

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
 Data File : VL039451.D
 Acq On : 12 Jul 2022 16:36
 Operator : SY/AP
 Sample : N3660-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022
 Supervised By :Mahesh Dadoda 07/13/2022

Quant Time: Jul 13 01:36:02 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 13 11:29:30 2022

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.687	49	1471201	10.000	ppbv	0.04
33) 1,4-Difluorobenzene	7.198	114	4108692	10.000	ppbv	0.04
55) Chlorobenzene-d5	12.108	117	3737963	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.436	95	2854186	10.293	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.070	85	99022	0.467	ppbv	96
3) Chlorodifluoromethane	3.009	51	36198	0.194	ppbv #	91
4) Chloromethane	3.163	50	11365m	0.111	ppbv	
9) Propene	3.038	41	18405	0.218	ppbv	92
11) Trichlorofluoromethane	3.970	101	79567	0.336	ppbv	93
13) Ethanol	3.620	45	104549m	21.378	ppbv	
15) Acetone	3.867	43	747258	4.293	ppbv	95
17) tert-Butyl alcohol	4.317	59	16778m	0.114	ppbv	
20) Methylene Chloride	4.365	84	1730944	24.950	ppbv	98
26) Hexane	5.710	57	3162343	21.982	ppbv #	37
27) Carbon Disulfide	4.574	76	80968	0.466	ppbv #	87
29) Chloroform	5.771	83	70135	0.280	ppbv #	81
32) 1,1,1-Trichloroethane	6.529	97	14891m	0.060	ppbv	
34) 2-Butanone	5.269	43	44500m	0.215	ppbv	
52) Tetrachloroethene	11.240	164	326890m	2.554	ppbv	
53) Toluene	9.832	91	84390	0.230	ppbv	98
58) Ethyl Benzene	12.729	91	102423	0.212	ppbv	94
59) m/p-Xylene	12.989	91	302296m	0.710	ppbv	
60) o-Xylene	13.709	91	200004m	0.496	ppbv	
65) tert-Butylbenzene	16.780	119	63780	0.112	ppbv #	61
67) sec-Butylbenzene	17.619	105	88904	0.116	ppbv	95
72) 4-Ethyltoluene	15.854	105	177446m	0.375	ppbv	
73) 1,3,5-Trimethylbenzene	16.015	105	153174	0.352	ppbv	91
74) 1,2,4-Trimethylbenzene	16.777	105	579183	1.203	ppbv #	69
79) Naphthalene	22.217	128	172313	0.520	ppbv	96

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

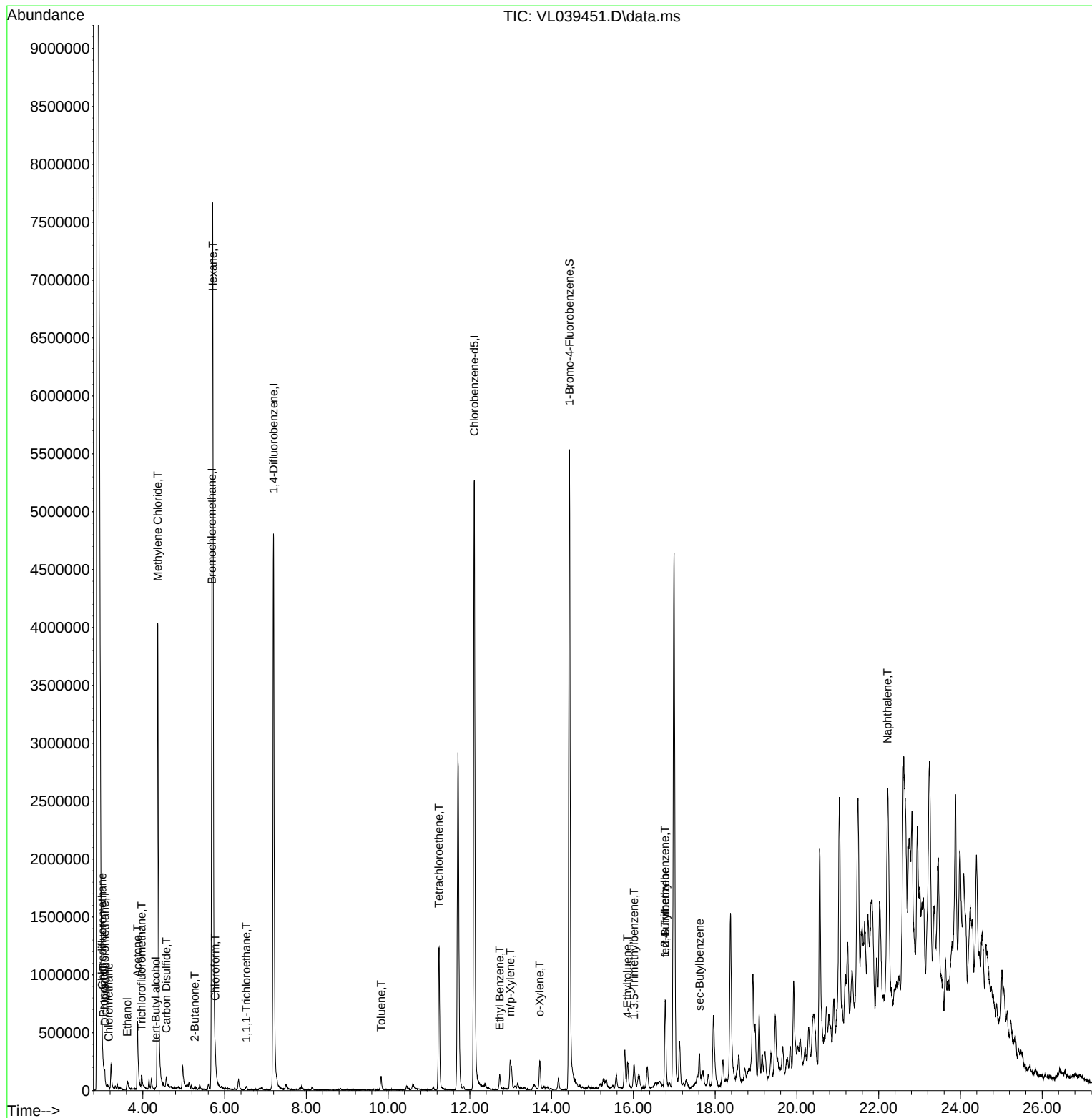
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
Data File : VL039451.D
Acq On : 12 Jul 2022 16:36
Operator : SY/AP
Sample : N3660-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

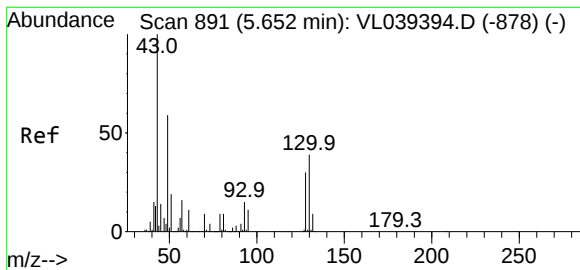
Instrument :
MSVOA_L
ClientSampleId :
SG-1

Quant Time: Jul 13 01:36:02 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022





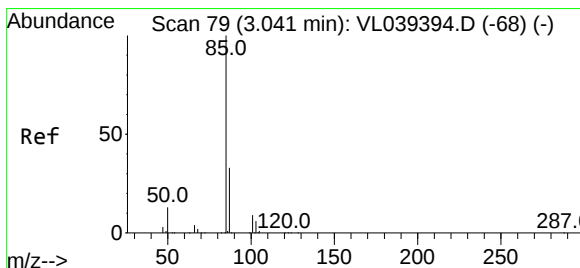
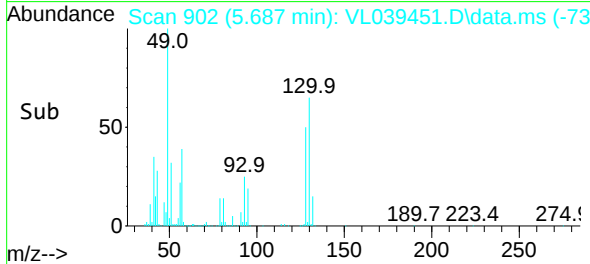
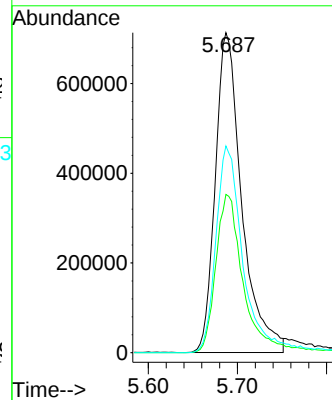
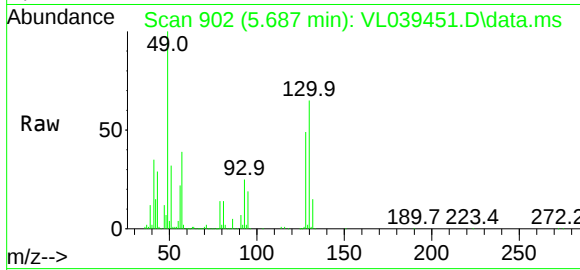
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.687 min Scan# 90
Delta R.T. 0.035 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 49 Resp: 147120
Ion Ratio Lower Upper
49 100
128 53.1 26.7 80.0
130 67.4 34.3 102.8

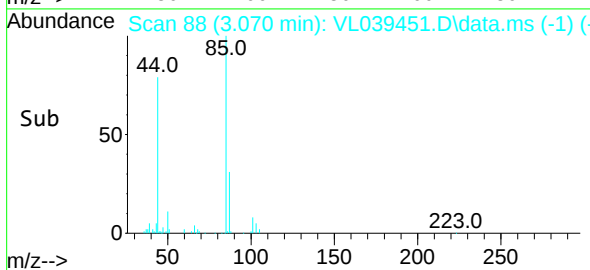
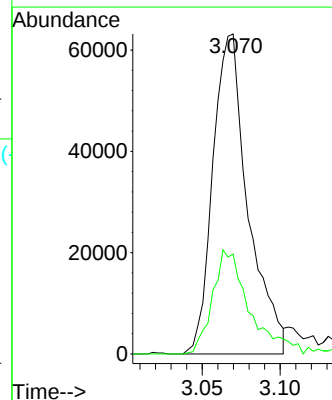
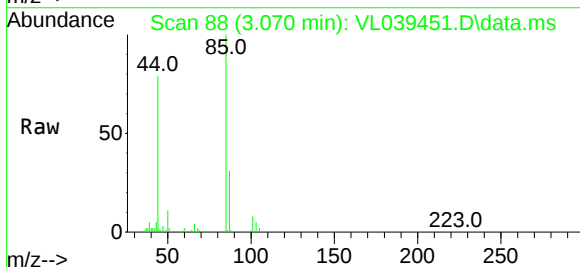
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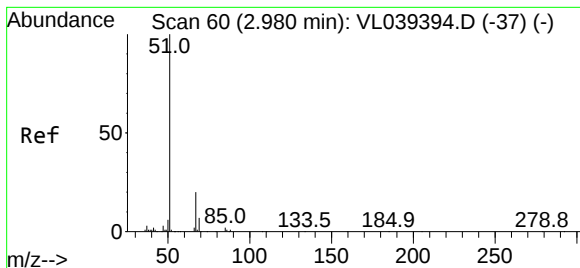
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#2
Dichlorodifluoromethane
Concen: 0.467 ppbv
RT: 3.070 min Scan# 88
Delta R.T. 0.029 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

Tgt Ion: 85 Resp: 99022
Ion Ratio Lower Upper
85 100
87 31.2 26.7 40.1





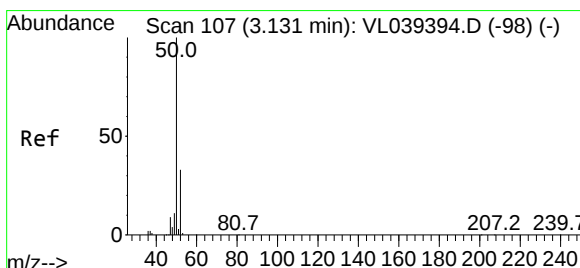
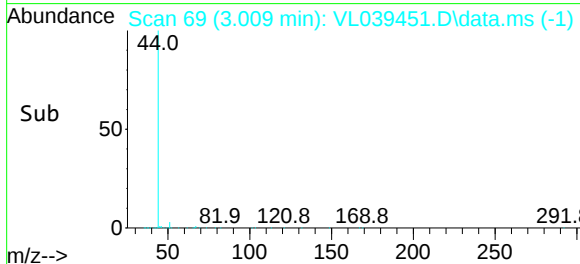
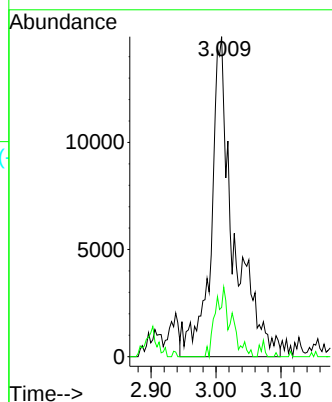
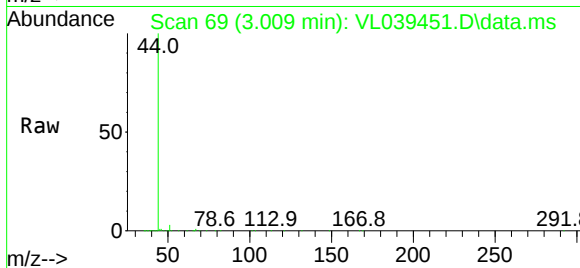
#3
Chlorodifluoromethane
Concen: 0.194 ppbv
RT: 3.009 min Scan# 60
Delta R.T. 0.029 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 51 Resp: 36198
Ion Ratio Lower Upper
51 100
67 15.3 15.7 23.5

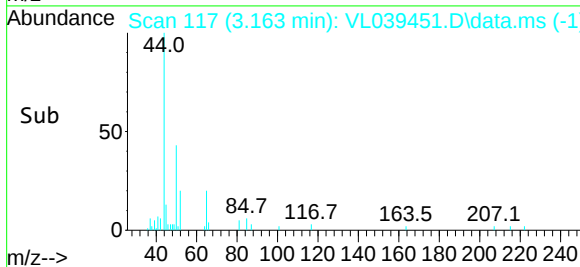
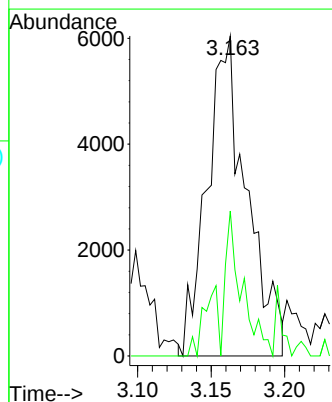
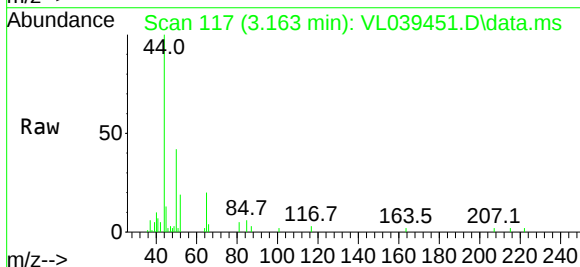
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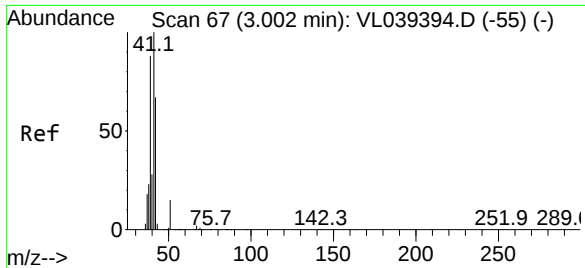
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#4
Chloromethane
Concen: 0.111 ppbv m
RT: 3.163 min Scan# 117
Delta R.T. 0.032 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

Tgt Ion: 50 Resp: 11365
Ion Ratio Lower Upper
50 100
52 45.3 26.5 39.7





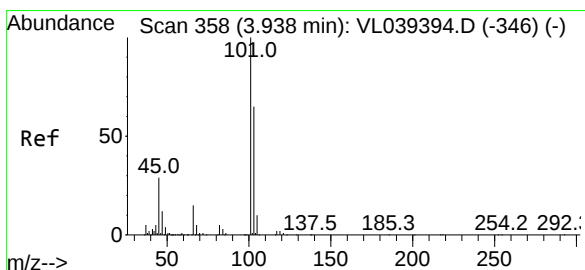
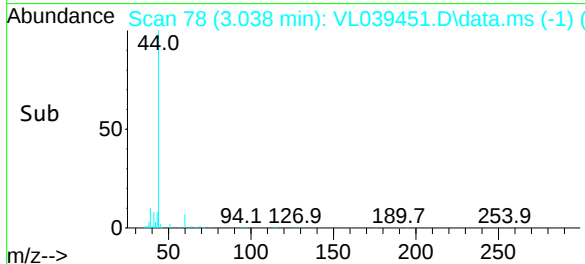
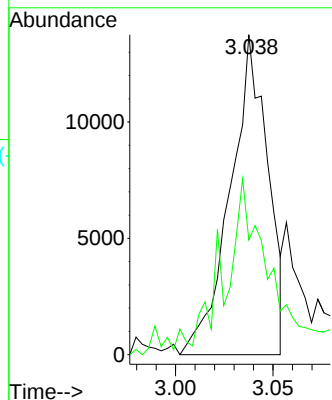
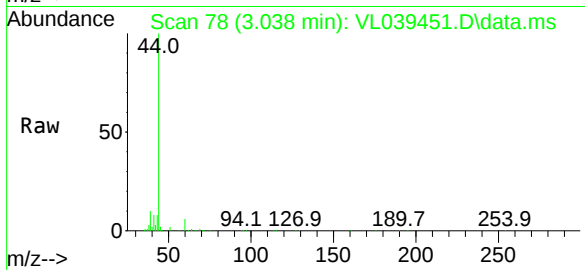
#9
Propene
Concen: 0.218 ppbv
RT: 3.038 min Scan# 71
Delta R.T. 0.035 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 41 Resp: 1840
Ion Ratio Lower Upper
41 100
42 75.5 55.2 82.8

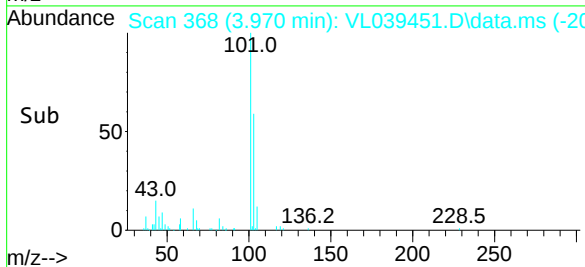
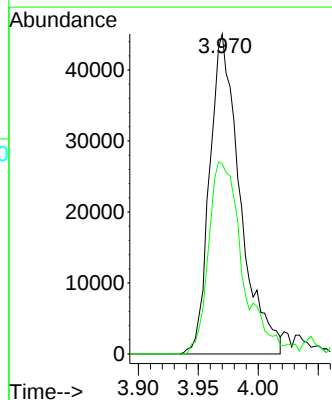
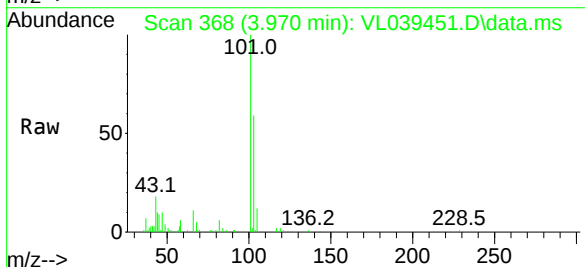
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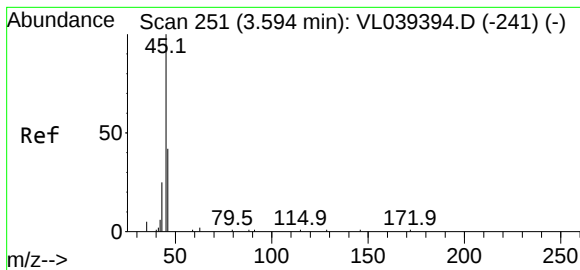
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#11
Trichlorofluoromethane
Concen: 0.336 ppbv
RT: 3.970 min Scan# 368
Delta R.T. 0.032 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

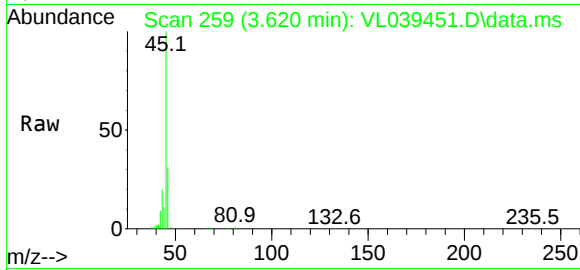
Tgt Ion:101 Resp: 79567
Ion Ratio Lower Upper
101 100
103 59.4 51.8 77.8





#13
Ethanol
Concen: 21.378 ppbv m
RT: 3.620 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

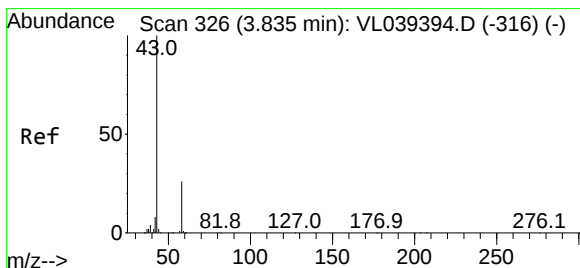
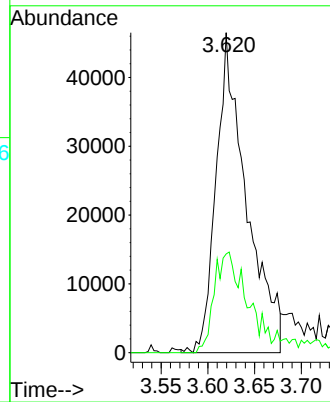
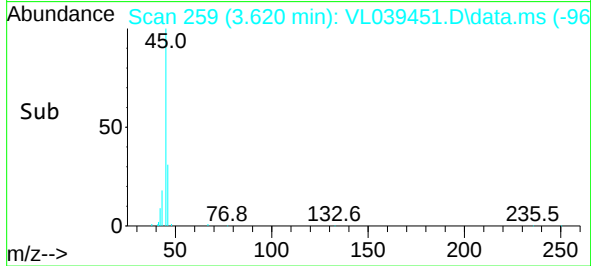
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 45 Resp: 104549
Ion Ratio Lower Upper
45 100
46 40.3 22.8 91.2

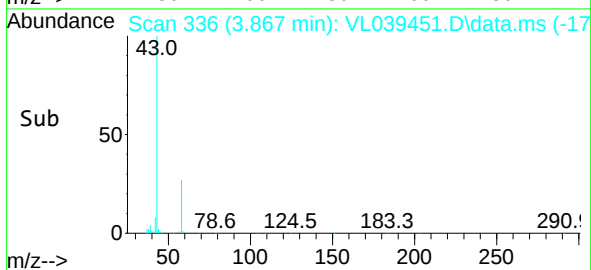
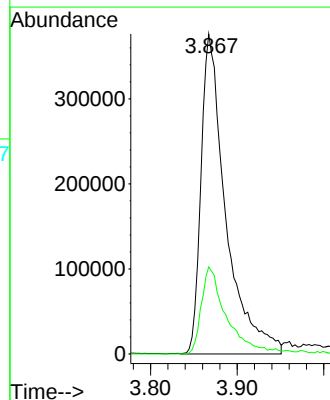
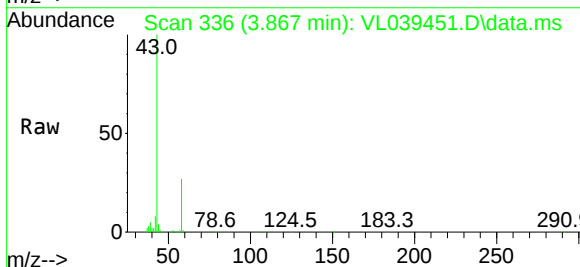
Manual Integrations
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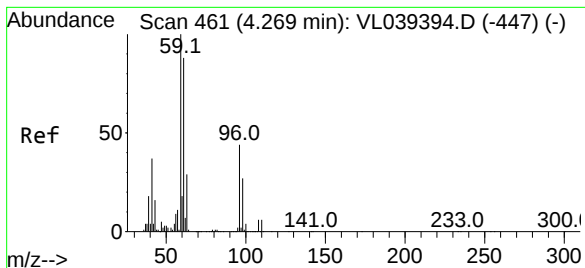
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#15
Acetone
Concen: 4.293 ppbv
RT: 3.867 min Scan# 336
Delta R.T. 0.032 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

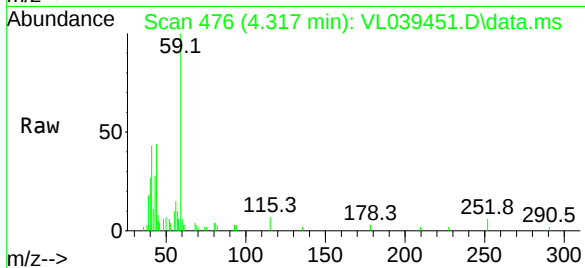
Tgt Ion: 43 Resp: 747258
Ion Ratio Lower Upper
43 100
58 28.8 21.0 31.6





#17
tert-Butyl alcohol
Concen: 0.114 ppbv m
RT: 4.317 min Scan# 417
Delta R.T. 0.048 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

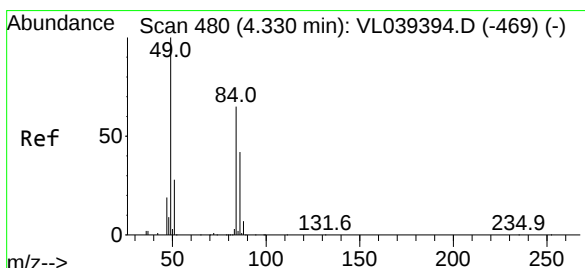
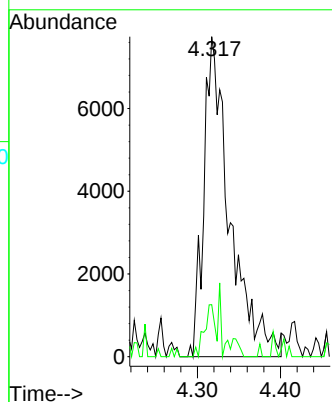
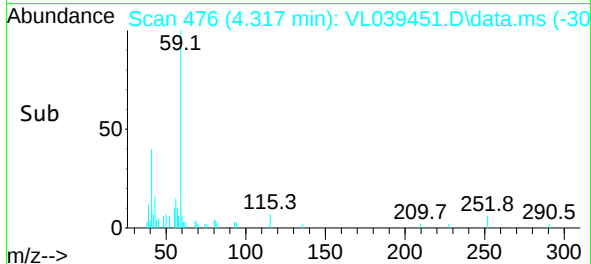
Instrument :
MSVOA_L
ClientSampleId :
SG-1



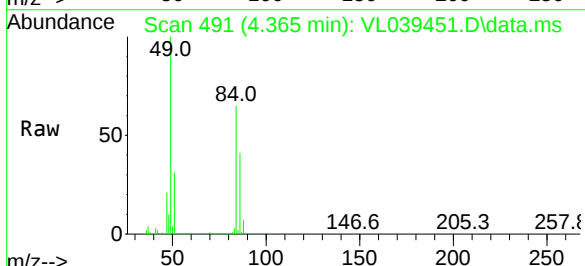
Tgt Ion: 59 Resp: 16778
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1

Manual Integrations
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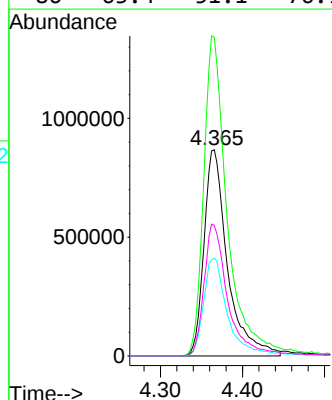
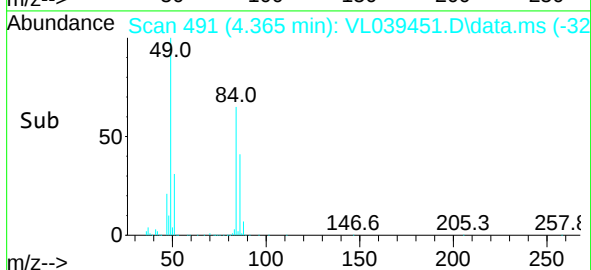
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

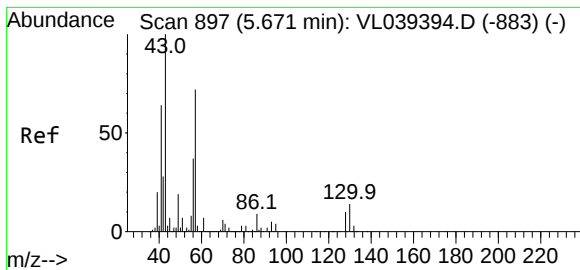


#20
Methylene Chloride
Concen: 24.950 ppbv
RT: 4.365 min Scan# 491
Delta R.T. 0.035 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36



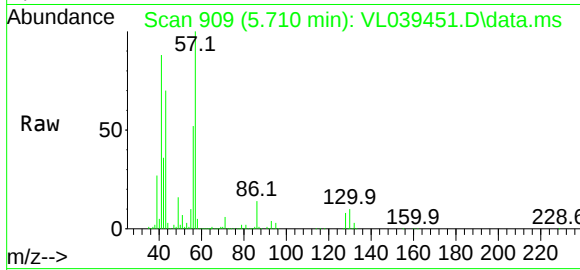
Tgt Ion: 84 Resp: 1730944
Ion Ratio Lower Upper
84 100
49 154.6 123.1 184.7
51 47.4 34.4 51.6
86 63.4 51.1 76.7





#26
Hexane
Concen: 21.982 ppbv
RT: 5.710 min Scan# 909
Delta R.T. 0.039 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

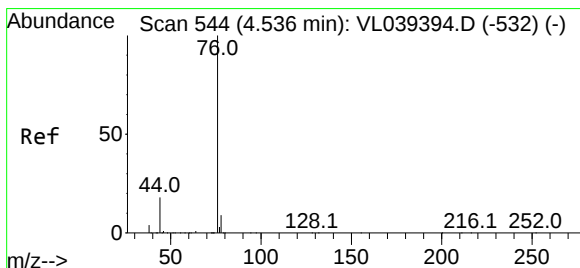
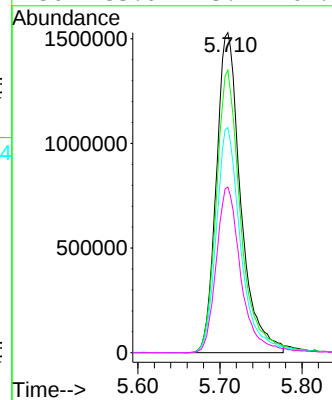
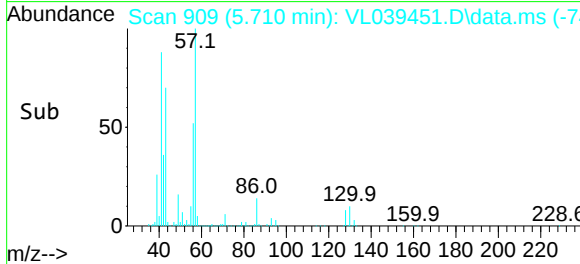
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 57 Resp: 316234
Ion Ratio Lower Upper
57 100
41 89.0 76.9 115.3
43 71.0 191.0 286.6
56 53.0 43.2 64.8

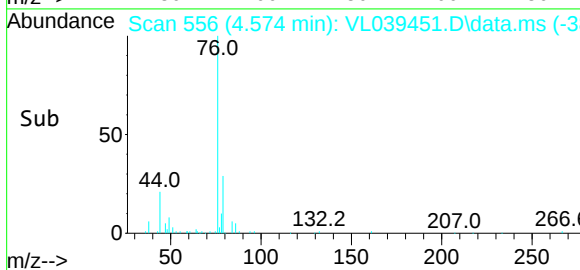
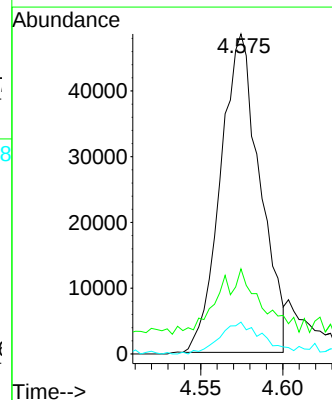
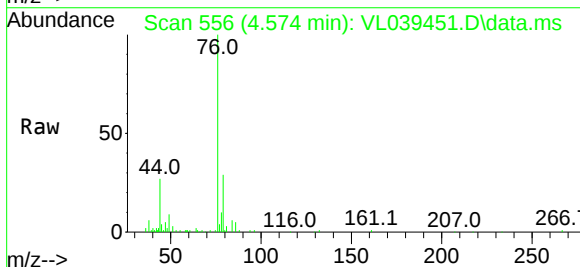
Manual Integrations
APPROVED

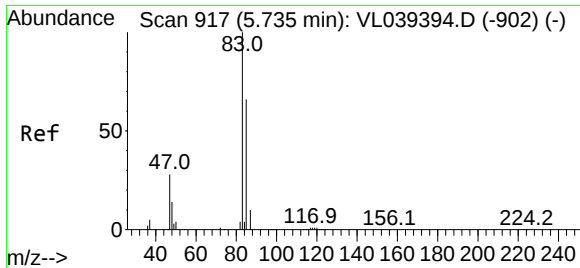
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#27
Carbon Disulfide
Concen: 0.466 ppbv
RT: 4.574 min Scan# 556
Delta R.T. 0.039 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

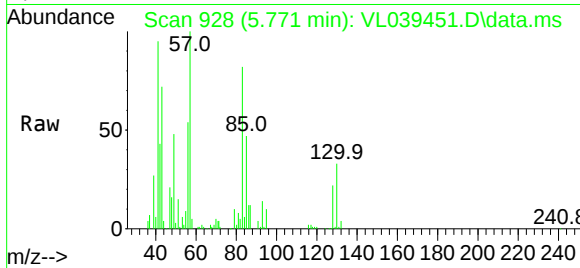
Tgt Ion: 76 Resp: 80968
Ion Ratio Lower Upper
76 100
44 24.7 14.6 21.8#
78 12.9 7.8 11.6#





#29
Chloroform
Concen: 0.280 ppbv
RT: 5.771 min Scan# 917
Delta R.T. 0.035 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

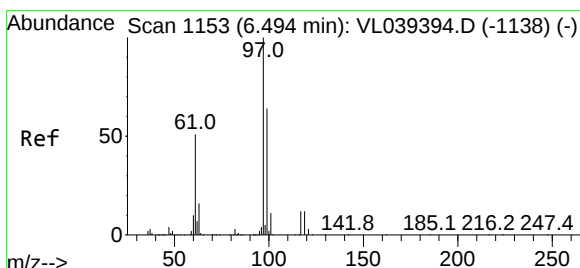
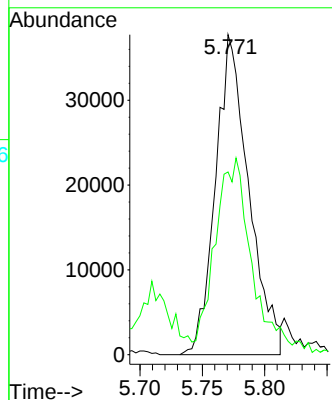
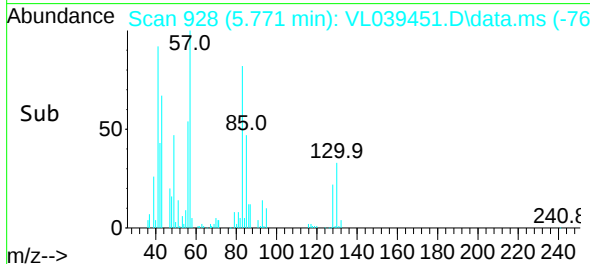
Instrument :
MSVOA_L
ClientSampleId :
SG-1



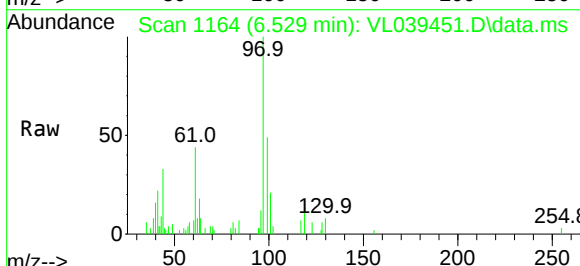
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Ion Ratio Lower Upper
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85 51.3 52.8 79.2

Manual Integrations
APPROVED

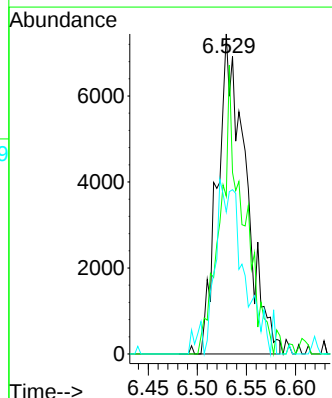
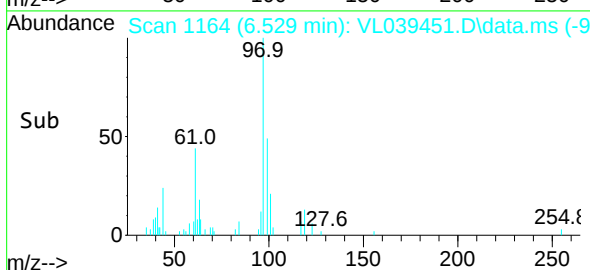
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

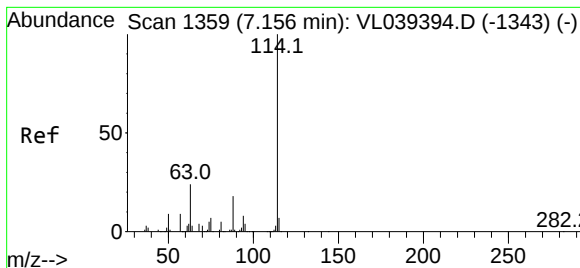


#32
1,1,1-Trichloroethane
Concen: 0.060 ppbv m
RT: 6.529 min Scan# 1164
Delta R.T. 0.035 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36



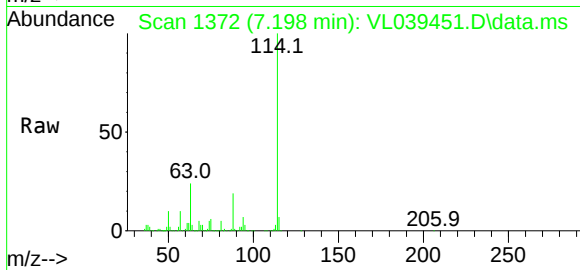
Tgt Ion: 97 Resp: 14891
Ion Ratio Lower Upper
97 100
99 73.4 52.3 78.5
61 56.8 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.198 min Scan# 114
Delta R.T. 0.042 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

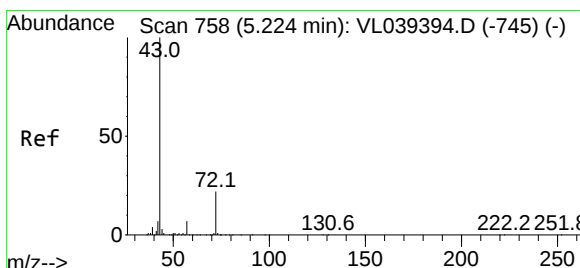
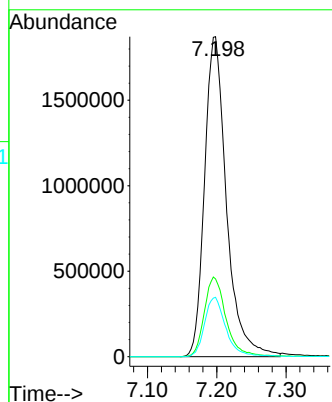
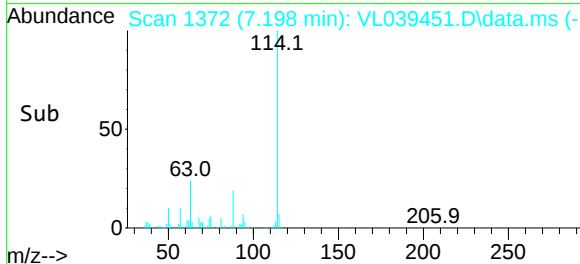
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion:114 Resp: 4108692
Ion Ratio Lower Upper
114 100
63 24.9 20.2 30.4
88 18.3 14.5 21.7

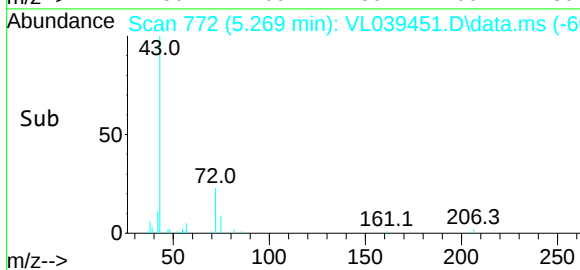
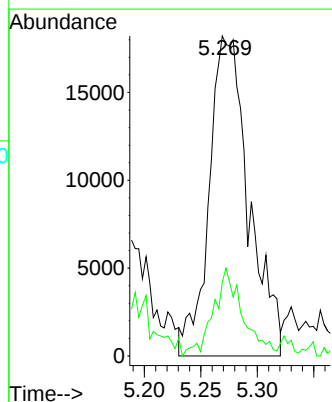
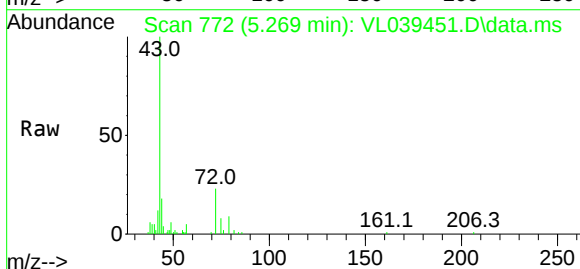
Manual Integrations
APPROVED

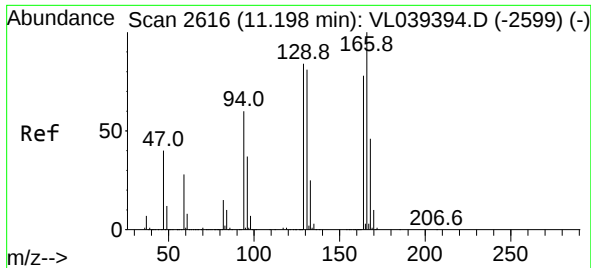
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#34
2-Butanone
Concen: 0.215 ppbv m
RT: 5.269 min Scan# 772
Delta R.T. 0.045 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

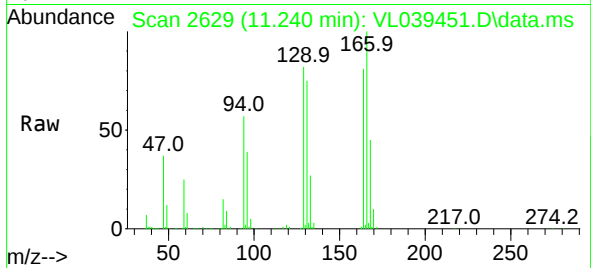
Tgt Ion: 43 Resp: 44500
Ion Ratio Lower Upper
43 100
72 14.2 17.9 26.9#





#52
Tetrachloroethene
Concen: 2.554 ppbv m
RT: 11.240 min Scan# 2191
Delta R.T. 0.042 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

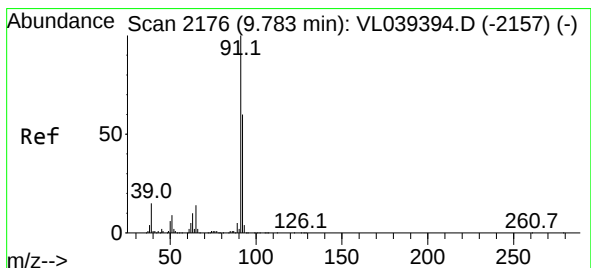
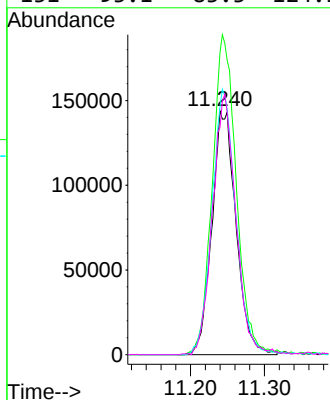
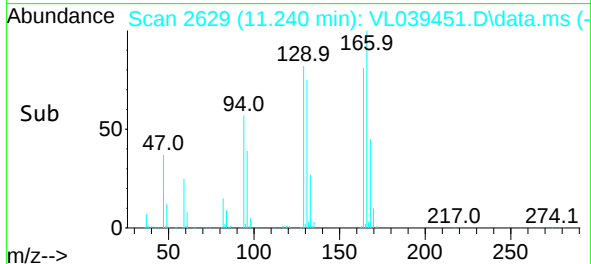
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion:164 Resp: 326890
Ion Ratio Lower Upper
164 100
166 123.9 102.2 153.2
129 101.6 85.8 128.8
131 93.1 83.3 124.9

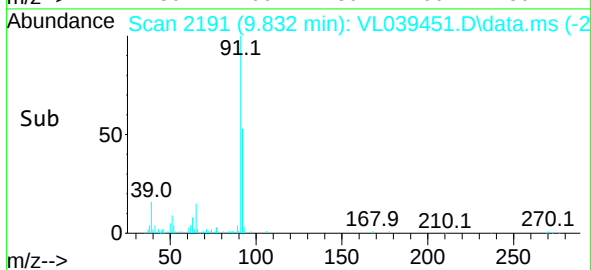
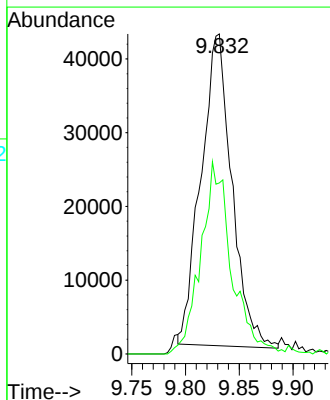
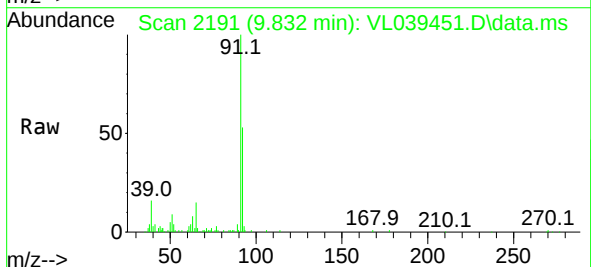
Manual Integrations
APPROVED

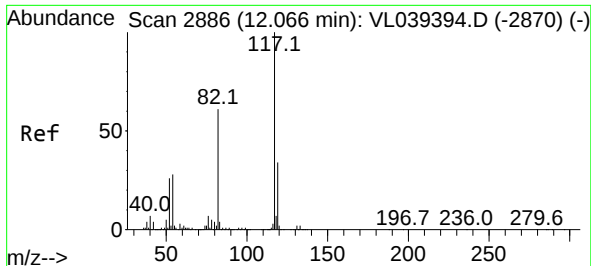
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#53
Toluene
Concen: 0.230 ppbv
RT: 9.832 min Scan# 2191
Delta R.T. 0.048 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

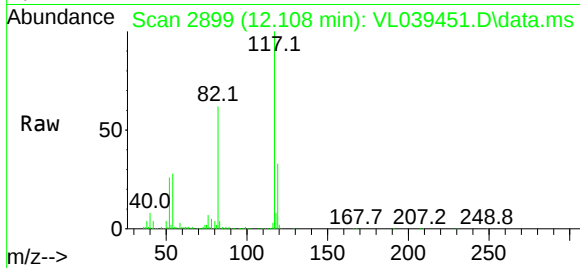
Tgt Ion: 91 Resp: 84390
Ion Ratio Lower Upper
91 100
92 62.0 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.108 min Scan# 2886
Delta R.T. 0.042 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

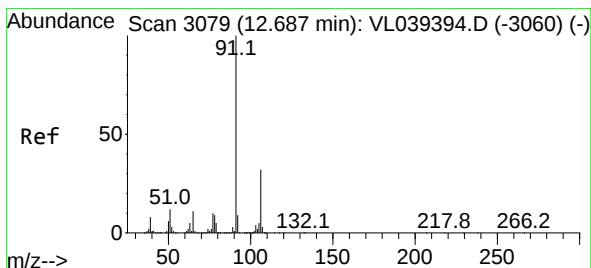
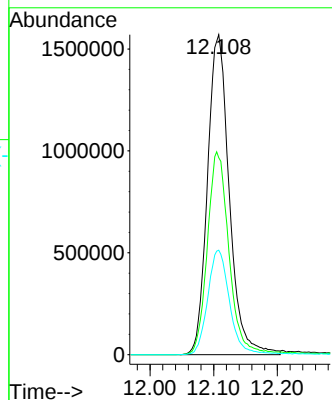
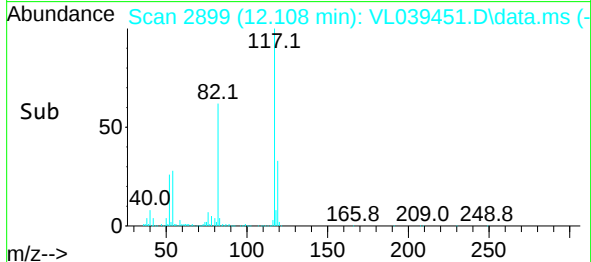
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 117 Resp: 373796
Ion Ratio Lower Upper
117 100
82 63.7 50.8 76.2
119 33.4 24.1 36.1

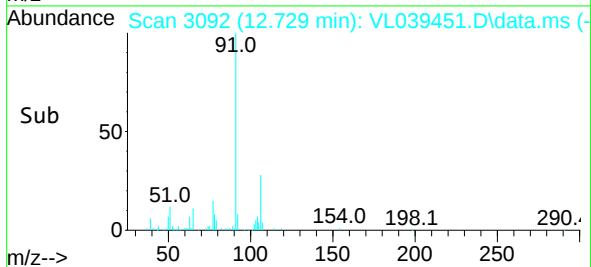
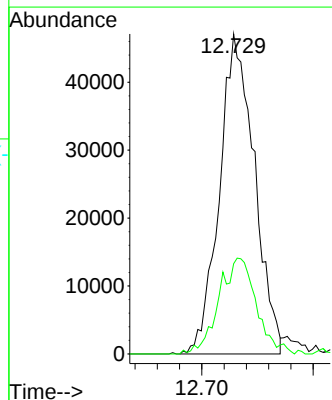
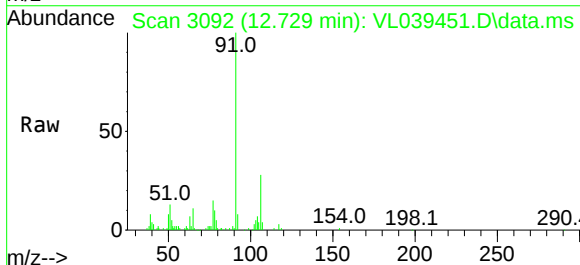
Manual Integrations
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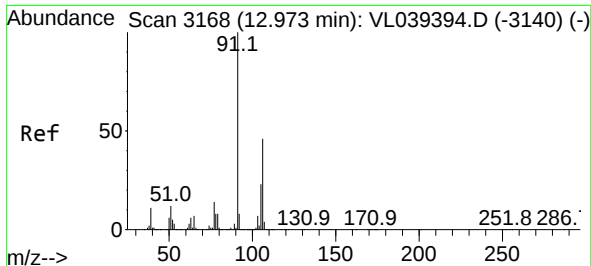
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#58
Ethyl Benzene
Concen: 0.212 ppbv
RT: 12.729 min Scan# 3092
Delta R.T. 0.042 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

Tgt Ion: 91 Resp: 102423
Ion Ratio Lower Upper
91 100
106 28.2 25.4 38.0





#59

m/p-Xylene

Concen: 0.710 ppbv m

RT: 12.989 min Scan# 3168

Delta R.T. 0.016 min

Lab File: VL039451.D

Acq: 12 Jul 2022 16:36

Instrument :

MSVOA_L

ClientSampleId :

SG-1

Tgt Ion: 91 Resp: 302290

Ion Ratio Lower Upper

91 100

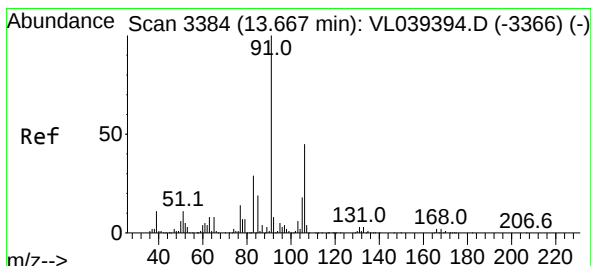
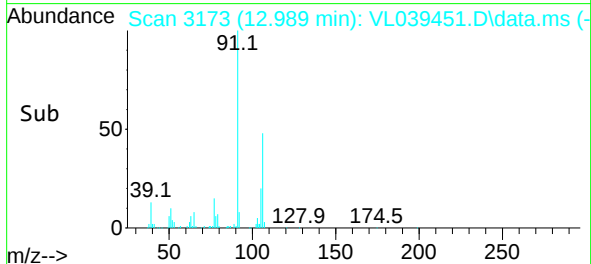
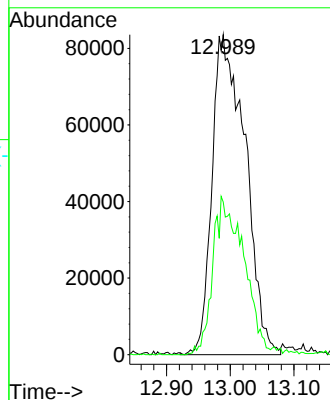
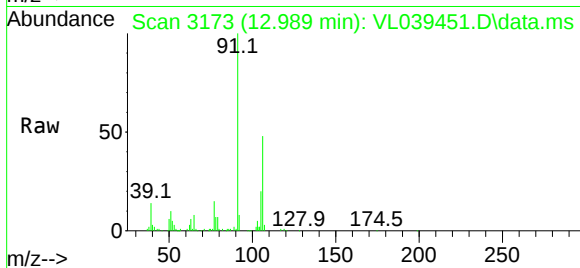
106 0.0 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#60

o-Xylene

Concen: 0.496 ppbv m

RT: 13.709 min Scan# 3397

Delta R.T. 0.042 min

Lab File: VL039451.D

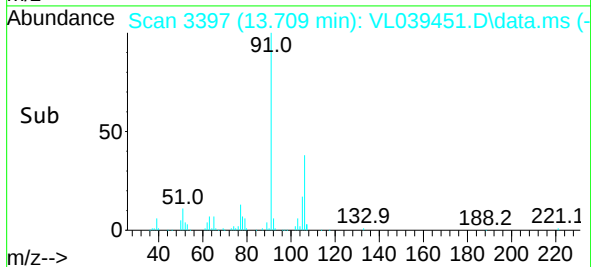
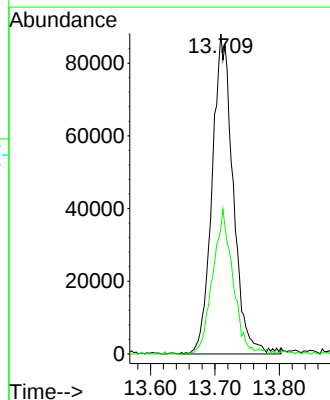
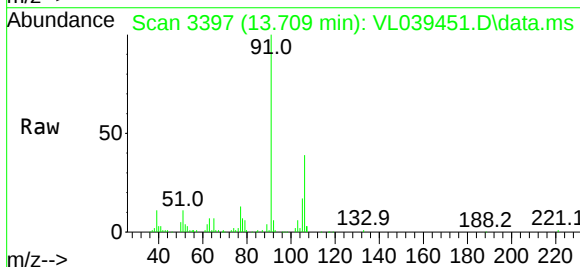
Acq: 12 Jul 2022 16:36

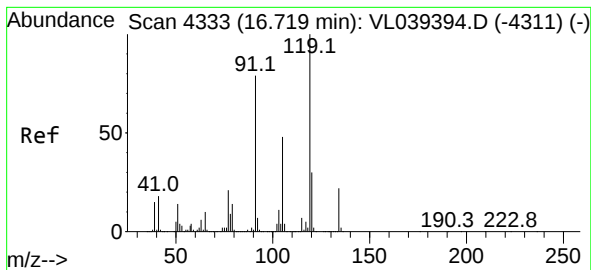
Tgt Ion: 91 Resp: 200004

Ion Ratio Lower Upper

91 100

106 43.5 22.4 67.3





#65

tert-Butylbenzene

Concen: 0.112 ppbv

RT: 16.780 min Scan# 41

Delta R.T. 0.061 min

Lab File: VL039451.D

Acq: 12 Jul 2022 16:36

Instrument :

MSVOA_L

ClientSampleId :

SG-1

Tgt Ion:119 Resp: 63780

Ion Ratio Lower Upper

119 100

91 112.9 63.4 95.2

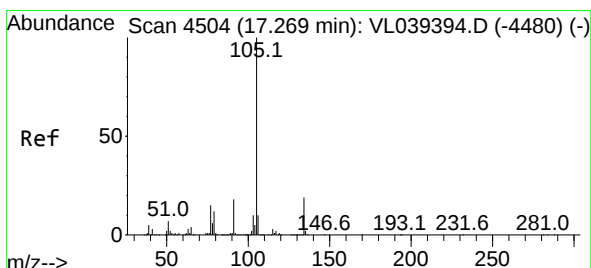
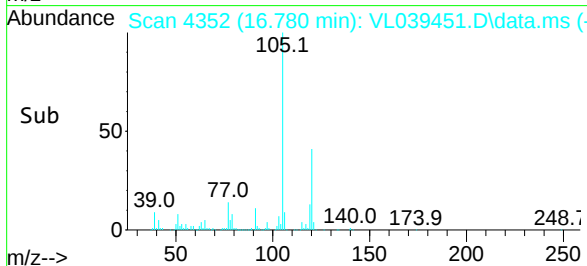
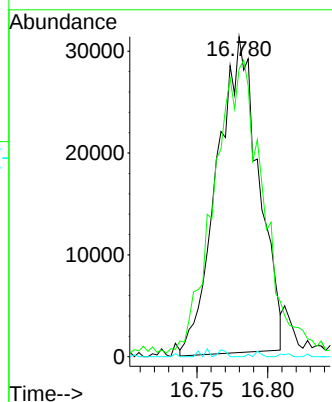
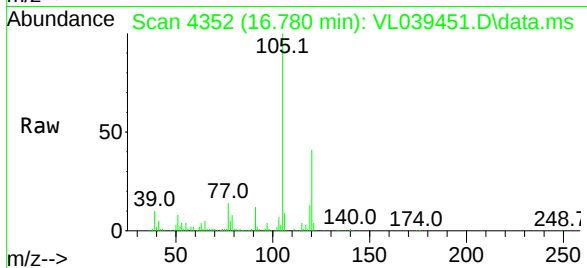
134 0.0 15.9 23.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#67

sec-Butylbenzene

Concen: 0.116 ppbv

RT: 17.619 min Scan# 4613

Delta R.T. 0.350 min

Lab File: VL039451.D

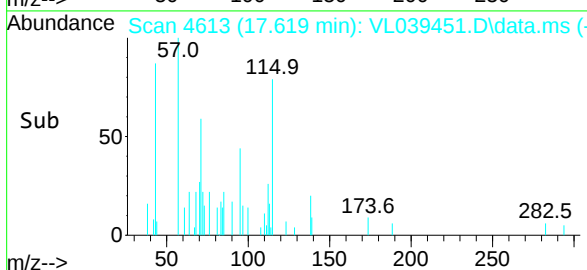
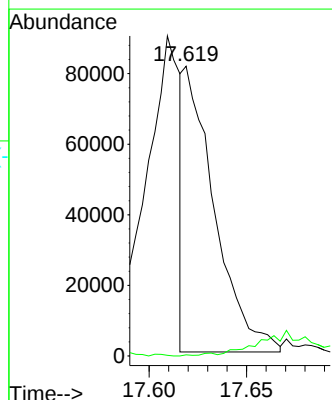
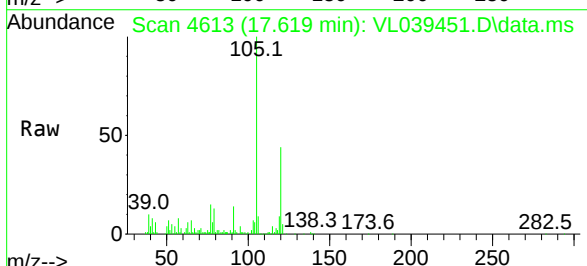
Acq: 12 Jul 2022 16:36

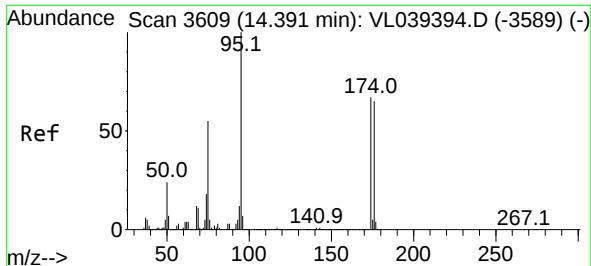
Tgt Ion:105 Resp: 88904

Ion Ratio Lower Upper

105 100

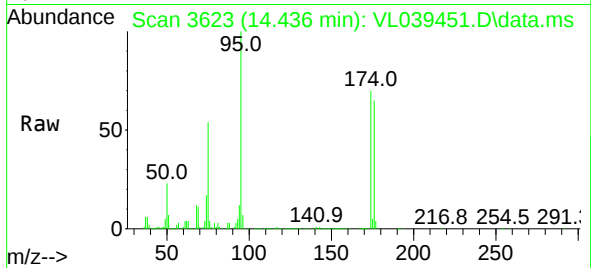
134 16.2 14.8 22.2





#68
1-Bromo-4-Fluorobenzene
Concen: 10.293 ppbv
RT: 14.436 min Scan# 30
Delta R.T. 0.045 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36

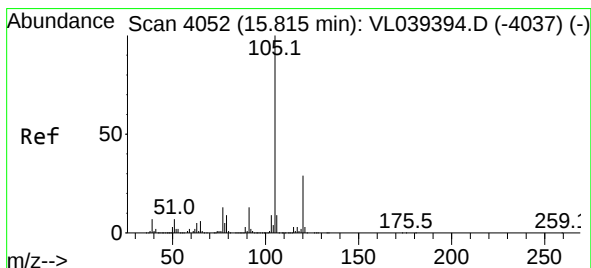
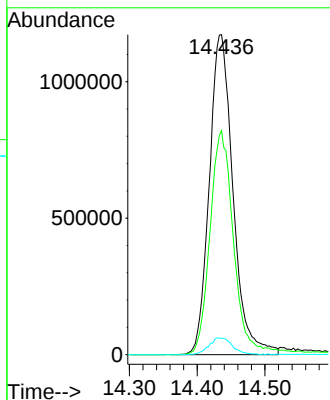
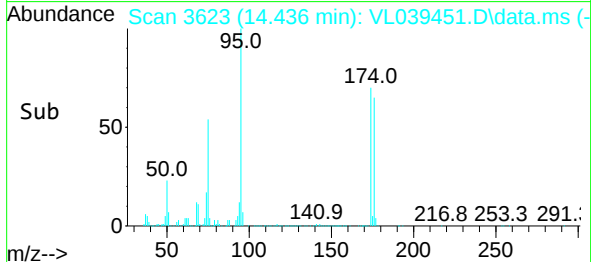
Instrument :
MSVOA_L
ClientSampleId :
SG-1



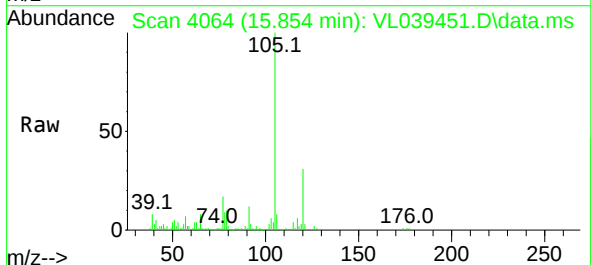
Tgt Ion: 95 Resp: 285418
Ion Ratio Lower Upper
95 100
174 71.7 55.9 83.9
175 5.3 4.2 6.4

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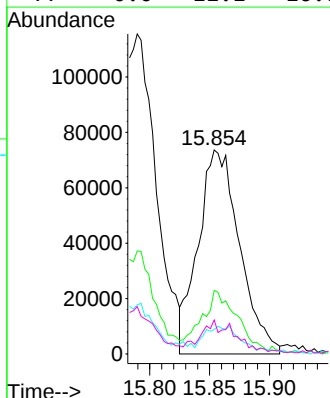
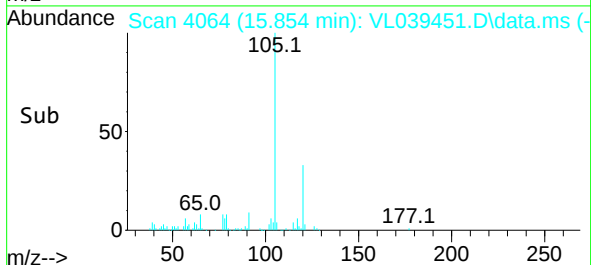
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

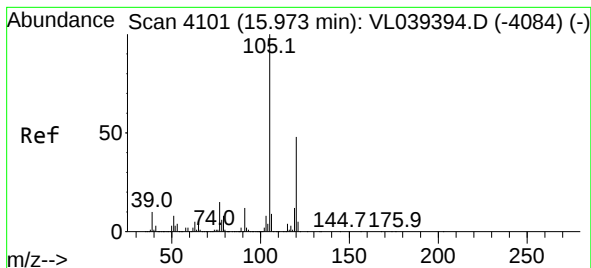


#72
4-Ethyltoluene
Concen: 0.375 ppbv m
RT: 15.854 min Scan# 4064
Delta R.T. 0.039 min
Lab File: VL039451.D
Acq: 12 Jul 2022 16:36



Tgt Ion:105 Resp: 177446
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.2#
91 12.4 10.2 15.4
77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.352 ppbv

RT: 16.015 min Scan# 4114

Delta R.T. 0.042 min

Lab File: VL039451.D

Acq: 12 Jul 2022 16:36

Instrument :

MSVOA_L

ClientSampleId :

SG-1

Tgt Ion:105 Resp: 153174

Ion Ratio Lower Upper

105 100

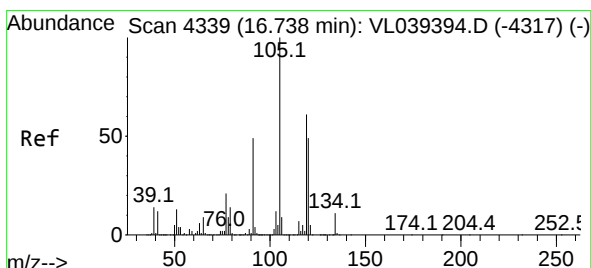
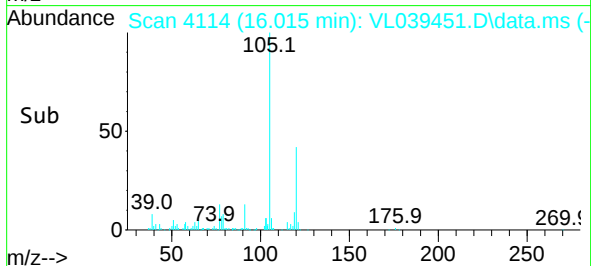
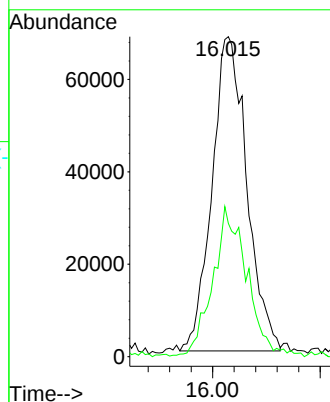
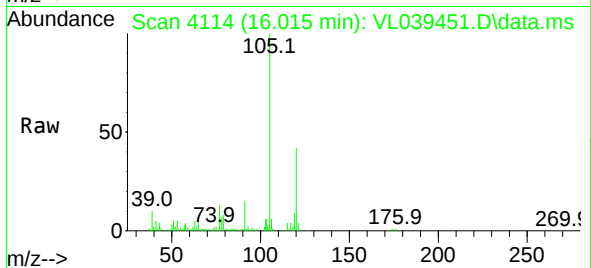
120 41.7 38.2 57.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#74

1,2,4-Trimethylbenzene

Concen: 1.203 ppbv

RT: 16.777 min Scan# 4351

Delta R.T. 0.038 min

Lab File: VL039451.D

Acq: 12 Jul 2022 16:36

Tgt Ion:105 Resp: 579183

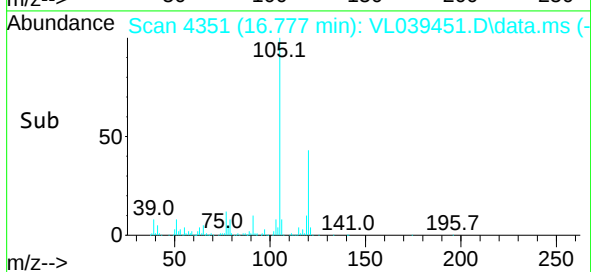
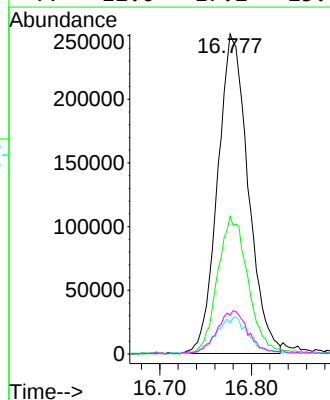
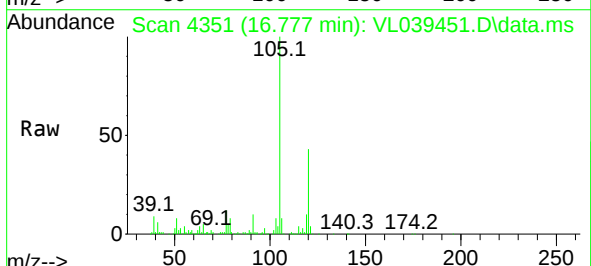
Ion Ratio Lower Upper

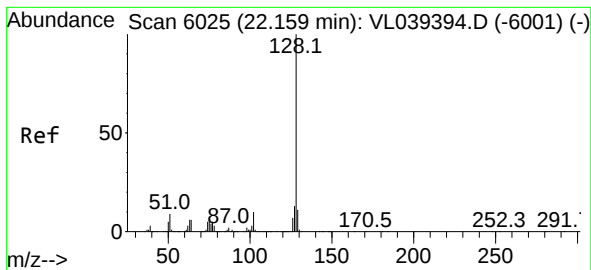
105 100

120 43.1 39.5 59.3

91 9.5 39.2 58.8#

77 12.0 17.2 25.8#





#79

Naphthalene

Concen: 0.520 ppbv

RT: 22.217 min Scan# 60

Delta R.T. 0.058 min

Lab File: VL039451.D

Acq: 12 Jul 2022 16:36

Instrument :

MSVOA_L

ClientSampleId :

SG-1

Tgt Ion:128 Resp: 17231

Ion Ratio Lower Upper

128 100

127 11.1 10.6 15.8

129 12.2 8.8 13.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022

