

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041813.D
 Acq On : 19 Dec 2024 01:55
 Operator : SY/MD
 Sample : P5292-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC6

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
 Supervised By : Mahesh Dadoda 12/23/2024

Quant Time: Dec 19 08:03:19 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	75339	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	184828	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	185714	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	149193	9.640	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	7356	0.549	ppbv	95
4) Chloromethane	1.531	50	1019	0.194	ppbv	96
9) Propene	1.489	41	4671	0.877	ppbv	93
10) Heptane	4.991	43	3127m	0.229	ppbv	
11) Trichlorofluoromethane	1.881	101	14344	1.007	ppbv	92
13) Ethanol	1.722	45	39169	88.829	ppbv	91
15) Acetone	1.839	43	52705	3.595	ppbv	94
17) tert-Butyl alcohol	2.046	59	7358m	0.506	ppbv	
19) Isopropyl Alcohol	1.887	45	203262	23.109	ppbv #	36
20) Methylene Chloride	2.065	84	8722	2.087	ppbv	95
25) Ethyl Acetate	2.842	43	31983	1.173	ppbv	99
26) Hexane	2.832	57	12521	1.210	ppbv #	91
29) Chloroform	2.855	83	7646	0.485	ppbv	99
30) Cyclohexane	3.868	84	3422m	0.389	ppbv	
32) 1,1,1-Trichloroethane	3.376	97	37621	2.347	ppbv	97
34) 2-Butanone	2.567	43	10439	0.702	ppbv	94
35) Carbon Tetrachloride	3.774	117	896m	0.068	ppbv	
36) Benzene	3.664	78	3612m	0.189	ppbv	
41) Tetrahydrofuran	3.072	42	5854	0.703	ppbv	93
52) Tetrachloroethene	8.225	164	450m	0.063	ppbv	
53) Toluene	6.949	91	102249	4.717	ppbv	99
57) Chlorobenzene	8.930	112	3385	0.178	ppbv #	82
58) Ethyl Benzene	9.364	91	15539	0.465	ppbv	100
59) m/p-Xylene	9.539	91	51273	1.907	ppbv #	100
60) o-Xylene	9.969	91	19501	0.723	ppbv	100
61) Styrene	9.878	104	5166	0.443	ppbv	94

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

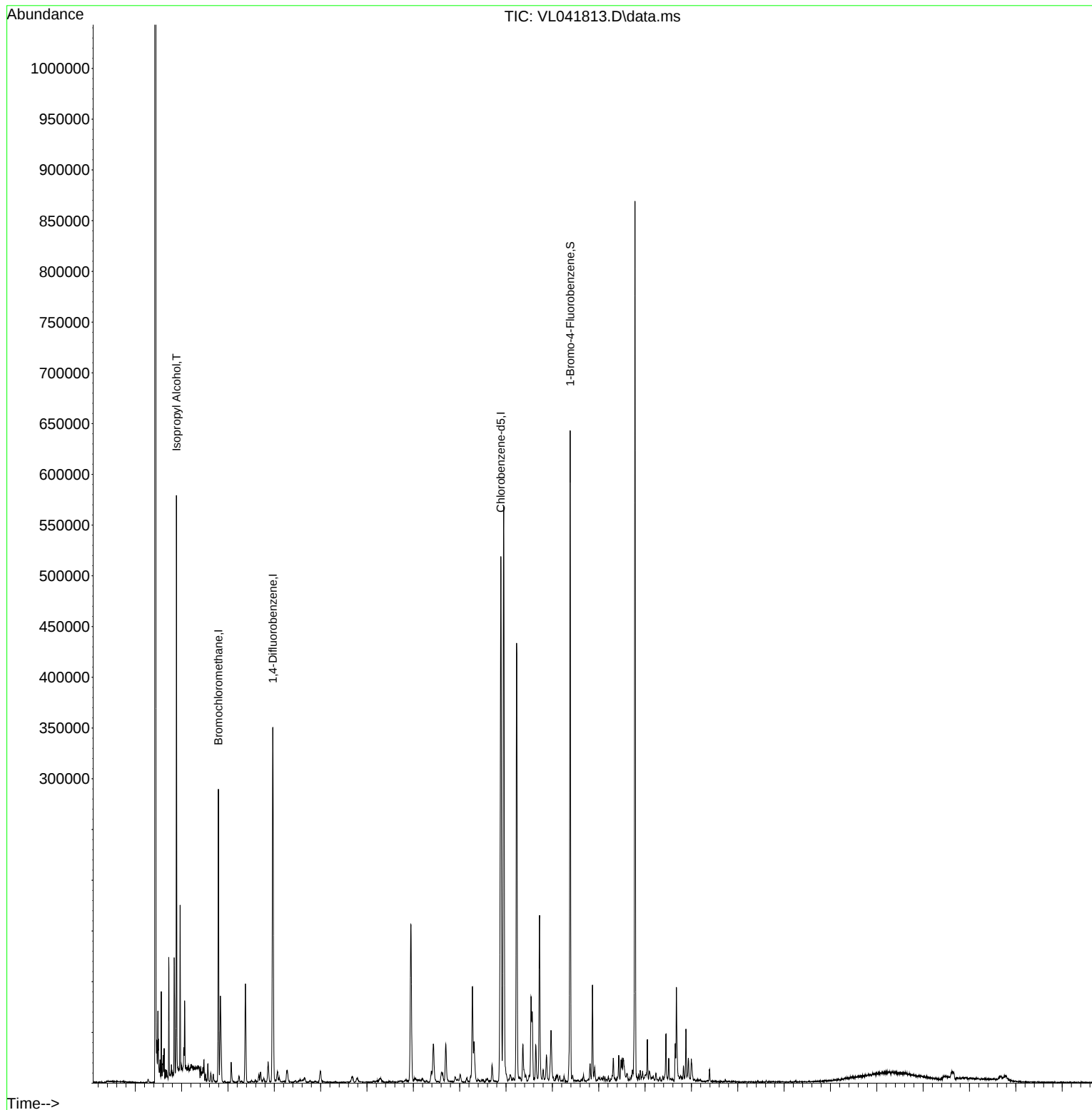
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
Data File : VL041813.D
Acq On : 19 Dec 2024 01:55
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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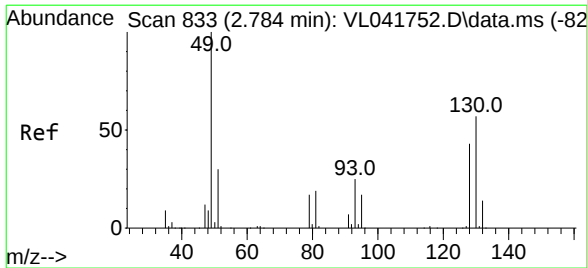
Instrument :
MSVOA_L
ClientSampleId :
C0AC6

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Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

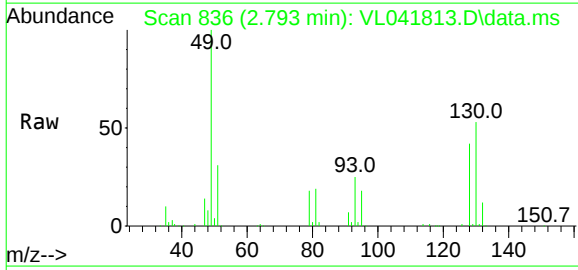
Quant Time: Dec 19 08:03:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 833
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

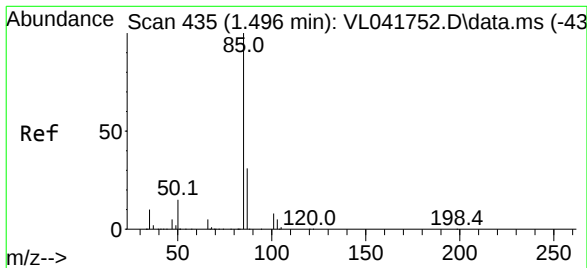
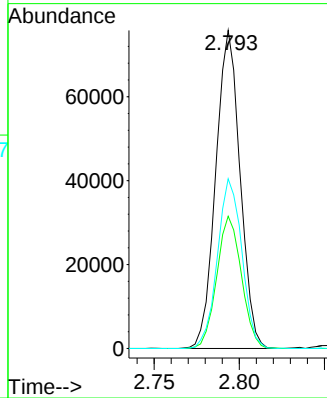
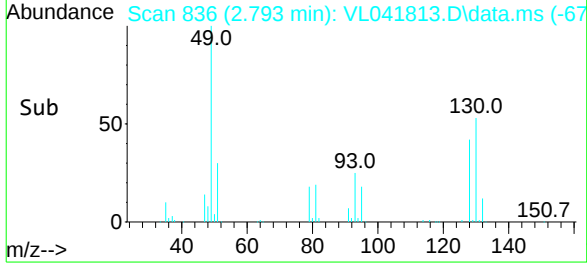
Instrument :
MSVOA_L
ClientSampleId :
C0AC6



Tgt Ion: 49 Resp: 75339
Ion Ratio Lower Upper
49 100
128 42.0 21.6 64.6
130 53.6 28.3 85.0

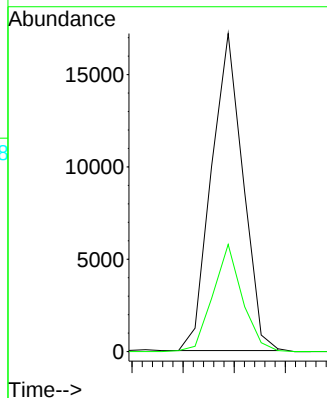
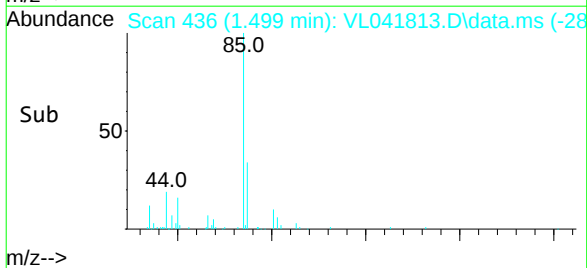
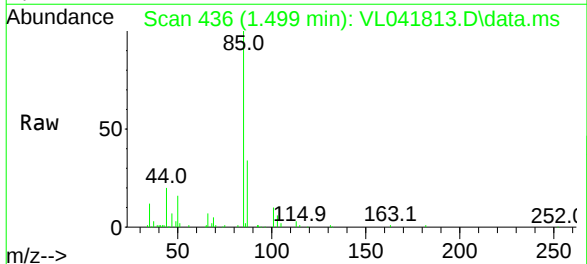
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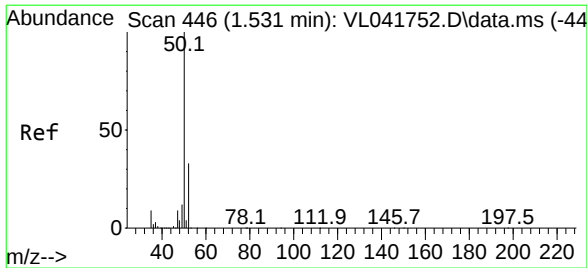
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#2
Dichlorodifluoromethane
Concen: 0.549 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

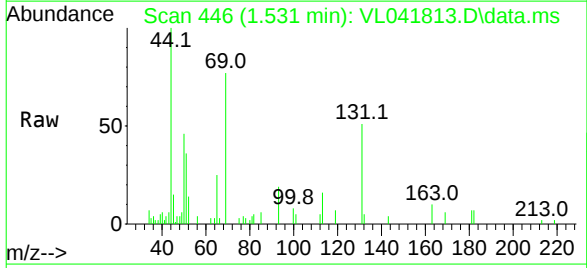
Tgt Ion: 85 Resp: 7356
Ion Ratio Lower Upper
85 100
87 33.5 24.5 36.7





#4
Chloromethane
Concen: 0.194 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

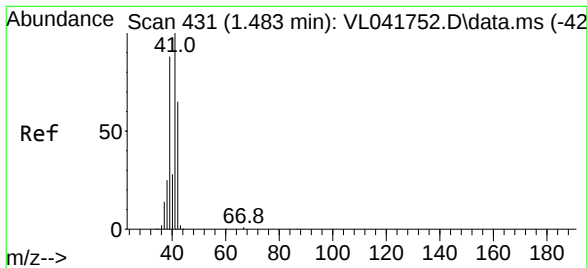
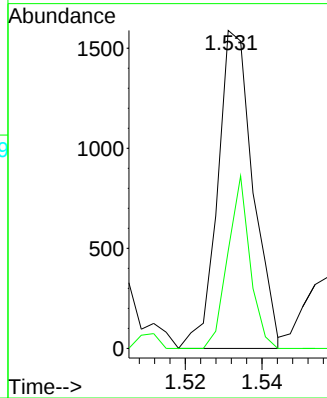
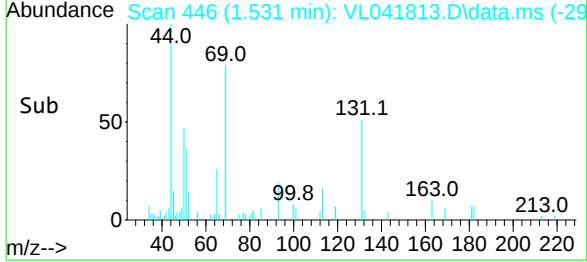
Instrument :
MSVOA_L
ClientSampleId :
C0AC6



Tgt Ion: 50 Resp: 1019
Ion Ratio Lower Upper
50 100
52 30.7 26.2 39.2

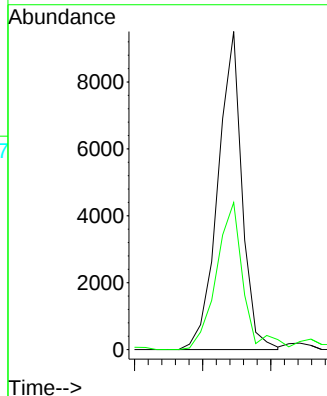
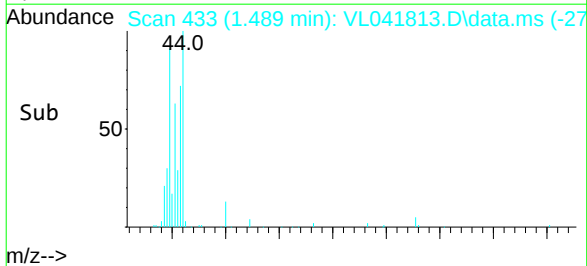
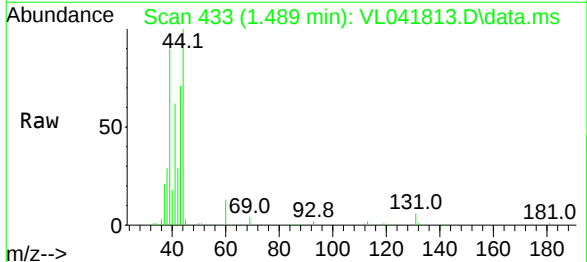
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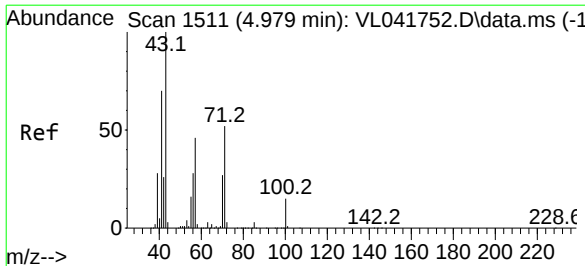
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#9
Propene
Concen: 0.877 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

Tgt Ion: 41 Resp: 4671
Ion Ratio Lower Upper
41 100
42 59.7 52.4 78.6





#10

Heptane

Concen: 0.229 ppbv m

RT: 4.991 min Scan# 1511

Delta R.T. 0.013 min

Lab File: VL041813.D

Acq: 19 Dec 2024 01:55

Instrument :

MSVOA_L

ClientSampleId :

C0AC6

Tgt Ion: 43 Resp: 3127

Ion Ratio Lower Upper

43 100

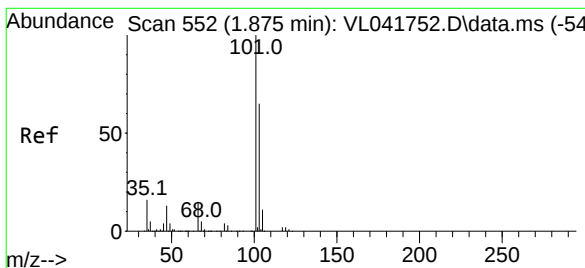
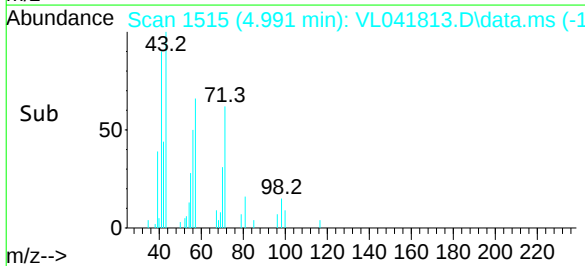
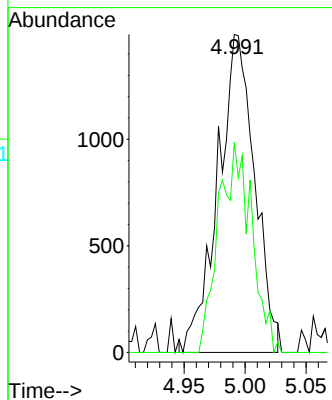
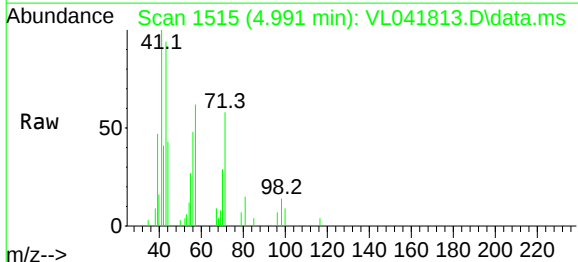
57 59.3 38.5 57.7#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/23/2024



#11

Trichlorofluoromethane

Concen: 1.007 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.006 min

Lab File: VL041813.D

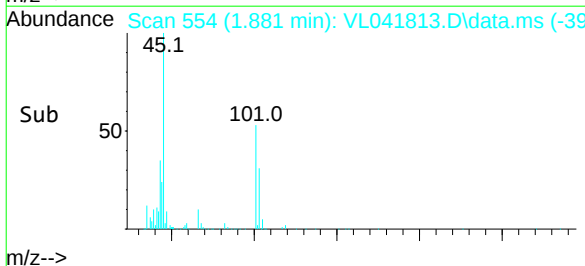
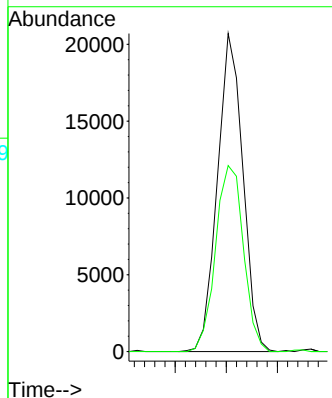
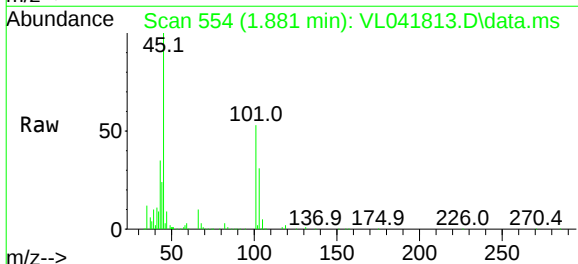
Acq: 19 Dec 2024 01:55

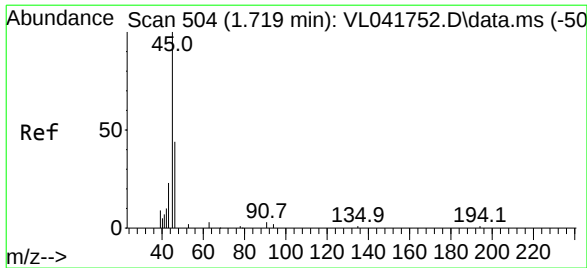
Tgt Ion:101 Resp: 14344

Ion Ratio Lower Upper

101 100

103 58.5 51.8 77.8





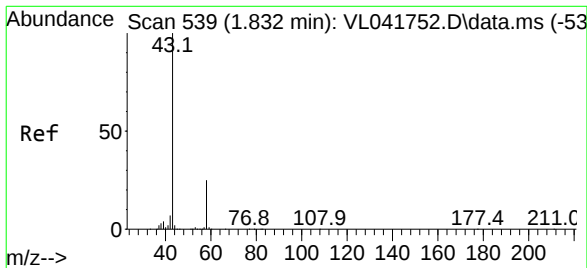
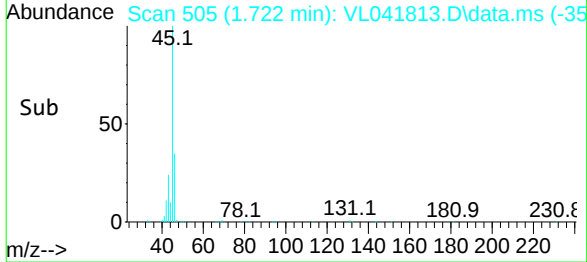
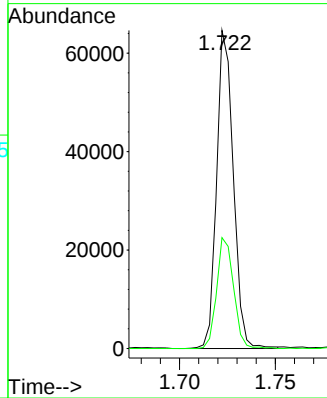
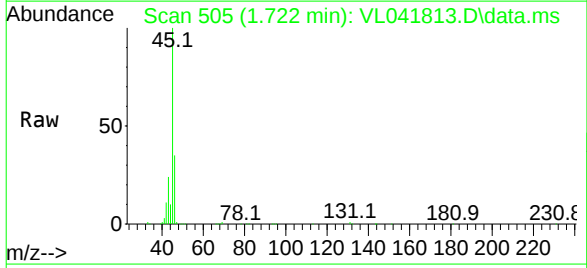
#13
Ethanol
Concen: 88.829 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

Instrument :
MSVOA_L
ClientSampleId :
C0AC6

Tgt Ion: 45 Resp: 39169
Ion Ratio Lower Upper
45 100
46 35.4 16.4 65.8

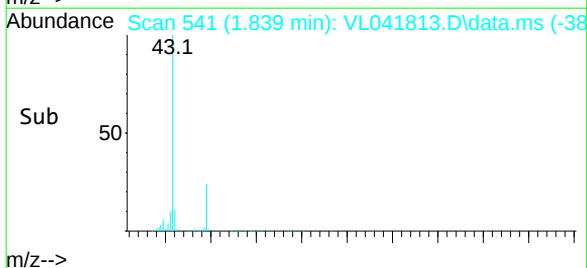
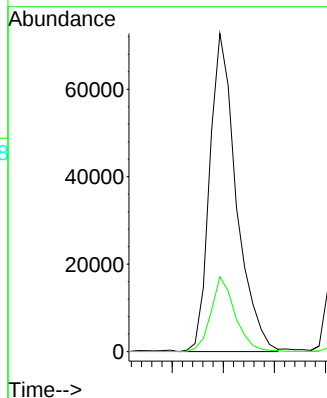
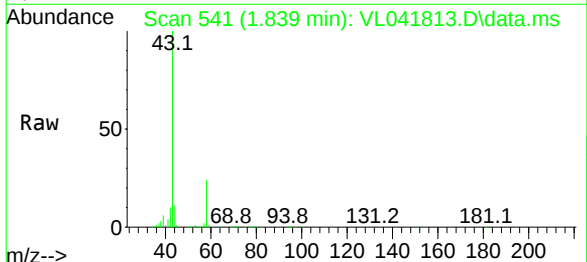
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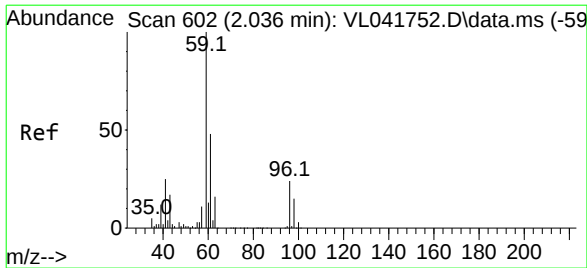
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#15
Acetone
Concen: 3.595 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

Tgt Ion: 43 Resp: 52705
Ion Ratio Lower Upper
43 100
58 21.4 19.7 29.5





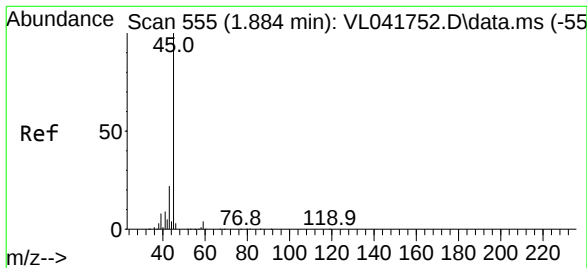
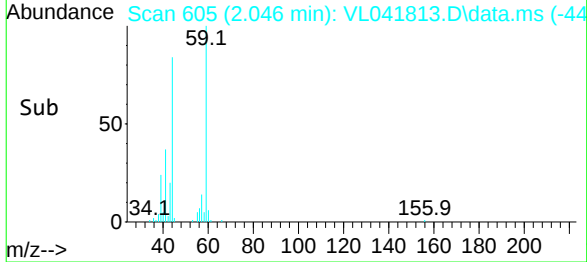
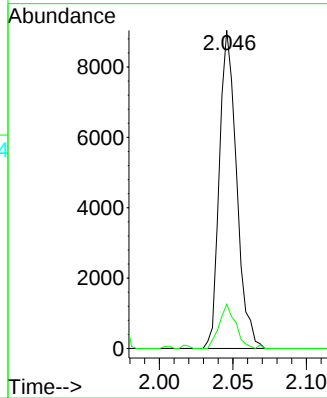
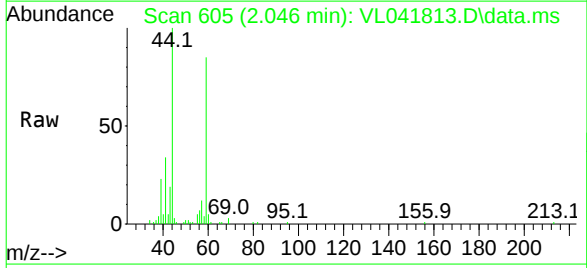
#17
tert-Butyl alcohol
Concen: 0.506 ppbv m
RT: 2.046 min Scan# 60
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

Instrument :
MSVOA_L
ClientSampleId :
C0AC6

Tgt Ion: 59 Resp: 7358
Ion Ratio Lower Upper
59 100
57 12.1 8.6 13.0

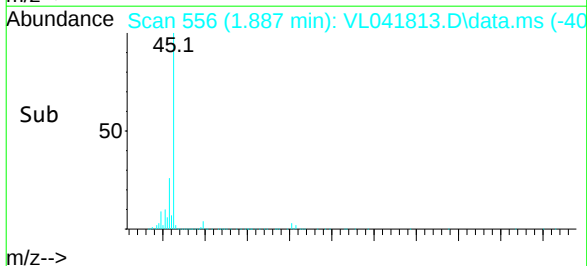
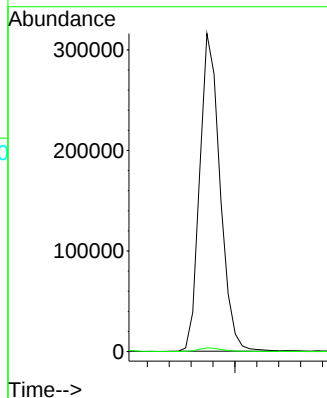
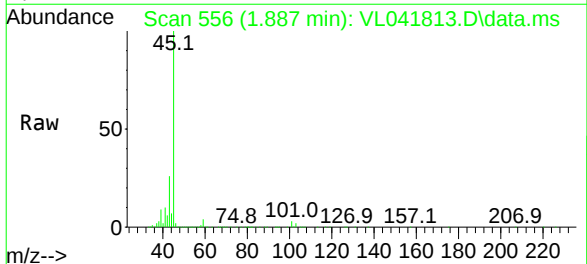
Manual Integrations
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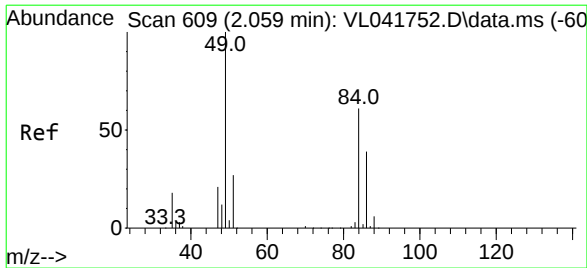
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#19
Isopropyl Alcohol
Concen: 23.109 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

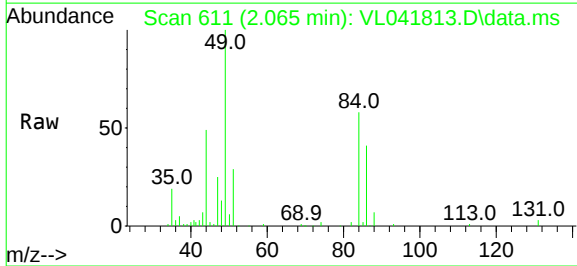
Tgt Ion: 45 Resp: 203262
Ion Ratio Lower Upper
45 100
58 1.5 33.3 49.9#





#20
Methylene Chloride
Concen: 2.087 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

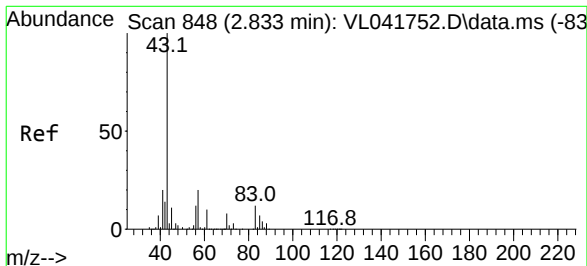
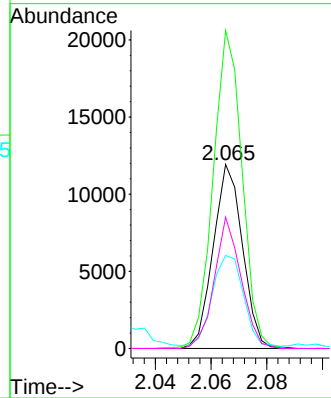
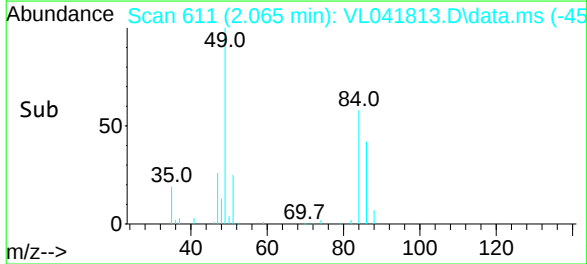
Instrument :
MSVOA_L
ClientSampleId :
C0AC6



Tgt Ion:	84	Resp:	8722
Ion	Ratio	Lower	Upper
84	100		
49	172.0	132.6	198.8
51	49.3	37.6	56.4
86	71.3	51.4	77.0

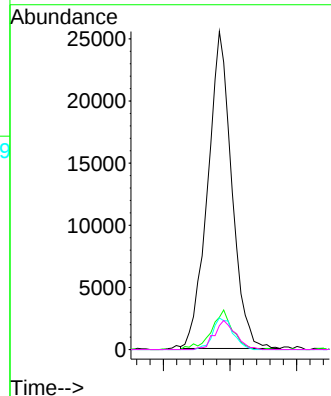
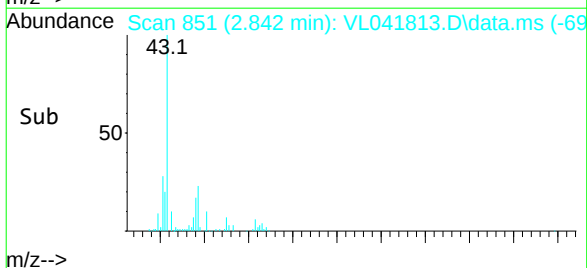
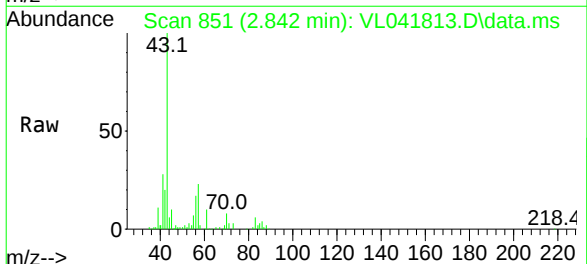
Manual Integrations
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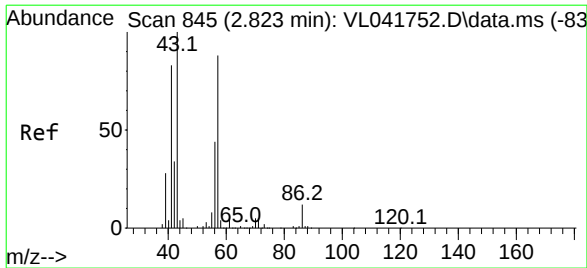
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#25
Ethyl Acetate
Concen: 1.173 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

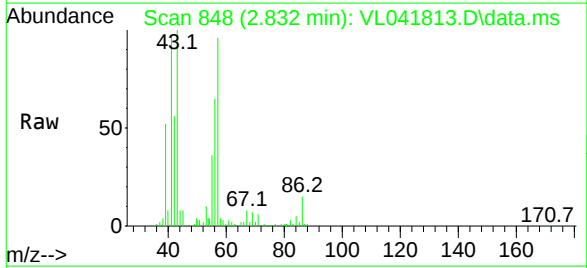
Tgt Ion:	43	Resp:	31983
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.1	12.1
61	8.4	7.0	10.6
70	8.1	6.5	9.7





#26
Hexane
Concen: 1.210 ppbv
RT: 2.832 min Scan# 845
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

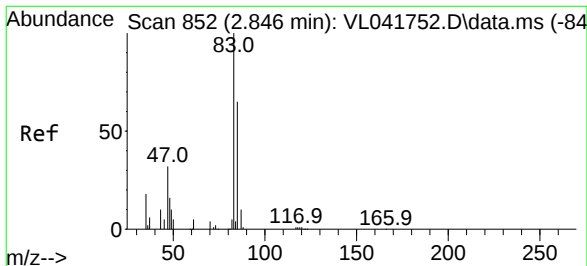
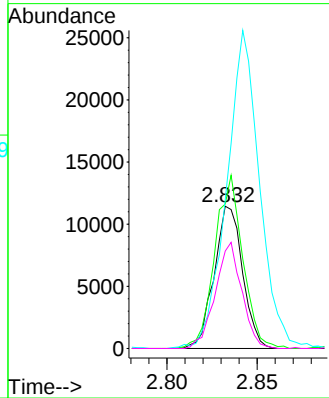
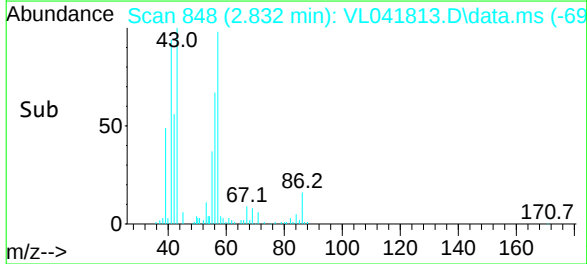
Instrument :
MSVOA_L
ClientSampleId :
C0AC6



Tgt Ion: 57 Resp: 12521
Ion Ratio Lower Upper
57 100
41 120.5 79.6 119.4#
43 262.0 211.0 316.6
56 69.8 42.6 63.8#

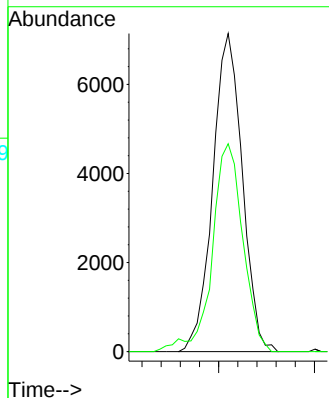
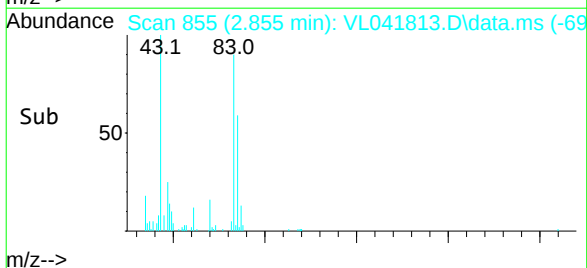
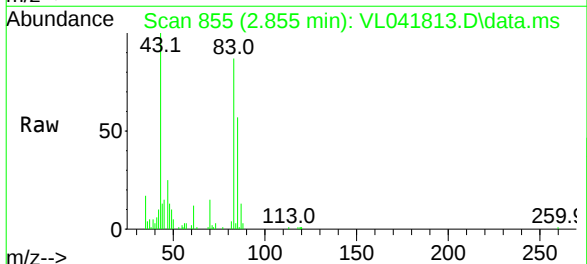
Manual Integrations
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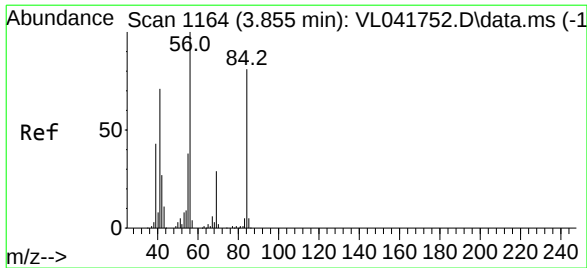
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#29
Chloroform
Concen: 0.485 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

Tgt Ion: 83 Resp: 7646
Ion Ratio Lower Upper
83 100
85 65.4 51.8 77.6





#30

Cyclohexane

Concen: 0.389 ppbv m

RT: 3.868 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL041813.D

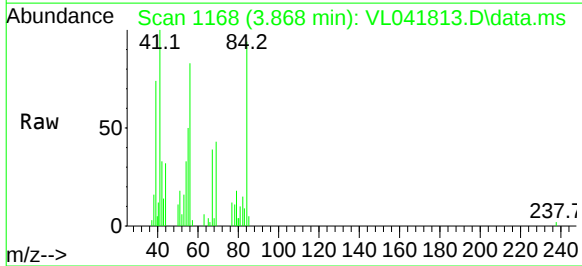
Acq: 19 Dec 2024 01:55

Instrument :

MSVOA_L

ClientSampleId :

C0AC6



Tgt Ion: 84 Resp: 3422

Ion Ratio Lower Upper

84 100

56 129.2 102.3 153.5

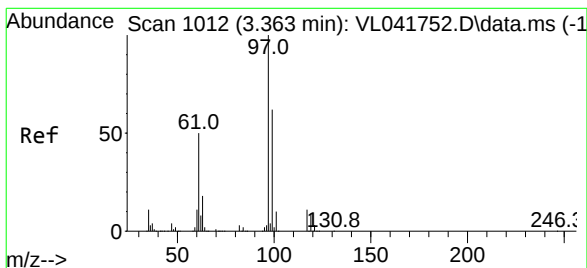
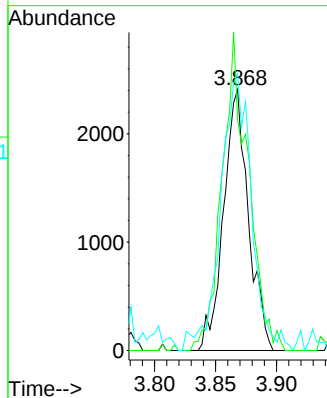
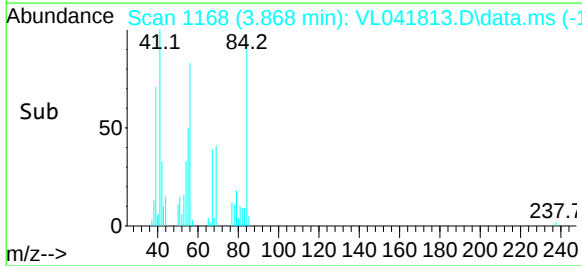
41 130.5 74.0 111.0#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/23/2024

Supervised By :Mahesh Dadoda 12/23/2024



#32

1,1,1-Trichloroethane

Concen: 2.347 ppbv

RT: 3.376 min Scan# 1016

Delta R.T. 0.013 min

Lab File: VL041813.D

Acq: 19 Dec 2024 01:55

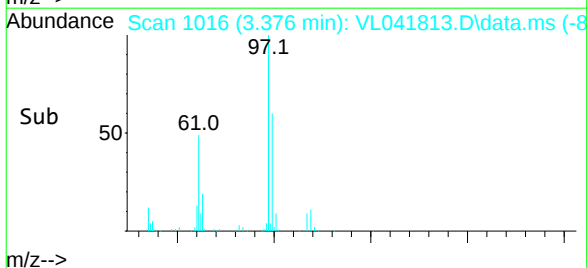
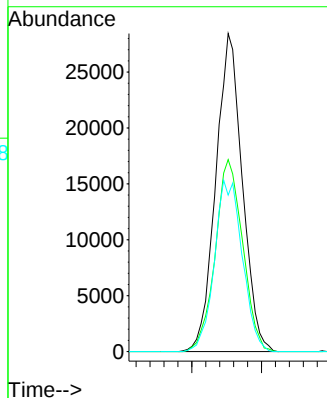
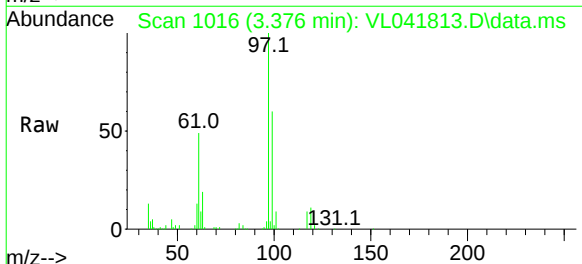
Tgt Ion: 97 Resp: 37621

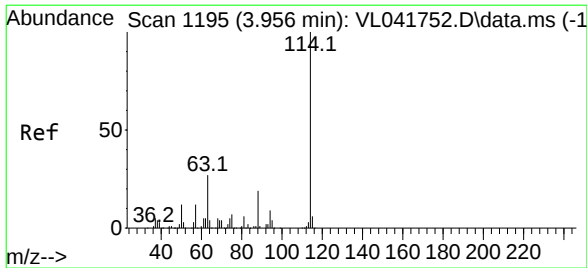
Ion Ratio Lower Upper

97 100

99 62.3 51.0 76.4

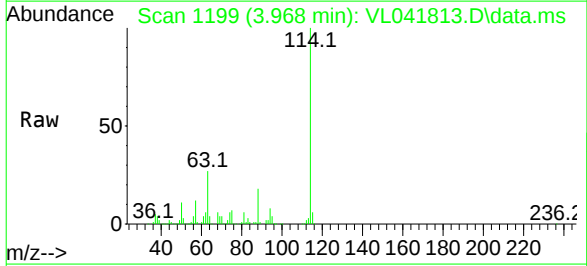
61 56.6 42.2 63.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.013 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

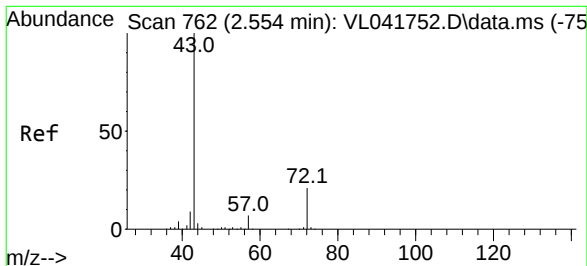
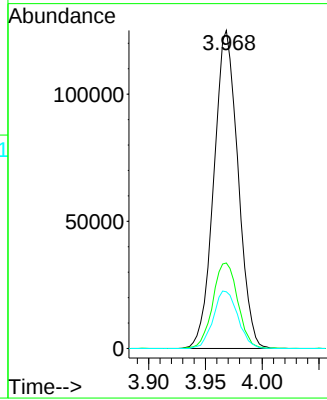
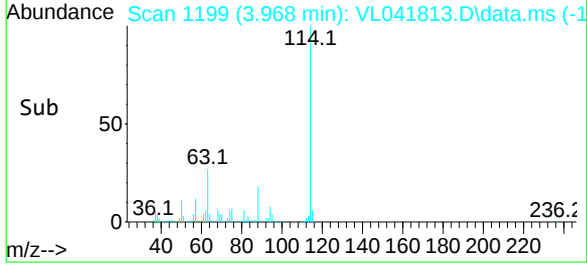
Instrument :
MSVOA_L
ClientSampleId :
C0AC6



Tgt Ion: 114 Resp: 184828
Ion Ratio Lower Upper
114 100
63 27.9 21.8 32.8
88 18.4 14.8 22.2

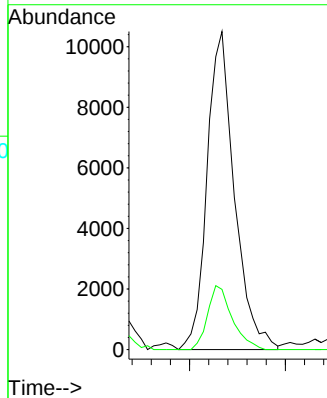
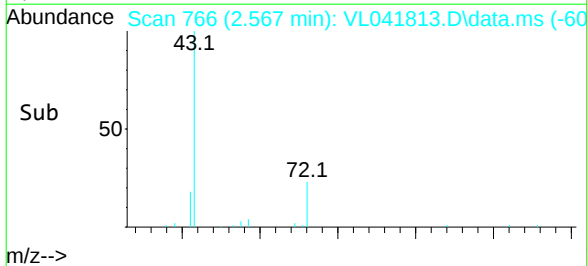
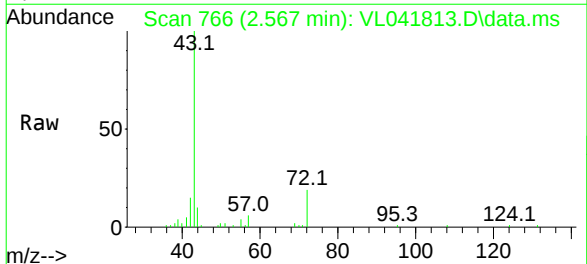
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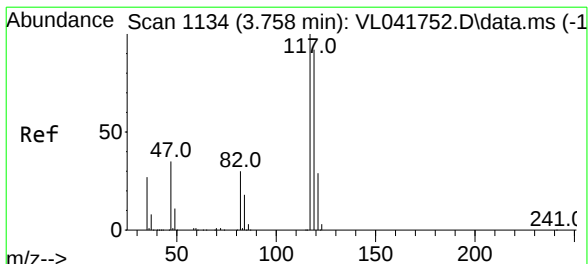
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#34
2-Butanone
Concen: 0.702 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

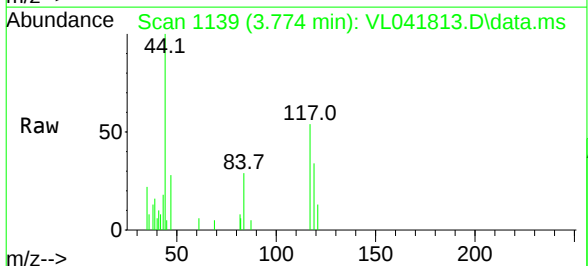
Tgt Ion: 43 Resp: 10439
Ion Ratio Lower Upper
43 100
72 18.0 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.774 min Scan# 1119
Delta R.T. 0.016 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

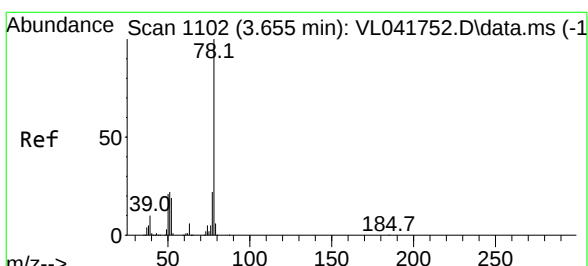
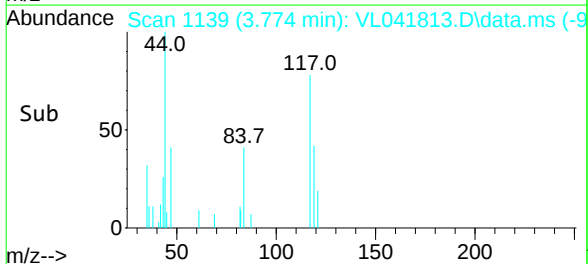
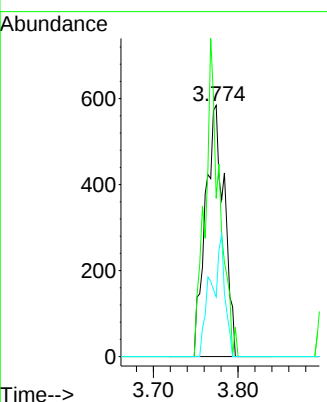
Instrument :
MSVOA_L
ClientSampleId :
C0AC6



Tgt Ion:	117	Resp:	896
Ion	Ratio	Lower	Upper
117	100		
119	63.0	73.7	110.5#
121	23.8	23.0	34.4

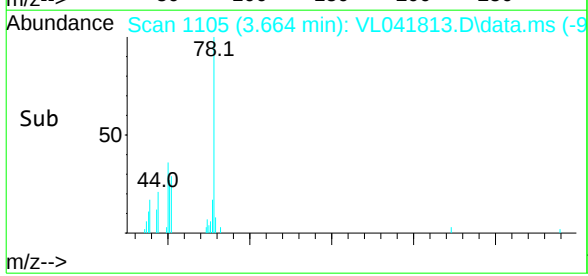
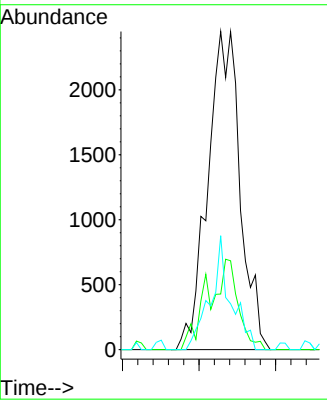
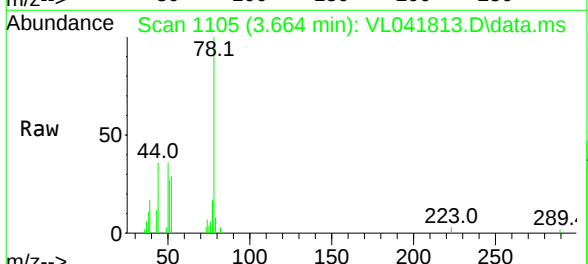
Manual Integrations
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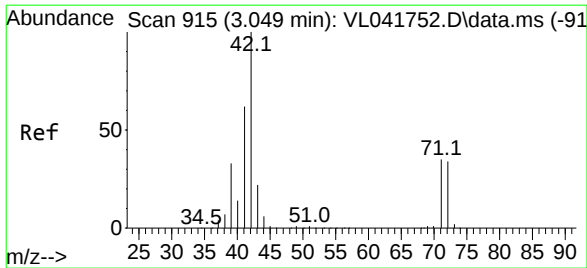
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#36
Benzene
Concen: 0.189 ppbv m
RT: 3.664 min Scan# 1105
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

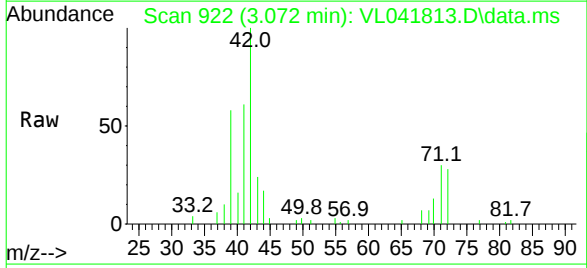
Tgt Ion:	78	Resp:	3612
Ion	Ratio	Lower	Upper
78	100		
77	17.5	17.8	26.6#
50	35.8	17.2	25.8#





#41
Tetrahydrofuran
Concen: 0.703 ppbv
RT: 3.072 min Scan# 921
Delta R.T. 0.022 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

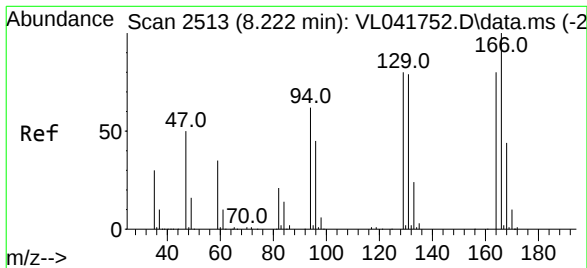
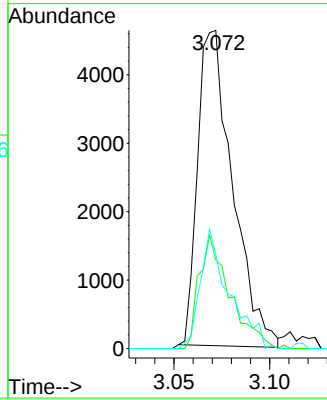
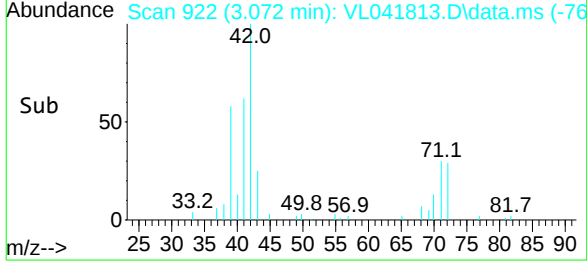
Instrument :
MSVOA_L
ClientSampleId :
C0AC6



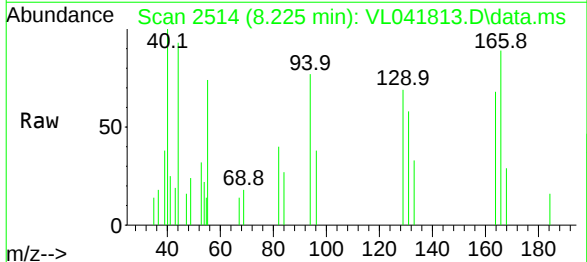
Tgt	Ion:	42	Resp:	5854
Ion	Ratio	Lower	Upper	
42	100			
72	31.6	29.1	43.7	
71	31.7	28.4	42.6	

Manual Integrations
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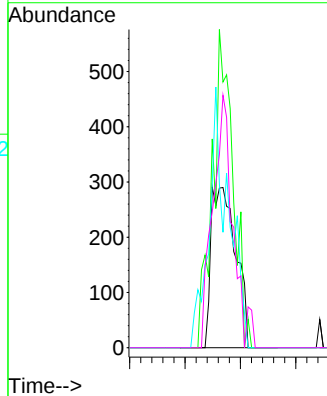
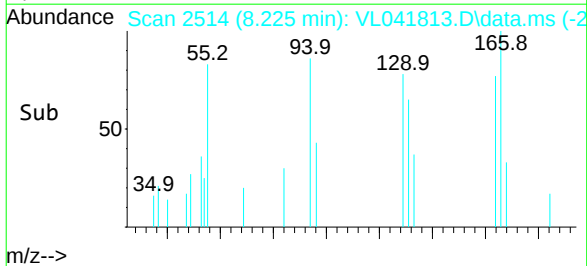
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024

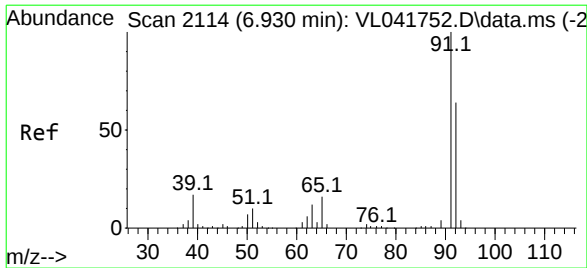


#52
Tetrachloroethene
Concen: 0.063 ppbv m
RT: 8.225 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55



Tgt	Ion:	164	Resp:	450
Ion	Ratio	Lower	Upper	
164	100			
166	129.9	99.8	149.6	
129	101.4	79.6	119.4	
131	84.5	78.6	117.8	





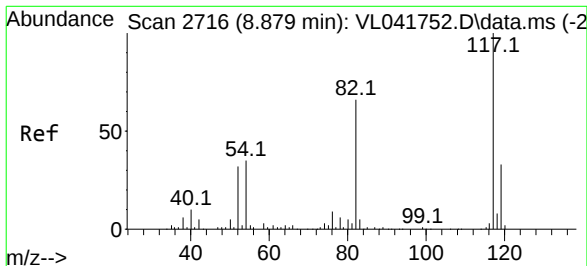
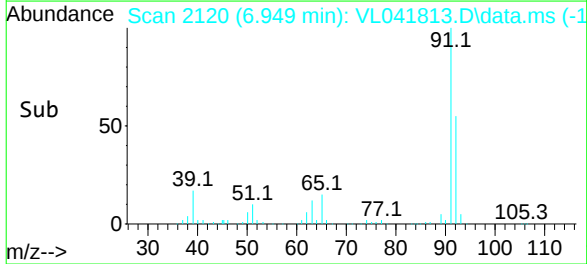
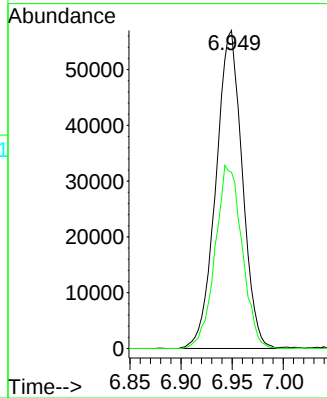
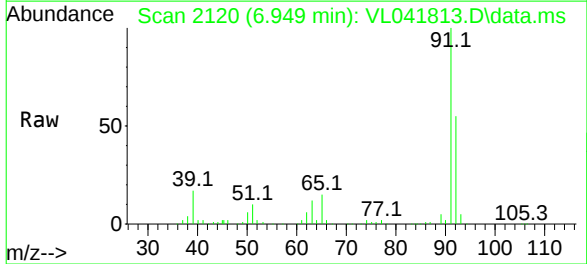
#53
Toluene
Concen: 4.717 ppbv
RT: 6.949 min Scan# 2114
Delta R.T. 0.019 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

Instrument :
MSVOA_L
ClientSampleId :
C0AC6

Tgt Ion: 91 Resp: 102249
Ion Ratio Lower Upper
91 100
92 58.9 47.9 71.9

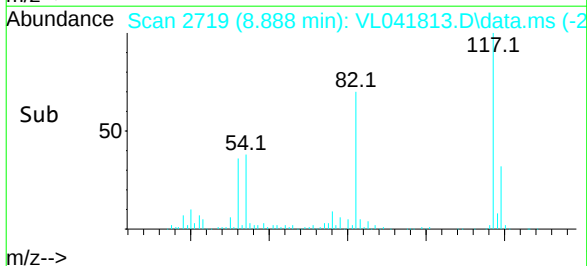
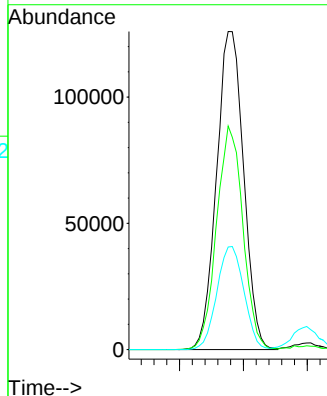
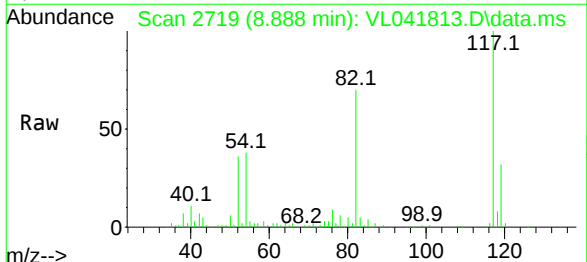
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APPROVED

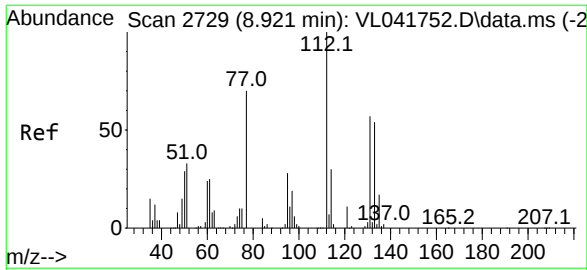
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

Tgt Ion:117 Resp: 185714
Ion Ratio Lower Upper
117 100
82 68.2 53.8 80.8
119 32.3 26.7 40.1





#57

Chlorobenzene

Concen: 0.178 ppbv

RT: 8.930 min Scan# 2729

Delta R.T. 0.009 min

Lab File: VL041813.D

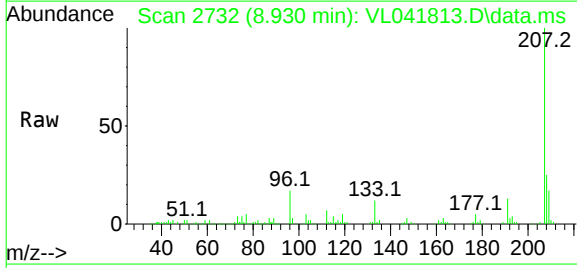
Acq: 19 Dec 2024 01:55

Instrument :

MSVOA_L

ClientSampleId :

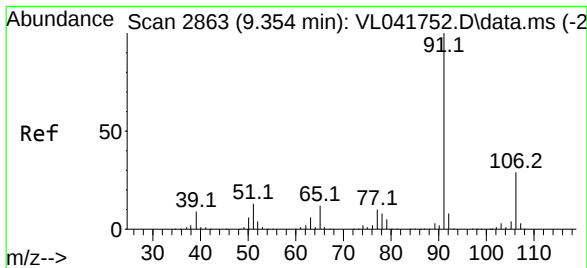
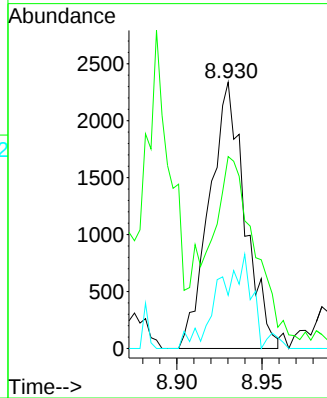
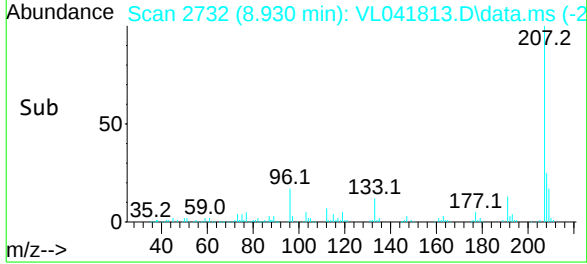
C0AC6



Tgt Ion	Ratio	Lower	Upper
112	100		
77	58.4	57.4	86.0
114	18.2	27.4	33.4

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Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#58

Ethyl Benzene

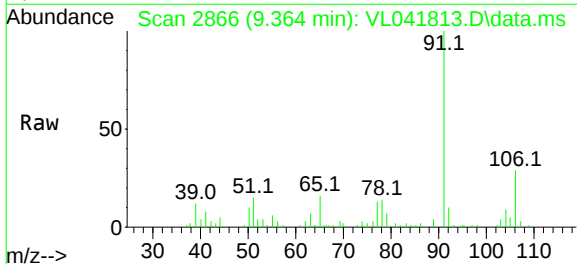
Concen: 0.465 ppbv

RT: 9.364 min Scan# 2866

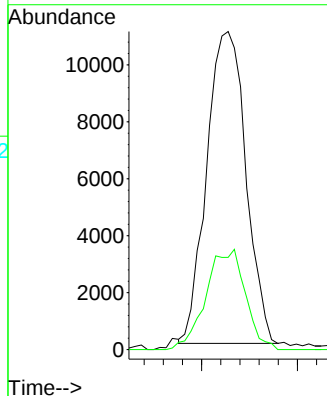
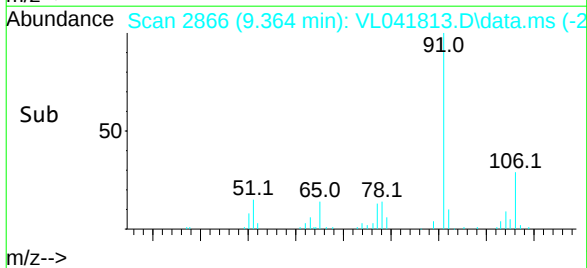
Delta R.T. 0.009 min

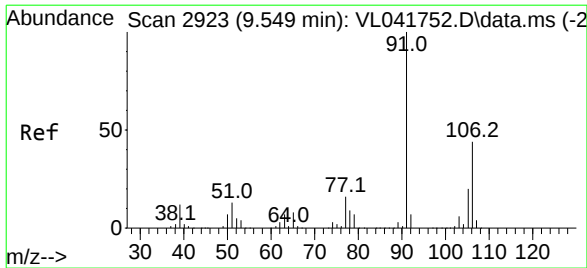
Lab File: VL041813.D

Acq: 19 Dec 2024 01:55



Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.5	35.3





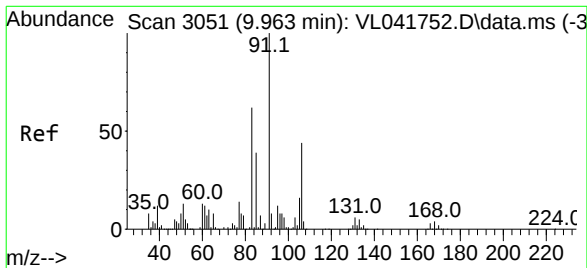
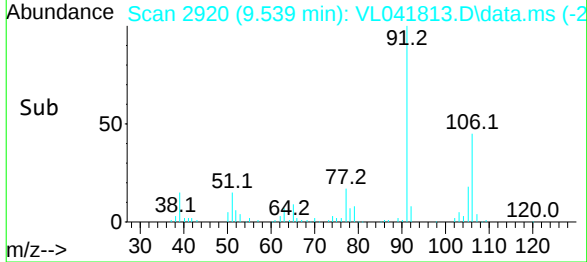
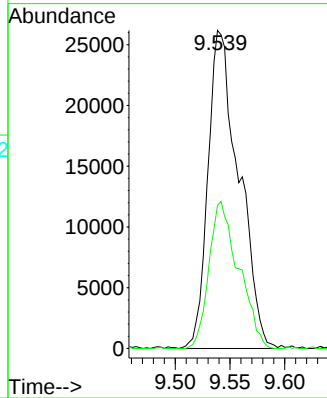
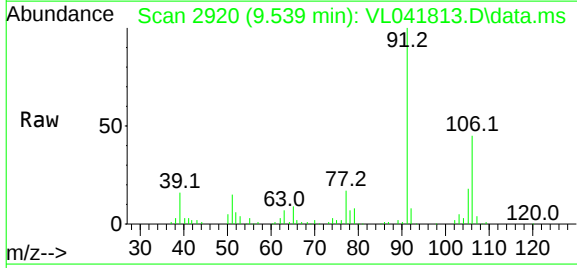
#59
m/p-Xylene
Concen: 1.907 ppbv
RT: 9.539 min Scan# 2923
Delta R.T. -0.010 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

Instrument : MSVOA_L
ClientSampleId : C0AC6

Tgt Ion: 91 Resp: 51273
Ion Ratio Lower Upper
91 100
106 44.6 0.0 0.0

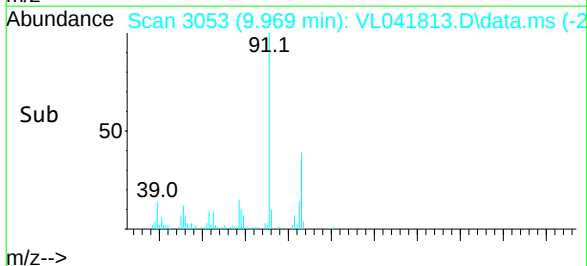
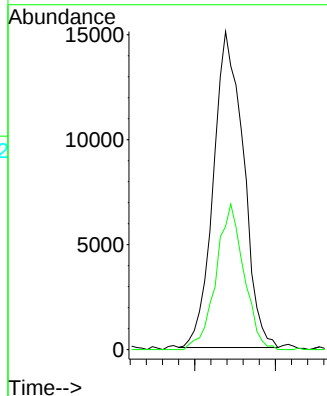
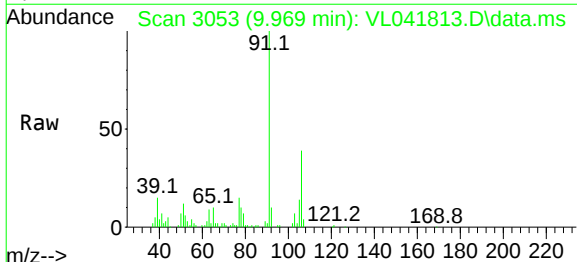
Manual Integrations
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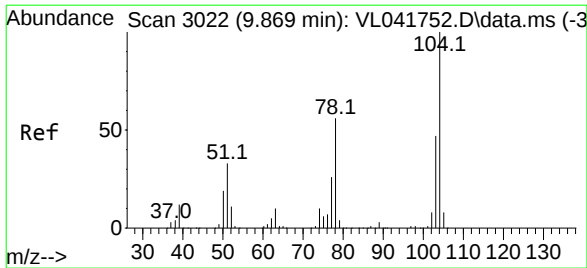
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/23/2024



#60
o-Xylene
Concen: 0.723 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.006 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

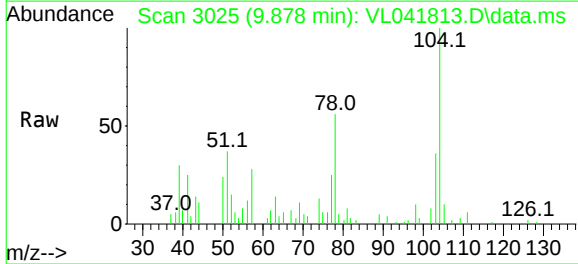
Tgt Ion: 91 Resp: 19501
Ion Ratio Lower Upper
91 100
106 42.6 21.1 63.4





#61
Styrene
Concen: 0.443 ppbv
RT: 9.878 min Scan# 3022
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55

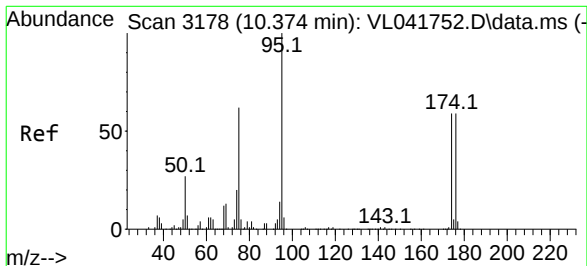
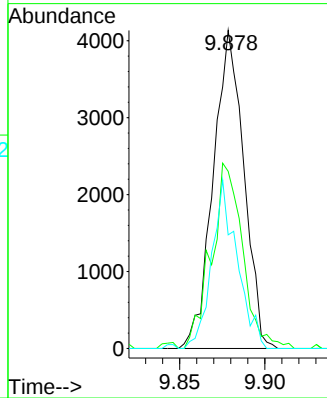
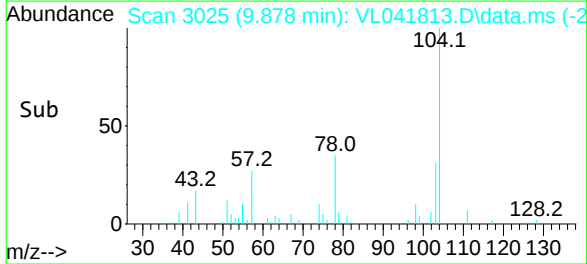
Instrument :
MSVOA_L
ClientSampleId :
C0AC6



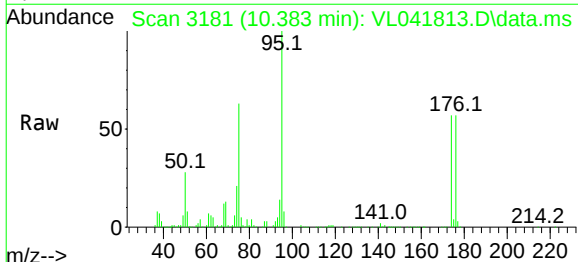
Tgt Ion: 104 Resp: 5166
Ion Ratio Lower Upper
104 100
78 60.2 43.8 65.6
103 44.2 37.8 56.6

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/23/2024
Supervised By : Mahesh Dadoda 12/23/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 9.640 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.009 min
Lab File: VL041813.D
Acq: 19 Dec 2024 01:55



Tgt Ion: 95 Resp: 149193
Ion Ratio Lower Upper
95 100
174 57.5 47.6 71.4
175 3.9 3.7 5.5

