

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040386.D
 Acq On : 19 Apr 2023 19:11
 Operator : SY/MD
 Sample : 02368-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP2-A

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/20/2023
 Supervised By : Mahesh Dadoda 04/22/2023

Quant Time: Apr 20 05:13:11 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Thu Apr 13 14:37:02 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1075754	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.645	114	2747130	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2585298	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2123073	9.931	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.713	85	29560	0.152	ppbv	99
4) Chloromethane	2.796	50	20536	0.231	ppbv #	86
9) Propene	2.677	41	49230	0.886	ppbv	86
13) Ethanol	3.221	45	3265433	704.357	ppbv	96
15) Acetone	3.449	43	4444176	29.168	ppbv	94
17) tert-Butyl alcohol	3.873	59	97391	0.696	ppbv	97
19) Isopropyl Alcohol	3.565	45	371827m	5.348	ppbv	
20) Methylene Chloride	3.922	84	229014	3.765	ppbv	94
26) Hexane	5.205	57	281482	2.604	ppbv #	38
27) Carbon Disulfide	4.115	76	36207	0.259	ppbv #	73
29) Chloroform	5.262	83	358063	1.860	ppbv	100
34) 2-Butanone	4.774	43	1385870	9.356	ppbv	99
36) Benzene	6.362	78	32390	0.145	ppbv #	94
38) Trichloroethene	7.295	130	6222m	0.049	ppbv	
41) Tetrahydrofuran	5.549	42	190043	2.343	ppbv	99
50) 4-Methyl-2-Pentanone	8.182	43	111218m	0.495	ppbv	
52) Tetrachloroethene	10.613	164	387171	5.522	ppbv	96
53) Toluene	9.217	91	194397	0.818	ppbv	98
58) Ethyl Benzene	12.082	91	58098	0.183	ppbv	90
59) m/p-Xylene	12.346	91	182523m	0.624	ppbv	
60) o-Xylene	13.060	91	67961m	0.242	ppbv	

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

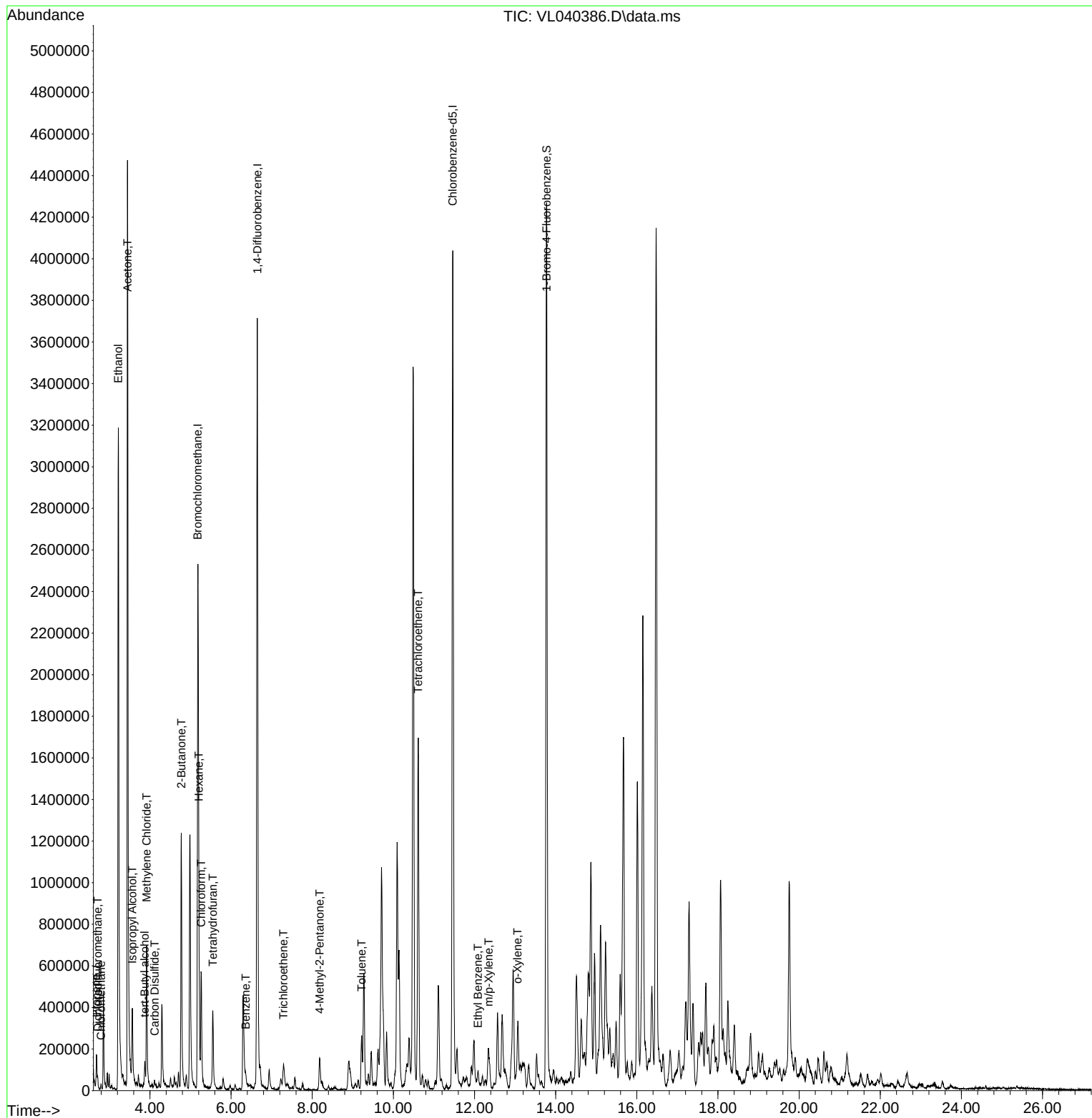
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
Data File : VL040386.D
Acq On : 19 Apr 2023 19:11
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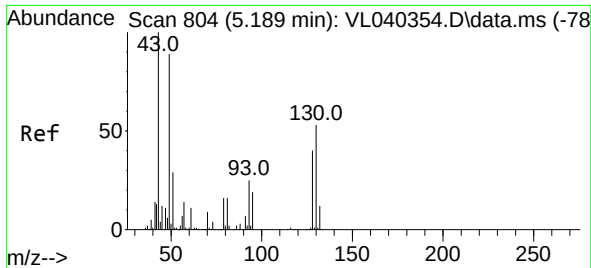
Instrument :
MSVOA_L
ClientSampleId :
VP2-A

Quant Time: Apr 20 05:13:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration

Manual Integrations
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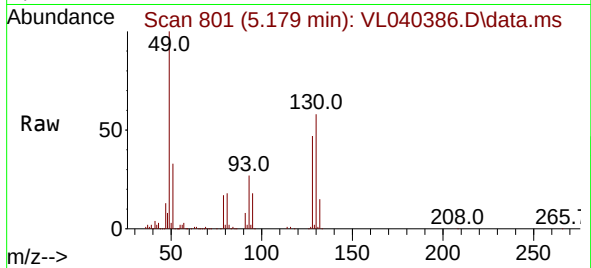
Reviewed By : Semsettin Yesilyurt 04/20/2023
Supervised By : Mahesh Dadoda 04/22/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

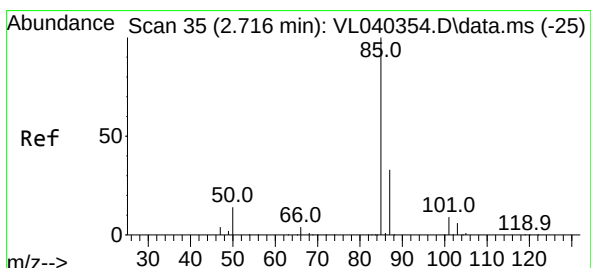
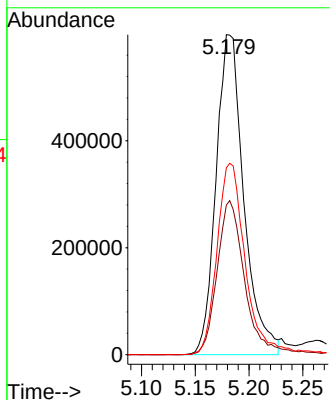
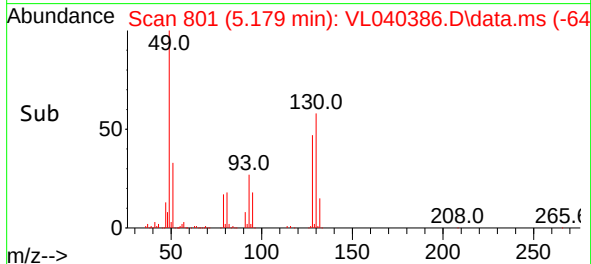
Instrument :
MSVOA_L
ClientSampleId :
VP2-A



Tgt Ion: 49 Resp: 1075754
Ion Ratio Lower Upper
49 100
128 49.0 23.7 71.1
130 61.9 29.9 89.8

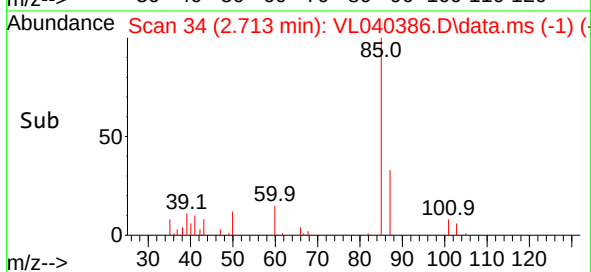
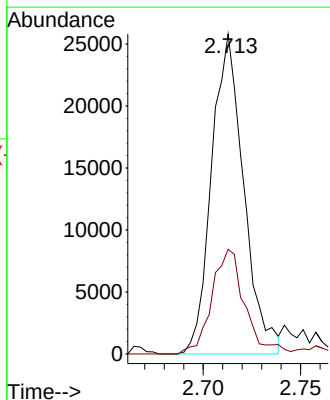
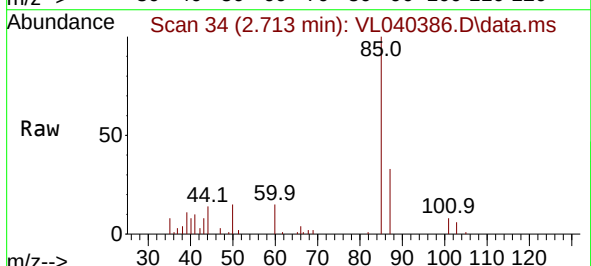
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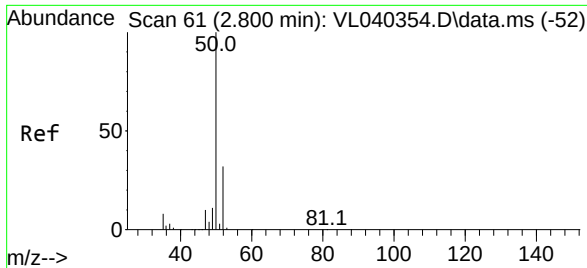
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#2
Dichlorodifluoromethane
Concen: 0.152 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

Tgt Ion: 85 Resp: 29560
Ion Ratio Lower Upper
85 100
87 32.7 26.6 40.0





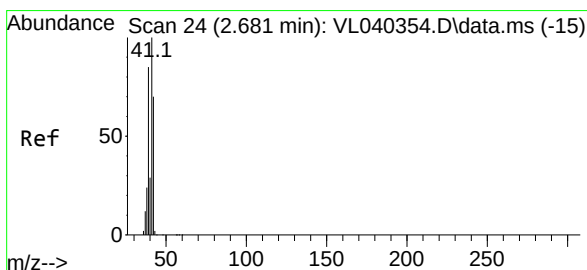
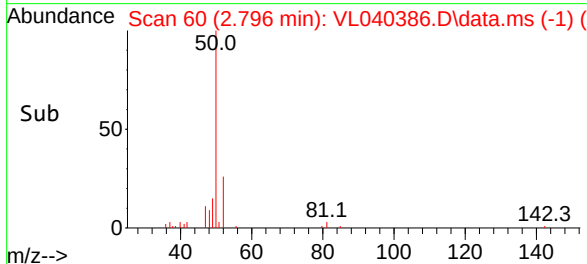
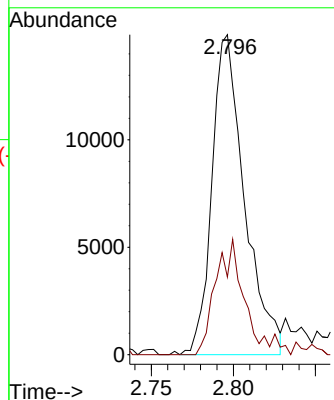
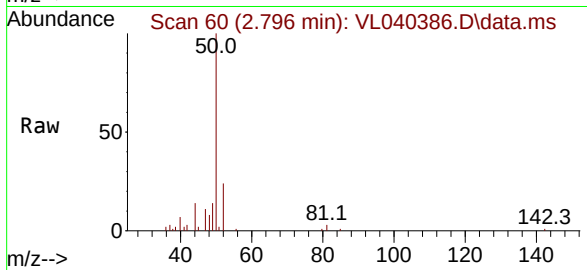
#4
Chloromethane
Concen: 0.231 ppbv
RT: 2.796 min Scan# 61
Delta R.T. -0.004 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :
VP2-A

Tgt Ion: 50 Resp: 20530
Ion Ratio Lower Upper
50 100
52 23.7 25.3 37.9

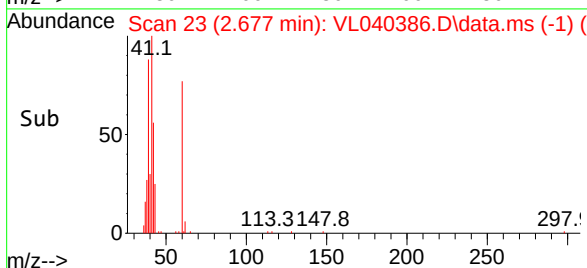
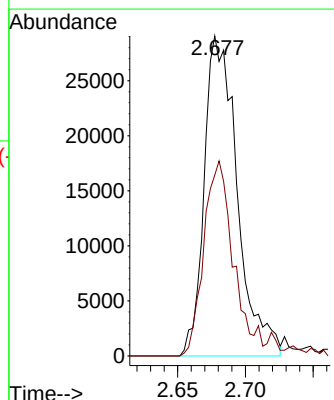
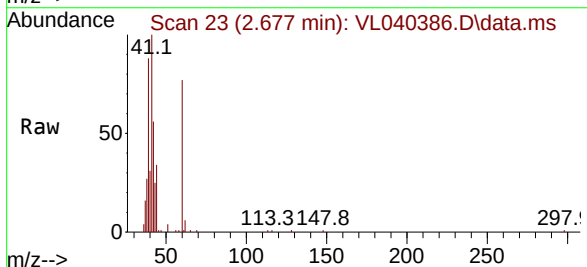
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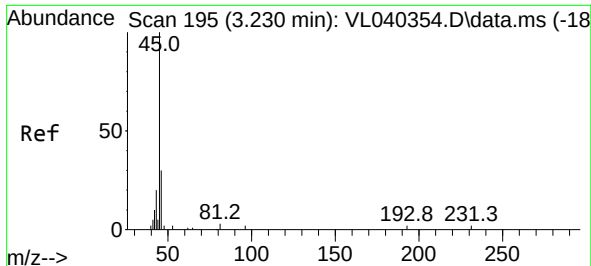
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#9
Propene
Concen: 0.886 ppbv
RT: 2.677 min Scan# 23
Delta R.T. -0.004 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

Tgt Ion: 41 Resp: 49230
Ion Ratio Lower Upper
41 100
42 59.1 56.5 84.7





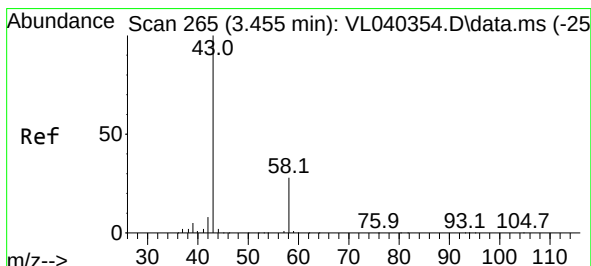
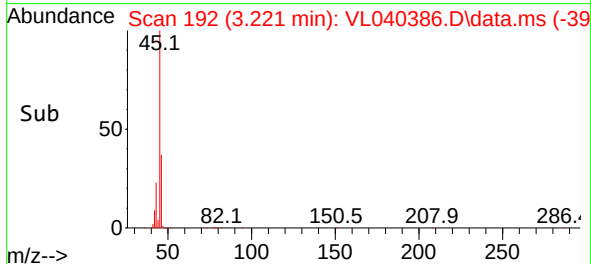
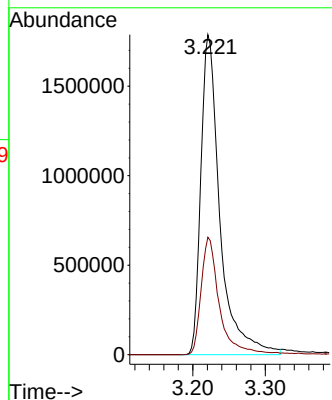
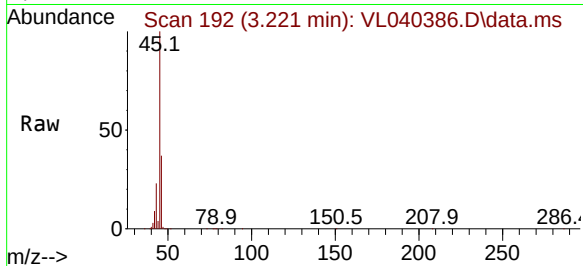
#13
Ethanol
Concen: 704.357 ppbv
RT: 3.221 min Scan# 195
Delta R.T. -0.009 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :
VP2-A

Tgt Ion: 45 Resp: 326543
Ion Ratio Lower Upper
45 100
46 36.0 15.3 61.3

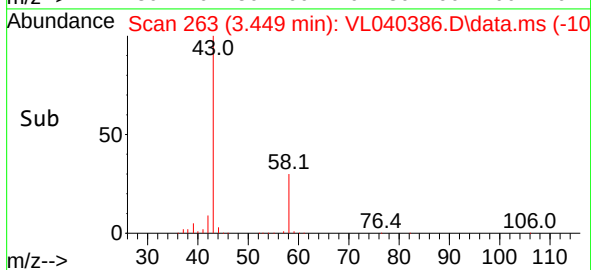
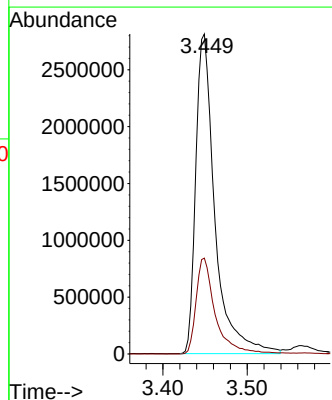
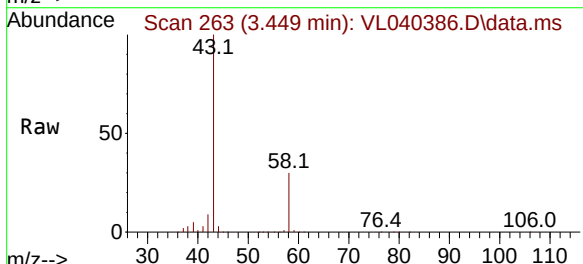
Manual Integrations
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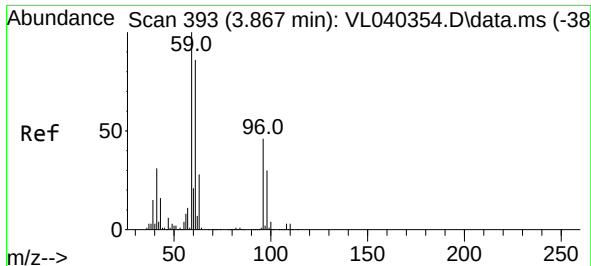
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#15
Acetone
Concen: 29.168 ppbv
RT: 3.449 min Scan# 263
Delta R.T. -0.006 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

Tgt Ion: 43 Resp: 4444176
Ion Ratio Lower Upper
43 100
58 30.8 22.2 33.2





#17

tert-Butyl alcohol

Concen: 0.696 ppbv

RT: 3.873 min Scan# 393

Delta R.T. 0.006 min

Lab File: VL040386.D

Acq: 19 Apr 2023 19:11

Instrument :

MSVOA_L

ClientSampleId :

VP2-A

Tgt Ion: 59 Resp: 9739

Ion Ratio Lower Upper

59 100

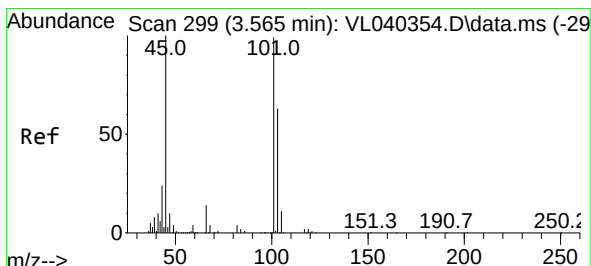
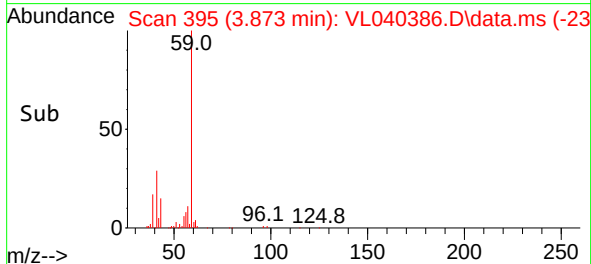
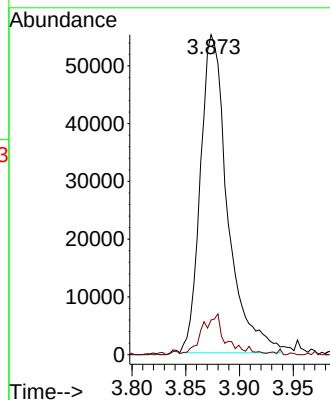
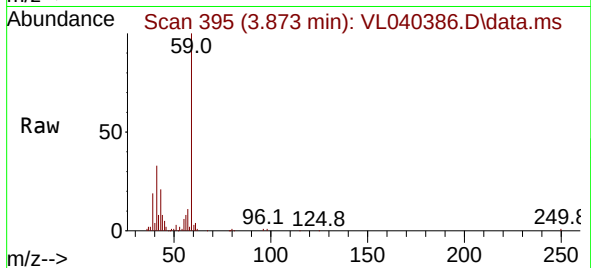
57 11.7 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#19

Isopropyl Alcohol

Concen: 5.348 ppbv m

RT: 3.565 min Scan# 299

Delta R.T. -0.000 min

Lab File: VL040386.D

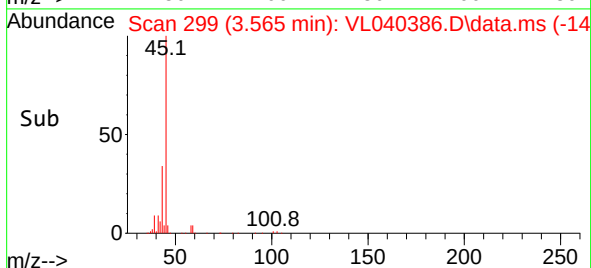
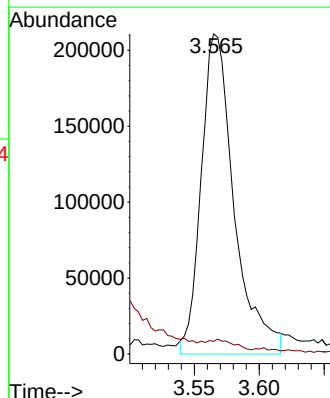
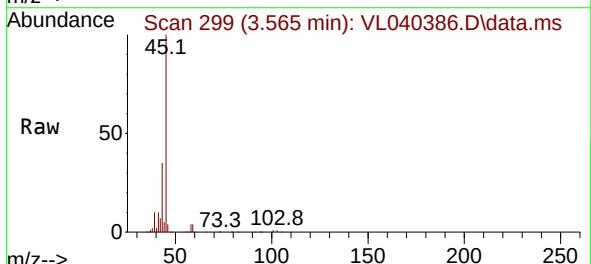
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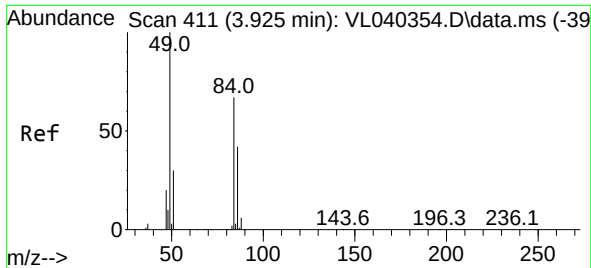
Tgt Ion: 45 Resp: 371827

Ion Ratio Lower Upper

45 100

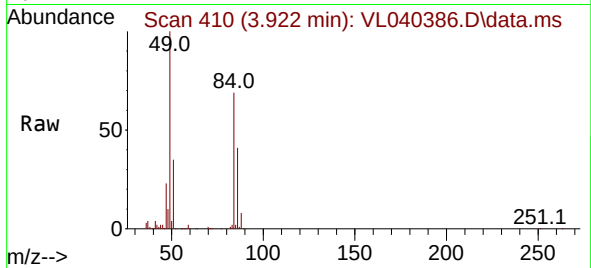
58 0.0 2.6 4.0#





#20
Methylene Chloride
Concen: 3.765 ppbv
RT: 3.922 min Scan# 411
Delta R.T. -0.003 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

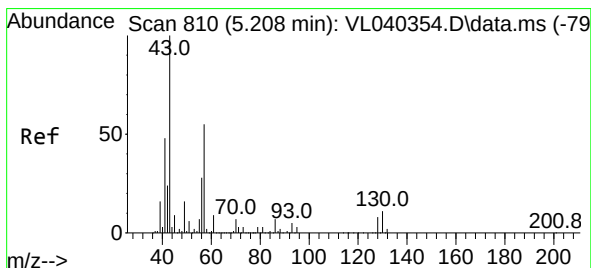
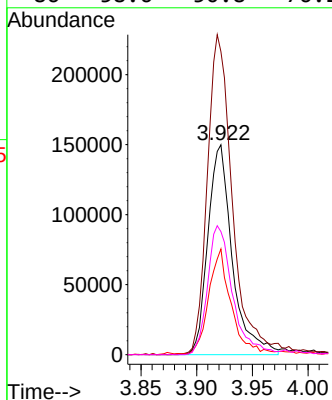
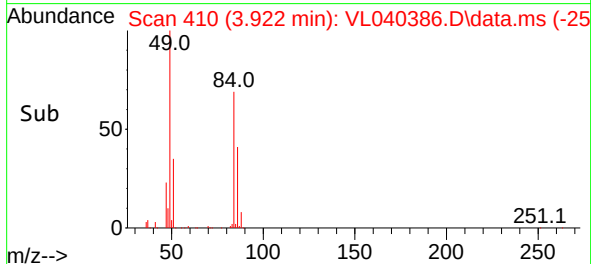
Instrument :
MSVOA_L
ClientSampleId :
VP2-A



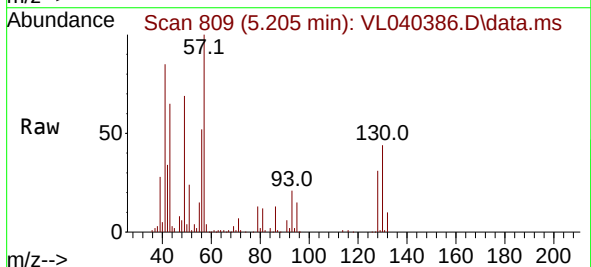
Tgt Ion: 84 Resp: 229014
Ion Ratio Lower Upper
84 100
49 143.9 120.1 180.1
51 49.8 36.3 54.5
86 58.6 50.8 76.2

Manual Integrations
APPROVED

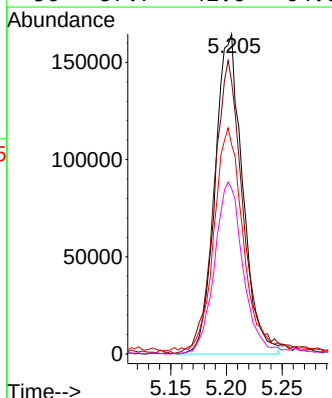
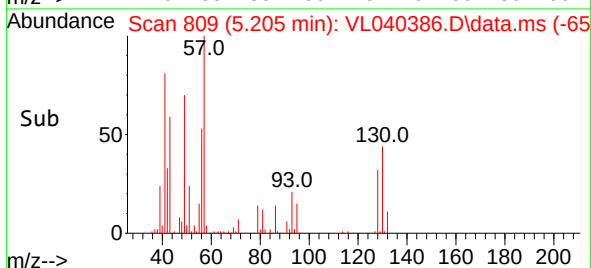
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

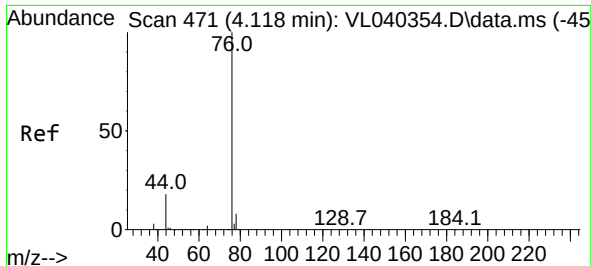


#26
Hexane
Concen: 2.604 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.003 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11



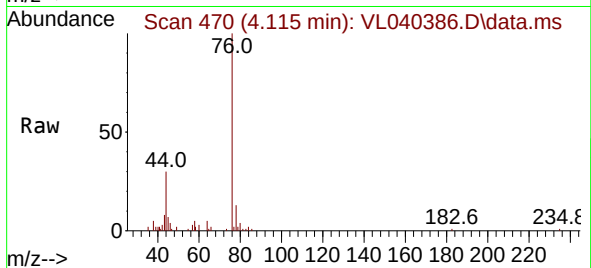
Tgt Ion: 57 Resp: 281482
Ion Ratio Lower Upper
57 100
41 97.8 74.8 112.2
43 75.5 192.7 289.1#
56 57.7 42.6 64.0





#27
Carbon Disulfide
Concen: 0.259 ppbv
RT: 4.115 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

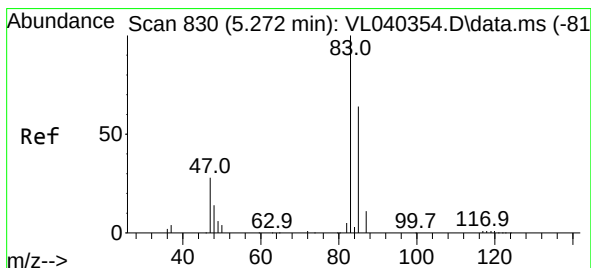
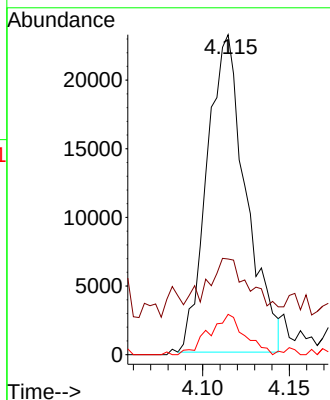
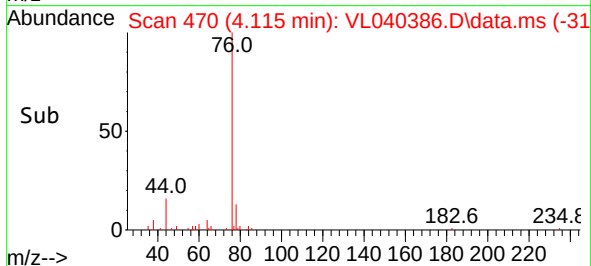
Instrument :
MSVOA_L
ClientSampleId :
VP2-A



Tgt Ion: 76 Resp: 3620
Ion Ratio Lower Upper
76 100
44 35.0 14.7 22.1
78 12.4 7.7 11.5

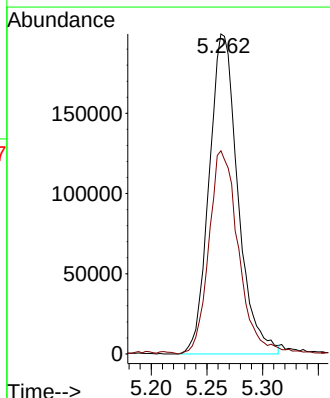
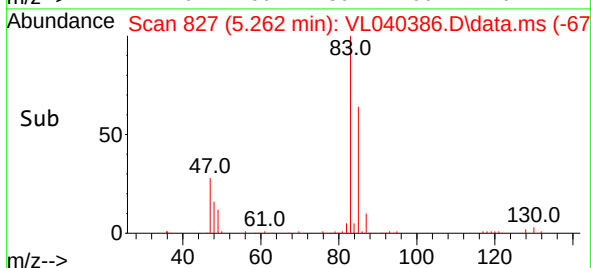
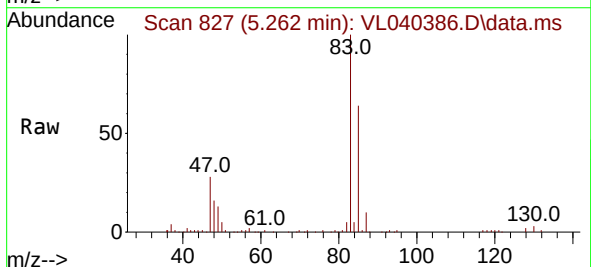
Manual Integrations
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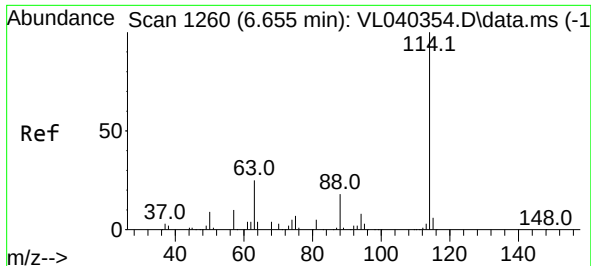
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#29
Chloroform
Concen: 1.860 ppbv
RT: 5.262 min Scan# 827
Delta R.T. -0.010 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

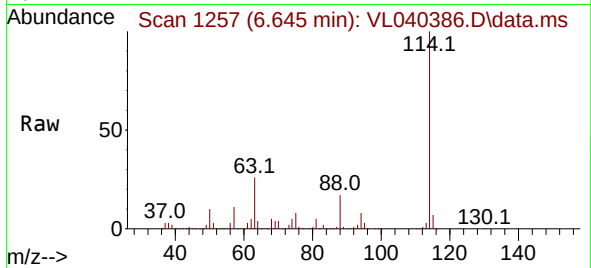
Tgt Ion: 83 Resp: 358063
Ion Ratio Lower Upper
83 100
85 63.5 51.0 76.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 114
Delta R.T. -0.010 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

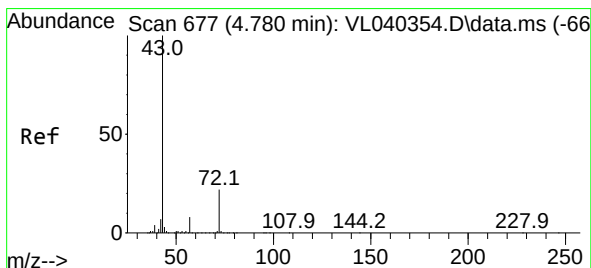
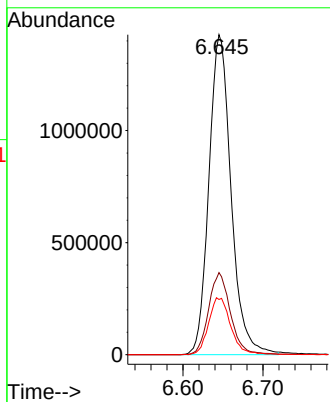
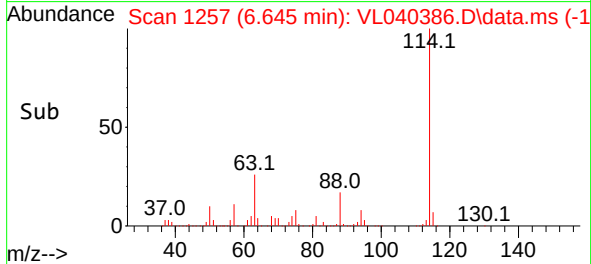
Instrument :
MSVOA_L
ClientSampleId :
VP2-A



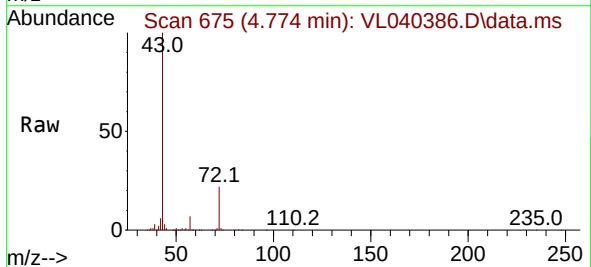
Tgt Ion:114 Resp: 2747130
Ion Ratio Lower Upper
114 100
63 25.4 21.4 32.0
88 17.9 14.6 22.0

Manual Integrations
APPROVED

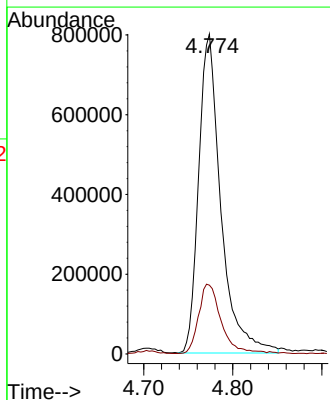
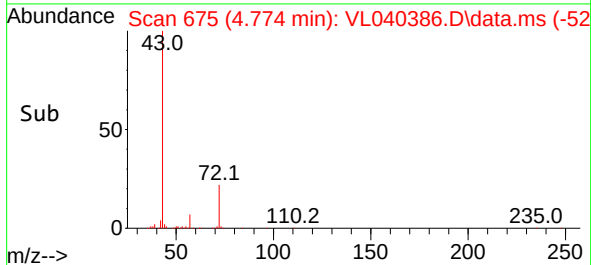
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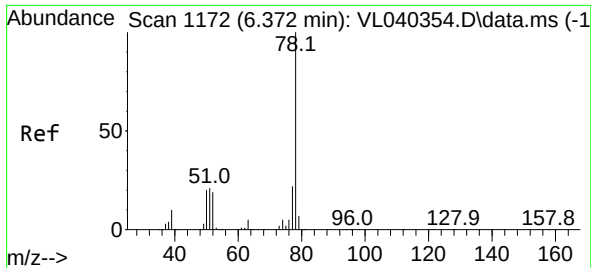


#34
2-Butanone
Concen: 9.356 ppbv
RT: 4.774 min Scan# 675
Delta R.T. -0.006 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11



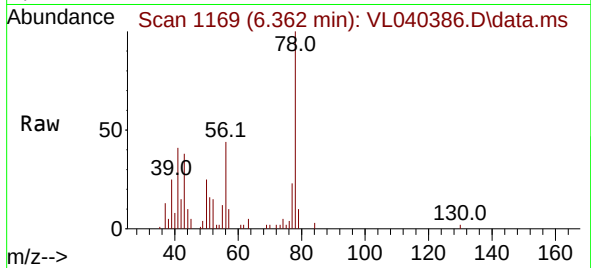
Tgt Ion: 43 Resp: 1385870
Ion Ratio Lower Upper
43 100
72 22.5 18.4 27.6





#36
Benzene
Concen: 0.145 ppbv
RT: 6.362 min Scan# 1172
Delta R.T. -0.010 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

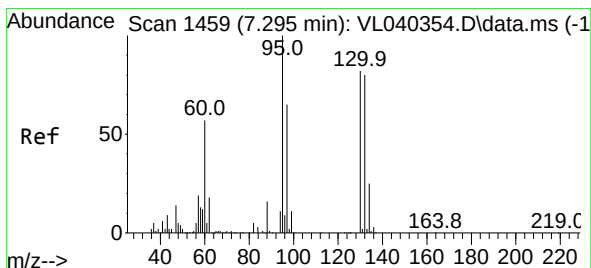
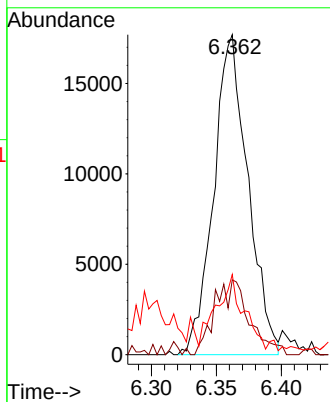
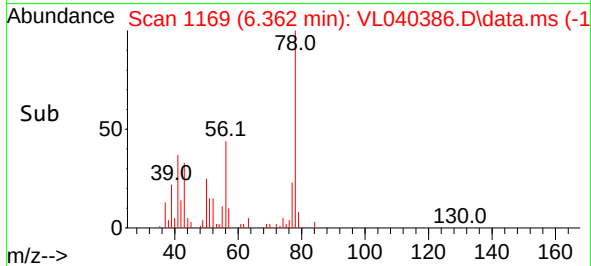
Instrument :
MSVOA_L
ClientSampleId :
VP2-A



Tgt Ion: 78 Resp: 32390
Ion Ratio Lower Upper
78 100
77 21.1 17.8 26.8
50 23.8 15.6 23.4

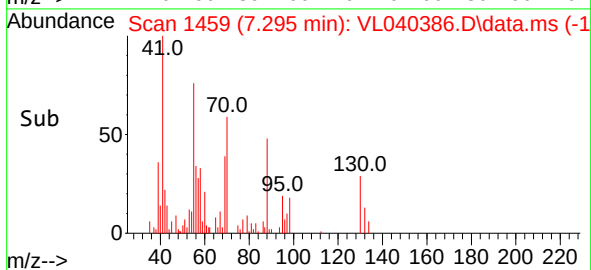
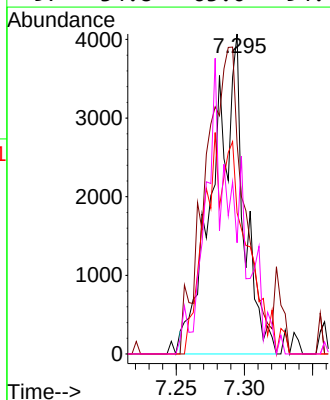
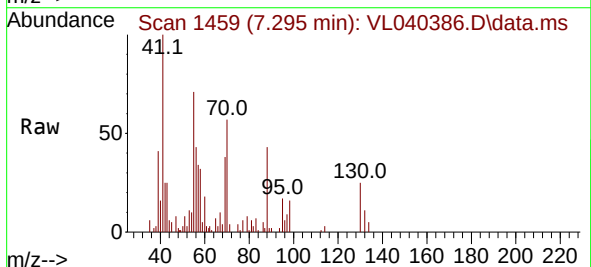
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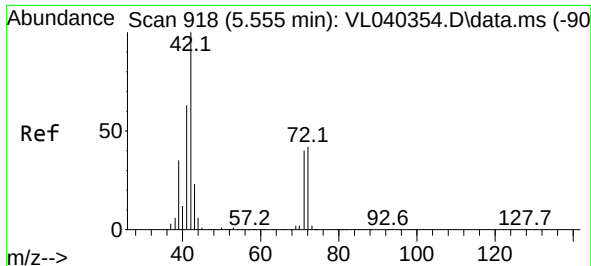
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#38
Trichloroethene
Concen: 0.049 ppbv m
RT: 7.295 min Scan# 1459
Delta R.T. -0.000 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

Tgt Ion:130 Resp: 6222
Ion Ratio Lower Upper
130 100
95 65.8 97.4 146.0#
132 44.1 77.5 116.3#
97 34.8 63.0 94.4#





#41

Tetrahydrofuran

Concen: 2.343 ppbv

RT: 5.549 min Scan# 916

Delta R.T. -0.006 min

Lab File: VL040386.D

Acq: 19 Apr 2023 19:11

Instrument :

MSVOA_L

ClientSampleId :

VP2-A

Tgt Ion: 42 Resp: 19004

Ion Ratio Lower Upper

42 100

72 42.7 33.7 50.5

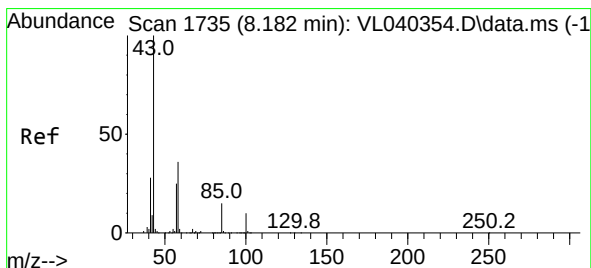
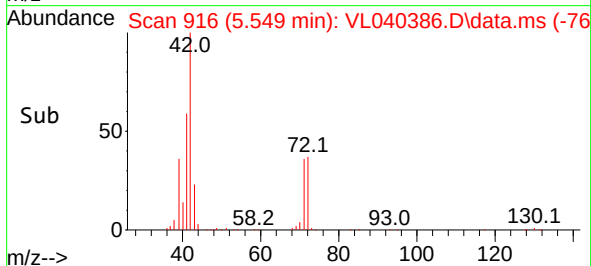
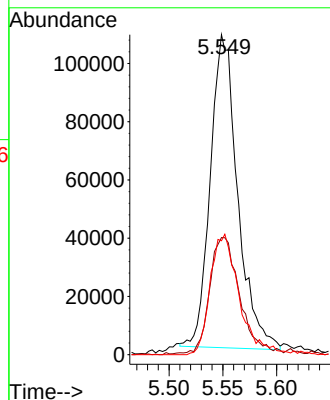
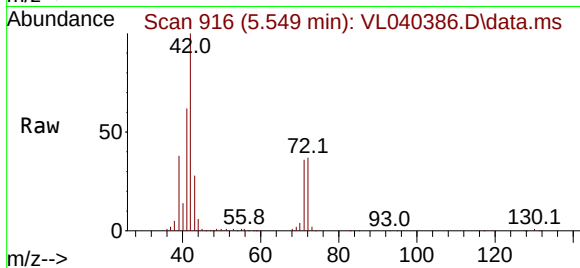
71 41.4 32.2 48.2

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Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#50

4-Methyl-2-Pentanone

Concen: 0.495 ppbv m

RT: 8.182 min Scan# 1735

Delta R.T. -0.000 min

Lab File: VL040386.D

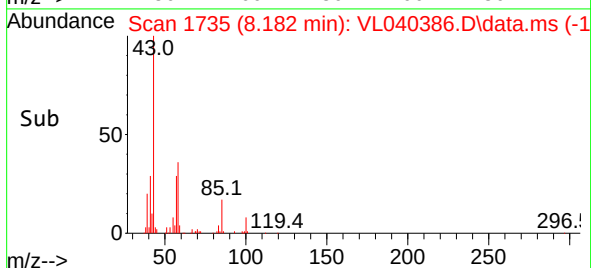
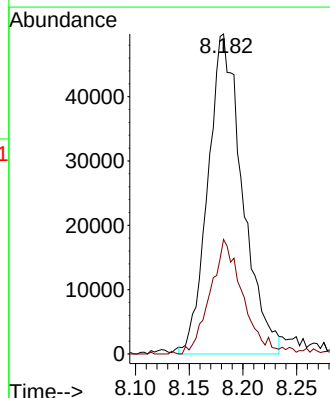
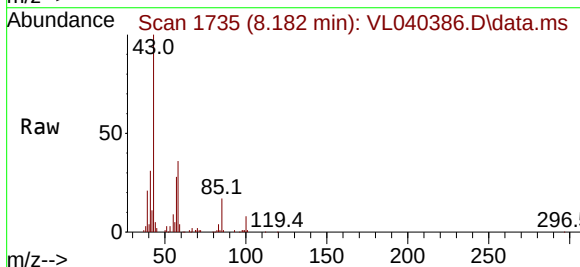
Acq: 19 Apr 2023 19:11

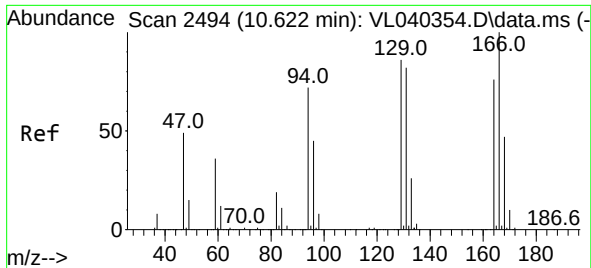
Tgt Ion: 43 Resp: 111218

Ion Ratio Lower Upper

43 100

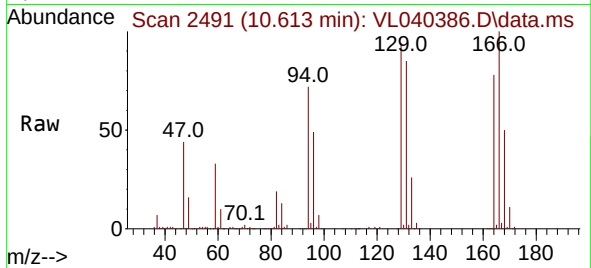
58 34.2 28.6 43.0





#52
Tetrachloroethene
Concen: 5.522 ppbv
RT: 10.613 min Scan# 2494
Delta R.T. -0.009 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

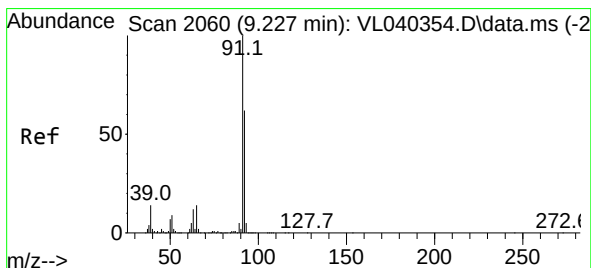
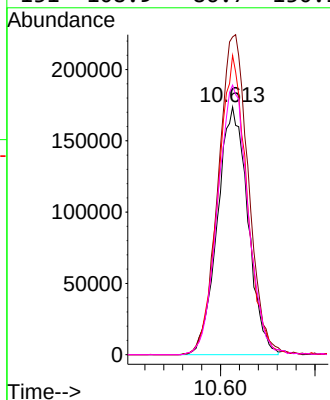
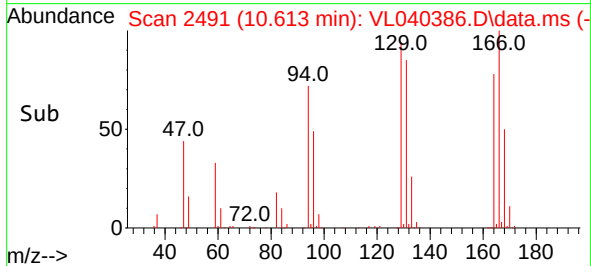
Instrument :
MSVOA_L
ClientSampleId :
VP2-A



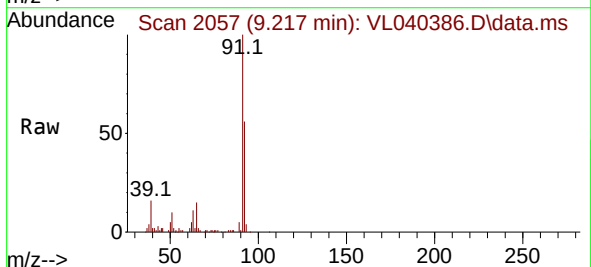
Tgt Ion:164 Resp: 38717
Ion Ratio Lower Upper
164 100
166 128.3 105.2 157.8
129 120.8 90.3 135.5
131 108.9 86.7 130.1

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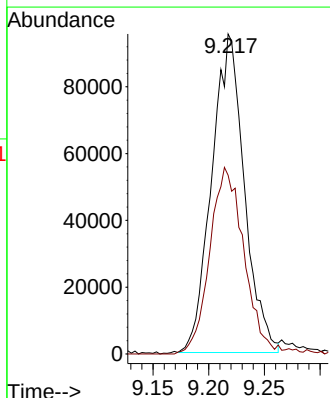
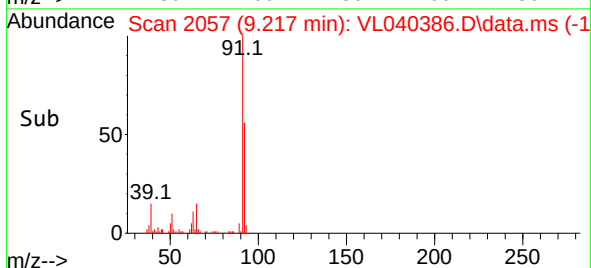
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

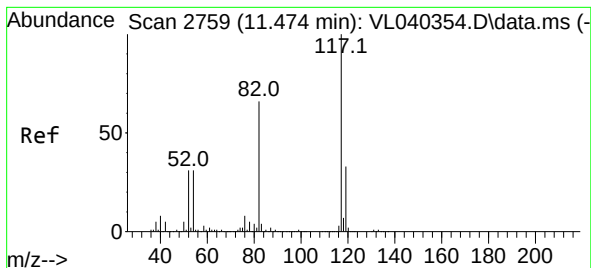


#53
Toluene
Concen: 0.818 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.010 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11



Tgt Ion: 91 Resp: 194397
Ion Ratio Lower Upper
91 100
92 62.3 48.9 73.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 21

Delta R.T. -0.009 min

Lab File: VL040386.D

Acq: 19 Apr 2023 19:11

Instrument :

MSVOA_L

ClientSampleId :

VP2-A

Tgt Ion:117 Resp: 2585298

Ion Ratio Lower Upper

117 100

82 65.8 52.5 78.7

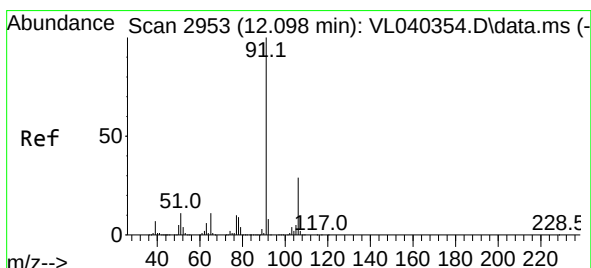
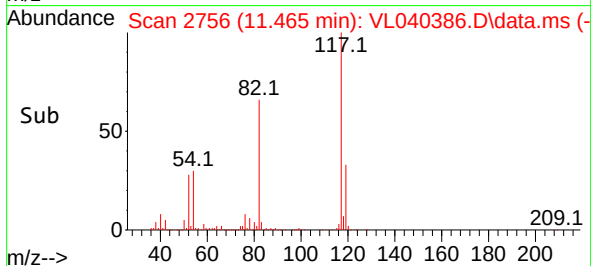
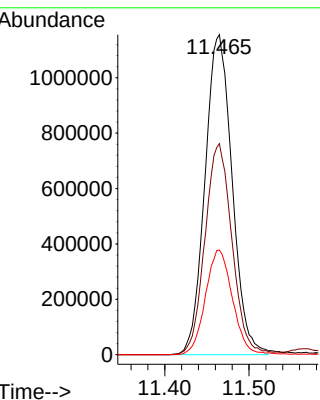
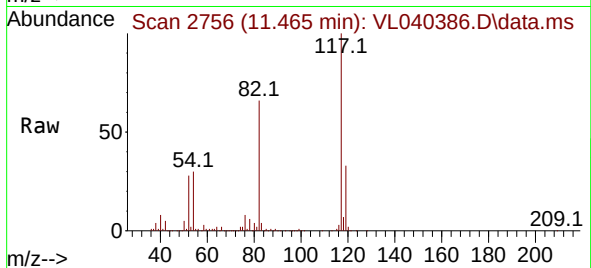
119 33.0 24.3 36.5

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Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#58

Ethyl Benzene

Concen: 0.183 ppbv

RT: 12.082 min Scan# 2948

Delta R.T. -0.016 min

Lab File: VL040386.D

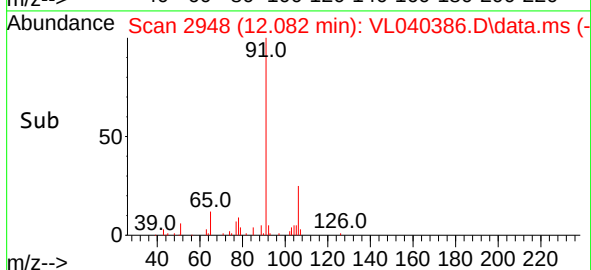
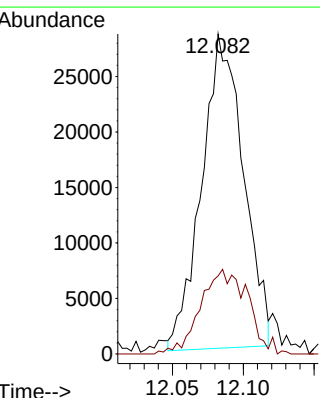
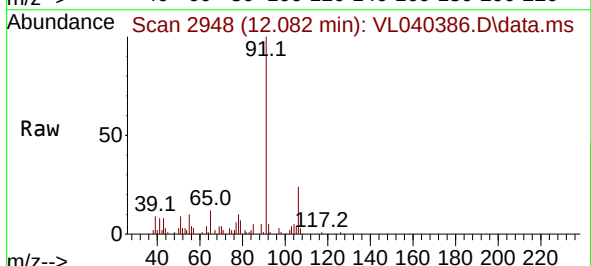
Acq: 19 Apr 2023 19:11

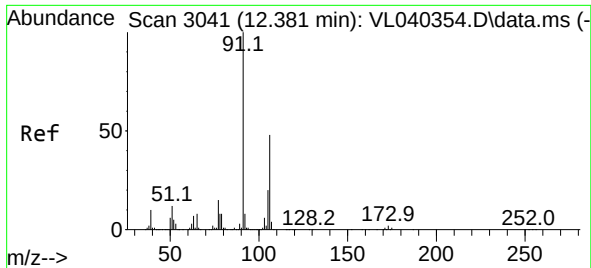
Tgt Ion: 91 Resp: 58098

Ion Ratio Lower Upper

91 100

106 23.8 23.5 35.3





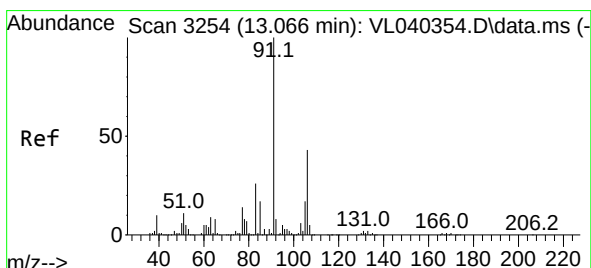
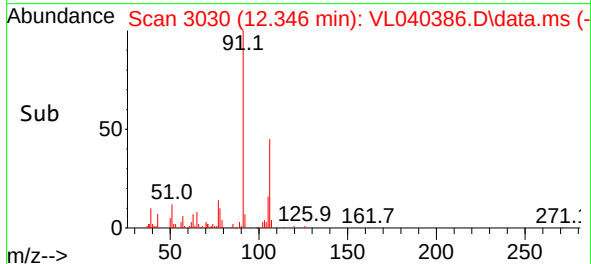
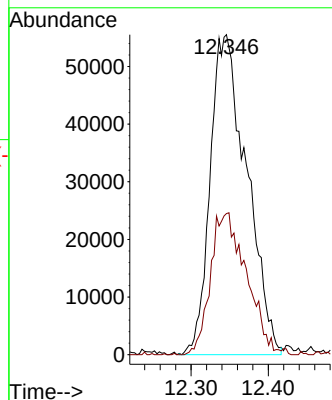
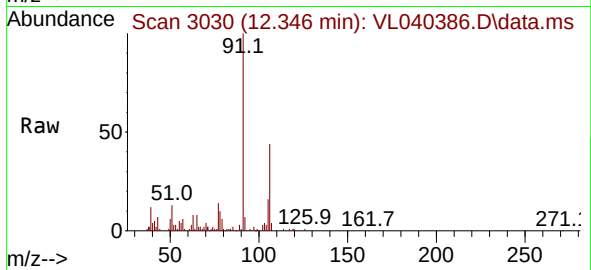
#59
m/p-Xylene
Concen: 0.624 ppbv m
RT: 12.346 min Scan# 3041
Delta R.T. -0.035 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :
VP2-A

Tgt Ion: 91 Resp: 18252
Ion Ratio Lower Upper
91 100
106 0.0 34.7 52.1

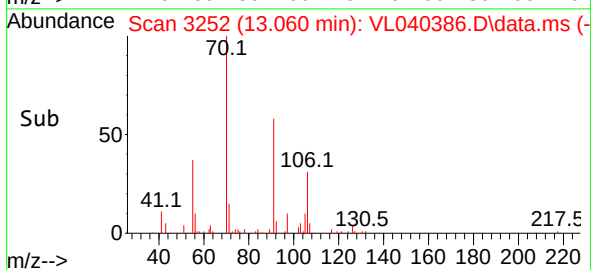
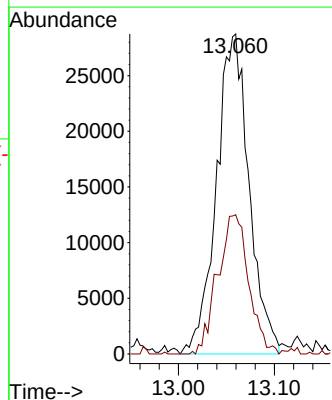
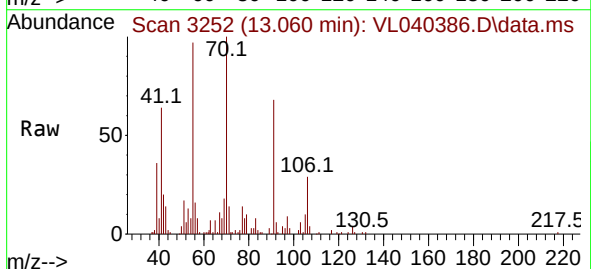
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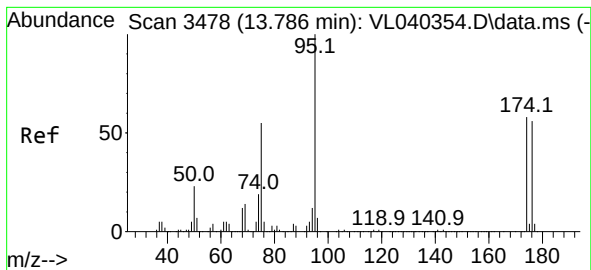
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#60
o-Xylene
Concen: 0.242 ppbv m
RT: 13.060 min Scan# 3252
Delta R.T. -0.006 min
Lab File: VL040386.D
Acq: 19 Apr 2023 19:11

Tgt Ion: 91 Resp: 67961
Ion Ratio Lower Upper
91 100
106 41.3 21.9 65.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.931 ppbv
 RT: 13.777 min Scan# 3475
 Delta R.T. -0.009 min
 Lab File: VL040386.D
 Acq: 19 Apr 2023 19:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VP2-A

Tgt Ion: 95 Resp: 212307
 Ion Ratio Lower Upper
 95 100
 174 60.0 47.2 70.8
 175 4.3 3.5 5.3

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/20/2023
 Supervised By :Mahesh Dadoda 04/22/2023

