

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041902.D
 Acq On : 14 Jan 2025 21:14
 Operator : SY/MD
 Sample : Q1073-04DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:27:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	136404	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	393396	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	334705	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	269632	10.228	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.300%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	7612	0.410	ppbv	99
4) Chloromethane	1.534	50	3921	0.561	ppbv #	89
9) Propene	1.486	41	6864	0.856	ppbv #	83
10) Heptane	4.998	43	3008m	0.140	ppbv	
11) Trichlorofluoromethane	1.877	101	5021m	0.260	ppbv	
13) Ethanol	1.722	45	31885	54.290	ppbv	85
15) Acetone	1.839	43	72709	4.438	ppbv	99
19) Isopropyl Alcohol	1.887	45	25282	2.603	ppbv #	47
20) Methylene Chloride	2.065	84	2018	0.312	ppbv #	72
26) Hexane	2.829	57	5925	0.339	ppbv #	53
34) 2-Butanone	2.564	43	30406	1.215	ppbv	98
35) Carbon Tetrachloride	3.771	117	1881m	0.076	ppbv	
36) Benzene	3.661	78	7859	0.218	ppbv	95
52) Tetrachloroethene	8.231	164	993m	0.079	ppbv	
53) Toluene	6.943	91	26752	0.681	ppbv	100
59) m/p-Xylene	9.535	91	4279m	0.102	ppbv	

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

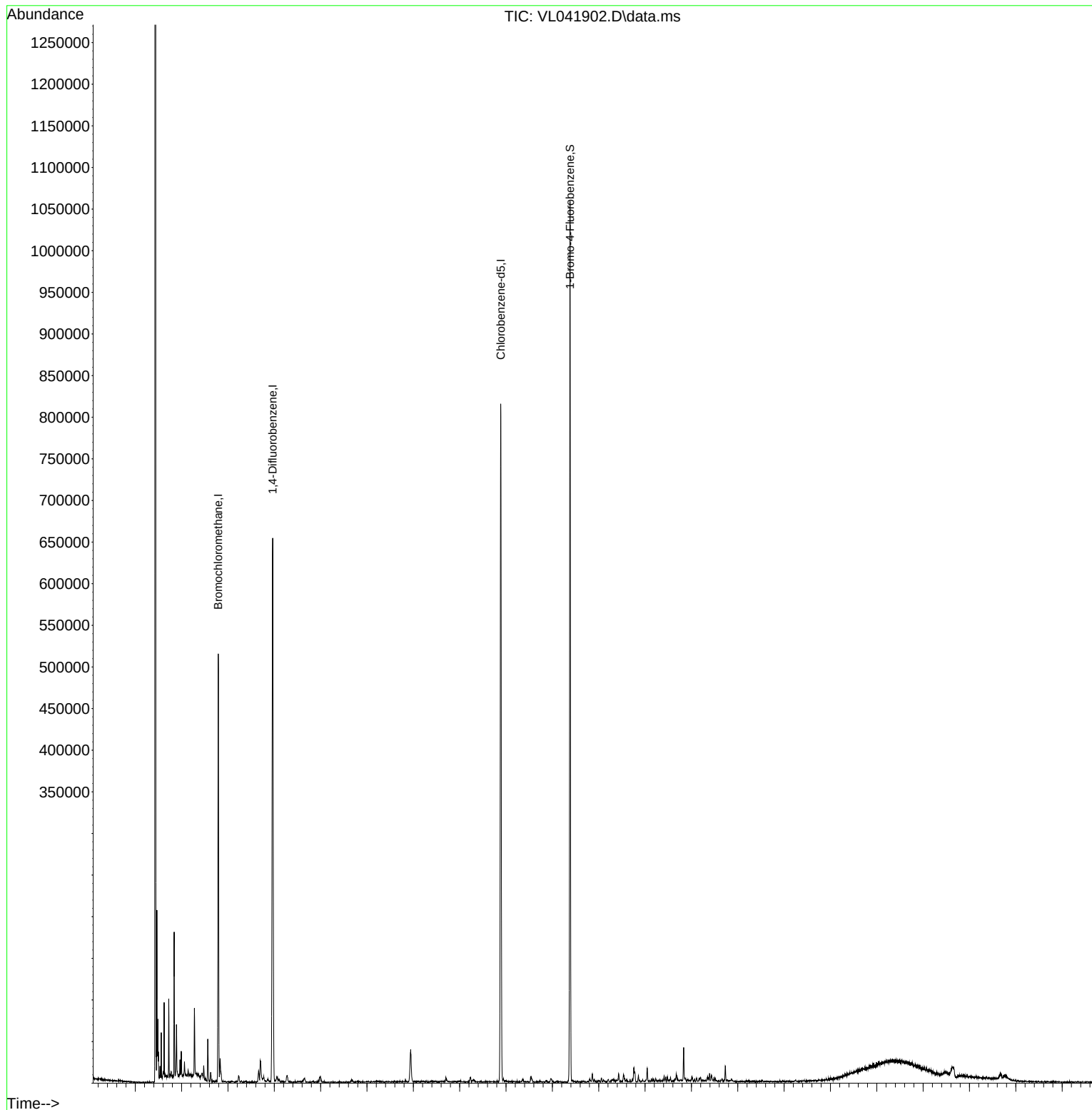
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041902.D
Acq On : 14 Jan 2025 21:14
Operator : SY/MD
Sample : Q1073-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

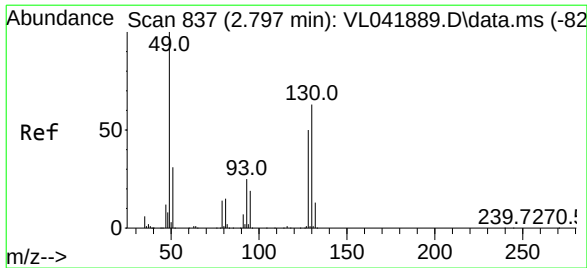
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Jan 15 03:27:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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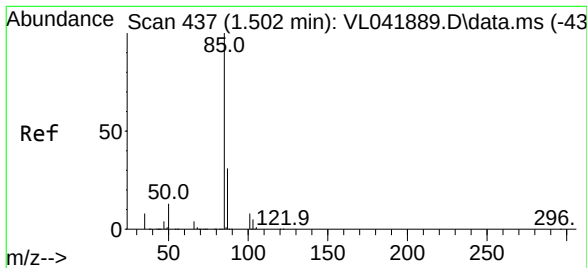
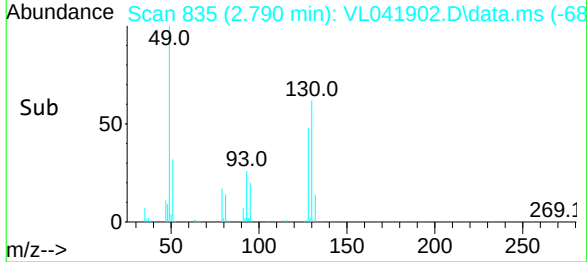
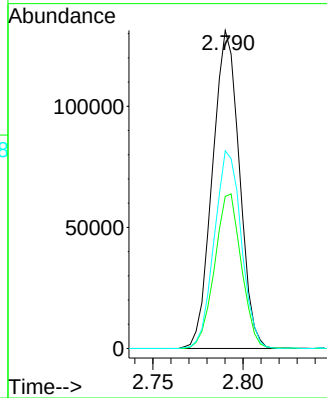
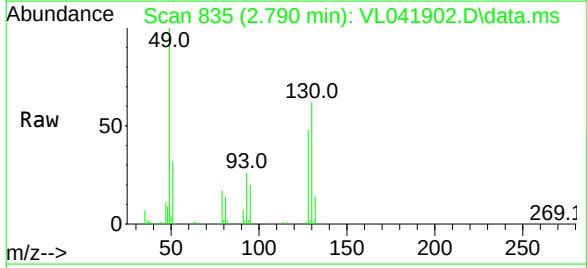
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 83
Delta R.T. -0.007 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 49 Resp: 136404
Ion Ratio Lower Upper
49 100
128 48.3 24.3 73.0
130 62.5 31.1 93.2

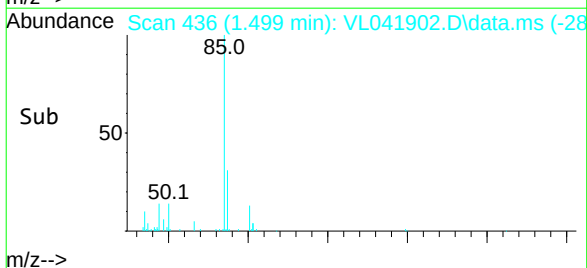
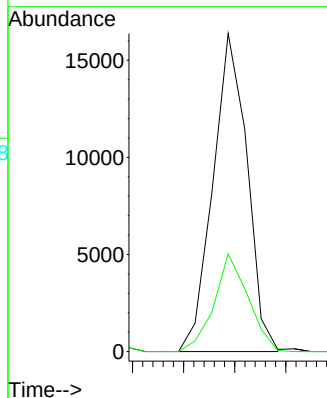
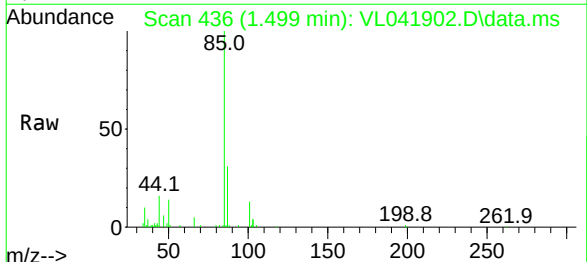
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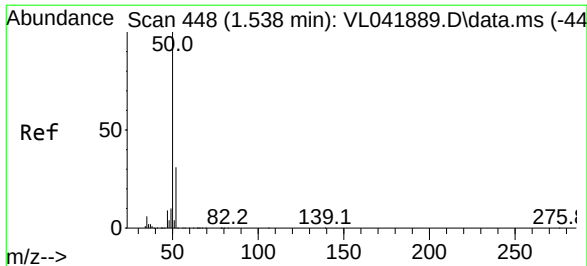
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#2
Dichlorodifluoromethane
Concen: 0.410 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

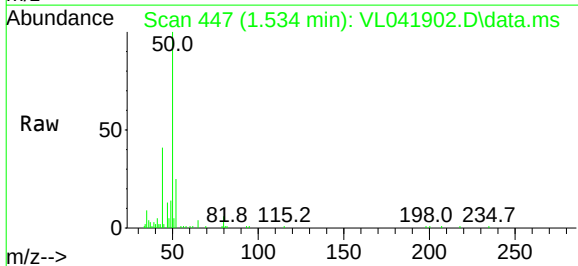
Tgt Ion: 85 Resp: 7612
Ion Ratio Lower Upper
85 100
87 30.7 24.9 37.3





#4
Chloromethane
Concen: 0.561 ppbv
RT: 1.534 min Scan# 448
Delta R.T. -0.003 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

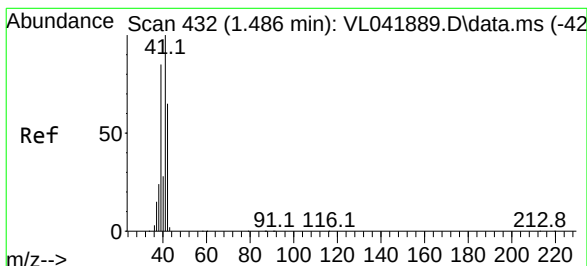
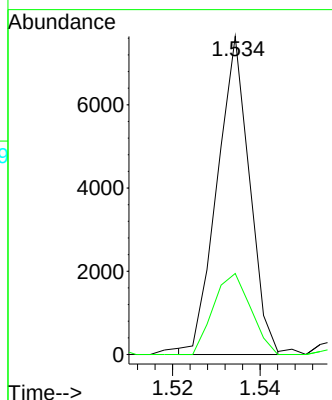
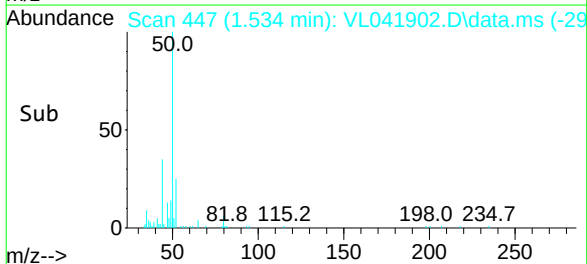
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 50 Resp: 3921
Ion Ratio Lower Upper
50 100
52 24.5 24.6 36.8#

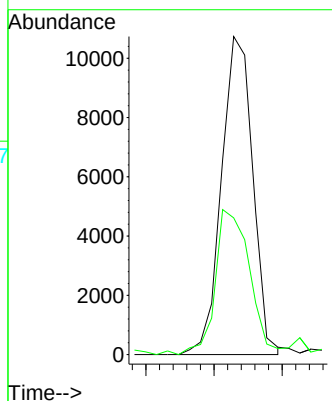
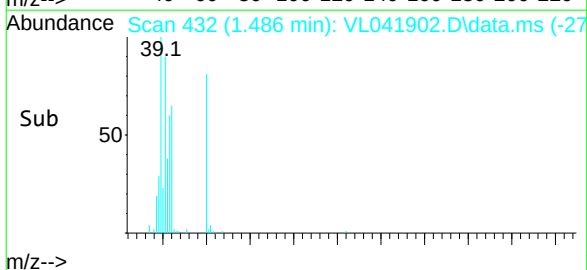
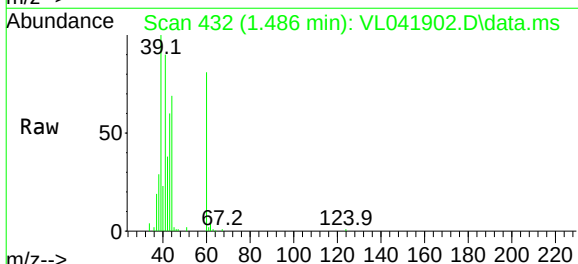
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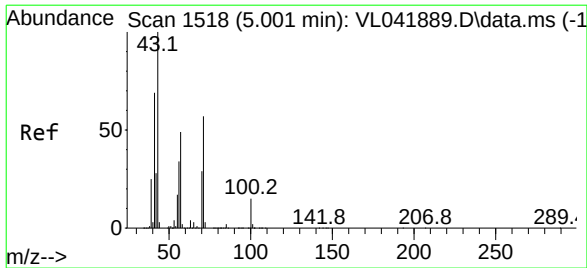
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#9
Propene
Concen: 0.856 ppbv
RT: 1.486 min Scan# 432
Delta R.T. -0.000 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Tgt Ion: 41 Resp: 6864
Ion Ratio Lower Upper
41 100
42 52.0 52.0 78.0#





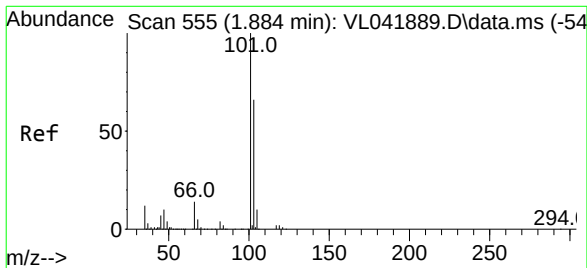
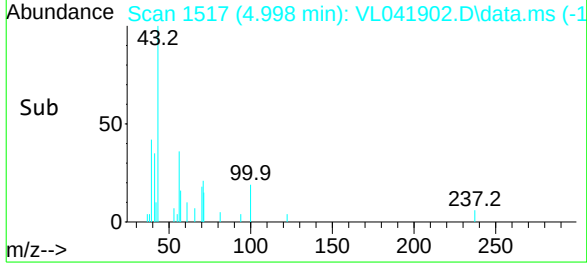
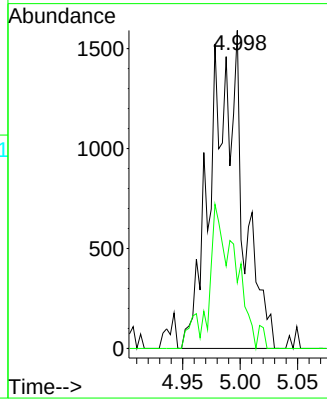
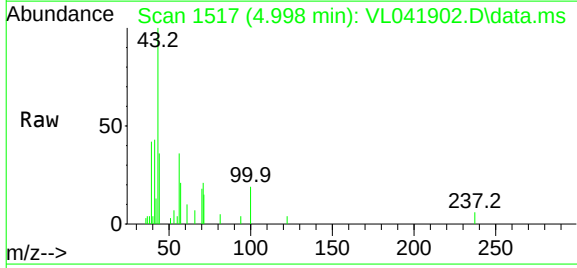
#10
Heptane
Concen: 0.140 ppbv m
RT: 4.998 min Scan# 1518
Delta R.T. -0.003 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 3008
Ion Ratio Lower Upper
43 100
57 0.0 41.0 61.4#

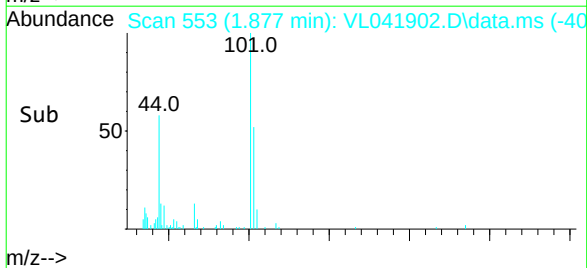
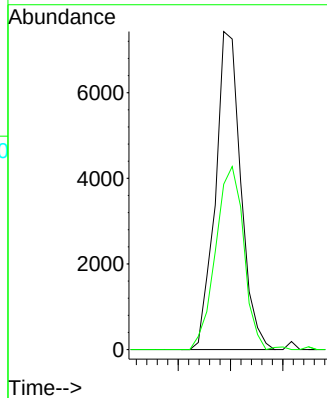
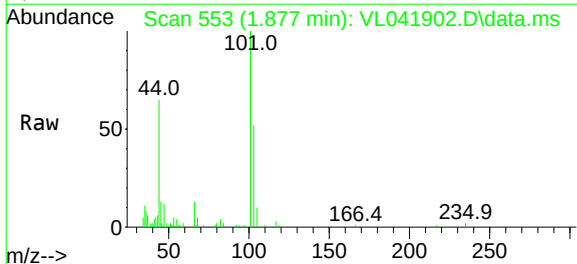
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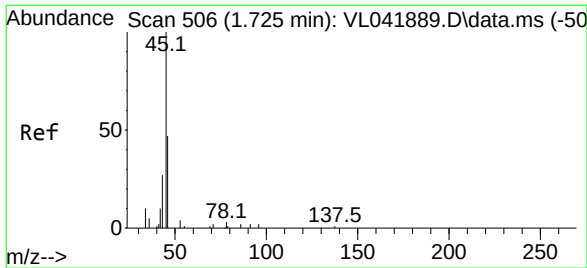
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#11
Trichlorofluoromethane
Concen: 0.260 ppbv m
RT: 1.877 min Scan# 553
Delta R.T. -0.006 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

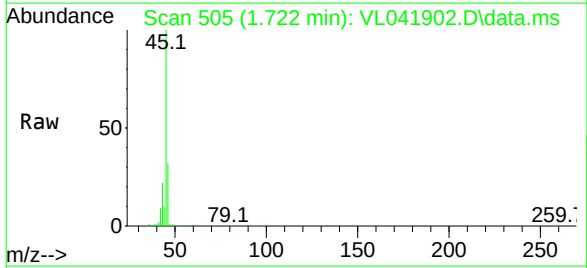
Tgt Ion:101 Resp: 5021
Ion Ratio Lower Upper
101 100
103 52.0 53.1 79.7#





#13
Ethanol
Concen: 54.290 ppbv
RT: 1.722 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

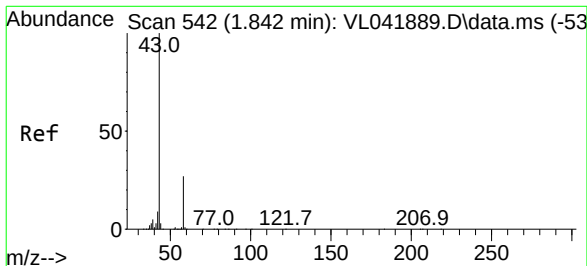
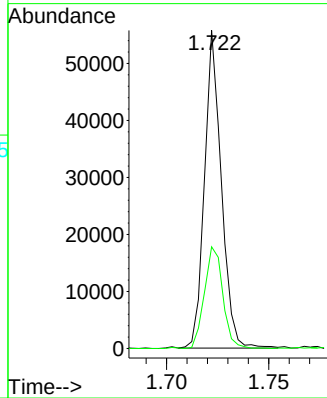
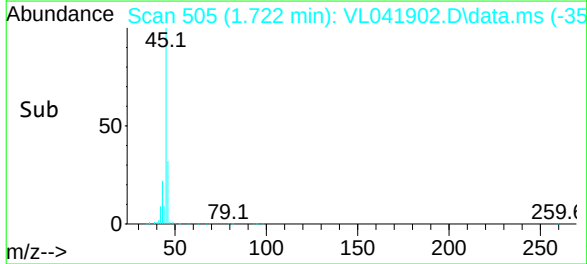
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp: 31885
Ion Ratio Lower Upper
45 100
46 35.3 18.1 72.5

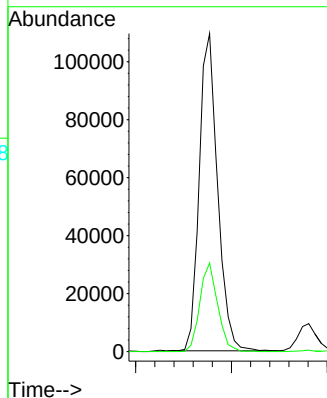
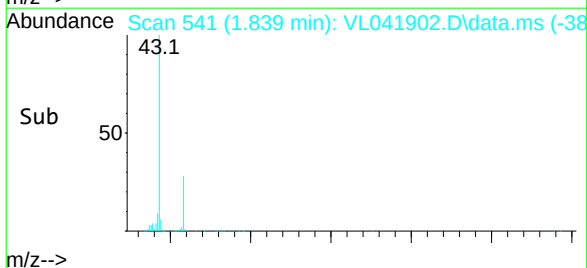
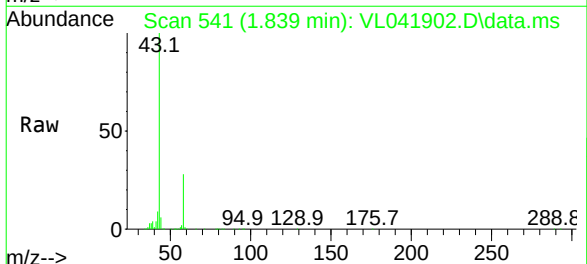
Manual Integrations
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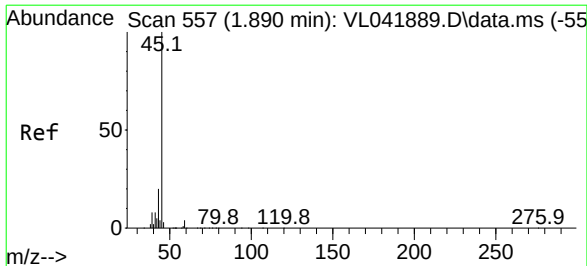
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#15
Acetone
Concen: 4.438 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Tgt Ion: 43 Resp: 72709
Ion Ratio Lower Upper
43 100
58 27.1 21.9 32.9





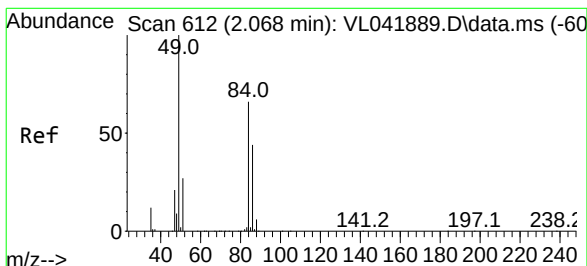
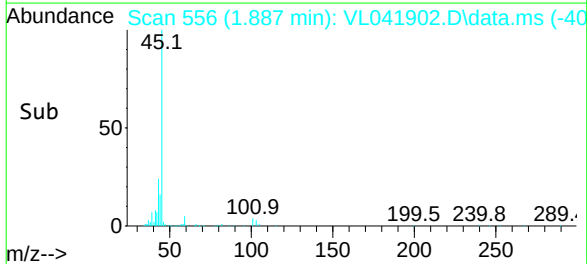
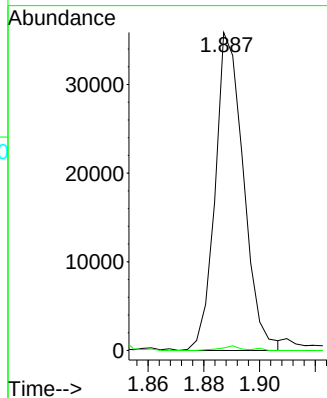
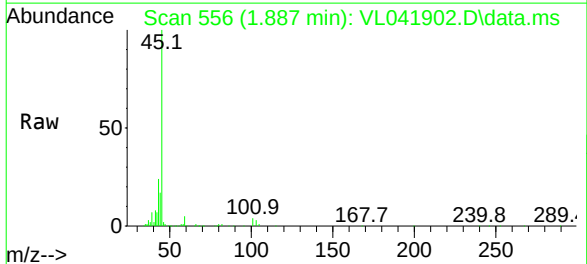
#19
Isopropyl Alcohol
Concen: 2.603 ppbv
RT: 1.887 min Scan# 557
Delta R.T. -0.003 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Instrument : MSVOA_L
ClientSampleId : IA1DUP

Tgt Ion: 45 Resp: 25282
Ion Ratio Lower Upper
45 100
58 78.0 35.0 52.6#

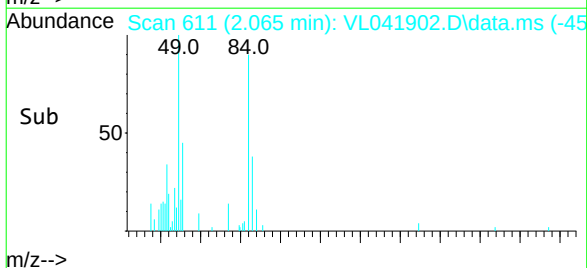
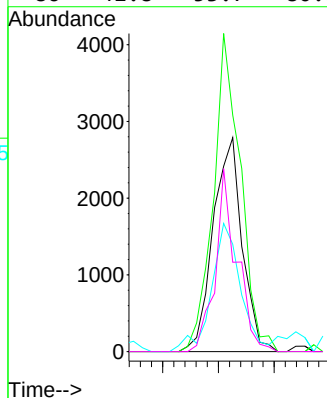
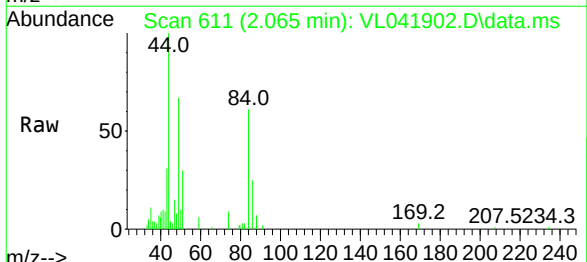
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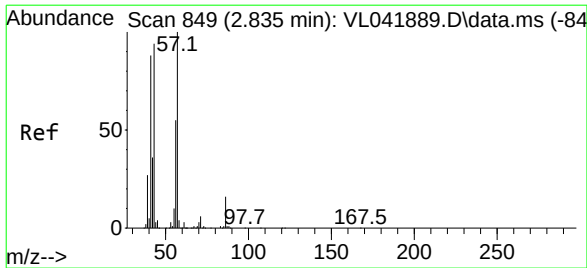
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#20
Methylene Chloride
Concen: 0.312 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

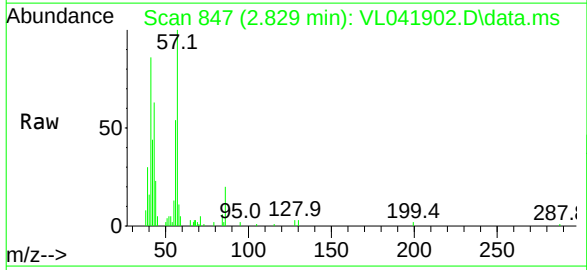
Tgt Ion: 84 Resp: 2018
Ion Ratio Lower Upper
84 100
49 110.5 123.1 184.7#
51 47.4 35.8 53.8
86 41.8 53.7 80.5#





#26
Hexane
Concen: 0.339 ppbv
RT: 2.829 min Scan# 849
Delta R.T. -0.007 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

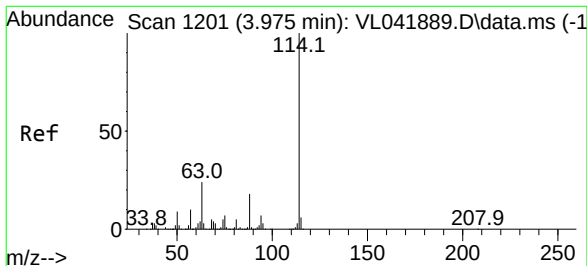
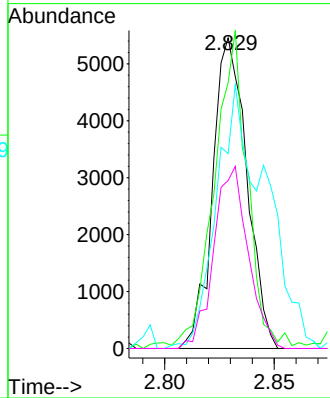
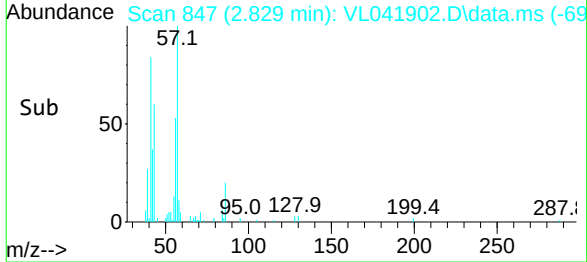
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



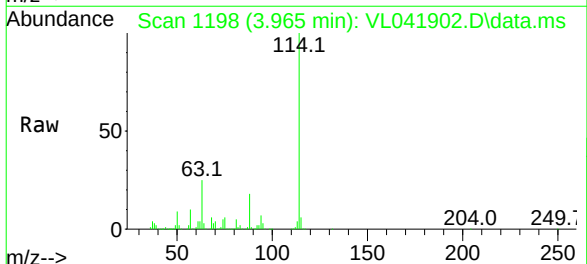
Tgt Ion: 57 Resp: 5925
Ion Ratio Lower Upper
57 100
41 100.7 73.8 110.8
43 125.2 197.3 295.9#
56 59.0 42.7 64.1

Manual Integrations
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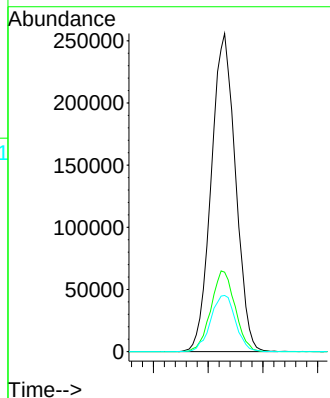
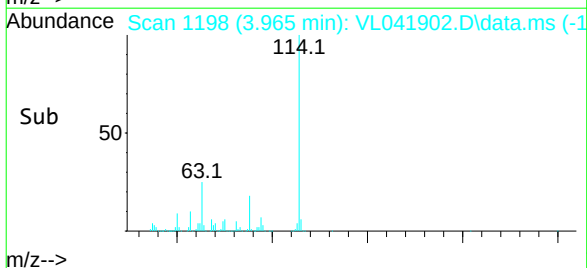
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

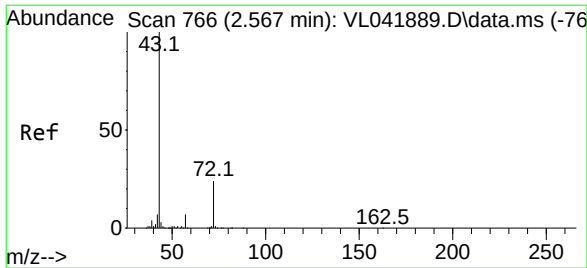


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.010 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14



Tgt Ion:114 Resp: 393396
Ion Ratio Lower Upper
114 100
63 25.2 19.8 29.6
88 18.1 14.4 21.6





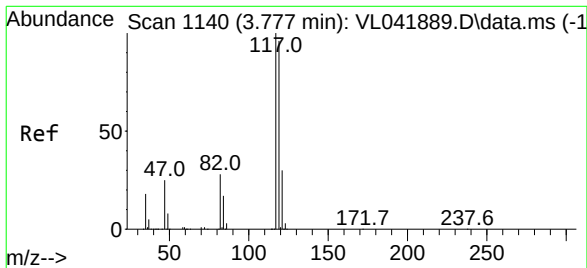
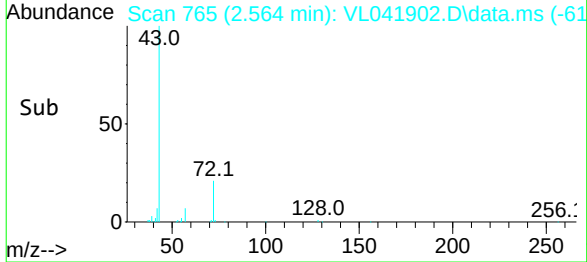
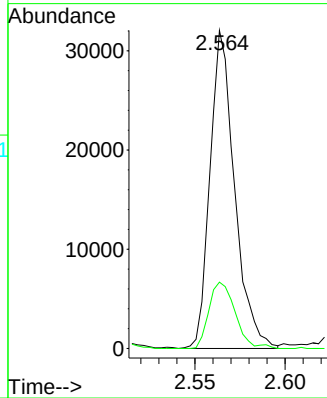
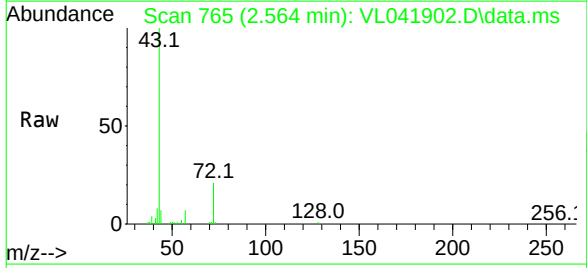
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2-Butanone
Concen: 1.215 ppbv
RT: 2.564 min Scan# 766
Delta R.T. -0.003 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 30406
Ion Ratio Lower Upper
43 100
72 22.3 18.6 28.0

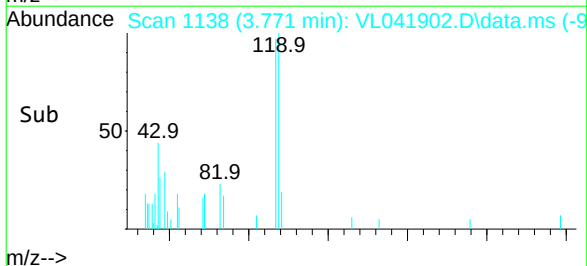
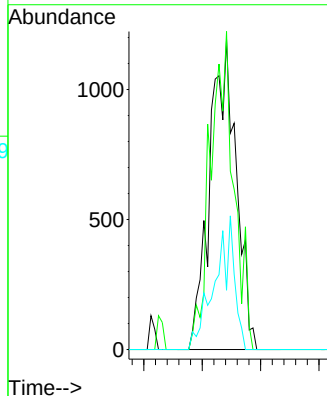
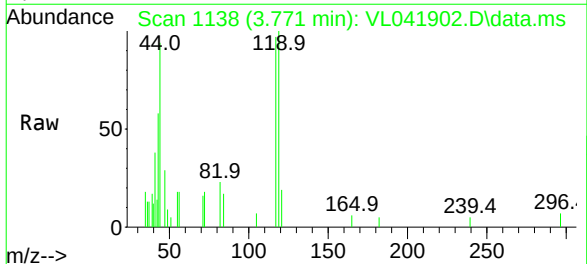
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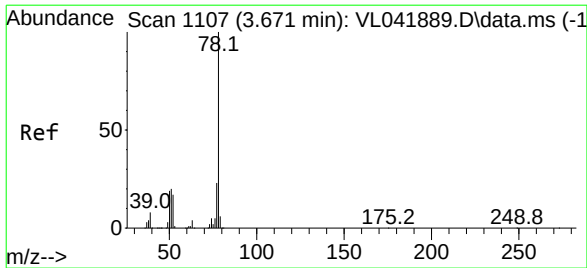
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 3.771 min Scan# 1138
Delta R.T. -0.006 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

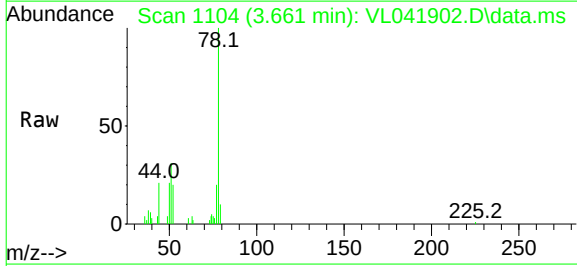
Tgt Ion:117 Resp: 1881
Ion Ratio Lower Upper
117 100
119 102.6 76.9 115.3
121 19.1 23.8 35.6#





#36
Benzene
Concen: 0.218 ppbv
RT: 3.661 min Scan# 1107
Delta R.T. -0.010 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

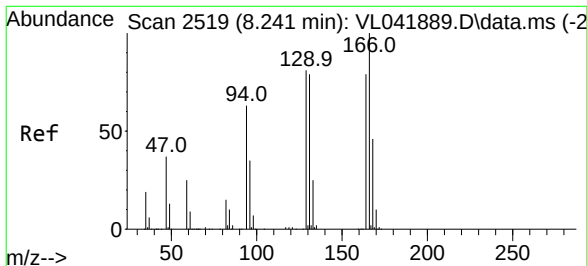
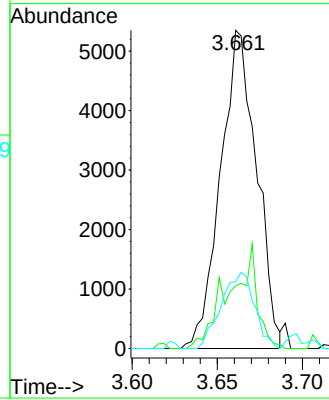
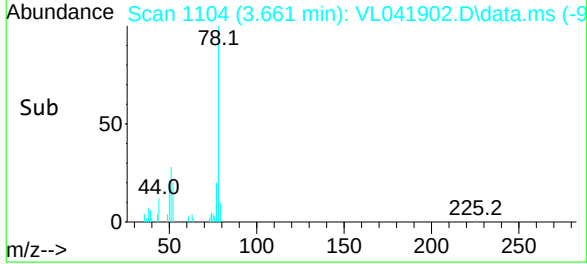
Instrument : MSVOA_L
ClientSampleId : IA1DUP



Tgt Ion: 78 Resp: 7859
Ion Ratio Lower Upper
78 100
77 19.7 18.1 27.1
50 21.0 15.2 22.8

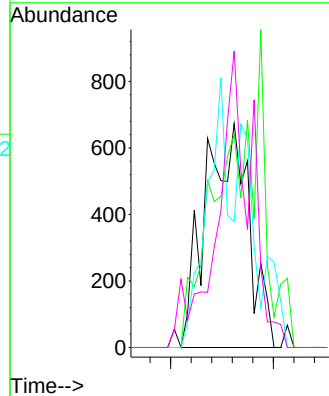
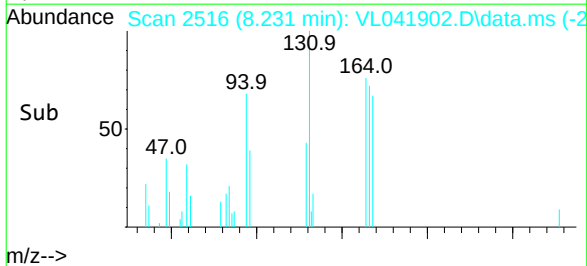
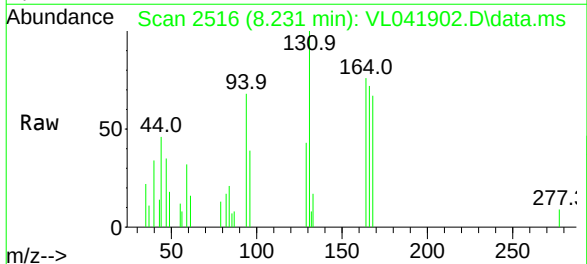
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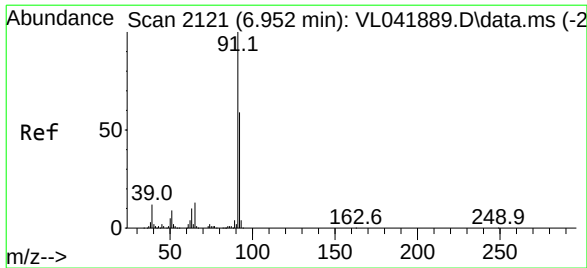
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#52
Tetrachloroethene
Concen: 0.079 ppbv m
RT: 8.231 min Scan# 2516
Delta R.T. -0.010 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Tgt Ion:164 Resp: 993
Ion Ratio Lower Upper
164 100
166 95.1 100.8 151.2#
129 56.3 82.0 123.0#
131 132.4 80.2 120.2#





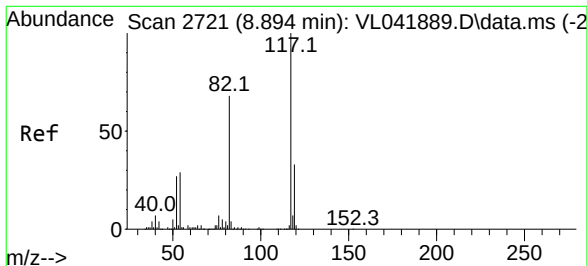
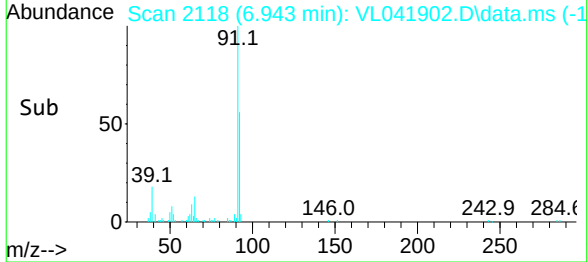
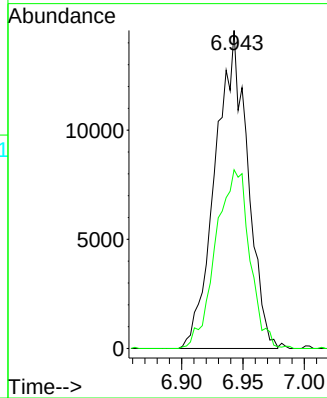
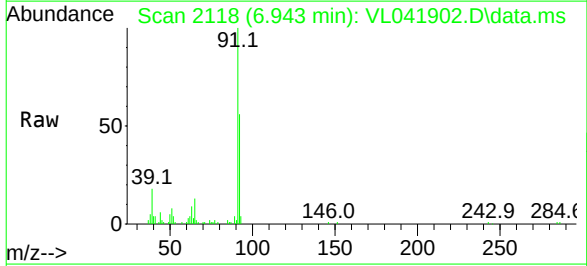
#53
Toluene
Concen: 0.681 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. -0.010 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 26752
Ion Ratio Lower Upper
91 100
92 59.1 47.4 71.0

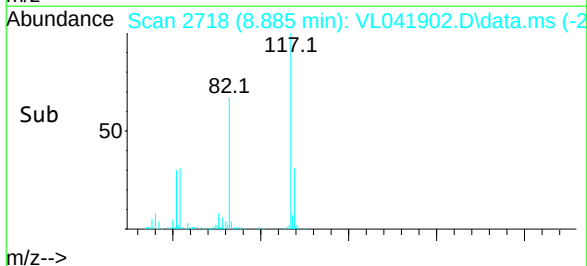
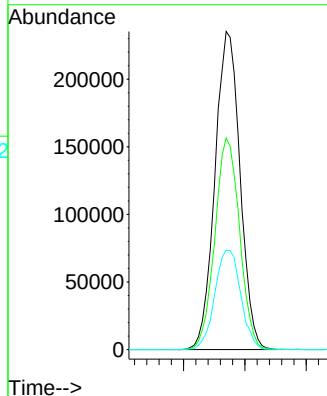
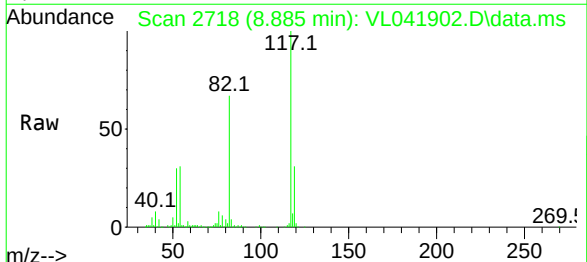
Manual Integrations
APPROVED

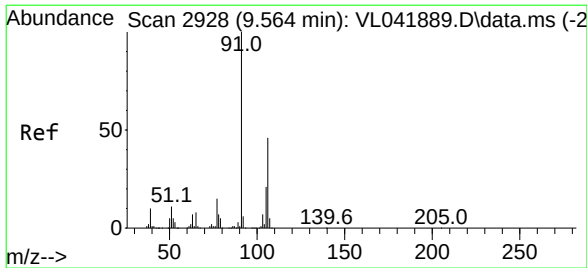
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.010 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Tgt Ion:117 Resp: 334705
Ion Ratio Lower Upper
117 100
82 65.4 54.2 81.4
119 32.3 25.0 37.6





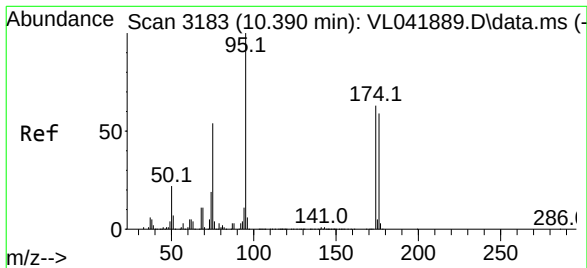
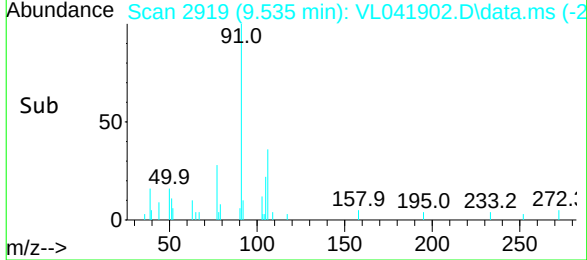
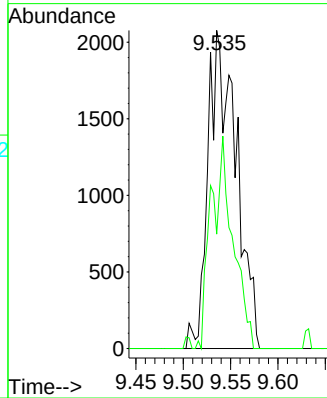
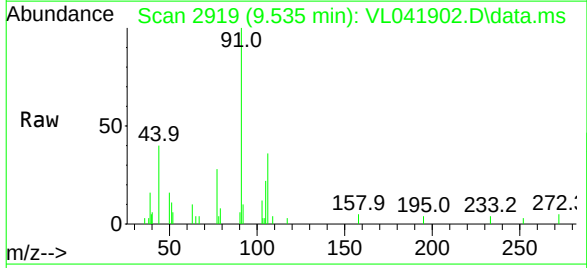
#59
m/p-Xylene
Concen: 0.102 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.029 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 4279
Ion Ratio Lower Upper
91 100
106 51.8 36.0 54.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.228 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.010 min
Lab File: VL041902.D
Acq: 14 Jan 2025 21:14

Tgt Ion: 95 Resp: 269632
Ion Ratio Lower Upper
95 100
174 59.6 49.0 73.4
175 4.3 3.8 5.8

