

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086699.D
 Acq On : 19 May 2025 19:05
 Operator : JC\MD
 Sample : PB168034ZHE#16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#16

Quant Time: May 20 03:23:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

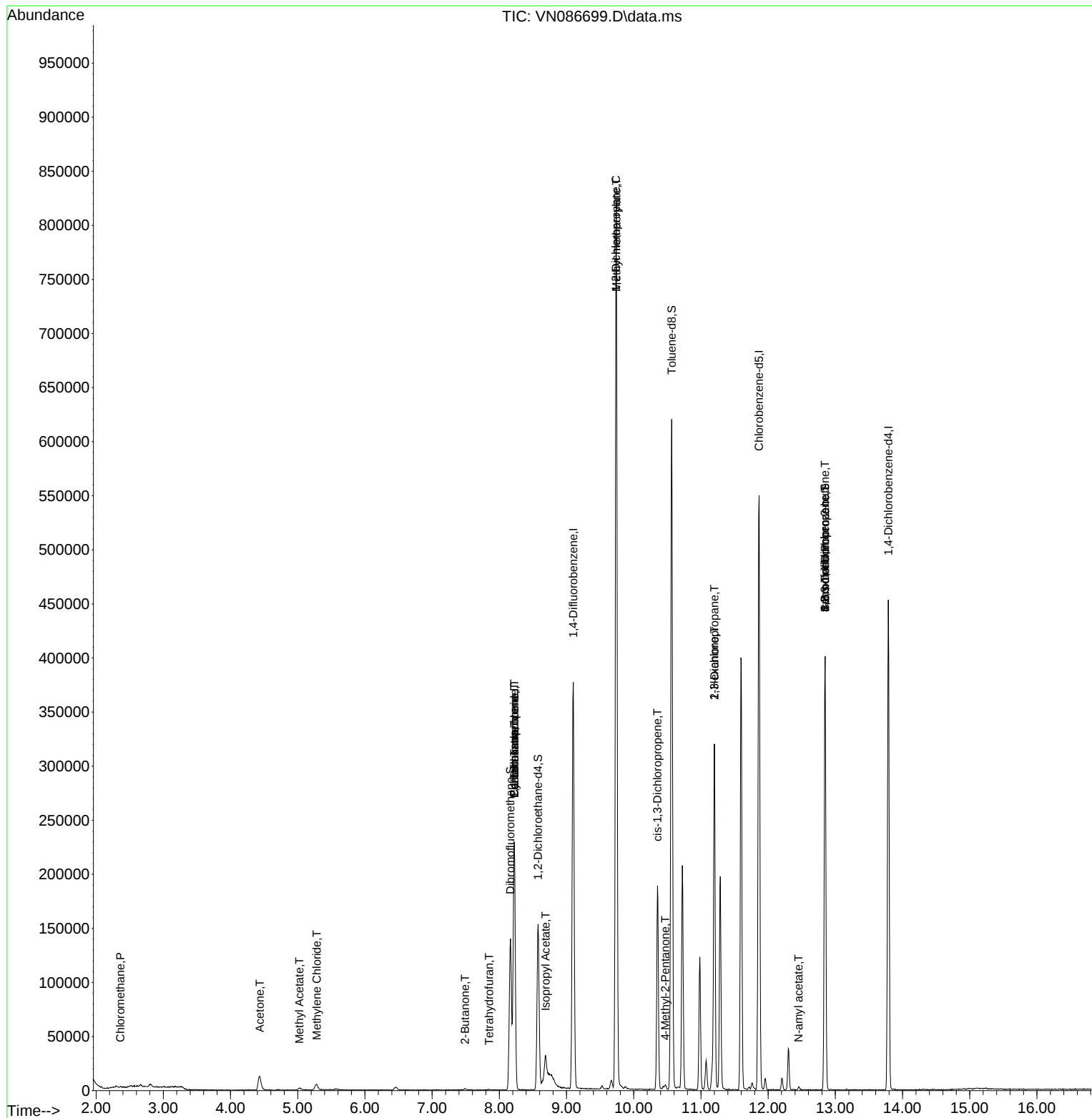
Internal Standards						
1) Pentafluorobenzene	8.224	168	171807	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	336700	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	325897	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126604	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	125936	53.047	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.100%			
35) Dibromofluoromethane	8.165	113	103210	51.471	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.940%			
50) Toluene-d8	10.565	98	439776	52.924	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.840%			
62) 4-Bromofluorobenzene	12.847	95	147259	50.189	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.380%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	615	0.219	ug/l	100
16) Acetone	4.436	43	26206	29.509	ug/l	99
18) Methyl Acetate	5.024	43	4181	1.682	ug/l #	77
20) Methylene Chloride	5.283	84	4381	1.869	ug/l	98
25) 2-Butanone	7.489	43	2621	1.910	ug/l #	88
29) Tetrahydrofuran	7.847	42	523	0.584	ug/l #	38
31) Cyclohexane	8.224	56	3834	1.076	ug/l #	29
36) 1,1-Dichloropropene	8.224	75	14389	4.865	ug/l #	48
38) Carbon Tetrachloride	8.224	117	17584	6.034	ug/l #	15
43) Isopropyl Acetate	8.688	43	78208	13.057	ug/l #	66
45) 1,2-Dichloropropane	9.735	63	1044	0.455	ug/l #	42
48) Methyl methacrylate	9.741	41	71390	30.759	ug/l #	37
51) 4-Methyl-2-Pentanone	10.471	43	6102	2.020	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	34862	9.465	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	3669	0.952	ug/l #	42
59) 2-Hexanone	11.200	43	59362	26.913	ug/l #	41
71) Bromoform	12.847	173	786	0.479	ug/l #	1
74) N-amyl acetate	12.453	43	2756	0.675	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	73084	25.525	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	73084	64.416	ug/l #	15

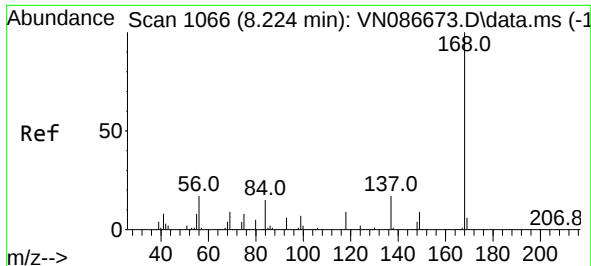
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
Data File : VN086699.D
Acq On : 19 May 2025 19:05
Operator : JC\MD
Sample : PB168034ZHE#16
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

Quant Time: May 20 03:23:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

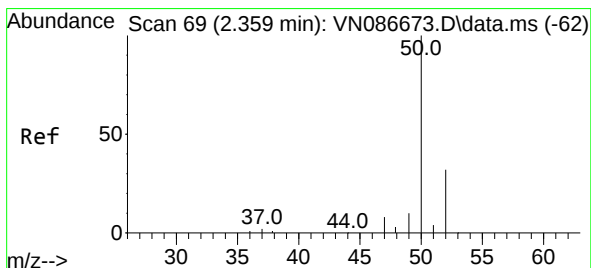
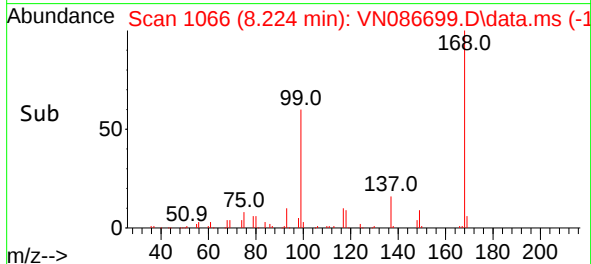
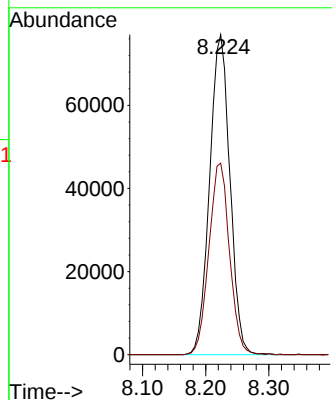
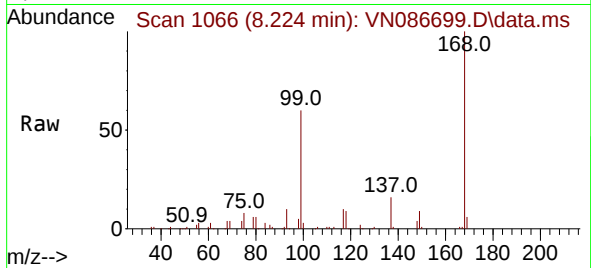




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

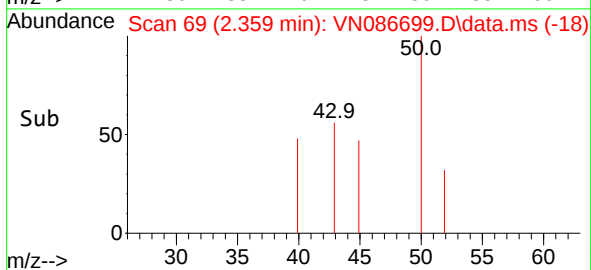
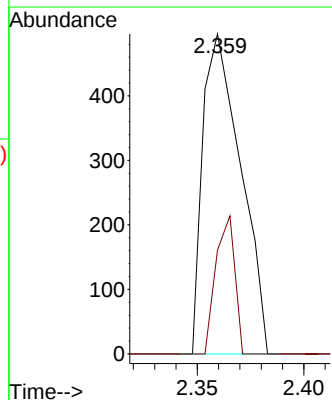
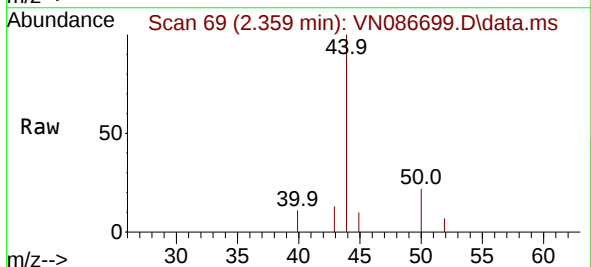
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

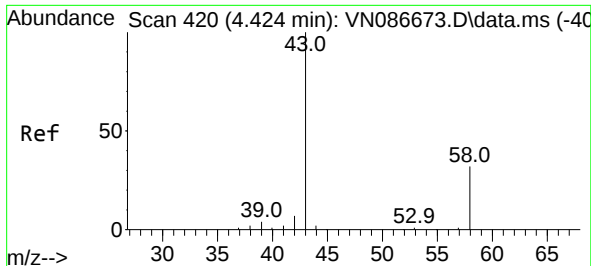
Tgt Ion:168 Resp: 171807
Ion Ratio Lower Upper
168 100
99 59.8 47.0 70.4



#3
Chloromethane
Concen: 0.219 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

Tgt Ion: 50 Resp: 615
Ion Ratio Lower Upper
50 100
52 32.5 25.9 38.9

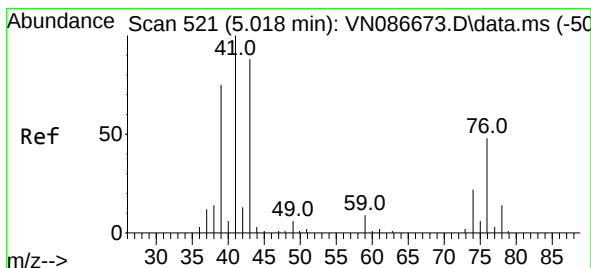
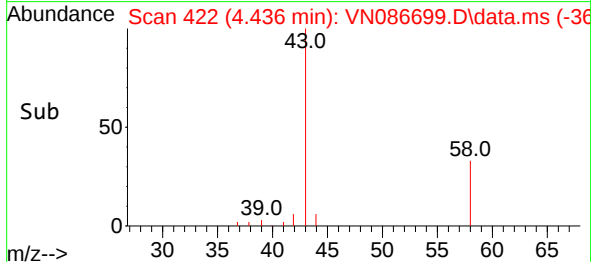
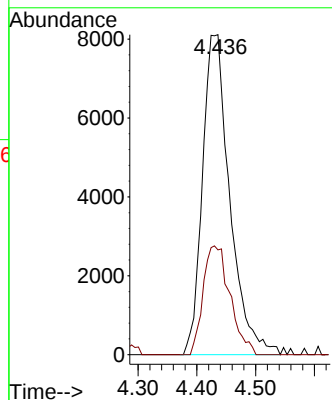
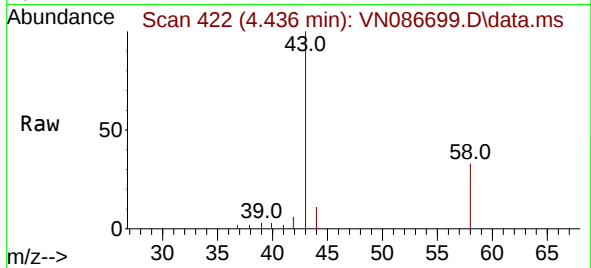




#16
Acetone
Concen: 29.509 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

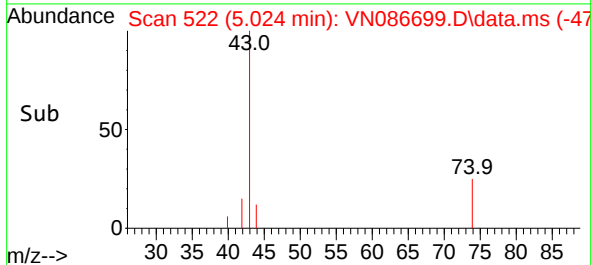
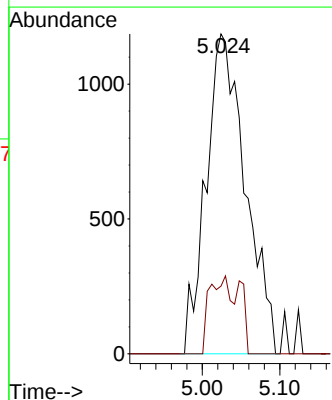
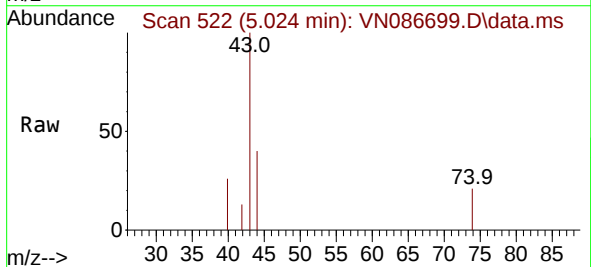
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

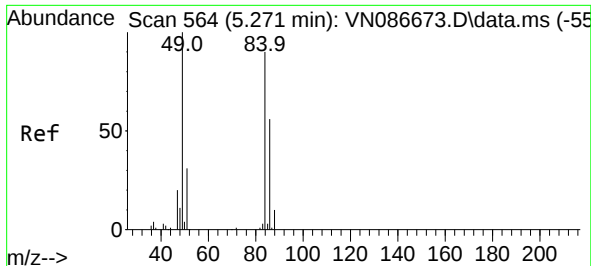
Tgt Ion: 43 Resp: 26206
Ion Ratio Lower Upper
43 100
58 32.7 25.8 38.6



#18
Methyl Acetate
Concen: 1.682 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

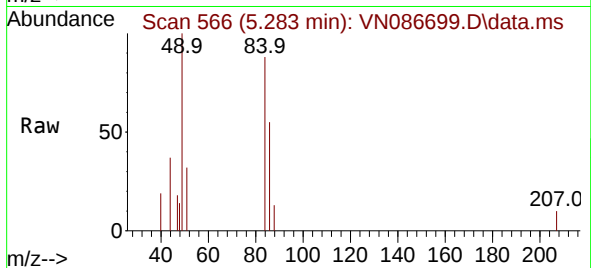
Tgt Ion: 43 Resp: 4181
Ion Ratio Lower Upper
43 100
74 13.9 20.5 30.7#



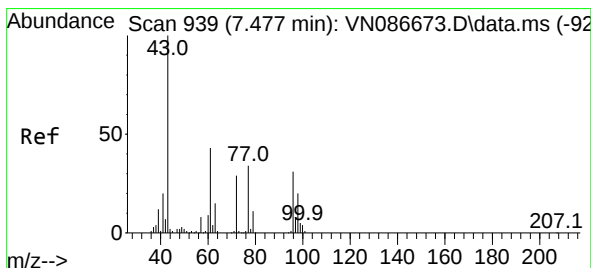
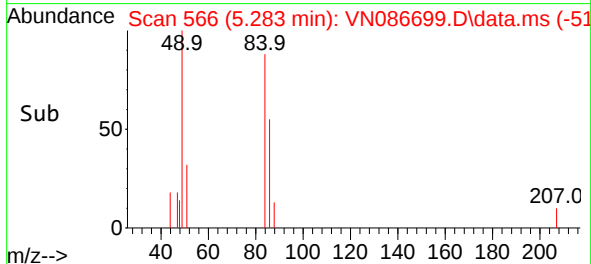
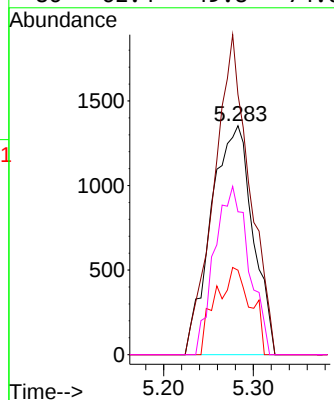


#20
Methylene Chloride
Concen: 1.869 ug/l
RT: 5.283 min Scan# 501
Delta R.T. 0.012 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

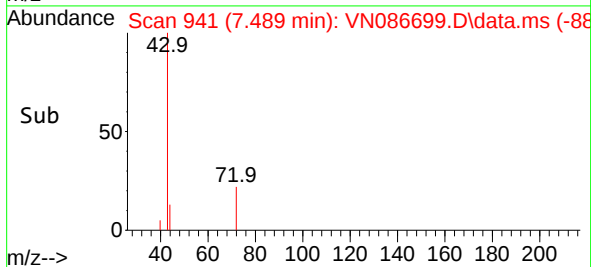
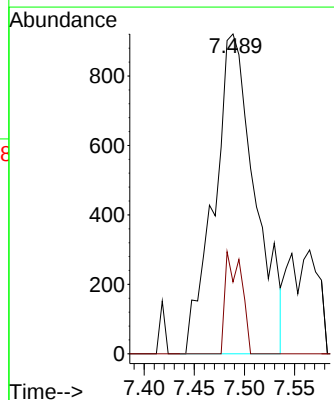
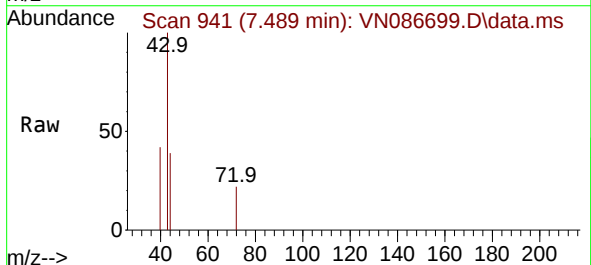


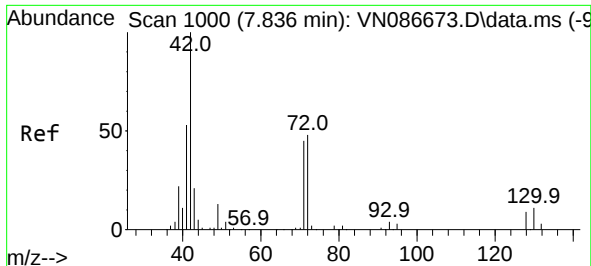
Tgt Ion:	84	Resp:	4381
Ion	Ratio	Lower	Upper
84	100		
49	113.6	88.8	133.2
51	36.9	27.8	41.6
86	62.4	49.8	74.6



#25
2-Butanone
Concen: 1.910 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

Tgt Ion:	43	Resp:	2621
Ion	Ratio	Lower	Upper
43	100		
72	22.5	23.1	34.7#





#29

Tetrahydrofuran

Concen: 0.584 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN086699.D

Acq: 19 May 2025 19:05

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#16

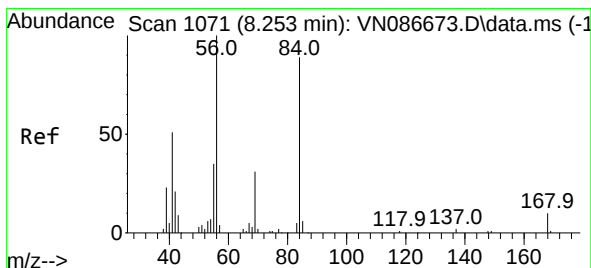
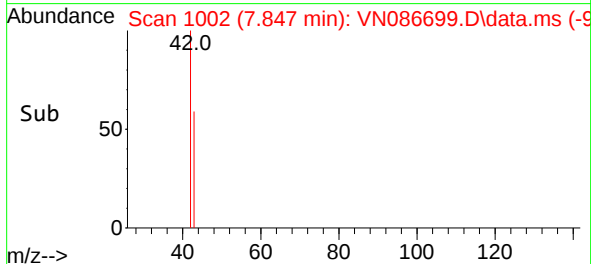
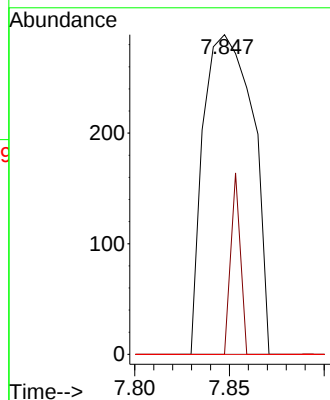
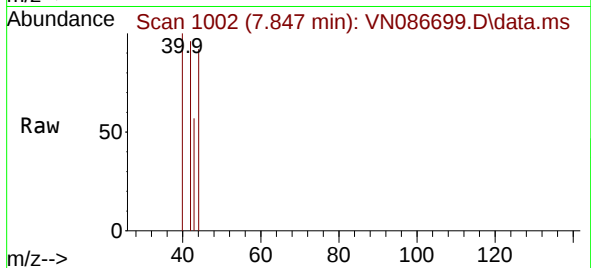
Tgt Ion: 42 Resp: 523

Ion Ratio Lower Upper

42 100

72 11.1 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 1.076 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN086699.D

Acq: 19 May 2025 19:05

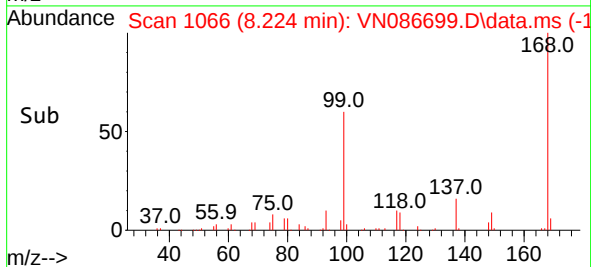
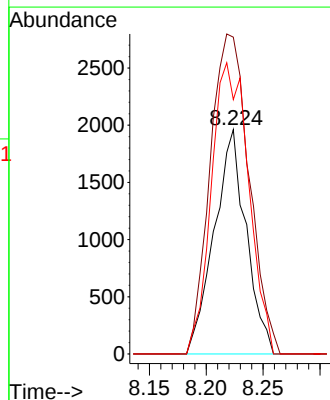
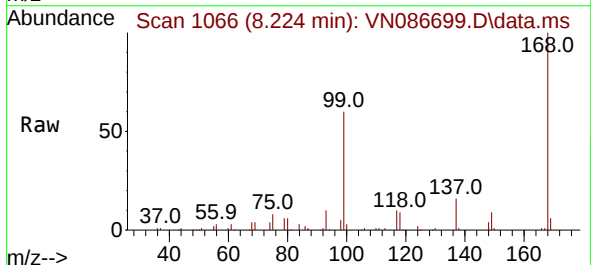
Tgt Ion: 56 Resp: 3834

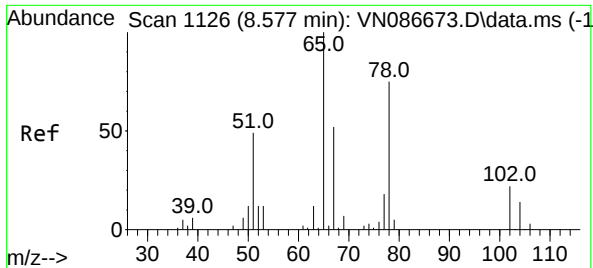
Ion Ratio Lower Upper

56 100

69 141.2 25.0 37.6#

84 113.4 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 53.047 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086699.D

Acq: 19 May 2025 19:05

Instrument :

MSVOA_N

ClientSampleId :

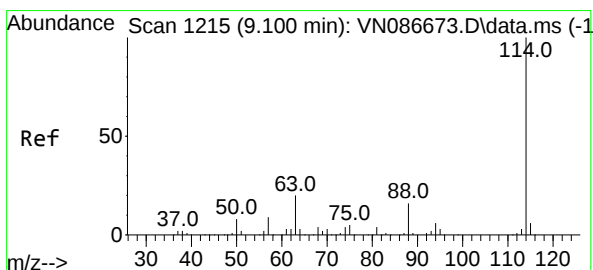
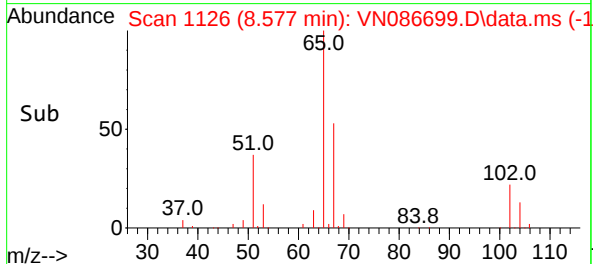
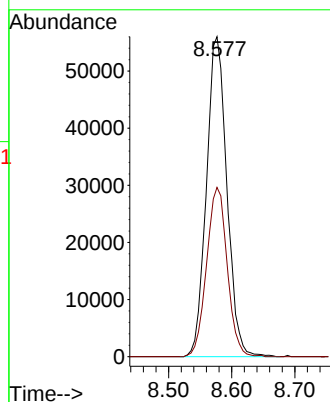
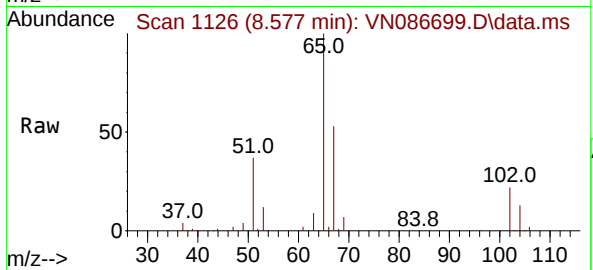
PB168034ZHE#16

Tgt Ion: 65 Resp: 125936

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086699.D

Acq: 19 May 2025 19:05

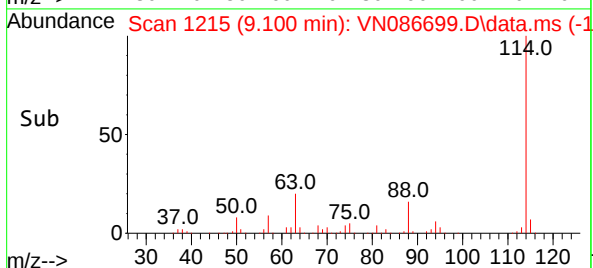
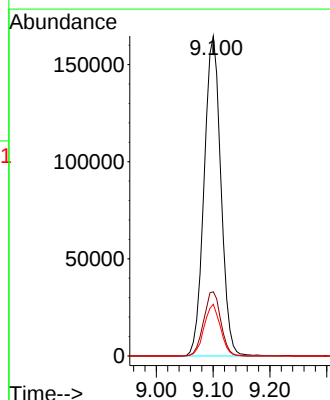
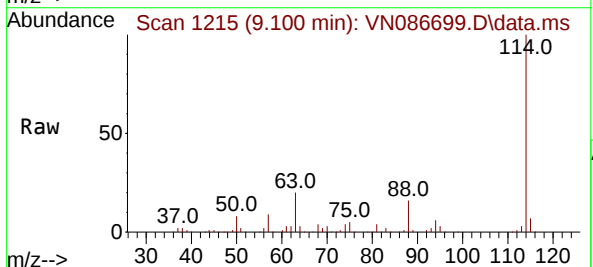
Tgt Ion: 114 Resp: 336700

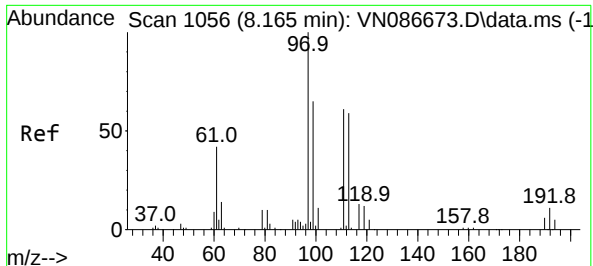
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

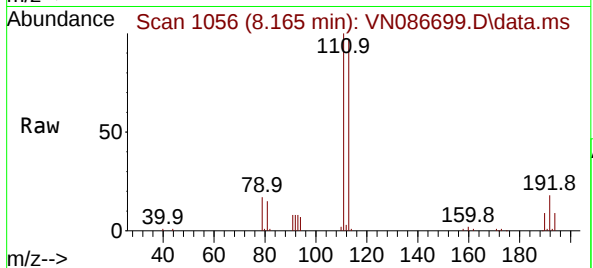
88 16.1 0.0 31.2



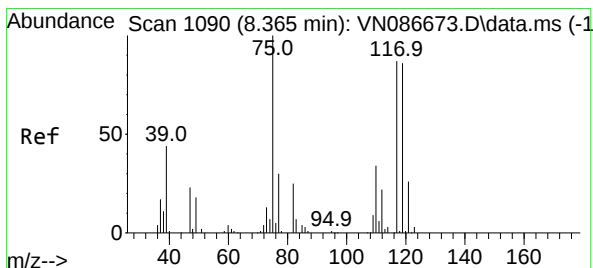
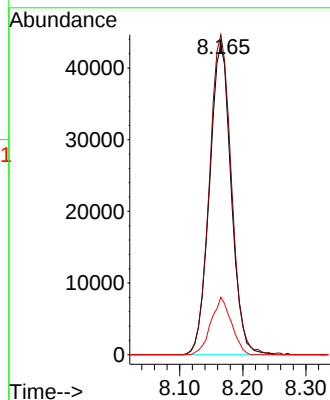
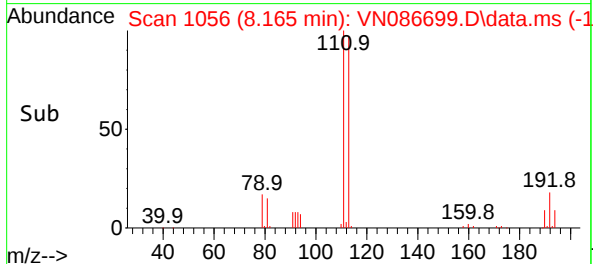


#35
Dibromofluoromethane
Concen: 51.471 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

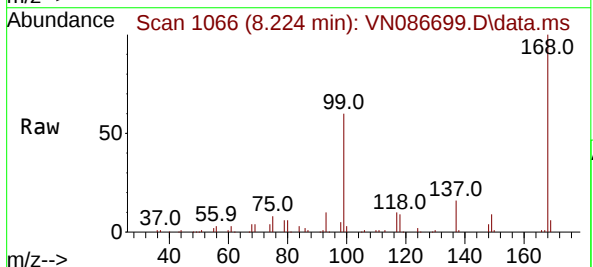
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16



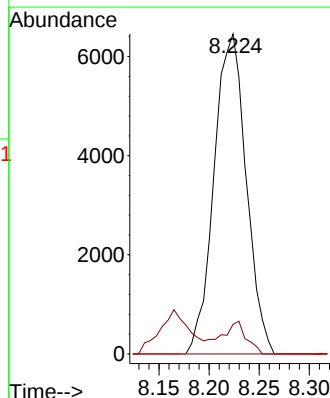
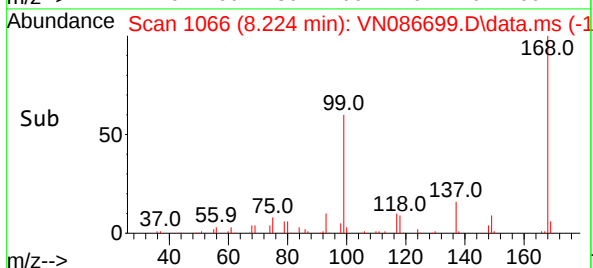
Tgt Ion:113 Resp: 103210
Ion Ratio Lower Upper
113 100
111 104.3 82.2 123.2
192 17.4 13.8 20.8

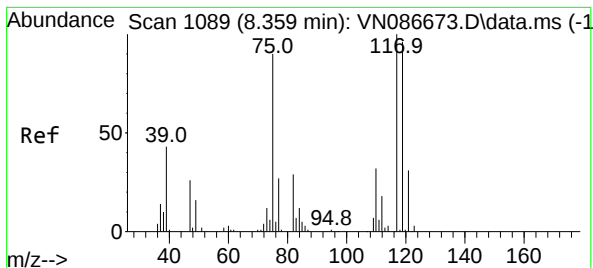


#36
1,1-Dichloropropene
Concen: 4.865 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05



Tgt Ion: 75 Resp: 14389
Ion Ratio Lower Upper
75 100
110 7.4 17.5 52.5#
77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.034 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN086699.D

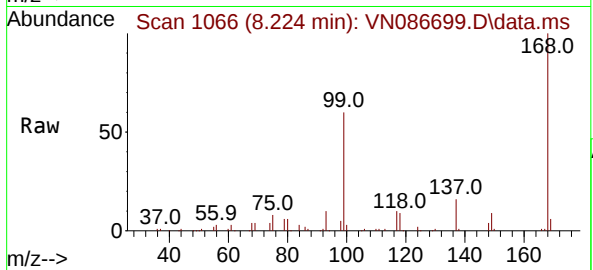
Acq: 19 May 2025 19:05

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#16



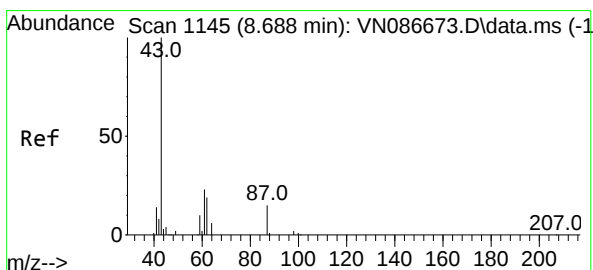
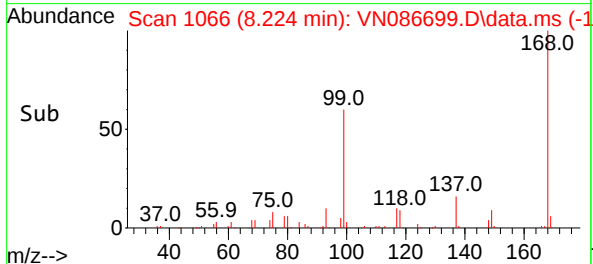
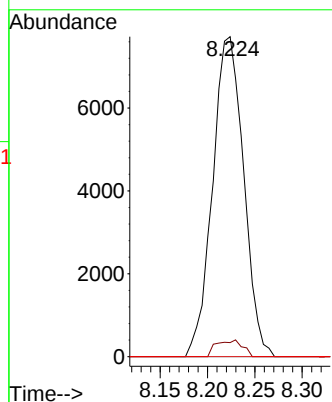
Tgt Ion:117 Resp: 17584

Ion Ratio Lower Upper

117 100

119 4.4 77.0 115.6#

121 0.0 25.0 37.6#



#43

Isopropyl Acetate

Concen: 13.057 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN086699.D

Acq: 19 May 2025 19:05

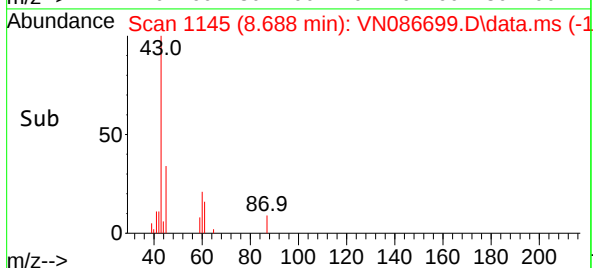
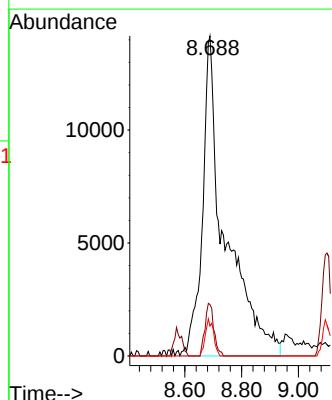
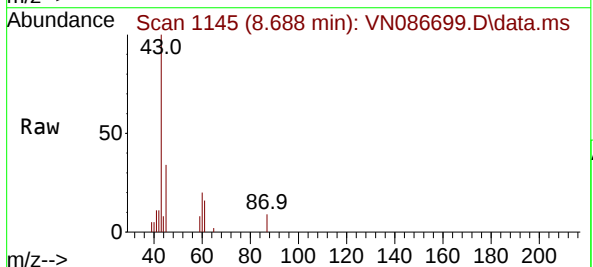
Tgt Ion: 43 Resp: 78208

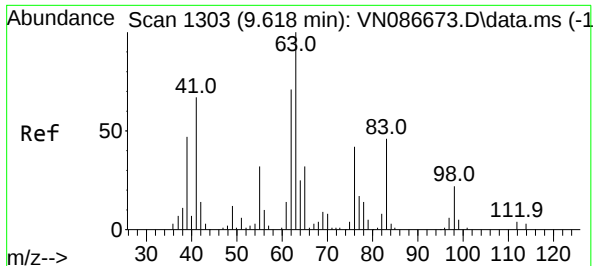
Ion Ratio Lower Upper

43 100

61 6.5 21.4 32.2#

87 4.2 11.1 16.7#





#45

1,2-Dichloropropane

Concen: 0.455 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.118 min

Lab File: VN086699.D

Acq: 19 May 2025 19:05

Instrument :

MSVOA_N

ClientSampleId :

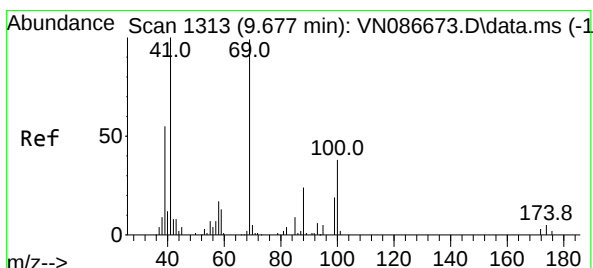
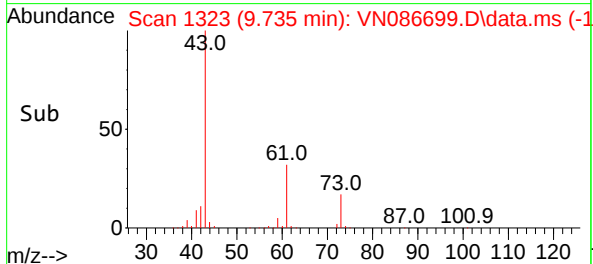
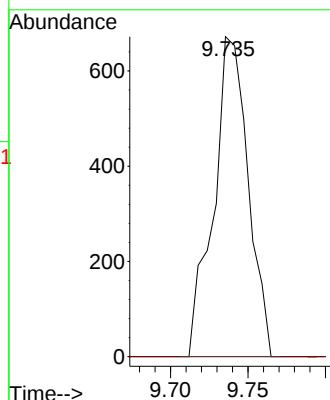
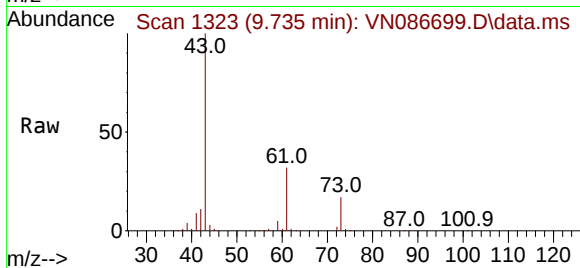
PB168034ZHE#16

Tgt Ion: 63 Resp: 1044

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 30.759 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086699.D

Acq: 19 May 2025 19:05

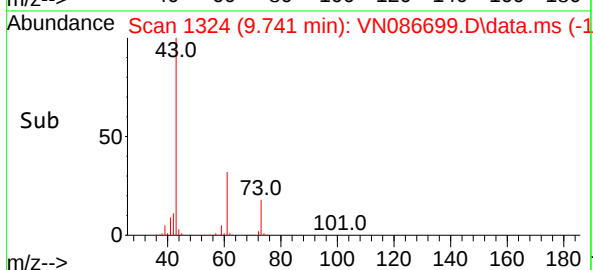
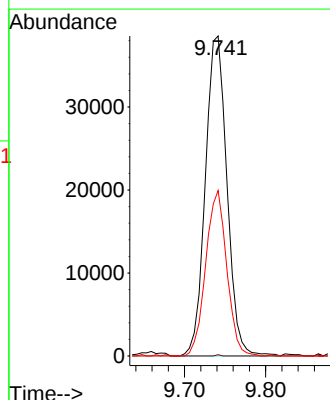
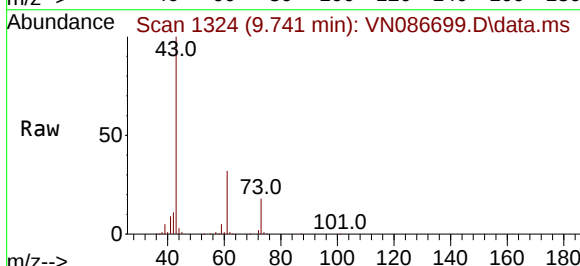
Tgt Ion: 41 Resp: 71390

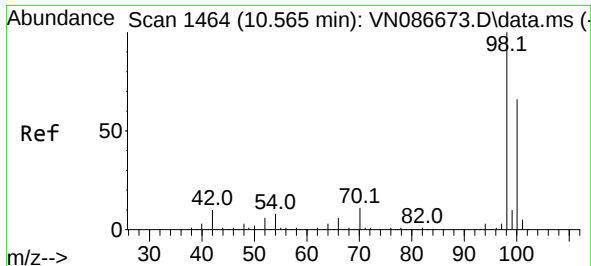
Ion Ratio Lower Upper

41 100

69 0.1 74.1 111.1#

39 50.2 44.1 66.1

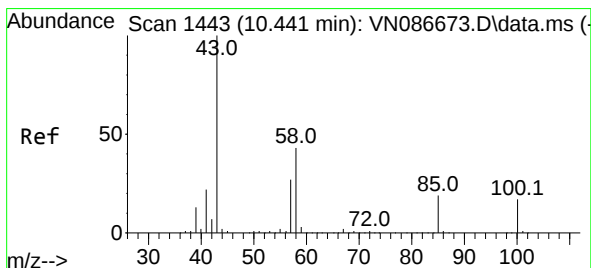
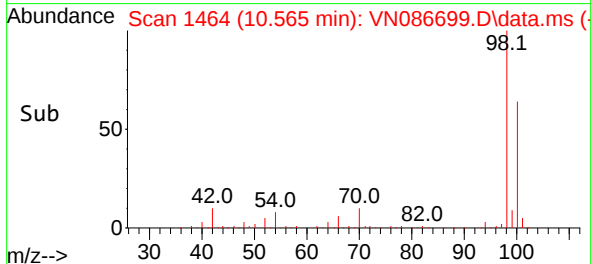
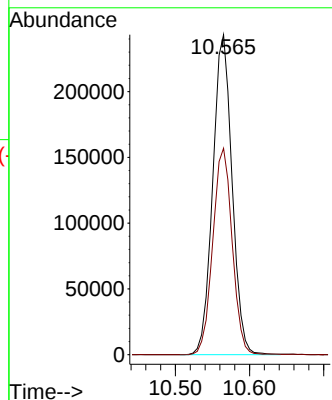
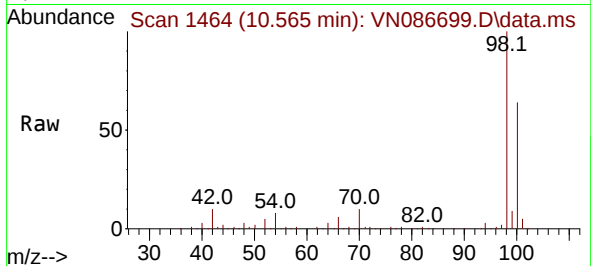




#50
Toluene-d8
Concen: 52.924 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

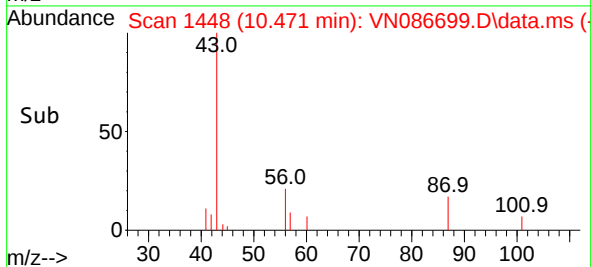
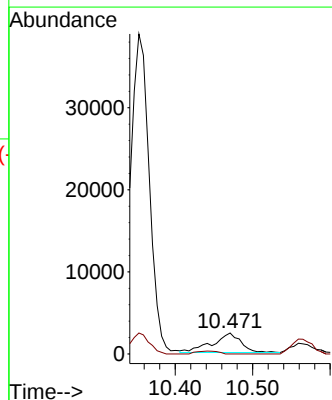
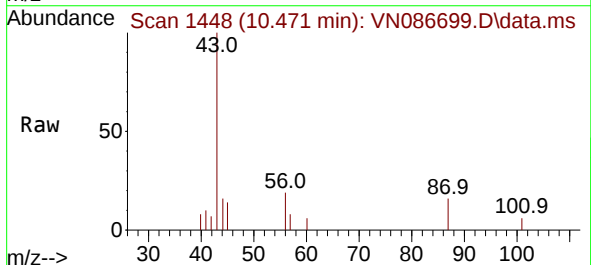
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

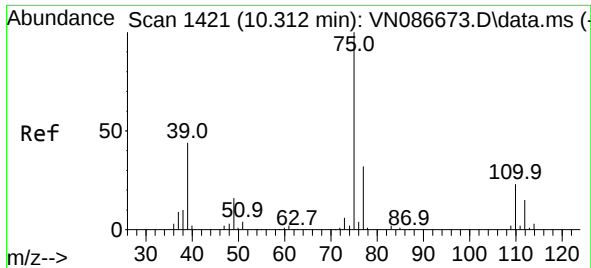
Tgt Ion: 98 Resp: 439776
Ion Ratio Lower Upper
98 100
100 64.8 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 2.020 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

Tgt Ion: 43 Resp: 6102
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#

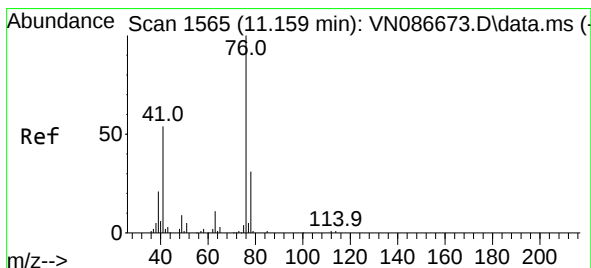
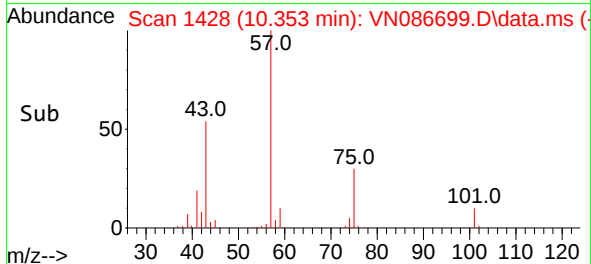
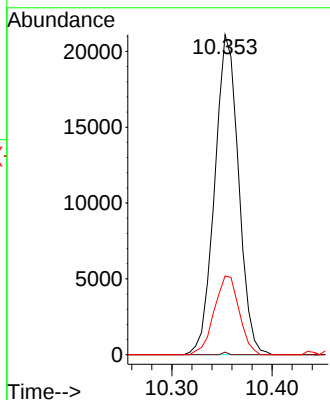
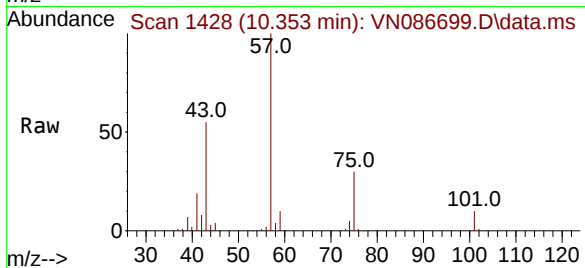




#54
cis-1,3-Dichloropropene
Concen: 9.465 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

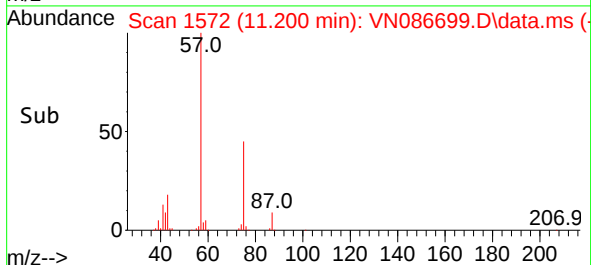
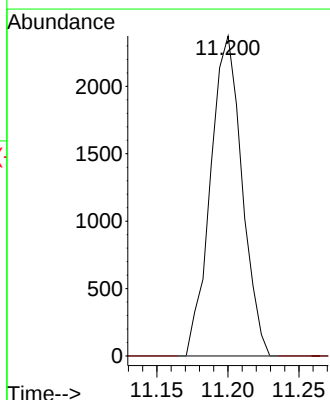
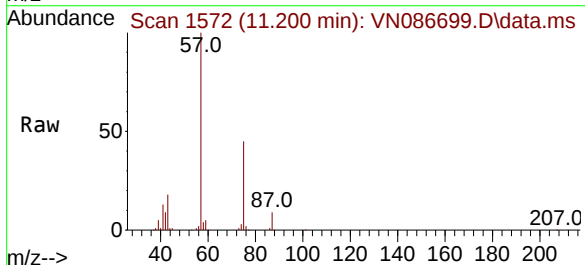
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

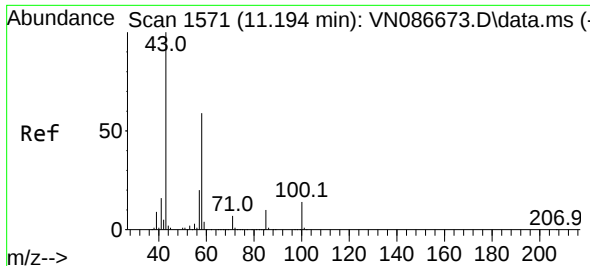
Tgt Ion: 75 Resp: 34862
Ion Ratio Lower Upper
75 100
77 0.8 25.3 37.9#
39 24.6 35.2 52.8#



#57
1,3-Dichloropropane
Concen: 0.952 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

Tgt Ion: 76 Resp: 3669
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

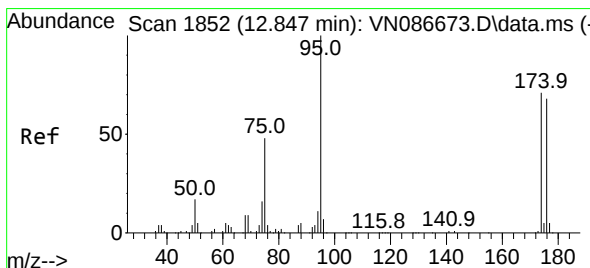
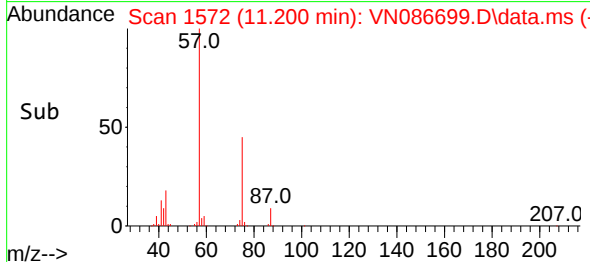
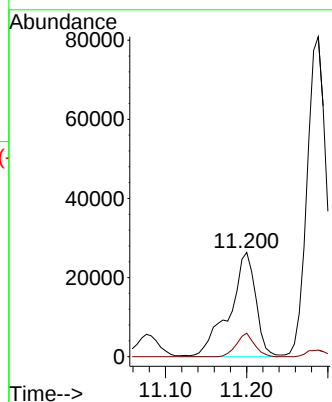
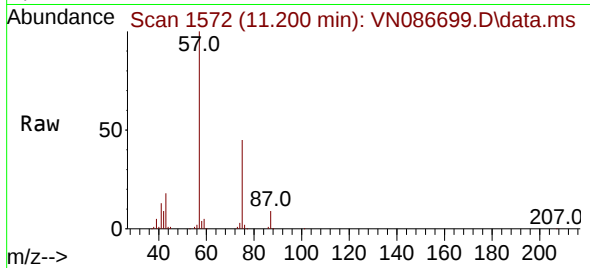




#59
2-Hexanone
Concen: 26.913 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

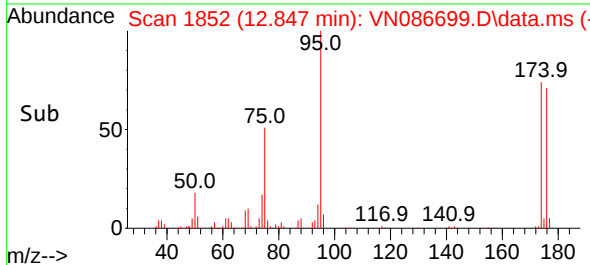
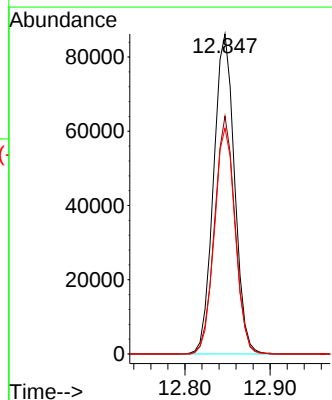
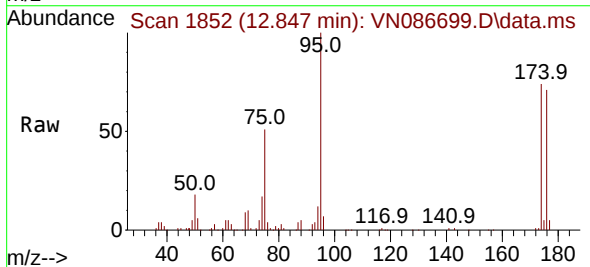
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

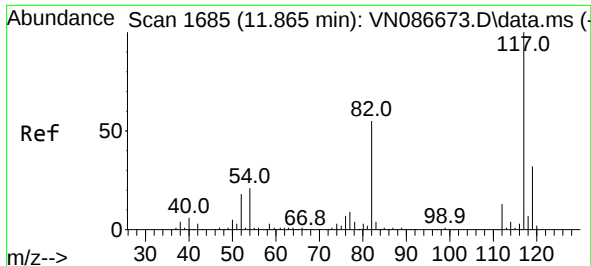
Tgt Ion: 43 Resp: 59362
Ion Ratio Lower Upper
43 100
58 15.4 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 50.189 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

Tgt Ion: 95 Resp: 147259
Ion Ratio Lower Upper
95 100
174 72.4 0.0 145.4
176 70.1 0.0 137.8

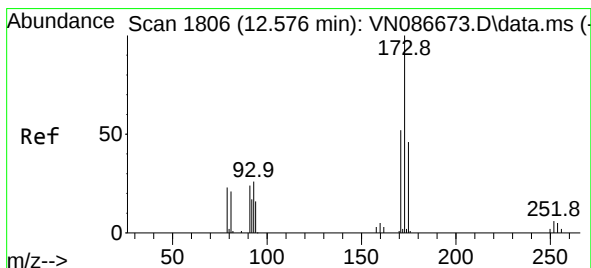
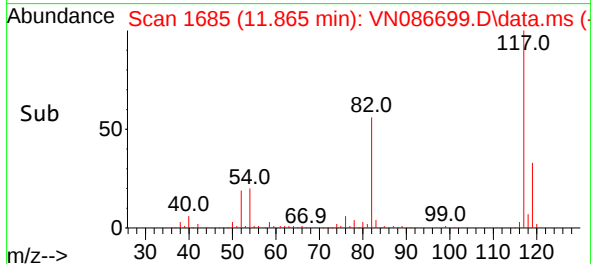
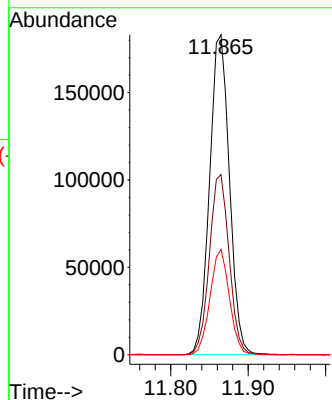
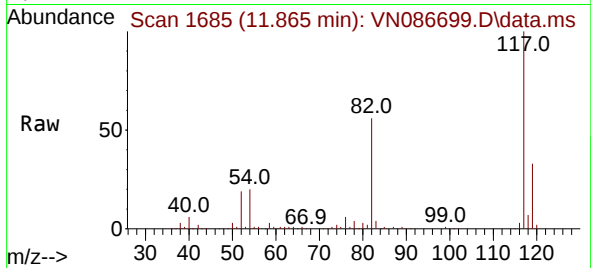




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

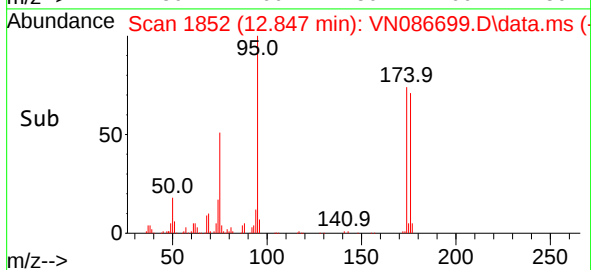
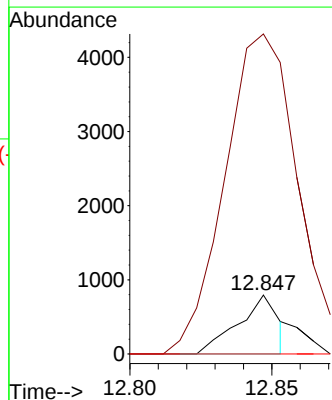
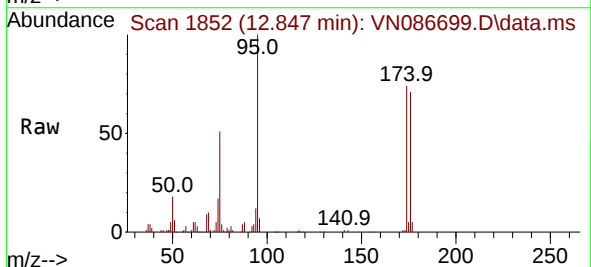
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

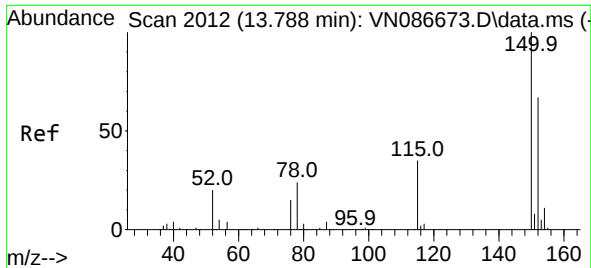
Tgt Ion:117 Resp: 325897
Ion Ratio Lower Upper
117 100
82 56.3 44.2 66.2
119 32.9 25.4 38.2



#71
Bromoform
Concen: 0.479 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

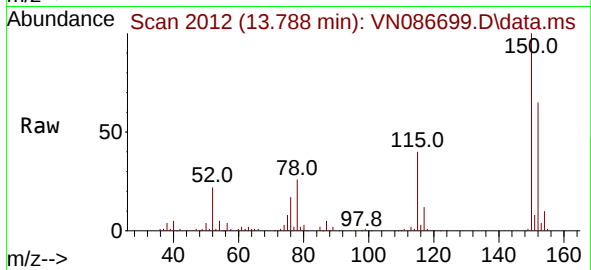
Tgt Ion:173 Resp: 786
Ion Ratio Lower Upper
173 100
175 784.7 23.4 70.2#
254 0.0 0.0 0.0



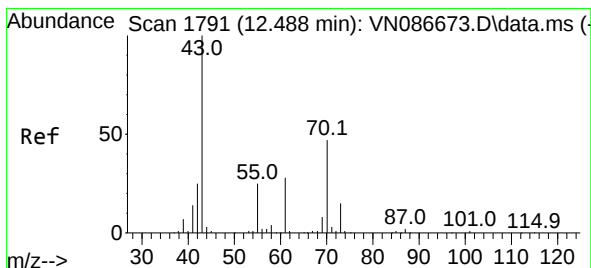
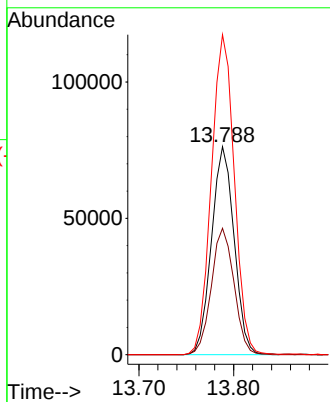
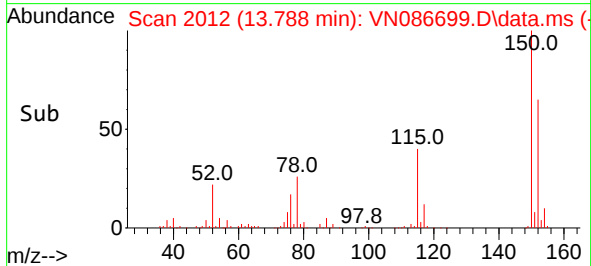


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

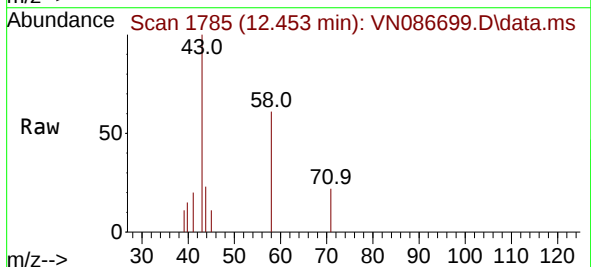
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16



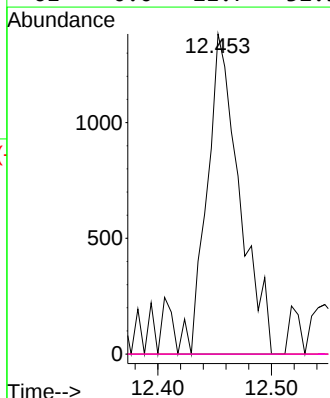
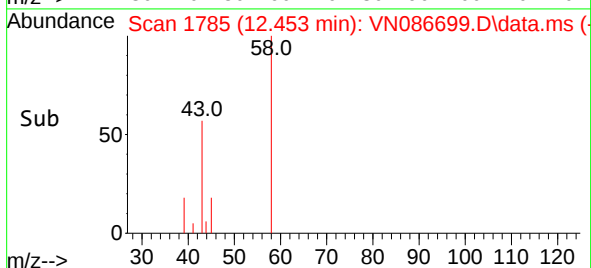
Tgt Ion:152 Resp: 126604
Ion Ratio Lower Upper
152 100
115 60.9 30.0 90.1
150 156.0 0.0 347.8

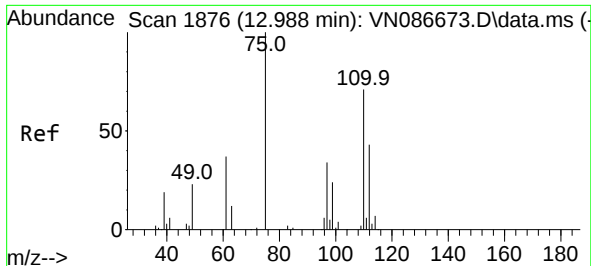


#74
N-ethyl acetate
Concen: 0.675 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05



Tgt Ion: 43 Resp: 2756
Ion Ratio Lower Upper
43 100
70 0.0 37.9 56.9#
55 0.0 20.5 30.7#
61 0.0 21.7 32.5#

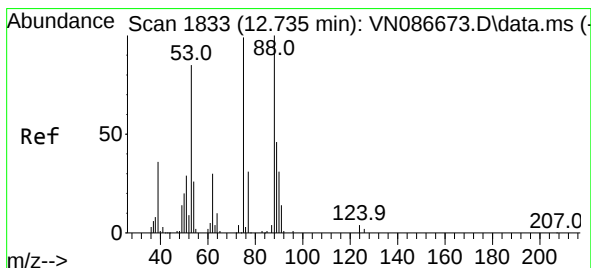
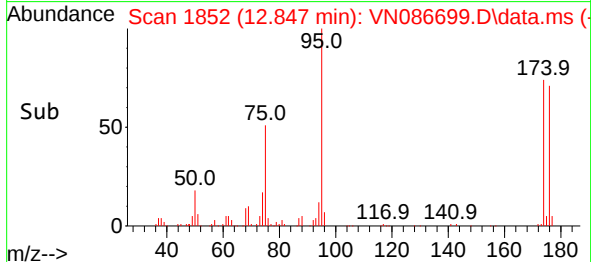
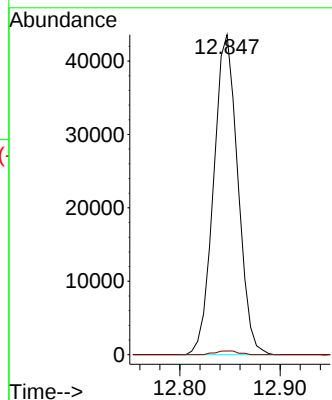
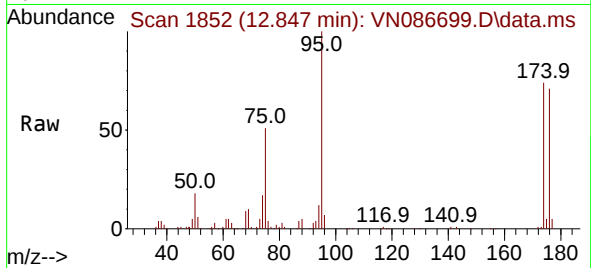




#76
1,2,3-Trichloropropane
Concen: 25.525 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#16

Tgt Ion: 75 Resp: 73084
Ion Ratio Lower Upper
75 100
77 1.1 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.416 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086699.D
Acq: 19 May 2025 19:05

Tgt Ion: 75 Resp: 73084
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#

