

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
 Data File : VL039457.D
 Acq On : 12 Jul 2022 20:57
 Operator : SY/AP
 Sample : N3660-08 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-11

Manual Integrations
 APPROVED

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

Quant Time: Jul 13 01:40:24 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 6

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	5.681	49	1493392	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.192	114	4184341	10.000	ppbv	0.04
55) Chlorobenzene-d5	12.102	117	3813861	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.433	95	2853843	10.087	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	3.063	85	47334	0.220	ppbv	92
3) Chlorodifluoromethane	3.002	51	38416	0.203	ppbv	92
9) Propene	3.031	41	41598m	0.486	ppbv	
10) Heptane	8.144	43	22416m	0.112	ppbv	
11) Trichlorofluoromethane	3.967	101	364867	1.520	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.504	101	34843	0.195	ppbv	91
13) Ethanol	3.613	45	233334m	47.004	ppbv	
15) Acetone	3.864	43	1180875	6.684	ppbv #	90
17) tert-Butyl alcohol	4.311	59	105275m	0.702	ppbv	
19) Isopropyl Alcohol	3.983	45	45996m	0.488	ppbv	
20) Methylene Chloride	4.359	84	168599	2.394	ppbv	97
26) Hexane	5.706	57	269792	1.848	ppbv #	40
27) Carbon Disulfide	4.571	76	169972	0.964	ppbv #	92
29) Chloroform	5.771	83	101734	0.401	ppbv	99
32) 1,1,1-Trichloroethane	6.530	97	11801m	0.047	ppbv	
34) 2-Butanone	5.263	43	142118	0.675	ppbv	91
38) Trichloroethene	7.848	130	44748m	0.255	ppbv	
52) Tetrachloroethene	11.240	164	317546	2.436	ppbv	93
53) Toluene	9.822	91	313741	0.840	ppbv	99
58) Ethyl Benzene	12.725	91	119825m	0.243	ppbv	
59) m/p-Xylene	12.983	91	420780m	0.969	ppbv	
60) o-Xylene	13.709	91	222972	0.542	ppbv	97
65) tert-Butylbenzene	16.777	119	103918	0.180	ppbv #	75
69) p-Isopropyltoluene	17.664	119	84558	0.128	ppbv	97
72) 4-Ethyltoluene	15.854	105	173989	0.360	ppbv	99
73) 1,3,5-Trimethylbenzene	16.011	105	288048	0.649	ppbv	92
74) 1,2,4-Trimethylbenzene	16.773	105	837274	1.705	ppbv #	70
79) Naphthalene	22.217	128	89134m	0.264	ppbv	

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

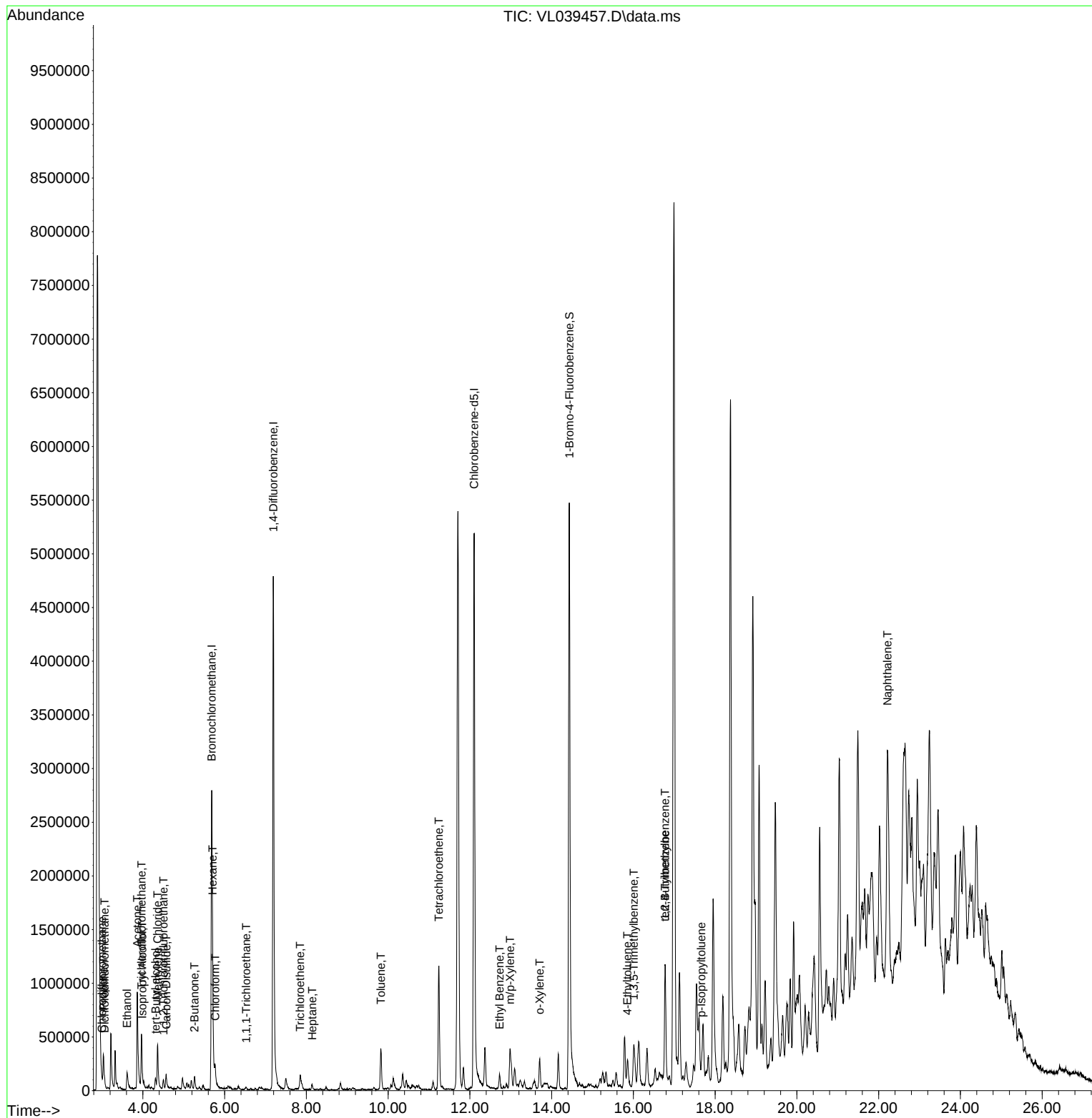
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
Data File : VL039457.D
Acq On : 12 Jul 2022 20:57
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Sample : N3660-08 2X
Misc : 400mL/MSVOA_L
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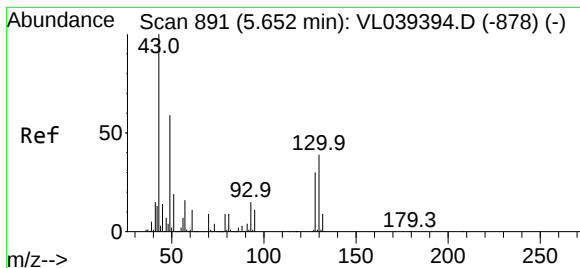
Instrument :
MSVOA_L
ClientSampleId :
SG-11

Quant Time: Jul 13 01:40:24 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

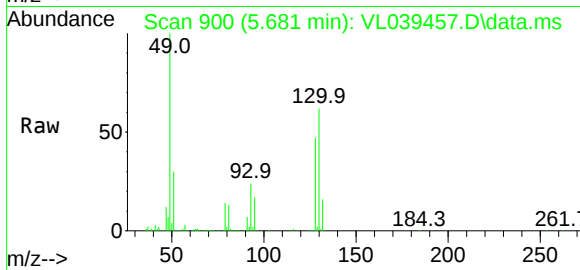
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.681 min Scan# 90
Delta R.T. 0.029 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

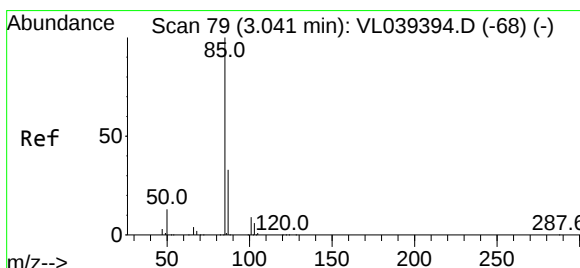
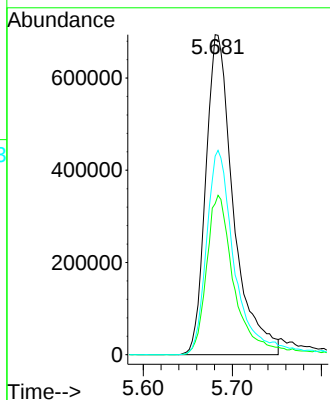
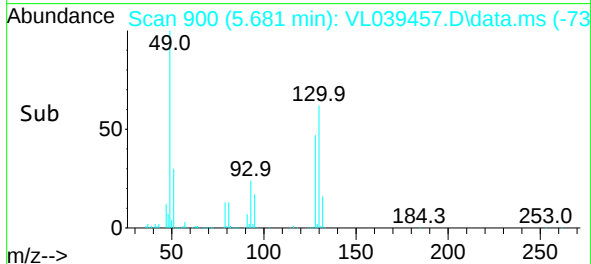
Instrument :
MSVOA_L
ClientSampleId :
SG-11



Tgt Ion: 49 Resp: 1493392
Ion Ratio Lower Upper
49 100
128 51.8 26.7 80.0
130 67.7 34.3 102.8

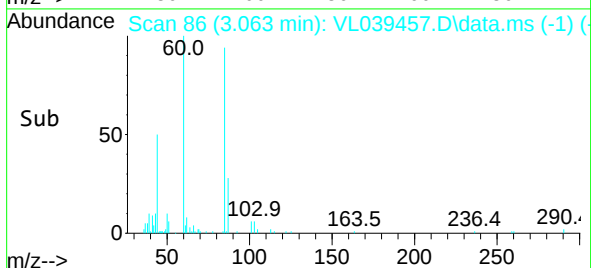
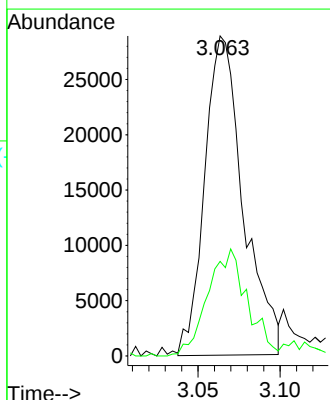
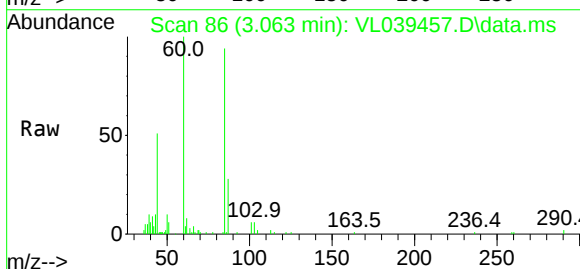
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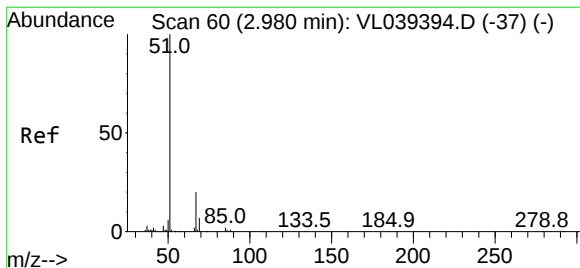
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#2
Dichlorodifluoromethane
Concen: 0.220 ppbv
RT: 3.063 min Scan# 86
Delta R.T. 0.023 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

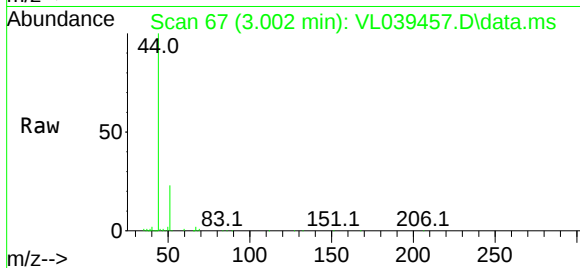
Tgt Ion: 85 Resp: 47334
Ion Ratio Lower Upper
85 100
87 29.1 26.7 40.1





#3
Chlorodifluoromethane
Concen: 0.203 ppbv
RT: 3.002 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

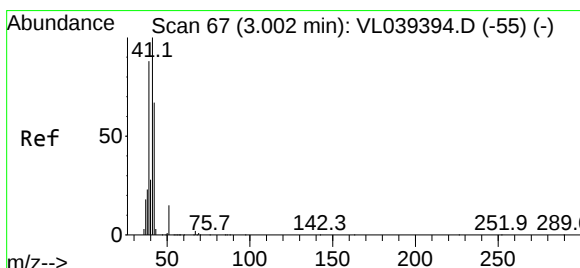
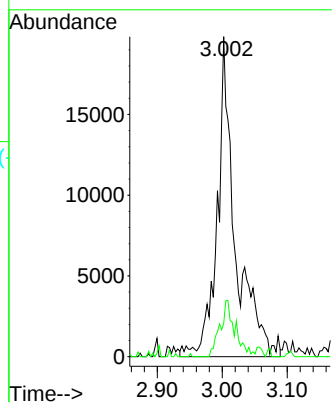
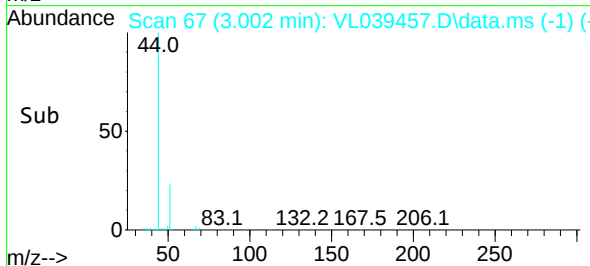
Instrument :
MSVOA_L
ClientSampleId :
SG-11



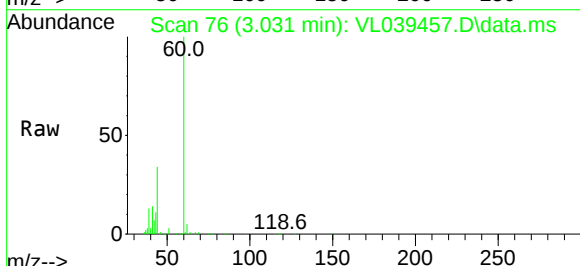
Tgt Ion: 51 Resp: 38410
Ion Ratio Lower Upper
51 100
67 16.0 15.7 23.5

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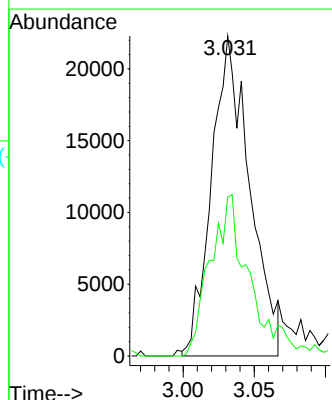
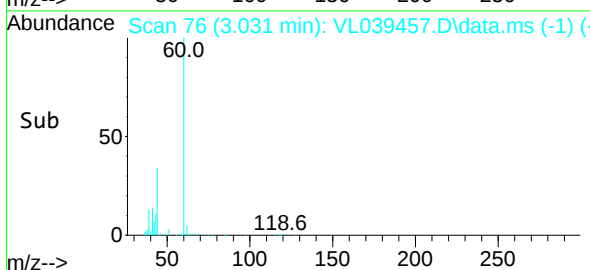
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

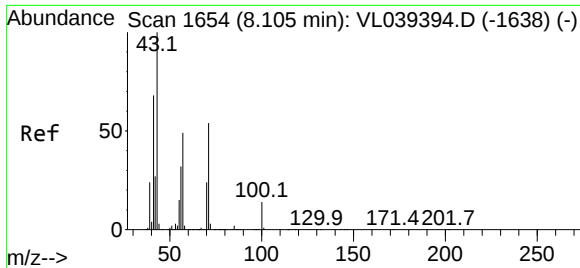


#9
Propene
Concen: 0.486 ppbv m
RT: 3.031 min Scan# 76
Delta R.T. 0.029 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57



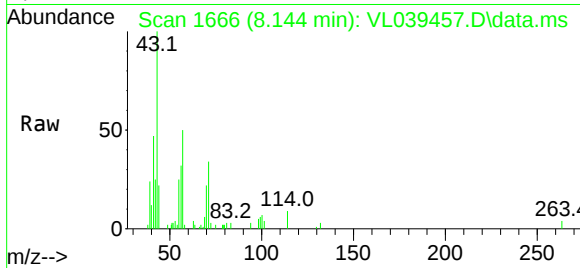
Tgt Ion: 41 Resp: 41598
Ion Ratio Lower Upper
41 100
42 52.4 55.2 82.8#





#10
Heptane
Concen: 0.112 ppbv m
RT: 8.144 min Scan# 1
Delta R.T. 0.039 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

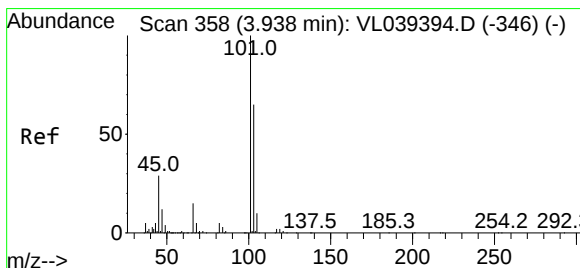
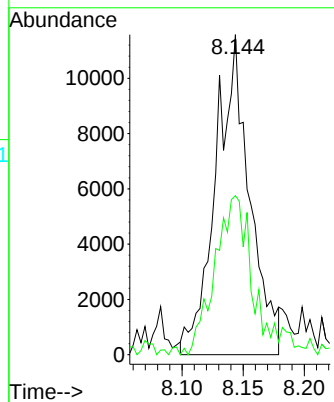
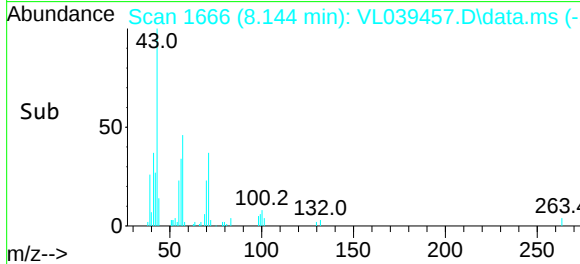
Instrument :
MSVOA_L
ClientSampleId :
SG-11



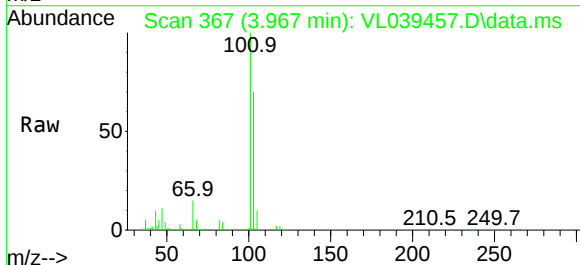
Tgt Ion: 43 Resp: 22410
Ion Ratio Lower Upper
43 100
57 58.5 40.5 60.7

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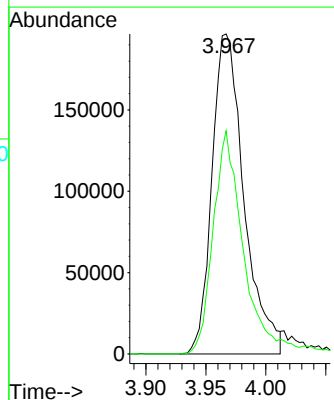
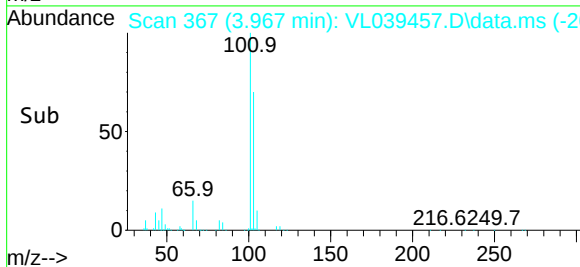
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

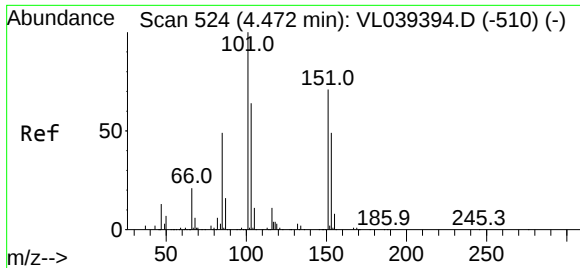


#11
Trichlorofluoromethane
Concen: 1.520 ppbv
RT: 3.967 min Scan# 367
Delta R.T. 0.029 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57



Tgt Ion:101 Resp: 364867
Ion Ratio Lower Upper
101 100
103 69.8 51.8 77.8





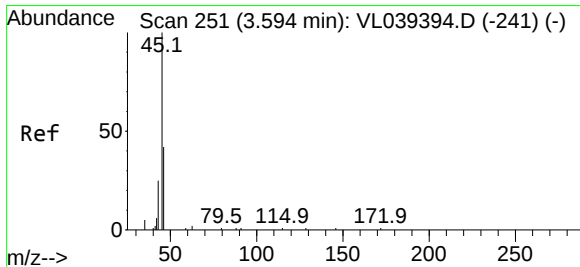
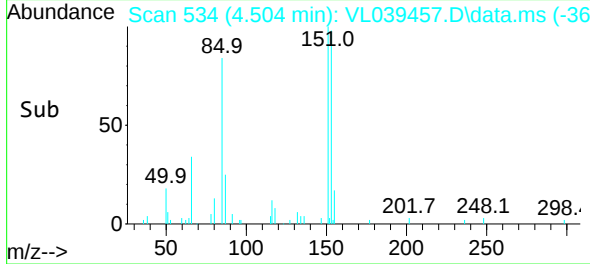
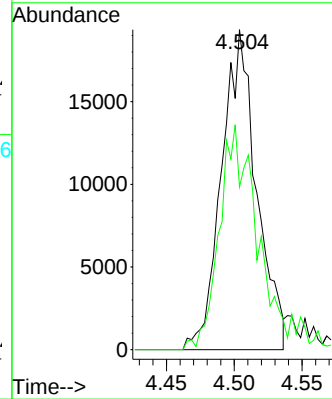
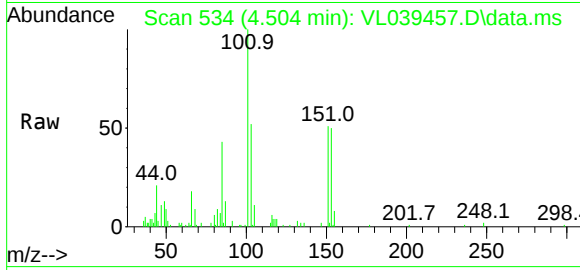
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.195 ppbv
RT: 4.504 min Scan# 51
Delta R.T. 0.032 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

Instrument :
MSVOA_L
ClientSampleId :
SG-11

Tgt Ion:101 Resp: 3484
Ion Ratio Lower Upper
101 100
151 81.4 58.9 88.3

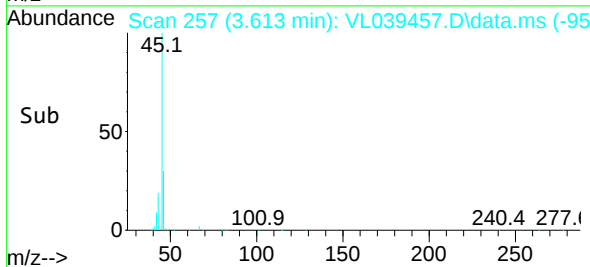
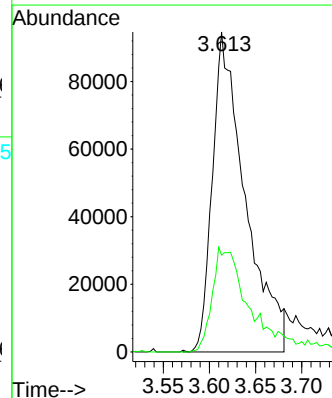
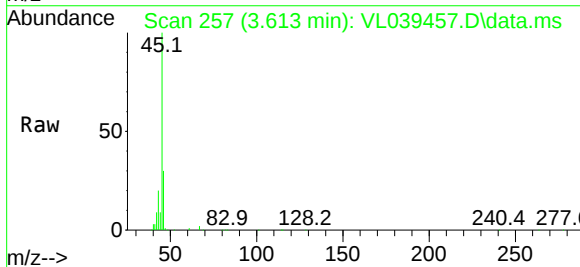
Manual Integrations
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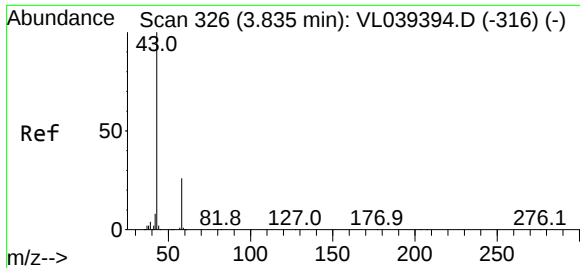
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#13
Ethanol
Concen: 47.004 ppbv m
RT: 3.613 min Scan# 257
Delta R.T. 0.019 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

Tgt Ion: 45 Resp: 233334
Ion Ratio Lower Upper
45 100
46 39.9 22.8 91.2





#15

Acetone

Concen: 6.684 ppbv

RT: 3.864 min Scan# 31

Delta R.T. 0.029 min

Lab File: VL039457.D

Acq: 12 Jul 2022 20:57

Instrument :

MSVOA_L

ClientSampleId :

SG-11

Tgt Ion: 43 Resp: 118087

Ion Ratio Lower Upper

43 100

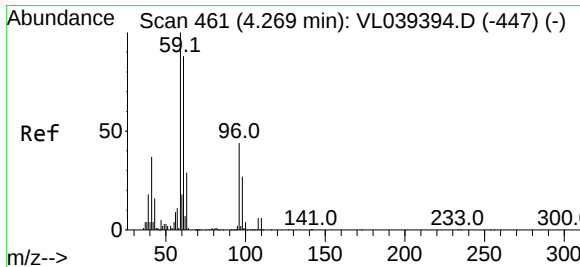
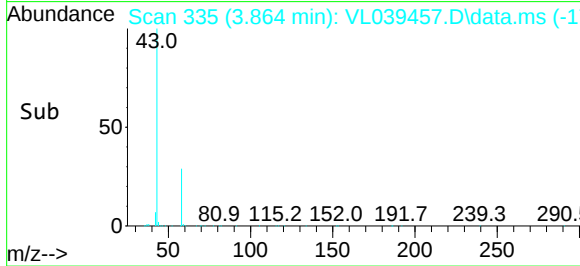
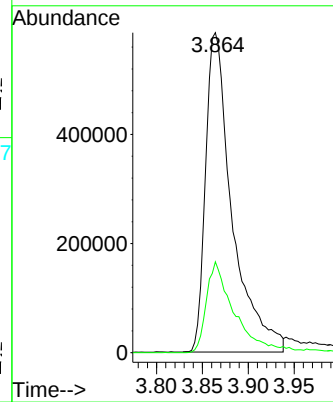
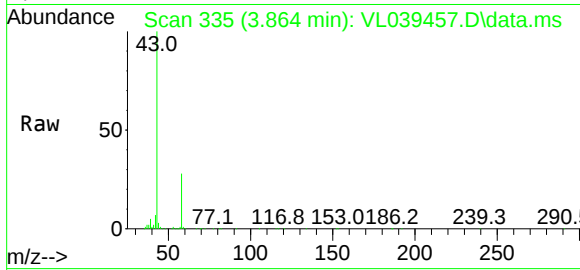
58 31.6 21.0 31.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#17

tert-Butyl alcohol

Concen: 0.702 ppbv m

RT: 4.311 min Scan# 474

Delta R.T. 0.042 min

Lab File: VL039457.D

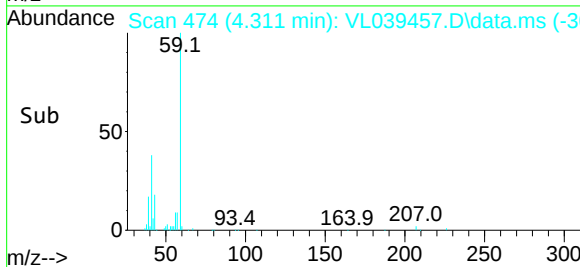
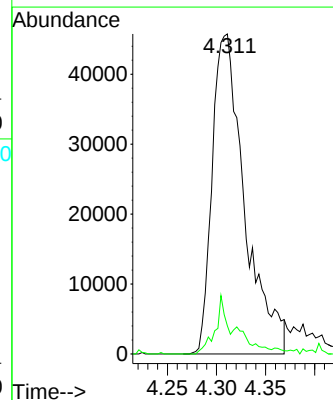
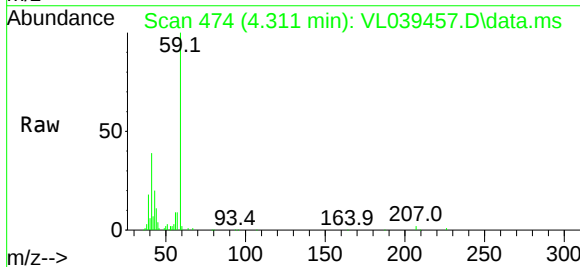
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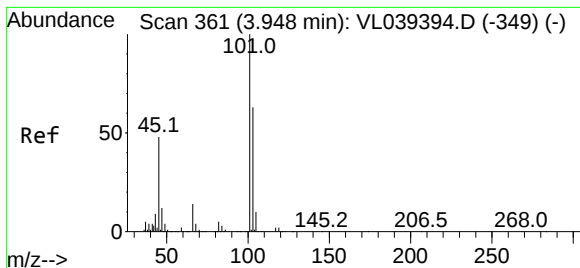
Tgt Ion: 59 Resp: 105275

Ion Ratio Lower Upper

59 100

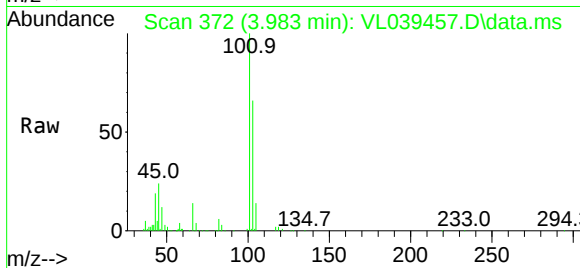
57 11.7 8.7 13.1





#19
Isopropyl Alcohol
Concen: 0.488 ppbv m
RT: 3.983 min Scan# 31
Delta R.T. 0.035 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

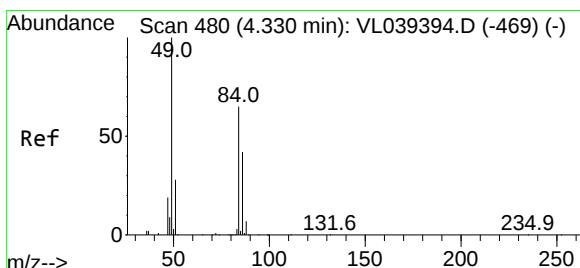
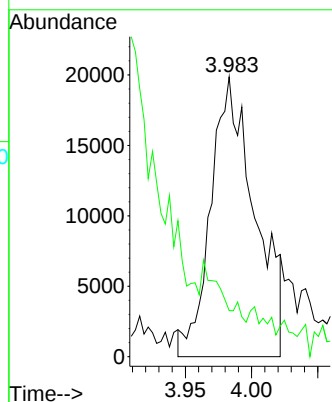
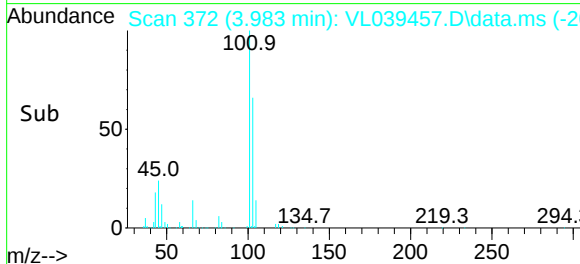
Instrument :
MSVOA_L
ClientSampleId :
SG-11



Tgt Ion: 45 Resp: 45990
Ion Ratio Lower Upper
45 100
58 0.0 3.2 4.8

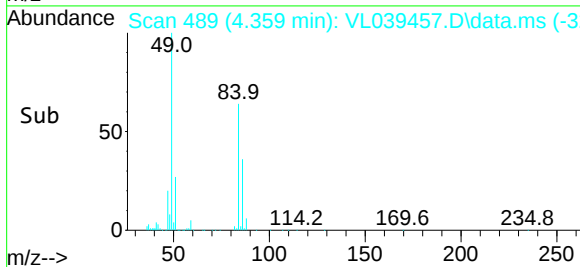
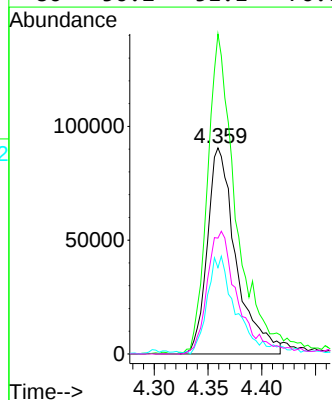
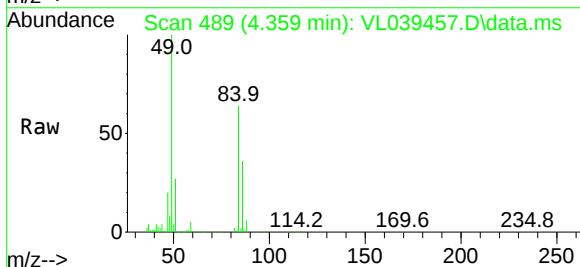
Manual Integrations
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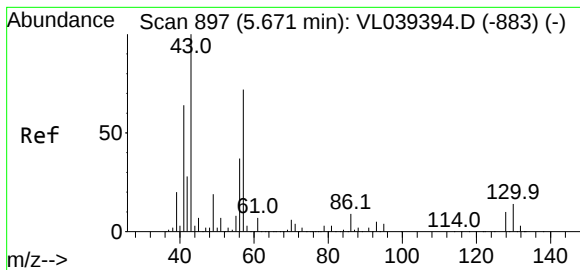
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#20
Methylene Chloride
Concen: 2.394 ppbv
RT: 4.359 min Scan# 489
Delta R.T. 0.029 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

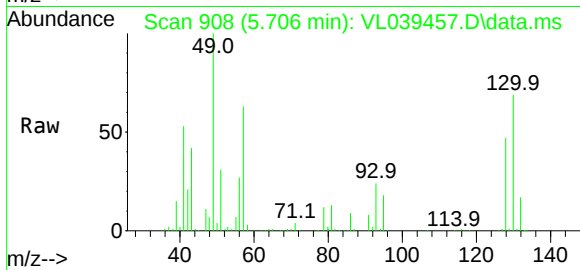
Tgt Ion: 84 Resp: 168599
Ion Ratio Lower Upper
84 100
49 154.4 123.1 184.7
51 41.1 34.4 51.6
86 56.2 51.1 76.7





#26
Hexane
Concen: 1.848 ppbv
RT: 5.706 min Scan# 90
Delta R.T. 0.035 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

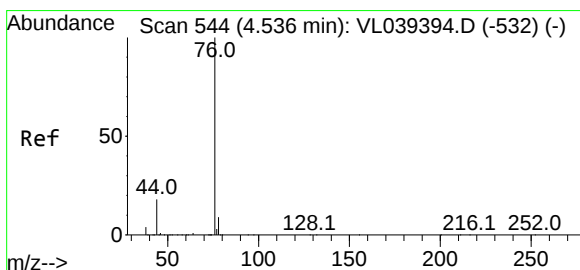
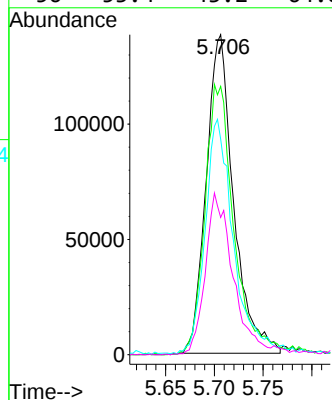
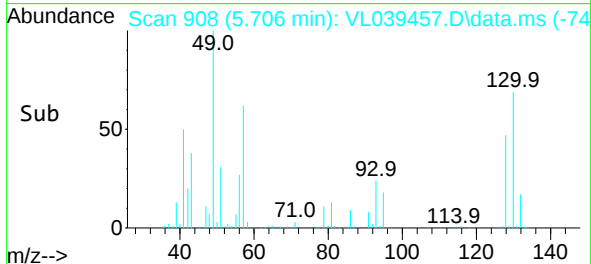
Instrument :
MSVOA_L
ClientSampleId :
SG-11



Tgt Ion: 57 Resp: 269792
Ion Ratio Lower Upper
57 100
41 92.5 76.9 115.3
43 76.8 191.0 286.6
56 53.4 43.2 64.8

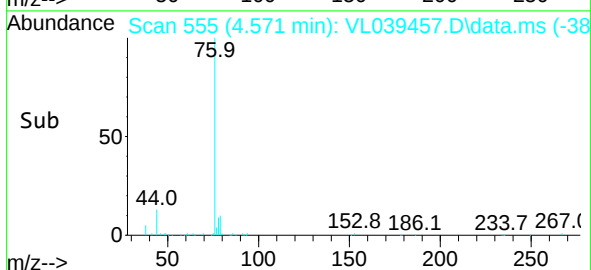
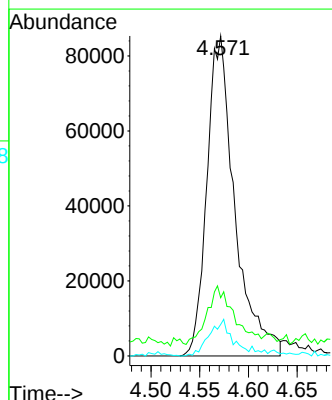
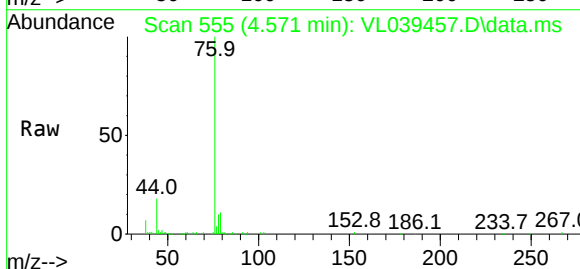
Manual Integrations
APPROVED

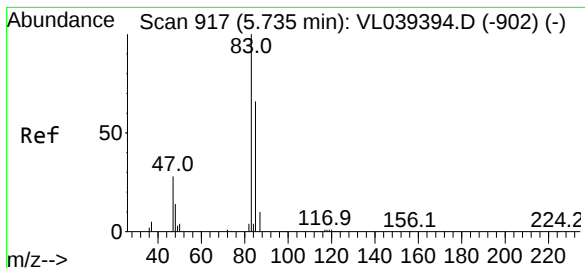
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#27
Carbon Disulfide
Concen: 0.964 ppbv
RT: 4.571 min Scan# 555
Delta R.T. 0.035 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

Tgt Ion: 76 Resp: 169972
Ion Ratio Lower Upper
76 100
44 22.1 14.6 21.8#
78 11.7 7.8 11.6#





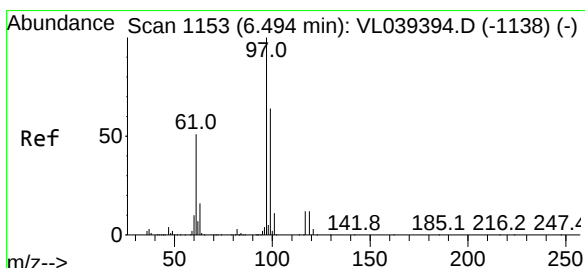
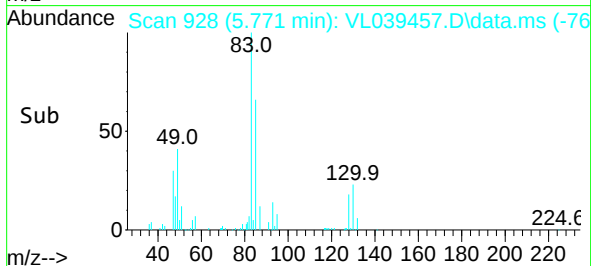
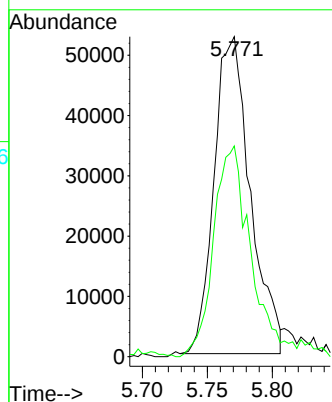
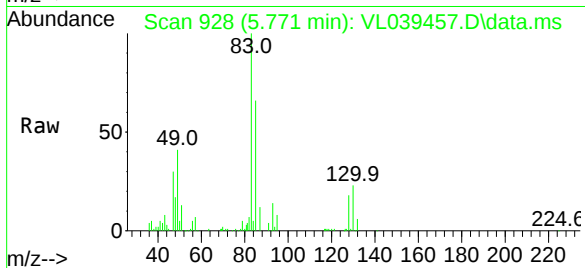
#29
Chloroform
Concen: 0.401 ppbv
RT: 5.771 min Scan# 917
Delta R.T. 0.035 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

Instrument :
MSVOA_L
ClientSampleId :
SG-11

Tgt Ion: 83 Resp: 101734
Ion Ratio Lower Upper
83 100
85 66.5 52.8 79.2

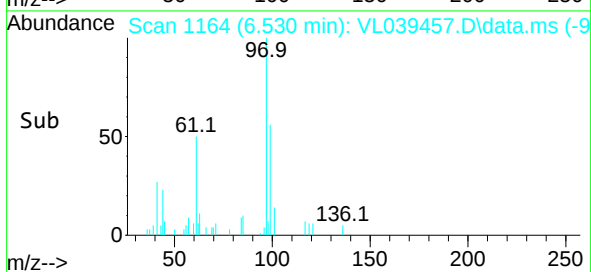
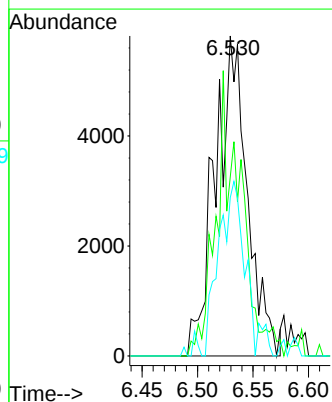
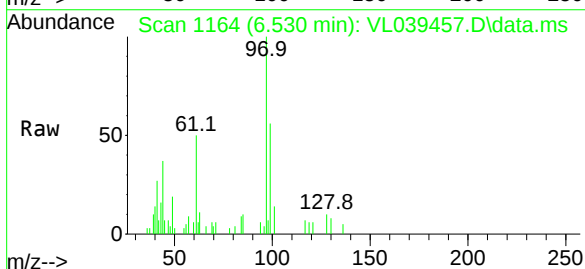
Manual Integrations
APPROVED

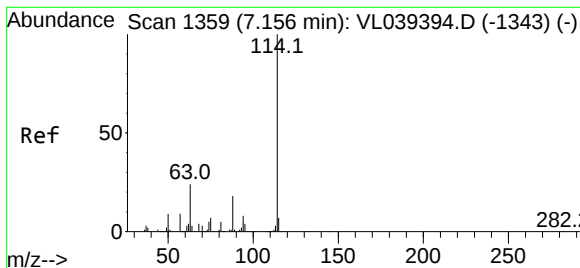
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#32
1,1,1-Trichloroethane
Concen: 0.047 ppbv m
RT: 6.530 min Scan# 1164
Delta R.T. 0.035 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

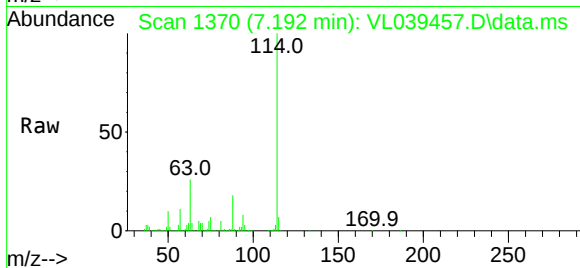
Tgt Ion: 97 Resp: 11801
Ion Ratio Lower Upper
97 100
99 0.0 52.3 78.5#
61 49.0 40.9 61.3





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.192 min Scan# 1114
Delta R.T. 0.035 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

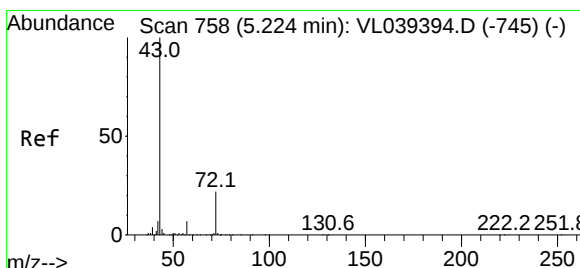
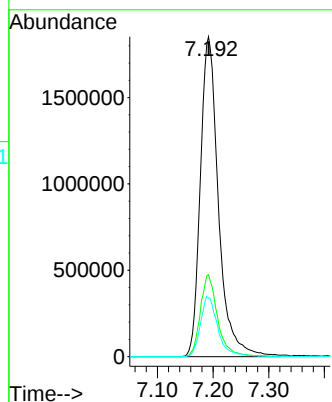
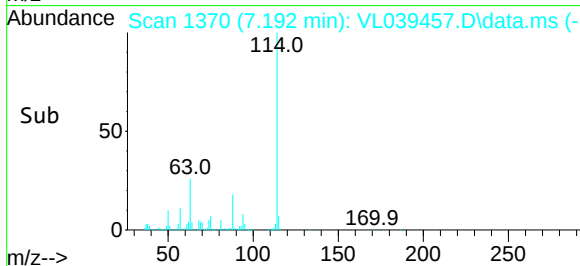
Instrument :
MSVOA_L
ClientSampleId :
SG-11



Tgt Ion:114 Resp: 418434
Ion Ratio Lower Upper
114 100
63 24.6 20.2 30.4
88 18.3 14.5 21.7

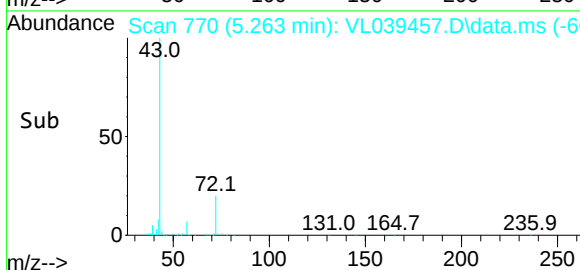
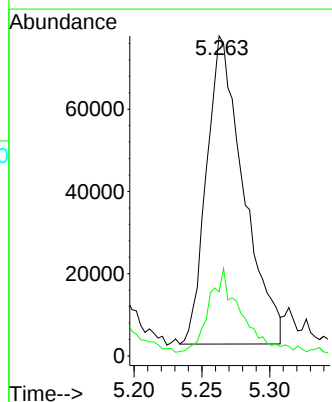
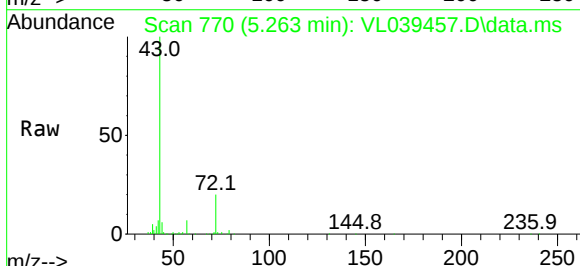
Manual Integrations
APPROVED

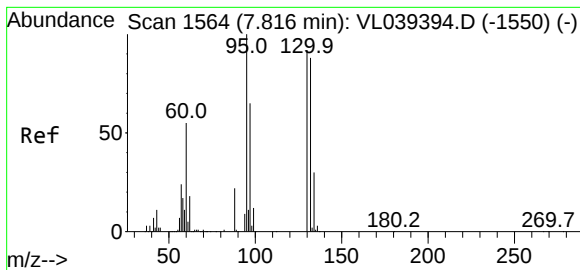
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#34
2-Butanone
Concen: 0.675 ppbv
RT: 5.263 min Scan# 770
Delta R.T. 0.039 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

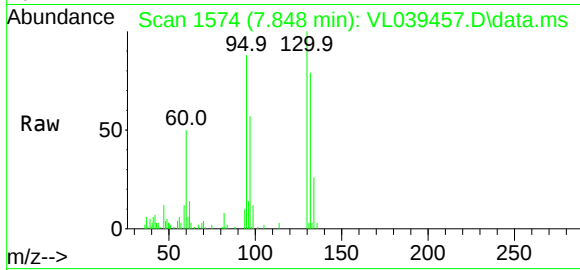
Tgt Ion: 43 Resp: 142118
Ion Ratio Lower Upper
43 100
72 26.7 17.9 26.9





#38
Trichloroethene
Concen: 0.255 ppbv m
RT: 7.848 min Scan# 1
Delta R.T. 0.032 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

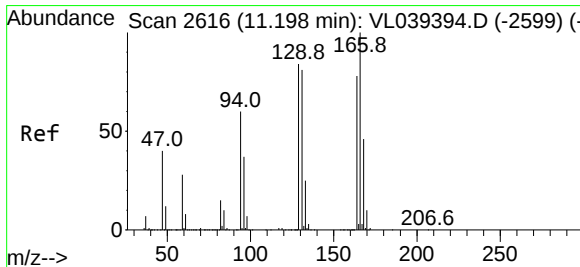
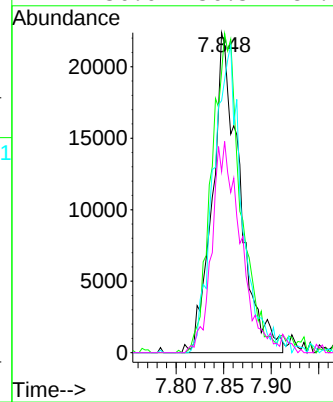
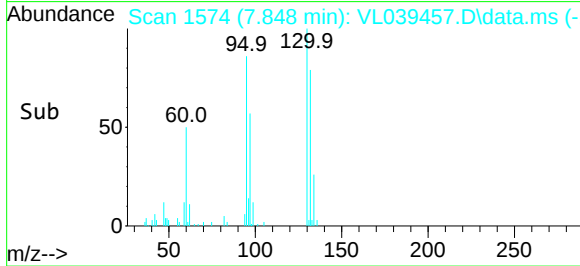
Instrument :
MSVOA_L
ClientSampleId :
SG-11



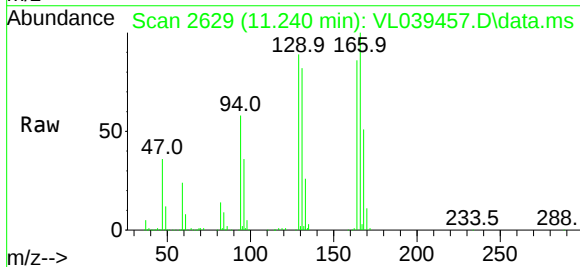
Tgt Ion:130	Resp:	4474
Ion Ratio	Lower	Upper
130	100	
95	87.7	87.3 130.9
132	78.8	76.7 115.1
97	56.6	56.5 84.7

Manual Integrations
APPROVED

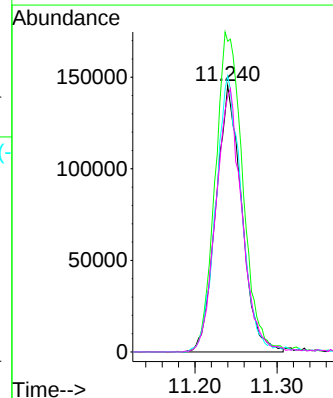
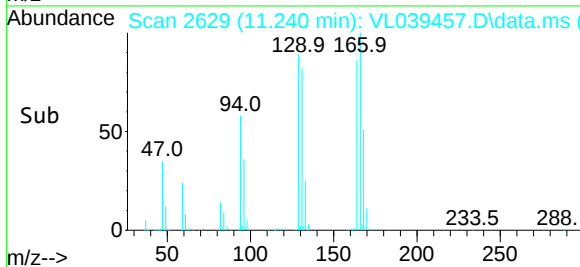
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

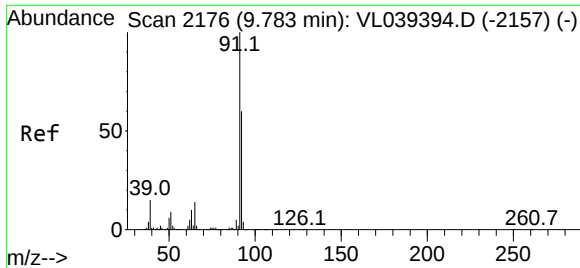


#52
Tetrachloroethene
Concen: 2.436 ppbv
RT: 11.240 min Scan# 2629
Delta R.T. 0.042 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57



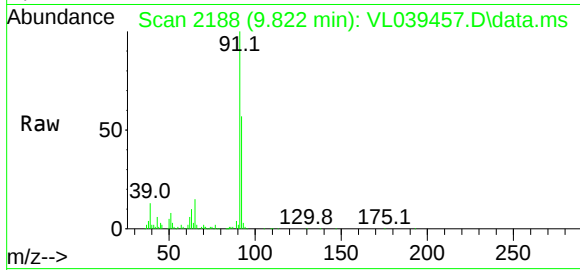
Tgt Ion:164	Resp:	317546
Ion Ratio	Lower	Upper
164	100	
166	116.6	102.2 153.2
129	103.6	85.8 128.8
131	96.0	83.3 124.9





#53
Toluene
Concen: 0.840 ppbv
RT: 9.822 min Scan# 2176
Delta R.T. 0.039 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

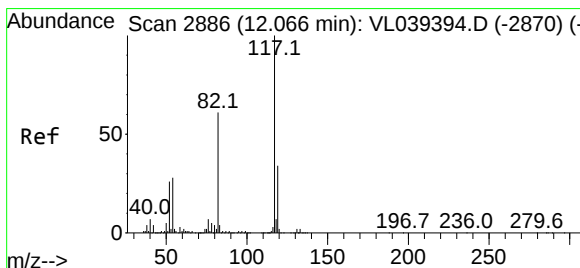
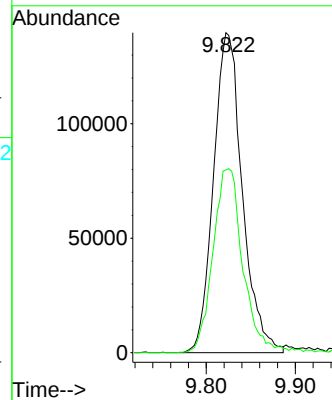
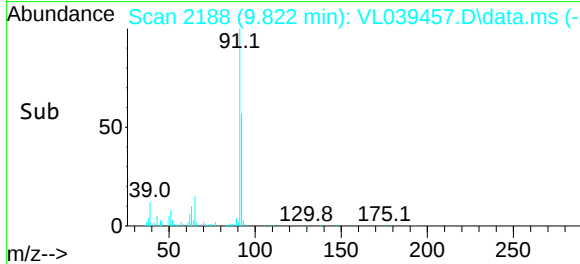
Instrument :
MSVOA_L
ClientSampleId :
SG-11



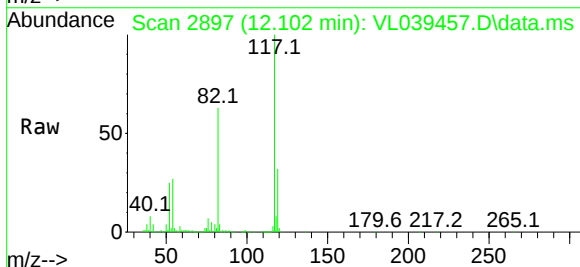
Tgt Ion: 91 Resp: 31374
Ion Ratio Lower Upper
91 100
92 59.8 48.2 72.2

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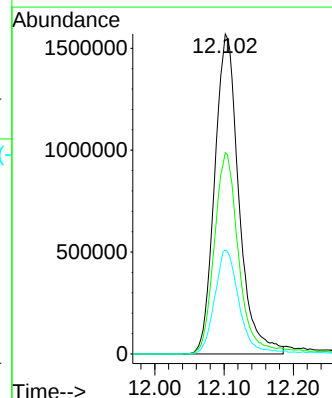
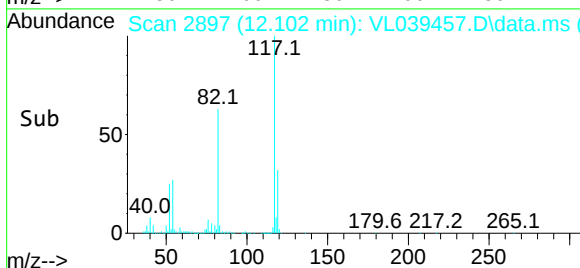
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

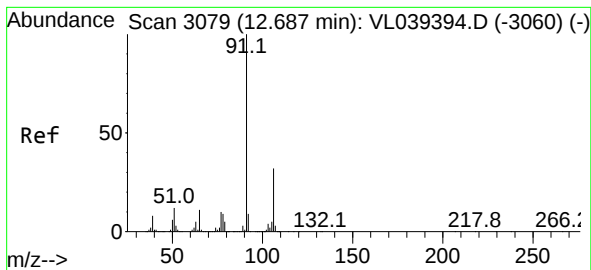


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.102 min Scan# 2897
Delta R.T. 0.035 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57



Tgt Ion:117 Resp: 3813861
Ion Ratio Lower Upper
117 100
82 65.1 50.8 76.2
119 33.9 24.1 36.1





#58

Ethyl Benzene

Concen: 0.243 ppbv m

RT: 12.725 min Scan# 3079

Delta R.T. 0.039 min

Lab File: VL039457.D

Acq: 12 Jul 2022 20:57

Instrument :

MSVOA_L

ClientSampleId :

SG-11

Tgt Ion: 91 Resp: 11982

Ion Ratio Lower Upper

91 100

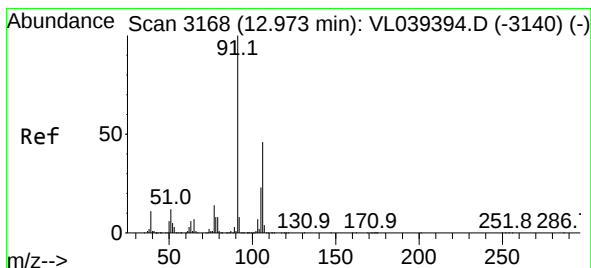
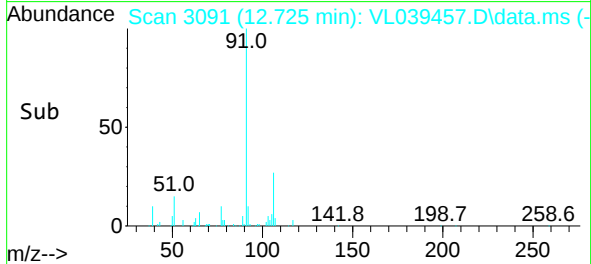
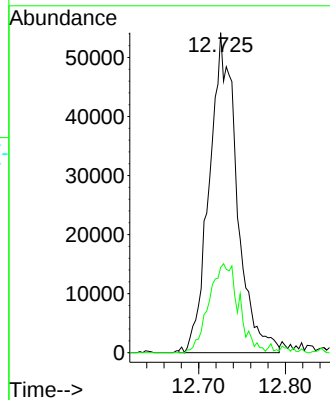
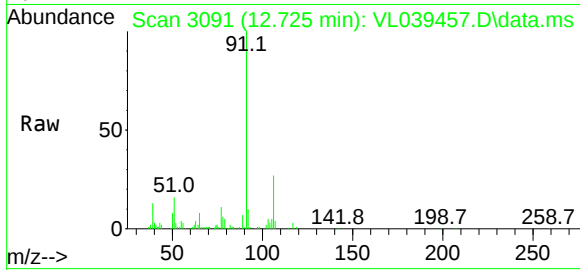
106 26.6 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#59

m/p-Xylene

Concen: 0.969 ppbv m

RT: 12.983 min Scan# 3171

Delta R.T. 0.010 min

Lab File: VL039457.D

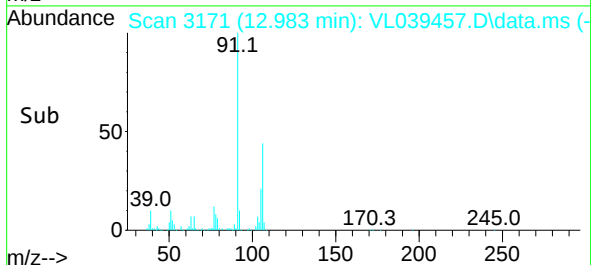
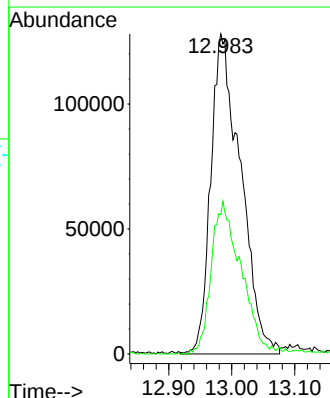
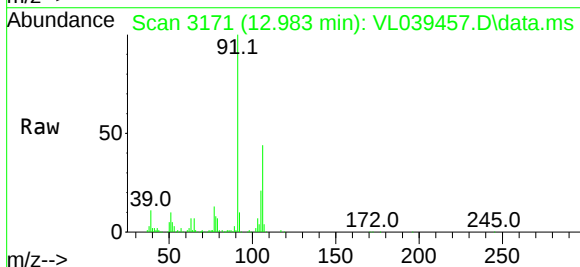
Acq: 12 Jul 2022 20:57

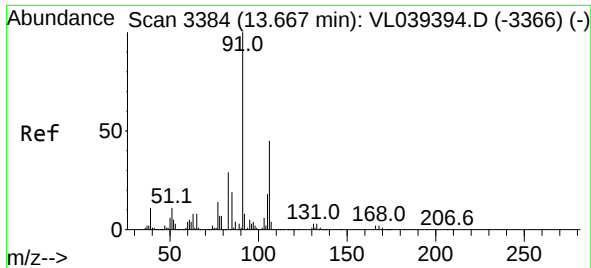
Tgt Ion: 91 Resp: 420780

Ion Ratio Lower Upper

91 100

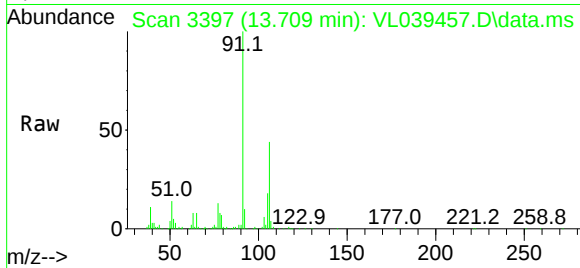
106 0.0 35.4 53.2#





#60
o-Xylene
Concen: 0.542 ppbv
RT: 13.709 min Scan# 31
Delta R.T. 0.042 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

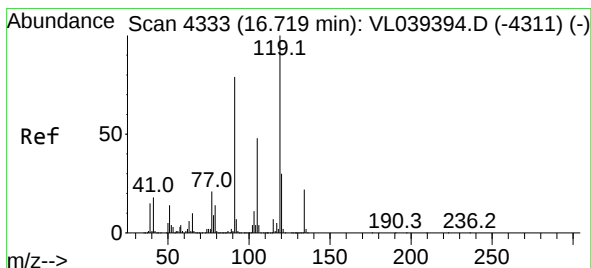
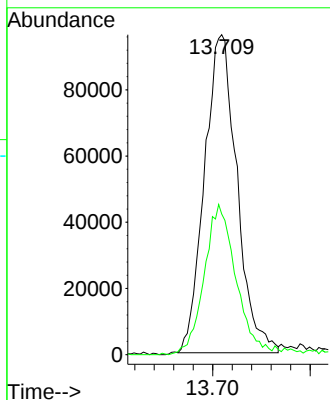
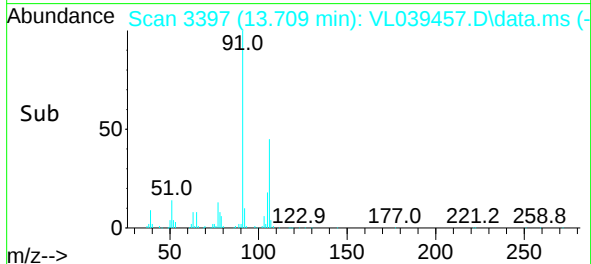
Instrument :
MSVOA_L
ClientSampleId :
SG-11



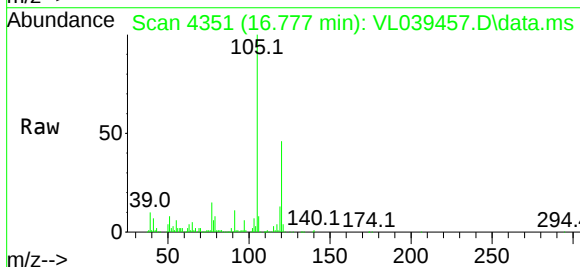
Tgt Ion: 91 Resp: 222972
Ion Ratio Lower Upper
91 100
106 46.8 22.4 67.3

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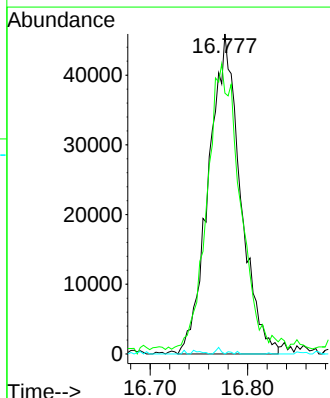
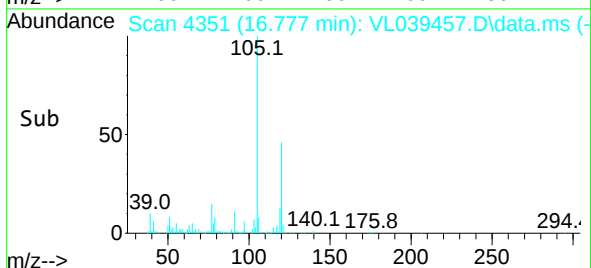
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

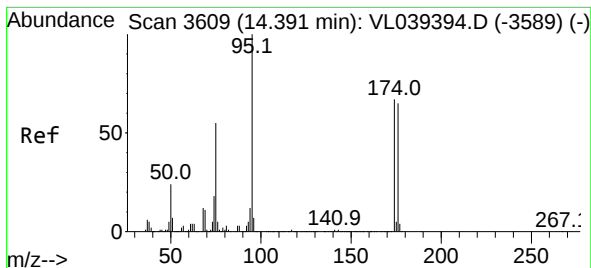


#65
tert-Butylbenzene
Concen: 0.180 ppbv
RT: 16.777 min Scan# 4351
Delta R.T. 0.058 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57



Tgt Ion:119 Resp: 103918
Ion Ratio Lower Upper
119 100
91 97.0 63.4 95.2#
134 0.0 15.9 23.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.087 ppbv

RT: 14.433 min Scan# 3609

Delta R.T. 0.042 min

Lab File: VL039457.D

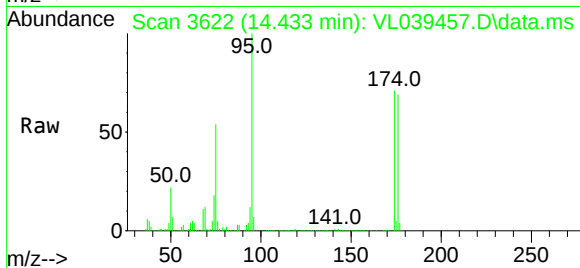
Acq: 12 Jul 2022 20:57

Instrument :

MSVOA_L

ClientSampleId :

SG-11



Tgt Ion: 95 Resp: 285384

Ion Ratio Lower Upper

95 100

174 74.9 55.9 83.9

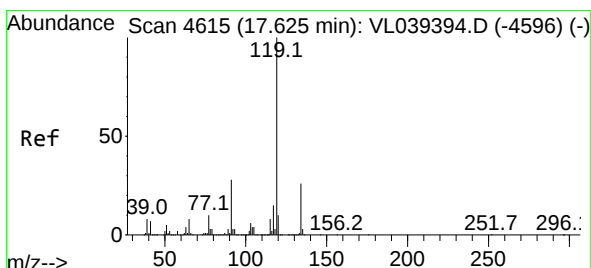
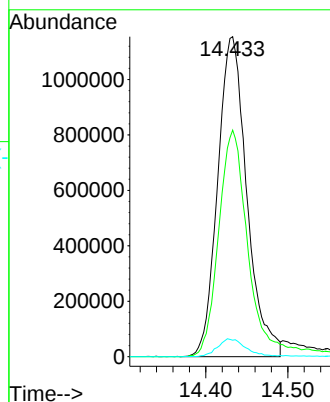
175 5.7 4.2 6.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022



#69

p-Isopropyltoluene

Concen: 0.128 ppbv

RT: 17.664 min Scan# 4627

Delta R.T. 0.039 min

Lab File: VL039457.D

Acq: 12 Jul 2022 20:57

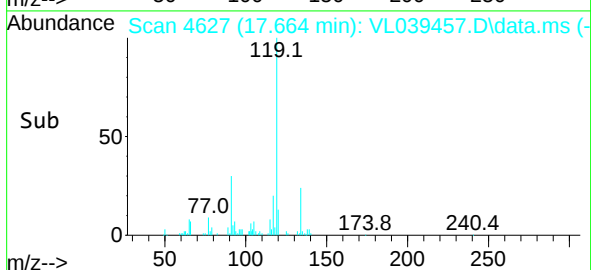
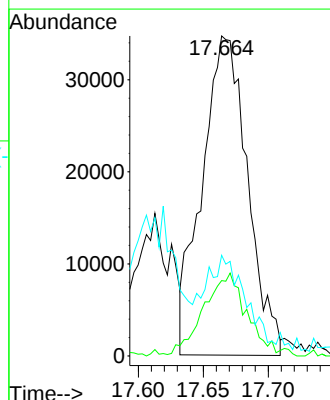
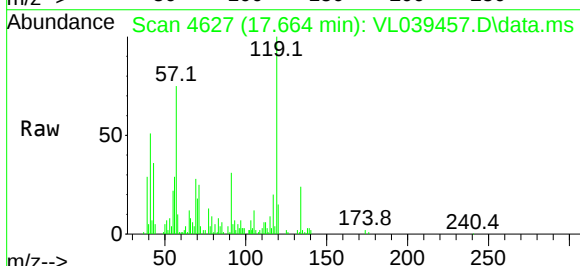
Tgt Ion:119 Resp: 84558

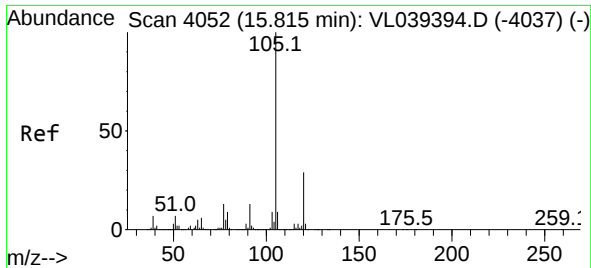
Ion Ratio Lower Upper

119 100

134 25.5 20.3 30.5

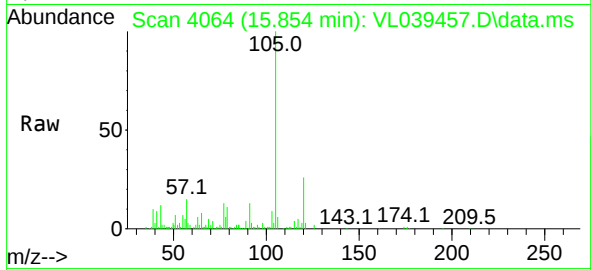
91 31.7 22.9 34.3





#72
4-Ethyltoluene
Concen: 0.360 ppbv
RT: 15.854 min Scan# 4052
Delta R.T. 0.039 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

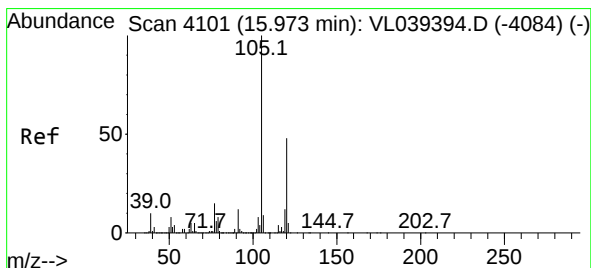
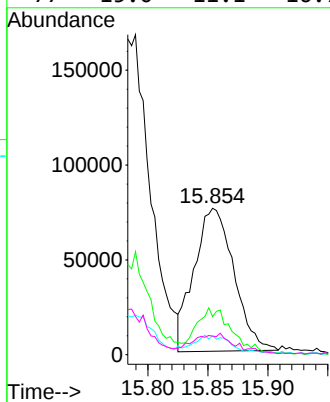
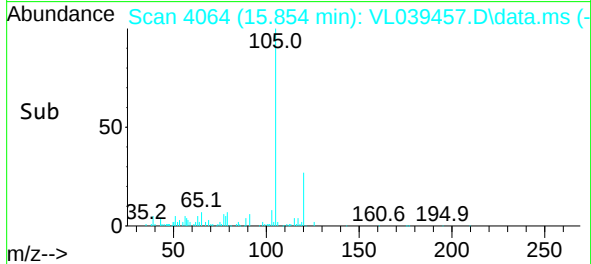
Instrument :
MSVOA_L
ClientSampleId :
SG-11



Tgt Ion:105 Resp: 173989
Ion Ratio Lower Upper
105 100
120 30.2 24.2 36.2
91 12.2 10.2 15.4
77 15.0 11.1 16.7

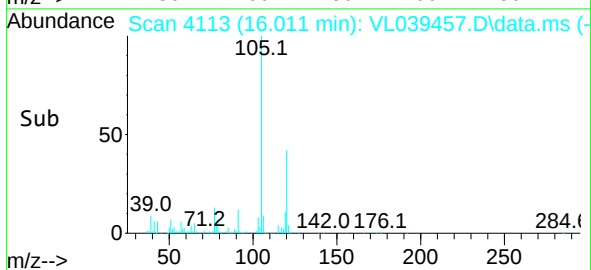
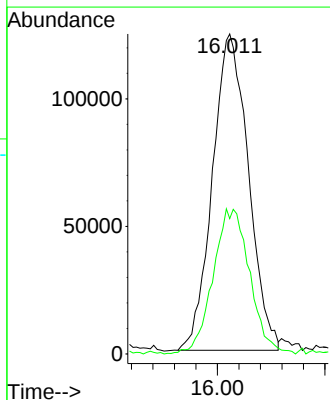
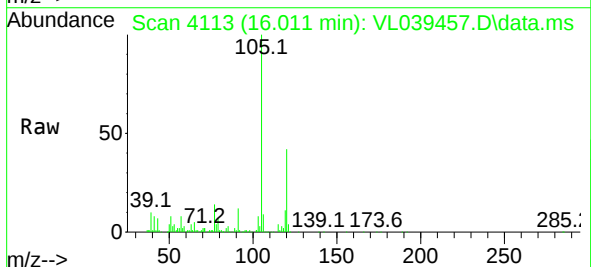
Manual Integrations
APPROVED

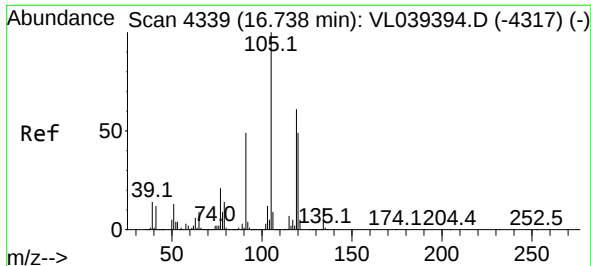
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#73
1,3,5-Trimethylbenzene
Concen: 0.649 ppbv
RT: 16.011 min Scan# 4113
Delta R.T. 0.039 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

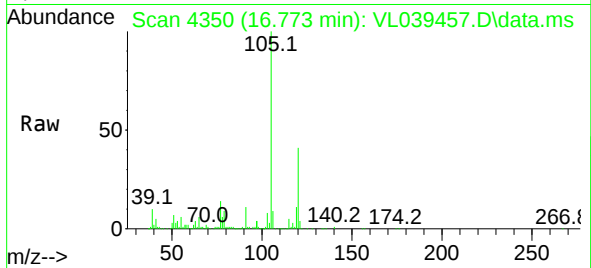
Tgt Ion:105 Resp: 288048
Ion Ratio Lower Upper
105 100
120 42.3 38.2 57.4





#74
1,2,4-Trimethylbenzene
Concen: 1.705 ppbv
RT: 16.773 min Scan# 41
Delta R.T. 0.035 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57

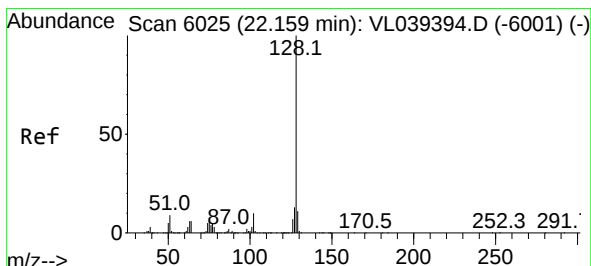
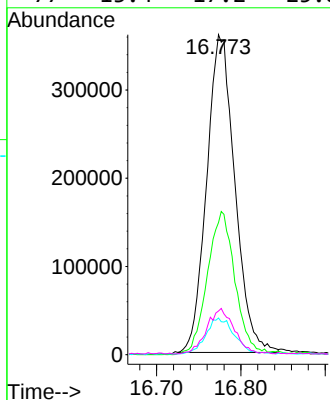
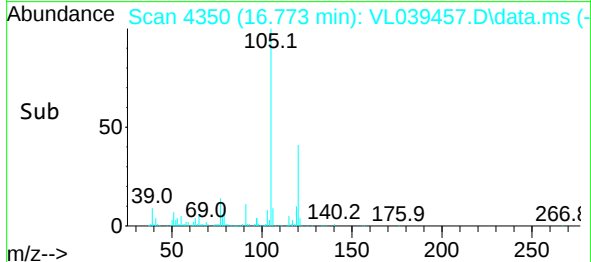
Instrument :
MSVOA_L
ClientSampleId :
SG-11



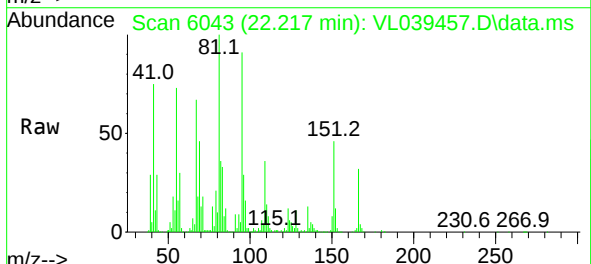
Tgt Ion:105 Resp: 837274
Ion Ratio Lower Upper
105 100
120 41.4 39.5 59.3
91 11.3 39.2 58.8
77 13.4 17.2 25.8#

Manual Integrations
APPROVED

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



#79
Naphthalene
Concen: 0.264 ppbv m
RT: 22.217 min Scan# 6043
Delta R.T. 0.058 min
Lab File: VL039457.D
Acq: 12 Jul 2022 20:57



Tgt Ion:128 Resp: 89134
Ion Ratio Lower Upper
128 100
127 17.1 10.6 15.8#
129 16.3 8.8 13.2#

