

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062722\
 Data File : VL039379.D
 Acq On : 28 Jun 2022 5:07
 Operator : SY/AP
 Sample : N3508-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-20220624DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/29/2022
 Supervised By :Mahesh Dadoda 06/30/2022

Quant Time: Jun 28 06:40:15 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 6

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.661	49	1059314	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	7.166	114	2995715	10.000	ppbv	-0.02
55) Chlorobenzene-d5	12.072	117	2635626	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.400	95	1976597	9.071	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.700%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	3.041	85	31271m	0.168	ppbv	
3) Chlorodifluoromethane	2.983	51	56947m	0.423	ppbv	
4) Chloromethane	3.134	50	82838m	1.197	ppbv	
9) Propene	2.999	41	13458m	0.229	ppbv	
10) Heptane	8.105	43	14613m	0.107	ppbv	
11) Trichlorofluoromethane	3.944	101	36441m	0.216	ppbv	
13) Ethanol	3.603	45	188099m	58.687	ppbv	
15) Acetone	3.845	43	1722006	15.605	ppbv	99
17) tert-Butyl alcohol	4.298	59	13771m	0.161	ppbv	
19) Isopropyl Alcohol	3.963	45	151115m	2.920	ppbv	
20) Methylene Chloride	4.340	84	216180	4.649	ppbv	93
23) Vinyl Acetate	5.060	43	143306	1.570	ppbv #	86
26) Hexane	5.677	57	128998	1.180	ppbv #	44
29) Chloroform	5.742	83	55239	0.300	ppbv	98
34) 2-Butanone	5.243	43	217791	1.338	ppbv	99
35) Carbon Tetrachloride	7.008	117	13802m	0.063	ppbv	
36) Benzene	6.880	78	38714m	0.159	ppbv	
41) Tetrahydrofuran	6.066	42	17425m	0.178	ppbv	
44) 2,2,4-Trimethylpentane	7.867	57	50296m	0.118	ppbv	
50) 4-Methyl-2-Pentanone	8.748	43	35190m	0.144	ppbv	
51) 2-Hexanone	10.140	43	31672m	0.167	ppbv	
52) Tetrachloroethene	11.198	164	3837m	0.040	ppbv	
53) Toluene	9.796	91	128116	0.457	ppbv	99
59) m/p-Xylene	12.960	91	55849m	0.175	ppbv	

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

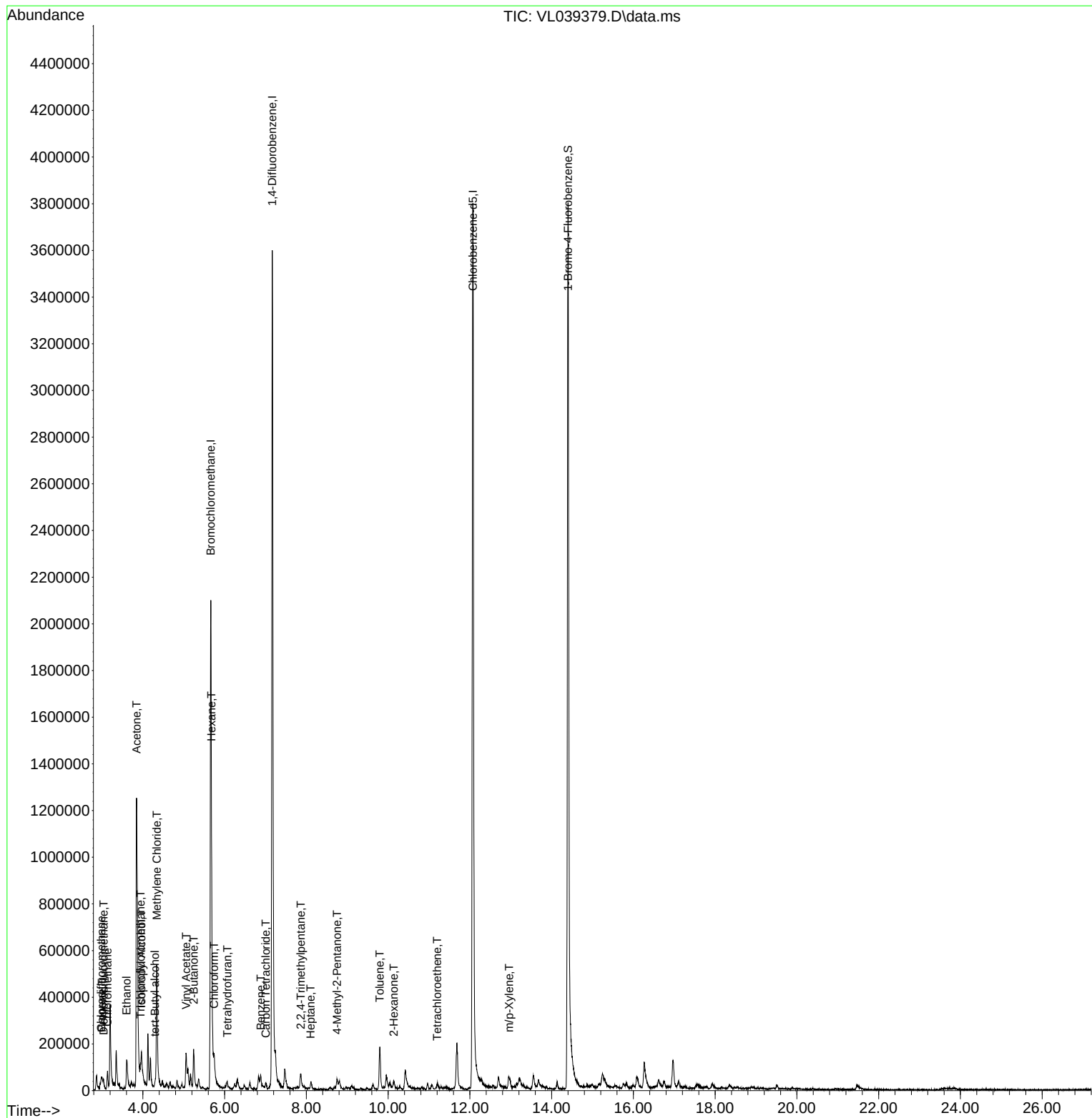
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062722\
Data File : VL039379.D
Acq On : 28 Jun 2022 5:07
Operator : SY/AP
Sample : N3508-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

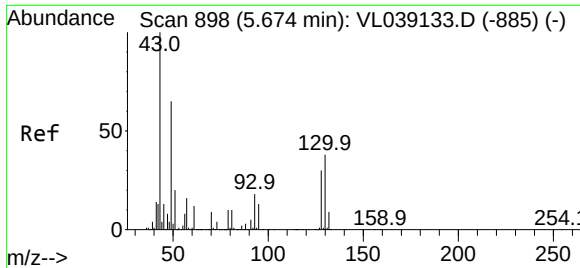
Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP

Quant Time: Jun 28 06:40:15 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

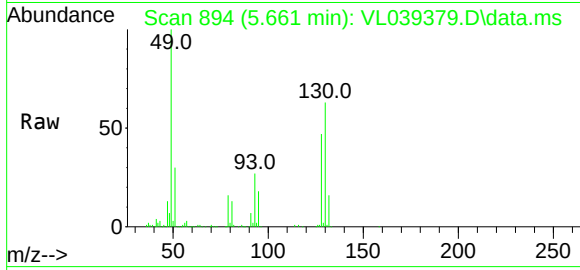
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022





#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.661 min Scan# 89
 Delta R.T. -0.013 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

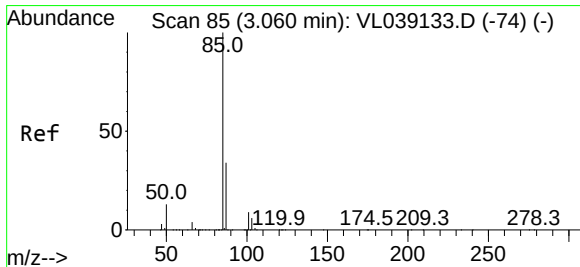
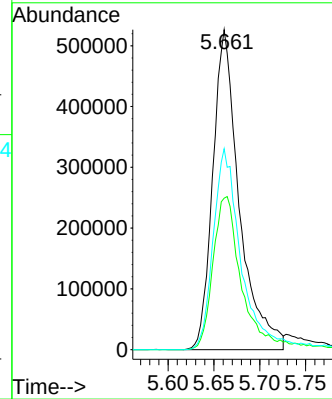
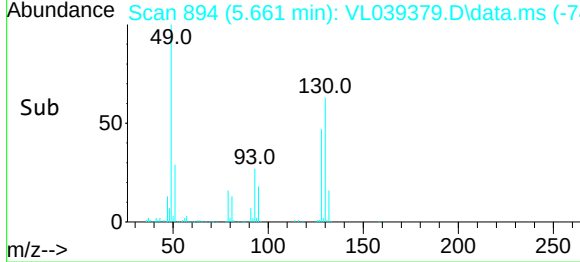
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-20220624DUP



Tgt Ion: 49 Resp: 1059314
 Ion Ratio Lower Upper
 49 100
 128 54.1 24.7 74.1
 130 68.5 31.4 94.0

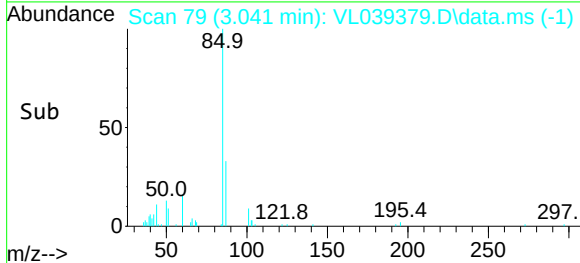
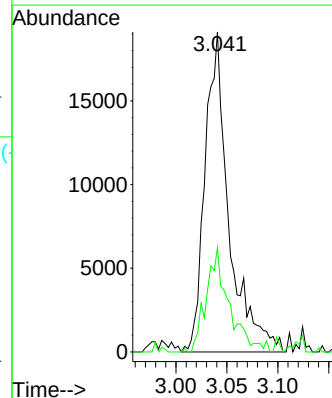
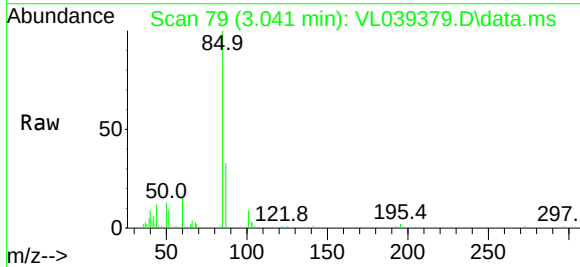
Manual Integrations
 APPROVED

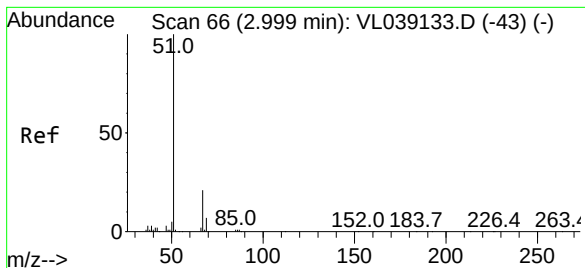
Reviewed By :Semsettin Yesilyurt 06/29/2022
 Supervised By :Mahesh Dadoda 06/30/2022



#2
 Dichlorodifluoromethane
 Concen: 0.168 ppbv m
 RT: 3.041 min Scan# 79
 Delta R.T. -0.019 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

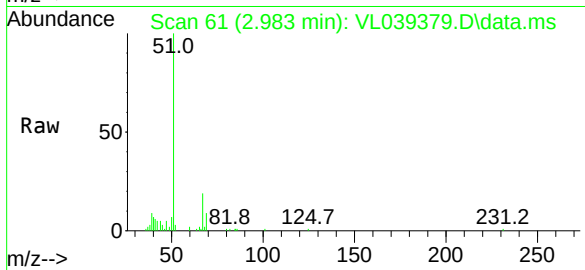
Tgt Ion: 85 Resp: 31271
 Ion Ratio Lower Upper
 85 100
 87 32.6 26.9 40.3





#3
Chlorodifluoromethane
Concen: 0.423 ppbv m
RT: 2.983 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

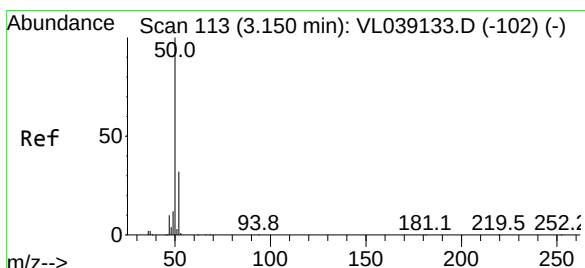
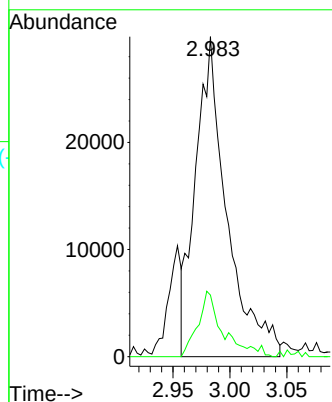
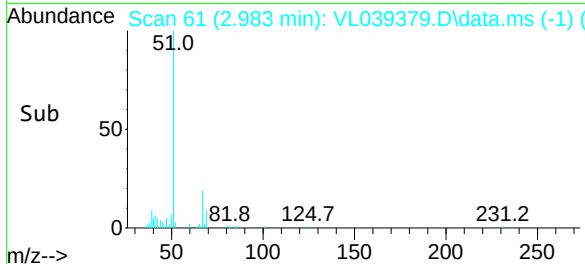
Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP



Tgt Ion: 51 Resp: 5694
Ion Ratio Lower Upper
51 100
67 16.5 16.2 24.4

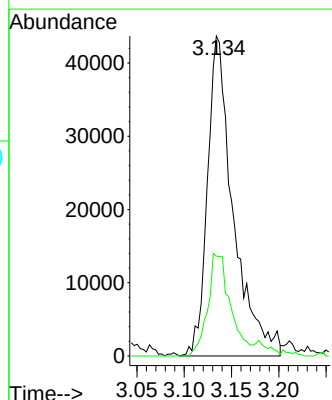
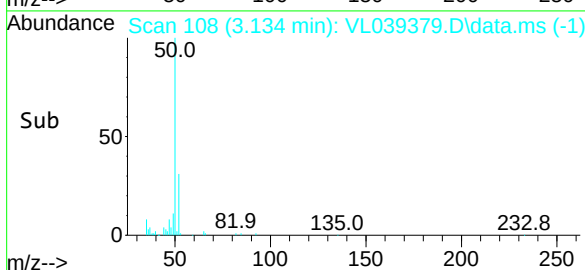
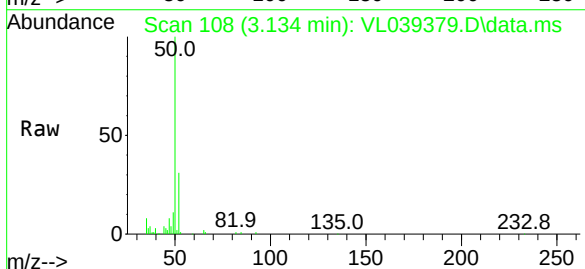
Manual Integrations
APPROVED

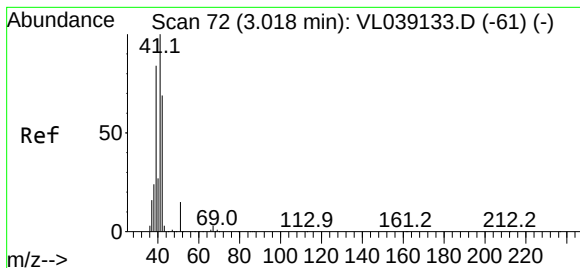
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022



#4
Chloromethane
Concen: 1.197 ppbv m
RT: 3.134 min Scan# 108
Delta R.T. -0.016 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

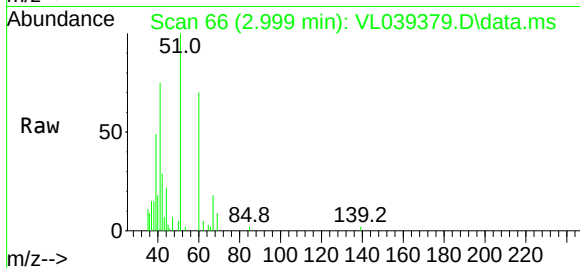
Tgt Ion: 50 Resp: 82838
Ion Ratio Lower Upper
50 100
52 31.2 25.9 38.9





#9
 Propene
 Concen: 0.229 ppbv m
 RT: 2.999 min Scan# 60
 Delta R.T. -0.019 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

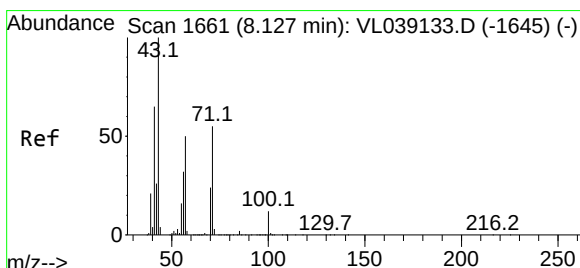
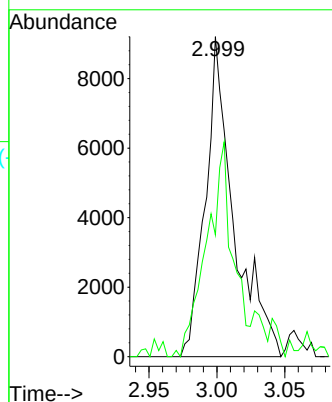
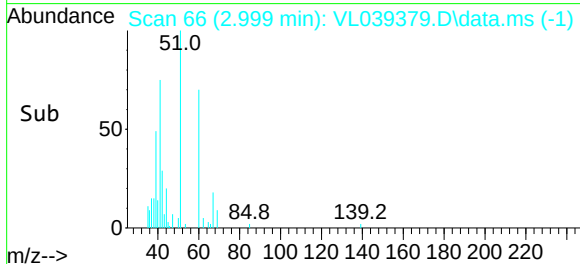
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-20220624DUP



Tgt Ion: 41 Resp: 13458
 Ion Ratio Lower Upper
 41 100
 42 71.4 55.4 83.2

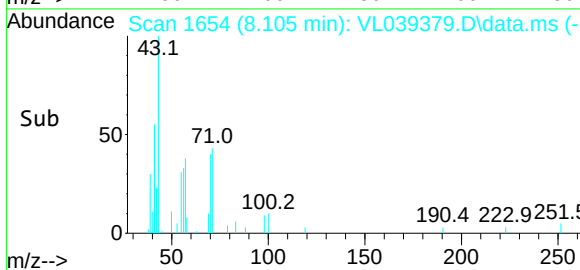
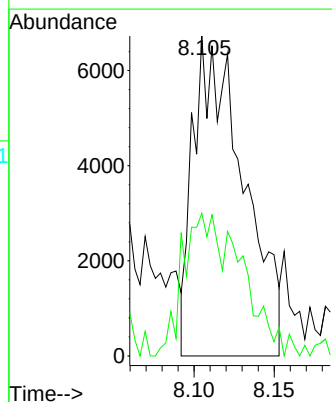
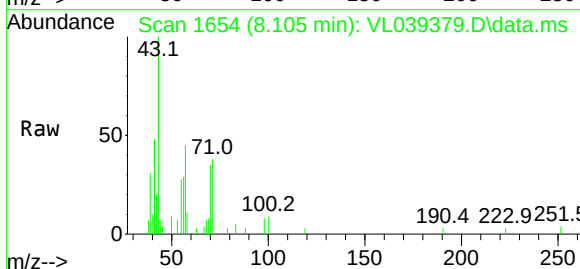
Manual Integrations
 APPROVED

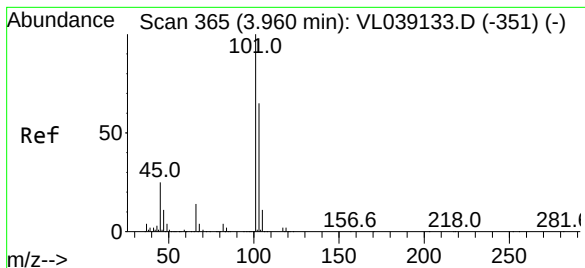
Reviewed By :Semsettin Yesilyurt 06/29/2022
 Supervised By :Mahesh Dadoda 06/30/2022



#10
 Heptane
 Concen: 0.107 ppbv m
 RT: 8.105 min Scan# 1654
 Delta R.T. -0.023 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

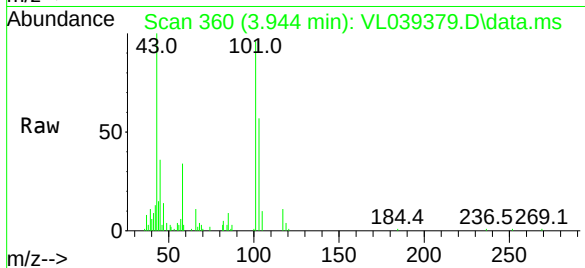
Tgt Ion: 43 Resp: 14613
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.4 62.2#





#11
Trichlorofluoromethane
Concen: 0.216 ppbv m
RT: 3.944 min Scan# 30
Delta R.T. -0.016 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

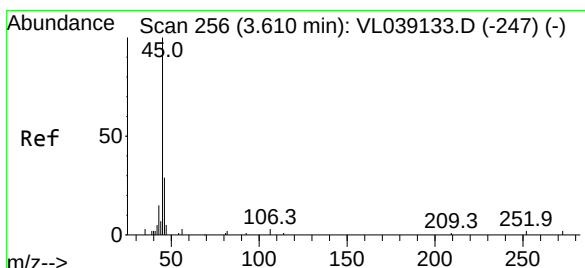
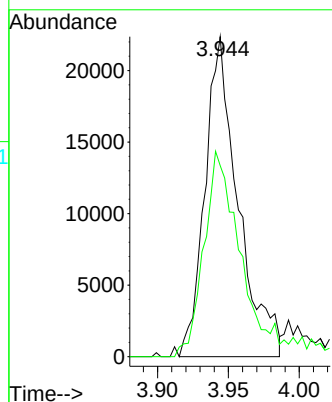
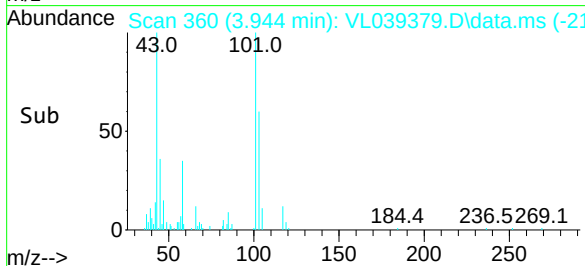
Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP



Tgt Ion:101 Resp: 3644
Ion Ratio Lower Upper
101 100
103 59.7 51.7 77.5

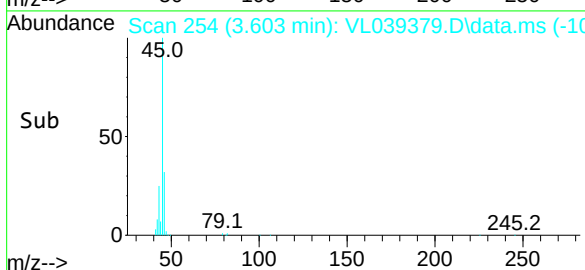
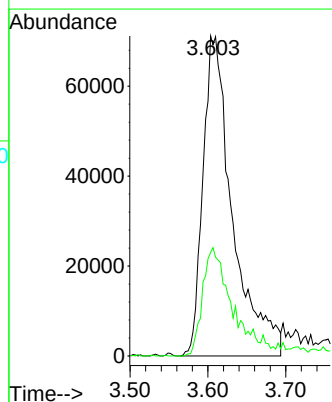
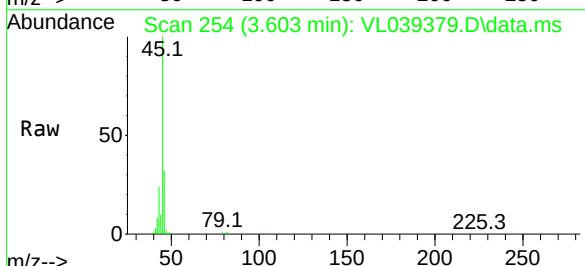
Manual Integrations
APPROVED

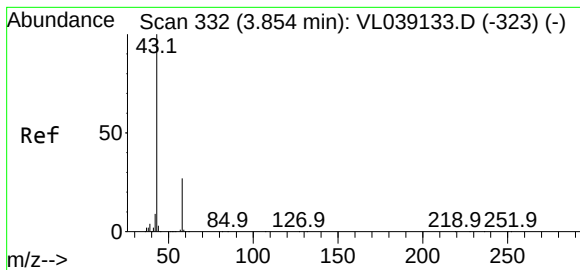
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022



#13
Ethanol
Concen: 58.687 ppbv m
RT: 3.603 min Scan# 254
Delta R.T. -0.007 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

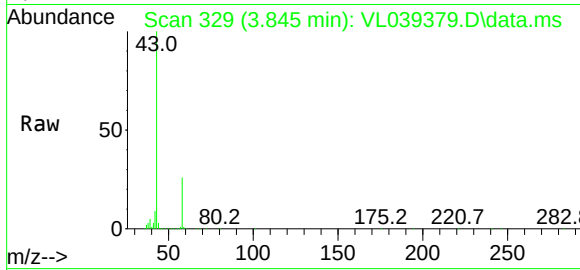
Tgt Ion: 45 Resp: 188099
Ion Ratio Lower Upper
45 100
46 36.8 0.0 0.0#





#15
Acetone
Concen: 15.605 ppbv
RT: 3.845 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

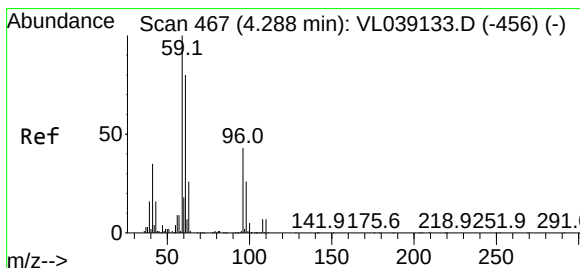
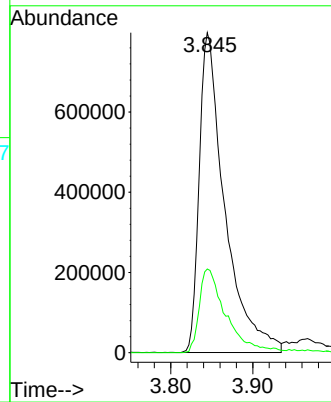
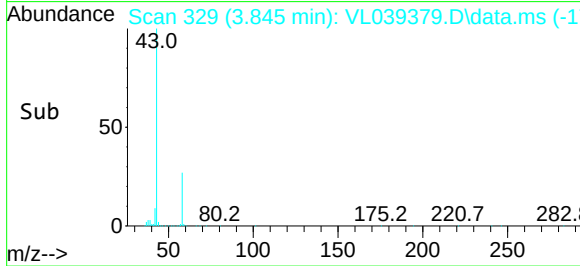
Instrument : MSVOA_L
ClientSampleId : AA-1-20220624DUP



Tgt Ion: 43 Resp: 1722000
Ion Ratio Lower Upper
43 100
58 28.7 22.5 33.7

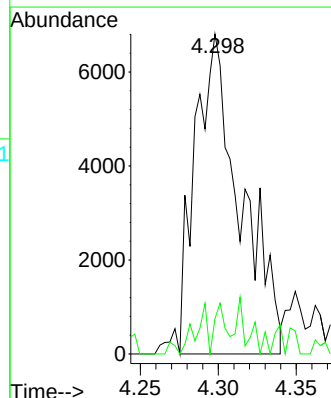
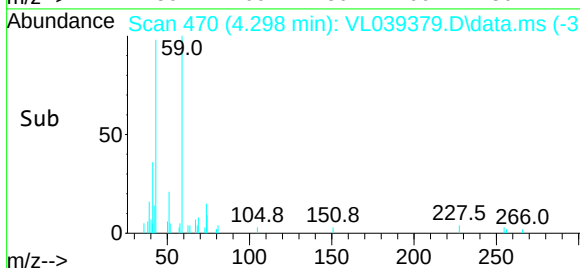
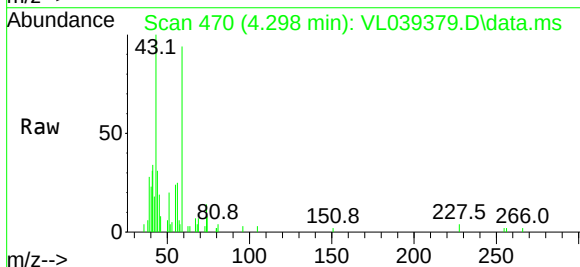
Manual Integrations
APPROVED

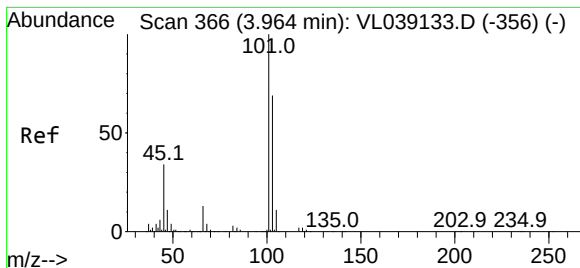
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022



#17
tert-Butyl alcohol
Concen: 0.161 ppbv m
RT: 4.298 min Scan# 470
Delta R.T. 0.010 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

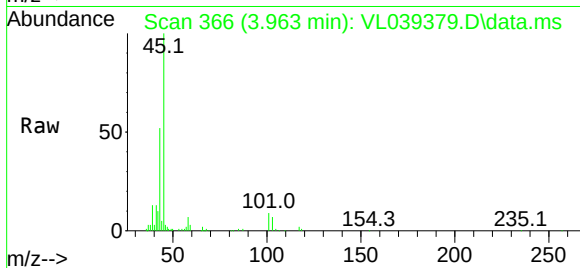
Tgt Ion: 59 Resp: 13771
Ion Ratio Lower Upper
59 100
57 0.0 9.1 13.7#





#19
Isopropyl Alcohol
Concen: 2.920 ppbv m
RT: 3.963 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

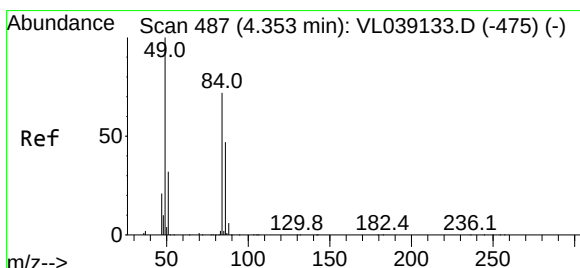
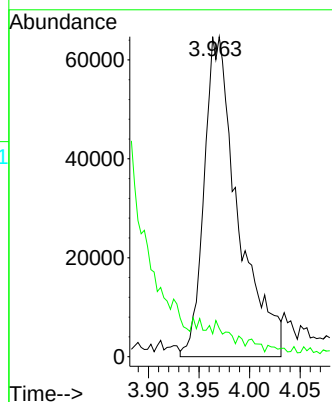
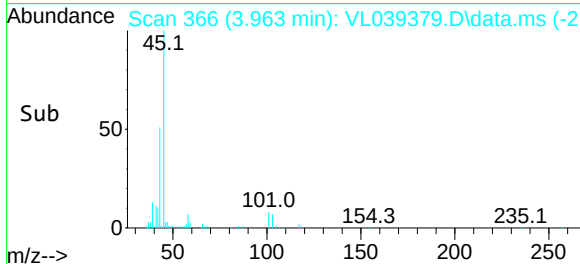
Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP



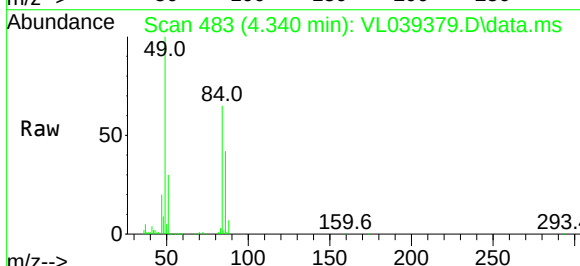
Tgt Ion: 45 Resp: 15111
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.8

Manual Integrations
APPROVED

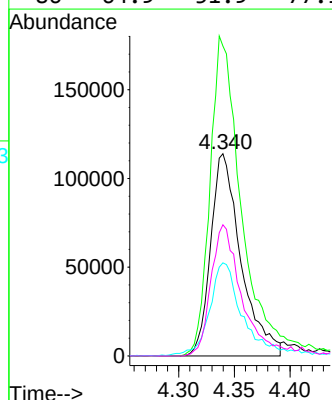
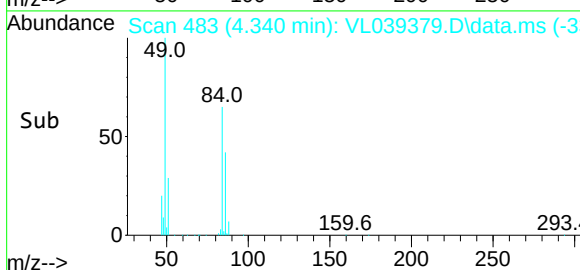
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022

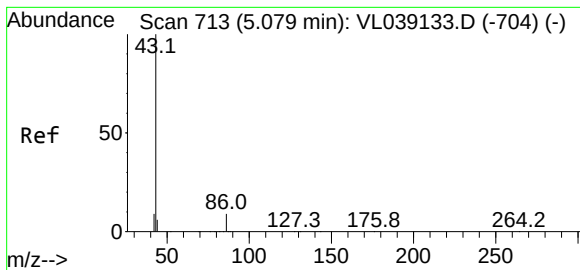


#20
Methylene Chloride
Concen: 4.649 ppbv
RT: 4.340 min Scan# 483
Delta R.T. -0.013 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07



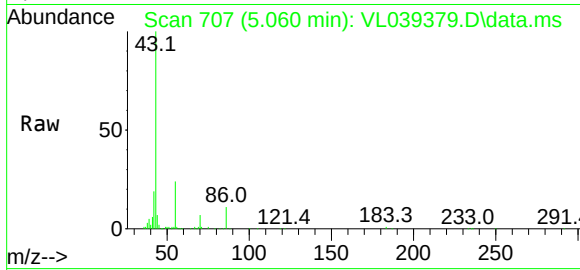
Tgt Ion: 84 Resp: 216180
Ion Ratio Lower Upper
84 100
49 153.1 111.1 166.7
51 44.8 35.3 52.9
86 64.9 51.9 77.9





#23
 Vinyl Acetate
 Concen: 1.570 ppbv
 RT: 5.060 min Scan# 707
 Delta R.T. -0.019 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

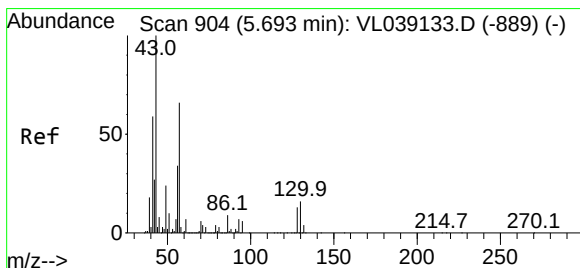
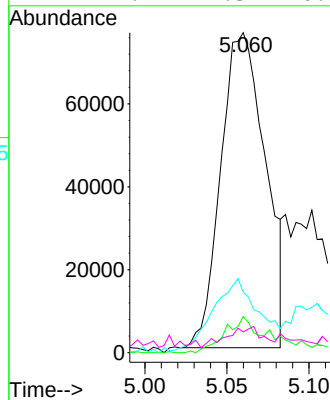
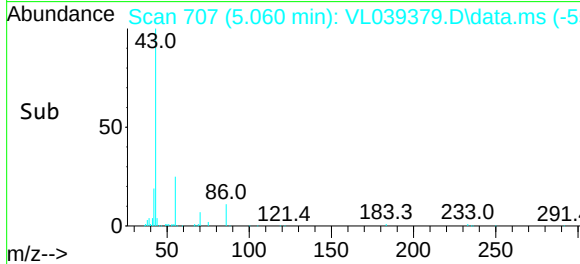
Instrument : MSVOA_L
 ClientSampleId : AA-1-20220624DUP



Tgt Ion: 43 Resp: 143300
 Ion Ratio Lower Upper
 43 100
 86 11.5 6.0 9.0
 42 17.7 8.2 12.4
 44 2.9 4.3 6.5

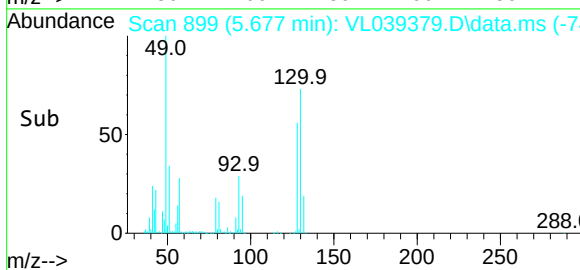
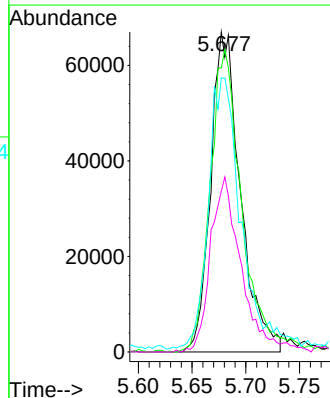
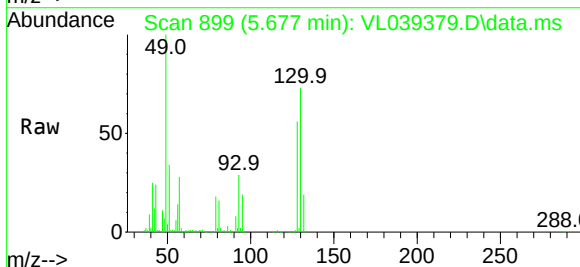
Manual Integrations
 APPROVED

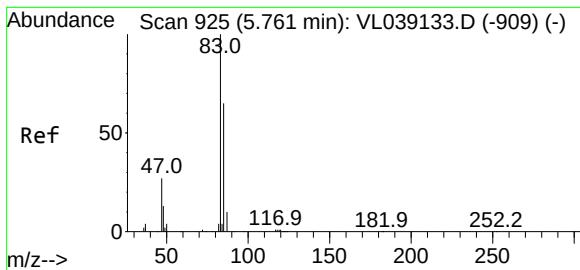
Reviewed By :Semsettin Yesilyurt 06/29/2022
 Supervised By :Mahesh Dadoda 06/30/2022



#26
 Hexane
 Concen: 1.180 ppbv
 RT: 5.677 min Scan# 899
 Delta R.T. -0.016 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

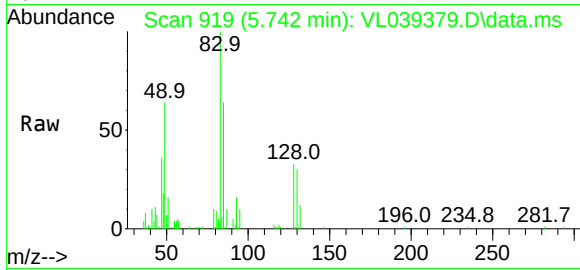
Tgt Ion: 57 Resp: 128998
 Ion Ratio Lower Upper
 57 100
 41 102.9 72.4 108.6
 43 95.4 187.0 280.6
 56 57.1 41.8 62.6





#29
Chloroform
Concen: 0.300 ppbv
RT: 5.742 min Scan# 919
Delta R.T. -0.019 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

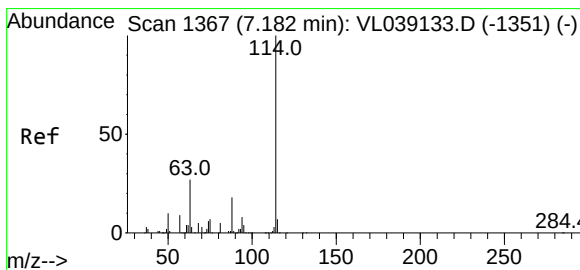
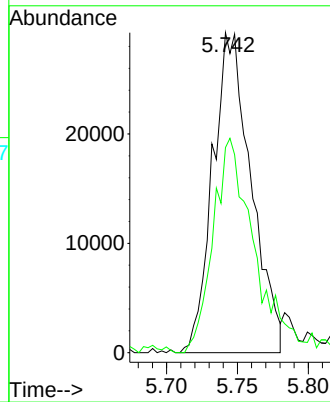
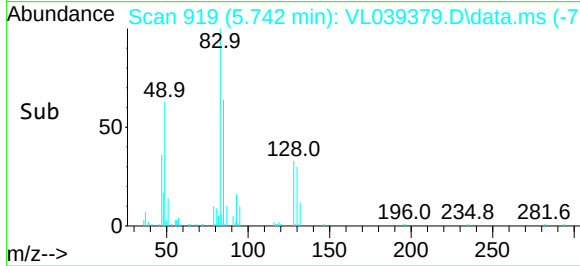
Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP



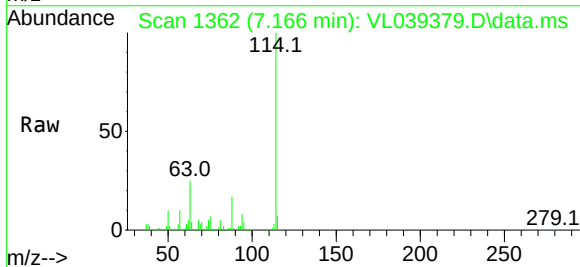
Tgt Ion: 83 Resp: 55239
Ion Ratio Lower Upper
83 100
85 64.1 52.4 78.6

Manual Integrations
APPROVED

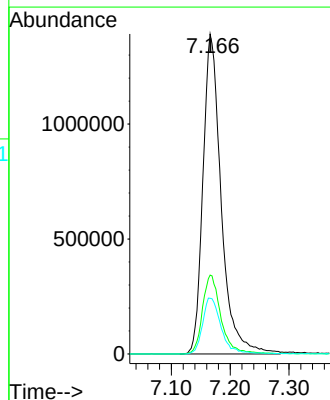
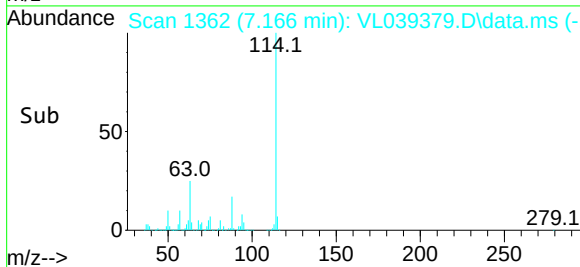
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022

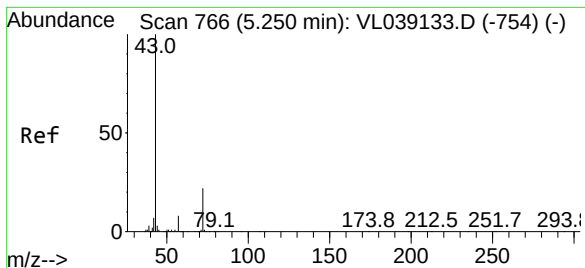


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.166 min Scan# 1362
Delta R.T. -0.016 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07



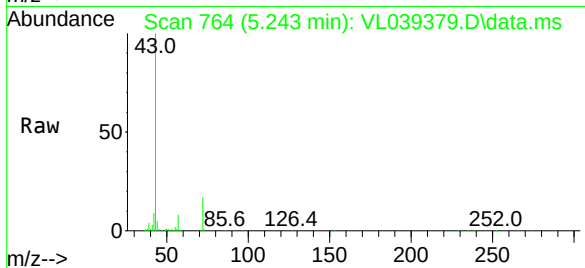
Tgt Ion:114 Resp: 2995715
Ion Ratio Lower Upper
114 100
63 25.3 21.7 32.5
88 17.9 14.8 22.2





#34
2-Butanone
Concen: 1.338 ppbv
RT: 5.243 min Scan# 764
Delta R.T. -0.007 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

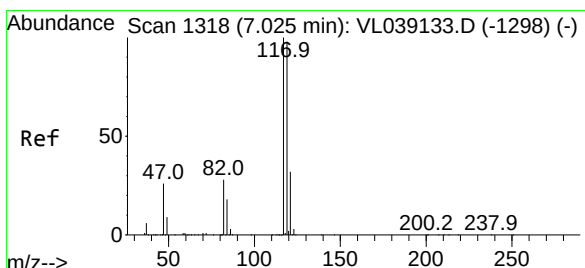
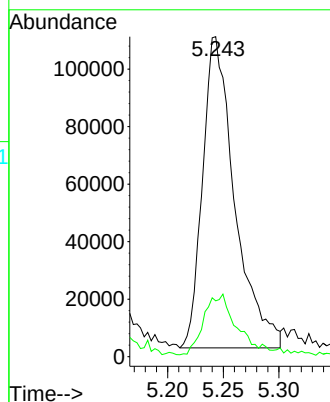
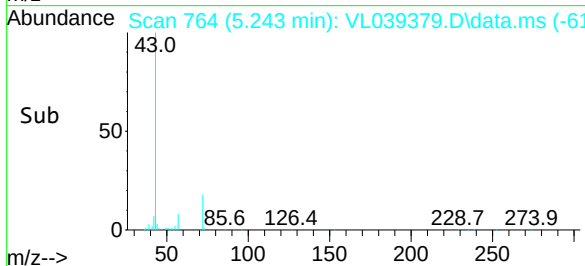
Instrument : MSVOA_L
ClientSampleId : AA-1-20220624DUP



Tgt Ion: 43 Resp: 21779
Ion Ratio Lower Upper
43 100
72 23.4 18.2 27.2

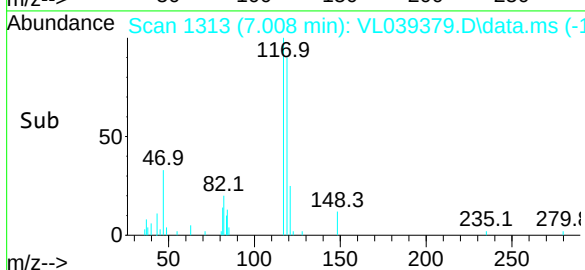
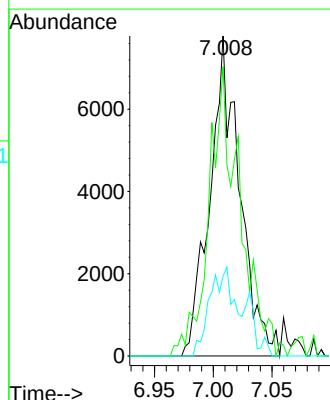
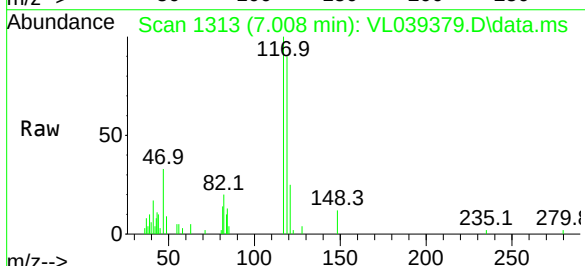
Manual Integrations
APPROVED

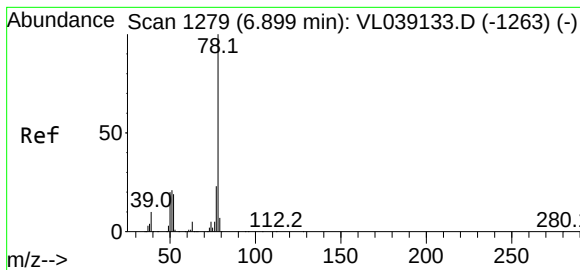
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022



#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.008 min Scan# 1313
Delta R.T. -0.016 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

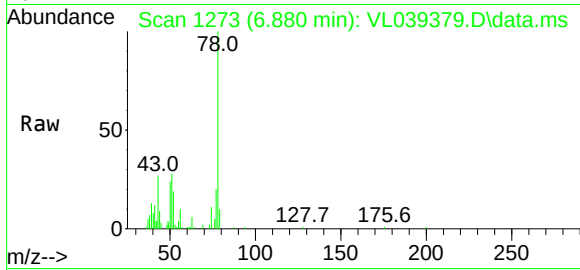
Tgt Ion:117 Resp: 13802
Ion Ratio Lower Upper
117 100
119 90.4 78.6 118.0
121 25.0 25.4 38.0#





#36
Benzene
Concen: 0.159 ppbv m
RT: 6.880 min Scan# 1020
Delta R.T. -0.019 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

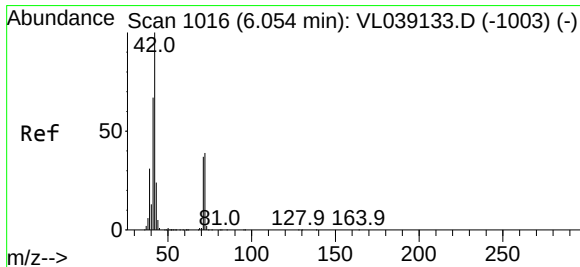
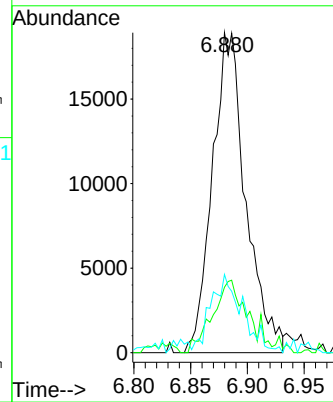
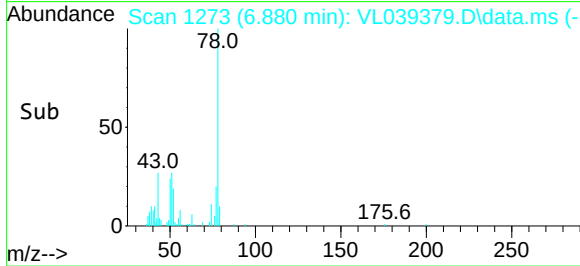
Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP



Tgt Ion: 78 Resp: 38714
Ion Ratio Lower Upper
78 100
77 20.4 18.6 27.8
50 24.5 15.8 23.8

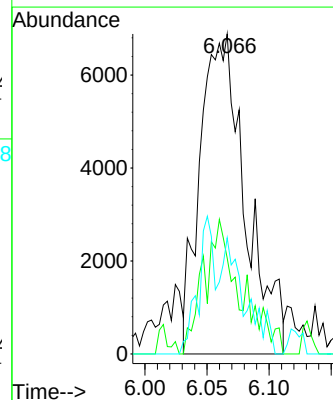
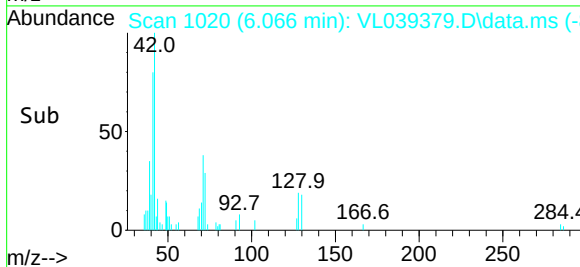
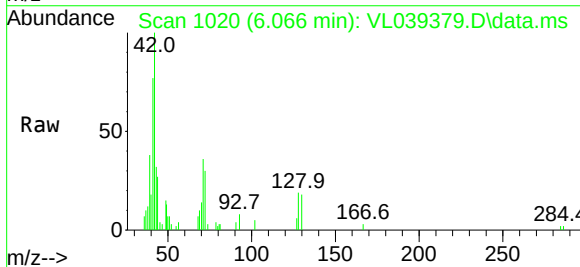
Manual Integrations
APPROVED

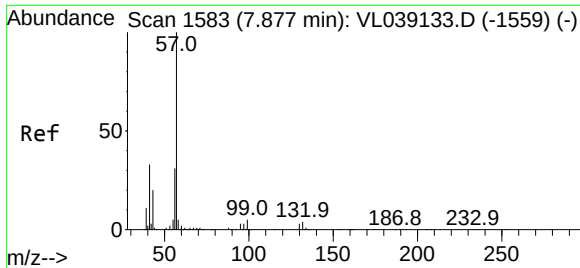
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022



#41
Tetrahydrofuran
Concen: 0.178 ppbv m
RT: 6.066 min Scan# 1020
Delta R.T. 0.013 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

Tgt Ion: 42 Resp: 17425
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 0.0 31.1 46.7#





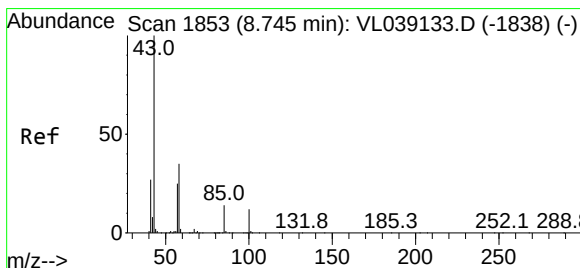
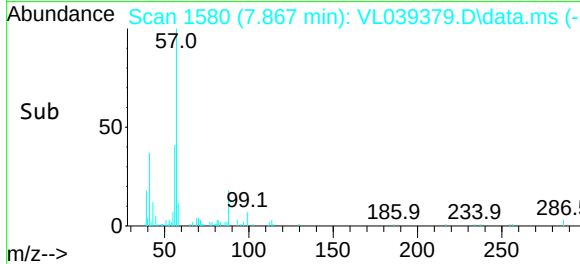
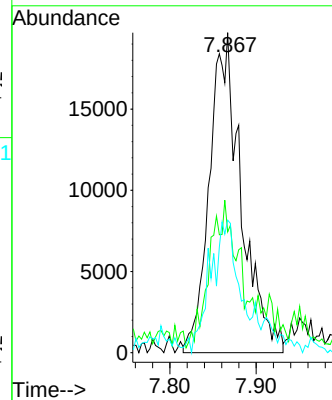
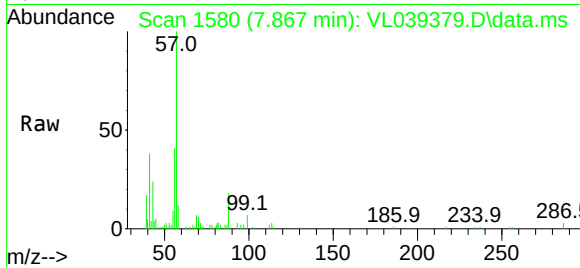
#44
2,2,4-Trimethylpentane
Concen: 0.118 ppbv m
RT: 7.867 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP

Tgt Ion: 57 Resp: 50290
Ion Ratio Lower Upper
57 100
41 0.0 26.2 39.4
56 0.0 24.7 37.1

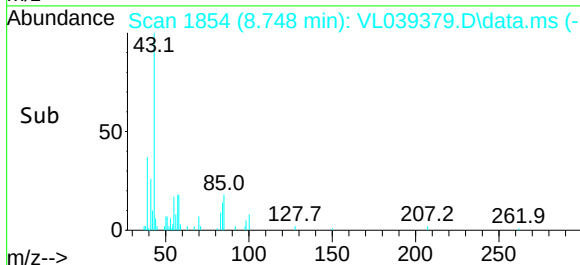
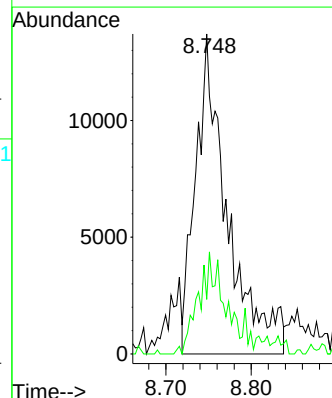
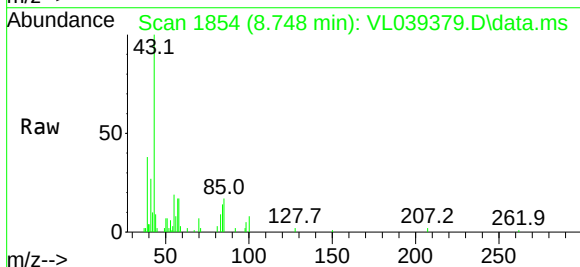
Manual Integrations
APPROVED

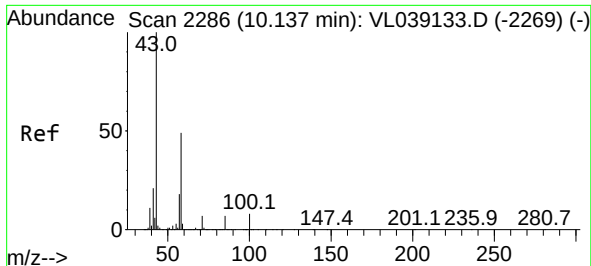
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022



#50
4-Methyl-2-Pentanone
Concen: 0.144 ppbv m
RT: 8.748 min Scan# 1854
Delta R.T. 0.003 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

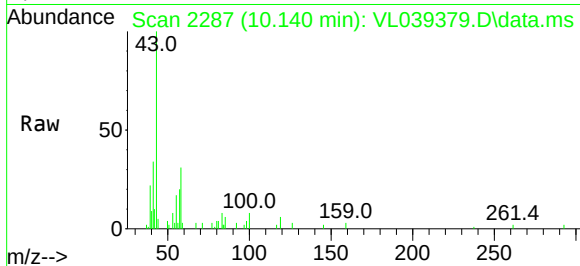
Tgt Ion: 43 Resp: 35190
Ion Ratio Lower Upper
43 100
58 0.0 28.7 43.1





#51
2-Hexanone
Concen: 0.167 ppbv m
RT: 10.140 min Scan# 2167
Delta R.T. 0.003 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

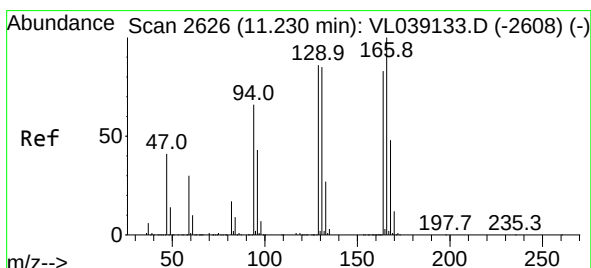
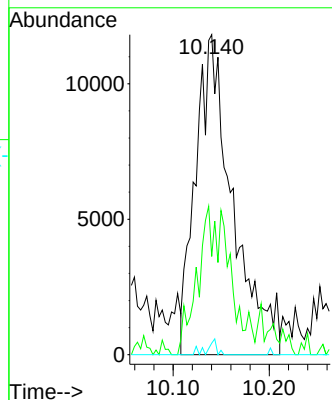
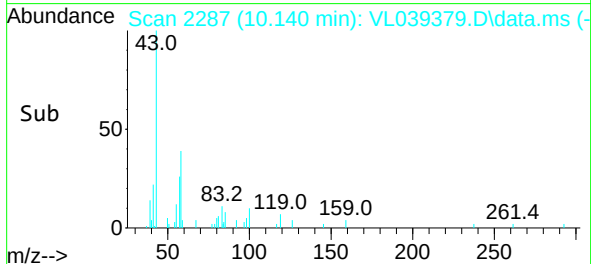
Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP



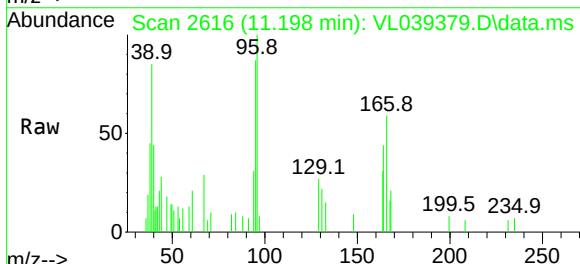
Tgt Ion: 43 Resp: 31672
Ion Ratio Lower Upper
43 100
58 0.0 40.0 60.0#
98 0.0 0.1 0.1#

Manual Integrations
APPROVED

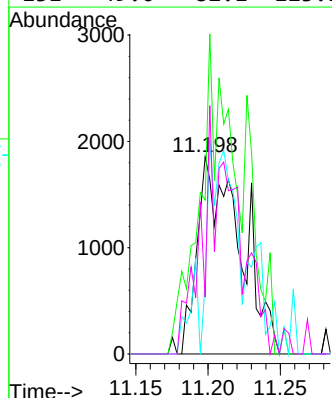
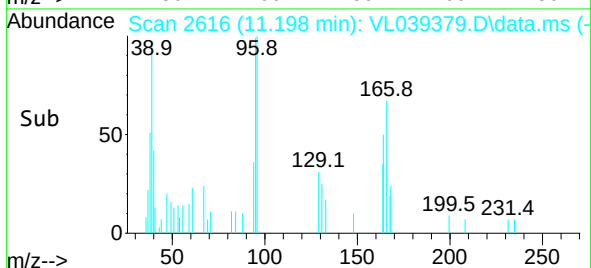
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022

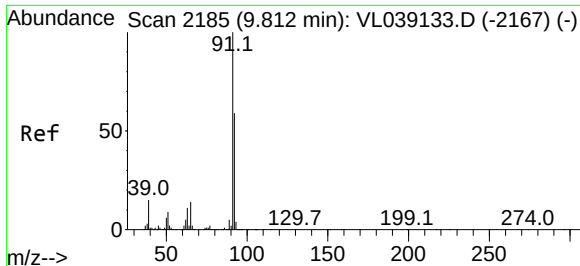


#52
Tetrachloroethene
Concen: 0.040 ppbv m
RT: 11.198 min Scan# 2616
Delta R.T. -0.032 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07



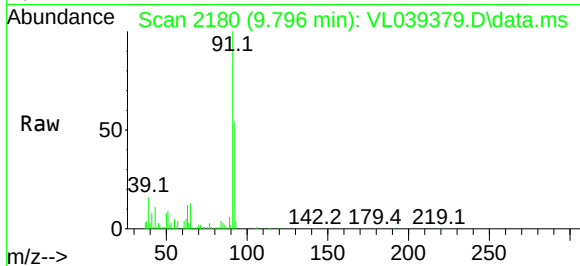
Tgt Ion:164 Resp: 3837
Ion Ratio Lower Upper
164 100
166 132.7 96.3 144.5
129 61.6 82.5 123.7#
131 49.0 82.1 123.1#





#53
Toluene
Concen: 0.457 ppbv
RT: 9.796 min Scan# 2185
Delta R.T. -0.016 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

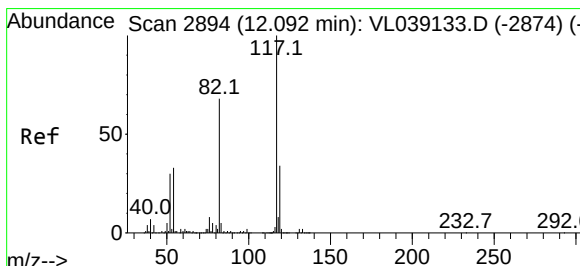
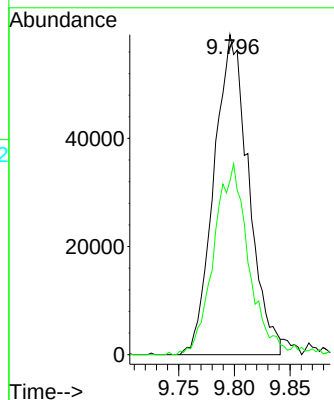
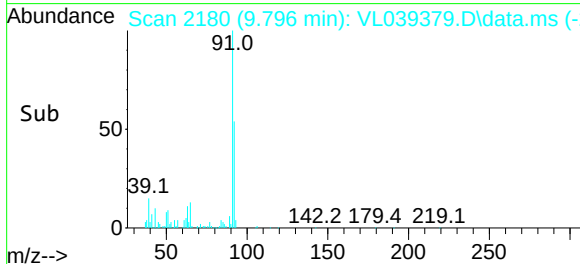
Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP



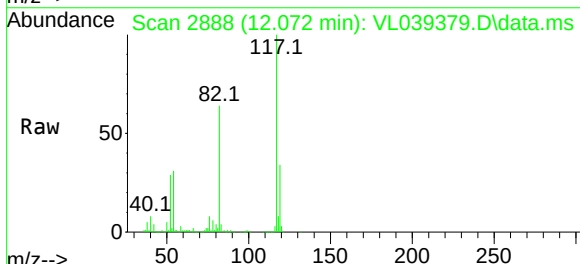
Tgt Ion: 91 Resp: 128110
Ion Ratio Lower Upper
91 100
92 60.8 48.1 72.1

Manual Integrations
APPROVED

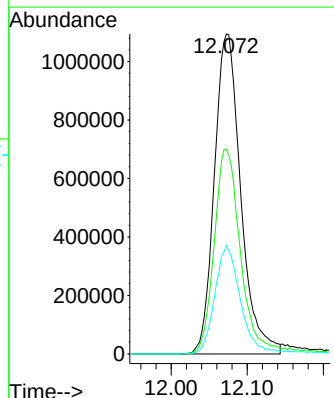
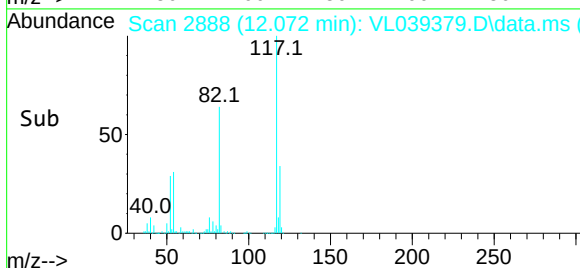
Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022

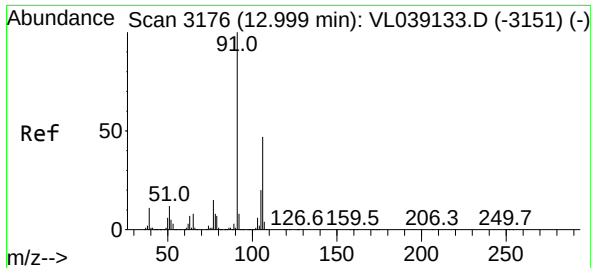


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.072 min Scan# 2888
Delta R.T. -0.019 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07



Tgt Ion:117 Resp: 2635626
Ion Ratio Lower Upper
117 100
82 65.8 55.1 82.7
119 33.5 24.7 37.1





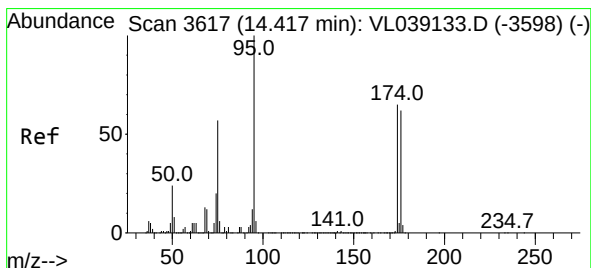
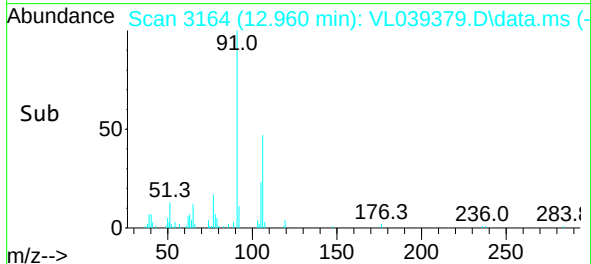
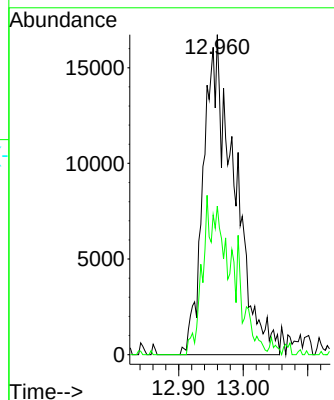
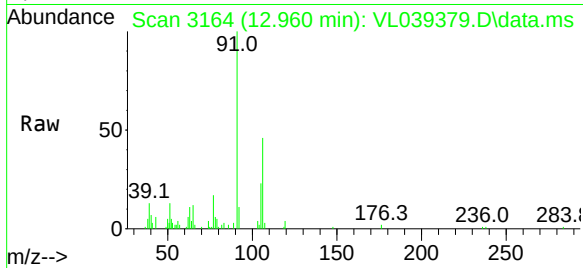
#59
m/p-Xylene
Concen: 0.175 ppbv m
RT: 12.960 min Scan# 3176
Delta R.T. -0.039 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

Instrument :
MSVOA_L
ClientSampleId :
AA-1-20220624DUP

Tgt Ion: 91 Resp: 55849
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/29/2022
Supervised By :Mahesh Dadoda 06/30/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.071 ppbv
RT: 14.400 min Scan# 3612
Delta R.T. -0.016 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

Tgt Ion: 95 Resp: 1976597
Ion Ratio Lower Upper
95 100
174 70.5 53.8 80.8
175 5.5 4.1 6.1

