

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040522\
 Data File : VL038826.D
 Acq On : 6 Apr 2022 9:45
 Operator : SY/AP
 Sample : N2159-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18D

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/07/2022
 Supervised By : Mahesh Dadoda 04/07/2022

Quant Time: Apr 07 03:11:46 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Apr 06 06:12:53 2022

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

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

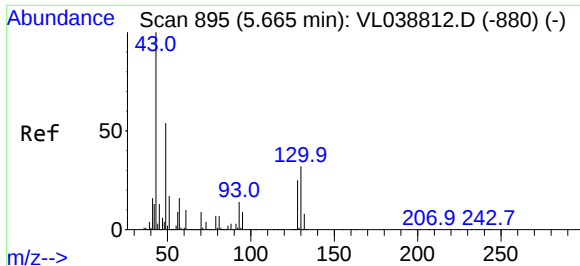
Internal Standards						
1) Bromochloromethane	5.680	49	1378162	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	7.188	114	3656875	10.000	ppbv	0.02
55) Chlorobenzene-d5	12.095	117	3159360	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.423	95	2553863	10.657	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.063	85	56569m	0.289	ppbv	
3) Chlorodifluoromethane	2.999	51	71722m	0.426	ppbv	
4) Chloromethane	3.156	50	50912	0.585	ppbv #	80
9) Propene	3.034	41	56244	0.632	ppbv #	81
10) Heptane	8.137	43	45703	0.204	ppbv	86
11) Trichlorofluoromethane	3.970	101	39040m	0.249	ppbv	
13) Ethanol	3.613	45	7193269	1330.142	ppbv #	100
15) Acetone	3.867	43	423564m	3.087	ppbv	
17) tert-Butyl alcohol	4.311	59	34687m	0.282	ppbv	
19) Isopropyl Alcohol	3.983	45	397692	5.671	ppbv #	100
20) Methylene Chloride	4.359	84	117662	2.365	ppbv	94
26) Hexane	5.697	57	427022	2.695	ppbv #	43
27) Carbon Disulfide	4.565	76	101323	0.697	ppbv #	81
29) Chloroform	5.761	83	167575	0.756	ppbv	93
30) Cyclohexane	7.137	84	22531m	0.161	ppbv	
34) 2-Butanone	5.253	43	45054m	0.312	ppbv	
35) Carbon Tetrachloride	7.031	117	18568m	0.085	ppbv	
36) Benzene	6.905	78	82830	0.249	ppbv #	94
38) Trichloroethene	7.844	130	202207m	1.481	ppbv	
44) 2,2,4-Trimethylpentane	7.886	57	111545	0.198	ppbv #	79
52) Tetrachloroethene	11.227	164	14152m	0.122	ppbv	
53) Toluene	9.819	91	683770	1.780	ppbv	98
58) Ethyl Benzene	12.719	91	75286m	0.159	ppbv	
59) m/p-Xylene	12.976	91	211730m	0.534	ppbv	
60) o-Xylene	13.703	91	78375m	0.211	ppbv	
69) p-Isopropyltoluene	17.664	119	61109m	0.107	ppbv	
74) 1,2,4-Trimethylbenzene	16.770	105	64875m	0.154	ppbv	

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

Manual Integrations

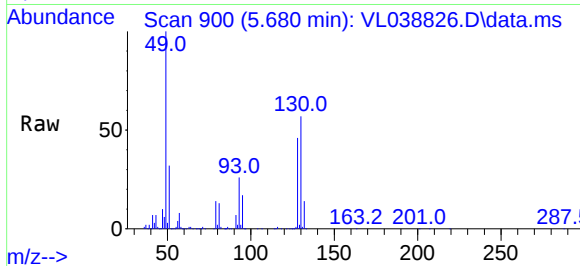
Quant Time: Apr 07 03:11:46 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.680 min Scan# 90
Delta R.T. 0.016 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

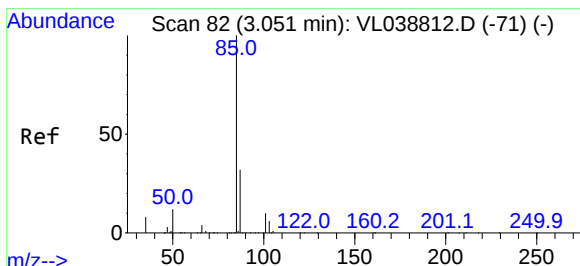
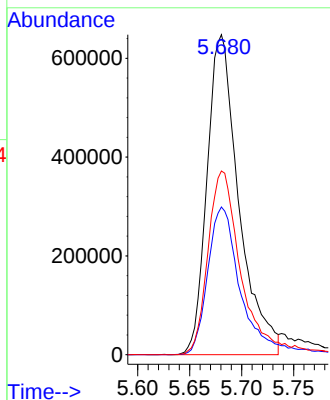
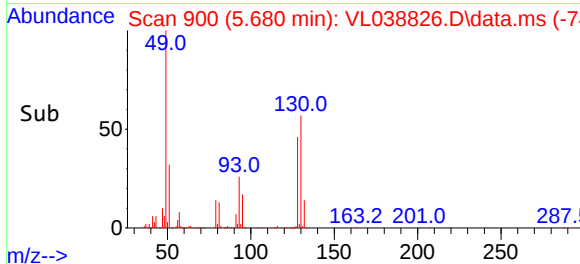
Instrument :
MSVOA_L
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IA-18D



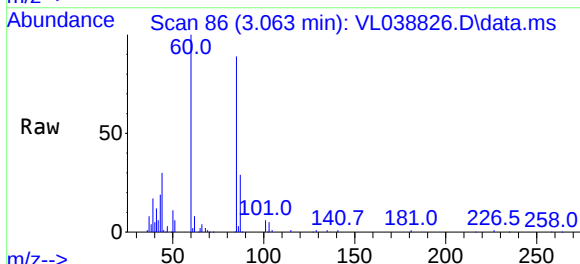
Tgt Ion: 49 Resp: 137816
Ion Ratio Lower Upper
49 100
128 49.7 24.1 72.3
130 61.8 30.9 92.8

Manual Integrations
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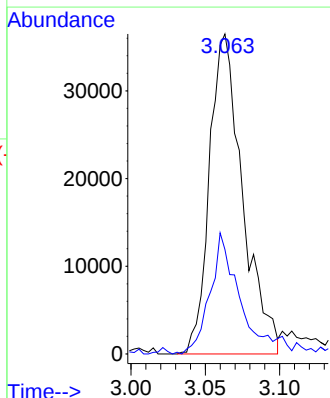
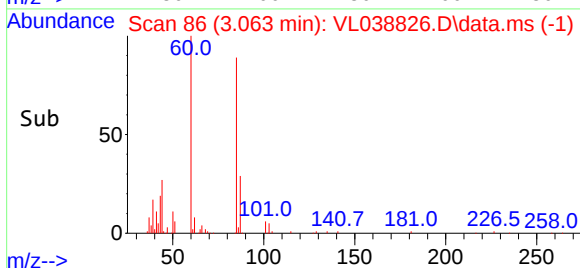
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

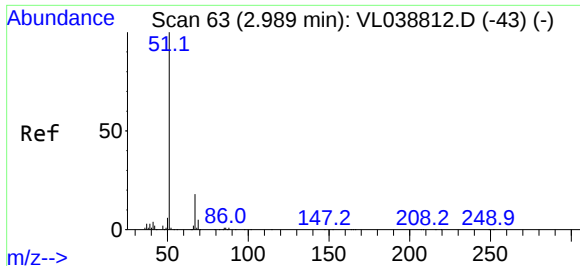


#2
Dichlorodifluoromethane
Concen: 0.289 ppbv m
RT: 3.063 min Scan# 86
Delta R.T. 0.013 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45



Tgt Ion: 85 Resp: 56569
Ion Ratio Lower Upper
85 100
87 32.6 25.9 38.9





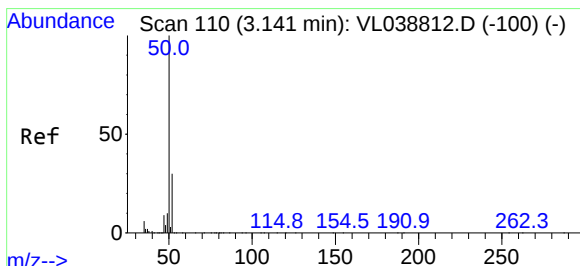
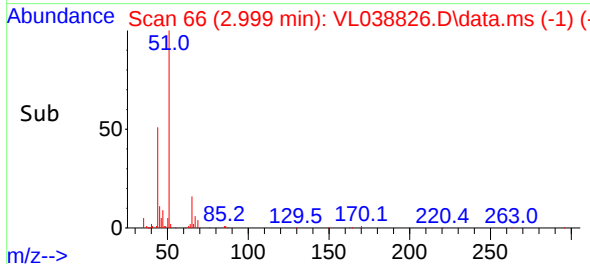
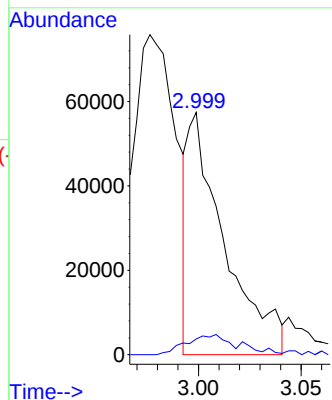
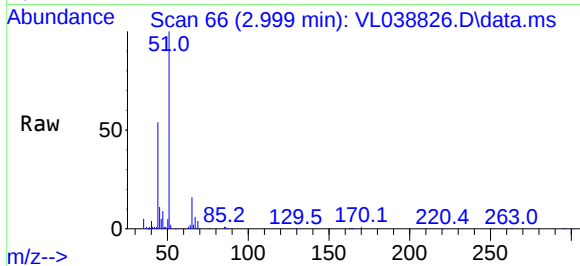
#3
Chlorodifluoromethane
Concen: 0.426 ppbv m
RT: 2.999 min Scan# 60
Delta R.T. 0.009 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

Instrument :
MSVOA_L
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Tgt Ion: 51 Resp: 7172
Ion Ratio Lower Upper
51 100
67 12.1 13.4 20.0

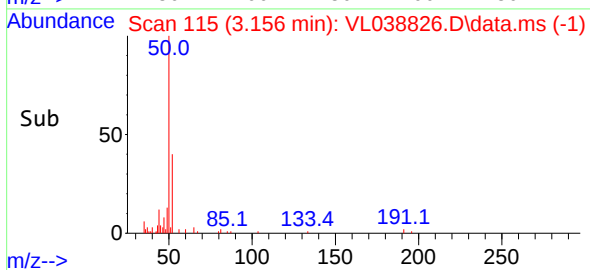
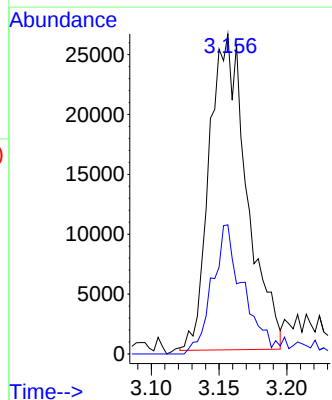
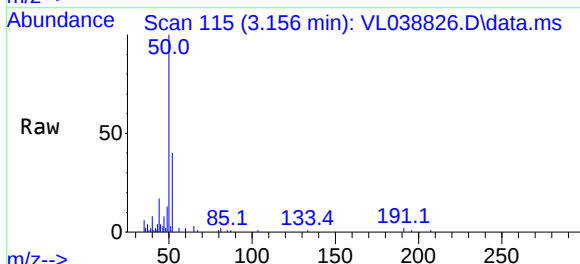
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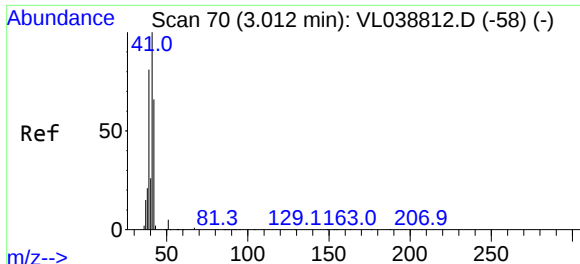
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#4
Chloromethane
Concen: 0.585 ppbv
RT: 3.156 min Scan# 115
Delta R.T. 0.016 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

Tgt Ion: 50 Resp: 50912
Ion Ratio Lower Upper
50 100
52 41.2 24.3 36.5





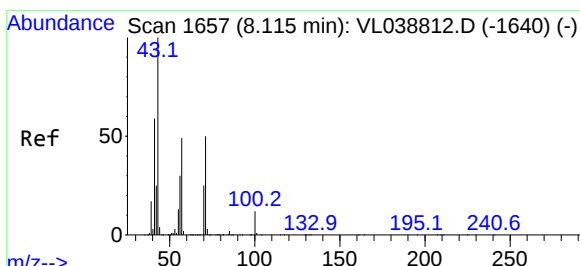
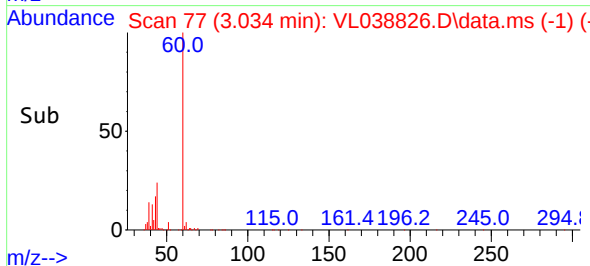
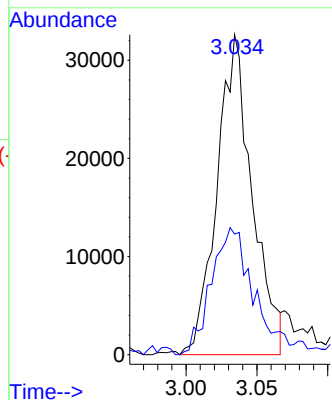
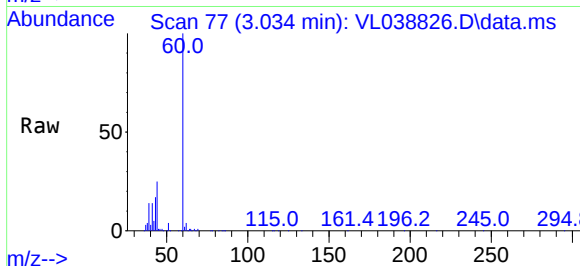
#9
Propene
Concen: 0.632 ppbv
RT: 3.034 min Scan# 71
Delta R.T. 0.022 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

Instrument :
MSVOA_L
ClientSampleId :
IA-18D

Tgt Ion: 41 Resp: 56244
Ion Ratio Lower Upper
41 100
42 52.1 54.2 81.4

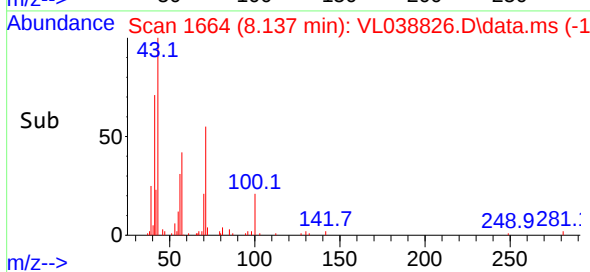
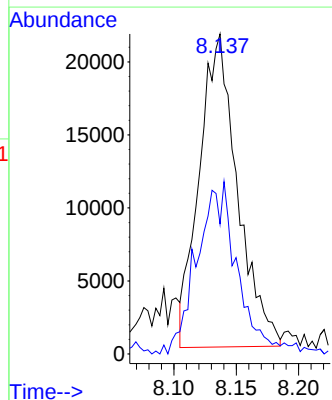
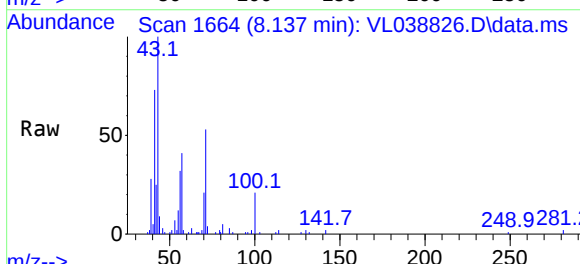
Manual Integrations
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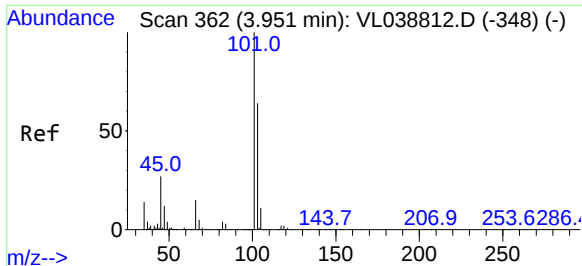
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#10
Heptane
Concen: 0.204 ppbv
RT: 8.137 min Scan# 1664
Delta R.T. 0.022 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

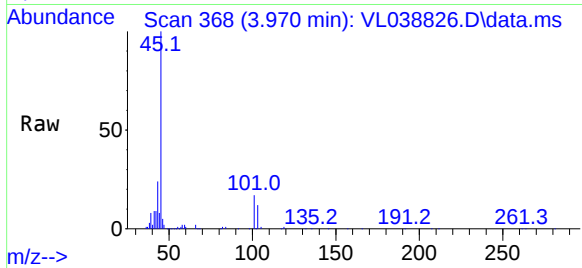
Tgt Ion: 43 Resp: 45703
Ion Ratio Lower Upper
43 100
57 58.6 39.3 58.9





#11
Trichlorofluoromethane
Concen: 0.249 ppbv m
RT: 3.970 min Scan# 30
Delta R.T. 0.019 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

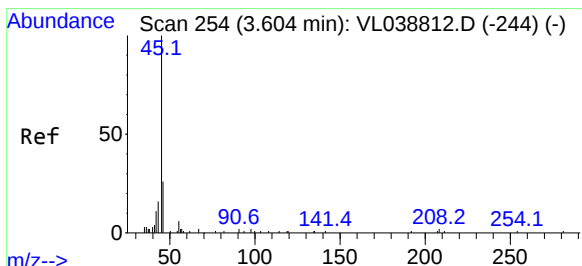
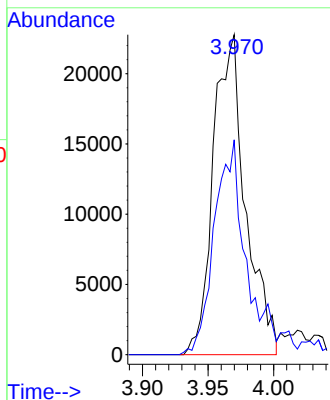
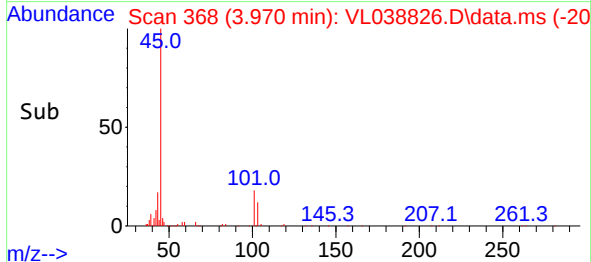
Instrument :
MSVOA_L
ClientSampleId :
IA-18D



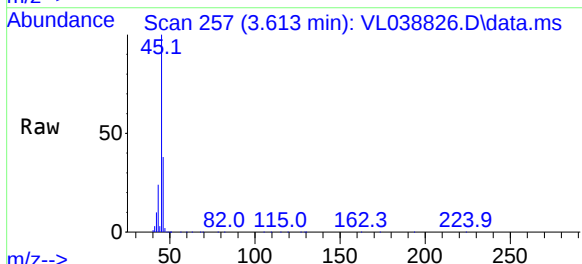
Tgt Ion:101 Resp: 39040
Ion Ratio Lower Upper
101 100
103 67.1 51.4 77.0

Manual Integrations
APPROVED

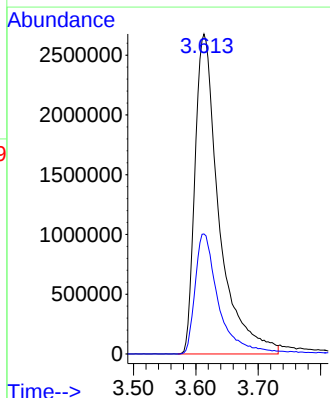
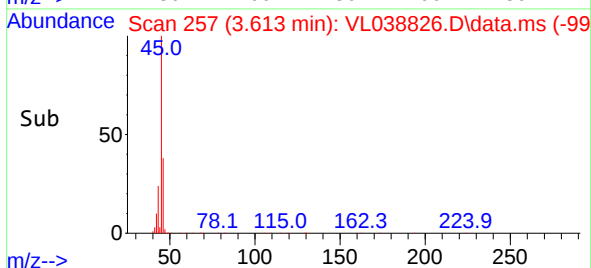
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

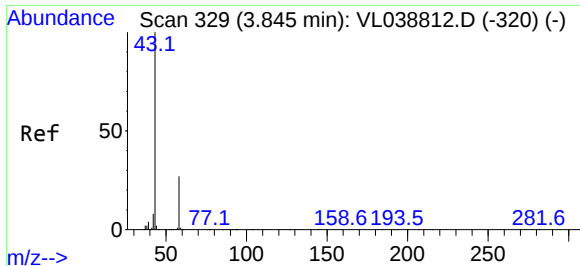


#13
Ethanol
Concen: 1330.142 ppbv
RT: 3.613 min Scan# 257
Delta R.T. 0.009 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45



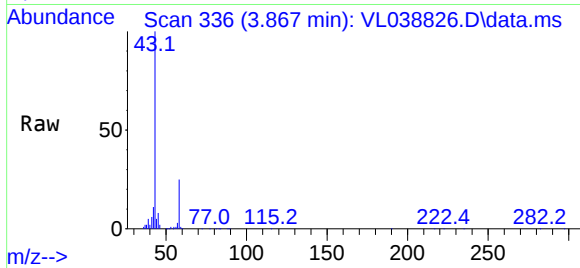
Tgt Ion: 45 Resp: 7193269
Ion Ratio Lower Upper
45 100
46 37.5 0.0 0.0#





#15
Acetone
Concen: 3.087 ppbv m
RT: 3.867 min Scan# 31
Delta R.T. 0.022 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

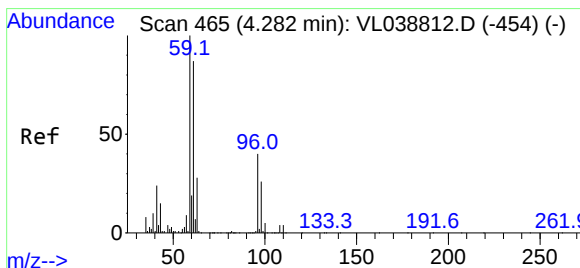
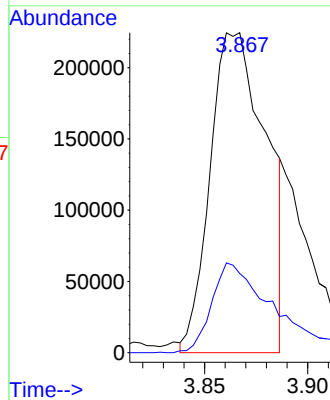
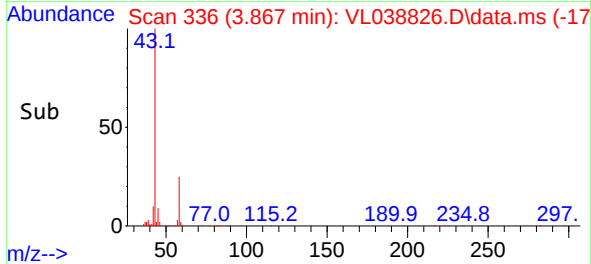
Instrument :
MSVOA_L
Client SampleId :
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Tgt Ion: 43 Resp: 423564
Ion Ratio Lower Upper
43 100
58 32.6 22.5 33.7

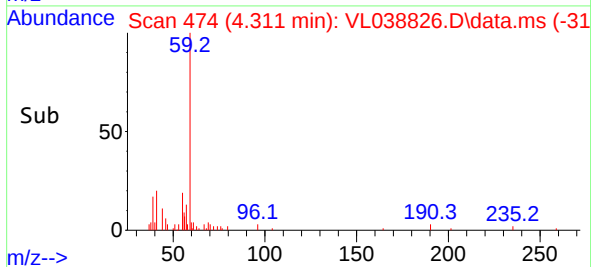
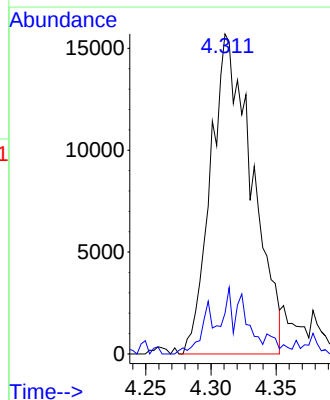
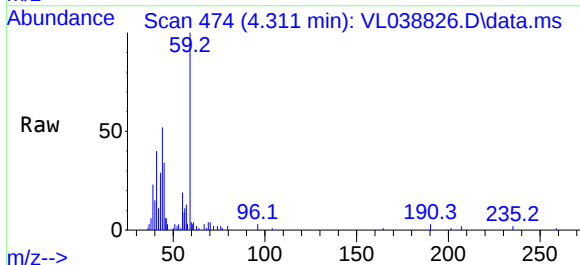
Manual Integrations
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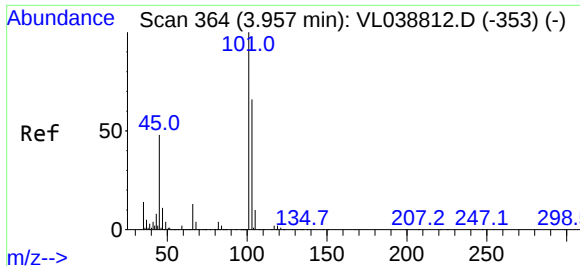
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#17
tert-Butyl alcohol
Concen: 0.282 ppbv m
RT: 4.311 min Scan# 474
Delta R.T. 0.029 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

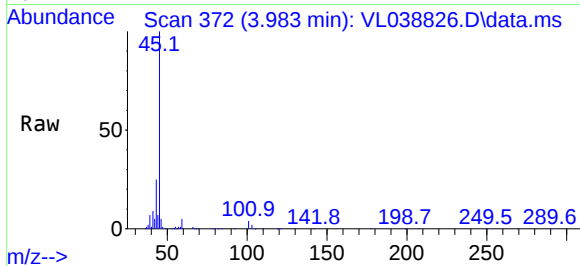
Tgt Ion: 59 Resp: 34687
Ion Ratio Lower Upper
59 100
57 17.3 8.5 12.7#





#19
Isopropyl Alcohol
Concen: 5.671 ppbv
RT: 3.983 min Scan# 31
Delta R.T. 0.025 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

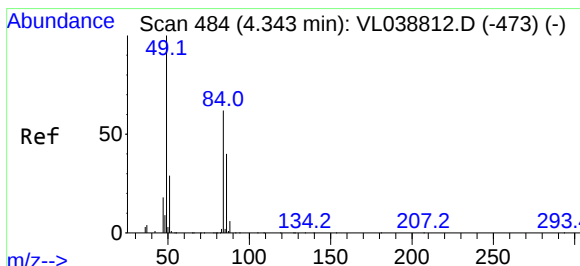
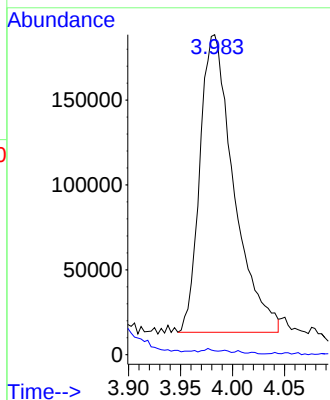
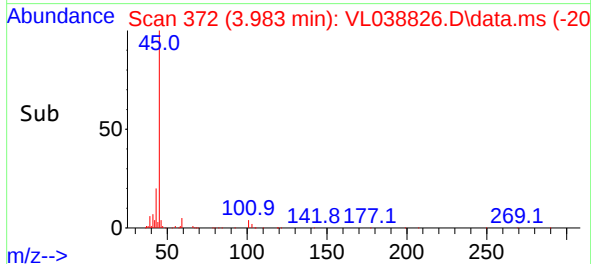
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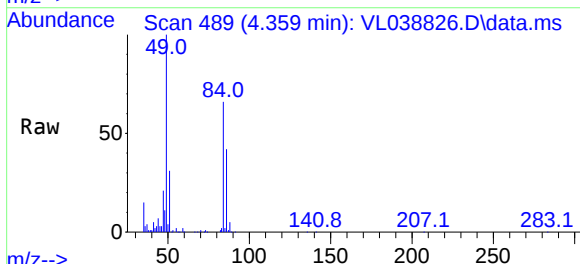
Tgt Ion: 45 Resp: 397692
Ion Ratio Lower Upper
45 100
58 2.6 0.0 0.0

Manual Integrations
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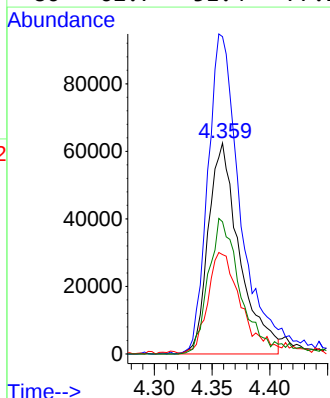
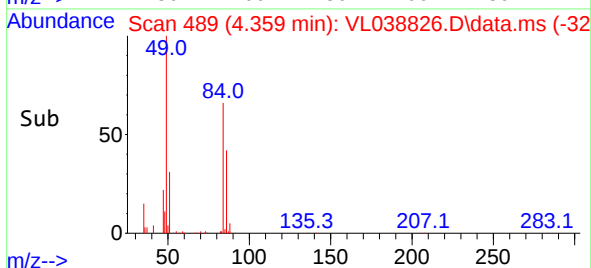
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

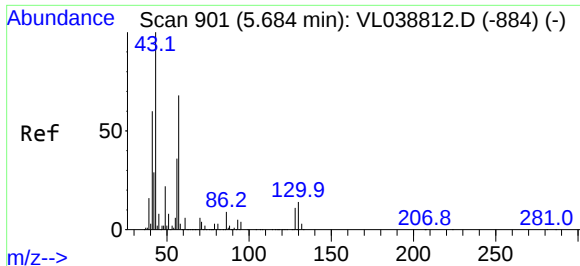


#20
Methylene Chloride
Concen: 2.365 ppbv
RT: 4.359 min Scan# 489
Delta R.T. 0.016 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45



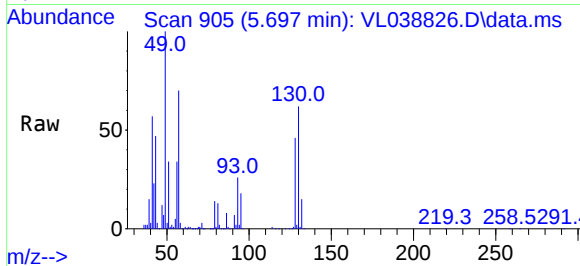
Tgt Ion: 84 Resp: 117662
Ion Ratio Lower Upper
84 100
49 150.1 129.4 194.0
51 46.7 37.4 56.2
86 62.7 51.4 77.2





#26
Hexane
Concen: 2.695 ppbv
RT: 5.697 min Scan# 901
Delta R.T. 0.013 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

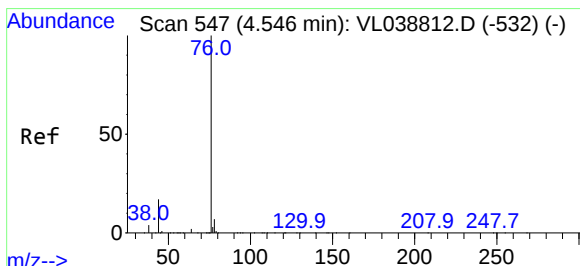
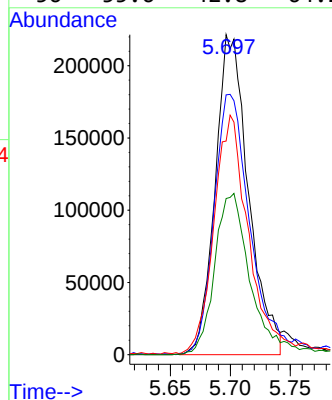
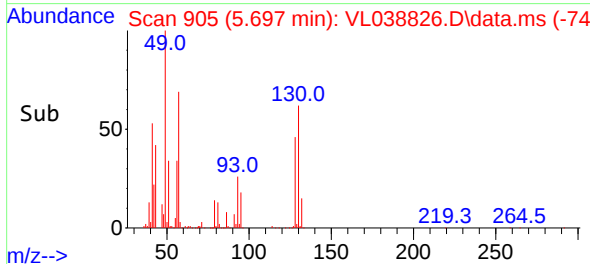
Instrument :
MSVOA_L
ClientSampleId :
IA-18D



Tgt Ion: 57 Resp: 427022
Ion Ratio Lower Upper
57 100
41 90.7 72.0 108.0
43 80.8 186.6 280.0
56 55.6 42.8 64.2

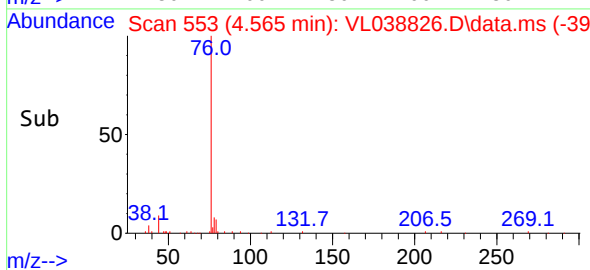
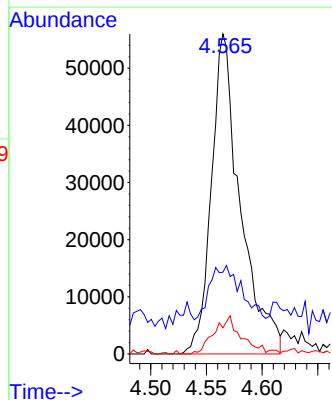
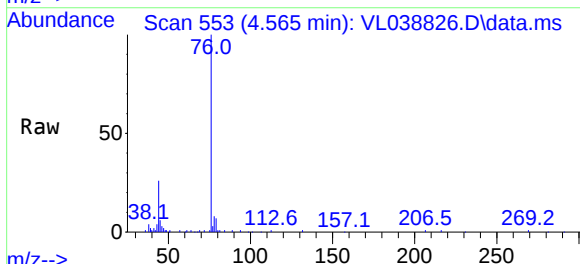
Manual Integrations
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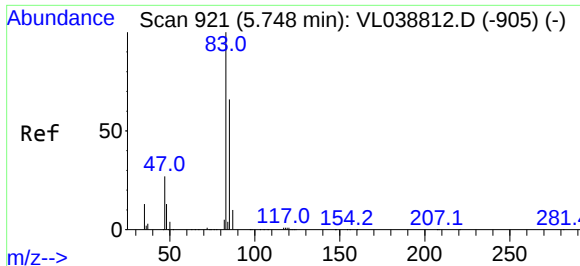
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#27
Carbon Disulfide
Concen: 0.697 ppbv
RT: 4.565 min Scan# 553
Delta R.T. 0.019 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

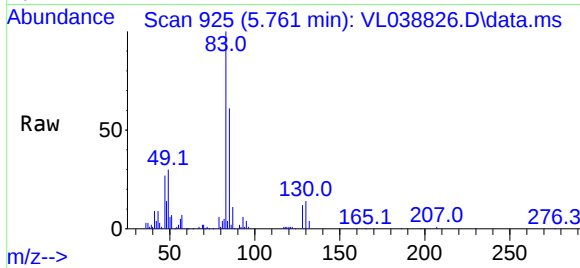
Tgt Ion: 76 Resp: 101323
Ion Ratio Lower Upper
76 100
44 31.3 15.7 23.5
78 11.3 7.8 11.8





#29
Chloroform
Concen: 0.756 ppbv
RT: 5.761 min Scan# 91
Delta R.T. 0.013 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

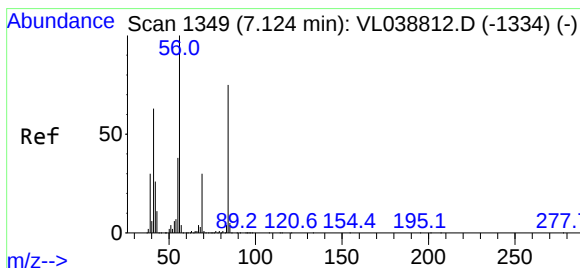
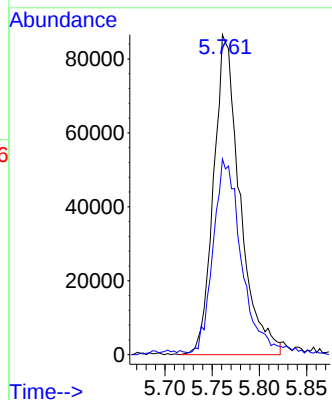
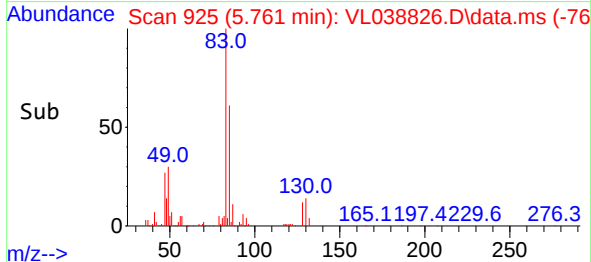
Instrument :
MSVOA_L
ClientSampleId :
IA-18D



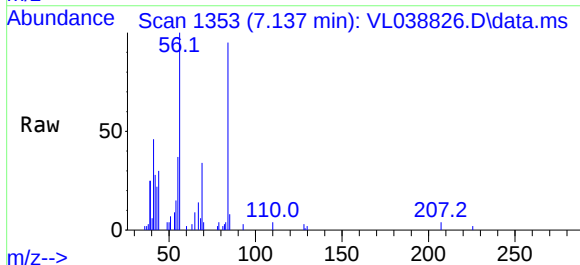
Tgt Ion: 83 Resp: 16757
Ion Ratio Lower Upper
83 100
85 59.8 52.5 78.7

Manual Integrations
APPROVED

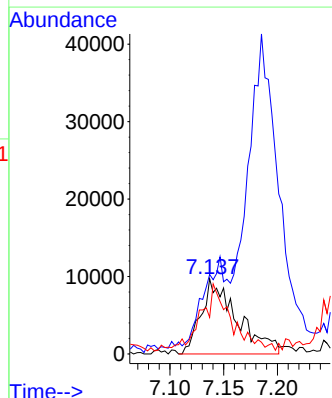
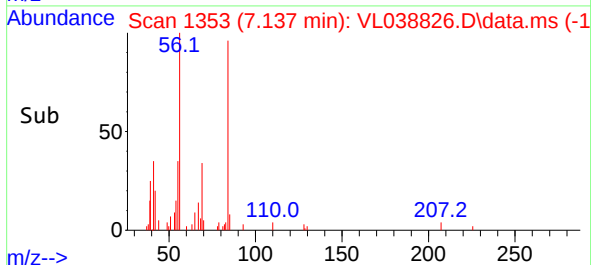
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

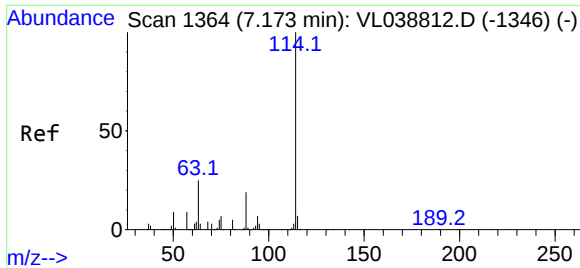


#30
Cyclohexane
Concen: 0.161 ppbv m
RT: 7.137 min Scan# 1353
Delta R.T. 0.013 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45



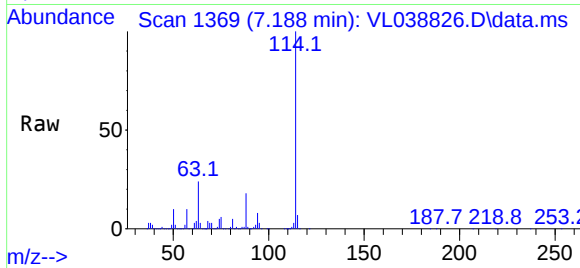
Tgt Ion: 84 Resp: 22531
Ion Ratio Lower Upper
84 100
56 0.0 114.4 171.6#
41 0.0 69.0 103.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.188 min Scan# 114
Delta R.T. 0.016 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

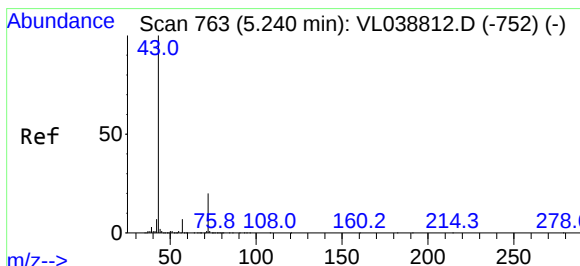
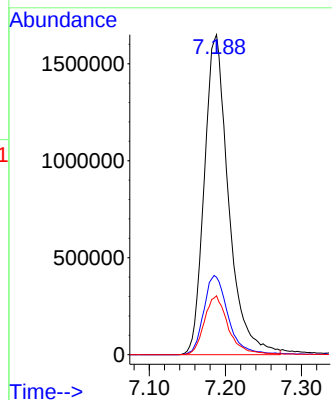
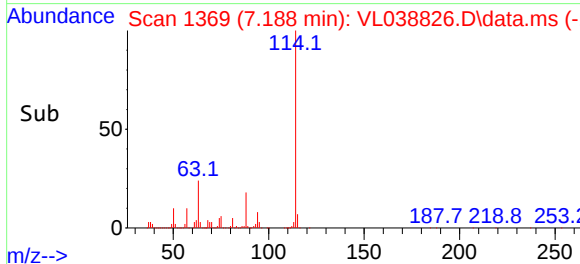
Instrument :
MSVOA_L
ClientSampleId :
IA-18D



Tgt Ion:114 Resp: 365687
Ion Ratio Lower Upper
114 100
63 25.2 19.8 29.8
88 18.5 14.2 21.4

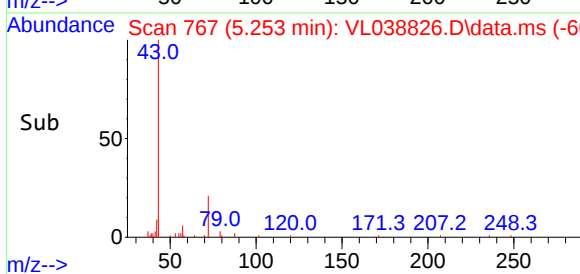
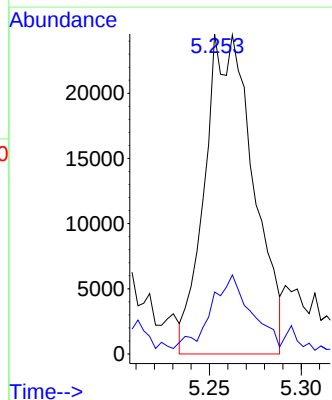
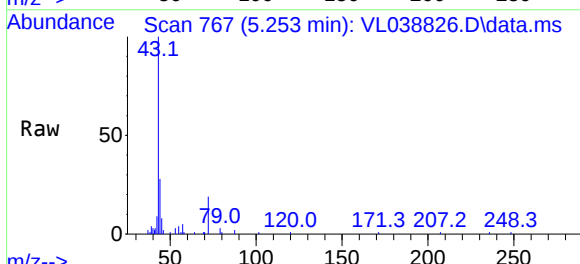
Manual Integrations
APPROVED

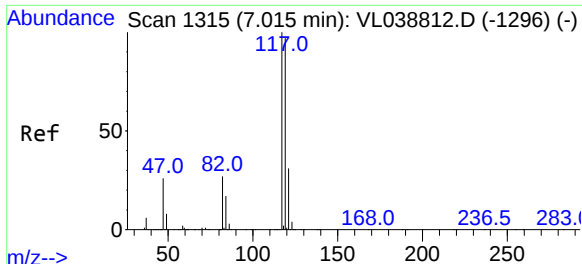
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#34
2-Butanone
Concen: 0.312 ppbv m
RT: 5.253 min Scan# 767
Delta R.T. 0.013 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

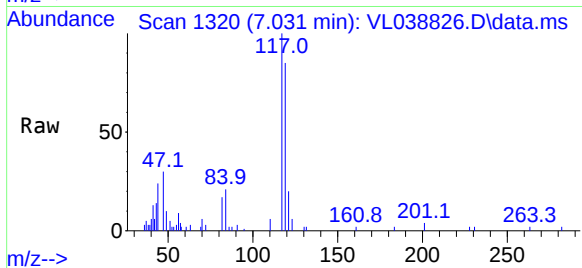
Tgt Ion: 43 Resp: 45054
Ion Ratio Lower Upper
43 100
72 0.0 16.9 25.3#





#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 7.031 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

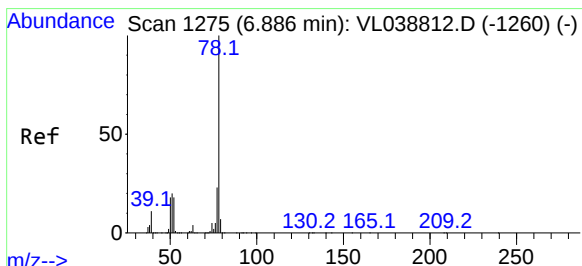
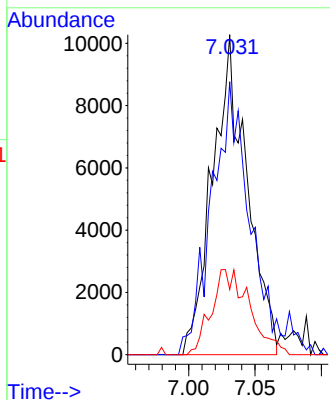
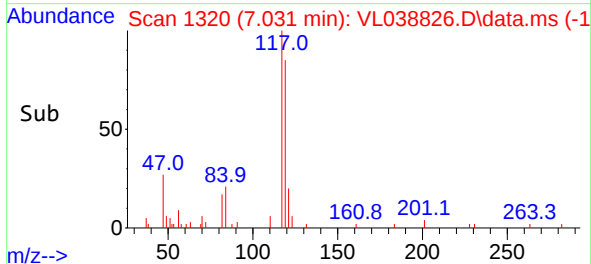
Instrument :
MSVOA_L
ClientSampleId :
IA-18D



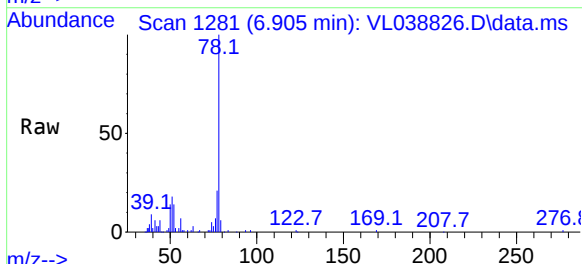
Tgt Ion: 117 Resp: 1856
Ion Ratio Lower Upper
117 100
119 85.3 77.7 116.5
121 20.4 24.5 36.7

Manual Integrations
APPROVED

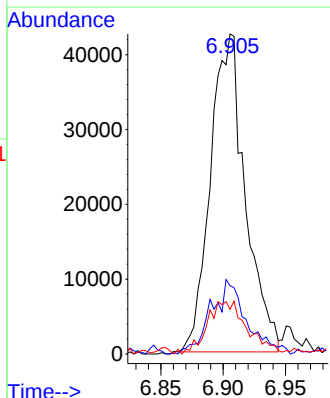
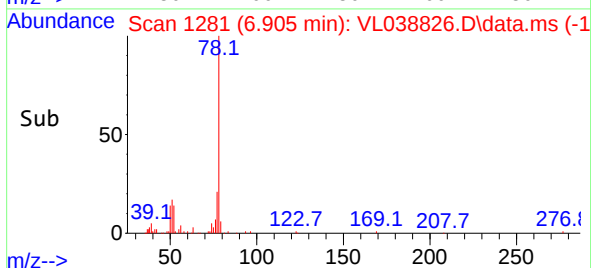
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

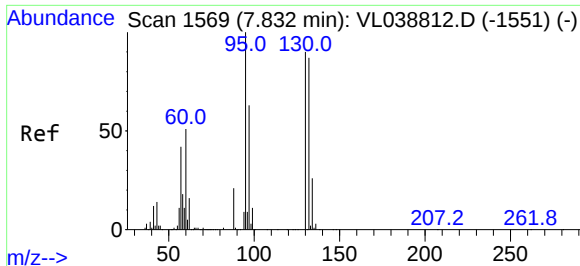


#36
Benzene
Concen: 0.249 ppbv
RT: 6.905 min Scan# 1281
Delta R.T. 0.019 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45



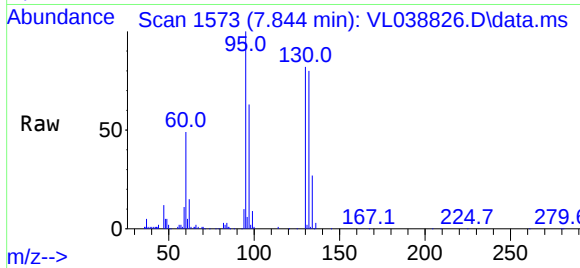
Tgt Ion: 78 Resp: 82830
Ion Ratio Lower Upper
78 100
77 21.5 18.2 27.2
50 13.0 14.0 21.0





#38
Trichloroethene
Concen: 1.481 ppbv m
RT: 7.844 min Scan# 1569
Delta R.T. 0.013 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

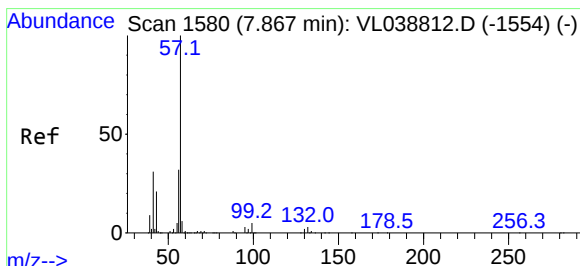
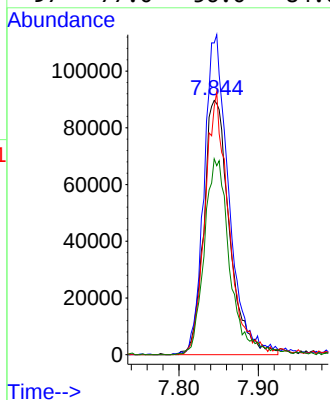
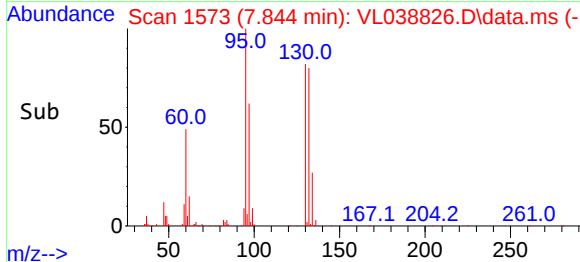
Instrument :
MSVOA_L
ClientSampleId :
IA-18D



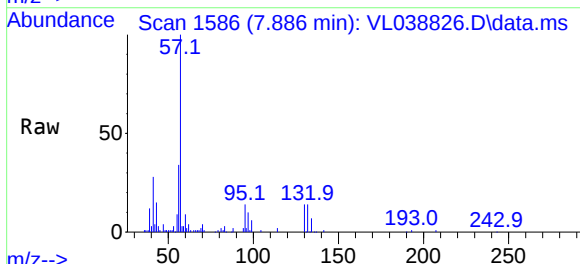
Tgt Ion:130 Resp: 20220
Ion Ratio Lower Upper
130 100
95 122.5 89.4 134.0
132 97.5 77.7 116.5
97 77.0 56.0 84.0

Manual Integrations
APPROVED

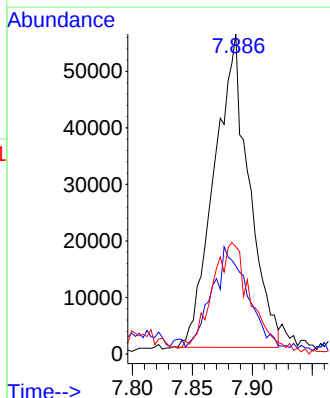
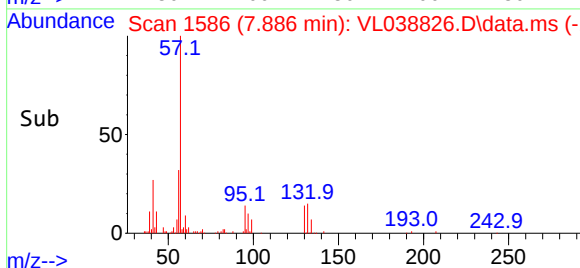
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

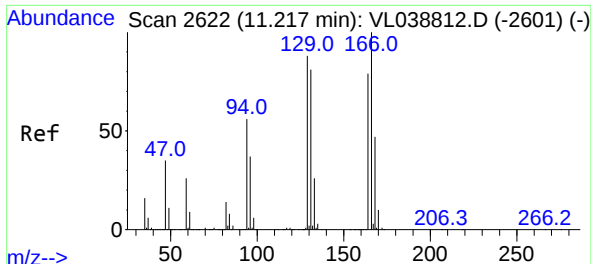


#44
2,2,4-Trimethylpentane
Concen: 0.198 ppbv
RT: 7.886 min Scan# 1586
Delta R.T. 0.019 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45



Tgt Ion: 57 Resp: 111545
Ion Ratio Lower Upper
57 100
41 42.9 25.0 37.4#
56 42.7 25.3 37.9#





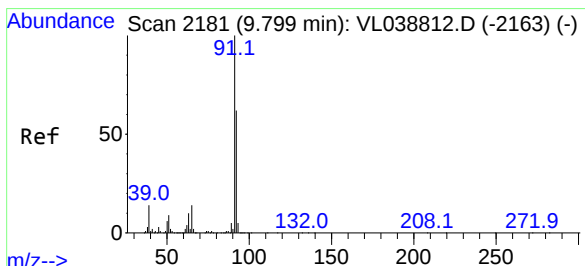
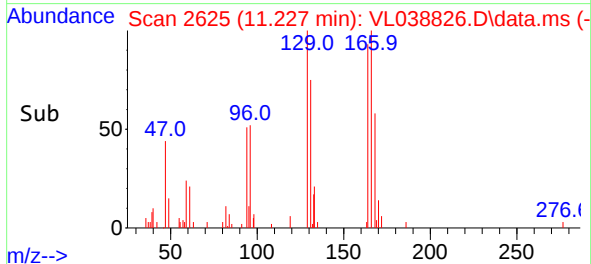
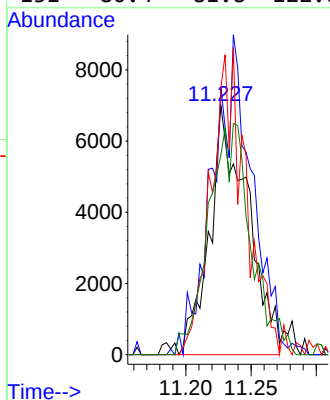
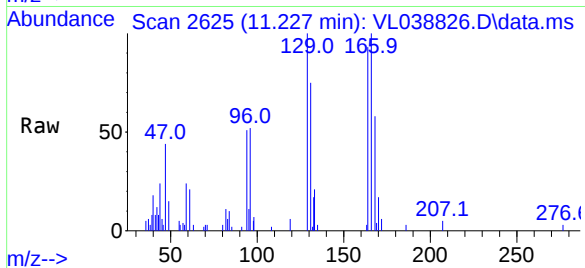
#52
Tetrachloroethene
Concen: 0.122 ppbv m
RT: 11.227 min Scan# 2164
Delta R.T. 0.009 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

Instrument :
MSVOA_L
ClientSampleId :
IA-18D

Tgt Ion:164 Resp: 14152
Ion Ratio Lower Upper
164 100
166 107.6 101.0 151.6
129 107.3 88.7 133.1
131 80.4 81.8 122.6#

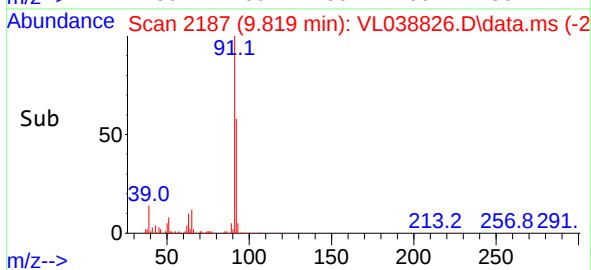
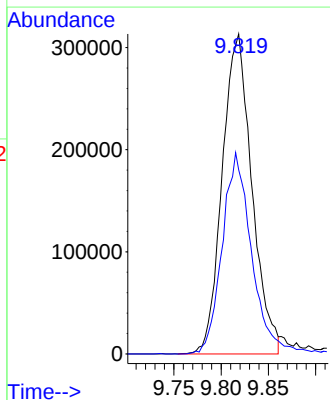
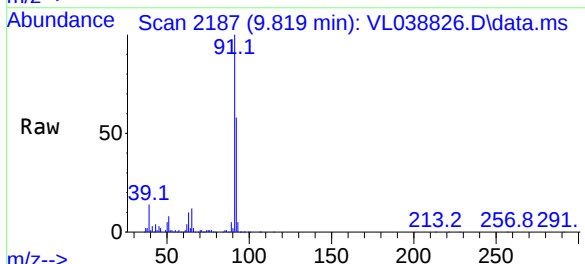
Manual Integrations
APPROVED

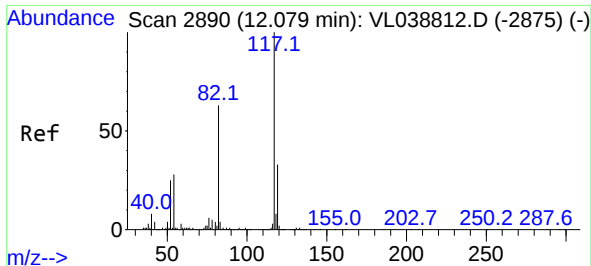
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#53
Toluene
Concen: 1.780 ppbv
RT: 9.819 min Scan# 2187
Delta R.T. 0.019 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

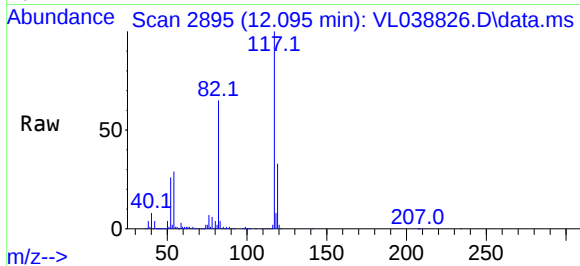
Tgt Ion: 91 Resp: 683770
Ion Ratio Lower Upper
91 100
92 63.4 49.2 73.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.095 min Scan# 2895
Delta R.T. 0.016 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

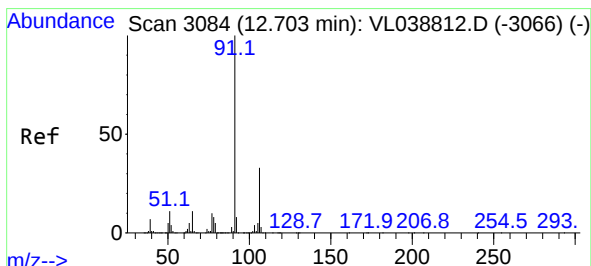
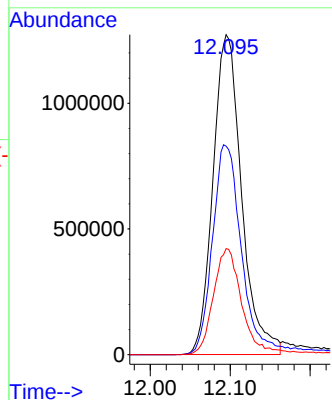
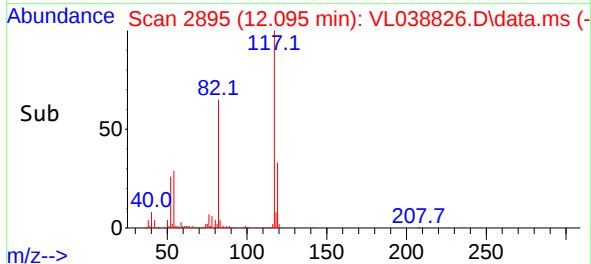
Instrument :
MSVOA_L
ClientSampleId :
IA-18D



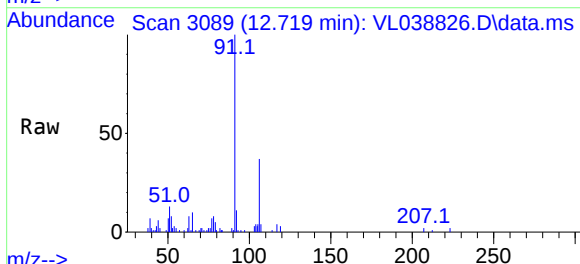
Tgt Ion:117 Resp: 315936
Ion Ratio Lower Upper
117 100
82 69.8 53.0 79.6
119 34.8 24.9 37.3

Manual Integrations
APPROVED

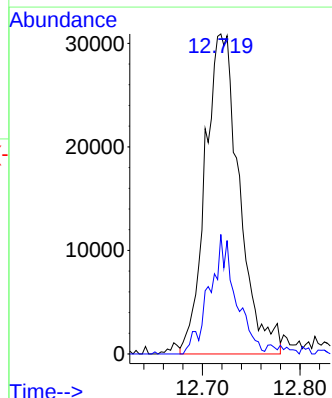
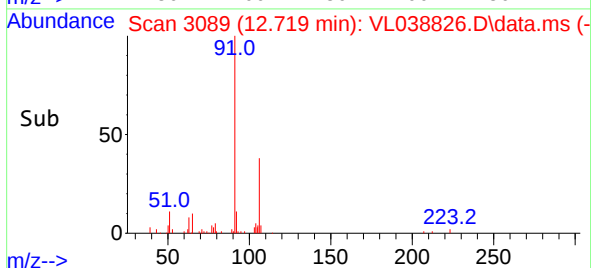
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

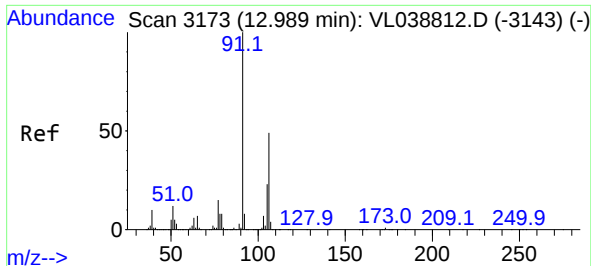


#58
Ethyl Benzene
Concen: 0.159 ppbv m
RT: 12.719 min Scan# 3089
Delta R.T. 0.016 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45



Tgt Ion: 91 Resp: 75286
Ion Ratio Lower Upper
91 100
106 37.4 26.7 40.1





#59

m/p-Xylene

Concen: 0.534 ppbv m

RT: 12.976 min Scan# 3173

Delta R.T. -0.013 min

Lab File: VL038826.D

Acq: 6 Apr 2022 9:45

Instrument :

MSVOA_L

ClientSampleId :

IA-18D

Tgt Ion: 91 Resp: 211730

Ion Ratio Lower Upper

91 100

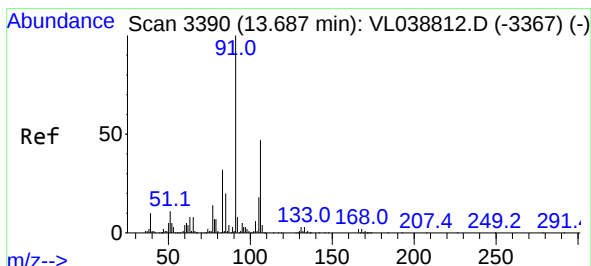
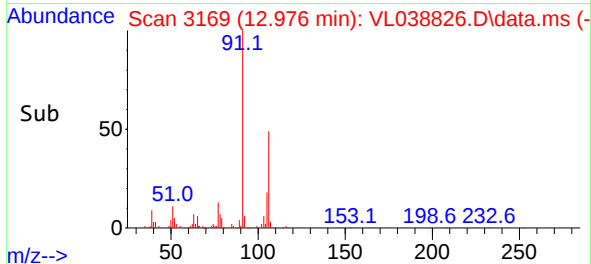
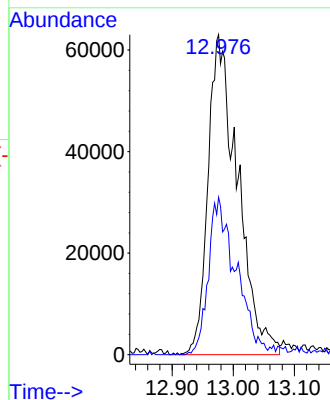
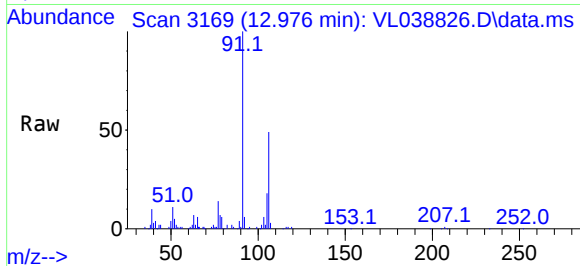
106 0.0 37.1 55.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2022

Supervised By :Mahesh Dadoda 04/07/2022



#60

o-Xylene

Concen: 0.211 ppbv m

RT: 13.703 min Scan# 3395

Delta R.T. 0.016 min

Lab File: VL038826.D

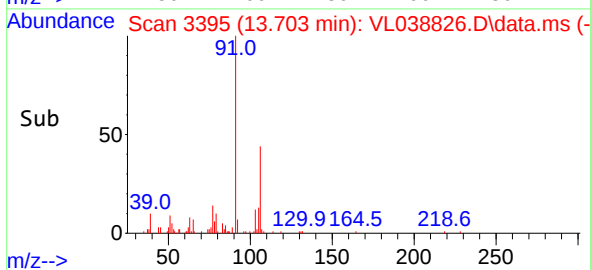
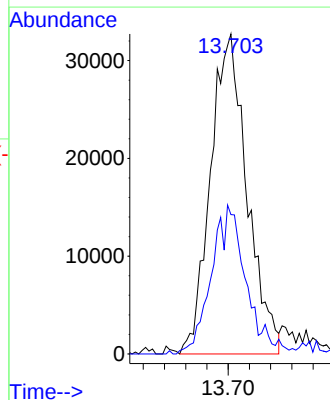
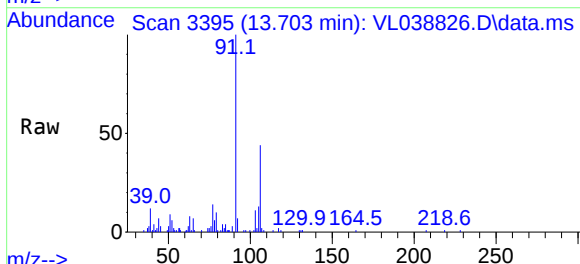
Acq: 6 Apr 2022 9:45

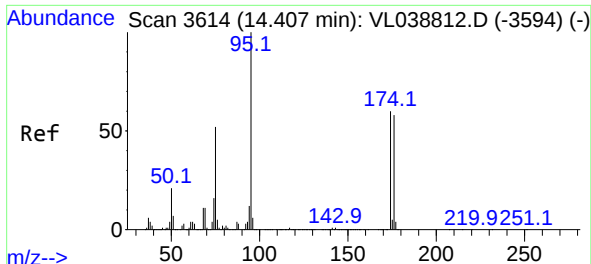
Tgt Ion: 91 Resp: 78375

Ion Ratio Lower Upper

91 100

106 44.1 23.8 71.4





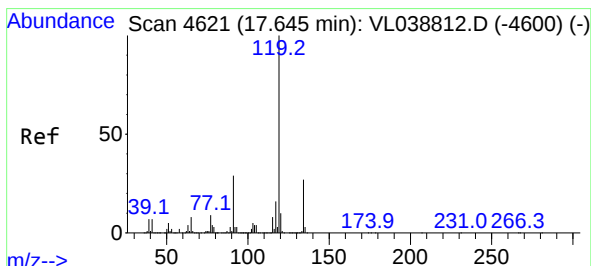
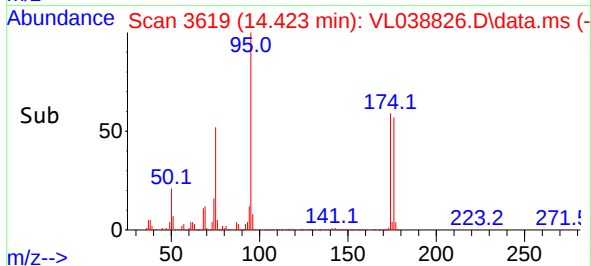
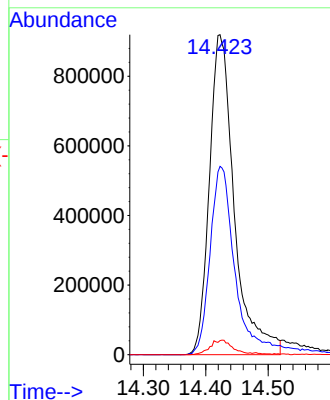
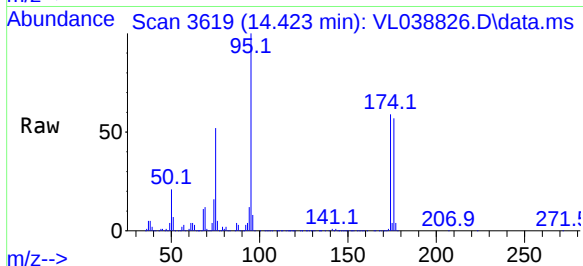
#68
1-Bromo-4-Fluorobenzene
Concen: 10.657 ppbv
RT: 14.423 min Scan# 3619
Delta R.T. 0.016 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

Instrument :
MSVOA_L
ClientSampleId :
IA-18D

Tgt Ion: 95 Resp: 255386
Ion Ratio Lower Upper
95 100
174 62.1 52.0 78.0
175 4.5 4.0 6.0

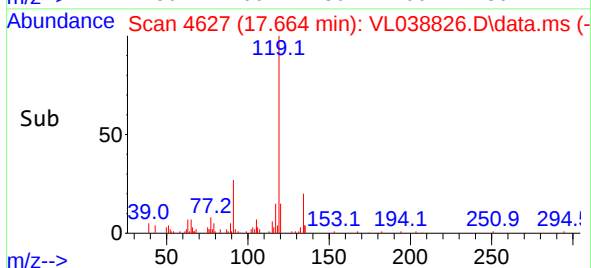
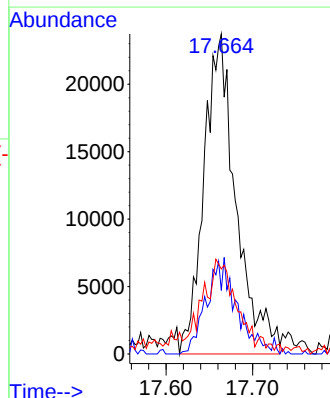
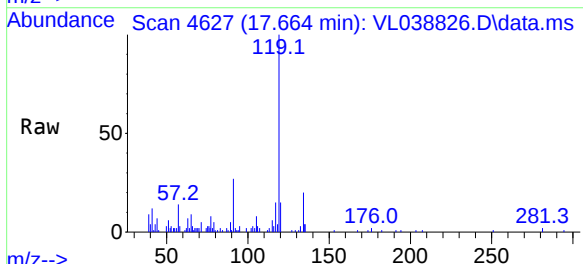
Manual Integrations
APPROVED

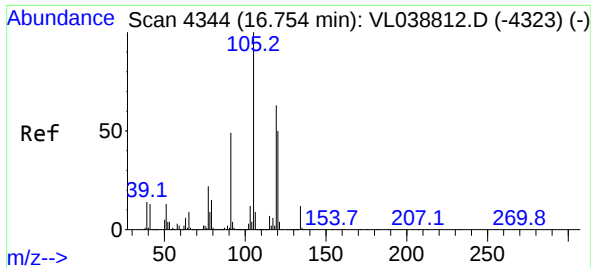
Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022



#69
p-Isopropyltoluene
Concen: 0.107 ppbv m
RT: 17.664 min Scan# 4627
Delta R.T. 0.019 min
Lab File: VL038826.D
Acq: 6 Apr 2022 9:45

Tgt Ion:119 Resp: 61109
Ion Ratio Lower Upper
119 100
134 28.7 20.8 31.2
91 0.0 22.6 34.0#





#74

1,2,4-Trimethylbenzene

Concen: 0.154 ppbv m

RT: 16.770 min Scan# 4344

Delta R.T. 0.016 min

Lab File: VL038826.D

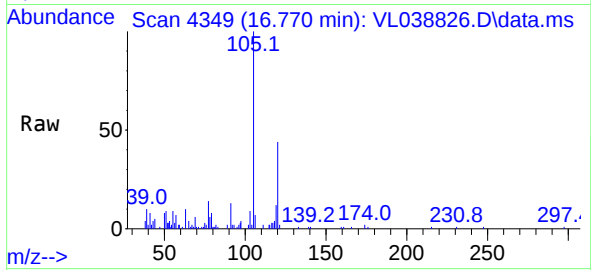
Acq: 6 Apr 2022 9:45

Instrument :

MSVOA_L

ClientSampleId :

IA-18D



Tgt Ion:	105	Resp:	6487
Ion	Ratio	Lower	Upper
105	100		
120	43.8	39.8	59.8
91	13.0	39.4	59.0
77	14.3	17.3	25.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2022
Supervised By :Mahesh Dadoda 04/07/2022

