

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043221.D
 Acq On : 18 Nov 2025 19:58
 Operator : SY/MD
 Sample : Q3650-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Nov 19 01:39:24 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	2.787	49	92120	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	243218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	191077	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	142616	10.182	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	5645	0.434	ppbv	90
3) Chlorodifluoromethane	1.476	51	3193m	0.250	ppbv	
4) Chloromethane	1.534	50	2297	0.473	ppbv	92
9) Propene	1.486	41	1850	0.341	ppbv #	1
11) Trichlorofluoromethane	1.877	101	2720m	0.216	ppbv	
13) Ethanol	1.722	45	4898	2.567	ppbv #	38
15) Acetone	1.835	43	31117	2.431	ppbv	100
19) Isopropyl Alcohol	1.887	45	4362	0.603	ppbv #	1
20) Methylene Chloride	2.059	84	5113	0.619	ppbv #	91
26) Hexane	2.823	57	2923	0.242	ppbv #	52
34) 2-Butanone	2.560	43	4026	0.234	ppbv	100
35) Carbon Tetrachloride	3.758	117	1391m	0.075	ppbv	
36) Benzene	3.651	78	2521	0.108	ppbv #	84
53) Toluene	6.927	91	5489m	0.199	ppbv	

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

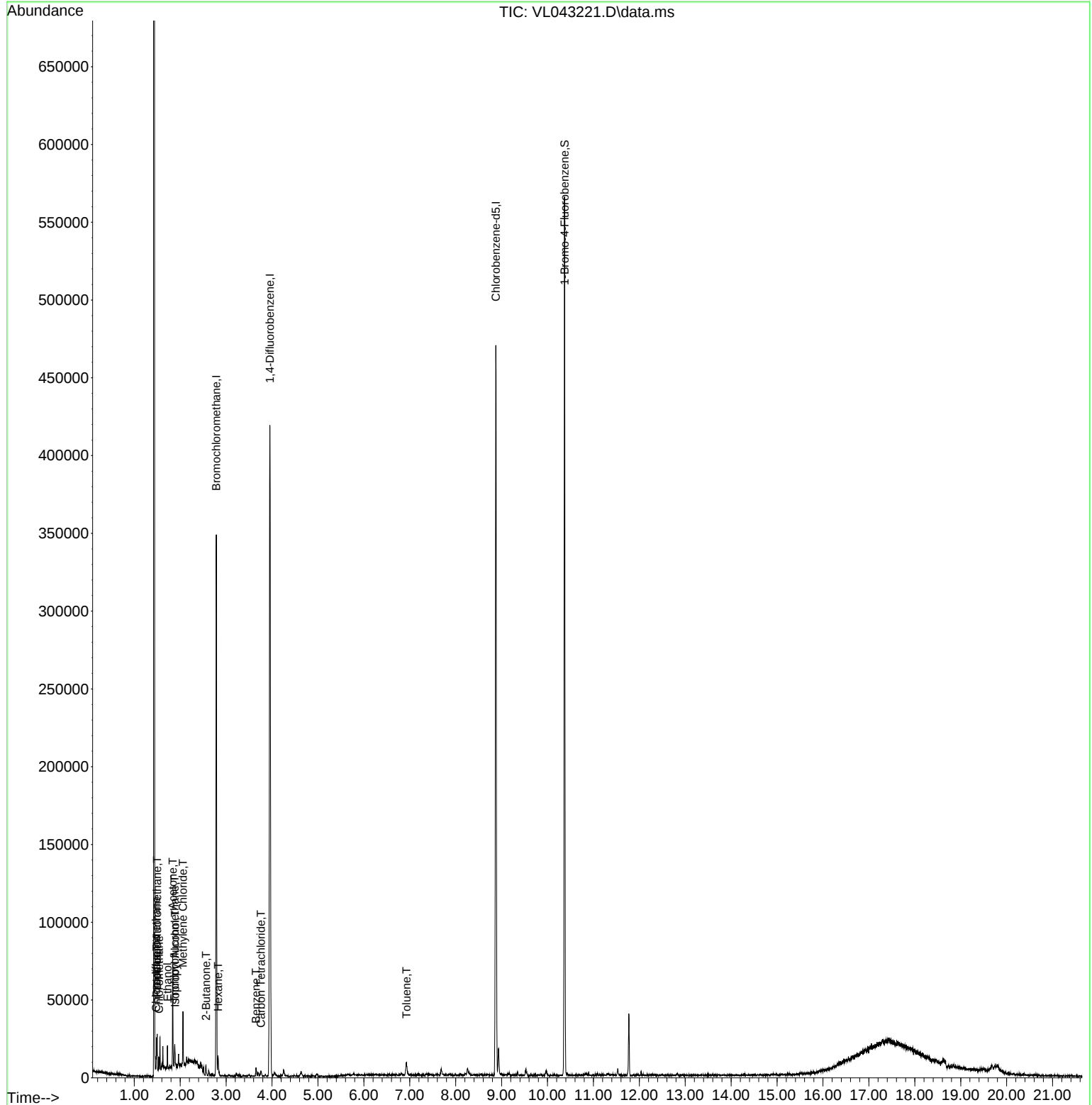
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043221.D
Acq On : 18 Nov 2025 19:58
Operator : SY/MD
Sample : Q3650-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

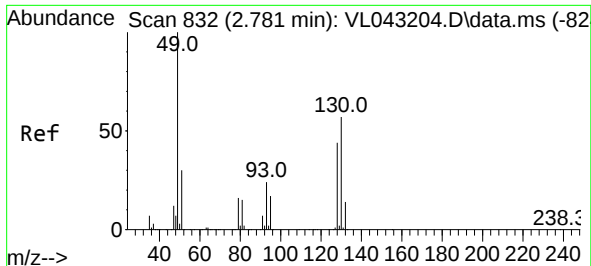
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Nov 19 01:39:24 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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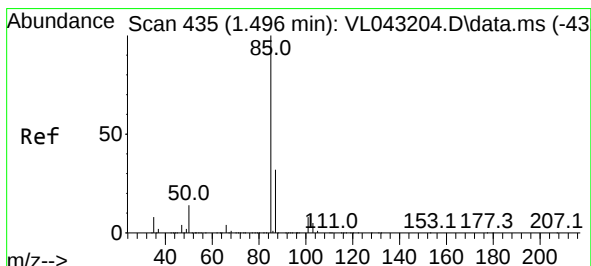
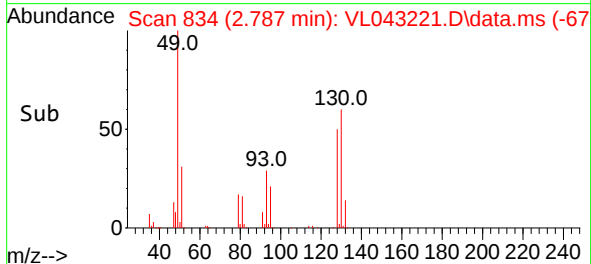
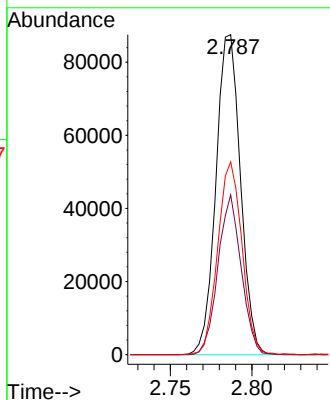
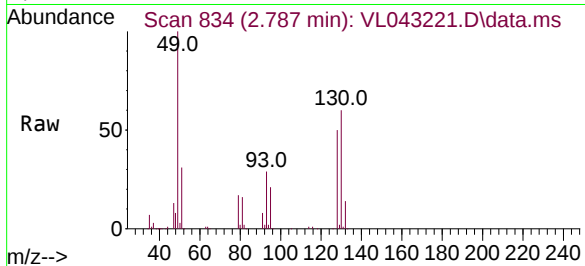
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 92120
Ion Ratio Lower Upper
49 100
128 47.0 23.0 69.0
130 59.4 29.9 89.7

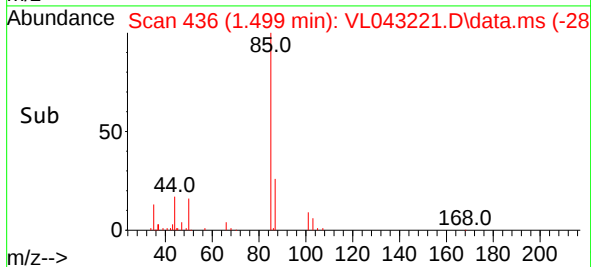
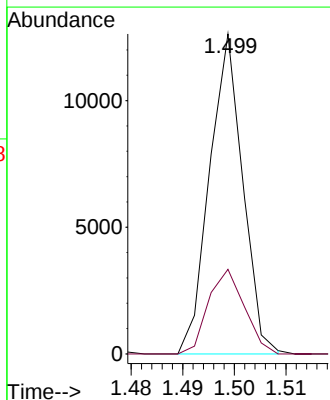
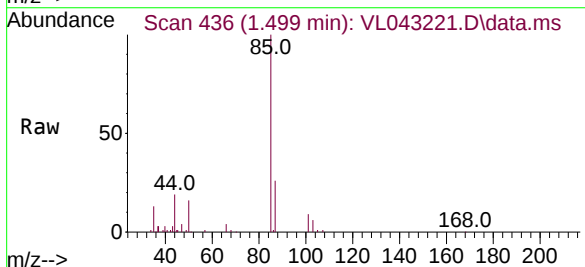
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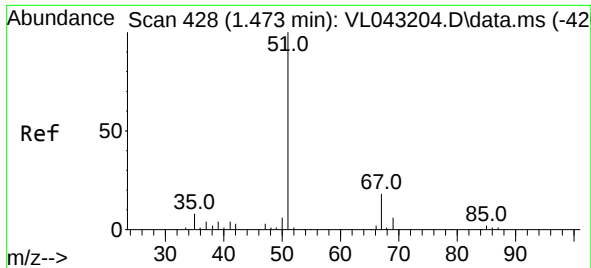
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Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.434 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion: 85 Resp: 5645
Ion Ratio Lower Upper
85 100
87 26.4 25.4 38.2





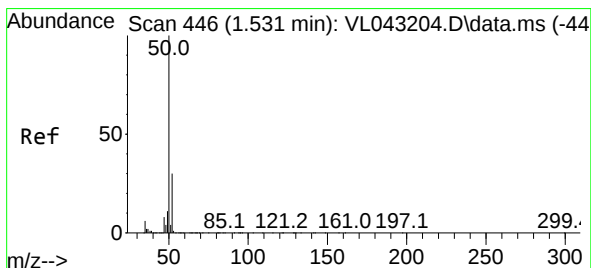
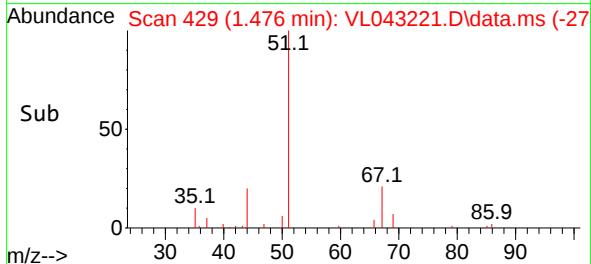
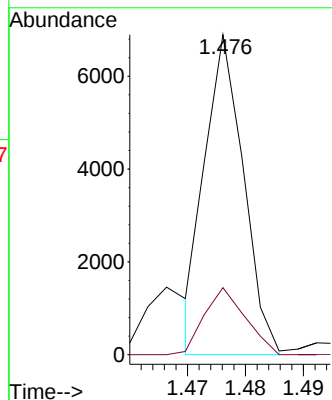
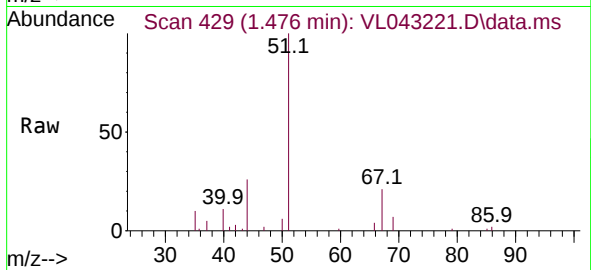
#3
Chlorodifluoromethane
Concen: 0.250 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 3193
Ion Ratio Lower Upper
51 100
67 22.4 14.9 22.3

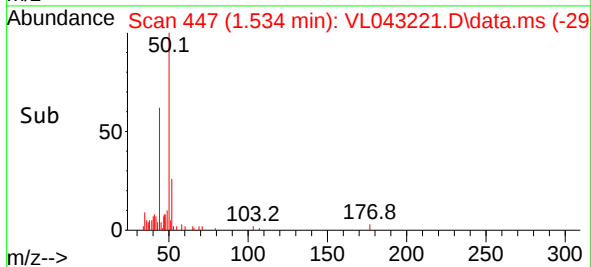
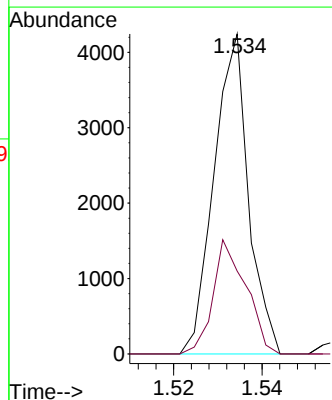
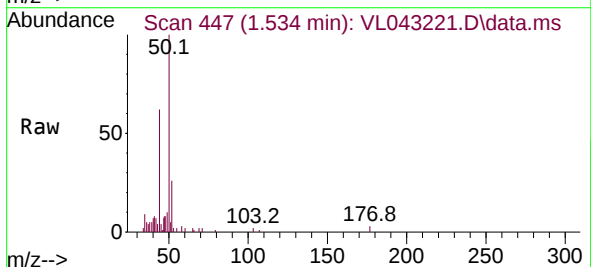
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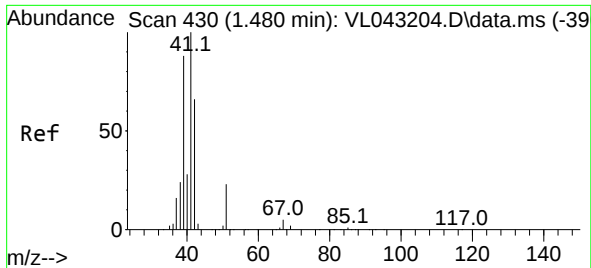
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Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 0.473 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion: 50 Resp: 2297
Ion Ratio Lower Upper
50 100
52 25.9 24.1 36.1





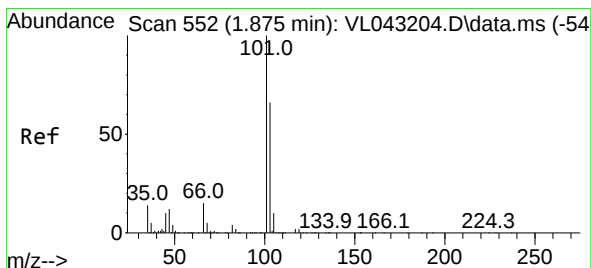
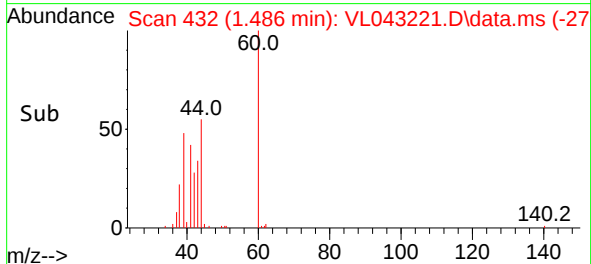
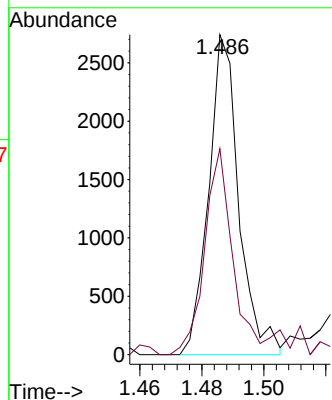
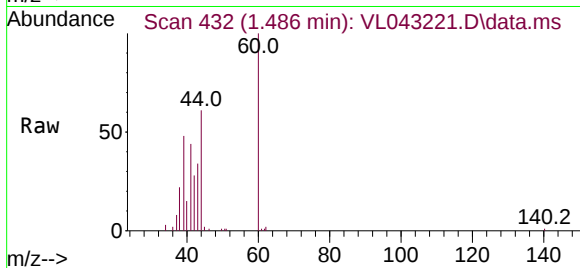
#9
Propene
Concen: 0.341 ppbv
RT: 1.486 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 1850
Ion Ratio Lower Upper
41 100
42 71.0 3.7 5.5

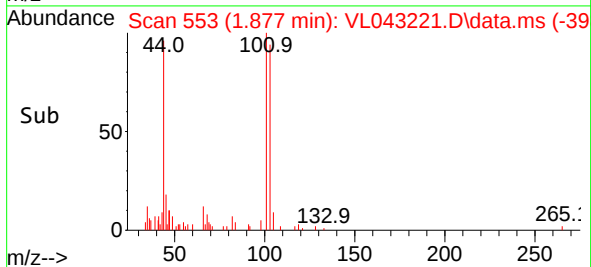
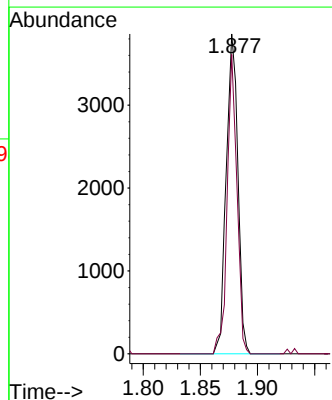
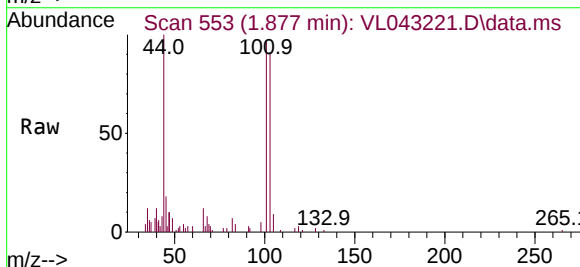
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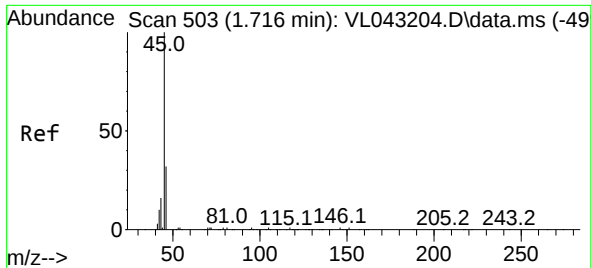
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Supervised By :Mahesh Dadoda 11/19/2025



#11
Trichlorofluoromethane
Concen: 0.216 ppbv m
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion:101 Resp: 2720
Ion Ratio Lower Upper
101 100
103 93.6 52.6 79.0





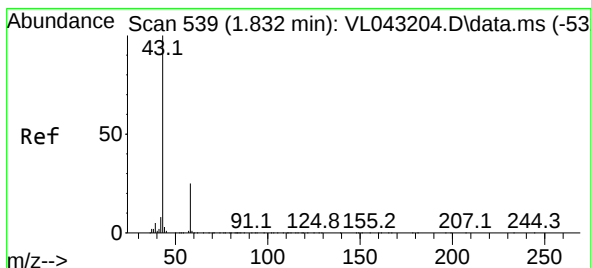
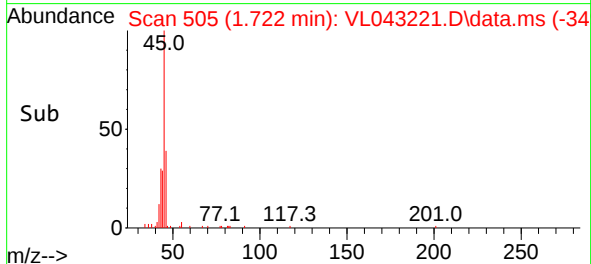
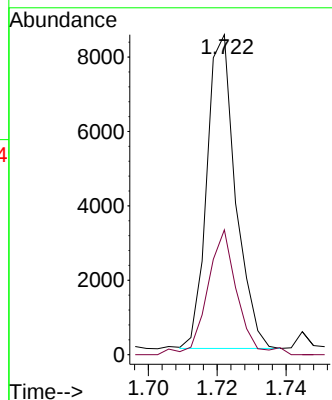
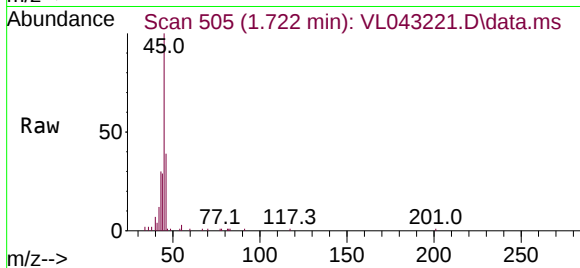
#13
Ethanol
Concen: 2.567 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 4898
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

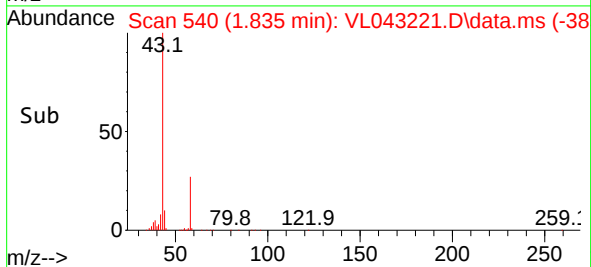
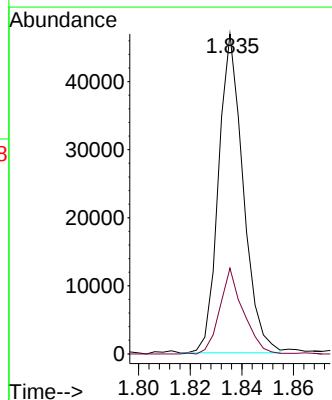
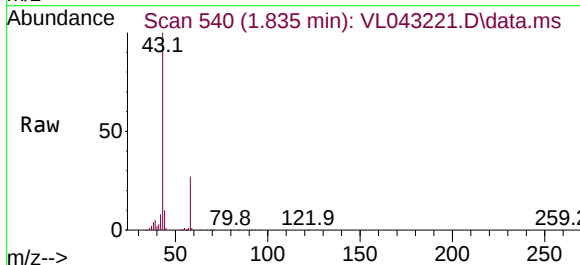
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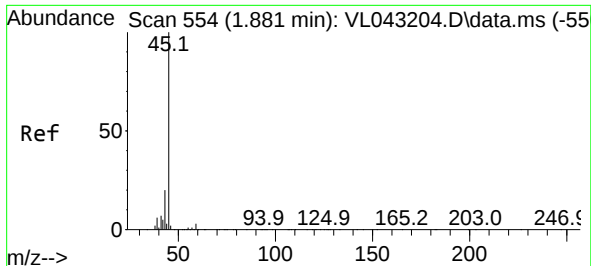
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Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 2.431 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion: 43 Resp: 31117
Ion Ratio Lower Upper
43 100
58 25.7 20.7 31.1





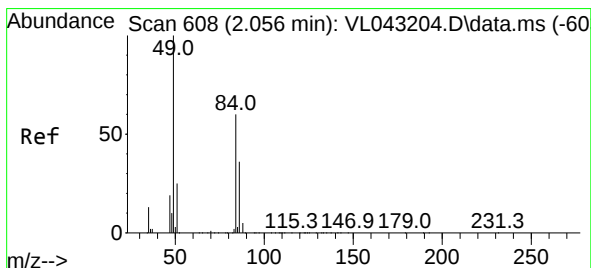
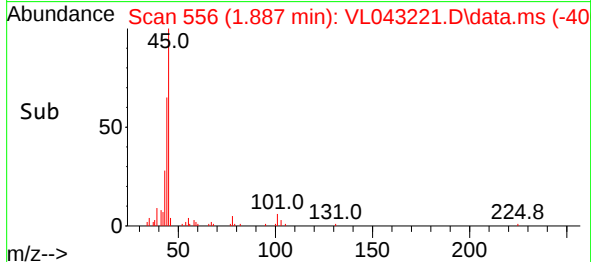
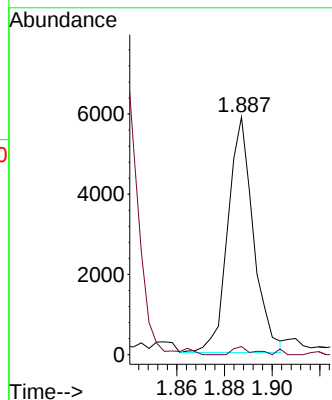
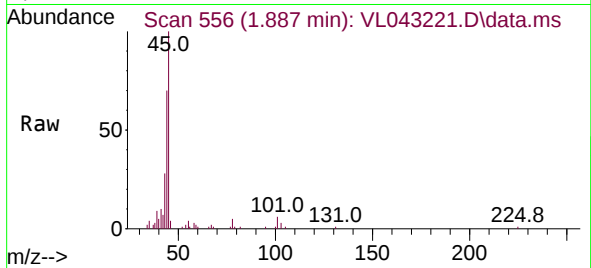
#19
Isopropyl Alcohol
Concen: 0.603 ppbv
RT: 1.887 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 4362
Ion Ratio Lower Upper
45 100
58 183.7 31.3 46.9

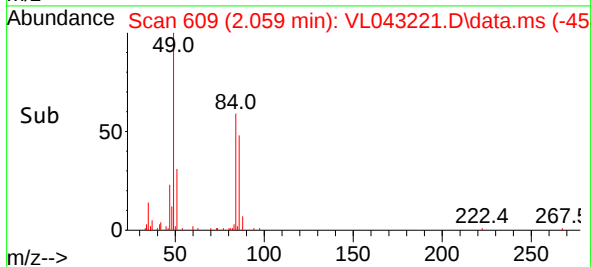
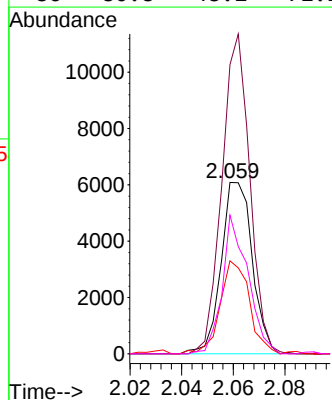
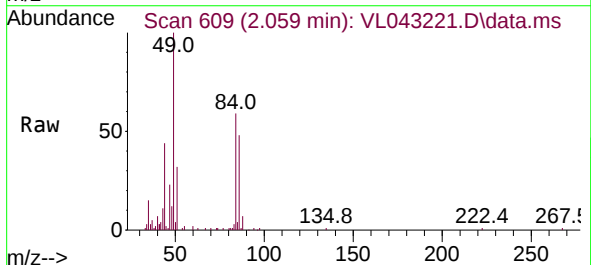
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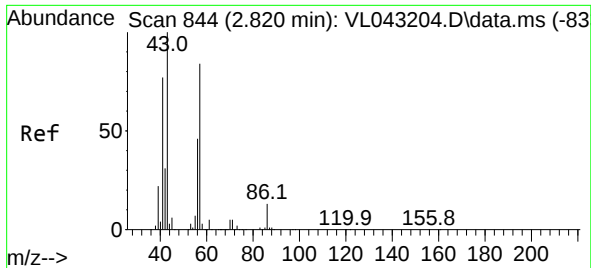
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 0.619 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

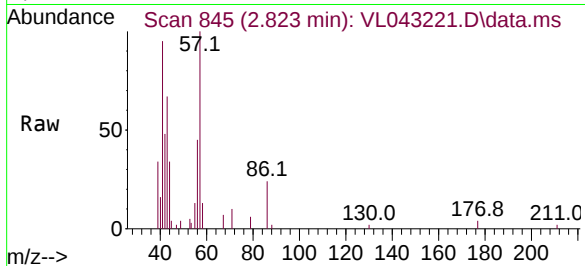
Tgt Ion: 84 Resp: 5113
Ion Ratio Lower Upper
84 100
49 167.3 132.9 199.3
51 54.3 34.8 52.2#
86 80.8 48.2 72.2#





#26
Hexane
Concen: 0.242 ppbv
RT: 2.823 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

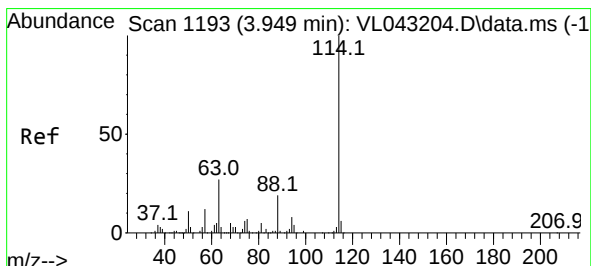
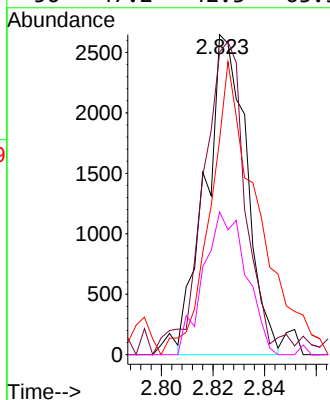
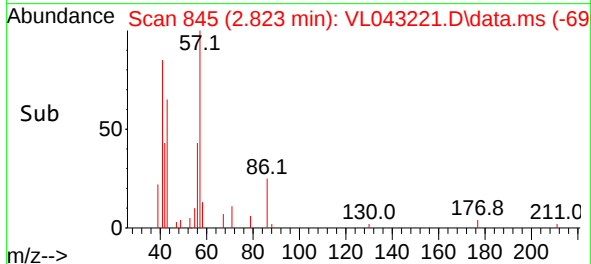
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 2923
Ion Ratio Lower Upper
57 100
41 106.5 74.6 111.8
43 107.9 179.0 268.4
56 47.2 42.3 63.5

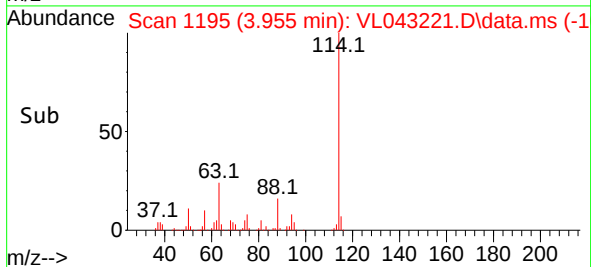
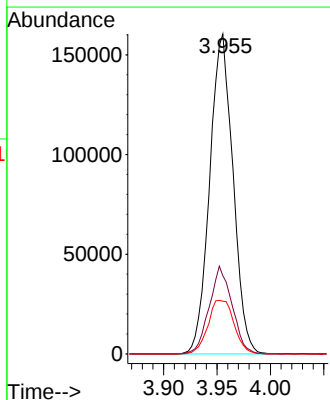
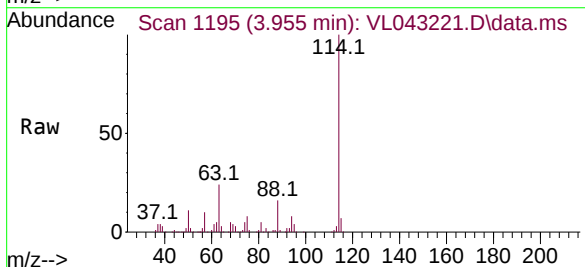
Manual Integrations
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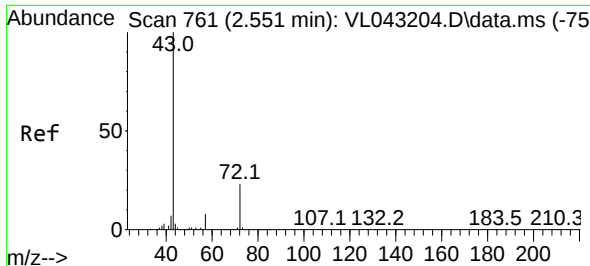
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

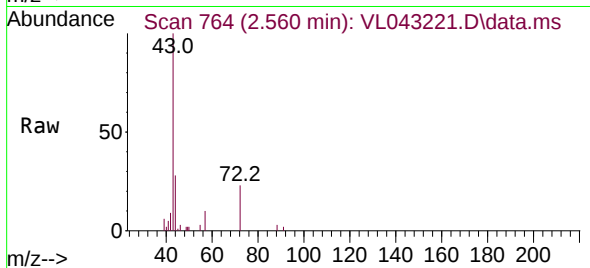
Tgt Ion:114 Resp: 243218
Ion Ratio Lower Upper
114 100
63 26.9 21.0 31.6
88 18.7 14.9 22.3





#34
2-Butanone
Concen: 0.234 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.009 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

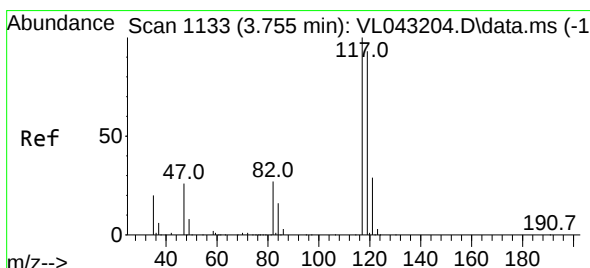
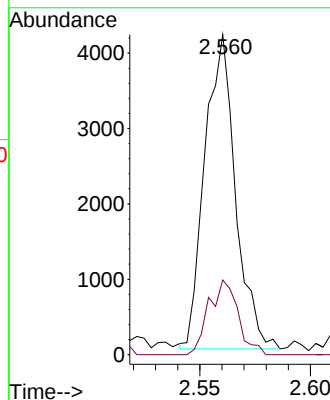
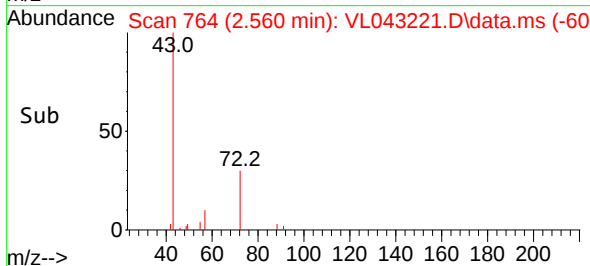
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 4026
Ion Ratio Lower Upper
43 100
72 22.5 18.1 27.1

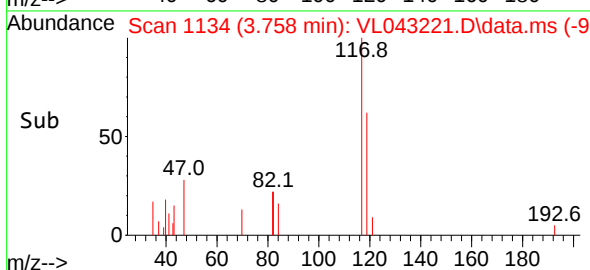
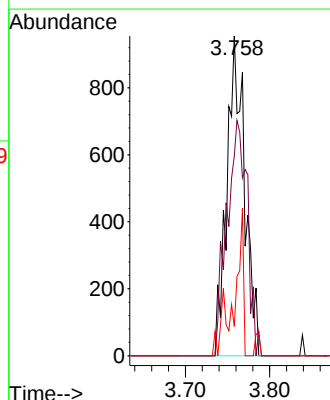
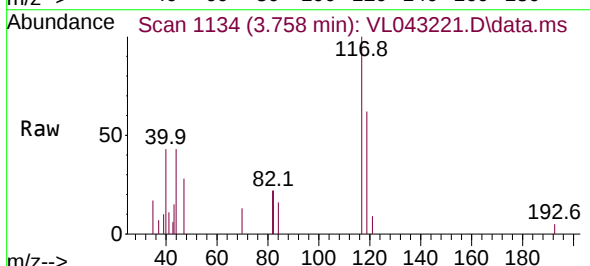
Manual Integrations
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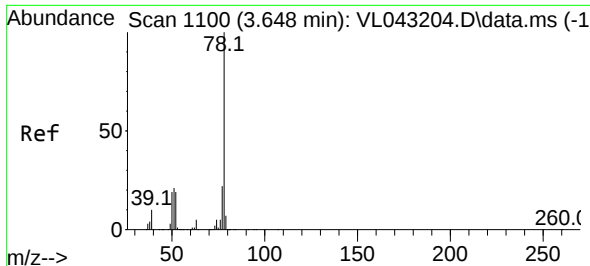
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion:117 Resp: 1391
Ion Ratio Lower Upper
117 100
119 62.4 74.6 112.0#
121 9.2 23.2 34.8#





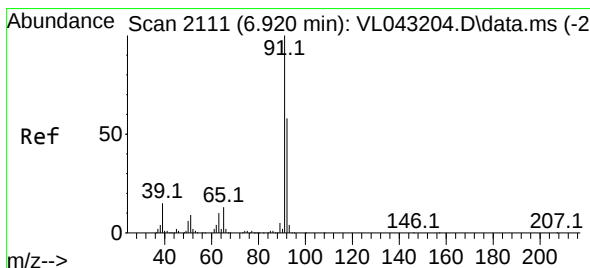
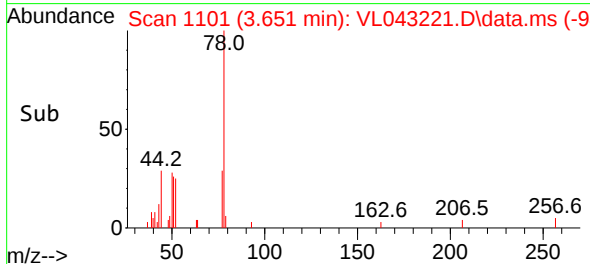
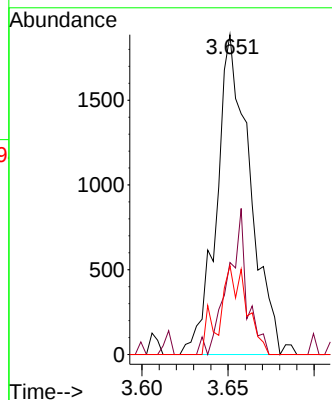
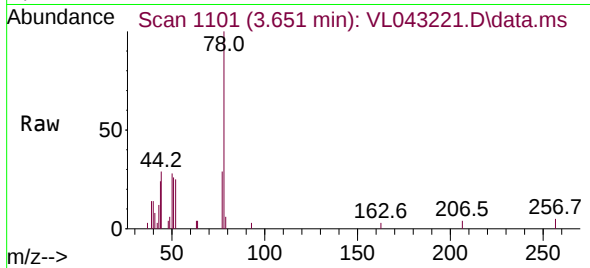
#36
Benzene
Concen: 0.108 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 78 Resp: 252
Ion Ratio Lower Upper
78 100
77 28.8 17.5 26.3
50 27.8 15.5 23.3

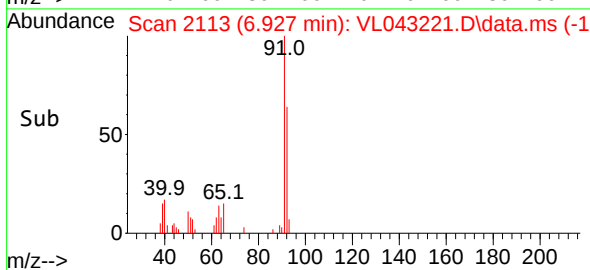
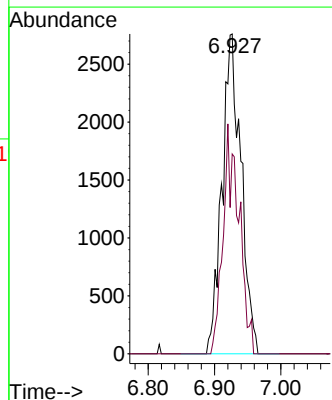
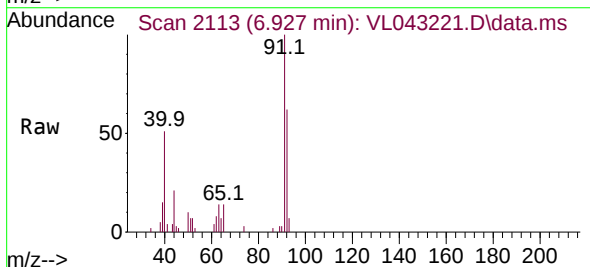
Manual Integrations
APPROVED

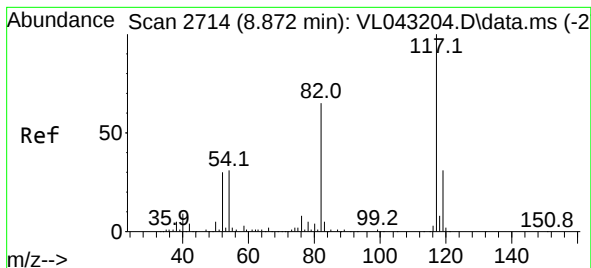
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 0.199 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion: 91 Resp: 5489
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL043221.D

Acq: 18 Nov 2025 19:58

Instrument :

MSVOA_L

ClientSampleId :

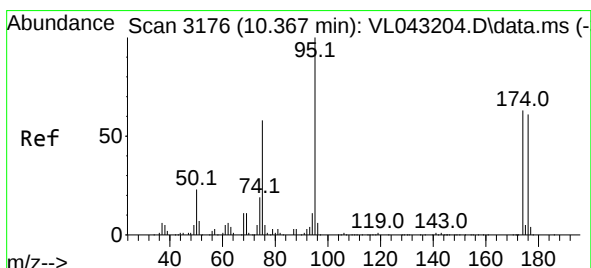
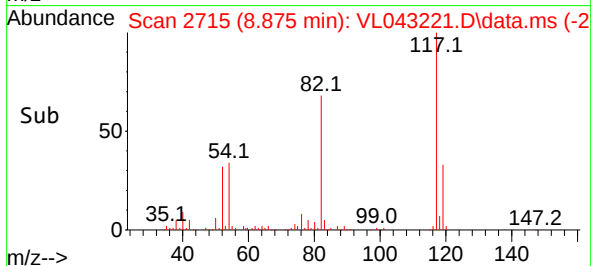
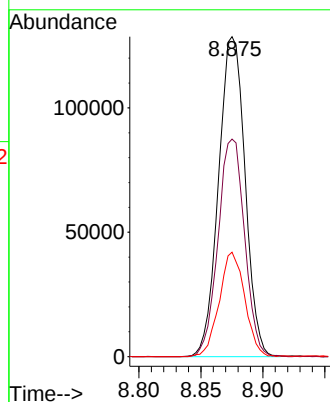
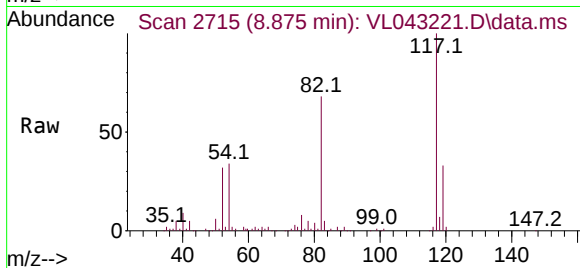
OA1

Tgt Ion:	117	Resp:	19107
Ion Ratio	Lower	Upper	
117	100		
82	68.0	56.1	84.1
119	31.5	25.0	37.6

Manual Integrations

APPROVED

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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.182 ppbv

RT: 10.370 min Scan# 3177

Delta R.T. 0.003 min

Lab File: VL043221.D

Acq: 18 Nov 2025 19:58

Tgt Ion:	95	Resp:	142616
Ion Ratio	Lower	Upper	
95	100		
174	59.0	50.2	75.2
175	4.5	4.1	6.1

