

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043162.D
 Acq On : 06 Nov 2025 12:10
 Operator : SY/MD
 Sample : Q3556-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 131-IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:20:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	115682	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	345961	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	296213	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	230759	10.023	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	8022	0.488	ppbv	99
3) Chlorodifluoromethane	1.479	51	4540m	0.255	ppbv	
4) Chloromethane	1.535	50	2549	0.391	ppbv	96
9) Propene	1.489	41	3218	0.408	ppbv #	82
11) Trichlorofluoromethane	1.881	101	4202	0.261	ppbv	98
13) Ethanol	1.725	45	22891	7.842	ppbv	98
15) Acetone	1.839	43	43810	2.810	ppbv	97
19) Isopropyl Alcohol	1.891	45	4423	0.455	ppbv #	1
20) Methylene Chloride	2.065	84	3546	0.575	ppbv #	78
26) Hexane	2.836	57	18626	1.045	ppbv #	41
34) 2-Butanone	2.564	43	5233	0.225	ppbv	97
35) Carbon Tetrachloride	3.768	117	2349m	0.094	ppbv	
36) Benzene	3.661	78	4029	0.124	ppbv #	92
52) Tetrachloroethene	8.234	164	426m	0.036	ppbv	
53) Toluene	6.936	91	9312m	0.241	ppbv	
59) m/p-Xylene	9.529	91	4156m	0.102	ppbv	

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

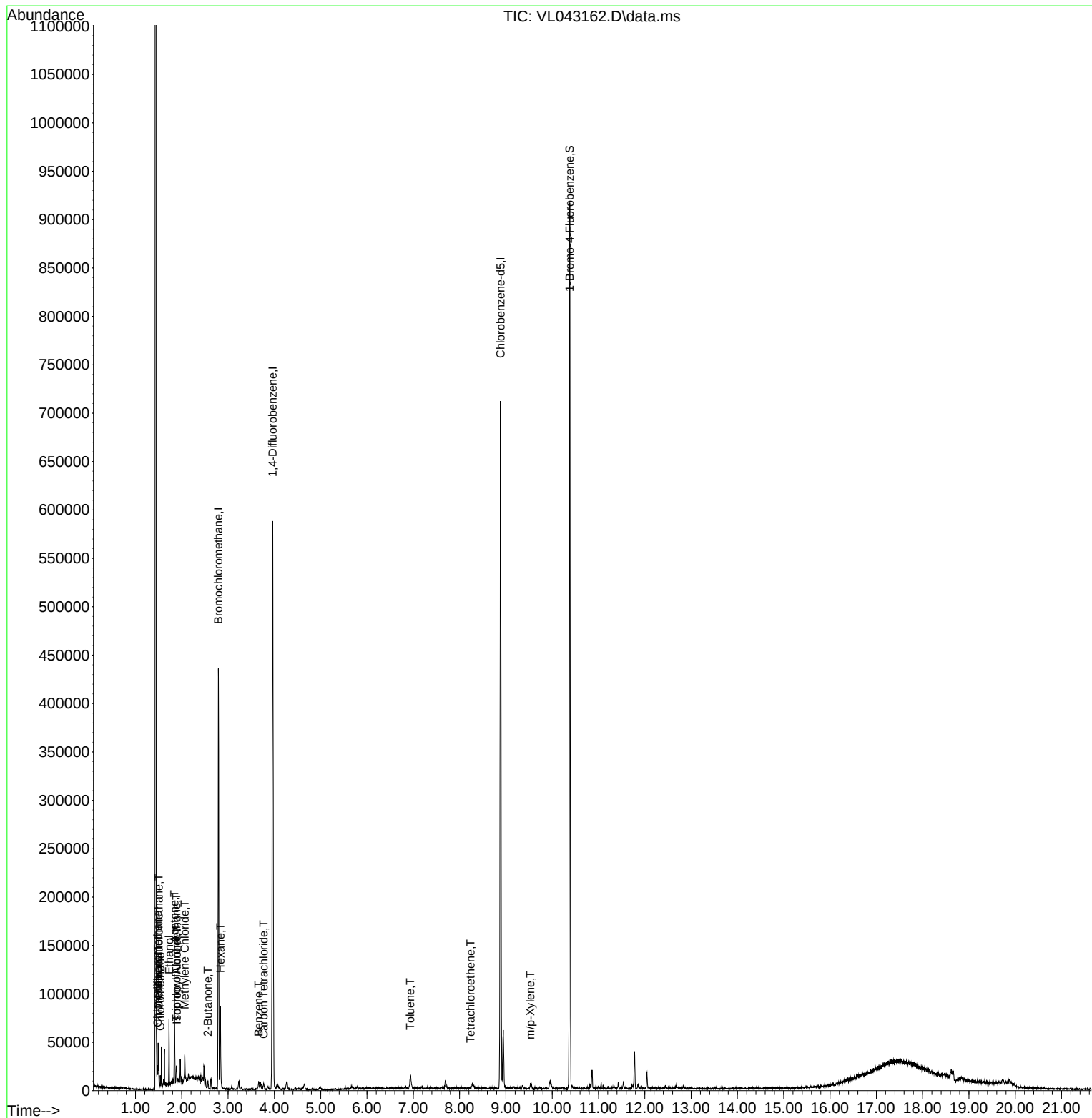
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043162.D
Acq On : 06 Nov 2025 12:10
Operator : SY/MD
Sample : Q3556-02
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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
131-IA2

Manual Integrations
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Supervised By :Mahesh Dadoda 11/10/2025

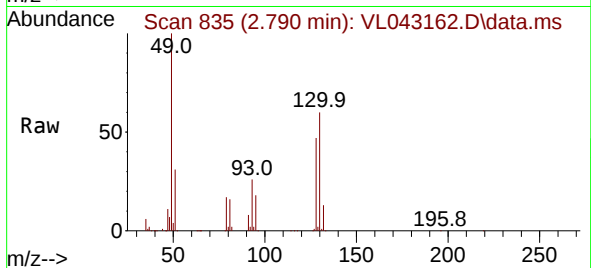
Quant Time: Nov 07 00:20:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

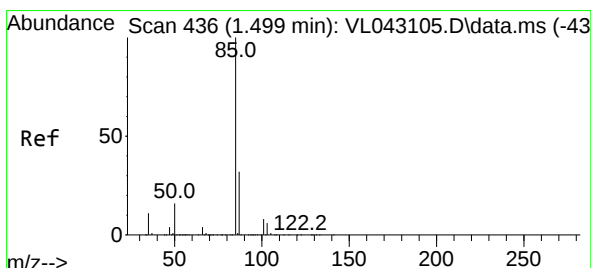
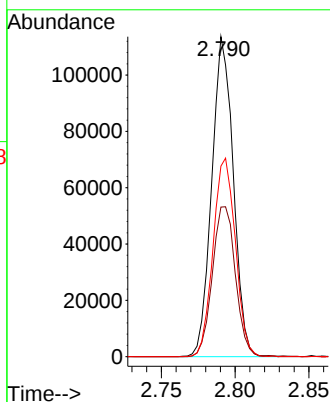
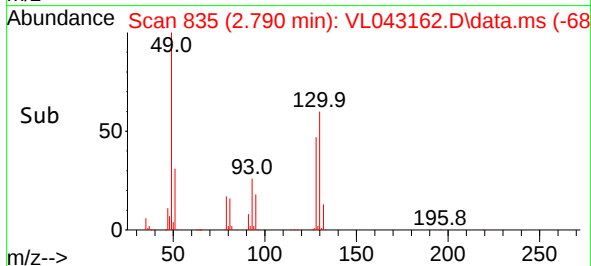
Instrument :
MSVOA_L
ClientSampleId :
131-IA2



Tgt Ion: 49 Resp: 11568
Ion Ratio Lower Upper
49 100
128 50.1 24.4 73.4
130 64.4 31.0 93.0

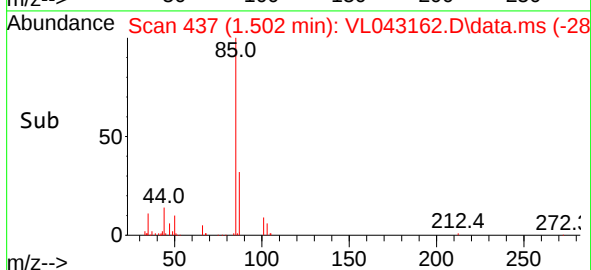
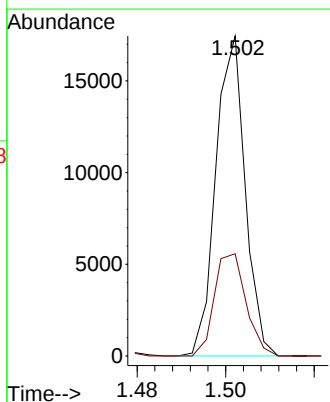
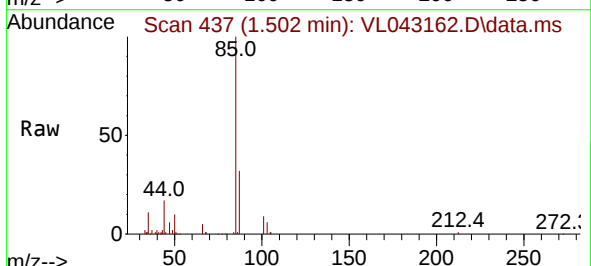
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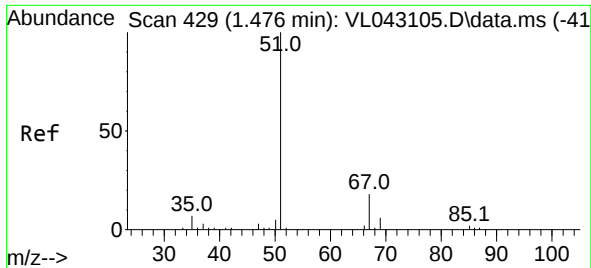
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.488 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Tgt Ion: 85 Resp: 8022
Ion Ratio Lower Upper
85 100
87 31.9 25.3 37.9





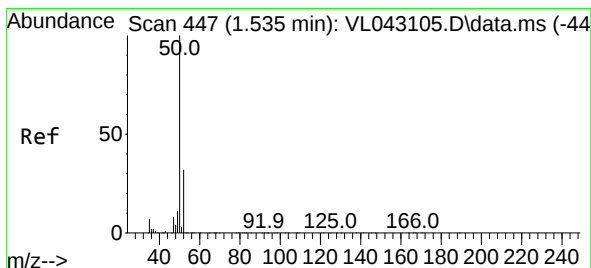
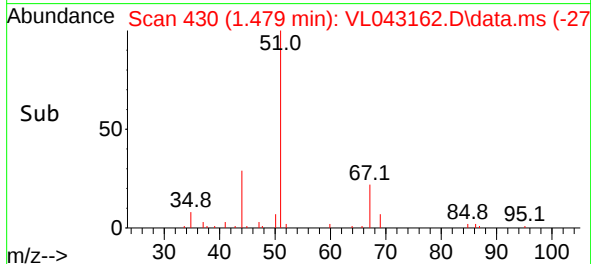
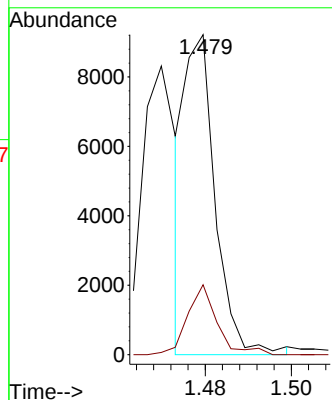
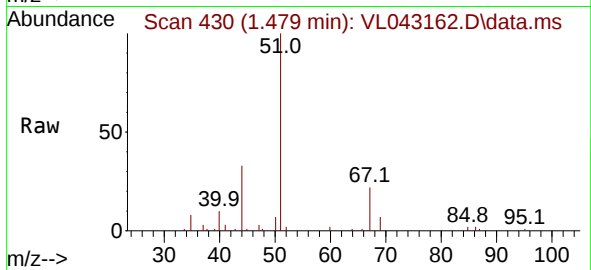
#3
Chlorodifluoromethane
Concen: 0.255 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Instrument :
MSVOA_L
ClientSampleId :
131-IA2

Tgt Ion: 51 Resp: 4540
Ion Ratio Lower Upper
51 100
67 21.2 15.1 22.7

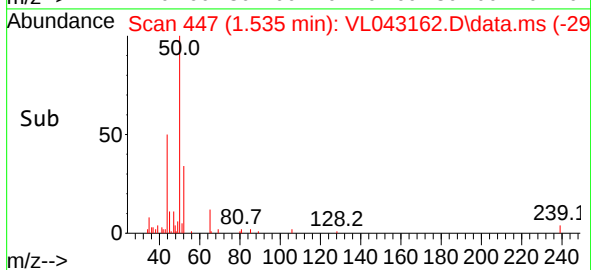
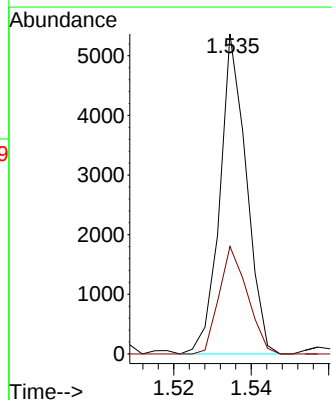
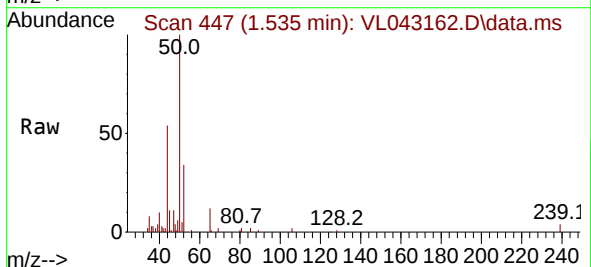
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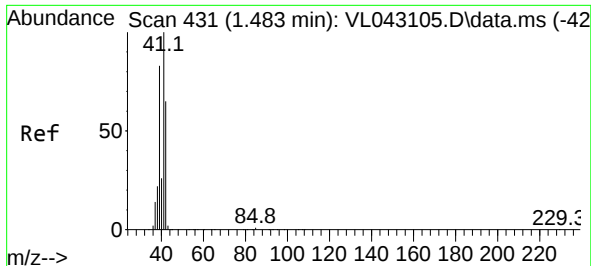
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 0.391 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Tgt Ion: 50 Resp: 2549
Ion Ratio Lower Upper
50 100
52 33.6 25.2 37.8





#9

Propene

Concen: 0.408 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Instrument :

MSVOA_L

ClientSampleId :

131-IA2

Tgt Ion: 41 Resp: 3218

Ion Ratio Lower Upper

41 100

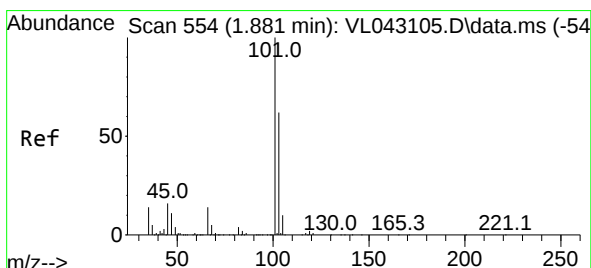
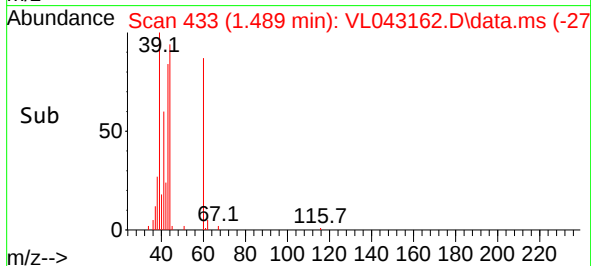
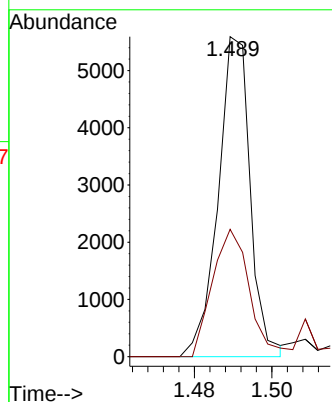
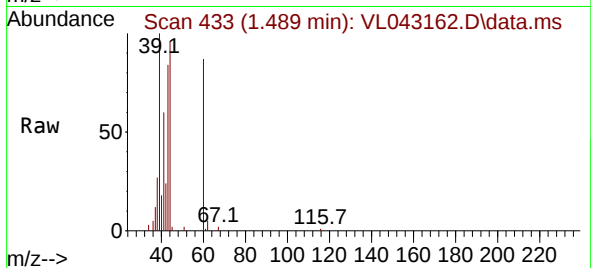
42 54.0 55.1 82.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#11

Trichlorofluoromethane

Concen: 0.261 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043162.D

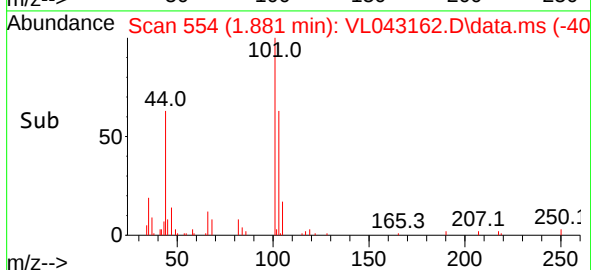
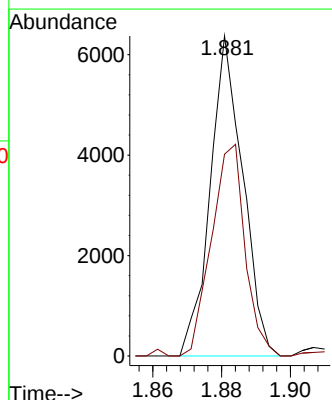
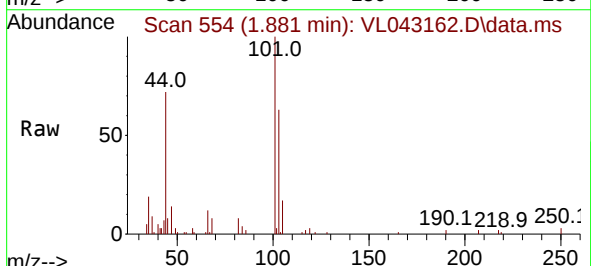
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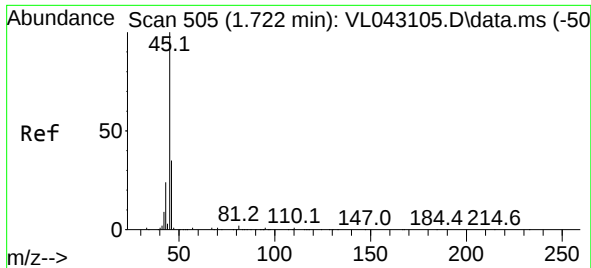
Tgt Ion:101 Resp: 4202

Ion Ratio Lower Upper

101 100

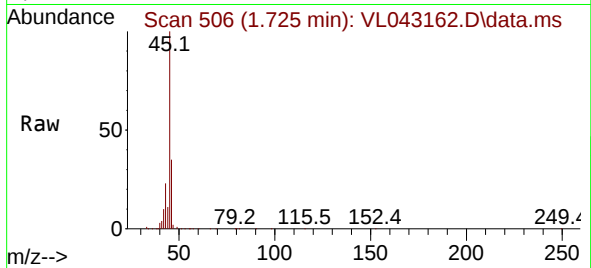
103 63.0 49.3 73.9





#13
Ethanol
Concen: 7.842 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

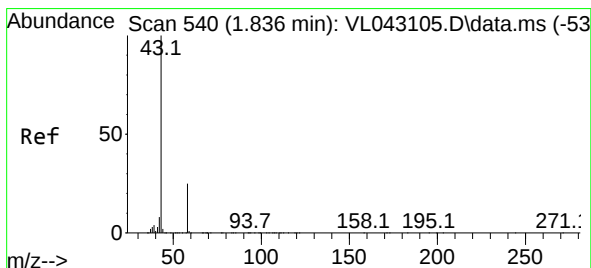
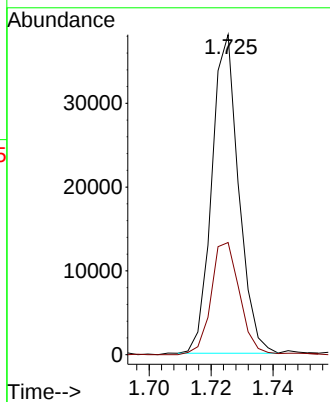
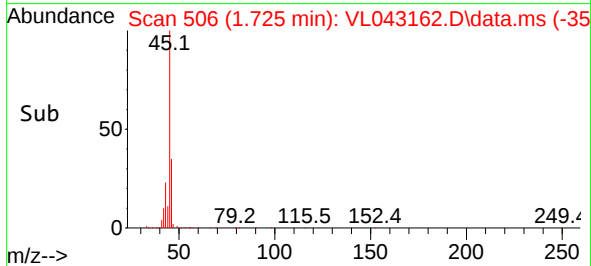
Instrument :
MSVOA_L
ClientSampleId :
131-IA2



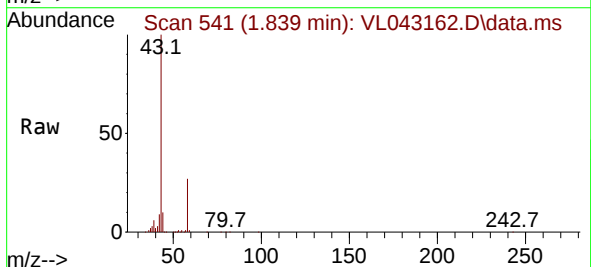
Tgt Ion: 45 Resp: 2289
Ion Ratio Lower Upper
45 100
46 38.0 14.7 58.9

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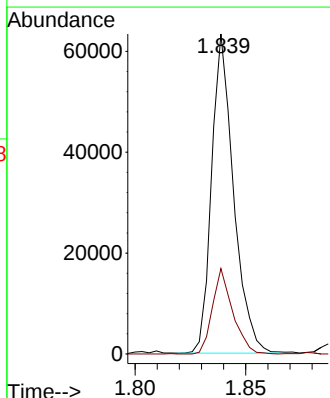
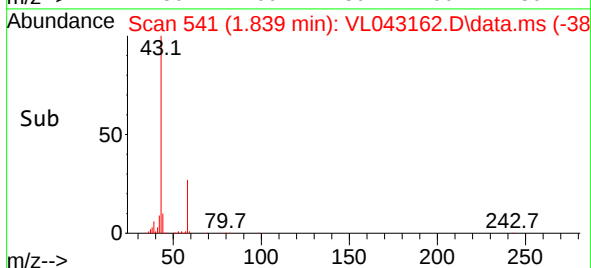
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

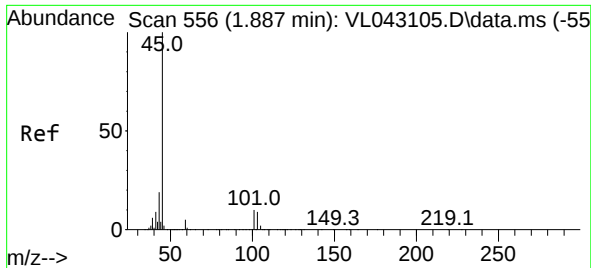


#15
Acetone
Concen: 2.810 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10



Tgt Ion: 43 Resp: 43810
Ion Ratio Lower Upper
43 100
58 24.6 20.8 31.2





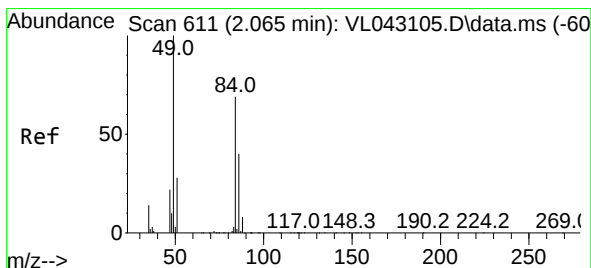
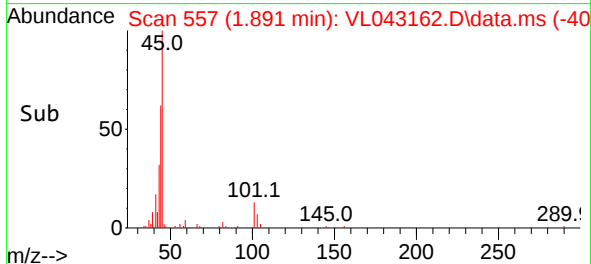
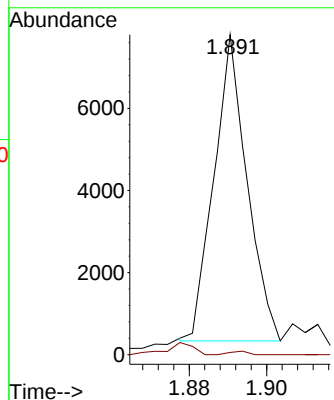
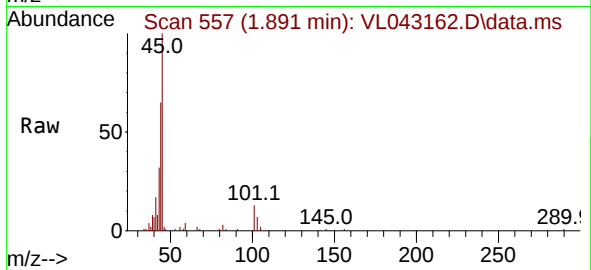
#19
Isopropyl Alcohol
Concen: 0.455 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Instrument :
MSVOA_L
ClientSampleId :
131-IA2

Tgt Ion: 45 Resp: 442
Ion Ratio Lower Upper
45 100
58 246.9 31.3 46.9

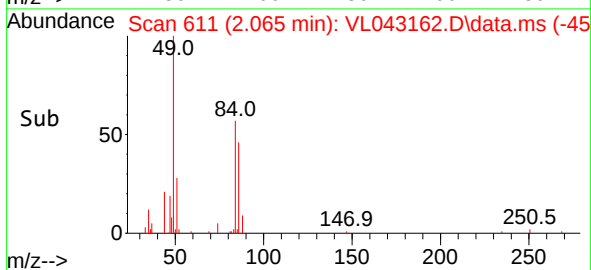
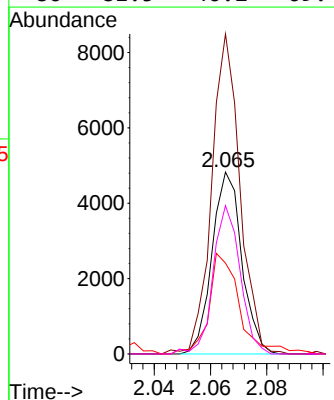
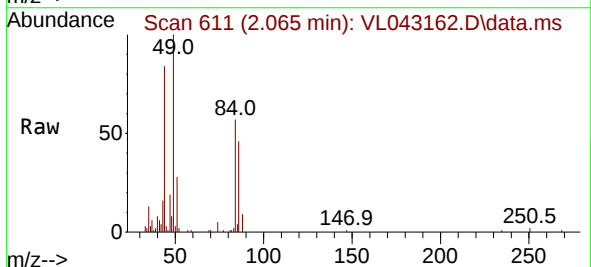
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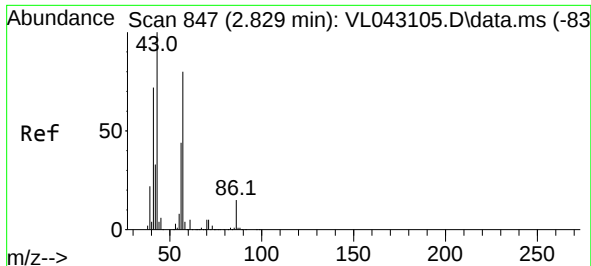
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#20
Methylene Chloride
Concen: 0.575 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

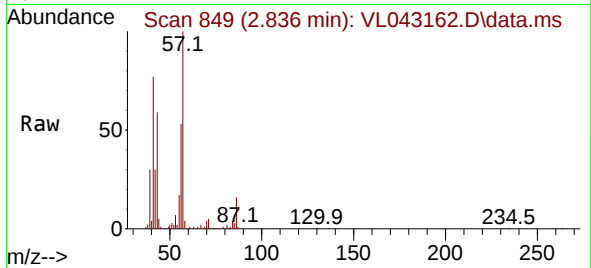
Tgt Ion: 84 Resp: 3546
Ion Ratio Lower Upper
84 100
49 174.6 116.6 175.0
51 47.4 34.8 52.2
86 81.5 46.2 69.4





#26
Hexane
Concen: 1.045 ppbv
RT: 2.836 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

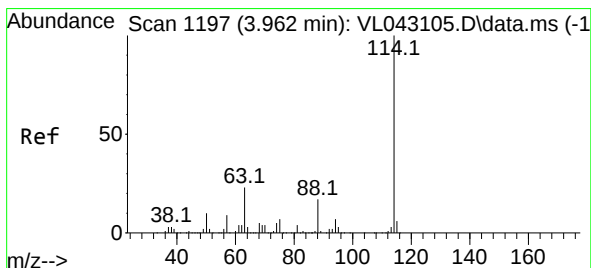
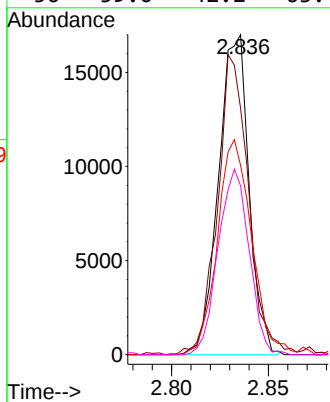
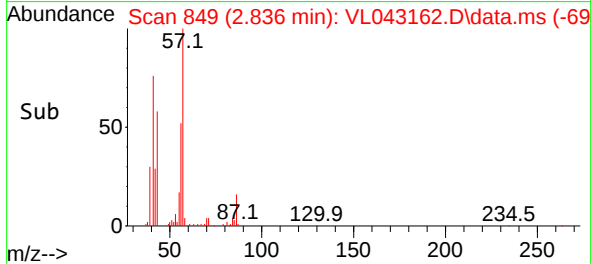
Instrument :
MSVOA_L
ClientSampleId :
131-IA2



Tgt Ion: 57 Resp: 18620
Ion Ratio Lower Upper
57 100
41 96.5 71.4 107.0
43 76.1 178.5 267.7
56 59.0 42.2 63.4

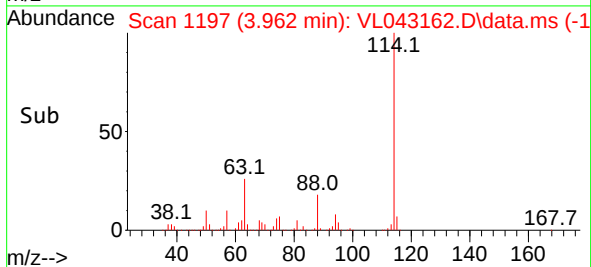
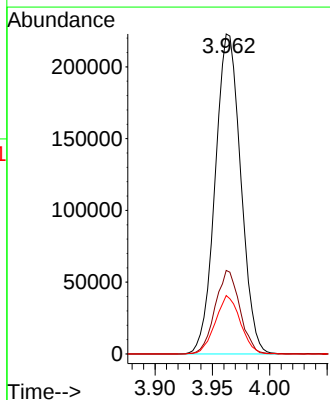
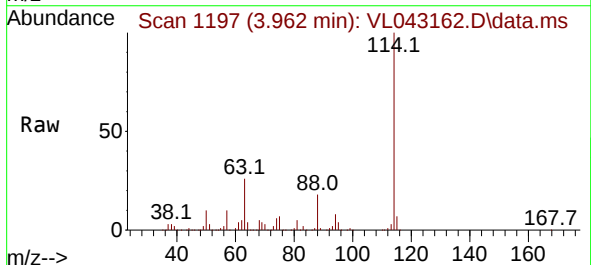
Manual Integrations
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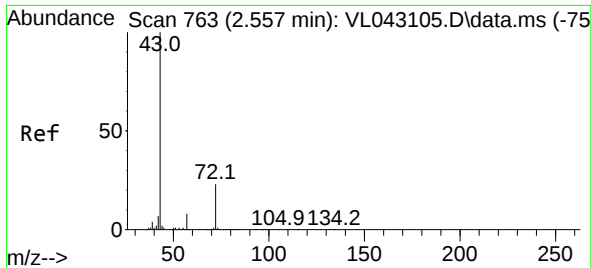
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.000 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

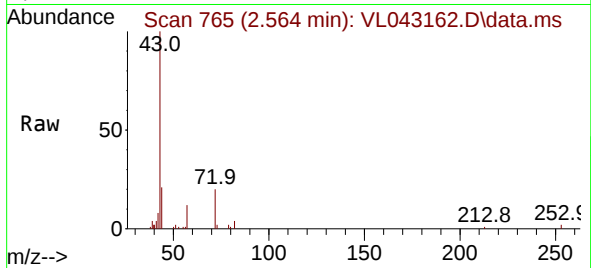
Tgt Ion:114 Resp: 345961
Ion Ratio Lower Upper
114 100
63 25.2 19.3 28.9
88 17.8 13.9 20.9





#34
2-Butanone
Concen: 0.225 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

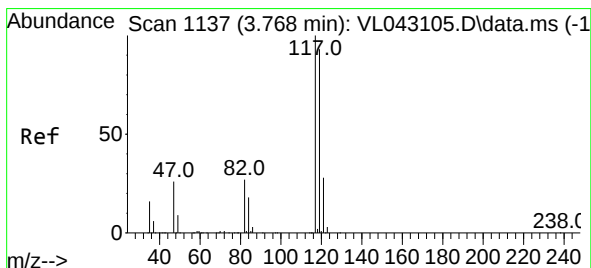
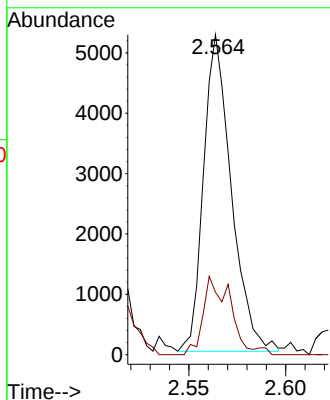
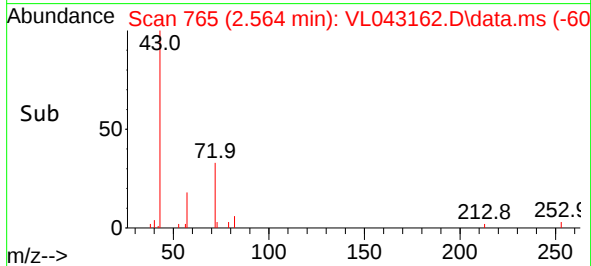
Instrument :
MSVOA_L
ClientSampleId :
131-IA2



Tgt Ion: 43 Resp: 523
Ion Ratio Lower Upper
43 100
72 24.5 18.4 27.6

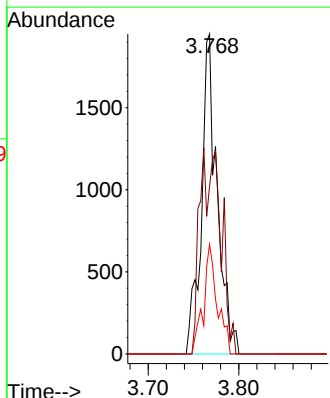
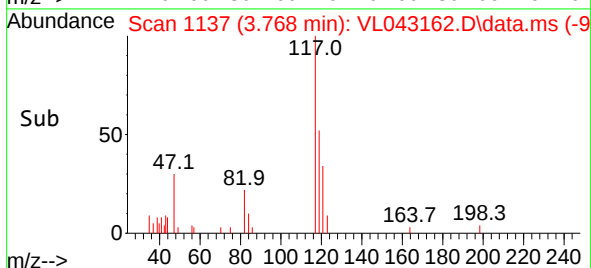
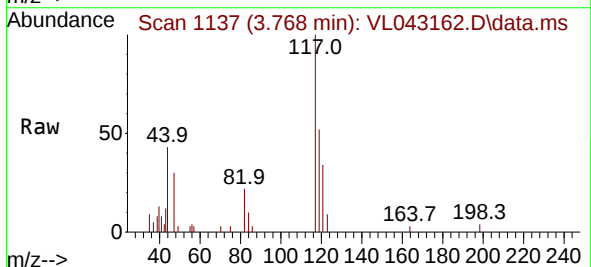
Manual Integrations
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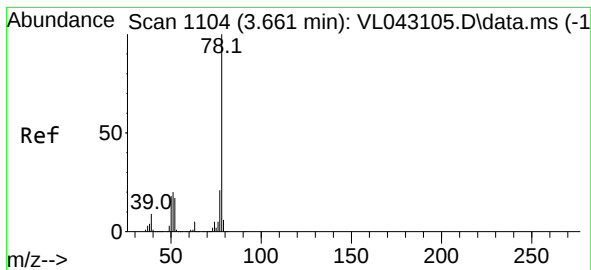
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.094 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Tgt Ion:117 Resp: 2349
Ion Ratio Lower Upper
117 100
119 52.5 74.1 111.1#
121 34.3 22.2 33.2#





#36

Benzene

Concen: 0.124 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Instrument :

MSVOA_L

ClientSampleId :

131-IA2

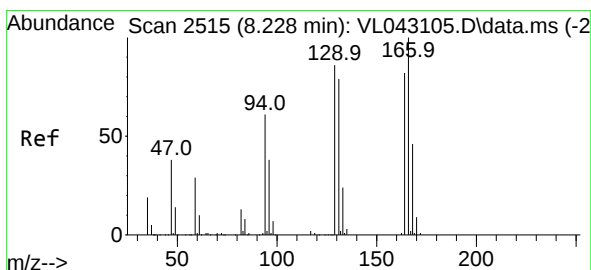
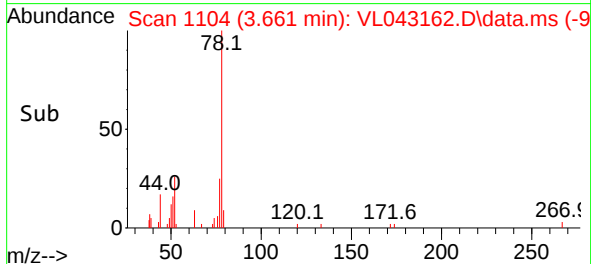
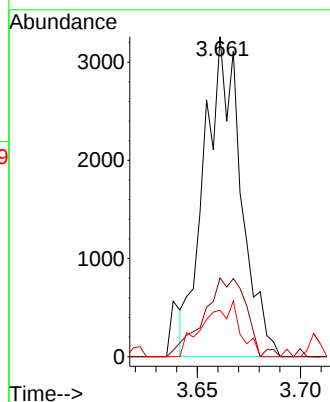
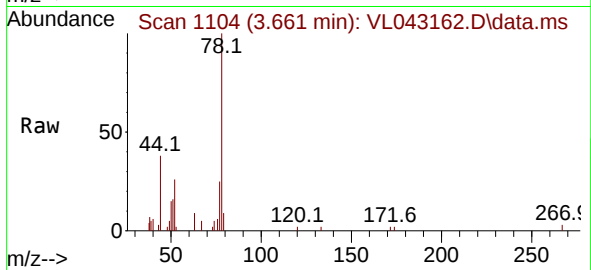
Tgt Ion: 78	Resp: 4029
Ion Ratio	Lower Upper
78 100	
77 24.6	17.0 25.6
50 14.5	14.6 22.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025

Supervised By :Mahesh Dadoda 11/10/2025



#52

Tetrachloroethene

Concen: 0.036 ppbv m

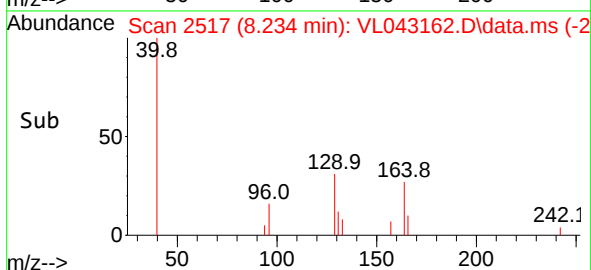
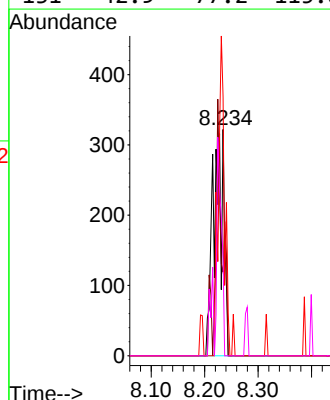
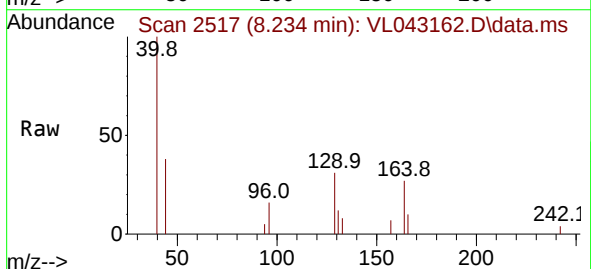
RT: 8.234 min Scan# 2517

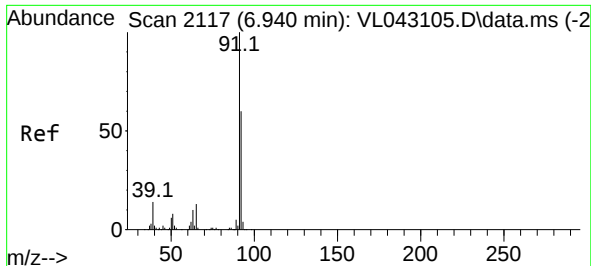
Delta R.T. 0.006 min

Lab File: VL043162.D

Acq: 06 Nov 2025 12:10

Tgt	Ion:164	Resp:	426
Ion	Ratio	Lower	Upper
164	100		
166	37.0	97.6	146.4#
129	114.3	84.5	126.7
131	42.9	77.2	115.8#





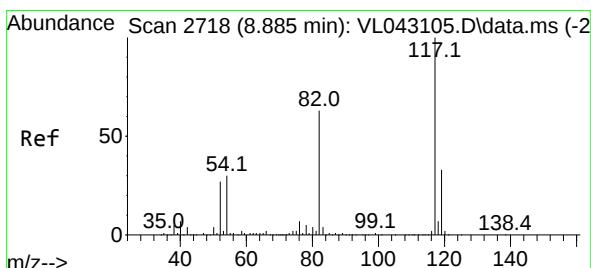
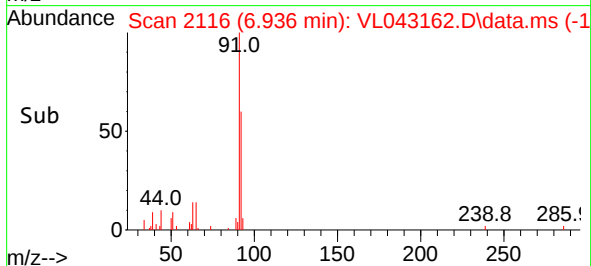
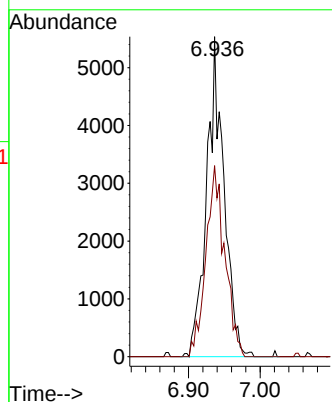
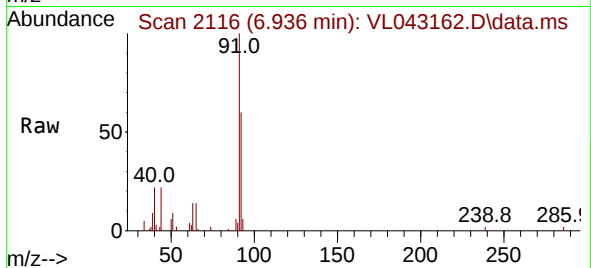
#53
Toluene
Concen: 0.241 ppbv m
RT: 6.936 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Instrument :
MSVOA_L
ClientSampleId :
131-IA2

Tgt Ion: 91 Resp: 9312
Ion Ratio Lower Upper
91 100
92 65.0 48.8 73.2

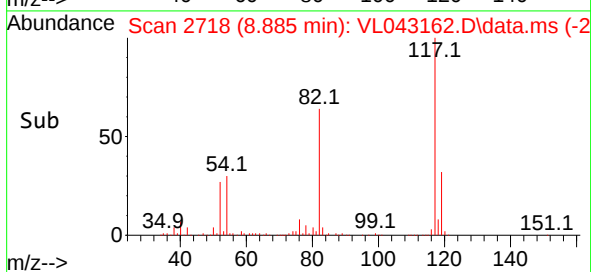
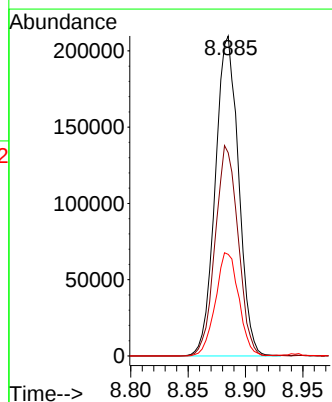
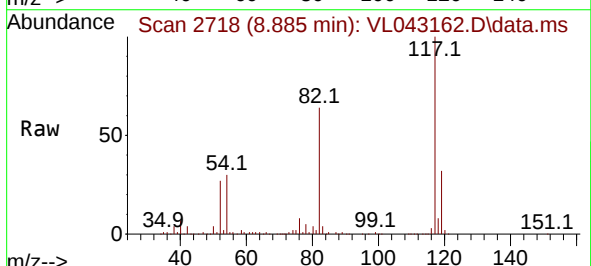
Manual Integrations
APPROVED

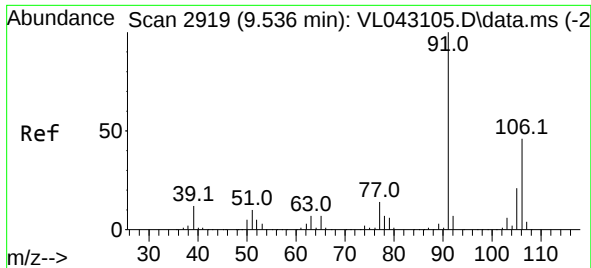
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Tgt Ion:117 Resp: 296213
Ion Ratio Lower Upper
117 100
82 64.9 53.8 80.8
119 32.4 25.4 38.0





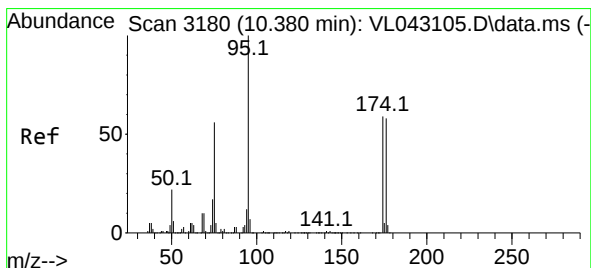
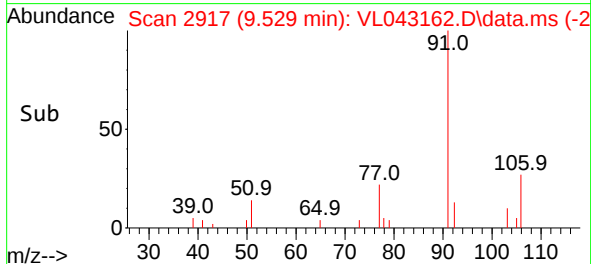
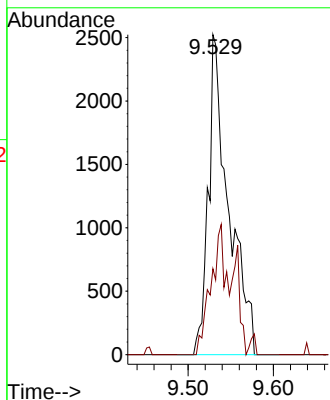
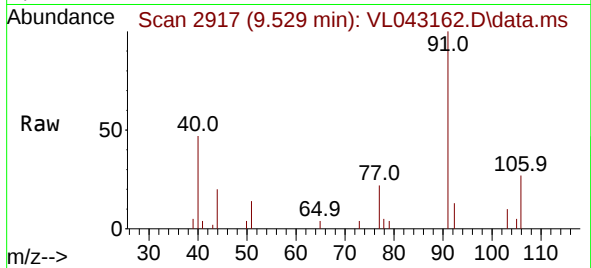
#59
m/p-Xylene
Concen: 0.102 ppbv m
RT: 9.529 min Scan# 2919
Delta R.T. -0.007 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Instrument :
MSVOA_L
ClientSampleId :
131-IA2

Tgt Ion: 91 Resp: 4150
Ion Ratio Lower Upper
91 100
106 44.2 38.0 57.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.023 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043162.D
Acq: 06 Nov 2025 12:10

Tgt Ion: 95 Resp: 230759
Ion Ratio Lower Upper
95 100
174 65.1 48.3 72.5
175 4.6 3.8 5.8

