

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043084.D
 Acq On : 09 Oct 2025 12:44
 Operator : SY/MD
 Sample : Q3320-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 22:14:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	196118	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	517619	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	434677	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	333701	10.657	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	13990	0.423	ppbv	99
3) Chlorodifluoromethane	1.473	51	11184m	0.350	ppbv	
4) Chloromethane	1.528	50	7782	0.645	ppbv	91
9) Propene	1.486	41	12815m	0.994	ppbv	
11) Trichlorofluoromethane	1.871	101	7220	0.213	ppbv	93
13) Ethanol	1.716	45	286862	612.721	ppbv	89
15) Acetone	1.829	43	183751	6.692	ppbv	99
17) tert-Butyl alcohol	2.036	59	4169	0.144	ppbv #	86
19) Isopropyl Alcohol	1.881	45	26728	2.032	ppbv #	1
20) Methylene Chloride	2.059	84	10585	0.883	ppbv	94
26) Hexane	2.819	57	12990	0.490	ppbv #	38
29) Chloroform	2.839	83	8933	0.198	ppbv	93
34) 2-Butanone	2.551	43	22379	0.637	ppbv	98
35) Carbon Tetrachloride	3.748	117	3943	0.093	ppbv #	93
36) Benzene	3.642	78	5040	0.102	ppbv #	81
38) Trichloroethene	4.525	130	1346m	0.065	ppbv	
50) 4-Methyl-2-Pentanone	5.742	43	9276m	0.217	ppbv	
51) 2-Hexanone	7.425	43	4294m	0.141	ppbv	
52) Tetrachloroethene	8.208	164	911m	0.050	ppbv	
53) Toluene	6.907	91	6835	0.137	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	1938m	0.048	ppbv	

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

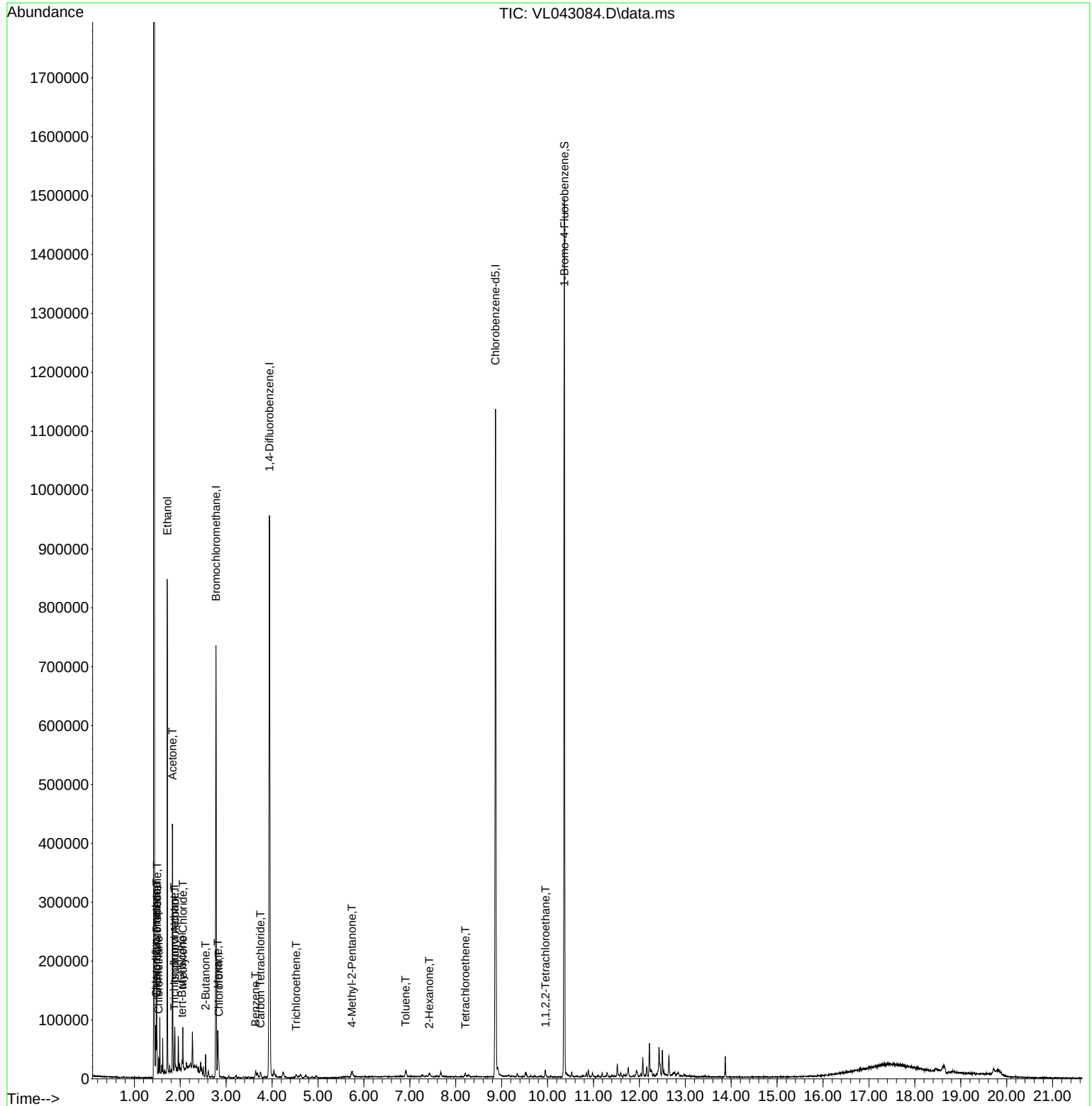
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043084.D
Acq On : 09 Oct 2025 12:44
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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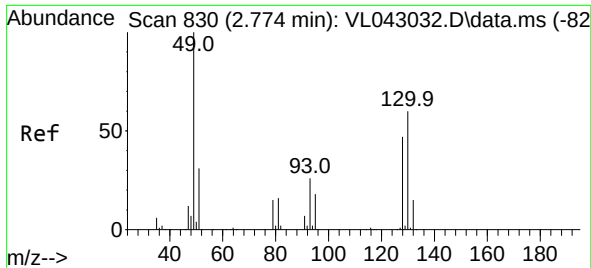
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Oct 09 22:14:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

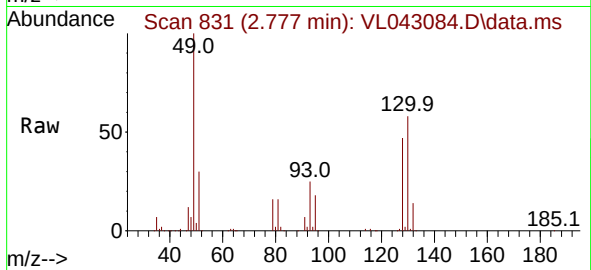
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 831
Delta R.T. 0.003 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

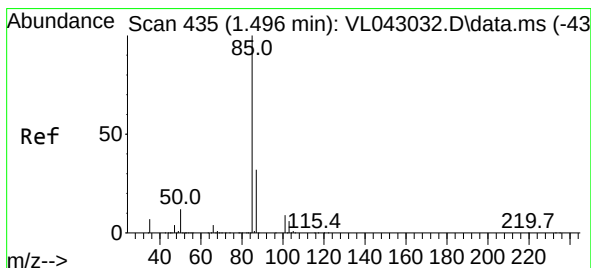
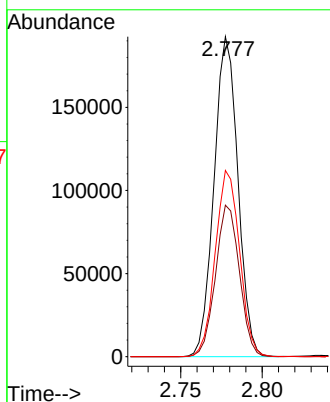
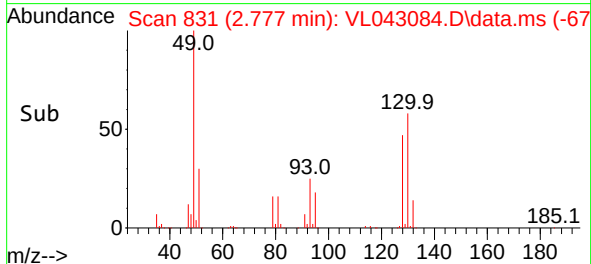
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



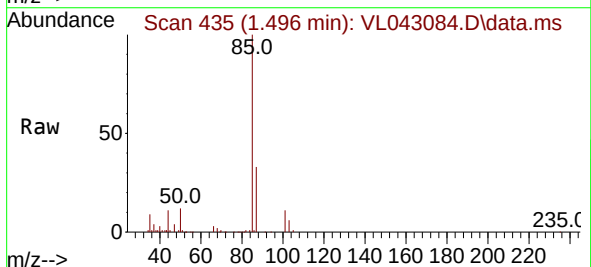
Tgt Ion: 49 Resp: 196118
Ion Ratio Lower Upper
49 100
128 47.5 24.1 72.2
130 59.3 31.4 94.3

Manual Integrations
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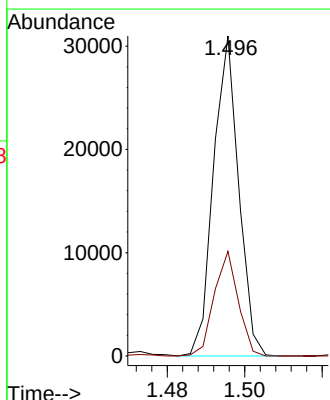
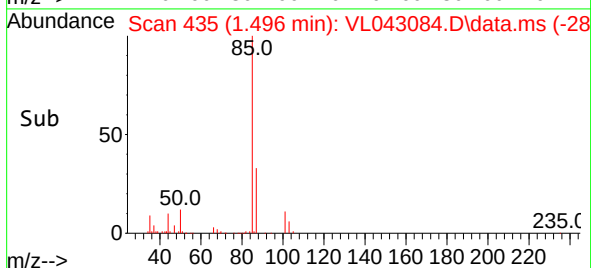
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

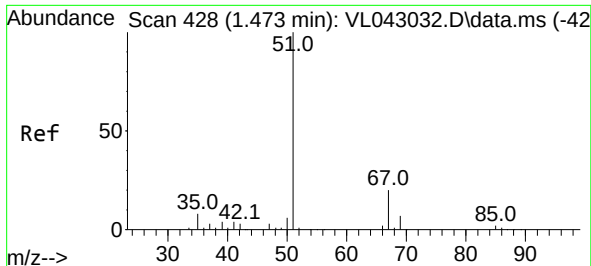


#2
Dichlorodifluoromethane
Concen: 0.423 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44



Tgt Ion: 85 Resp: 13990
Ion Ratio Lower Upper
85 100
87 32.7 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.350 ppbv m

RT: 1.473 min Scan# 428

Delta R.T. 0.000 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 51 Resp: 11184

Ion Ratio Lower Upper

51 100

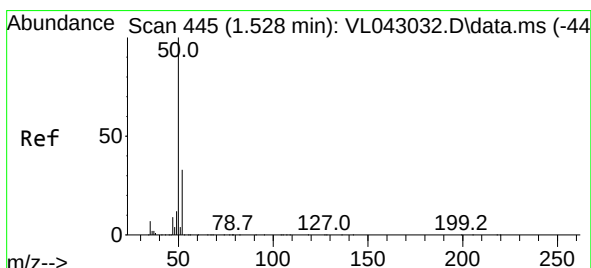
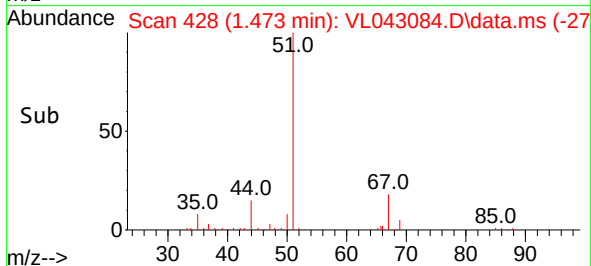
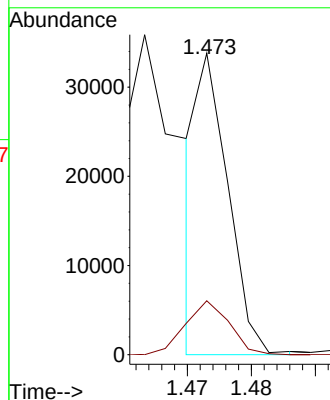
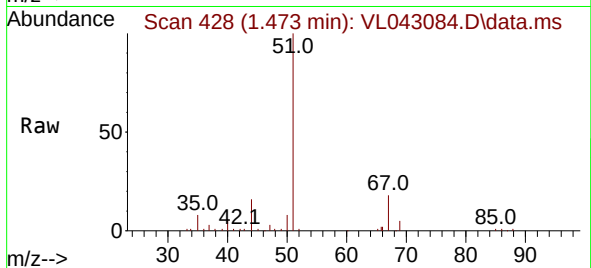
67 26.0 15.1 22.7

Manual Integrations

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Supervised By :Mahesh Dadoda 10/10/2025



#4

Chloromethane

Concen: 0.645 ppbv

RT: 1.528 min Scan# 445

Delta R.T. 0.000 min

Lab File: VL043084.D

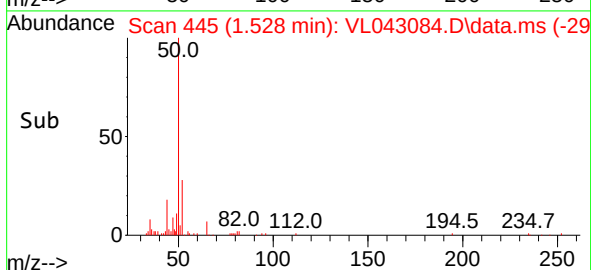
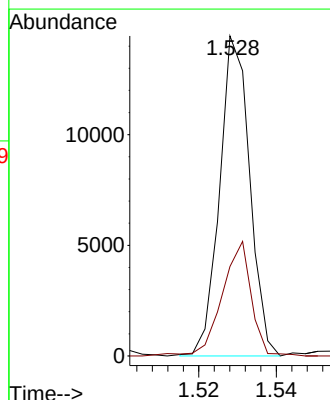
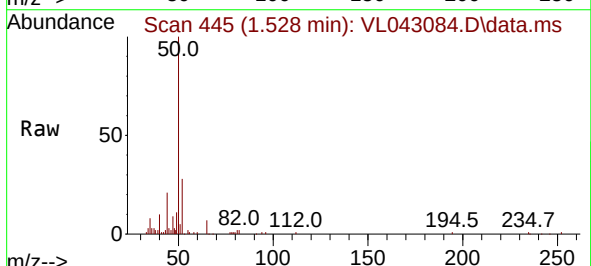
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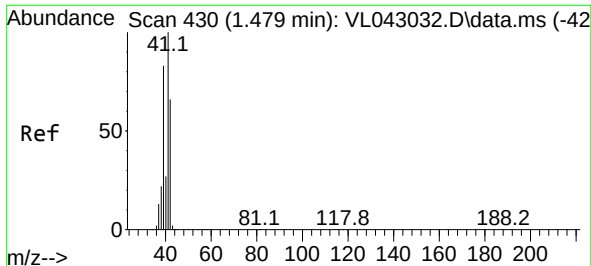
Tgt Ion: 50 Resp: 7782

Ion Ratio Lower Upper

50 100

52 27.4 26.2 39.2





#9

Propene

Concen: 0.994 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 1281

Ion Ratio Lower Upper

41 100

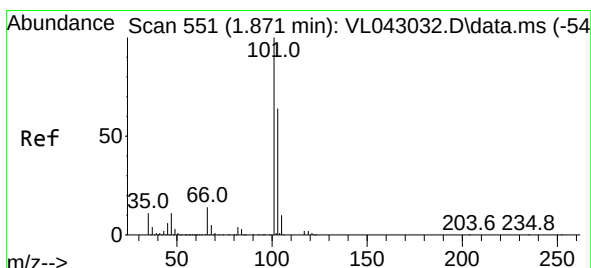
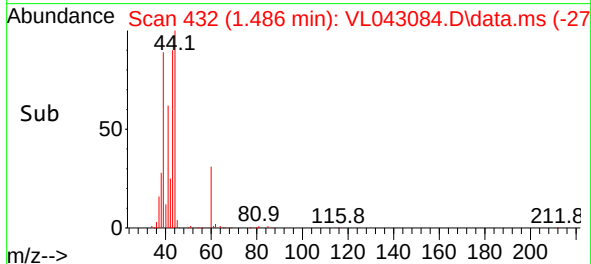
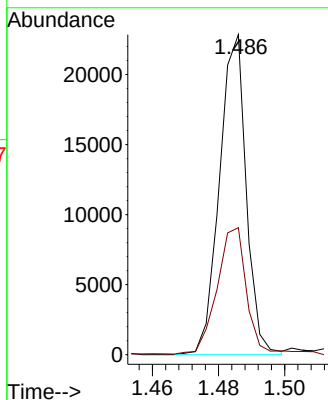
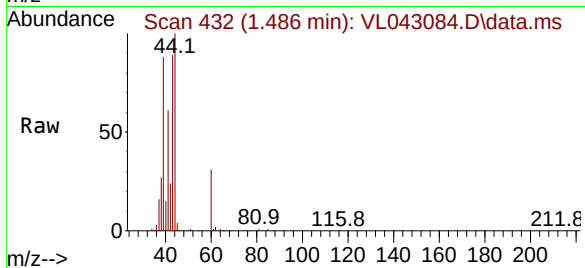
42 25.1 53.3 79.9

Manual Integrations

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Supervised By :Mahesh Dadoda 10/10/2025



#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 1.871 min Scan# 551

Delta R.T. 0.000 min

Lab File: VL043084.D

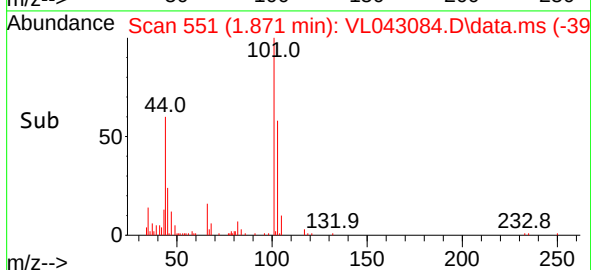
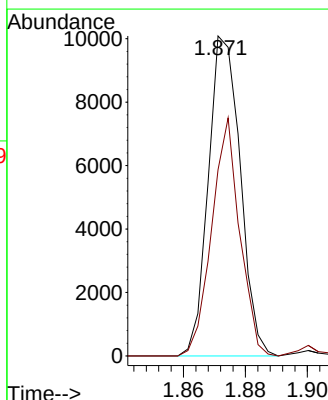
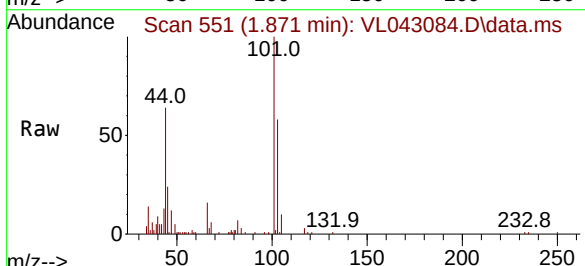
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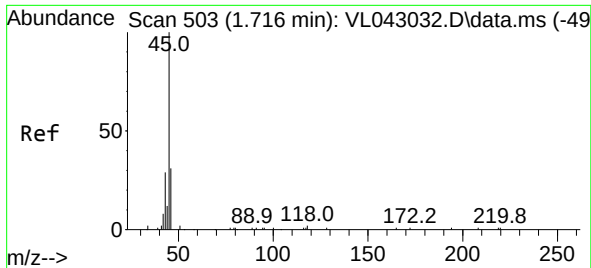
Tgt Ion:101 Resp: 7220

Ion Ratio Lower Upper

101 100

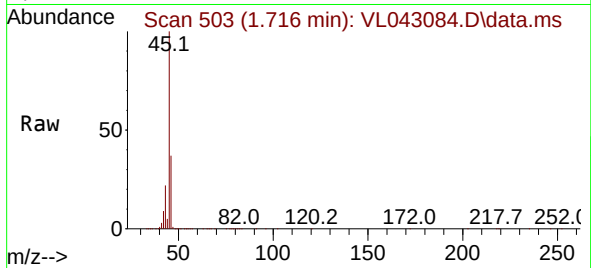
103 58.2 51.1 76.7





#13
Ethanol
Concen: 612.721 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

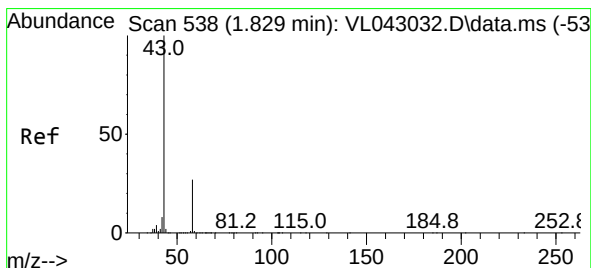
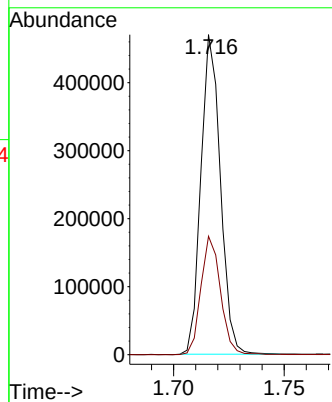
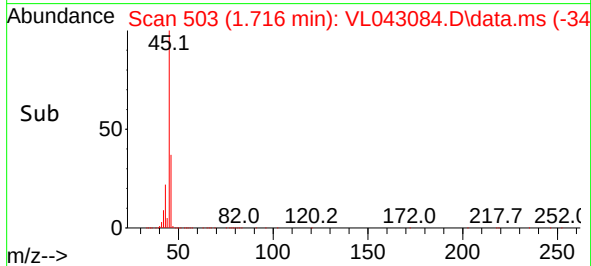
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



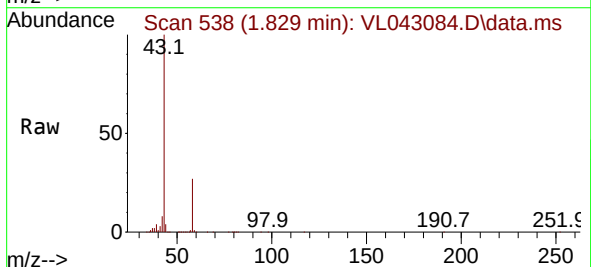
Tgt Ion: 45 Resp: 286862
Ion Ratio Lower Upper
45 100
46 37.6 17.8 71.4

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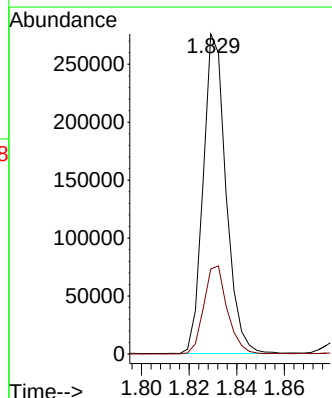
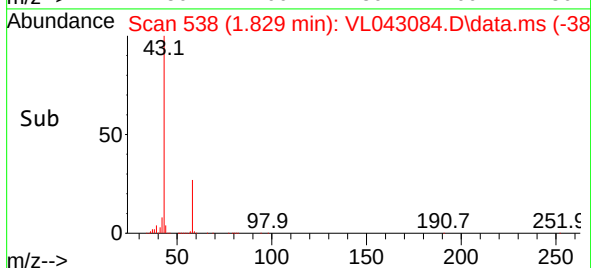
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

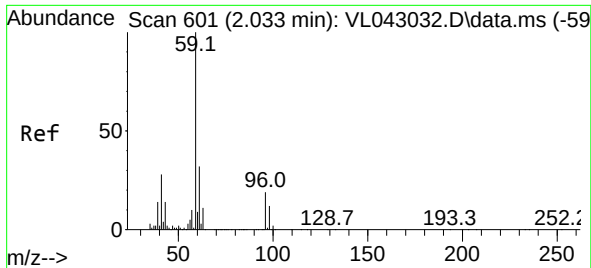


#15
Acetone
Concen: 6.692 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44



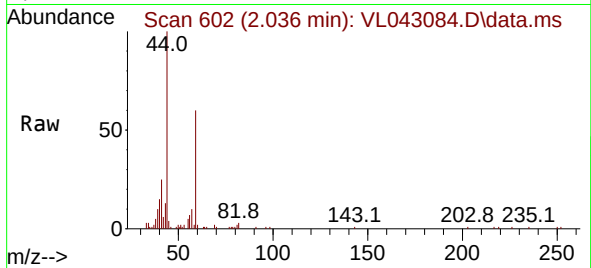
Tgt Ion: 43 Resp: 183751
Ion Ratio Lower Upper
43 100
58 28.6 22.2 33.4





#17
tert-Butyl alcohol
Concen: 0.144 ppbv
RT: 2.036 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

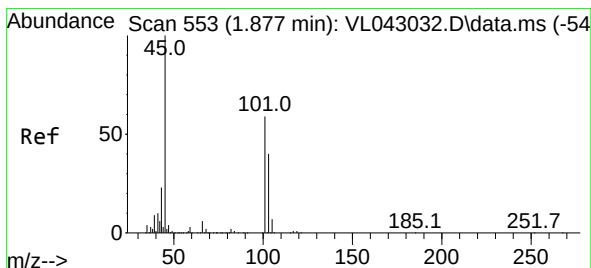
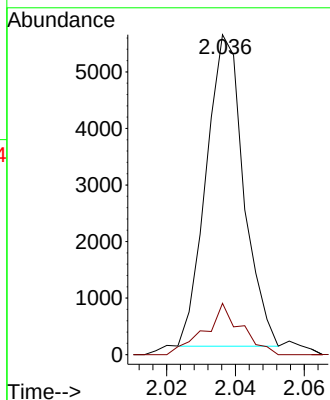
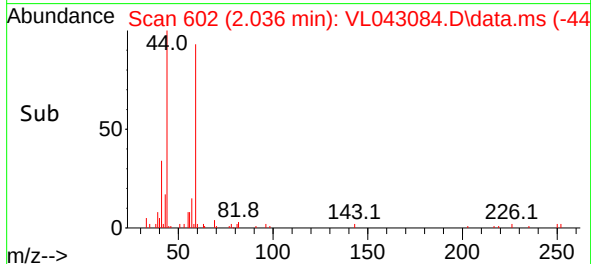
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 59 Resp: 4169
Ion Ratio Lower Upper
59 100
57 16.0 8.5 12.7

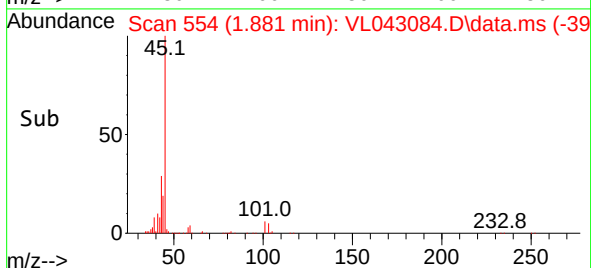
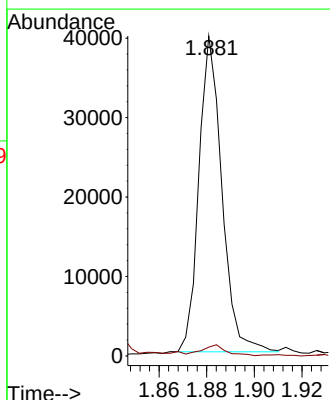
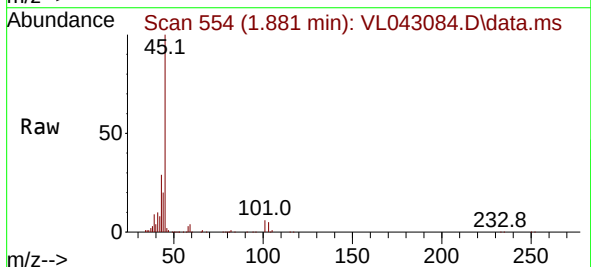
Manual Integrations
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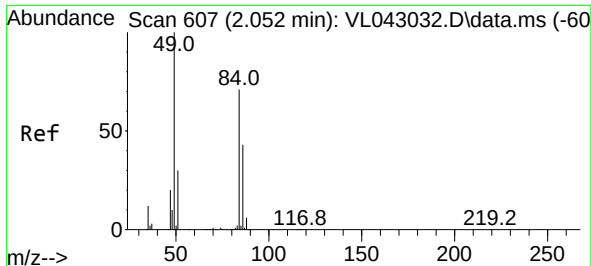
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#19
Isopropyl Alcohol
Concen: 2.032 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

Tgt Ion: 45 Resp: 26728
Ion Ratio Lower Upper
45 100
58 196.4 42.3 63.5





#20

Methylene Chloride

Concen: 0.883 ppbv

RT: 2.059 min Scan# 607

Delta R.T. 0.007 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

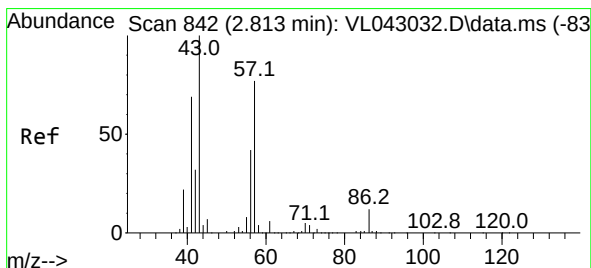
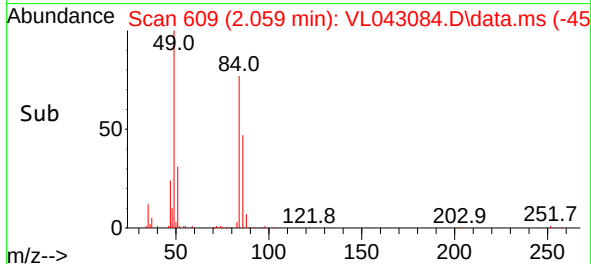
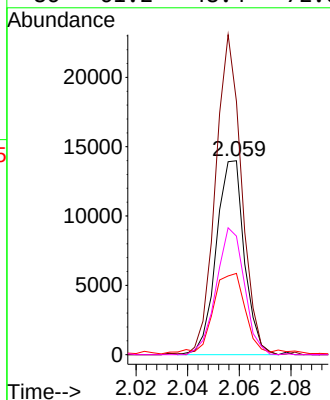
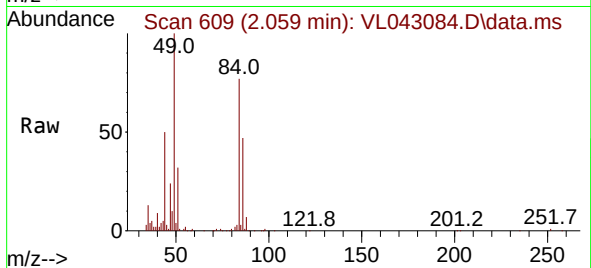
Tgt Ion: 84 Resp: 1058

Ion	Ratio	Lower	Upper
84	100		
49	130.6	112.5	168.7
51	40.5	34.2	51.2
86	61.2	48.4	72.6

Manual Integrations

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#26

Hexane

Concen: 0.490 ppbv

RT: 2.819 min Scan# 844

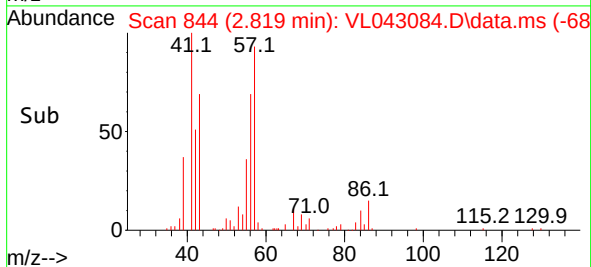
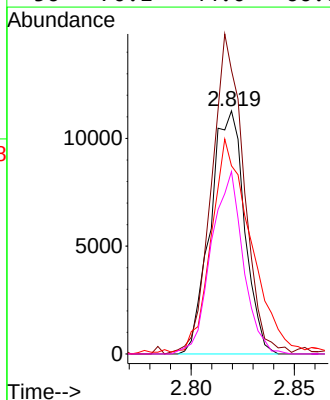
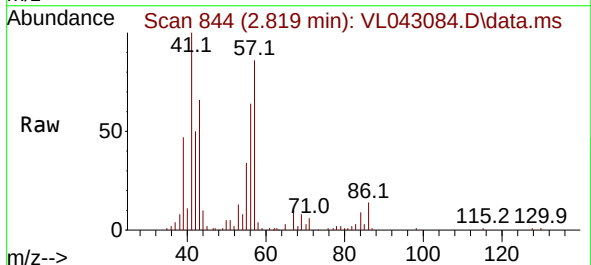
Delta R.T. 0.007 min

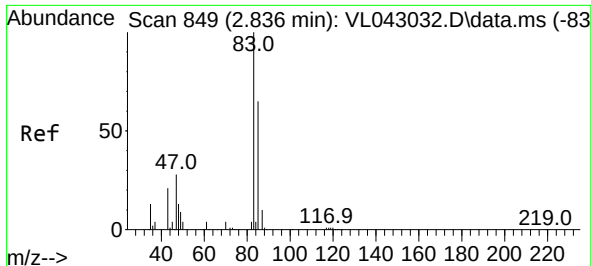
Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Tgt Ion: 57 Resp: 12990

Ion	Ratio	Lower	Upper
57	100		
41	126.0	76.1	114.1#
43	106.6	201.4	302.0#
56	70.1	44.0	66.0#





#29

Chloroform

Concen: 0.198 ppbv

RT: 2.839 min Scan# 849

Delta R.T. 0.003 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 83 Resp: 893

Ion Ratio Lower Upper

83 100

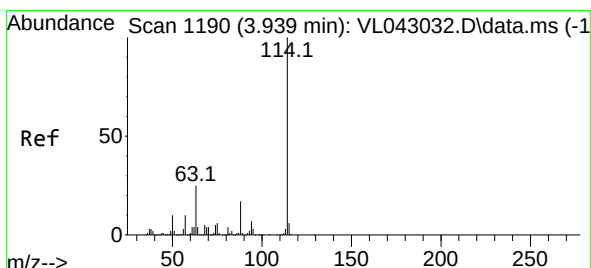
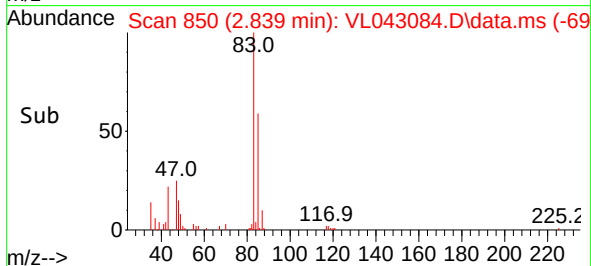
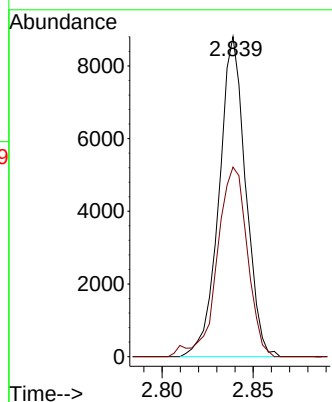
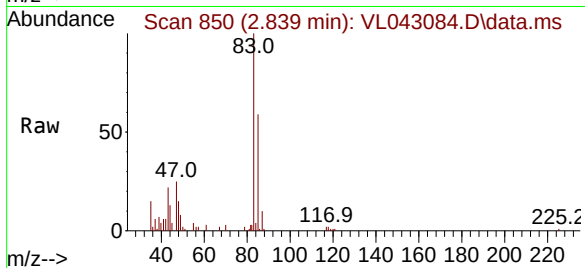
85 59.2 52.0 78.0

Manual Integrations

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Supervised By :Mahesh Dadoda 10/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.943 min Scan# 1191

Delta R.T. 0.003 min

Lab File: VL043084.D

Acq: 09 Oct 2025 12:44

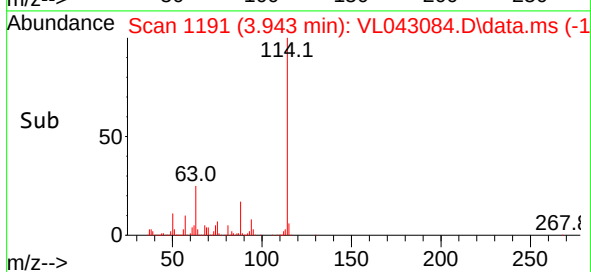
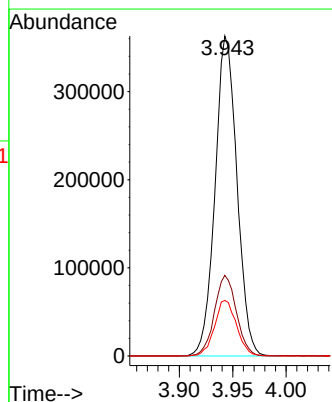
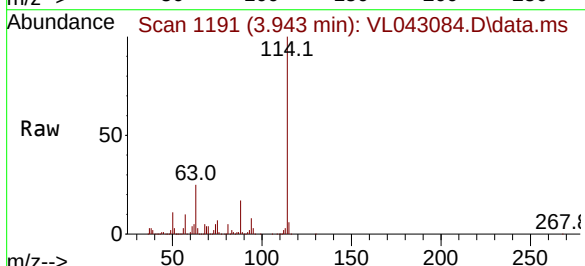
Tgt Ion:114 Resp: 517619

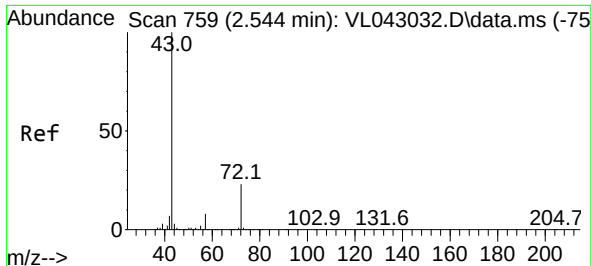
Ion Ratio Lower Upper

114 100

63 25.3 19.4 29.2

88 17.5 13.9 20.9





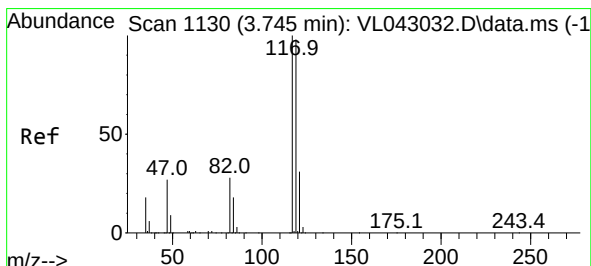
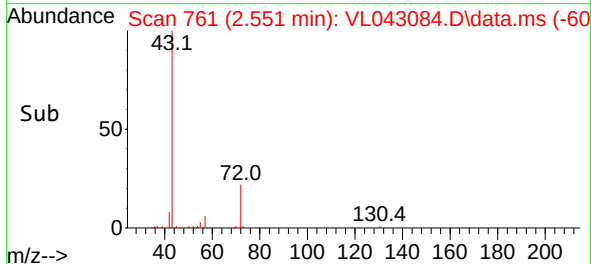
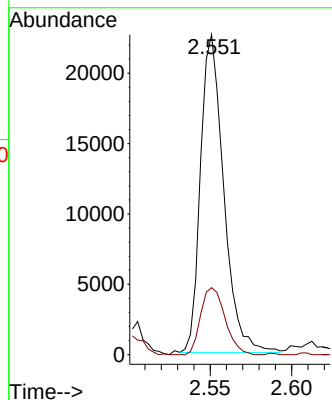
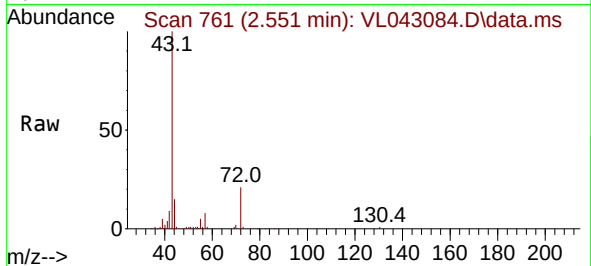
#34
2-Butanone
Concen: 0.637 ppbv
RT: 2.551 min Scan# 70
Delta R.T. 0.007 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 22379
Ion Ratio Lower Upper
43 100
72 22.2 18.4 27.6

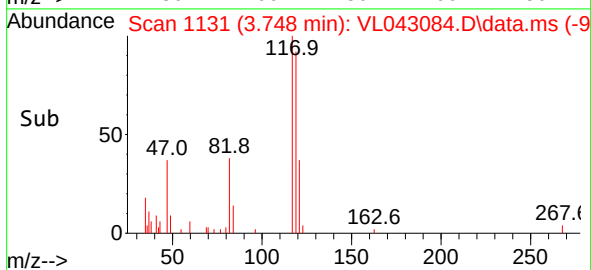
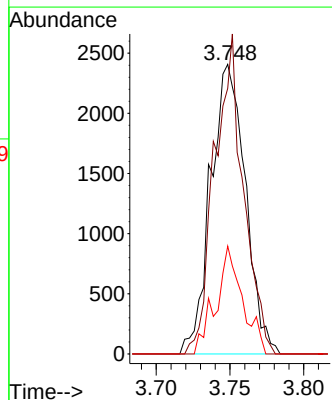
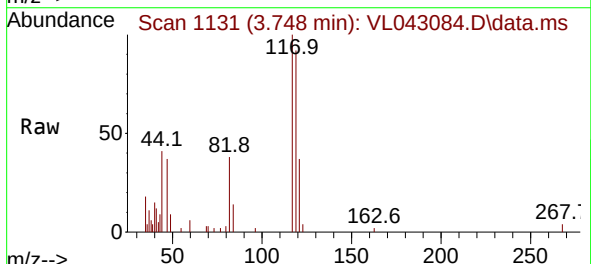
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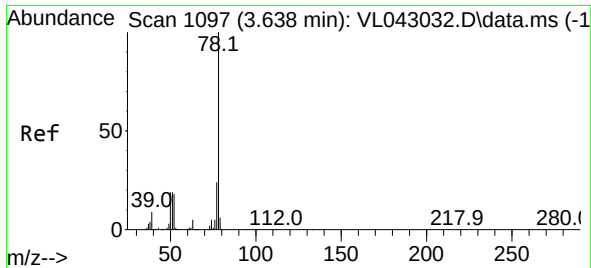
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#35
Carbon Tetrachloride
Concen: 0.093 ppbv
RT: 3.748 min Scan# 1131
Delta R.T. 0.003 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

Tgt Ion:117 Resp: 3943
Ion Ratio Lower Upper
117 100
119 91.7 78.2 117.4
121 37.2 24.8 37.2#





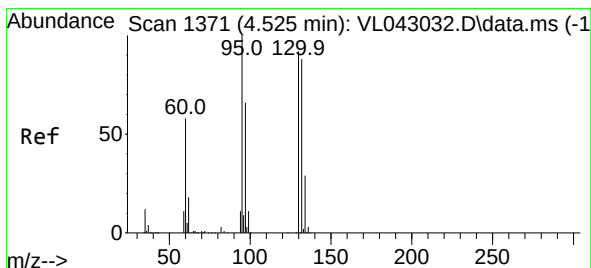
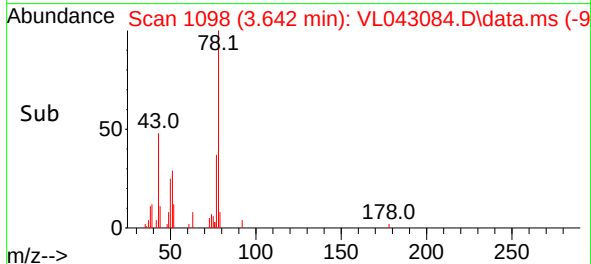
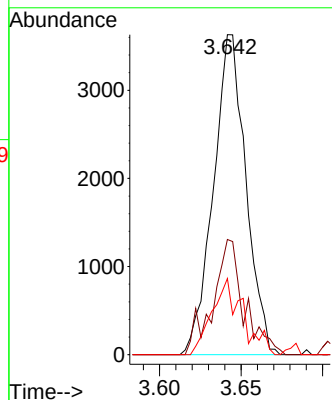
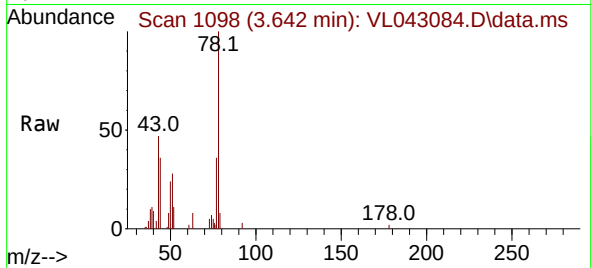
#36
Benzene
Concen: 0.102 ppbv
RT: 3.642 min Scan# 1098
Delta R.T. 0.003 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 78 Resp: 5040
Ion Ratio Lower Upper
78 100
77 36.0 19.2 28.8
50 23.8 14.9 22.3

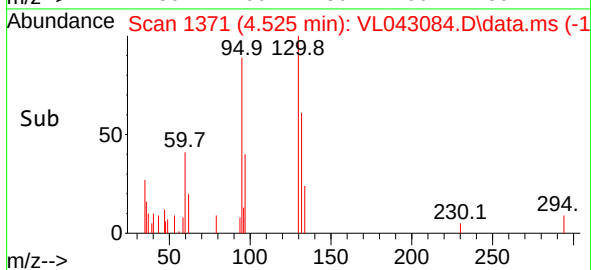
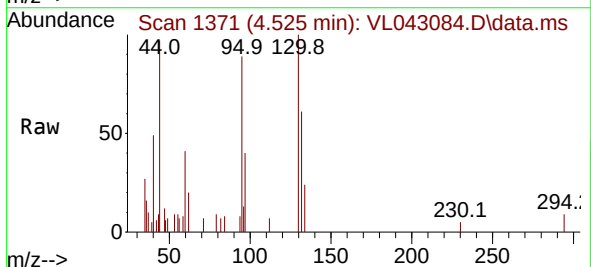
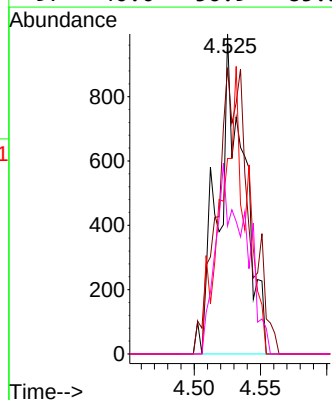
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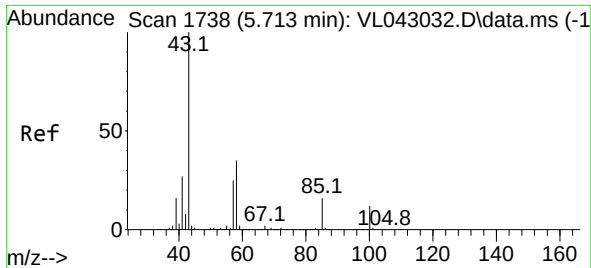
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#38
Trichloroethene
Concen: 0.065 ppbv m
RT: 4.525 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

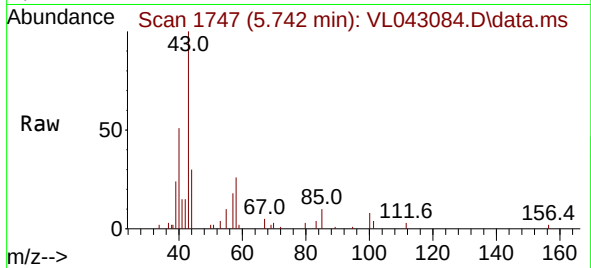
Tgt Ion:130 Resp: 1346
Ion Ratio Lower Upper
130 100
95 89.4 86.4 129.6
132 61.1 75.7 113.5
97 40.0 56.9 85.3





#50
4-Methyl-2-Pentanone
Concen: 0.217 ppbv m
RT: 5.742 min Scan# 1738
Delta R.T. 0.029 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

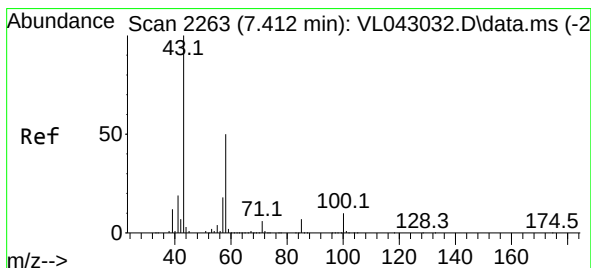
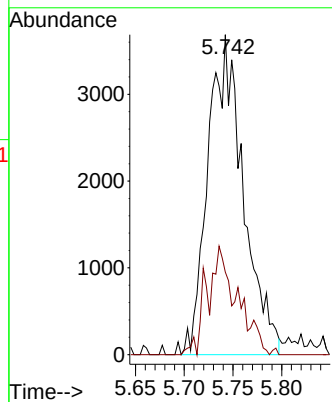
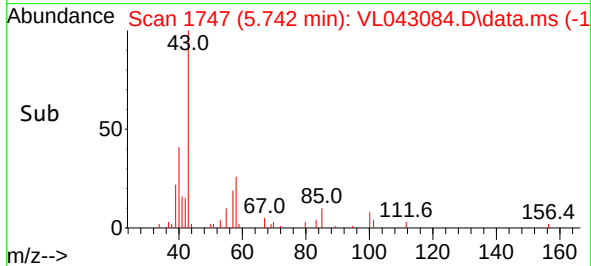
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 9270
Ion Ratio Lower Upper
43 100
58 0.0 28.7 43.1

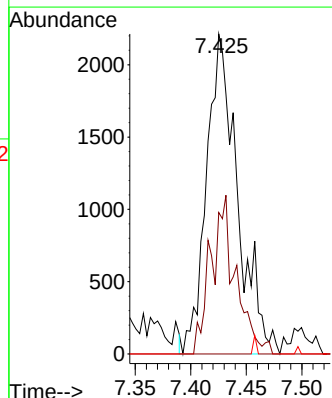
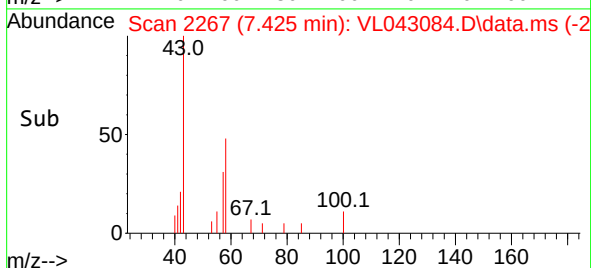
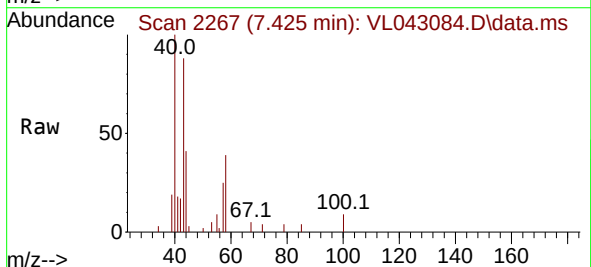
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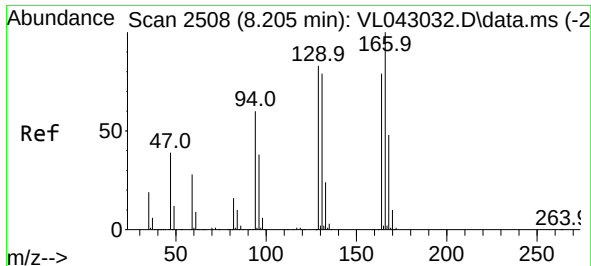
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#51
2-Hexanone
Concen: 0.141 ppbv m
RT: 7.425 min Scan# 2267
Delta R.T. 0.013 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

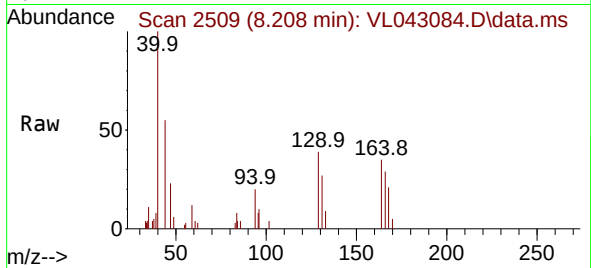
Tgt Ion: 43 Resp: 4294
Ion Ratio Lower Upper
43 100
58 39.9 39.1 58.7
98 0.0 0.5 0.7#





#52
Tetrachloroethene
Concen: 0.050 ppbv m
RT: 8.208 min Scan# 2107
Delta R.T. 0.003 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

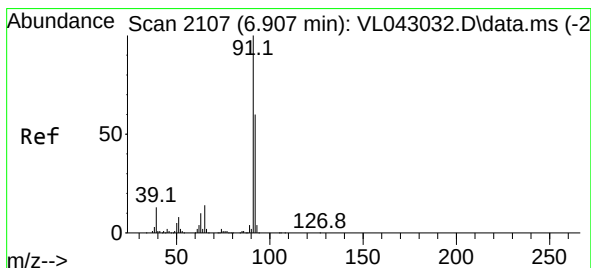
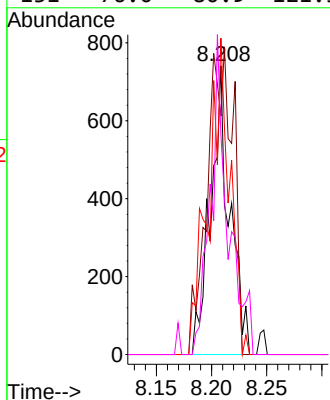
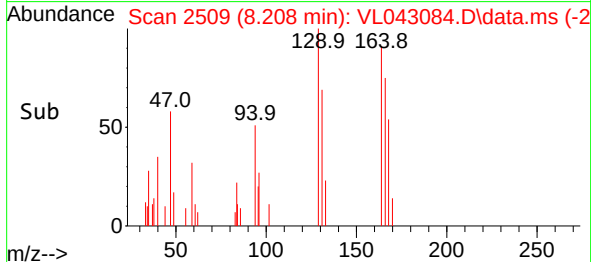
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:164 Resp: 91
Ion Ratio Lower Upper
164 100
166 82.6 101.8 152.8
129 109.6 84.5 126.7
131 76.0 80.9 121.3#

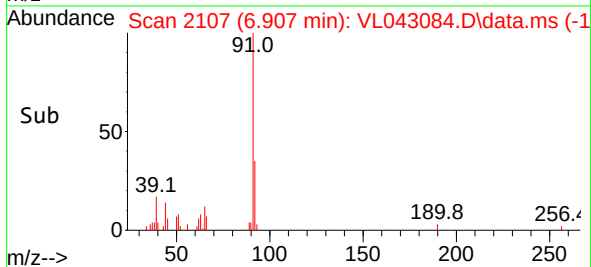
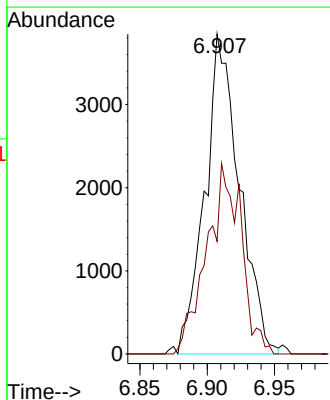
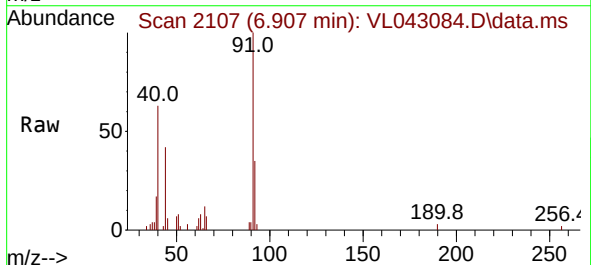
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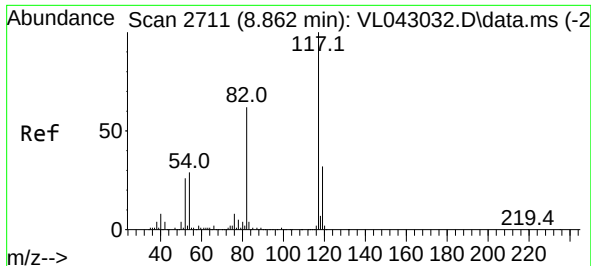
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#53
Toluene
Concen: 0.137 ppbv
RT: 6.907 min Scan# 2107
Delta R.T. 0.000 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

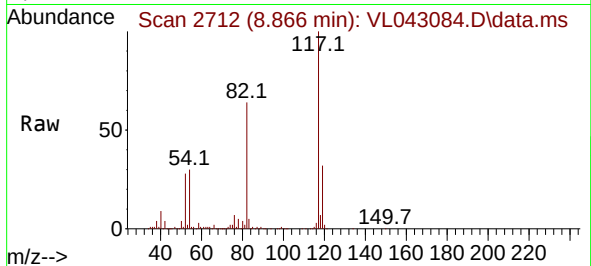
Tgt Ion: 91 Resp: 6835
Ion Ratio Lower Upper
91 100
92 59.5 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.866 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

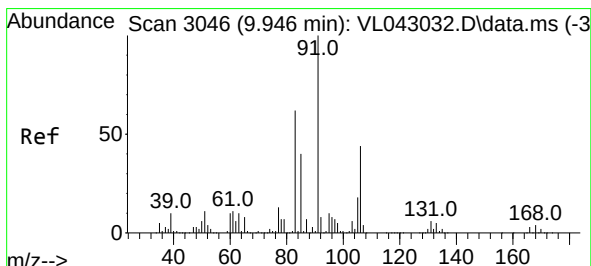
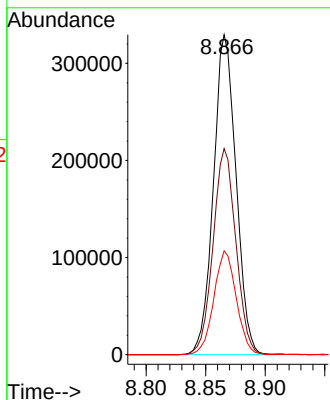
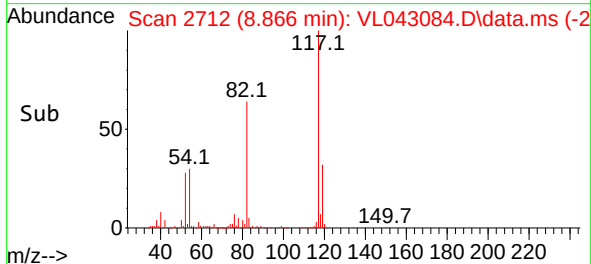
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 117 Resp: 43467
Ion Ratio Lower Upper
117 100
82 65.1 53.0 79.6
119 32.4 25.4 38.2

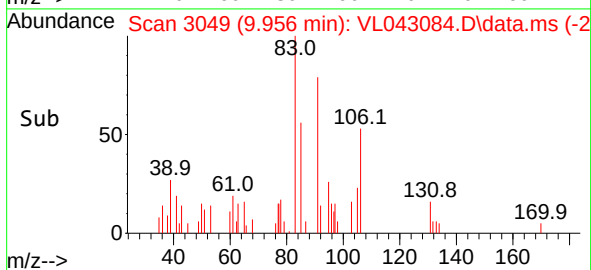
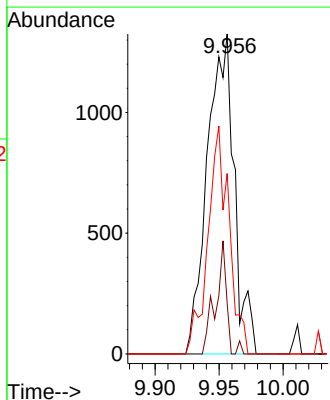
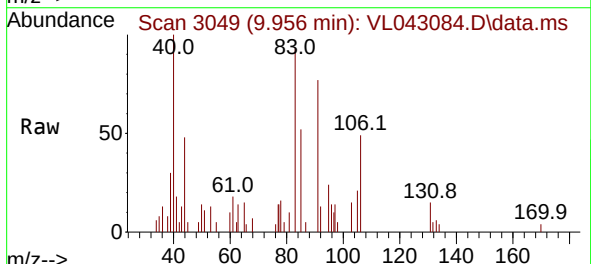
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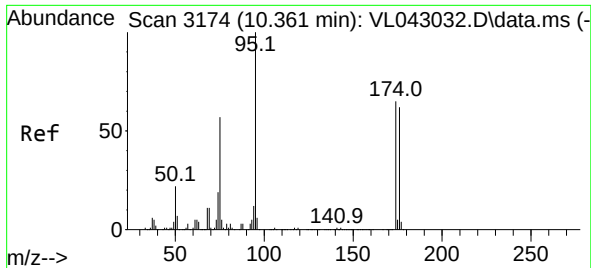
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.048 ppbv m
RT: 9.956 min Scan# 3049
Delta R.T. 0.010 min
Lab File: VL043084.D
Acq: 09 Oct 2025 12:44

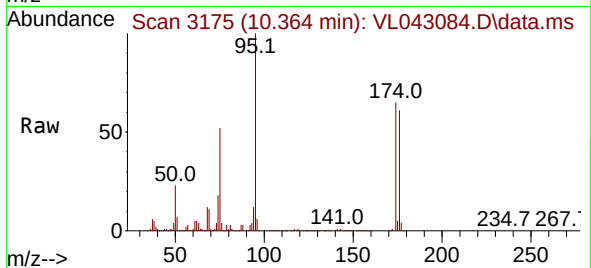
Tgt Ion: 83 Resp: 1938
Ion Ratio Lower Upper
83 100
131 14.4 4.7 14.1#
85 55.8 32.0 96.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.657 ppbv
 RT: 10.364 min Scan# 3174
 Delta R.T. 0.003 min
 Lab File: VL043084.D
 Acq: 09 Oct 2025 12:44

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion: 95 Resp: 33370
 Ion Ratio Lower Upper
 95 100
 174 64.8 52.3 78.5
 175 4.7 3.8 5.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

