

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052322\
 Data File : VL039097.D
 Acq On : 23 May 2022 23:44
 Operator : SY/AP
 Sample : N2956-04DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/25/2022
 Supervised By :Mahesh Dadoda 05/26/2022

Quant Time: May 24 06:04:11 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 0

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.652	49	1380664	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	7.156	114	3563723	10.000	ppbv	-0.02
55) Chlorobenzene-d5	12.060	117	3195346	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.388	95	2458642	9.716	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						
					Qvalue	
4) Chloromethane	3.137	50	15113m	0.176	ppbv	
9) Propene	3.005	41	2205556	29.479	ppbv	90
10) Heptane	8.102	43	984712	5.365	ppbv	98
13) Ethanol	3.591	45	109769	20.732	ppbv	99
15) Acetone	3.835	43	6120421	46.994	ppbv	96
17) tert-Butyl alcohol	4.276	59	182832	1.827	ppbv	98
19) Isopropyl Alcohol	3.948	45	385651	6.228	ppbv #	95
20) Methylene Chloride	4.333	84	87978	1.792	ppbv	92
26) Hexane	5.671	57	310635	2.243	ppbv #	41
27) Carbon Disulfide	4.536	76	60242m	0.458	ppbv	
30) Cyclohexane	7.105	84	19242m	0.166	ppbv	
32) 1,1,1-Trichloroethane	6.494	97	7822m	0.035	ppbv	
34) 2-Butanone	5.224	43	1122537	6.174	ppbv	98
36) Benzene	6.870	78	385554	1.264	ppbv	95
41) Tetrahydrofuran	6.031	42	443534	3.630	ppbv	99
44) 2,2,4-Trimethylpentane	7.854	57	87454m	0.163	ppbv	
50) 4-Methyl-2-Pentanone	8.726	43	156167	0.490	ppbv	95
52) Tetrachloroethene	11.195	164	54555m	0.501	ppbv	
53) Toluene	9.783	91	532888	1.559	ppbv	99
58) Ethyl Benzene	12.684	91	171710	0.373	ppbv	95
59) m/p-Xylene	12.941	91	632361m	1.611	ppbv	
60) o-Xylene	13.667	91	261319	0.707	ppbv	99
64) n-propylbenzene	15.529	120	23752m	0.182	ppbv	
70) n-Butylbenzene	18.529	91	65077m	0.112	ppbv	
72) 4-Ethyltoluene	15.812	105	166033	0.394	ppbv #	98
73) 1,3,5-Trimethylbenzene	15.973	105	186886m	0.493	ppbv	
74) 1,2,4-Trimethylbenzene	16.732	105	645413	1.555	ppbv #	64
79) Naphthalene	22.153	128	75710m	0.225	ppbv	
80) Naphthalene,2-methyl-	24.937	142	11386m	0.112	ppbv	

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

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Manual Integrations
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Supervised By :Mahesh Dadoda 05/26/2022

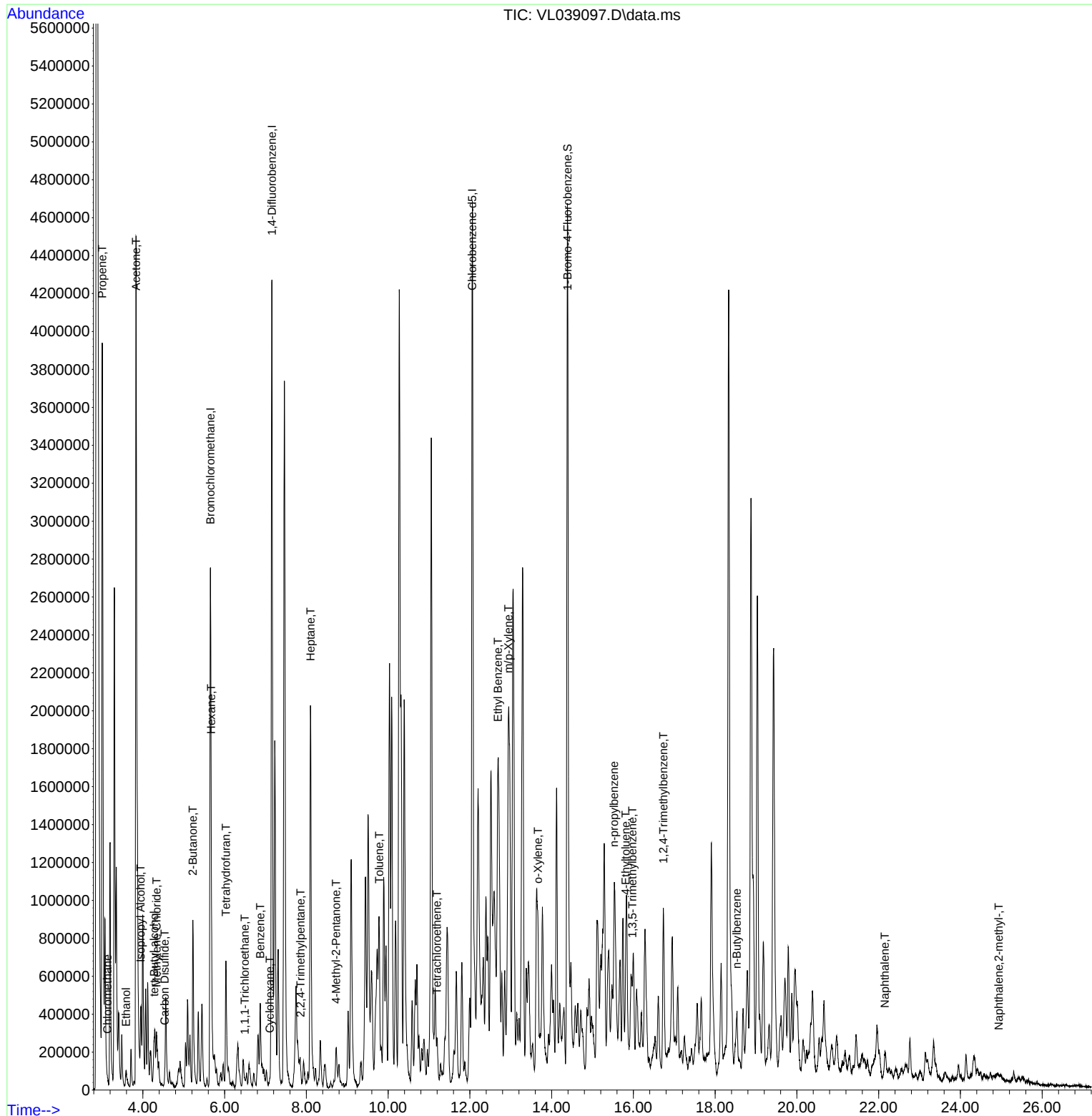
Quant Time: May 24 06:04:11 2022

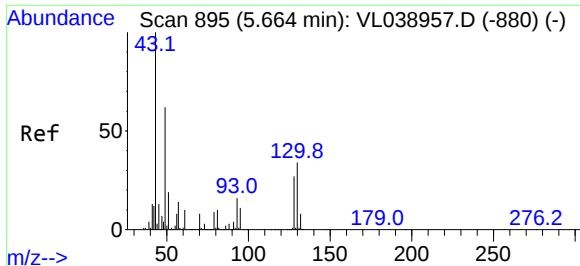
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May

QLast Update : Thu May 05 10:12:15 2022

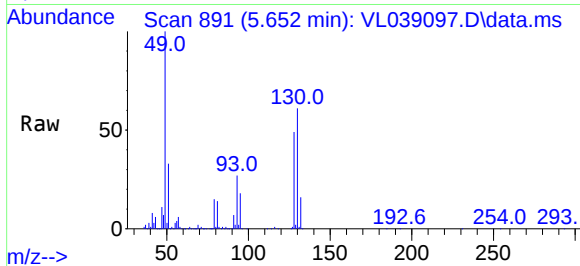
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.652 min Scan# 89
Delta R.T. -0.013 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

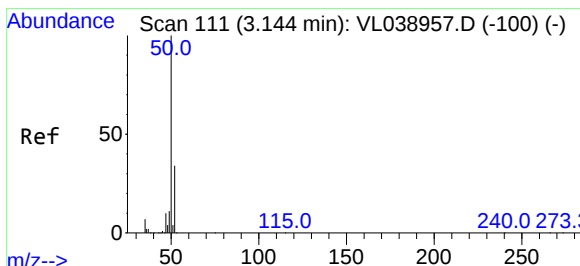
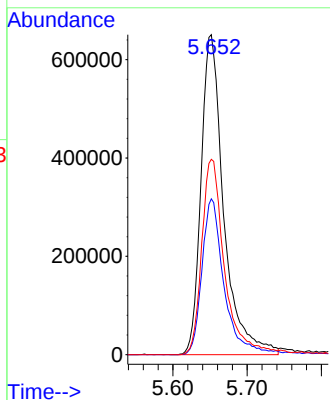
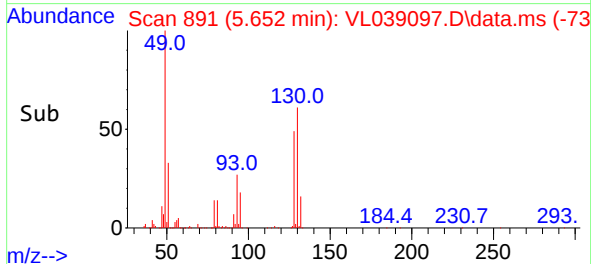
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



Tgt Ion: 49 Resp: 138066
Ion Ratio Lower Upper
49 100
128 48.6 23.3 69.8
130 62.6 29.8 89.3

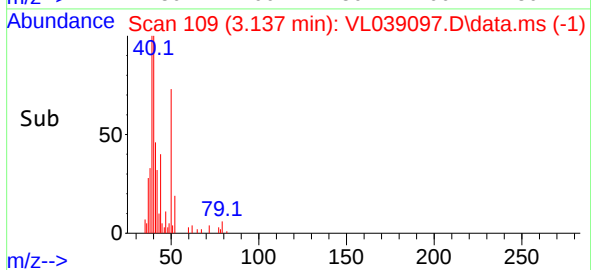
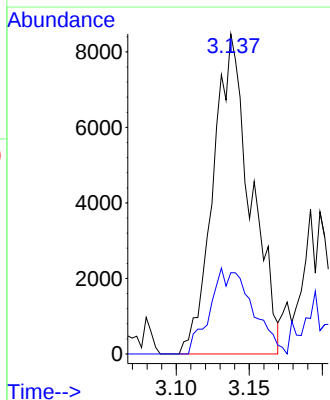
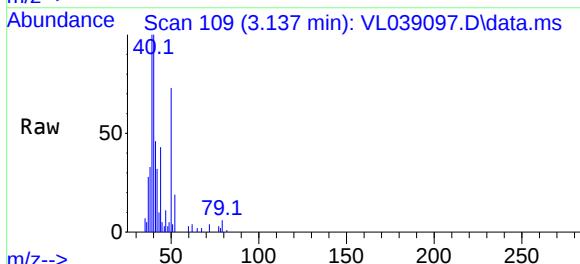
Manual Integrations
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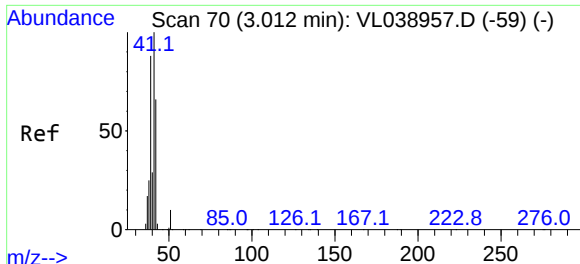
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#4
Chloromethane
Concen: 0.176 ppbv m
RT: 3.137 min Scan# 109
Delta R.T. -0.006 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Tgt Ion: 50 Resp: 15113
Ion Ratio Lower Upper
50 100
52 25.4 27.3 40.9





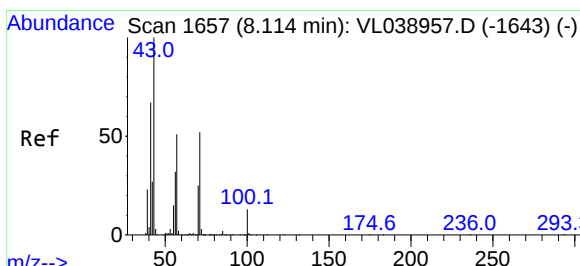
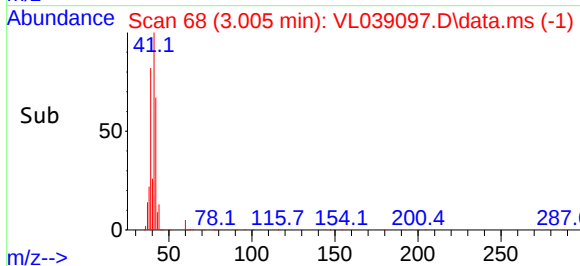
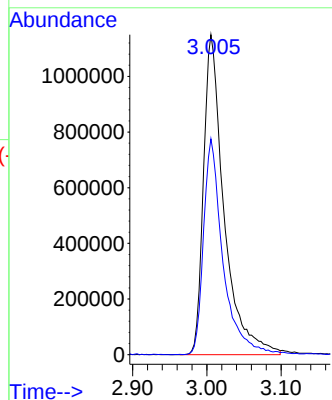
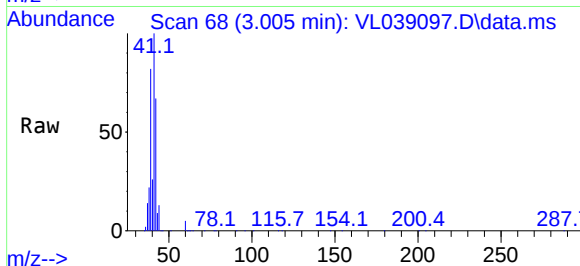
#9
Propene
Concen: 29.479 ppbv
RT: 3.005 min Scan# 61
Delta R.T. -0.006 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

Tgt Ion: 41 Resp: 220555
Ion Ratio Lower Upper
41 100
42 64.5 58.3 87.5

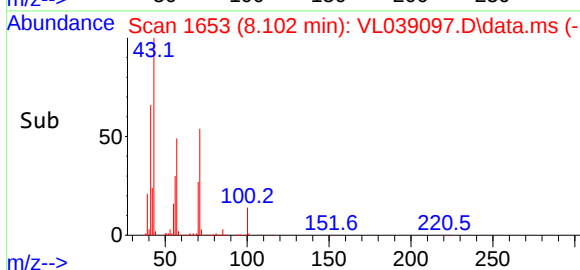
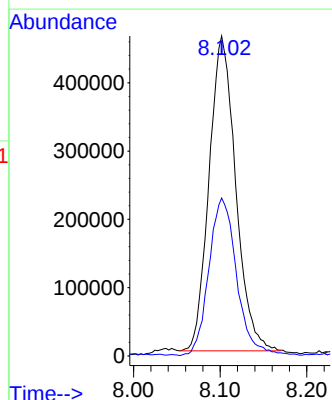
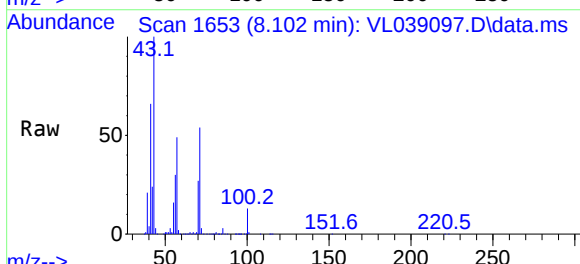
Manual Integrations
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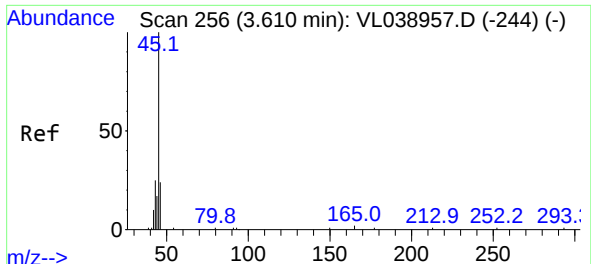
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#10
Heptane
Concen: 5.365 ppbv
RT: 8.102 min Scan# 1653
Delta R.T. -0.013 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

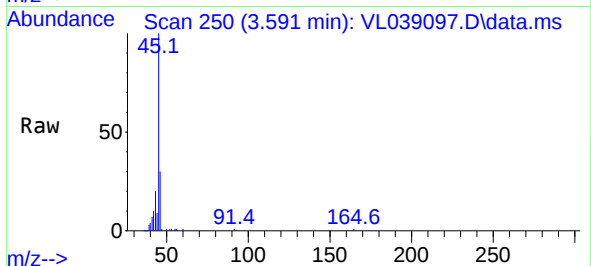
Tgt Ion: 43 Resp: 984712
Ion Ratio Lower Upper
43 100
57 51.8 40.5 60.7





#13
Ethanol
Concen: 20.732 ppbv
RT: 3.591 min Scan# 210
Delta R.T. -0.019 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

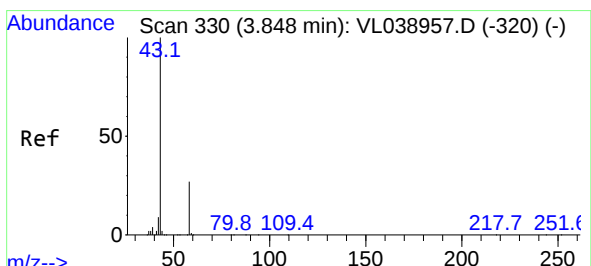
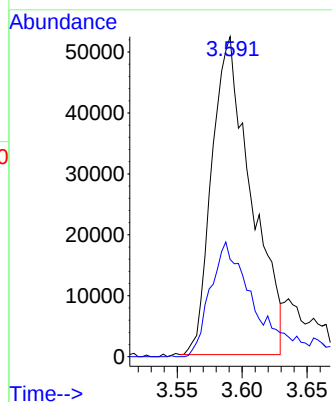
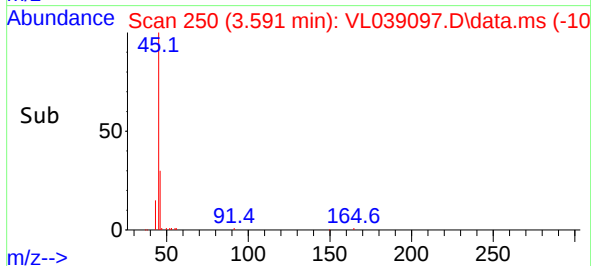
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



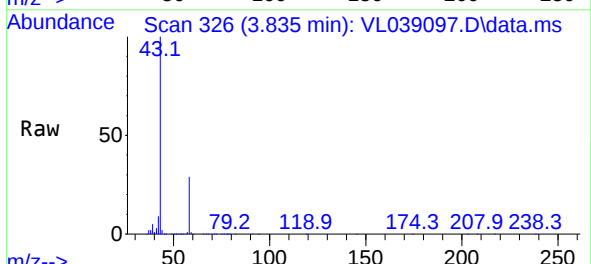
Tgt Ion: 45 Resp: 109769
Ion Ratio Lower Upper
45 100
46 44.7 18.0 72.2

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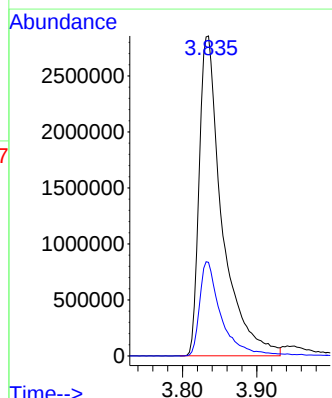
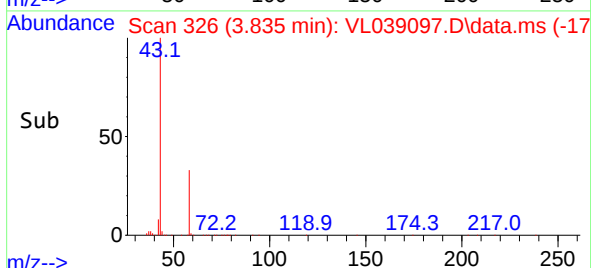
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

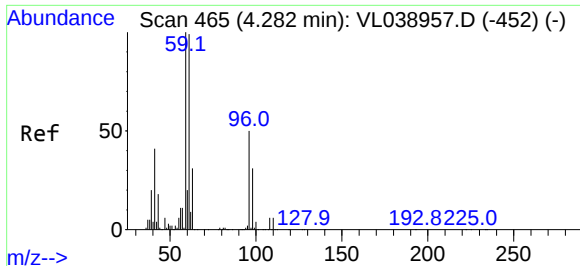


#15
Acetone
Concen: 46.994 ppbv
RT: 3.835 min Scan# 326
Delta R.T. -0.013 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44



Tgt Ion: 43 Resp: 6120421
Ion Ratio Lower Upper
43 100
58 28.5 21.3 31.9





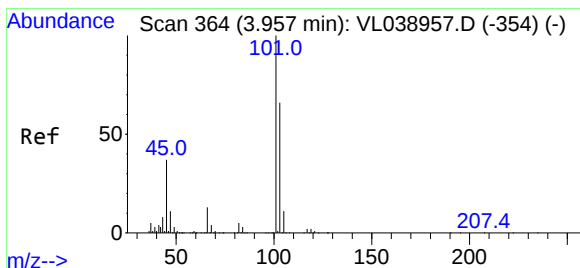
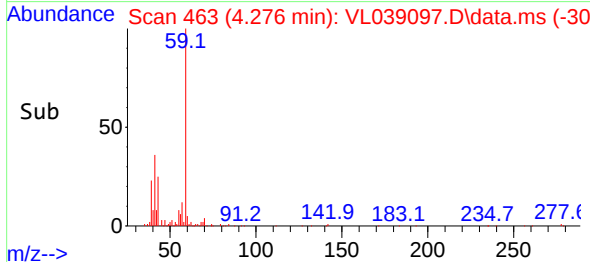
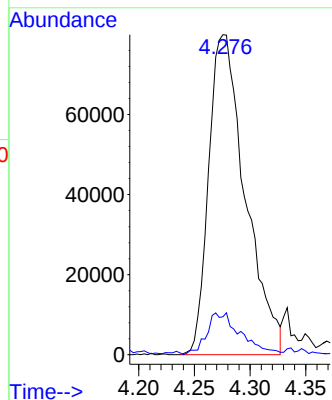
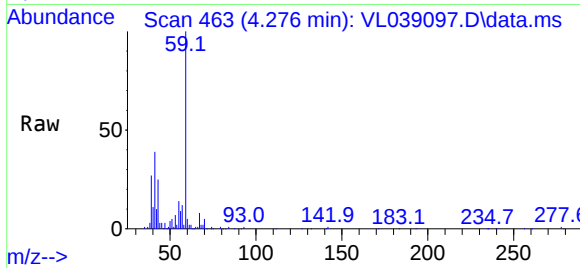
#17
tert-Butyl alcohol
Concen: 1.827 ppbv
RT: 4.276 min Scan# 40
Delta R.T. -0.006 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

Tgt Ion: 59 Resp: 18283
Ion Ratio Lower Upper
59 100
57 12.4 9.2 13.8

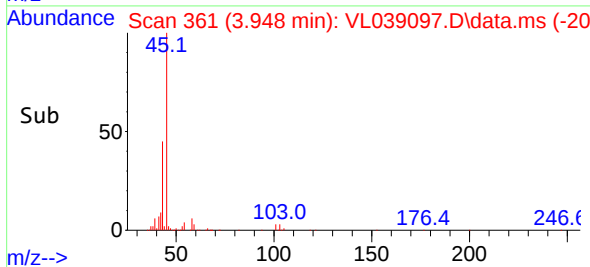
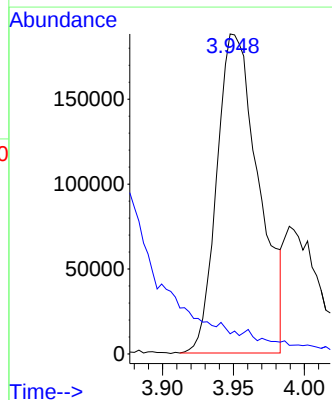
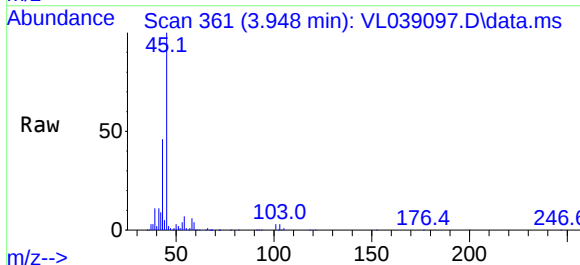
Manual Integrations
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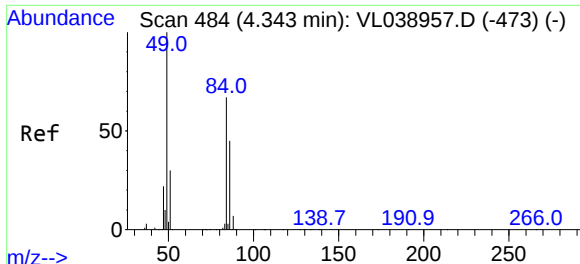
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#19
Isopropyl Alcohol
Concen: 6.228 ppbv
RT: 3.948 min Scan# 361
Delta R.T. -0.010 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

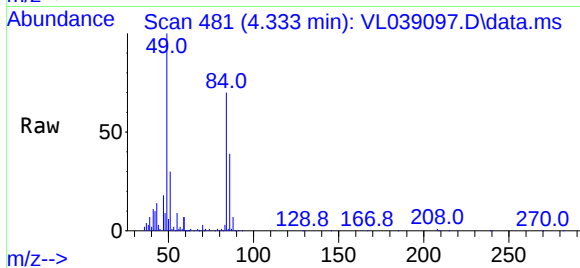
Tgt Ion: 45 Resp: 385651
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#





#20
Methylene Chloride
Concen: 1.792 ppbv
RT: 4.333 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

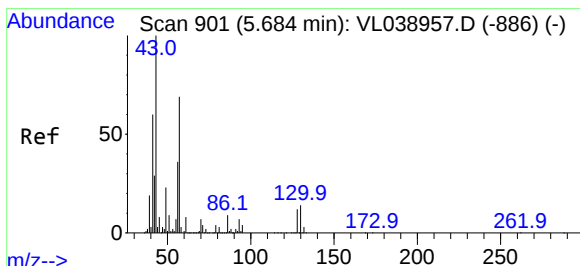
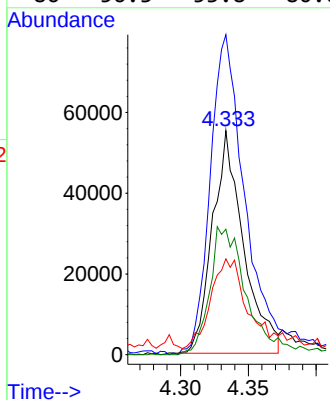
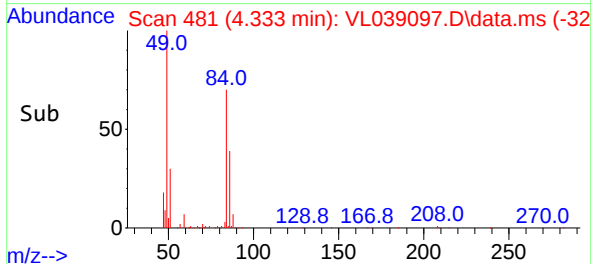
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



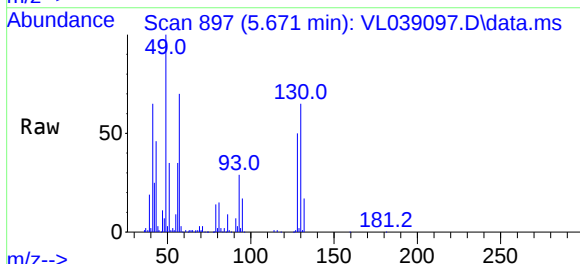
Tgt Ion: 84 Resp: 87978
Ion Ratio Lower Upper
84 100
49 143.7 119.9 179.9
51 39.2 35.7 53.5
86 56.3 53.8 80.6

Manual Integrations
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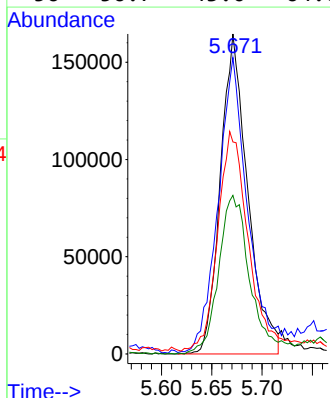
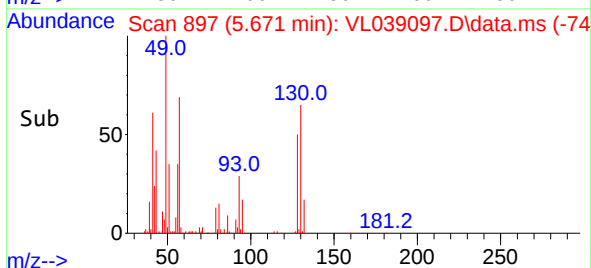
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

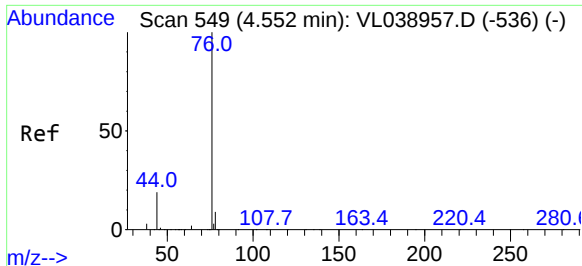


#26
Hexane
Concen: 2.243 ppbv
RT: 5.671 min Scan# 897
Delta R.T. -0.013 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44



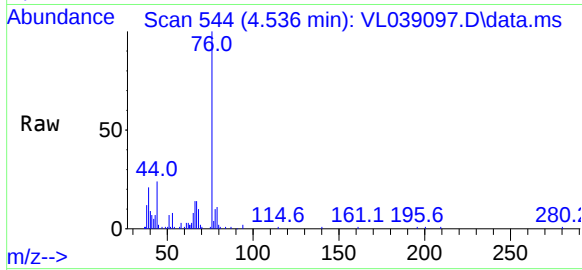
Tgt Ion: 57 Resp: 310635
Ion Ratio Lower Upper
57 100
41 102.5 75.2 112.8
43 84.9 190.8 286.2#
56 56.7 43.0 64.6





#27
Carbon Disulfide
Concen: 0.458 ppbv m
RT: 4.536 min Scan# 549
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

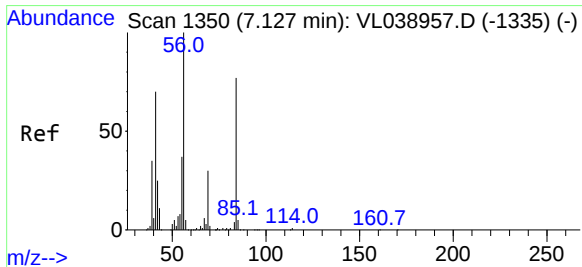
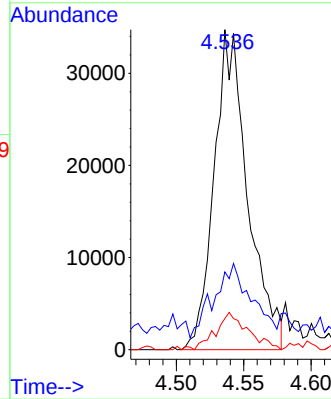
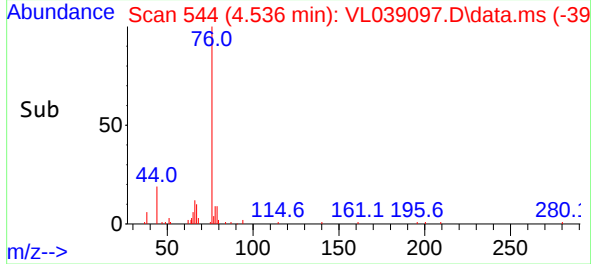
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



Tgt Ion: 76 Resp: 60242
Ion Ratio Lower Upper
76 100
44 29.3 15.3 22.9#
78 13.2 8.2 12.2#

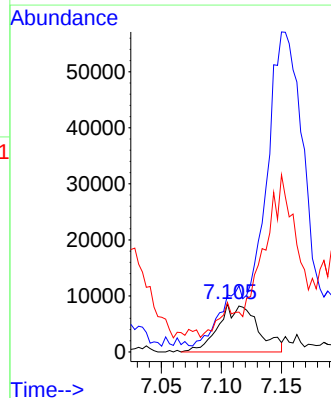
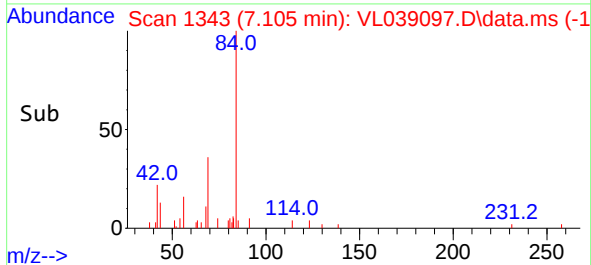
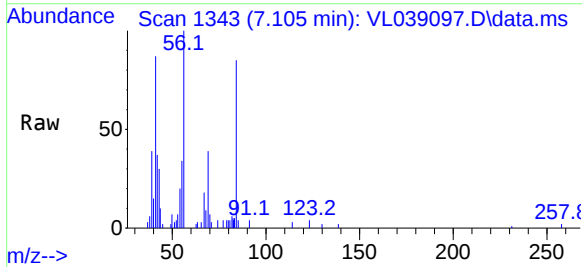
Manual Integrations
APPROVED

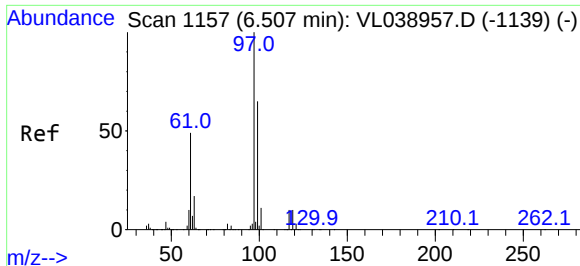
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#30
Cyclohexane
Concen: 0.166 ppbv m
RT: 7.105 min Scan# 1343
Delta R.T. -0.022 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

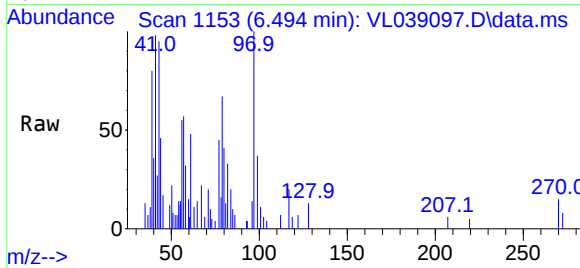
Tgt Ion: 84 Resp: 19242
Ion Ratio Lower Upper
84 100
56 0.0 115.3 172.9#
41 0.0 72.0 108.0#





#32
1,1,1-Trichloroethane
Concen: 0.035 ppbv m
RT: 6.494 min Scan# 1157
Delta R.T. -0.013 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

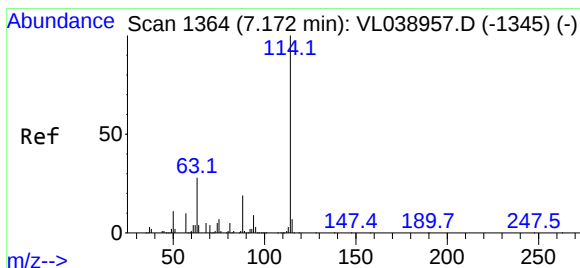
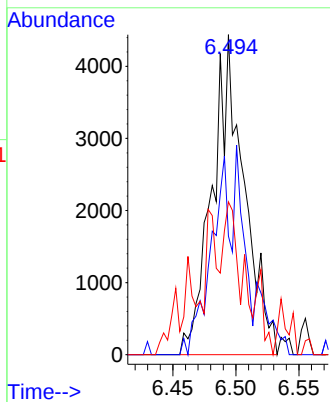
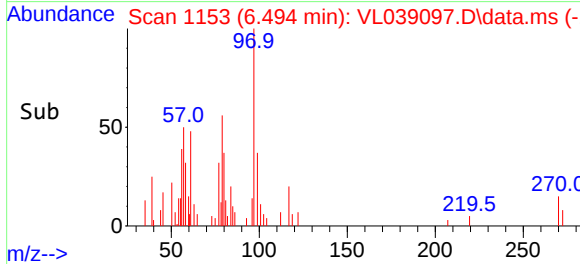
Instrument :
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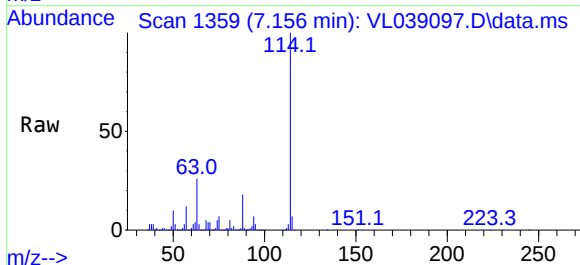
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Ion Ratio Lower Upper
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99 67.2 51.9 77.9
61 72.0 40.9 61.3

Manual Integrations
APPROVED

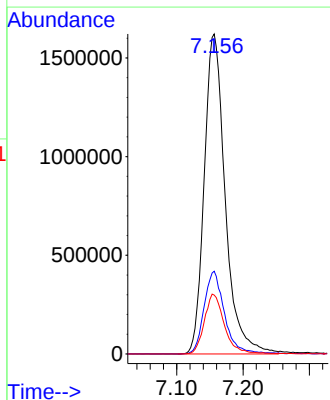
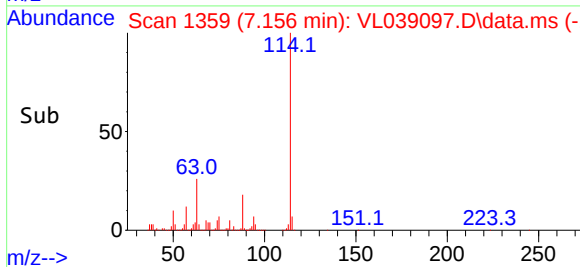
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

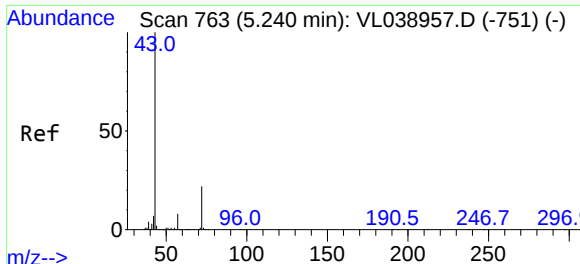


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.156 min Scan# 1359
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44



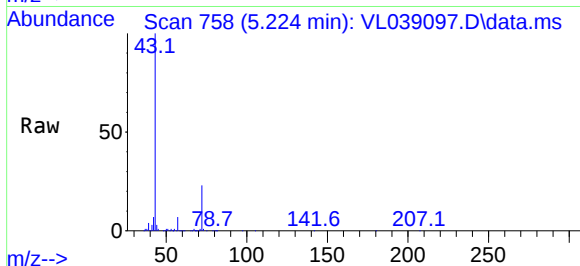
Tgt Ion:114 Resp: 3563723
Ion Ratio Lower Upper
114 100
63 25.2 22.6 33.8
88 18.0 15.4 23.0





#34
2-Butanone
Concen: 6.174 ppbv
RT: 5.224 min Scan# 71
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

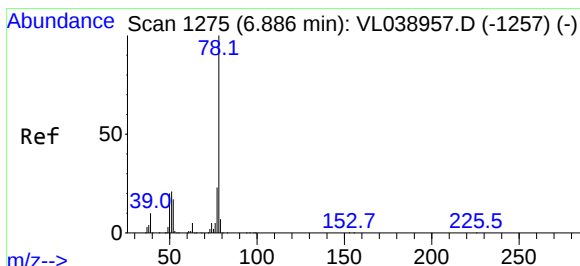
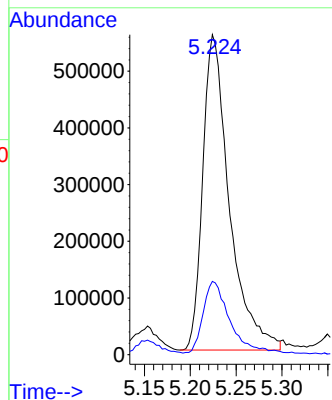
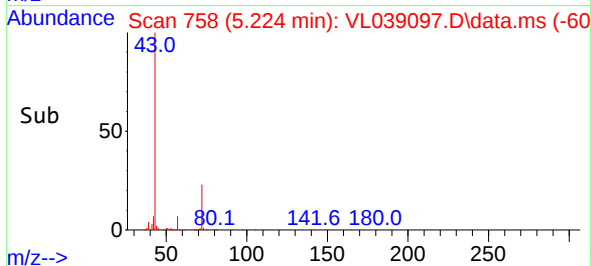
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



Tgt Ion: 43 Resp: 112253
Ion Ratio Lower Upper
43 100
72 23.2 17.8 26.6

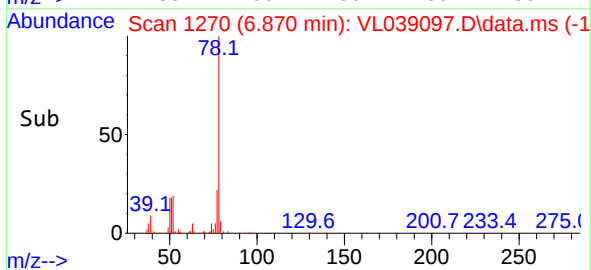
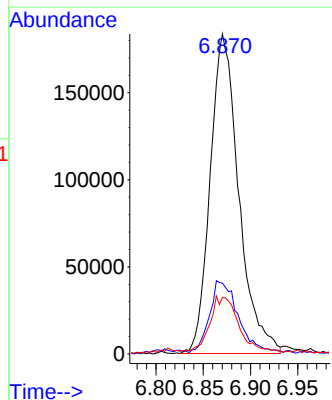
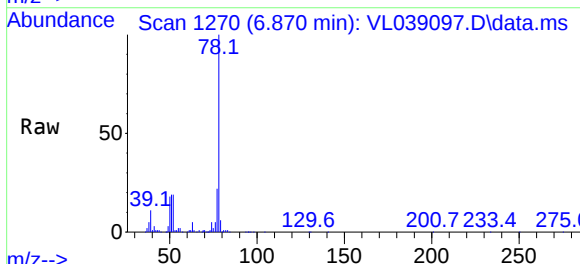
Manual Integrations
APPROVED

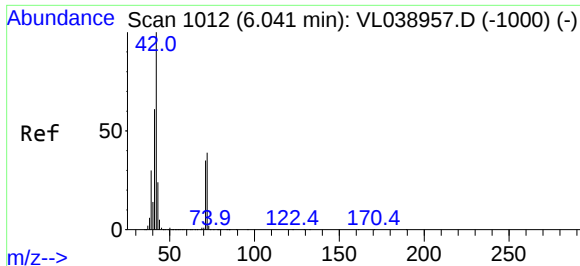
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#36
Benzene
Concen: 1.264 ppbv
RT: 6.870 min Scan# 1270
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

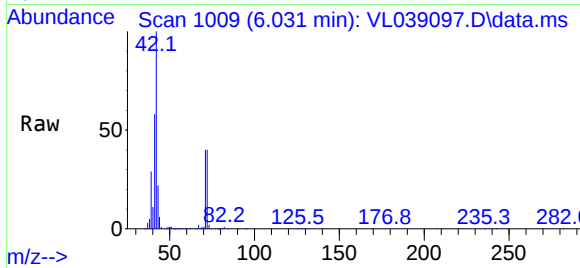
Tgt Ion: 78 Resp: 385554
Ion Ratio Lower Upper
78 100
77 21.2 18.6 28.0
50 16.9 15.6 23.4





#41
Tetrahydrofuran
Concen: 3.630 ppbv
RT: 6.031 min Scan# 1012
Delta R.T. -0.010 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

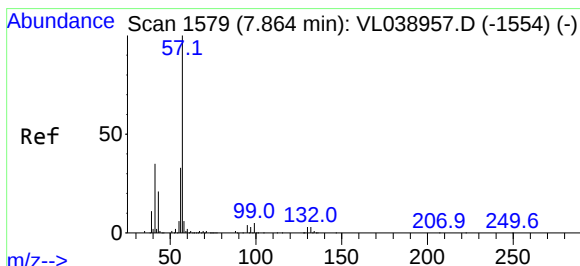
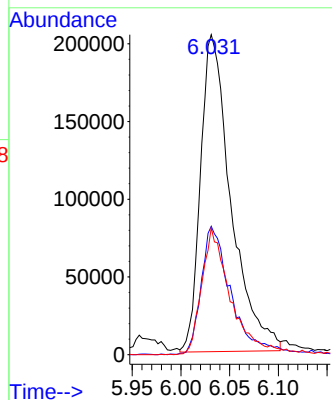
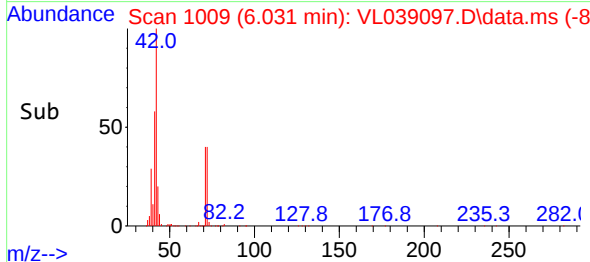
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



Tgt Ion: 42 Resp: 443534
Ion Ratio Lower Upper
42 100
72 40.7 31.8 47.6
71 38.8 30.6 45.8

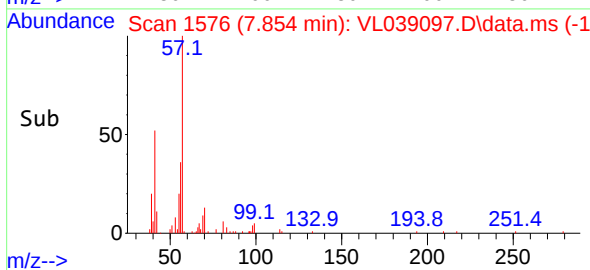
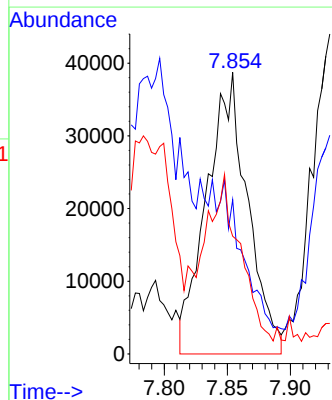
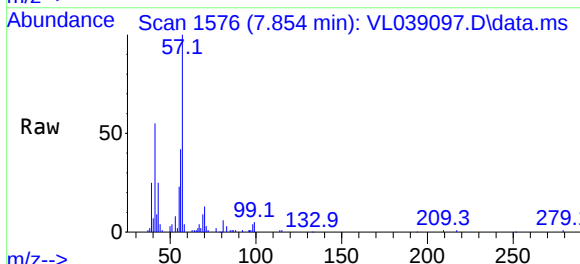
Manual Integrations
APPROVED

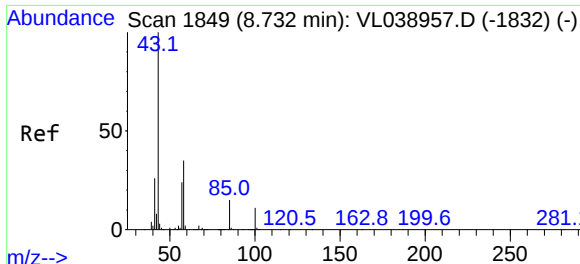
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#44
2,2,4-Trimethylpentane
Concen: 0.163 ppbv m
RT: 7.854 min Scan# 1576
Delta R.T. -0.010 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

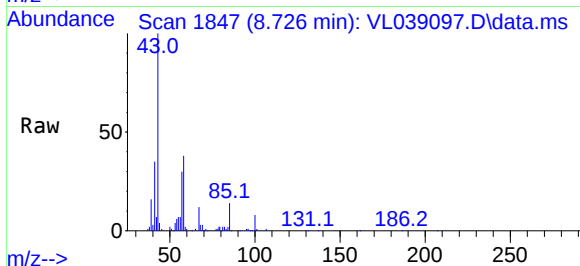
Tgt Ion: 57 Resp: 87454
Ion Ratio Lower Upper
57 100
41 0.0 26.3 39.5#
56 53.7 24.6 37.0#





#50
4-Methyl-2-Pentanone
Concen: 0.490 ppbv
RT: 8.726 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

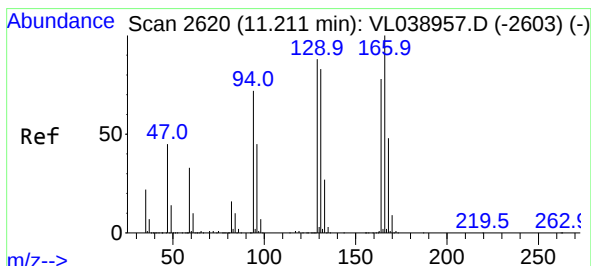
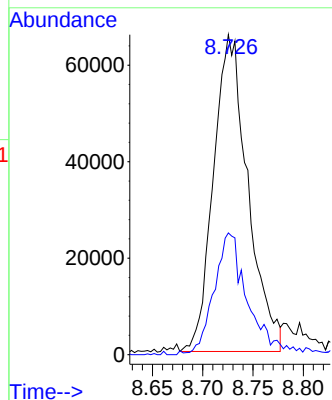
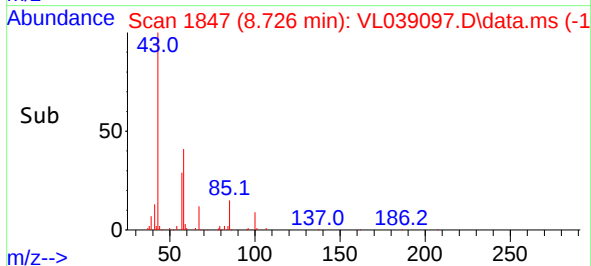
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



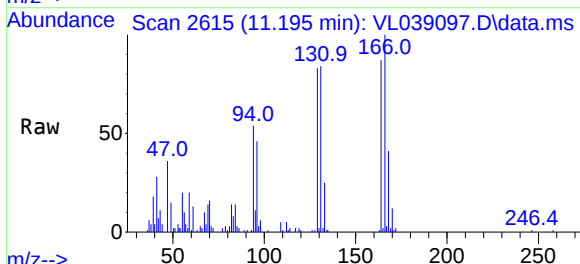
Tgt Ion: 43 Resp: 15616
Ion Ratio Lower Upper
43 100
58 38.5 28.4 42.6

Manual Integrations
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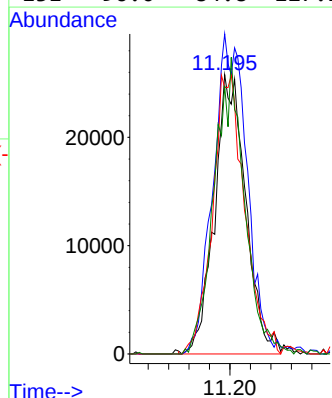
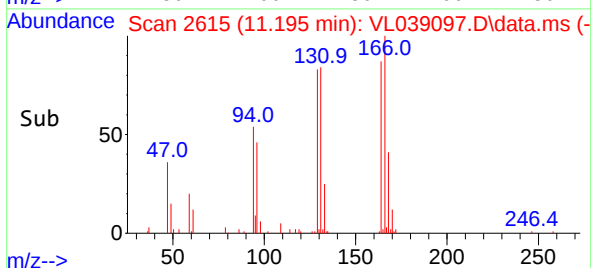
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

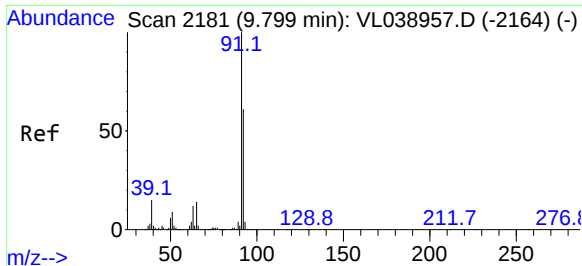


#52
Tetrachloroethene
Concen: 0.501 ppbv m
RT: 11.195 min Scan# 2615
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44



Tgt Ion:164 Resp: 54555
Ion Ratio Lower Upper
164 100
166 114.6 102.5 153.7
129 95.5 90.1 135.1
131 96.0 84.8 127.2





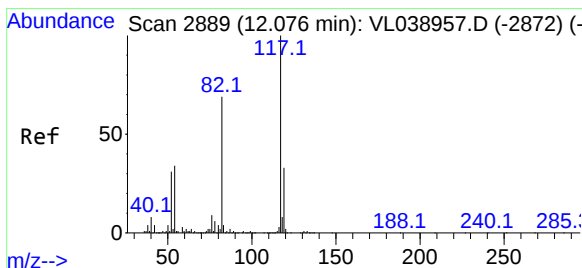
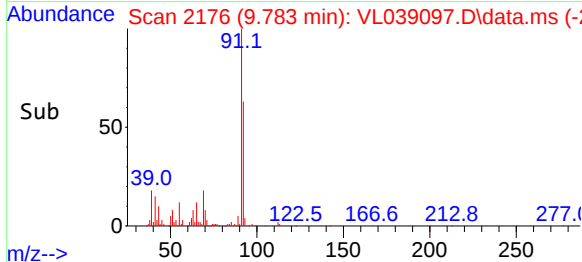
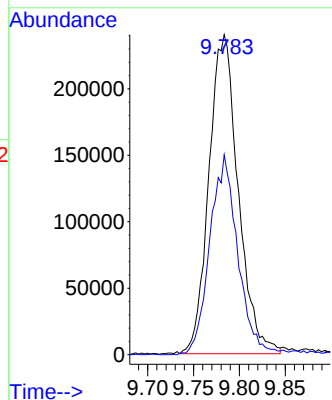
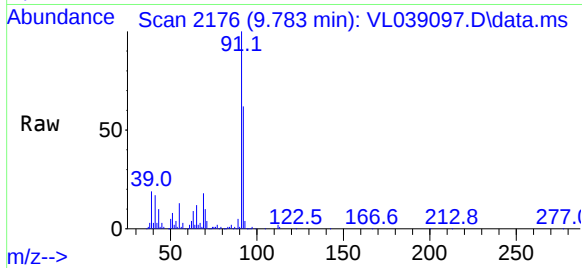
#53
Toluene
Concen: 1.559 ppbv
RT: 9.783 min Scan# 2181
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

Tgt Ion: 91 Resp: 53288
Ion Ratio Lower Upper
91 100
92 61.3 48.2 72.2

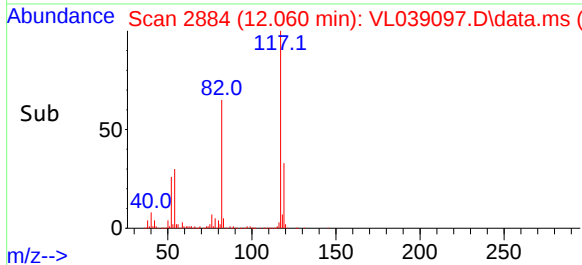
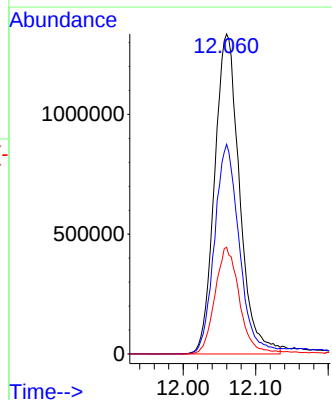
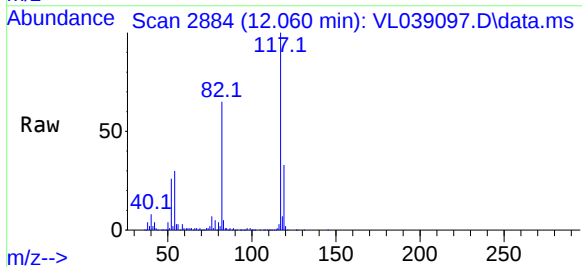
Manual Integrations
APPROVED

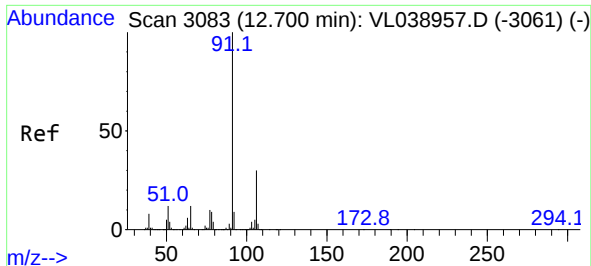
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.060 min Scan# 2884
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Tgt Ion:117 Resp: 3195346
Ion Ratio Lower Upper
117 100
82 68.9 57.0 85.6
119 33.5 27.2 40.8





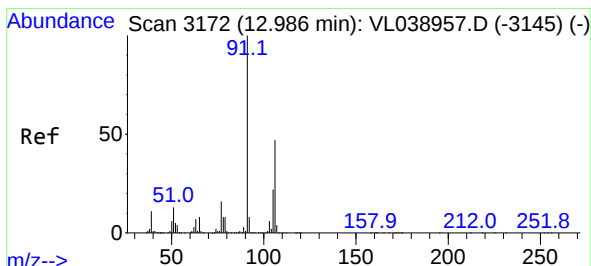
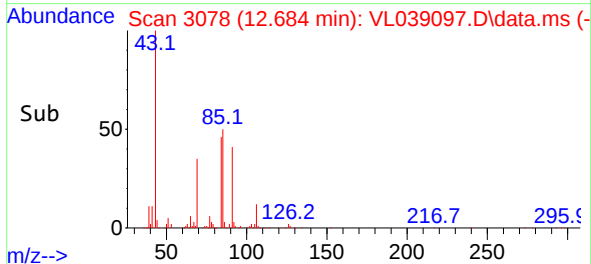
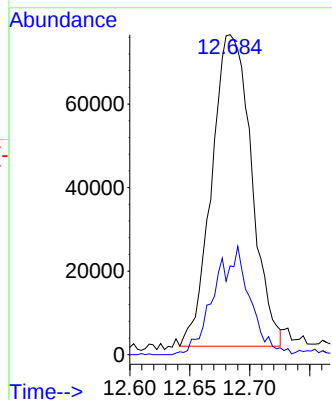
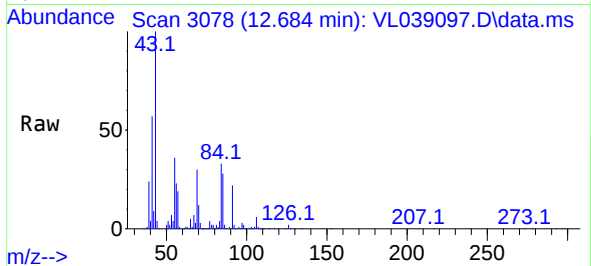
#58
Ethyl Benzene
Concen: 0.373 ppbv
RT: 12.684 min Scan# 3083
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

Tgt Ion: 91 Resp: 171710
Ion Ratio Lower Upper
91 100
106 27.6 24.2 36.4

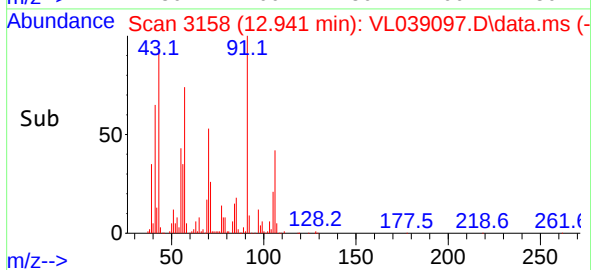
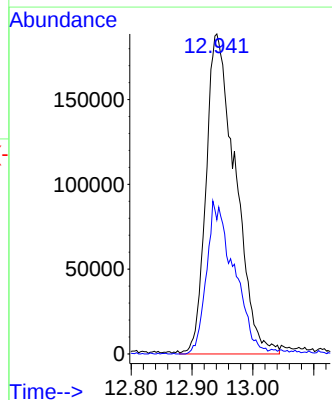
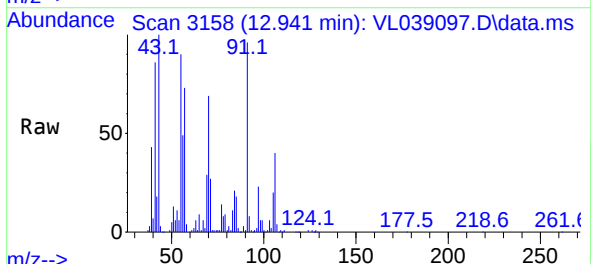
Manual Integrations
APPROVED

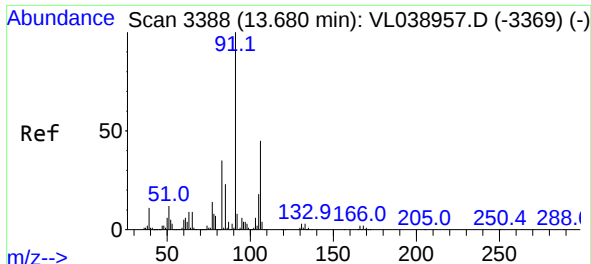
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#59
m/p-Xylene
Concen: 1.611 ppbv m
RT: 12.941 min Scan# 3158
Delta R.T. -0.045 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Tgt Ion: 91 Resp: 632361
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#





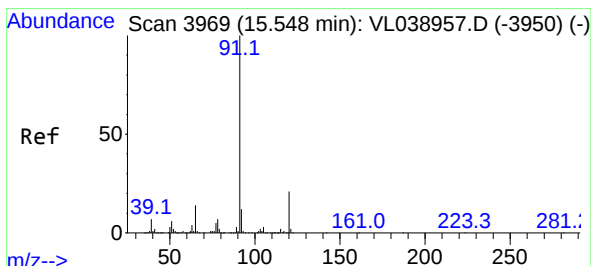
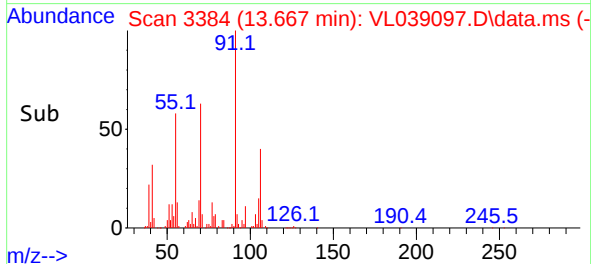
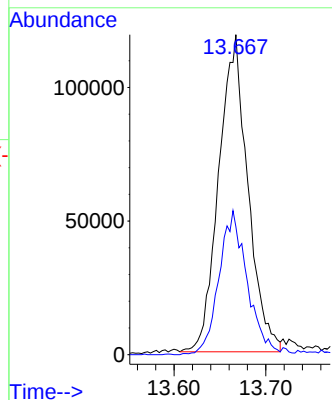
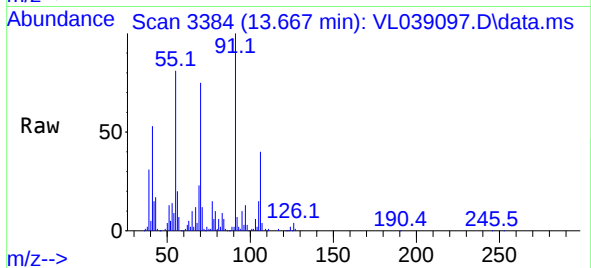
#60
o-Xylene
Concen: 0.707 ppbv
RT: 13.667 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

Tgt Ion: 91 Resp: 261319
Ion Ratio Lower Upper
91 100
106 44.9 22.2 66.6

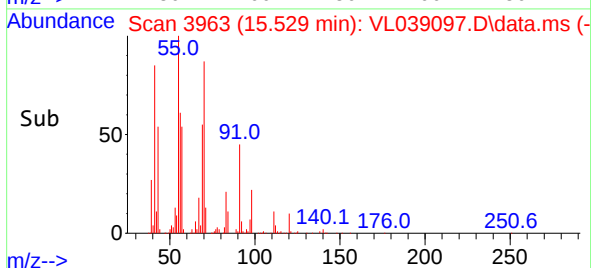
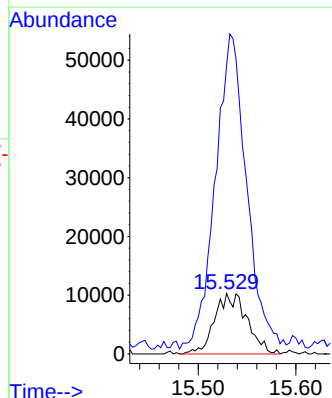
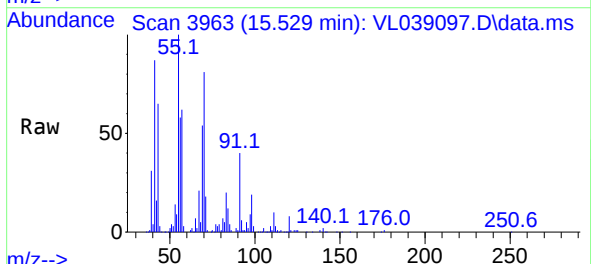
Manual Integrations
APPROVED

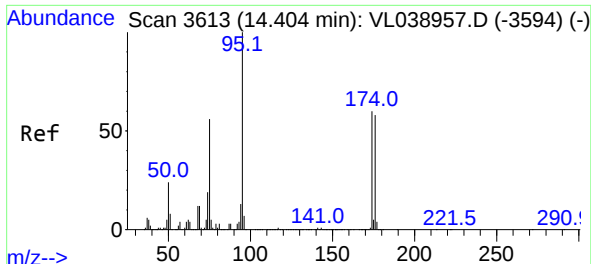
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#64
n-propylbenzene
Concen: 0.182 ppbv m
RT: 15.529 min Scan# 3963
Delta R.T. -0.019 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Tgt Ion:120 Resp: 23752
Ion Ratio Lower Upper
120 100
91 505.7 400.6 601.0





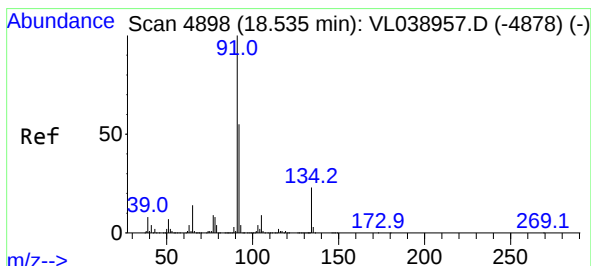
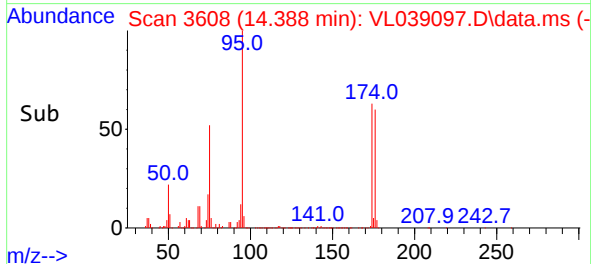
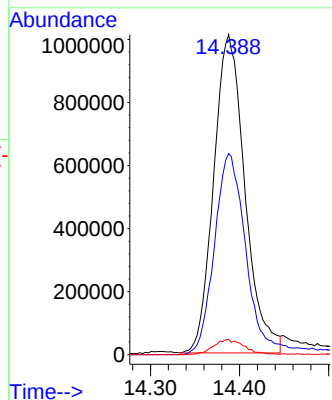
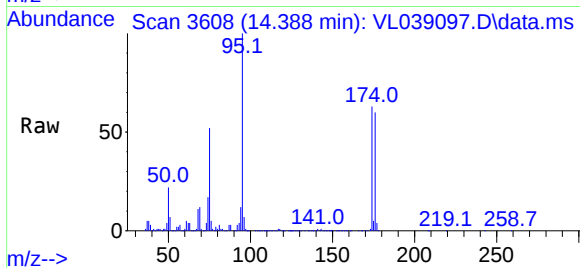
#68
1-Bromo-4-Fluorobenzene
Concen: 9.716 ppbv
RT: 14.388 min Scan# 30
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

Tgt Ion: 95 Resp: 245864
Ion Ratio Lower Upper
95 100
174 67.5 50.8 76.2
175 4.8 3.8 5.6

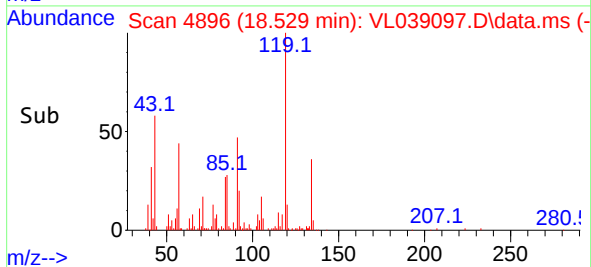
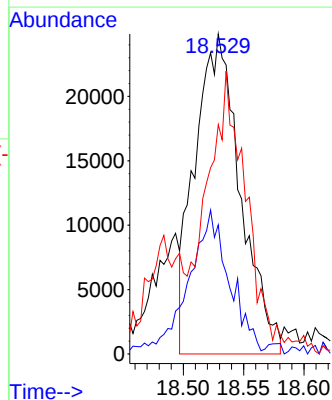
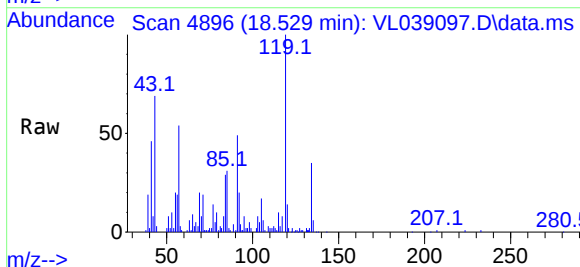
Manual Integrations
APPROVED

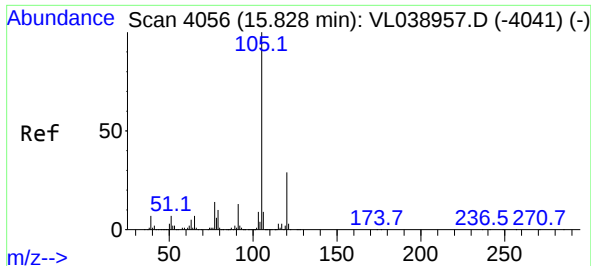
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#70
n-Butylbenzene
Concen: 0.112 ppbv m
RT: 18.529 min Scan# 4896
Delta R.T. -0.006 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Tgt Ion: 91 Resp: 65077
Ion Ratio Lower Upper
91 100
92 43.3 43.1 64.7
134 0.0 17.0 25.4#





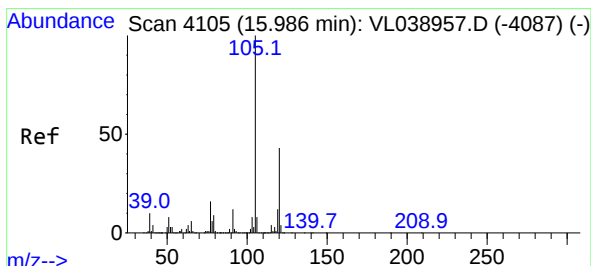
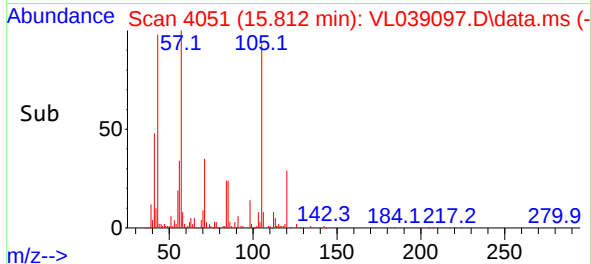
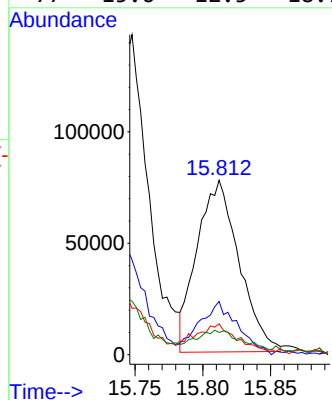
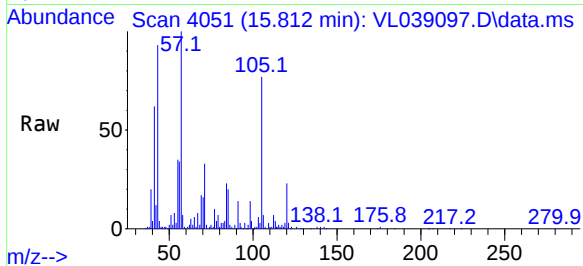
#72
4-Ethyltoluene
Concen: 0.394 ppbv
RT: 15.812 min Scan# 4051
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
VP-1DL

Tgt Ion:	105	Resp:	16603
Ion Ratio	Lower	Upper	
105	100		
120	29.8	23.4	35.0
91	16.4	10.6	16.0
77	15.6	12.5	18.7

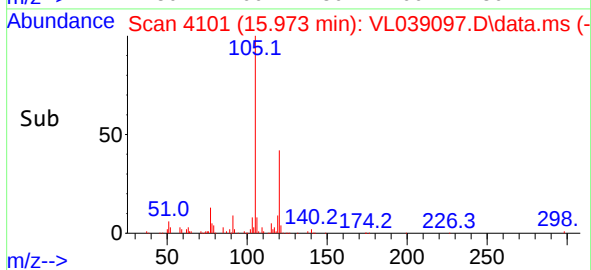
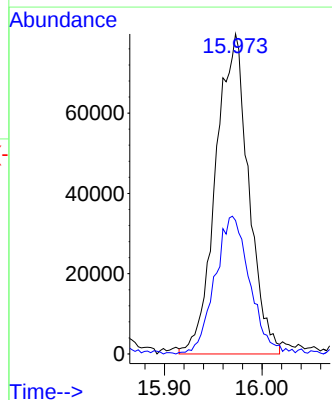
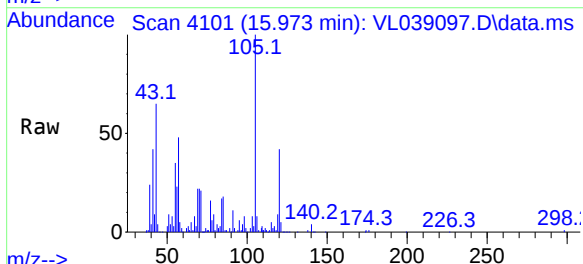
Manual Integrations
APPROVED

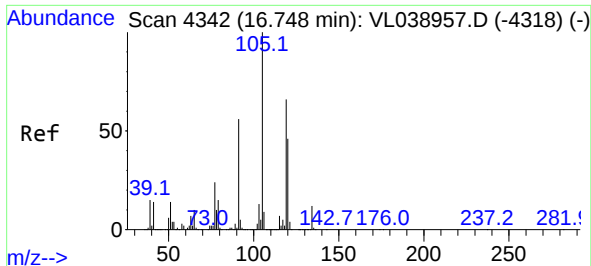
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#73
1,3,5-Trimethylbenzene
Concen: 0.493 ppbv m
RT: 15.973 min Scan# 4101
Delta R.T. -0.013 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

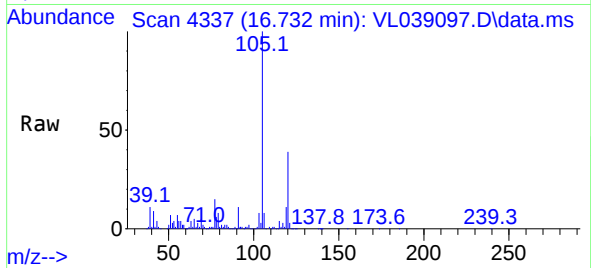
Tgt Ion:	105	Resp:	186886
Ion Ratio	Lower	Upper	
105	100		
120	41.7	34.4	51.6





#74
1,2,4-Trimethylbenzene
Concen: 1.555 ppbv
RT: 16.732 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

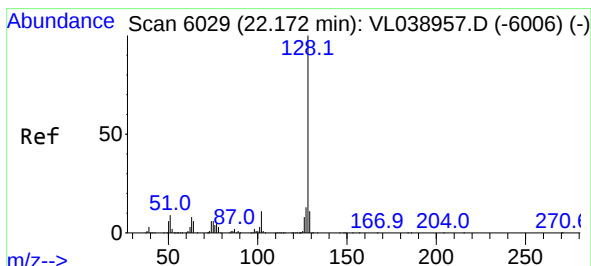
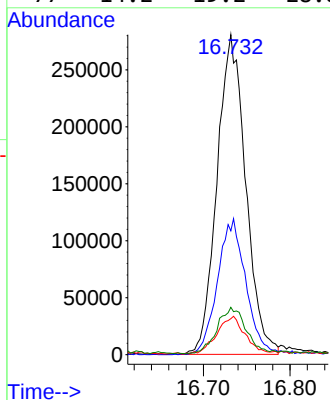
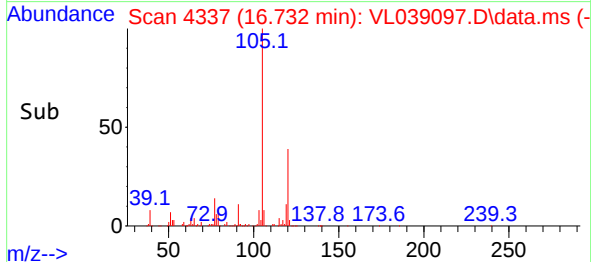
Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



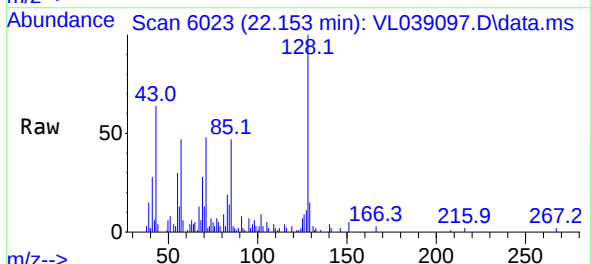
Tgt Ion:105 Resp: 64541
Ion Ratio Lower Upper
105 100
120 38.8 36.9 55.3
91 10.7 45.0 67.4
77 14.2 19.2 28.8#

Manual Integrations
APPROVED

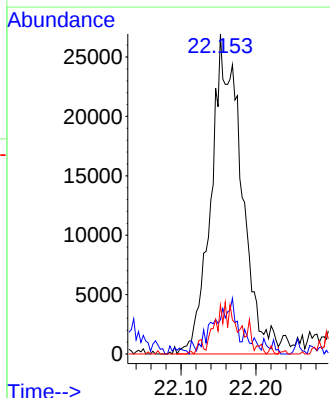
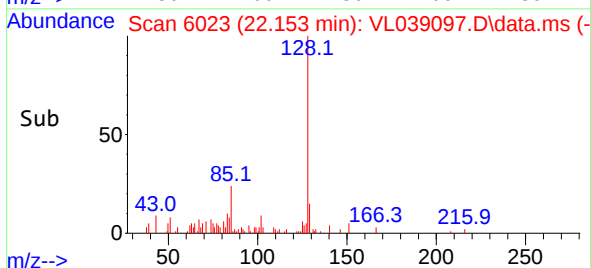
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

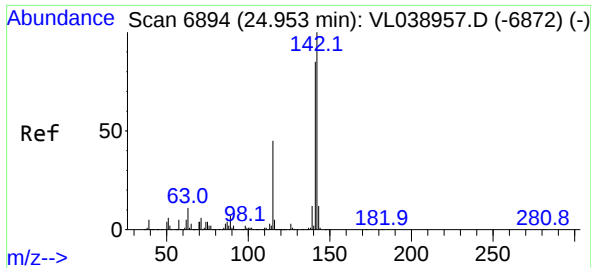


#79
Naphthalene
Concen: 0.225 ppbv m
RT: 22.153 min Scan# 6023
Delta R.T. -0.019 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44



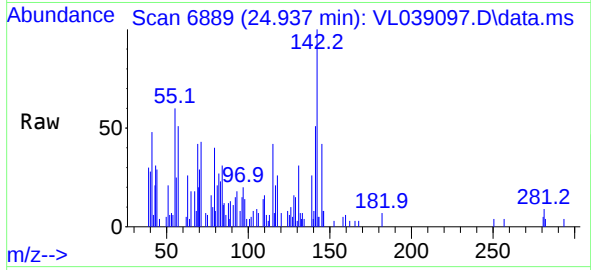
Tgt Ion:128 Resp: 75710
Ion Ratio Lower Upper
128 100
127 10.7 10.2 15.2
129 15.3 8.9 13.3#





#80
Naphthalene, 2-methyl-
Concen: 0.112 ppbv m
RT: 24.937 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL039097.D
Acq: 23 May 2022 23:44

Instrument :
MSVOA_L
ClientSampleId :
VP-1DL



Tgt Ion: 142 Resp: 1138

Ion	Ratio	Lower	Upper
142	100		
141	102.5	70.8	106.2
115	48.1	35.1	52.7

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 05/25/2022
Supervised By : Mahesh Dadoda 05/26/2022

