

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043226.D
 Acq On : 18 Nov 2025 22:37
 Operator : SY/MD
 Sample : Q3650-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:41:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	101095	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	261880	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	206328	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	157815	10.435	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1823	0.128	ppbv	94
9) Propene	1.483	41	7066	1.187	ppbv #	1
10) Heptane	4.982	43	7732m	0.436	ppbv	
13) Ethanol	1.722	45	5393	2.576	ppbv #	38
15) Acetone	1.839	43	95505	6.800	ppbv	100
19) Isopropyl Alcohol	1.887	45	5663	0.714	ppbv #	1
20) Methylene Chloride	2.069	84	4456	0.317	ppbv #	73
26) Hexane	2.829	57	34356	2.587	ppbv #	43
29) Chloroform	2.855	83	7704	0.408	ppbv	96
30) Cyclohexane	3.862	84	1993m	0.179	ppbv	
34) 2-Butanone	2.561	43	2944m	0.159	ppbv	
36) Benzene	3.658	78	7571	0.302	ppbv #	94
52) Tetrachloroethene	8.221	164	1036m	0.111	ppbv	
53) Toluene	6.927	91	17606m	0.593	ppbv	
58) Ethyl Benzene	9.354	91	5050m	0.127	ppbv	
59) m/p-Xylene	9.526	91	11875m	0.373	ppbv	
60) o-Xylene	9.960	91	4685	0.147	ppbv	97

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

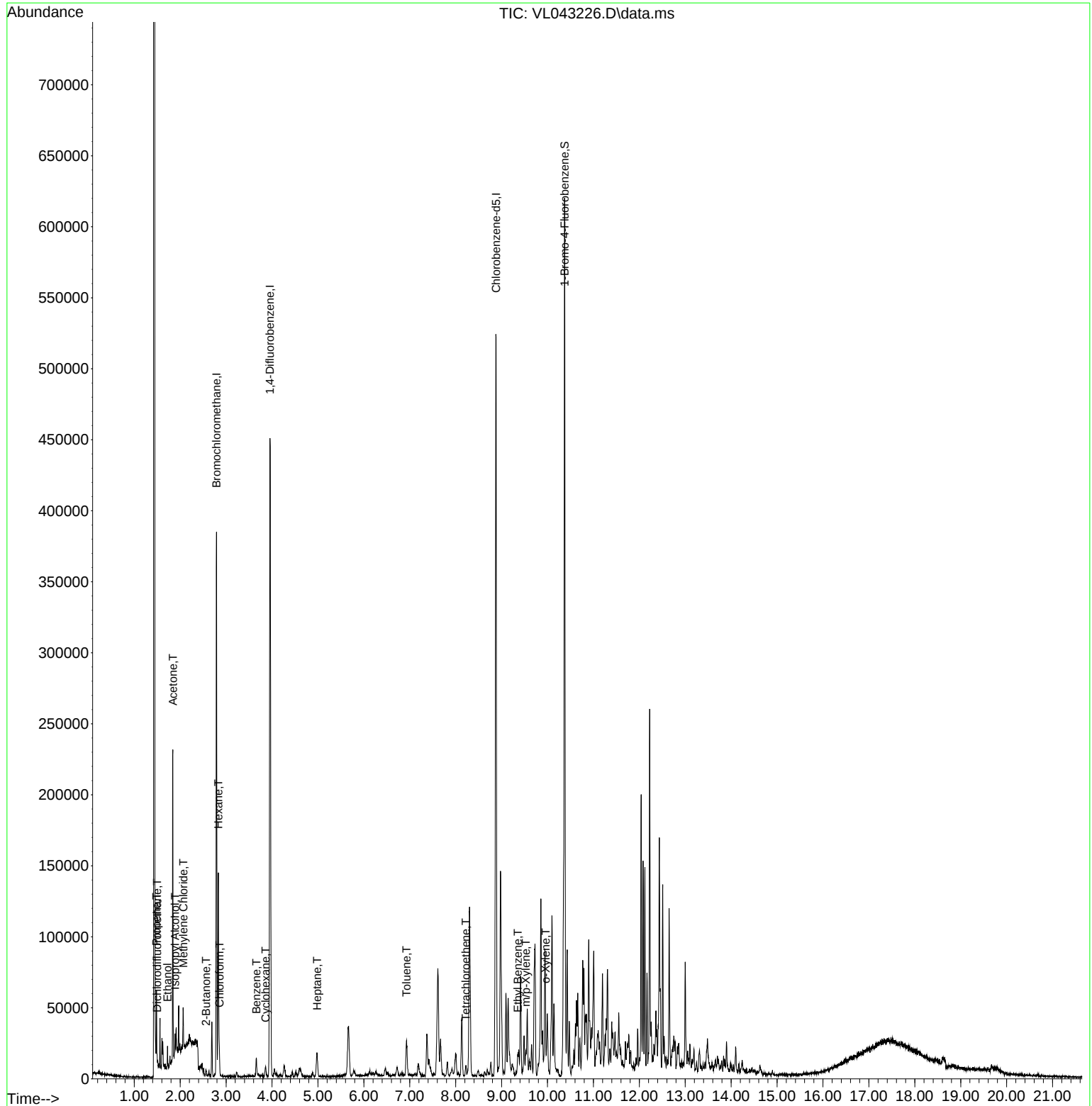
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043226.D
Acq On : 18 Nov 2025 22:37
Operator : SY/MD
Sample : Q3650-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

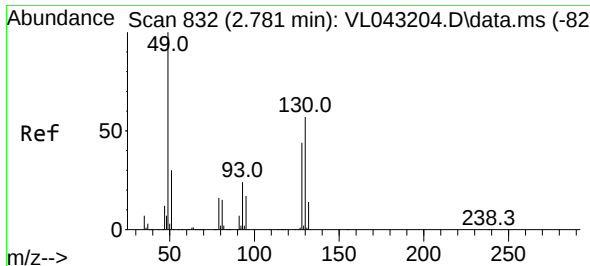
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Nov 19 01:41:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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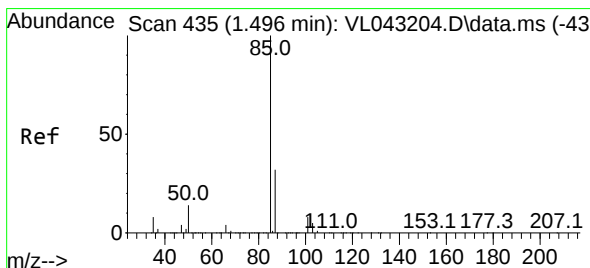
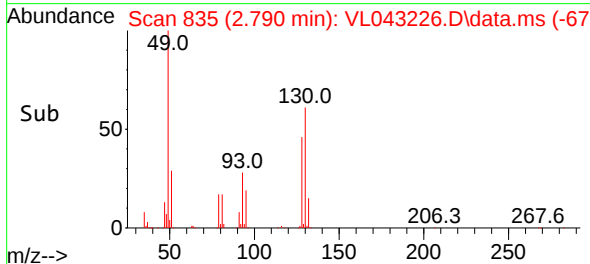
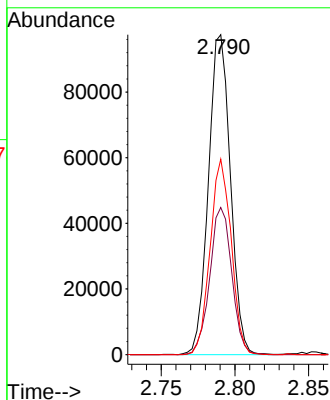
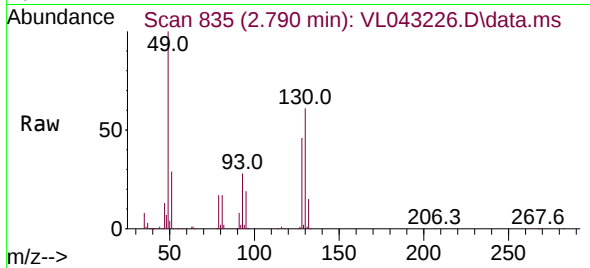
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 832
Delta R.T. 0.009 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 101095
Ion Ratio Lower Upper
49 100
128 45.9 23.0 69.0
130 58.4 29.9 89.7

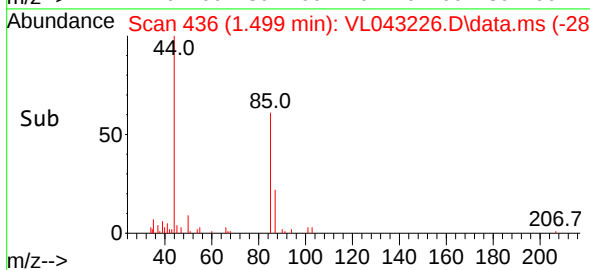
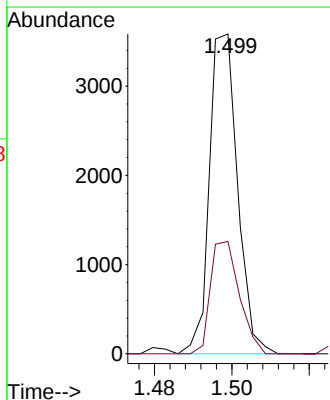
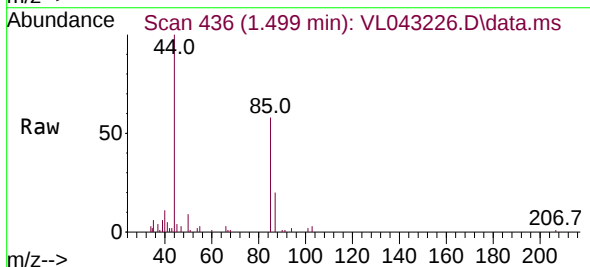
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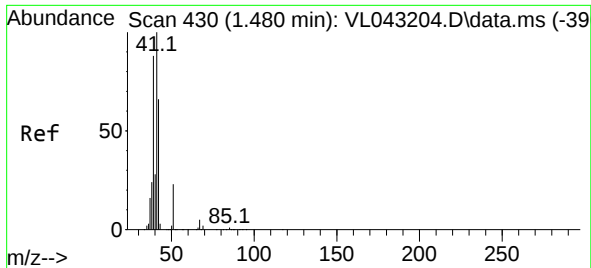
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.128 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Tgt Ion: 85 Resp: 1823
Ion Ratio Lower Upper
85 100
87 35.1 25.4 38.2





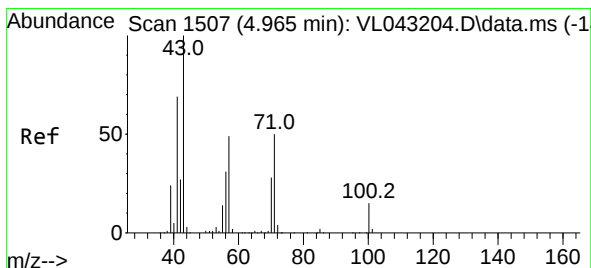
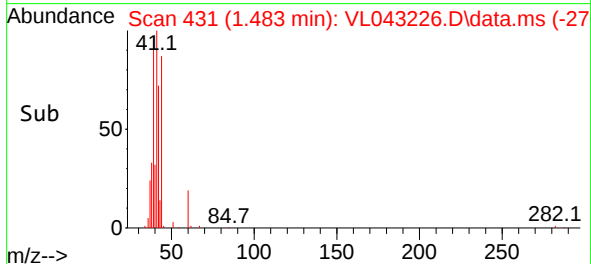
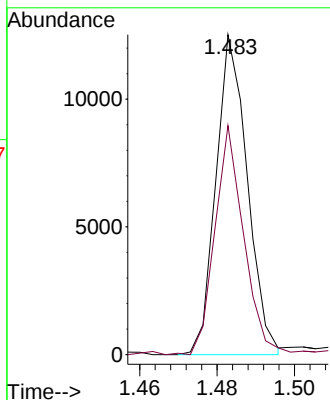
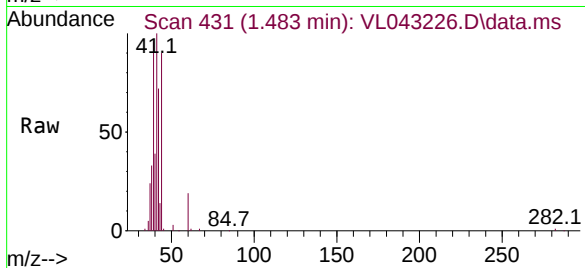
#9
Propene
Concen: 1.187 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 41 Resp: 7066
Ion Ratio Lower Upper
41 100
42 69.1 3.7 5.5

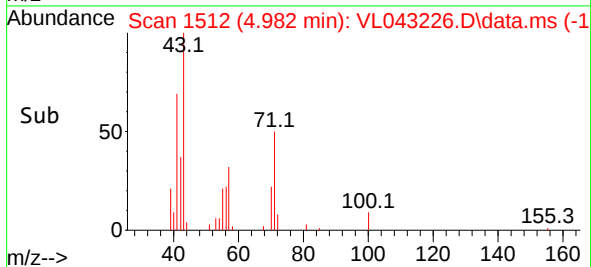
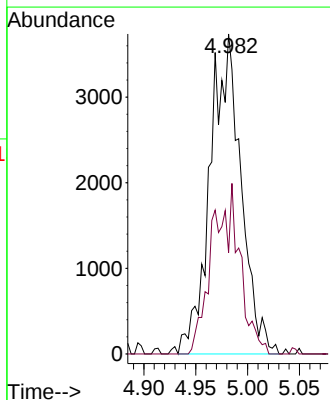
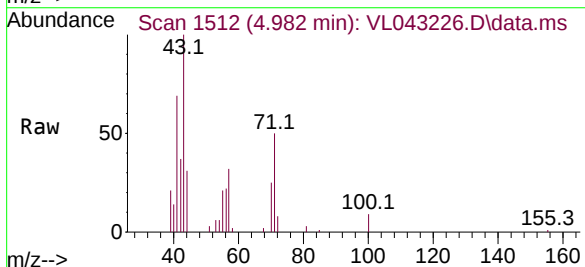
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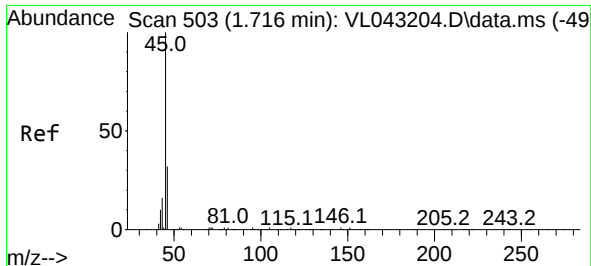
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#10
Heptane
Concen: 0.436 ppbv m
RT: 4.982 min Scan# 1512
Delta R.T. 0.016 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Tgt Ion: 43 Resp: 7732
Ion Ratio Lower Upper
43 100
57 47.5 39.7 59.5





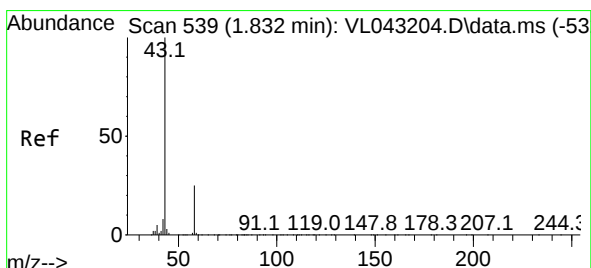
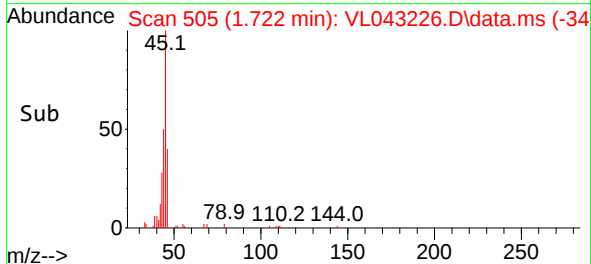
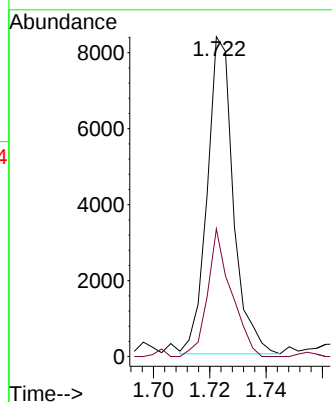
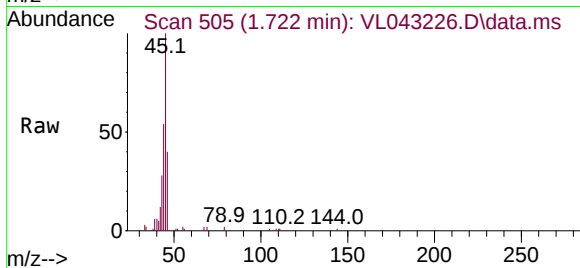
#13
Ethanol
Concen: 2.576 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 5393
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

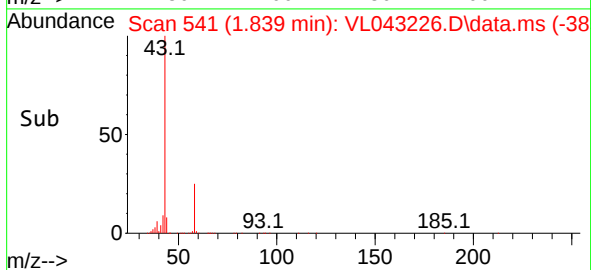
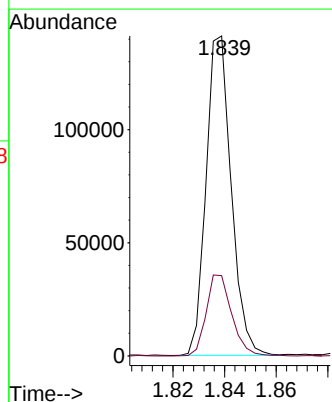
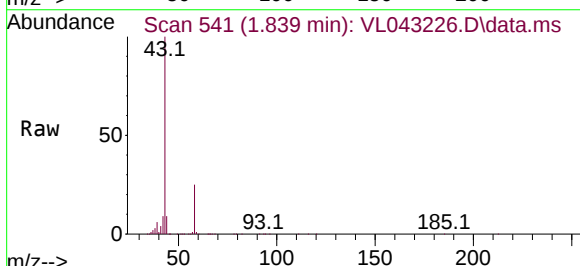
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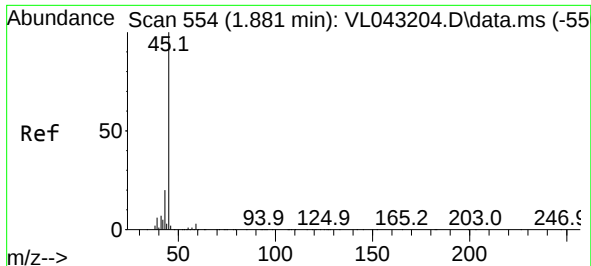
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 6.800 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Tgt Ion: 43 Resp: 95505
Ion Ratio Lower Upper
43 100
58 26.0 20.7 31.1





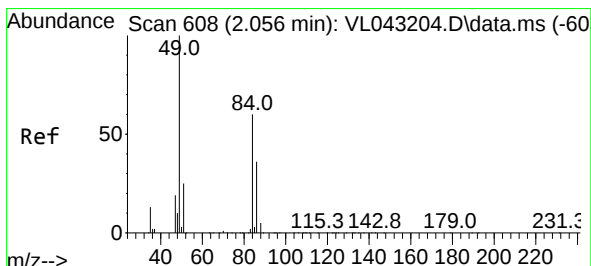
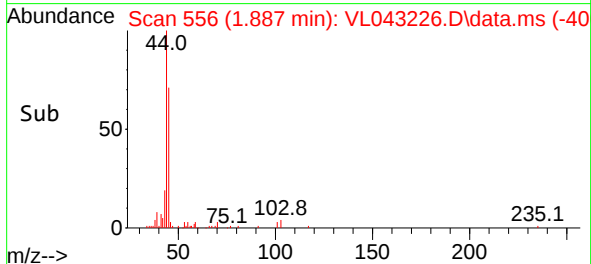
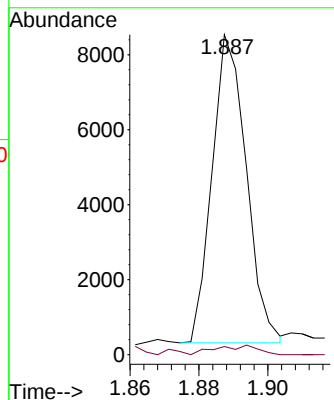
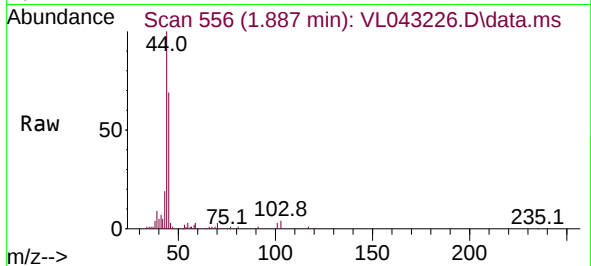
#19
Isopropyl Alcohol
Concen: 0.714 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 5663
Ion Ratio Lower Upper
45 100
58 438.4 31.3 46.9#

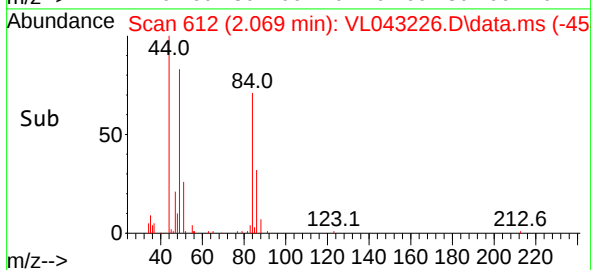
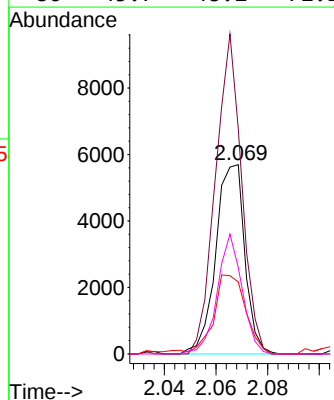
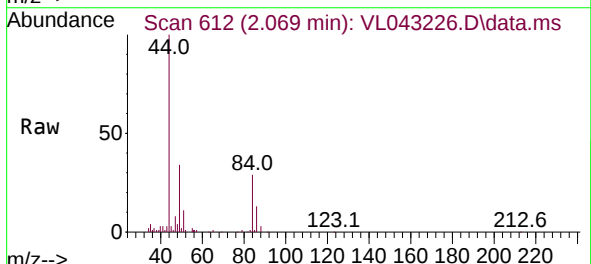
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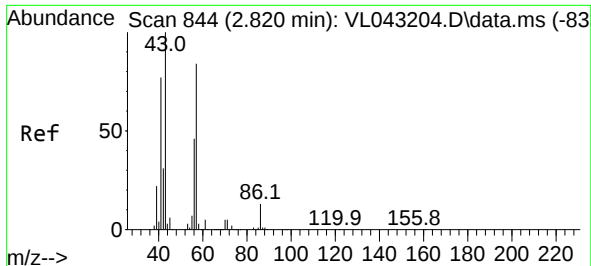
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 0.317 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.013 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

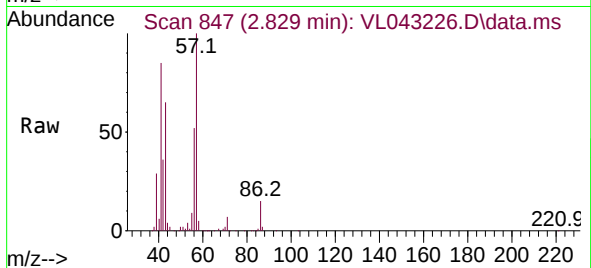
Tgt Ion: 84 Resp: 4456
Ion Ratio Lower Upper
84 100
49 119.0 132.9 199.3#
51 38.0 34.8 52.2
86 45.7 48.2 72.2#





#26
Hexane
Concen: 2.587 ppbv
RT: 2.829 min Scan# 844
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

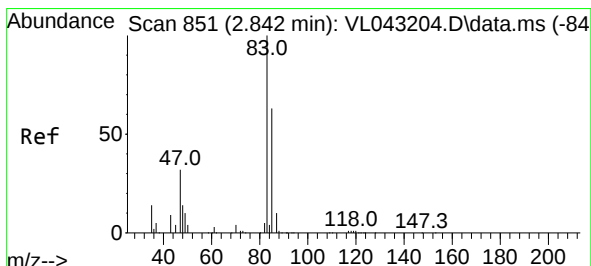
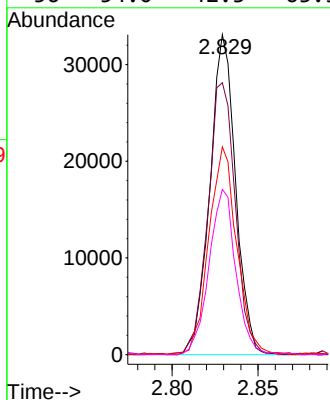
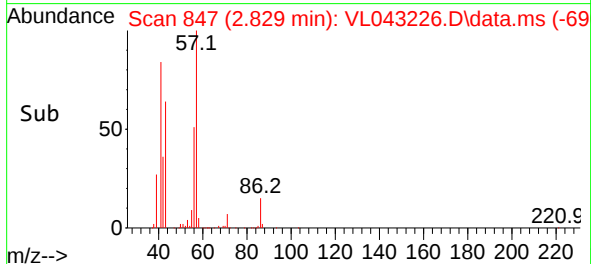
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 34356
Ion Ratio Lower Upper
57 100
41 91.6 74.6 111.8
43 71.5 179.0 268.4
56 54.0 42.3 63.5

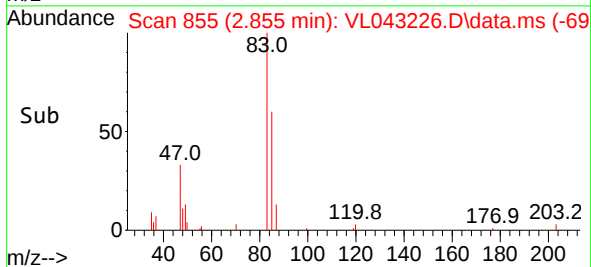
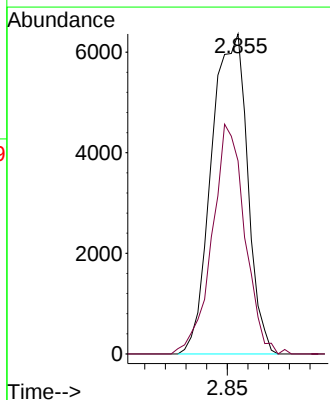
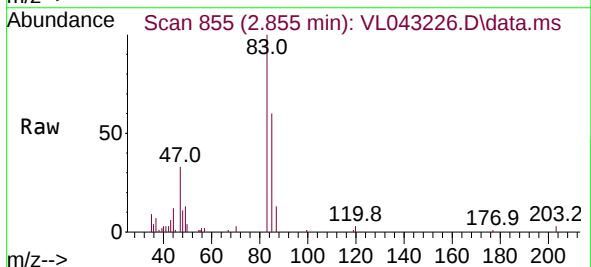
Manual Integrations
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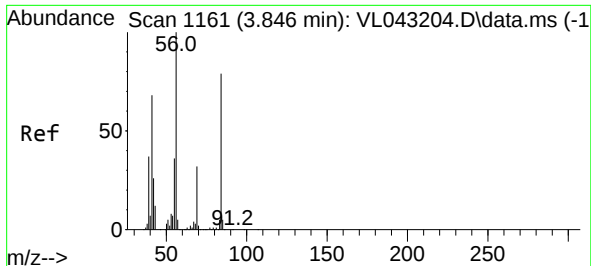
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#29
Chloroform
Concen: 0.408 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.013 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

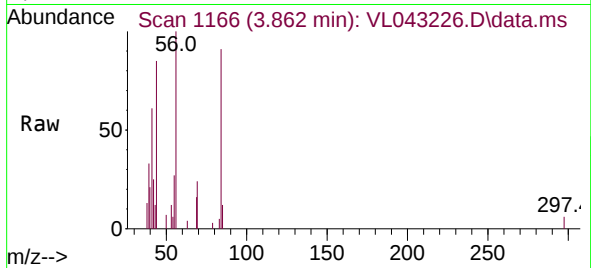
Tgt Ion: 83 Resp: 7704
Ion Ratio Lower Upper
83 100
85 60.3 50.5 75.7





#30
Cyclohexane
Concen: 0.179 ppbv m
RT: 3.862 min Scan# 1161
Delta R.T. 0.016 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

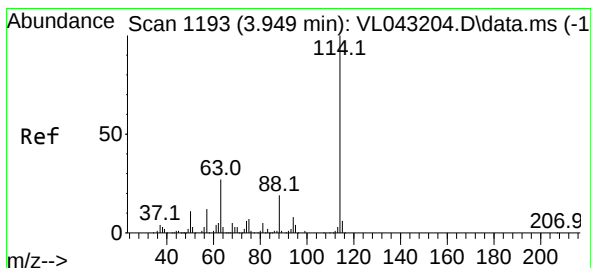
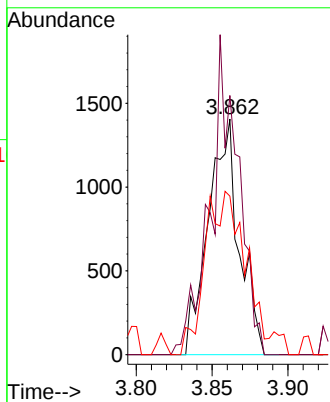
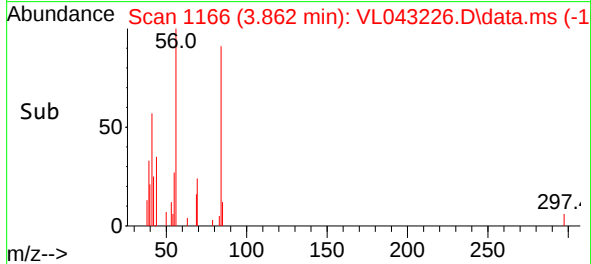
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 1993
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1
41 98.5 69.0 103.6

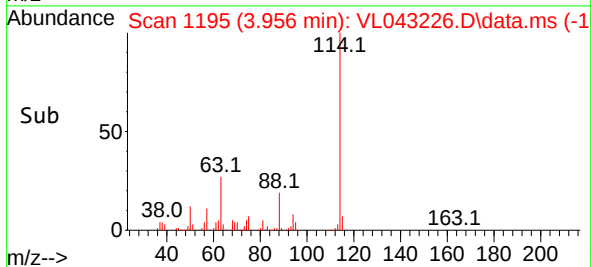
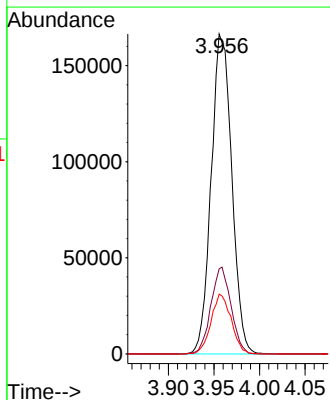
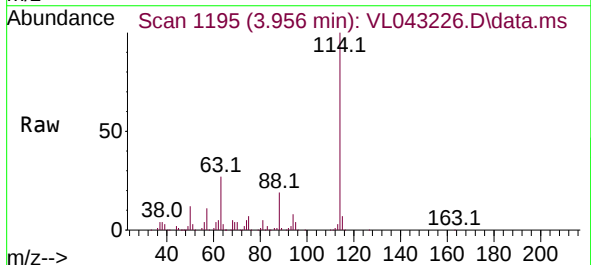
Manual Integrations
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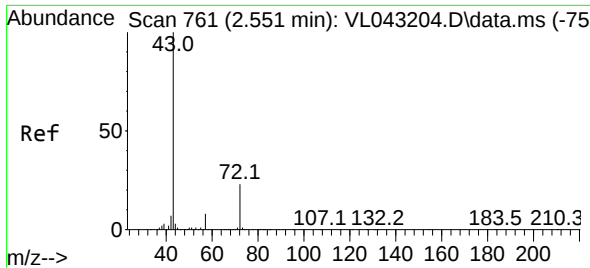
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

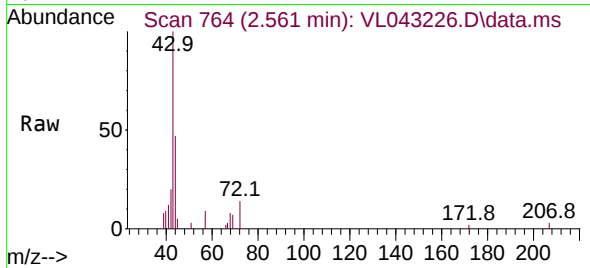
Tgt Ion:114 Resp: 261880
Ion Ratio Lower Upper
114 100
63 26.4 21.0 31.6
88 18.2 14.9 22.3





#34
2-Butanone
Concen: 0.159 ppbv m
RT: 2.561 min Scan# 761
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

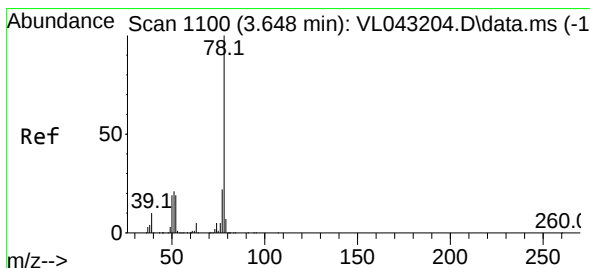
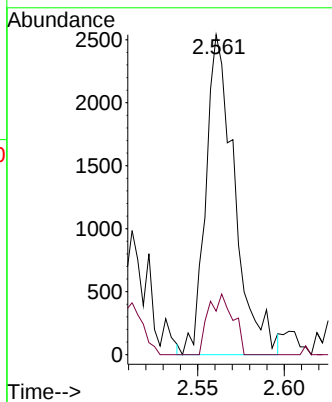
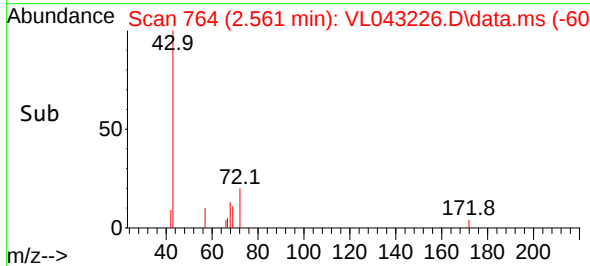
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 2944
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1

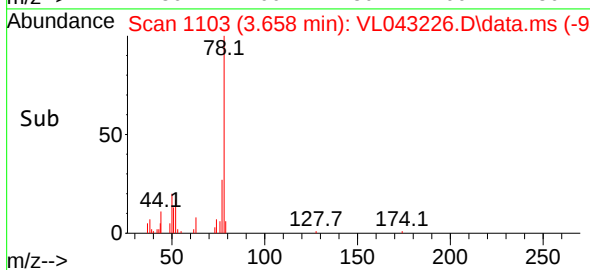
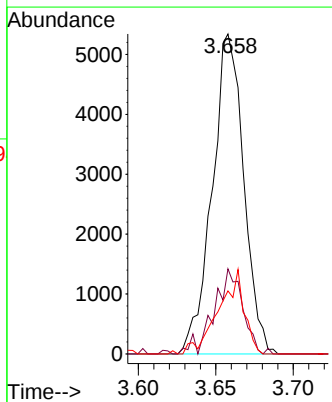
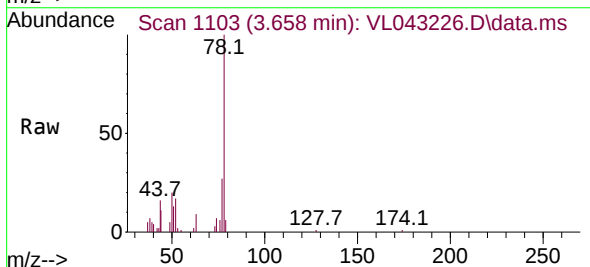
Manual Integrations
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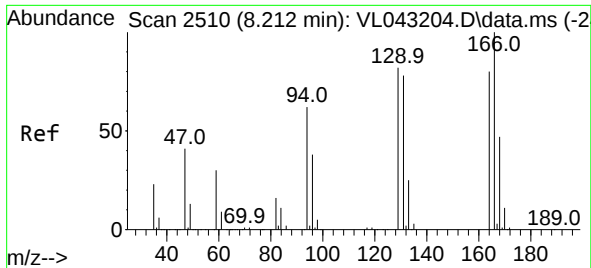
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36
Benzene
Concen: 0.302 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

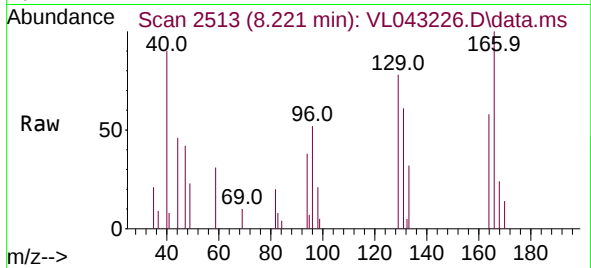
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Ion Ratio Lower Upper
78 100
77 26.6 17.5 26.3
50 19.7 15.5 23.3





#52
Tetrachloroethene
Concen: 0.111 ppbv m
RT: 8.221 min Scan# 2510
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

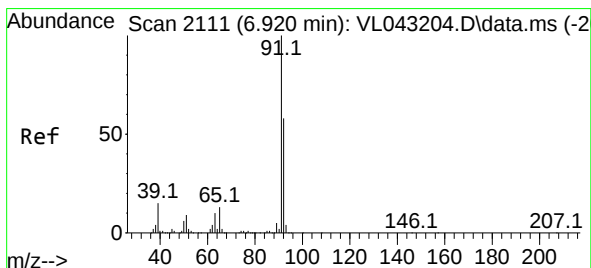
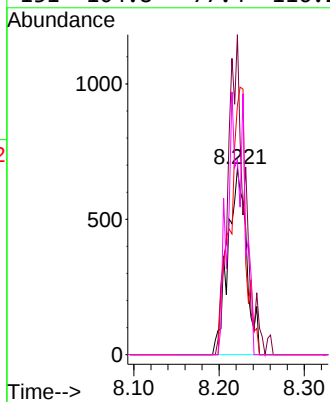
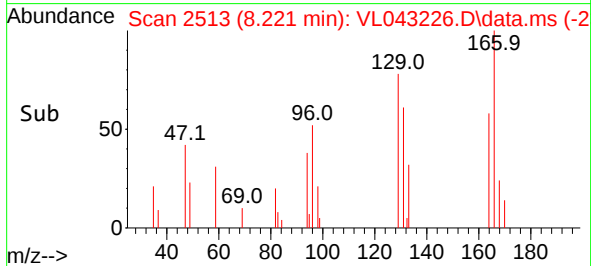
Instrument :
MSVOA_L
ClientSampleId :
SV2



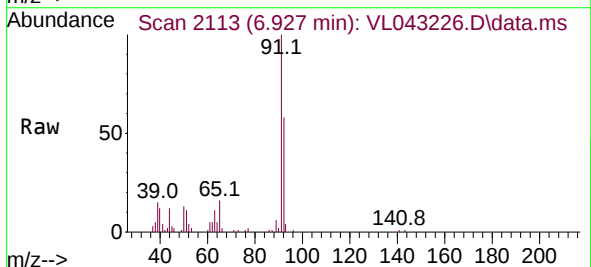
Tgt Ion:164 Resp: 1036
Ion Ratio Lower Upper
164 100
166 172.3 99.4 149.2
129 134.1 81.8 122.8
131 104.8 77.4 116.2

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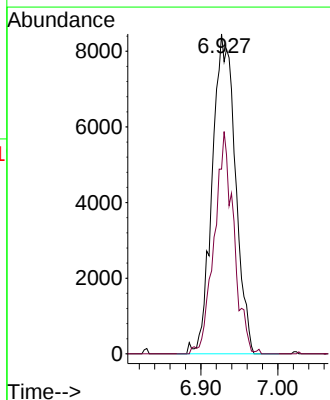
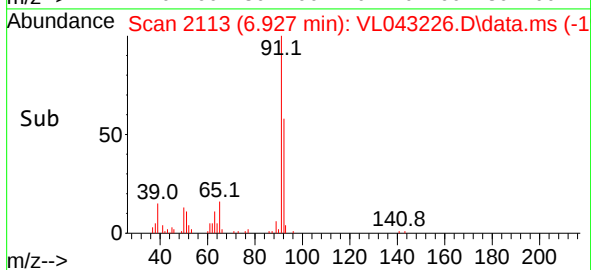
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

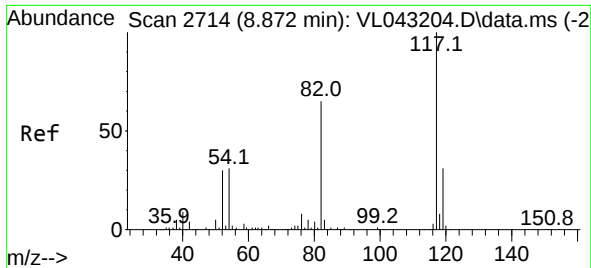


#53
Toluene
Concen: 0.593 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37



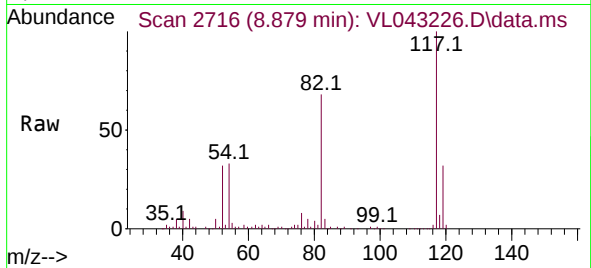
Tgt Ion: 91 Resp: 17606
Ion Ratio Lower Upper
91 100
92 58.9 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

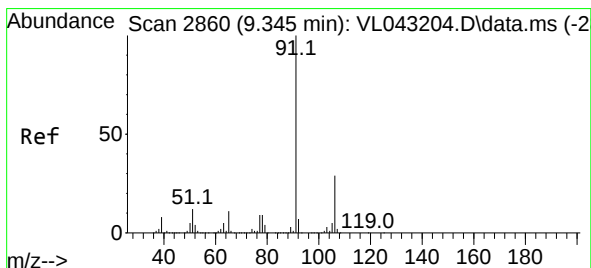
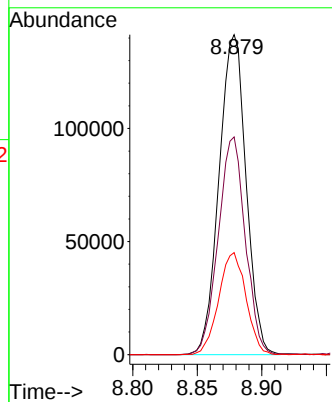
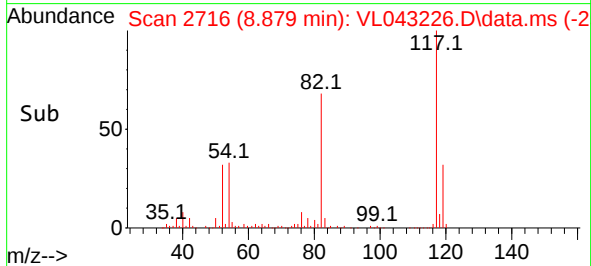
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:117 Resp: 206328
Ion Ratio Lower Upper
117 100
82 68.1 56.1 84.1
119 32.2 25.0 37.6

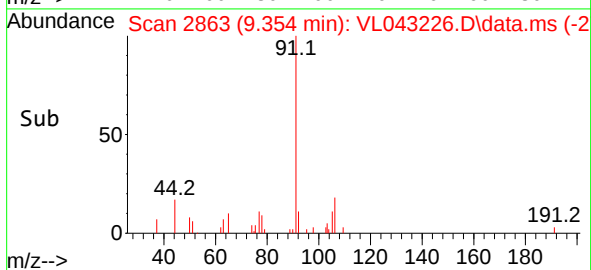
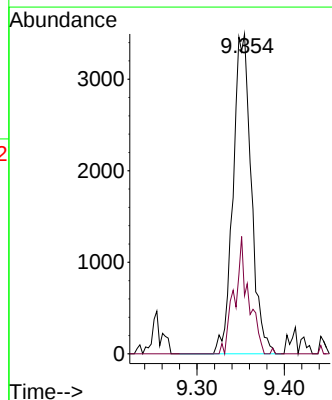
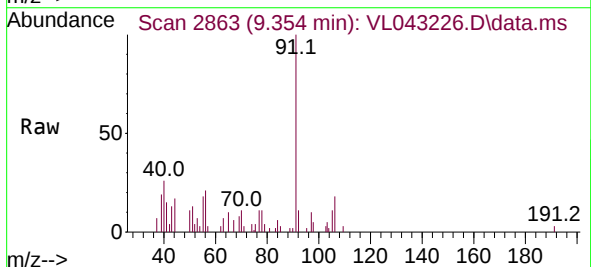
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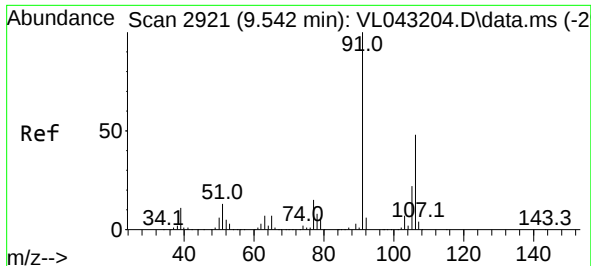
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.127 ppbv m
RT: 9.354 min Scan# 2863
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Tgt Ion: 91 Resp: 5050
Ion Ratio Lower Upper
91 100
106 18.2 22.8 34.2#





#59

m/p-Xylene

Concen: 0.373 ppbv m

RT: 9.526 min Scan# 29

Delta R.T. -0.016 min

Lab File: VL043226.D

Acq: 18 Nov 2025 22:37

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 91 Resp: 11875

Ion Ratio Lower Upper

91 100

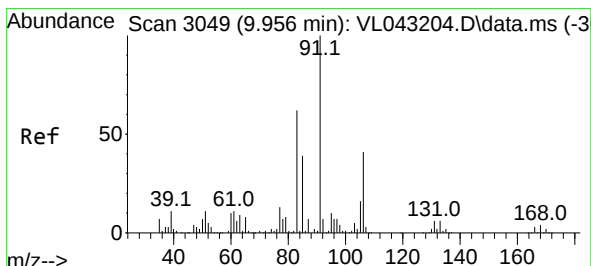
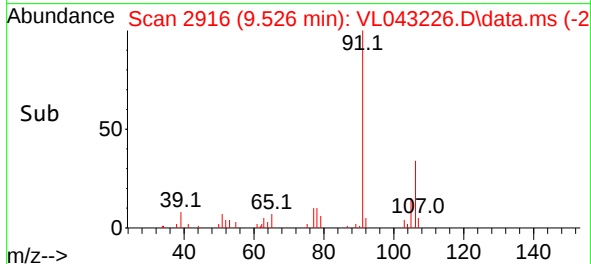
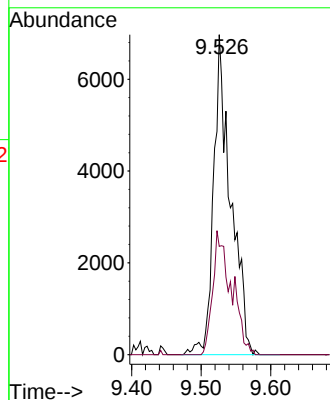
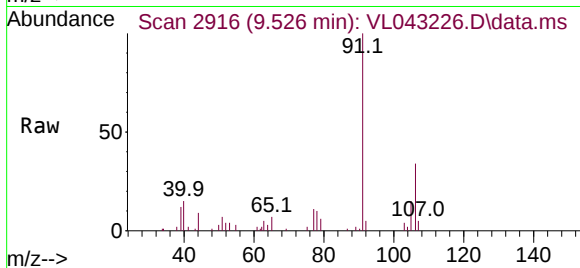
106 0.0 36.1 54.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#60

o-Xylene

Concen: 0.147 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. 0.003 min

Lab File: VL043226.D

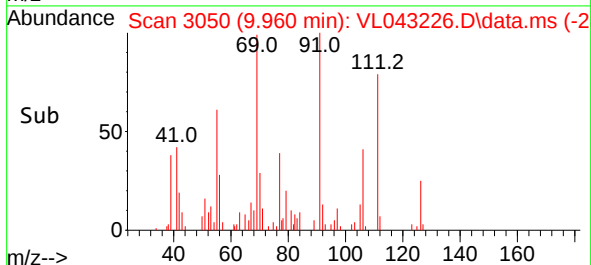
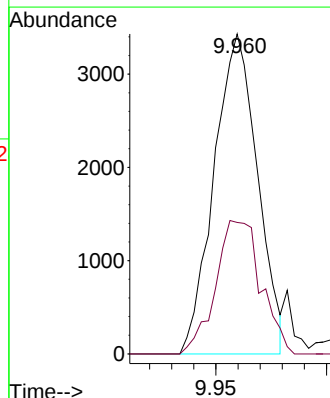
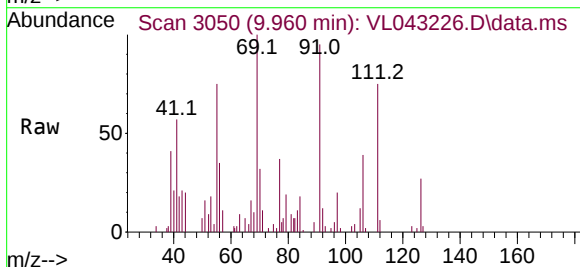
Acq: 18 Nov 2025 22:37

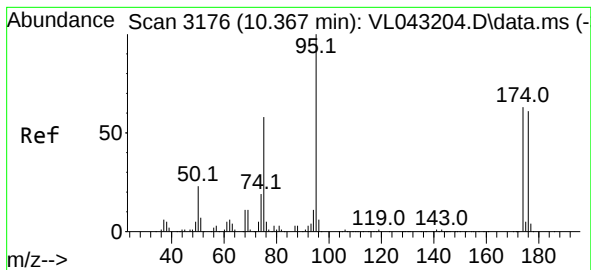
Tgt Ion: 91 Resp: 4685

Ion Ratio Lower Upper

91 100

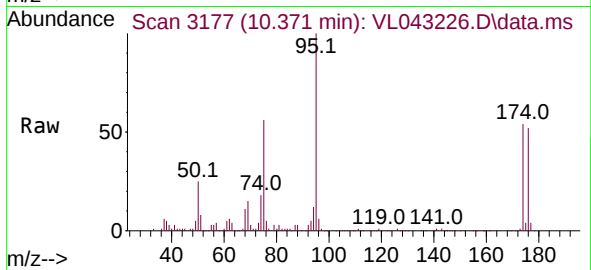
106 43.5 20.9 62.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.435 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL043226.D
 Acq: 18 Nov 2025 22:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion: 95 Resp: 157815
 Ion Ratio Lower Upper
 95 100
 174 57.1 50.2 75.2
 175 4.4 4.1 6.1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

