

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041967.D
 Acq On : 03 Feb 2025 16:35
 Operator : SY/MD
 Sample : Q1222-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:38:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	150093	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	411838	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	358723	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	281200	9.952	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

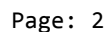
Target Compounds

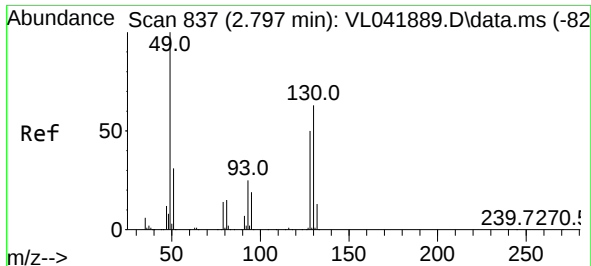
						Qvalue
2) Dichlorodifluoromethane	1.502	85	8300	0.406	ppbv #	85
3) Chlorodifluoromethane	1.480	51	5789m	0.270	ppbv	
4) Chloromethane	1.535	50	3962	0.515	ppbv #	87
9) Propene	1.489	41	55274m	6.265	ppbv	
10) Heptane	4.995	43	111593	4.732	ppbv	99
11) Trichlorofluoromethane	1.881	101	4572	0.215	ppbv	99
13) Ethanol	1.726	45	507156	784.773	ppbv	89
15) Acetone	1.839	43	304441	16.888	ppbv	94
19) Isopropyl Alcohol	1.891	45	262017	24.513	ppbv #	76
20) Methylene Chloride	2.069	84	2275	0.319	ppbv #	91
26) Hexane	2.832	57	14728	0.766	ppbv #	68
29) Chloroform	2.855	83	11281	0.371	ppbv	95
30) Cyclohexane	3.868	84	10115	0.607	ppbv #	90
34) 2-Butanone	2.567	43	38426	1.467	ppbv	100
35) Carbon Tetrachloride	3.774	117	1747m	0.068	ppbv	
36) Benzene	3.671	78	13894	0.368	ppbv #	92
41) Tetrahydrofuran	3.075	42	8618	0.605	ppbv	92
44) 2,2,4-Trimethylpentane	4.658	57	19641m	0.321	ppbv	
52) Tetrachloroethene	8.225	164	1044m	0.080	ppbv	
53) Toluene	6.949	91	58221	1.415	ppbv	99
58) Ethyl Benzene	9.364	91	11254	0.201	ppbv #	78
59) m/p-Xylene	9.539	91	47247	1.051	ppbv	95
60) o-Xylene	9.972	91	18366	0.412	ppbv	98
74) 1,2,4-Trimethylbenzene	11.545	105	18298	0.359	ppbv #	54

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

Manual Integrations

Quant Time: Feb 04 02:38:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





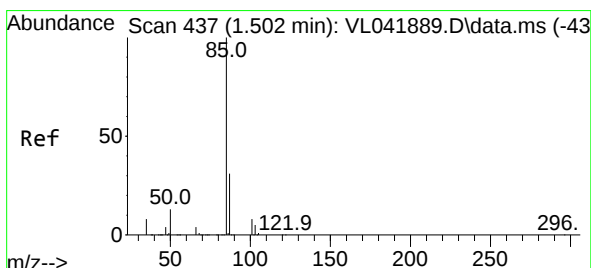
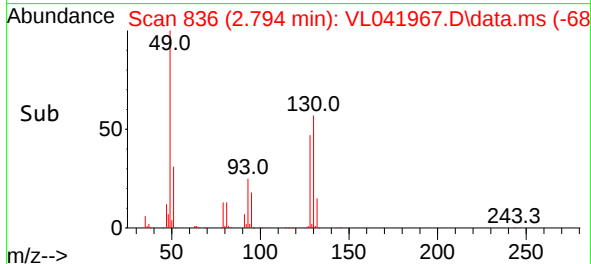
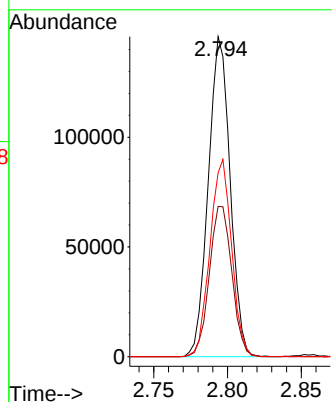
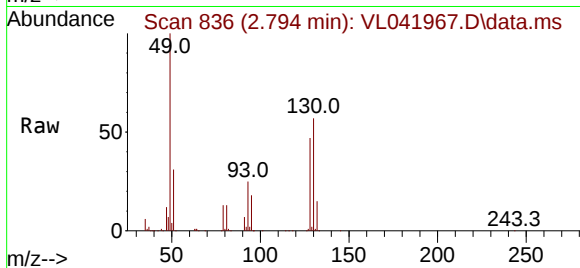
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 15009
Ion Ratio Lower Upper
49 100
128 48.4 24.3 73.0
130 61.1 31.1 93.2

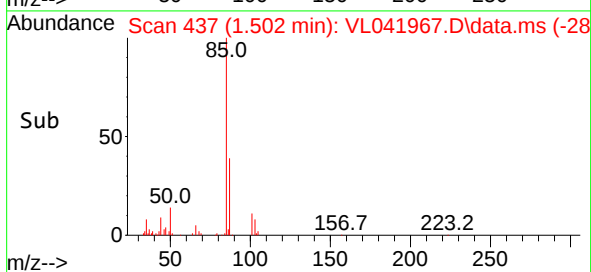
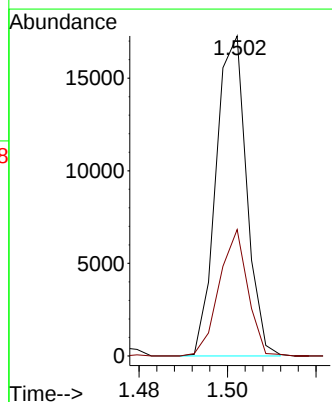
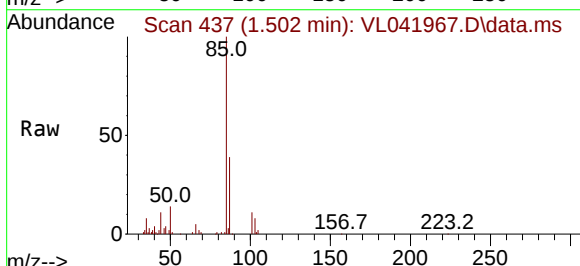
Manual Integrations
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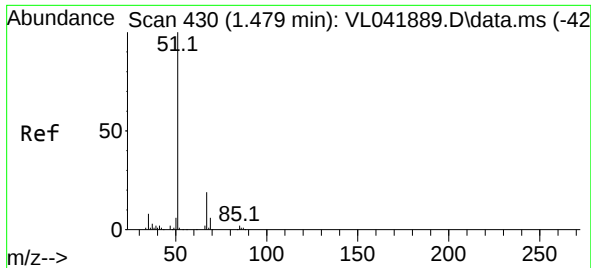
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#2
Dichlorodifluoromethane
Concen: 0.406 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

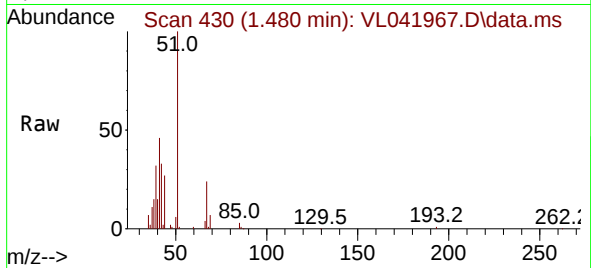
Tgt Ion: 85 Resp: 8300
Ion Ratio Lower Upper
85 100
87 39.5 24.9 37.3#





#3
Chlorodifluoromethane
Concen: 0.270 ppbv m
RT: 1.480 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

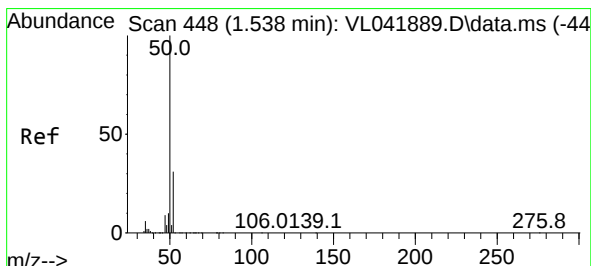
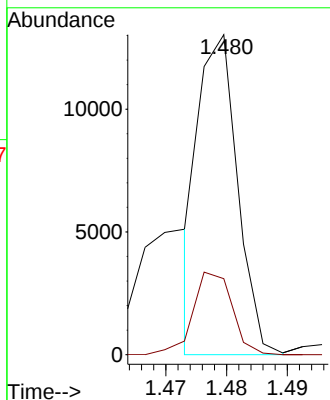
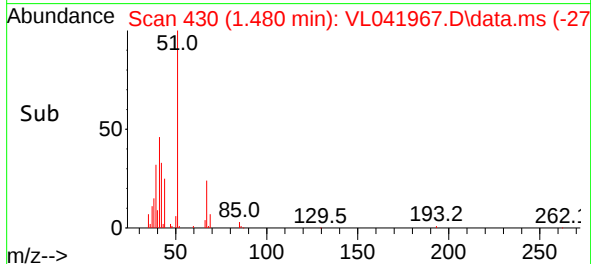
Instrument :
MSVOA_L
ClientSampleId :
IA1



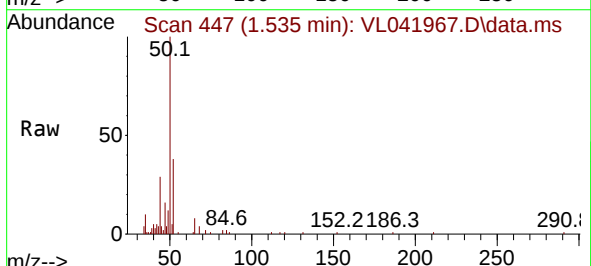
Tgt Ion: 51 Resp: 5789
Ion Ratio Lower Upper
51 100
67 26.1 15.0 22.4

Manual Integrations
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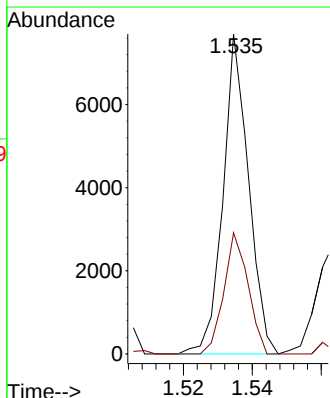
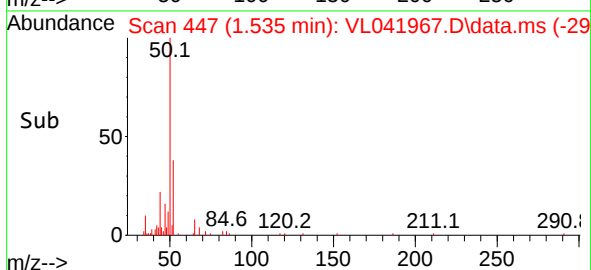
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

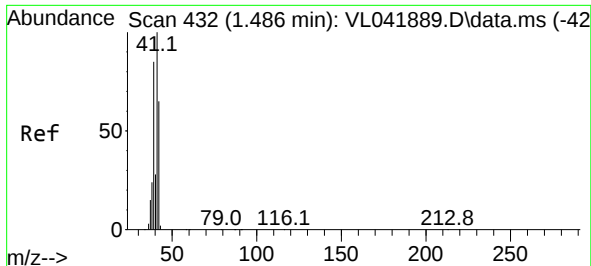


#4
Chloromethane
Concen: 0.515 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



Tgt Ion: 50 Resp: 3962
Ion Ratio Lower Upper
50 100
52 37.9 24.6 36.8





#9

Propene

Concen: 6.265 ppbv m

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 55274

Ion Ratio Lower Upper

41 100

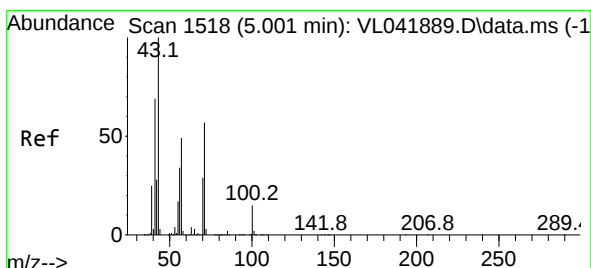
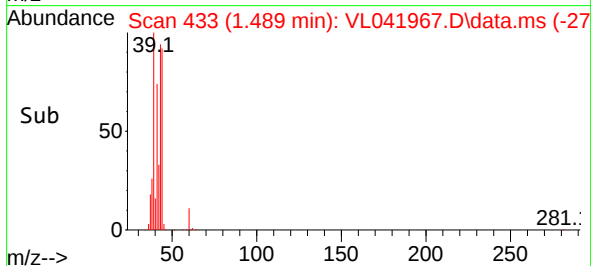
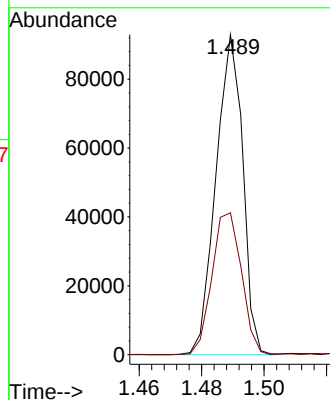
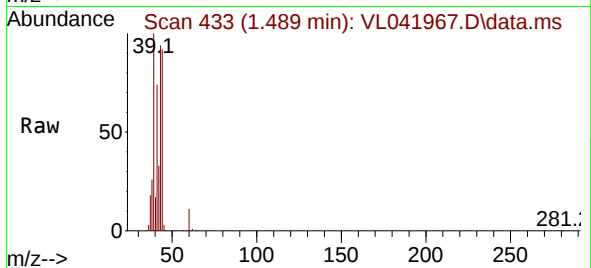
42 61.7 52.0 78.0

Manual Integrations

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Supervised By :Mahesh Dadoda 02/04/2025



#10

Heptane

Concen: 4.732 ppbv

RT: 4.995 min Scan# 1516

Delta R.T. -0.006 min

Lab File: VL041967.D

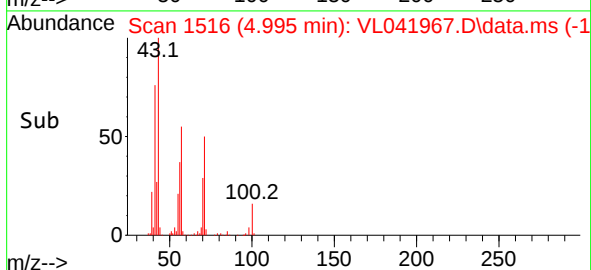
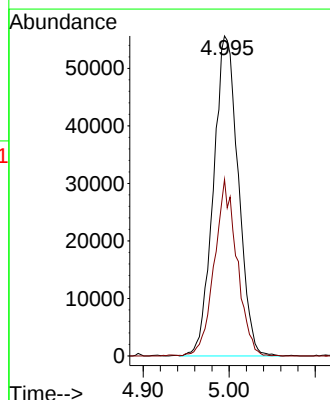
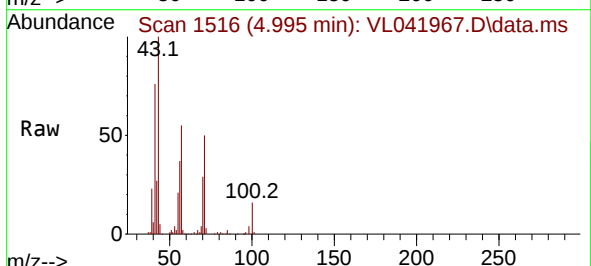
Acq: 03 Feb 2025 16:35

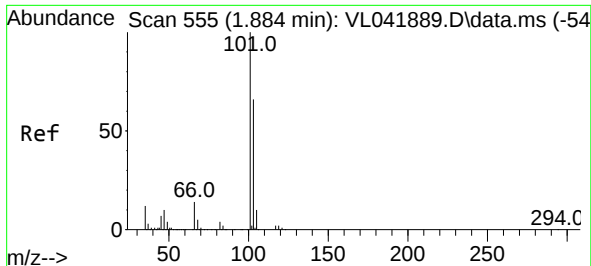
Tgt Ion: 43 Resp: 111593

Ion Ratio Lower Upper

43 100

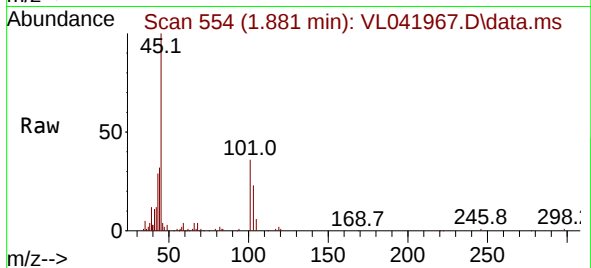
57 50.4 41.0 61.4





#11
Trichlorofluoromethane
Concen: 0.215 ppbv
RT: 1.881 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

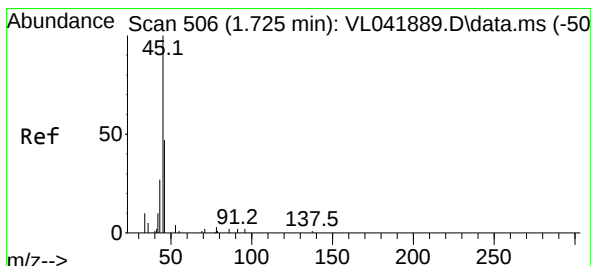
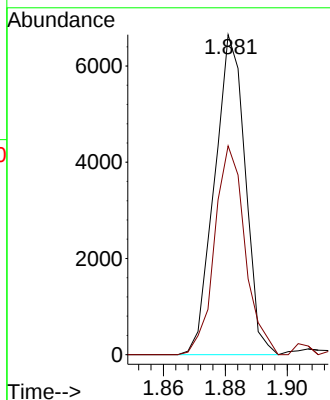
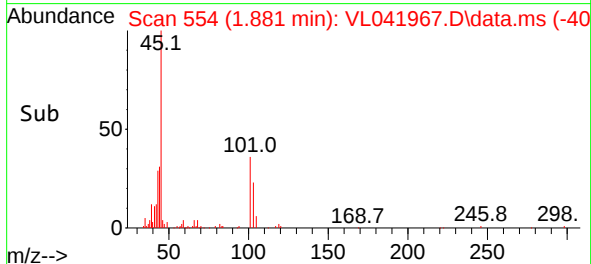
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 4572
Ion Ratio Lower Upper
101 100
103 65.3 53.1 79.7

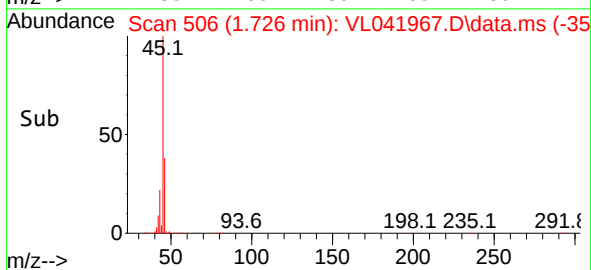
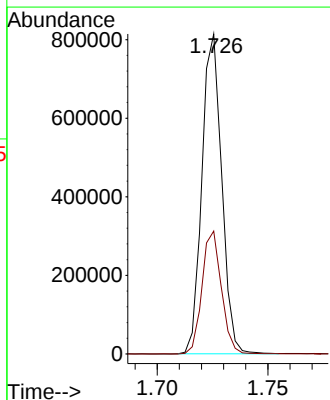
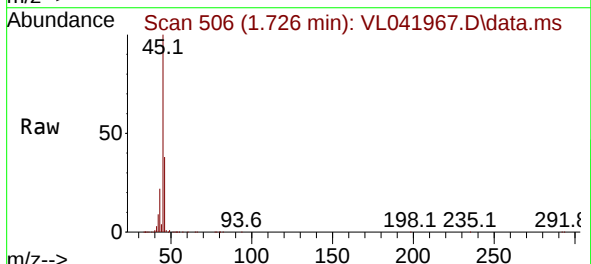
Manual Integrations
APPROVED

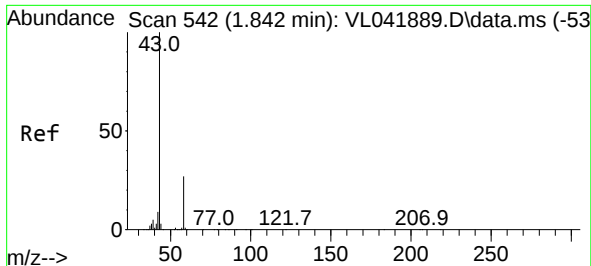
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#13
Ethanol
Concen: 784.773 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

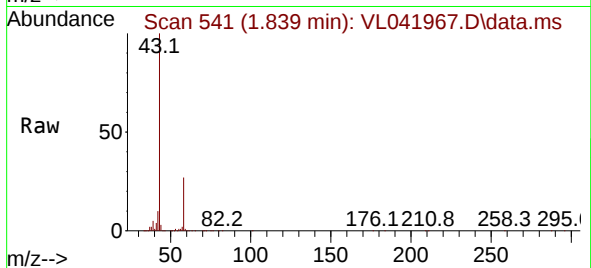
Tgt Ion: 45 Resp: 507156
Ion Ratio Lower Upper
45 100
46 37.9 18.1 72.5





#15
Acetone
Concen: 16.888 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

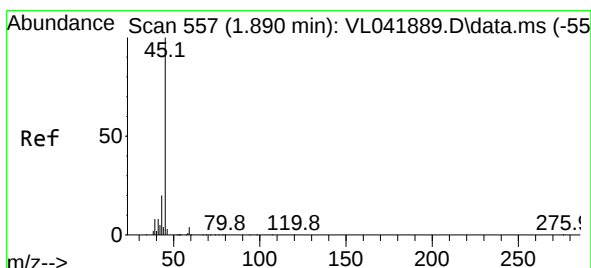
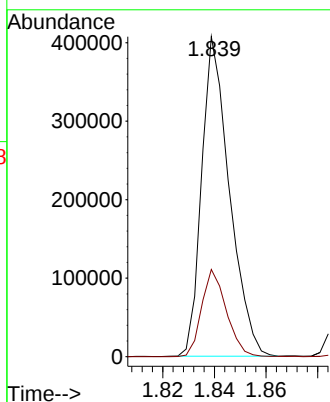
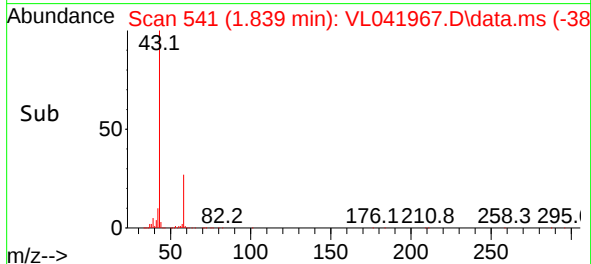
Instrument :
MSVOA_L
ClientSampleId :
IA1



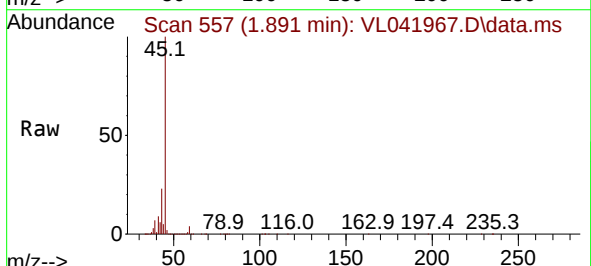
Tgt Ion: 43 Resp: 30444
Ion Ratio Lower Upper
43 100
58 24.4 21.9 32.9

Manual Integrations
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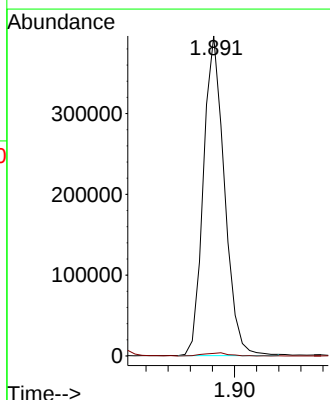
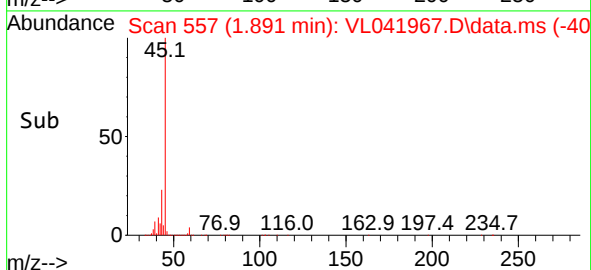
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

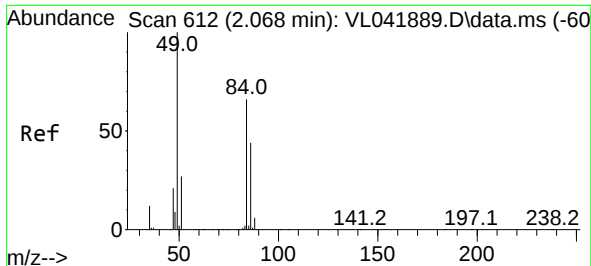


#19
Isopropyl Alcohol
Concen: 24.513 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



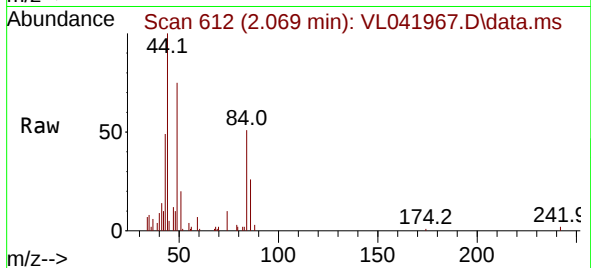
Tgt Ion: 45 Resp: 262017
Ion Ratio Lower Upper
45 100
58 28.3 35.0 52.6#





#20
Methylene Chloride
Concen: 0.319 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

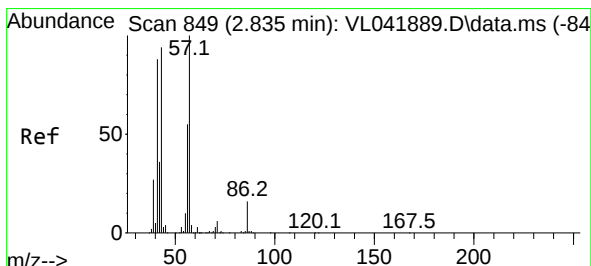
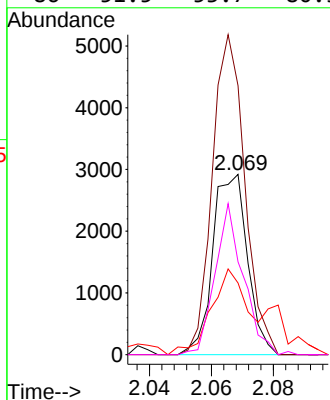
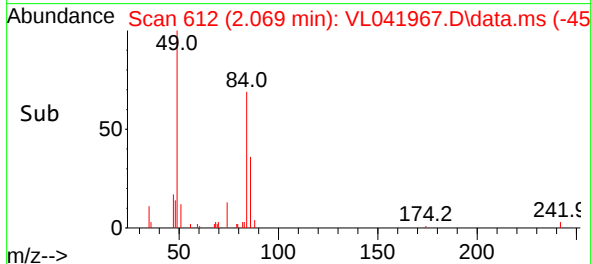
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:	84	Resp:	2279
Ion	Ratio	Lower	Upper
84	100		
49	149.2	123.1	184.7
51	37.3	35.8	53.8
86	51.5	53.7	80.5#

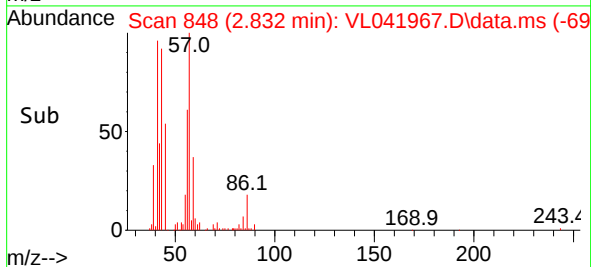
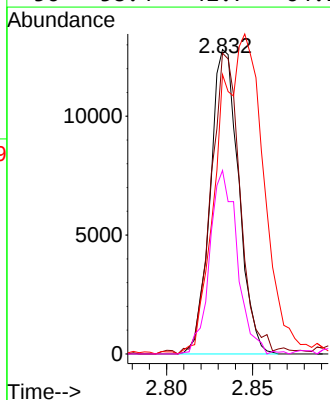
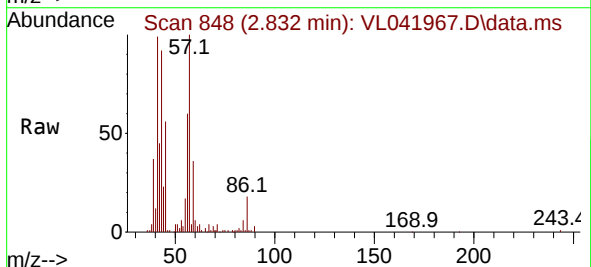
Manual Integrations
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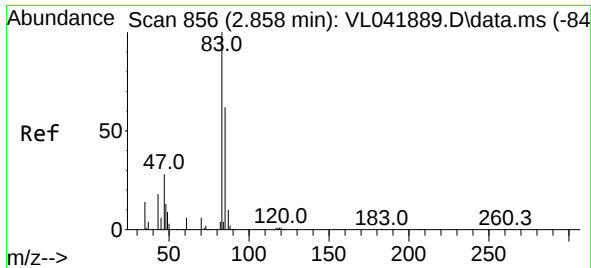
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#26
Hexane
Concen: 0.766 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

Tgt Ion:	57	Resp:	14728
Ion	Ratio	Lower	Upper
57	100		
41	102.6	73.8	110.8
43	167.7	197.3	295.9#
56	58.4	42.7	64.1





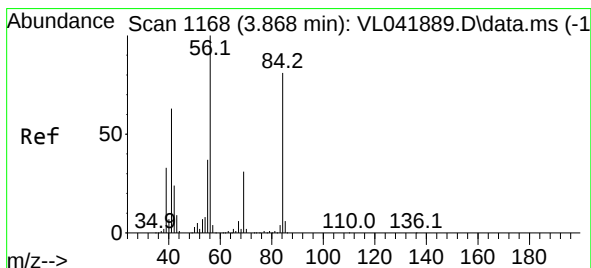
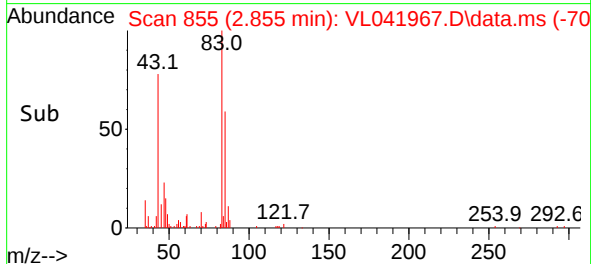
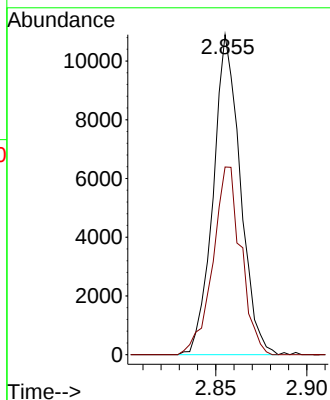
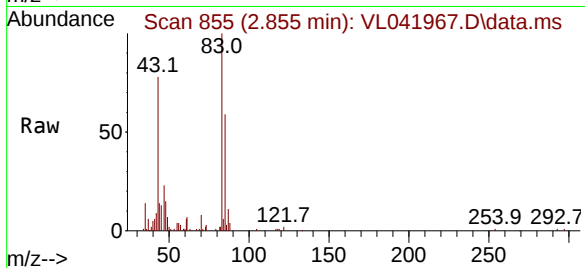
#29
Chloroform
Concen: 0.371 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 83 Resp: 1128
Ion Ratio Lower Upper
83 100
85 58.6 50.1 75.1

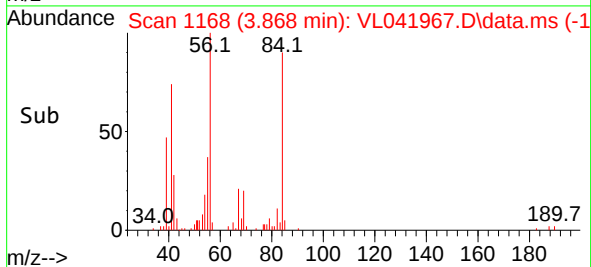
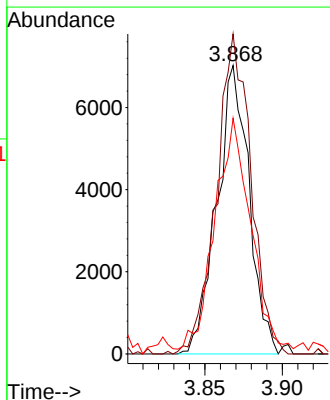
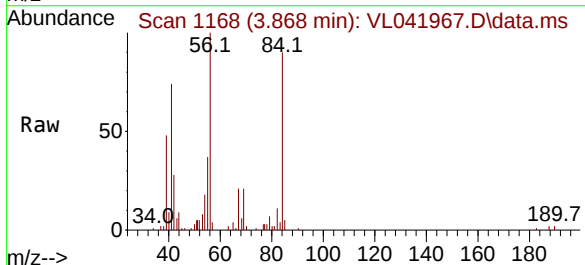
Manual Integrations
APPROVED

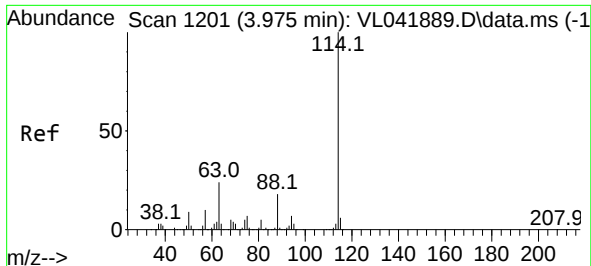
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#30
Cyclohexane
Concen: 0.607 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

Tgt Ion: 84 Resp: 10115
Ion Ratio Lower Upper
84 100
56 119.3 99.3 148.9
41 97.1 64.3 96.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Instrument :

MSVOA_L

ClientSampleId :

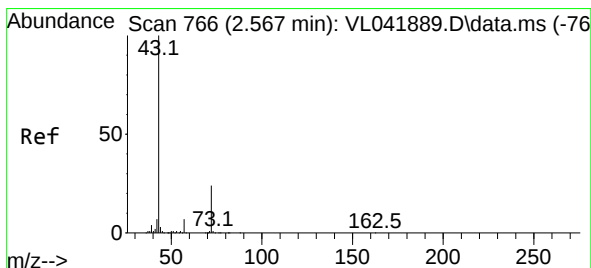
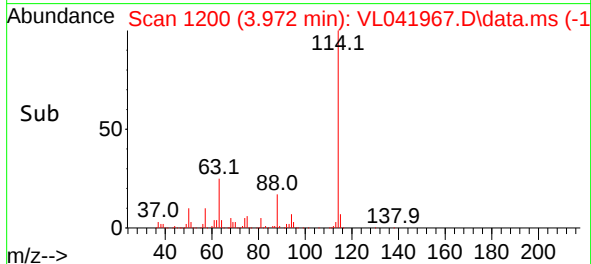
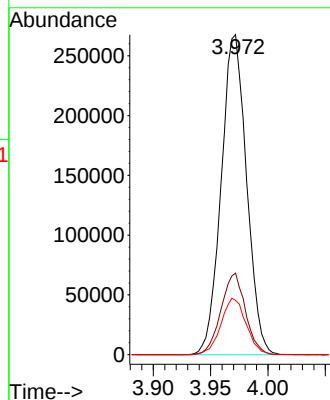
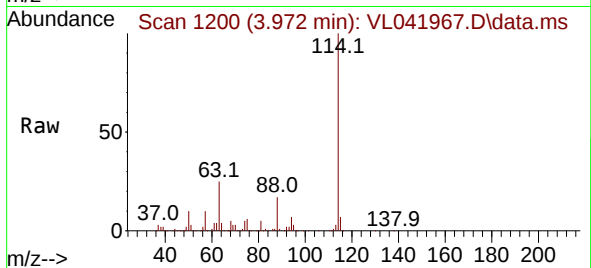
IA1

Tgt Ion:	114	Resp:	41183
Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.8	29.6
88	17.5	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#34

2-Butanone

Concen: 1.467 ppbv

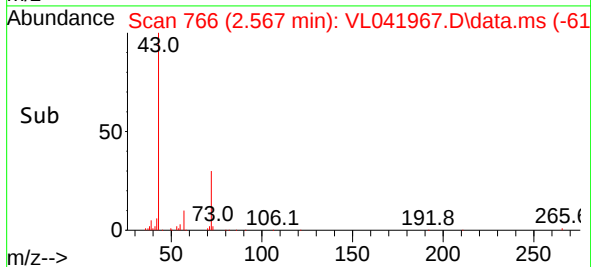
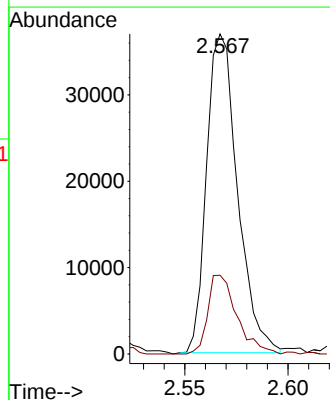
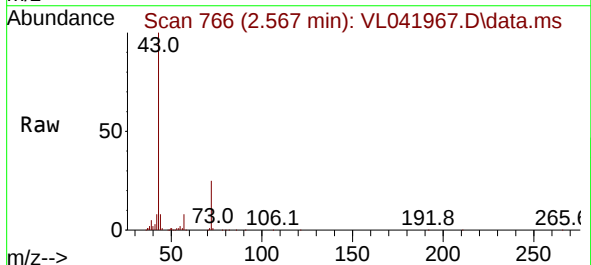
RT: 2.567 min Scan# 766

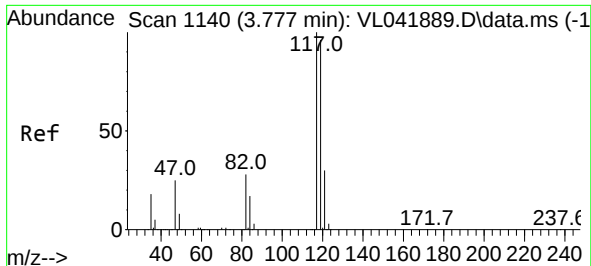
Delta R.T. 0.000 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

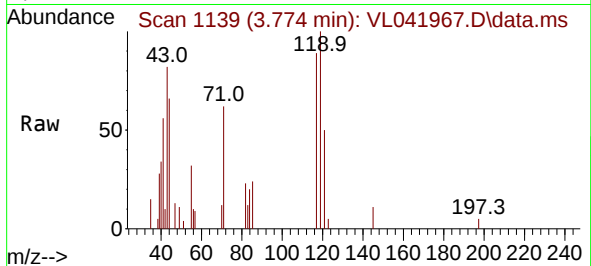
Tgt Ion:	43	Resp:	38426
Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.6	28.0





#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.774 min Scan# 1139
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

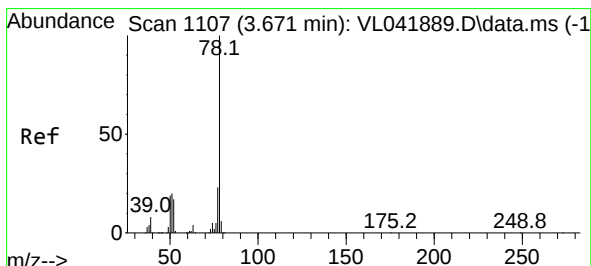
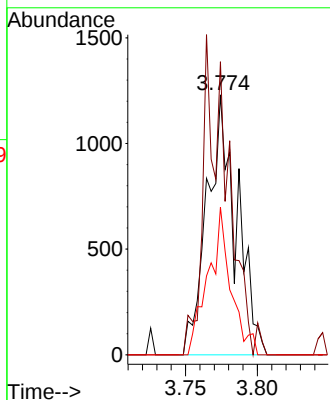
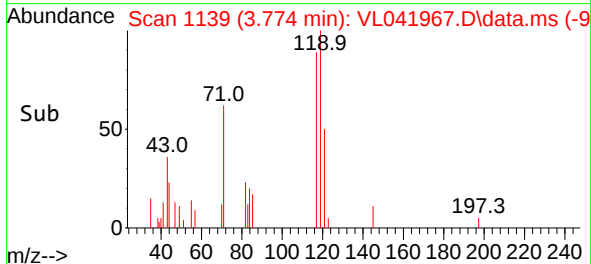
Instrument : MSVOA_L
ClientSampleId : IA1



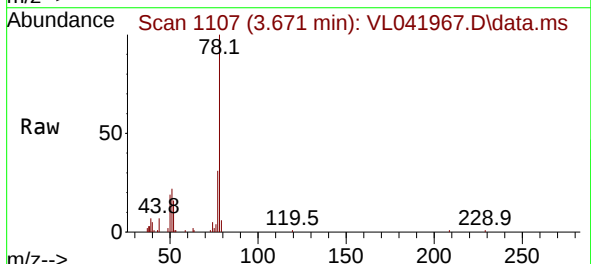
Tgt Ion: 117 Resp: 174
Ion Ratio Lower Upper
117 100
119 112.8 76.9 115.3
121 56.8 23.8 35.6

Manual Integrations
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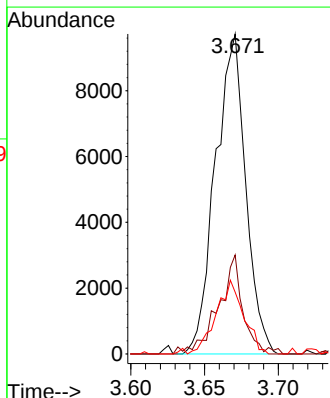
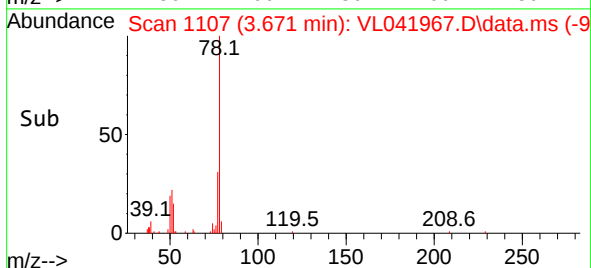
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

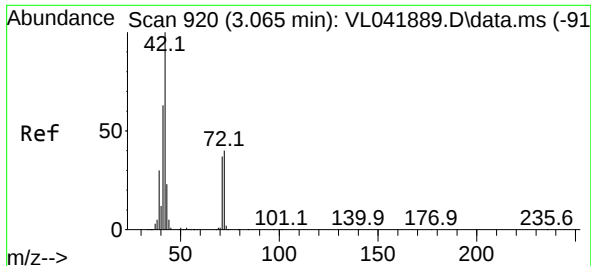


#36
Benzene
Concen: 0.368 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



Tgt Ion: 78 Resp: 13894
Ion Ratio Lower Upper
78 100
77 29.2 18.1 27.1#
50 19.3 15.2 22.8





#41

Tetrahydrofuran

Concen: 0.605 ppbv

RT: 3.075 min Scan# 91

Delta R.T. 0.010 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Instrument :

MSVOA_L

ClientSampleId :

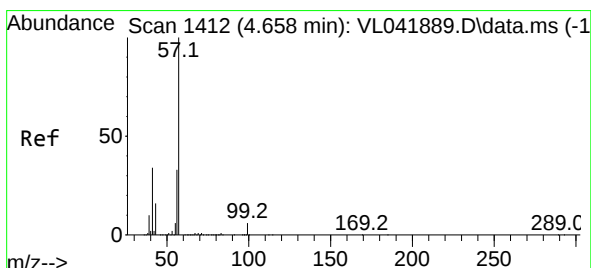
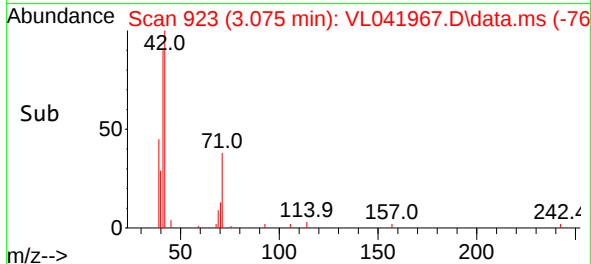
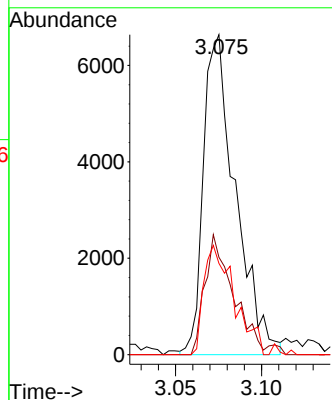
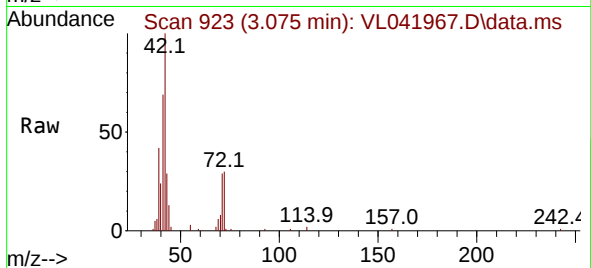
IA1

Tgt Ion: 42	Resp: 8618
Ion Ratio	Lower Upper
42 100	
72 34.4	32.3 48.5
71 33.3	29.9 44.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#44

2,2,4-Trimethylpentane

Concen: 0.321 ppbv m

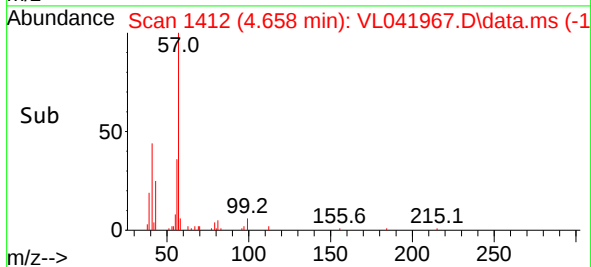
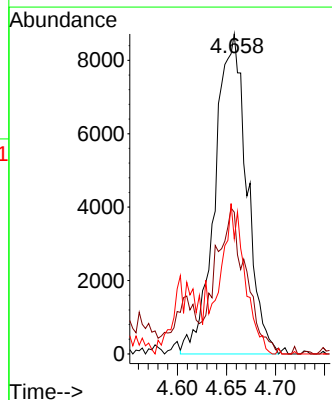
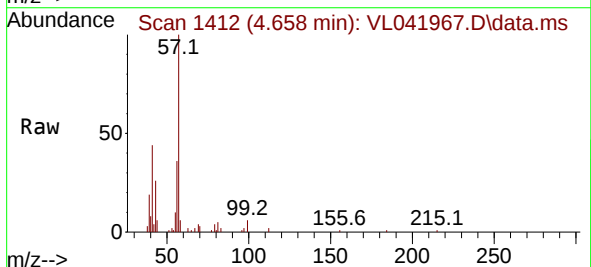
RT: 4.658 min Scan# 1412

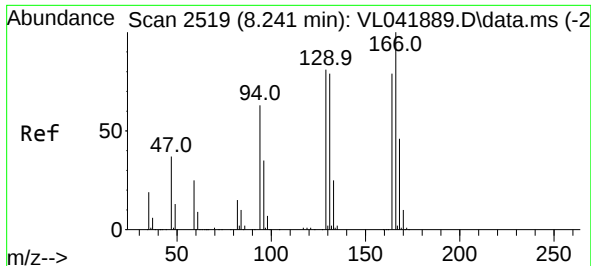
Delta R.T. 0.000 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

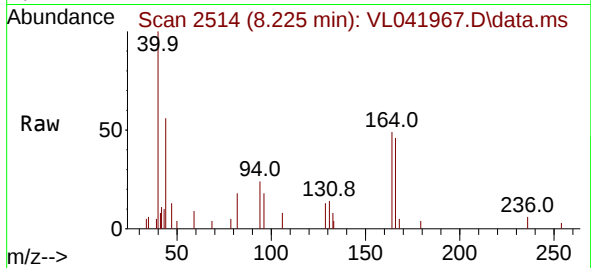
Tgt Ion: 57	Resp: 19641
Ion Ratio	Lower Upper
57 100	
41 56.5	26.6 40.0#
56 40.5	25.4 38.2#





#52
Tetrachloroethene
Concen: 0.080 ppbv m
RT: 8.225 min Scan# 2104
Delta R.T. -0.016 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

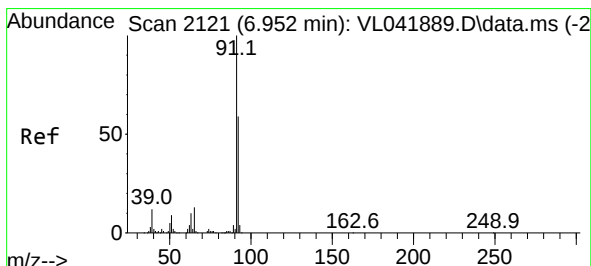
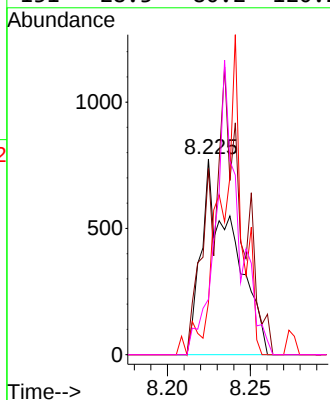
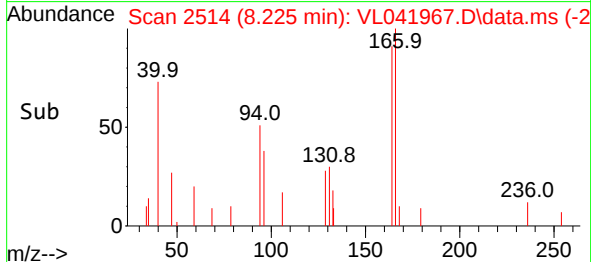
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 1044
Ion Ratio Lower Upper
164 100
166 95.1 100.8 151.2
129 26.5 82.0 123.0
131 28.3 80.2 120.2

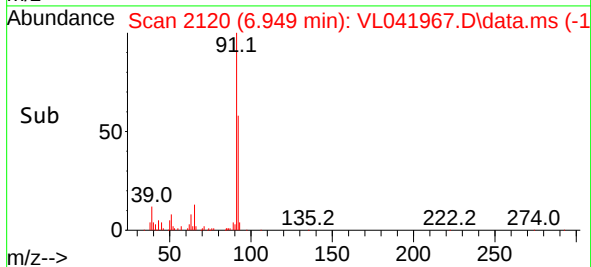
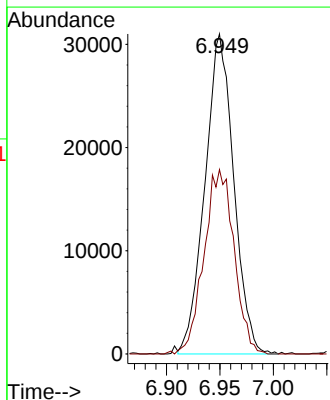
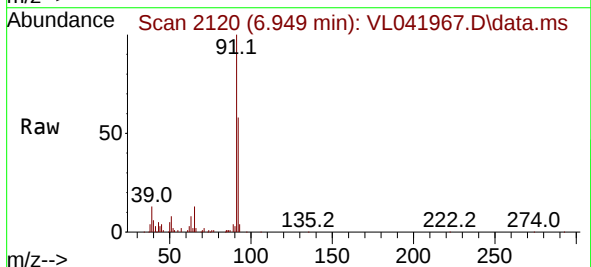
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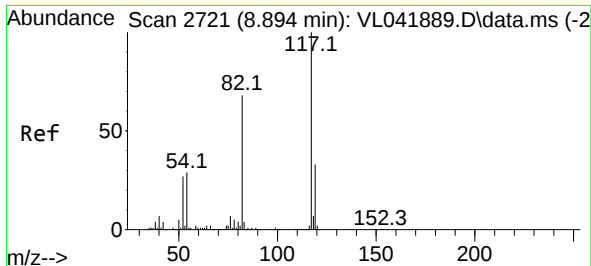
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#53
Toluene
Concen: 1.415 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

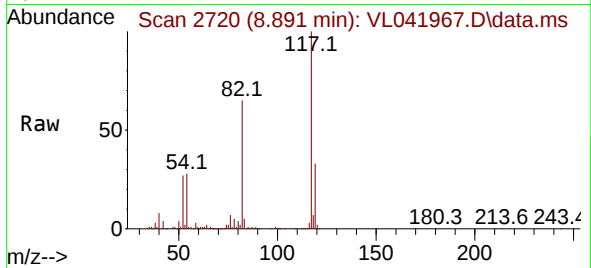
Tgt Ion: 91 Resp: 58221
Ion Ratio Lower Upper
91 100
92 60.1 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2721
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

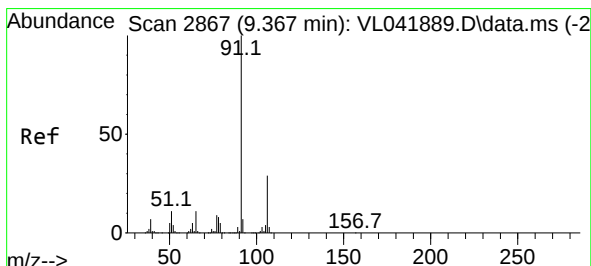
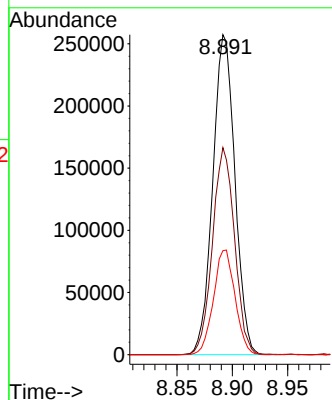
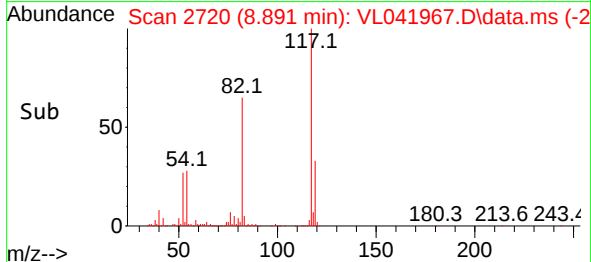
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 35872
Ion Ratio Lower Upper
117 100
82 64.5 54.2 81.4
119 32.0 25.0 37.6

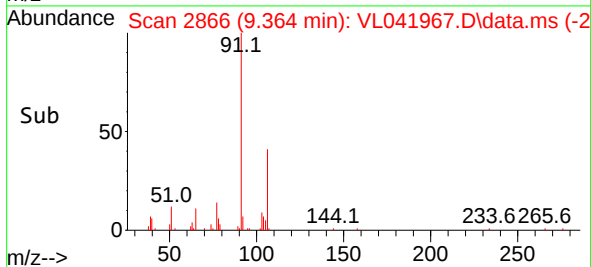
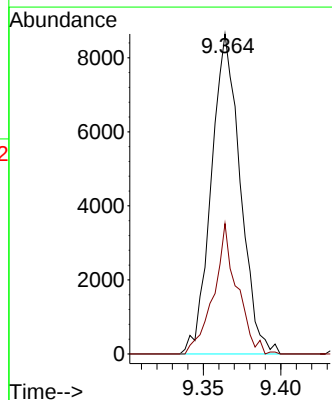
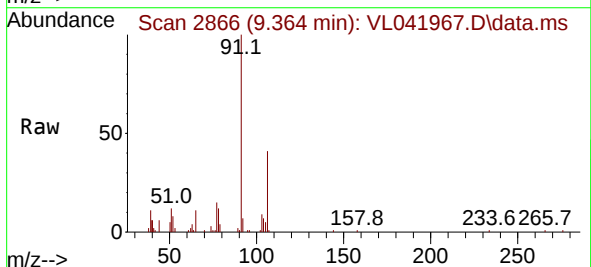
Manual Integrations
APPROVED

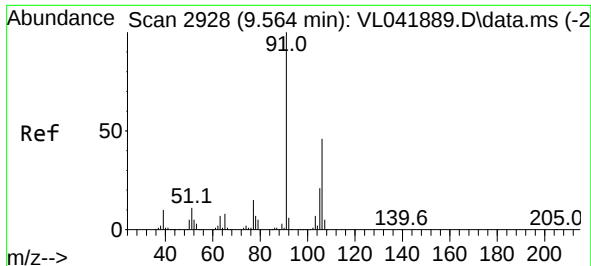
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#58
Ethyl Benzene
Concen: 0.201 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

Tgt Ion: 91 Resp: 11254
Ion Ratio Lower Upper
91 100
106 40.7 23.1 34.7#





#59

m/p-Xylene

Concen: 1.051 ppbv

RT: 9.539 min Scan# 2928

Delta R.T. -0.026 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 4724

Ion Ratio Lower Upper

91 100

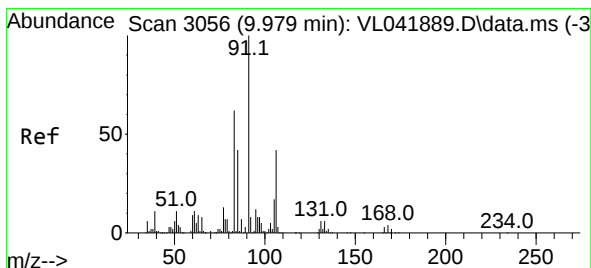
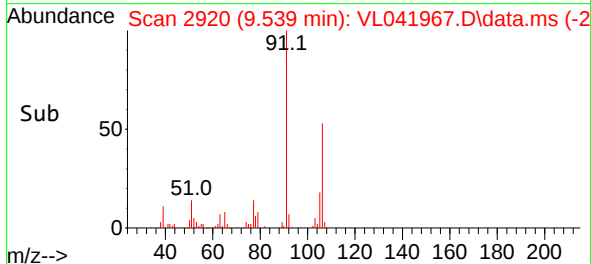
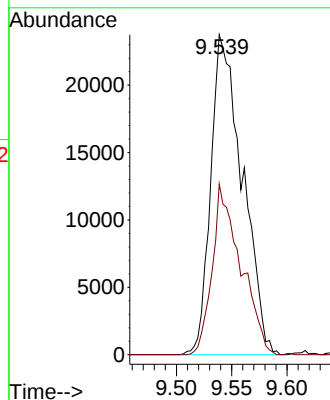
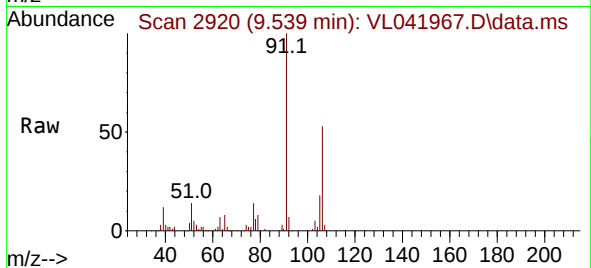
106 47.9 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#60

o-Xylene

Concen: 0.412 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. -0.006 min

Lab File: VL041967.D

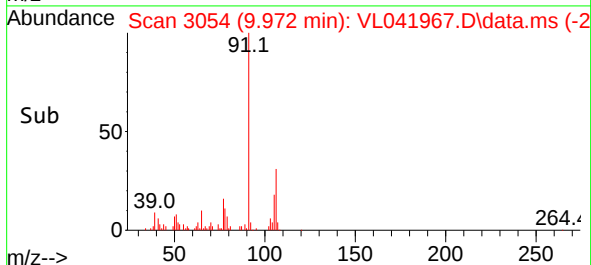
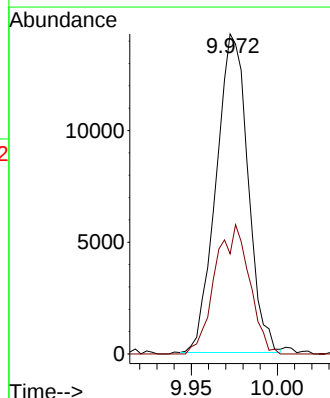
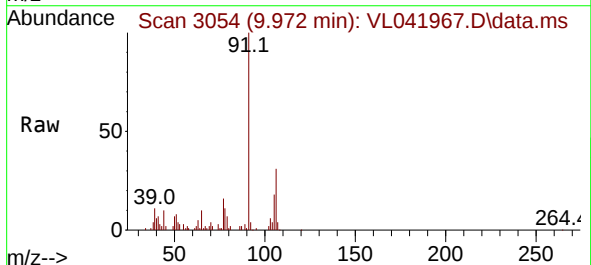
Acq: 03 Feb 2025 16:35

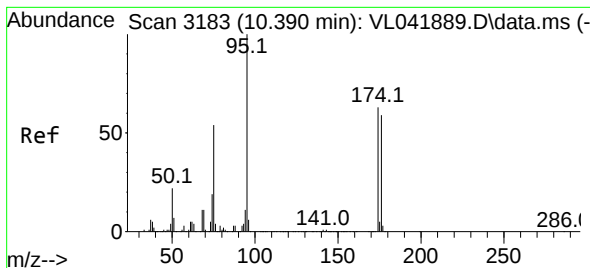
Tgt Ion: 91 Resp: 18366

Ion Ratio Lower Upper

91 100

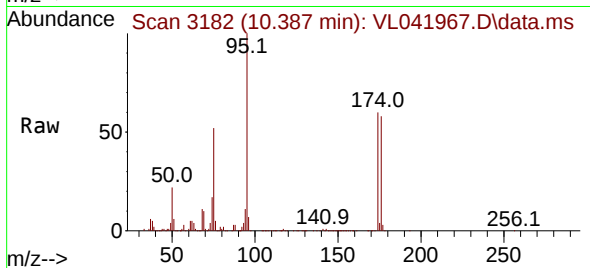
106 43.7 21.3 63.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.952 ppbv
RT: 10.387 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

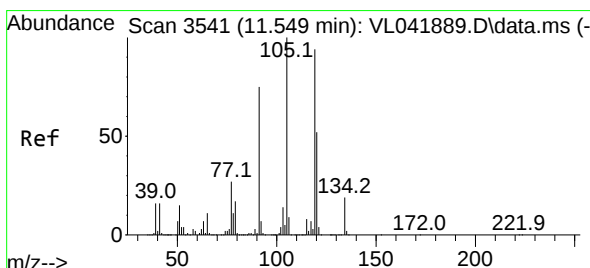
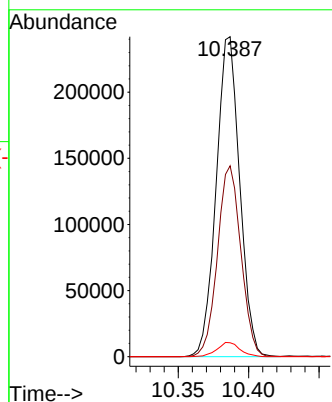
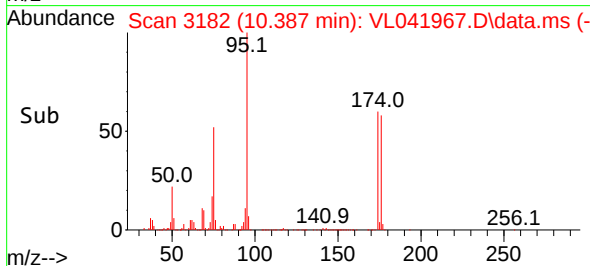
Instrument :
MSVOA_L
ClientSampleId :
IA1



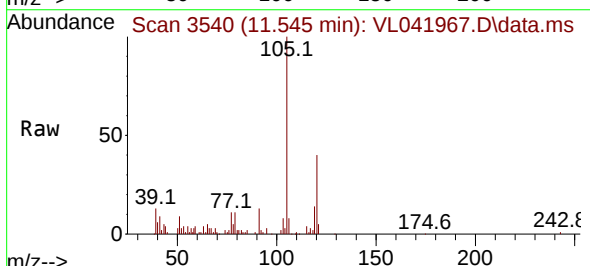
Tgt Ion: 95 Resp: 281200
Ion Ratio Lower Upper
95 100
174 59.5 49.0 73.4
175 4.4 3.8 5.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.359 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



Tgt Ion:105 Resp: 18298
Ion Ratio Lower Upper
105 100
120 40.3 41.4 62.2#
91 13.5 60.2 90.2#
77 11.5 22.0 33.0#

