

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032822\
 Data File : VL038780.D
 Acq On : 28 Mar 2022 21:00
 Operator : SY/AP
 Sample : N2078-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/29/2022
 Supervised By :Mahesh Dadoda 03/29/2022

Quant Time: Mar 29 06:13:33 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 29 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.665	49	708926	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.166	114	1951131	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.076	117	1673344	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.404	95	1265086	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.054	85	23739	0.249	ppbv	94
3) Chlorodifluoromethane	2.989	51	29788	0.398	ppbv	92
4) Chloromethane	3.147	50	23008	0.560	ppbv	96
9) Propene	3.018	41	35768	0.989	ppbv	92
10) Heptane	8.115	43	15226m	0.176	ppbv	
11) Trichlorofluoromethane	3.954	101	25421	0.302	ppbv	96
13) Ethanol	3.604	45	114200m	28.640	ppbv	
15) Acetone	3.861	43	122733	2.006	ppbv #	79
19) Isopropyl Alcohol	3.980	45	28858m	0.851	ppbv	
20) Methylene Chloride	4.340	84	30151	1.170	ppbv	99
26) Hexane	5.681	57	53395	0.775	ppbv #	46
30) Cyclohexane	7.131	84	7304m	0.122	ppbv	
34) 2-Butanone	5.253	43	23825	0.309	ppbv #	85
35) Carbon Tetrachloride	7.015	117	7987m	0.071	ppbv	
36) Benzene	6.886	78	59226	0.393	ppbv	96
44) 2,2,4-Trimethylpentane	7.861	57	66114	0.261	ppbv #	76
53) Toluene	9.799	91	193234	1.194	ppbv	96
58) Ethyl Benzene	12.693	91	28867m	0.148	ppbv	
59) m/p-Xylene	12.954	91	92988m	0.543	ppbv	
60) o-Xylene	13.687	91	30967	0.191	ppbv	99
74) 1,2,4-Trimethylbenzene	16.754	105	25985m	0.137	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032822\
Data File : VL038780.D
Acq On : 28 Mar 2022 21:00
Operator : SY/AP
Sample : N2078-08
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
V-6

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/29/2022
Supervised By : Mahesh Dadoda 03/29/2022

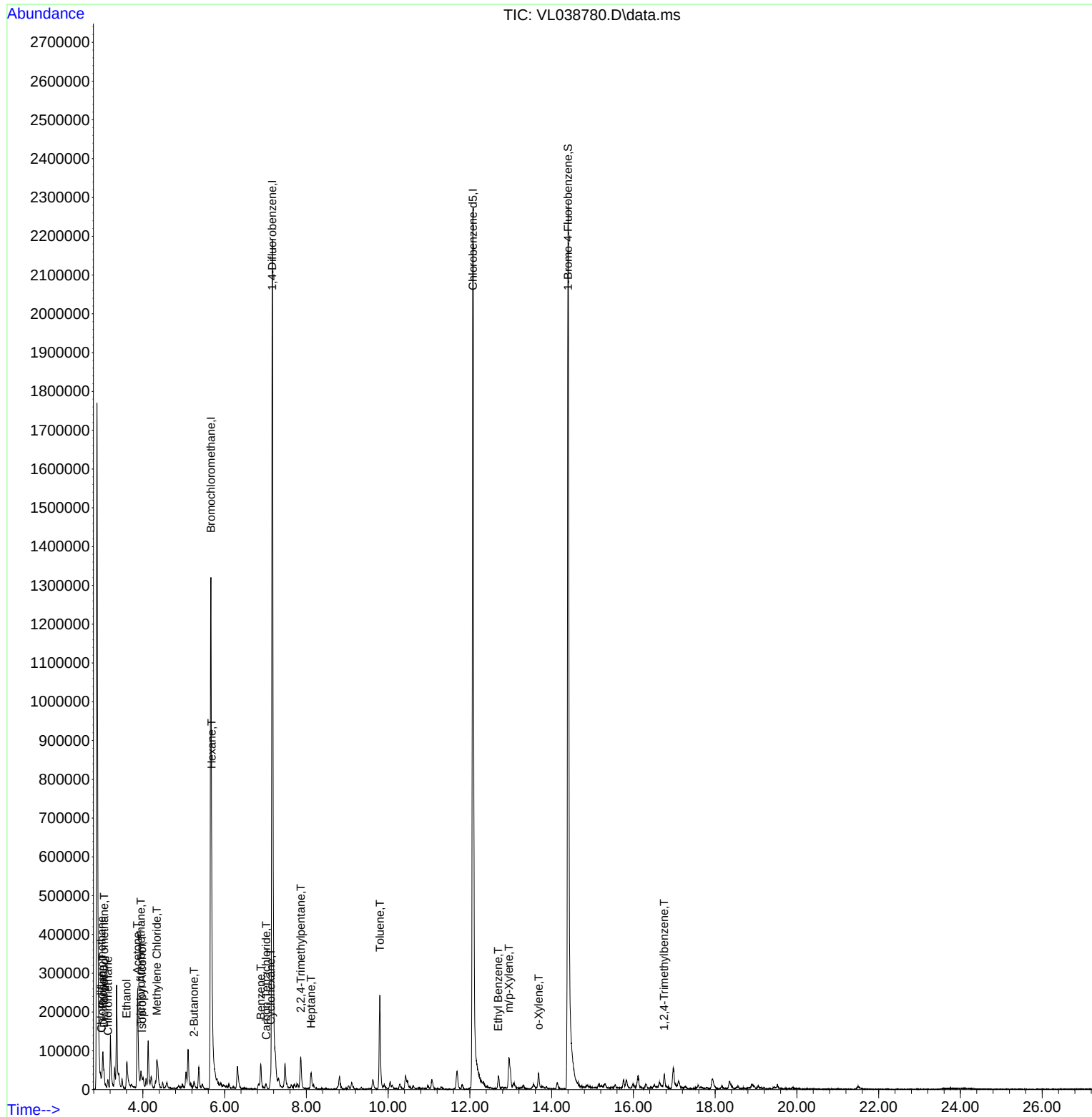
Quant Time: Mar 29 06:13:33 2022

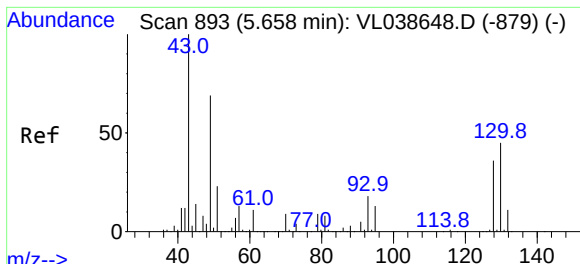
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar

QLast Update : Mon Mar 21 17:09:26 2022

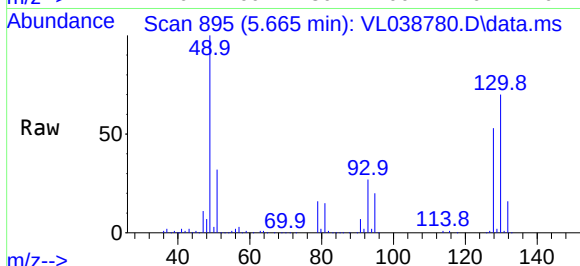
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.665 min Scan# 89
Delta R.T. 0.006 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

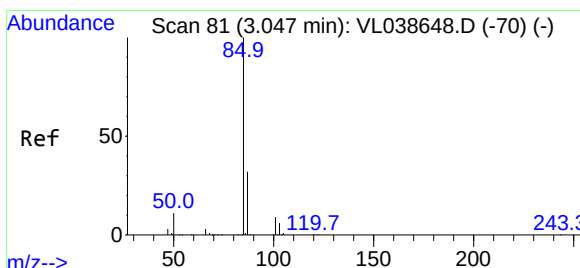
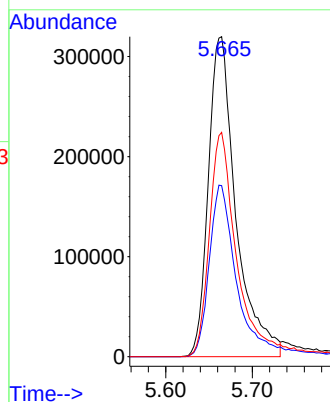
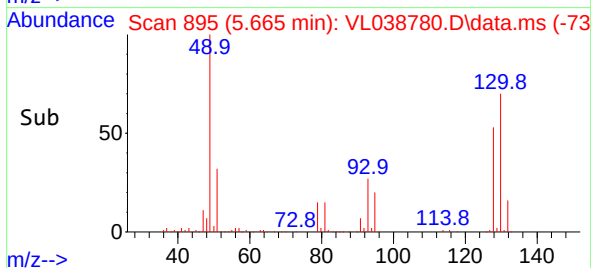
Instrument :
MSVOA_L
ClientSampleId :
V-6



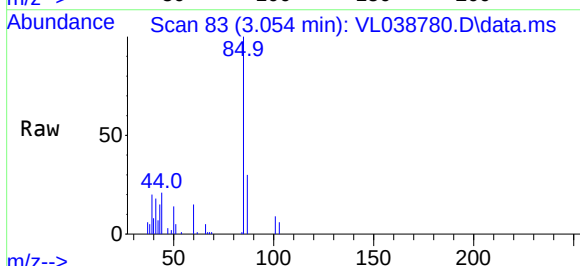
Tgt Ion: 49 Resp: 708920
Ion Ratio Lower Upper
49 100
128 56.3 26.2 78.6
130 73.0 33.7 101.1

Manual Integrations
APPROVED

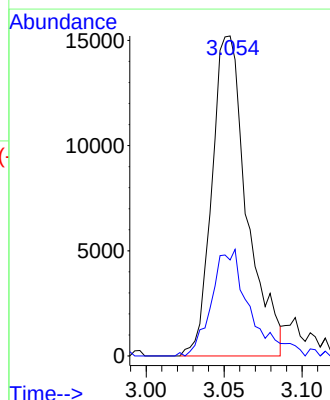
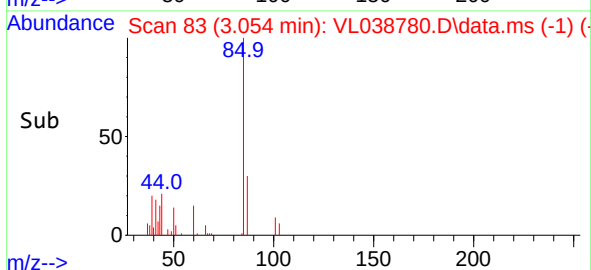
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

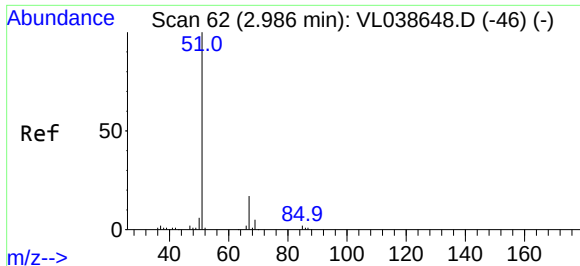


#2
Dichlorodifluoromethane
Concen: 0.249 ppbv
RT: 3.054 min Scan# 83
Delta R.T. 0.006 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00



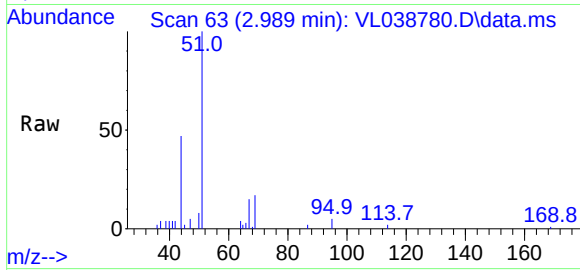
Tgt Ion: 85 Resp: 23739
Ion Ratio Lower Upper
85 100
87 29.0 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.398 ppbv
RT: 2.989 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

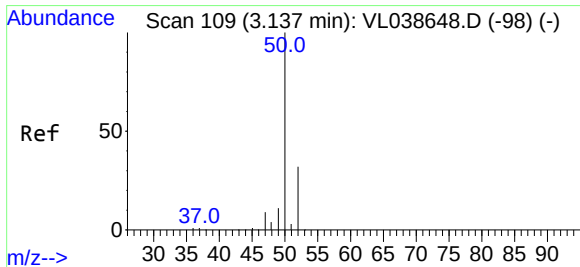
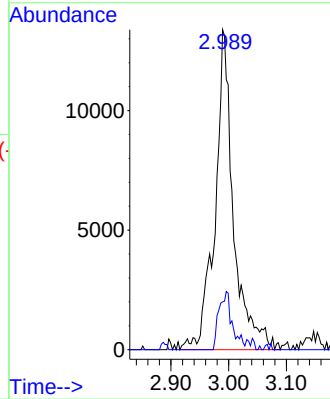
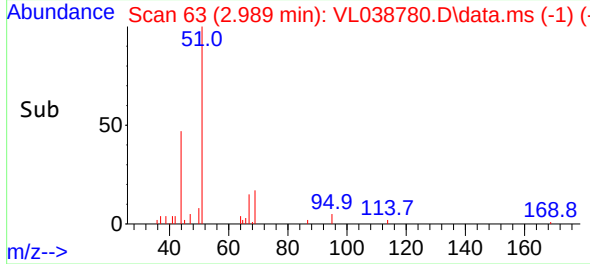
Instrument :
MSVOA_L
ClientSampleId :
V-6



Tgt Ion: 51 Resp: 29788
Ion Ratio Lower Upper
51 100
67 14.2 14.1 21.1

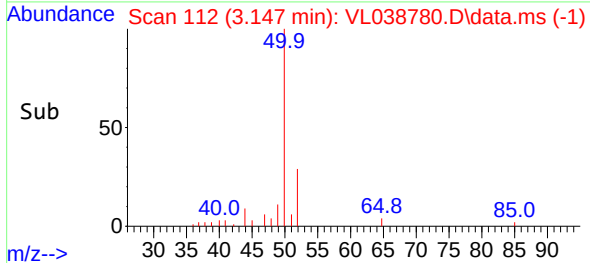
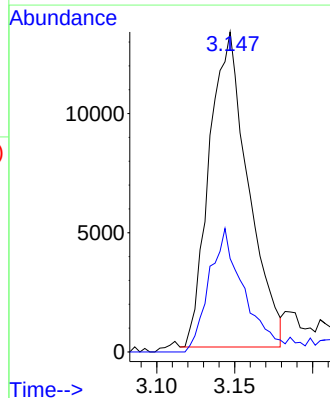
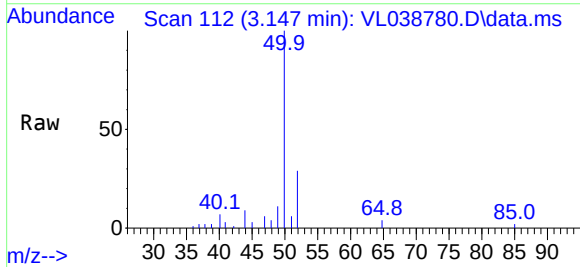
Manual Integrations
APPROVED

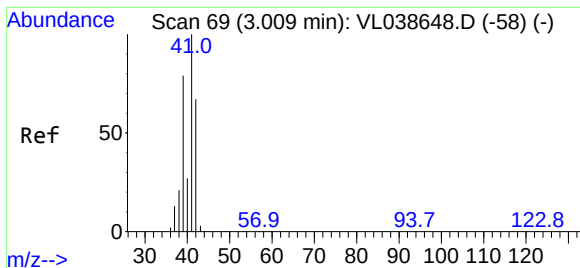
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#4
Chloromethane
Concen: 0.560 ppbv
RT: 3.147 min Scan# 112
Delta R.T. 0.010 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

Tgt Ion: 50 Resp: 23008
Ion Ratio Lower Upper
50 100
52 29.7 25.5 38.3





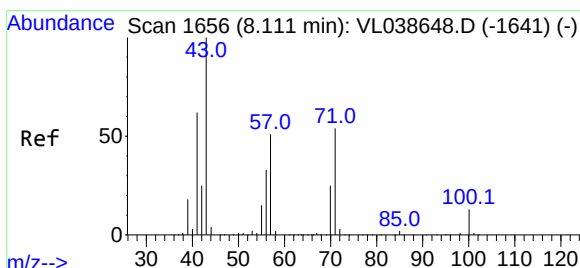
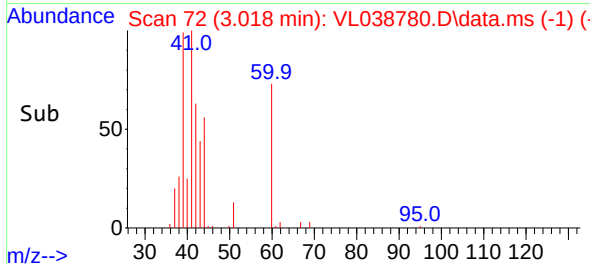
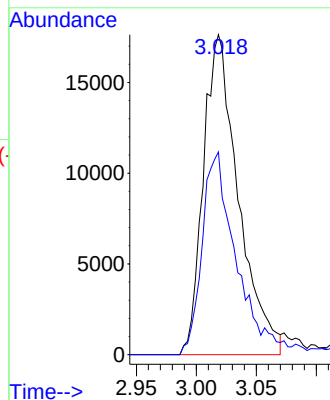
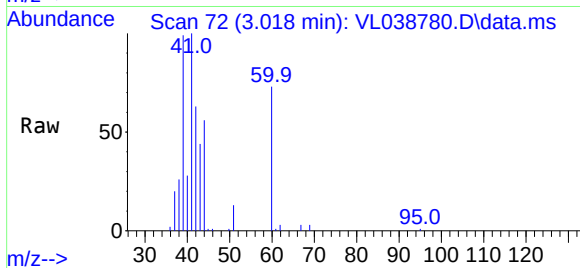
#9
 Propene
 Concen: 0.989 ppbv
 RT: 3.018 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL038780.D
 Acq: 28 Mar 2022 21:00

Instrument :
 MSVOA_L
 ClientSampleId :
 V-6

Tgt Ion: 41 Resp: 3576
 Ion Ratio Lower Upper
 41 100
 42 64.1 56.2 84.4

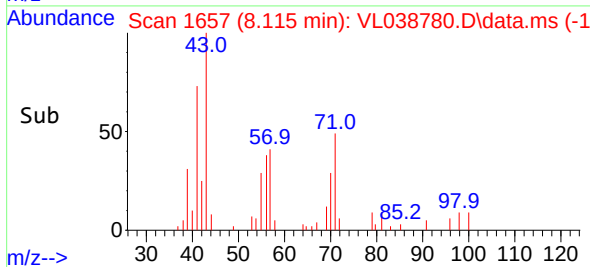
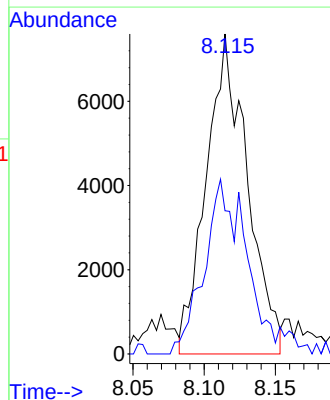
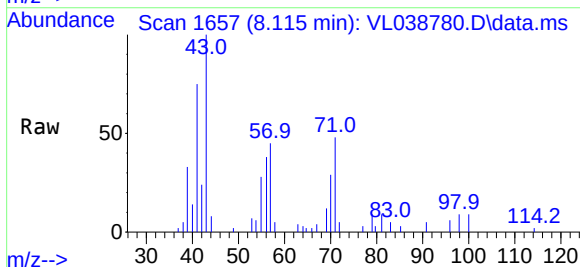
Manual Integrations
 APPROVED

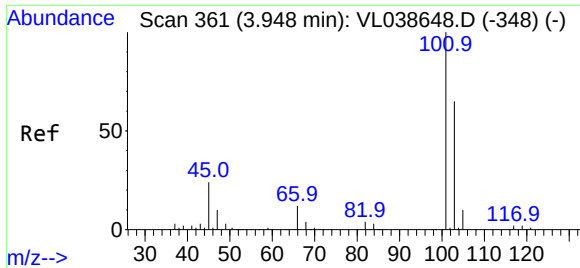
Reviewed By :Semsettin Yesilyurt 03/29/2022
 Supervised By :Mahesh Dadoda 03/29/2022



#10
 Heptane
 Concen: 0.176 ppbv m
 RT: 8.115 min Scan# 1657
 Delta R.T. 0.003 min
 Lab File: VL038780.D
 Acq: 28 Mar 2022 21:00

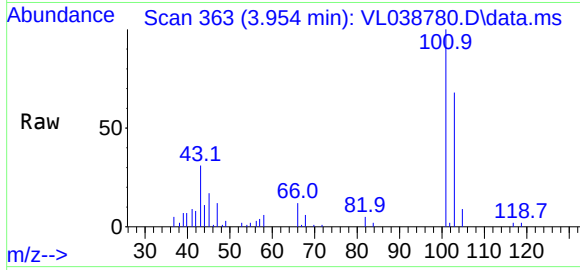
Tgt Ion: 43 Resp: 15226
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.4 62.2#





#11
 Trichlorofluoromethane
 Concen: 0.302 ppbv
 RT: 3.954 min Scan# 30
 Delta R.T. 0.006 min
 Lab File: VL038780.D
 Acq: 28 Mar 2022 21:00

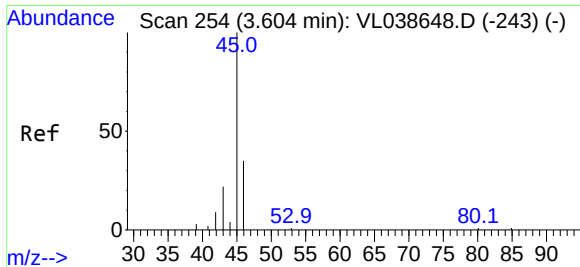
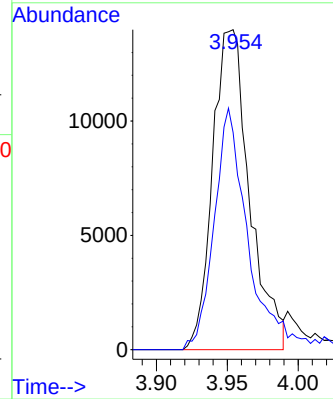
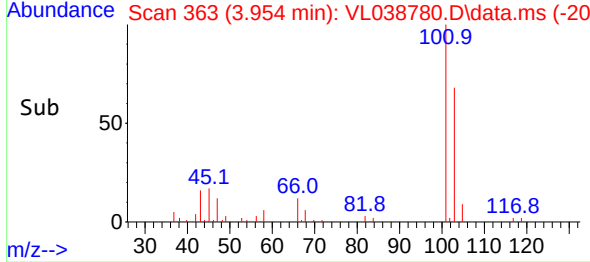
Instrument :
 MSVOA_L
 ClientSampleId :
 V-6



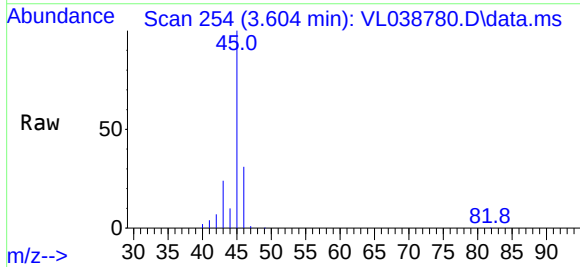
Tgt Ion:101 Resp: 2542
 Ion Ratio Lower Upper
 101 100
 103 67.9 51.9 77.9

Manual Integrations
 APPROVED

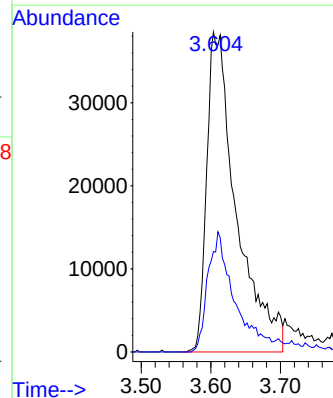
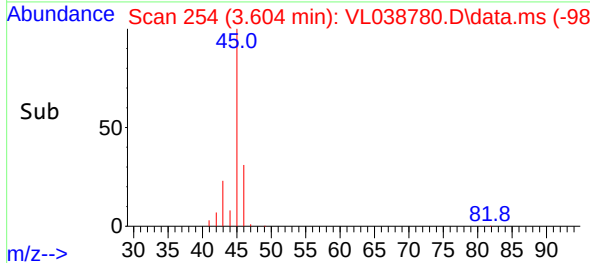
Reviewed By :Semsettin Yesilyurt 03/29/2022
 Supervised By :Mahesh Dadoda 03/29/2022

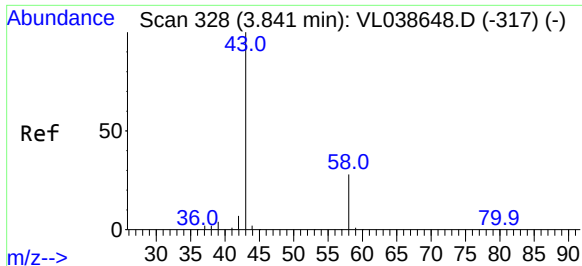


#13
 Ethanol
 Concen: 28.640 ppbv m
 RT: 3.604 min Scan# 254
 Delta R.T. 0.000 min
 Lab File: VL038780.D
 Acq: 28 Mar 2022 21:00



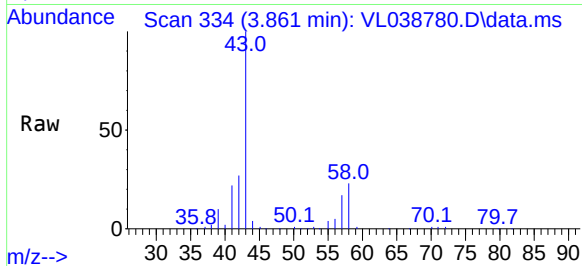
Tgt Ion: 45 Resp: 114200
 Ion Ratio Lower Upper
 45 100
 46 37.5 15.1 60.5





#15
Acetone
Concen: 2.006 ppbv
RT: 3.861 min Scan# 311
Delta R.T. 0.019 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

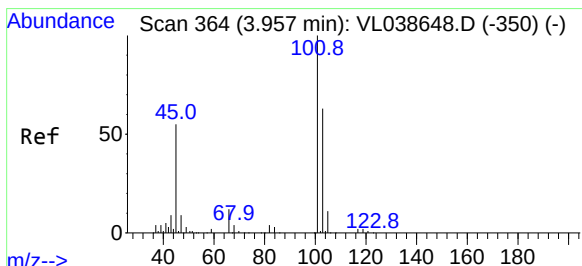
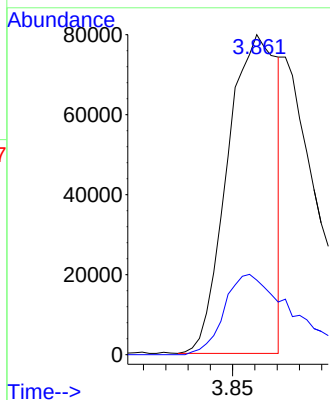
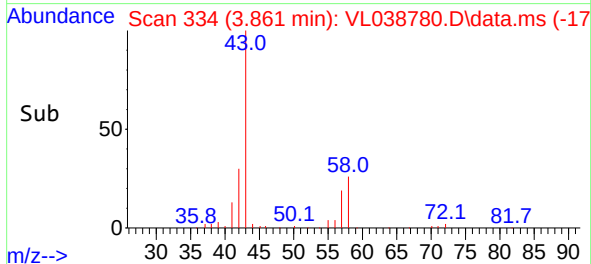
Instrument :
MSVOA_L
ClientSampleId :
V-6



Tgt Ion: 43 Resp: 12273
Ion Ratio Lower Upper
43 100
58 40.1 23.3 34.9

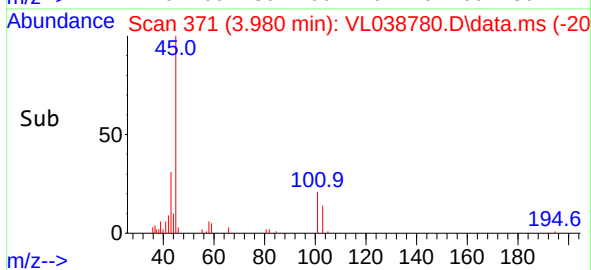
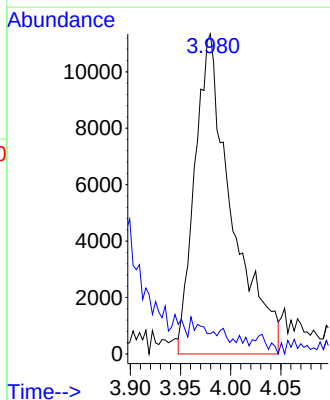
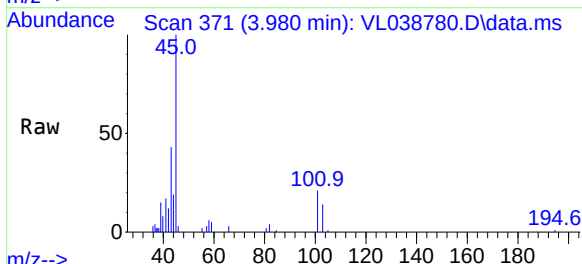
Manual Integrations
APPROVED

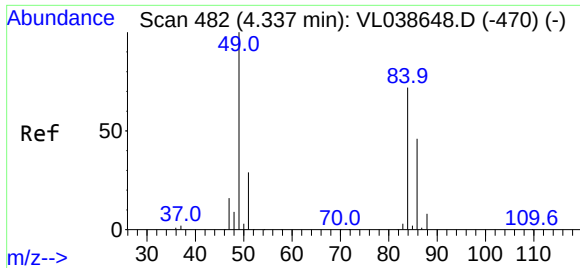
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#19
Isopropyl Alcohol
Concen: 0.851 ppbv m
RT: 3.980 min Scan# 371
Delta R.T. 0.023 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

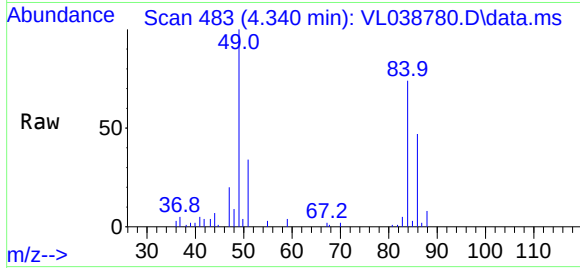
Tgt Ion: 45 Resp: 28858
Ion Ratio Lower Upper
45 100
58 6.0 2.3 3.5





#20
Methylene Chloride
Concen: 1.170 ppbv
RT: 4.340 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

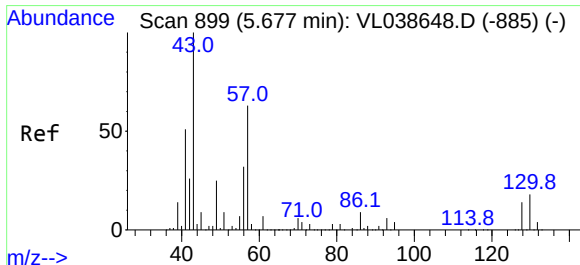
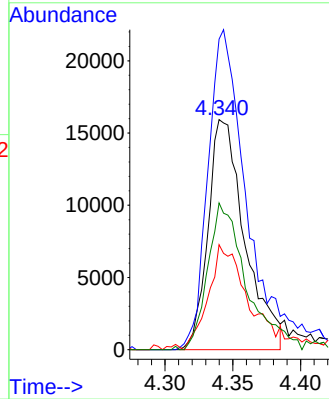
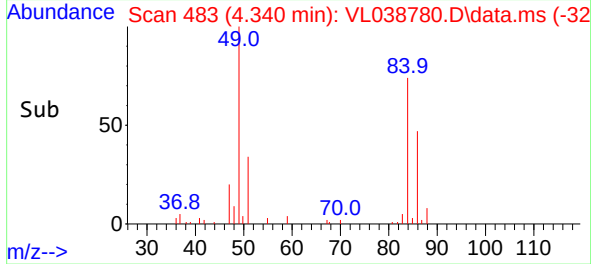
Instrument :
MSVOA_L
ClientSampleId :
V-6



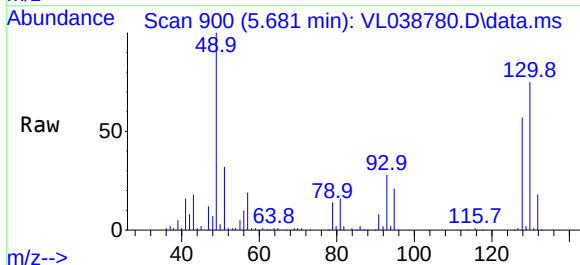
Tgt Ion: 84 Resp: 3015
Ion Ratio Lower Upper
84 100
49 139.0 111.2 166.8
51 44.6 32.8 49.2
86 63.8 51.4 77.0

Manual Integrations
APPROVED

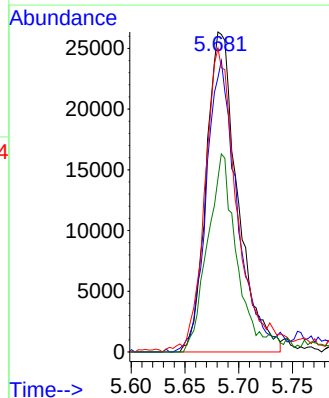
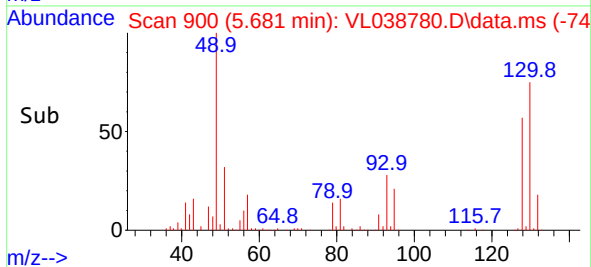
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

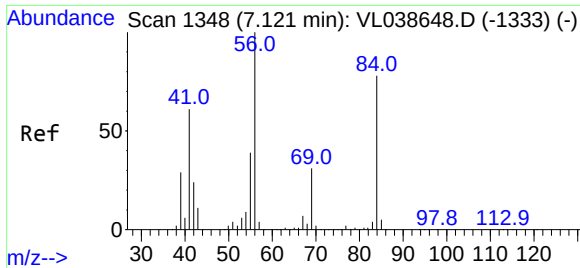


#26
Hexane
Concen: 0.775 ppbv
RT: 5.681 min Scan# 900
Delta R.T. 0.003 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00



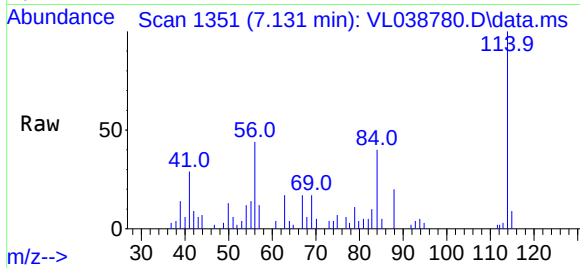
Tgt Ion: 57 Resp: 53395
Ion Ratio Lower Upper
57 100
41 96.4 67.0 100.4
43 100.1 184.2 276.2#
56 59.4 42.6 64.0





#30
Cyclohexane
Concen: 0.122 ppbv m
RT: 7.131 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

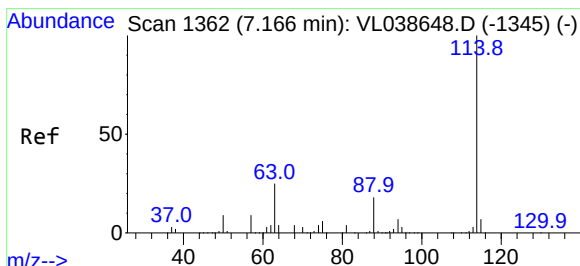
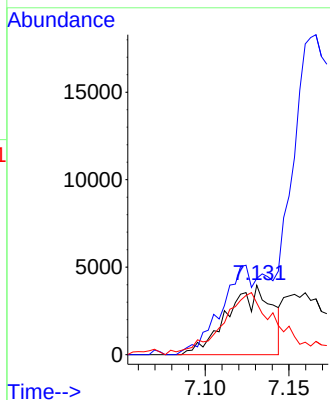
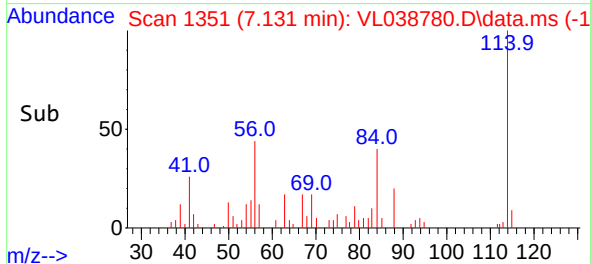
Instrument :
MSVOA_L
ClientSampleId :
V-6



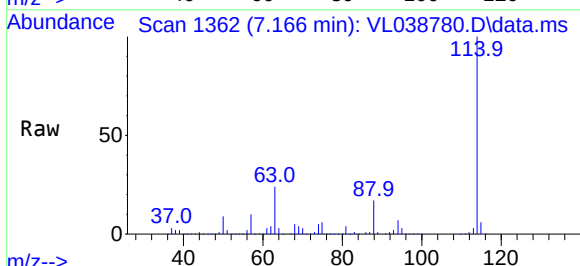
Tgt Ion: 84 Resp: 7304
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4
41 118.3 61.8 92.6

Manual Integrations
APPROVED

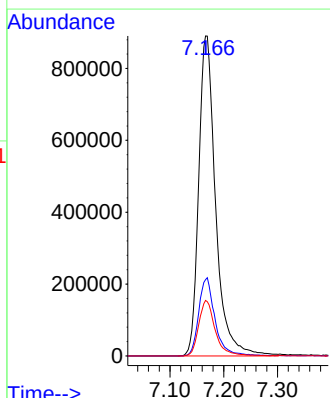
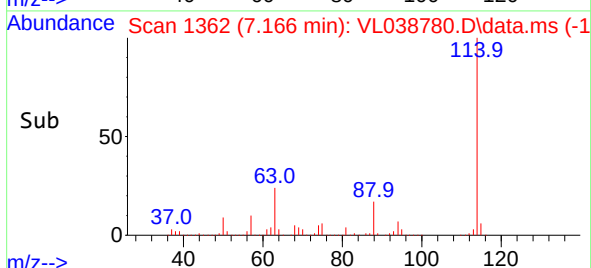
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

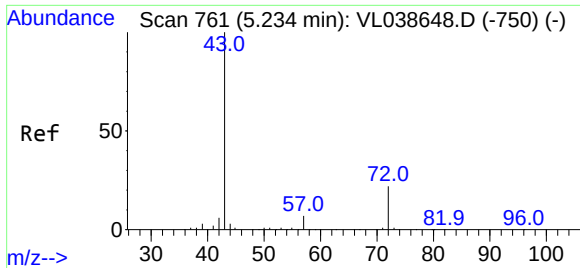


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.166 min Scan# 1362
Delta R.T. 0.000 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00



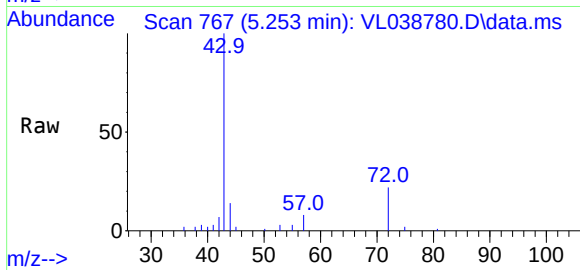
Tgt Ion:114 Resp: 1951131
Ion Ratio Lower Upper
114 100
63 23.8 19.4 29.0
88 17.1 13.9 20.9





#34
2-Butanone
Concen: 0.309 ppbv
RT: 5.253 min Scan# 70
Delta R.T. 0.019 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

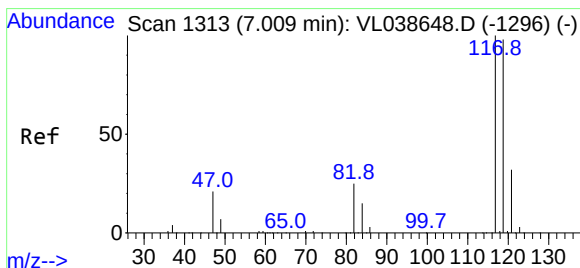
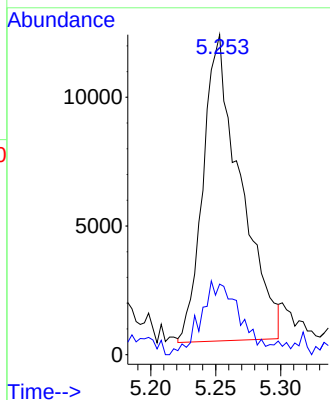
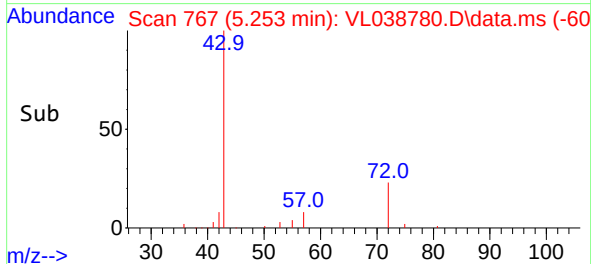
Instrument :
MSVOA_L
ClientSampleId :
V-6



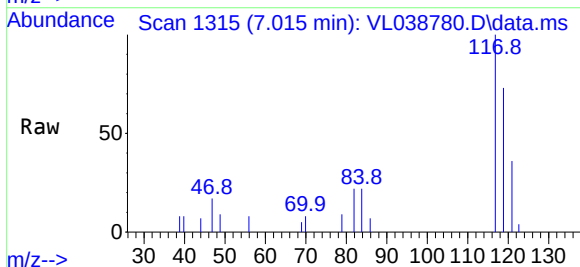
Tgt Ion: 43 Resp: 2382
Ion Ratio Lower Upper
43 100
72 29.5 17.8 26.8

Manual Integrations
APPROVED

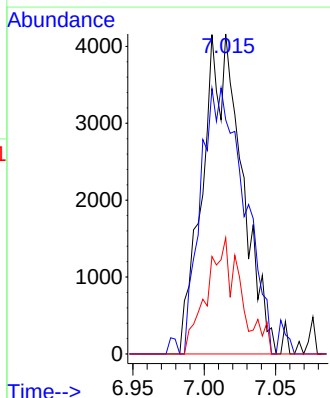
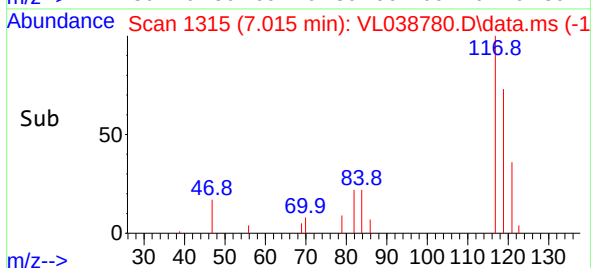
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022

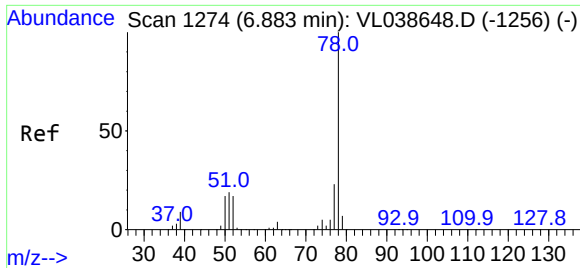


#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 7.015 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00



Tgt Ion:117 Resp: 7987
Ion Ratio Lower Upper
117 100
119 73.2 78.1 117.1#
121 36.3 25.8 38.6





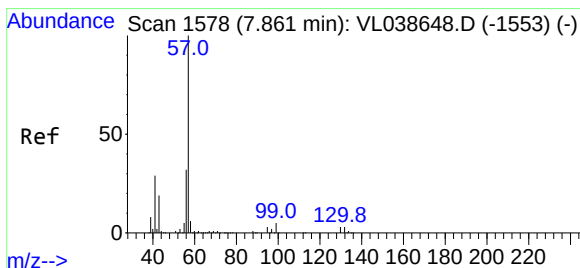
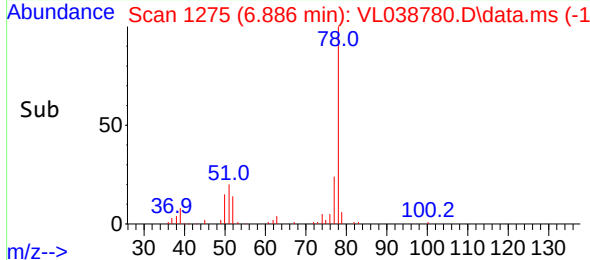
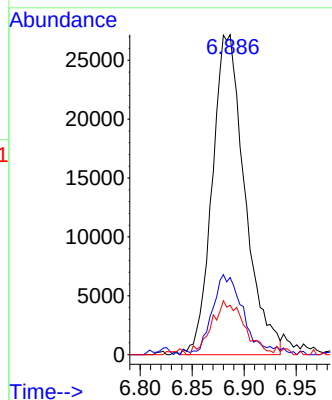
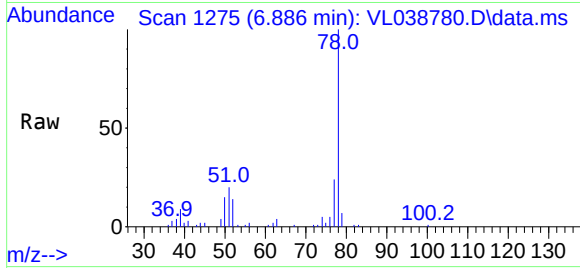
#36
Benzene
Concen: 0.393 ppbv
RT: 6.886 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

Instrument :
MSVOA_L
ClientSampleId :
V-6

Tgt Ion: 78 Resp: 59220
Ion Ratio Lower Upper
78 100
77 24.1 18.1 27.1
50 14.5 13.6 20.4

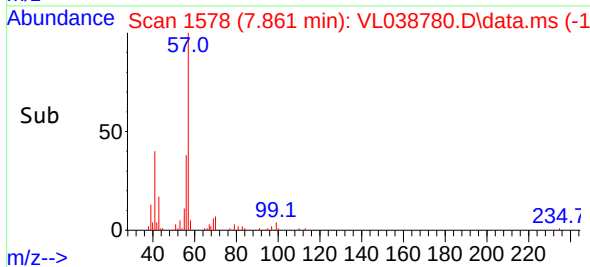
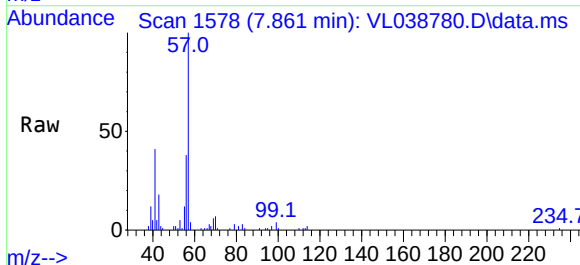
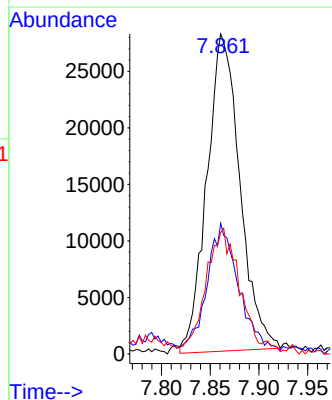
Manual Integrations
APPROVED

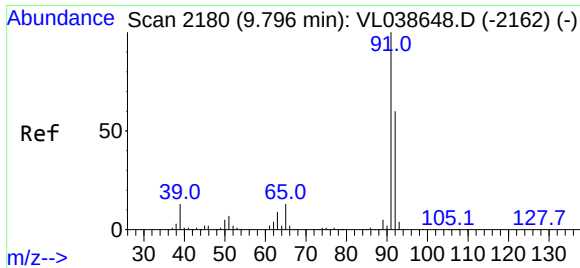
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#44
2,2,4-Trimethylpentane
Concen: 0.261 ppbv
RT: 7.861 min Scan# 1578
Delta R.T. 0.000 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

Tgt Ion: 57 Resp: 66114
Ion Ratio Lower Upper
57 100
41 43.1 23.0 34.4#
56 43.1 25.3 37.9#





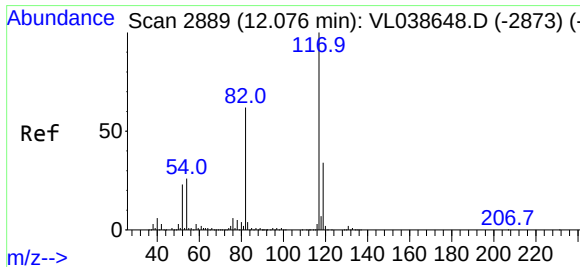
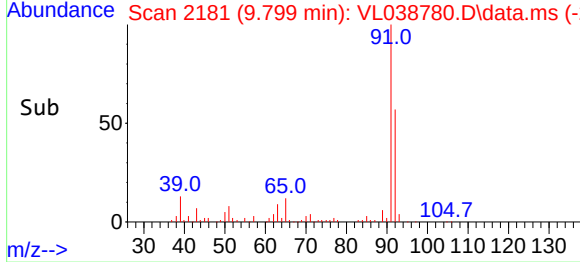
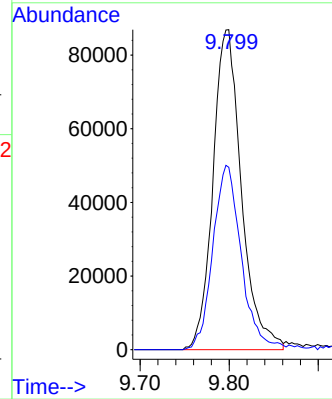
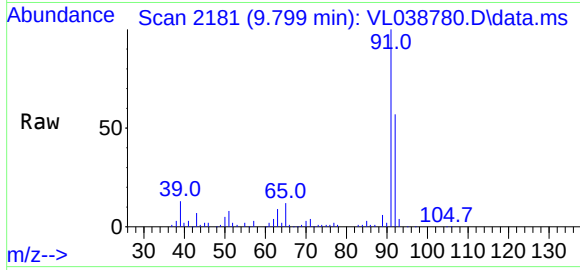
#53
Toluene
Concen: 1.194 ppbv
RT: 9.799 min Scan# 2180
Delta R.T. 0.003 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

Instrument :
MSVOA_L
ClientSampleId :
V-6

Tgt Ion: 91 Resp: 193234
Ion Ratio Lower Upper
91 100
92 57.9 48.7 73.1

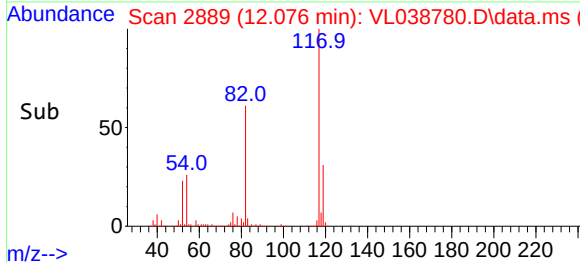
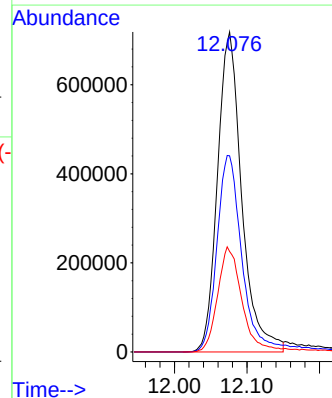
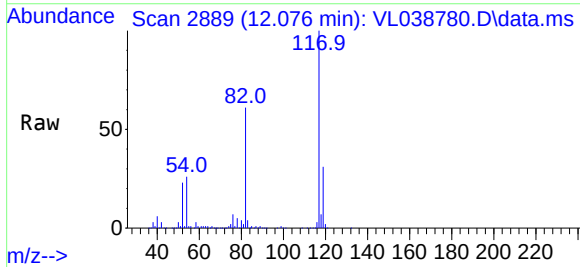
Manual Integrations
APPROVED

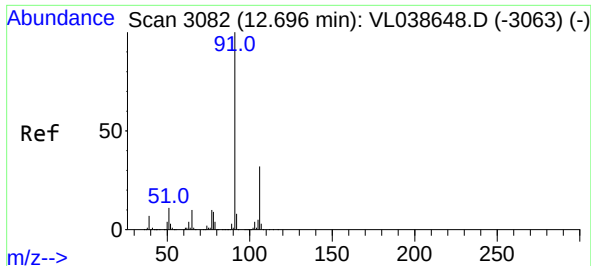
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.076 min Scan# 2889
Delta R.T. 0.000 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

Tgt Ion:117 Resp: 1673344
Ion Ratio Lower Upper
117 100
82 66.7 51.6 77.4
119 34.3 26.9 40.3





#58

Ethyl Benzene

Concen: 0.148 ppbv m

RT: 12.693 min Scan# 3082

Delta R.T. -0.003 min

Lab File: VL038780.D

Acq: 28 Mar 2022 21:00

Instrument :

MSVOA_L

ClientSampleId :

V-6

Tgt Ion: 91 Resp: 2886

Ion Ratio Lower Upper

91 100

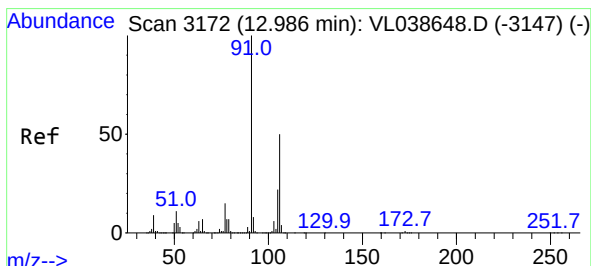
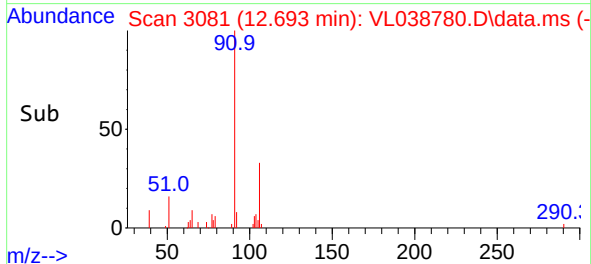
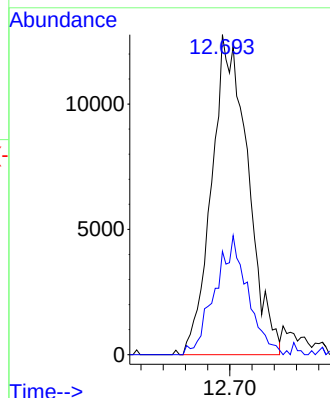
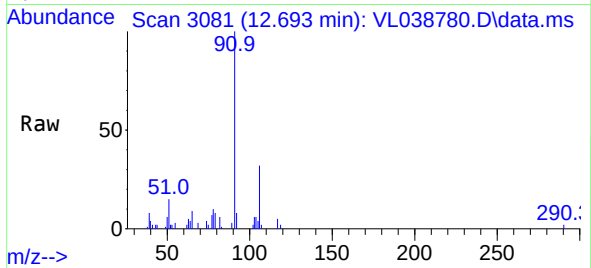
106 32.3 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/29/2022

Supervised By :Mahesh Dadoda 03/29/2022



#59

m/p-Xylene

Concen: 0.543 ppbv m

RT: 12.954 min Scan# 3162

Delta R.T. -0.032 min

Lab File: VL038780.D

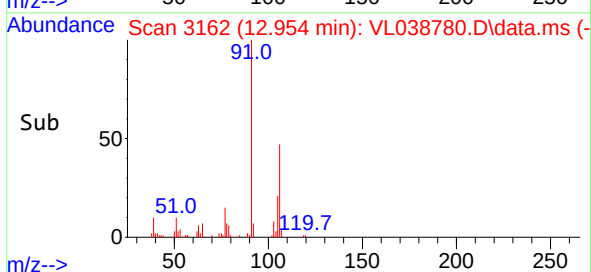
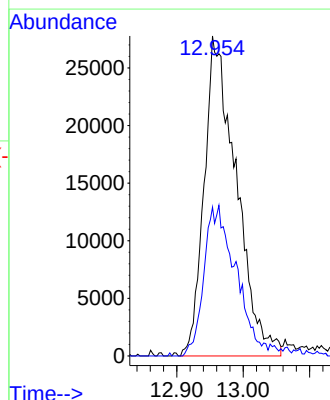
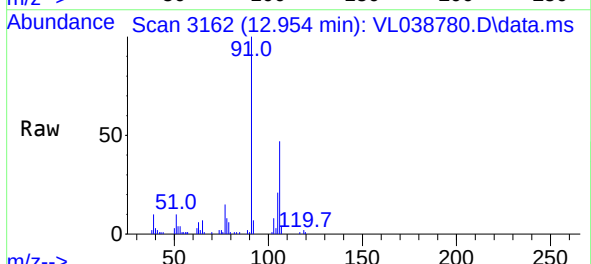
Acq: 28 Mar 2022 21:00

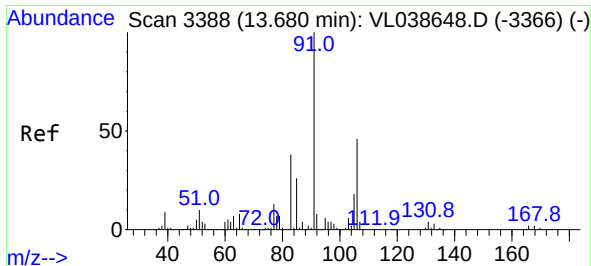
Tgt Ion: 91 Resp: 92988

Ion Ratio Lower Upper

91 100

106 46.7 37.2 55.8





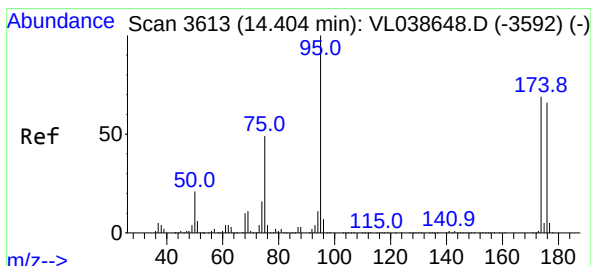
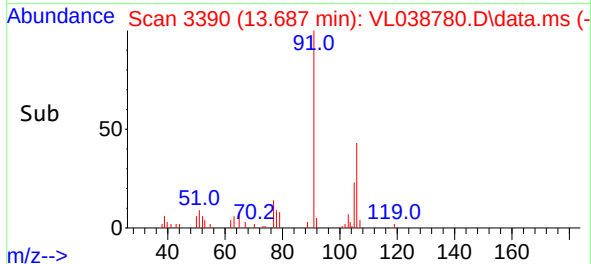
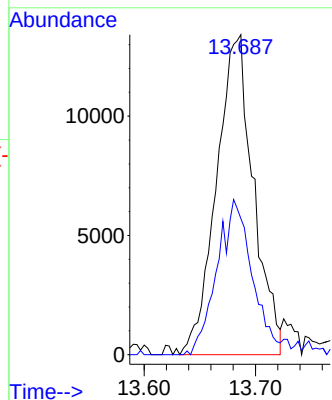
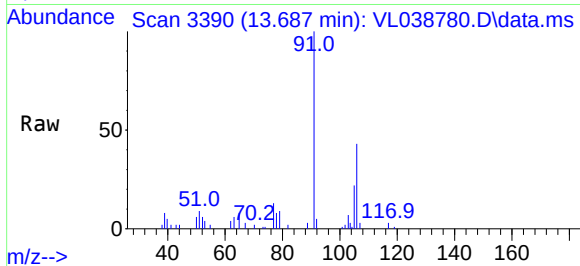
#60
o-Xylene
Concen: 0.191 ppbv
RT: 13.687 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

Instrument :
MSVOA_L
ClientSampleId :
V-6

Tgt Ion: 91 Resp: 3096
Ion Ratio Lower Upper
91 100
106 47.5 23.5 70.5

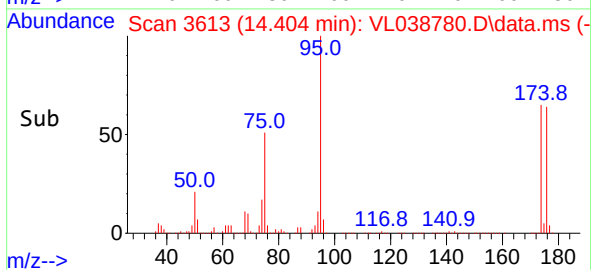
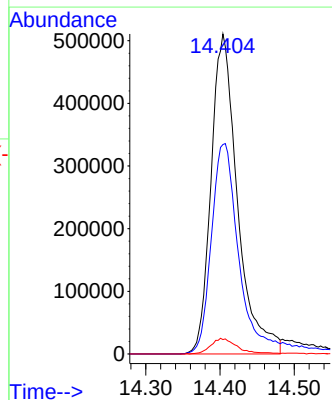
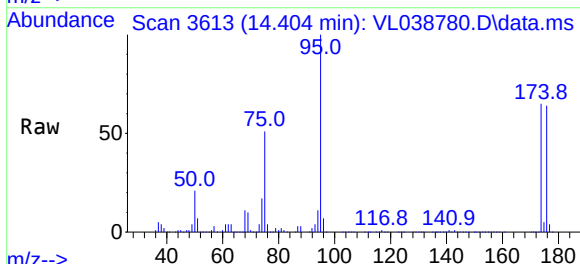
Manual Integrations
APPROVED

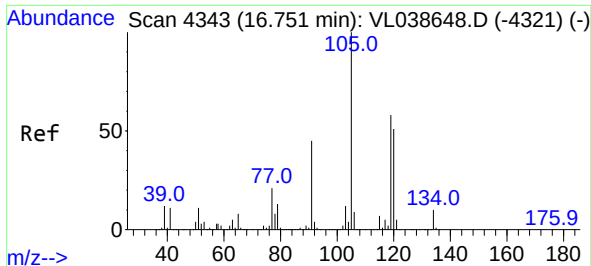
Reviewed By :Semsettin Yesilyurt 03/29/2022
Supervised By :Mahesh Dadoda 03/29/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.861 ppbv
RT: 14.404 min Scan# 3613
Delta R.T. 0.000 min
Lab File: VL038780.D
Acq: 28 Mar 2022 21:00

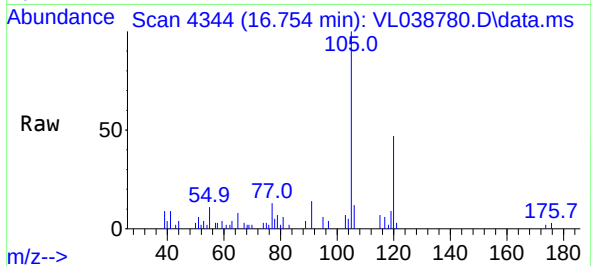
Tgt Ion: 95 Resp: 1265086
Ion Ratio Lower Upper
95 100
174 72.7 56.1 84.1
175 4.9 4.2 6.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.137 ppbv m
 RT: 16.754 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL038780.D
 Acq: 28 Mar 2022 21:00

Instrument :
 MSVOA_L
 ClientSampleId :
 V-6



Tgt Ion:105 Resp: 2598

Ion	Ratio	Lower	Upper
105	100		
120	46.7	40.5	60.7
91	13.6	35.9	53.9
77	13.1	16.6	25.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/29/2022
 Supervised By :Mahesh Dadoda 03/29/2022

