

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042232.D
 Acq On : 07 Apr 2025 13:00
 Operator : SY/MD
 Sample : Q1725-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

Quant Time: Apr 08 01:31:10 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	2.803	49	201241	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	543996	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	475092	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	378319	9.697	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	11976	0.403	ppbv	94
3) Chlorodifluoromethane	1.482	51	8058m	0.265	ppbv	
4) Chloromethane	1.541	50	6769	0.557	ppbv	96
9) Propene	1.492	41	5803	0.417	ppbv	100
10) Heptane	5.017	43	4336m	0.117	ppbv	
11) Trichlorofluoromethane	1.887	101	6183	0.214	ppbv	95
13) Ethanol	1.728	45	17233	13.103	ppbv	80
15) Acetone	1.845	43	145846	5.182	ppbv	95
19) Isopropyl Alcohol	1.897	45	16701	1.052	ppbv #	1
20) Methylene Chloride	2.072	84	4976	0.475	ppbv	95
26) Hexane	2.842	57	9327	0.331	ppbv #	36
34) 2-Butanone	2.576	43	19408	0.492	ppbv	96
35) Carbon Tetrachloride	3.790	117	2731m	0.064	ppbv	
36) Benzene	3.677	78	6934	0.129	ppbv #	95
50) 4-Methyl-2-Pentanone	5.803	43	7715m	0.123	ppbv	
53) Toluene	6.962	91	37601	0.588	ppbv	99
59) m/p-Xylene	9.551	91	14589m	0.217	ppbv	

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

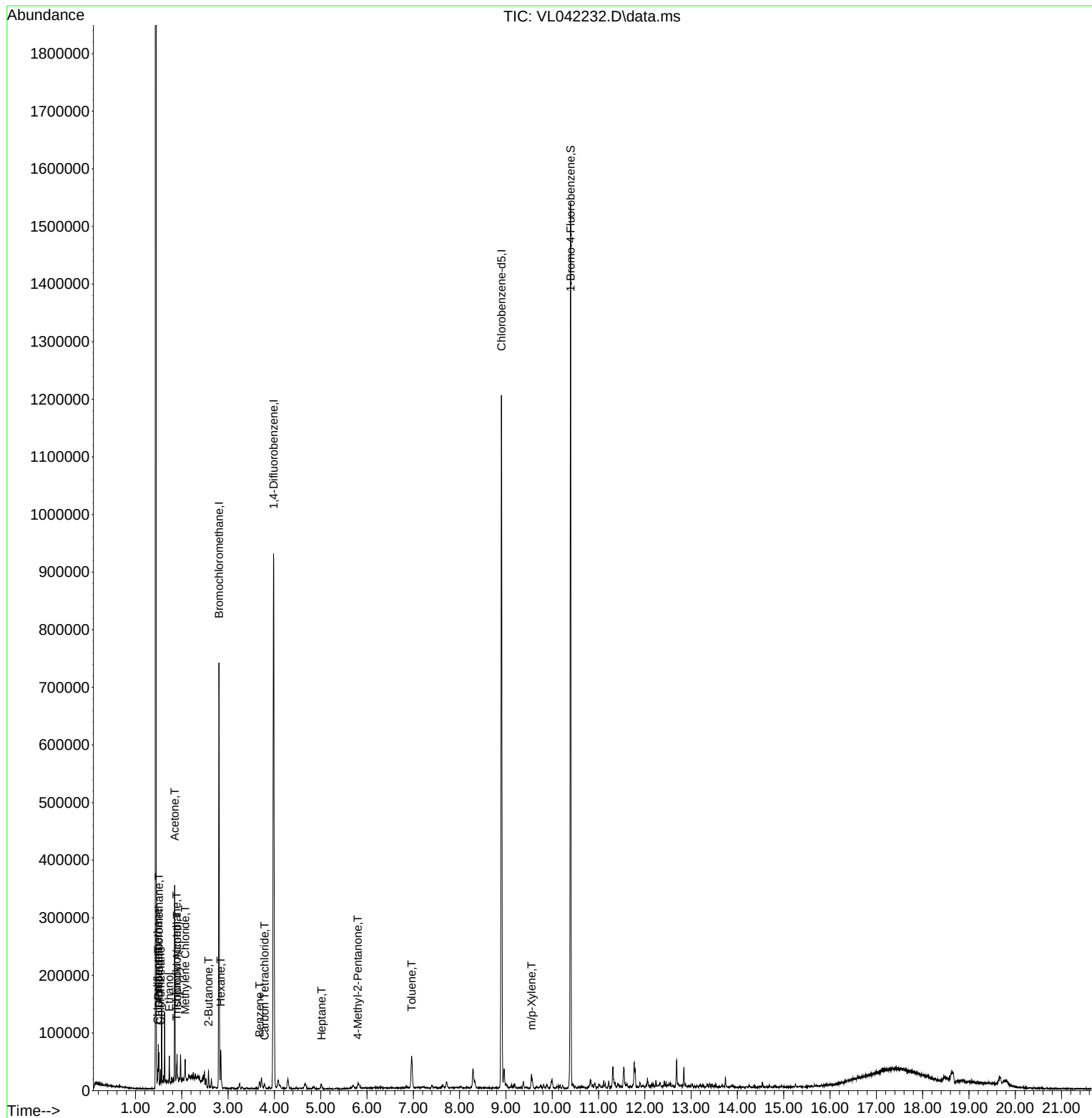
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042232.D
Acq On : 07 Apr 2025 13:00
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Misc : 400mL/MSVOA_L
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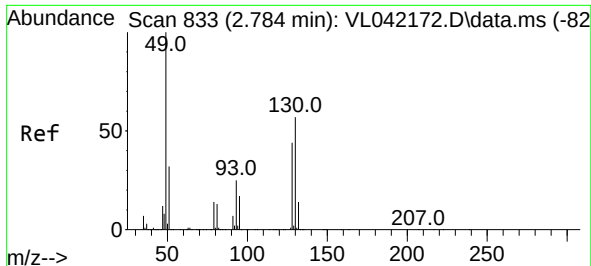
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP

Quant Time: Apr 08 01:31:10 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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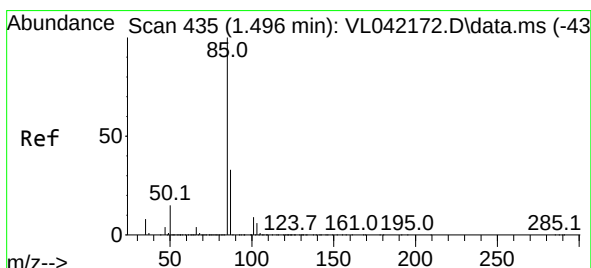
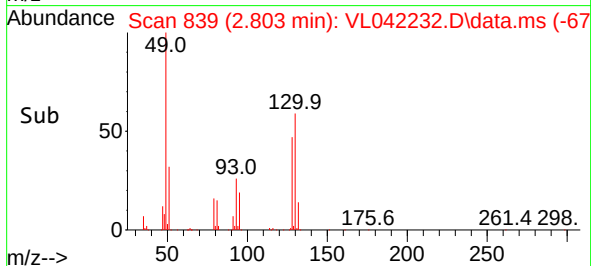
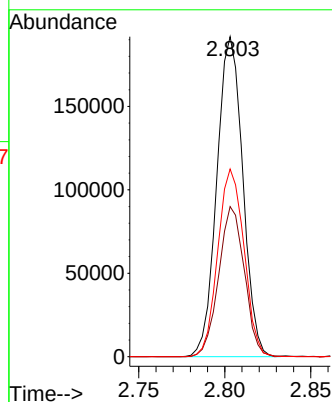
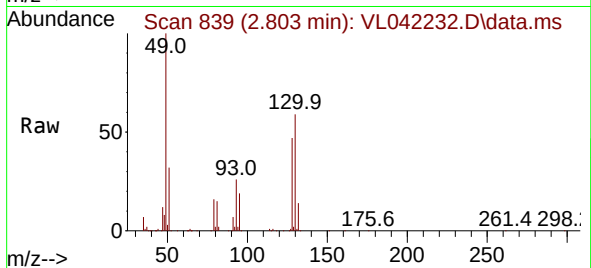
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP

Tgt Ion: 49 Resp: 20124
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 59.2 28.8 86.4

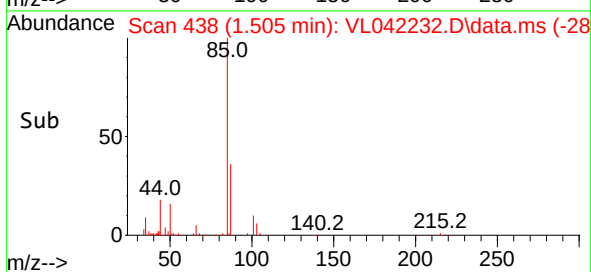
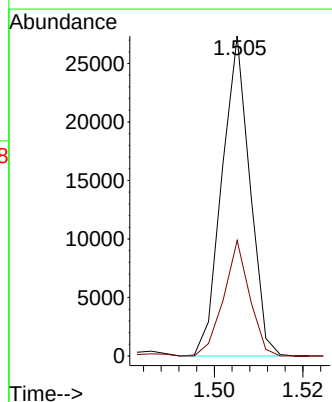
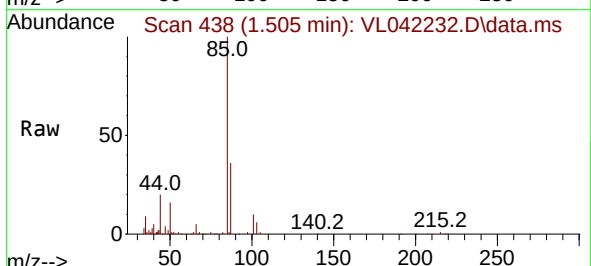
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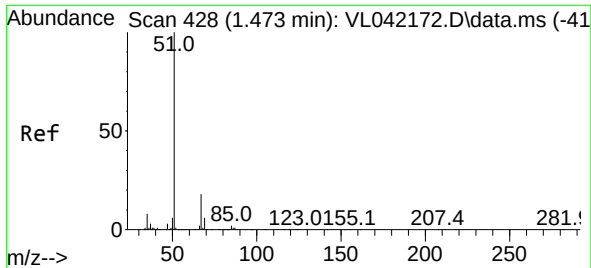
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.403 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.009 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

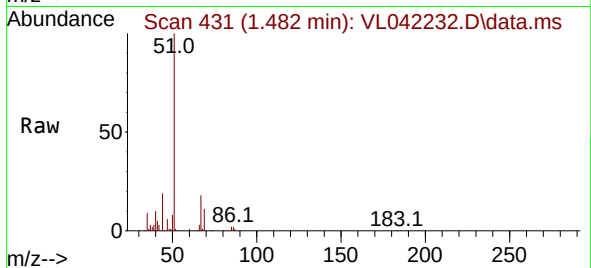
Tgt Ion: 85 Resp: 11976
Ion Ratio Lower Upper
85 100
87 36.1 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.265 ppbv m
RT: 1.482 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

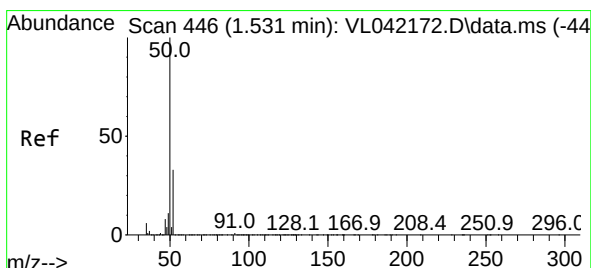
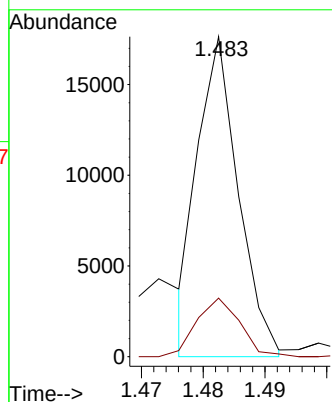
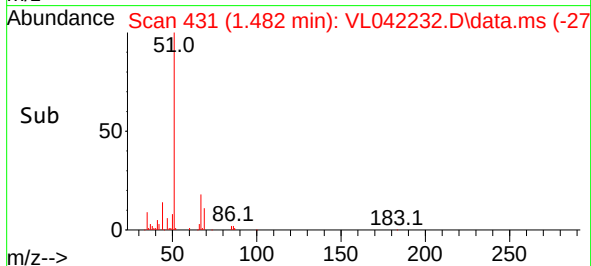
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP



Tgt Ion: 51 Resp: 805
Ion Ratio Lower Upper
51 100
67 20.0 15.0 22.6

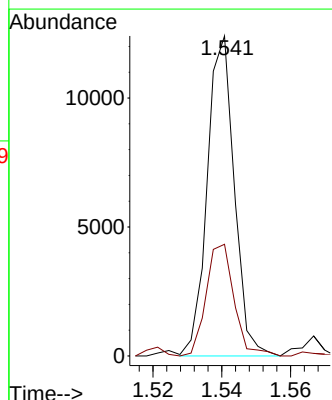
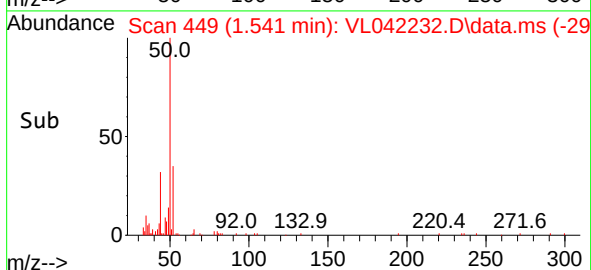
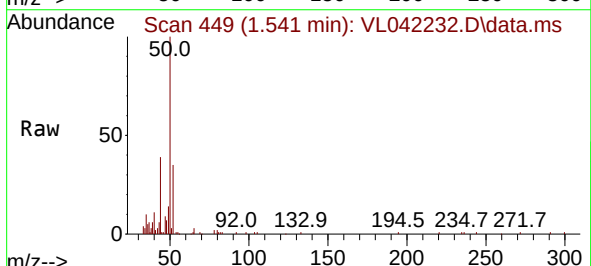
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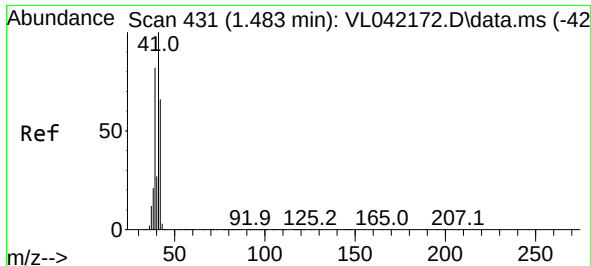
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#4
Chloromethane
Concen: 0.557 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.009 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

Tgt Ion: 50 Resp: 6769
Ion Ratio Lower Upper
50 100
52 34.9 26.1 39.1





#9

Propene

Concen: 0.417 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.009 min

Lab File: VL042232.D

Acq: 07 Apr 2025 13:00

Instrument :

MSVOA_L

ClientSampleId :

AA-1-03312025DUP

Tgt Ion: 41 Resp: 580

Ion Ratio Lower Upper

41 100

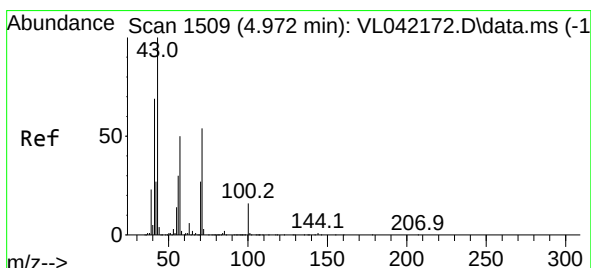
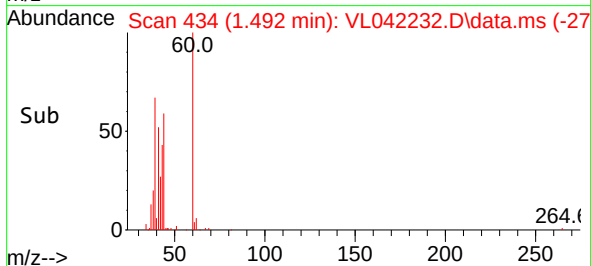
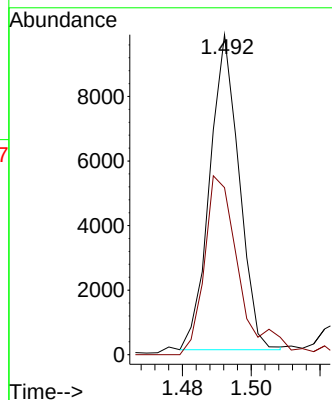
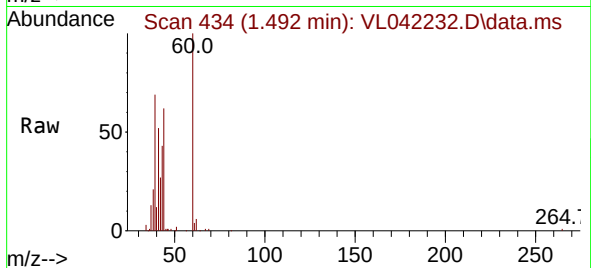
42 69.5 55.4 83.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#10

Heptane

Concen: 0.117 ppbv m

RT: 5.017 min Scan# 1523

Delta R.T. 0.045 min

Lab File: VL042232.D

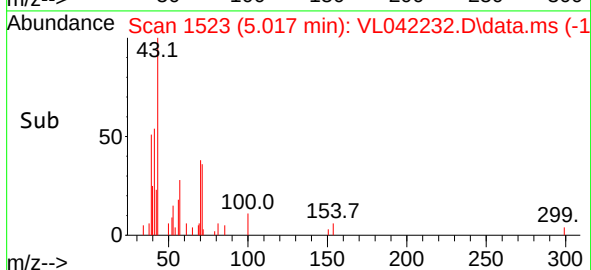
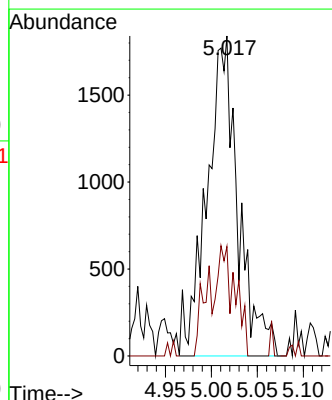
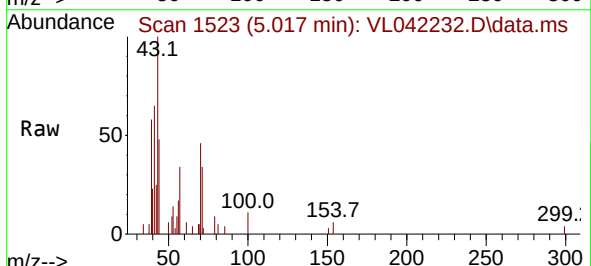
Acq: 07 Apr 2025 13:00

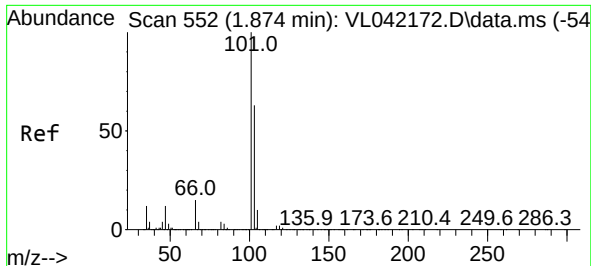
Tgt Ion: 43 Resp: 4336

Ion Ratio Lower Upper

43 100

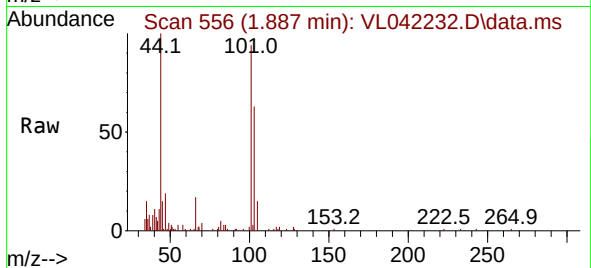
57 29.5 39.4 59.2#





#11
Trichlorofluoromethane
Concen: 0.214 ppbv
RT: 1.887 min Scan# 507
Delta R.T. 0.013 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

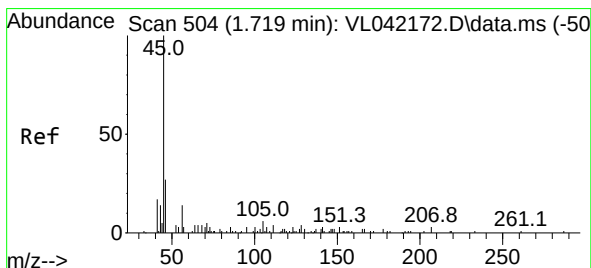
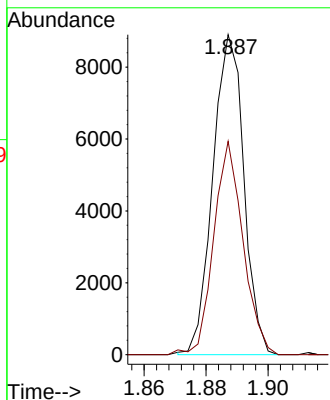
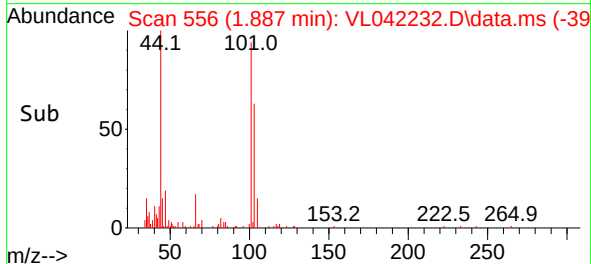
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP



Tgt Ion:101 Resp: 618
Ion Ratio Lower Upper
101 100
103 66.7 50.2 75.2

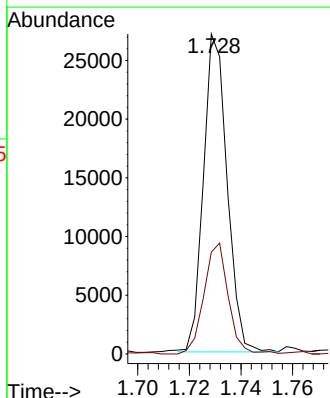
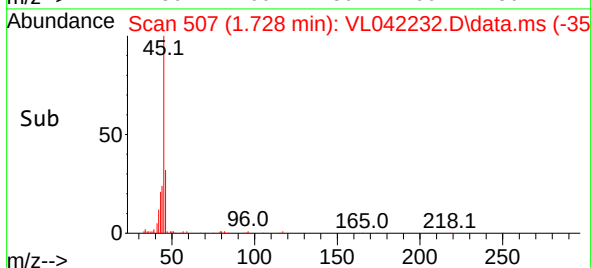
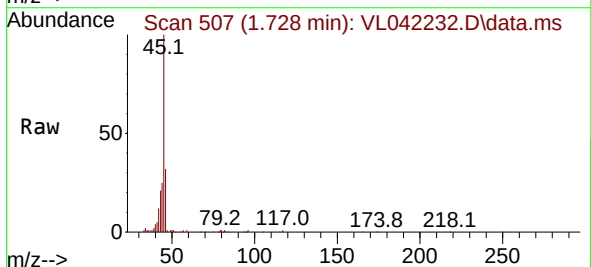
Manual Integrations
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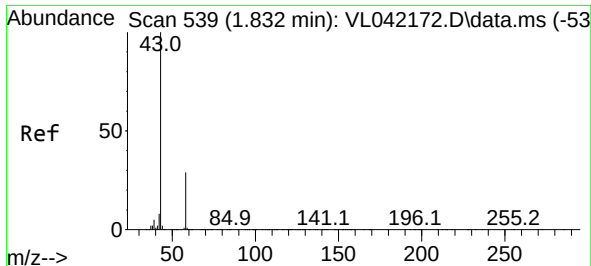
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#13
Ethanol
Concen: 13.103 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.009 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

Tgt Ion: 45 Resp: 17233
Ion Ratio Lower Upper
45 100
46 36.8 20.2 80.8





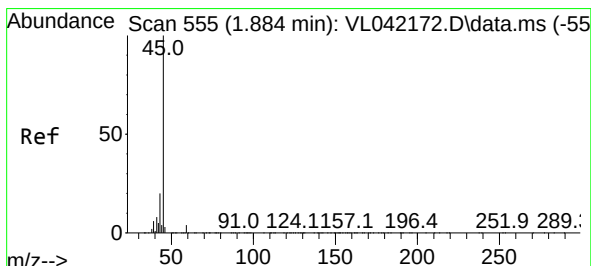
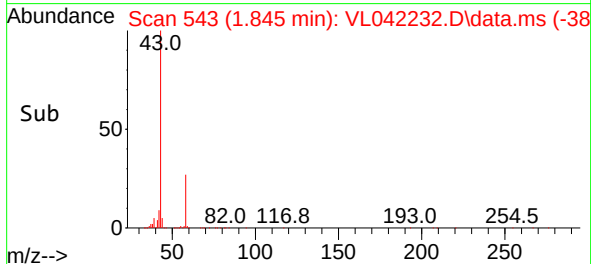
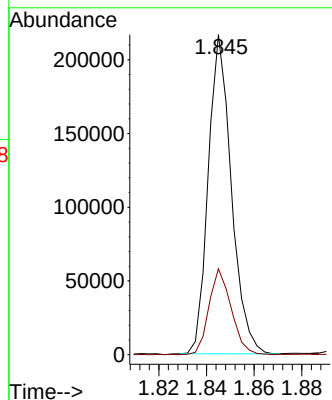
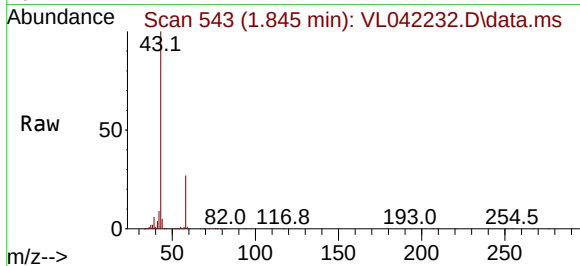
#15
Acetone
Concen: 5.182 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.013 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP

Tgt Ion: 43 Resp: 145840
Ion Ratio Lower Upper
43 100
58 26.2 23.2 34.8

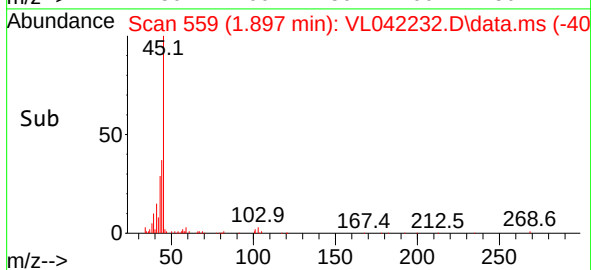
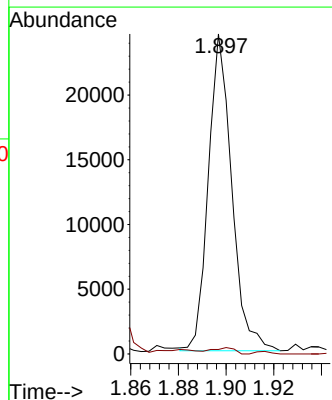
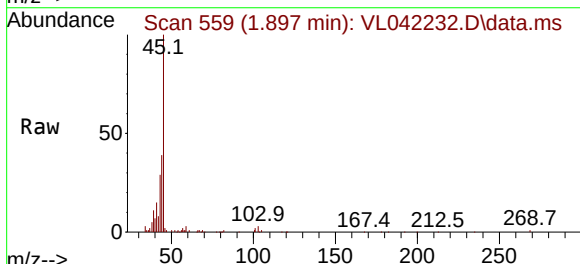
Manual Integrations
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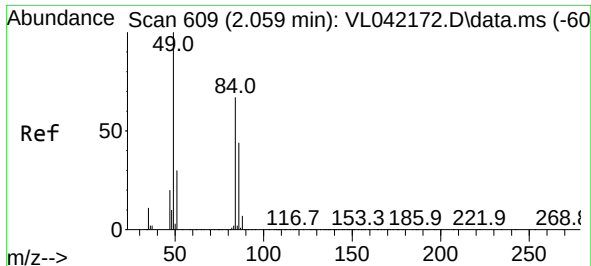
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#19
Isopropyl Alcohol
Concen: 1.052 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

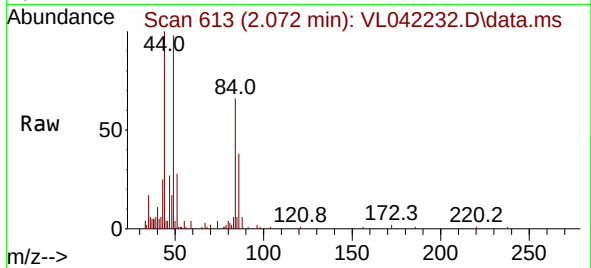
Tgt Ion: 45 Resp: 16701
Ion Ratio Lower Upper
45 100
58 231.5 36.9 55.3#





#20
Methylene Chloride
Concen: 0.475 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

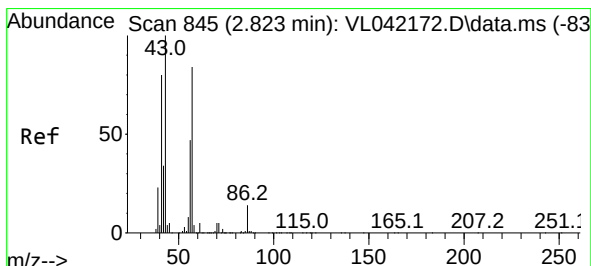
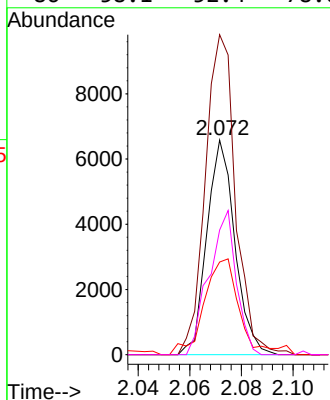
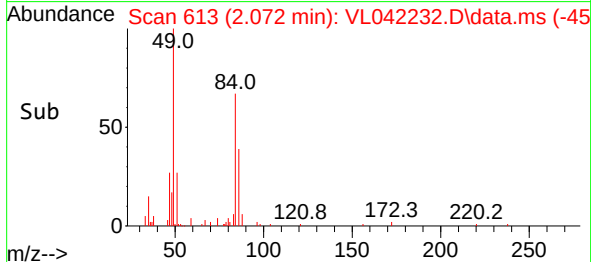
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP



Tgt Ion: 84	Resp: 4970
Ion Ratio	Lower Upper
84 100	
49 149.2	120.2 180.4
51 40.2	37.4 56.0
86 58.1	52.4 78.6

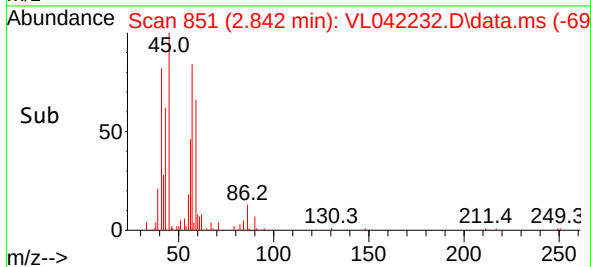
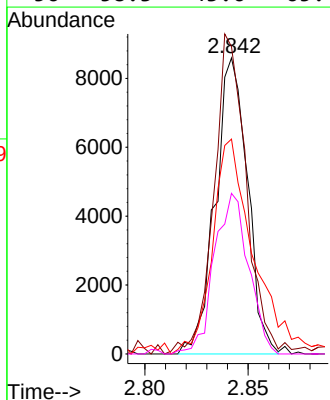
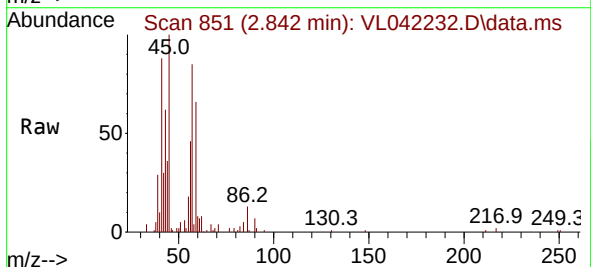
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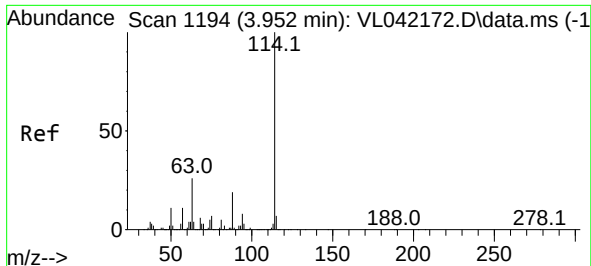
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#26
Hexane
Concen: 0.331 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.019 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

Tgt Ion: 57	Resp: 9327
Ion Ratio	Lower Upper
57 100	
41 111.0	76.6 114.8
43 92.0	207.8 311.8#
56 58.3	43.6 65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042232.D

Acq: 07 Apr 2025 13:00

Instrument :

MSVOA_L

ClientSampleId :

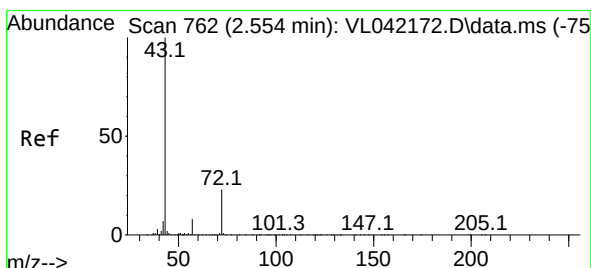
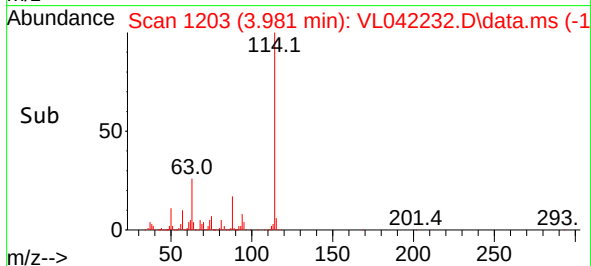
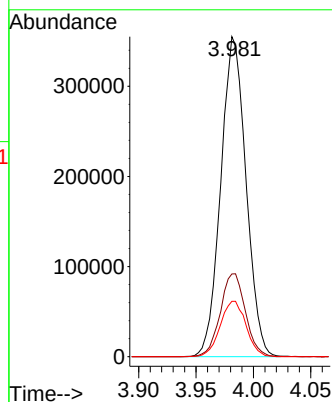
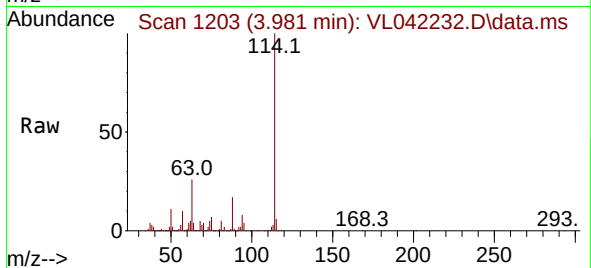
AA-1-03312025DUP

Tgt Ion:114 Resp: 543990
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.7 31.1
 88 17.7 15.0 22.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025



#34

2-Butanone

Concen: 0.492 ppbv

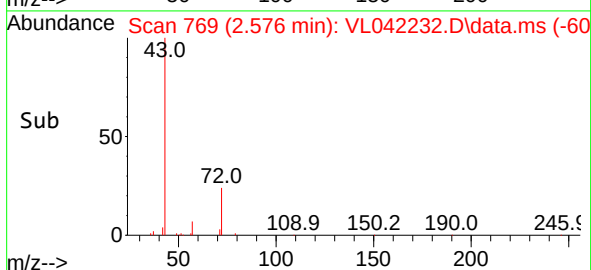
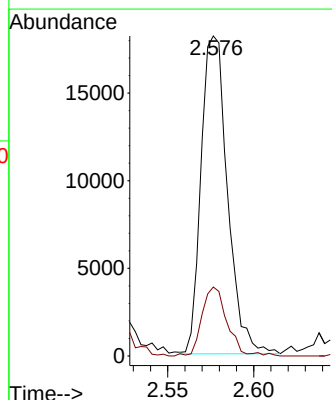
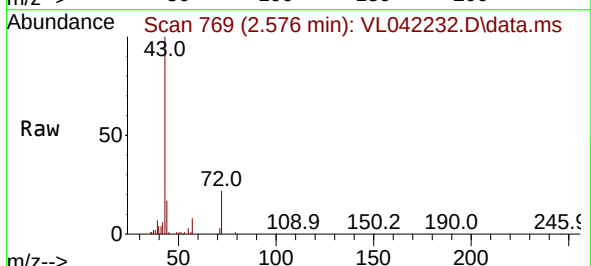
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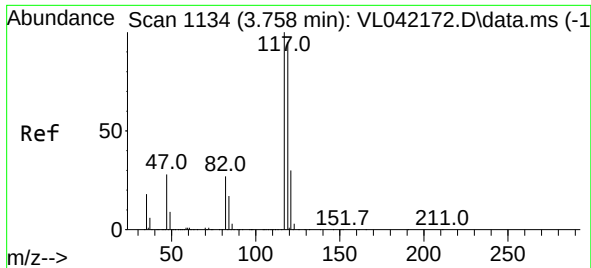
Delta R.T. 0.022 min

Lab File: VL042232.D

Acq: 07 Apr 2025 13:00

Tgt Ion: 43 Resp: 19408
 Ion Ratio Lower Upper
 43 100
 72 20.7 18.2 27.2





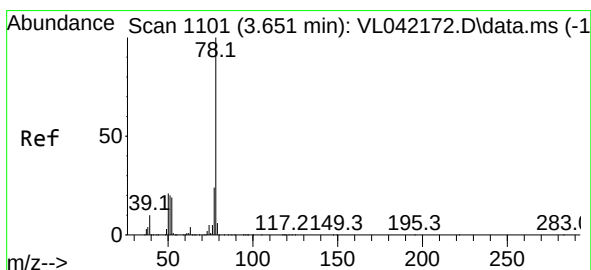
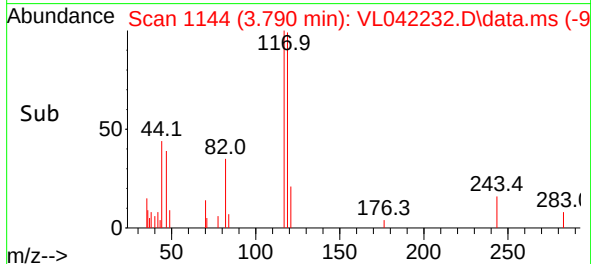
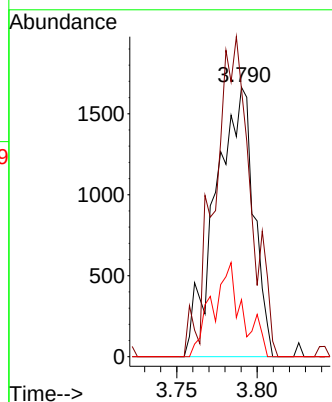
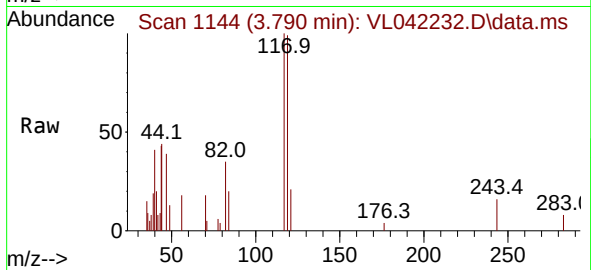
#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 3.790 min Scan# 1134
Delta R.T. 0.032 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP

Tgt Ion: 117 Resp: 273
Ion Ratio Lower Upper
117 100
119 99.3 76.2 114.2
121 21.2 24.2 36.4

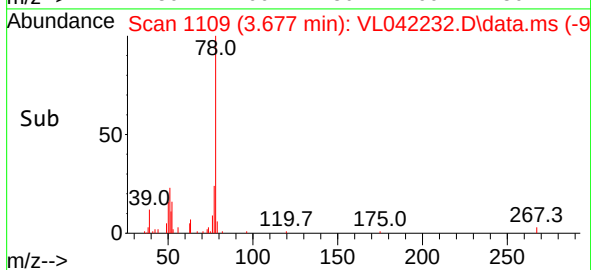
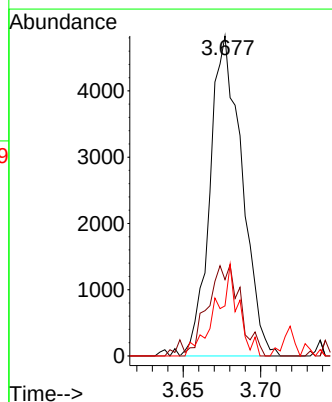
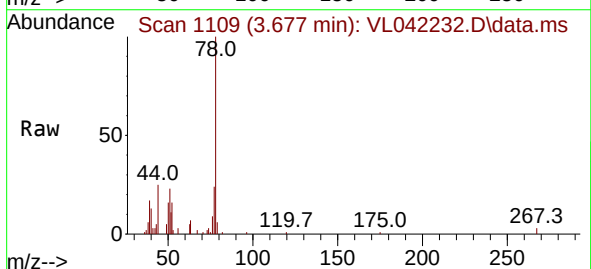
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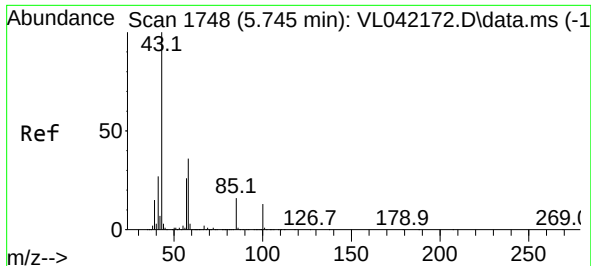
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36
Benzene
Concen: 0.129 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.026 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

Tgt Ion: 78 Resp: 6934
Ion Ratio Lower Upper
78 100
77 23.9 19.1 28.7
50 15.7 16.6 24.8





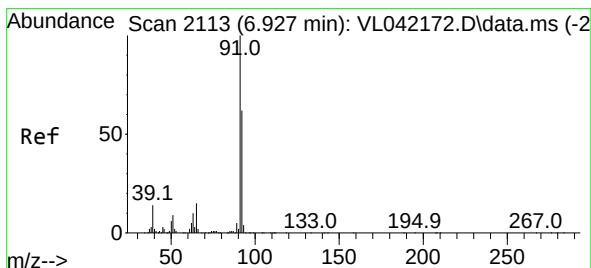
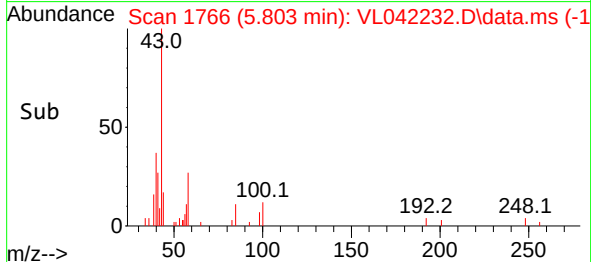
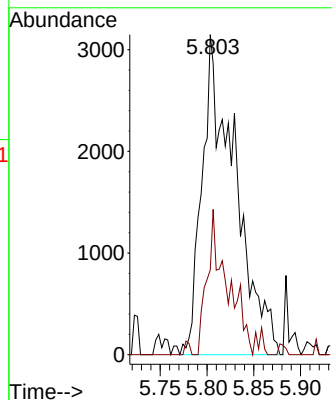
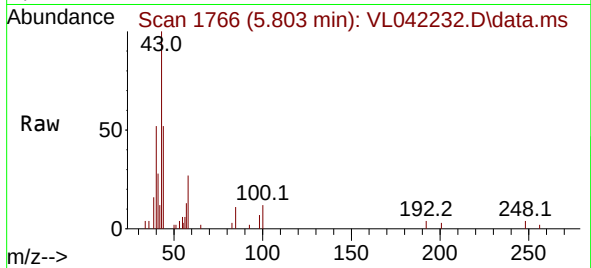
#50
4-Methyl-2-Pentanone
Concen: 0.123 ppbv
RT: 5.803 min Scan# 1766
Delta R.T. 0.058 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP

Tgt Ion: 43 Resp: 7715
Ion Ratio Lower Upper
43 100
58 29.8 29.0 43.6

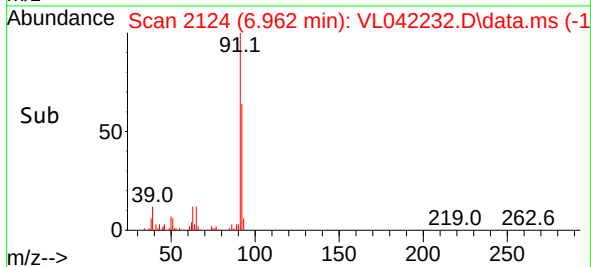
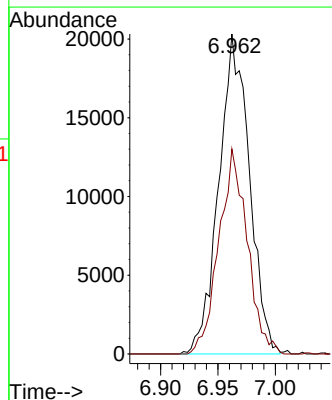
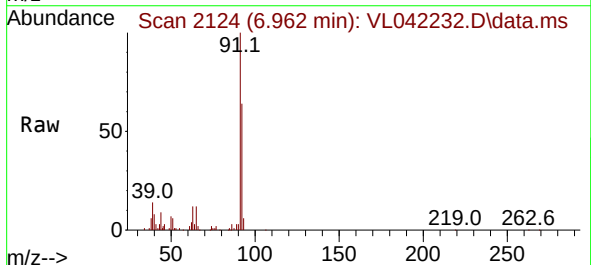
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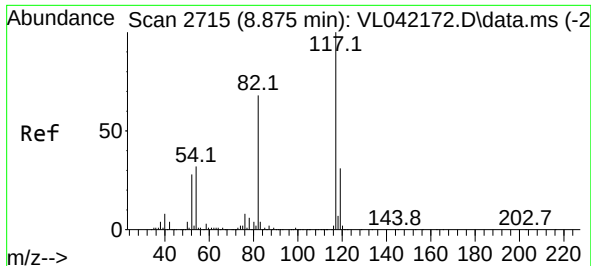
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 0.588 ppbv
RT: 6.962 min Scan# 2124
Delta R.T. 0.035 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

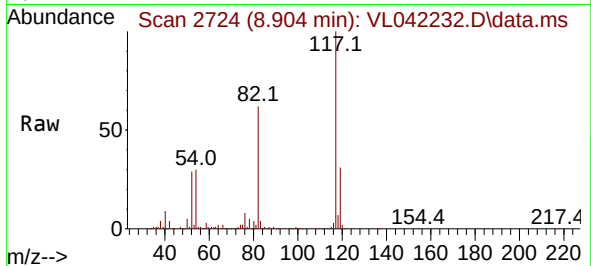
Tgt Ion: 91 Resp: 37601
Ion Ratio Lower Upper
91 100
92 59.6 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

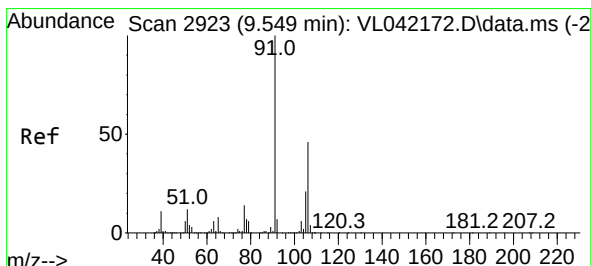
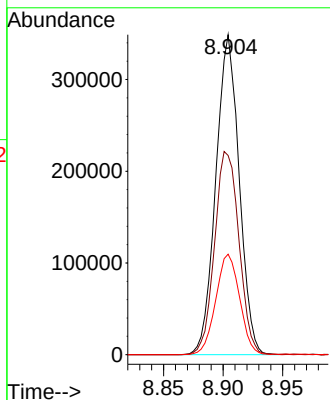
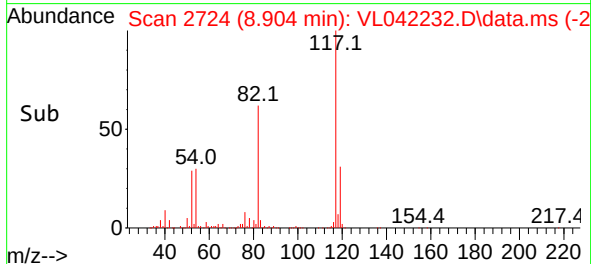
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025DUP



Tgt Ion: 117 Resp: 475092
Ion Ratio Lower Upper
117 100
82 66.4 55.8 83.6
119 32.2 25.5 38.3

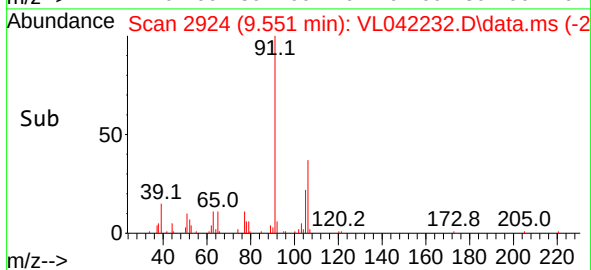
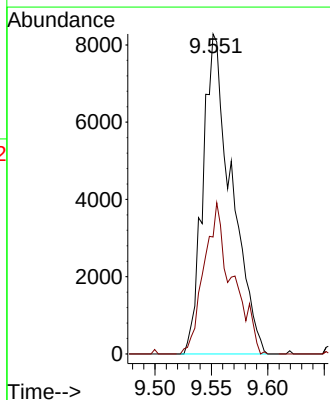
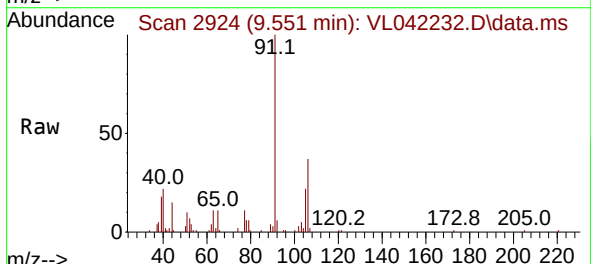
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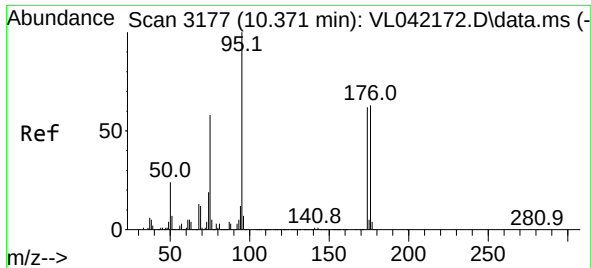
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#59
m/p-Xylene
Concen: 0.217 ppbv m
RT: 9.551 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042232.D
Acq: 07 Apr 2025 13:00

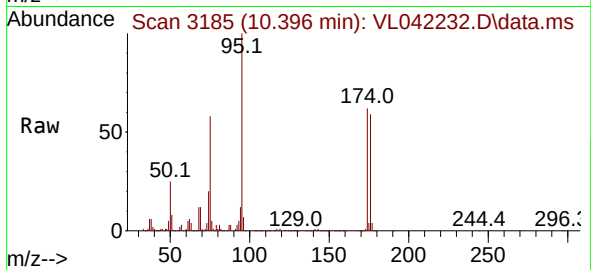
Tgt Ion: 91 Resp: 14589
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.697 ppbv
 RT: 10.396 min Scan# 3177
 Delta R.T. 0.026 min
 Lab File: VL042232.D
 Acq: 07 Apr 2025 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025DUP



Tgt Ion: 95 Resp: 378319
 Ion Ratio Lower Upper
 95 100
 174 60.2 50.6 76.0
 175 4.5 3.8 5.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/08/2025
 Supervised By :Mahesh Dadoda 04/09/2025

