

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042807.D
 Acq On : 04 Aug 2025 16:17
 Operator : SY/MD
 Sample : Q2750-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-9

Quant Time: Aug 05 01:08:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 5
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

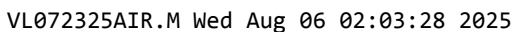
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

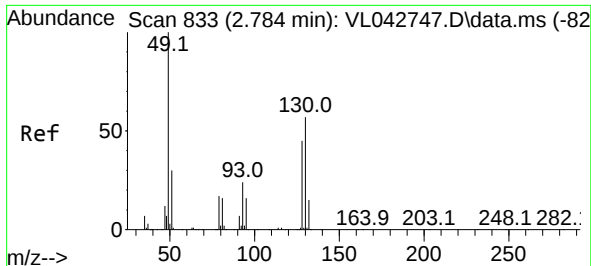
Internal Standards						
1) Bromochloromethane	2.790	49	157969	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	449056	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	389304	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	321819	10.438	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11984m	0.574	ppbv	
3) Chlorodifluoromethane	1.473	51	1140692	41.926	ppbv	94
4) Chloromethane	1.531	50	5508	0.652	ppbv	99
9) Propene	1.489	41	130453m	13.192	ppbv	
10) Heptane	4.982	43	4748m	0.178	ppbv	
11) Trichlorofluoromethane	1.878	101	4846	0.225	ppbv	87
12) 1,1,2-Trichlorotrifluo...	2.140	101	1630	0.100	ppbv #	76
13) Ethanol	1.729	45	2797020	3883.569	ppbv	93
15) Acetone	1.836	43	2084891	95.580	ppbv #	81
19) Isopropyl Alcohol	1.959	45	18181997	1568.534	ppbv #	44
20) Methylene Chloride	2.065	84	5475	0.796	ppbv #	90
25) Ethyl Acetate	2.842	43	154660m	3.203	ppbv	
26) Hexane	2.826	57	23936	1.130	ppbv #	1
27) Carbon Disulfide	2.150	76	35626	1.965	ppbv #	66
29) Chloroform	2.852	83	17081	0.522	ppbv	91
34) 2-Butanone	2.564	43	25565	0.804	ppbv	92
35) Carbon Tetrachloride	3.768	117	2034m	0.061	ppbv	
36) Benzene	3.661	78	12056	0.283	ppbv	93
41) Tetrahydrofuran	3.075	42	5057m	0.312	ppbv	
44) 2,2,4-Trimethylpentane	4.639	57	6941m	0.100	ppbv	
53) Toluene	6.940	91	25827	0.565	ppbv	94
59) m/p-Xylene	9.532	91	9070m	0.185	ppbv	
61) Styrene	9.872	104	3300	0.160	ppbv #	87
69) p-Isopropyltoluene	11.927	119	30916	0.414	ppbv	96

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

Manual Integrations

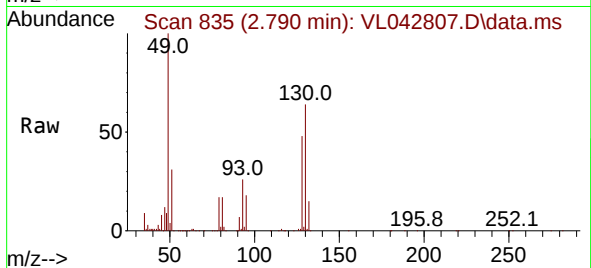
Quant Time: Aug 05 01:08:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.006 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

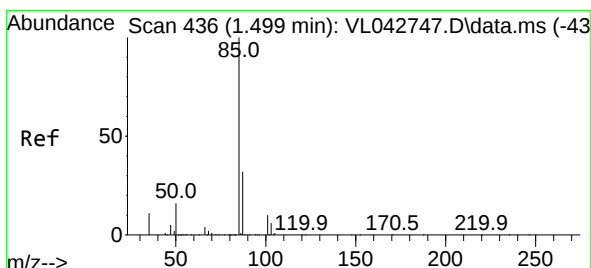
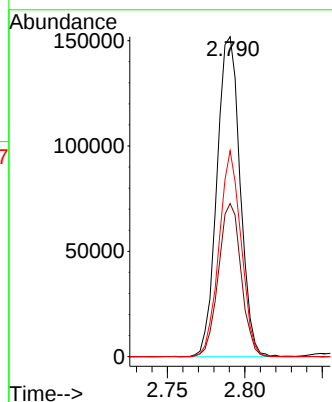
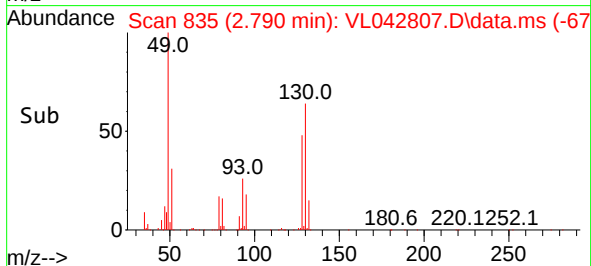
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9



Tgt Ion: 49 Resp: 157969
Ion Ratio Lower Upper
49 100
128 47.0 23.6 71.0
130 61.1 30.3 90.8

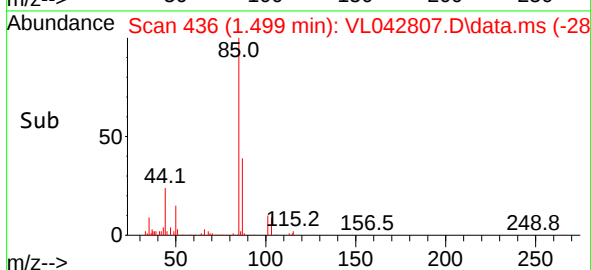
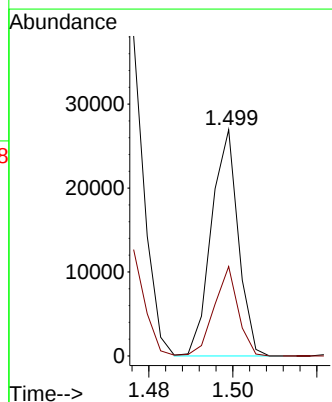
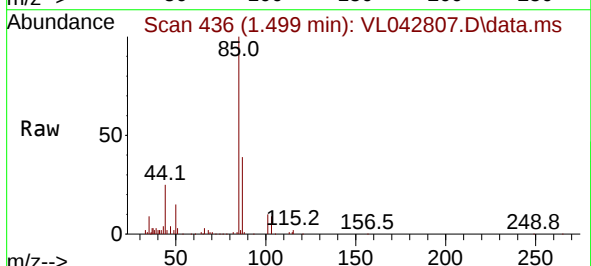
Manual Integrations
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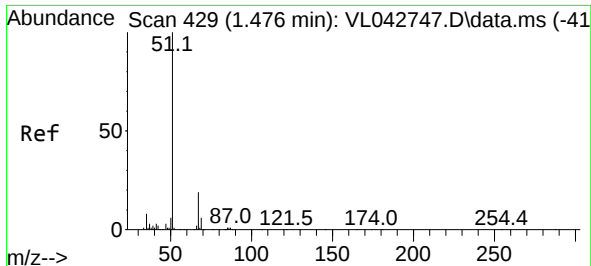
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#2
Dichlorodifluoromethane
Concen: 0.574 ppbv m
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

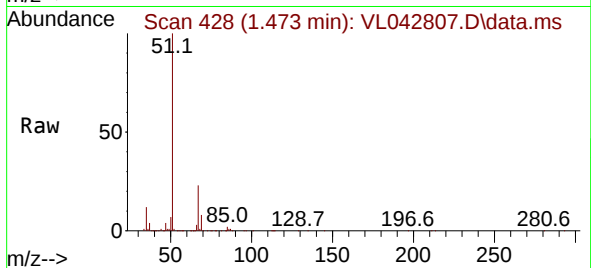
Tgt Ion: 85 Resp: 11984
Ion Ratio Lower Upper
85 100
87 39.5 25.4 38.2#





#3
Chlorodifluoromethane
Concen: 41.926 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

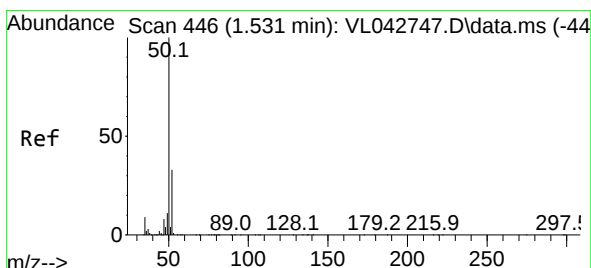
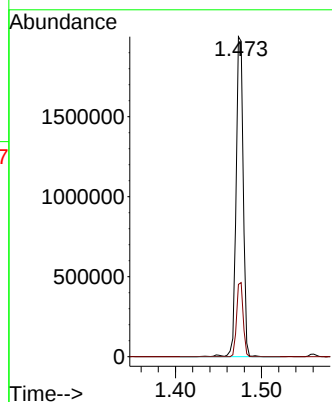
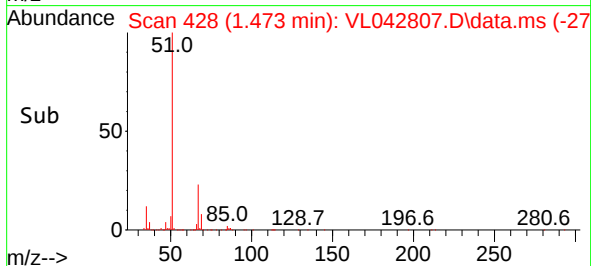
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9



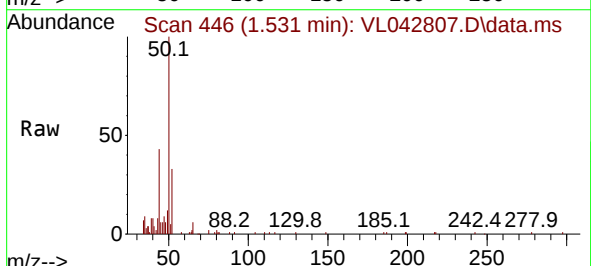
Tgt Ion: 51 Resp: 1140692
Ion Ratio Lower Upper
51 100
67 21.3 15.0 22.6

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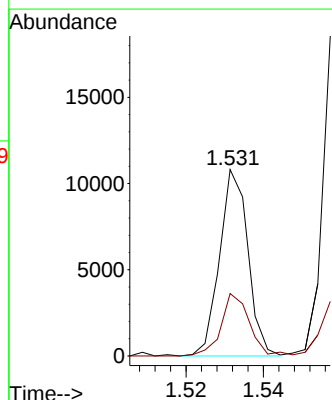
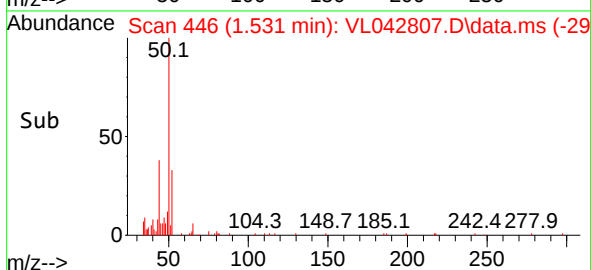
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

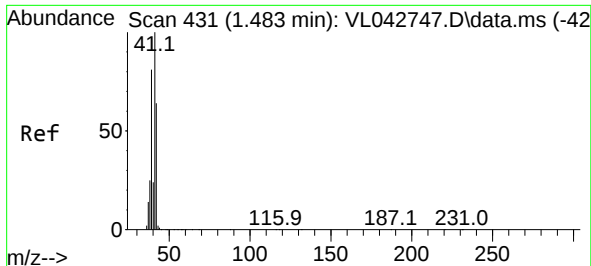


#4
Chloromethane
Concen: 0.652 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17



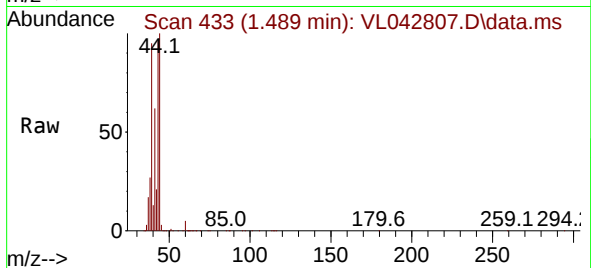
Tgt Ion: 50 Resp: 5508
Ion Ratio Lower Upper
50 100
52 33.7 26.6 40.0





#9
 Propene
 Concen: 13.192 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042807.D
 Acq: 04 Aug 2025 16:17

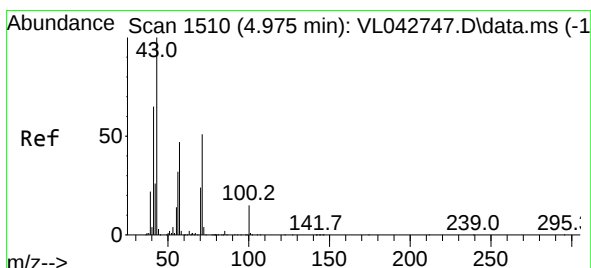
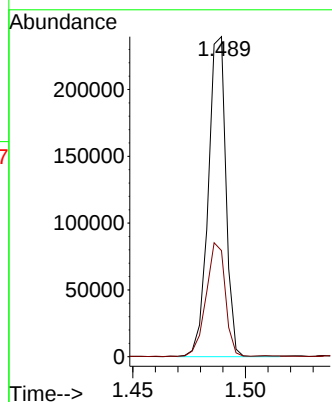
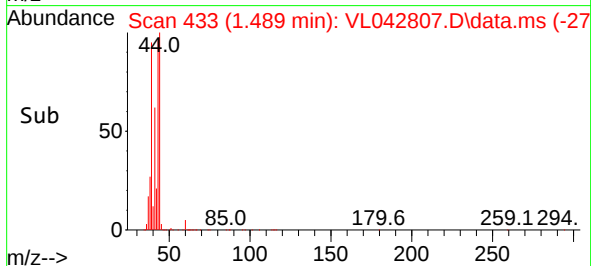
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-9



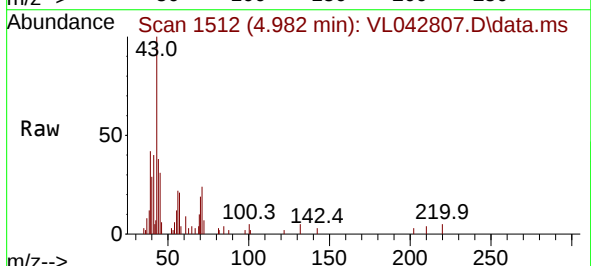
Tgt Ion: 41 Resp: 13045
 Ion Ratio Lower Upper
 41 100
 42 240.9 53.2 79.8

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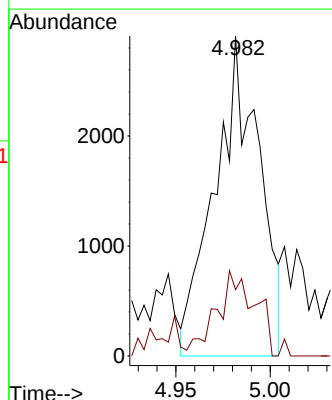
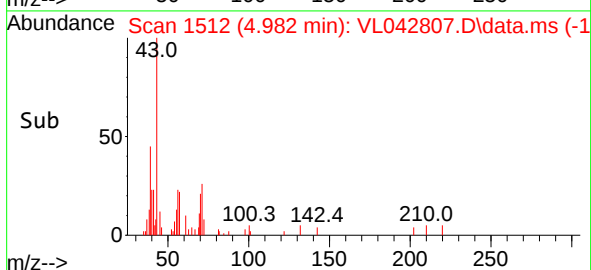
Reviewed By :Semsettin Yesilyurt 08/06/2025
 Supervised By :Mahesh Dadoda 08/06/2025

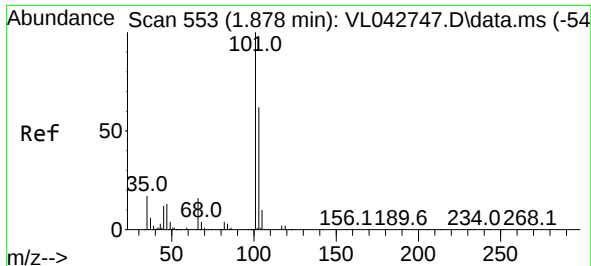


#10
 Heptane
 Concen: 0.178 ppbv m
 RT: 4.982 min Scan# 1512
 Delta R.T. 0.007 min
 Lab File: VL042807.D
 Acq: 04 Aug 2025 16:17



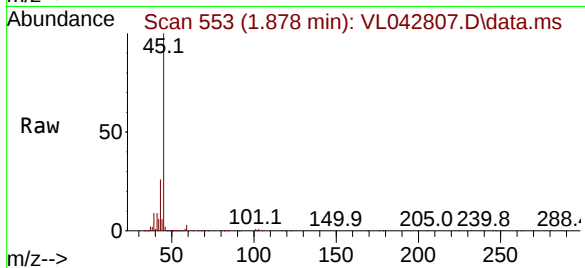
Tgt Ion: 43 Resp: 4748
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 0.225 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042807.D
 Acq: 04 Aug 2025 16:17

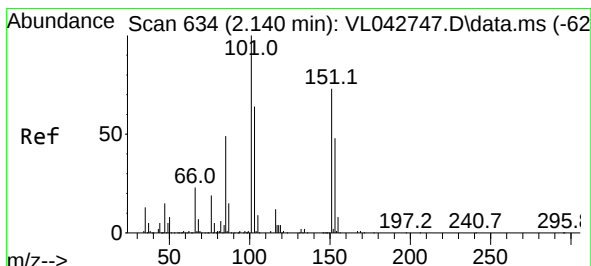
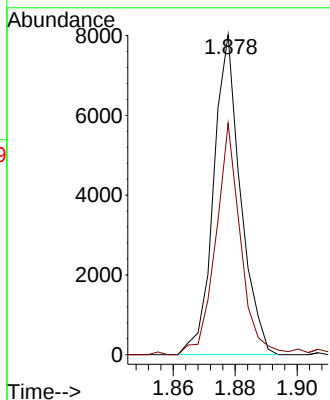
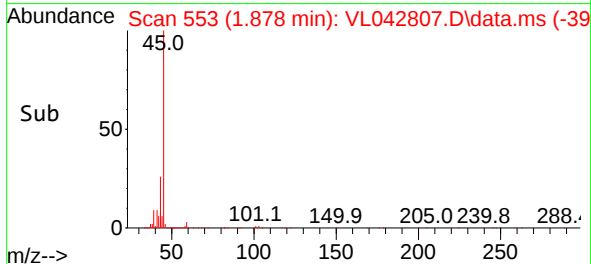
Instrument :
 MSVOA_L
 ClientSampleId :
 WONDER IA-9



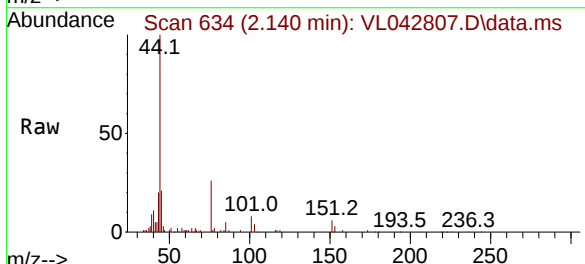
Tgt Ion:101 Resp: 4840
 Ion Ratio Lower Upper
 101 100
 103 72.3 49.6 74.4

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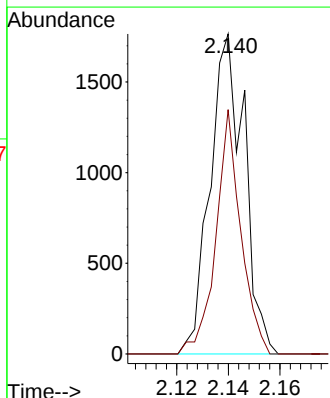
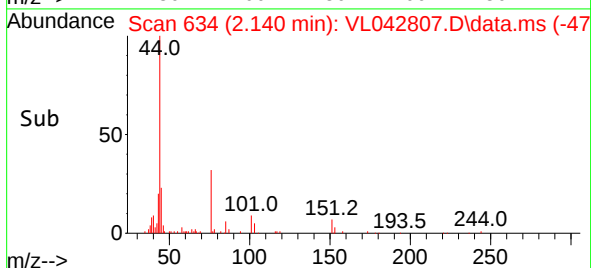
Reviewed By :Semsettin Yesilyurt 08/06/2025
 Supervised By :Mahesh Dadoda 08/06/2025

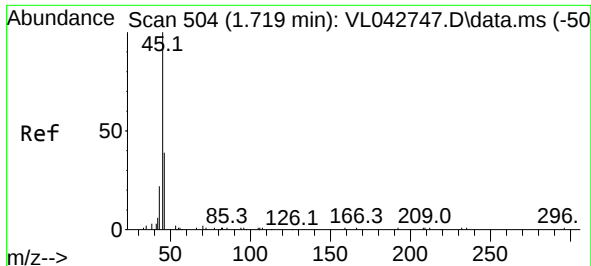


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.100 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.000 min
 Lab File: VL042807.D
 Acq: 04 Aug 2025 16:17



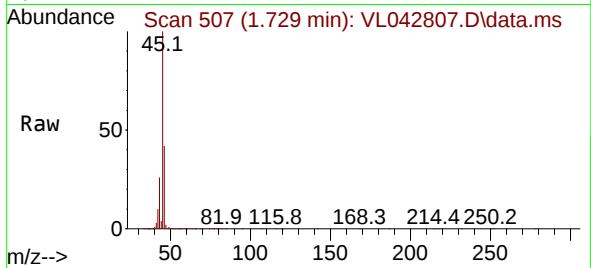
Tgt Ion:101 Resp: 1630
 Ion Ratio Lower Upper
 101 100
 151 55.3 60.5 90.7#





#13
Ethanol
Concen: 3883.569 ppbv
RT: 1.729 min Scan# 50
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

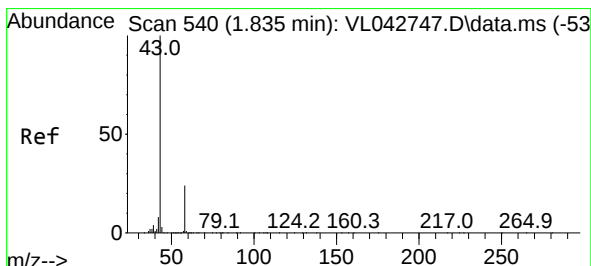
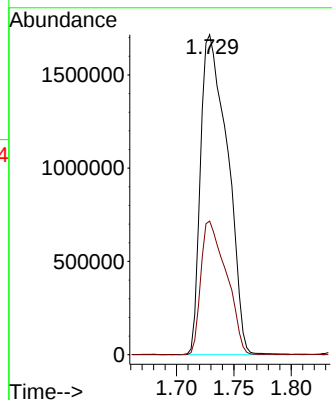
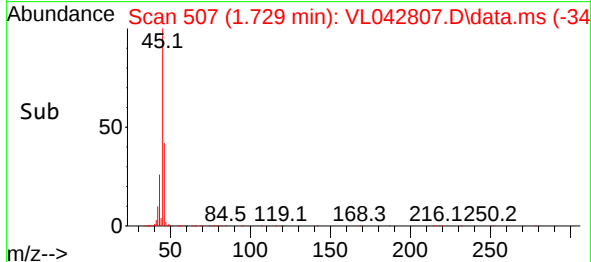
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9



Tgt Ion: 45 Resp: 2797020
Ion Ratio Lower Upper
45 100
46 39.8 17.8 71.4

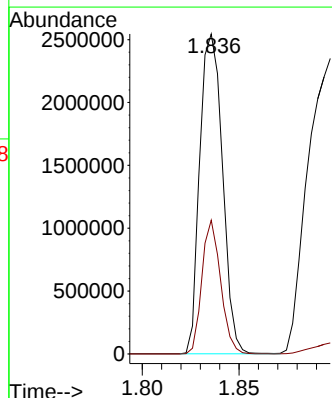
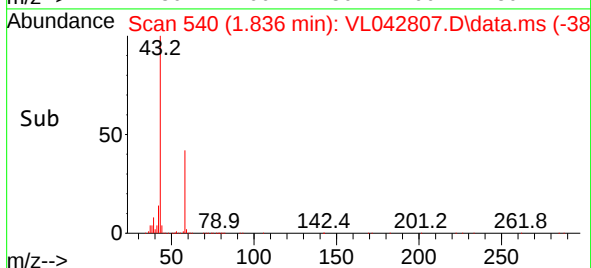
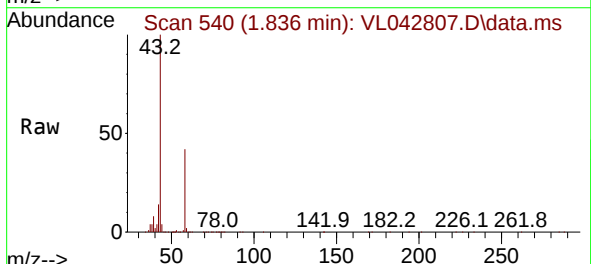
Manual Integrations
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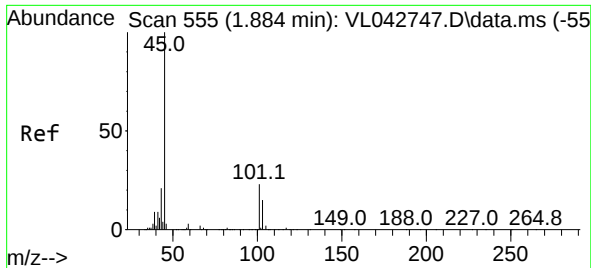
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#15
Acetone
Concen: 95.580 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 43 Resp: 2084891
Ion Ratio Lower Upper
43 100
58 34.5 19.8 29.8#





#19

Isopropyl Alcohol

Concen: 1568.534 ppbv

RT: 1.959 min Scan# 51

Delta R.T. 0.075 min

Lab File: VL042807.D

Acq: 04 Aug 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

WONDER IA-9

Tgt Ion: 45 Resp:1818199

Ion Ratio Lower Upper

45 100

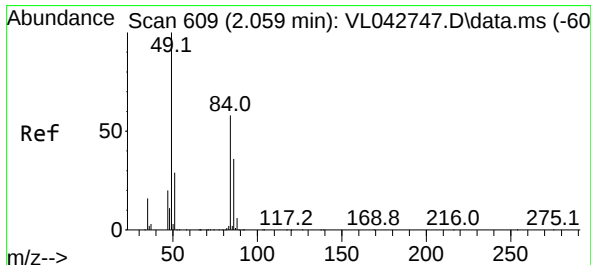
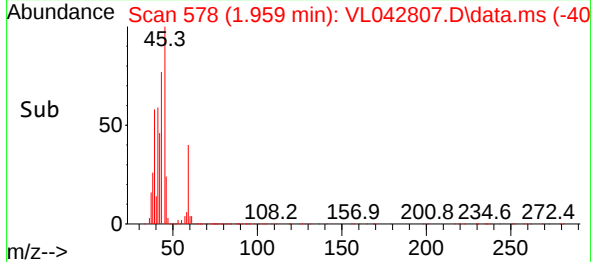
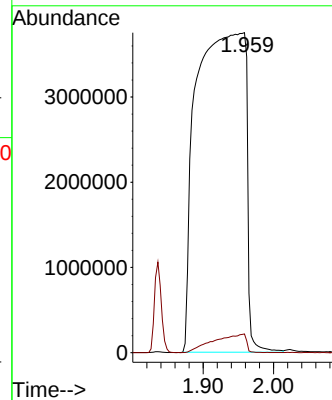
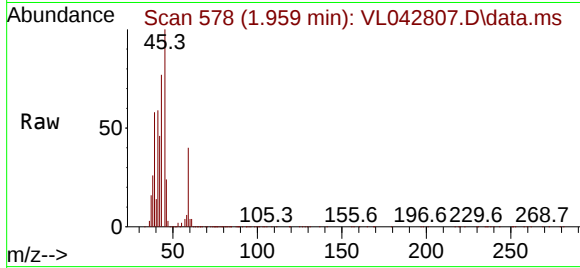
58 3.9 30.0 45.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/06/2025

Supervised By :Mahesh Dadoda 08/06/2025



#20

Methylene Chloride

Concen: 0.796 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.007 min

Lab File: VL042807.D

Acq: 04 Aug 2025 16:17

Tgt Ion: 84 Resp: 5475

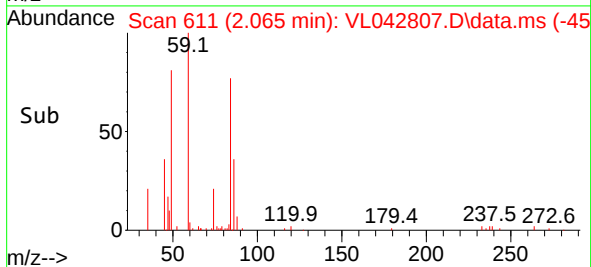
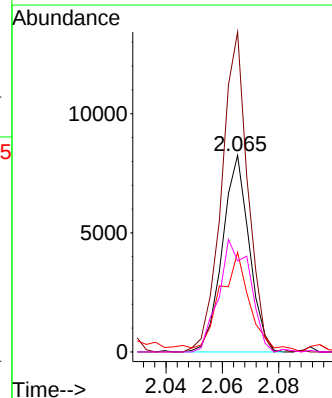
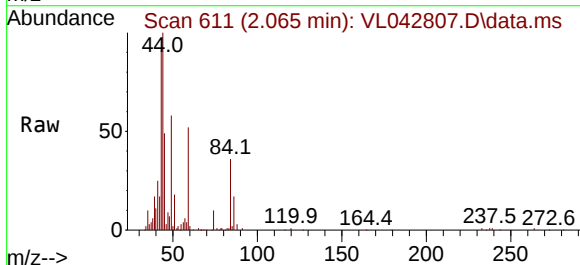
Ion Ratio Lower Upper

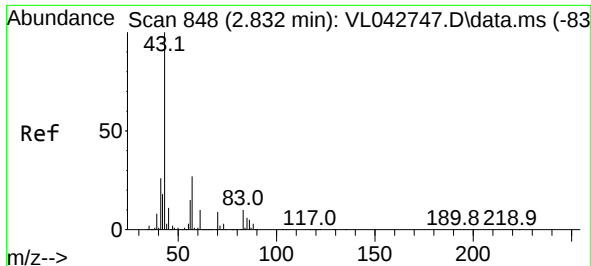
84 100

49 162.8 138.6 208.0

51 48.0 40.6 61.0

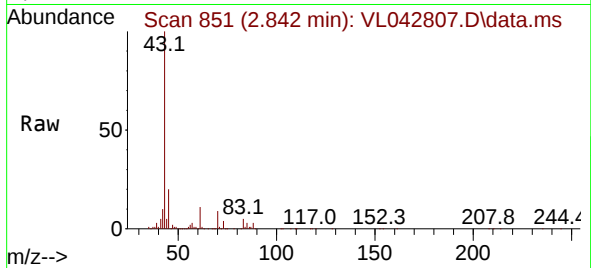
86 46.3 49.8 74.8





#25
Ethyl Acetate
Concen: 3.203 ppbv m
RT: 2.842 min Scan# 848
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

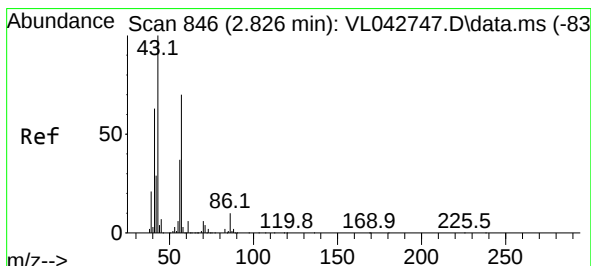
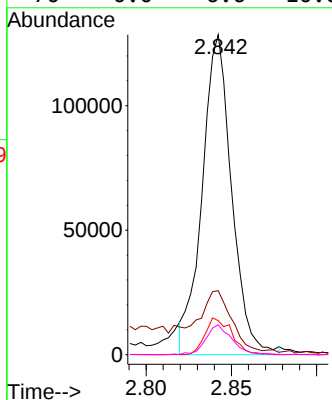
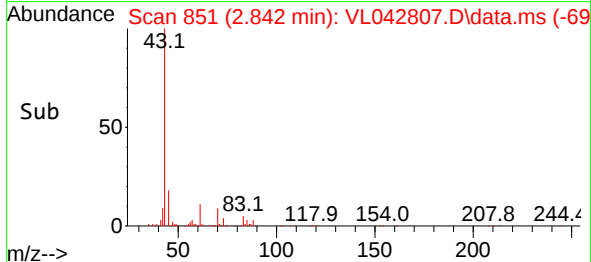
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9



Tgt Ion: 43 Resp: 154660
Ion Ratio Lower Upper
43 100
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61 0.0 6.7 10.1
70 0.0 6.6 10.0

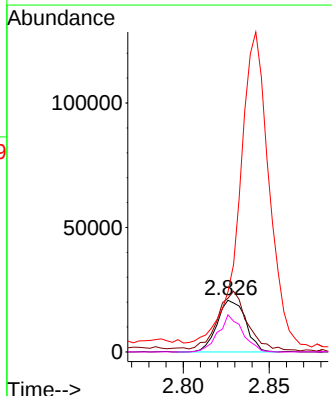
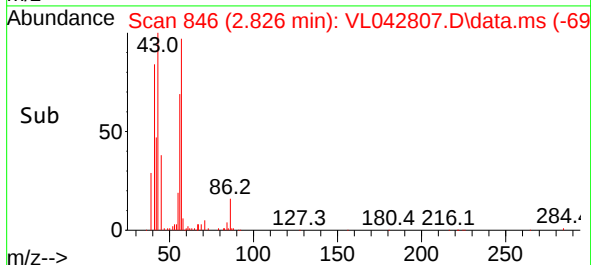
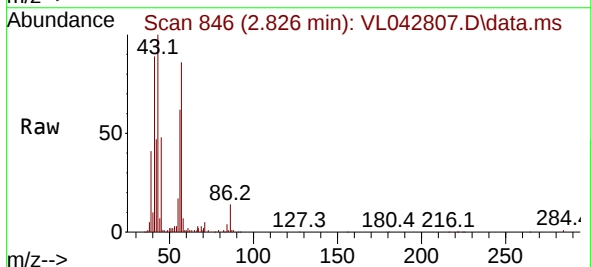
Manual Integrations
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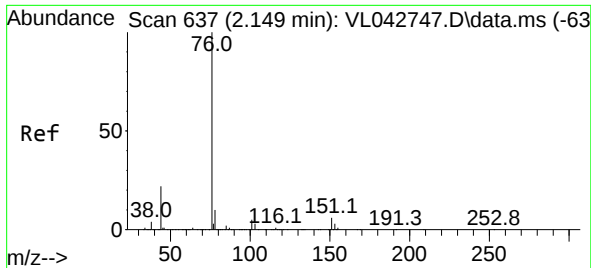
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#26
Hexane
Concen: 1.130 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion: 57 Resp: 23936
Ion Ratio Lower Upper
57 100
41 130.1 75.4 113.2#
43 701.5 185.0 277.6#
56 61.4 42.9 64.3





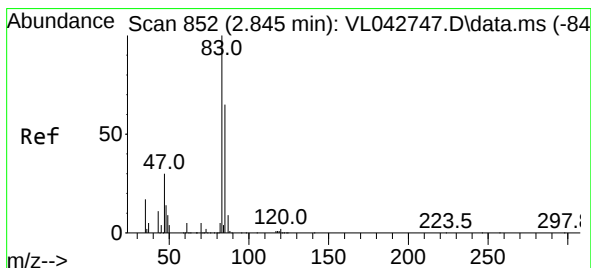
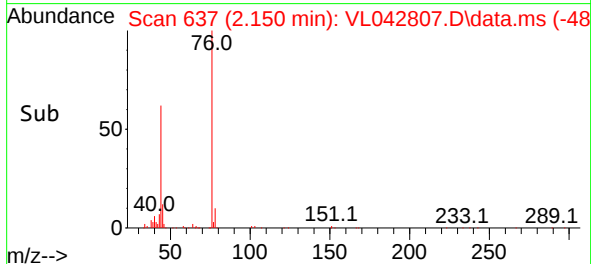
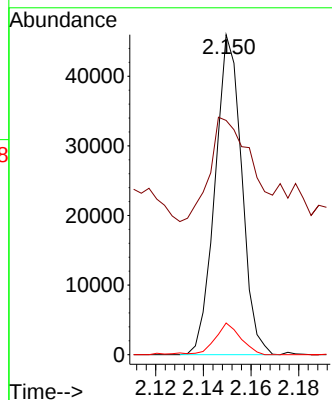
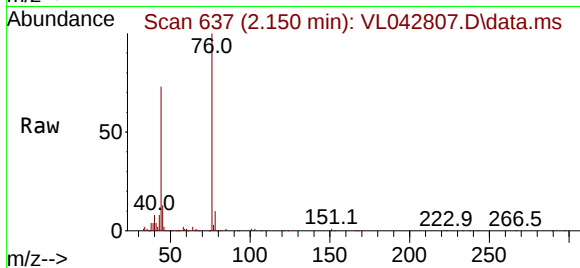
#27
Carbon Disulfide
Concen: 1.965 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 76 Resp: 35620
Ion Ratio Lower Upper
76 100
44 0.0 19.3 28.9
78 9.8 9.9 14.9

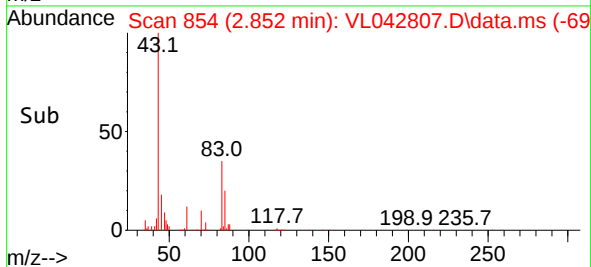
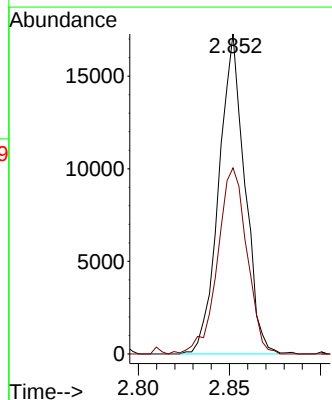
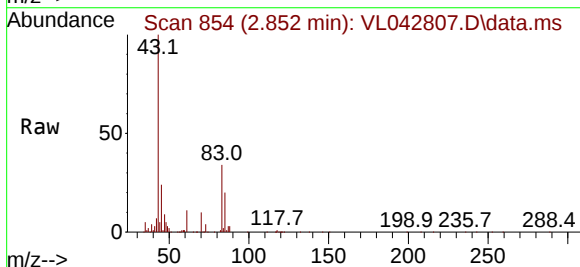
Manual Integrations
APPROVED

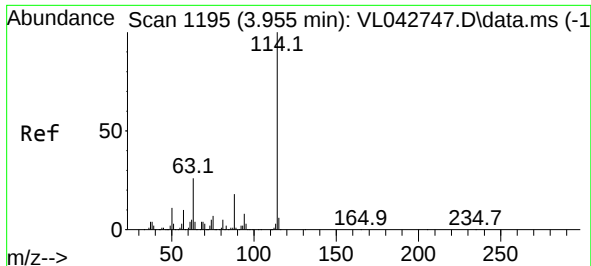
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#29
Chloroform
Concen: 0.522 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

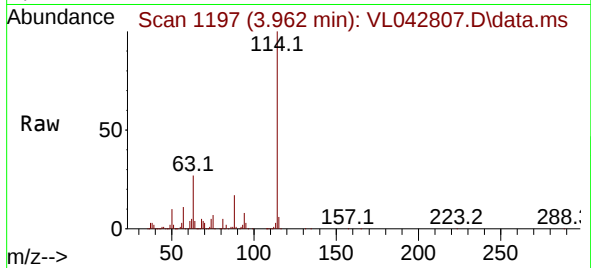
Tgt Ion: 83 Resp: 17081
Ion Ratio Lower Upper
83 100
85 58.1 52.2 78.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1195
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

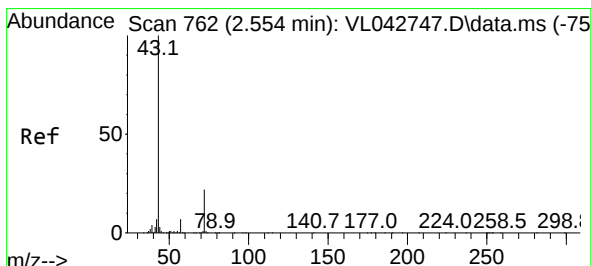
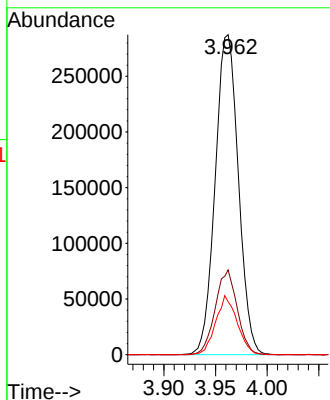
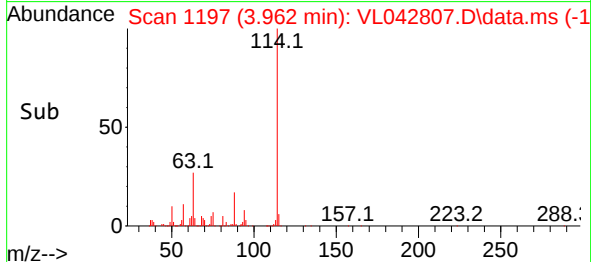
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9



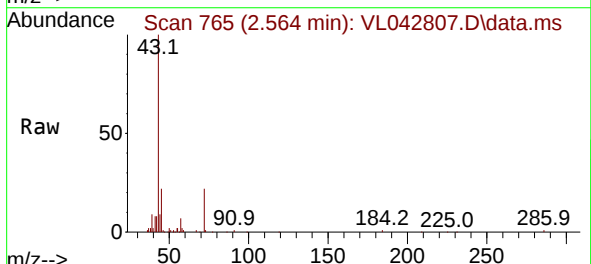
Tgt Ion:114 Resp: 449056
Ion Ratio Lower Upper
114 100
63 25.2 20.5 30.7
88 17.1 14.0 21.0

Manual Integrations
APPROVED

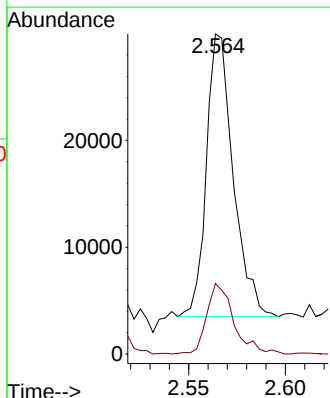
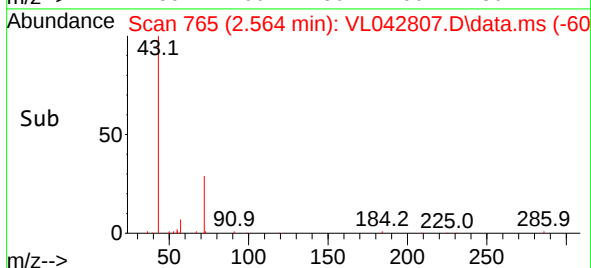
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

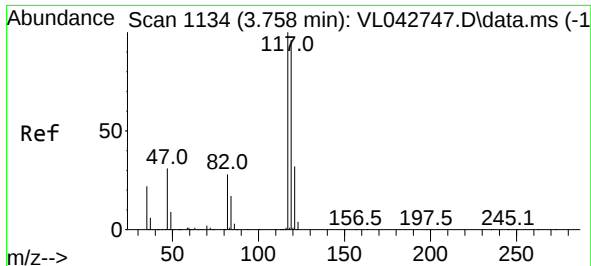


#34
2-Butanone
Concen: 0.804 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17



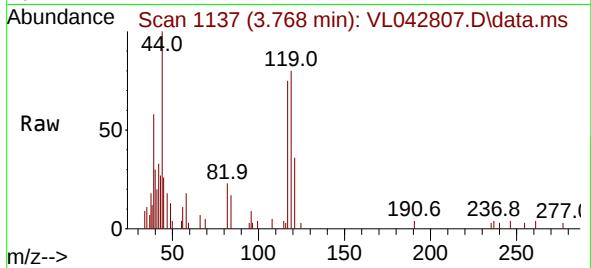
Tgt Ion: 43 Resp: 25565
Ion Ratio Lower Upper
43 100
72 25.4 17.4 26.0





#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 3.768 min Scan# 1134
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

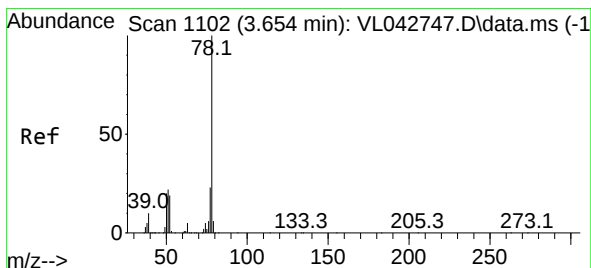
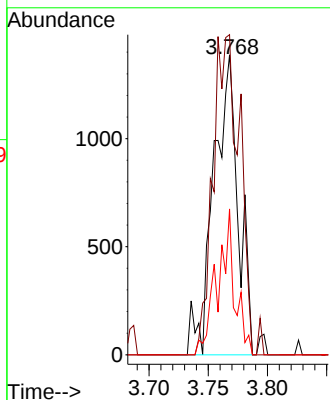
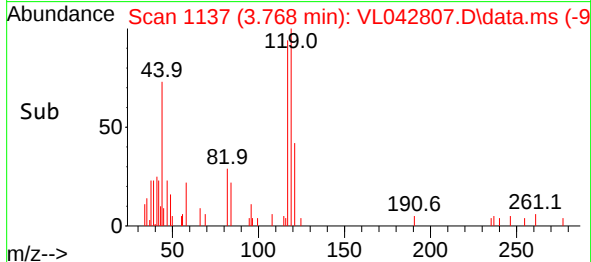
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9



Tgt Ion: 117 Resp: 2034
Ion Ratio Lower Upper
117 100
119 106.7 77.1 115.7
121 48.6 25.5 38.3

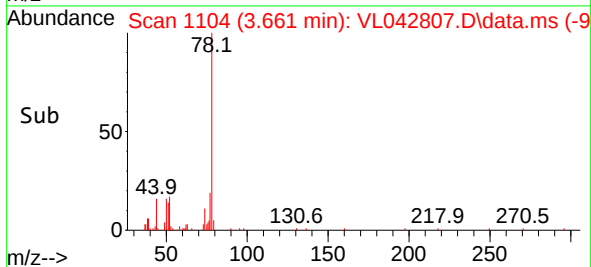
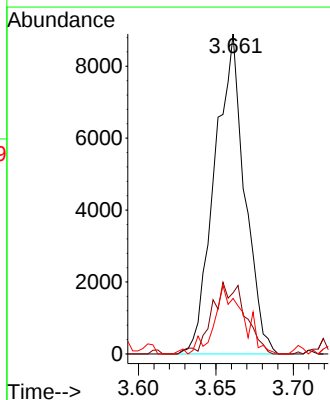
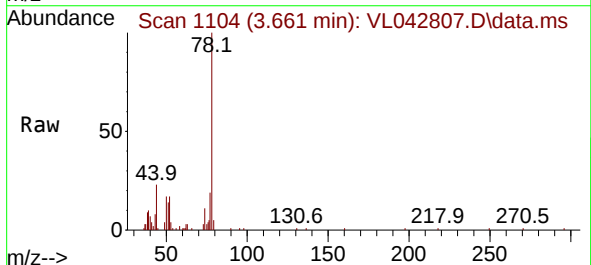
Manual Integrations
APPROVED

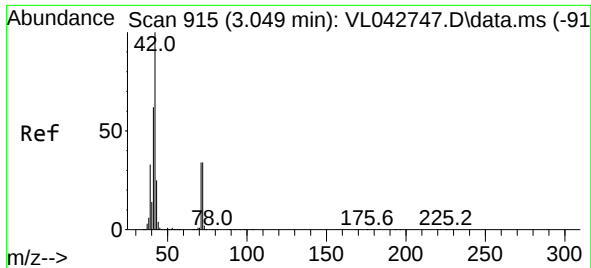
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#36
Benzene
Concen: 0.283 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

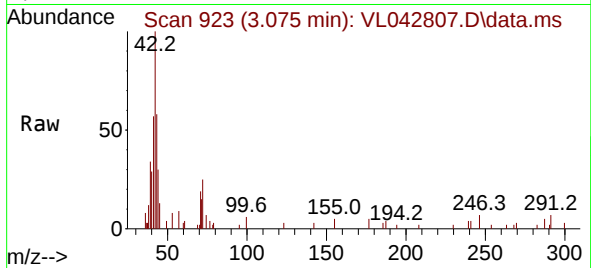
Tgt Ion: 78 Resp: 12056
Ion Ratio Lower Upper
78 100
77 19.1 18.5 27.7
50 17.3 16.2 24.2





#41
Tetrahydrofuran
Concen: 0.312 ppbv m
RT: 3.075 min Scan# 915
Delta R.T. 0.026 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

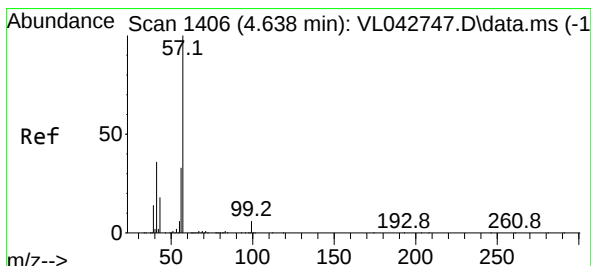
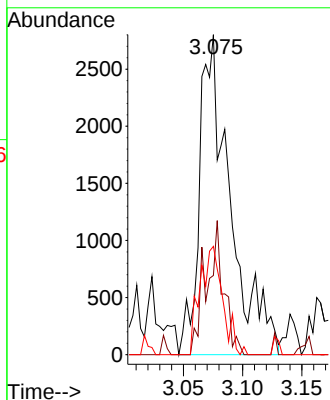
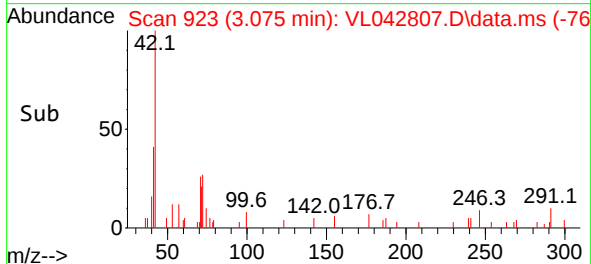
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9



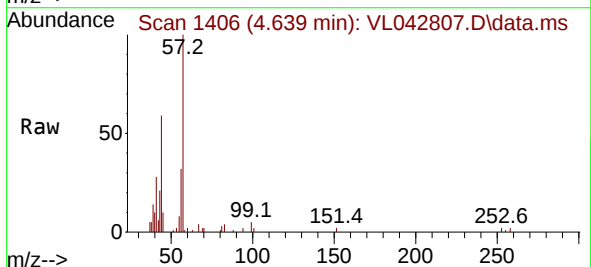
Tgt Ion: 42 Resp: 505
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 0.0 28.6 43.0#

Manual Integrations
APPROVED

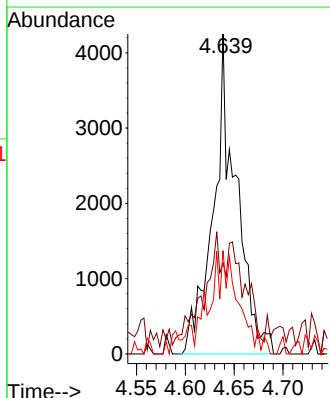
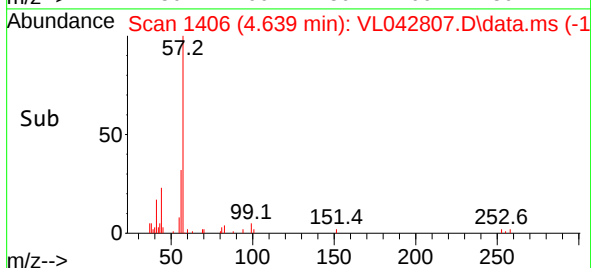
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025

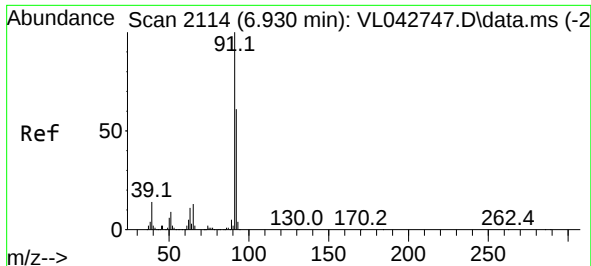


#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv m
RT: 4.639 min Scan# 1406
Delta R.T. 0.000 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17



Tgt Ion: 57 Resp: 6941
Ion Ratio Lower Upper
57 100
41 0.0 28.3 42.5#
56 0.0 25.8 38.6#





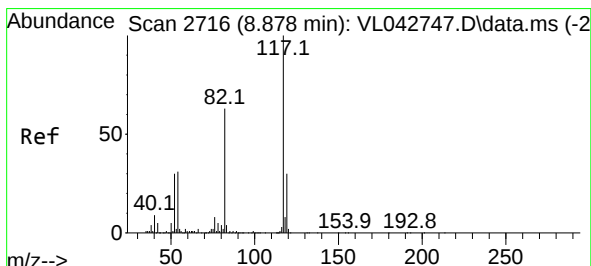
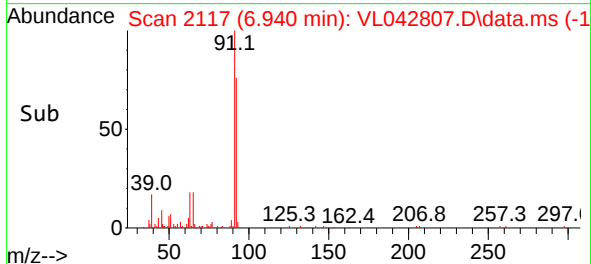
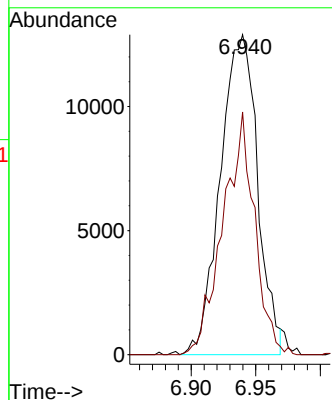
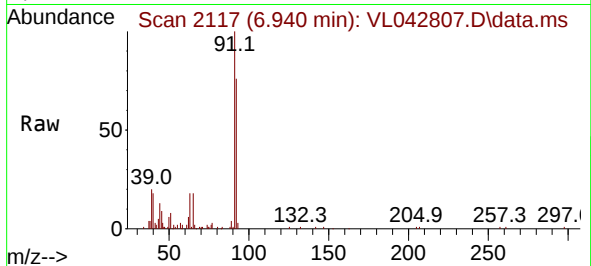
#53
Toluene
Concen: 0.565 ppbv
RT: 6.940 min Scan# 2114
Delta R.T. 0.010 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 91 Resp: 2582
Ion Ratio Lower Upper
91 100
92 64.6 48.0 72.0

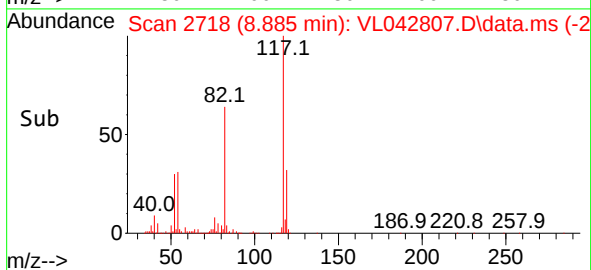
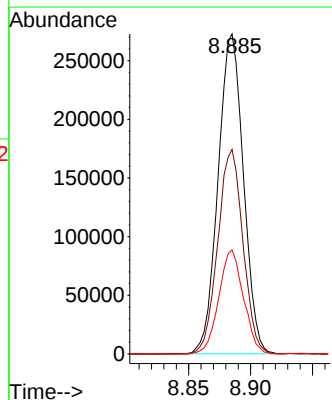
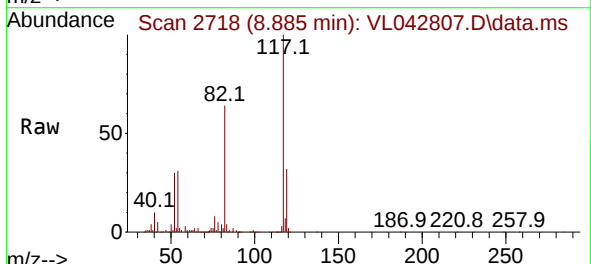
Manual Integrations
APPROVED

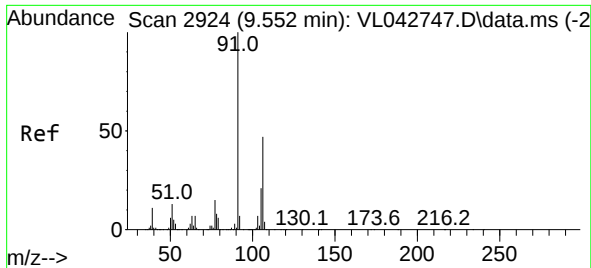
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Tgt Ion:117 Resp: 389304
Ion Ratio Lower Upper
117 100
82 63.4 53.3 79.9
119 31.7 25.8 38.6





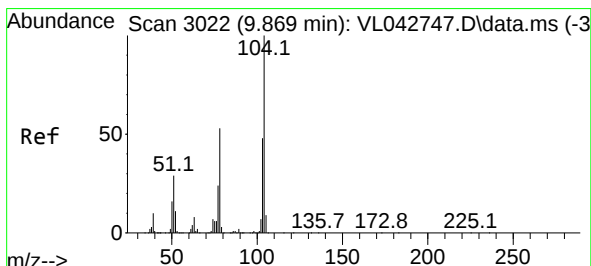
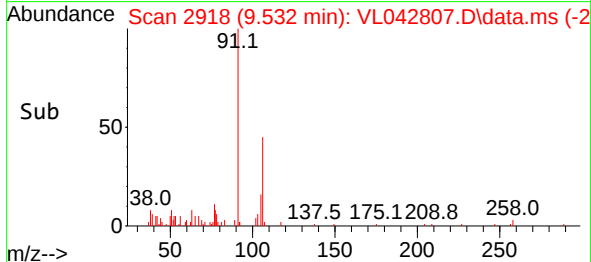
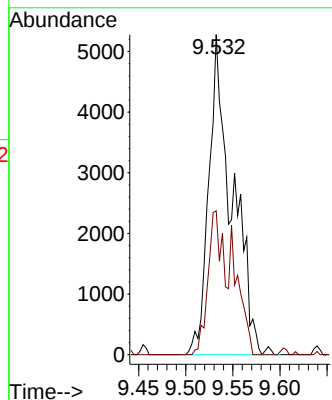
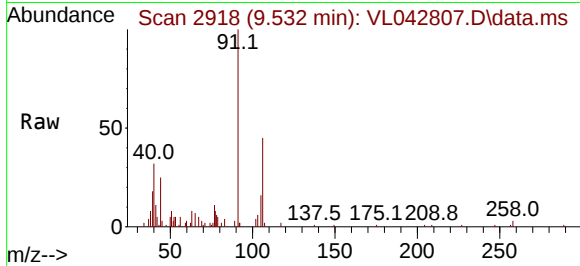
#59
m/p-Xylene
Concen: 0.185 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9

Tgt Ion: 91 Resp: 9070
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

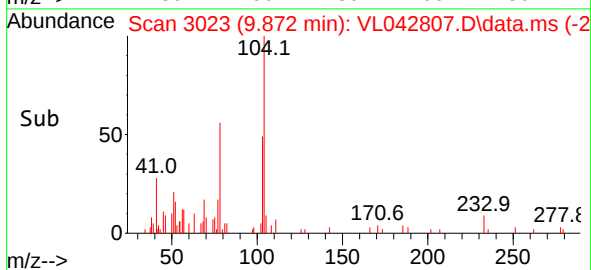
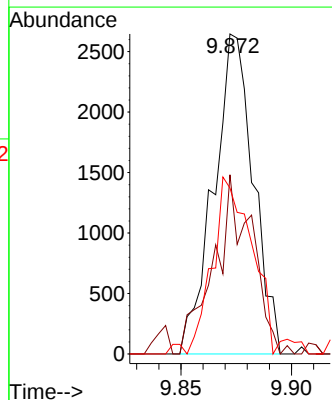
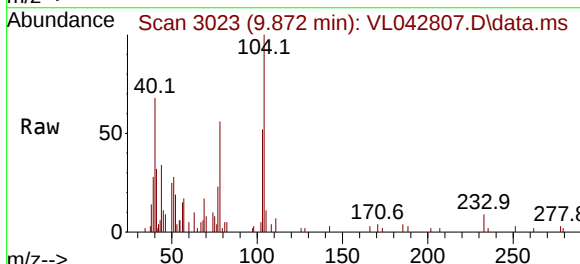
Manual Integrations
APPROVED

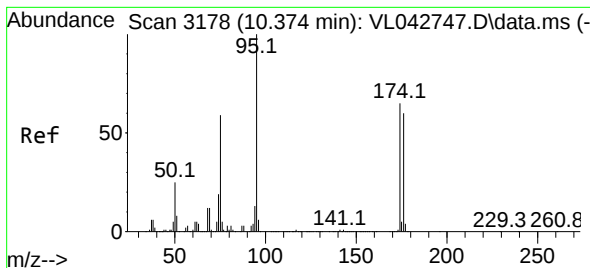
Reviewed By :Semsettin Yesilyurt 08/06/2025
Supervised By :Mahesh Dadoda 08/06/2025



#61
Styrene
Concen: 0.160 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

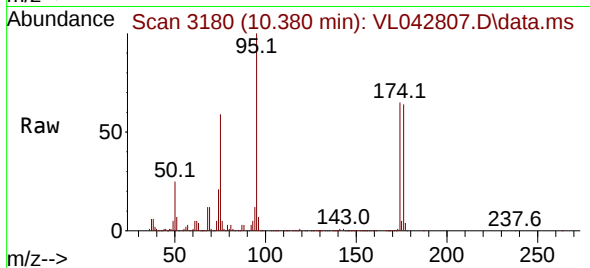
Tgt Ion:104 Resp: 3300
Ion Ratio Lower Upper
104 100
78 57.8 41.5 62.3
103 58.7 37.5 56.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.438 ppbv
RT: 10.380 min Scan# 3178
Delta R.T. 0.007 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17

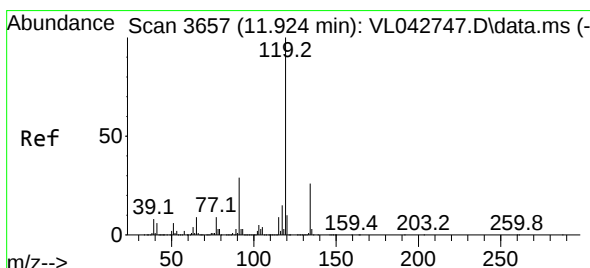
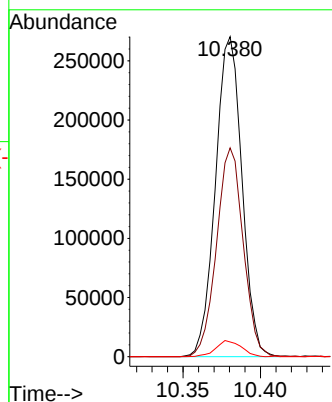
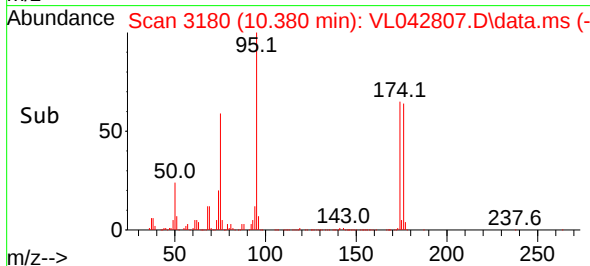
Instrument :
MSVOA_L
ClientSampleId :
WONDER IA-9



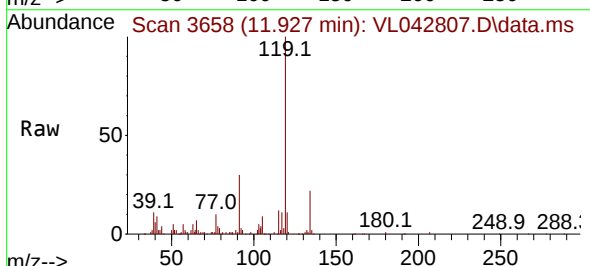
Tgt Ion: 95 Resp: 321819
Ion Ratio Lower Upper
95 100
174 65.7 53.8 80.6
175 4.9 4.0 6.0

Manual Integrations
APPROVED

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



#69
p-Isopropyltoluene
Concen: 0.414 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042807.D
Acq: 04 Aug 2025 16:17



Tgt Ion:119 Resp: 30916
Ion Ratio Lower Upper
119 100
134 25.2 20.6 31.0
91 32.9 23.2 34.8

