

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032122\
 Data File : VL038663.D
 Acq On : 21 Mar 2022 23:21
 Operator : SY/AP
 Sample : N1964-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P65

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/22/2022
 Supervised By :Mahesh Dadoda 03/24/2022

Quant Time: Mar 22 03:52:27 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 22 03:52:27 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.661	49	799852	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.166	114	1999431	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.073	117	1815491	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.404	95	1302529	9.358	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.054	85	23342	0.217	ppbv	94
3) Chlorodifluoromethane	2.993	51	36257m	0.429	ppbv	
4) Chloromethane	3.144	50	21731	0.469	ppbv	95
5) Vinyl Chloride	3.256	62	3152m	0.067	ppbv	
9) Propene	3.022	41	31743	0.778	ppbv	85
11) Trichlorofluoromethane	3.948	101	24929	0.263	ppbv	91
13) Ethanol	3.607	45	49885m	11.088	ppbv	
15) Acetone	3.848	43	145227	2.104	ppbv	95
17) tert-Butyl alcohol	4.301	59	11042m	0.183	ppbv	
19) Isopropyl Alcohol	3.980	45	22343m	0.584	ppbv	
20) Methylene Chloride	4.343	84	105909	3.643	ppbv	97
22) trans-1,2-Dichloroethene	4.880	96	5009m	0.147	ppbv	
26) Hexane	5.684	57	43271	0.556	ppbv #	42
29) Chloroform	5.745	83	12532	0.101	ppbv	93
31) cis-1,2-Dichloroethene	5.542	61	115763	1.583	ppbv	93
32) 1,1,1-Trichloroethane	6.500	97	6228m	0.052	ppbv	
34) 2-Butanone	5.240	43	113453	1.434	ppbv	99
35) Carbon Tetrachloride	7.008	117	7347m	0.063	ppbv	
38) Trichloroethene	7.819	130	2814m	0.044	ppbv	
41) Tetrahydrofuran	6.054	42	80469	1.366	ppbv	99
52) Tetrachloroethene	11.214	164	11287m	0.200	ppbv	
53) Toluene	9.796	91	673558	4.062	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.667	83	7214m	0.053	ppbv	
78) Hexachloro-1,3-Butadiene	23.352	225	13270m	0.110	ppbv	

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

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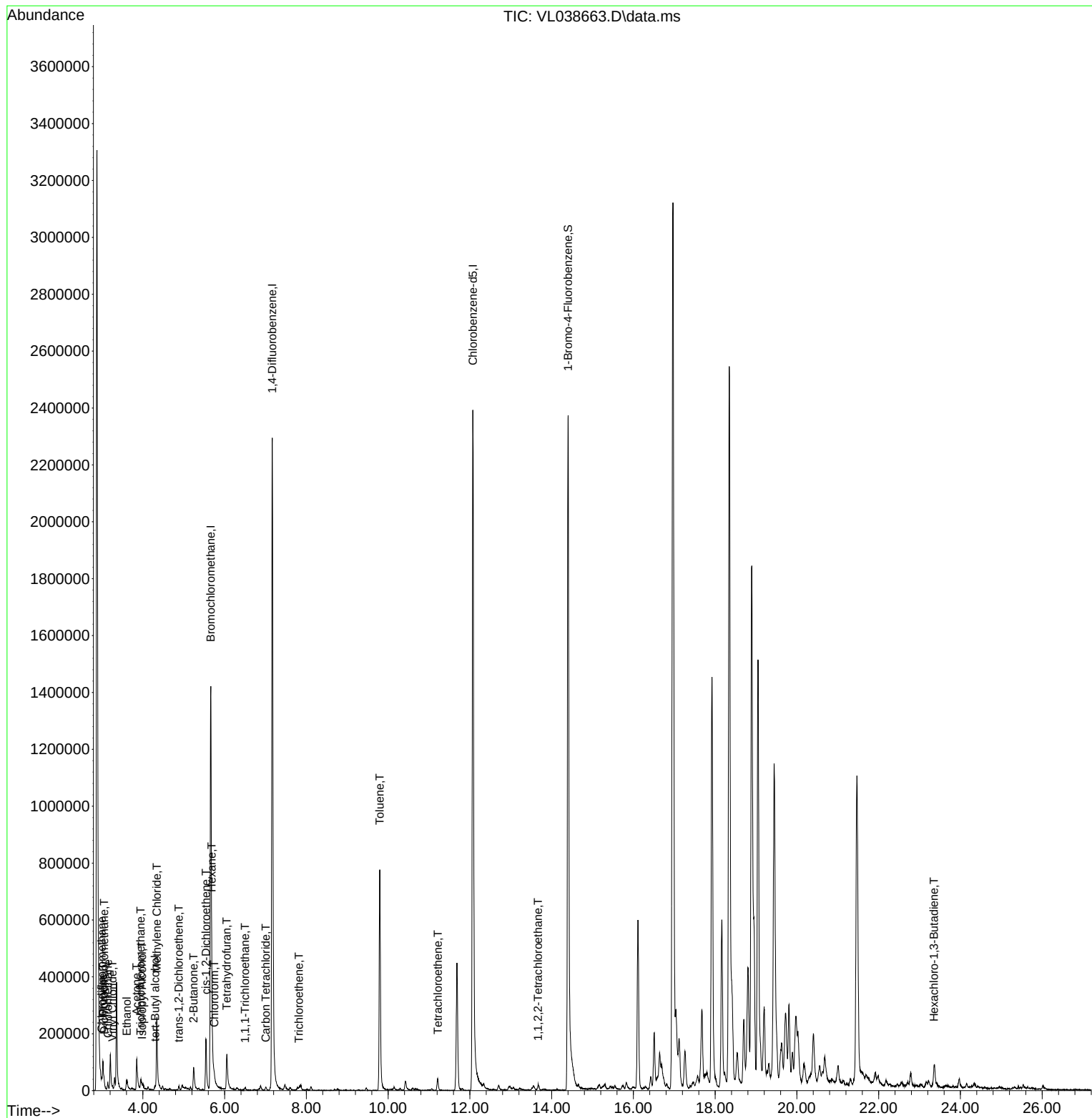
Quant Time: Mar 22 03:52:27 2022

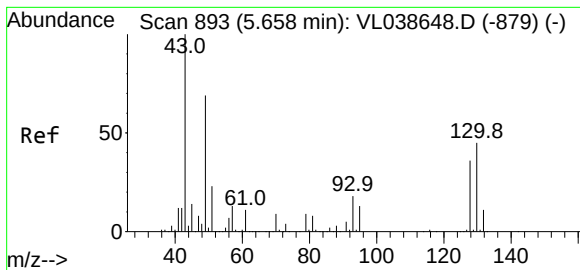
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar

QLast Update : Mon Mar 21 17:09:26 2022

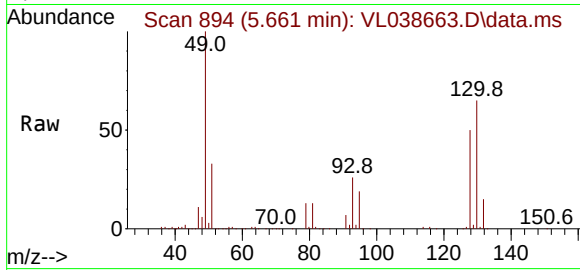
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.661 min Scan# 894
Delta R.T. 0.003 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

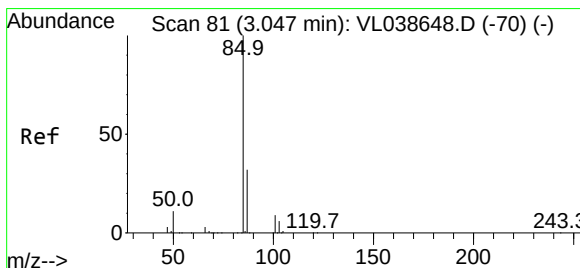
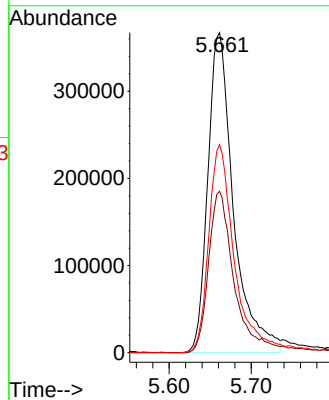
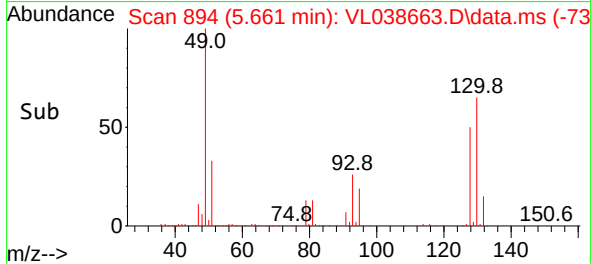
Instrument :
MSVOA_L
ClientSampleId :
COP65



Tgt Ion: 49 Resp: 799852
Ion Ratio Lower Upper
49 100
128 52.7 26.2 78.6
130 68.0 33.7 101.1

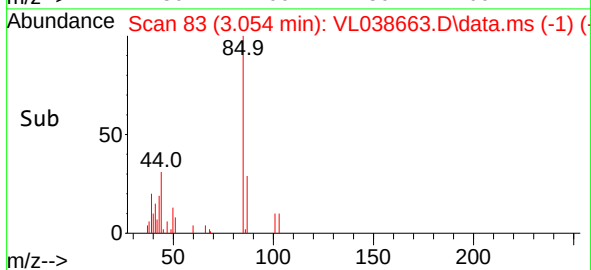
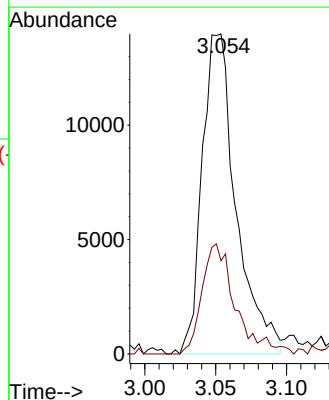
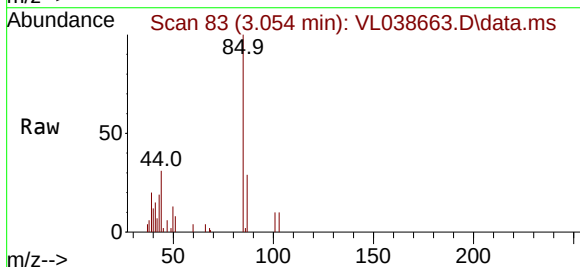
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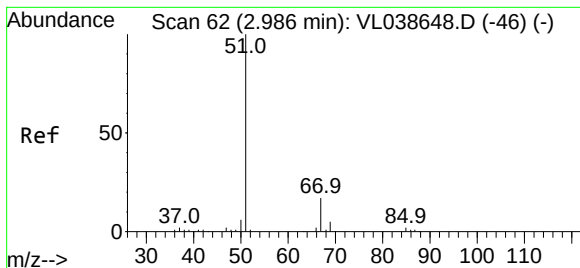
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#2
Dichlorodifluoromethane
Concen: 0.217 ppbv
RT: 3.054 min Scan# 83
Delta R.T. 0.006 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

Tgt Ion: 85 Resp: 23342
Ion Ratio Lower Upper
85 100
87 29.1 26.0 39.0





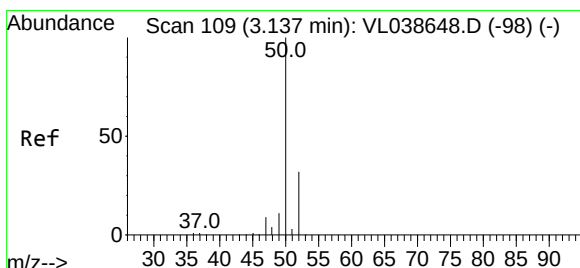
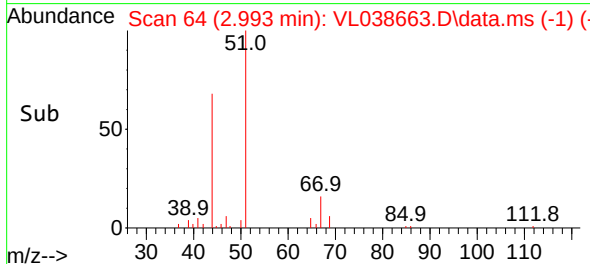
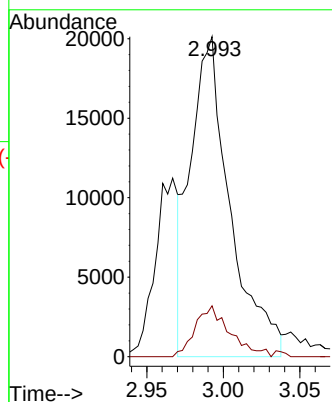
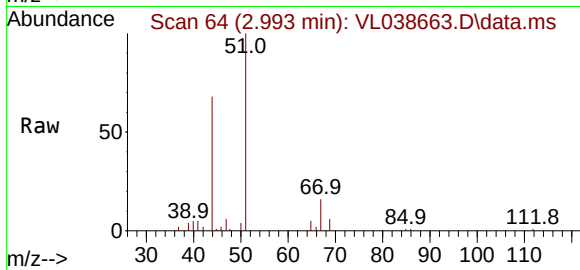
#3
Chlorodifluoromethane
Concen: 0.429 ppbv m
RT: 2.993 min Scan# 64
Delta R.T. 0.006 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

Instrument :
MSVOA_L
ClientSampleId :
COP65

Tgt Ion: 51 Resp: 3625
Ion Ratio Lower Upper
51 100
67 14.3 14.1 21.1

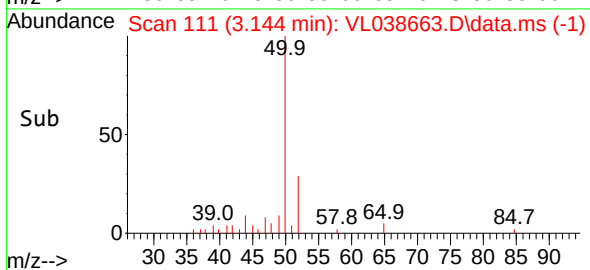
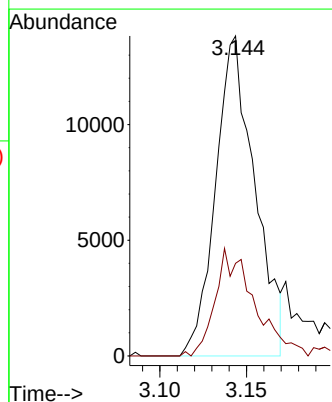
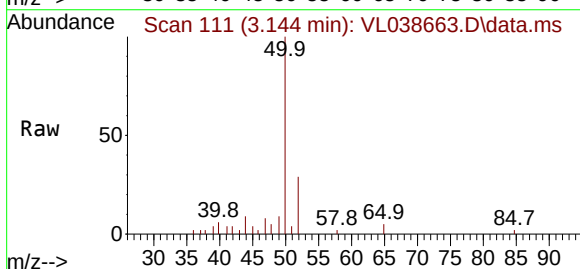
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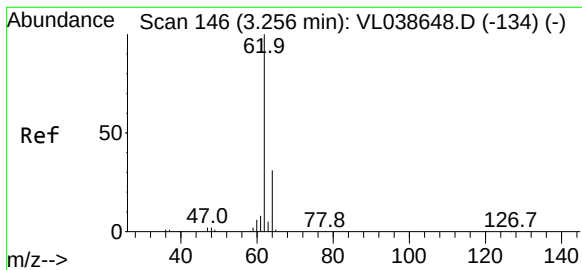
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#4
Chloromethane
Concen: 0.469 ppbv
RT: 3.144 min Scan# 111
Delta R.T. 0.006 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

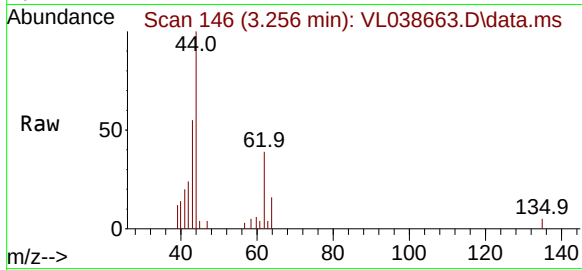
Tgt Ion: 50 Resp: 21731
Ion Ratio Lower Upper
50 100
52 28.9 25.5 38.3





#5
 Vinyl Chloride
 Concen: 0.067 ppbv m
 RT: 3.256 min Scan# 146
 Delta R.T. -0.000 min
 Lab File: VL038663.D
 Acq: 21 Mar 2022 23:21

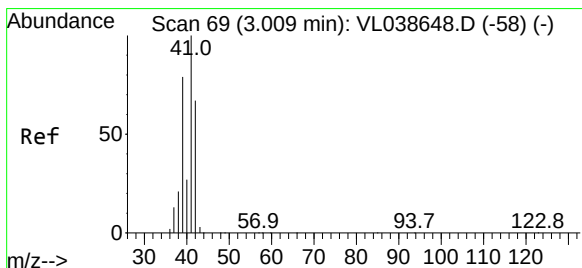
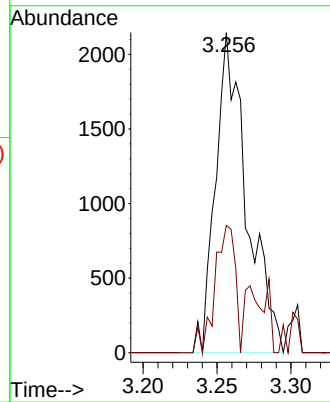
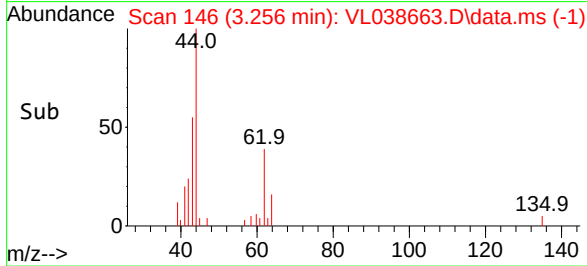
Instrument :
 MSVOA_L
 ClientSampleId :
 C0P65



Tgt Ion: 62 Resp: 3152
 Ion Ratio Lower Upper
 62 100
 64 39.7 25.0 37.4

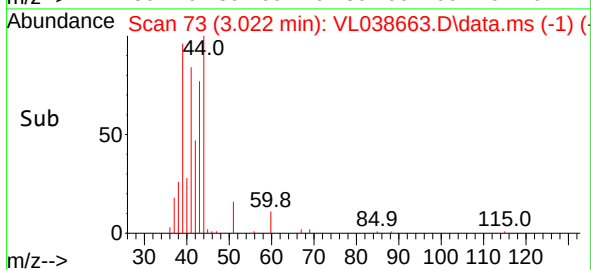
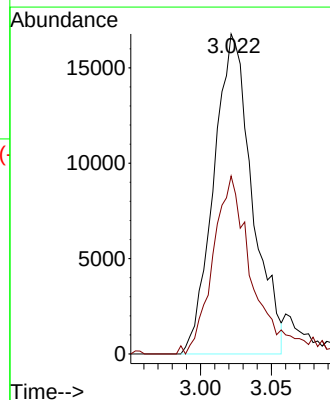
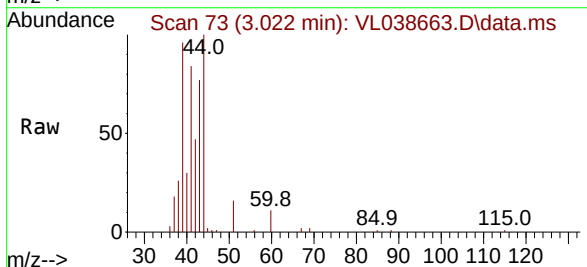
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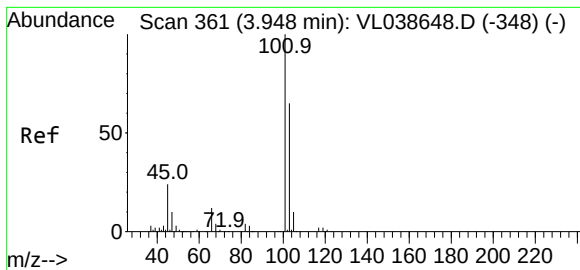
Reviewed By :Semsettin Yesilyurt 03/22/2022
 Supervised By :Mahesh Dadoda 03/24/2022



#9
 Propene
 Concen: 0.778 ppbv
 RT: 3.022 min Scan# 73
 Delta R.T. 0.013 min
 Lab File: VL038663.D
 Acq: 21 Mar 2022 23:21

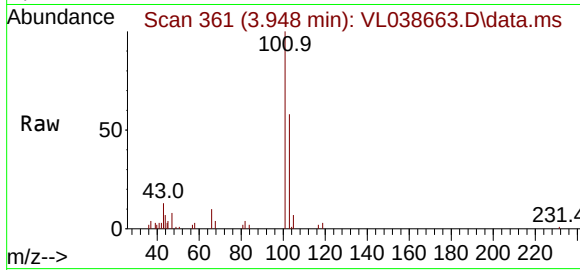
Tgt Ion: 41 Resp: 31743
 Ion Ratio Lower Upper
 41 100
 42 58.0 56.2 84.4





#11
 Trichlorofluoromethane
 Concen: 0.263 ppbv
 RT: 3.948 min Scan# 30
 Delta R.T. -0.000 min
 Lab File: VL038663.D
 Acq: 21 Mar 2022 23:21

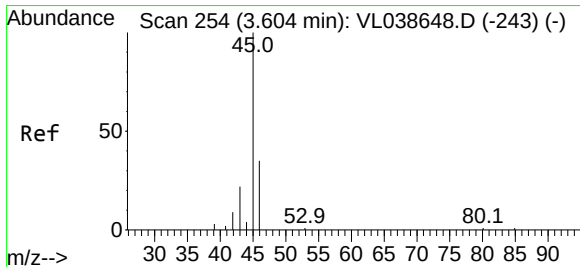
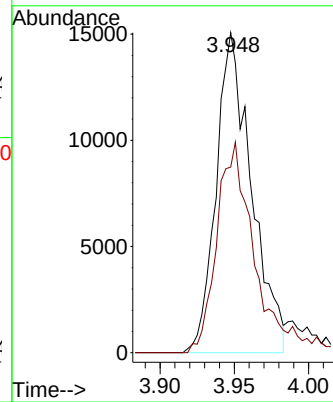
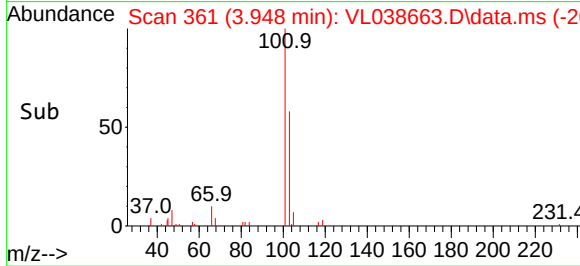
Instrument :
 MSVOA_L
 ClientSampleId :
 COP65



Tgt Ion:101 Resp: 24929
 Ion Ratio Lower Upper
 101 100
 103 58.0 51.9 77.9

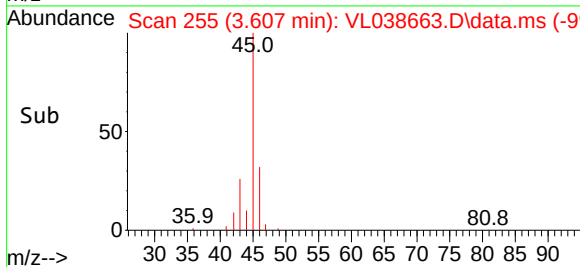
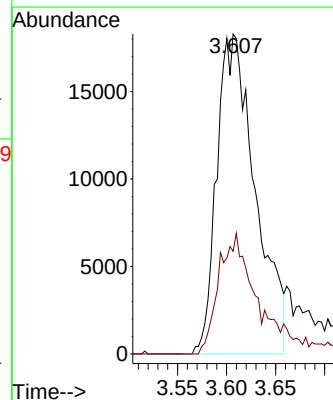
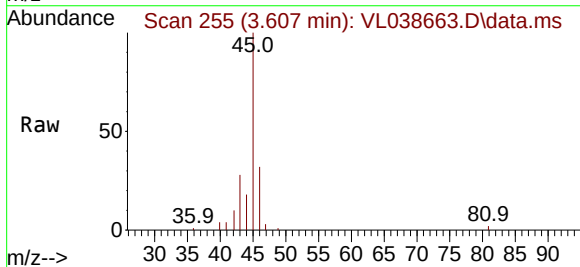
Manual Integrations
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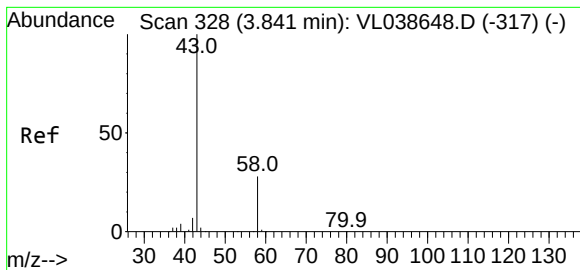
Reviewed By :Semsettin Yesilyurt 03/22/2022
 Supervised By :Mahesh Dadoda 03/24/2022



#13
 Ethanol
 Concen: 11.088 ppbv m
 RT: 3.607 min Scan# 255
 Delta R.T. 0.003 min
 Lab File: VL038663.D
 Acq: 21 Mar 2022 23:21

Tgt Ion: 45 Resp: 49885
 Ion Ratio Lower Upper
 45 100
 46 41.2 15.1 60.5





#15

Acetone

Concen: 2.104 ppbv

RT: 3.848 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL038663.D

Acq: 21 Mar 2022 23:21

Instrument :

MSVOA_L

ClientSampleId :

C0P65

Tgt Ion: 43 Resp: 14522

Ion Ratio Lower Upper

43 100

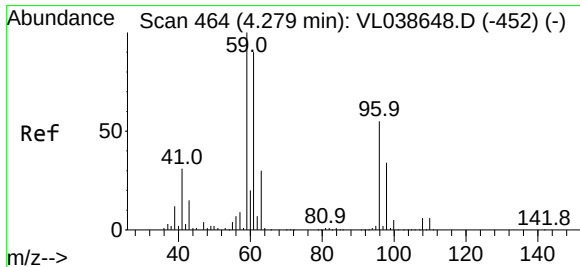
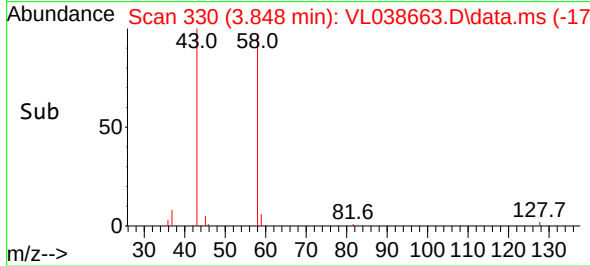
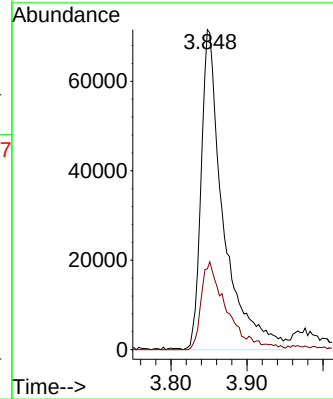
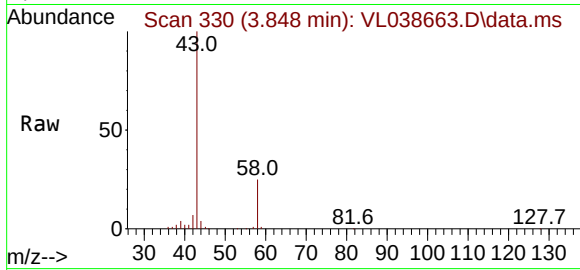
58 31.7 23.3 34.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/22/2022

Supervised By :Mahesh Dadoda 03/24/2022



#17

tert-Butyl alcohol

Concen: 0.183 ppbv m

RT: 4.301 min Scan# 471

Delta R.T. 0.022 min

Lab File: VL038663.D

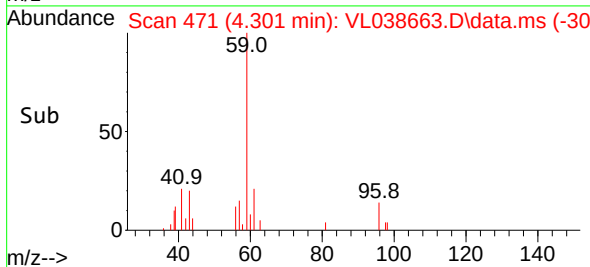
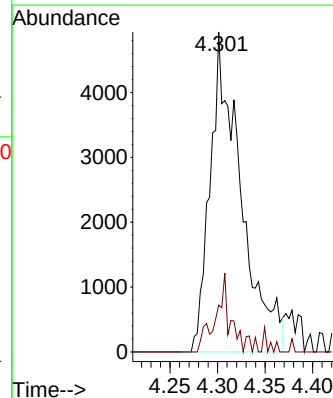
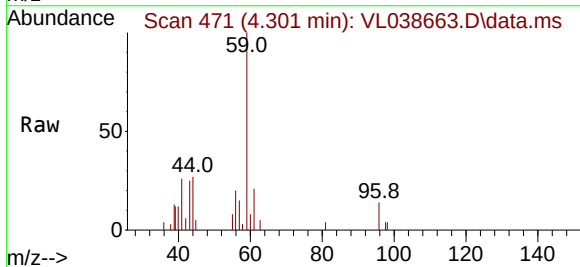
Acq: 21 Mar 2022 23:21

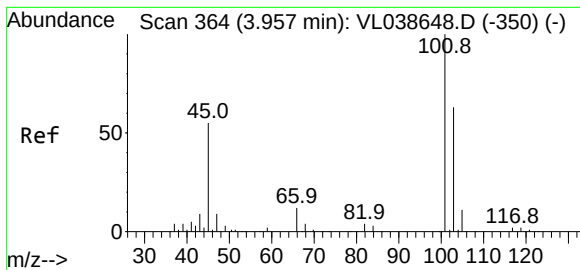
Tgt Ion: 59 Resp: 11042

Ion Ratio Lower Upper

59 100

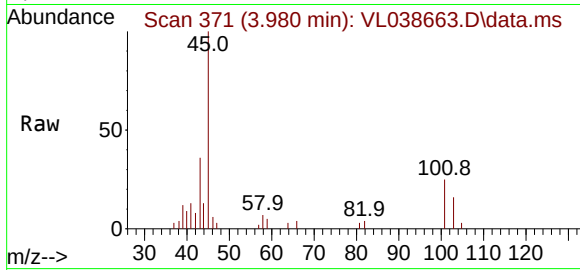
57 0.0 8.2 12.2#





#19
Isopropyl Alcohol
Concen: 0.584 ppbv m
RT: 3.980 min Scan# 31
Delta R.T. 0.022 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

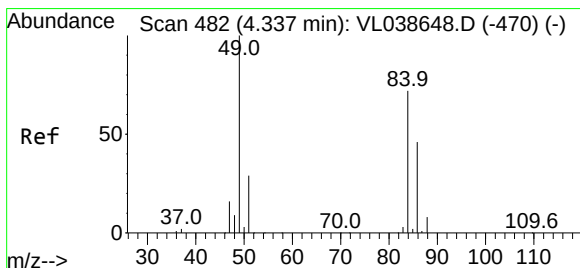
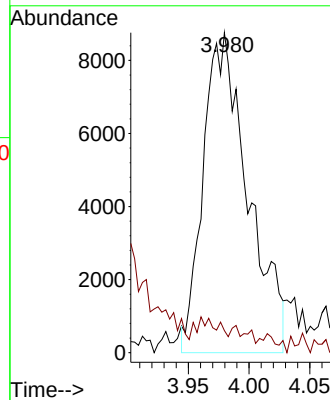
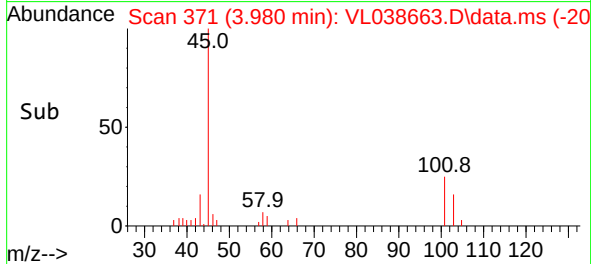
Instrument :
MSVOA_L
ClientSampleId :
COP65



Tgt Ion: 45 Resp: 2234
Ion Ratio Lower Upper
45 100
58 14.0 2.3 3.5

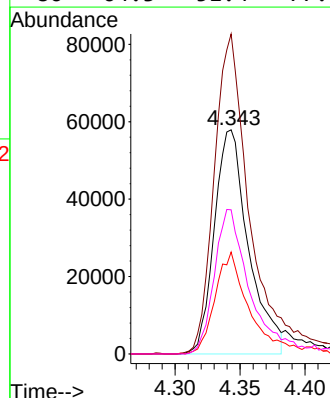
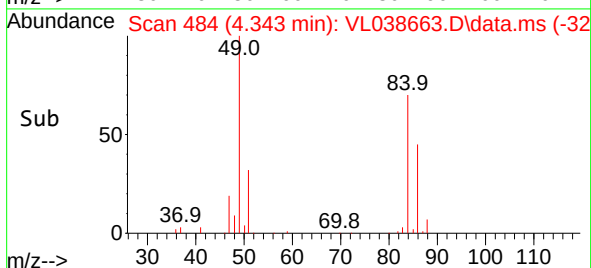
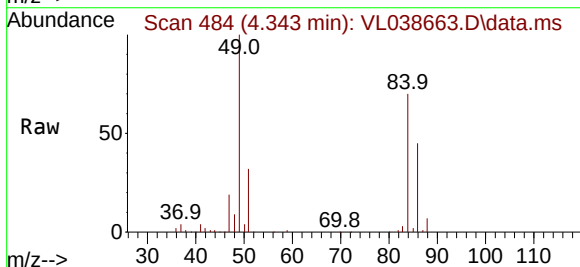
Manual Integrations
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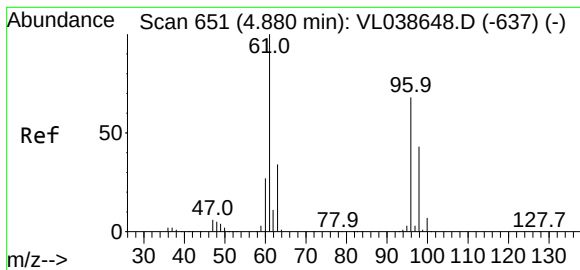
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#20
Methylene Chloride
Concen: 3.643 ppbv
RT: 4.343 min Scan# 484
Delta R.T. 0.006 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

Tgt Ion: 84 Resp: 105909
Ion Ratio Lower Upper
84 100
49 142.4 111.2 166.8
51 45.0 32.8 49.2
86 64.3 51.4 77.0





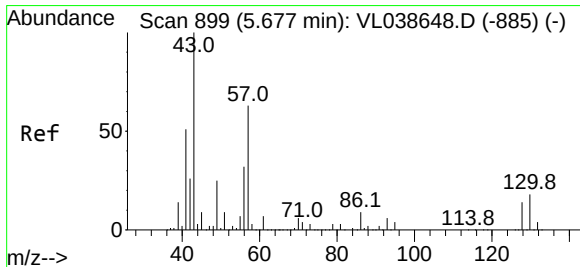
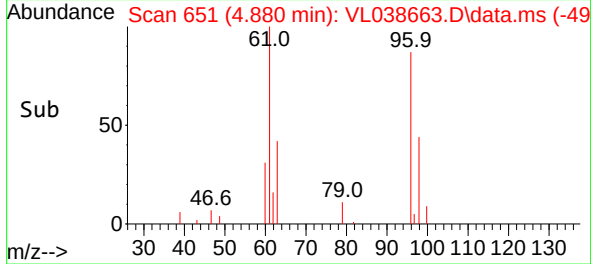
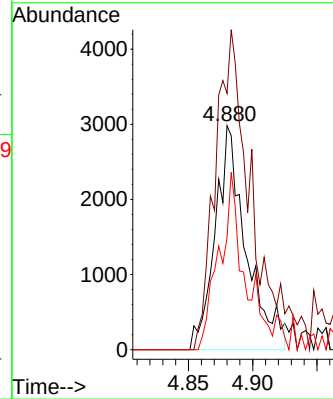
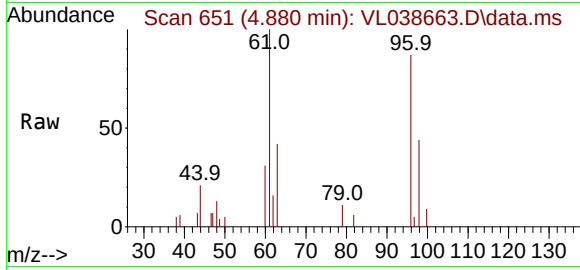
#22
trans-1,2-Dichloroethene
Concen: 0.147 ppbv m
RT: 4.880 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

Instrument :
MSVOA_L
ClientSampleId :
COP65

Tgt Ion: 96 Resp: 5009
Ion Ratio Lower Upper
96 100
61 114.5 118.3 177.5#
98 50.0 51.3 76.9#

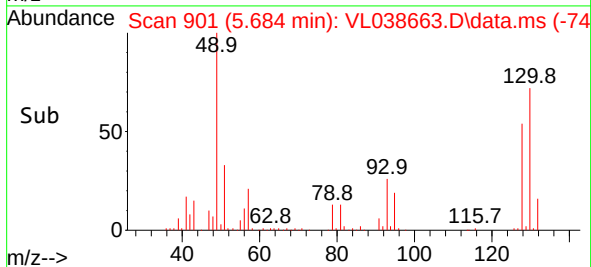
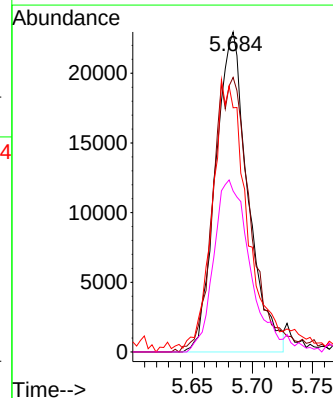
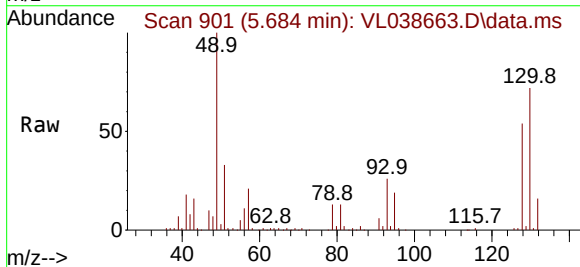
Manual Integrations
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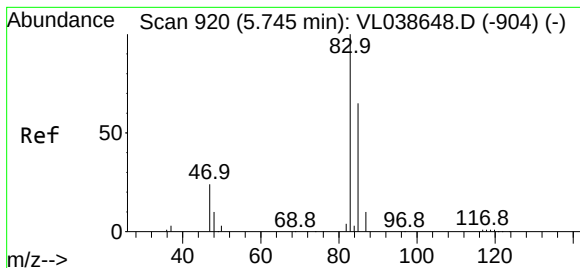
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#26
Hexane
Concen: 0.556 ppbv
RT: 5.684 min Scan# 901
Delta R.T. 0.006 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

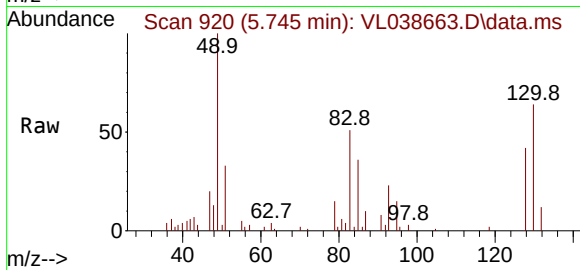
Tgt Ion: 57 Resp: 43271
Ion Ratio Lower Upper
57 100
41 101.8 67.0 100.4#
43 94.7 184.2 276.2#
56 61.4 42.6 64.0#





#29
Chloroform
Concen: 0.101 ppbv
RT: 5.745 min Scan# 912
Delta R.T. -0.000 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

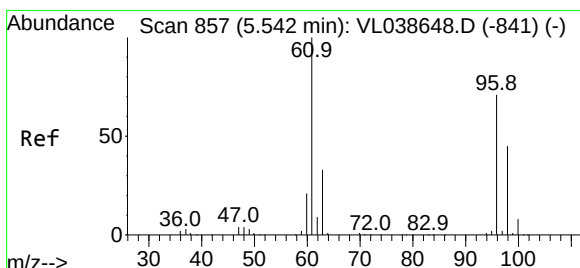
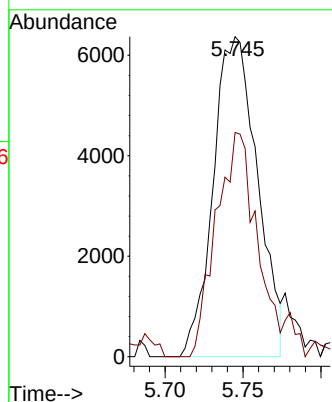
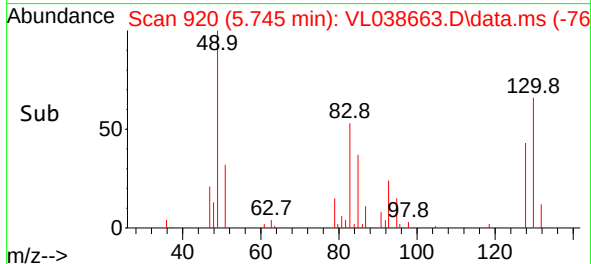
Instrument :
MSVOA_L
ClientSampleId :
COP65



Tgt Ion: 83 Resp: 12532
Ion Ratio Lower Upper
83 100
85 70.0 51.7 77.5

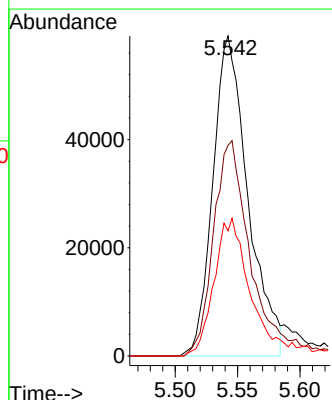
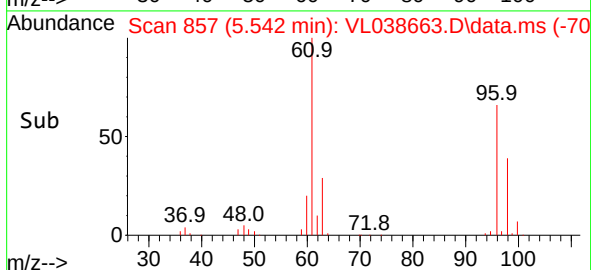
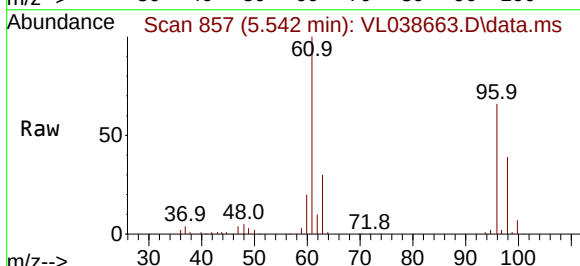
Manual Integrations
APPROVED

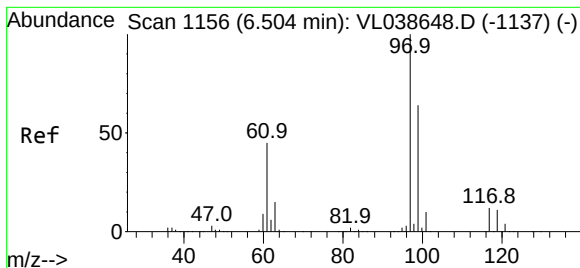
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#31
cis-1,2-Dichloroethene
Concen: 1.583 ppbv
RT: 5.542 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

Tgt Ion: 61 Resp: 115763
Ion Ratio Lower Upper
61 100
96 65.8 56.6 84.8
98 39.1 36.3 54.5





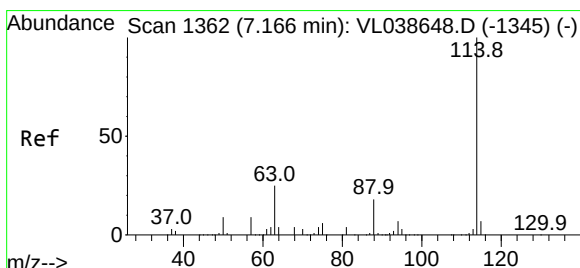
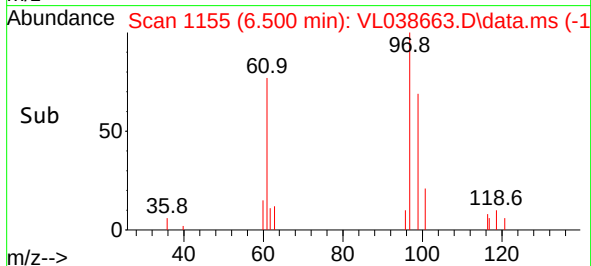
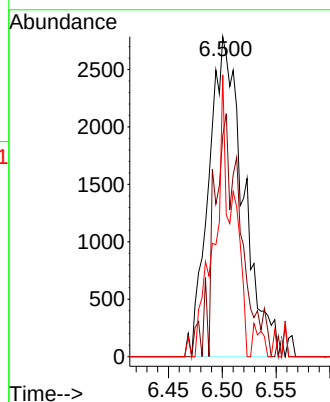
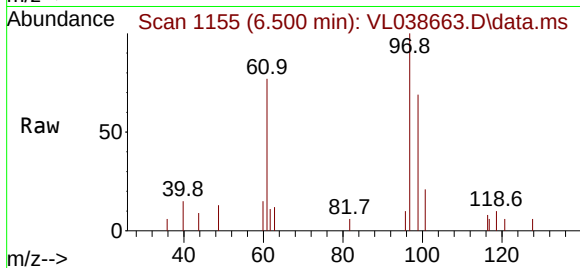
#32
1,1,1-Trichloroethane
Concen: 0.052 ppbv m
RT: 6.500 min Scan# 1155
Delta R.T. -0.003 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

Instrument :
MSVOA_L
ClientSampleId :
COP65

Tgt Ion: 97 Resp: 6228
Ion Ratio Lower Upper
97 100
99 60.4 51.8 77.8
61 50.7 36.7 55.1

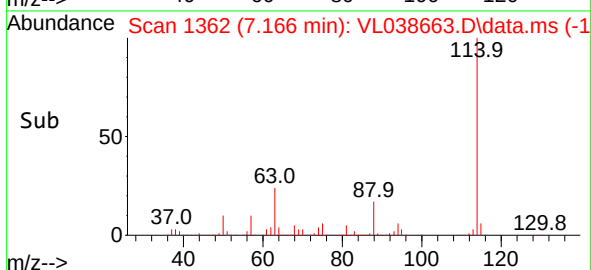
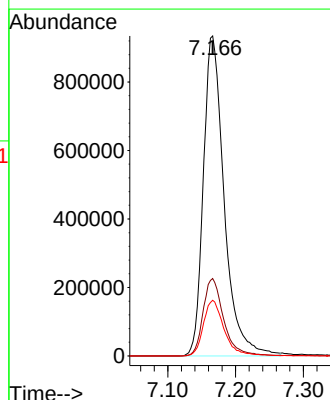
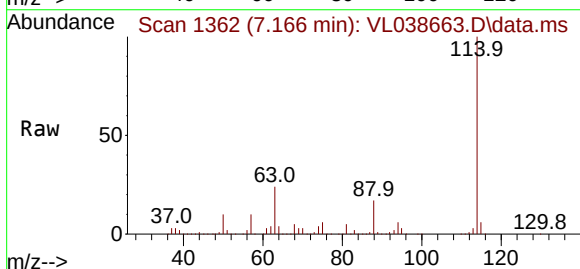
Manual Integrations
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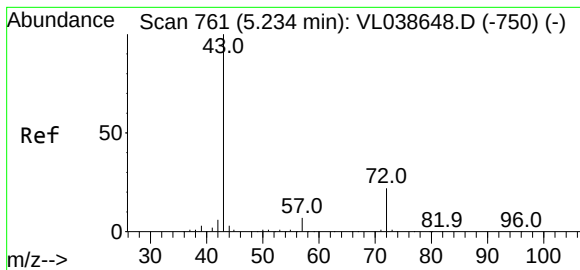
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.166 min Scan# 1362
Delta R.T. -0.000 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

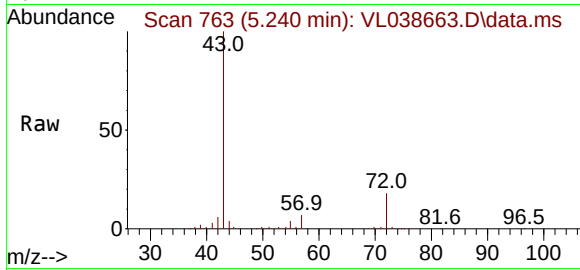
Tgt Ion:114 Resp: 1999431
Ion Ratio Lower Upper
114 100
63 24.1 19.4 29.0
88 17.5 13.9 20.9





#34
2-Butanone
Concen: 1.434 ppbv
RT: 5.240 min Scan# 761
Delta R.T. 0.006 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

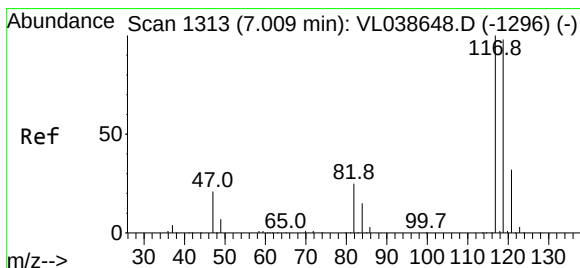
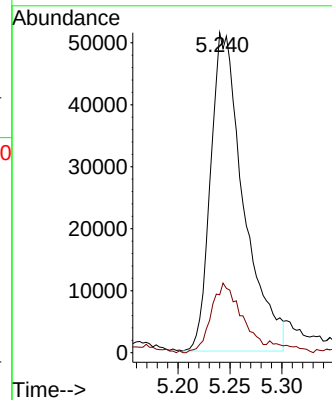
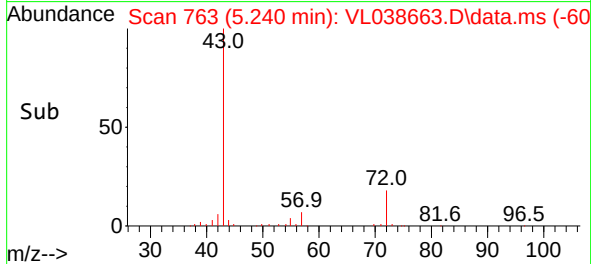
Instrument :
MSVOA_L
ClientSampleId :
COP65



Tgt Ion: 43 Resp: 11345
Ion Ratio Lower Upper
43 100
72 22.6 17.8 26.8

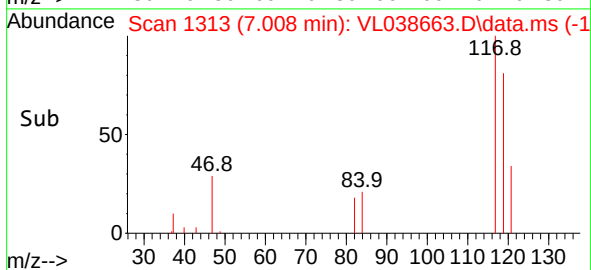
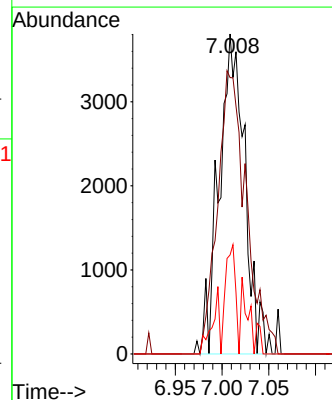
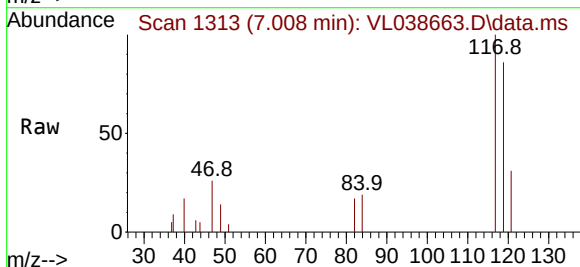
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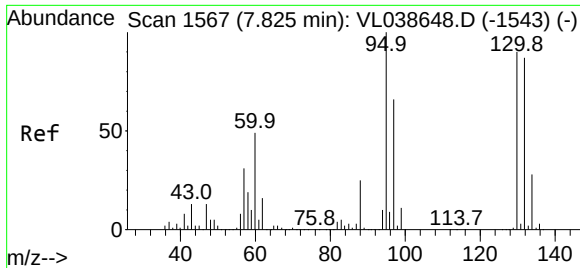
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 7.008 min Scan# 1313
Delta R.T. -0.000 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

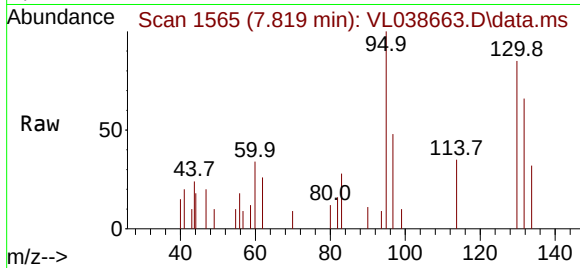
Tgt Ion:117 Resp: 7347
Ion Ratio Lower Upper
117 100
119 86.4 78.1 117.1
121 30.9 25.8 38.6





#38
Trichloroethene
Concen: 0.044 ppbv m
RT: 7.819 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

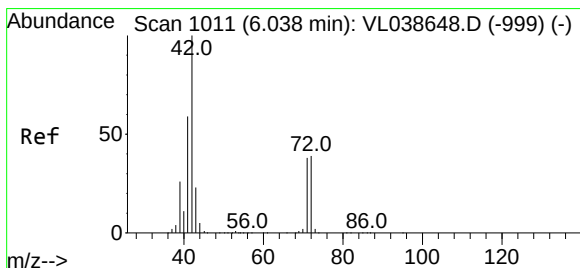
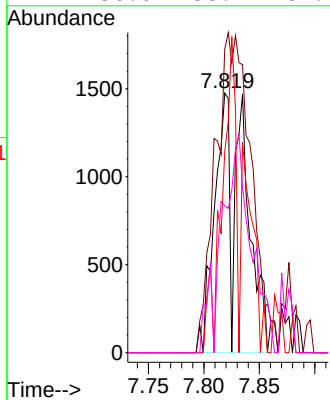
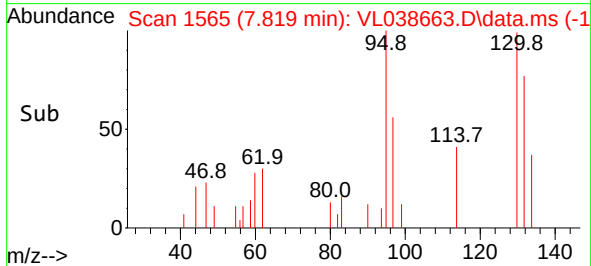
Instrument :
MSVOA_L
ClientSampleId :
COP65



Tgt Ion:130 Resp: 2814
Ion Ratio Lower Upper
130 100
95 117.0 88.9 133.3
132 77.5 77.4 116.0
97 56.6 58.2 87.4#

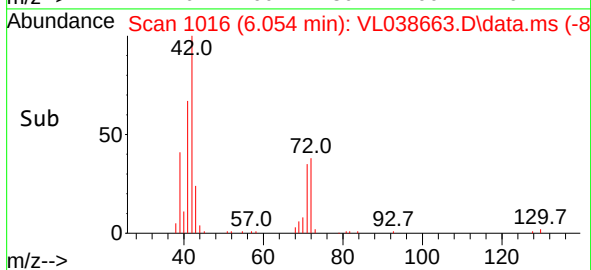
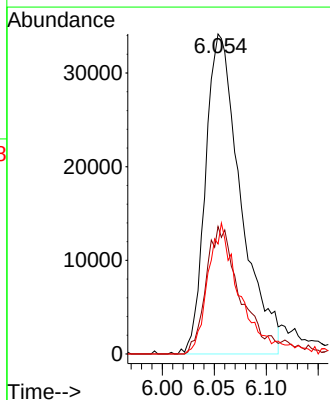
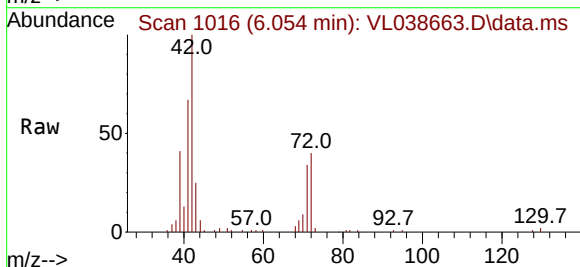
Manual Integrations
APPROVED

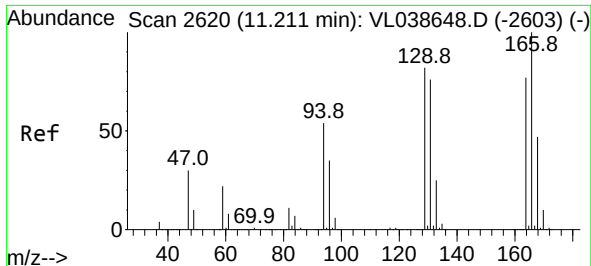
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#41
Tetrahydrofuran
Concen: 1.366 ppbv
RT: 6.054 min Scan# 1016
Delta R.T. 0.016 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

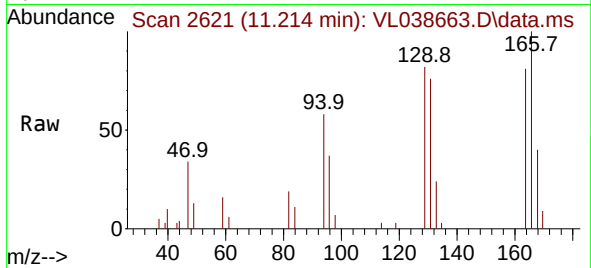
Tgt Ion: 42 Resp: 80469
Ion Ratio Lower Upper
42 100
72 41.9 32.5 48.7
71 39.0 31.4 47.2





#52
Tetrachloroethene
Concen: 0.200 ppbv m
RT: 11.214 min Scan# 2621
Delta R.T. 0.003 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

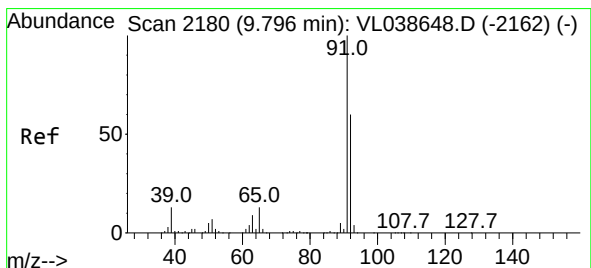
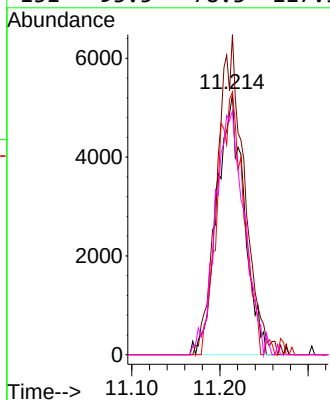
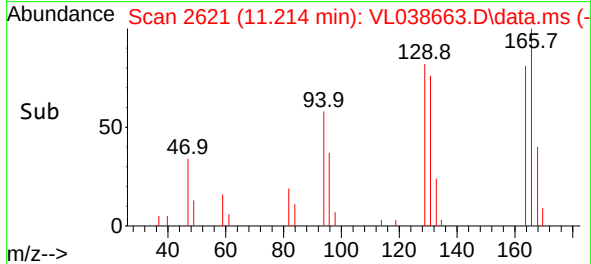
Instrument :
MSVOA_L
ClientSampleId :
COP65



Tgt Ion:164 Resp: 1128
Ion Ratio Lower Upper
164 100
166 122.7 103.3 154.9
129 100.8 85.2 127.8
131 93.5 78.3 117.5

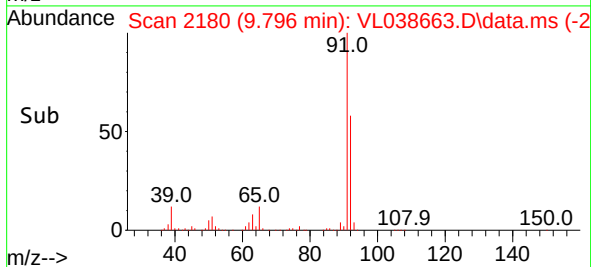
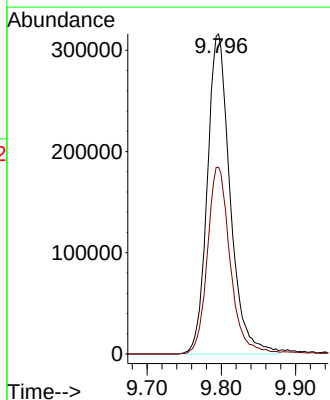
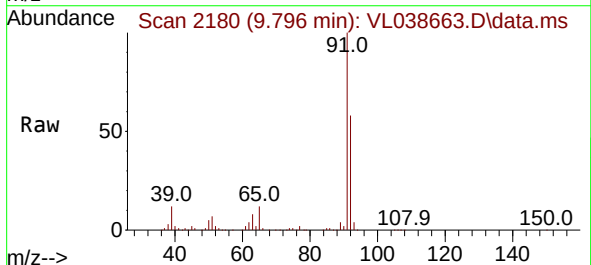
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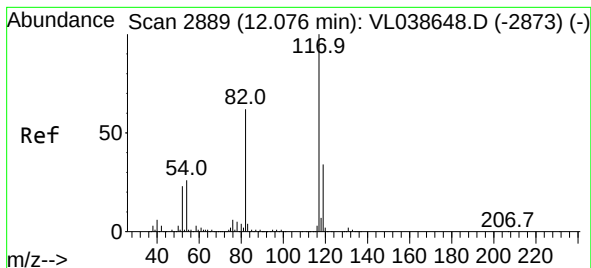
Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#53
Toluene
Concen: 4.062 ppbv
RT: 9.796 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

Tgt Ion: 91 Resp: 673558
Ion Ratio Lower Upper
91 100
92 59.0 48.7 73.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.073 min Scan# 2888

Delta R.T. -0.003 min

Lab File: VL038663.D

Acq: 21 Mar 2022 23:21

Instrument :

MSVOA_L

ClientSampleId :

COP65

Tgt Ion:117 Resp: 181549

Ion Ratio Lower Upper

117 100

82 65.8 51.6 77.4

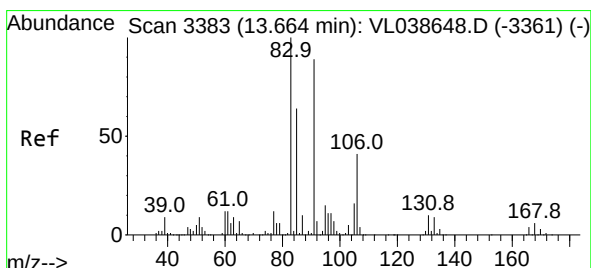
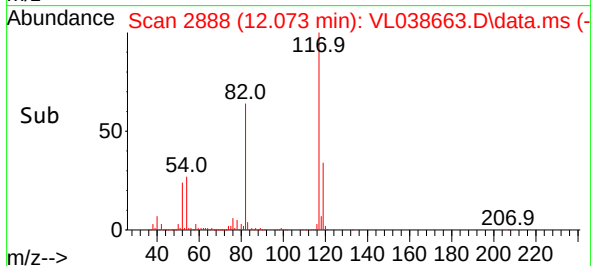
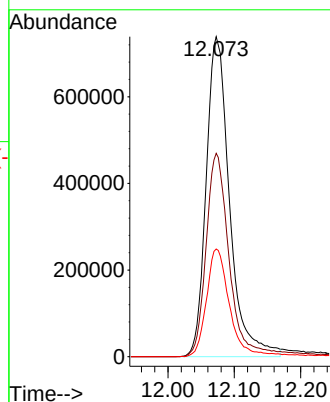
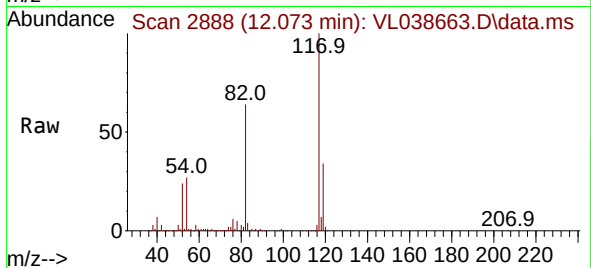
119 34.2 26.9 40.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/22/2022

Supervised By :Mahesh Dadoda 03/24/2022



#63

1,1,2,2-Tetrachloroethane

Concen: 0.053 ppbv m

RT: 13.667 min Scan# 3384

Delta R.T. 0.003 min

Lab File: VL038663.D

Acq: 21 Mar 2022 23:21

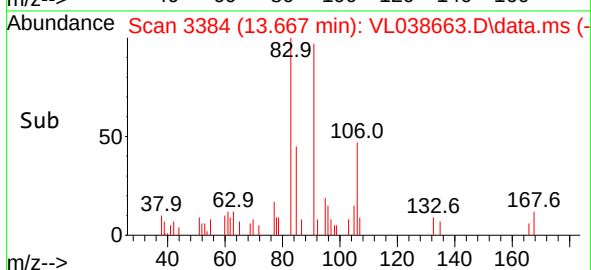
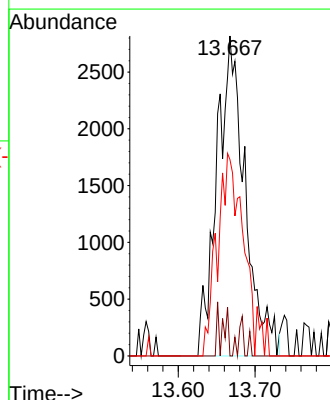
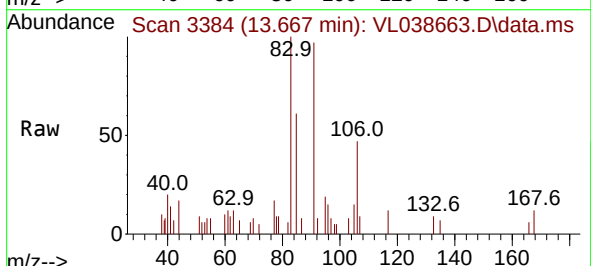
Tgt Ion: 83 Resp: 7214

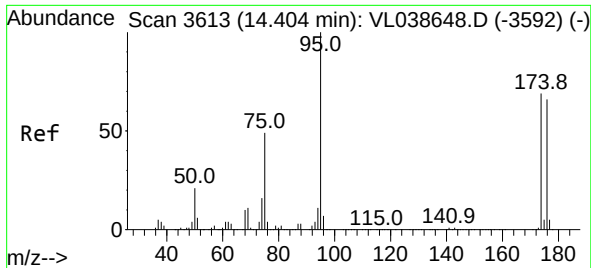
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

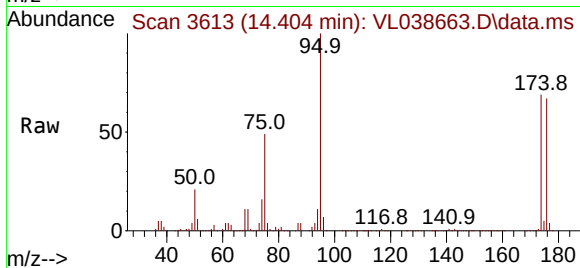
85 59.8 32.6 97.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.358 ppbv
RT: 14.404 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21

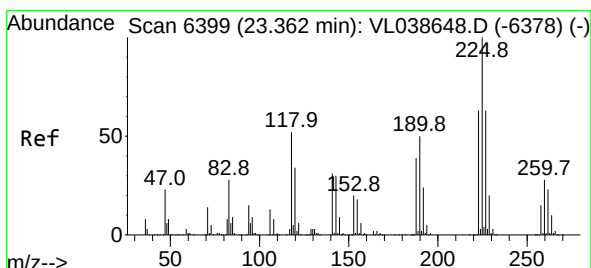
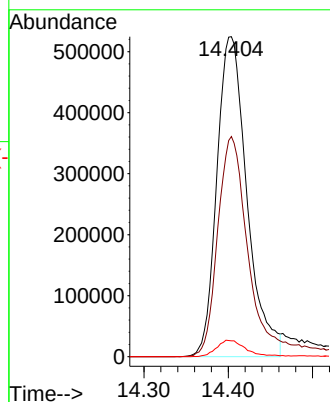
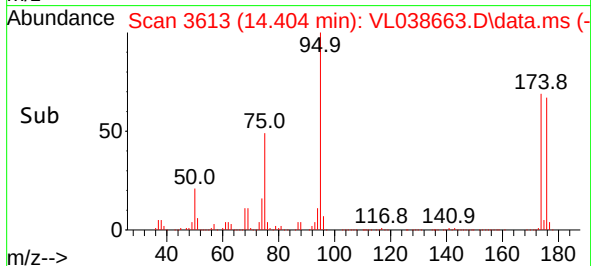
Instrument :
MSVOA_L
ClientSampleId :
COP65



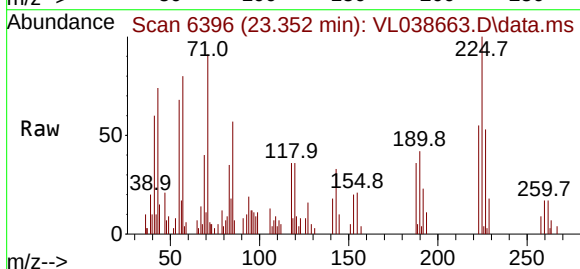
Tgt Ion: 95 Resp: 1302529
Ion Ratio Lower Upper
95 100
174 74.7 56.1 84.1
175 5.1 4.2 6.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/22/2022
Supervised By :Mahesh Dadoda 03/24/2022



#78
Hexachloro-1,3-Butadiene
Concen: 0.110 ppbv m
RT: 23.352 min Scan# 6396
Delta R.T. -0.010 min
Lab File: VL038663.D
Acq: 21 Mar 2022 23:21



Tgt Ion:225 Resp: 13270
Ion Ratio Lower Upper
225 100
223 59.4 51.0 76.6
227 60.8 51.5 77.3

