

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042231.D
 Acq On : 07 Apr 2025 12:27
 Operator : SY/MD
 Sample : Q1725-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025

Manual Integrations
 APPROVED

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

Quant Time: Apr 08 01:30:38 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	2.800	49	202620	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	551417	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	479781	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	381172	9.674	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	12053	0.403	ppbv	95
3) Chlorodifluoromethane	1.483	51	8523m	0.279	ppbv	
4) Chloromethane	1.538	50	7078	0.579	ppbv	97
9) Propene	1.492	41	6667	0.476	ppbv #	80
10) Heptane	5.004	43	4131m	0.111	ppbv	
11) Trichlorofluoromethane	1.884	101	5976	0.205	ppbv	92
13) Ethanol	1.729	45	17438	13.168	ppbv	81
15) Acetone	1.842	43	143188	5.053	ppbv	96
19) Isopropyl Alcohol	1.894	45	17414	1.089	ppbv #	1
20) Methylene Chloride	2.072	84	4263	0.404	ppbv #	76
26) Hexane	2.842	57	9360	0.329	ppbv #	44
34) 2-Butanone	2.573	43	21340	0.534	ppbv	92
35) Carbon Tetrachloride	3.784	117	2850m	0.066	ppbv	
36) Benzene	3.671	78	7483	0.137	ppbv #	91
50) 4-Methyl-2-Pentanone	5.804	43	8496m	0.134	ppbv	
53) Toluene	6.959	91	39177m	0.605	ppbv	
59) m/p-Xylene	9.545	91	14796m	0.217	ppbv	

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

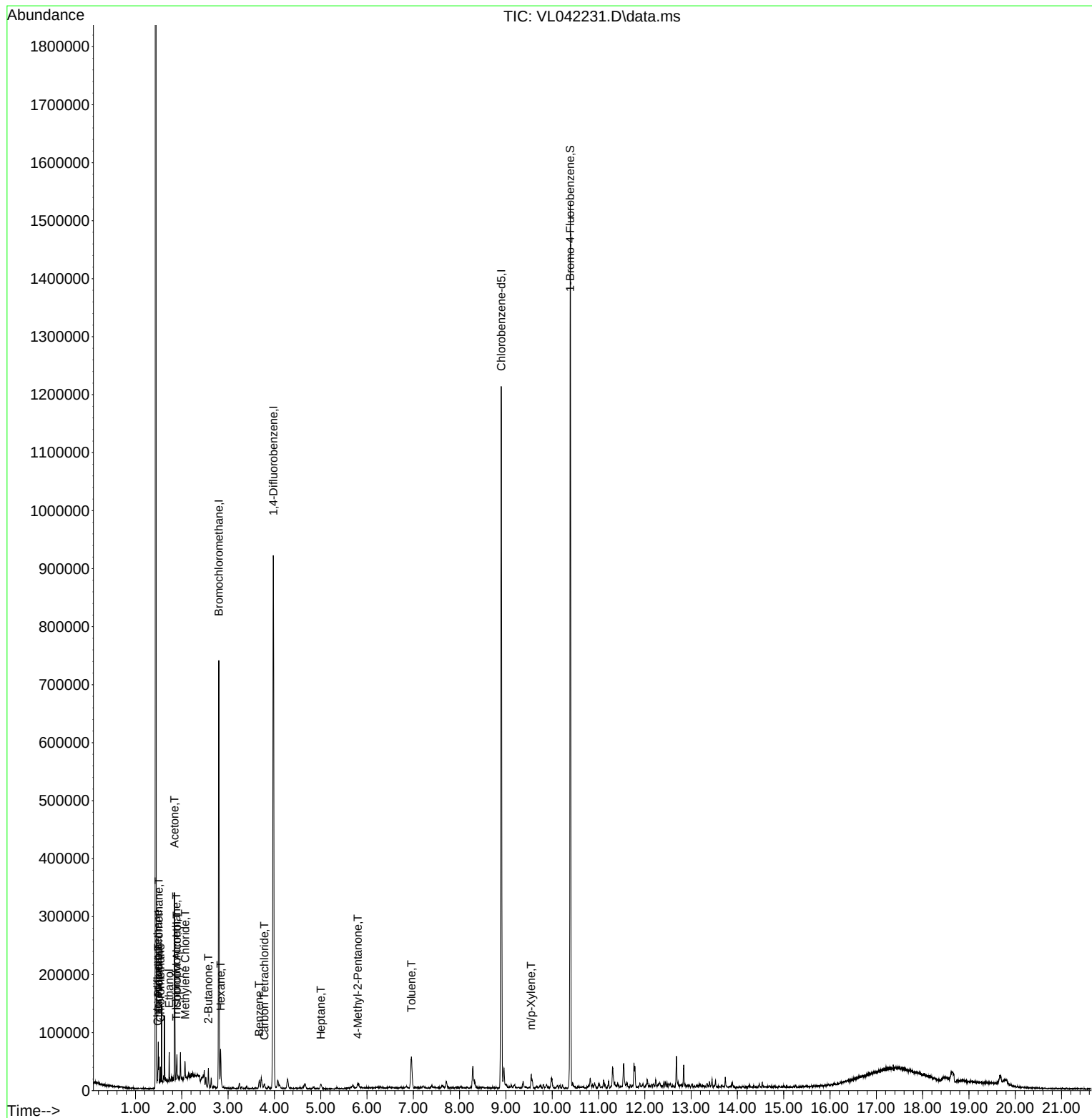
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042231.D
Acq On : 07 Apr 2025 12:27
Operator : SY/MD
Sample : Q1725-04
Misc : 400mL/MSVOA_L
ALS Vial : 5 Sample Multiplier: 1

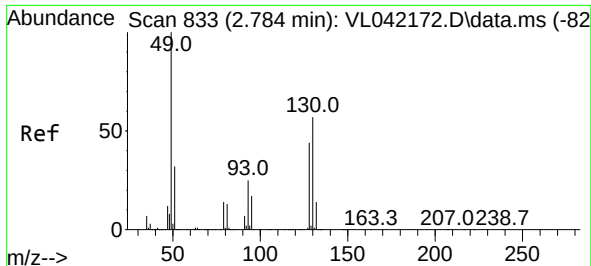
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Quant Time: Apr 08 01:30:38 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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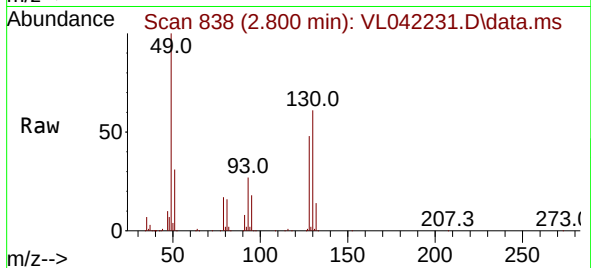
Reviewed By : Semsettin Yesilyurt 04/08/2025
Supervised By : Mahesh Dadoda 04/09/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

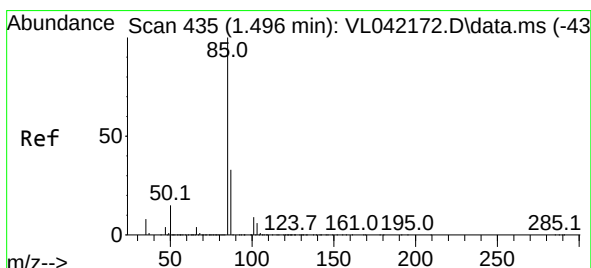
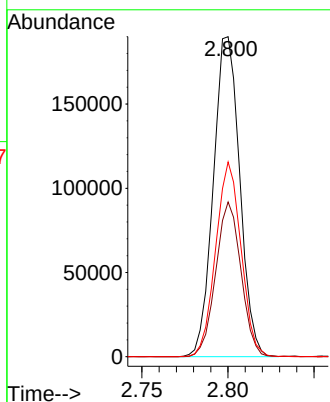
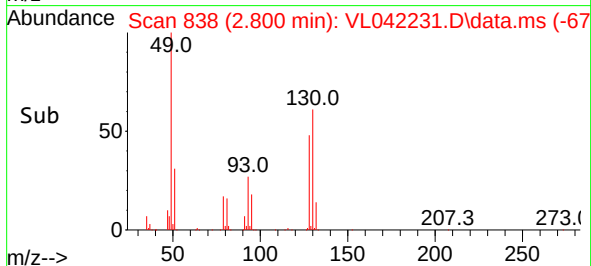
Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025



Tgt Ion: 49 Resp: 202620
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 58.4 28.8 86.4

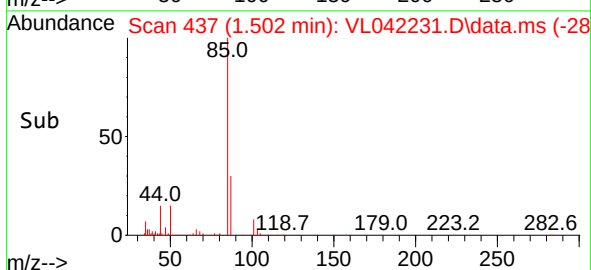
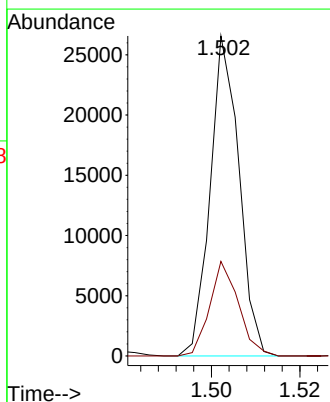
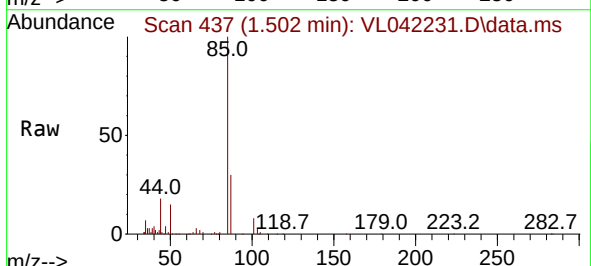
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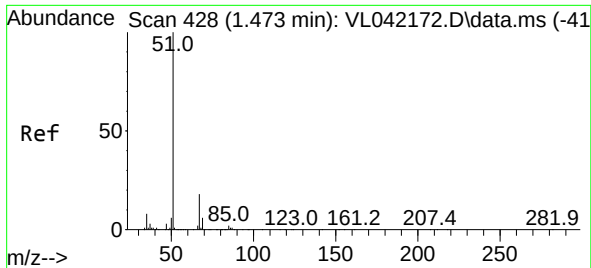
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#2
Dichlorodifluoromethane
Concen: 0.403 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 85 Resp: 12053
Ion Ratio Lower Upper
85 100
87 29.6 26.1 39.1





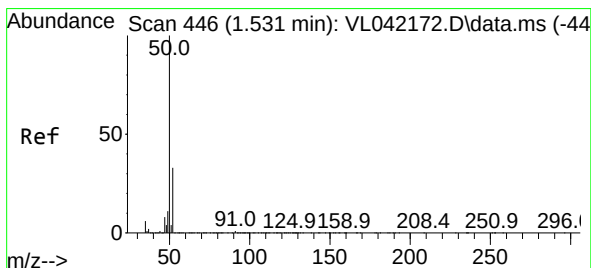
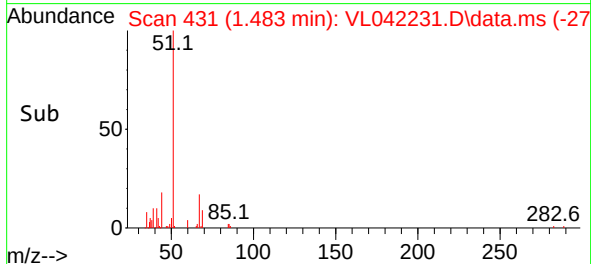
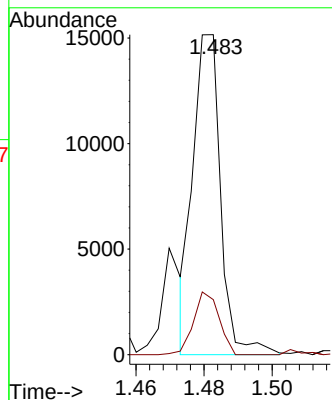
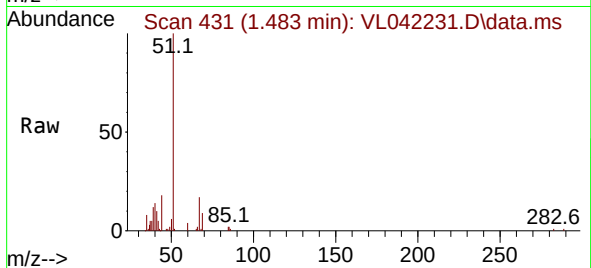
#3
Chlorodifluoromethane
Concen: 0.279 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Tgt Ion: 51 Resp: 852
Ion Ratio Lower Upper
51 100
67 2.4 15.0 22.6

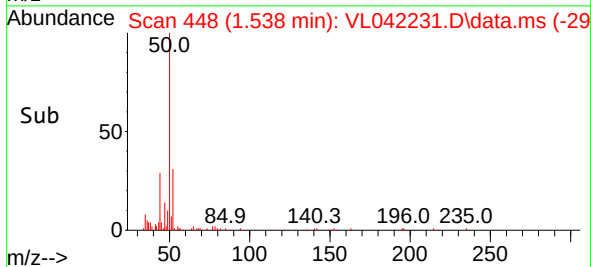
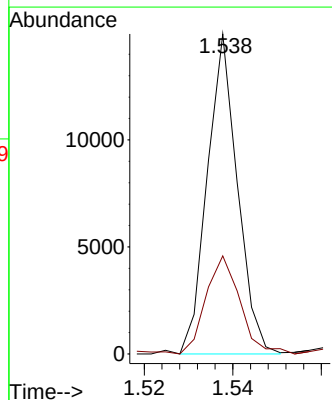
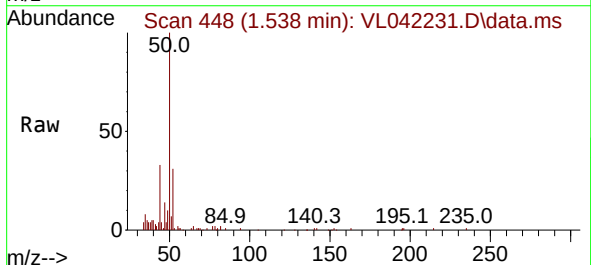
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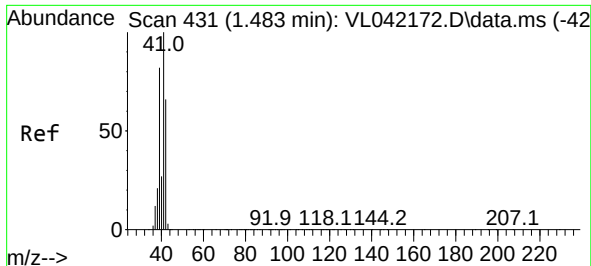
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#4
Chloromethane
Concen: 0.579 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 50 Resp: 7078
Ion Ratio Lower Upper
50 100
52 30.8 26.1 39.1





#9

Propene

Concen: 0.476 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

AA-1-03312025

Tgt Ion: 41 Resp: 666

Ion Ratio Lower Upper

41 100

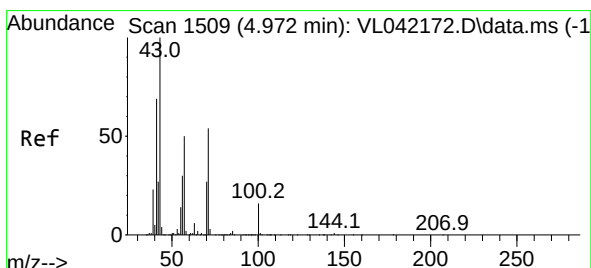
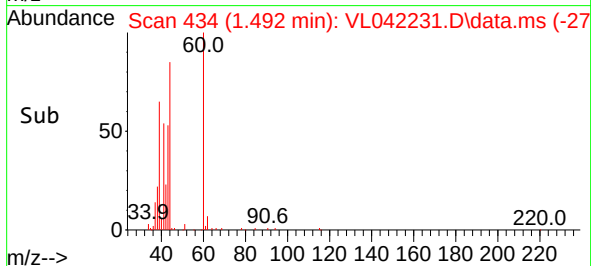
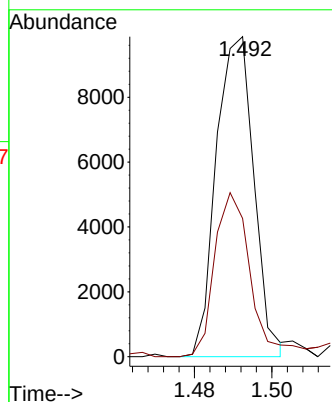
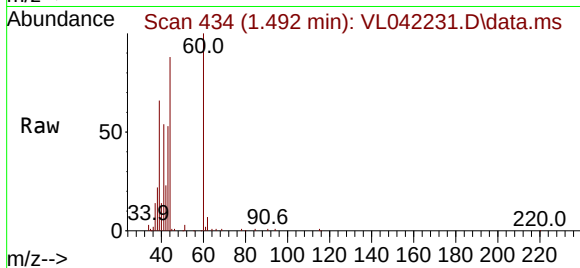
42 52.8 55.4 83.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#10

Heptane

Concen: 0.111 ppbv m

RT: 5.004 min Scan# 1519

Delta R.T. 0.032 min

Lab File: VL042231.D

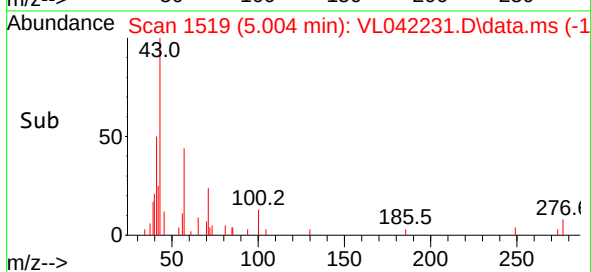
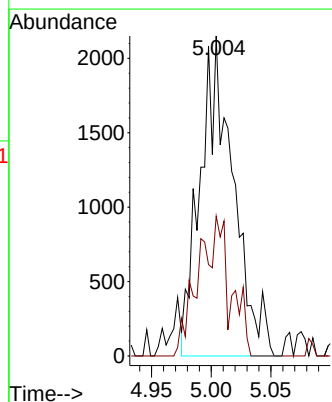
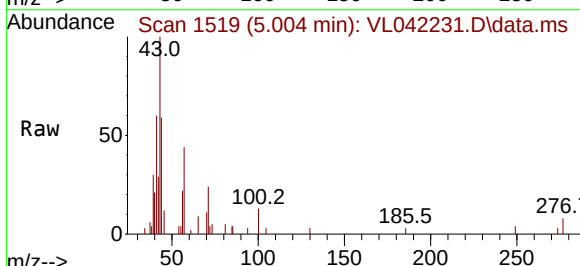
Acq: 07 Apr 2025 12:27

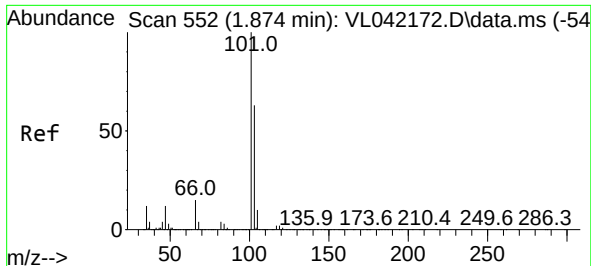
Tgt Ion: 43 Resp: 4131

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.2





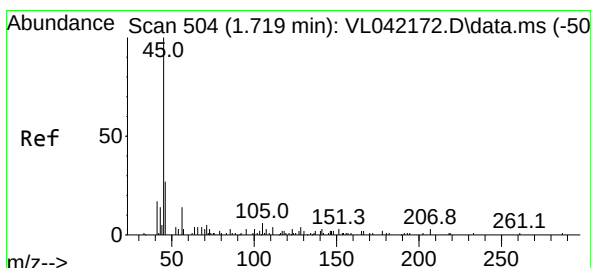
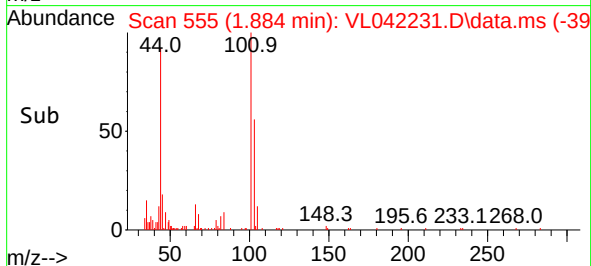
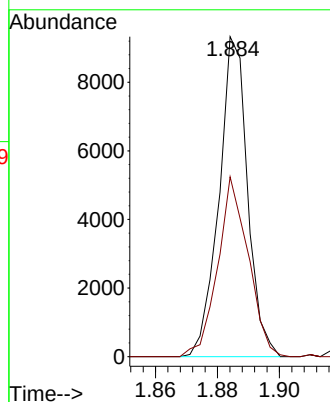
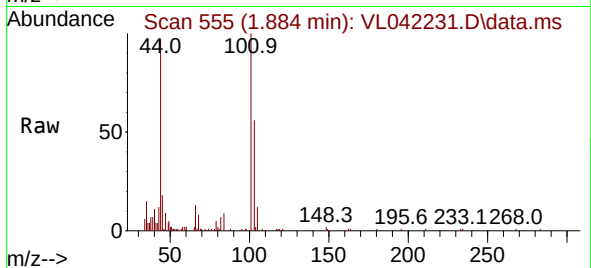
#11
Trichlorofluoromethane
Concen: 0.205 ppbv
RT: 1.884 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Tgt Ion:101 Resp: 5970
Ion Ratio Lower Upper
101 100
103 56.2 50.2 75.2

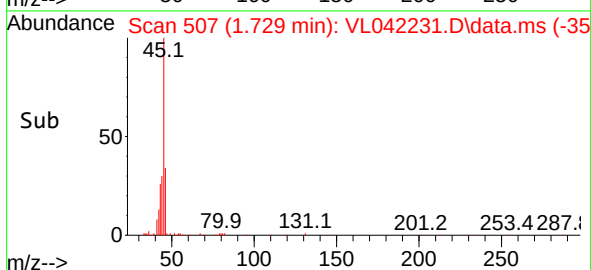
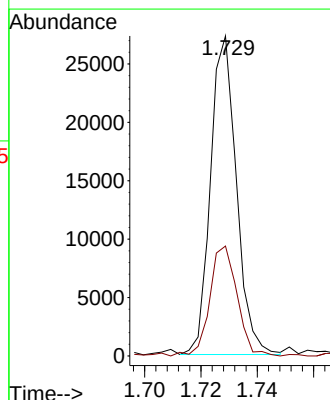
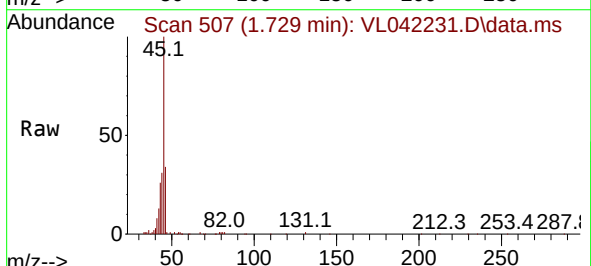
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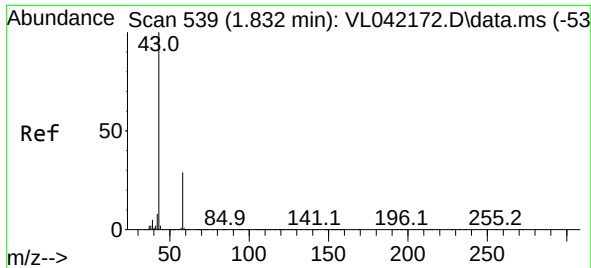
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#13
Ethanol
Concen: 13.168 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 45 Resp: 17438
Ion Ratio Lower Upper
45 100
46 37.7 20.2 80.8





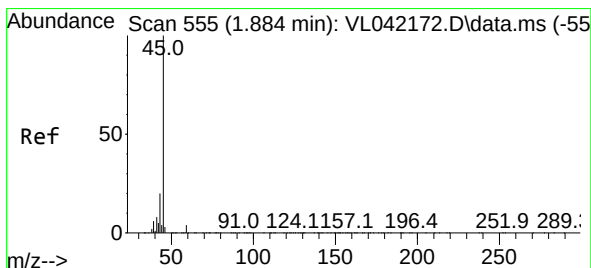
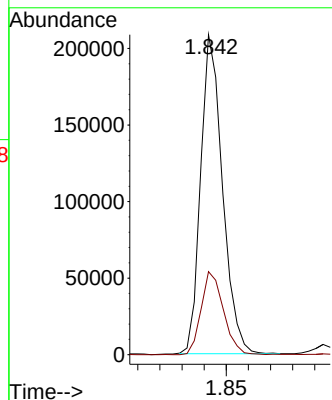
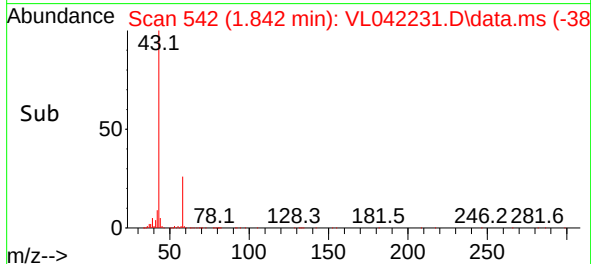
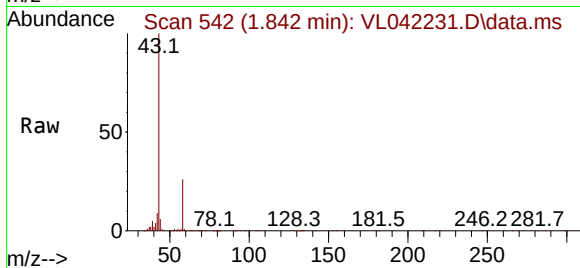
#15
Acetone
Concen: 5.053 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Instrument :
MSVOA_L
ClientSampleId :
AA-1-03312025

Tgt Ion: 43 Resp: 143188
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8

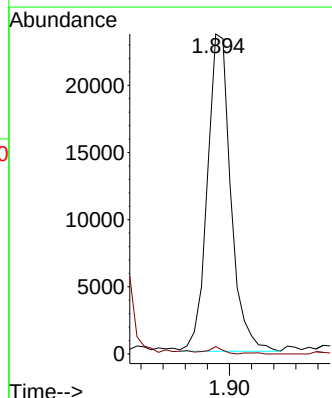
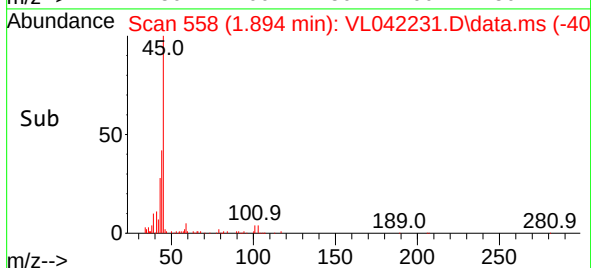
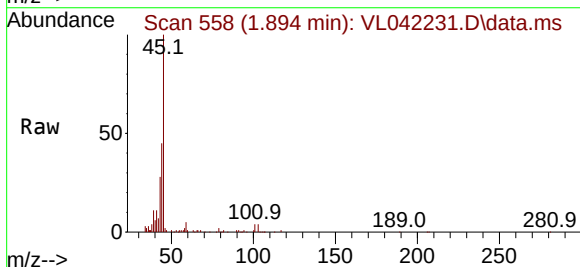
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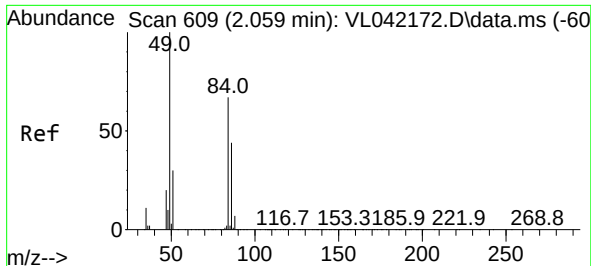
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#19
Isopropyl Alcohol
Concen: 1.089 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 45 Resp: 17414
Ion Ratio Lower Upper
45 100
58 219.8 36.9 55.3#





#20

Methylene Chloride

Concen: 0.404 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.013 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

AA-1-03312025

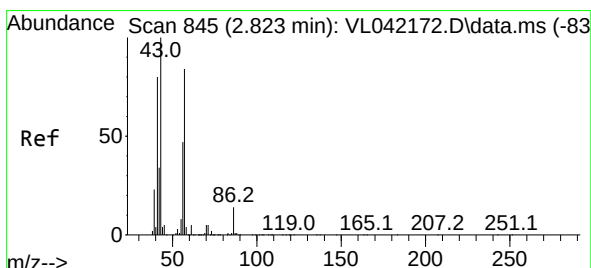
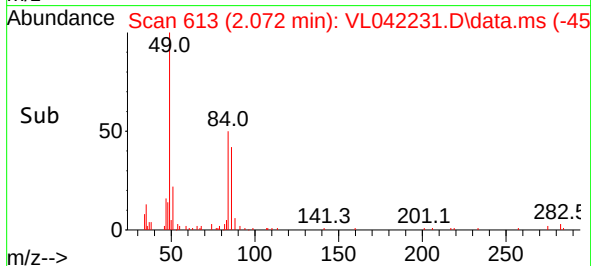
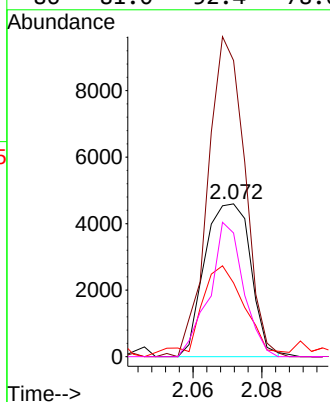
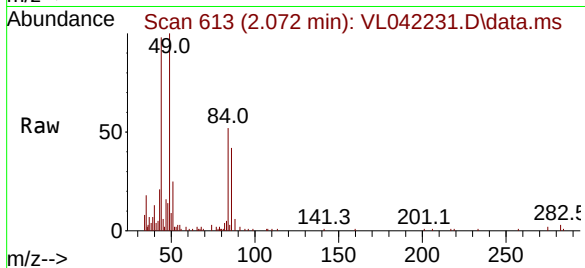
Tgt Ion: 84	Resp: 426		
Ion	Ratio	Lower	Upper
84	100		
49	191.3	120.2	180.4
51	44.7	37.4	56.0
86	81.0	52.4	78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/08/2025

Supervised By :Mahesh Dadoda 04/09/2025



#26

Hexane

Concen: 0.329 ppbv

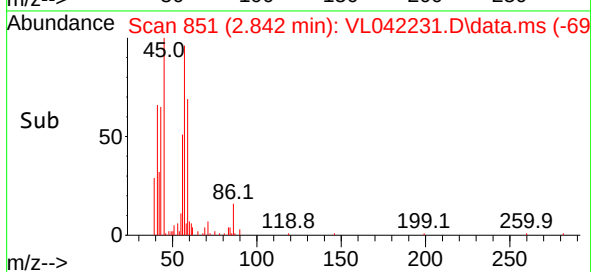
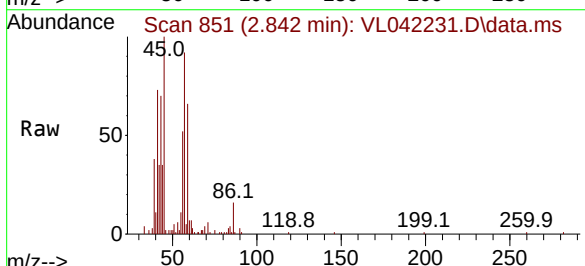
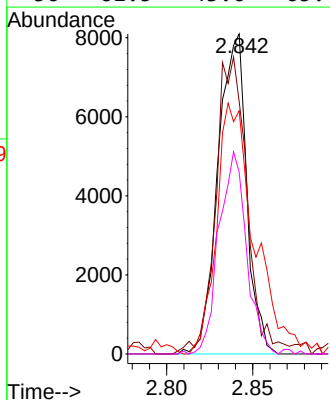
RT: 2.842 min Scan# 851

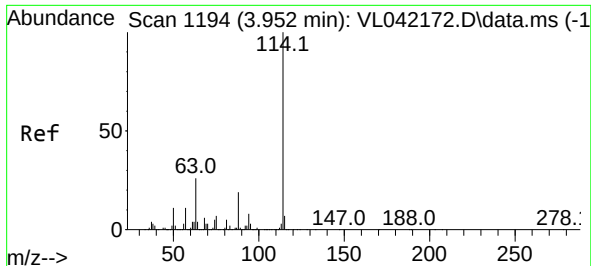
Delta R.T. 0.019 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Tgt Ion: 57	Resp: 9360
Ion Ratio	Lower Upper
57 100	
41 101.0	76.6 114.8
43 110.0	207.8 311.8#
56 61.5	43.6 65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1194

Delta R.T. 0.026 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

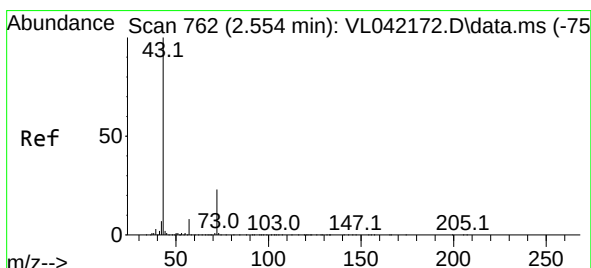
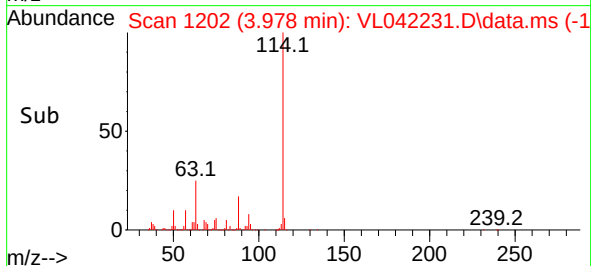
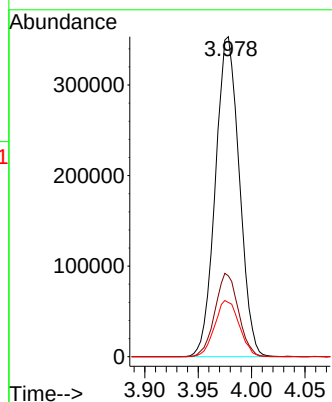
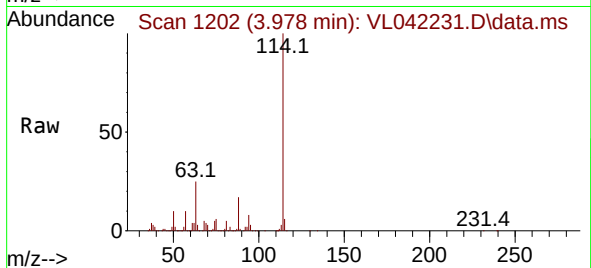
AA-1-03312025

Tgt Ion:	114	Resp:	55141
Ion Ratio	Lower	Upper	
114	100		
63	25.6	20.7	31.1
88	18.0	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: 0.534 ppbv

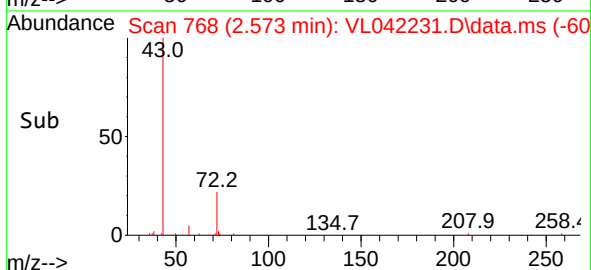
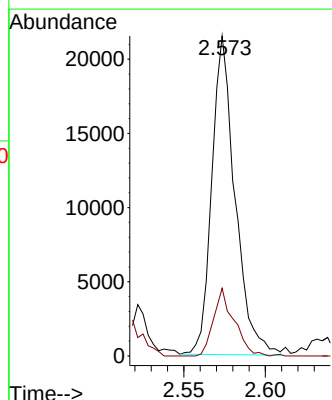
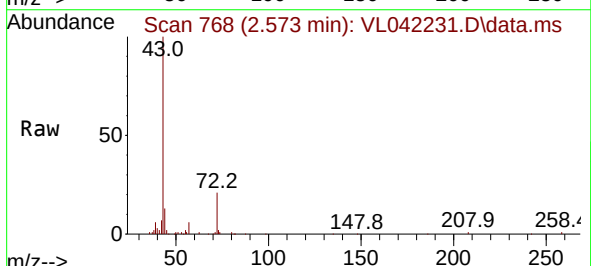
RT: 2.573 min Scan# 768

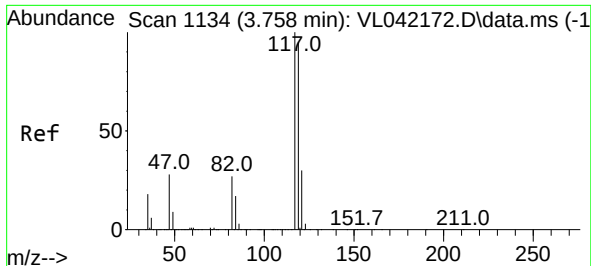
Delta R.T. 0.019 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

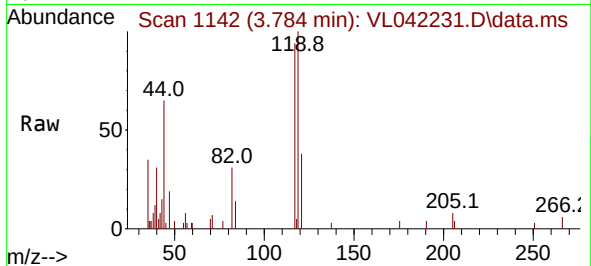
Tgt Ion:	43	Resp:	21340
Ion Ratio	Lower	Upper	
43	100		
72	18.9	18.2	27.2





#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.784 min Scan# 1134
Delta R.T. 0.026 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

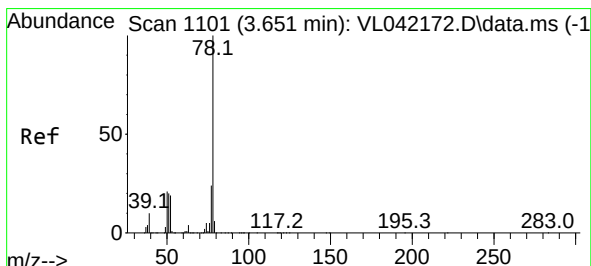
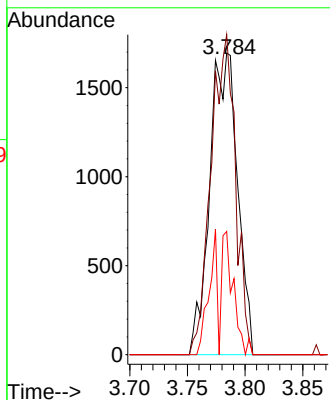
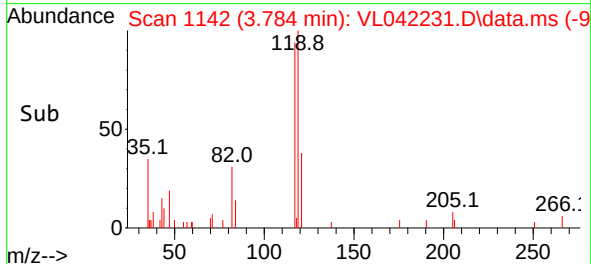
Instrument : MSVOA_L
ClientSampleId : AA-1-03312025



Tgt Ion: 117 Resp: 2850
Ion Ratio Lower Upper
117 100
119 106.1 76.2 114.2
121 40.8 24.2 36.4

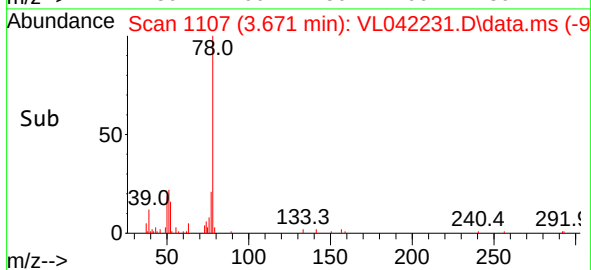
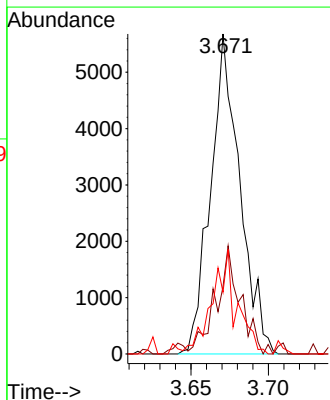
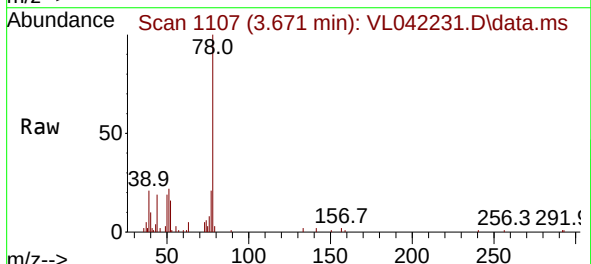
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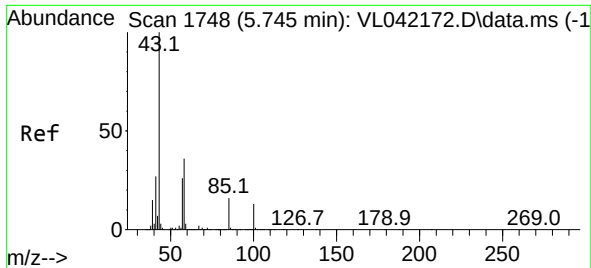
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#36
Benzene
Concen: 0.137 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.019 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 78 Resp: 7483
Ion Ratio Lower Upper
78 100
77 18.7 19.1 28.7#
50 17.7 16.6 24.8





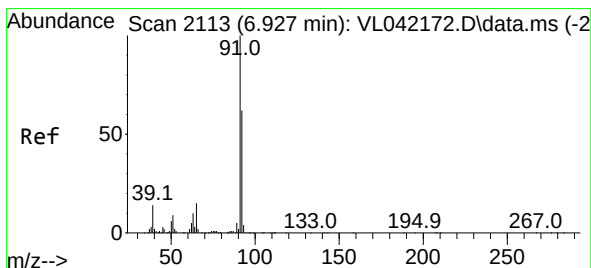
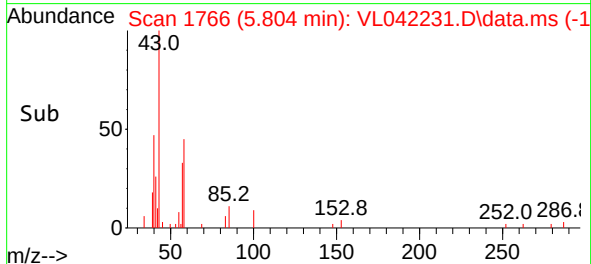
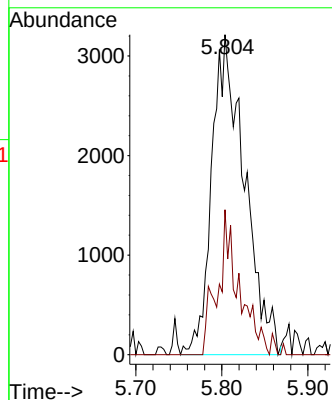
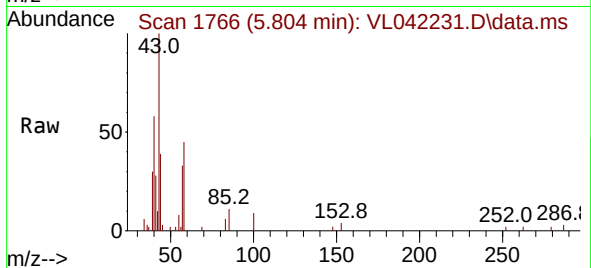
#50
4-Methyl-2-Pentanone
Concen: 0.134 ppbv m
RT: 5.804 min Scan# 1766
Delta R.T. 0.058 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Instrument : MSVOA_L
ClientSampleId : AA-1-03312025

Tgt Ion: 43 Resp: 8490
Ion Ratio Lower Upper
43 100
58 30.4 29.0 43.6

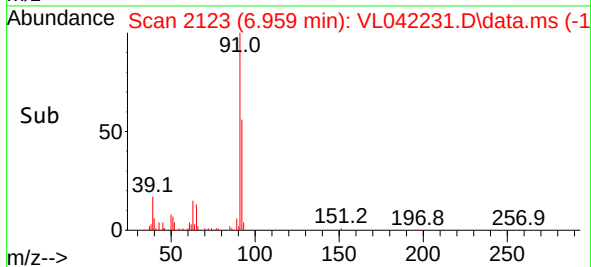
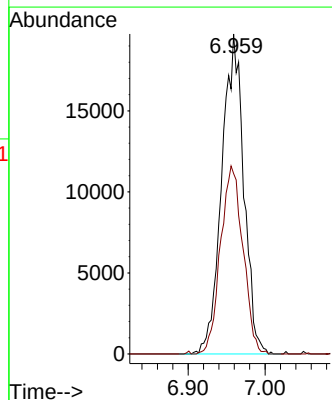
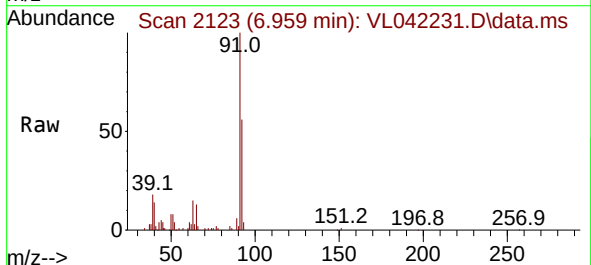
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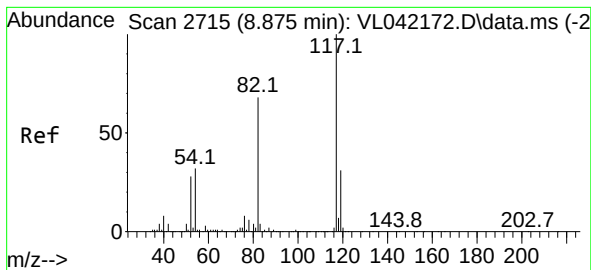
Reviewed By :Semsettin Yesilyurt 04/08/2025
Supervised By :Mahesh Dadoda 04/09/2025



#53
Toluene
Concen: 0.605 ppbv m
RT: 6.959 min Scan# 2123
Delta R.T. 0.032 min
Lab File: VL042231.D
Acq: 07 Apr 2025 12:27

Tgt Ion: 91 Resp: 39177
Ion Ratio Lower Upper
91 100
92 60.0 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.901 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Instrument :

MSVOA_L

ClientSampleId :

AA-1-03312025

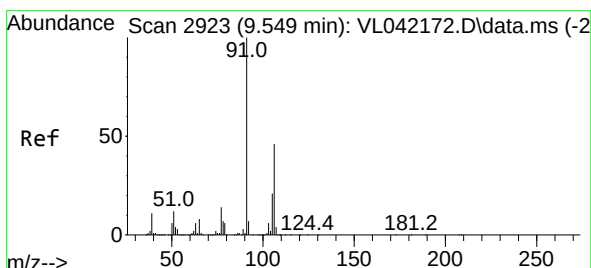
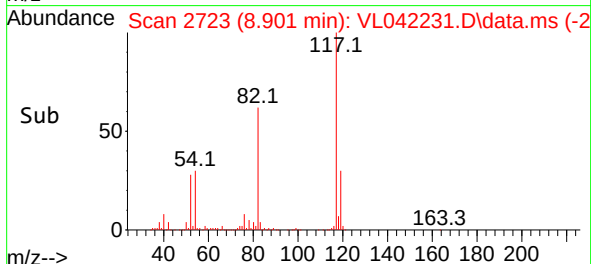
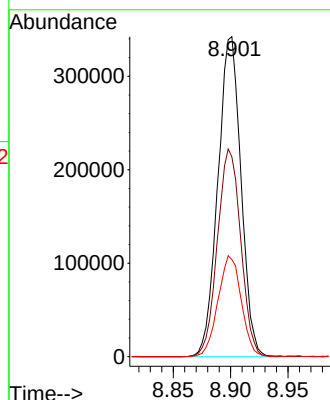
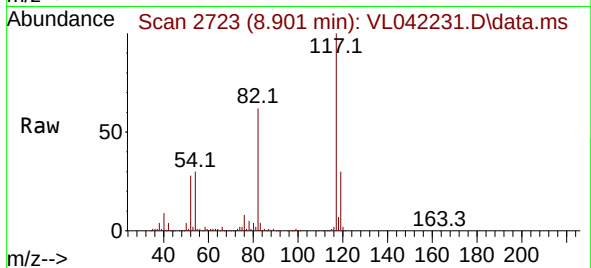
Tgt Ion: 117 Resp: 47978

Ion	Ratio	Lower	Upper
117	100		
82	65.5	55.8	83.6
119	32.0	25.5	38.3

Manual Integrations

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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: 9.545 min Scan# 2922

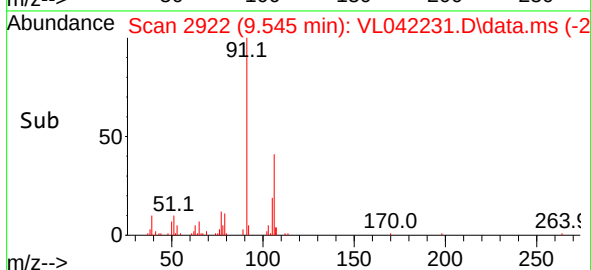
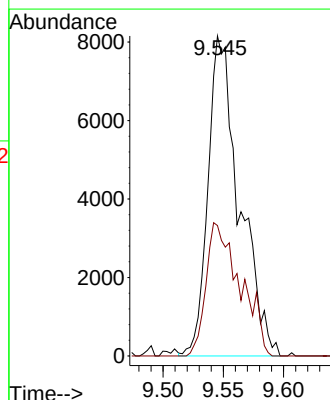
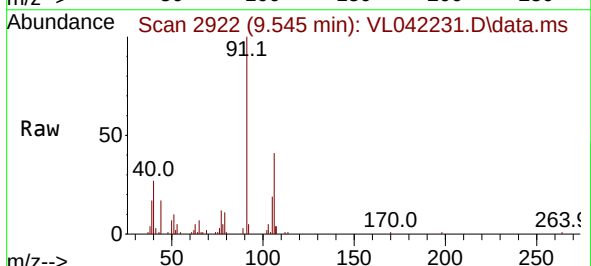
Delta R.T. -0.003 min

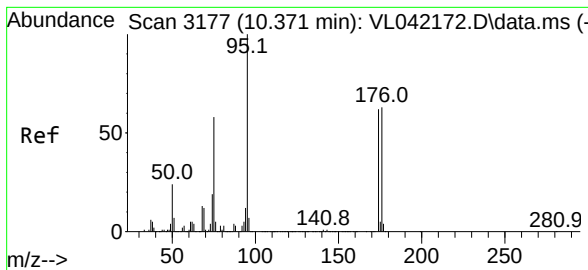
Lab File: VL042231.D

Acq: 07 Apr 2025 12:27

Tgt Ion: 91 Resp: 14796

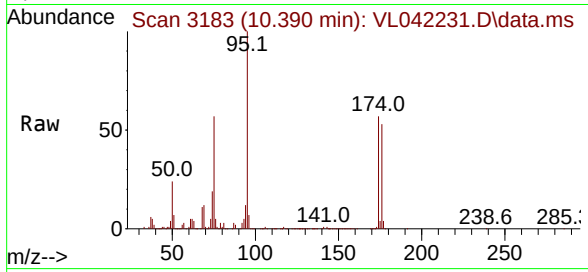
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.4	54.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.674 ppbv
 RT: 10.390 min Scan# 31
 Delta R.T. 0.019 min
 Lab File: VL042231.D
 Acq: 07 Apr 2025 12:27

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-03312025



Tgt Ion: 95 Resp: 381172
 Ion Ratio Lower Upper
 95 100
 174 59.8 50.6 76.0
 175 4.5 3.8 5.6

Manual Integrations
 APPROVED

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

