

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043313.D
 Acq On : 08 Dec 2025 14:29
 Operator : SY/MD
 Sample : Q3799-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10-IA-1

Manual Integrations
 APPROVED

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

Quant Time: Dec 09 00:11:53 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	2.784	49	142316	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	361997	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	299956	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	227860	10.363	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.495	85	8224	0.410	ppbv	96
3) Chlorodifluoromethane	1.476	51	4267m	0.216	ppbv	
4) Chloromethane	1.531	50	3421	0.456	ppbv	95
9) Propene	1.482	41	14885	1.776	ppbv #	86
10) Heptane	4.962	43	4267m	0.171	ppbv	
11) Trichlorofluoromethane	1.874	101	4374	0.225	ppbv	97
13) Ethanol	1.722	45	357639	121.331	ppbv	98
15) Acetone	1.842	43	5690107	287.779	ppbv #	17
19) Isopropyl Alcohol	1.897	45	4546385	406.914	ppbv #	36
20) Methylene Chloride	2.062	84	89672	15.850	ppbv	92
25) Ethyl Acetate	2.832	43	841516m	19.733	ppbv	
34) 2-Butanone	2.557	43	14010	0.548	ppbv	99
35) Carbon Tetrachloride	3.761	117	2513	0.091	ppbv #	84
36) Benzene	3.654	78	5665	0.163	ppbv	98
43) Methyl Methacrylate	4.871	69	1199833	65.204	ppbv	96
52) Tetrachloroethene	8.218	164	477m	0.037	ppbv	
53) Toluene	6.920	91	18366	0.447	ppbv	100
59) m/p-Xylene	9.526	91	5545m	0.120	ppbv	
61) Styrene	9.862	104	2236m	0.110	ppbv	

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

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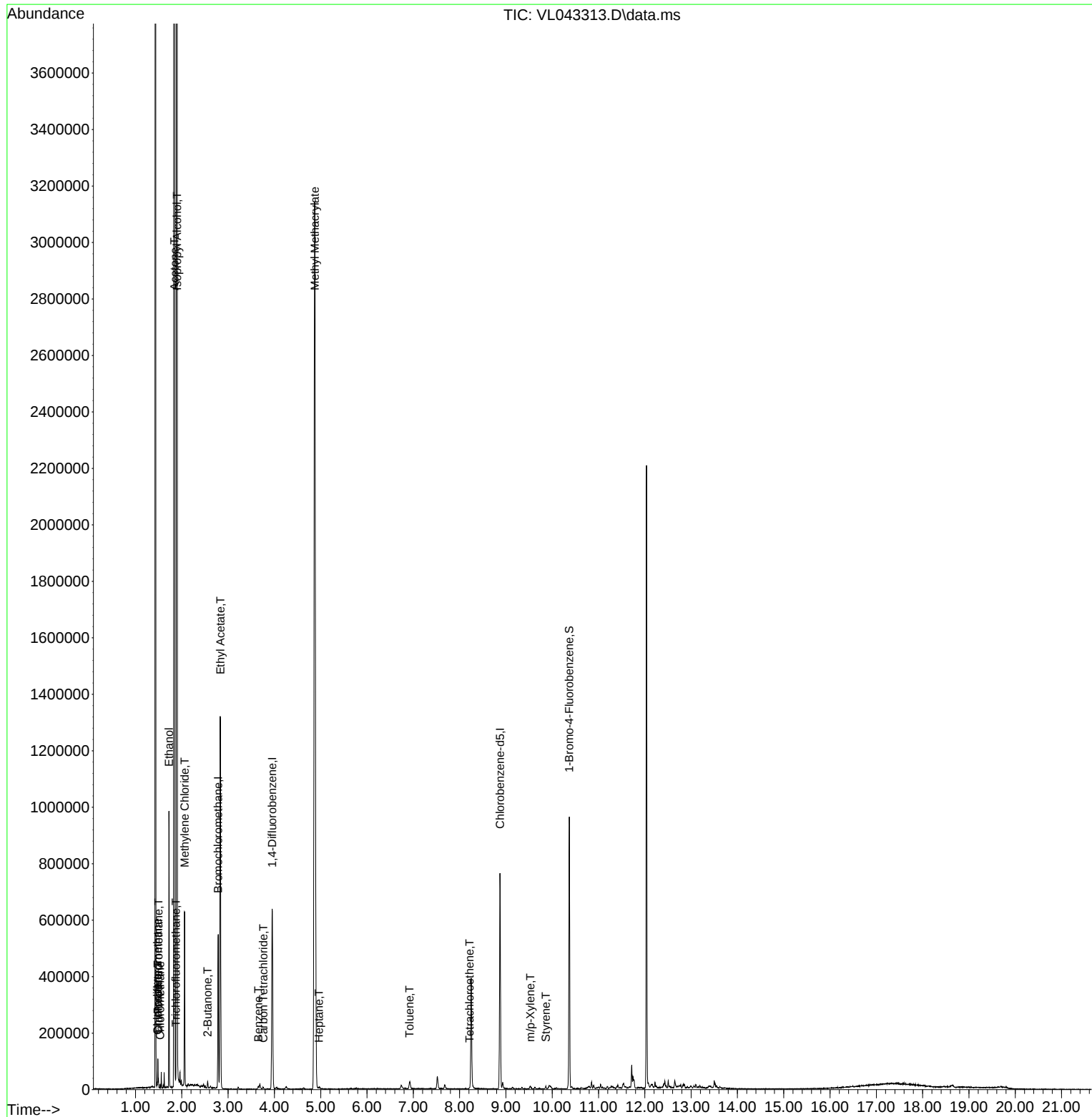
Quant Time: Dec 09 00:11:53 2025

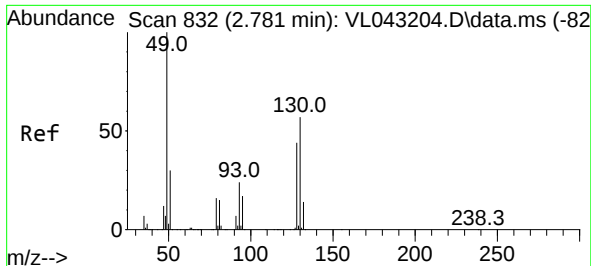
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug

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

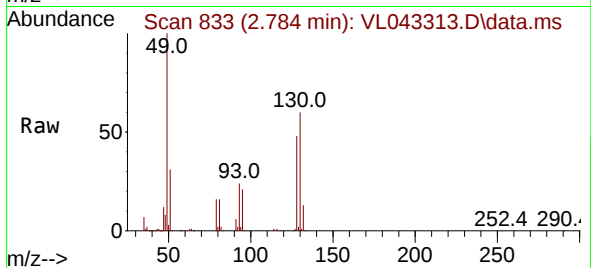
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

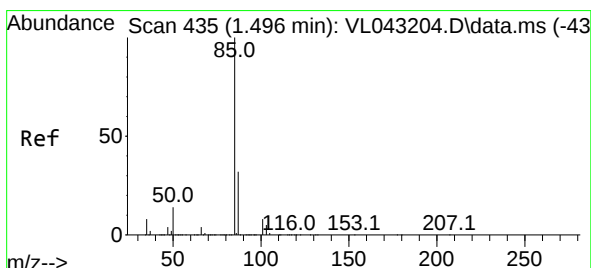
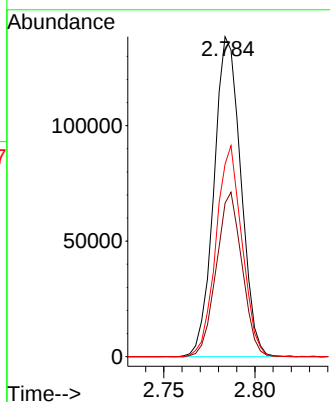
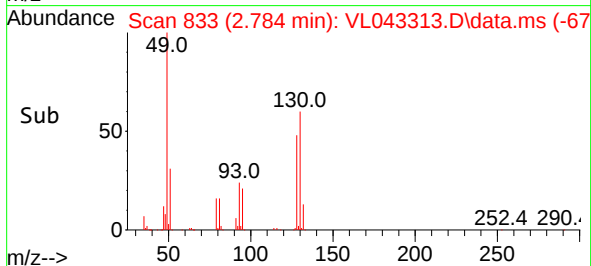
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1



Tgt Ion: 49 Resp: 142310
Ion Ratio Lower Upper
49 100
128 49.2 23.0 69.0
130 63.6 29.9 89.7

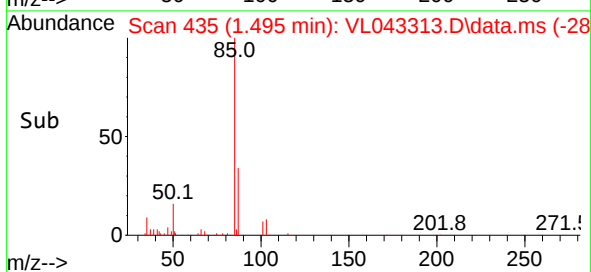
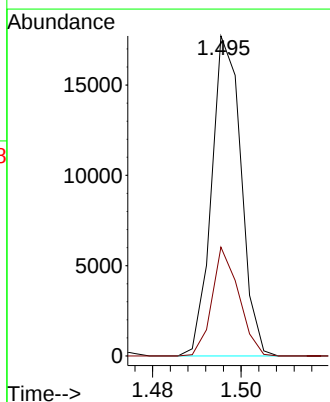
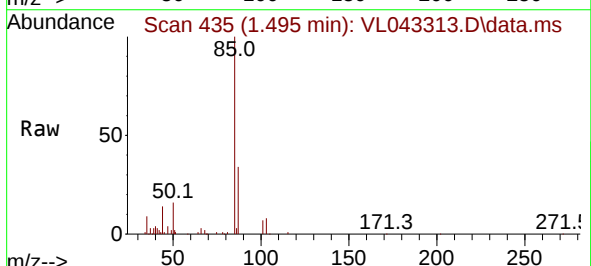
Manual Integrations
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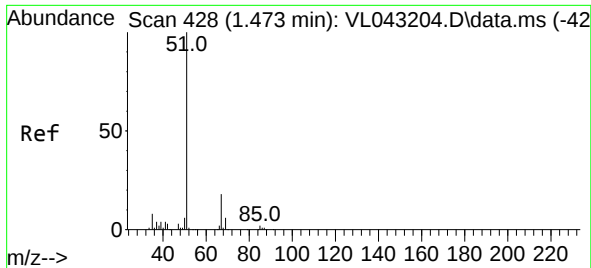
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#2
Dichlorodifluoromethane
Concen: 0.410 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

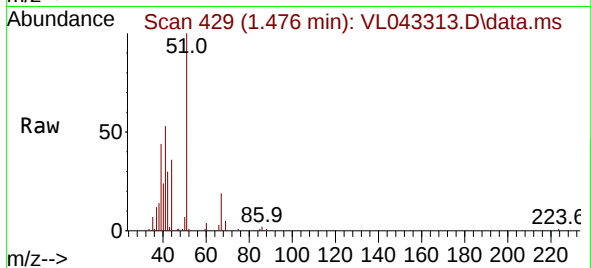
Tgt Ion: 85 Resp: 8224
Ion Ratio Lower Upper
85 100
87 34.0 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.216 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

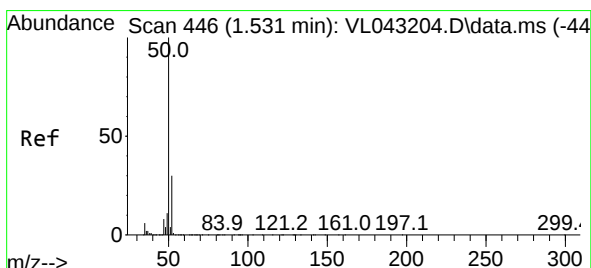
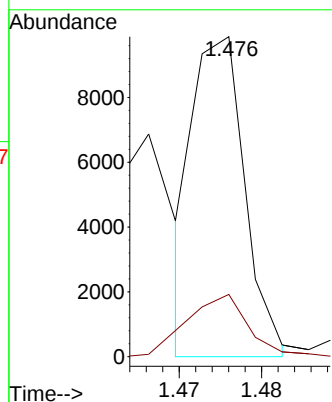
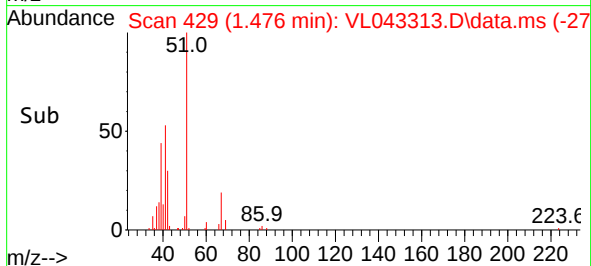
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1



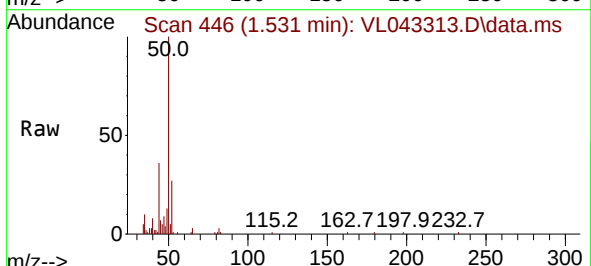
Tgt Ion: 51 Resp: 426
Ion Ratio Lower Upper
51 100
67 23.6 14.9 22.3

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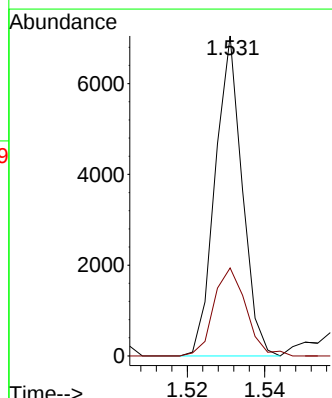
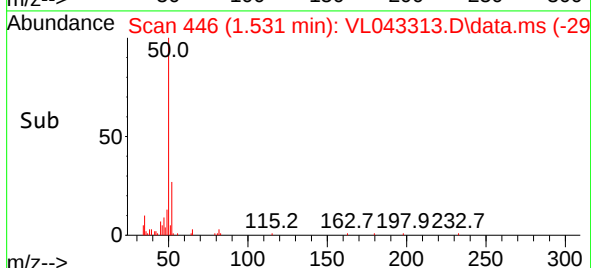
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

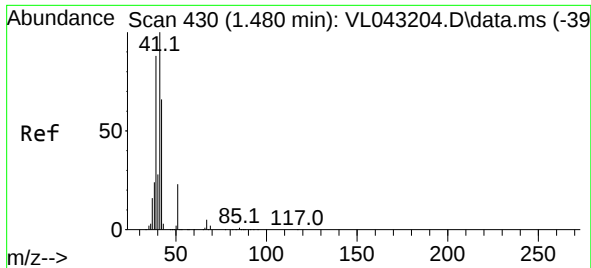


#4
Chloromethane
Concen: 0.456 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29



Tgt Ion: 50 Resp: 3421
Ion Ratio Lower Upper
50 100
52 27.5 24.1 36.1





#9

Propene

Concen: 1.776 ppbv

RT: 1.482 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043313.D

Acq: 08 Dec 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

10-IA-1

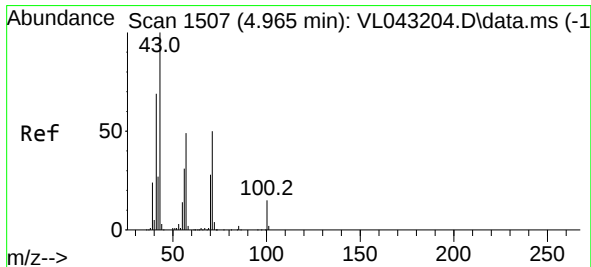
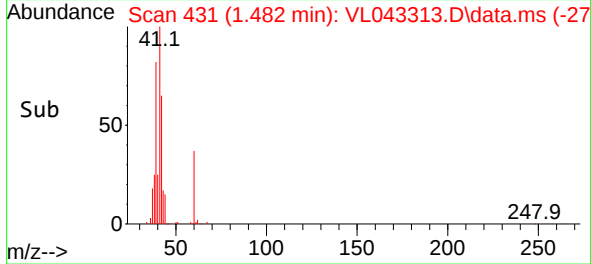
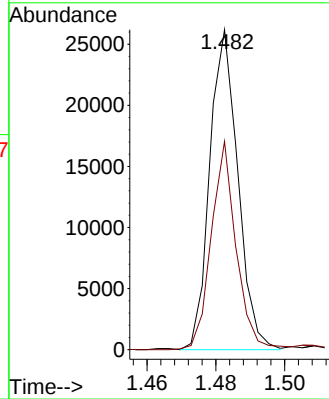
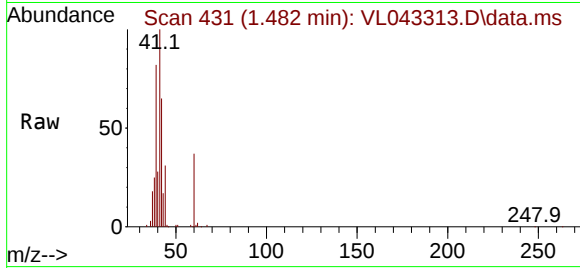
Tgt Ion: 41 Resp: 1488

Ion	Ratio	Lower	Upper
41	100		
42	0.0	3.7	5.5

Manual Integrations

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#10

Heptane

Concen: 0.171 ppbv m

RT: 4.962 min Scan# 1506

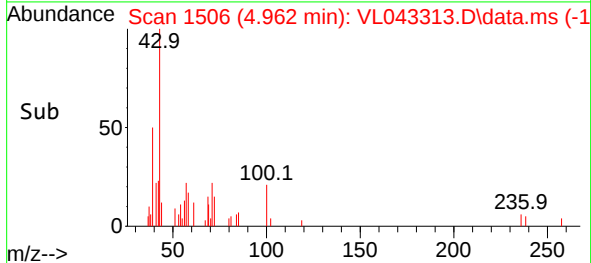
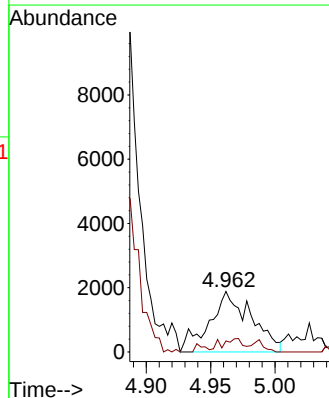
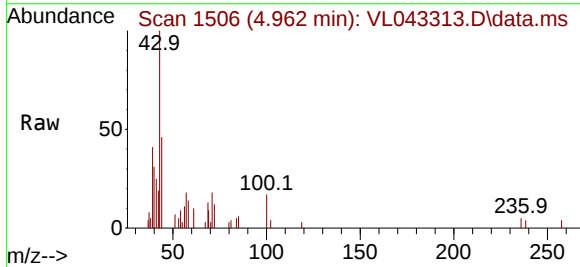
Delta R.T. -0.004 min

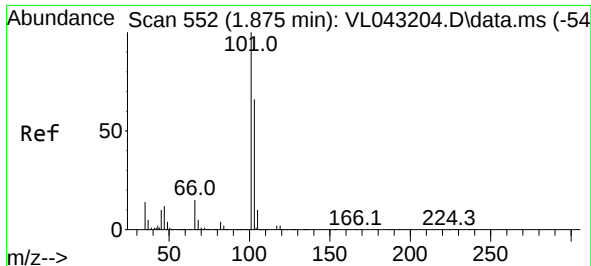
Lab File: VL043313.D

Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 4267

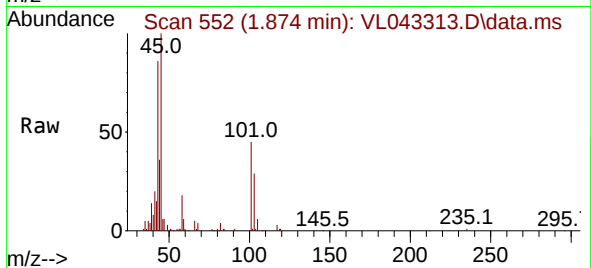
Ion	Ratio	Lower	Upper
43	100		
57	19.5	39.7	59.5





#11
 Trichlorofluoromethane
 Concen: 0.225 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL043313.D
 Acq: 08 Dec 2025 14:29

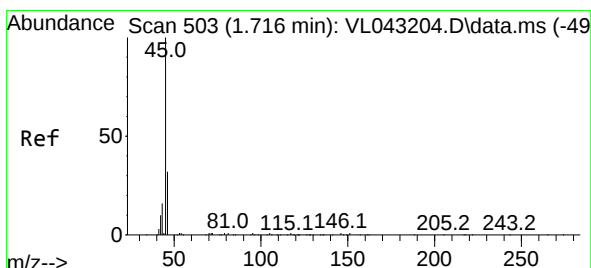
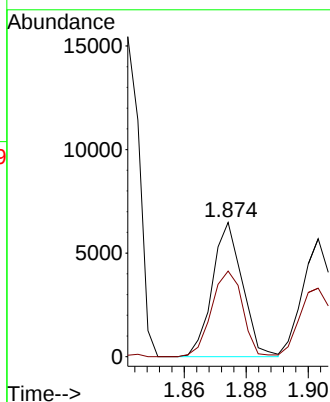
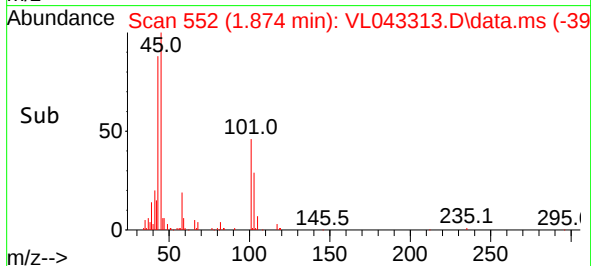
Instrument :
 MSVOA_L
 ClientSampleId :
 10-IA-1



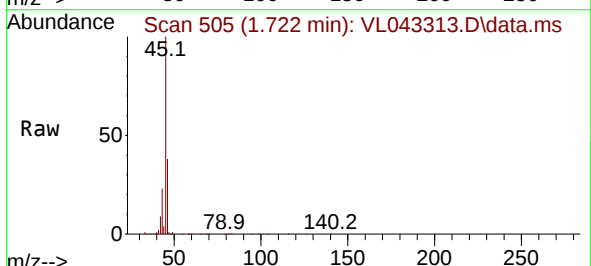
Tgt Ion:101 Resp: 4374
 Ion Ratio Lower Upper
 101 100
 103 63.7 52.6 79.0

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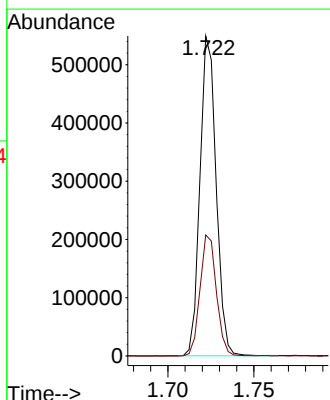
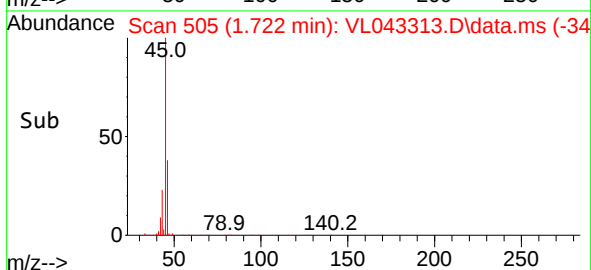
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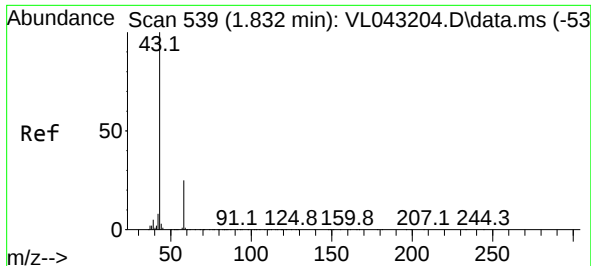


#13
 Ethanol
 Concen: 121.331 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.006 min
 Lab File: VL043313.D
 Acq: 08 Dec 2025 14:29



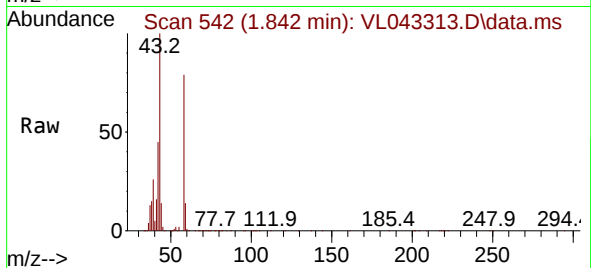
Tgt Ion: 45 Resp: 357639
 Ion Ratio Lower Upper
 45 100
 46 38.4 15.0 59.8





#15
Acetone
Concen: 287.779 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.009 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

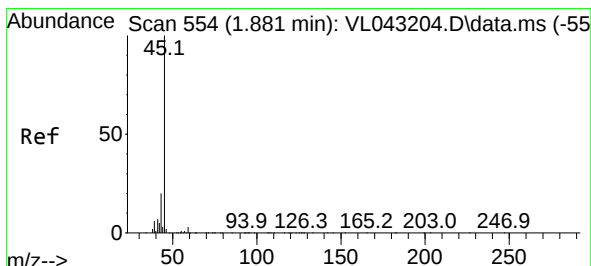
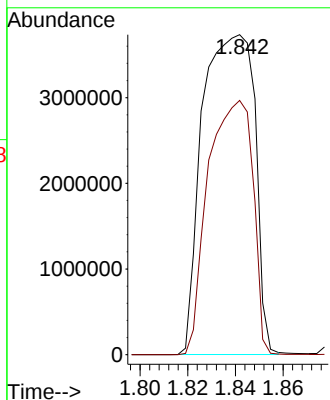
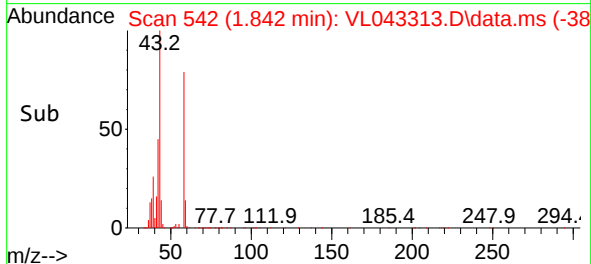
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1



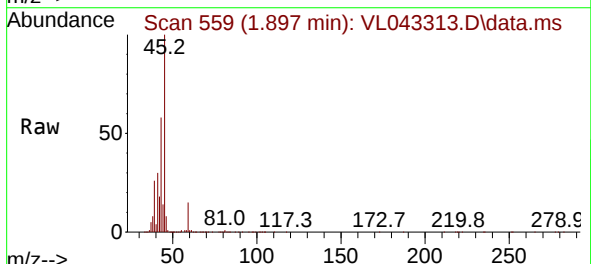
Tgt Ion: 43 Resp: 569010
Ion Ratio Lower Upper
43 100
58 68.0 20.7 31.1

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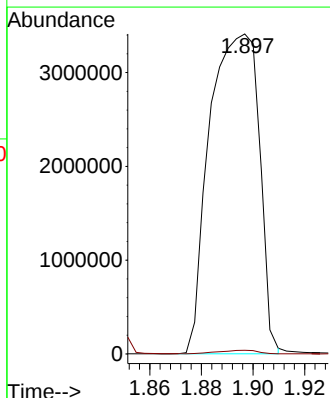
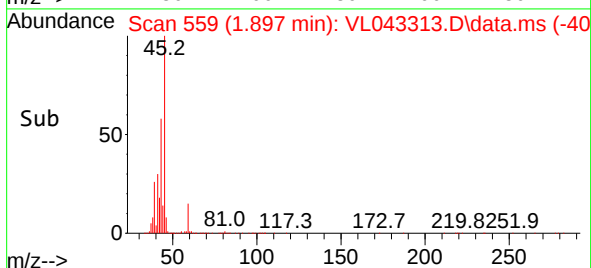
Reviewed By :Semsettin Yesilyurt 12/09/2025
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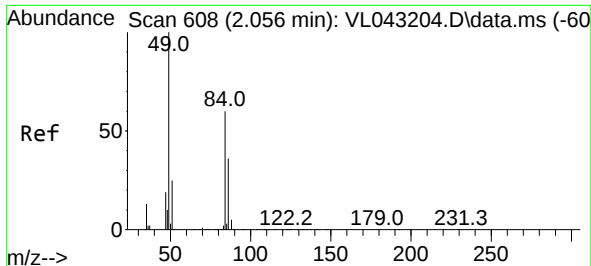


#19
Isopropyl Alcohol
Concen: 406.914 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.016 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29



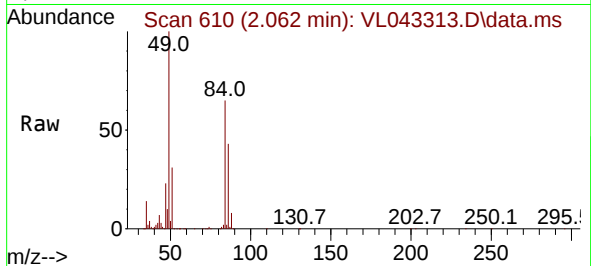
Tgt Ion: 45 Resp: 4546385
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9





#20
Methylene Chloride
Concen: 15.850 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

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

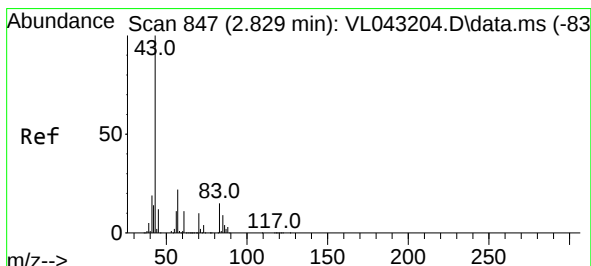
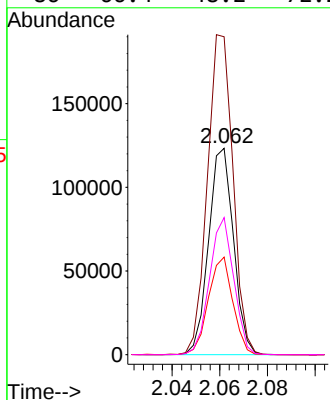
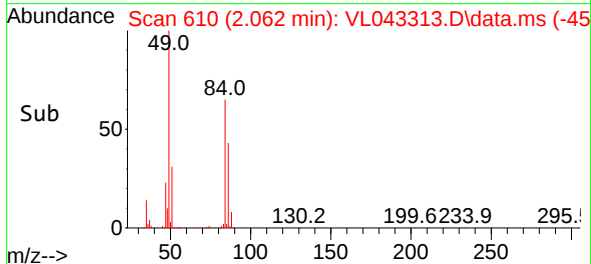


Tgt Ion: 84 Resp: 89672

Ion	Ratio	Lower	Upper
84	100		
49	154.0	132.9	199.3
51	47.3	34.8	52.2
86	66.4	48.2	72.2

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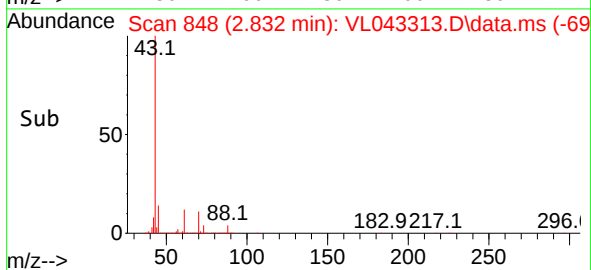
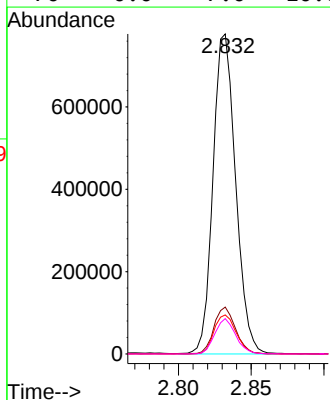
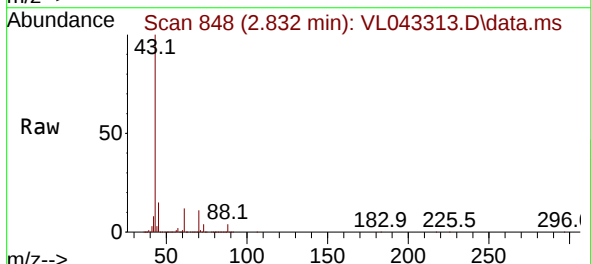
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

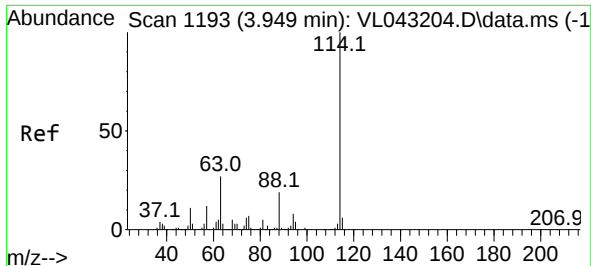


#25
Ethyl Acetate
Concen: 19.733 ppbv m
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 841516

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.0	10.4#
70	0.0	7.0	10.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043313.D

Acq: 08 Dec 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

10-IA-1

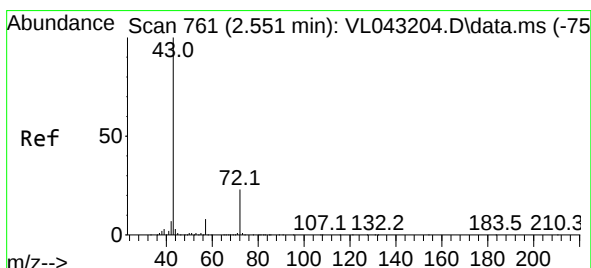
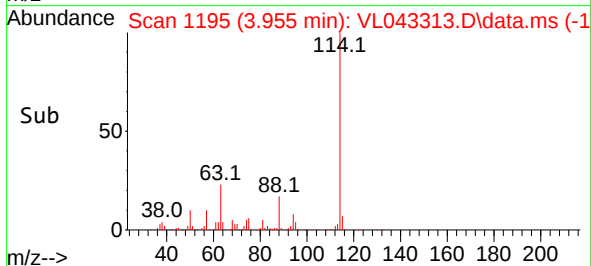
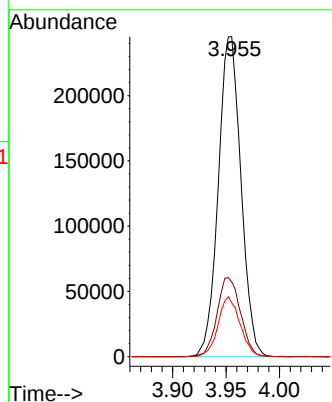
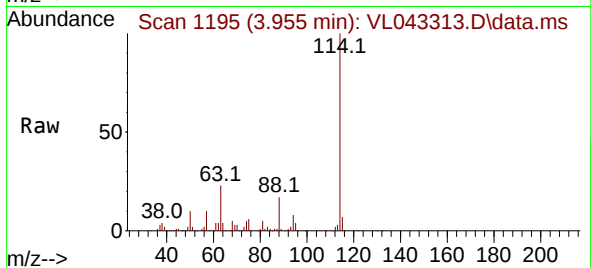
Tgt Ion:114 Resp: 36199

Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.0	31.6
88	18.1	14.9	22.3

Manual Integrations

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#34

2-Butanone

Concen: 0.548 ppbv

RT: 2.557 min Scan# 763

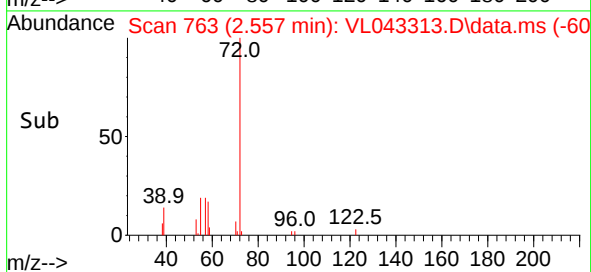
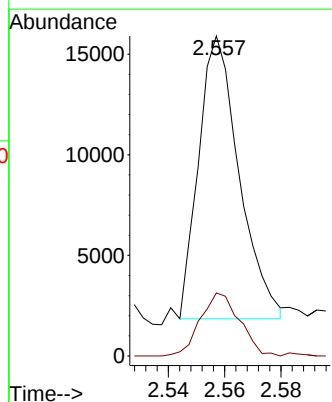
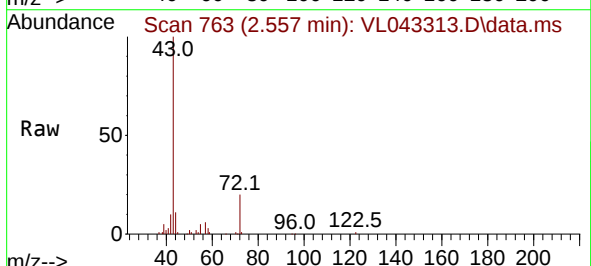
Delta R.T. 0.006 min

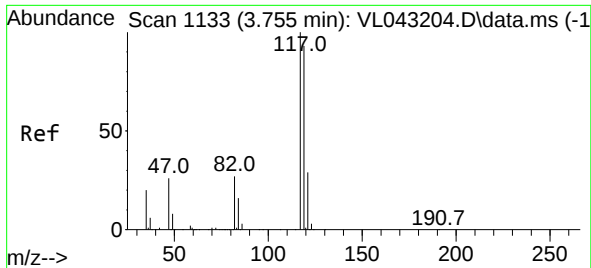
Lab File: VL043313.D

Acq: 08 Dec 2025 14:29

Tgt Ion: 43 Resp: 14010

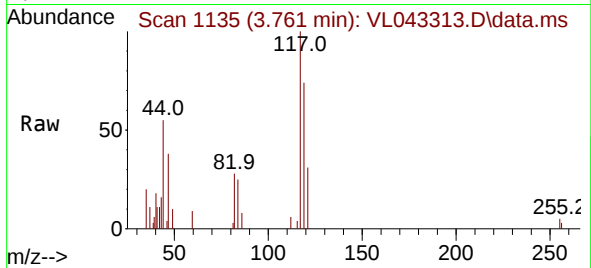
Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.1	27.1





#35
Carbon Tetrachloride
Concen: 0.091 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

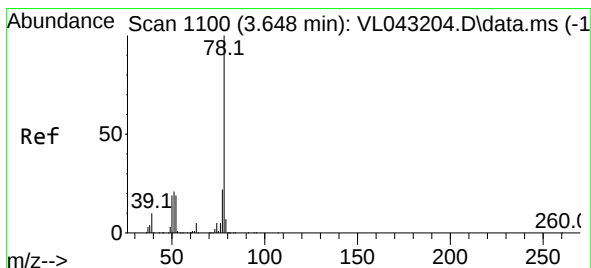
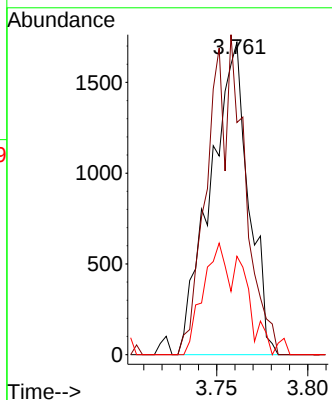
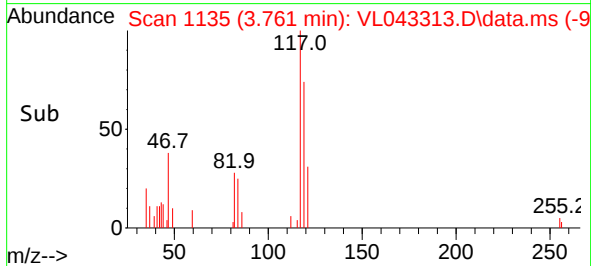
Instrument : MSVOA_L
ClientSampleId : 10-IA-1



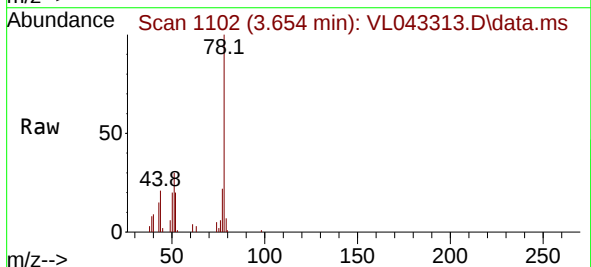
Tgt Ion: 117 Resp: 251
Ion Ratio Lower Upper
117 100
119 74.3 74.6 112.0
121 31.5 23.2 34.8

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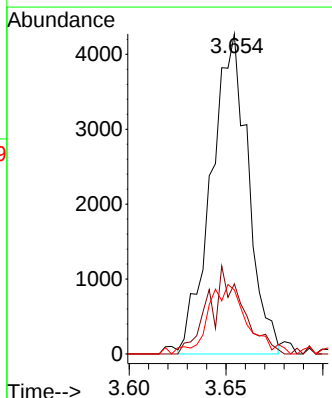
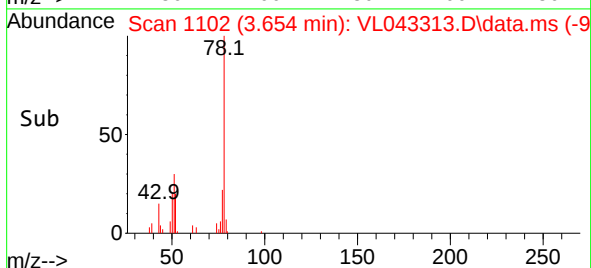
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025

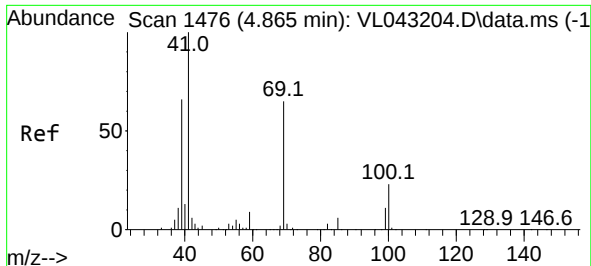


#36
Benzene
Concen: 0.163 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29



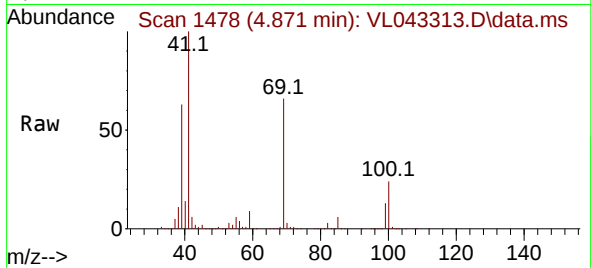
Tgt Ion: 78 Resp: 5665
Ion Ratio Lower Upper
78 100
77 22.2 17.5 26.3
50 18.3 15.5 23.3





#43
Methyl Methacrylate
Concen: 65.204 ppbv
RT: 4.871 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

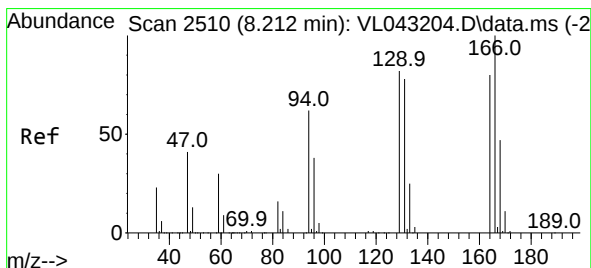
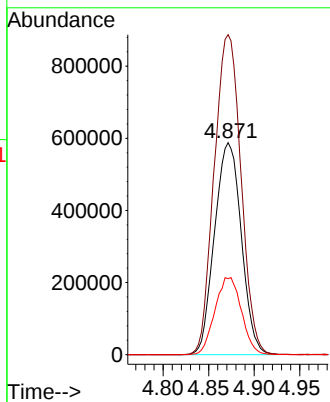
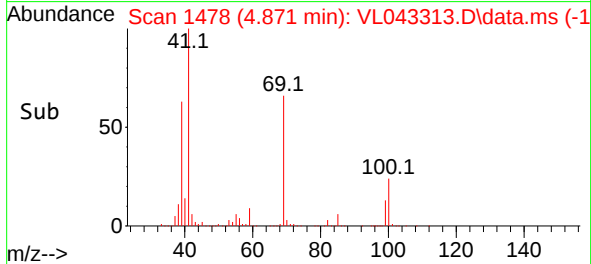
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1



Tgt Ion: 69 Resp: 119983
Ion Ratio Lower Upper
69 100
41 151.4 126.7 190.1
100 36.1 28.6 43.0

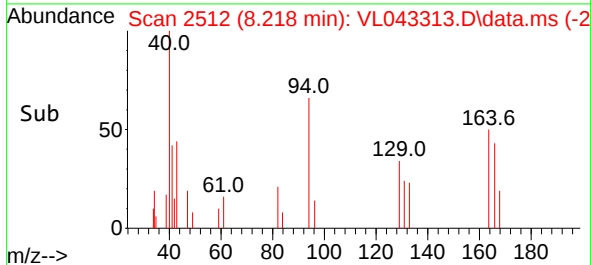
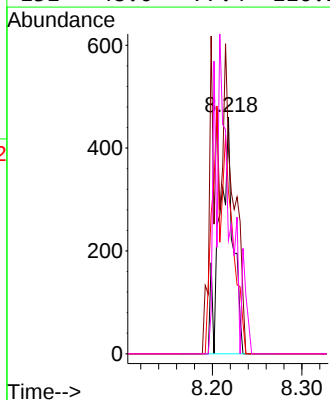
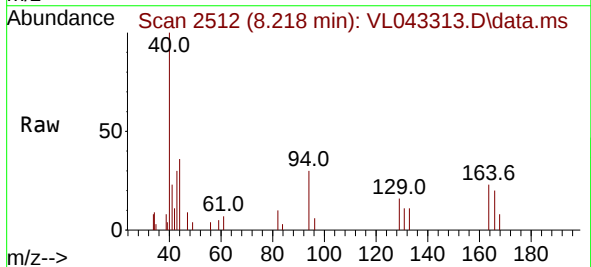
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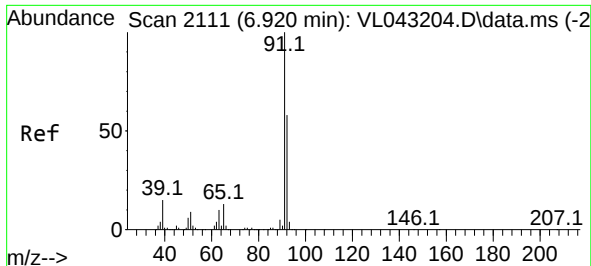
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#52
Tetrachloroethene
Concen: 0.037 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. 0.006 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

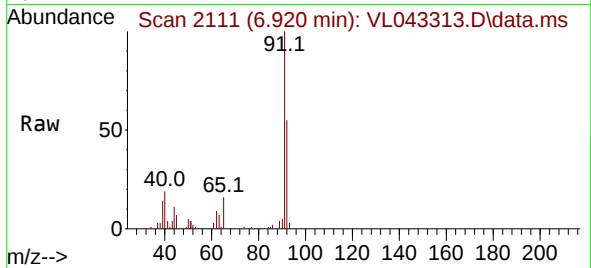
Tgt Ion:164 Resp: 477
Ion Ratio Lower Upper
164 100
166 86.3 99.4 149.2#
129 68.5 81.8 122.8#
131 48.0 77.4 116.2#





#53
Toluene
Concen: 0.447 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

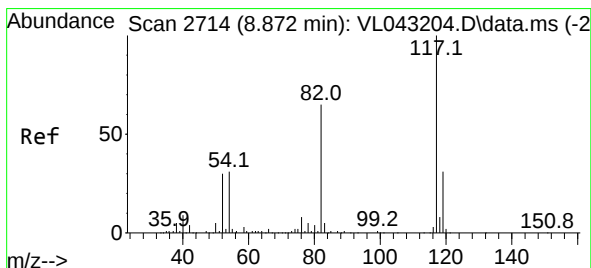
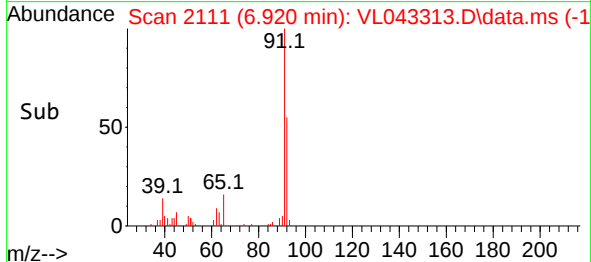
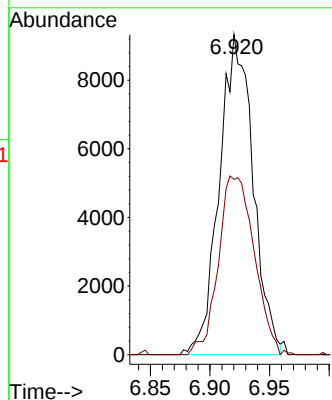
Instrument :
MSVOA_L
ClientSampleId :
10-IA-1



Tgt Ion: 91 Resp: 18360
Ion Ratio Lower Upper
91 100
92 59.4 47.4 71.0

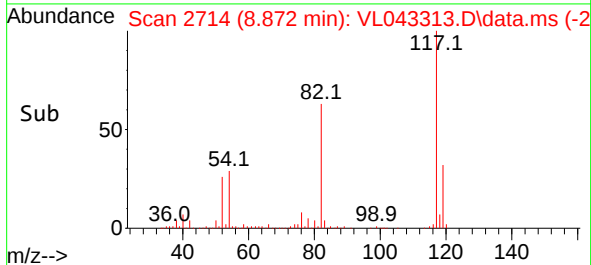
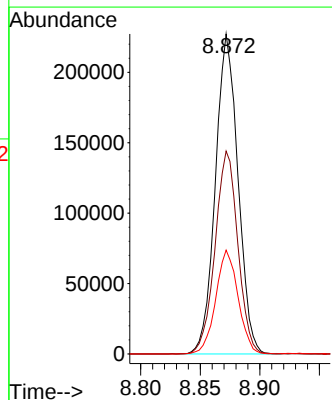
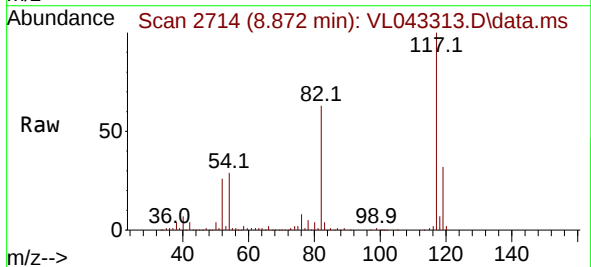
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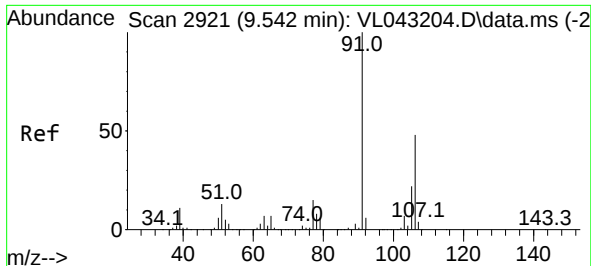
Reviewed By :Semsettin Yesilyurt 12/09/2025
Supervised By :Mahesh Dadoda 12/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043313.D
Acq: 08 Dec 2025 14:29

Tgt Ion:117 Resp: 299956
Ion Ratio Lower Upper
117 100
82 63.9 56.1 84.1
119 32.3 25.0 37.6





#59

m/p-Xylene

Concen: 0.120 ppbv m

RT: 9.526 min Scan# 2916

Delta R.T. -0.017 min

Lab File: VL043313.D

Acq: 08 Dec 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

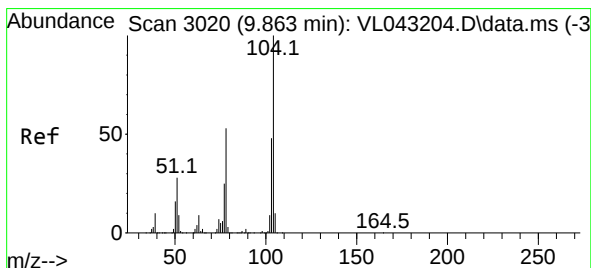
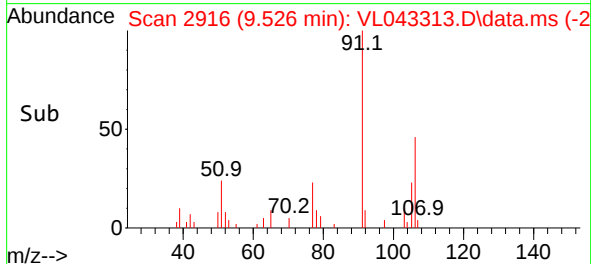
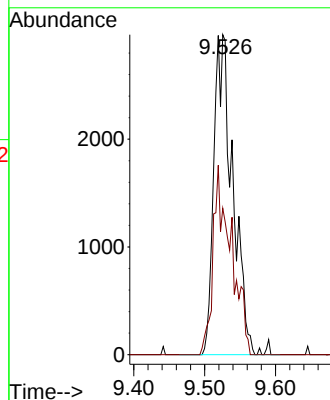
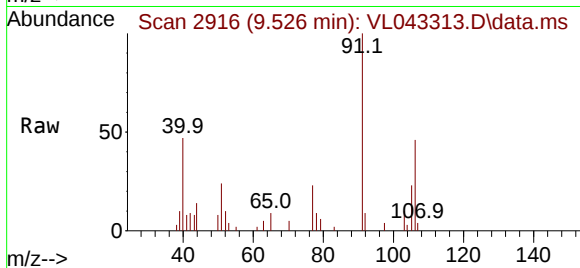
10-IA-1

Tgt Ion: 91 Resp: 5549
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.1 54.1

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



#61

Styrene

Concen: 0.110 ppbv m

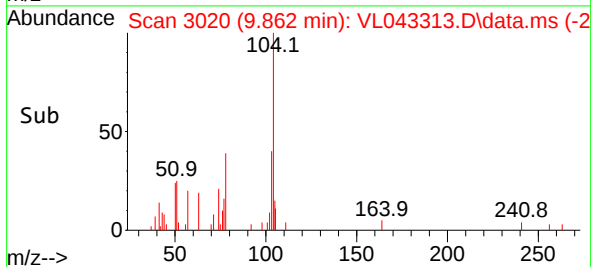
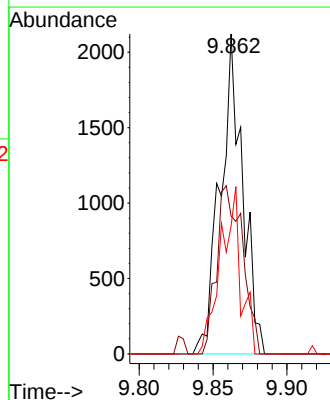
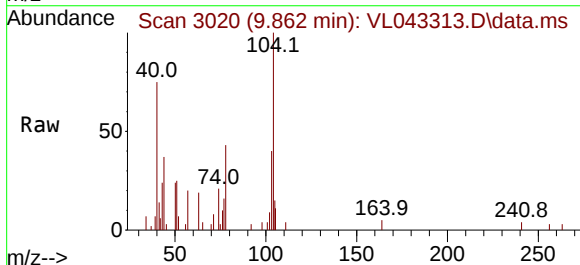
RT: 9.862 min Scan# 3020

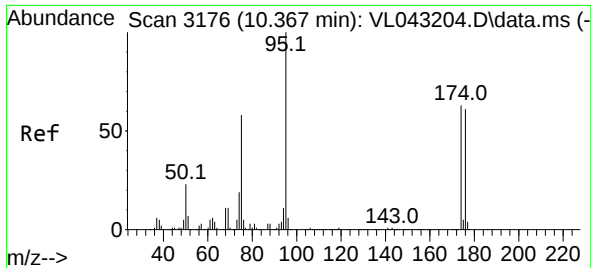
Delta R.T. -0.000 min

Lab File: VL043313.D

Acq: 08 Dec 2025 14:29

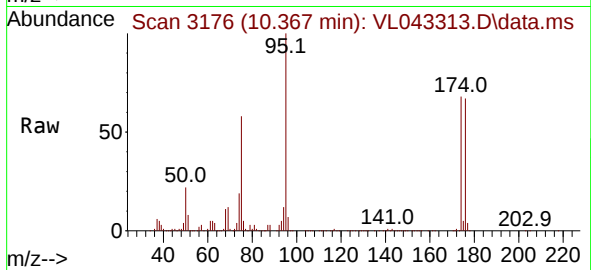
Tgt Ion:104 Resp: 2236
 Ion Ratio Lower Upper
 104 100
 78 0.0 42.1 63.1#
 103 0.0 37.2 55.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.363 ppbv
 RT: 10.367 min Scan# 3176
 Delta R.T. -0.000 min
 Lab File: VL043313.D
 Acq: 08 Dec 2025 14:29

Instrument :
 MSVOA_L
 ClientSampleId :
 10-IA-1



Tgt Ion: 95 Resp: 227860
 Ion Ratio Lower Upper
 95 100
 174 69.3 50.2 75.2
 175 4.9 4.1 6.1

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

