

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
 Data File : VL043006.D
 Acq On : 24 Sep 2025 12:44
 Operator : SY/MD
 Sample : Q3154-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: Sep 25 01:54:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

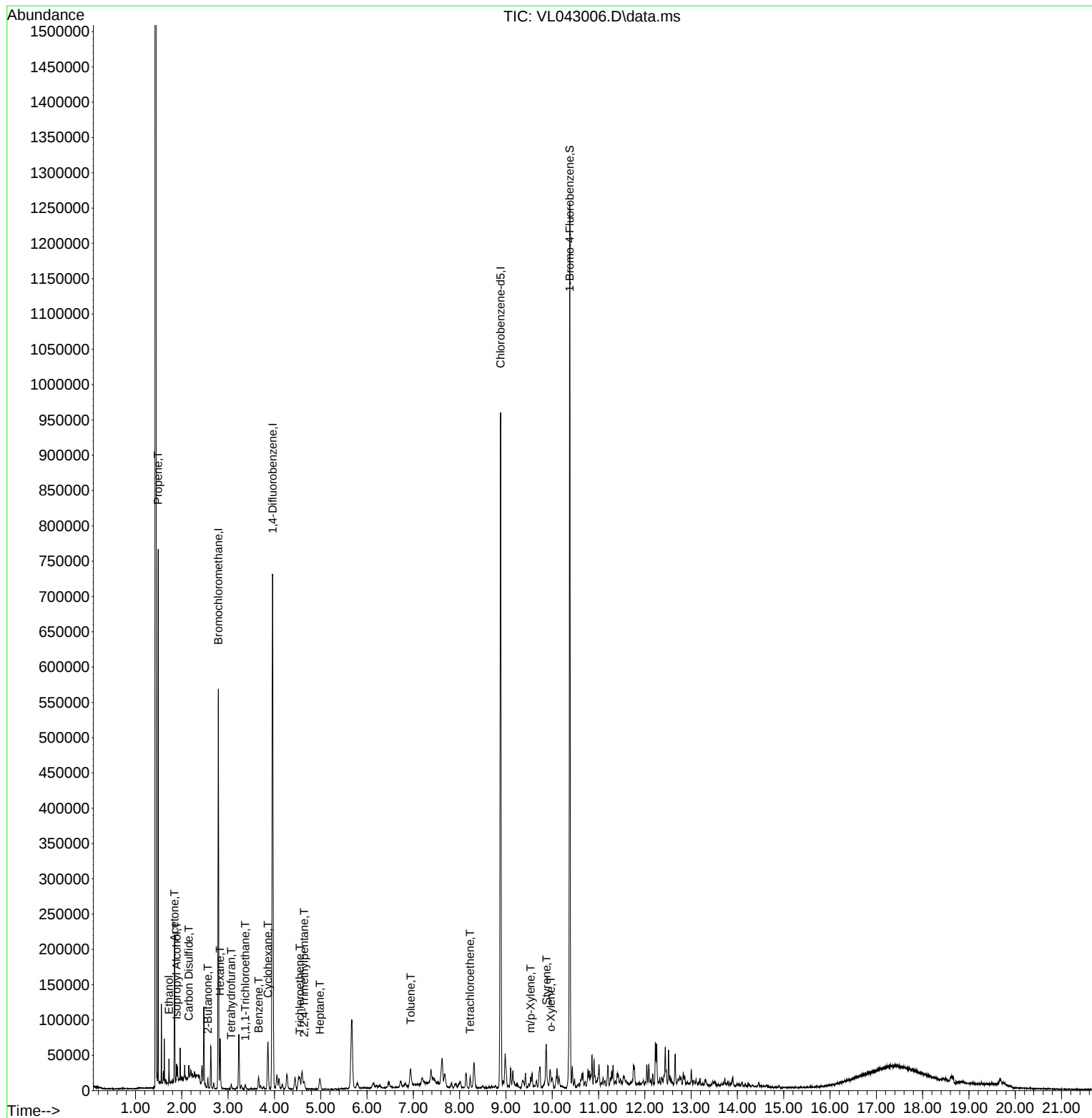
Internal Standards						
1) Bromochloromethane	2.790	49	152807	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	451220	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	405509	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	301546	9.962	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	61019m	5.476	ppbv	
10) Heptane	4.981	43	5763m	0.194	ppbv	
13) Ethanol	1.722	45	11321	10.472	ppbv #	35
15) Acetone	1.839	43	43076m	2.164	ppbv	
19) Isopropyl Alcohol	1.887	45	9187	0.768	ppbv #	1
26) Hexane	2.826	57	14121	0.616	ppbv #	38
27) Carbon Disulfide	2.152	76	7921	0.385	ppbv #	1
30) Cyclohexane	3.861	84	14319	0.747	ppbv #	92
32) 1,1,1-Trichloroethane	3.369	97	1918m	0.059	ppbv	
34) 2-Butanone	2.564	43	8873	0.281	ppbv	98
36) Benzene	3.661	78	11417	0.269	ppbv	96
38) Trichloroethene	4.548	130	3152	0.150	ppbv #	83
41) Tetrahydrofuran	3.068	42	2323	0.128	ppbv	97
44) 2,2,4-Trimethylpentane	4.641	57	7905m	0.108	ppbv	
52) Tetrachloroethene	8.224	164	2805m	0.171	ppbv	
53) Toluene	6.943	91	17061m	0.340	ppbv	
59) m/p-Xylene	9.535	91	9002m	0.171	ppbv	
60) o-Xylene	9.969	91	6031m	0.115	ppbv	
61) Styrene	9.875	104	14098	0.568	ppbv	96

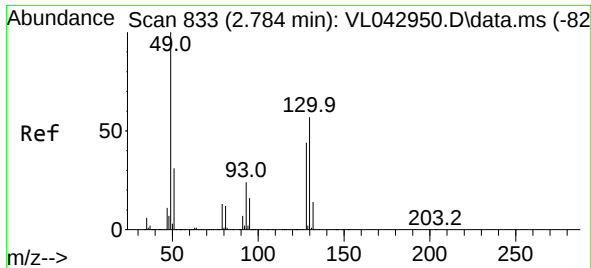
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
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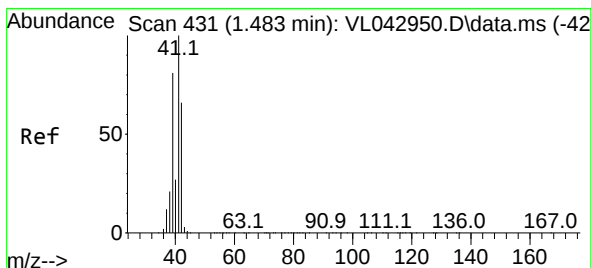
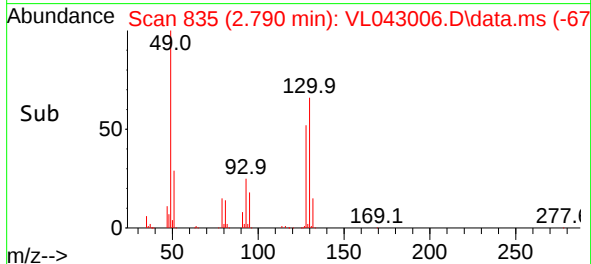
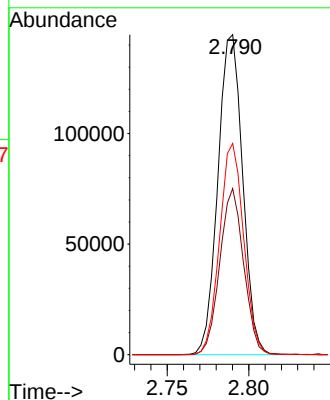
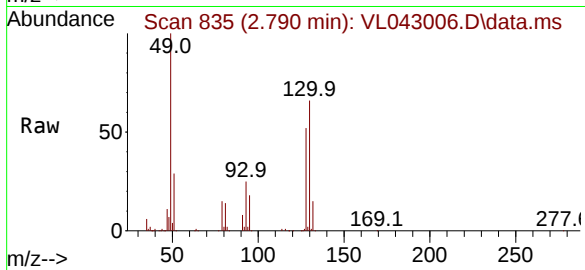




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

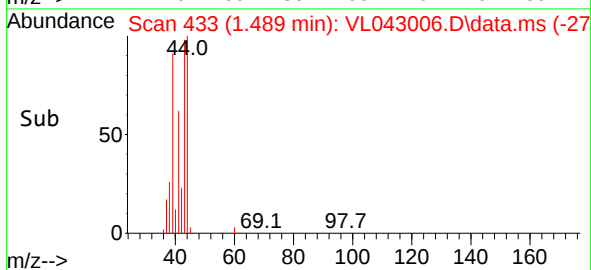
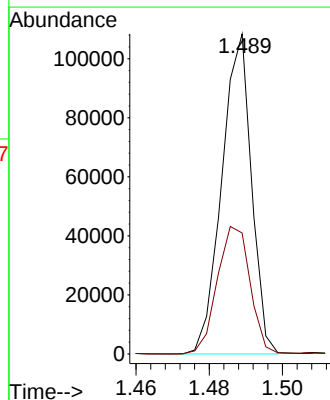
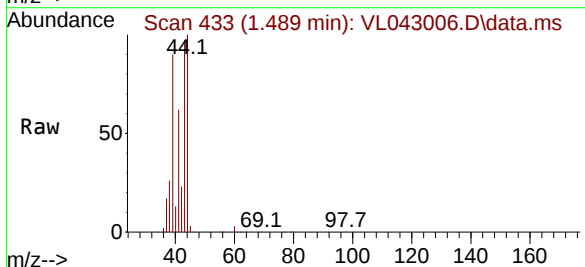
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

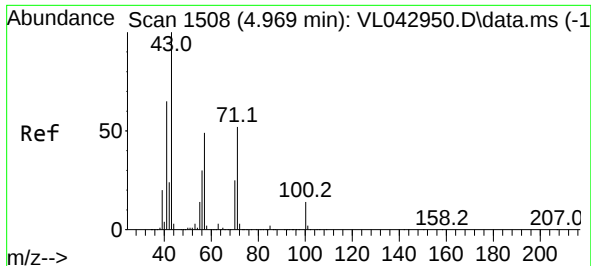
Tgt Ion: 49 Resp: 152807
Ion Ratio Lower Upper
49 100
128 50.1 22.9 68.8
130 64.3 29.1 87.3



#9
Propene
Concen: 5.476 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

Tgt Ion: 41 Resp: 61019
Ion Ratio Lower Upper
41 100
42 13.2 57.4 86.2#

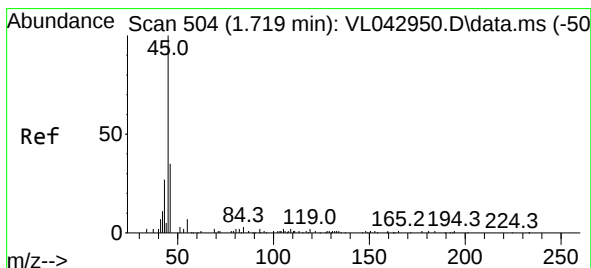
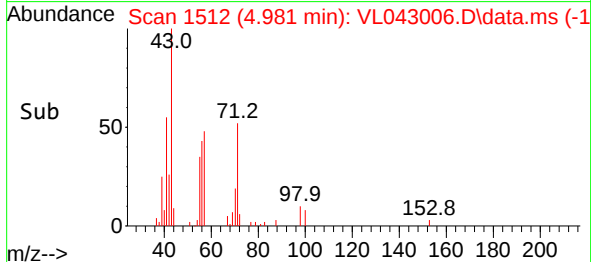
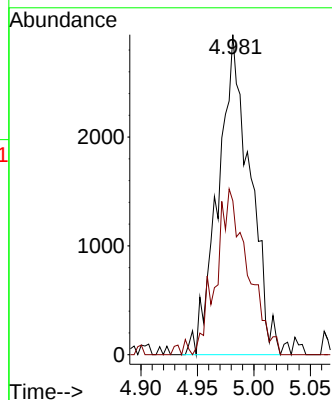
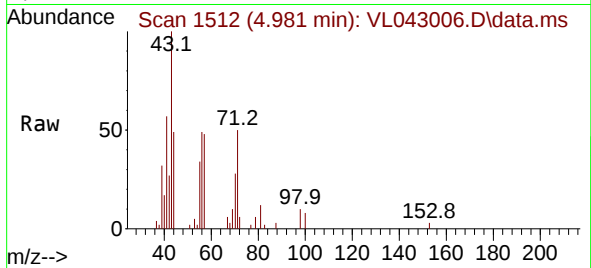




#10
Heptane
Concen: 0.194 ppbv m
RT: 4.981 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

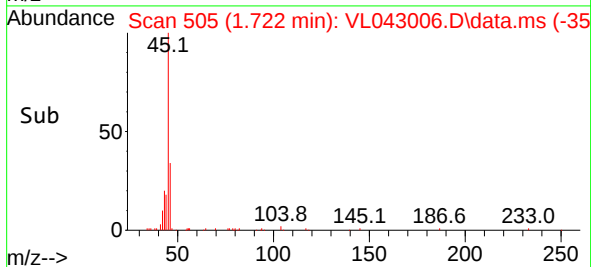
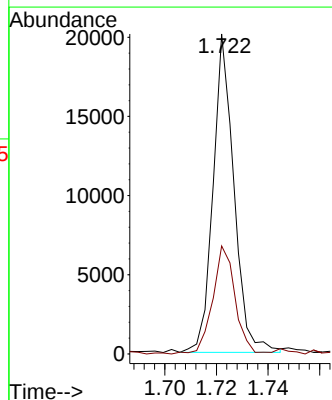
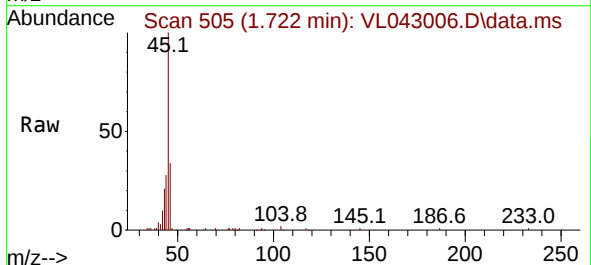
Instrument :
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ClientSampleId :
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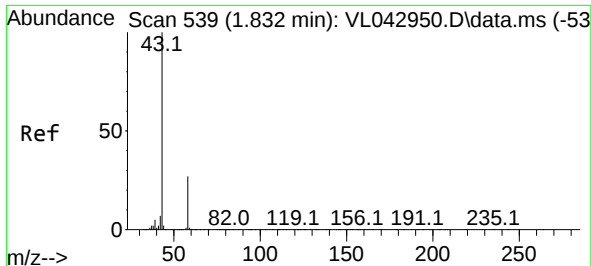
Tgt Ion: 43 Resp: 5763
Ion Ratio Lower Upper
43 100
57 52.4 38.6 57.8



#13
Ethanol
Concen: 10.472 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

Tgt Ion: 45 Resp: 11321
Ion Ratio Lower Upper
45 100
46 0.0 16.2 64.6#

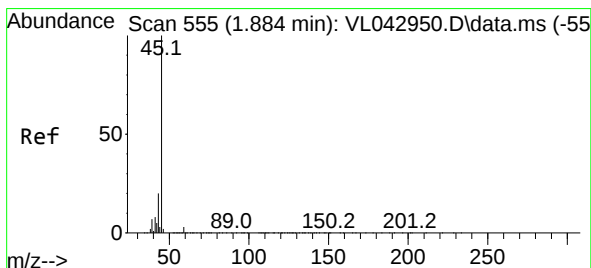
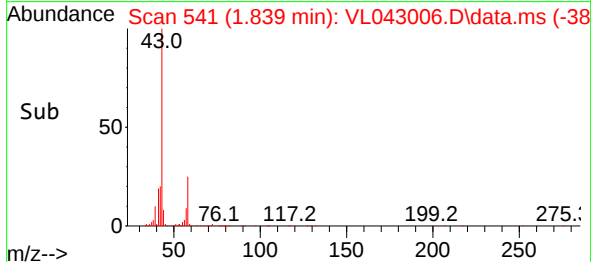
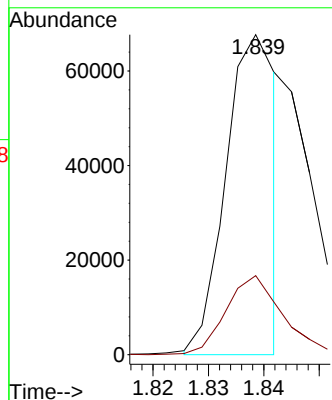
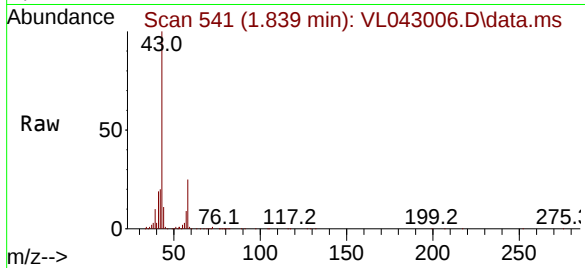




#15
Acetone
Concen: 2.164 ppbv m
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

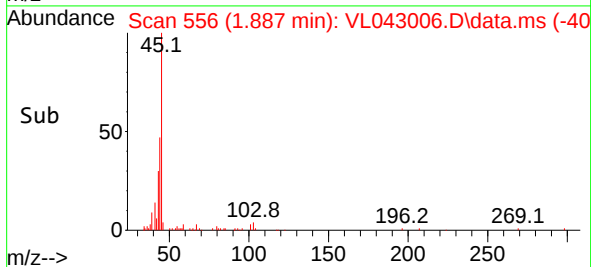
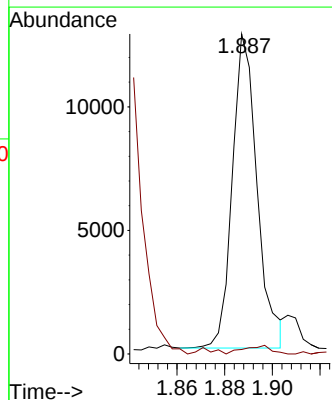
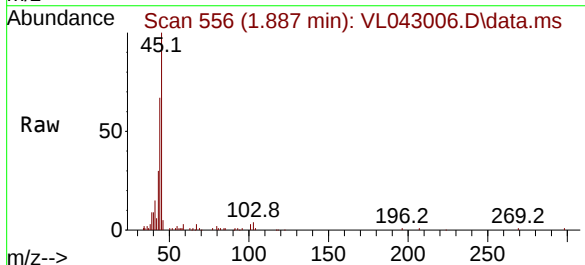
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

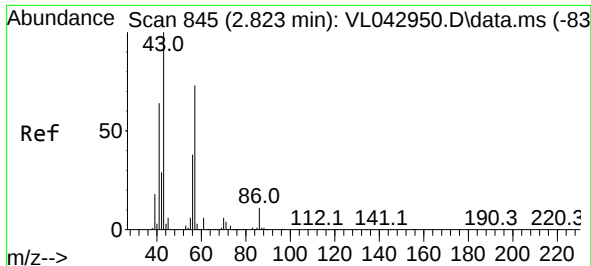
Tgt Ion: 43 Resp: 43076
Ion Ratio Lower Upper
43 100
58 28.3 22.3 33.5



#19
Isopropyl Alcohol
Concen: 0.768 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

Tgt Ion: 45 Resp: 9187
Ion Ratio Lower Upper
45 100
58 133.4 31.0 46.6#

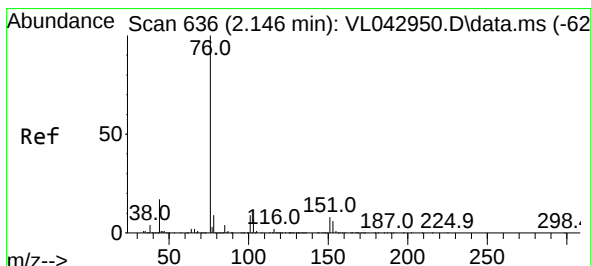
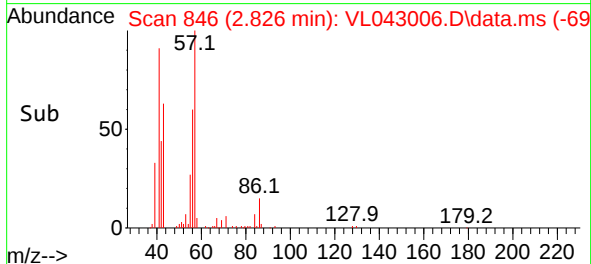
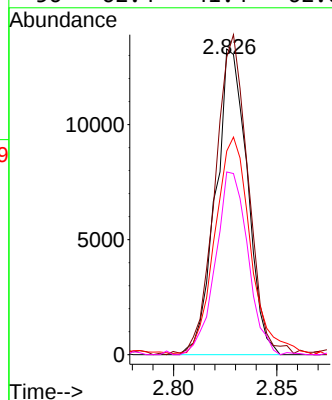
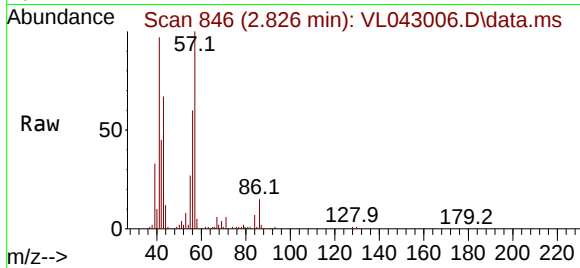




#26
Hexane
Concen: 0.616 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

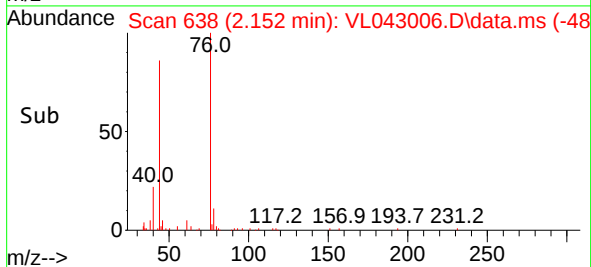
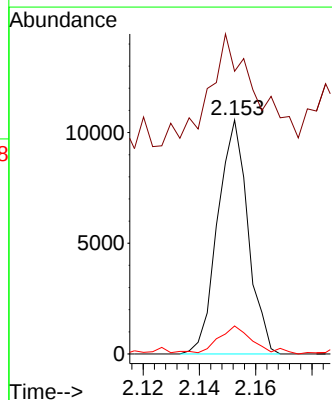
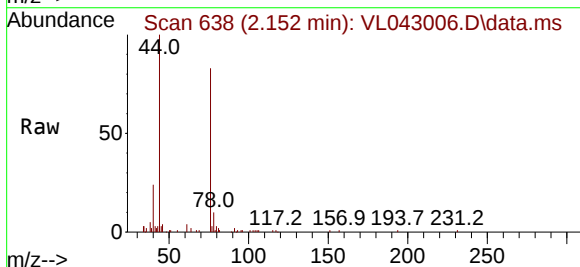
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

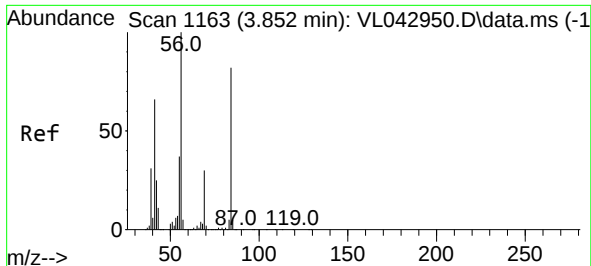
Tgt Ion: 57 Resp: 14121
Ion Ratio Lower Upper
57 100
41 108.4 71.7 107.5#
43 78.7 180.8 271.2#
56 62.4 41.4 62.0#



#27
Carbon Disulfide
Concen: 0.385 ppbv
RT: 2.152 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

Tgt Ion: 76 Resp: 7921
Ion Ratio Lower Upper
76 100
44 375.5 15.6 23.4#
78 15.7 8.9 13.3#

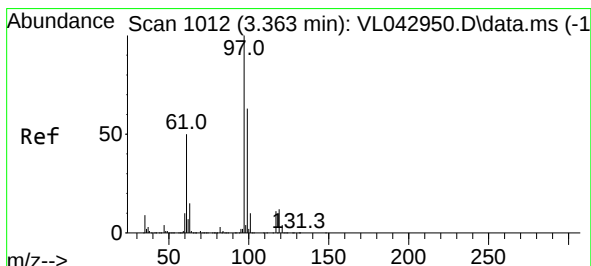
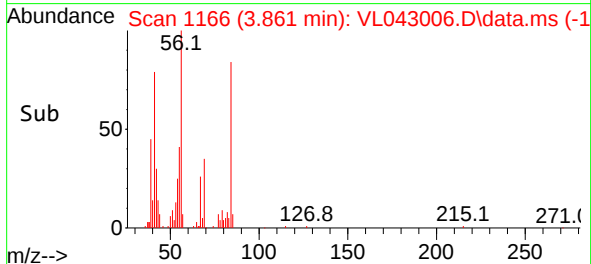
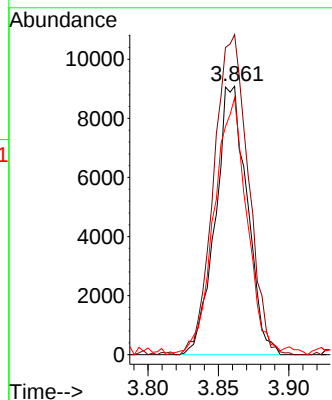
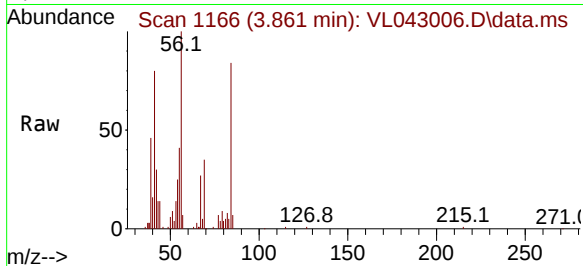




#30
Cyclohexane
Concen: 0.747 ppbv
RT: 3.861 min Scan# 1166
Delta R.T. 0.010 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

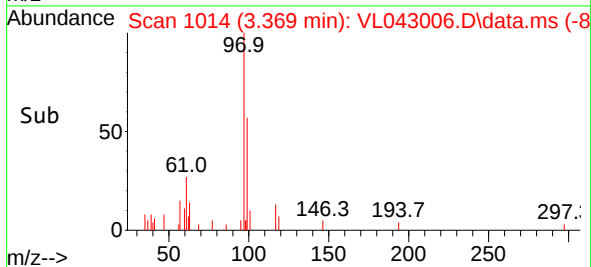
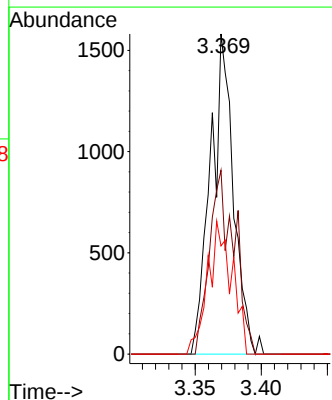
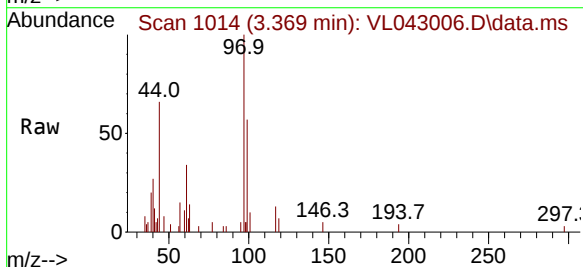
Instrument :
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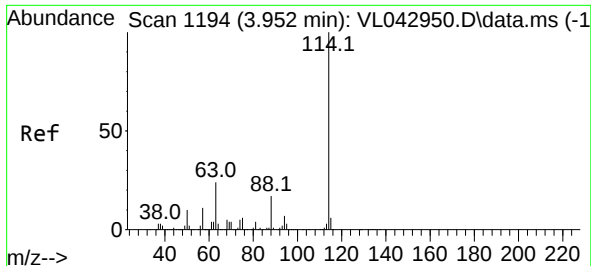
Tgt Ion: 84 Resp: 14319
Ion Ratio Lower Upper
84 100
56 129.0 102.2 153.4
41 99.2 65.6 98.4#



#32
1,1,1-Trichloroethane
Concen: 0.059 ppbv m
RT: 3.369 min Scan# 1014
Delta R.T. 0.006 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

Tgt Ion: 97 Resp: 1918
Ion Ratio Lower Upper
97 100
99 62.2 51.1 76.7
61 43.5 39.8 59.6

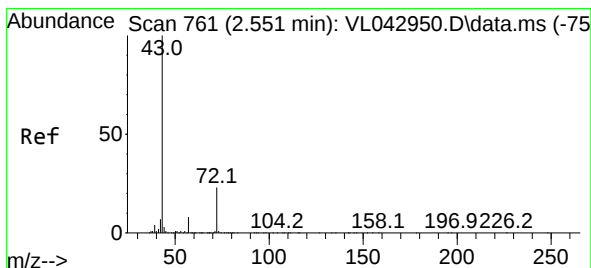
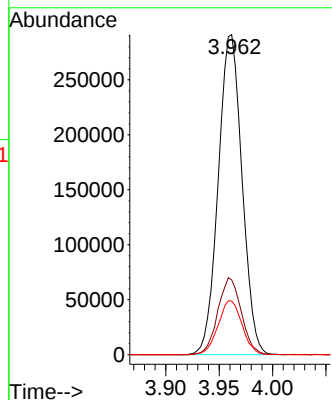
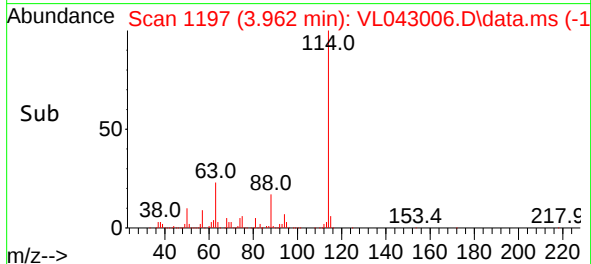
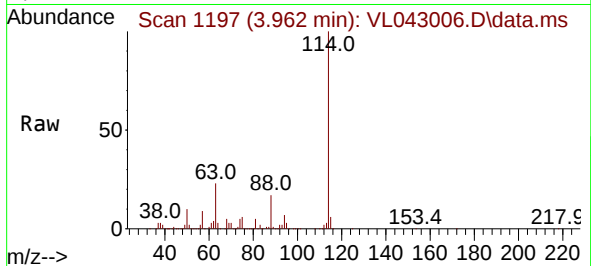




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.010 min
 Lab File: VL043006.D
 Acq: 24 Sep 2025 12:44

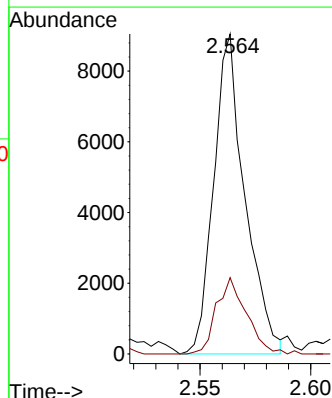
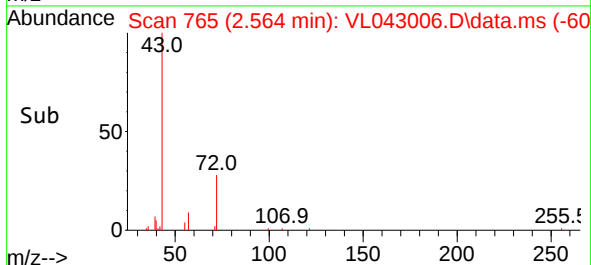
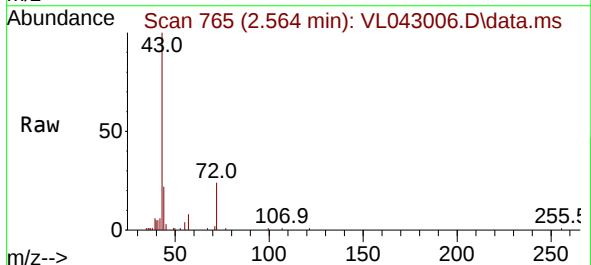
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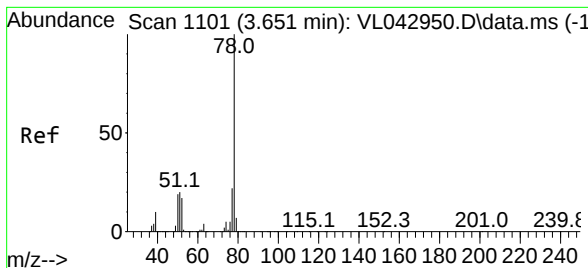
Tgt Ion:114 Resp: 451220
 Ion Ratio Lower Upper
 114 100
 63 23.8 19.4 29.2
 88 17.0 14.2 21.2



#34
 2-Butanone
 Concen: 0.281 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. 0.013 min
 Lab File: VL043006.D
 Acq: 24 Sep 2025 12:44

Tgt Ion: 43 Resp: 8873
 Ion Ratio Lower Upper
 43 100
 72 23.0 17.7 26.5





#36

Benzene

Concen: 0.269 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.010 min

Lab File: VL043006.D

Acq: 24 Sep 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

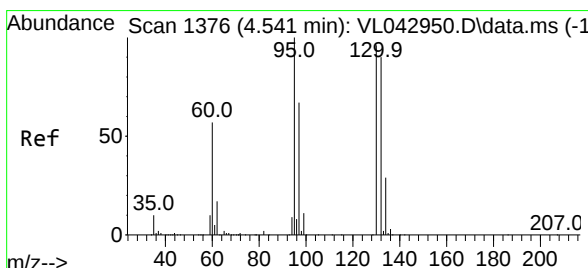
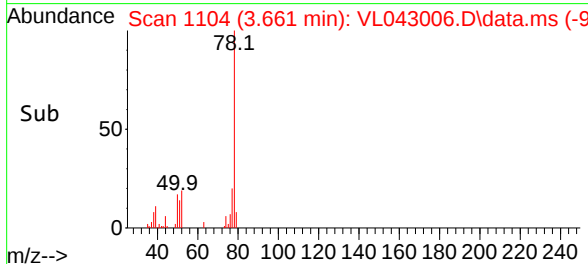
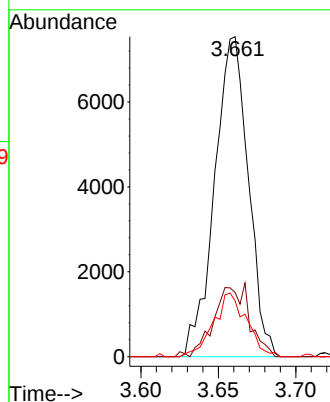
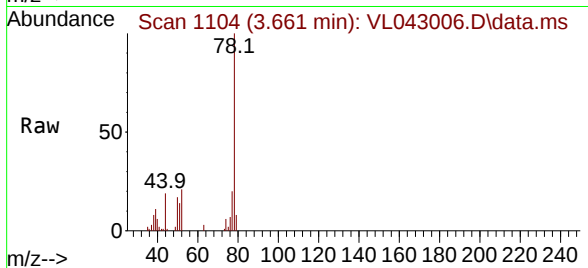
Tgt Ion: 78 Resp: 11417

Ion Ratio Lower Upper

78 100

77 20.0 17.8 26.6

50 17.4 15.0 22.4



#38

Trichloroethene

Concen: 0.150 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.006 min

Lab File: VL043006.D

Acq: 24 Sep 2025 12:44

Tgt Ion:130 Resp: 3152

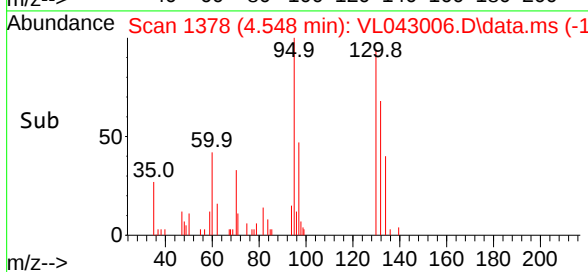
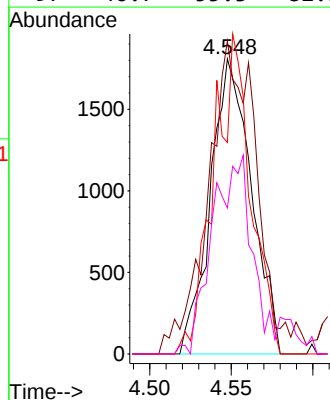
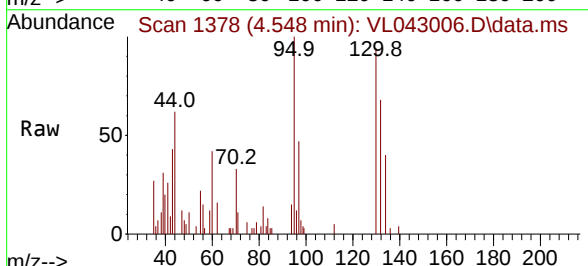
Ion Ratio Lower Upper

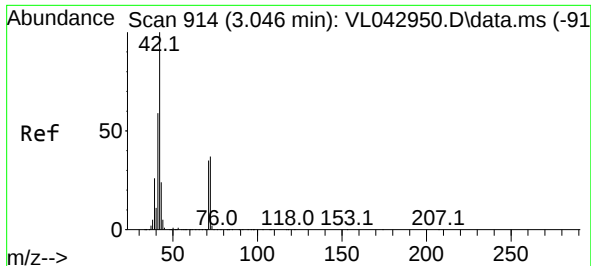
130 100

95 97.7 83.0 124.4

132 71.7 74.6 112.0#

97 46.7 55.3 82.9#





#41

Tetrahydrofuran

Concen: 0.128 ppbv

RT: 3.068 min Scan# 91

Delta R.T. 0.022 min

Lab File: VL043006.D

Acq: 24 Sep 2025 12:44

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

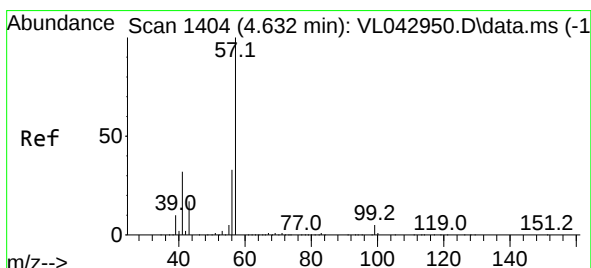
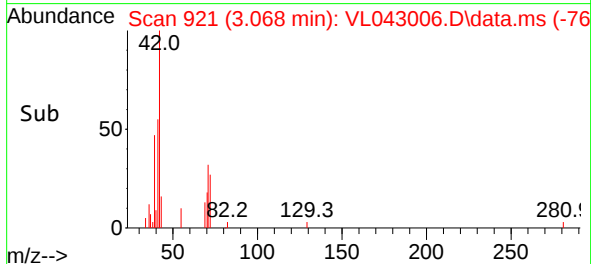
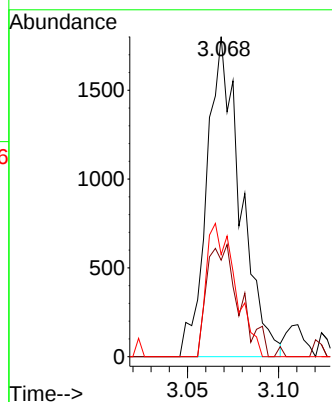
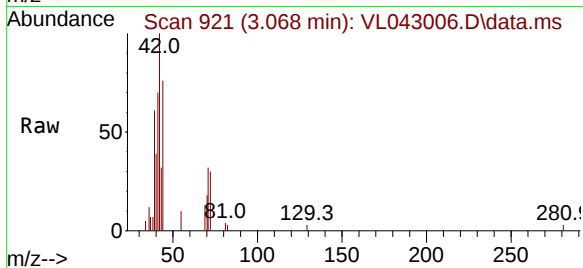
Tgt Ion: 42 Resp: 2323

Ion Ratio Lower Upper

42 100

72 34.1 30.0 45.0

71 35.6 28.8 43.2



#44

2,2,4-Trimethylpentane

Concen: 0.108 ppbv m

RT: 4.641 min Scan# 1407

Delta R.T. 0.010 min

Lab File: VL043006.D

Acq: 24 Sep 2025 12:44

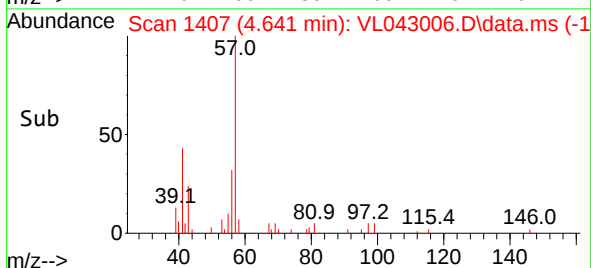
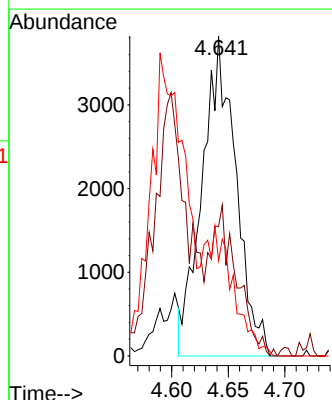
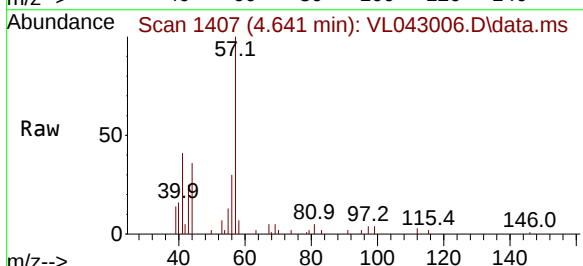
Tgt Ion: 57 Resp: 7905

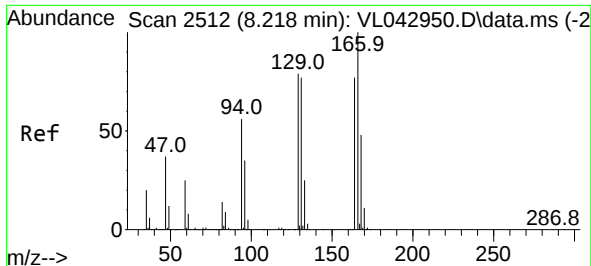
Ion Ratio Lower Upper

57 100

41 37.4 25.5 38.3

56 0.0 25.8 38.8#

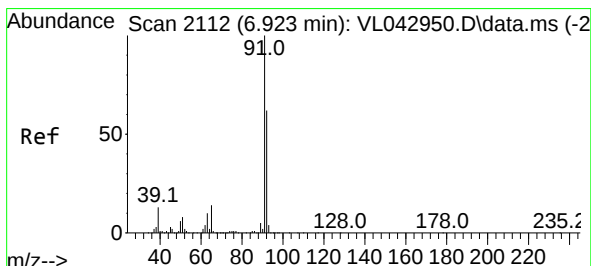
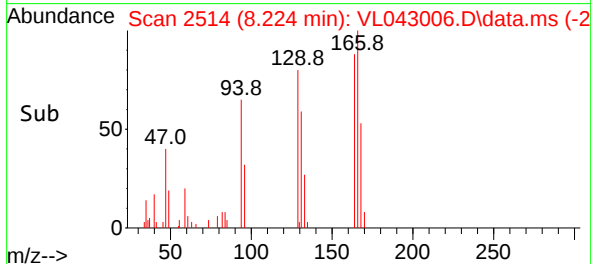
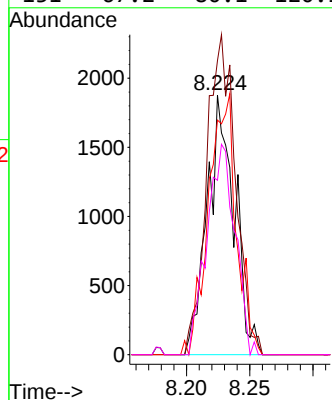
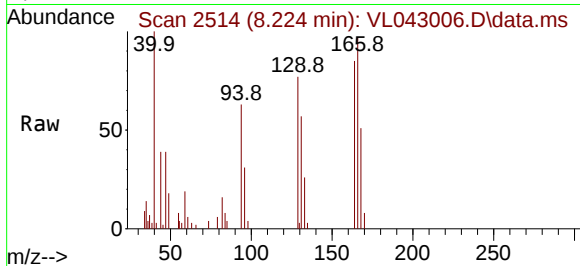




#52
Tetrachloroethene
Concen: 0.171 ppbv m
RT: 8.224 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

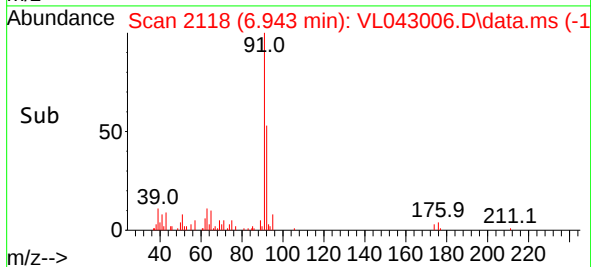
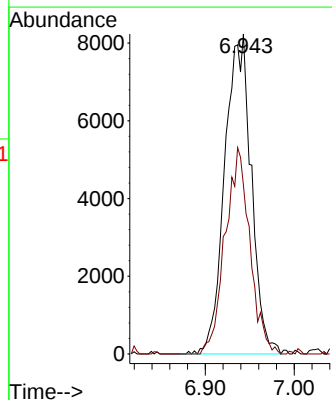
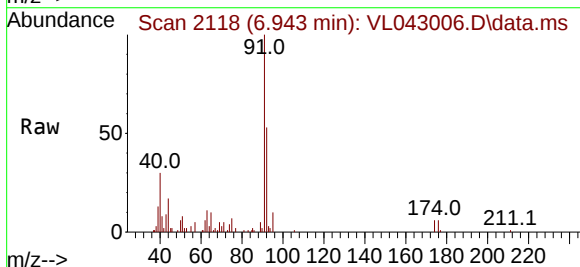
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

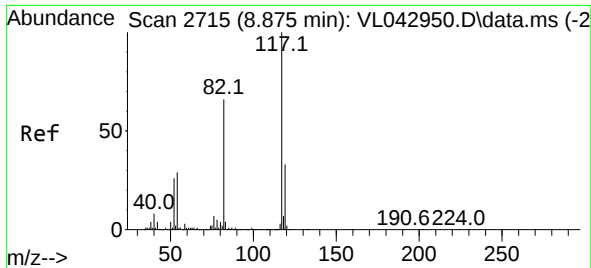
Tgt Ion:164 Resp: 2805
Ion Ratio Lower Upper
164 100
166 113.3 103.5 155.3
129 90.4 82.2 123.4
131 67.2 80.1 120.1#



#53
Toluene
Concen: 0.340 ppbv m
RT: 6.943 min Scan# 2118
Delta R.T. 0.019 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

Tgt Ion: 91 Resp: 17061
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.2#

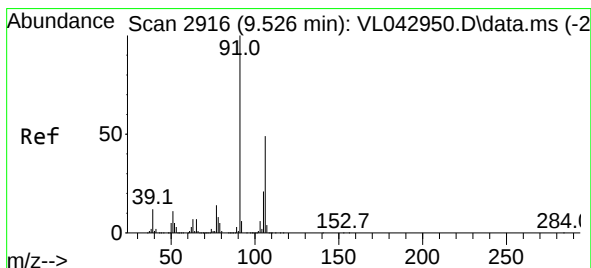
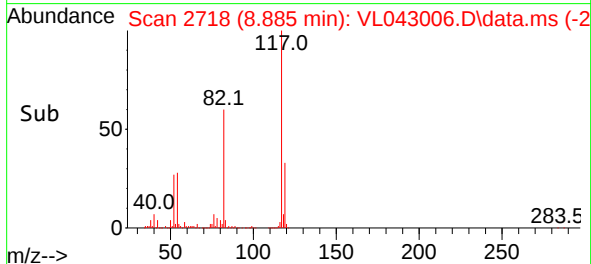
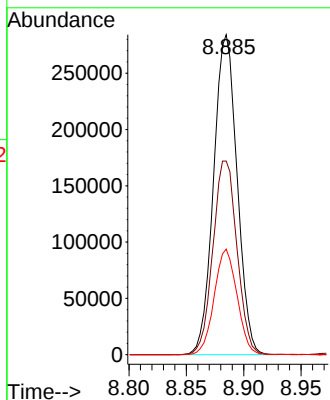
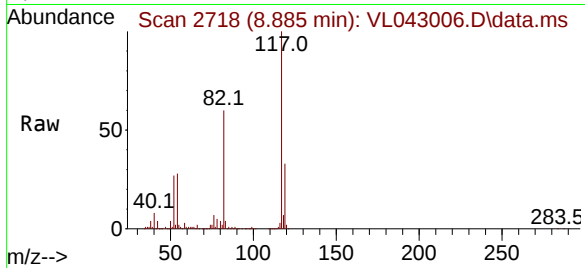




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

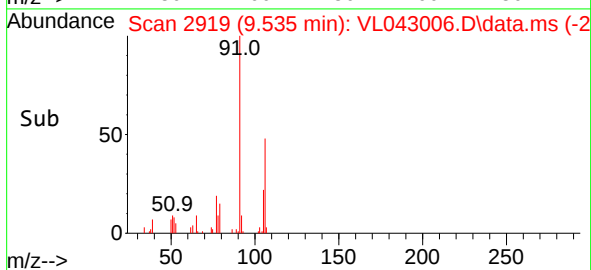
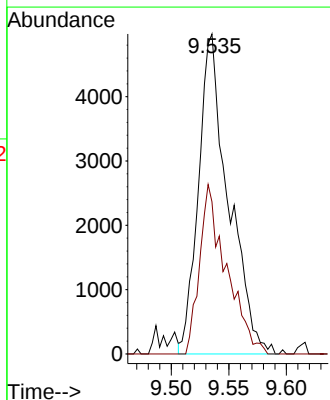
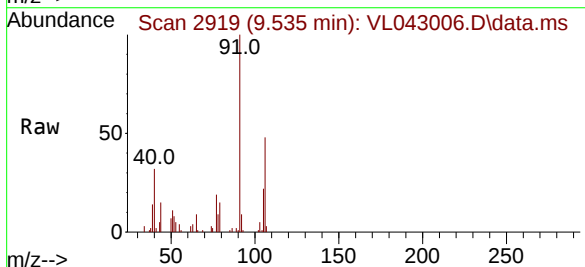
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

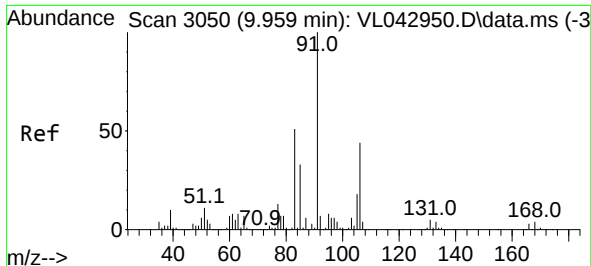
Tgt Ion:117 Resp: 405509
Ion Ratio Lower Upper
117 100
82 61.9 52.8 79.2
119 32.1 26.5 39.7



#59
m/p-Xylene
Concen: 0.171 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. 0.010 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

Tgt Ion: 91 Resp: 9002
Ion Ratio Lower Upper
91 100
106 47.3 0.0 0.0#

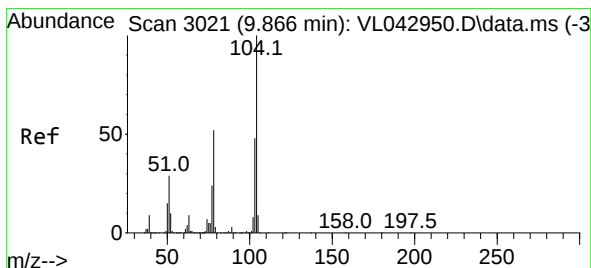
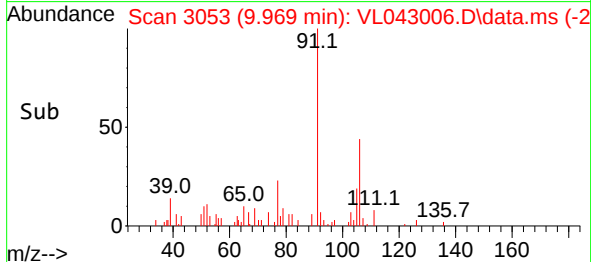
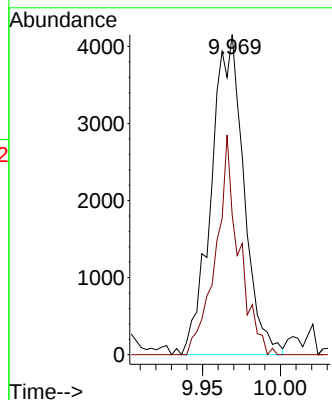
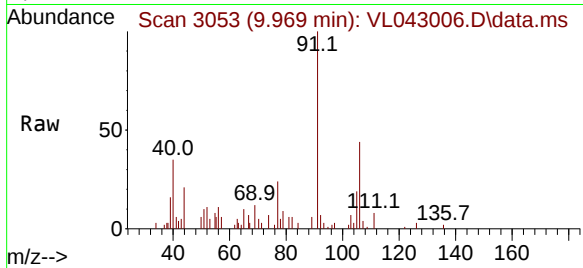




#60
o-Xylene
Concen: 0.115 ppbv m
RT: 9.969 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

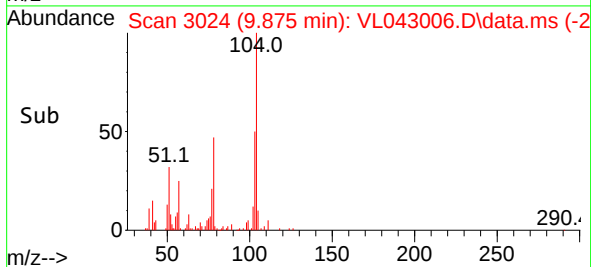
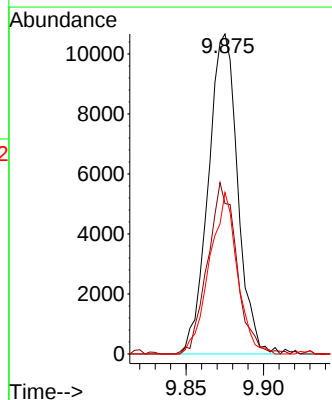
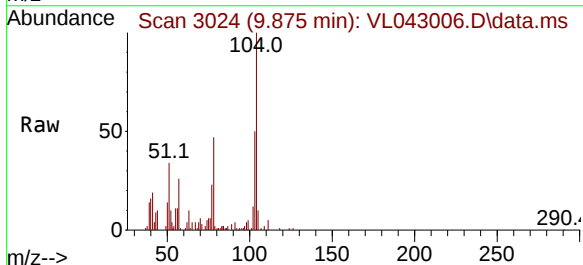
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

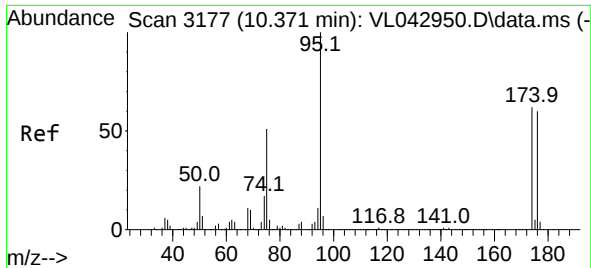
Tgt Ion: 91 Resp: 6031
Ion Ratio Lower Upper
91 100
106 70.6 22.4 67.0#



#61
Styrene
Concen: 0.568 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.010 min
Lab File: VL043006.D
Acq: 24 Sep 2025 12:44

Tgt Ion: 104 Resp: 14098
Ion Ratio Lower Upper
104 100
78 53.2 39.9 59.9
103 47.7 36.9 55.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.962 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.006 min
 Lab File: VL043006.D
 Acq: 24 Sep 2025 12:44

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tgt Ion: 95 Resp: 301546

Ion	Ratio	Lower	Upper
95	100		
174	73.6	51.4	77.2
175	5.5	4.0	6.0

