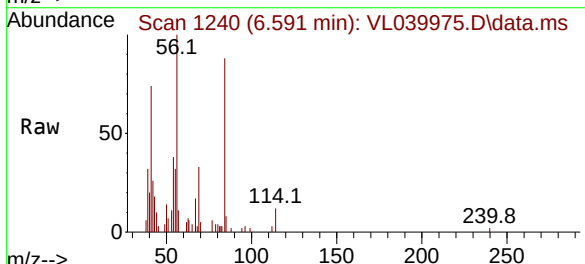
Tgt Ion: 84 Resp: 13498

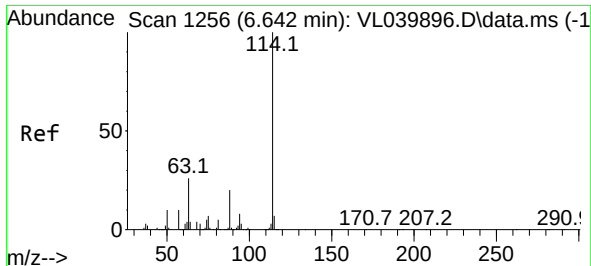
Ion Ratio Lower Upper

84 100

56 0.0 112.5 168.7#

41 0.0 67.8 101.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.636 min Scan# 114

Delta R.T. 0.016 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion:114 Resp: 309428

Ion Ratio Lower Upper

114 100

63 25.2 21.4 32.0

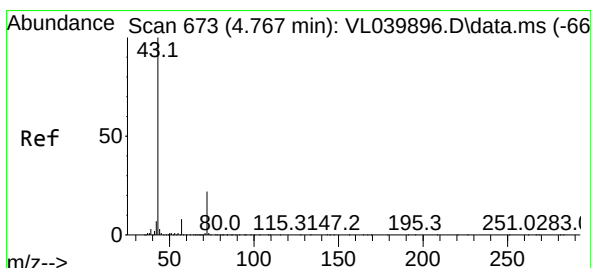
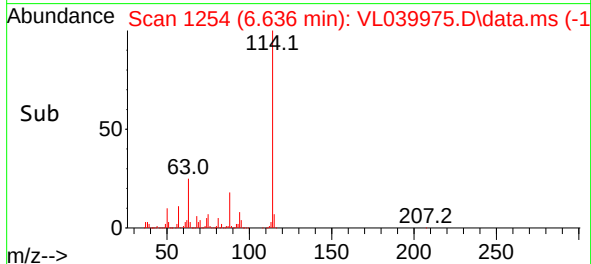
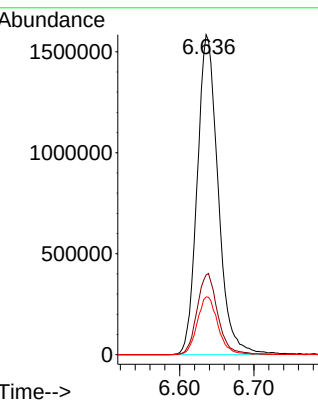
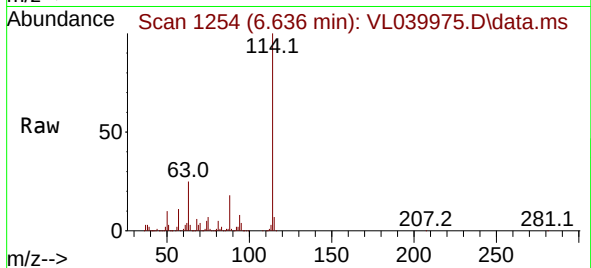
88 18.2 15.3 22.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/14/2022

Supervised By :Mahesh Dadoda 12/14/2022



#34

2-Butanone

Concen: 0.498 ppbv

RT: 4.774 min Scan# 675

Delta R.T. 0.023 min

Lab File: VL039975.D

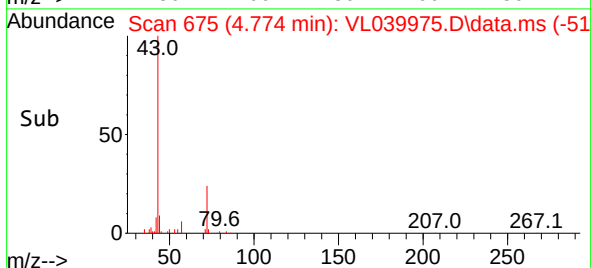
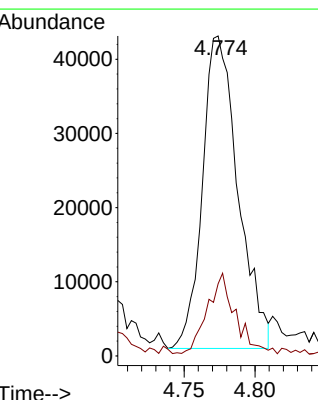
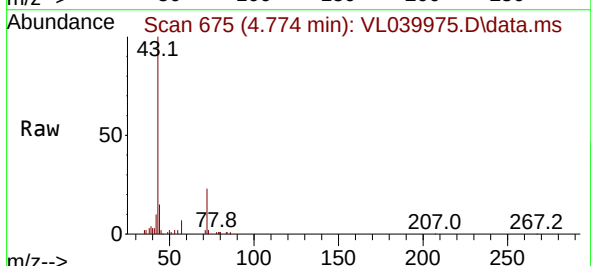
Acq: 12 Dec 2022 14:29

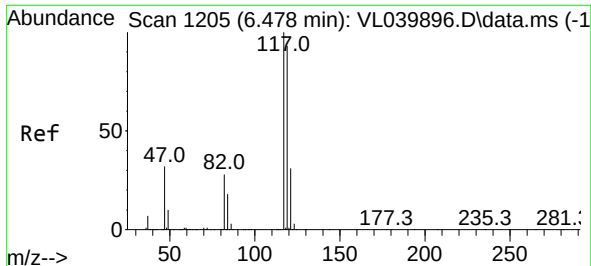
Tgt Ion: 43 Resp: 73747

Ion Ratio Lower Upper

43 100

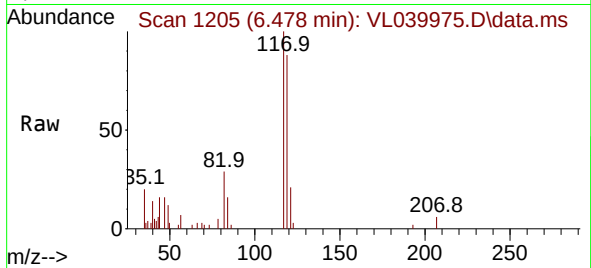
72 23.6 17.4 26.2





#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 6.478 min Scan# 1165
Delta R.T. 0.023 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

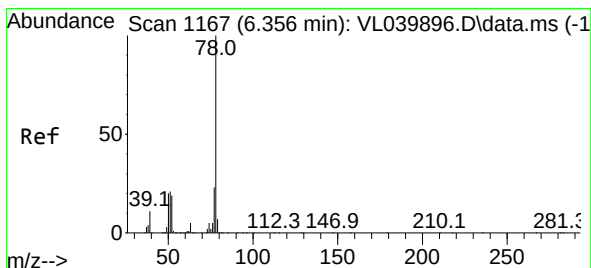
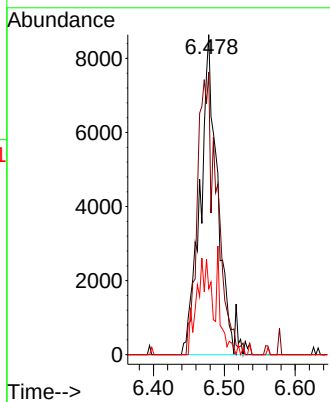
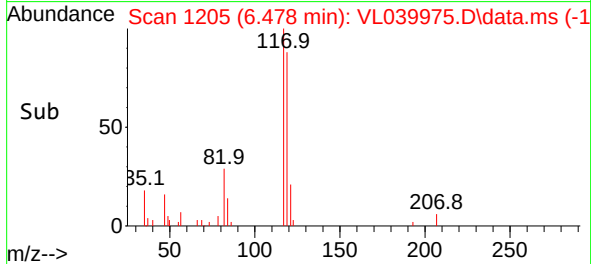
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP



Tgt Ion:117 Resp: 1496
Ion Ratio Lower Upper
117 100
119 88.3 74.7 112.1
121 20.6 24.5 36.7

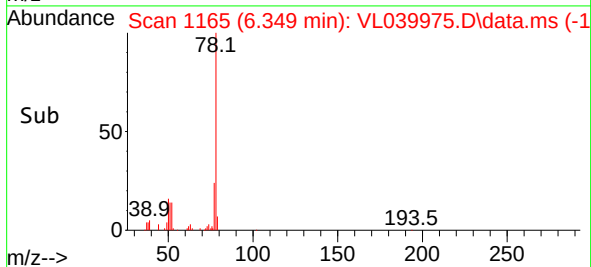
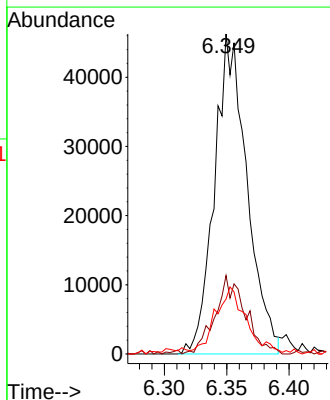
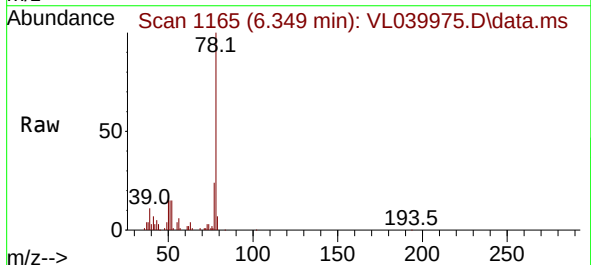
Manual Integrations
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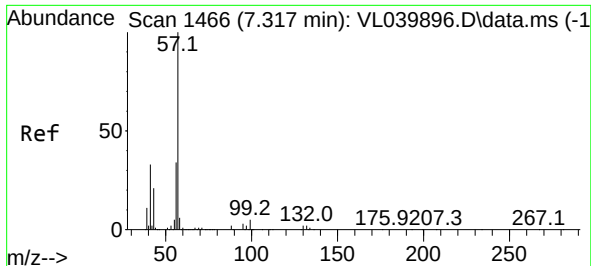
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#36
Benzene
Concen: 0.320 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.016 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

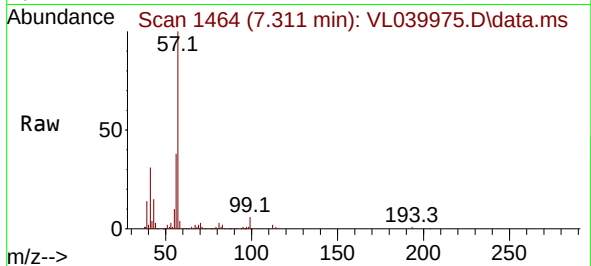
Tgt Ion: 78 Resp: 84167
Ion Ratio Lower Upper
78 100
77 23.5 18.2 27.2
50 15.1 15.8 23.8





#44
2,2,4-Trimethylpentane
Concen: 0.536 ppbv
RT: 7.311 min Scan# 1466
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

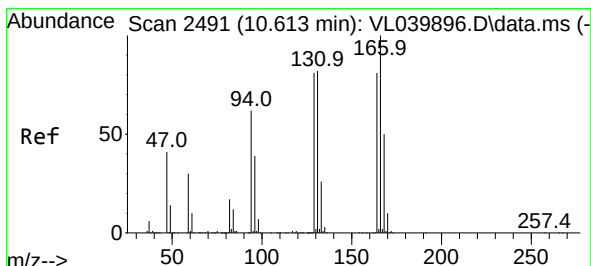
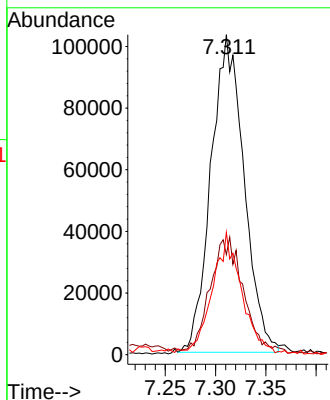
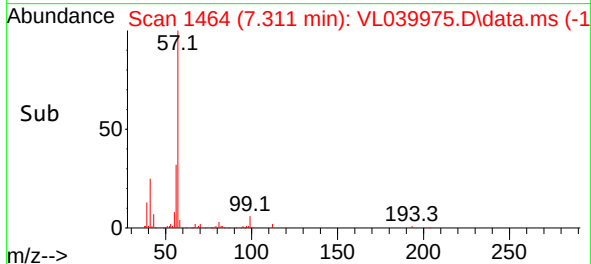
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP



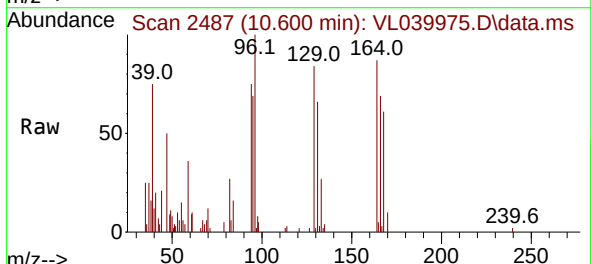
Tgt Ion: 57 Resp: 235249
Ion Ratio Lower Upper
57 100
41 38.5 26.2 39.2
56 35.8 25.5 38.3

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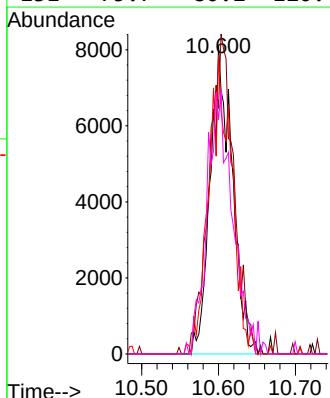
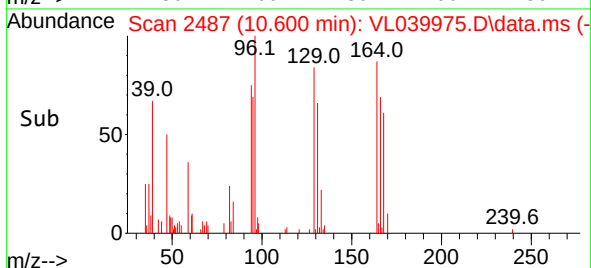
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

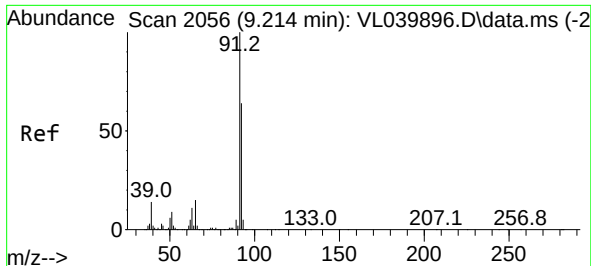


#52
Tetrachloroethene
Concen: 0.163 ppbv m
RT: 10.600 min Scan# 2487
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29



Tgt Ion:164 Resp: 16063
Ion Ratio Lower Upper
164 100
166 79.5 98.3 147.5#
129 96.7 79.7 119.5
131 75.7 80.2 120.4#





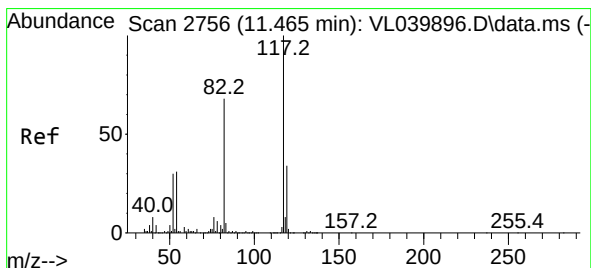
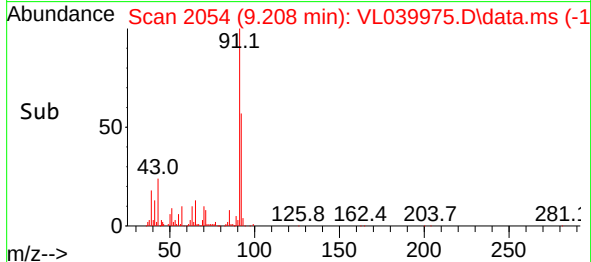
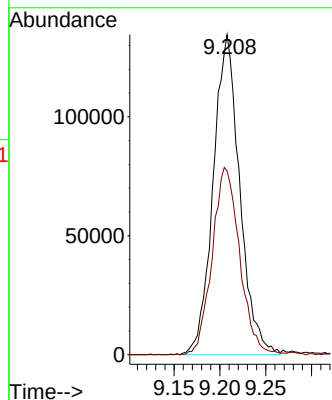
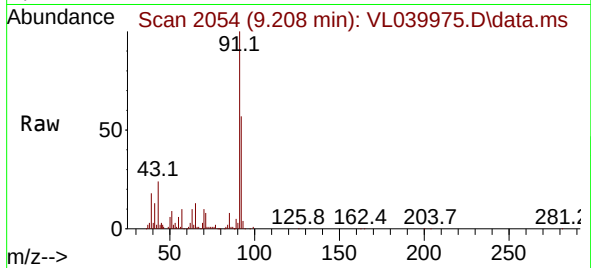
#53
Toluene
Concen: 0.903 ppbv
RT: 9.208 min Scan# 2056
Delta R.T. 0.023 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tgt Ion: 91 Resp: 27048
Ion Ratio Lower Upper
91 100
92 61.0 49.8 74.6

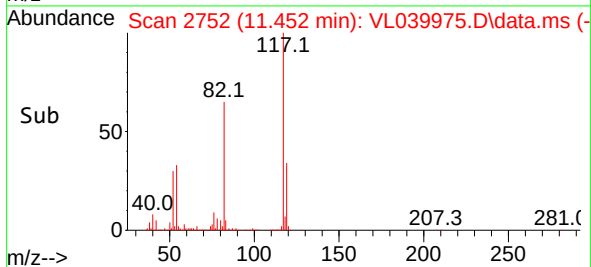
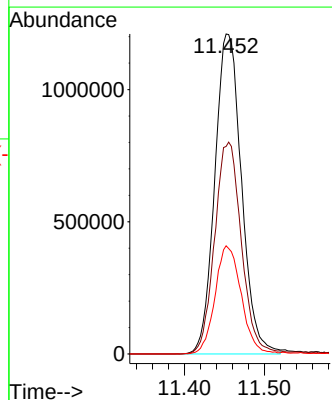
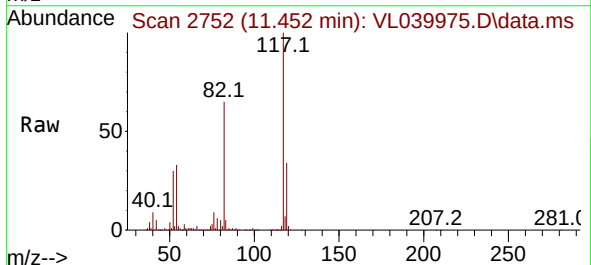
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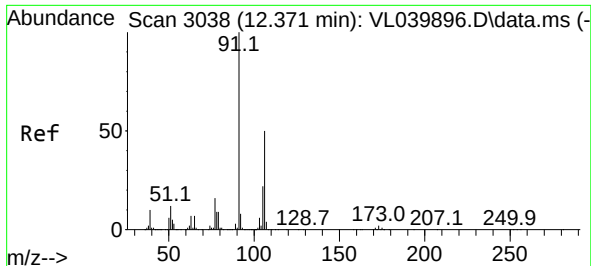
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.020 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

Tgt Ion:117 Resp: 2804765
Ion Ratio Lower Upper
117 100
82 67.4 52.3 78.5
119 33.4 25.7 38.5





#59

m/p-Xylene

Concen: 0.476 ppbv m

RT: 12.330 min Scan# 3038

Delta R.T. -0.009 min

Lab File: VL039975.D

Acq: 12 Dec 2022 14:29

Instrument :

MSVOA_L

ClientSampleId :

IA-2DUP

Tgt Ion: 91 Resp: 151730

Ion Ratio Lower Upper

91 100

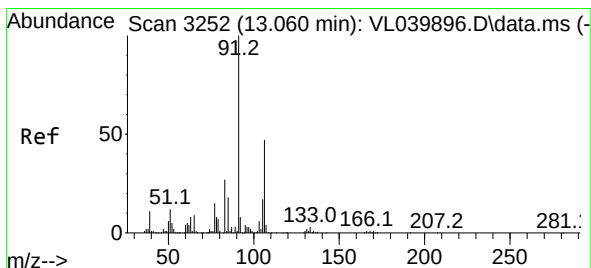
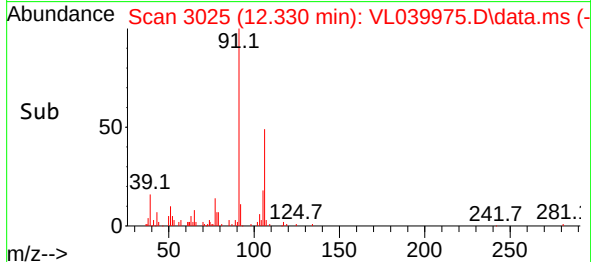
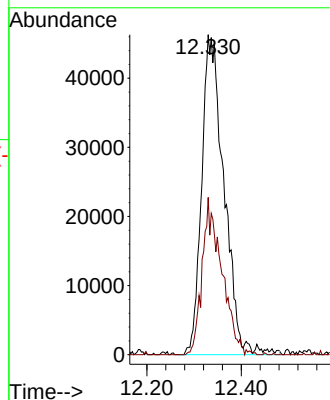
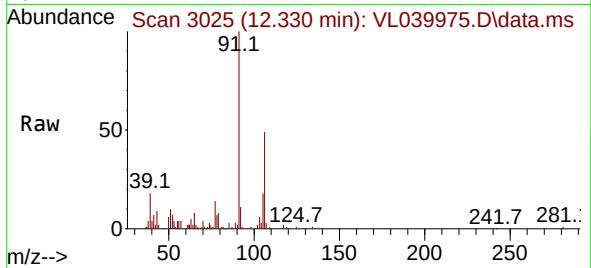
106 0.0 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/14/2022

Supervised By :Mahesh Dadoda 12/14/2022



#60

o-Xylene

Concen: 0.152 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. 0.020 min

Lab File: VL039975.D

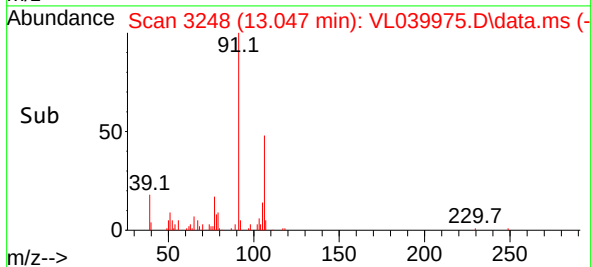
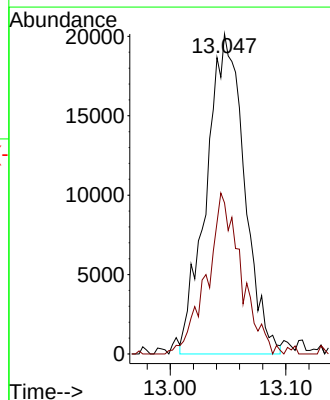
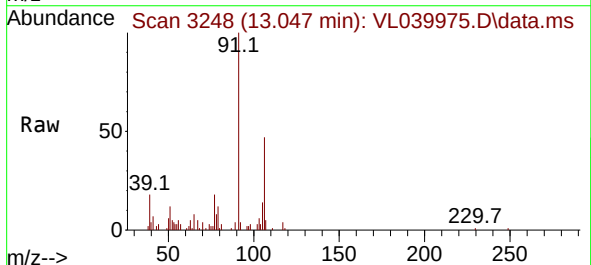
Acq: 12 Dec 2022 14:29

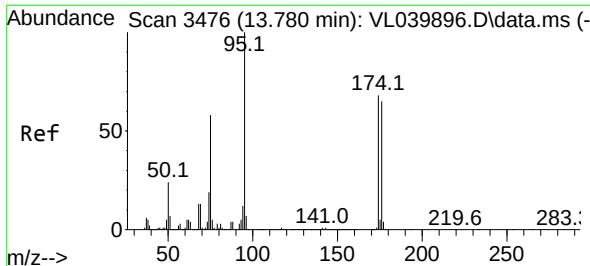
Tgt Ion: 91 Resp: 46131

Ion Ratio Lower Upper

91 100

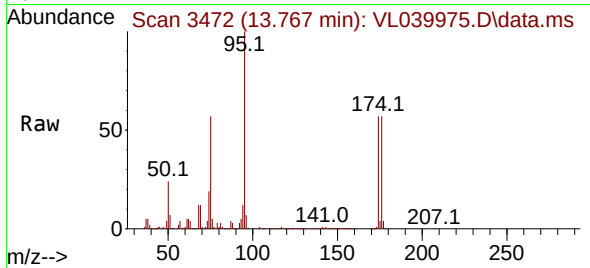
106 45.3 23.2 69.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.755 ppbv
RT: 13.767 min Scan# 3476
Delta R.T. 0.026 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29

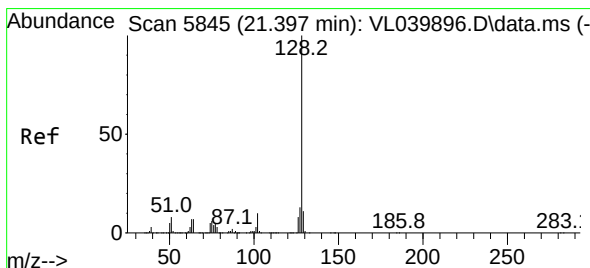
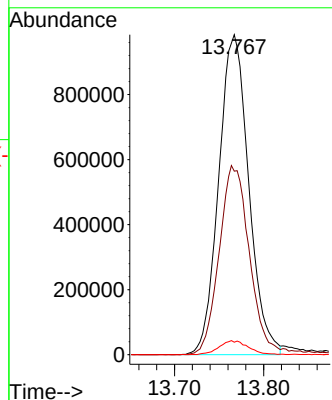
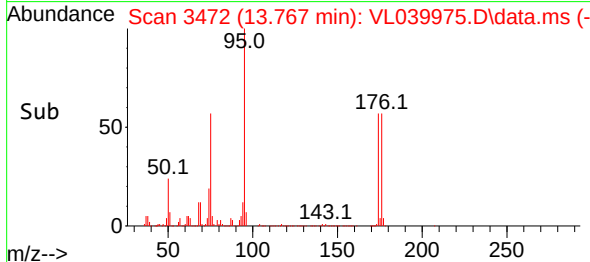
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP



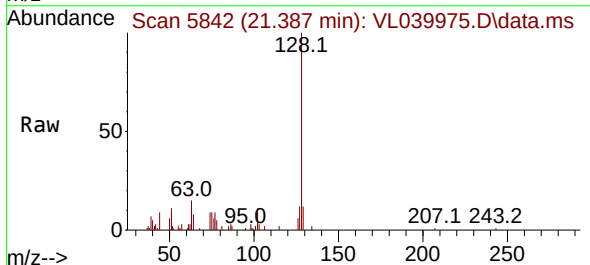
Tgt Ion: 95 Resp: 230395
Ion Ratio Lower Upper
95 100
174 61.3 53.7 80.5
175 4.4 4.0 6.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#79
Naphthalene
Concen: 0.327 ppbv m
RT: 21.387 min Scan# 5842
Delta R.T. 0.039 min
Lab File: VL039975.D
Acq: 12 Dec 2022 14:29



Tgt Ion:128 Resp: 64828
Ion Ratio Lower Upper
128 100
127 11.7 10.0 15.0
129 12.4 8.8 13.2

