

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087358.D
 Acq On : 18 Jul 2025 12:12
 Operator : JC\MD
 Sample : Q2630-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave (JUNE)

Quant Time: Jul 18 23:17:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

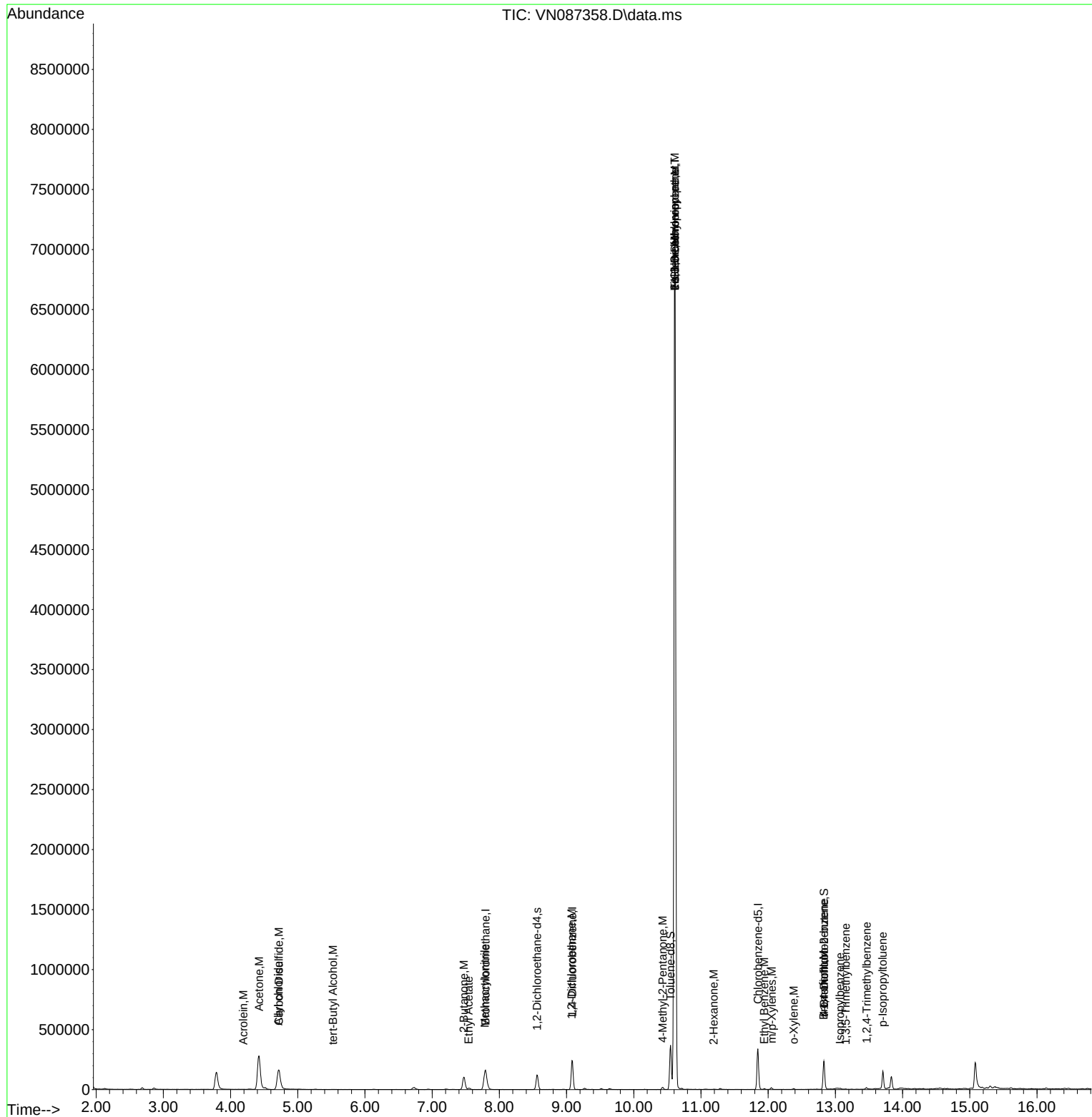
Internal Standards						
1) Bromochloromethane	7.794	128	40595	30.000	ug/l	-0.03
28) 1,4-Difluorobenzene	9.088	114	208925	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	187807	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	101637	33.229	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	= 110.767%#	
60) 4-Bromofluorobenzene	12.829	95	84672	29.217	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.400%	
63) Toluene-d8	10.547	98	247701	29.375	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	= 97.900%	
Target Compounds						Qvalue
13) Acrolein	4.189	56	336	0.567	ug/l #	15
15) Acetone	4.424	58	166491	317.234	ug/l	75
16) Carbon Disulfide	4.718	76	9279	1.291	ug/l #	92
17) Allyl chloride	4.712	41	15991	3.943	ug/l	84
23) tert-Butyl Alcohol	5.524	59	255	0.377	ug/l #	100
30) 2-Butanone	7.471	43	176094	80.166	ug/l #	94
35) Methacrylonitrile	7.782	41	7909	3.573	ug/l #	46
36) 1,2-Dichloroethane	9.076	62	4118	1.235	ug/l #	75
43) Ethyl Acetate	7.541	43	16138	4.070	ug/l	97
48) t-1,3-Dichloropropene	10.612	75	38570	9.735	ug/l #	1
49) cis-1,3-Dichloropropene	10.612	75	38570	9.158	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.612	63	486416	222.922	ug/l #	1
56) Bromoform	12.823	173	1042	0.577	ug/l #	1
58) 4-Methyl-2-Pentanone	10.429	43	14161	3.751	ug/l	90
59) 2-Hexanone	11.188	43	1024	0.420	ug/l #	74
62) Toluene	10.612	91	5405378	509.603	ug/l	98
66) Ethyl Benzene	11.941	91	4899	0.422	ug/l	89
67) m/p-Xylenes	12.053	106	4169	0.937	ug/l	87
68) o-Xylene	12.382	106	1997	0.470	ug/l	92
70) Isopropylbenzene	13.070	105	3013	0.285	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	1888	0.219	ug/l	79
77) t-1,4-Dichloro-2-butene	12.829	75	44480	30.561	ug/l #	13
80) 1,2,4-Trimethylbenzene	13.464	105	6012	0.696	ug/l	97
82) p-Isopropyltoluene	13.706	119	79671	9.104	ug/l	97

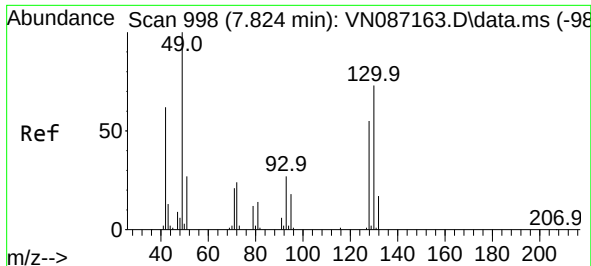
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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002 35th Ave (JUNE)

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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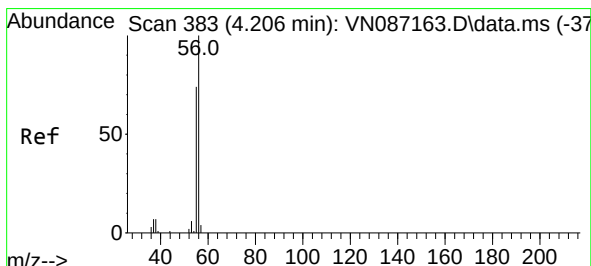
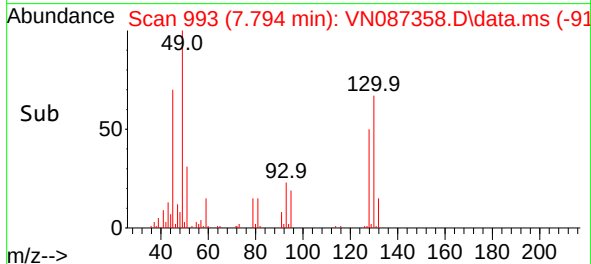
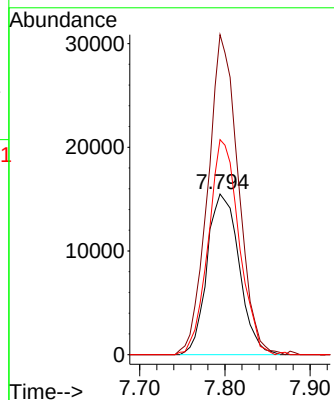
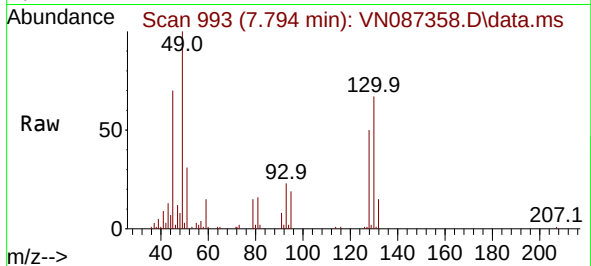




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 91
Delta R.T. -0.030 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

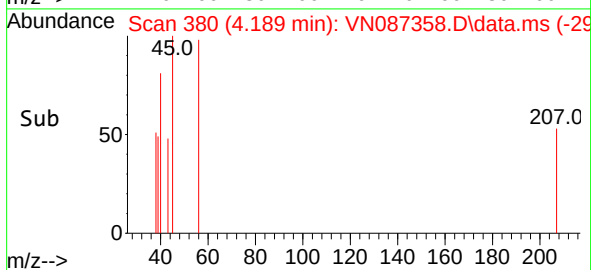
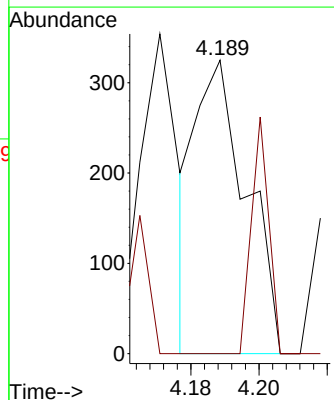
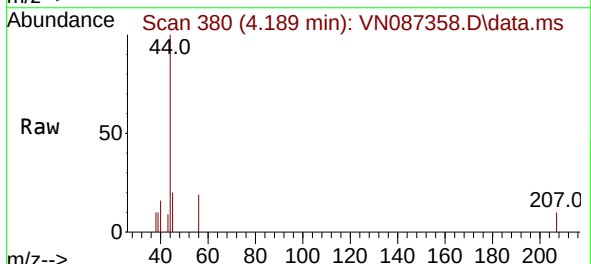
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

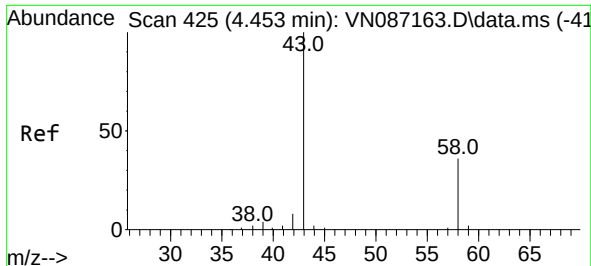
Tgt Ion:128 Resp: 40595
Ion Ratio Lower Upper
128 100
49 188.6 0.0 450.5
130 128.3 0.0 320.7



#13
Acrolein
Concen: 0.567 ug/l
RT: 4.189 min Scan# 380
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Tgt Ion: 56 Resp: 336
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#





#15

Acetone

Concen: 317.234 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.030 min

Lab File: VN087358.D

Acq: 18 Jul 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

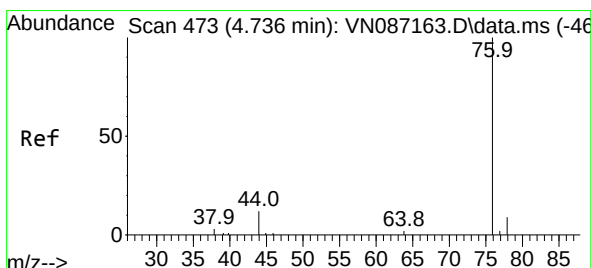
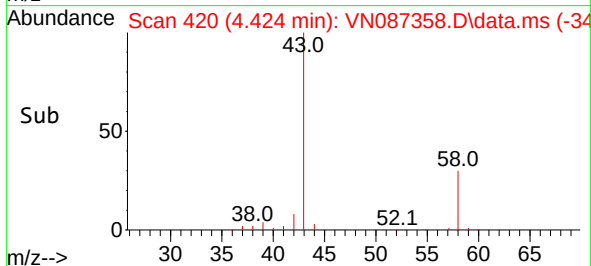
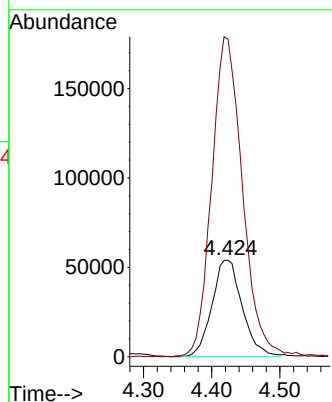
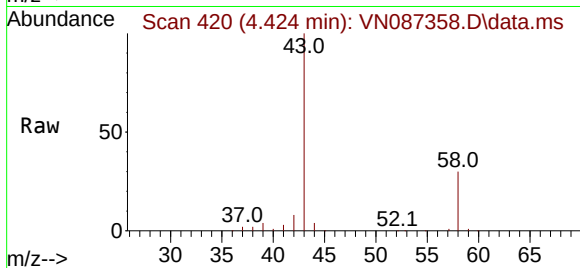
002 35th Ave (JUNE)

Tgt Ion: 58 Resp: 166491

Ion Ratio Lower Upper

58 100

43 328.0 224.3 336.5



#16

Carbon Disulfide

Concen: 1.291 ug/l

RT: 4.718 min Scan# 470

Delta R.T. -0.018 min

Lab File: VN087358.D

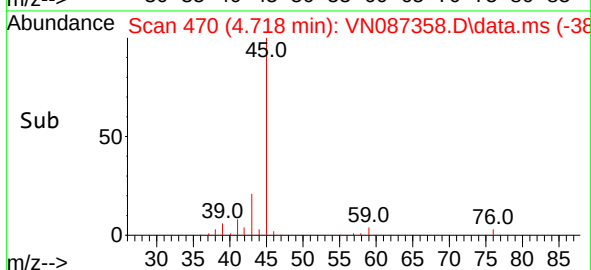
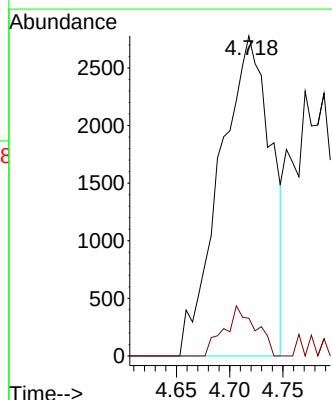
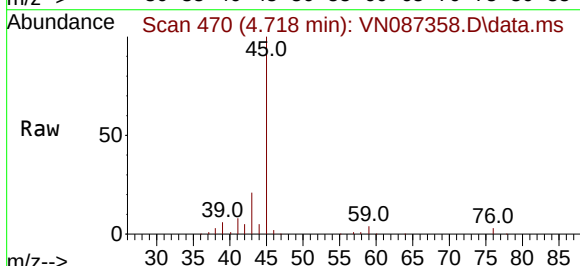
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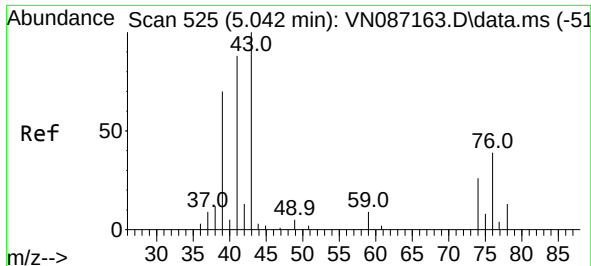
Tgt Ion: 76 Resp: 9279

Ion Ratio Lower Upper

76 100

78 11.8 7.2 10.8#





#17

Allyl chloride

Concen: 3.943 ug/l

RT: 4.712 min Scan# 41

Delta R.T. -0.330 min

Lab File: VN087358.D

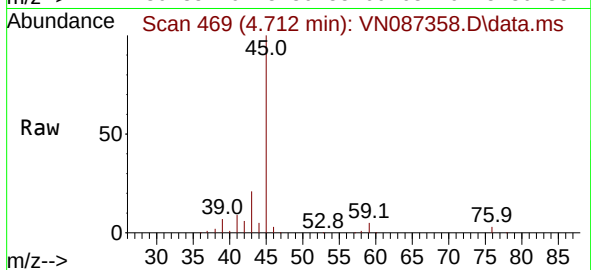
Acq: 18 Jul 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave (JUNE)



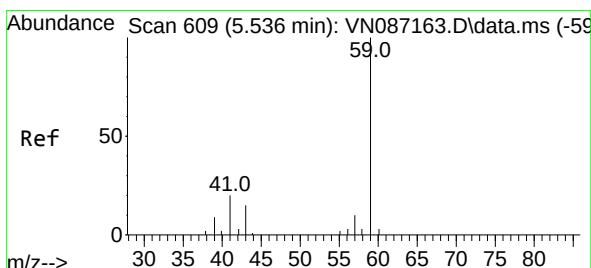
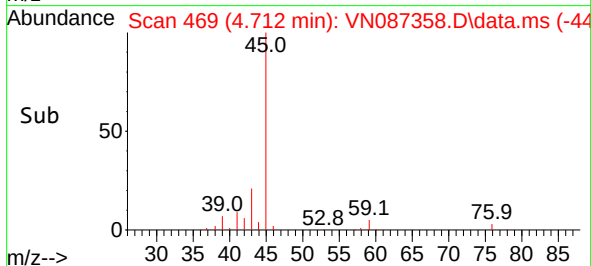
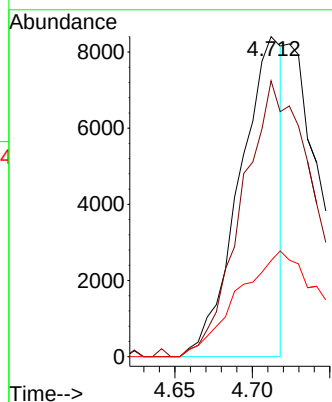
Tgt Ion: 41 Resp: 15991

Ion Ratio Lower Upper

41 100

39 86.2 36.0 108.0

76 30.0 19.5 58.5



#23

tert-Butyl Alcohol

Concen: 0.377 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.012 min

Lab File: VN087358.D

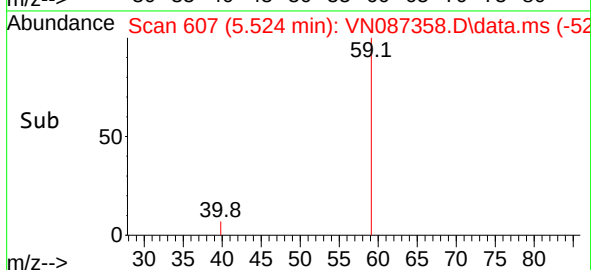
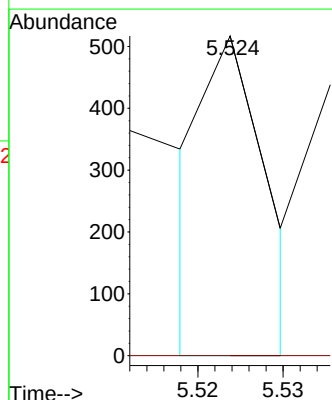
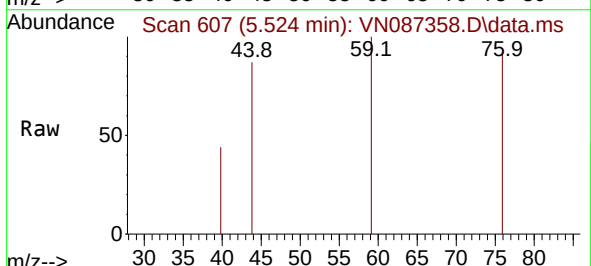
Acq: 18 Jul 2025 12:12

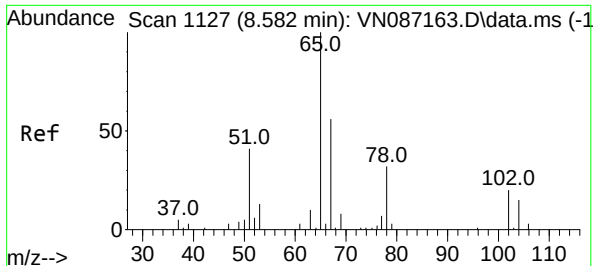
Tgt Ion: 59 Resp: 255

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

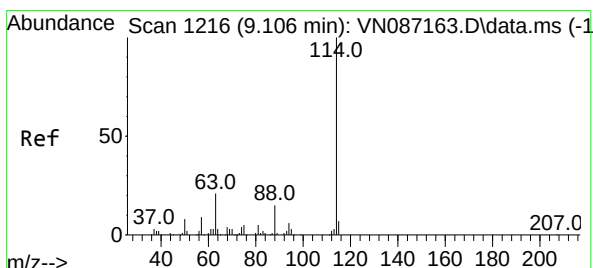
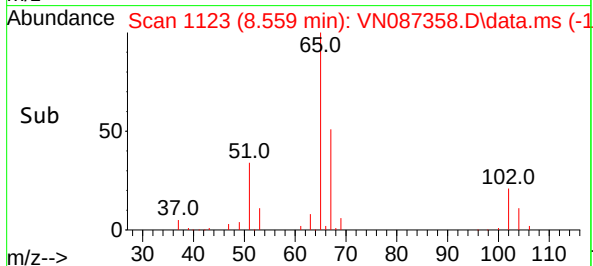
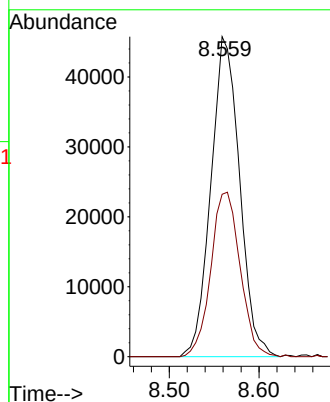
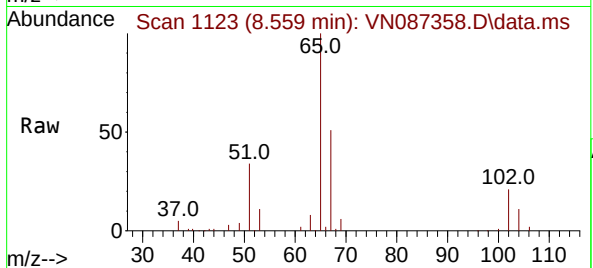




#27
 1,2-Dichloroethane-d4
 Concen: 33.229 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. -0.024 min
 Lab File: VN087358.D
 Acq: 18 Jul 2025 12:12

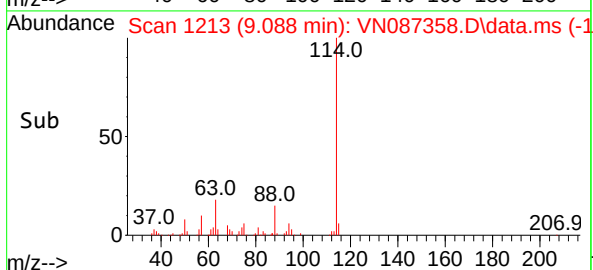
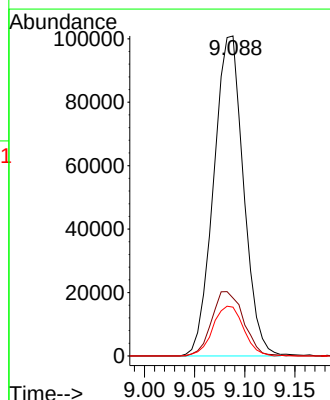
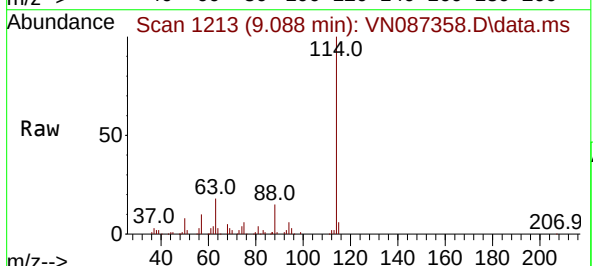
Instrument :
 MSVOA_N
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 002 35th Ave (JUNE)

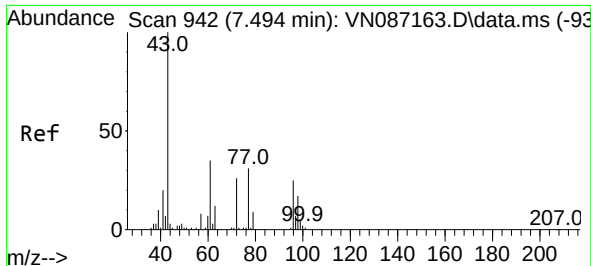
Tgt Ion: 65 Resp: 101637
 Ion Ratio Lower Upper
 65 100
 67 52.4 41.9 62.9



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.088 min Scan# 1213
 Delta R.T. -0.018 min
 Lab File: VN087358.D
 Acq: 18 Jul 2025 12:12

Tgt Ion: 114 Resp: 208925
 Ion Ratio Lower Upper
 114 100
 63 21.4 17.0 25.4
 88 16.0 12.6 19.0

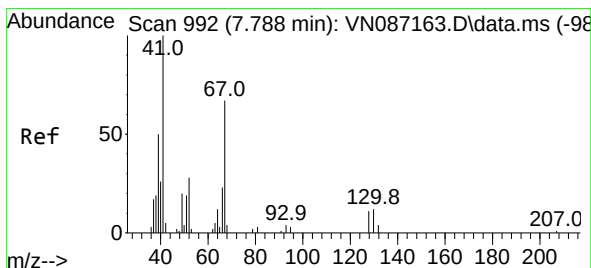
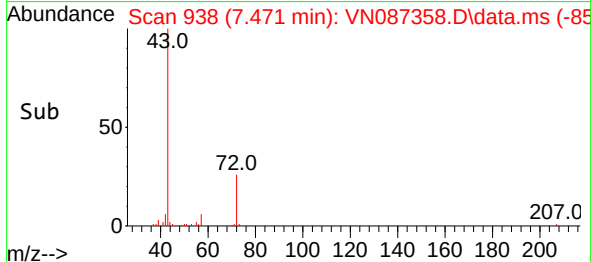
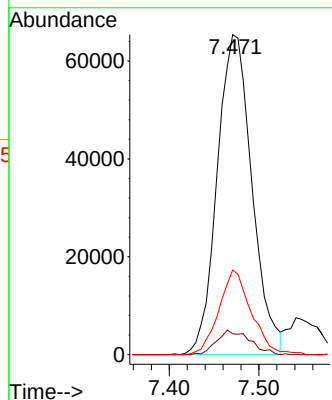
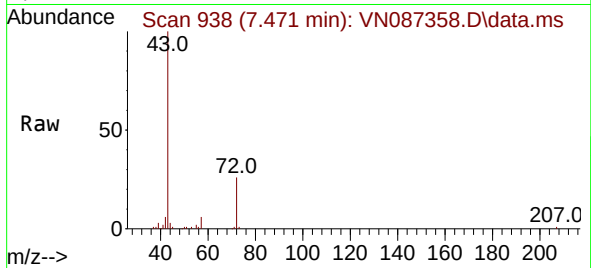




#30
2-Butanone
Concen: 80.166 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.024 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

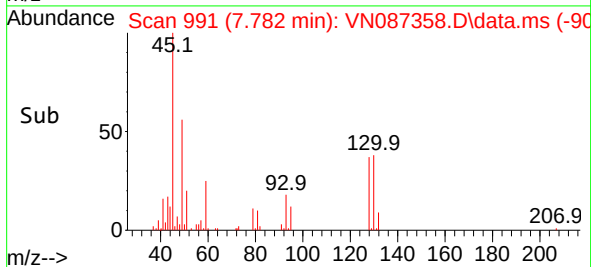
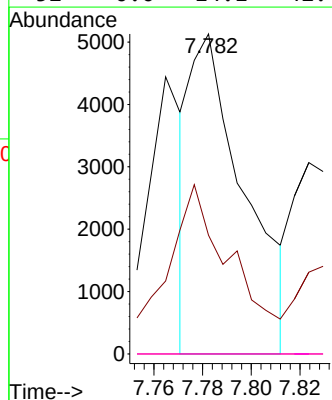
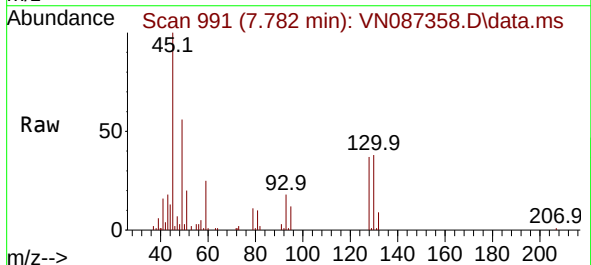
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

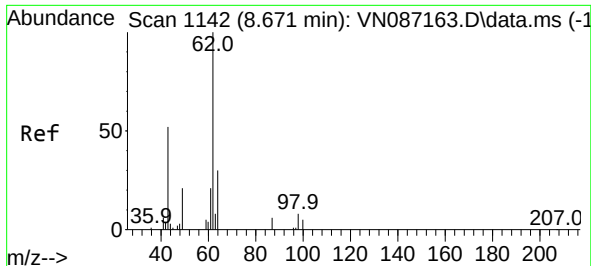
Tgt Ion: 43 Resp: 176094
Ion Ratio Lower Upper
43 100
57 4.7 6.3 9.5#
72 24.7 21.8 32.6



#35
Methacrylonitrile
Concen: 3.573 ug/l
RT: 7.782 min Scan# 991
Delta R.T. -0.006 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Tgt Ion: 41 Resp: 7909
Ion Ratio Lower Upper
41 100
39 39.7 24.4 73.2
67 0.0 33.3 99.8#
52 0.0 14.1 42.4#





#36

1,2-Dichloroethane

Concen: 1.235 ug/l

RT: 9.076 min Scan# 11

Delta R.T. 0.406 min

Lab File: VN087358.D

Acq: 18 Jul 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

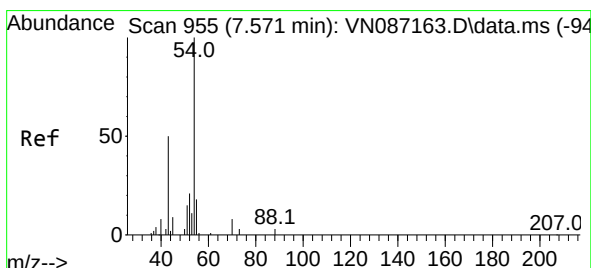
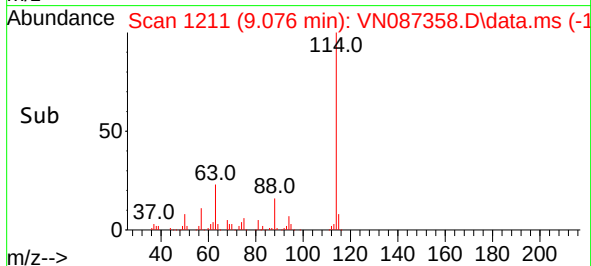
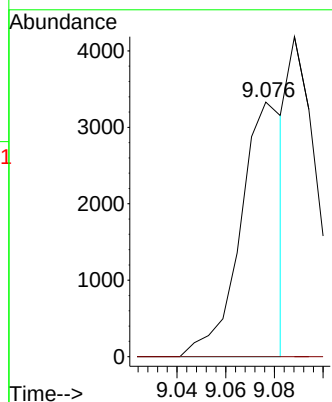
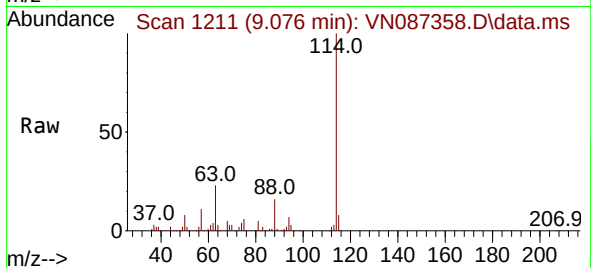
002 35th Ave (JUNE)

Tgt Ion: 62 Resp: 4118

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#43

Ethyl Acetate

Concen: 4.070 ug/l

RT: 7.541 min Scan# 950

Delta R.T. -0.029 min

Lab File: VN087358.D

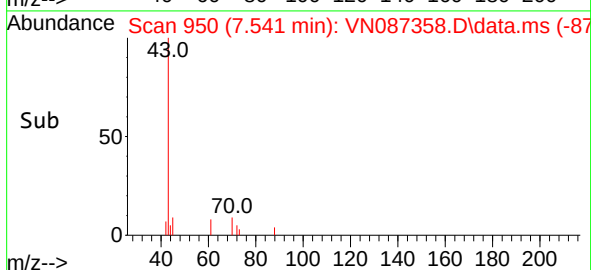
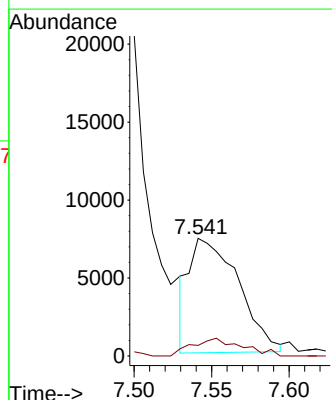
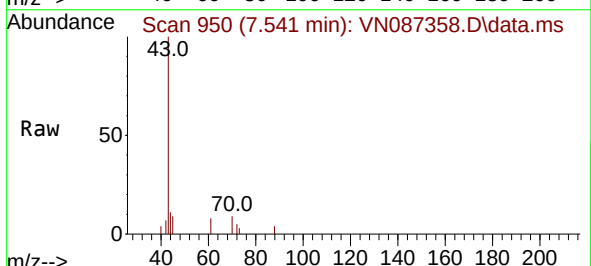
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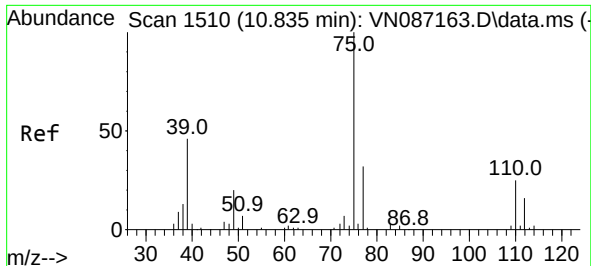
Tgt Ion: 43 Resp: 16138

Ion Ratio Lower Upper

43 100

45 15.7 11.5 17.3

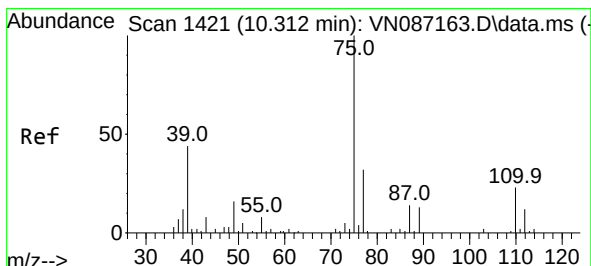
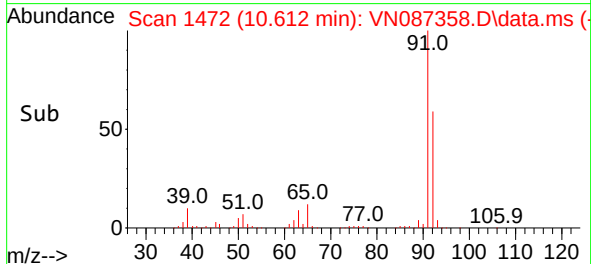
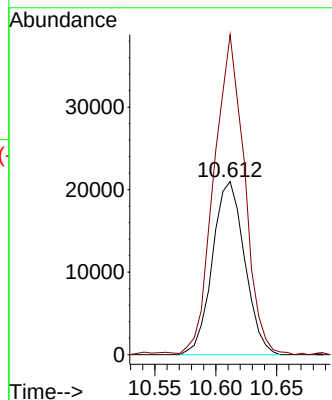
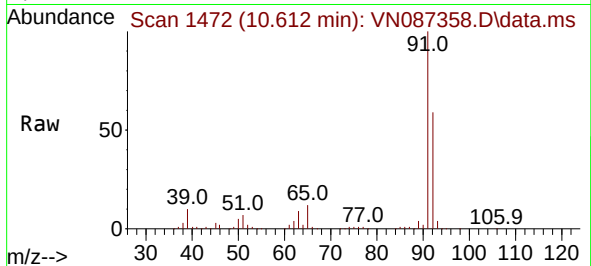




#48
 t-1,3-Dichloropropene
 Concen: 9.735 ug/l
 RT: 10.612 min Scan# 1472
 Delta R.T. -0.224 min
 Lab File: VN087358.D
 Acq: 18 Jul 2025 12:12

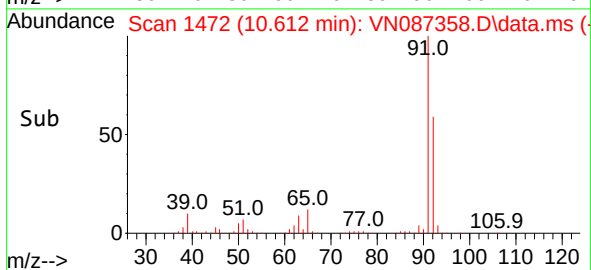
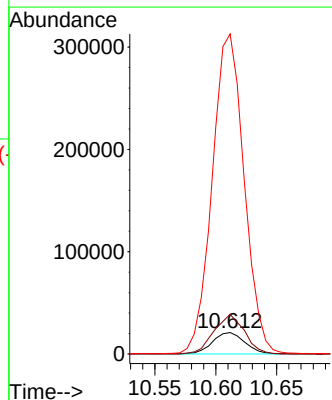
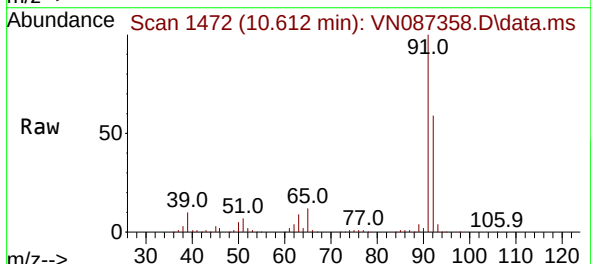
Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave (JUNE)

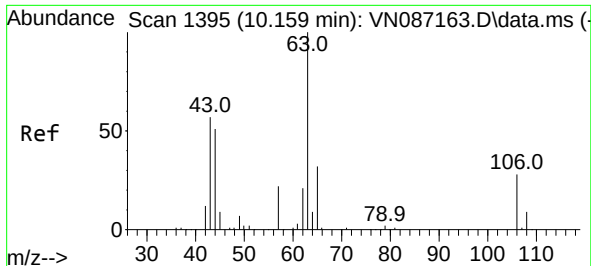
Tgt Ion: 75 Resp: 38570
 Ion Ratio Lower Upper
 75 100
 77 184.2 25.4 38.0#



#49
 cis-1,3-Dichloropropene
 Concen: 9.158 ug/l
 RT: 10.612 min Scan# 1472
 Delta R.T. 0.300 min
 Lab File: VN087358.D
 Acq: 18 Jul 2025 12:12

Tgt Ion: 75 Resp: 38570
 Ion Ratio Lower Upper
 75 100
 77 184.2 25.4 38.2#
 39 1486.3 35.3 52.9#

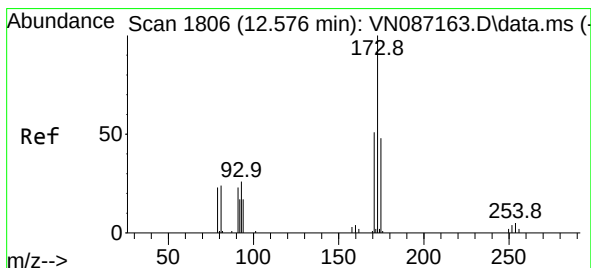
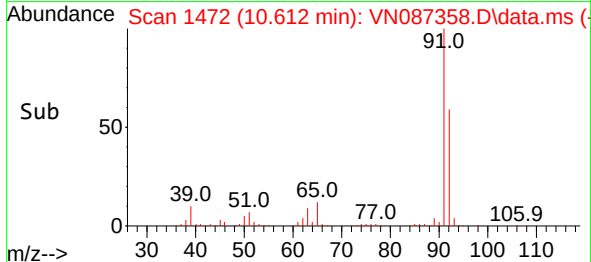
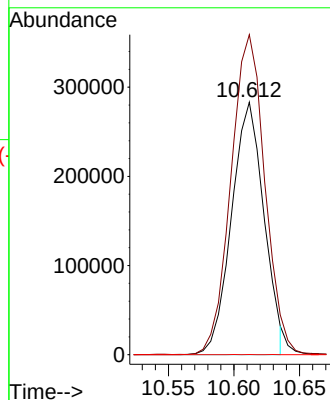
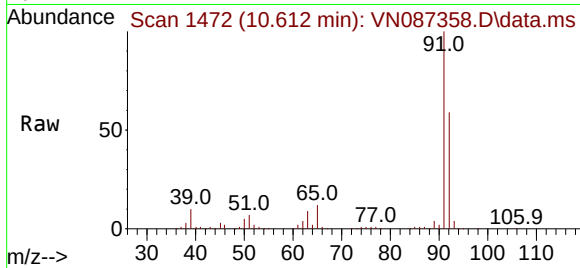




#55
2-Chloroethyl vinyl ether
Concen: 222.922 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.453 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

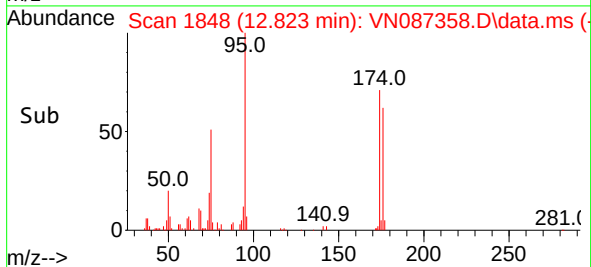
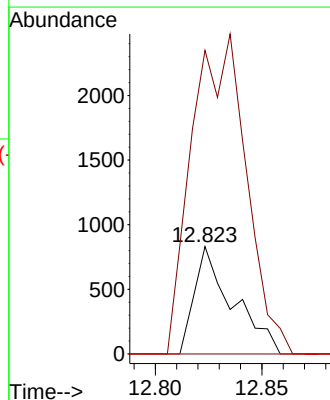
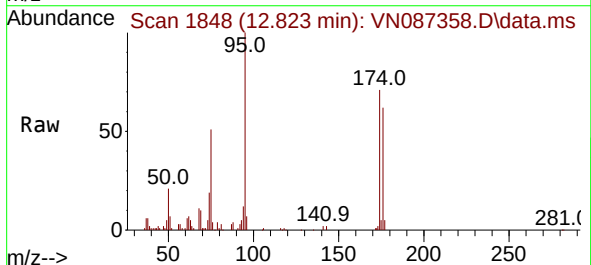
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

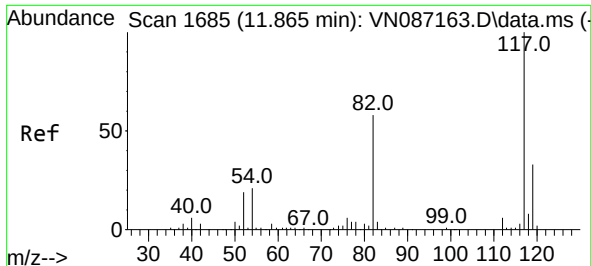
Tgt Ion: 63 Resp: 486416
Ion Ratio Lower Upper
63 100
65 130.9 25.6 38.4#
106 0.0 21.9 32.9#



#56
Bromoform
Concen: 0.577 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.247 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Tgt Ion: 173 Resp: 1042
Ion Ratio Lower Upper
173 100
175 421.6 38.7 58.1#
254 0.0 4.2 6.4#

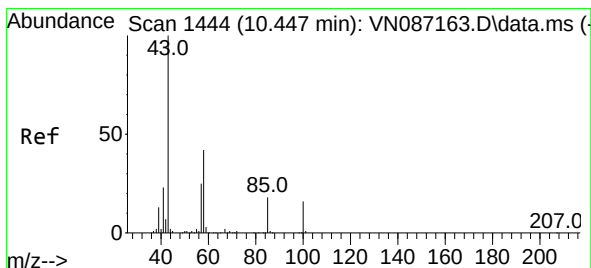
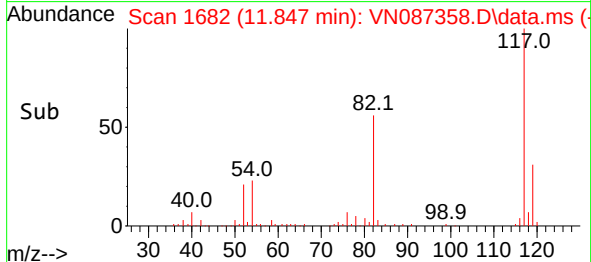
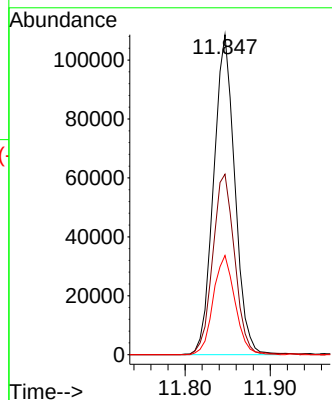
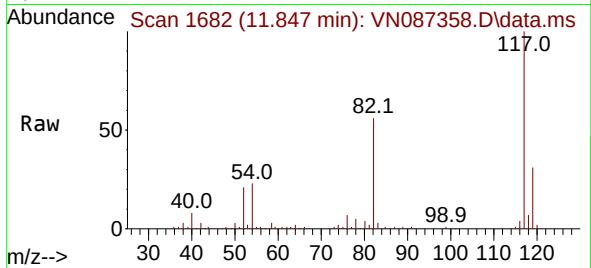




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

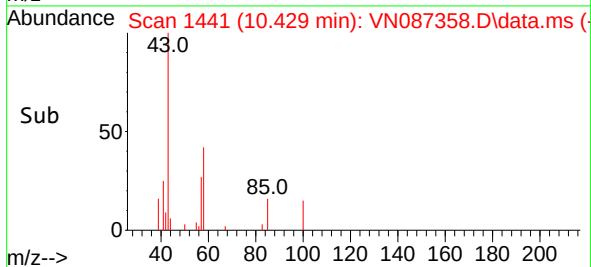
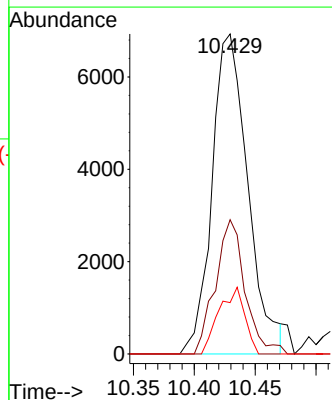
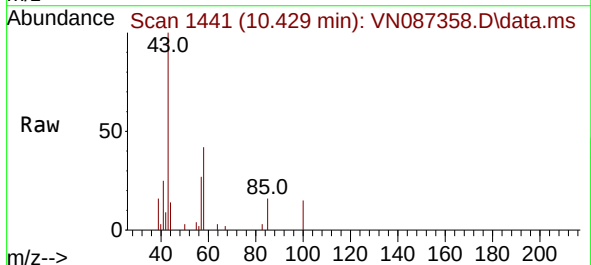
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

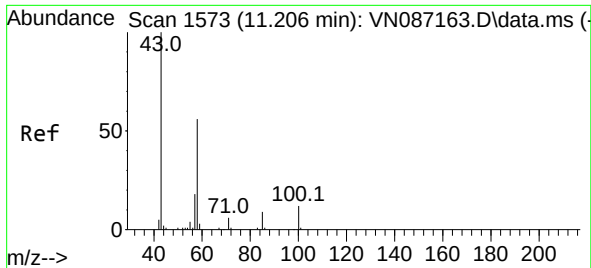
Tgt Ion:117 Resp: 187807
Ion Ratio Lower Upper
117 100
82 58.0 45.4 68.2
119 31.8 26.2 39.4



#58
4-Methyl-2-Pentanone
Concen: 3.751 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

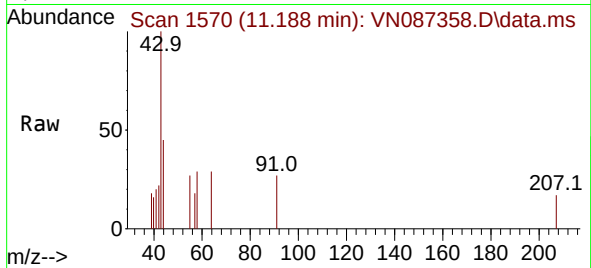
Tgt Ion: 43 Resp: 14161
Ion Ratio Lower Upper
43 100
58 33.9 32.6 49.0
85 15.0 14.6 22.0



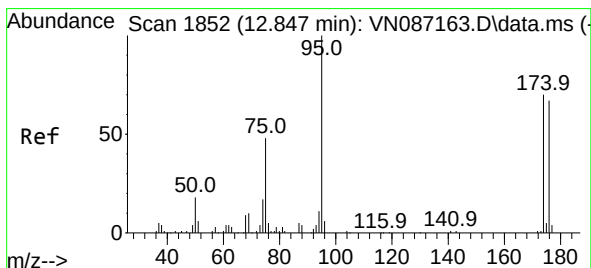
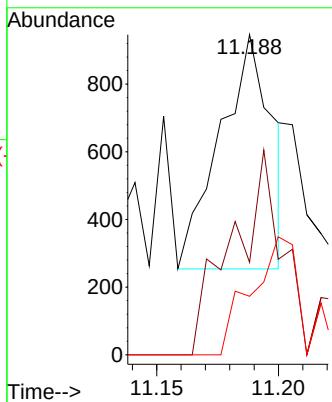
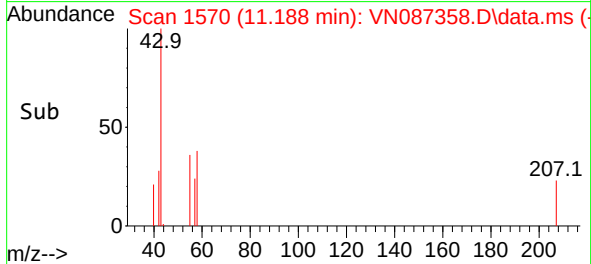


#59
2-Hexanone
Concen: 0.420 ug/l
RT: 11.188 min Scan# 111
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

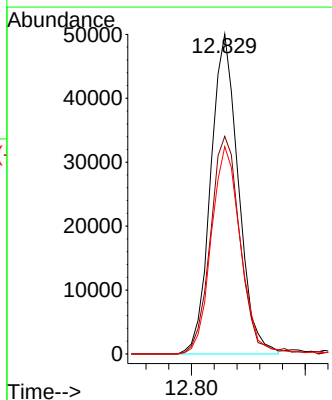
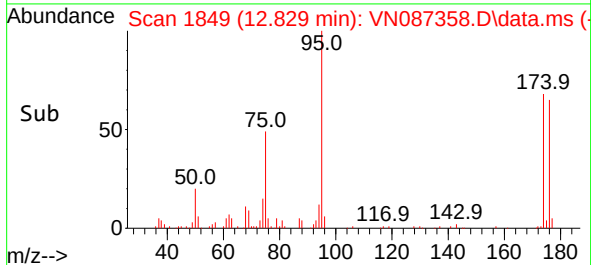
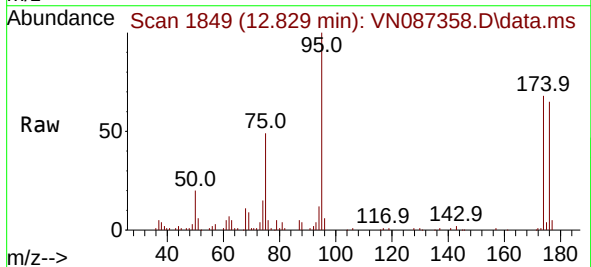


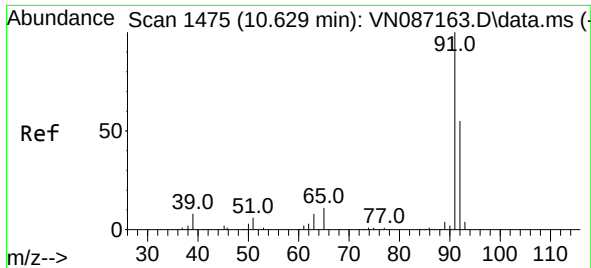
Tgt Ion: 43 Resp: 1024
Ion Ratio Lower Upper
43 100
58 41.3 49.2 73.8#
57 30.7 15.3 22.9#



#60
4-Bromofluorobenzene
Concen: 29.217 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Tgt Ion: 95 Resp: 84672
Ion Ratio Lower Upper
95 100
174 72.3 54.5 81.7
176 68.7 51.9 77.9

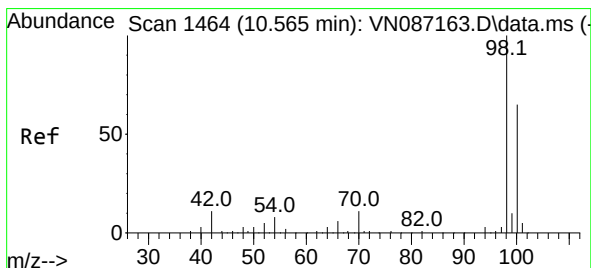
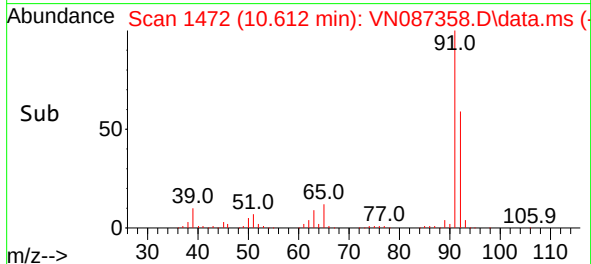
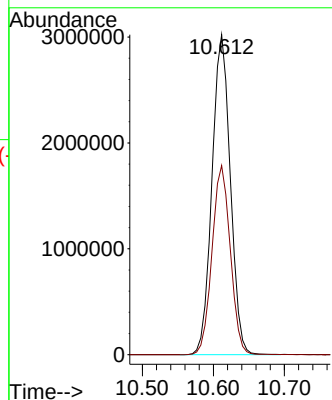
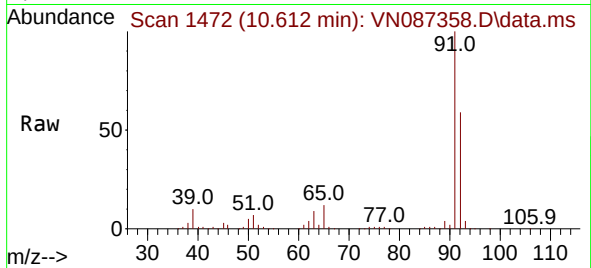




#62
Toluene
Concen: 509.603 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

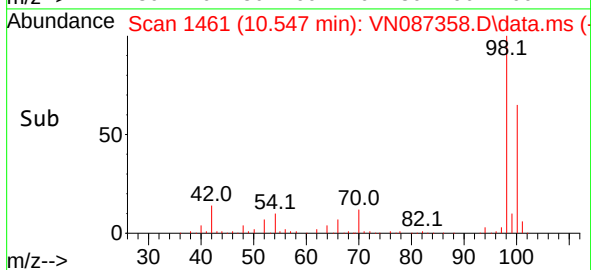
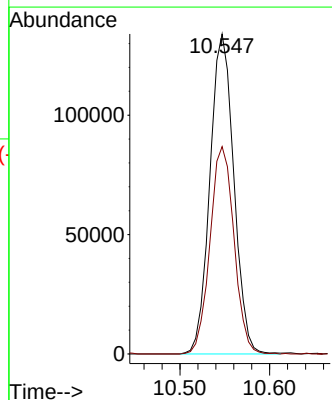
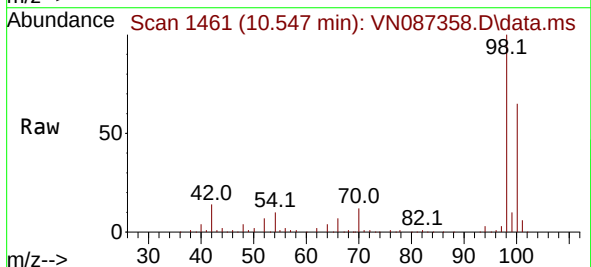
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

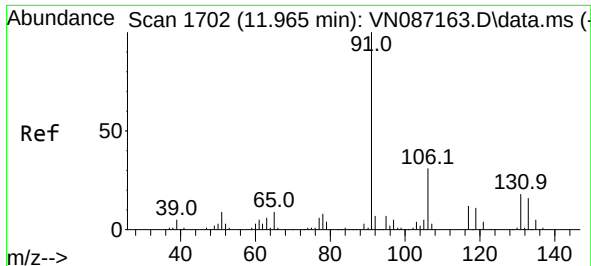
Tgt Ion: 91 Resp: 5405378
Ion Ratio Lower Upper
91 100
92 58.9 45.8 68.8



#63
Toluene-d8
Concen: 29.375 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Tgt Ion: 98 Resp: 247701
Ion Ratio Lower Upper
98 100
100 65.0 52.5 78.7

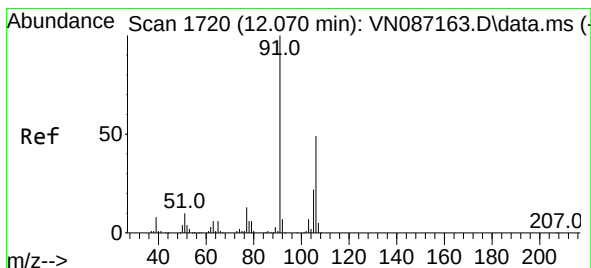
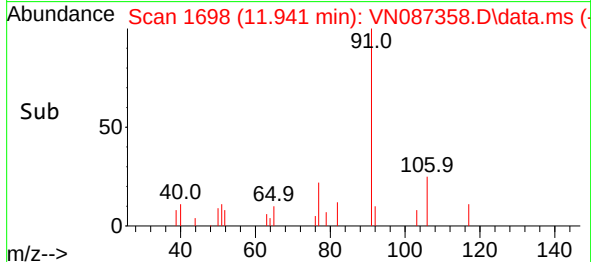
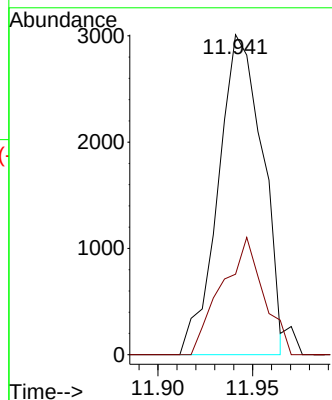
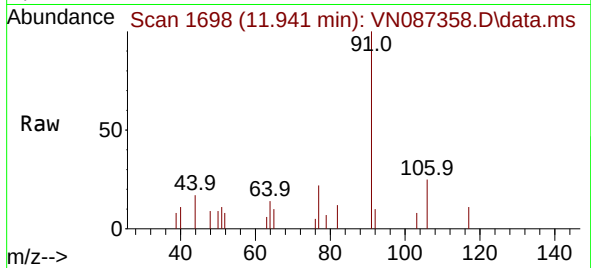




#66
Ethyl Benzene
Concen: 0.422 ug/l
RT: 11.941 min Scan# 11941
Delta R.T. -0.024 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

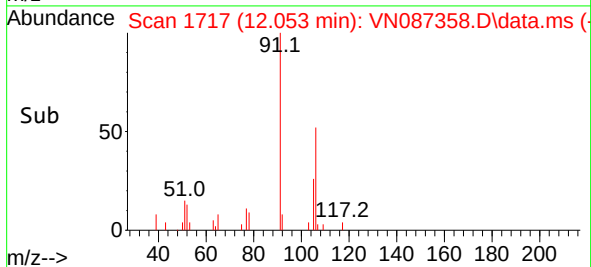
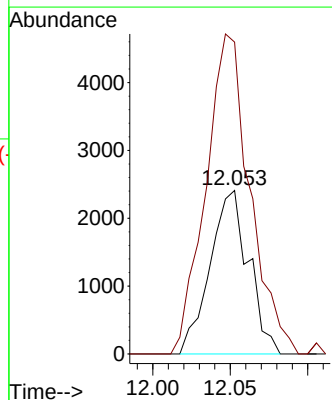
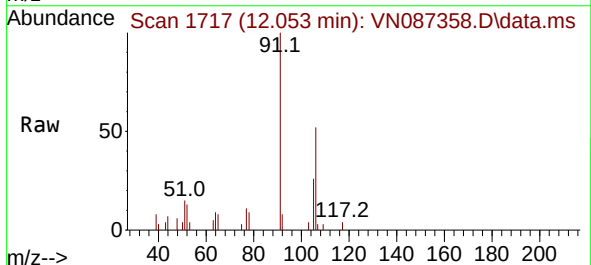
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

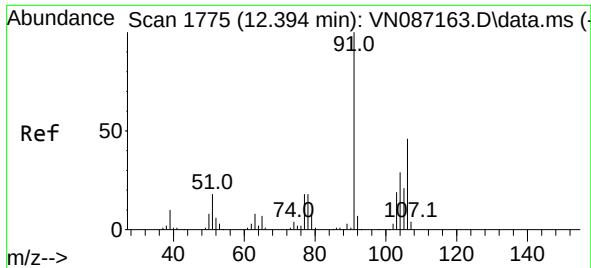
Tgt Ion: 91 Resp: 4899
Ion Ratio Lower Upper
91 100
106 25.1 24.8 37.2



#67
m/p-Xylenes
Concen: 0.937 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Tgt Ion: 106 Resp: 4169
Ion Ratio Lower Upper
106 100
91 223.9 163.0 244.4

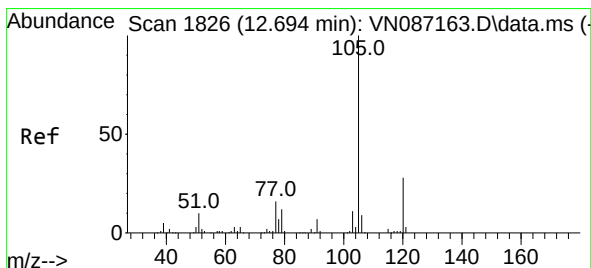
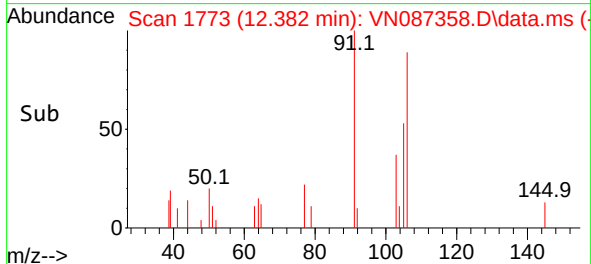
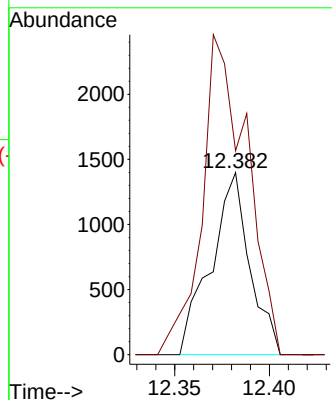
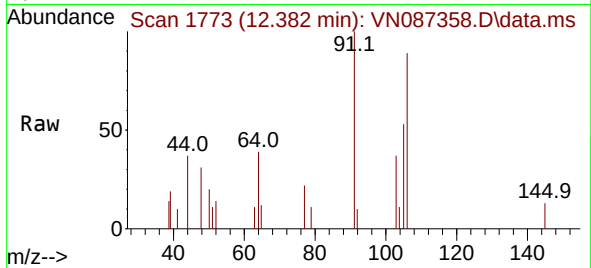




#68
o-Xylene
Concen: 0.470 ug/l
RT: 12.382 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

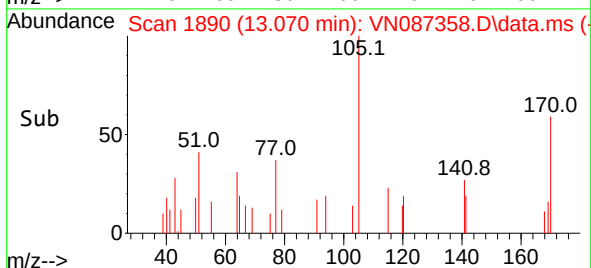
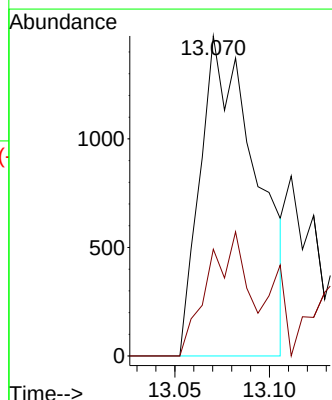
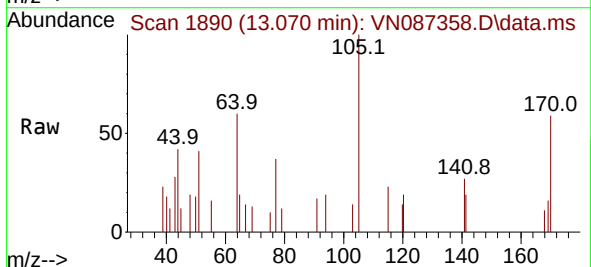
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

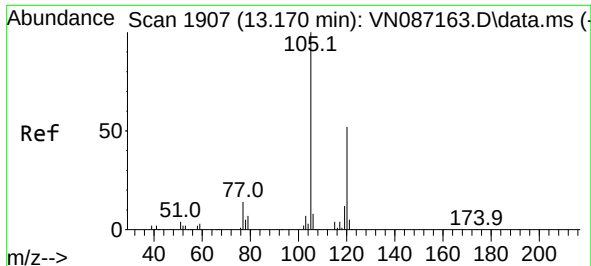
Tgt Ion:106 Resp: 1997
Ion Ratio Lower Upper
106 100
91 201.8 107.1 321.1



#70
Isopropylbenzene
Concen: 0.285 ug/l
RT: 13.070 min Scan# 1890
Delta R.T. 0.376 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Tgt Ion:105 Resp: 3013
Ion Ratio Lower Upper
105 100
120 27.4 19.0 35.2

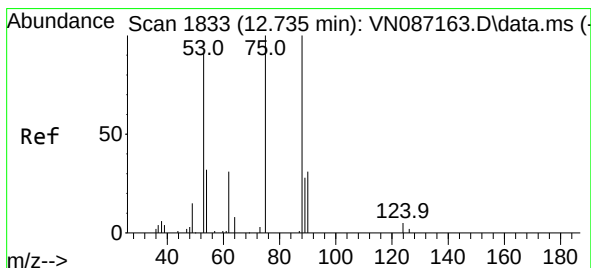
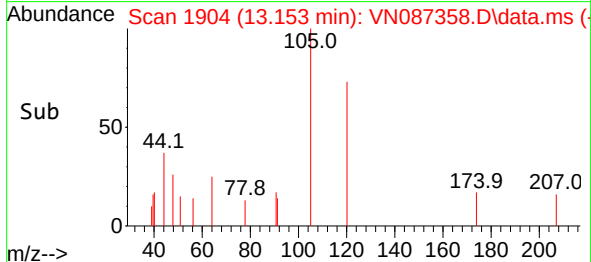
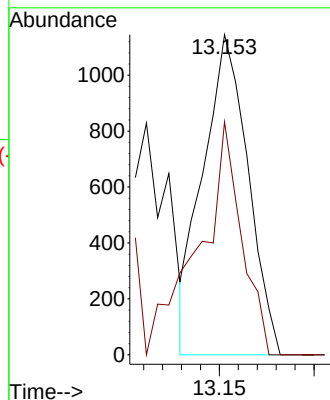
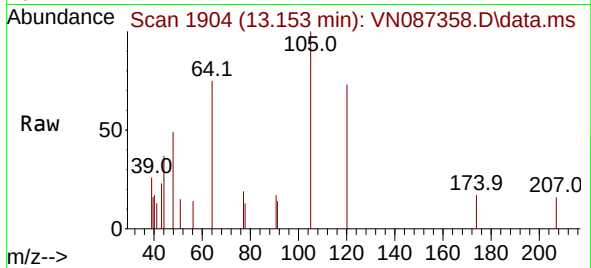




#76
1,3,5-Trimethylbenzene
Concen: 0.219 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.018 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

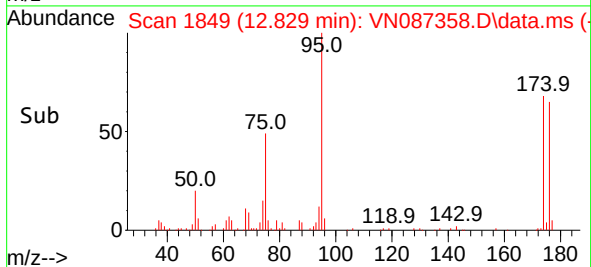
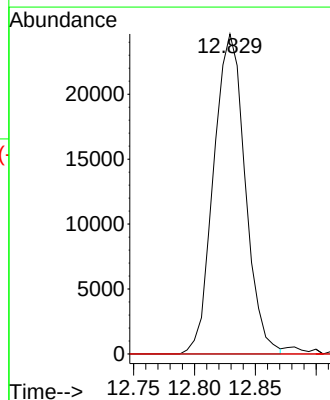
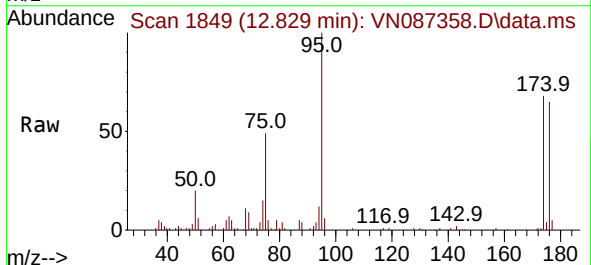
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

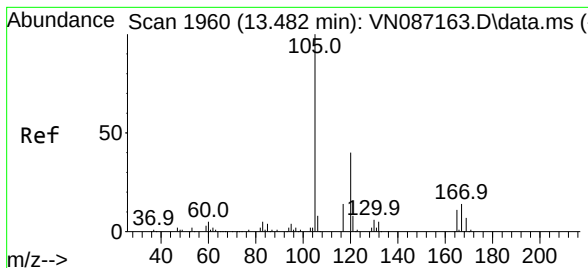
Tgt Ion:105 Resp: 1888
Ion Ratio Lower Upper
105 100
120 35.6 0.0 100.8



#77
t-1,4-Dichloro-2-butene
Concen: 30.561 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.094 min
Lab File: VN087358.D
Acq: 18 Jul 2025 12:12

Tgt Ion: 75 Resp: 44480
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.6#
89 0.0 22.3 66.9#





#80

1,2,4-Trimethylbenzene

Concen: 0.696 ug/l

RT: 13.464 min Scan# 1957

Delta R.T. -0.018 min

Lab File: VN087358.D

Acq: 18 Jul 2025 12:12

Instrument :

MSVOA_N

ClientSampleId :

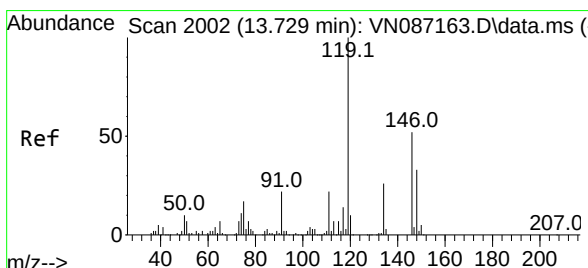
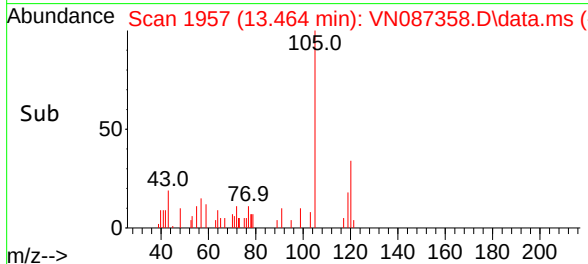
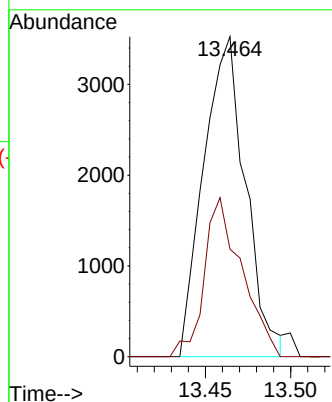
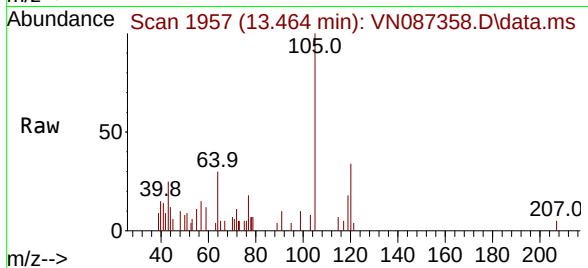
002 35th Ave (JUNE)

Tgt Ion:105 Resp: 6012

Ion Ratio Lower Upper

105 100

120 44.7 0.0 94.0



#82

p-Isopropyltoluene

Concen: 9.104 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. -0.024 min

Lab File: VN087358.D

Acq: 18 Jul 2025 12:12

Tgt Ion:119 Resp: 79671

Ion Ratio Lower Upper

119 100

134 26.6 0.0 51.2

91 25.6 0.0 46.4

