

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042803.D
 Acq On : 04 Aug 2025 14:03
 Operator : SY/MD
 Sample : Q2750-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
 Supervised By :Mahesh Dadoda 08/05/2025

Quant Time: Aug 05 01:05:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 5

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	164794	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	474917	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	410663	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 346200 10.645 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.500%

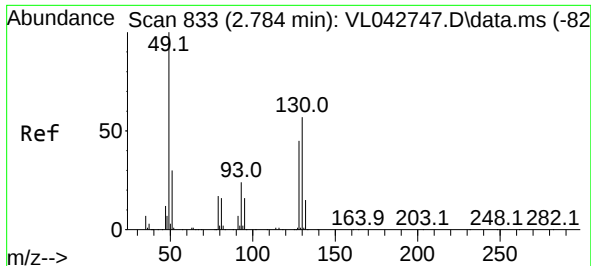
Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	11738m	0.539	ppbv	
3) Chlorodifluoromethane	1.473	51	1564377	55.117	ppbv #	84
4) Chloromethane	1.528	50	5862	0.665	ppbv	98
9) Propene	1.486	41	151819m	14.717	ppbv	
11) Trichlorofluoromethane	1.875	101	4804	0.214	ppbv	85
13) Ethanol	1.726	45	4625427	6156.946	ppbv	93
15) Acetone	1.833	43	2183939	95.974	ppbv #	80
19) Isopropyl Alcohol	1.988	45	26055478m	2154.676	ppbv	
20) Methylene Chloride	2.062	84	58902	8.214	ppbv	95
25) Ethyl Acetate	2.839	43	225209m	4.471	ppbv	
26) Hexane	2.823	57	145822	6.600	ppbv	96
27) Carbon Disulfide	2.147	76	60059	3.175	ppbv #	65
29) Chloroform	2.849	83	18805	0.551	ppbv	99
34) 2-Butanone	2.564	43	39111	1.163	ppbv	99
35) Carbon Tetrachloride	3.762	117	2200m	0.062	ppbv	
36) Benzene	3.655	78	11806	0.262	ppbv #	91
43) Methyl Methacrylate	4.878	69	2411m	0.151	ppbv	
53) Toluene	6.927	91	39418	0.816	ppbv	99
59) m/p-Xylene	9.529	91	11294m	0.218	ppbv	
61) Styrene	9.872	104	4275m	0.196	ppbv	
69) p-Isopropyltoluene	11.924	119	50306	0.639	ppbv	99
74) 1,2,4-Trimethylbenzene	11.533	105	9966	0.179	ppbv #	83
79) Naphthalene	13.510	128	2763	0.479	ppbv #	95

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

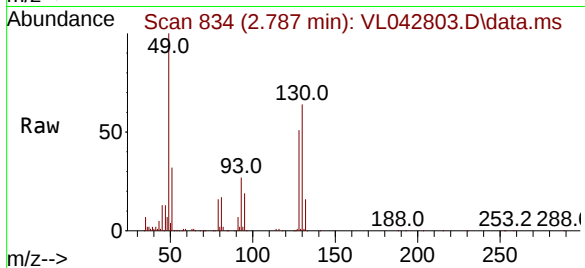
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

Page: 2



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

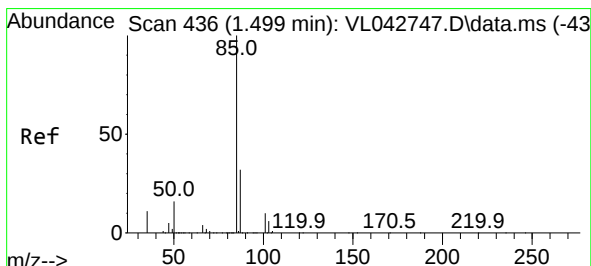
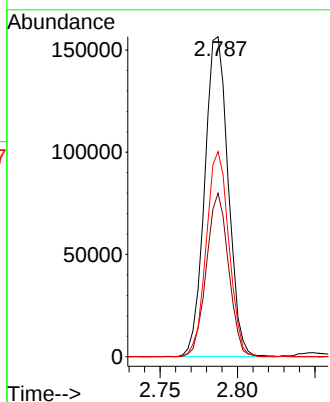
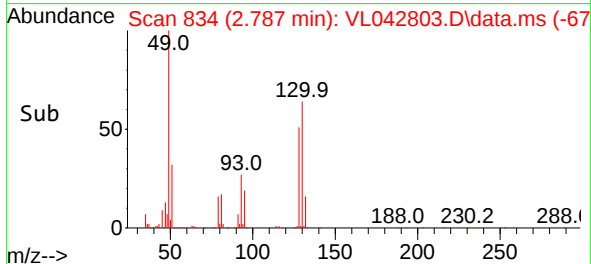
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5



Tgt Ion: 49 Resp: 164794
Ion Ratio Lower Upper
49 100
128 48.2 23.6 71.0
130 61.9 30.3 90.8

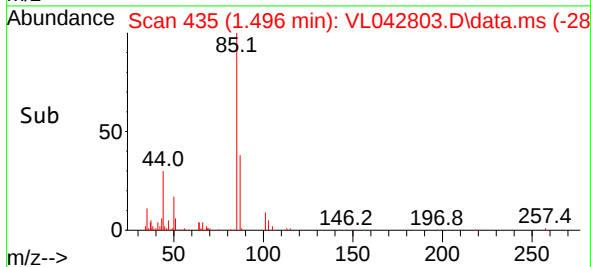
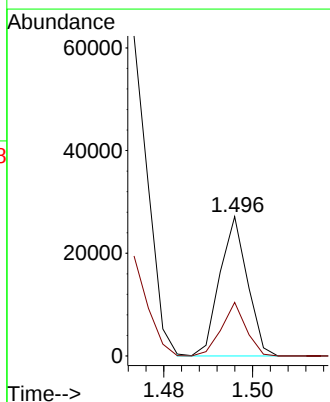
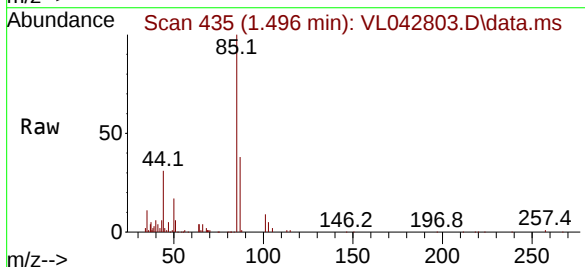
Manual Integrations
APPROVED

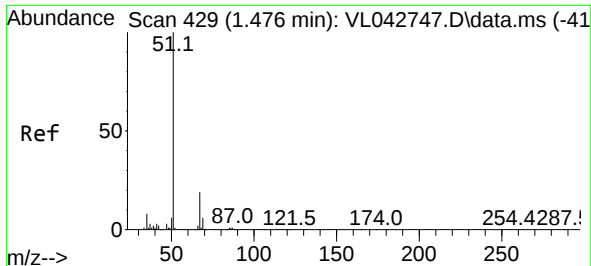
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#2
Dichlorodifluoromethane
Concen: 0.539 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

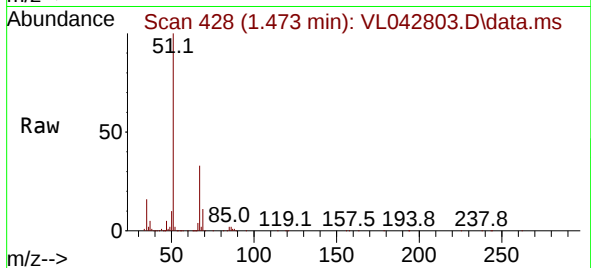
Tgt Ion: 85 Resp: 11738
Ion Ratio Lower Upper
85 100
87 38.5 25.4 38.2#





#3
Chlorodifluoromethane
Concen: 55.117 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

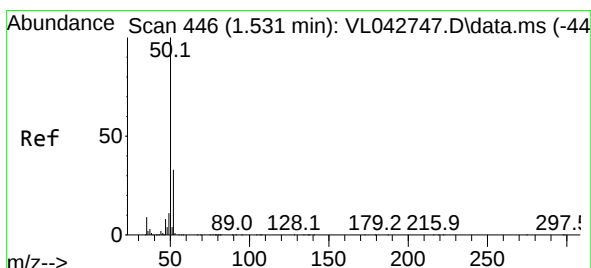
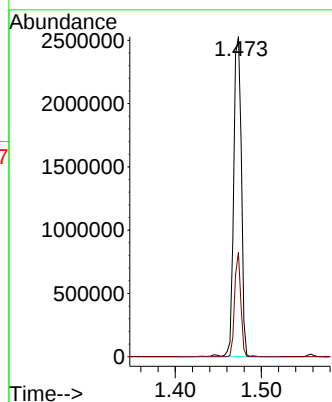
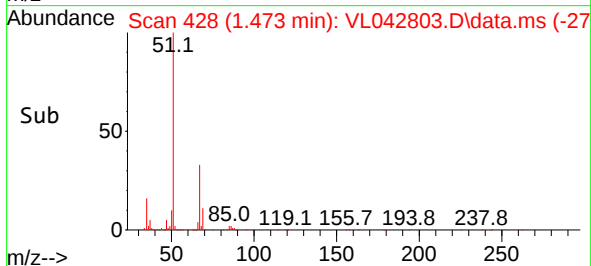
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5



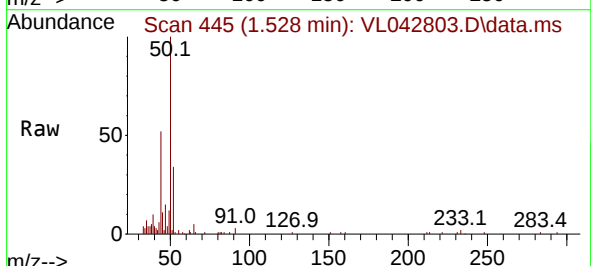
Tgt Ion: 51 Resp: 156437
Ion Ratio Lower Upper
51 100
67 25.9 15.0 22.6

Manual Integrations
APPROVED

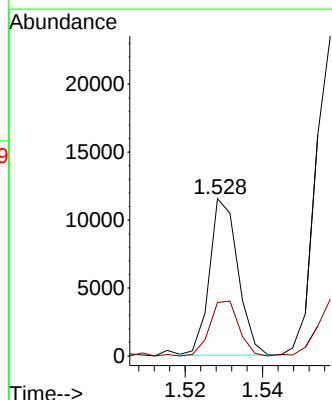
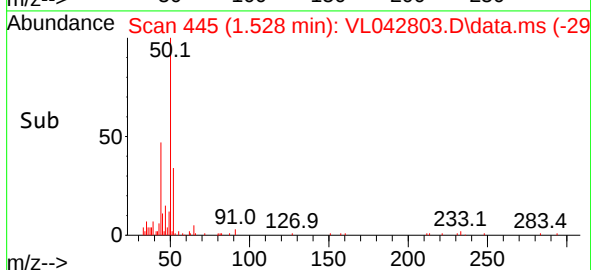
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

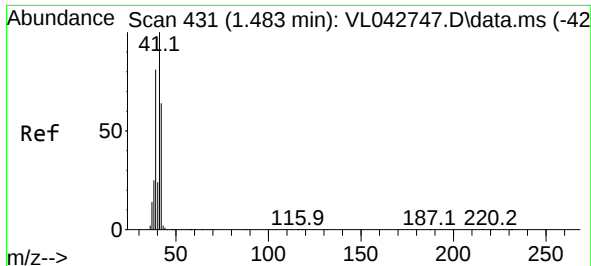


#4
Chloromethane
Concen: 0.665 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03



Tgt Ion: 50 Resp: 5862
Ion Ratio Lower Upper
50 100
52 34.3 26.6 40.0





#9

Propene

Concen: 14.717 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5

Tgt Ion: 41 Resp: 151819

Ion Ratio Lower Upper

41 100

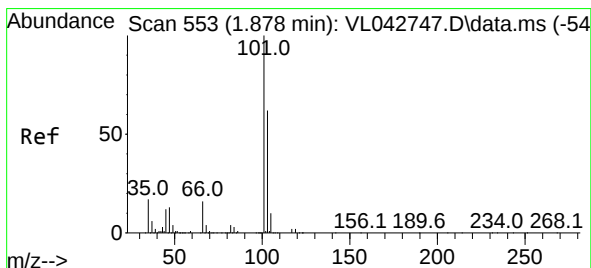
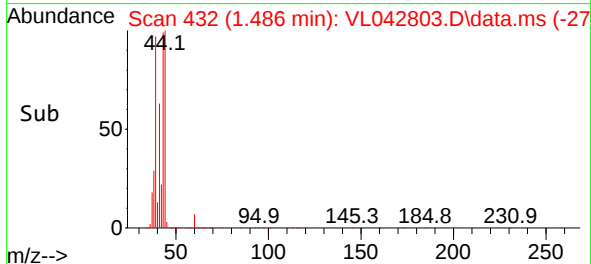
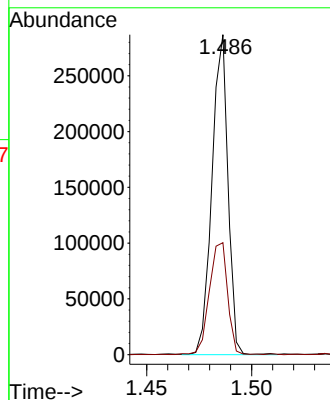
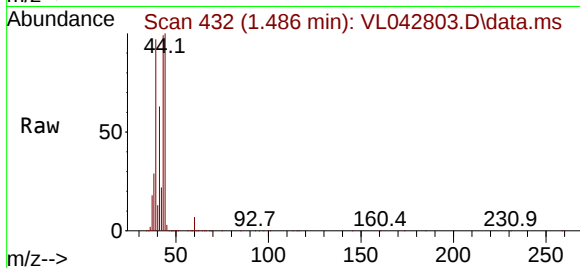
42 232.1 53.2 79.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025

Supervised By :Mahesh Dadoda 08/05/2025



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 1.875 min Scan# 552

Delta R.T. -0.003 min

Lab File: VL042803.D

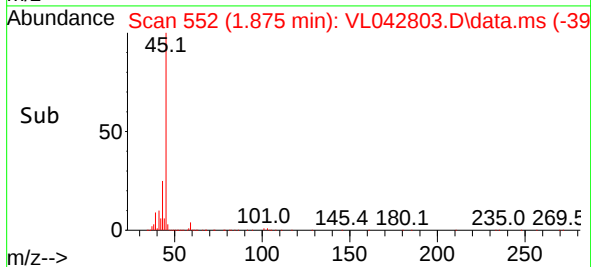
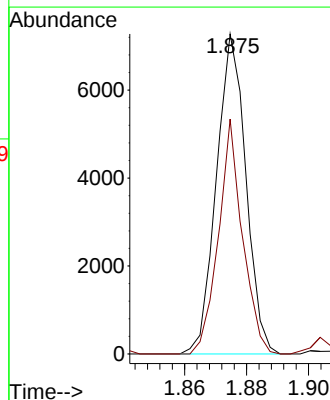
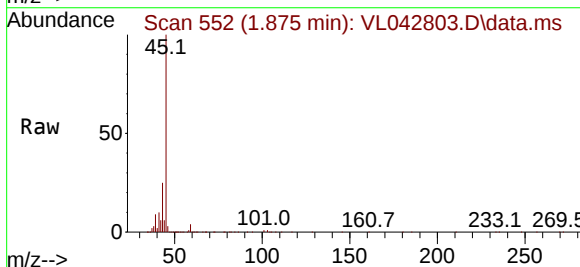
Acq: 04 Aug 2025 14:03

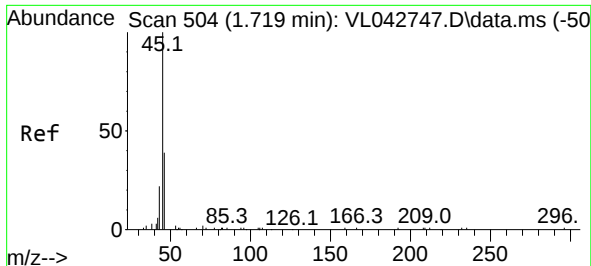
Tgt Ion:101 Resp: 4804

Ion Ratio Lower Upper

101 100

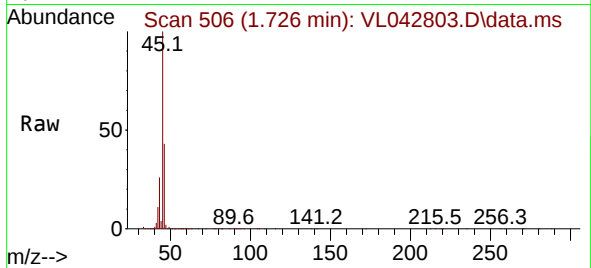
103 73.4 49.6 74.4





#13
Ethanol
Concen: 6156.946 ppbv
RT: 1.726 min Scan# 504
Delta R.T. 0.007 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

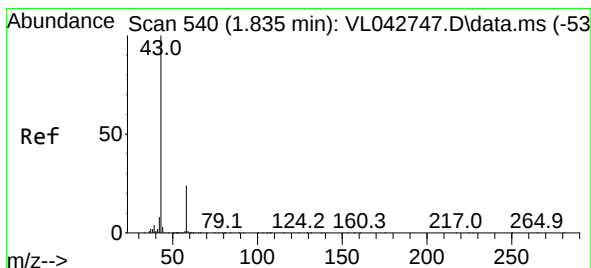
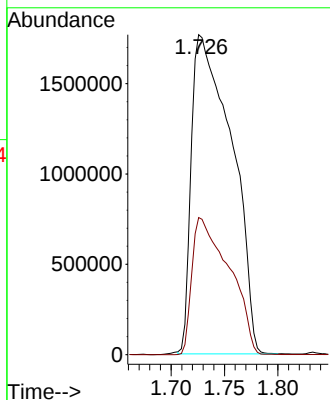
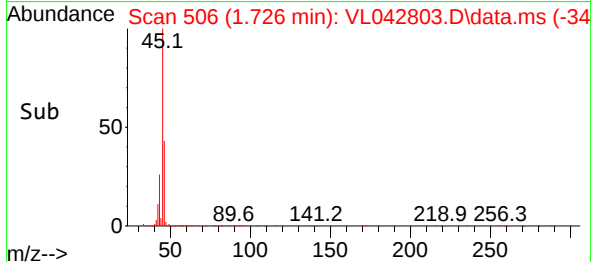
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5



Tgt Ion: 45 Resp: 462542
Ion Ratio Lower Upper
45 100
46 40.0 17.8 71.4

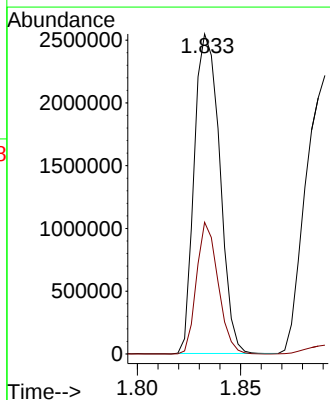
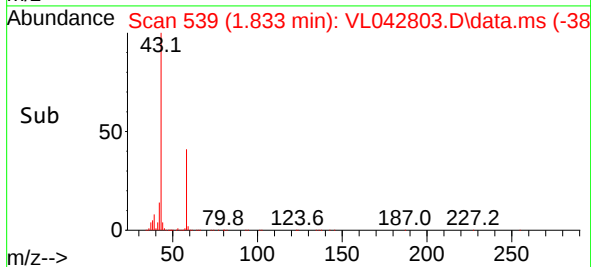
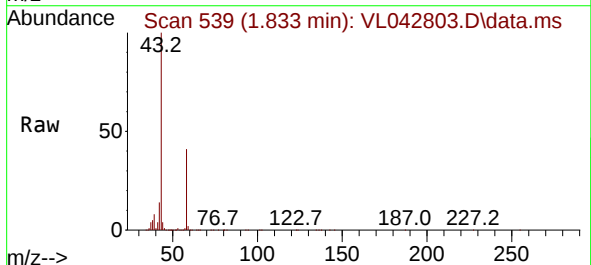
Manual Integrations
APPROVED

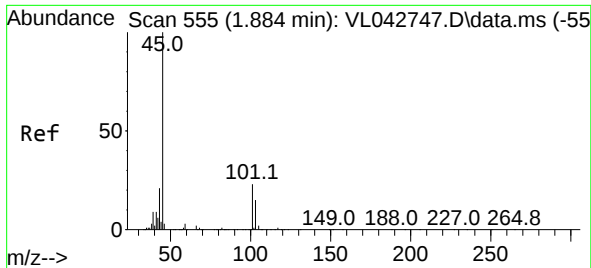
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#15
Acetone
Concen: 95.974 ppbv
RT: 1.833 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

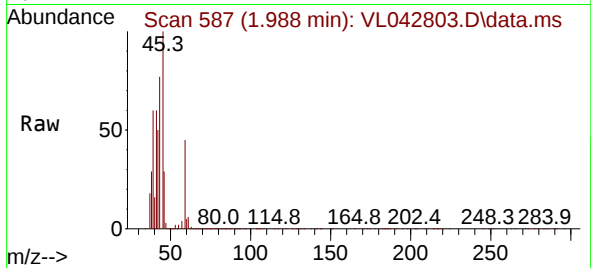
Tgt Ion: 43 Resp: 2183939
Ion Ratio Lower Upper
43 100
58 34.9 19.8 29.8#





#19
Isopropyl Alcohol
Concen: 2154.676 ppbv m
RT: 1.988 min Scan# 51
Delta R.T. 0.104 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

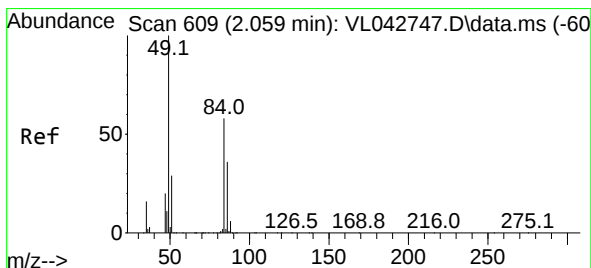
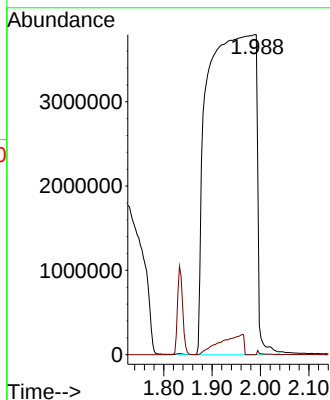
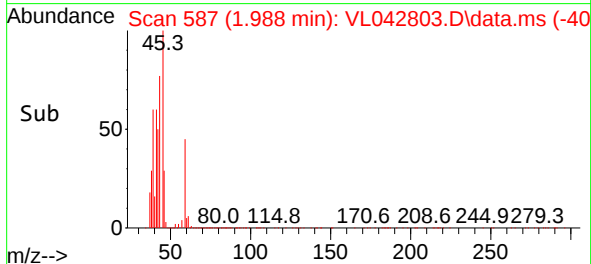
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5



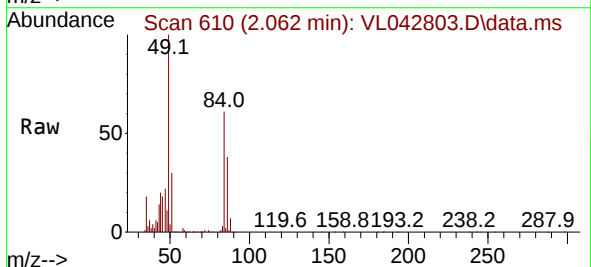
Tgt Ion: 45 Resp: 26055478
Ion Ratio Lower Upper
45 100
58 3.1 30.0 45.0

Manual Integrations
APPROVED

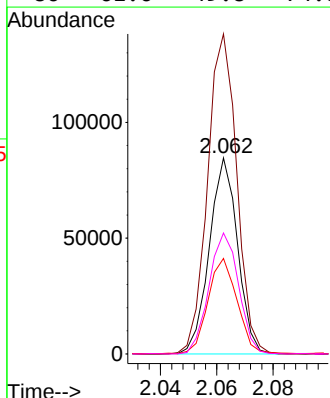
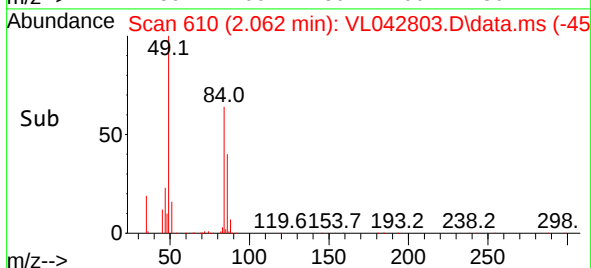
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

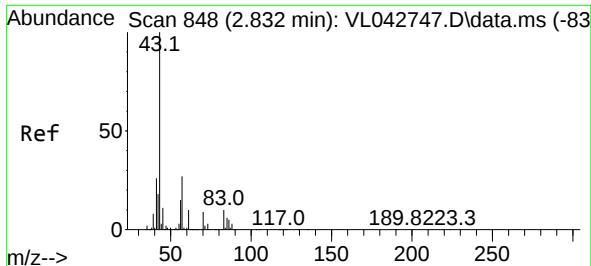


#20
Methylene Chloride
Concen: 8.214 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03



Tgt Ion: 84 Resp: 58902
Ion Ratio Lower Upper
84 100
49 162.9 138.6 208.0
51 48.6 40.6 61.0
86 61.6 49.8 74.8





#25

Ethyl Acetate

Concen: 4.471 ppbv m

RT: 2.839 min Scan# 848

Delta R.T. 0.007 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-5

Tgt Ion: 43 Resp: 225209

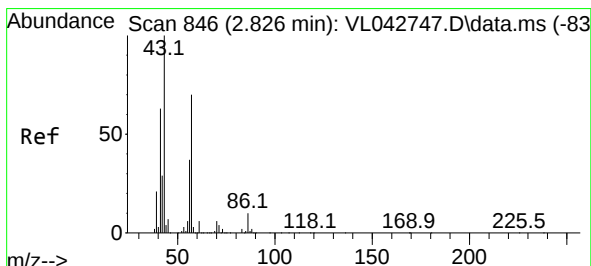
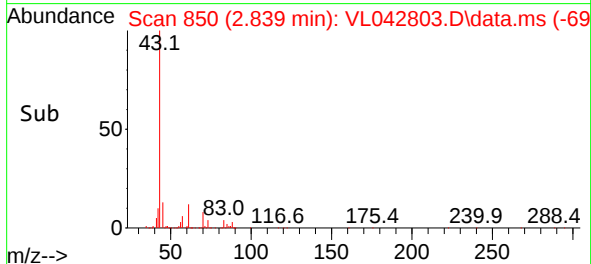
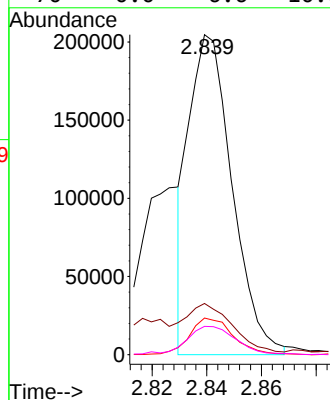
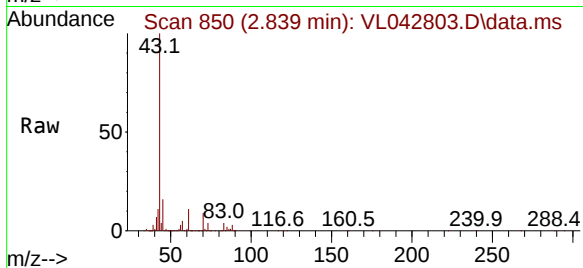
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6
61	0.0	6.7	10.1
70	0.0	6.6	10.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025

Supervised By :Mahesh Dadoda 08/05/2025



#26

Hexane

Concen: 6.600 ppbv

RT: 2.823 min Scan# 845

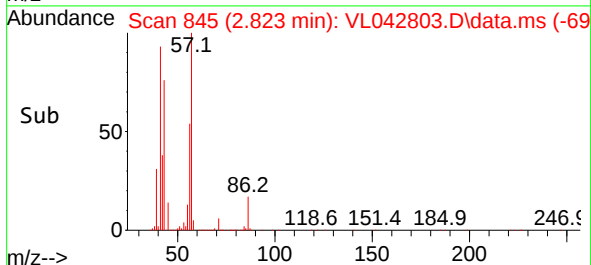
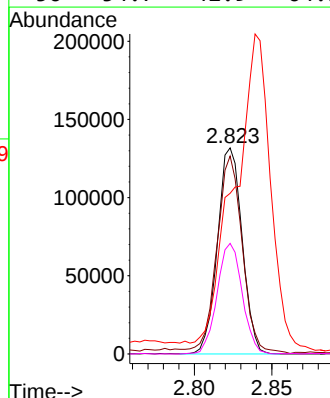
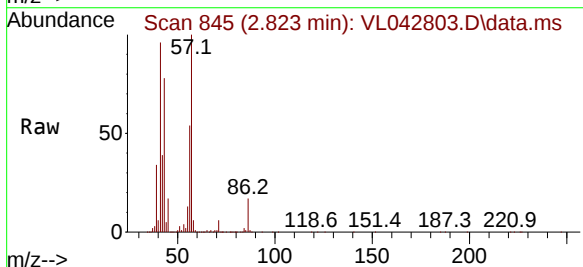
Delta R.T. -0.003 min

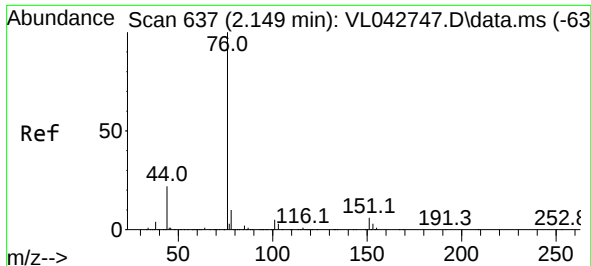
Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Tgt Ion: 57 Resp: 145822

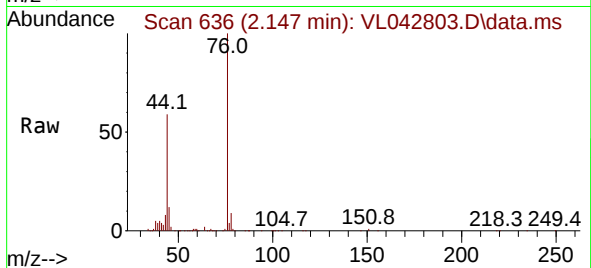
Ion	Ratio	Lower	Upper
57	100		
41	99.8	75.4	113.2
43	237.0	185.0	277.6
56	54.7	42.9	64.3





#27
Carbon Disulfide
Concen: 3.175 ppbv
RT: 2.147 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

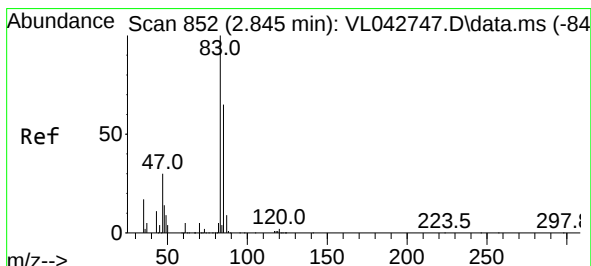
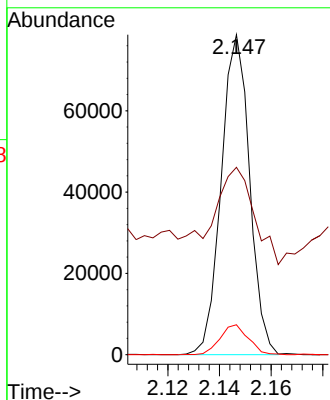
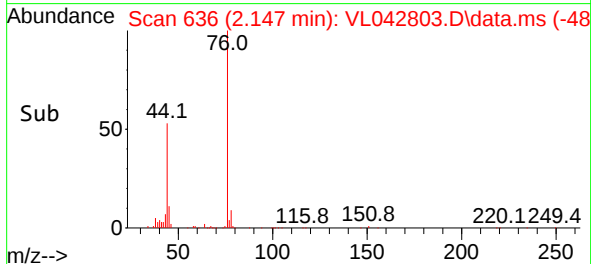
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5



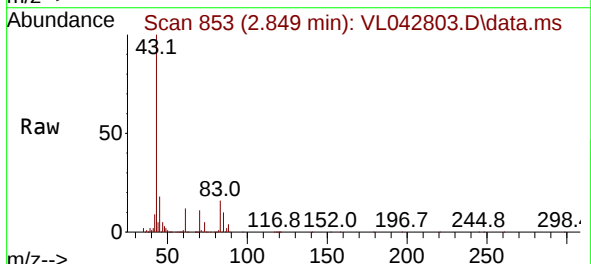
Tgt Ion: 76 Resp: 60059
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9
78 9.6 9.9 14.9

Manual Integrations
APPROVED

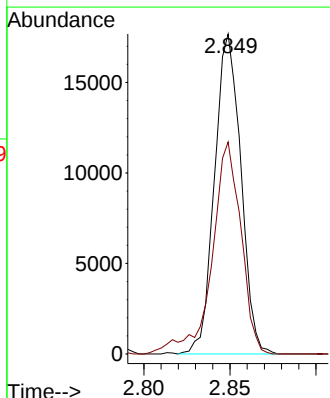
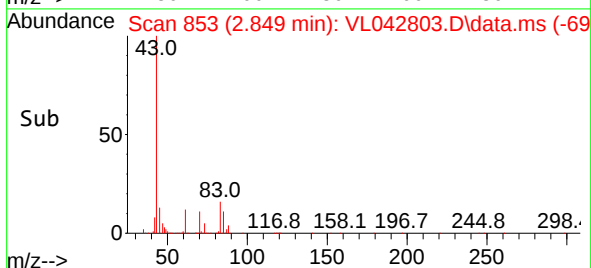
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

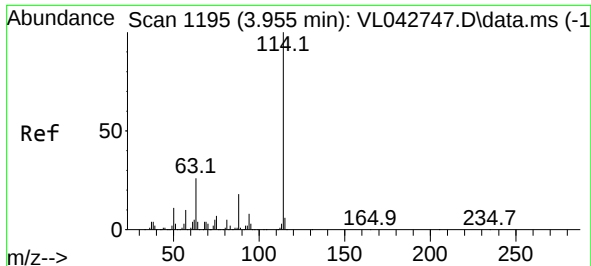


#29
Chloroform
Concen: 0.551 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03



Tgt Ion: 83 Resp: 18805
Ion Ratio Lower Upper
83 100
85 66.2 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

Instrument :

MSVOA_L

ClientSampleId :

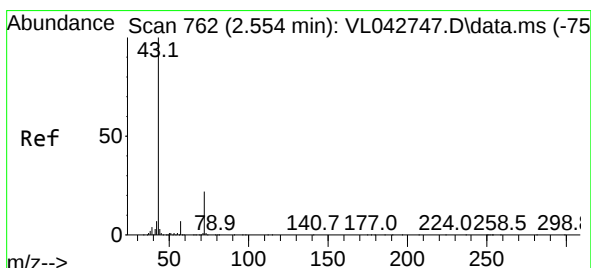
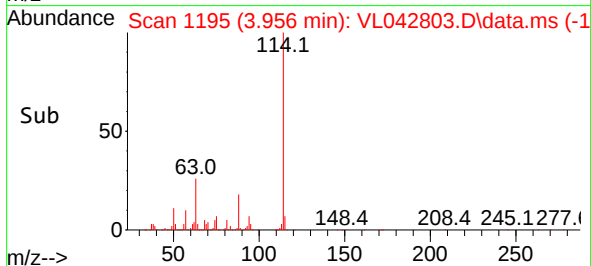
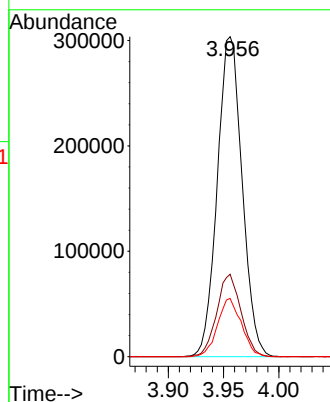
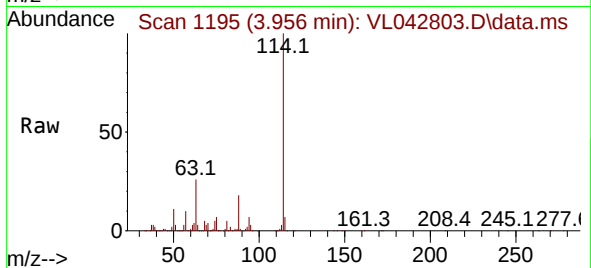
WONDER IA-5

Tgt Ion:	114	Resp:	47491
Ion Ratio	Lower	Upper	
114	100		
63	25.1	20.5	30.7
88	17.4	14.0	21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#34

2-Butanone

Concen: 1.163 ppbv

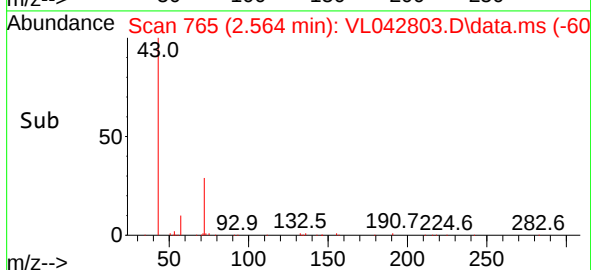
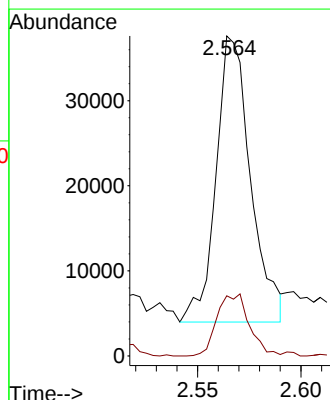
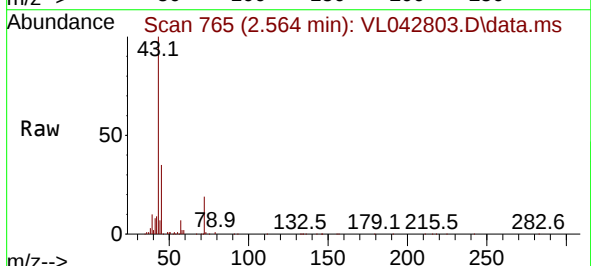
RT: 2.564 min Scan# 765

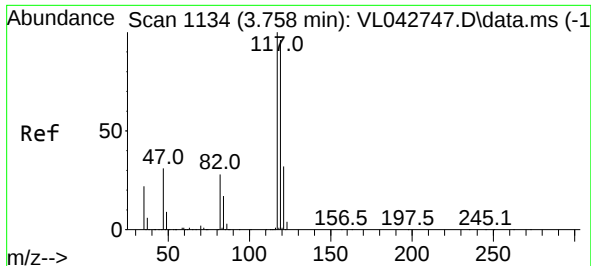
Delta R.T. 0.010 min

Lab File: VL042803.D

Acq: 04 Aug 2025 14:03

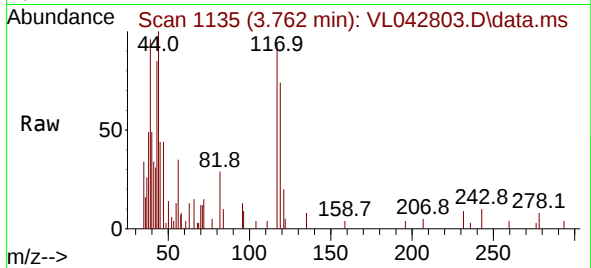
Tgt Ion:	43	Resp:	39111
Ion Ratio	Lower	Upper	
43	100		
72	21.1	17.4	26.0





#35
Carbon Tetrachloride
Concen: 0.062 ppbv m
RT: 3.762 min Scan# 1135
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

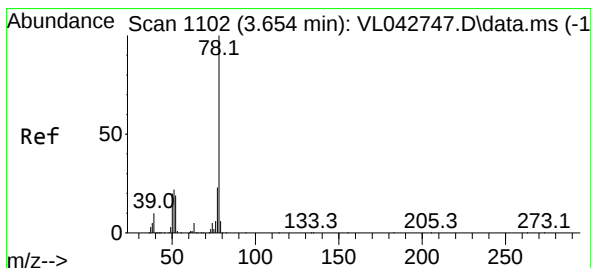
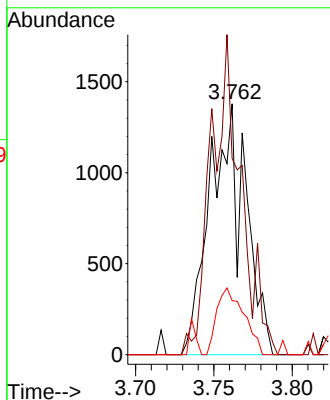
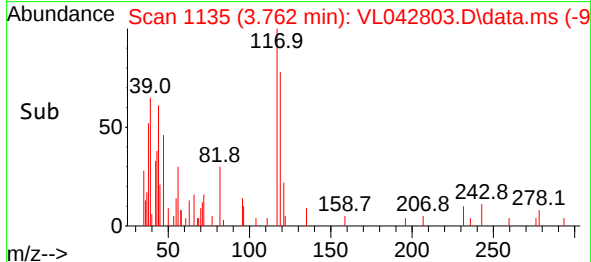
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5



Tgt Ion: 117 Resp: 2200
Ion Ratio Lower Upper
117 100
119 78.2 77.1 115.7
121 21.5 25.5 38.3

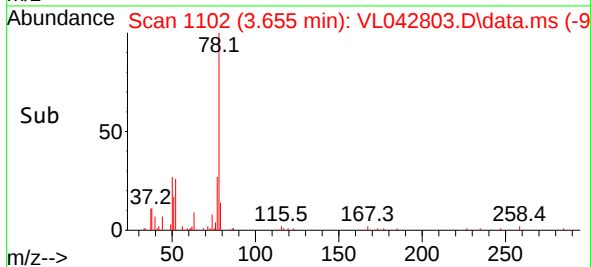
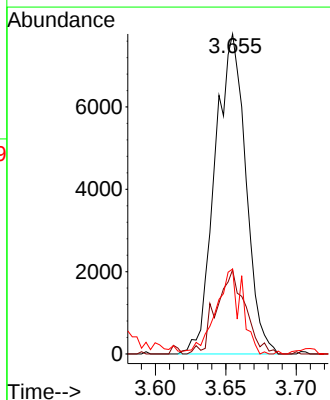
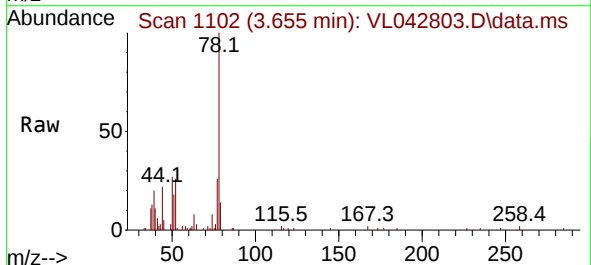
Manual Integrations
APPROVED

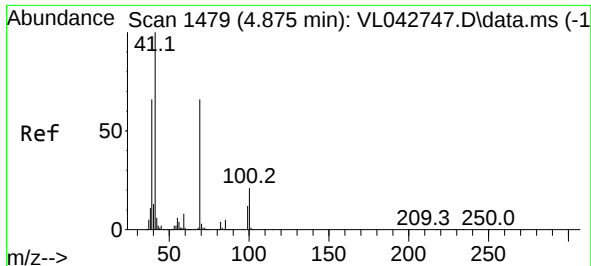
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#36
Benzene
Concen: 0.262 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 78 Resp: 11806
Ion Ratio Lower Upper
78 100
77 26.3 18.5 27.7
50 25.7 16.2 24.2#





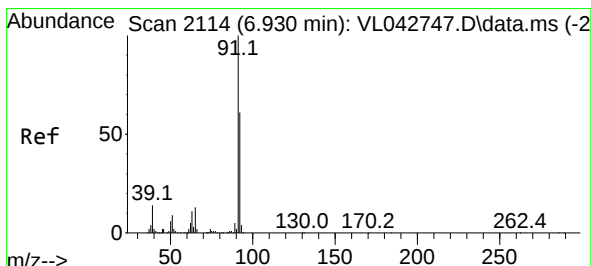
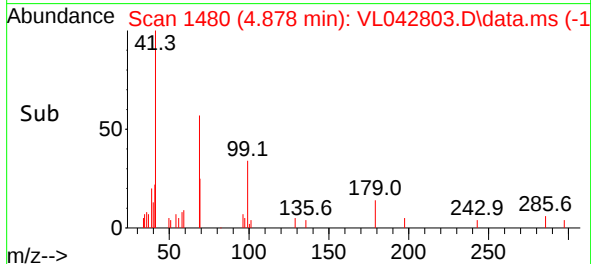
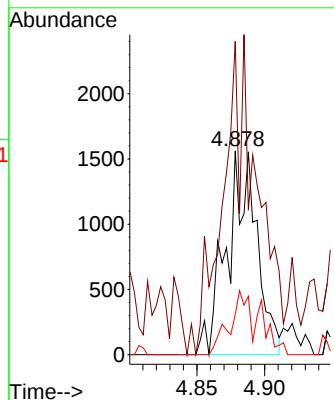
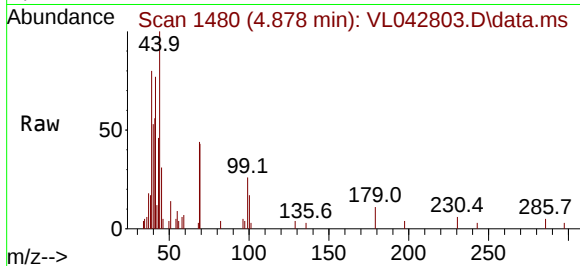
#43
Methyl Methacrylate
Concen: 0.151 ppbv m
RT: 4.878 min Scan# 1479
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 69 Resp: 241
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5
100 0.0 28.6 42.8

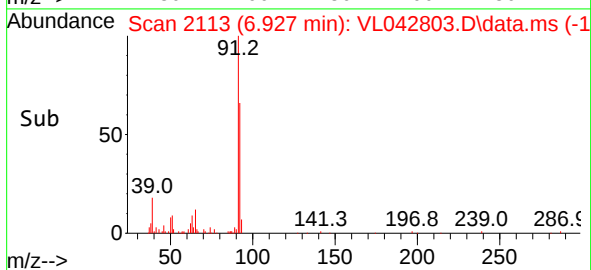
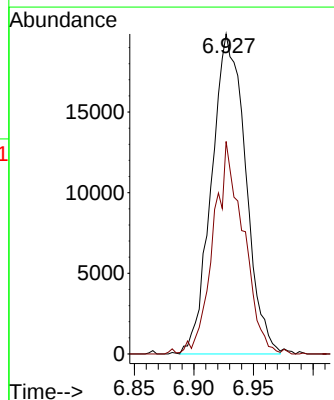
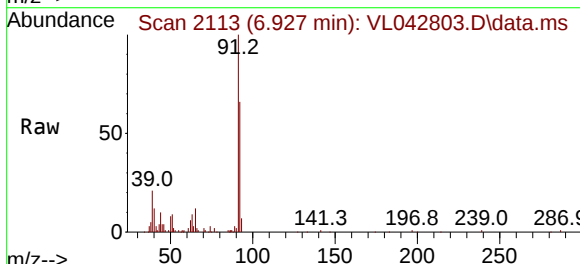
Manual Integrations
APPROVED

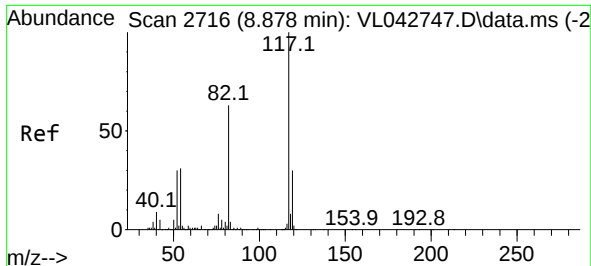
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#53
Toluene
Concen: 0.816 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 39418
Ion Ratio Lower Upper
91 100
92 59.1 48.0 72.0





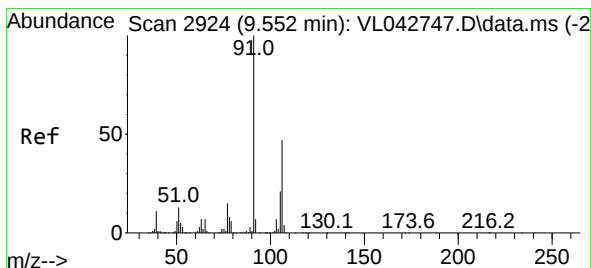
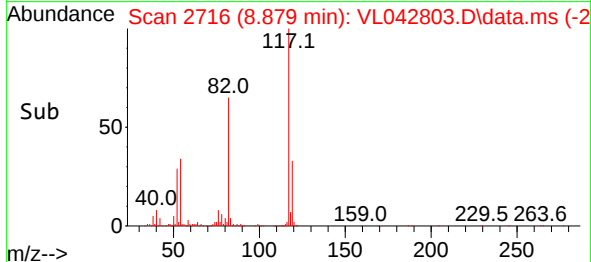
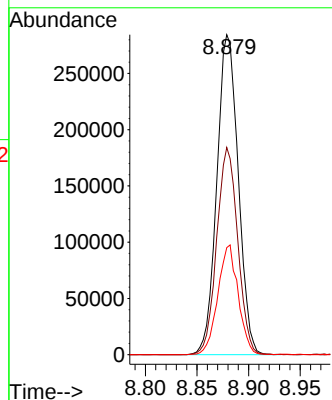
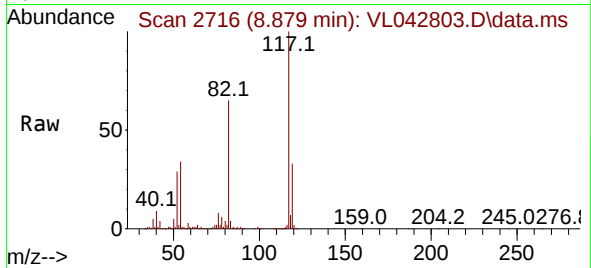
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2117
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion: 117 Resp: 41066
Ion Ratio Lower Upper
117 100
82 63.4 53.3 79.9
119 32.8 25.8 38.6

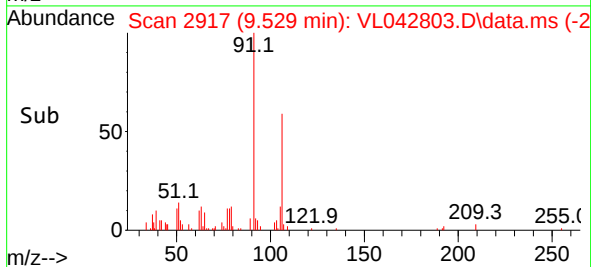
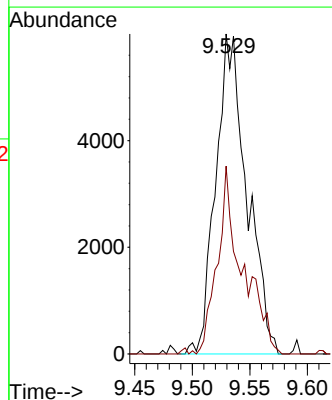
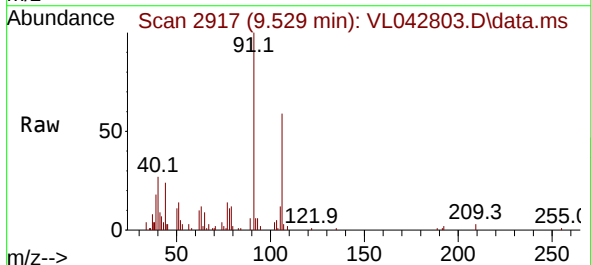
Manual Integrations
APPROVED

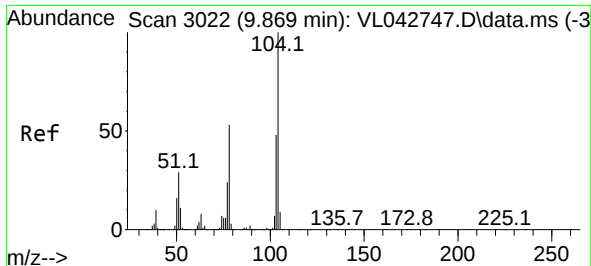
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#59
m/p-Xylene
Concen: 0.218 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.022 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Tgt Ion: 91 Resp: 11294
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#





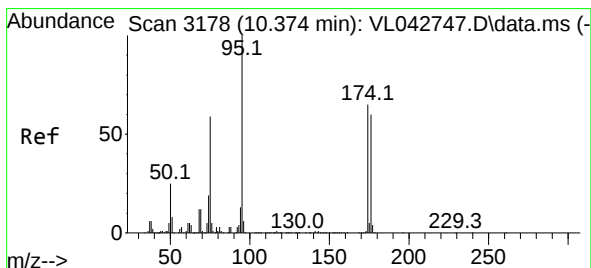
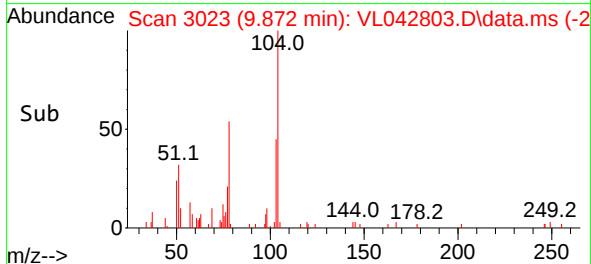
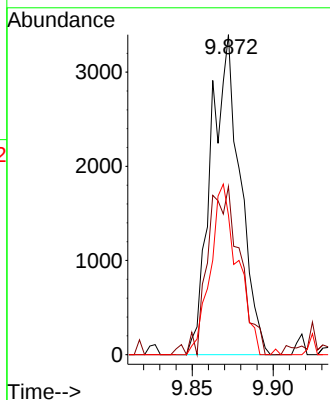
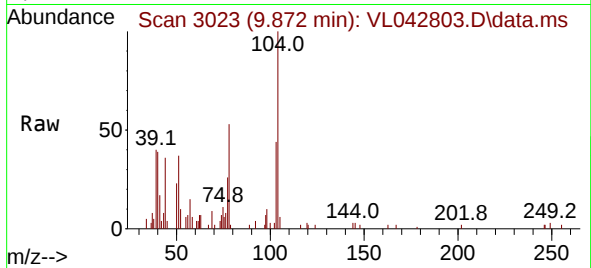
#61
Styrene
Concen: 0.196 ppbv m
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5

Tgt Ion:104 Resp: 4275
Ion Ratio Lower Upper
104 100
78 58.5 41.5 62.3
103 49.9 37.5 56.3

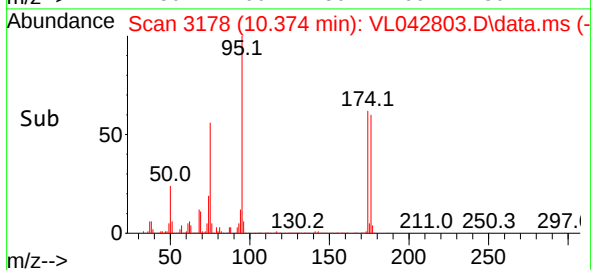
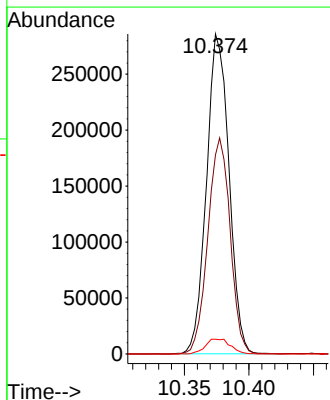
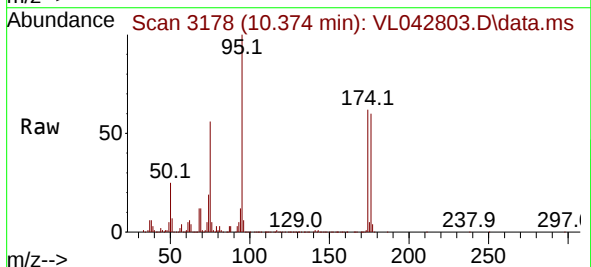
Manual Integrations
APPROVED

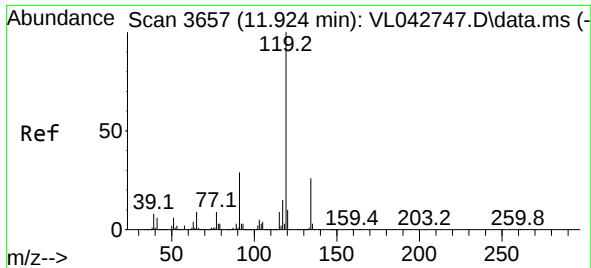
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.645 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

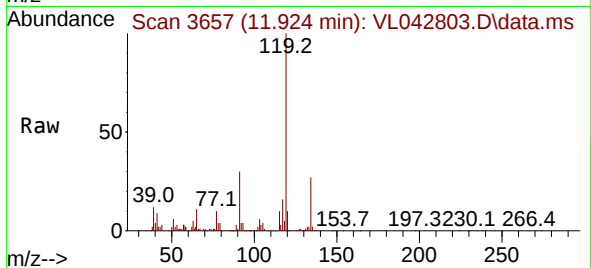
Tgt Ion: 95 Resp: 346200
Ion Ratio Lower Upper
95 100
174 66.9 53.8 80.6
175 5.2 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.639 ppbv
RT: 11.924 min Scan# 30
Delta R.T. 0.000 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

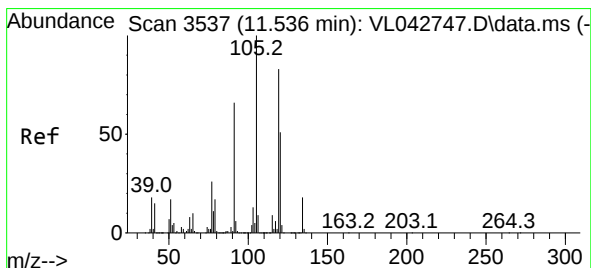
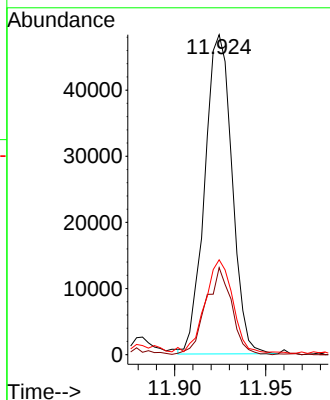
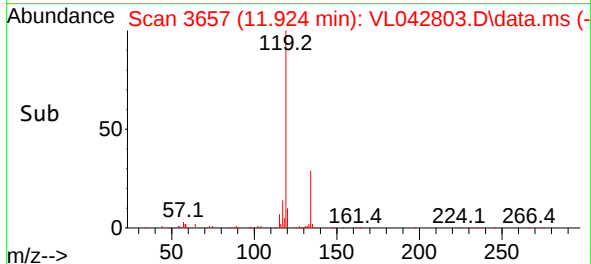
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5



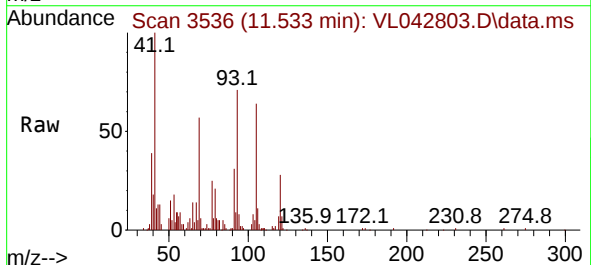
Tgt Ion:119 Resp: 50300
Ion Ratio Lower Upper
119 100
134 26.2 20.6 31.0
91 29.3 23.2 34.8

Manual Integrations
APPROVED

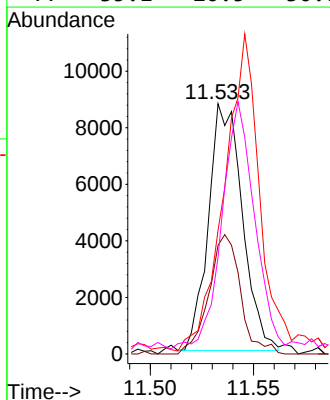
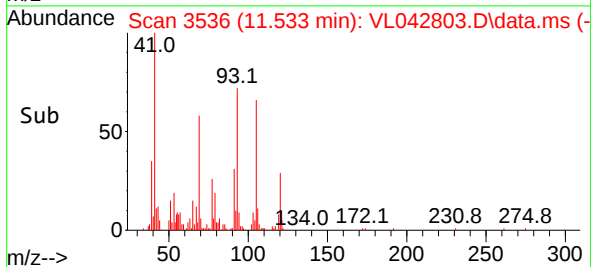
Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

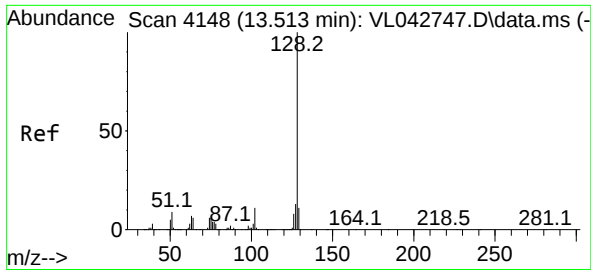


#74
1,2,4-Trimethylbenzene
Concen: 0.179 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03



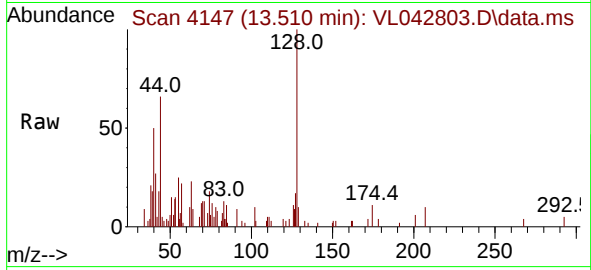
Tgt Ion:105 Resp: 9966
Ion Ratio Lower Upper
105 100
120 44.0 40.8 61.2
91 49.0 53.0 79.4#
77 35.1 20.5 30.7#





#79
Naphthalene
Concen: 0.479 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042803.D
Acq: 04 Aug 2025 14:03

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-5



Tgt Ion:	128	Resp:	276
Ion Ratio	Lower	Upper	
128	100		
127	16.5	10.5	15.7
129	10.3	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/05/2025
Supervised By :Mahesh Dadoda 08/05/2025

