

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043086.D
 Acq On : 09 Oct 2025 13:52
 Operator : SY/MD
 Sample : Q3320-11
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA6

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 22:15:24 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	2.777	49	194363	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	513990	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	433895	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	336046	10.751	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	13785	0.421	ppbv	98
3) Chlorodifluoromethane	1.473	51	8559m	0.270	ppbv	
4) Chloromethane	1.528	50	5462	0.456	ppbv	99
9) Propene	1.483	41	7754m	0.607	ppbv	
11) Trichlorofluoromethane	1.874	101	6810	0.202	ppbv	89
13) Ethanol	1.716	45	86892	186.390	ppbv	89
15) Acetone	1.829	43	236906	8.705	ppbv	100
19) Isopropyl Alcohol	1.881	45	178943	13.724	ppbv #	29
20) Methylene Chloride	2.056	84	6285	0.529	ppbv	95
26) Hexane	2.819	57	7381	0.281	ppbv #	40
29) Chloroform	2.839	83	9745	0.218	ppbv	99
34) 2-Butanone	2.551	43	6124	0.176	ppbv	95
35) Carbon Tetrachloride	3.748	117	2953m	0.070	ppbv	
53) Toluene	6.911	91	14195	0.286	ppbv	100
59) m/p-Xylene	9.519	91	14504m	0.256	ppbv	
79) Naphthalene	13.504	128	914	0.251	ppbv #	93

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

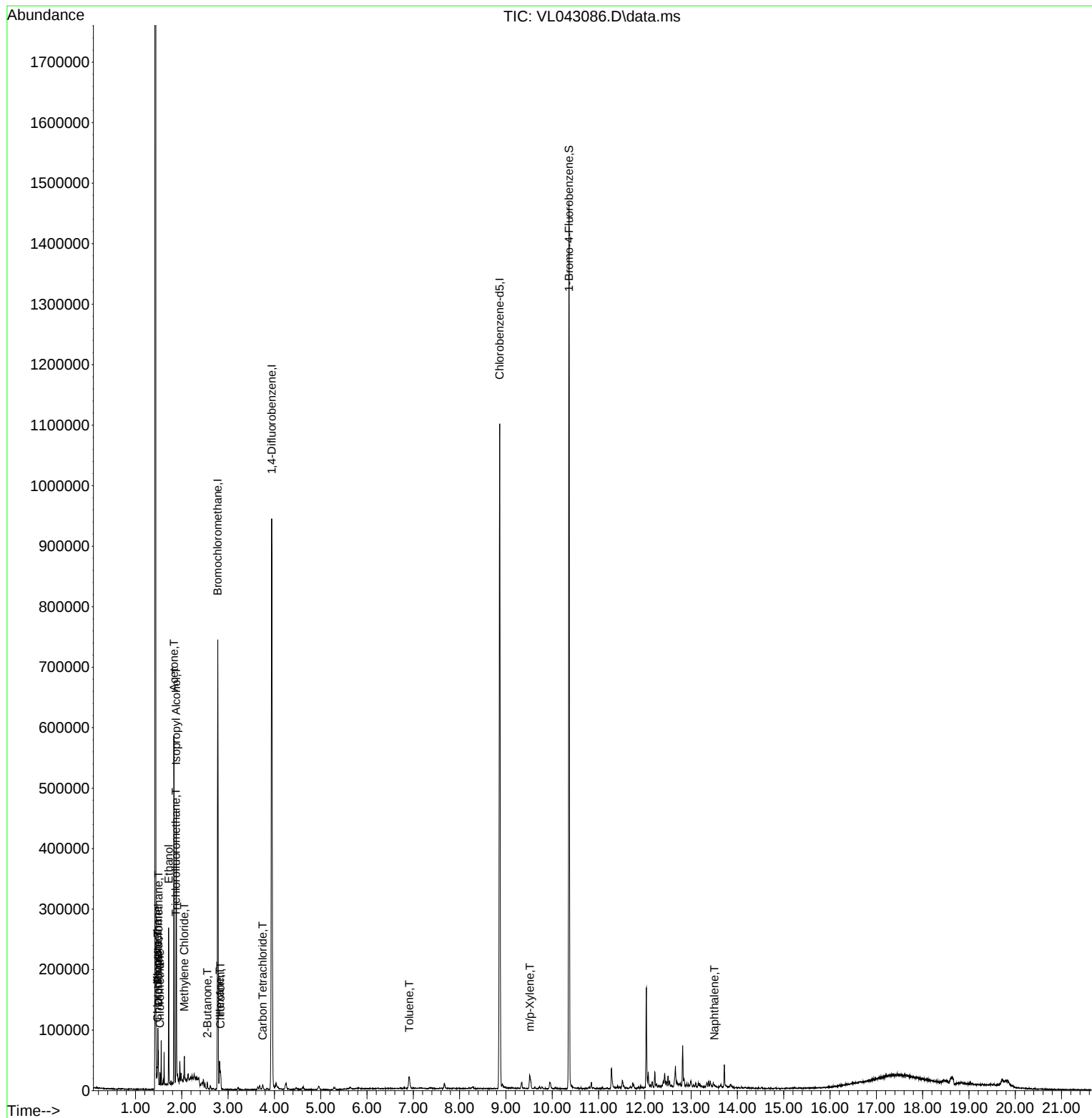
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043086.D
Acq On : 09 Oct 2025 13:52
Operator : SY/MD
Sample : Q3320-11
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

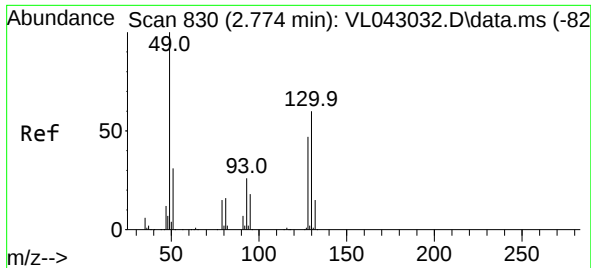
Instrument :
MSVOA_L
ClientSampleId :
IA6

Quant Time: Oct 09 22:15:24 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

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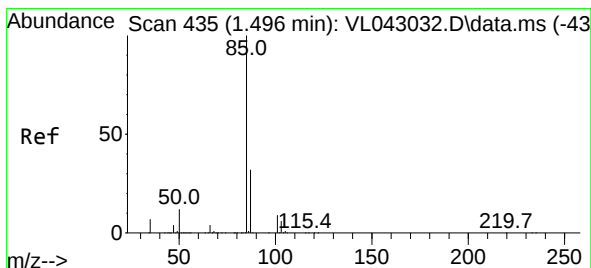
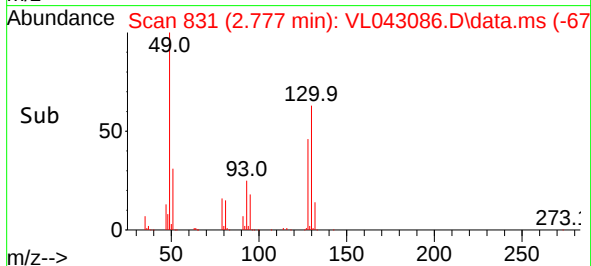
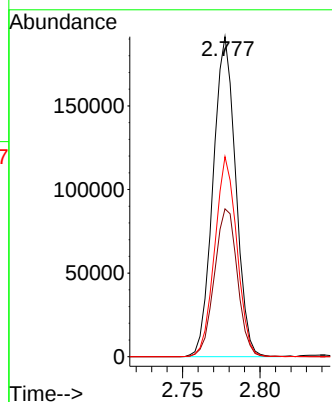
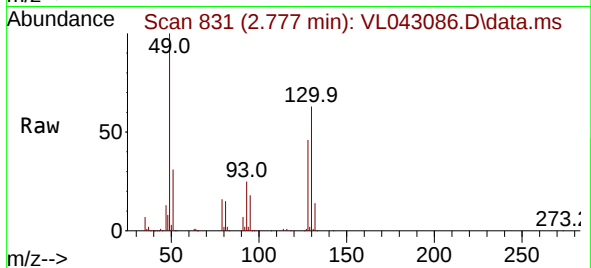
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
IA6

Tgt Ion: 49 Resp: 19436
Ion Ratio Lower Upper
49 100
128 47.0 24.1 72.2
130 61.2 31.4 94.3

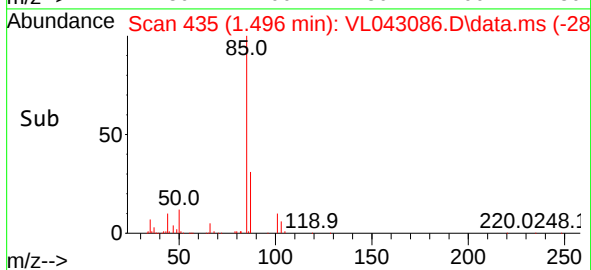
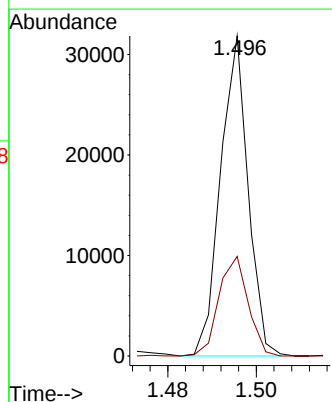
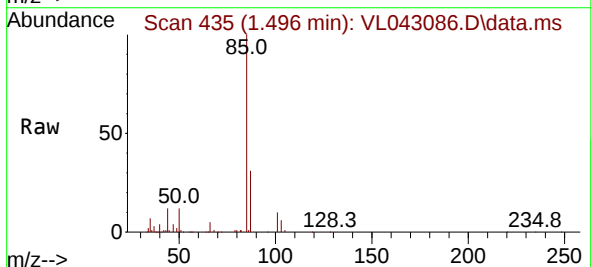
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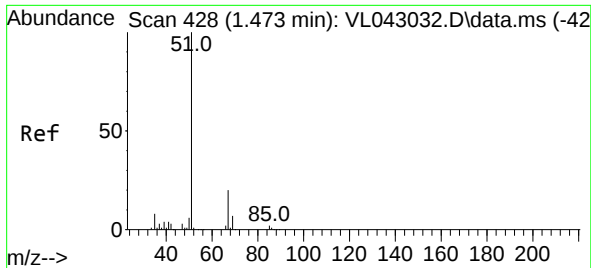
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 0.421 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.000 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

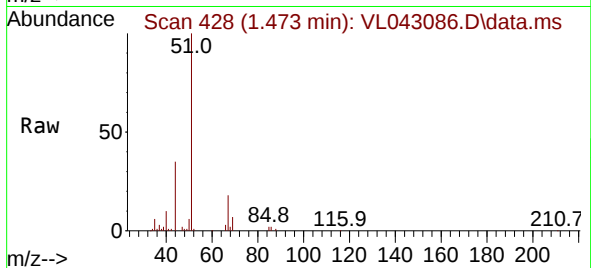
Tgt Ion: 85 Resp: 13785
Ion Ratio Lower Upper
85 100
87 31.1 25.8 38.6





#3
Chlorodifluoromethane
Concen: 0.270 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. 0.000 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

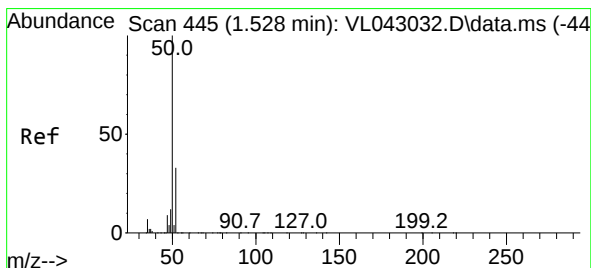
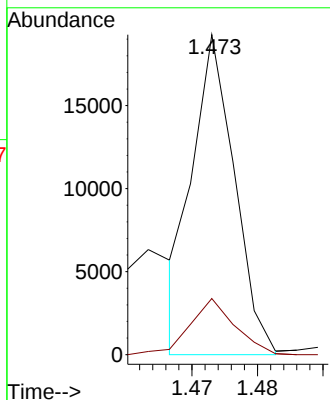
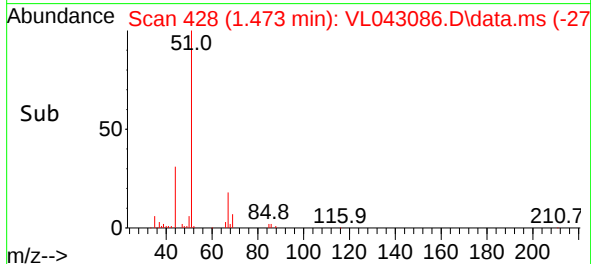
Instrument :
MSVOA_L
ClientSampleId :
IA6



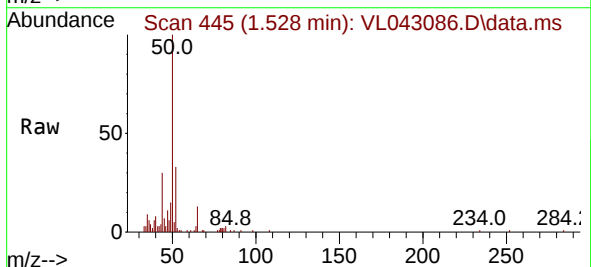
Tgt Ion: 51 Resp: 8559
Ion Ratio Lower Upper
51 100
67 19.0 15.1 22.7

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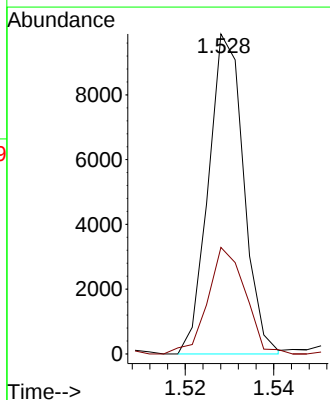
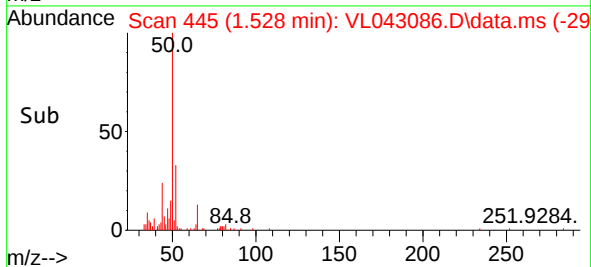
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

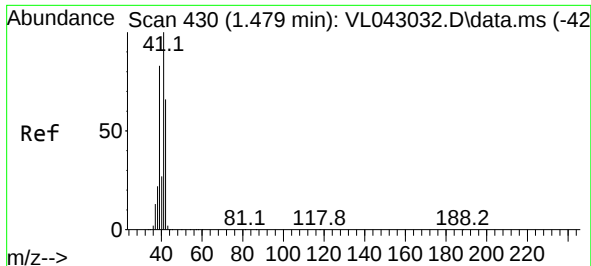


#4
Chloromethane
Concen: 0.456 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52



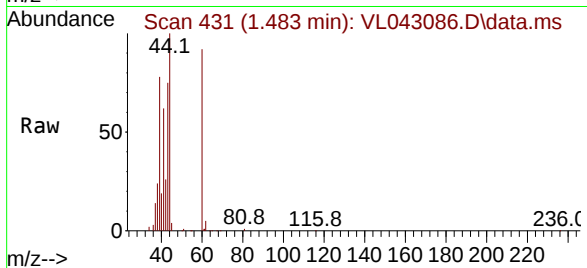
Tgt Ion: 50 Resp: 5462
Ion Ratio Lower Upper
50 100
52 32.0 26.2 39.2





#9
 Propene
 Concen: 0.607 ppbv m
 RT: 1.483 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL043086.D
 Acq: 09 Oct 2025 13:52

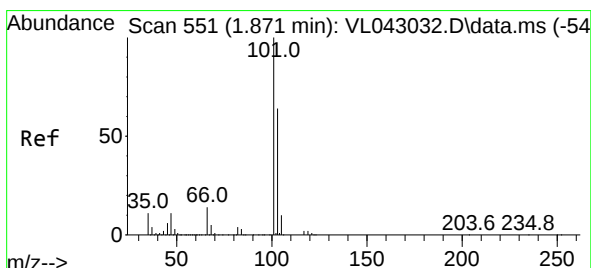
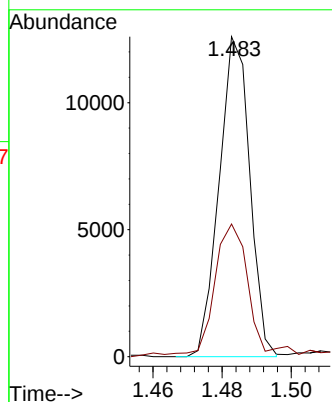
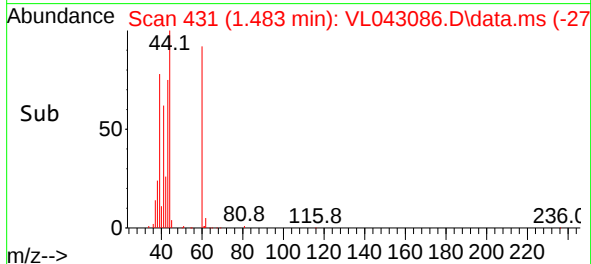
Instrument :
 MSVOA_L
 ClientSampleId :
 IA6



Tgt Ion: 41 Resp: 7754
 Ion Ratio Lower Upper
 41 100
 42 162.3 53.3 79.9

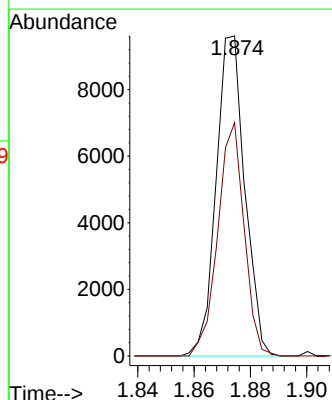
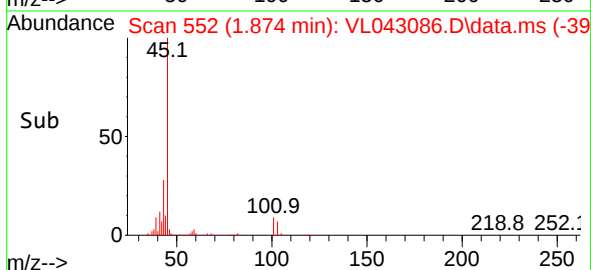
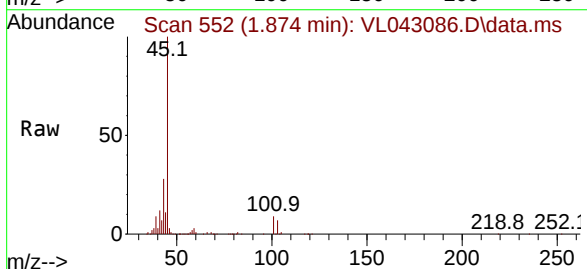
Manual Integrations
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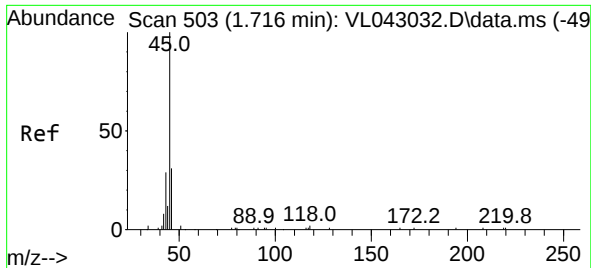
Reviewed By :Semsettin Yesilyurt 10/10/2025
 Supervised By :Mahesh Dadoda 10/10/2025



#11
 Trichlorofluoromethane
 Concen: 0.202 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. 0.003 min
 Lab File: VL043086.D
 Acq: 09 Oct 2025 13:52

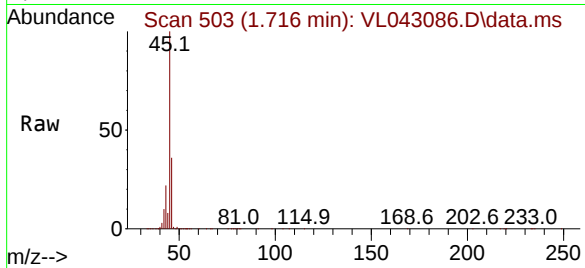
Tgt Ion:101 Resp: 6810
 Ion Ratio Lower Upper
 101 100
 103 72.9 51.1 76.7





#13
Ethanol
Concen: 186.390 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

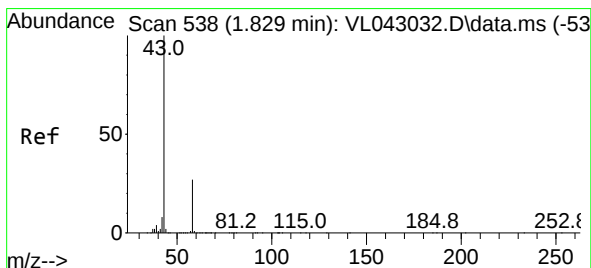
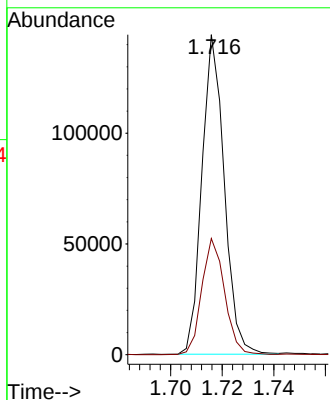
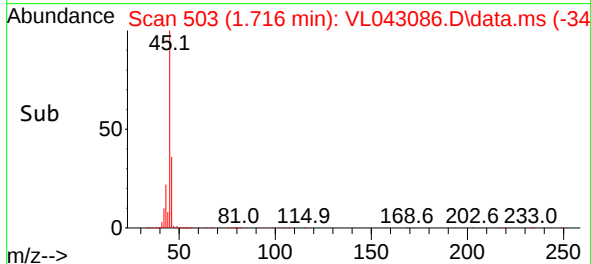
Instrument :
MSVOA_L
ClientSampleId :
IA6



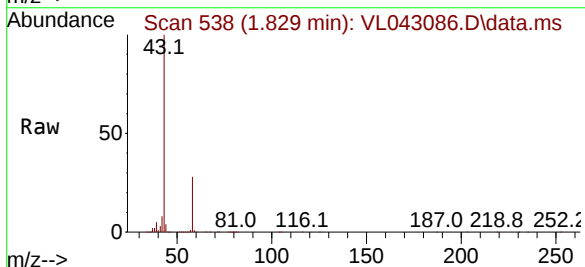
Tgt Ion: 45 Resp: 86892
Ion Ratio Lower Upper
45 100
46 37.4 17.8 71.4

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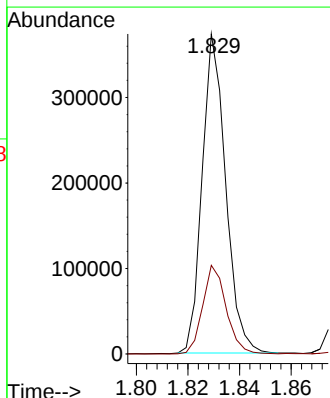
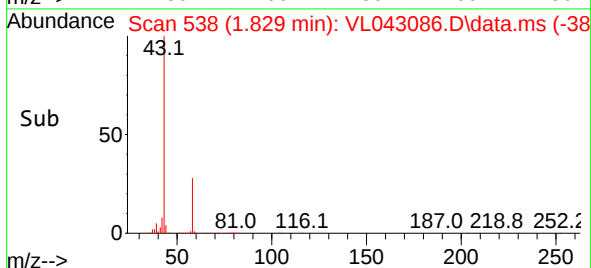
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

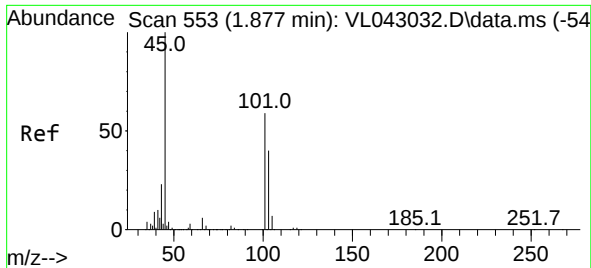


#15
Acetone
Concen: 8.705 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52



Tgt Ion: 43 Resp: 236906
Ion Ratio Lower Upper
43 100
58 27.7 22.2 33.4





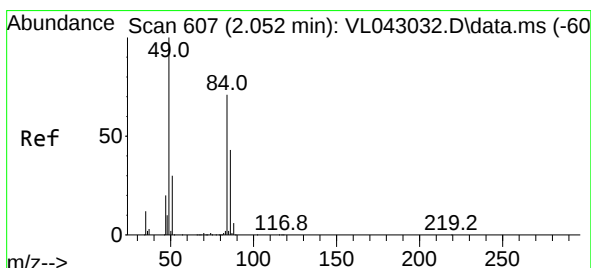
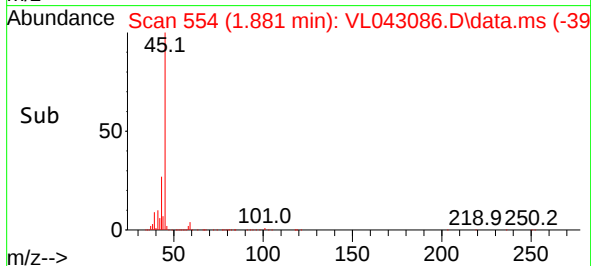
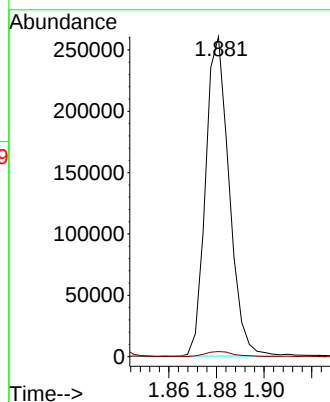
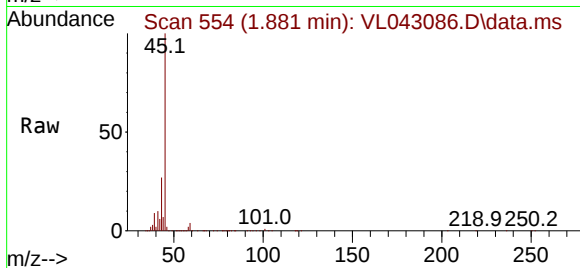
#19
Isopropyl Alcohol
Concen: 13.724 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
IA6

Tgt Ion: 45 Resp: 17894
Ion Ratio Lower Upper
45 100
58 2.4 42.3 63.5

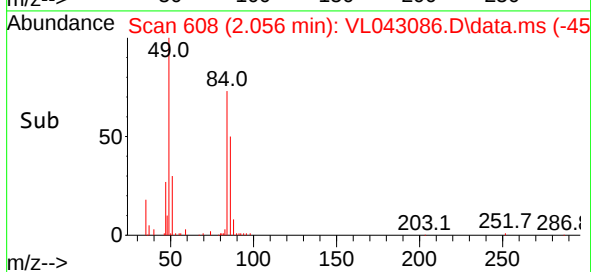
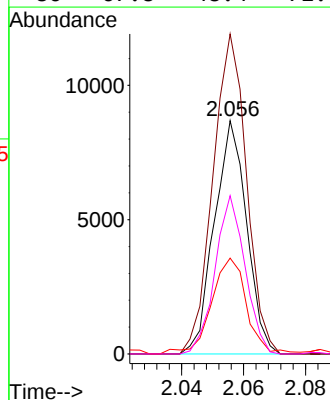
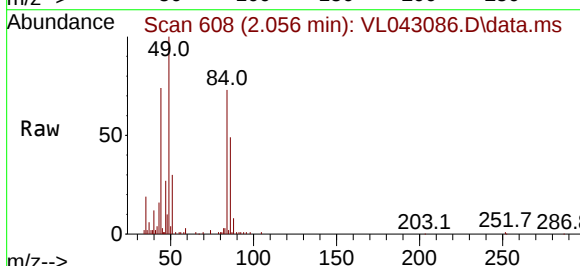
Manual Integrations
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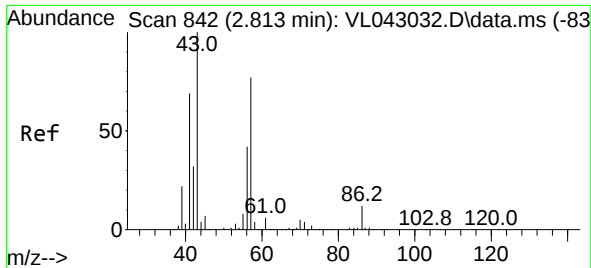
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.529 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

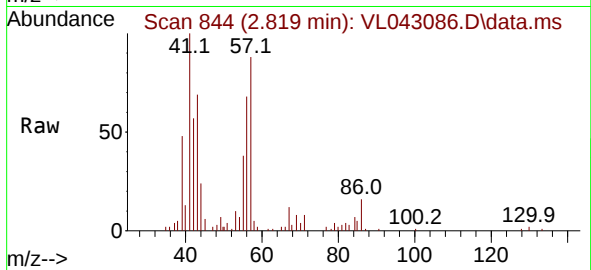
Tgt Ion: 84 Resp: 6285
Ion Ratio Lower Upper
84 100
49 137.2 112.5 168.7
51 39.4 34.2 51.2
86 67.8 48.4 72.6





#26
Hexane
Concen: 0.281 ppbv
RT: 2.819 min Scan# 842
Delta R.T. 0.007 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

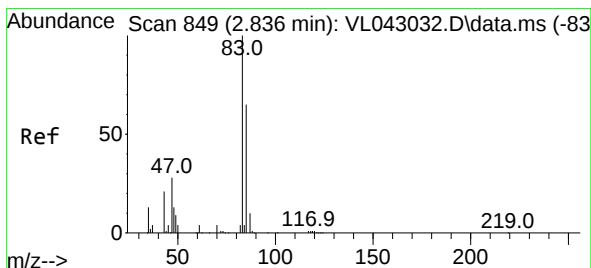
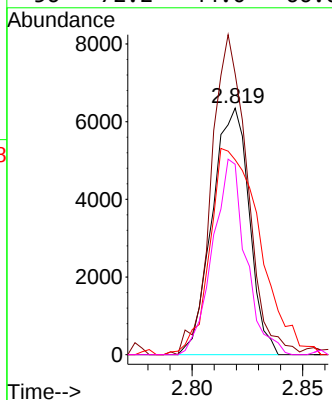
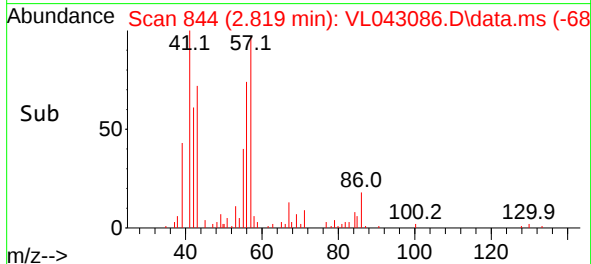
Instrument :
MSVOA_L
ClientSampleId :
IA6



Tgt Ion: 57 Resp: 738
Ion Ratio Lower Upper
57 100
41 127.3 76.1 114.1
43 114.0 201.4 302.0
56 72.2 44.0 66.0

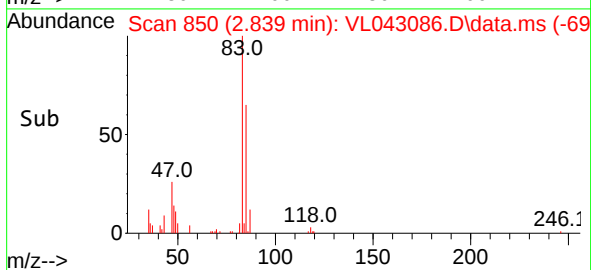
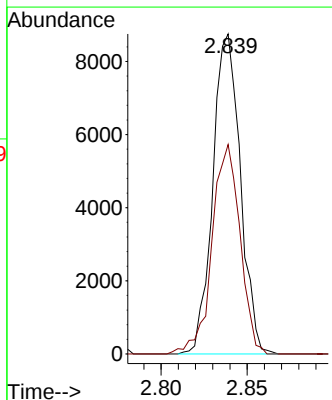
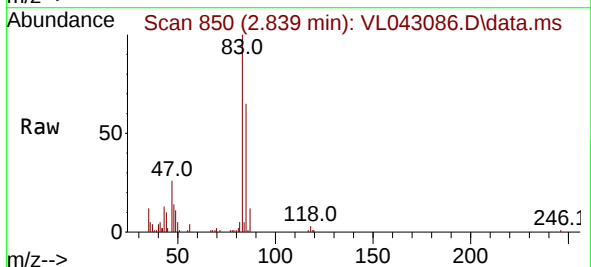
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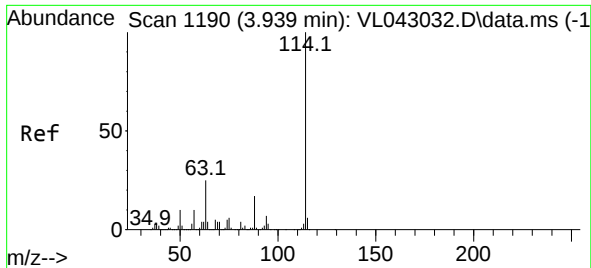
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#29
Chloroform
Concen: 0.218 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.003 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

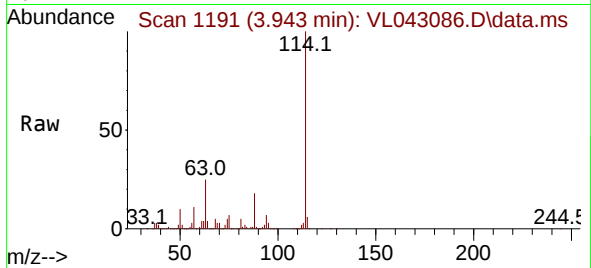
Tgt Ion: 83 Resp: 9745
Ion Ratio Lower Upper
83 100
85 65.5 52.0 78.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1190
Delta R.T. 0.003 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

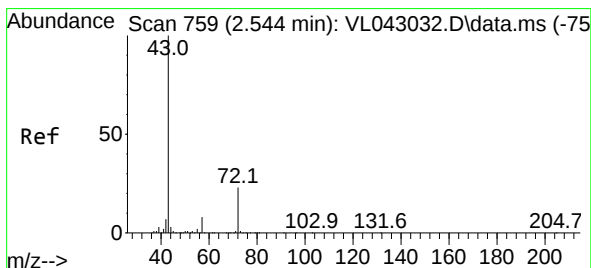
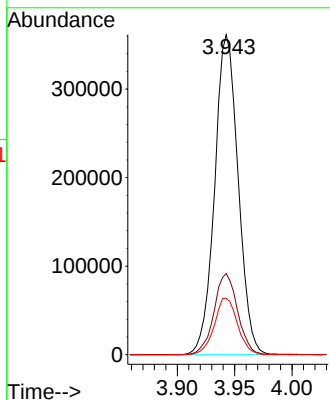
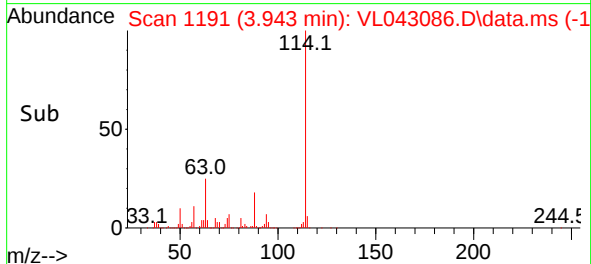
Instrument :
MSVOA_L
ClientSampleId :
IA6



Tgt Ion:114 Resp: 513990
Ion Ratio Lower Upper
114 100
63 25.6 19.4 29.2
88 17.5 13.9 20.9

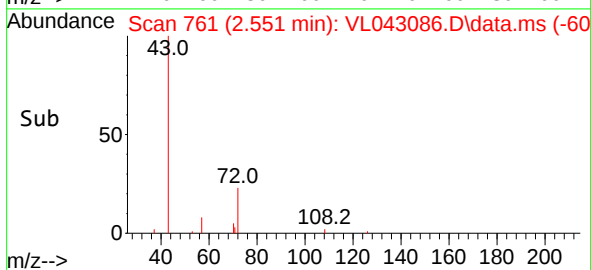
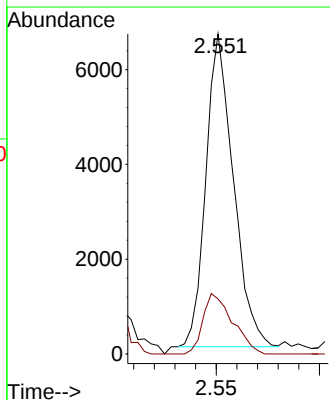
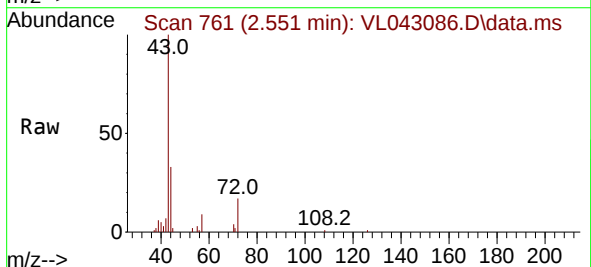
Manual Integrations
APPROVED

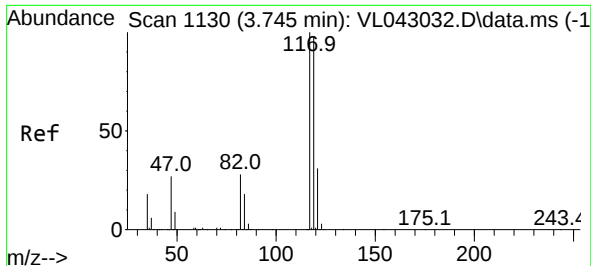
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#34
2-Butanone
Concen: 0.176 ppbv
RT: 2.551 min Scan# 761
Delta R.T. 0.007 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

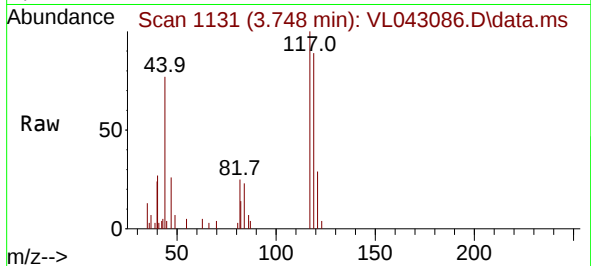
Tgt Ion: 43 Resp: 6124
Ion Ratio Lower Upper
43 100
72 20.8 18.4 27.6





#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 3.748 min Scan# 1130
Delta R.T. 0.003 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

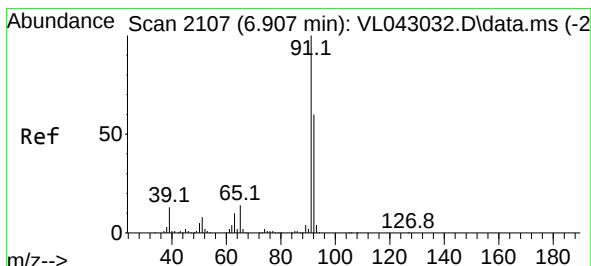
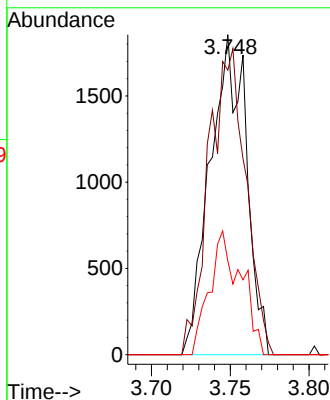
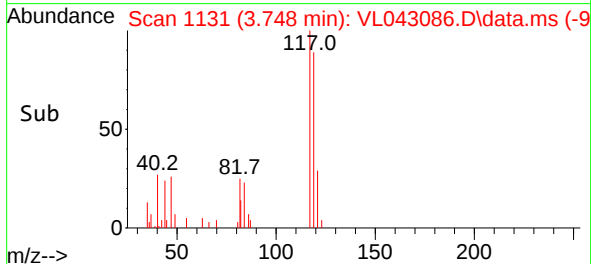
Instrument :
MSVOA_L
ClientSampleId :
IA6



Tgt Ion:117 Resp: 295
Ion Ratio Lower Upper
117 100
119 88.9 78.2 117.4
121 29.3 24.8 37.2

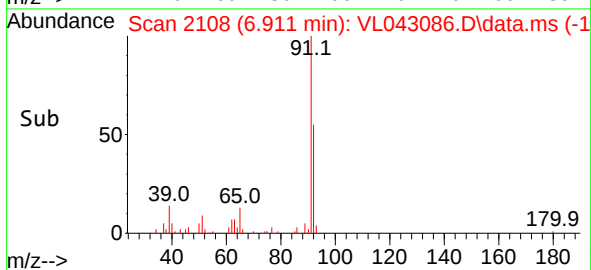
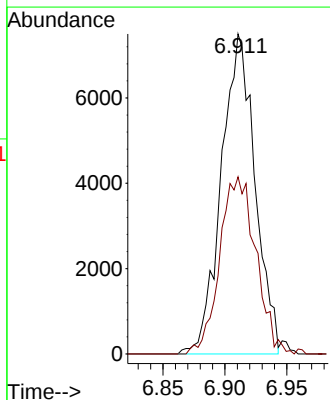
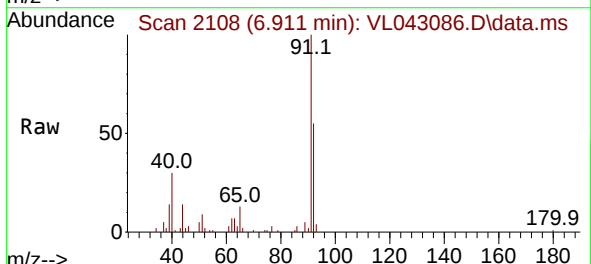
Manual Integrations
APPROVED

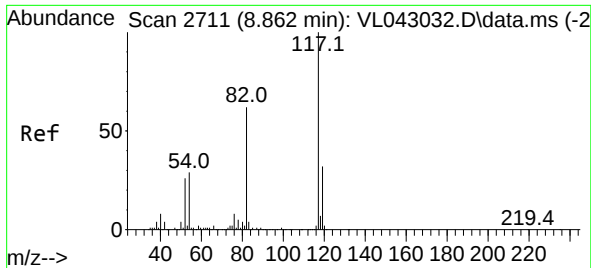
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#53
Toluene
Concen: 0.286 ppbv
RT: 6.911 min Scan# 2108
Delta R.T. 0.003 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

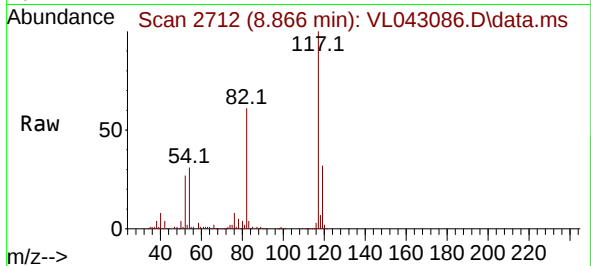
Tgt Ion: 91 Resp: 14195
Ion Ratio Lower Upper
91 100
92 59.6 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.866 min Scan# 2711
Delta R.T. 0.003 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

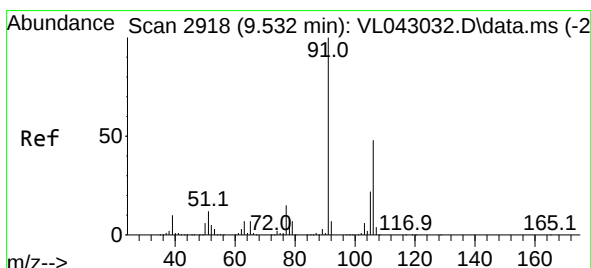
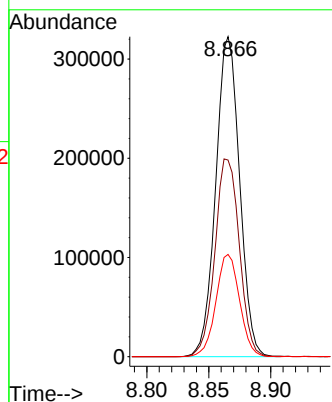
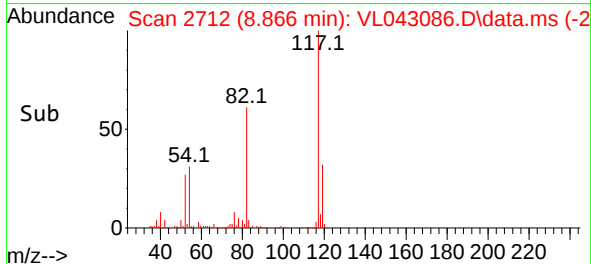
Instrument :
MSVOA_L
ClientSampleId :
IA6



Tgt Ion: 117 Resp: 43389
Ion Ratio Lower Upper
117 100
82 63.3 53.0 79.6
119 31.7 25.4 38.2

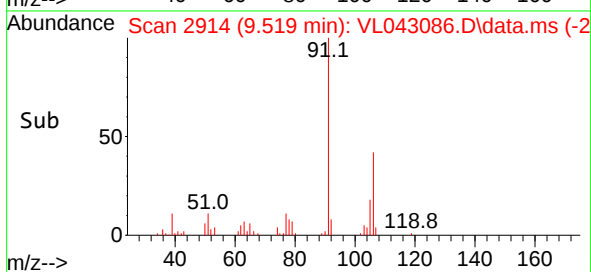
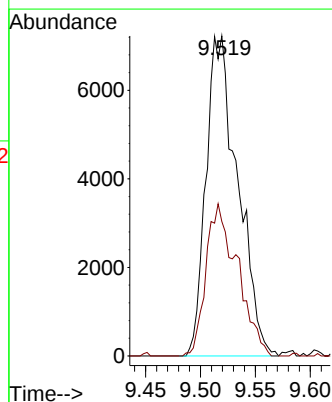
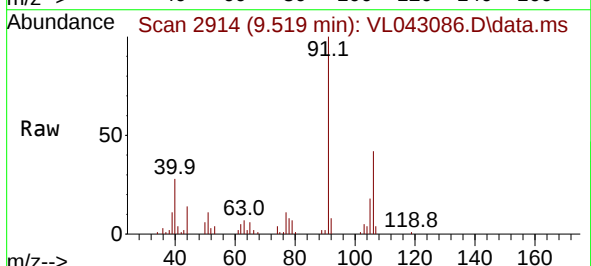
Manual Integrations
APPROVED

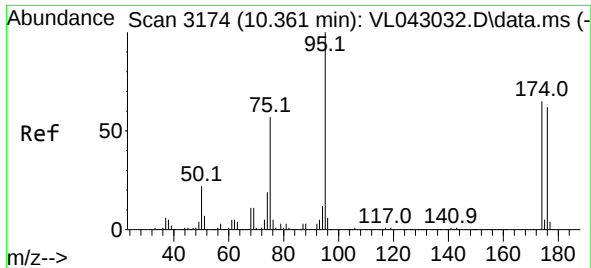
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#59
m/p-Xylene
Concen: 0.256 ppbv m
RT: 9.519 min Scan# 2914
Delta R.T. -0.013 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

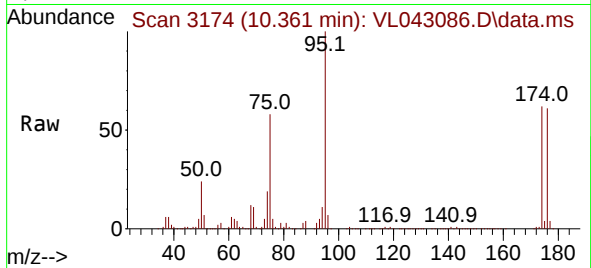
Tgt Ion: 91 Resp: 14504
Ion Ratio Lower Upper
91 100
106 47.1 37.5 56.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.751 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. 0.000 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

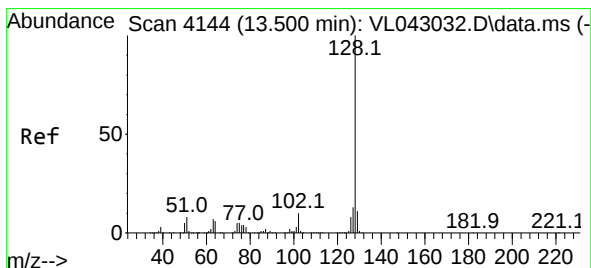
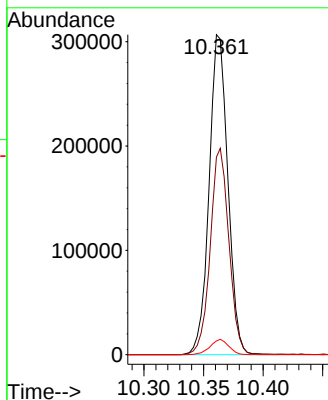
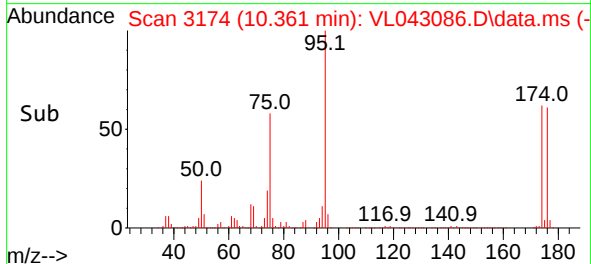
Instrument :
MSVOA_L
ClientSampleId :
IA6



Tgt Ion: 95 Resp: 336040
Ion Ratio Lower Upper
95 100
174 64.5 52.3 78.5
175 4.8 3.8 5.8

Manual Integrations
APPROVED

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



#79
Naphthalene
Concen: 0.251 ppbv
RT: 13.504 min Scan# 4145
Delta R.T. 0.004 min
Lab File: VL043086.D
Acq: 09 Oct 2025 13:52

Tgt Ion:128 Resp: 914
Ion Ratio Lower Upper
128 100
127 13.6 10.6 16.0
129 16.8 8.8 13.2#

