

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL070522\
 Data File : VL039431.D
 Acq On : 5 Jul 2022 23:00
 Operator : SY/AP
 Sample : N3573-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: Jul 06 02:39:01 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 6 2022

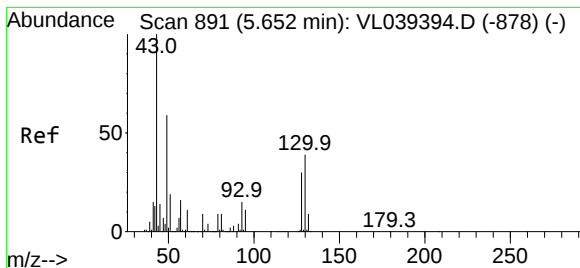
QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

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

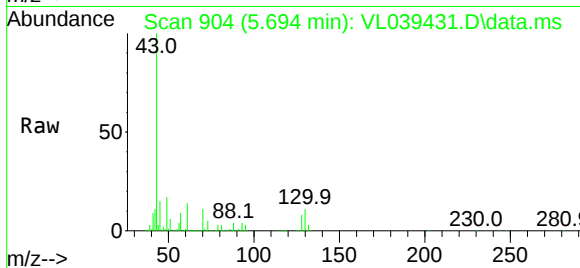
Internal Standards						
1) Bromochloromethane	5.694	49	1184734	10.000	ppbv	0.04
33) 1,4-Difluorobenzene	7.198	114	3112323	10.000	ppbv	0.04
55) Chlorobenzene-d5	12.095	117	2760982	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.423	95	2028825	9.905	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.057	85	41154	0.241	ppbv #	86
3) Chlorodifluoromethane	2.993	51	101816m	0.677	ppbv	
4) Chloromethane	3.150	50	39257m	0.478	ppbv	
7) Chloroethane	3.565	64	7638m	0.265	ppbv	
9) Propene	3.034	41	203055	2.991	ppbv #	67
10) Heptane	8.131	43	84607m	0.532	ppbv	
11) Trichlorofluoromethane	3.960	101	44121m	0.232	ppbv	
13) Ethanol	3.623	45	3565619	905.400	ppbv	72
15) Acetone	3.848	43	49283431m	351.617	ppbv	
17) tert-Butyl alcohol	4.321	59	47911m	0.403	ppbv	
19) Isopropyl Alcohol	3.986	45	18966813	253.691	ppbv #	88
20) Methylene Chloride	4.366	84	839819	15.032	ppbv	97
25) Ethyl Acetate	5.687	43	8119154	28.251	ppbv #	90
29) Chloroform	5.777	83	845871	4.199	ppbv	94
30) Cyclohexane	7.137	84	16509m	0.157	ppbv	
34) 2-Butanone	5.263	43	401072	2.560	ppbv	99
35) Carbon Tetrachloride	7.041	117	11310m	0.059	ppbv	
36) Benzene	6.906	78	75196	0.312	ppbv	94
43) Methyl Methacrylate	8.031	69	9387126	102.489	ppbv	93
44) 2,2,4-Trimethylpentane	7.880	57	74459	0.182	ppbv #	56
50) 4-Methyl-2-Pentanone	8.764	43	33253m	0.140	ppbv	
52) Tetrachloroethene	11.230	164	65436m	0.675	ppbv	
53) Toluene	9.819	91	970127	3.492	ppbv	100
58) Ethyl Benzene	12.716	91	54804m	0.154	ppbv	
59) m/p-Xylene	12.976	91	147363m	0.469	ppbv	
60) o-Xylene	13.696	91	56181m	0.189	ppbv	
74) 1,2,4-Trimethylbenzene	16.764	105	62944m	0.177	ppbv	
76) 1,4-Dichlorobenzene	17.140	146	21314m	0.101	ppbv	
80) Naphthalene,2-methyl-	24.976	142	13530m	0.162	ppbv	

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.694 min Scan# 90
Delta R.T. 0.042 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

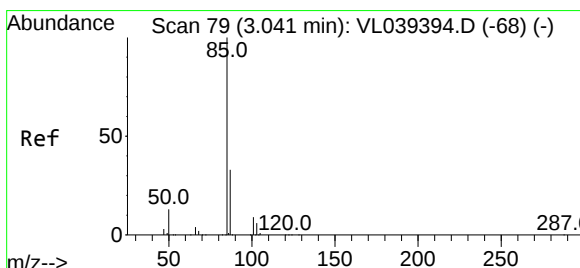
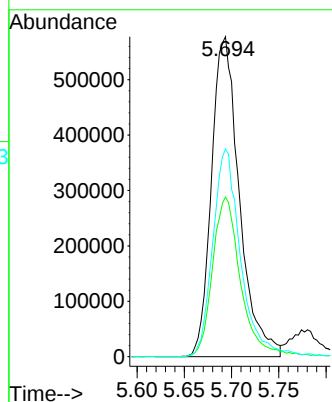
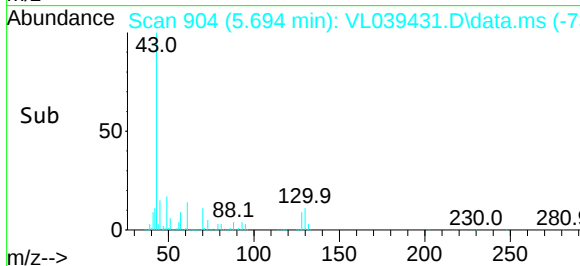
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 1184734
Ion Ratio Lower Upper
49 100
128 50.6 26.7 80.0
130 65.4 34.3 102.8

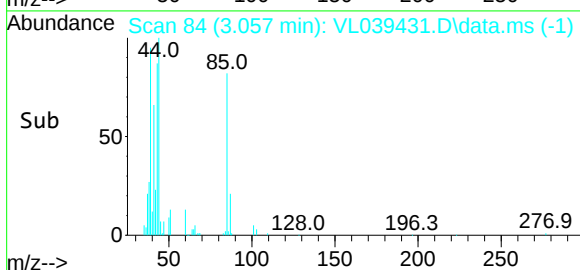
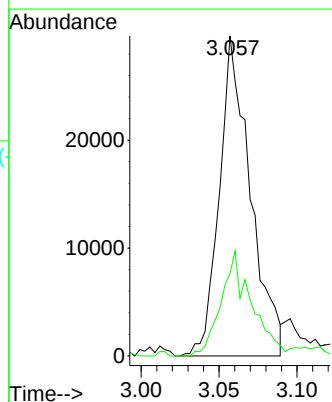
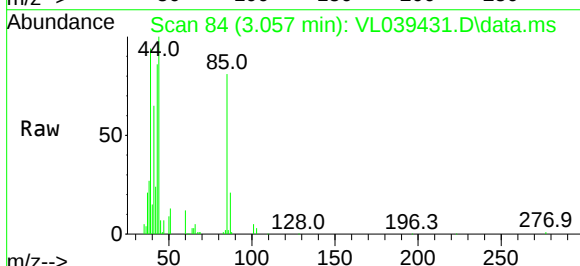
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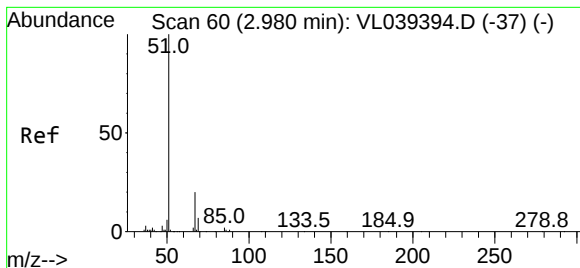
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#2
Dichlorodifluoromethane
Concen: 0.241 ppbv
RT: 3.057 min Scan# 84
Delta R.T. 0.016 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

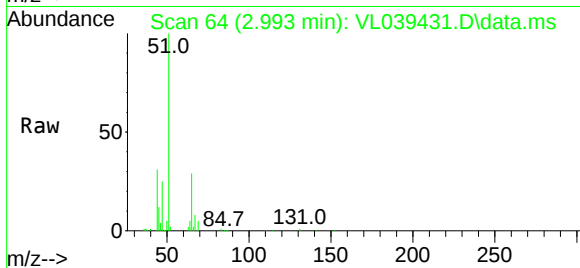
Tgt Ion: 85 Resp: 41154
Ion Ratio Lower Upper
85 100
87 25.7 26.7 40.1#





#3
Chlorodifluoromethane
Concen: 0.677 ppbv m
RT: 2.993 min Scan# 64
Delta R.T. 0.013 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

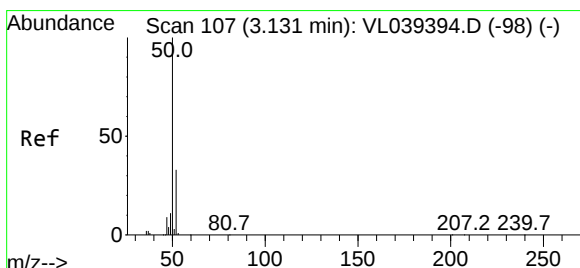
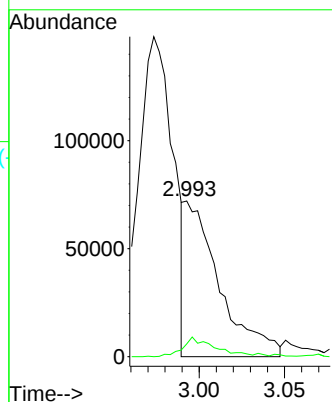
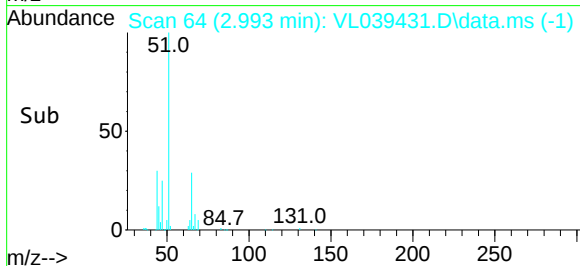
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 101810
Ion Ratio Lower Upper
51 100
67 12.5 15.7 23.5

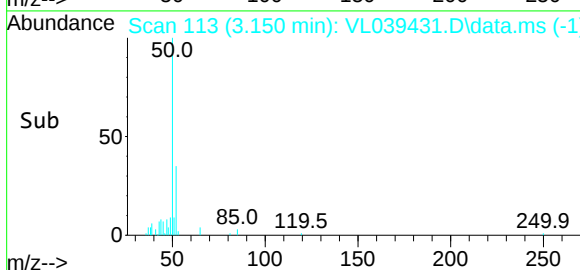
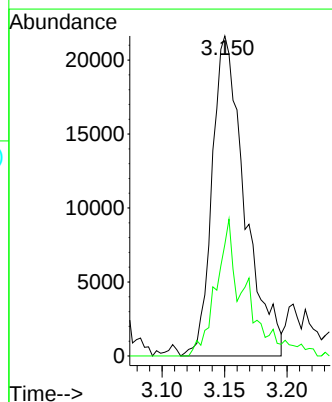
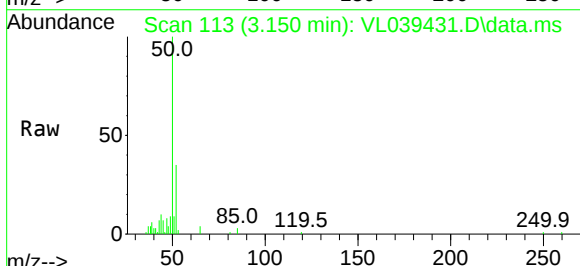
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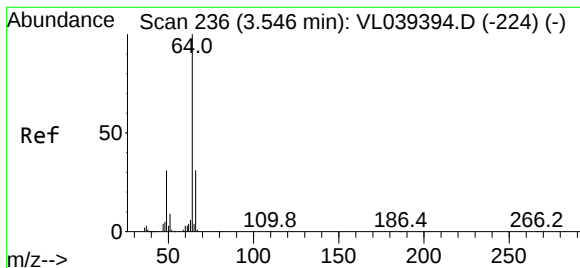
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#4
Chloromethane
Concen: 0.478 ppbv m
RT: 3.150 min Scan# 113
Delta R.T. 0.019 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

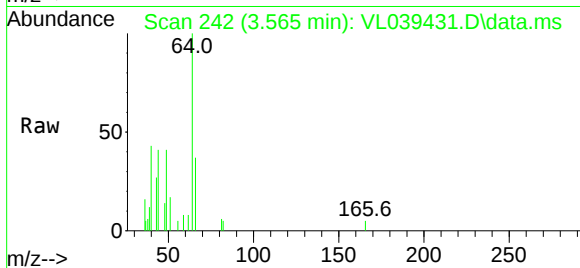
Tgt Ion: 50 Resp: 39257
Ion Ratio Lower Upper
50 100
52 34.9 26.5 39.7





#7
Chloroethane
Concen: 0.265 ppbv m
RT: 3.565 min Scan# 242
Delta R.T. 0.019 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

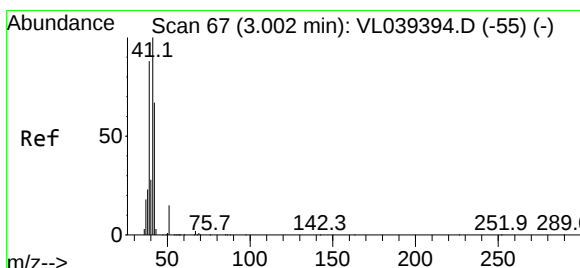
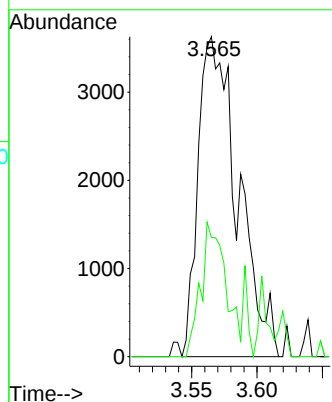
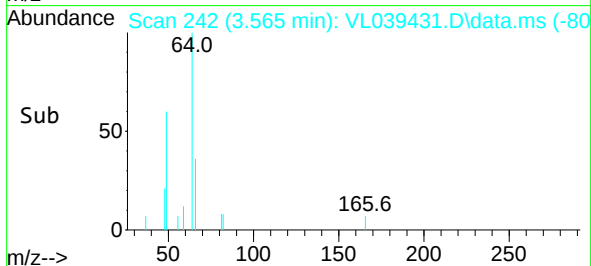
Instrument :
MSVOA_L
ClientSampleId :
IA1



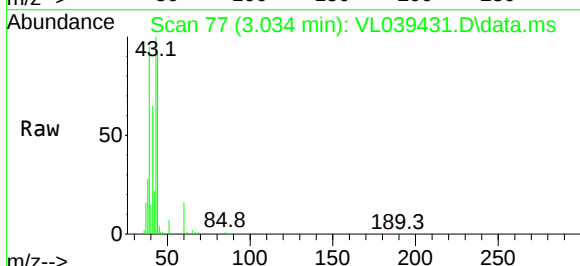
Tgt Ion: 64 Resp: 7638
Ion Ratio Lower Upper
64 100
66 37.3 24.7 37.1

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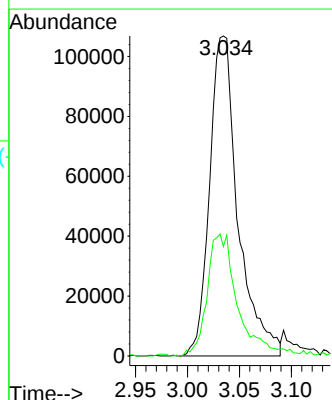
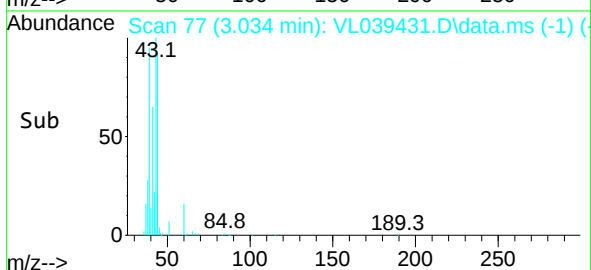
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022

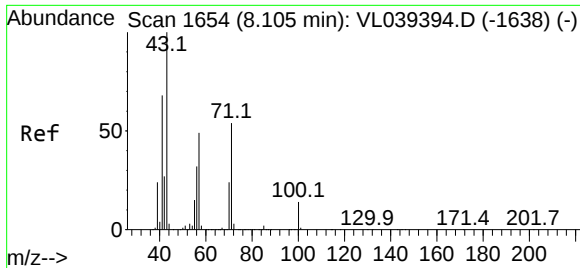


#9
Propene
Concen: 2.991 ppbv
RT: 3.034 min Scan# 77
Delta R.T. 0.032 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00



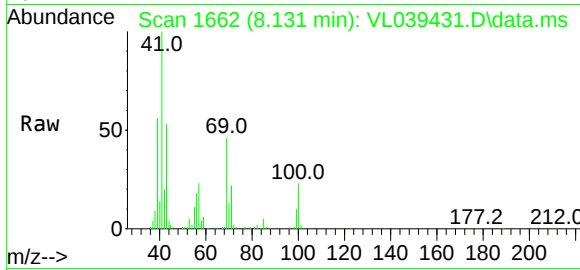
Tgt Ion: 41 Resp: 203055
Ion Ratio Lower Upper
41 100
42 42.3 55.2 82.8





#10
Heptane
Concen: 0.532 ppbv m
RT: 8.131 min Scan# 1
Delta R.T. 0.026 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

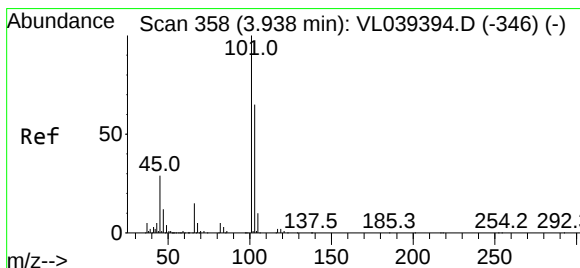
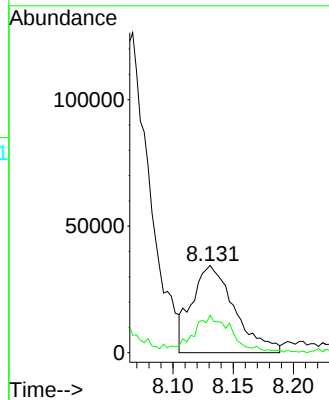
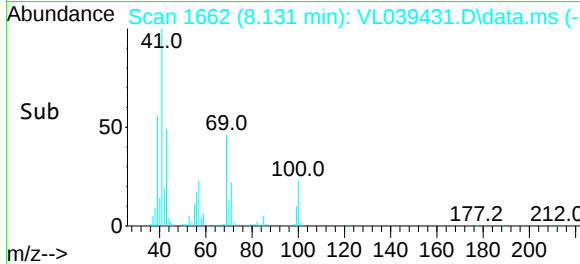
Instrument :
MSVOA_L
ClientSampleId :
IA1



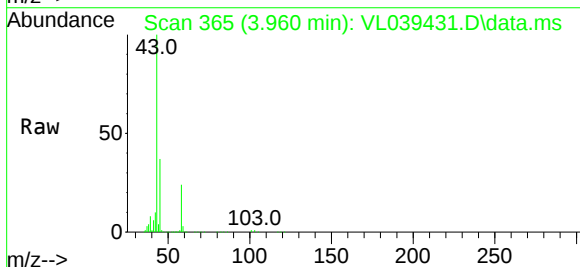
Tgt Ion: 43 Resp: 8460
Ion Ratio Lower Upper
43 100
57 37.7 40.5 60.7

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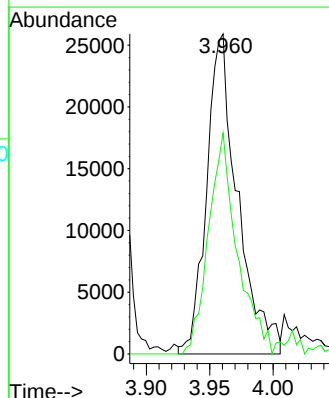
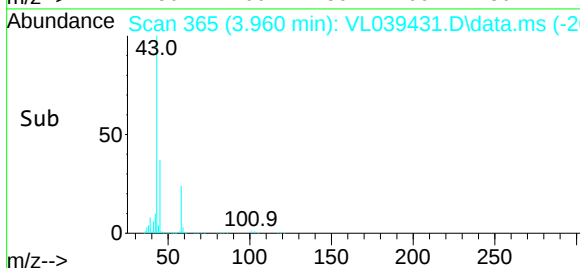
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022

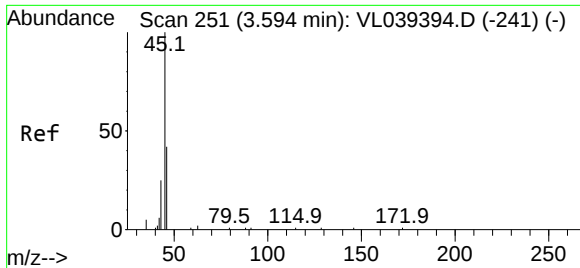


#11
Trichlorofluoromethane
Concen: 0.232 ppbv m
RT: 3.960 min Scan# 365
Delta R.T. 0.023 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00



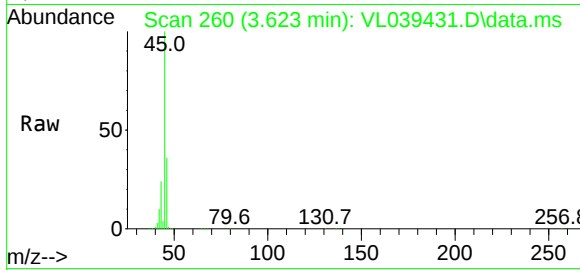
Tgt Ion:101 Resp: 44121
Ion Ratio Lower Upper
101 100
103 69.0 51.8 77.8





#13
Ethanol
Concen: 905.400 ppbv
RT: 3.623 min Scan# 20
Delta R.T. 0.029 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

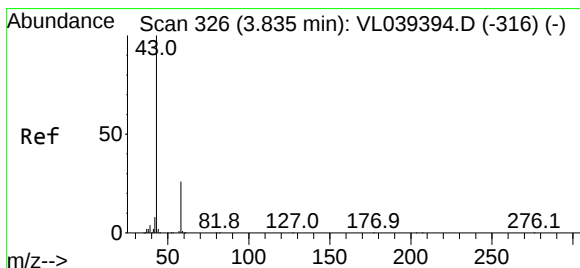
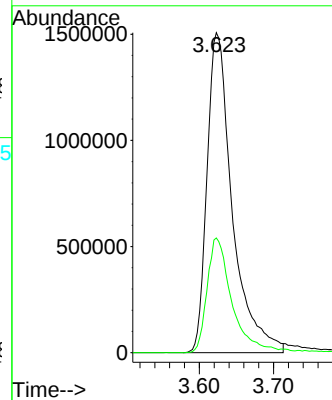
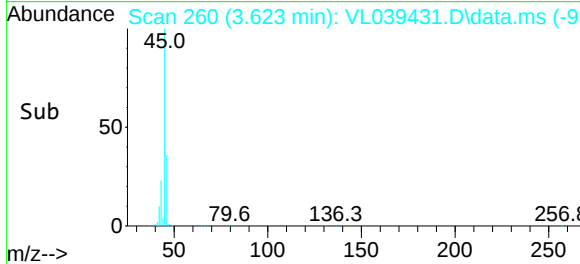
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 3565619
Ion Ratio Lower Upper
45 100
46 36.4 22.8 91.2

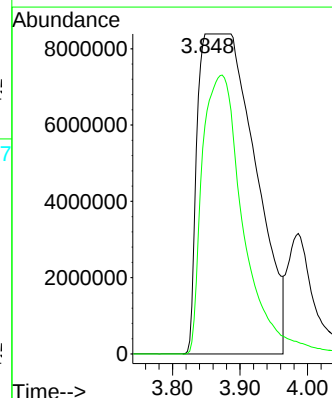
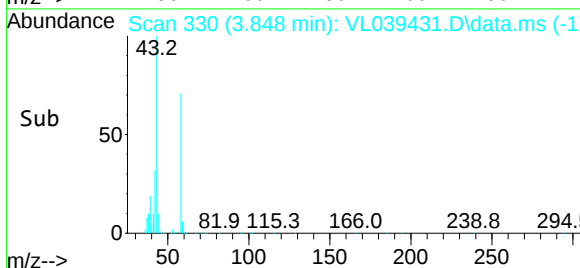
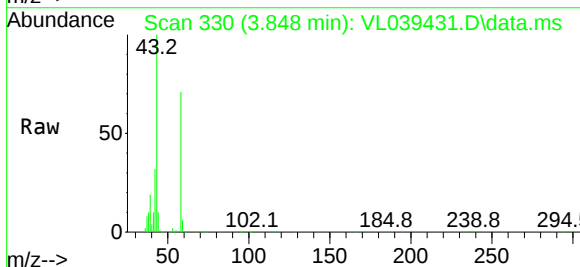
Manual Integrations
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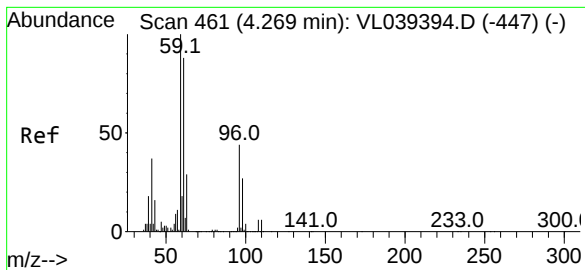
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#15
Acetone
Concen: 351.617 ppbv m
RT: 3.848 min Scan# 330
Delta R.T. 0.013 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

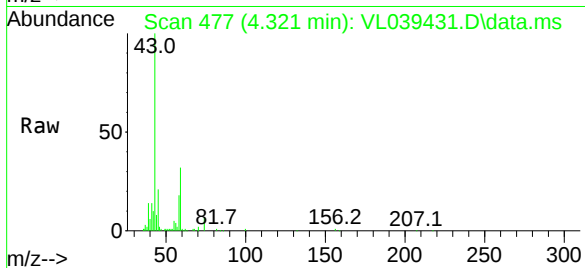
Tgt Ion: 43 Resp:49283431
Ion Ratio Lower Upper
43 100
58 63.3 21.0 31.6#





#17
tert-Butyl alcohol
Concen: 0.403 ppbv
RT: 4.321 min Scan# 41
Delta R.T. 0.051 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

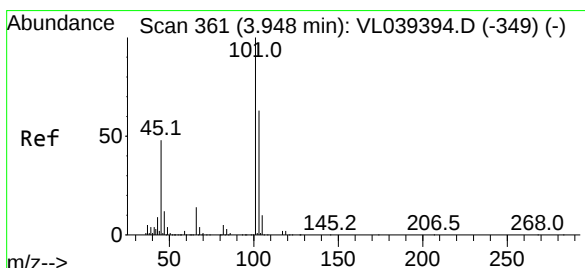
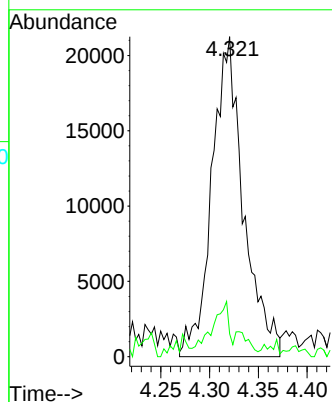
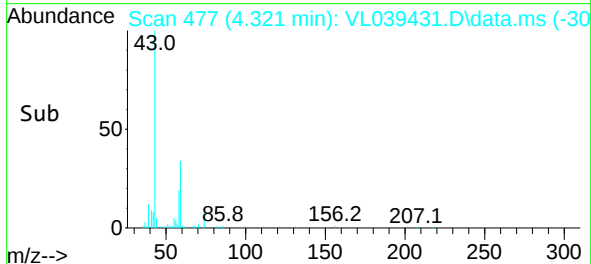
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 59 Resp: 4791
Ion Ratio Lower Upper
59 100
57 221.4 8.7 13.1

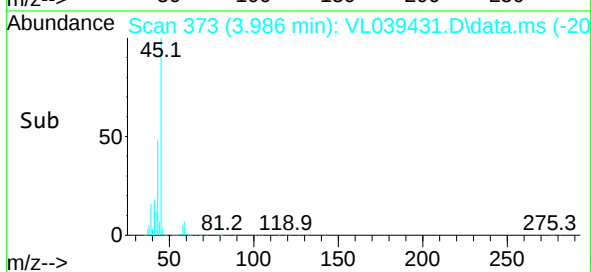
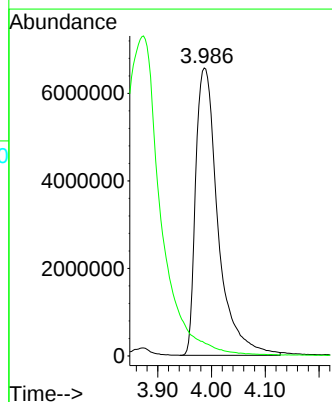
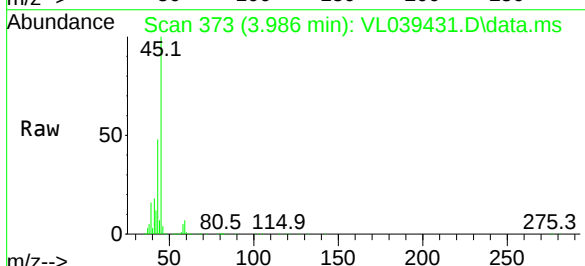
Manual Integrations
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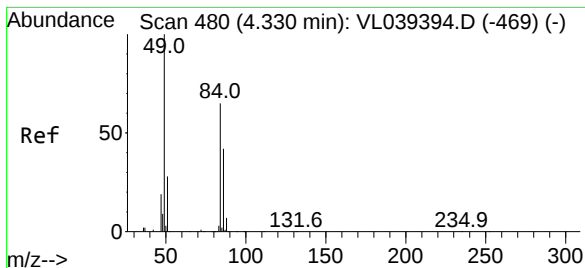
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#19
Isopropyl Alcohol
Concen: 253.691 ppbv
RT: 3.986 min Scan# 373
Delta R.T. 0.039 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

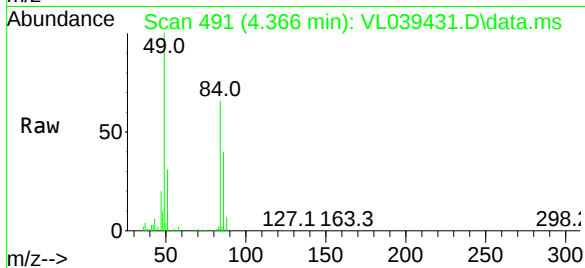
Tgt Ion: 45 Resp:18966813
Ion Ratio Lower Upper
45 100
58 0.0 3.2 4.8





#20
Methylene Chloride
Concen: 15.032 ppbv
RT: 4.366 min Scan# 49
Delta R.T. 0.035 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

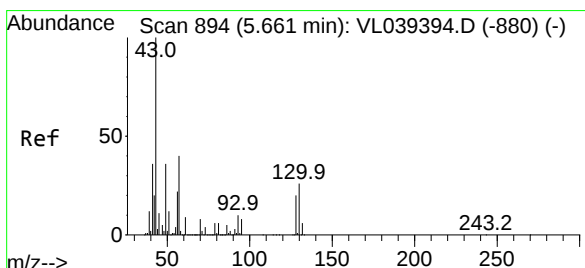
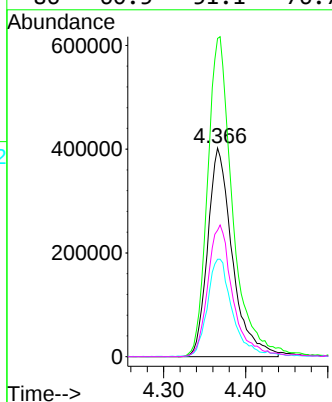
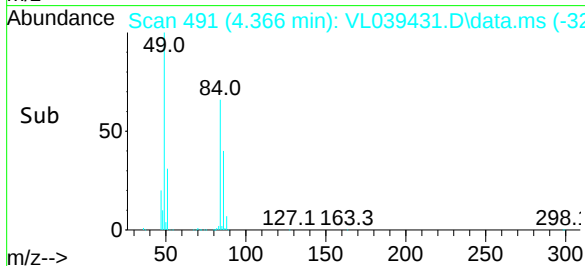
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 839819
Ion Ratio Lower Upper
84 100
49 152.3 123.1 184.7
51 46.3 34.4 51.6
86 60.5 51.1 76.7

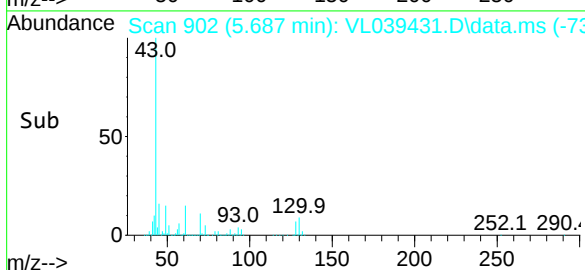
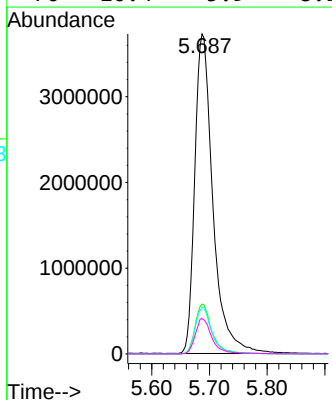
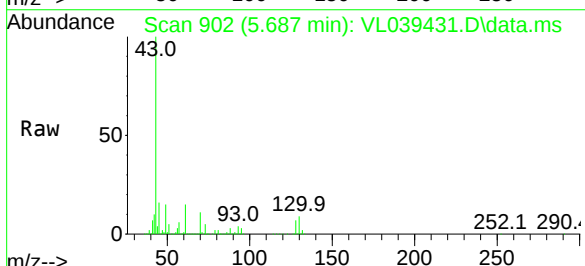
Manual Integrations
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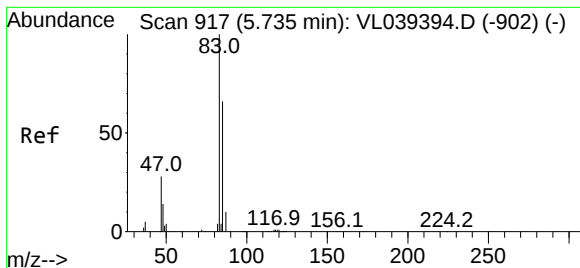
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#25
Ethyl Acetate
Concen: 28.251 ppbv
RT: 5.687 min Scan# 902
Delta R.T. 0.026 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

Tgt Ion: 43 Resp: 8119154
Ion Ratio Lower Upper
43 100
45 14.6 8.2 12.4#
61 13.6 8.3 12.5#
70 10.4 5.9 8.9#





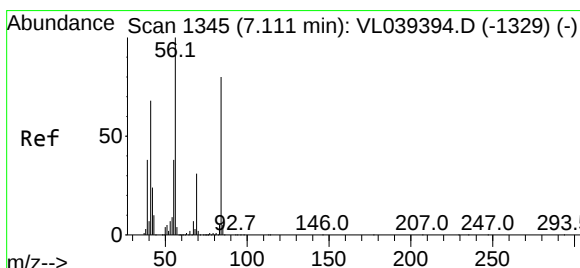
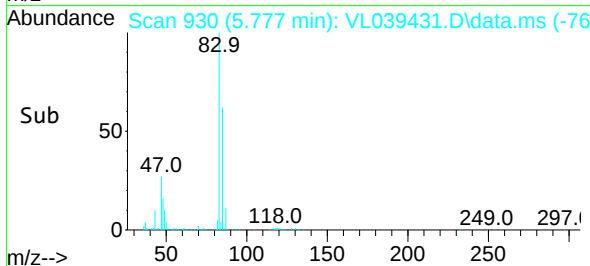
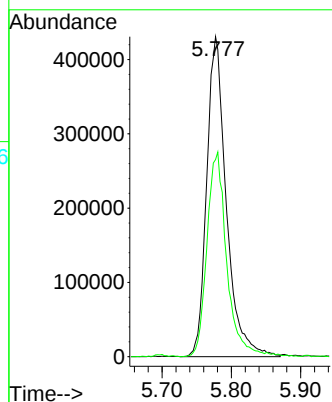
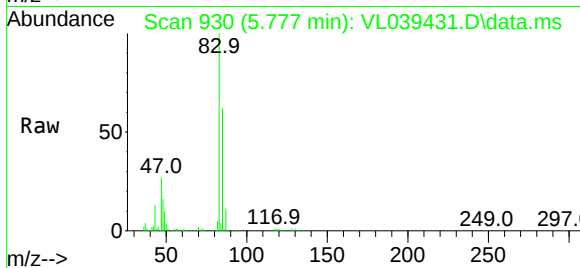
#29
Chloroform
Concen: 4.199 ppbv
RT: 5.777 min Scan# 917
Delta R.T. 0.042 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 83 Resp: 84587
Ion Ratio Lower Upper
83 100
85 61.5 52.8 79.2

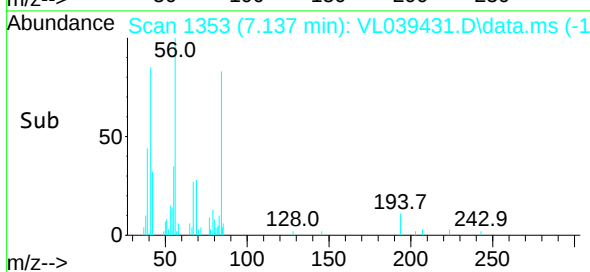
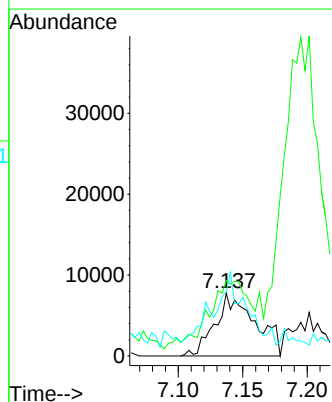
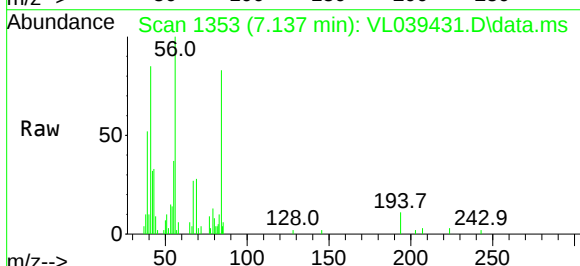
Manual Integrations
APPROVED

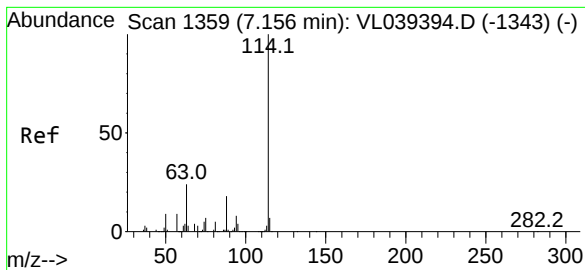
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#30
Cyclohexane
Concen: 0.157 ppbv m
RT: 7.137 min Scan# 1353
Delta R.T. 0.026 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

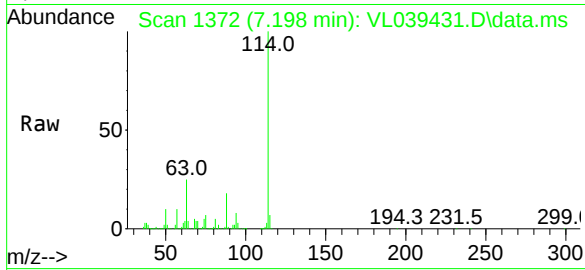
Tgt Ion: 84 Resp: 16509
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 67.7 101.5#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.198 min Scan# 1114
Delta R.T. 0.042 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

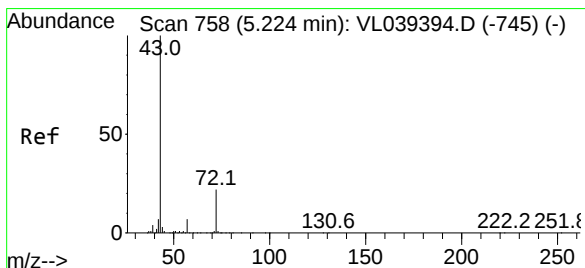
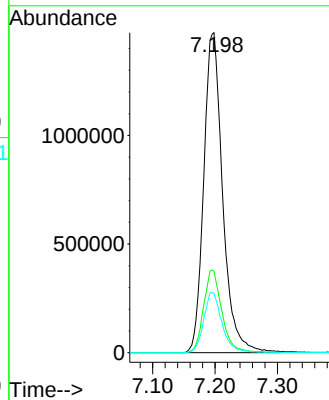
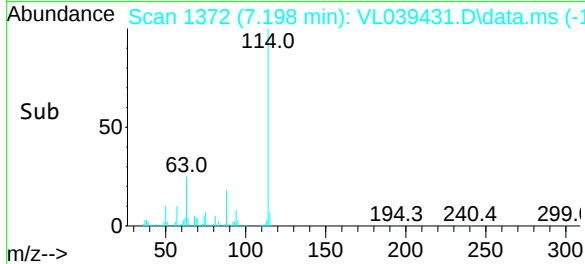
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:114 Resp: 311232
Ion Ratio Lower Upper
114 100
63 25.2 20.2 30.4
88 18.3 14.5 21.7

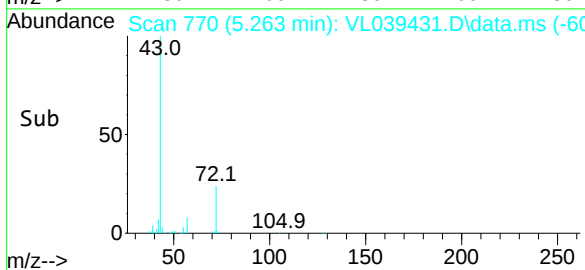
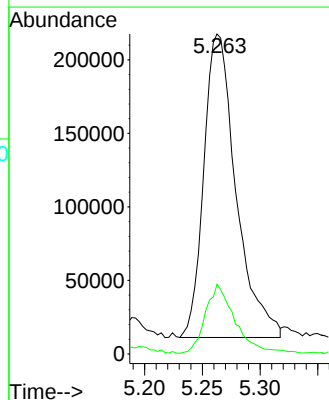
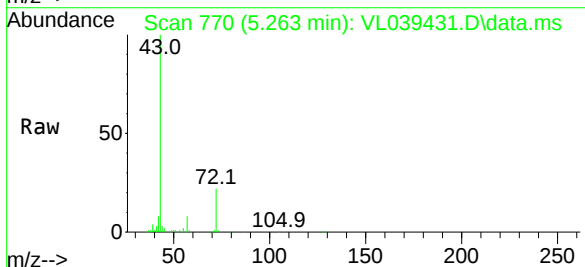
Manual Integrations
APPROVED

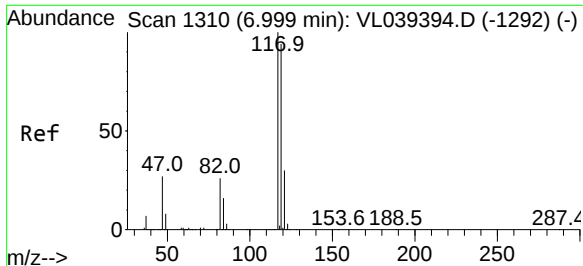
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#34
2-Butanone
Concen: 2.560 ppbv
RT: 5.263 min Scan# 770
Delta R.T. 0.039 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

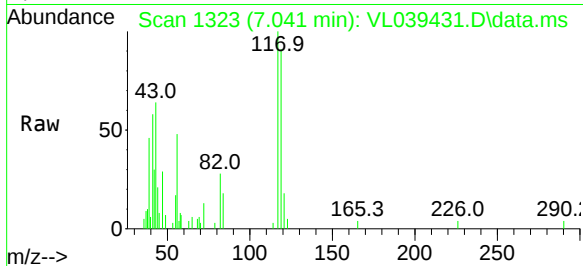
Tgt Ion: 43 Resp: 401072
Ion Ratio Lower Upper
43 100
72 21.9 17.9 26.9





#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 7.041 min Scan# 11310
Delta R.T. 0.042 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

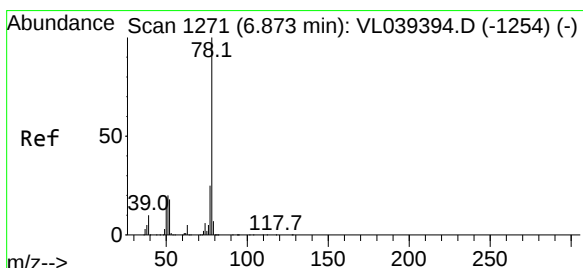
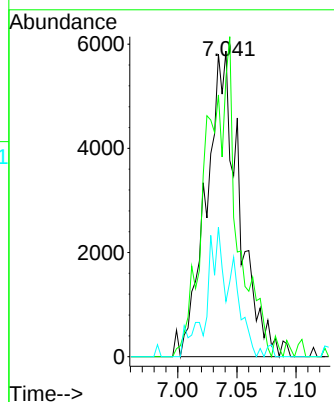
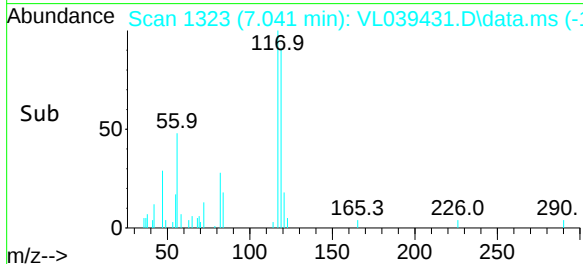
Instrument :
MSVOA_L
ClientSampleId :
IA1



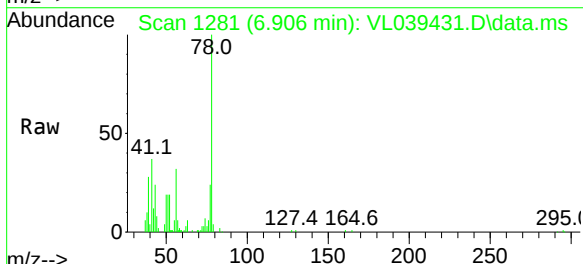
Tgt Ion: 117 Resp: 11310
Ion Ratio Lower Upper
117 100
119 91.3 75.4 113.2
121 18.1 24.2 36.2

Manual Integrations
APPROVED

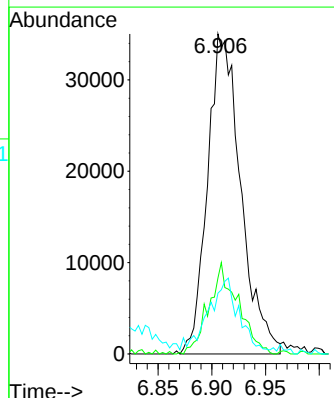
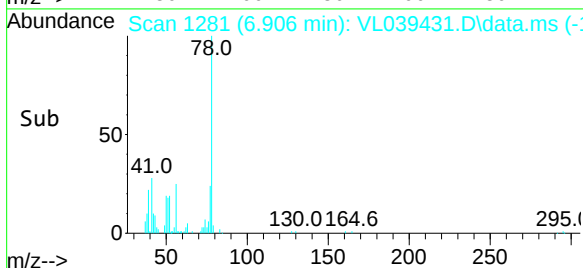
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022

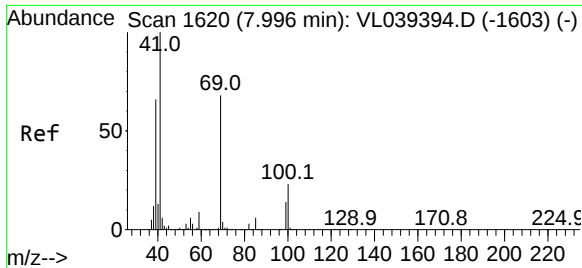


#36
Benzene
Concen: 0.312 ppbv
RT: 6.906 min Scan# 1281
Delta R.T. 0.032 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00



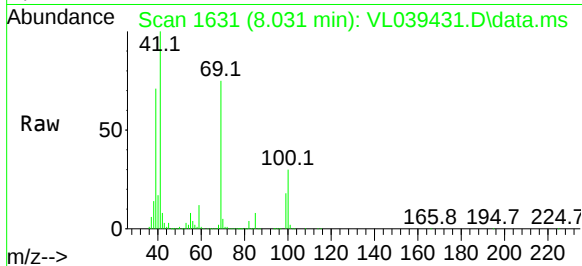
Tgt Ion: 78 Resp: 75196
Ion Ratio Lower Upper
78 100
77 23.3 20.3 30.5
50 16.0 15.5 23.3





#43
Methyl Methacrylate
Concen: 102.489 ppbv
RT: 8.031 min Scan# 110
Delta R.T. 0.035 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

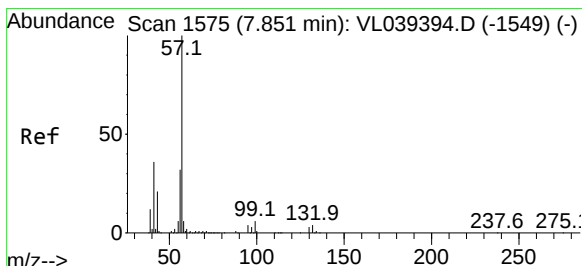
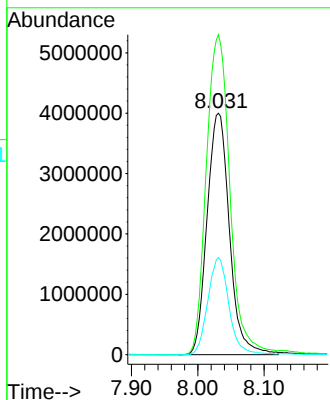
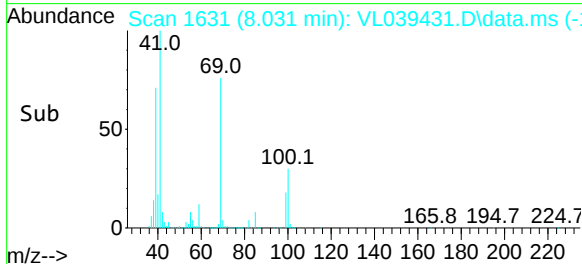
Instrument :
MSVOA_L
ClientSampleId :
IA1



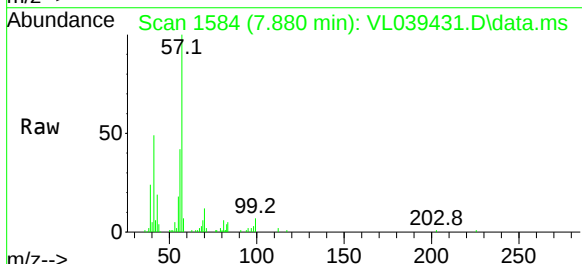
Tgt Ion: 69 Resp: 9387120
Ion Ratio Lower Upper
69 100
41 142.0 120.8 181.2
100 38.4 27.8 41.6

Manual Integrations
APPROVED

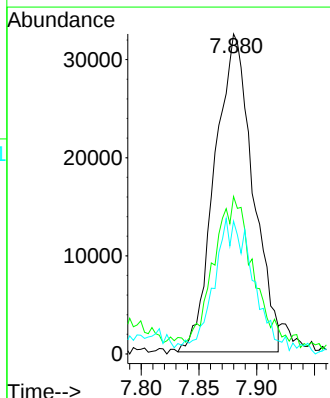
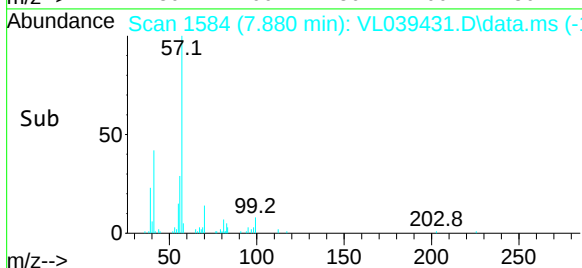
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022

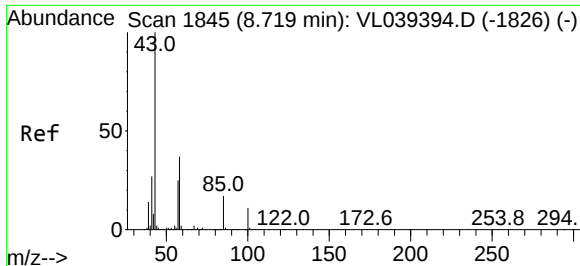


#44
2,2,4-Trimethylpentane
Concen: 0.182 ppbv
RT: 7.880 min Scan# 1584
Delta R.T. 0.029 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00



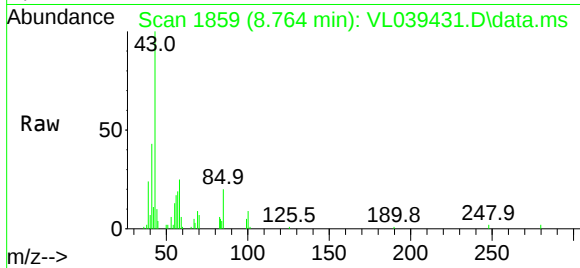
Tgt Ion: 57 Resp: 74459
Ion Ratio Lower Upper
57 100
41 0.0 27.4 41.2#
56 45.0 24.5 36.7#





#50
4-Methyl-2-Pentanone
Concen: 0.140 ppbv m
RT: 8.764 min Scan# 1859
Delta R.T. 0.045 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

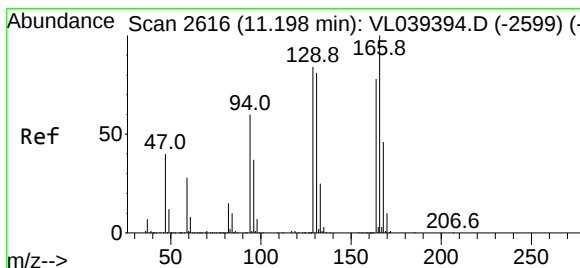
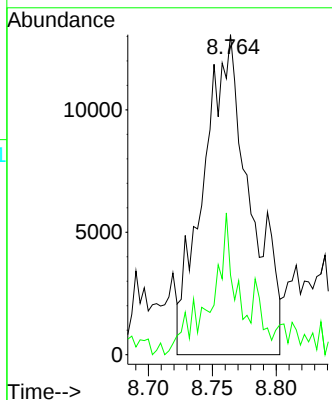
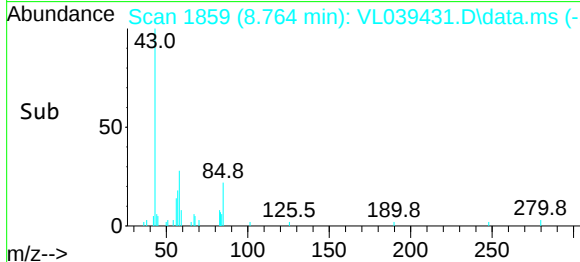
Instrument :
MSVOA_L
ClientSampleId :
IA1



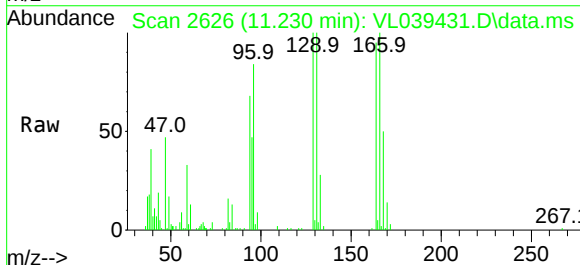
Tgt Ion: 43 Resp: 3325
Ion Ratio Lower Upper
43 100
58 28.1 28.8 43.2

Manual Integrations
APPROVED

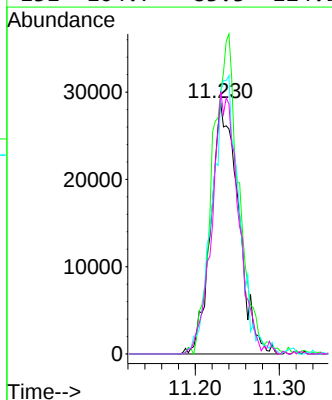
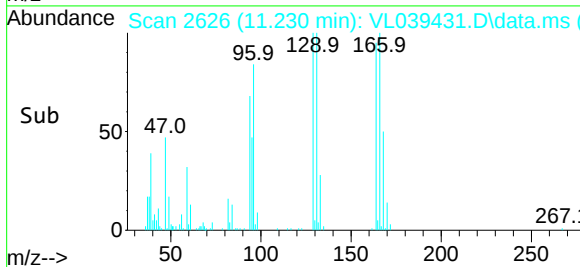
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022

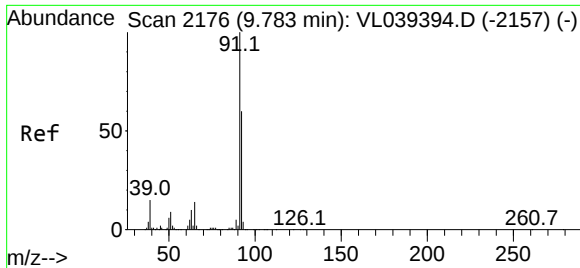


#52
Tetrachloroethene
Concen: 0.675 ppbv m
RT: 11.230 min Scan# 2626
Delta R.T. 0.032 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00



Tgt Ion:164 Resp: 65436
Ion Ratio Lower Upper
164 100
166 104.7 102.2 153.2
129 104.3 85.8 128.8
131 104.7 83.3 124.9





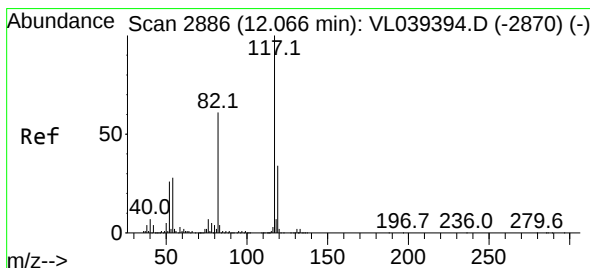
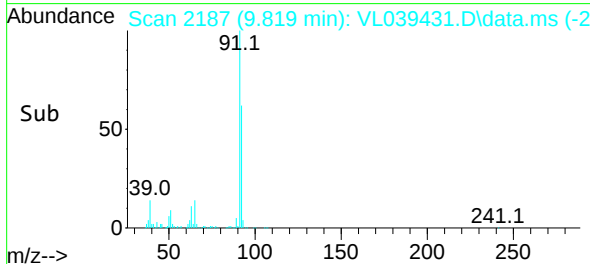
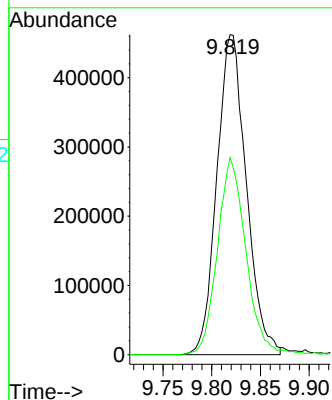
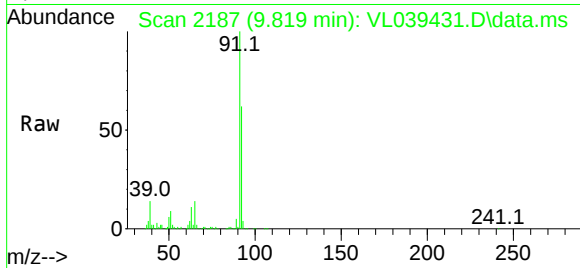
#53
Toluene
Concen: 3.492 ppbv
RT: 9.819 min Scan# 2176
Delta R.T. 0.035 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 97012
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.2

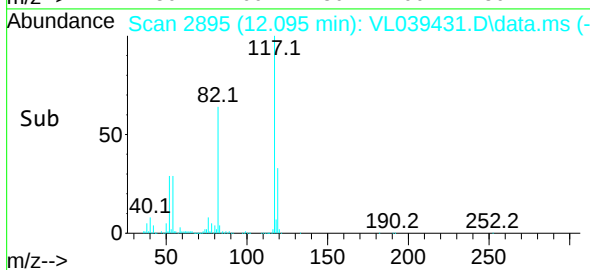
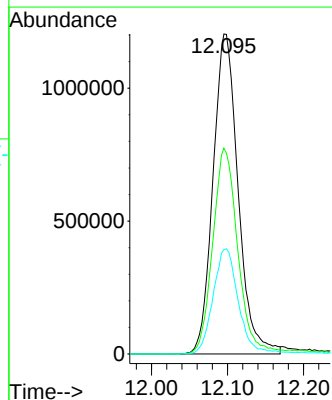
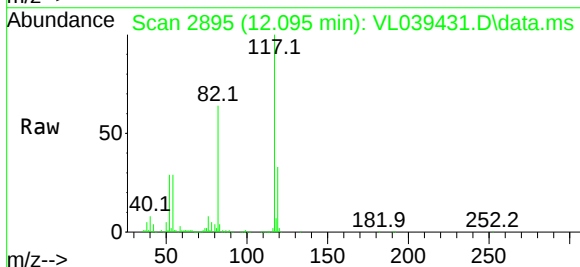
Manual Integrations
APPROVED

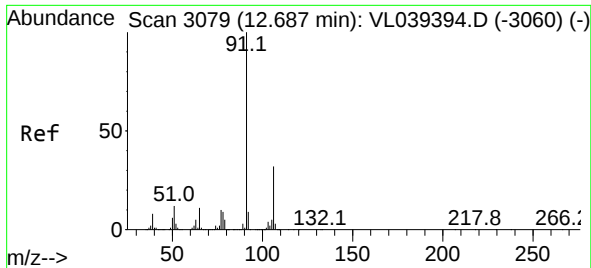
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.095 min Scan# 2895
Delta R.T. 0.029 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

Tgt Ion:117 Resp: 2760982
Ion Ratio Lower Upper
117 100
82 64.3 50.8 76.2
119 33.8 24.1 36.1





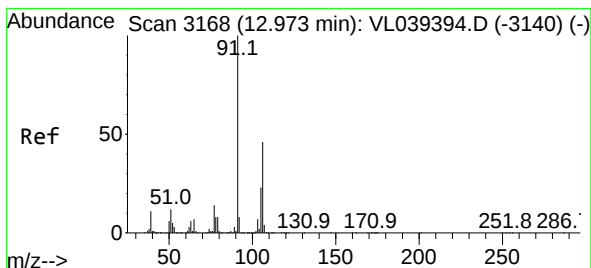
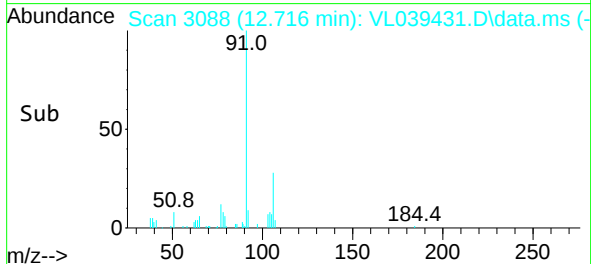
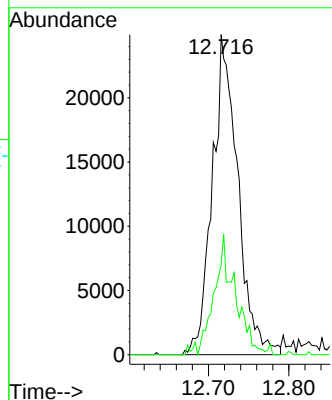
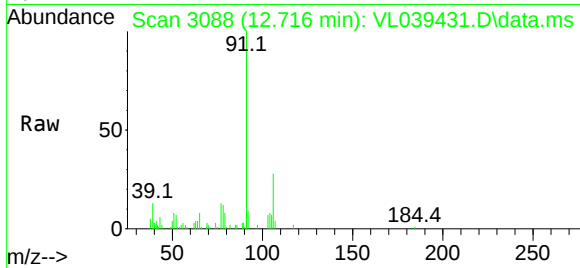
#58
Ethyl Benzene
Concen: 0.154 ppbv m
RT: 12.716 min Scan# 3079
Delta R.T. 0.029 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 54804
Ion Ratio Lower Upper
91 100
106 28.2 25.4 38.0

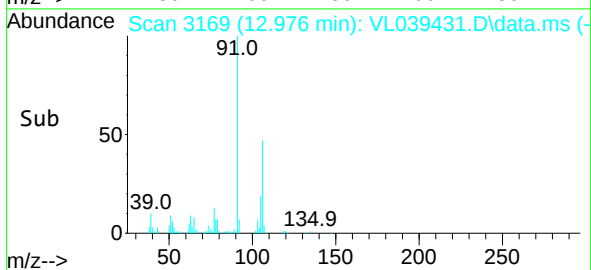
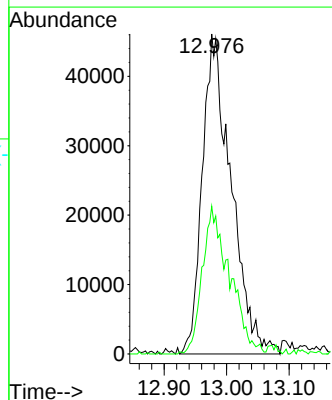
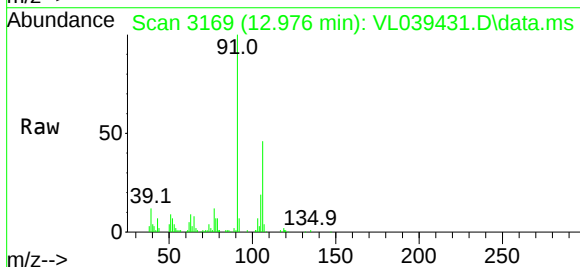
Manual Integrations
APPROVED

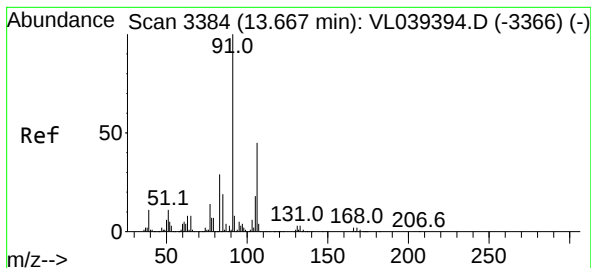
Reviewed By :Semsettin Yesilyurt 07/07/2022
Supervised By :Mahesh Dadoda 07/07/2022



#59
m/p-Xylene
Concen: 0.469 ppbv m
RT: 12.976 min Scan# 3169
Delta R.T. 0.003 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

Tgt Ion: 91 Resp: 147363
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





#60

o-Xylene

Concen: 0.189 ppbv

RT: 13.696 min Scan# 31

Delta R.T. 0.029 min

Lab File: VL039431.D

Acq: 5 Jul 2022 23:00

Instrument :

MSVOA_L

ClientSampleId :

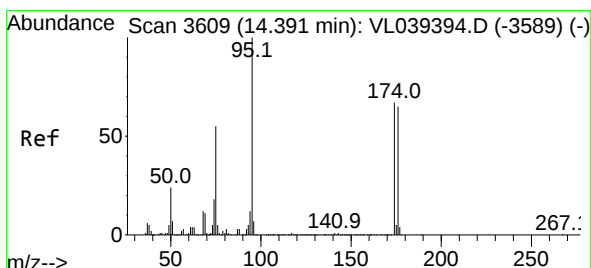
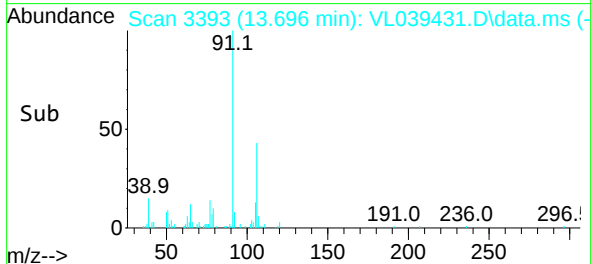
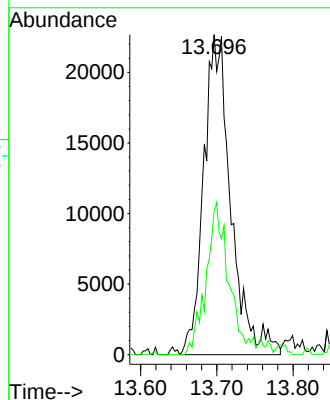
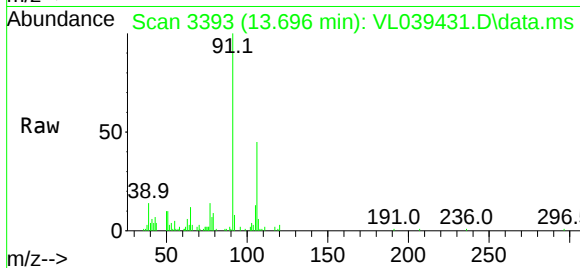
IA1

Tgt Ion: 91 Resp: 5618
 Ion Ratio Lower Upper
 91 100
 106 42.5 22.4 67.3

Manual Integrations

APPROVED

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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.905 ppbv

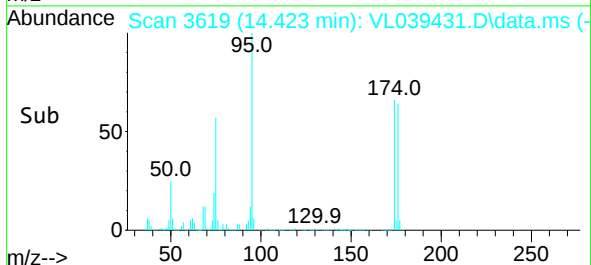
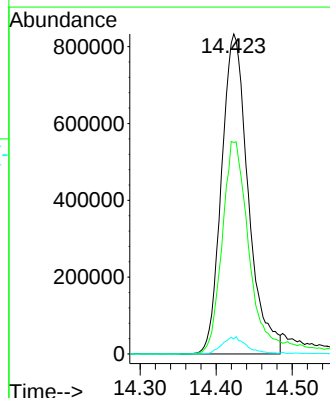
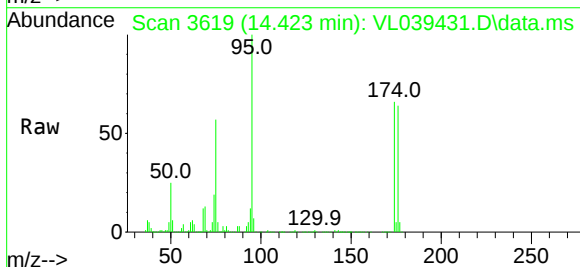
RT: 14.423 min Scan# 3619

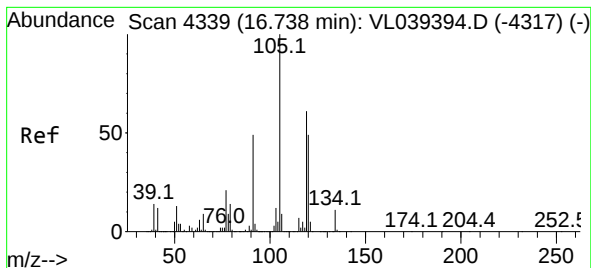
Delta R.T. 0.032 min

Lab File: VL039431.D

Acq: 5 Jul 2022 23:00

Tgt Ion: 95 Resp: 2028825
 Ion Ratio Lower Upper
 95 100
 174 71.5 55.9 83.9
 175 5.0 4.2 6.4





#74

1,2,4-Trimethylbenzene

Concen: 0.177 ppbv m

RT: 16.764 min Scan# 4339

Delta R.T. 0.026 min

Lab File: VL039431.D

Acq: 5 Jul 2022 23:00

Instrument :

MSVOA_L

ClientSampleId :

IA1

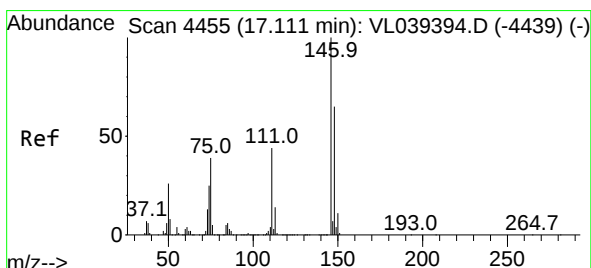
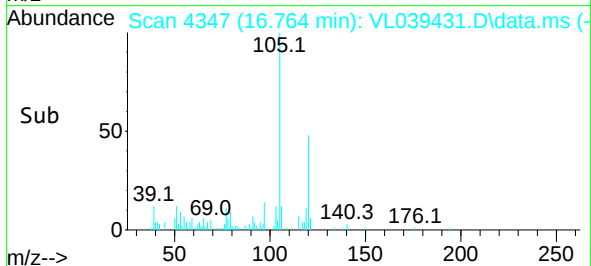
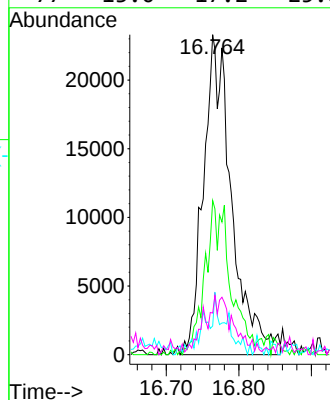
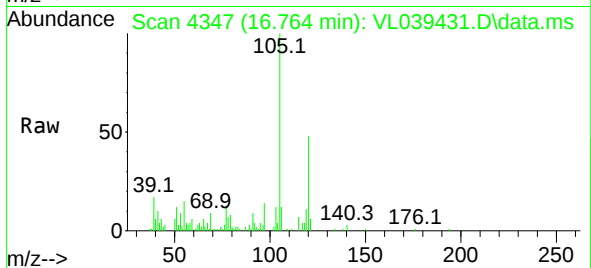
Tgt Ion:	105	Resp:	6294
Ion	Ratio	Lower	Upper
105	100		
120	48.2	39.5	59.3
91	9.0	39.2	58.8
77	13.0	17.2	25.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/07/2022

Supervised By :Mahesh Dadoda 07/07/2022



#76

1,4-Dichlorobenzene

Concen: 0.101 ppbv m

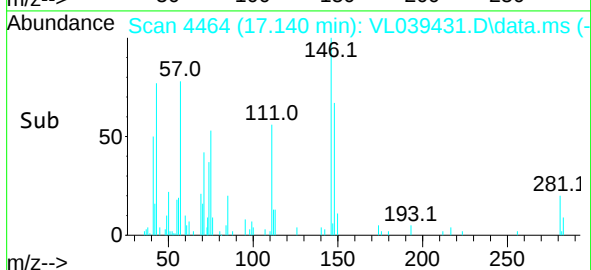
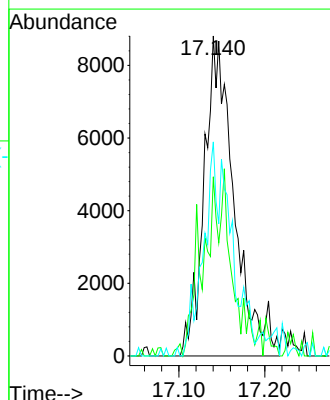
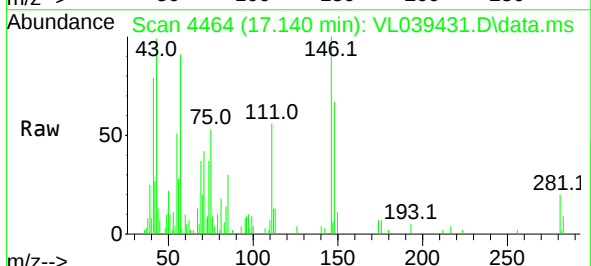
RT: 17.140 min Scan# 4464

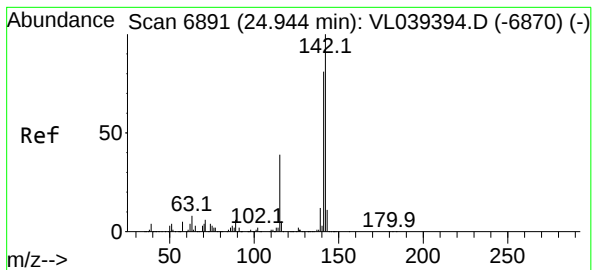
Delta R.T. 0.029 min

Lab File: VL039431.D

Acq: 5 Jul 2022 23:00

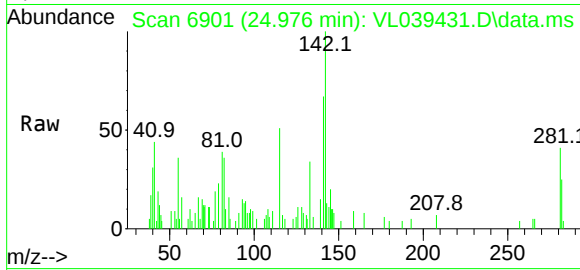
Tgt Ion:	146	Resp:	21314
Ion	Ratio	Lower	Upper
146	100		
111	57.2	22.9	68.8
148	0.0	33.6	100.8





#80
Naphthalene, 2-methyl-
Concen: 0.162 ppbv m
RT: 24.976 min Scan# 6901
Delta R.T. 0.032 min
Lab File: VL039431.D
Acq: 5 Jul 2022 23:00

Instrument : MSVOA_L
ClientSampleId : IA1



Tgt Ion: 142 Resp: 13530
Ion Ratio Lower Upper
142 100
141 51.8 68.9 103.3
115 78.0 30.0 45.0

Manual Integrations
APPROVED

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

