

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042225.D
 Acq On : 04 Apr 2025 15:50
 Operator : SY/MD
 Sample : Q1691-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:04:37 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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	191637	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	513363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	453956	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	366110	9.821	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11577	0.409	ppbv	94
3) Chlorodifluoromethane	1.473	51	11517m	0.398	ppbv	
4) Chloromethane	1.531	50	9642	0.834	ppbv	93
9) Propene	1.483	41	7226	0.545	ppbv	84
11) Trichlorofluoromethane	1.874	101	5797	0.211	ppbv	95
13) Ethanol	1.719	45	270063	215.627	ppbv	82
15) Acetone	1.835	43	171793	6.410	ppbv	89
19) Isopropyl Alcohol	1.884	45	194930	12.891	ppbv #	32
20) Methylene Chloride	2.062	84	8483	0.850	ppbv	94
26) Hexane	2.823	57	14615	0.544	ppbv #	45
29) Chloroform	2.845	83	29020	0.738	ppbv	92
34) 2-Butanone	2.560	43	13008	0.349	ppbv	93
35) Carbon Tetrachloride	3.761	117	7306	0.182	ppbv	90
36) Benzene	3.658	78	9716	0.191	ppbv #	91
41) Tetrahydrofuran	3.065	42	3457m	0.161	ppbv	
44) 2,2,4-Trimethylpentane	4.629	57	8877m	0.103	ppbv	
52) Tetrachloroethene	8.221	164	6044m	0.299	ppbv	
53) Toluene	6.933	91	20232	0.335	ppbv	99
59) m/p-Xylene	9.529	91	14255	0.221	ppbv	96
61) Styrene	9.866	104	4302m	0.135	ppbv	

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

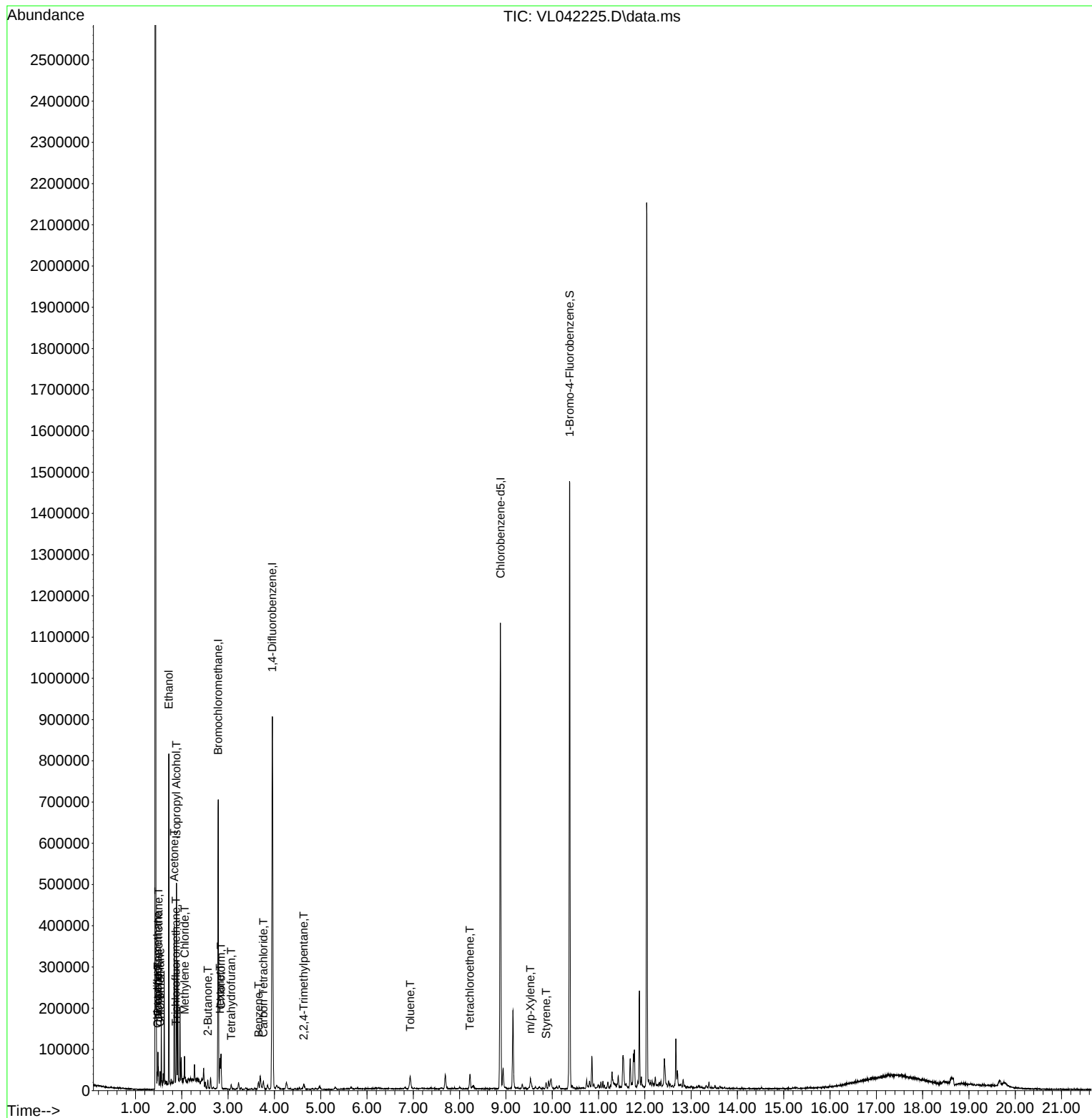
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
Data File : VL042225.D
Acq On : 04 Apr 2025 15:50
Operator : SY/MD
Sample : Q1691-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

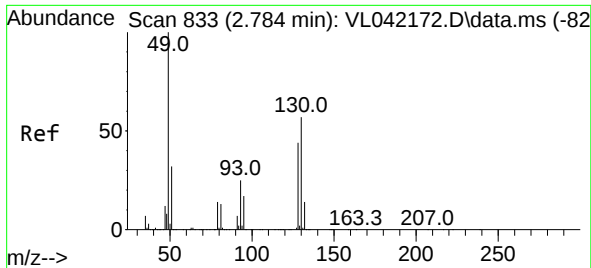
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Quant Time: Apr 05 02:04:37 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

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 04/07/2025
Supervised By : Mahesh Dadoda 04/08/2025





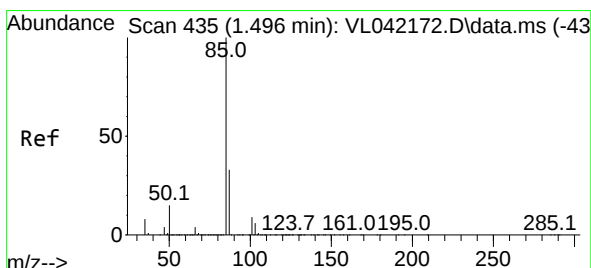
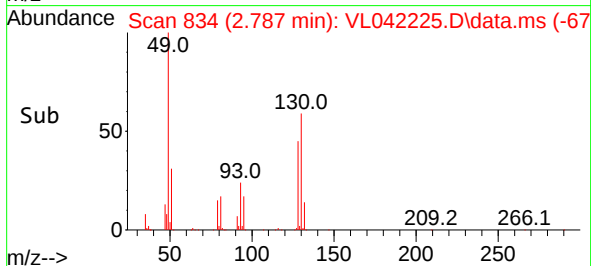
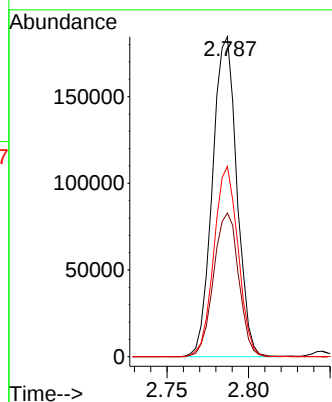
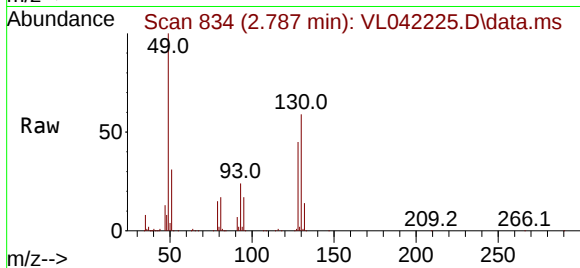
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion: 49 Resp: 19163
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 59.0 28.8 86.4

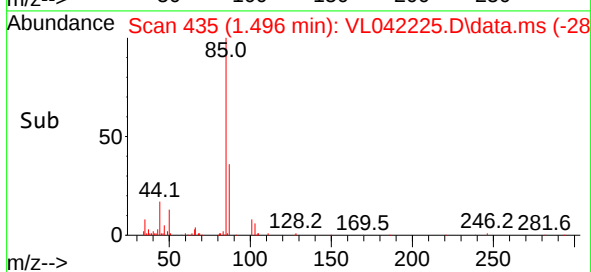
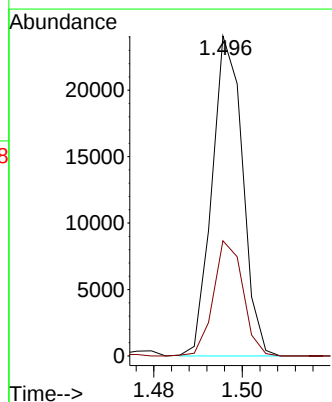
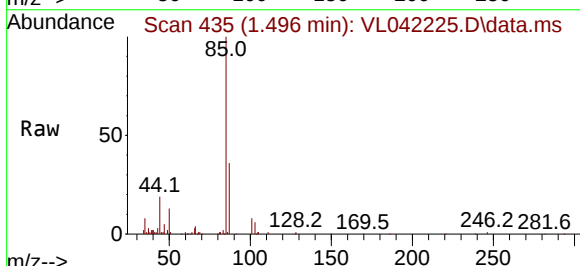
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#2
Dichlorodifluoromethane
Concen: 0.409 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Tgt Ion: 85 Resp: 11577
Ion Ratio Lower Upper
85 100
87 36.0 26.1 39.1





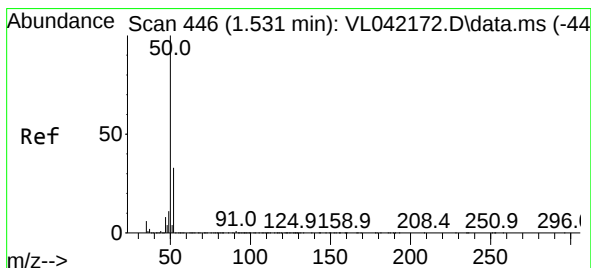
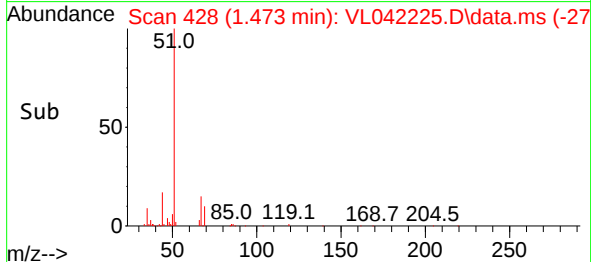
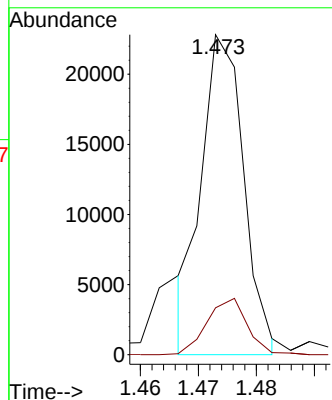
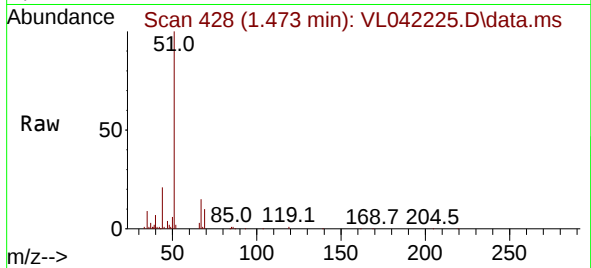
#3
Chlorodifluoromethane
Concen: 0.398 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion: 51 Resp: 1151
Ion Ratio Lower Upper
51 100
67 17.4 15.0 22.6

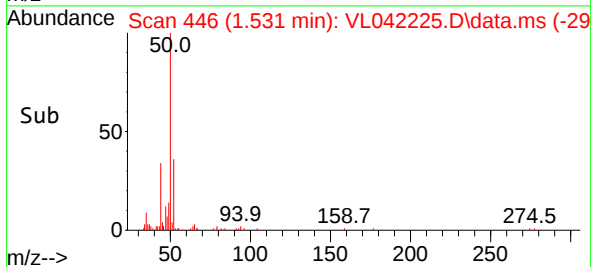
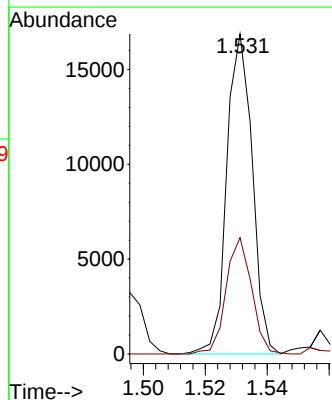
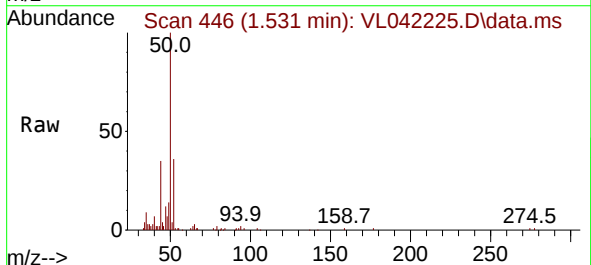
Manual Integrations
APPROVED

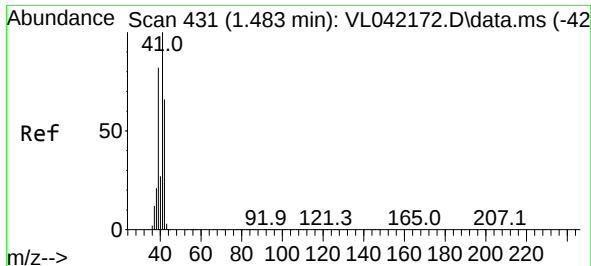
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#4
Chloromethane
Concen: 0.834 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Tgt Ion: 50 Resp: 9642
Ion Ratio Lower Upper
50 100
52 36.4 26.1 39.1





#9

Propene

Concen: 0.545 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042225.D

Acq: 04 Apr 2025 15:50

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

Tgt Ion: 41 Resp: 7220

Ion Ratio Lower Upper

41 100

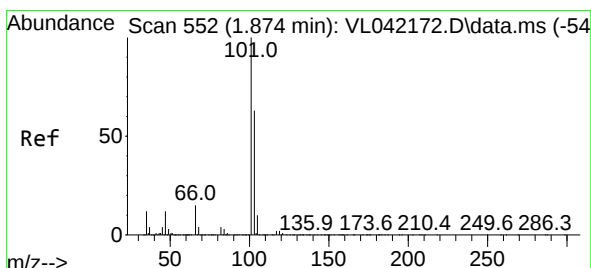
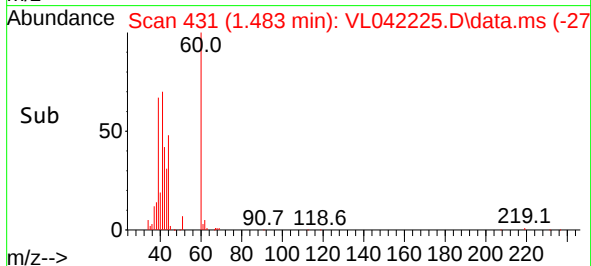
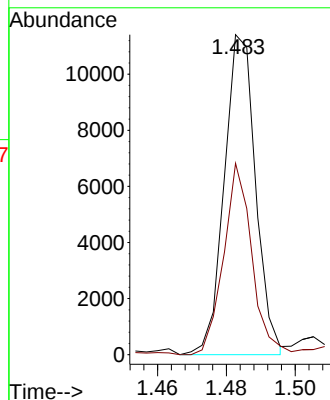
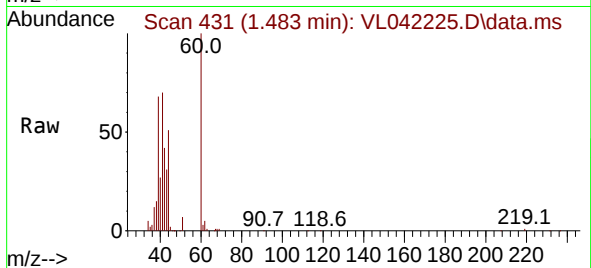
42 56.6 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.211 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042225.D

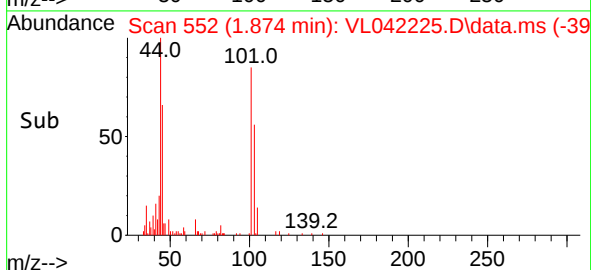
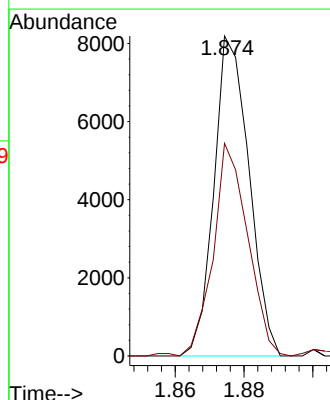
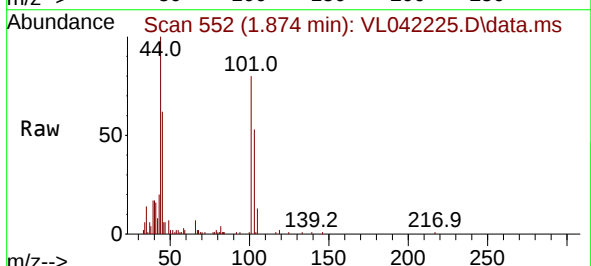
Acq: 04 Apr 2025 15:50

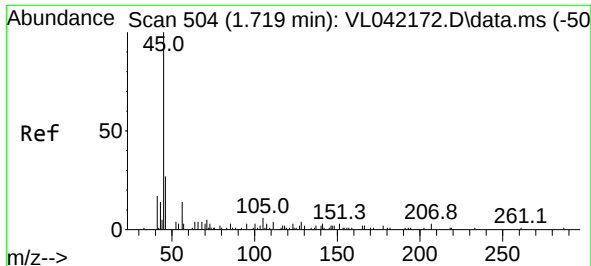
Tgt Ion:101 Resp: 5797

Ion Ratio Lower Upper

101 100

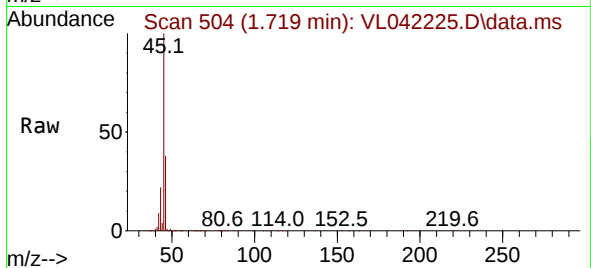
103 66.5 50.2 75.2





#13
Ethanol
Concen: 215.627 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

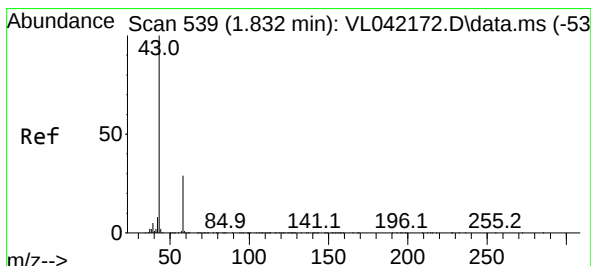
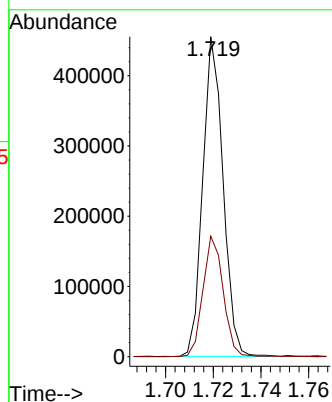
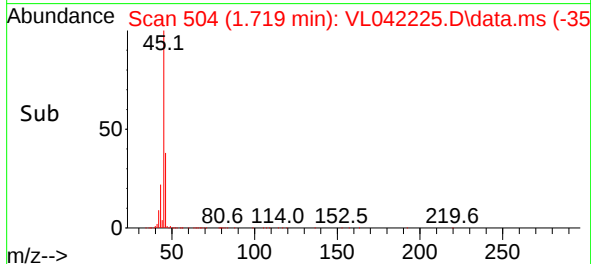
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



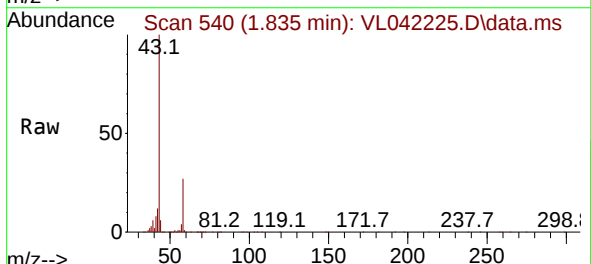
Tgt Ion: 45 Resp: 270063
Ion Ratio Lower Upper
45 100
46 37.7 20.2 80.8

Manual Integrations
APPROVED

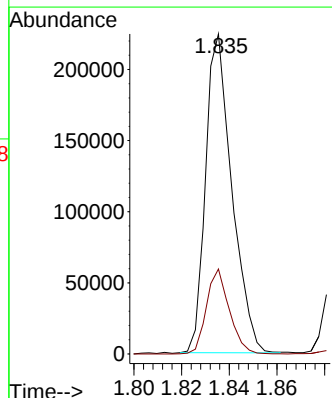
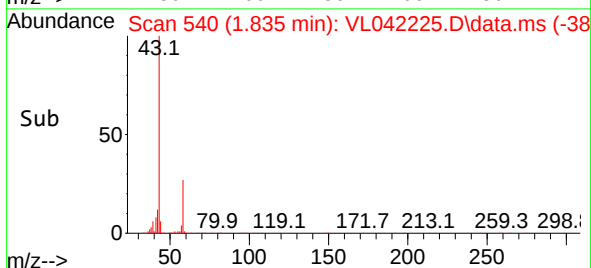
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

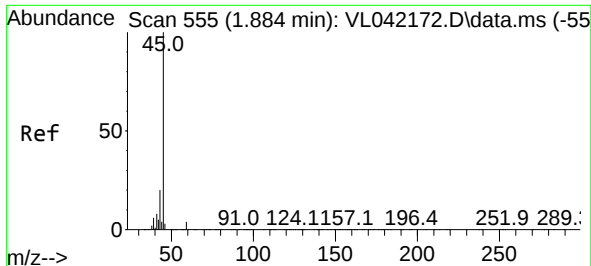


#15
Acetone
Concen: 6.410 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50



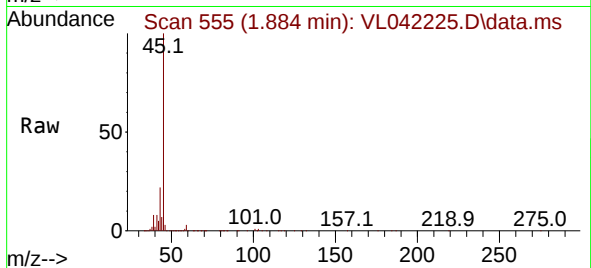
Tgt Ion: 43 Resp: 171793
Ion Ratio Lower Upper
43 100
58 23.3 23.2 34.8





#19
Isopropyl Alcohol
Concen: 12.891 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

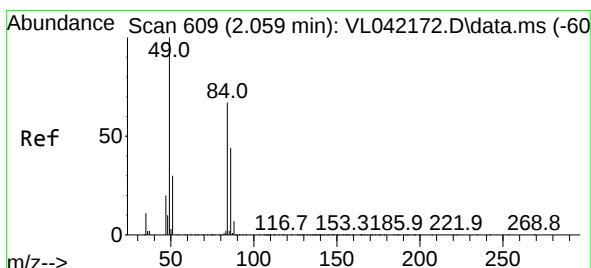
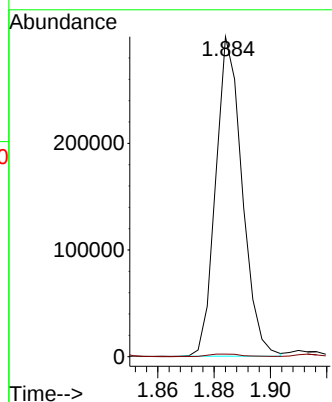
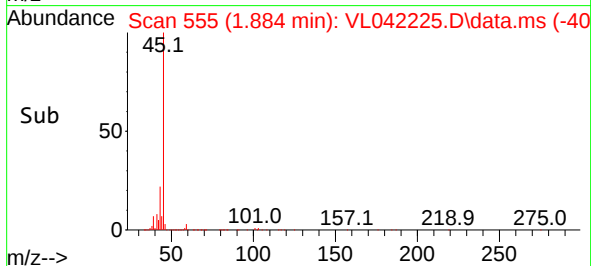
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



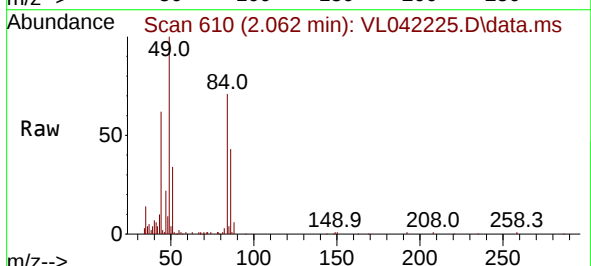
Tgt Ion: 45 Resp: 194930
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3

Manual Integrations
APPROVED

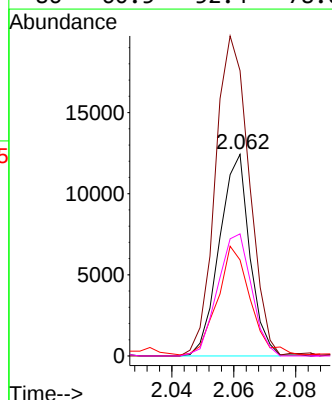
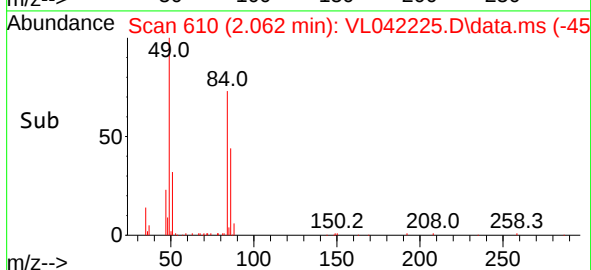
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

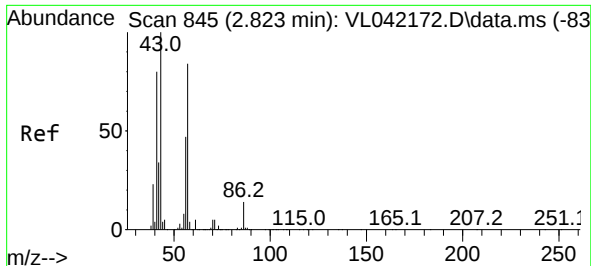


#20
Methylene Chloride
Concen: 0.850 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50



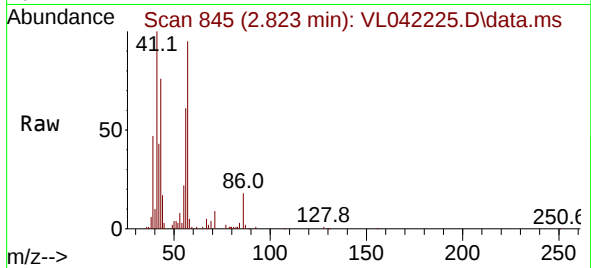
Tgt Ion: 84 Resp: 8483
Ion Ratio Lower Upper
84 100
49 141.5 120.2 180.4
51 47.0 37.4 56.0
86 60.5 52.4 78.6





#26
Hexane
Concen: 0.544 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

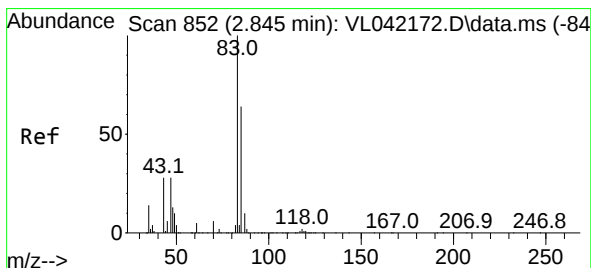
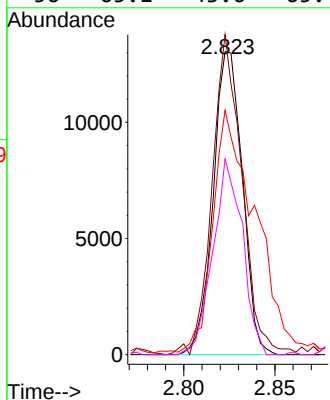
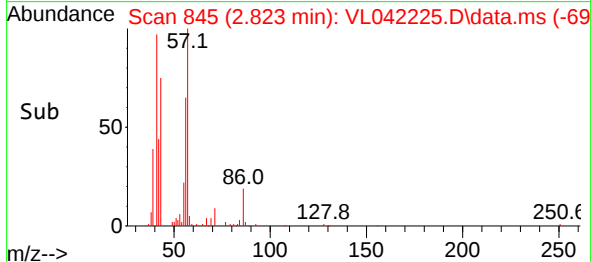
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion: 57 Resp: 14615
Ion Ratio Lower Upper
57 100
41 111.1 76.6 114.8
43 119.2 207.8 311.8
56 65.1 43.6 65.4

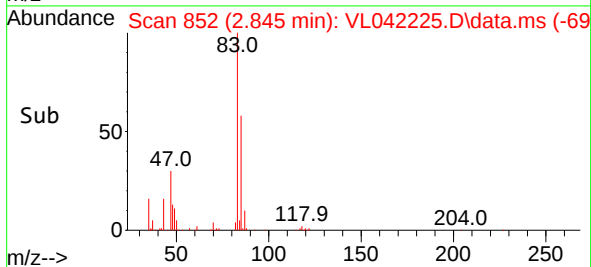
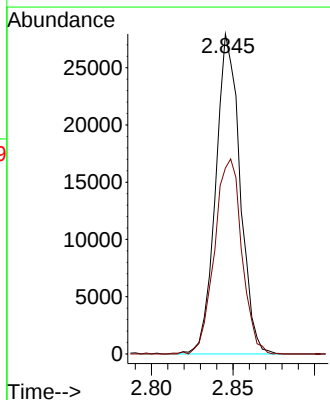
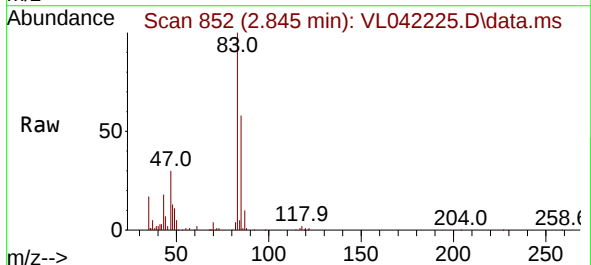
Manual Integrations
APPROVED

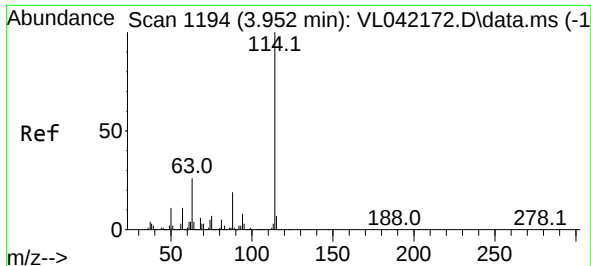
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#29
Chloroform
Concen: 0.738 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Tgt Ion: 83 Resp: 29020
Ion Ratio Lower Upper
83 100
85 57.9 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042225.D

Acq: 04 Apr 2025 15:50

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

Tgt Ion:114 Resp: 51336

Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

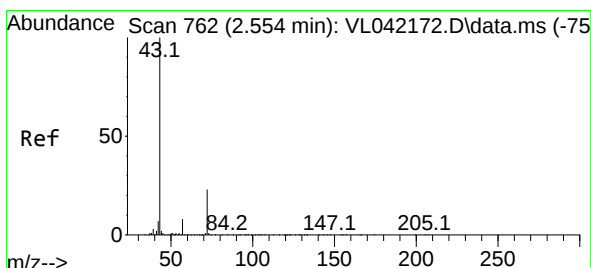
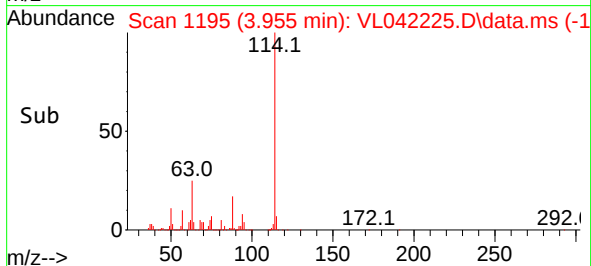
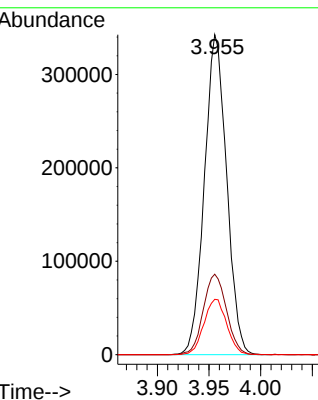
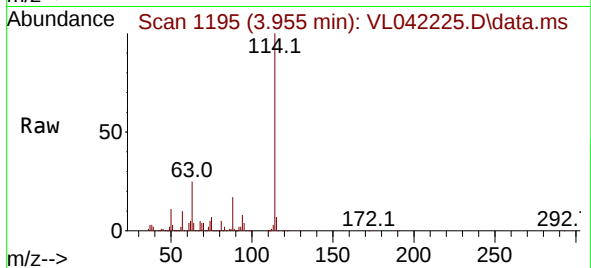
88 17.7 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#34

2-Butanone

Concen: 0.349 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL042225.D

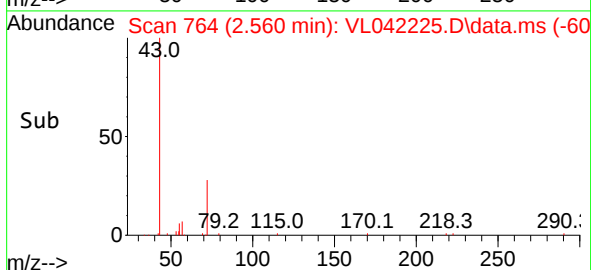
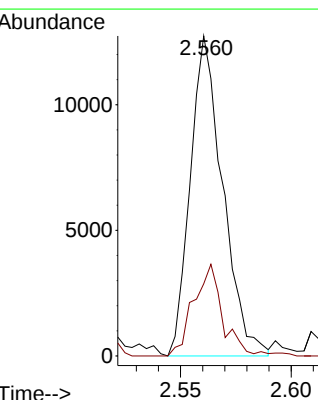
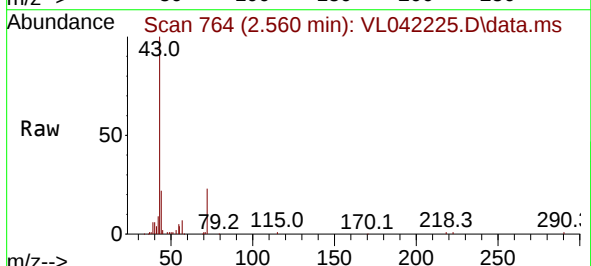
Acq: 04 Apr 2025 15:50

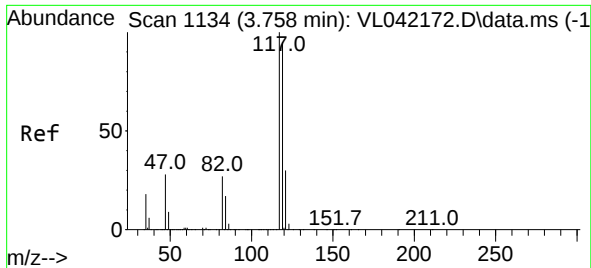
Tgt Ion: 43 Resp: 13008

Ion Ratio Lower Upper

43 100

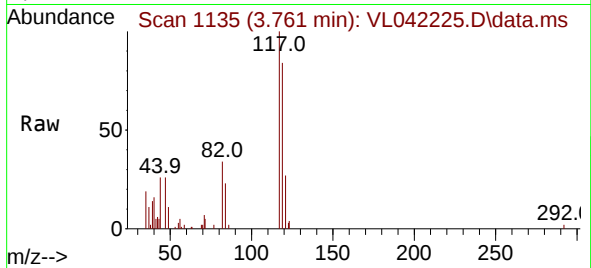
72 26.1 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.182 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

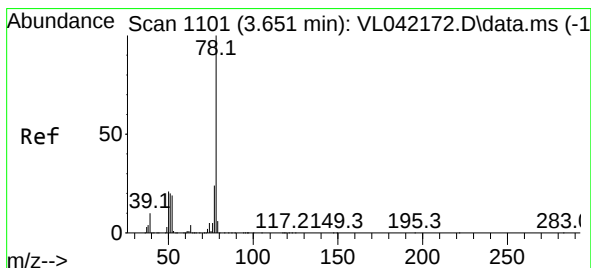
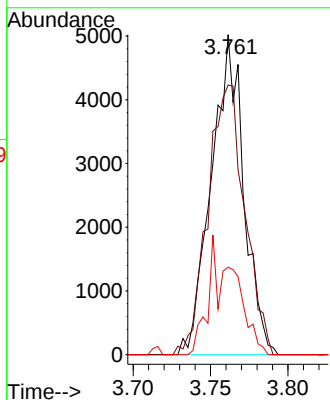
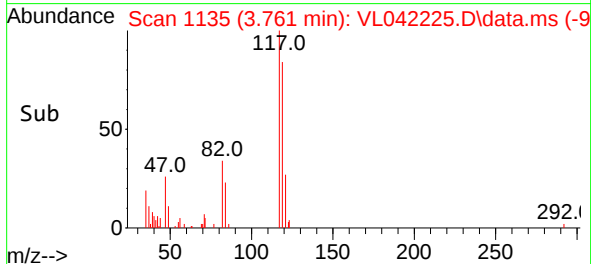
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



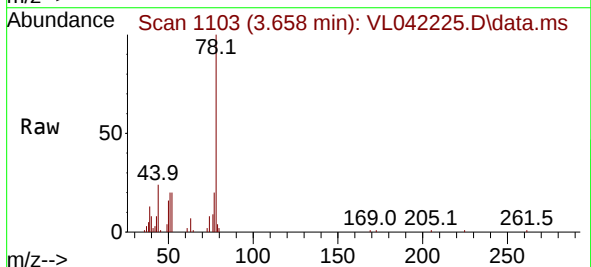
Tgt Ion:117 Resp: 7300
Ion Ratio Lower Upper
117 100
119 84.2 76.2 114.2
121 27.3 24.2 36.4

Manual Integrations
APPROVED

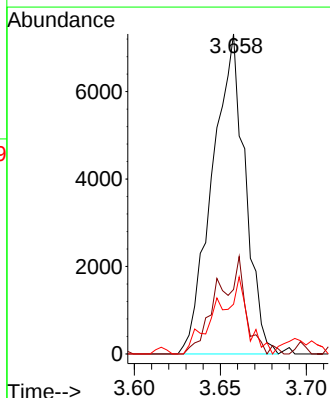
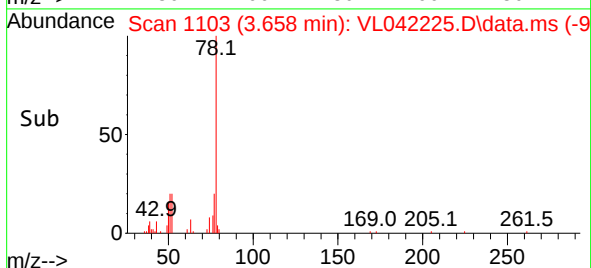
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

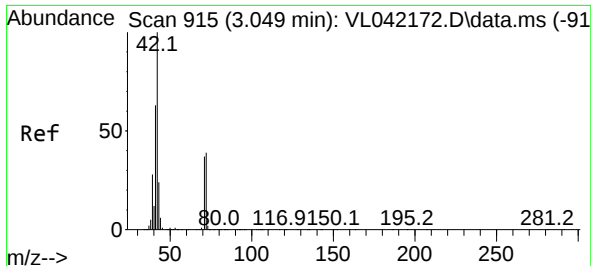


#36
Benzene
Concen: 0.191 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50



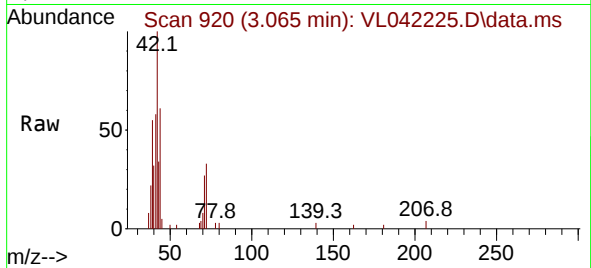
Tgt Ion: 78 Resp: 9716
Ion Ratio Lower Upper
78 100
77 20.1 19.1 28.7
50 15.6 16.6 24.8#





#41
Tetrahydrofuran
Concen: 0.161 ppbv m
RT: 3.065 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

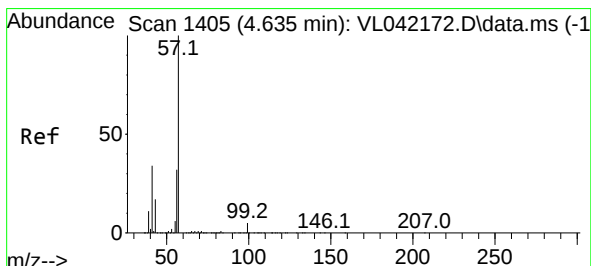
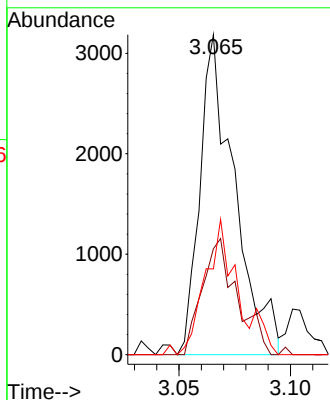
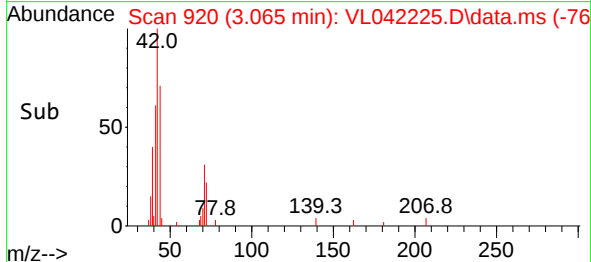
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



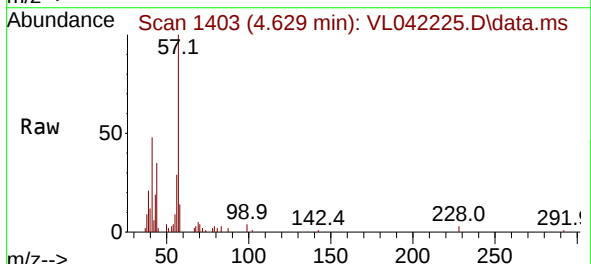
Tgt Ion: 42 Resp: 345
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 30.2 45.4#

Manual Integrations
APPROVED

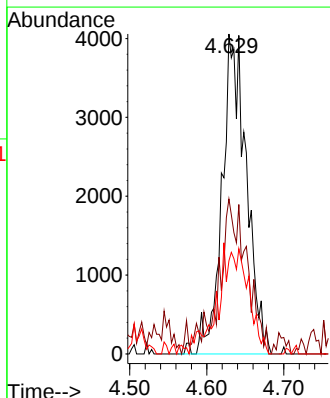
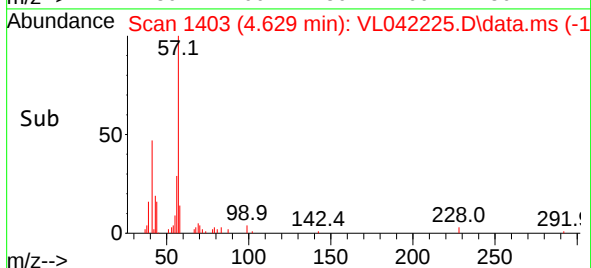
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

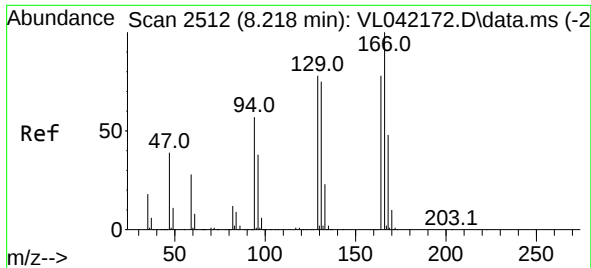


#44
2,2,4-Trimethylpentane
Concen: 0.103 ppbv m
RT: 4.629 min Scan# 1403
Delta R.T. -0.007 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50



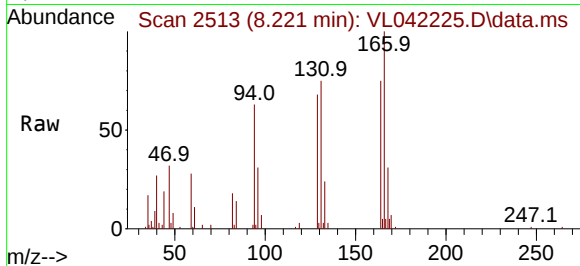
Tgt Ion: 57 Resp: 8877
Ion Ratio Lower Upper
57 100
41 0.0 26.8 40.2#
56 0.0 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.299 ppbv m
RT: 8.221 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

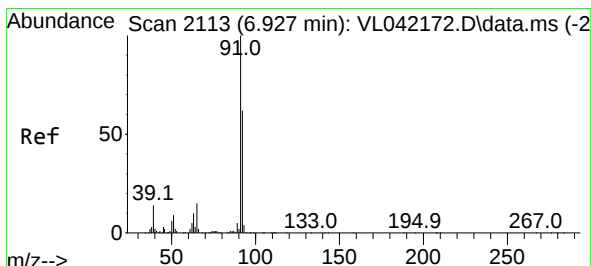
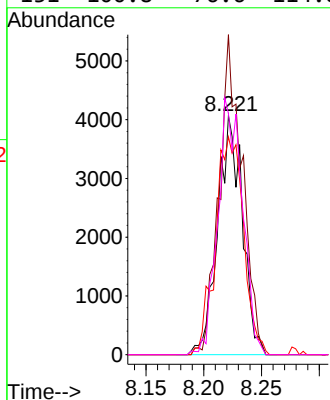
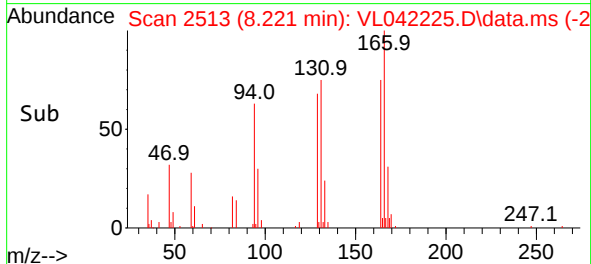
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion:164 Resp: 604
Ion Ratio Lower Upper
164 100
166 133.9 102.5 153.7
129 91.1 79.8 119.8
131 100.8 76.6 114.8

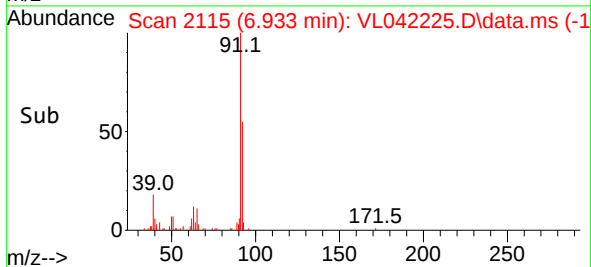
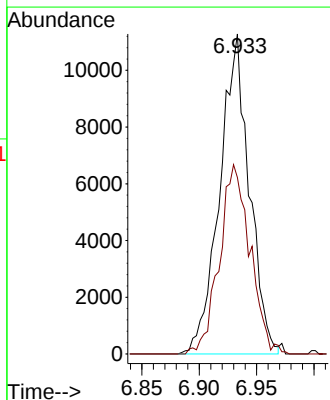
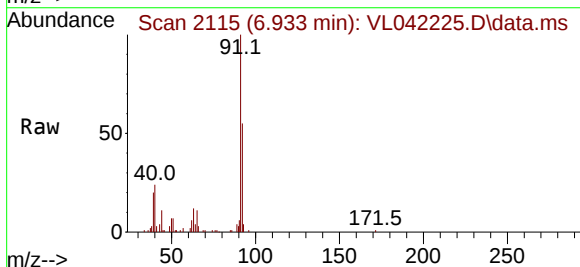
Manual Integrations
APPROVED

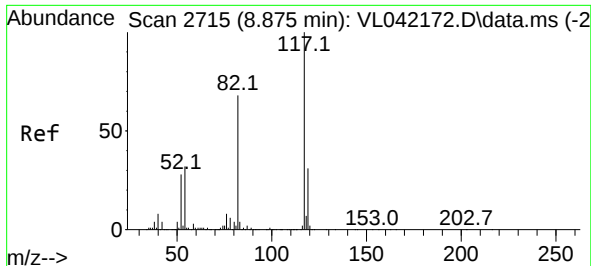
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#53
Toluene
Concen: 0.335 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

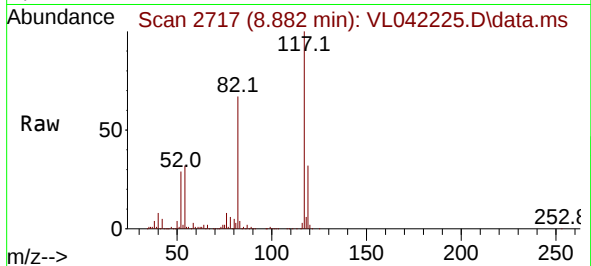
Tgt Ion: 91 Resp: 20232
Ion Ratio Lower Upper
91 100
92 61.2 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2175
Delta R.T. 0.006 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

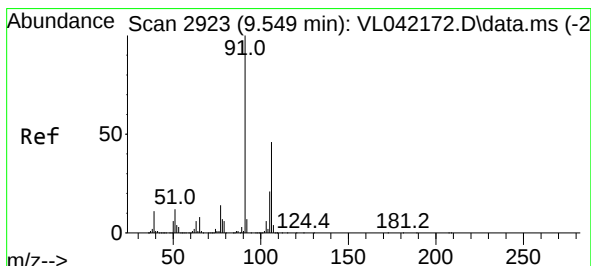
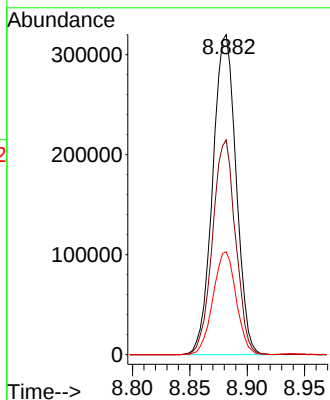
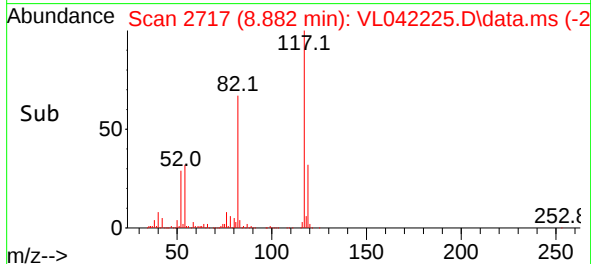
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion:117 Resp: 453950
Ion Ratio Lower Upper
117 100
82 66.1 55.8 83.6
119 31.9 25.5 38.3

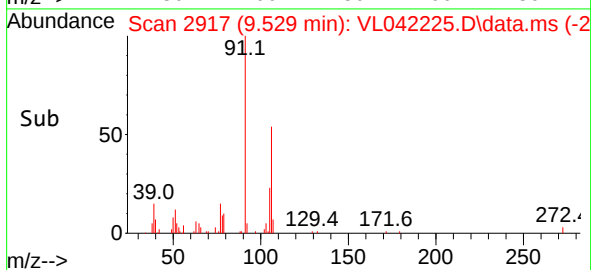
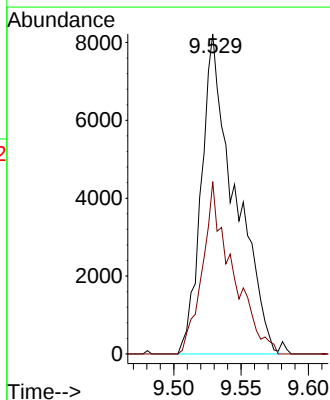
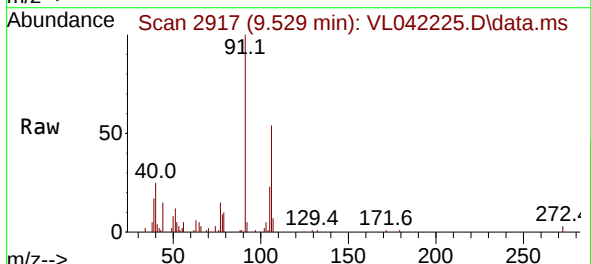
Manual Integrations
APPROVED

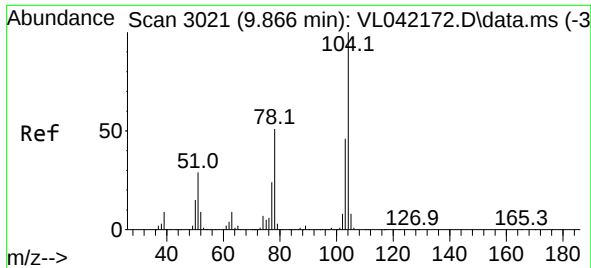
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#59
m/p-Xylene
Concen: 0.221 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.020 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Tgt Ion: 91 Resp: 14255
Ion Ratio Lower Upper
91 100
106 48.1 36.4 54.6





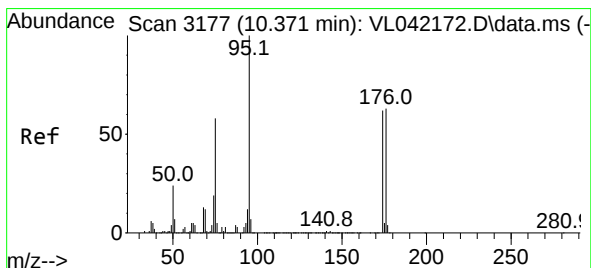
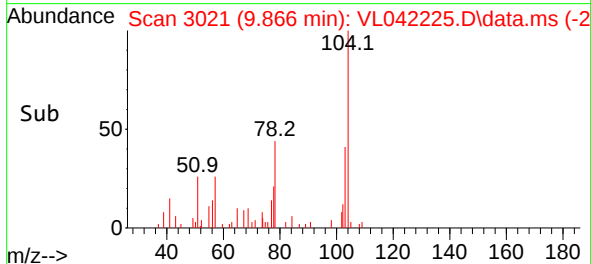
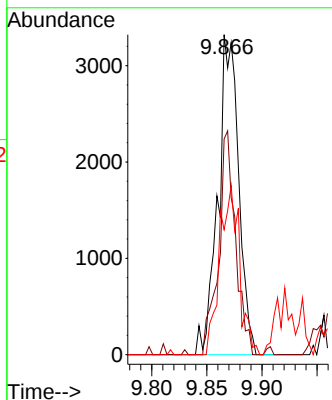
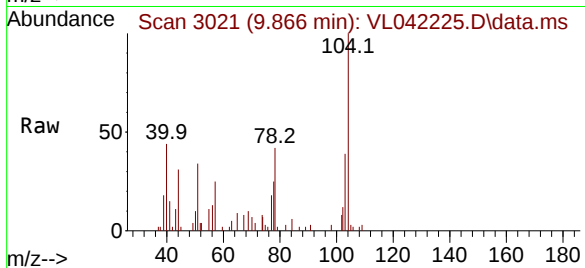
#61
Styrene
Concen: 0.135 ppbv m
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion:104 Resp: 4302
Ion Ratio Lower Upper
104 100
78 58.2 41.8 62.6
103 51.2 37.0 55.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.821 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Tgt Ion: 95 Resp: 366110
Ion Ratio Lower Upper
95 100
174 60.1 50.6 76.0
175 4.4 3.8 5.6

