

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
 Data File : VL043195.D
 Acq On : 13 Nov 2025 12:28
 Operator : SY/MD
 Sample : Q3627-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UNIT-7-IA-1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
 Supervised By :Mahesh Dadoda 11/18/2025

Quant Time: Nov 14 04:38:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	145038	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	398990	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	346200	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	281256	10.452	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	8884	0.431	ppbv	91
4) Chloromethane	1.538	50	3384	0.414	ppbv	93
9) Propene	1.490	41	7501	0.758	ppbv	96
10) Heptane	4.995	43	3640m	0.128	ppbv	
11) Trichlorofluoromethane	1.884	101	5543	0.275	ppbv	89
13) Ethanol	1.726	45	512270	139.967	ppbv	98
15) Acetone	1.842	43	120845	6.182	ppbv	99
19) Isopropyl Alcohol	1.891	45	1737162	142.677	ppbv #	37
20) Methylene Chloride	2.069	84	6233	0.807	ppbv	88
25) Ethyl Acetate	2.846	43	106715m	2.201	ppbv	
26) Hexane	2.836	57	35887	1.607	ppbv #	62
34) 2-Butanone	2.567	43	12586	0.469	ppbv	91
35) Carbon Tetrachloride	3.775	117	2176	0.076	ppbv	84
36) Benzene	3.671	78	6968	0.185	ppbv #	93
41) Tetrahydrofuran	3.069	42	2143m	0.143	ppbv	
50) 4-Methyl-2-Pentanone	5.778	43	44901	1.213	ppbv	99
52) Tetrachloroethene	8.241	164	825m	0.061	ppbv	
53) Toluene	6.950	91	48404	1.085	ppbv	99
58) Ethyl Benzene	9.364	91	17354	0.292	ppbv	99
59) m/p-Xylene	9.542	91	4937m	0.104	ppbv	
61) Styrene	9.879	104	12035	0.570	ppbv	94

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

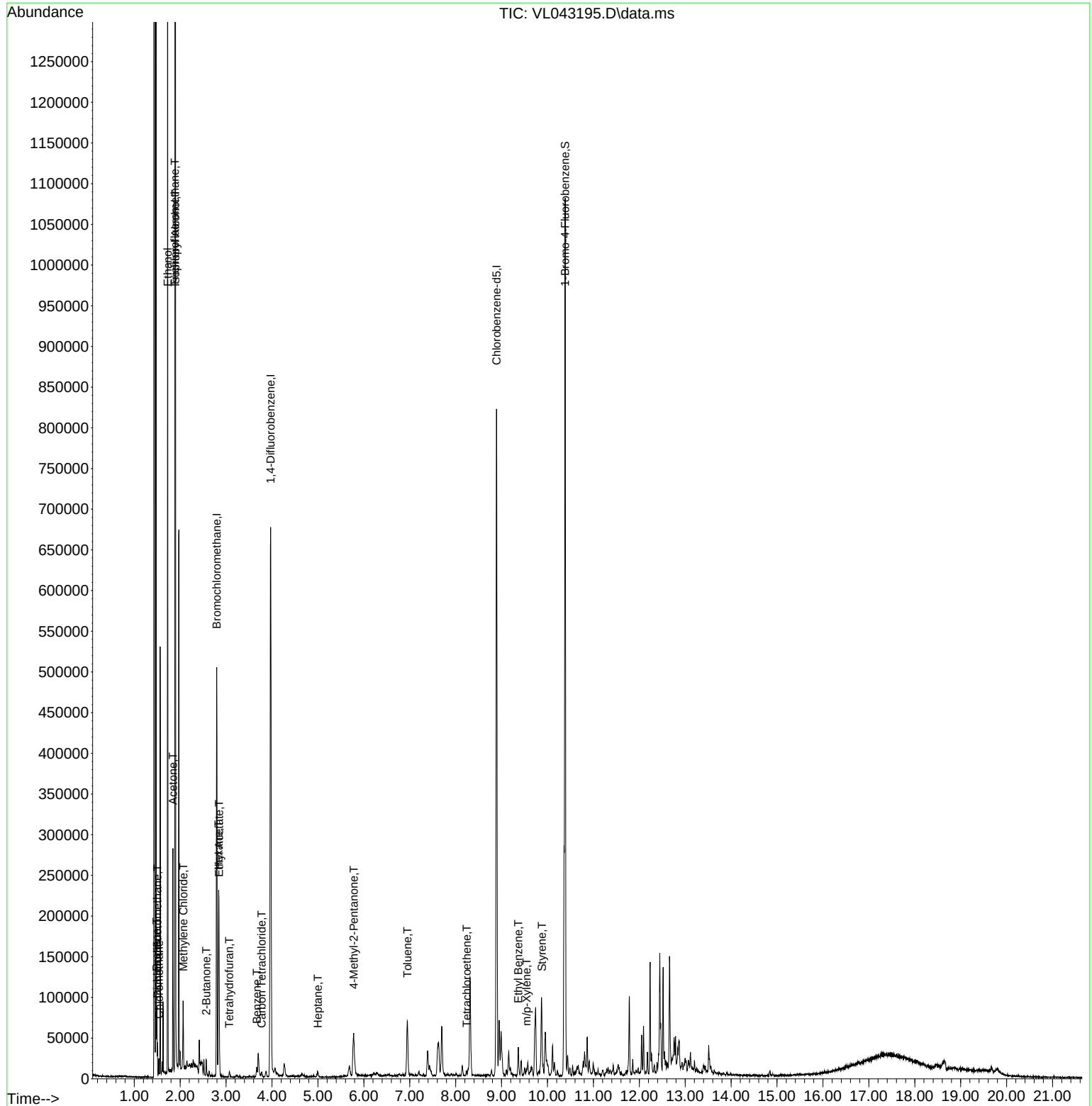
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
Data File : VL043195.D
Acq On : 13 Nov 2025 12:28
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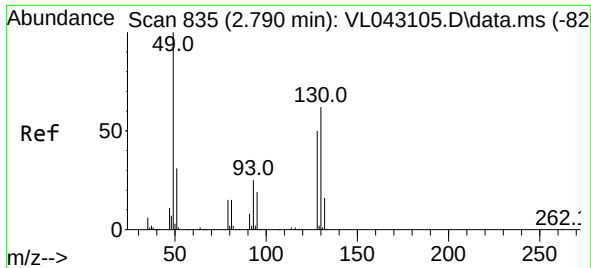
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Quant Time: Nov 14 04:38:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

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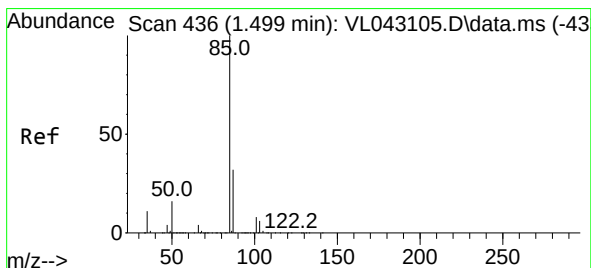
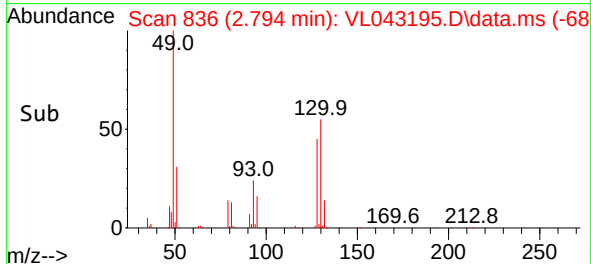
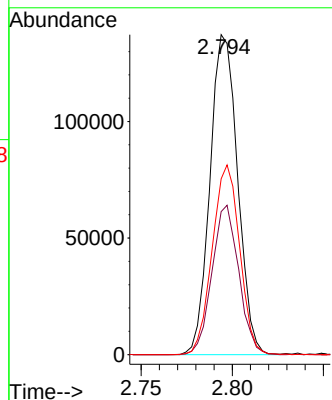
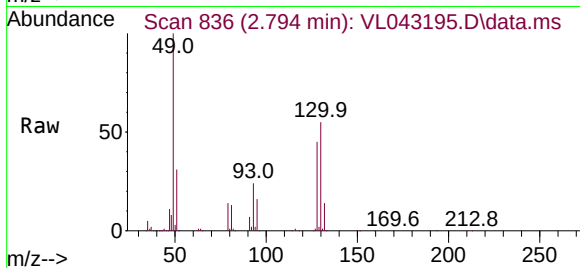
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 49 Resp: 145038
Ion Ratio Lower Upper
49 100
128 45.2 24.4 73.4
130 58.8 31.0 93.0

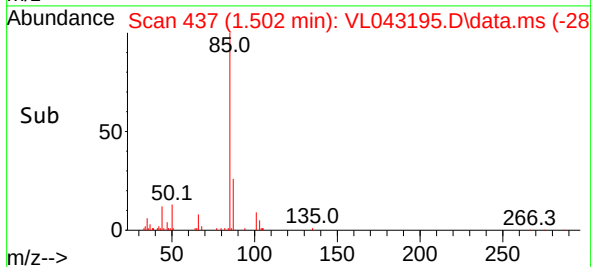
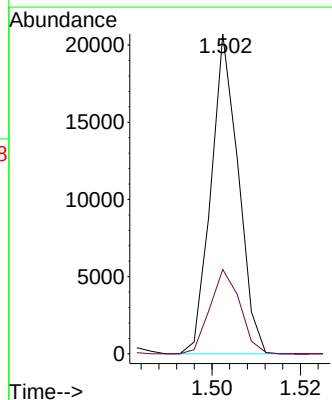
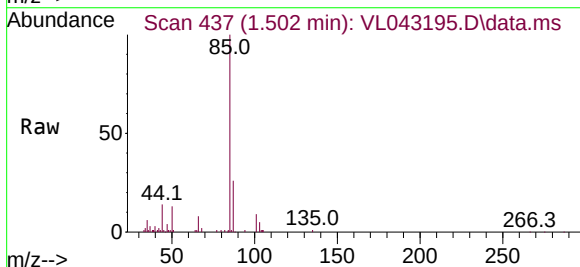
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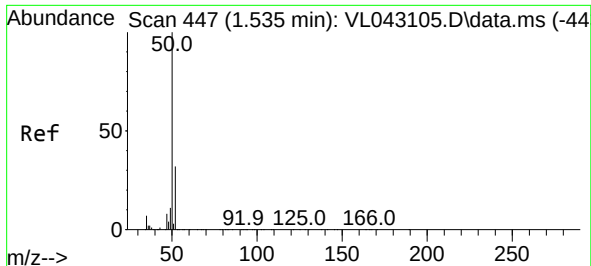
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#2
Dichlorodifluoromethane
Concen: 0.431 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 85 Resp: 8884
Ion Ratio Lower Upper
85 100
87 26.4 25.3 37.9





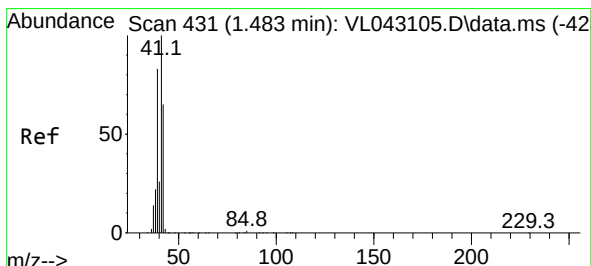
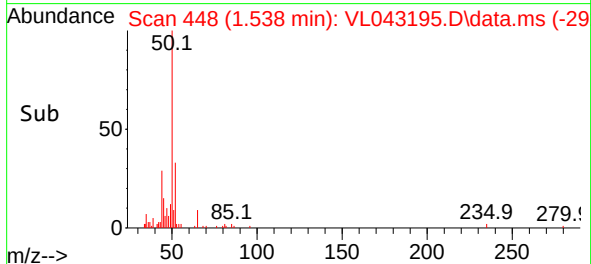
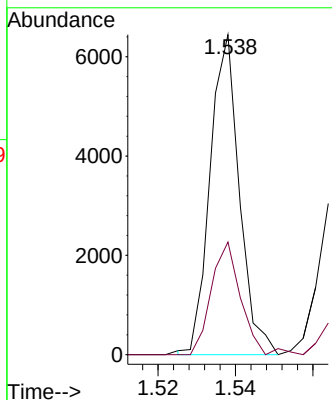
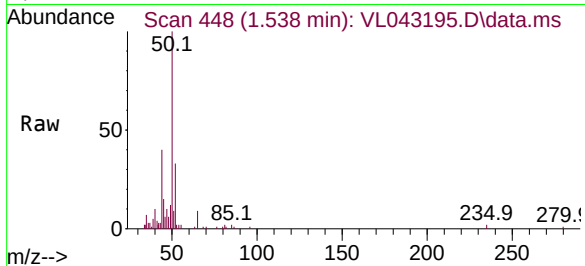
#4
Chloromethane
Concen: 0.414 ppbv
RT: 1.538 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 50 Resp: 3384
Ion Ratio Lower Upper
50 100
52 35.2 25.2 37.8

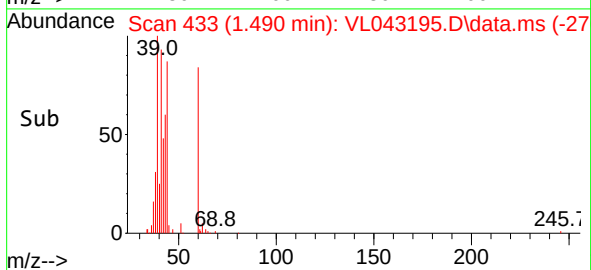
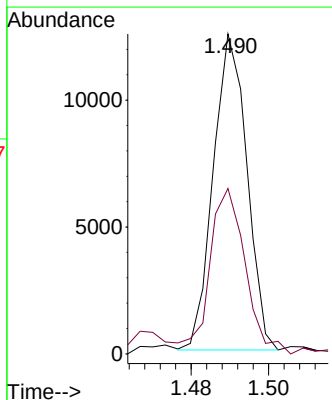
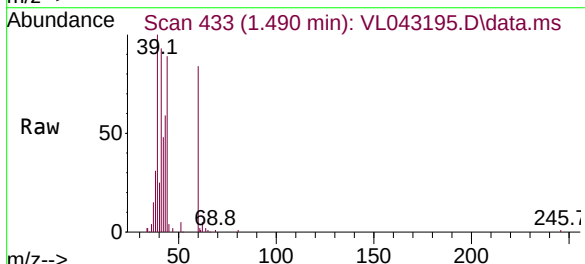
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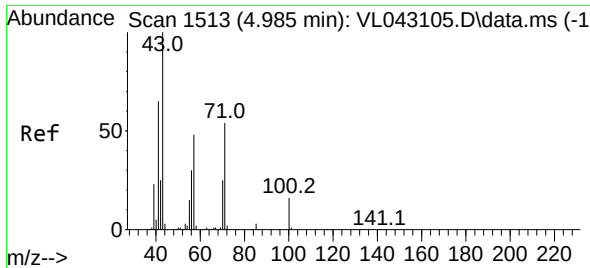
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#9
Propene
Concen: 0.758 ppbv
RT: 1.490 min Scan# 433
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

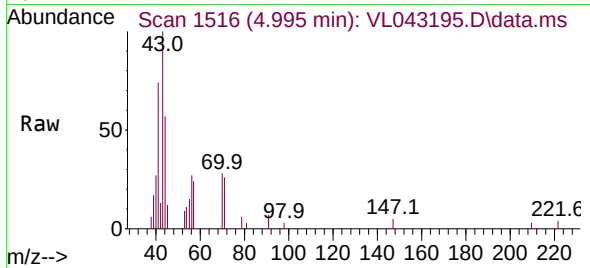
Tgt Ion: 41 Resp: 7501
Ion Ratio Lower Upper
41 100
42 65.4 55.1 82.7





#10
Heptane
Concen: 0.128 ppbv m
RT: 4.995 min Scan# 1516
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

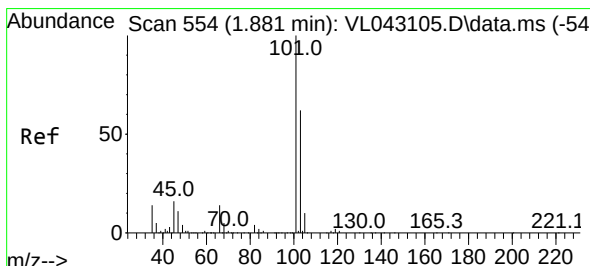
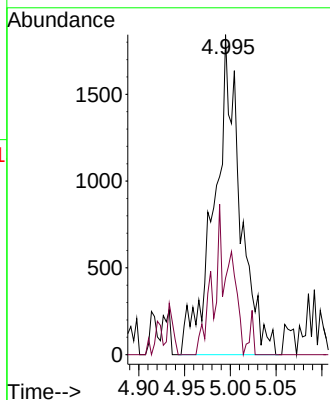
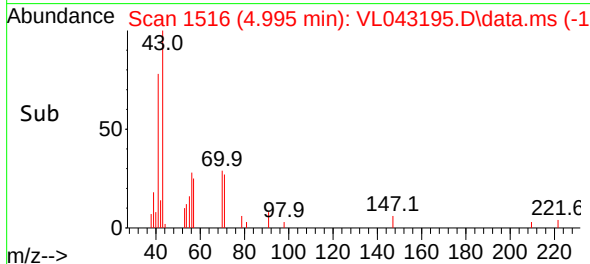
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP



Tgt Ion: 43 Resp: 3640
Ion Ratio Lower Upper
43 100
57 31.2 40.8 61.2

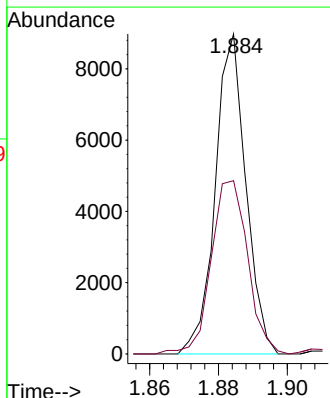
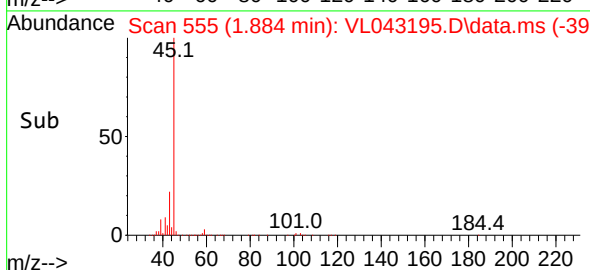
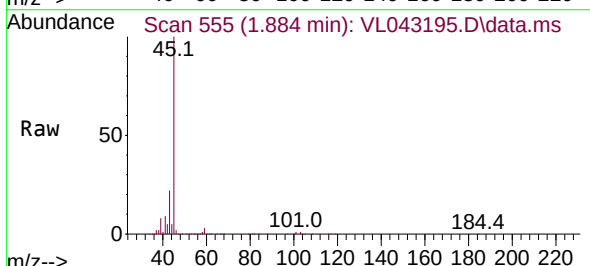
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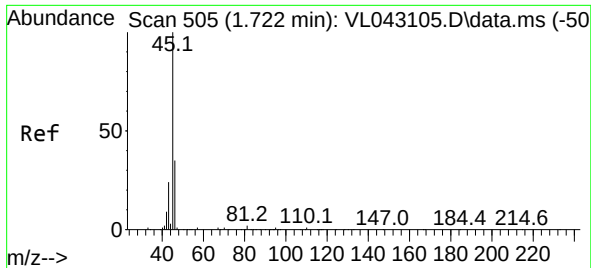
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#11
Trichlorofluoromethane
Concen: 0.275 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

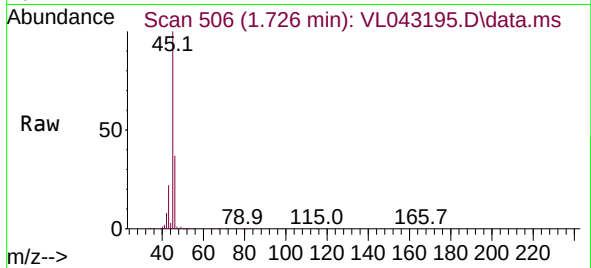
Tgt Ion:101 Resp: 5543
Ion Ratio Lower Upper
101 100
103 53.2 49.3 73.9





#13
Ethanol
Concen: 139.967 ppbv
RT: 1.726 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

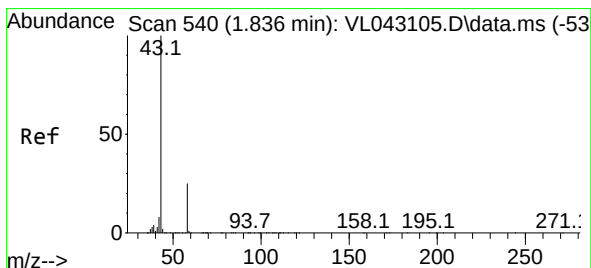
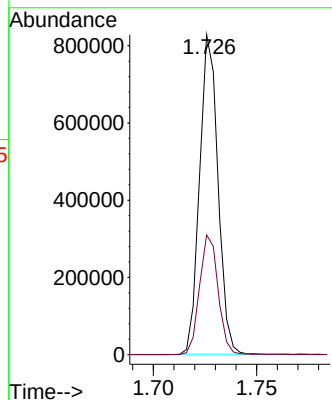
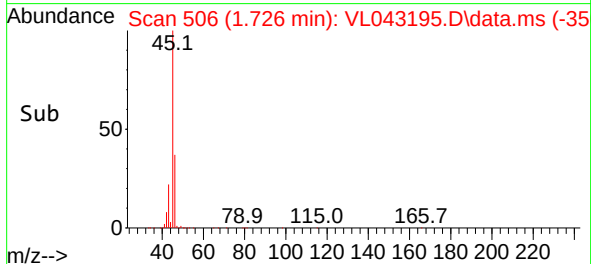
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP



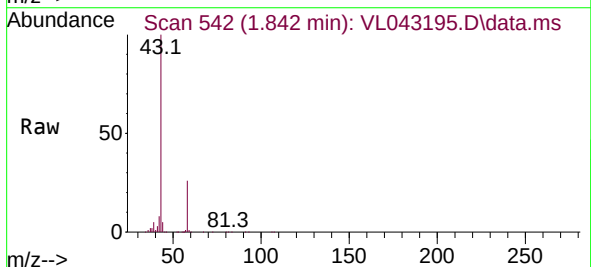
Tgt Ion: 45 Resp: 512276
Ion Ratio Lower Upper
45 100
46 37.9 14.7 58.9

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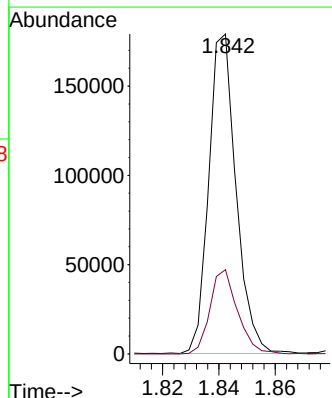
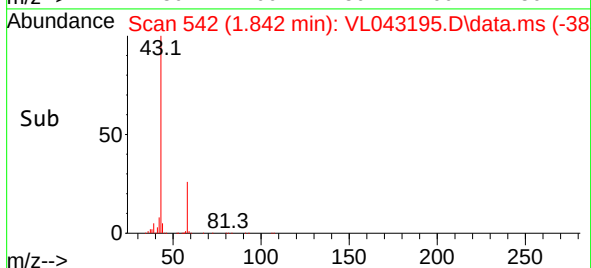
Reviewed By :Semsettin Yesilyurt 11/17/2025
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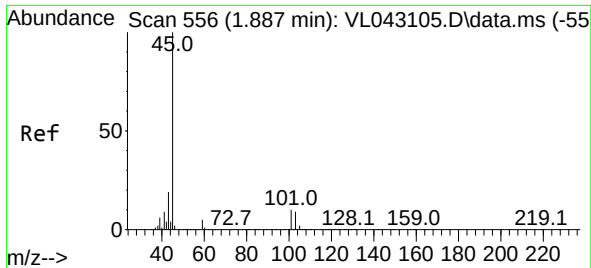


#15
Acetone
Concen: 6.182 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28



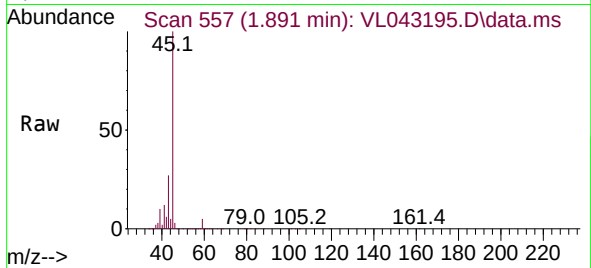
Tgt Ion: 43 Resp: 120845
Ion Ratio Lower Upper
43 100
58 26.5 20.8 31.2





#19
Isopropyl Alcohol
Concen: 142.677 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

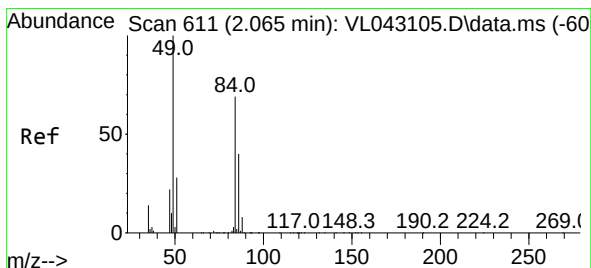
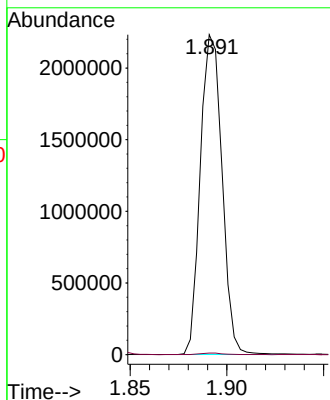
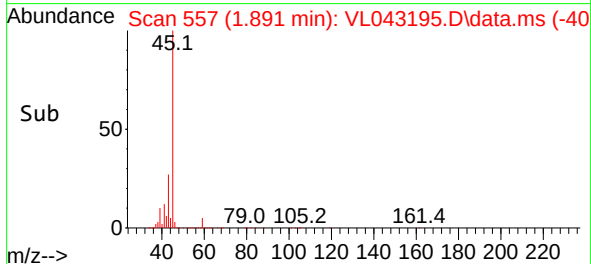
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MSVOA_L
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UNIT-7-IA-1DUP



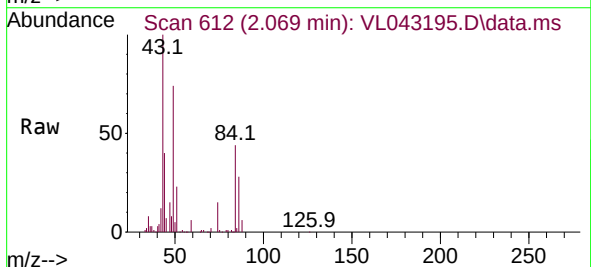
Tgt Ion: 45 Resp: 1737162
Ion Ratio Lower Upper
45 100
58 0.5 31.3 46.9

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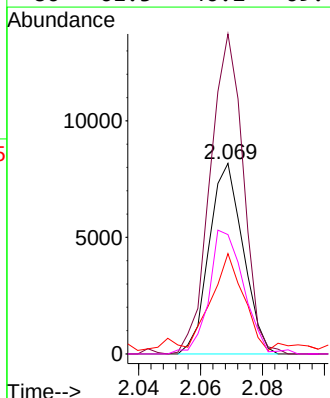
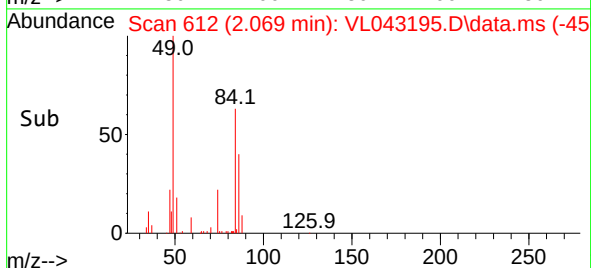
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

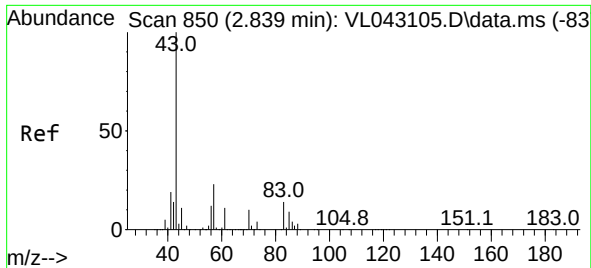


#20
Methylene Chloride
Concen: 0.807 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28



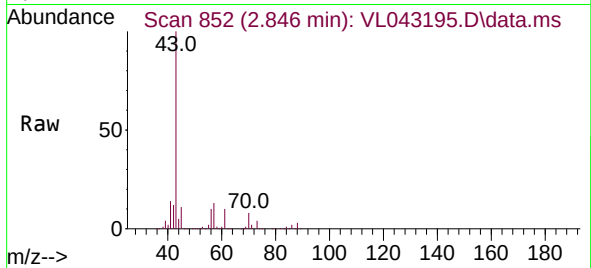
Tgt Ion: 84 Resp: 6233
Ion Ratio Lower Upper
84 100
49 167.1 116.6 175.0
51 47.9 34.8 52.2
86 61.3 46.2 69.4





#25
Ethyl Acetate
Concen: 2.201 ppbv m
RT: 2.846 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

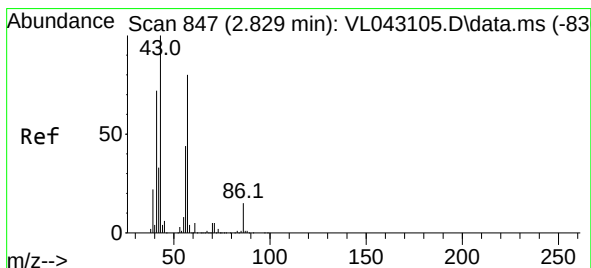
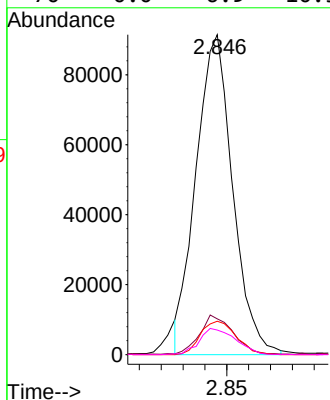
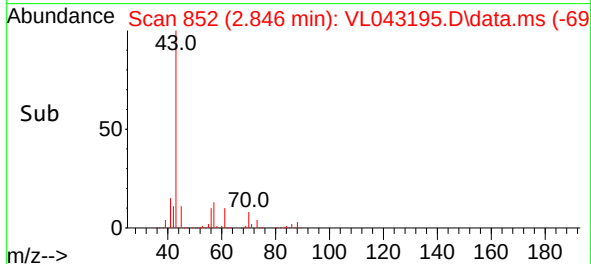
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP



Tgt Ion: 43 Resp: 106715
Ion Ratio Lower Upper
43 100
45 0.0 7.8 11.8
61 0.0 7.0 10.6
70 0.0 6.9 10.3

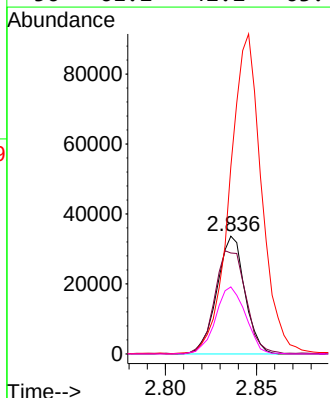
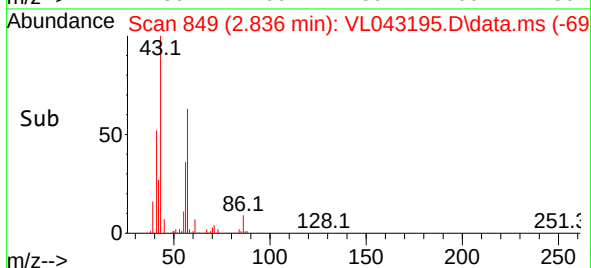
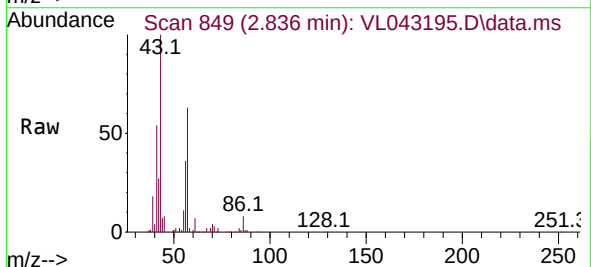
Manual Integrations
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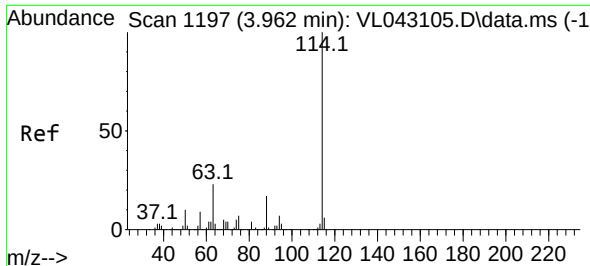
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#26
Hexane
Concen: 1.607 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 57 Resp: 35887
Ion Ratio Lower Upper
57 100
41 97.1 71.4 107.0
43 312.9 178.5 267.7
56 61.2 42.2 63.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.969 min Scan# 1199

Delta R.T. 0.007 min

Lab File: VL043195.D

Acq: 13 Nov 2025 12:28

Instrument :

MSVOA_L

ClientSampleId :

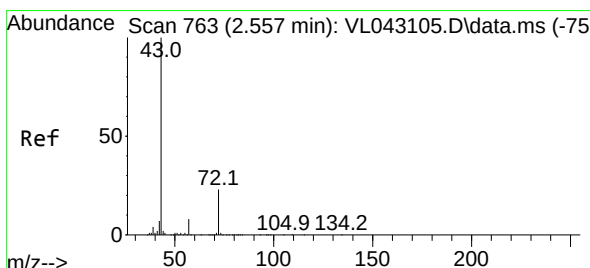
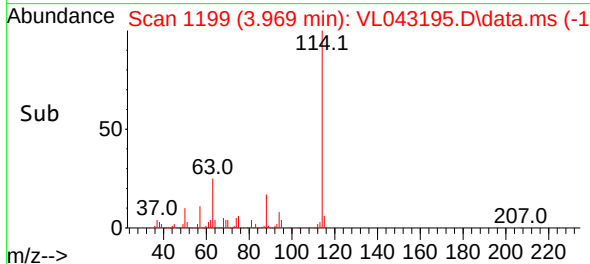
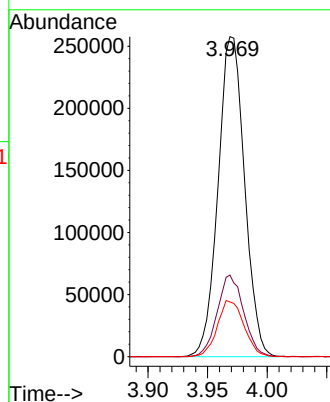
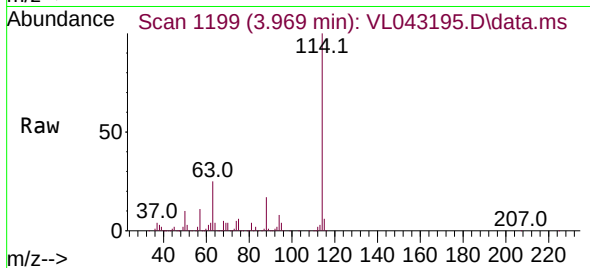
UNIT-7-IA-1DUP

Tgt Ion:	114	Resp:	398990
Ion	Ratio	Lower	Upper
114	100		
63	25.4	19.3	28.9
88	17.5	13.9	20.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#34

2-Butanone

Concen: 0.469 ppbv

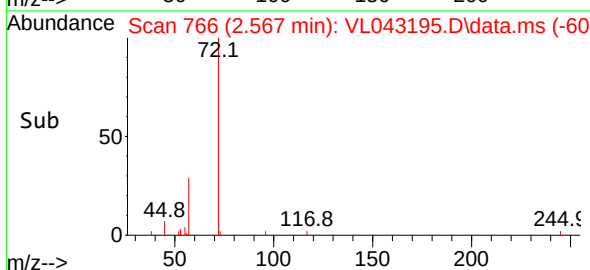
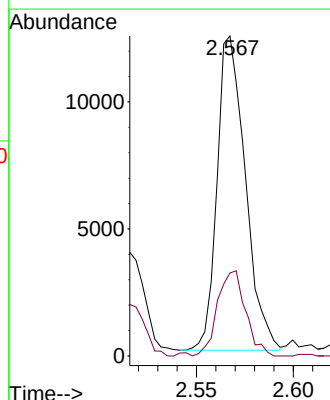
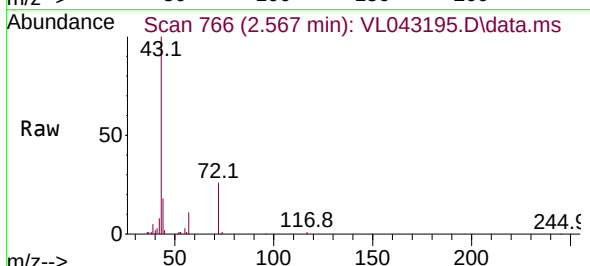
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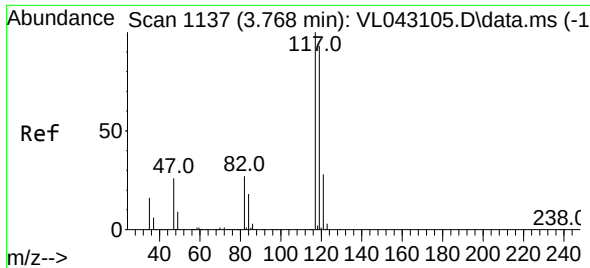
Delta R.T. 0.010 min

Lab File: VL043195.D

Acq: 13 Nov 2025 12:28

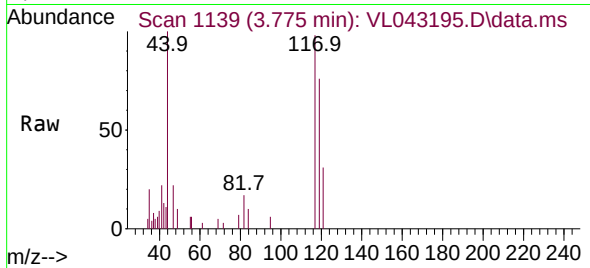
Tgt Ion:	43	Resp:	12586
Ion	Ratio	Lower	Upper
43	100		
72	27.1	18.4	27.6





#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 3.775 min Scan# 1137
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

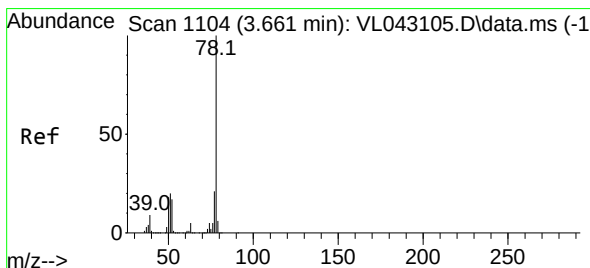
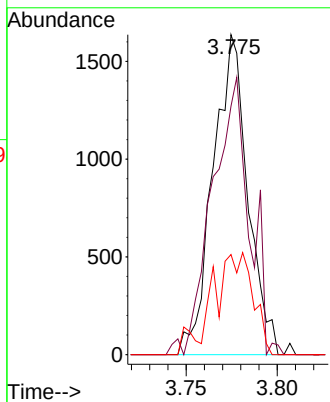
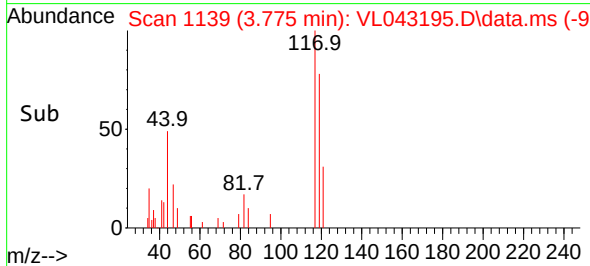
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP



Tgt Ion: 117 Resp: 2176
Ion Ratio Lower Upper
117 100
119 74.6 74.1 111.1
121 31.3 22.2 33.2

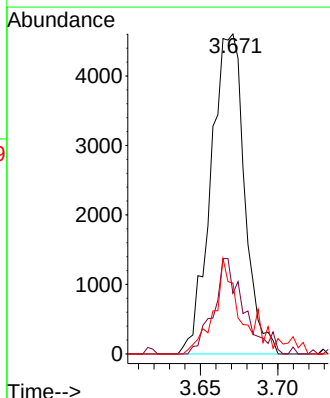
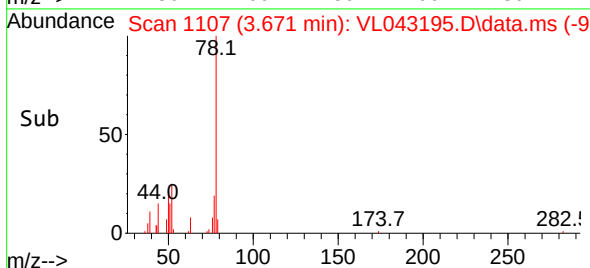
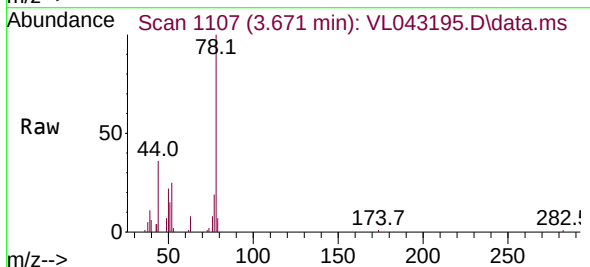
Manual Integrations
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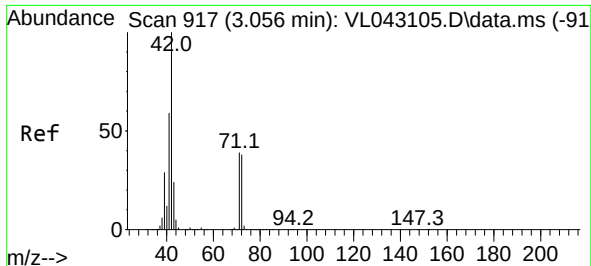
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#36
Benzene
Concen: 0.185 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

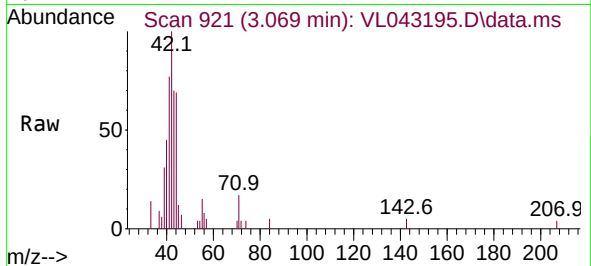
Tgt Ion: 78 Resp: 6968
Ion Ratio Lower Upper
78 100
77 18.9 17.0 25.6
50 22.1 14.6 22.0#





#41
Tetrahydrofuran
Concen: 0.143 ppbv m
RT: 3.069 min Scan# 917
Delta R.T. 0.013 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

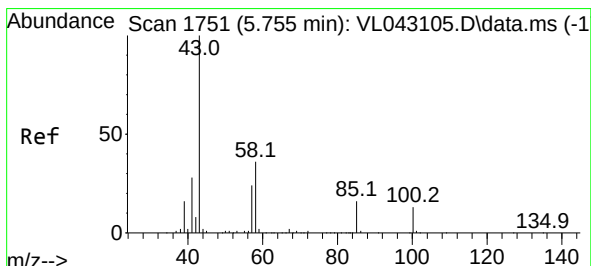
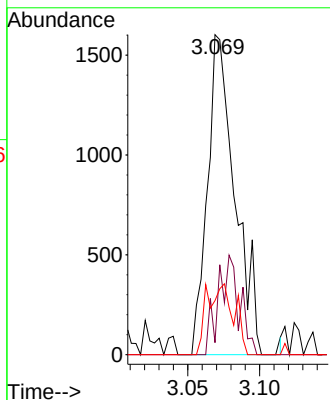
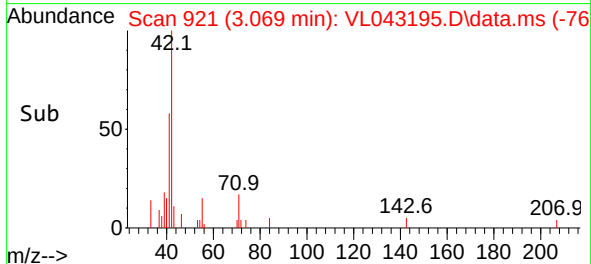
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP



Tgt Ion: 42 Resp: 2143
Ion Ratio Lower Upper
42 100
72 0.0 31.3 46.9
71 0.0 30.4 45.6

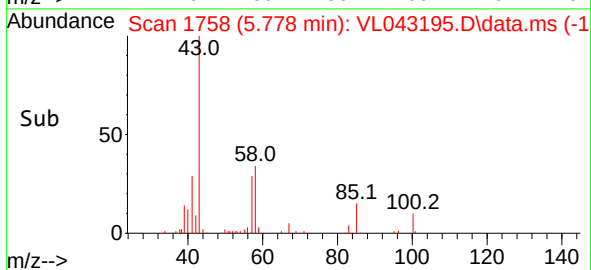
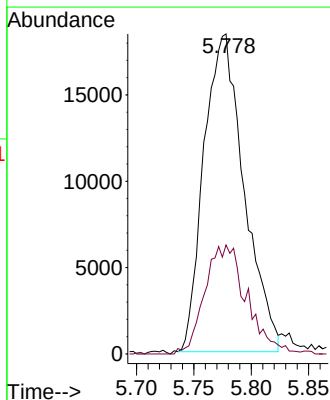
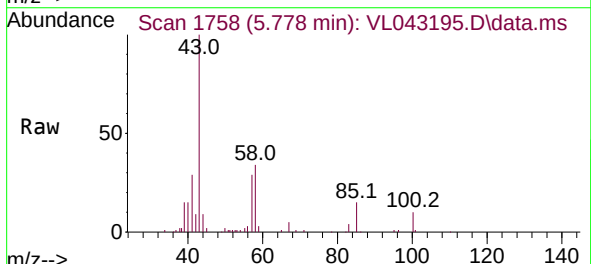
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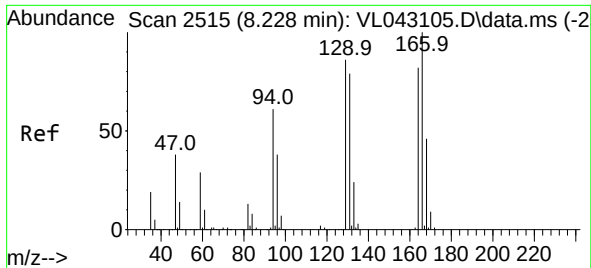
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#50
4-Methyl-2-Pentanone
Concen: 1.213 ppbv
RT: 5.778 min Scan# 1758
Delta R.T. 0.023 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

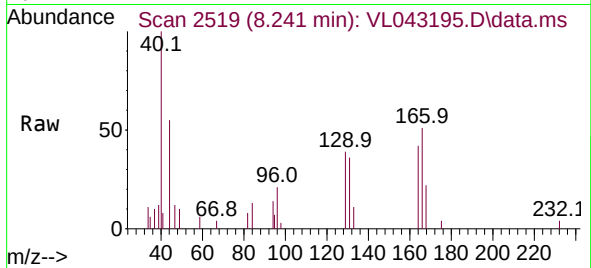
Tgt Ion: 43 Resp: 44901
Ion Ratio Lower Upper
43 100
58 35.7 29.1 43.7





#52
Tetrachloroethene
Concen: 0.061 ppbv m
RT: 8.241 min Scan# 2119
Delta R.T. 0.013 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

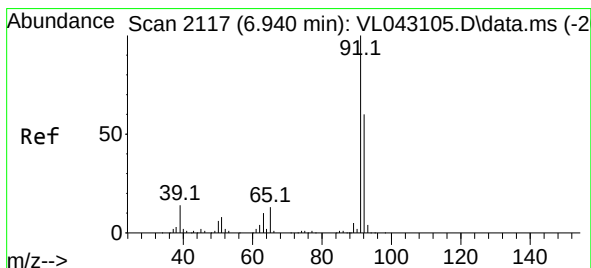
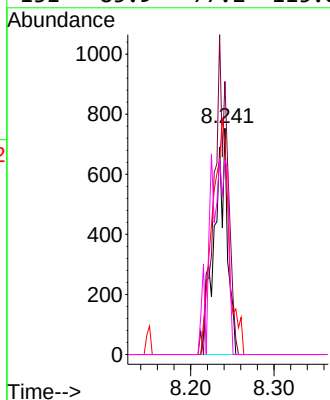
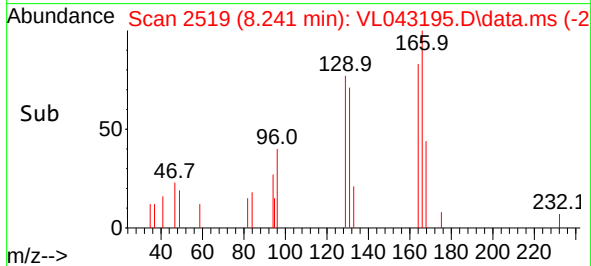
Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP



Tgt Ion:164 Resp: 825
Ion Ratio Lower Upper
164 100
166 120.7 97.6 146.4
129 93.4 84.5 126.7
131 85.9 77.2 115.8

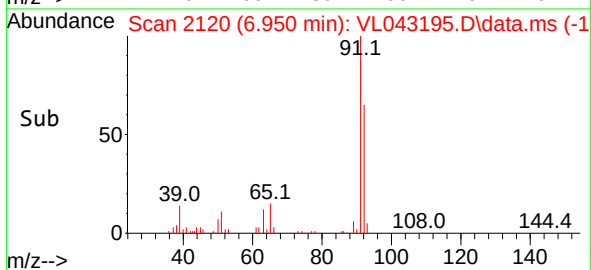
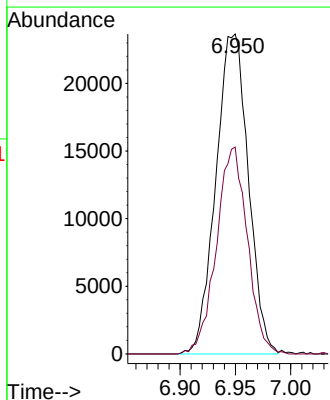
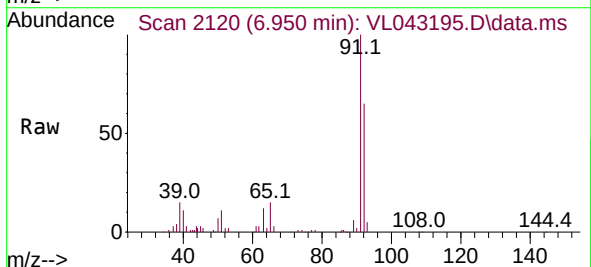
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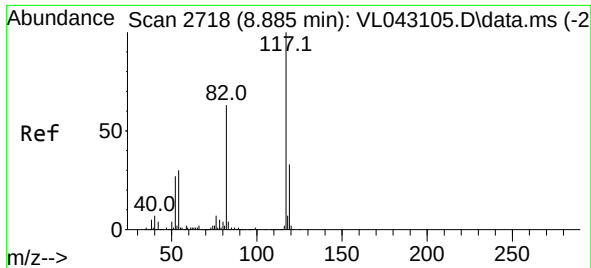
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#53
Toluene
Concen: 1.085 ppbv
RT: 6.950 min Scan# 2120
Delta R.T. 0.010 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 91 Resp: 48404
Ion Ratio Lower Upper
91 100
92 61.4 48.8 73.2





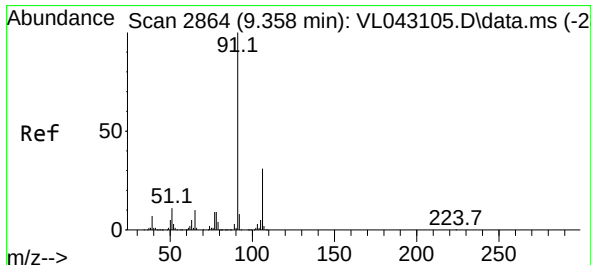
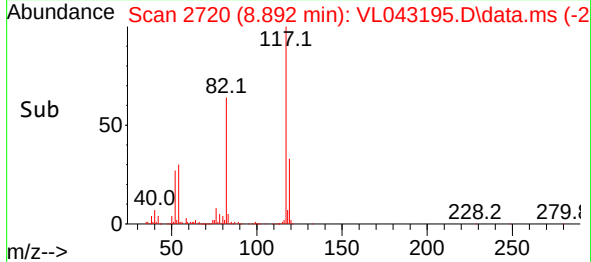
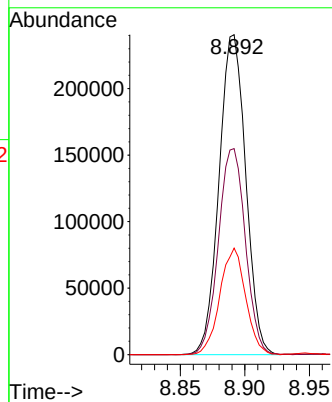
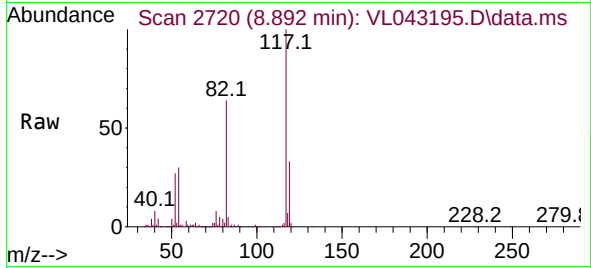
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2718
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 117 Resp: 346200
Ion Ratio Lower Upper
117 100
82 65.1 53.8 80.8
119 32.2 25.4 38.0

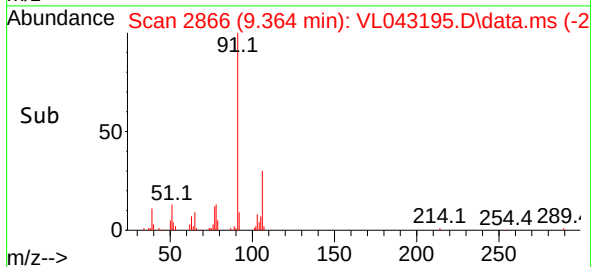
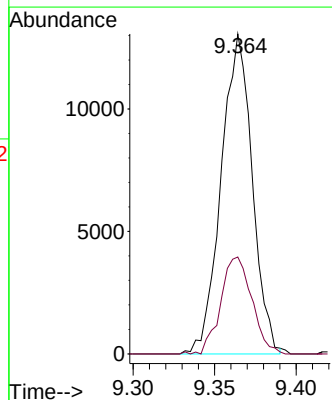
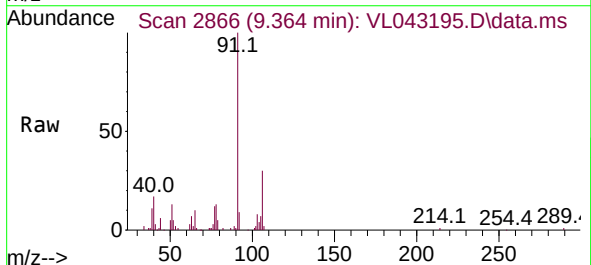
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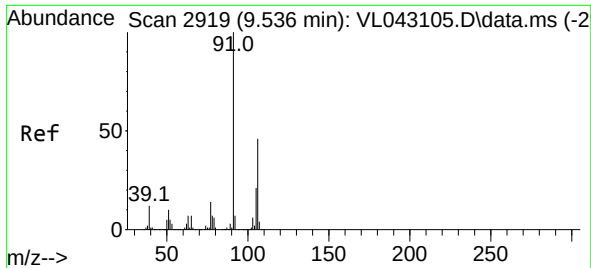
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#58
Ethyl Benzene
Concen: 0.292 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Tgt Ion: 91 Resp: 17354
Ion Ratio Lower Upper
91 100
106 30.3 24.8 37.2





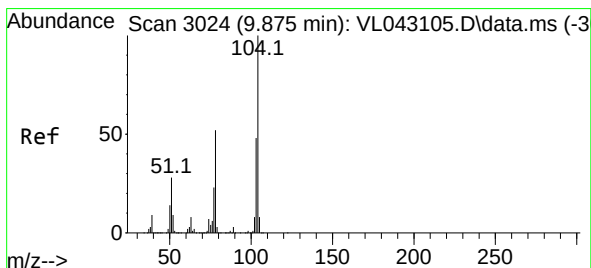
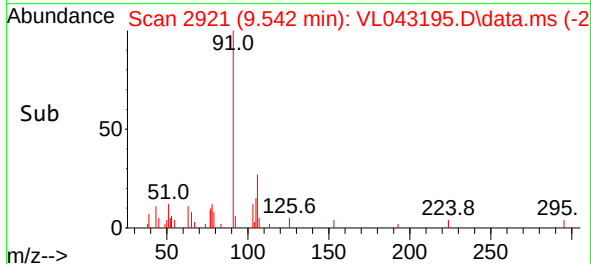
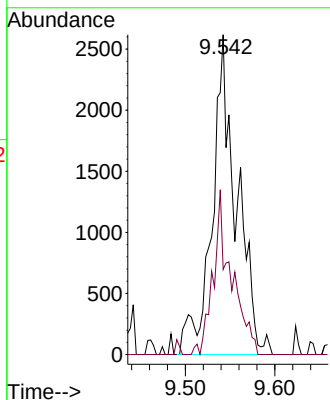
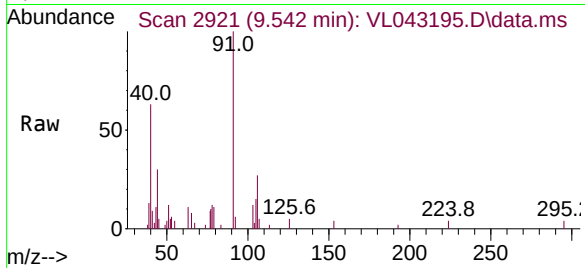
#59
m/p-Xylene
Concen: 0.104 ppbv m
RT: 9.542 min Scan# 2919
Delta R.T. 0.007 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

Instrument :
MSVOA_L
ClientSampleId :
UNIT-7-IA-1DUP

Tgt Ion: 91 Resp: 4937
Ion Ratio Lower Upper
91 100
106 38.6 38.0 57.0

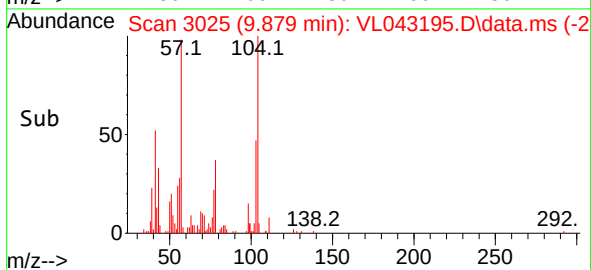
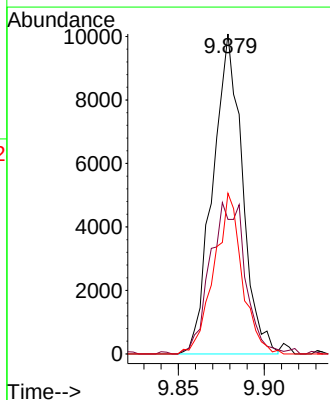
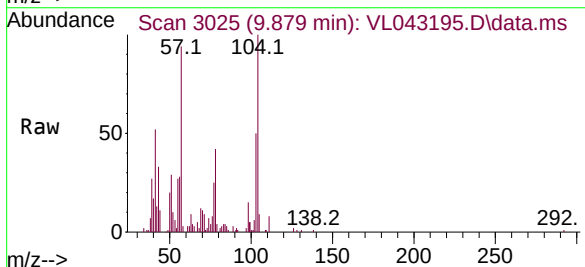
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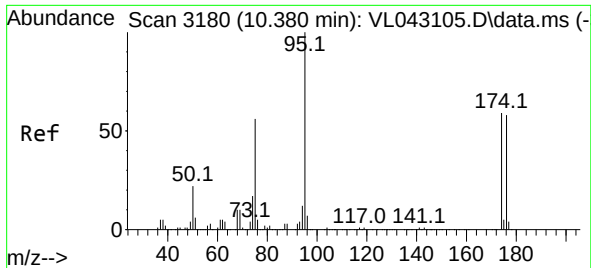
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#61
Styrene
Concen: 0.570 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.003 min
Lab File: VL043195.D
Acq: 13 Nov 2025 12:28

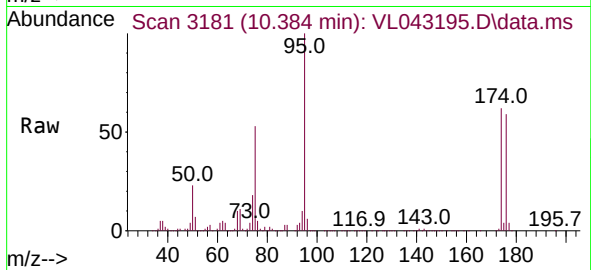
Tgt Ion:104 Resp: 12035
Ion Ratio Lower Upper
104 100
78 56.8 40.2 60.2
103 47.7 36.9 55.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.452 ppbv
 RT: 10.384 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL043195.D
 Acq: 13 Nov 2025 12:28

Instrument :
 MSVOA_L
 ClientSampleId :
 UNIT-7-IA-1DUP



Tgt Ion: 95 Resp: 281256
 Ion Ratio Lower Upper
 95 100
 174 64.7 48.3 72.5
 175 4.6 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
 Supervised By :Mahesh Dadoda 11/18/2025

