

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012324\
 Data File : VL041001.D
 Acq On : 23 Jan 2024 18:07
 Operator : SY/MD
 Sample : P1211-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/24/2024
 Supervised By :Mahesh Dadoda 01/24/2024

Quant Time: Jan 24 01:00:47 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Jan 24 00:50:15 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.156	49	992346	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.616	114	2590053	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.420	117	2178547	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.732	95	1589402	9.659	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.703	85	105237	0.480	ppbv	94
4) Chloromethane	2.784	50	29213	0.467	ppbv	96
7) Chloroethane	3.169	64	33345	1.510	ppbv	91
9) Propene	2.677	41	290961m	5.315	ppbv	
10) Heptane	7.539	43	52243	0.388	ppbv	95
11) Trichlorofluoromethane	3.533	101	40293	0.228	ppbv	84
12) 1,1,2-Trichlorotrifluo...	4.038	101	8623m	0.067	ppbv	
13) Ethanol	3.218	45	5206942	399.068	ppbv	93
15) Acetone	3.433	43	6590198	51.932	ppbv	98
19) Isopropyl Alcohol	3.555	45	14619318	199.017	ppbv #	95
20) Methylene Chloride	3.906	84	157163	3.218	ppbv	95
26) Hexane	5.176	57	152995	1.560	ppbv #	48
29) Chloroform	5.240	83	22335	0.128	ppbv	99
34) 2-Butanone	4.748	43	716069	5.803	ppbv	100
35) Carbon Tetrachloride	6.452	117	11495m	0.067	ppbv	
36) Benzene	6.330	78	57253m	0.268	ppbv	
41) Tetrahydrofuran	5.513	42	1571537	18.757	ppbv	98
44) 2,2,4-Trimethylpentane	7.282	57	48217m	0.134	ppbv	
52) Tetrachloroethene	10.577	164	8411m	0.118	ppbv	
53) Toluene	9.182	91	447157m	1.908	ppbv	
58) Ethyl Benzene	12.047	91	34747m	0.119	ppbv	
59) m/p-Xylene	12.301	91	103123m	0.404	ppbv	
60) o-Xylene	13.008	91	37257m	0.152	ppbv	
74) 1,2,4-Trimethylbenzene	16.060	105	29138m	0.106	ppbv	

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

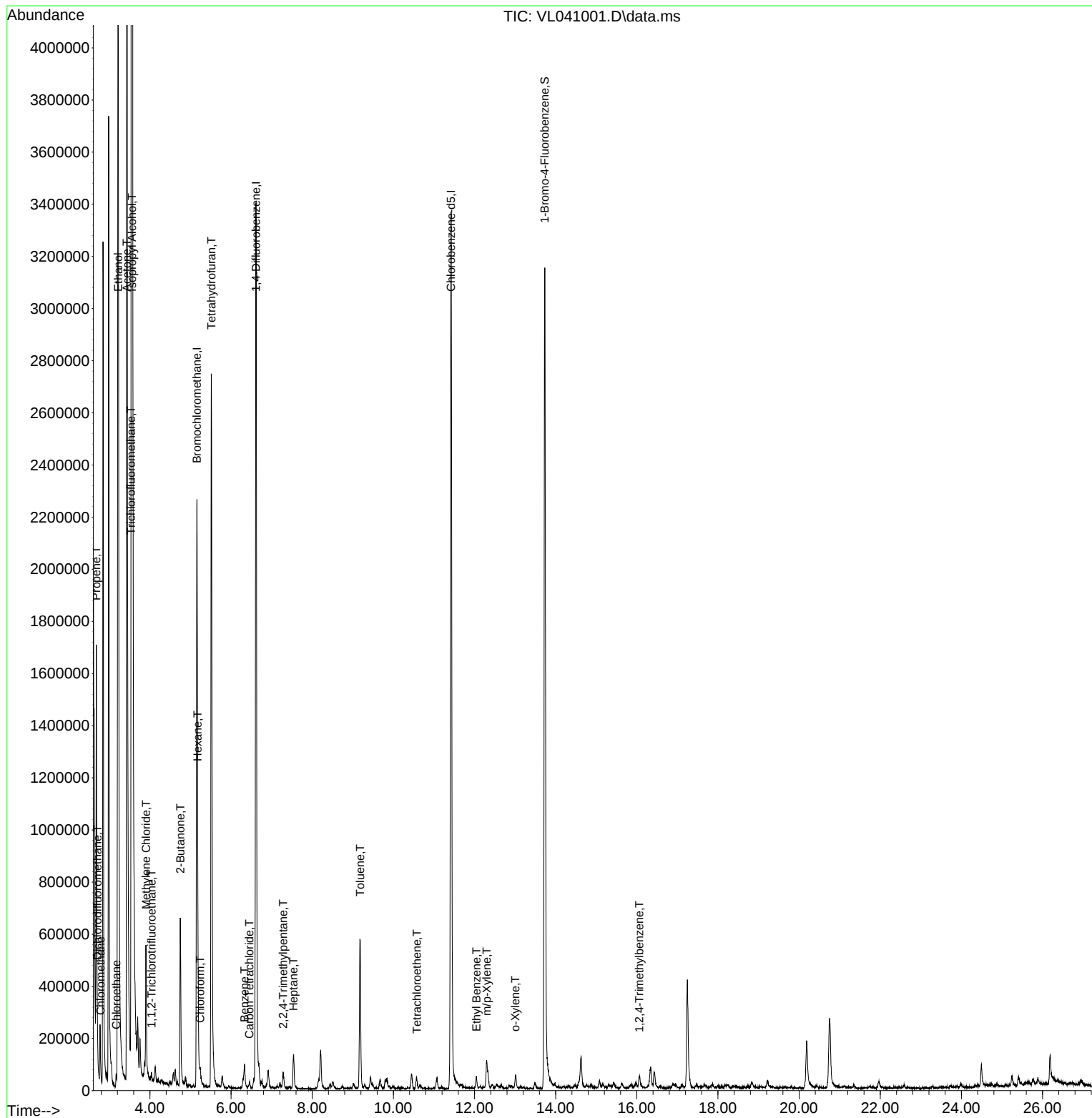
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012324\
Data File : VL041001.D
Acq On : 23 Jan 2024 18:07
Operator : SY/MD
Sample : P1211-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

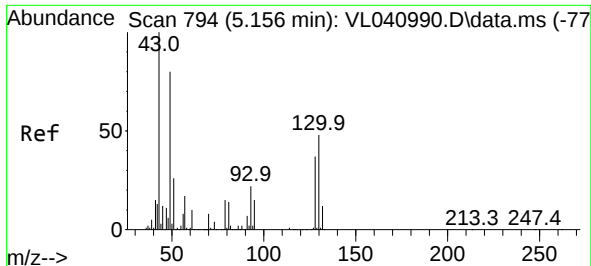
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Jan 24 01:00:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jan 24 00:50:15 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

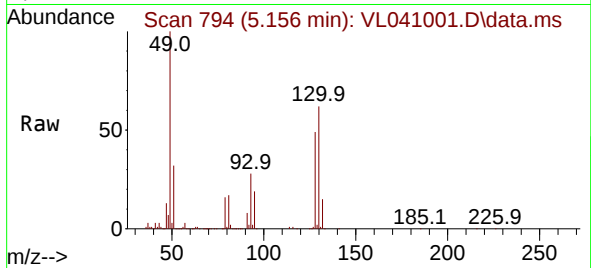
Reviewed By : Semsettin Yesilyurt 01/24/2024
Supervised By : Mahesh Dadoda 01/24/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.156 min Scan# 794
Delta R.T. 0.000 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

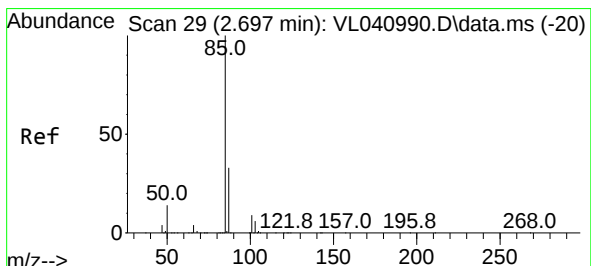
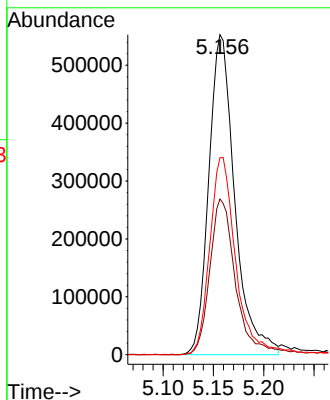
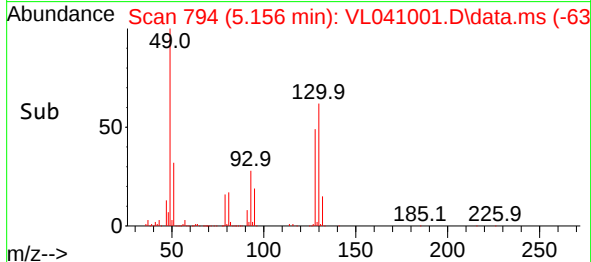
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 992340
Ion Ratio Lower Upper
49 100
128 49.4 23.9 71.7
130 63.3 31.1 93.5

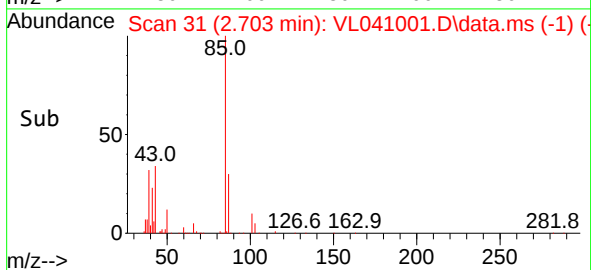
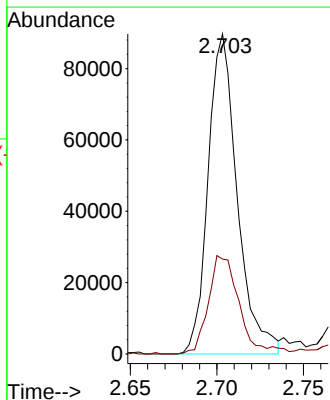
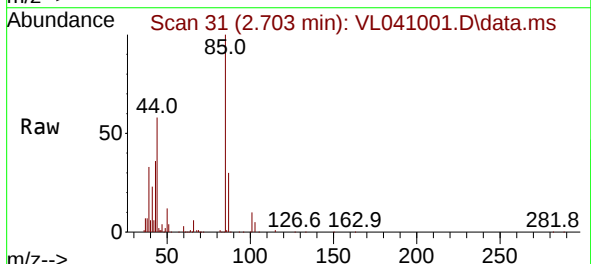
Manual Integrations
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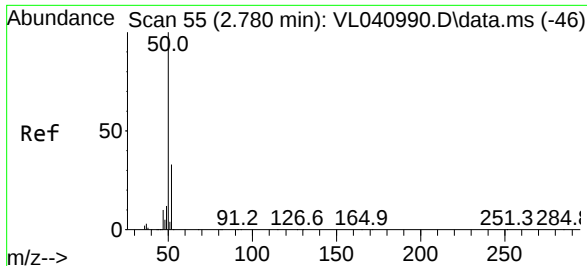
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#2
Dichlorodifluoromethane
Concen: 0.480 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

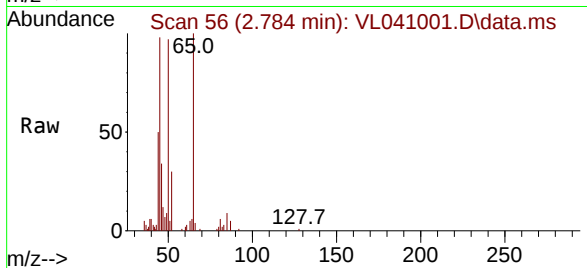
Tgt Ion: 85 Resp: 105237
Ion Ratio Lower Upper
85 100
87 29.7 26.3 39.5





#4
Chloromethane
Concen: 0.467 ppbv
RT: 2.784 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

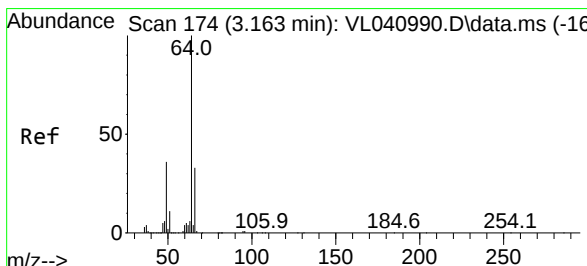
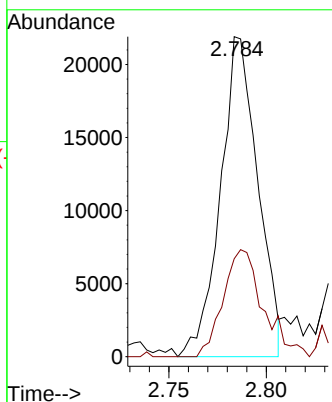
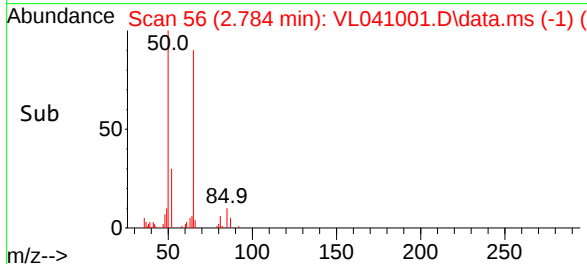
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 50 Resp: 2921
Ion Ratio Lower Upper
50 100
52 30.3 26.2 39.4

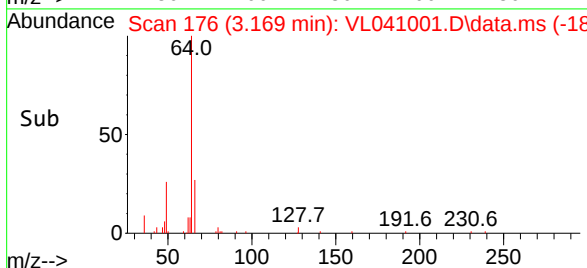
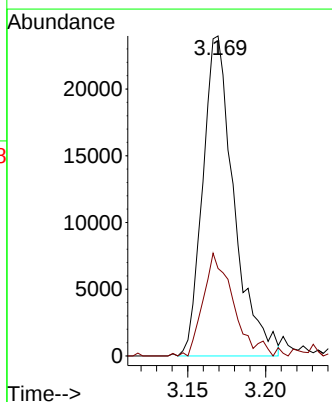
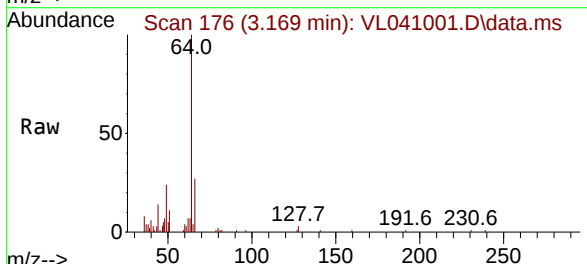
Manual Integrations
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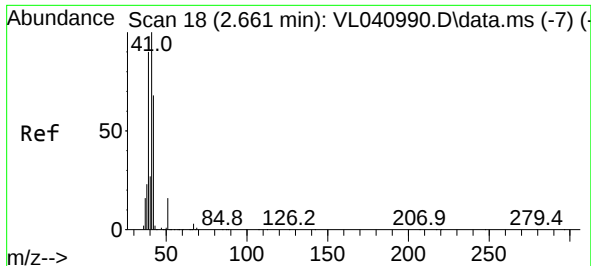
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#7
Chloroethane
Concen: 1.510 ppbv
RT: 3.169 min Scan# 176
Delta R.T. 0.006 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

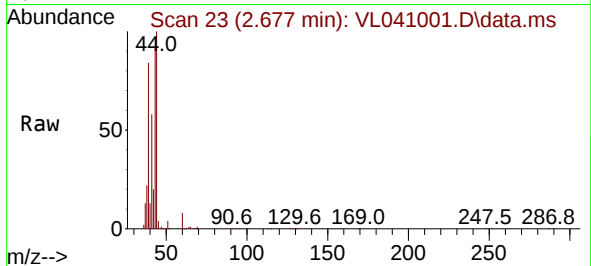
Tgt Ion: 64 Resp: 33345
Ion Ratio Lower Upper
64 100
66 27.3 26.0 39.0





#9
 Propene
 Concen: 5.315 ppbv m
 RT: 2.677 min Scan# 21
 Delta R.T. 0.016 min
 Lab File: VL041001.D
 Acq: 23 Jan 2024 18:07

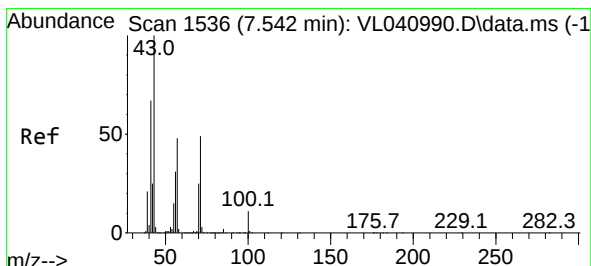
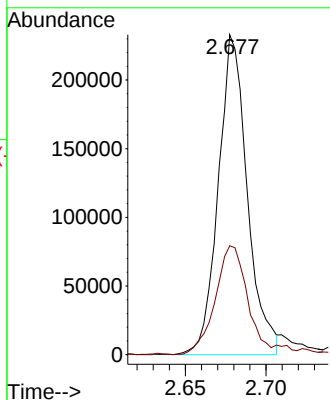
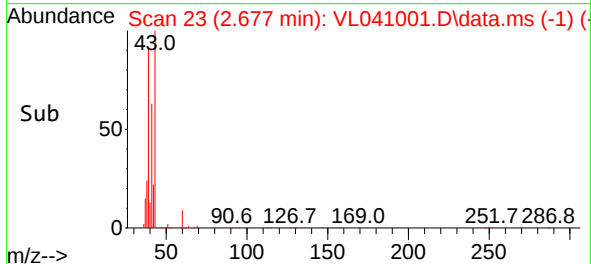
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion: 41 Resp: 290963
 Ion Ratio Lower Upper
 41 100
 42 201.1 59.0 88.4

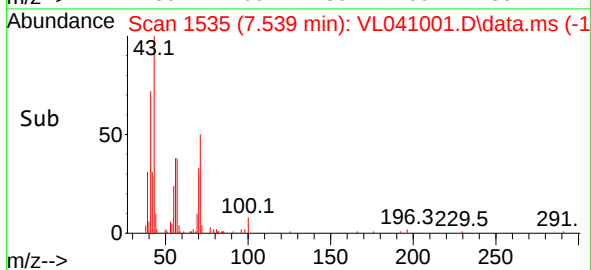
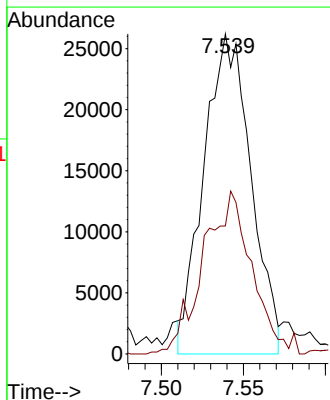
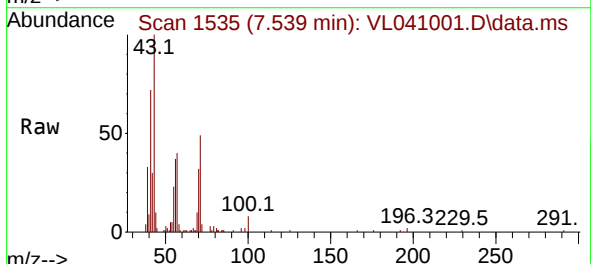
Manual Integrations
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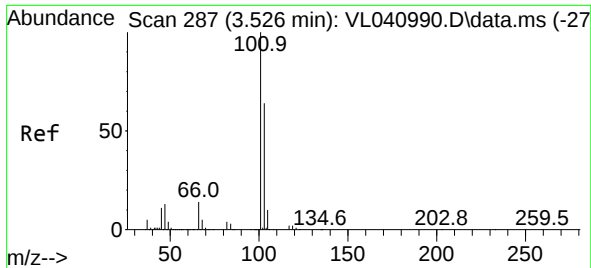
Reviewed By :Semsettin Yesilyurt 01/24/2024
 Supervised By :Mahesh Dadoda 01/24/2024



#10
 Heptane
 Concen: 0.388 ppbv
 RT: 7.539 min Scan# 1535
 Delta R.T. -0.003 min
 Lab File: VL041001.D
 Acq: 23 Jan 2024 18:07

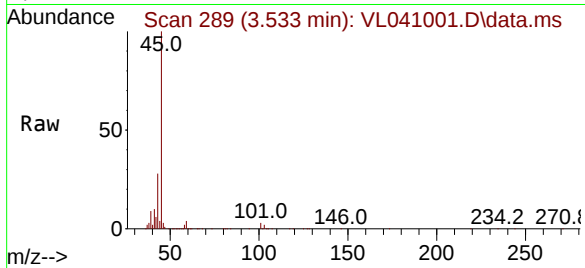
Tgt Ion: 43 Resp: 52243
 Ion Ratio Lower Upper
 43 100
 57 52.7 39.4 59.2





#11
 Trichlorofluoromethane
 Concen: 0.228 ppbv
 RT: 3.533 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VL041001.D
 Acq: 23 Jan 2024 18:07

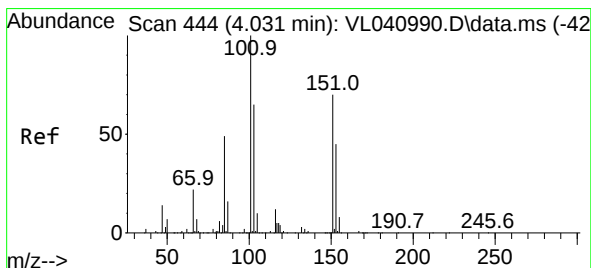
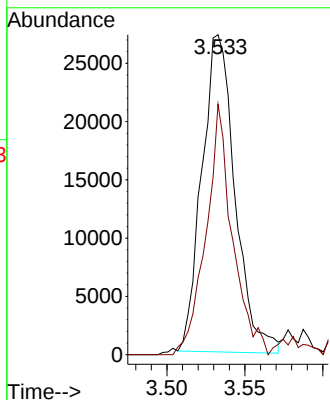
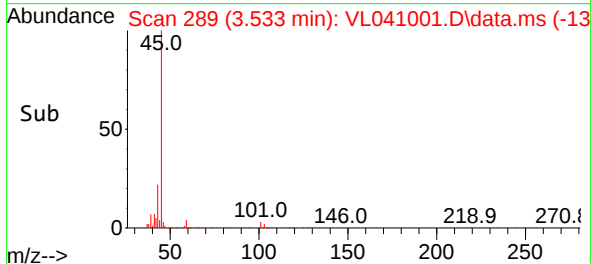
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



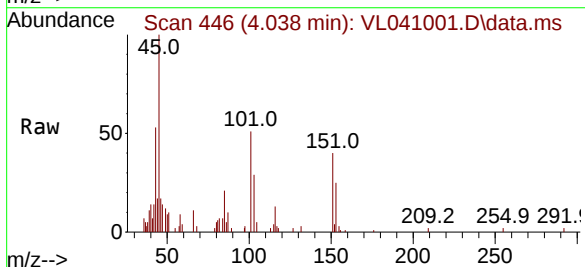
Tgt Ion:101 Resp: 4029
 Ion Ratio Lower Upper
 101 100
 103 76.7 51.4 77.2

Manual Integrations
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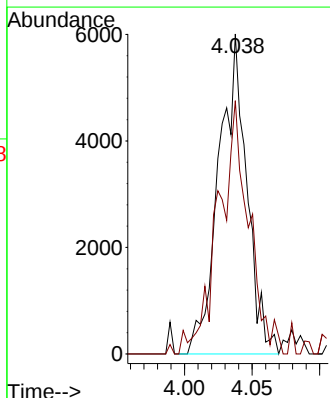
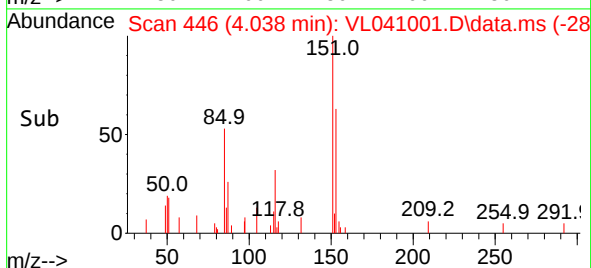
Reviewed By :Semsettin Yesilyurt 01/24/2024
 Supervised By :Mahesh Dadoda 01/24/2024

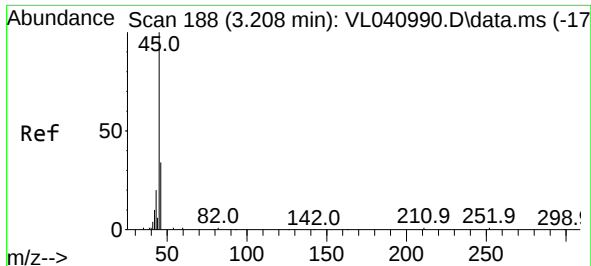


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.067 ppbv m
 RT: 4.038 min Scan# 446
 Delta R.T. 0.006 min
 Lab File: VL041001.D
 Acq: 23 Jan 2024 18:07



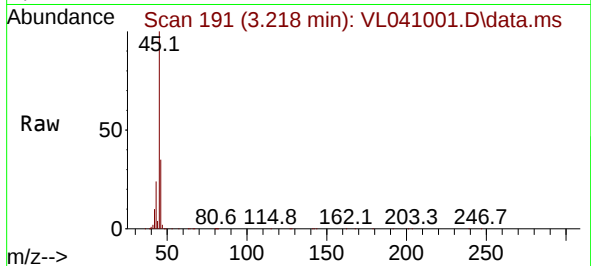
Tgt Ion:101 Resp: 8623
 Ion Ratio Lower Upper
 101 100
 151 0.0 56.6 85.0#





#13
Ethanol
Concen: 399.068 ppbv
RT: 3.218 min Scan# 191
Delta R.T. 0.010 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

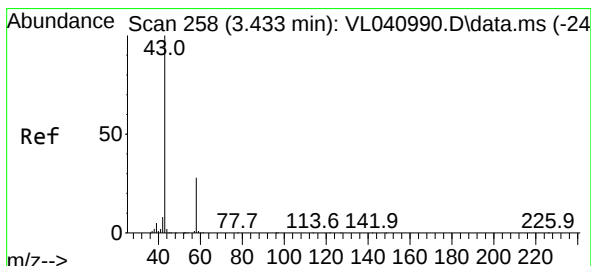
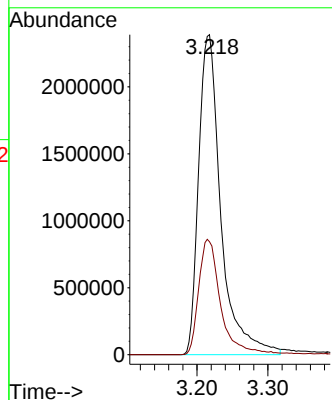
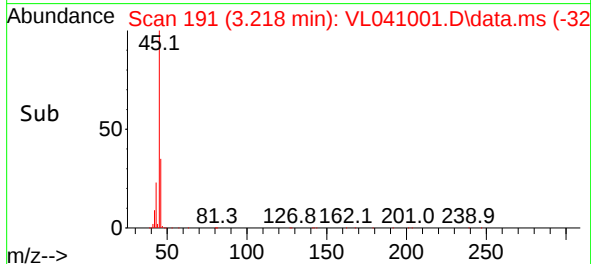
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp: 520694
Ion Ratio Lower Upper
45 100
46 36.4 16.2 64.8

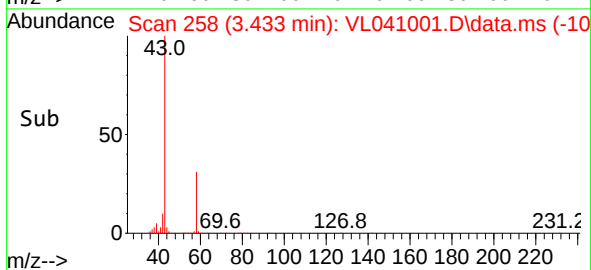
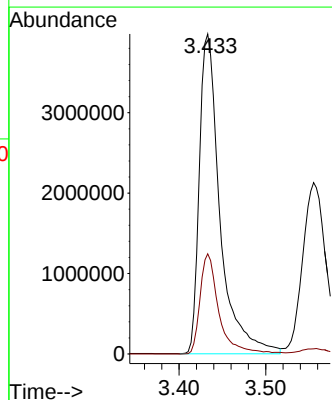
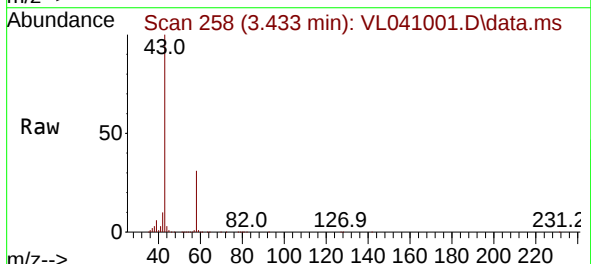
Manual Integrations
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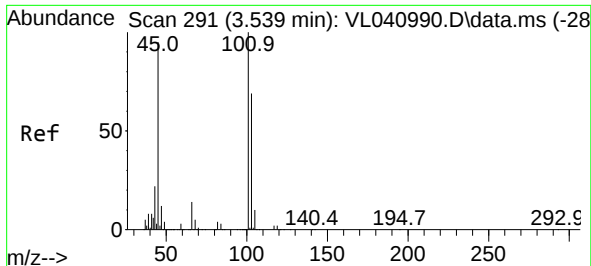
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#15
Acetone
Concen: 51.932 ppbv
RT: 3.433 min Scan# 258
Delta R.T. 0.000 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

Tgt Ion: 43 Resp: 6590198
Ion Ratio Lower Upper
43 100
58 28.7 22.2 33.2





#19

Isopropyl Alcohol

Concen: 199.017 ppbv

RT: 3.555 min Scan# 291

Delta R.T. 0.016 min

Lab File: VL041001.D

Acq: 23 Jan 2024 18:07

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 45 Resp:14619318

Ion Ratio Lower Upper

45 100

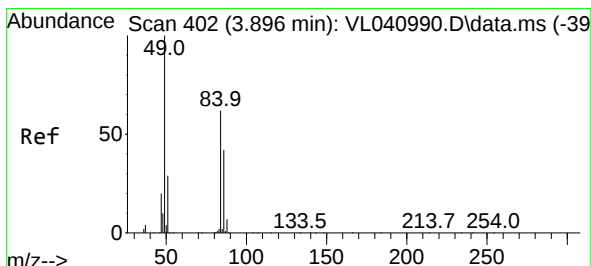
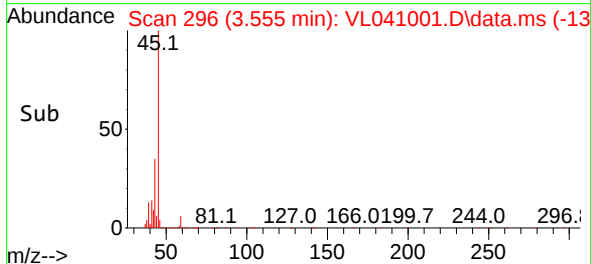
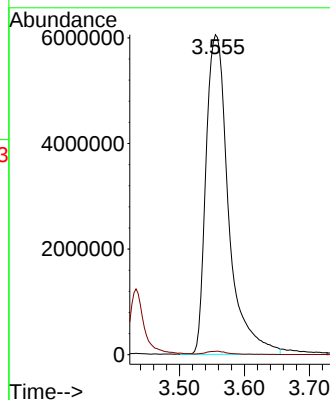
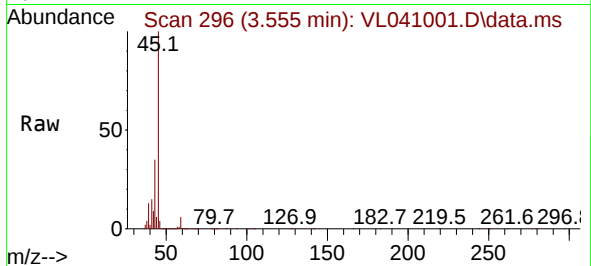
58 1.2 2.2 3.4

Manual Integrations

APPROVED

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Supervised By :Mahesh Dadoda 01/24/2024



#20

Methylene Chloride

Concen: 3.218 ppbv

RT: 3.906 min Scan# 405

Delta R.T. 0.010 min

Lab File: VL041001.D

Acq: 23 Jan 2024 18:07

Tgt Ion: 84 Resp: 157163

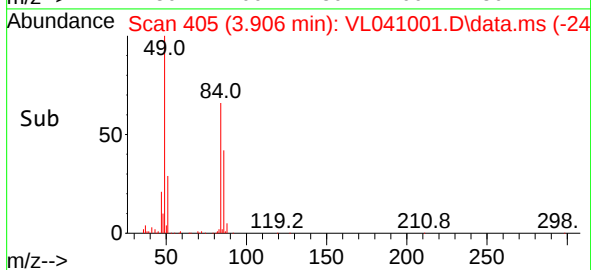
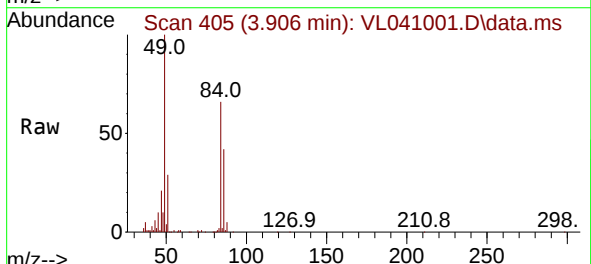
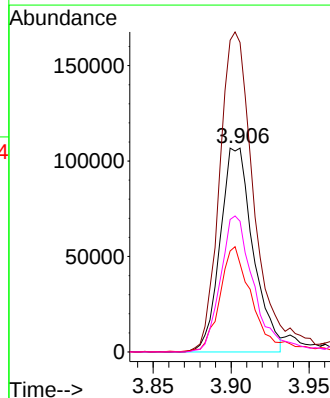
Ion Ratio Lower Upper

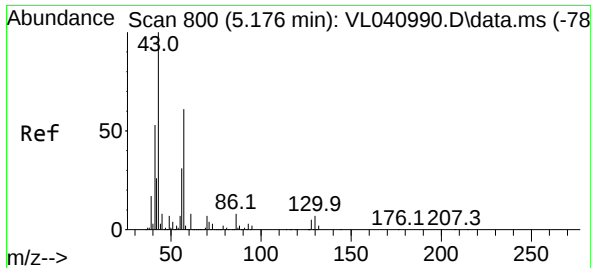
84 100

49 151.8 128.1 192.1

51 43.1 36.5 54.7

86 64.1 54.1 81.1





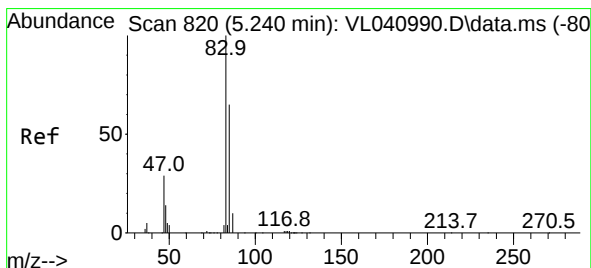
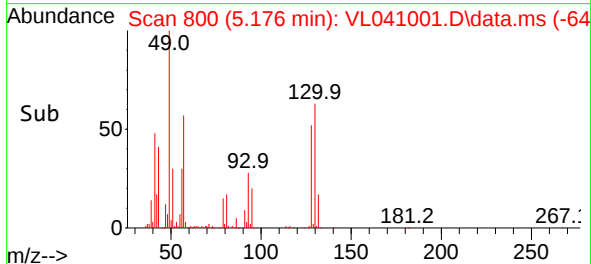
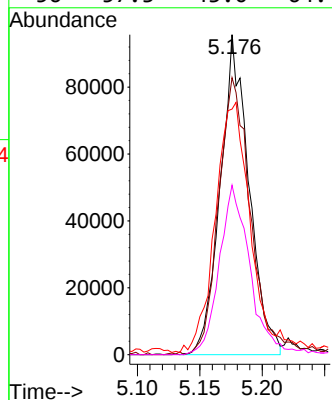
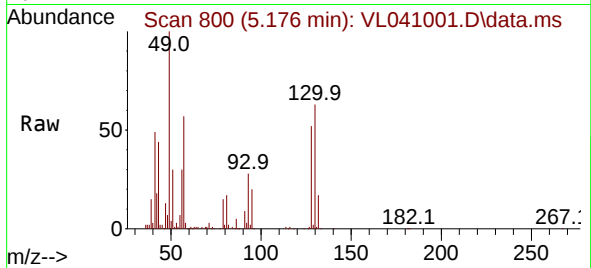
#26
Hexane
Concen: 1.560 ppbv
RT: 5.176 min Scan# 800
Delta R.T. 0.000 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 57 Resp: 152995
Ion Ratio Lower Upper
57 100
41 98.5 74.4 111.6
43 101.3 190.6 285.8
56 57.3 43.0 64.4

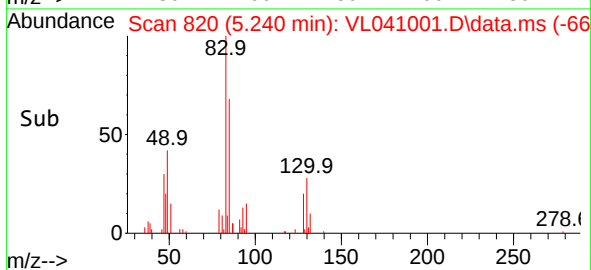
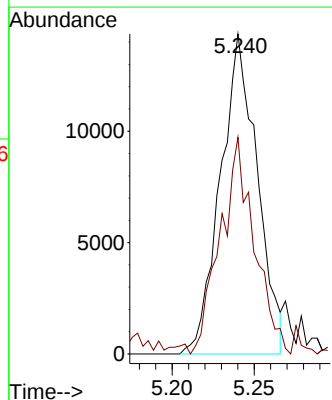
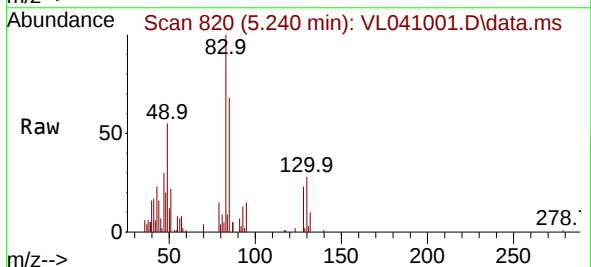
Manual Integrations
APPROVED

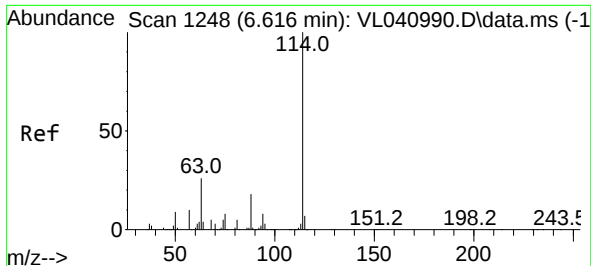
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#29
Chloroform
Concen: 0.128 ppbv
RT: 5.240 min Scan# 820
Delta R.T. 0.000 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

Tgt Ion: 83 Resp: 22335
Ion Ratio Lower Upper
83 100
85 65.2 51.6 77.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.616 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL041001.D

Acq: 23 Jan 2024 18:07

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:114 Resp: 259005

Ion Ratio Lower Upper

114 100

63 25.1 20.8 31.2

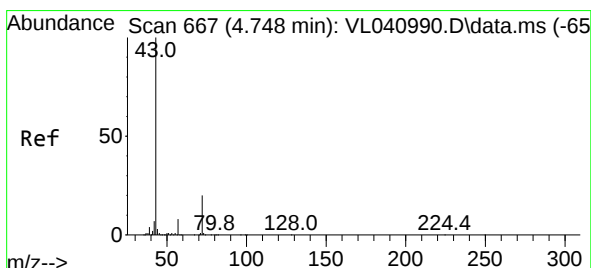
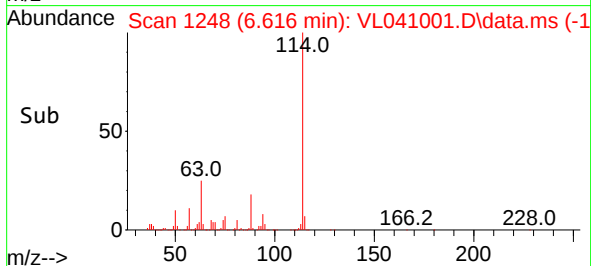
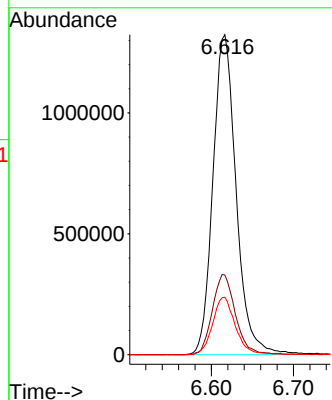
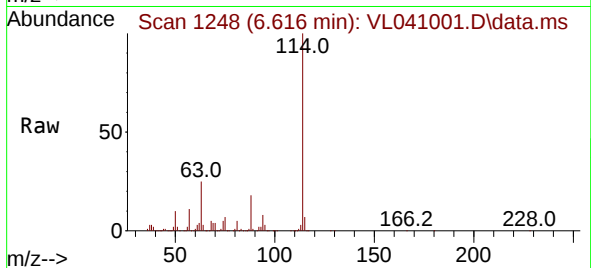
88 17.8 14.3 21.5

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Reviewed By :Semsettin Yesilyurt 01/24/2024

Supervised By :Mahesh Dadoda 01/24/2024



#34

2-Butanone

Concen: 5.803 ppbv

RT: 4.748 min Scan# 667

Delta R.T. 0.000 min

Lab File: VL041001.D

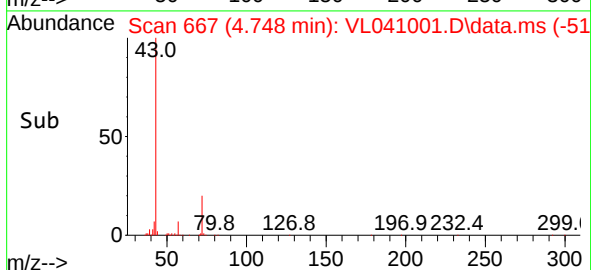
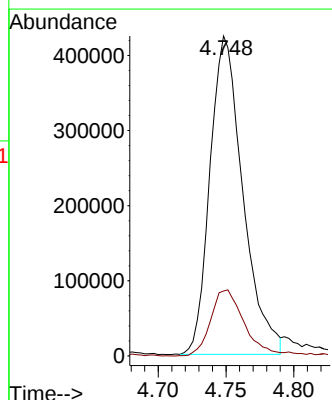
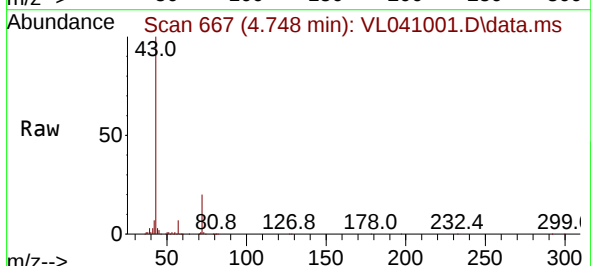
Acq: 23 Jan 2024 18:07

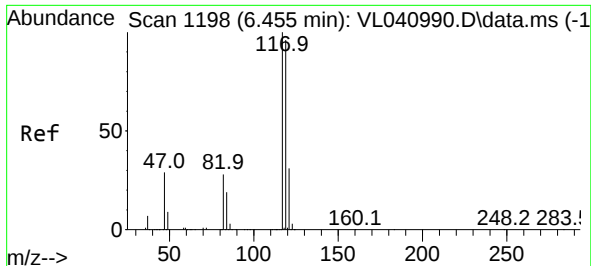
Tgt Ion: 43 Resp: 716069

Ion Ratio Lower Upper

43 100

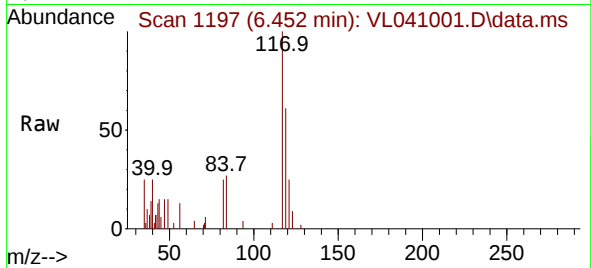
72 21.9 17.5 26.3





#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 6.452 min Scan# 1197
Delta R.T. -0.003 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

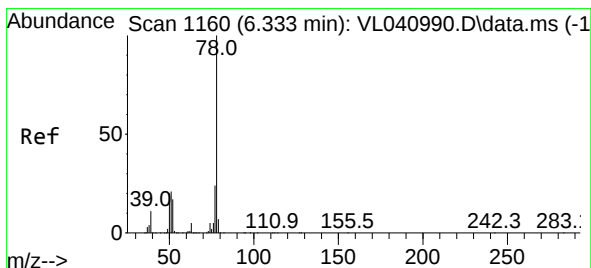
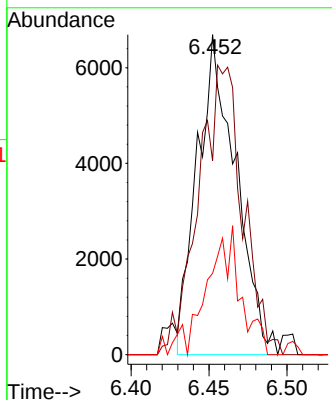
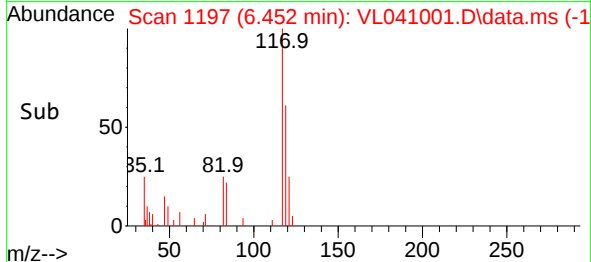
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



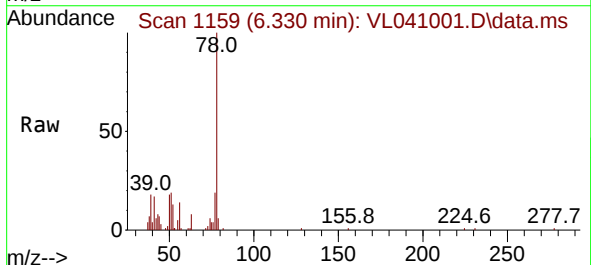
Tgt Ion: 117 Resp: 1149
Ion Ratio Lower Upper
117 100
119 60.6 76.9 115.3
121 25.4 24.7 37.1

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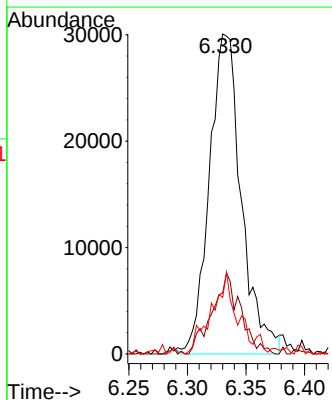
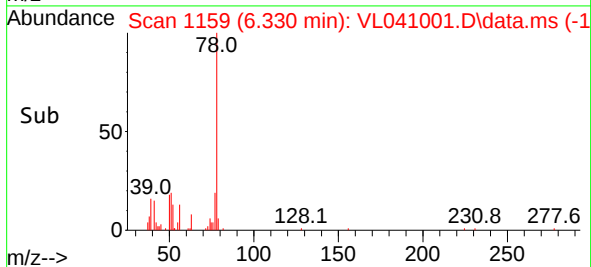
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024

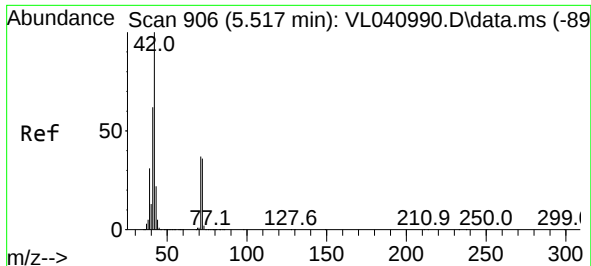


#36
Benzene
Concen: 0.268 ppbv m
RT: 6.330 min Scan# 1159
Delta R.T. -0.003 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07



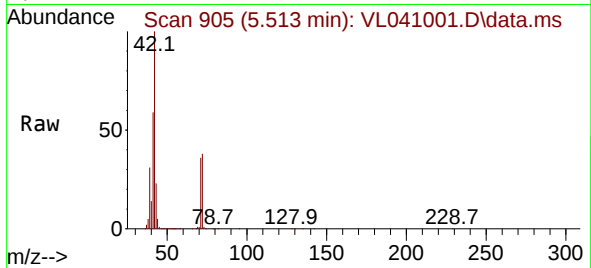
Tgt Ion: 78 Resp: 57253
Ion Ratio Lower Upper
78 100
77 19.0 19.0 28.4
50 17.7 15.8 23.6





#41
Tetrahydrofuran
Concen: 18.757 ppbv
RT: 5.513 min Scan# 906
Delta R.T. -0.003 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

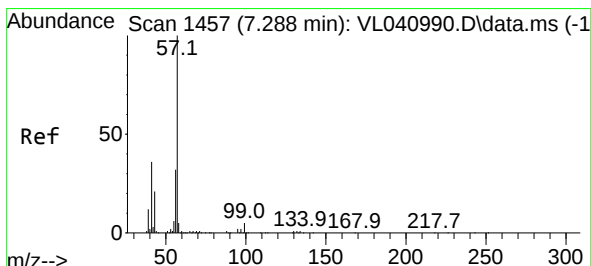
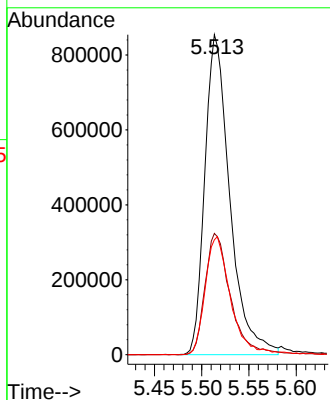
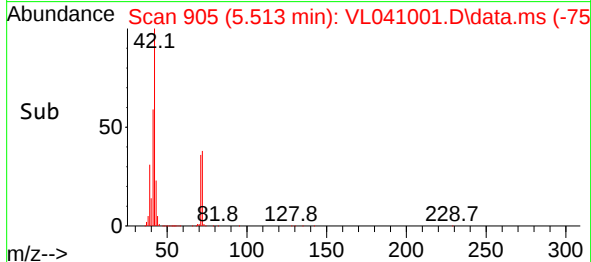
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 42 Resp: 157153
Ion Ratio Lower Upper
42 100
72 39.0 30.0 45.0
71 37.7 29.5 44.3

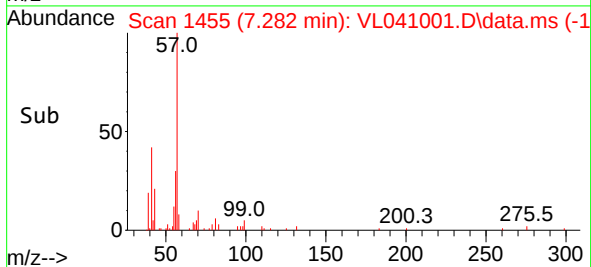
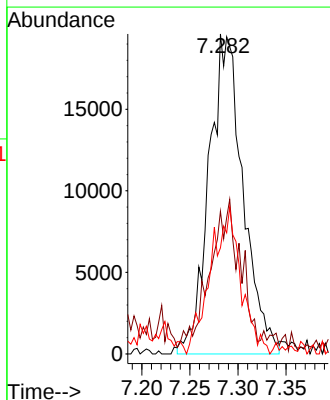
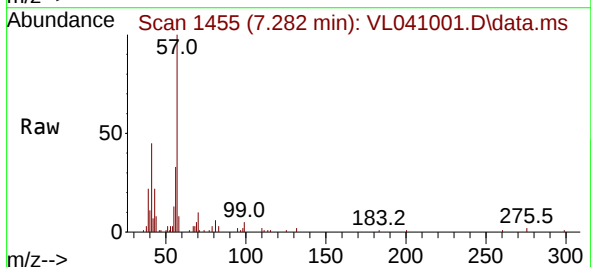
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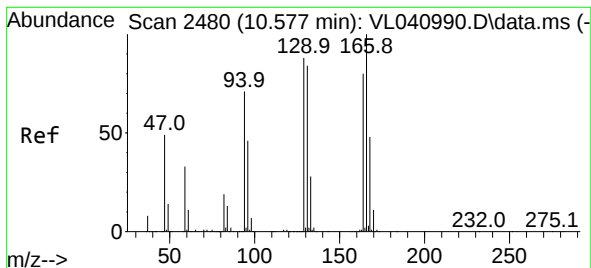
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#44
2,2,4-Trimethylpentane
Concen: 0.134 ppbv m
RT: 7.282 min Scan# 1455
Delta R.T. -0.006 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

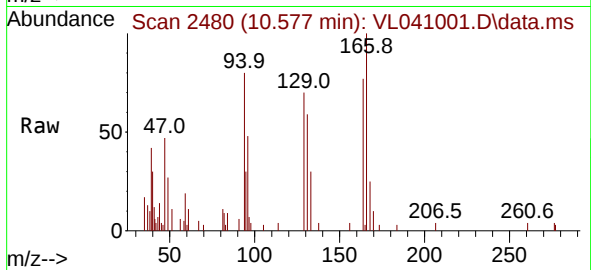
Tgt Ion: 57 Resp: 48217
Ion Ratio Lower Upper
57 100
41 44.0 28.6 43.0#
56 40.9 25.2 37.8#





#52
Tetrachloroethene
Concen: 0.118 ppbv m
RT: 10.577 min Scan# 2480
Delta R.T. 0.000 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

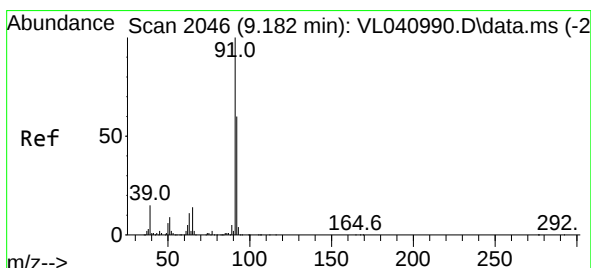
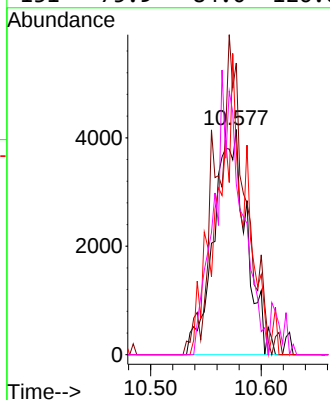
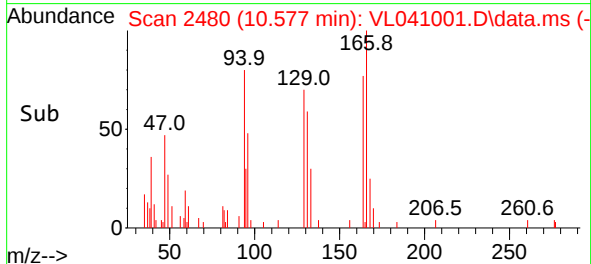
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:164 Resp: 841
Ion Ratio Lower Upper
164 100
166 129.6 100.2 150.2
129 91.0 87.9 131.9
131 75.9 84.0 126.0#

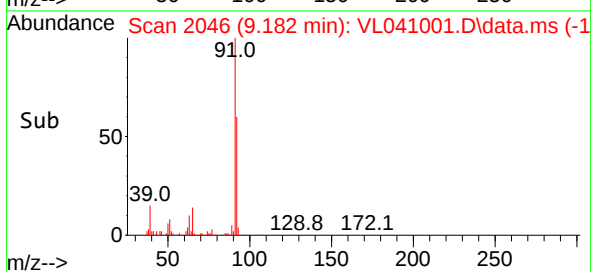
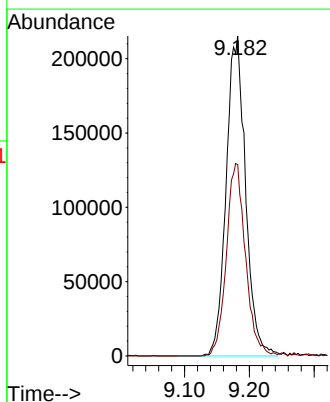
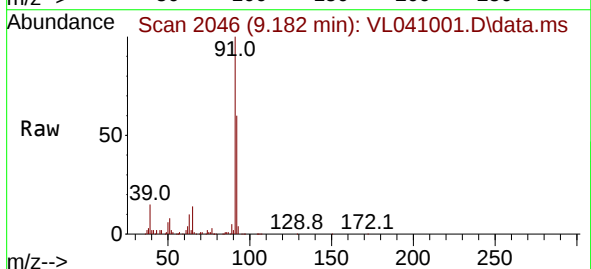
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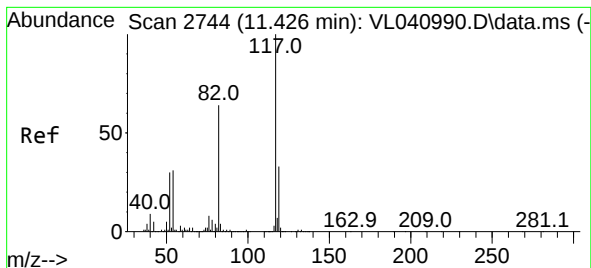
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#53
Toluene
Concen: 1.908 ppbv m
RT: 9.182 min Scan# 2046
Delta R.T. 0.000 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

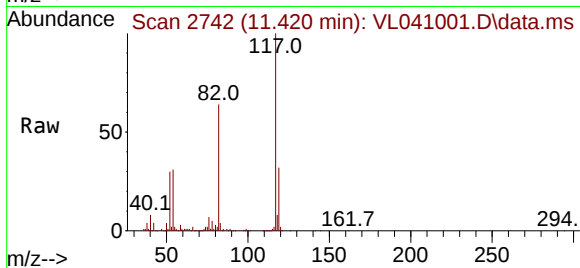
Tgt Ion: 91 Resp: 447157
Ion Ratio Lower Upper
91 100
92 60.2 48.6 72.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.420 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

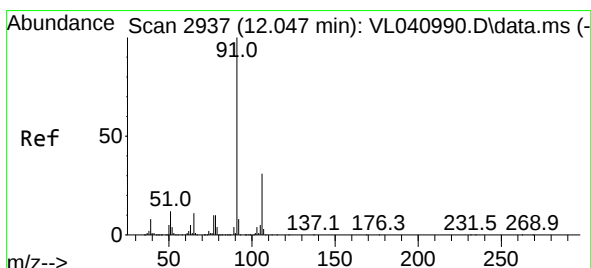
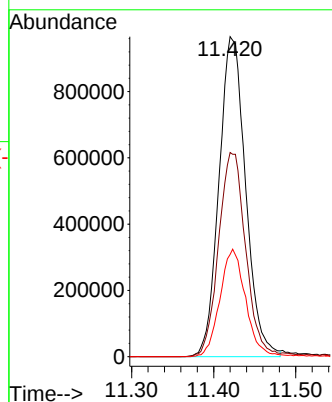
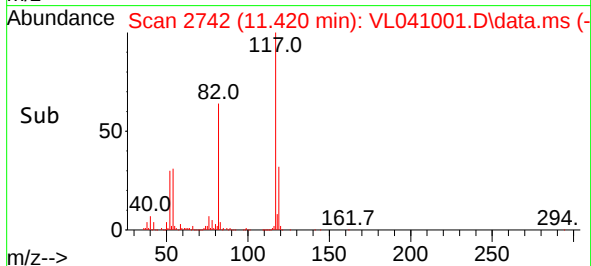
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:117 Resp: 217854
Ion Ratio Lower Upper
117 100
82 66.5 51.7 77.5
119 32.8 23.8 35.6

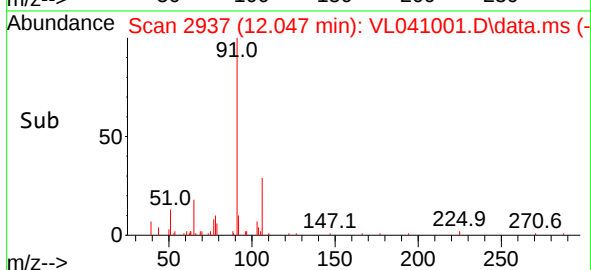
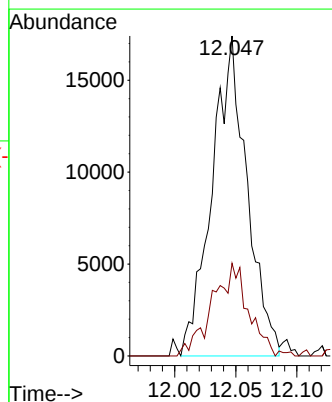
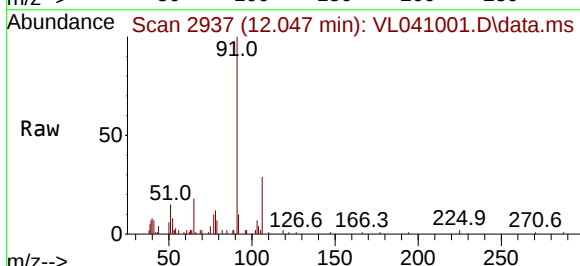
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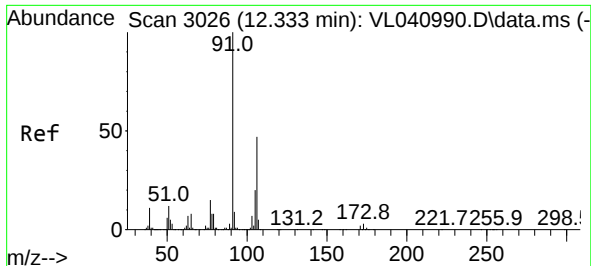
Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#58
Ethyl Benzene
Concen: 0.119 ppbv m
RT: 12.047 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

Tgt Ion: 91 Resp: 34747
Ion Ratio Lower Upper
91 100
106 28.9 24.8 37.2





#59

m/p-Xylene

Concen: 0.404 ppbv m

RT: 12.301 min Scan# 3026

Delta R.T. -0.032 min

Lab File: VL041001.D

Acq: 23 Jan 2024 18:07

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 91 Resp: 10312

Ion Ratio Lower Upper

91 100

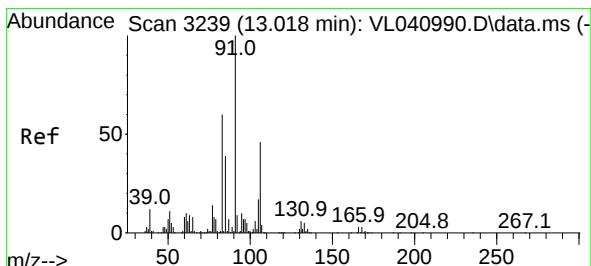
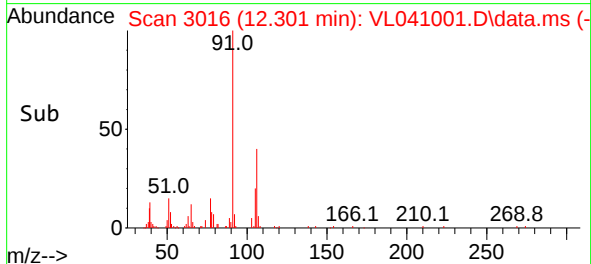
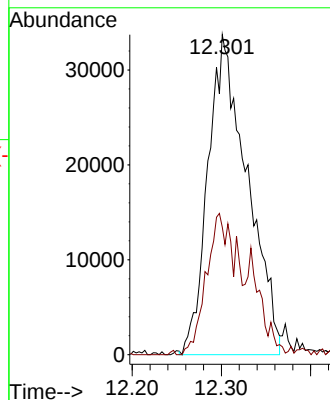
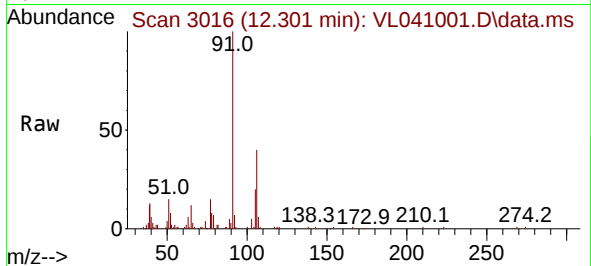
106 0.0 34.9 52.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/24/2024

Supervised By :Mahesh Dadoda 01/24/2024



#60

o-Xylene

Concen: 0.152 ppbv m

RT: 13.008 min Scan# 3236

Delta R.T. -0.010 min

Lab File: VL041001.D

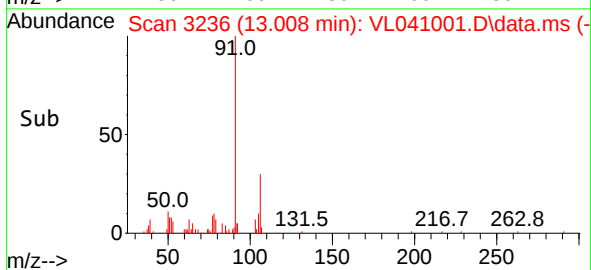
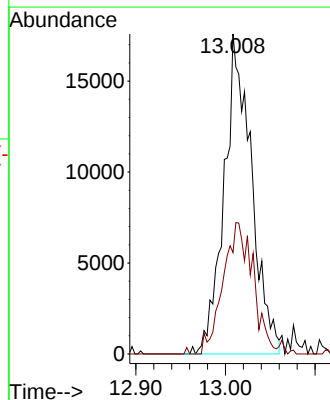
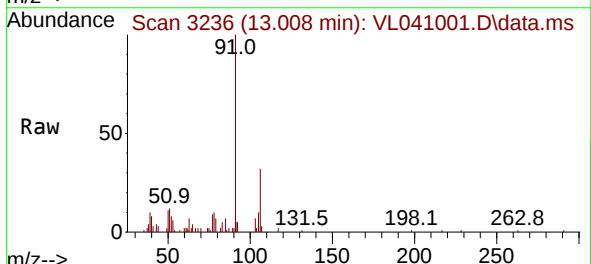
Acq: 23 Jan 2024 18:07

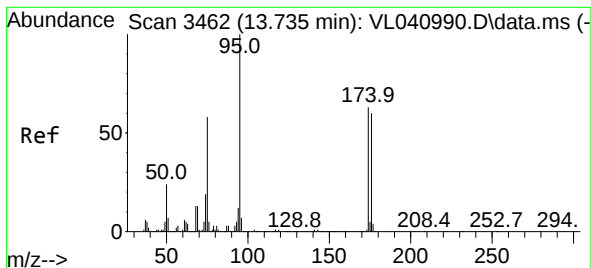
Tgt Ion: 91 Resp: 37257

Ion Ratio Lower Upper

91 100

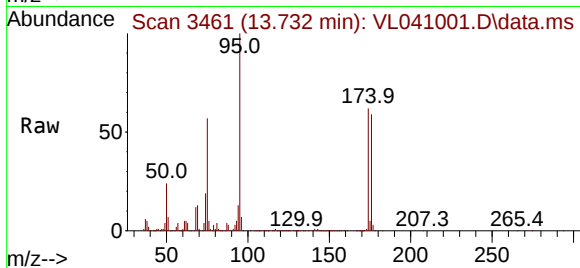
106 45.9 22.6 67.7





#68
1-Bromo-4-Fluorobenzene
Concen: 9.659 ppbv
RT: 13.732 min Scan# 3462
Delta R.T. -0.003 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07

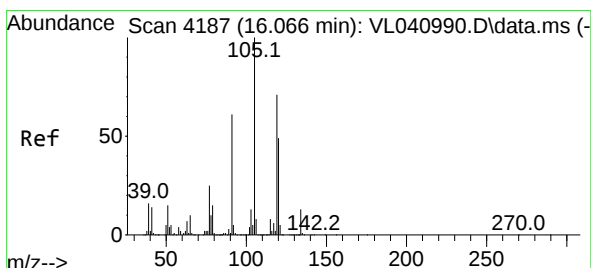
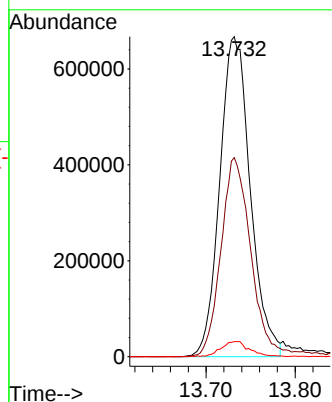
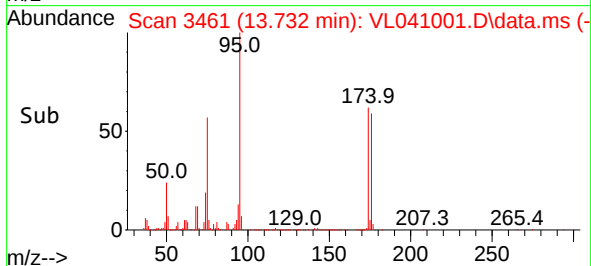
Instrument : MSVOA_L
ClientSampleId : IA1DUP



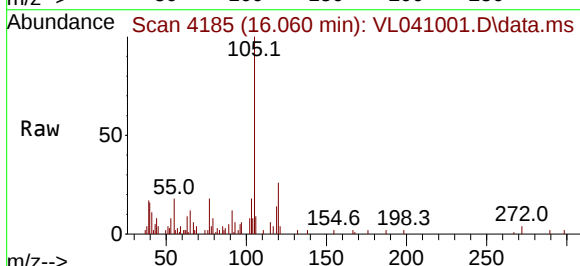
Tgt Ion: 95 Resp: 158940
Ion Ratio Lower Upper
95 100
174 63.0 49.1 73.7
175 4.6 3.7 5.5

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/24/2024
Supervised By :Mahesh Dadoda 01/24/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.106 ppbv m
RT: 16.060 min Scan# 4185
Delta R.T. -0.006 min
Lab File: VL041001.D
Acq: 23 Jan 2024 18:07



Tgt Ion:105 Resp: 29138
Ion Ratio Lower Upper
105 100
120 25.9 39.3 58.9#
91 11.5 48.7 73.1#
77 17.7 19.8 29.8#

