

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010923\
 Data File : VL040076.D
 Acq On : 9 Jan 2023 15:16
 Operator : SY/MD
 Sample : 01074-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UR-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/11/2023
 Supervised By : Mahesh Dadoda 01/11/2023

Quant Time: Jan 10 00:47:13 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Tue Jan 10 00:22:08 2023

Response via : Initial Calibration

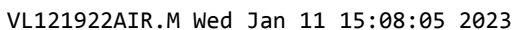
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

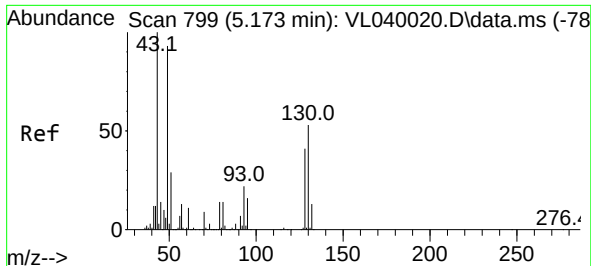
Internal Standards						
1) Bromochloromethane	5.188	49	1070965	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2893782	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2556310	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1990921	10.196	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.716	85	38953	0.194	ppbv	92
4) Chloromethane	2.799	50	68075	0.688	ppbv	99
9) Propene	2.690	41	55898	0.834	ppbv #	73
10) Heptane	7.577	43	25600m	0.156	ppbv	
11) Trichlorofluoromethane	3.555	101	40824	0.187	ppbv	98
13) Ethanol	3.234	45	376943	59.725	ppbv	96
15) Acetone	3.459	43	1798267	10.854	ppbv	98
19) Isopropyl Alcohol	3.578	45	103357m	1.266	ppbv	
20) Methylene Chloride	3.925	84	2707351	38.445	ppbv	97
26) Hexane	5.211	57	2939389	24.375	ppbv #	36
30) Cyclohexane	6.600	84	20846m	0.195	ppbv	
34) 2-Butanone	4.787	43	108415	0.691	ppbv	98
35) Carbon Tetrachloride	6.487	117	10554m	0.059	ppbv	
36) Benzene	6.368	78	80150	0.310	ppbv	97
41) Tetrahydrofuran	5.561	42	95704	0.977	ppbv	99
44) 2,2,4-Trimethylpentane	7.333	57	45807m	0.108	ppbv	
52) Tetrachloroethene	10.632	164	3682m	0.042	ppbv	
53) Toluene	9.227	91	322563	1.127	ppbv	100
58) Ethyl Benzene	12.098	91	88435	0.243	ppbv	99
59) m/p-Xylene	12.352	91	257278m	0.813	ppbv	
60) o-Xylene	13.063	91	103270m	0.341	ppbv	
72) 4-Ethyltoluene	15.201	105	37751m	0.112	ppbv	
73) 1,3,5-Trimethylbenzene	15.358	105	52247m	0.172	ppbv	
74) 1,2,4-Trimethylbenzene	16.121	105	146436m	0.438	ppbv	
76) 1,4-Dichlorobenzene	16.487	146	19912m	0.111	ppbv	

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

Manual Integrations

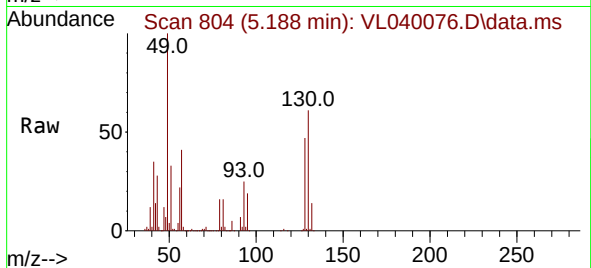
Quant Time: Jan 10 00:47:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 10 00:22:08 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

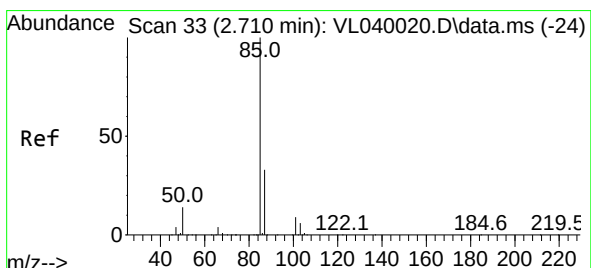
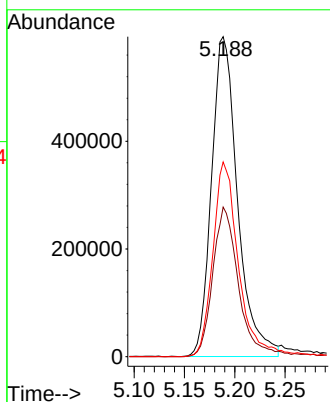
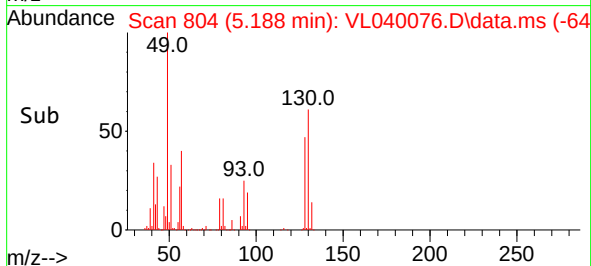
Instrument :
MSVOA_L
ClientSampleId :
UR-1



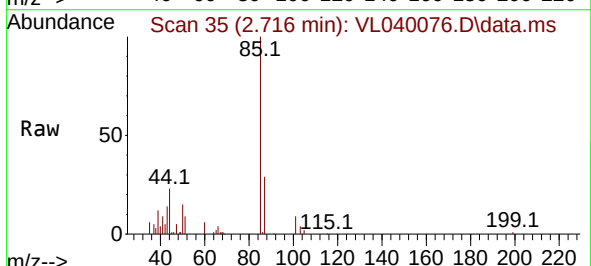
Tgt Ion: 49 Resp: 107096
Ion Ratio Lower Upper
49 100
128 47.9 22.4 67.3
130 61.1 28.9 86.8

Manual Integrations
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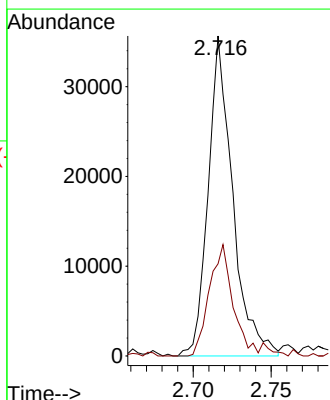
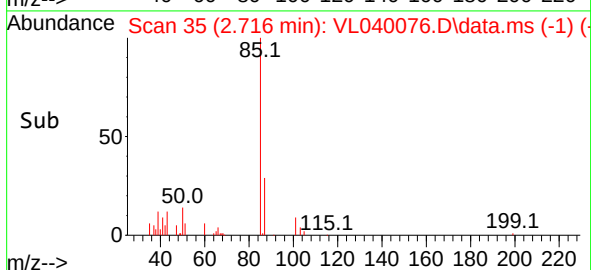
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023

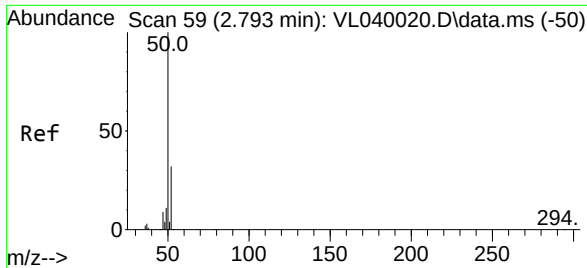


#2
Dichlorodifluoromethane
Concen: 0.194 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16



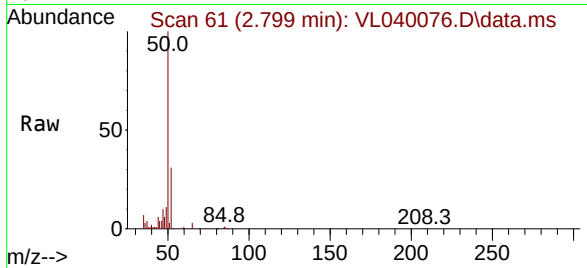
Tgt Ion: 85 Resp: 38953
Ion Ratio Lower Upper
85 100
87 28.8 26.6 40.0





#4
Chloromethane
Concen: 0.688 ppbv
RT: 2.799 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

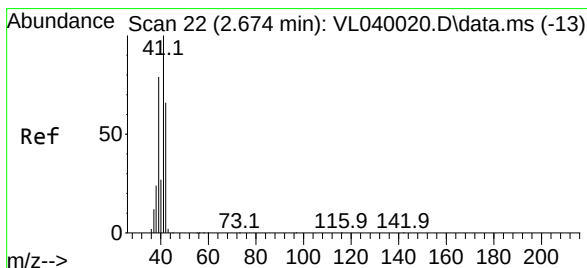
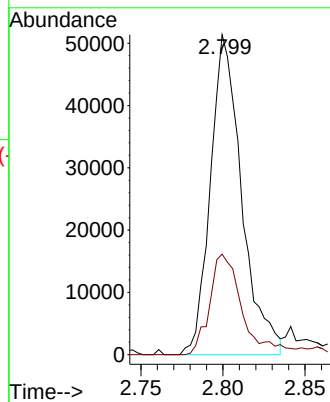
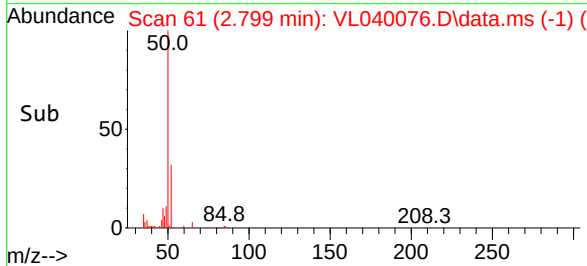
Instrument :
MSVOA_L
ClientSampleId :
UR-1



Tgt Ion: 50 Resp: 68075
Ion Ratio Lower Upper
50 100
52 31.4 25.5 38.3

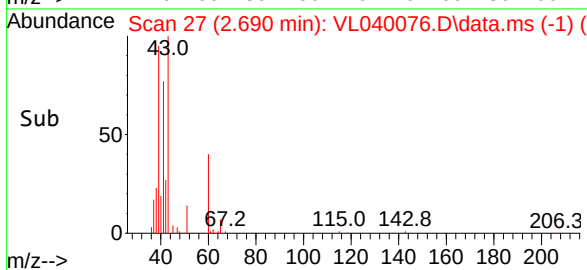
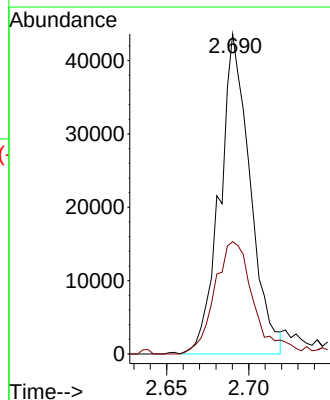
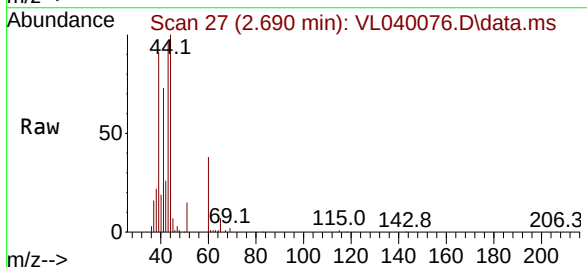
Manual Integrations
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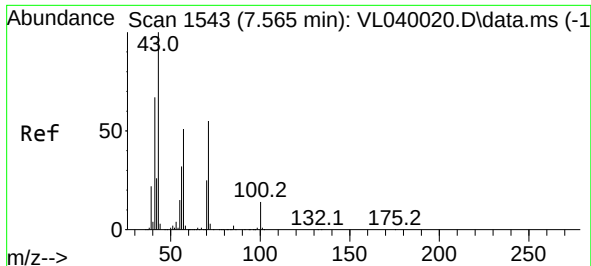
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023



#9
Propene
Concen: 0.834 ppbv
RT: 2.690 min Scan# 27
Delta R.T. 0.013 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

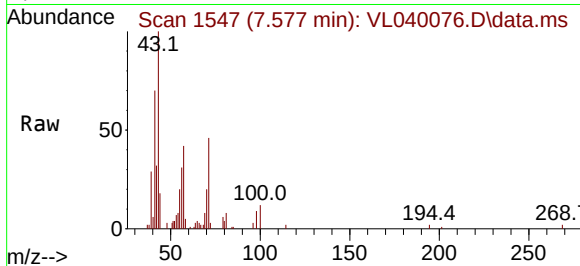
Tgt Ion: 41 Resp: 55898
Ion Ratio Lower Upper
41 100
42 46.3 54.8 82.2#





#10
Heptane
Concen: 0.156 ppbv m
RT: 7.577 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

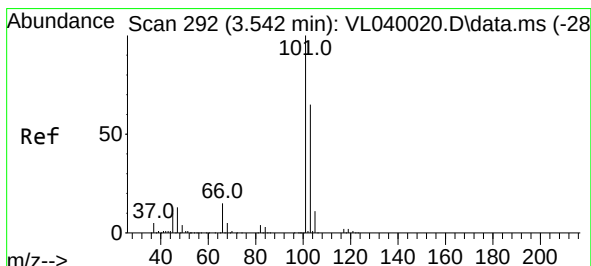
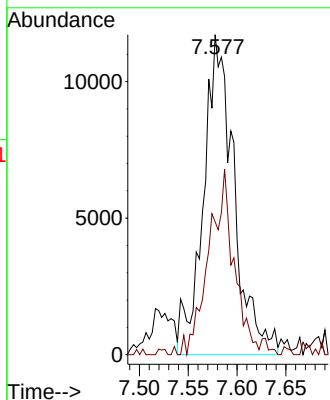
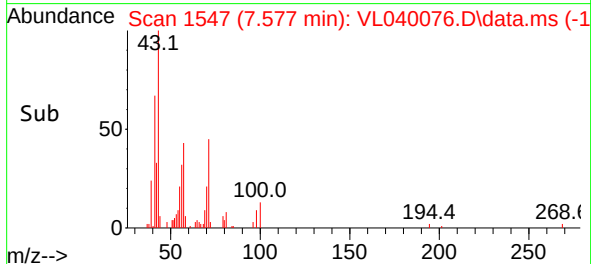
Instrument :
MSVOA_L
ClientSampleId :
UR-1



Tgt Ion: 43 Resp: 25600
Ion Ratio Lower Upper
43 100
57 48.4 41.2 61.8

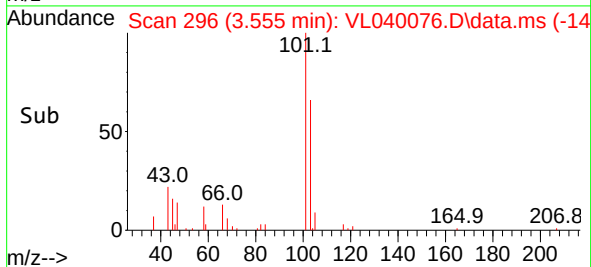
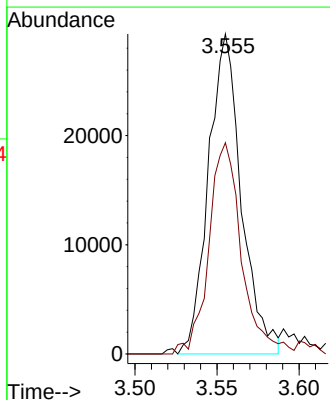
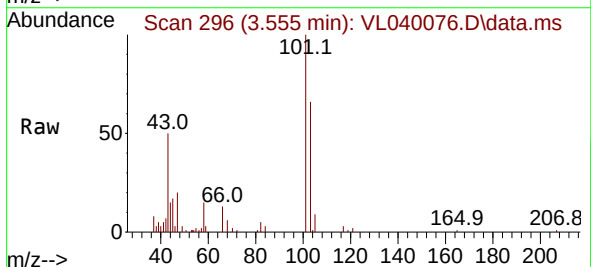
Manual Integrations
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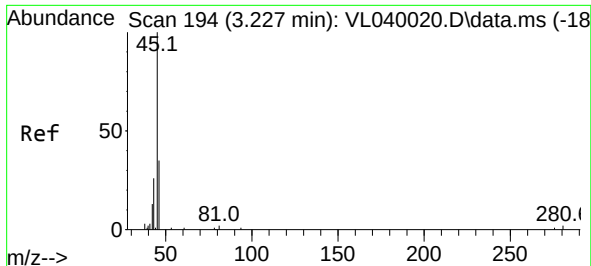
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023



#11
Trichlorofluoromethane
Concen: 0.187 ppbv
RT: 3.555 min Scan# 296
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

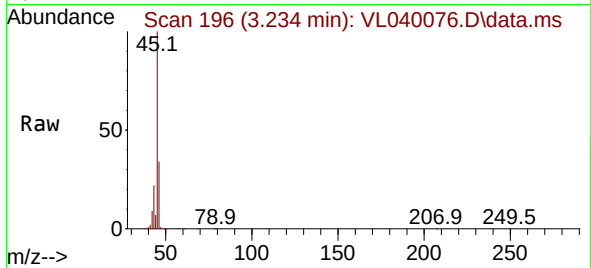
Tgt Ion:101 Resp: 40824
Ion Ratio Lower Upper
101 100
103 63.0 51.7 77.5





#13
Ethanol
Concen: 59.725 ppbv
RT: 3.234 min Scan# 196
Delta R.T. 0.006 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

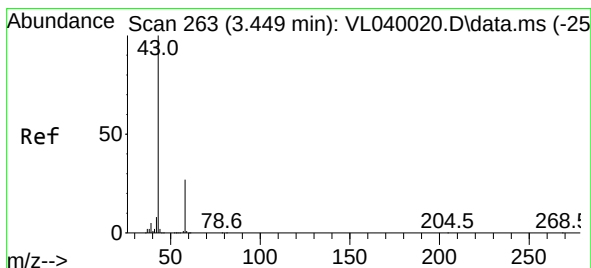
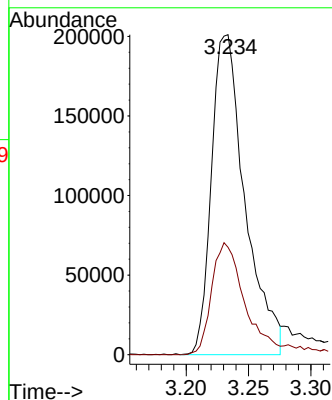
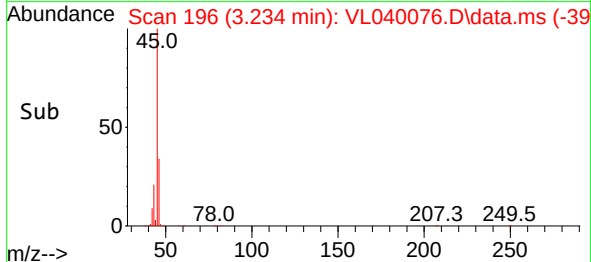
Instrument :
MSVOA_L
ClientSampleId :
UR-1



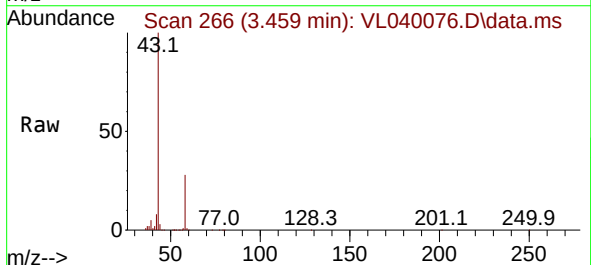
Tgt Ion: 45 Resp: 37694
Ion Ratio Lower Upper
45 100
46 36.7 13.7 54.7

Manual Integrations
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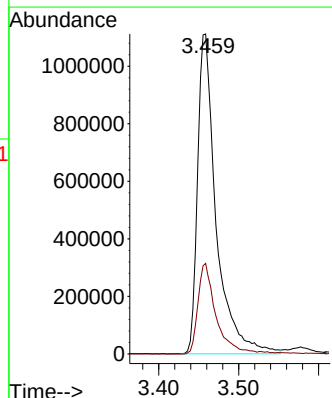
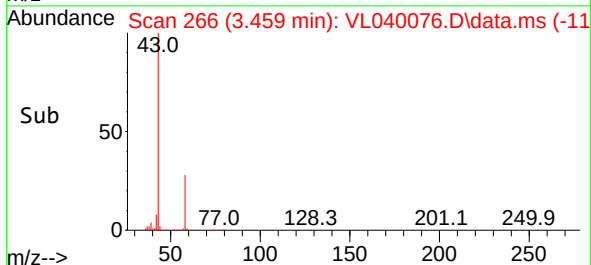
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023

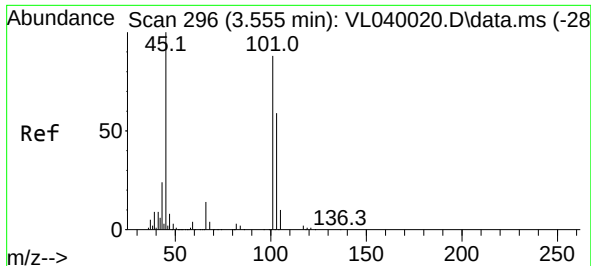


#15
Acetone
Concen: 10.854 ppbv
RT: 3.459 min Scan# 266
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16



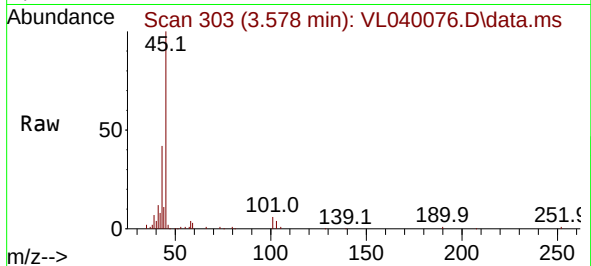
Tgt Ion: 43 Resp: 1798267
Ion Ratio Lower Upper
43 100
58 28.3 21.8 32.8





#19
Isopropyl Alcohol
Concen: 1.266 ppbv m
RT: 3.578 min Scan# 303
Delta R.T. 0.016 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

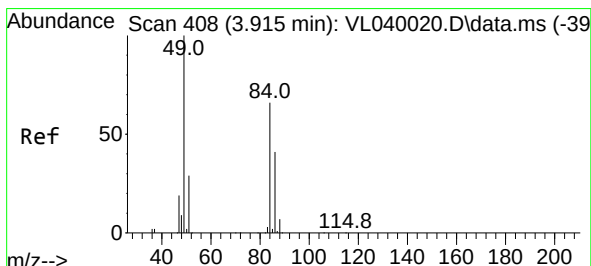
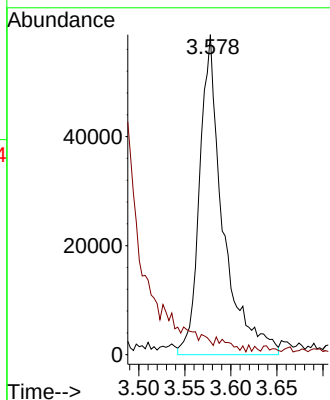
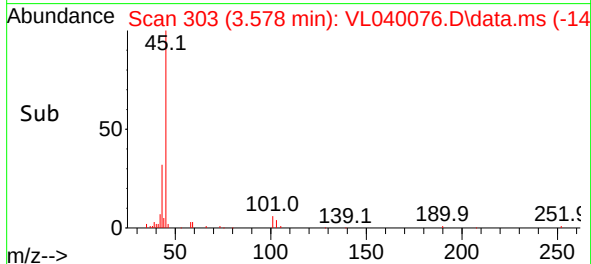
Instrument :
MSVOA_L
ClientSampleId :
UR-1



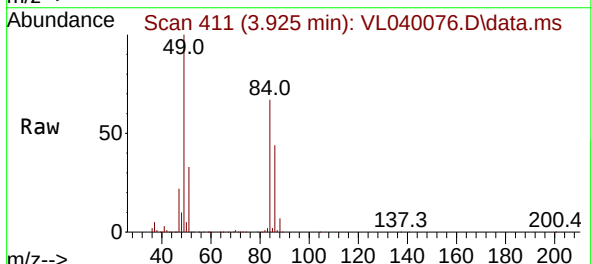
Tgt Ion: 45 Resp: 10335
Ion Ratio Lower Upper
45 100
58 493.1 1.7 2.5

Manual Integrations
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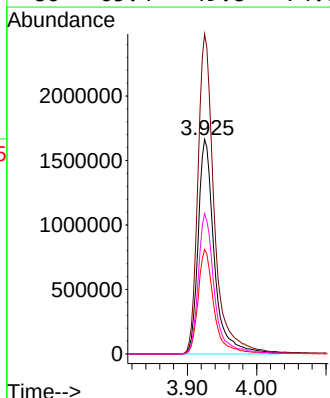
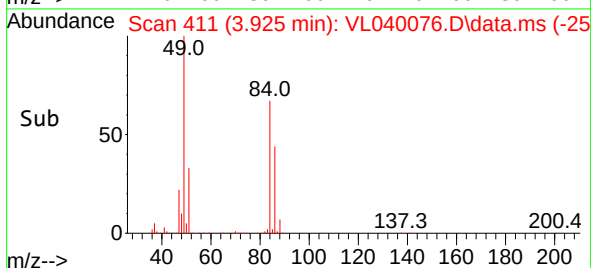
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023

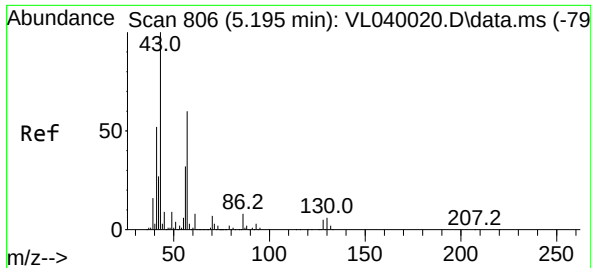


#20
Methylene Chloride
Concen: 38.445 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16



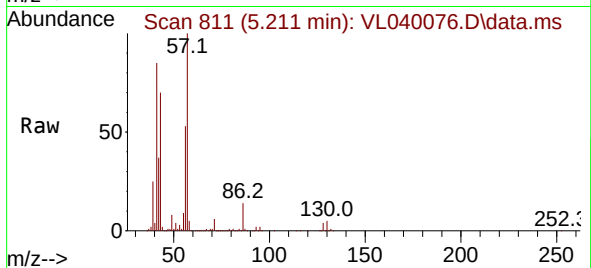
Tgt Ion: 84 Resp: 2707351
Ion Ratio Lower Upper
84 100
49 149.2 120.5 180.7
51 48.6 35.2 52.8
86 65.4 49.8 74.6





#26
Hexane
Concen: 24.375 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

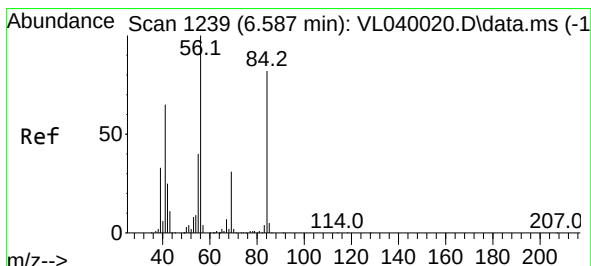
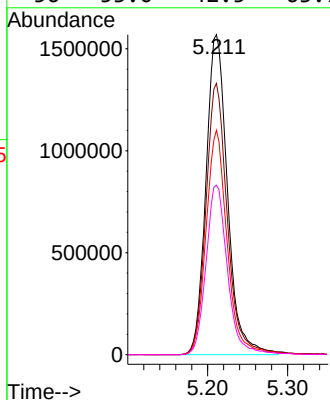
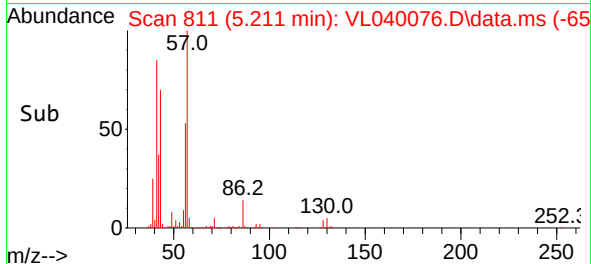
Instrument :
MSVOA_L
ClientSampleId :
UR-1



Tgt Ion: 57 Resp: 2939389
Ion Ratio Lower Upper
57 100
41 85.1 72.1 108.1
43 69.1 192.1 288.1
56 53.0 42.5 63.7

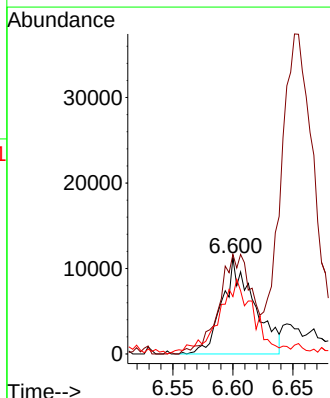
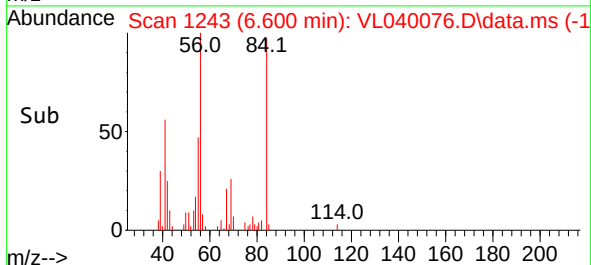
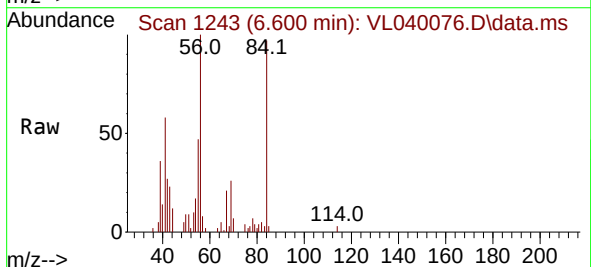
Manual Integrations
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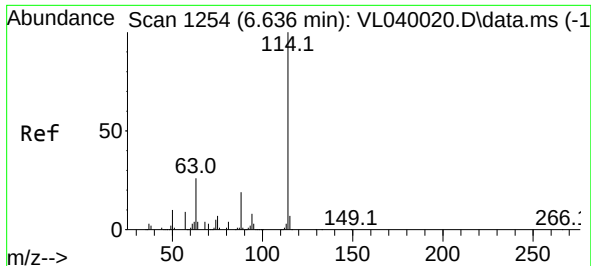
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023



#30
Cyclohexane
Concen: 0.195 ppbv m
RT: 6.600 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

Tgt Ion: 84 Resp: 20846
Ion Ratio Lower Upper
84 100
56 110.2 110.2 165.4#
41 86.6 67.8 101.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL040076.D

Acq: 9 Jan 2023 15:16

Instrument :

MSVOA_L

ClientSampleId :

UR-1

Tgt Ion:114 Resp: 289378

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.2

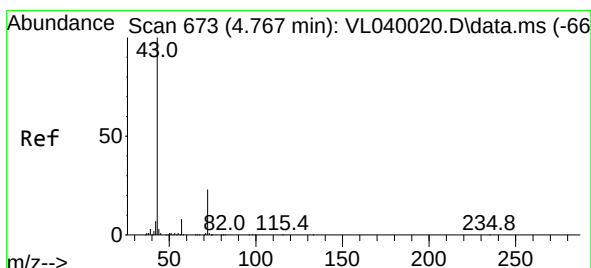
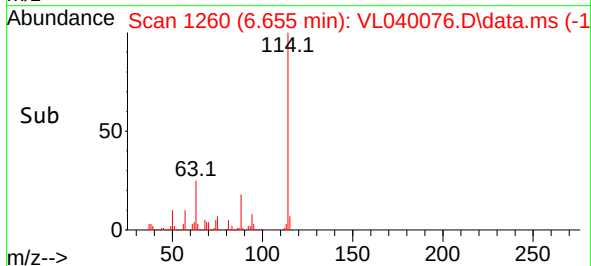
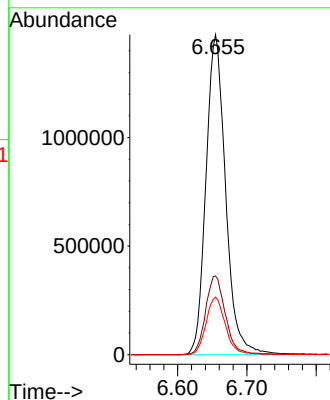
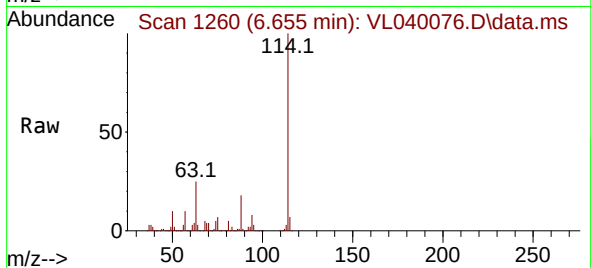
88 17.8 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/11/2023

Supervised By :Mahesh Dadoda 01/11/2023



#34

2-Butanone

Concen: 0.691 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.010 min

Lab File: VL040076.D

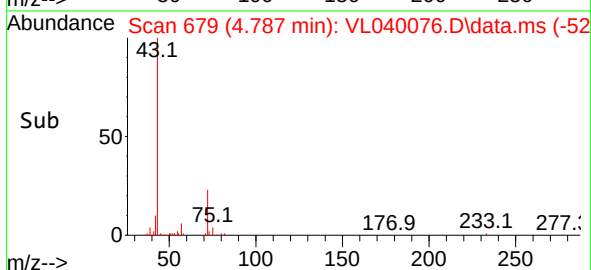
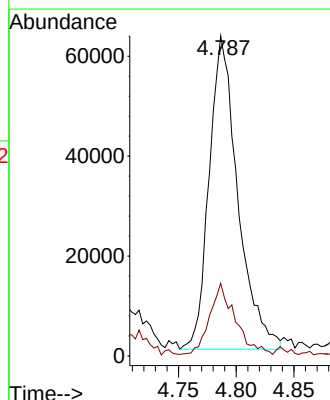
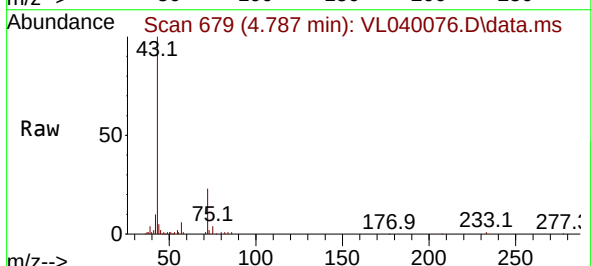
Acq: 9 Jan 2023 15:16

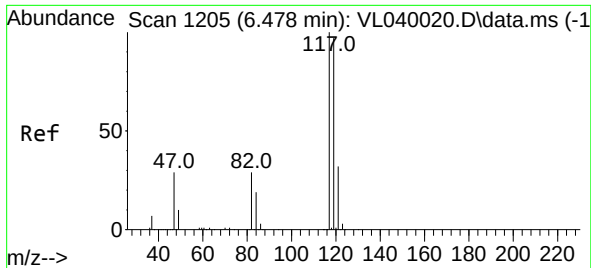
Tgt Ion: 43 Resp: 108415

Ion Ratio Lower Upper

43 100

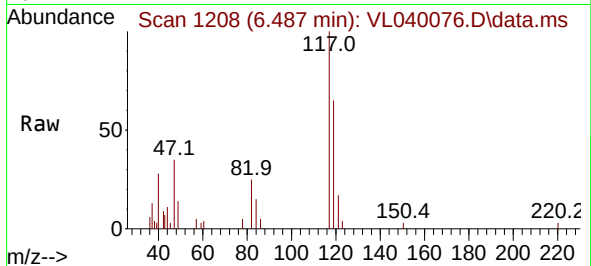
72 21.4 18.0 27.0





#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 6.487 min Scan# 1171
Delta R.T. -0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

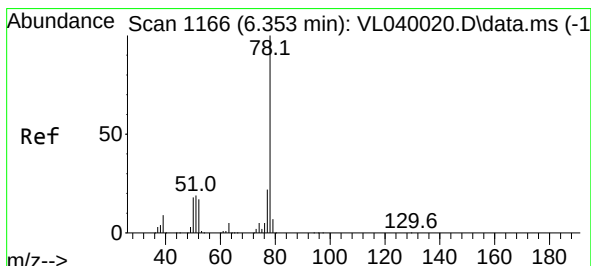
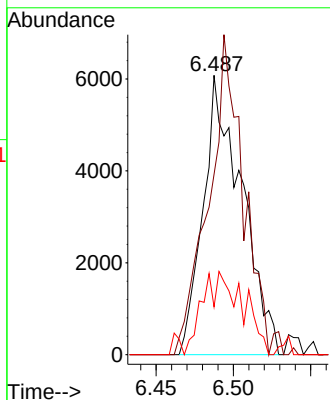
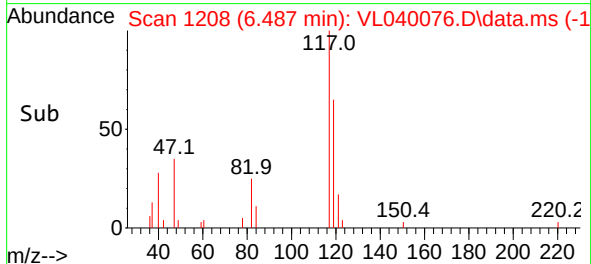
Instrument :
MSVOA_L
ClientSampleId :
UR-1



Tgt Ion: 117 Resp: 10554
Ion Ratio Lower Upper
117 100
119 64.6 77.3 115.9
121 17.2 25.4 38.0

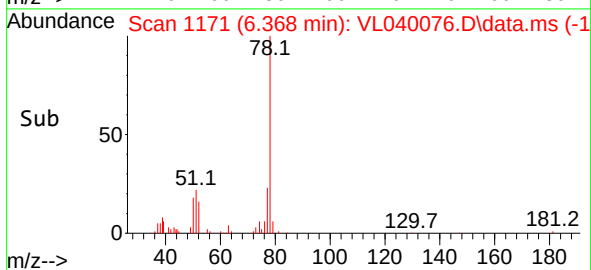
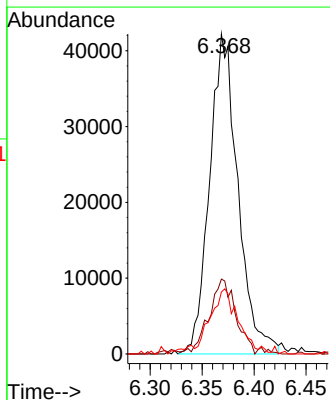
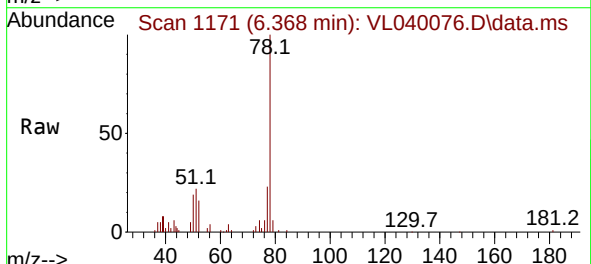
Manual Integrations
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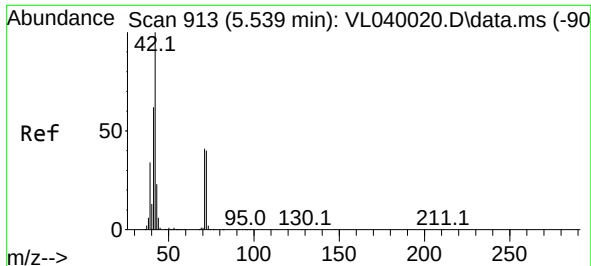
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023



#36
Benzene
Concen: 0.310 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

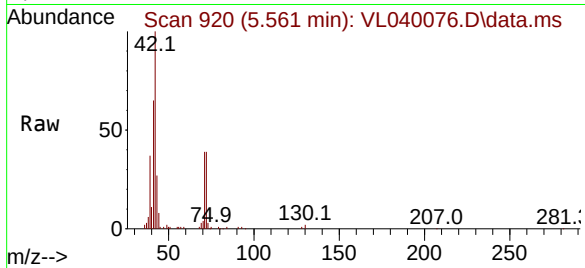
Tgt Ion: 78 Resp: 80150
Ion Ratio Lower Upper
78 100
77 23.1 17.5 26.3
50 19.4 14.2 21.2





#41
Tetrahydrofuran
Concen: 0.977 ppbv
RT: 5.561 min Scan# 913
Delta R.T. 0.010 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

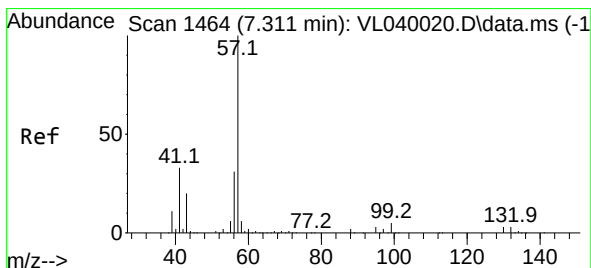
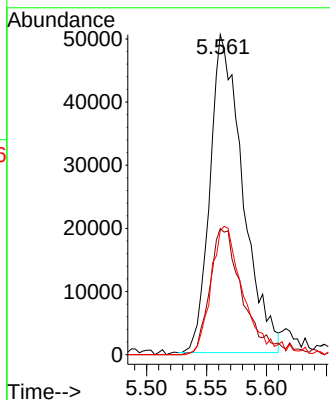
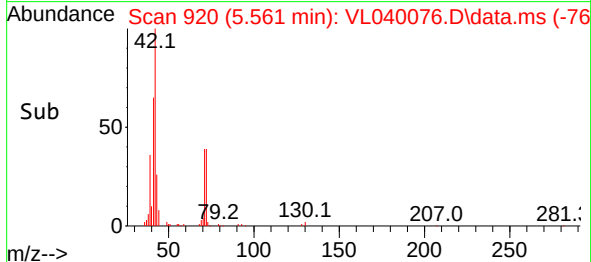
Instrument :
MSVOA_L
ClientSampleId :
UR-1



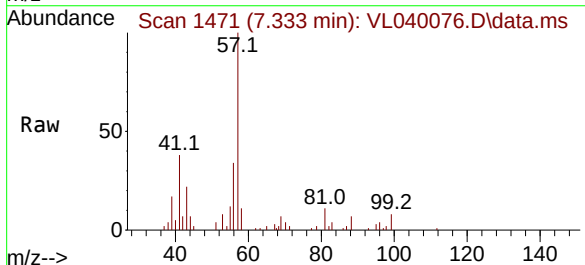
Tgt Ion: 42 Resp: 95704
Ion Ratio Lower Upper
42 100
72 41.6 32.9 49.3
71 41.3 32.2 48.2

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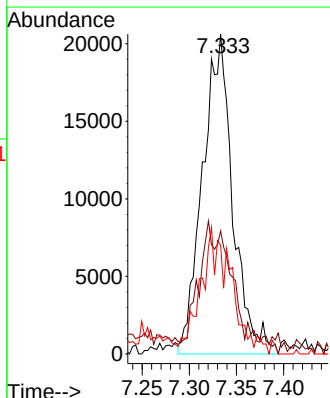
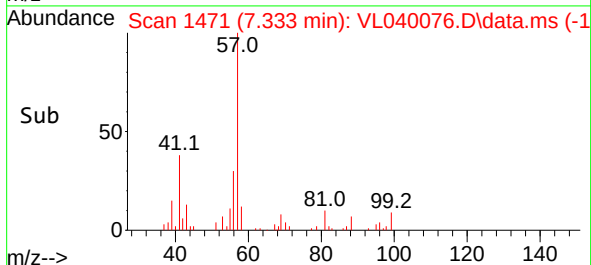
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023

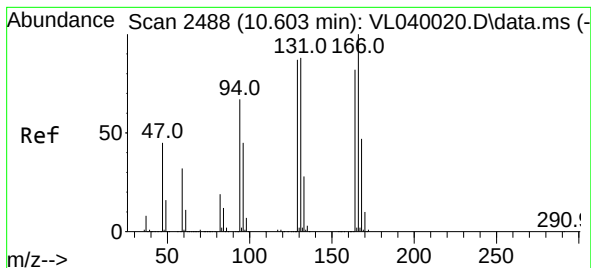


#44
2,2,4-Trimethylpentane
Concen: 0.108 ppbv m
RT: 7.333 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16



Tgt Ion: 57 Resp: 45807
Ion Ratio Lower Upper
57 100
41 0.0 26.2 39.4#
56 0.0 25.1 37.7#





#52

Tetrachloroethene

Concen: 0.042 ppbv

RT: 10.632 min Scan# 2488

Delta R.T. 0.010 min

Lab File: VL040076.D

Acq: 9 Jan 2023 15:16

Instrument :

MSVOA_L

ClientSampleId :

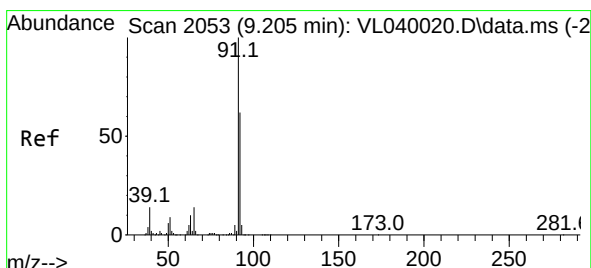
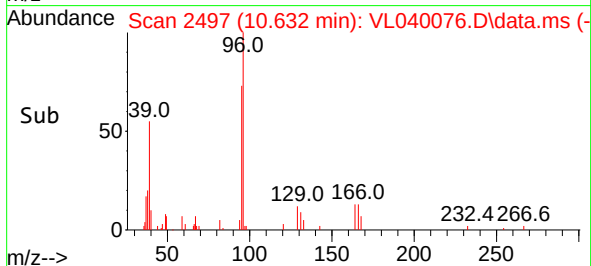
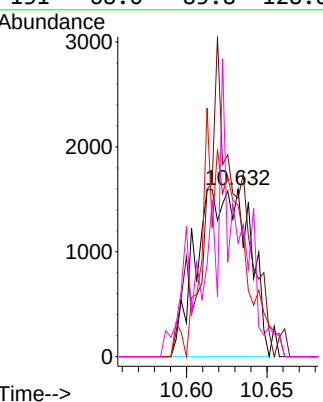
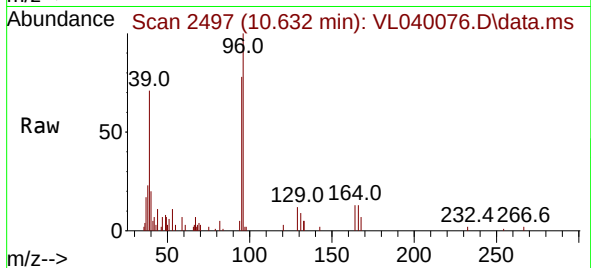
UR-1

Tgt Ion:	164	Resp:	368
Ion Ratio	Lower	Upper	
164	100		
166	94.8	97.4	146.0
129	90.5	84.3	126.5
131	68.0	85.8	128.8

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Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023



#53

Toluene

Concen: 1.127 ppbv

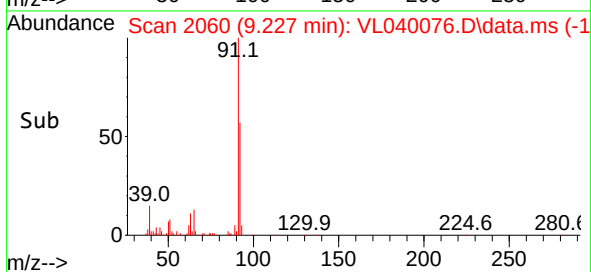
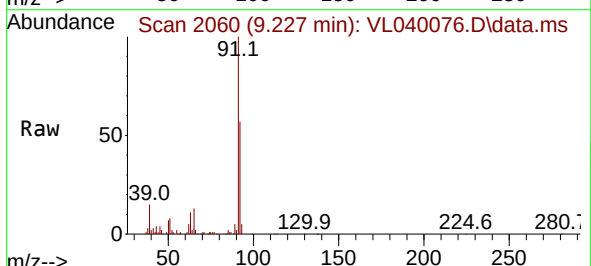
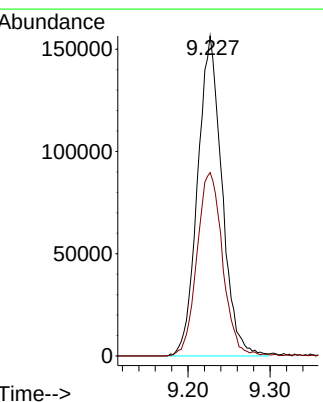
RT: 9.227 min Scan# 2060

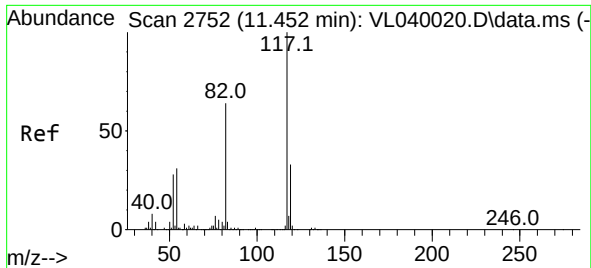
Delta R.T. 0.003 min

Lab File: VL040076.D

Acq: 9 Jan 2023 15:16

Tgt Ion:	91	Resp:	322563
Ion Ratio	Lower	Upper	
91	100		
92	60.8	48.7	73.1





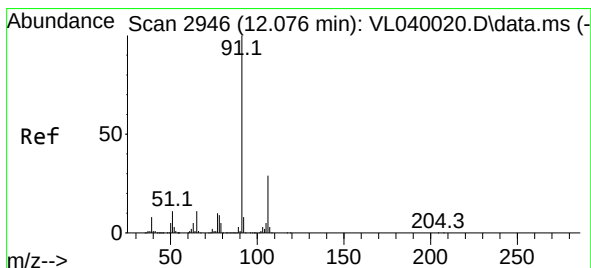
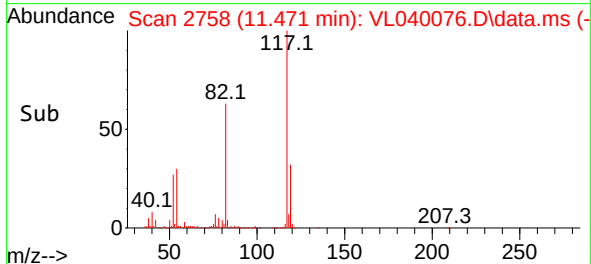
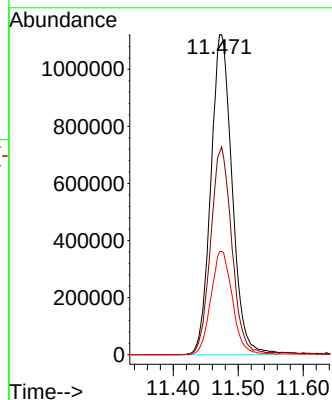
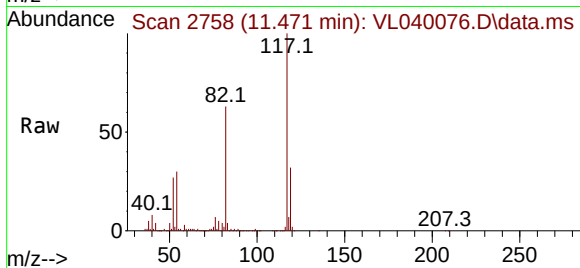
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

Instrument :
MSVOA_L
ClientSampleId :
UR-1

Tgt Ion:117 Resp: 2556310
Ion Ratio Lower Upper
117 100
82 65.4 51.2 76.8
119 32.8 23.2 34.8

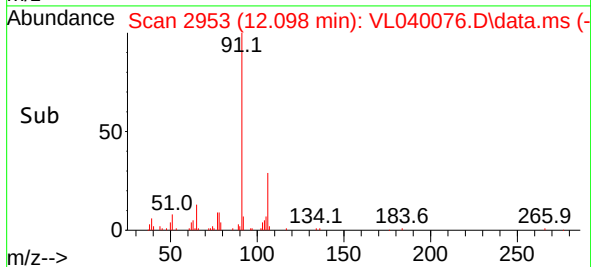
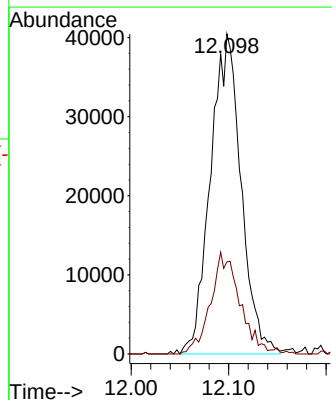
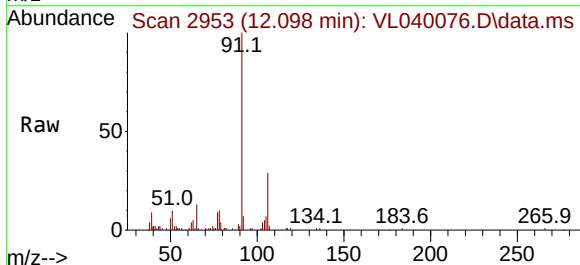
Manual Integrations
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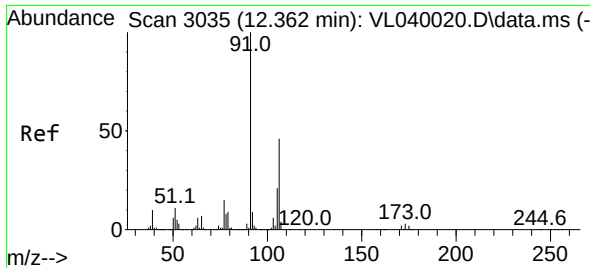
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023



#58
Ethyl Benzene
Concen: 0.243 ppbv
RT: 12.098 min Scan# 2953
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

Tgt Ion: 91 Resp: 88435
Ion Ratio Lower Upper
91 100
106 28.8 23.5 35.3





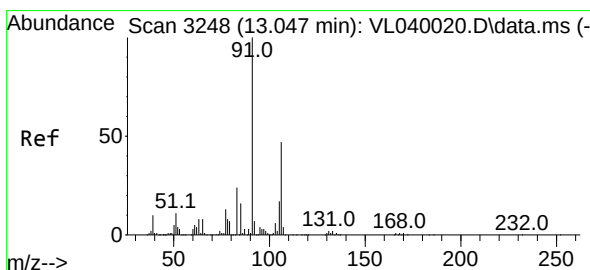
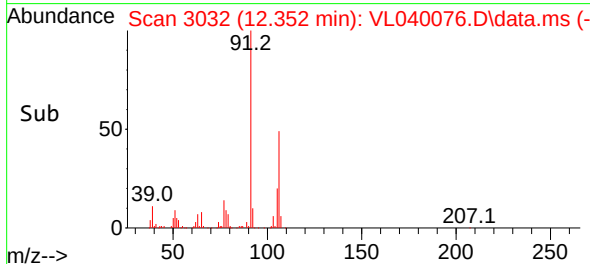
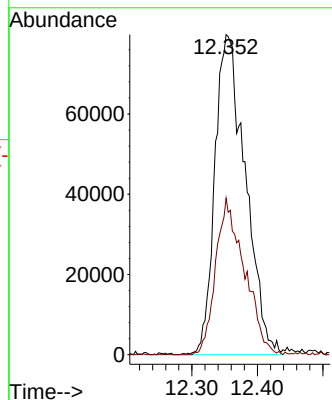
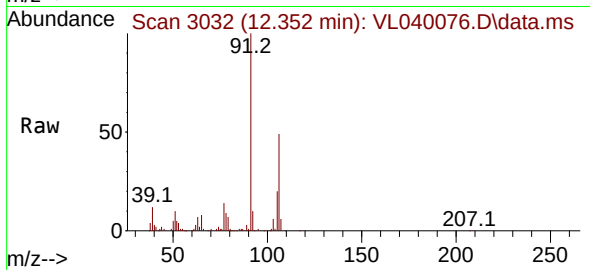
#59
m/p-Xylene
Concen: 0.813 ppbv m
RT: 12.352 min Scan# 3032
Delta R.T. -0.026 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

Instrument :
MSVOA_L
ClientSampleId :
UR-1

Tgt Ion: 91 Resp: 257278
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3

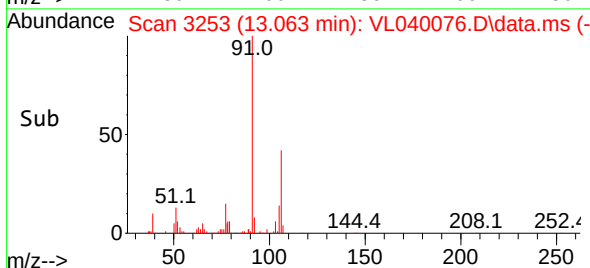
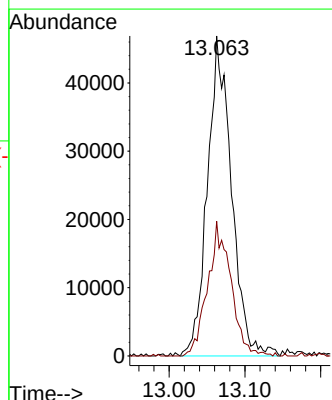
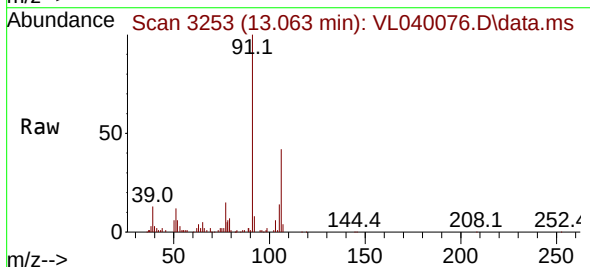
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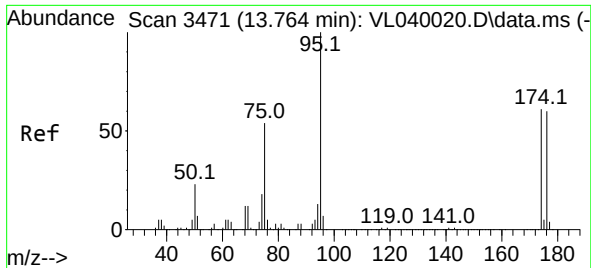
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023



#60
o-Xylene
Concen: 0.341 ppbv m
RT: 13.063 min Scan# 3253
Delta R.T. -0.000 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

Tgt Ion: 91 Resp: 103270
Ion Ratio Lower Upper
91 100
106 40.7 22.4 67.0





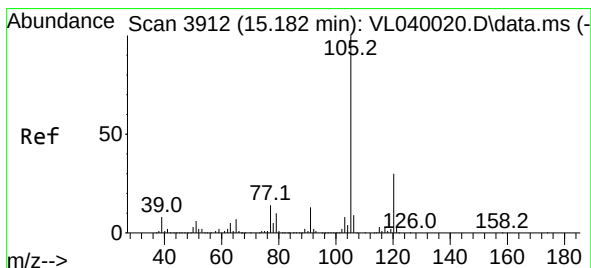
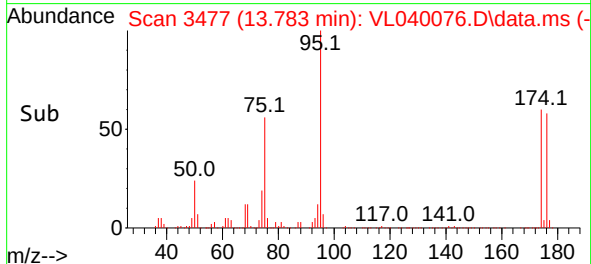
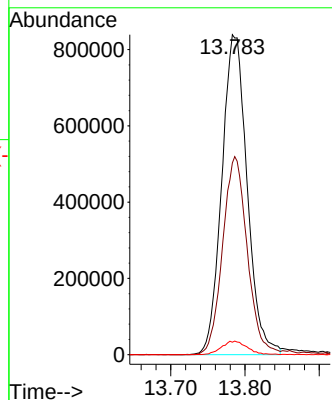
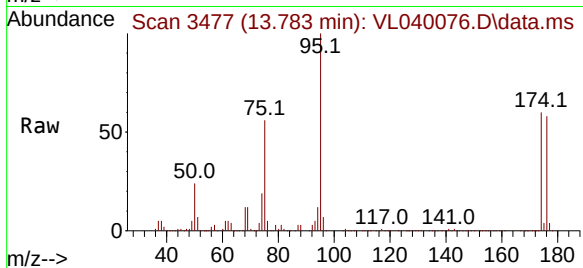
#68
1-Bromo-4-Fluorobenzene
Concen: 10.196 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. -0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

Instrument :
MSVOA_L
ClientSampleId :
UR-1

Tgt Ion: 95 Resp: 199092
Ion Ratio Lower Upper
95 100
174 61.2 48.6 73.0
175 4.4 3.4 5.2

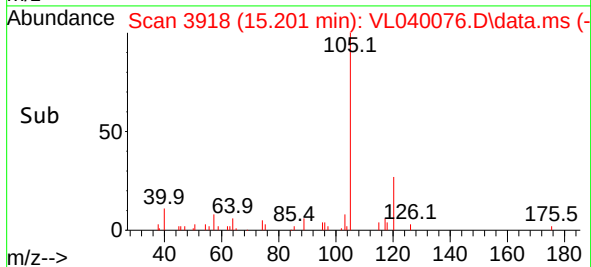
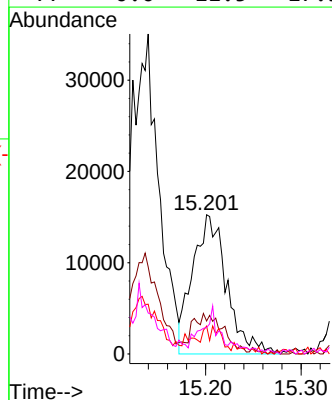
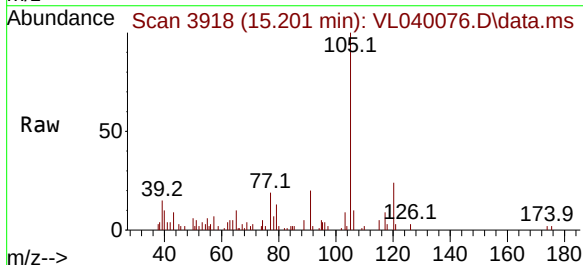
Manual Integrations
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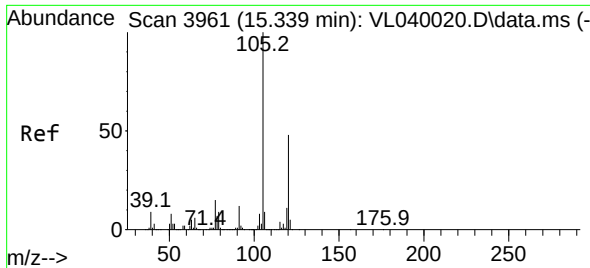
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023



#72
4-Ethyltoluene
Concen: 0.112 ppbv m
RT: 15.201 min Scan# 3918
Delta R.T. -0.000 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

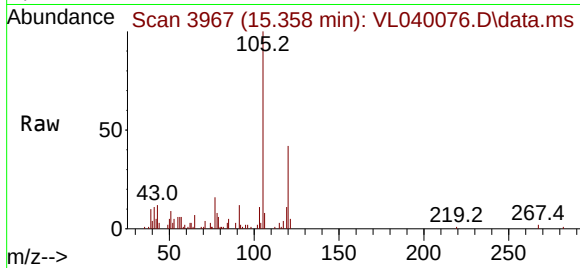
Tgt Ion:105 Resp: 37751
Ion Ratio Lower Upper
105 100
120 28.6 23.5 35.3
91 0.0 10.5 15.7#
77 0.0 11.5 17.3#





#73
1,3,5-Trimethylbenzene
Concen: 0.172 ppbv m
RT: 15.358 min Scan# 3961
Delta R.T. -0.000 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16

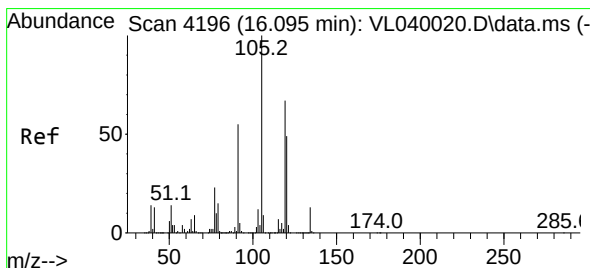
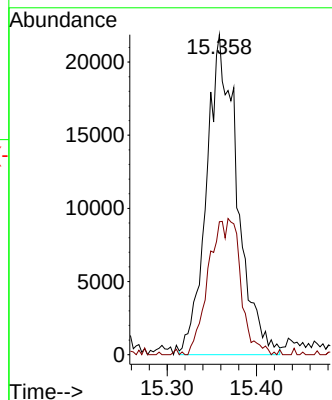
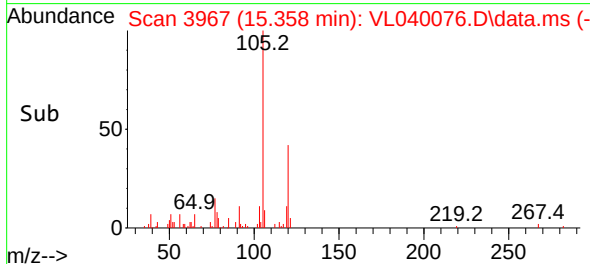
Instrument :
MSVOA_L
ClientSampleId :
UR-1



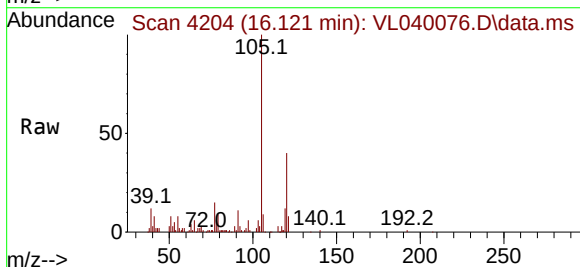
Tgt Ion:105 Resp: 5224
Ion Ratio Lower Upper
105 100
120 41.6 38.4 57.6

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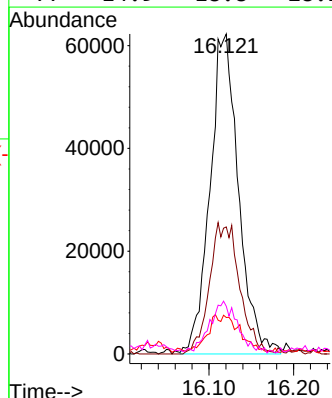
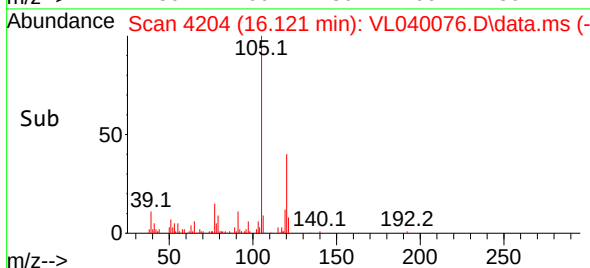
Reviewed By :Semsettin Yesilyurt 01/11/2023
Supervised By :Mahesh Dadoda 01/11/2023

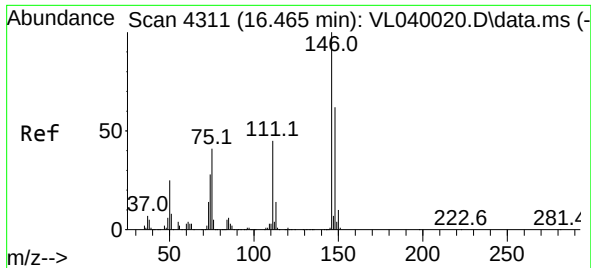


#74
1,2,4-Trimethylbenzene
Concen: 0.438 ppbv m
RT: 16.121 min Scan# 4204
Delta R.T. 0.003 min
Lab File: VL040076.D
Acq: 9 Jan 2023 15:16



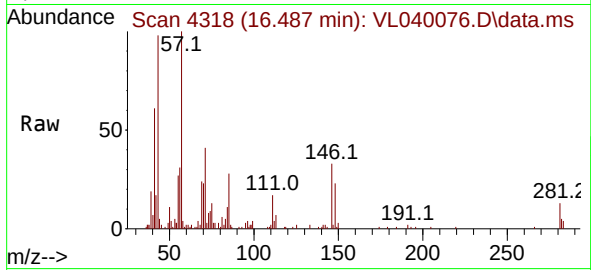
Tgt Ion:105 Resp: 146436
Ion Ratio Lower Upper
105 100
120 39.7 39.3 58.9
91 11.4 44.2 66.4#
77 14.9 18.8 28.2#





#76
 1,4-Dichlorobenzene
 Concen: 0.111 ppbv m
 RT: 16.487 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL040076.D
 Acq: 9 Jan 2023 15:16

Instrument :
 MSVOA_L
 ClientSampleId :
 UR-1



Tgt Ion	Ratio	Lower	Upper
146	100		
111	61.0	23.4	70.2
148	68.2	32.0	96.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/11/2023
 Supervised By :Mahesh Dadoda 01/11/2023

