

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
 Data File : VL042070.D
 Acq On : 27 Feb 2025 12:57
 Operator : SY/MD
 Sample : Q1450-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/28/2025
 Supervised By : Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 00:25:32 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	2.810	49	170602	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.991	114	392374	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.911	117	332650	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	262162	10.244	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	7619	0.429	ppbv #	79
3) Chlorodifluoromethane	1.486	51	8162m	0.329	ppbv	
4) Chloromethane	1.541	50	2139	0.326	ppbv #	76
9) Propene	1.495	41	7384m	0.731	ppbv	
10) Heptane	5.023	43	14697	0.467	ppbv	99
11) Trichlorofluoromethane	1.890	101	4143	0.233	ppbv	90
13) Ethanol	1.735	45	7066	11.019	ppbv #	33
15) Acetone	1.848	43	106666	7.080	ppbv	99
19) Isopropyl Alcohol	1.900	45	7506	0.867	ppbv #	1
20) Methylene Chloride	2.078	84	2706	0.475	ppbv	99
26) Hexane	2.848	57	5295	0.217	ppbv #	45
34) 2-Butanone	2.583	43	11019	0.360	ppbv	93
35) Carbon Tetrachloride	3.803	117	1904m	0.070	ppbv	
36) Benzene	3.690	78	8493m	0.207	ppbv	
50) 4-Methyl-2-Pentanone	5.826	43	4887m	0.124	ppbv	
52) Tetrachloroethene	8.257	164	2194m	0.156	ppbv	
53) Toluene	6.975	91	139501	3.039	ppbv	98
58) Ethyl Benzene	9.386	91	10801	0.176	ppbv	95
59) m/p-Xylene	9.558	91	30787m	0.632	ppbv	
60) o-Xylene	9.992	91	13620	0.278	ppbv	99
61) Styrene	9.895	104	3619m	0.157	ppbv	
74) 1,2,4-Trimethylbenzene	11.561	105	10119	0.173	ppbv #	61
79) Naphthalene	13.536	128	4850	0.121	ppbv	97

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

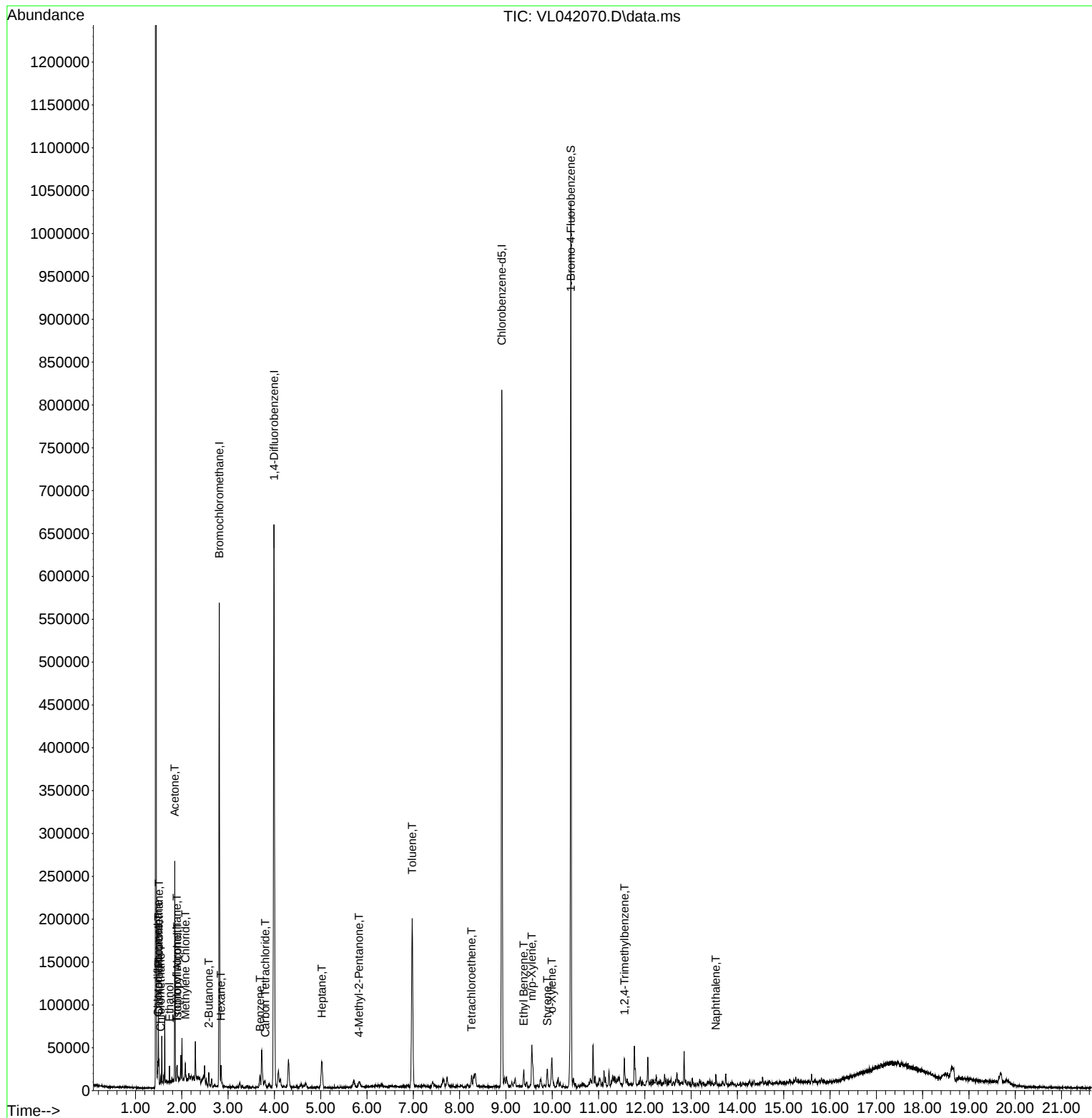
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
Data File : VL042070.D
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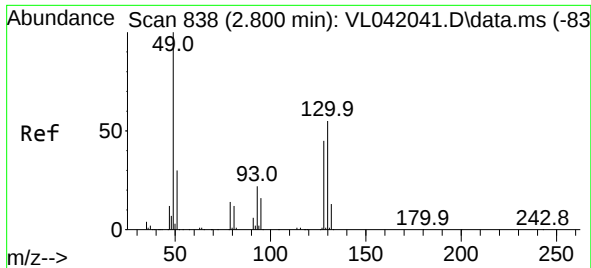
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Feb 28 00:25:32 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
APPROVED

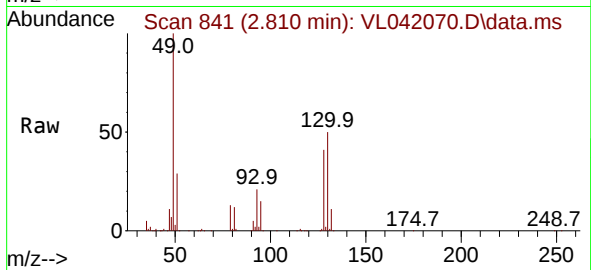
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.010 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

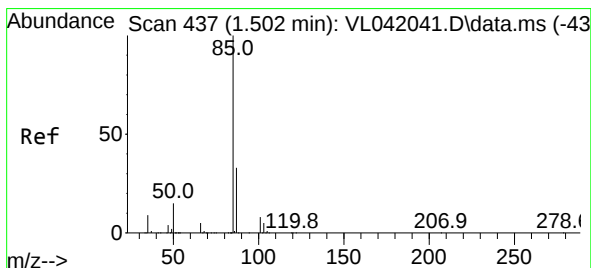
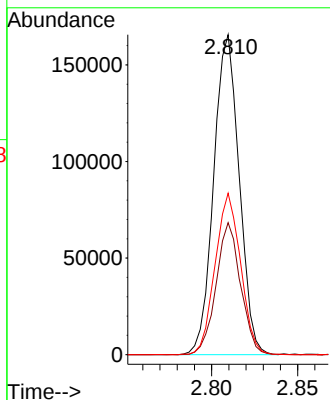
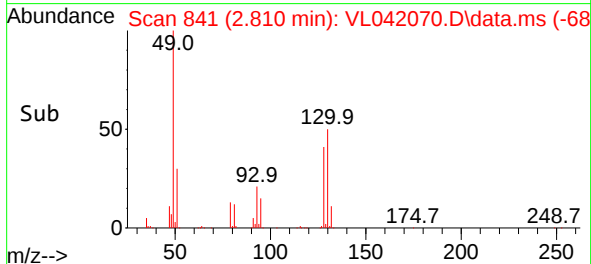
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



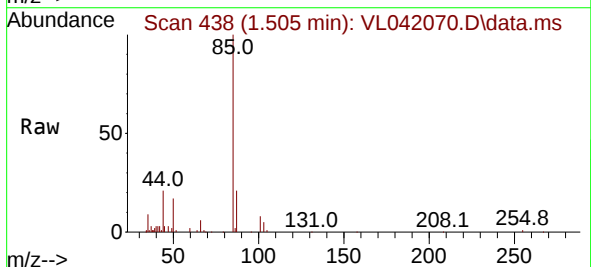
Tgt Ion: 49 Resp: 170602
Ion Ratio Lower Upper
49 100
128 39.6 21.6 64.8
130 50.5 27.8 83.4

Manual Integrations
APPROVED

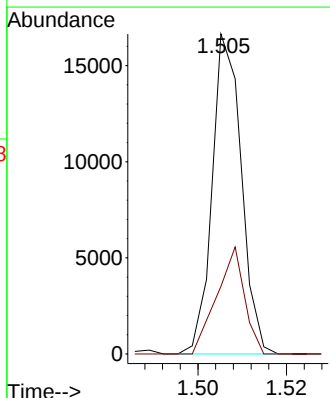
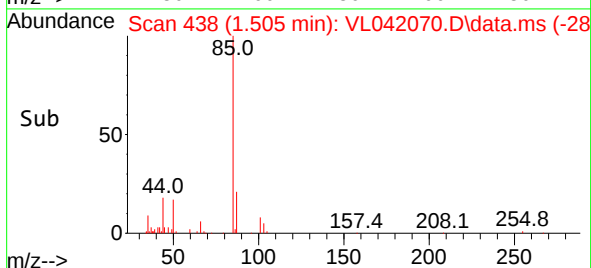
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

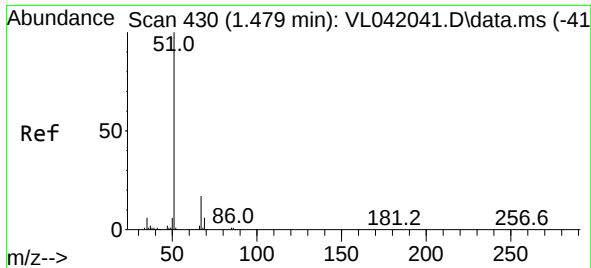


#2
Dichlorodifluoromethane
Concen: 0.429 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57



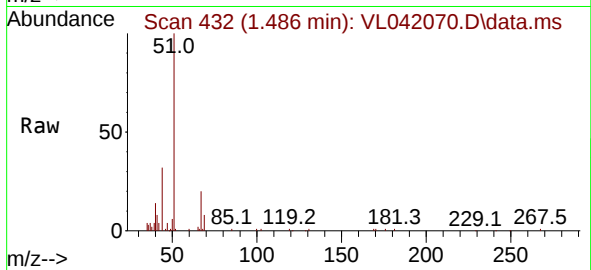
Tgt Ion: 85 Resp: 7619
Ion Ratio Lower Upper
85 100
87 21.1 26.4 39.6#





#3
Chlorodifluoromethane
Concen: 0.329 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

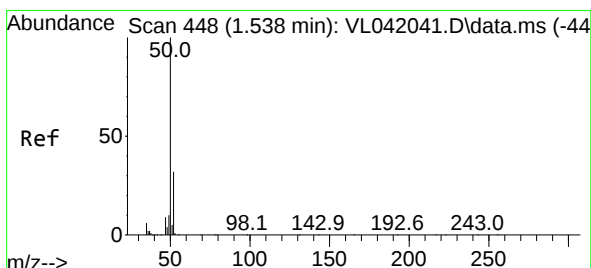
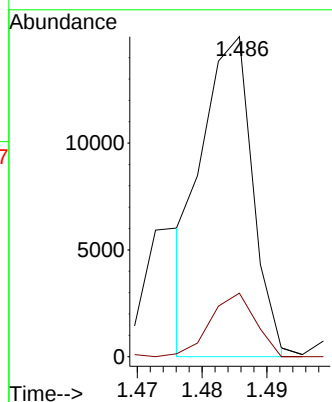
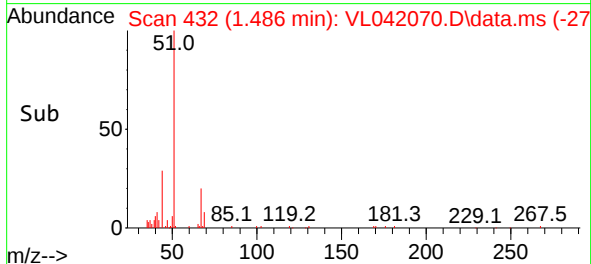
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 51 Resp: 816
Ion Ratio Lower Upper
51 100
67 18.1 13.7 20.5

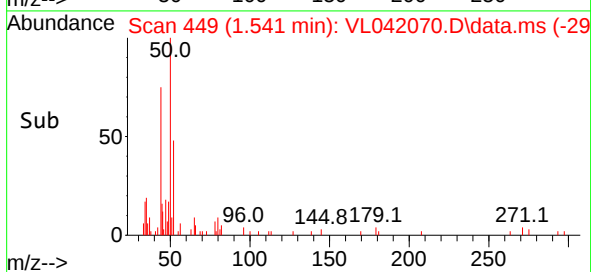
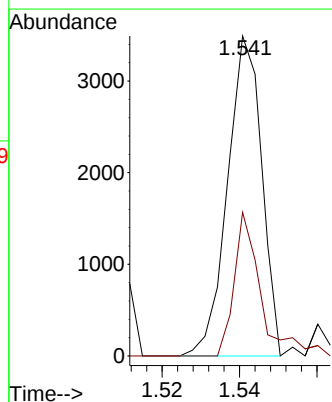
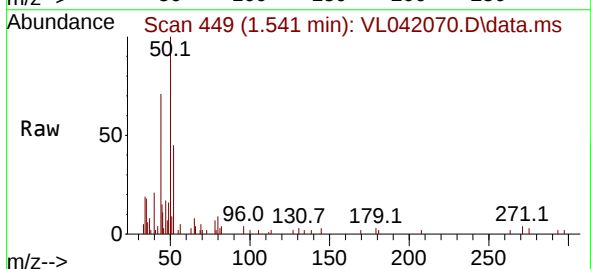
Manual Integrations
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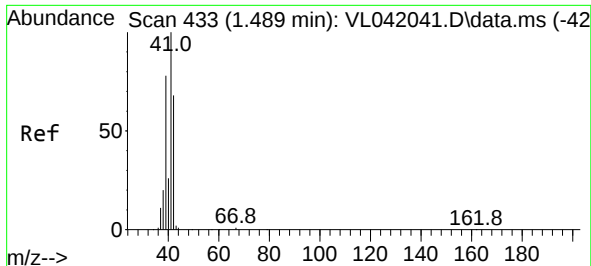
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#4
Chloromethane
Concen: 0.326 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.003 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

Tgt Ion: 50 Resp: 2139
Ion Ratio Lower Upper
50 100
52 44.9 25.4 38.0#





#9

Propene

Concen: 0.731 ppbv m

RT: 1.495 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042070.D

Acq: 27 Feb 2025 12:57

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 7384

Ion Ratio Lower Upper

41 100

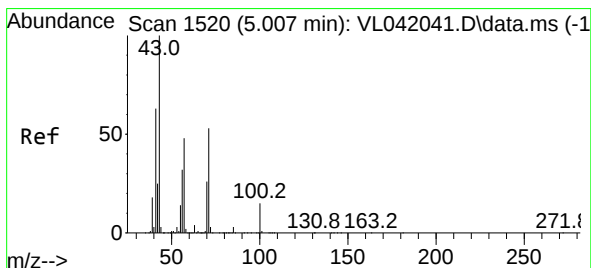
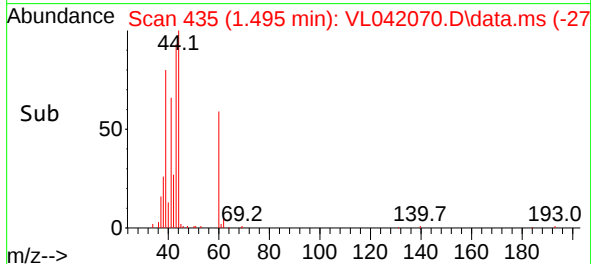
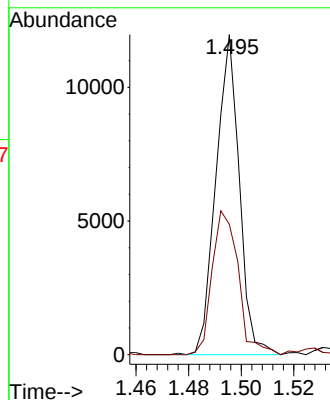
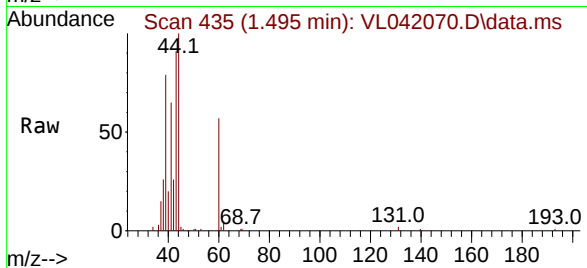
42 60.3 55.8 83.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#10

Heptane

Concen: 0.467 ppbv

RT: 5.023 min Scan# 1525

Delta R.T. 0.016 min

Lab File: VL042070.D

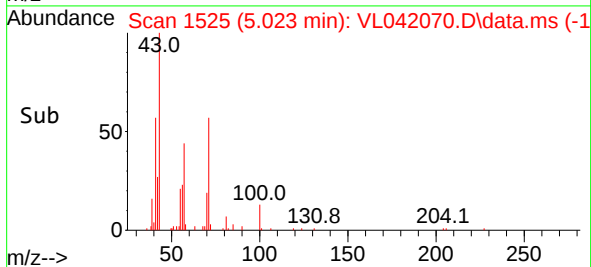
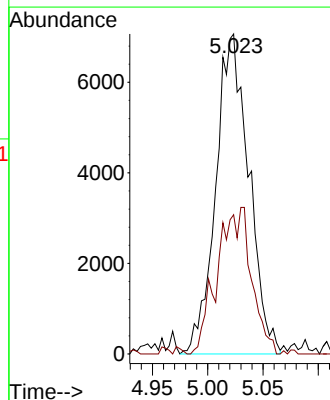
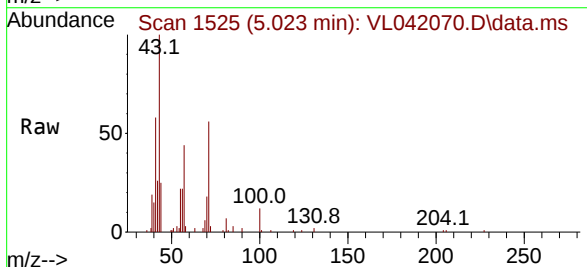
Acq: 27 Feb 2025 12:57

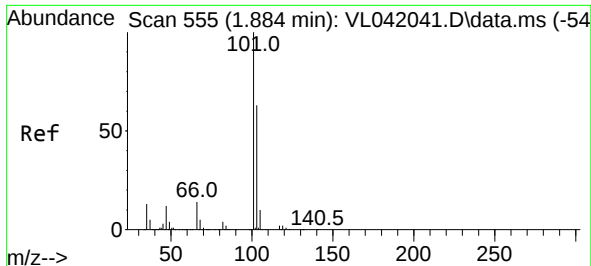
Tgt Ion: 43 Resp: 14697

Ion Ratio Lower Upper

43 100

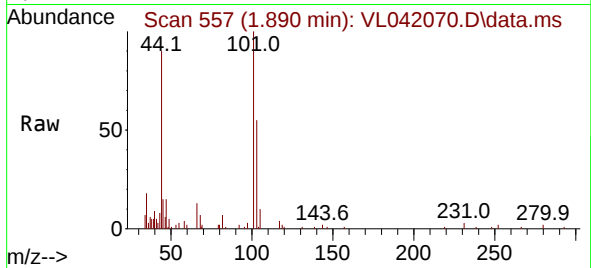
57 48.5 39.4 59.0





#11
Trichlorofluoromethane
Concen: 0.233 ppbv
RT: 1.890 min Scan# 509
Delta R.T. 0.006 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

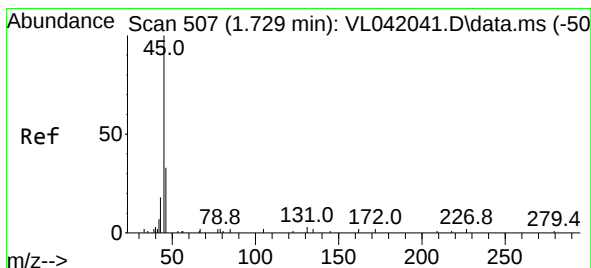
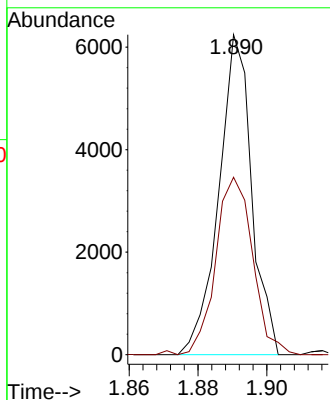
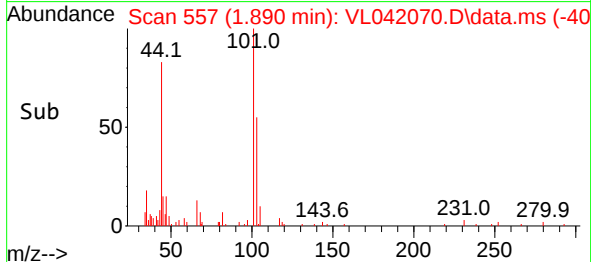
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:101 Resp: 414
Ion Ratio Lower Upper
101 100
103 55.5 50.6 75.8

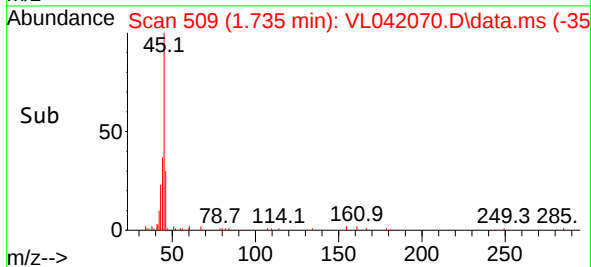
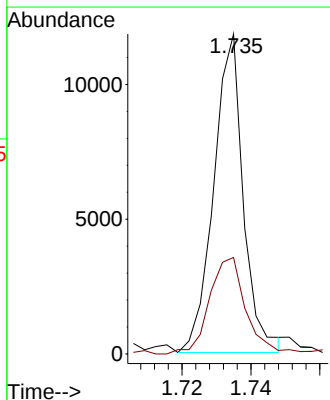
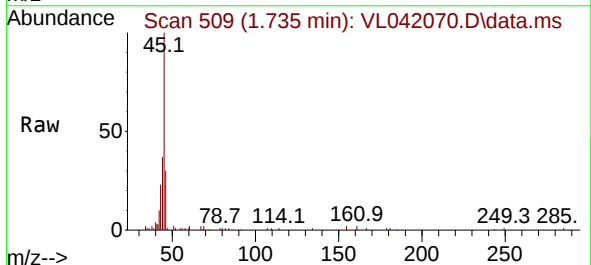
Manual Integrations
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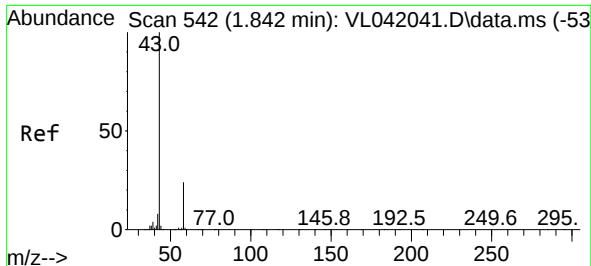
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#13
Ethanol
Concen: 11.019 ppbv
RT: 1.735 min Scan# 509
Delta R.T. 0.006 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

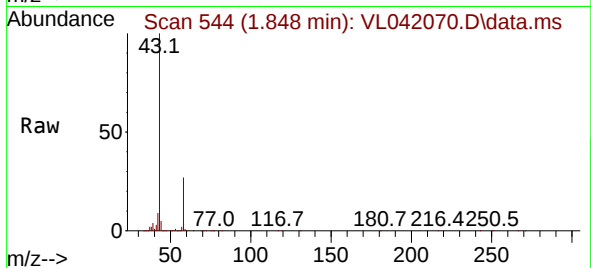
Tgt Ion: 45 Resp: 7066
Ion Ratio Lower Upper
45 100
46 0.0 17.1 68.3#





#15
Acetone
Concen: 7.080 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

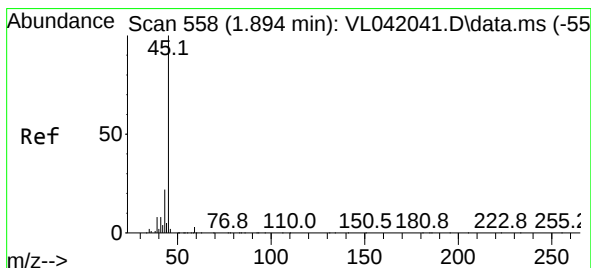
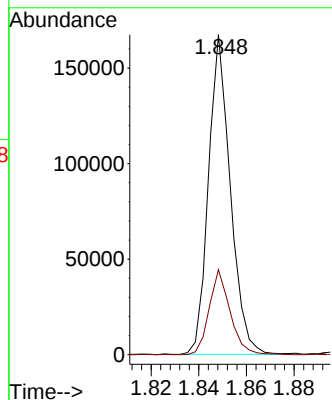
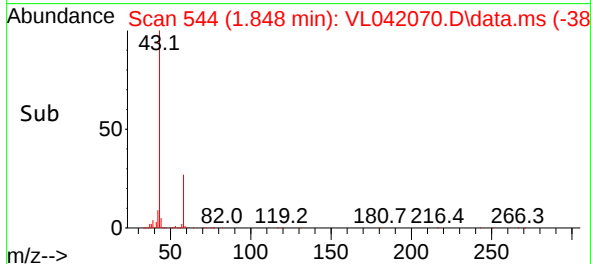
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 106660
Ion Ratio Lower Upper
43 100
58 25.5 20.7 31.1

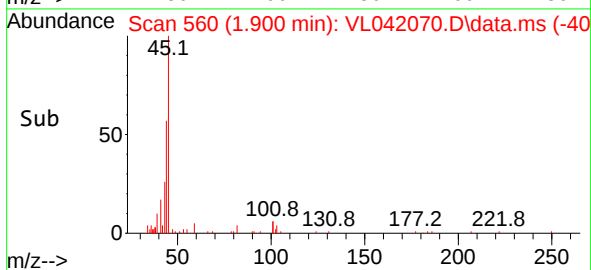
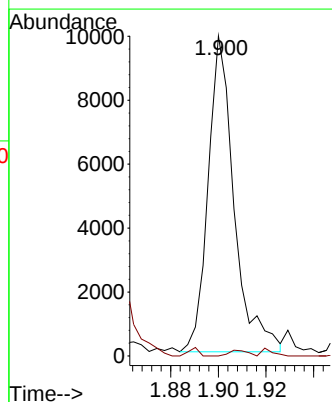
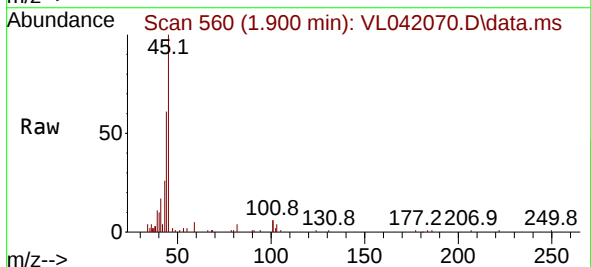
Manual Integrations
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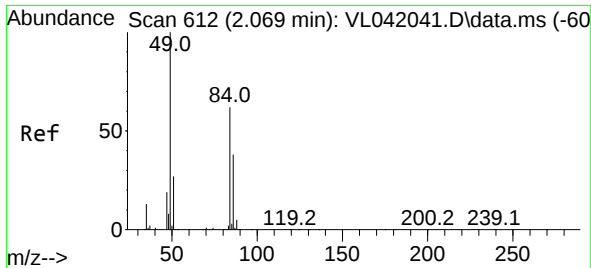
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#19
Isopropyl Alcohol
Concen: 0.867 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.006 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

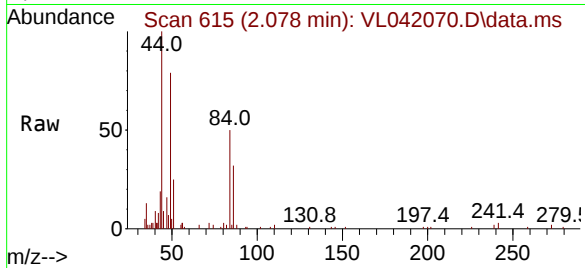
Tgt Ion: 45 Resp: 7506
Ion Ratio Lower Upper
45 100
58 363.0 35.3 52.9#





#20
Methylene Chloride
Concen: 0.475 ppbv
RT: 2.078 min Scan# 612
Delta R.T. 0.010 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

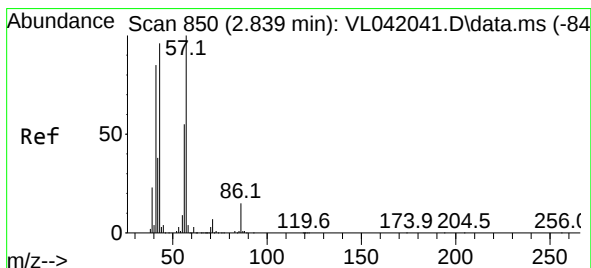
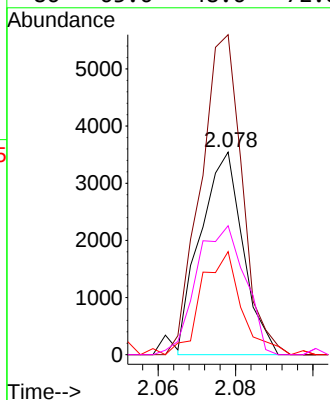
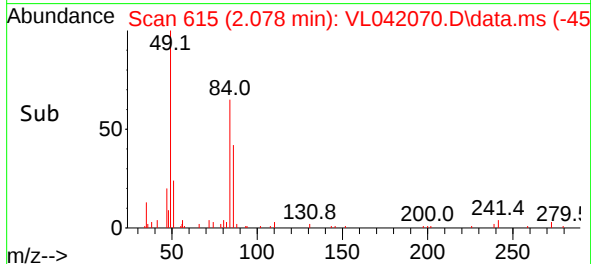
Instrument :
MSVOA_L
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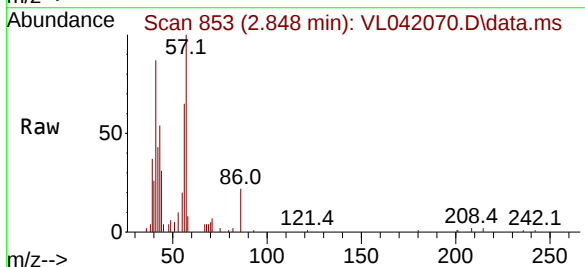
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Ion Ratio Lower Upper
84 100
49 163.1 130.0 195.0
51 46.7 37.4 56.0
86 63.6 48.6 72.8

Manual Integrations
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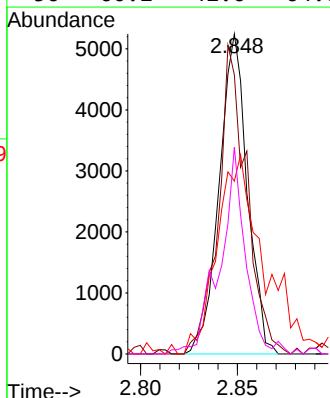
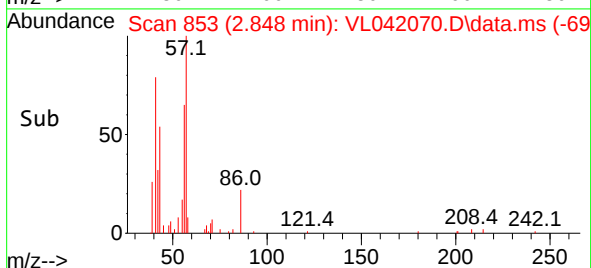
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

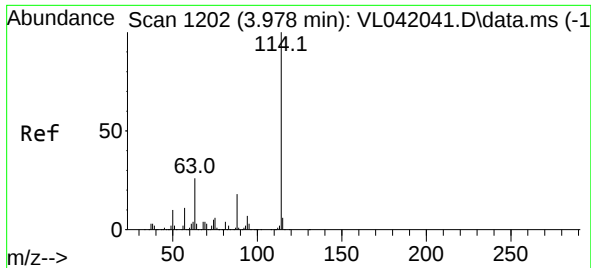


#26
Hexane
Concen: 0.217 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.010 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57



Tgt Ion: 57 Resp: 5295
Ion Ratio Lower Upper
57 100
41 98.4 70.6 106.0
43 109.7 199.4 299.0#
56 60.2 42.6 64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.991 min Scan# 114

Delta R.T. 0.013 min

Lab File: VL042070.D

Acq: 27 Feb 2025 12:57

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:114 Resp: 392374

Ion Ratio Lower Upper

114 100

63 26.9 20.1 30.1

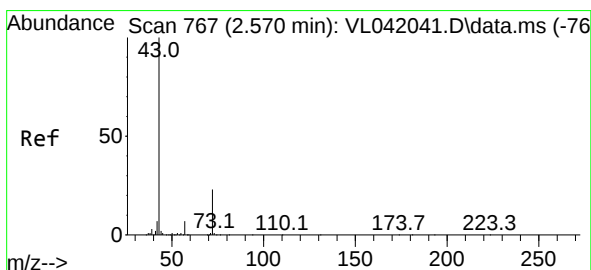
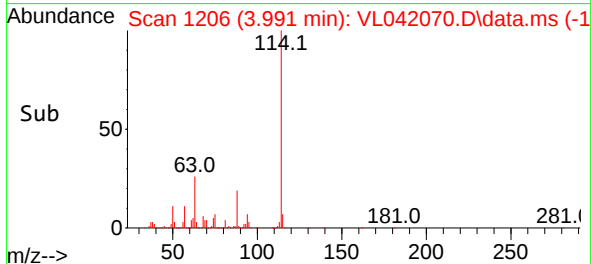
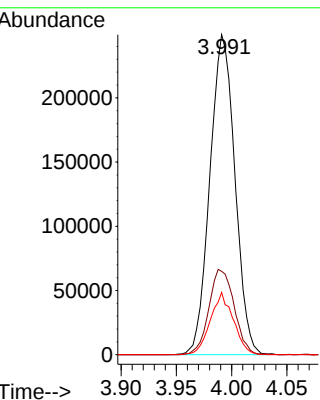
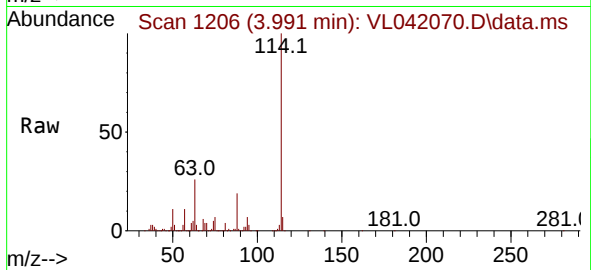
88 17.8 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#34

2-Butanone

Concen: 0.360 ppbv

RT: 2.583 min Scan# 771

Delta R.T. 0.013 min

Lab File: VL042070.D

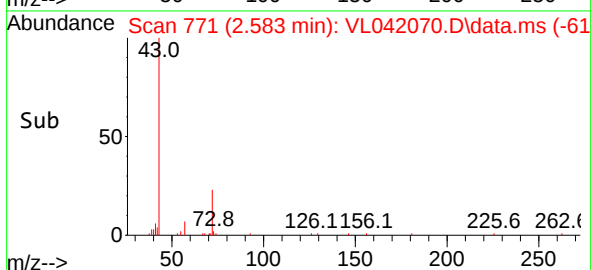
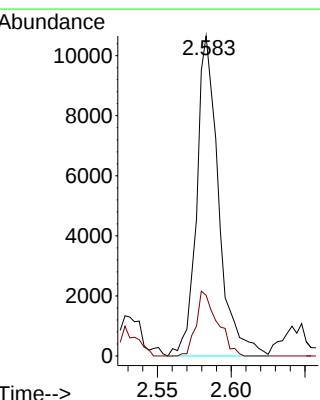
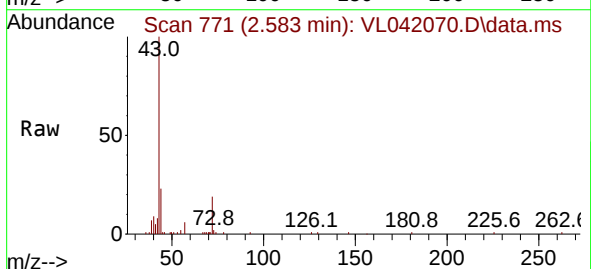
Acq: 27 Feb 2025 12:57

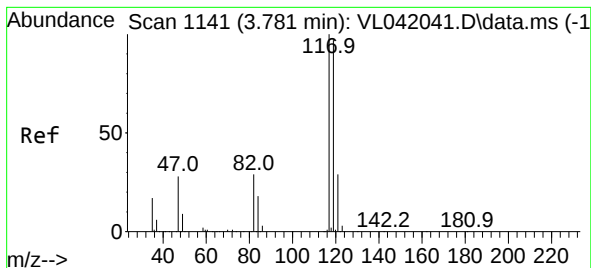
Tgt Ion: 43 Resp: 11019

Ion Ratio Lower Upper

43 100

72 19.7 18.5 27.7





#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 3.803 min Scan# 1113

Delta R.T. 0.022 min

Lab File: VL042070.D

Acq: 27 Feb 2025 12:57

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

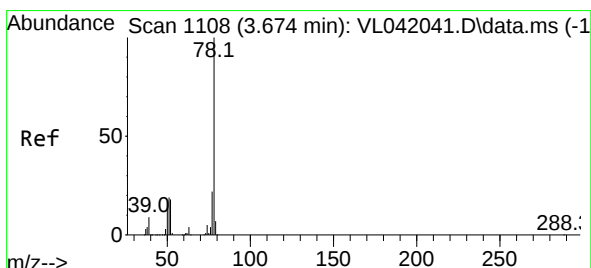
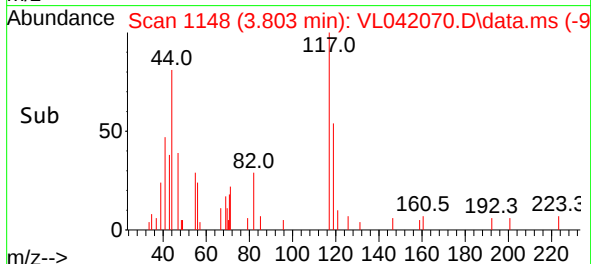
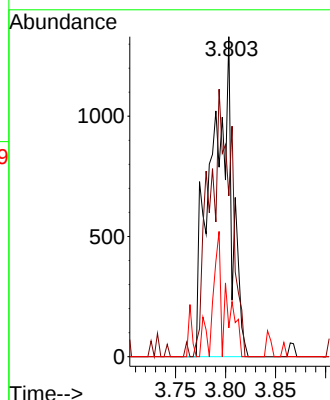
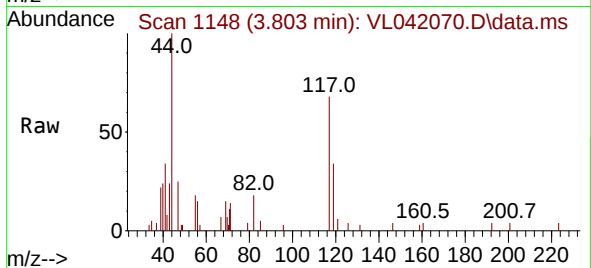
Tgt Ion:	117	Resp:	1904
Ion	Ratio	Lower	Upper
117	100		
119	50.3	77.8	116.8
121	9.0	23.4	35.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/28/2025

Supervised By :Mahesh Dadoda 02/28/2025



#36

Benzene

Concen: 0.207 ppbv m

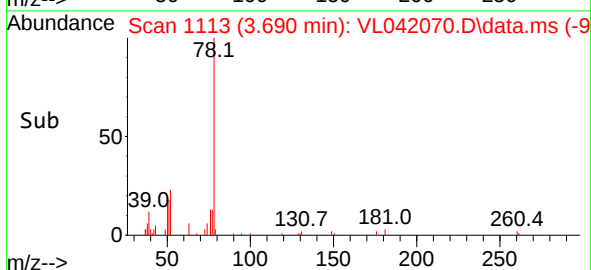
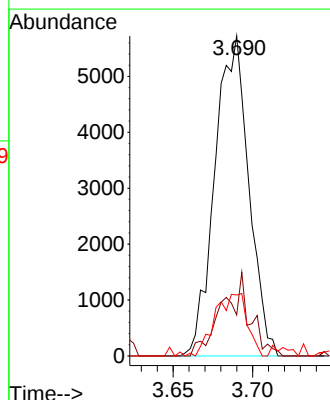
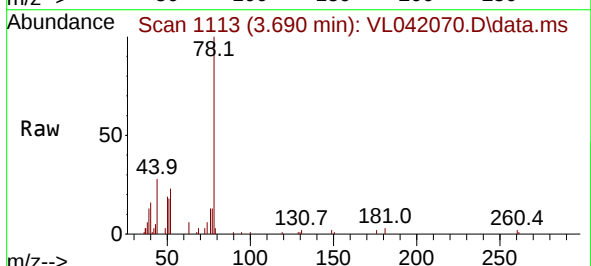
RT: 3.690 min Scan# 1113

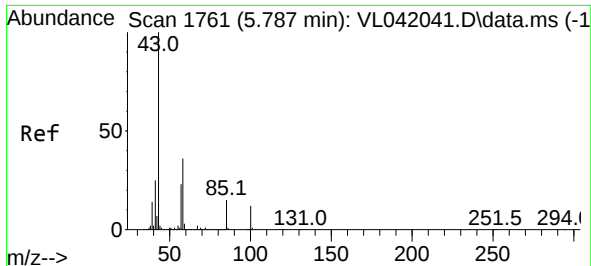
Delta R.T. 0.016 min

Lab File: VL042070.D

Acq: 27 Feb 2025 12:57

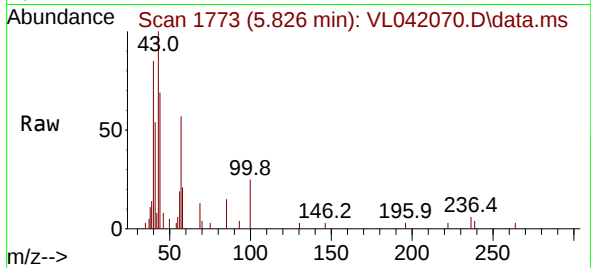
Tgt Ion:	78	Resp:	8493
Ion	Ratio	Lower	Upper
78	100		
77	12.8	17.7	26.5
50	19.0	13.9	20.9





#50
4-Methyl-2-Pentanone
Concen: 0.124 ppbv m
RT: 5.826 min Scan# 1773
Delta R.T. 0.039 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

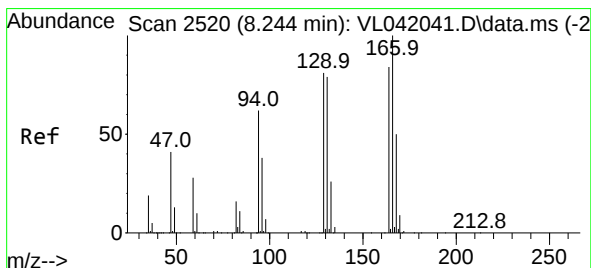
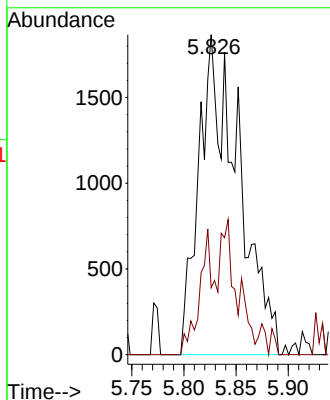
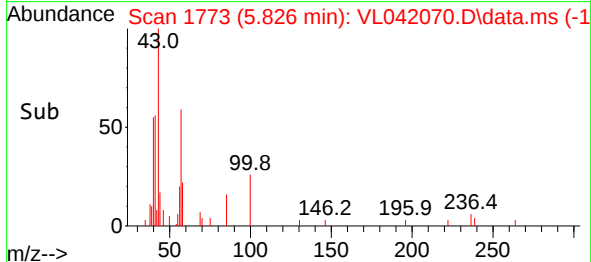
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 488
Ion Ratio Lower Upper
43 100
58 0.0 29.3 43.9

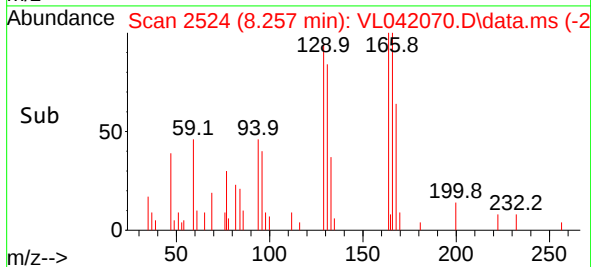
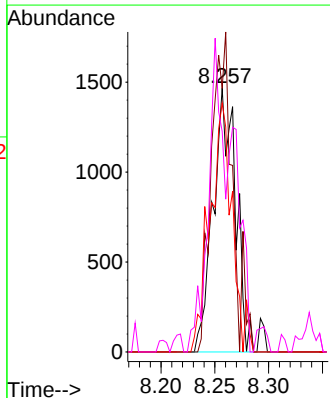
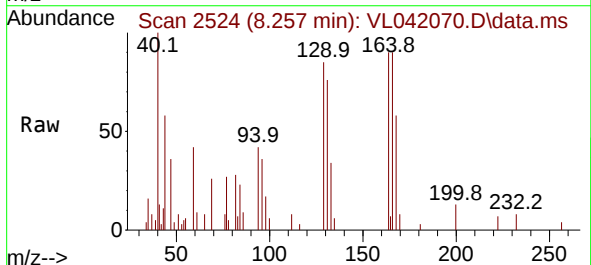
Manual Integrations
APPROVED

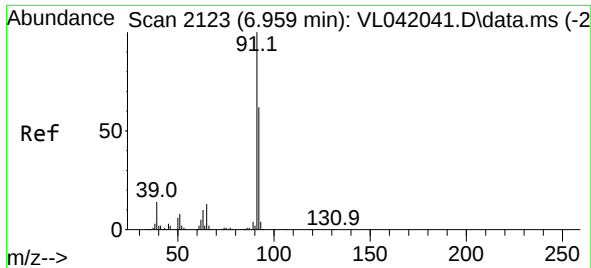
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#52
Tetrachloroethene
Concen: 0.156 ppbv m
RT: 8.257 min Scan# 2524
Delta R.T. 0.013 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

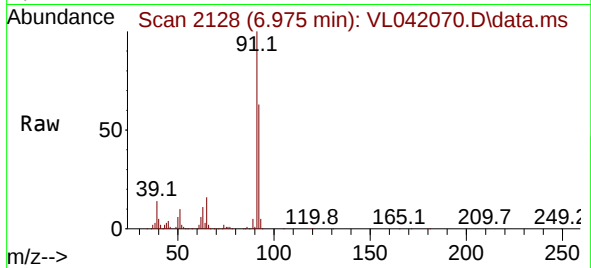
Tgt Ion:164 Resp: 2194
Ion Ratio Lower Upper
164 100
166 99.9 95.7 143.5
129 94.3 77.1 115.7
131 83.6 76.0 114.0





#53
Toluene
Concen: 3.039 ppbv
RT: 6.975 min Scan# 2123
Delta R.T. 0.016 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

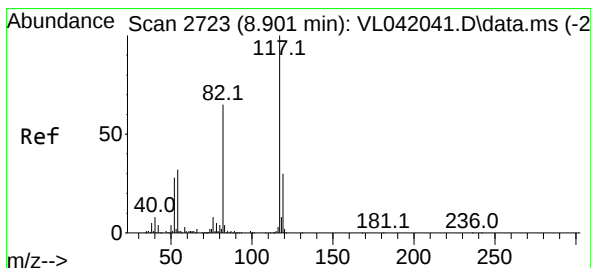
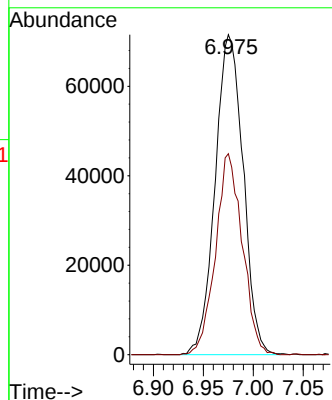
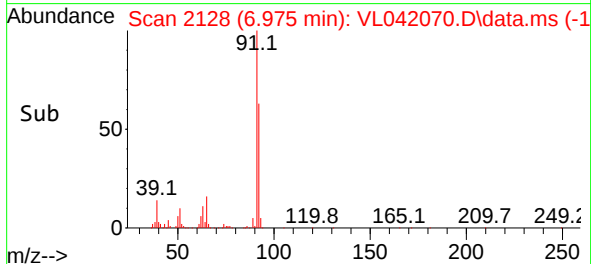
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



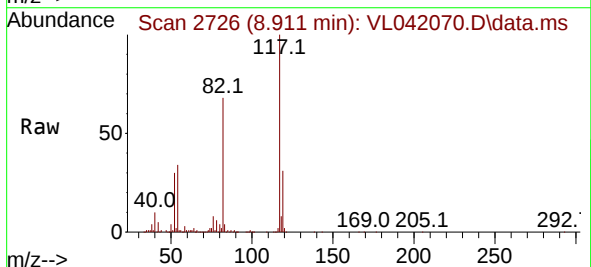
Tgt Ion: 91 Resp: 13950
Ion Ratio Lower Upper
91 100
92 60.0 49.0 73.6

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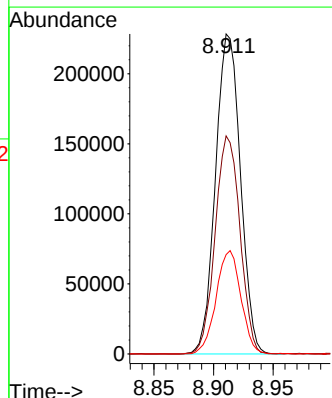
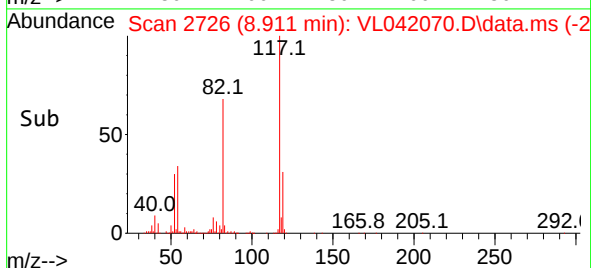
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

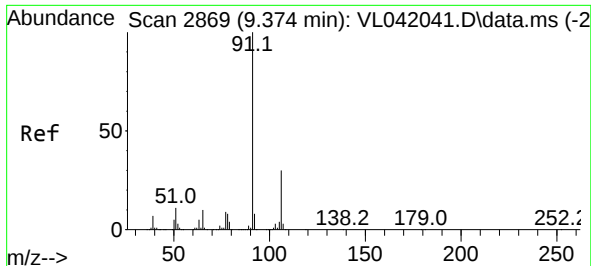


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.911 min Scan# 2726
Delta R.T. 0.010 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57



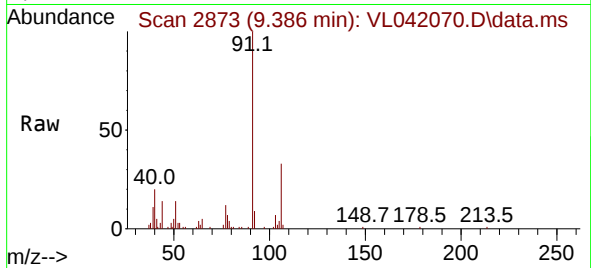
Tgt Ion:117 Resp: 332650
Ion Ratio Lower Upper
117 100
82 67.8 55.0 82.6
119 32.2 25.9 38.9





#58
Ethyl Benzene
Concen: 0.176 ppbv
RT: 9.386 min Scan# 2873
Delta R.T. 0.013 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

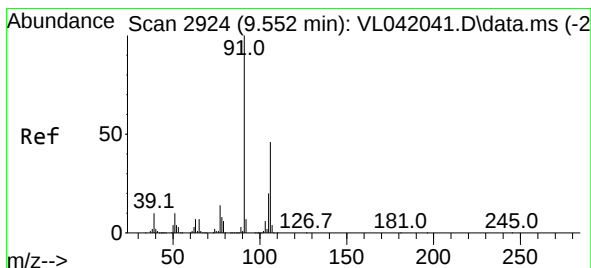
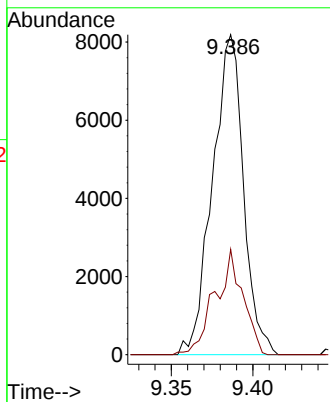
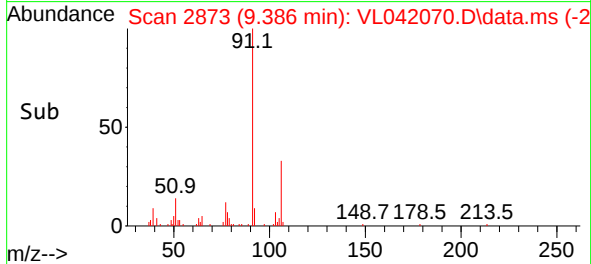
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



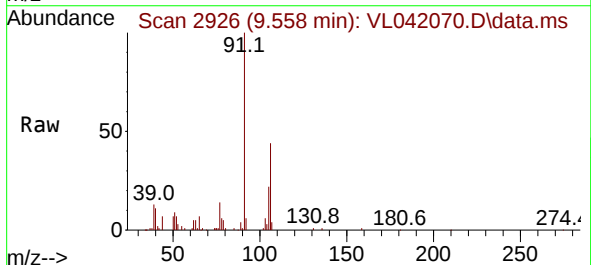
Tgt Ion: 91 Resp: 1080
Ion Ratio Lower Upper
91 100
106 32.9 24.2 36.2

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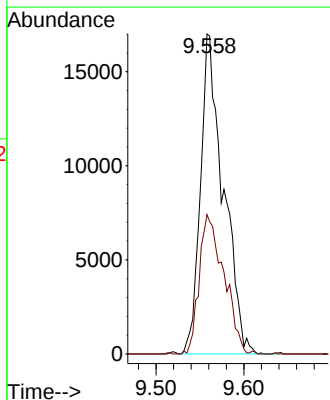
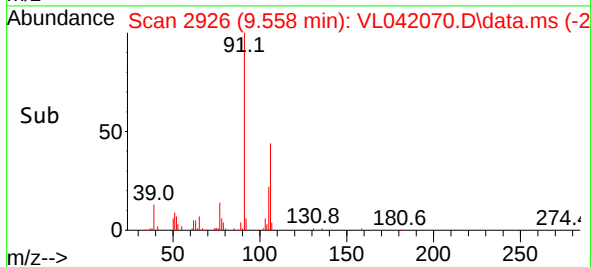
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

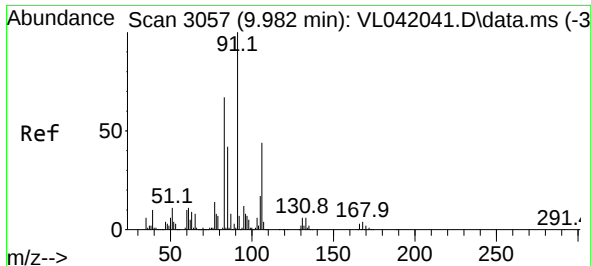


#59
m/p-Xylene
Concen: 0.632 ppbv m
RT: 9.558 min Scan# 2926
Delta R.T. 0.006 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57



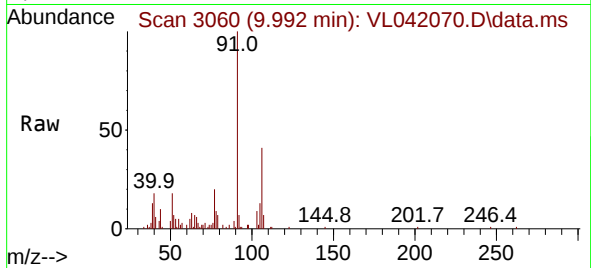
Tgt Ion: 91 Resp: 30787
Ion Ratio Lower Upper
91 100
106 47.0 0.0 0.0#





#60
o-Xylene
Concen: 0.278 ppbv
RT: 9.992 min Scan# 3060
Delta R.T. 0.009 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

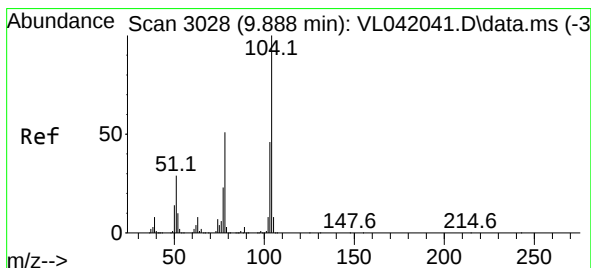
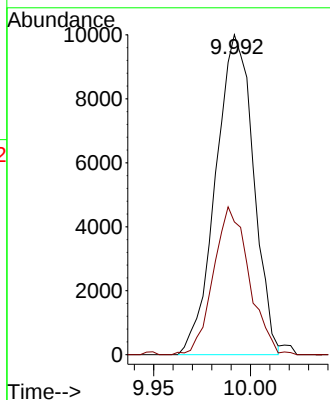
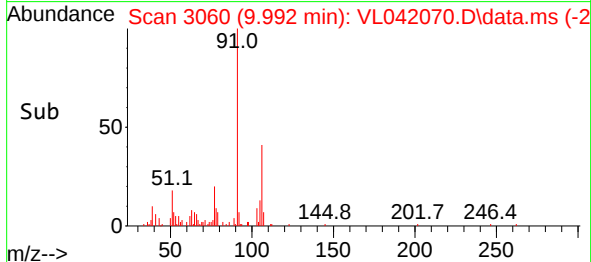
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 91 Resp: 13620
Ion Ratio Lower Upper
91 100
106 43.7 22.3 66.8

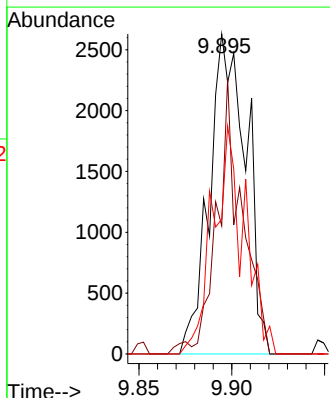
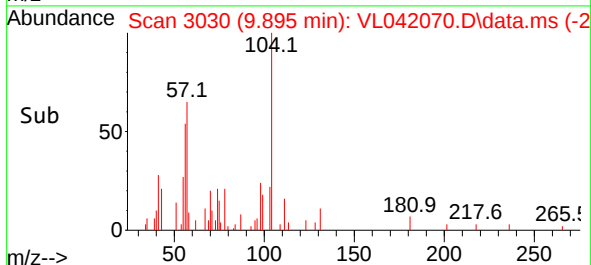
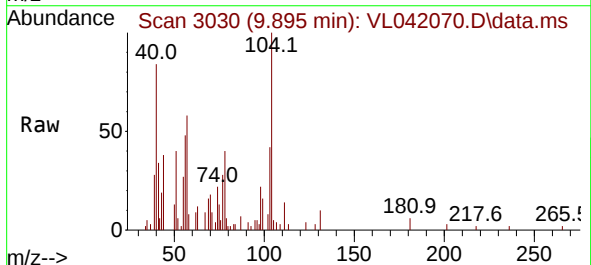
Manual Integrations
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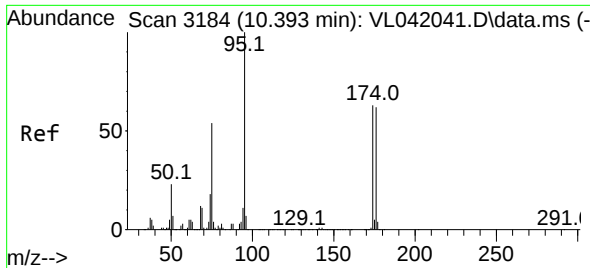
Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025



#61
Styrene
Concen: 0.157 ppbv m
RT: 9.895 min Scan# 3030
Delta R.T. 0.006 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

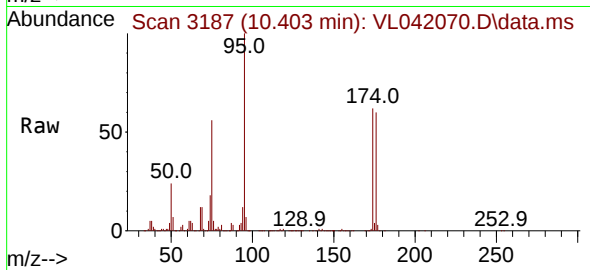
Tgt Ion:104 Resp: 3619
Ion Ratio Lower Upper
104 100
78 58.6 41.0 61.4
103 61.4 37.0 55.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.244 ppbv
 RT: 10.403 min Scan# 3184
 Delta R.T. 0.010 min
 Lab File: VL042070.D
 Acq: 27 Feb 2025 12:57

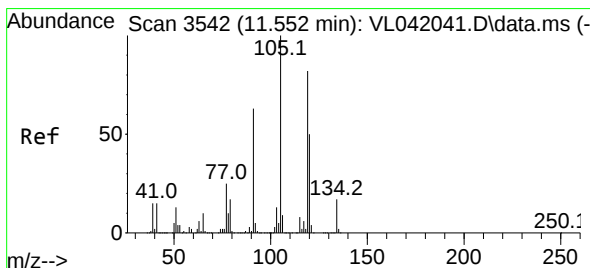
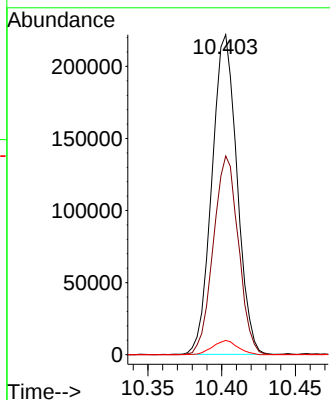
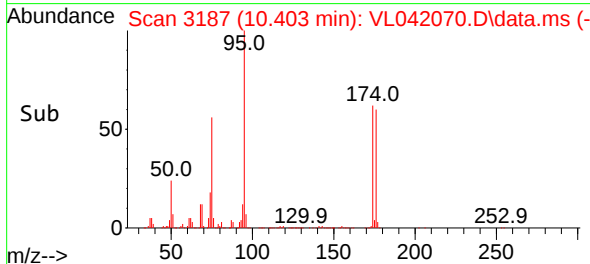
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion: 95 Resp: 262162
 Ion Ratio Lower Upper
 95 100
 174 62.4 51.8 77.6
 175 4.5 3.9 5.9

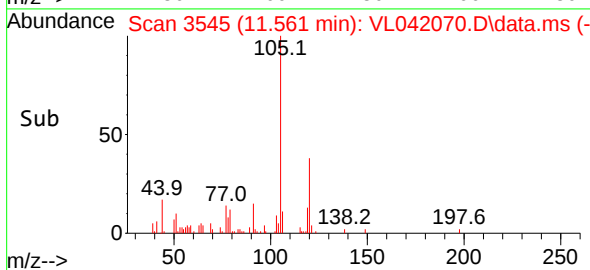
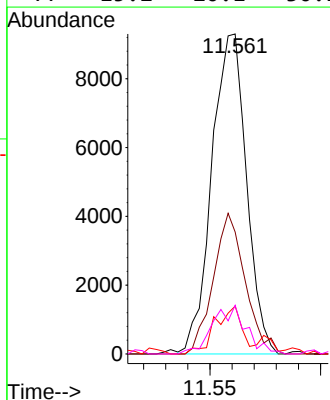
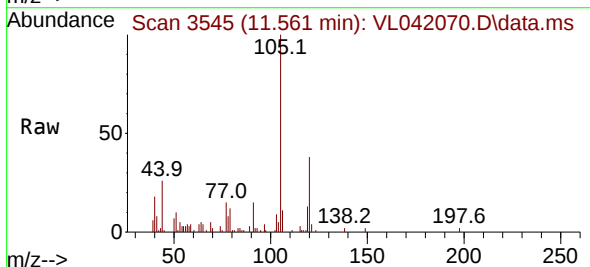
Manual Integrations
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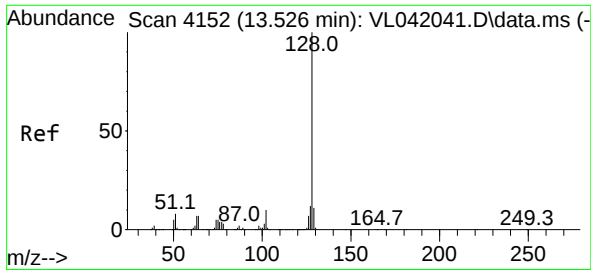
Reviewed By :Semsettin Yesilyurt 02/28/2025
 Supervised By :Mahesh Dadoda 02/28/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 0.173 ppbv
 RT: 11.561 min Scan# 3545
 Delta R.T. 0.010 min
 Lab File: VL042070.D
 Acq: 27 Feb 2025 12:57

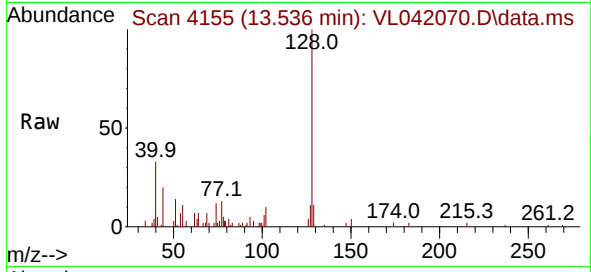
Tgt Ion:105 Resp: 10119
 Ion Ratio Lower Upper
 105 100
 120 38.1 40.2 60.2#
 91 14.9 51.4 77.2#
 77 15.2 20.1 30.1#





#79
Naphthalene
Concen: 0.121 ppbv
RT: 13.536 min Scan# 4155
Delta R.T. 0.010 min
Lab File: VL042070.D
Acq: 27 Feb 2025 12:57

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:128 Resp: 4850

Ion	Ratio	Lower	Upper
128	100		
127	10.6	9.8	14.6
129	11.4	8.6	12.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

