

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042057.D
 Acq On : 26 Feb 2025 12:48
 Operator : SY/MD
 Sample : Q1430-05DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 01:53:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	157475	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	376491	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	312935	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	246340	10.232	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6837	0.418	ppbv	90
3) Chlorodifluoromethane	1.476	51	6114m	0.267	ppbv	
4) Chloromethane	1.535	50	2648	0.437	ppbv	89
9) Propene	1.486	41	59708	6.404	ppbv	94
10) Heptane	4.998	43	13387	0.461	ppbv	90
11) Trichlorofluoromethane	1.881	101	3632	0.221	ppbv	91
13) Ethanol	1.722	45	88540	149.589	ppbv	92
15) Acetone	1.839	43	87371	6.283	ppbv #	82
16) 1,3-Butadiene	1.603	39	12815	1.980	ppbv #	34
19) Isopropyl Alcohol	1.891	45	13738	1.720	ppbv #	2
20) Methylene Chloride	2.066	84	81880	15.566	ppbv	96
26) Hexane	2.833	57	134902	5.995	ppbv #	35
29) Chloroform	2.855	83	7960	0.263	ppbv	98
30) Cyclohexane	3.868	84	4816	0.264	ppbv #	76
34) 2-Butanone	2.567	43	14826	0.505	ppbv	93
35) Carbon Tetrachloride	3.768	117	1790m	0.069	ppbv	
36) Benzene	3.664	78	148455	3.767	ppbv	97
44) 2,2,4-Trimethylpentane	4.652	57	91605	1.317	ppbv	93
50) 4-Methyl-2-Pentanone	5.794	43	15856m	0.418	ppbv	
52) Tetrachloroethene	8.231	164	459m	0.034	ppbv	
53) Toluene	6.946	91	250049	5.677	ppbv	98
58) Ethyl Benzene	9.364	91	33306	0.578	ppbv	94
59) m/p-Xylene	9.542	91	104874	2.287	ppbv #	100
60) o-Xylene	9.973	91	33778	0.733	ppbv	100
61) Styrene	9.885	104	3828m	0.177	ppbv	
72) 4-Ethyltoluene	11.131	105	8542	0.152	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	6591	0.135	ppbv #	81
74) 1,2,4-Trimethylbenzene	11.542	105	20277	0.369	ppbv #	60
79) Naphthalene	13.520	128	4136	0.110	ppbv #	74

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

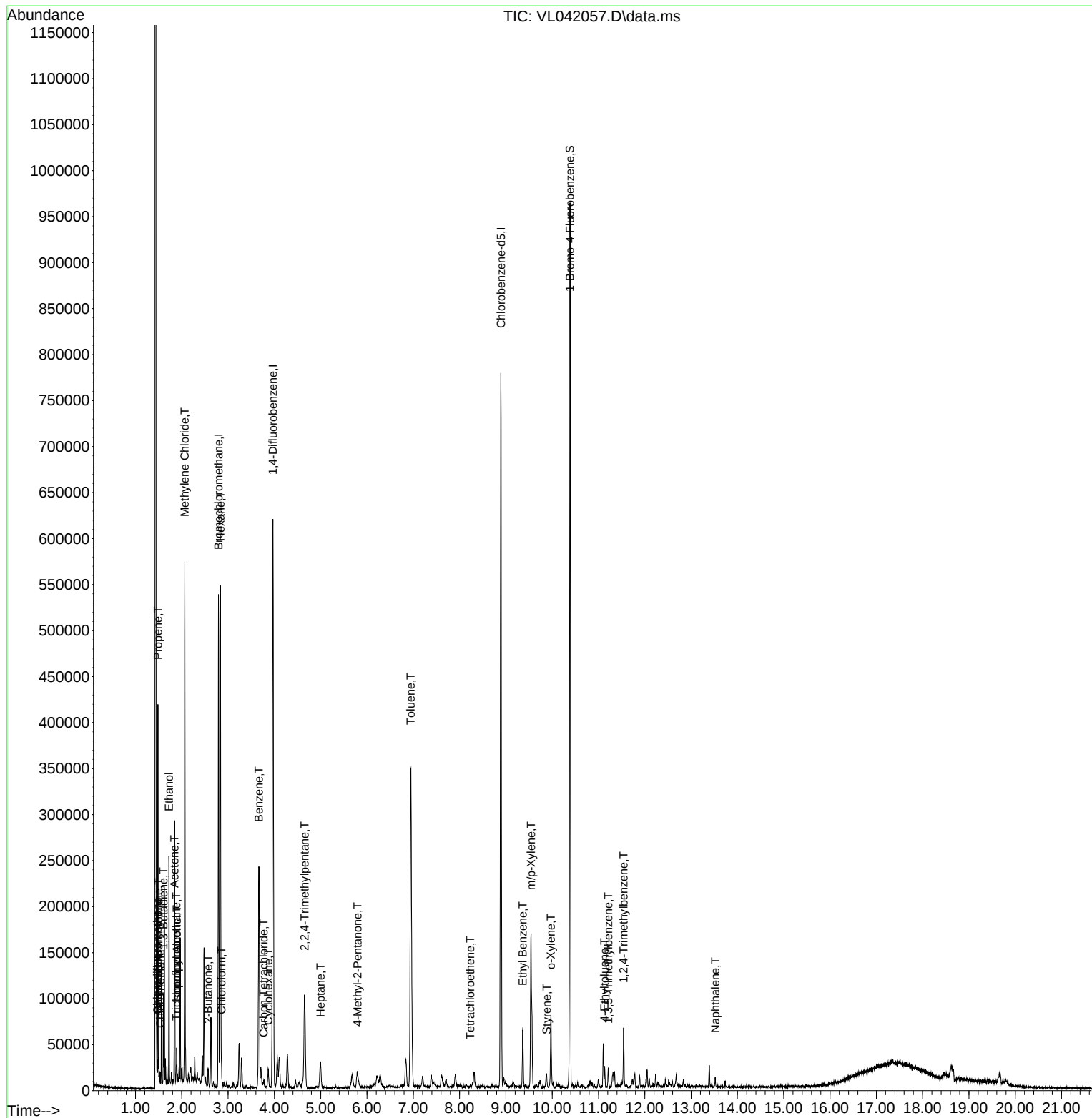
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042057.D
Acq On : 26 Feb 2025 12:48
Operator : SY/MD
Sample : Q1430-05DUP
Misc : 400mL/MSVOA_L
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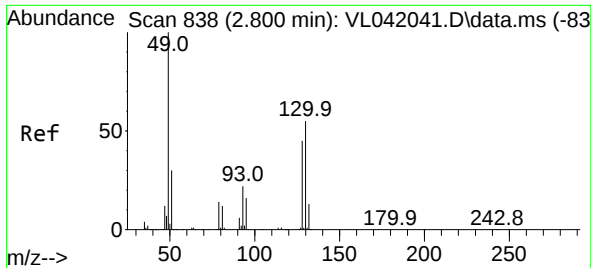
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Feb 27 01:53:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
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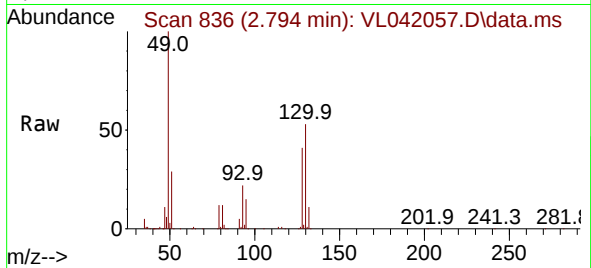
Reviewed By : Semsettin Yesilyurt 02/27/2025
Supervised By : Mahesh Dadoda 02/27/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

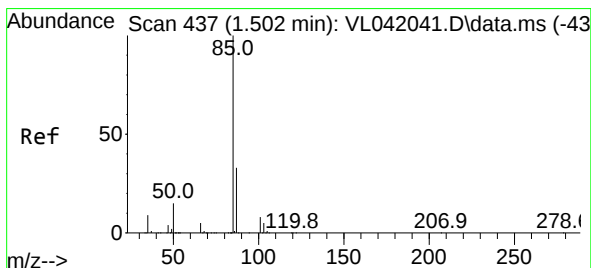
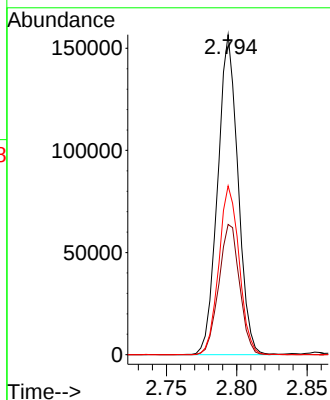
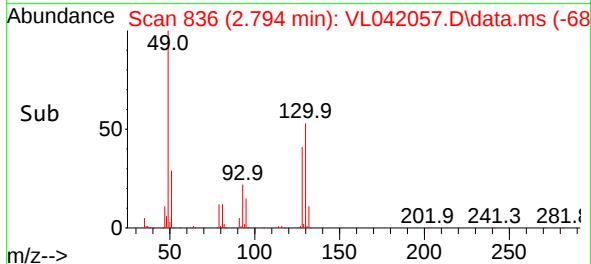
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



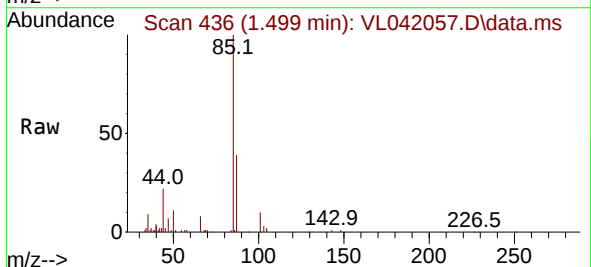
Tgt Ion: 49 Resp: 15747
Ion Ratio Lower Upper
49 100
128 41.6 21.6 64.8
130 52.8 27.8 83.4

Manual Integrations
APPROVED

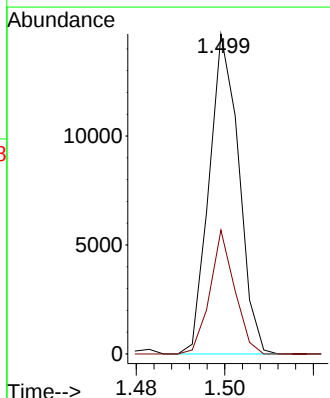
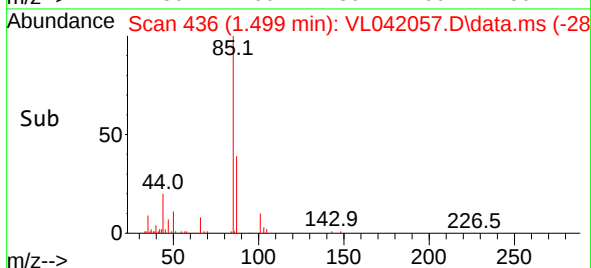
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

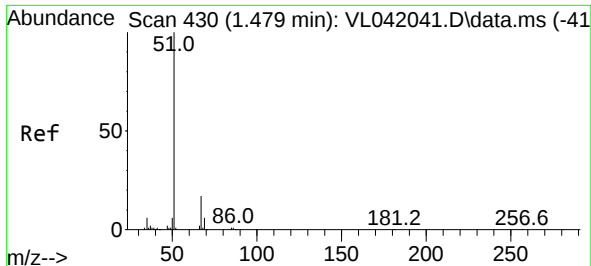


#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48



Tgt Ion: 85 Resp: 6837
Ion Ratio Lower Upper
85 100
87 38.7 26.4 39.6





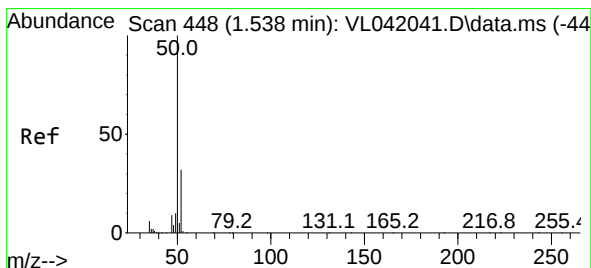
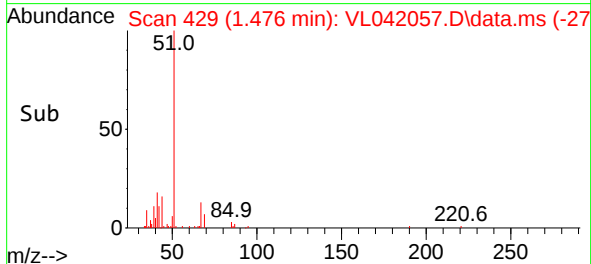
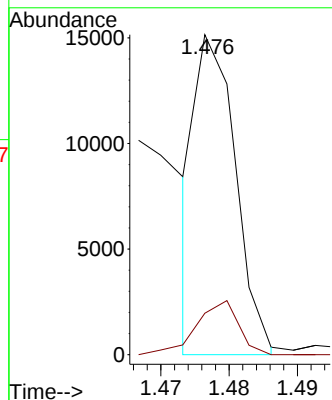
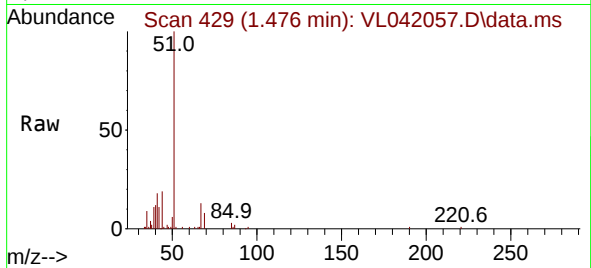
#3
Chlorodifluoromethane
Concen: 0.267 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 51 Resp: 6114
Ion Ratio Lower Upper
51 100
67 19.5 13.7 20.5

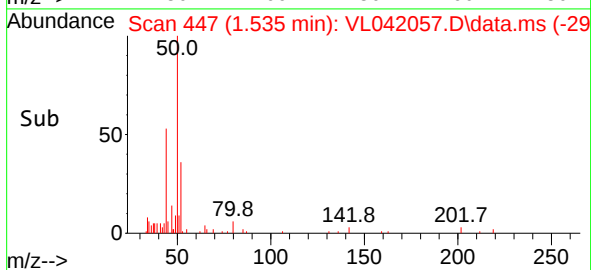
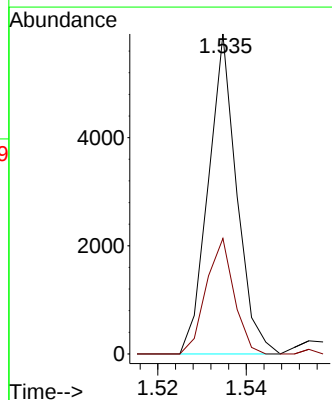
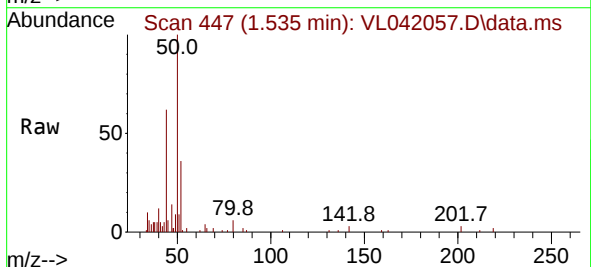
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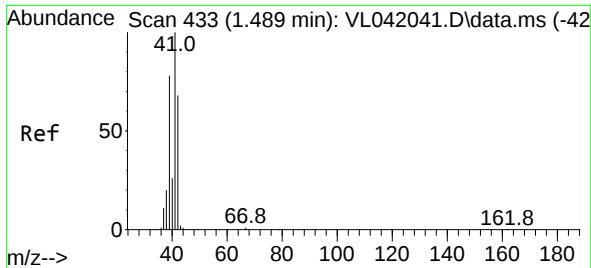
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#4
Chloromethane
Concen: 0.437 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

Tgt Ion: 50 Resp: 2648
Ion Ratio Lower Upper
50 100
52 37.6 25.4 38.0





#9

Propene

Concen: 6.404 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042057.D

Acq: 26 Feb 2025 12:48

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 59708

Ion Ratio Lower Upper

41 100

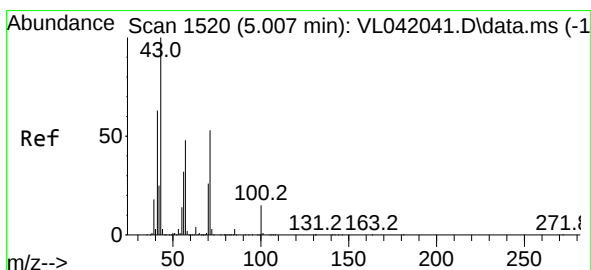
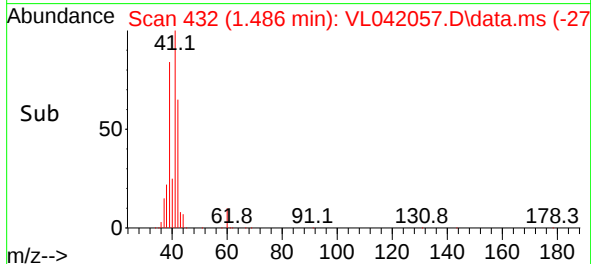
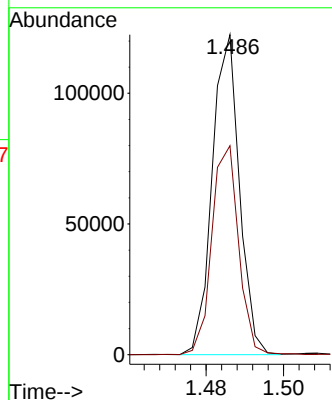
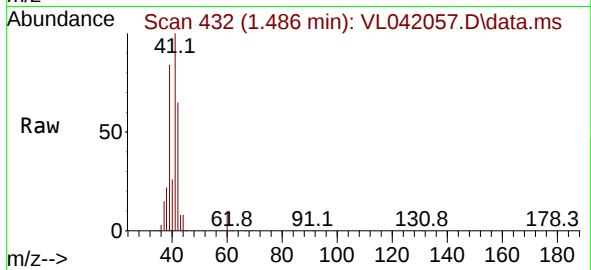
42 64.9 55.8 83.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#10

Heptane

Concen: 0.461 ppbv

RT: 4.998 min Scan# 1517

Delta R.T. -0.010 min

Lab File: VL042057.D

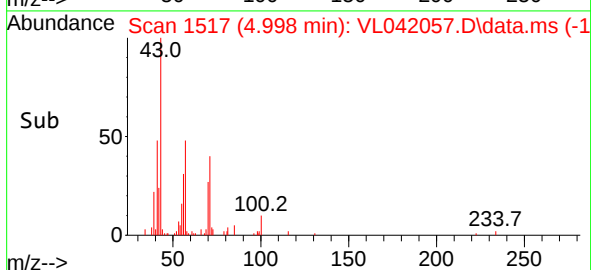
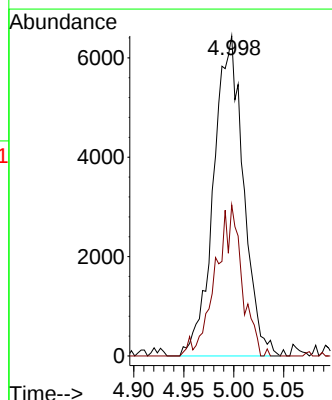
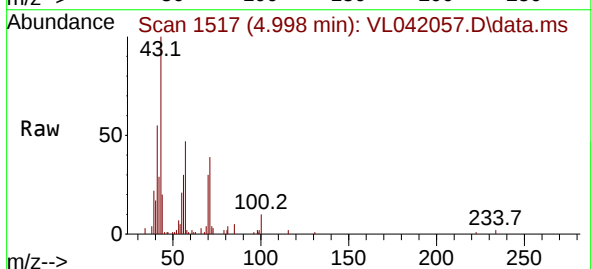
Acq: 26 Feb 2025 12:48

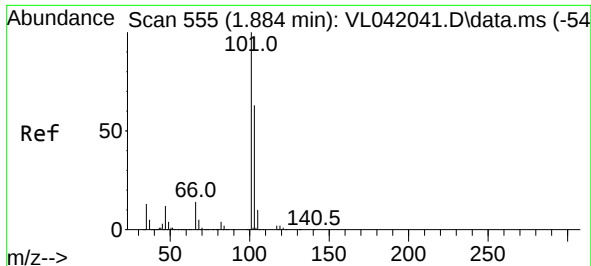
Tgt Ion: 43 Resp: 13387

Ion Ratio Lower Upper

43 100

57 42.1 39.4 59.0





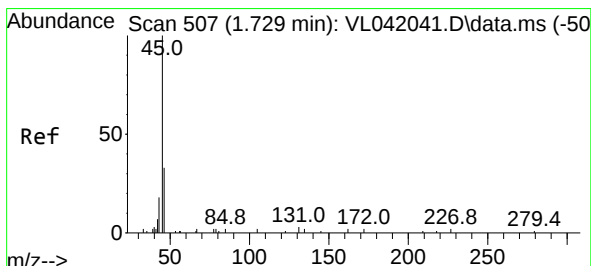
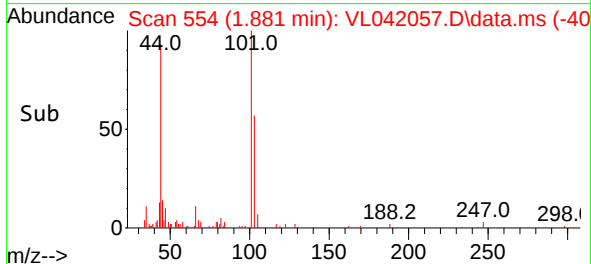
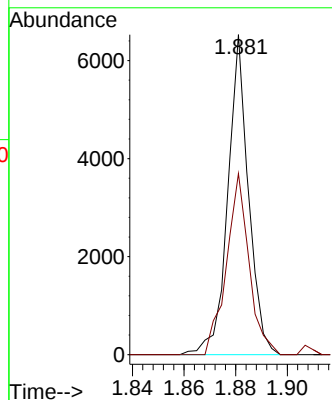
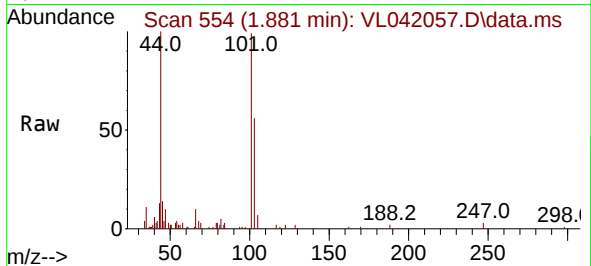
#11
Trichlorofluoromethane
Concen: 0.221 ppbv
RT: 1.881 min Scan# 505
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:101 Resp: 363
Ion Ratio Lower Upper
101 100
103 56.6 50.6 75.8

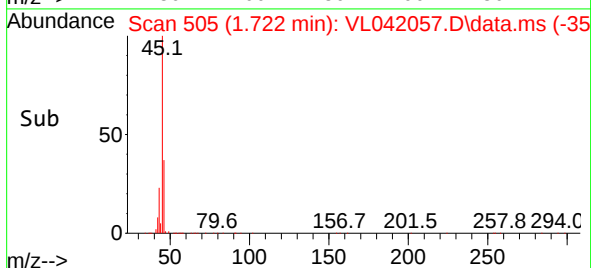
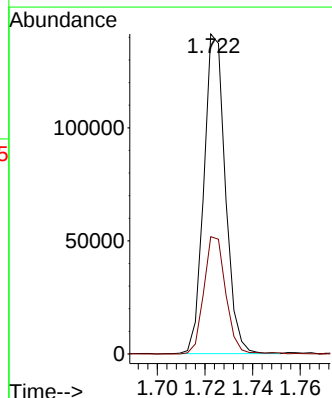
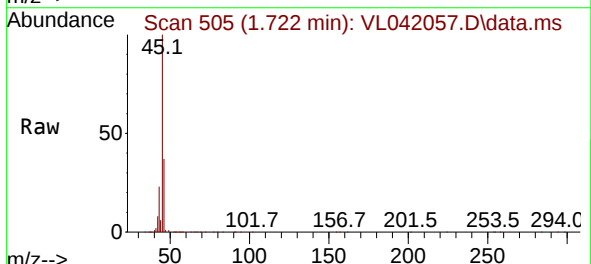
Manual Integrations
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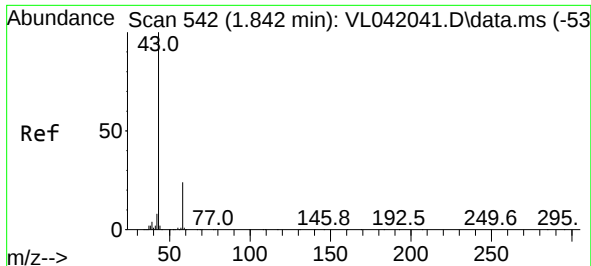
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#13
Ethanol
Concen: 149.589 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.006 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

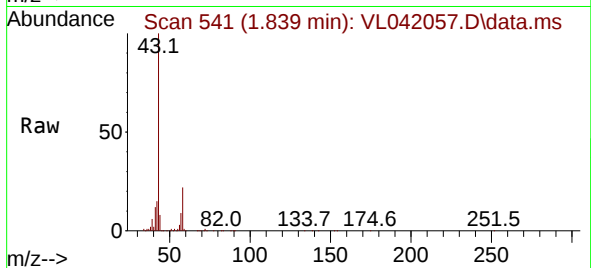
Tgt Ion: 45 Resp: 88540
Ion Ratio Lower Upper
45 100
46 37.7 17.1 68.3





#15
Acetone
Concen: 6.283 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

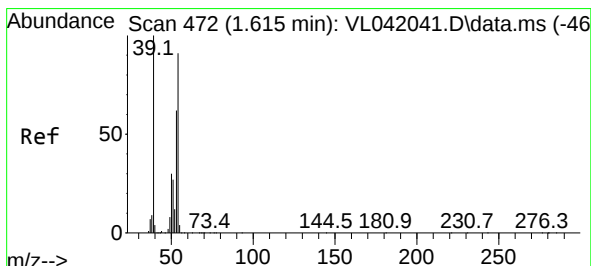
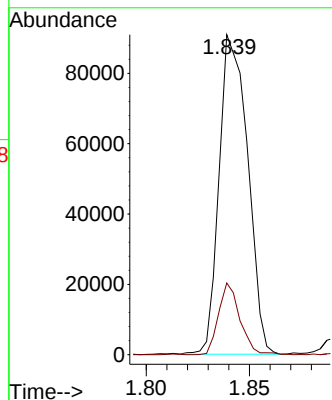
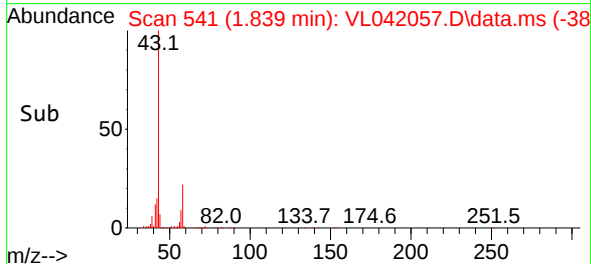
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 8737
Ion Ratio Lower Upper
43 100
58 17.0 20.7 31.1

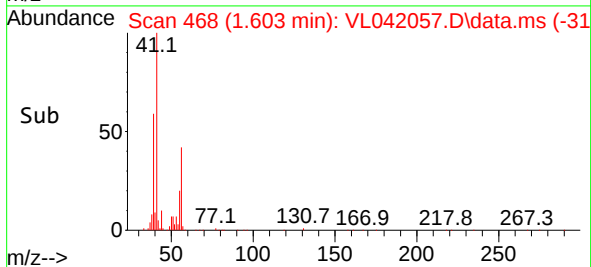
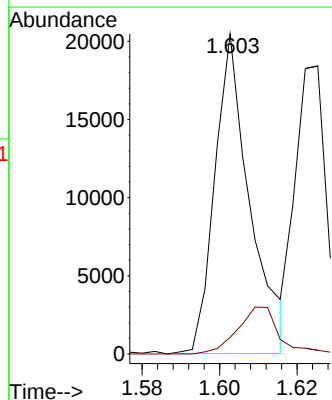
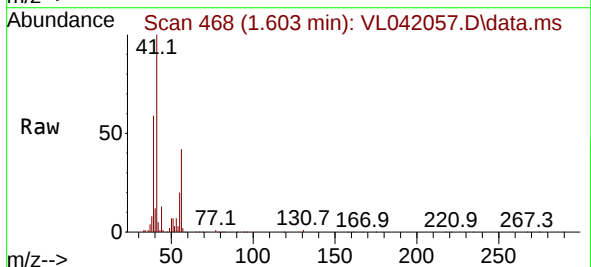
Manual Integrations
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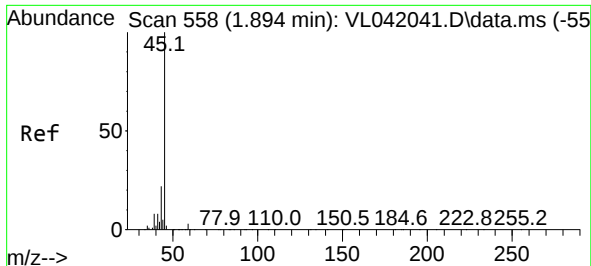
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#16
1,3-Butadiene
Concen: 1.980 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.013 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

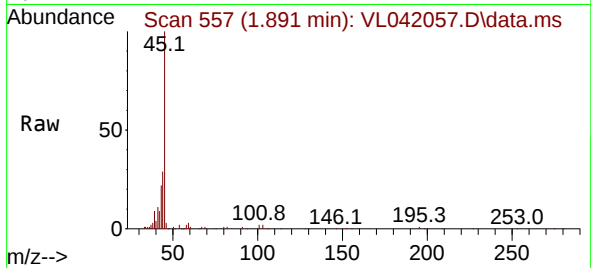
Tgt Ion: 39 Resp: 12815
Ion Ratio Lower Upper
39 100
54 18.2 59.6 89.4





#19
Isopropyl Alcohol
Concen: 1.720 ppbv
RT: 1.891 min Scan# 557
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

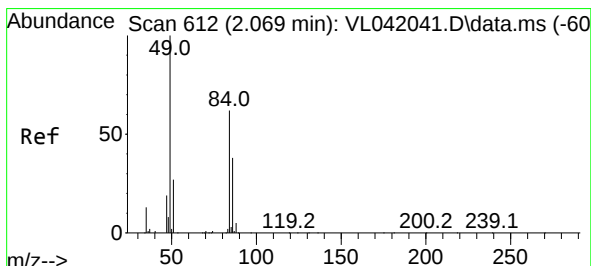
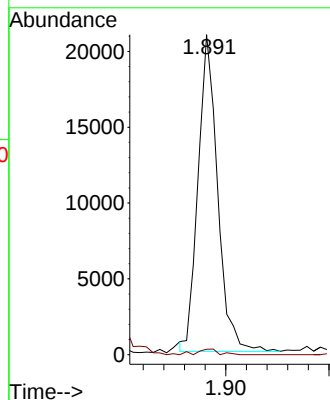
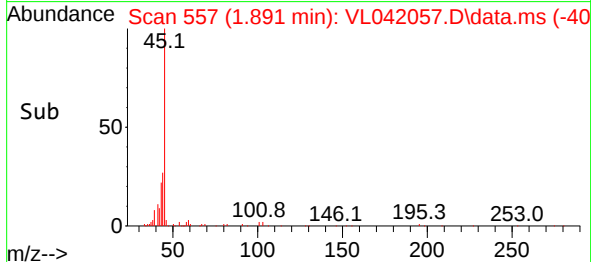
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp: 13738
Ion Ratio Lower Upper
45 100
58 107.9 35.3 52.9

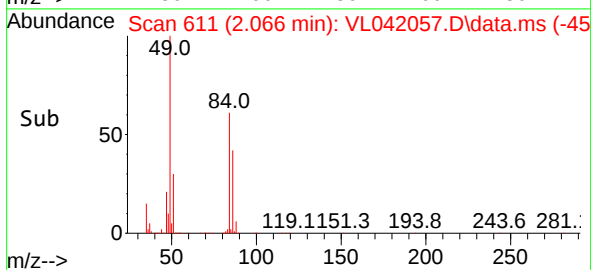
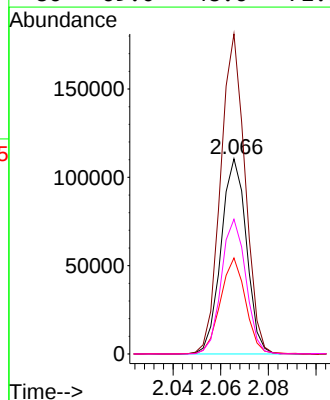
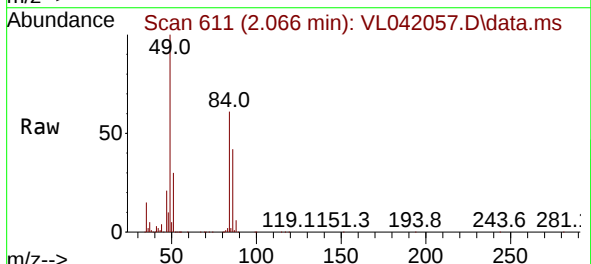
Manual Integrations
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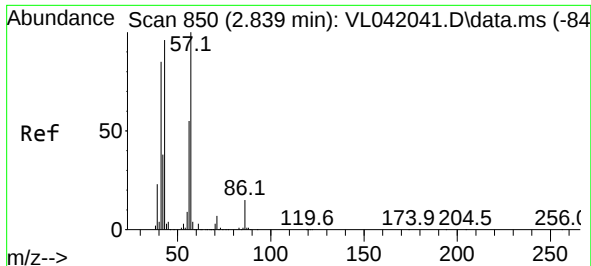
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#20
Methylene Chloride
Concen: 15.566 ppbv
RT: 2.066 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

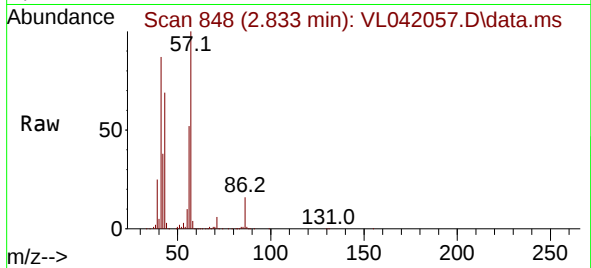
Tgt Ion: 84 Resp: 81880
Ion Ratio Lower Upper
84 100
49 163.9 130.0 195.0
51 49.0 37.4 56.0
86 69.0 48.6 72.8





#26
Hexane
Concen: 5.995 ppbv
RT: 2.833 min Scan# 84
Delta R.T. -0.006 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

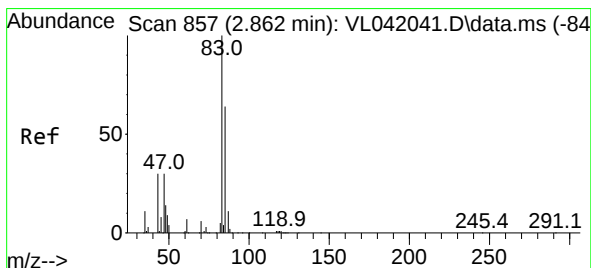
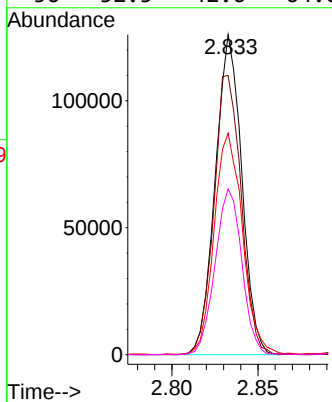
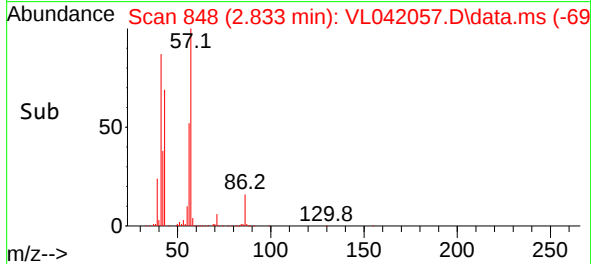
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 57 Resp: 13490
Ion Ratio Lower Upper
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41 90.7 70.6 106.0
43 75.1 199.4 299.0
56 52.5 42.6 64.0

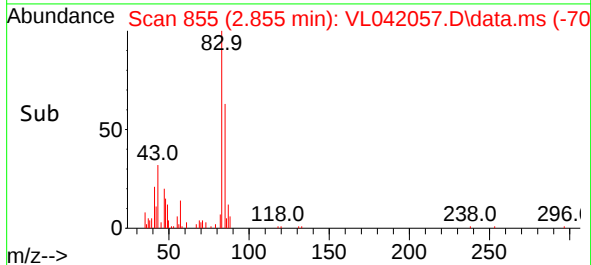
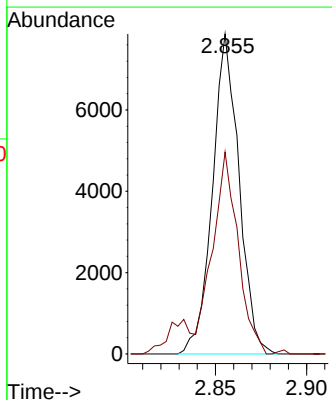
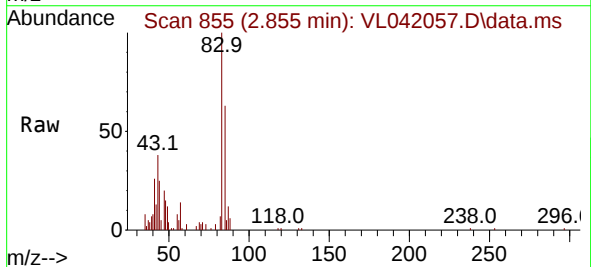
Manual Integrations
APPROVED

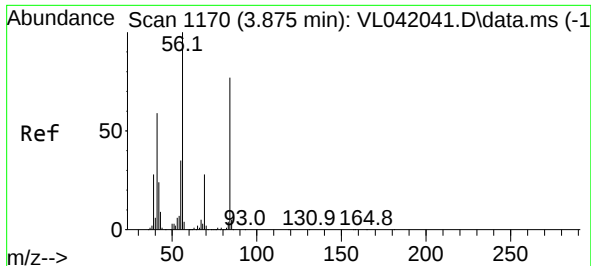
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#29
Chloroform
Concen: 0.263 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.006 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

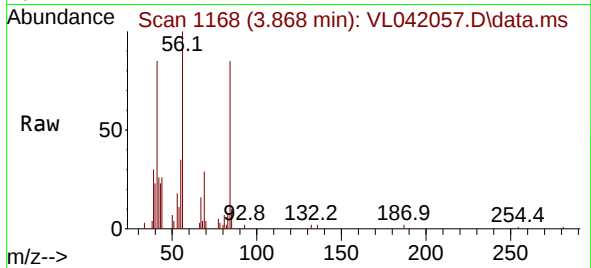
Tgt Ion: 83 Resp: 7960
Ion Ratio Lower Upper
83 100
85 62.4 51.2 76.8





#30
Cyclohexane
Concen: 0.264 ppbv
RT: 3.868 min Scan# 1168
Delta R.T. -0.006 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

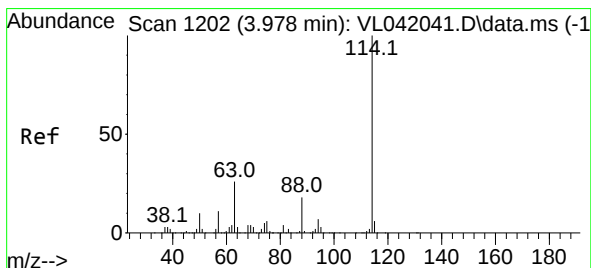
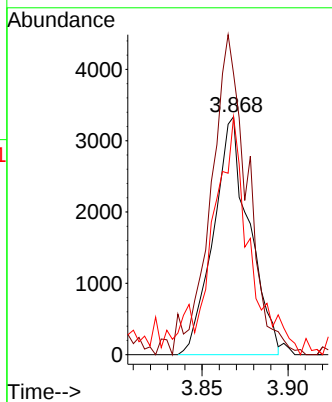
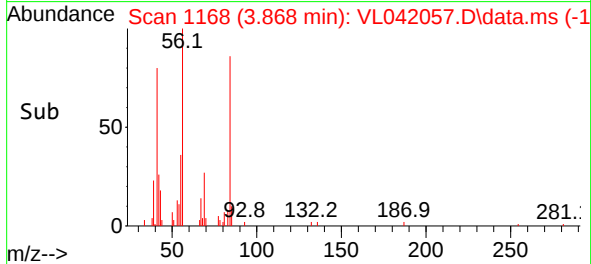
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 84 Resp: 4810
Ion Ratio Lower Upper
84 100
56 138.3 101.5 152.3
41 119.8 62.6 93.8

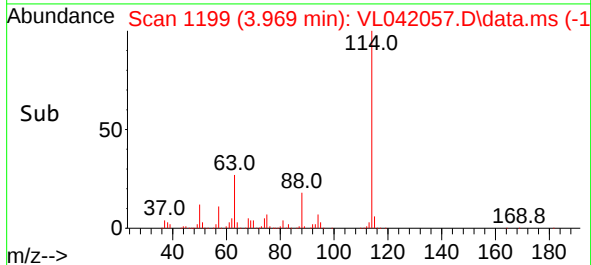
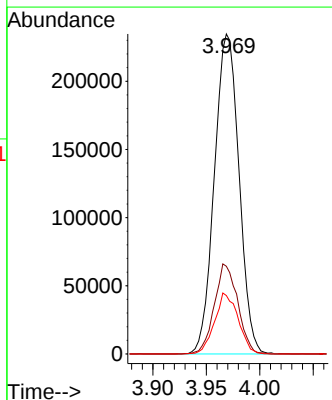
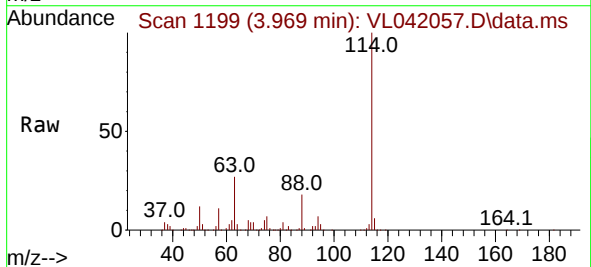
Manual Integrations
APPROVED

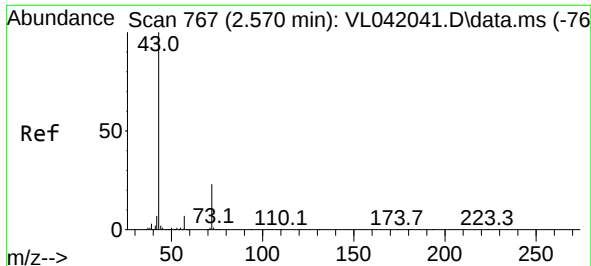
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.969 min Scan# 1199
Delta R.T. -0.010 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

Tgt Ion:114 Resp: 376491
Ion Ratio Lower Upper
114 100
63 26.7 20.1 30.1
88 18.2 14.3 21.5





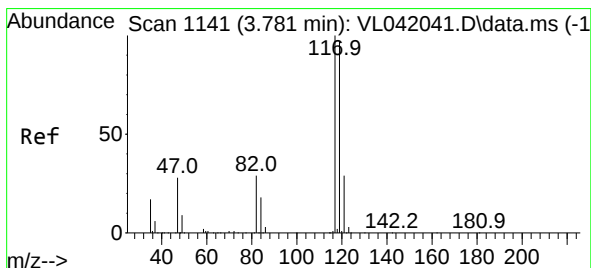
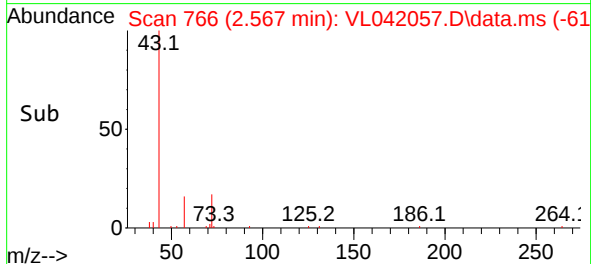
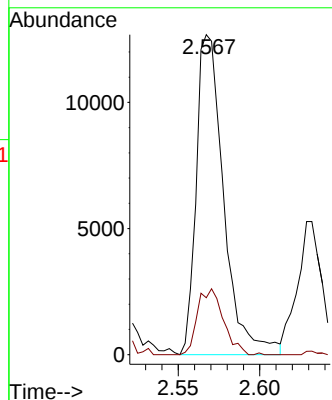
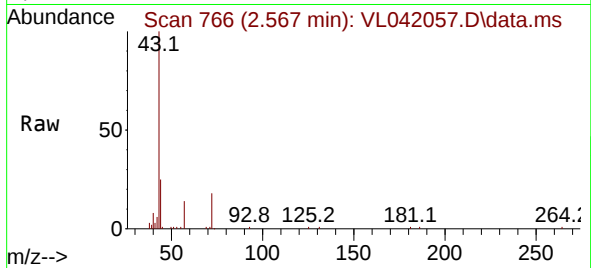
#34
2-Butanone
Concen: 0.505 ppbv
RT: 2.567 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 14820
Ion Ratio Lower Upper
43 100
72 19.5 18.5 27.7

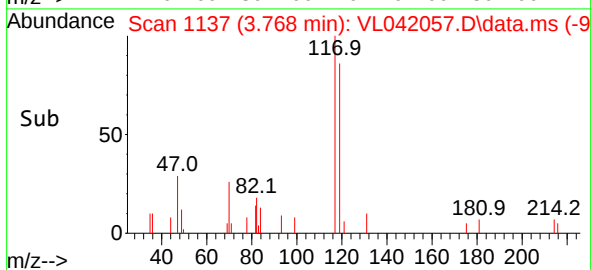
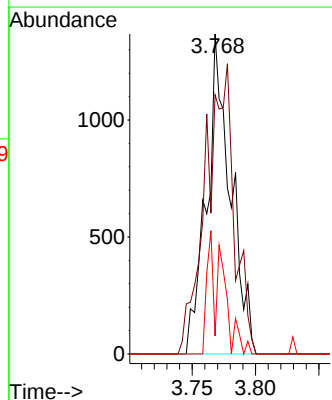
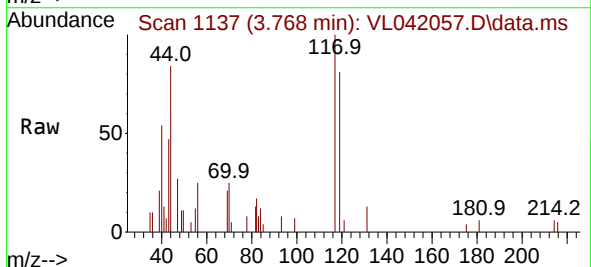
Manual Integrations
APPROVED

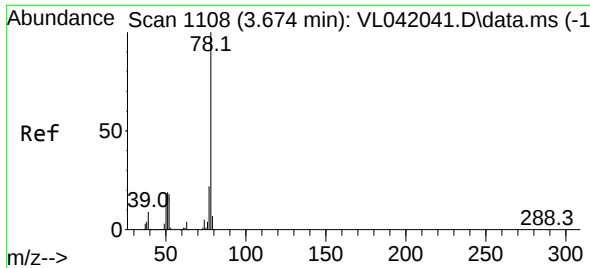
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.013 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

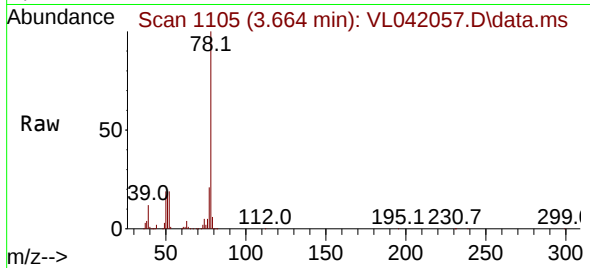
Tgt Ion:117 Resp: 1790
Ion Ratio Lower Upper
117 100
119 81.0 77.8 116.8
121 5.6 23.4 35.0#





#36
Benzene
Concen: 3.767 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. -0.010 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

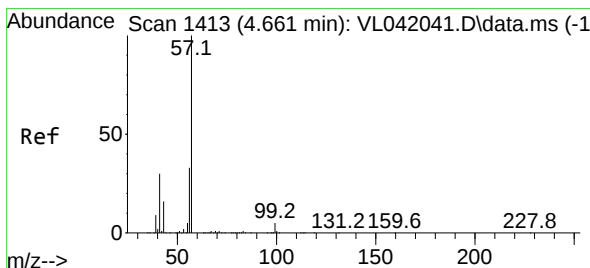
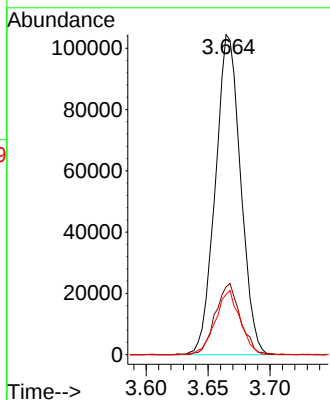
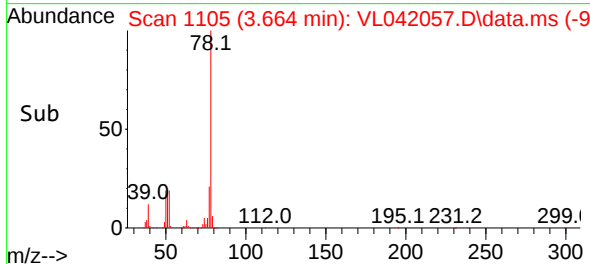
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 78 Resp: 14845
Ion Ratio Lower Upper
78 100
77 21.1 17.7 26.5
50 18.8 13.9 20.9

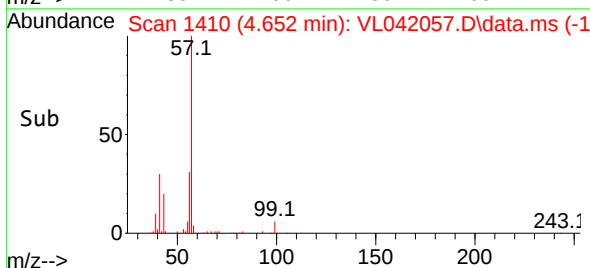
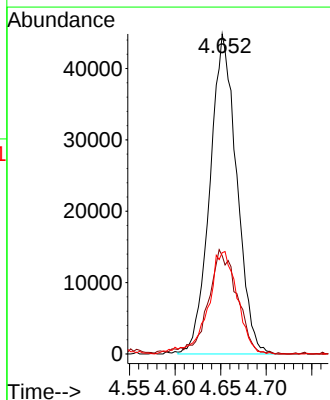
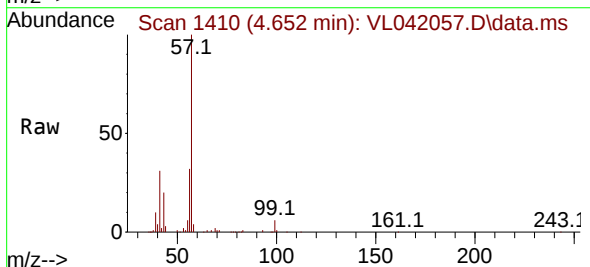
Manual Integrations
APPROVED

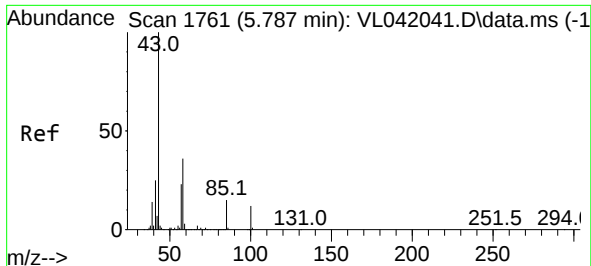
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#44
2,2,4-Trimethylpentane
Concen: 1.317 ppbv
RT: 4.652 min Scan# 1410
Delta R.T. -0.010 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

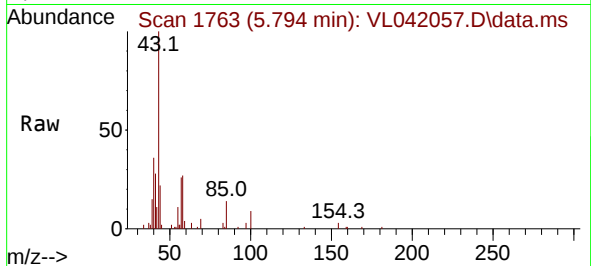
Tgt Ion: 57 Resp: 91605
Ion Ratio Lower Upper
57 100
41 35.8 24.4 36.6
56 35.2 26.5 39.7





#50
4-Methyl-2-Pentanone
Concen: 0.418 ppbv m
RT: 5.794 min Scan# 1761
Delta R.T. 0.007 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

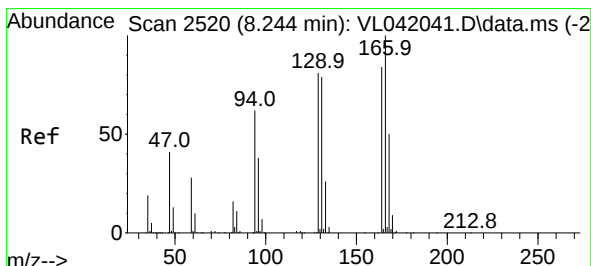
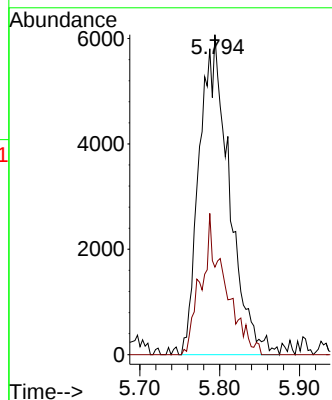
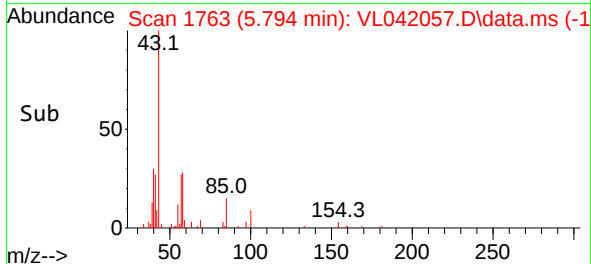
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 1585
Ion Ratio Lower Upper
43 100
58 35.3 29.3 43.9

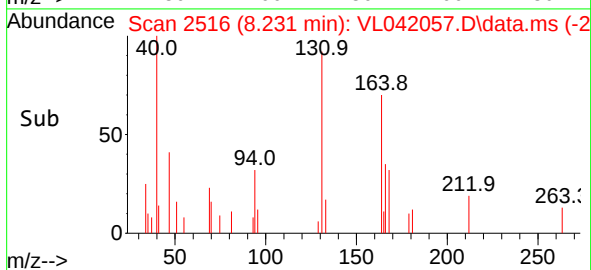
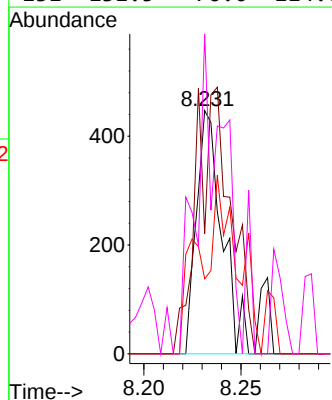
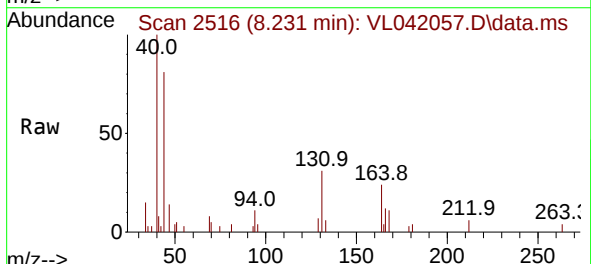
Manual Integrations
APPROVED

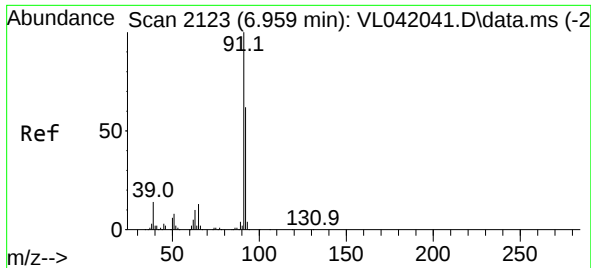
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#52
Tetrachloroethene
Concen: 0.034 ppbv m
RT: 8.231 min Scan# 2516
Delta R.T. -0.013 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

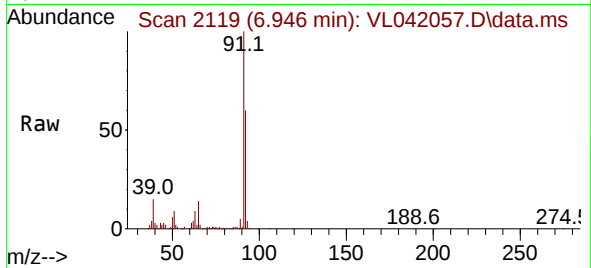
Tgt Ion:164 Resp: 459
Ion Ratio Lower Upper
164 100
166 49.4 95.7 143.5#
129 30.9 77.1 115.7#
131 131.5 76.0 114.0#





#53
Toluene
Concen: 5.677 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. -0.013 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

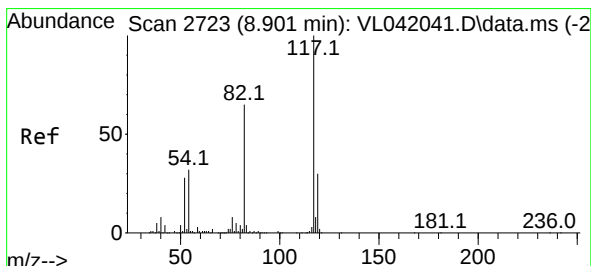
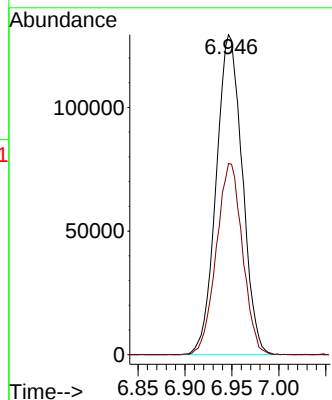
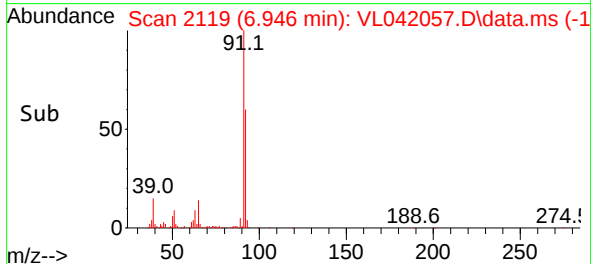
Instrument : MSVOA_L
ClientSampleId : IA1DUP



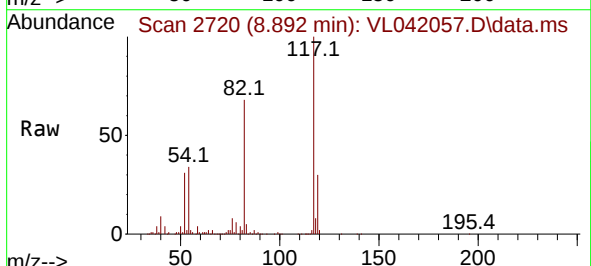
Tgt Ion: 91 Resp: 250049
Ion Ratio Lower Upper
91 100
92 59.9 49.0 73.6

Manual Integrations
APPROVED

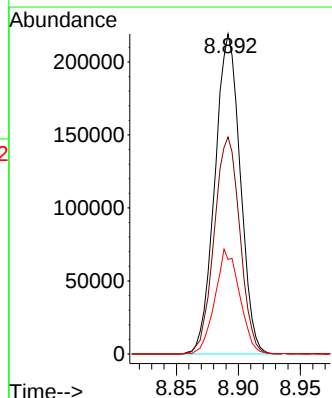
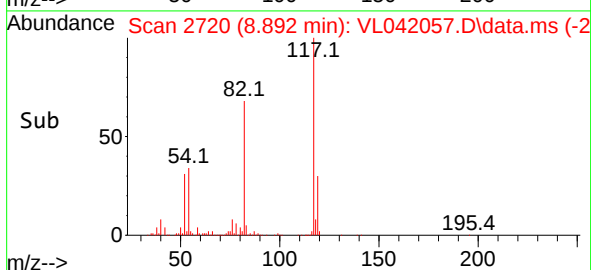
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

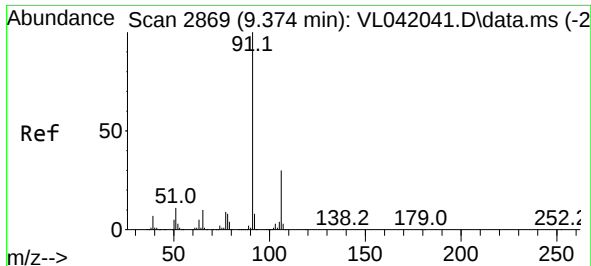


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2720
Delta R.T. -0.010 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48



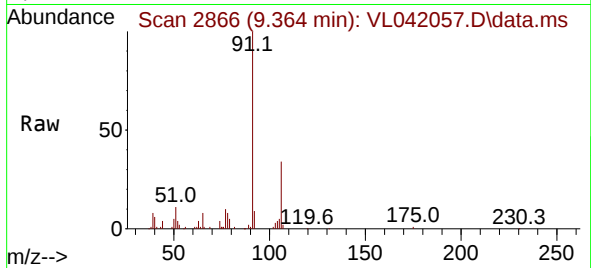
Tgt Ion:117 Resp: 312935
Ion Ratio Lower Upper
117 100
82 68.6 55.0 82.6
119 32.0 25.9 38.9





#58
Ethyl Benzene
Concen: 0.578 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. -0.010 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

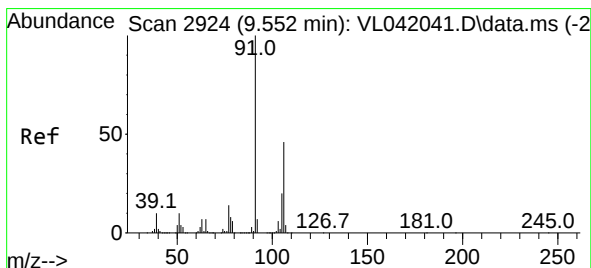
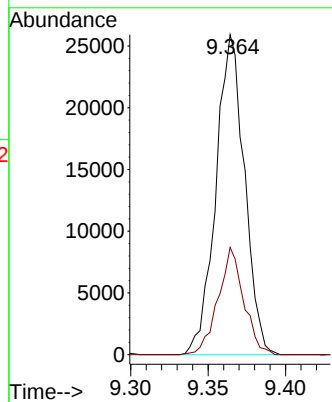
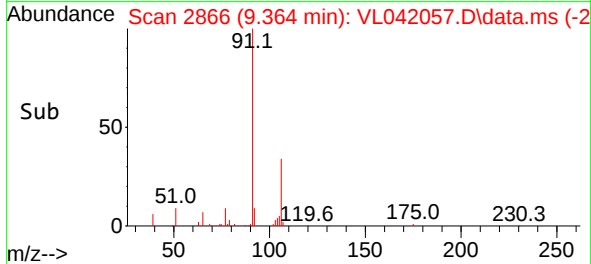
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 91 Resp: 33300
Ion Ratio Lower Upper
91 100
106 33.5 24.2 36.2

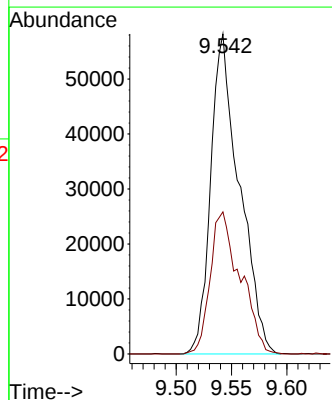
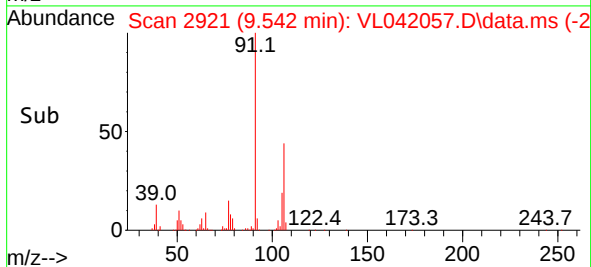
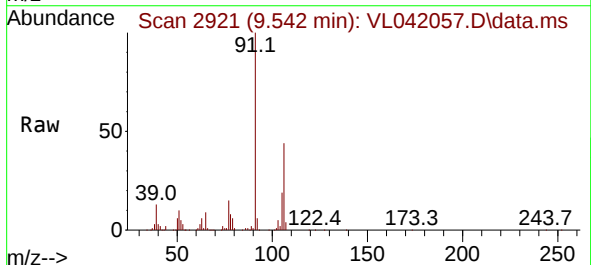
Manual Integrations
APPROVED

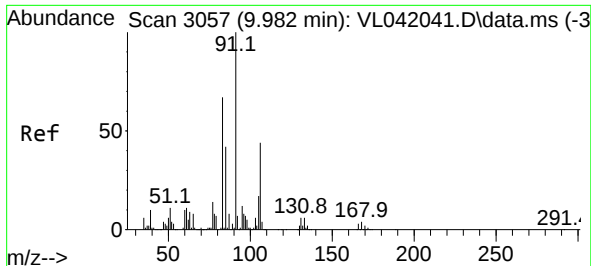
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#59
m/p-Xylene
Concen: 2.287 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.010 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

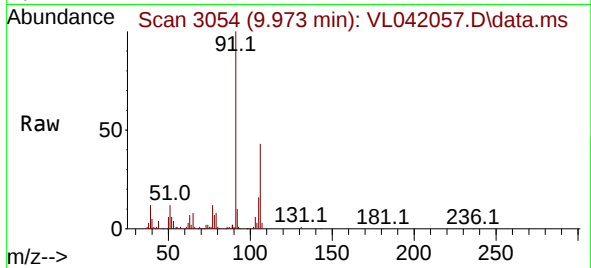
Tgt Ion: 91 Resp: 104874
Ion Ratio Lower Upper
91 100
106 46.8 0.0 0.0#





#60
o-Xylene
Concen: 0.733 ppbv
RT: 9.973 min Scan# 3057
Delta R.T. -0.010 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

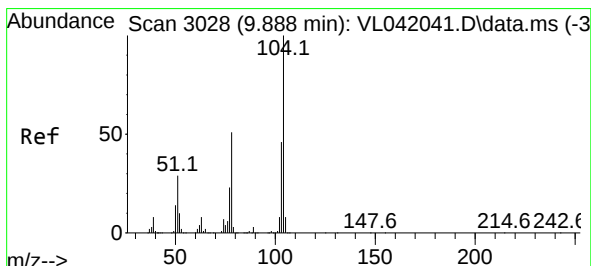
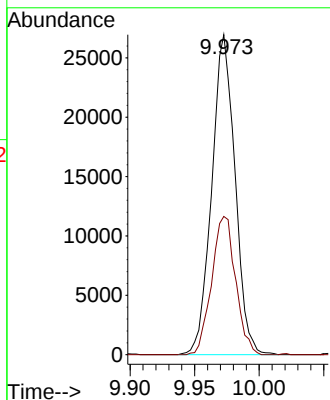
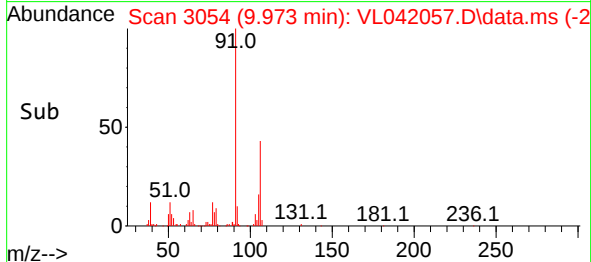
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



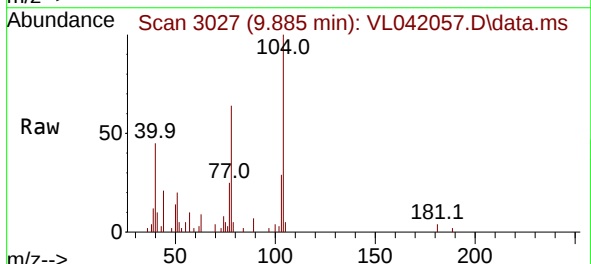
Tgt Ion: 91 Resp: 33778
Ion Ratio Lower Upper
91 100
106 44.3 22.3 66.8

Manual Integrations
APPROVED

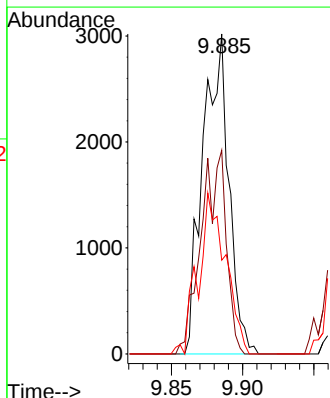
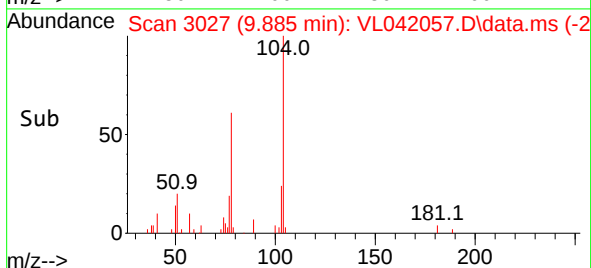
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

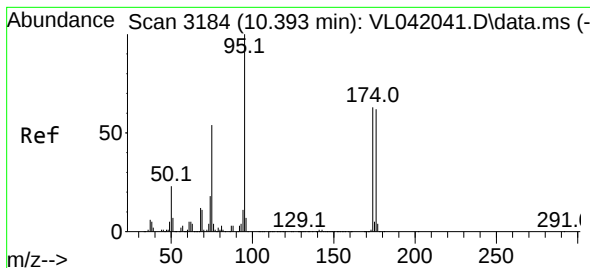


#61
Styrene
Concen: 0.177 ppbv m
RT: 9.885 min Scan# 3027
Delta R.T. -0.003 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48



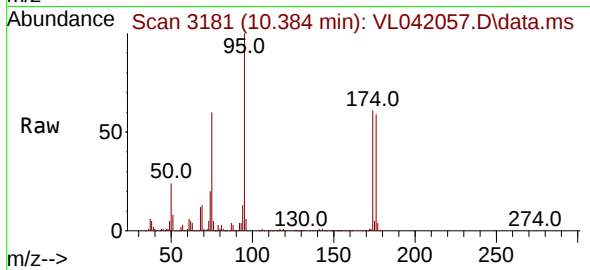
Tgt Ion:104 Resp: 3828
Ion Ratio Lower Upper
104 100
78 0.0 41.0 61.4#
103 52.6 37.0 55.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.232 ppbv
RT: 10.384 min Scan# 3184
Delta R.T. -0.009 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

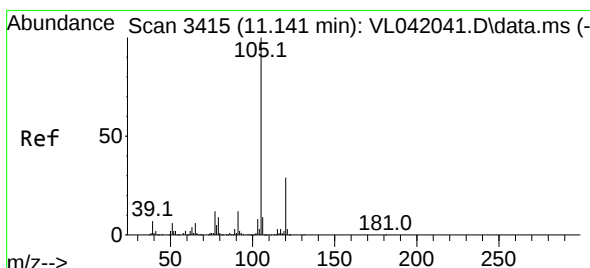
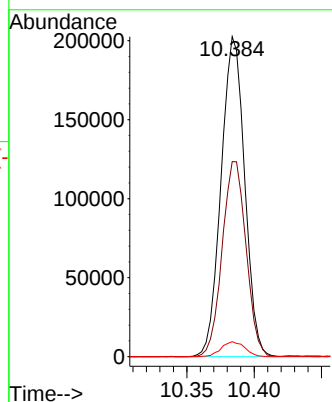
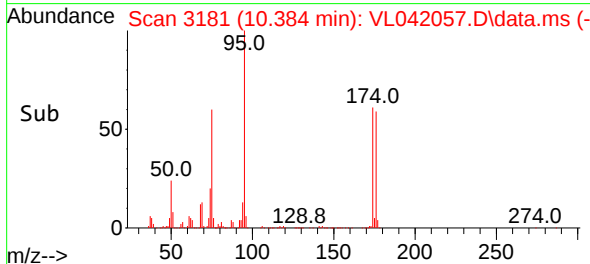
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 95 Resp: 246340
Ion Ratio Lower Upper
95 100
174 61.9 51.8 77.6
175 4.7 3.9 5.9

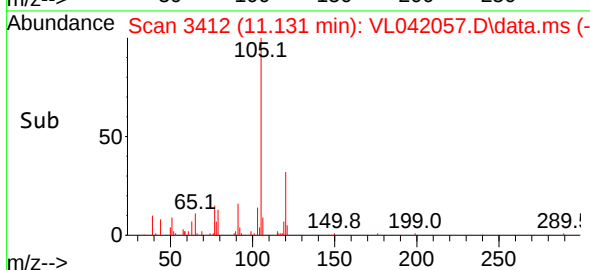
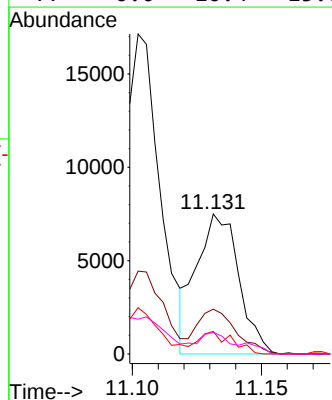
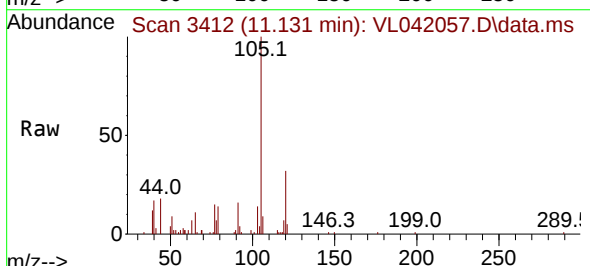
Manual Integrations
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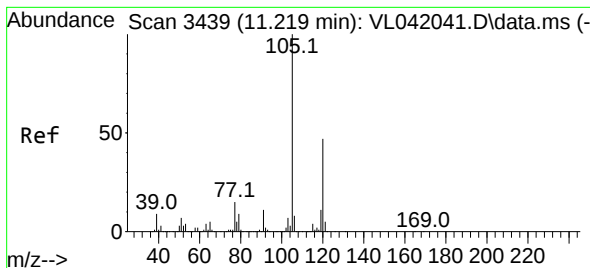
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#72
4-Ethyltoluene
Concen: 0.152 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. -0.010 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

Tgt Ion:105 Resp: 8542
Ion Ratio Lower Upper
105 100
120 0.0 24.1 36.1#
91 0.0 10.2 15.4#
77 0.0 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.135 ppbv

RT: 11.212 min Scan# 3439

Delta R.T. -0.006 min

Lab File: VL042057.D

Acq: 26 Feb 2025 12:48

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:105 Resp: 659

Ion Ratio Lower Upper

105 100

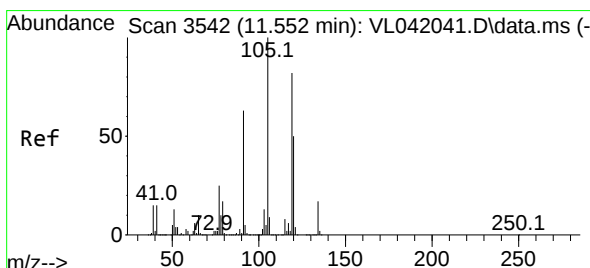
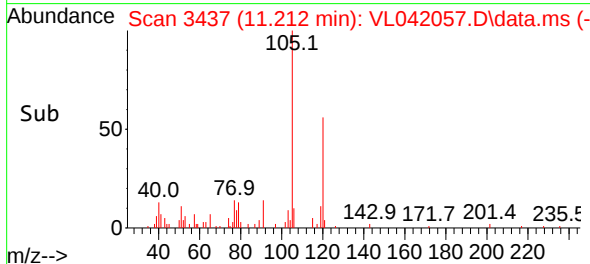
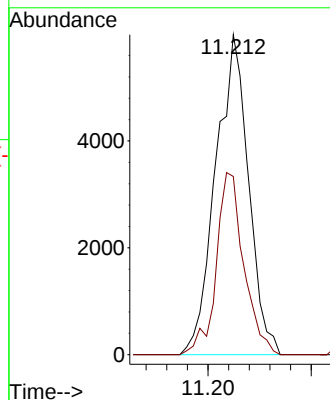
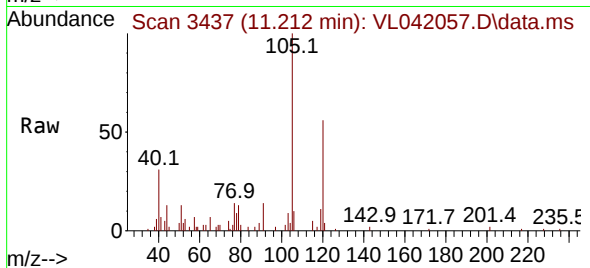
120 59.6 37.4 56.0

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#74

1,2,4-Trimethylbenzene

Concen: 0.369 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. -0.009 min

Lab File: VL042057.D

Acq: 26 Feb 2025 12:48

Tgt Ion:105 Resp: 20277

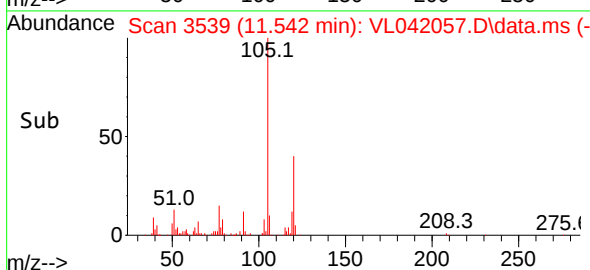
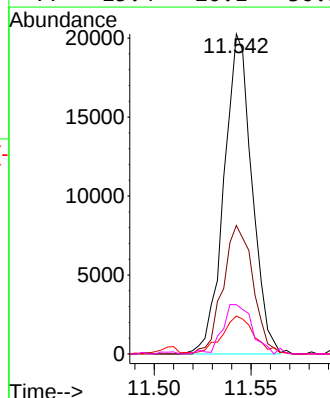
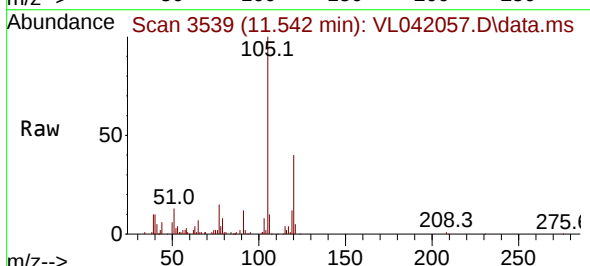
Ion Ratio Lower Upper

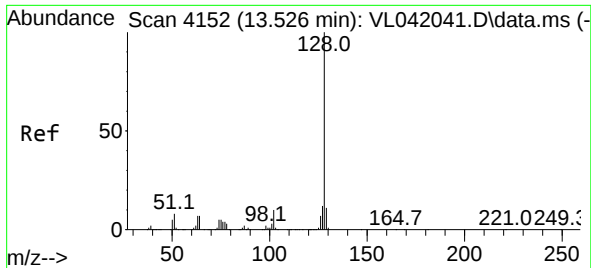
105 100

120 40.2 40.2 60.2

91 11.4 51.4 77.2#

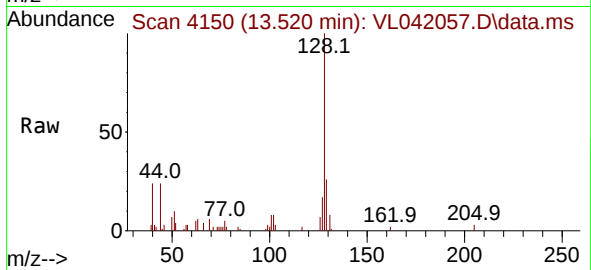
77 15.4 20.1 30.1#





#79
Naphthalene
Concen: 0.110 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. -0.006 min
Lab File: VL042057.D
Acq: 26 Feb 2025 12:48

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:128 Resp: 4130
Ion Ratio Lower Upper
128 100
127 16.7 9.8 14.6
129 26.3 8.6 12.8

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