

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042403.D
 Acq On : 21 Apr 2025 14:13
 Operator : SY/MD
 Sample : Q1844-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Apr 22 02:54:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin
 Yesilyurt
 04/22/2025
 Supervised By : Mahesh
 Dadoda
 04/22/2025

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

Internal Standards							
1) Bromochloromethane	2.781	49	132791	10.000	ppbv	0.00	
33) 1,4-Difluorobenzene	3.949	114	375368	10.000	ppbv	0.00	
55) Chlorobenzene-d5	8.875	117	317335	10.000	ppbv	0.00	
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.371	95	280008	10.738	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.400%	
Target Compounds							
2) Dichlorodifluoromethane	1.496	85	9172	0.391	ppbv		98
4) Chloromethane	1.528	50	4747	0.511	ppbv		97
9) Propene	1.483	41	991115m	97.413	ppbv		
10) Heptane	4.978	43	10676m	0.373	ppbv		
11) Trichlorofluoromethane	1.871	101	5354	0.240	ppbv		98
13) Ethanol	1.752	45	6779986	4192.544	ppbv		84
15) Acetone	1.836	43	495980	22.816	ppbv	#	87
17) tert-Butyl alcohol	2.046	59	138695	5.148	ppbv		100
19) Isopropyl Alcohol	1.894	45	1848877	153.105	ppbv	#	42
20) Methylene Chloride	2.059	84	5286	0.621	ppbv	#	95
26) Hexane	2.820	57	15516	0.715	ppbv		96
30) Cyclohexane	3.852	84	3893m	0.222	ppbv		
34) 2-Butanone	2.557	43	19516	0.657	ppbv		96
35) Carbon Tetrachloride	3.755	117	2399m	0.071	ppbv		
36) Benzene	3.651	78	516496	12.757	ppbv		98
44) 2,2,4-Trimethylpentane	4.635	57	24746	0.354	ppbv	#	82
52) Tetrachloroethene	8.215	164	304528	19.460	ppbv		94
53) Toluene	6.920	91	97818	2.013	ppbv		98
58) Ethyl Benzene	9.351	91	18455	0.294	ppbv		98
59) m/p-Xylene	9.529	91	41517m	0.820	ppbv		
60) o-Xylene	9.956	91	16241	0.318	ppbv		97
61) Styrene	9.863	104	9449	0.388	ppbv		98
69) p-Isopropyltoluene	11.921	119	8144	0.098	ppbv	#	86
74) 1,2,4-Trimethylbenzene	11.533	105	14817	0.230	ppbv	#	66
79) Naphthalene	13.510	128	39534	0.514	ppbv		97

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

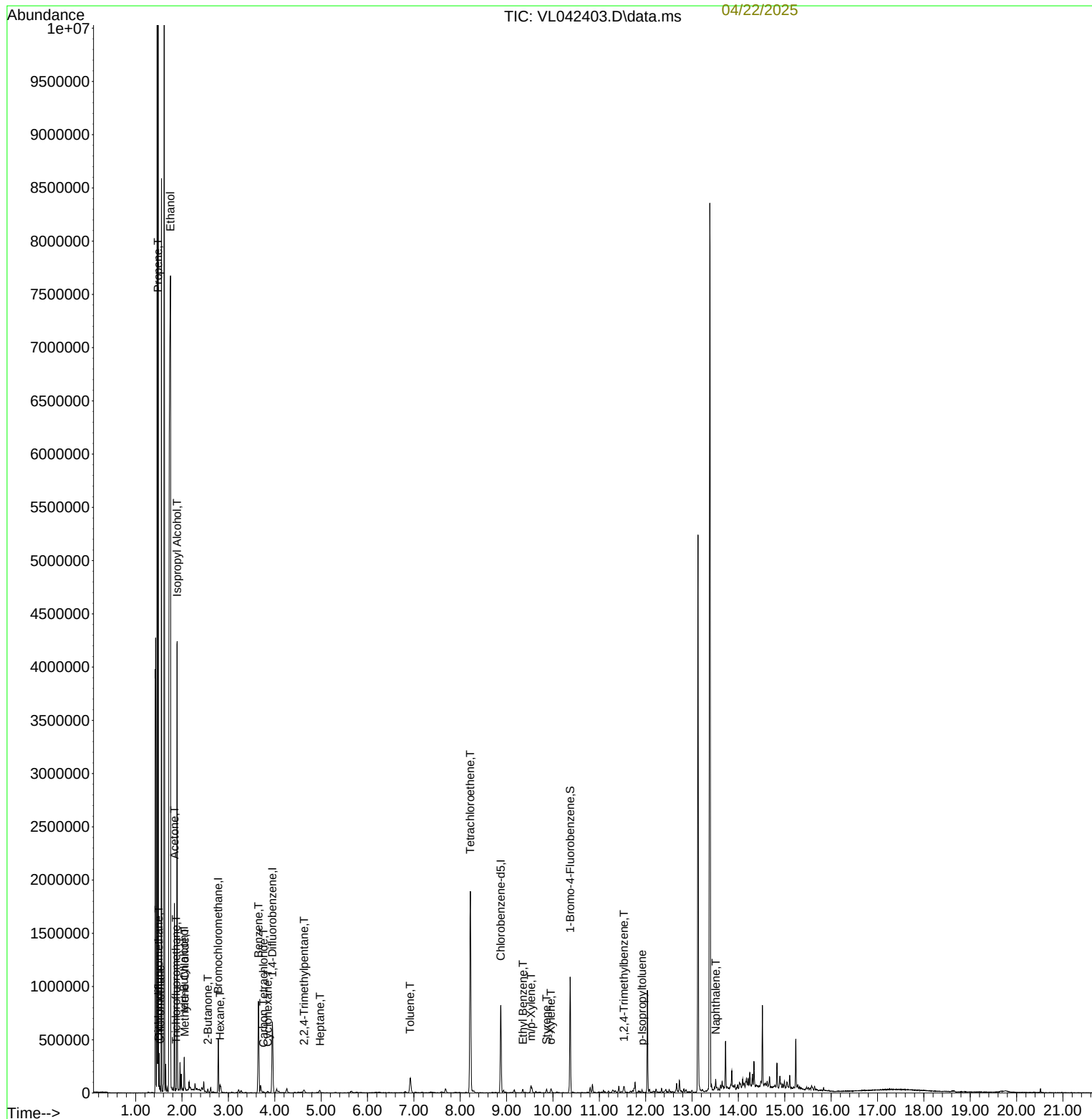
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
Data File : VL042403.D
Acq On : 21 Apr 2025 14:13
Operator : SY/MD
Sample : Q1844-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

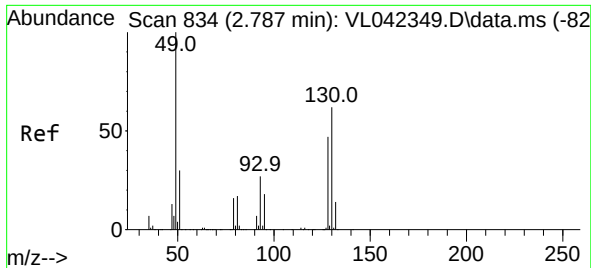
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Apr 22 02:54:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
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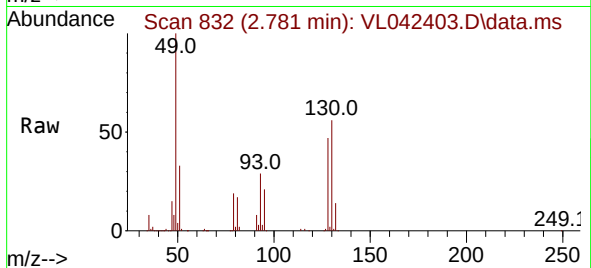
Reviewed By :Semsettin
Yesilyurt
04/22/2025
Supervised By :Mahesh
Dadoda
04/22/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

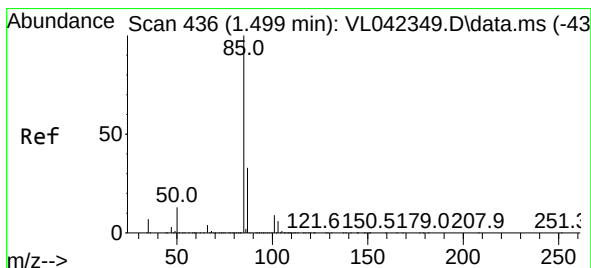
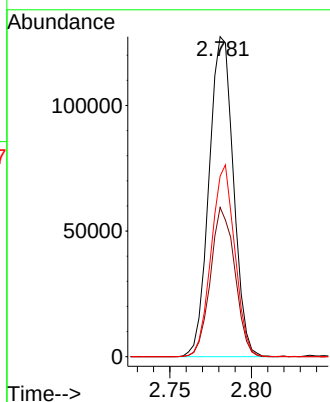
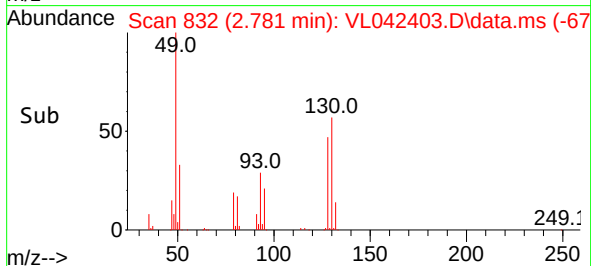
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 13279
Ion Ratio Lower Upper
49 100
128 46.3 22.8 68.4
130 57.7 29.3 88.0

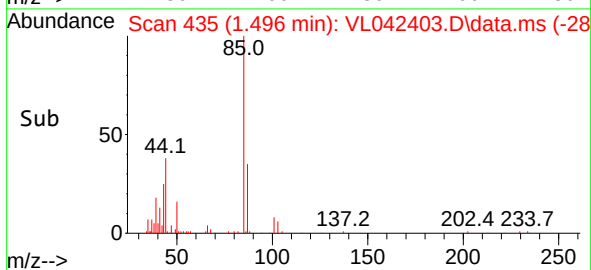
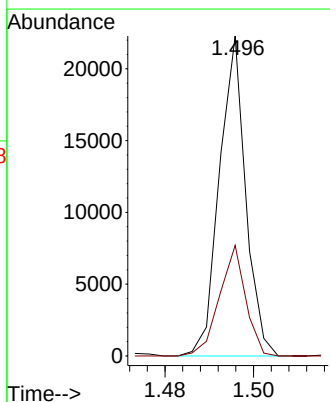
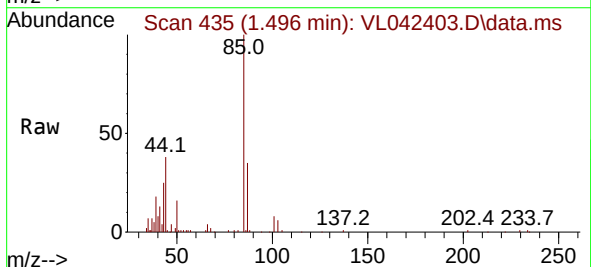
Manual Integrations
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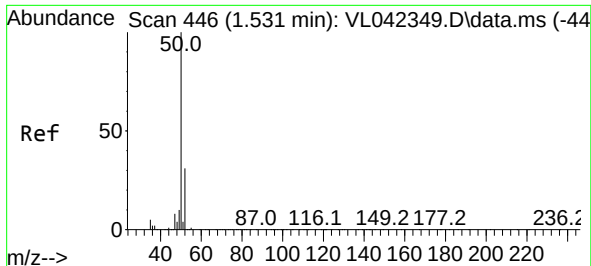
Reviewed By :Semsettin
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Supervised By :Mahesh
Dadoda
04/22/2025



#2
Dichlorodifluoromethane
Concen: 0.391 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

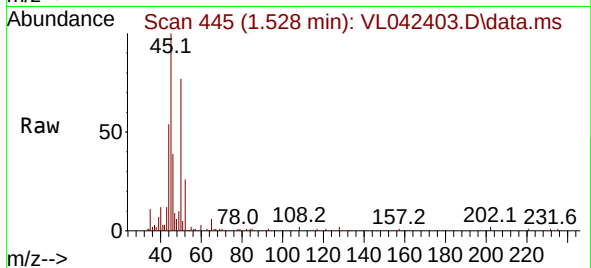
Tgt Ion: 85 Resp: 9172
Ion Ratio Lower Upper
85 100
87 34.6 26.6 39.8





#4
Chloromethane
Concen: 0.511 ppbv
RT: 1.528 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

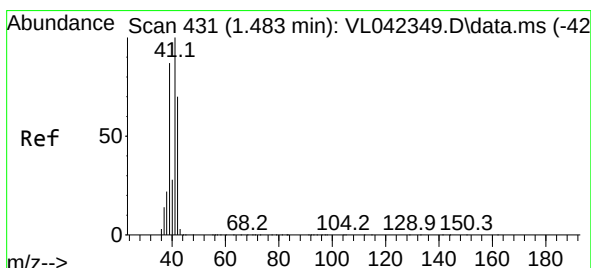
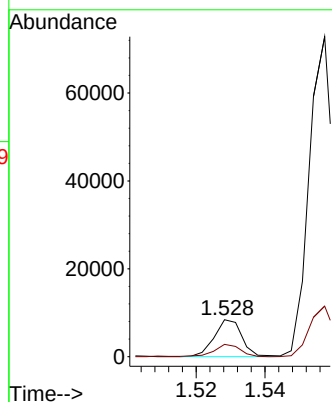
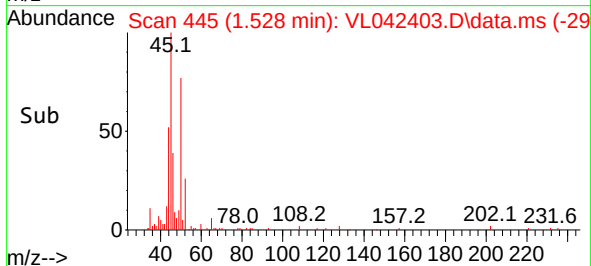
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 50 Resp: 474
Ion Ratio Lower Upper
50 100
52 32.5 24.7 37.1

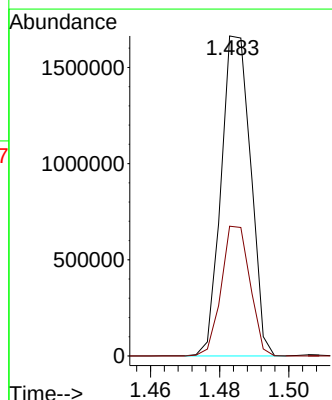
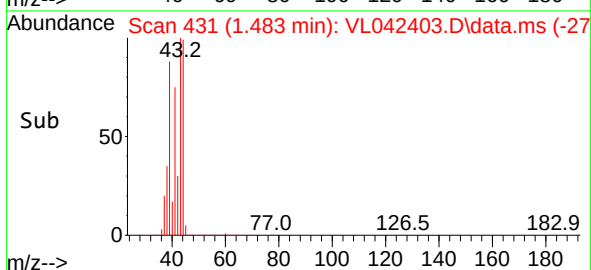
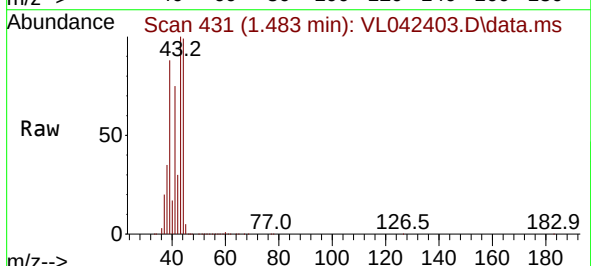
Manual Integrations
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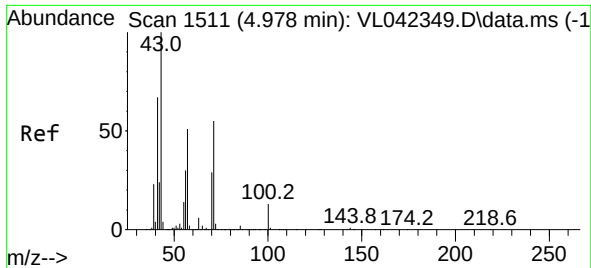
Reviewed By :Semsettin
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04/22/2025
Supervised By :Mahesh
Dadoda
04/22/2025



#9
Propene
Concen: 97.413 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. 0.000 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

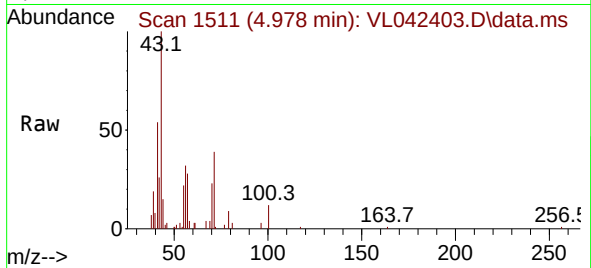
Tgt Ion: 41 Resp: 991115
Ion Ratio Lower Upper
41 100
42 86.2 56.2 84.4#





#10
Heptane
Concen: 0.373 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

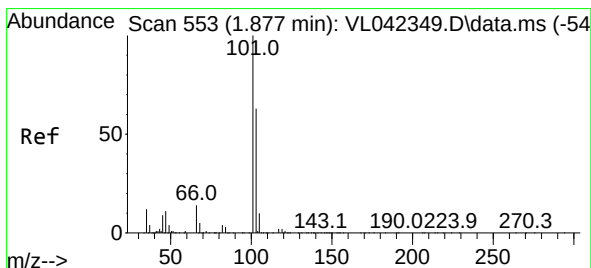
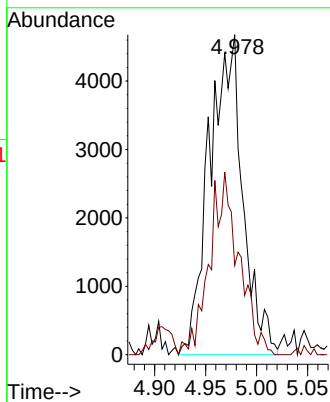
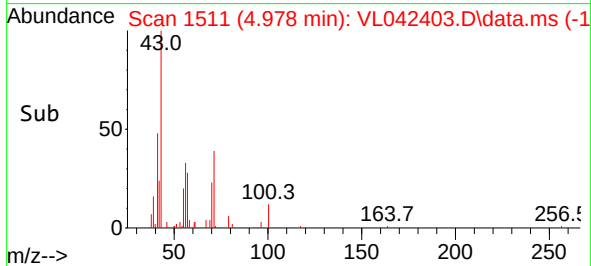
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 10670
Ion Ratio Lower Upper
43 100
57 50.0 39.9 59.9

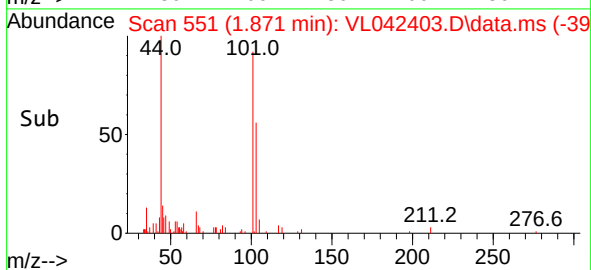
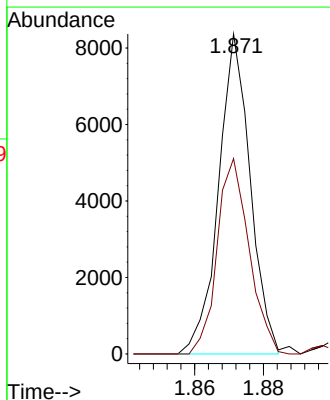
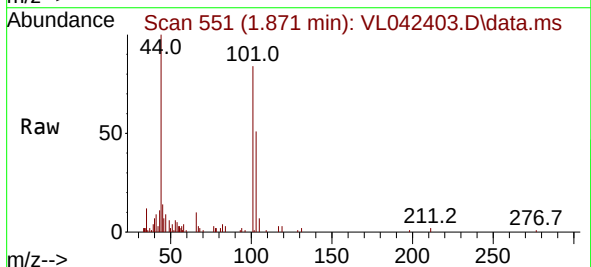
Manual Integrations
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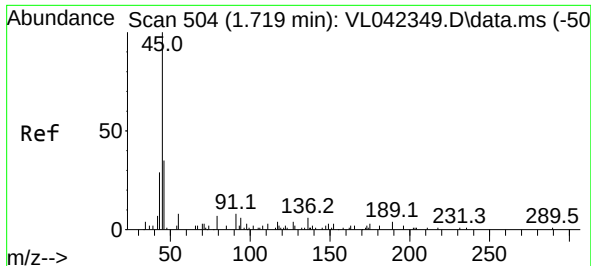
Reviewed By :Semsettin
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04/22/2025
Supervised By :Mahesh
Dadoda
04/22/2025



#11
Trichlorofluoromethane
Concen: 0.240 ppbv
RT: 1.871 min Scan# 551
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

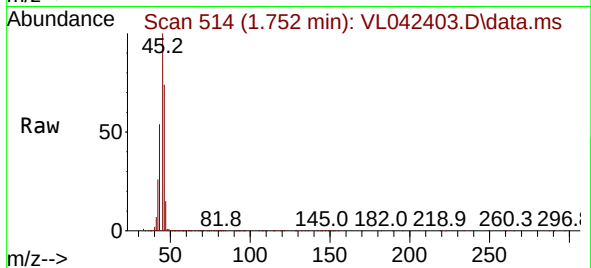
Tgt Ion:101 Resp: 5354
Ion Ratio Lower Upper
101 100
103 61.0 50.1 75.1





#13
Ethanol
Concen: 4192.544 ppbv
RT: 1.752 min Scan# 514
Delta R.T. 0.033 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

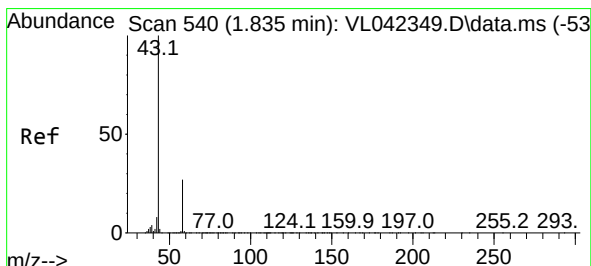
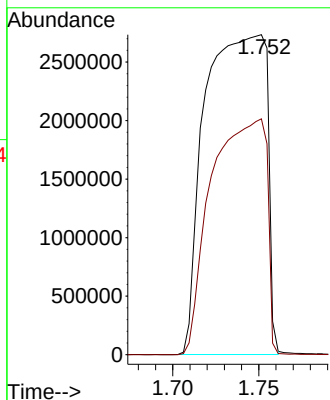
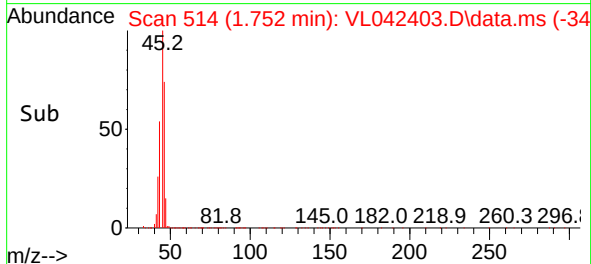
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp: 6779980
Ion Ratio Lower Upper
45 100
46 66.4 21.9 87.7

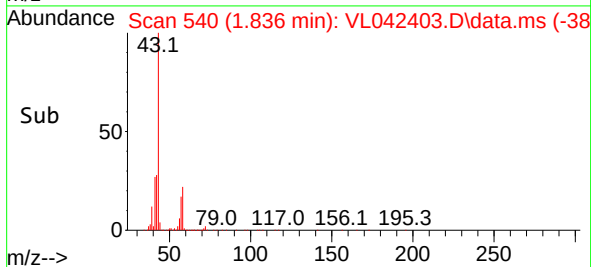
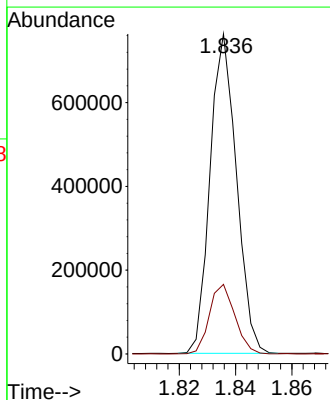
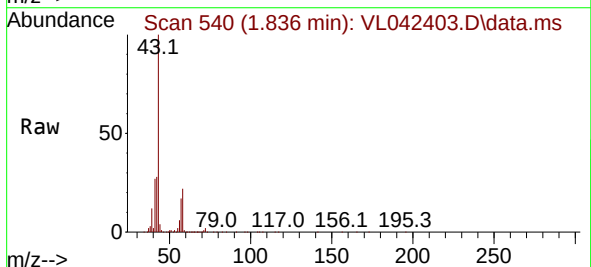
Manual Integrations
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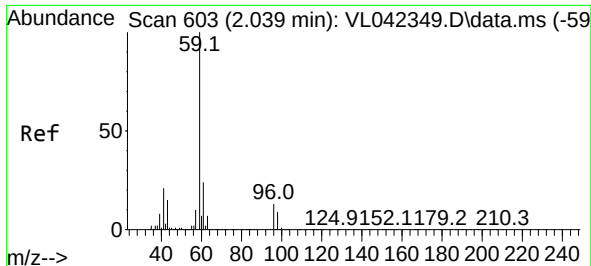
Reviewed By :Semsettin
Yesilyurt
04/22/2025
Supervised By :Mahesh
Dadoda
04/22/2025



#15
Acetone
Concen: 22.816 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

Tgt Ion: 43 Resp: 495980
Ion Ratio Lower Upper
43 100
58 21.2 22.4 33.6#





#17

tert-Butyl alcohol

Concen: 5.148 ppbv

RT: 2.046 min Scan# 603

Delta R.T. 0.007 min

Lab File: VL042403.D

Acq: 21 Apr 2025 14:13

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 59 Resp: 13869

Ion Ratio Lower Upper

59 100

57 11.1 8.7 13.1

Manual Integrations

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Reviewed By :Semsettin

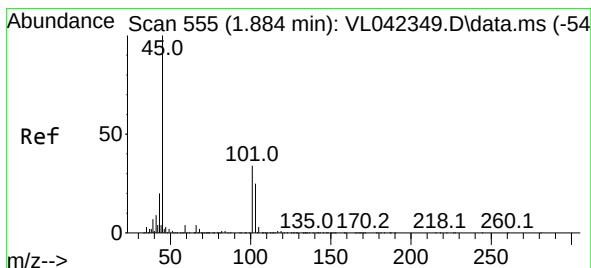
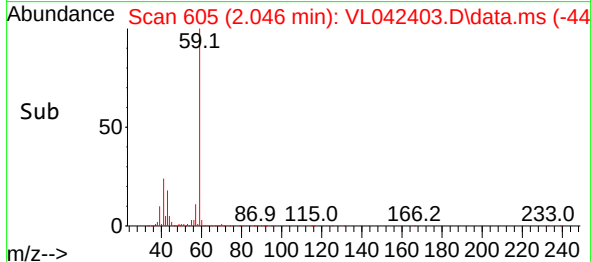
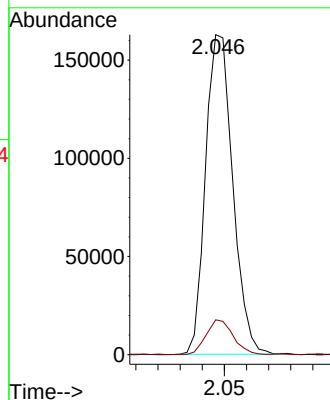
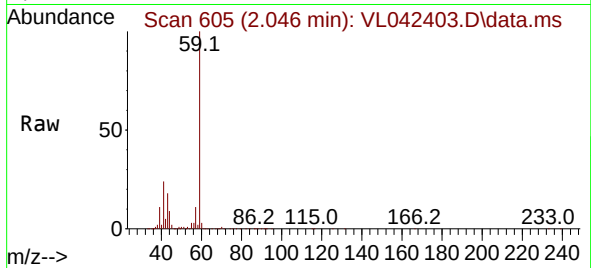
Yesilyurt

04/22/2025

Supervised By :Mahesh

Dadoda

04/22/2025



#19

Isopropyl Alcohol

Concen: 153.105 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.010 min

Lab File: VL042403.D

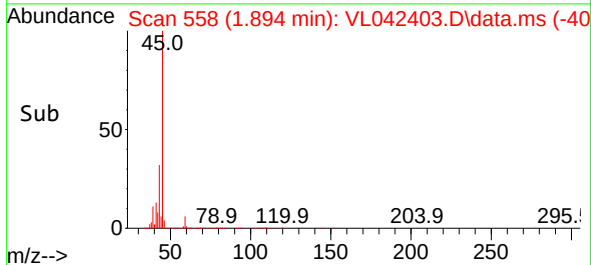
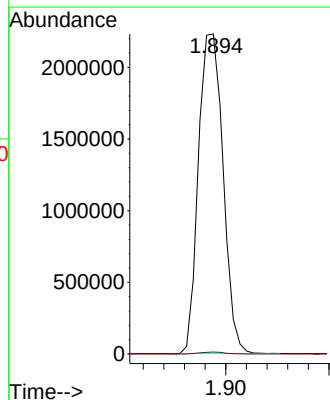
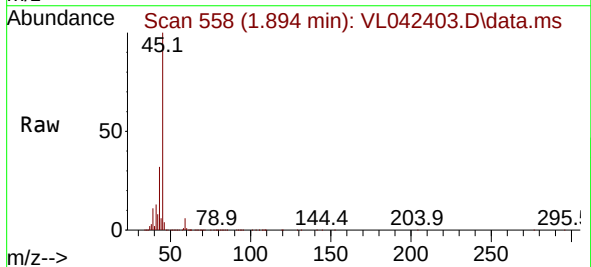
Acq: 21 Apr 2025 14:13

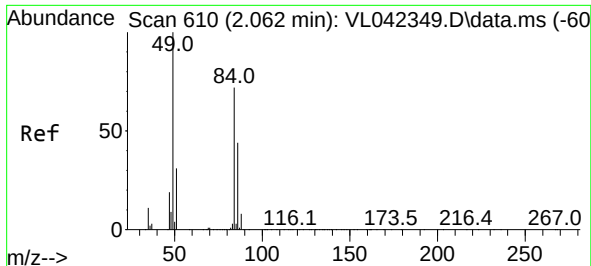
Tgt Ion: 45 Resp: 1848877

Ion Ratio Lower Upper

45 100

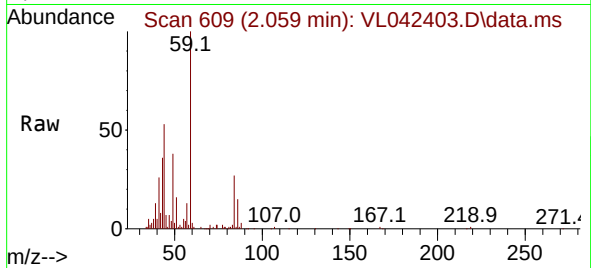
58 5.7 34.5 51.7#





#20
Methylene Chloride
Concen: 0.621 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

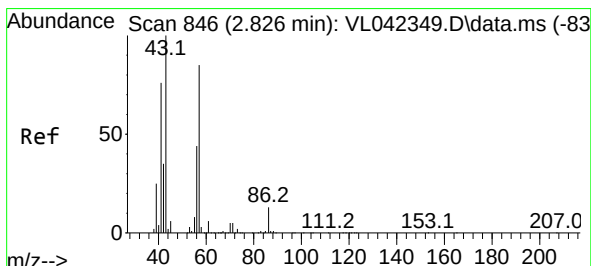
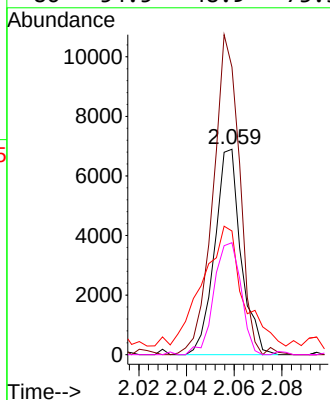
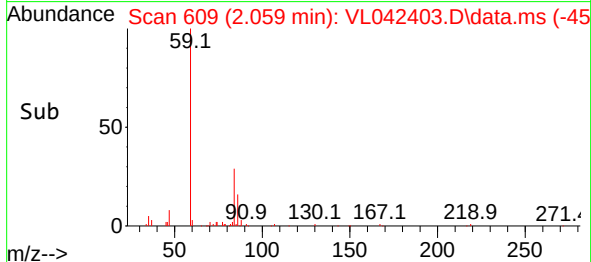


Tgt Ion: 84 Resp: 5280
Ion Ratio Lower Upper
84 100
49 139.3 111.6 167.4
51 53.6 35.1 52.7
86 54.5 48.9 73.3

Manual Integrations
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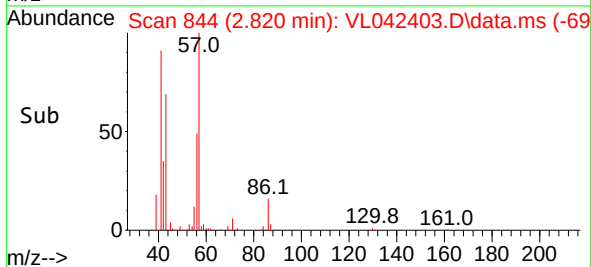
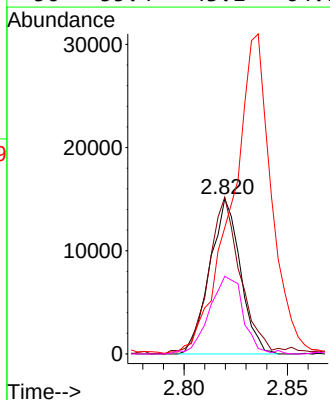
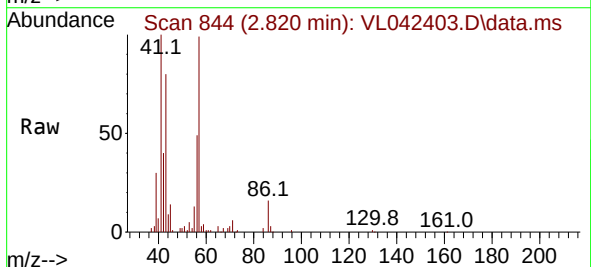
Reviewed By :Semsettin
Yesilyurt
04/22/2025

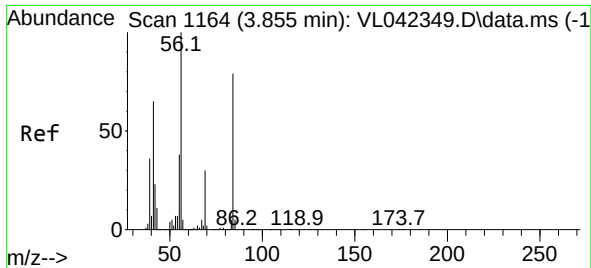
Supervised By :Mahesh
Dadoda
04/22/2025



#26
Hexane
Concen: 0.715 ppbv
RT: 2.820 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

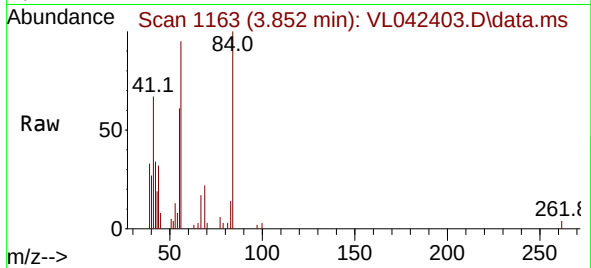
Tgt Ion: 57 Resp: 15516
Ion Ratio Lower Upper
57 100
41 105.4 77.9 116.9
43 266.4 208.4 312.6
56 55.4 43.1 64.7





#30
Cyclohexane
Concen: 0.222 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

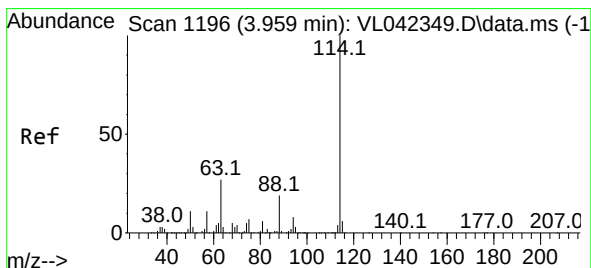
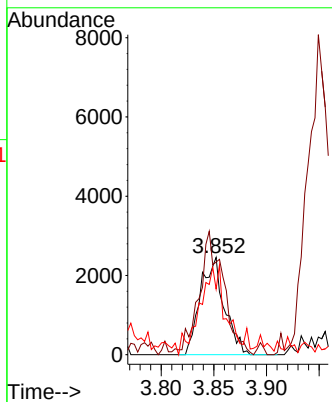
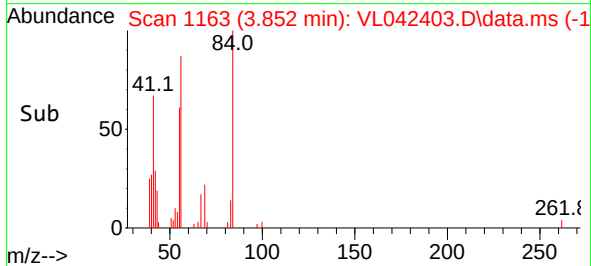


Tgt Ion: 84 Resp: 389
Ion Ratio Lower Upper
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56 134.9 101.0 151.4
41 79.7 67.4 101.0

Manual Integrations
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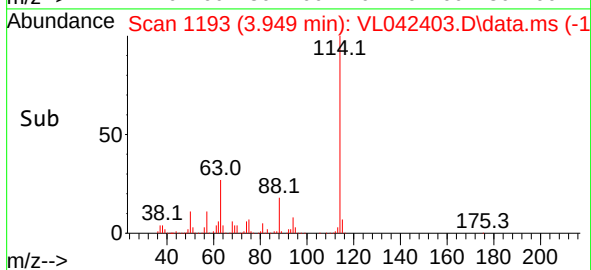
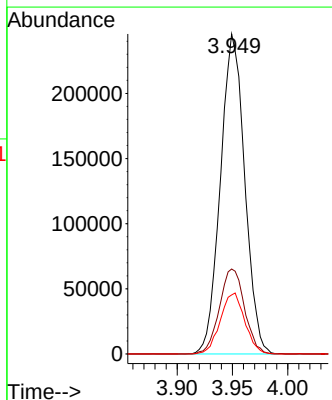
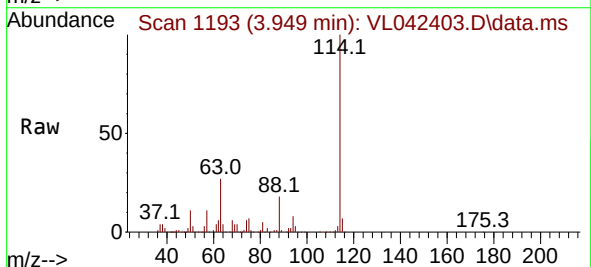
Reviewed By :Semsettin
Yesilyurt
04/22/2025

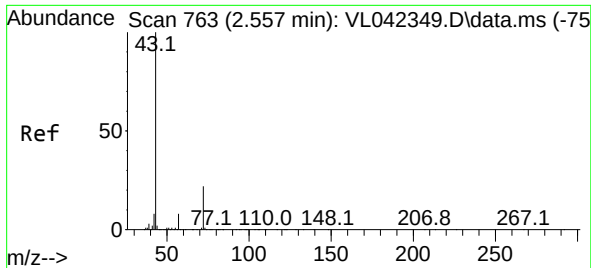
Supervised By :Mahesh
Dadoda
04/22/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.009 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

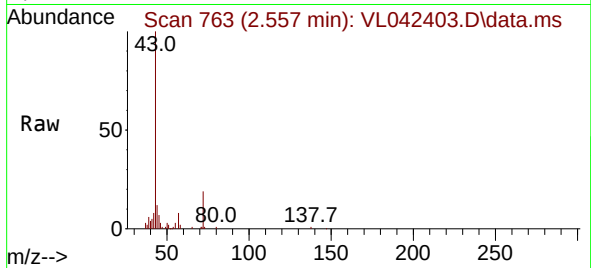
Tgt Ion:114 Resp: 375368
Ion Ratio Lower Upper
114 100
63 27.5 21.8 32.6
88 19.2 15.5 23.3





#34
2-Butanone
Concen: 0.657 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

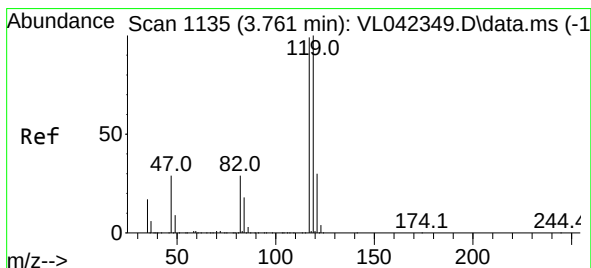
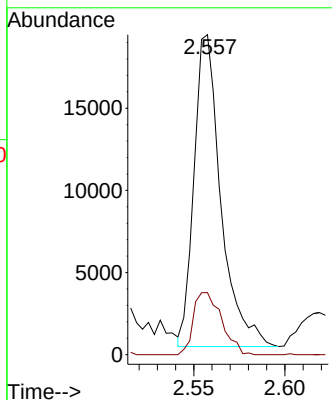
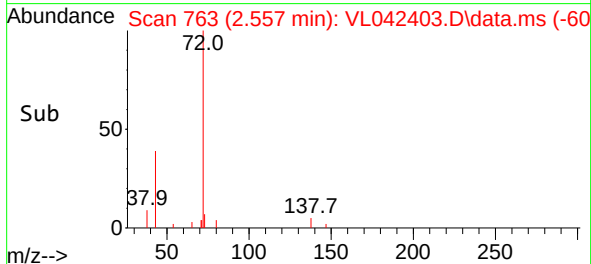
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



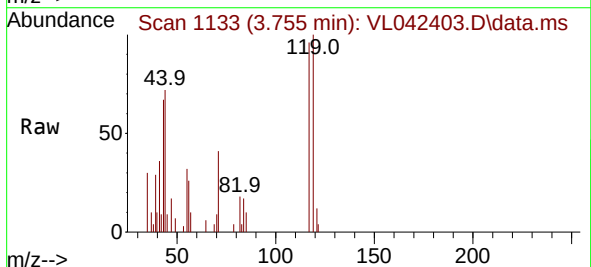
Tgt Ion: 43 Resp: 19510
Ion Ratio Lower Upper
43 100
72 20.9 18.2 27.2

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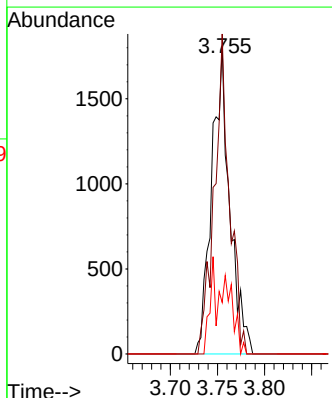
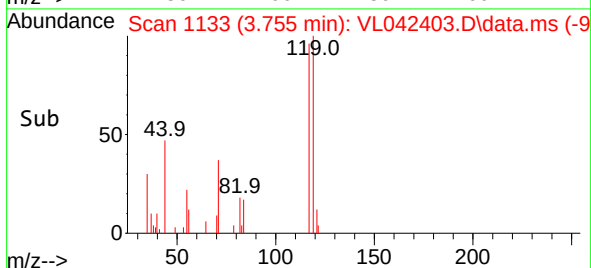
Reviewed By :Semsettin
Yesilyurt
04/22/2025
Supervised By :Mahesh
Dadoda
04/22/2025

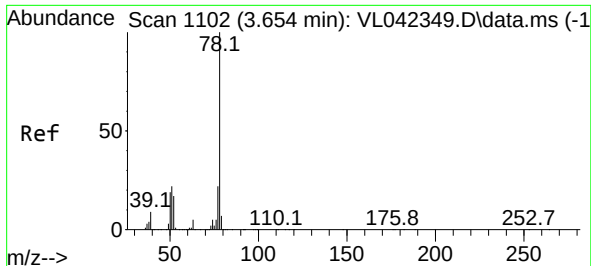


#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13



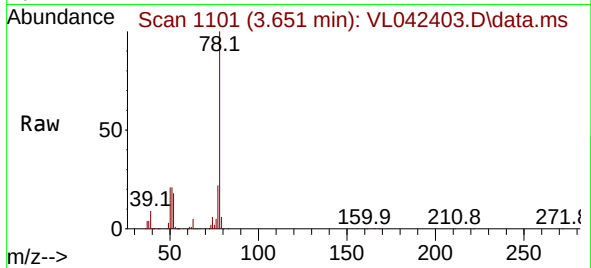
Tgt Ion:117 Resp: 2399
Ion Ratio Lower Upper
117 100
119 104.0 80.5 120.7
121 12.7 24.2 36.2#





#36
Benzene
Concen: 12.757 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

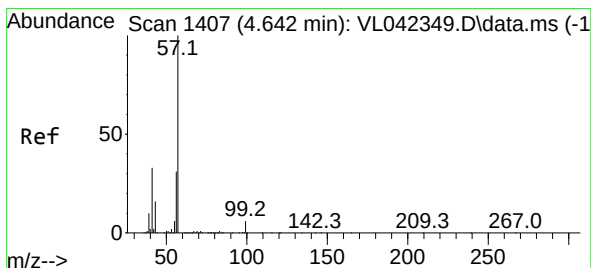
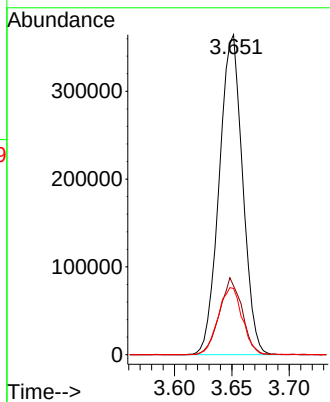
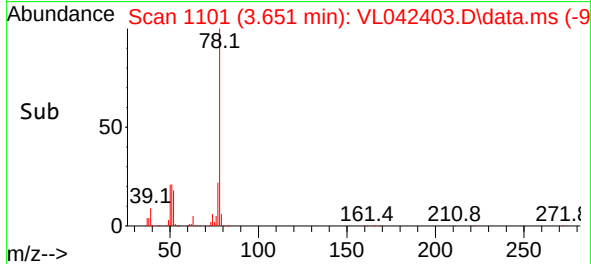
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 78 Resp: 516490
Ion Ratio Lower Upper
78 100
77 21.5 17.4 26.0
50 20.7 15.5 23.3

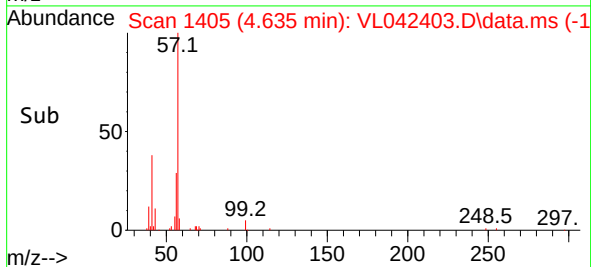
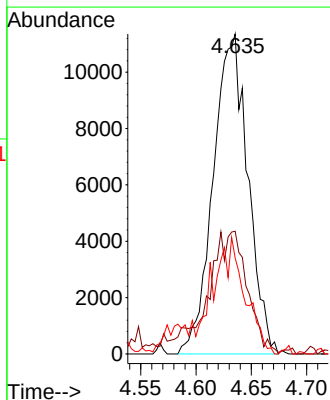
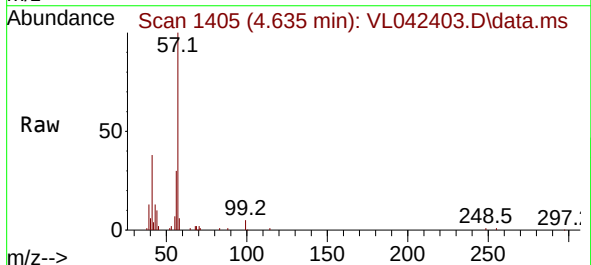
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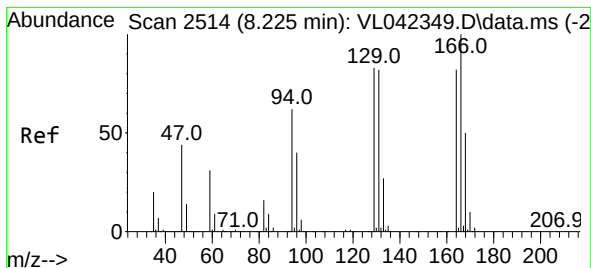
Reviewed By :Semsettin
Yesilyurt
04/22/2025
Supervised By :Mahesh
Dadoda
04/22/2025



#44
2,2,4-Trimethylpentane
Concen: 0.354 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

Tgt Ion: 57 Resp: 24746
Ion Ratio Lower Upper
57 100
41 45.6 27.2 40.8#
56 41.0 25.7 38.5#





#52

Tetrachloroethene

Concen: 19.460 ppbv

RT: 8.215 min Scan# 2111

Delta R.T. -0.009 min

Lab File: VL042403.D

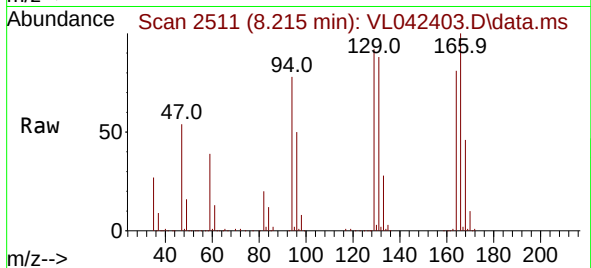
Acq: 21 Apr 2025 14:13

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP



Tgt Ion:164 Resp: 304528

Ion Ratio Lower Upper

164 100

166 123.5 98.2 147.2

129 113.3 81.8 122.8

131 109.0 80.5 120.7

Manual Integrations

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Reviewed By :Semsettin

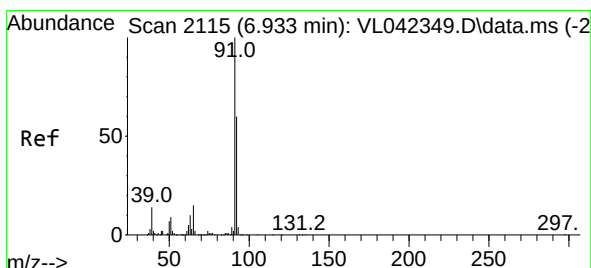
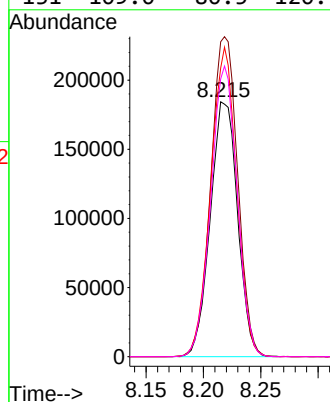
Yesilyurt

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#53

Toluene

Concen: 2.013 ppbv

RT: 6.920 min Scan# 2111

Delta R.T. -0.013 min

Lab File: VL042403.D

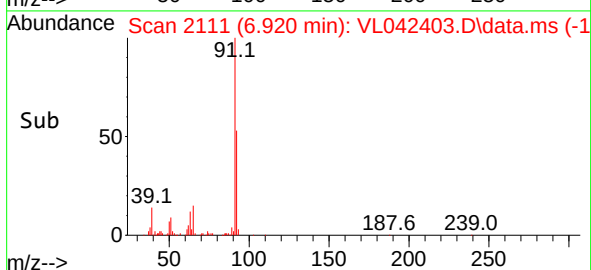
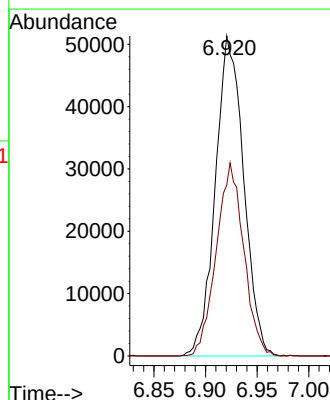
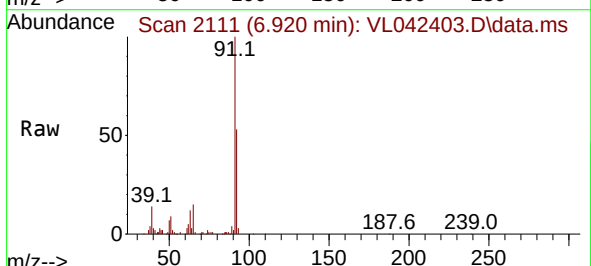
Acq: 21 Apr 2025 14:13

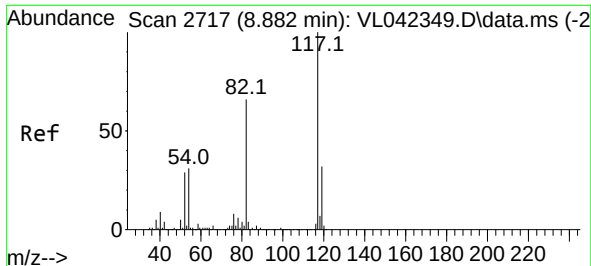
Tgt Ion: 91 Resp: 97818

Ion Ratio Lower Upper

91 100

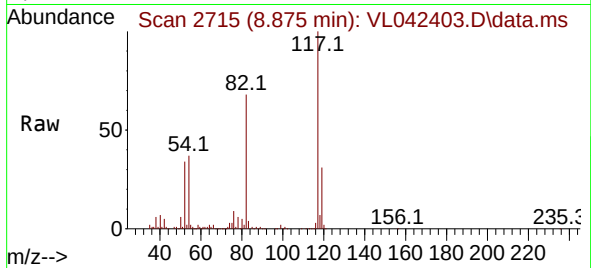
92 58.5 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

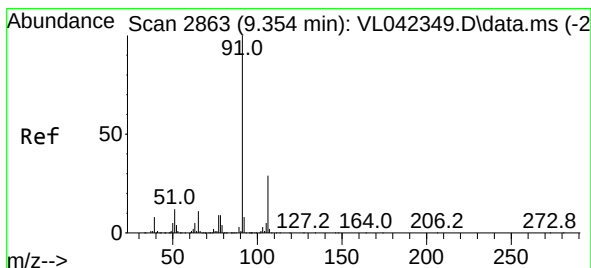
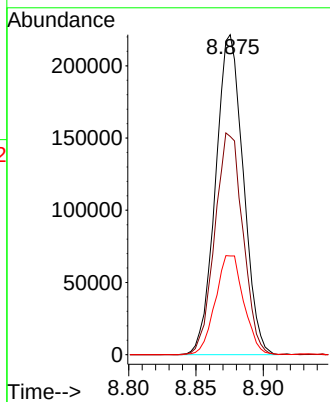
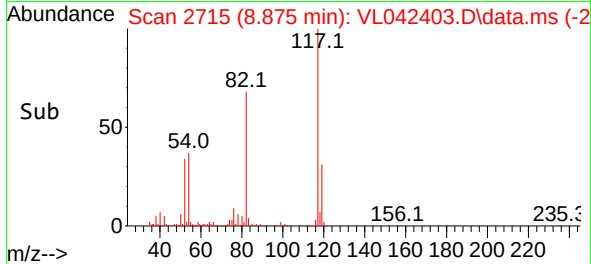
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 117 Resp: 31733
Ion Ratio Lower Upper
117 100
82 70.3 57.8 86.6
119 31.8 25.2 37.8

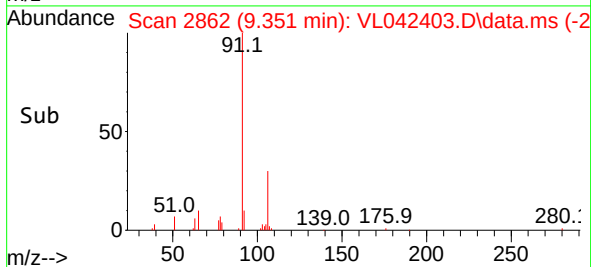
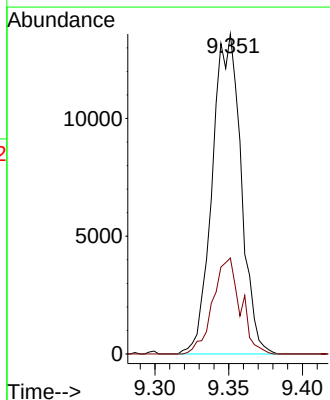
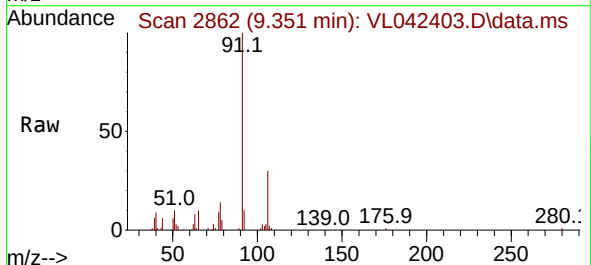
Manual Integrations
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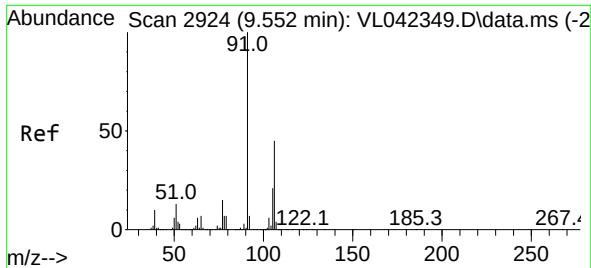
Reviewed By :Semsettin
Yesilyurt
04/22/2025
Supervised By :Mahesh
Dadoda
04/22/2025



#58
Ethyl Benzene
Concen: 0.294 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

Tgt Ion: 91 Resp: 18455
Ion Ratio Lower Upper
91 100
106 30.0 23.0 34.4





#59

m/p-Xylene

Concen: 0.820 ppbv m

RT: 9.529 min Scan# 2917

Delta R.T. -0.022 min

Lab File: VL042403.D

Acq: 21 Apr 2025 14:13

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 91 Resp: 4151

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin

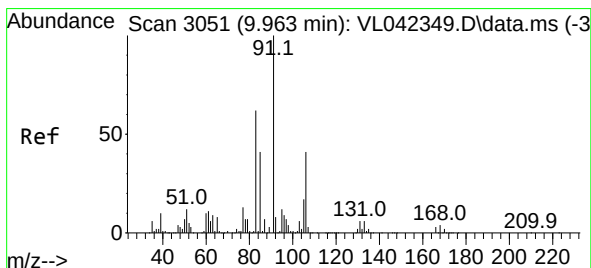
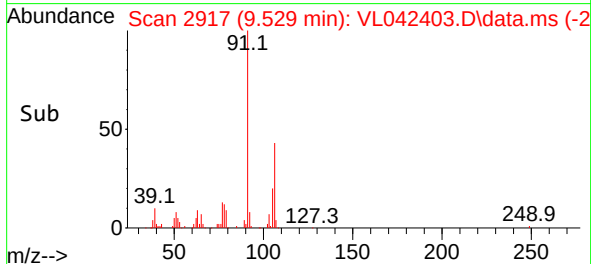
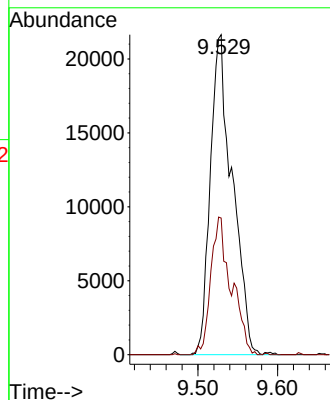
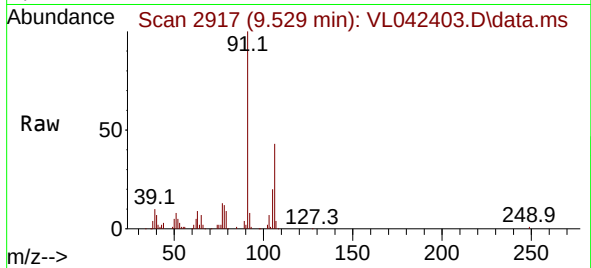
Yesilyurt

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#60

o-Xylene

Concen: 0.318 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.006 min

Lab File: VL042403.D

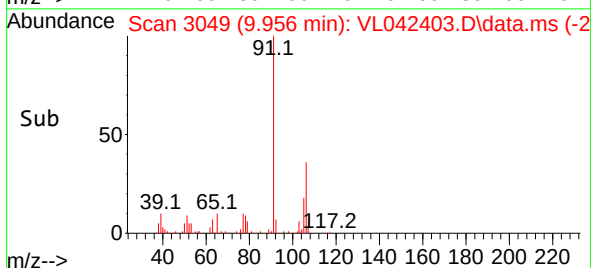
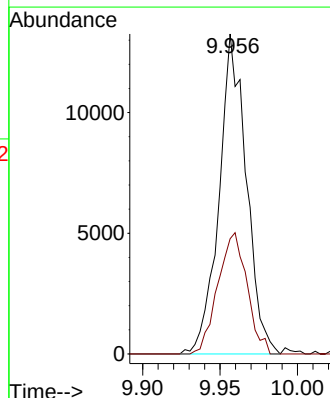
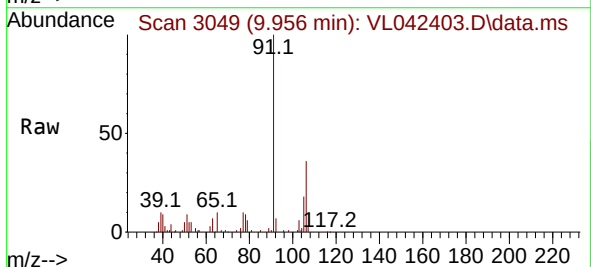
Acq: 21 Apr 2025 14:13

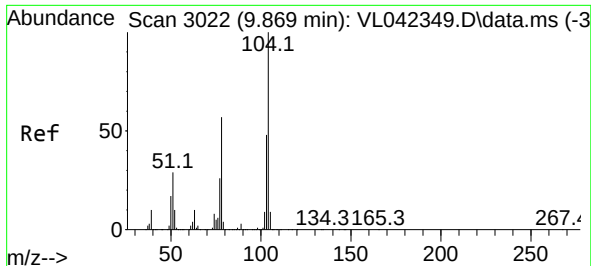
Tgt Ion: 91 Resp: 16241

Ion Ratio Lower Upper

91 100

106 40.5 21.1 63.4





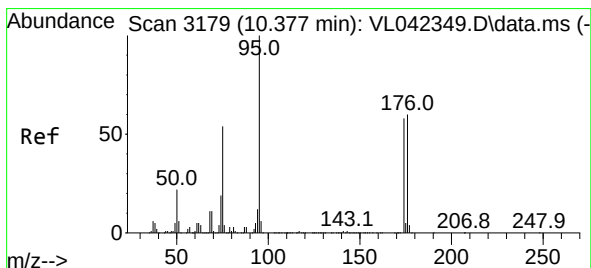
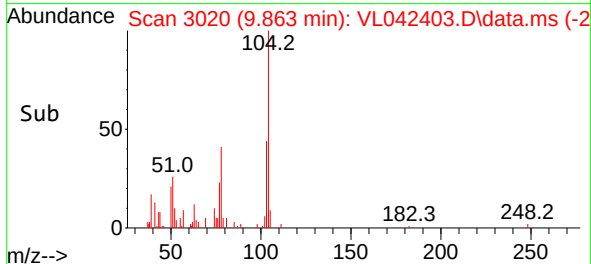
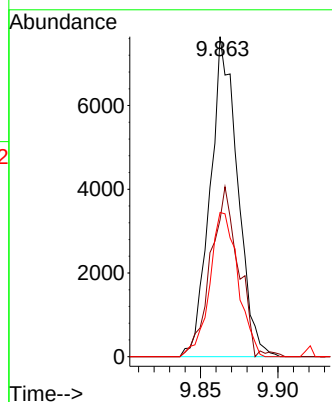
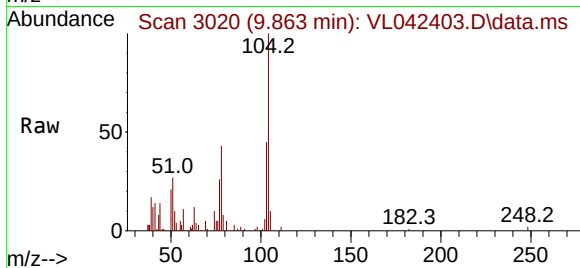
#61
Styrene
Concen: 0.388 ppbv
RT: 9.863 min Scan# 3022
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:104 Resp: 9449
Ion Ratio Lower Upper
104 100
78 53.9 44.6 66.8
103 46.4 37.4 56.0

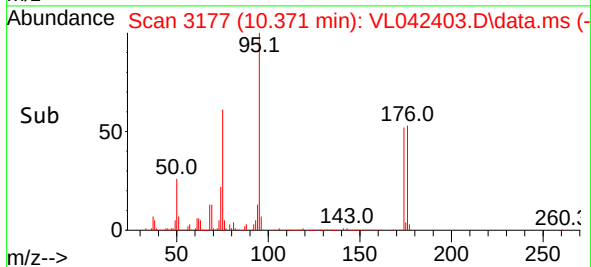
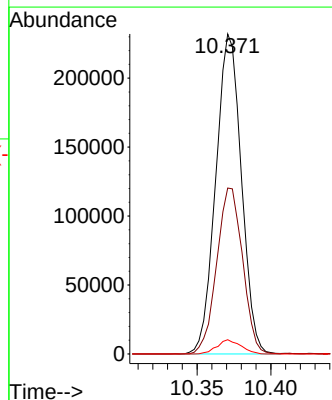
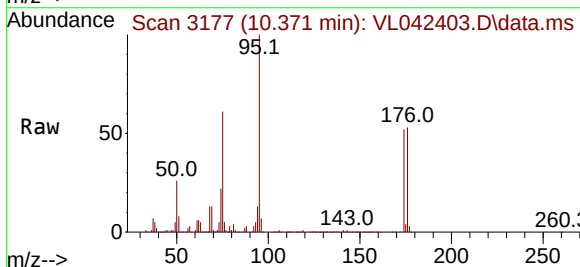
Manual Integrations
APPROVED

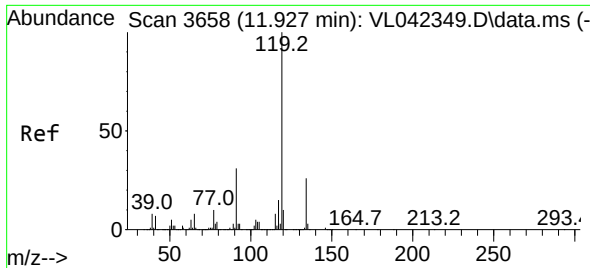
Reviewed By :Semsettin
Yesilyurt
04/22/2025
Supervised By :Mahesh
Dadoda
04/22/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.738 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

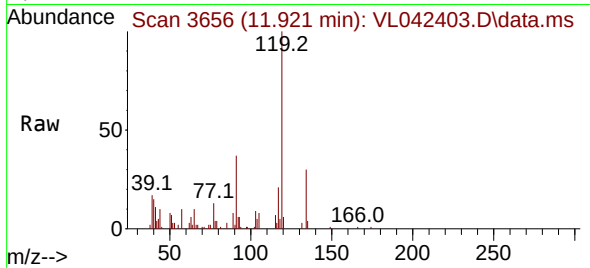
Tgt Ion: 95 Resp: 280008
Ion Ratio Lower Upper
95 100
174 52.5 48.5 72.7
175 4.1 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.098 ppbv
RT: 11.921 min Scan# 30
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

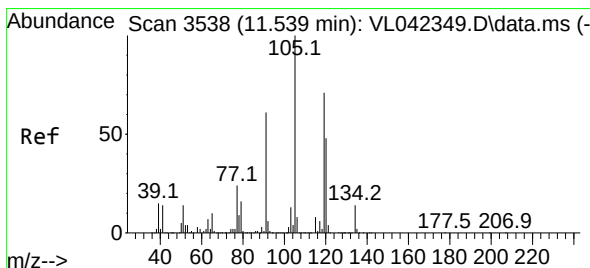
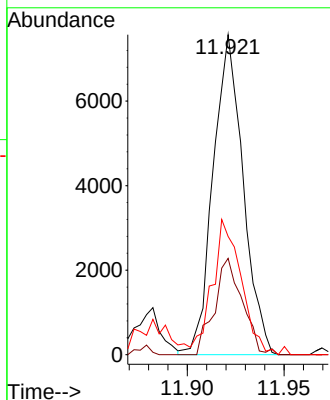
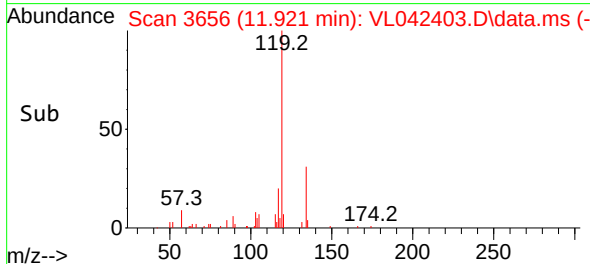


Tgt Ion:119 Resp: 814
Ion Ratio Lower Upper
119 100
134 28.2 20.0 30.0
91 42.1 24.4 36.6

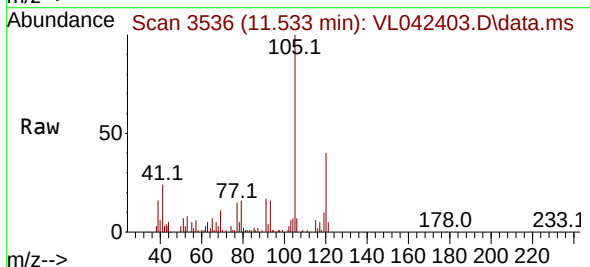
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt
04/22/2025

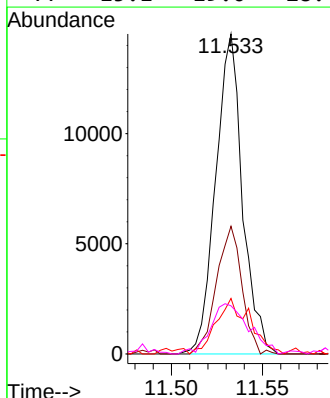
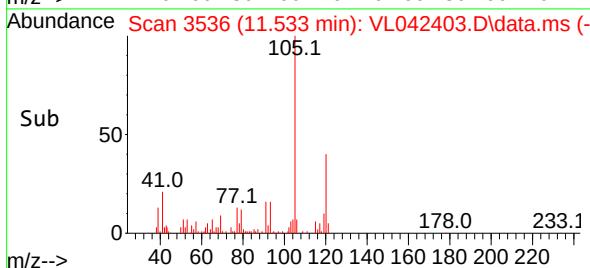
Supervised By :Mahesh
Dadoda
04/22/2025

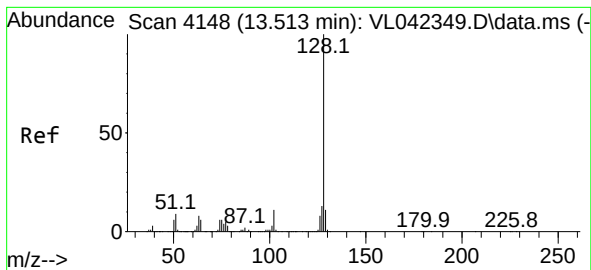


#74
1,2,4-Trimethylbenzene
Concen: 0.230 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13



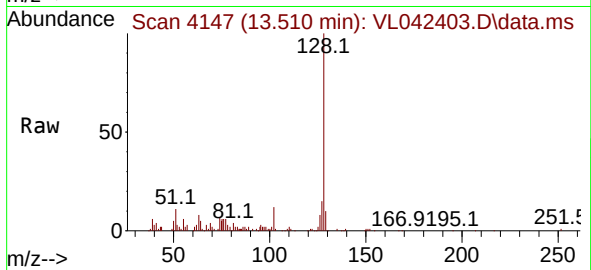
Tgt Ion:105 Resp: 14817
Ion Ratio Lower Upper
105 100
120 39.9 38.1 57.1
91 16.1 48.8 73.2#
77 15.1 19.0 28.4#





#79
Naphthalene
Concen: 0.514 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042403.D
Acq: 21 Apr 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:128 Resp: 39534
Ion Ratio Lower Upper
128 100
127 15.2 10.6 15.8
129 10.4 8.6 12.8

Manual Integrations
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Reviewed By :Semsettin
Yesilyurt
04/22/2025

Supervised By :Mahesh
Dadoda
04/22/2025

