

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041851.D
 Acq On : 07 Jan 2025 19:05
 Operator : SY/MD
 Sample : Q1031-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 03:57:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	81088	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	178085	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	183102	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	164947	10.518	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.200%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.502	85	3107	0.234	ppbv	98
3) Chlorodifluoromethane	1.479	51	2826	0.222	ppbv	93
4) Chloromethane	1.534	50	1167	0.213	ppbv #	59
9) Propene	1.489	41	19341m	4.370	ppbv	
10) Heptane	4.997	43	5065	0.463	ppbv	98
11) Trichlorofluoromethane	1.881	101	1951	0.144	ppbv #	79
13) Ethanol	1.725	45	3184	5.476	ppbv #	38
15) Acetone	1.838	43	54741	3.667	ppbv	97
19) Isopropyl Alcohol	1.890	45	2170	0.310	ppbv #	1
20) Methylene Chloride	2.068	84	1866	0.437	ppbv #	77
26) Hexane	2.835	57	29745	3.423	ppbv #	29
27) Carbon Disulfide	2.156	76	4672	0.567	ppbv #	4
29) Chloroform	2.855	83	42132	2.610	ppbv	100
30) Cyclohexane	3.868	84	710m	0.108	ppbv	
34) 2-Butanone	2.567	43	12723	0.907	ppbv	100
35) Carbon Tetrachloride	3.780	117	1277m	0.095	ppbv	
36) Benzene	3.670	78	3143	0.185	ppbv	96
41) Tetrahydrofuran	3.078	42	846m	0.128	ppbv	
52) Tetrachloroethene	8.234	164	7190	1.425	ppbv #	84
53) Toluene	6.952	91	15874m	1.048	ppbv	
58) Ethyl Benzene	9.360	91	3296m	0.132	ppbv	
59) m/p-Xylene	9.542	91	6686m	0.304	ppbv	
60) o-Xylene	9.969	91	5929m	0.277	ppbv	
73) 1,3,5-Trimethylbenzene	11.212	105	4304	0.190	ppbv #	83
74) 1,2,4-Trimethylbenzene	11.545	105	6914	0.263	ppbv #	66

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

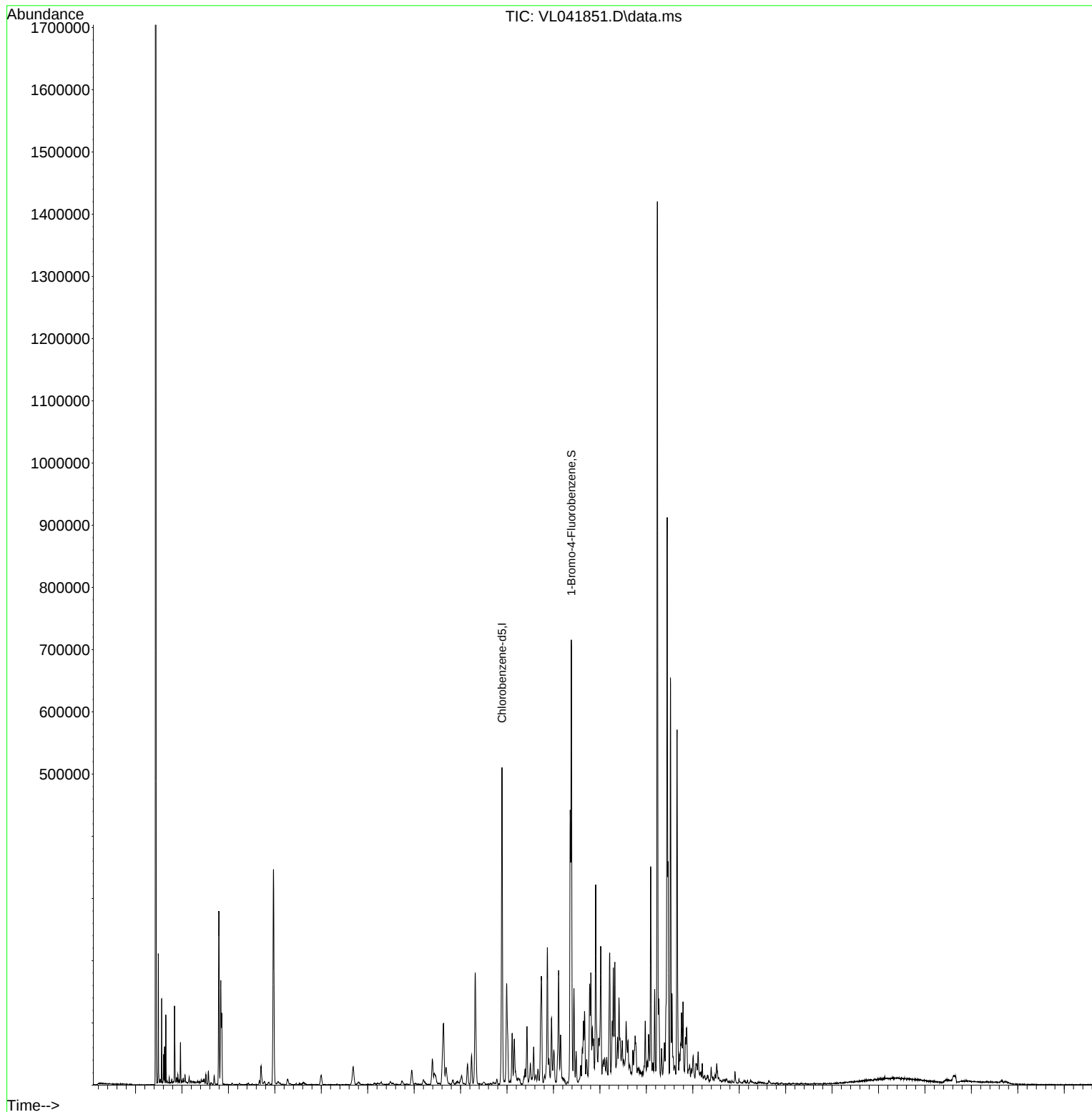
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041851.D
Acq On : 07 Jan 2025 19:05
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Sample : Q1031-01 2X
Misc : 400mL/MSVOA_L
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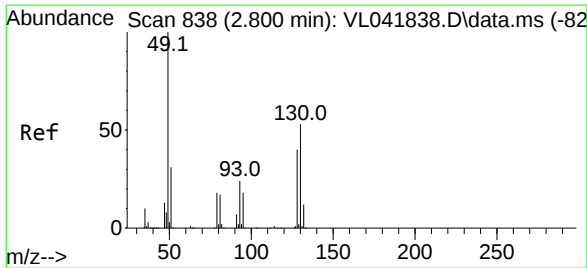
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Quant Time: Jan 08 03:57:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration





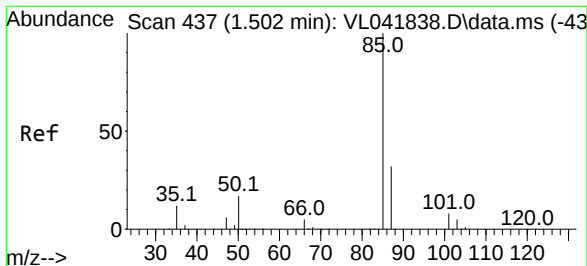
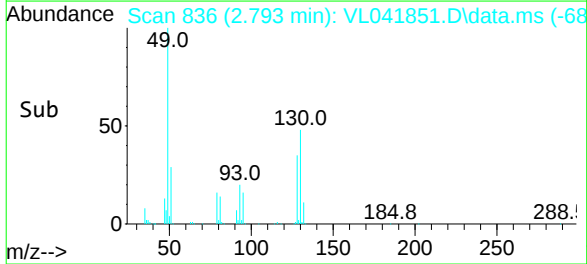
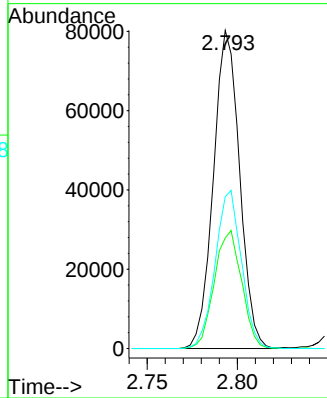
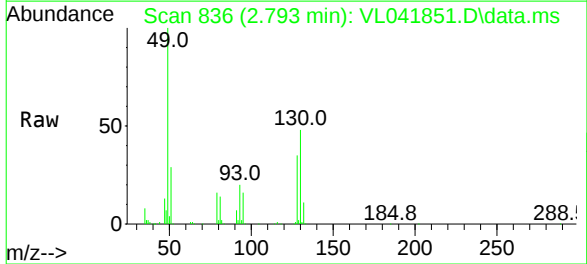
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 838
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 81088
Ion Ratio Lower Upper
49 100
128 38.7 19.7 59.1
130 49.7 26.4 79.2

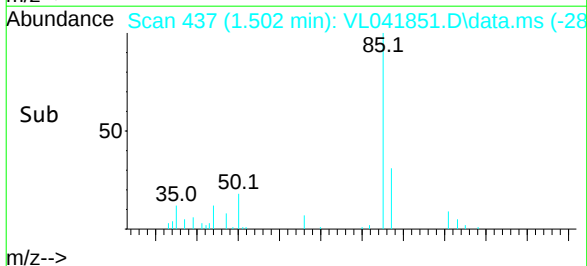
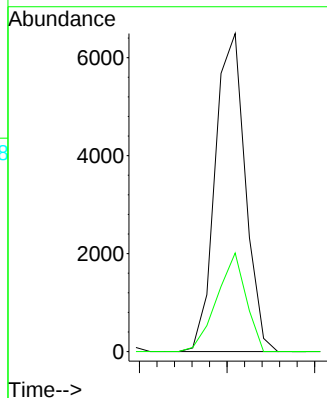
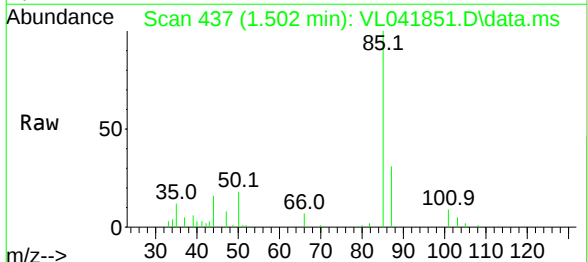
Manual Integrations
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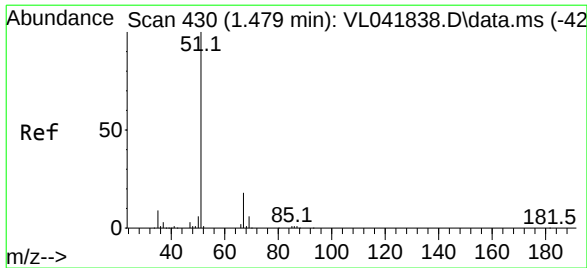
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#2
Dichlorodifluoromethane
Concen: 0.234 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 85 Resp: 3107
Ion Ratio Lower Upper
85 100
87 31.0 25.6 38.4





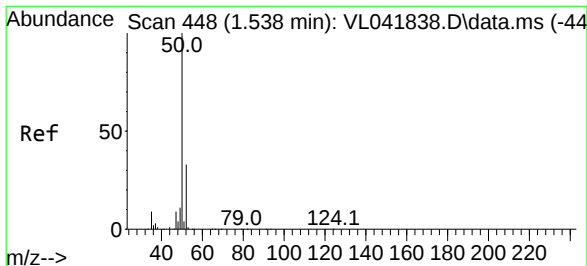
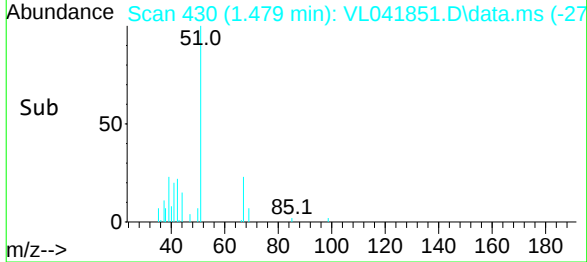
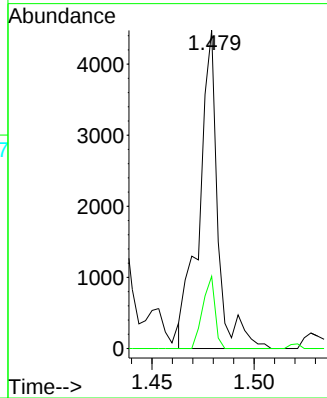
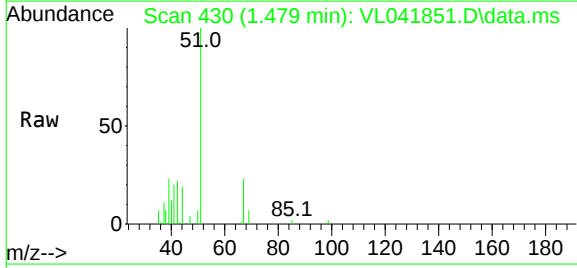
#3
Chlorodifluoromethane
Concen: 0.222 ppbv
RT: 1.479 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 2826
Ion Ratio Lower Upper
51 100
67 15.0 14.6 22.0

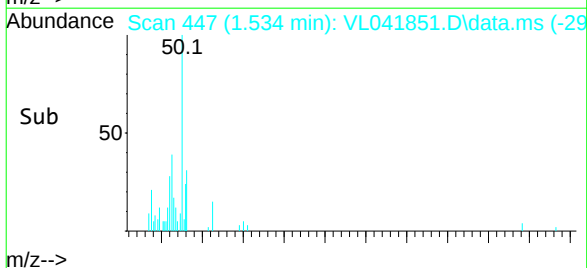
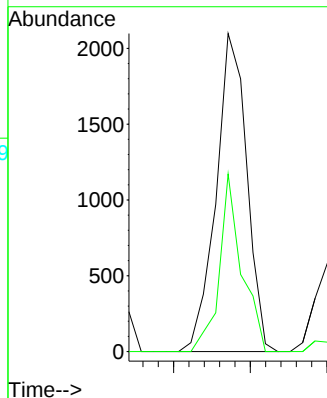
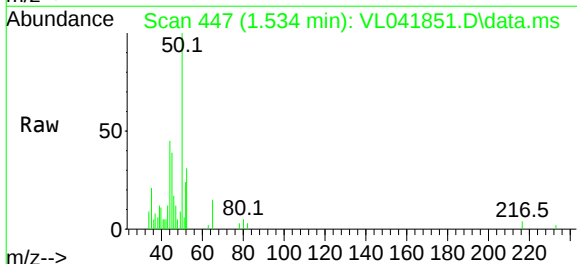
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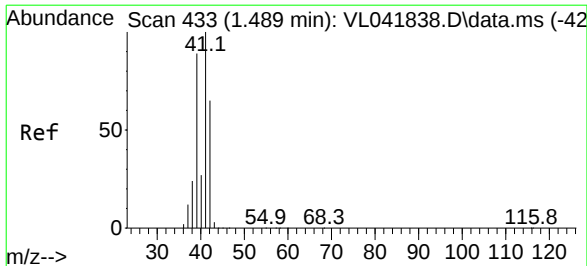
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#4
Chloromethane
Concen: 0.213 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

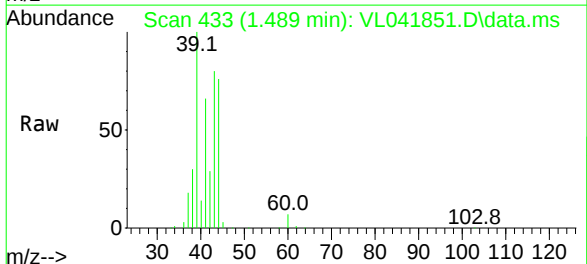
Tgt Ion: 50 Resp: 1167
Ion Ratio Lower Upper
50 100
52 55.9 26.1 39.1#





#9
 Propene
 Concen: 4.370 ppbv m
 RT: 1.489 min Scan# 43
 Delta R.T. -0.000 min
 Lab File: VL041851.D
 Acq: 07 Jan 2025 19:05

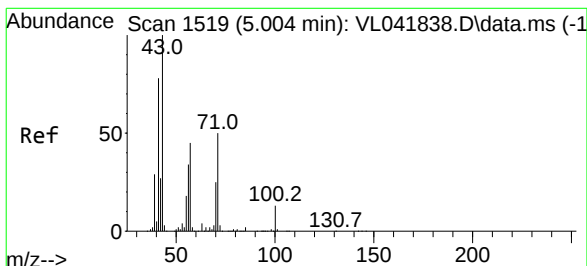
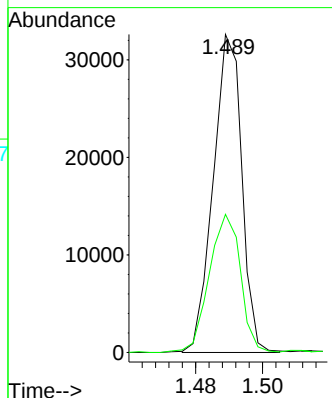
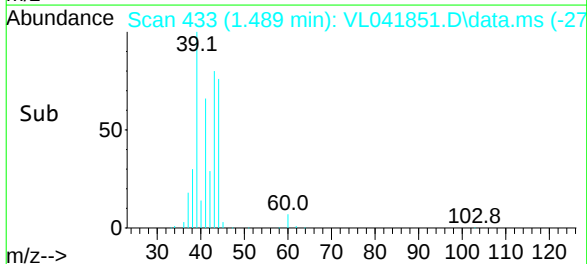
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 41 Resp: 19341
 Ion Ratio Lower Upper
 41 100
 42 56.1 53.9 80.9

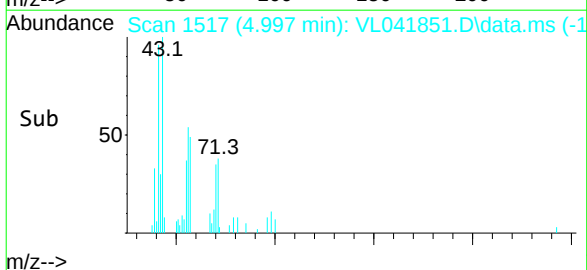
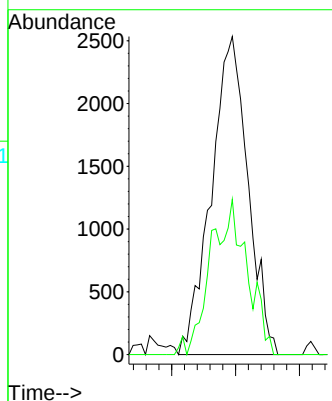
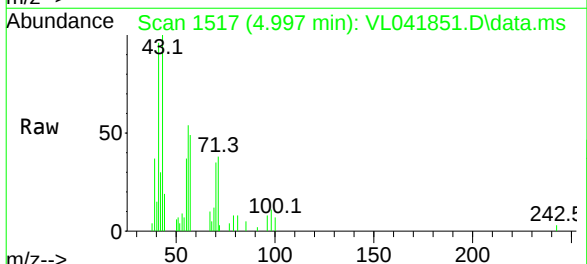
Manual Integrations
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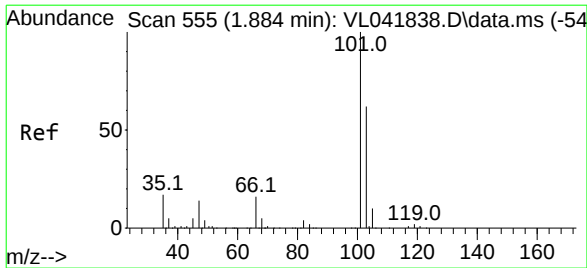
Reviewed By :Semsettin Yesilyurt 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025



#10
 Heptane
 Concen: 0.463 ppbv
 RT: 4.997 min Scan# 1517
 Delta R.T. -0.007 min
 Lab File: VL041851.D
 Acq: 07 Jan 2025 19:05

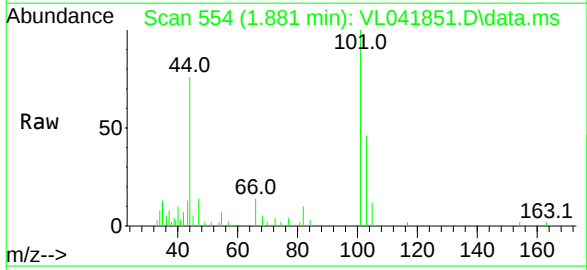
Tgt Ion: 43 Resp: 5065
 Ion Ratio Lower Upper
 43 100
 57 48.5 37.8 56.6





#11
Trichlorofluoromethane
Concen: 0.144 ppbv
RT: 1.881 min Scan# 555
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

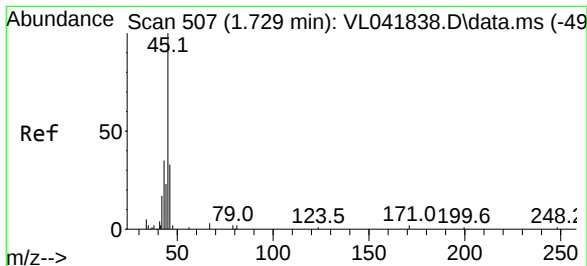
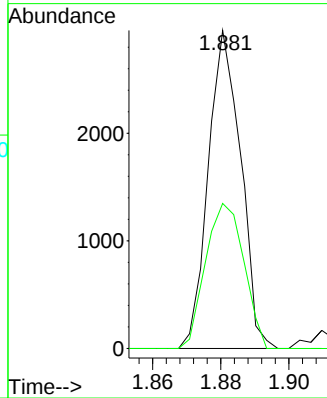
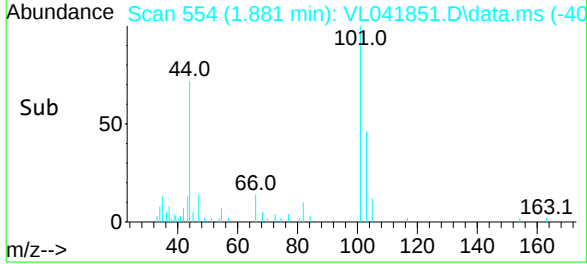
Instrument :
MSVOA_L
ClientSampleId :
SV1



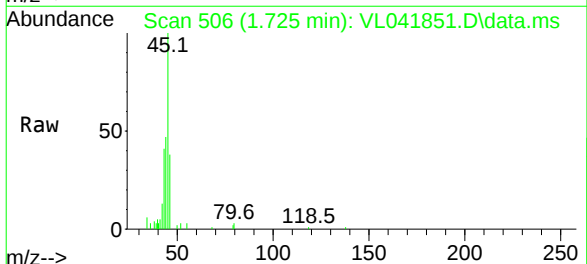
Tgt Ion: 101 Resp: 1951
Ion Ratio Lower Upper
101 100
103 45.6 49.4 74.0#

Manual Integrations
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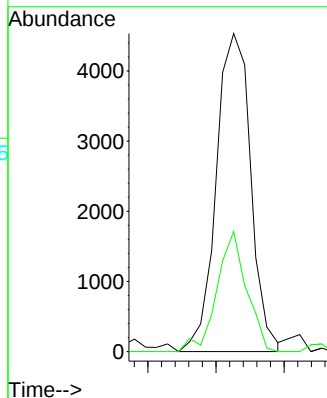
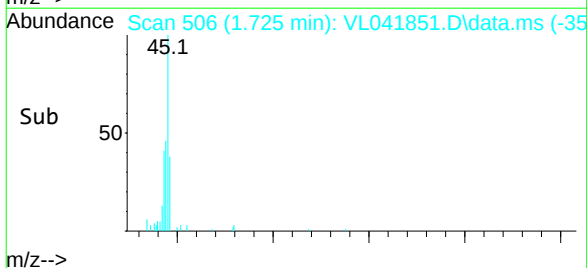
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

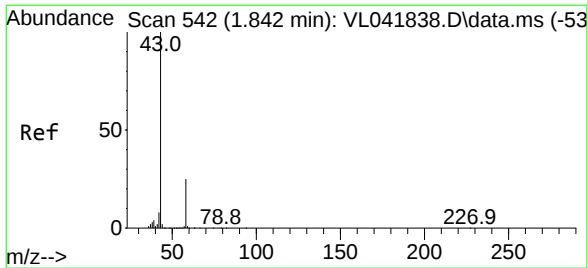


#13
Ethanol
Concen: 5.476 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05



Tgt Ion: 45 Resp: 3184
Ion Ratio Lower Upper
45 100
46 0.0 14.6 58.2#





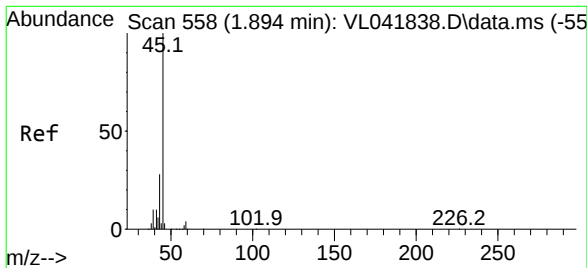
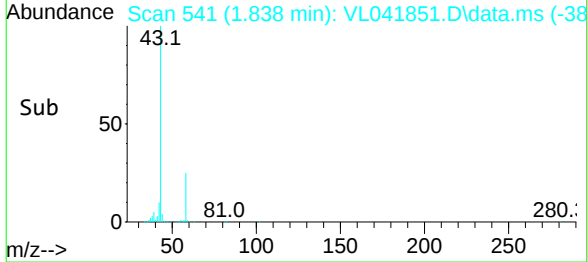
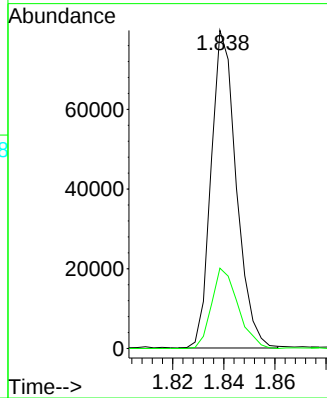
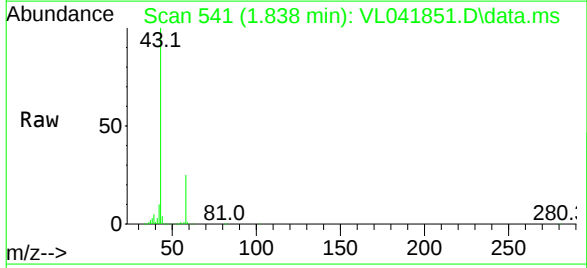
#15
Acetone
Concen: 3.667 ppbv
RT: 1.838 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 54741
Ion Ratio Lower Upper
43 100
58 27.0 20.2 30.4

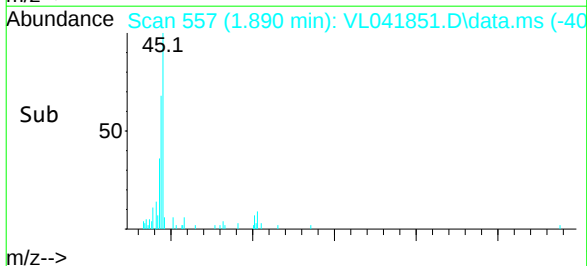
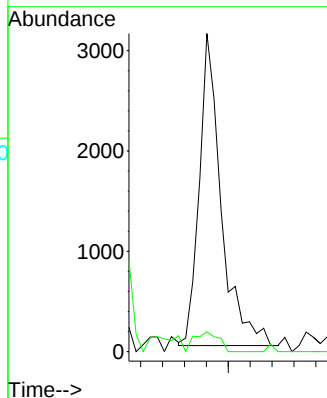
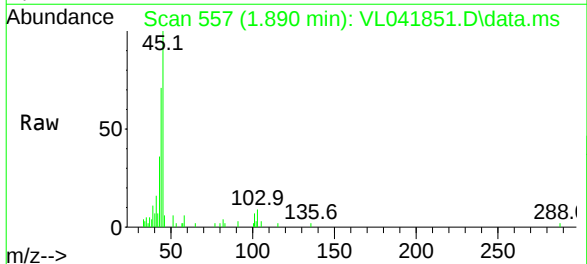
Manual Integrations
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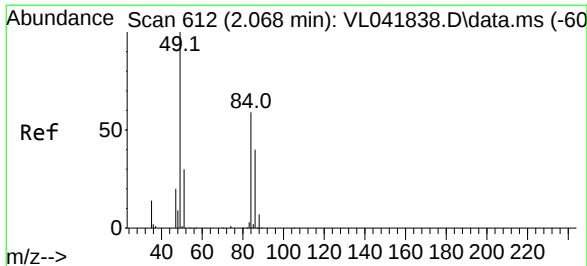
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#19
Isopropyl Alcohol
Concen: 0.310 ppbv
RT: 1.890 min Scan# 557
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 45 Resp: 2170
Ion Ratio Lower Upper
45 100
58 680.9 2.1 3.1#





#20

Methylene Chloride

Concen: 0.437 ppbv

RT: 2.068 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL041851.D

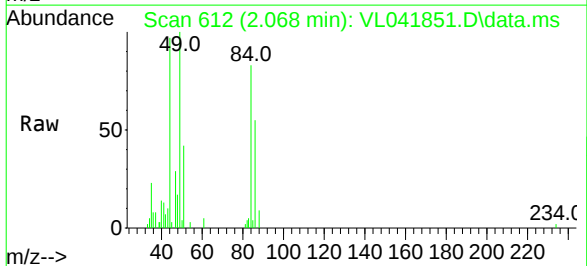
Acq: 07 Jan 2025 19:05

Instrument :

MSVOA_L

ClientSampleId :

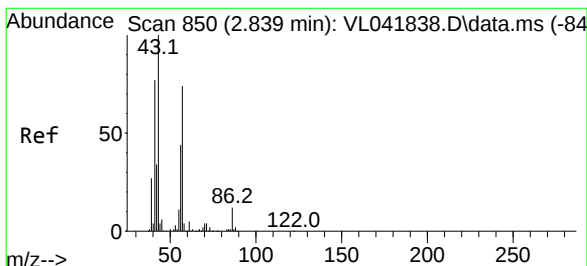
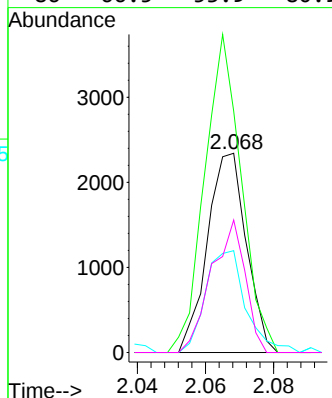
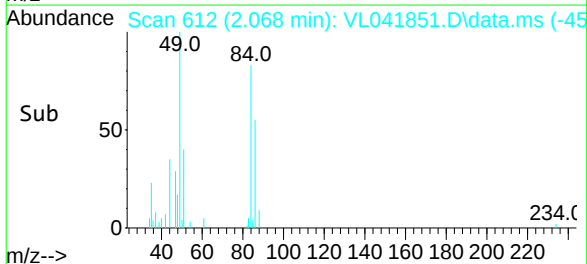
SV1



Tgt Ion:	84	Resp:	1866
Ion	Ratio	Lower	Upper
84	100		
49	121.1	137.8	206.8#
51	51.1	43.9	65.9
86	66.5	53.9	80.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#26

Hexane

Concen: 3.423 ppbv

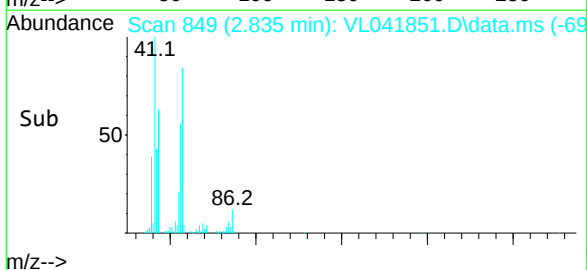
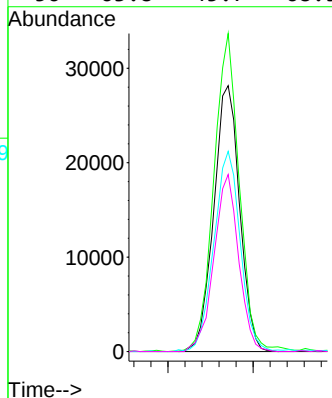
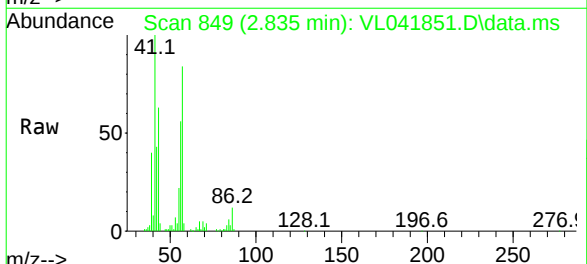
RT: 2.835 min Scan# 849

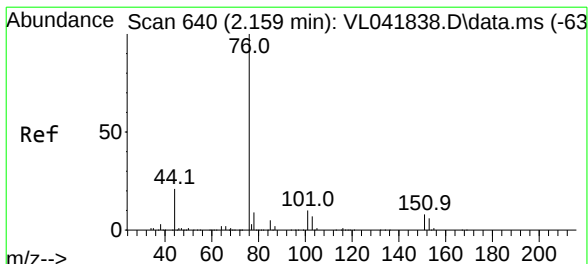
Delta R.T. -0.003 min

Lab File: VL041851.D

Acq: 07 Jan 2025 19:05

Tgt Ion:	57	Resp:	29745
Ion	Ratio	Lower	Upper
57	100		
41	118.2	84.0	126.0
43	77.6	218.4	327.6#
56	63.8	45.7	68.5





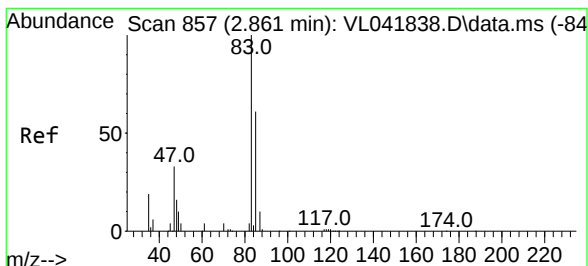
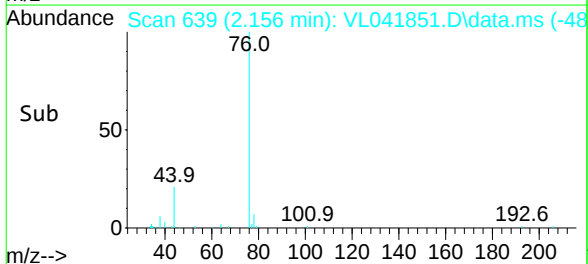
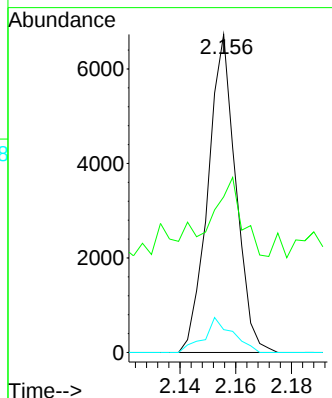
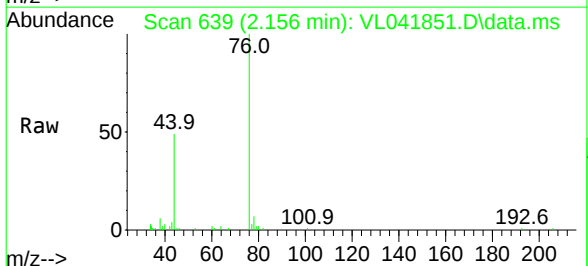
#27
Carbon Disulfide
Concen: 0.567 ppbv
RT: 2.156 min Scan# 63
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:	76	Resp:	4672
Ion	Ratio	Lower	Upper
76	100		
44	95.9	19.8	29.8
78	11.3	9.8	14.8

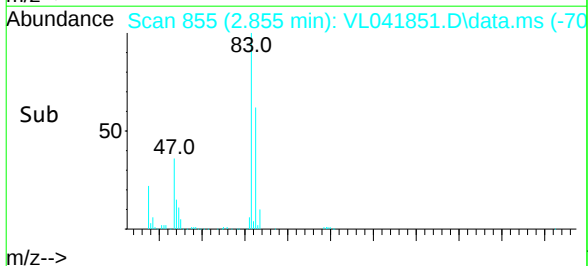
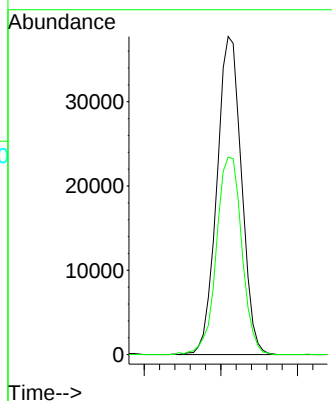
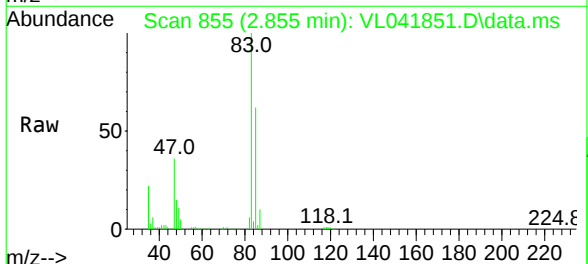
Manual Integrations
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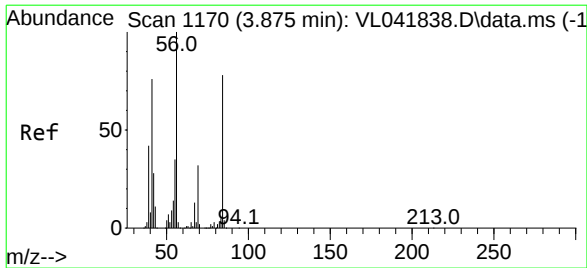
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#29
Chloroform
Concen: 2.610 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:	83	Resp:	42132
Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.6	74.4





#30

Cyclohexane

Concen: 0.108 ppbv m

RT: 3.868 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL041851.D

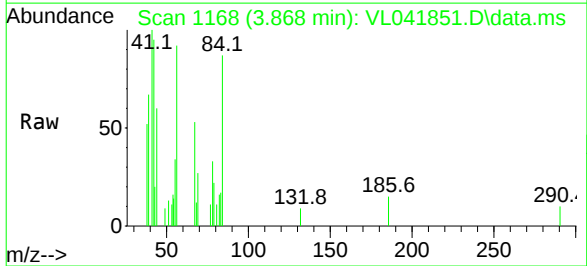
Acq: 07 Jan 2025 19:05

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion: 84 Resp: 710

Ion Ratio Lower Upper

84 100

56 148.3 105.0 157.6

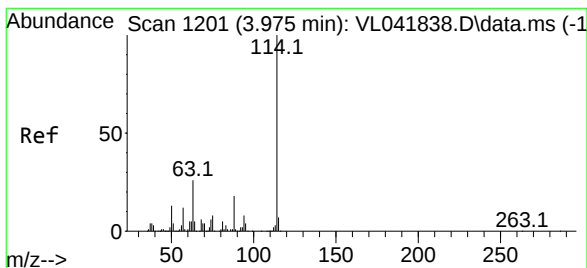
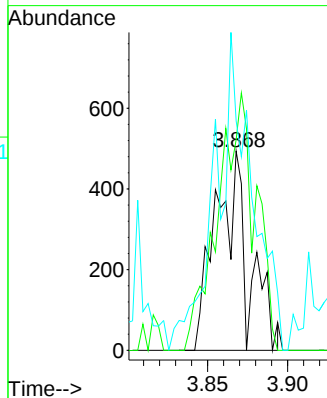
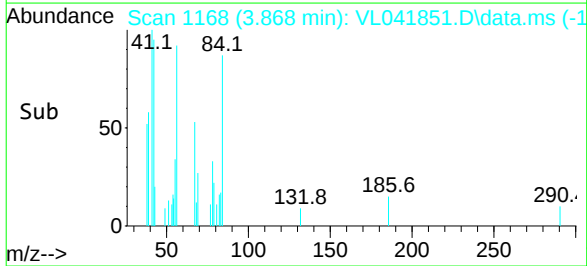
41 140.1 78.9 118.3#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/09/2025

Supervised By :Mahesh Dadoda 01/09/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.971 min Scan# 1200

Delta R.T. -0.003 min

Lab File: VL041851.D

Acq: 07 Jan 2025 19:05

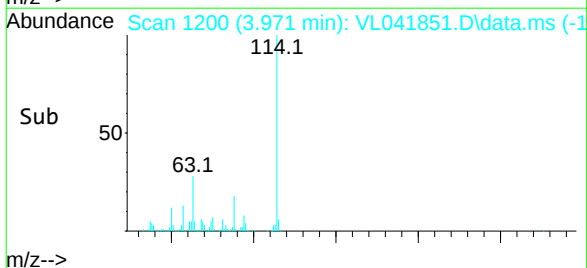
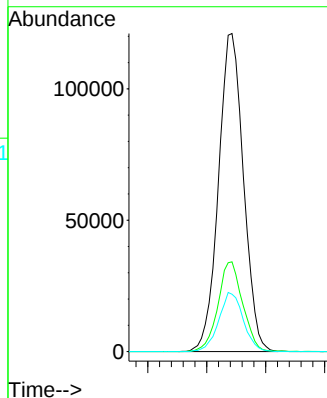
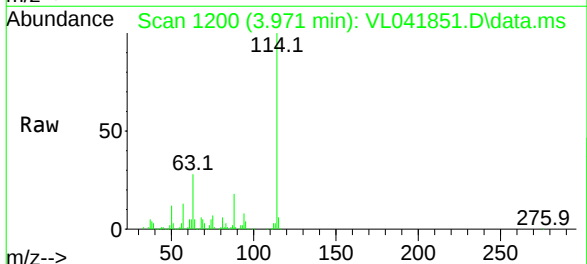
Tgt Ion:114 Resp: 178085

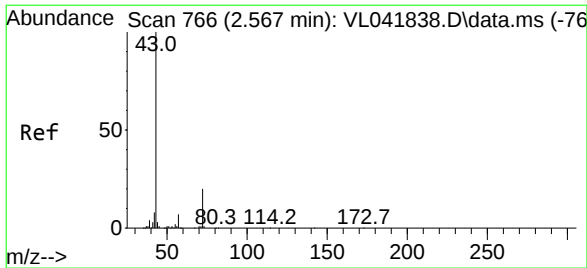
Ion Ratio Lower Upper

114 100

63 28.0 22.3 33.5

88 18.2 14.9 22.3





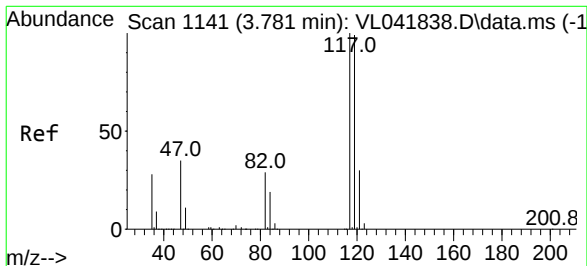
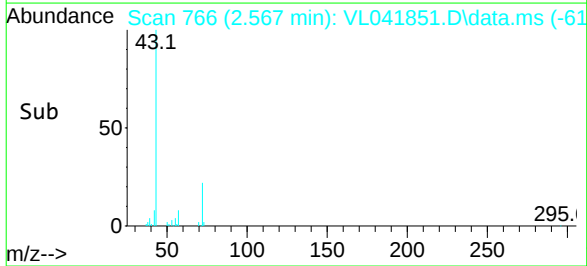
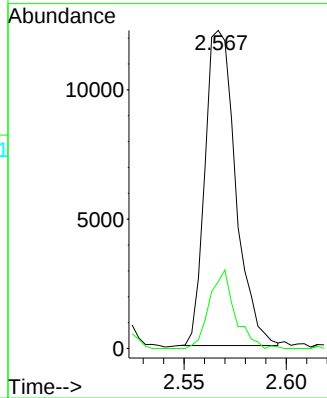
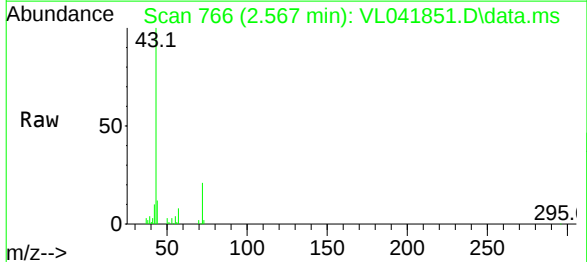
#34
2-Butanone
Concen: 0.907 ppbv
RT: 2.567 min Scan# 766
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Instrument : MSVOA_L
ClientSampleId : SV1

Tgt Ion: 43 Resp: 12723
Ion Ratio Lower Upper
43 100
72 20.8 16.6 25.0

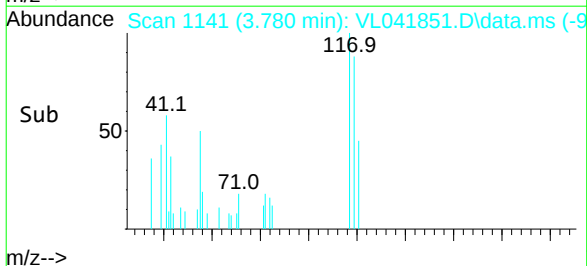
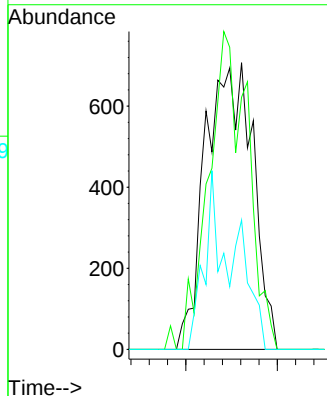
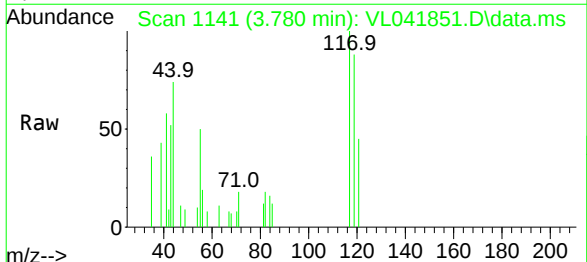
Manual Integrations
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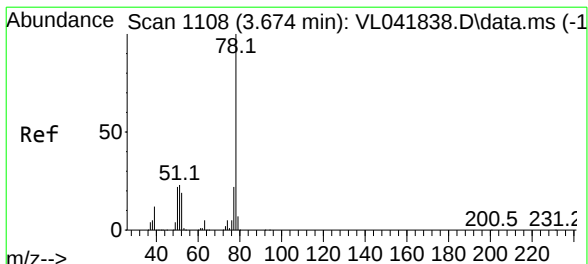
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#35
Carbon Tetrachloride
Concen: 0.095 ppbv m
RT: 3.780 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:117 Resp: 1277
Ion Ratio Lower Upper
117 100
119 88.0 79.1 118.7
121 45.1 24.2 36.2#



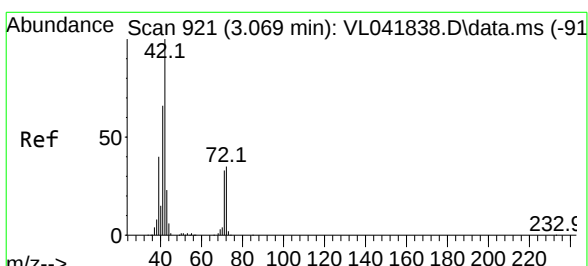
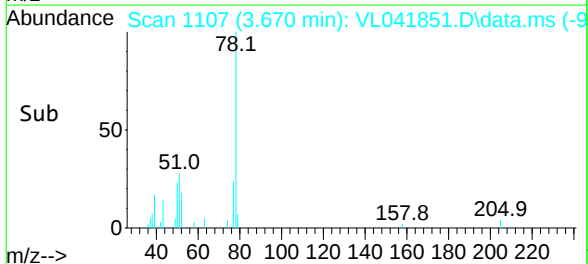
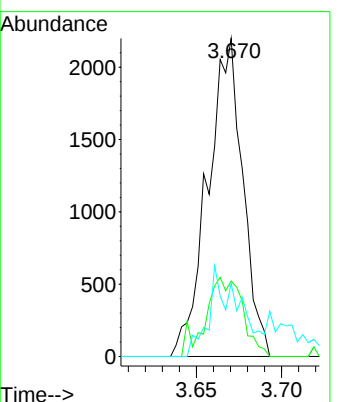
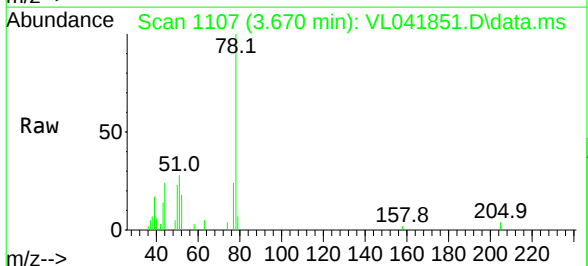


#36
Benzene
Concen: 0.185 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Instrument : MSVOA_L
ClientSampleId : SV1

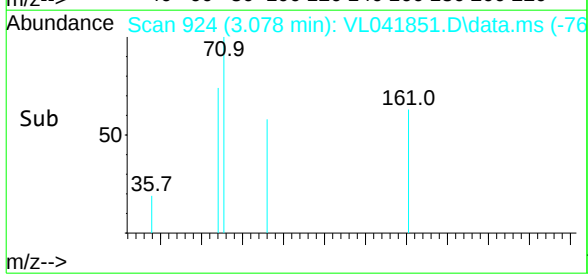
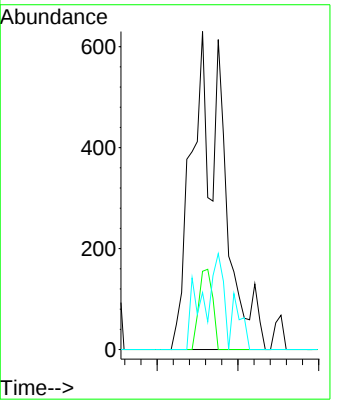
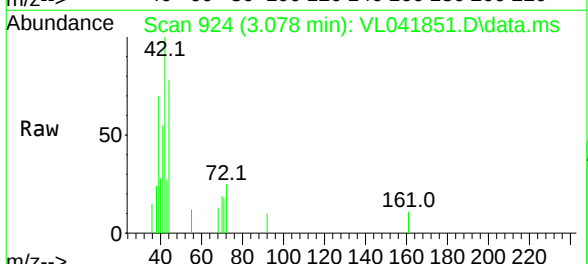
Tgt Ion: 78	Resp: 3143
Ion Ratio	Lower Upper
78 100	
77 23.7	17.4 26.0
50 23.0	17.3 25.9

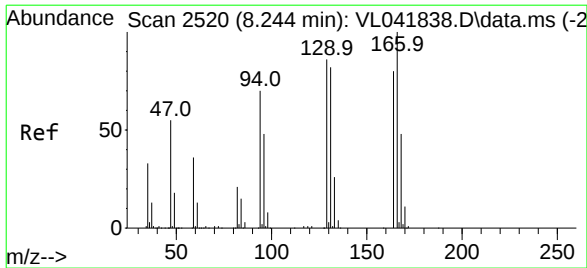
Manual Integrations
APPROVED
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#41
Tetrahydrofuran
Concen: 0.128 ppbv m
RT: 3.078 min Scan# 924
Delta R.T. 0.010 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 42	Resp: 846
Ion Ratio	Lower Upper
42 100	
72 11.1	27.9 41.9#
71 24.9	26.5 39.7#





#52

Tetrachloroethene

Concen: 1.425 ppbv

RT: 8.234 min Scan# 2517

Delta R.T. -0.010 min

Lab File: VL041851.D

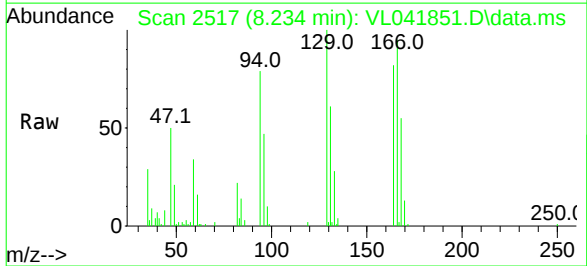
Acq: 07 Jan 2025 19:05

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion: 164 Resp: 7190

Ion Ratio Lower Upper

164 100

166 114.8 100.4 150.6

129 121.4 85.9 128.9

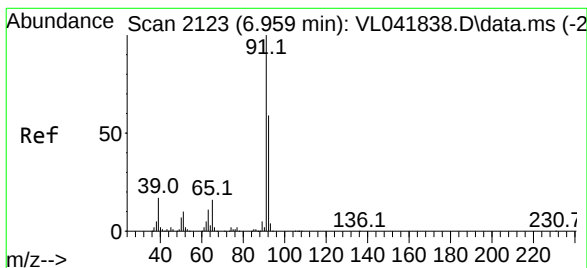
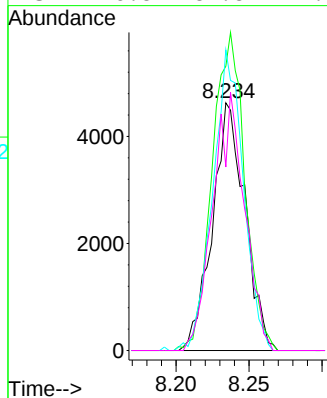
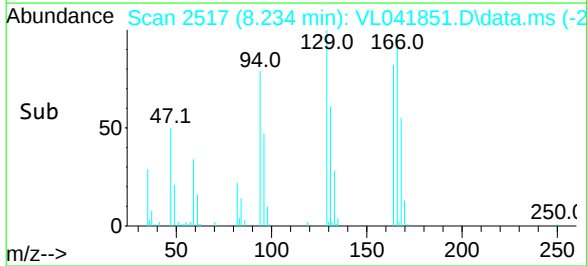
131 76.8 82.8 124.2#

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Reviewed By :Semsettin Yesilyurt 01/09/2025

Supervised By :Mahesh Dadoda 01/09/2025



#53

Toluene

Concen: 1.048 ppbv m

RT: 6.952 min Scan# 2121

Delta R.T. -0.007 min

Lab File: VL041851.D

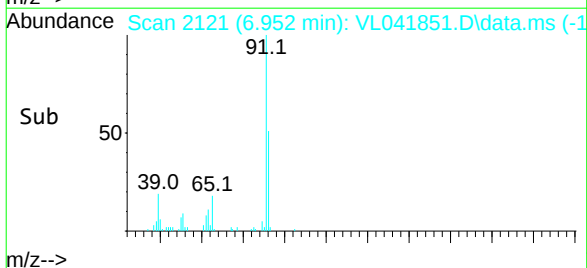
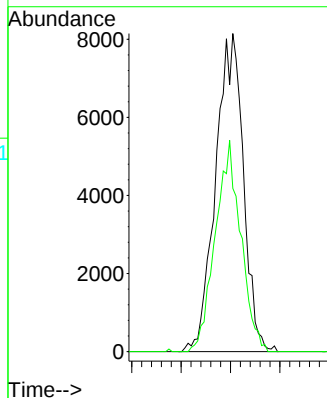
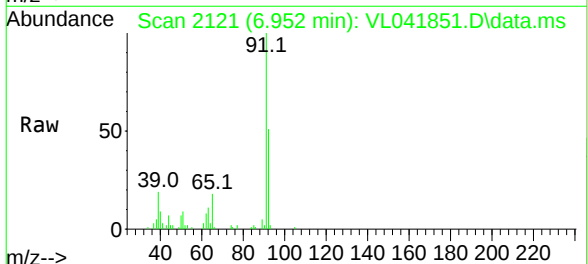
Acq: 07 Jan 2025 19:05

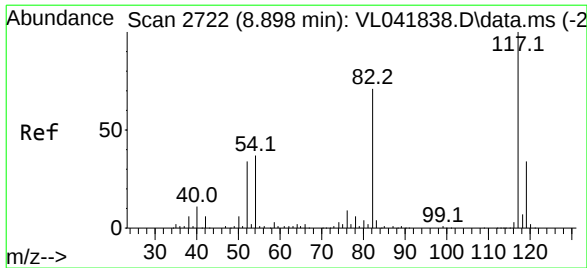
Tgt Ion: 91 Resp: 15874

Ion Ratio Lower Upper

91 100

92 60.9 47.8 71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 27

Delta R.T. -0.007 min

Lab File: VL041851.D

Acq: 07 Jan 2025 19:05

Instrument :

MSVOA_L

ClientSampleId :

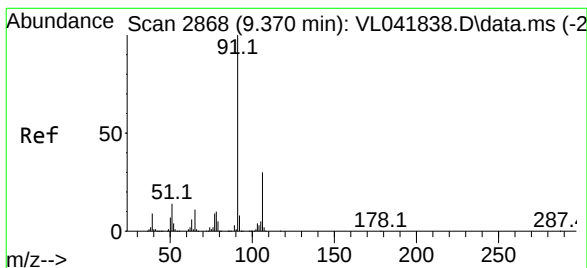
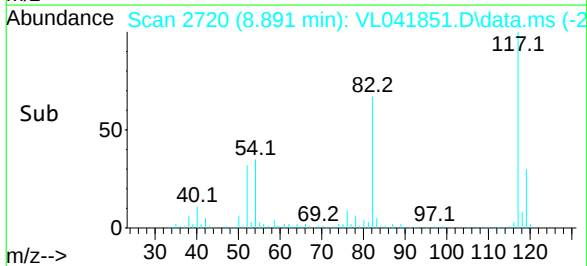
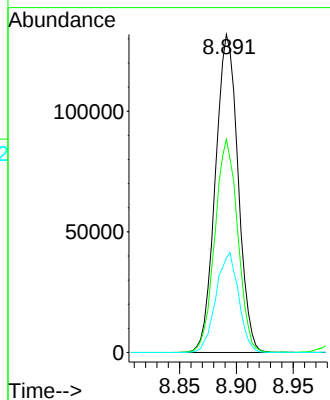
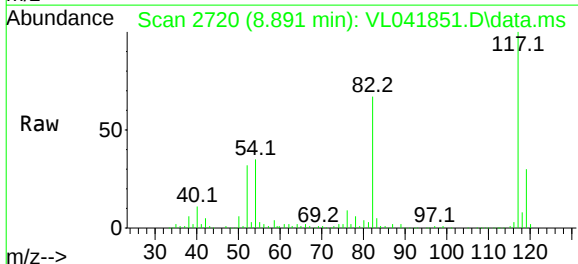
SV1

Tgt Ion:117 Resp: 183102
 Ion Ratio Lower Upper
 117 100
 82 67.6 59.1 88.7
 119 31.5 27.3 40.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025



#58

Ethyl Benzene

Concen: 0.132 ppbv m

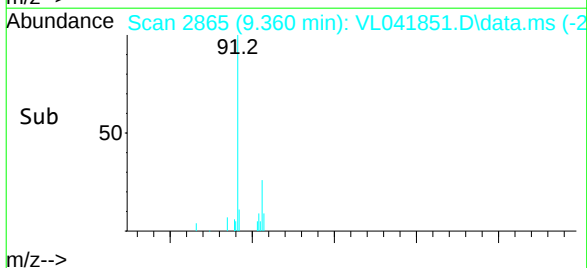
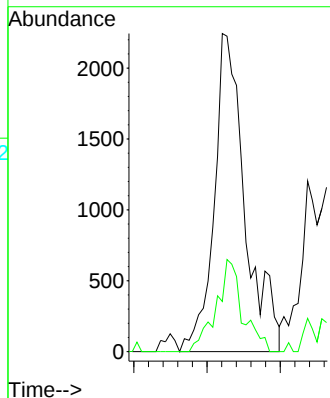
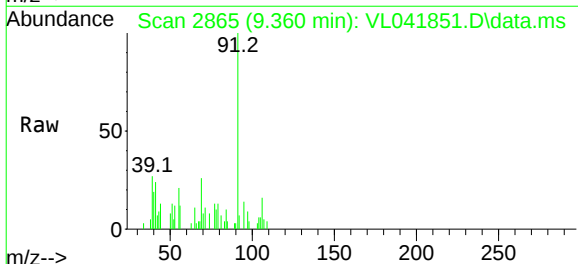
RT: 9.360 min Scan# 2865

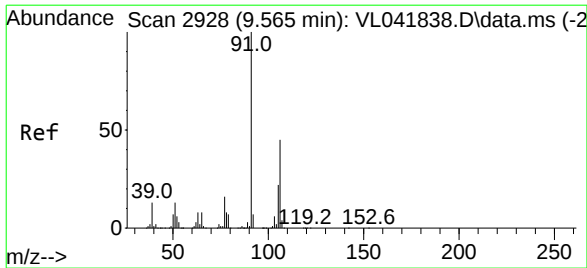
Delta R.T. -0.010 min

Lab File: VL041851.D

Acq: 07 Jan 2025 19:05

Tgt Ion: 91 Resp: 3296
 Ion Ratio Lower Upper
 91 100
 106 15.8 23.8 35.8#





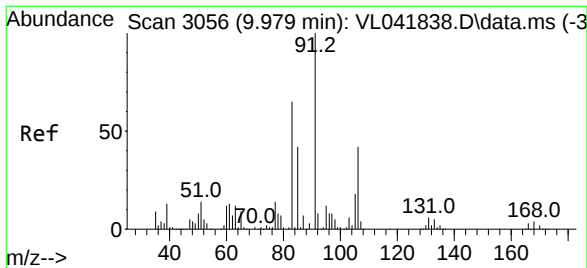
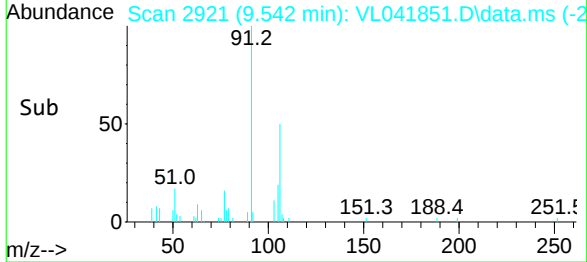
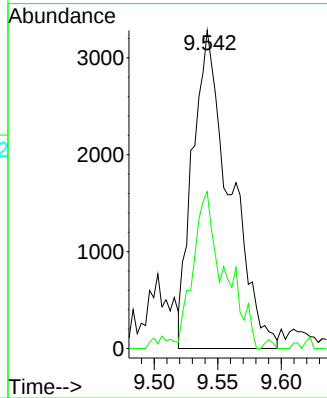
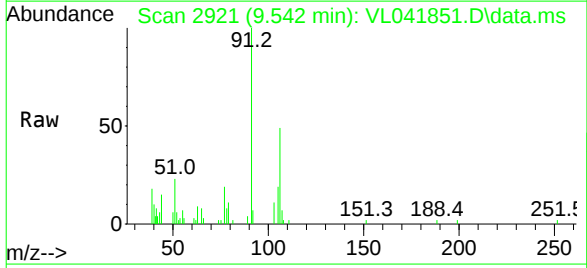
#59
m/p-Xylene
Concen: 0.304 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. -0.023 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 6686
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#

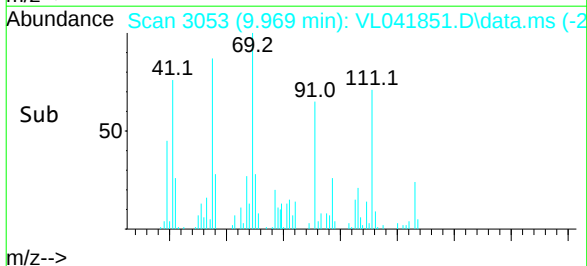
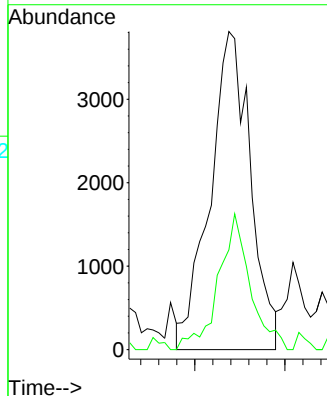
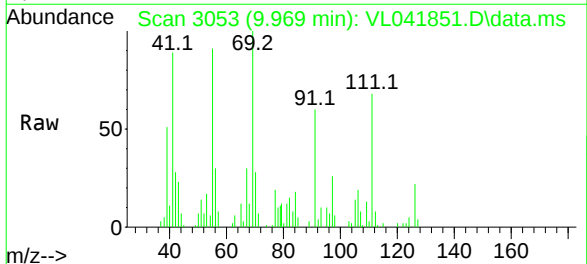
Manual Integrations
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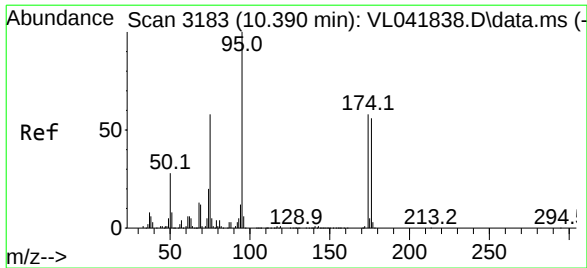
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#60
o-Xylene
Concen: 0.277 ppbv m
RT: 9.969 min Scan# 3053
Delta R.T. -0.010 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 91 Resp: 5929
Ion Ratio Lower Upper
91 100
106 35.7 21.9 65.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.518 ppbv

RT: 10.383 min Scan# 31

Delta R.T. -0.007 min

Lab File: VL041851.D

Acq: 07 Jan 2025 19:05

Instrument :

MSVOA_L

ClientSampleId :

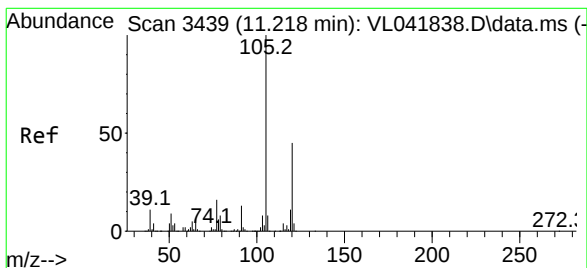
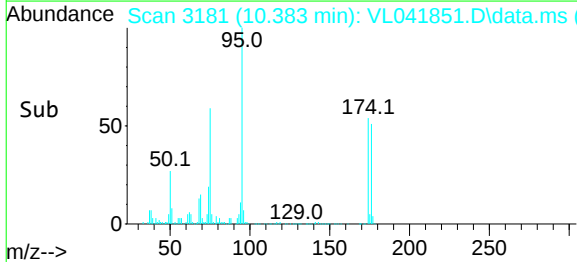
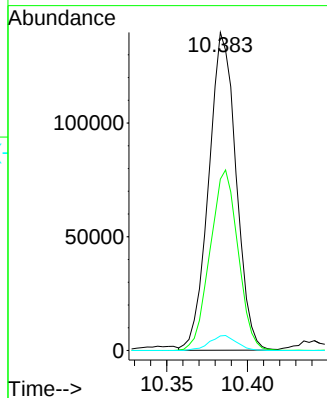
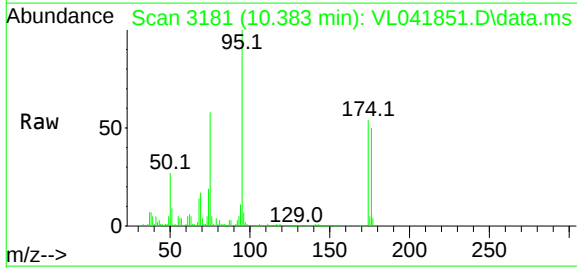
SV1

Tgt Ion:	95	Resp:	164947
Ion Ratio	Lower	Upper	
95	100		
174	58.0	47.6	71.4
175	4.7	3.8	5.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



#73

1,3,5-Trimethylbenzene

Concen: 0.190 ppbv

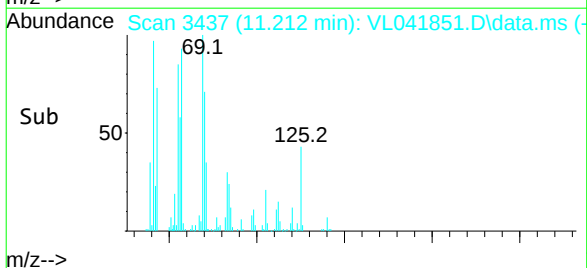
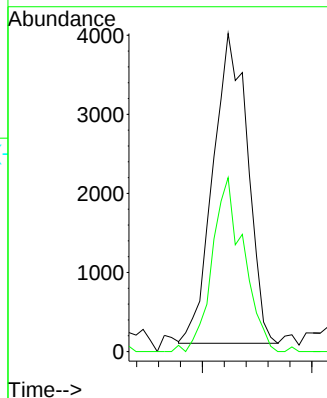
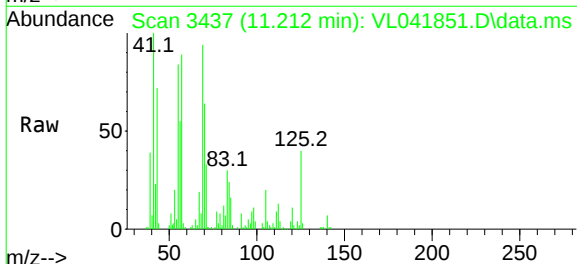
RT: 11.212 min Scan# 3437

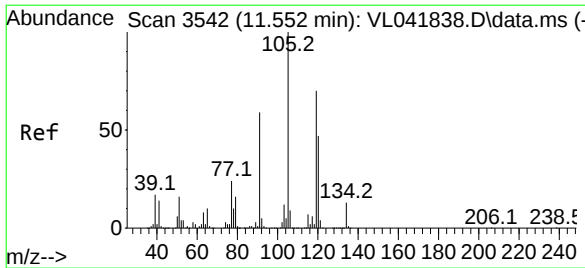
Delta R.T. -0.007 min

Lab File: VL041851.D

Acq: 07 Jan 2025 19:05

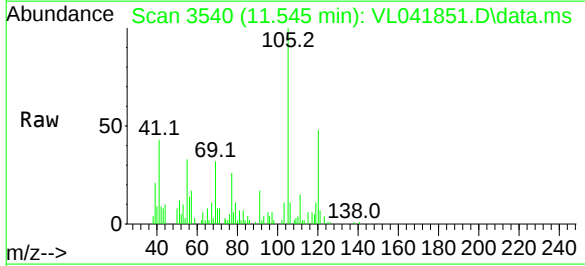
Tgt Ion:	105	Resp:	4304
Ion Ratio	Lower	Upper	
105	100		
120	56.1	35.9	53.9#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.263 ppbv
 RT: 11.545 min Scan# 3542
 Delta R.T. -0.007 min
 Lab File: VL041851.D
 Acq: 07 Jan 2025 19:05

Instrument : MSVOA_L
 ClientSampleId : SV1



Tgt Ion:	105	Resp:	6914
Ion Ratio	Lower	Upper	
105	100		
120	49.0	37.4	56.0
91	7.9	47.4	71.2
77	19.9	19.0	28.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

