

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062025\
 Data File : VN087131.D
 Acq On : 20 Jun 2025 12:23
 Operator : JC\MD
 Sample : Q2362-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11

Quant Time: Jun 20 23:03:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	194096	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	387045	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	350623	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167507	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	135628	52.190	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	104.380%
35) Dibromofluoromethane	8.171	113	118536	51.679	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.360%
50) Toluene-d8	10.565	98	477328	52.568	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.140%
62) 4-Bromofluorobenzene	12.847	95	170867	50.649	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.300%

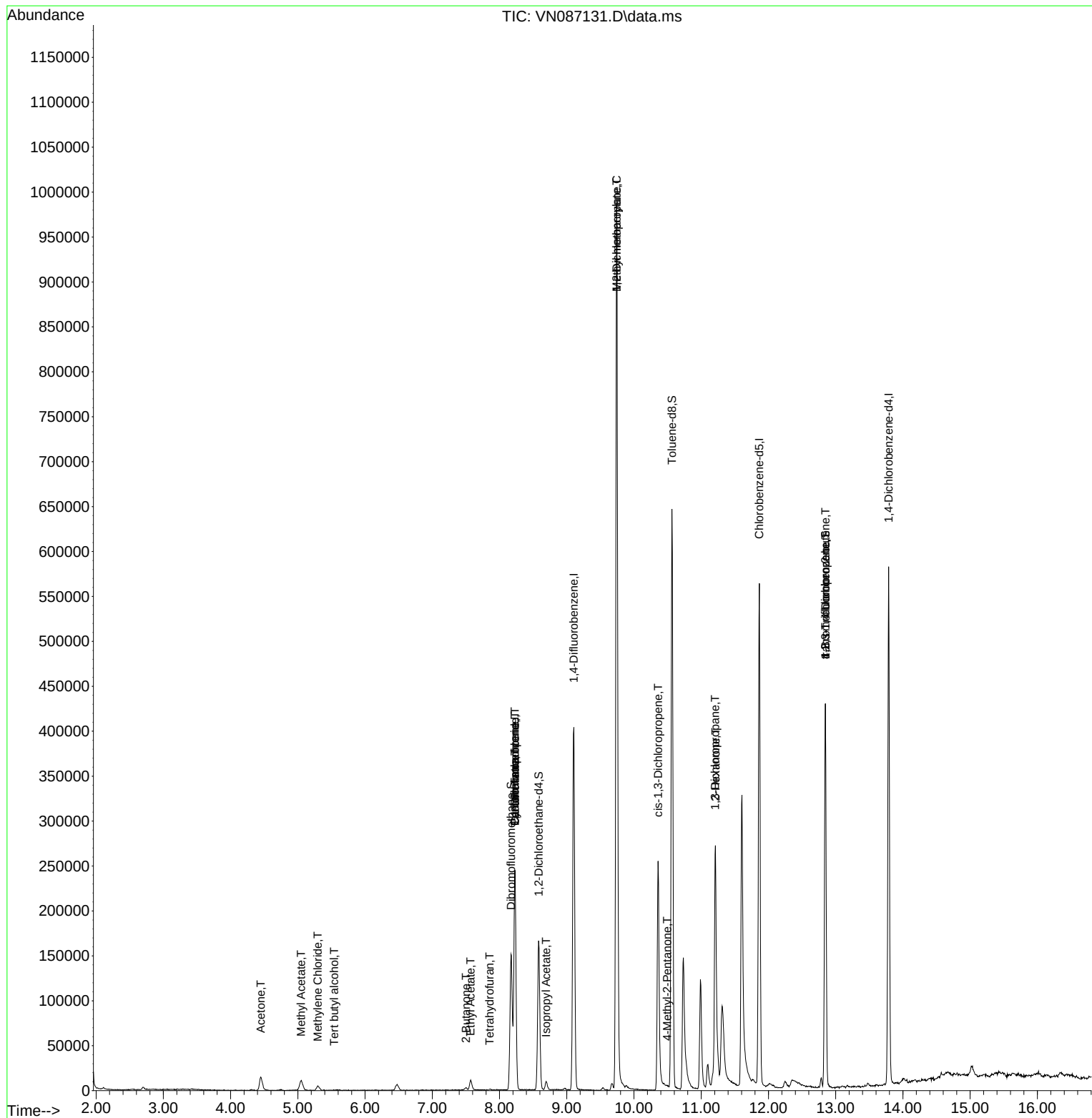
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.541	59	503	0.713	ug/l #	73
16) Acetone	4.447	43	30032	21.792	ug/l	95
18) Methyl Acetate	5.047	43	24911	6.203	ug/l	98
20) Methylene Chloride	5.294	84	4264	1.653	ug/l #	78
25) 2-Butanone	7.500	43	4662	2.081	ug/l	95
29) Tetrahydrofuran	7.853	42	826	0.566	ug/l #	56
31) Cyclohexane	8.229	56	3288	0.780	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	14286	4.180	ug/l #	49
37) Ethyl Acetate	7.571	43	16740	3.847	ug/l #	95
38) Carbon Tetrachloride	8.229	117	19203	5.723	ug/l #	17
43) Isopropyl Acetate	8.694	43	11127	1.593	ug/l	92
45) 1,2-Dichloropropane	9.741	63	1411	0.519	ug/l #	43
48) Methyl methacrylate	9.741	41	83038	25.835	ug/l #	35
51) 4-Methyl-2-Pentanone	10.494	43	3154	0.750	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	61632	13.863	ug/l #	54
57) 1,3-Dichloropropane	11.206	76	3947	0.866	ug/l #	43
59) 2-Hexanone	11.212	43	52651	19.443	ug/l #	47
76) 1,2,3-Trichloropropane	12.847	75	77793	19.538	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77793	44.975	ug/l #	16

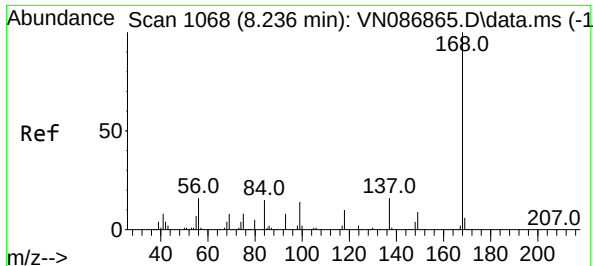
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 20 23:03:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

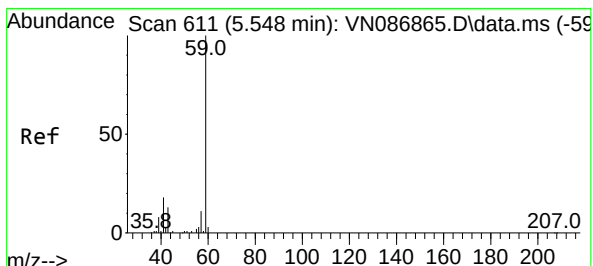
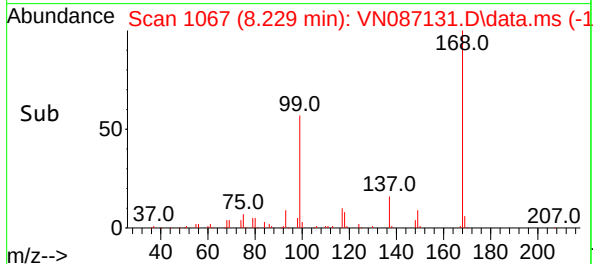
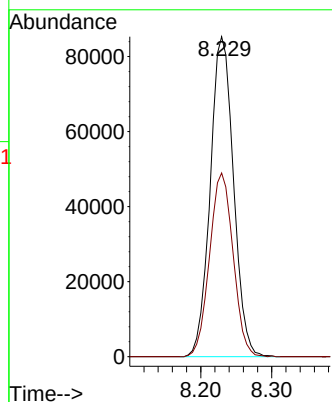
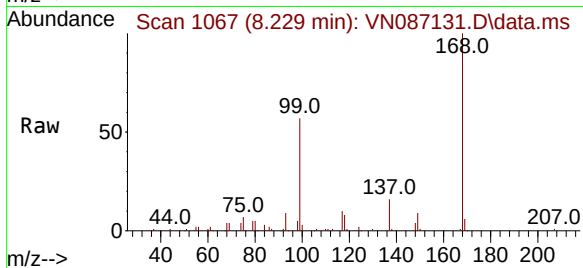




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.007 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

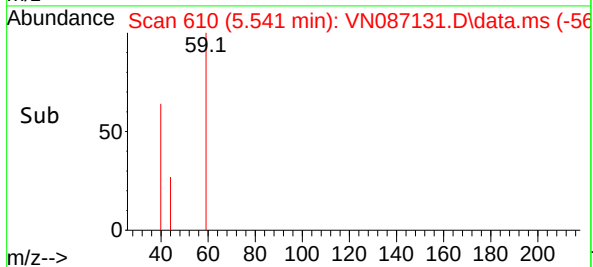
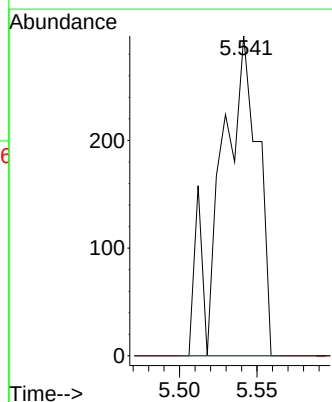
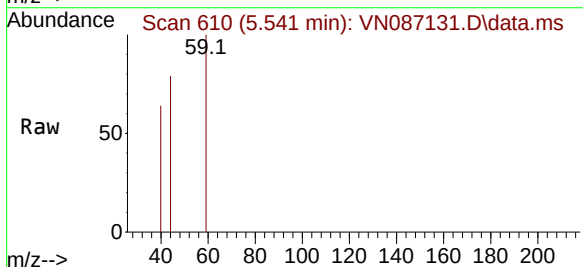
Instrument :
MSVOA_N
ClientSampleId :
TP-11

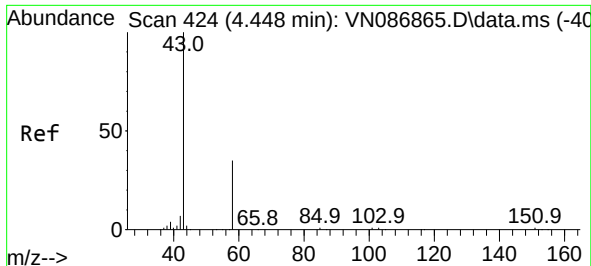
Tgt Ion:168 Resp: 194096
Ion Ratio Lower Upper
168 100
99 57.4 49.1 73.7



#11
Tert butyl alcohol
Concen: 0.713 ug/l
RT: 5.541 min Scan# 610
Delta R.T. -0.006 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

Tgt Ion: 59 Resp: 503
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

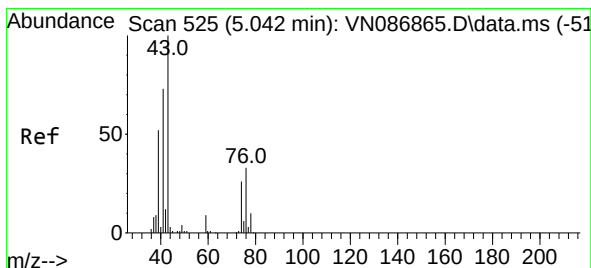
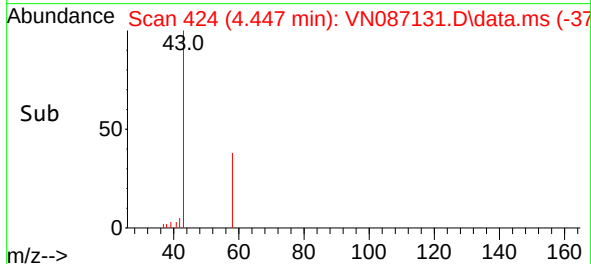
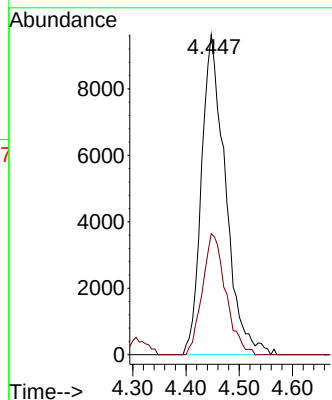
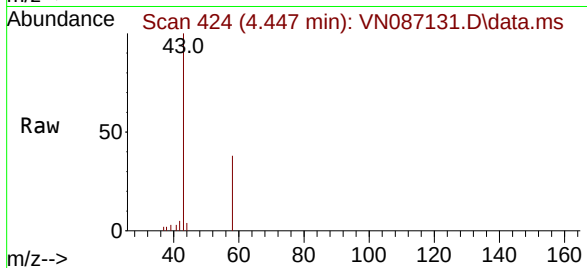




#16
Acetone
Concen: 21.792 ug/l
RT: 4.447 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

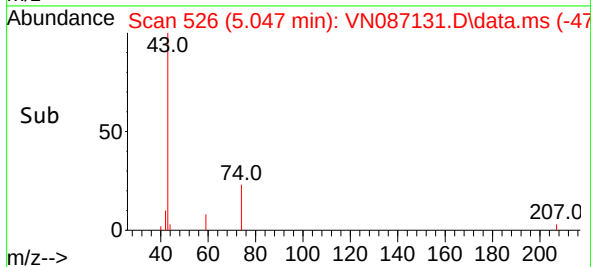
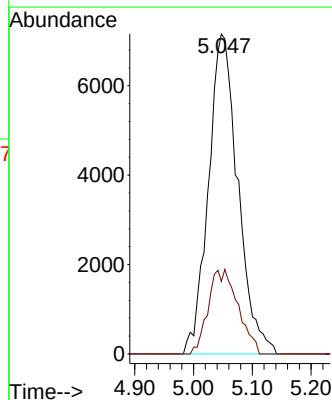
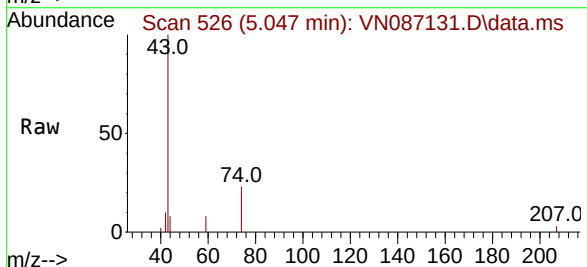
Instrument :
MSVOA_N
ClientSampleId :
TP-11

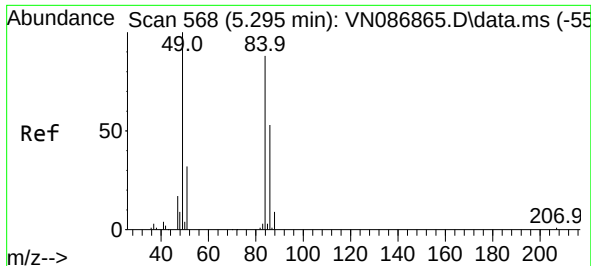
Tgt Ion: 43 Resp: 30032
Ion Ratio Lower Upper
43 100
58 37.8 28.0 42.0



#18
Methyl Acetate
Concen: 6.203 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

Tgt Ion: 43 Resp: 24911
Ion Ratio Lower Upper
43 100
74 26.7 20.7 31.1

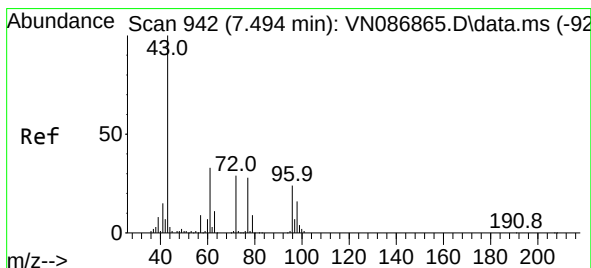
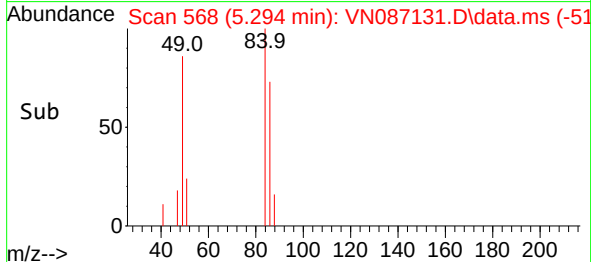
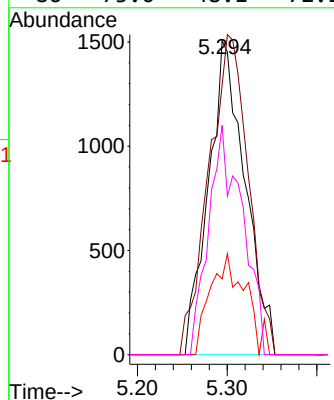
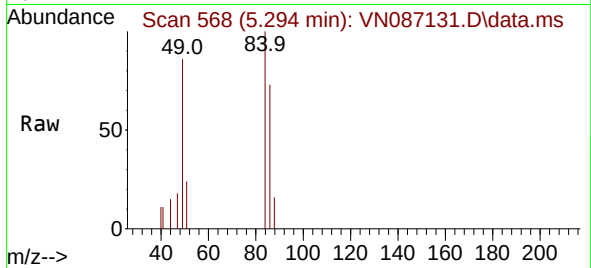




#20
Methylene Chloride
Concen: 1.653 ug/l
RT: 5.294 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

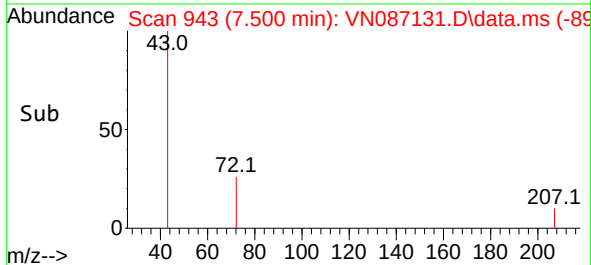
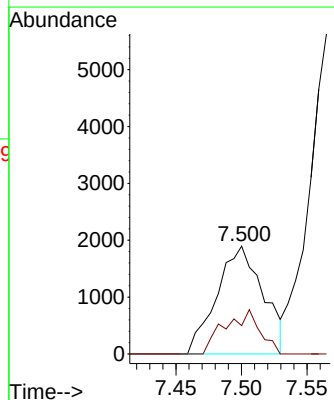
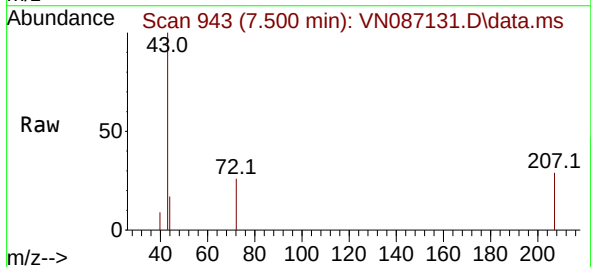
Instrument :
MSVOA_N
ClientSampleId :
TP-11

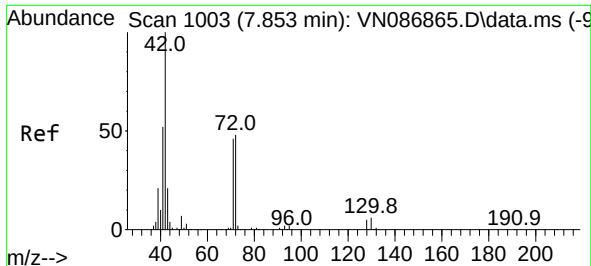
Tgt Ion:	84	Resp:	4264
Ion	Ratio	Lower	Upper
84	100		
49	85.9	90.5	135.7#
51	24.1	28.5	42.7#
86	73.0	48.1	72.1#



#25
2-Butanone
Concen: 2.081 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

Tgt Ion:	43	Resp:	4662
Ion	Ratio	Lower	Upper
43	100		
72	26.3	23.0	34.6





#29

Tetrahydrofuran

Concen: 0.566 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. -0.000 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

TP-11

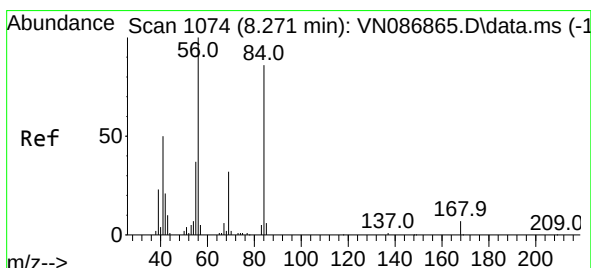
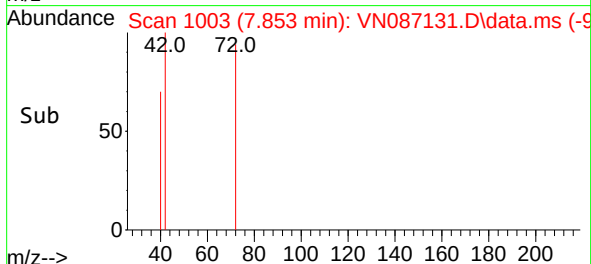
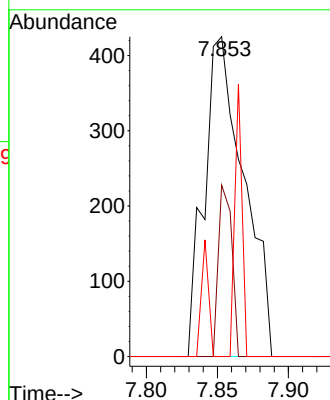
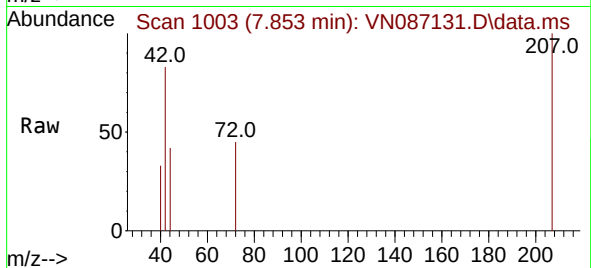
Tgt Ion: 42 Resp: 826

Ion Ratio Lower Upper

42 100

72 18.0 37.8 56.6#

71 15.5 35.6 53.4#



#31

Cyclohexane

Concen: 0.780 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.041 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

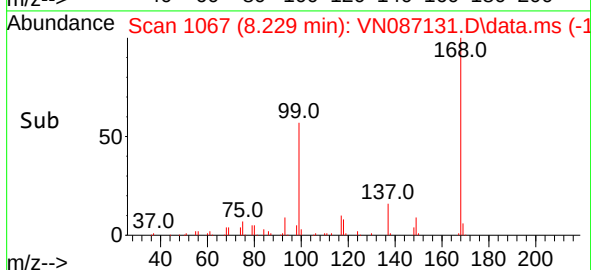
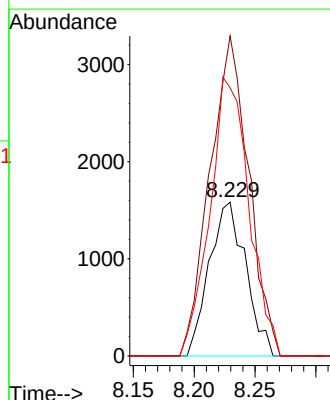
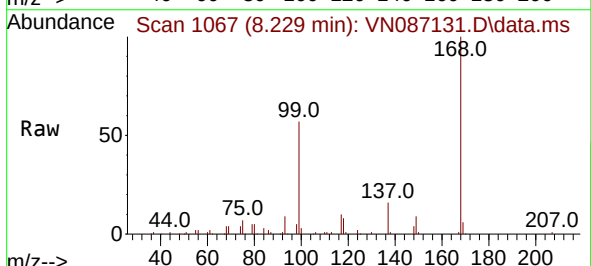
Tgt Ion: 56 Resp: 3288

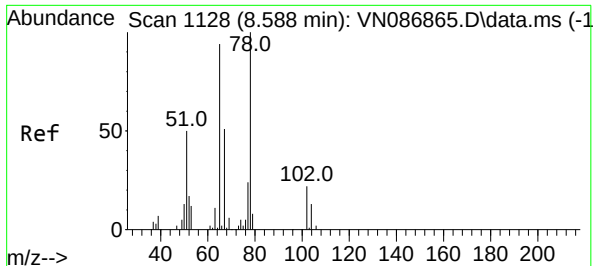
Ion Ratio Lower Upper

56 100

69 208.2 25.4 38.0#

84 174.5 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 52.190 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

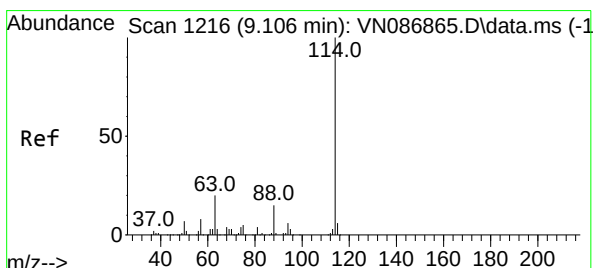
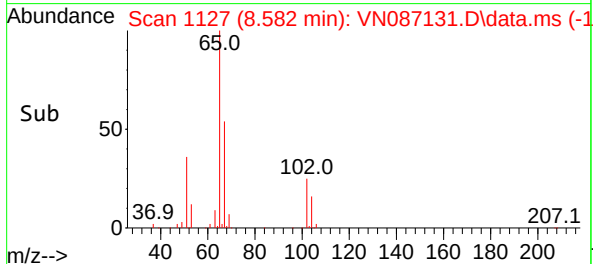
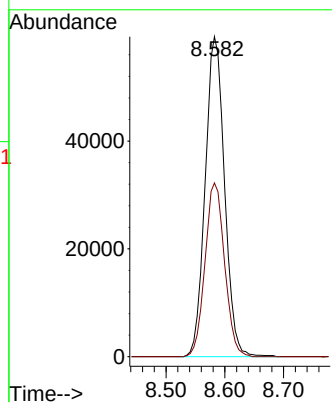
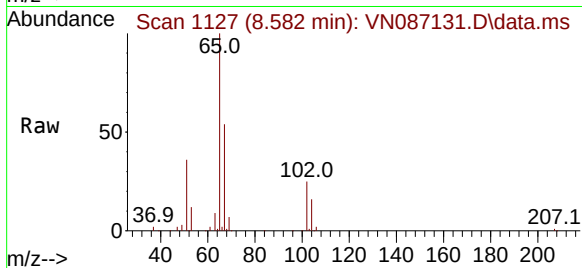
TP-11

Tgt Ion: 65 Resp: 135628

Ion Ratio Lower Upper

65 100

67 54.8 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

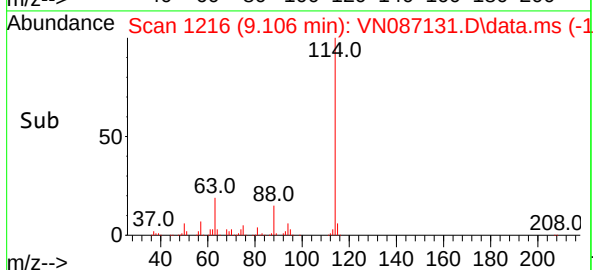
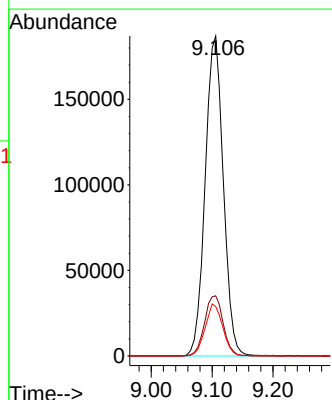
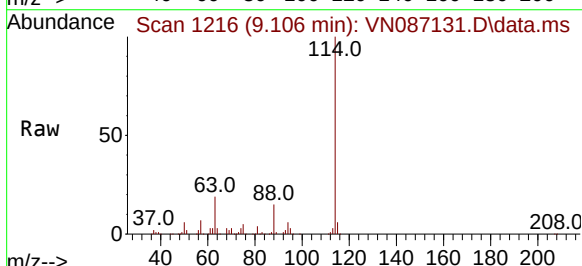
Tgt Ion: 114 Resp: 387045

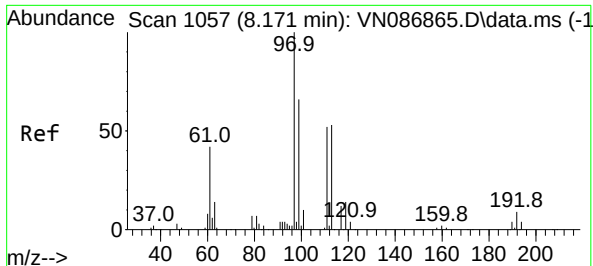
Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.6

88 15.5 0.0 30.2





#35

Dibromofluoromethane

Concen: 51.679 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

TP-11

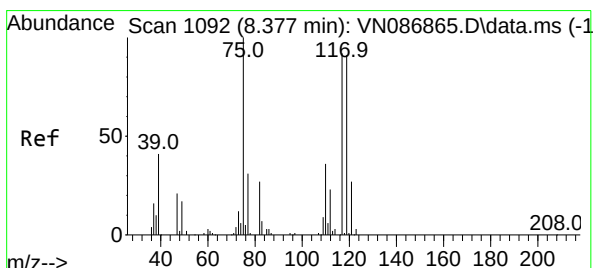
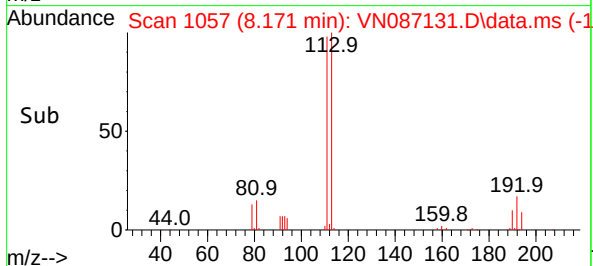
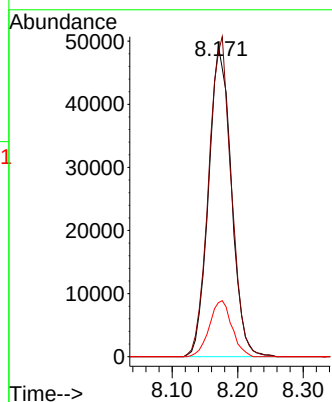
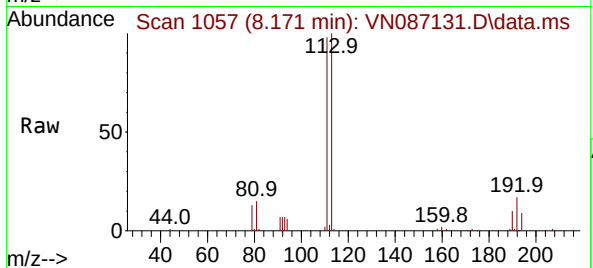
Tgt Ion:113 Resp: 118536

Ion Ratio Lower Upper

113 100

111 102.6 84.2 126.2

192 17.8 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.180 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

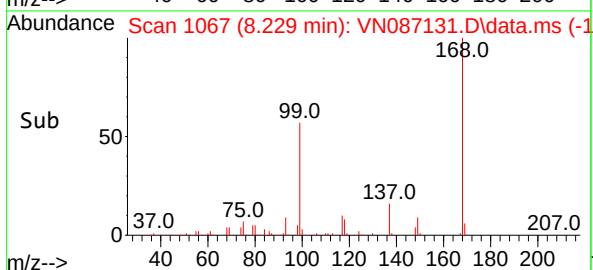
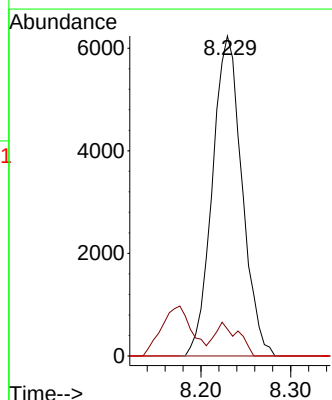
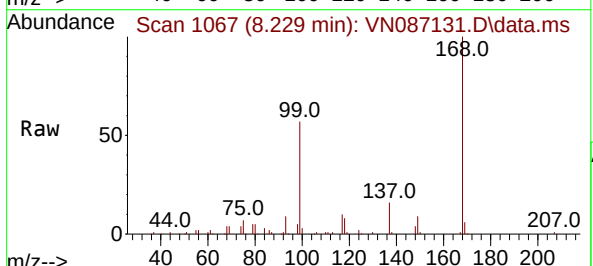
Tgt Ion: 75 Resp: 14286

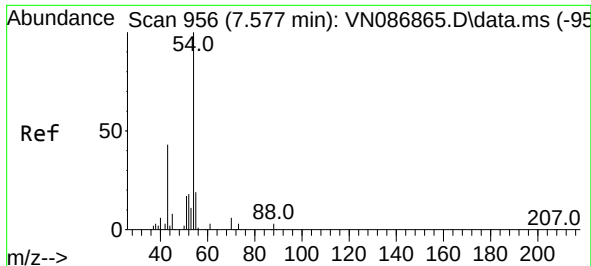
Ion Ratio Lower Upper

75 100

110 8.5 17.6 52.9#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 3.847 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

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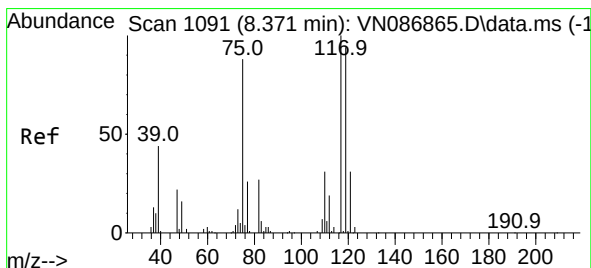
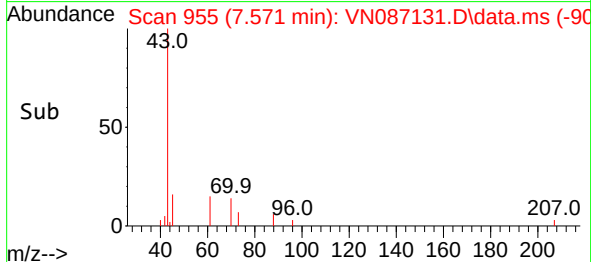
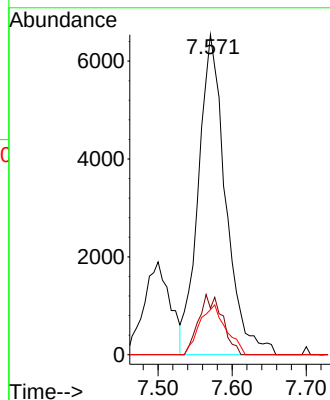
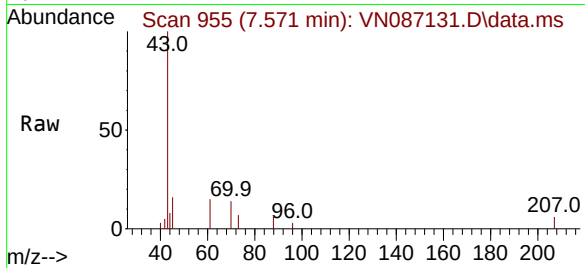
Tgt Ion: 43 Resp: 16740

Ion Ratio Lower Upper

43 100

61 16.4 12.1 18.1

70 15.1 9.8 14.6#



#38

Carbon Tetrachloride

Concen: 5.723 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

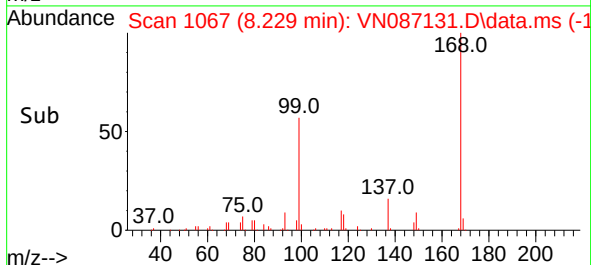
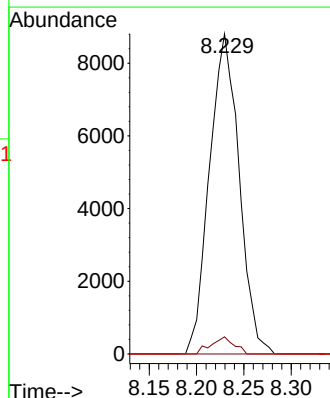
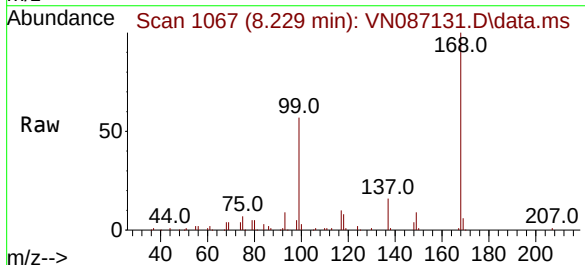
Tgt Ion: 117 Resp: 19203

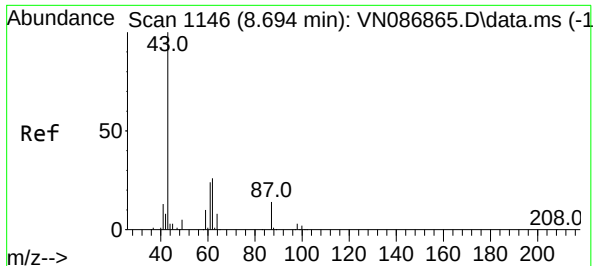
Ion Ratio Lower Upper

117 100

119 5.4 75.0 112.6#

121 0.0 24.9 37.3#

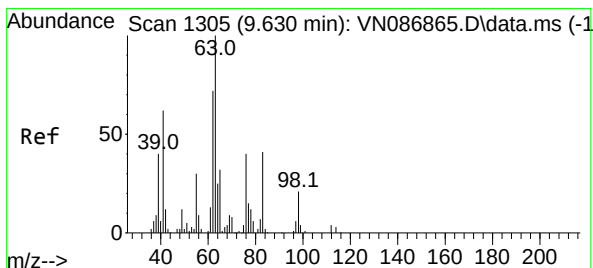
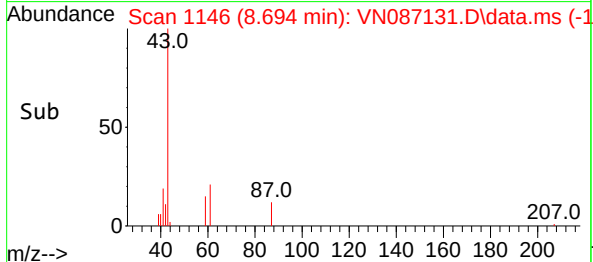
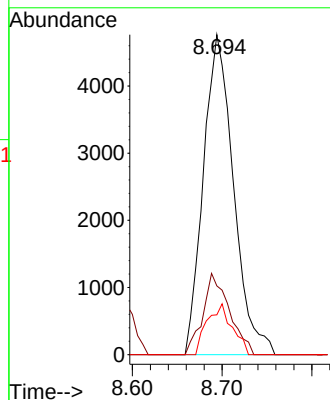
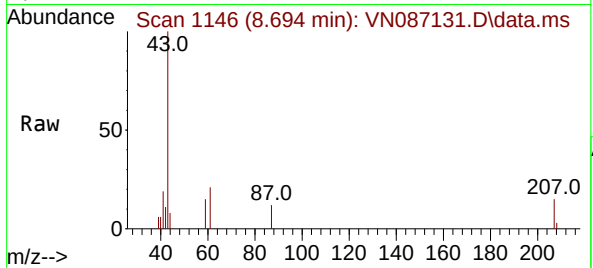




#43
Isopropyl Acetate
Concen: 1.593 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

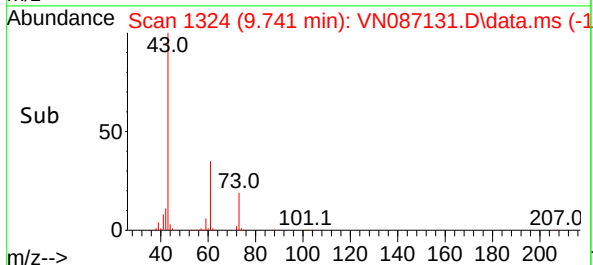
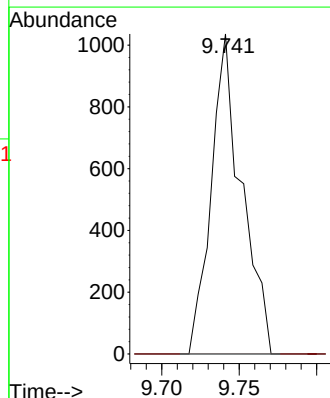
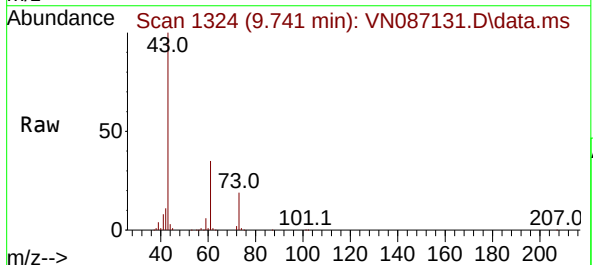
Instrument :
MSVOA_N
ClientSampleId :
TP-11

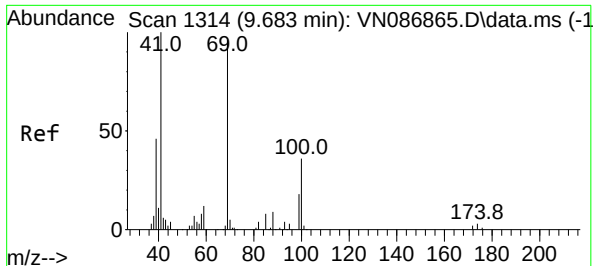
Tgt Ion: 43 Resp: 11127
Ion Ratio Lower Upper
43 100
61 22.3 22.1 33.1
87 13.2 11.8 17.6



#45
1,2-Dichloropropane
Concen: 0.519 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.111 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

Tgt Ion: 63 Resp: 1411
Ion Ratio Lower Upper
63 100
65 0.0 25.5 38.3#

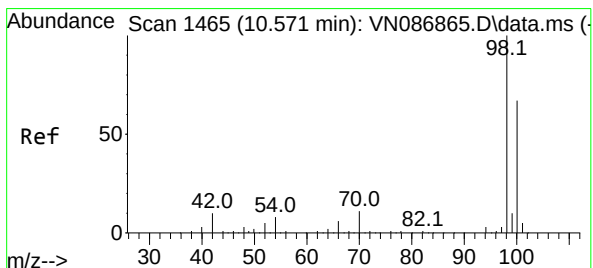
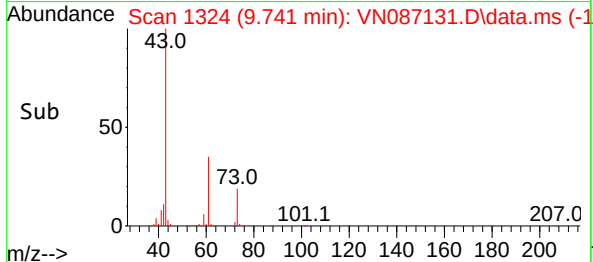
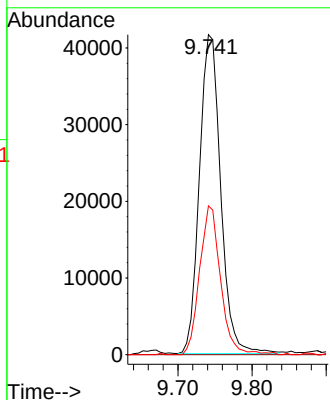
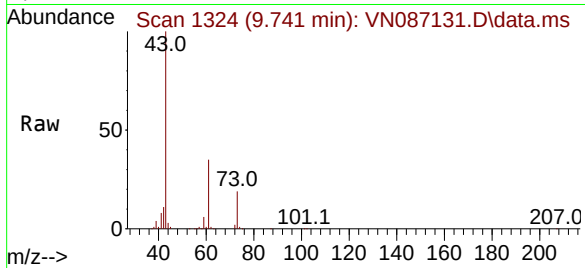




#48
Methyl methacrylate
Concen: 25.835 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

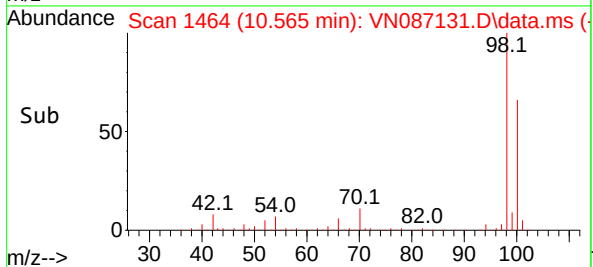
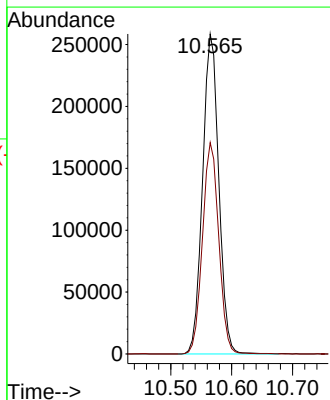
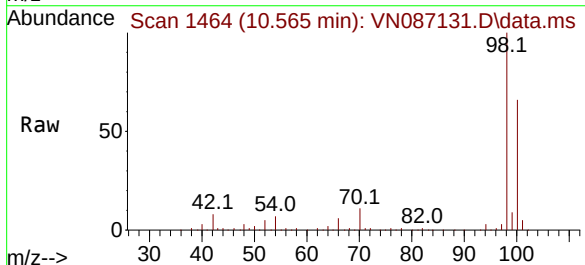
Instrument :
MSVOA_N
ClientSampleId :
TP-11

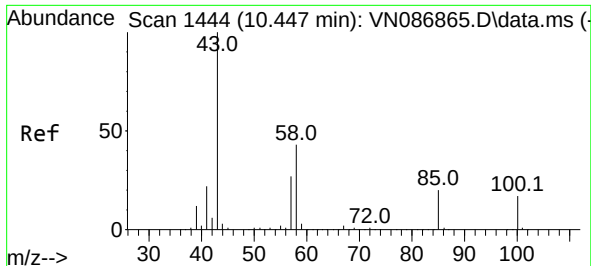
Tgt Ion: 41 Resp: 83038
Ion Ratio Lower Upper
41 100
69 0.0 74.6 112.0#
39 46.0 40.2 60.4



#50
Toluene-d8
Concen: 52.568 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

Tgt Ion: 98 Resp: 477328
Ion Ratio Lower Upper
98 100
100 66.2 53.4 80.0

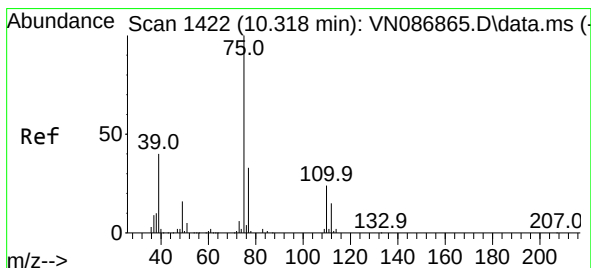
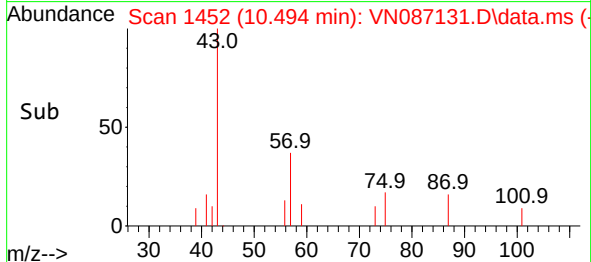
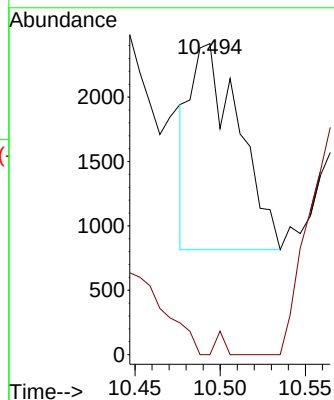
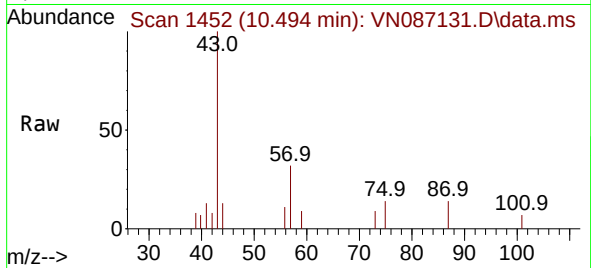




#51
4-Methyl-2-Pentanone
Concen: 0.750 ug/l
RT: 10.494 min Scan# 1444
Delta R.T. 0.047 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

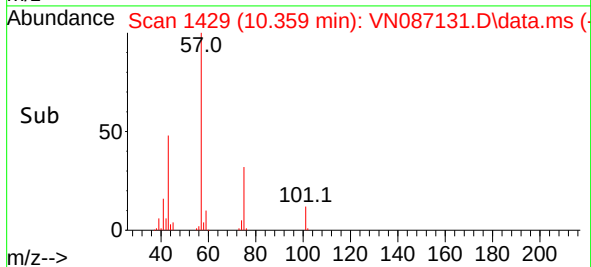
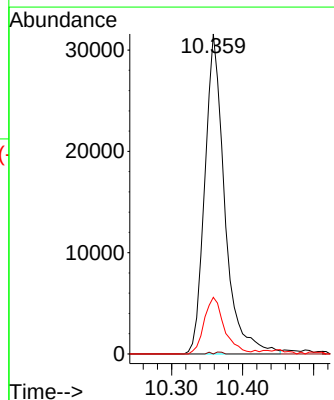
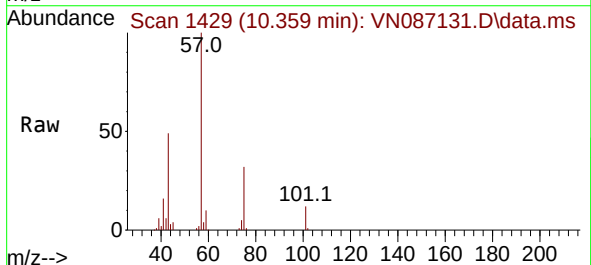
Instrument :
MSVOA_N
ClientSampleId :
TP-11

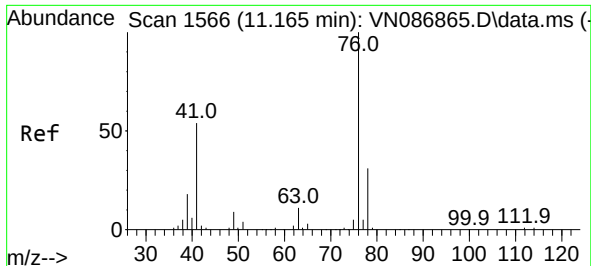
Tgt Ion: 43 Resp: 3154
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.4#



#54
cis-1,3-Dichloropropene
Concen: 13.863 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

Tgt Ion: 75 Resp: 61632
Ion Ratio Lower Upper
75 100
77 0.0 26.2 39.4#
39 17.7 32.3 48.5#





#57

1,3-Dichloropropane

Concen: 0.866 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN087131.D

Acq: 20 Jun 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

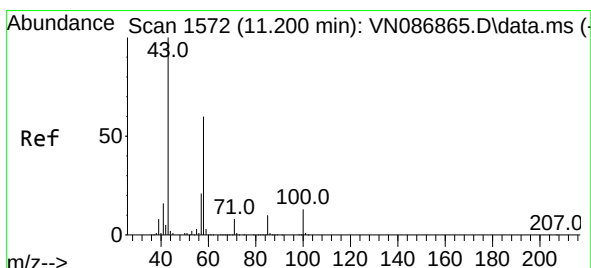
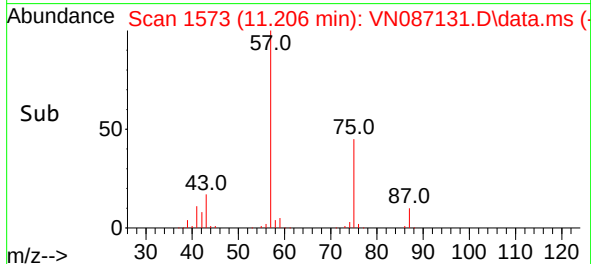
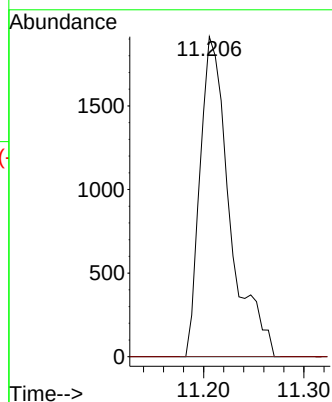
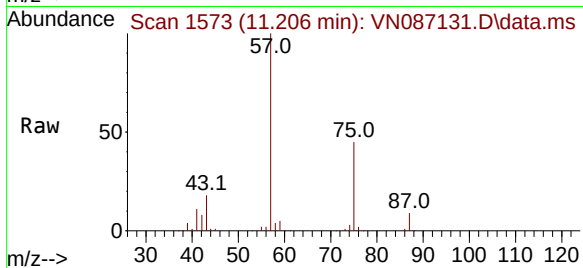
TP-11

Tgt Ion: 76 Resp: 3947

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 19.443 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.011 min

Lab File: VN087131.D

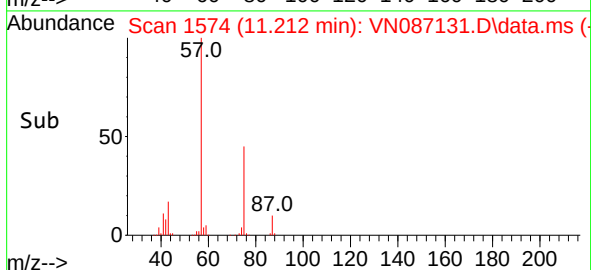
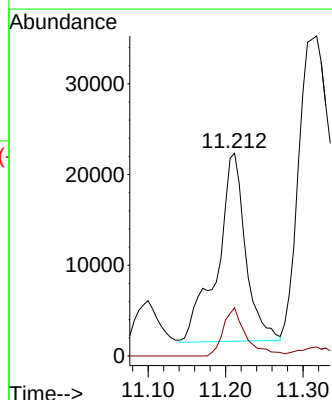
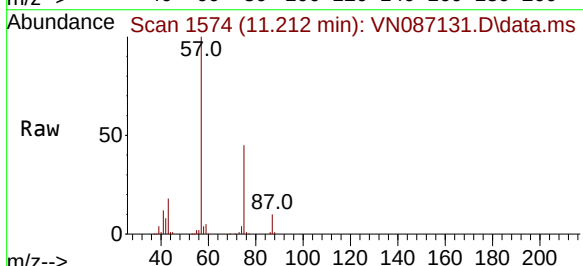
Acq: 20 Jun 2025 12:23

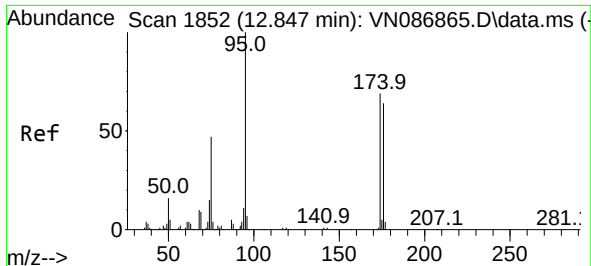
Tgt Ion: 43 Resp: 52651

Ion Ratio Lower Upper

43 100

58 20.7 30.4 91.3#

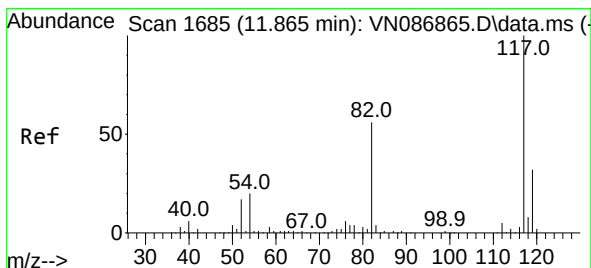
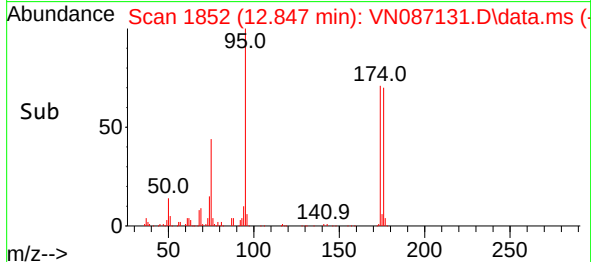
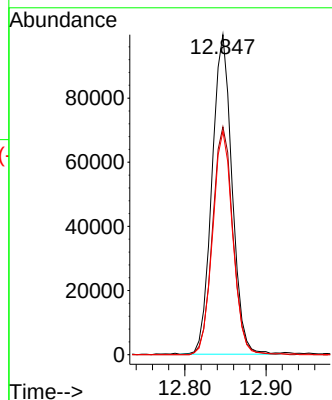
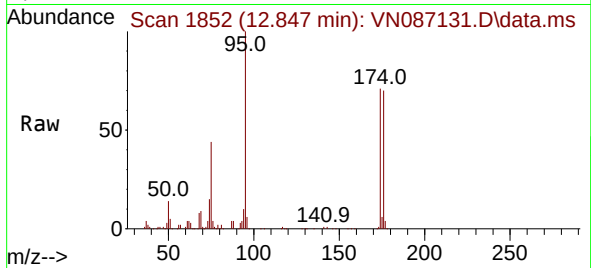




#62
4-Bromofluorobenzene
Concen: 50.649 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

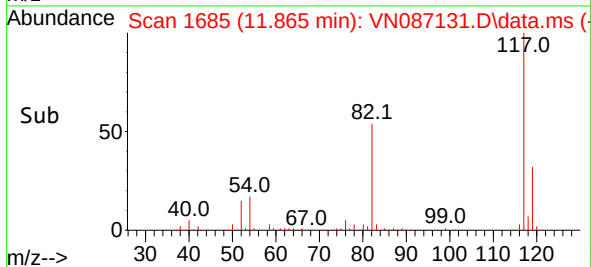
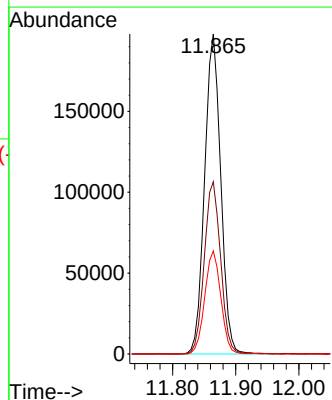
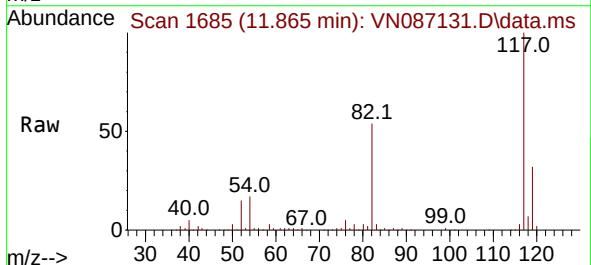
Instrument :
MSVOA_N
ClientSampleId :
TP-11

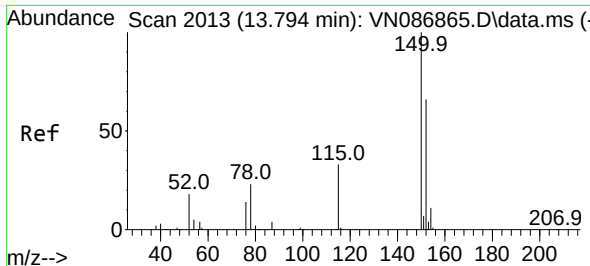
Tgt Ion: 95 Resp: 170867
Ion Ratio Lower Upper
95 100
174 72.6 0.0 141.8
176 70.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

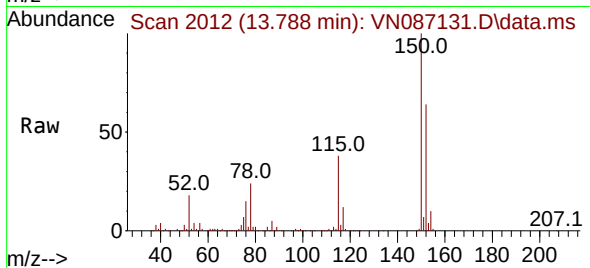
Tgt Ion: 117 Resp: 350623
Ion Ratio Lower Upper
117 100
82 53.8 44.6 67.0
119 32.2 25.5 38.3



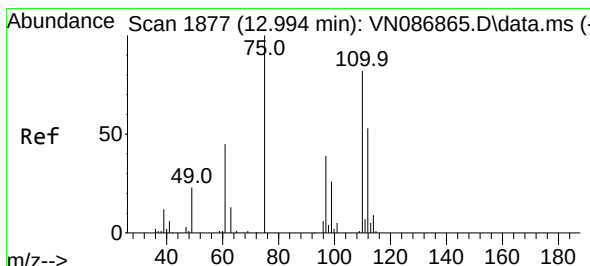
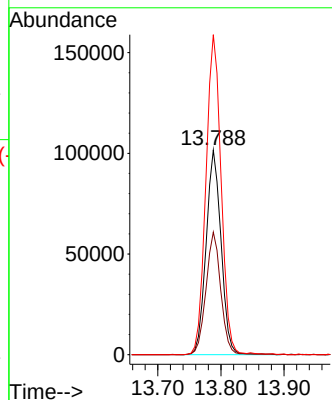
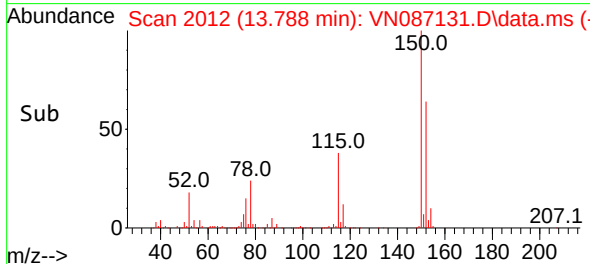


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

Instrument :
MSVOA_N
ClientSampleId :
TP-11

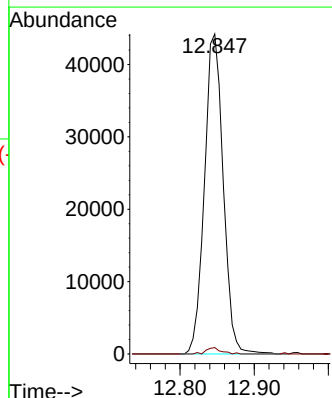
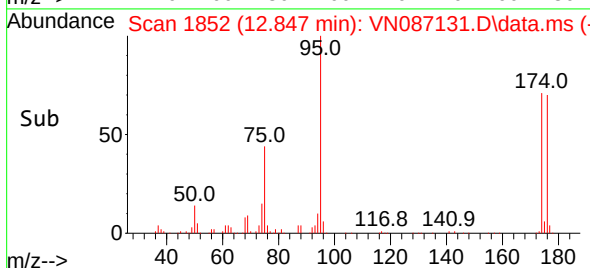
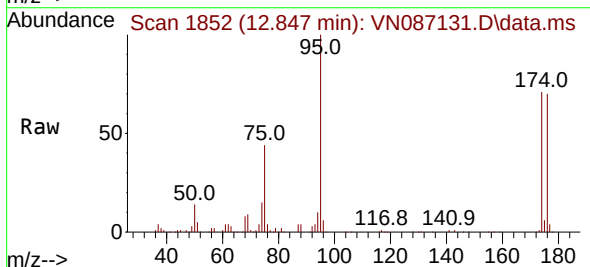


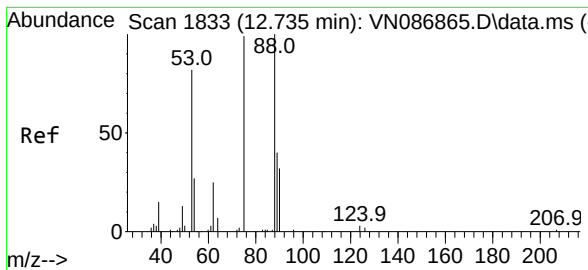
Tgt Ion:152 Resp: 167507
Ion Ratio Lower Upper
152 100
115 59.3 30.1 90.5
150 158.3 0.0 345.0



#76
1,2,3-Trichloropropane
Concen: 19.538 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087131.D
Acq: 20 Jun 2025 12:23

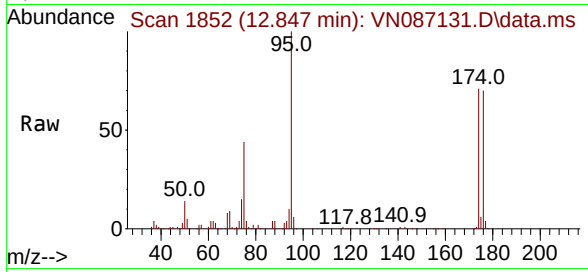
Tgt Ion: 75 Resp: 77793
Ion Ratio Lower Upper
75 100
77 1.6 79.3 237.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 44.975 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.111 min
 Lab File: VN087131.D
 Acq: 20 Jun 2025 12:23

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11



Tgt Ion: 75 Resp: 77793
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.6 99.8#
 89 0.0 36.7 55.1#

