

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042802.D
 Acq On : 04 Aug 2025 13:30
 Operator : SY/MD
 Sample : Q2750-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
 Supervised By :Mahesh Dadoda 08/06/2025

Quant Time: Aug 05 01:04:19 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	166020	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	471810	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	410967	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	345607	10.619	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	11798	0.537	ppbv	92
3) Chlorodifluoromethane	1.473	51	1595678	55.804	ppbv #	83
4) Chloromethane	1.531	50	6035	0.680	ppbv #	86
9) Propene	1.486	41	196810m	18.938	ppbv	
11) Trichlorofluoromethane	1.874	101	4420	0.195	ppbv	84
13) Ethanol	1.725	45	4798288	6339.911	ppbv	94
15) Acetone	1.832	43	2203330	96.111	ppbv #	80
19) Isopropyl Alcohol	1.981	45	25586708m	2100.285	ppbv	
20) Methylene Chloride	2.062	84	13447	1.861	ppbv	93
25) Ethyl Acetate	2.842	43	253529m	4.996	ppbv	
26) Hexane	2.823	57	42838	1.924	ppbv #	1
27) Carbon Disulfide	2.146	76	62067	3.257	ppbv #	65
29) Chloroform	2.852	83	20293	0.590	ppbv	100
34) 2-Butanone	2.564	43	31346	0.938	ppbv	96
35) Carbon Tetrachloride	3.761	117	2258m	0.064	ppbv	
36) Benzene	3.651	78	11411	0.255	ppbv #	90
41) Tetrahydrofuran	3.085	42	5673m	0.334	ppbv	
43) Methyl Methacrylate	4.878	69	2393m	0.151	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	7963m	0.109	ppbv	
53) Toluene	6.936	91	36533	0.761	ppbv	98
59) m/p-Xylene	9.526	91	11420m	0.220	ppbv	
61) Styrene	9.875	104	3986m	0.183	ppbv	
69) p-Isopropyltoluene	11.924	119	47903	0.608	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	7196	0.129	ppbv #	82
79) Naphthalene	13.513	128	1603	0.461	ppbv #	80

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

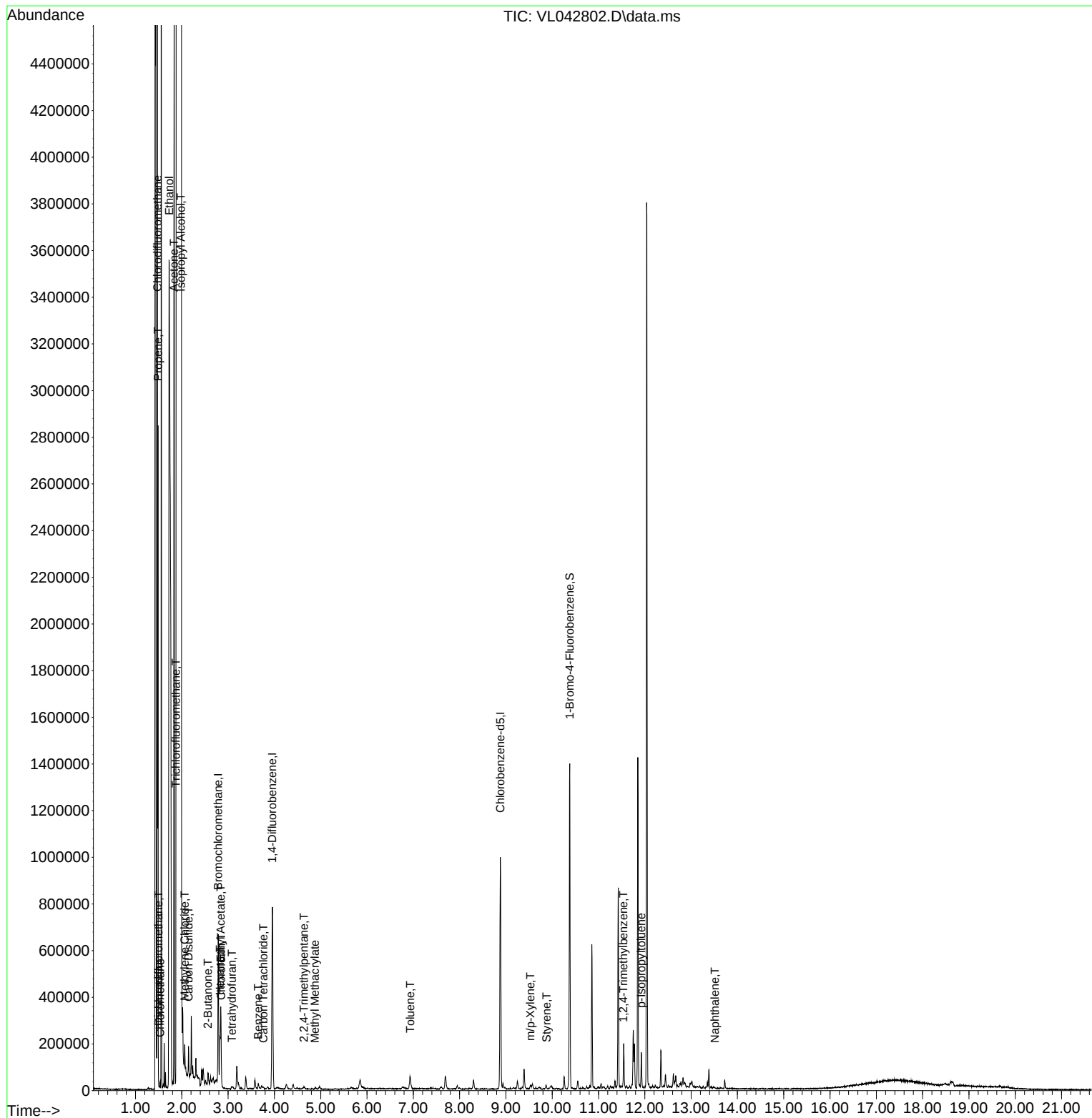
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
Data File : VL042802.D
Acq On : 04 Aug 2025 13:30
Operator : SY/MD
Sample : Q2750-03
Misc : 400mL/MSVOA_L
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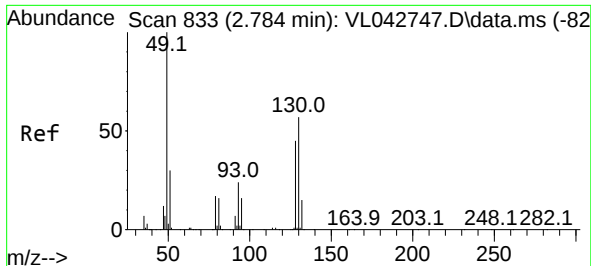
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

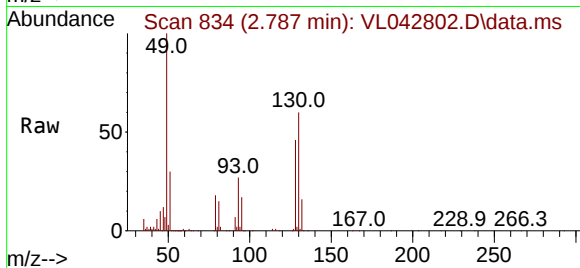
Quant Time: Aug 05 01:04:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

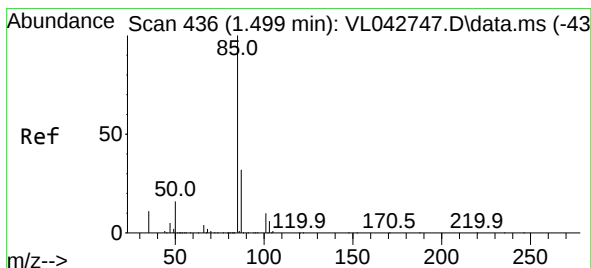
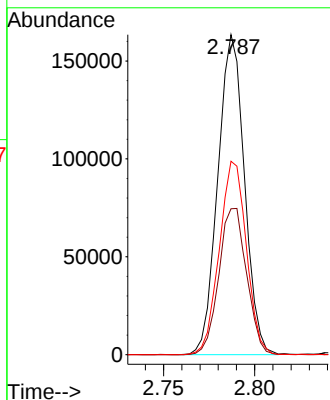
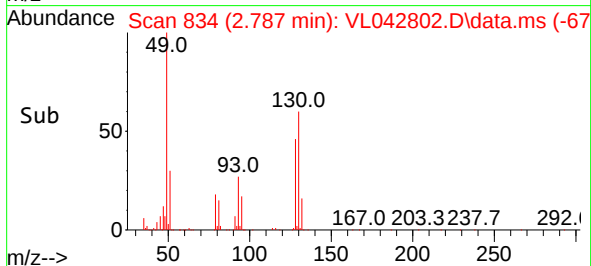
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



Tgt Ion: 49 Resp: 166020
Ion Ratio Lower Upper
49 100
128 47.8 23.6 71.0
130 61.6 30.3 90.8

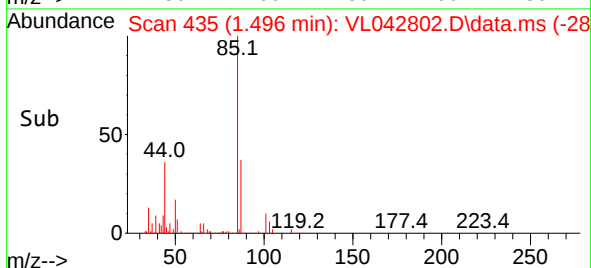
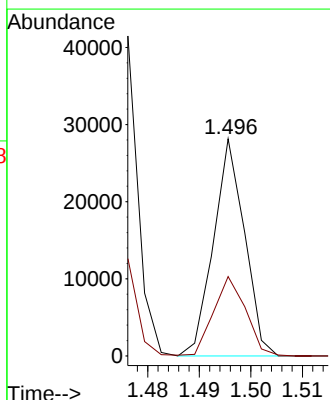
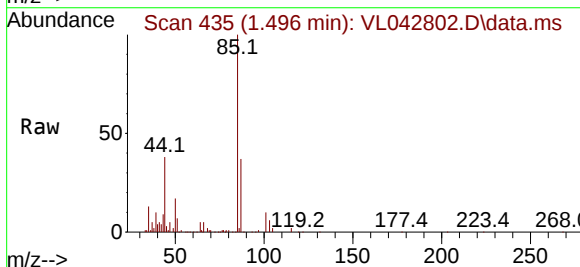
Manual Integrations
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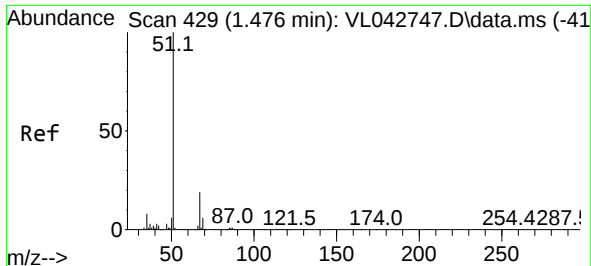
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 0.537 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

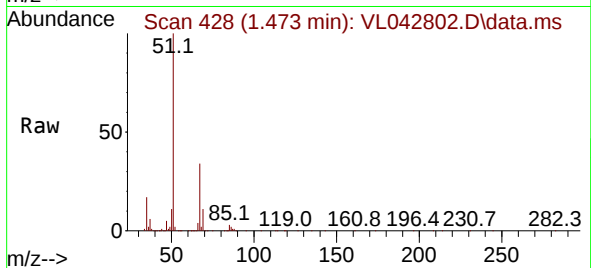
Tgt Ion: 85 Resp: 11798
Ion Ratio Lower Upper
85 100
87 36.2 25.4 38.2





#3
Chlorodifluoromethane
Concen: 55.804 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

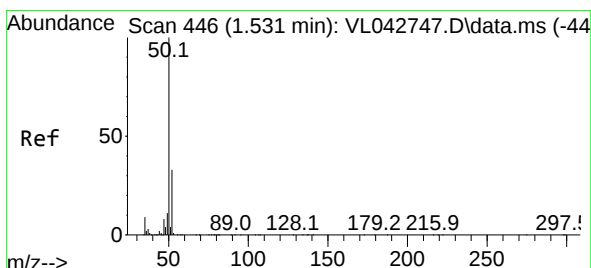
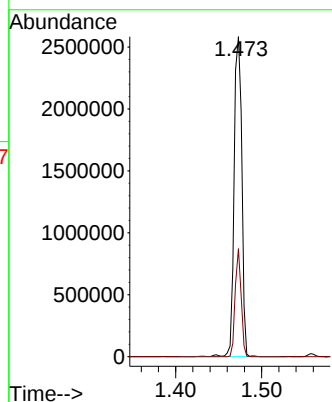
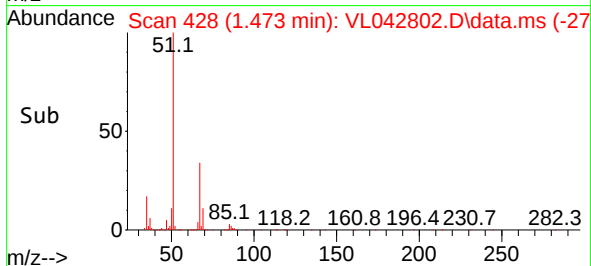
Instrument :
MSVOA_L
ClientSampleId :
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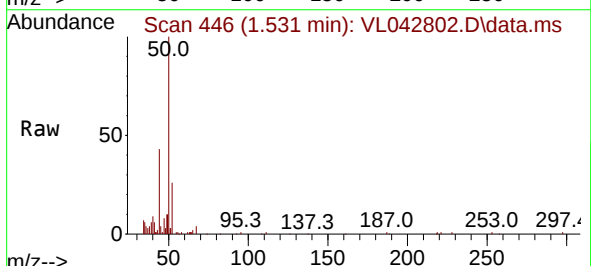
Tgt Ion: 51 Resp: 1595678
Ion Ratio Lower Upper
51 100
67 26.3 15.0 22.6

Manual Integrations
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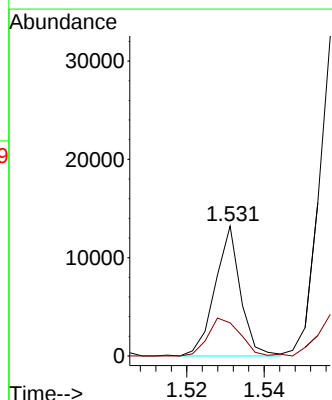
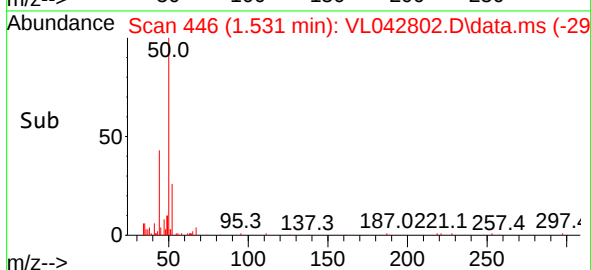
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

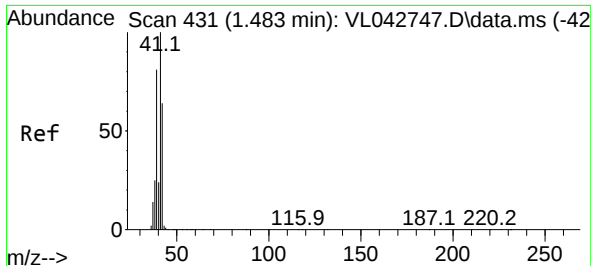


#4
Chloromethane
Concen: 0.680 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30



Tgt Ion: 50 Resp: 6035
Ion Ratio Lower Upper
50 100
52 25.5 26.6 40.0





#9

Propene

Concen: 18.938 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042802.D

Acq: 04 Aug 2025 13:30

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-4

Tgt Ion: 41 Resp: 196810

Ion Ratio Lower Upper

41 100

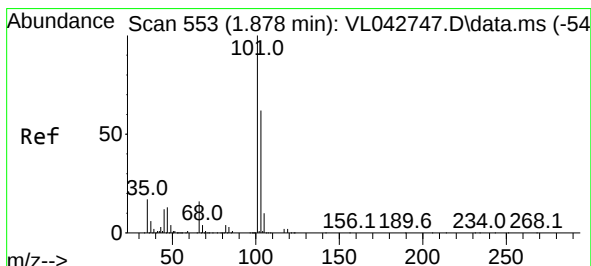
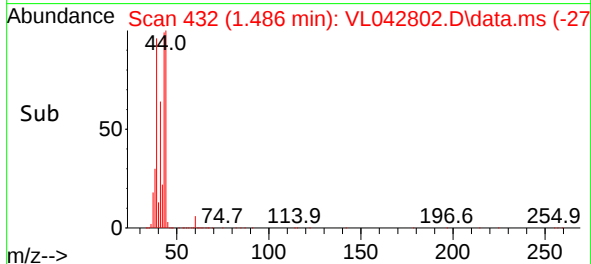
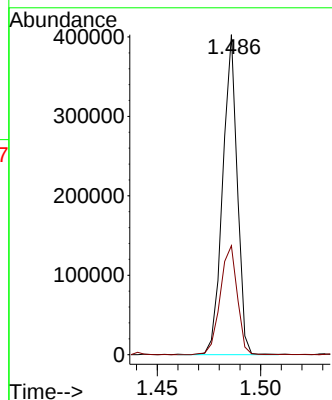
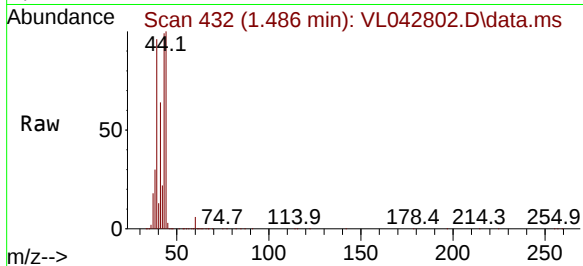
42 237.5 53.2 79.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#11

Trichlorofluoromethane

Concen: 0.195 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.003 min

Lab File: VL042802.D

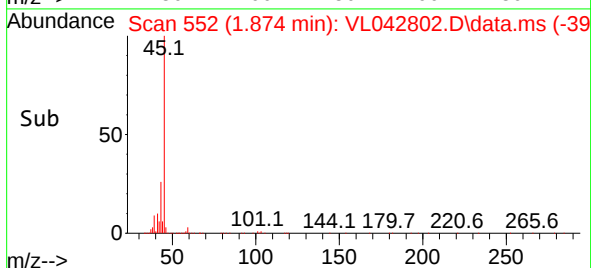
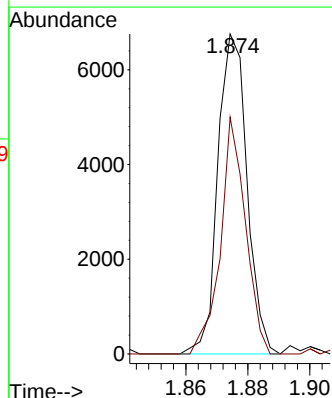
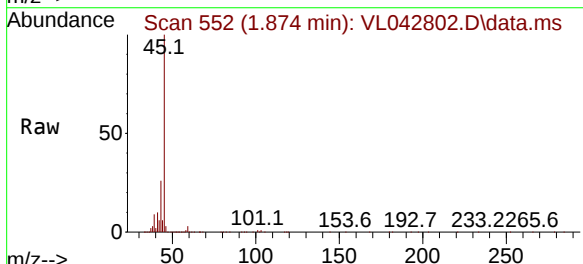
Acq: 04 Aug 2025 13:30

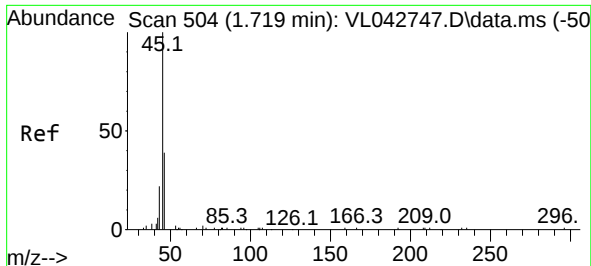
Tgt Ion:101 Resp: 4420

Ion Ratio Lower Upper

101 100

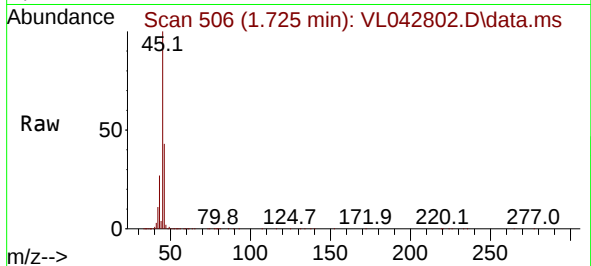
103 73.9 49.6 74.4





#13
Ethanol
Concen: 6339.911 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

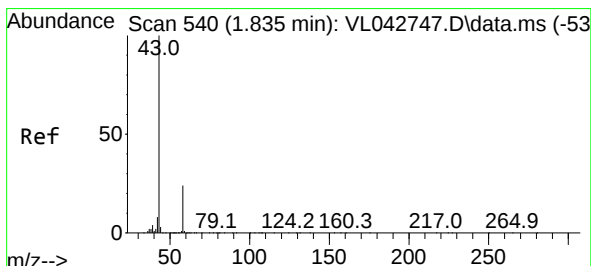
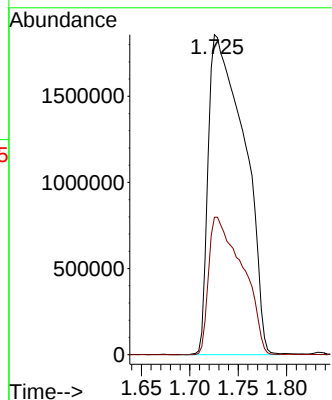
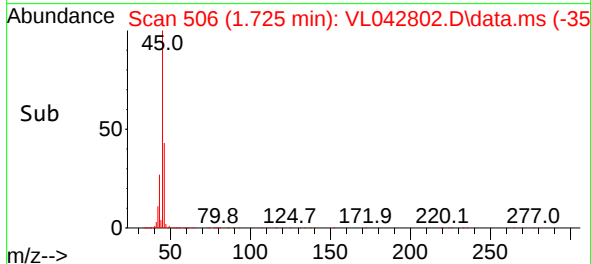
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



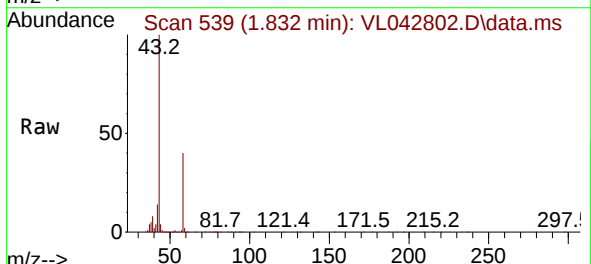
Tgt Ion: 45 Resp: 479828
Ion Ratio Lower Upper
45 100
46 40.5 17.8 71.4

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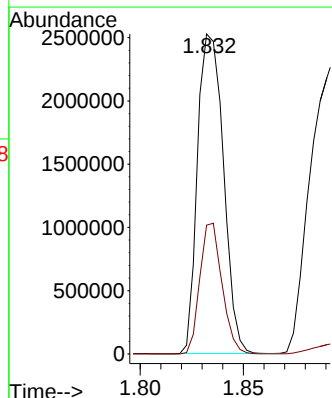
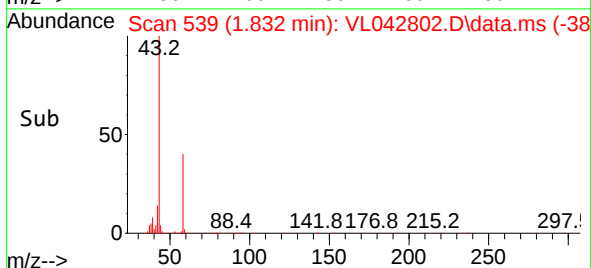
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

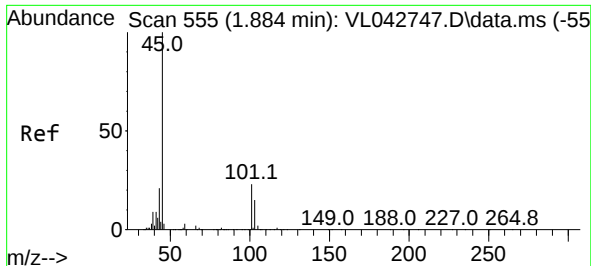


#15
Acetone
Concen: 96.111 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30



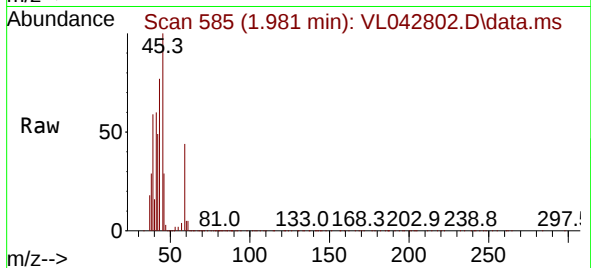
Tgt Ion: 43 Resp: 2203330
Ion Ratio Lower Upper
43 100
58 35.0 19.8 29.8





#19
Isopropyl Alcohol
Concen: 2100.285 ppbv m
RT: 1.981 min Scan# 51
Delta R.T. 0.097 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

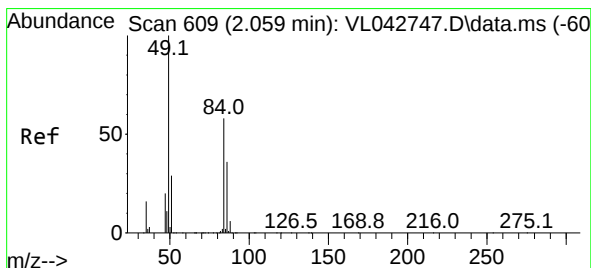
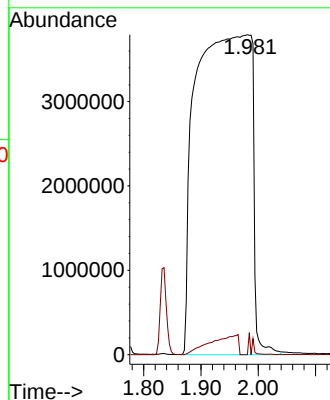
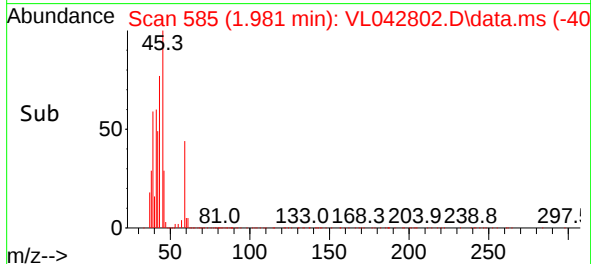
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



Tgt Ion: 45 Resp: 25586708
Ion Ratio Lower Upper
45 100
58 0.3 30.0 45.0

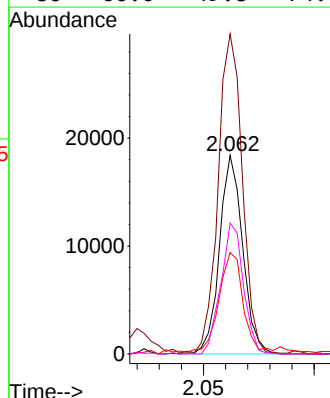
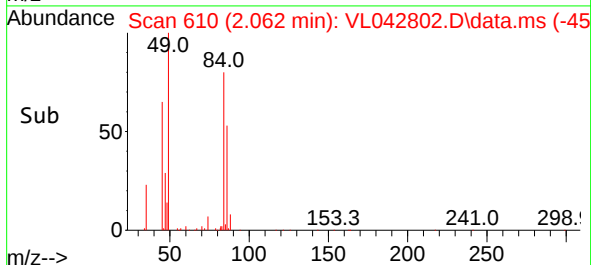
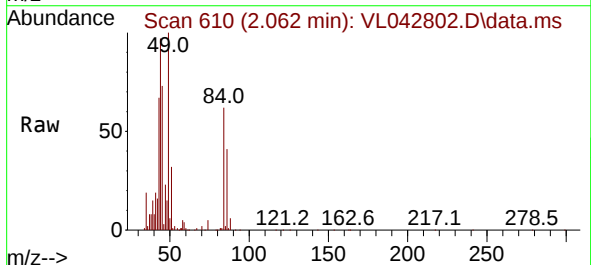
Manual Integrations
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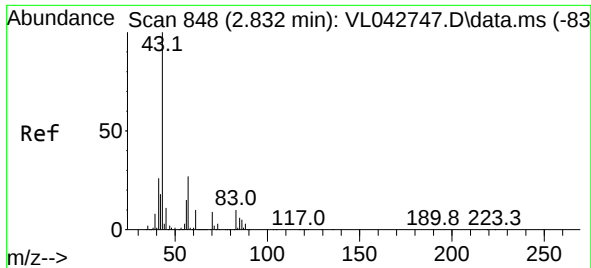
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#20
Methylene Chloride
Concen: 1.861 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

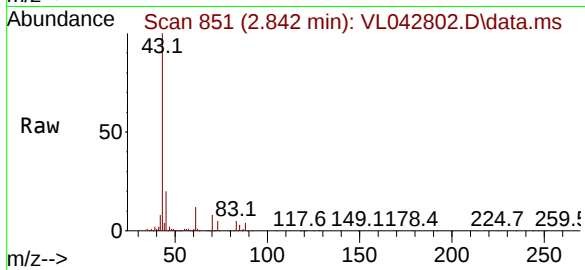
Tgt Ion: 84 Resp: 13447
Ion Ratio Lower Upper
84 100
49 160.8 138.6 208.0
51 51.7 40.6 61.0
86 66.0 49.8 74.8





#25
Ethyl Acetate
Concen: 4.996 ppbv m
RT: 2.842 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

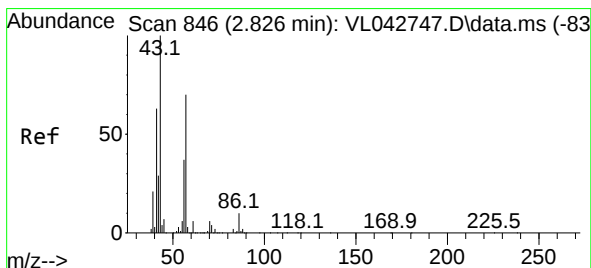
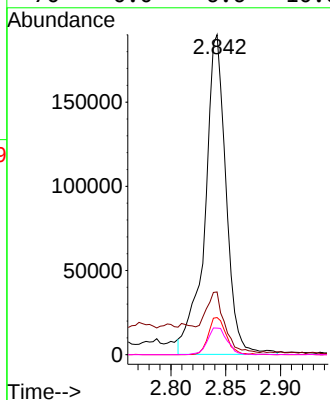
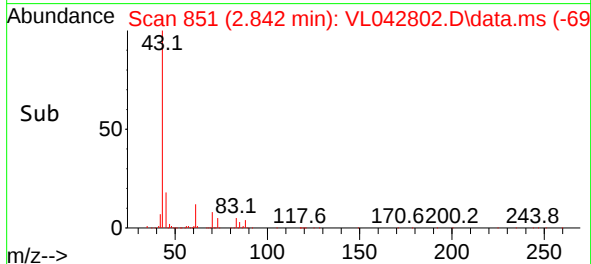
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



Tgt Ion: 43 Resp: 253529
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#

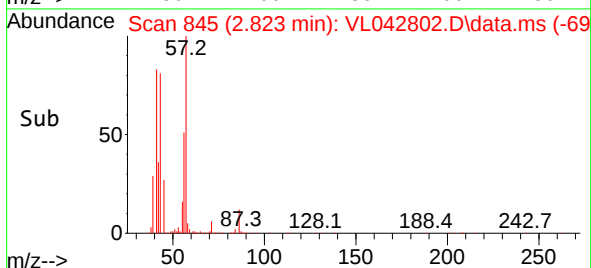
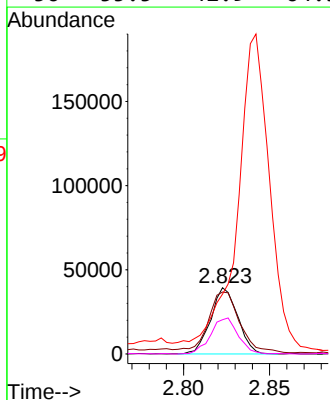
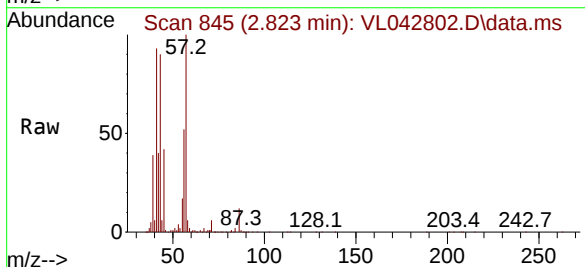
Manual Integrations
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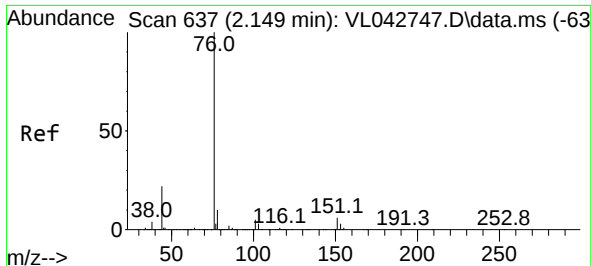
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#26
Hexane
Concen: 1.924 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 57 Resp: 42838
Ion Ratio Lower Upper
57 100
41 117.1 75.4 113.2#
43 637.0 185.0 277.6#
56 55.5 42.9 64.3





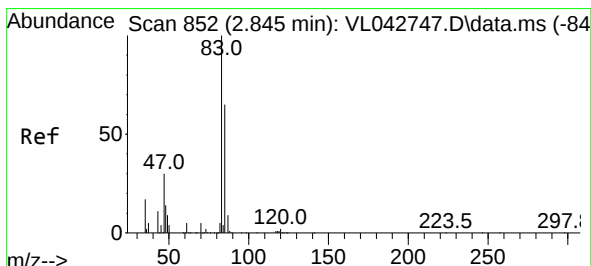
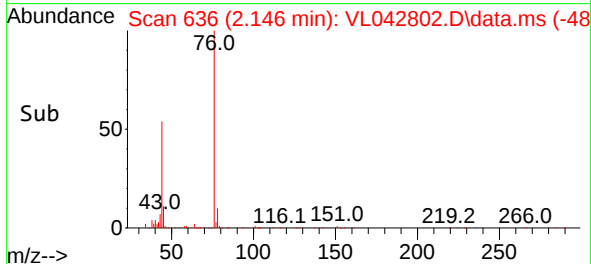
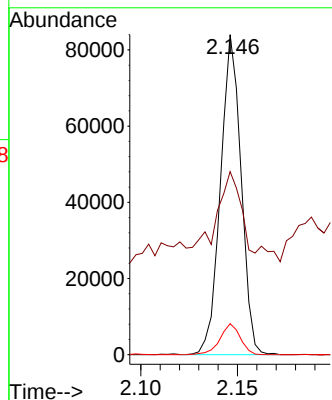
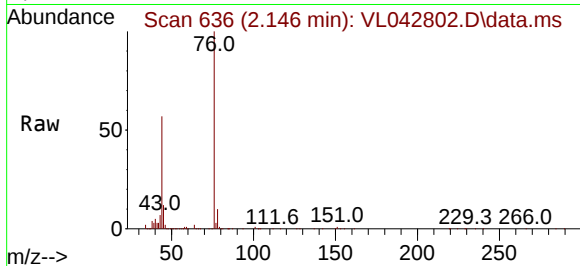
#27
Carbon Disulfide
Concen: 3.257 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4

Tgt Ion: 76 Resp: 6206
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9
78 9.5 9.9 14.9

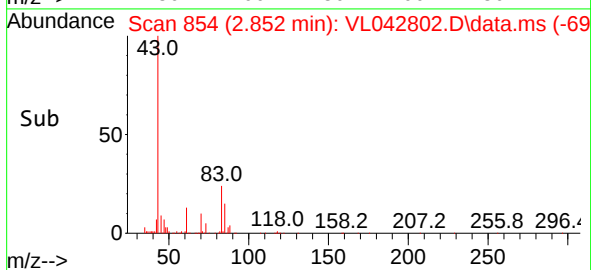
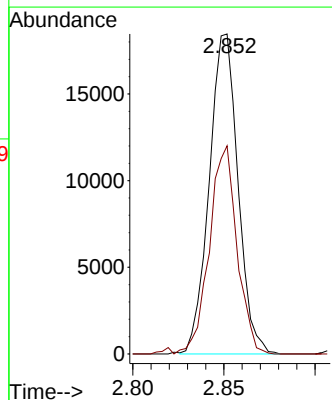
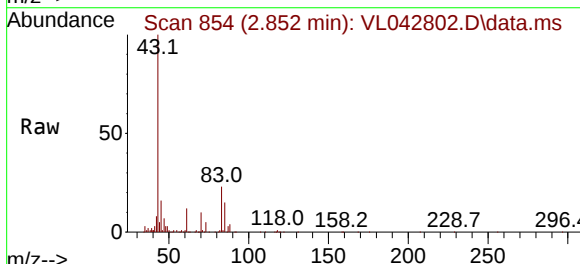
Manual Integrations
APPROVED

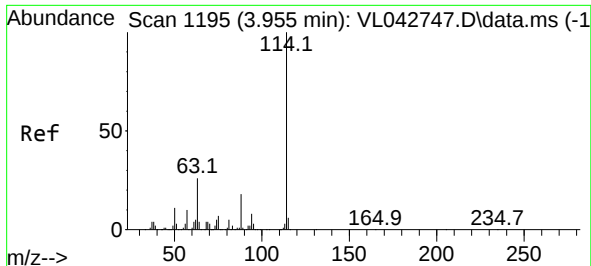
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#29
Chloroform
Concen: 0.590 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 83 Resp: 20293
Ion Ratio Lower Upper
83 100
85 65.0 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VL042802.D

Acq: 04 Aug 2025 13:30

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-4

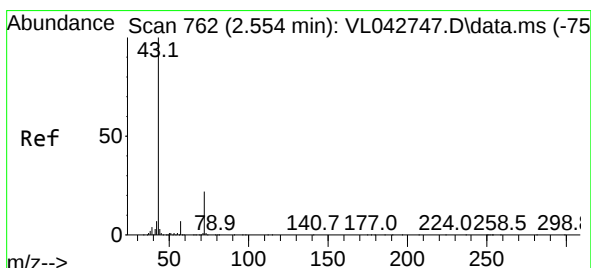
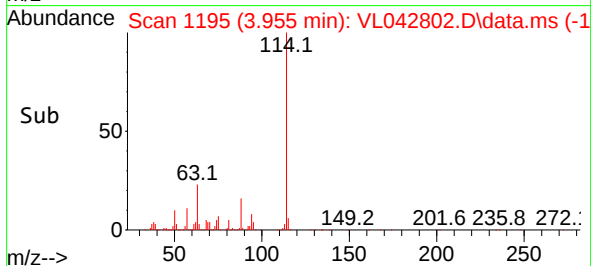
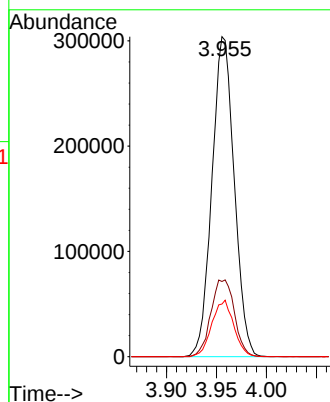
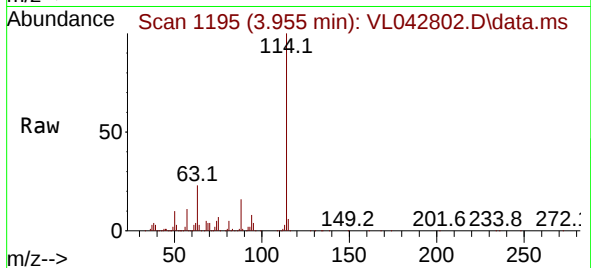
Tgt Ion:114 Resp: 471810

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.5	30.7
88	17.4	14.0	21.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#34

2-Butanone

Concen: 0.938 ppbv

RT: 2.564 min Scan# 765

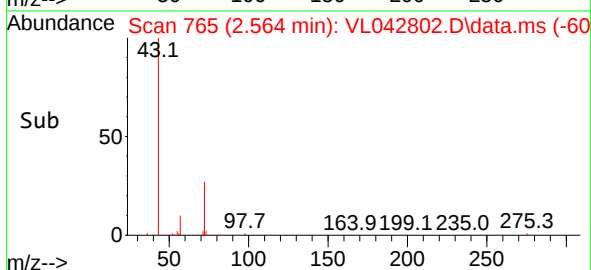
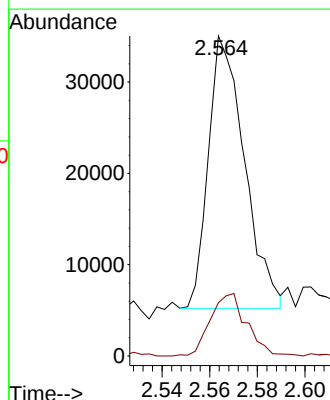
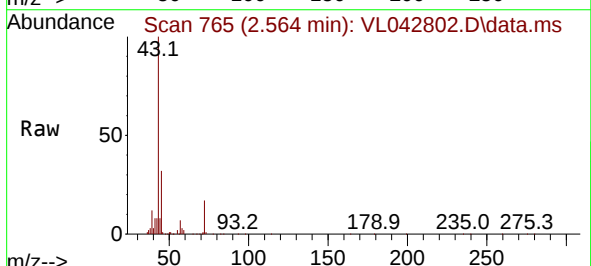
Delta R.T. 0.010 min

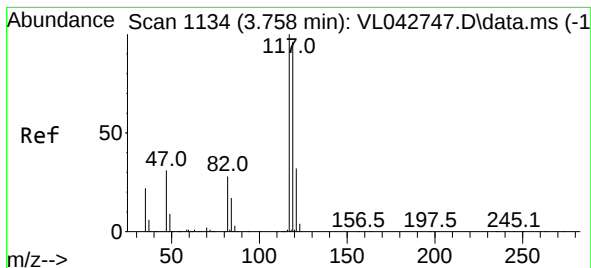
Lab File: VL042802.D

Acq: 04 Aug 2025 13:30

Tgt Ion: 43 Resp: 31346

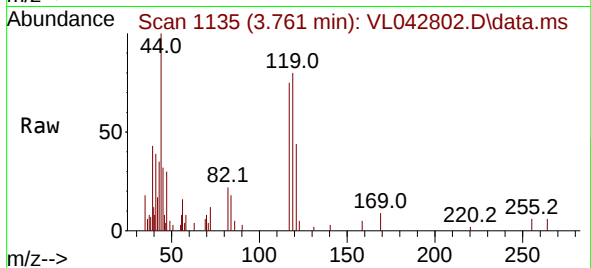
Ion	Ratio	Lower	Upper
43	100		
72	23.5	17.4	26.0





#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

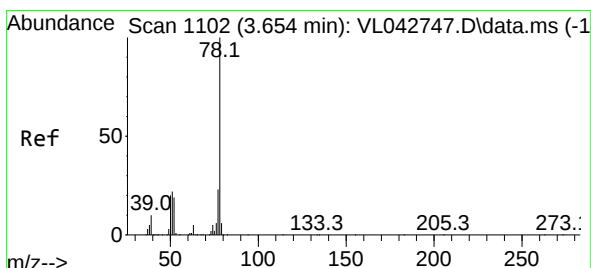
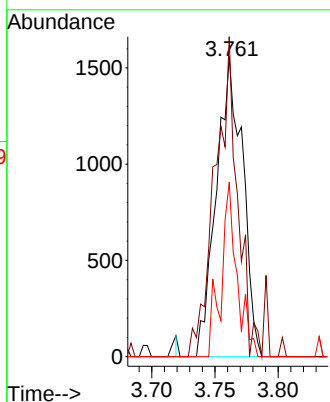
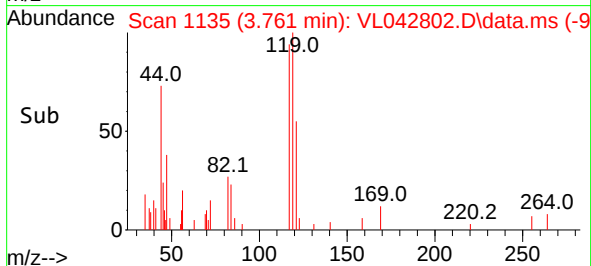
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



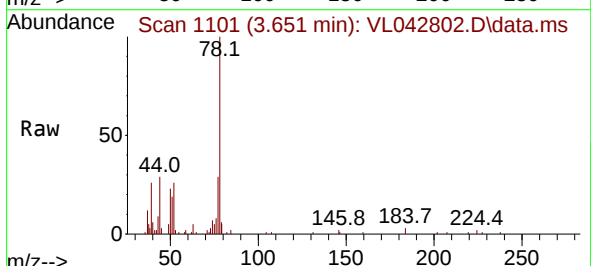
Tgt Ion:117 Resp: 2258
Ion Ratio Lower Upper
117 100
119 106.6 77.1 115.7
121 58.2 25.5 38.3

Manual Integrations
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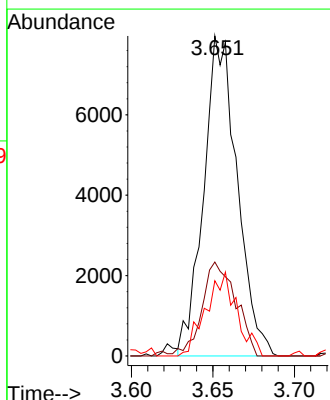
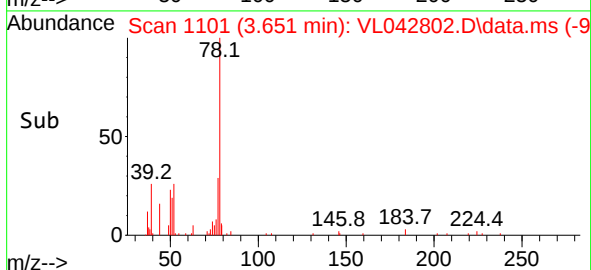
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

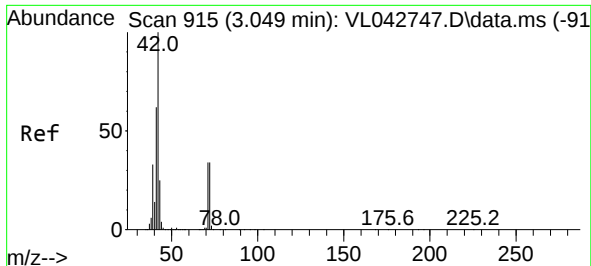


#36
Benzene
Concen: 0.255 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30



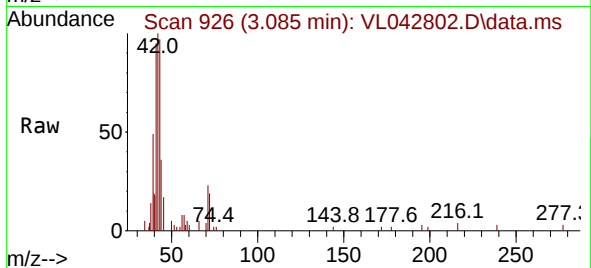
Tgt Ion: 78 Resp: 11411
Ion Ratio Lower Upper
78 100
77 29.3 18.5 27.7#
50 23.5 16.2 24.2





#41
Tetrahydrofuran
Concen: 0.334 ppbv m
RT: 3.085 min Scan# 915
Delta R.T. 0.036 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

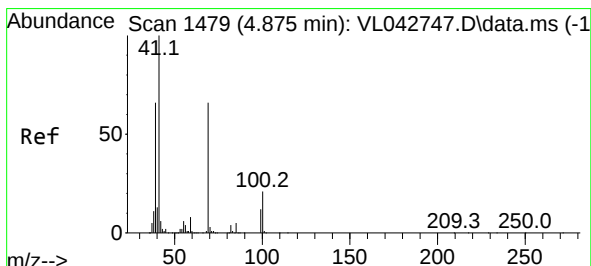
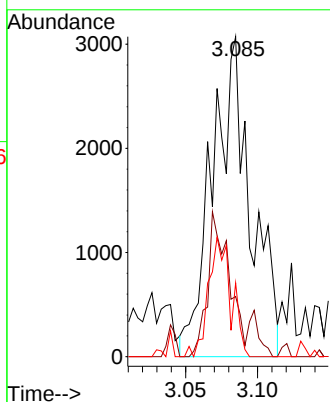
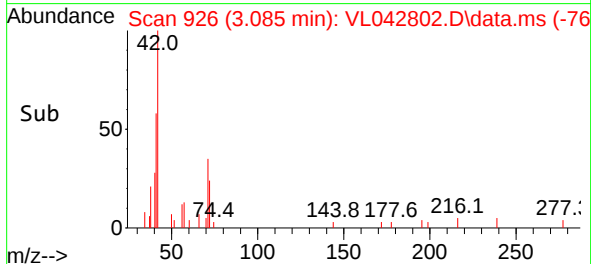
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



Tgt Ion: 42 Resp: 567
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3
71 0.0 28.6 43.0

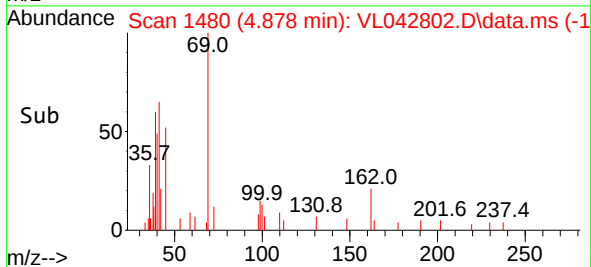
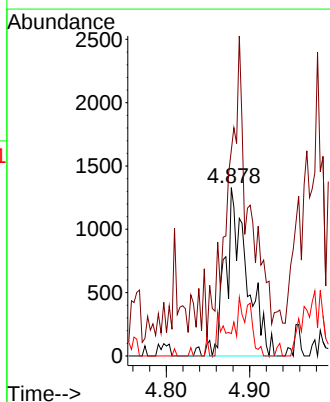
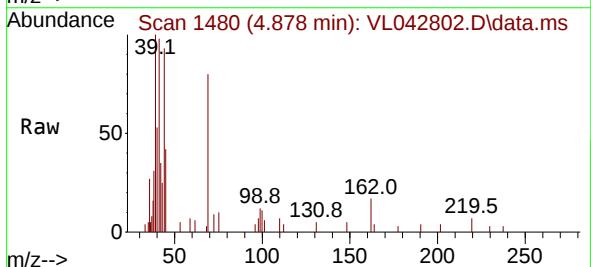
Manual Integrations
APPROVED

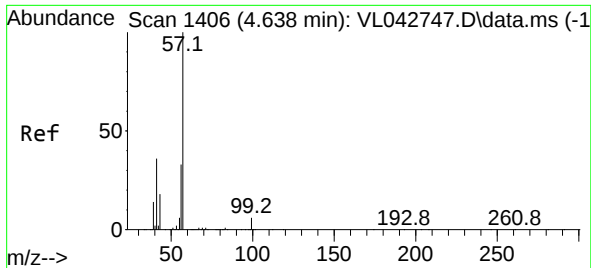
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#43
Methyl Methacrylate
Concen: 0.151 ppbv m
RT: 4.878 min Scan# 1480
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

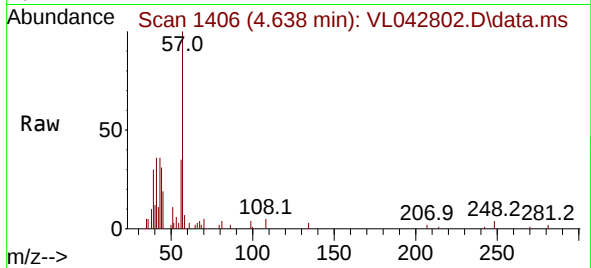
Tgt Ion: 69 Resp: 2393
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#





#44
2,2,4-Trimethylpentane
Concen: 0.109 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

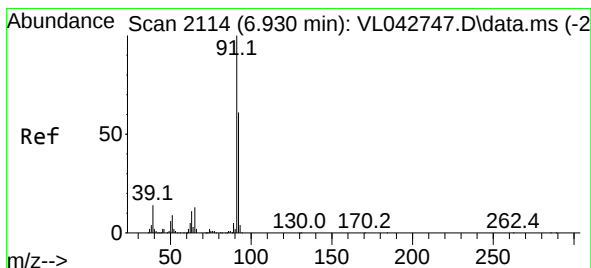
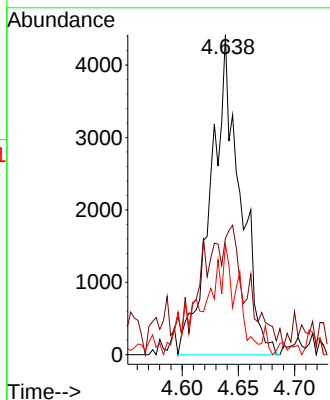
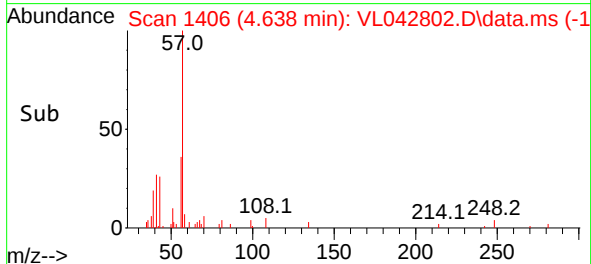
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



Tgt Ion: 57 Resp: 796
Ion Ratio Lower Upper
57 100
41 52.7 28.3 42.5
56 45.1 25.8 38.6

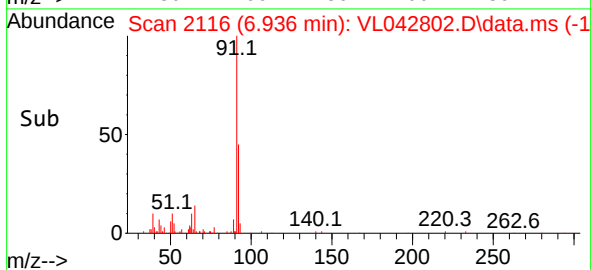
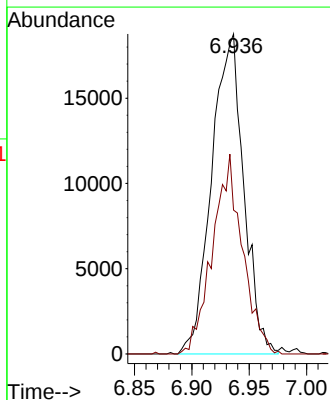
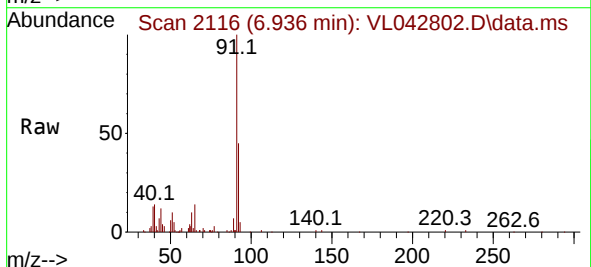
Manual Integrations
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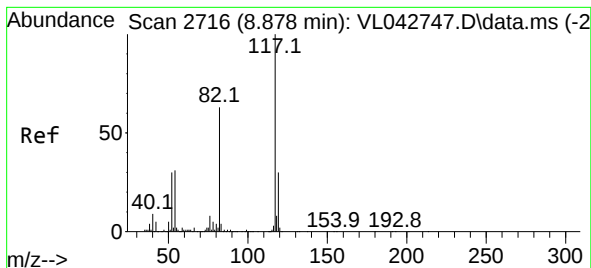
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#53
Toluene
Concen: 0.761 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Tgt Ion: 91 Resp: 36533
Ion Ratio Lower Upper
91 100
92 58.3 48.0 72.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042802.D

Acq: 04 Aug 2025 13:30

Instrument :

MSVOA_L

ClientSampleId :

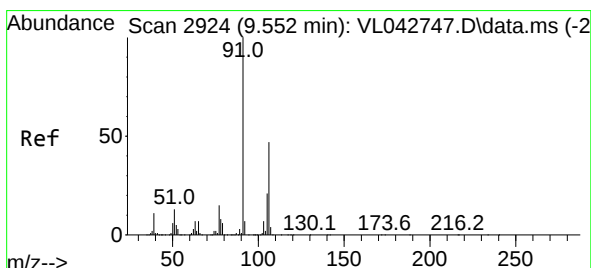
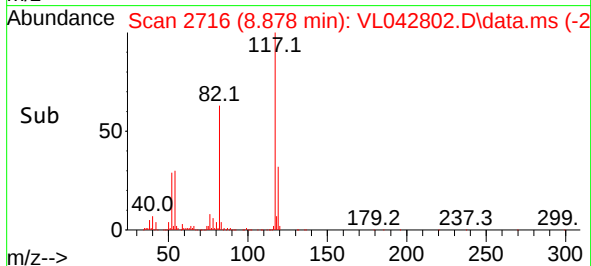
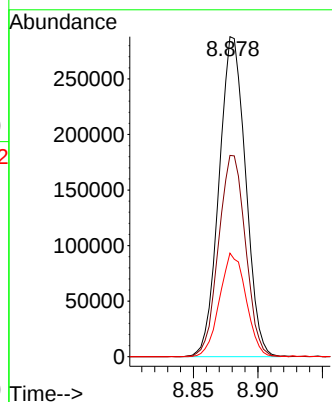
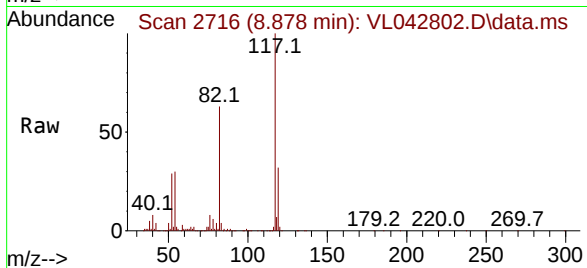
WONDER IA-4

Tgt Ion:117	Resp:	41096
Ion Ratio	Lower	Upper
117	100	
82	64.0	53.3 79.9
119	32.4	25.8 38.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#59

m/p-Xylene

Concen: 0.220 ppbv m

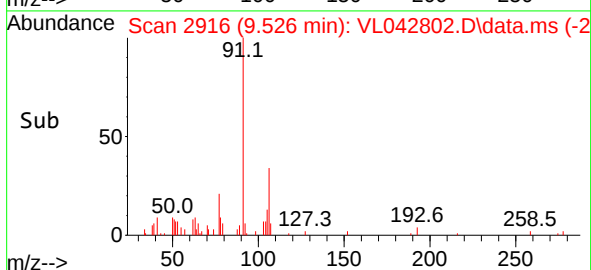
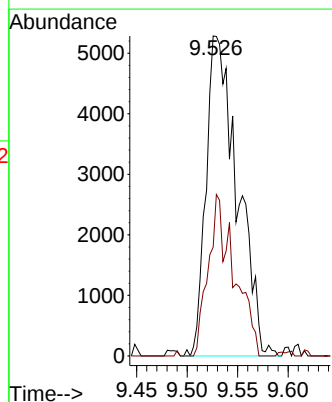
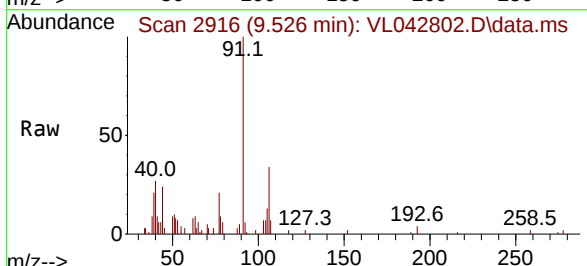
RT: 9.526 min Scan# 2916

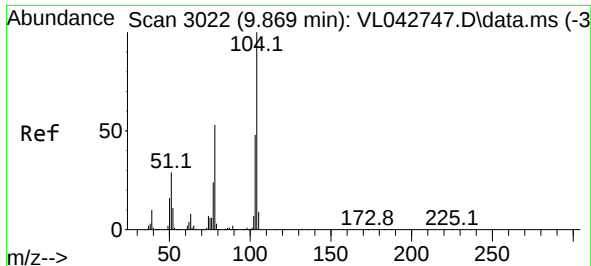
Delta R.T. -0.026 min

Lab File: VL042802.D

Acq: 04 Aug 2025 13:30

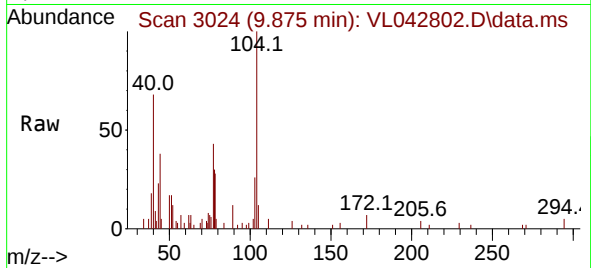
Tgt Ion: 91	Resp:	11420
Ion Ratio	Lower	Upper
91	100	
106	0.0	37.4 56.2#





#61
Styrene
Concen: 0.183 ppbv m
RT: 9.875 min Scan# 3022
Delta R.T. 0.006 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

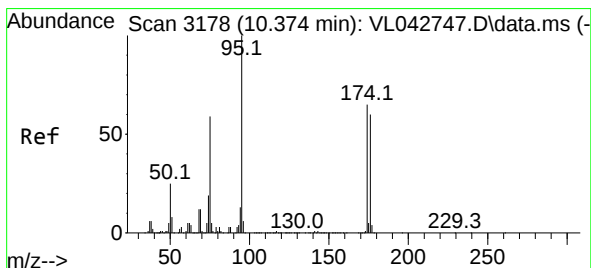
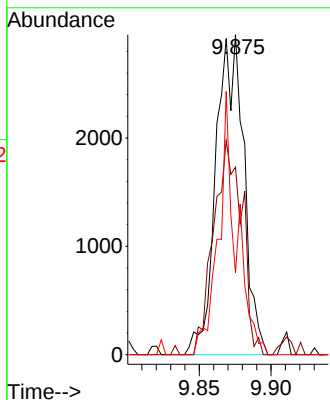
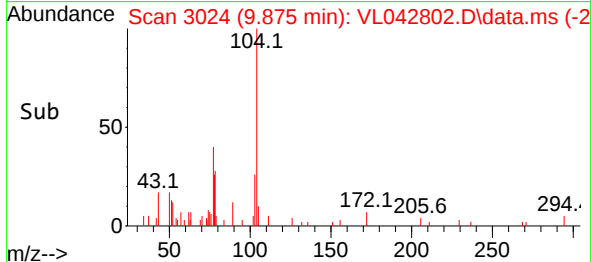
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



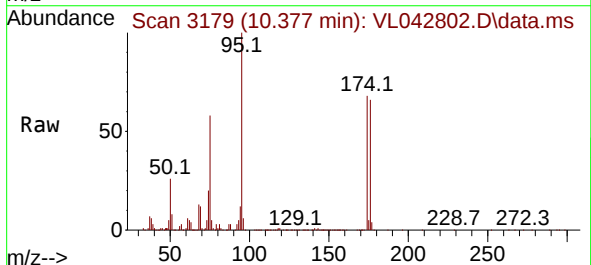
Tgt Ion:104 Resp: 3980
Ion Ratio Lower Upper
104 100
78 68.7 41.5 62.3
103 52.9 37.5 56.3

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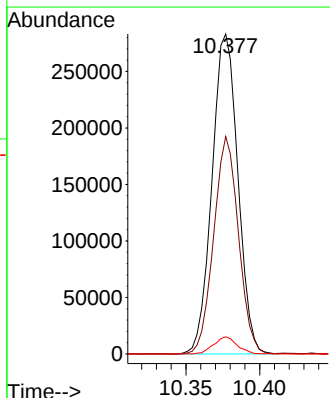
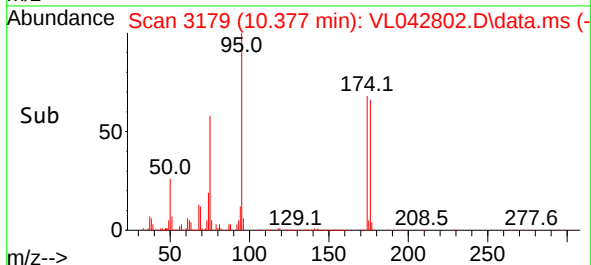
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

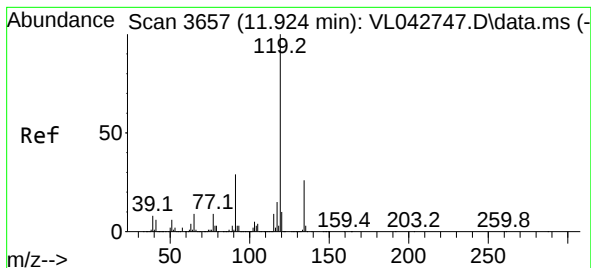


#68
1-Bromo-4-Fluorobenzene
Concen: 10.619 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30



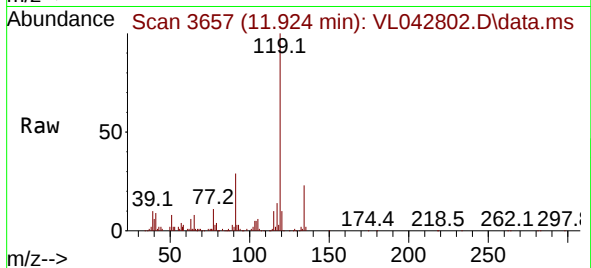
Tgt Ion: 95 Resp: 345607
Ion Ratio Lower Upper
95 100
174 65.1 53.8 80.6
175 4.9 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.608 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

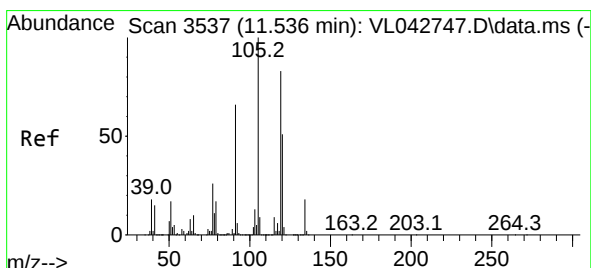
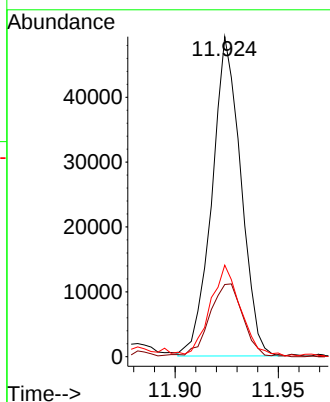
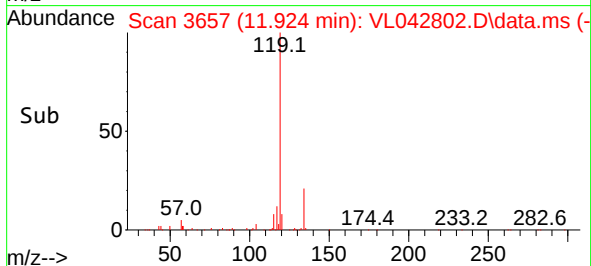
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



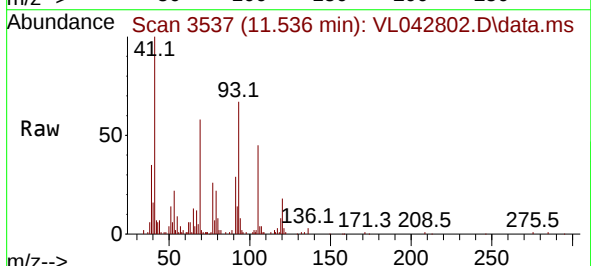
Tgt Ion:119 Resp: 4790
Ion Ratio Lower Upper
119 100
134 26.7 20.6 31.0
91 30.5 23.2 34.8

Manual Integrations
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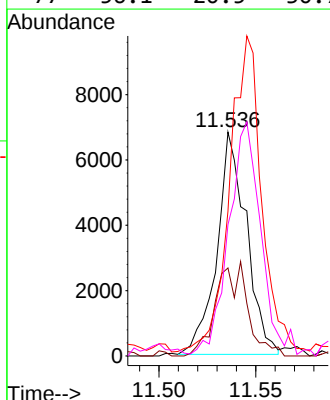
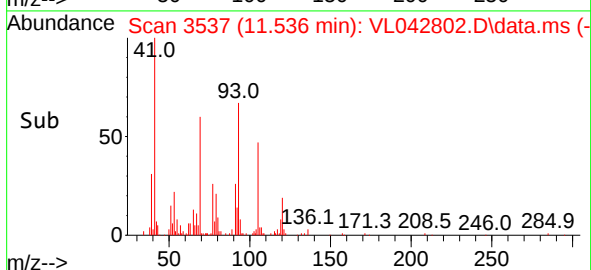
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

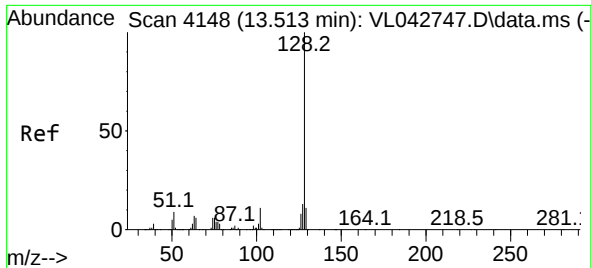


#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30



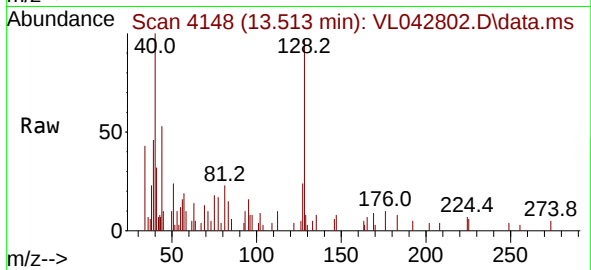
Tgt Ion:105 Resp: 7196
Ion Ratio Lower Upper
105 100
120 39.6 40.8 61.2#
91 63.1 53.0 79.4
77 56.1 20.5 30.7#





#79
Naphthalene
Concen: 0.461 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042802.D
Acq: 04 Aug 2025 13:30

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-4



Tgt Ion:	128	Resp:	1600
Ion Ratio	Lower	Upper	
128	100		
127	25.1	10.5	15.7
129	8.2	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

