

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042321.D
 Acq On : 11 Apr 2025 15:36
 Operator : SY/MD
 Sample : Q1665-18
 Misc : 400mL/MSVOA_L
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-3-3242025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 23:01:40 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	184452	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	454008	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	391031	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	301415	9.386	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	11984	0.440	ppbv	90
3) Chlorodifluoromethane	1.473	51	5086m	0.183	ppbv	
4) Chloromethane	1.531	50	6779	0.609	ppbv	99
9) Propene	1.486	41	63490m	4.979	ppbv	
10) Heptane	4.975	43	6471m	0.191	ppbv	
11) Trichlorofluoromethane	1.877	101	5150	0.194	ppbv	94
13) Ethanol	1.722	45	1721714	1428.217	ppbv	97
15) Acetone	1.832	43	2336283	90.565	ppbv #	69
17) tert-Butyl alcohol	2.043	59	14483m	0.451	ppbv	
19) Isopropyl Alcohol	1.887	45	1254135	86.165	ppbv #	41
20) Methylene Chloride	2.062	84	8636	0.899	ppbv #	76
26) Hexane	2.826	57	70462	2.725	ppbv	92
29) Chloroform	2.848	83	55947	1.478	ppbv	100
34) 2-Butanone	2.557	43	746435	22.673	ppbv	99
35) Carbon Tetrachloride	3.764	117	2892m	0.082	ppbv	
36) Benzene	3.654	78	30723	0.683	ppbv	95
50) 4-Methyl-2-Pentanone	5.768	43	23404m	0.449	ppbv	
52) Tetrachloroethene	8.225	164	653m	0.037	ppbv	
53) Toluene	6.933	91	28699	0.538	ppbv	98
59) m/p-Xylene	9.529	91	11090m	0.200	ppbv	
60) o-Xylene	9.959	91	6064m	0.109	ppbv	
69) p-Isopropyltoluene	11.927	119	10463	0.114	ppbv #	93
74) 1,2,4-Trimethylbenzene	11.536	105	10882	0.156	ppbv #	68

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

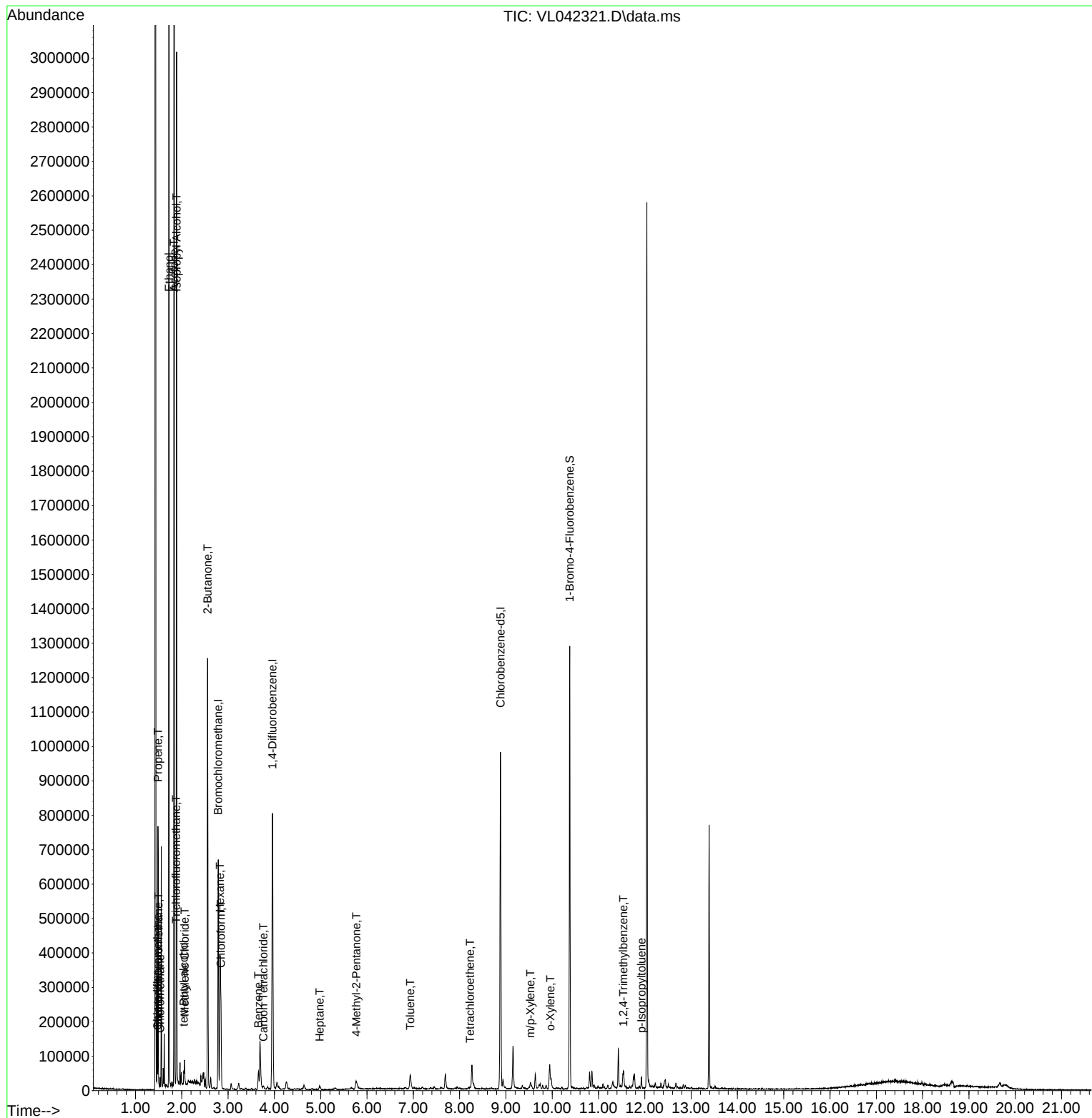
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
Data File : VL042321.D
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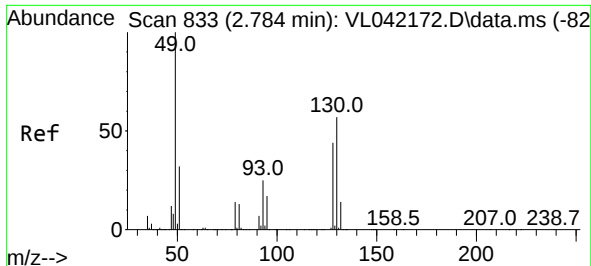
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Quant Time: Apr 11 23:01:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
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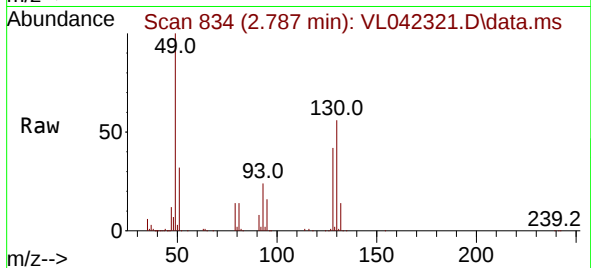
Reviewed By : Semsettin Yesilyurt 04/16/2025
Supervised By : Mahesh Dadoda 04/17/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

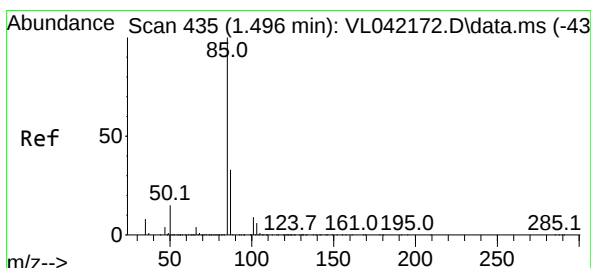
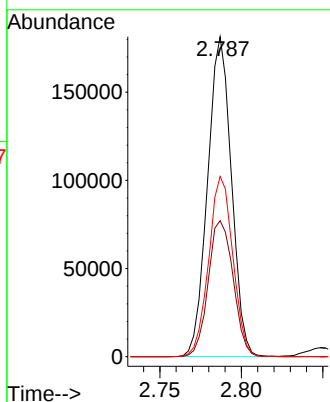
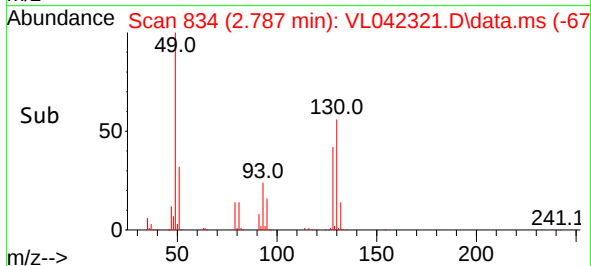
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



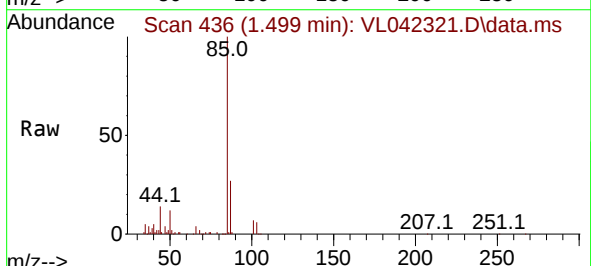
Tgt Ion: 49 Resp: 184452
Ion Ratio Lower Upper
49 100
128 44.5 22.9 68.5
130 57.1 28.8 86.4

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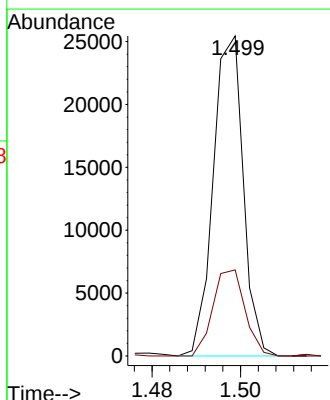
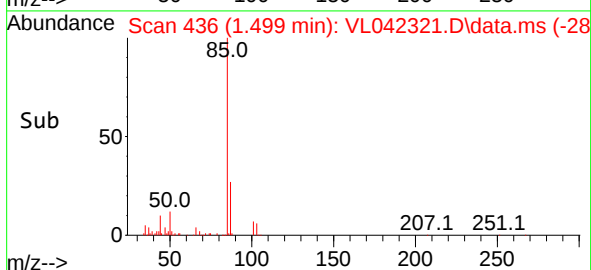
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

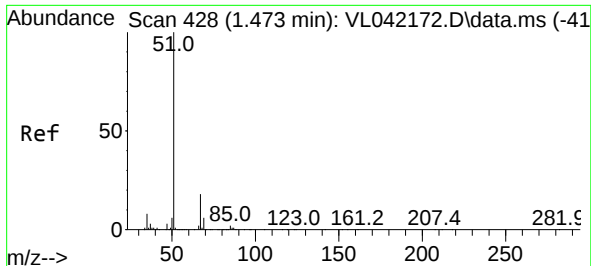


#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



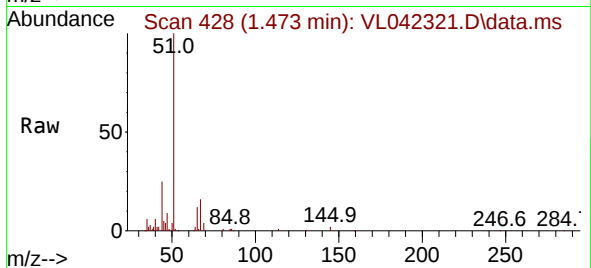
Tgt Ion: 85 Resp: 11984
Ion Ratio Lower Upper
85 100
87 26.9 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.183 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

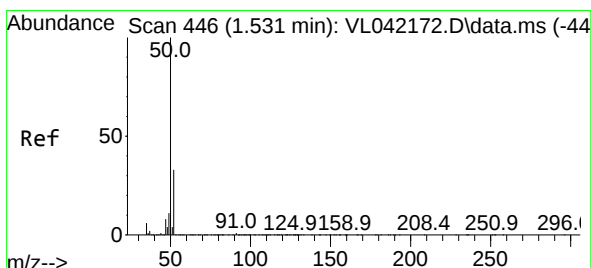
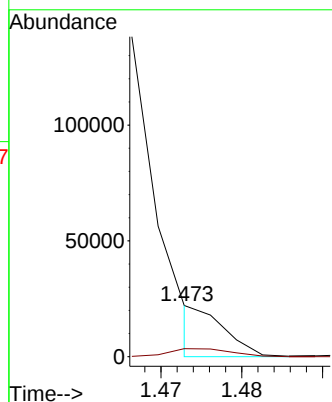
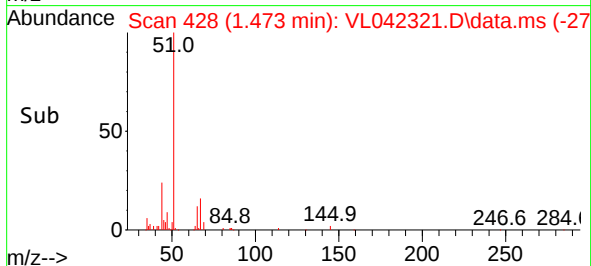
Instrument :
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ClientSampleId :
IA-B10-3-3242025



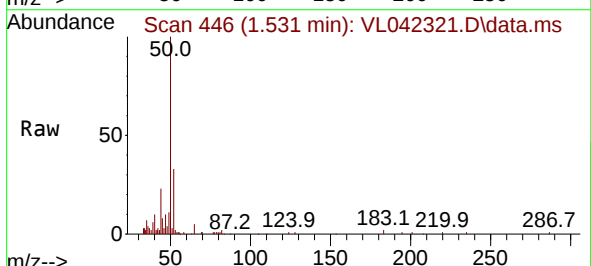
Tgt Ion: 51 Resp: 5080
Ion Ratio Lower Upper
51 100
67 37.0 15.0 22.6

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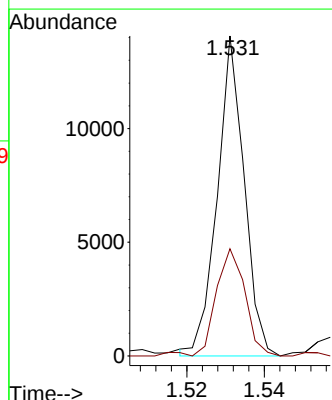
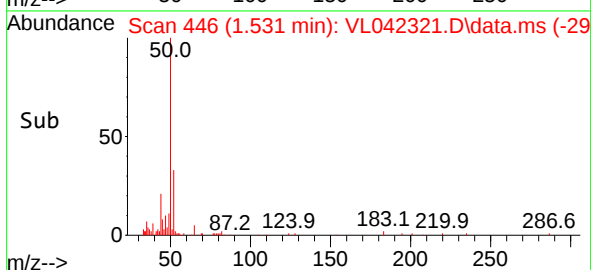
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

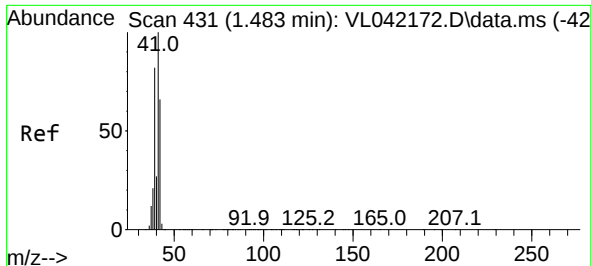


#4
Chloromethane
Concen: 0.609 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



Tgt Ion: 50 Resp: 6779
Ion Ratio Lower Upper
50 100
52 33.0 26.1 39.1





#9

Propene

Concen: 4.979 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042321.D

Acq: 11 Apr 2025 15:36

Instrument :

MSVOA_L

ClientSampleId :

LA-B10-3-3242025

Tgt Ion: 41 Resp: 63490

Ion Ratio Lower Upper

41 100

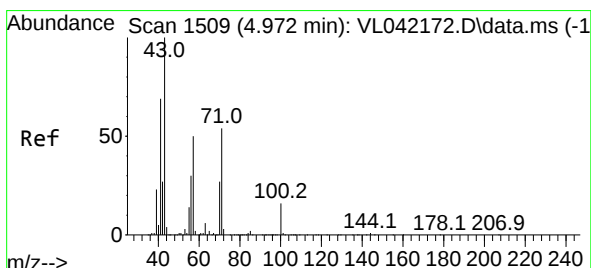
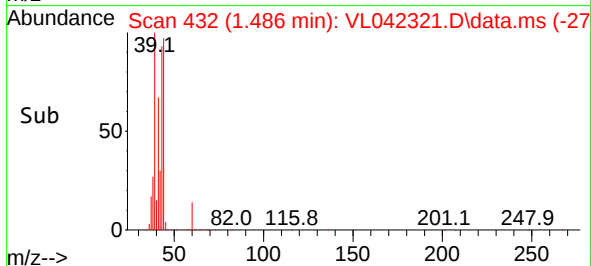
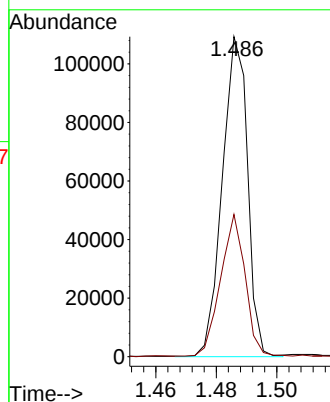
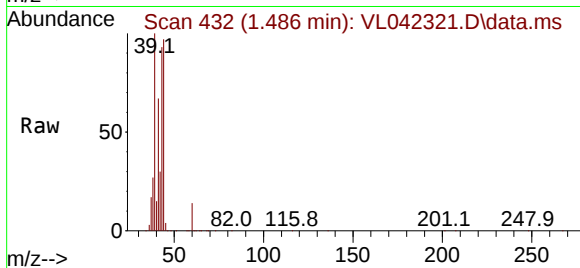
42 119.1 55.4 83.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#10

Heptane

Concen: 0.191 ppbv m

RT: 4.975 min Scan# 1510

Delta R.T. 0.003 min

Lab File: VL042321.D

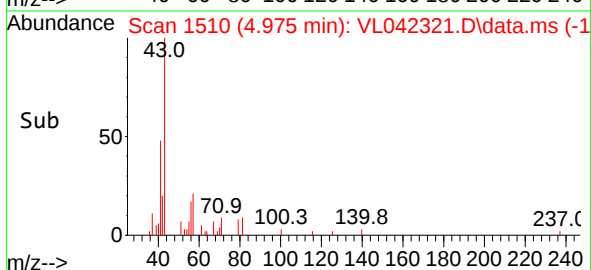
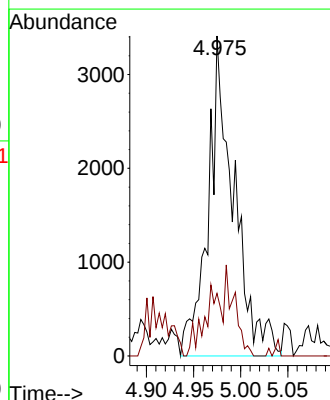
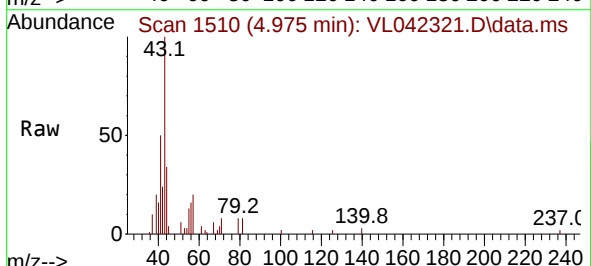
Acq: 11 Apr 2025 15:36

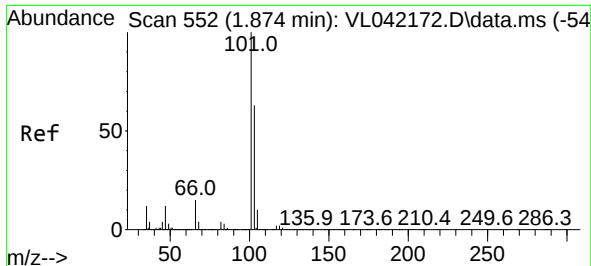
Tgt Ion: 43 Resp: 6471

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.2





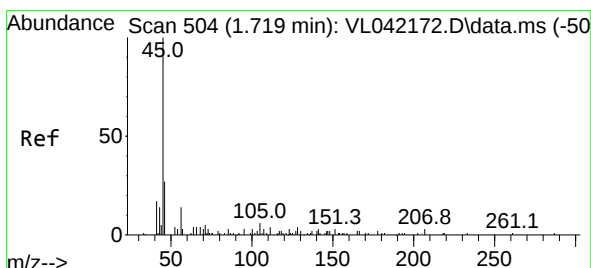
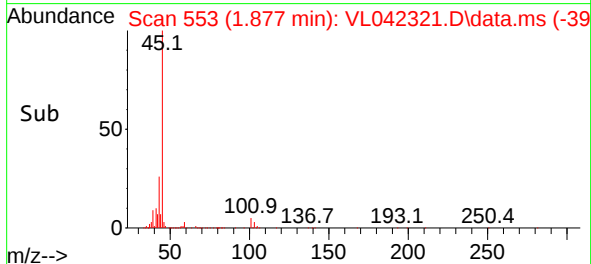
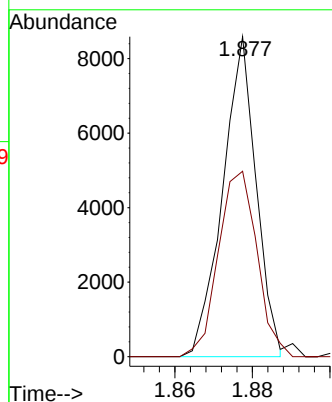
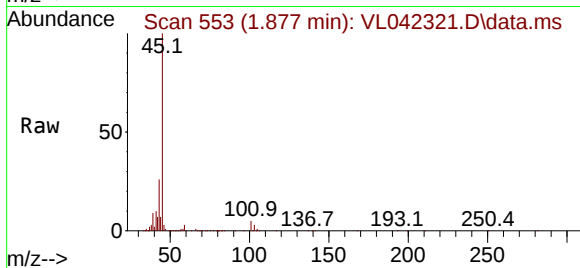
#11
Trichlorofluoromethane
Concen: 0.194 ppbv
RT: 1.877 min Scan# 515
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion:101 Resp: 5150
Ion Ratio Lower Upper
101 100
103 58.0 50.2 75.2

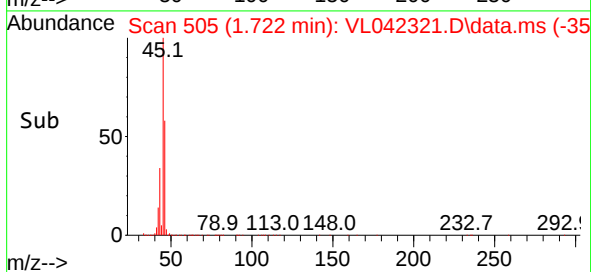
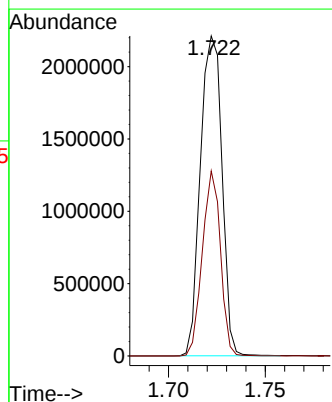
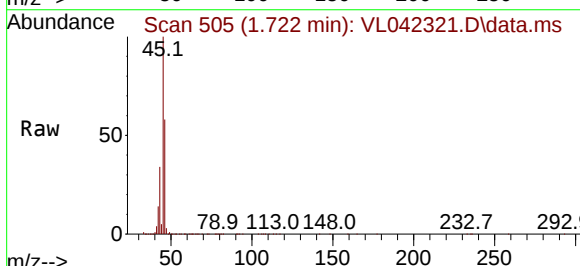
Manual Integrations
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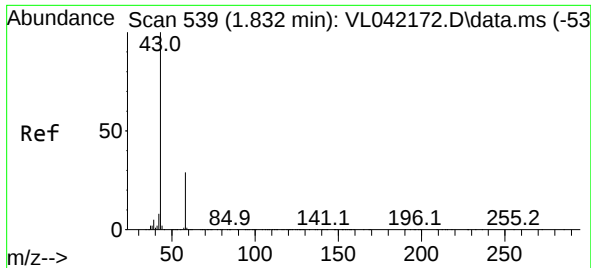
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#13
Ethanol
Concen: 1428.217 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

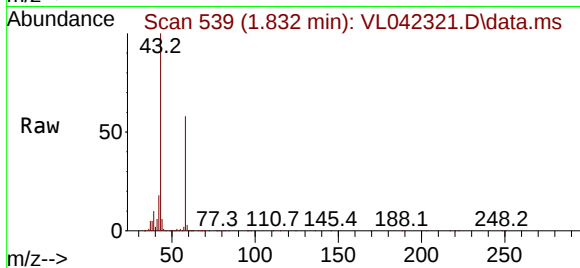
Tgt Ion: 45 Resp: 1721714
Ion Ratio Lower Upper
45 100
46 48.6 20.2 80.8





#15
Acetone
Concen: 90.565 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

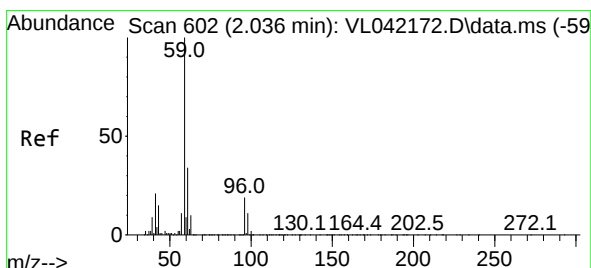
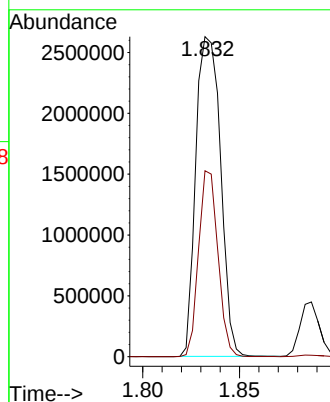
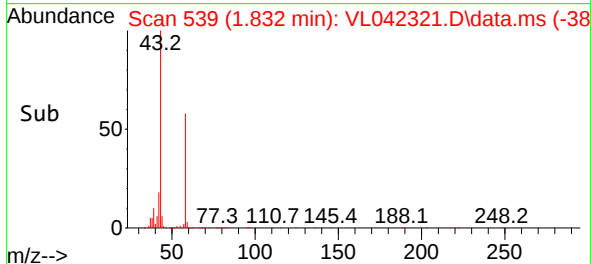
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



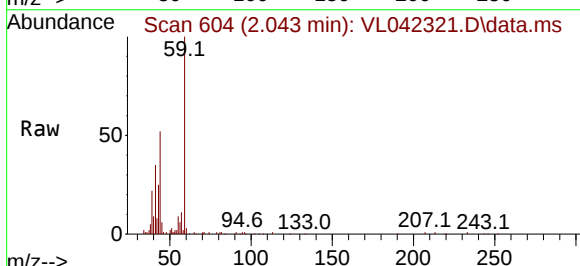
Tgt Ion: 43 Resp: 2336283
Ion Ratio Lower Upper
43 100
58 45.7 23.2 34.8

Manual Integrations
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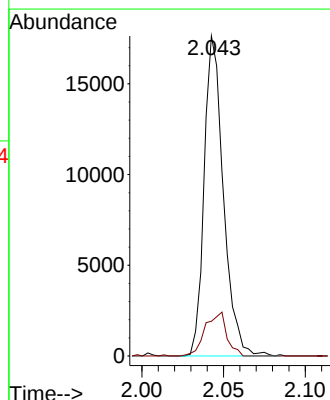
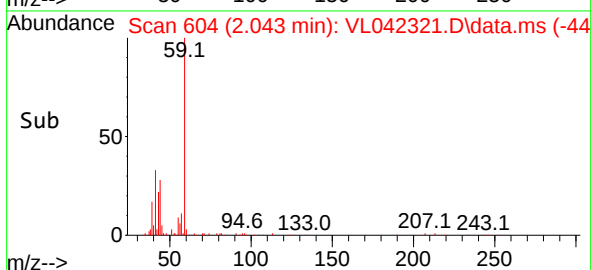
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

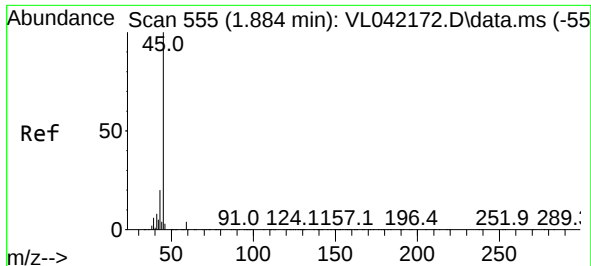


#17
tert-Butyl alcohol
Concen: 0.451 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



Tgt Ion: 59 Resp: 14483
Ion Ratio Lower Upper
59 100
57 33.0 8.9 13.3





#19

Isopropyl Alcohol

Concen: 86.165 ppbv

RT: 1.887 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042321.D

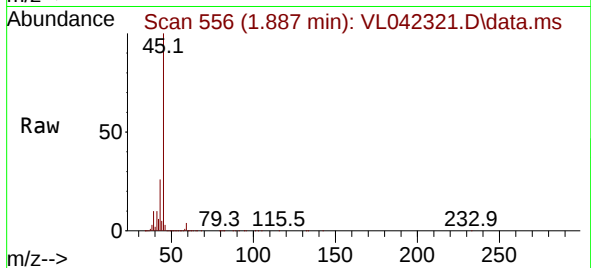
Acq: 11 Apr 2025 15:36

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-3-3242025



Tgt Ion: 45 Resp: 125413

Ion Ratio Lower Upper

45 100

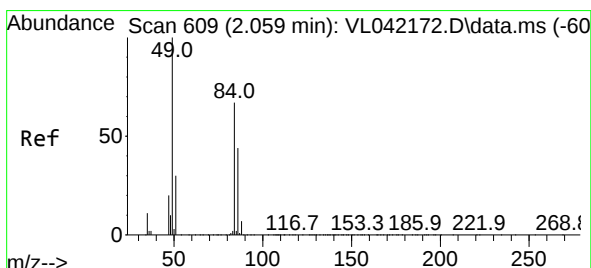
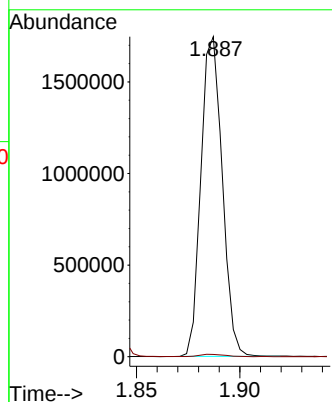
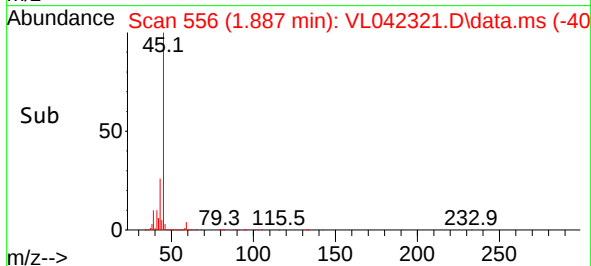
58 85.1 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#20

Methylene Chloride

Concen: 0.899 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042321.D

Acq: 11 Apr 2025 15:36

Tgt Ion: 84 Resp: 8636

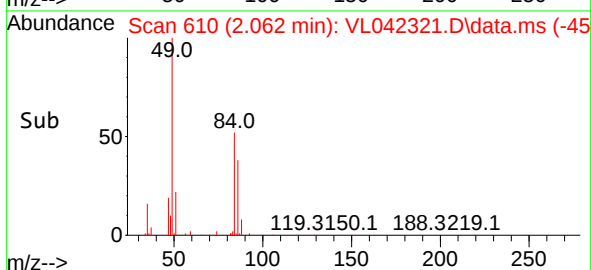
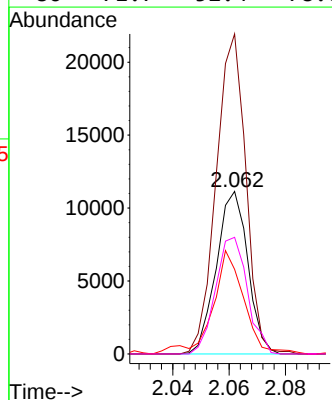
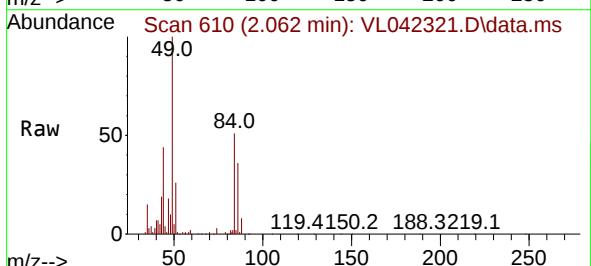
Ion Ratio Lower Upper

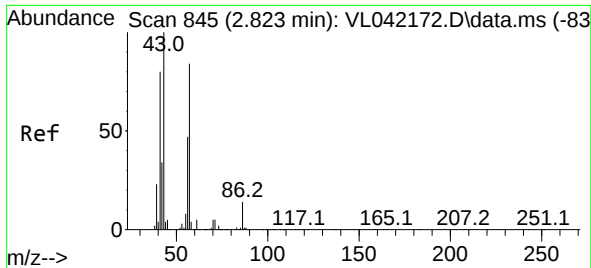
84 100

49 196.9 120.2 180.4

51 49.7 37.4 56.0

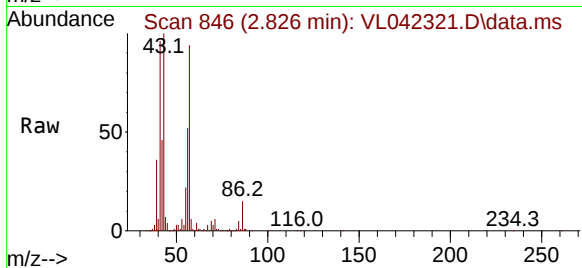
86 71.7 52.4 78.6





#26
Hexane
Concen: 2.725 ppbv
RT: 2.826 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

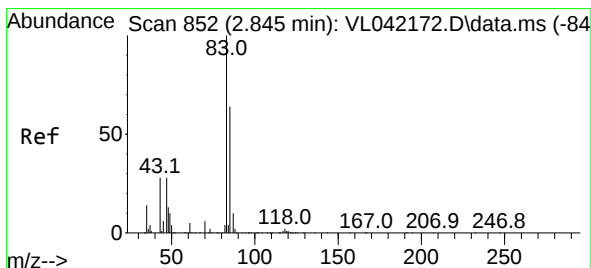
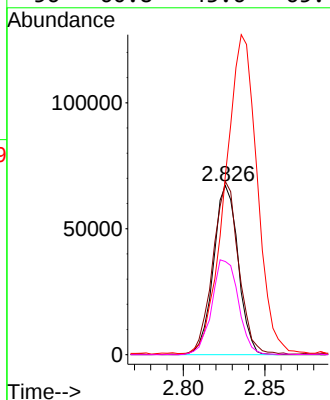
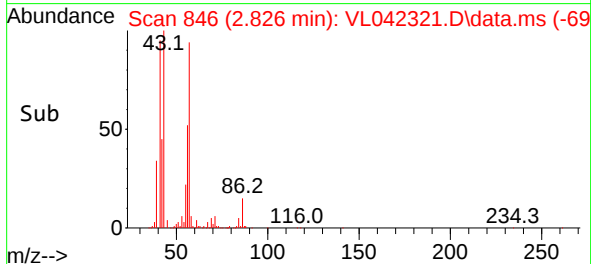
Instrument :
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Tgt Ion: 57 Resp: 70462
Ion Ratio Lower Upper
57 100
41 107.0 76.6 114.8
43 249.4 207.8 311.8
56 60.8 43.6 65.4

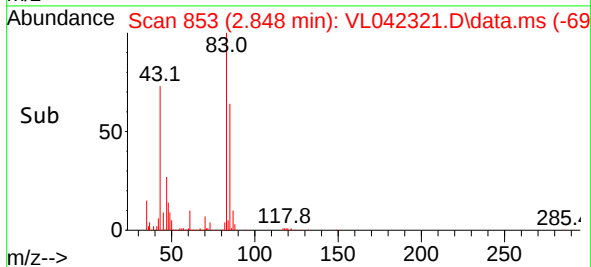
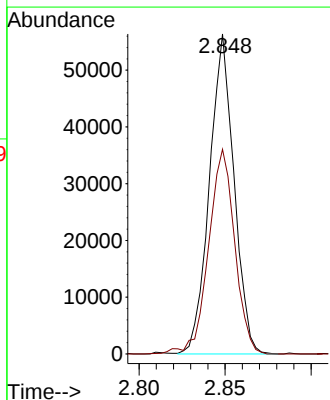
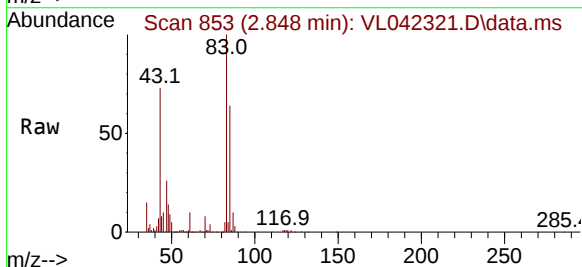
Manual Integrations
APPROVED

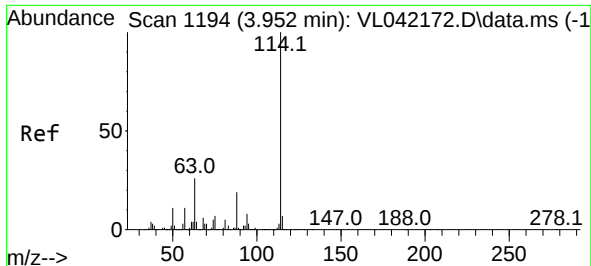
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#29
Chloroform
Concen: 1.478 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

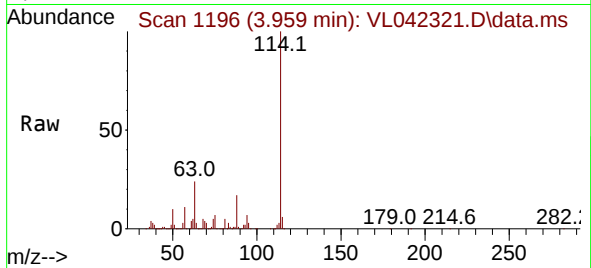
Tgt Ion: 83 Resp: 55947
Ion Ratio Lower Upper
83 100
85 64.0 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

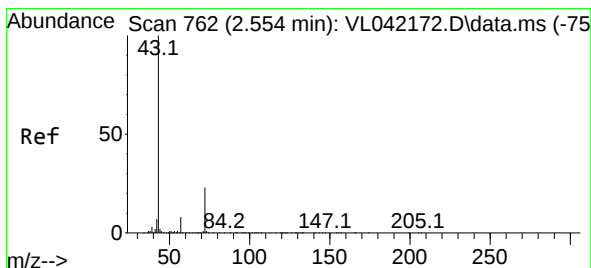
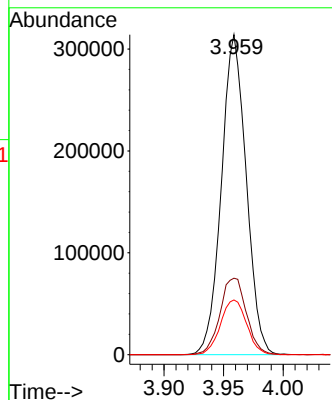
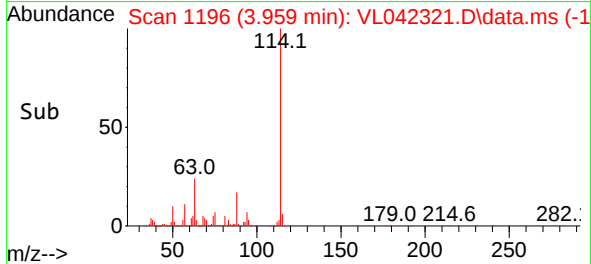
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



Tgt Ion:114 Resp: 454008
Ion Ratio Lower Upper
114 100
63 25.7 20.7 31.1
88 18.1 15.0 22.4

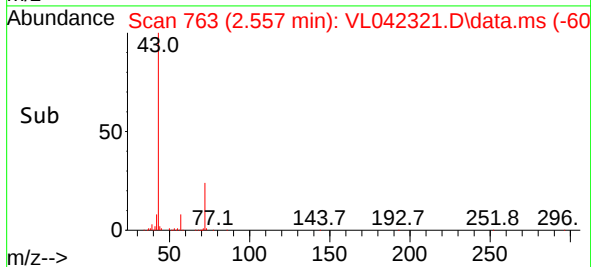
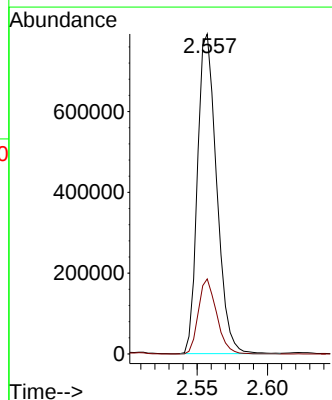
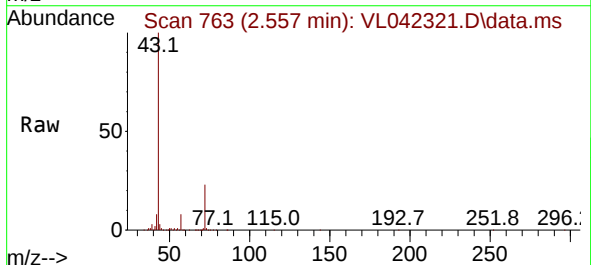
Manual Integrations
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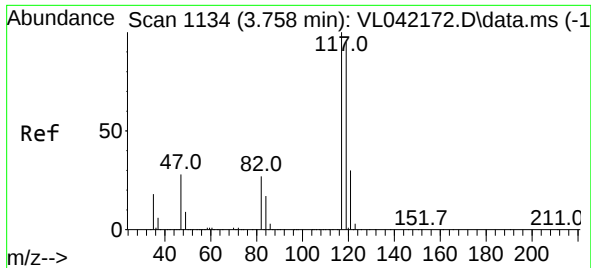
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#34
2-Butanone
Concen: 22.673 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

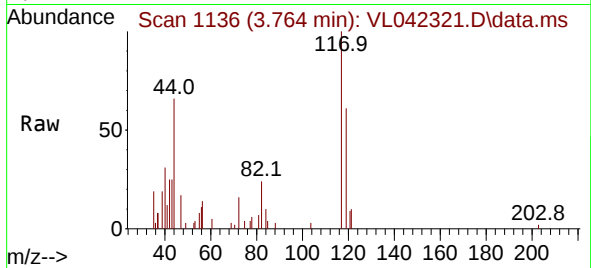
Tgt Ion: 43 Resp: 746435
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.764 min Scan# 1134
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

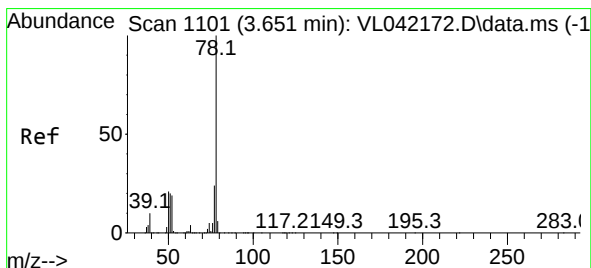
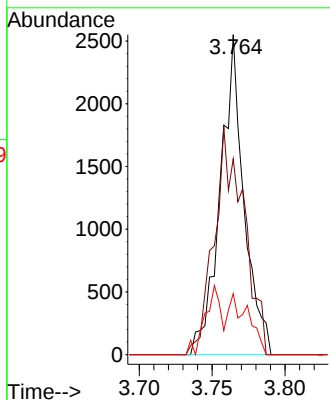
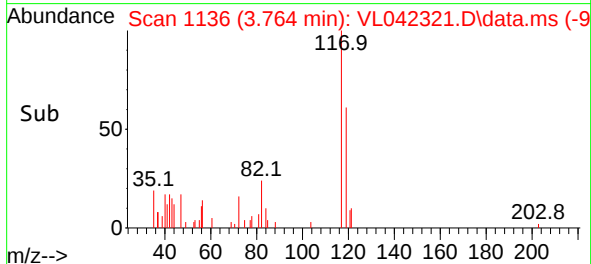
Instrument : MSVOA_L
ClientSampleId : IA-B10-3-3242025



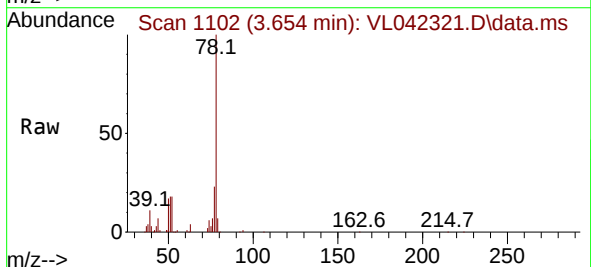
Tgt Ion: 117 Resp: 2892
Ion Ratio Lower Upper
117 100
119 61.2 76.2 114.2
121 10.2 24.2 36.4

Manual Integrations
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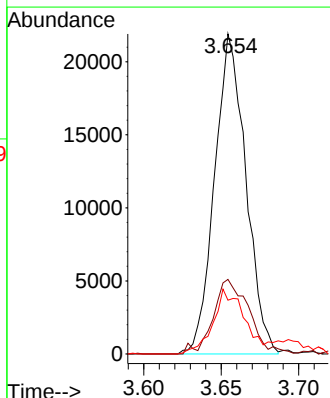
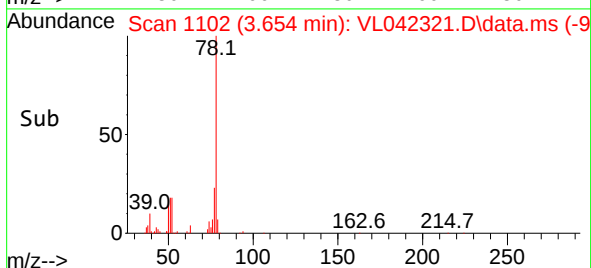
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

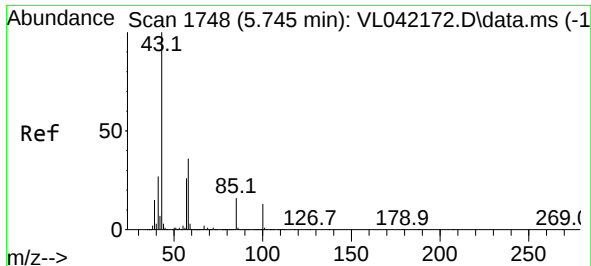


#36
Benzene
Concen: 0.683 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



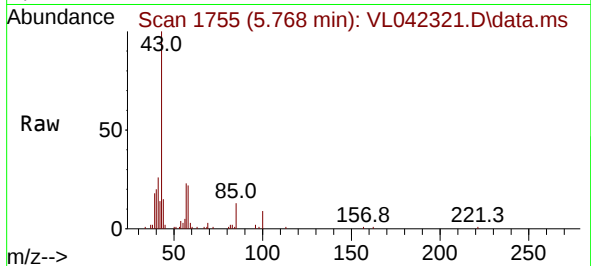
Tgt Ion: 78 Resp: 30723
Ion Ratio Lower Upper
78 100
77 23.3 19.1 28.7
50 16.8 16.6 24.8





#50
4-Methyl-2-Pentanone
Concen: 0.449 ppbv m
RT: 5.768 min Scan# 1755
Delta R.T. 0.022 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

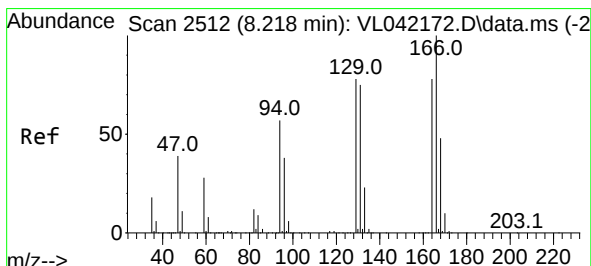
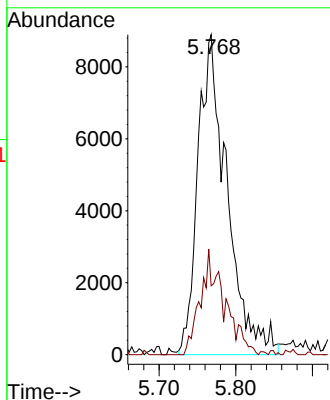
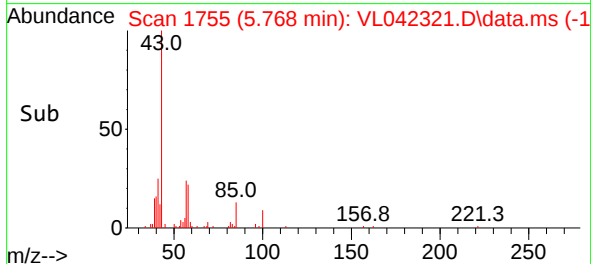
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



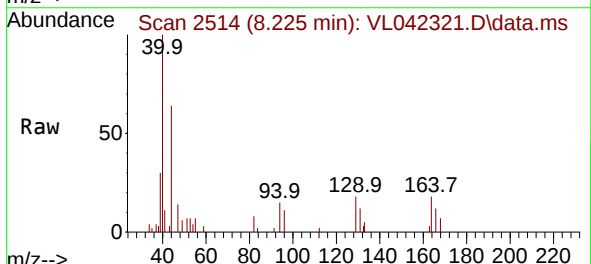
Tgt Ion: 43 Resp: 23404
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

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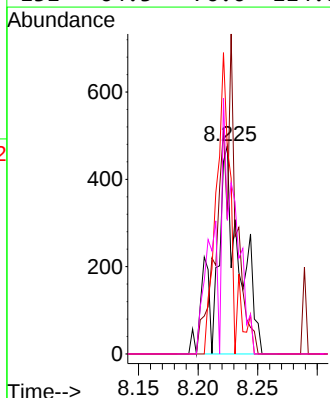
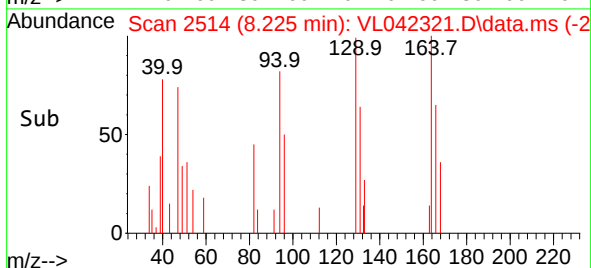
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

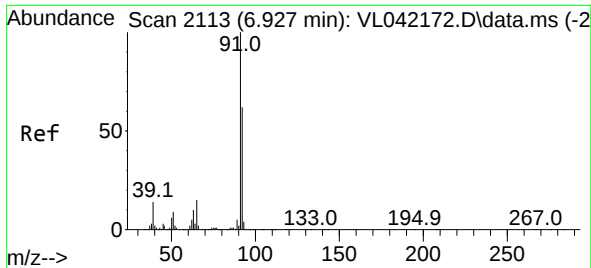


#52
Tetrachloroethene
Concen: 0.037 ppbv m
RT: 8.225 min Scan# 2514
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



Tgt Ion:164 Resp: 653
Ion Ratio Lower Upper
164 100
166 64.9 102.5 153.7#
129 98.9 79.8 119.8
131 64.3 76.6 114.8#





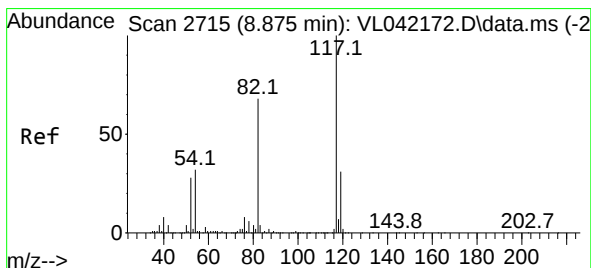
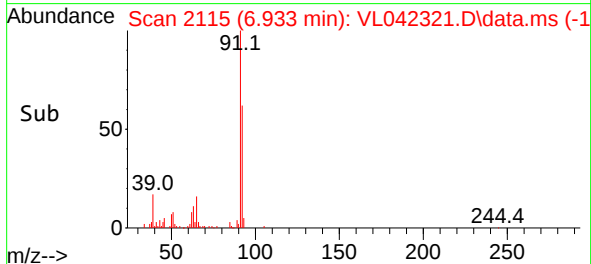
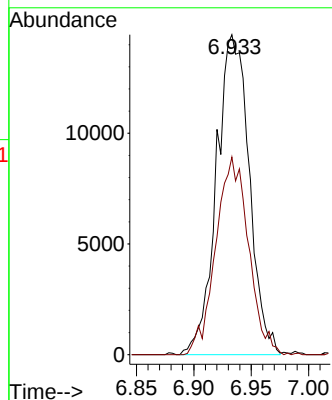
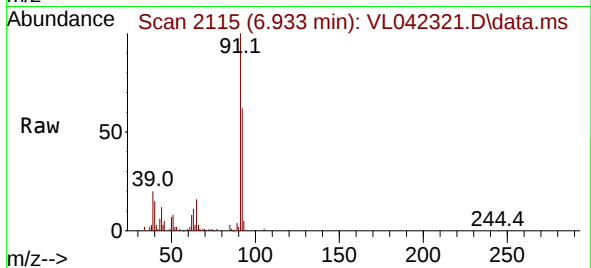
#53
Toluene
Concen: 0.538 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025

Tgt Ion: 91 Resp: 2869
Ion Ratio Lower Upper
91 100
92 61.8 48.4 72.6

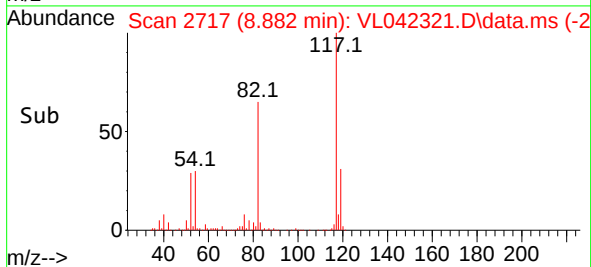
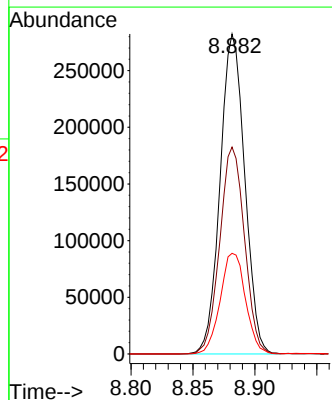
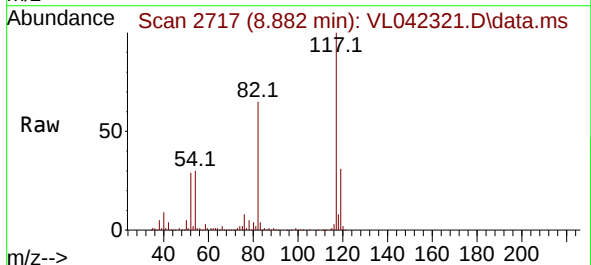
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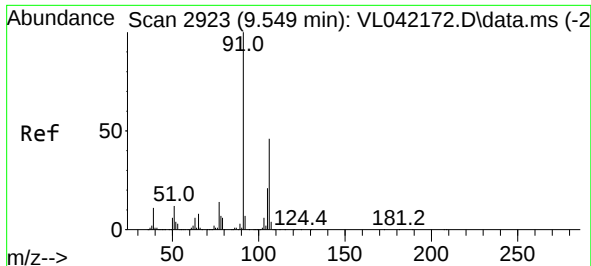
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

Tgt Ion:117 Resp: 391031
Ion Ratio Lower Upper
117 100
82 65.2 55.8 83.6
119 32.4 25.5 38.3





#59

m/p-Xylene

Concen: 0.200 ppbv m

RT: 9.529 min Scan# 2917

Delta R.T. -0.020 min

Lab File: VL042321.D

Acq: 11 Apr 2025 15:36

Instrument :

MSVOA_L

ClientSampleId :

LA-B10-3-3242025

Tgt Ion: 91 Resp: 11090

Ion Ratio Lower Upper

91 100

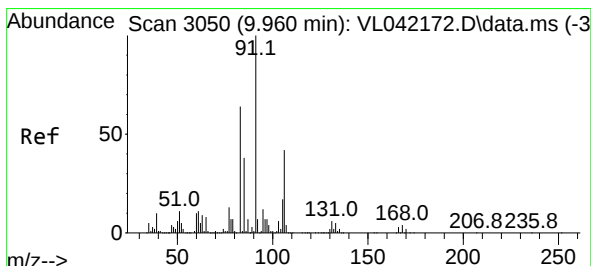
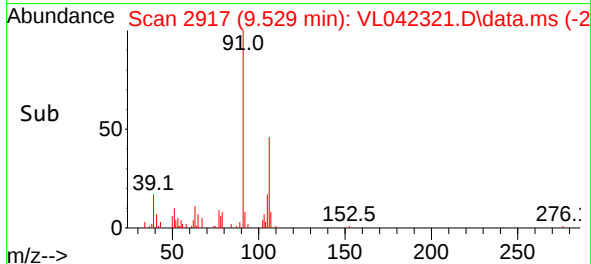
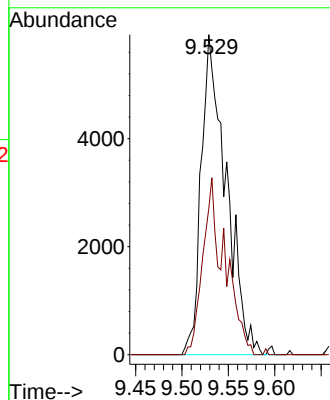
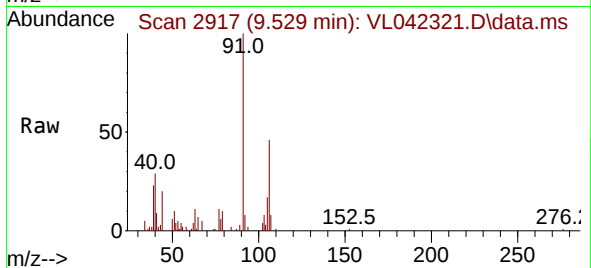
106 0.0 36.4 54.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/16/2025

Supervised By :Mahesh Dadoda 04/17/2025



#60

o-Xylene

Concen: 0.109 ppbv m

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042321.D

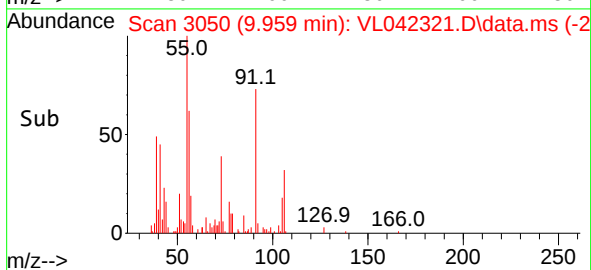
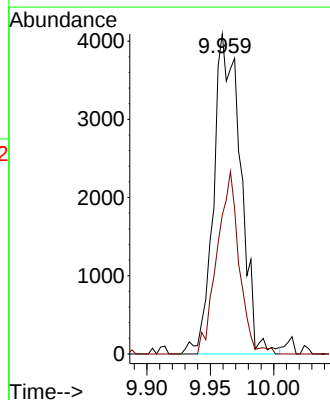
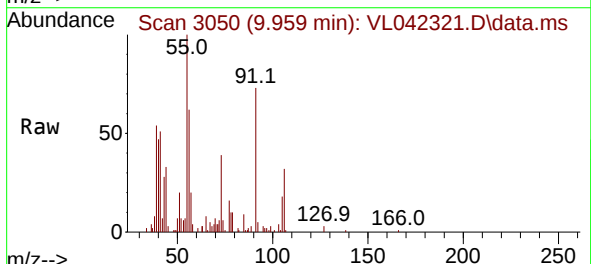
Acq: 11 Apr 2025 15:36

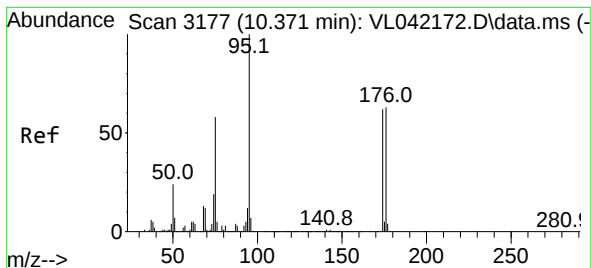
Tgt Ion: 91 Resp: 6064

Ion Ratio Lower Upper

91 100

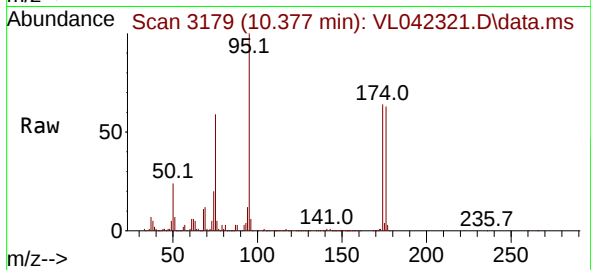
106 46.6 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.386 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36

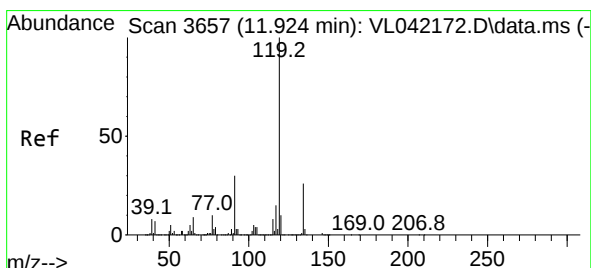
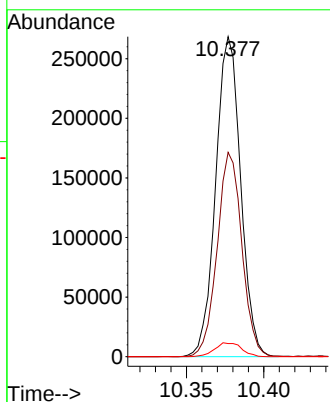
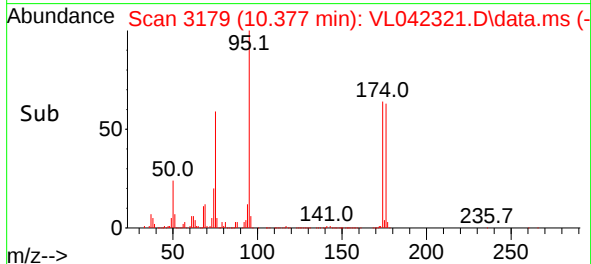
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025



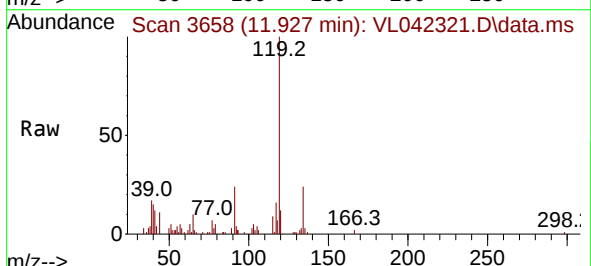
Tgt Ion: 95 Resp: 301415
Ion Ratio Lower Upper
95 100
174 63.4 50.6 76.0
175 4.7 3.8 5.6

Manual Integrations
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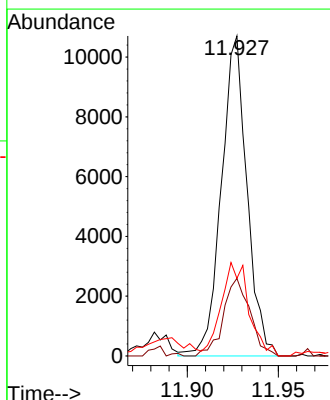
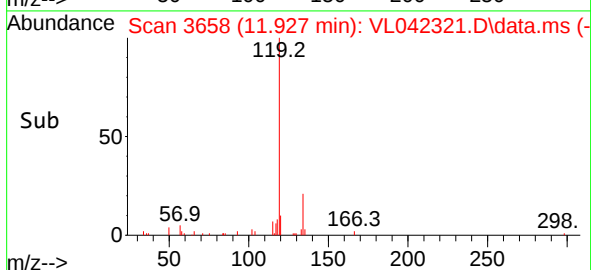
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

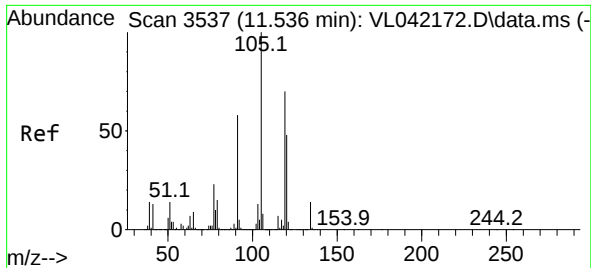


#69
p-Isopropyltoluene
Concen: 0.114 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042321.D
Acq: 11 Apr 2025 15:36



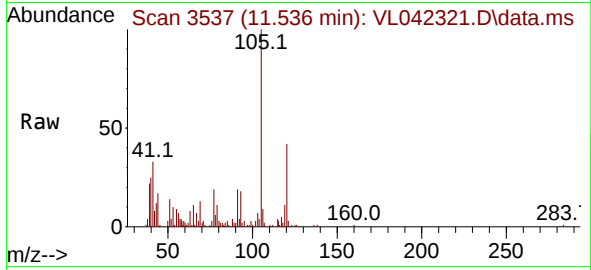
Tgt Ion:119 Resp: 10463
Ion Ratio Lower Upper
119 100
134 25.2 20.4 30.6
91 36.3 23.7 35.5#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.156 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.000 min
 Lab File: VL042321.D
 Acq: 11 Apr 2025 15:36

Instrument : MSVOA_L
 ClientSampleId : IA-B10-3-3242025



Tgt Ion:	105	Resp:	1088
Ion	Ratio	Lower	Upper
105	100		
120	40.0	38.6	58.0
91	15.8	46.2	69.2
77	18.6	18.6	27.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

