

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043315.D
 Acq On : 08 Dec 2025 16:25
 Operator : SY/MD
 Sample : Q3799-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 13-IA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
 Supervised By :Mahesh Dadoda 12/11/2025

Quant Time: Dec 09 00:12:49 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	2.777	49	133616	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	344933	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.865	117	261904	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	195928	10.206	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7550	0.401	ppbv	94
3) Chlorodifluoromethane	1.473	51	11927m	0.644	ppbv	
4) Chloromethane	1.528	50	3225	0.458	ppbv	93
9) Propene	1.486	41	6937	0.881	ppbv #	1
11) Trichlorofluoromethane	1.874	101	4607	0.252	ppbv	94
13) Ethanol	1.716	45	117047	42.294	ppbv	99
15) Acetone	1.829	43	65404	3.523	ppbv	100
19) Isopropyl Alcohol	1.881	45	152976	14.583	ppbv #	38
20) Methylene Chloride	2.056	84	8141	0.763	ppbv #	96
26) Hexane	2.819	57	39916	2.274	ppbv #	44
34) 2-Butanone	2.551	43	6283	0.258	ppbv	99
35) Carbon Tetrachloride	3.745	117	1779m	0.068	ppbv	
36) Benzene	3.645	78	6800	0.206	ppbv	97
52) Tetrachloroethene	8.202	164	663m	0.054	ppbv	
53) Toluene	6.914	91	7587m	0.194	ppbv	

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

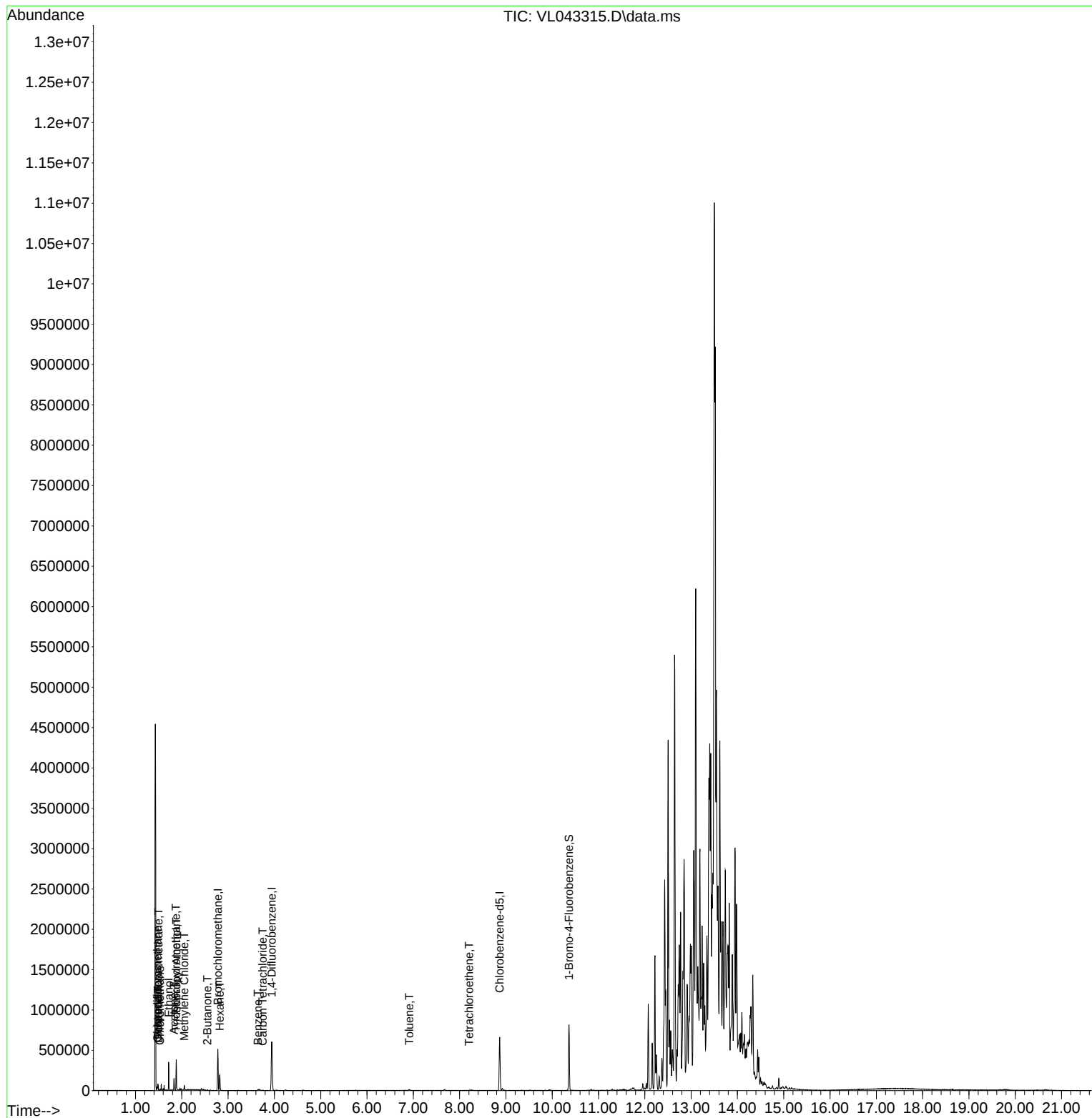
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
Data File : VL043315.D
Acq On : 08 Dec 2025 16:25
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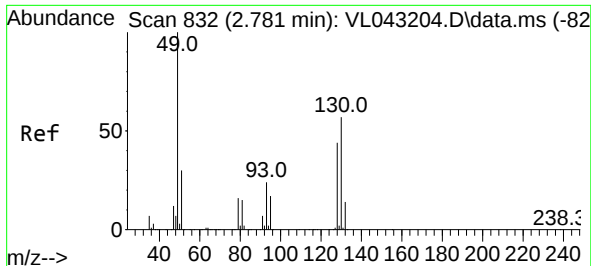
Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

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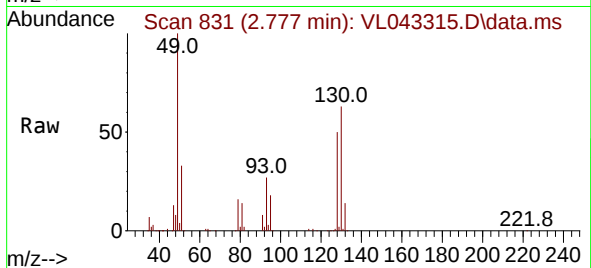
Quant Time: Dec 09 00:12:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

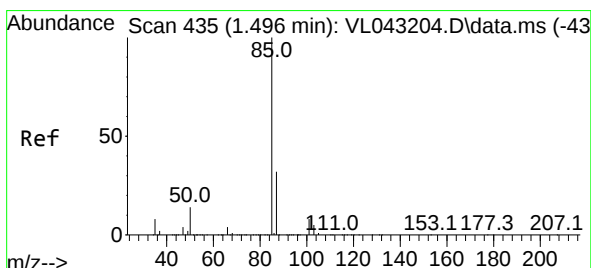
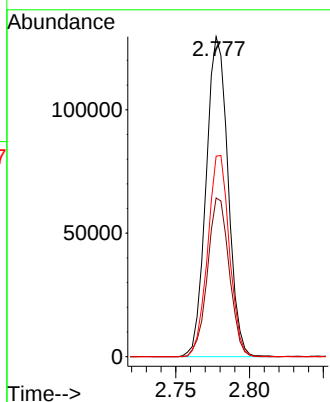
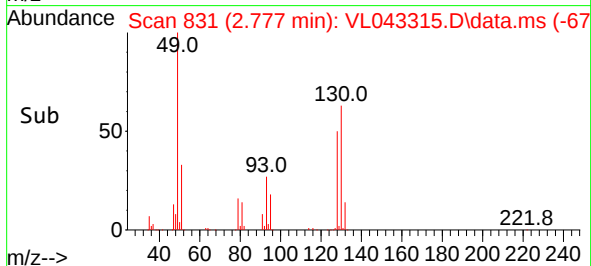
Instrument :
MSVOA_L
ClientSampleId :
13-IA-1



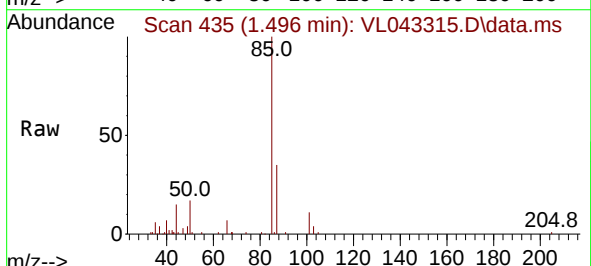
Tgt Ion: 49 Resp: 133610
Ion Ratio Lower Upper
49 100
128 49.4 23.0 69.0
130 62.4 29.9 89.7

Manual Integrations
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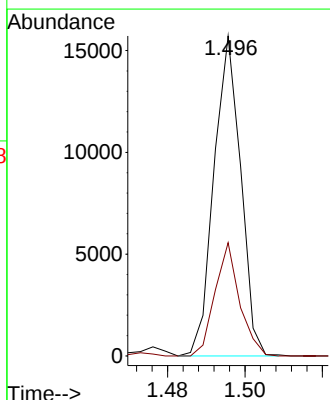
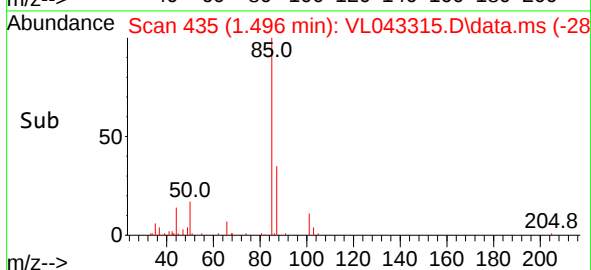
Reviewed By :Semsettin Yesilyurt 12/09/2025
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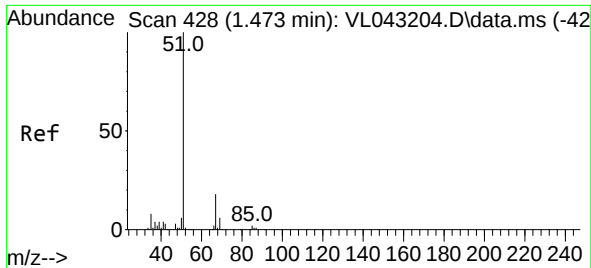


#2
Dichlorodifluoromethane
Concen: 0.401 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25



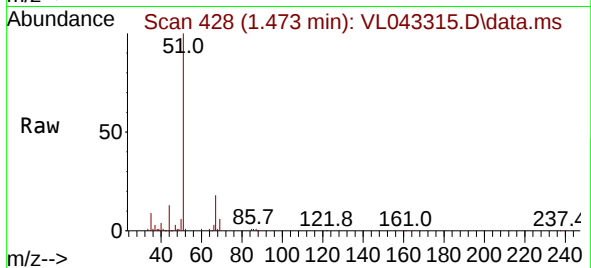
Tgt Ion: 85 Resp: 7550
Ion Ratio Lower Upper
85 100
87 35.4 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.644 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

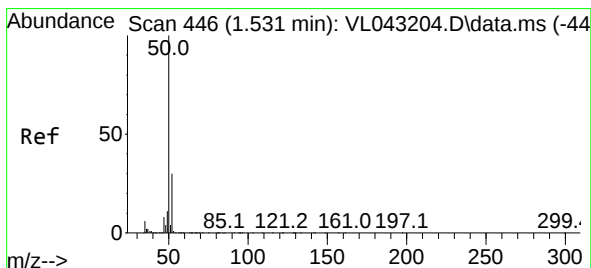
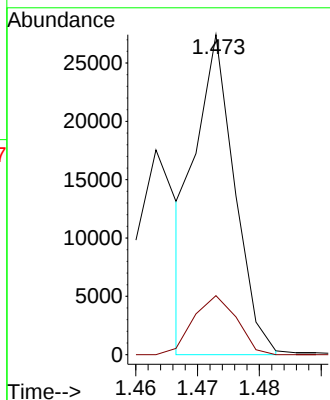
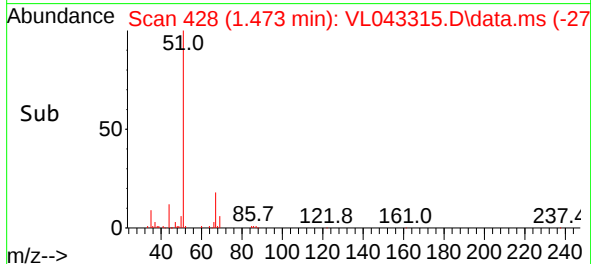
Instrument :
MSVOA_L
ClientSampleId :
13-IA-1



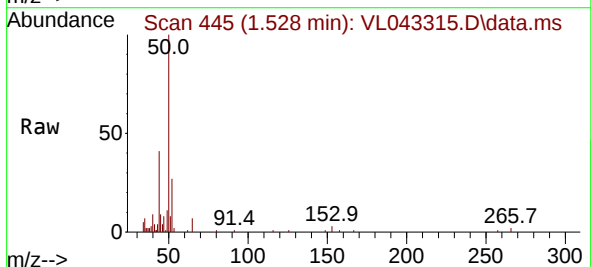
Tgt Ion: 51 Resp: 1192
Ion Ratio Lower Upper
51 100
67 20.8 14.9 22.3

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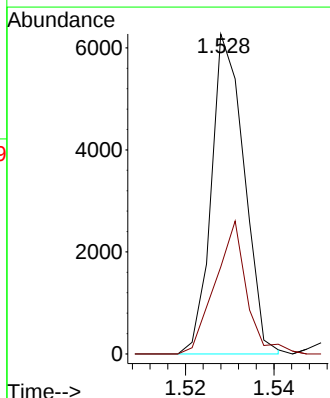
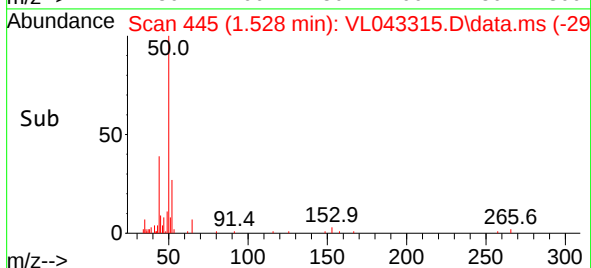
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

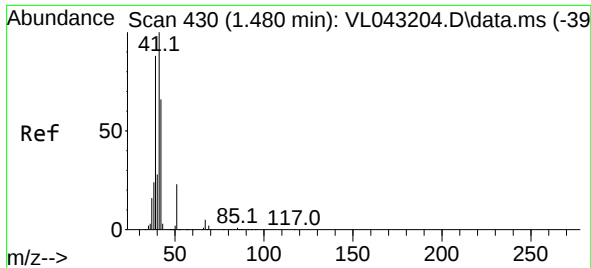


#4
Chloromethane
Concen: 0.458 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25



Tgt Ion: 50 Resp: 3225
Ion Ratio Lower Upper
50 100
52 26.3 24.1 36.1





#9

Propene

Concen: 0.881 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043315.D

Acq: 08 Dec 2025 16:25

Instrument :

MSVOA_L

ClientSampleId :

13-IA-1

Tgt Ion: 41 Resp: 693

Ion Ratio Lower Upper

41 100

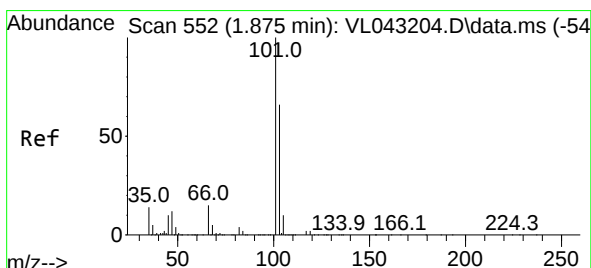
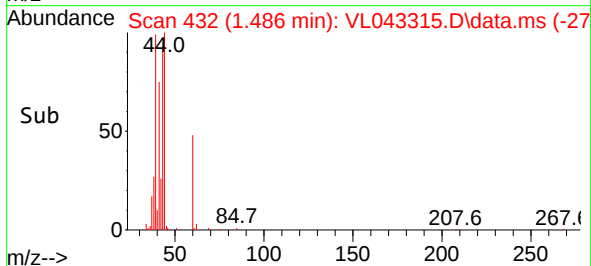
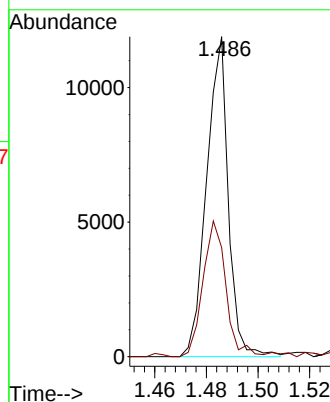
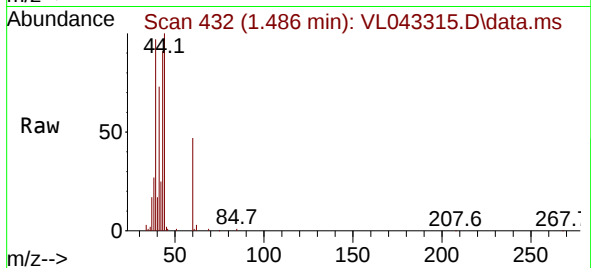
42 45.2 3.7 5.5

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.252 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL043315.D

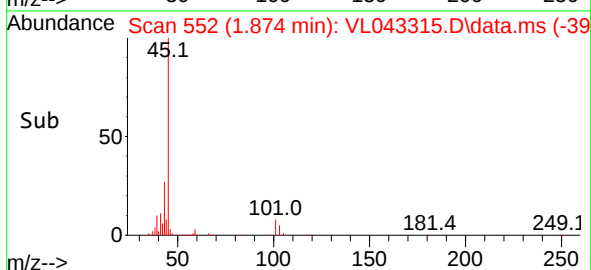
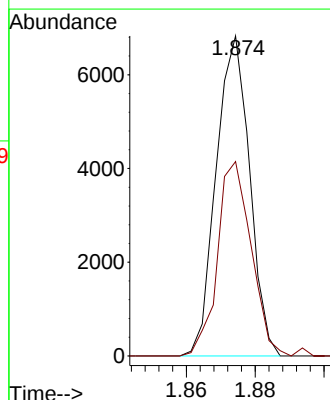
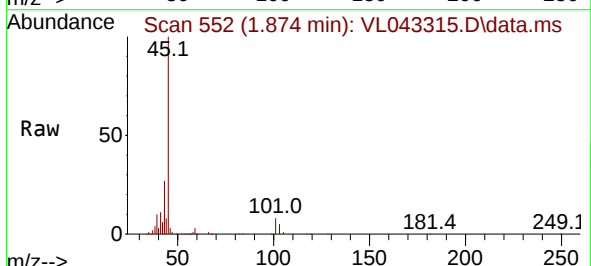
Acq: 08 Dec 2025 16:25

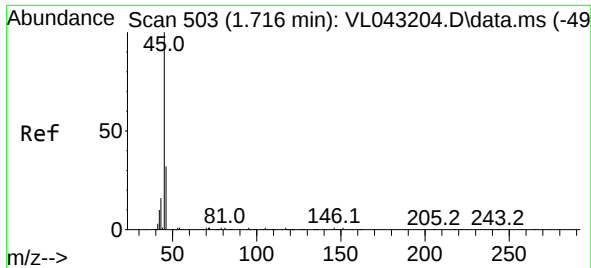
Tgt Ion:101 Resp: 4607

Ion Ratio Lower Upper

101 100

103 60.7 52.6 79.0





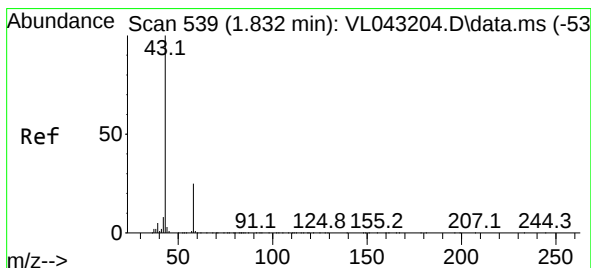
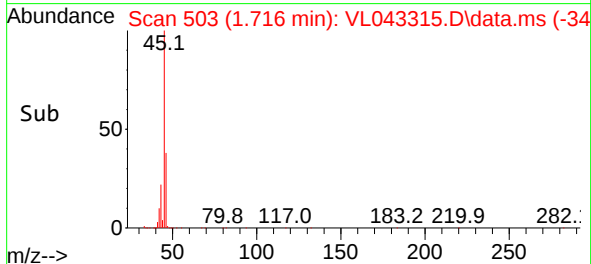
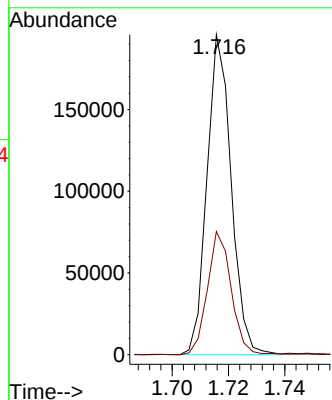
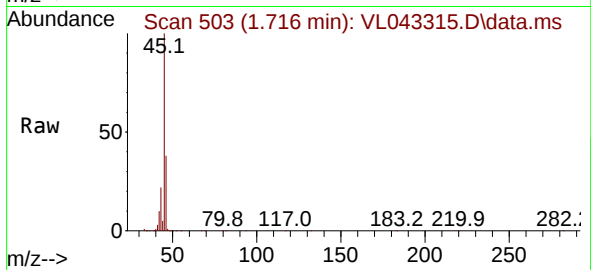
#13
Ethanol
Concen: 42.294 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 45 Resp: 11704
Ion Ratio Lower Upper
45 100
46 38.1 15.0 59.8

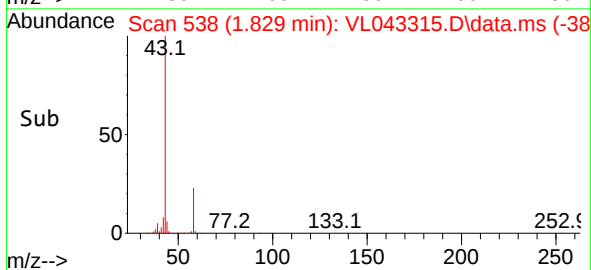
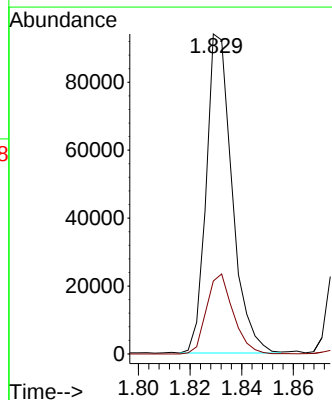
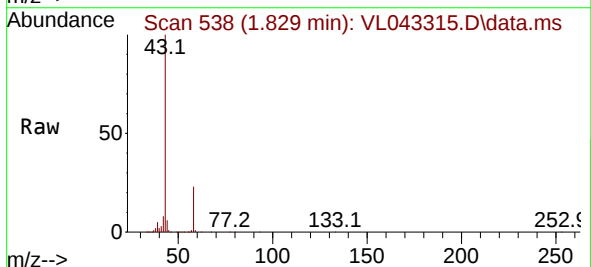
Manual Integrations
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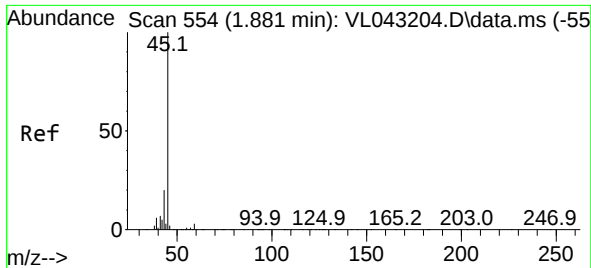
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#15
Acetone
Concen: 3.523 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

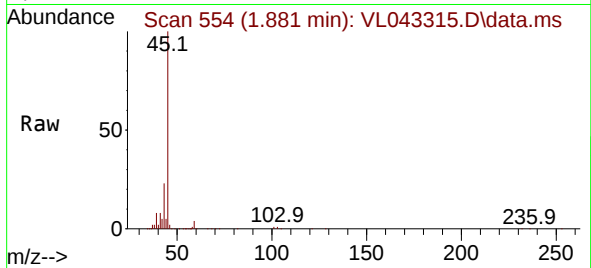
Tgt Ion: 43 Resp: 65404
Ion Ratio Lower Upper
43 100
58 25.8 20.7 31.1





#19
Isopropyl Alcohol
Concen: 14.583 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

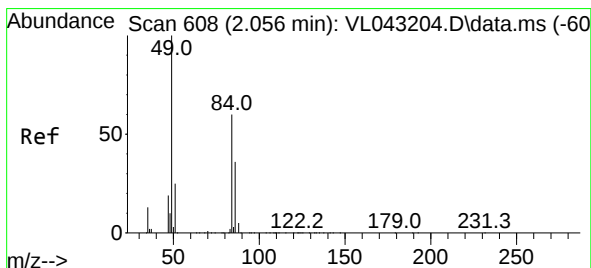
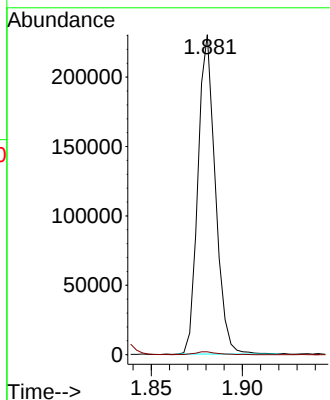
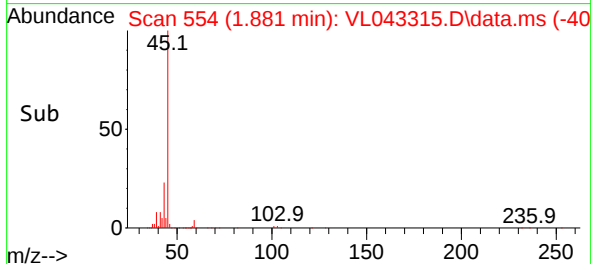
Instrument :
MSVOA_L
ClientSampleId :
13-IA-1



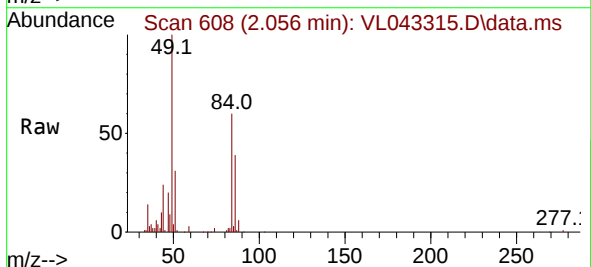
Tgt Ion: 45 Resp: 152970
Ion Ratio Lower Upper
45 100
58 1.2 31.3 46.9

Manual Integrations
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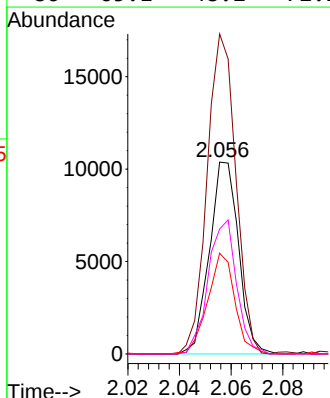
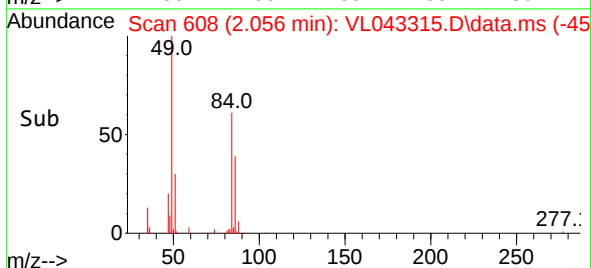
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

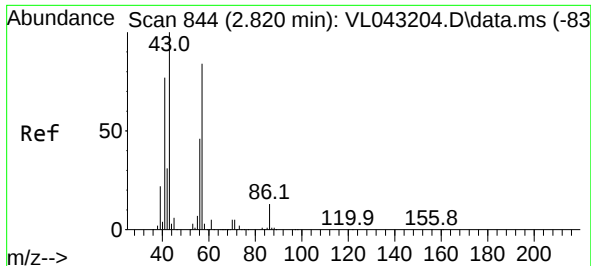


#20
Methylene Chloride
Concen: 0.763 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25



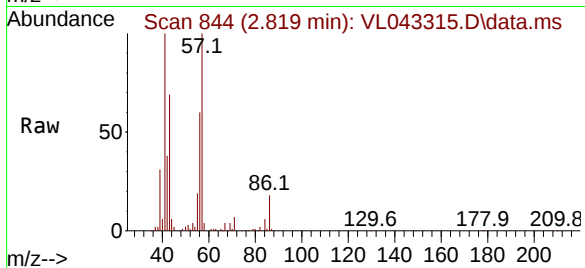
Tgt Ion: 84 Resp: 8141
Ion Ratio Lower Upper
84 100
49 166.8 132.9 199.3
51 52.5 34.8 52.2#
86 65.1 48.2 72.2





#26
Hexane
Concen: 2.274 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

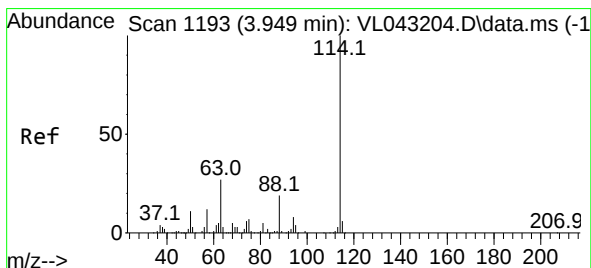
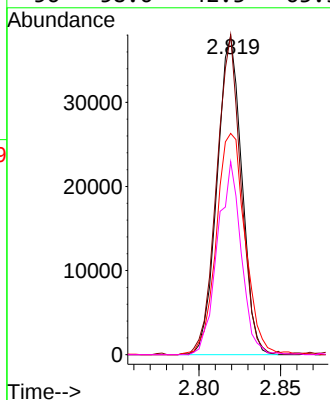
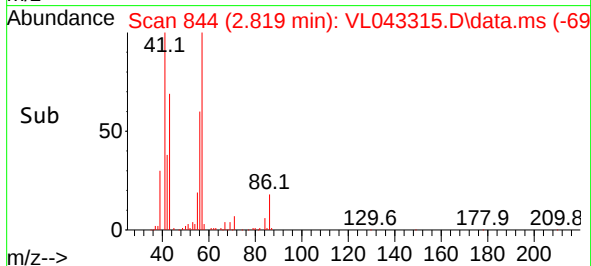
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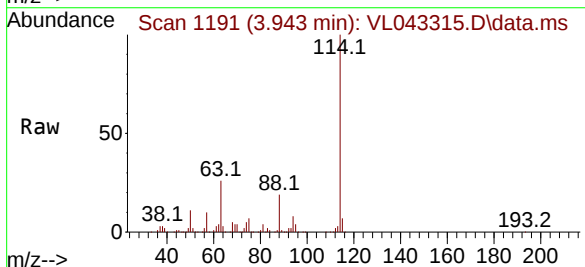
Tgt Ion: 57 Resp: 39910
Ion Ratio Lower Upper
57 100
41 100.1 74.6 111.8
43 81.2 179.0 268.4
56 58.6 42.3 63.5

Manual Integrations
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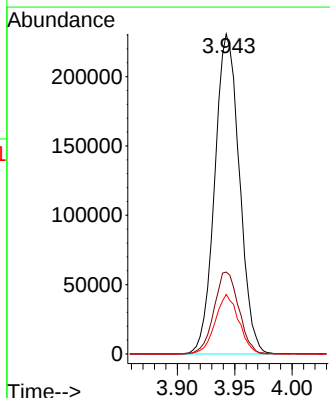
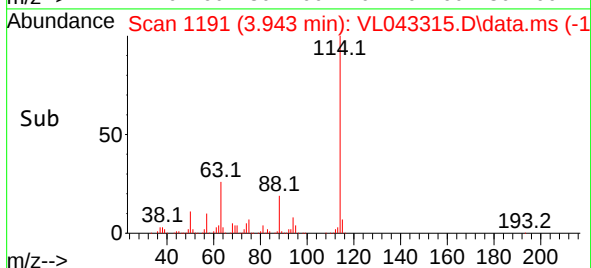
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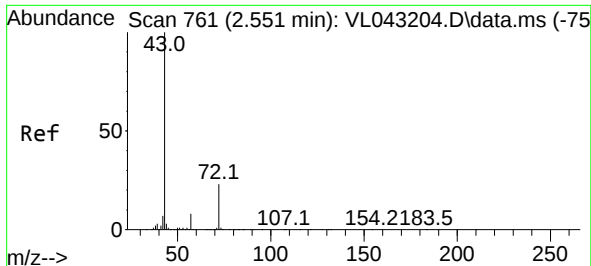


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1191
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25



Tgt Ion:114 Resp: 344933
Ion Ratio Lower Upper
114 100
63 25.8 21.0 31.6
88 17.8 14.9 22.3





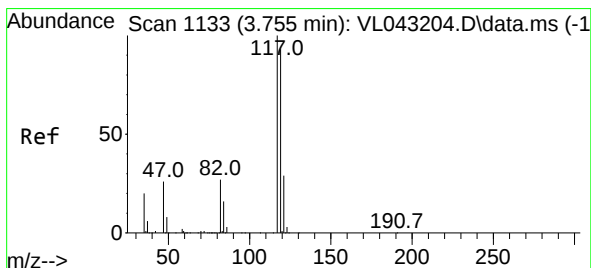
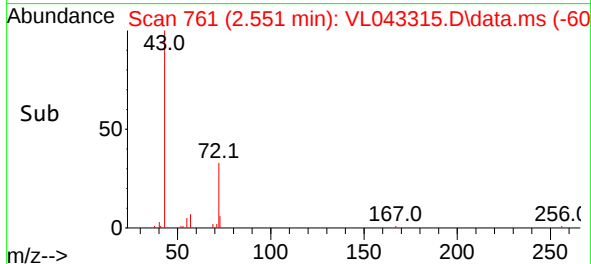
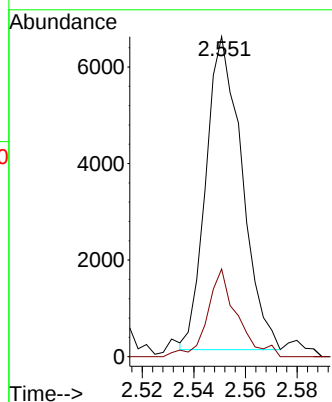
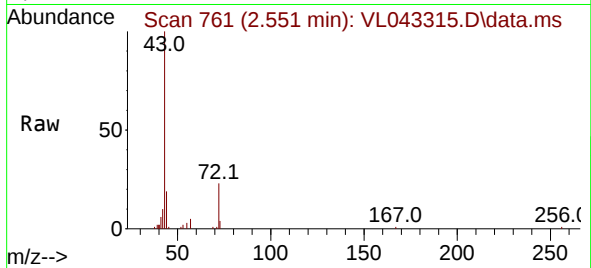
#34
2-Butanone
Concen: 0.258 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.000 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
Client Sample Id :
13-IA-1

Tgt Ion: 43 Resp: 628
Ion Ratio Lower Upper
43 100
72 23.0 18.1 27.1

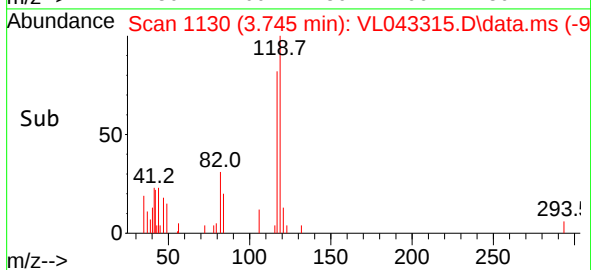
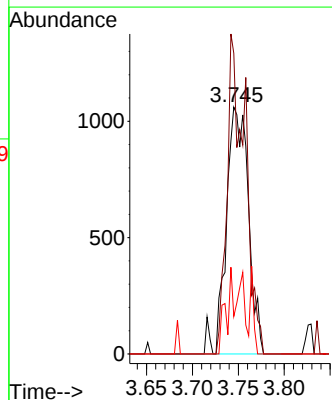
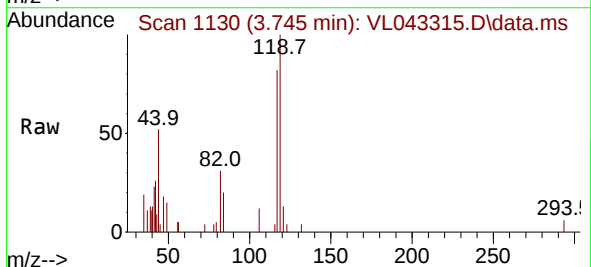
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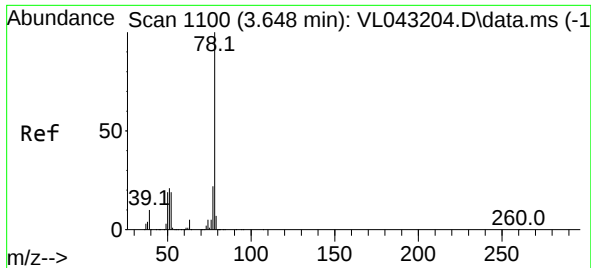
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.745 min Scan# 1130
Delta R.T. -0.010 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:117 Resp: 1779
Ion Ratio Lower Upper
117 100
119 121.8 74.6 112.0#
121 15.3 23.2 34.8#





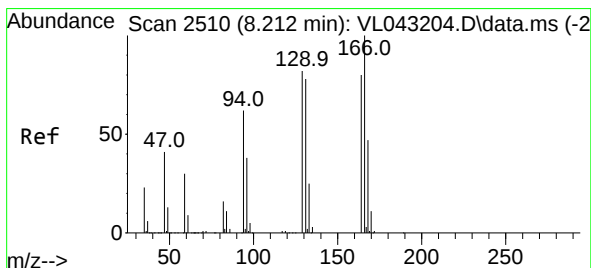
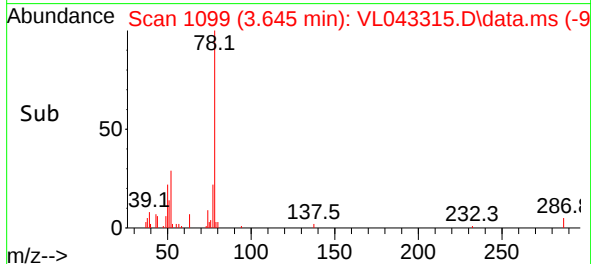
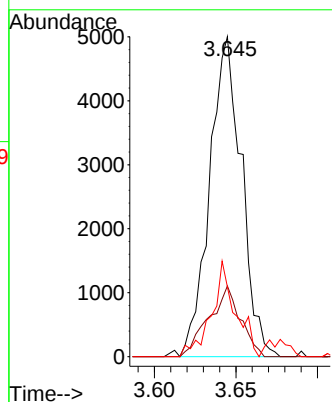
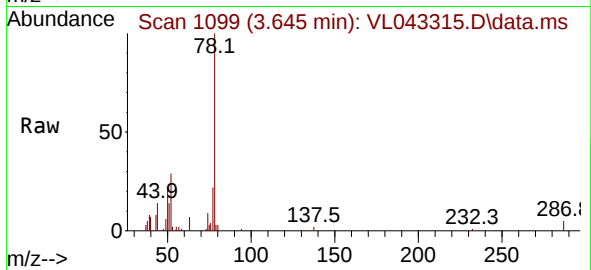
#36
Benzene
Concen: 0.206 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 78 Resp: 6800
Ion Ratio Lower Upper
78 100
77 22.1 17.5 26.3
50 21.8 15.5 23.3

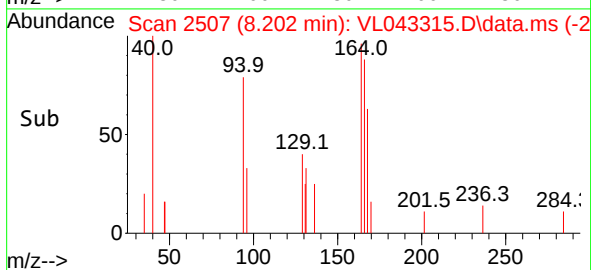
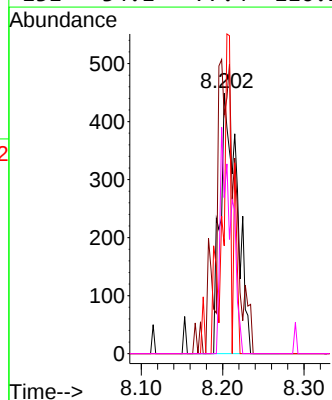
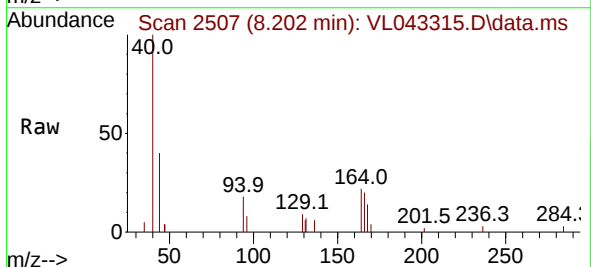
Manual Integrations
APPROVED

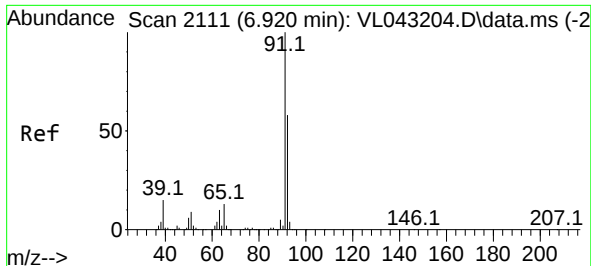
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#52
Tetrachloroethene
Concen: 0.054 ppbv m
RT: 8.202 min Scan# 2507
Delta R.T. -0.010 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

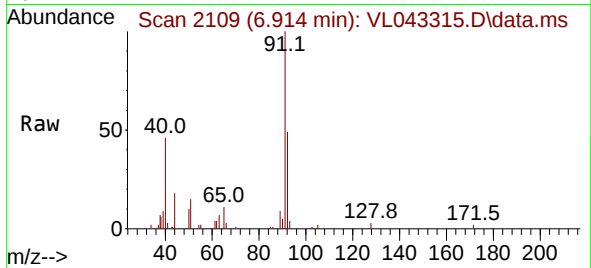
Tgt Ion:164 Resp: 663
Ion Ratio Lower Upper
164 100
166 91.8 99.4 149.2#
129 41.4 81.8 122.8#
131 34.1 77.4 116.2#





#53
Toluene
Concen: 0.194 ppbv m
RT: 6.914 min Scan# 2111
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

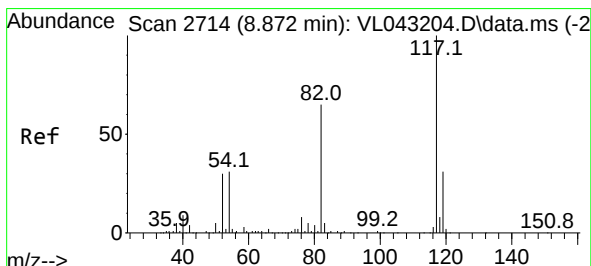
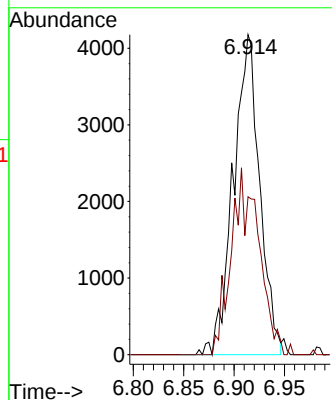
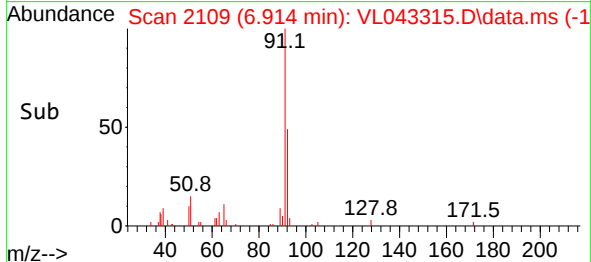
Instrument :
MSVOA_L
ClientSampleId :
13-IA-1



Tgt Ion: 91 Resp: 758
Ion Ratio Lower Upper
91 100
92 61.7 47.4 71.0

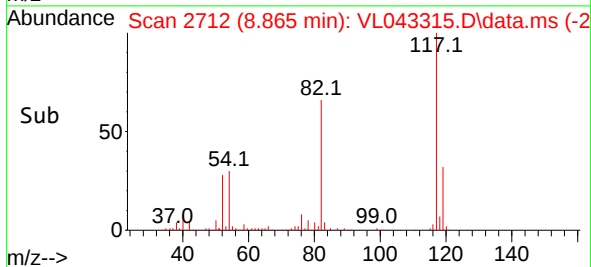
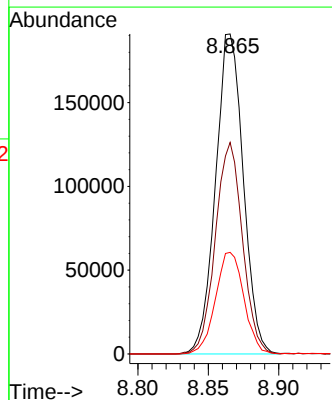
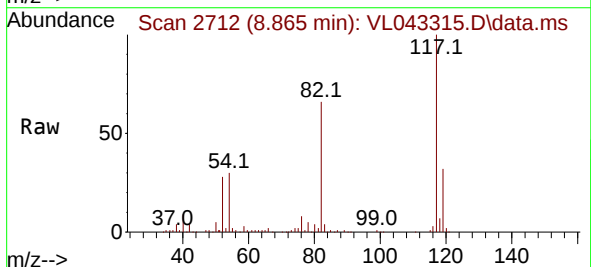
Manual Integrations
APPROVED

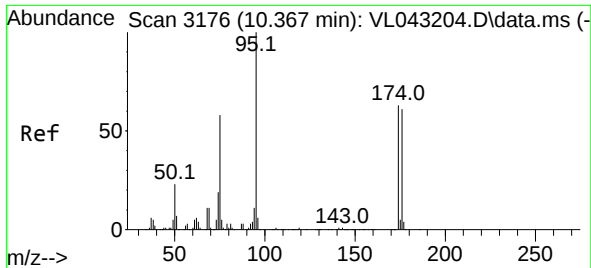
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.865 min Scan# 2712
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Tgt Ion:117 Resp: 261904
Ion Ratio Lower Upper
117 100
82 64.6 56.1 84.1
119 32.6 25.0 37.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.206 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. -0.007 min
Lab File: VL043315.D
Acq: 08 Dec 2025 16:25

Instrument :
MSVOA_L
ClientSampleId :
13-IA-1

Tgt Ion: 95 Resp: 195928
Ion Ratio Lower Upper
95 100
174 67.0 50.2 75.2
175 5.0 4.1 6.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

