

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042894.D
 Acq On : 04 Sep 2025 17:29
 Operator : SY/MD
 Sample : Q3000-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:24:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	124375	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	330230	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.901	117	278452	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	215513	10.320	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	8606	0.472	ppbv	97
3) Chlorodifluoromethane	1.479	51	16901	0.839	ppbv	97
4) Chloromethane	1.538	50	5706	0.776	ppbv	94
9) Propene	1.489	41	4649	0.534	ppbv	88
11) Trichlorofluoromethane	1.887	101	4904	0.273	ppbv	89
13) Ethanol	1.729	45	165456	207.960	ppbv	90
15) Acetone	1.842	43	100830	6.129	ppbv	99
17) tert-Butyl alcohol	2.052	59	2549m	0.131	ppbv	
19) Isopropyl Alcohol	1.897	45	10775	1.096	ppbv #	1
20) Methylene Chloride	2.072	84	5980	0.868	ppbv	99
26) Hexane	2.842	57	5276	0.287	ppbv #	54
34) 2-Butanone	2.573	43	12924	0.580	ppbv	99
35) Carbon Tetrachloride	3.781	117	2240	0.098	ppbv #	57
36) Benzene	3.677	78	4724m	0.149	ppbv	
44) 2,2,4-Trimethylpentane	4.667	57	7094m	0.132	ppbv	
52) Tetrachloroethene	8.237	164	691m	0.060	ppbv	
53) Toluene	6.959	91	13707	0.365	ppbv	94
59) m/p-Xylene	9.548	91	6836m	0.177	ppbv	

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

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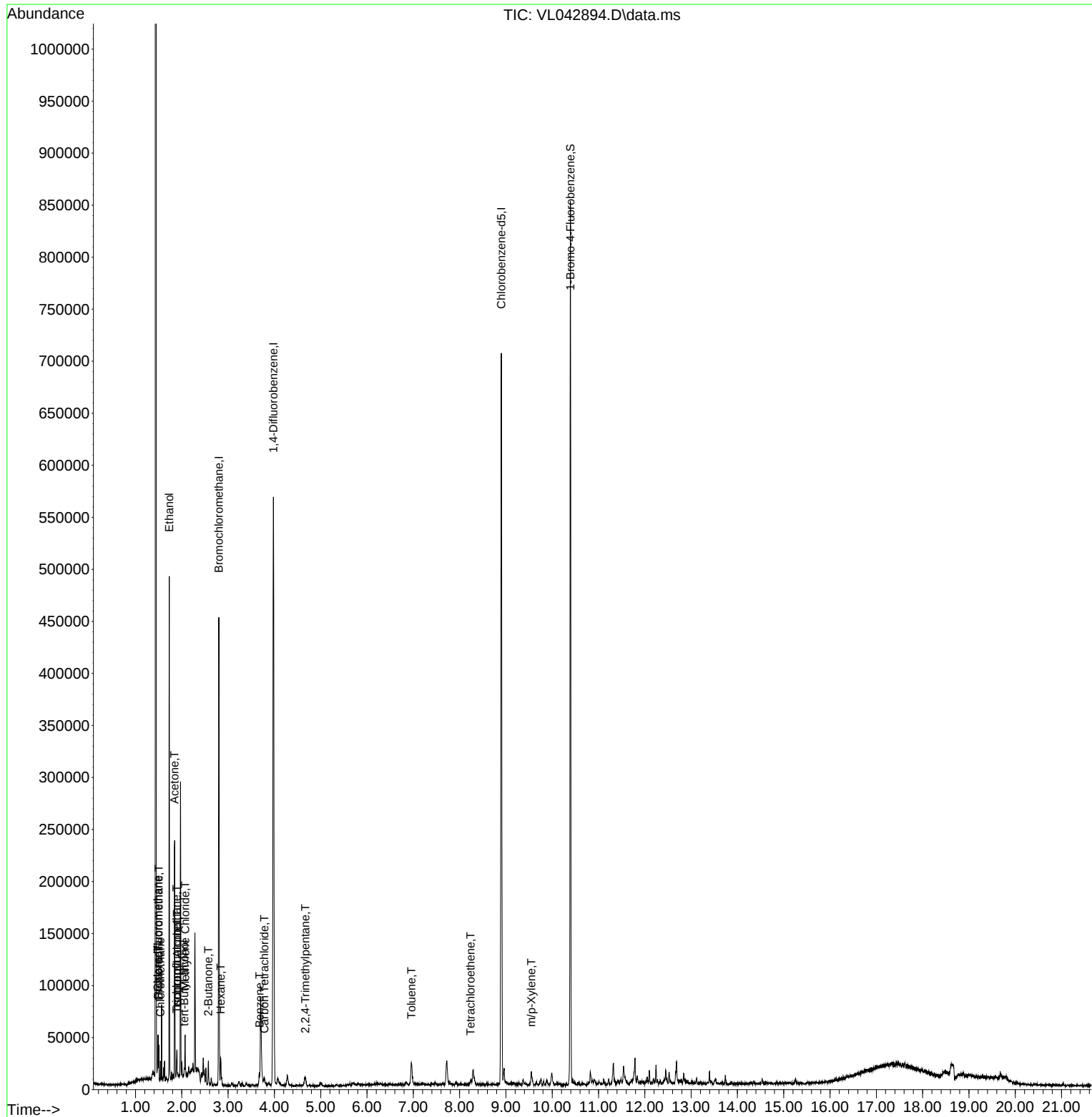
Quant Time: Sep 05 01:24:18 2025

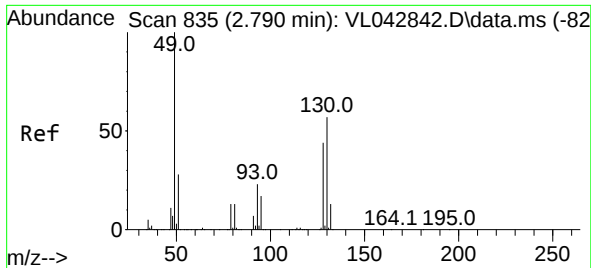
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration





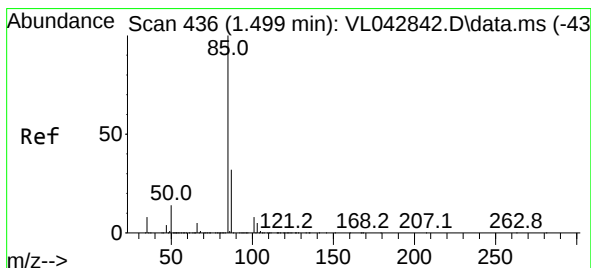
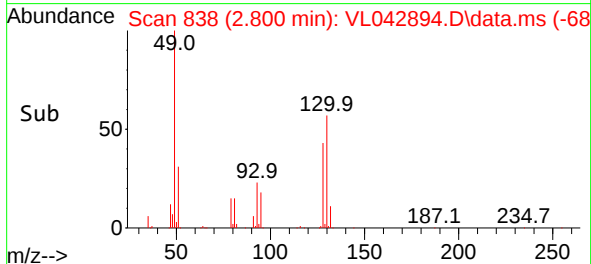
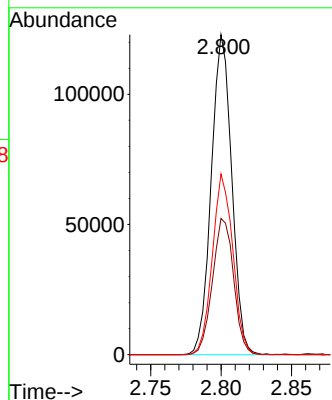
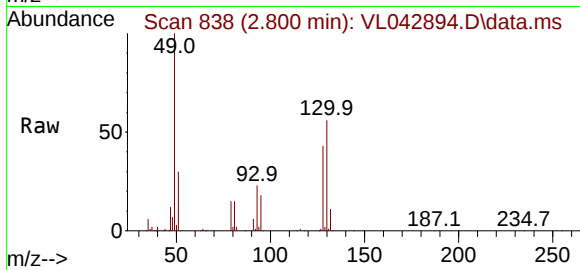
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 124375
Ion Ratio Lower Upper
49 100
128 44.0 23.7 71.1
130 56.6 30.6 91.6

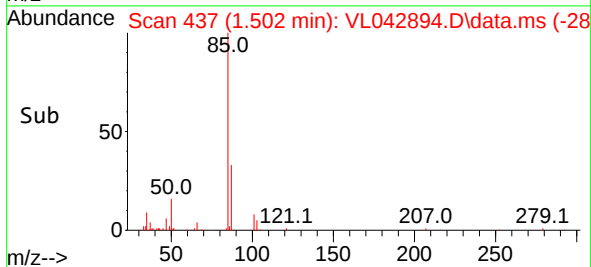
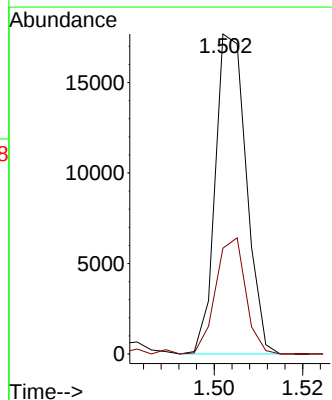
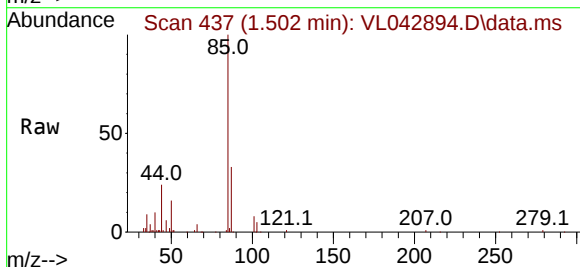
Manual Integrations
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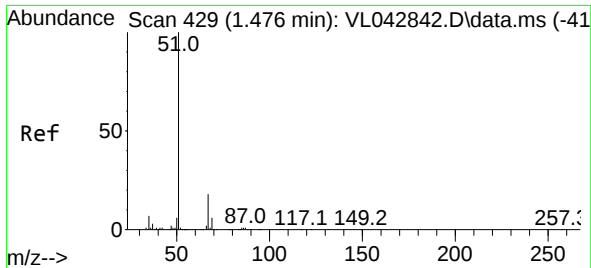
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#2
Dichlorodifluoromethane
Concen: 0.472 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

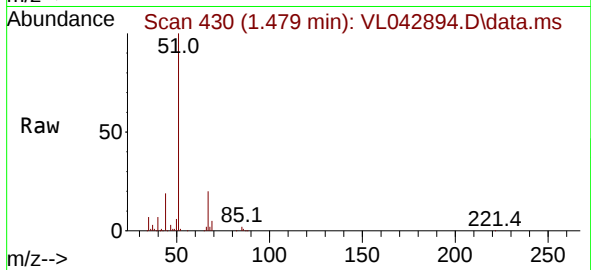
Tgt Ion: 85 Resp: 8606
Ion Ratio Lower Upper
85 100
87 33.0 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.839 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

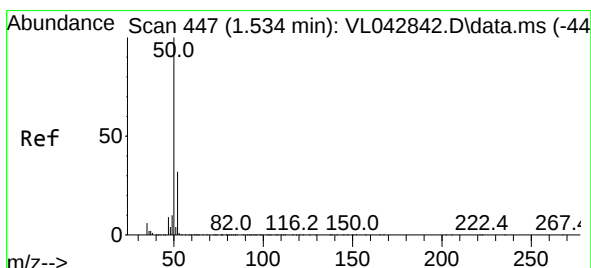
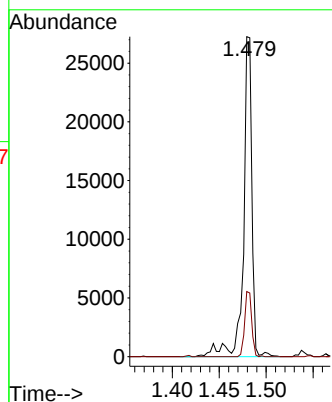
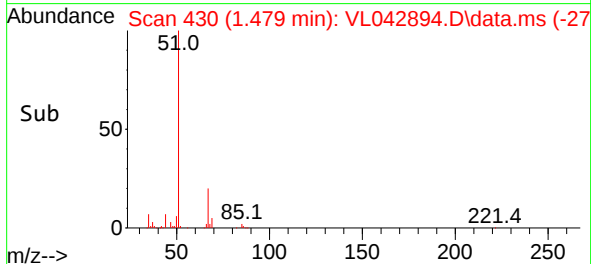
Instrument :
MSVOA_L
ClientSampleId :
IA2



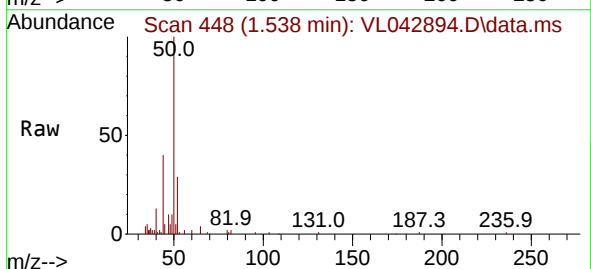
Tgt Ion: 51 Resp: 1690
Ion Ratio Lower Upper
51 100
67 17.1 14.9 22.3

Manual Integrations
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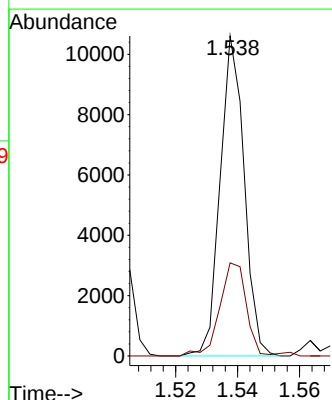
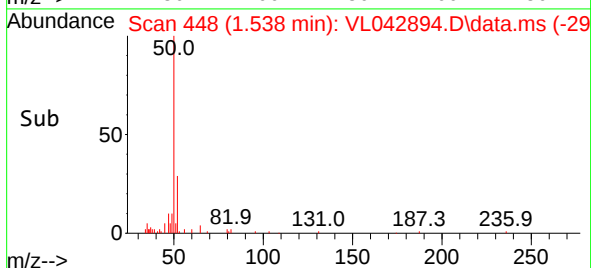
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

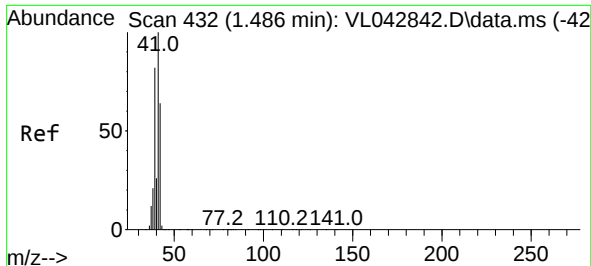


#4
Chloromethane
Concen: 0.776 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29



Tgt Ion: 50 Resp: 5706
Ion Ratio Lower Upper
50 100
52 29.1 25.9 38.9





#9

Propene

Concen: 0.534 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 41 Resp: 4649

Ion Ratio Lower Upper

41 100

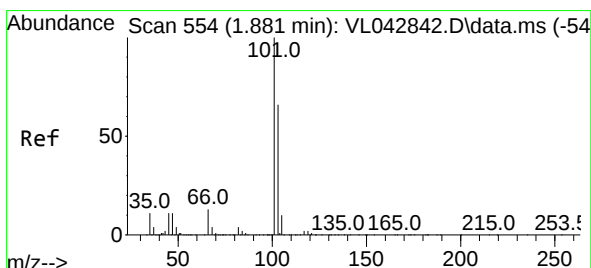
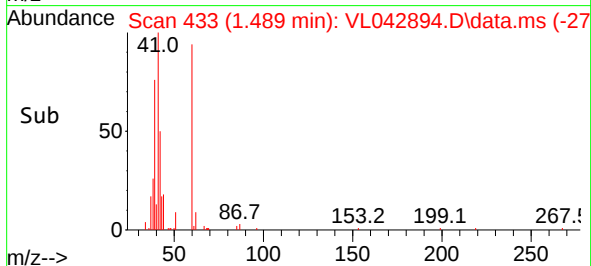
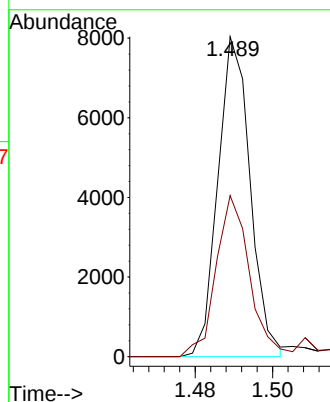
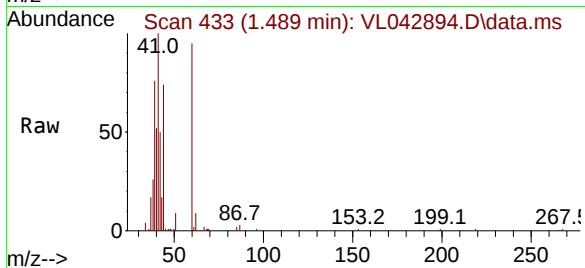
42 56.9 53.0 79.4

Manual Integrations

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Supervised By :Mahesh Dadoda 09/05/2025



#11

Trichlorofluoromethane

Concen: 0.273 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.006 min

Lab File: VL042894.D

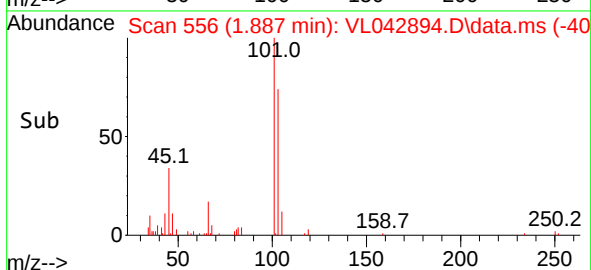
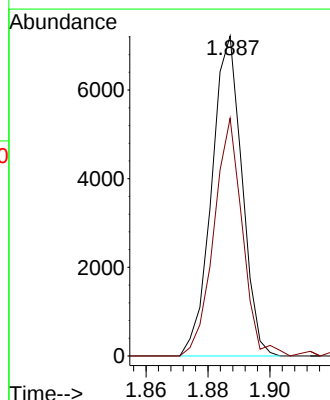
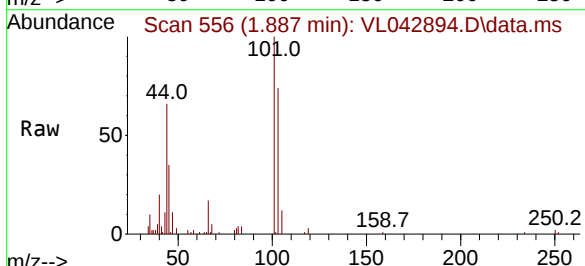
Acq: 04 Sep 2025 17:29

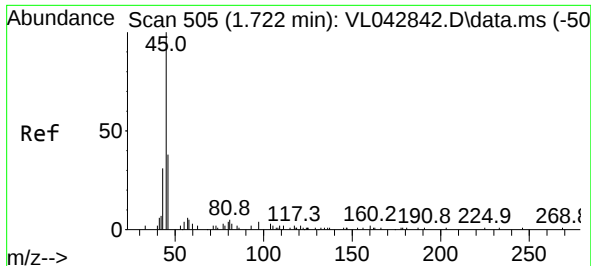
Tgt Ion:101 Resp: 4904

Ion Ratio Lower Upper

101 100

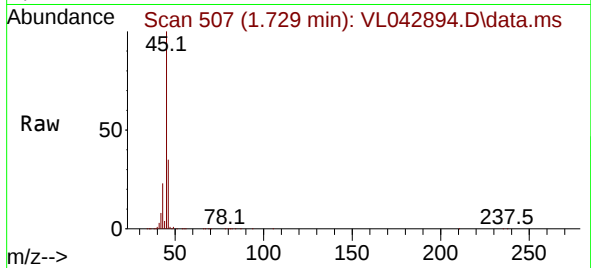
103 74.3 52.5 78.7





#13
Ethanol
Concen: 207.960 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

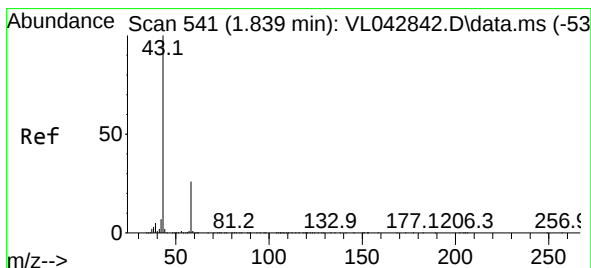
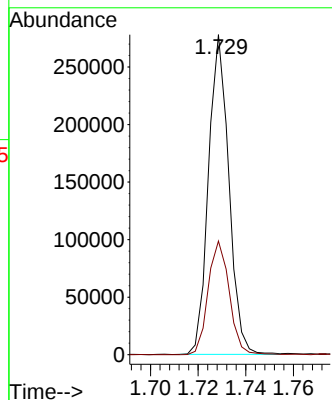
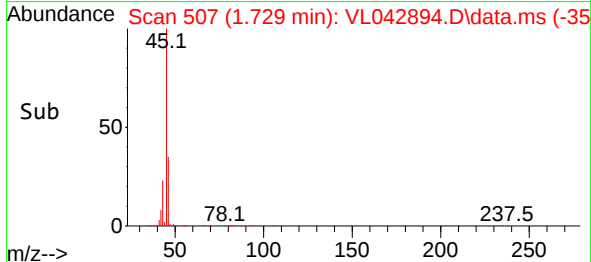
Instrument :
MSVOA_L
ClientSampleId :
IA2



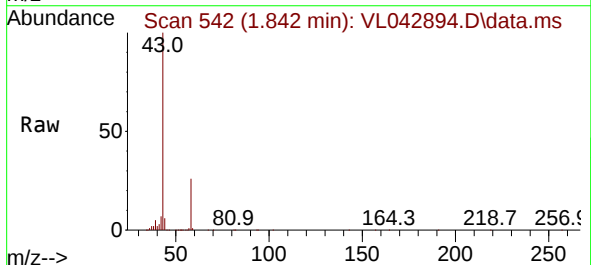
Tgt Ion: 45 Resp: 165450
Ion Ratio Lower Upper
45 100
46 37.3 17.5 69.9

Manual Integrations
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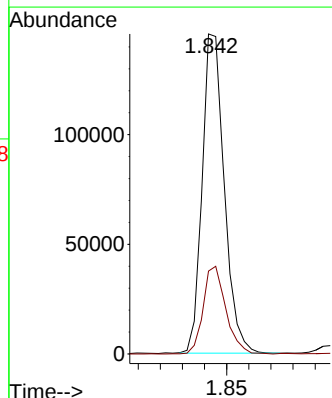
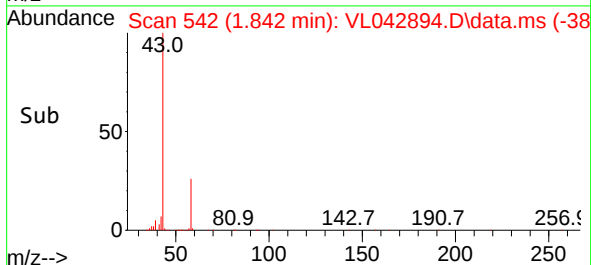
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

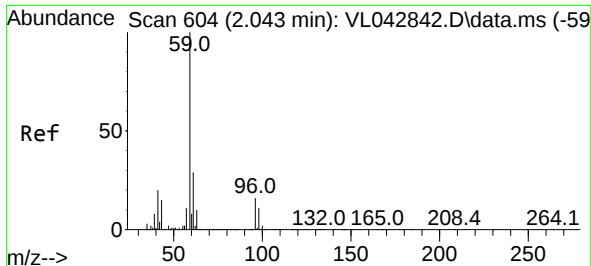


#15
Acetone
Concen: 6.129 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29



Tgt Ion: 43 Resp: 100830
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.131 ppbv m

RT: 2.052 min Scan# 604

Delta R.T. 0.010 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

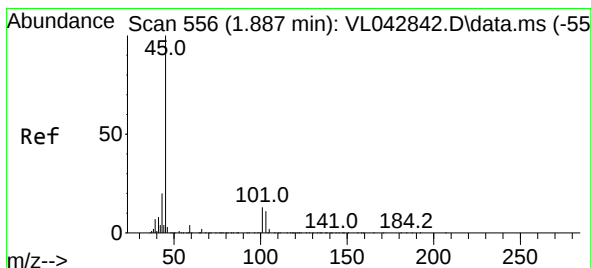
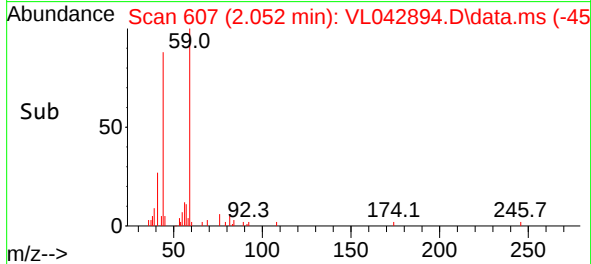
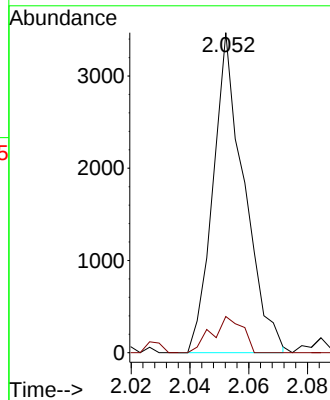
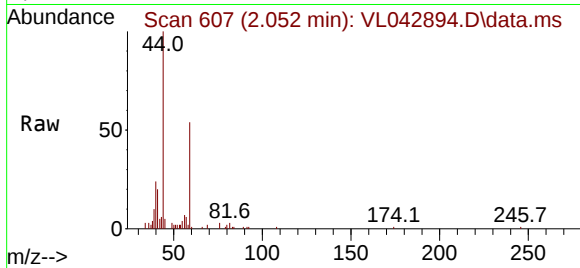
IA2

Tgt Ion: 59 Resp: 2549
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025



#19

Isopropyl Alcohol

Concen: 1.096 ppbv

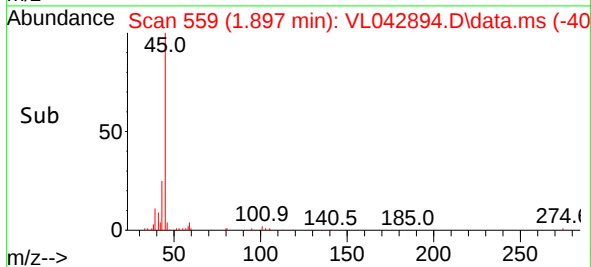
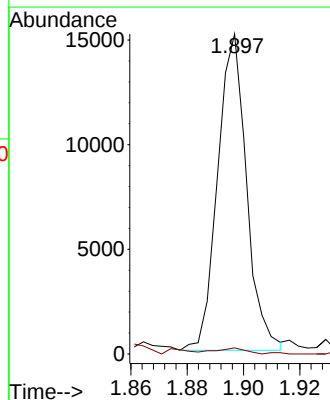
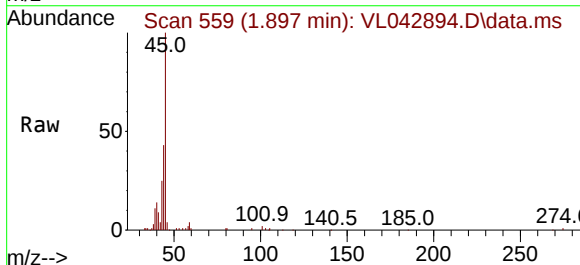
RT: 1.897 min Scan# 559

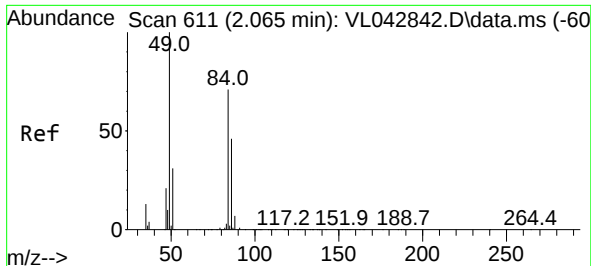
Delta R.T. 0.010 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

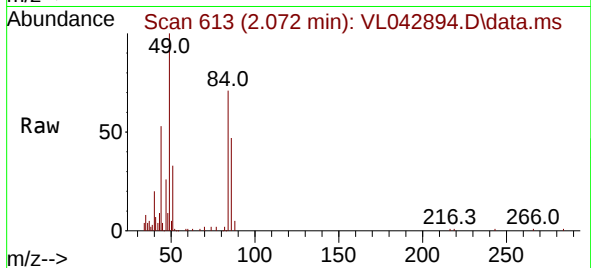
Tgt Ion: 45 Resp: 10775
 Ion Ratio Lower Upper
 45 100
 58 266.5 32.7 49.1





#20
Methylene Chloride
Concen: 0.868 ppbv
RT: 2.072 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

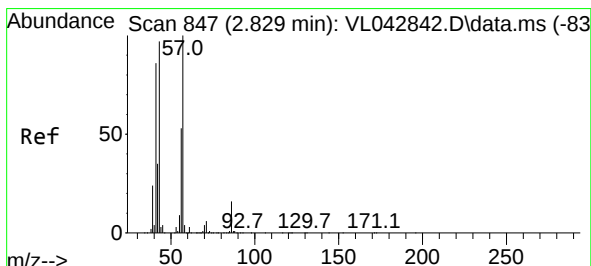
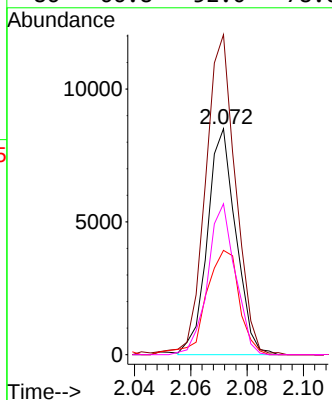
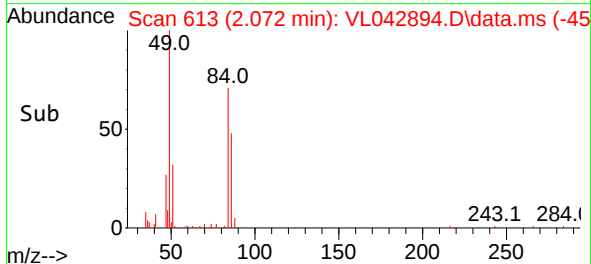
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 84 Resp: 5980
Ion Ratio Lower Upper
84 100
49 140.8 112.3 168.5
51 46.2 36.0 54.0
86 66.8 52.0 78.0

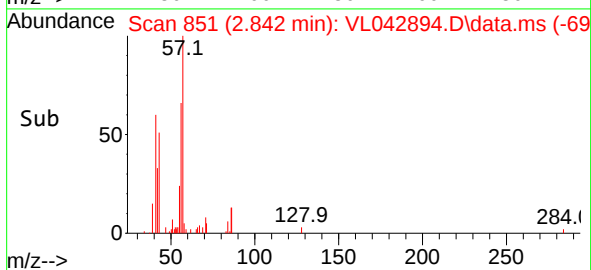
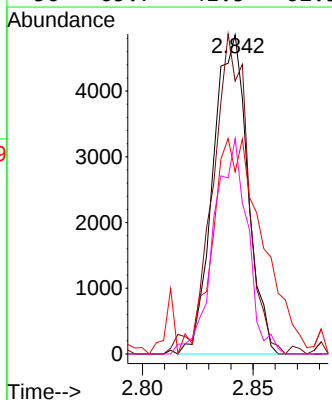
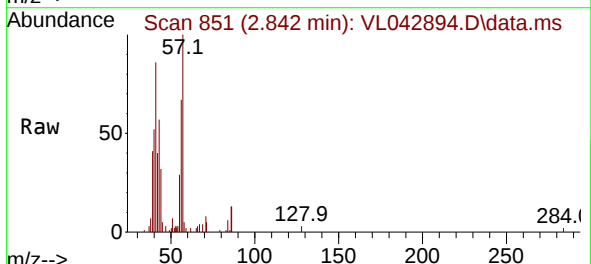
Manual Integrations
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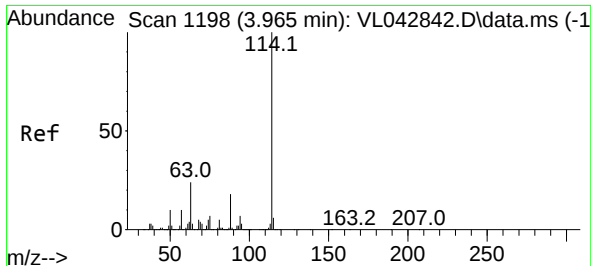
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#26
Hexane
Concen: 0.287 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.013 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Tgt Ion: 57 Resp: 5276
Ion Ratio Lower Upper
57 100
41 102.5 68.6 103.0
43 110.4 168.5 252.7#
56 65.7 41.5 62.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:114 Resp: 330230

Ion Ratio Lower Upper

114 100

63 26.3 19.7 29.5

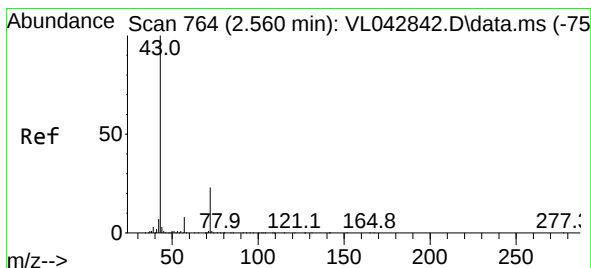
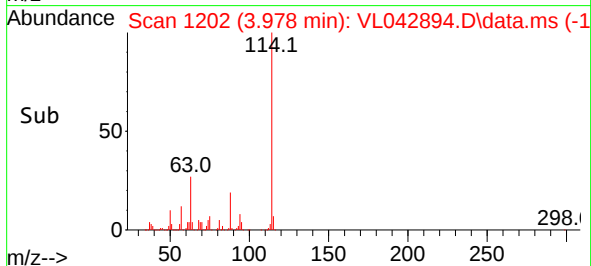
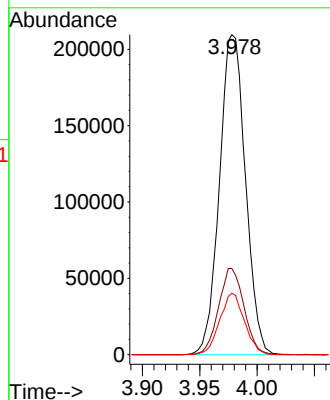
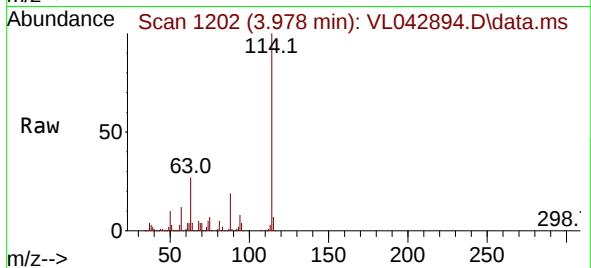
88 18.3 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#34

2-Butanone

Concen: 0.580 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.013 min

Lab File: VL042894.D

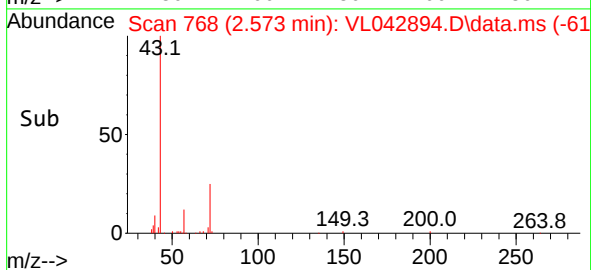
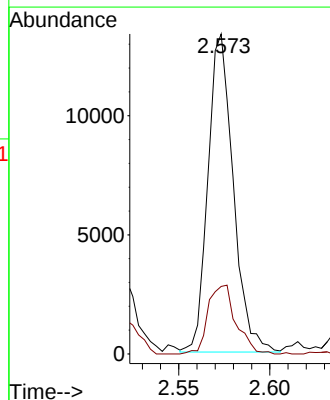
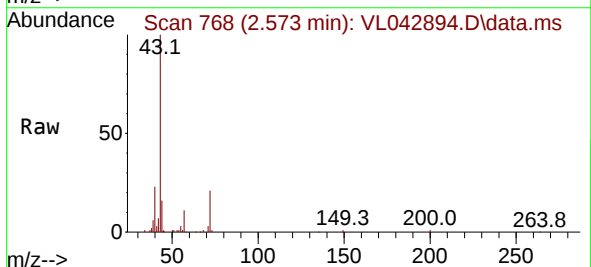
Acq: 04 Sep 2025 17:29

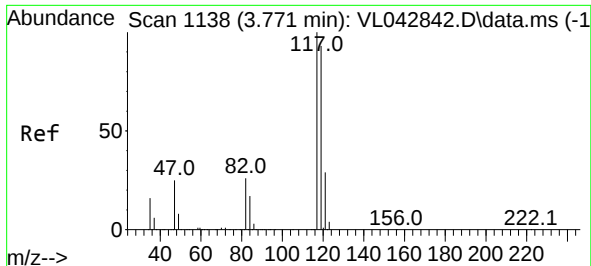
Tgt Ion: 43 Resp: 12924

Ion Ratio Lower Upper

43 100

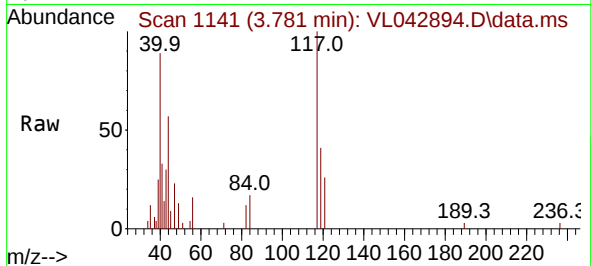
72 23.8 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.098 ppbv
RT: 3.781 min Scan# 1138
Delta R.T. 0.010 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

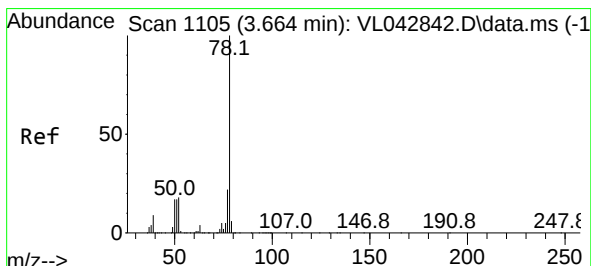
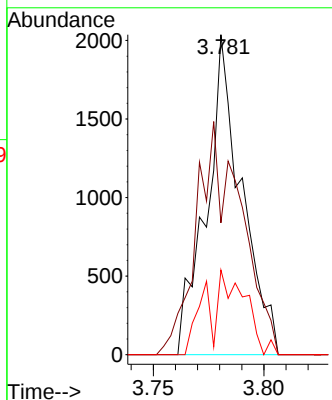
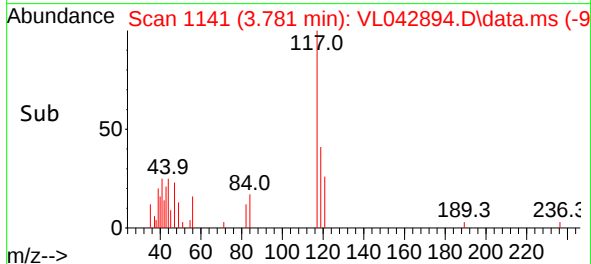
Instrument :
MSVOA_L
ClientSampleId :
IA2



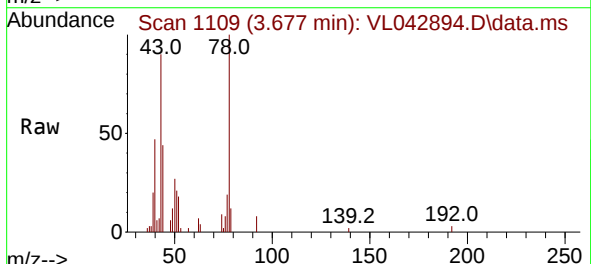
Tgt Ion: 117 Resp: 2240
Ion Ratio Lower Upper
117 100
119 41.2 74.7 112.1
121 26.5 23.2 34.8

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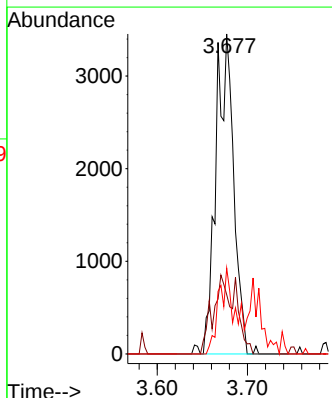
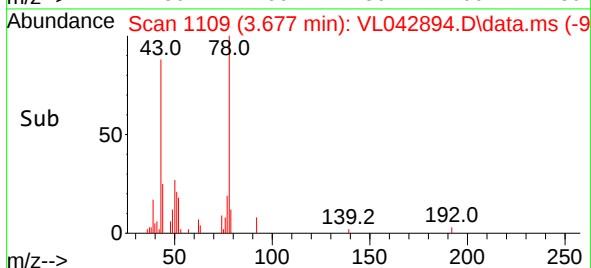
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

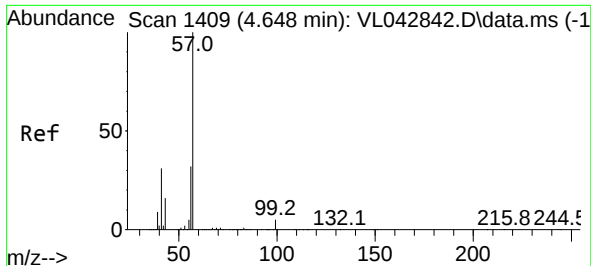


#36
Benzene
Concen: 0.149 ppbv m
RT: 3.677 min Scan# 1109
Delta R.T. 0.013 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29



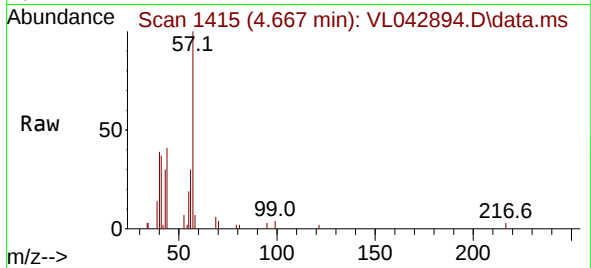
Tgt Ion: 78 Resp: 4724
Ion Ratio Lower Upper
78 100
77 18.5 17.7 26.5
50 26.8 13.9 20.9





#44
2,2,4-Trimethylpentane
Concen: 0.132 ppbv m
RT: 4.667 min Scan# 1415
Delta R.T. 0.019 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

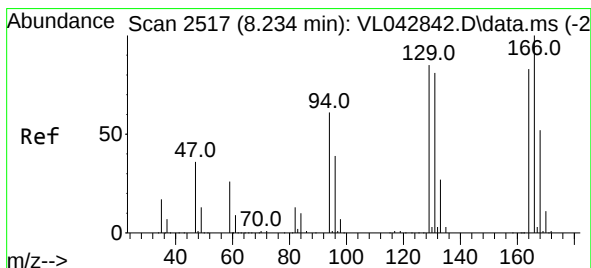
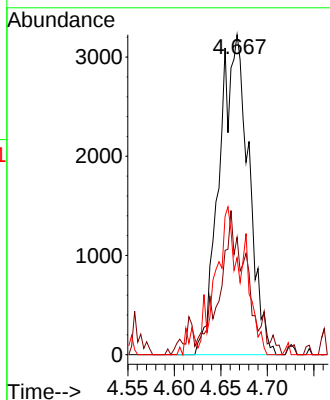
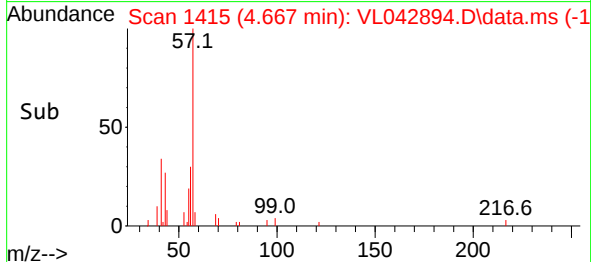
Instrument : MSVOA_L
ClientSampleId : IA2



Tgt Ion: 57 Resp: 7094
Ion Ratio Lower Upper
57 100
41 46.2 24.8 37.2#
56 0.0 25.5 38.3#

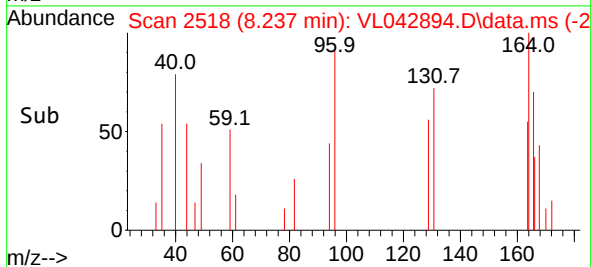
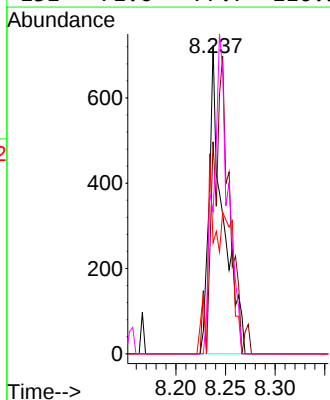
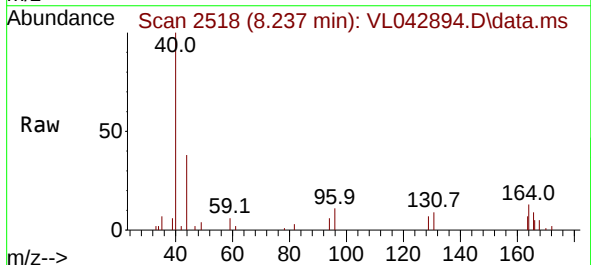
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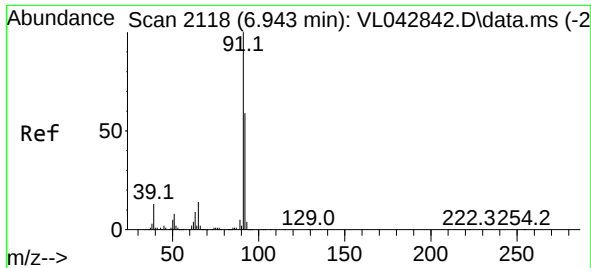
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#52
Tetrachloroethene
Concen: 0.060 ppbv m
RT: 8.237 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Tgt Ion:164 Resp: 691
Ion Ratio Lower Upper
164 100
166 70.1 96.5 144.7#
129 55.9 81.8 122.6#
131 71.6 77.7 116.5#





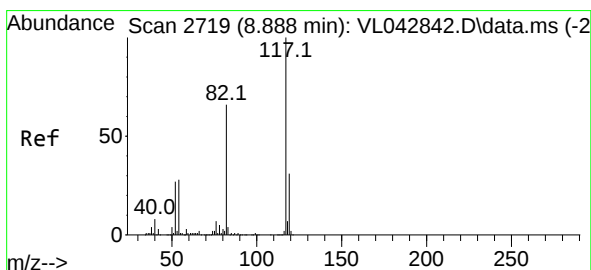
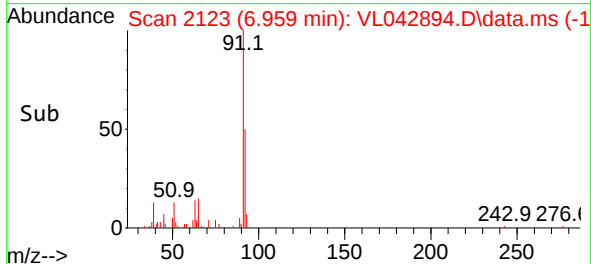
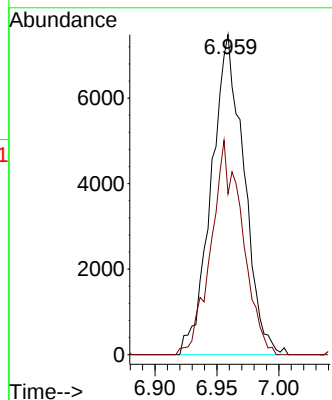
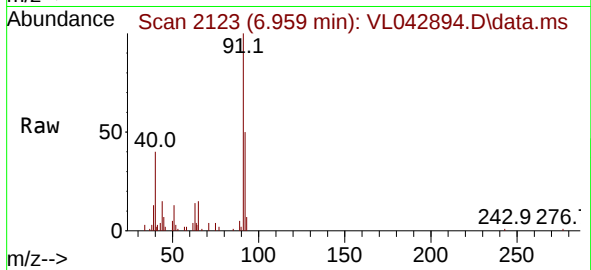
#53
Toluene
Concen: 0.365 ppbv
RT: 6.959 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 1370
Ion Ratio Lower Upper
91 100
92 64.5 47.8 71.6

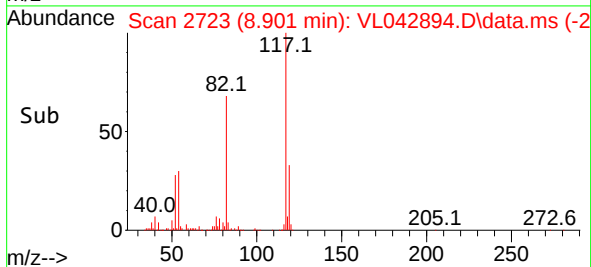
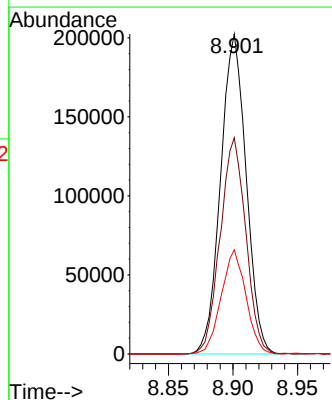
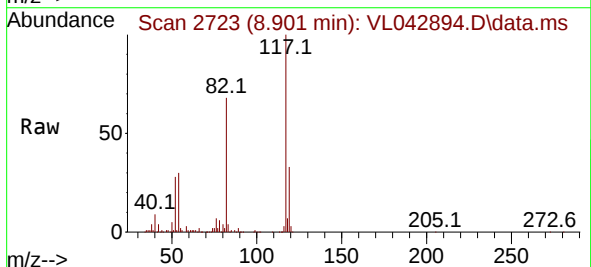
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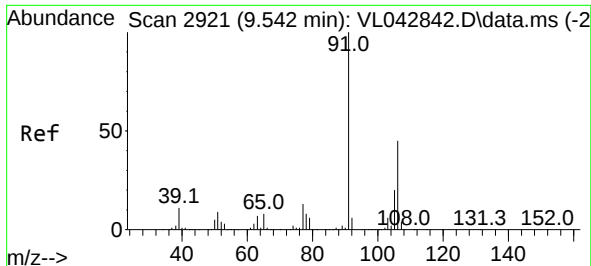
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.013 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Tgt Ion:117 Resp: 278452
Ion Ratio Lower Upper
117 100
82 67.7 54.6 81.8
119 31.8 25.9 38.9





#59

m/p-Xylene

Concen: 0.177 ppbv m

RT: 9.548 min Scan# 2921

Delta R.T. 0.006 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 91 Resp: 6830

Ion Ratio Lower Upper

91 100

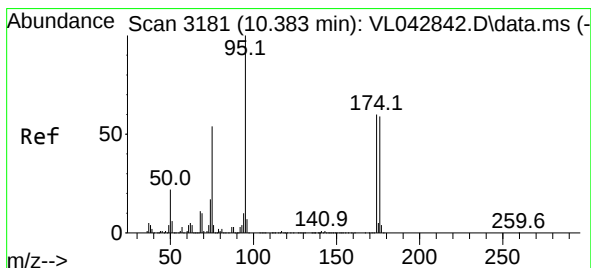
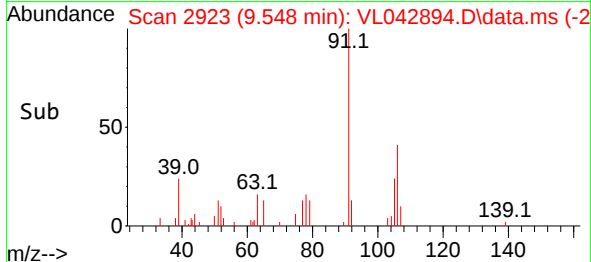
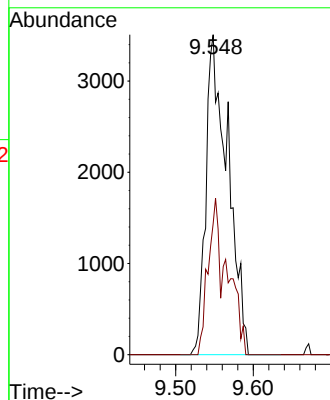
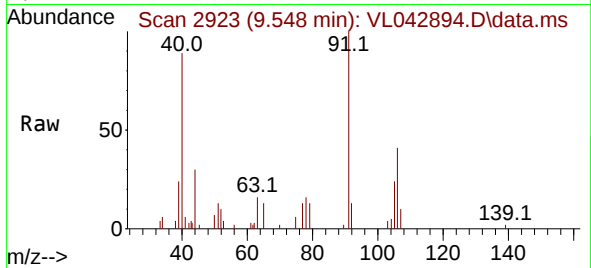
106 42.6 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.320 ppbv

RT: 10.393 min Scan# 3184

Delta R.T. 0.010 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Tgt Ion: 95 Resp: 215513

Ion Ratio Lower Upper

95 100

174 56.0 48.4 72.6

175 4.2 3.8 5.8

