

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121924\
 Data File : VL041824.D
 Acq On : 19 Dec 2024 17:08
 Operator : SY/MD
 Sample : P5296-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 20 01:45:50 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards								
1) Bromochloromethane			2.793	49	79104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene			3.965	114	180475	10.000	ppbv	0.00
55) Chlorobenzene-d5			8.885	117	190007	10.000	ppbv	0.00
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			10.377	95	159349	10.064	ppbv	0.00
Spiked Amount		10.000	Range 65 - 135		Recovery	= 100.600%		
Target Compounds								Qvalue
2) Dichlorodifluoromethane			1.495	85	3973	0.282	ppbv	100
3) Chlorodifluoromethane			1.473	51	2710m	0.210	ppbv	
4) Chloromethane			1.528	50	1573	0.286	ppbv	93
9) Propene			1.486	41	3595	0.643	ppbv	92
10) Heptane			4.994	43	2691m	0.187	ppbv	
11) Trichlorofluoromethane			1.881	101	3153	0.211	ppbv	84
13) Ethanol			1.722	45	35402	76.465	ppbv	92
15) Acetone			1.839	43	45561	2.960	ppbv	100
17) tert-Butyl alcohol			2.046	59	5924	0.388	ppbv #	92
19) Isopropyl Alcohol			1.890	45	21074	2.282	ppbv #	39
20) Methylene Chloride			2.068	84	2125	0.484	ppbv	96
25) Ethyl Acetate			2.842	43	10212	0.357	ppbv #	93
29) Chloroform			2.855	83	2688	0.162	ppbv	99
30) Cyclohexane			3.865	84	1505m	0.163	ppbv	
34) 2-Butanone			2.564	43	11025	0.759	ppbv	96
35) Carbon Tetrachloride			3.764	117	509m	0.040	ppbv	
36) Benzene			3.667	78	2857m	0.153	ppbv	
41) Tetrahydrofuran			3.065	42	3977	0.489	ppbv	92
50) 4-Methyl-2-Pentanone			5.774	43	3254m	0.165	ppbv	
52) Tetrachloroethene			8.231	164	2205m	0.317	ppbv	
53) Toluene			6.939	91	106894	5.050	ppbv	99
58) Ethyl Benzene			9.357	91	25209	0.737	ppbv	99
59) m/p-Xylene			9.535	91	86836	3.157	ppbv #	100
60) o-Xylene			9.966	91	34348	1.245	ppbv	98
61) Styrene			9.872	104	9624	0.807	ppbv	95
74) 1,2,4-Trimethylbenzene			11.539	105	7727	0.266	ppbv #	53

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

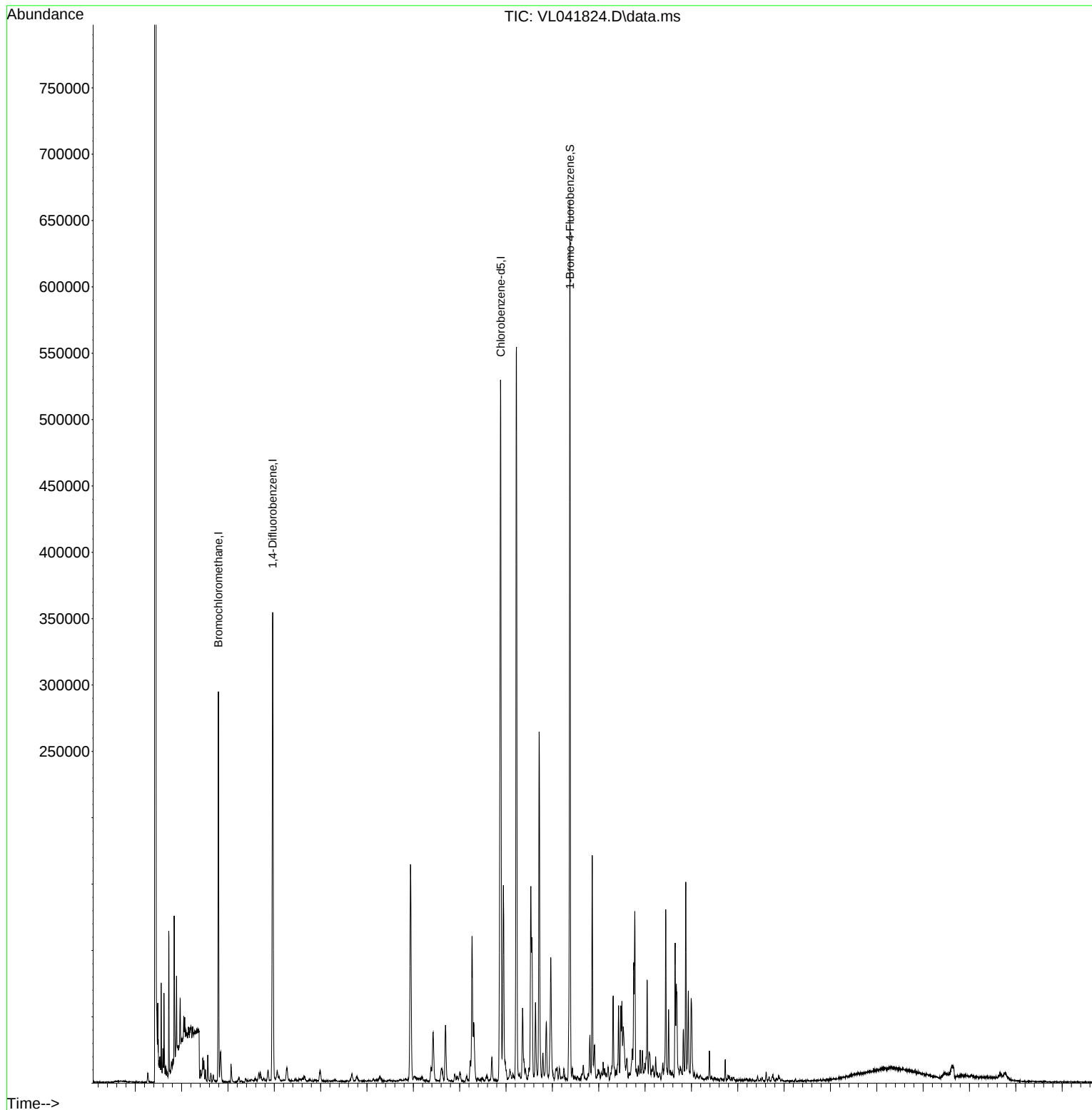
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121924\
Data File : VL041824.D
Acq On : 19 Dec 2024 17:08
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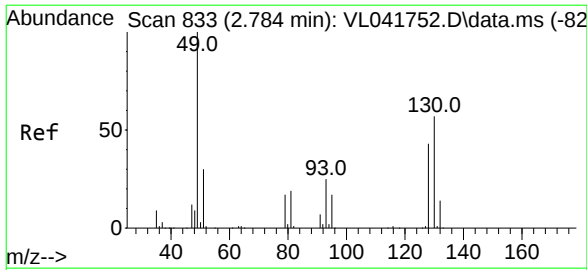
Instrument :
MSVOA_L
ClientSampleId :
C0AC4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

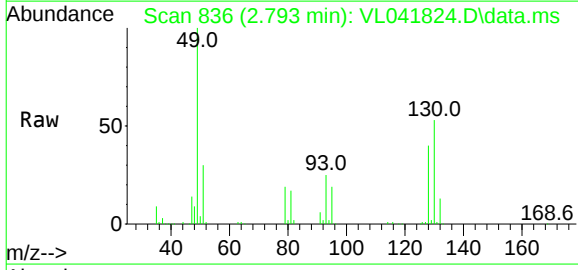
Quant Time: Dec 20 01:45:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 833
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

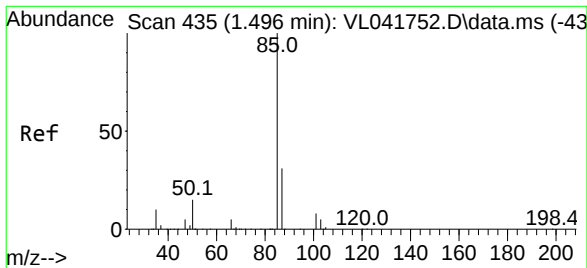
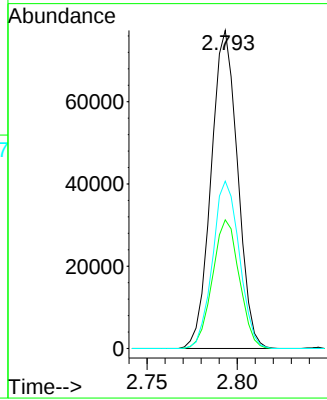
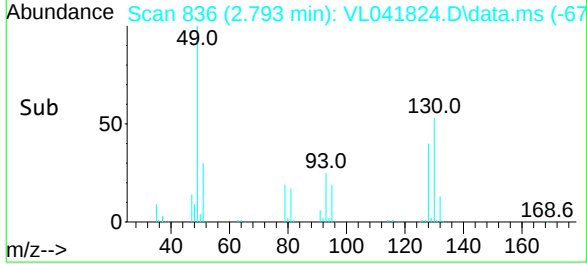
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



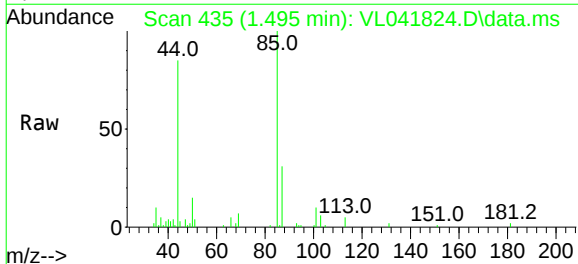
Tgt Ion: 49 Resp: 79104
Ion Ratio Lower Upper
49 100
128 40.9 21.6 64.6
130 53.0 28.3 85.0

Manual Integrations
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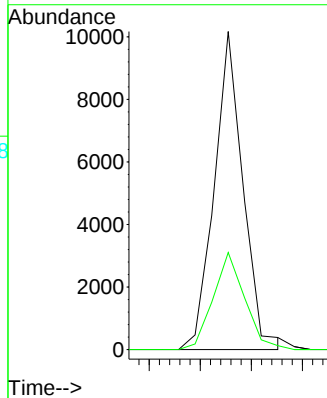
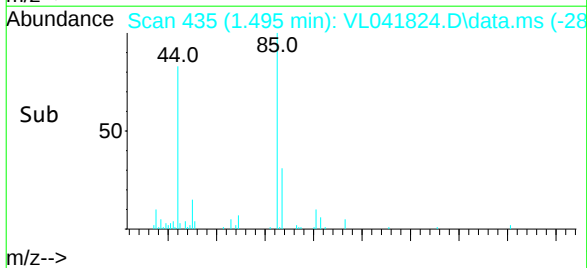
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

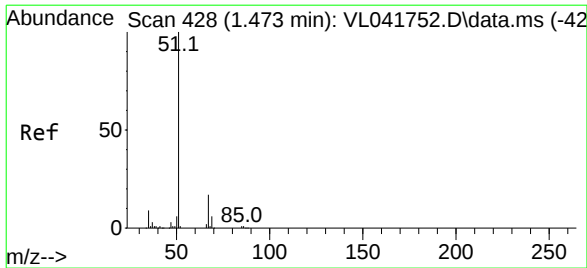


#2
Dichlorodifluoromethane
Concen: 0.282 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08



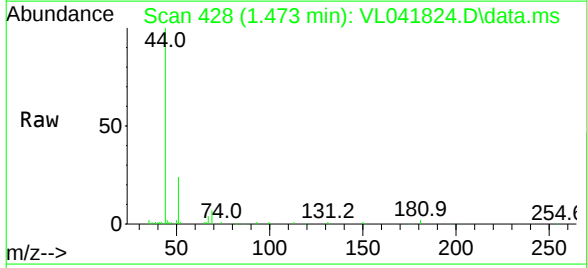
Tgt Ion: 85 Resp: 3973
Ion Ratio Lower Upper
85 100
87 30.5 24.5 36.7





#3
Chlorodifluoromethane
Concen: 0.210 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

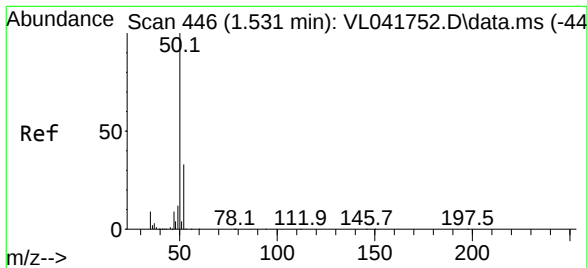
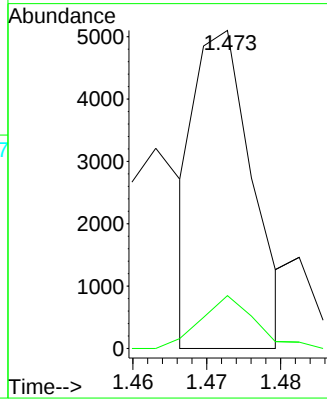
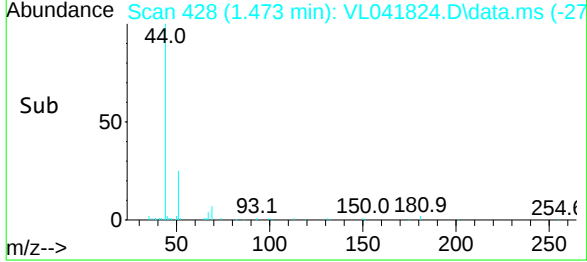
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



Tgt Ion: 51 Resp: 2710
Ion Ratio Lower Upper
51 100
67 16.8 15.0 22.4

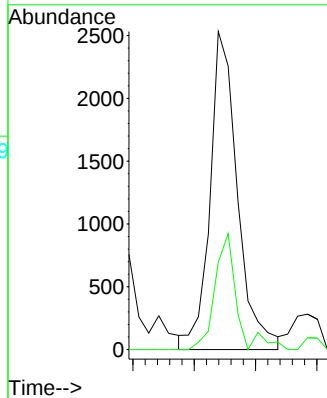
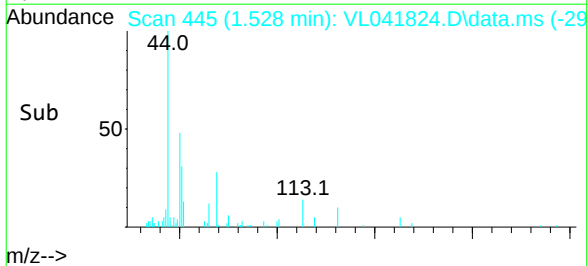
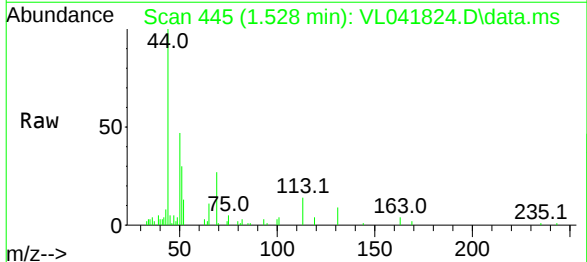
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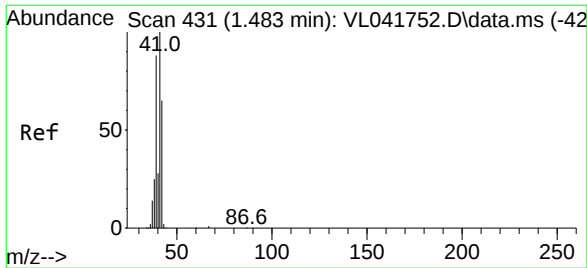
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#4
Chloromethane
Concen: 0.286 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.004 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

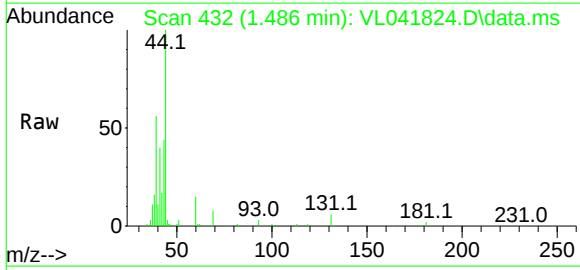
Tgt Ion: 50 Resp: 1573
Ion Ratio Lower Upper
50 100
52 28.6 26.2 39.2





#9
Propene
Concen: 0.643 ppbv
RT: 1.486 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

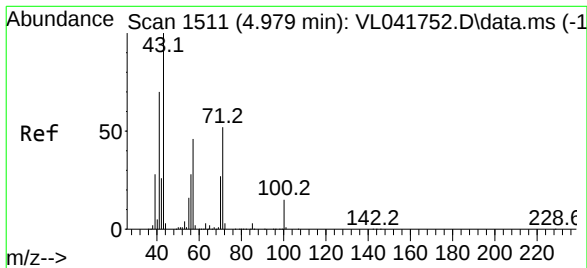
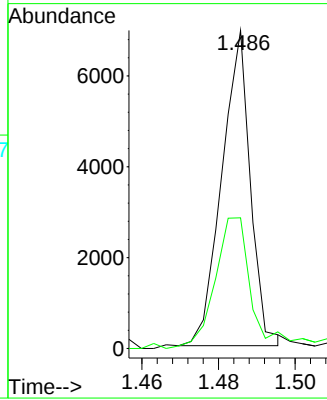
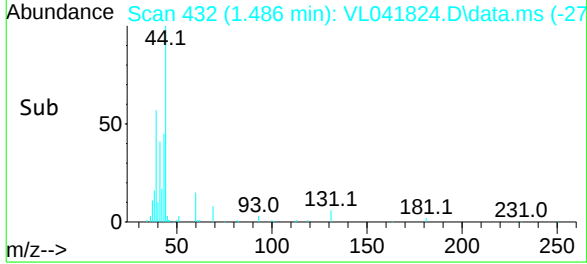
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



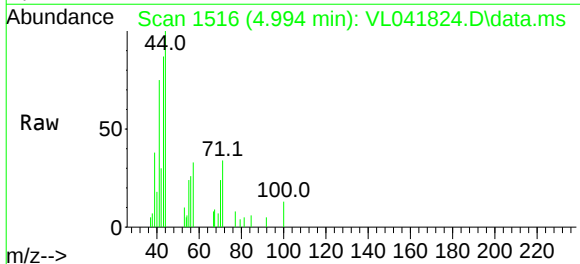
Tgt Ion: 41 Resp: 3595
Ion Ratio Lower Upper
41 100
42 59.2 52.4 78.6

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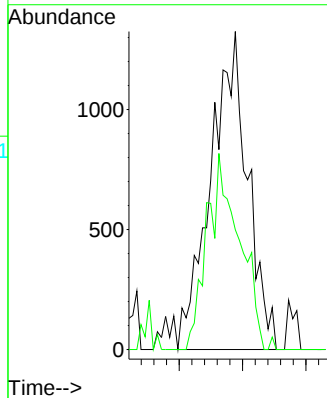
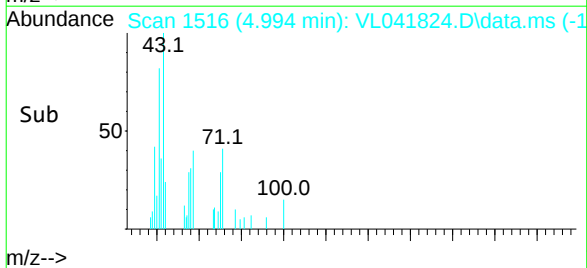
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

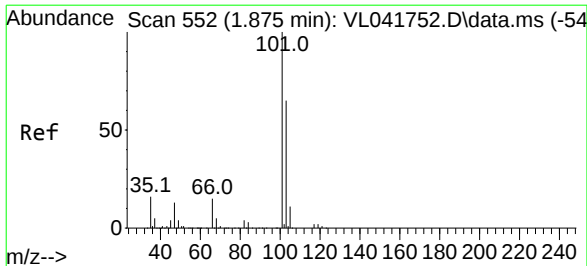


#10
Heptane
Concen: 0.187 ppbv m
RT: 4.994 min Scan# 1516
Delta R.T. 0.016 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08



Tgt Ion: 43 Resp: 2691
Ion Ratio Lower Upper
43 100
57 0.0 38.5 57.7#





#11

Trichlorofluoromethane

Concen: 0.211 ppbv

RT: 1.881 min Scan# 55

Delta R.T. 0.006 min

Lab File: VL041824.D

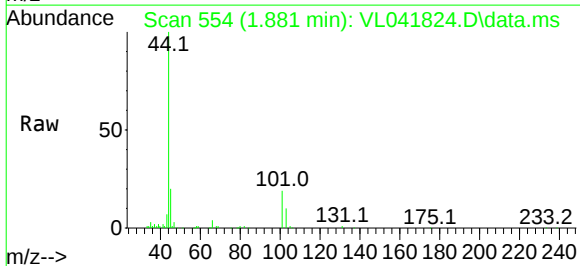
Acq: 19 Dec 2024 17:08

Instrument :

MSVOA_L

ClientSampleId :

C0AC4

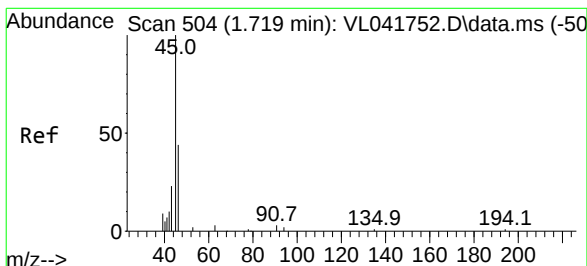
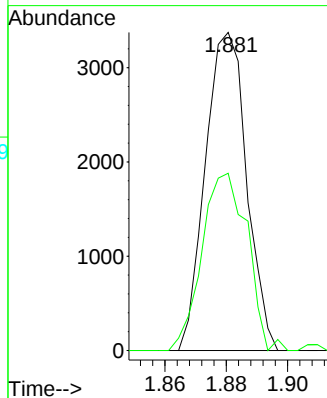
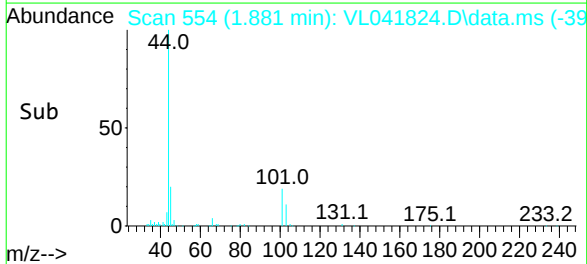


Tgt Ion:	101	Resp:	3153
Ion	Ratio	Lower	Upper
101	100		
103	52.3	51.8	77.8

Manual Integrations

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Supervised By :Mahesh Dadoda 12/20/2024



#13

Ethanol

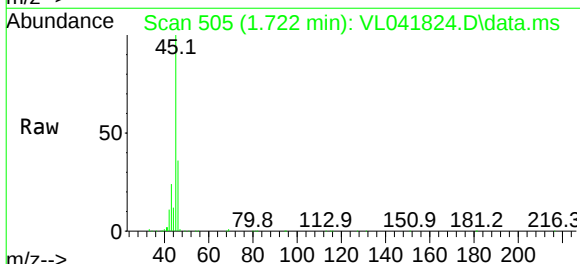
Concen: 76.465 ppbv

RT: 1.722 min Scan# 505

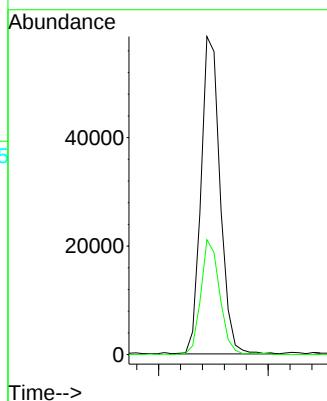
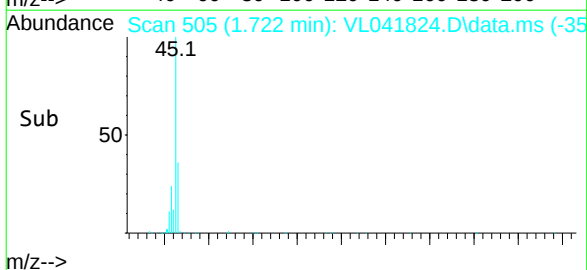
Delta R.T. 0.003 min

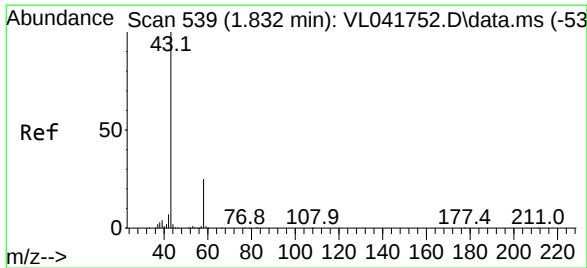
Lab File: VL041824.D

Acq: 19 Dec 2024 17:08



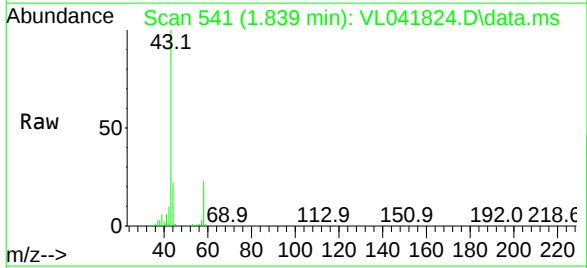
Tgt Ion:	45	Resp:	35402
Ion	Ratio	Lower	Upper
45	100		
46	36.1	16.4	65.8





#15
Acetone
Concen: 2.960 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

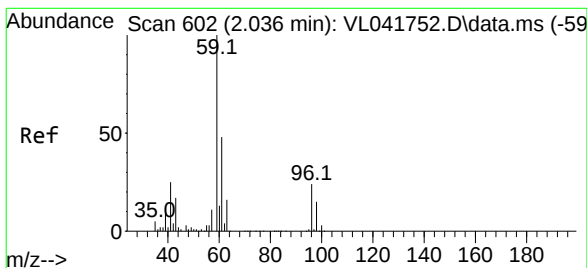
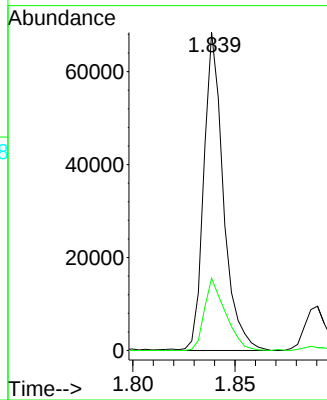
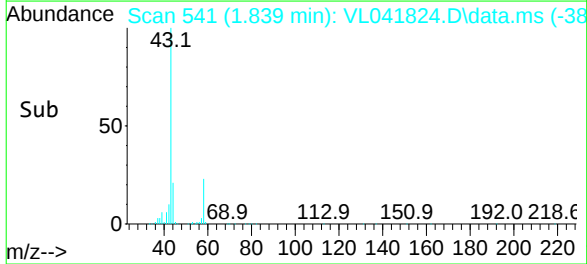
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



Tgt Ion: 43 Resp: 45561
Ion Ratio Lower Upper
43 100
58 24.5 19.7 29.5

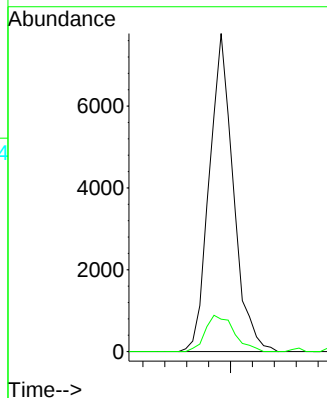
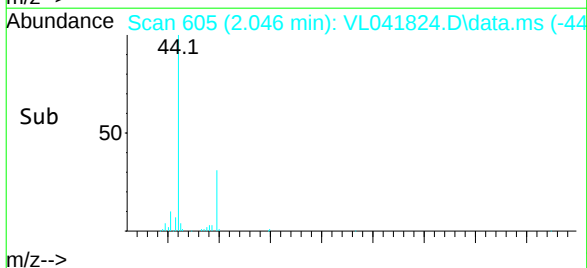
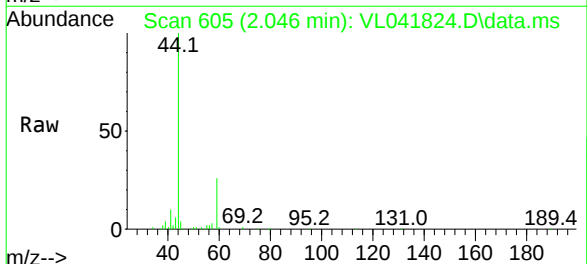
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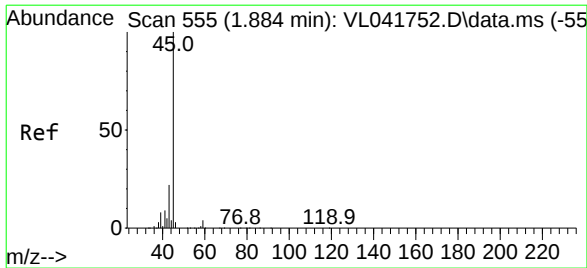
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#17
tert-Butyl alcohol
Concen: 0.388 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

Tgt Ion: 59 Resp: 5924
Ion Ratio Lower Upper
59 100
57 13.7 8.6 13.0#





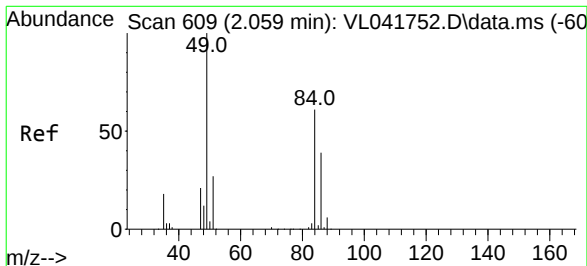
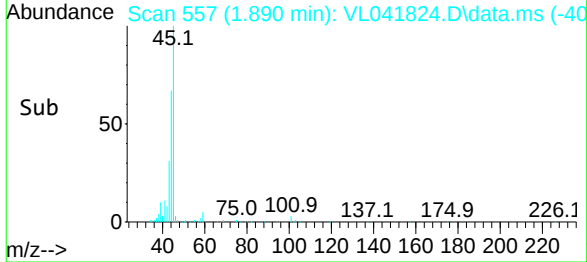
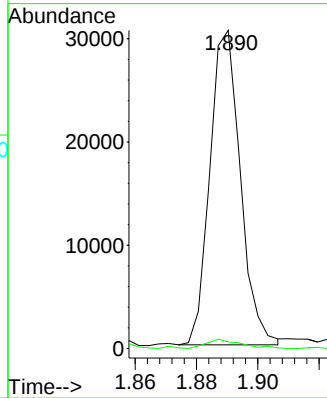
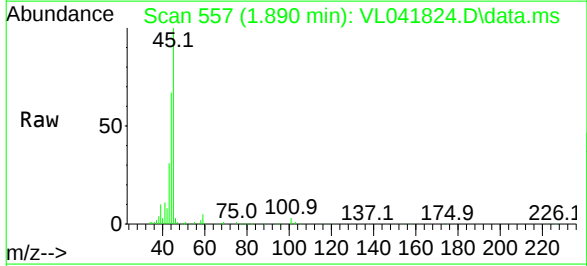
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Isopropyl Alcohol
Concen: 2.282 ppbv
RT: 1.890 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

Instrument :
MSVOA_L
ClientSampleId :
C0AC4

Tgt Ion: 45 Resp: 21074
Ion Ratio Lower Upper
45 100
58 3.5 33.3 49.9#

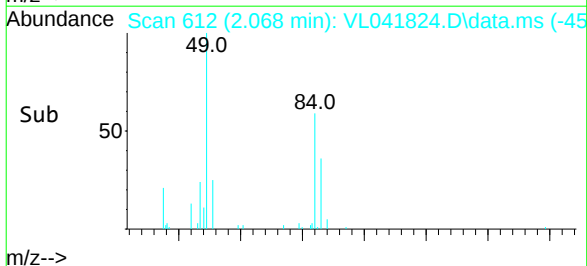
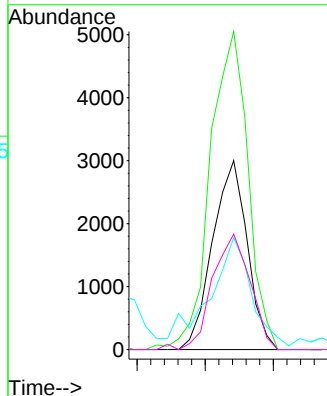
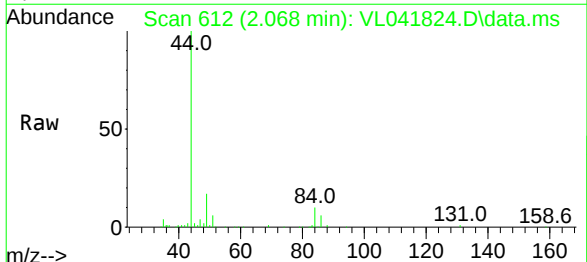
Manual Integrations
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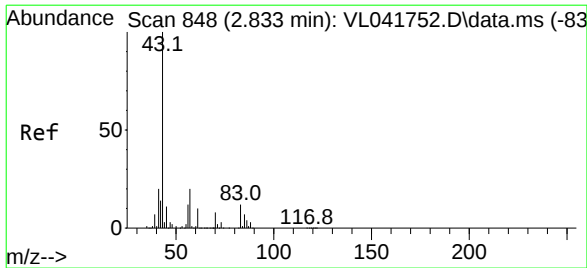
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#20
Methylene Chloride
Concen: 0.484 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

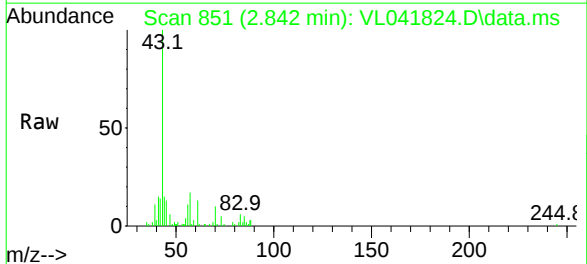
Tgt Ion: 84 Resp: 2125
Ion Ratio Lower Upper
84 100
49 168.3 132.6 198.8
51 55.1 37.6 56.4
86 61.1 51.4 77.0





#25
Ethyl Acetate
Concen: 0.357 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

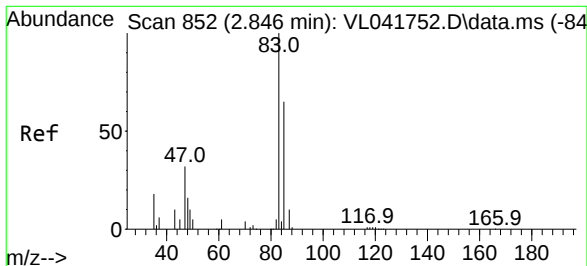
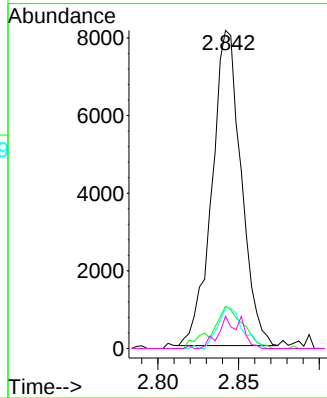
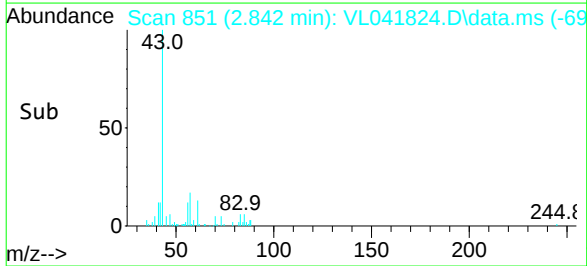
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



Tgt Ion	Ratio	Lower	Upper
43	100		
45	14.5	8.1	12.1
61	11.2	7.0	10.6
70	8.2	6.5	9.7

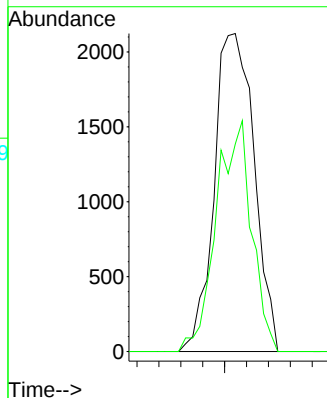
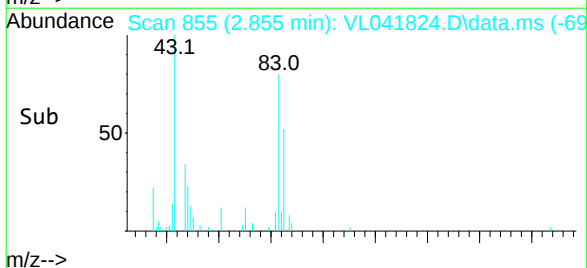
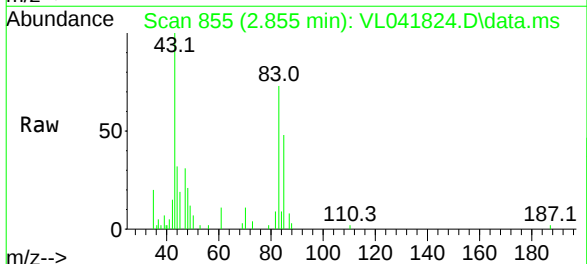
Manual Integrations
APPROVED

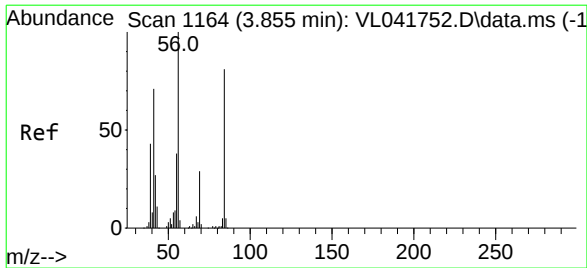
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#29
Chloroform
Concen: 0.162 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

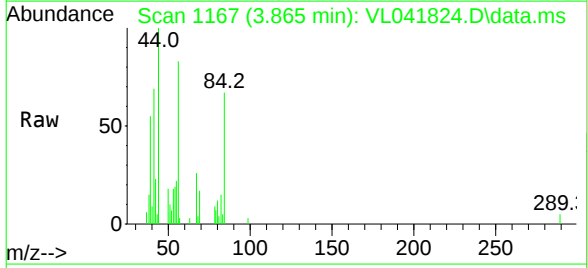
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.6





#30
Cyclohexane
Concen: 0.163 ppbv m
RT: 3.865 min Scan# 1164
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

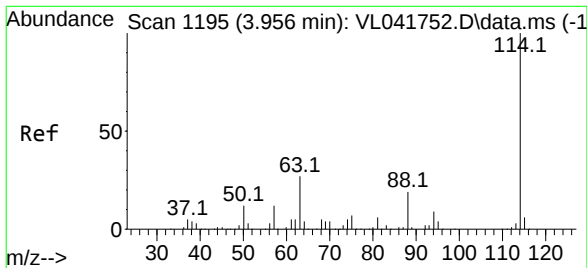
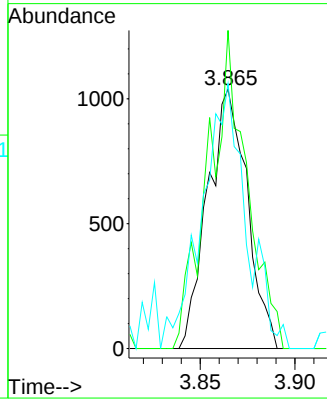
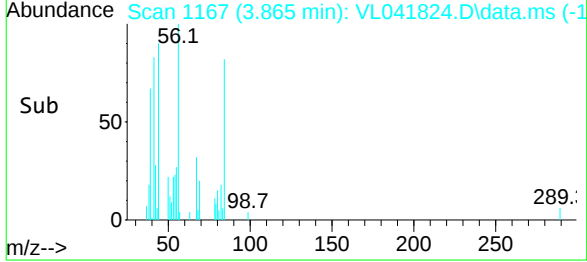
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



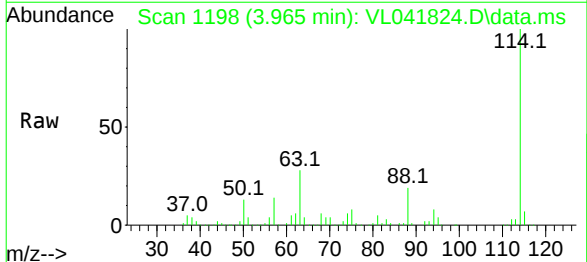
Tgt Ion: 84 Resp: 1505
Ion Ratio Lower Upper
84 100
56 121.7 102.3 153.5
41 121.4 74.0 111.0#

Manual Integrations
APPROVED

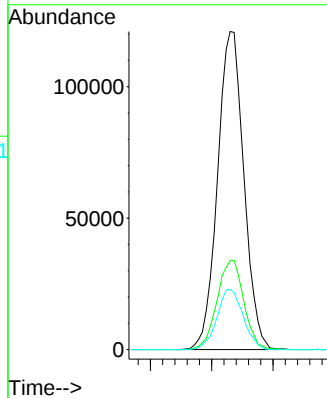
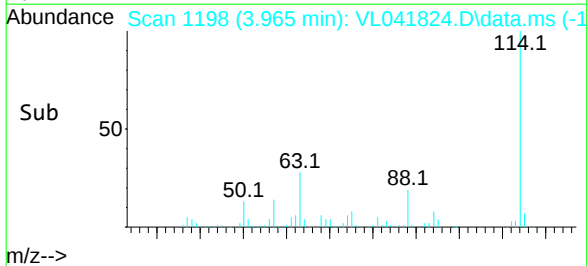
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

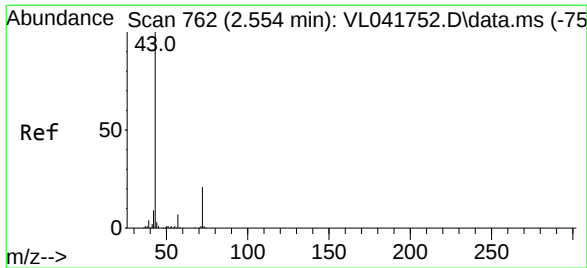


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08



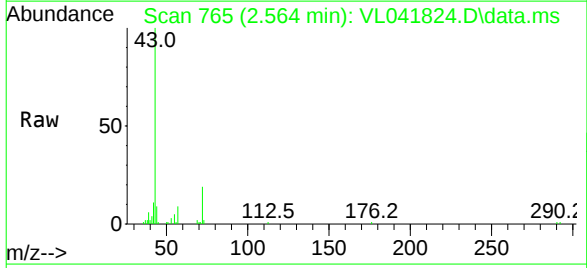
Tgt Ion:114 Resp: 180475
Ion Ratio Lower Upper
114 100
63 28.5 21.8 32.8
88 18.9 14.8 22.2





#34
2-Butanone
Concen: 0.759 ppbv
RT: 2.564 min Scan# 762
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

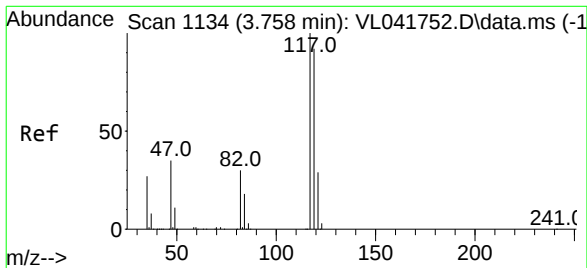
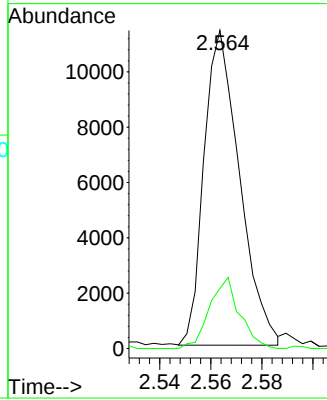
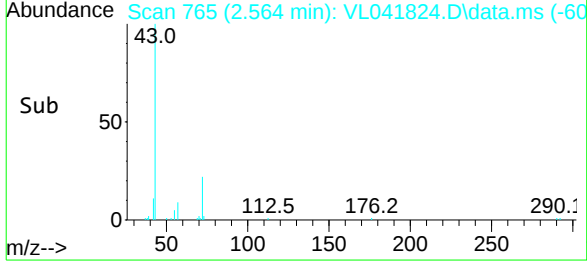
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



Tgt Ion: 43 Resp: 11025
Ion Ratio Lower Upper
43 100
72 19.3 16.8 25.2

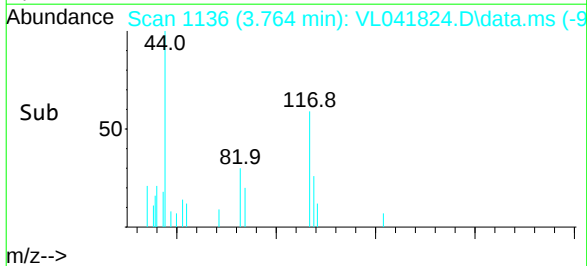
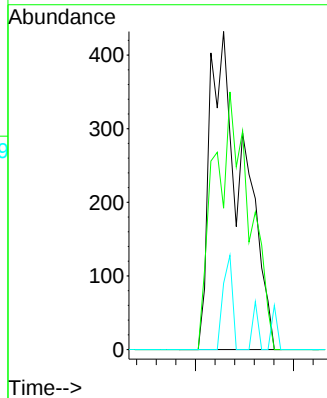
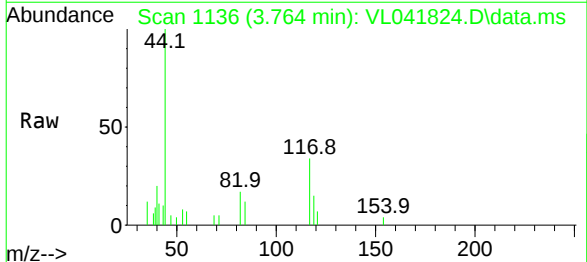
Manual Integrations
APPROVED

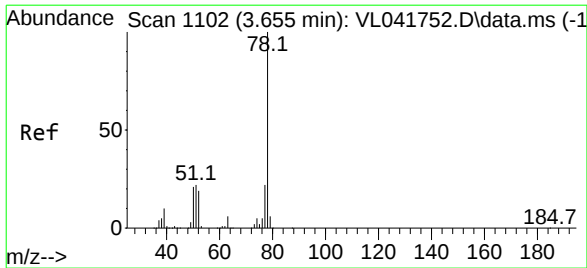
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#35
Carbon Tetrachloride
Concen: 0.040 ppbv m
RT: 3.764 min Scan# 1136
Delta R.T. 0.006 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

Tgt Ion:117 Resp: 509
Ion Ratio Lower Upper
117 100
119 44.4 73.7 110.5#
121 20.8 23.0 34.4#





#36

Benzene

Concen: 0.153 ppbv m

RT: 3.667 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL041824.D

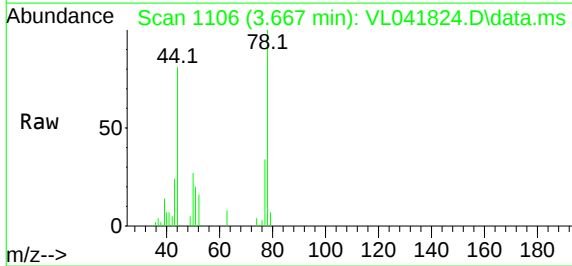
Acq: 19 Dec 2024 17:08

Instrument :

MSVOA_L

ClientSampleId :

C0AC4



Tgt Ion: 78 Resp: 2857

Ion Ratio Lower Upper

78 100

77 34.0 17.8 26.6#

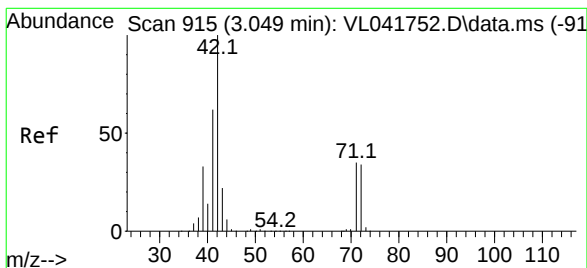
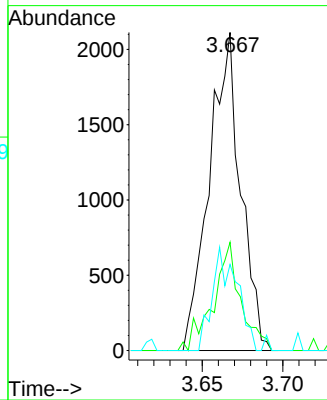
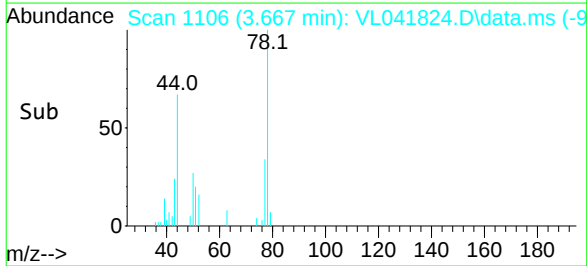
50 27.1 17.2 25.8#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024

Supervised By :Mahesh Dadoda 12/20/2024



#41

Tetrahydrofuran

Concen: 0.489 ppbv

RT: 3.065 min Scan# 920

Delta R.T. 0.016 min

Lab File: VL041824.D

Acq: 19 Dec 2024 17:08

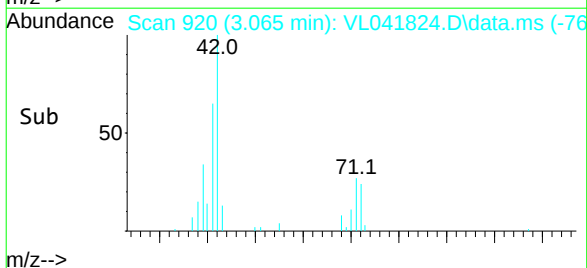
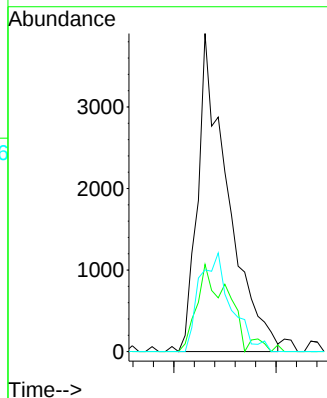
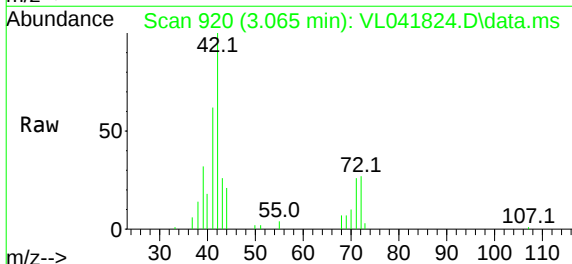
Tgt Ion: 42 Resp: 3977

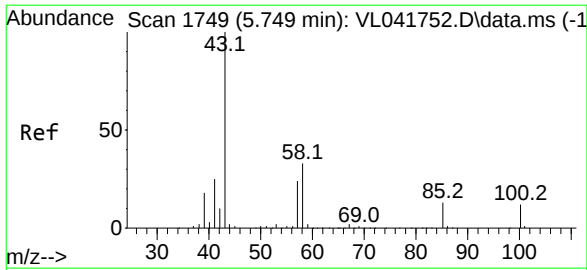
Ion Ratio Lower Upper

42 100

72 29.4 29.1 43.7

71 32.9 28.4 42.6





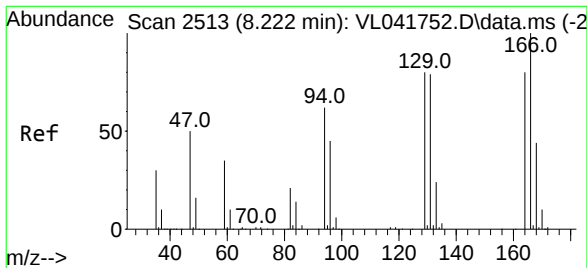
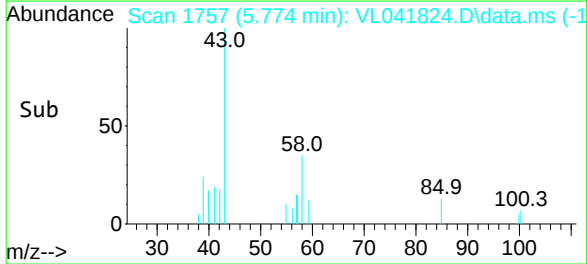
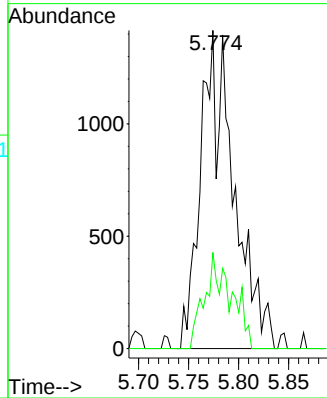
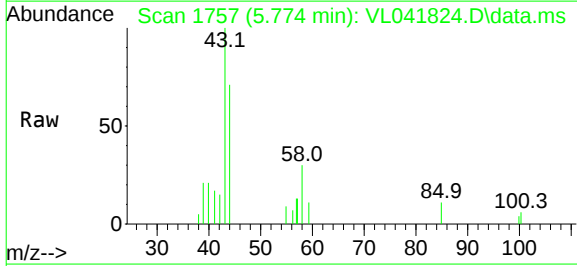
#50
4-Methyl-2-Pentanone
Concen: 0.165 ppbv m
RT: 5.774 min Scan# 1749
Delta R.T. 0.025 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

Instrument :
MSVOA_L
ClientSampleId :
C0AC4

Tgt Ion: 43 Resp: 3254
Ion Ratio Lower Upper
43 100
58 0.0 26.8 40.2#

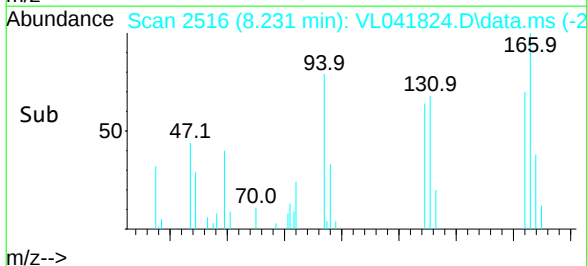
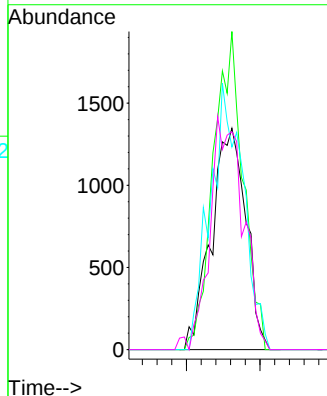
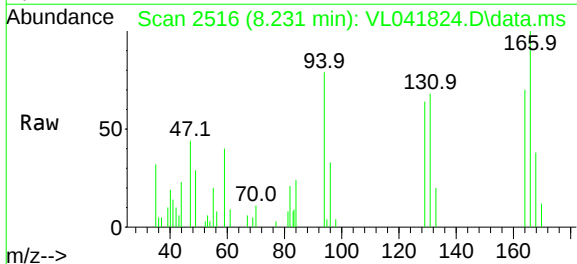
Manual Integrations
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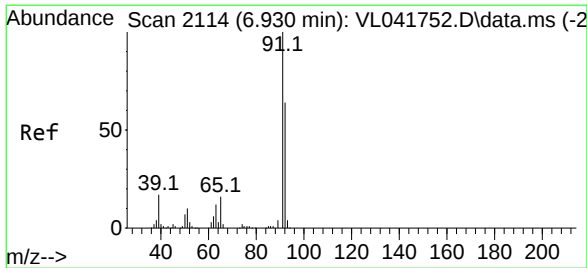
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#52
Tetrachloroethene
Concen: 0.317 ppbv m
RT: 8.231 min Scan# 2516
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

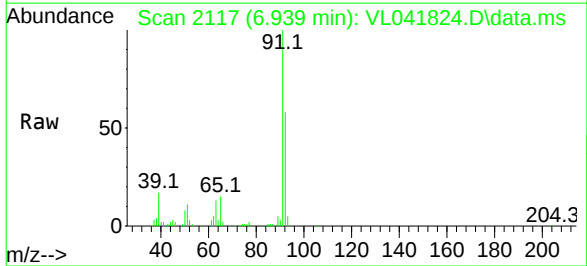
Tgt Ion:164 Resp: 2205
Ion Ratio Lower Upper
164 100
166 143.7 99.8 149.6
129 91.5 79.6 119.4
131 98.4 78.6 117.8





#53
Toluene
Concen: 5.050 ppbv
RT: 6.939 min Scan# 2114
Delta R.T. 0.009 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

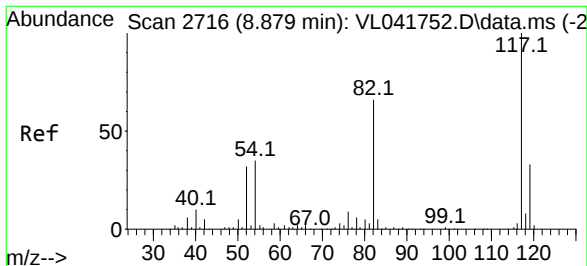
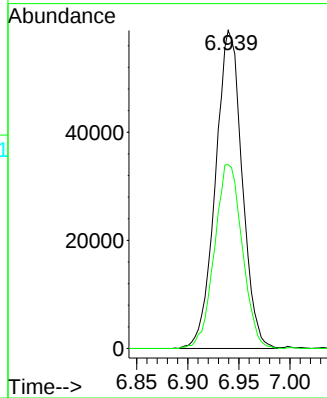
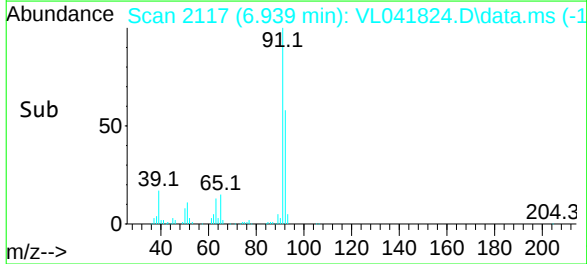
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



Tgt Ion: 91 Resp: 106894
Ion Ratio Lower Upper
91 100
92 60.4 47.9 71.9

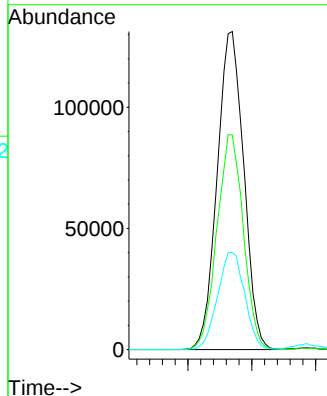
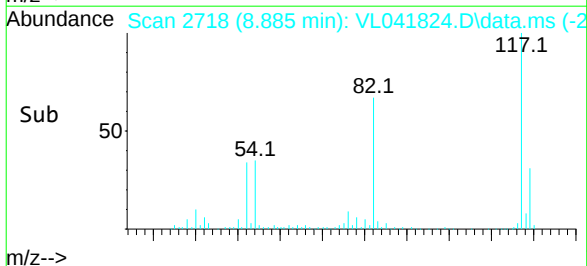
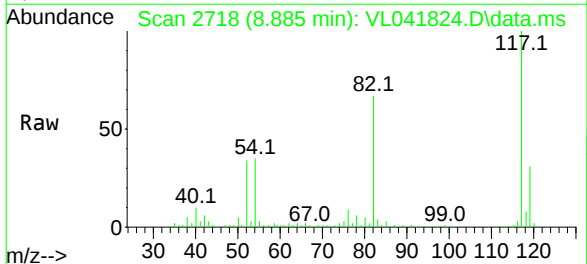
Manual Integrations
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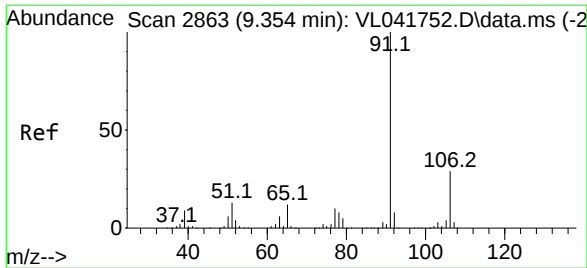
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.006 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

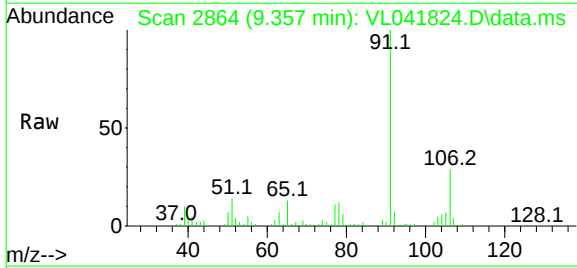
Tgt Ion:117 Resp: 190007
Ion Ratio Lower Upper
117 100
82 67.1 53.8 80.8
119 31.2 26.7 40.1





#58
Ethyl Benzene
Concen: 0.737 ppbv
RT: 9.357 min Scan# 2863
Delta R.T. 0.003 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

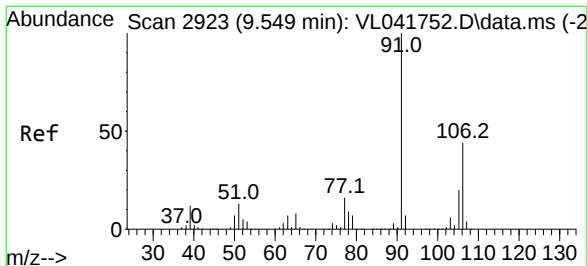
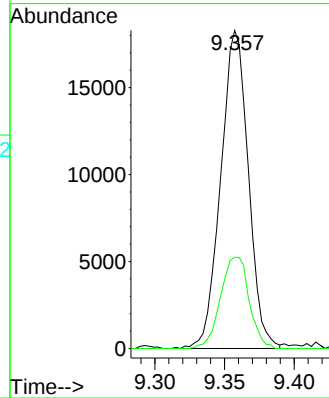
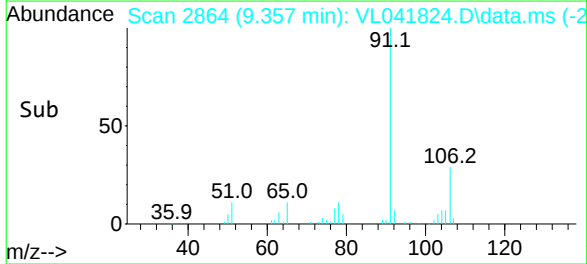
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



Tgt Ion: 91 Resp: 25209
Ion Ratio Lower Upper
91 100
106 28.7 23.5 35.3

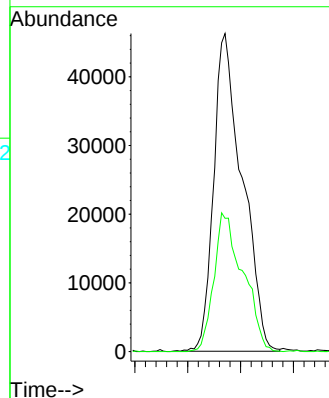
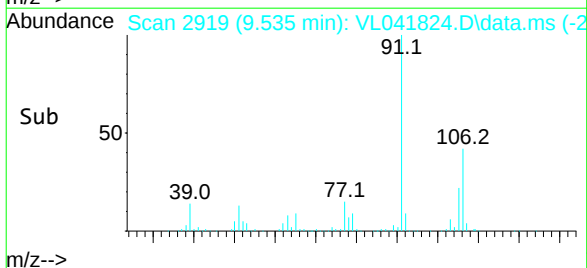
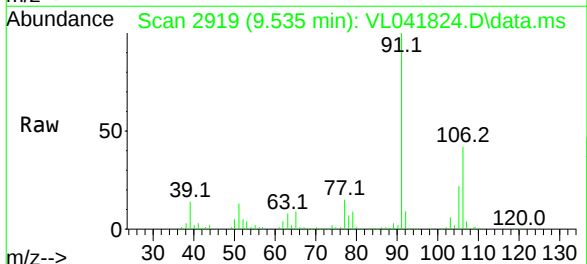
Manual Integrations
APPROVED

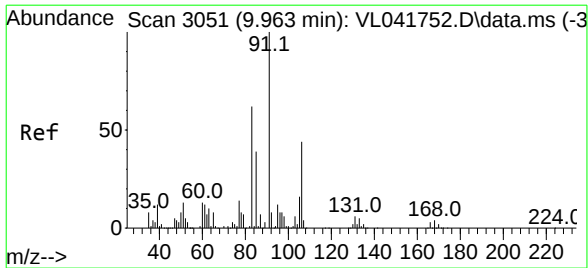
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#59
m/p-Xylene
Concen: 3.157 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

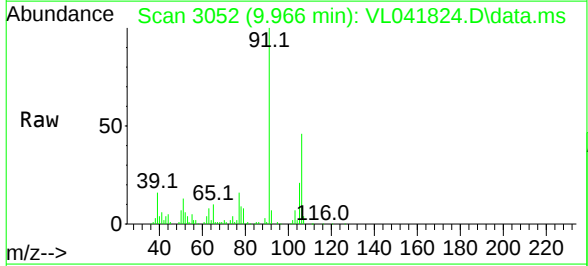
Tgt Ion: 91 Resp: 86836
Ion Ratio Lower Upper
91 100
106 44.7 0.0 0.0#





#60
o-Xylene
Concen: 1.245 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

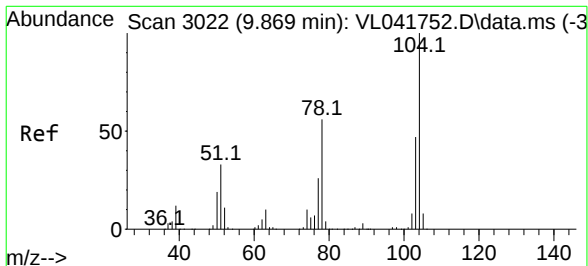
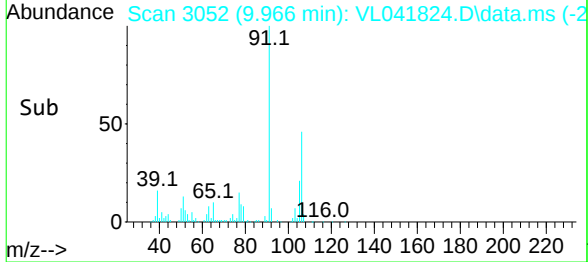
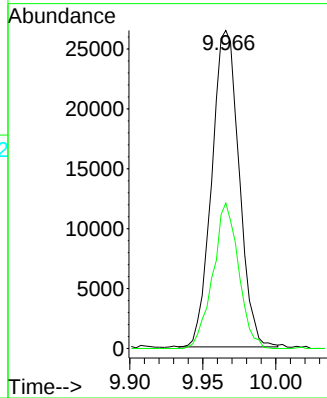
Instrument :
MSVOA_L
ClientSampleId :
C0AC4



Tgt Ion: 91 Resp: 34348
Ion Ratio Lower Upper
91 100
106 43.3 21.1 63.4

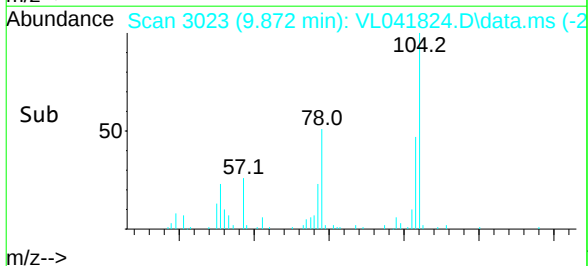
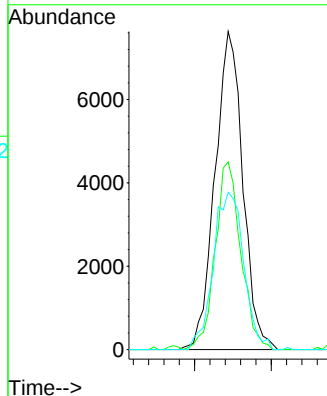
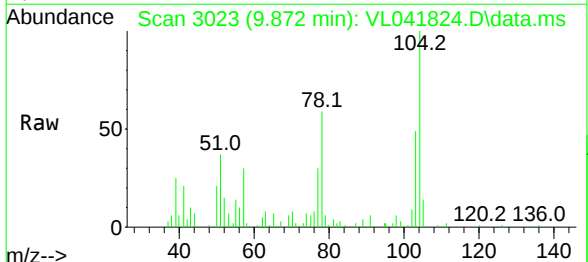
Manual Integrations
APPROVED

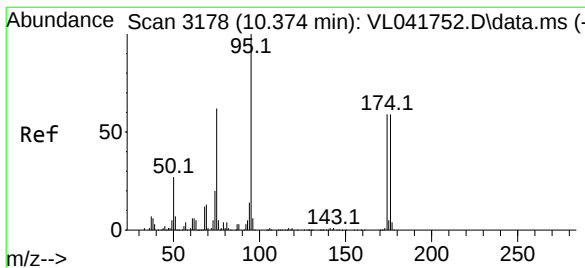
Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#61
Styrene
Concen: 0.807 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL041824.D
Acq: 19 Dec 2024 17:08

Tgt Ion:104 Resp: 9624
Ion Ratio Lower Upper
104 100
78 55.0 43.8 65.6
103 54.3 37.8 56.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.064 ppbv

RT: 10.377 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL041824.D

Acq: 19 Dec 2024 17:08

Instrument :

MSVOA_L

ClientSampleId :

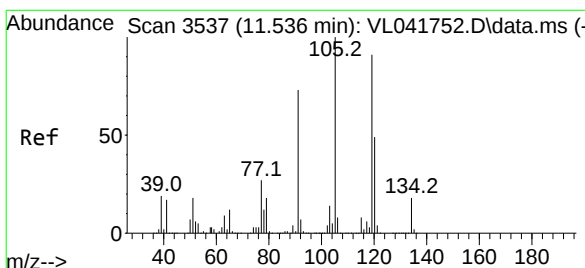
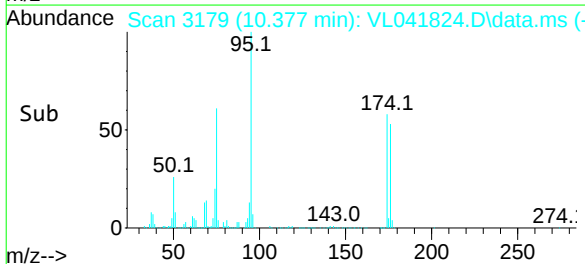
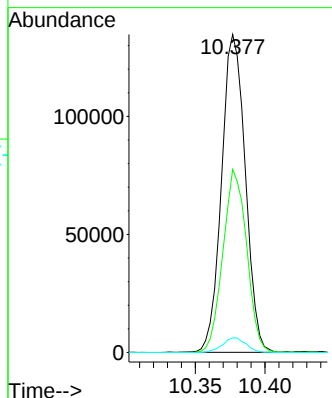
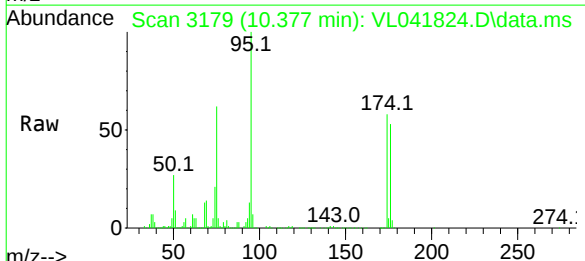
C0AC4

Tgt Ion:	95	Resp:	159349
Ion	Ratio	Lower	Upper
95	100		
174	57.7	47.6	71.4
175	4.6	3.7	5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.266 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL041824.D

Acq: 19 Dec 2024 17:08

Tgt Ion:	105	Resp:	7727
Ion	Ratio	Lower	Upper
105	100		
120	30.4	39.0	58.4#
91	14.2	58.1	87.1#
77	15.0	21.8	32.8#

