

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072225\
 Data File : VN087394.D
 Acq On : 22 Jul 2025 17:07
 Operator : JC\MD
 Sample : Q2669-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jul 23 05:57:41 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)

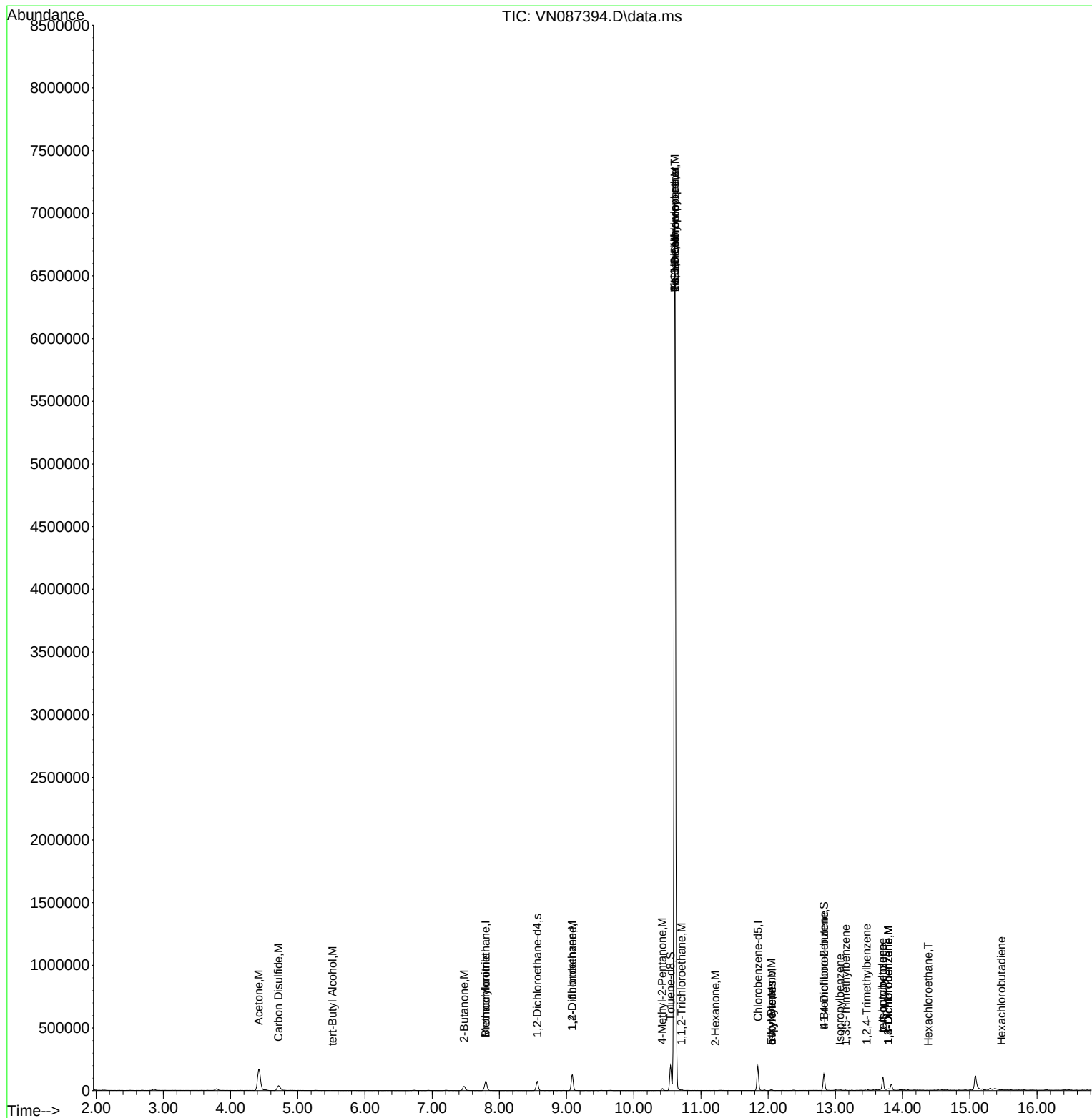
Internal Standards						
1) Bromochloromethane	7.794	128	23359	30.000	ug/l	-0.03
28) 1,4-Difluorobenzene	9.088	114	108192	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	106953	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	60290	34.256	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	=	114.200%#
60) 4-Bromofluorobenzene	12.829	95	44373	26.886	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.633%
63) Toluene-d8	10.547	98	132585	27.609	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	92.033%
Target Compounds						
						Qvalue
15) Acetone	4.418	58	97543	323.000	ug/l #	67
16) Carbon Disulfide	4.712	76	3165	0.765	ug/l #	91
23) tert-Butyl Alcohol	5.518	59	282	0.724	ug/l #	100
30) 2-Butanone	7.477	43	58085	51.063	ug/l	96
35) Methacrylonitrile	7.794	41	382	0.333	ug/l #	29
36) 1,2-Dichloroethane	9.082	62	4768	2.762	ug/l #	75
48) t-1,3-Dichloropropene	10.612	75	36329	17.707	ug/l #	1
49) cis-1,3-Dichloropropene	10.612	75	36329	16.657	ug/l #	1
50) 1,1,2-Trichloroethane	10.712	97	3363	2.597	ug/l #	20
55) 2-Chloroethyl vinyl ether	10.612	63	465067	411.581	ug/l #	1
58) 4-Methyl-2-Pentanone	10.424	43	11898	5.534	ug/l #	88
59) 2-Hexanone	11.212	43	386	0.278	ug/l #	29
62) Toluene	10.612	91	4944966	818.631	ug/l	99
66) Ethyl Benzene	12.047	91	5251	0.794	ug/l	92
67) m/p-Xylenes	12.053	106	2663	1.051	ug/l	96
68) o-Xylene	12.053	106	2663	1.102	ug/l	89
70) Isopropylbenzene	13.070	105	1785	0.297	ug/l	89
76) 1,3,5-Trimethylbenzene	13.153	105	1596	0.326	ug/l	79
77) t-1,4-Dichloro-2-butene	12.829	75	22991	27.738	ug/l #	13
79) tert-butylbenzene	13.706	119	56929	13.819	ug/l	60
80) 1,2,4-Trimethylbenzene	13.464	105	4193	0.852	ug/l	86
82) p-Isopropyltoluene	13.706	119	56929	11.423	ug/l	95
83) 1,3-Dichlorobenzene	13.788	146	669	0.238	ug/l	76
84) 1,4-Dichlorobenzene	13.788	146	669	0.236	ug/l	75
86) Hexachloroethane	14.382	117	205	0.217	ug/l #	20
87) 1,2-Dichlorobenzene	13.788	146	669	0.252	ug/l	77
90) Hexachlorobutadiene	15.470	225	150	0.337	ug/l #	18

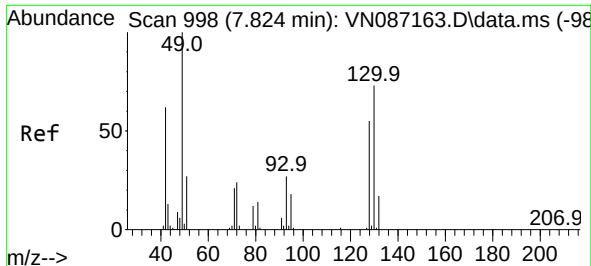
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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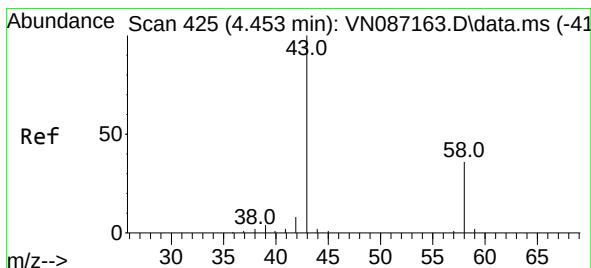
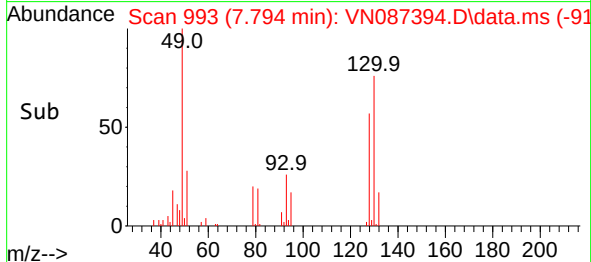
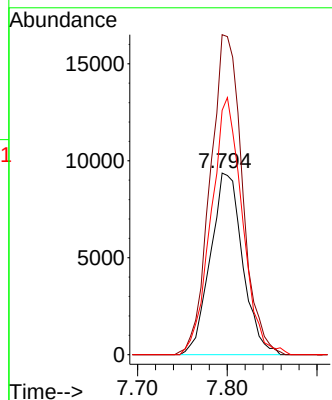
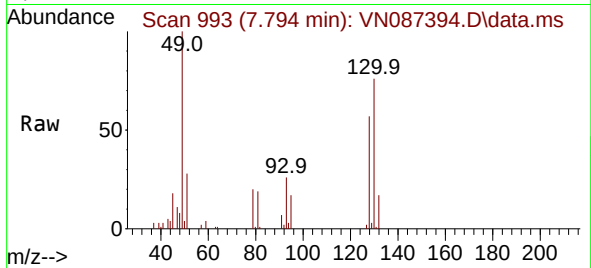




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 91
Delta R.T. -0.030 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

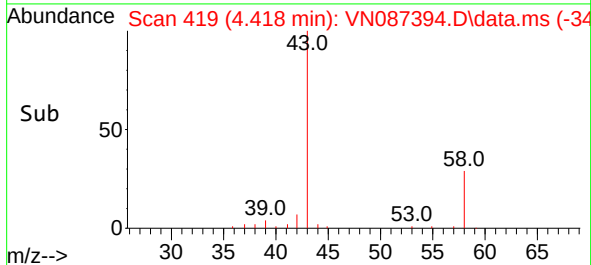
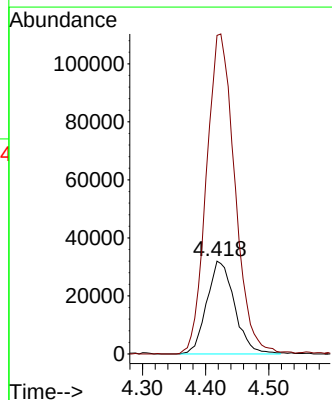
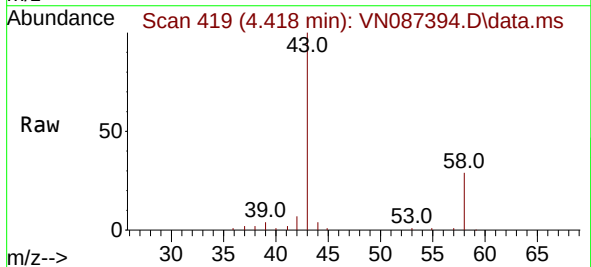
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

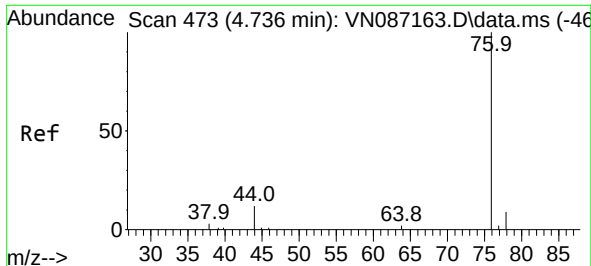
Tgt Ion:128 Resp: 23359
Ion Ratio Lower Upper
128 100
49 175.4 0.0 450.5
130 137.4 0.0 320.7



#15
Acetone
Concen: 323.000 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.035 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion: 58 Resp: 97543
Ion Ratio Lower Upper
58 100
43 342.4 224.3 336.5#

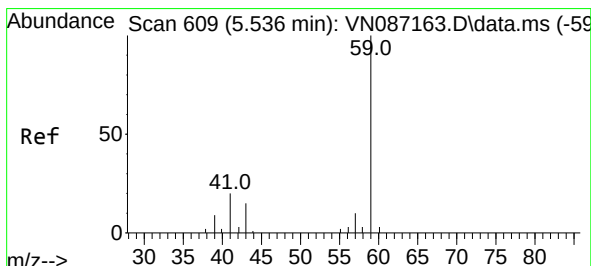
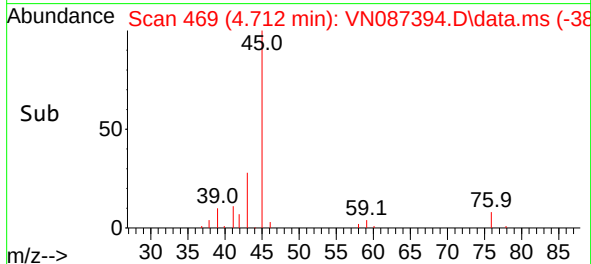
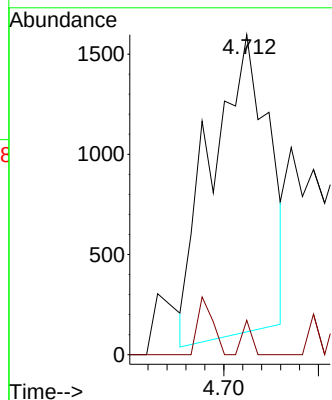
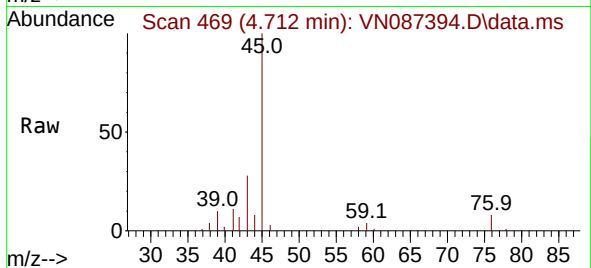




#16
Carbon Disulfide
Concen: 0.765 ug/l
RT: 4.712 min Scan# 41
Delta R.T. -0.024 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

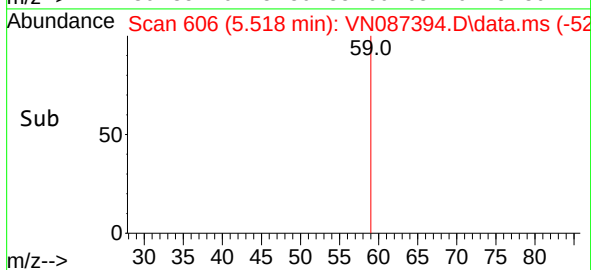
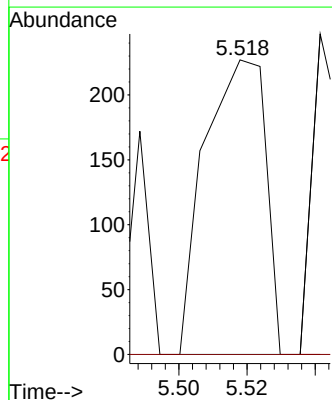
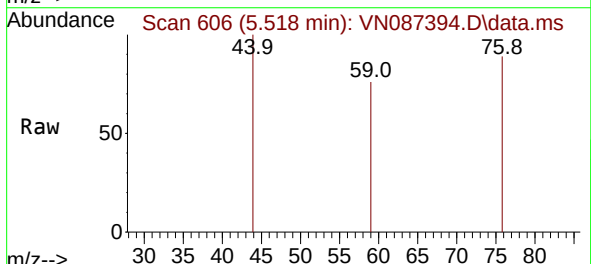
Instrument :
MSVOA_N
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002 35th Ave (JUNE)

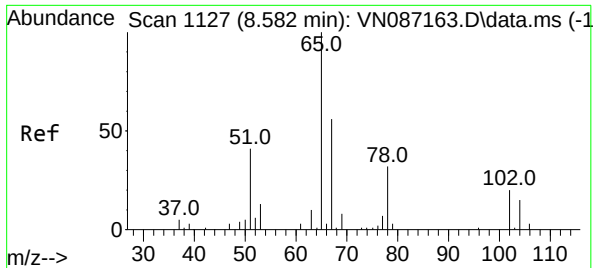
Tgt Ion: 76 Resp: 3165
Ion Ratio Lower Upper
76 100
78 12.4 7.2 10.8#



#23
tert-Butyl Alcohol
Concen: 0.724 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.018 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion: 59 Resp: 282
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 34.256 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. -0.018 min

Lab File: VN087394.D

Acq: 22 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

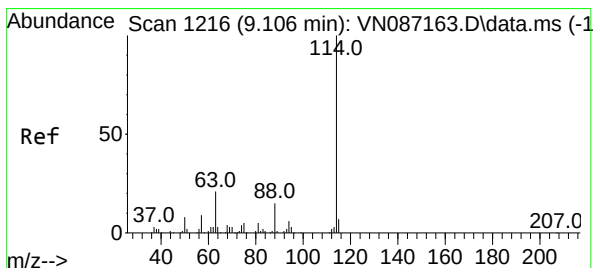
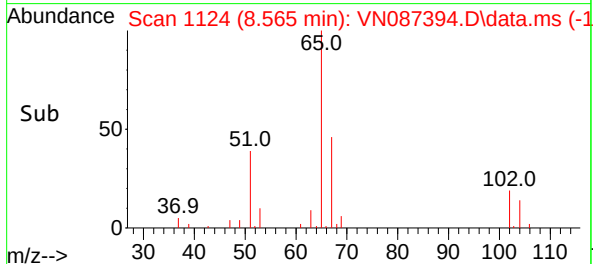
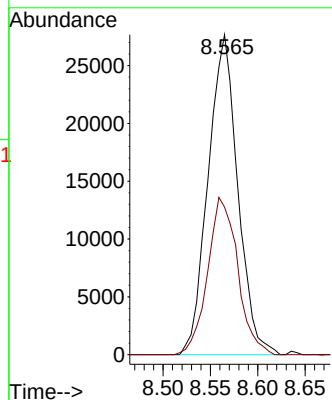
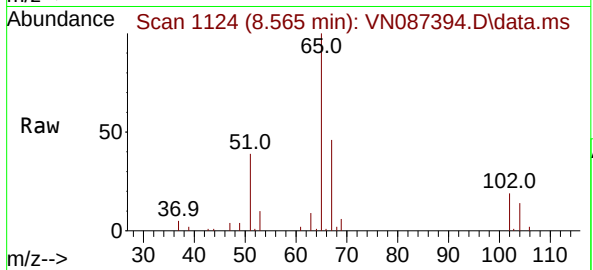
002 35th Ave (JUNE)

Tgt Ion: 65 Resp: 60290

Ion Ratio Lower Upper

65 100

67 49.8 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: VN087394.D

Acq: 22 Jul 2025 17:07

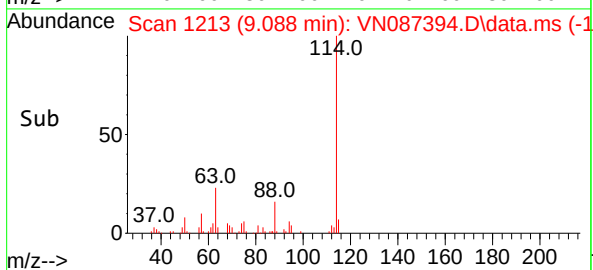
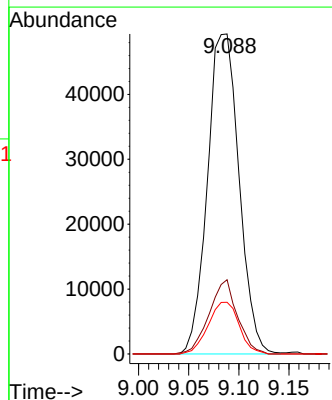
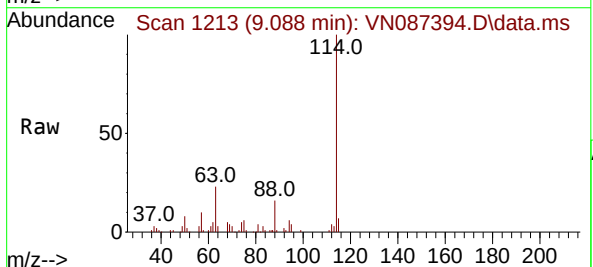
Tgt Ion: 114 Resp: 108192

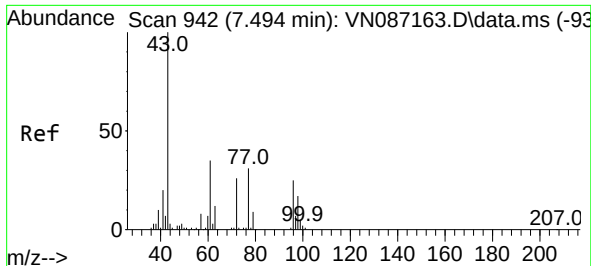
Ion Ratio Lower Upper

114 100

63 20.8 17.0 25.4

88 15.8 12.6 19.0

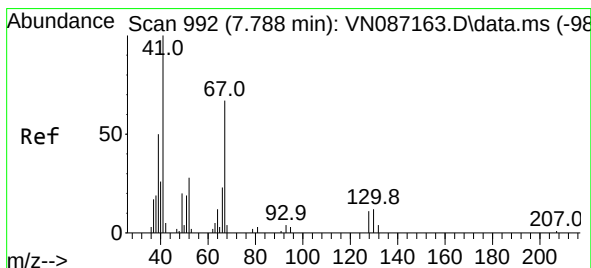
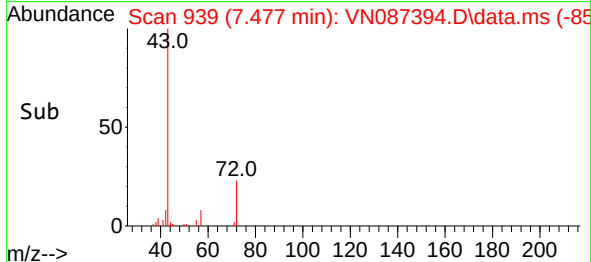
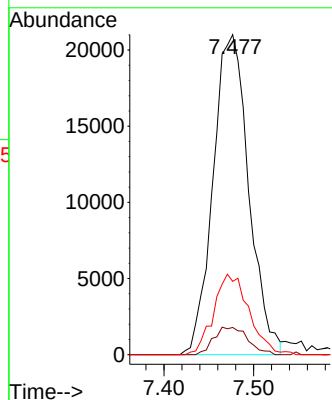
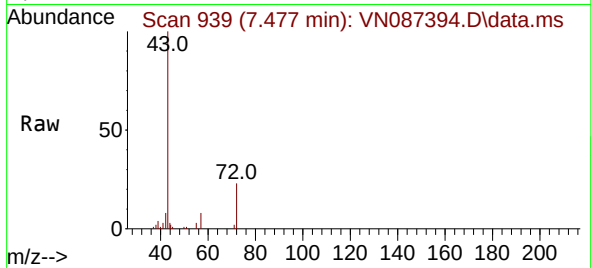




#30
2-Butanone
Concen: 51.063 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.018 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

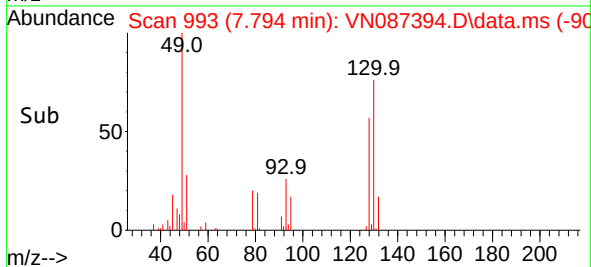
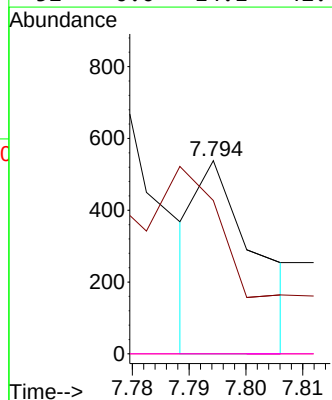
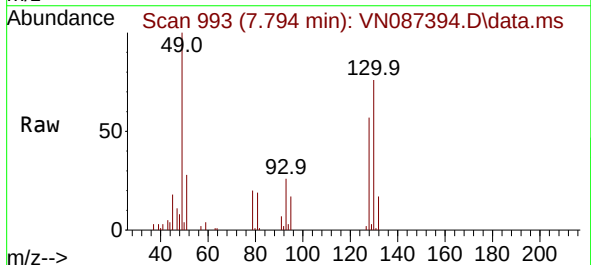
Instrument :
MSVOA_N
ClientSampleId :
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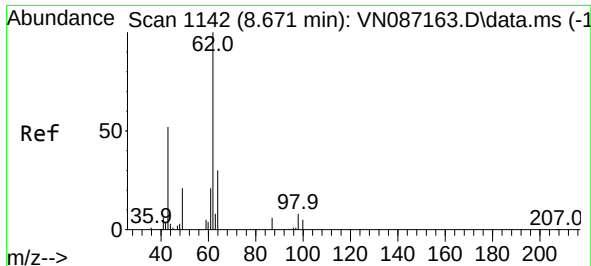
Tgt Ion: 43 Resp: 58085
Ion Ratio Lower Upper
43 100
57 8.2 6.3 9.5
72 24.7 21.8 32.6



#35
Methacrylonitrile
Concen: 0.333 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion: 41 Resp: 382
Ion Ratio Lower Upper
41 100
39 92.6 24.4 73.2#
67 0.0 33.3 99.8#
52 0.0 14.1 42.4#





#36

1,2-Dichloroethane

Concen: 2.762 ug/l

RT: 9.082 min Scan# 1142

Delta R.T. 0.412 min

Lab File: VN087394.D

Acq: 22 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

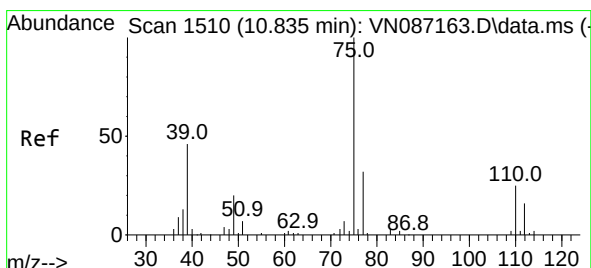
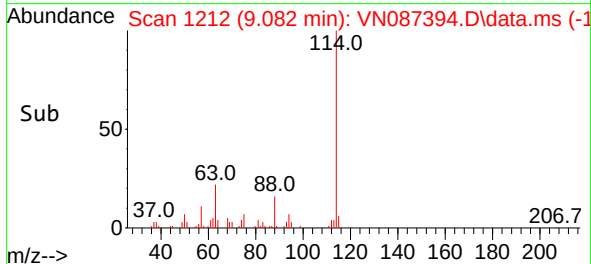
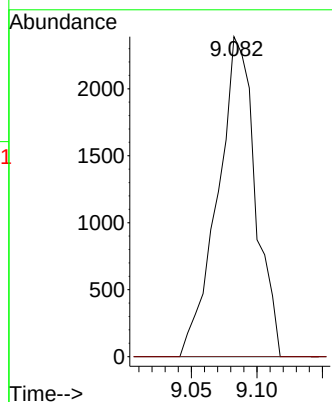
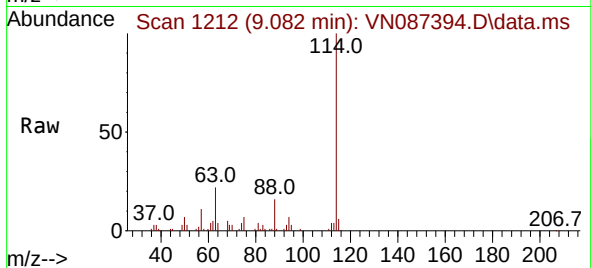
002 35th Ave (JUNE)

Tgt Ion: 62 Resp: 4768

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#48

t-1,3-Dichloropropene

Concen: 17.707 ug/l

RT: 10.612 min Scan# 1472

Delta R.T. -0.224 min

Lab File: VN087394.D

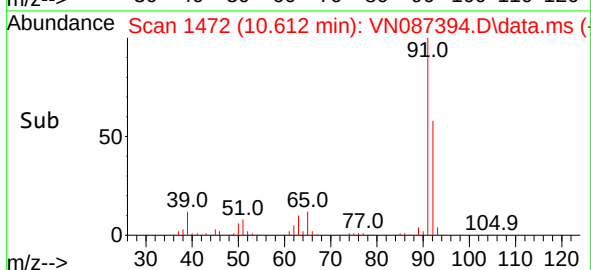
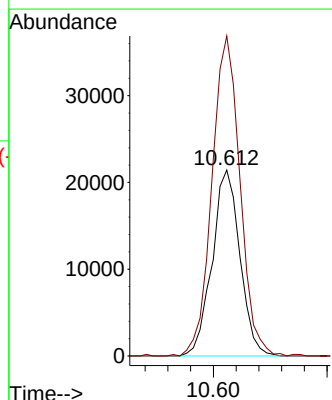
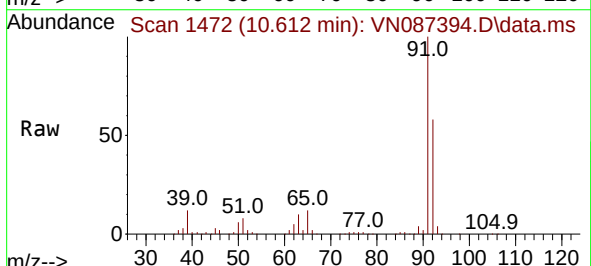
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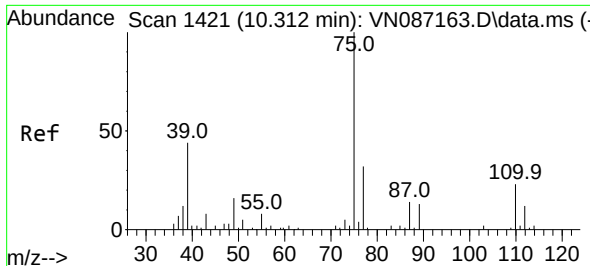
Tgt Ion: 75 Resp: 36329

Ion Ratio Lower Upper

75 100

77 172.1 25.4 38.0#

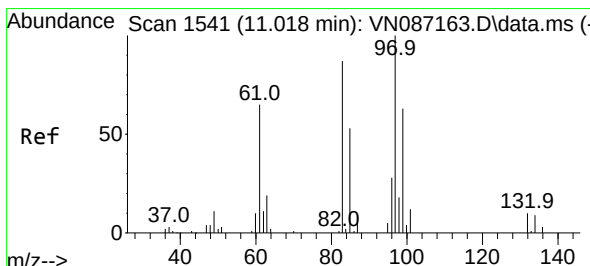
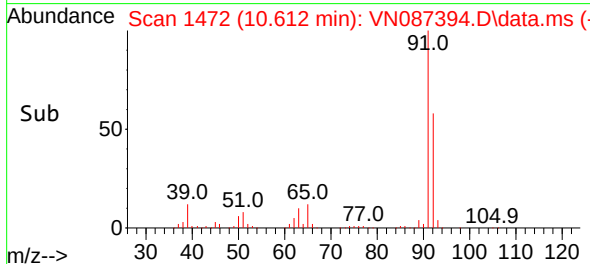
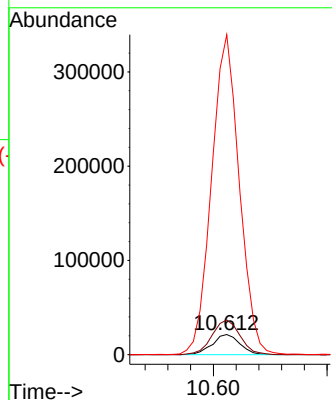
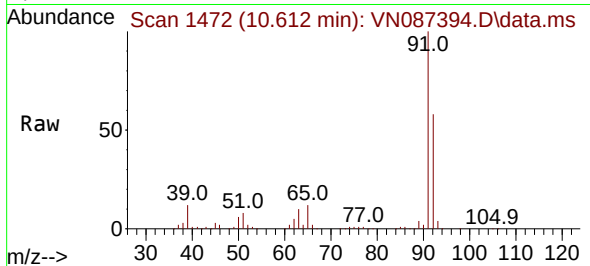




#49
 cis-1,3-Dichloropropene
 Concen: 16.657 ug/l
 RT: 10.612 min Scan# 1472
 Delta R.T. 0.300 min
 Lab File: VN087394.D
 Acq: 22 Jul 2025 17:07

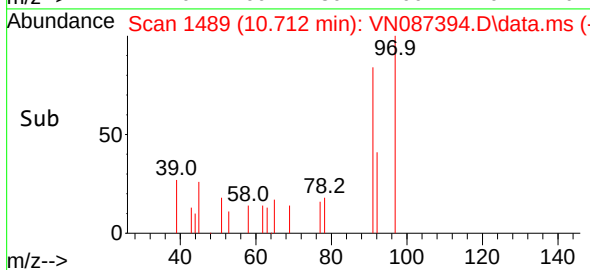
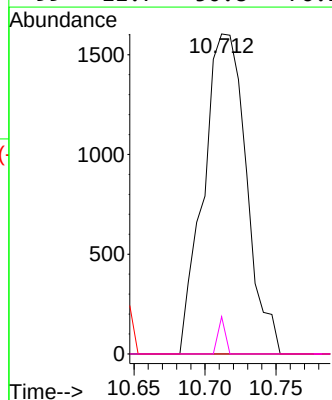
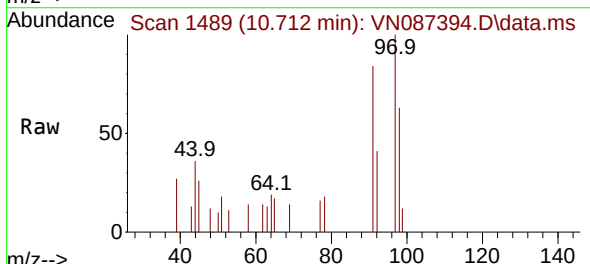
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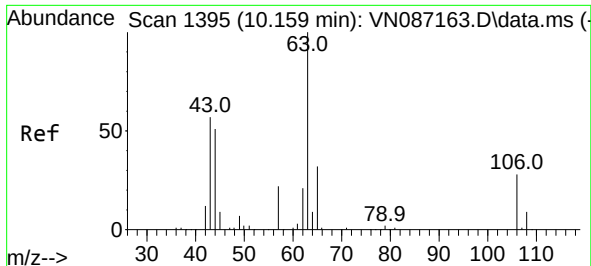
Tgt Ion: 75 Resp: 36329
 Ion Ratio Lower Upper
 75 100
 77 172.1 25.4 38.2#
 39 1580.1 35.3 52.9#



#50
 1,1,2-Trichloroethane
 Concen: 2.597 ug/l
 RT: 10.712 min Scan# 1489
 Delta R.T. -0.306 min
 Lab File: VN087394.D
 Acq: 22 Jul 2025 17:07

Tgt Ion: 97 Resp: 3363
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.6 104.4#
 85 0.0 42.0 63.0#
 99 11.7 50.8 76.2#

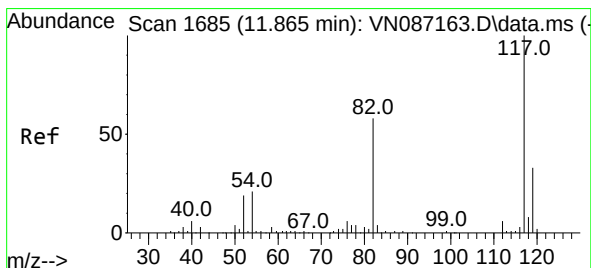
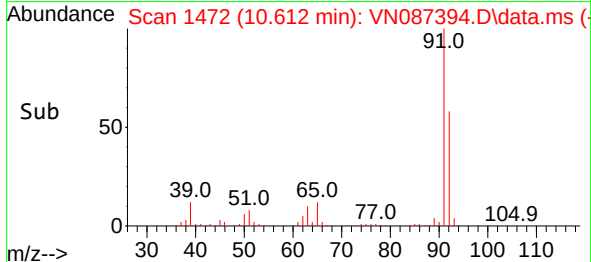
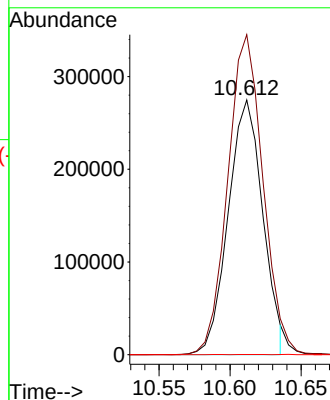
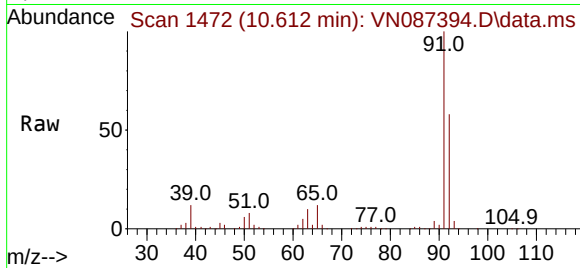




#55
2-Chloroethyl vinyl ether
Concen: 411.581 ug/l
RT: 10.612 min Scan# 14
Delta R.T. 0.453 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

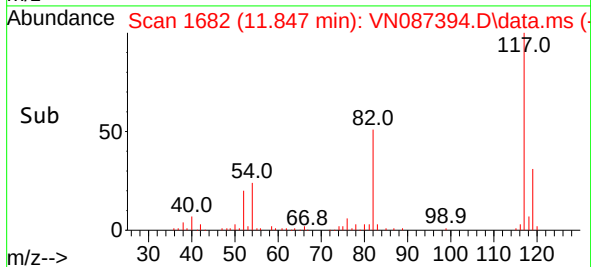
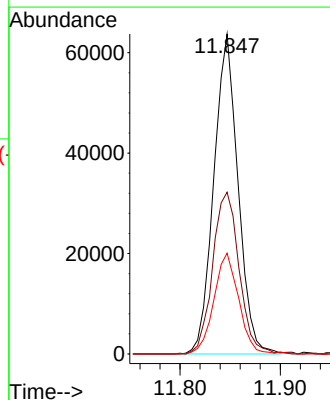
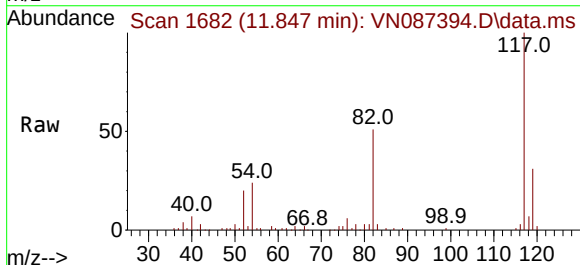
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

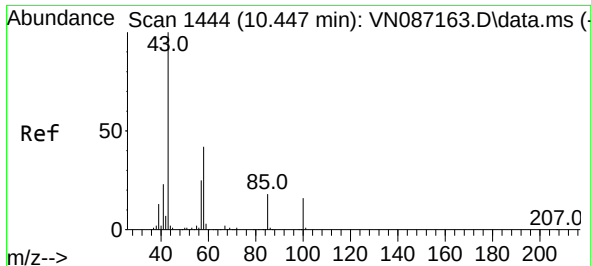
Tgt Ion: 63 Resp: 465067
Ion Ratio Lower Upper
63 100
65 126.1 25.6 38.4#
106 0.1 21.9 32.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.018 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion: 117 Resp: 106953
Ion Ratio Lower Upper
117 100
82 55.1 45.4 68.2
119 32.1 26.2 39.4

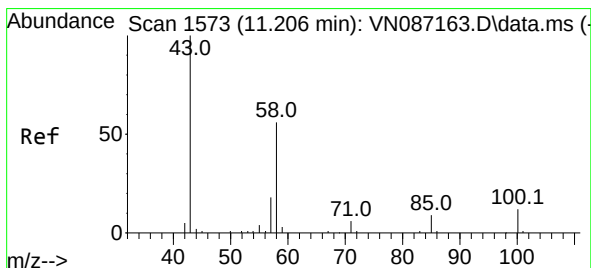
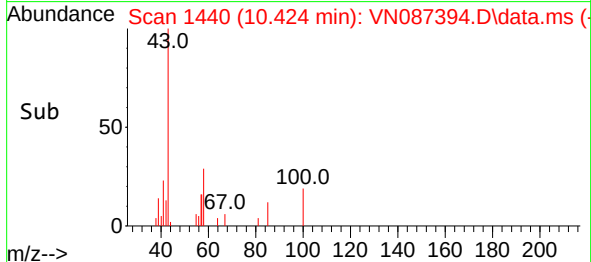
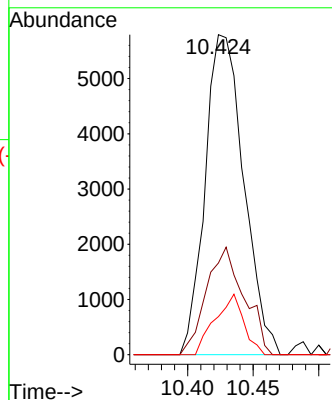
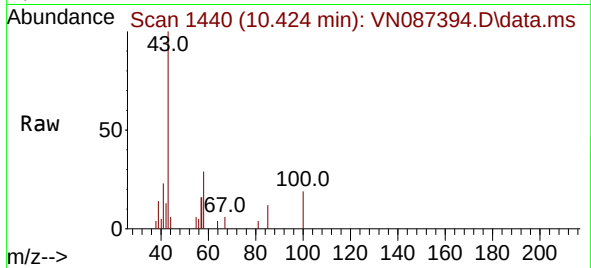




#58
4-Methyl-2-Pentanone
Concen: 5.534 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.024 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

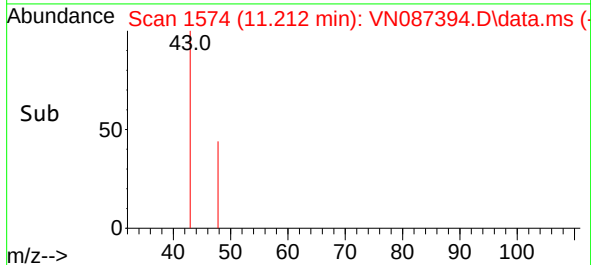
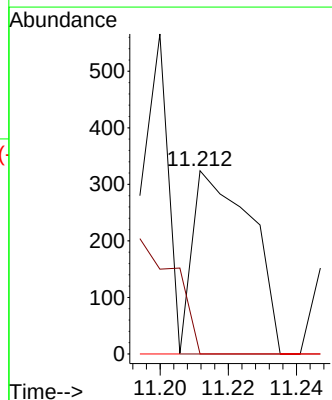
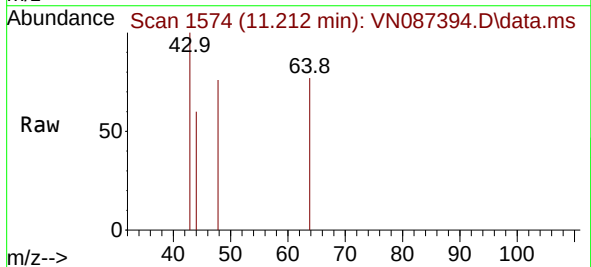
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

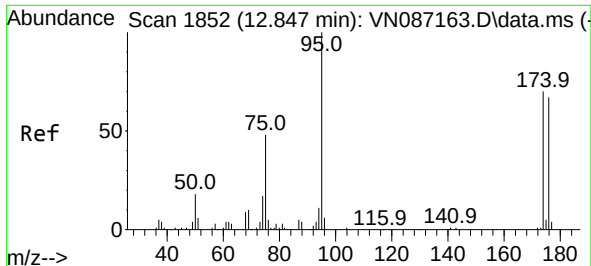
Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.9	32.6	49.0
85	14.0	14.6	22.0



#59
2-Hexanone
Concen: 0.278 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.006 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	49.2	73.8
57	0.0	15.3	22.9

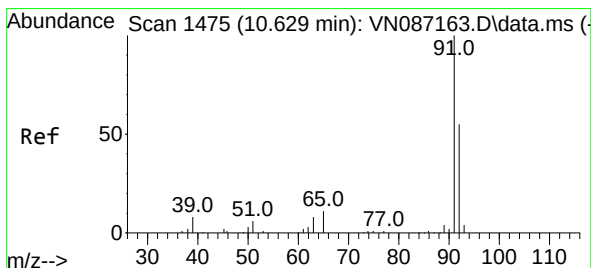
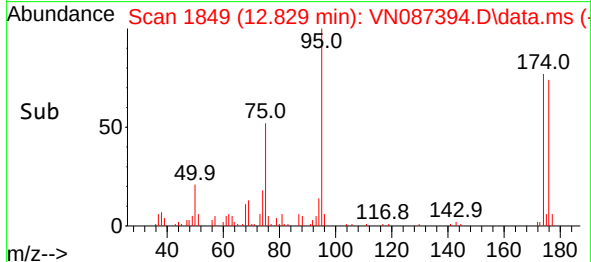
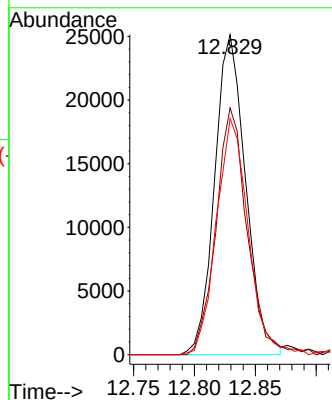
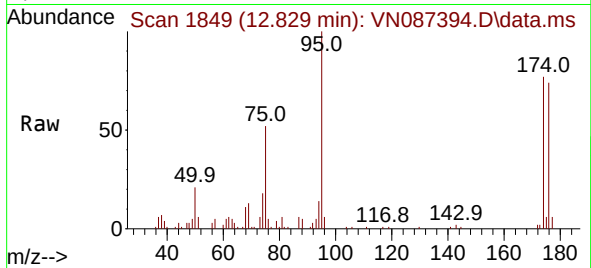




#60
4-Bromofluorobenzene
Concen: 26.886 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.018 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

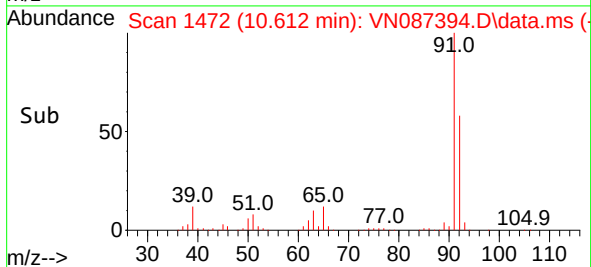
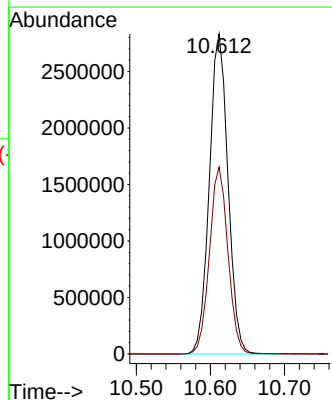
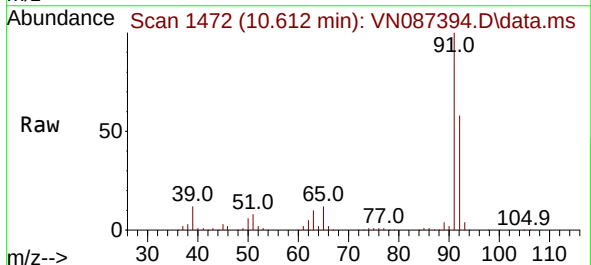
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

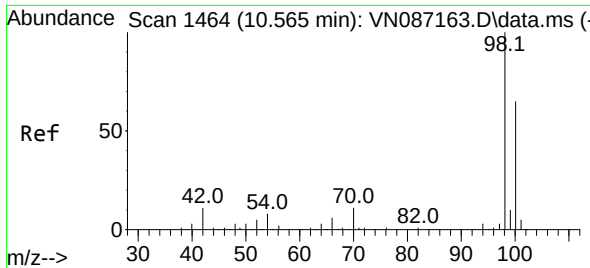
Tgt Ion: 95 Resp: 44373
Ion Ratio Lower Upper
95 100
174 77.7 54.5 81.7
176 76.0 51.9 77.9



#62
Toluene
Concen: 818.631 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.018 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion: 91 Resp: 4944966
Ion Ratio Lower Upper
91 100
92 57.9 45.8 68.8

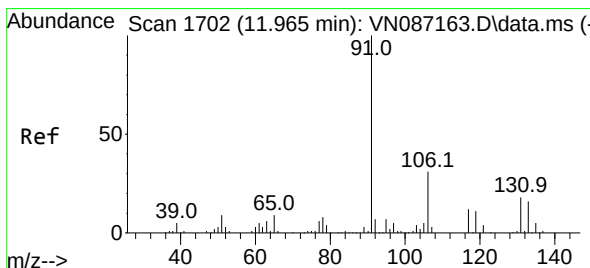
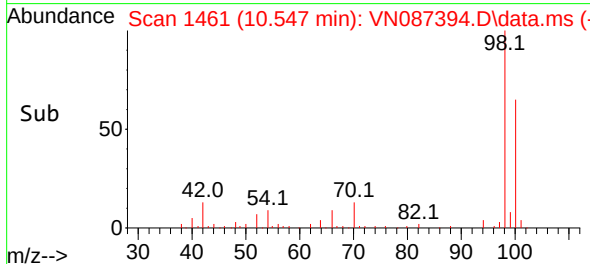
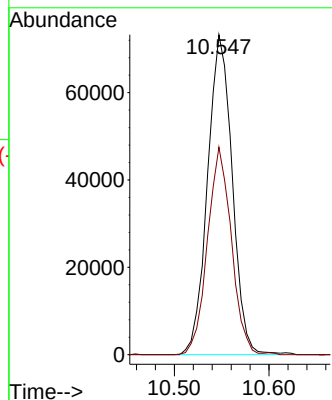
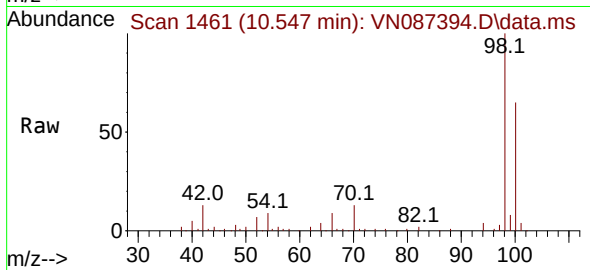




#63
Toluene-d8
Concen: 27.609 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.018 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

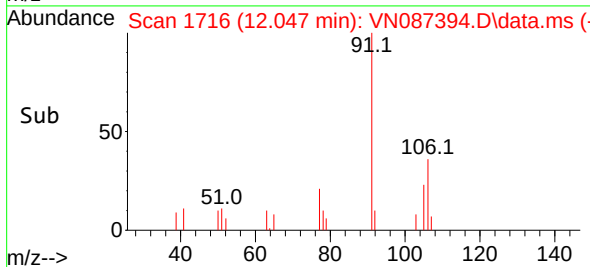
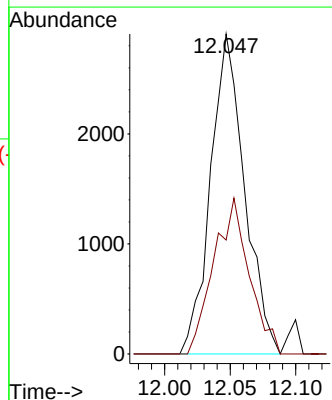
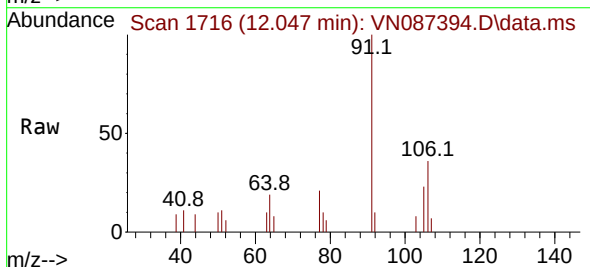
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

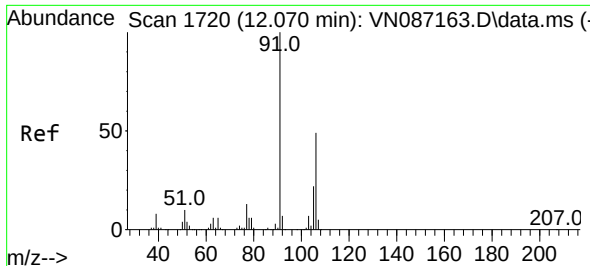
Tgt Ion: 98 Resp: 132585
Ion Ratio Lower Upper
98 100
100 62.9 52.5 78.7



#66
Ethyl Benzene
Concen: 0.794 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.082 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion: 91 Resp: 5251
Ion Ratio Lower Upper
91 100
106 35.6 24.8 37.2

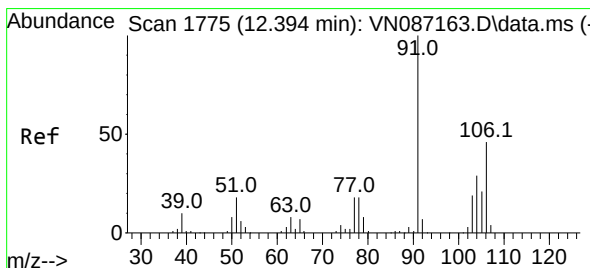
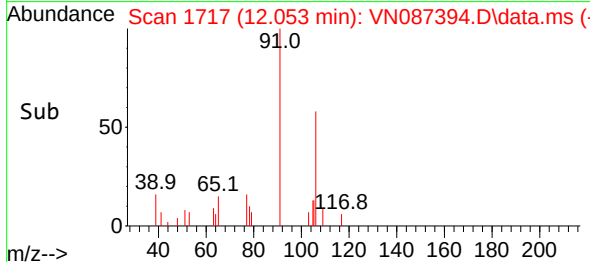
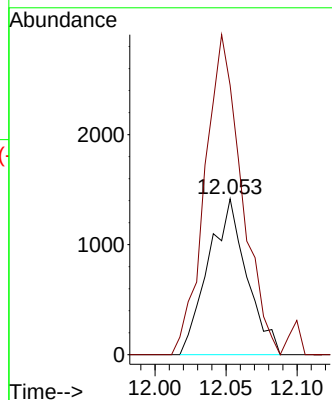
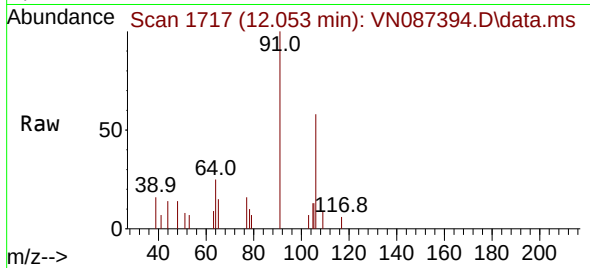




#67
m/p-Xylenes
Concen: 1.051 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. -0.018 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

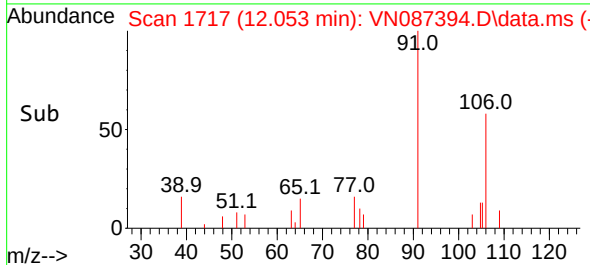
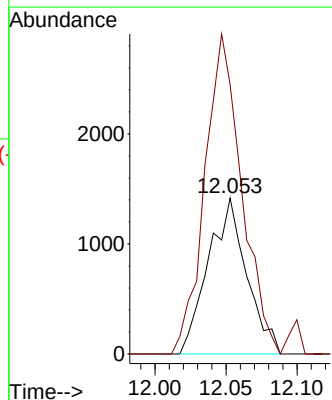
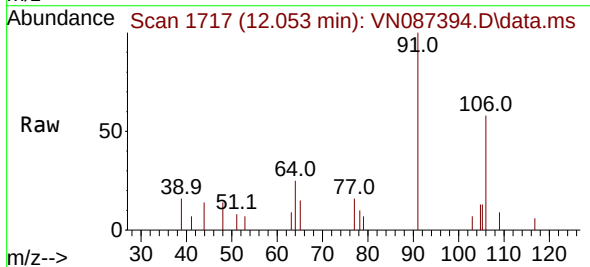
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

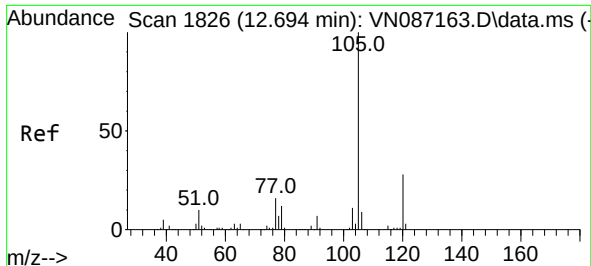
Tgt Ion:106 Resp: 2663
Ion Ratio Lower Upper
106 100
91 197.2 163.0 244.4



#68
o-Xylene
Concen: 1.102 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. -0.341 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion:106 Resp: 2663
Ion Ratio Lower Upper
106 100
91 197.2 107.1 321.1

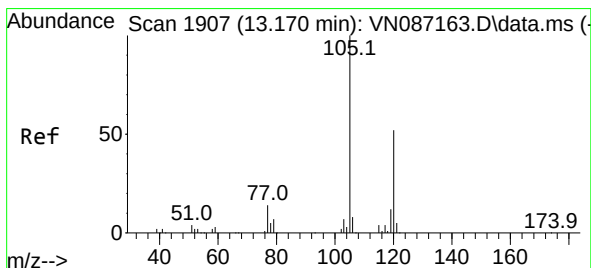
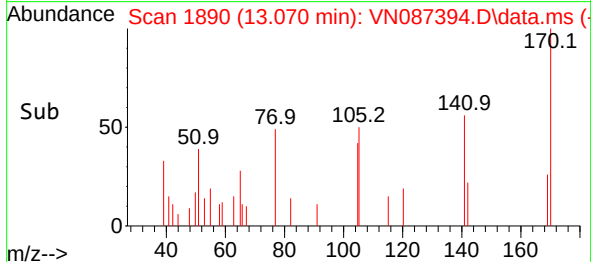
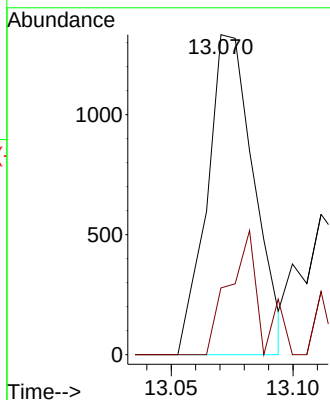
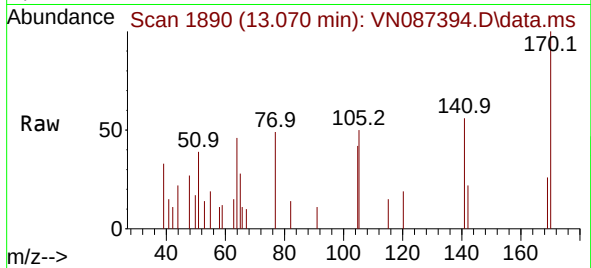




#70
Isopropylbenzene
Concen: 0.297 ug/l
RT: 13.070 min Scan# 11
Delta R.T. 0.376 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

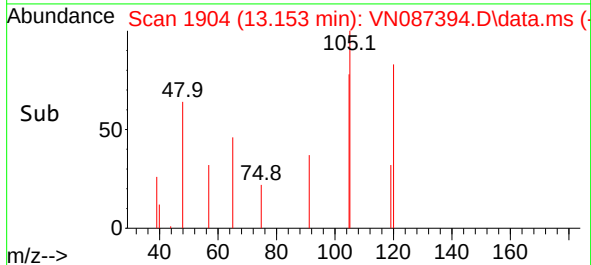
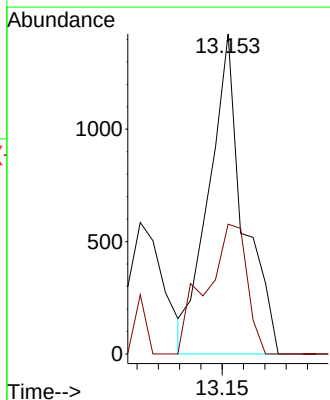
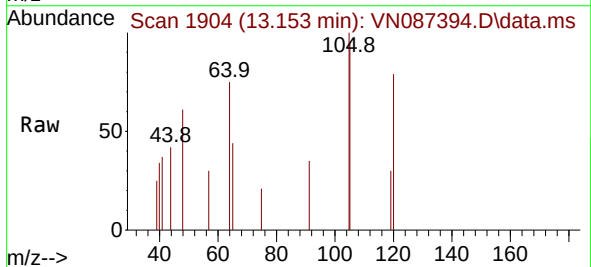
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

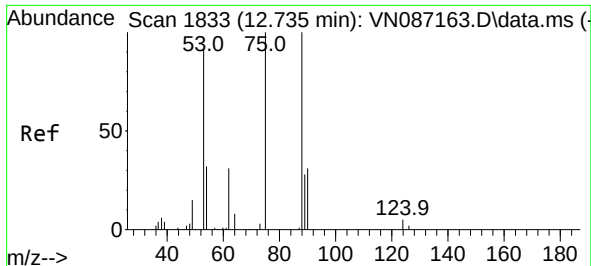
Tgt Ion:105 Resp: 1785
Ion Ratio Lower Upper
105 100
120 21.5 19.0 35.2



#76
1,3,5-Trimethylbenzene
Concen: 0.326 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.018 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion:105 Resp: 1596
Ion Ratio Lower Upper
105 100
120 35.7 0.0 100.8

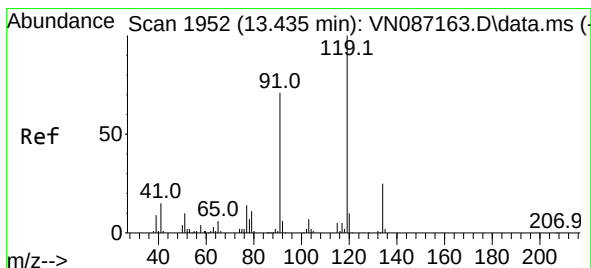
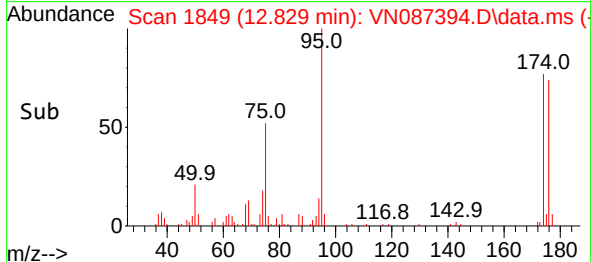
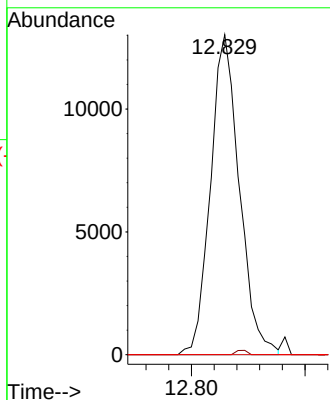
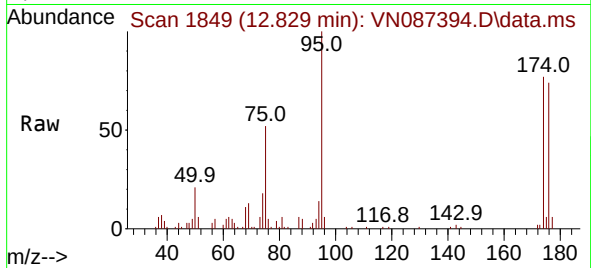




#77
 t-1,4-Dichloro-2-butene
 Concen: 27.738 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.094 min
 Lab File: VN087394.D
 Acq: 22 Jul 2025 17:07

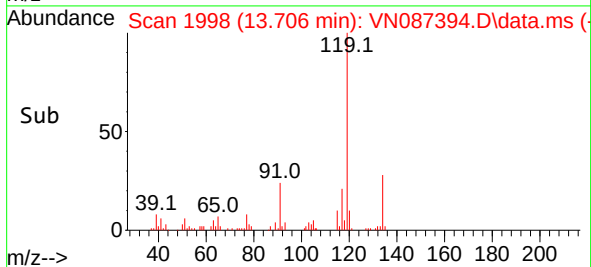
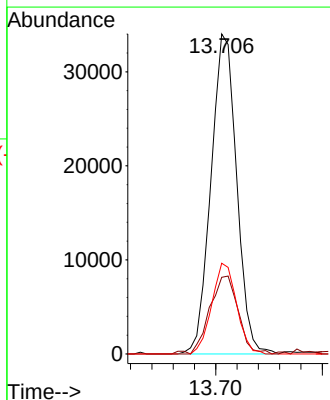
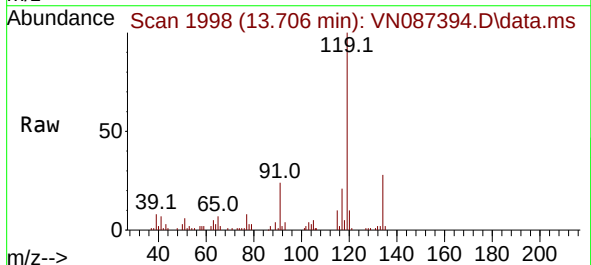
Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave (JUNE)

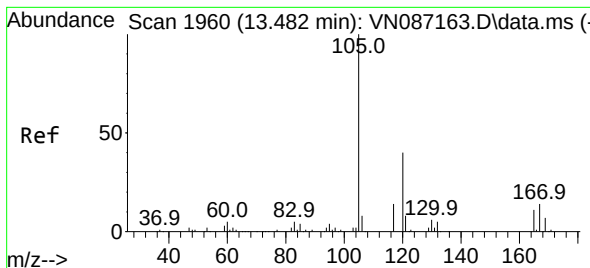
Tgt Ion: 75 Resp: 22991
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.6#
 89 0.0 22.3 66.9#



#79
 tert-butylbenzene
 Concen: 13.819 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.271 min
 Lab File: VN087394.D
 Acq: 22 Jul 2025 17:07

Tgt Ion: 119 Resp: 56929
 Ion Ratio Lower Upper
 119 100
 91 26.4 0.0 137.0
 134 27.4 0.0 49.4





#80

1,2,4-Trimethylbenzene

Concen: 0.852 ug/l

RT: 13.464 min Scan# 1957

Delta R.T. -0.018 min

Lab File: VN087394.D

Acq: 22 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

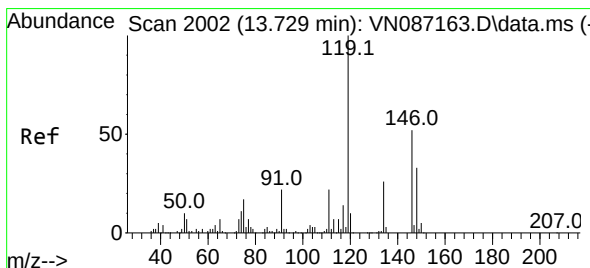
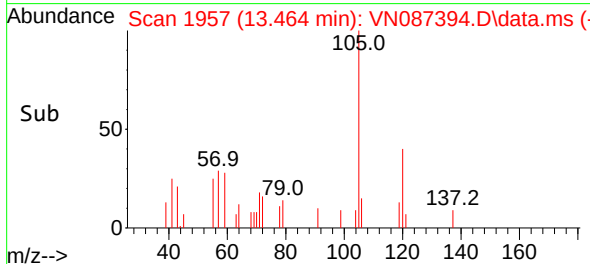
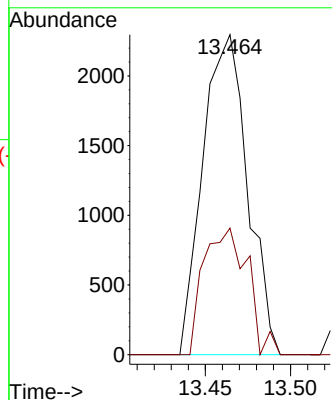
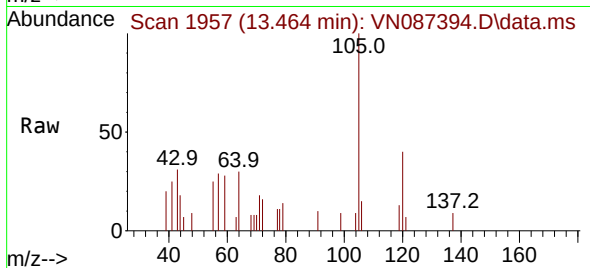
002 35th Ave (JUNE)

Tgt Ion:105 Resp: 4193

Ion Ratio Lower Upper

105 100

120 37.3 0.0 94.0



#82

p-Isopropyltoluene

Concen: 11.423 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. -0.024 min

Lab File: VN087394.D

Acq: 22 Jul 2025 17:07

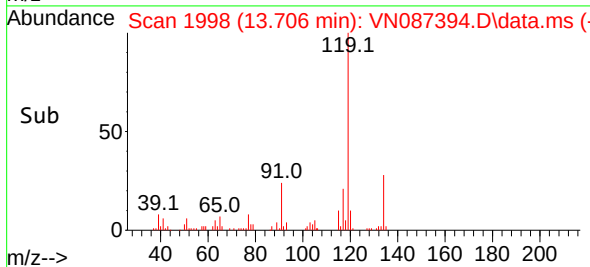
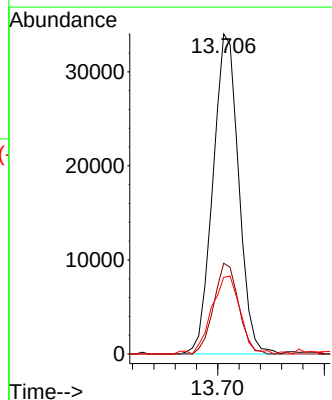
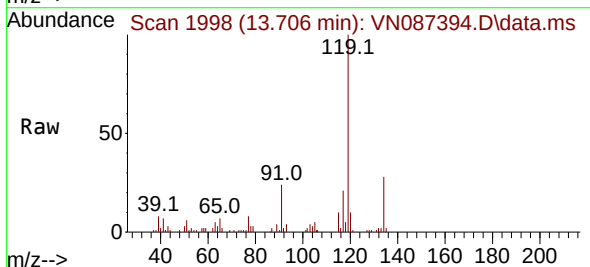
Tgt Ion:119 Resp: 56929

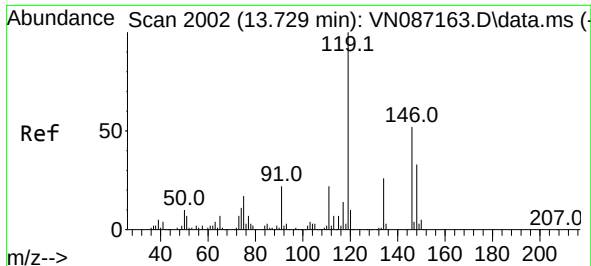
Ion Ratio Lower Upper

119 100

134 27.4 0.0 51.2

91 26.4 0.0 46.4

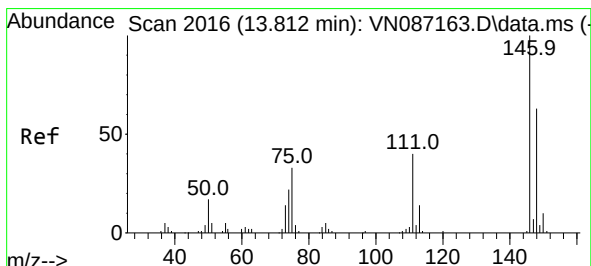
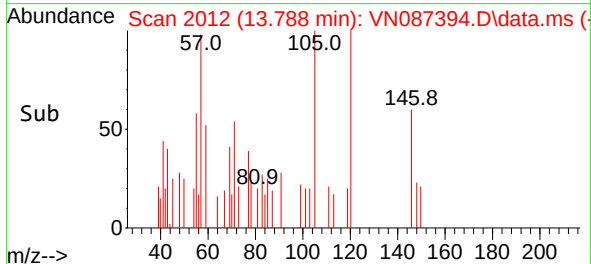
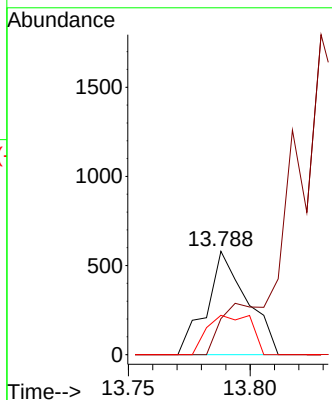
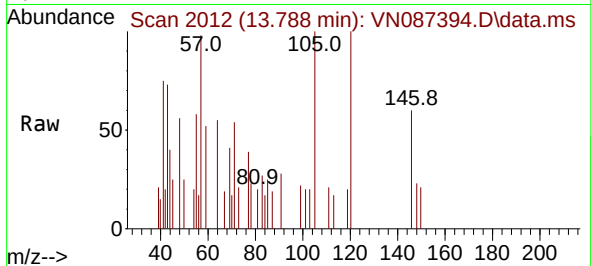




#83
1,3-Dichlorobenzene
Concen: 0.238 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.059 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

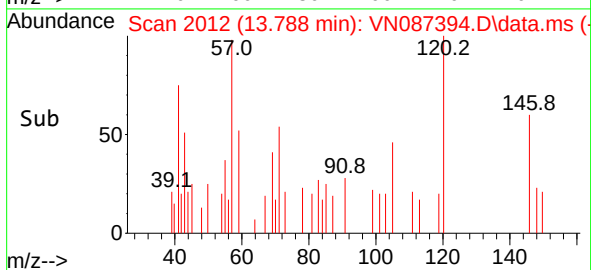
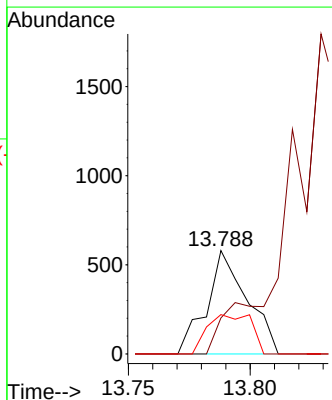
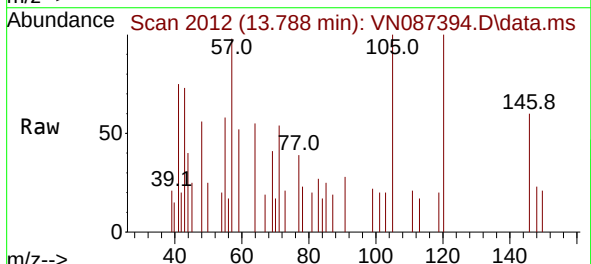
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)

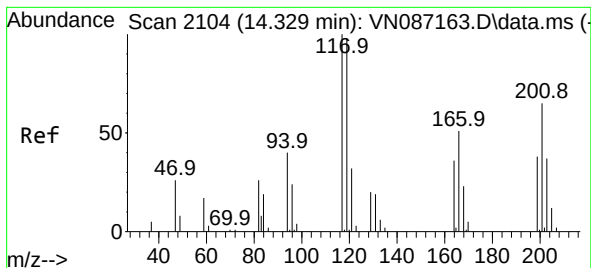
Tgt Ion	146	Resp	669
Ion	Ratio	Lower	Upper
146	100		
111	54.0	21.1	63.3
148	41.6	31.6	94.8



#84
1,4-Dichlorobenzene
Concen: 0.236 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.024 min
Lab File: VN087394.D
Acq: 22 Jul 2025 17:07

Tgt Ion	146	Resp	669
Ion	Ratio	Lower	Upper
146	100		
111	54.0	20.1	60.2
148	41.6	31.4	94.2





#86

Hexachloroethane

Concen: 0.217 ug/l

RT: 14.382 min Scan# 2104

Delta R.T. 0.053 min

Lab File: VN087394.D

Acq: 22 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

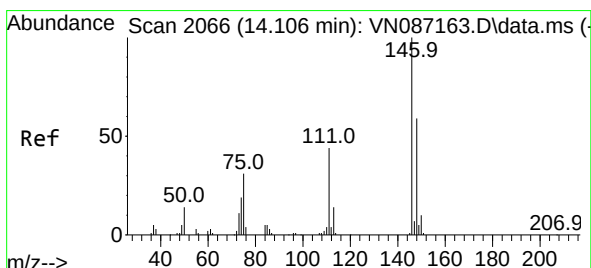
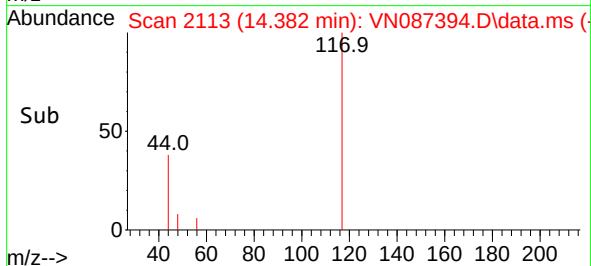
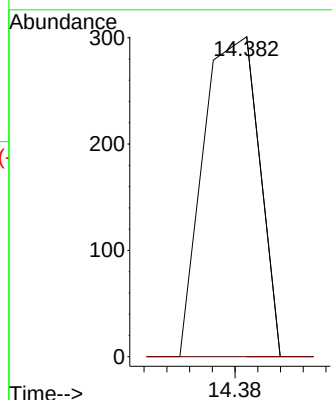
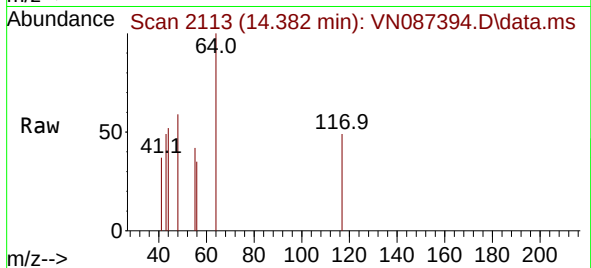
002 35th Ave (JUNE)

Tgt Ion:117 Resp: 205

Ion Ratio Lower Upper

117 100

201 0.0 30.8 92.3#



#87

1,2-Dichlorobenzene

Concen: 0.252 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.318 min

Lab File: VN087394.D

Acq: 22 Jul 2025 17:07

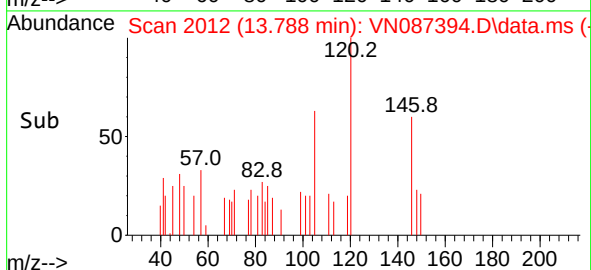
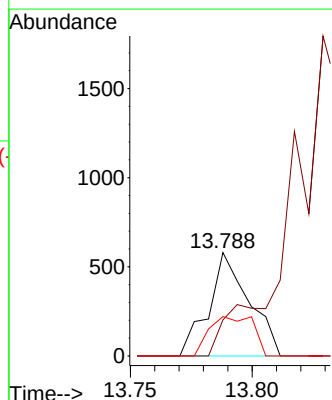
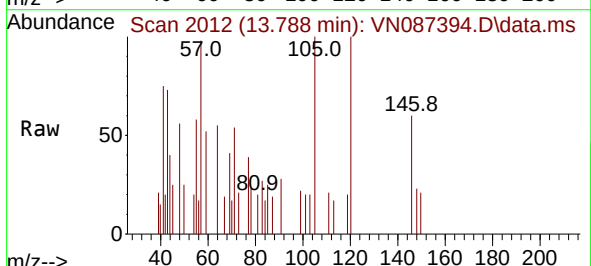
Tgt Ion:146 Resp: 669

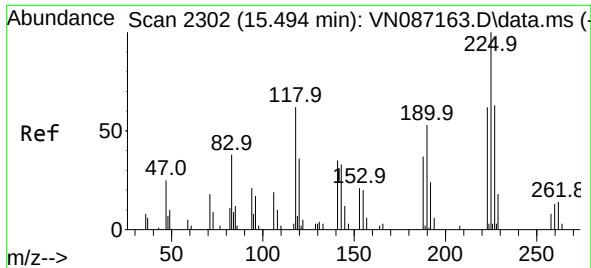
Ion Ratio Lower Upper

146 100

111 54.0 22.1 66.1

148 41.6 31.6 95.0





#90

Hexachlorobutadiene

Concen: 0.337 ug/l

RT: 15.470 min Scan# 21

Delta R.T. -0.024 min

Lab File: VN087394.D

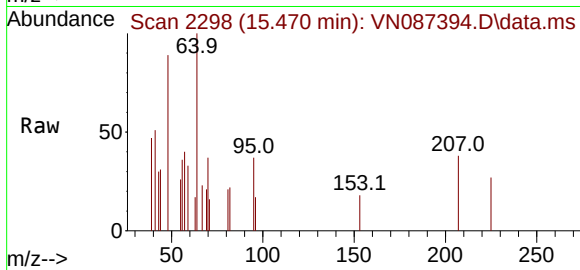
Acq: 22 Jul 2025 17:07

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave (JUNE)



Tgt Ion:	225	Resp:	150
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	134.2
227	0.0	0.0	122.6

