

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
 Data File : VL037945.D
 Acq On : 1 Nov 2021 19:36
 Operator : SY/AP
 Sample : M4426-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/05/2021
 Supervised By :Mahesh Dadoda 11/10/2021

Quant Time: Nov 02 06:07:30 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 02 06:07:30 2021

QLast Update : Tue Nov 02 05:54:07 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.655	49	1322298	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.163	114	3881773	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.070	117	3340195	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.397	95	2421914	9.975	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.047	85	41741	0.224	ppbv	96
3) Chlorodifluoromethane	2.983	51	80543m	0.327	ppbv	
4) Chloromethane	3.137	50	44087m	0.471	ppbv	
5) Vinyl Chloride	3.260	62	2826	0.031	ppbv #	84
9) Propene	3.022	41	504530	5.717	ppbv #	61
10) Heptane	8.108	43	26553m	0.129	ppbv	
11) Trichlorofluoromethane	3.948	101	40818m	0.220	ppbv	
13) Ethanol	3.597	45	5603391	629.334	ppbv	90
15) Acetone	3.842	43	3531112	32.317	ppbv	96
19) Isopropyl Alcohol	3.964	45	1635795	23.411	ppbv #	93
20) Methylene Chloride	4.343	84	111276m	1.855	ppbv	
25) Ethyl Acetate	5.668	43	971188	2.993	ppbv #	92
29) Chloroform	5.739	83	28604m	0.125	ppbv	
30) Cyclohexane	7.115	84	53355m	0.406	ppbv	
34) 2-Butanone	5.237	43	197953	1.376	ppbv	99
35) Carbon Tetrachloride	7.005	117	15120m	0.064	ppbv	
36) Benzene	6.880	78	68545m	0.217	ppbv	
38) Trichloroethene	7.819	130	11066m	0.084	ppbv	
50) 4-Methyl-2-Pentanone	8.742	43	63037m	0.334	ppbv	
52) Tetrachloroethene	11.211	164	48656	0.406	ppbv	89
53) Toluene	9.793	91	703149	2.075	ppbv	100
58) Ethyl Benzene	12.693	91	117576m	0.288	ppbv	
59) m/p-Xylene	12.950	91	456208m	1.257	ppbv	
60) o-Xylene	13.677	91	170837	0.499	ppbv	98
61) Styrene	13.510	104	41001m	0.261	ppbv	
69) p-Isopropyltoluene	17.635	119	69195	0.146	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.748	105	82519m	0.214	ppbv	

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

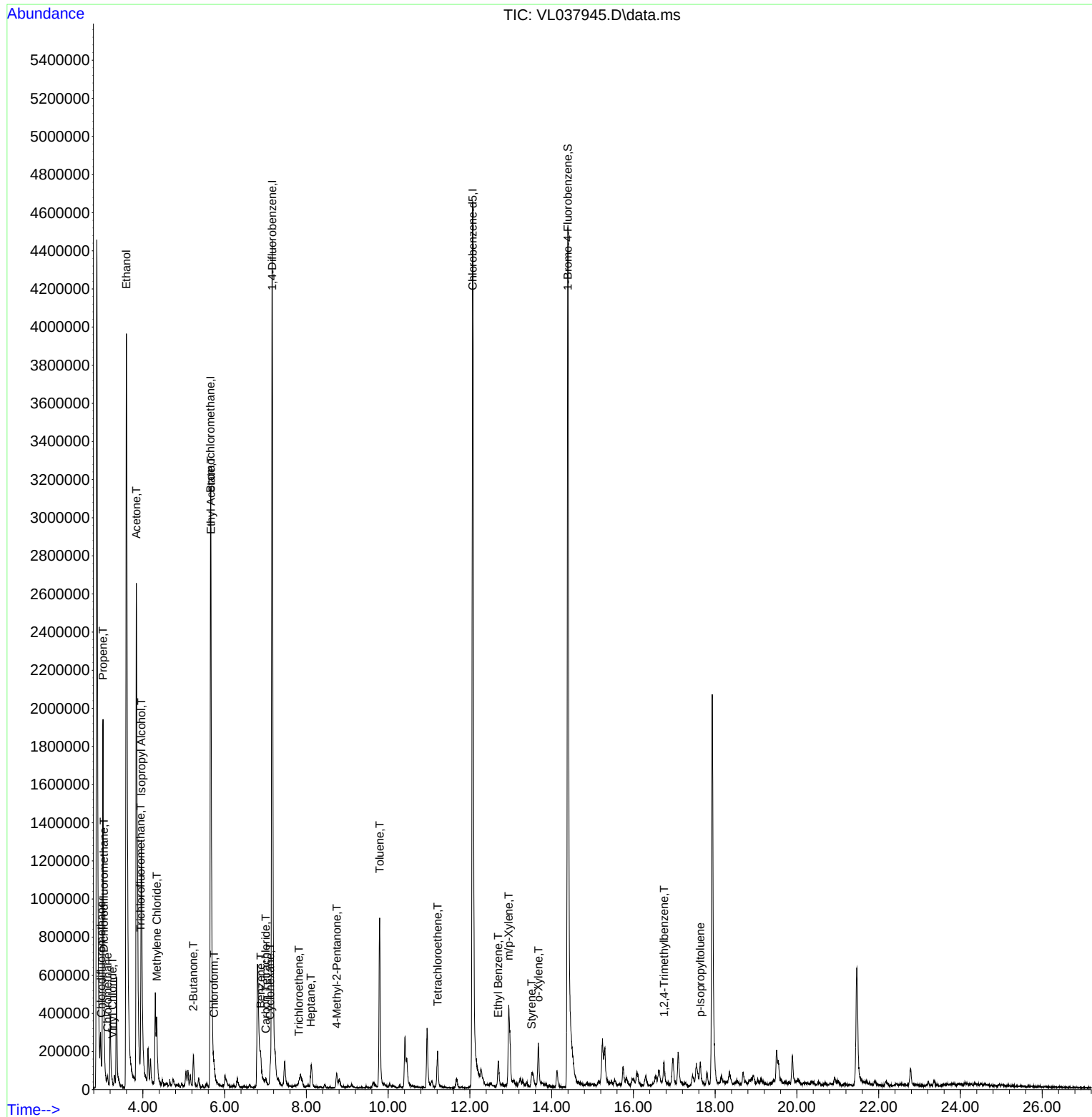
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
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Operator : SY/AP
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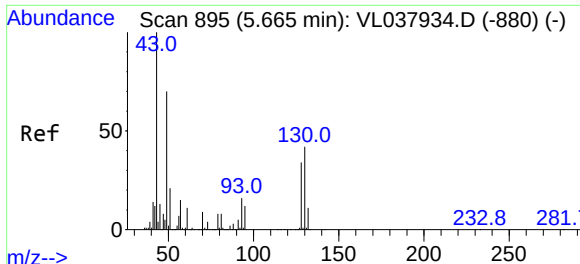
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Nov 02 06:07:30 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration

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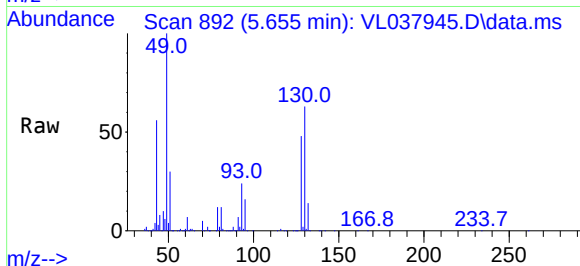
Reviewed By : Semsettin Yesilyurt 11/05/2021
Supervised By : Mahesh Dadoda 11/10/2021





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.655 min Scan# 89
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

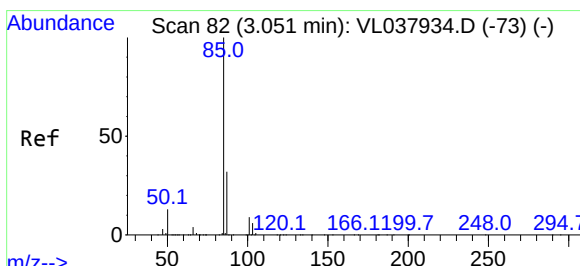
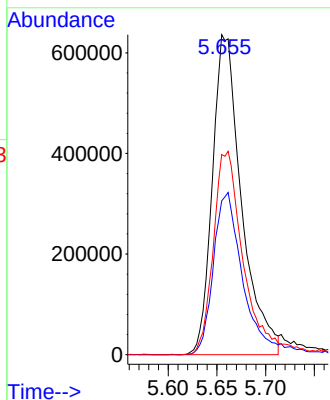
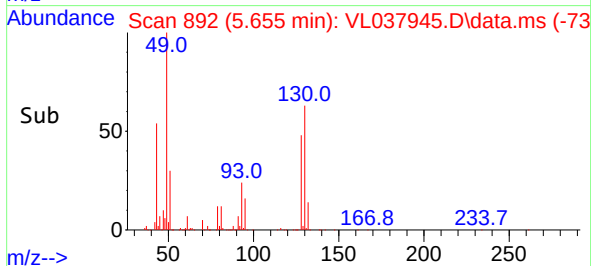
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 1322298
Ion Ratio Lower Upper
49 100
128 53.1 27.0 81.0
130 66.4 33.4 100.2

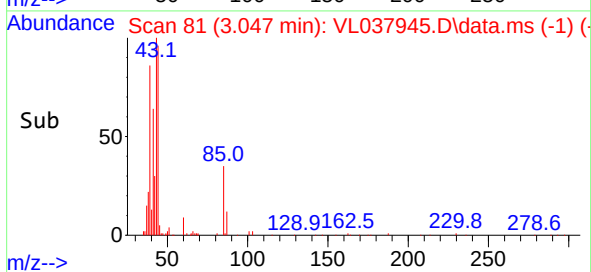
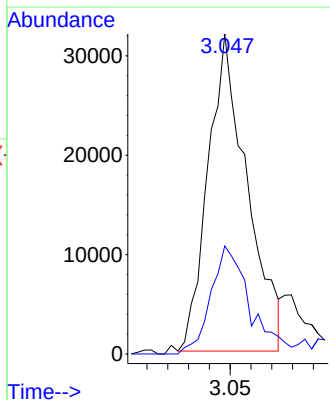
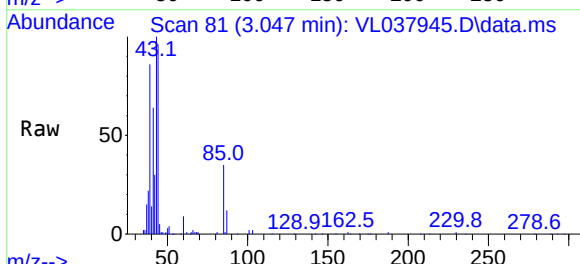
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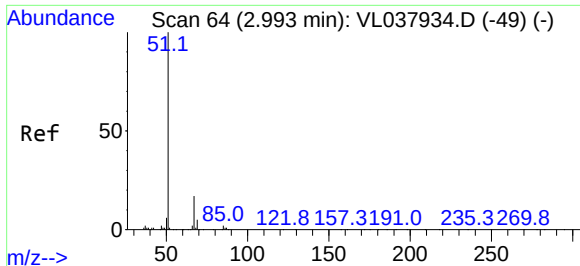
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#2
Dichlorodifluoromethane
Concen: 0.224 ppbv
RT: 3.047 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

Tgt Ion: 85 Resp: 41741
Ion Ratio Lower Upper
85 100
87 34.1 25.3 37.9





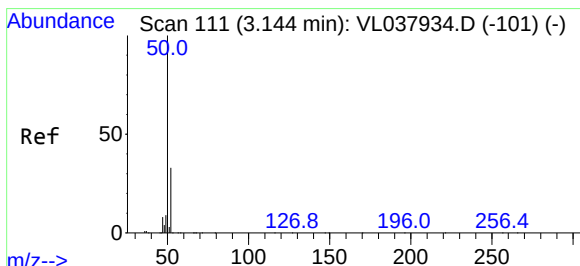
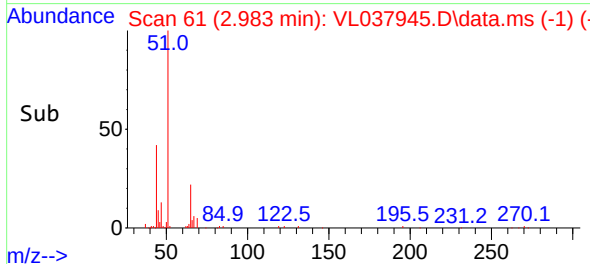
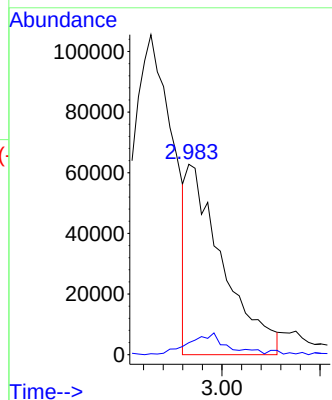
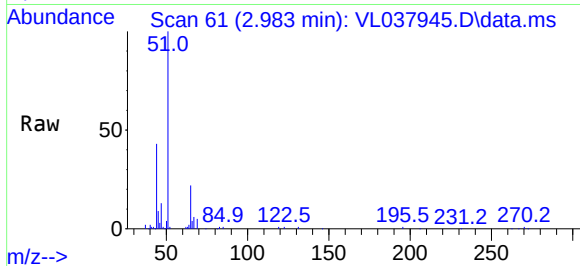
#3
Chlorodifluoromethane
Concen: 0.327 ppbv m
RT: 2.983 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 8054
Ion Ratio Lower Upper
51 100
67 12.8 13.4 20.0

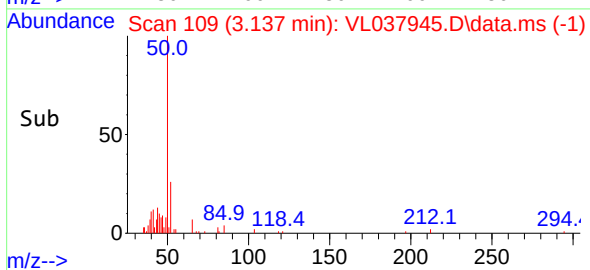
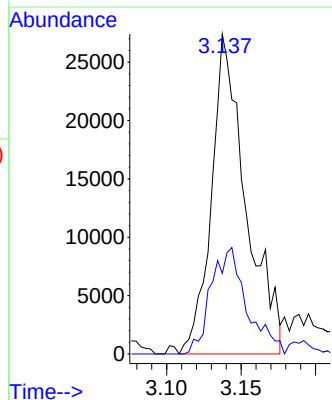
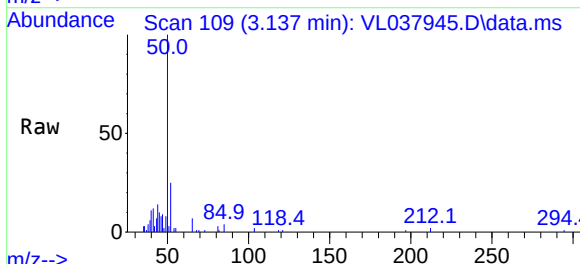
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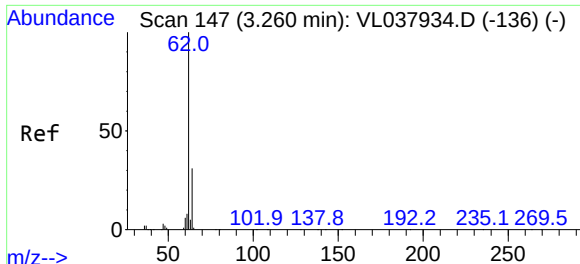
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#4
Chloromethane
Concen: 0.471 ppbv m
RT: 3.137 min Scan# 109
Delta R.T. -0.006 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

Tgt Ion: 50 Resp: 44087
Ion Ratio Lower Upper
50 100
52 25.2 26.3 39.5





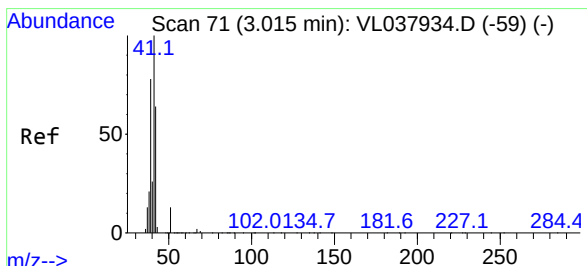
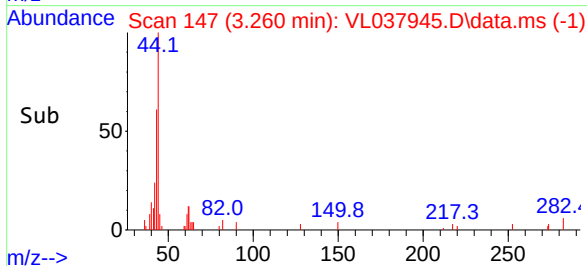
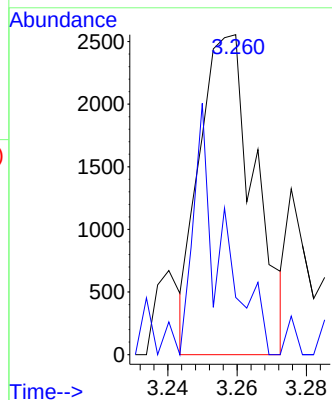
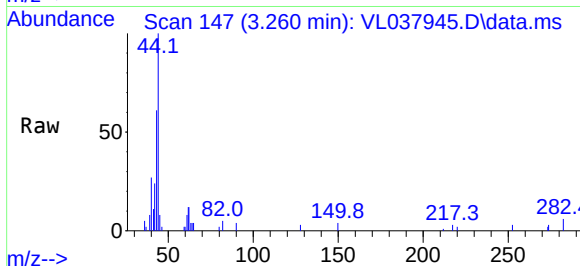
#5
 Vinyl Chloride
 Concen: 0.031 ppbv
 RT: 3.260 min Scan# 147
 Delta R.T. 0.000 min
 Lab File: VL037945.D
 Acq: 1 Nov 2021 19:36

Instrument :
 MSVOA_L
 ClientSampleId :
 1A1

Tgt Ion: 62 Resp: 2820
 Ion Ratio Lower Upper
 62 100
 64 22.1 24.7 37.1

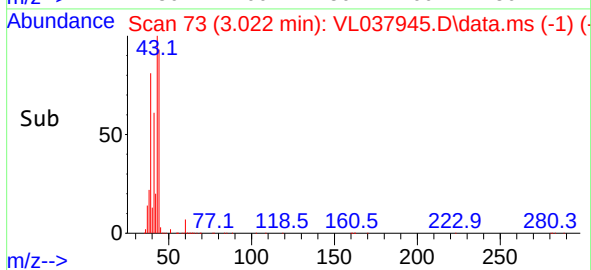
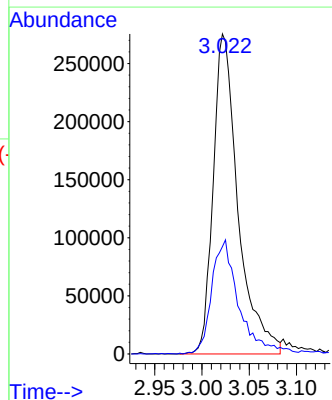
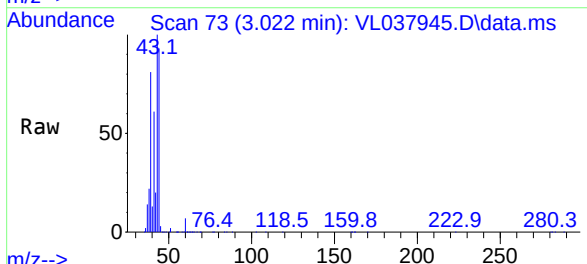
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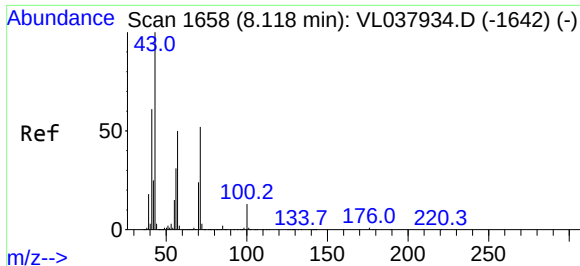
Reviewed By :Semsettin Yesilyurt 11/05/2021
 Supervised By :Mahesh Dadoda 11/10/2021



#9
 Propene
 Concen: 5.717 ppbv
 RT: 3.022 min Scan# 73
 Delta R.T. 0.006 min
 Lab File: VL037945.D
 Acq: 1 Nov 2021 19:36

Tgt Ion: 41 Resp: 504530
 Ion Ratio Lower Upper
 41 100
 42 39.7 57.6 86.4





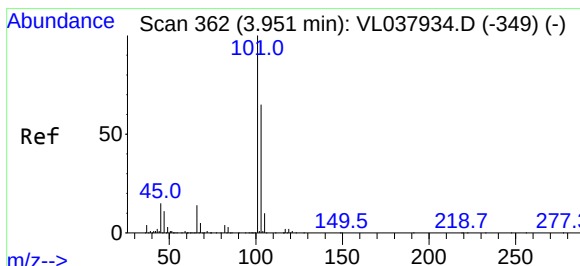
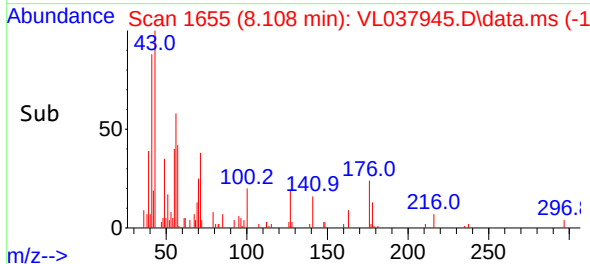
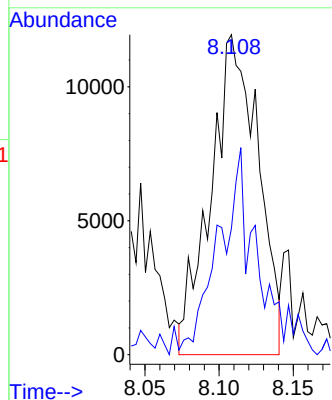
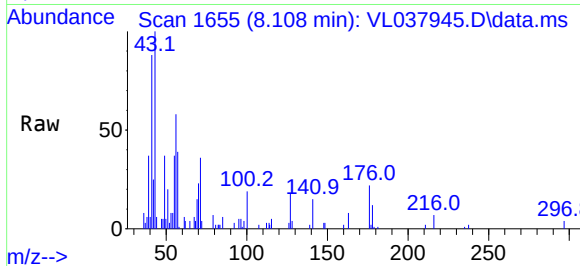
#10
Heptane
Concen: 0.129 ppbv m
RT: 8.108 min Scan# 1
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 2655
Ion Ratio Lower Upper
43 100
57 54.6 39.8 59.8

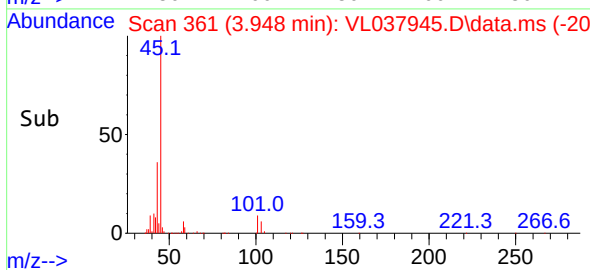
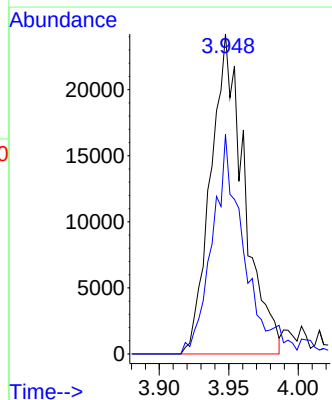
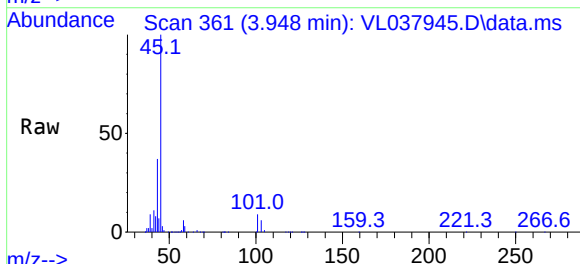
Manual Integrations
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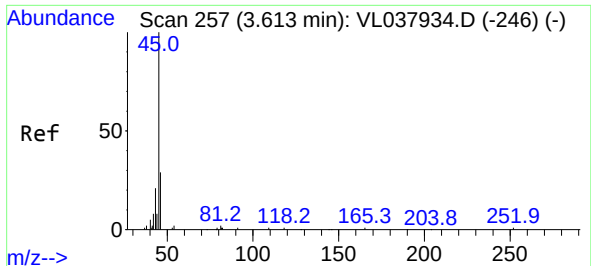
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#11
Trichlorofluoromethane
Concen: 0.220 ppbv m
RT: 3.948 min Scan# 361
Delta R.T. -0.003 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

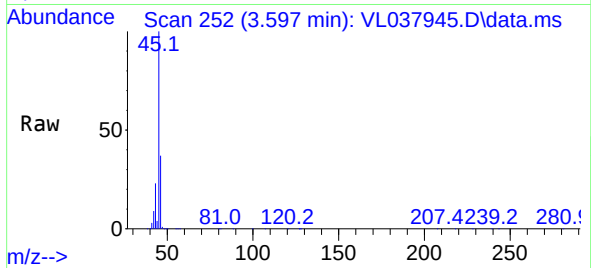
Tgt Ion:101 Resp: 40818
Ion Ratio Lower Upper
101 100
103 68.6 52.0 78.0





#13
Ethanol
Concen: 629.334 ppbv
RT: 3.597 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

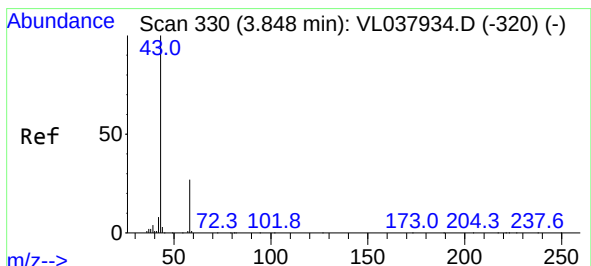
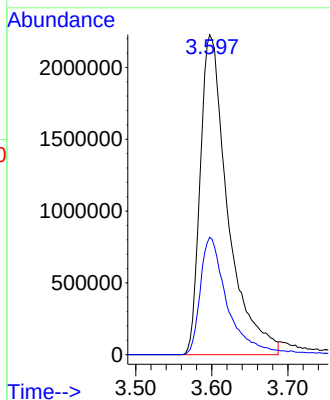
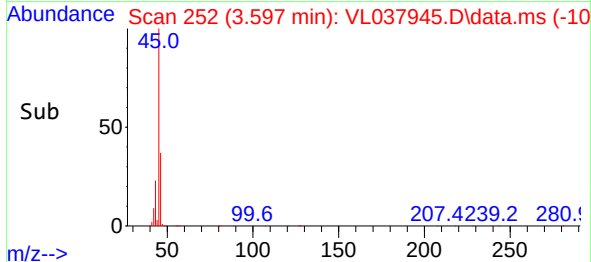
Instrument :
MSVOA_L
ClientSampleId :
IA1



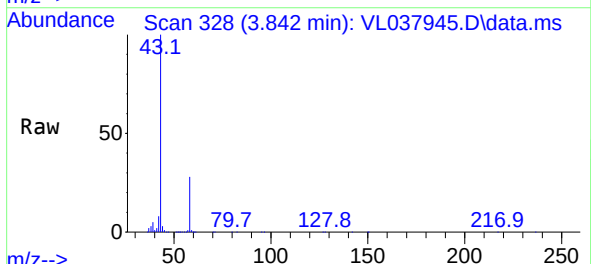
Tgt Ion: 45 Resp: 560339
Ion Ratio Lower Upper
45 100
46 37.1 17.4 69.8

Manual Integrations
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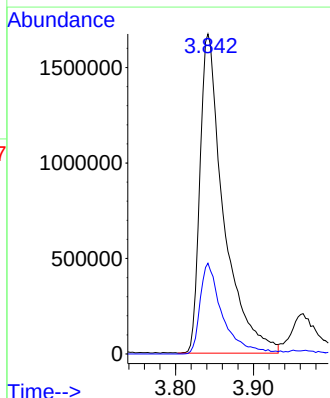
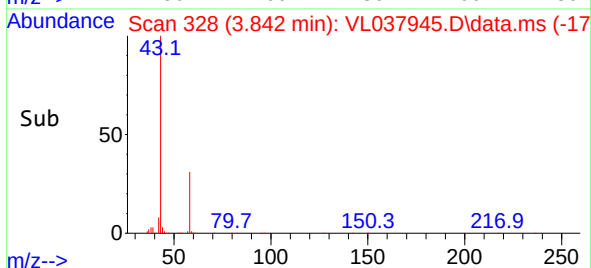
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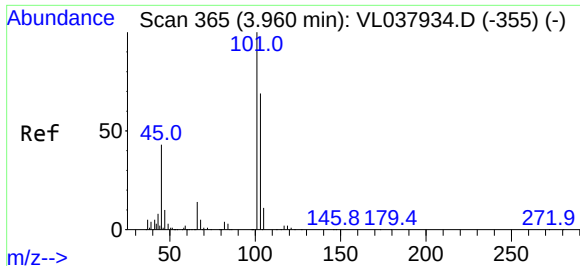


#15
Acetone
Concen: 32.317 ppbv
RT: 3.842 min Scan# 328
Delta R.T. -0.006 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36



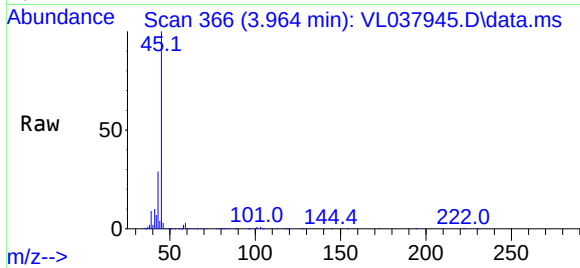
Tgt Ion: 43 Resp: 3531112
Ion Ratio Lower Upper
43 100
58 26.9 23.3 34.9





#19
Isopropyl Alcohol
Concen: 23.411 ppbv
RT: 3.964 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

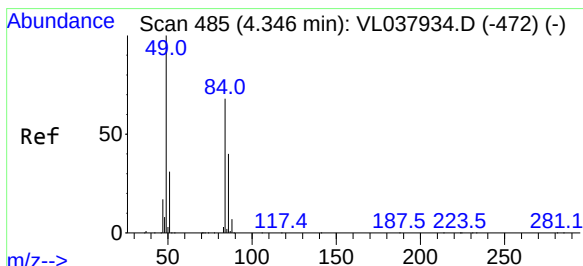
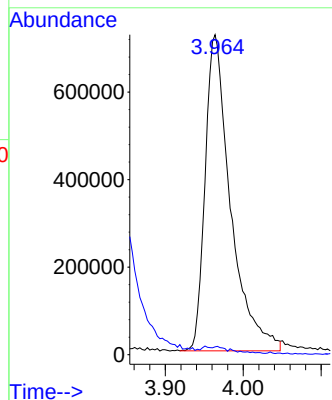
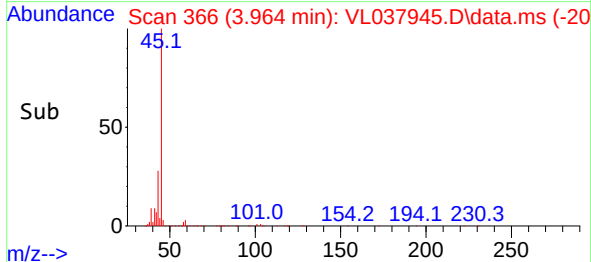
Instrument :
MSVOA_L
ClientSampleId :
IA1



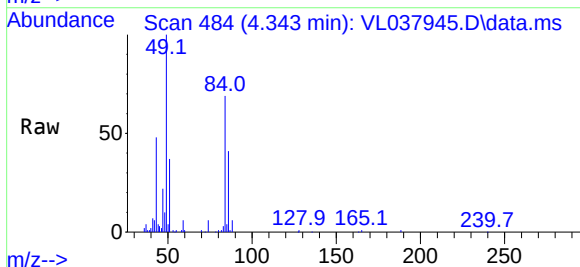
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Ion Ratio Lower Upper
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58 2.6 4.0 6.0

Manual Integrations
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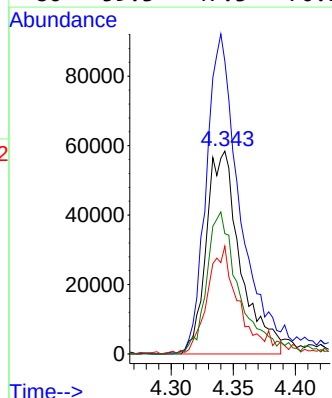
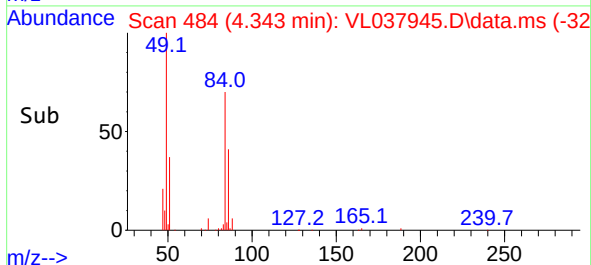
Reviewed By :Semsettin Yesilyurt 11/05/2021
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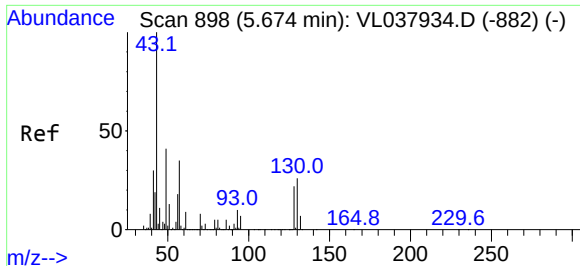


#20
Methylene Chloride
Concen: 1.855 ppbv m
RT: 4.343 min Scan# 484
Delta R.T. -0.003 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36



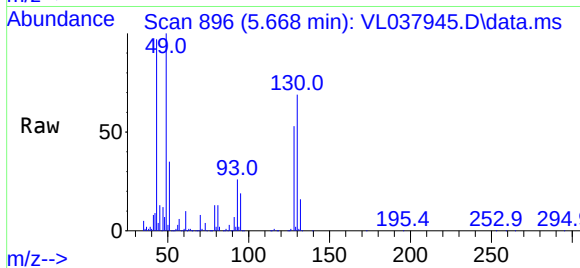
Tgt Ion: 84 Resp: 111276
Ion Ratio Lower Upper
84 100
49 144.3 117.5 176.3
51 53.1 35.9 53.9
86 59.3 47.3 70.9





#25
Ethyl Acetate
Concen: 2.993 ppbv
RT: 5.668 min Scan# 896
Delta R.T. -0.006 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

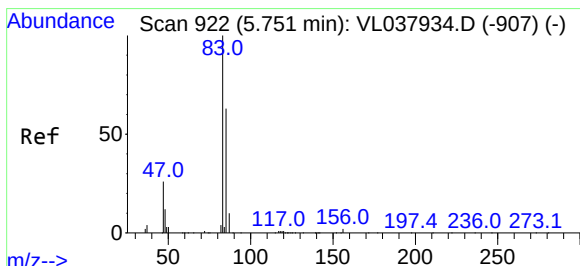
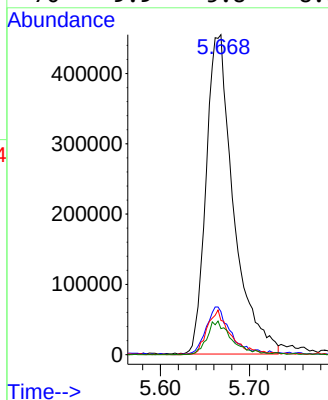
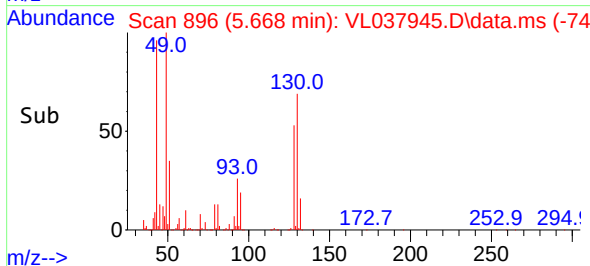
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 97118
Ion Ratio Lower Upper
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61 12.2 8.1 12.1
70 9.9 5.8 8.6

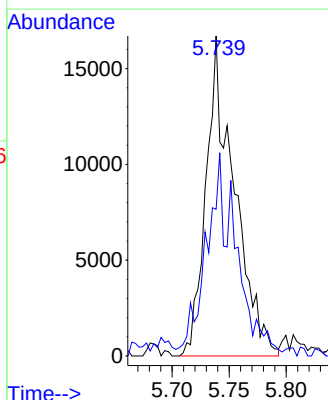
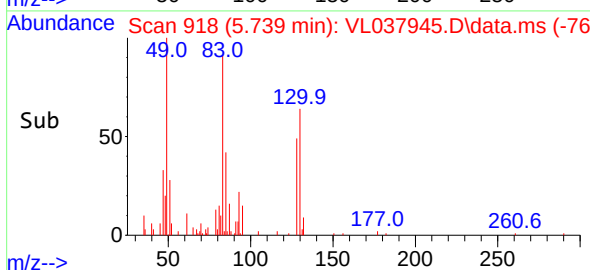
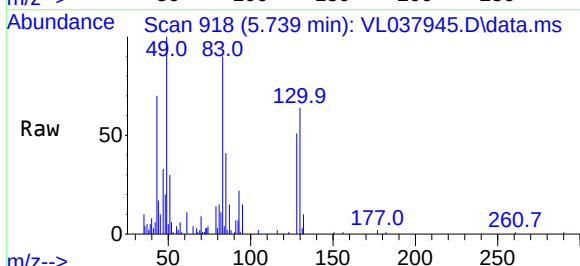
Manual Integrations
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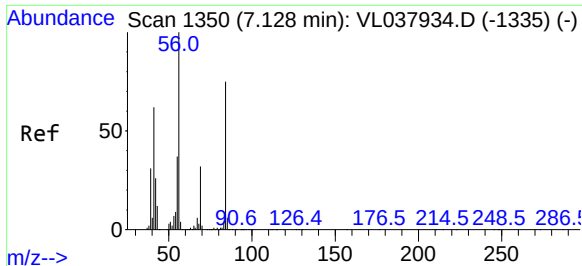
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Supervised By :Mahesh Dadoda 11/10/2021



#29
Chloroform
Concen: 0.125 ppbv m
RT: 5.739 min Scan# 918
Delta R.T. -0.013 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

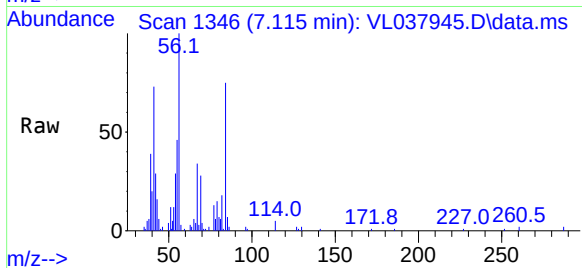
Tgt Ion: 83 Resp: 28604
Ion Ratio Lower Upper
83 100
85 45.9 50.6 76.0





#30
Cyclohexane
Concen: 0.406 ppbv m
RT: 7.115 min Scan# 1346
Delta R.T. -0.013 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

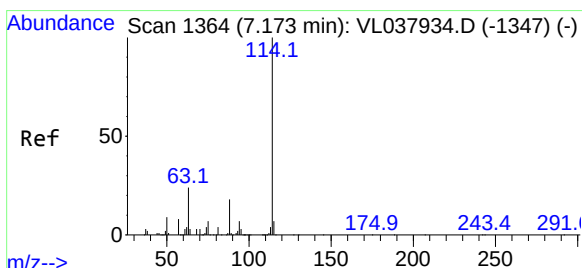
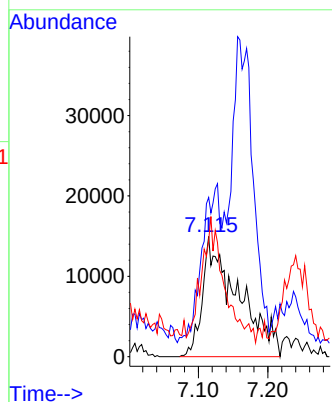
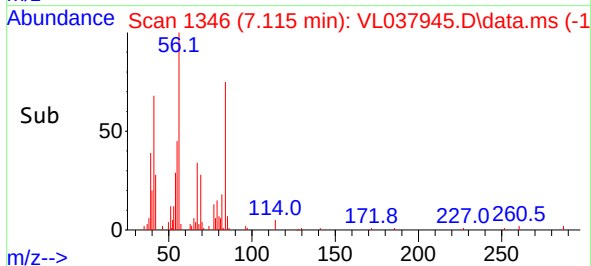
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 5335
Ion Ratio Lower Upper
84 100
56 0.0 114.0 171.0
41 0.0 68.3 102.5

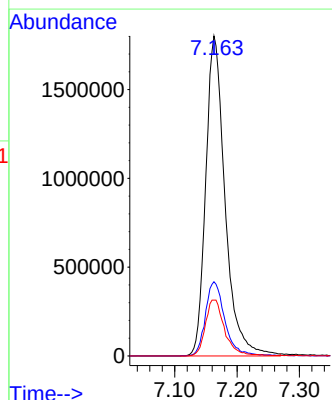
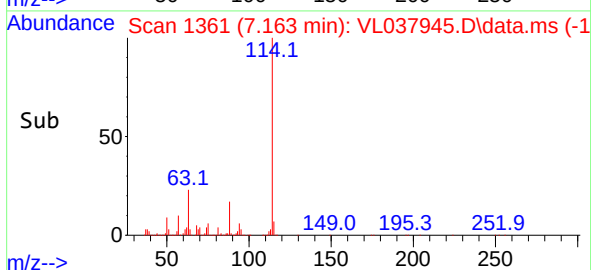
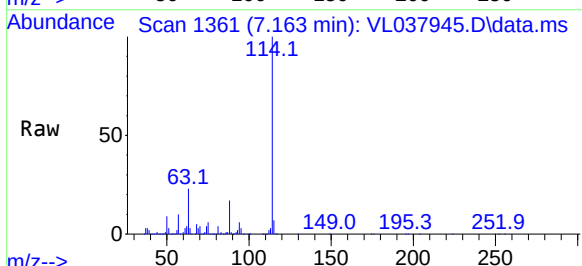
Manual Integrations
APPROVED

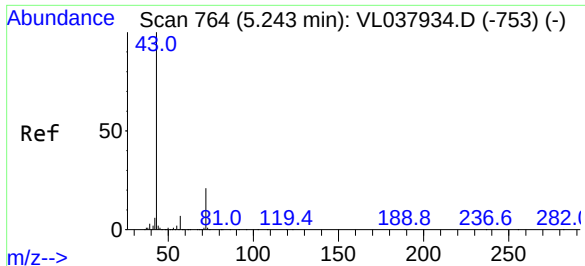
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.163 min Scan# 1361
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

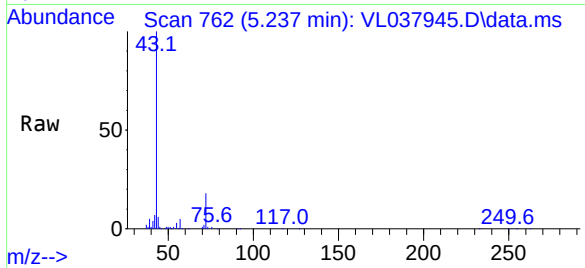
Tgt Ion:114 Resp: 3881773
Ion Ratio Lower Upper
114 100
63 23.6 19.4 29.0
88 17.6 14.2 21.4





#34
2-Butanone
Concen: 1.376 ppbv
RT: 5.237 min Scan# 70
Delta R.T. -0.006 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

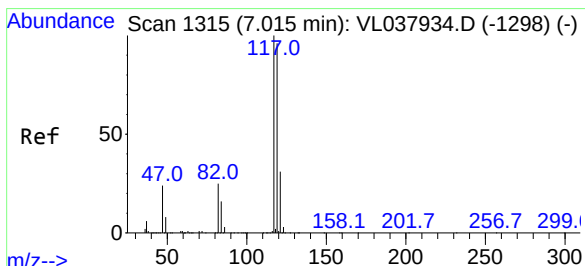
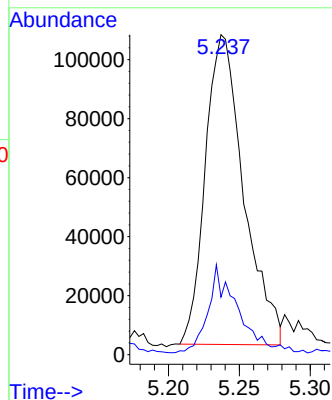
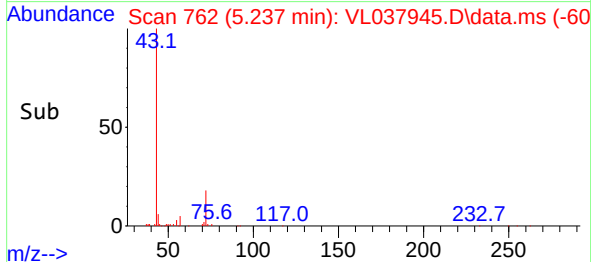
Instrument :
MSVOA_L
ClientSampleId :
IA1



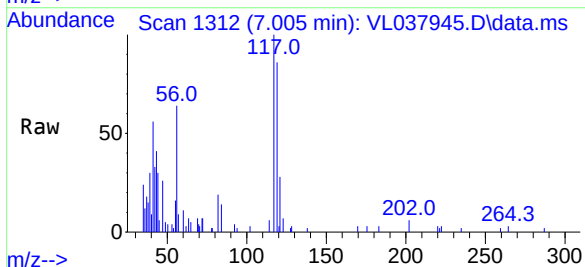
Tgt Ion: 43 Resp: 19795
Ion Ratio Lower Upper
43 100
72 23.3 18.3 27.5

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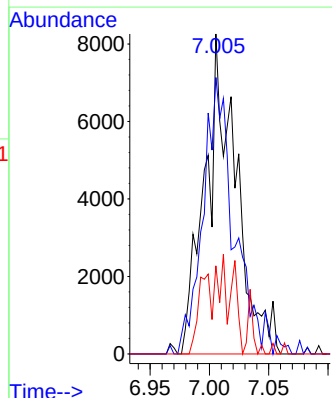
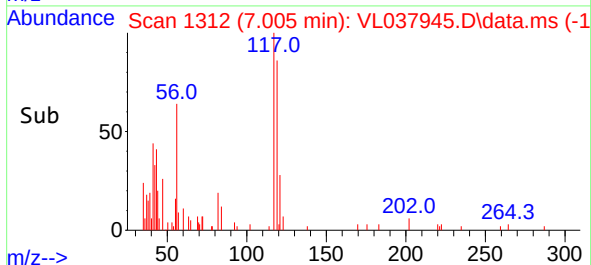
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

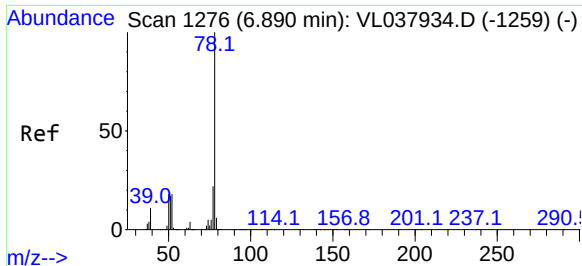


#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 7.005 min Scan# 1312
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36



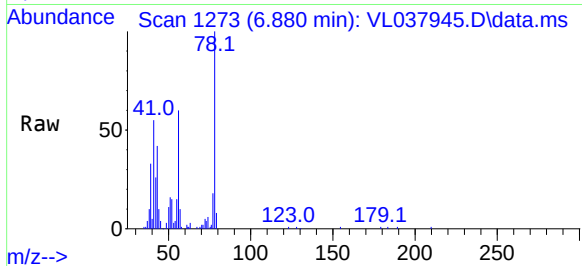
Tgt Ion:117 Resp: 15120
Ion Ratio Lower Upper
117 100
119 86.4 76.6 114.8
121 27.5 25.1 37.7





#36
Benzene
Concen: 0.217 ppbv m
RT: 6.880 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

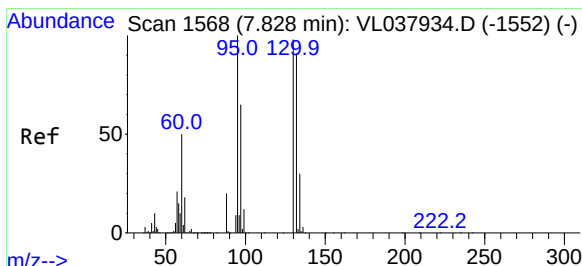
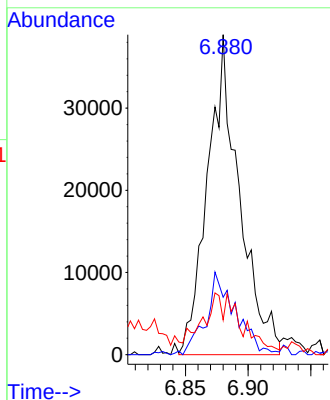
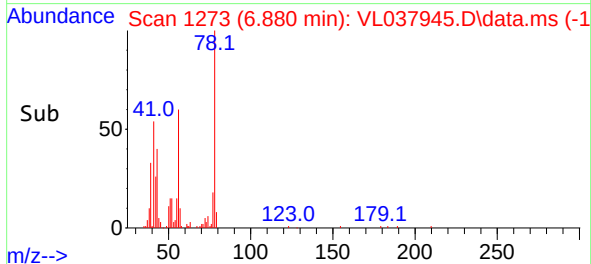
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 78 Resp: 6854
Ion Ratio Lower Upper
78 100
77 18.0 17.9 26.9
50 10.9 14.4 21.6

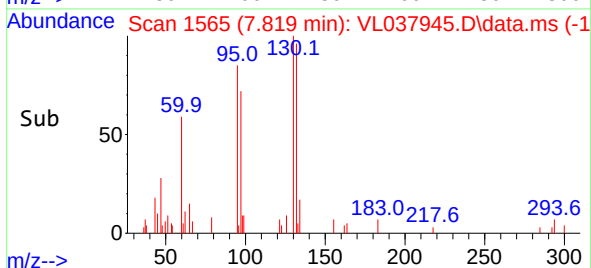
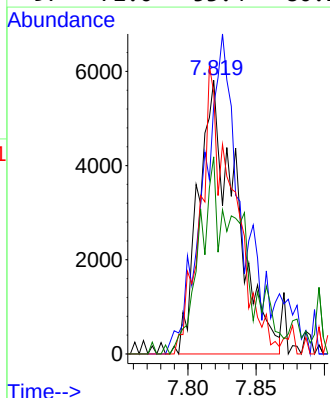
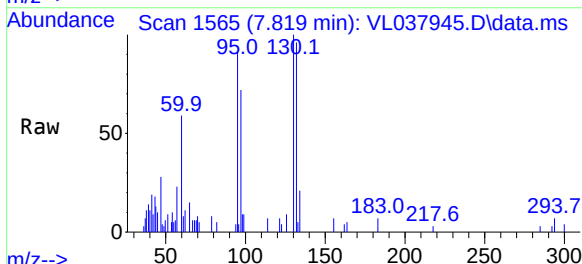
Manual Integrations
APPROVED

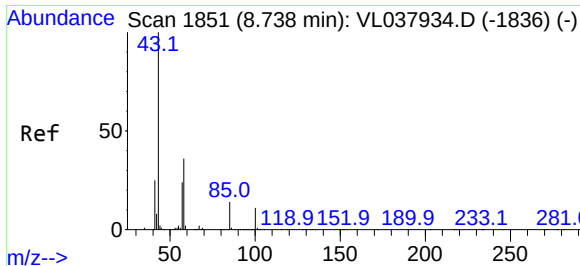
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#38
Trichloroethene
Concen: 0.084 ppbv m
RT: 7.819 min Scan# 1565
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

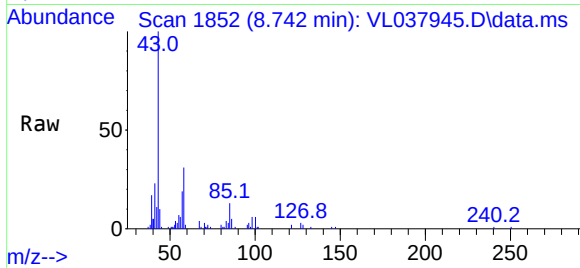
Tgt Ion:130 Resp: 11066
Ion Ratio Lower Upper
130 100
95 90.9 81.8 122.8
132 95.6 74.2 111.2
97 72.0 53.4 80.2





#50
4-Methyl-2-Pentanone
Concen: 0.334 ppbv m
RT: 8.742 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

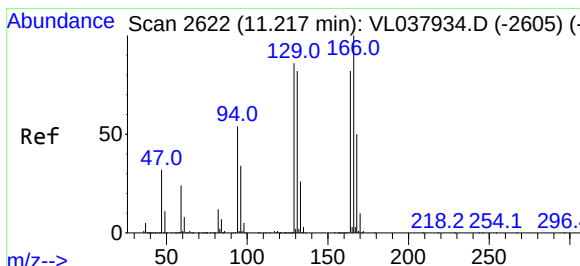
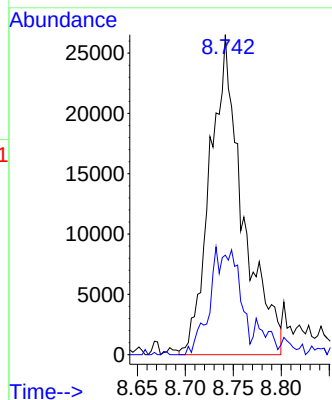
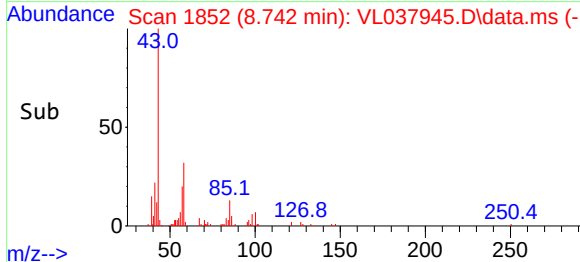
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 6303
Ion Ratio Lower Upper
43 100
58 36.8 28.8 43.2

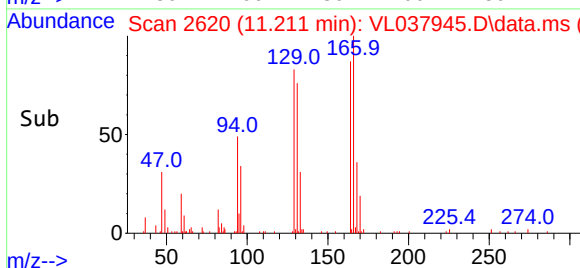
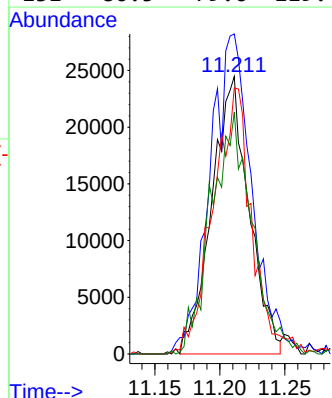
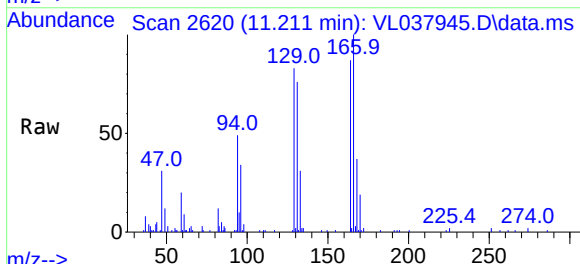
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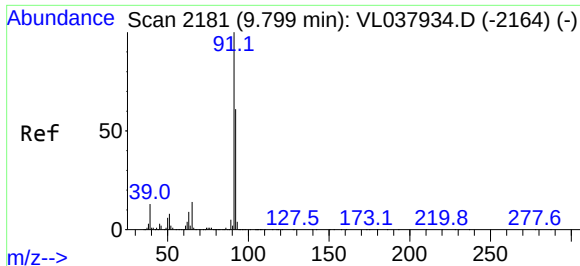
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#52
Tetrachloroethene
Concen: 0.406 ppbv
RT: 11.211 min Scan# 2620
Delta R.T. -0.006 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

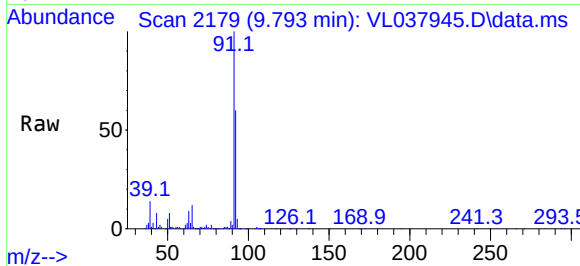
Tgt Ion:164 Resp: 48656
Ion Ratio Lower Upper
164 100
166 109.4 97.6 146.4
129 94.6 84.2 126.2
131 86.5 79.6 119.4





#53
Toluene
Concen: 2.075 ppbv
RT: 9.793 min Scan# 2181
Delta R.T. -0.006 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

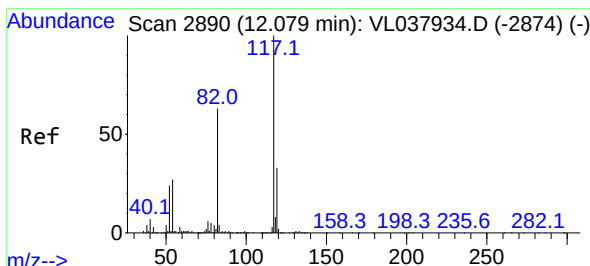
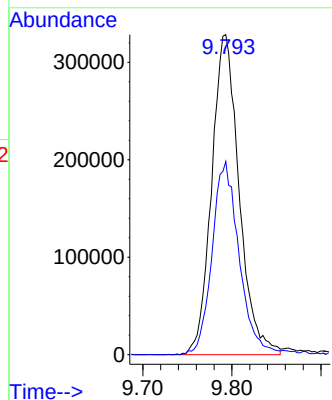
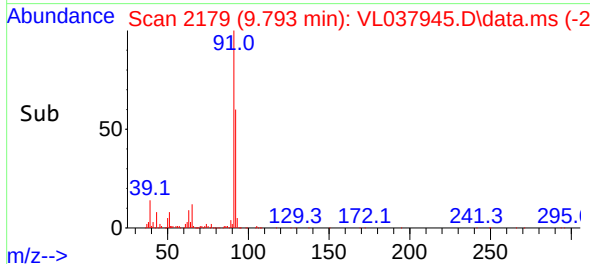
Instrument :
MSVOA_L
ClientSampleId :
IA1



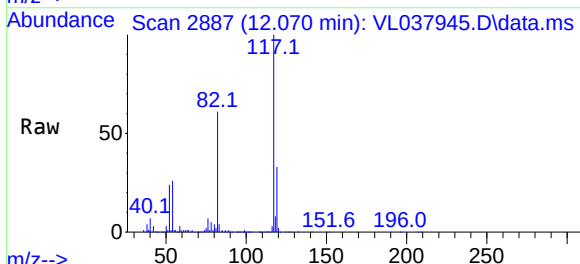
Tgt Ion: 91 Resp: 703149
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.4

Manual Integrations
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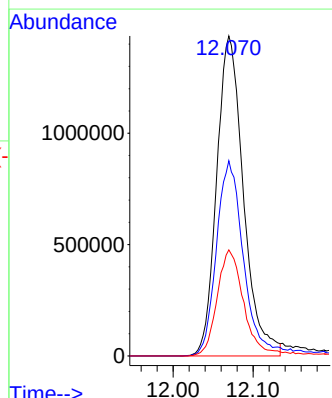
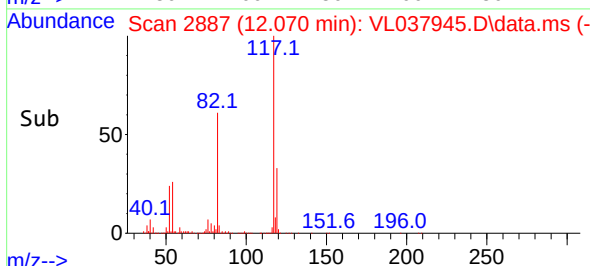
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

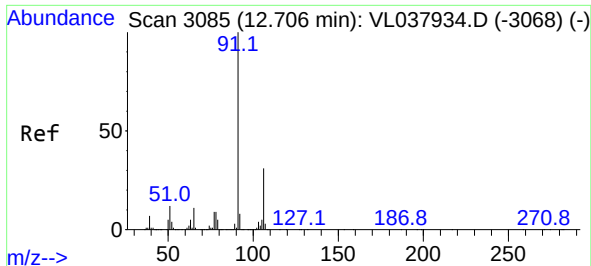


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.070 min Scan# 2887
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36



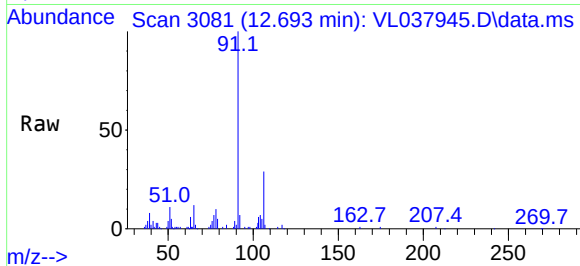
Tgt Ion:117 Resp: 3340195
Ion Ratio Lower Upper
117 100
82 64.2 51.0 76.6
119 34.0 26.9 40.3





#58
Ethyl Benzene
Concen: 0.288 ppbv m
RT: 12.693 min Scan# 3081
Delta R.T. -0.013 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

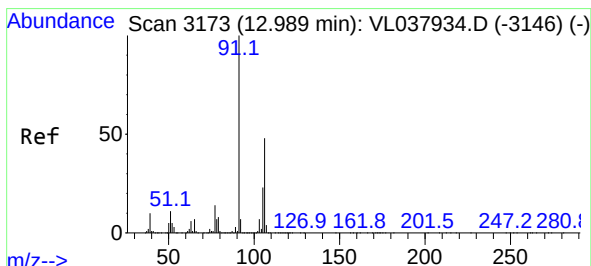
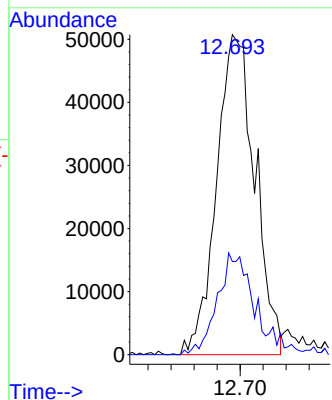
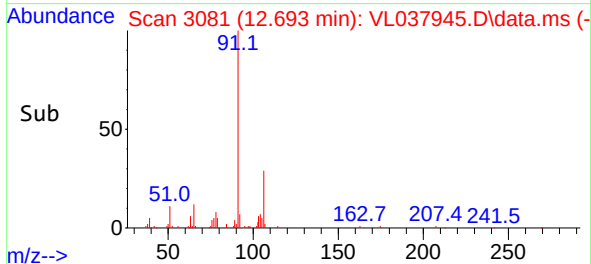
Instrument : MSVOA_L
ClientSampleId : IA1



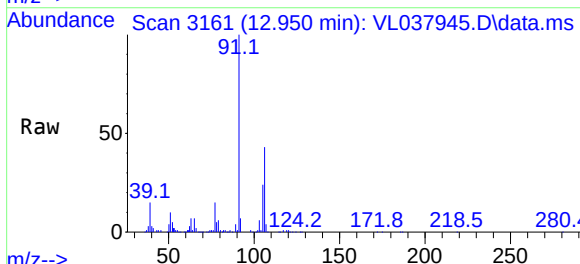
Tgt Ion: 91 Resp: 117570
Ion Ratio Lower Upper
91 100
106 29.1 25.1 37.7

Manual Integrations
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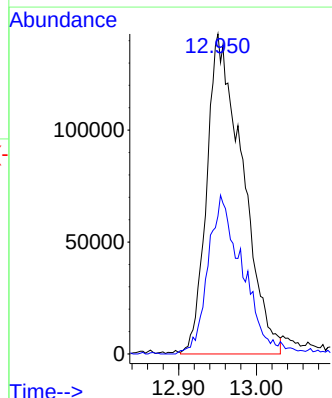
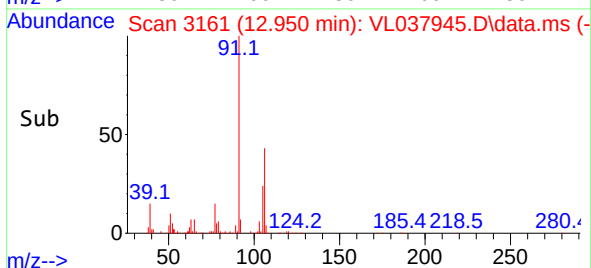
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

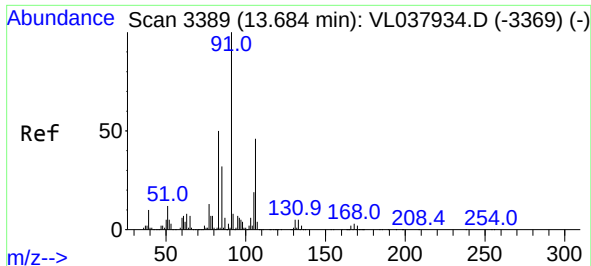


#59
m/p-Xylene
Concen: 1.257 ppbv m
RT: 12.950 min Scan# 3161
Delta R.T. -0.039 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36



Tgt Ion: 91 Resp: 456208
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#





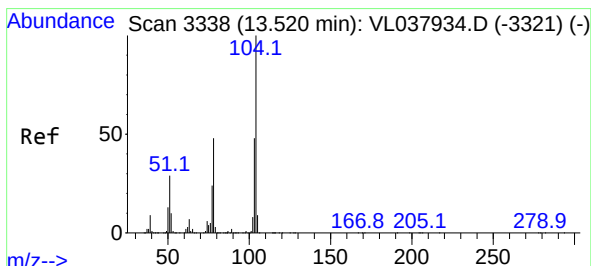
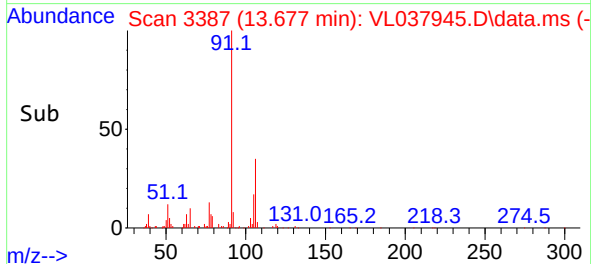
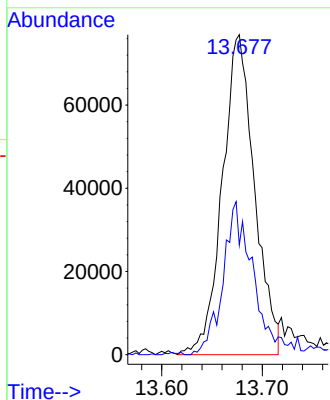
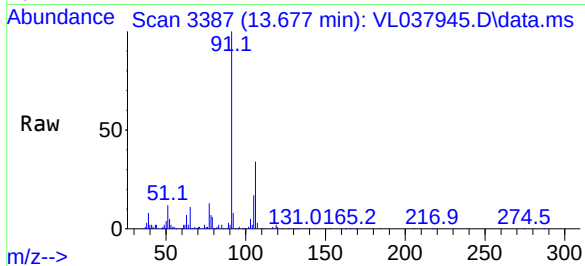
#60
o-Xylene
Concen: 0.499 ppbv
RT: 13.677 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 17083
Ion Ratio Lower Upper
91 100
106 45.6 23.5 70.6

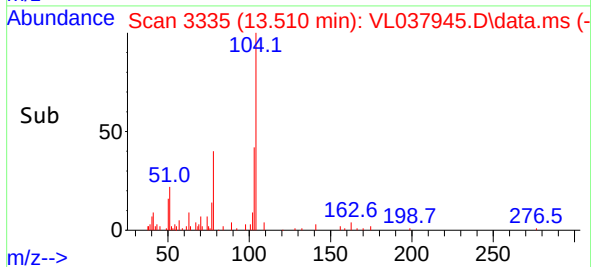
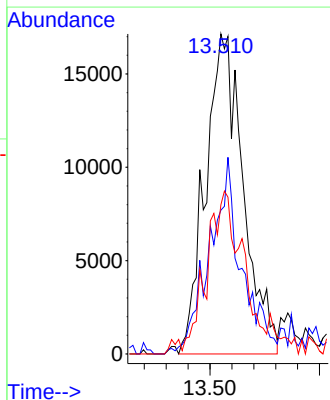
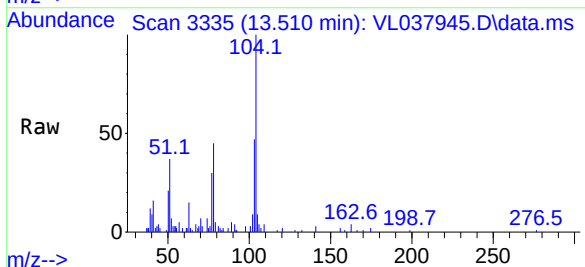
Manual Integrations
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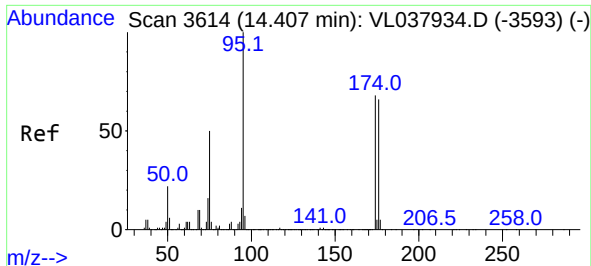
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#61
Styrene
Concen: 0.261 ppbv m
RT: 13.510 min Scan# 3335
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

Tgt Ion:104 Resp: 41001
Ion Ratio Lower Upper
104 100
78 56.2 39.3 58.9
103 53.5 39.6 59.4





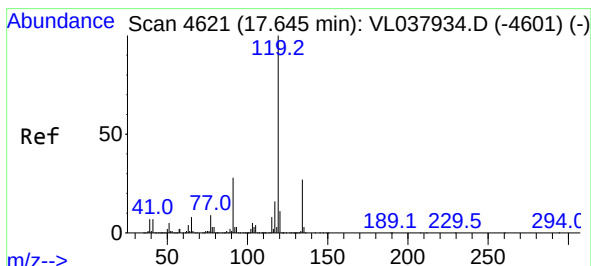
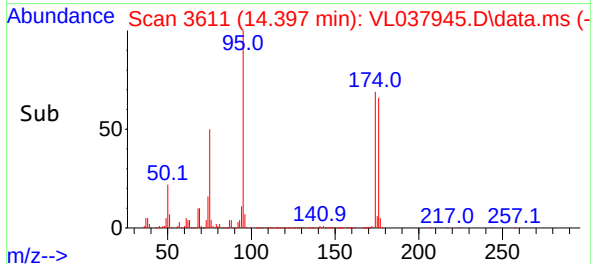
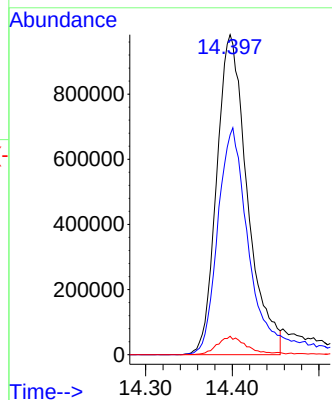
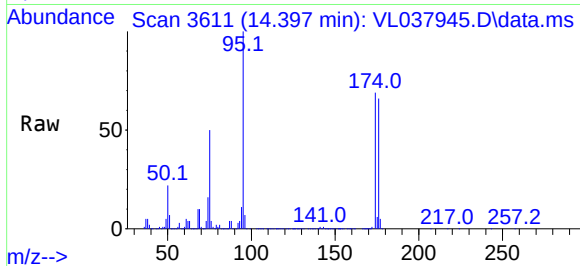
#68
1-Bromo-4-Fluorobenzene
Concen: 9.975 ppbv
RT: 14.397 min Scan# 3611
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 95 Resp: 2421914
Ion Ratio Lower Upper
95 100
174 77.4 58.3 87.5
175 6.0 4.6 6.8

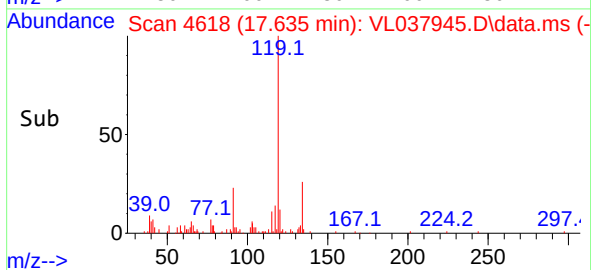
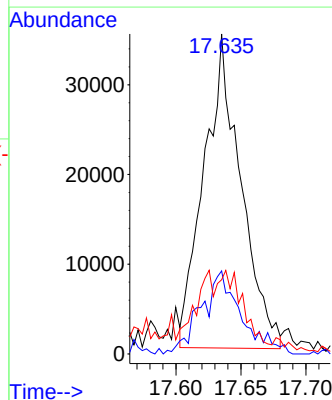
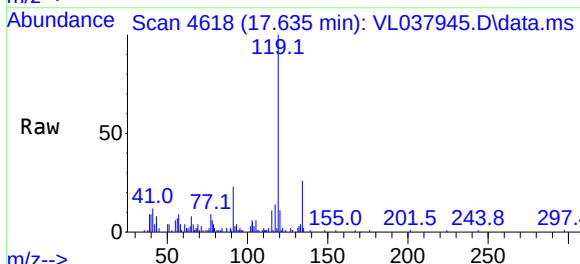
Manual Integrations
APPROVED

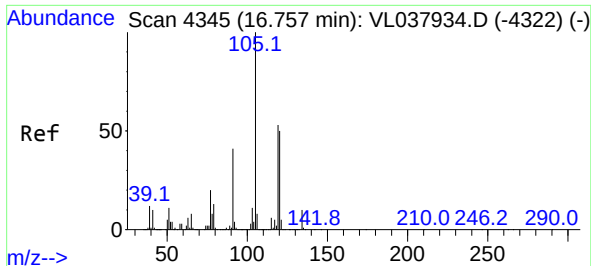
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#69
p-Isopropyltoluene
Concen: 0.146 ppbv
RT: 17.635 min Scan# 4618
Delta R.T. -0.010 min
Lab File: VL037945.D
Acq: 1 Nov 2021 19:36

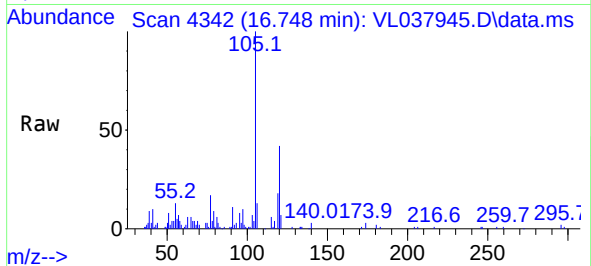
Tgt Ion:119 Resp: 69195
Ion Ratio Lower Upper
119 100
134 30.0 21.0 31.4
91 42.1 21.8 32.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.214 ppbv m
 RT: 16.748 min Scan# 4345
 Delta R.T. -0.010 min
 Lab File: VL037945.D
 Acq: 1 Nov 2021 19:36

Instrument : MSVOA_L
 ClientSampleId : IA1



Tgt Ion:105 Resp: 82519

Ion	Ratio	Lower	Upper
105	100		
120	42.0	40.0	60.0
91	11.1	32.6	49.0
77	16.7	15.8	23.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/05/2021
 Supervised By :Mahesh Dadoda 11/10/2021

