

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
 Data File : VL042304.D
 Acq On : 10 Apr 2025 12:30
 Operator : SY/MD
 Sample : Q1772-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/11/2025
 Supervised By : Mahesh Dadoda 04/11/2025

Quant Time: Apr 11 01:57:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	190869	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	468438	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	410794	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	311735	9.241	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	11229	0.398	ppbv	92
3) Chlorodifluoromethane	1.476	51	13199m	0.458	ppbv	
4) Chloromethane	1.531	50	8836	0.767	ppbv	99
9) Propene	1.489	41	169820	12.869	ppbv #	62
11) Trichlorofluoromethane	1.878	101	7008	0.256	ppbv	92
13) Ethanol	1.732	45	3523206	2824.355	ppbv	82
15) Acetone	1.836	43	200174	7.499	ppbv	98
19) Isopropyl Alcohol	1.891	45	75444	5.009	ppbv #	49
20) Methylene Chloride	2.062	84	4808	0.484	ppbv	89
25) Ethyl Acetate	2.836	43	92780	1.339	ppbv #	94
29) Chloroform	2.849	83	17808	0.455	ppbv	93
34) 2-Butanone	2.561	43	25992	0.765	ppbv	94
35) Carbon Tetrachloride	3.758	117	3004m	0.082	ppbv	
36) Benzene	3.658	78	13836	0.298	ppbv #	93
53) Toluene	6.927	91	13018m	0.236	ppbv	
59) m/p-Xylene	9.532	91	5994m	0.103	ppbv	
76) 1,4-Dichlorobenzene	11.672	146	7913	0.198	ppbv	98

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

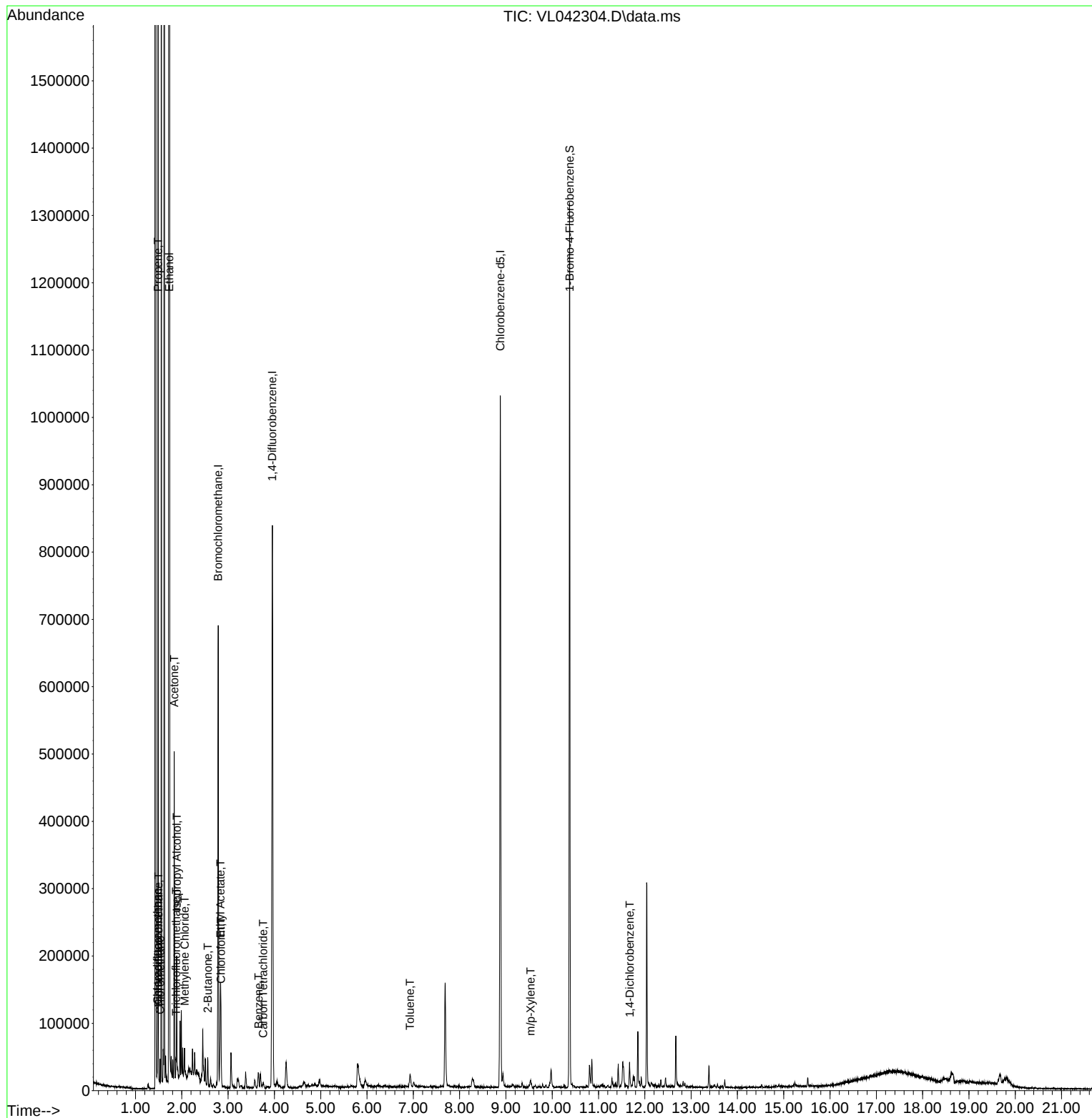
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041025\
Data File : VL042304.D
Acq On : 10 Apr 2025 12:30
Operator : SY/MD
Sample : Q1772-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

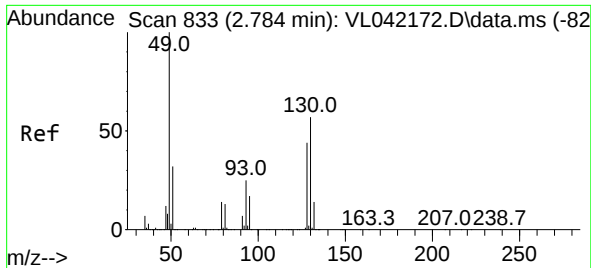
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Apr 11 01:57:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

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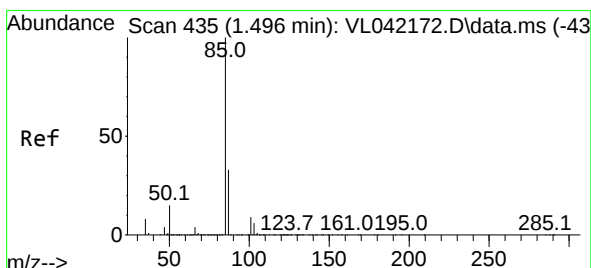
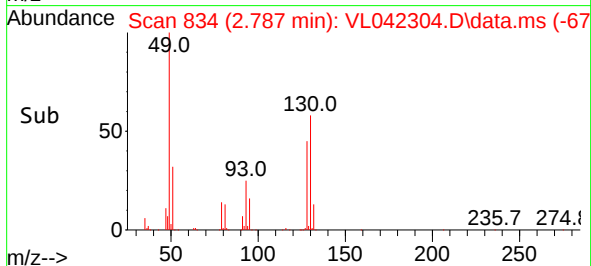
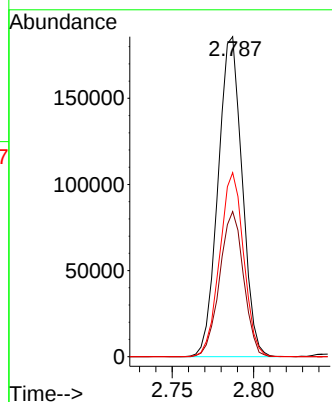
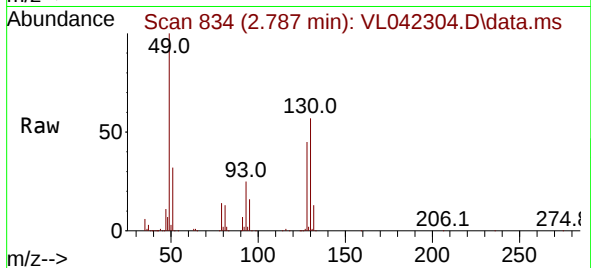
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042304.D
 Acq: 10 Apr 2025 12:30

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tgt Ion: 49 Resp: 190869
 Ion Ratio Lower Upper
 49 100
 128 44.9 22.9 68.5
 130 57.2 28.8 86.4

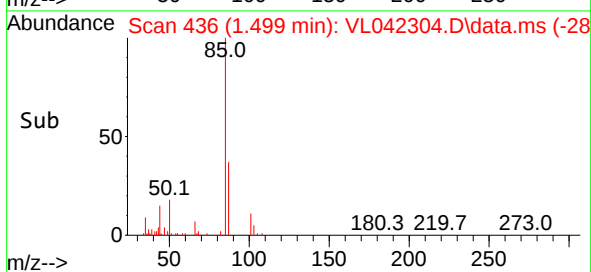
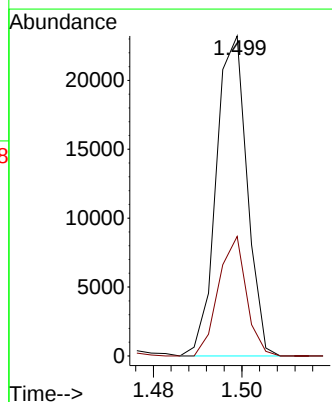
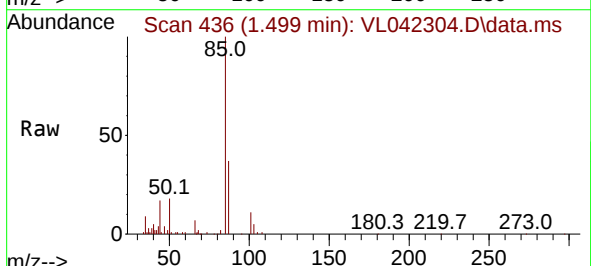
Manual Integrations
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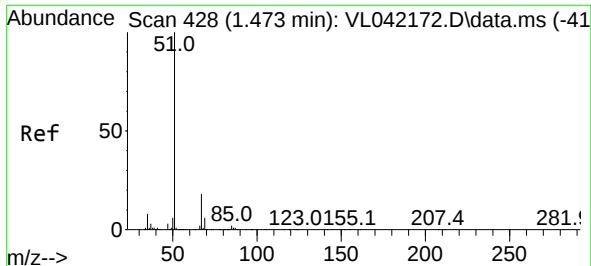
Reviewed By :Semsettin Yesilyurt 04/11/2025
 Supervised By :Mahesh Dadoda 04/11/2025



#2
 Dichlorodifluoromethane
 Concen: 0.398 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042304.D
 Acq: 10 Apr 2025 12:30

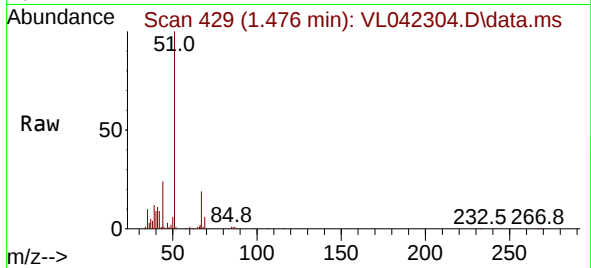
Tgt Ion: 85 Resp: 11229
 Ion Ratio Lower Upper
 85 100
 87 37.3 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.458 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

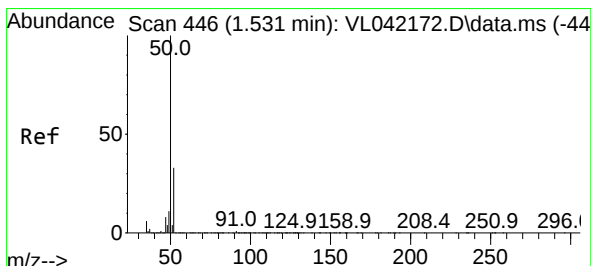
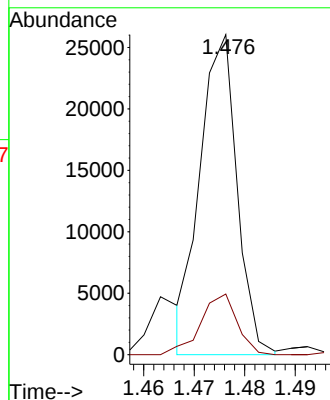
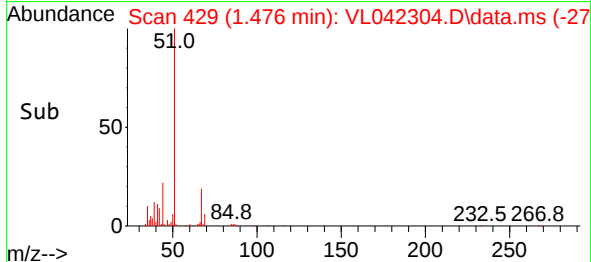
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 51 Resp: 13199
Ion Ratio Lower Upper
51 100
67 21.1 15.0 22.6

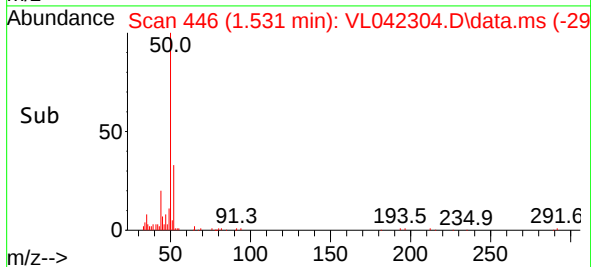
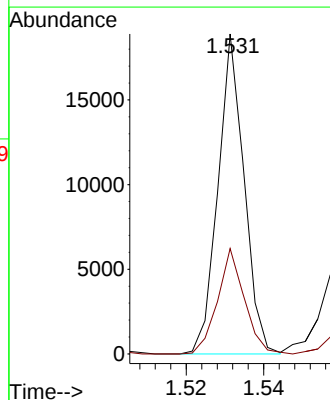
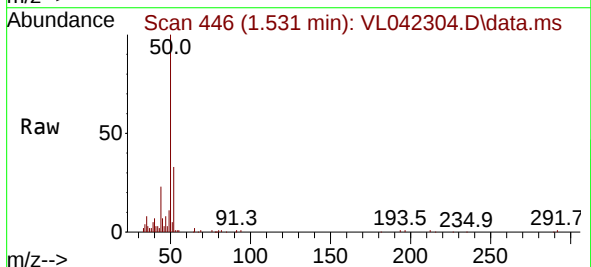
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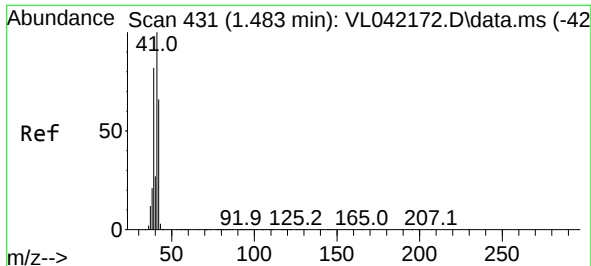
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025



#4
Chloromethane
Concen: 0.767 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

Tgt Ion: 50 Resp: 8836
Ion Ratio Lower Upper
50 100
52 33.1 26.1 39.1





#9

Propene

Concen: 12.869 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042304.D

Acq: 10 Apr 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 169820

Ion Ratio Lower Upper

41 100

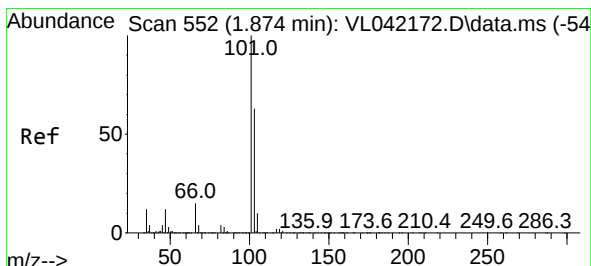
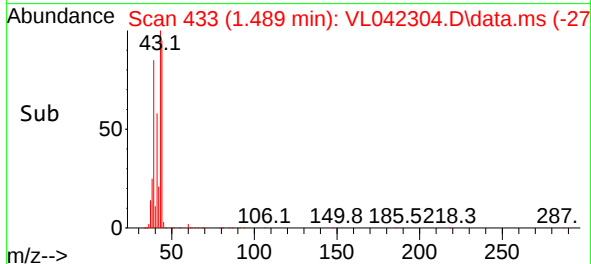
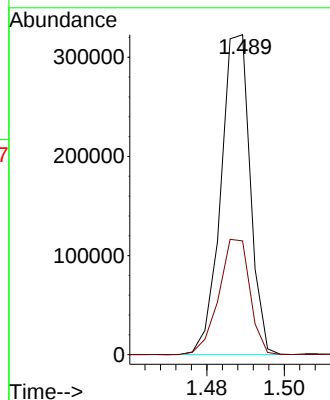
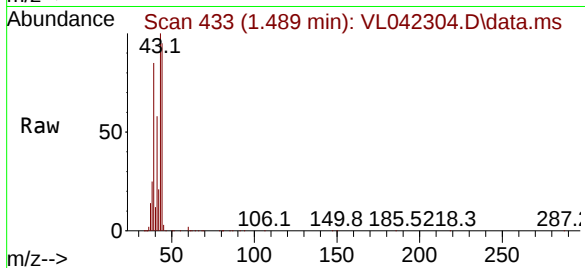
42 38.6 55.4 83.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/11/2025

Supervised By :Mahesh Dadoda 04/11/2025



#11

Trichlorofluoromethane

Concen: 0.256 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042304.D

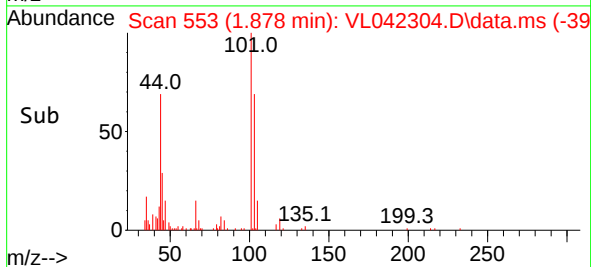
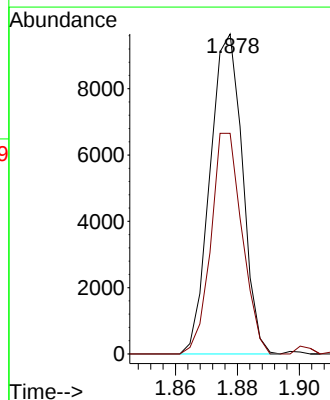
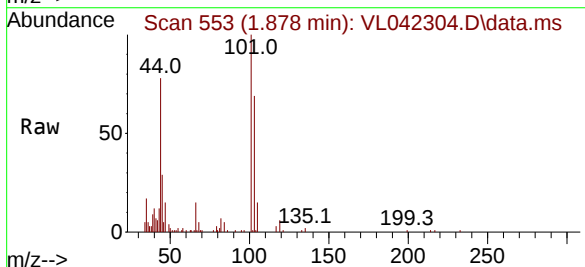
Acq: 10 Apr 2025 12:30

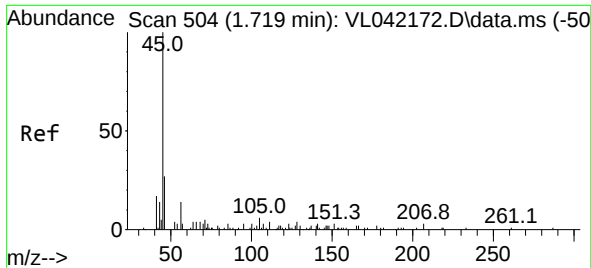
Tgt Ion:101 Resp: 7008

Ion Ratio Lower Upper

101 100

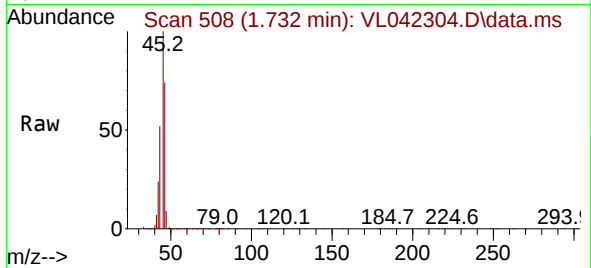
103 69.0 50.2 75.2





#13
 Ethanol
 Concen: 2824.355 ppbv
 RT: 1.732 min Scan# 50
 Delta R.T. 0.013 min
 Lab File: VL042304.D
 Acq: 10 Apr 2025 12:30

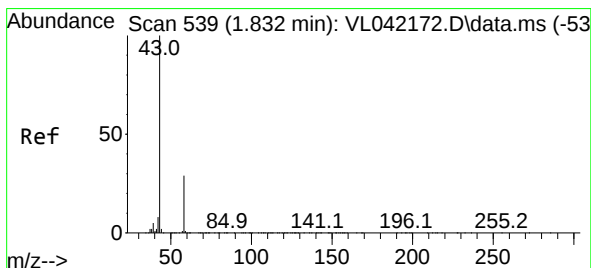
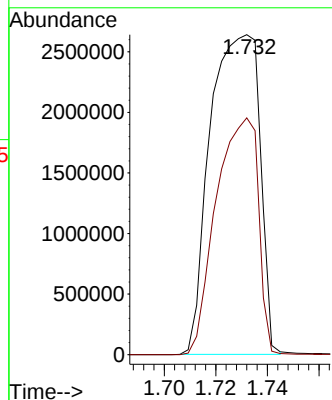
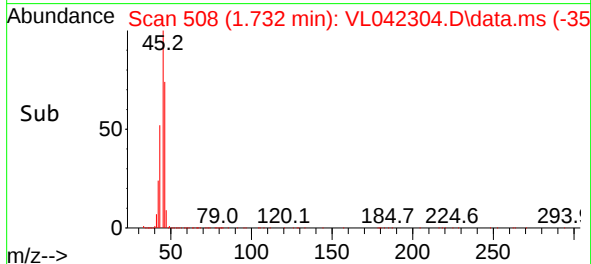
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion: 45 Resp: 3523200
 Ion Ratio Lower Upper
 45 100
 46 63.1 20.2 80.8

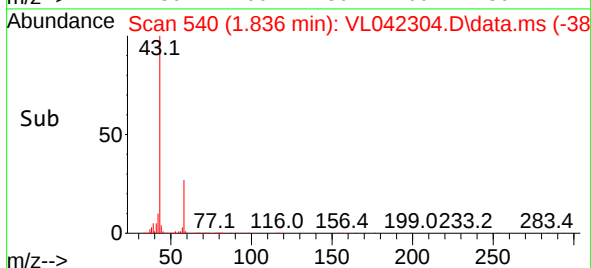
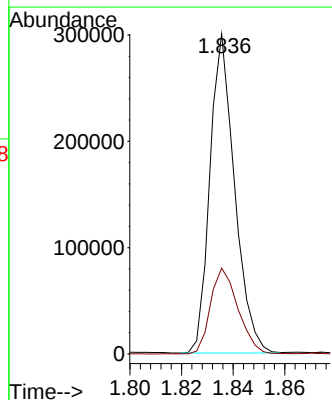
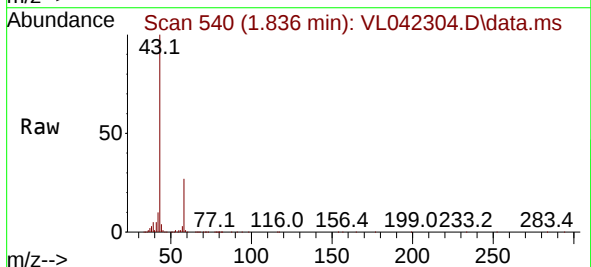
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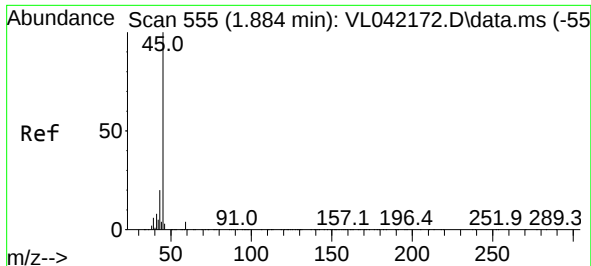
Reviewed By :Semsettin Yesilyurt 04/11/2025
 Supervised By :Mahesh Dadoda 04/11/2025



#15
 Acetone
 Concen: 7.499 ppbv
 RT: 1.836 min Scan# 540
 Delta R.T. 0.003 min
 Lab File: VL042304.D
 Acq: 10 Apr 2025 12:30

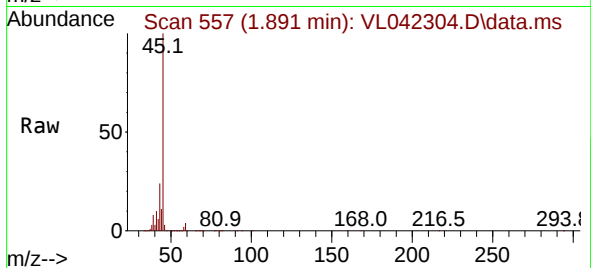
Tgt Ion: 43 Resp: 200174
 Ion Ratio Lower Upper
 43 100
 58 30.1 23.2 34.8





#19
Isopropyl Alcohol
Concen: 5.009 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

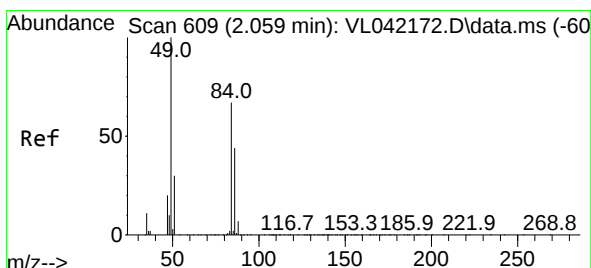
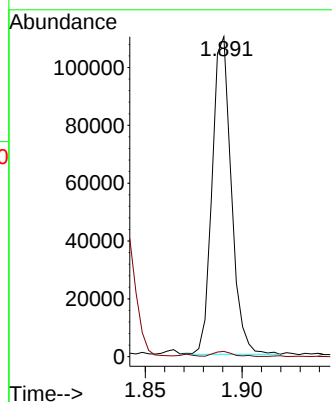
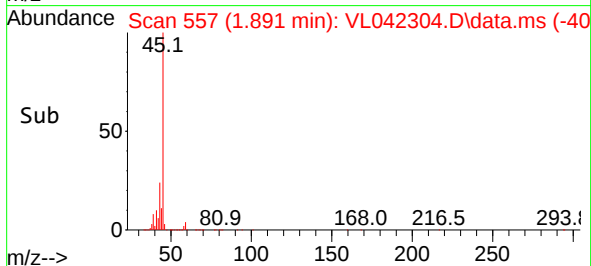
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp: 7544
Ion Ratio Lower Upper
45 100
58 80.0 36.9 55.3

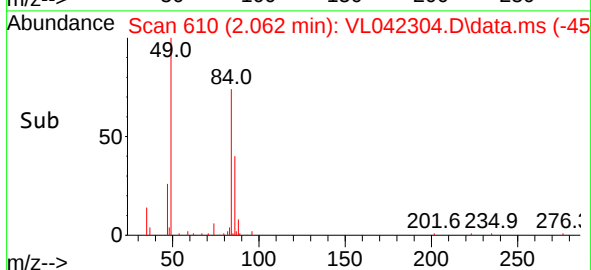
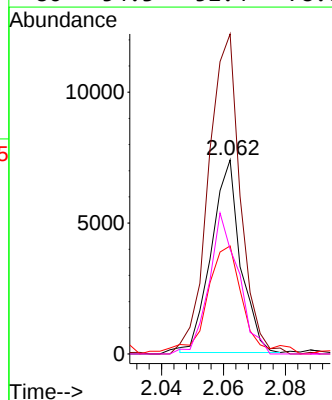
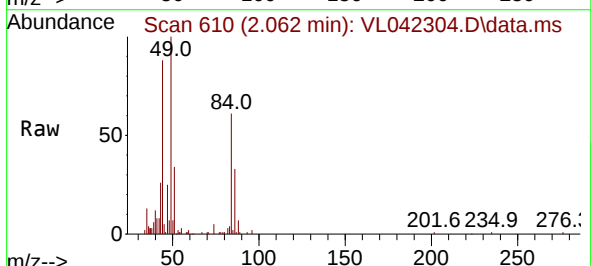
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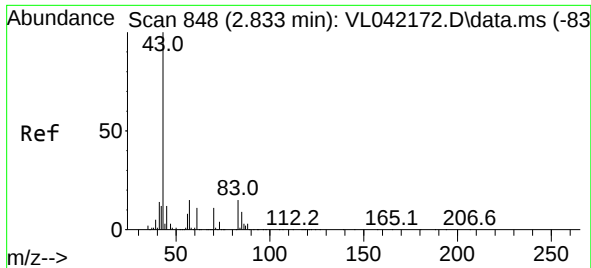
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025



#20
Methylene Chloride
Concen: 0.484 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

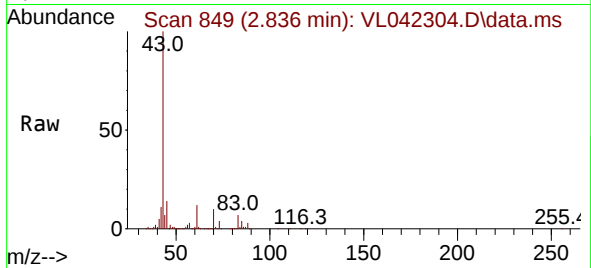
Tgt Ion: 84 Resp: 4808
Ion Ratio Lower Upper
84 100
49 162.9 120.2 180.4
51 51.7 37.4 56.0
86 54.3 52.4 78.6





#25
Ethyl Acetate
Concen: 1.339 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

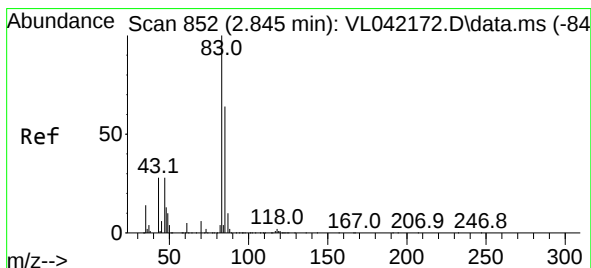
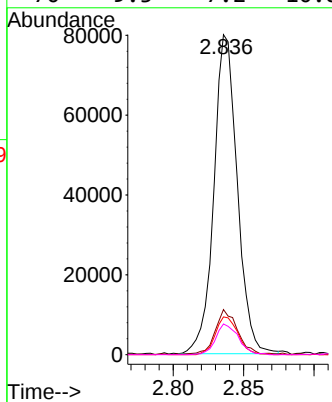
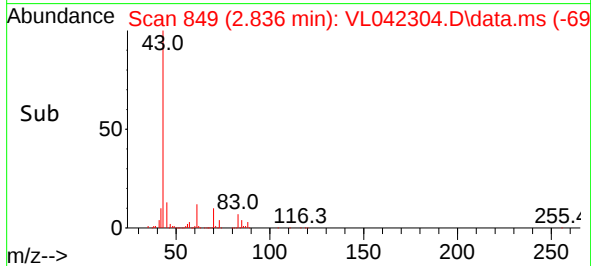
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 92780
Ion Ratio Lower Upper
43 100
45 14.3 8.2 12.2
61 11.5 7.3 10.9
70 9.3 7.2 10.8

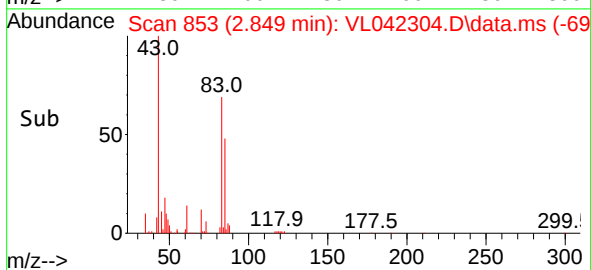
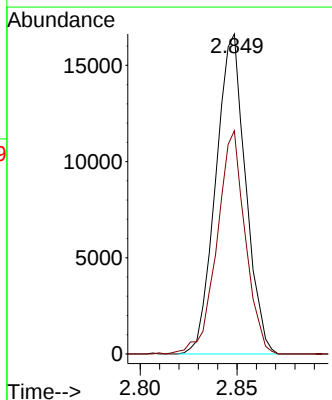
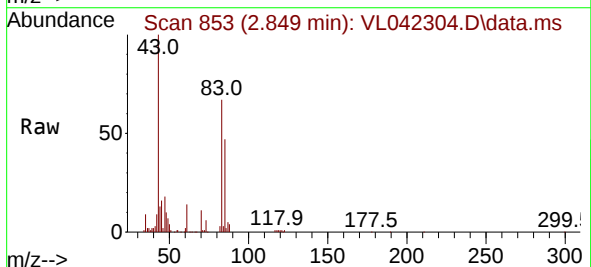
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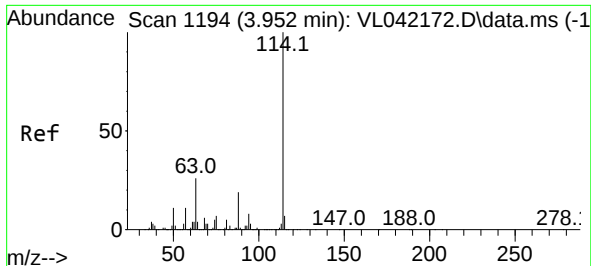
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025



#29
Chloroform
Concen: 0.455 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

Tgt Ion: 83 Resp: 17808
Ion Ratio Lower Upper
83 100
85 69.8 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042304.D

Acq: 10 Apr 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:114 Resp: 468438

Ion Ratio Lower Upper

114 100

63 25.9 20.7 31.1

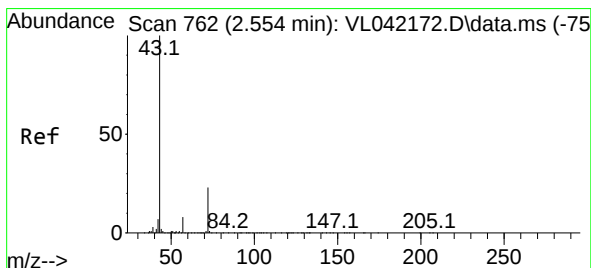
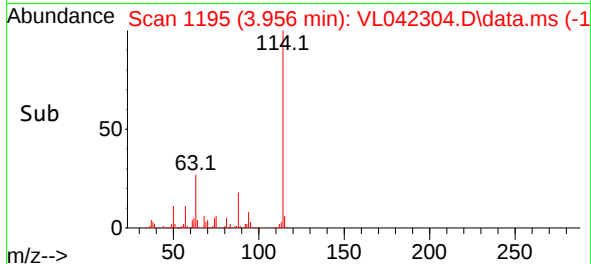
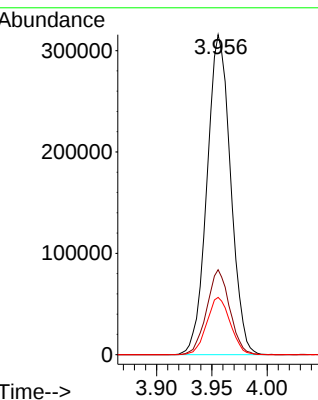
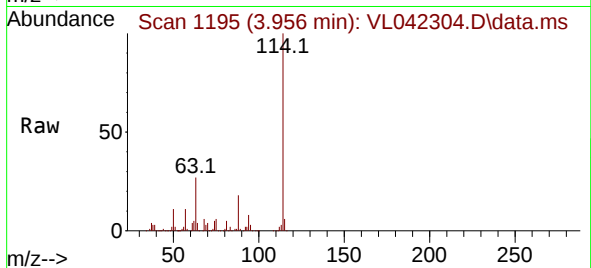
88 17.9 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/11/2025

Supervised By :Mahesh Dadoda 04/11/2025



#34

2-Butanone

Concen: 0.765 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL042304.D

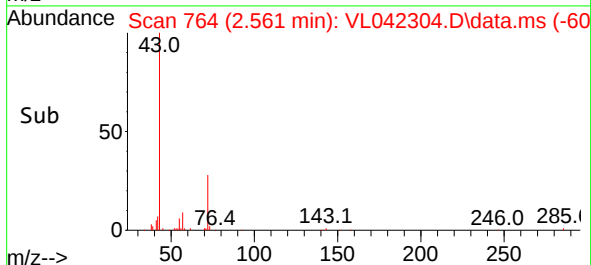
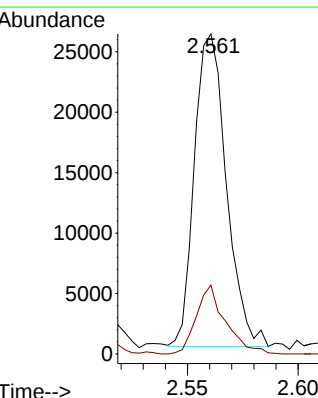
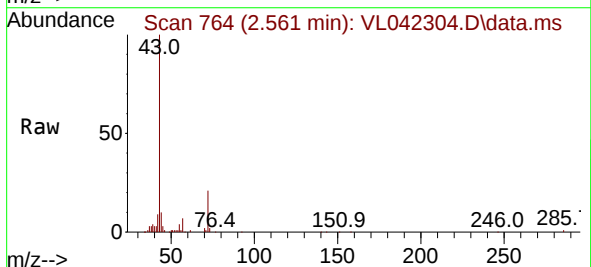
Acq: 10 Apr 2025 12:30

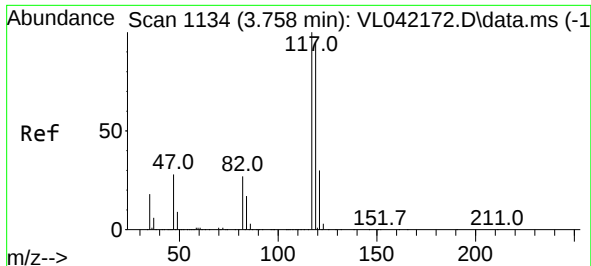
Tgt Ion: 43 Resp: 25992

Ion Ratio Lower Upper

43 100

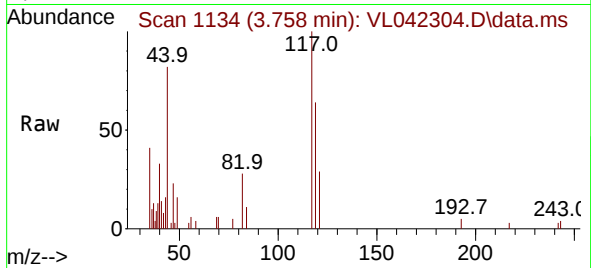
72 20.0 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

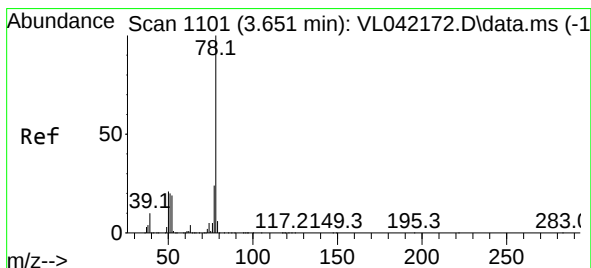
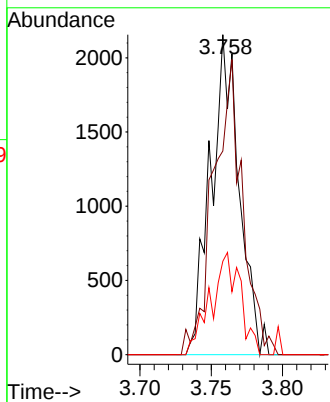
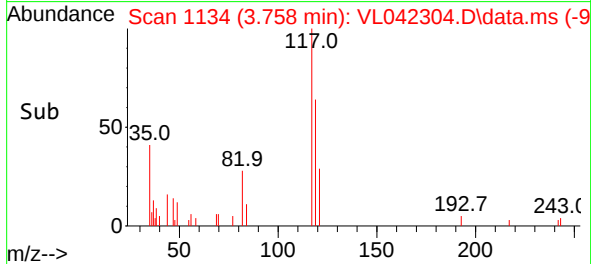
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



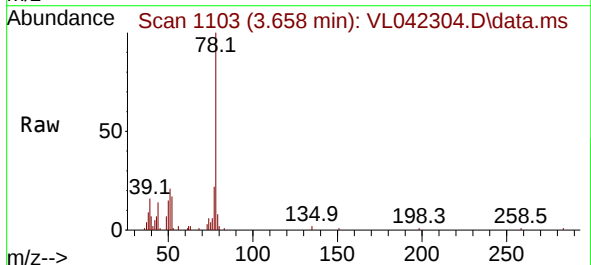
Tgt Ion: 117 Resp: 3004
Ion Ratio Lower Upper
117 100
119 63.6 76.2 114.2
121 29.2 24.2 36.4

Manual Integrations
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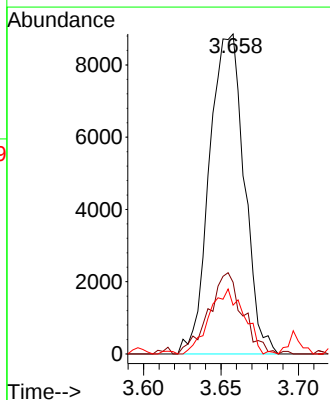
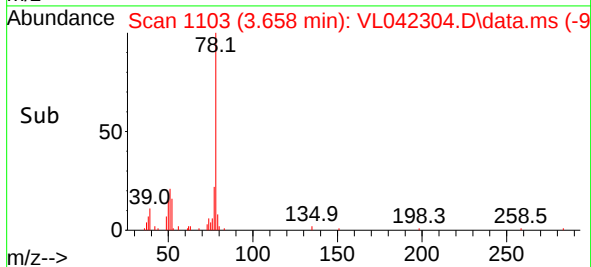
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025

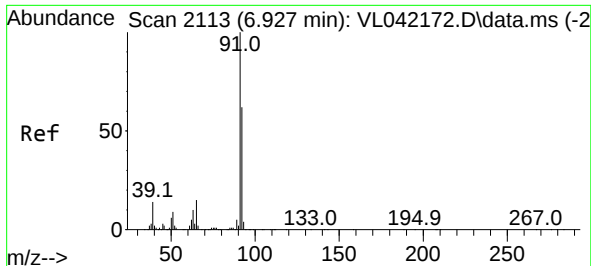


#36
Benzene
Concen: 0.298 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30



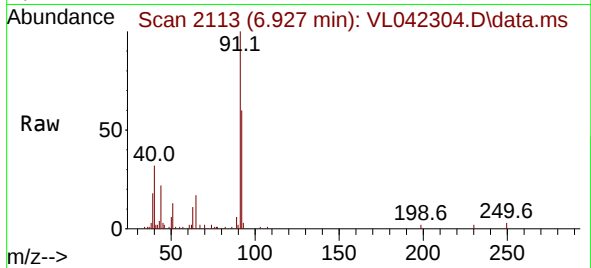
Tgt Ion: 78 Resp: 13836
Ion Ratio Lower Upper
78 100
77 22.6 19.1 28.7
50 15.4 16.6 24.8





#53
Toluene
Concen: 0.236 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

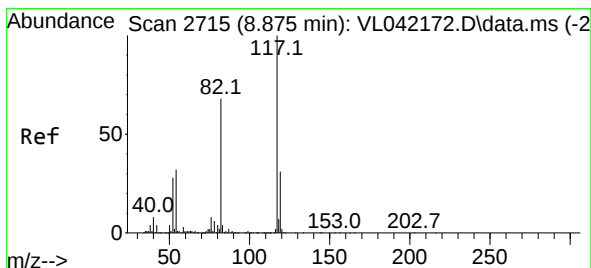
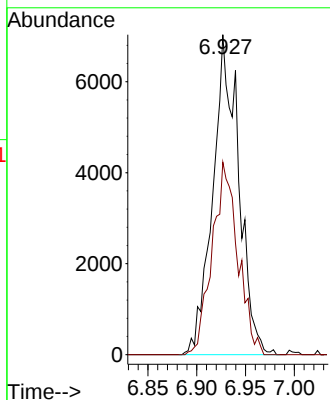
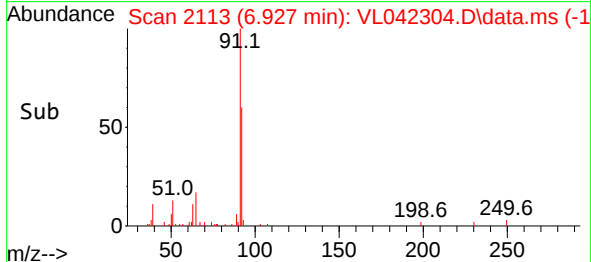
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



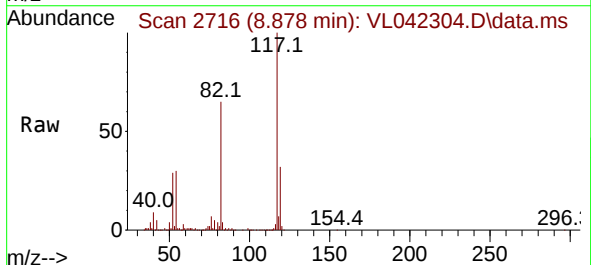
Tgt Ion: 91 Resp: 13018
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6

Manual Integrations
APPROVED

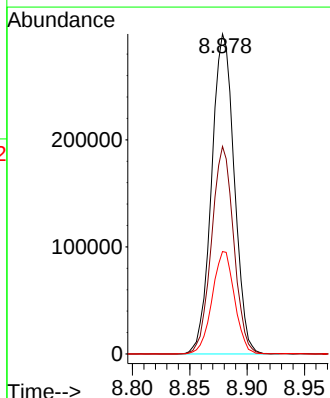
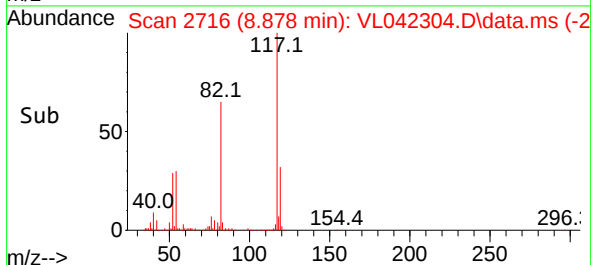
Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025

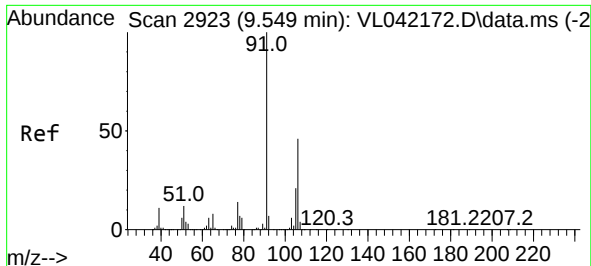


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30



Tgt Ion:117 Resp: 410794
Ion Ratio Lower Upper
117 100
82 63.6 55.8 83.6
119 31.8 25.5 38.3





#59

m/p-Xylene

Concen: 0.103 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.016 min

Lab File: VL042304.D

Acq: 10 Apr 2025 12:30

Instrument :

MSVOA_L

ClientSampleId :

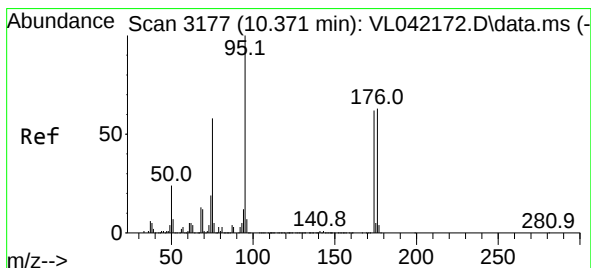
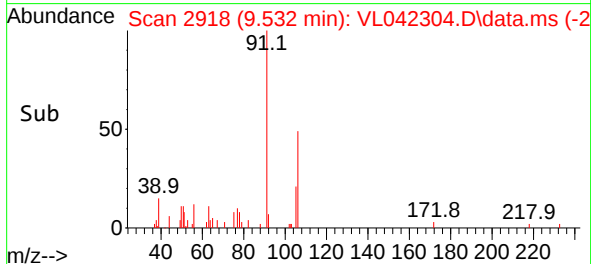
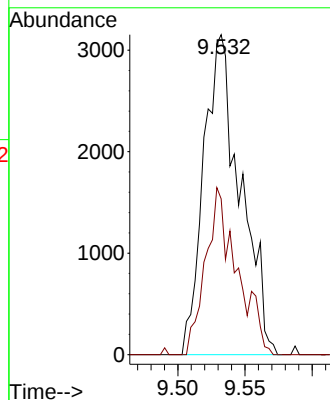
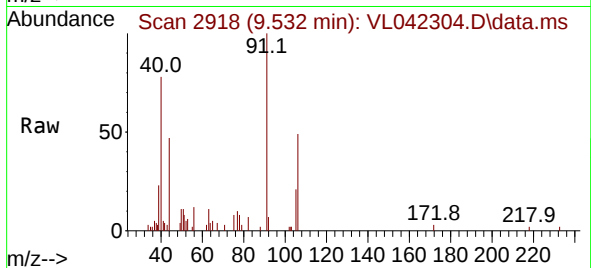
IA1DUP

Tgt Ion: 91 Resp: 5994
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/11/2025
 Supervised By :Mahesh Dadoda 04/11/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.241 ppbv

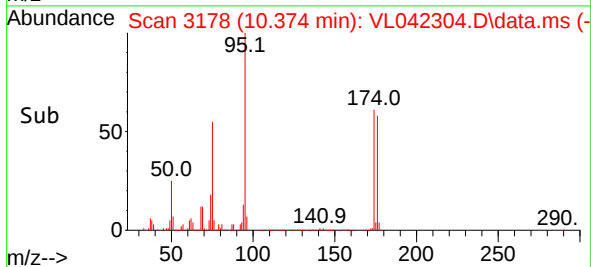
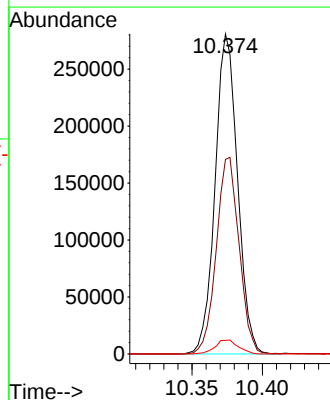
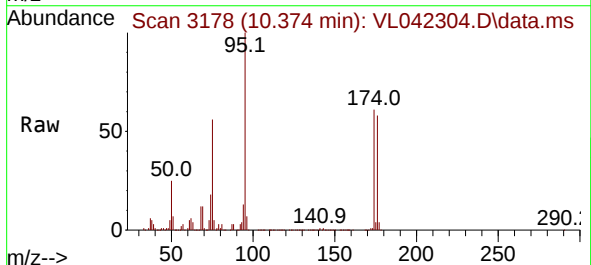
RT: 10.374 min Scan# 3178

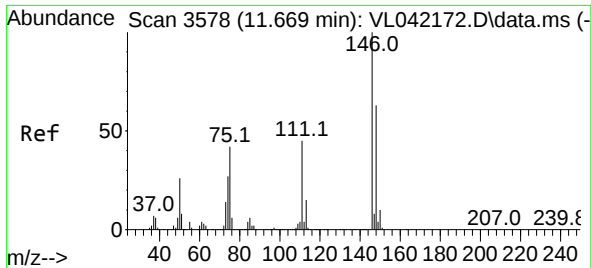
Delta R.T. 0.003 min

Lab File: VL042304.D

Acq: 10 Apr 2025 12:30

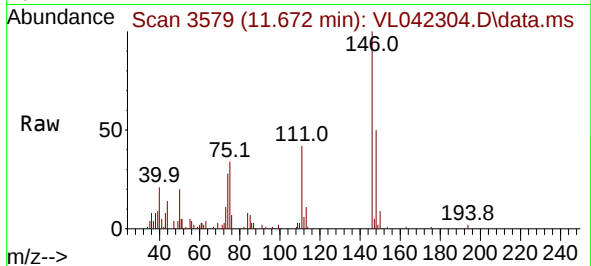
Tgt Ion: 95 Resp: 311735
 Ion Ratio Lower Upper
 95 100
 174 62.5 50.6 76.0
 175 4.5 3.8 5.6





#76
1,4-Dichlorobenzene
Concen: 0.198 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042304.D
Acq: 10 Apr 2025 12:30

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:146 Resp: 7911
Ion Ratio Lower Upper
146 100
111 44.1 23.0 69.0
148 64.2 31.9 95.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/11/2025
Supervised By :Mahesh Dadoda 04/11/2025

