

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032122\
 Data File : VL038677.D
 Acq On : 22 Mar 2022 8:56
 Operator : SY/AP
 Sample : N1964-12
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P82

Manual Integrations
 APPROVED

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

Quant Time: Mar 23 03:41:34 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 2

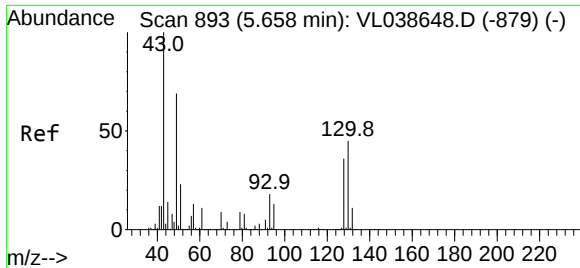
QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

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

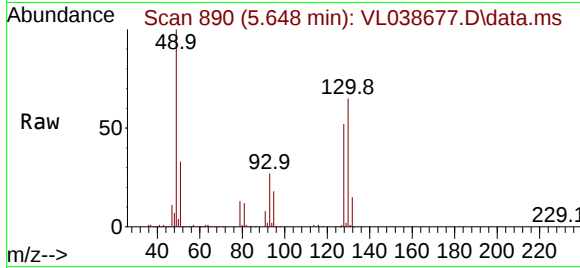
Internal Standards						
1) Bromochloromethane	5.648	49	795418	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.153	114	2049082	10.000	ppbv	-0.01
55) Chlorobenzene-d5	12.060	117	1890822	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.391	95	1378888	9.512	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.047	85	19110	0.179	ppbv	98
3) Chlorodifluoromethane	2.980	51	26202m	0.312	ppbv	
4) Chloromethane	3.134	50	38774	0.841	ppbv	94
9) Propene	3.018	41	37626	0.928	ppbv #	79
11) Trichlorofluoromethane	3.941	101	22476	0.238	ppbv	94
13) Ethanol	3.594	45	56419	12.610	ppbv	87
15) Acetone	3.838	43	205415m	2.993	ppbv	
17) tert-Butyl alcohol	4.292	59	14656m	0.245	ppbv	
19) Isopropyl Alcohol	3.960	45	17717m	0.466	ppbv	
20) Methylene Chloride	4.330	84	34416	1.191	ppbv	94
31) cis-1,2-Dichloroethene	5.536	61	108337	1.490	ppbv	92
34) 2-Butanone	5.234	43	195838	2.415	ppbv	94
35) Carbon Tetrachloride	6.999	117	7341m	0.062	ppbv	
36) Benzene	6.873	78	21002	0.133	ppbv #	94
38) Trichloroethene	7.812	130	53297	0.804	ppbv	94
41) Tetrahydrofuran	6.044	42	52462m	0.869	ppbv	
44) 2,2,4-Trimethylpentane	7.851	57	72310	0.272	ppbv #	83
52) Tetrachloroethene	11.201	164	1823363	31.507	ppbv	97
53) Toluene	9.783	91	1085071	6.386	ppbv	98

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.648 min Scan# 893
Delta R.T. -0.010 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

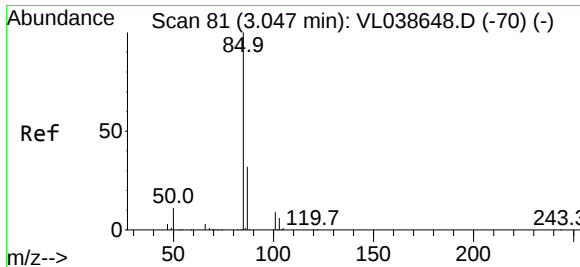
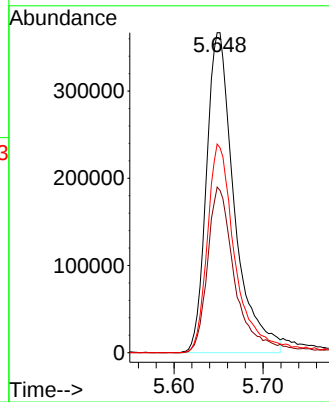
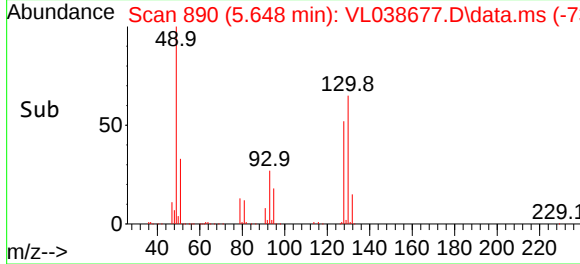
Instrument :
MSVOA_L
ClientSampleId :
COP82



Tgt Ion: 49 Resp: 795418
Ion Ratio Lower Upper
49 100
128 52.7 26.2 78.6
130 68.1 33.7 101.1

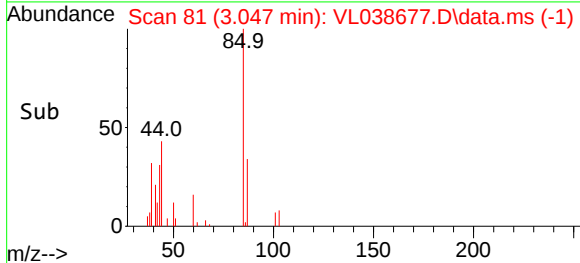
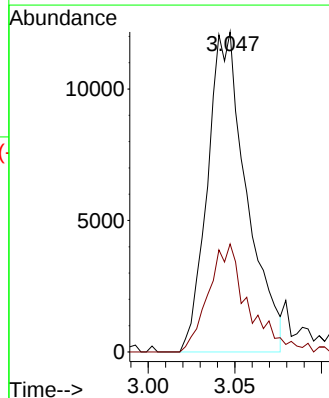
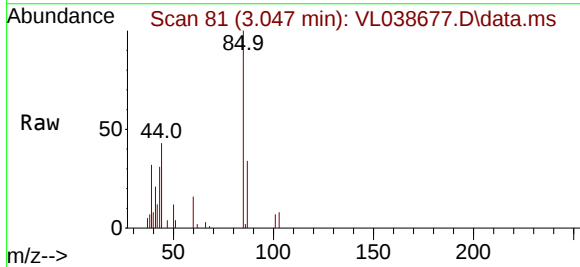
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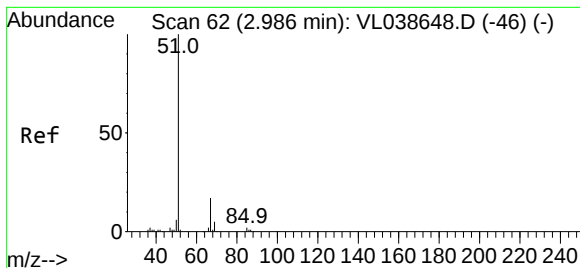
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#2
Dichlorodifluoromethane
Concen: 0.179 ppbv
RT: 3.047 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

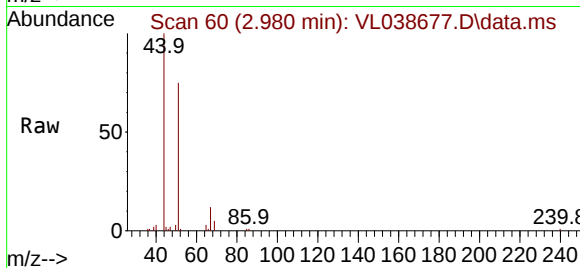
Tgt Ion: 85 Resp: 19110
Ion Ratio Lower Upper
85 100
87 33.8 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.312 ppbv m
RT: 2.980 min Scan# 60
Delta R.T. -0.007 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

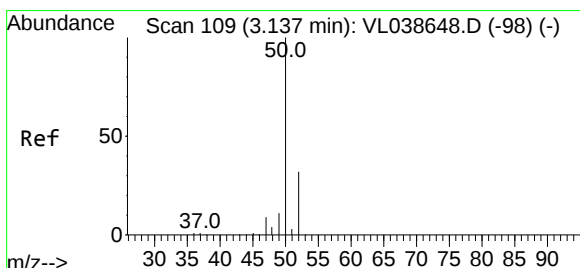
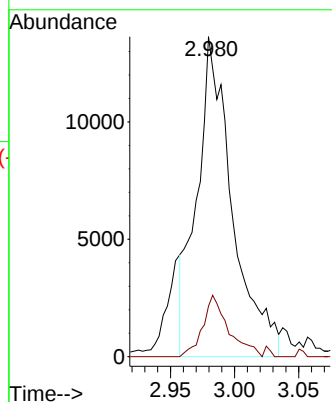
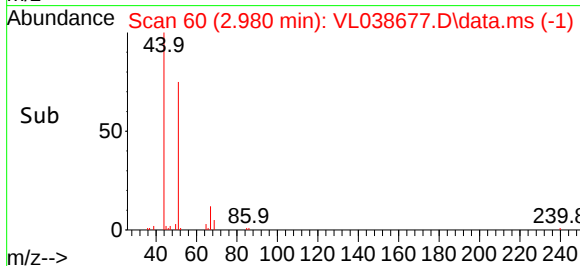
Instrument :
MSVOA_L
ClientSampleId :
COP82



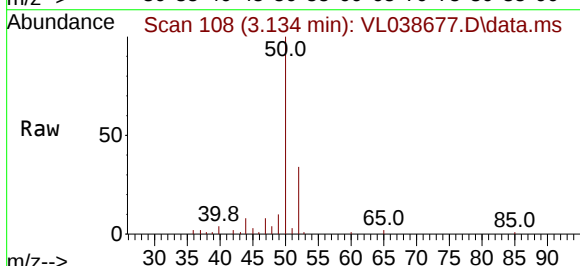
Tgt Ion: 51 Resp: 2620
Ion Ratio Lower Upper
51 100
67 14.5 14.1 21.1

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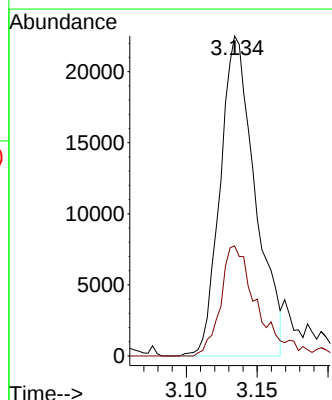
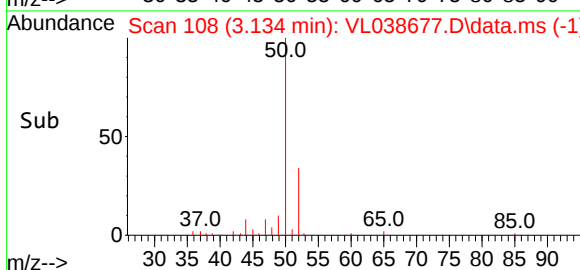
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Supervised By :Mahesh Dadoda 03/24/2022

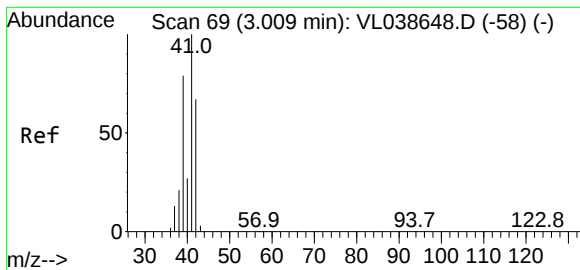


#4
Chloromethane
Concen: 0.841 ppbv
RT: 3.134 min Scan# 108
Delta R.T. -0.003 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56



Tgt Ion: 50 Resp: 38774
Ion Ratio Lower Upper
50 100
52 35.3 25.5 38.3





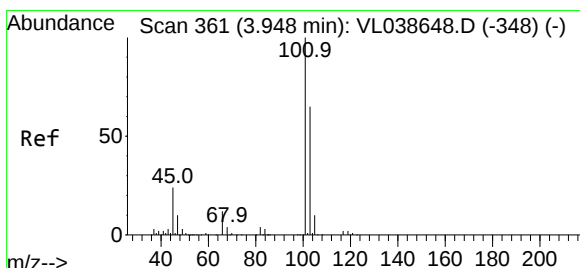
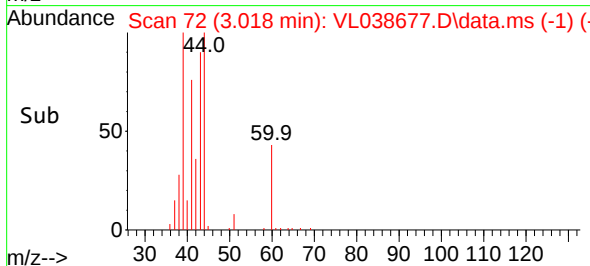
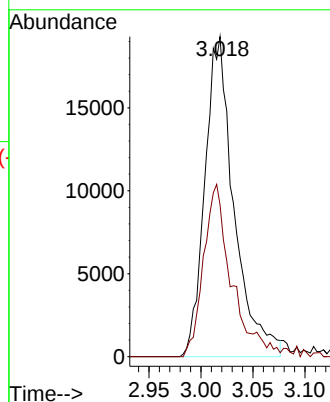
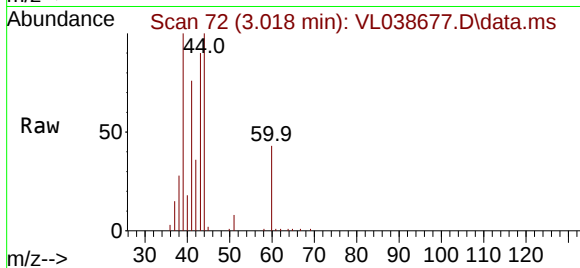
#9
Propene
Concen: 0.928 ppbv
RT: 3.018 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

Instrument :
MSVOA_L
ClientSampleId :
COP82

Tgt Ion: 41 Resp: 37620
Ion Ratio Lower Upper
41 100
42 53.3 56.2 84.4

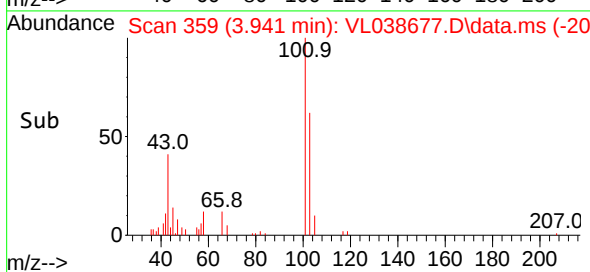
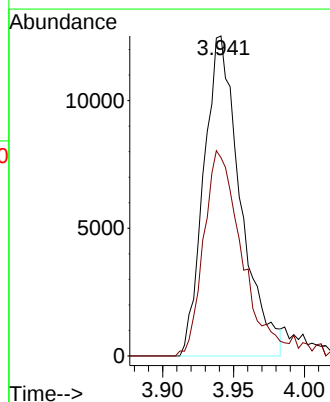
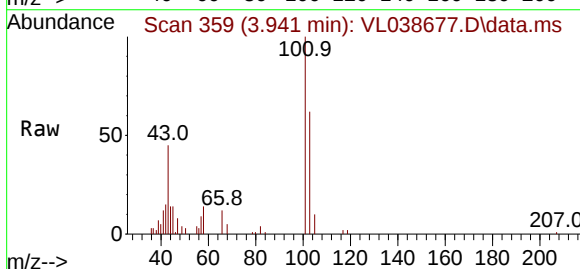
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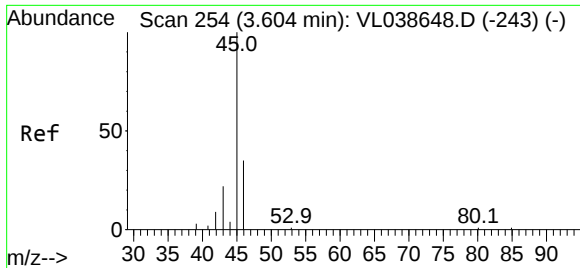
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#11
Trichlorofluoromethane
Concen: 0.238 ppbv
RT: 3.941 min Scan# 359
Delta R.T. -0.007 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

Tgt Ion:101 Resp: 22476
Ion Ratio Lower Upper
101 100
103 60.4 51.9 77.9





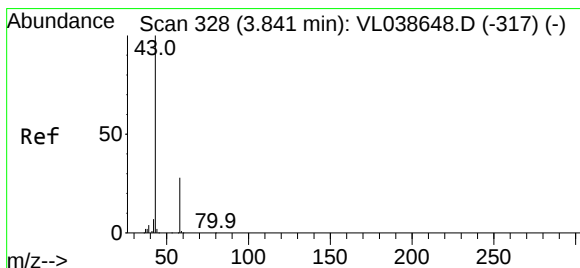
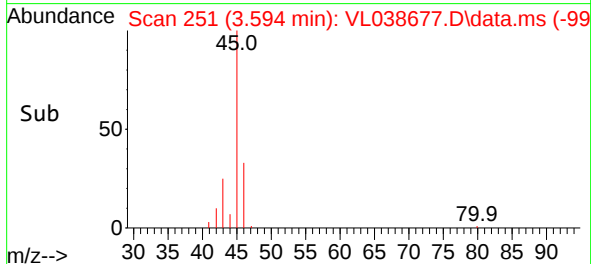
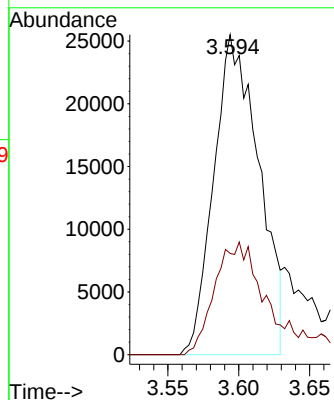
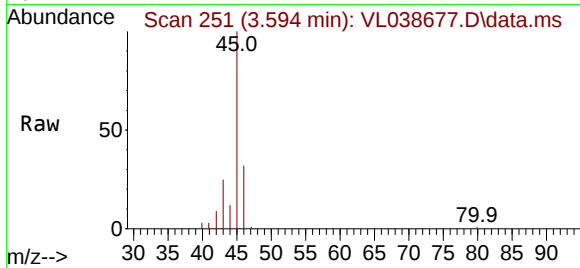
#13
Ethanol
Concen: 12.610 ppbv
RT: 3.594 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

Instrument :
MSVOA_L
ClientSampleId :
COP82

Tgt Ion: 45 Resp: 56419
Ion Ratio Lower Upper
45 100
46 45.3 15.1 60.5

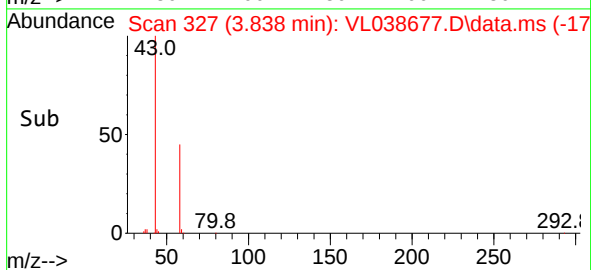
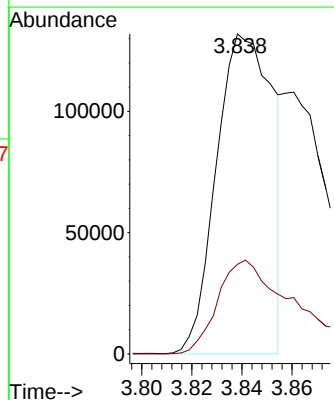
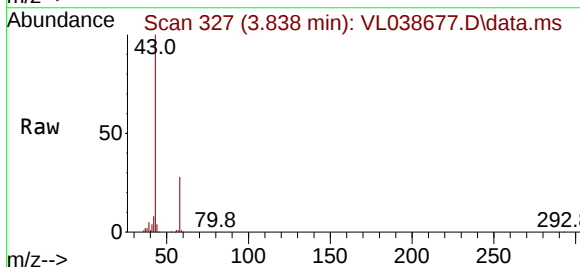
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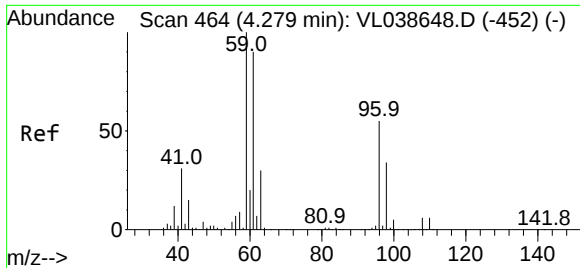
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#15
Acetone
Concen: 2.993 ppbv m
RT: 3.838 min Scan# 327
Delta R.T. -0.003 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

Tgt Ion: 43 Resp: 205415
Ion Ratio Lower Upper
43 100
58 46.1 23.3 34.9#





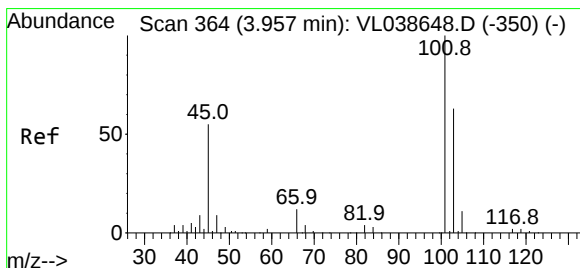
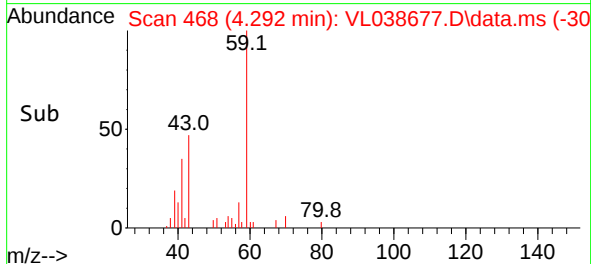
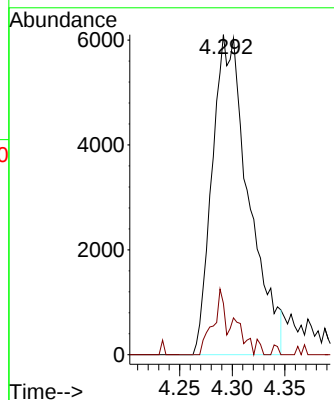
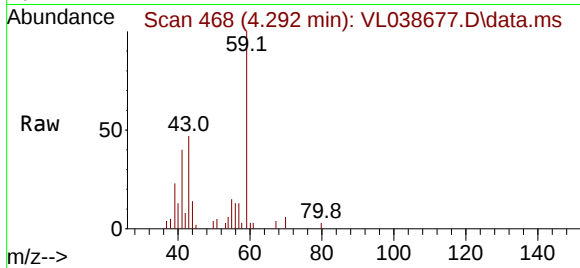
#17
tert-Butyl alcohol
Concen: 0.245 ppbv m
RT: 4.292 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

Instrument :
MSVOA_L
ClientSampleId :
COP82

Tgt Ion: 59 Resp: 14650
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2

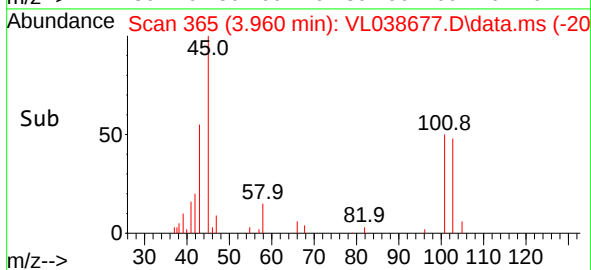
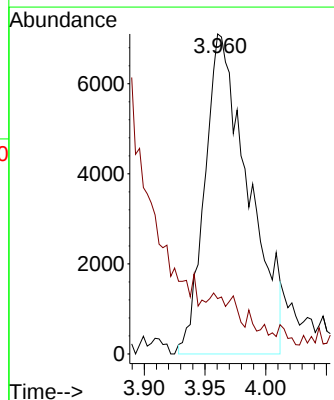
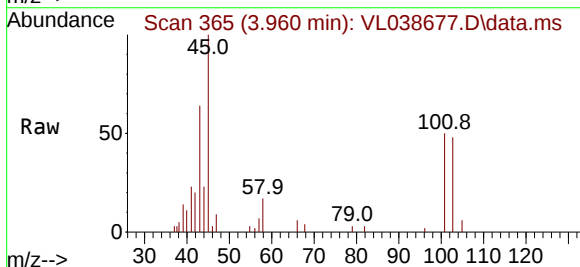
Manual Integrations
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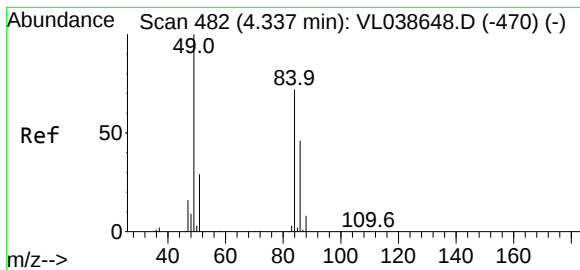
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#19
Isopropyl Alcohol
Concen: 0.466 ppbv m
RT: 3.960 min Scan# 365
Delta R.T. 0.003 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

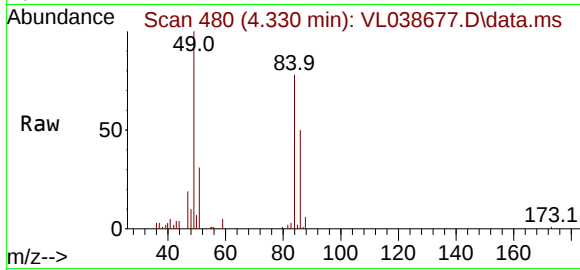
Tgt Ion: 45 Resp: 17717
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5





#20
Methylene Chloride
Concen: 1.191 ppbv
RT: 4.330 min Scan# 480
Delta R.T. -0.007 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

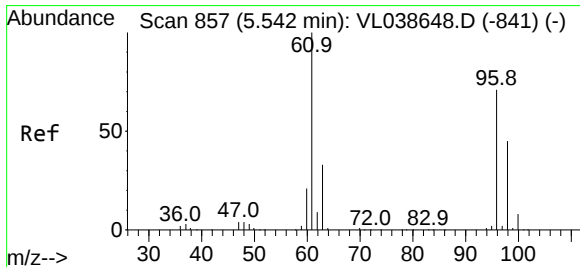
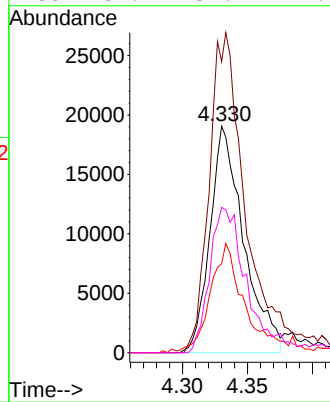
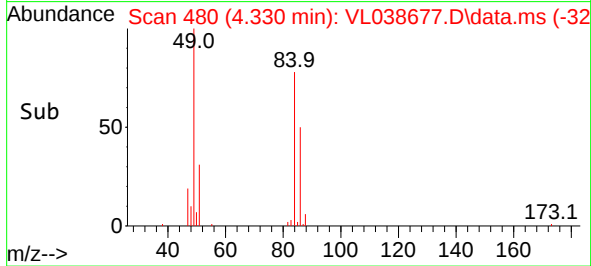
Instrument :
MSVOA_L
ClientSampleId :
COP82



Tgt Ion: 84 Resp: 34410
Ion Ratio Lower Upper
84 100
49 128.5 111.2 166.8
51 38.3 32.8 49.2
86 64.2 51.4 77.0

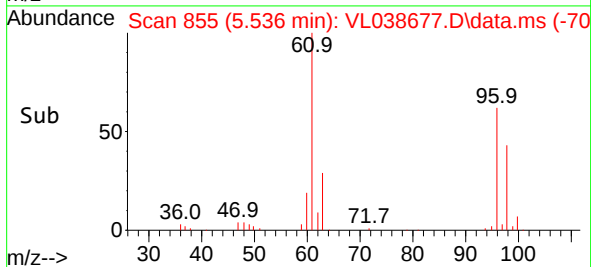
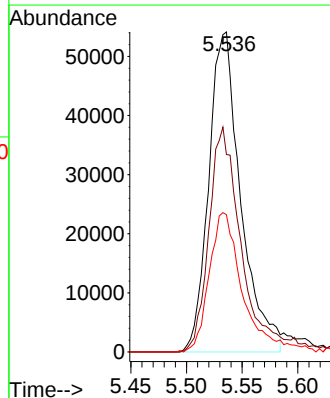
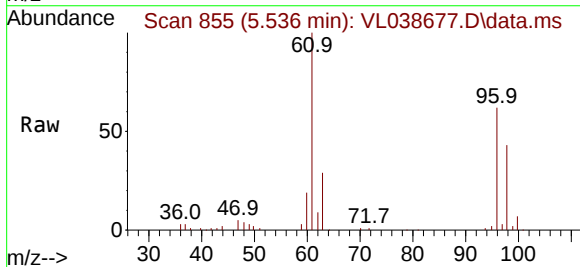
Manual Integrations
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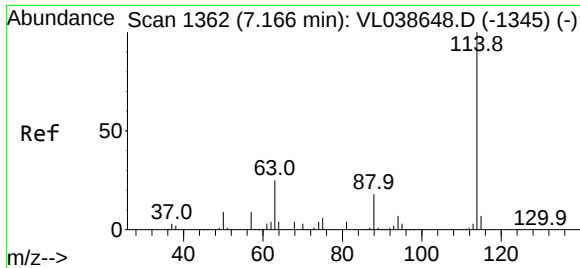
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#31
cis-1,2-Dichloroethene
Concen: 1.490 ppbv
RT: 5.536 min Scan# 855
Delta R.T. -0.007 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

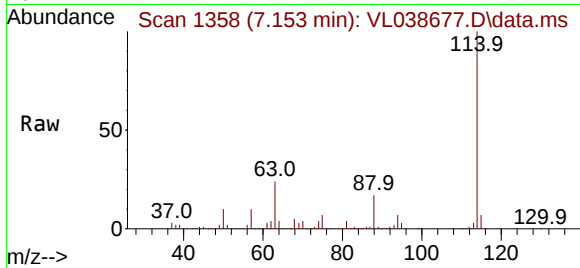
Tgt Ion: 61 Resp: 108337
Ion Ratio Lower Upper
61 100
96 61.7 56.6 84.8
98 42.4 36.3 54.5





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.153 min Scan# 114
Delta R.T. -0.013 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

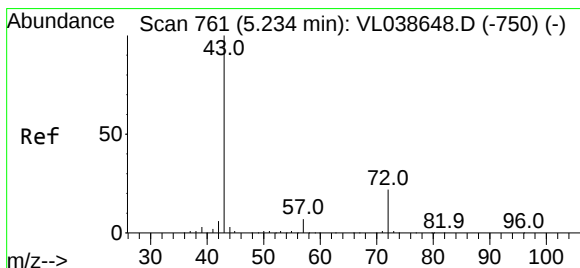
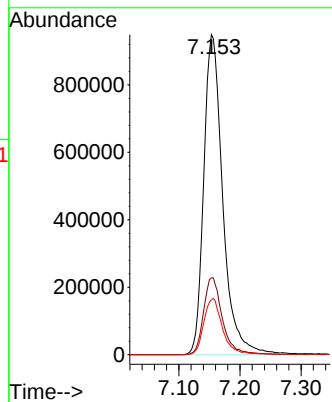
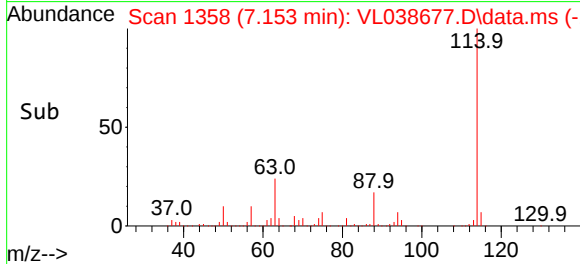
Instrument :
MSVOA_L
ClientSampleId :
COP82



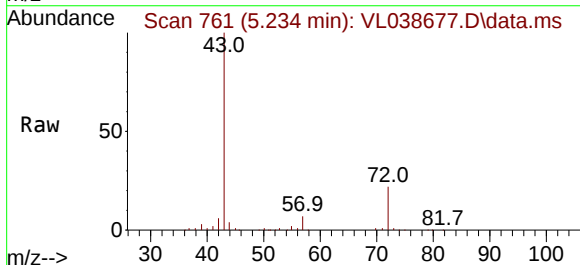
Tgt Ion:114 Resp: 204908
Ion Ratio Lower Upper
114 100
63 24.1 19.4 29.0
88 17.4 13.9 20.9

Manual Integrations
APPROVED

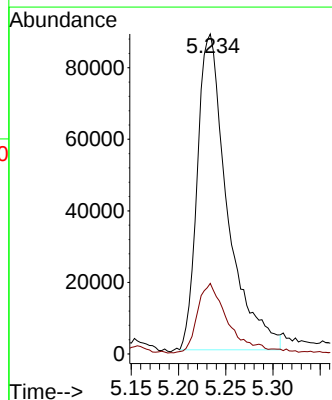
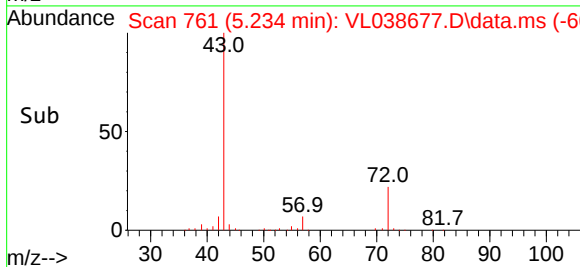
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Supervised By :Mahesh Dadoda 03/24/2022

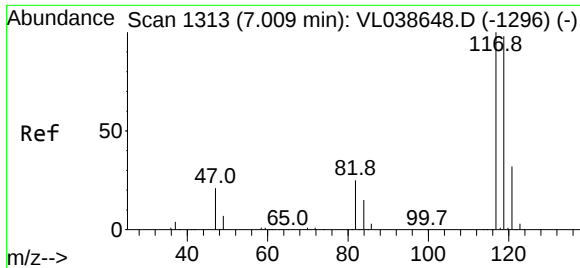


#34
2-Butanone
Concen: 2.415 ppbv
RT: 5.234 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56



Tgt Ion: 43 Resp: 195838
Ion Ratio Lower Upper
43 100
72 25.1 17.8 26.8





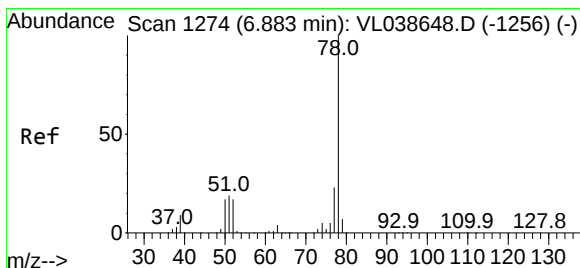
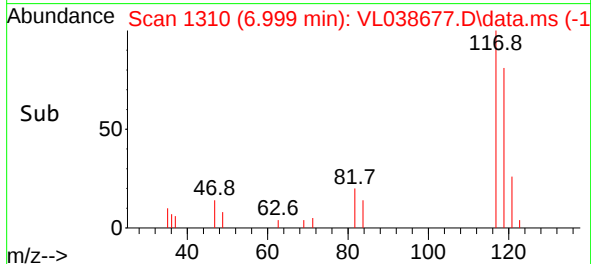
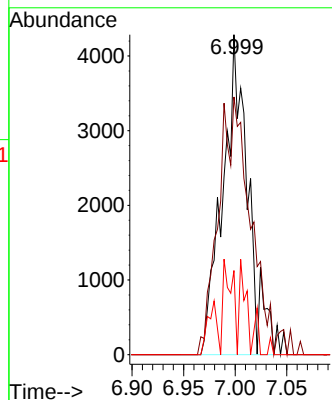
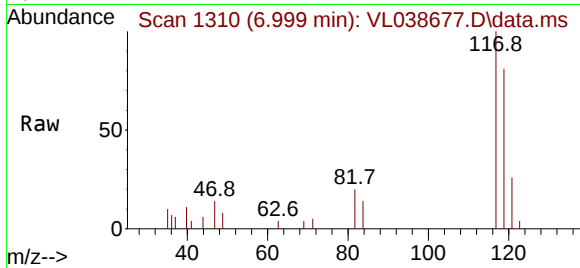
#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 6.999 min Scan# 117
Delta R.T. -0.010 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

Instrument :
MSVOA_L
ClientSampleId :
COP82

Tgt Ion: 117 Resp: 734
Ion Ratio Lower Upper
117 100
119 80.6 78.1 117.1
121 26.3 25.8 38.6

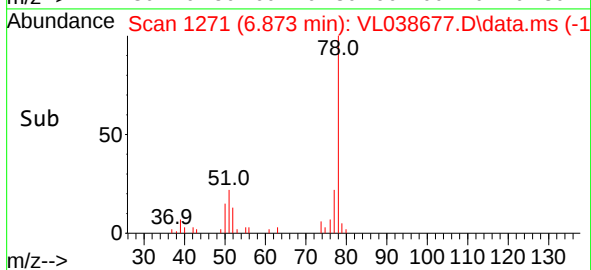
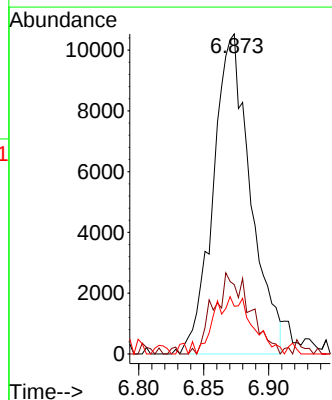
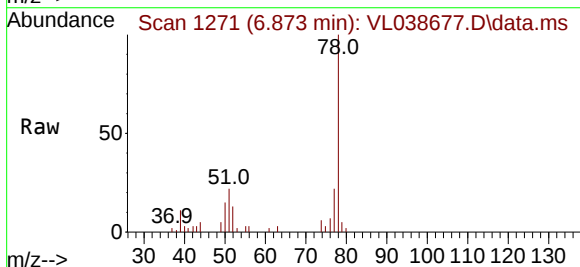
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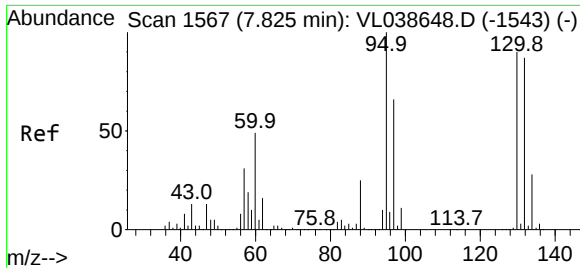
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022



#36
Benzene
Concen: 0.133 ppbv
RT: 6.873 min Scan# 1271
Delta R.T. -0.010 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

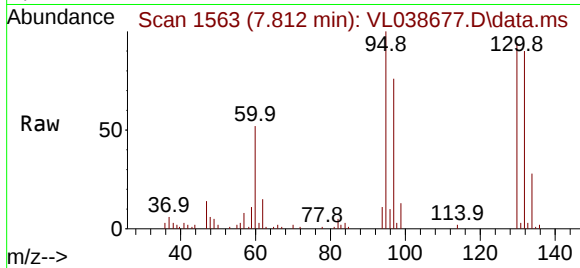
Tgt Ion: 78 Resp: 21002
Ion Ratio Lower Upper
78 100
77 21.6 18.1 27.1
50 11.9 13.6 20.4#





#38
 Trichloroethene
 Concen: 0.804 ppbv
 RT: 7.812 min Scan# 11
 Delta R.T. -0.013 min
 Lab File: VL038677.D
 Acq: 22 Mar 2022 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P82

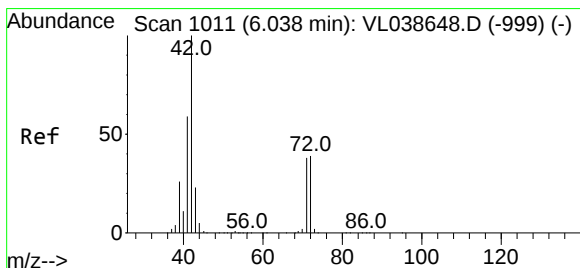
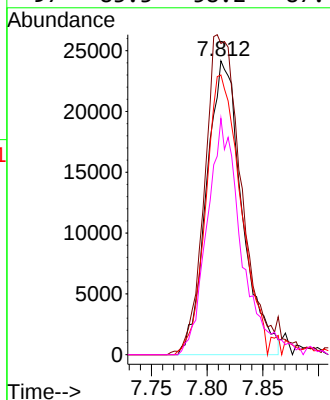
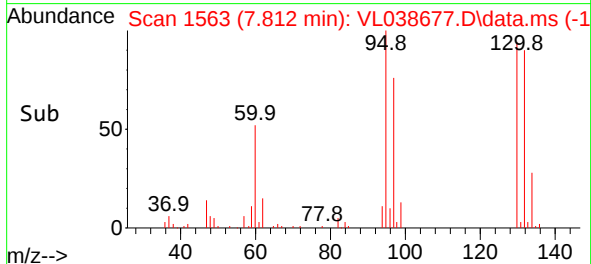


Tgt Ion:130 Resp: 5329

Ion	Ratio	Lower	Upper
130	100		
95	104.8	88.9	133.3
132	97.1	77.4	116.0
97	83.3	58.2	87.4

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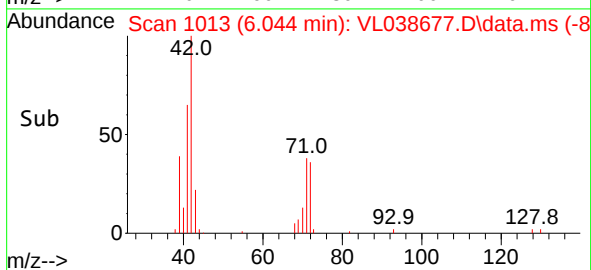
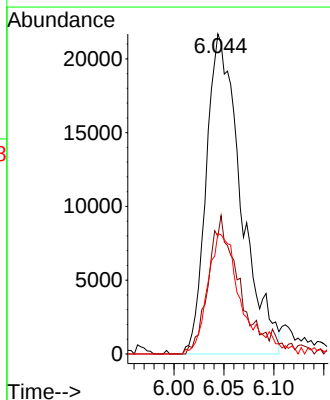
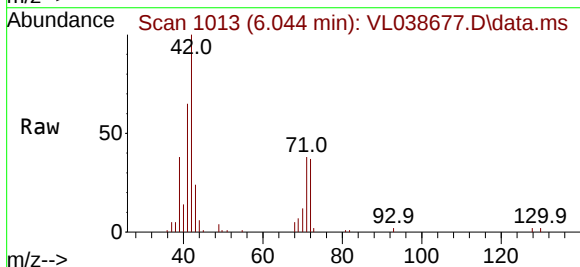
Reviewed By :Semsettin Yesilyurt 03/24/2022
 Supervised By :Mahesh Dadoda 03/24/2022

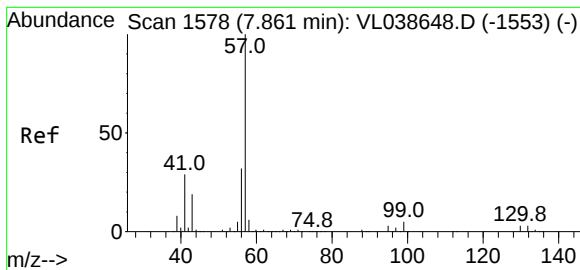


#41
 Tetrahydrofuran
 Concen: 0.869 ppbv m
 RT: 6.044 min Scan# 1013
 Delta R.T. 0.006 min
 Lab File: VL038677.D
 Acq: 22 Mar 2022 8:56

Tgt Ion: 42 Resp: 52462

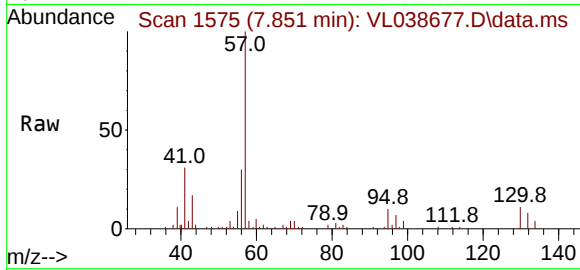
Ion	Ratio	Lower	Upper
42	100		
72	41.3	32.5	48.7
71	36.8	31.4	47.2





#44
2,2,4-Trimethylpentane
Concen: 0.272 ppbv
RT: 7.851 min Scan# 1575
Delta R.T. -0.010 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56

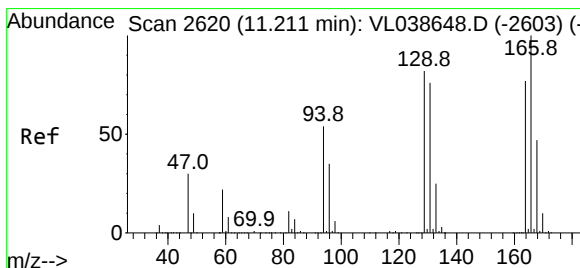
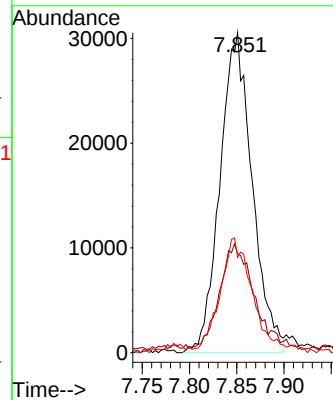
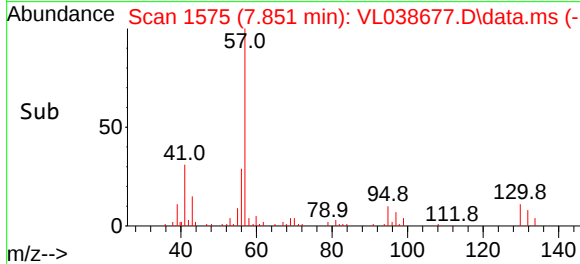
Instrument : MSVOA_L
ClientSampleId : C0P82



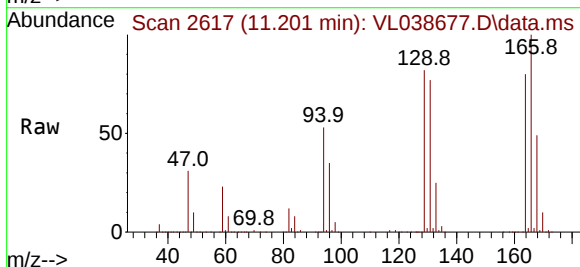
Tgt Ion: 57 Resp: 72310
Ion Ratio Lower Upper
57 100
41 39.1 23.0 34.4
56 39.4 25.3 37.9

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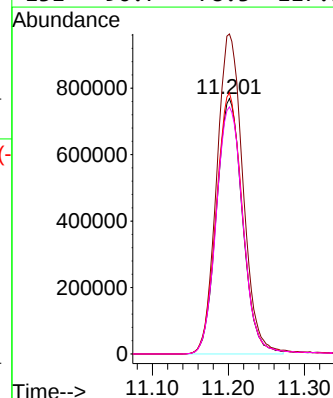
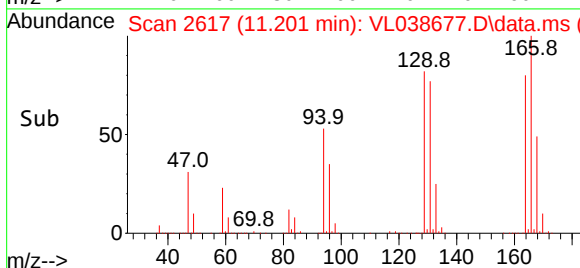
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/24/2022

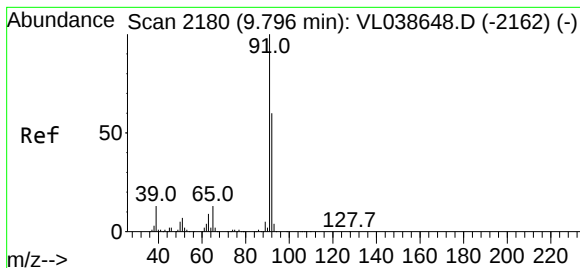


#52
Tetrachloroethene
Concen: 31.507 ppbv
RT: 11.201 min Scan# 2617
Delta R.T. -0.010 min
Lab File: VL038677.D
Acq: 22 Mar 2022 8:56



Tgt Ion:164 Resp: 1823363
Ion Ratio Lower Upper
164 100
166 125.3 103.3 154.9
129 102.3 85.2 127.8
131 96.7 78.3 117.5





#53

Toluene

Concen: 6.386 ppbv

RT: 9.783 min Scan# 2180

Delta R.T. -0.013 min

Lab File: VL038677.D

Acq: 22 Mar 2022 8:56

Instrument :

MSVOA_L

ClientSampleId :

COP82

Tgt Ion: 91 Resp: 108507

Ion Ratio Lower Upper

91 100

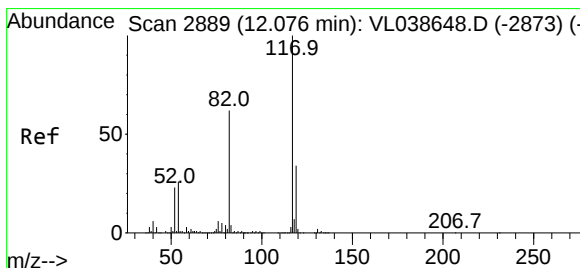
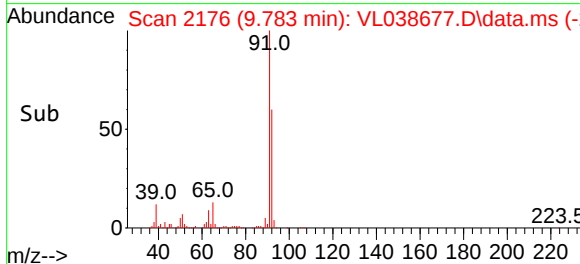
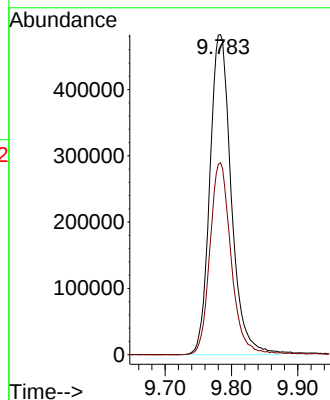
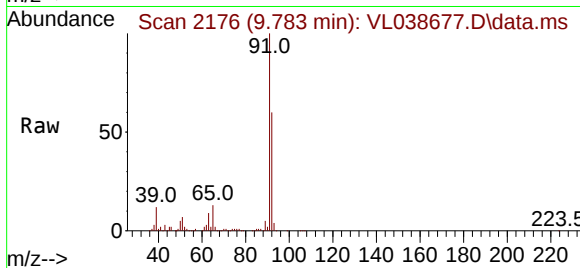
92 59.6 48.7 73.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/24/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.060 min Scan# 2884

Delta R.T. -0.016 min

Lab File: VL038677.D

Acq: 22 Mar 2022 8:56

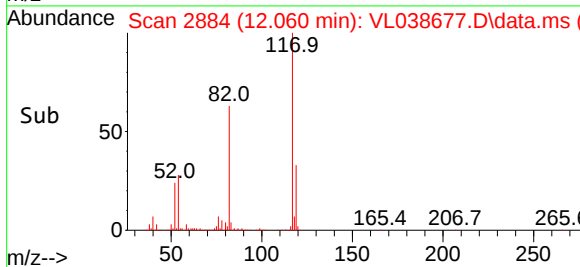
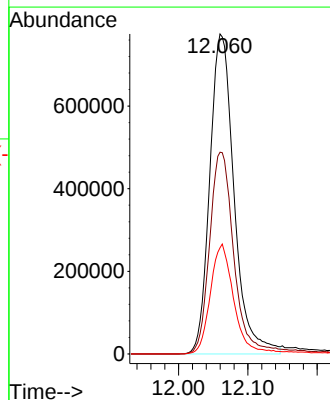
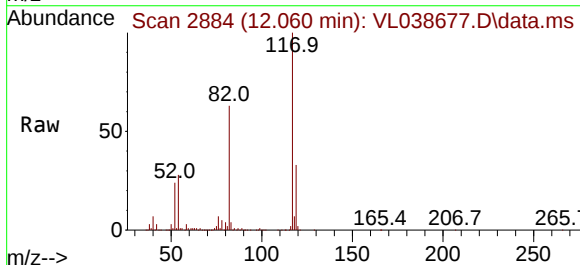
Tgt Ion:117 Resp: 1890822

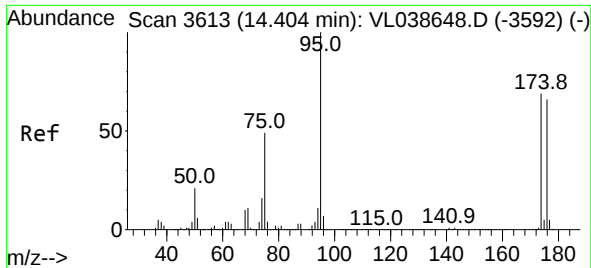
Ion Ratio Lower Upper

117 100

82 65.8 51.6 77.4

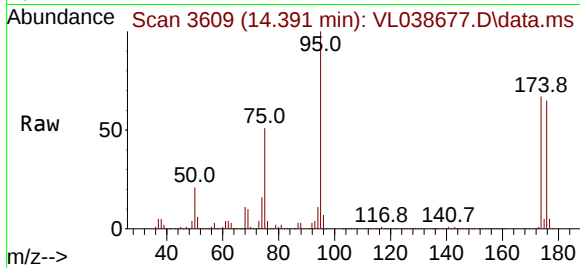
119 34.4 26.9 40.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.512 ppbv
 RT: 14.391 min Scan# 30
 Delta R.T. -0.013 min
 Lab File: VL038677.D
 Acq: 22 Mar 2022 8:56

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P82



Tgt Ion: 95 Resp: 137888
 Ion Ratio Lower Upper
 95 100
 174 72.9 56.1 84.1
 175 5.3 4.2 6.2

Manual Integrations
 APPROVED

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

