

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
 Data File : VL037950.D
 Acq On : 1 Nov 2021 22:54
 Operator : SY/AP
 Sample : M4426-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

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

Quant Time: Nov 02 06:08:18 2021

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 02 06:08:18 2021

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.655	49	1317375	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.160	114	3786395	10.000	ppbv	-0.01
55) Chlorobenzene-d5	12.063	117	3338919	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.391	95	2409948	9.930	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.041	85	45689	0.246	ppbv	93
3) Chlorodifluoromethane	2.986	51	55248m	0.225	ppbv	
4) Chloromethane	3.134	50	45869m	0.492	ppbv	
9) Propene	3.015	41	71276	0.811	ppbv #	83
10) Heptane	8.105	43	32847m	0.161	ppbv	
11) Trichlorofluoromethane	3.941	101	39725m	0.215	ppbv	
13) Ethanol	3.600	45	280892m	31.666	ppbv	
15) Acetone	3.845	43	1237832	11.371	ppbv	95
19) Isopropyl Alcohol	3.970	45	152395	2.189	ppbv #	1
20) Methylene Chloride	4.336	84	95732	1.602	ppbv #	87
26) Hexane	5.677	57	114759	0.749	ppbv	80
34) 2-Butanone	5.246	43	125998m	0.898	ppbv	
35) Carbon Tetrachloride	7.002	117	12856m	0.056	ppbv	
36) Benzene	6.870	78	68520m	0.222	ppbv	
38) Trichloroethene	7.815	130	12452m	0.097	ppbv	
44) 2,2,4-Trimethylpentane	7.860	57	77319m	0.147	ppbv	
50) 4-Methyl-2-Pentanone	8.748	43	52779m	0.286	ppbv	
52) Tetrachloroethene	11.192	164	4280m	0.037	ppbv	
53) Toluene	9.790	91	781417	2.364	ppbv	99
58) Ethyl Benzene	12.693	91	152510	0.374	ppbv	96
59) m/p-Xylene	12.947	91	597170m	1.645	ppbv	
60) o-Xylene	13.671	91	144091m	0.421	ppbv	
72) 4-Ethyltoluene	15.812	105	50038	0.128	ppbv #	84
73) 1,3,5-Trimethylbenzene	15.969	105	60573m	0.165	ppbv	
74) 1,2,4-Trimethylbenzene	16.738	105	199188m	0.518	ppbv	

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

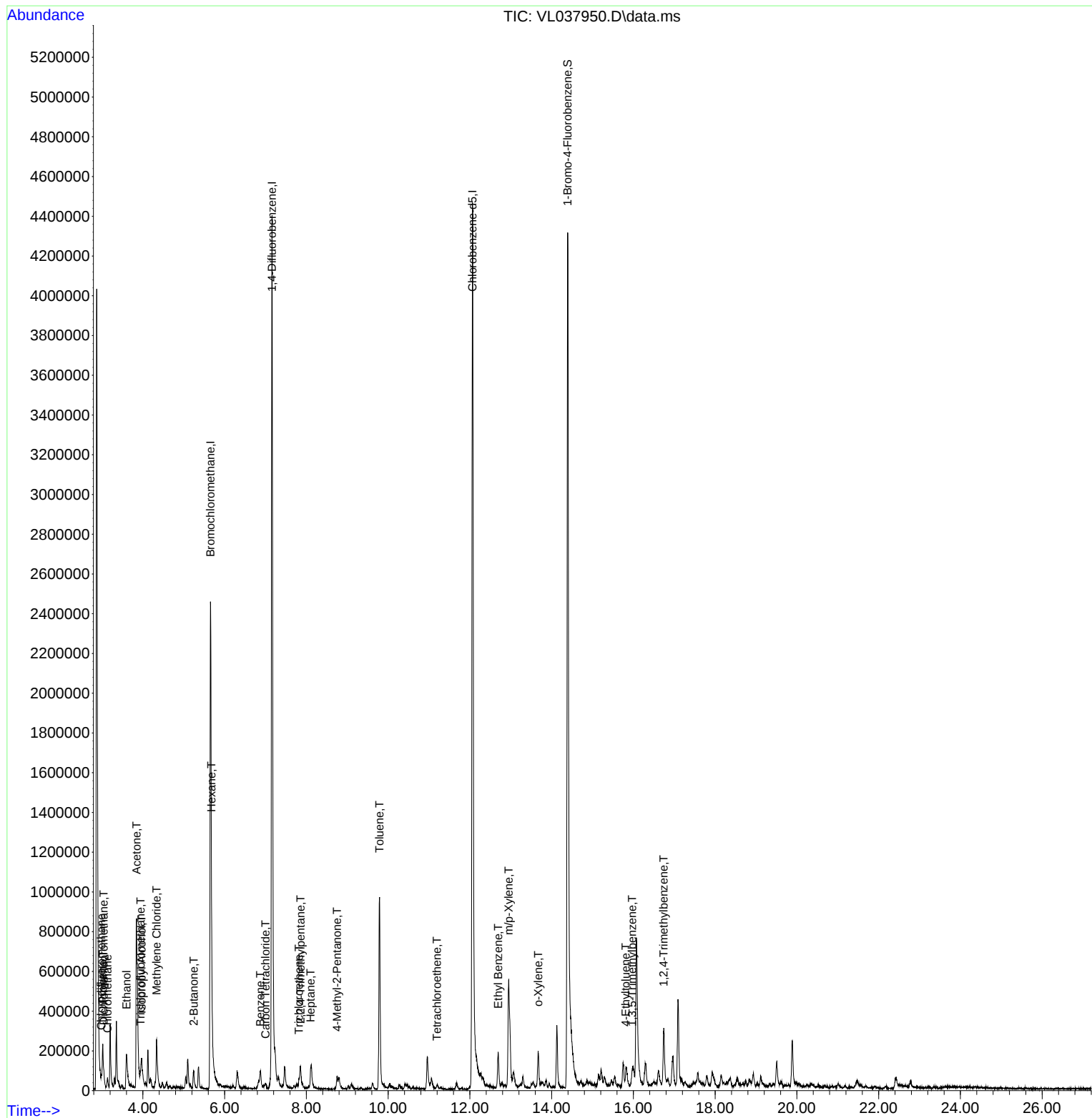
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
Data File : VL037950.D
Acq On : 1 Nov 2021 22:54
Operator : SY/AP
Sample : M4426-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

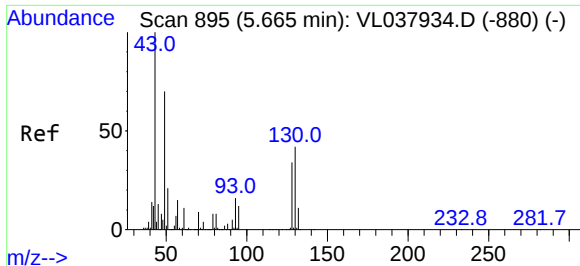
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Nov 02 06:08:18 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration

Manual Integrations
APPROVED

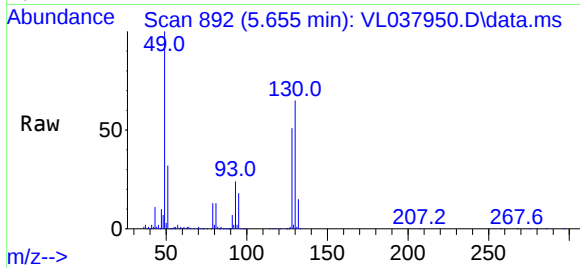
Reviewed By : Semsettin Yesilyurt 11/05/2021
Supervised By : Mahesh Dadoda 11/10/2021





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.655 min Scan# 895
Delta R.T. -0.010 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

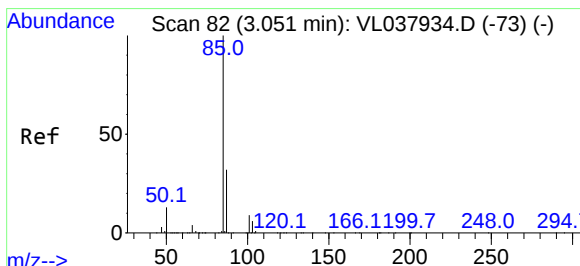
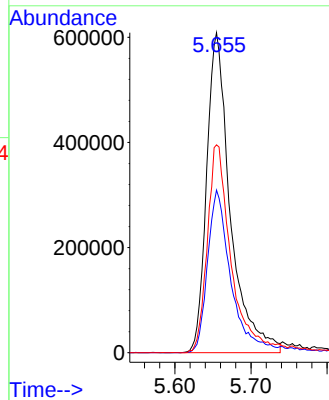
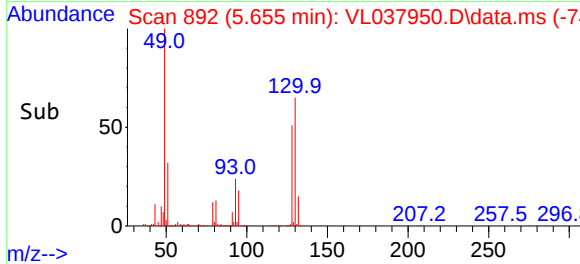
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 131737
Ion Ratio Lower Upper
49 100
128 52.5 27.0 81.0
130 67.8 33.4 100.2

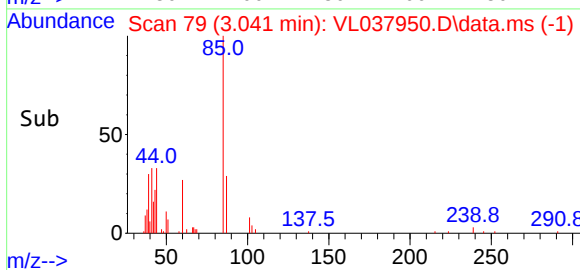
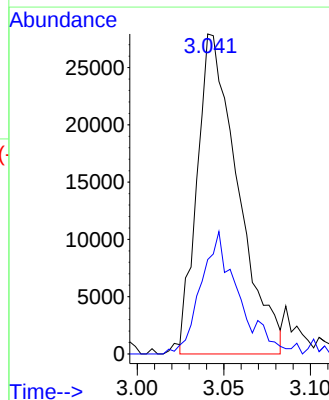
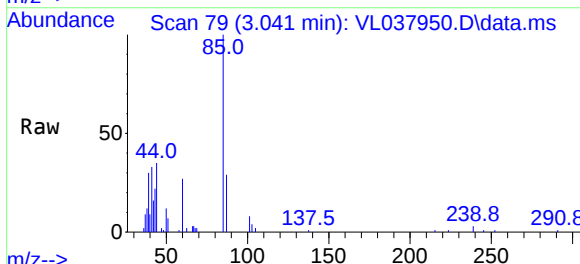
Manual Integrations
APPROVED

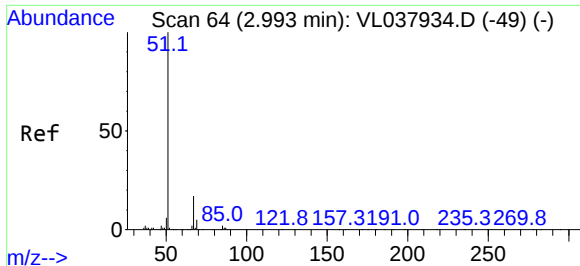
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#2
Dichlorodifluoromethane
Concen: 0.246 ppbv
RT: 3.041 min Scan# 79
Delta R.T. -0.010 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Tgt Ion: 85 Resp: 45689
Ion Ratio Lower Upper
85 100
87 27.9 25.3 37.9





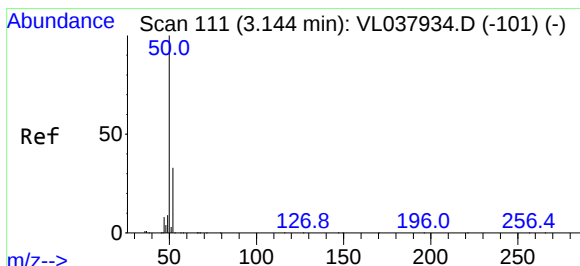
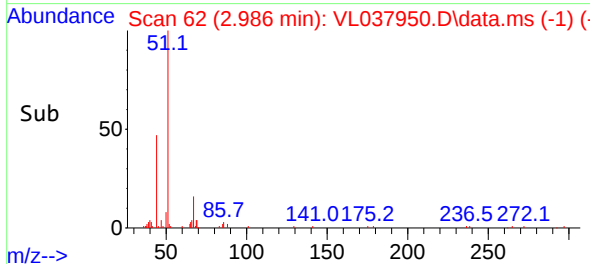
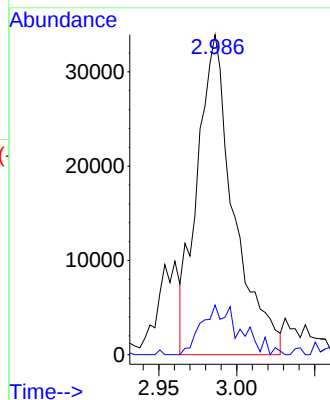
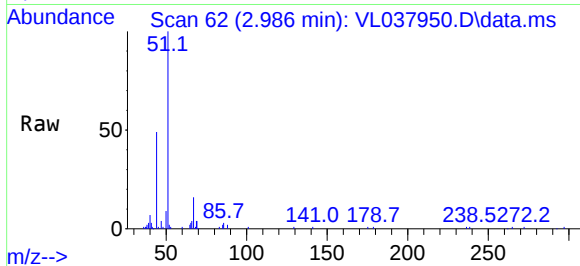
#3
Chlorodifluoromethane
Concen: 0.225 ppbv m
RT: 2.986 min Scan# 61
Delta R.T. -0.007 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 55248
Ion Ratio Lower Upper
51 100
67 16.2 13.4 20.0

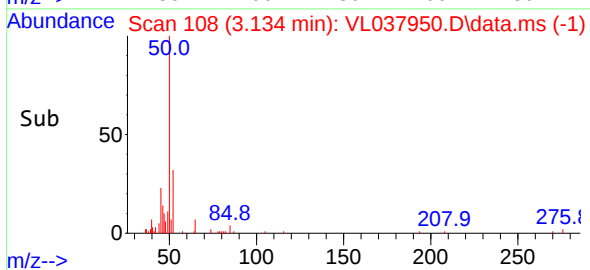
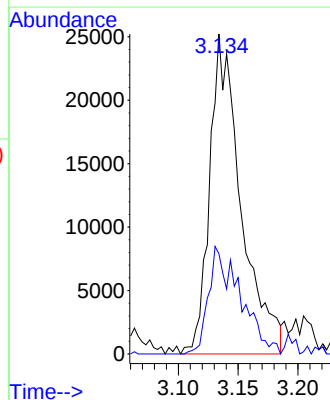
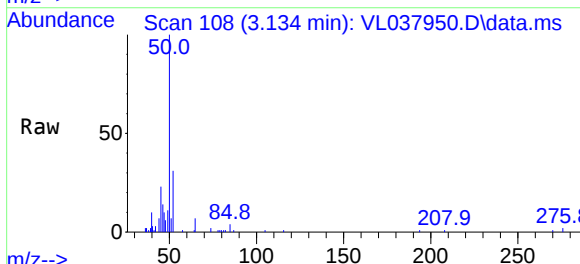
Manual Integrations
APPROVED

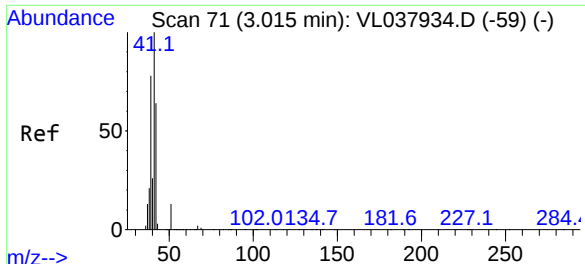
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#4
Chloromethane
Concen: 0.492 ppbv m
RT: 3.134 min Scan# 108
Delta R.T. -0.010 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

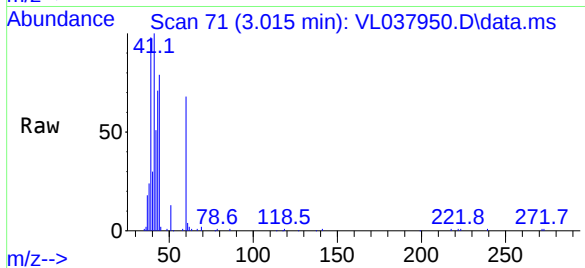
Tgt Ion: 50 Resp: 45869
Ion Ratio Lower Upper
50 100
52 31.3 26.3 39.5





#9
Propene
Concen: 0.811 ppbv
RT: 3.015 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

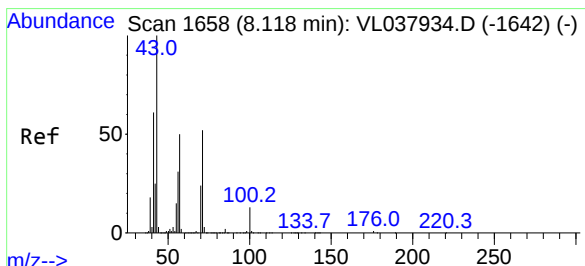
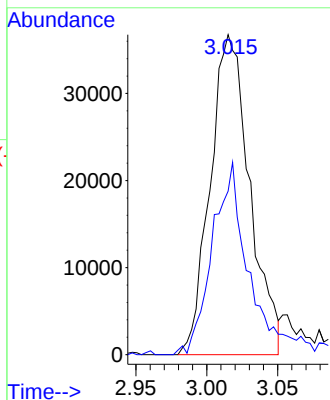
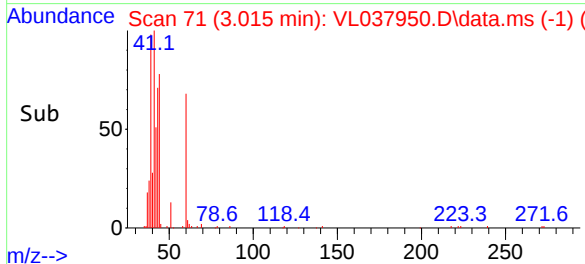
Instrument :
MSVOA_L
ClientSampleId :
OA1



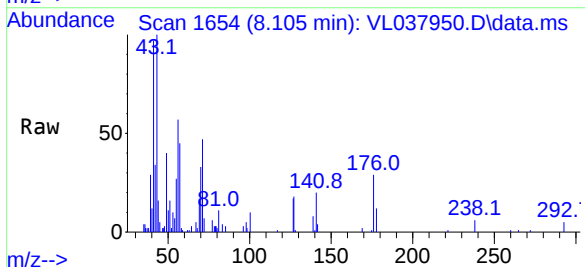
Tgt Ion: 41 Resp: 71270
Ion Ratio Lower Upper
41 100
42 57.5 57.6 86.4

Manual Integrations
APPROVED

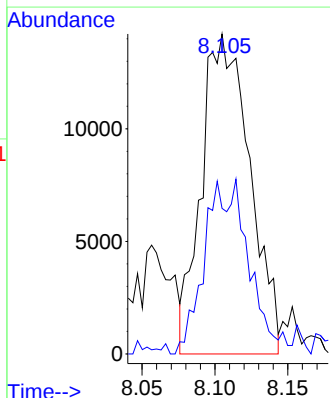
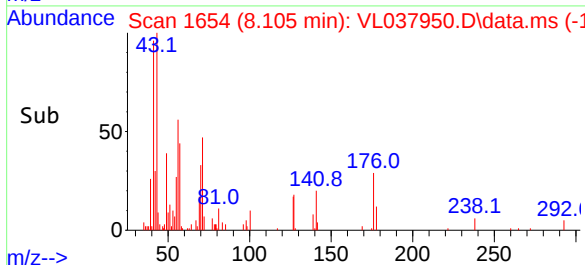
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

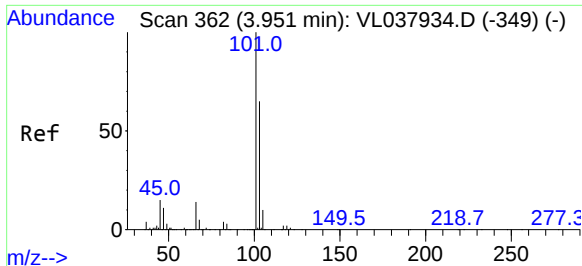


#10
Heptane
Concen: 0.161 ppbv m
RT: 8.105 min Scan# 1654
Delta R.T. -0.013 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54



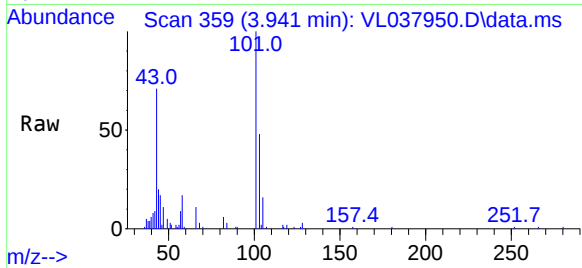
Tgt Ion: 43 Resp: 32847
Ion Ratio Lower Upper
43 100
57 0.0 39.8 59.8





#11
Trichlorofluoromethane
Concen: 0.215 ppbv m
RT: 3.941 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

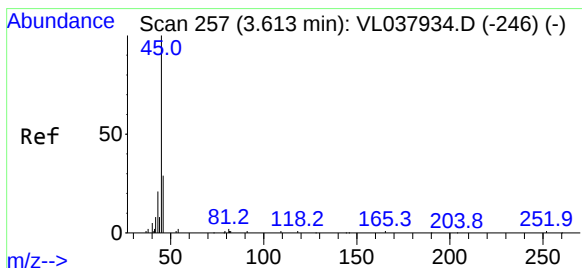
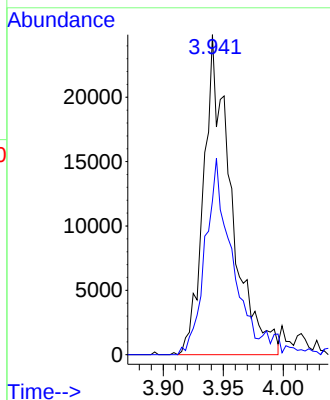
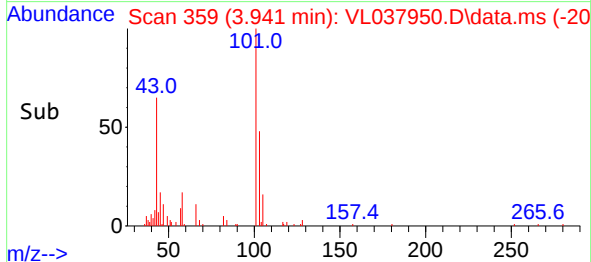
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:101 Resp: 39725
Ion Ratio Lower Upper
101 100
103 48.1 52.0 78.0

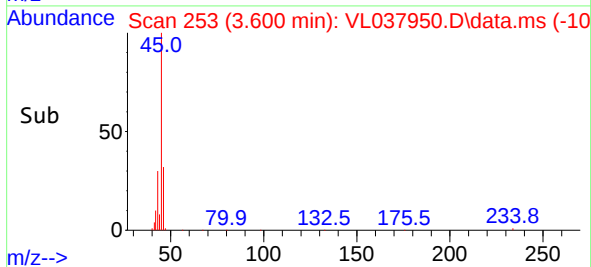
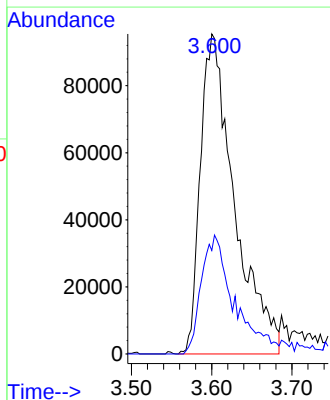
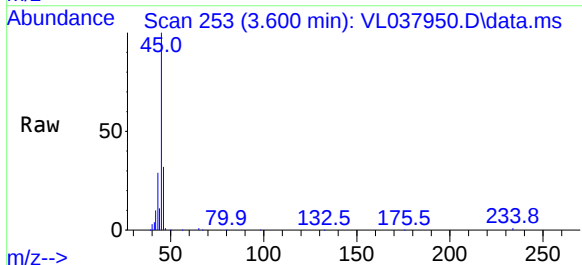
Manual Integrations
APPROVED

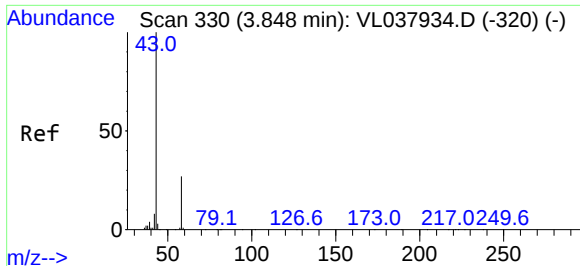
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#13
Ethanol
Concen: 31.666 ppbv m
RT: 3.600 min Scan# 253
Delta R.T. -0.013 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Tgt Ion: 45 Resp: 280892
Ion Ratio Lower Upper
45 100
46 39.7 17.4 69.8





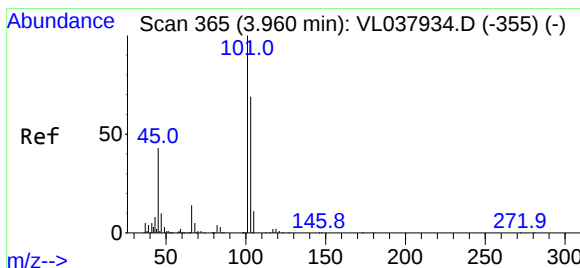
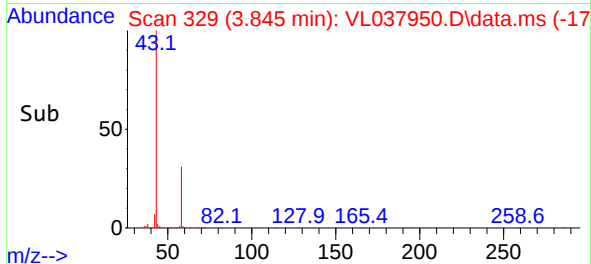
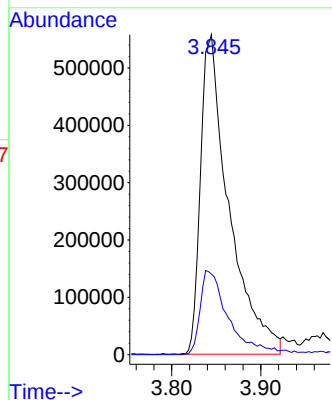
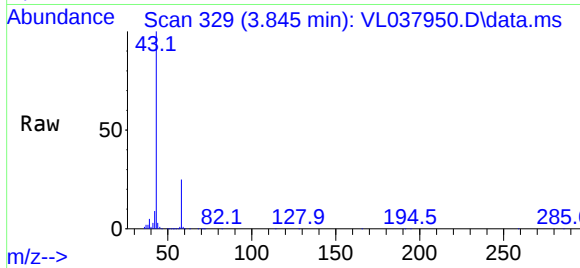
#15
Acetone
Concen: 11.371 ppbv
RT: 3.845 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 123783
Ion Ratio Lower Upper
43 100
58 26.7 23.3 34.9

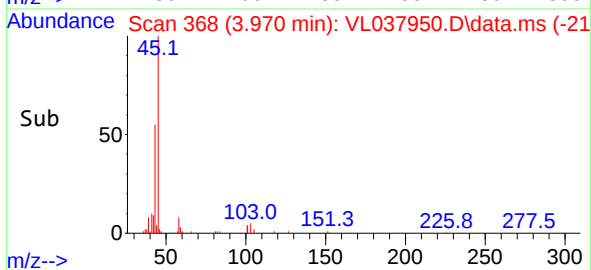
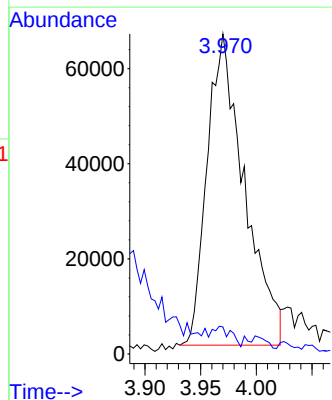
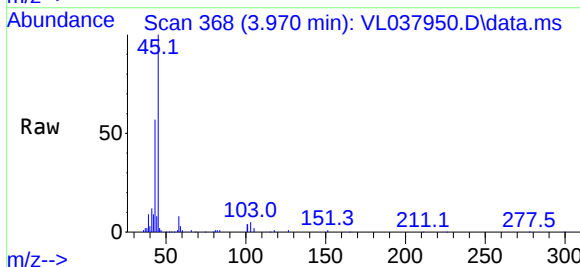
Manual Integrations
APPROVED

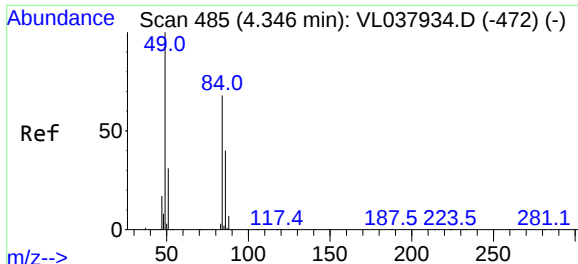
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#19
Isopropyl Alcohol
Concen: 2.189 ppbv
RT: 3.970 min Scan# 368
Delta R.T. 0.009 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

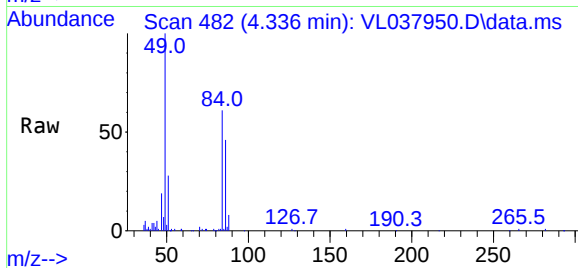
Tgt Ion: 45 Resp: 152395
Ion Ratio Lower Upper
45 100
58 217.9 4.0 6.0#





#20
Methylene Chloride
Concen: 1.602 ppbv
RT: 4.336 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

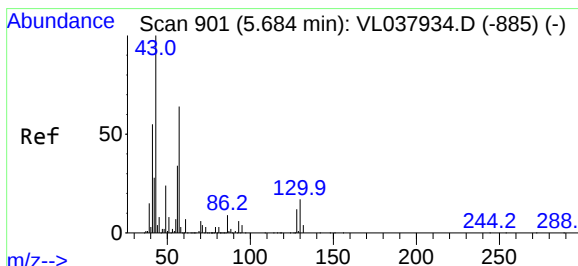
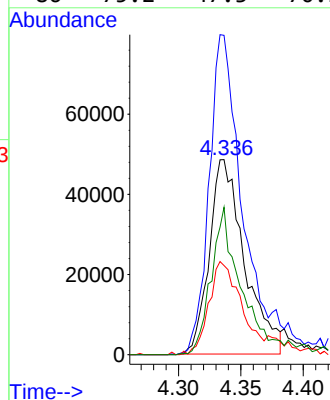
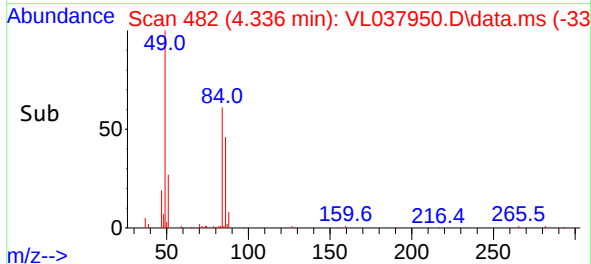
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 84 Resp: 95732
Ion Ratio Lower Upper
84 100
49 163.7 117.5 176.3
51 45.8 35.9 53.9
86 75.2 47.3 70.9#

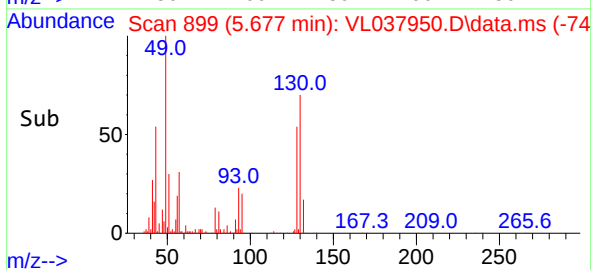
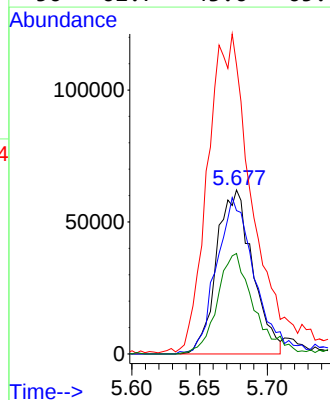
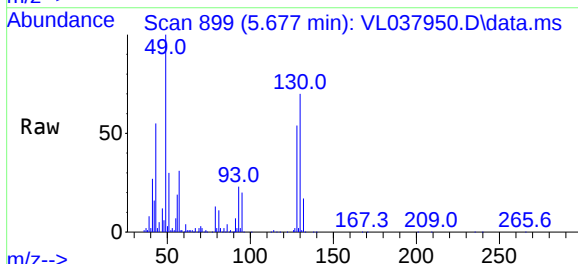
Manual Integrations
APPROVED

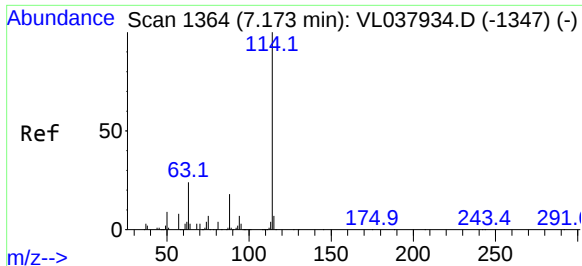
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#26
Hexane
Concen: 0.749 ppbv
RT: 5.677 min Scan# 899
Delta R.T. -0.007 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

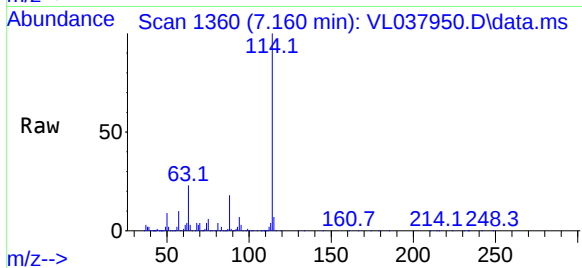
Tgt Ion: 57 Resp: 114759
Ion Ratio Lower Upper
57 100
41 106.0 71.0 106.6
43 253.1 173.0 259.6
56 62.7 43.6 65.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.160 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

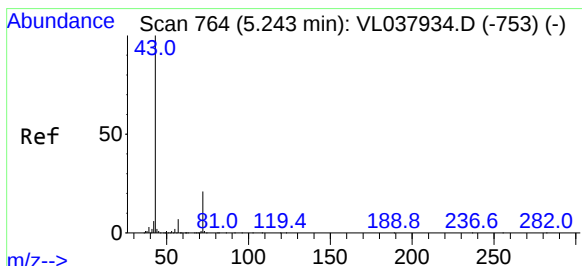
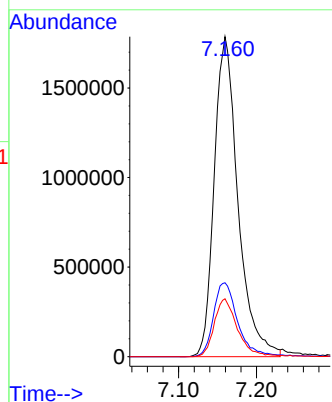
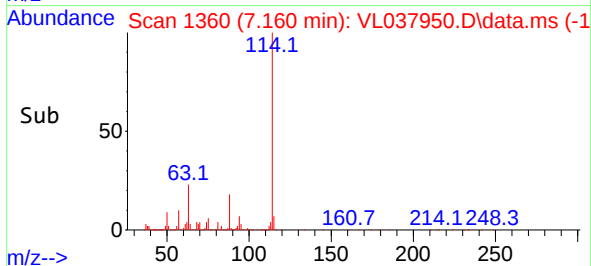
Instrument :
MSVOA_L
ClientSampleId :
OA1



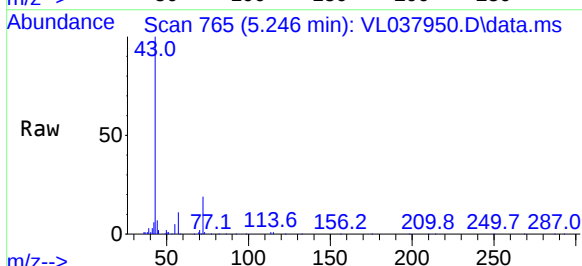
Tgt Ion:114 Resp: 378639
Ion Ratio Lower Upper
114 100
63 23.9 19.4 29.0
88 17.9 14.2 21.4

Manual Integrations
APPROVED

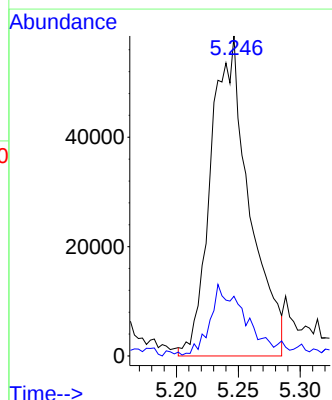
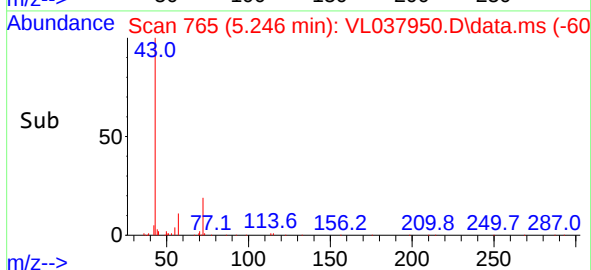
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

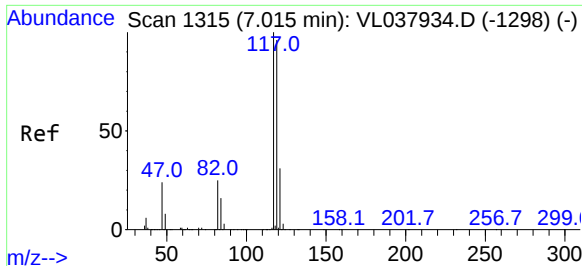


#34
2-Butanone
Concen: 0.898 ppbv m
RT: 5.246 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54



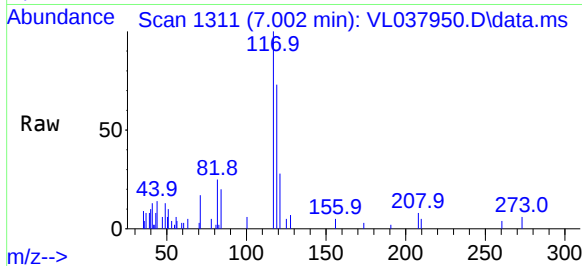
Tgt Ion: 43 Resp: 125998
Ion Ratio Lower Upper
43 100
72 23.9 18.3 27.5





#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 7.002 min Scan# 111
Delta R.T. -0.013 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

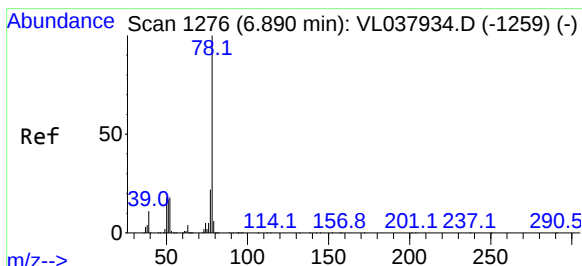
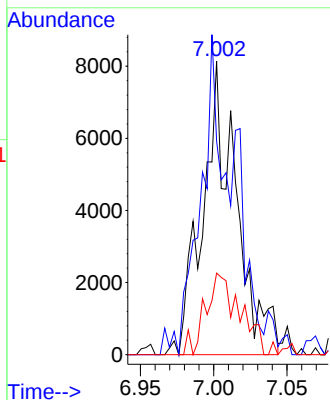
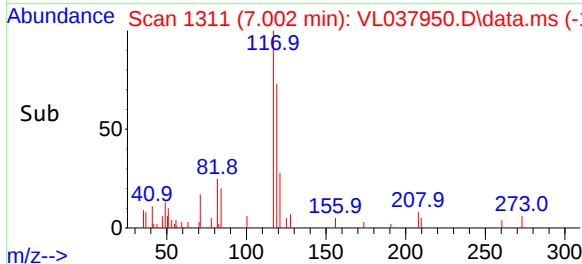
Instrument :
MSVOA_L
ClientSampleId :
OA1



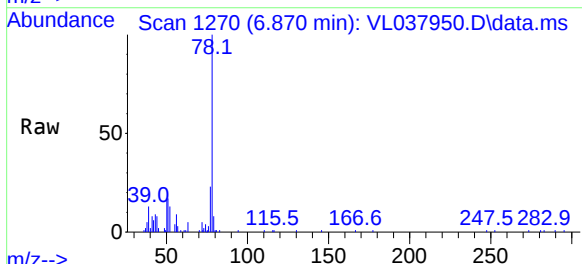
Tgt Ion: 117 Resp: 12850
Ion Ratio Lower Upper
117 100
119 72.8 76.6 114.8
121 27.8 25.1 37.7

Manual Integrations
APPROVED

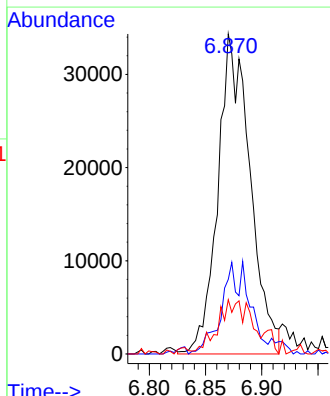
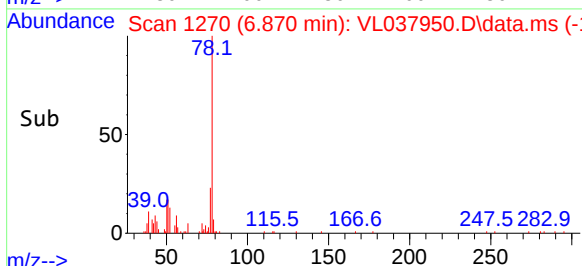
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

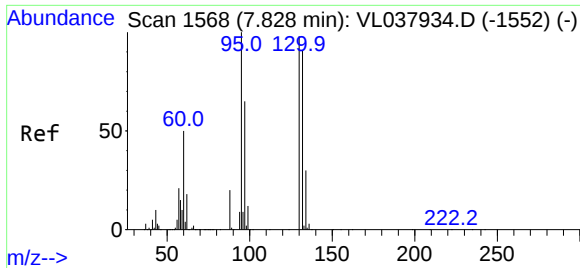


#36
Benzene
Concen: 0.222 ppbv m
RT: 6.870 min Scan# 1270
Delta R.T. -0.019 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54



Tgt Ion: 78 Resp: 68520
Ion Ratio Lower Upper
78 100
77 23.3 17.9 26.9
50 17.0 14.4 21.6





#38
Trichloroethene
Concen: 0.097 ppbv m
RT: 7.815 min Scan# 1564
Delta R.T. -0.013 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

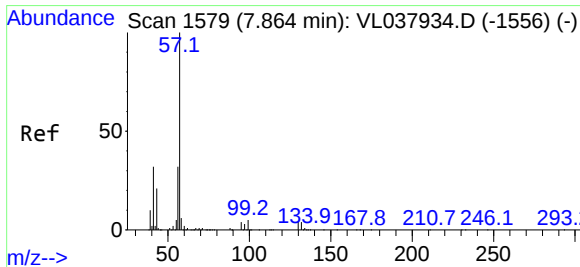
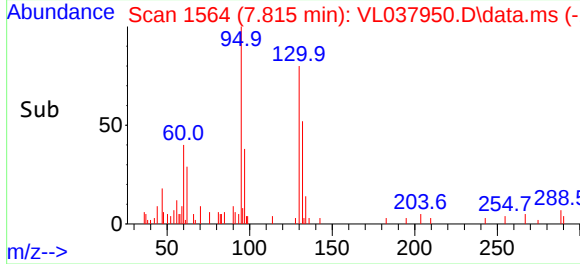
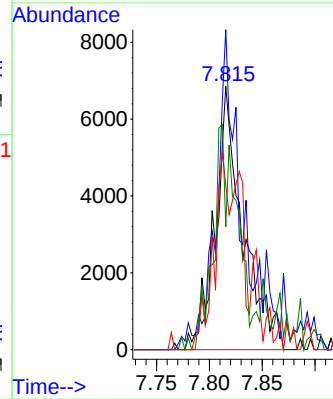
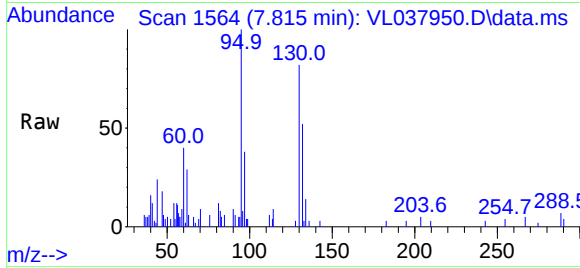
Instrument : MSVOA_L
ClientSampleId : OA1

Tgt Ion:130 Resp: 12452

Ion	Ratio	Lower	Upper
130	100		
95	121.4	81.8	122.8
132	62.6	74.2	111.2
97	46.7	53.4	80.2

Manual Integrations
APPROVED

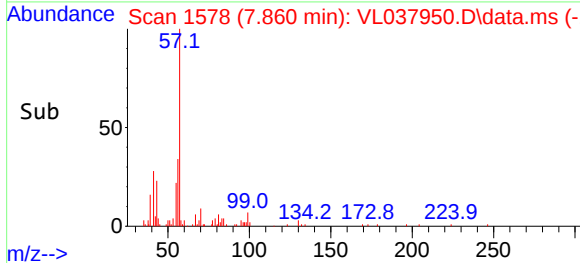
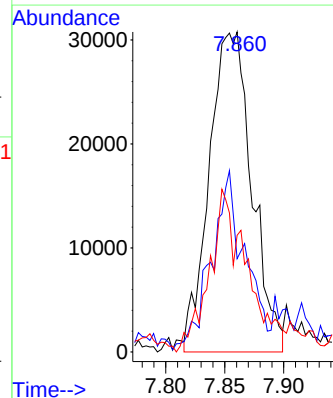
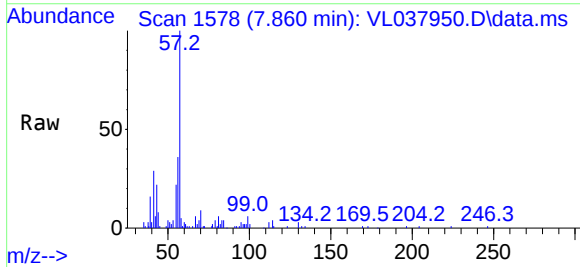
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021

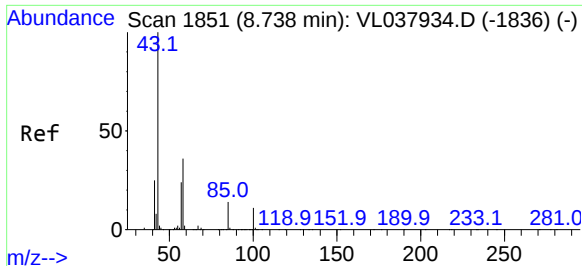


#44
2,2,4-Trimethylpentane
Concen: 0.147 ppbv m
RT: 7.860 min Scan# 1578
Delta R.T. -0.003 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Tgt Ion: 57 Resp: 77319

Ion	Ratio	Lower	Upper
57	100		
41	59.0	25.8	38.8
56	49.8	25.9	38.9





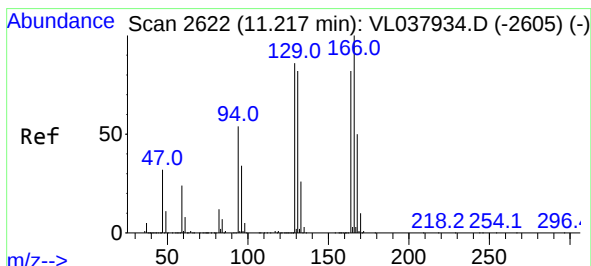
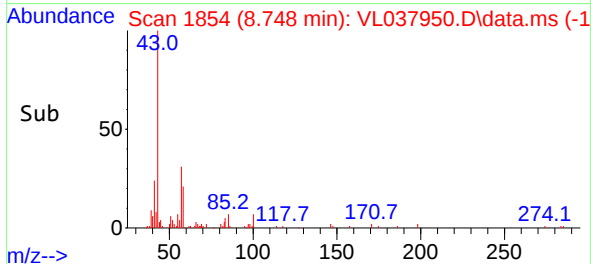
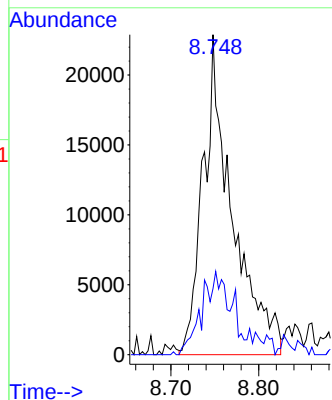
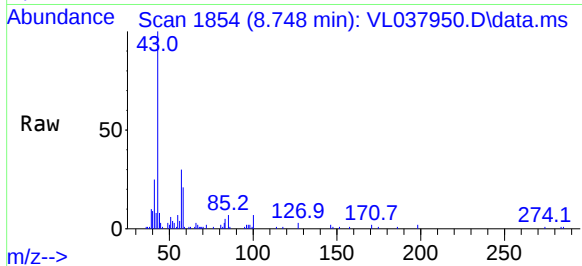
#50
4-Methyl-2-Pentanone
Concen: 0.286 ppbv m
RT: 8.748 min Scan# 11
Delta R.T. 0.009 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 52779
Ion Ratio Lower Upper
43 100
58 0.0 28.8 43.2

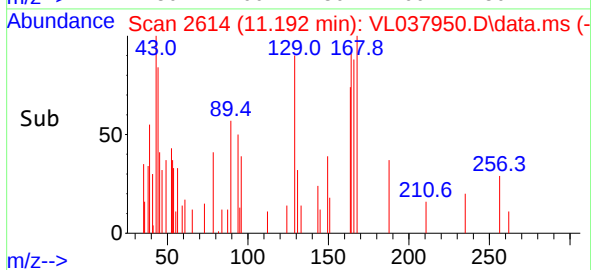
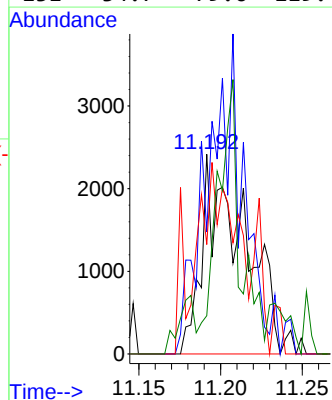
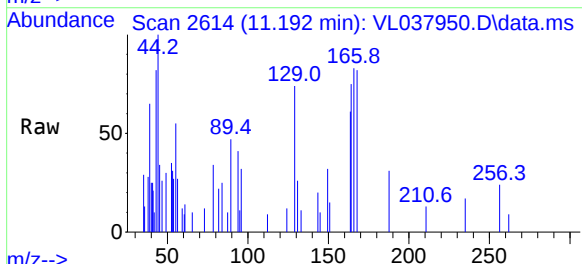
Manual Integrations
APPROVED

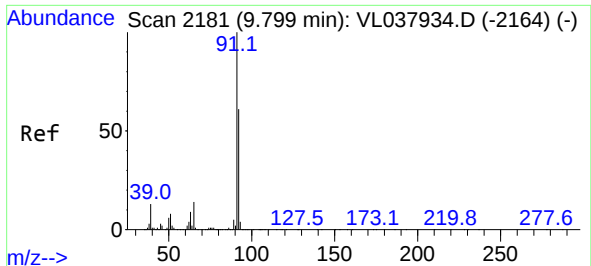
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#52
Tetrachloroethene
Concen: 0.037 ppbv m
RT: 11.192 min Scan# 2614
Delta R.T. -0.026 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Tgt Ion:164 Resp: 4280
Ion Ratio Lower Upper
164 100
166 110.7 97.6 146.4
129 99.4 84.2 126.2
131 34.7 79.6 119.4





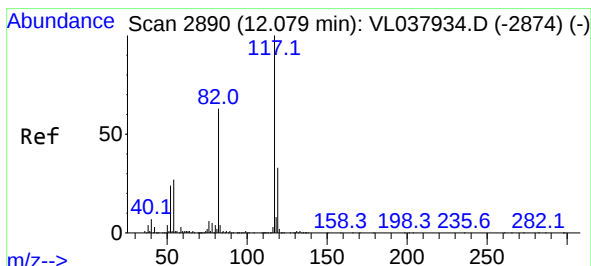
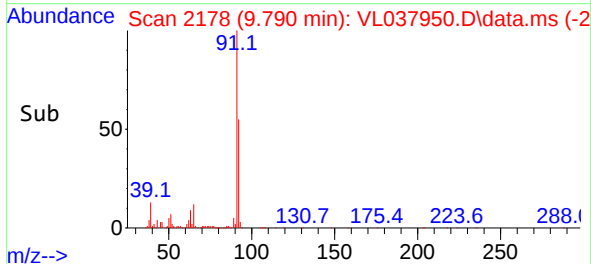
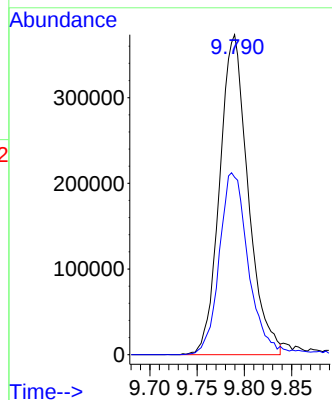
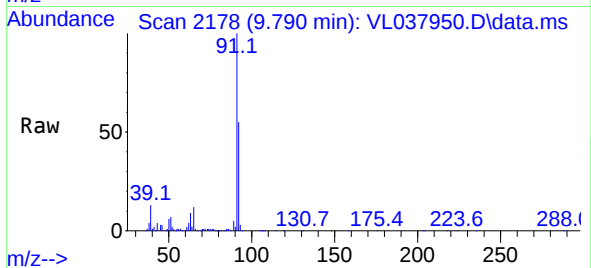
#53
Toluene
Concen: 2.364 ppbv
RT: 9.790 min Scan# 2181
Delta R.T. -0.010 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 78141
Ion Ratio Lower Upper
91 100
92 59.4 48.2 72.4

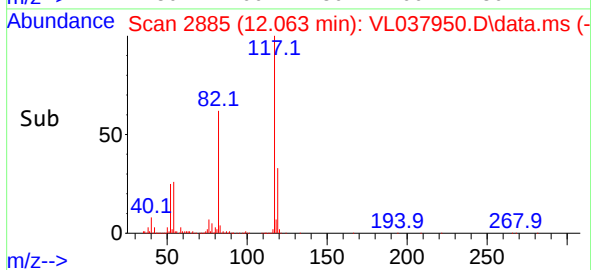
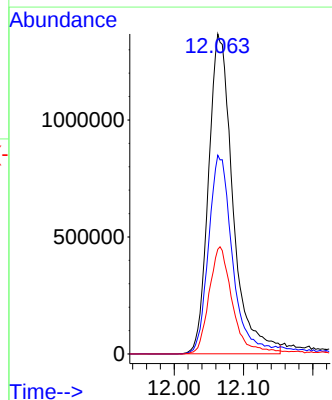
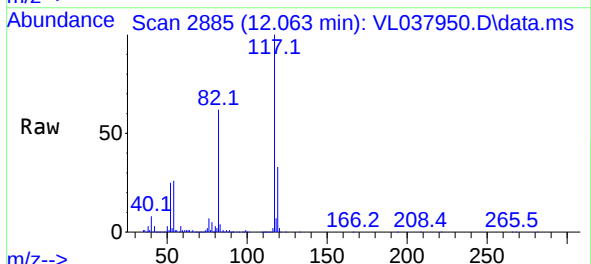
Manual Integrations
APPROVED

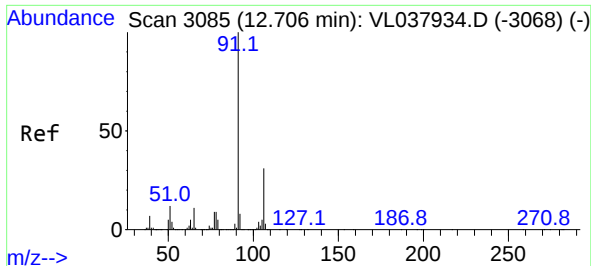
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.063 min Scan# 2885
Delta R.T. -0.016 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Tgt Ion:117 Resp: 3338919
Ion Ratio Lower Upper
117 100
82 64.4 51.0 76.6
119 33.5 26.9 40.3





#58

Ethyl Benzene

Concen: 0.374 ppbv

RT: 12.693 min Scan# 3085

Delta R.T. -0.013 min

Lab File: VL037950.D

Acq: 1 Nov 2021 22:54

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 91 Resp: 152510

Ion Ratio Lower Upper

91 100

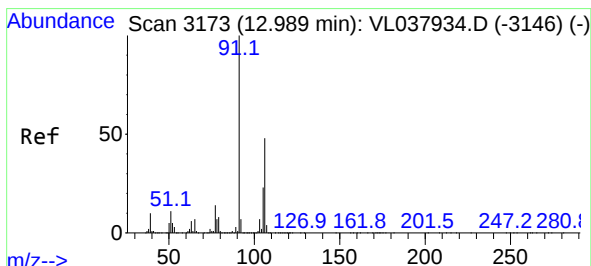
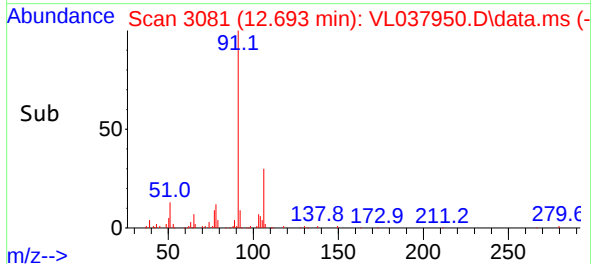
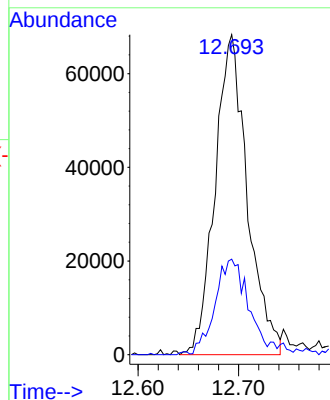
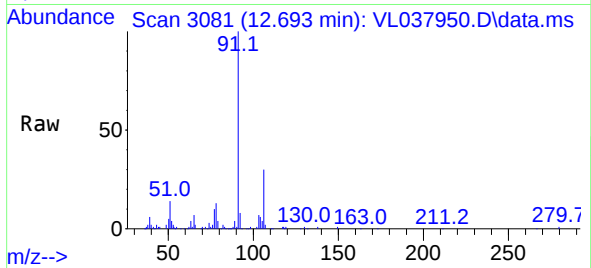
106 29.3 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/05/2021

Supervised By :Mahesh Dadoda 11/10/2021



#59

m/p-Xylene

Concen: 1.645 ppbv m

RT: 12.947 min Scan# 3160

Delta R.T. -0.042 min

Lab File: VL037950.D

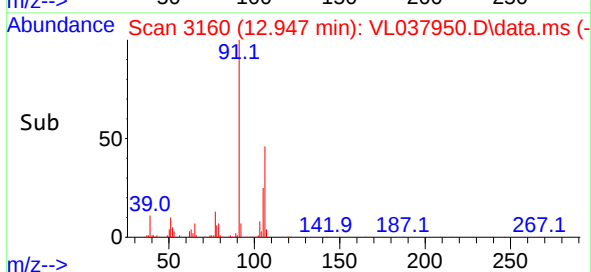
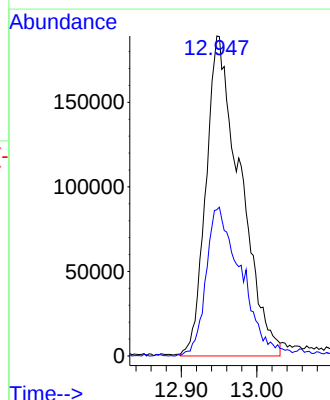
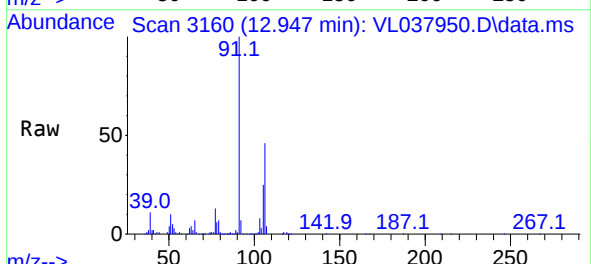
Acq: 1 Nov 2021 22:54

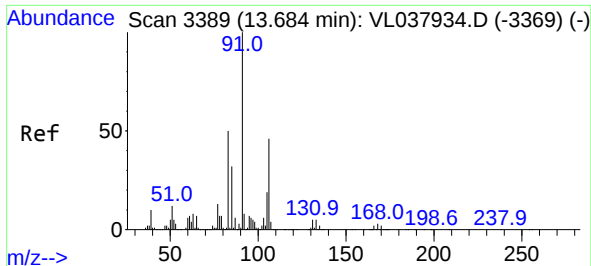
Tgt Ion: 91 Resp: 597170

Ion Ratio Lower Upper

91 100

106 0.0 37.1 55.7#





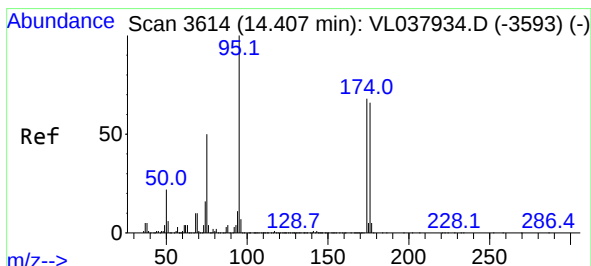
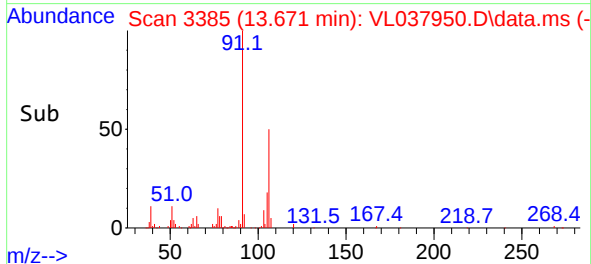
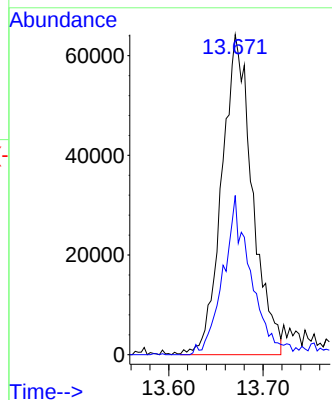
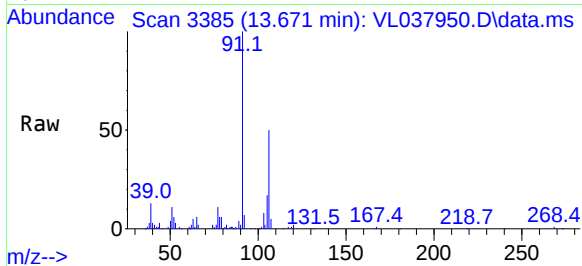
#60
o-Xylene
Concen: 0.421 ppbv m
RT: 13.671 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 14409
Ion Ratio Lower Upper
91 100
106 45.9 23.5 70.6

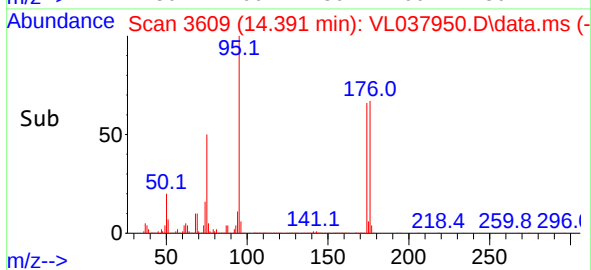
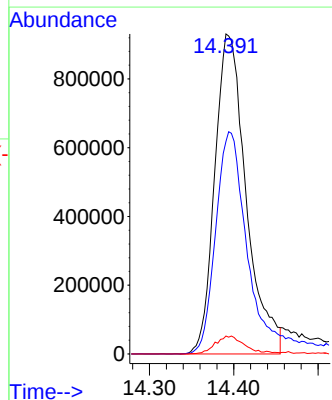
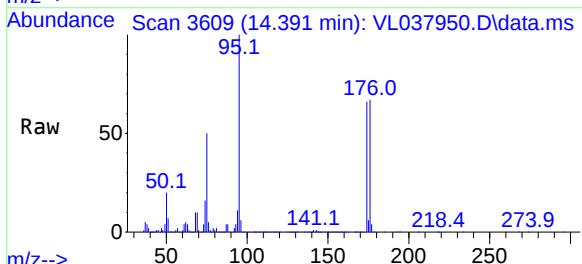
Manual Integrations
APPROVED

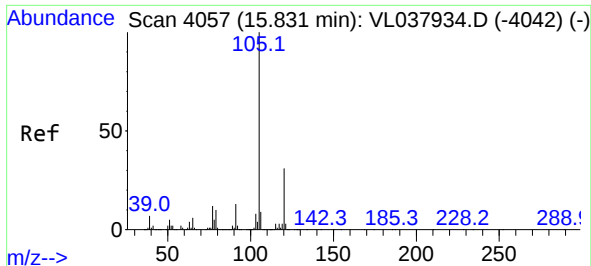
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 9.930 ppbv
RT: 14.391 min Scan# 3609
Delta R.T. -0.016 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Tgt Ion: 95 Resp: 2409948
Ion Ratio Lower Upper
95 100
174 76.3 58.3 87.5
175 5.6 4.6 6.8





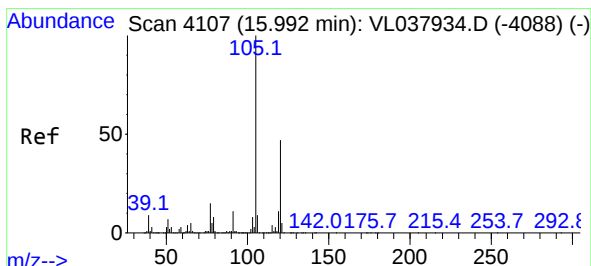
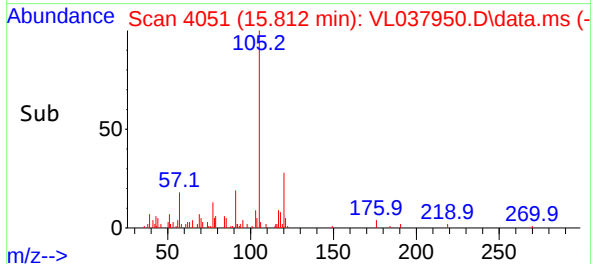
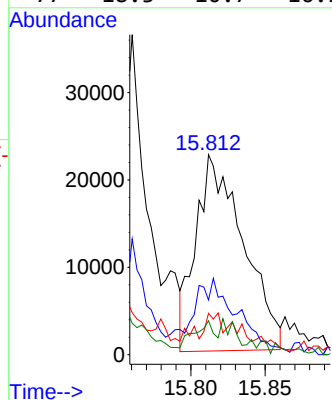
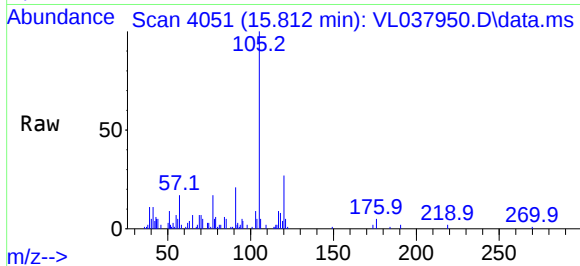
#72
4-Ethyltoluene
Concen: 0.128 ppbv
RT: 15.812 min Scan# 4051
Delta R.T. -0.019 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:105 Resp: 50038
Ion Ratio Lower Upper
105 100
120 39.7 25.3 37.9
91 20.9 9.9 14.9
77 18.3 10.7 16.1

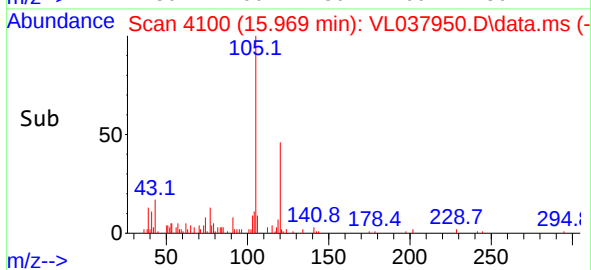
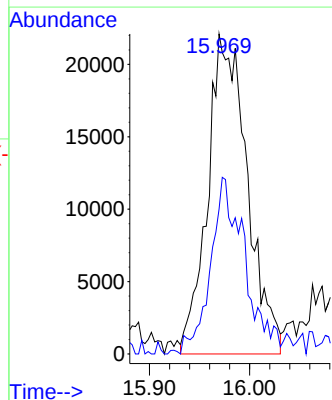
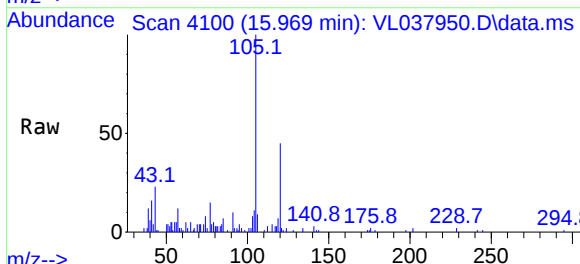
Manual Integrations
APPROVED

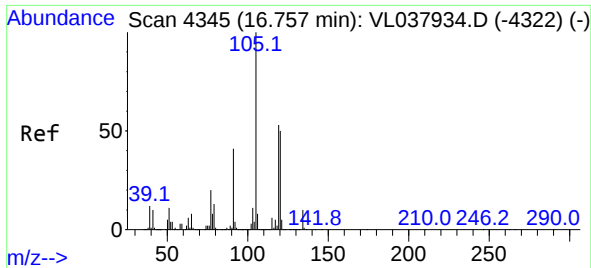
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/10/2021



#73
1,3,5-Trimethylbenzene
Concen: 0.165 ppbv m
RT: 15.969 min Scan# 4100
Delta R.T. -0.023 min
Lab File: VL037950.D
Acq: 1 Nov 2021 22:54

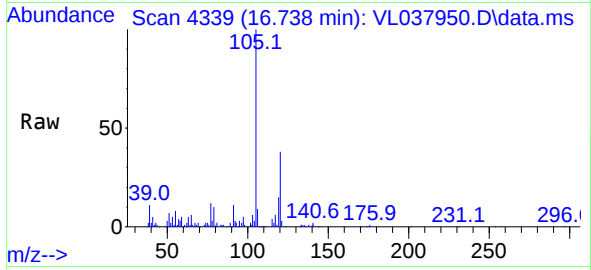
Tgt Ion:105 Resp: 60573
Ion Ratio Lower Upper
105 100
120 45.3 37.9 56.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.518 ppbv m
 RT: 16.738 min Scan# 4339
 Delta R.T. -0.019 min
 Lab File: VL037950.D
 Acq: 1 Nov 2021 22:54

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion:105 Resp: 19918

Ion	Ratio	Lower	Upper
105	100		
120	38.3	40.0	60.0
91	10.9	32.6	49.0
77	12.4	15.8	23.8

Manual Integrations
 APPROVED

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

