

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
 Data File : VL039446.D
 Acq On : 12 Jul 2022 13:11
 Operator : SY/AP
 Sample : N3614-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-9DDUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022
 Supervised By :Mahesh Dadoda 07/20/2022

Quant Time: Jul 13 01:33:09 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 13 11:28:15 2022

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

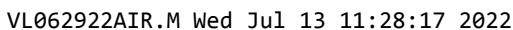
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

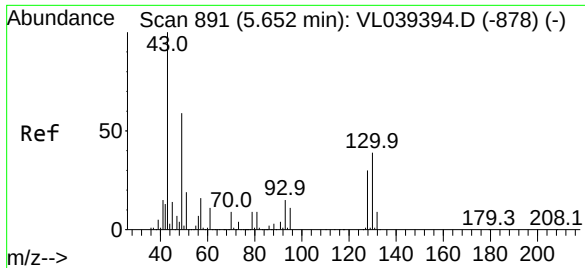
Internal Standards						
1) Bromochloromethane	5.684	49	1234337	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.195	114	3430956	10.000	ppbv	0.04
55) Chlorobenzene-d5	12.105	117	3125150	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.433	95	2459193	10.607	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.063	85	35252	0.198	ppbv	98
3) Chlorodifluoromethane	2.980	51	157335	1.005	ppbv #	71
4) Chloromethane	3.153	50	49382	0.577	ppbv	99
5) Vinyl Chloride	3.282	62	2692m	0.032	ppbv	
9) Propene	3.038	41	97634m	1.381	ppbv	
10) Heptane	8.147	43	24229	0.146	ppbv	86
11) Trichlorofluoromethane	3.973	101	44072	0.222	ppbv	94
13) Ethanol	3.629	45	17454619	4254.055	ppbv	81
15) Acetone	3.864	43	3016437	20.656	ppbv	94
17) tert-Butyl alcohol	4.324	59	66110	0.533	ppbv #	71
19) Isopropyl Alcohol	3.996	45	1118053	14.354	ppbv #	95
20) Methylene Chloride	4.359	84	136895	2.352	ppbv	95
25) Ethyl Acetate	5.687	43	2340897	7.818	ppbv	98
29) Chloroform	5.771	83	365960	1.744	ppbv	92
30) Cyclohexane	7.150	84	17154m	0.156	ppbv	
34) 2-Butanone	5.259	43	155262	0.899	ppbv #	90
35) Carbon Tetrachloride	7.044	117	14962m	0.071	ppbv	
36) Benzene	6.909	78	65119	0.245	ppbv	98
44) 2,2,4-Trimethylpentane	7.886	57	64599	0.144	ppbv #	80
53) Toluene	9.822	91	154767	0.505	ppbv	99
58) Ethyl Benzene	12.732	91	43489	0.108	ppbv	94
59) m/p-Xylene	12.979	91	130560m	0.367	ppbv	
60) o-Xylene	13.703	91	51530	0.153	ppbv	97
69) p-Isopropyltoluene	17.664	119	88564m	0.163	ppbv	

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

Manual Integrations
APPROVED

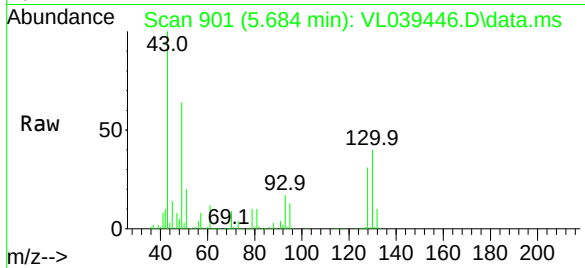
Quant Time: Jul 13 01:33:09 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.684 min Scan# 901
Delta R.T. 0.032 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

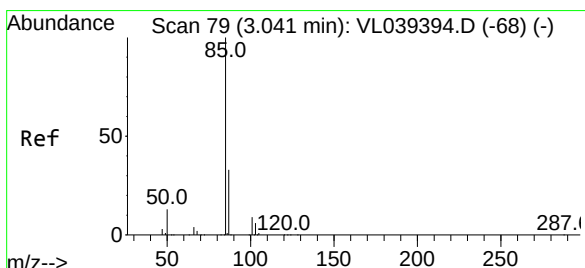
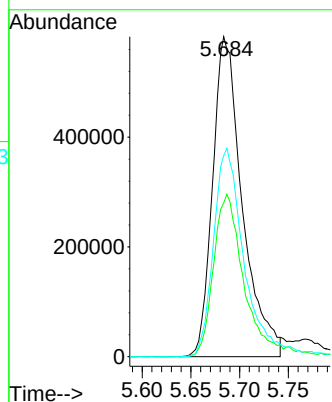
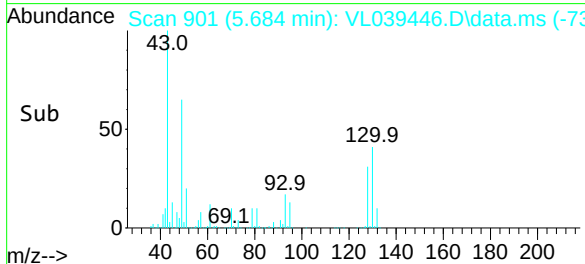
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



Tgt Ion: 49 Resp: 123433
Ion Ratio Lower Upper
49 100
128 54.0 26.7 80.0
130 69.7 34.3 102.8

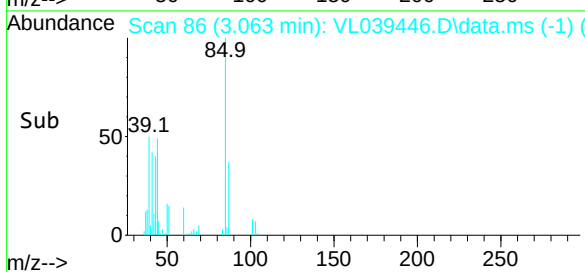
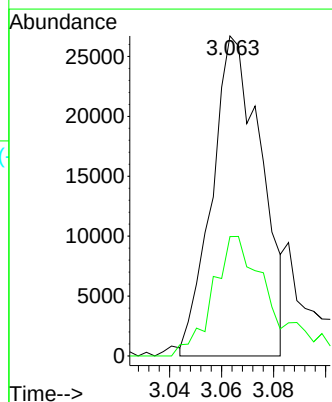
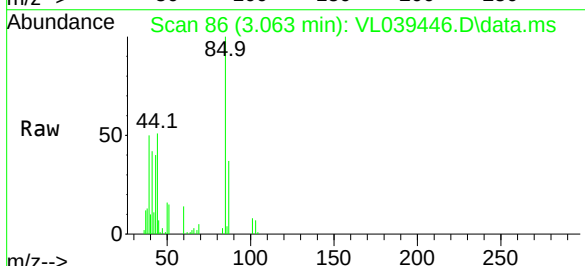
Manual Integrations
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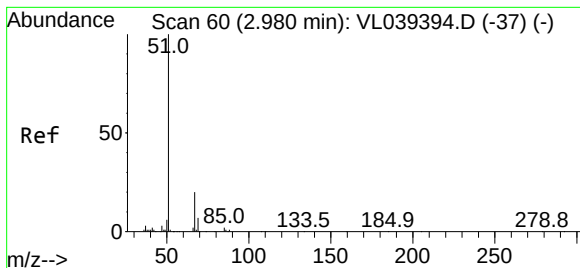
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#2
Dichlorodifluoromethane
Concen: 0.198 ppbv
RT: 3.063 min Scan# 86
Delta R.T. 0.022 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

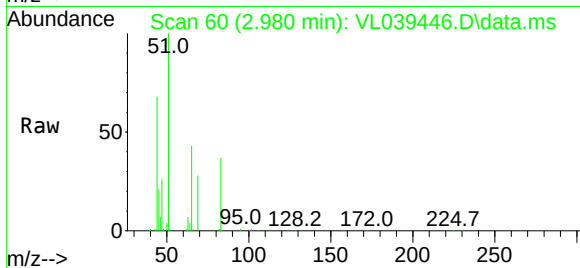
Tgt Ion: 85 Resp: 35252
Ion Ratio Lower Upper
85 100
87 34.6 26.7 40.1





#3
Chlorodifluoromethane
Concen: 1.005 ppbv
RT: 2.980 min Scan# 60
Delta R.T. -0.000 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

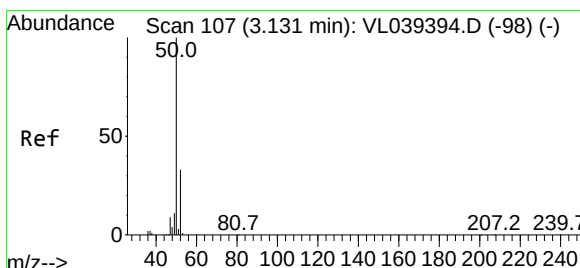
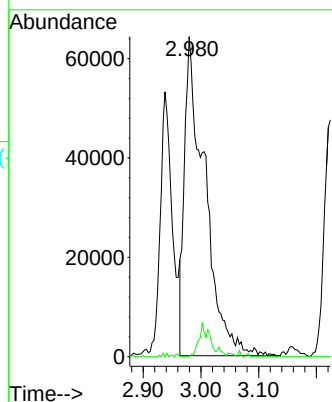
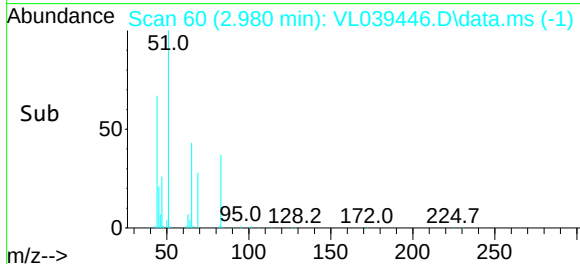
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



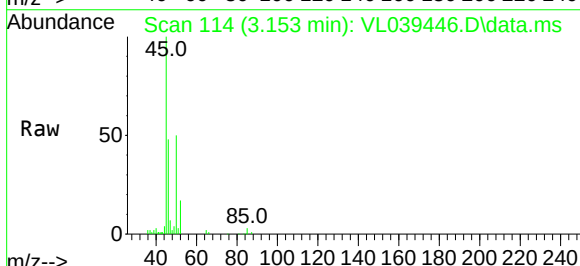
Tgt Ion: 51 Resp: 15733
Ion Ratio Lower Upper
51 100
67 6.6 15.7 23.5

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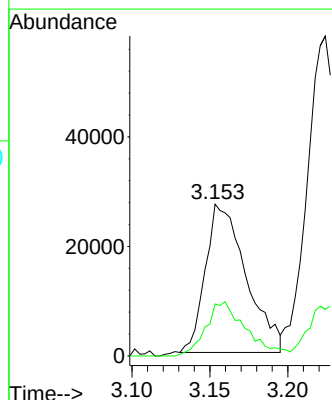
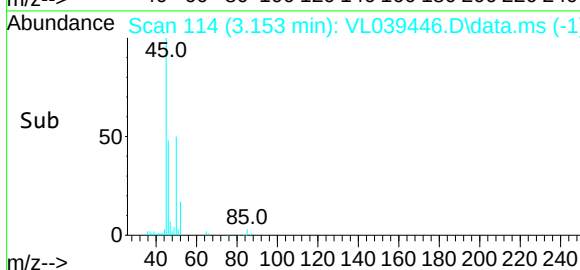
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022

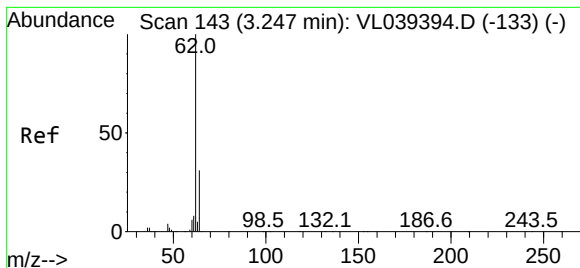


#4
Chloromethane
Concen: 0.577 ppbv
RT: 3.153 min Scan# 114
Delta R.T. 0.022 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11



Tgt Ion: 50 Resp: 49382
Ion Ratio Lower Upper
50 100
52 33.9 26.5 39.7





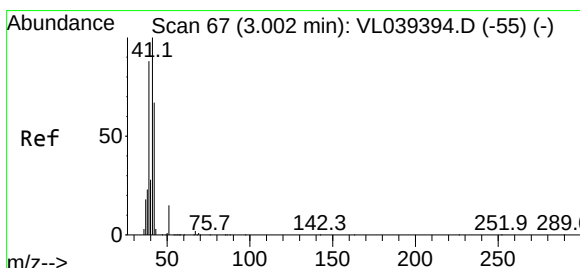
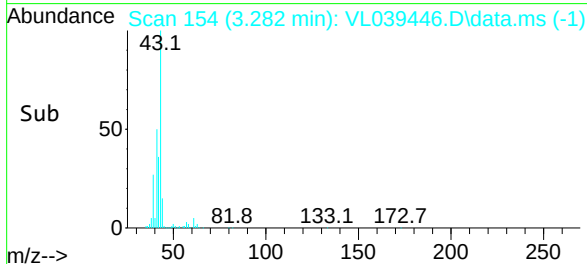
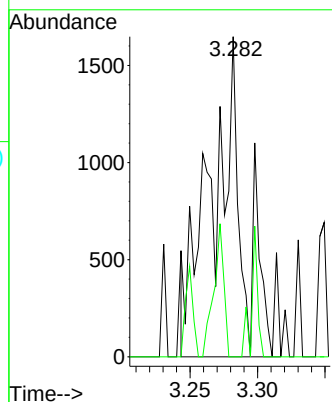
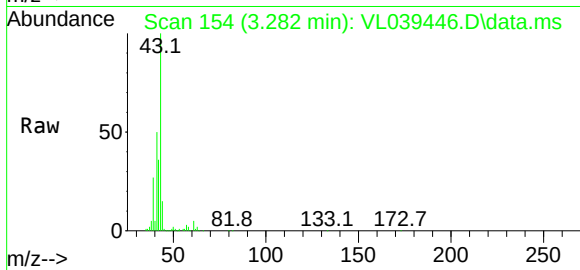
#5
 Vinyl Chloride
 Concen: 0.032 ppbv m
 RT: 3.282 min Scan# 11
 Delta R.T. 0.035 min
 Lab File: VL039446.D
 Acq: 12 Jul 2022 13:11

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-9DDUP

Tgt Ion: 62 Resp: 2692
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.6 36.8

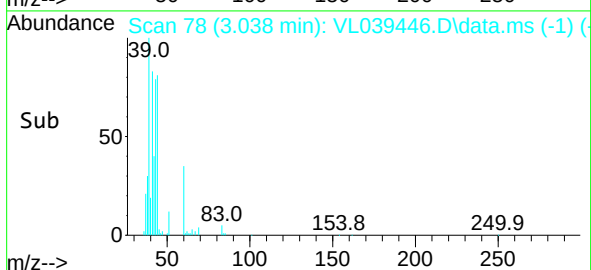
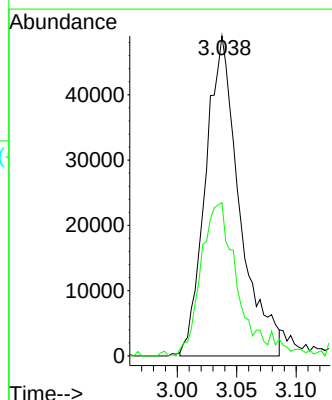
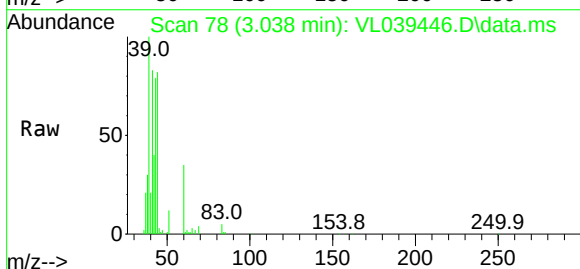
Manual Integrations
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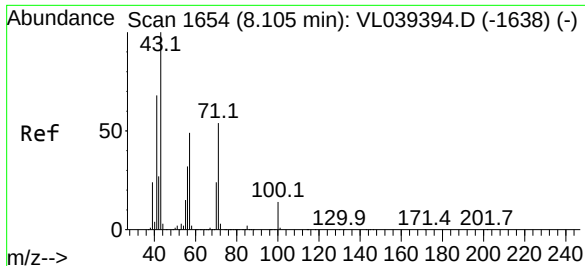
Reviewed By :Semsettin Yesilyurt 07/20/2022
 Supervised By :Mahesh Dadoda 07/20/2022



#9
 Propene
 Concen: 1.381 ppbv m
 RT: 3.038 min Scan# 78
 Delta R.T. 0.035 min
 Lab File: VL039446.D
 Acq: 12 Jul 2022 13:11

Tgt Ion: 41 Resp: 97634
 Ion Ratio Lower Upper
 41 100
 42 2435.2 55.2 82.8





#10

Heptane

Concen: 0.146 ppbv

RT: 8.147 min Scan# 1

Delta R.T. 0.042 min

Lab File: VL039446.D

Acq: 12 Jul 2022 13:11

Instrument :

MSVOA_L

ClientSampleId :

IA-9DDUP

Tgt Ion: 43 Resp: 24229

Ion Ratio Lower Upper

43 100

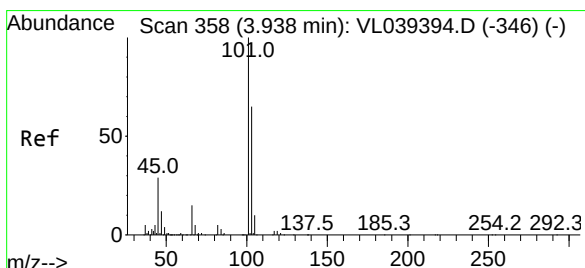
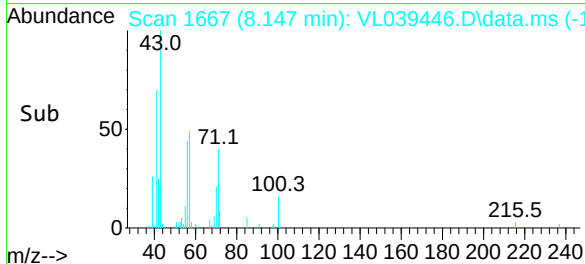
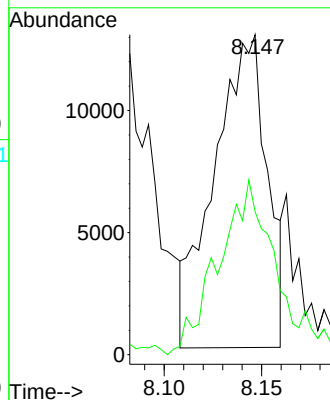
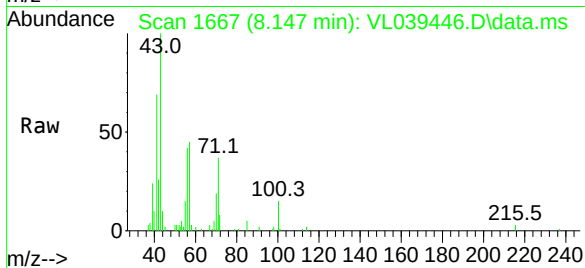
57 60.2 40.5 60.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022

Supervised By :Mahesh Dadoda 07/20/2022



#11

Trichlorofluoromethane

Concen: 0.222 ppbv

RT: 3.973 min Scan# 369

Delta R.T. 0.035 min

Lab File: VL039446.D

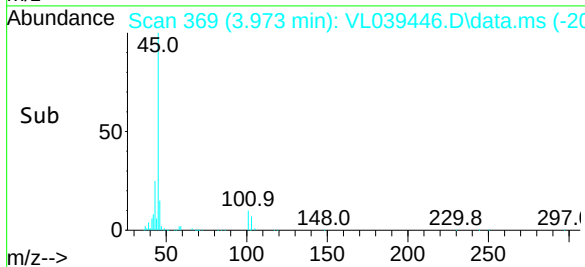
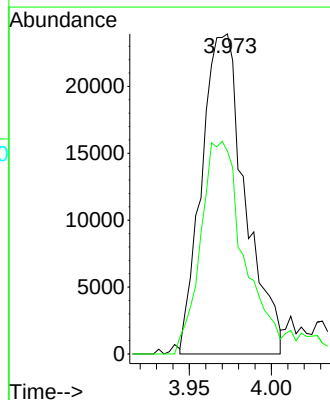
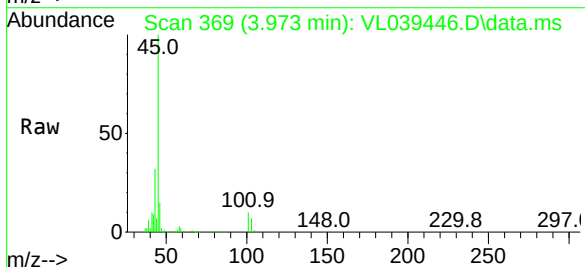
Acq: 12 Jul 2022 13:11

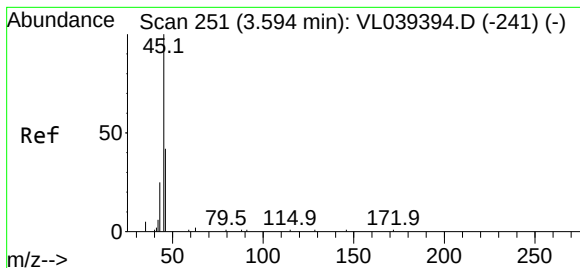
Tgt Ion:101 Resp: 44072

Ion Ratio Lower Upper

101 100

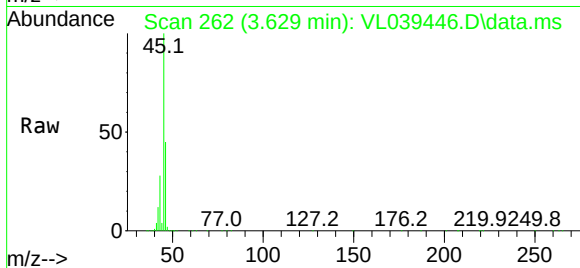
103 59.7 51.8 77.8





#13
Ethanol
Concen: 4254.055 ppbv
RT: 3.629 min Scan# 20
Delta R.T. 0.035 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

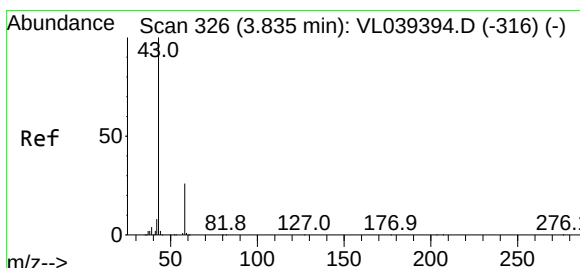
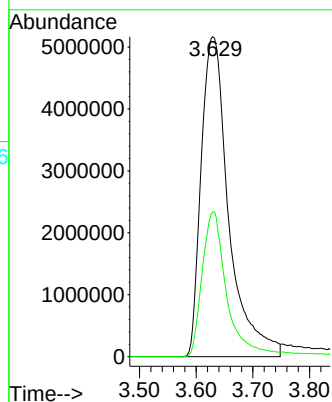
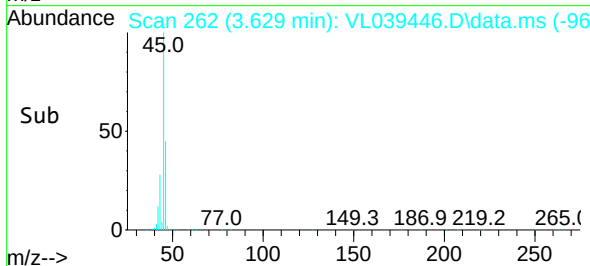
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



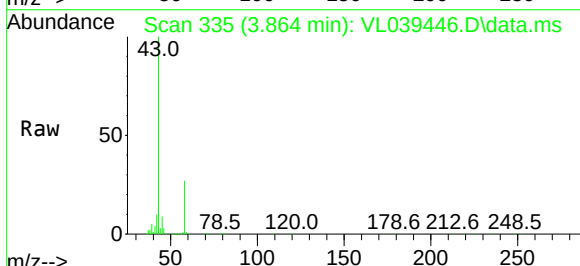
Tgt Ion: 45 Resp: 17454619
Ion Ratio Lower Upper
45 100
46 42.7 22.8 91.2

Manual Integrations
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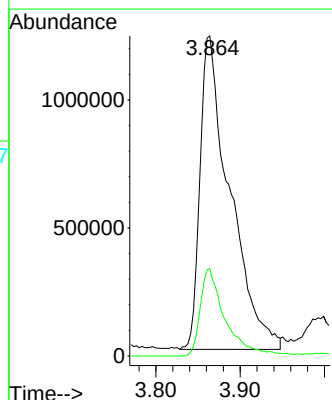
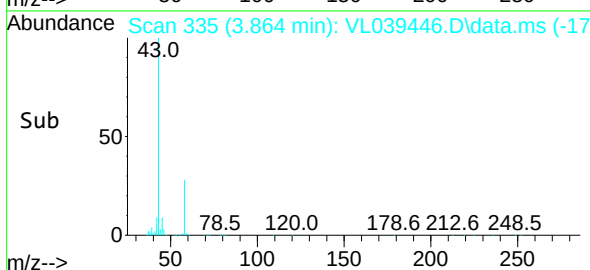
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022

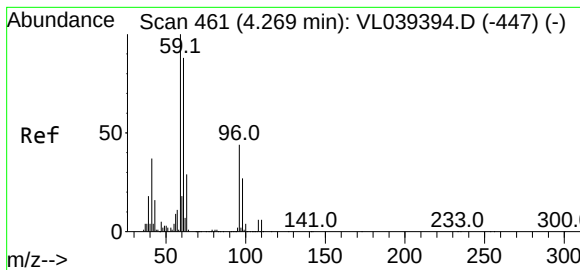


#15
Acetone
Concen: 20.656 ppbv
RT: 3.864 min Scan# 335
Delta R.T. 0.029 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11



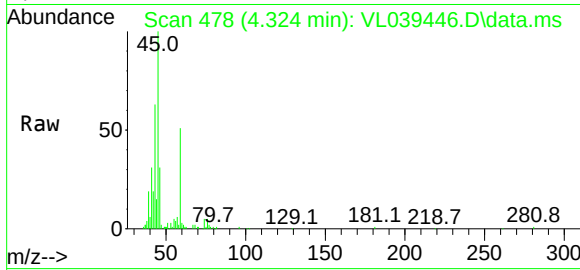
Tgt Ion: 43 Resp: 3016437
Ion Ratio Lower Upper
43 100
58 23.3 21.0 31.6





#17
tert-Butyl alcohol
Concen: 0.533 ppbv
RT: 4.324 min Scan# 41
Delta R.T. 0.055 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

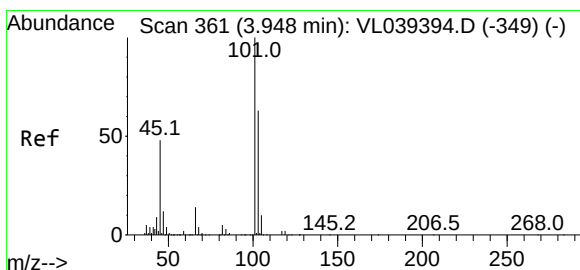
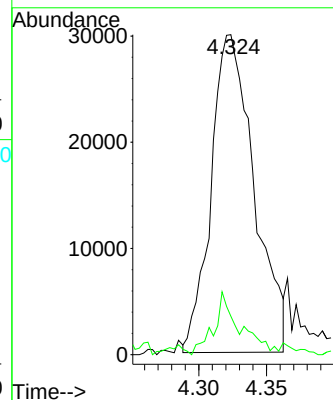
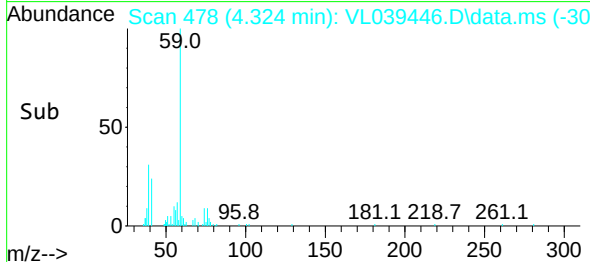
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



Tgt Ion: 59 Resp: 66110
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1

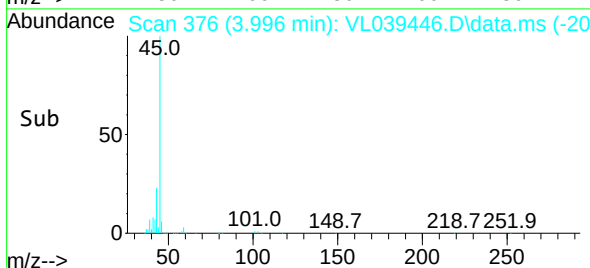
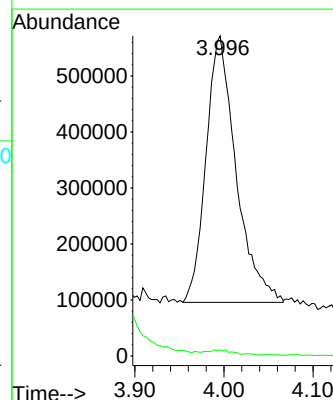
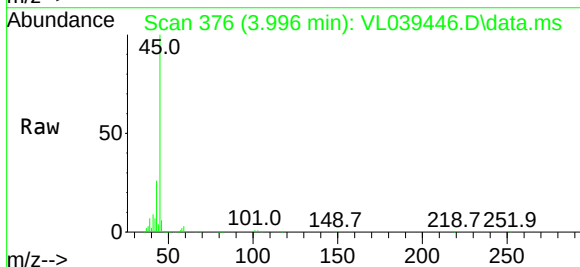
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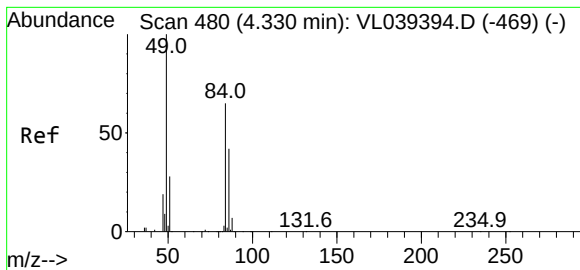
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#19
Isopropyl Alcohol
Concen: 14.354 ppbv
RT: 3.996 min Scan# 376
Delta R.T. 0.048 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

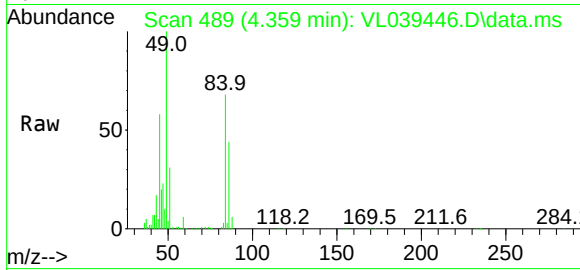
Tgt Ion: 45 Resp: 1118053
Ion Ratio Lower Upper
45 100
58 2.2 3.2 4.8





#20
Methylene Chloride
Concen: 2.352 ppbv
RT: 4.359 min Scan# 41
Delta R.T. 0.029 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

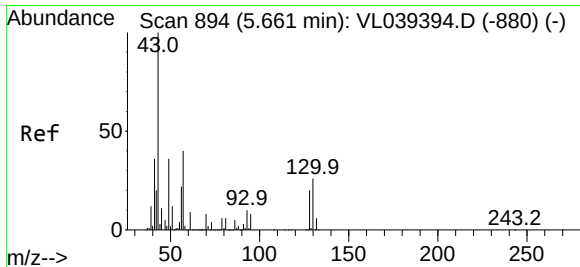
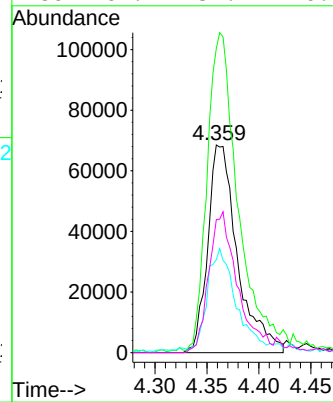
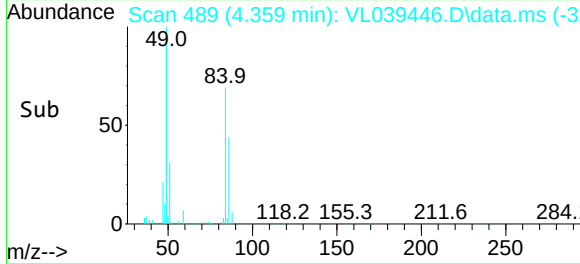
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



Tgt Ion: 84 Resp: 13689
Ion Ratio Lower Upper
84 100
49 143.9 123.1 184.7
51 42.5 34.4 51.6
86 64.1 51.1 76.7

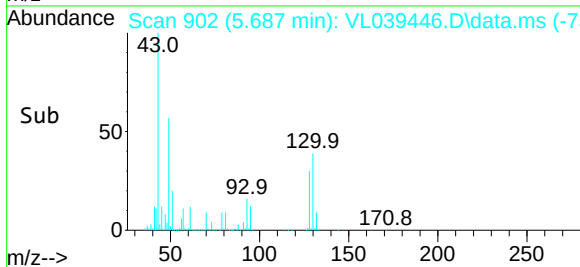
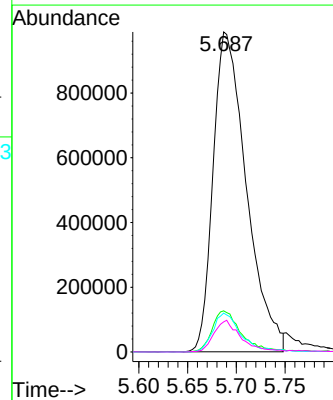
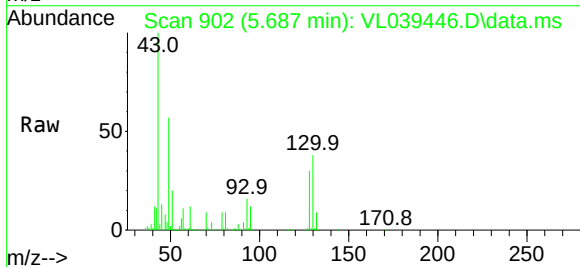
Manual Integrations
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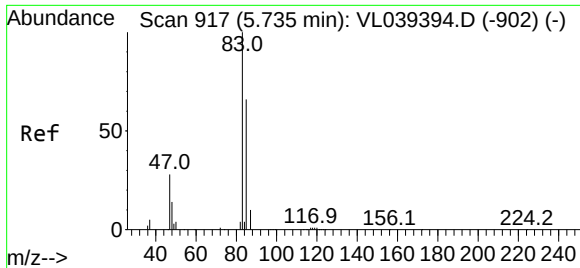
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#25
Ethyl Acetate
Concen: 7.818 ppbv
RT: 5.687 min Scan# 902
Delta R.T. 0.026 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

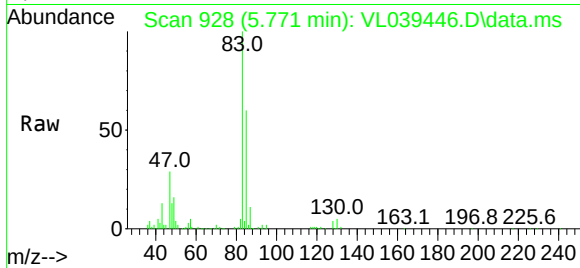
Tgt Ion: 43 Resp: 2340897
Ion Ratio Lower Upper
43 100
45 11.7 8.2 12.4
61 10.6 8.3 12.5
70 8.5 5.9 8.9





#29
Chloroform
Concen: 1.744 ppbv
RT: 5.771 min Scan# 917
Delta R.T. 0.035 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

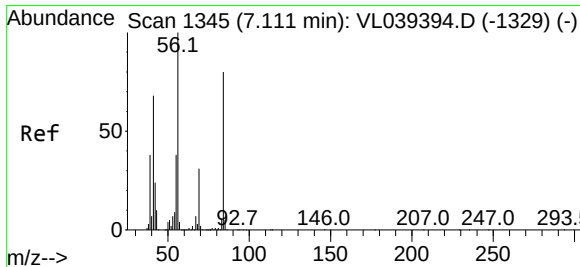
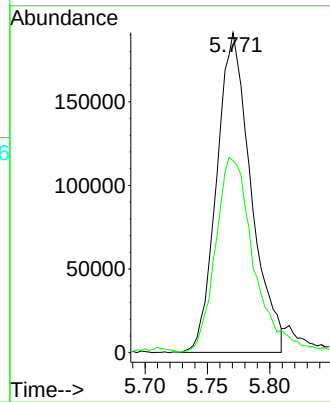
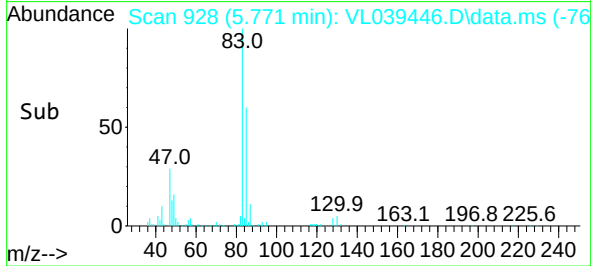
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



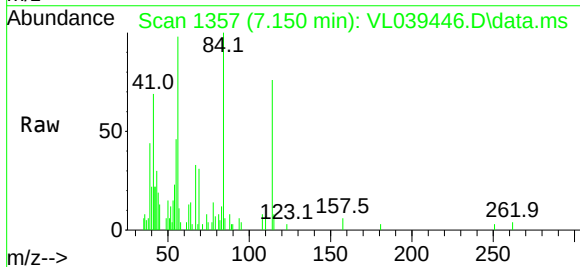
Tgt Ion: 83 Resp: 365960
Ion Ratio Lower Upper
83 100
85 59.9 52.8 79.2

Manual Integrations
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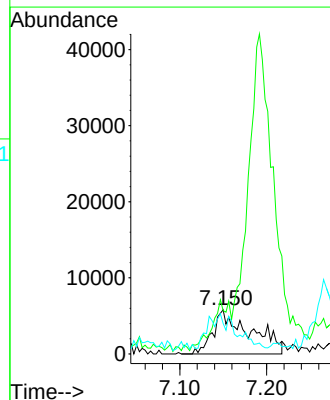
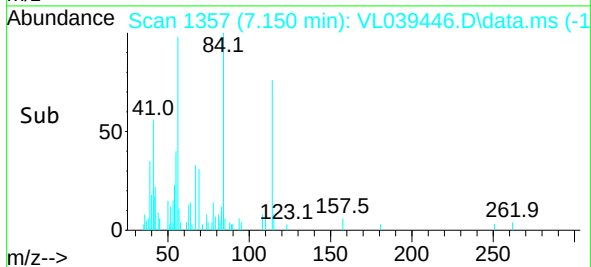
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022

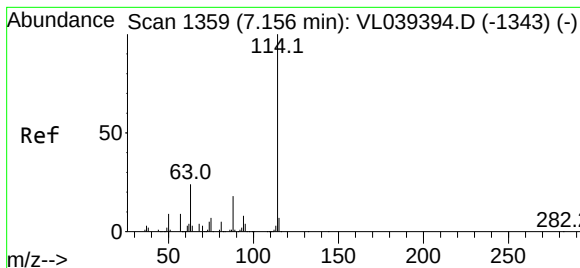


#30
Cyclohexane
Concen: 0.156 ppbv m
RT: 7.150 min Scan# 1357
Delta R.T. 0.038 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11



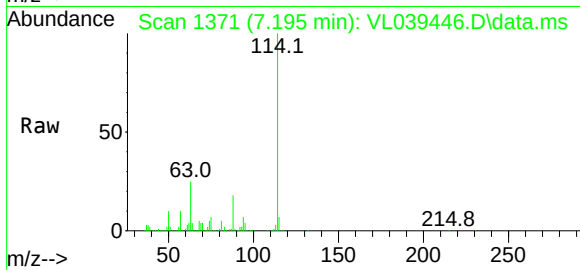
Tgt Ion: 84 Resp: 17154
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 71.1 67.7 101.5





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.195 min Scan# 114
Delta R.T. 0.038 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

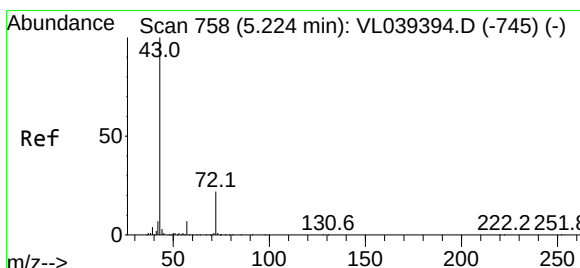
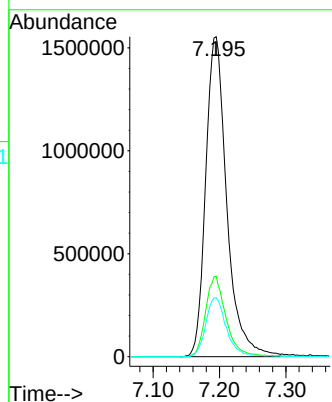
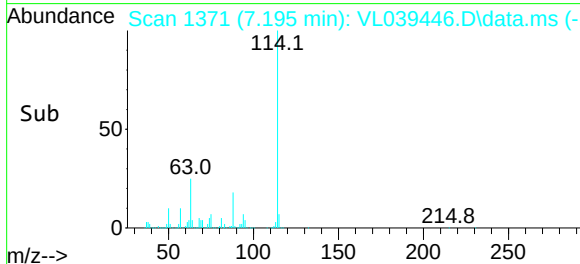
Instrument : MSVOA_L
ClientSampleId : IA-9DDUP



Tgt Ion:114 Resp: 3430950
Ion Ratio Lower Upper
114 100
63 24.7 20.2 30.4
88 18.4 14.5 21.7

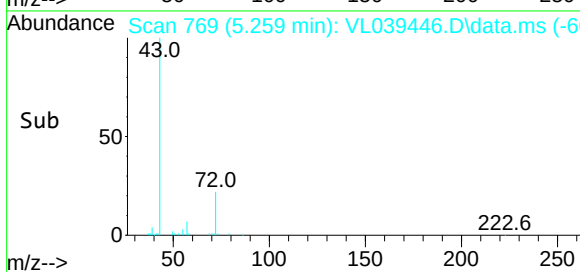
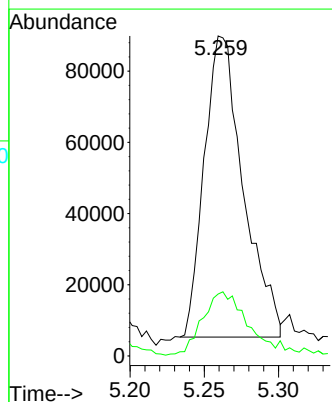
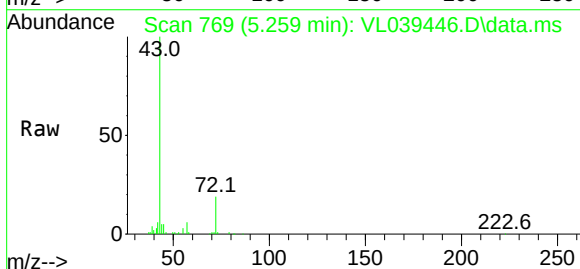
Manual Integrations
APPROVED

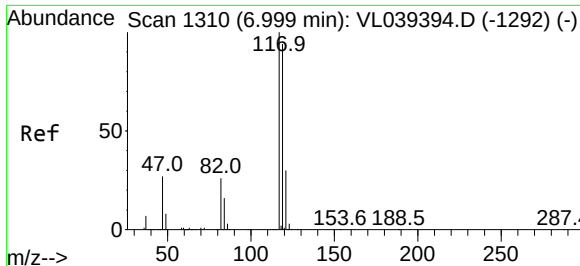
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#34
2-Butanone
Concen: 0.899 ppbv
RT: 5.259 min Scan# 769
Delta R.T. 0.035 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

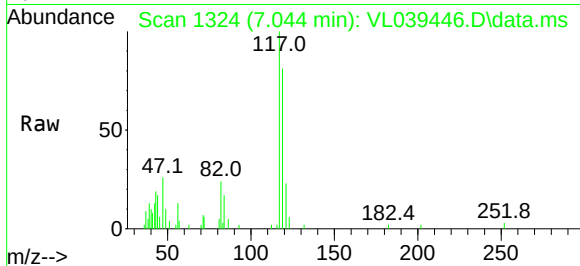
Tgt Ion: 43 Resp: 155262
Ion Ratio Lower Upper
43 100
72 27.3 17.9 26.9





#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 7.044 min Scan# 11
Delta R.T. 0.045 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

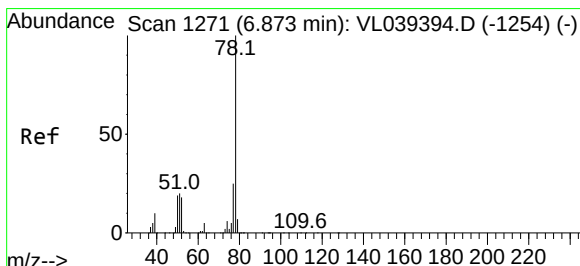
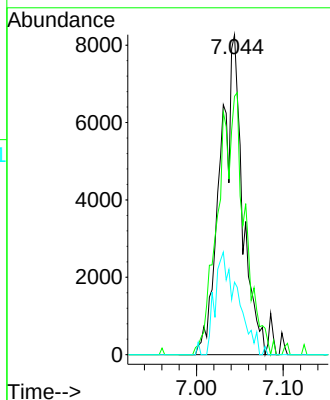
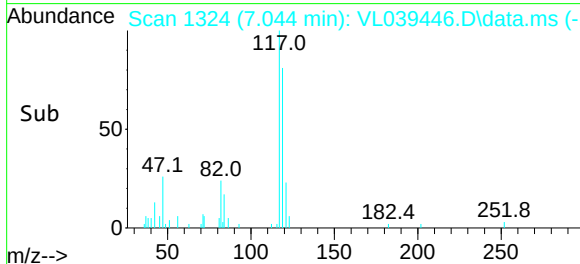
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



Tgt Ion: 117 Resp: 14962
Ion Ratio Lower Upper
117 100
119 80.7 75.4 113.2
121 22.7 24.2 36.2

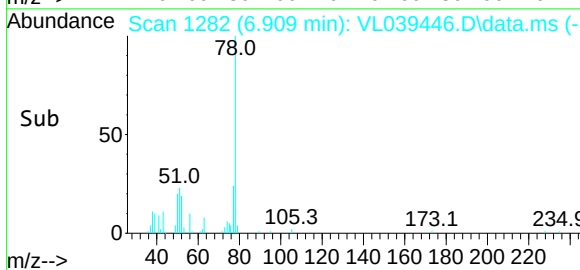
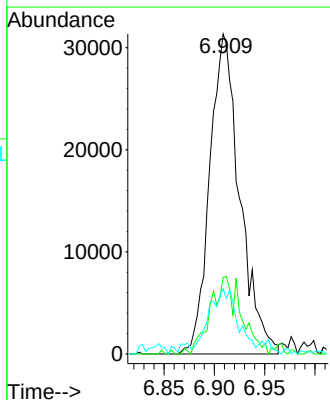
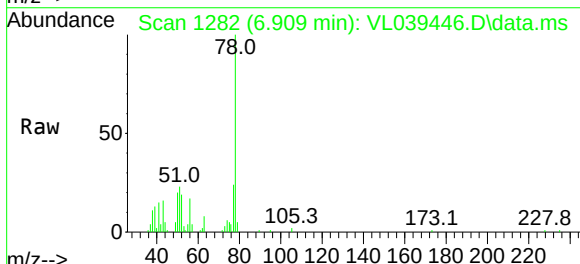
Manual Integrations
APPROVED

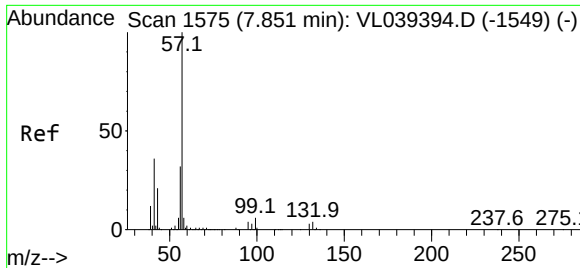
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#36
Benzene
Concen: 0.245 ppbv
RT: 6.909 min Scan# 1282
Delta R.T. 0.035 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

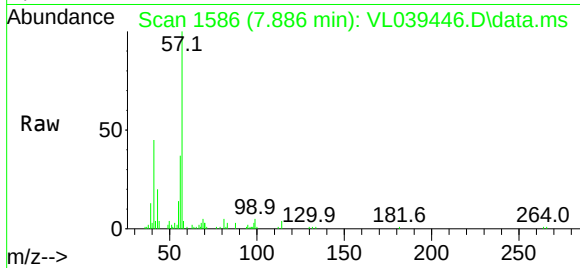
Tgt Ion: 78 Resp: 65119
Ion Ratio Lower Upper
78 100
77 23.9 20.3 30.5
50 19.5 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 0.144 ppbv
RT: 7.886 min Scan# 11
Delta R.T. 0.035 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

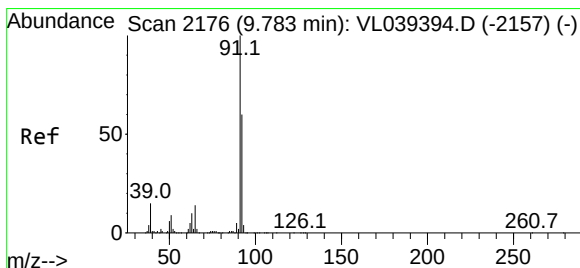
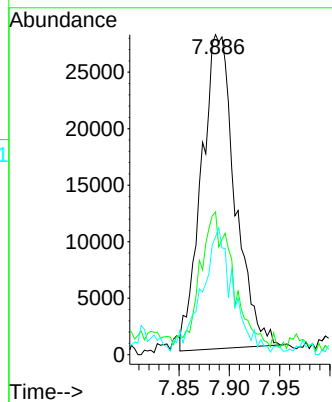
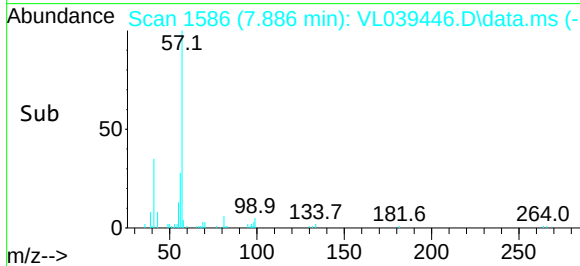
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



Tgt Ion: 57 Resp: 6459
Ion Ratio Lower Upper
57 100
41 47.1 27.4 41.2
56 40.0 24.5 36.7

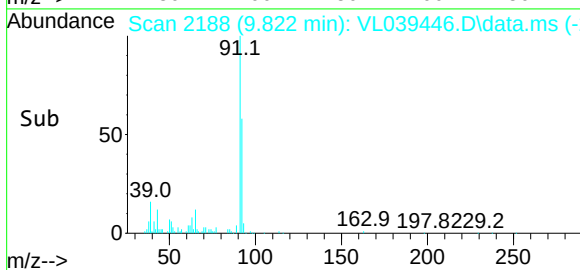
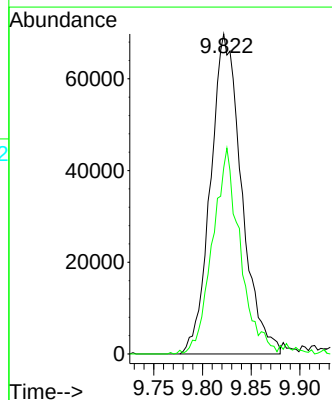
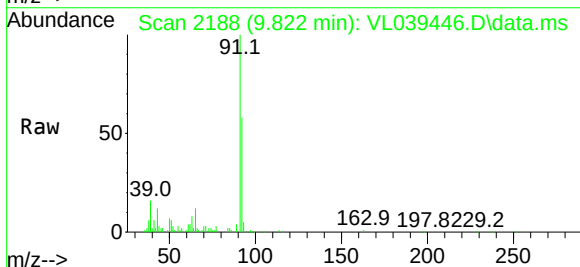
Manual Integrations
APPROVED

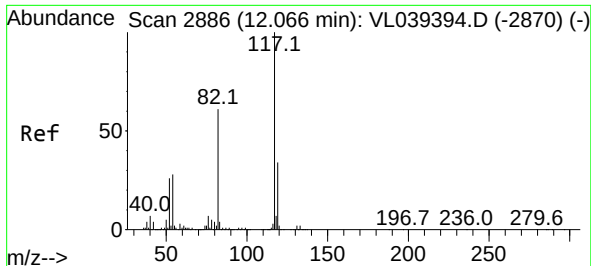
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022



#53
Toluene
Concen: 0.505 ppbv
RT: 9.822 min Scan# 2188
Delta R.T. 0.038 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

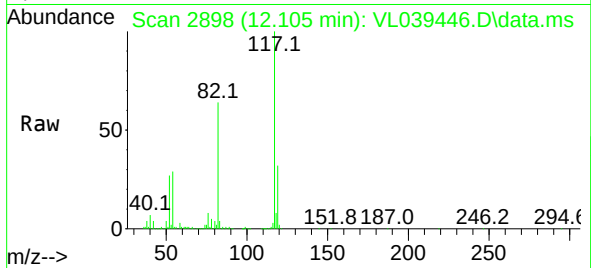
Tgt Ion: 91 Resp: 154767
Ion Ratio Lower Upper
91 100
92 59.2 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.105 min Scan# 2898
Delta R.T. 0.038 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11

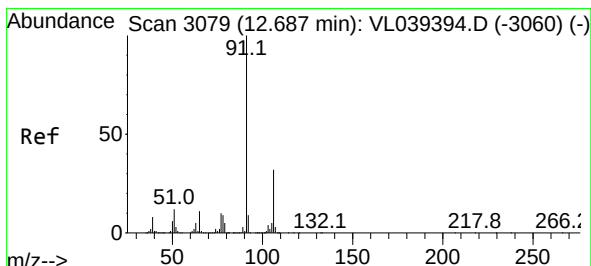
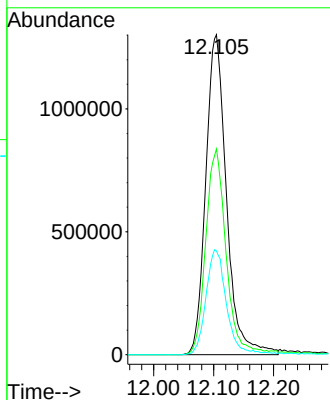
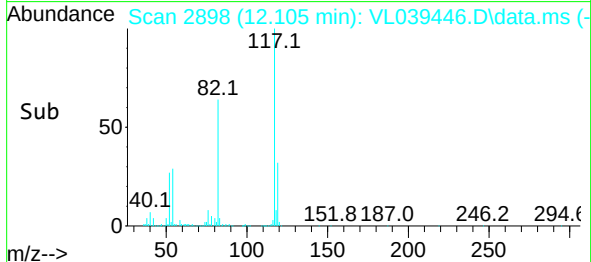
Instrument :
MSVOA_L
ClientSampleId :
IA-9DDUP



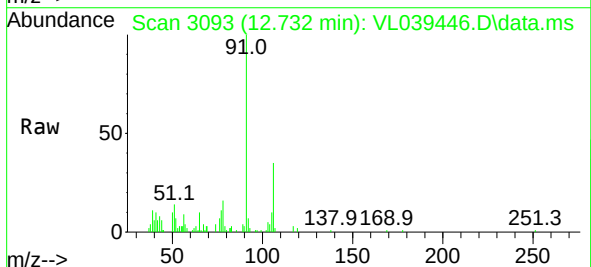
Tgt Ion: 117 Resp: 3125150
Ion Ratio Lower Upper
117 100
82 64.4 50.8 76.2
119 32.6 24.1 36.1

Manual Integrations
APPROVED

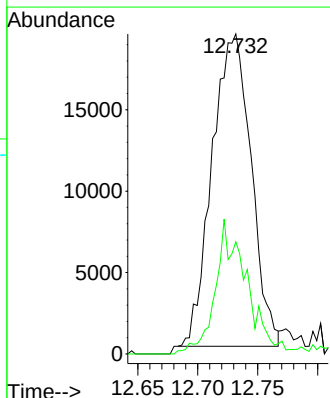
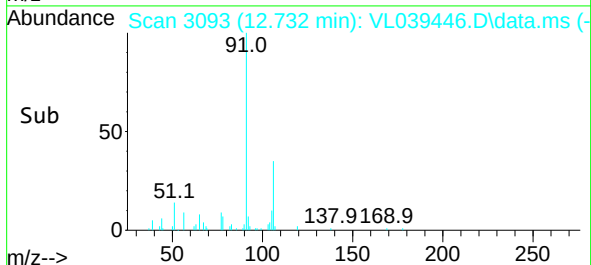
Reviewed By :Semsettin Yesilyurt 07/20/2022
Supervised By :Mahesh Dadoda 07/20/2022

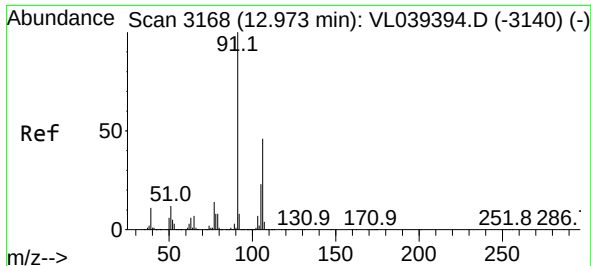


#58
Ethyl Benzene
Concen: 0.108 ppbv
RT: 12.732 min Scan# 3093
Delta R.T. 0.045 min
Lab File: VL039446.D
Acq: 12 Jul 2022 13:11



Tgt Ion: 91 Resp: 43489
Ion Ratio Lower Upper
91 100
106 34.9 25.4 38.0





#59

m/p-Xylene

Concen: 0.367 ppbv m

RT: 12.979 min Scan# 3168

Delta R.T. 0.006 min

Lab File: VL039446.D

Acq: 12 Jul 2022 13:11

Instrument :

MSVOA_L

ClientSampleId :

IA-9DDUP

Tgt Ion: 91 Resp: 130560

Ion Ratio Lower Upper

91 100

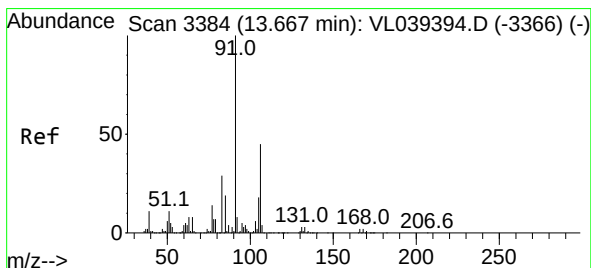
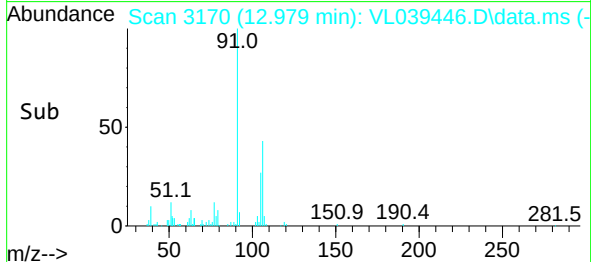
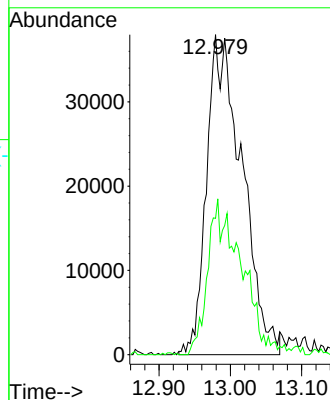
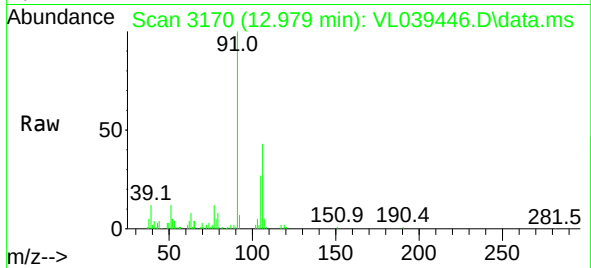
106 0.0 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022

Supervised By :Mahesh Dadoda 07/20/2022



#60

o-Xylene

Concen: 0.153 ppbv

RT: 13.703 min Scan# 3395

Delta R.T. 0.035 min

Lab File: VL039446.D

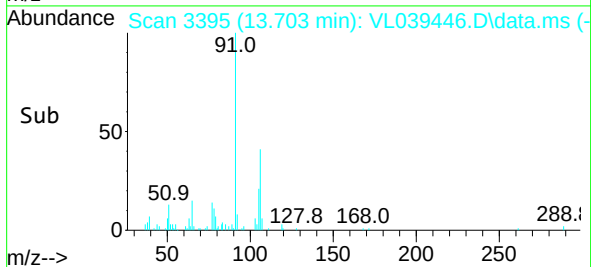
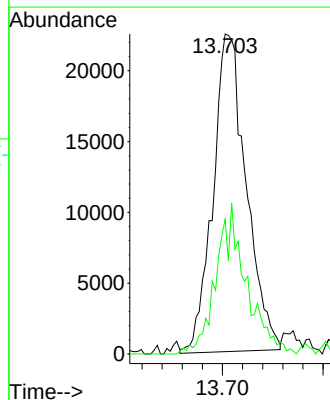
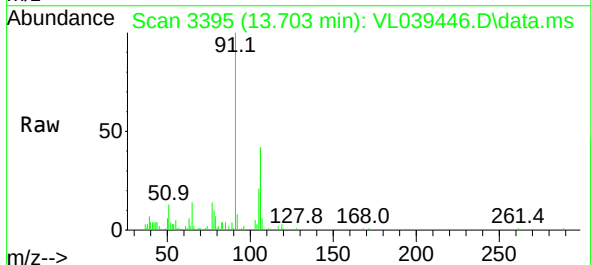
Acq: 12 Jul 2022 13:11

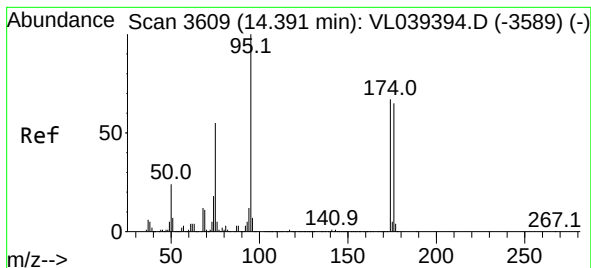
Tgt Ion: 91 Resp: 51530

Ion Ratio Lower Upper

91 100

106 42.7 22.4 67.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.607 ppbv

RT: 14.433 min Scan# 3609

Delta R.T. 0.042 min

Lab File: VL039446.D

Acq: 12 Jul 2022 13:11

Instrument :

MSVOA_L

ClientSampleId :

IA-9DDUP

Tgt Ion: 95 Resp: 245919

Ion Ratio Lower Upper

95 100

174 70.5 55.9 83.9

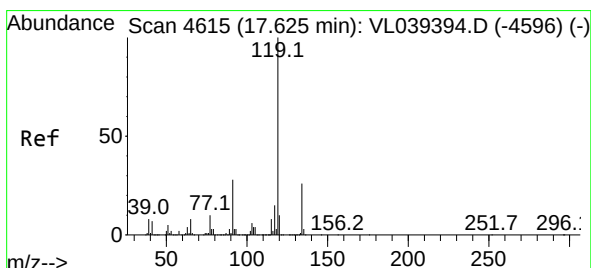
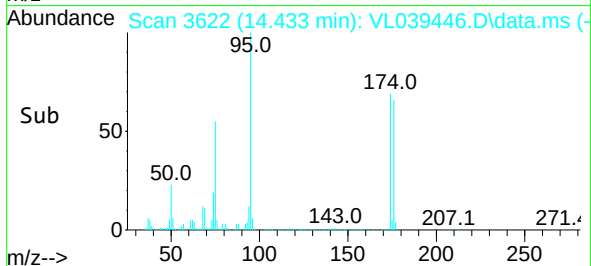
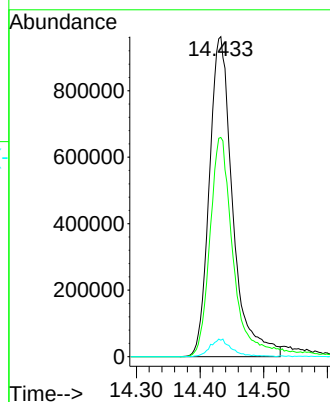
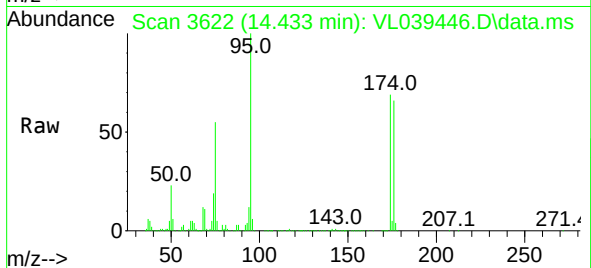
175 5.4 4.2 6.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/20/2022

Supervised By :Mahesh Dadoda 07/20/2022



#69

p-Isopropyltoluene

Concen: 0.163 ppbv m

RT: 17.664 min Scan# 4627

Delta R.T. 0.038 min

Lab File: VL039446.D

Acq: 12 Jul 2022 13:11

Tgt Ion:119 Resp: 88564

Ion Ratio Lower Upper

119 100

134 0.0 20.3 30.5#

91 0.0 22.9 34.3#

