

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043074.D
 Acq On : 09 Oct 2025 00:22
 Operator : SY/MD
 Sample : Q3320-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/09/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:26:56 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-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	2.781	49	167022	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	426656	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	339471	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	238110	9.737	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	14910	0.530	ppbv	97
3) Chlorodifluoromethane	1.473	51	11666m	0.428	ppbv	
4) Chloromethane	1.531	50	5306	0.516	ppbv	94
9) Propene	1.486	41	11608	1.057	ppbv #	80
11) Trichlorofluoromethane	1.874	101	7450	0.258	ppbv	100
13) Ethanol	1.719	45	114736	287.088	ppbv	88
15) Acetone	1.832	43	94442	4.038	ppbv	100
20) Methylene Chloride	2.059	84	19598	1.920	ppbv #	89
26) Hexane	2.819	57	26844	1.189	ppbv #	35
29) Chloroform	2.839	83	3994	0.104	ppbv	93
34) 2-Butanone	2.554	43	5741	0.198	ppbv	96
35) Carbon Tetrachloride	3.755	117	2979m	0.085	ppbv	
38) Trichloroethene	4.535	130	666m	0.039	ppbv	
52) Tetrachloroethene	8.212	164	576m	0.038	ppbv	
53) Toluene	6.920	91	7415	0.180	ppbv	98

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

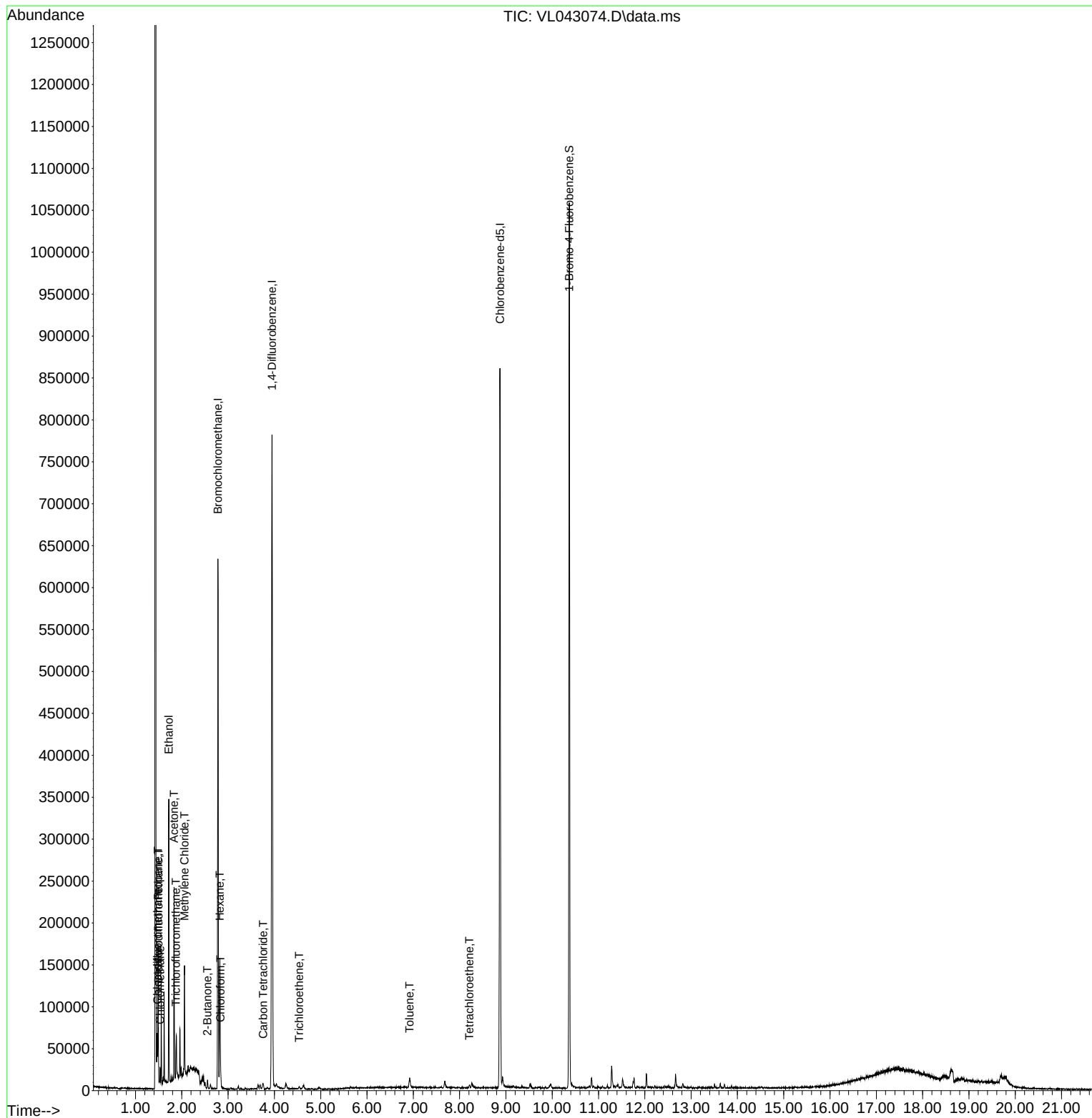
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043074.D
Acq On : 09 Oct 2025 00:22
Operator : SY/MD
Sample : Q3320-05
Misc : 400mL/MSVOA_L
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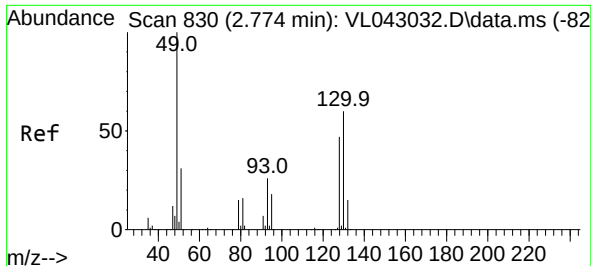
Instrument :
MSVOA_L
ClientSampleId :
IA3

Quant Time: Oct 09 01:26:56 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

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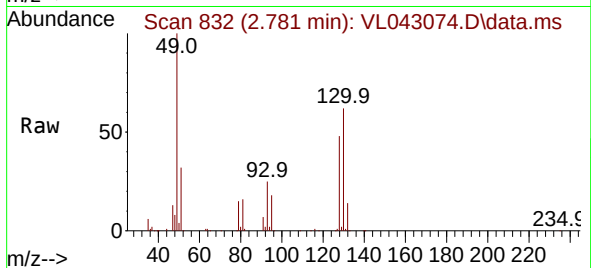
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22

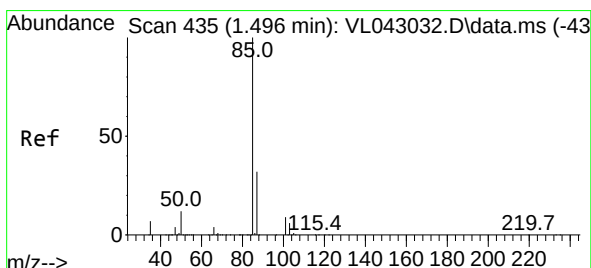
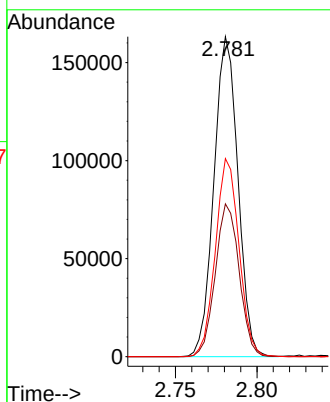
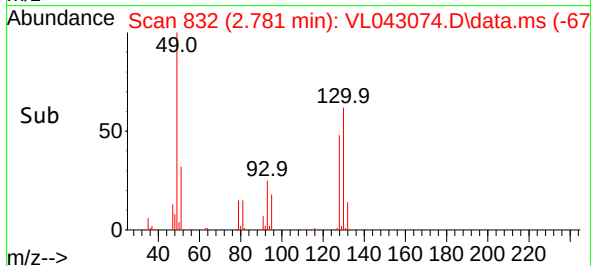
Instrument :
MSVOA_L
ClientSampleId :
IA3



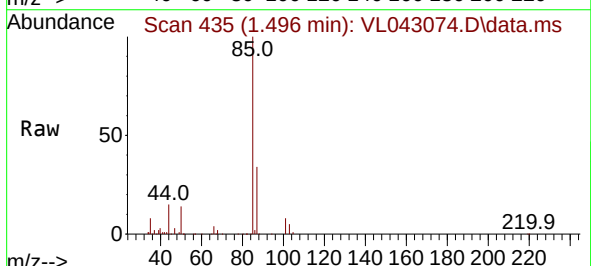
Tgt Ion: 49 Resp: 16702
Ion Ratio Lower Upper
49 100
128 47.6 24.1 72.2
130 61.0 31.4 94.3

Manual Integrations
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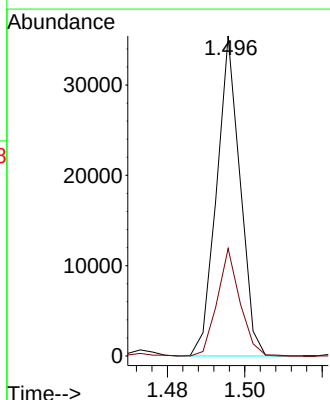
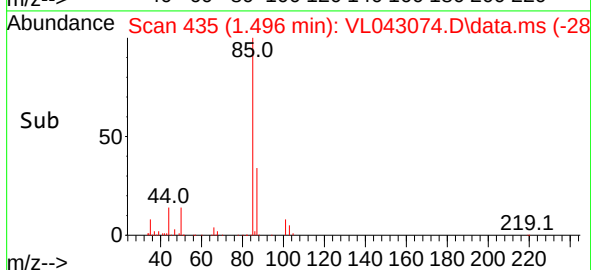
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

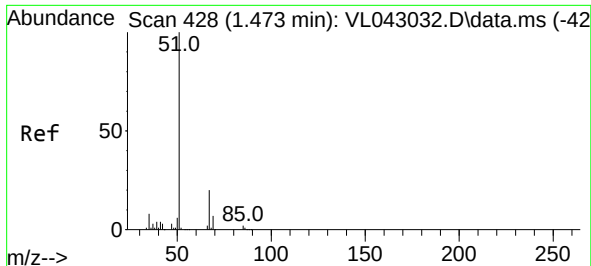


#2
Dichlorodifluoromethane
Concen: 0.530 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22



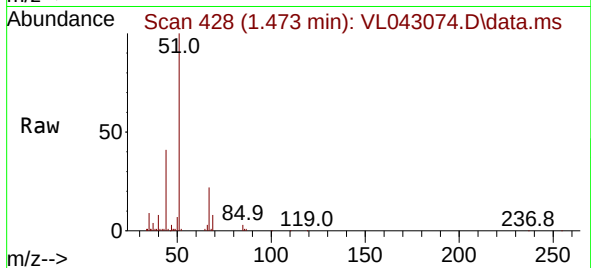
Tgt Ion: 85 Resp: 14910
Ion Ratio Lower Upper
85 100
87 33.6 25.8 38.6





#3
Chlorodifluoromethane
Concen: 0.428 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22

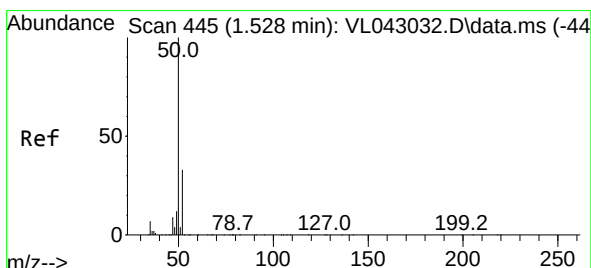
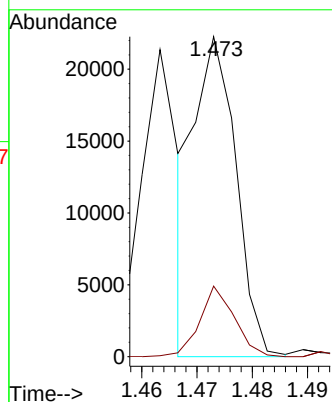
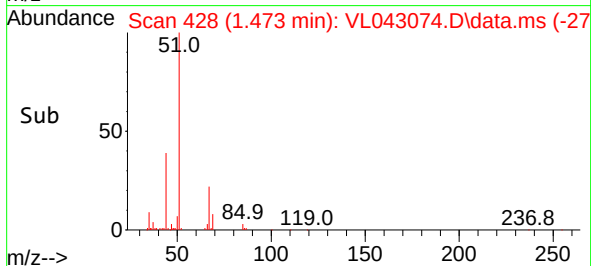
Instrument :
MSVOA_L
ClientSampleId :
IA3



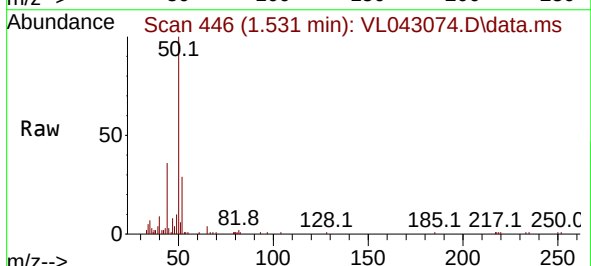
Tgt Ion: 51 Resp: 1166
Ion Ratio Lower Upper
51 100
67 19.1 15.1 22.7

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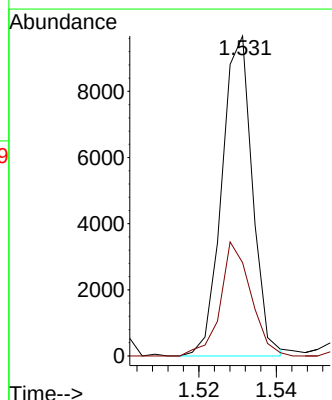
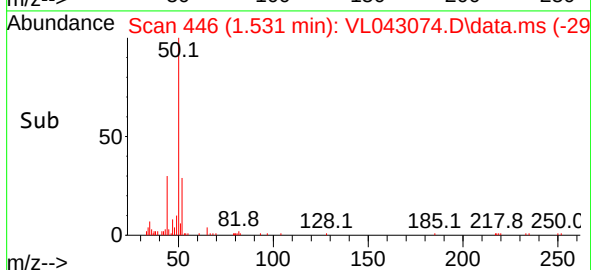
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

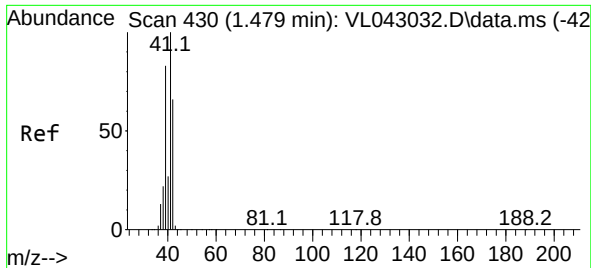


#4
Chloromethane
Concen: 0.516 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22



Tgt Ion: 50 Resp: 5306
Ion Ratio Lower Upper
50 100
52 29.2 26.2 39.2





#9

Propene

Concen: 1.057 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL043074.D

Acq: 09 Oct 2025 00:22

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 41 Resp: 11608

Ion Ratio Lower Upper

41 100

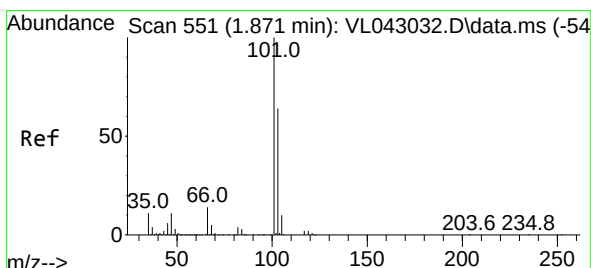
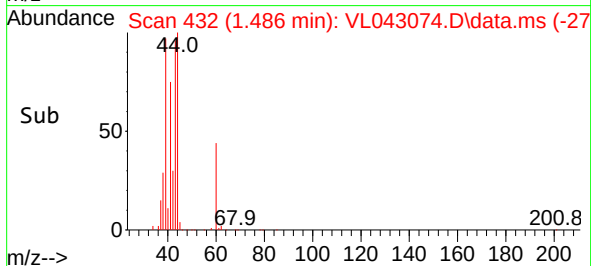
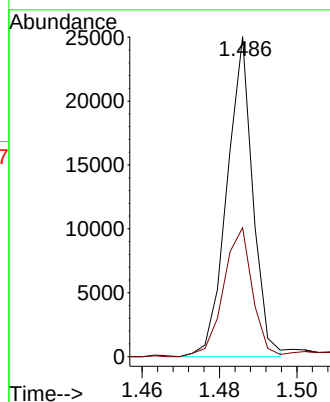
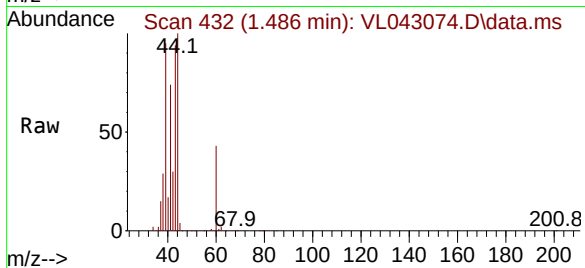
42 50.8 53.3 79.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#11

Trichlorofluoromethane

Concen: 0.258 ppbv

RT: 1.874 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL043074.D

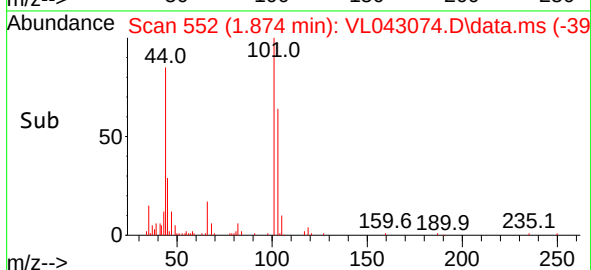
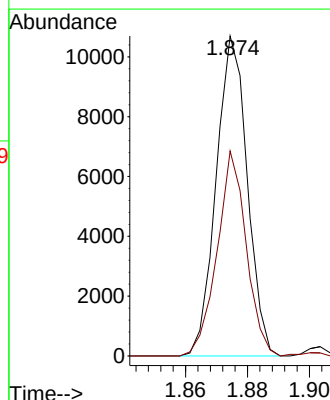
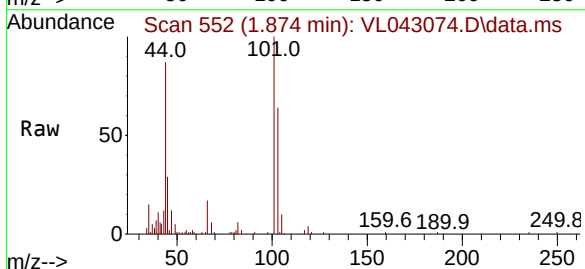
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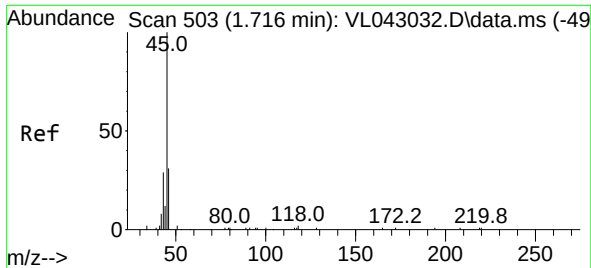
Tgt Ion:101 Resp: 7450

Ion Ratio Lower Upper

101 100

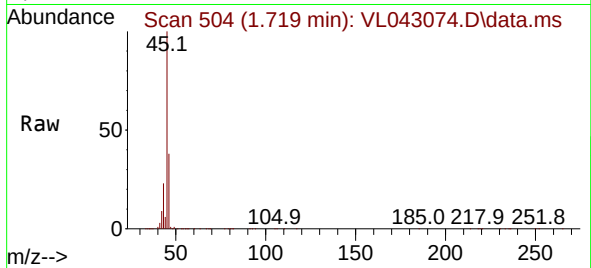
103 64.1 51.1 76.7





#13
Ethanol
Concen: 287.088 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22

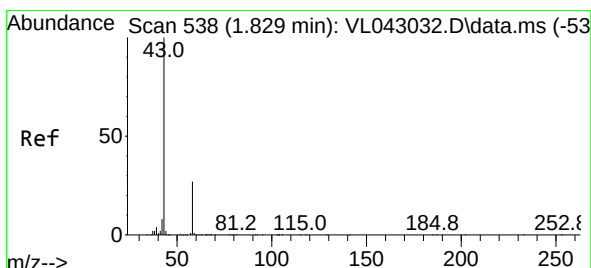
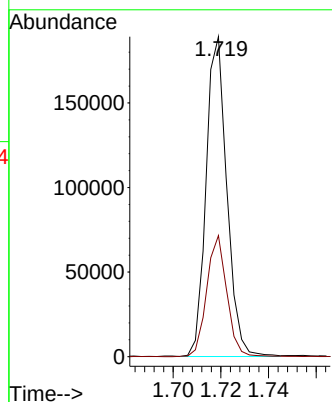
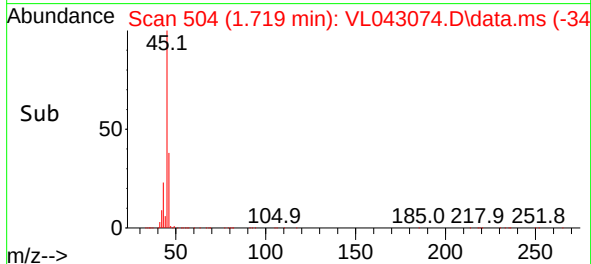
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 45 Resp: 114730
Ion Ratio Lower Upper
45 100
46 36.9 17.8 71.4

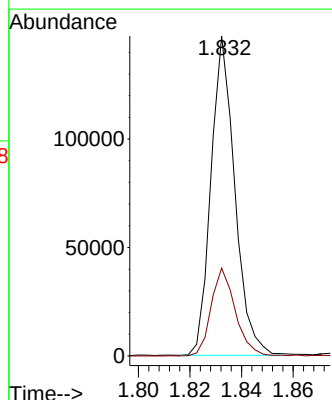
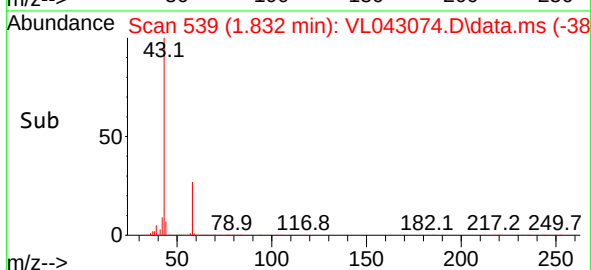
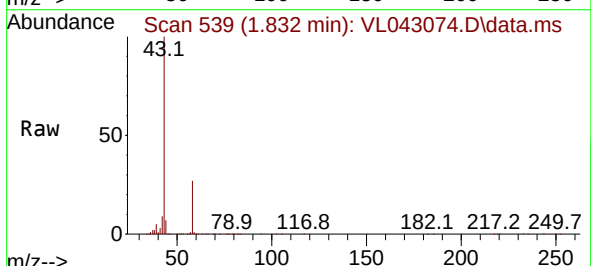
Manual Integrations
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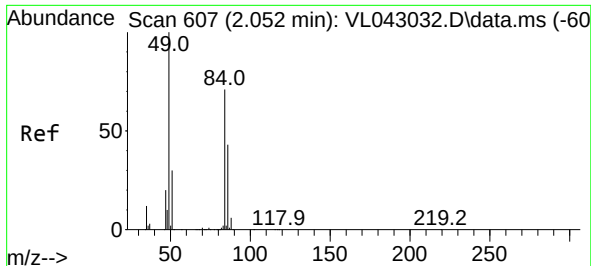
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 4.038 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22

Tgt Ion: 43 Resp: 94442
Ion Ratio Lower Upper
43 100
58 28.0 22.2 33.4





#20

Methylene Chloride

Concen: 1.920 ppbv

RT: 2.059 min Scan# 607

Delta R.T. 0.007 min

Lab File: VL043074.D

Acq: 09 Oct 2025 00:22

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 84 Resp: 19598

Ion Ratio Lower Upper

84 100

49 151.1 112.5 168.7

51 52.3 34.2 51.2

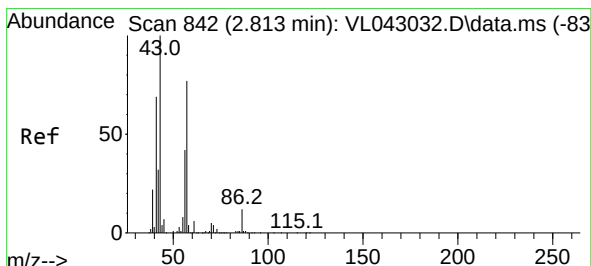
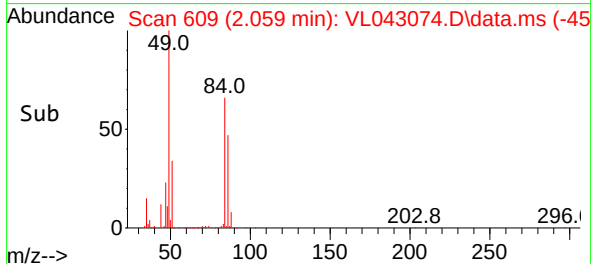
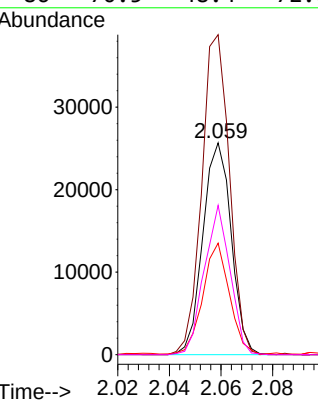
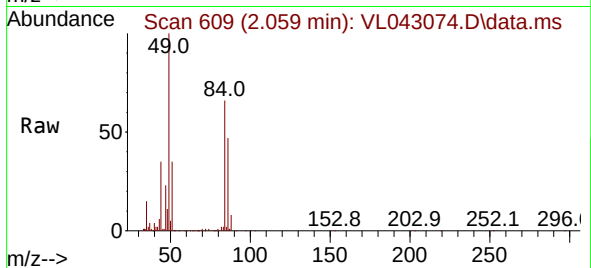
86 70.5 48.4 72.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#26

Hexane

Concen: 1.189 ppbv

RT: 2.819 min Scan# 844

Delta R.T. 0.007 min

Lab File: VL043074.D

Acq: 09 Oct 2025 00:22

Tgt Ion: 57 Resp: 26844

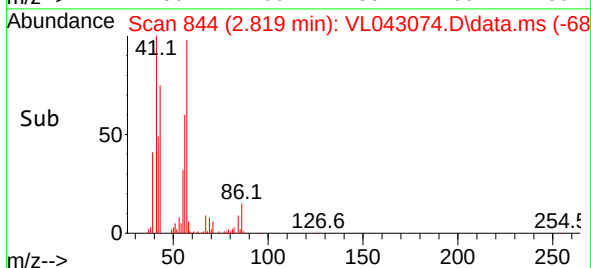
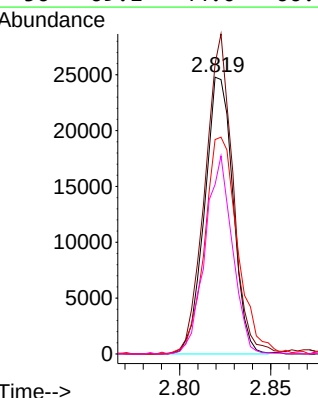
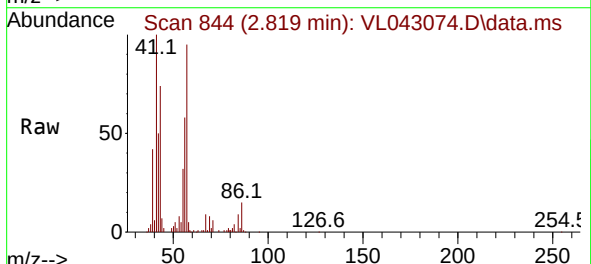
Ion Ratio Lower Upper

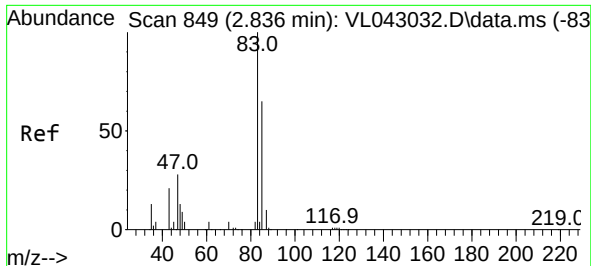
57 100

41 115.2 76.1 114.1#

43 91.5 201.4 302.0#

56 69.1 44.0 66.0#





#29

Chloroform

Concen: 0.104 ppbv

RT: 2.839 min Scan# 849

Delta R.T. 0.003 min

Lab File: VL043074.D

Acq: 09 Oct 2025 00:22

Instrument :

MSVOA_L

ClientSampleId :

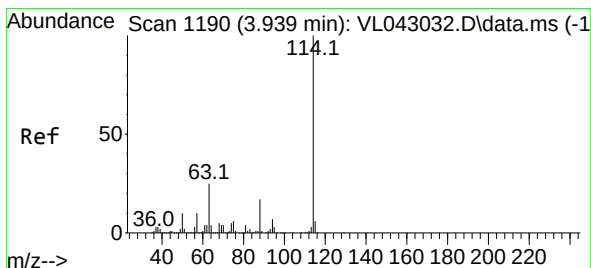
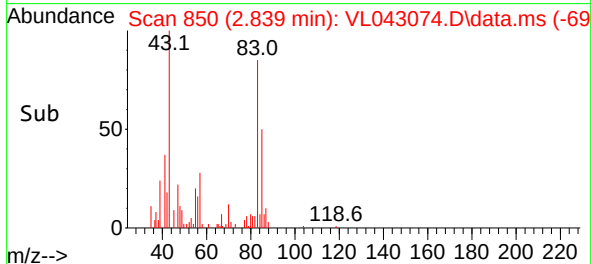
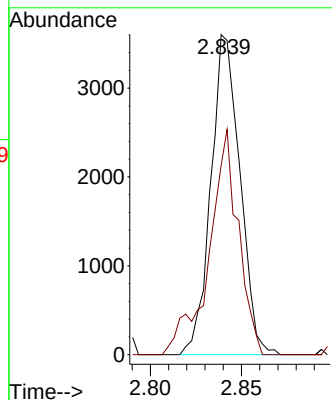
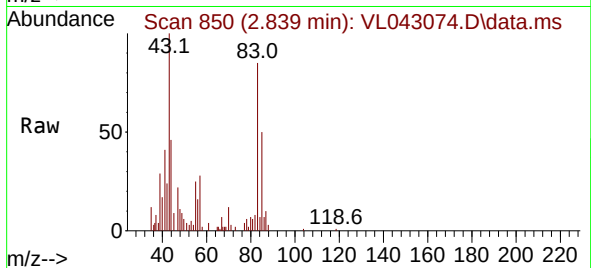
IA3

Tgt Ion: 83 Resp: 3994
 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

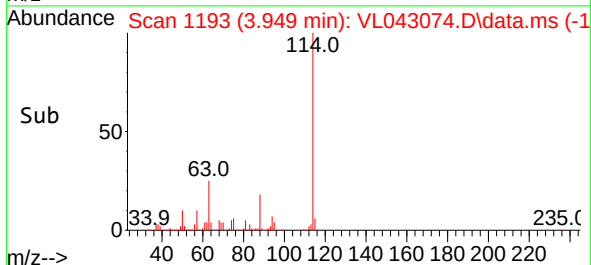
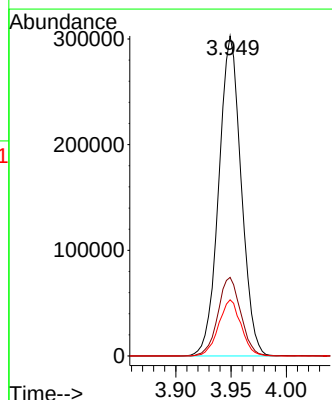
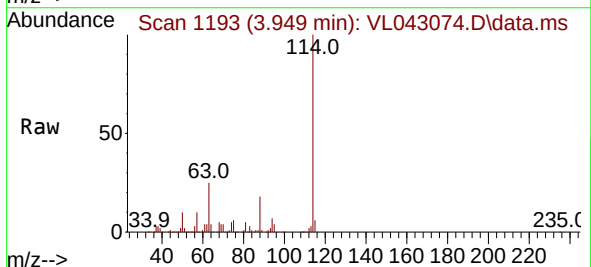
RT: 3.949 min Scan# 1193

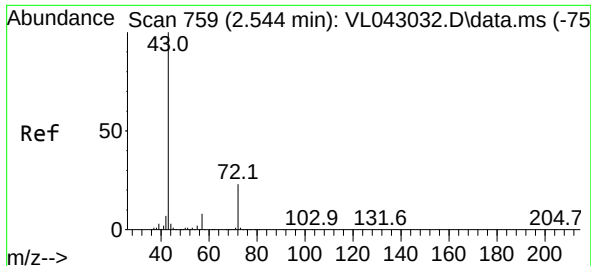
Delta R.T. 0.010 min

Lab File: VL043074.D

Acq: 09 Oct 2025 00:22

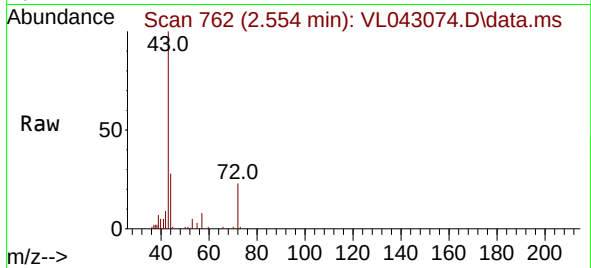
Tgt Ion:114 Resp: 426656
 Ion Ratio Lower Upper
 114 100
 63 25.1 19.4 29.2
 88 17.5 13.9 20.9





#34
2-Butanone
Concen: 0.198 ppbv
RT: 2.554 min Scan# 759
Delta R.T. 0.010 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22

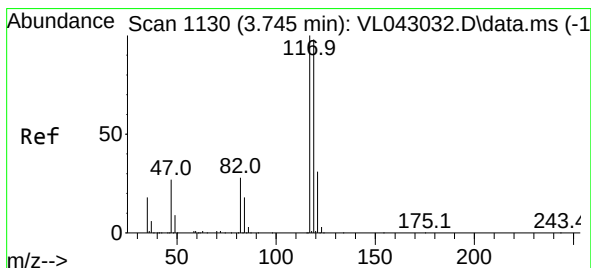
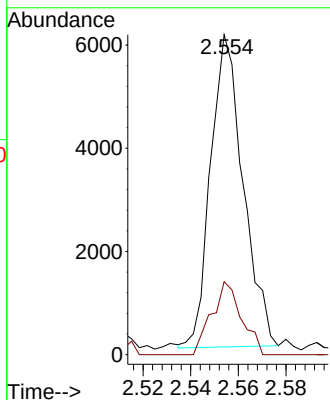
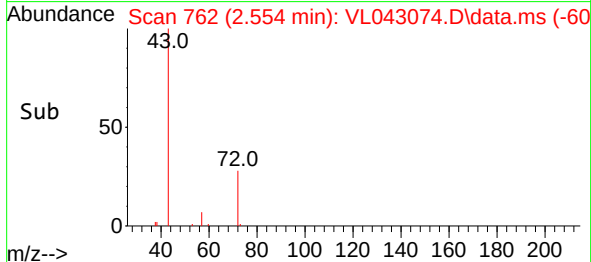
Instrument :
MSVOA_L
ClientSampleId :
IA3



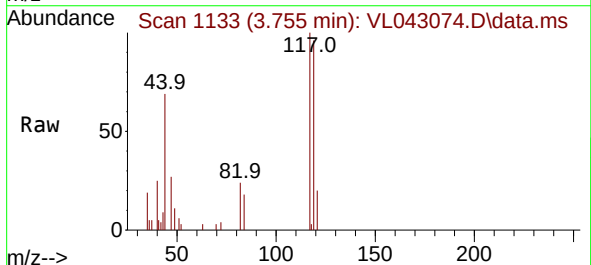
Tgt Ion: 43 Resp: 574
Ion Ratio Lower Upper
43 100
72 21.3 18.4 27.6

Manual Integrations
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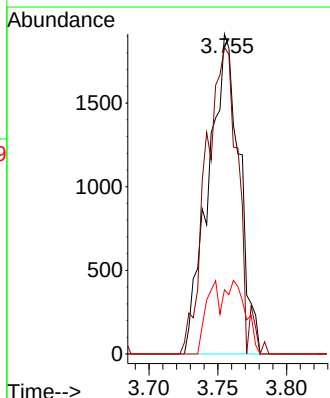
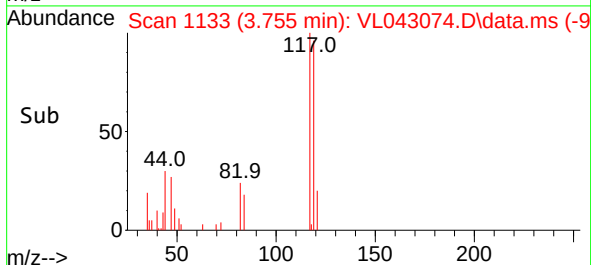
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

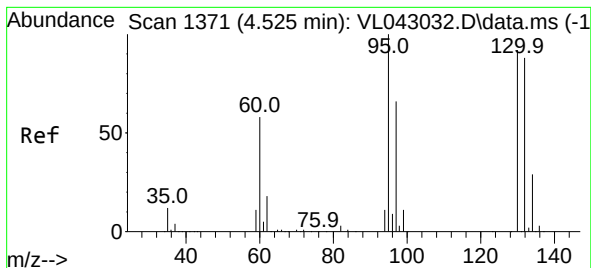


#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 3.755 min Scan# 1133
Delta R.T. 0.010 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22



Tgt Ion:117 Resp: 2979
Ion Ratio Lower Upper
117 100
119 95.9 78.2 117.4
121 20.1 24.8 37.2#





#38

Trichloroethene

Concen: 0.039 ppbv m

RT: 4.535 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL043074.D

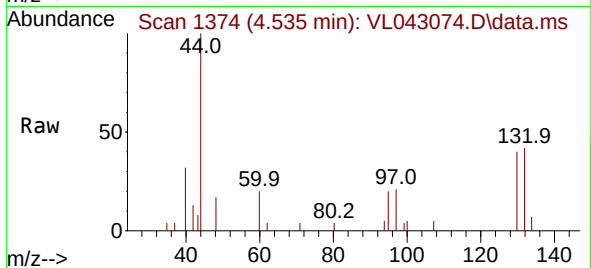
Acq: 09 Oct 2025 00:22

Instrument :

MSVOA_L

ClientSampleId :

IA3



Tgt Ion:130 Resp: 660

Ion Ratio Lower Upper

130 100

95 48.9 86.4 129.6

132 105.1 75.7 113.5

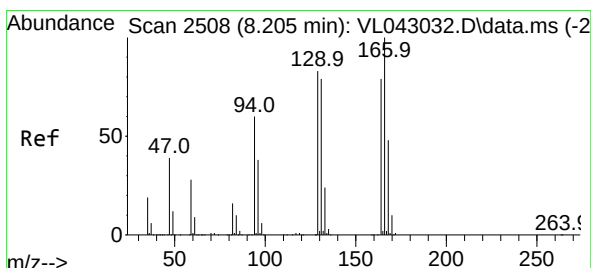
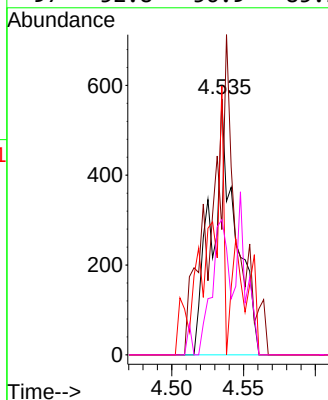
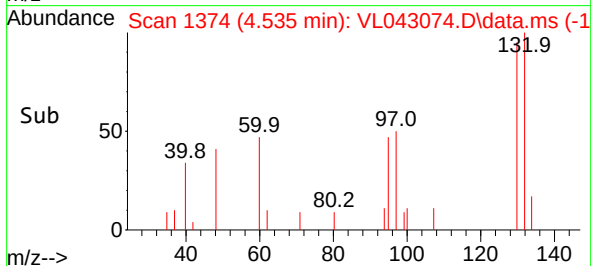
97 52.8 56.9 85.3#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#52

Tetrachloroethene

Concen: 0.038 ppbv m

RT: 8.212 min Scan# 2510

Delta R.T. 0.007 min

Lab File: VL043074.D

Acq: 09 Oct 2025 00:22

Tgt Ion:164 Resp: 576

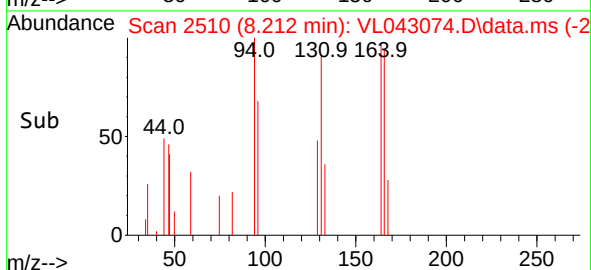
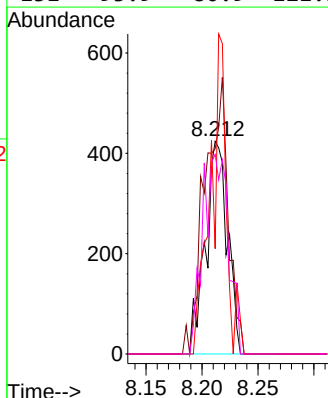
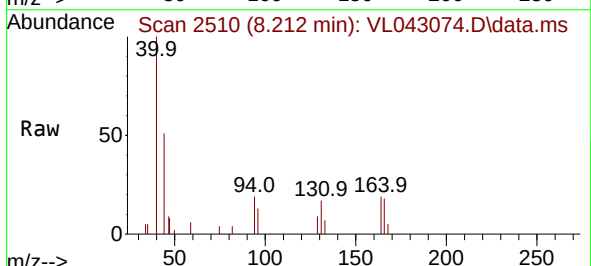
Ion Ratio Lower Upper

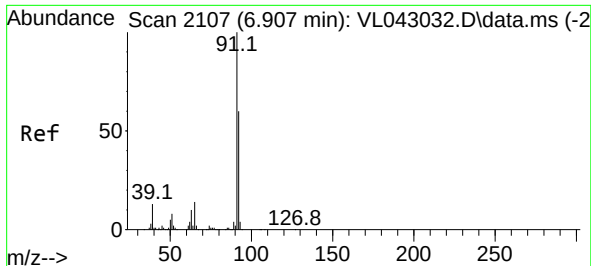
164 100

166 96.5 101.8 152.8#

129 49.5 84.5 126.7#

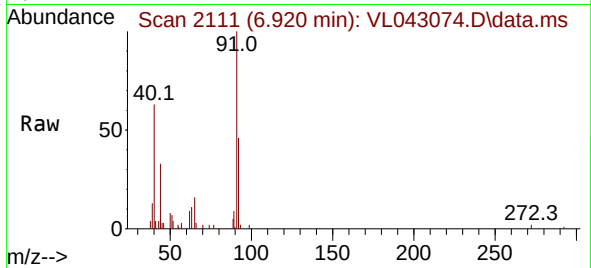
131 93.9 80.9 121.3





#53
Toluene
Concen: 0.180 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. 0.013 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22

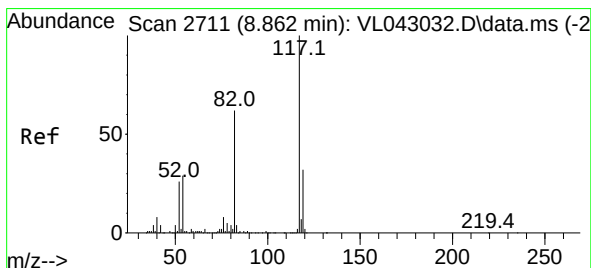
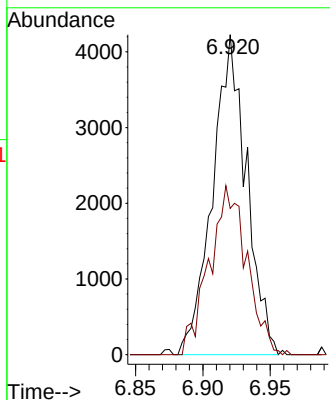
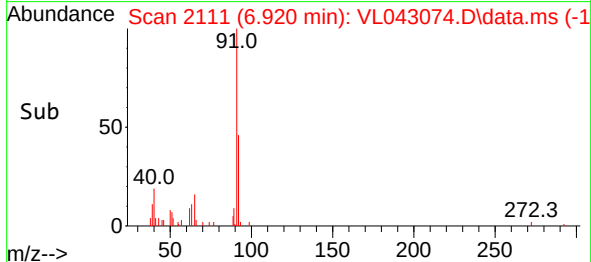
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 91 Resp: 741
Ion Ratio Lower Upper
91 100
92 58.2 47.8 71.6

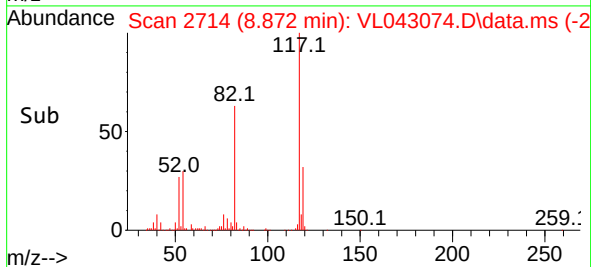
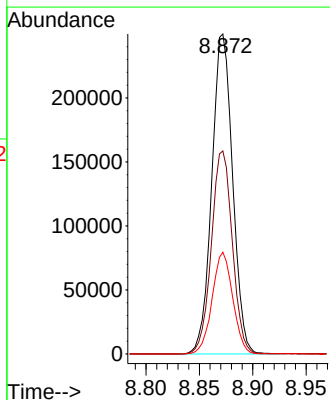
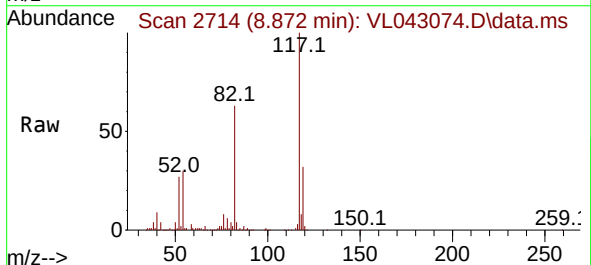
Manual Integrations
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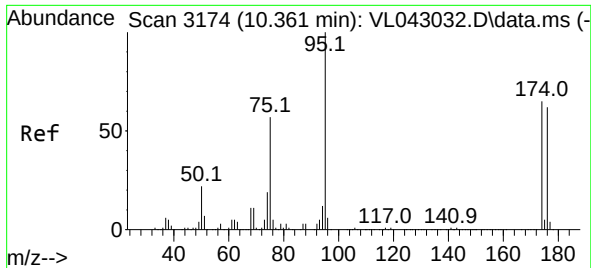
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.010 min
Lab File: VL043074.D
Acq: 09 Oct 2025 00:22

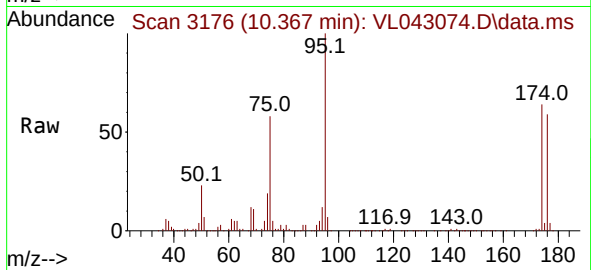
Tgt Ion:117 Resp: 339471
Ion Ratio Lower Upper
117 100
82 63.8 53.0 79.6
119 31.5 25.4 38.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.737 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. 0.007 min
 Lab File: VL043074.D
 Acq: 09 Oct 2025 00:22

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3



Tgt Ion: 95 Resp: 238110
 Ion Ratio Lower Upper
 95 100
 174 65.3 52.3 78.5
 175 4.6 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

