

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040722\
 Data File : VL038844.D
 Acq On : 7 Apr 2022 16:55
 Operator : SY/AP
 Sample : N2273-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1160-1A-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/09/2022
 Supervised By : Mahesh Dadoda 04/11/2022

Quant Time: Apr 08 05:25:39 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	5.690	49	1287908	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.195	114	3174755	10.000	ppbv	0.02
55) Chlorobenzene-d5	12.105	117	2774519	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.433	95	2166372	10.294	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.900%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.070	85	52286	0.286	ppbv	93
3) Chlorodifluoromethane	3.009	51	66983	0.426	ppbv	94
4) Chloromethane	3.160	50	36094	0.443	ppbv #	72
9) Propene	3.041	41	627142m	7.541	ppbv	
10) Heptane	8.143	43	104583	0.499	ppbv	99
11) Trichlorofluoromethane	3.973	101	35584	0.242	ppbv	99
13) Ethanol	3.623	45	281080m	55.618	ppbv	
15) Acetone	3.864	43	3019629	23.550	ppbv	97
19) Isopropyl Alcohol	3.986	45	121511	1.854	ppbv #	100
20) Methylene Chloride	4.365	84	156949	3.375	ppbv	89
26) Hexane	5.709	57	318241m	2.149	ppbv	
30) Cyclohexane	7.150	84	24702m	0.189	ppbv	
34) 2-Butanone	5.266	43	114991	0.917	ppbv	92
35) Carbon Tetrachloride	7.041	117	13746m	0.072	ppbv	
36) Benzene	6.912	78	94575	0.327	ppbv	96
44) 2,2,4-Trimethylpentane	7.889	57	110183m	0.225	ppbv	
50) 4-Methyl-2-Pentanone	8.774	43	102945m	0.365	ppbv	
52) Tetrachloroethene	11.246	164	61764m	0.612	ppbv	
53) Toluene	9.822	91	901119	2.703	ppbv	98
58) Ethyl Benzene	12.728	91	178528	0.431	ppbv	89
59) m/p-Xylene	12.983	91	553137m	1.588	ppbv	
60) o-Xylene	13.709	91	178935	0.549	ppbv	99
61) Styrene	13.548	104	164169	0.827	ppbv	93
74) 1,2,4-Trimethylbenzene	16.780	105	89051m	0.241	ppbv	

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

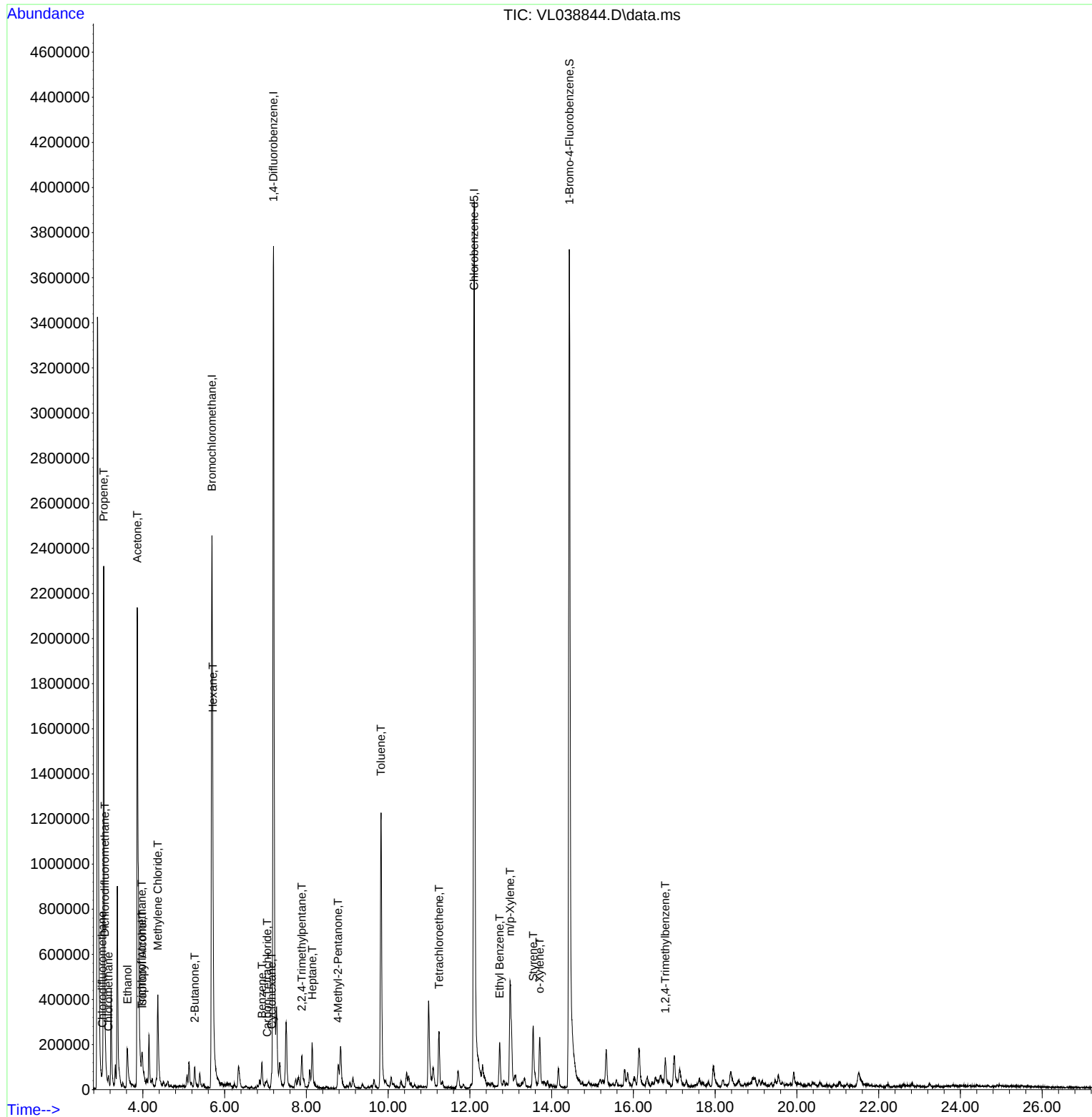
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040722\
Data File : VL038844.D
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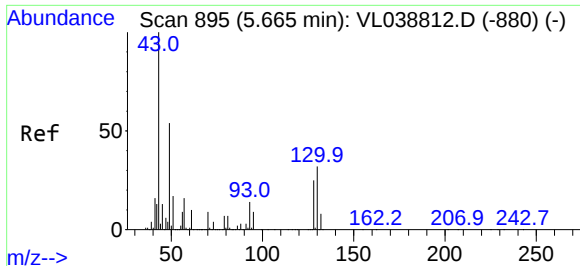
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1

Quant Time: Apr 08 05:25:39 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

Manual Integrations
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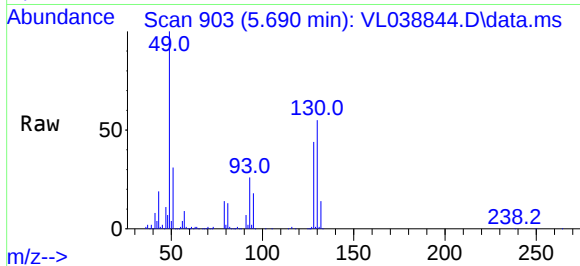
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.690 min Scan# 90
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

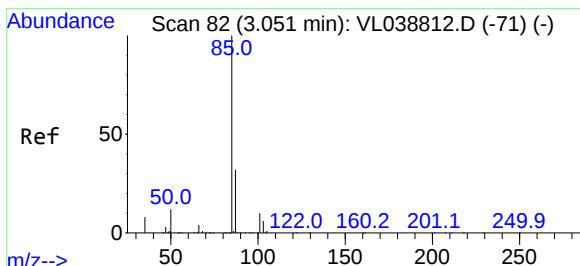
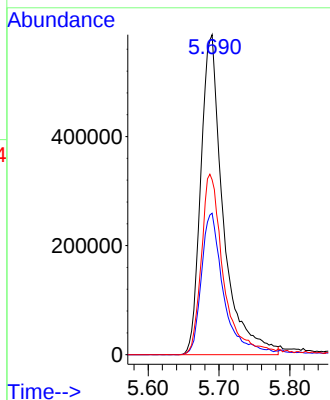
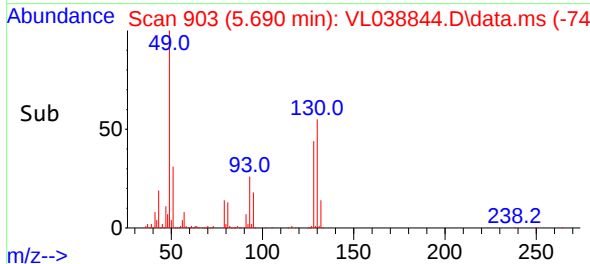
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



Tgt Ion: 49 Resp: 1287908
Ion Ratio Lower Upper
49 100
128 45.7 24.1 72.3
130 57.7 30.9 92.8

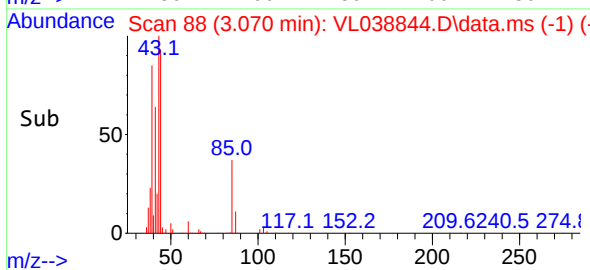
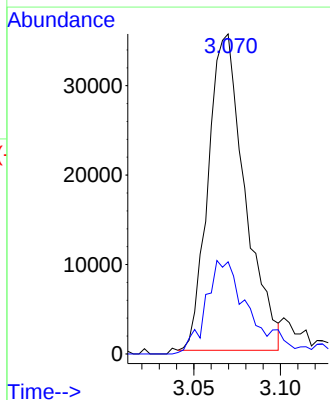
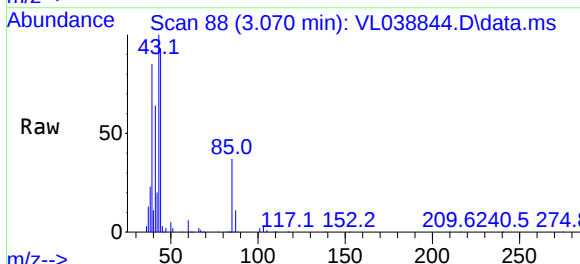
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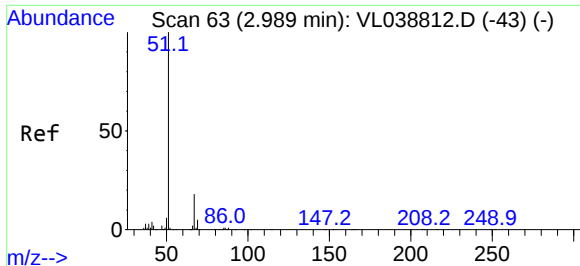
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#2
Dichlorodifluoromethane
Concen: 0.286 ppbv
RT: 3.070 min Scan# 88
Delta R.T. 0.019 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 85 Resp: 52286
Ion Ratio Lower Upper
85 100
87 28.7 25.9 38.9





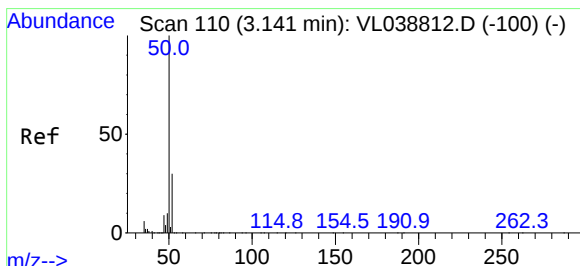
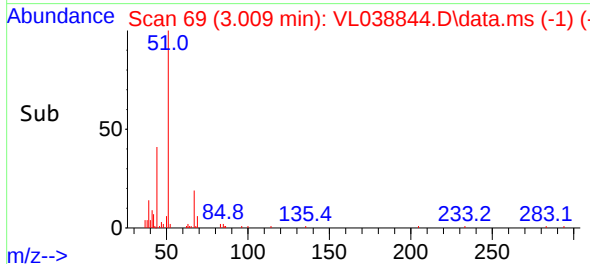
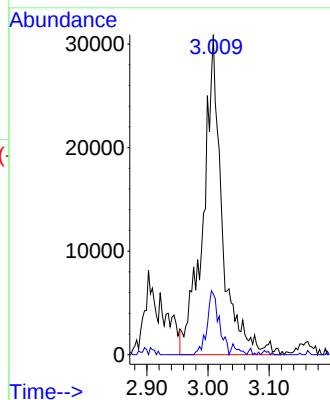
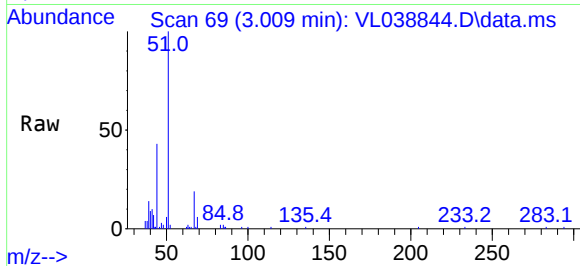
#3
Chlorodifluoromethane
Concen: 0.426 ppbv
RT: 3.009 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1

Tgt Ion: 51 Resp: 6698
Ion Ratio Lower Upper
51 100
67 14.1 13.4 20.0

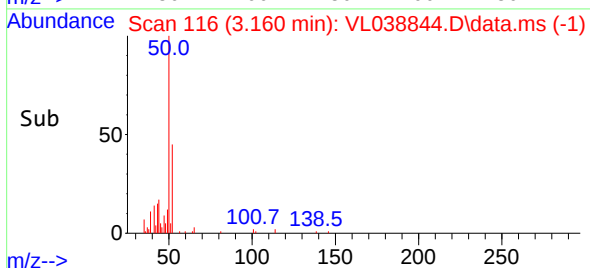
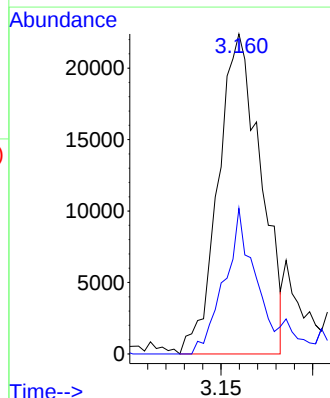
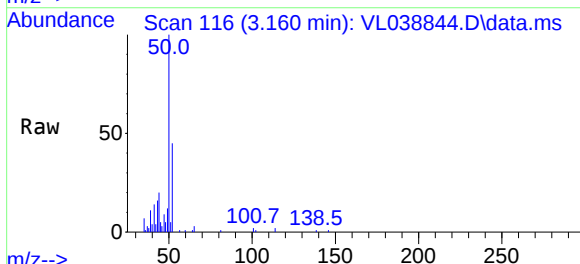
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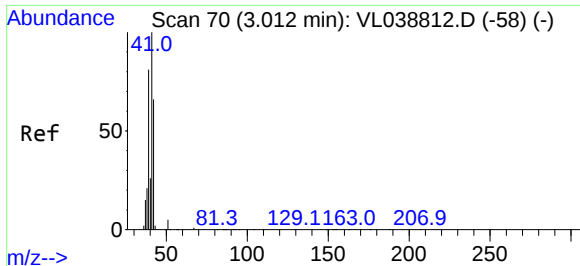
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#4
Chloromethane
Concen: 0.443 ppbv
RT: 3.160 min Scan# 116
Delta R.T. 0.019 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

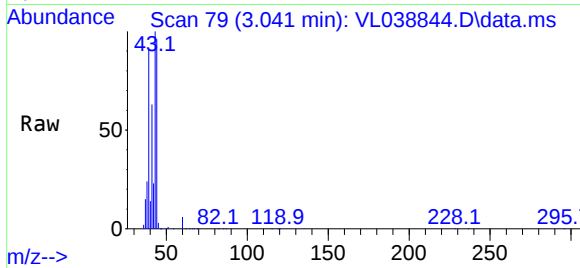
Tgt Ion: 50 Resp: 36094
Ion Ratio Lower Upper
50 100
52 45.5 24.3 36.5#





#9
Propene
Concen: 7.541 ppbv m
RT: 3.041 min Scan# 79
Delta R.T. 0.029 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

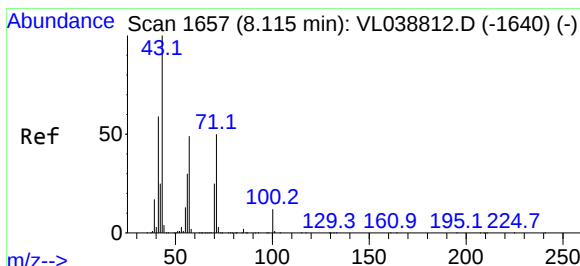
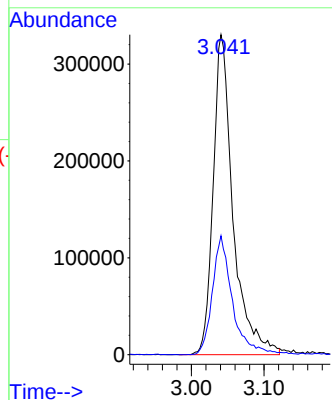
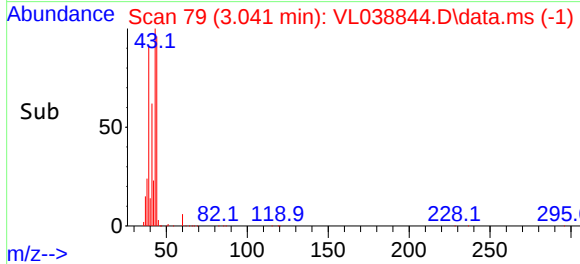
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



Tgt Ion: 41 Resp: 62714
Ion Ratio Lower Upper
41 100
42 15.5 54.2 81.4

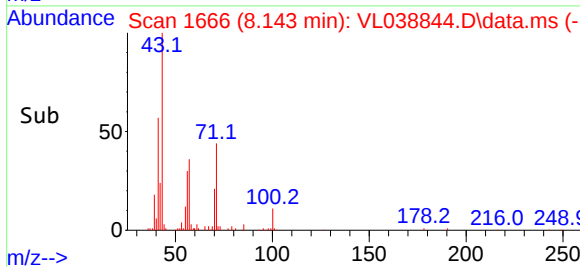
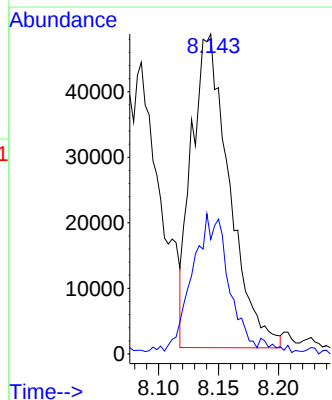
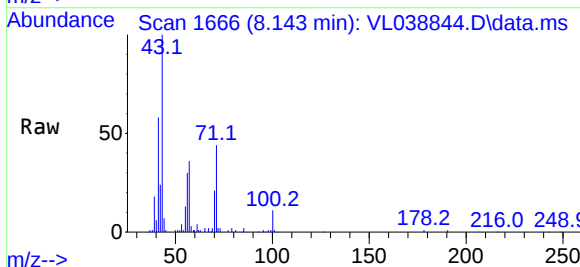
Manual Integrations
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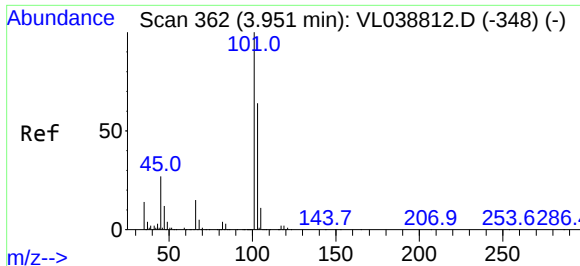
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#10
Heptane
Concen: 0.499 ppbv
RT: 8.143 min Scan# 1666
Delta R.T. 0.029 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Tgt Ion: 43 Resp: 104583
Ion Ratio Lower Upper
43 100
57 48.2 39.3 58.9





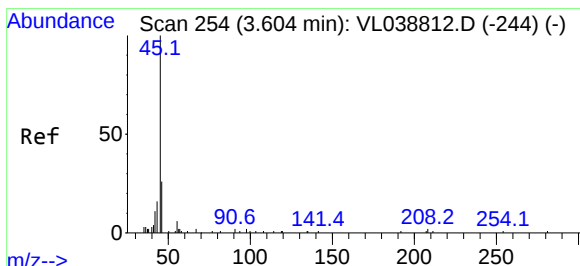
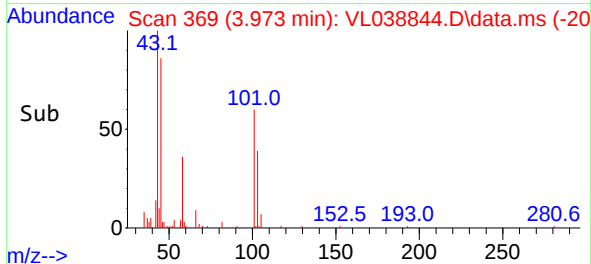
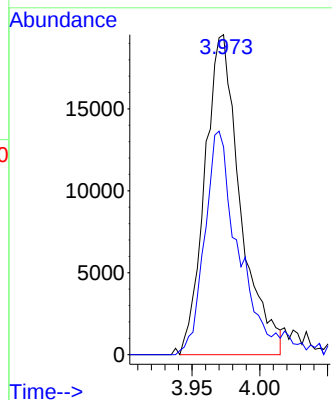
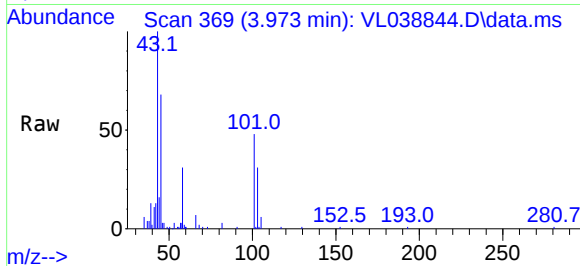
#11
Trichlorofluoromethane
Concen: 0.242 ppbv
RT: 3.973 min Scan# 30
Delta R.T. 0.022 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1

Tgt Ion:101 Resp: 35584
Ion Ratio Lower Upper
101 100
103 63.7 51.4 77.0

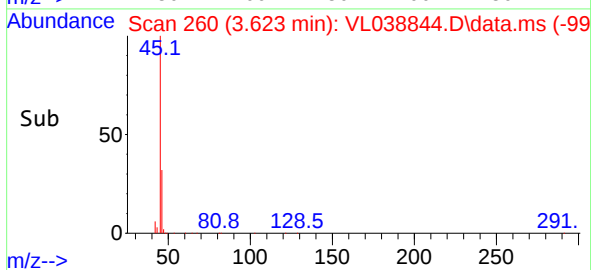
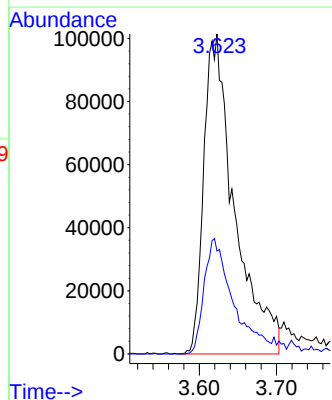
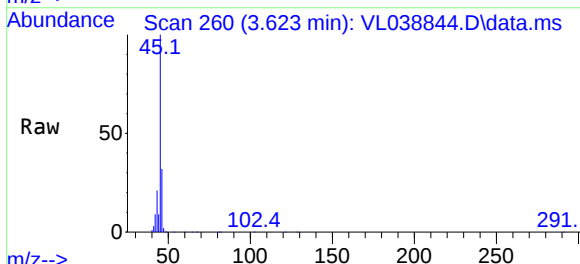
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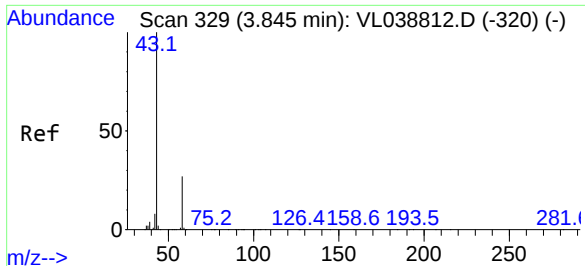
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#13
Ethanol
Concen: 55.618 ppbv m
RT: 3.623 min Scan# 260
Delta R.T. 0.019 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

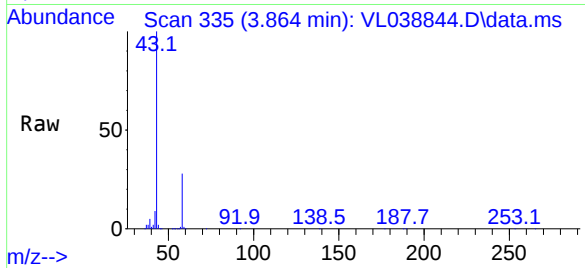
Tgt Ion: 45 Resp: 281080
Ion Ratio Lower Upper
45 100
46 36.7 0.0 0.0#





#15
Acetone
Concen: 23.550 ppbv
RT: 3.864 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

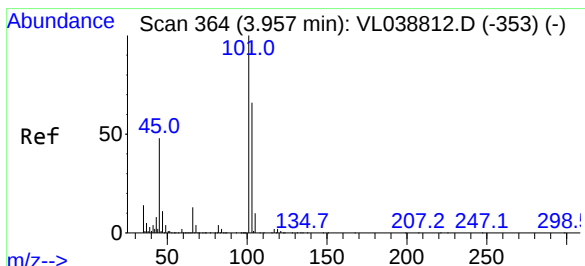
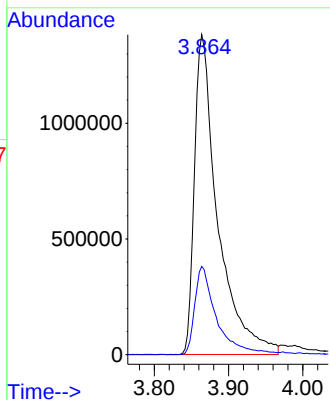
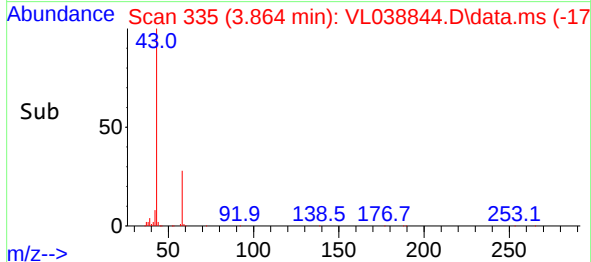
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



Tgt Ion: 43 Resp: 3019629
Ion Ratio Lower Upper
43 100
58 26.6 22.5 33.7

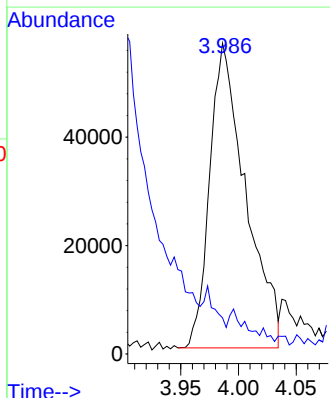
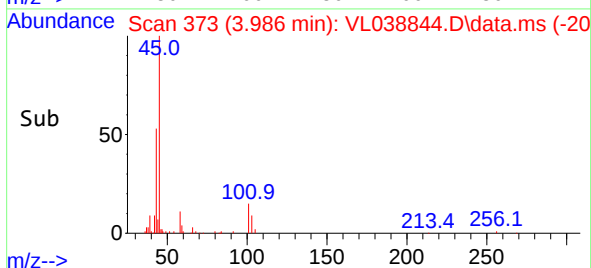
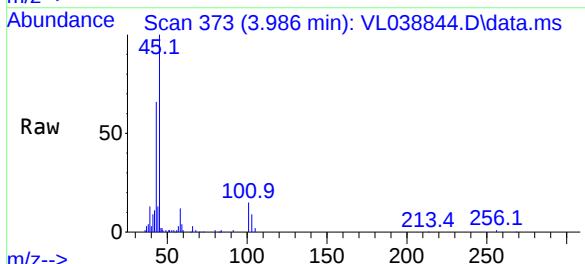
Manual Integrations
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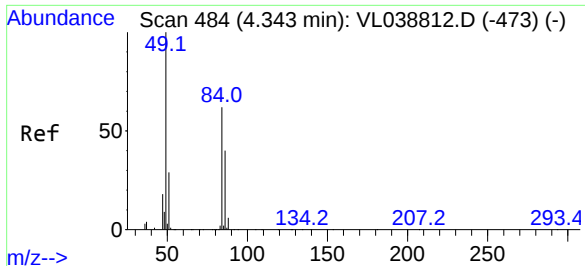
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#19
Isopropyl Alcohol
Concen: 1.854 ppbv
RT: 3.986 min Scan# 373
Delta R.T. 0.029 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

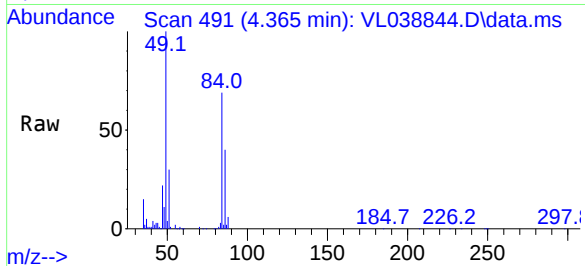
Tgt Ion: 45 Resp: 121511
Ion Ratio Lower Upper
45 100
58 0.0 0.0 0.0





#20
Methylene Chloride
Concen: 3.375 ppbv
RT: 4.365 min Scan# 491
Delta R.T. 0.022 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

Instrument :
MSVOA_L
Client Sample Id :
1160-1A-1

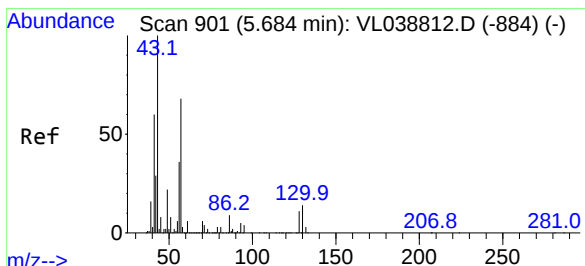
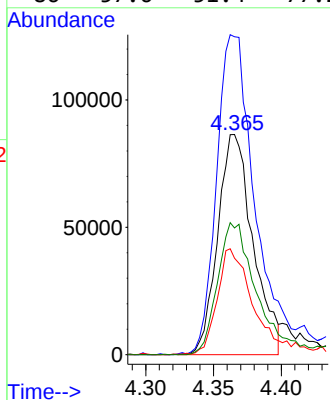
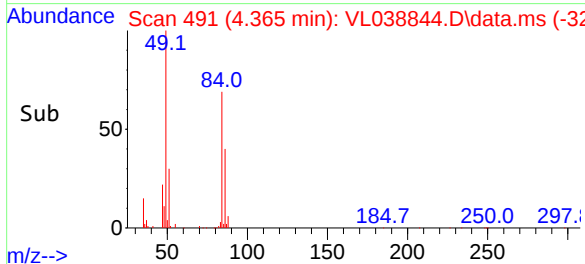


Tgt Ion: 84 Resp: 156949

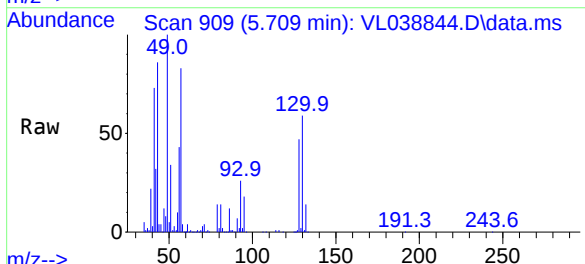
Ion	Ratio	Lower	Upper
84	100		
49	144.1	129.4	194.0
51	43.7	37.4	56.2
86	57.6	51.4	77.2

Manual Integrations
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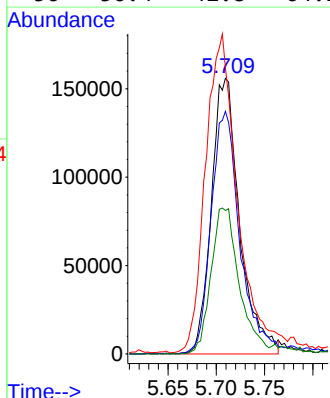
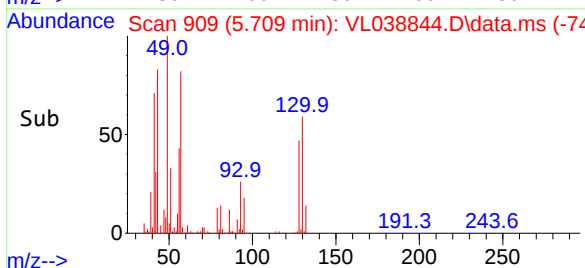


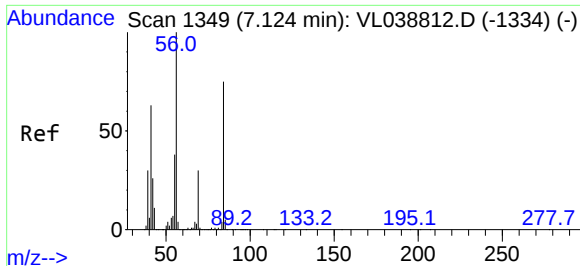
#26
Hexane
Concen: 2.149 ppbv m
RT: 5.709 min Scan# 909
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55



Tgt Ion: 57 Resp: 318241

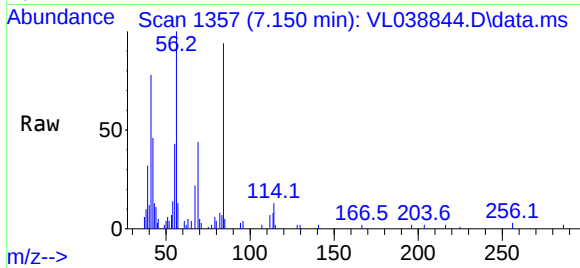
Ion	Ratio	Lower	Upper
57	100		
41	92.8	72.0	108.0
43	136.2	186.6	280.0#
56	56.4	42.8	64.2





#30
Cyclohexane
Concen: 0.189 ppbv m
RT: 7.150 min Scan# 1160
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

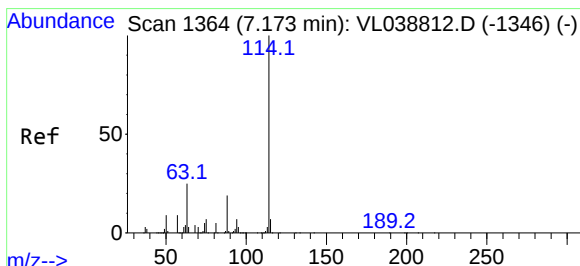
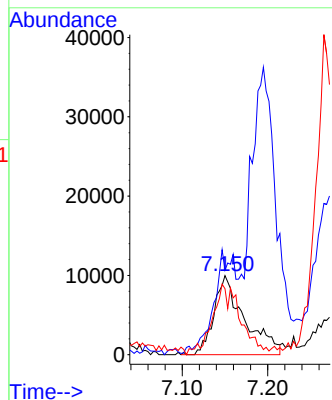
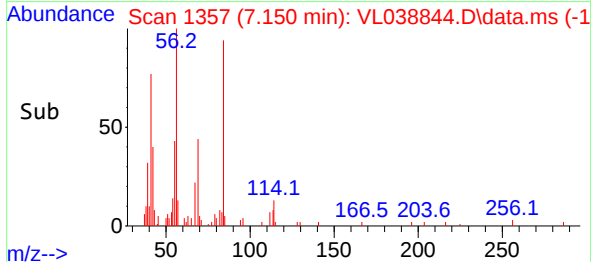
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



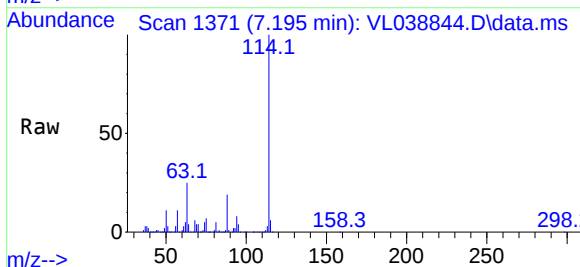
Tgt Ion: 84 Resp: 24702
Ion Ratio Lower Upper
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56 0.0 114.4 171.6
41 70.3 69.0 103.4

Manual Integrations
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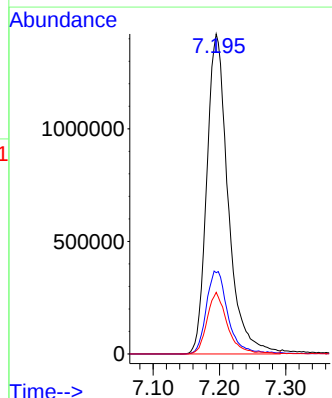
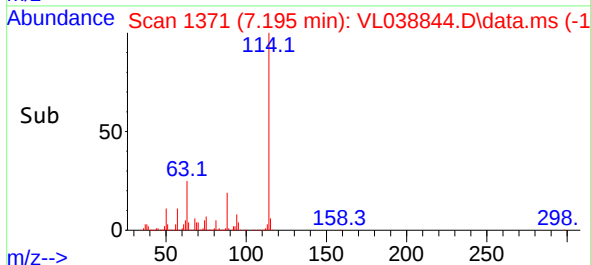
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022

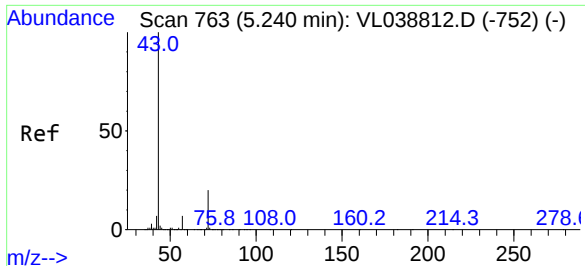


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.195 min Scan# 1371
Delta R.T. 0.022 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55



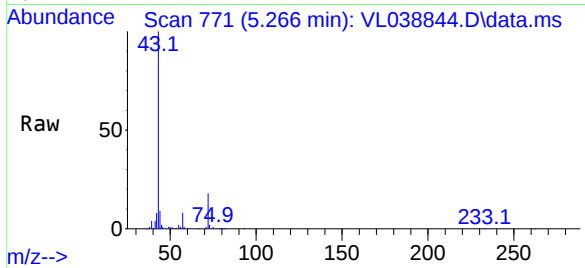
Tgt Ion:114 Resp: 3174755
Ion Ratio Lower Upper
114 100
63 26.7 19.8 29.8
88 18.5 14.2 21.4





#34
2-Butanone
Concen: 0.917 ppbv
RT: 5.266 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

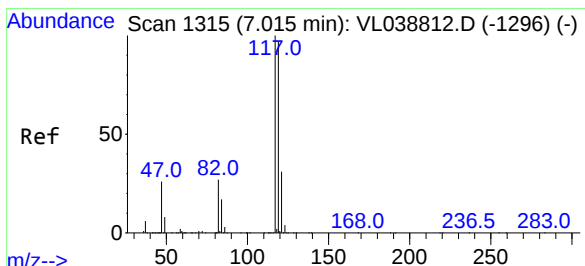
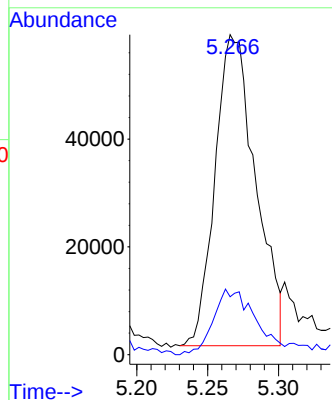
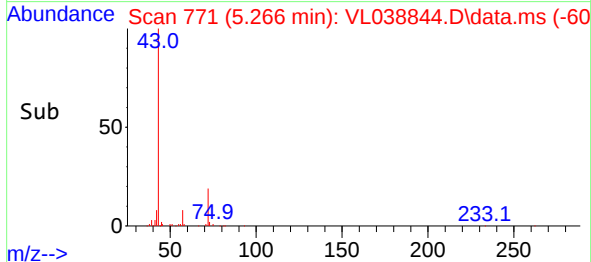
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



Tgt Ion: 43 Resp: 11499
Ion Ratio Lower Upper
43 100
72 25.0 16.9 25.3

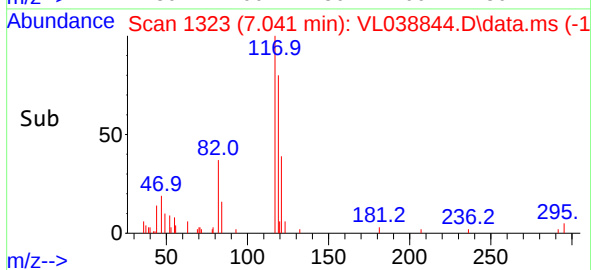
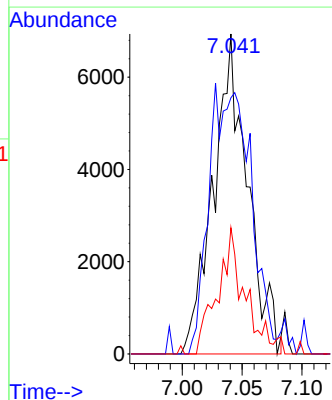
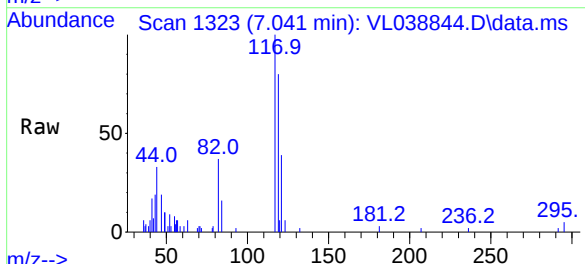
Manual Integrations
APPROVED

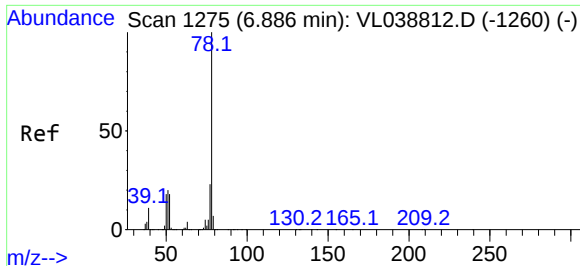
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.041 min Scan# 1323
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

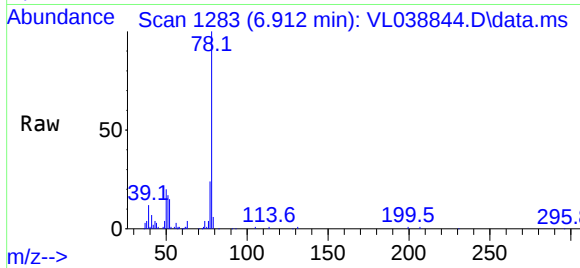
Tgt Ion:117 Resp: 13746
Ion Ratio Lower Upper
117 100
119 80.0 77.7 116.5
121 39.4 24.5 36.7#





#36
Benzene
Concen: 0.327 ppbv
RT: 6.912 min Scan# 1160
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

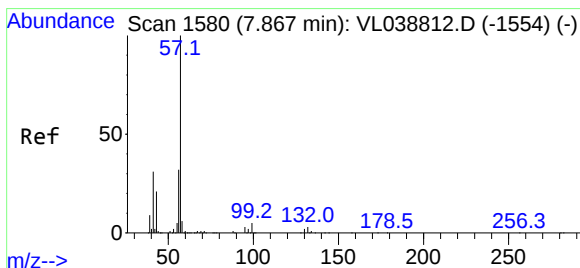
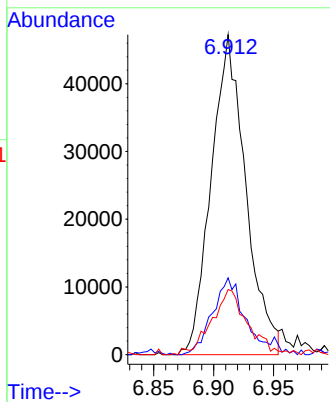
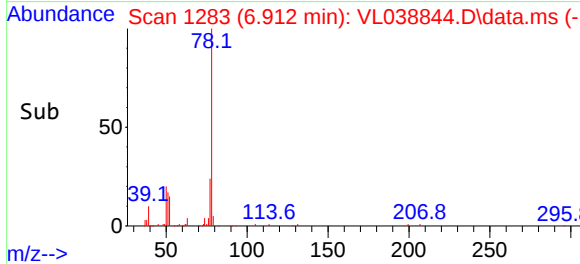
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



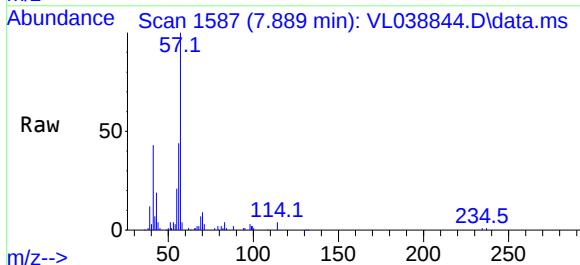
Tgt Ion: 78 Resp: 9457
Ion Ratio Lower Upper
78 100
77 24.0 18.2 27.2
50 20.4 14.0 21.0

Manual Integrations
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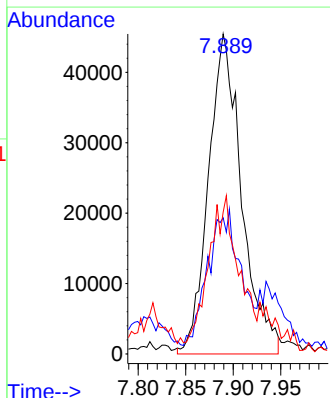
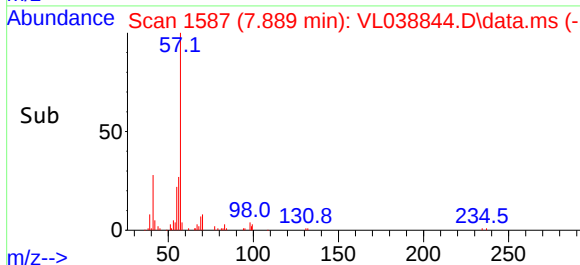
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022

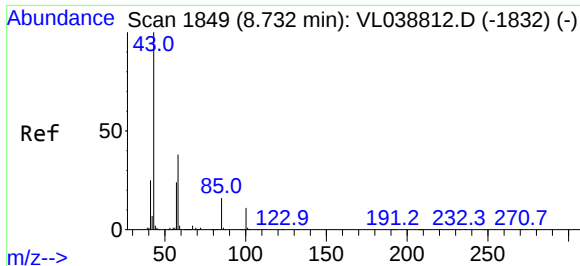


#44
2,2,4-Trimethylpentane
Concen: 0.225 ppbv m
RT: 7.889 min Scan# 1587
Delta R.T. 0.022 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55



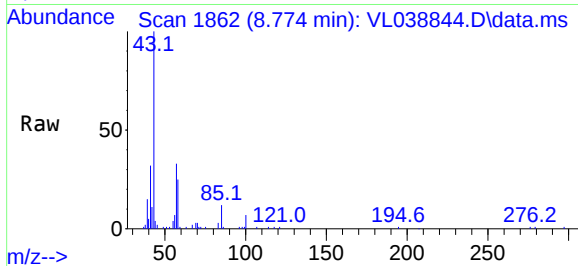
Tgt Ion: 57 Resp: 110183
Ion Ratio Lower Upper
57 100
41 62.9 25.0 37.4#
56 58.1 25.3 37.9#





#50
4-Methyl-2-Pentanone
Concen: 0.365 ppbv m
RT: 8.774 min Scan# 1849
Delta R.T. 0.042 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

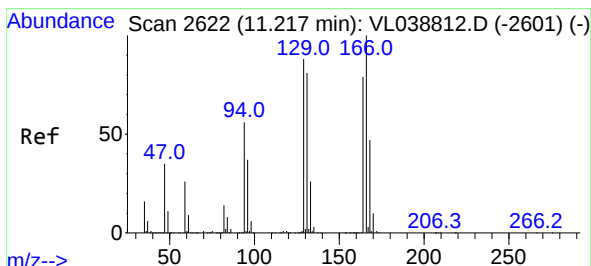
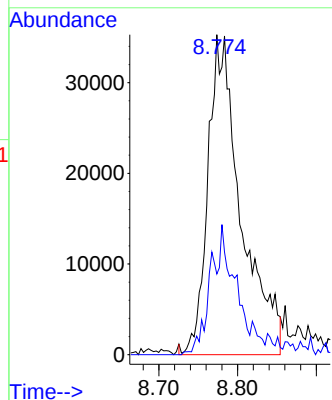
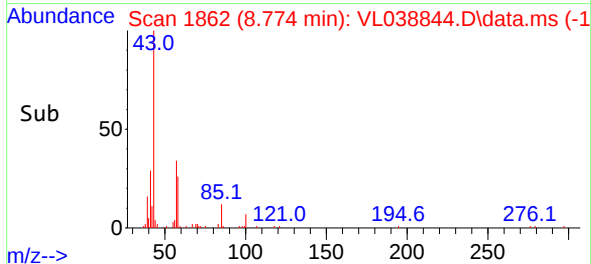
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



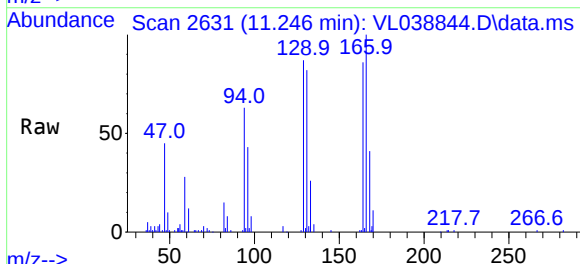
Tgt Ion: 43 Resp: 102945
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

Manual Integrations
APPROVED

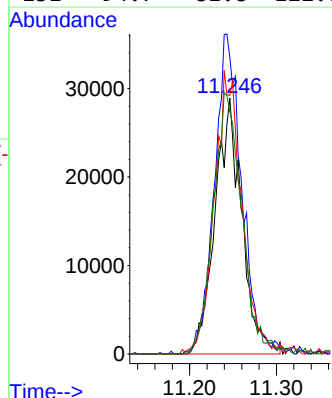
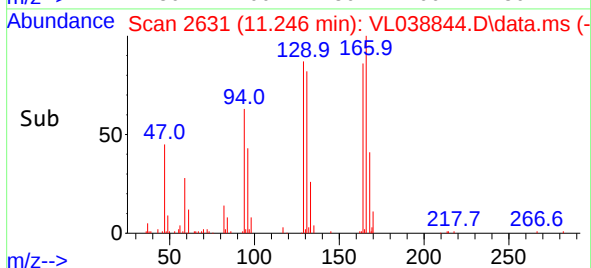
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022

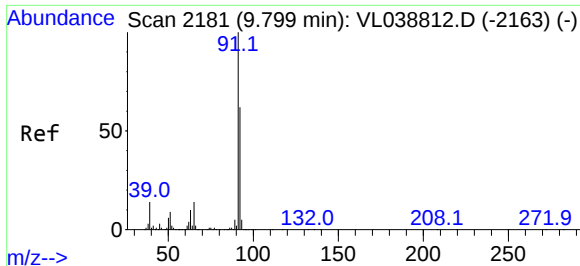


#52
Tetrachloroethene
Concen: 0.612 ppbv m
RT: 11.246 min Scan# 2631
Delta R.T. 0.029 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55



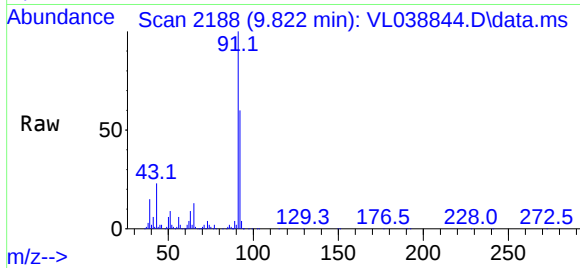
Tgt Ion:164 Resp: 61764
Ion Ratio Lower Upper
164 100
166 115.9 101.0 151.6
129 101.1 88.7 133.1
131 94.7 81.8 122.6





#53
Toluene
Concen: 2.703 ppbv
RT: 9.822 min Scan# 2181
Delta R.T. 0.022 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

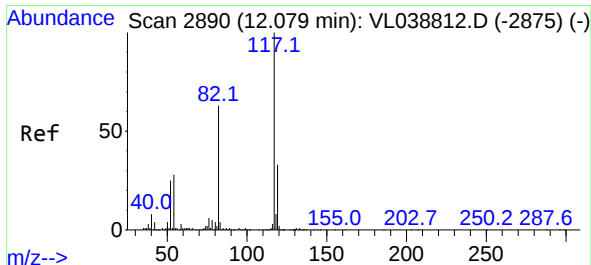
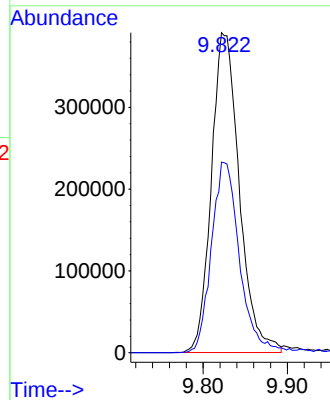
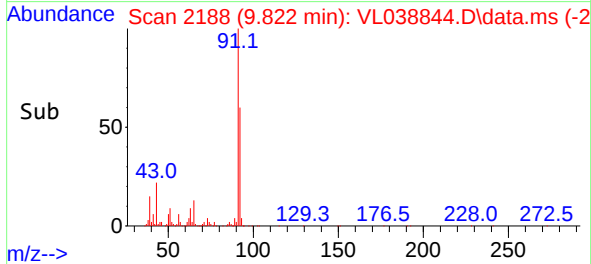
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



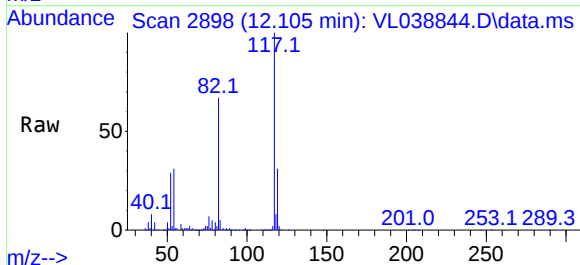
Tgt Ion: 91 Resp: 901119
Ion Ratio Lower Upper
91 100
92 59.9 49.2 73.8

Manual Integrations
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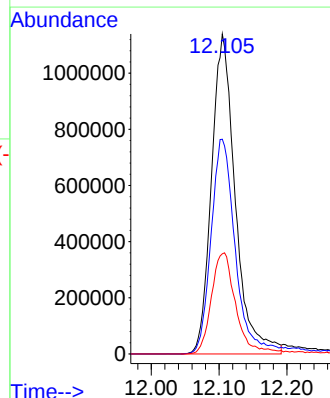
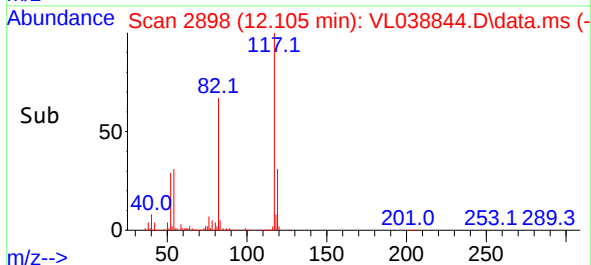
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022

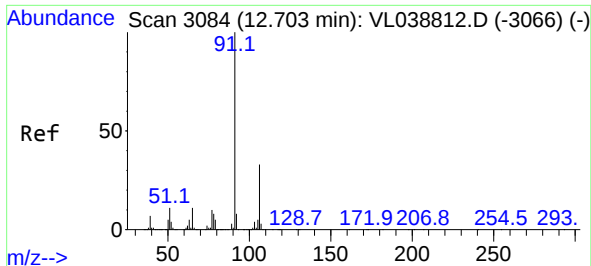


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.105 min Scan# 2898
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55



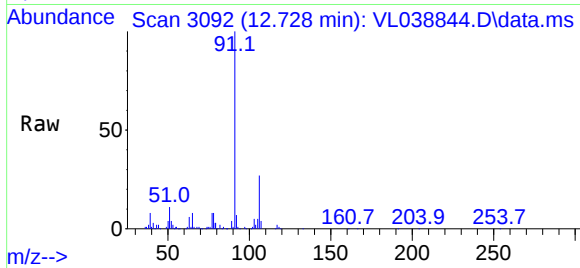
Tgt Ion:117 Resp: 2774519
Ion Ratio Lower Upper
117 100
82 71.7 53.0 79.6
119 32.6 24.9 37.3





#58
Ethyl Benzene
Concen: 0.431 ppbv
RT: 12.728 min Scan# 3092
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

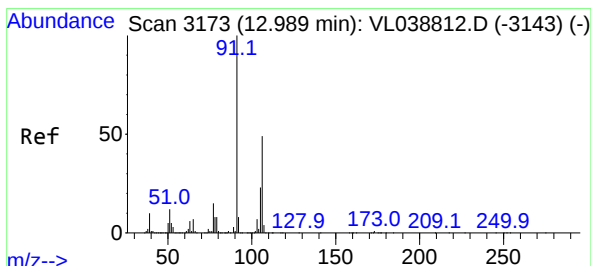
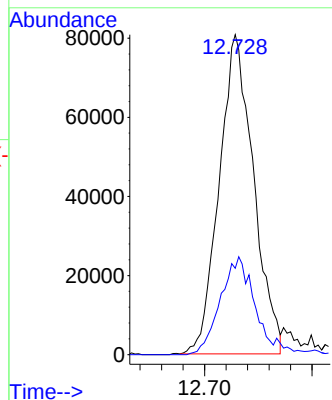
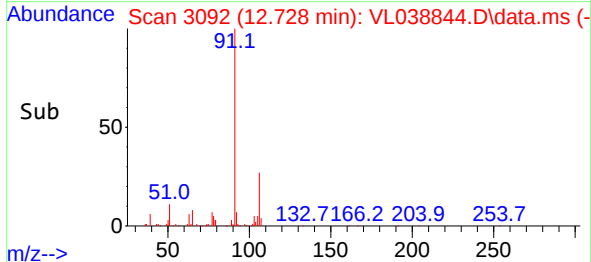
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



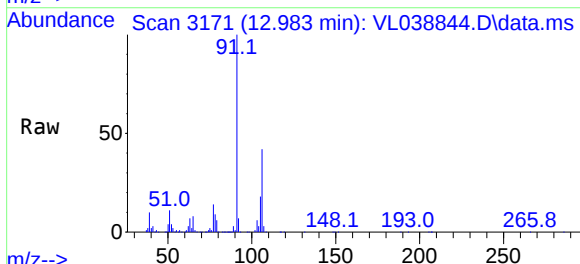
Tgt Ion: 91 Resp: 178528
Ion Ratio Lower Upper
91 100
106 27.1 26.7 40.1

Manual Integrations
APPROVED

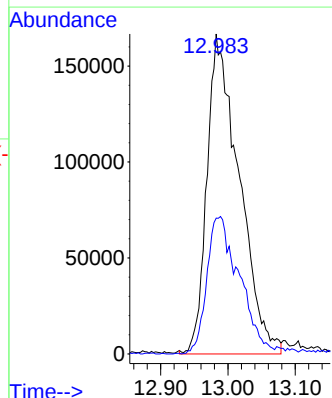
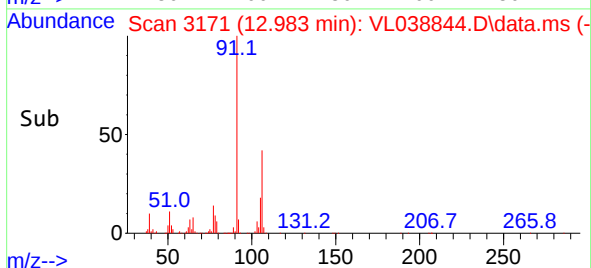
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022

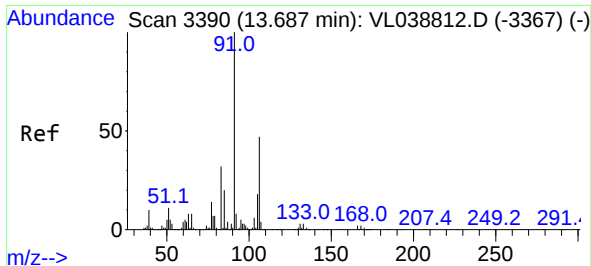


#59
m/p-Xylene
Concen: 1.588 ppbv m
RT: 12.983 min Scan# 3171
Delta R.T. -0.007 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55



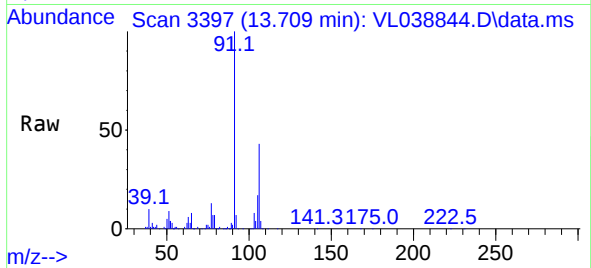
Tgt Ion: 91 Resp: 553137
Ion Ratio Lower Upper
91 100
106 44.7 37.1 55.7





#60
o-Xylene
Concen: 0.549 ppbv
RT: 13.709 min Scan# 31
Delta R.T. 0.022 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

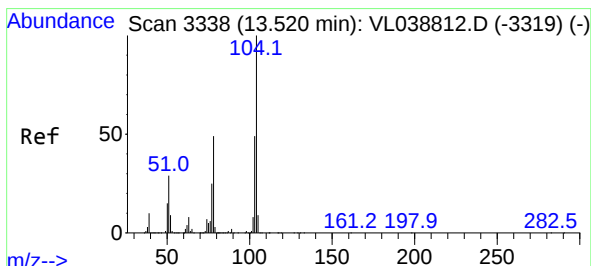
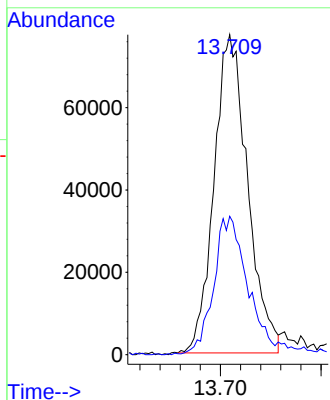
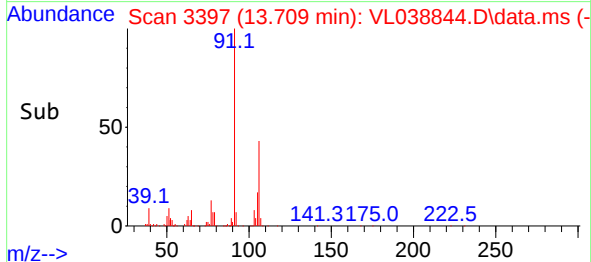
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



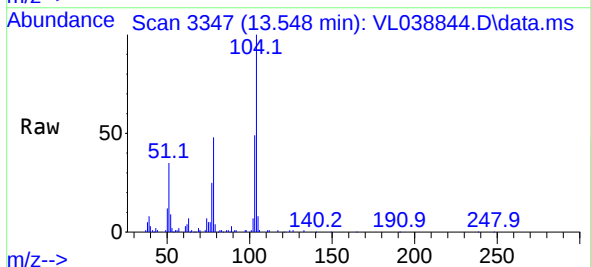
Tgt Ion: 91 Resp: 17893
Ion Ratio Lower Upper
91 100
106 46.9 23.8 71.4

Manual Integrations
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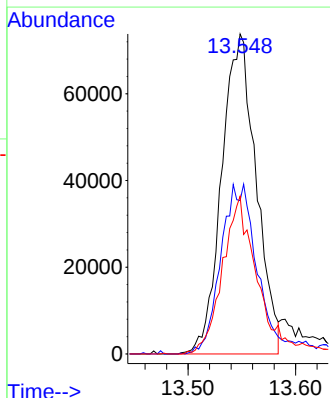
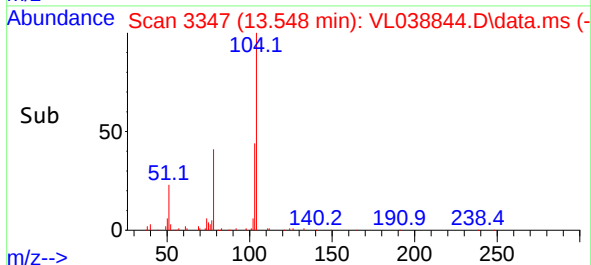
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022

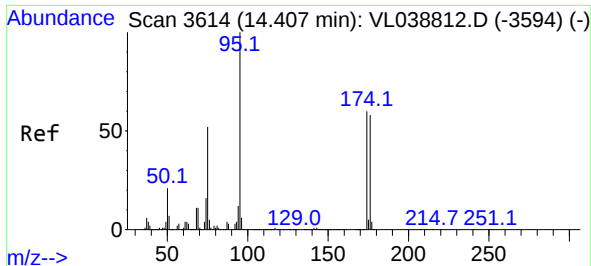


#61
Styrene
Concen: 0.827 ppbv
RT: 13.548 min Scan# 3347
Delta R.T. 0.029 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55



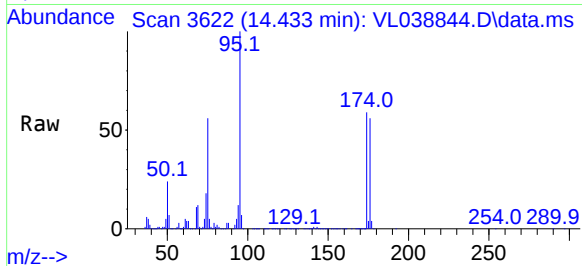
Tgt Ion:104 Resp: 164169
Ion Ratio Lower Upper
104 100
78 59.1 40.5 60.7
103 50.1 39.0 58.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.294 ppbv
RT: 14.433 min Scan# 30
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55

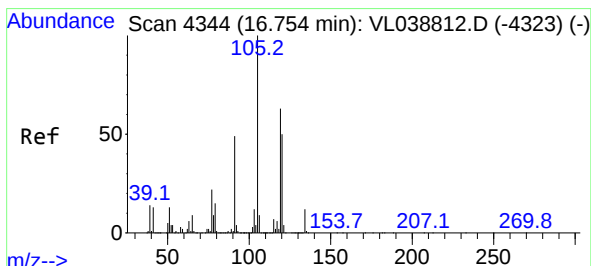
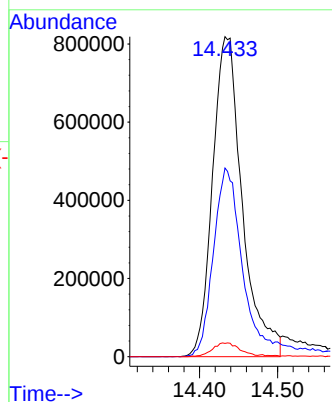
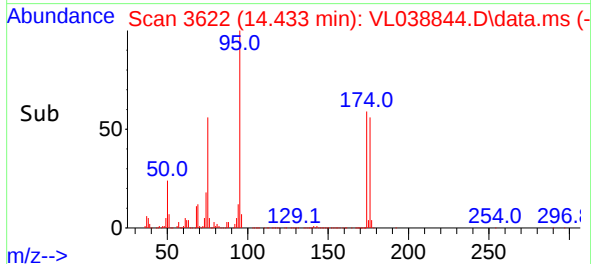
Instrument :
MSVOA_L
ClientSampleId :
1160-1A-1



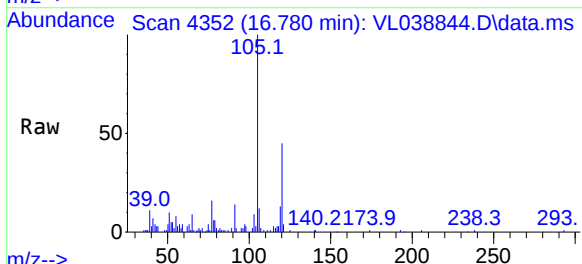
Tgt Ion: 95 Resp: 2166372
Ion Ratio Lower Upper
95 100
174 62.6 52.0 78.0
175 4.4 4.0 6.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.241 ppbv m
RT: 16.780 min Scan# 4352
Delta R.T. 0.026 min
Lab File: VL038844.D
Acq: 7 Apr 2022 16:55



Tgt Ion:105 Resp: 89051
Ion Ratio Lower Upper
105 100
120 44.8 39.8 59.8
91 14.1 39.4 59.0#
77 16.4 17.3 25.9#

