

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043160.D
 Acq On : 06 Nov 2025 10:51
 Operator : SY/MD
 Sample : Q3555-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:19:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	115856	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	347710	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	297659	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	232494	10.049	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8398	0.510	ppbv	91
3) Chlorodifluoromethane	1.476	51	4530m	0.254	ppbv	
4) Chloromethane	1.534	50	2691	0.412	ppbv	89
9) Propene	1.489	41	4558m	0.577	ppbv	
10) Heptane	4.981	43	4664m	0.205	ppbv	
11) Trichlorofluoromethane	1.881	101	5276m	0.327	ppbv	
13) Ethanol	1.722	45	144914	49.568	ppbv	96
15) Acetone	1.835	43	139191	8.914	ppbv	92
19) Isopropyl Alcohol	1.887	45	957923	98.493	ppbv #	37
20) Methylene Chloride	2.065	84	4961	0.804	ppbv #	94
26) Hexane	2.829	57	29740	1.667	ppbv #	48
29) Chloroform	2.852	83	20106	0.778	ppbv	90
30) Cyclohexane	3.861	84	2339m	0.150	ppbv	
34) 2-Butanone	2.560	43	7180	0.307	ppbv	97
35) Carbon Tetrachloride	3.764	117	1792m	0.072	ppbv	
36) Benzene	3.658	78	10157m	0.310	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	9884m	0.179	ppbv	
53) Toluene	6.930	91	31524	0.811	ppbv	97
58) Ethyl Benzene	9.354	91	6649	0.130	ppbv #	80
59) m/p-Xylene	9.532	91	17763m	0.436	ppbv	
60) o-Xylene	9.966	91	7015	0.174	ppbv	93
74) 1,2,4-Trimethylbenzene	11.539	105	5454	0.119	ppbv #	50

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

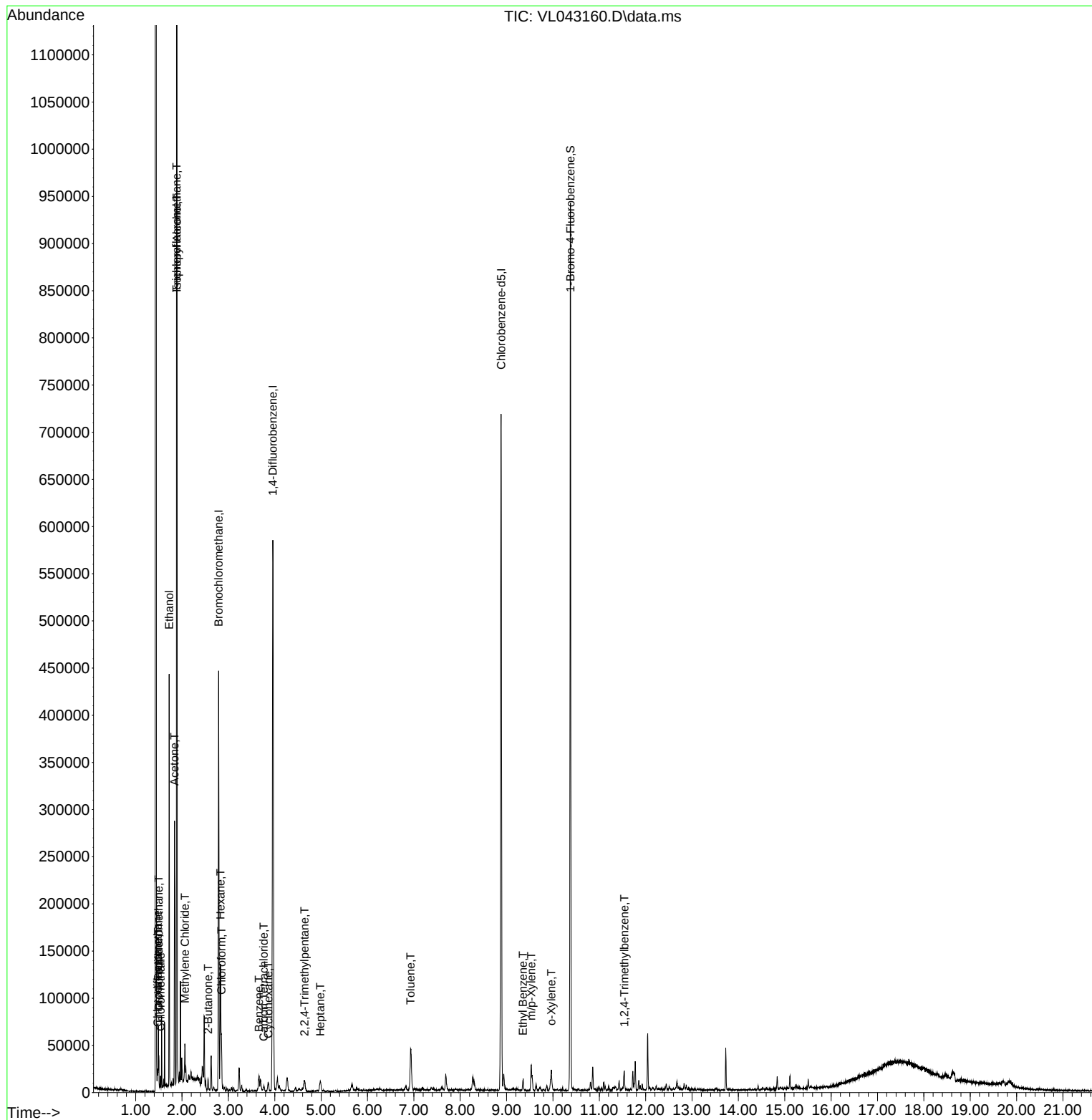
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043160.D
Acq On : 06 Nov 2025 10:51
Operator : SY/MD
Sample : Q3555-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

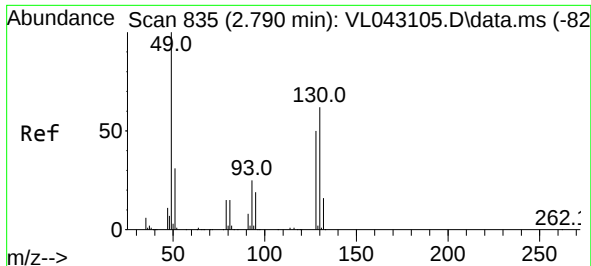
Instrument :
MSVOA_L
ClientSampleId :
151-IA-1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:19:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





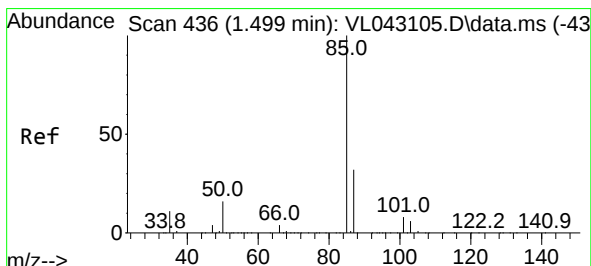
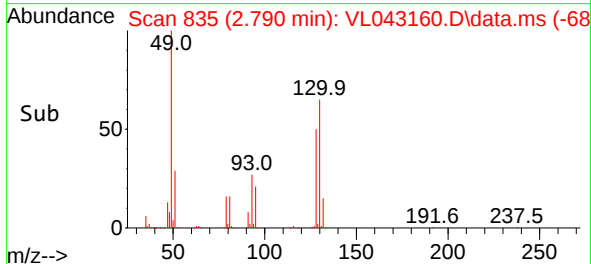
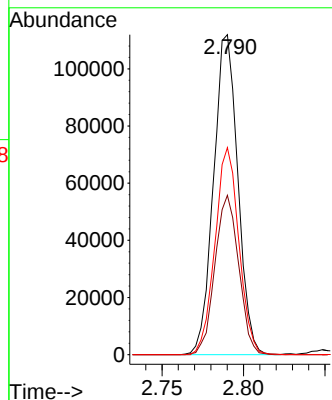
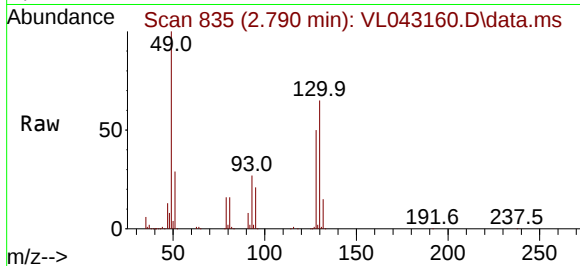
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

Instrument :
MSVOA_L
ClientSampleId :
151-IA-1

Tgt Ion: 49 Resp: 115850
Ion Ratio Lower Upper
49 100
128 48.7 24.4 73.4
130 63.6 31.0 93.0

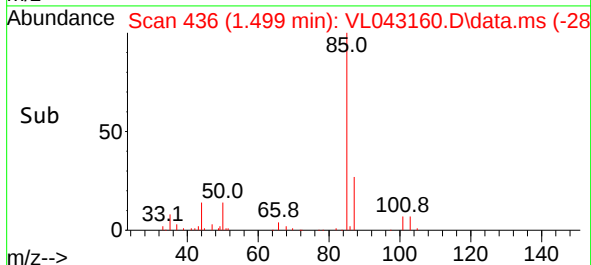
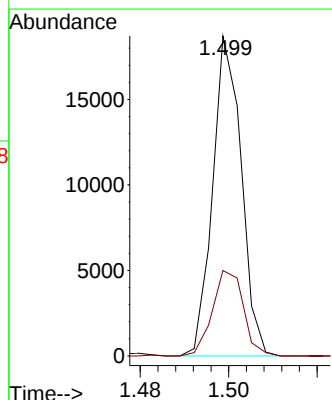
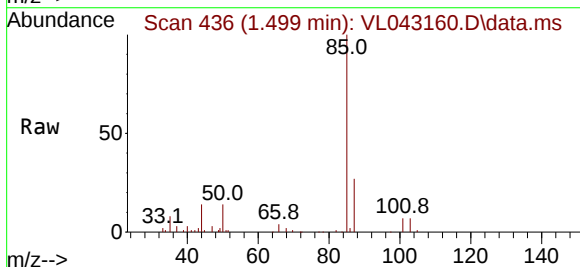
Manual Integrations
APPROVED

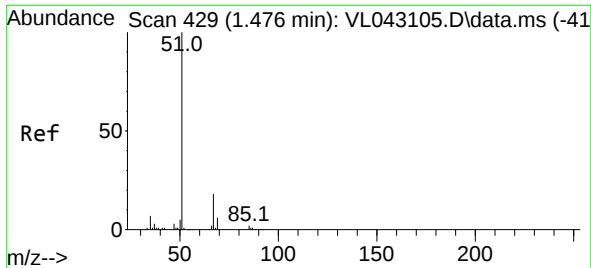
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.510 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

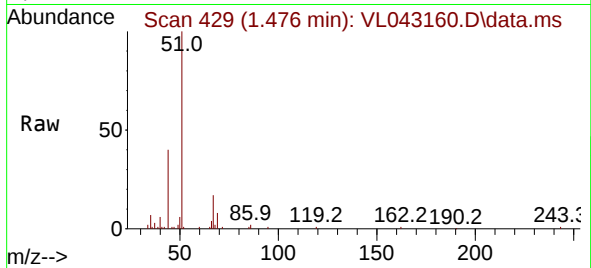
Tgt Ion: 85 Resp: 8398
Ion Ratio Lower Upper
85 100
87 26.7 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.254 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

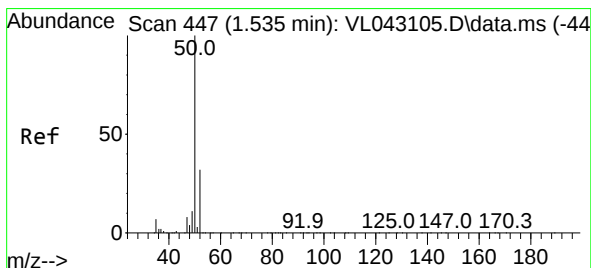
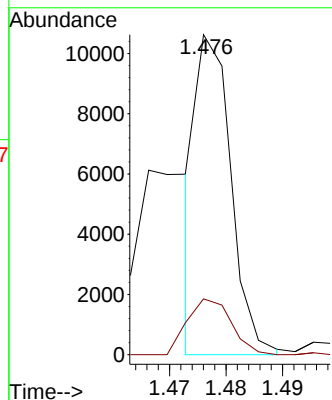
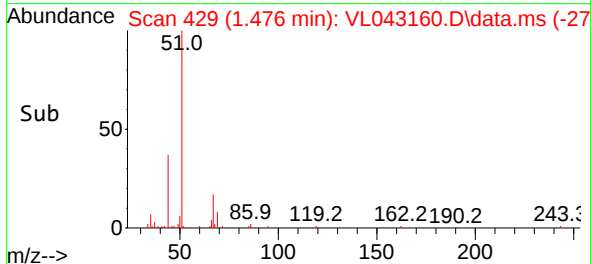
Instrument :
MSVOA_L
ClientSampleId :
151-IA-1



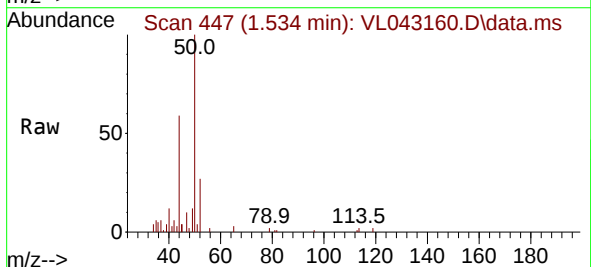
Tgt Ion: 51 Resp: 4530
Ion Ratio Lower Upper
51 100
67 2.2 15.1 22.7

Manual Integrations
APPROVED

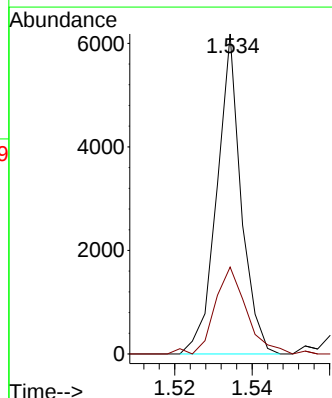
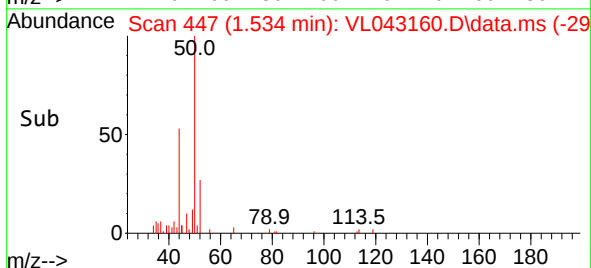
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

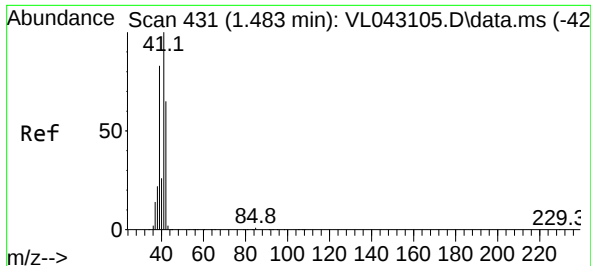


#4
Chloromethane
Concen: 0.412 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51



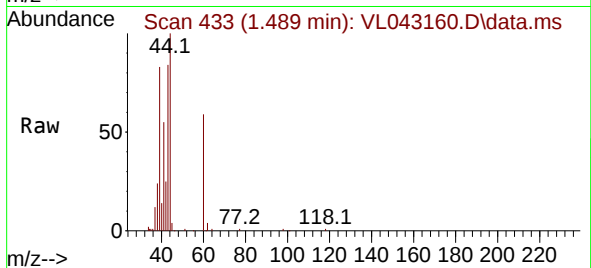
Tgt Ion: 50 Resp: 2691
Ion Ratio Lower Upper
50 100
52 25.4 25.2 37.8





#9
 Propene
 Concen: 0.577 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL043160.D
 Acq: 06 Nov 2025 10:51

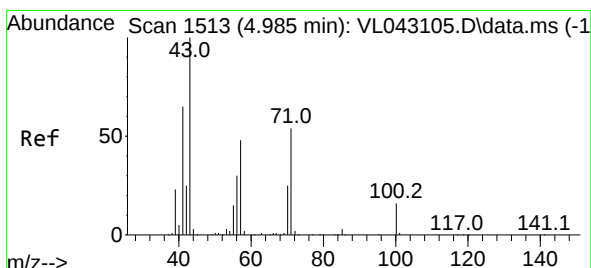
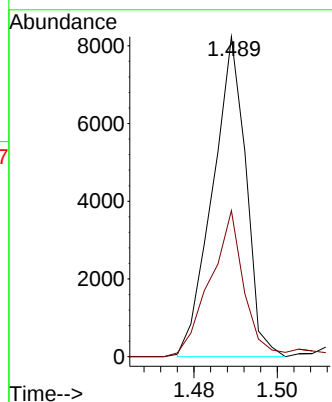
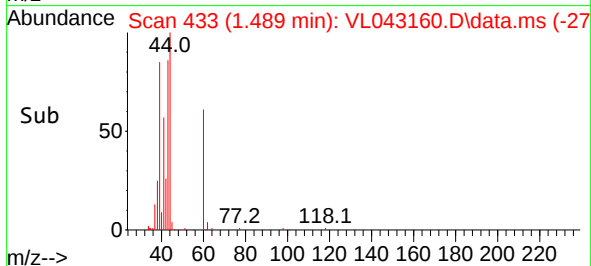
Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-1



Tgt Ion: 41 Resp: 4558
 Ion Ratio Lower Upper
 41 100
 42 1154.3 55.1 82.7

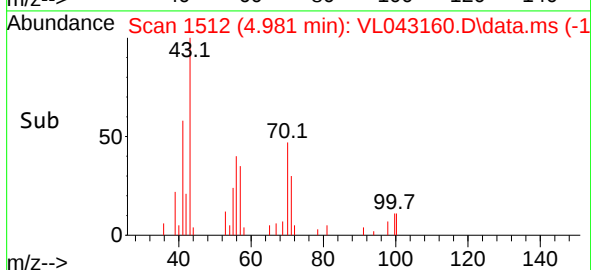
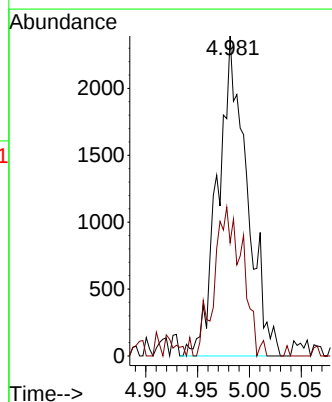
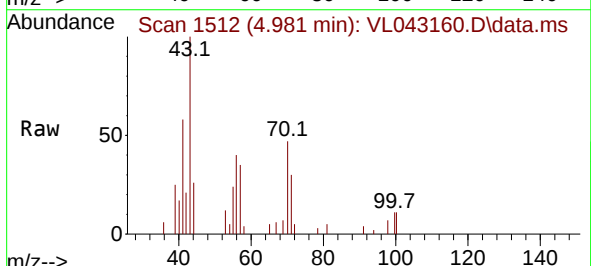
Manual Integrations
 APPROVED

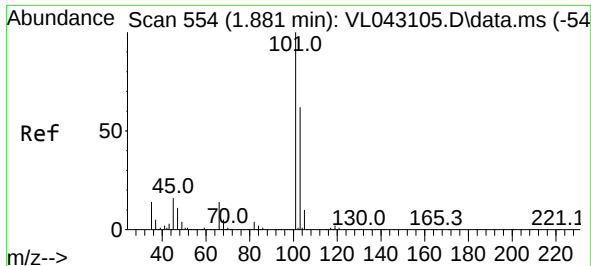
Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025



#10
 Heptane
 Concen: 0.205 ppbv m
 RT: 4.981 min Scan# 1512
 Delta R.T. -0.004 min
 Lab File: VL043160.D
 Acq: 06 Nov 2025 10:51

Tgt Ion: 43 Resp: 4664
 Ion Ratio Lower Upper
 43 100
 57 45.8 40.8 61.2





#11

Trichlorofluoromethane

Concen: 0.327 ppbv m

RT: 1.881 min Scan# 505

Delta R.T. -0.000 min

Lab File: VL043160.D

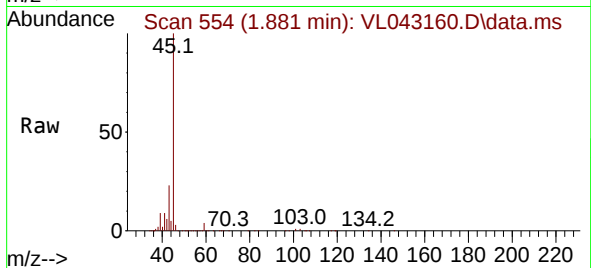
Acq: 06 Nov 2025 10:51

Instrument :

MSVOA_L

ClientSampleId :

151-IA-1



Tgt Ion:101 Resp: 5270

Ion Ratio Lower Upper

101 100

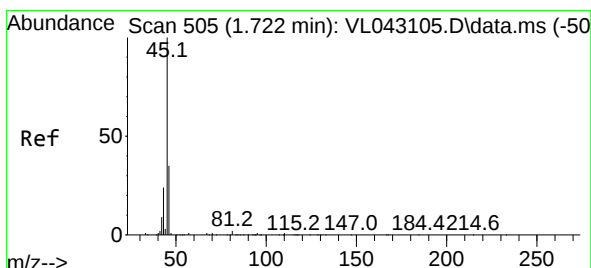
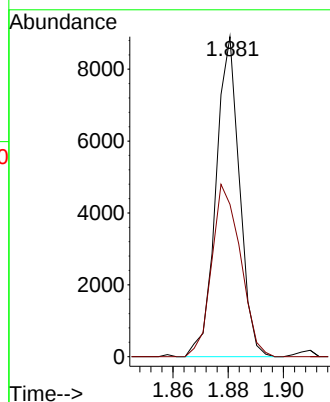
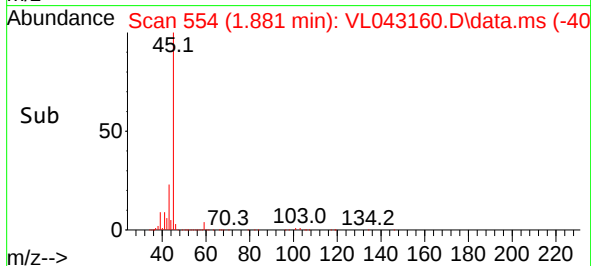
103 47.6 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#13

Ethanol

Concen: 49.568 ppbv

RT: 1.722 min Scan# 505

Delta R.T. -0.000 min

Lab File: VL043160.D

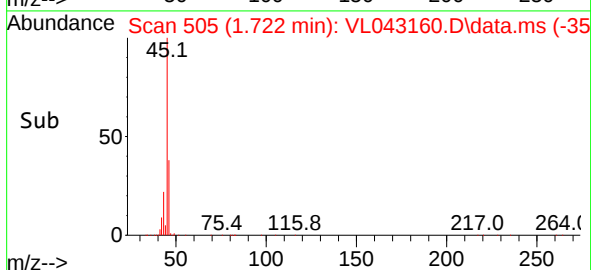
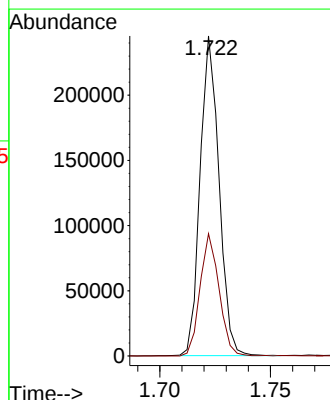
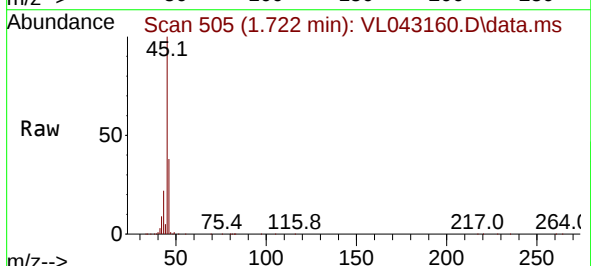
Acq: 06 Nov 2025 10:51

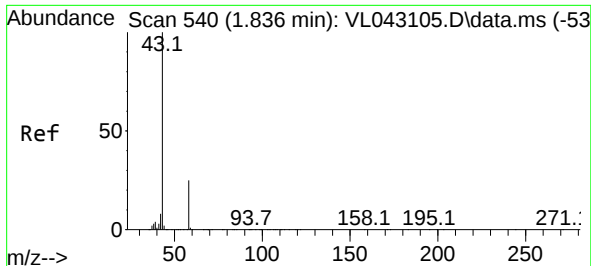
Tgt Ion: 45 Resp: 144914

Ion Ratio Lower Upper

45 100

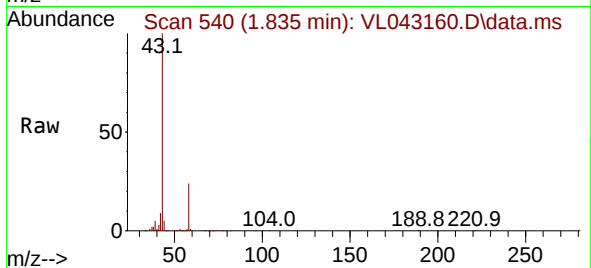
46 39.0 14.7 58.9





#15
Acetone
Concen: 8.914 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

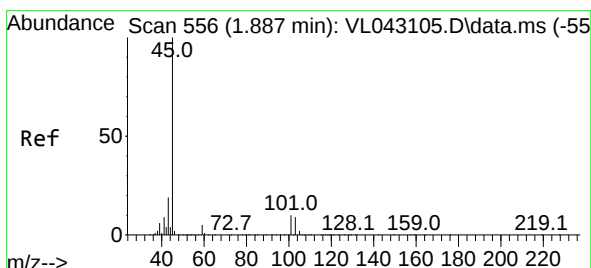
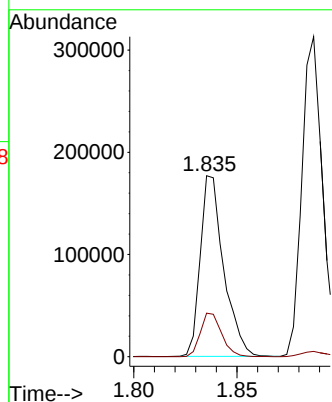
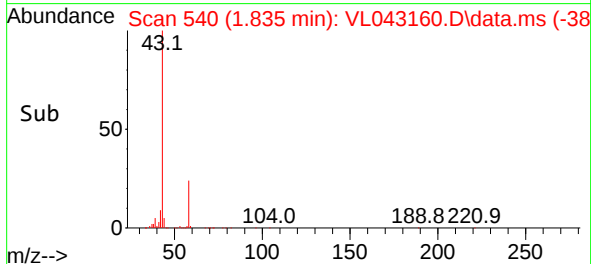
Instrument : MSVOA_L
ClientSampleId : 151-IA-1



Tgt Ion: 43 Resp: 13919
Ion Ratio Lower Upper
43 100
58 21.9 20.8 31.2

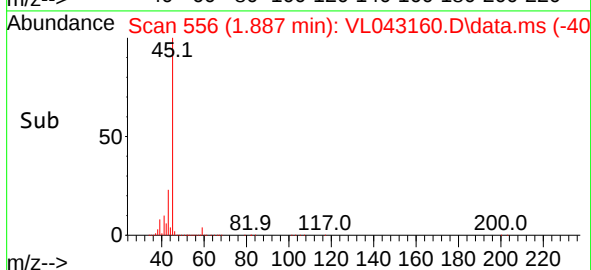
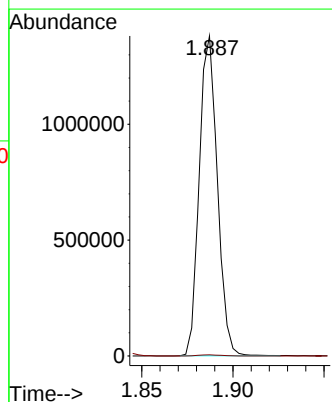
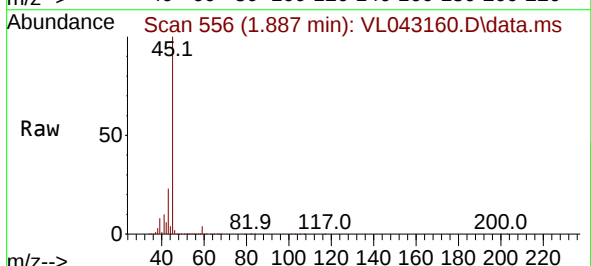
Manual Integrations
APPROVED

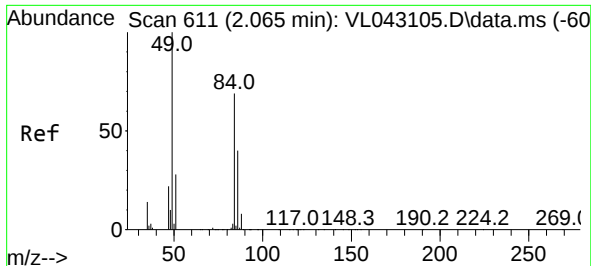
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#19
Isopropyl Alcohol
Concen: 98.493 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

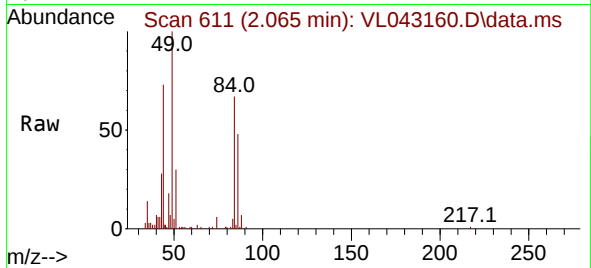
Tgt Ion: 45 Resp: 957923
Ion Ratio Lower Upper
45 100
58 0.5 31.3 46.9#





#20
Methylene Chloride
Concen: 0.804 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

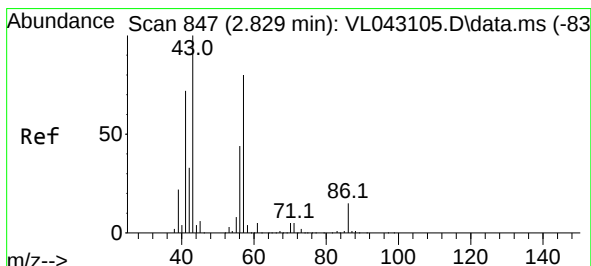
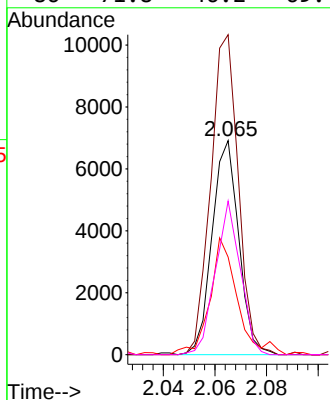
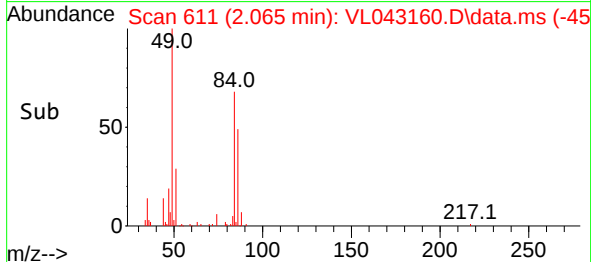
Instrument :
MSVOA_L
ClientSampleId :
151-IA-1



Tgt Ion: 84 Resp: 4961
Ion Ratio Lower Upper
84 100
49 149.5 116.6 175.0
51 43.4 34.8 52.2
86 71.8 46.2 69.4#

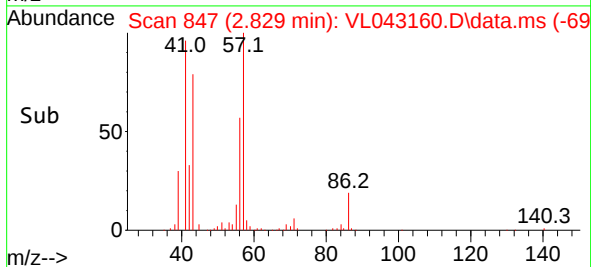
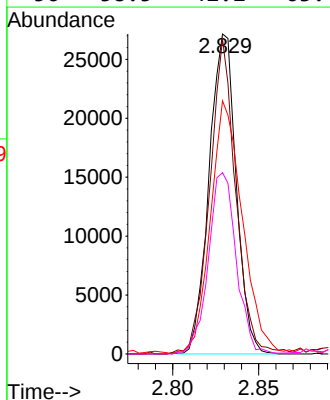
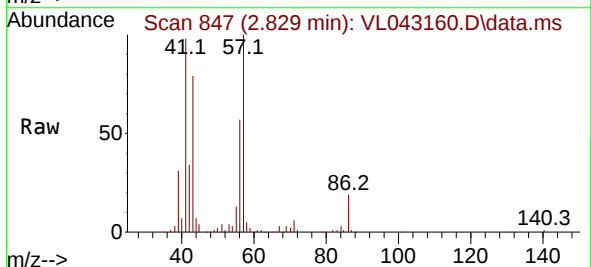
Manual Integrations
APPROVED

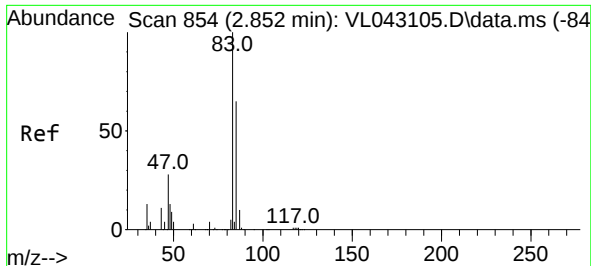
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#26
Hexane
Concen: 1.667 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

Tgt Ion: 57 Resp: 29740
Ion Ratio Lower Upper
57 100
41 97.4 71.4 107.0
43 94.7 178.5 267.7#
56 58.5 42.2 63.4





#29

Chloroform

Concen: 0.778 ppbv

RT: 2.852 min Scan# 854

Delta R.T. -0.000 min

Lab File: VL043160.D

Acq: 06 Nov 2025 10:51

Instrument :

MSVOA_L

ClientSampleId :

151-IA-1

Tgt Ion: 83 Resp: 20100

Ion Ratio Lower Upper

83 100

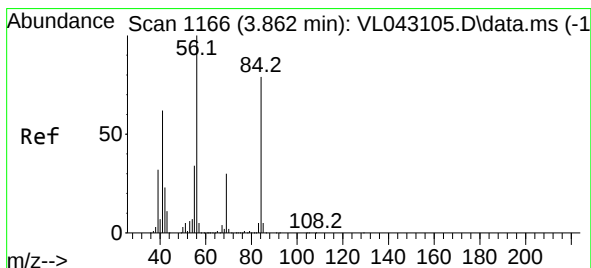
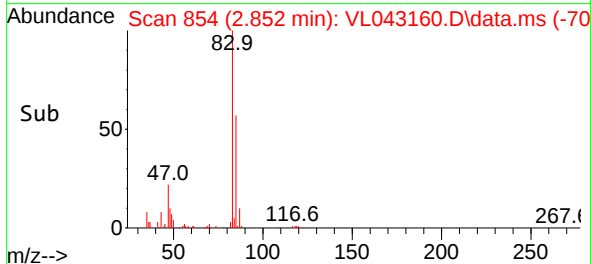
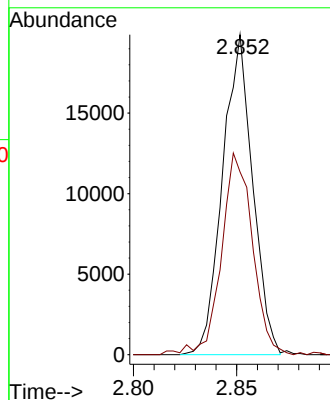
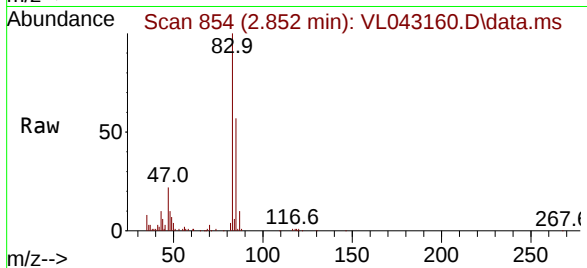
85 56.5 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#30

Cyclohexane

Concen: 0.150 ppbv m

RT: 3.861 min Scan# 1166

Delta R.T. -0.000 min

Lab File: VL043160.D

Acq: 06 Nov 2025 10:51

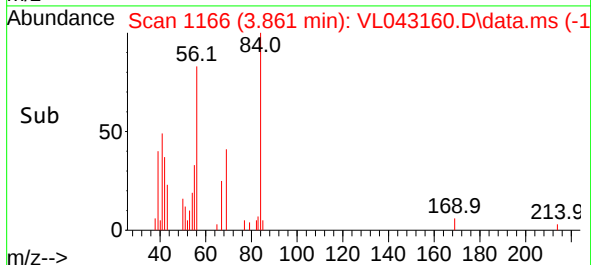
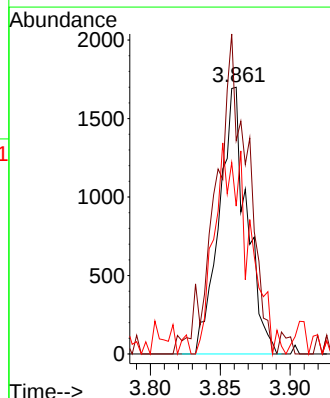
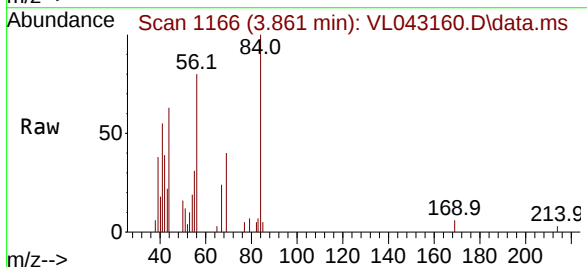
Tgt Ion: 84 Resp: 2339

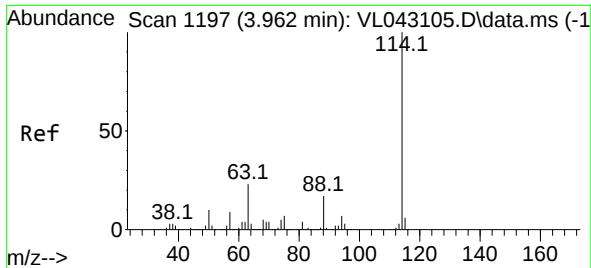
Ion Ratio Lower Upper

84 100

56 0.0 100.9 151.3#

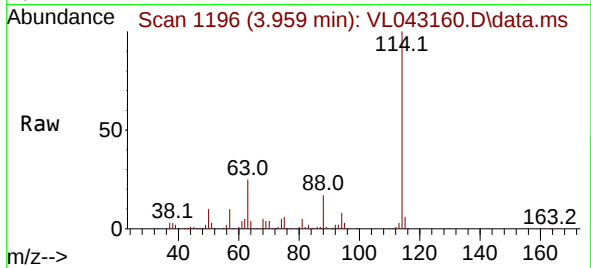
41 0.0 63.8 95.6#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.004 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

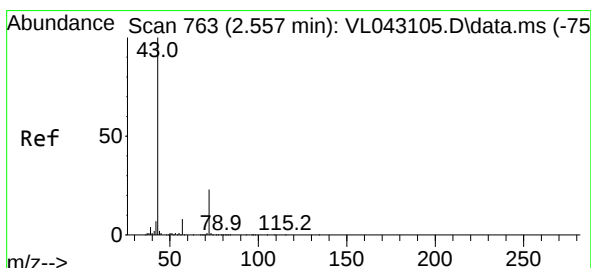
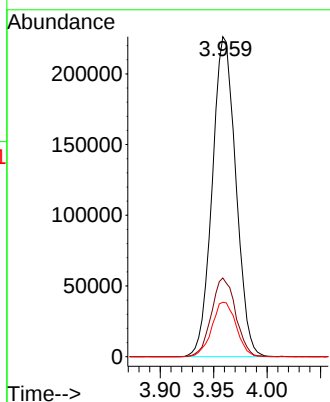
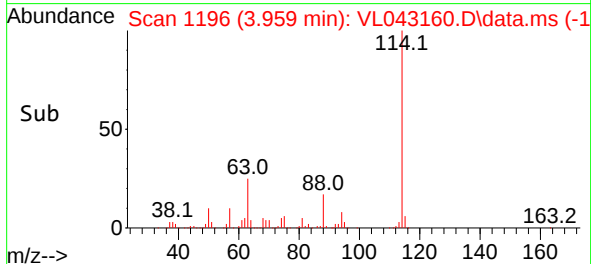
Instrument :
MSVOA_L
ClientSampleId :
151-IA-1



Tgt Ion:114 Resp: 347710
Ion Ratio Lower Upper
114 100
63 25.3 19.3 28.9
88 17.5 13.9 20.9

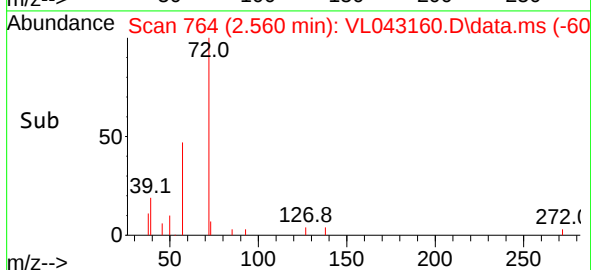
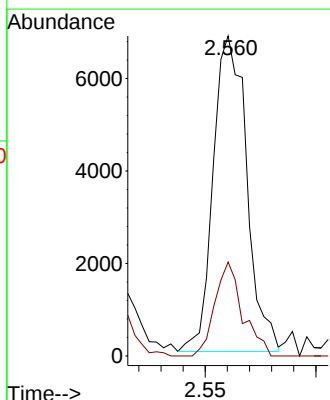
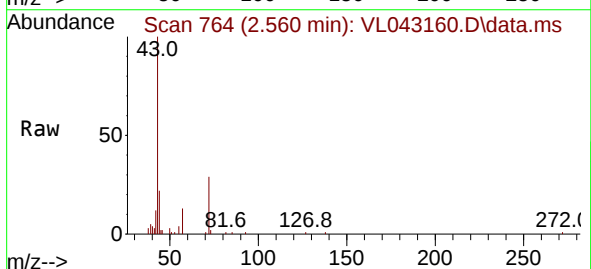
Manual Integrations
APPROVED

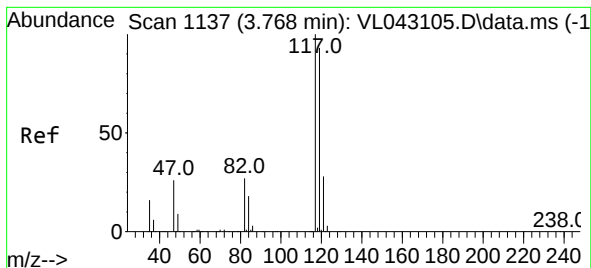
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#34
2-Butanone
Concen: 0.307 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

Tgt Ion: 43 Resp: 7180
Ion Ratio Lower Upper
43 100
72 24.7 18.4 27.6





#35

Carbon Tetrachloride

Concen: 0.072 ppbv m

RT: 3.764 min Scan# 1136

Delta R.T. -0.004 min

Lab File: VL043160.D

Acq: 06 Nov 2025 10:51

Instrument :

MSVOA_L

ClientSampleId :

151-IA-1

Tgt Ion: 117 Resp: 179

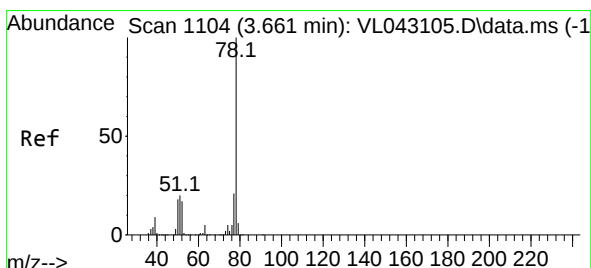
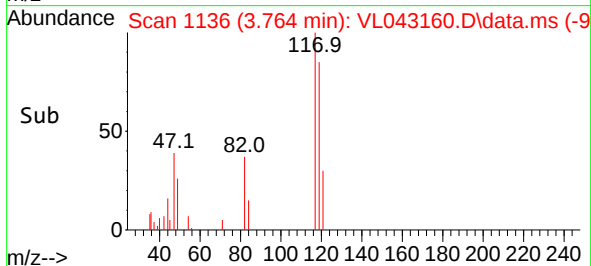
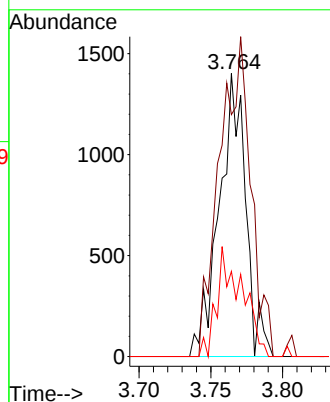
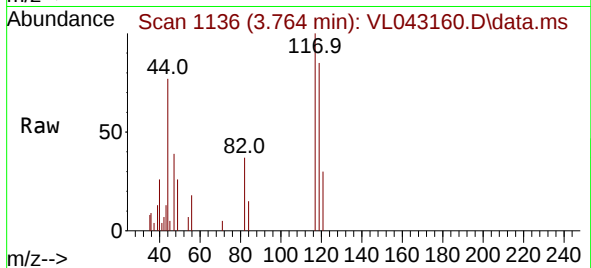
Ion	Ratio	Lower	Upper
117	100		
119	85.4	74.1	111.1
121	30.1	22.2	33.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#36

Benzene

Concen: 0.310 ppbv m

RT: 3.658 min Scan# 1103

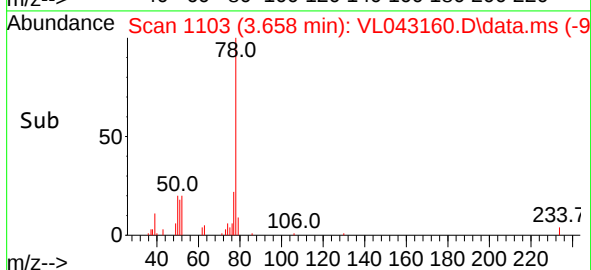
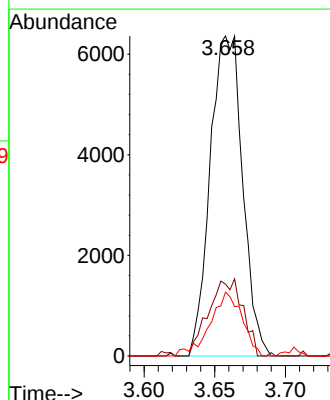
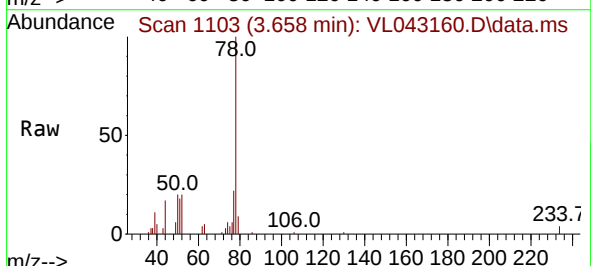
Delta R.T. -0.004 min

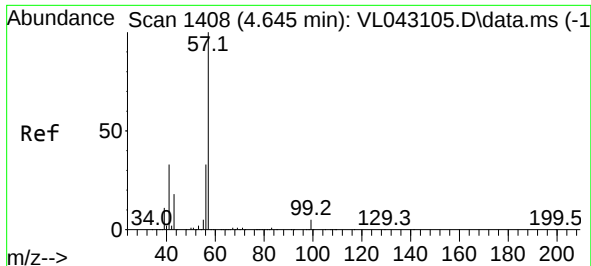
Lab File: VL043160.D

Acq: 06 Nov 2025 10:51

Tgt Ion: 78 Resp: 10157

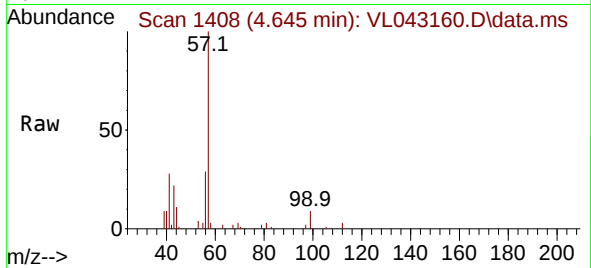
Ion	Ratio	Lower	Upper
78	100		
77	22.4	17.0	25.6
50	20.0	14.6	22.0





#44
2,2,4-Trimethylpentane
Concen: 0.179 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

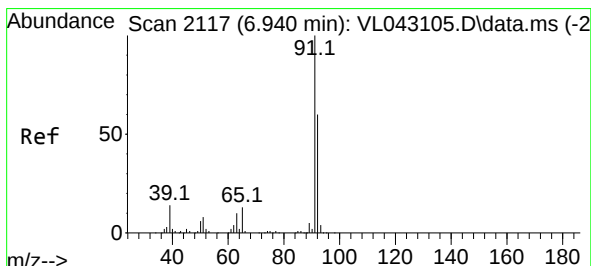
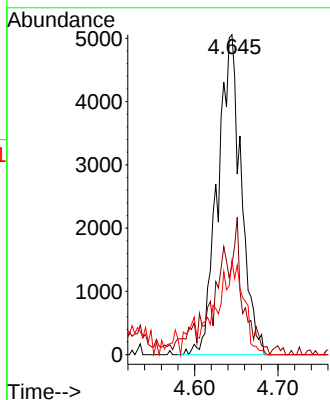
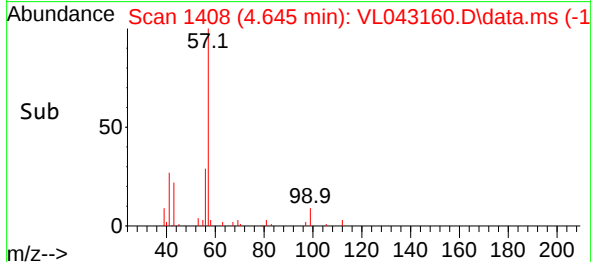
Instrument : MSVOA_1
ClientSampleId : 151-IA-1



Tgt Ion: 57 Resp: 9884
Ion Ratio Lower Upper
57 100
41 0.0 26.3 39.5
56 0.0 25.9 38.9

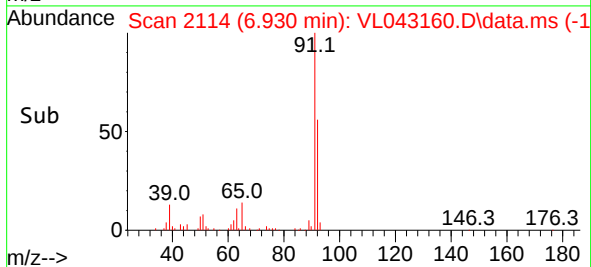
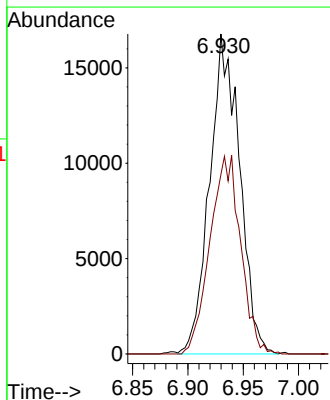
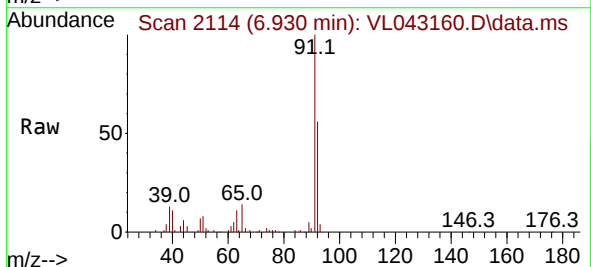
Manual Integrations
APPROVED

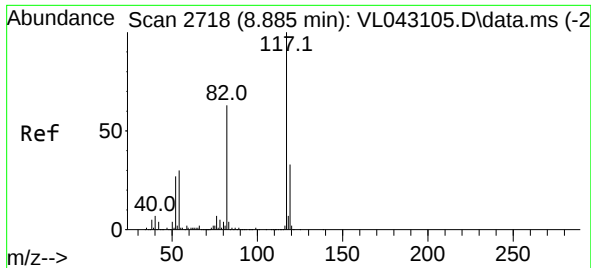
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.811 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.010 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

Tgt Ion: 91 Resp: 31524
Ion Ratio Lower Upper
91 100
92 63.6 48.8 73.2





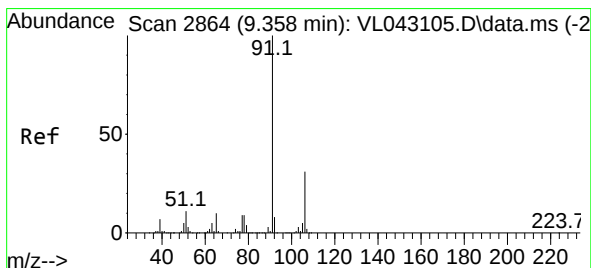
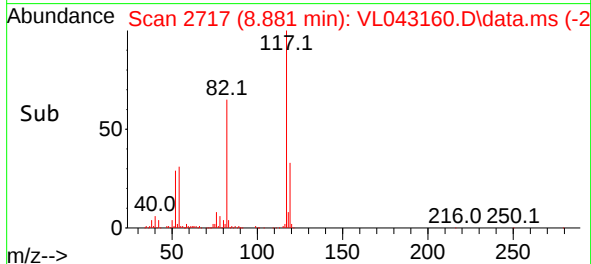
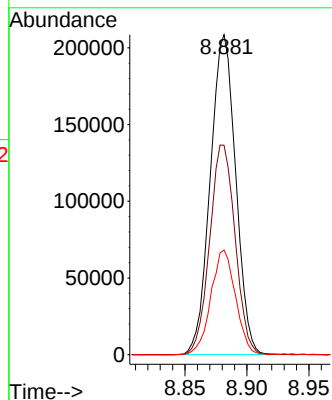
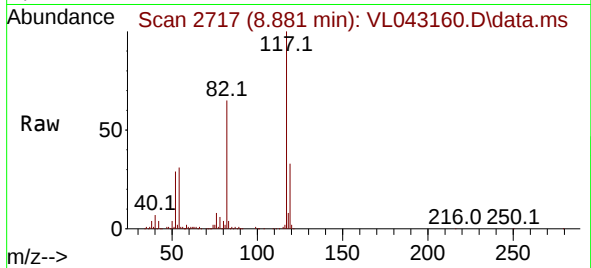
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

Instrument :
MSVOA_L
ClientSampleId :
151-IA-1

Tgt Ion:117 Resp: 297659
Ion Ratio Lower Upper
117 100
82 65.8 53.8 80.8
119 32.0 25.4 38.0

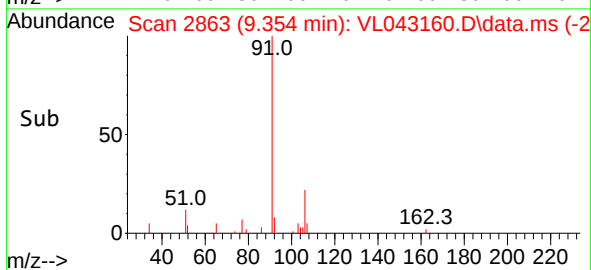
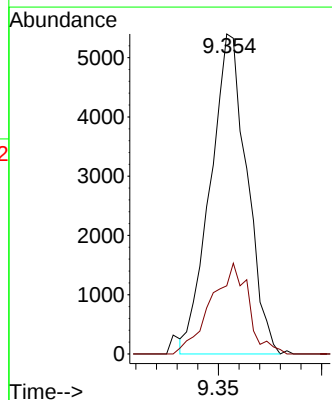
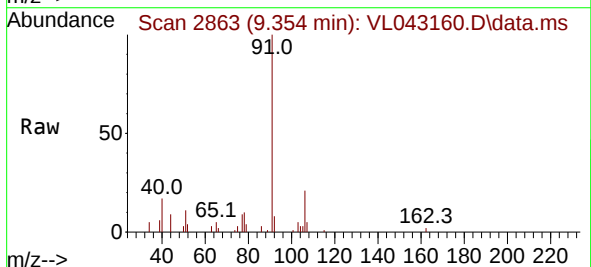
Manual Integrations
APPROVED

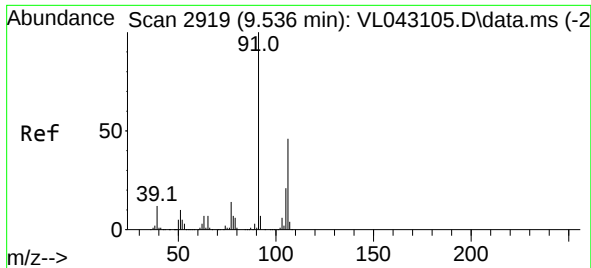
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#58
Ethyl Benzene
Concen: 0.130 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.004 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

Tgt Ion: 91 Resp: 6649
Ion Ratio Lower Upper
91 100
106 19.9 24.8 37.2#





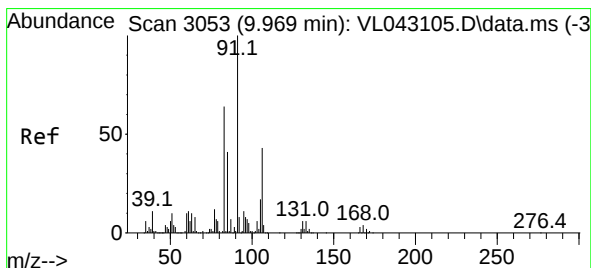
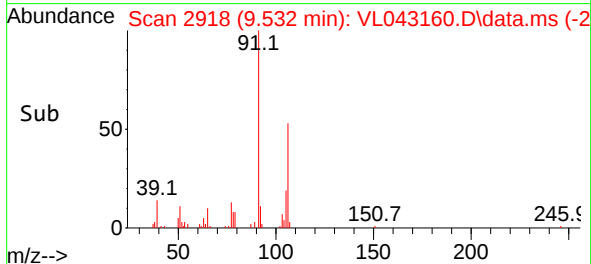
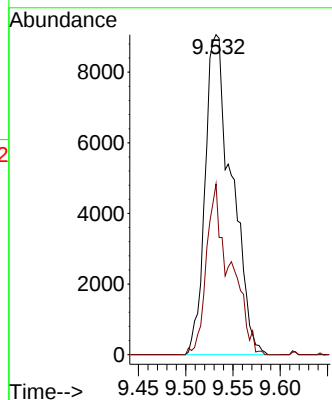
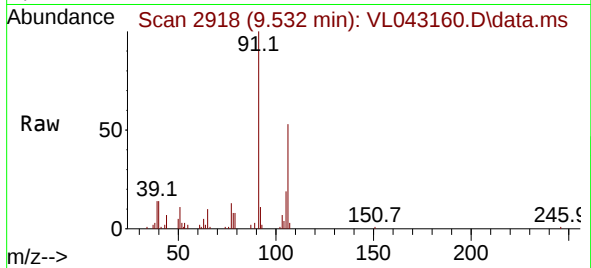
#59
m/p-Xylene
Concen: 0.436 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.004 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

Instrument :
MSVOA_L
ClientSampleId :
151-IA-1

Tgt Ion: 91 Resp: 1776
Ion Ratio Lower Upper
91 100
106 47.8 38.0 57.0

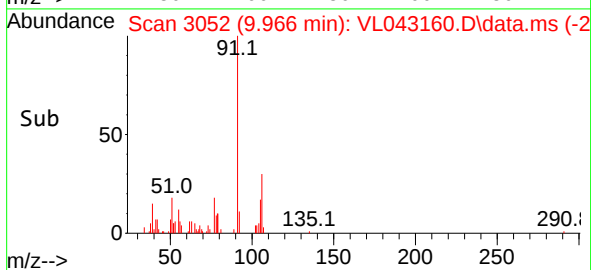
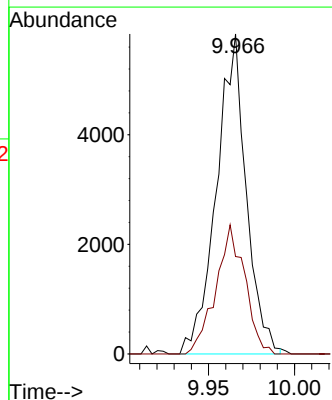
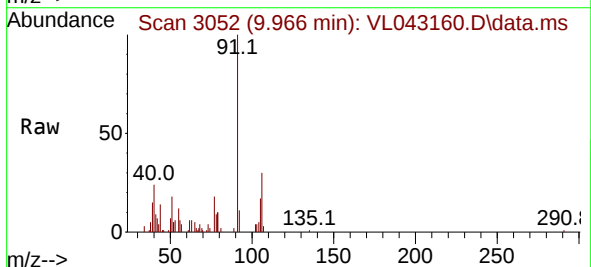
Manual Integrations
APPROVED

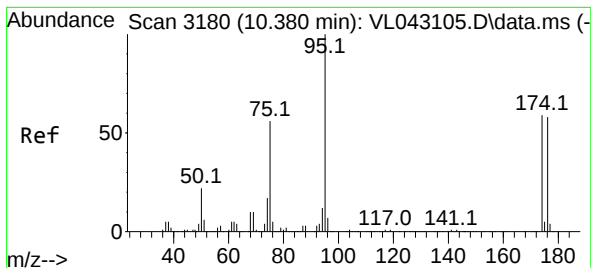
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#60
o-Xylene
Concen: 0.174 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. -0.004 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

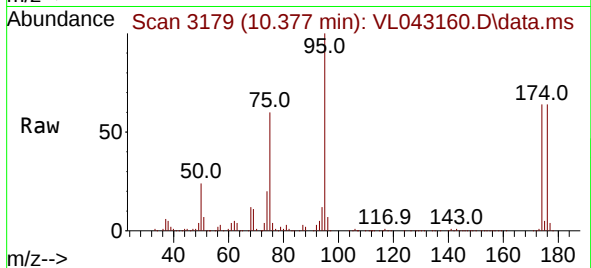
Tgt Ion: 91 Resp: 7015
Ion Ratio Lower Upper
91 100
106 39.3 21.9 65.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.049 ppbv
RT: 10.377 min Scan# 3180
Delta R.T. -0.004 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

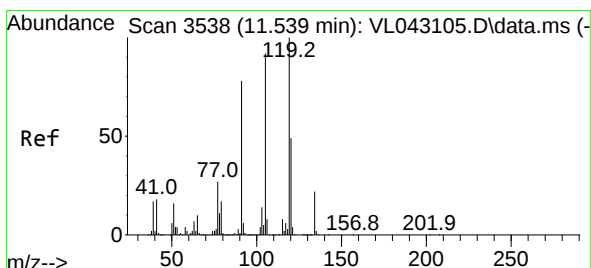
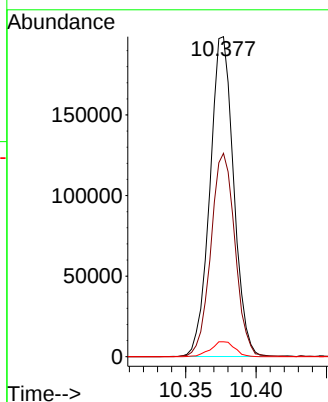
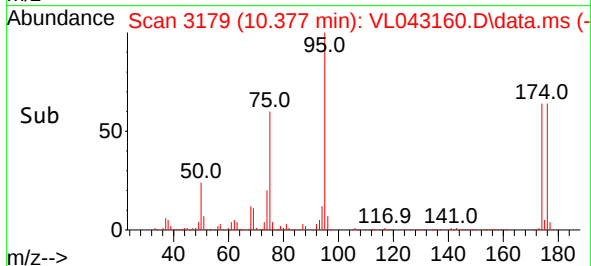
Instrument :
MSVOA_L
ClientSampleId :
151-IA-1



Tgt Ion: 95 Resp: 232494
Ion Ratio Lower Upper
95 100
174 64.9 48.3 72.5
175 4.8 3.8 5.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.119 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL043160.D
Acq: 06 Nov 2025 10:51

Tgt Ion:105 Resp: 5454
Ion Ratio Lower Upper
105 100
120 48.5 42.8 64.2
91 8.4 68.3 102.5#
77 15.2 23.4 35.0#

