

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042893.D
 Acq On : 04 Sep 2025 16:53
 Operator : SY/MD
 Sample : Q3000-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:23:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	122666	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	326405	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	275541	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	211831	10.251	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	9023	0.502	ppbv	93
3) Chlorodifluoromethane	1.479	51	18038	0.908	ppbv	99
4) Chloromethane	1.538	50	3386	0.467	ppbv	98
9) Propene	1.492	41	3270	0.381	ppbv #	17
11) Trichlorofluoromethane	1.884	101	4658	0.263	ppbv	88
13) Ethanol	1.729	45	12445	15.860	ppbv	96
15) Acetone	1.842	43	72197	4.449	ppbv	100
19) Isopropyl Alcohol	1.894	45	8676	0.895	ppbv #	1
20) Methylene Chloride	2.068	84	4915	0.723	ppbv	92
26) Hexane	2.842	57	4354	0.240	ppbv #	52
34) 2-Butanone	2.570	43	6784	0.308	ppbv	99
35) Carbon Tetrachloride	3.774	117	1927m	0.086	ppbv	
36) Benzene	3.674	78	3685m	0.118	ppbv	
52) Tetrachloroethene	8.247	164	529m	0.047	ppbv	
53) Toluene	6.959	91	8604	0.232	ppbv	98
59) m/p-Xylene	9.548	91	5335m	0.140	ppbv	

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

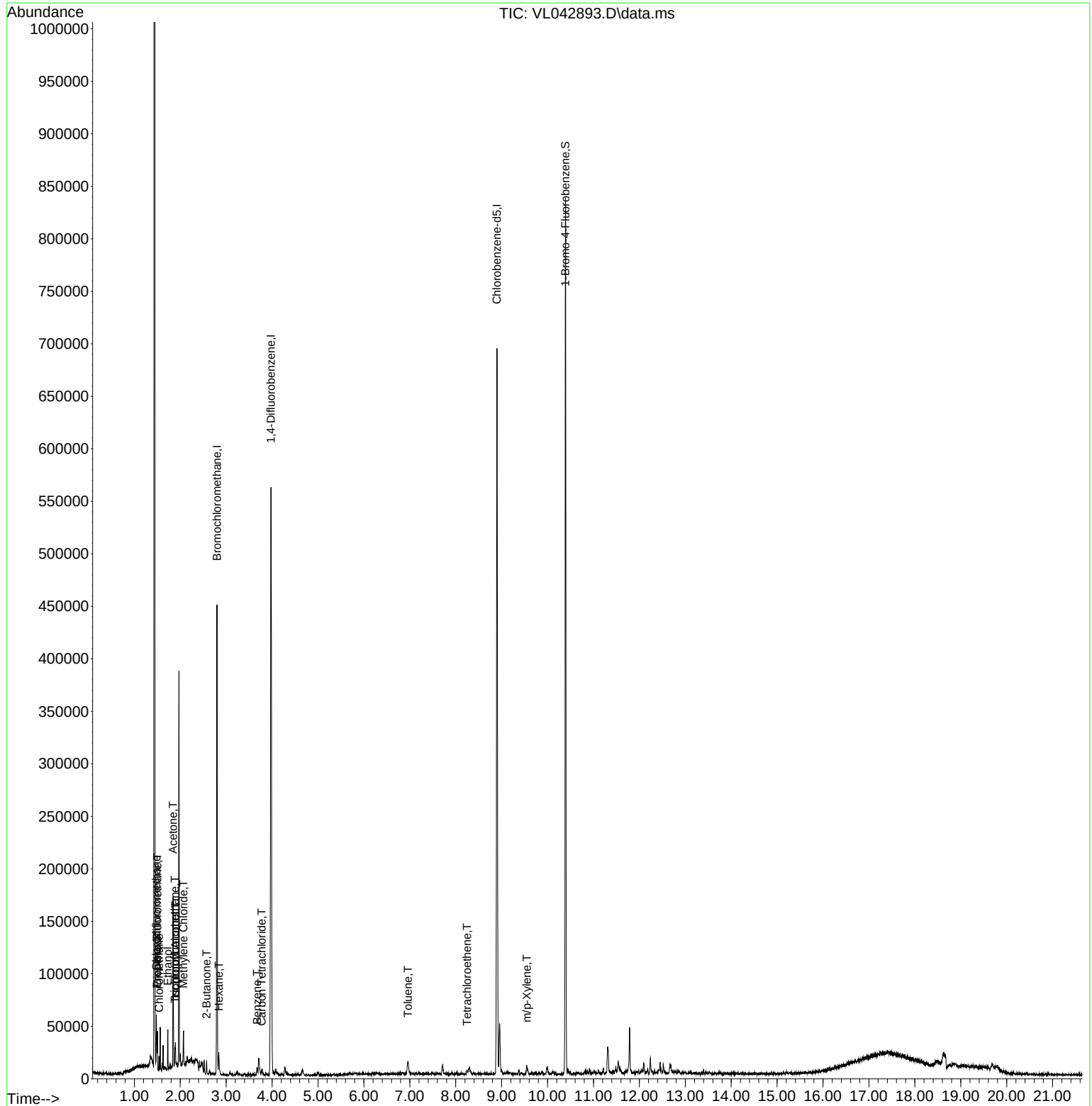
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
Data File : VL042893.D
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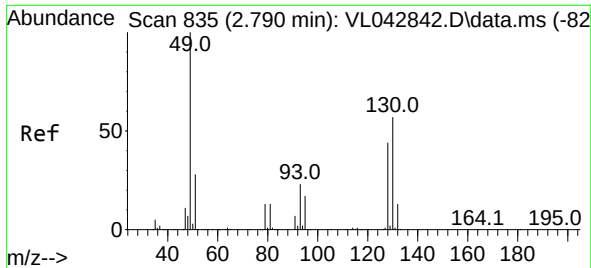
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Sep 05 01:23:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

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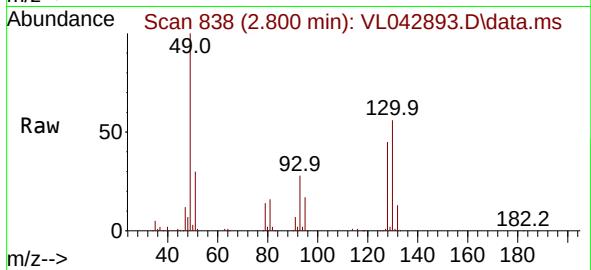
Reviewed By : Semsettin Yesilyurt 09/05/2025
Supervised By : Mahesh Dadoda 09/05/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

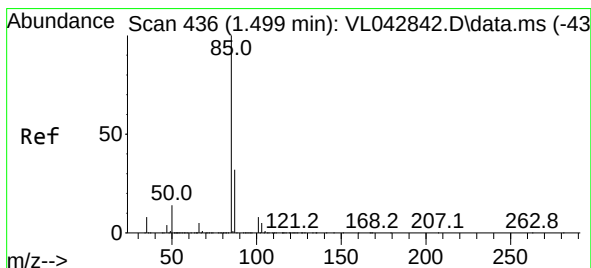
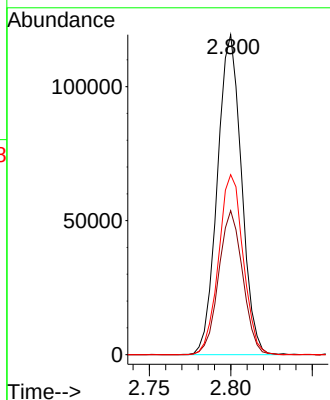
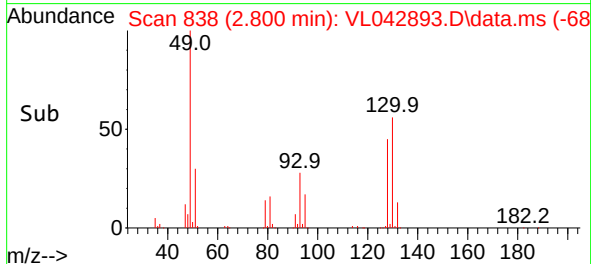
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 122660
Ion Ratio Lower Upper
49 100
128 44.9 23.7 71.1
130 57.4 30.6 91.6

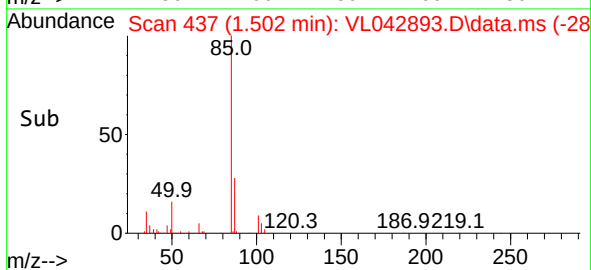
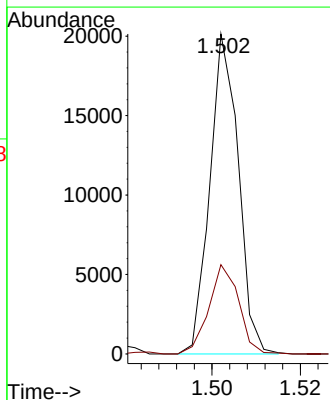
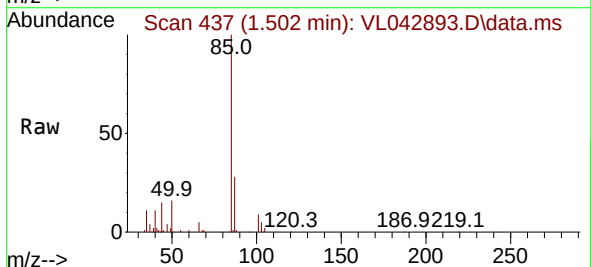
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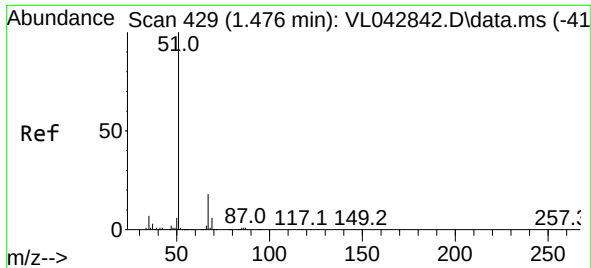
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#2
Dichlorodifluoromethane
Concen: 0.502 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

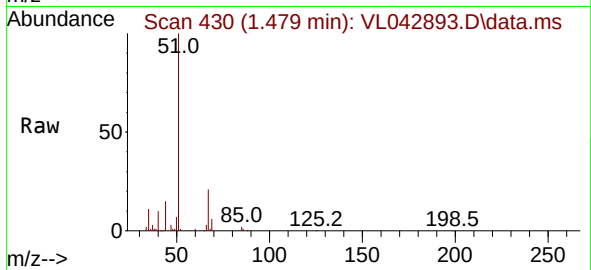
Tgt Ion: 85 Resp: 9023
Ion Ratio Lower Upper
85 100
87 27.9 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.908 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

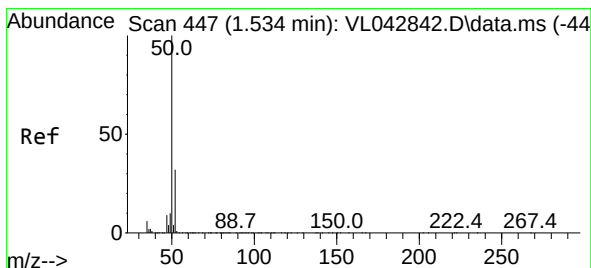
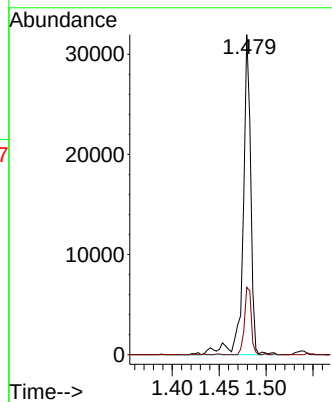
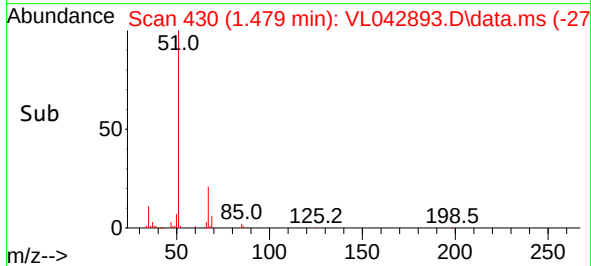
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 51 Resp: 18038
Ion Ratio Lower Upper
51 100
67 19.0 14.9 22.3

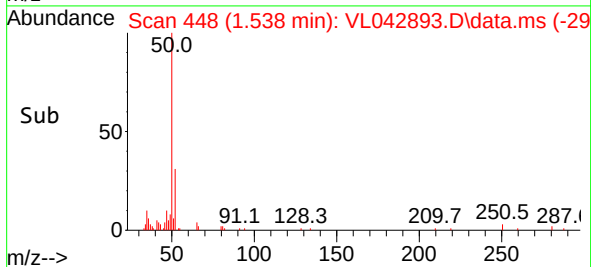
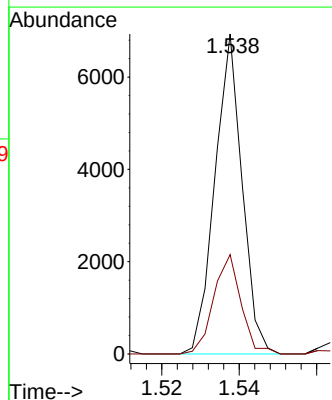
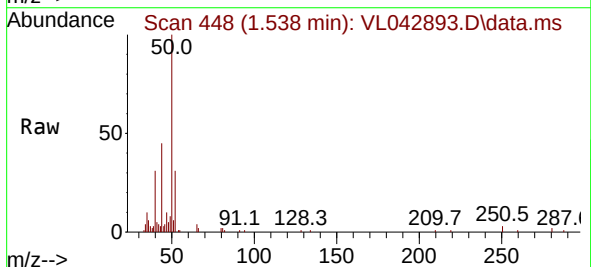
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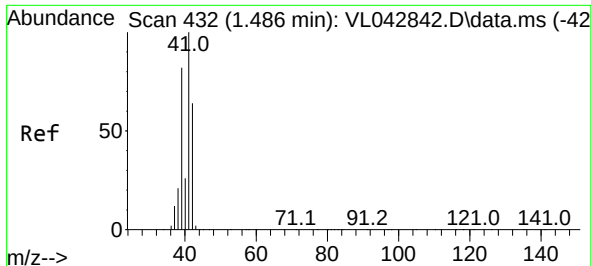
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#4
Chloromethane
Concen: 0.467 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Tgt Ion: 50 Resp: 3386
Ion Ratio Lower Upper
50 100
52 31.0 25.9 38.9





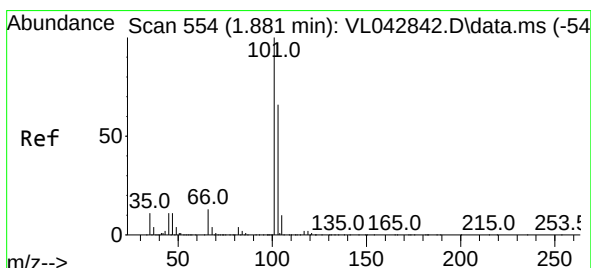
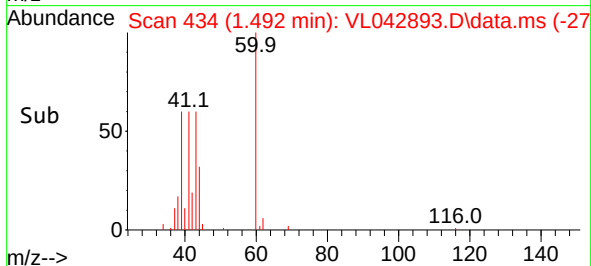
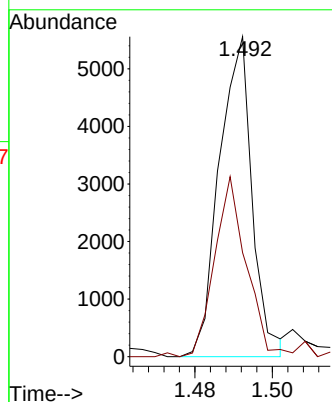
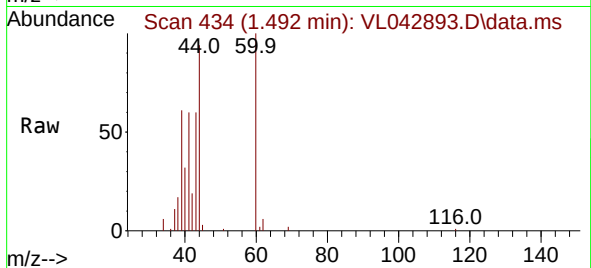
#9
Propene
Concen: 0.381 ppbv
RT: 1.492 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 41 Resp: 3270
Ion Ratio Lower Upper
41 100
42 0.0 53.0 79.4

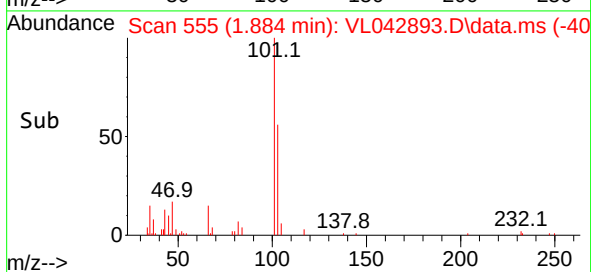
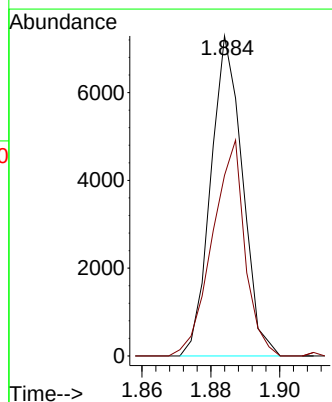
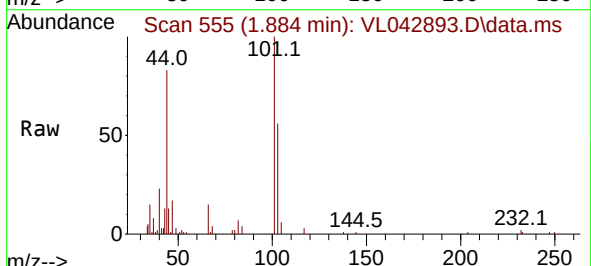
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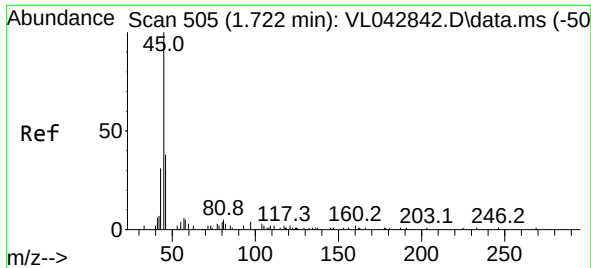
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#11
Trichlorofluoromethane
Concen: 0.263 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Tgt Ion:101 Resp: 4658
Ion Ratio Lower Upper
101 100
103 56.4 52.5 78.7





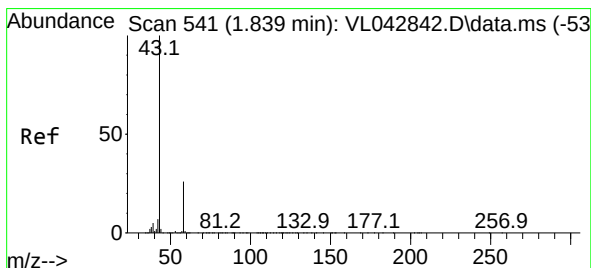
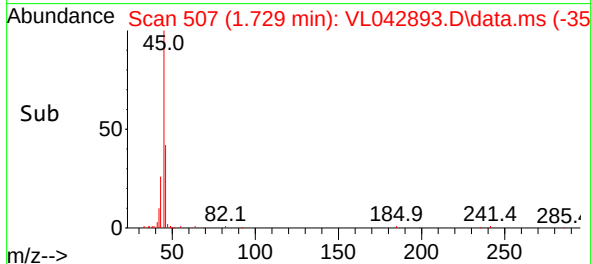
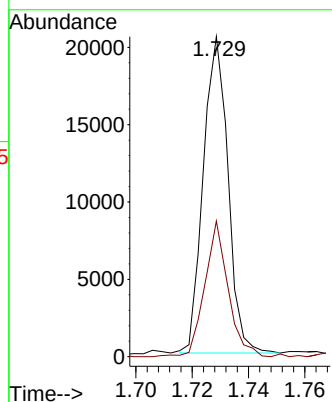
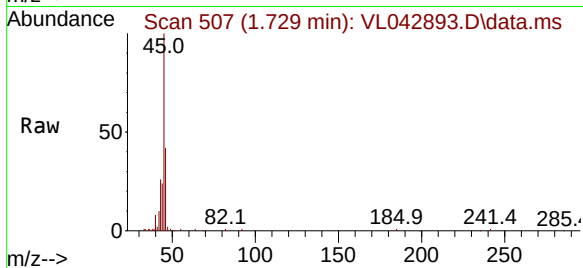
#13
Ethanol
Concen: 15.860 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 45 Resp: 12449
Ion Ratio Lower Upper
45 100
46 41.0 17.5 69.9

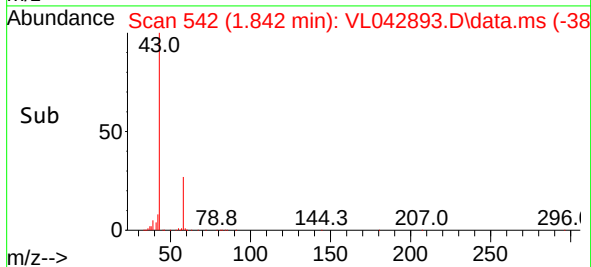
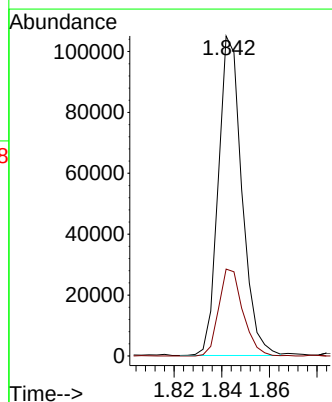
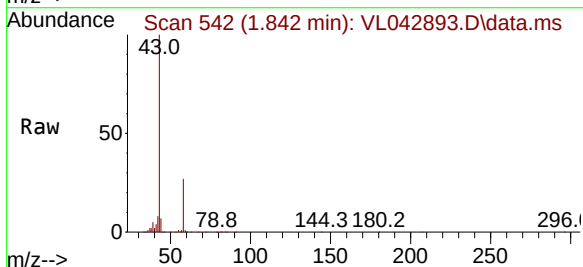
Manual Integrations
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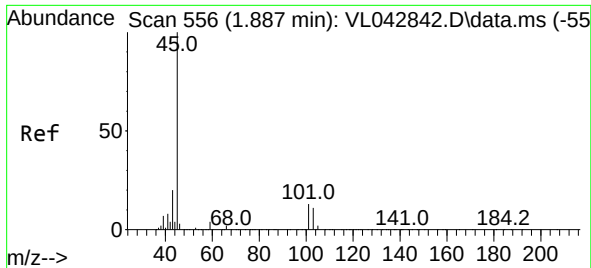
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#15
Acetone
Concen: 4.449 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Tgt Ion: 43 Resp: 72197
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6





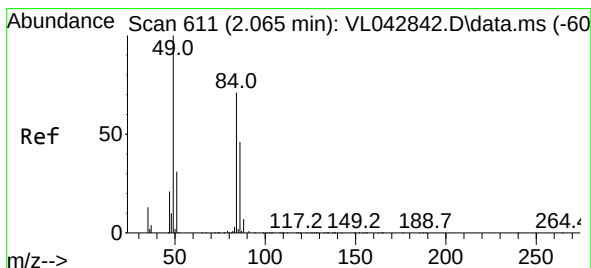
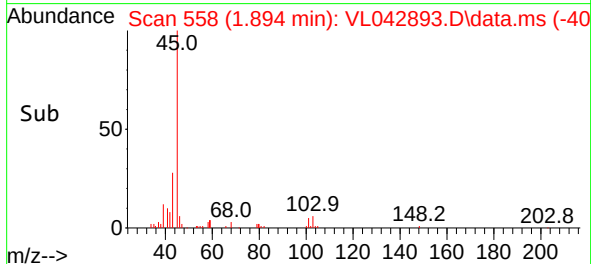
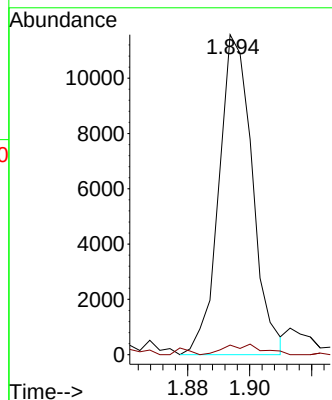
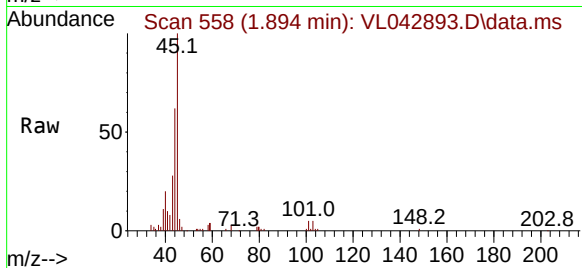
#19
Isopropyl Alcohol
Concen: 0.895 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.006 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 45 Resp: 8670
Ion Ratio Lower Upper
45 100
58 232.0 32.7 49.1

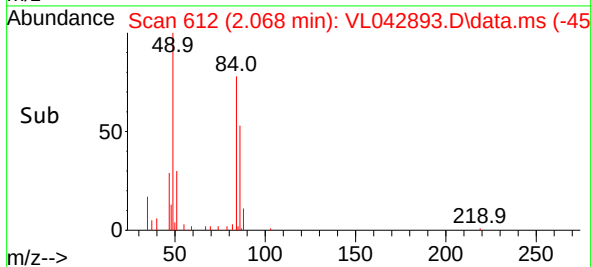
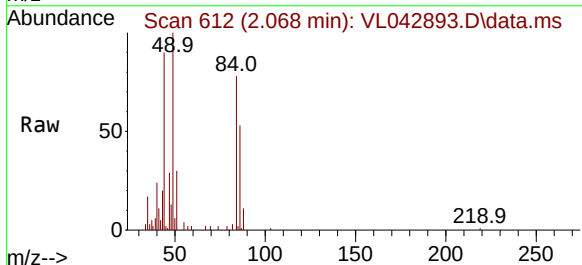
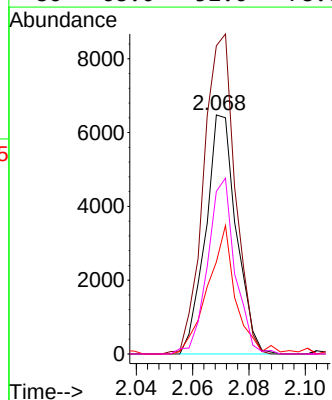
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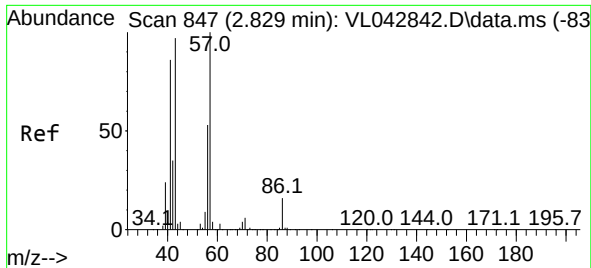
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#20
Methylene Chloride
Concen: 0.723 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

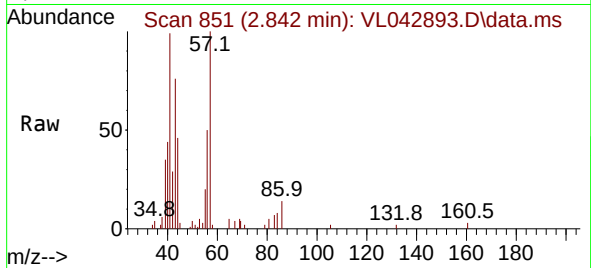
Tgt Ion: 84 Resp: 4915
Ion Ratio Lower Upper
84 100
49 129.0 112.3 168.5
51 37.6 36.0 54.0
86 68.0 52.0 78.0





#26
Hexane
Concen: 0.240 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

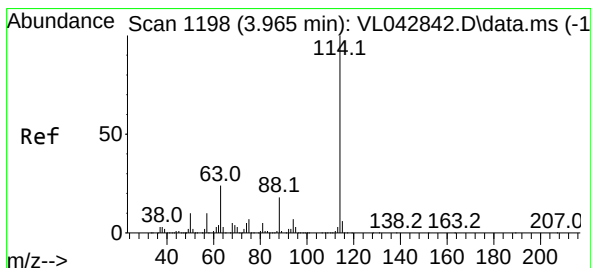
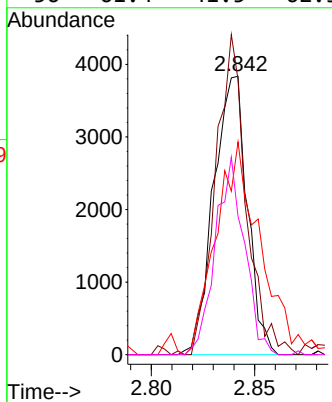
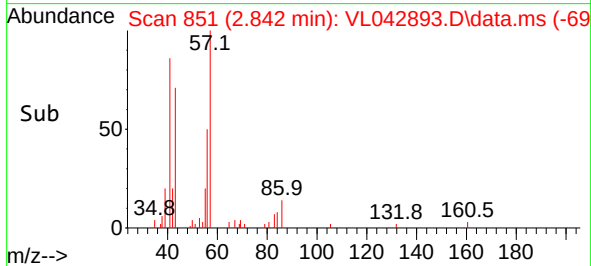
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



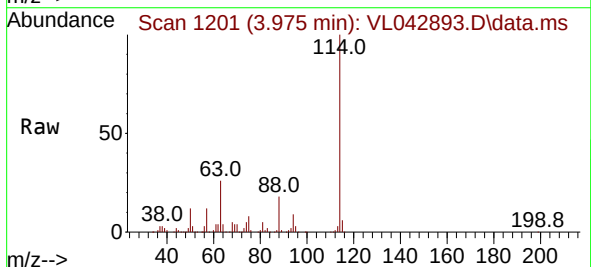
Tgt Ion: 57 Resp: 4354
Ion Ratio Lower Upper
57 100
41 105.4 68.6 103.0
43 104.7 168.5 252.7
56 61.4 41.5 62.3

Manual Integrations
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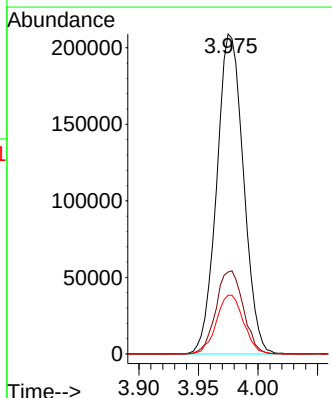
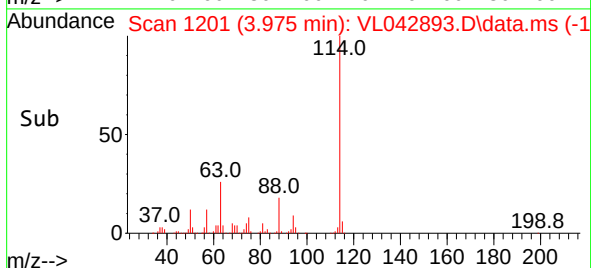
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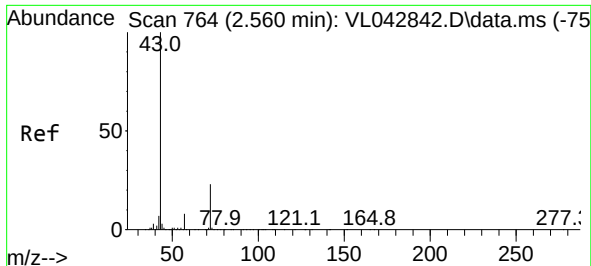


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.010 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53



Tgt Ion:114 Resp: 326405
Ion Ratio Lower Upper
114 100
63 26.6 19.7 29.5
88 18.6 14.4 21.6





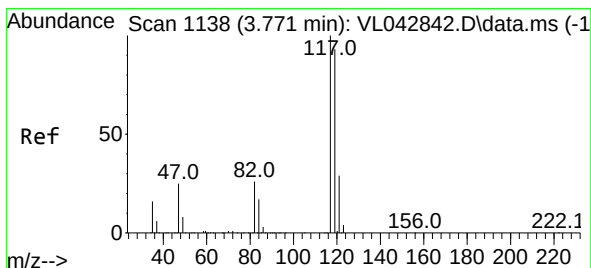
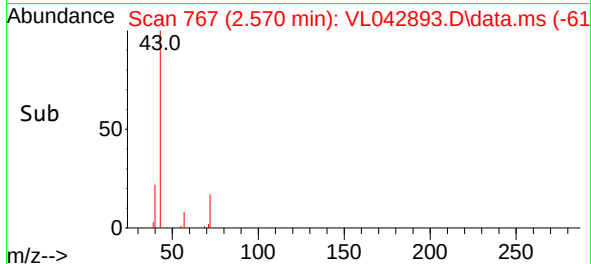
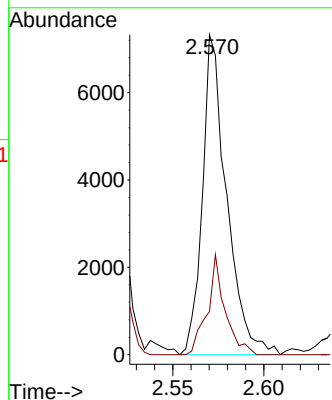
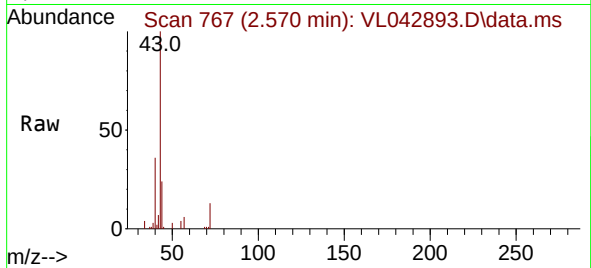
#34
2-Butanone
Concen: 0.308 ppbv
RT: 2.570 min Scan# 764
Delta R.T. 0.010 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 6784
Ion Ratio Lower Upper
43 100
72 22.8 18.6 28.0

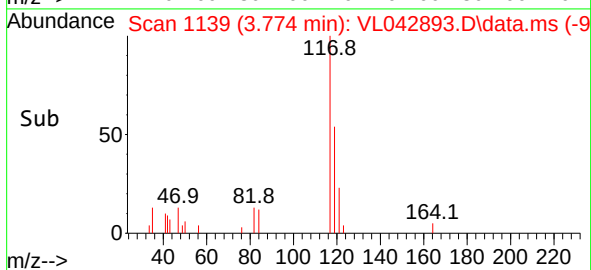
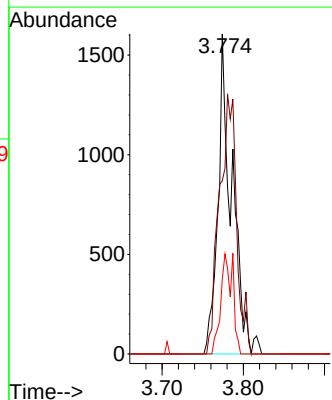
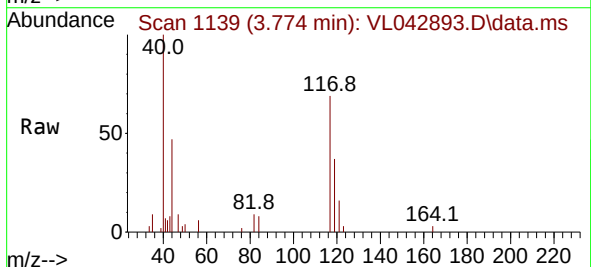
Manual Integrations
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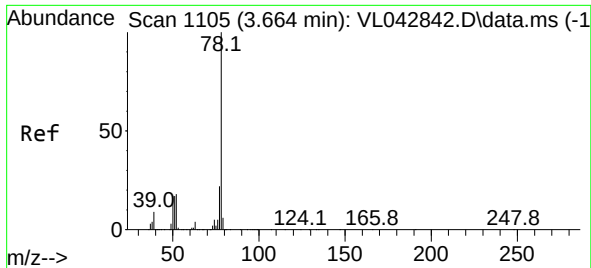
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#35
Carbon Tetrachloride
Concen: 0.086 ppbv m
RT: 3.774 min Scan# 1139
Delta R.T. 0.003 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Tgt Ion:117 Resp: 1927
Ion Ratio Lower Upper
117 100
119 54.1 74.7 112.1#
121 23.3 23.2 34.8





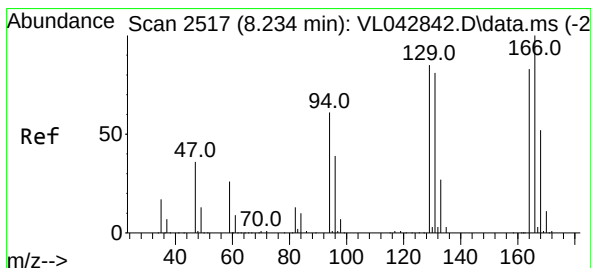
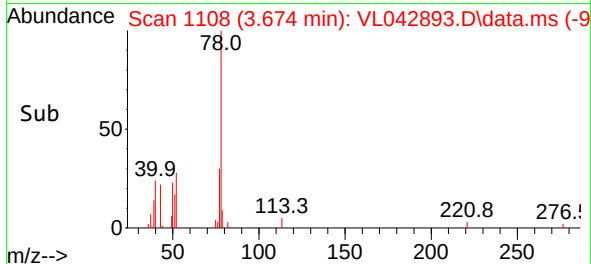
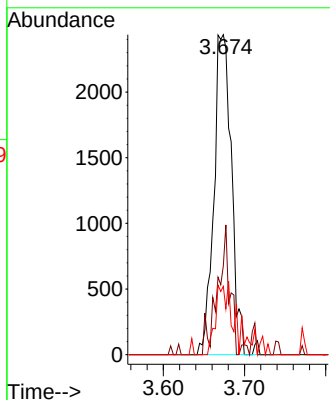
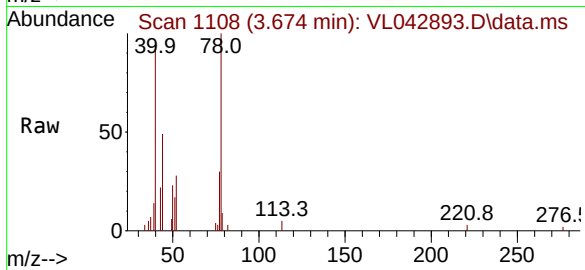
#36
Benzene
Concen: 0.118 ppbv m
RT: 3.674 min Scan# 1108
Delta R.T. 0.010 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 78 Resp: 368
Ion Ratio Lower Upper
78 100
77 30.3 17.7 26.5
50 23.4 13.9 20.9

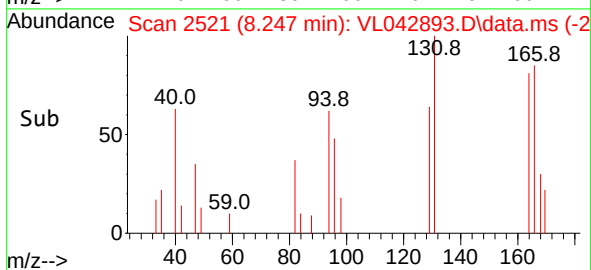
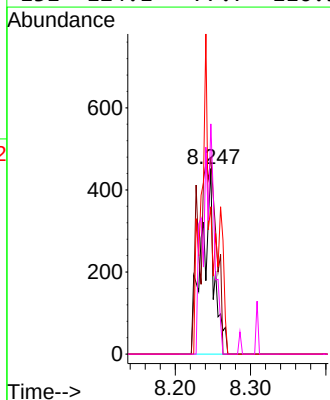
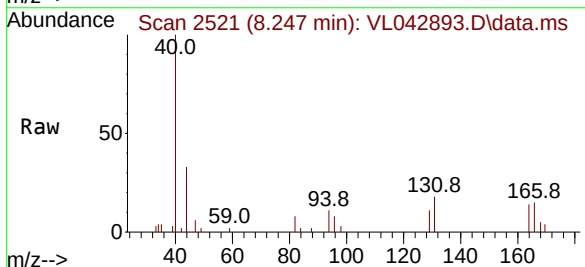
Manual Integrations
APPROVED

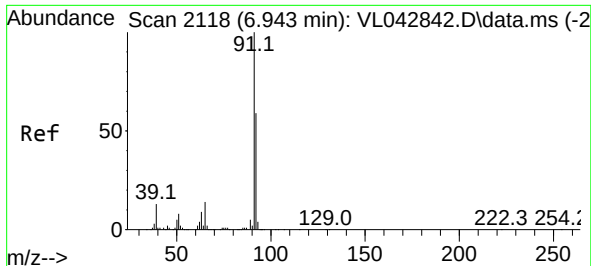
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#52
Tetrachloroethene
Concen: 0.047 ppbv m
RT: 8.247 min Scan# 2521
Delta R.T. 0.013 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Tgt Ion:164 Resp: 529
Ion Ratio Lower Upper
164 100
166 106.0 96.5 144.7
129 79.4 81.8 122.6#
131 124.1 77.7 116.5#





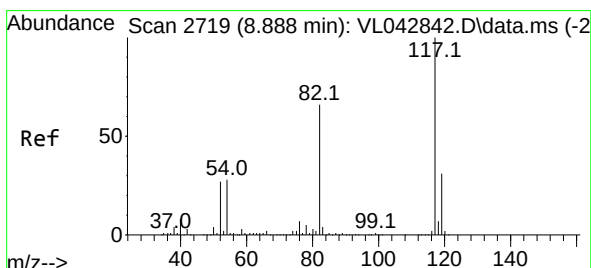
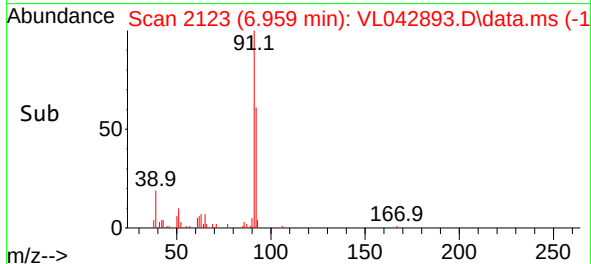
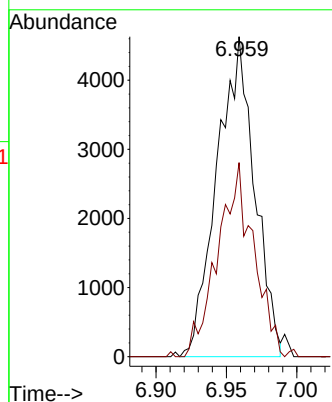
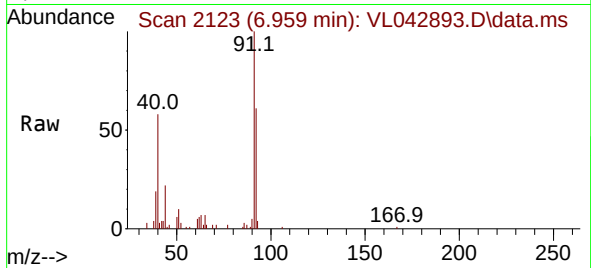
#53
Toluene
Concen: 0.232 ppbv
RT: 6.959 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 8604
Ion Ratio Lower Upper
91 100
92 58.1 47.8 71.6

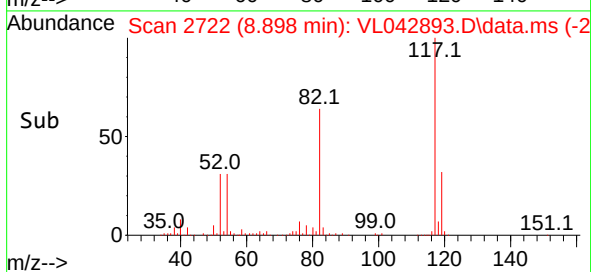
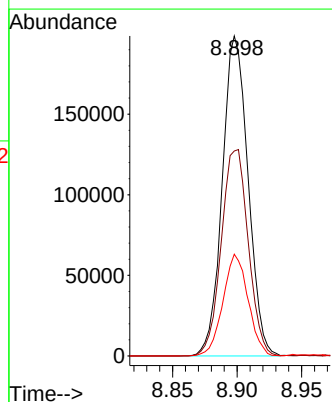
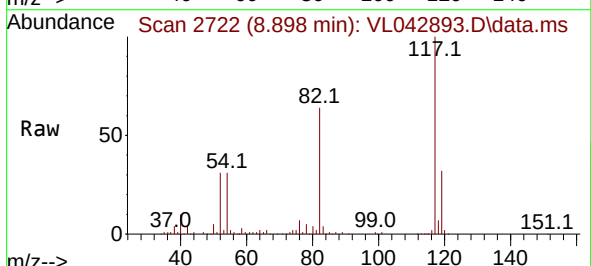
Manual Integrations
APPROVED

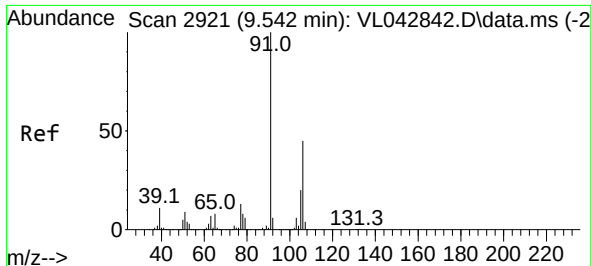
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042893.D
Acq: 04 Sep 2025 16:53

Tgt Ion:117 Resp: 275541
Ion Ratio Lower Upper
117 100
82 67.6 54.6 81.8
119 31.0 25.9 38.9





#59

m/p-Xylene

Concen: 0.140 ppbv m

RT: 9.548 min Scan# 2921

Delta R.T. 0.006 min

Lab File: VL042893.D

Acq: 04 Sep 2025 16:53

Instrument :

MSVOA_L

ClientSampleId :

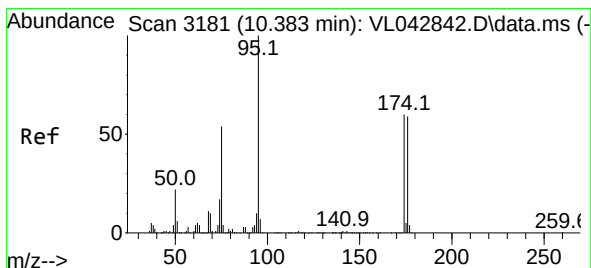
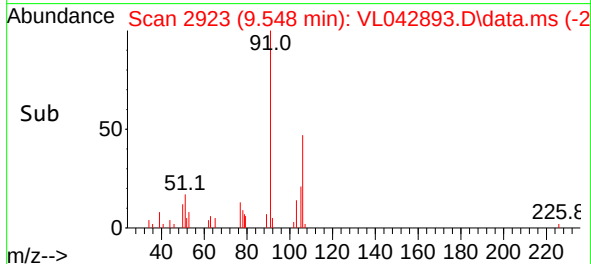
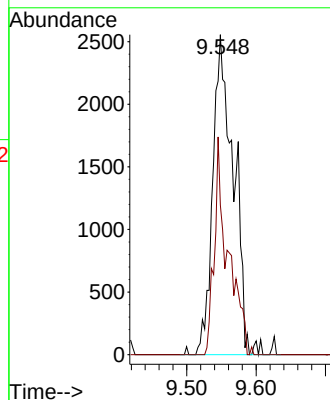
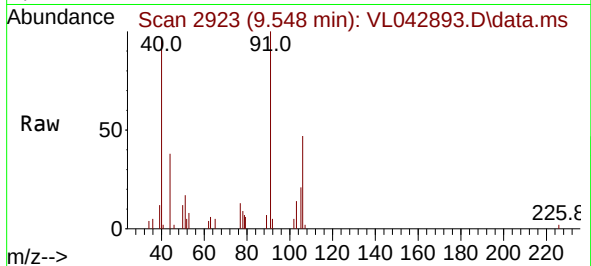
IA1DUP

Tgt Ion: 91 Resp: 533
 Ion Ratio Lower Upper
 91 100
 106 44.9 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.251 ppbv

RT: 10.390 min Scan# 3183

Delta R.T. 0.006 min

Lab File: VL042893.D

Acq: 04 Sep 2025 16:53

Tgt Ion: 95 Resp: 211831
 Ion Ratio Lower Upper
 95 100
 174 55.5 48.4 72.6
 175 4.1 3.8 5.8

