

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043095.D
 Acq On : 09 Oct 2025 19:29
 Operator : SY/MD
 Sample : Q3320-08 8X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 22:20:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	172723	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	465309	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	484936	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.357 95 397319 11.373 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 113.700%

Target Compounds

					Qvalue	
10) Heptane	4.949	43	10235m	0.367	ppbv	
11) Trichlorofluoromethane	1.868	101	3668	0.123	ppbv	86
13) Ethanol	1.712	45	3950	8.330	ppbv #	31
15) Acetone	1.826	43	633247	26.184	ppbv	97
19) Isopropyl Alcohol	1.877	45	5270	0.455	ppbv #	1
20) Methylene Chloride	2.052	84	4225	0.400	ppbv #	82
26) Hexane	2.813	57	75020	3.214	ppbv #	33
27) Carbon Disulfide	2.143	76	3775	0.137	ppbv #	1
30) Cyclohexane	3.832	84	1946	0.101	ppbv #	74
34) 2-Butanone	2.547	43	16309	0.517	ppbv	94
38) Trichloroethene	4.525	130	2129m	0.115	ppbv	
41) Tetrahydrofuran	3.049	42	2722m	0.167	ppbv	
51) 2-Hexanone	7.415	43	21044m	0.768	ppbv	
52) Tetrachloroethene	8.202	164	3384	0.206	ppbv #	89
53) Toluene	6.904	91	25103	0.559	ppbv	100
58) Ethyl Benzene	9.338	91	10626m	0.141	ppbv	
59) m/p-Xylene	9.513	91	24230m	0.382	ppbv	
60) o-Xylene	9.943	91	16993m	0.269	ppbv	

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

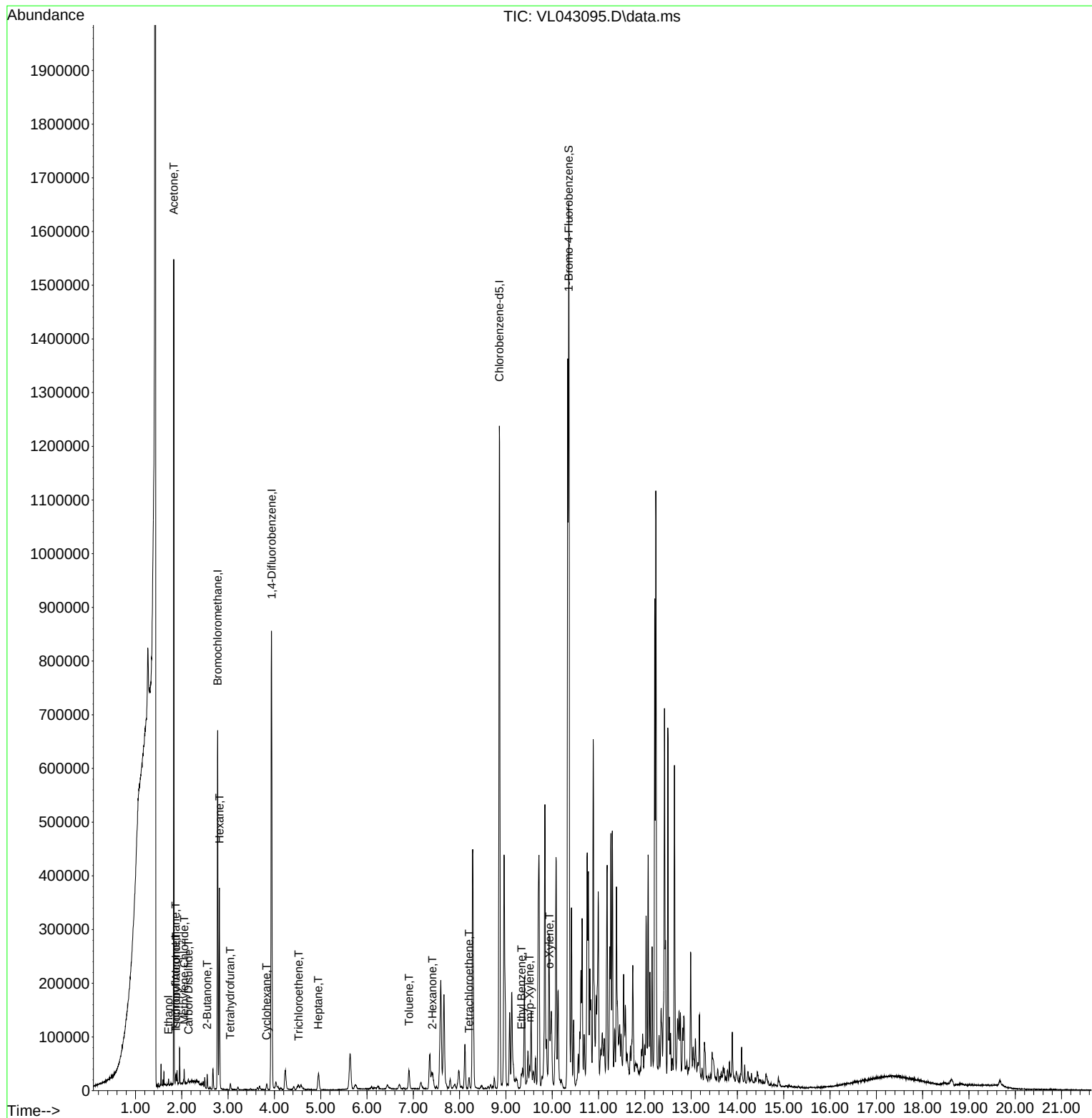
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043095.D
Acq On : 09 Oct 2025 19:29
Operator : SY/MD
Sample : Q3320-08 8X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

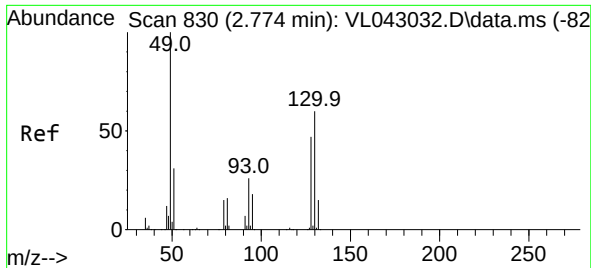
Instrument :
MSVOA_L
ClientSampleId :
SV4

Quant Time: Oct 09 22:20:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

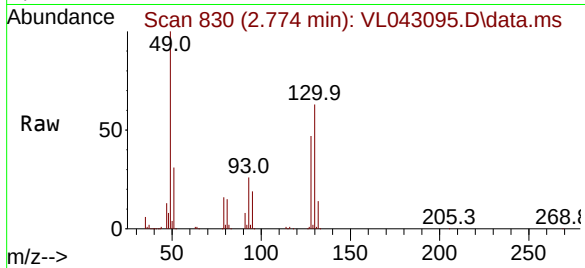
Reviewed By : Semsettin Yesilyurt 10/10/2025
Supervised By : Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

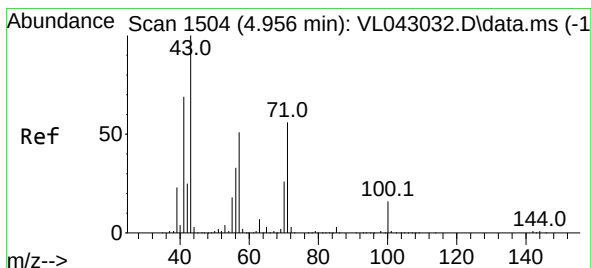
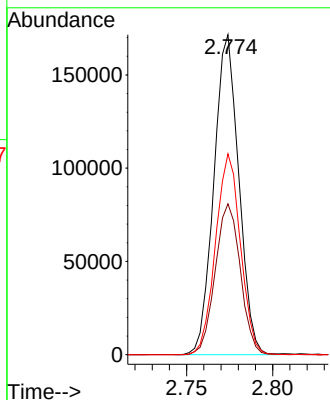
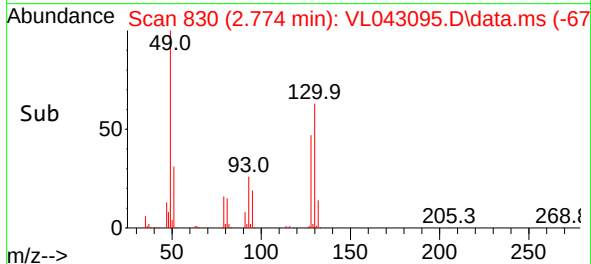
Instrument :
MSVOA_L
ClientSampleId :
SV4



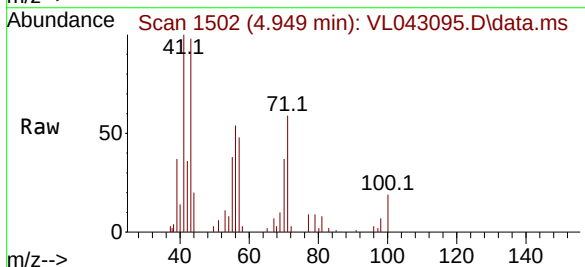
Tgt Ion: 49 Resp: 17272
Ion Ratio Lower Upper
49 100
128 47.6 24.1 72.2
130 62.8 31.4 94.3

Manual Integrations
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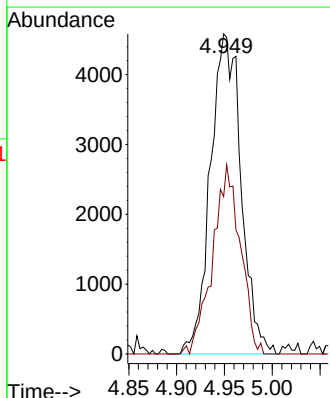
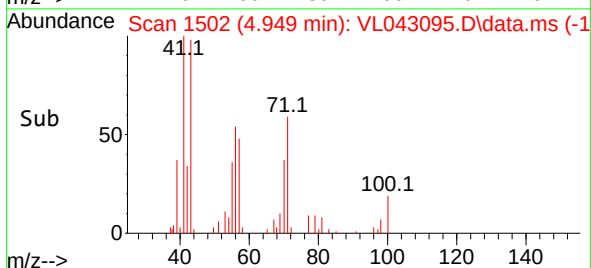
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

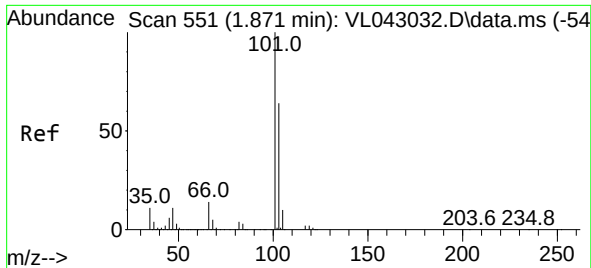


#10
Heptane
Concen: 0.367 ppbv m
RT: 4.949 min Scan# 1502
Delta R.T. -0.006 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29



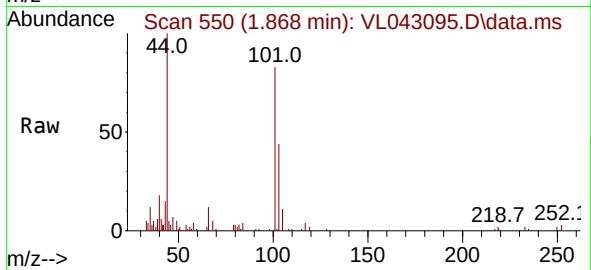
Tgt Ion: 43 Resp: 10235
Ion Ratio Lower Upper
43 100
57 53.3 40.3 60.5





#11
 Trichlorofluoromethane
 Concen: 0.123 ppbv
 RT: 1.868 min Scan# 501
 Delta R.T. -0.003 min
 Lab File: VL043095.D
 Acq: 09 Oct 2025 19:29

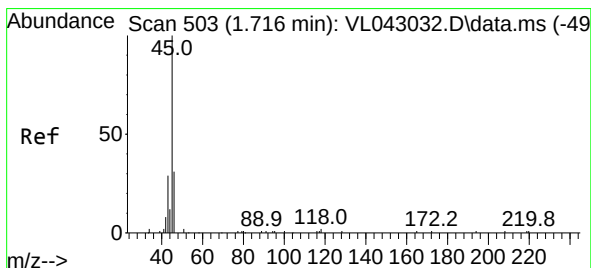
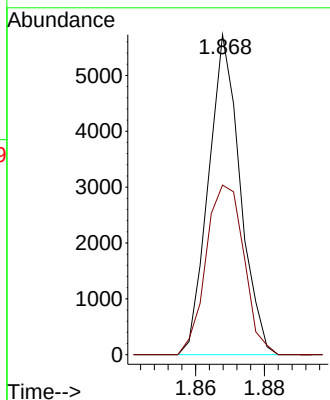
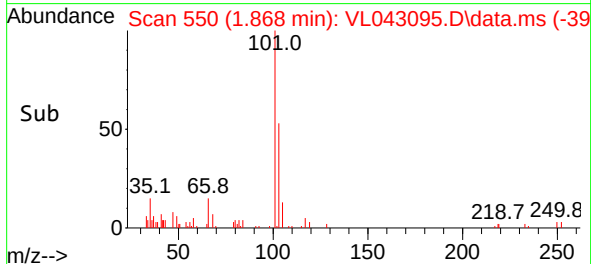
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4



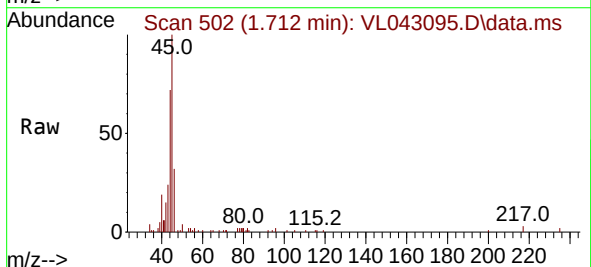
Tgt Ion:101 Resp: 3668
 Ion Ratio Lower Upper
 101 100
 103 53.0 51.1 76.7

Manual Integrations
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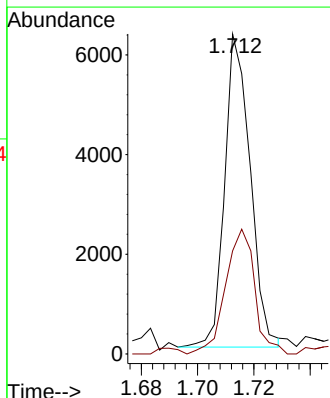
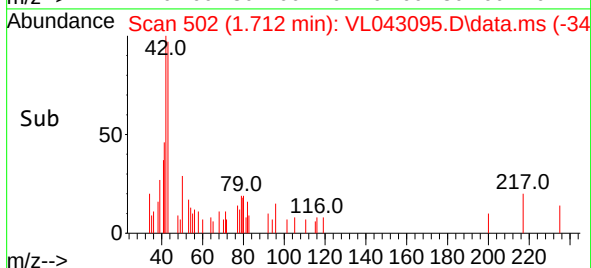
Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025

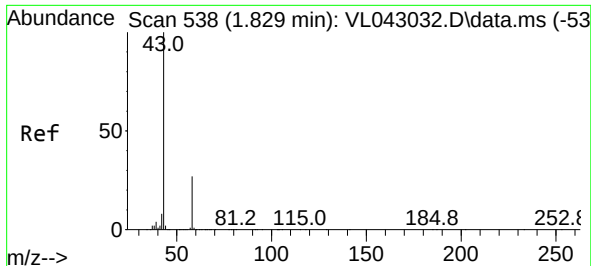


#13
 Ethanol
 Concen: 8.330 ppbv
 RT: 1.712 min Scan# 502
 Delta R.T. -0.004 min
 Lab File: VL043095.D
 Acq: 09 Oct 2025 19:29



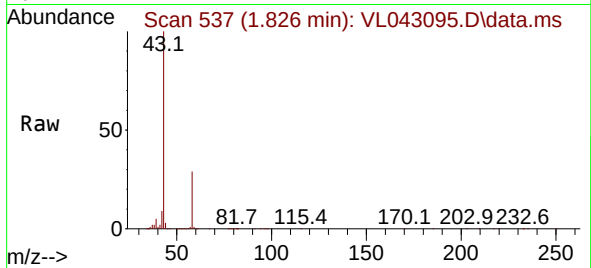
Tgt Ion: 45 Resp: 3950
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.8 71.4#





#15
Acetone
Concen: 26.184 ppbv
RT: 1.826 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

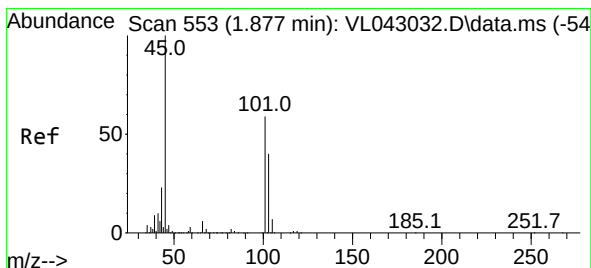
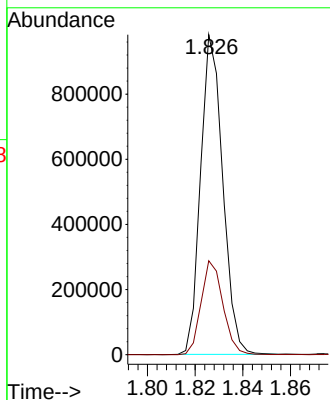
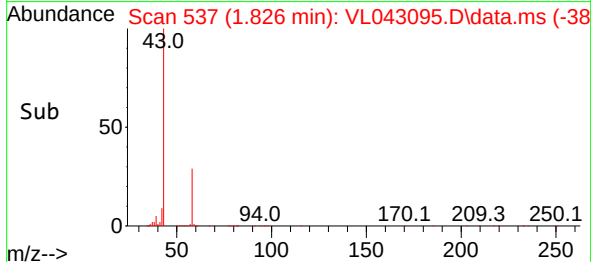
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 43 Resp: 63324
Ion Ratio Lower Upper
43 100
58 29.2 22.2 33.4

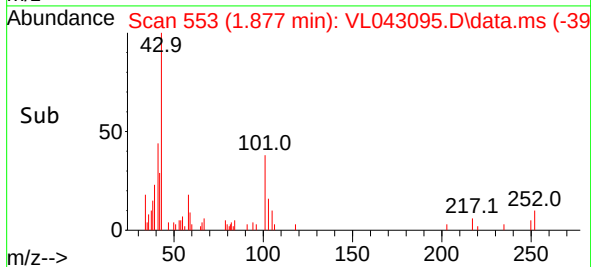
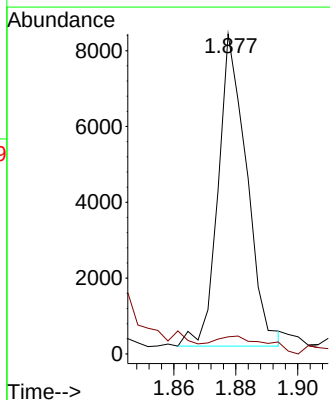
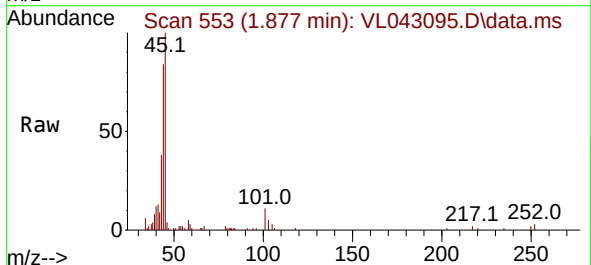
Manual Integrations
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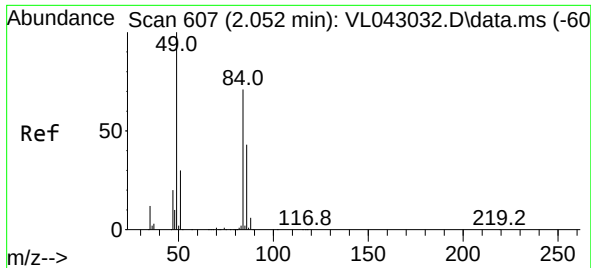
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#19
Isopropyl Alcohol
Concen: 0.455 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

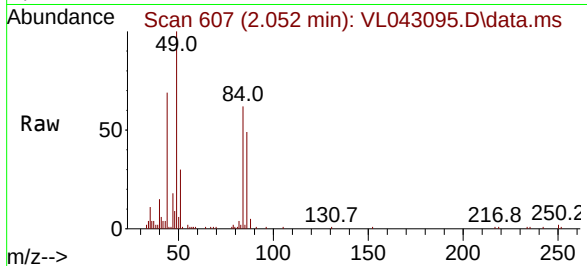
Tgt Ion: 45 Resp: 5270
Ion Ratio Lower Upper
45 100
58 3505.6 42.3 63.5#





#20
Methylene Chloride
Concen: 0.400 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

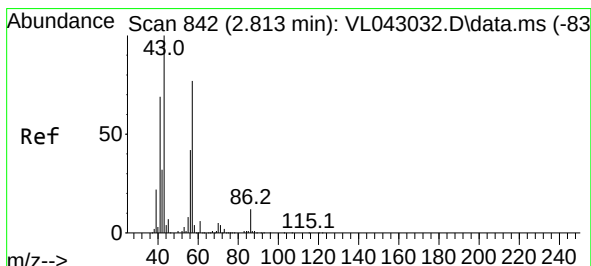
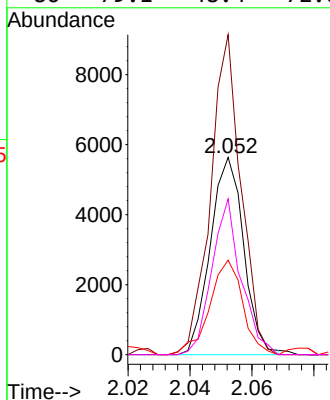
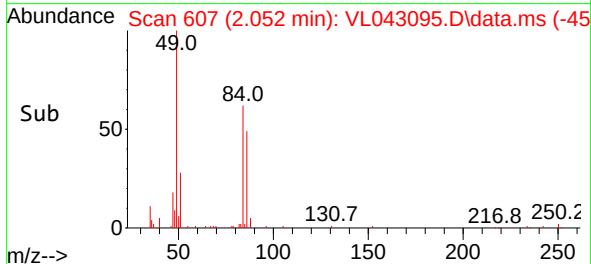
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 84 Resp: 4225
Ion Ratio Lower Upper
84 100
49 162.3 112.5 168.7
51 48.0 34.2 51.2
86 79.1 48.4 72.6#

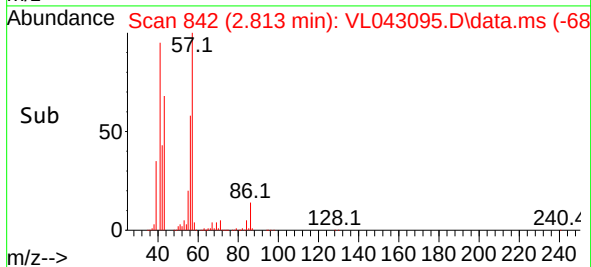
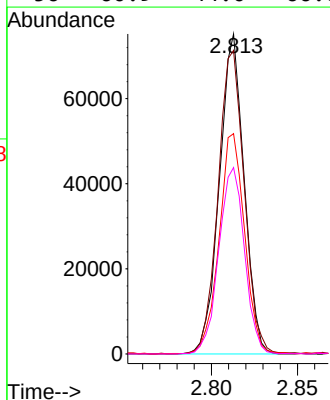
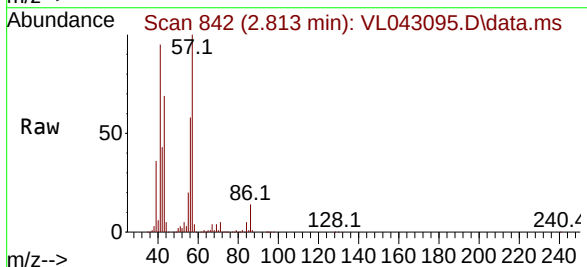
Manual Integrations
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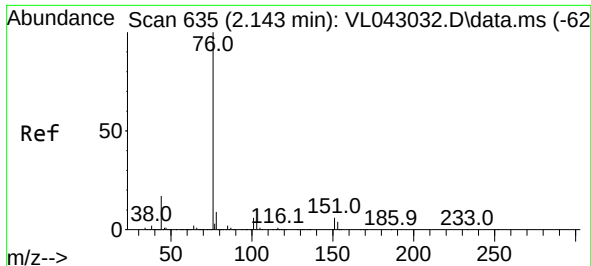
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#26
Hexane
Concen: 3.214 ppbv
RT: 2.813 min Scan# 842
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

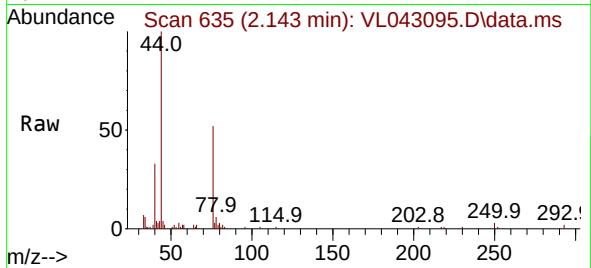
Tgt Ion: 57 Resp: 75020
Ion Ratio Lower Upper
57 100
41 101.8 76.1 114.1
43 71.9 201.4 302.0#
56 60.9 44.0 66.0





#27
Carbon Disulfide
Concen: 0.137 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

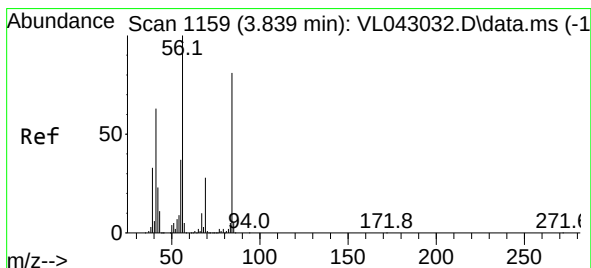
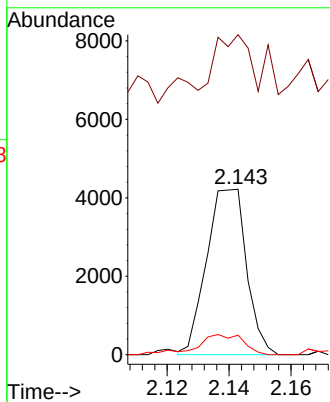
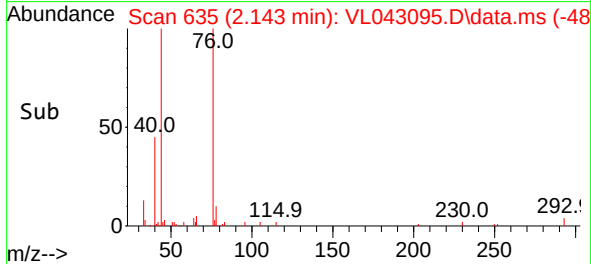
Instrument :
MSVOA_L
ClientSampleId :
SV4



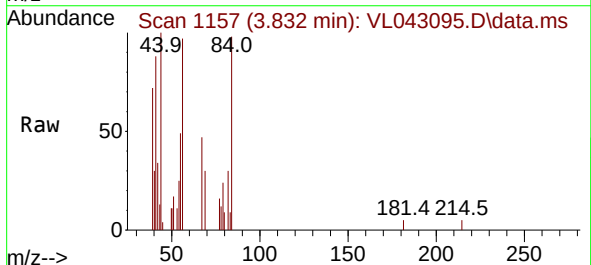
Tgt Ion: 76 Resp: 3775
Ion Ratio Lower Upper
76 100
44 113.8 14.0 21.0
78 14.2 9.4 14.0

Manual Integrations
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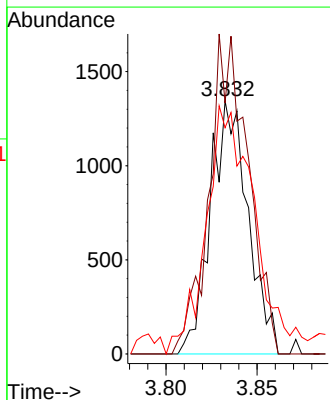
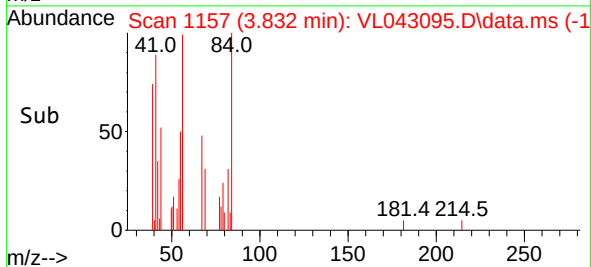
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

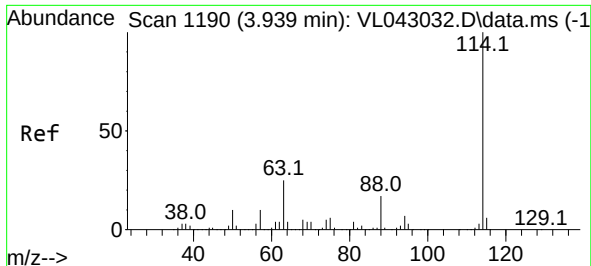


#30
Cyclohexane
Concen: 0.101 ppbv
RT: 3.832 min Scan# 1157
Delta R.T. -0.006 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29



Tgt Ion: 84 Resp: 1946
Ion Ratio Lower Upper
84 100
56 129.9 99.9 149.9
41 133.2 64.2 96.4





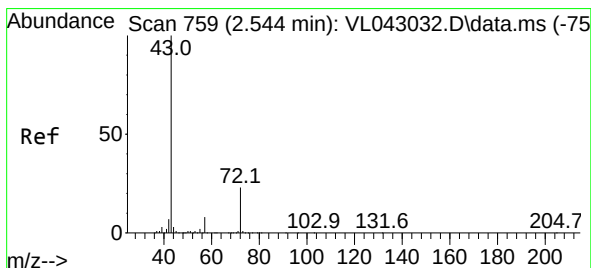
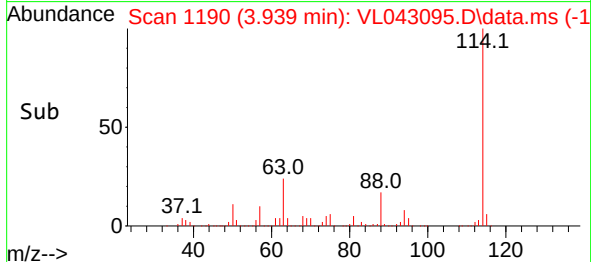
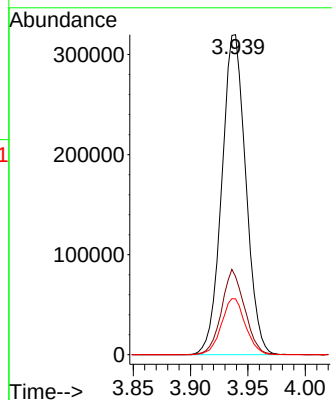
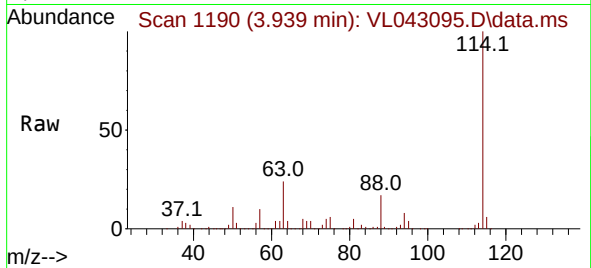
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1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.939 min Scan# 1190
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion:114 Resp: 465309
Ion Ratio Lower Upper
114 100
63 25.6 19.4 29.2
88 17.5 13.9 20.9

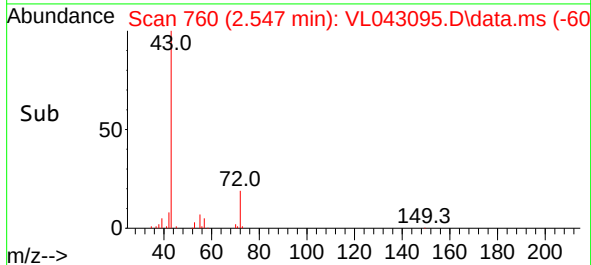
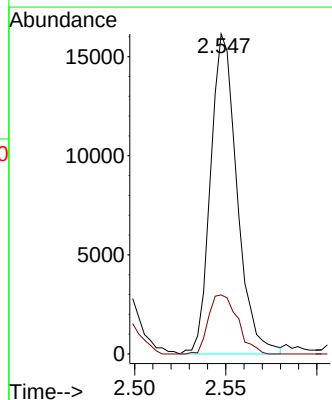
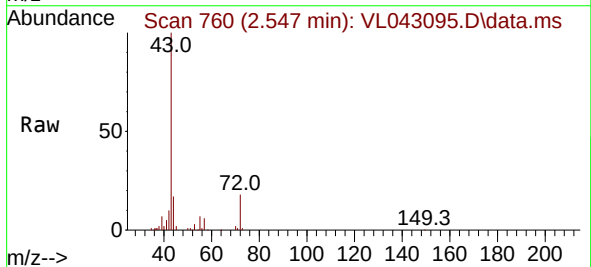
Manual Integrations
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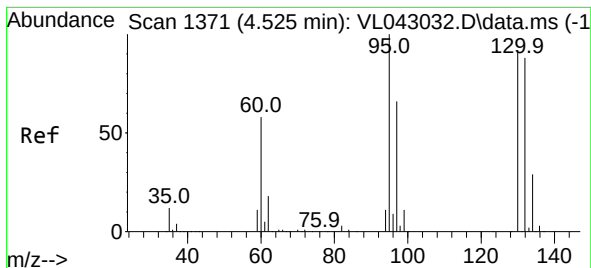
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#34
2-Butanone
Concen: 0.517 ppbv
RT: 2.547 min Scan# 760
Delta R.T. 0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 43 Resp: 16309
Ion Ratio Lower Upper
43 100
72 20.3 18.4 27.6





#38

Trichloroethene

Concen: 0.115 ppbv m

RT: 4.525 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VL043095.D

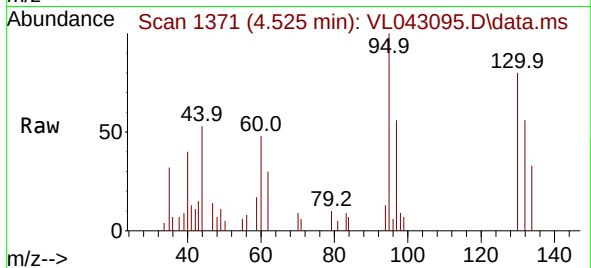
Acq: 09 Oct 2025 19:29

Instrument :

MSVOA_L

ClientSampleId :

SV4



Tgt Ion:130 Resp: 2129

Ion Ratio Lower Upper

130 100

95 124.2 86.4 129.6

132 69.1 75.7 113.5

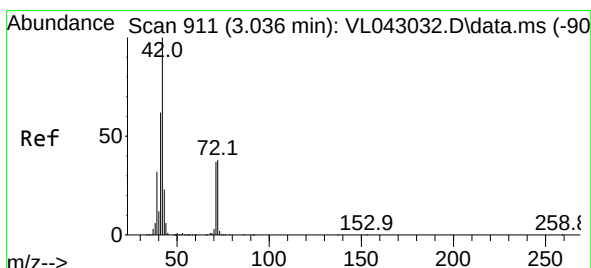
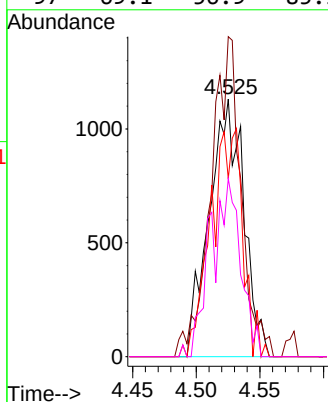
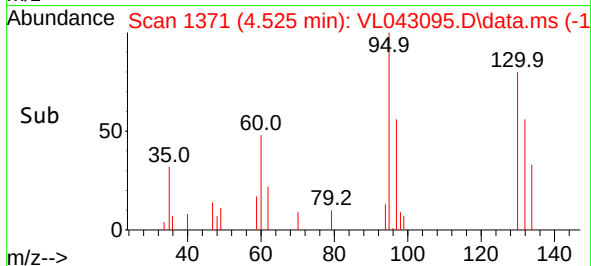
97 69.1 56.9 85.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/10/2025

Supervised By :Mahesh Dadoda 10/10/2025



#41

Tetrahydrofuran

Concen: 0.167 ppbv m

RT: 3.049 min Scan# 915

Delta R.T. 0.013 min

Lab File: VL043095.D

Acq: 09 Oct 2025 19:29

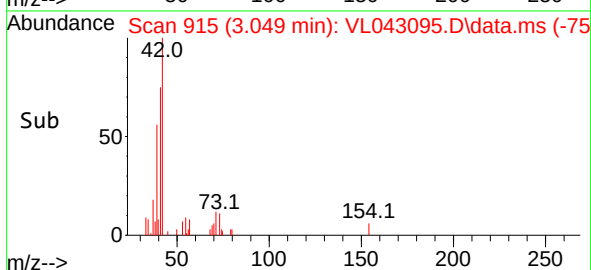
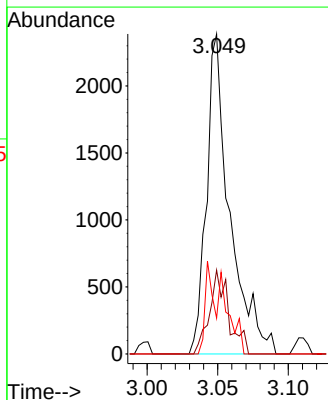
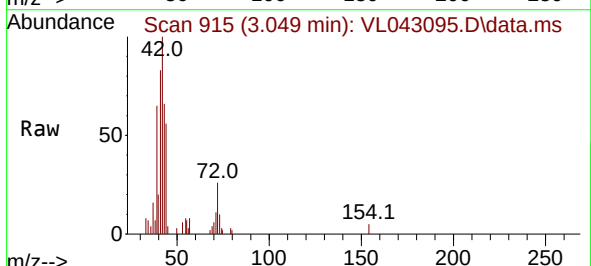
Tgt Ion: 42 Resp: 2722

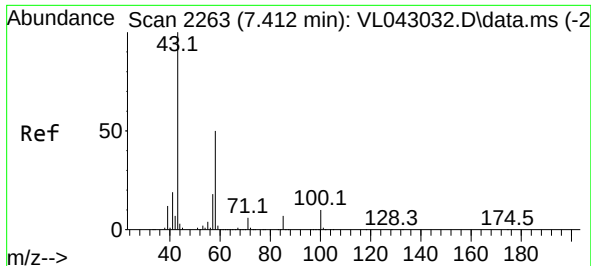
Ion Ratio Lower Upper

42 100

72 0.0 31.0 46.6#

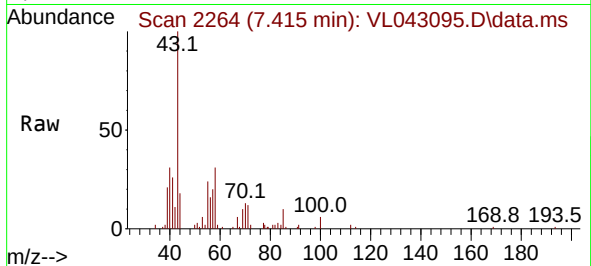
71 0.0 29.8 44.6#





#51
2-Hexanone
Concen: 0.768 ppbv m
RT: 7.415 min Scan# 2104
Delta R.T. 0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

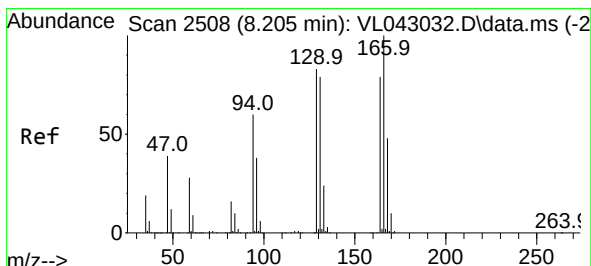
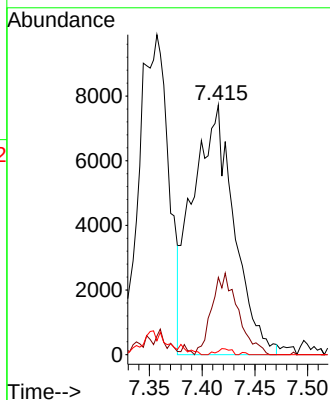
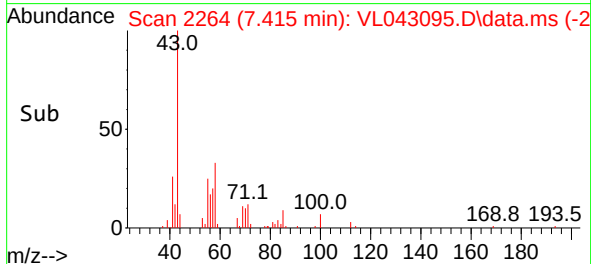
Instrument :
MSVOA_L
ClientSampleId :
SV4



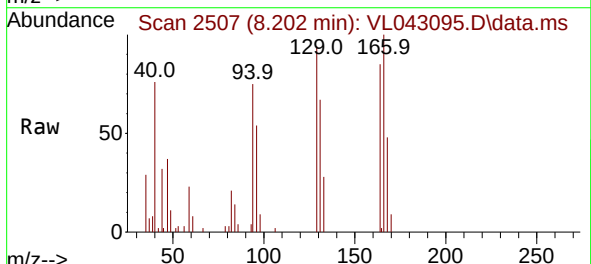
Tgt Ion: 43 Resp: 2104
Ion Ratio Lower Upper
43 100
58 0.0 39.1 58.7
98 0.0 0.5 0.7

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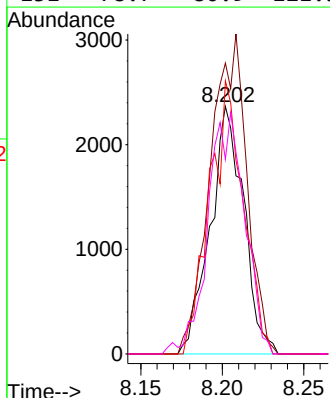
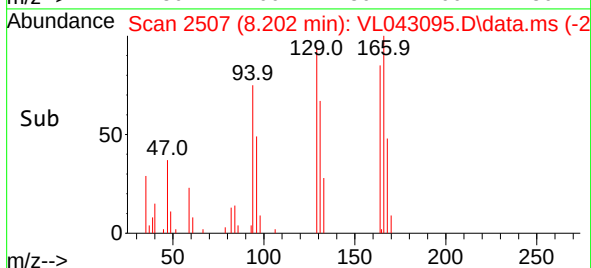
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

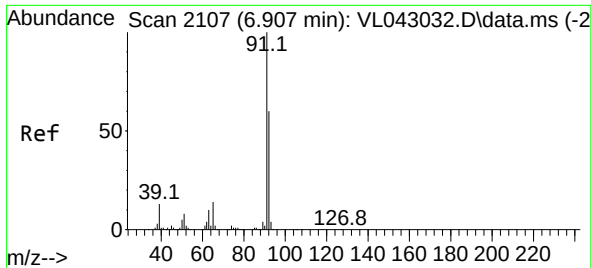


#52
Tetrachloroethene
Concen: 0.206 ppbv
RT: 8.202 min Scan# 2507
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29



Tgt Ion:164 Resp: 3384
Ion Ratio Lower Upper
164 100
166 117.5 101.8 152.8
129 110.4 84.5 126.7
131 78.7 80.9 121.3#





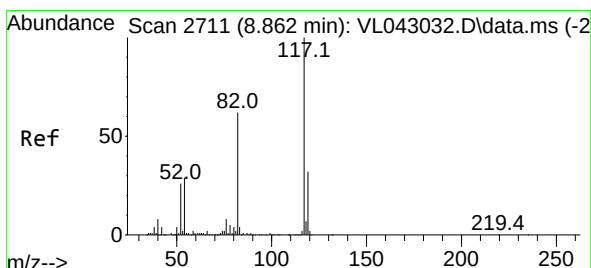
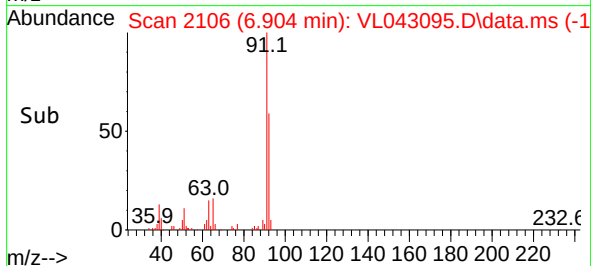
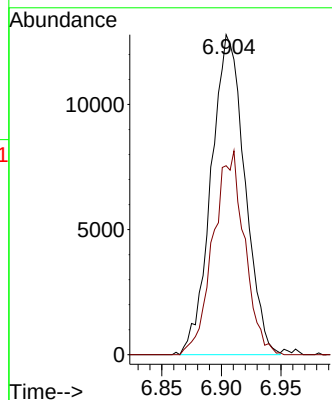
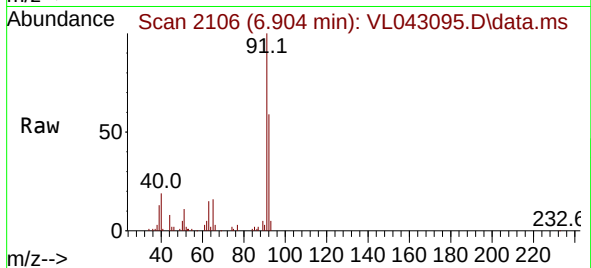
#53
Toluene
Concen: 0.559 ppbv
RT: 6.904 min Scan# 2106
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 91 Resp: 2510
Ion Ratio Lower Upper
91 100
92 59.5 47.8 71.6

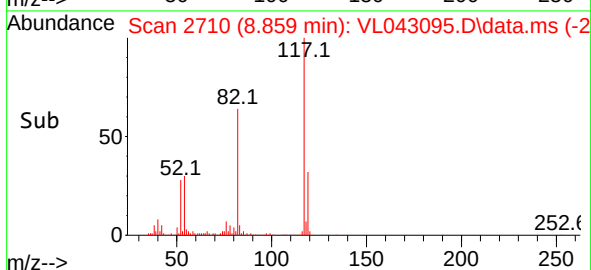
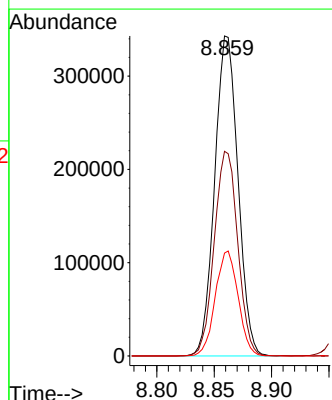
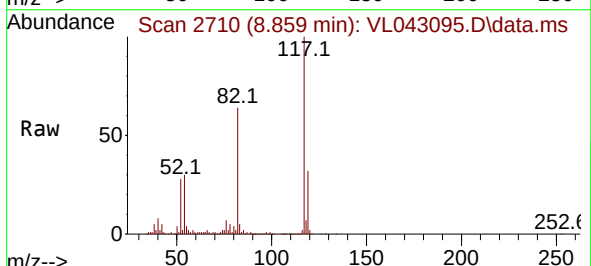
Manual Integrations
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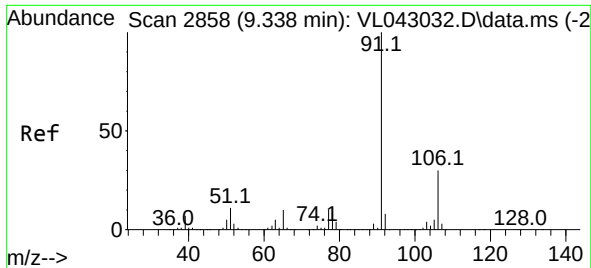
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.859 min Scan# 2710
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

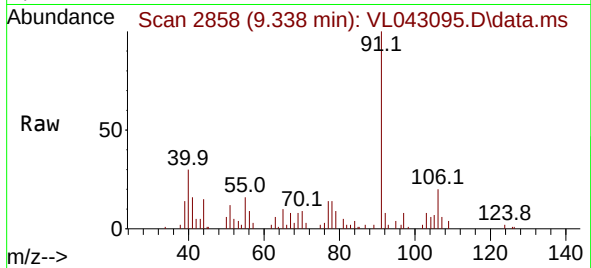
Tgt Ion:117 Resp: 484936
Ion Ratio Lower Upper
117 100
82 64.6 53.0 79.6
119 32.1 25.4 38.2





#58
Ethyl Benzene
Concen: 0.141 ppbv m
RT: 9.338 min Scan# 2858
Delta R.T. 0.000 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

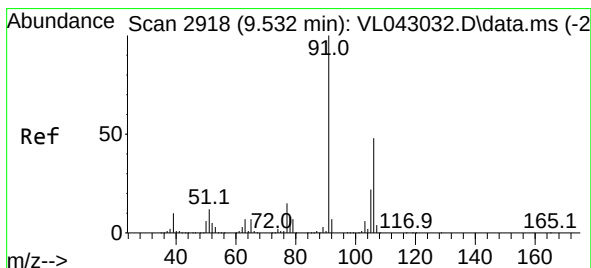
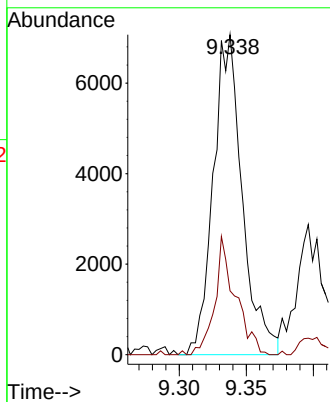
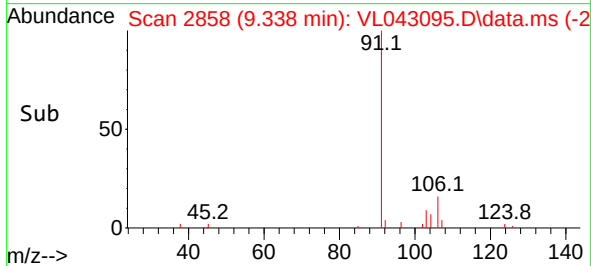
Instrument :
MSVOA_L
ClientSampleId :
SV4



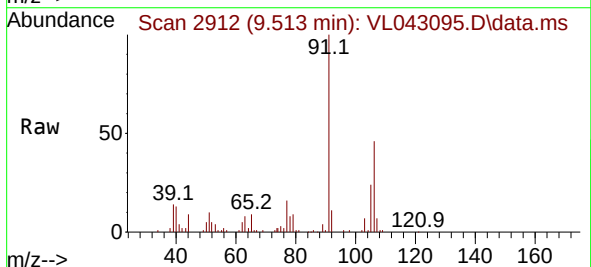
Tgt Ion: 91 Resp: 10620
Ion Ratio Lower Upper
91 100
106 19.9 24.1 36.1

Manual Integrations
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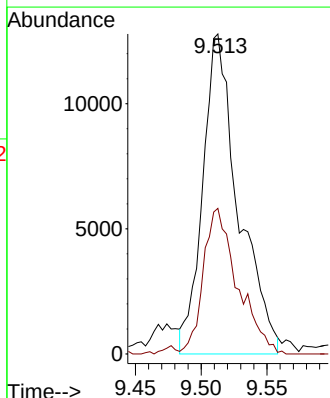
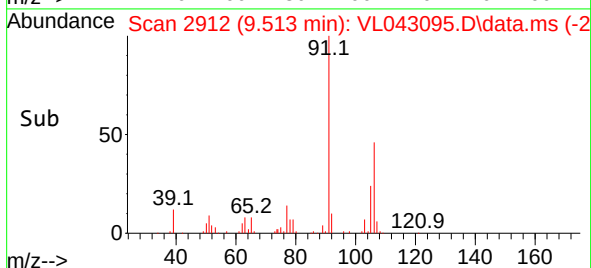
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

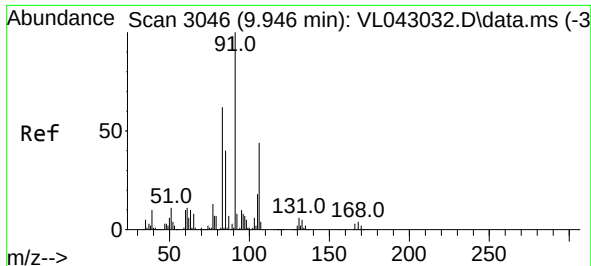


#59
m/p-Xylene
Concen: 0.382 ppbv m
RT: 9.513 min Scan# 2912
Delta R.T. -0.019 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29



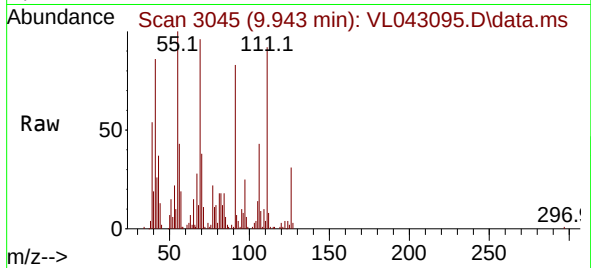
Tgt Ion: 91 Resp: 24230
Ion Ratio Lower Upper
91 100
106 0.0 37.5 56.3





#60
o-Xylene
Concen: 0.269 ppbv m
RT: 9.943 min Scan# 3046
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

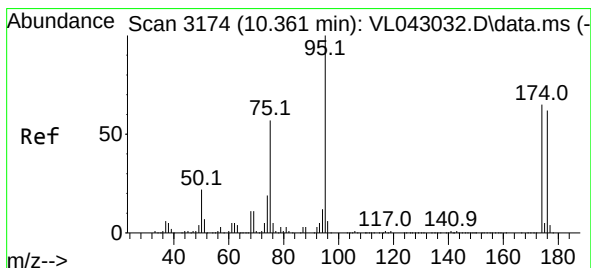
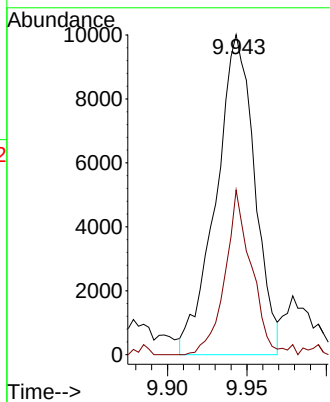
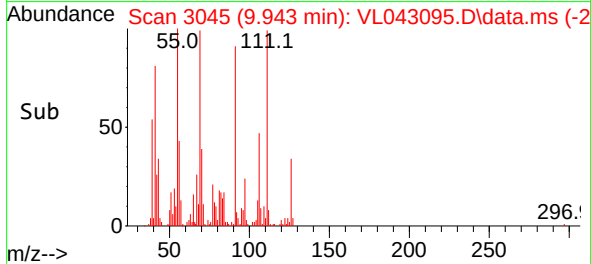
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 91 Resp: 1699
Ion Ratio Lower Upper
91 100
106 35.1 21.9 65.5

Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 11.373 ppbv
RT: 10.357 min Scan# 3173
Delta R.T. -0.003 min
Lab File: VL043095.D
Acq: 09 Oct 2025 19:29

Tgt Ion: 95 Resp: 397319
Ion Ratio Lower Upper
95 100
174 65.0 52.3 78.5
175 4.5 3.8 5.8

