

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120225\
 Data File : VL043298.D
 Acq On : 02 Dec 2025 14:49
 Operator : SY/MD
 Sample : Q3744-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025

Quant Time: Dec 03 00:07:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	127150	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	321760	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.894	117	243149	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	174969	9.817	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	10178	0.568	ppbv	98
3) Chlorodifluoromethane	1.483	51	5116m	0.290	ppbv	
4) Chloromethane	1.538	50	3455	0.515	ppbv	93
9) Propene	1.496	41	13356	1.783	ppbv #	1
10) Heptane	5.007	43	2368m	0.106	ppbv	
11) Trichlorofluoromethane	1.887	101	5474	0.315	ppbv	91
13) Ethanol	1.729	45	43530	16.529	ppbv	95
15) Acetone	1.845	43	51387	2.909	ppbv	93
19) Isopropyl Alcohol	1.894	45	21548	2.159	ppbv #	76
20) Methylene Chloride	2.072	84	10813	1.402	ppbv	89
26) Hexane	2.839	57	13007	0.779	ppbv #	50
34) 2-Butanone	2.570	43	5805m	0.256	ppbv	
35) Carbon Tetrachloride	3.784	117	2022m	0.083	ppbv	
36) Benzene	3.674	78	9284	0.301	ppbv #	87
44) 2,2,4-Trimethylpentane	4.664	57	9551m	0.180	ppbv	
53) Toluene	6.959	91	40037	1.097	ppbv	97
59) m/p-Xylene	9.552	91	9374m	0.250	ppbv	

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

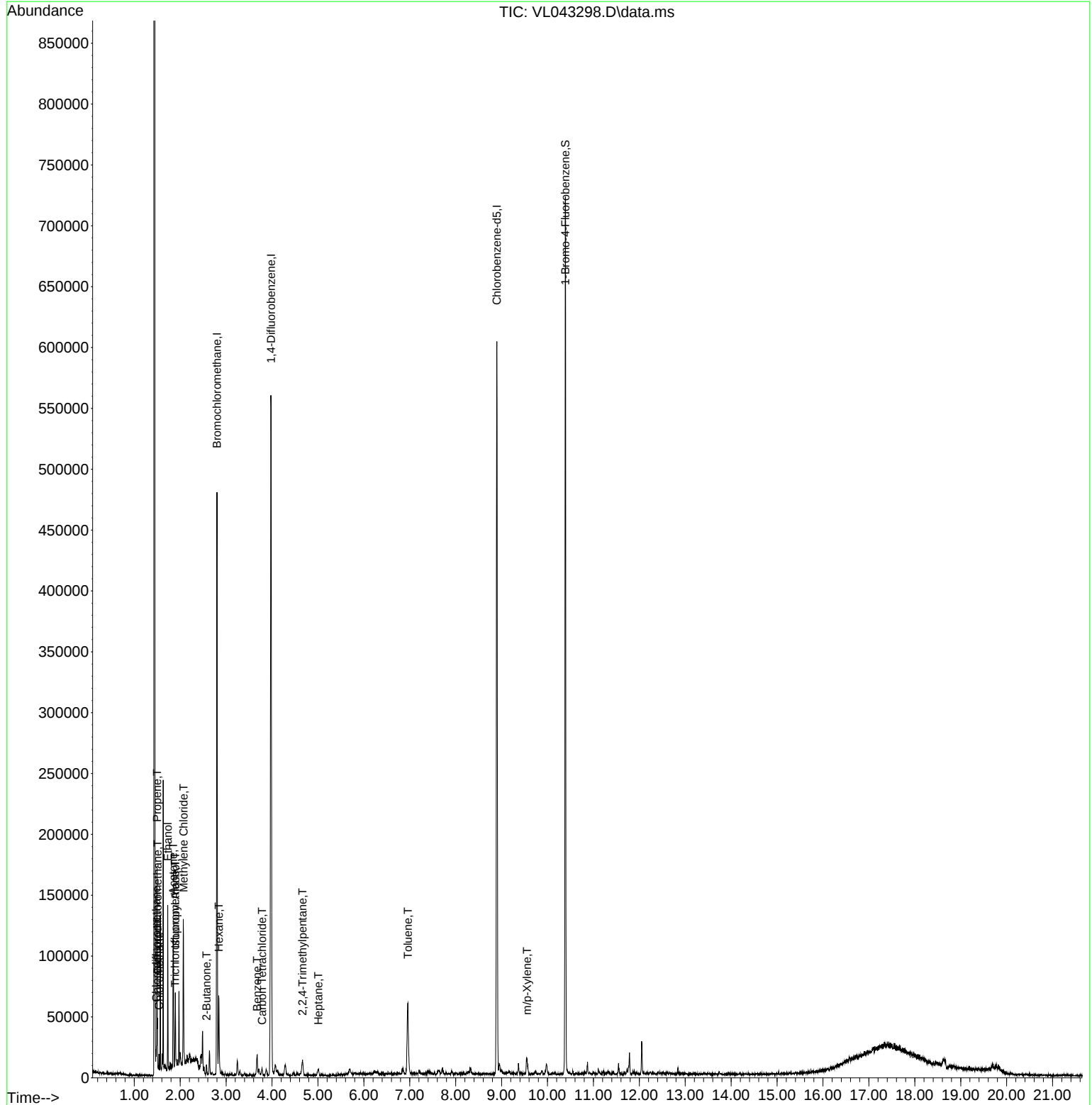
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120225\
Data File : VL043298.D
Acq On : 02 Dec 2025 14:49
Operator : SY/MD
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ALS Vial : 1 Sample Multiplier: 1

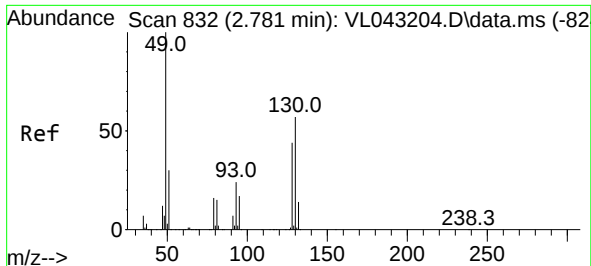
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Dec 03 00:07:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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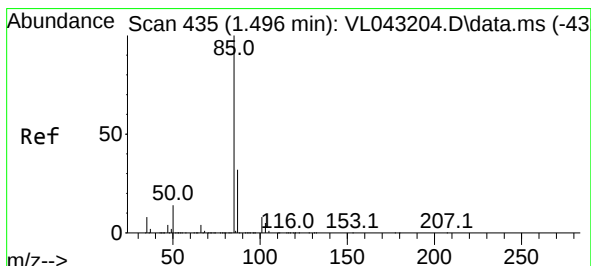
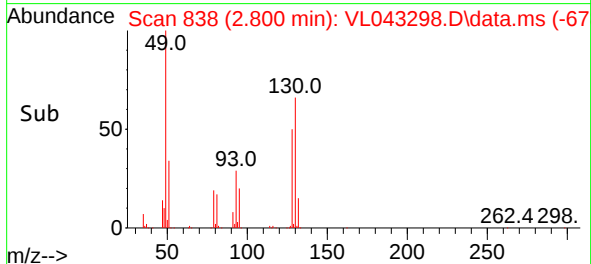
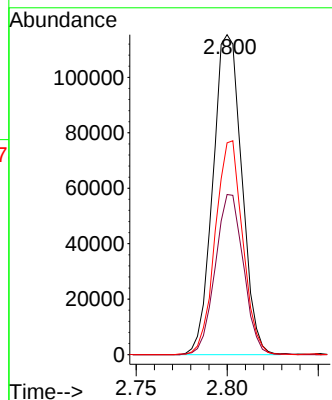
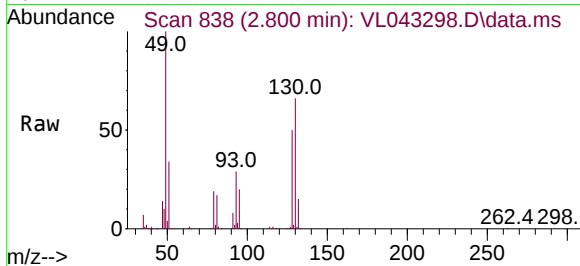
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 832
Delta R.T. 0.019 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 127150
Ion Ratio Lower Upper
49 100
128 48.8 23.0 69.0
130 63.7 29.9 89.7

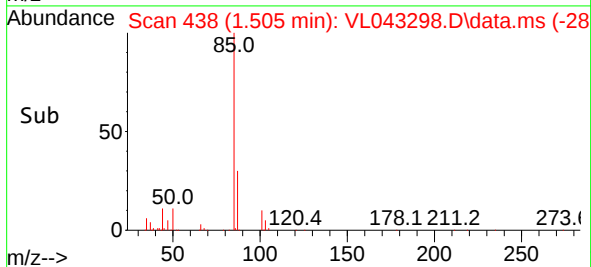
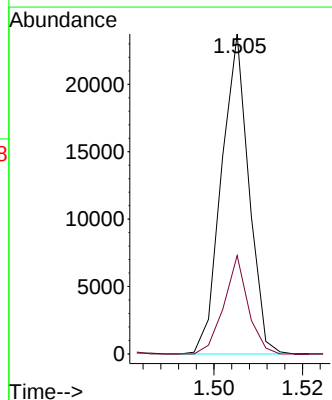
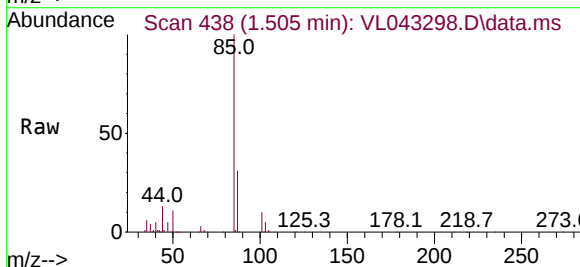
Manual Integrations
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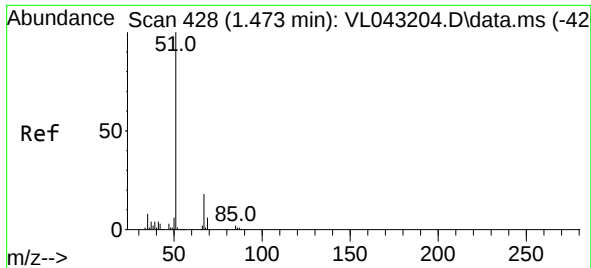
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#2
Dichlorodifluoromethane
Concen: 0.568 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.009 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

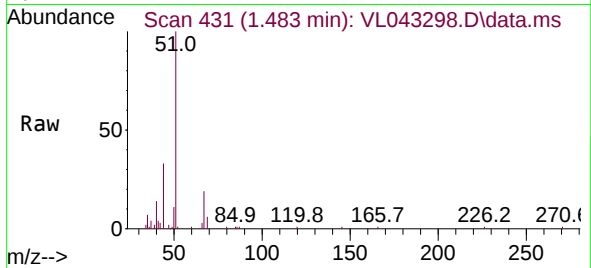
Tgt Ion: 85 Resp: 10178
Ion Ratio Lower Upper
85 100
87 30.7 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.290 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. 0.009 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

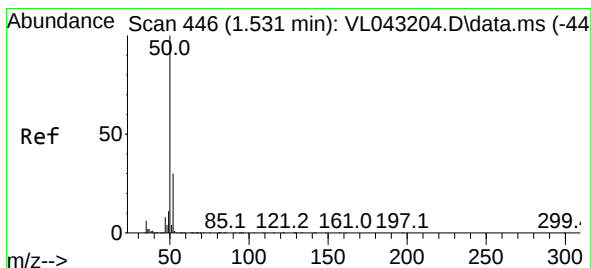
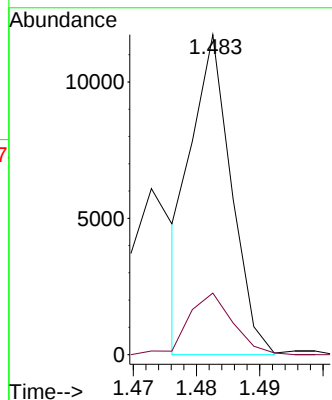
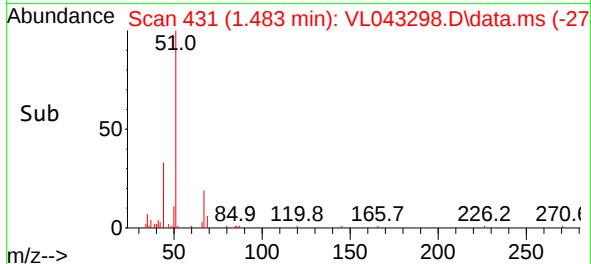
Instrument :
MSVOA_L
ClientSampleId :
IA2



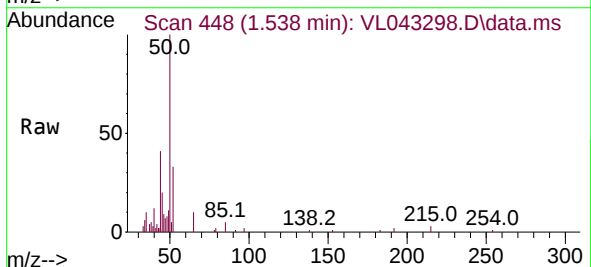
Tgt Ion: 51 Resp: 5116
Ion Ratio Lower Upper
51 100
67 21.6 14.9 22.3

Manual Integrations
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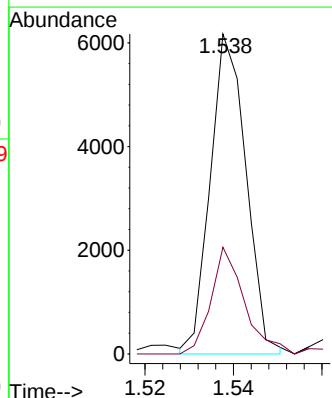
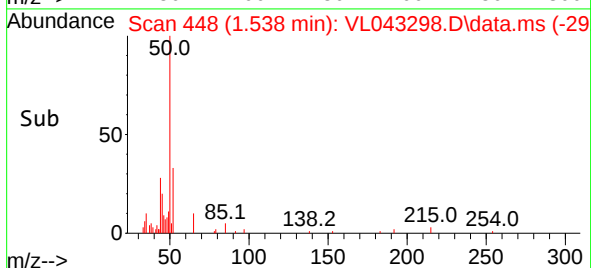
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

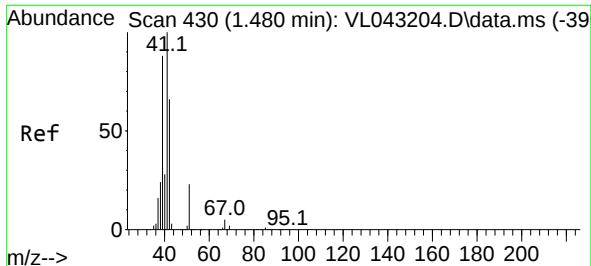


#4
Chloromethane
Concen: 0.515 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49



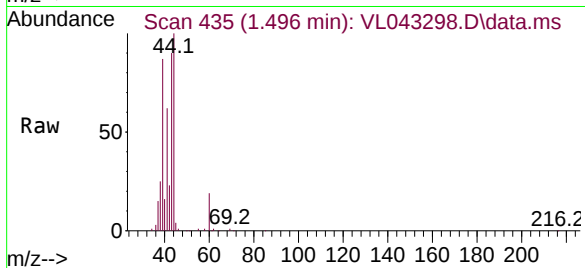
Tgt Ion: 50 Resp: 3455
Ion Ratio Lower Upper
50 100
52 33.9 24.1 36.1





#9
 Propene
 Concen: 1.783 ppbv
 RT: 1.496 min Scan# 431
 Delta R.T. 0.016 min
 Lab File: VL043298.D
 Acq: 02 Dec 2025 14:49

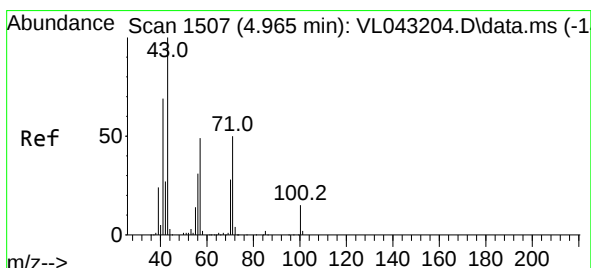
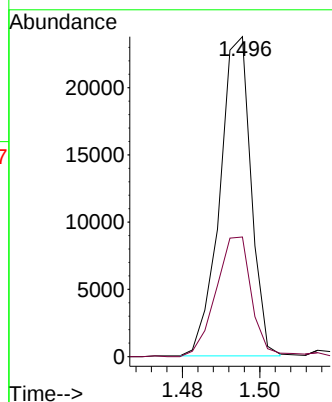
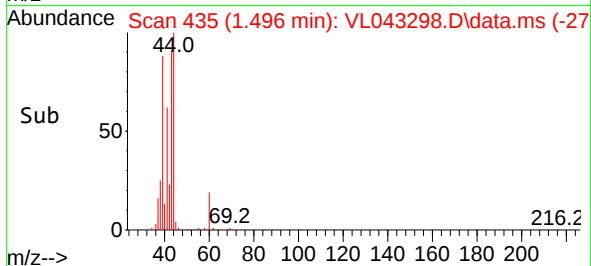
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion: 41 Resp: 13356
 Ion Ratio Lower Upper
 41 100
 42 43.9 3.7 5.5

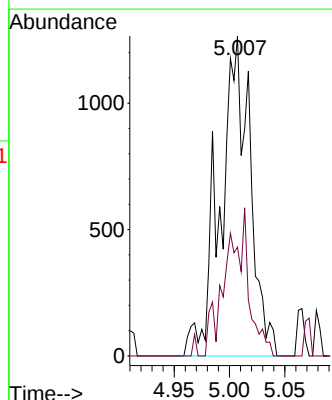
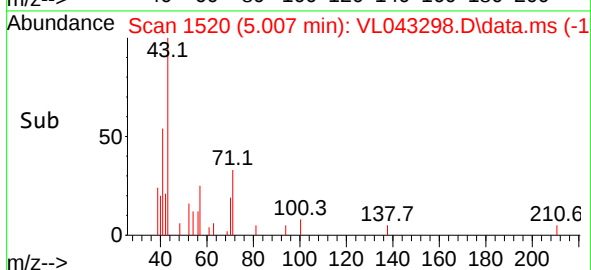
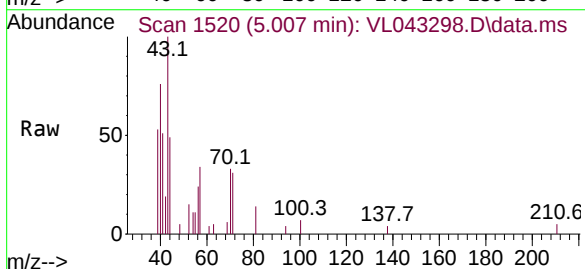
Manual Integrations
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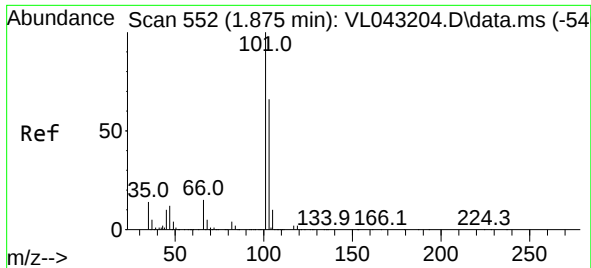
Reviewed By :Semsettin Yesilyurt 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025



#10
 Heptane
 Concen: 0.106 ppbv m
 RT: 5.007 min Scan# 1520
 Delta R.T. 0.042 min
 Lab File: VL043298.D
 Acq: 02 Dec 2025 14:49

Tgt Ion: 43 Resp: 2368
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





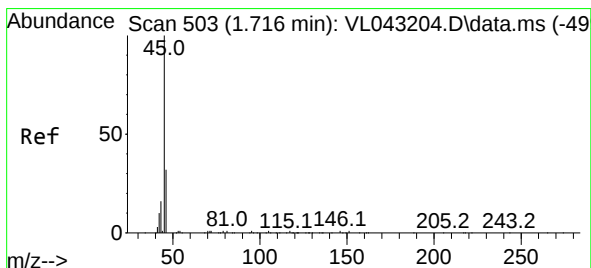
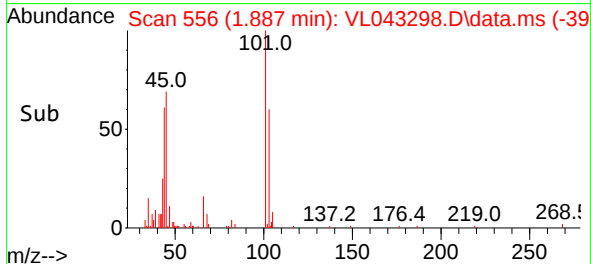
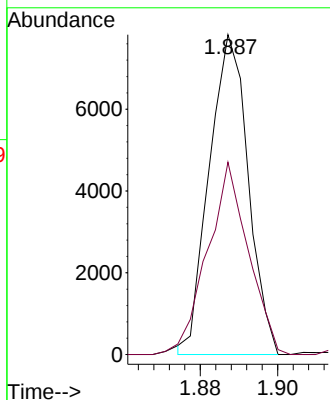
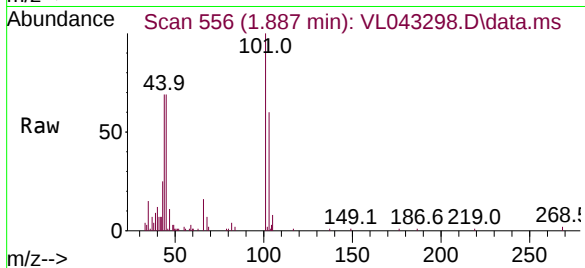
#11
 Trichlorofluoromethane
 Concen: 0.315 ppbv
 RT: 1.887 min Scan# 51
 Delta R.T. 0.013 min
 Lab File: VL043298.D
 Acq: 02 Dec 2025 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tgt Ion:101 Resp: 5474
 Ion Ratio Lower Upper
 101 100
 103 58.5 52.6 79.0

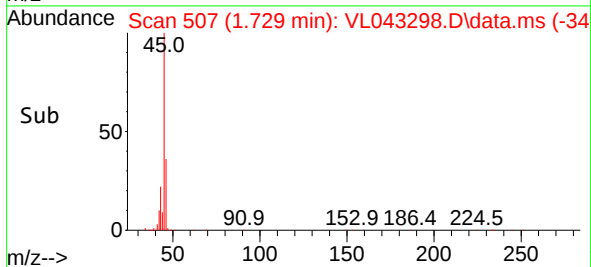
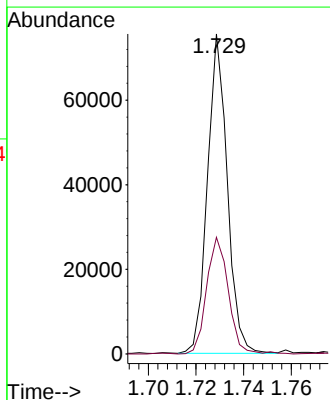
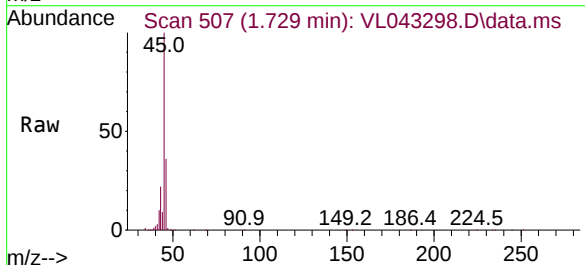
Manual Integrations
 APPROVED

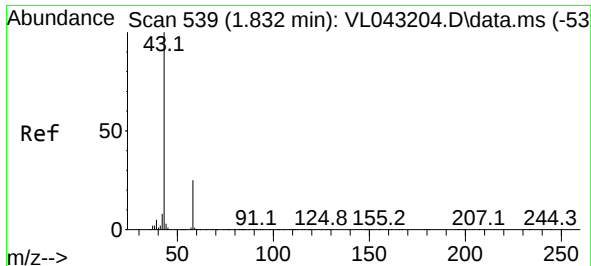
Reviewed By :Semsettin Yesilyurt 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025



#13
 Ethanol
 Concen: 16.529 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. 0.013 min
 Lab File: VL043298.D
 Acq: 02 Dec 2025 14:49

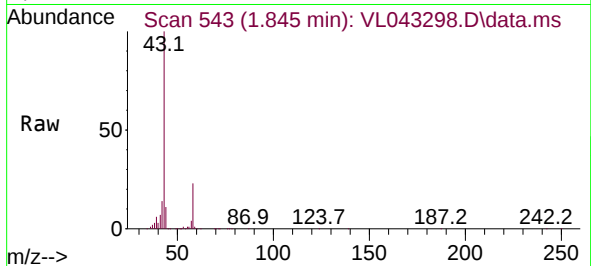
Tgt Ion: 45 Resp: 43530
 Ion Ratio Lower Upper
 45 100
 46 40.5 15.0 59.8





#15
Acetone
Concen: 2.909 ppbv
RT: 1.845 min Scan# 541
Delta R.T. 0.013 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

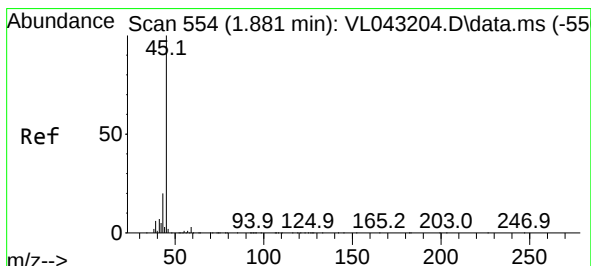
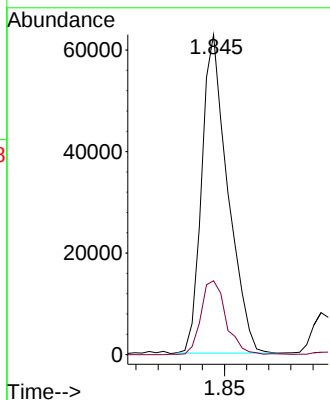
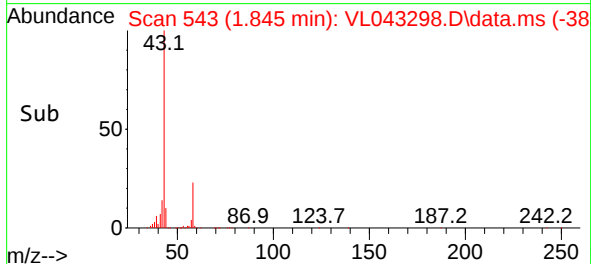
Instrument :
MSVOA_L
ClientSampleId :
IA2



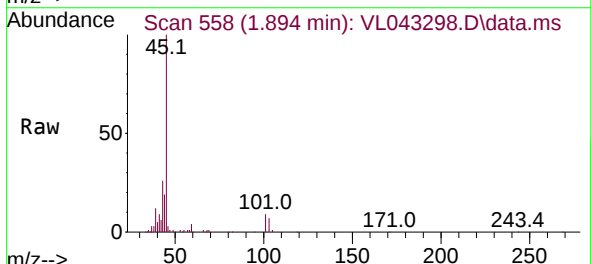
Tgt Ion: 43 Resp: 5138
Ion Ratio Lower Upper
43 100
58 22.5 20.7 31.1

Manual Integrations
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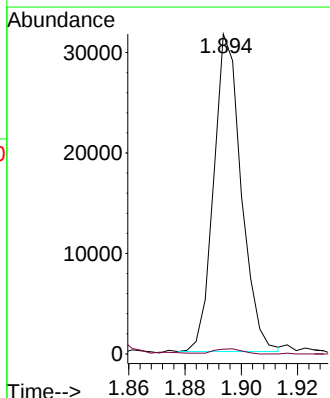
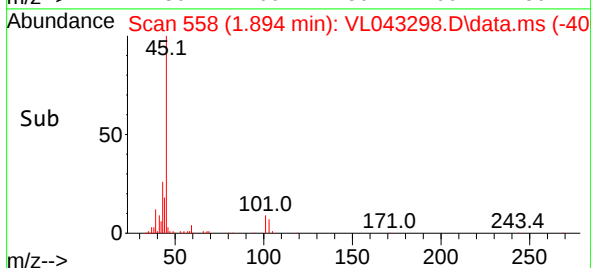
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

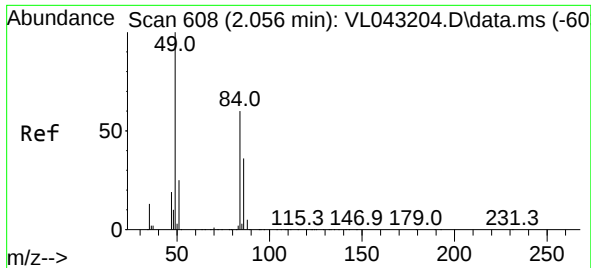


#19
Isopropyl Alcohol
Concen: 2.159 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.013 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49



Tgt Ion: 45 Resp: 21548
Ion Ratio Lower Upper
45 100
58 53.8 31.3 46.9#





#20
Methylene Chloride
Concen: 1.402 ppbv
RT: 2.072 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

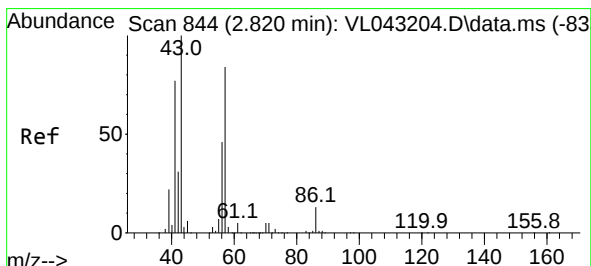
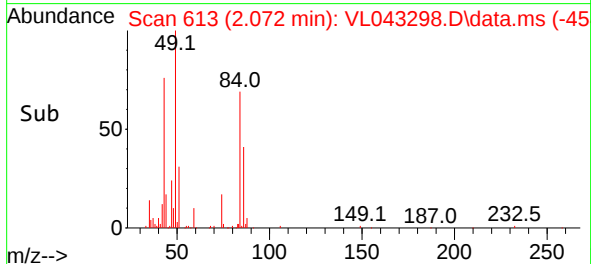
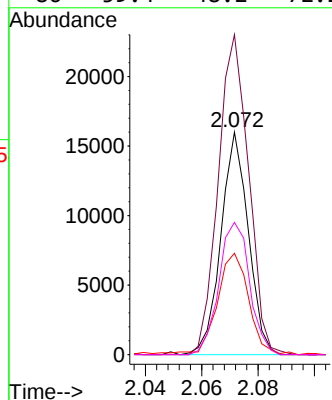
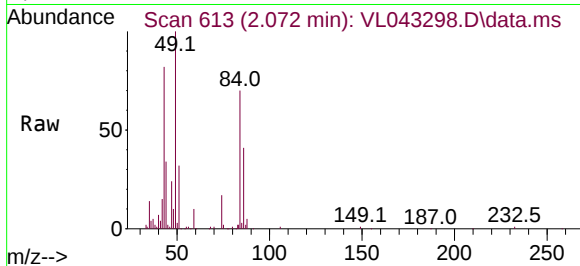
Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 84 Resp: 10813

Ion	Ratio	Lower	Upper
84	100		
49	143.8	132.9	199.3
51	45.1	34.8	52.2
86	59.4	48.2	72.2

Manual Integrations
APPROVED

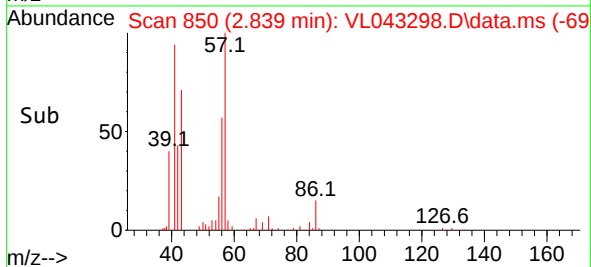
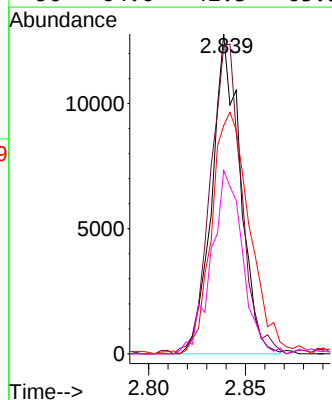
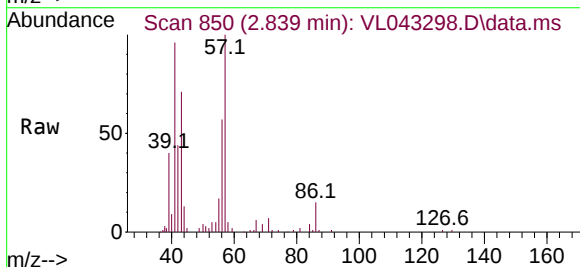
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

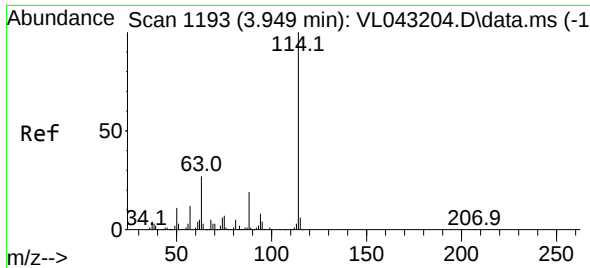


#26
Hexane
Concen: 0.779 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.019 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

Tgt Ion: 57 Resp: 13007

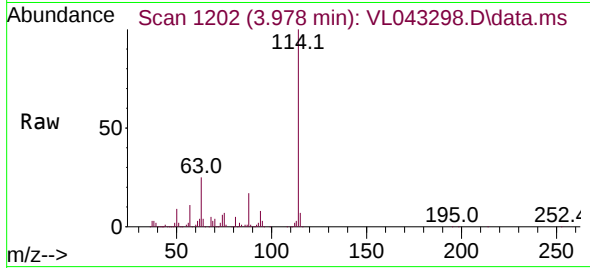
Ion	Ratio	Lower	Upper
57	100		
41	107.0	74.6	111.8
43	105.4	179.0	268.4#
56	64.6	42.3	63.5#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1193
Delta R.T. 0.029 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

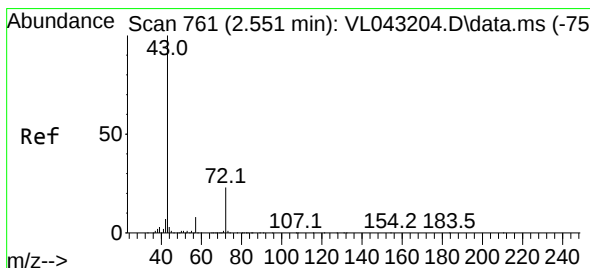
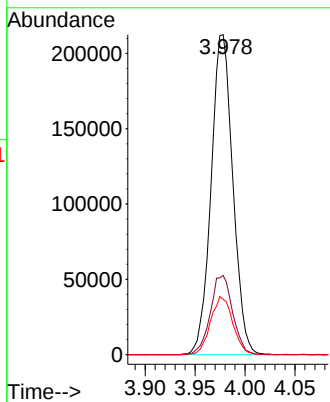
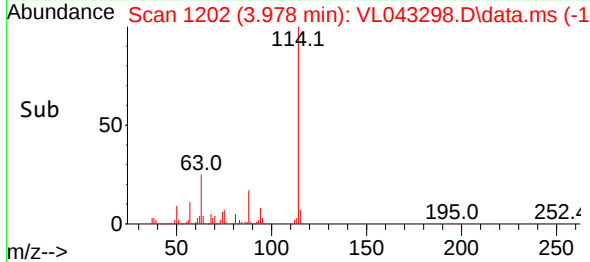
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:114 Resp: 321760
Ion Ratio Lower Upper
114 100
63 25.4 21.0 31.6
88 18.5 14.9 22.3

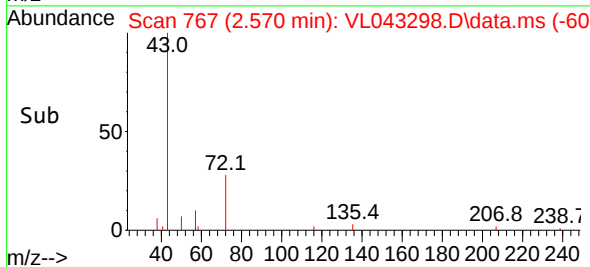
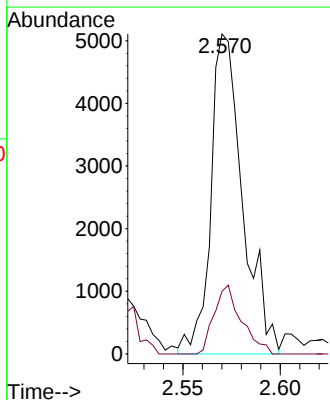
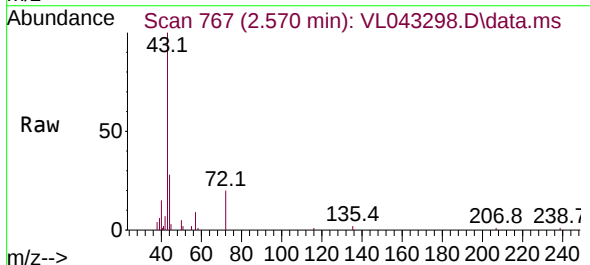
Manual Integrations
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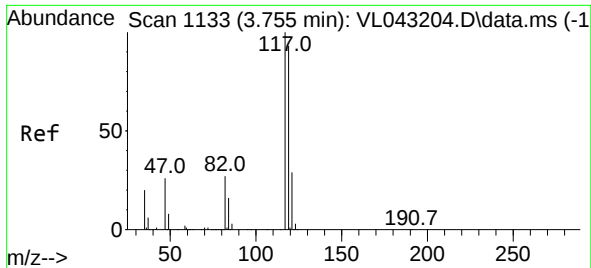
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#34
2-Butanone
Concen: 0.256 ppbv m
RT: 2.570 min Scan# 767
Delta R.T. 0.019 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

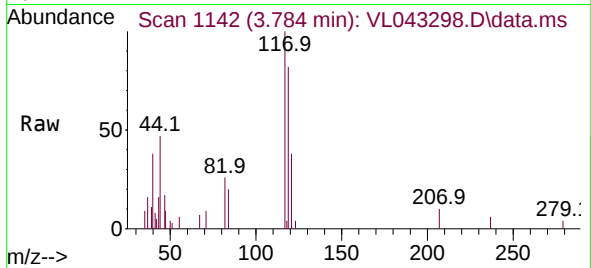
Tgt Ion: 43 Resp: 5805
Ion Ratio Lower Upper
43 100
72 18.4 18.1 27.1





#35
Carbon Tetrachloride
Concen: 0.083 ppbv m
RT: 3.784 min Scan# 1133
Delta R.T. 0.029 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

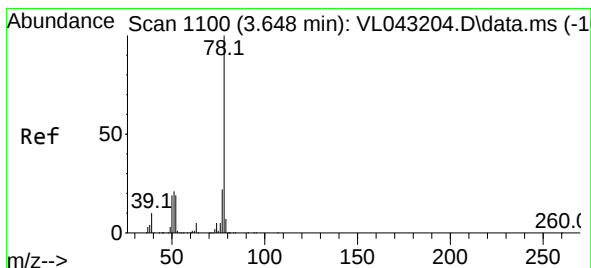
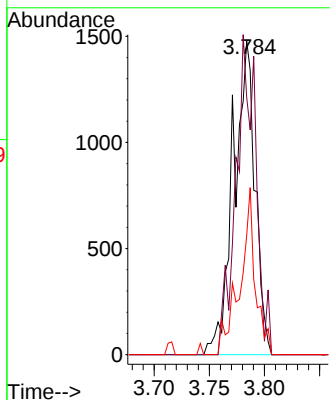
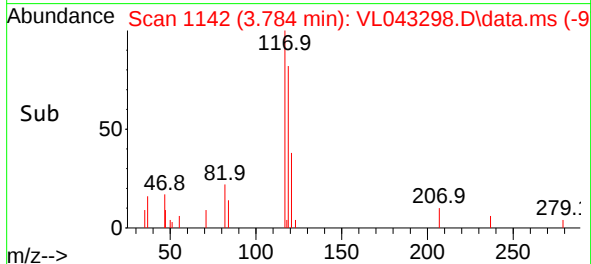
Instrument :
MSVOA_L
ClientSampleId :
IA2



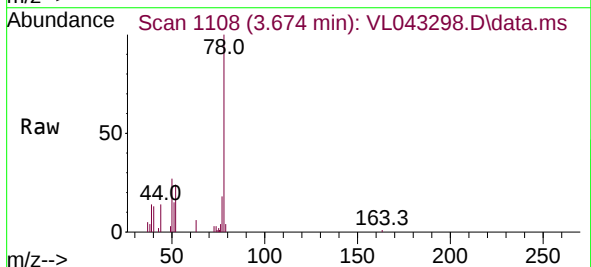
Tgt Ion: 117 Resp: 2022
Ion Ratio Lower Upper
117 100
119 82.1 74.6 112.0
121 37.9 23.2 34.8

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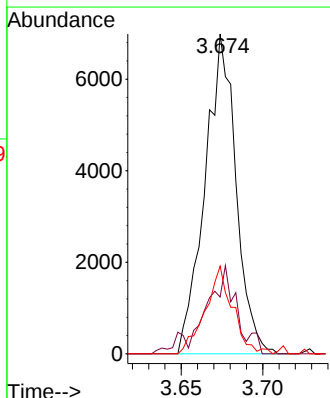
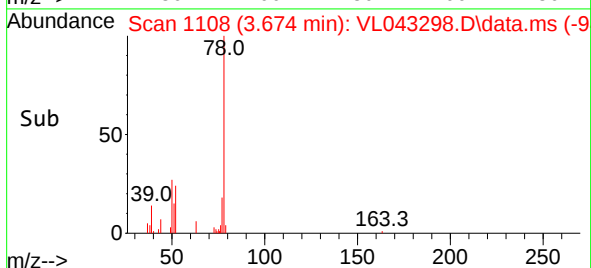
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

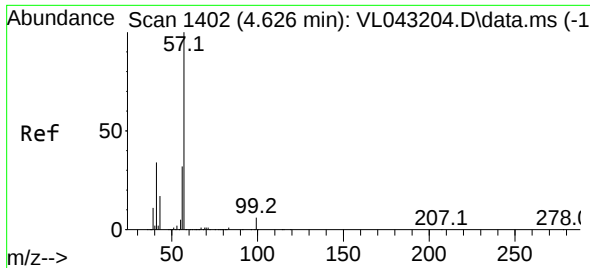


#36
Benzene
Concen: 0.301 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.026 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49



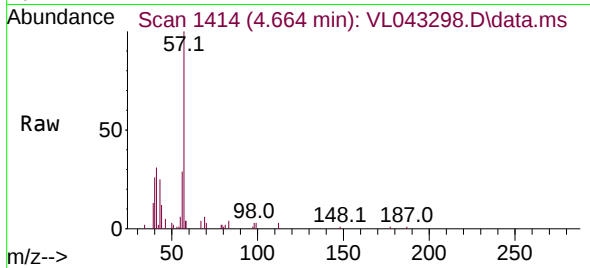
Tgt Ion: 78 Resp: 9284
Ion Ratio Lower Upper
78 100
77 17.8 17.5 26.3
50 27.4 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 0.180 ppbv m
RT: 4.664 min Scan# 1402
Delta R.T. 0.039 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

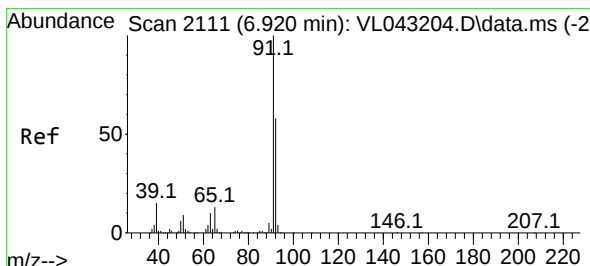
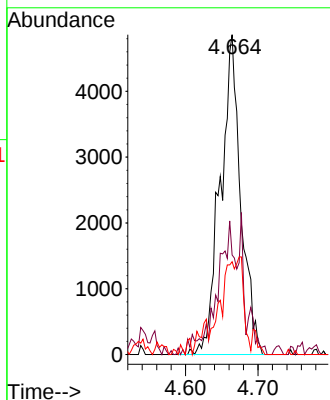
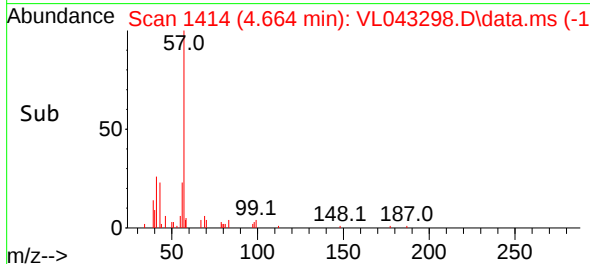
Instrument : MSVOA_L
ClientSampleId : 1A2



Tgt Ion: 57 Resp: 955
Ion Ratio Lower Upper
57 100
41 51.6 28.0 42.0
56 42.4 25.6 38.4

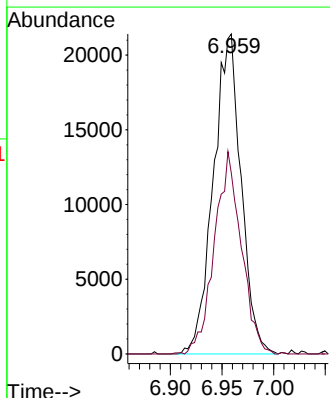
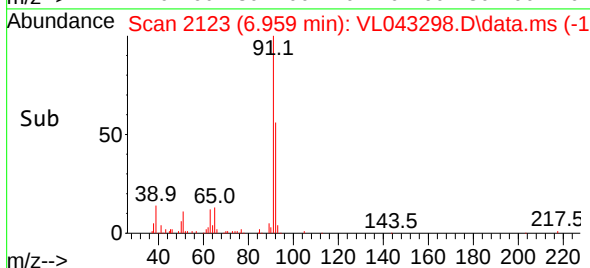
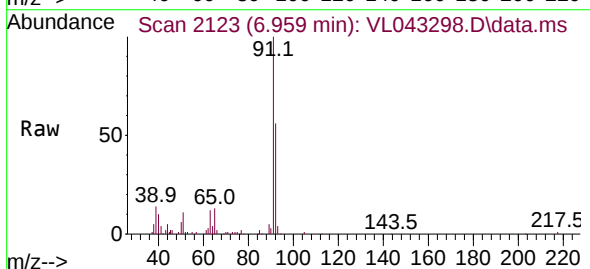
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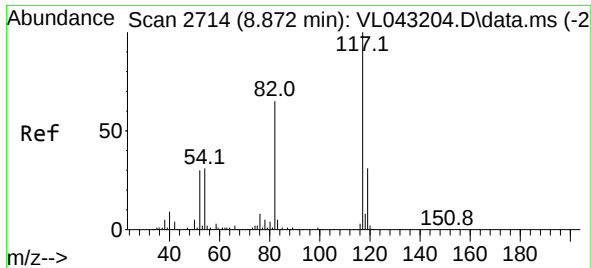
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#53
Toluene
Concen: 1.097 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. 0.039 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

Tgt Ion: 91 Resp: 40037
Ion Ratio Lower Upper
91 100
92 61.1 47.4 71.0





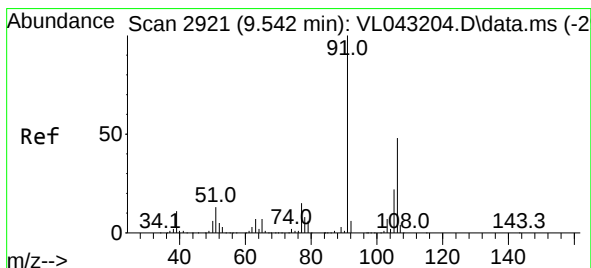
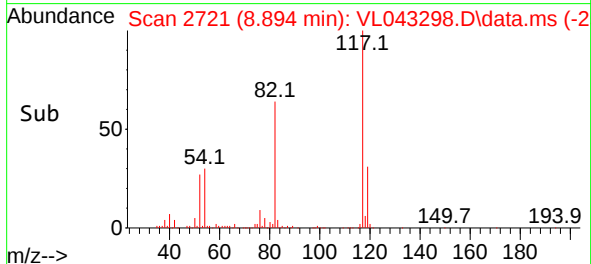
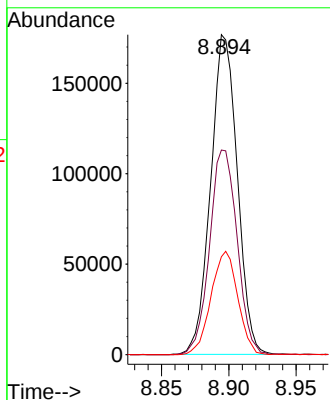
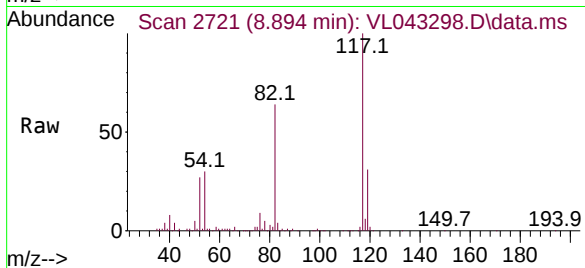
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2714
Delta R.T. 0.022 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 117 Resp: 243149
Ion Ratio Lower Upper
117 100
82 66.3 56.1 84.1
119 32.6 25.0 37.6

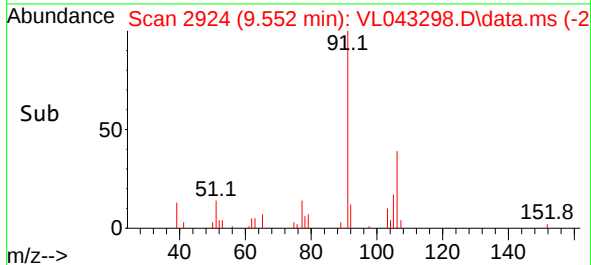
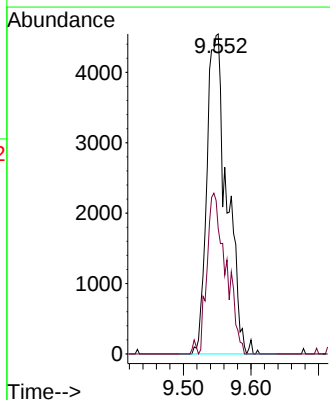
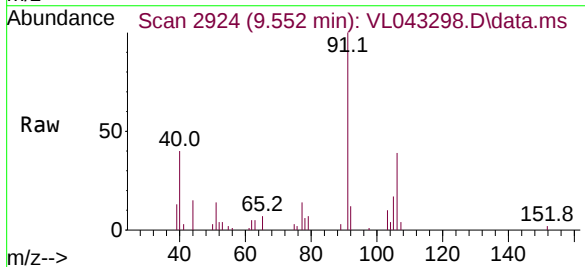
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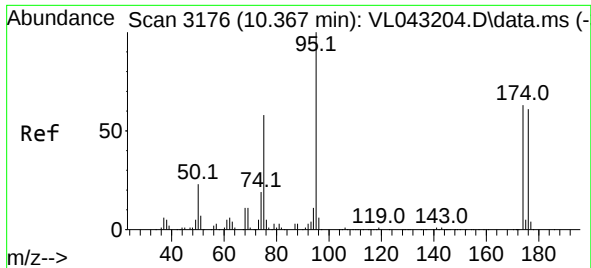
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#59
m/p-Xylene
Concen: 0.250 ppbv m
RT: 9.552 min Scan# 2924
Delta R.T. 0.009 min
Lab File: VL043298.D
Acq: 02 Dec 2025 14:49

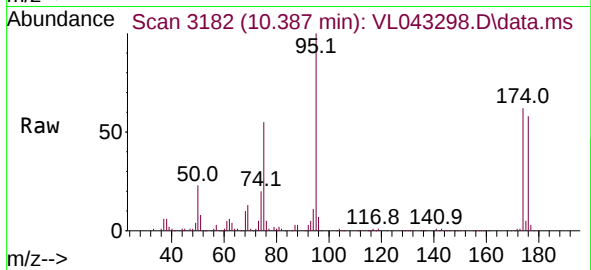
Tgt Ion: 91 Resp: 9374
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.817 ppbv
 RT: 10.387 min Scan# 3176
 Delta R.T. 0.019 min
 Lab File: VL043298.D
 Acq: 02 Dec 2025 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion: 95 Resp: 174969

Ion	Ratio	Lower	Upper
95	100		
174	66.3	50.2	75.2
175	4.9	4.1	6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025

