

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022322\
 Data File : VL038419.D
 Acq On : 23 Feb 2022 22:29
 Operator : SY/AP
 Sample : N1605-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/24/2022
 Supervised By : Mahesh Dadoda 02/25/2022

Quant Time: Feb 24 07:32:21 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022

QLast Update : Tue Feb 22 19:45:51 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.645	49	792383	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.153	114	1945227	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.057	117	1652306	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.388 95 1283333 9.387 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.900%

Target Compounds

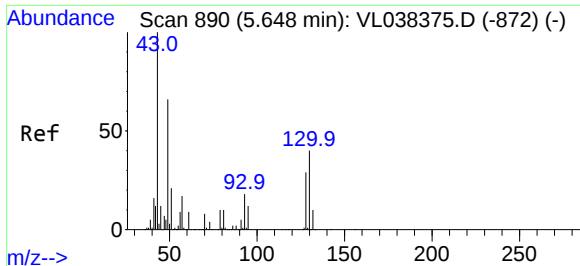
					Qvalue	
2) Dichlorodifluoromethane	3.034	85	32231m	0.257	ppbv	
3) Chlorodifluoromethane	2.980	51	43080	0.308	ppbv #	87
4) Chloromethane	3.137	50	27555	0.567	ppbv	100
9) Propene	3.009	41	88617	1.918	ppbv #	70
10) Heptane	8.095	43	94725	0.842	ppbv	96
11) Trichlorofluoromethane	3.938	101	25531m	0.212	ppbv	
13) Ethanol	3.594	45	3384007	733.975	ppbv	87
15) Acetone	3.838	43	292675	4.343	ppbv #	55
17) tert-Butyl alcohol	4.298	59	17803m	0.265	ppbv	
19) Isopropyl Alcohol	3.957	45	6938708	177.822	ppbv #	96
20) Methylene Chloride	4.330	84	32991	0.988	ppbv	95
26) Hexane	5.668	57	560025	6.831	ppbv #	45
29) Chloroform	5.738	83	29949m	0.224	ppbv	
30) Cyclohexane	7.105	84	12934m	0.193	ppbv	
34) 2-Butanone	5.227	43	93270	1.525	ppbv	98
35) Carbon Tetrachloride	6.996	117	8611m	0.063	ppbv	
36) Benzene	6.870	78	135258	0.790	ppbv	97
44) 2,2,4-Trimethylpentane	7.848	57	87772	0.298	ppbv #	85
50) 4-Methyl-2-Pentanone	8.719	43	12932m	0.120	ppbv	
53) Toluene	9.780	91	1003484	5.397	ppbv	99
58) Ethyl Benzene	12.684	91	34498	0.153	ppbv	92
59) m/p-Xylene	12.938	91	81739m	0.421	ppbv	
60) o-Xylene	13.664	91	31585m	0.172	ppbv	
74) 1,2,4-Trimethylbenzene	16.732	105	34054m	0.176	ppbv	

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

Manual Integrations

Quant Time: Feb 24 07:32:21 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Feb
QLast Update : Tue Feb 22 19:45:51 2022
Response via : Initial Calibration





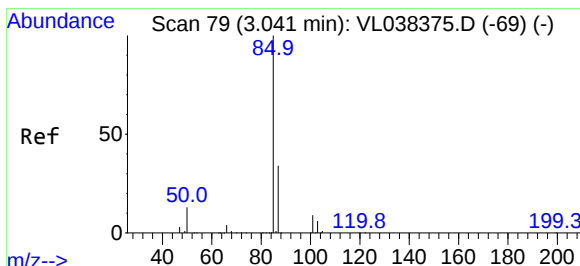
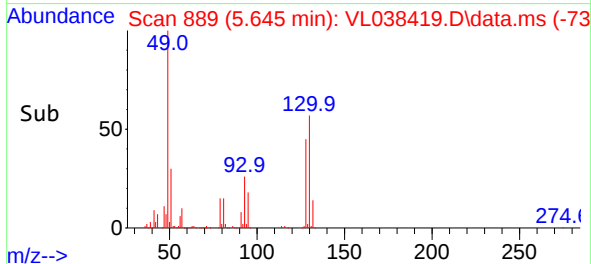
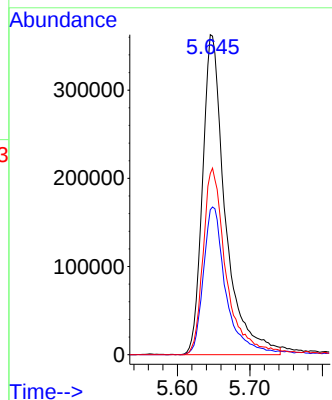
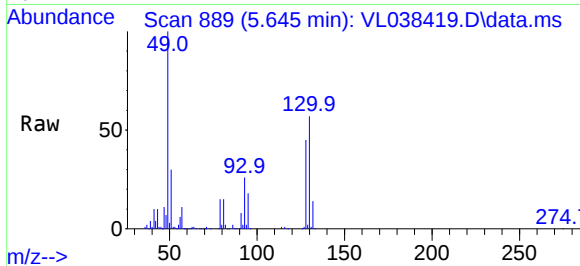
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.645 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 49 Resp: 79238
Ion Ratio Lower Upper
49 100
128 46.6 24.3 72.9
130 60.8 30.1 90.5

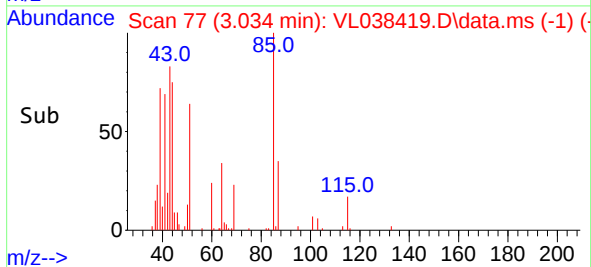
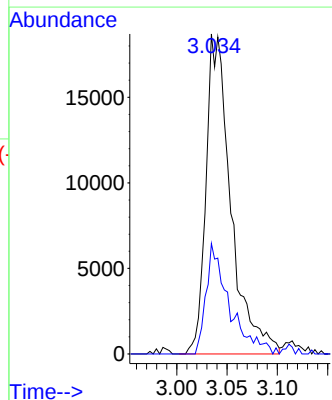
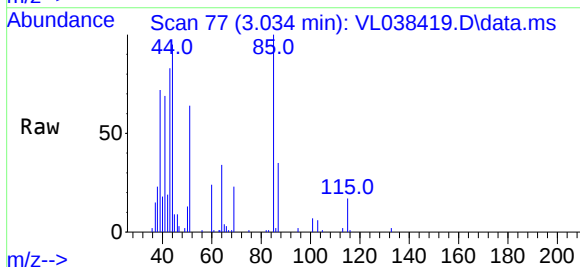
Manual Integrations
APPROVED

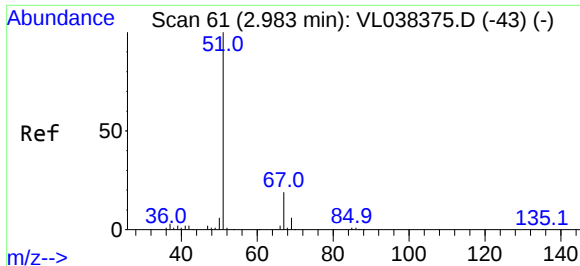
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#2
Dichlorodifluoromethane
Concen: 0.257 ppbv m
RT: 3.034 min Scan# 77
Delta R.T. -0.006 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

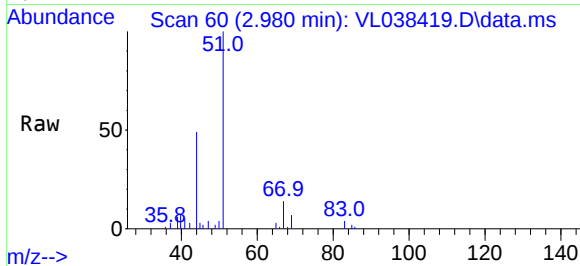
Tgt Ion: 85 Resp: 32231
Ion Ratio Lower Upper
85 100
87 34.5 27.4 41.0





#3
Chlorodifluoromethane
Concen: 0.308 ppbv
RT: 2.980 min Scan# 60
Delta R.T. -0.003 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

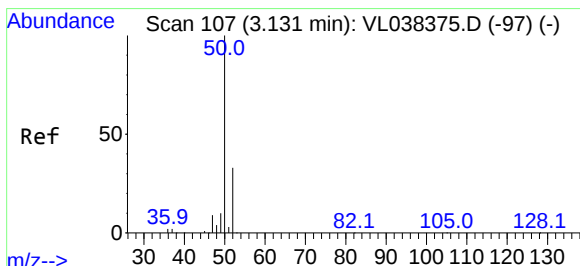
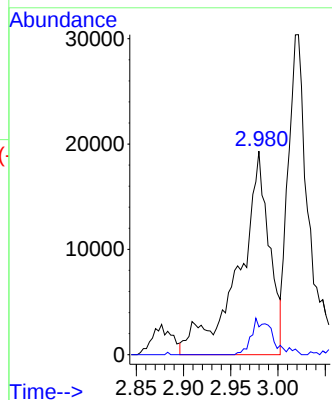
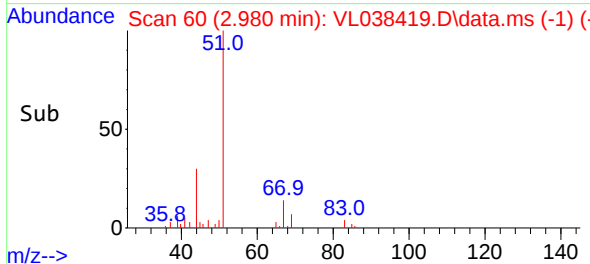
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion: 51 Resp: 43080
Ion Ratio Lower Upper
51 100
67 12.4 14.7 22.1

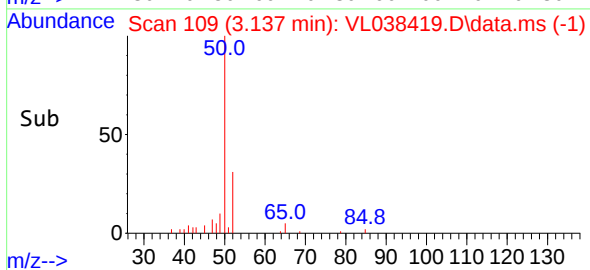
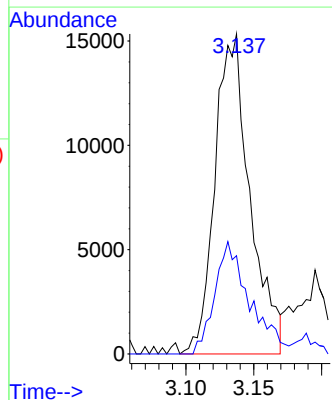
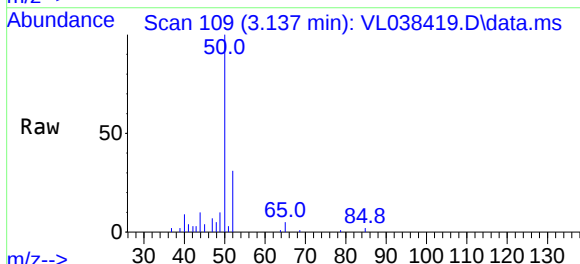
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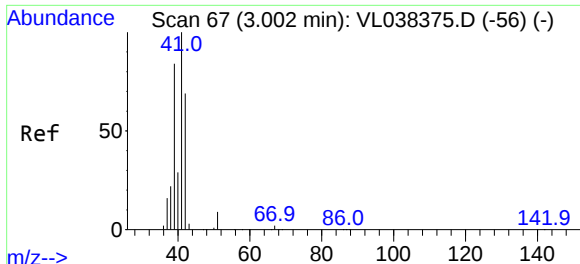
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#4
Chloromethane
Concen: 0.567 ppbv
RT: 3.137 min Scan# 109
Delta R.T. 0.007 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

Tgt Ion: 50 Resp: 27555
Ion Ratio Lower Upper
50 100
52 32.8 26.5 39.7





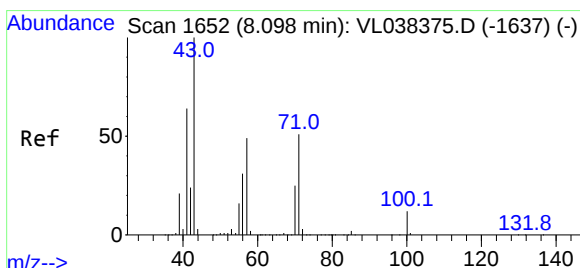
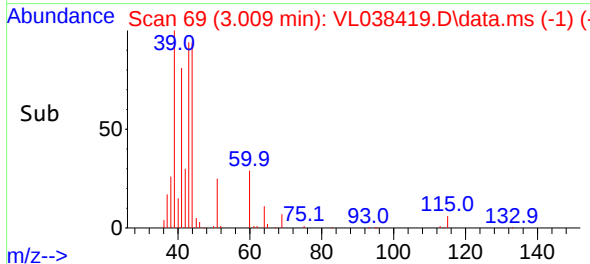
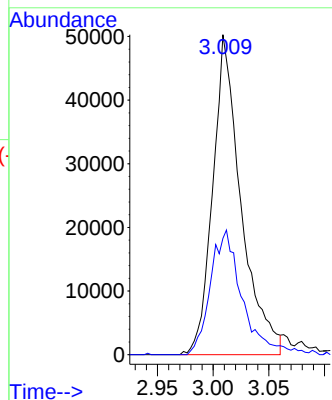
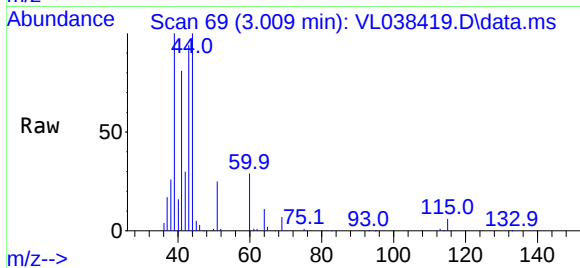
#9
Propene
Concen: 1.918 ppbv
RT: 3.009 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tgt Ion: 41 Resp: 8861
Ion Ratio Lower Upper
41 100
42 44.4 54.6 82.0

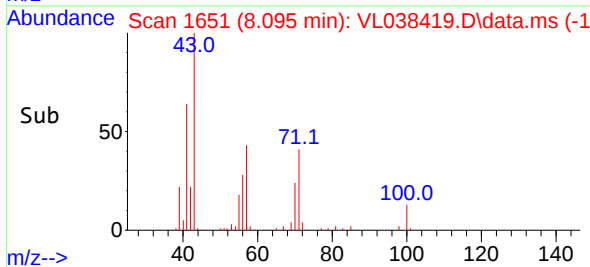
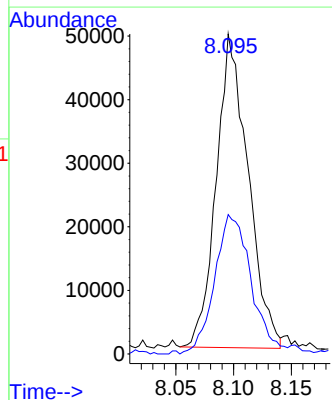
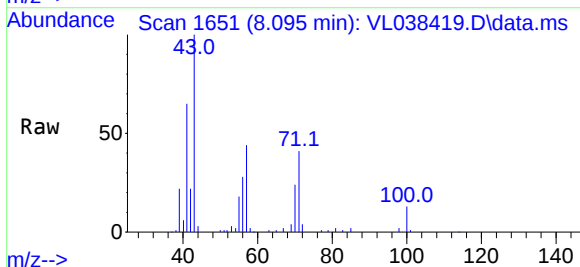
Manual Integrations
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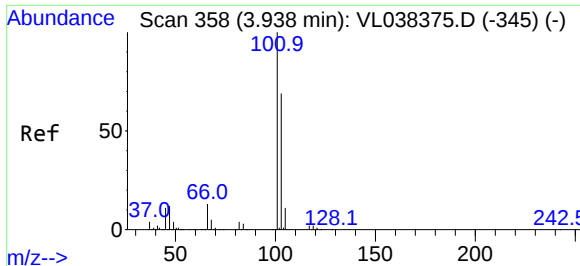
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#10
Heptane
Concen: 0.842 ppbv
RT: 8.095 min Scan# 1651
Delta R.T. -0.003 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

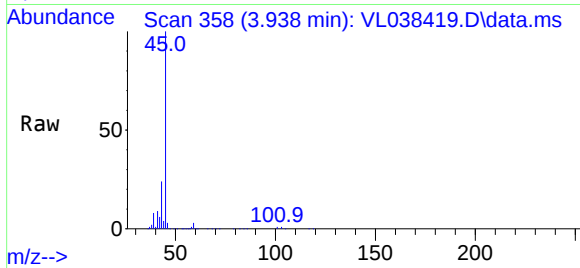
Tgt Ion: 43 Resp: 94725
Ion Ratio Lower Upper
43 100
57 52.7 39.8 59.8





#11
Trichlorofluoromethane
Concen: 0.212 ppbv m
RT: 3.938 min Scan# 30
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

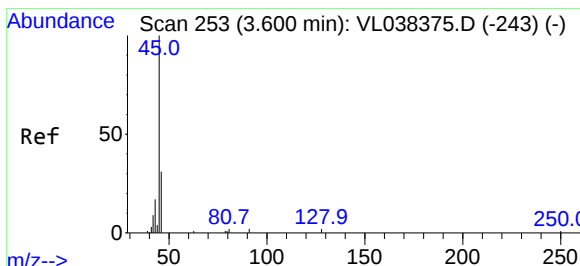
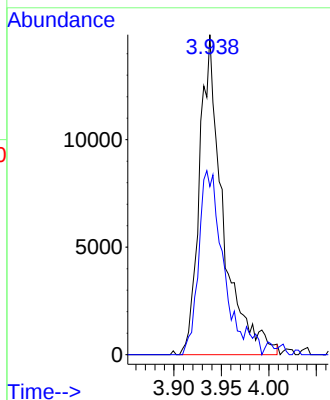
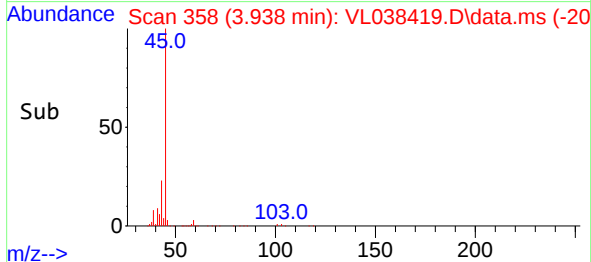
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion:101 Resp: 2553
Ion Ratio Lower Upper
101 100
103 52.6 55.0 82.4

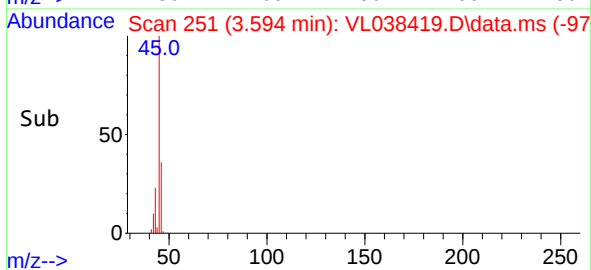
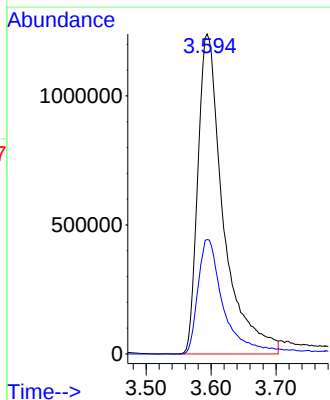
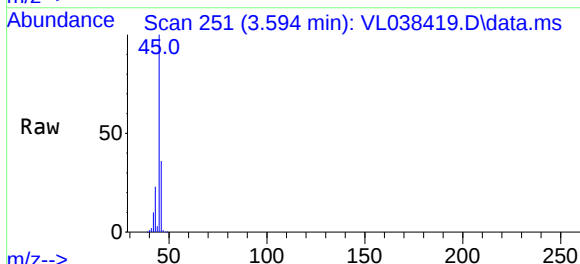
Manual Integrations
APPROVED

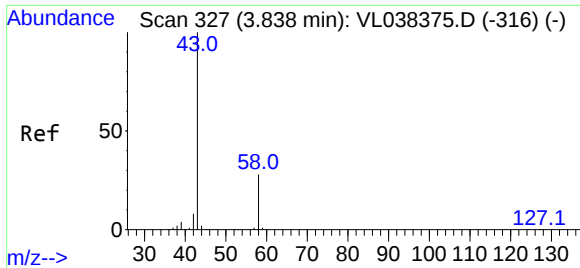
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#13
Ethanol
Concen: 733.975 ppbv
RT: 3.594 min Scan# 251
Delta R.T. -0.006 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

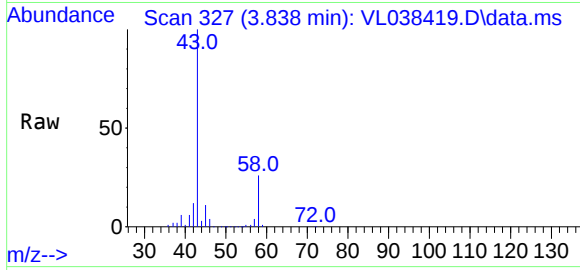
Tgt Ion: 45 Resp: 3384007
Ion Ratio Lower Upper
45 100
46 37.2 18.2 72.8





#15
Acetone
Concen: 4.343 ppbv
RT: 3.838 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

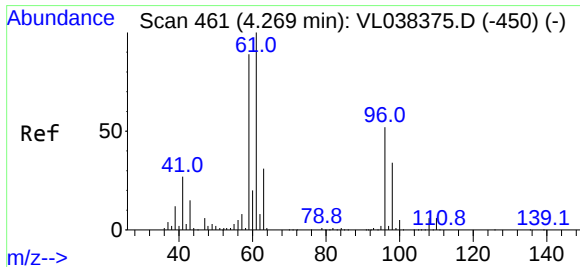
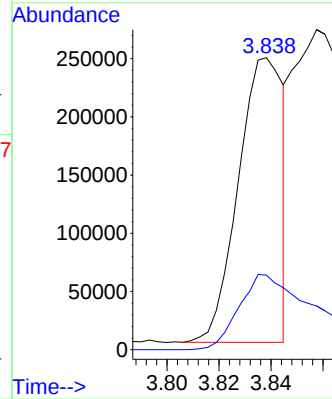
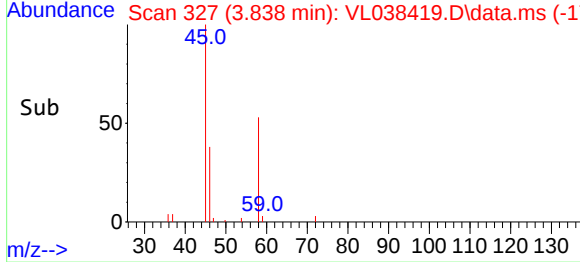
Instrument :
MSVOA_L
ClientSampleId :
IA-3



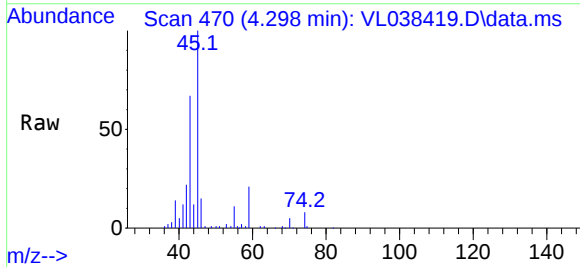
Tgt Ion: 43 Resp: 292679
Ion Ratio Lower Upper
43 100
58 50.5 21.7 32.5

Manual Integrations
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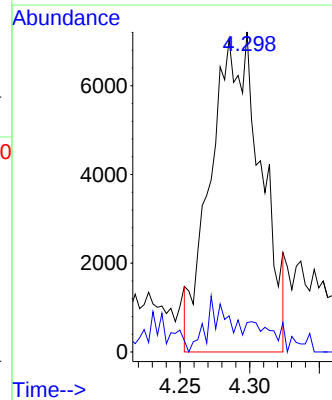
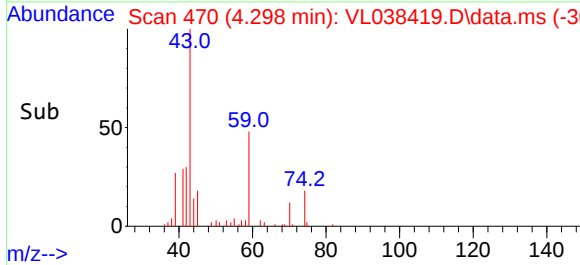
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022

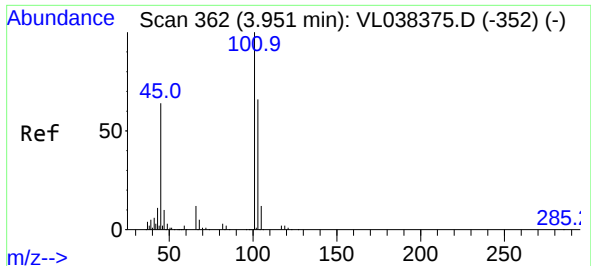


#17
tert-Butyl alcohol
Concen: 0.265 ppbv m
RT: 4.298 min Scan# 470
Delta R.T. 0.029 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29



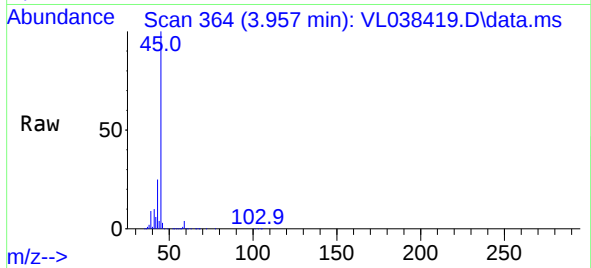
Tgt Ion: 59 Resp: 17803
Ion Ratio Lower Upper
59 100
57 155.9 8.4 12.6





#19
Isopropyl Alcohol
Concen: 177.822 ppbv
RT: 3.957 min Scan# 30
Delta R.T. 0.007 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

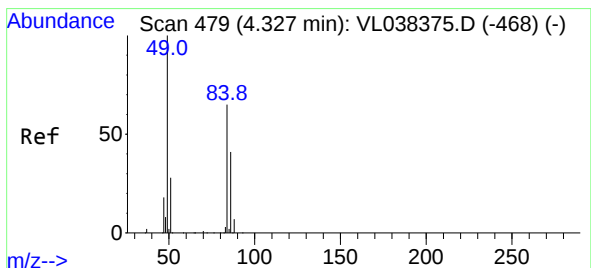
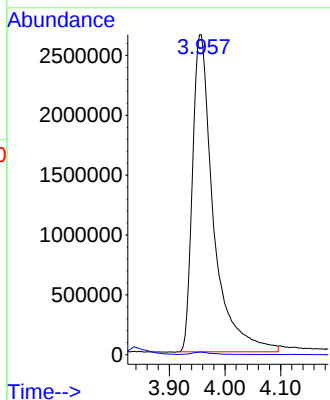
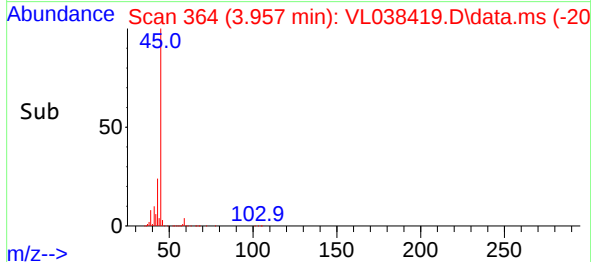
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion: 45 Resp: 6938708
Ion Ratio Lower Upper
45 100
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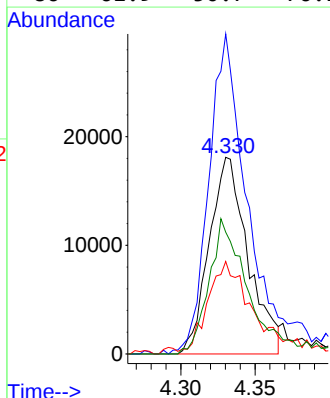
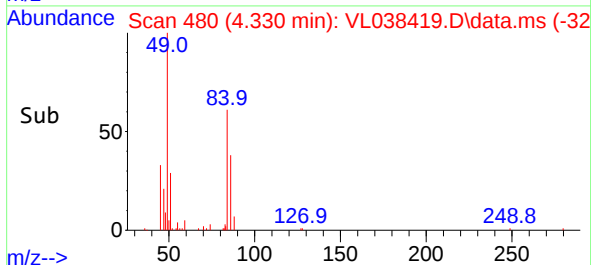
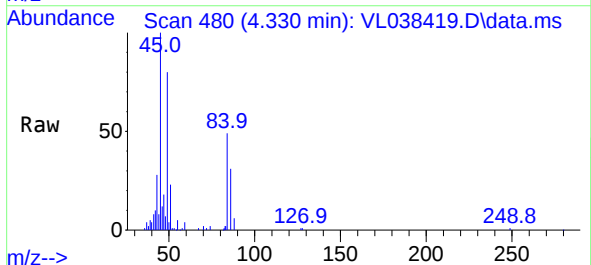
Manual Integrations
APPROVED

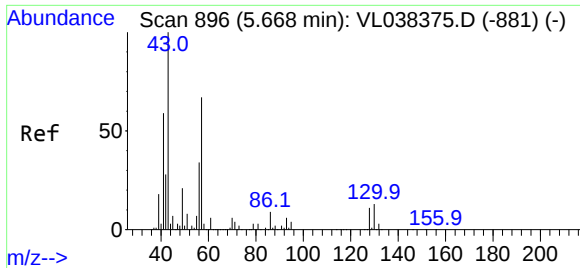
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#20
Methylene Chloride
Concen: 0.988 ppbv
RT: 4.330 min Scan# 480
Delta R.T. 0.003 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

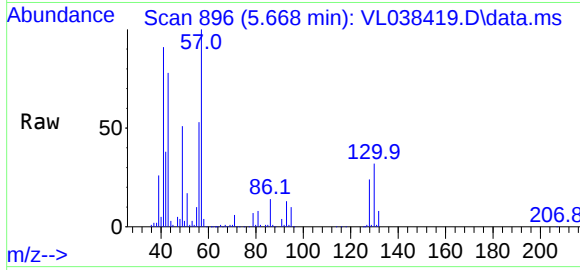
Tgt Ion: 84 Resp: 32991
Ion Ratio Lower Upper
84 100
49 160.7 122.4 183.6
51 45.7 33.3 49.9
86 61.9 50.7 76.1





#26
Hexane
Concen: 6.831 ppbv
RT: 5.668 min Scan# 896
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

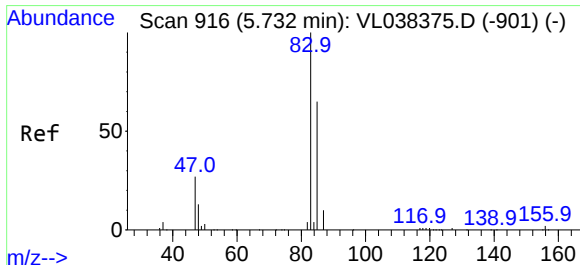
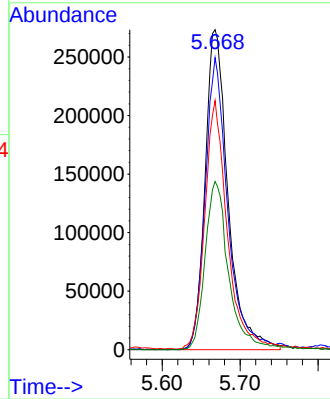
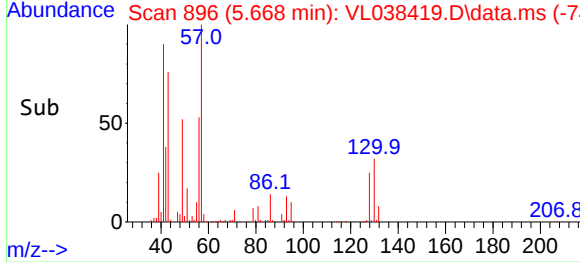
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion: 57 Resp: 560025
Ion Ratio Lower Upper
57 100
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43 78.4 181.0 271.4
56 54.5 43.4 65.0

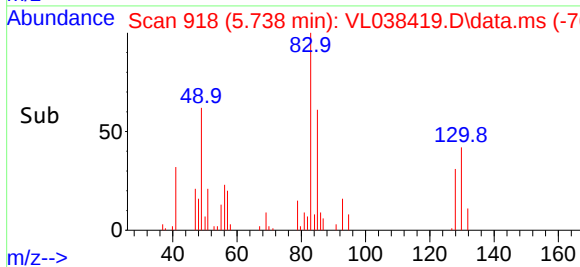
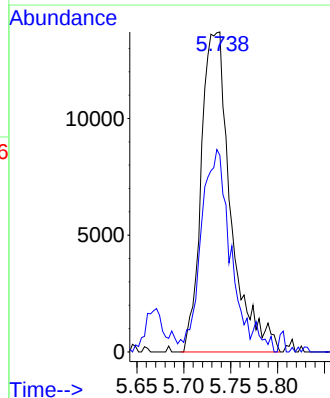
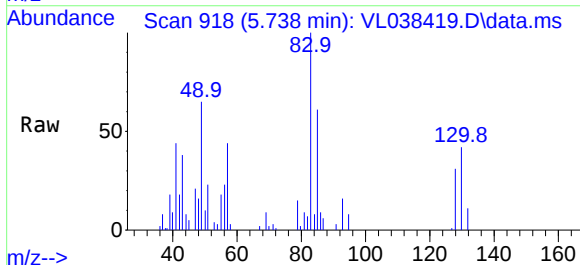
Manual Integrations
APPROVED

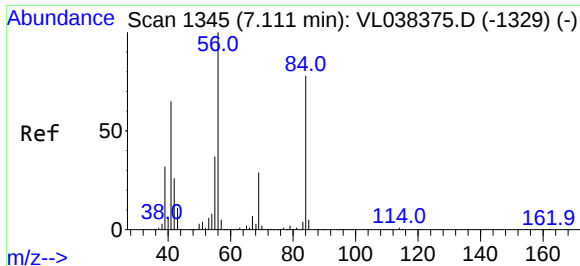
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#29
Chloroform
Concen: 0.224 ppbv m
RT: 5.738 min Scan# 918
Delta R.T. 0.007 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

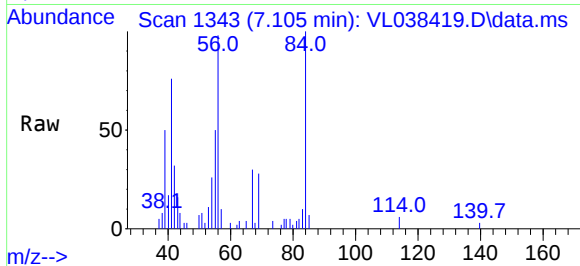
Tgt Ion: 83 Resp: 29949
Ion Ratio Lower Upper
83 100
85 61.5 51.6 77.4





#30
Cyclohexane
Concen: 0.193 ppbv m
RT: 7.105 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

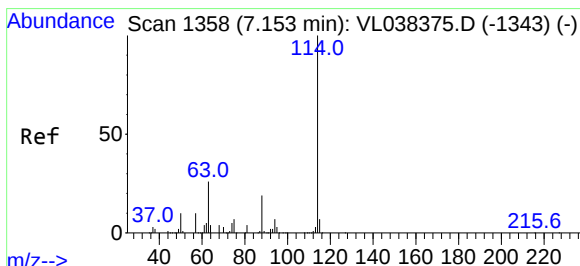
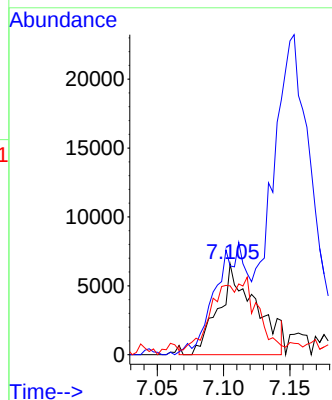
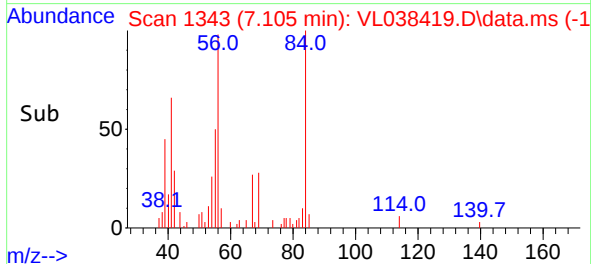
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion: 84 Resp: 12934
Ion Ratio Lower Upper
84 100
56 0.0 116.2 174.4
41 0.0 74.3 111.5

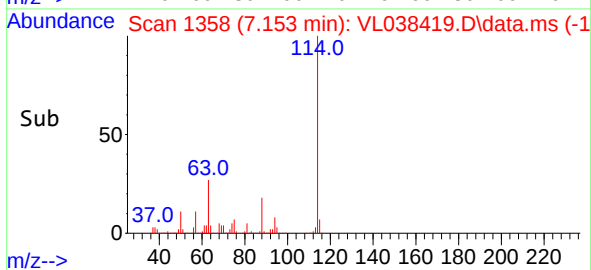
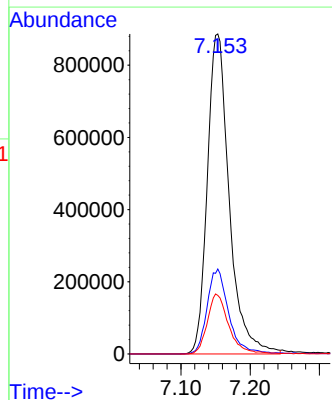
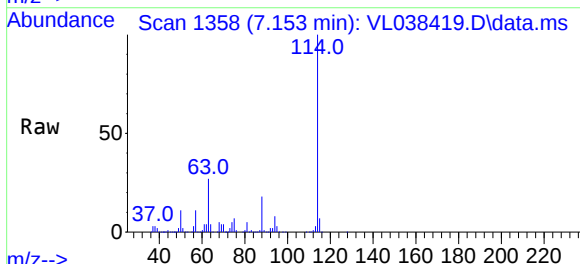
Manual Integrations
APPROVED

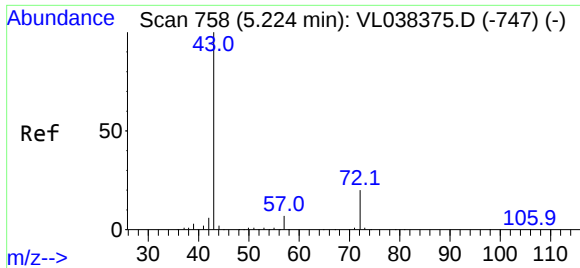
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.153 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

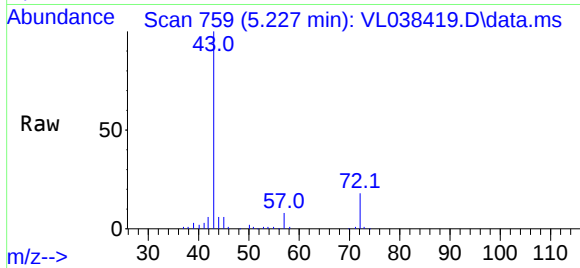
Tgt Ion:114 Resp: 1945227
Ion Ratio Lower Upper
114 100
63 26.6 22.2 33.2
88 18.5 15.2 22.8





#34
2-Butanone
Concen: 1.525 ppbv
RT: 5.227 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

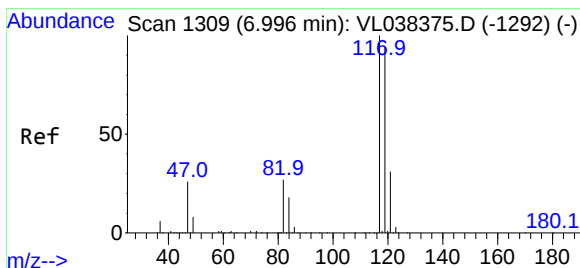
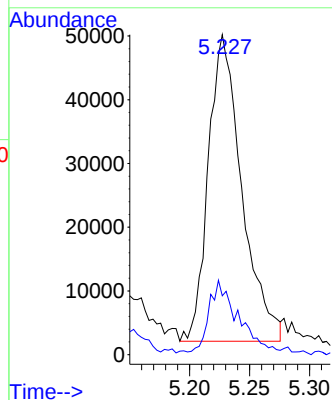
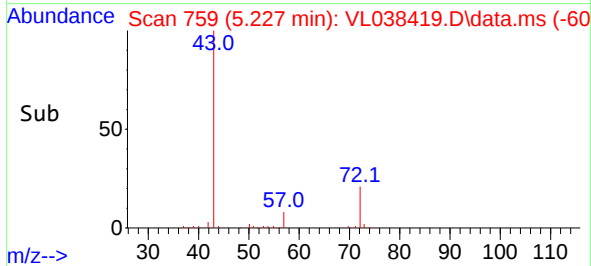
Instrument :
MSVOA_L
ClientSampleId :
IA-3



Tgt Ion: 43 Resp: 93270
Ion Ratio Lower Upper
43 100
72 22.8 17.4 26.2

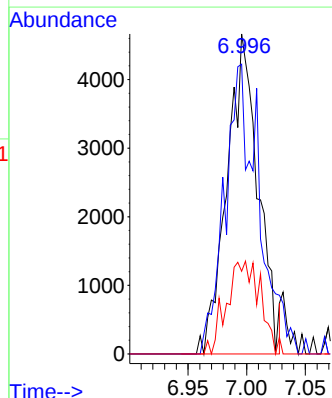
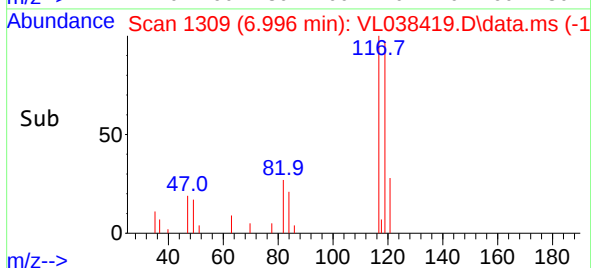
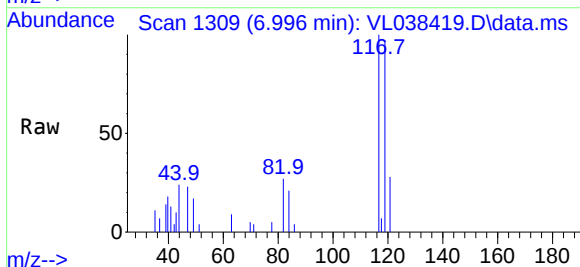
Manual Integrations
APPROVED

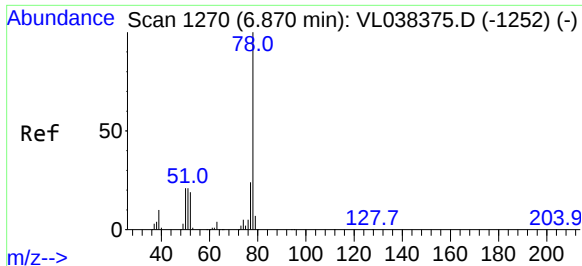
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 6.996 min Scan# 1309
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

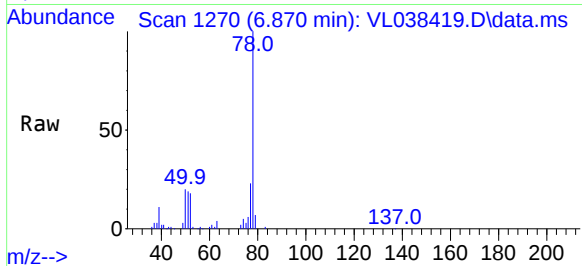
Tgt Ion:117 Resp: 8611
Ion Ratio Lower Upper
117 100
119 97.3 74.9 112.3
121 27.7 24.8 37.2





#36
Benzene
Concen: 0.790 ppbv
RT: 6.870 min Scan# 1270
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

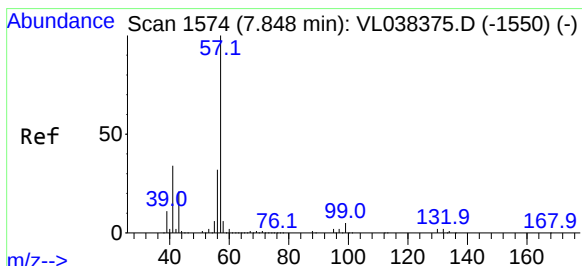
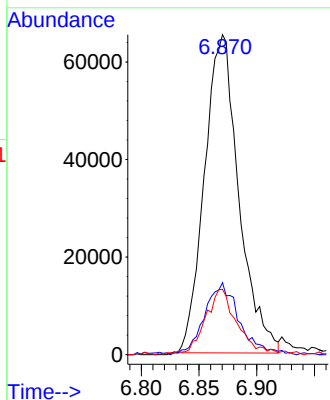
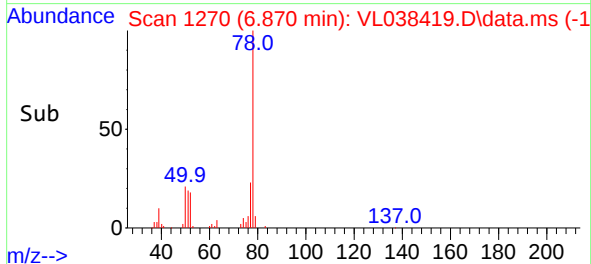
Instrument :
MSVOA_L
ClientSampleId :
IA-3



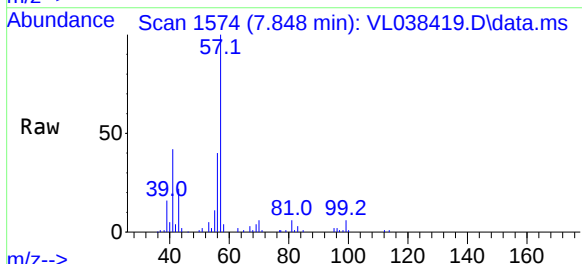
Tgt Ion: 78 Resp: 135258
Ion Ratio Lower Upper
78 100
77 21.6 19.0 28.6
50 19.9 16.6 24.8

Manual Integrations
APPROVED

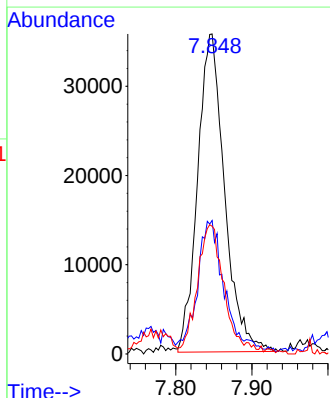
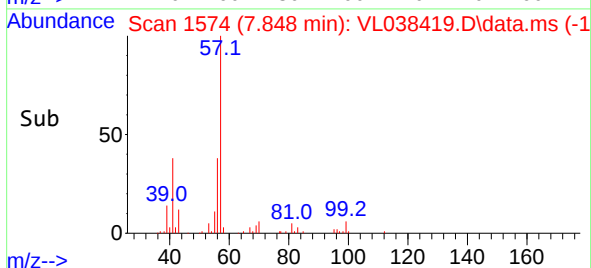
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022

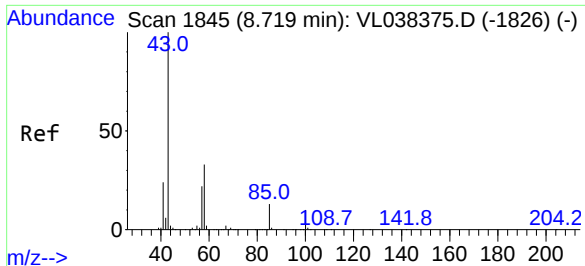


#44
2,2,4-Trimethylpentane
Concen: 0.298 ppbv
RT: 7.848 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29



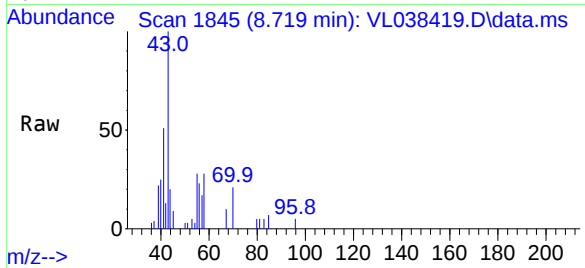
Tgt Ion: 57 Resp: 87772
Ion Ratio Lower Upper
57 100
41 41.4 26.6 39.8#
56 40.4 25.0 37.6#





#50
4-Methyl-2-Pentanone
Concen: 0.120 ppbv m
RT: 8.719 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

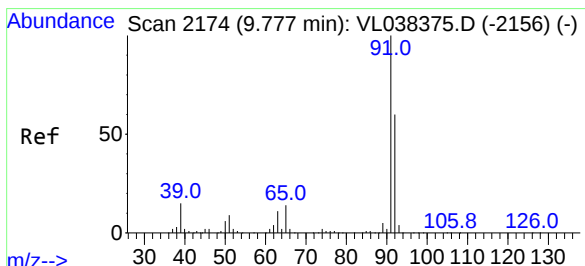
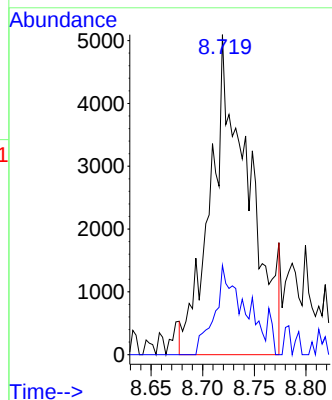
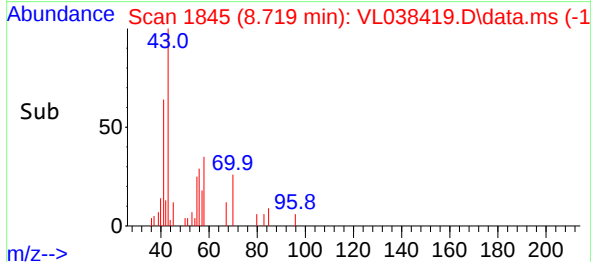
Instrument :
MSVOA_L
ClientSampleId :
IA-3



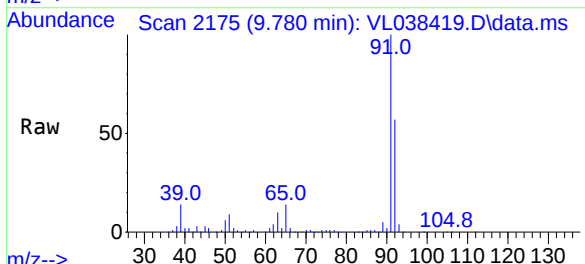
Tgt Ion: 43 Resp: 12932
Ion Ratio Lower Upper
43 100
58 24.7 27.7 41.5

Manual Integrations
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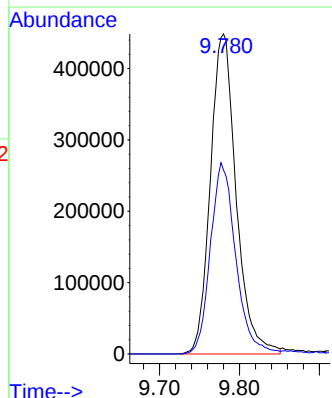
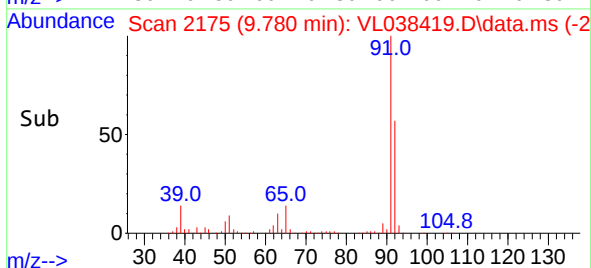
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022

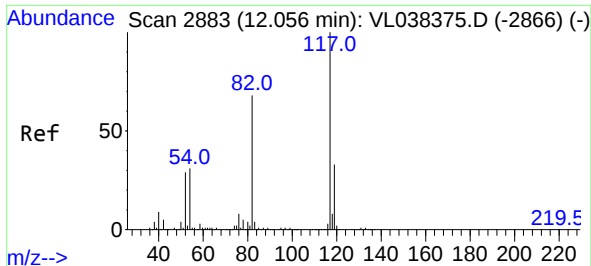


#53
Toluene
Concen: 5.397 ppbv
RT: 9.780 min Scan# 2175
Delta R.T. 0.003 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29



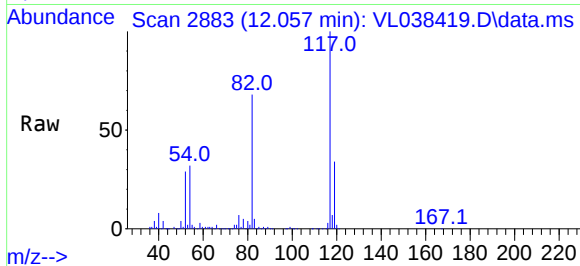
Tgt Ion: 91 Resp: 1003484
Ion Ratio Lower Upper
91 100
92 59.4 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.057 min Scan# 2883
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

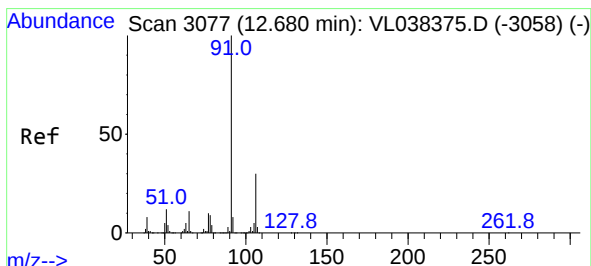
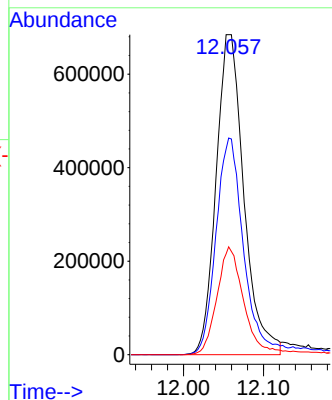
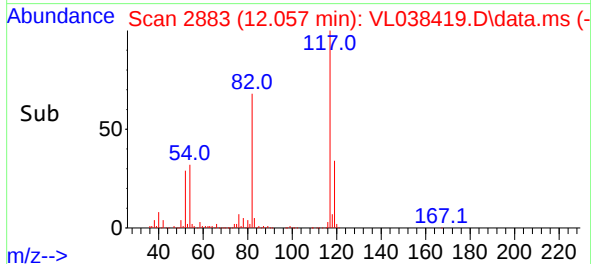
Instrument :
MSVOA_L
ClientSampleId :
IA-3



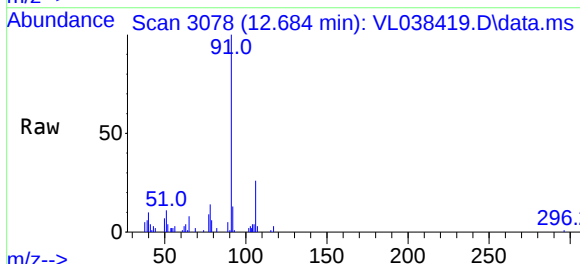
Tgt Ion: 117 Resp: 1652300
Ion Ratio Lower Upper
117 100
82 72.0 54.9 82.3
119 34.0 46.1 69.1

Manual Integrations
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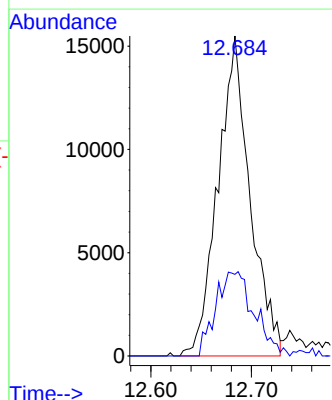
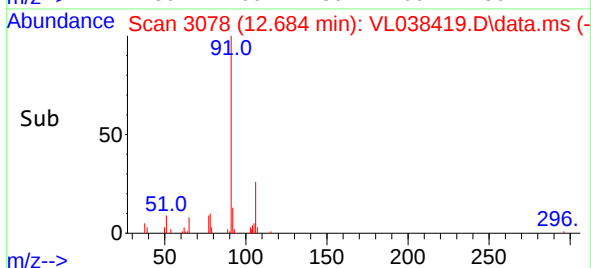
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022

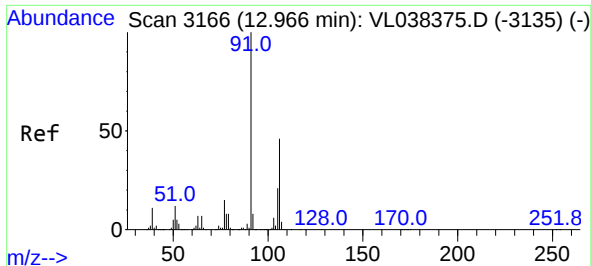


#58
Ethyl Benzene
Concen: 0.153 ppbv
RT: 12.684 min Scan# 3078
Delta R.T. 0.003 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29



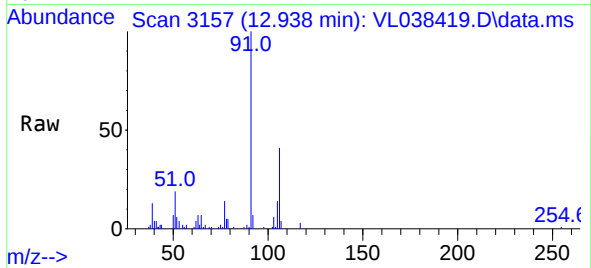
Tgt Ion: 91 Resp: 34498
Ion Ratio Lower Upper
91 100
106 25.5 24.0 36.0





#59
m/p-Xylene
Concen: 0.421 ppbv m
RT: 12.938 min Scan# 3166
Delta R.T. -0.029 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

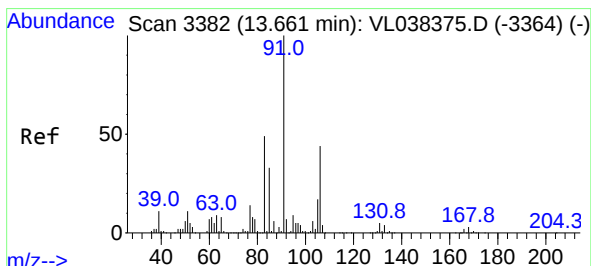
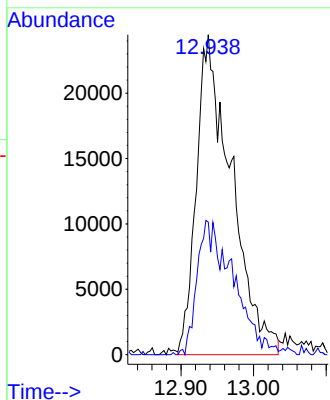
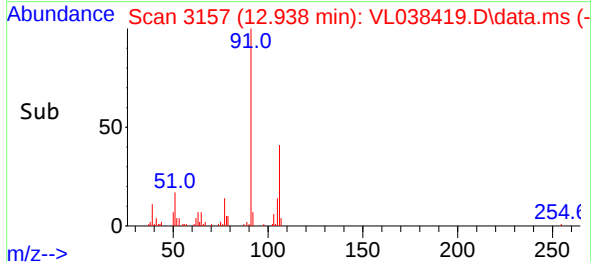
Instrument :
MSVOA_L
ClientSampleId :
IA-3



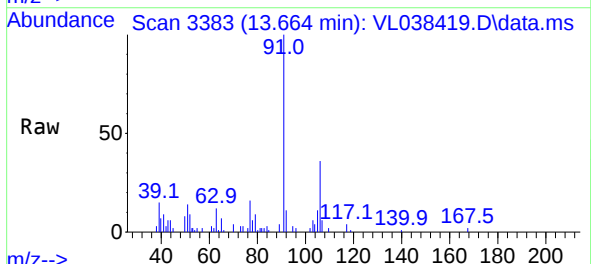
Tgt Ion: 91 Resp: 81739
Ion Ratio Lower Upper
91 100
106 0.0 34.4 51.6

Manual Integrations
APPROVED

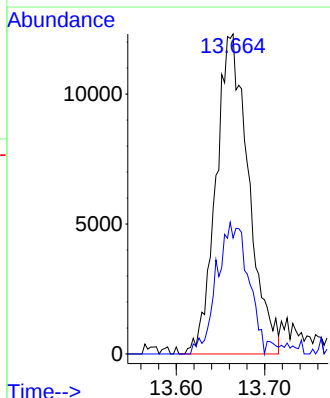
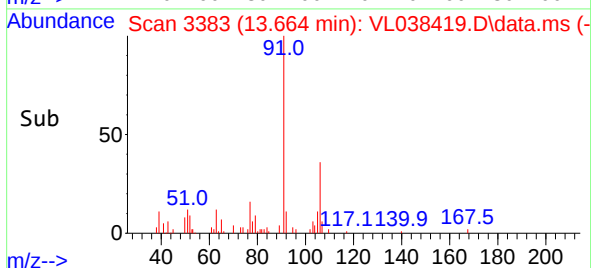
Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022

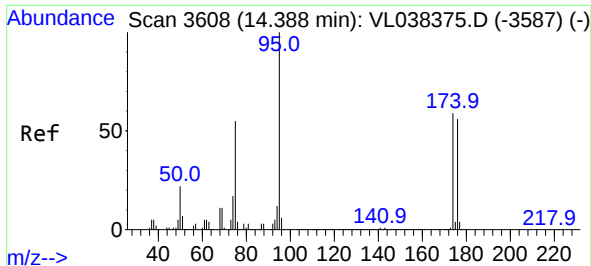


#60
o-Xylene
Concen: 0.172 ppbv m
RT: 13.664 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29



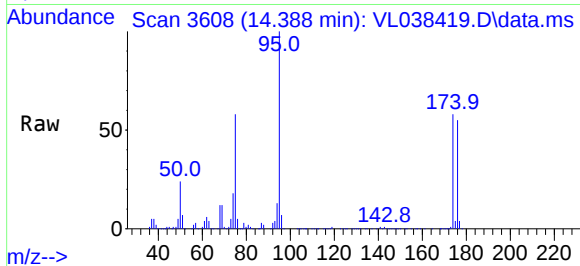
Tgt Ion: 91 Resp: 31585
Ion Ratio Lower Upper
91 100
106 41.0 21.9 65.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.387 ppbv
RT: 14.388 min Scan# 3608
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29

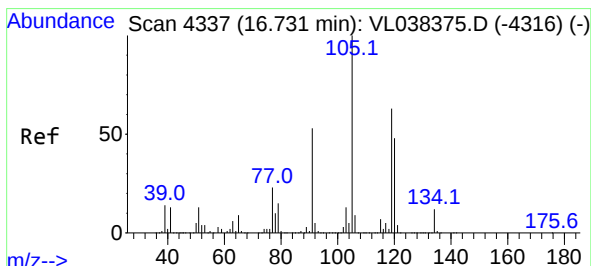
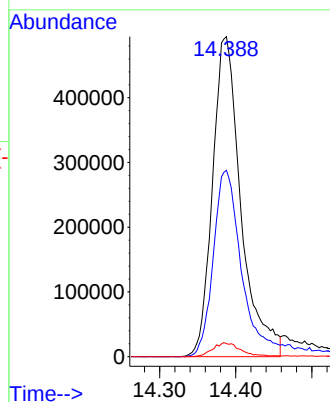
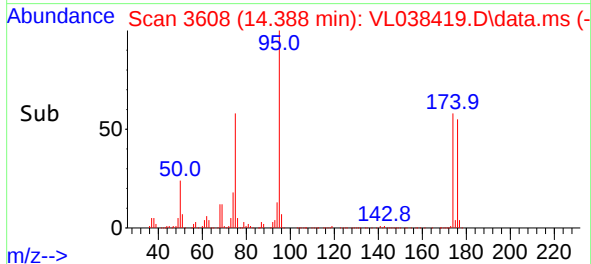
Instrument :
MSVOA_L
ClientSampleId :
IA-3



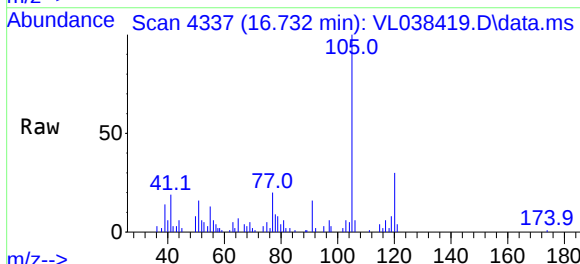
Tgt Ion: 95 Resp: 128333
Ion Ratio Lower Upper
95 100
174 62.8 49.0 73.4
175 4.3 3.6 5.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2022
Supervised By :Mahesh Dadoda 02/25/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.176 ppbv m
RT: 16.732 min Scan# 4337
Delta R.T. 0.000 min
Lab File: VL038419.D
Acq: 23 Feb 2022 22:29



Tgt Ion:105 Resp: 34054
Ion Ratio Lower Upper
105 100
120 30.0 38.2 57.4#
91 16.3 42.7 64.1#
77 20.4 18.5 27.7

