

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
 Data File : VL038247.D
 Acq On : 30 Dec 2021 00:33
 Operator : SY/AP
 Sample : M5252-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

Reviewed By :Amit
 Patel

12/30/2021
 Supervised By :Semsettin
 Yesilyurt

Quant Time: Dec 30 06:20:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Dec 2
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

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

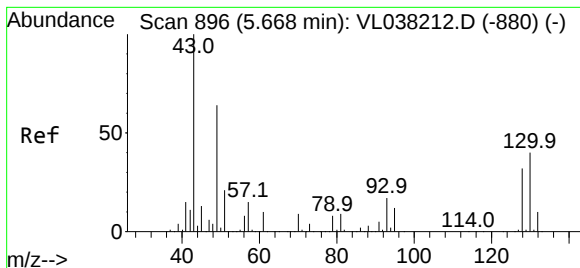
Internal Standards						
1) Bromochloromethane	5.674	49	662203	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.182	114	1612436	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.089	117	1382340	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.416	95	1154192	10.835	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.400%

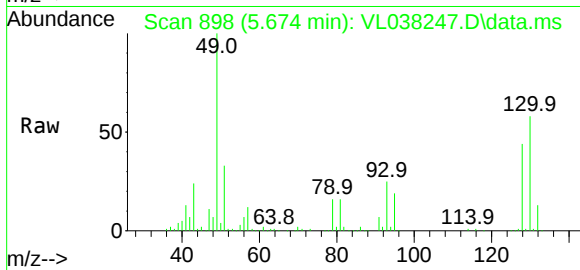
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.060	85	58975	0.473	ppbv	93
3) Chlorodifluoromethane	3.002	51	78101m	0.561	ppbv	
4) Chloromethane	3.153	50	20080	0.416	ppbv	92
9) Propene	3.031	41	114173m	2.363	ppbv	
10) Heptane	8.131	43	44443m	0.363	ppbv	
11) Trichlorofluoromethane	3.960	101	68125	0.594	ppbv	96
13) Ethanol	3.629	45	8343900	1018.606	ppbv #	100
15) Acetone	3.854	43	5493701	82.663	ppbv	98
19) Isopropyl Alcohol	3.992	45	3889290	93.825	ppbv	99
20) Methylene Chloride	4.353	84	436615	11.636	ppbv	94
26) Hexane	5.693	57	376080	4.163	ppbv #	55
30) Cyclohexane	7.134	84	11245m	0.141	ppbv	
32) 1,1,1-Trichloroethane	6.516	97	12472m	0.094	ppbv	
34) 2-Butanone	5.253	43	36488	0.753	ppbv	98
35) Carbon Tetrachloride	7.024	117	9049	0.091	ppbv	92
36) Benzene	6.893	78	50036m	0.333	ppbv	
38) Trichloroethene	7.838	130	341481	5.966	ppbv	95
44) 2,2,4-Trimethylpentane	7.870	57	134566	0.527	ppbv #	83
52) Tetrachloroethene	11.227	164	152796	2.752	ppbv	98
53) Toluene	9.809	91	160097	0.923	ppbv	100
58) Ethyl Benzene	12.712	91	166249	0.775	ppbv	94
59) m/p-Xylene	12.970	91	538822	2.938	ppbv	96
60) o-Xylene	13.693	91	111794	0.658	ppbv	99
61) Styrene	13.529	104	13343m	0.155	ppbv	
74) 1,2,4-Trimethylbenzene	16.767	105	29833m	0.162	ppbv	

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.674 min Scan# 896
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
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ClientSampleId :
IA-2



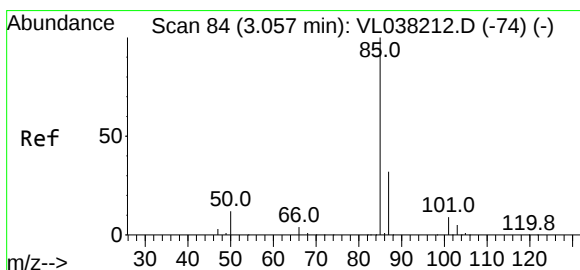
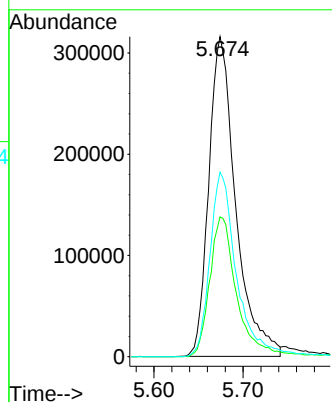
Tgt Ion: 49 Resp: 66220
Ion Ratio Lower Upper
49 100
128 44.9 26.9 80.6
130 58.2 32.3 96.9

Manual Integrations
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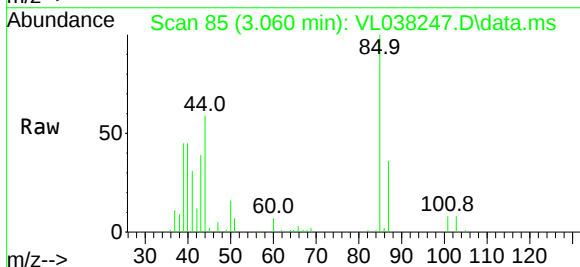
Reviewed By :Amit
Patel

12/30/2021
Supervised By :Semsettin
Yesilyurt

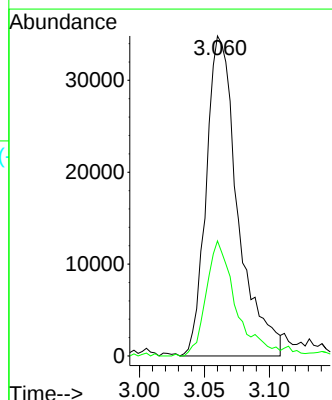
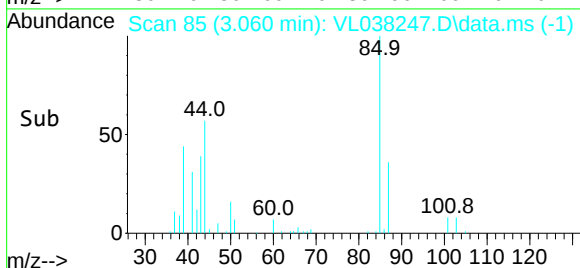
01/02/2022

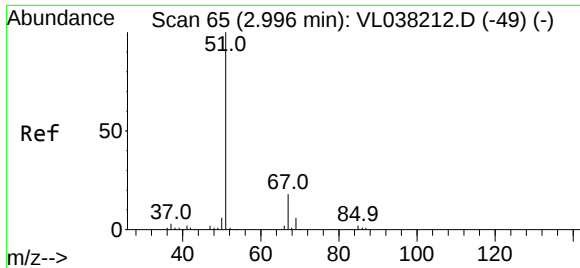


#2
Dichlorodifluoromethane
Concen: 0.473 ppbv
RT: 3.060 min Scan# 85
Delta R.T. 0.003 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33



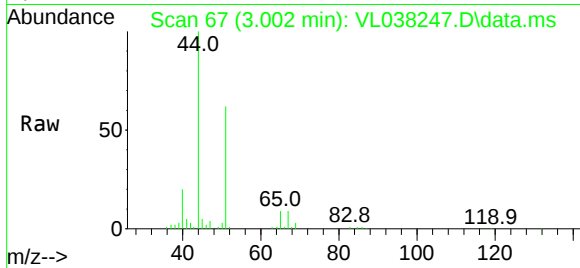
Tgt Ion: 85 Resp: 58975
Ion Ratio Lower Upper
85 100
87 35.9 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.561 ppbv
RT: 3.002 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



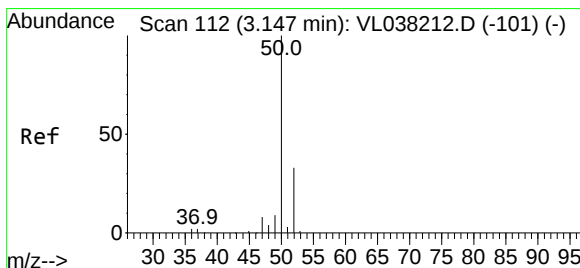
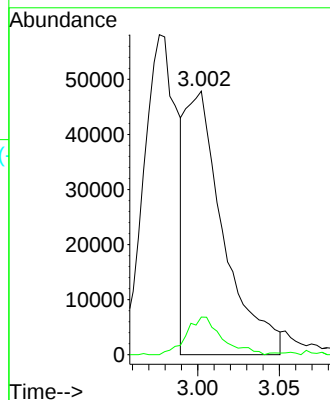
Tgt Ion: 51 Resp: 7810
Ion Ratio Lower Upper
51 100
67 13.5 14.0 21.0

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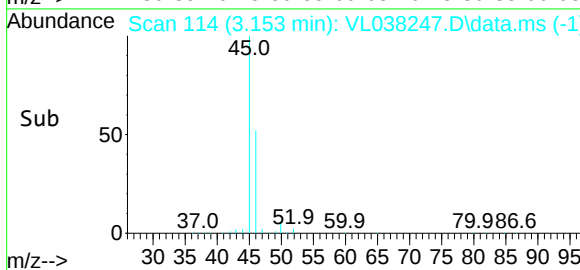
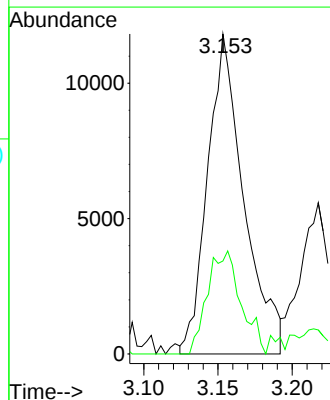
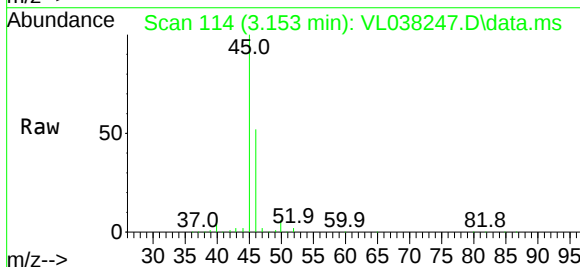
12/30/2021
Supervised By :Semsettin
Yesilyurt

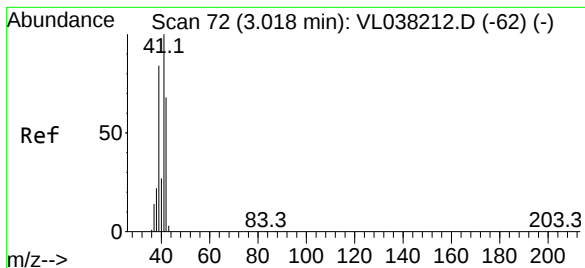
01/02/2022



#4
Chloromethane
Concen: 0.416 ppbv
RT: 3.153 min Scan# 114
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

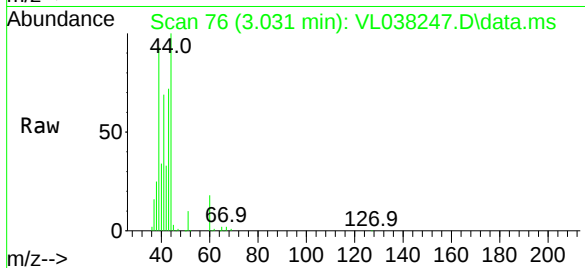
Tgt Ion: 50 Resp: 20080
Ion Ratio Lower Upper
50 100
52 28.2 26.2 39.2





#9
Propene
Concen: 2.363 ppbv m
RT: 3.031 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



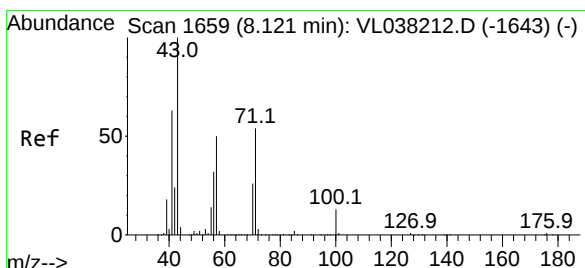
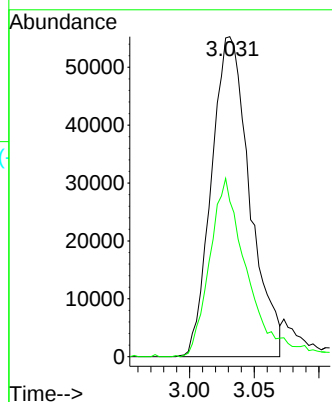
Tgt Ion: 41 Resp: 11417
Ion Ratio Lower Upper
41 100
42 183.0 55.5 83.3

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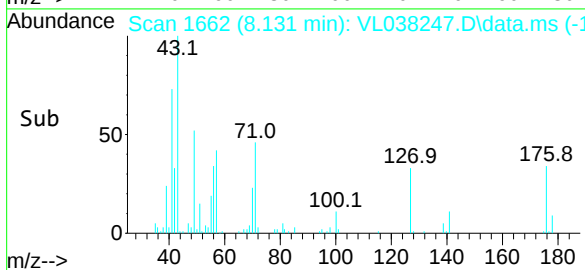
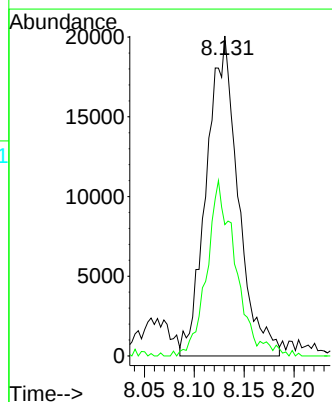
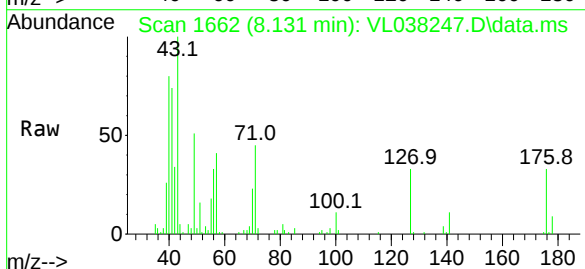
12/30/2021
Supervised By :Semsettin
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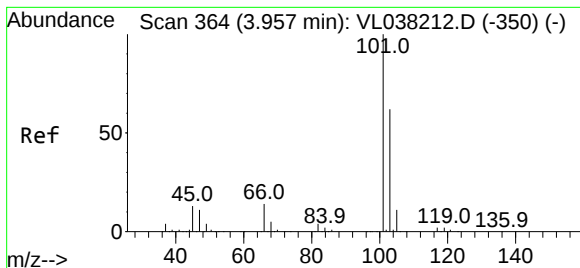
01/02/2022



#10
Heptane
Concen: 0.363 ppbv m
RT: 8.131 min Scan# 1662
Delta R.T. 0.010 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Tgt Ion: 43 Resp: 44443
Ion Ratio Lower Upper
43 100
57 0.0 40.3 60.5





#11
Trichlorofluoromethane
Concen: 0.594 ppbv
RT: 3.960 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2

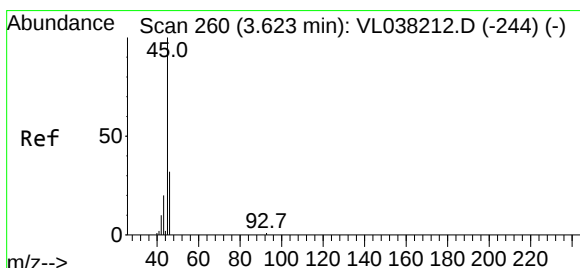
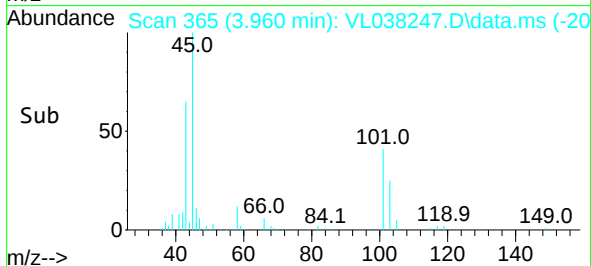
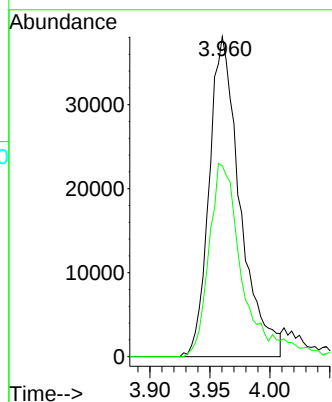
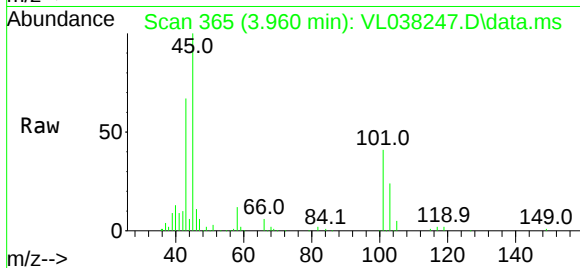
Tgt Ion:101 Resp: 6812
Ion Ratio Lower Upper
101 100
103 59.7 49.9 74.9

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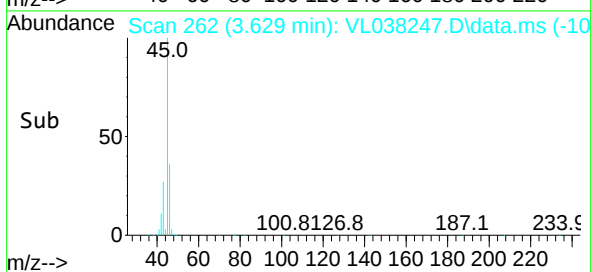
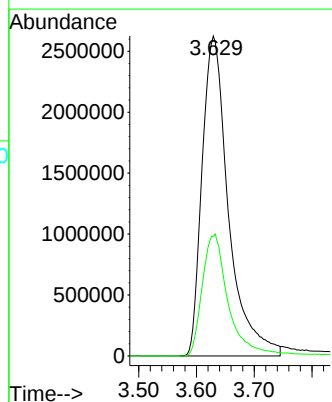
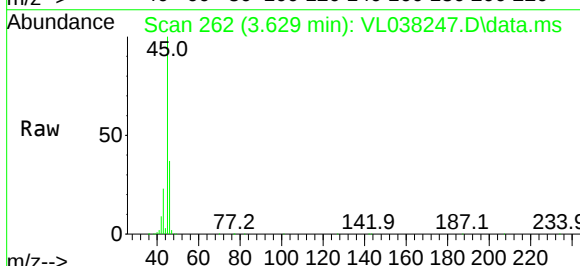
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Supervised By :Semsettin
Yesilyurt

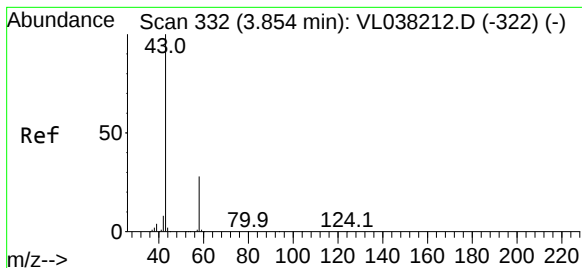
01/02/2022



#13
Ethanol
Concen: 1018.606 ppbv
RT: 3.629 min Scan# 262
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

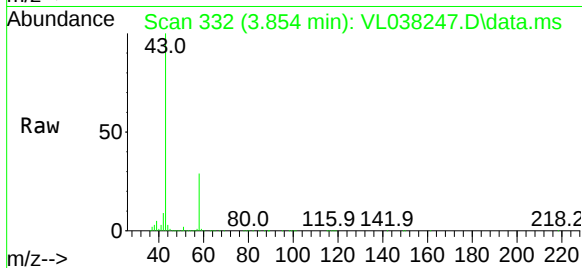
Tgt Ion: 45 Resp: 8343900
Ion Ratio Lower Upper
45 100
46 38.6 0.0 0.0#





#15
Acetone
Concen: 82.663 ppbv
RT: 3.854 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



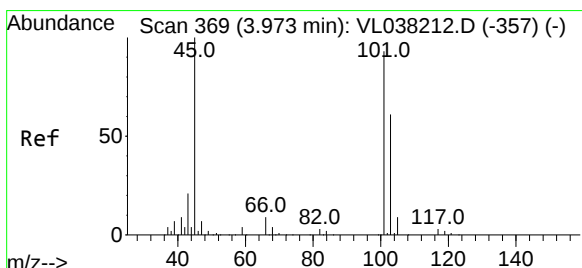
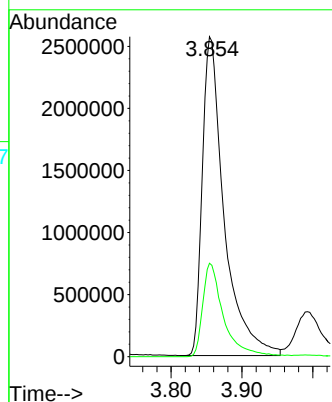
Tgt Ion: 43 Resp: 549370
Ion Ratio Lower Upper
43 100
58 28.0 23.3 34.9

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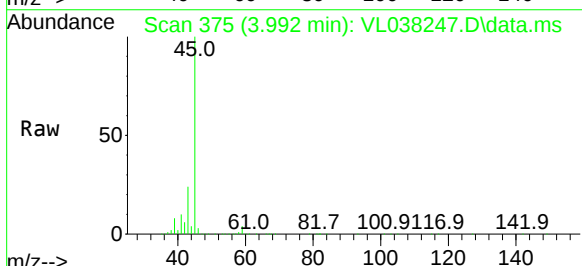
Reviewed By :Amit
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Yesilyurt

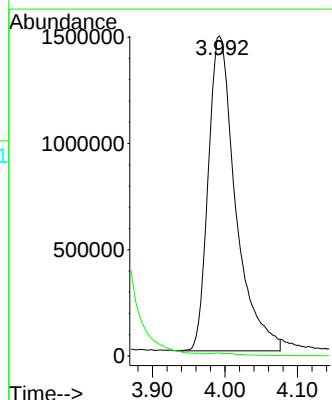
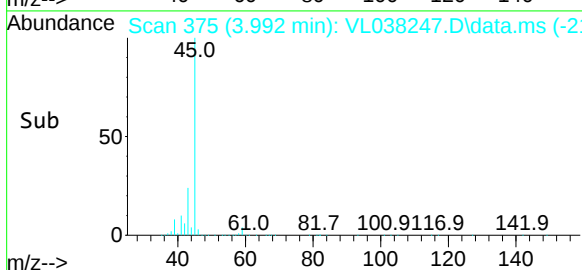
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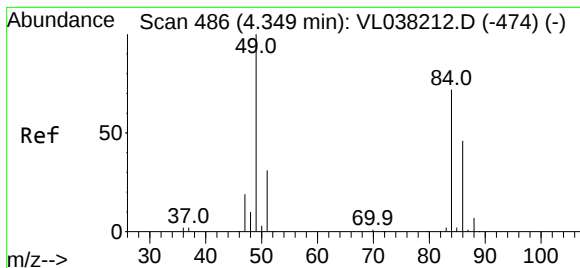


#19
Isopropyl Alcohol
Concen: 93.825 ppbv
RT: 3.992 min Scan# 375
Delta R.T. 0.019 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33



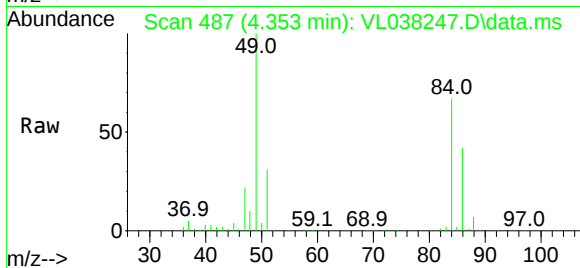
Tgt Ion: 45 Resp: 3889290
Ion Ratio Lower Upper
45 100
58 39.6 32.4 48.6





#20
Methylene Chloride
Concen: 11.636 ppbv
RT: 4.353 min Scan# 487
Delta R.T. 0.003 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



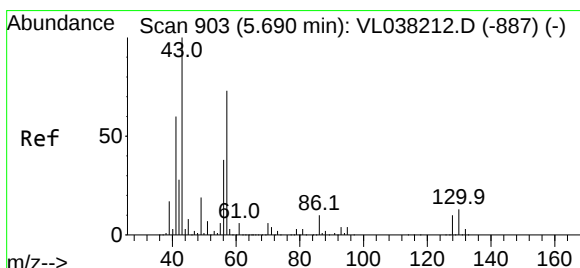
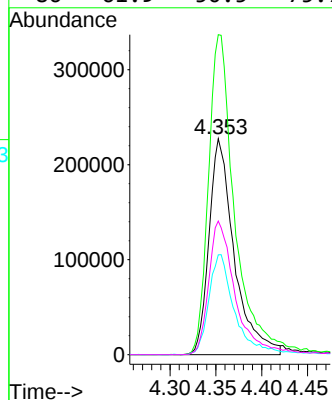
Tgt Ion: 84 Resp: 436615
Ion Ratio Lower Upper
84 100
49 148.2 110.6 166.0
51 46.2 34.2 51.2
86 61.9 50.5 75.7

Manual Integrations
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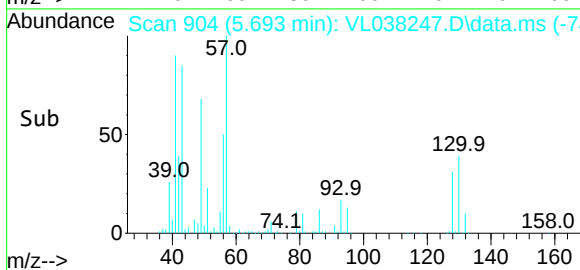
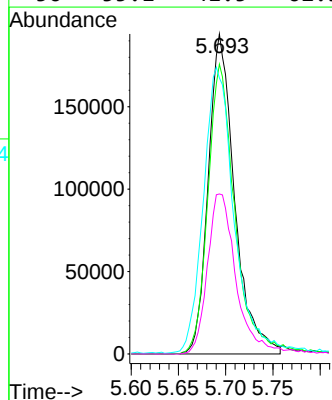
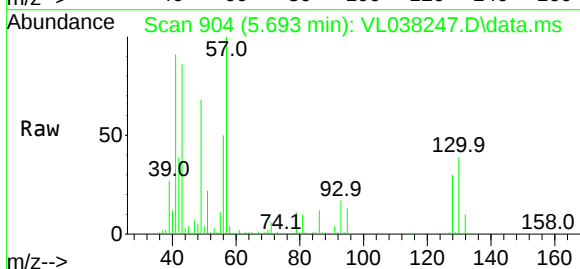
12/30/2021
Supervised By :Semsettin
Yesilyurt

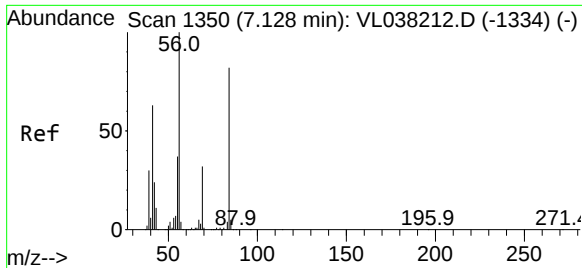
01/02/2022



#26
Hexane
Concen: 4.163 ppbv
RT: 5.693 min Scan# 904
Delta R.T. 0.003 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

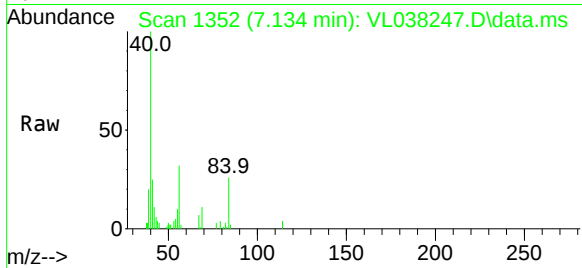
Tgt Ion: 57 Resp: 376080
Ion Ratio Lower Upper
57 100
41 94.1 69.0 103.6
43 104.9 171.2 256.8#
56 55.1 41.5 62.3





#30
Cyclohexane
Concen: 0.141 ppbv m
RT: 7.134 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



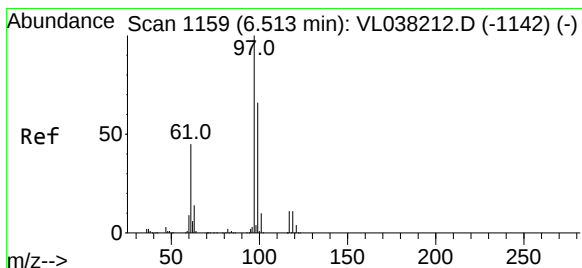
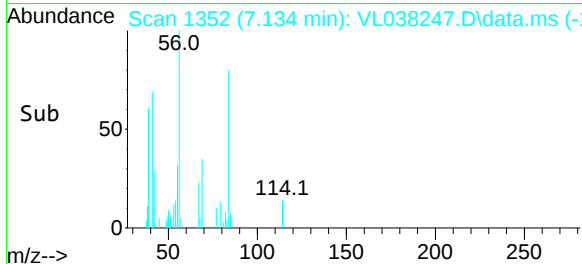
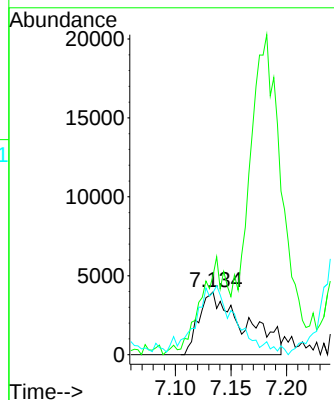
Tgt Ion: 84 Resp: 1124
Ion Ratio Lower Upper
84 100
56 0.0 105.2 157.8
41 88.3 63.2 94.8

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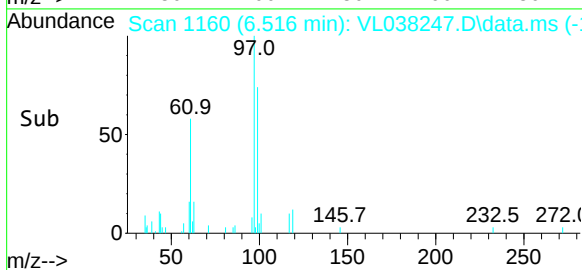
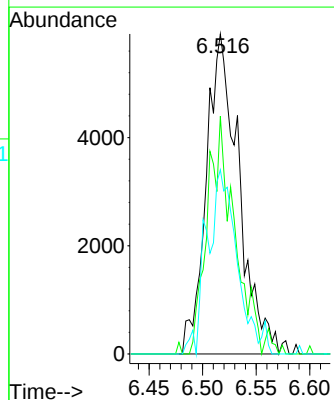
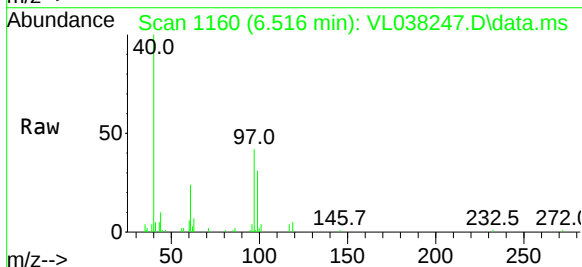
12/30/2021
Supervised By :Semsettin
Yesilyurt

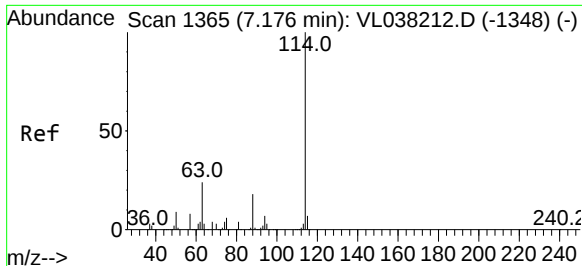
01/02/2022



#32
1,1,1-Trichloroethane
Concen: 0.094 ppbv m
RT: 6.516 min Scan# 1160
Delta R.T. 0.003 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

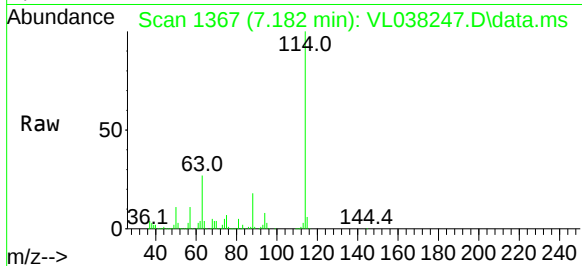
Tgt Ion: 97 Resp: 12472
Ion Ratio Lower Upper
97 100
99 64.0 52.4 78.6
61 54.0 37.2 55.8





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.182 min Scan# 114
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



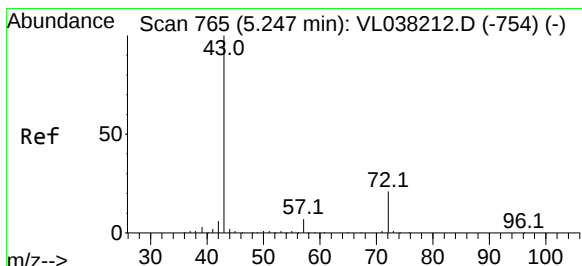
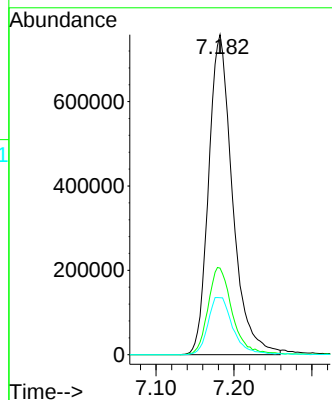
Tgt Ion:114 Resp: 1612430
Ion Ratio Lower Upper
114 100
63 27.9 19.7 29.5
88 18.8 14.3 21.5

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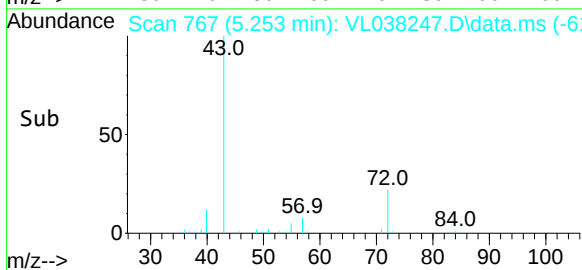
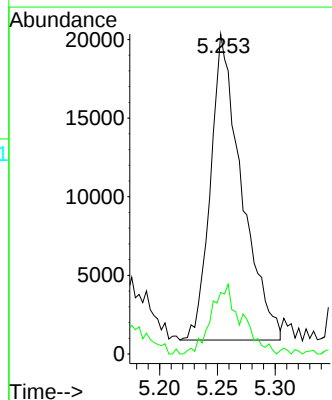
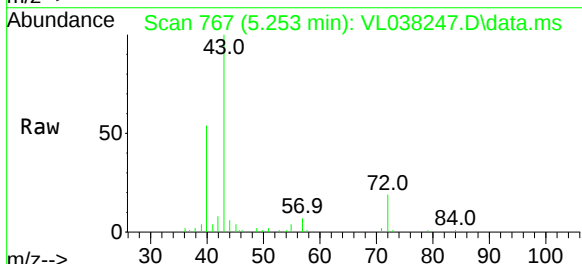
12/30/2021
Supervised By :Semsettin
Yesilyurt

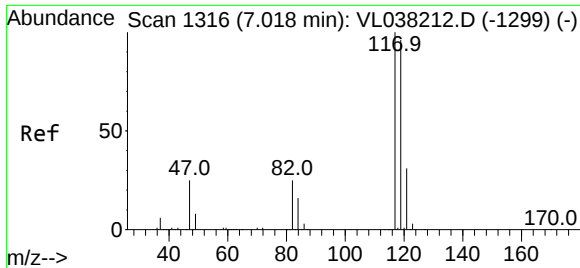
01/02/2022



#34
2-Butanone
Concen: 0.753 ppbv
RT: 5.253 min Scan# 767
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

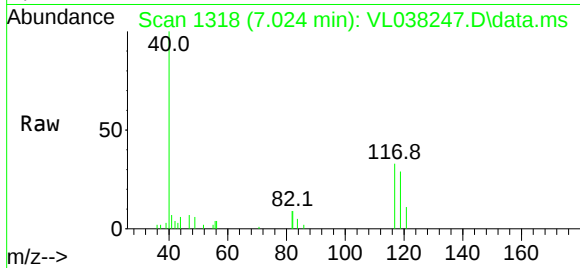
Tgt Ion: 43 Resp: 36488
Ion Ratio Lower Upper
43 100
72 22.1 18.3 27.5





#35
Carbon Tetrachloride
Concen: 0.091 ppbv
RT: 7.024 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



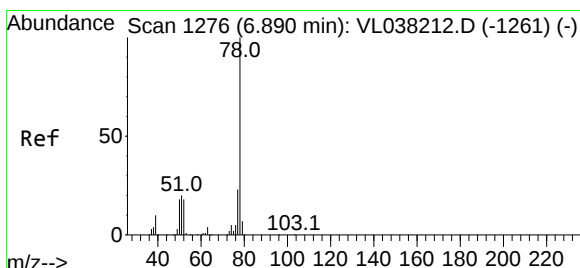
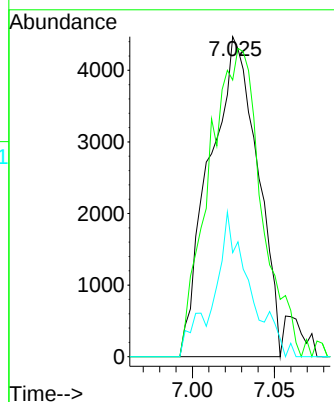
Tgt Ion:117 Resp: 9049
Ion Ratio Lower Upper
117 100
119 86.4 76.7 115.1
121 32.5 25.0 37.4

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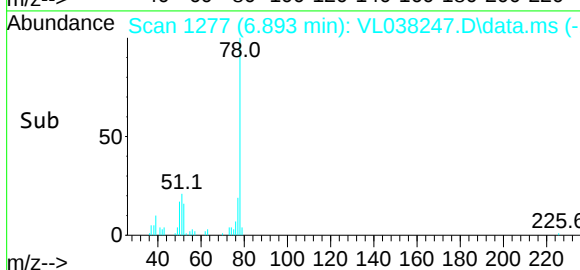
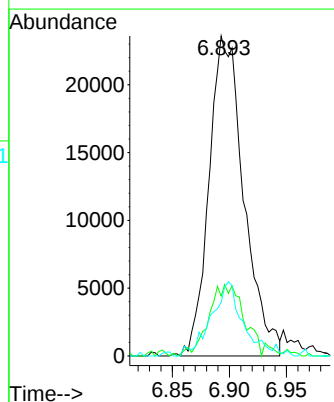
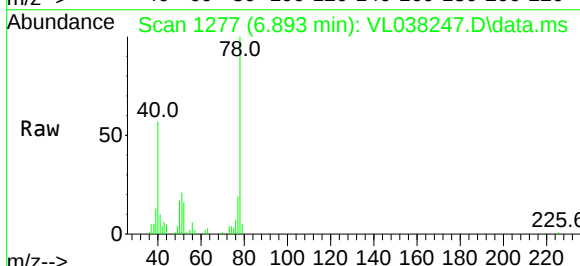
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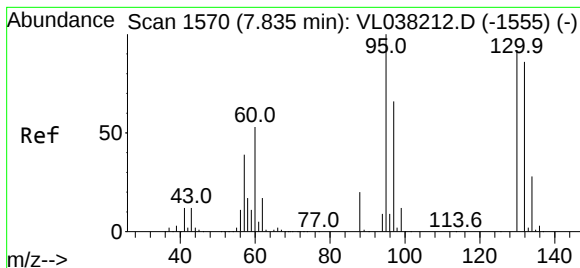
01/02/2022



#36
Benzene
Concen: 0.333 ppbv m
RT: 6.893 min Scan# 1277
Delta R.T. 0.003 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

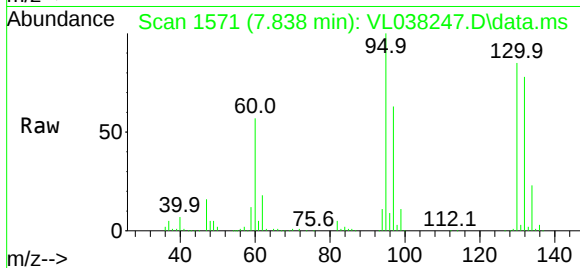
Tgt Ion: 78 Resp: 50036
Ion Ratio Lower Upper
78 100
77 18.7 18.2 27.4
50 16.8 14.3 21.5





#38
Trichloroethene
Concen: 5.966 ppbv
RT: 7.838 min Scan# 1570
Delta R.T. 0.003 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



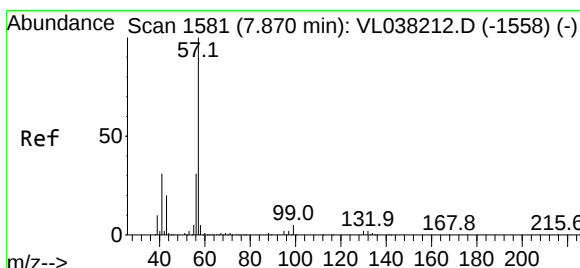
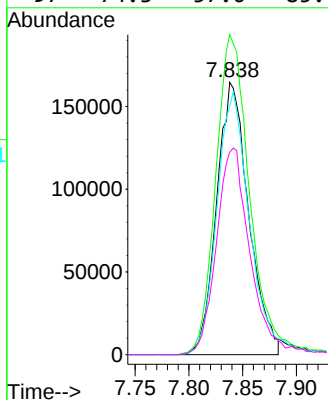
Tgt Ion:130 Resp: 34148
Ion Ratio Lower Upper
130 100
95 117.5 87.0 130.4
132 91.2 75.1 112.7
97 74.3 57.0 85.4

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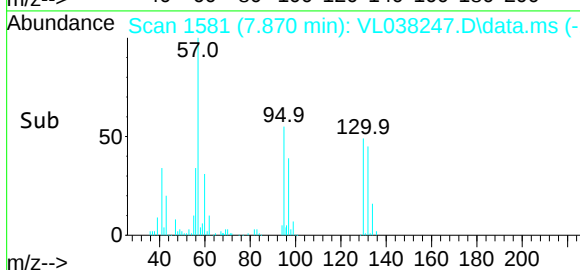
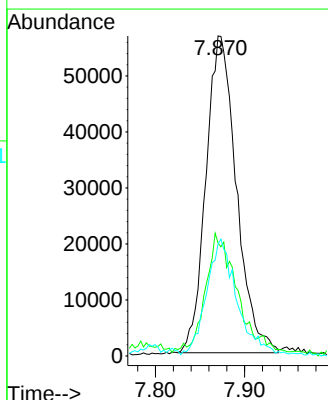
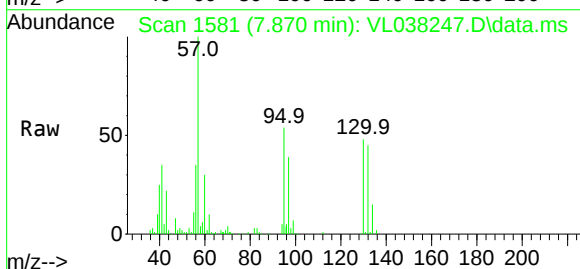
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Supervised By :Semsettin
Yesilyurt

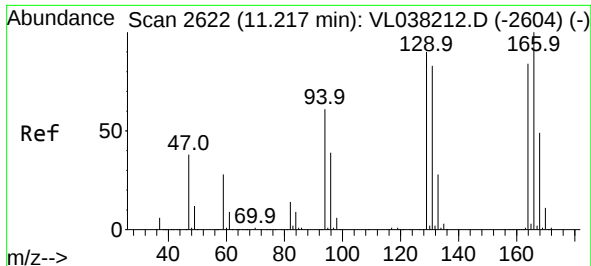
01/02/2022



#44
2,2,4-Trimethylpentane
Concen: 0.527 ppbv
RT: 7.870 min Scan# 1581
Delta R.T. -0.000 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

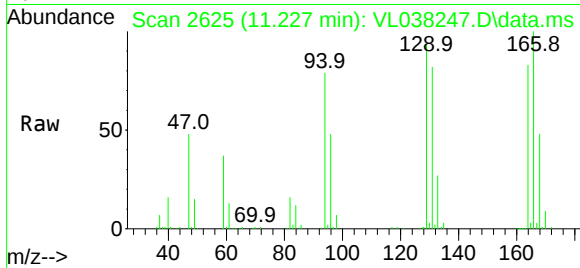
Tgt Ion: 57 Resp: 134566
Ion Ratio Lower Upper
57 100
41 42.3 24.9 37.3#
56 38.5 24.8 37.2#





#52
Tetrachloroethene
Concen: 2.752 ppbv
RT: 11.227 min Scan# 2184
Delta R.T. 0.010 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



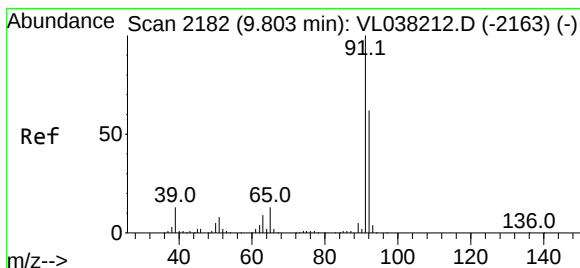
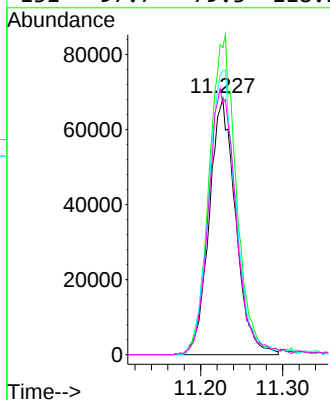
Tgt Ion:164 Resp: 152790
Ion Ratio Lower Upper
164 100
166 119.8 95.6 143.4
129 110.9 85.8 128.8
131 97.7 79.3 118.9

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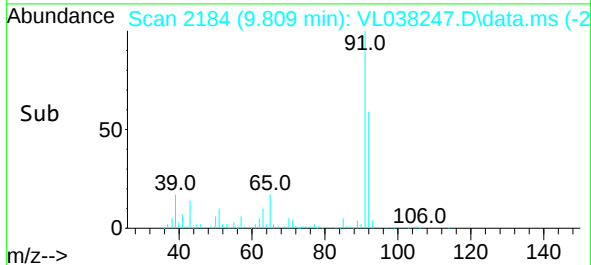
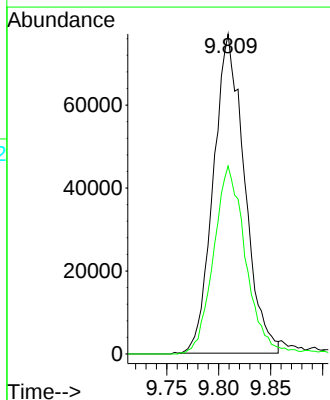
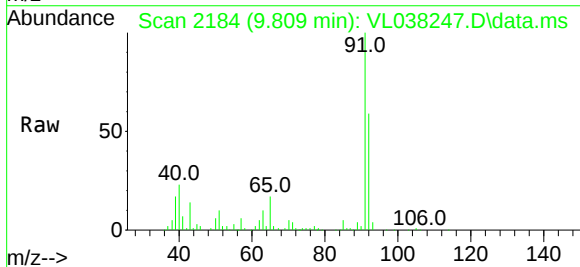
12/30/2021
Supervised By :Semsettin
Yesilyurt

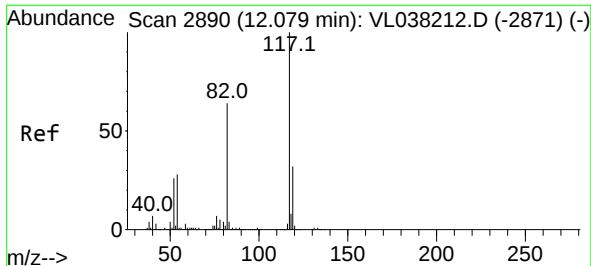
01/02/2022



#53
Toluene
Concen: 0.923 ppbv
RT: 9.809 min Scan# 2184
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

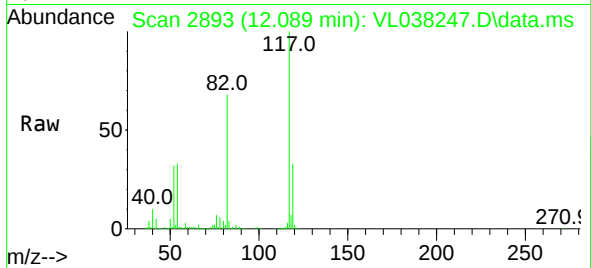
Tgt Ion: 91 Resp: 160097
Ion Ratio Lower Upper
91 100
92 61.4 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.089 min Scan# 2893
Delta R.T. 0.010 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2



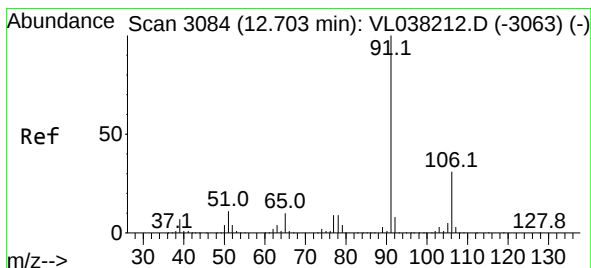
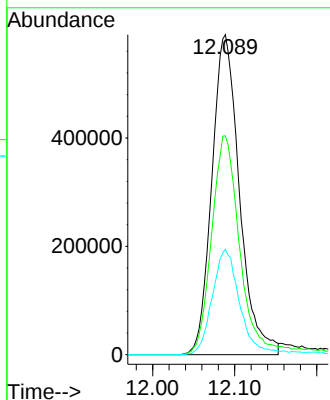
Tgt Ion:117 Resp: 1382340
Ion Ratio Lower Upper
117 100
82 74.3 53.3 79.9
119 34.1 25.5 38.3

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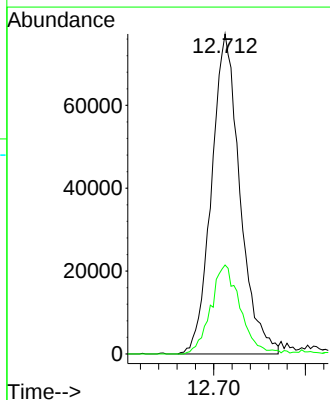
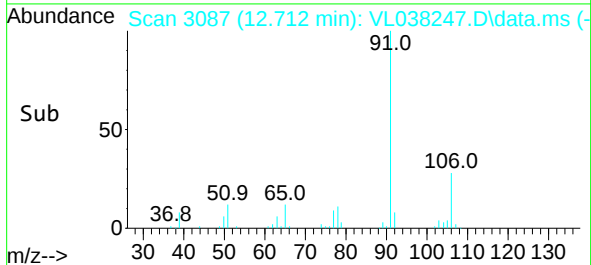
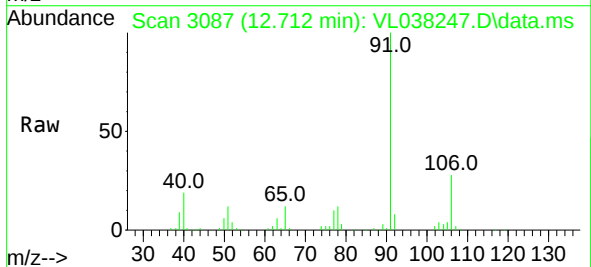
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Supervised By :Semsettin
Yesilyurt

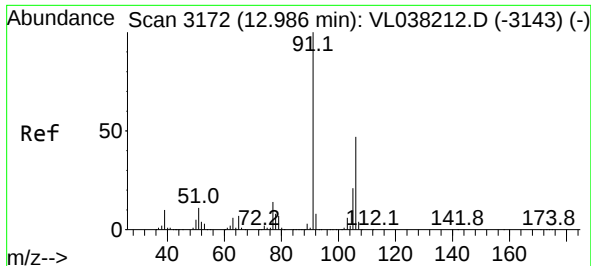
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#58
Ethyl Benzene
Concen: 0.775 ppbv
RT: 12.712 min Scan# 3087
Delta R.T. 0.010 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Tgt Ion: 91 Resp: 166249
Ion Ratio Lower Upper
91 100
106 27.8 25.0 37.4





#59

m/p-Xylene

Concen: 2.938 ppbv

RT: 12.970 min Scan# 3172

Delta R.T. -0.016 min

Lab File: VL038247.D

Acq: 30 Dec 2021 00:33

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tgt Ion: 91 Resp: 53882

Ion Ratio Lower Upper

91 100

106 43.4 36.9 55.3

Manual Integrations

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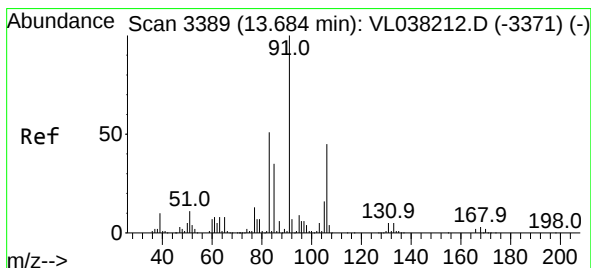
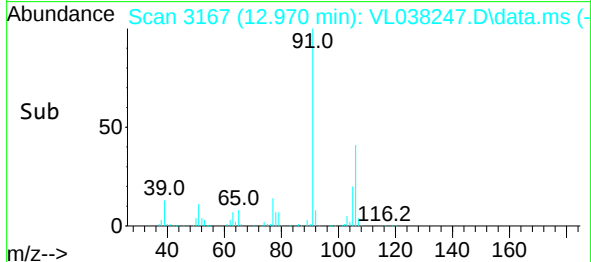
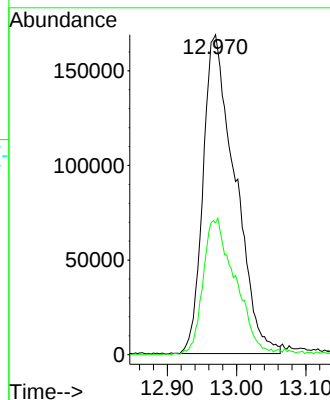
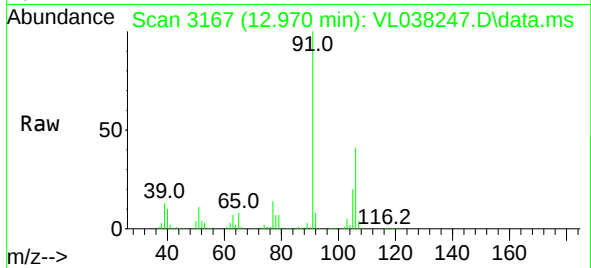
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#60

o-Xylene

Concen: 0.658 ppbv

RT: 13.693 min Scan# 3392

Delta R.T. 0.010 min

Lab File: VL038247.D

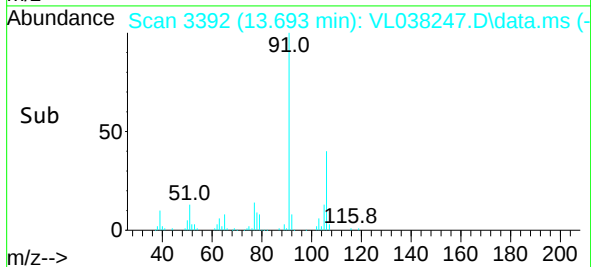
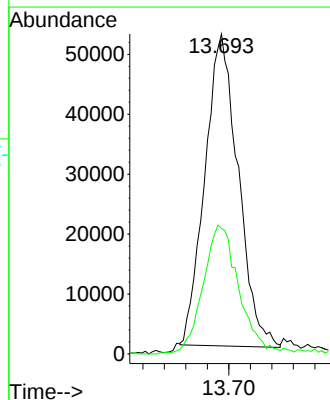
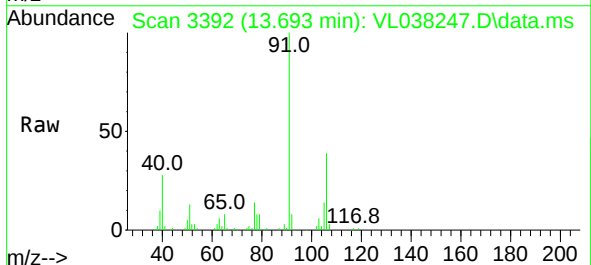
Acq: 30 Dec 2021 00:33

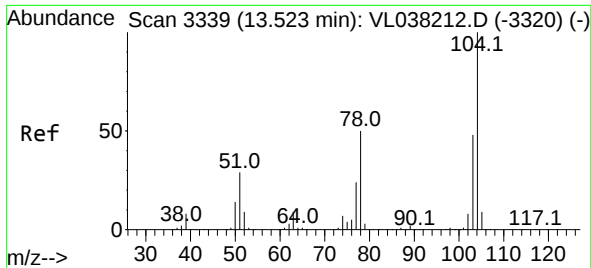
Tgt Ion: 91 Resp: 111794

Ion Ratio Lower Upper

91 100

106 46.1 23.5 70.5





#61
Styrene
Concen: 0.155 ppbv m
RT: 13.529 min Scan# 3339
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
IA-2

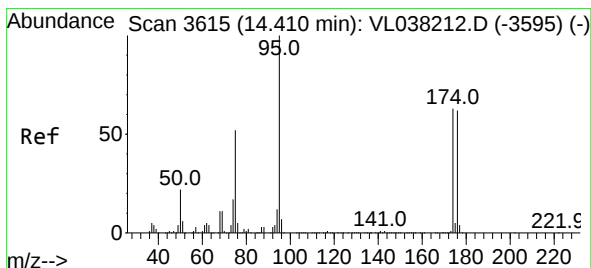
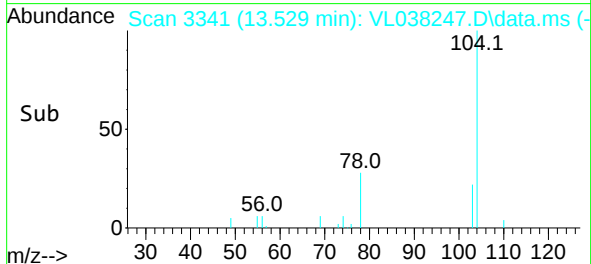
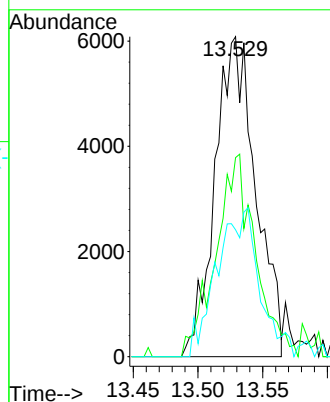
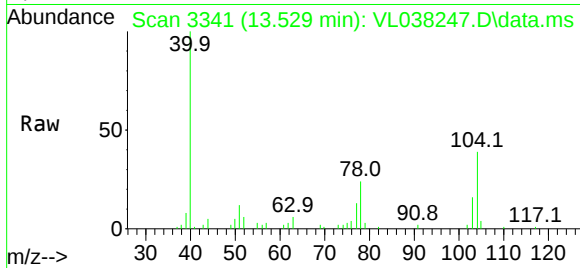
Tgt Ion:104 Resp: 1334
Ion Ratio Lower Upper
104 100
78 61.2 41.0 61.6
103 48.3 38.0 57.0

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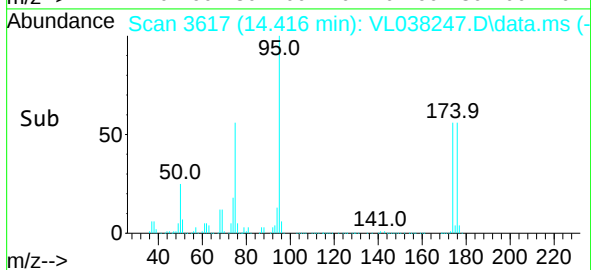
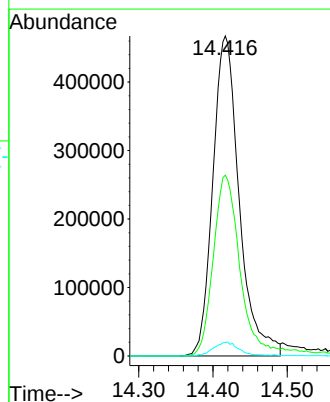
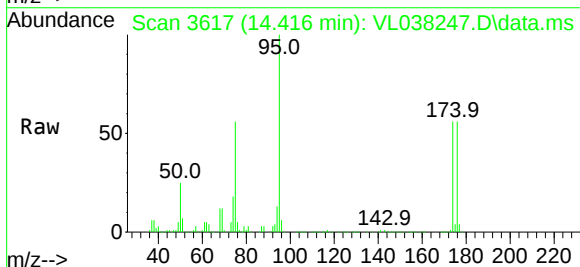
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Supervised By :Semsettin
Yesilyurt

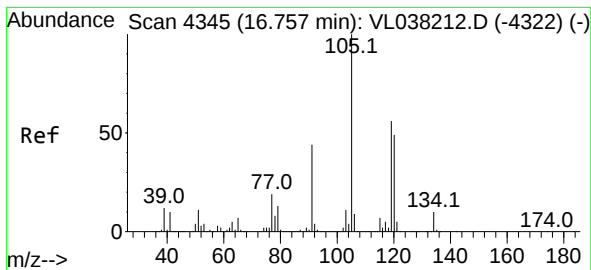
01/02/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.835 ppbv
RT: 14.416 min Scan# 3617
Delta R.T. 0.006 min
Lab File: VL038247.D
Acq: 30 Dec 2021 00:33

Tgt Ion: 95 Resp: 1154192
Ion Ratio Lower Upper
95 100
174 60.2 54.6 81.8
175 4.4 4.1 6.1





#74

1,2,4-Trimethylbenzene

Concen: 0.162 ppbv m

RT: 16.767 min Scan# 4345

Delta R.T. 0.010 min

Lab File: VL038247.D

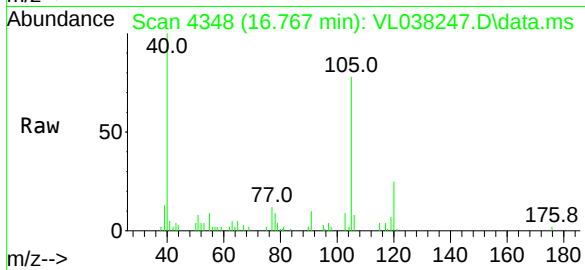
Acq: 30 Dec 2021 00:33

Instrument :

MSVOA_L

ClientSampleId :

IA-2



Tgt Ion:105 Resp: 2983

Ion Ratio Lower Upper

105 100

120 32.7 39.4 59.2

91 13.2 35.0 52.4

77 15.0 15.6 23.4

Manual Integrations

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Patel

12/30/2021

Supervised By :Semsettin
Yesilyurt

01/02/2022

