

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086851.D
 Acq On : 03 Jun 2025 18:36
 Operator : JC\MD
 Sample : PB168225ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#12

Quant Time: Jun 04 02:04:27 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)

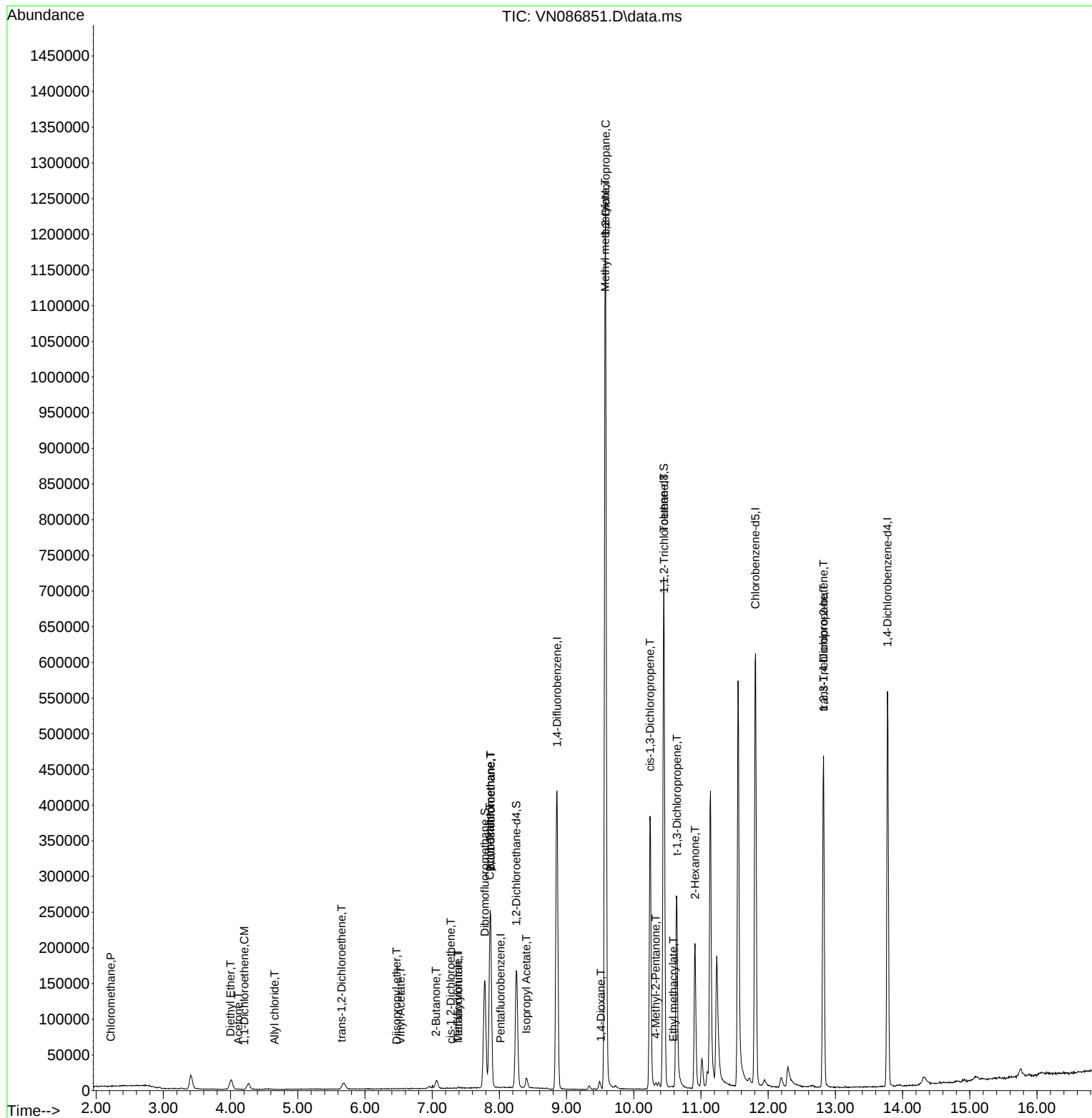
Internal Standards						
1) Pentafluorobenzene	8.018	168	71	50.000	ug/l	#-0.21
34) 1,4-Difluorobenzene	8.859	114	412766	50.000	ug/l	-0.24
63) Chlorobenzene-d5	11.812	117	304003	50.000	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	13.776	152	159505	50.000	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.253	65	147608	150453.069	ug/l	-0.32
Spiked Amount	50.000	Range	74 - 125	Recovery	= 300906.140%#	
35) Dibromofluoromethane	7.782	113	129193	52.556	ug/l	-0.38
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.120%	
50) Toluene-d8	10.447	98	522810	51.322	ug/l	-0.12
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.640%	
62) 4-Bromofluorobenzene	0.000	95	0	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	= 0.000%#	
Target Compounds						Qvalue
3) Chloromethane	2.218	50	67	57.772	ug/l #	42
8) Diethyl Ether	4.000	74	7223	14047.248	ug/l #	4
12) 1,1-Dichloroethene	4.206	96	115	145.218	ug/l #	1
14) Allyl chloride	4.653	41	55	45.885	ug/l #	21
16) Acetone	4.118	43	391	1065.416	ug/l #	42
21) trans-1,2-Dichloroethene	5.653	96	72	85.993	ug/l #	1
22) Diisopropyl ether	6.471	45	60	22.188	ug/l #	38
23) Vinyl Acetate	6.530	43	60	29.522	ug/l #	69
25) 2-Butanone	7.059	43	20076	35400.816	ug/l #	46
27) cis-1,2-Dichloroethene	7.277	96	115	111.899	ug/l #	1
28) Bromochloromethane	7.871	49	543	752.763	ug/l #	1
29) Tetrahydrofuran	7.388	42	919	2482.717	ug/l #	78
31) Cyclohexane	7.859	56	4324	2936.590	ug/l #	1
32) 1,1,1-Trichloroethane	7.871	97	59	44.036	ug/l #	1
41) Methacrylonitrile	7.388	41	473	0.239	ug/l #	27
43) Isopropyl Acetate	8.400	43	16324	2.223	ug/l	93
45) 1,2-Dichloropropane	9.582	63	1892	0.673	ug/l #	42
48) Methyl methacrylate	9.576	41	109820	38.597	ug/l #	35
49) 1,4-Dioxane	9.512	88	443	7.353	ug/l #	24
51) 4-Methyl-2-Pentanone	10.329	43	5393	1.456	ug/l	91
53) t-1,3-Dichloropropene	10.641	75	944	0.228	ug/l #	43
54) cis-1,3-Dichloropropene	10.241	75	83401	18.471	ug/l #	55
55) 1,1,2-Trichloroethane	10.453	97	11627	4.240	ug/l #	1
56) Ethyl methacrylate	10.588	69	1276	0.290	ug/l #	33
59) 2-Hexanone	10.912	43	159705	59.062	ug/l #	21
76) 1,2,3-Trichloropropane	12.823	75	86078	23.862	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	86078	60.219	ug/l #	15

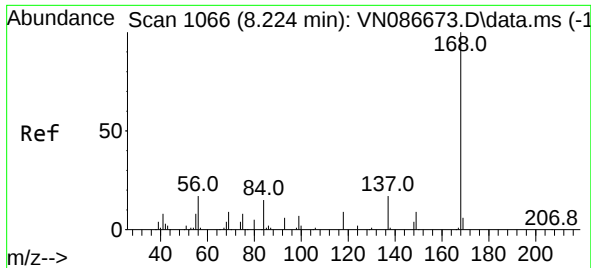
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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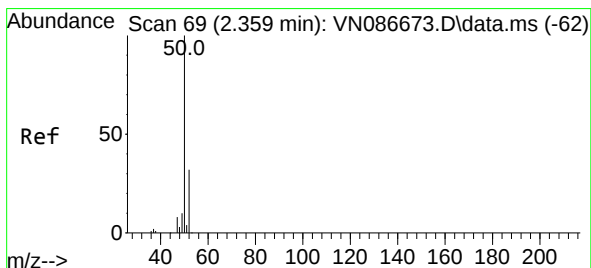
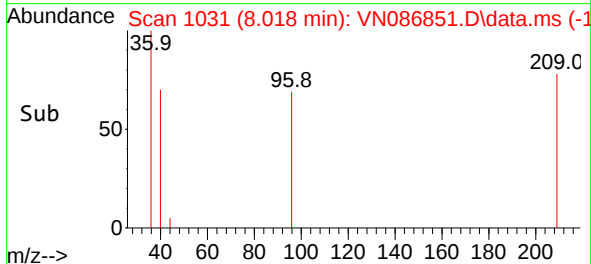
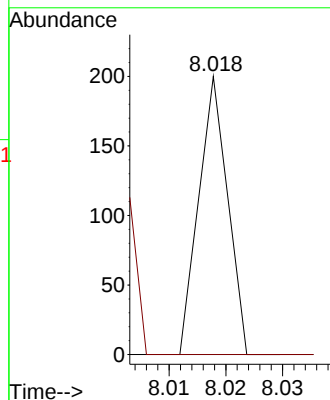
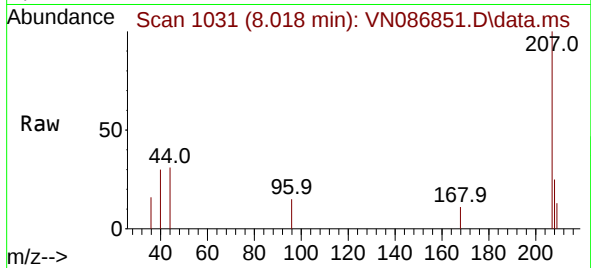




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.018 min Scan# 10
Delta R.T. -0.206 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

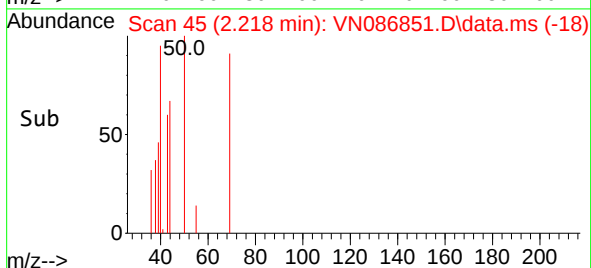
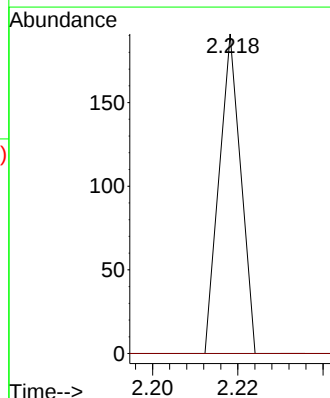
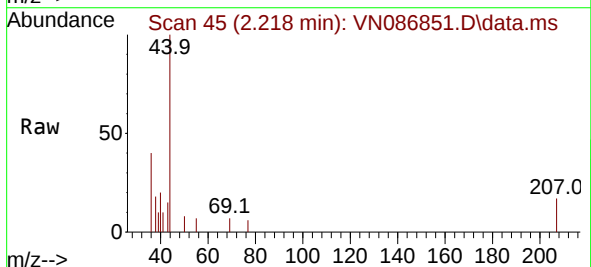
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#12

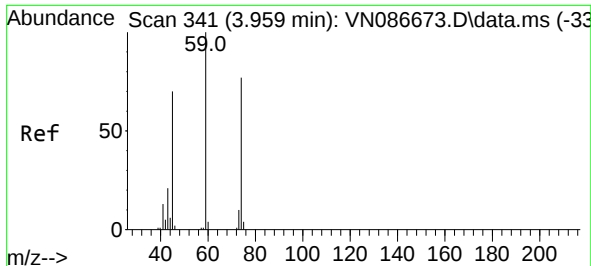
Tgt Ion:168 Resp: 71
Ion Ratio Lower Upper
168 100
99 0.0 47.0 70.4#



#3
Chloromethane
Concen: 57.772 ug/l
RT: 2.218 min Scan# 45
Delta R.T. -0.141 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

Tgt Ion: 50 Resp: 67
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

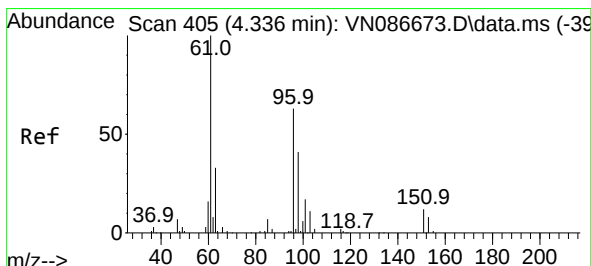
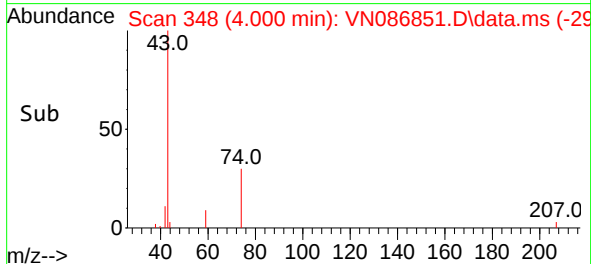
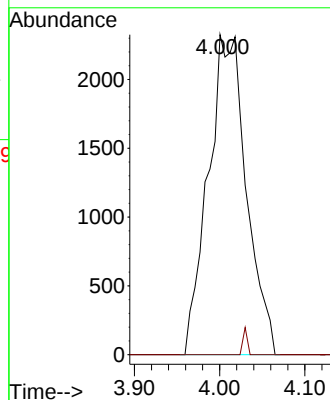
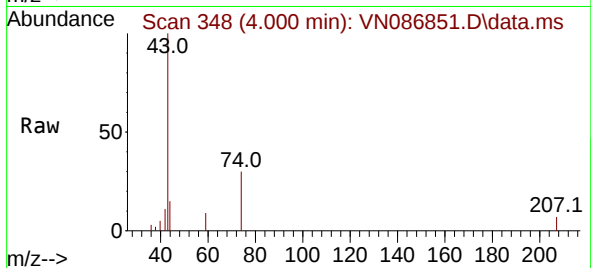




#8
Diethyl Ether
Concen: 14047.248 ug/l
RT: 4.000 min Scan# 341
Delta R.T. 0.041 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

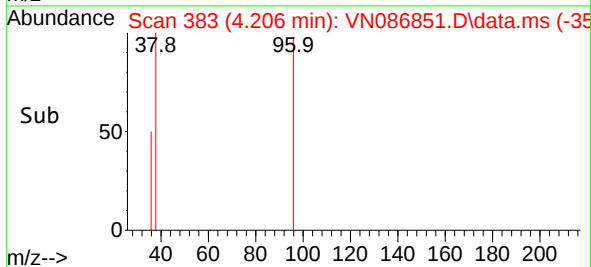
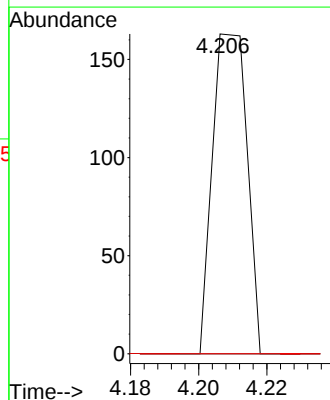
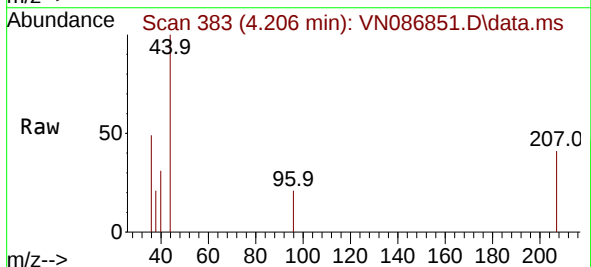
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#12

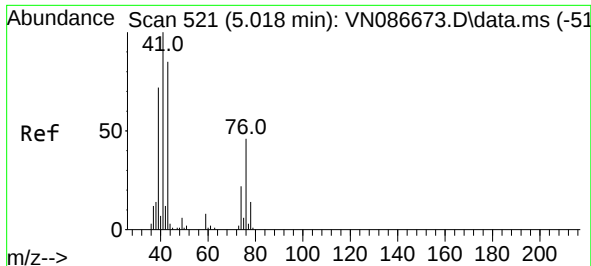
Tgt Ion: 74 Resp: 7223
Ion Ratio Lower Upper
74 100
45 0.0 45.0 135.0#



#12
1,1-Dichloroethene
Concen: 145.218 ug/l
RT: 4.206 min Scan# 383
Delta R.T. -0.130 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

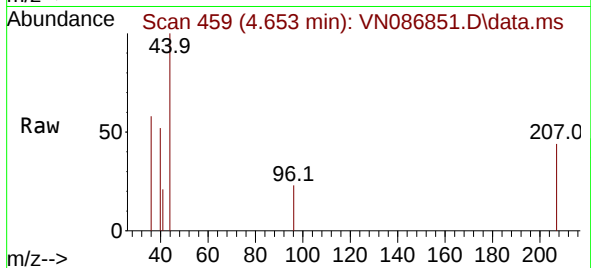
Tgt Ion: 96 Resp: 115
Ion Ratio Lower Upper
96 100
61 0.0 126.2 189.2#
98 0.0 51.5 77.3#



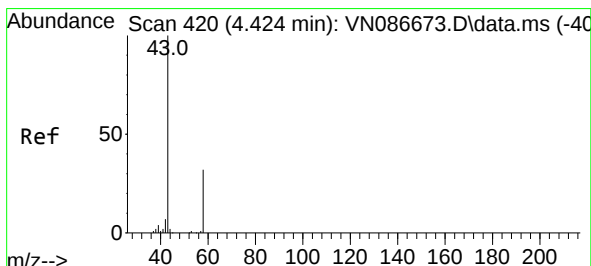
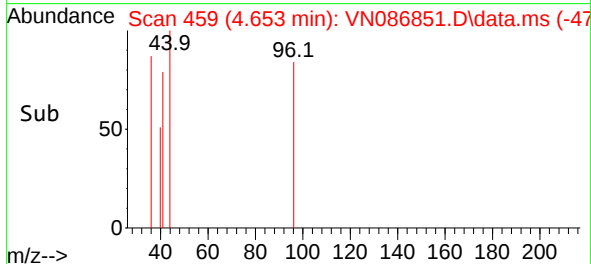
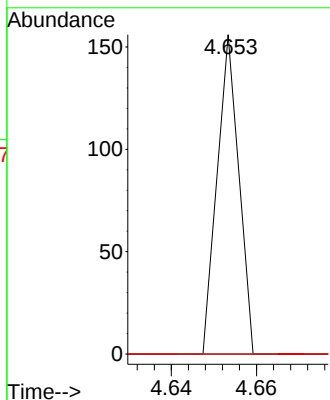


#14
 Allyl chloride
 Concen: 45.885 ug/l
 RT: 4.653 min Scan# 41
 Delta R.T. -0.365 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#12

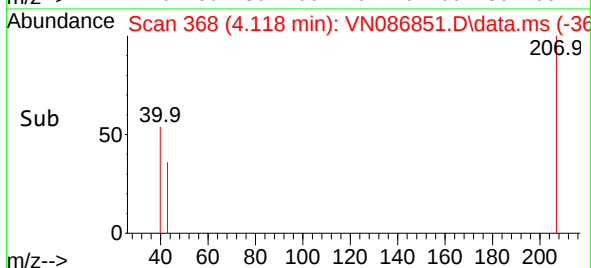
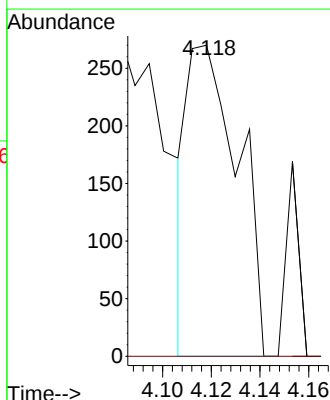
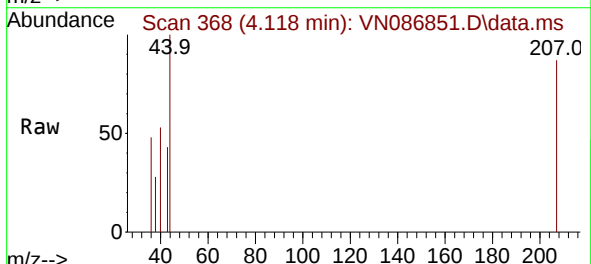


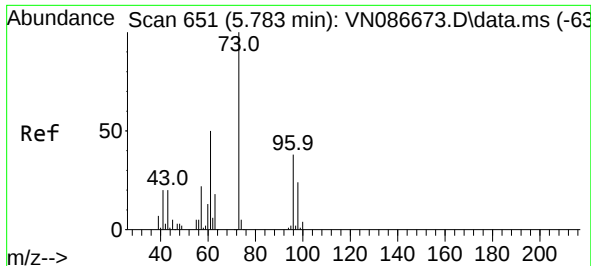
Tgt Ion: 41 Resp: 55
 Ion Ratio Lower Upper
 41 100
 39 0.0 57.4 86.0#
 76 0.0 33.2 49.8#



#16
 Acetone
 Concen: 1065.416 ug/l
 RT: 4.118 min Scan# 368
 Delta R.T. -0.306 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

Tgt Ion: 43 Resp: 391
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.8 38.6#

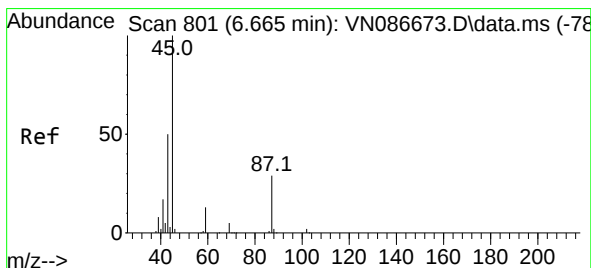
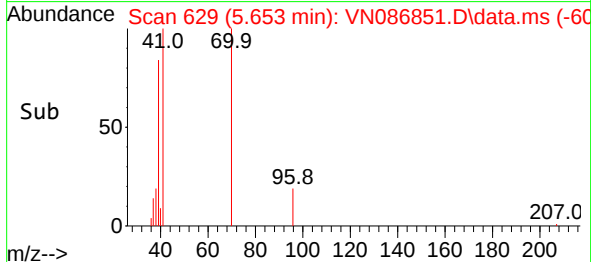
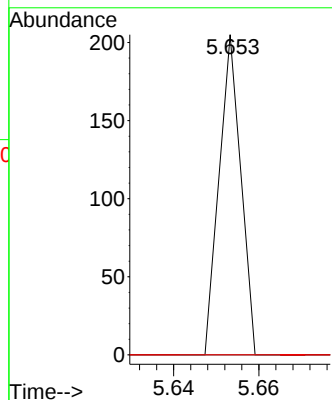
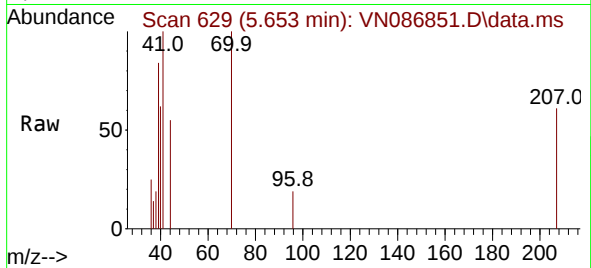




#21
trans-1,2-Dichloroethene
Concen: 85.993 ug/l
RT: 5.653 min Scan# 61
Delta R.T. -0.130 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

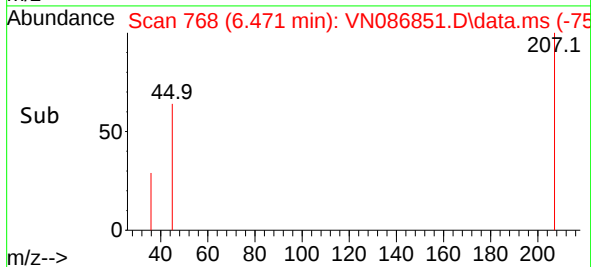
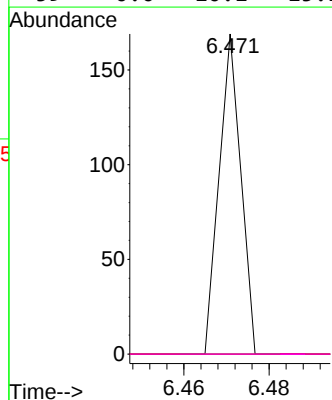
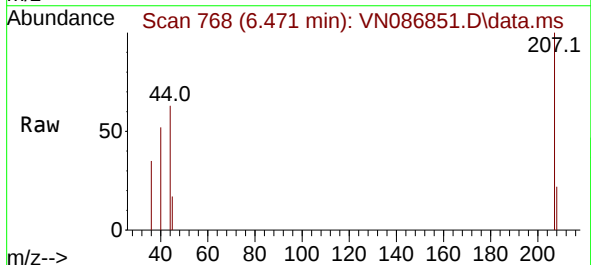
Instrument :
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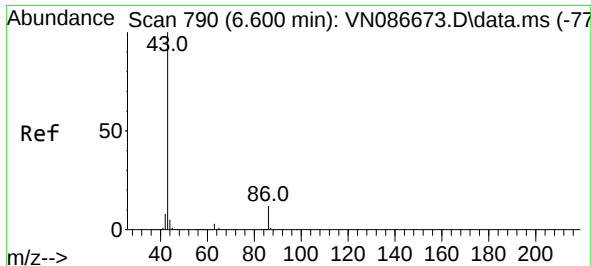
Tgt Ion: 96 Resp: 72
Ion Ratio Lower Upper
96 100
61 0.0 105.7 158.5#
98 0.0 51.0 76.6#



#22
Diisopropyl ether
Concen: 22.188 ug/l
RT: 6.471 min Scan# 768
Delta R.T. -0.194 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

Tgt Ion: 45 Resp: 60
Ion Ratio Lower Upper
45 100
43 0.0 41.4 62.2#
87 0.0 22.9 34.3#
59 0.0 10.1 15.1#

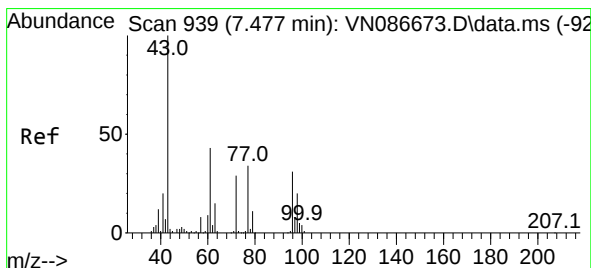
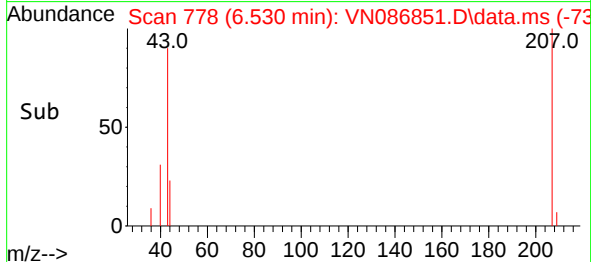
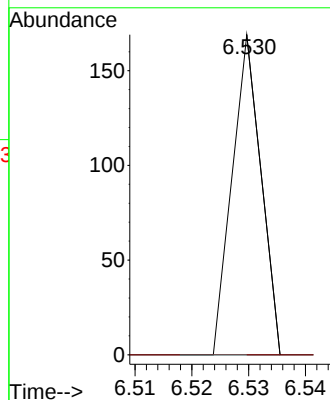
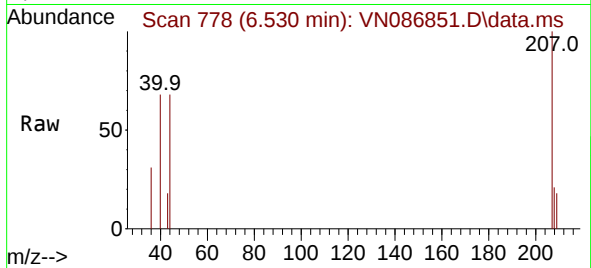




#23
 Vinyl Acetate
 Concen: 29.522 ug/l
 RT: 6.530 min Scan# 71
 Delta R.T. -0.071 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

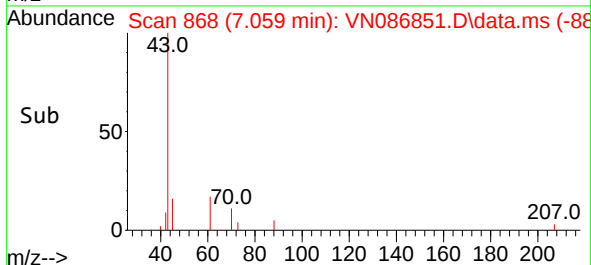
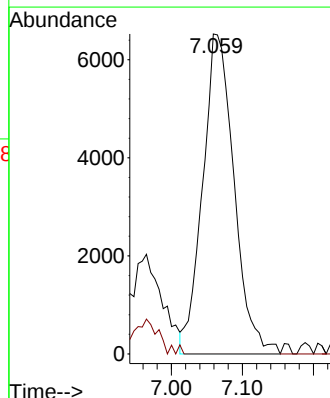
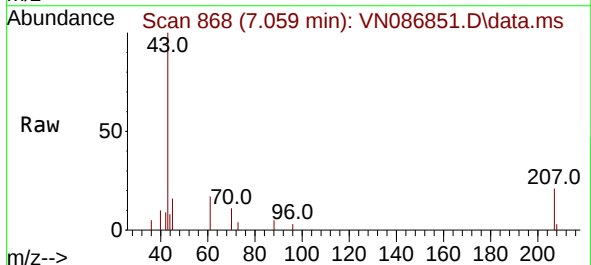
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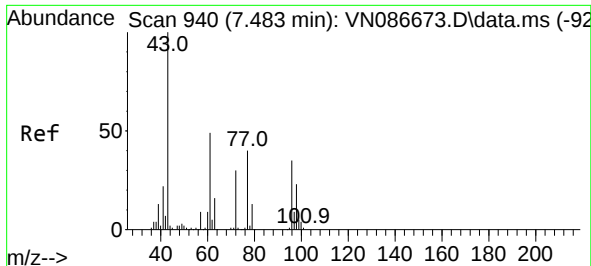
Tgt Ion: 43 Resp: 60
 Ion Ratio Lower Upper
 43 100
 86 0.0 9.5 14.3#



#25
 2-Butanone
 Concen: 35400.816 ug/l
 RT: 7.059 min Scan# 868
 Delta R.T. -0.418 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

Tgt Ion: 43 Resp: 20076
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.1 34.7#

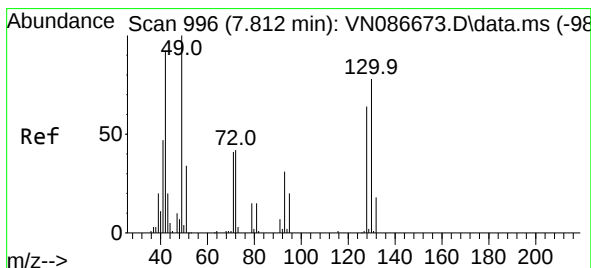
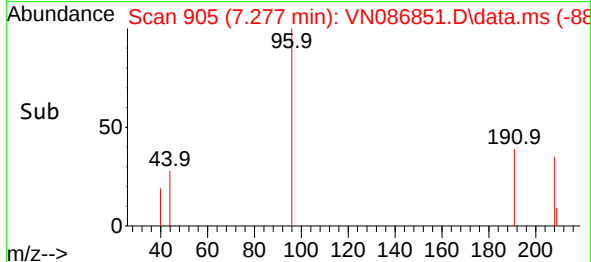
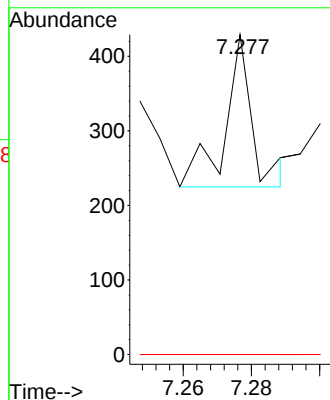
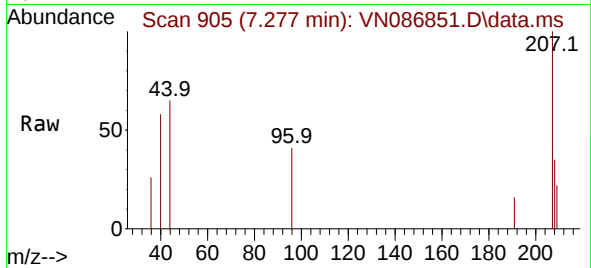




#27
 cis-1,2-Dichloroethene
 Concen: 111.899 ug/l
 RT: 7.277 min Scan# 90
 Delta R.T. -0.206 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

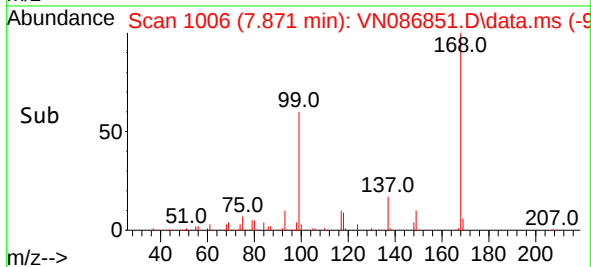
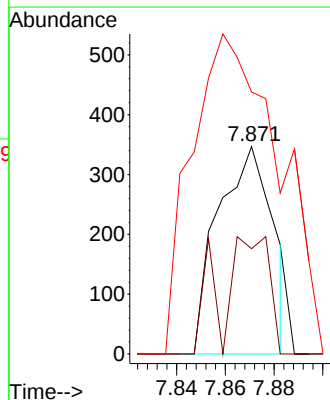
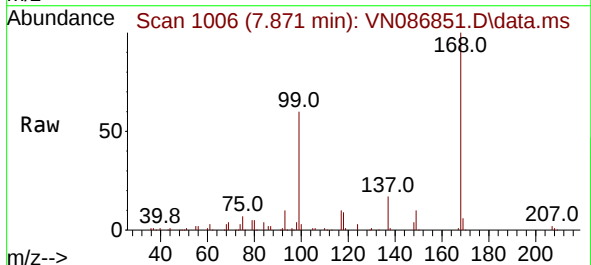
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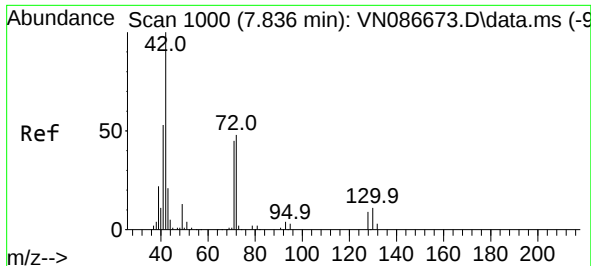
Tgt Ion: 96 Resp: 115
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 277.4
 98 0.0 0.0 129.6



#28
 Bromochloromethane
 Concen: 752.763 ug/l
 RT: 7.871 min Scan# 1006
 Delta R.T. 0.059 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

Tgt Ion: 49 Resp: 543
 Ion Ratio Lower Upper
 49 100
 129 49.5 0.0 3.8#
 130 212.3 62.2 93.4#





#29

Tetrahydrofuran

Concen: 2482.717 ug/l

RT: 7.388 min Scan# 91

Delta R.T. -0.447 min

Lab File: VN086851.D

Acq: 03 Jun 2025 18:36

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#12

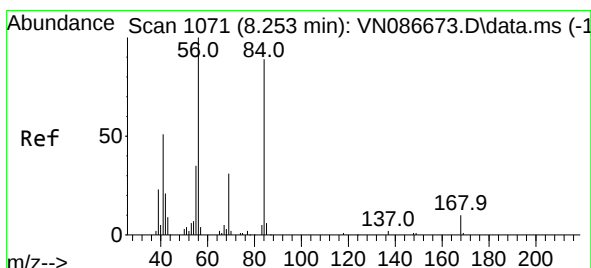
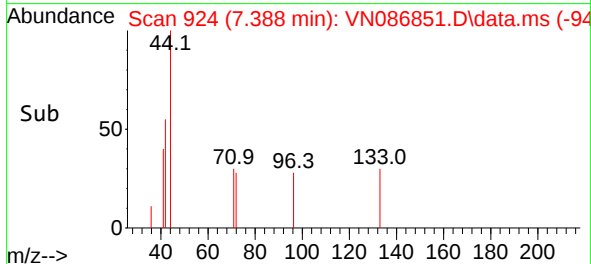
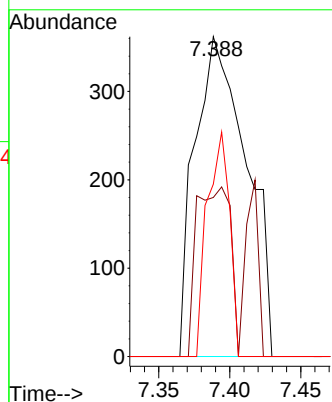
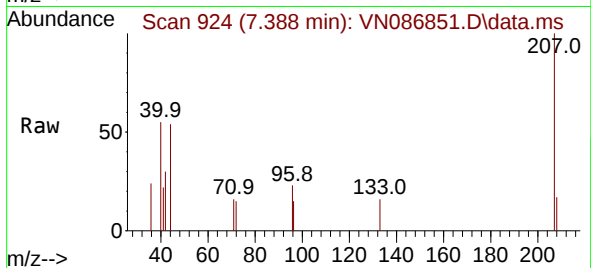
Tgt Ion: 42 Resp: 919

Ion Ratio Lower Upper

42 100

72 34.6 38.7 58.1#

71 30.1 36.2 54.4#



#31

Cyclohexane

Concen: 2936.590 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. -0.394 min

Lab File: VN086851.D

Acq: 03 Jun 2025 18:36

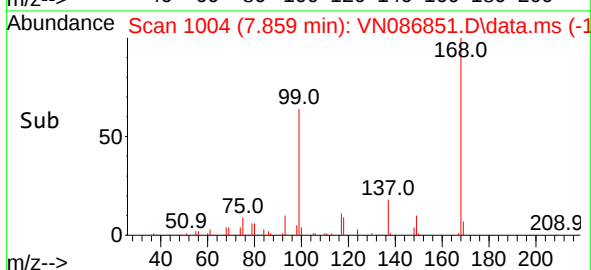
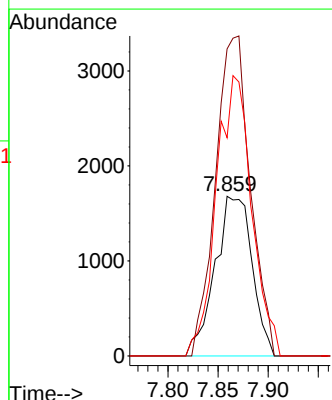
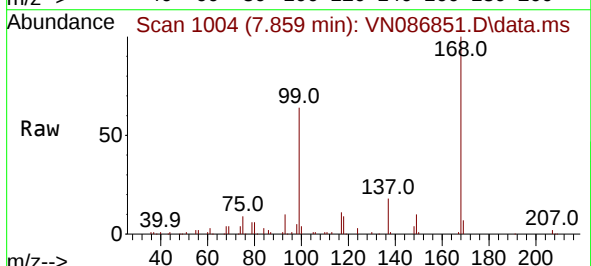
Tgt Ion: 56 Resp: 4324

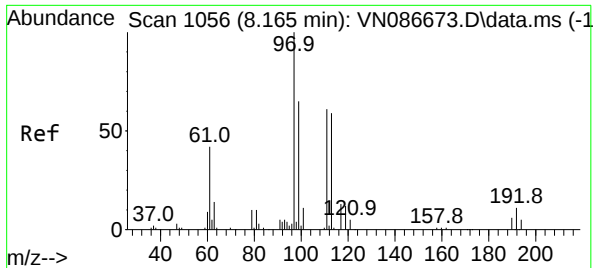
Ion Ratio Lower Upper

56 100

69 192.3 25.0 37.6#

84 136.6 71.0 106.4#

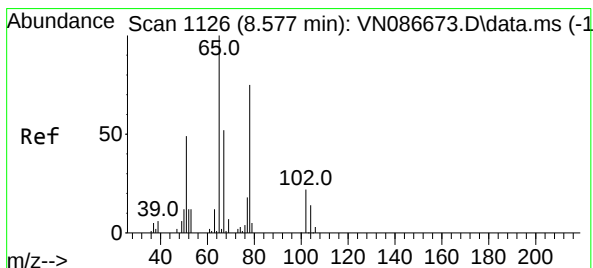
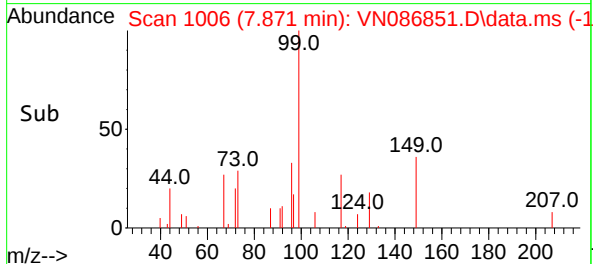
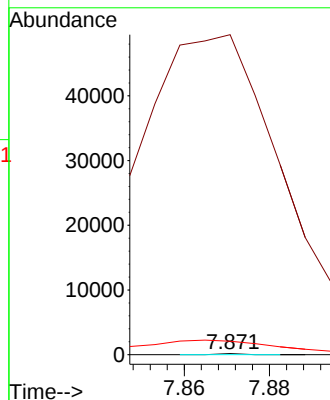
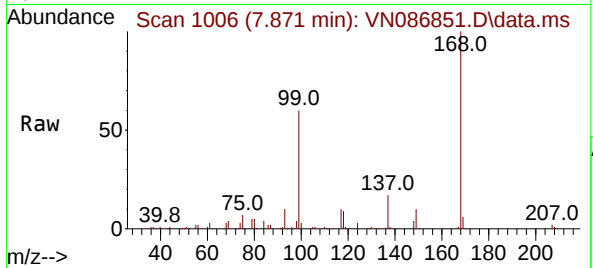




#32
1,1,1-Trichloroethane
Concen: 44.036 ug/l
RT: 7.871 min Scan# 1071
Delta R.T. -0.294 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

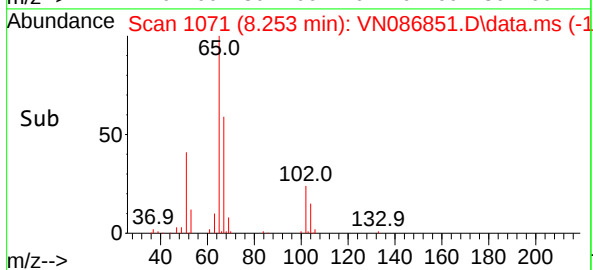
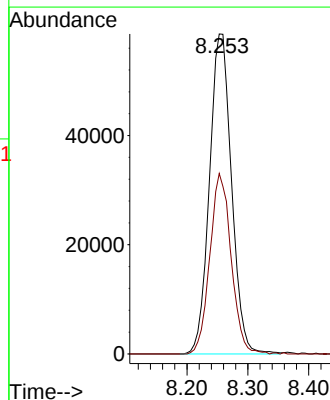
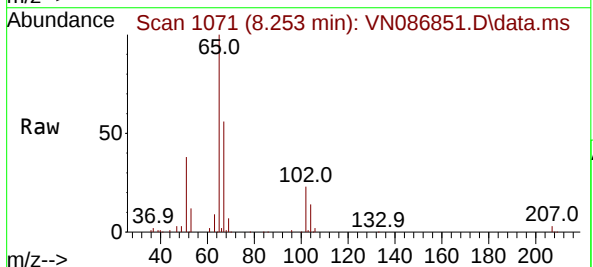
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#12

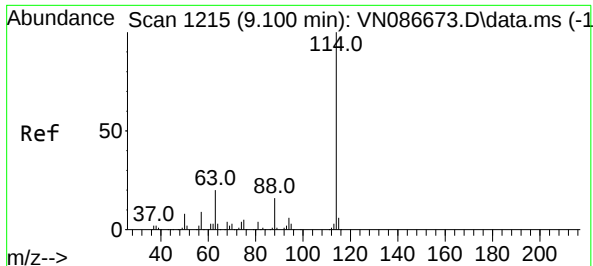
Tgt Ion: 97 Resp: 59
Ion Ratio Lower Upper
97 100
99 214645.8 52.6 79.0#
61 9149.2 37.7 56.5#



#33
1,2-Dichloroethane-d4
Concen: 150453.069 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. -0.324 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

Tgt Ion: 65 Resp: 147608
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.859 min Scan# 1174

Delta R.T. -0.241 min

Lab File: VN086851.D

Acq: 03 Jun 2025 18:36

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#12

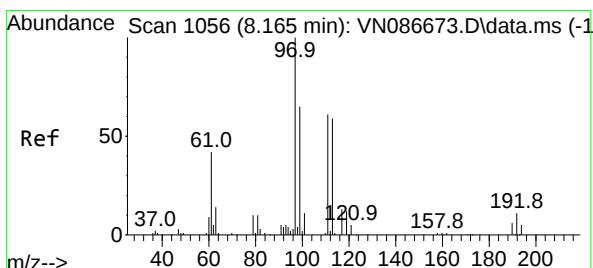
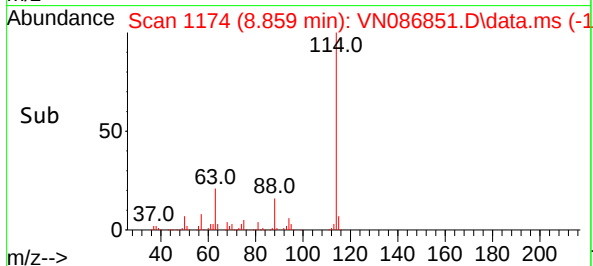
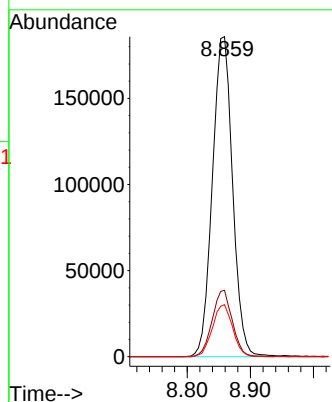
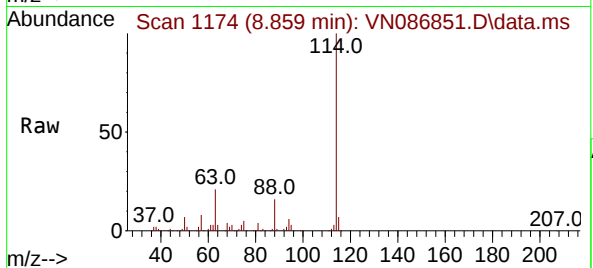
Tgt Ion:114 Resp: 412766

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.2

88 16.3 0.0 31.2



#35

Dibromofluoromethane

Concen: 52.556 ug/l

RT: 7.782 min Scan# 991

Delta R.T. -0.382 min

Lab File: VN086851.D

Acq: 03 Jun 2025 18:36

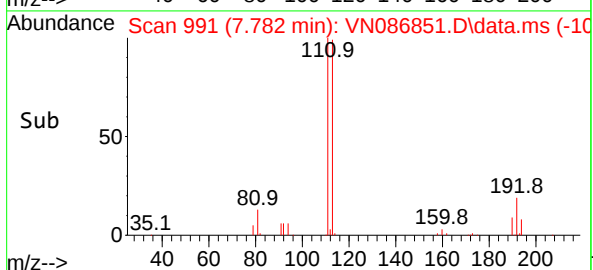
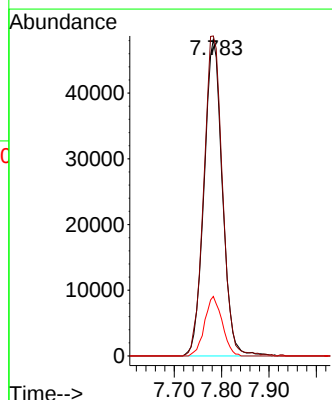
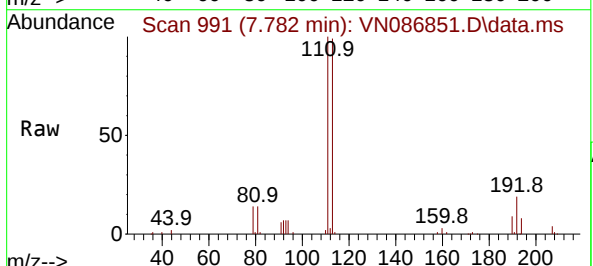
Tgt Ion:113 Resp: 129193

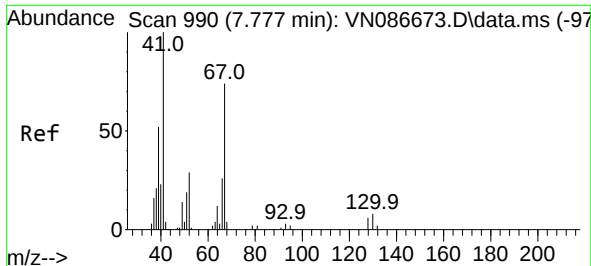
Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.2

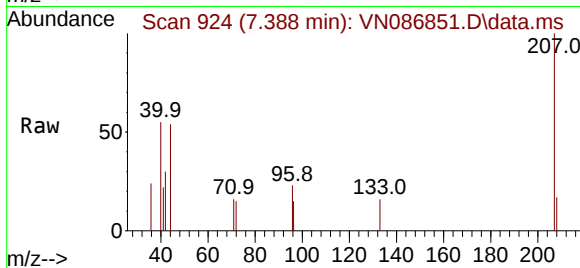
192 18.1 13.8 20.8



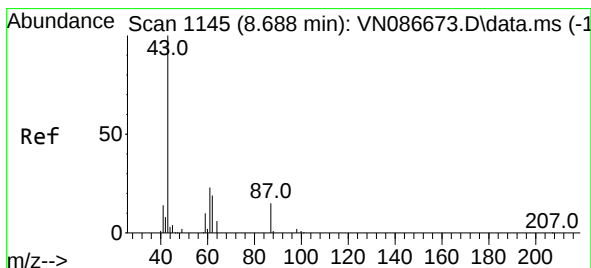
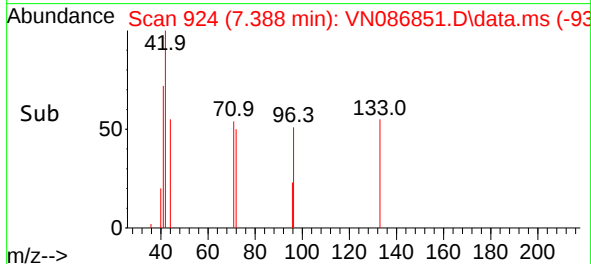
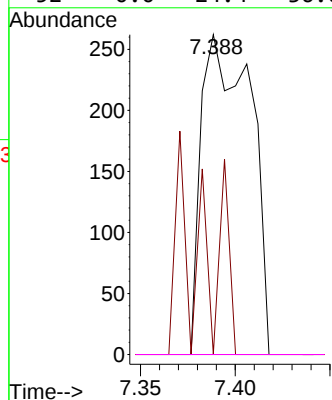


#41
Methacrylonitrile
Concen: 0.239 ug/l
RT: 7.388 min Scan# 91
Delta R.T. -0.388 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#12

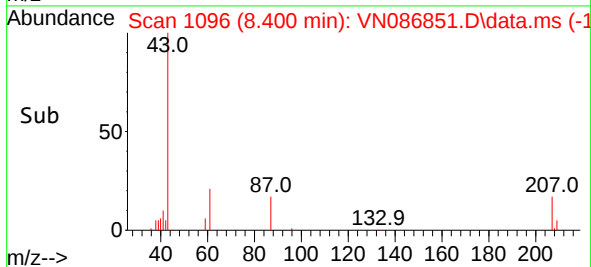
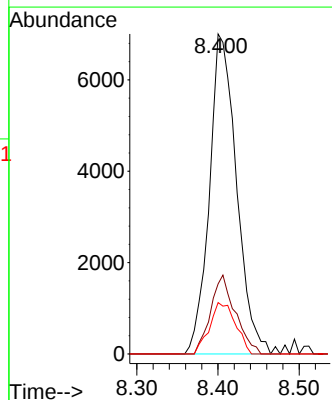
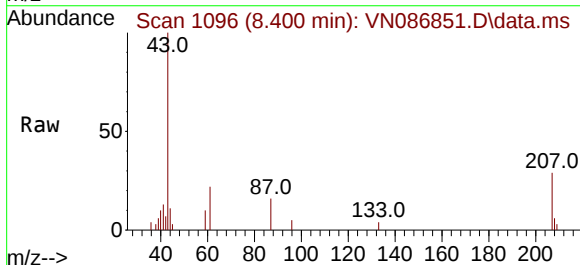


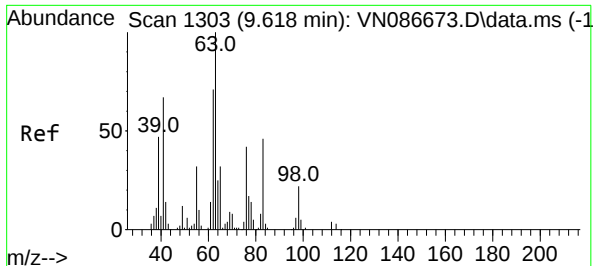
Tgt Ion:	41	Resp:	473
Ion	Ratio	Lower	Upper
41	100		
39	13.7	44.9	67.3#
67	0.0	63.4	95.0#
52	0.0	24.4	36.6#



#43
Isopropyl Acetate
Concen: 2.223 ug/l
RT: 8.400 min Scan# 1096
Delta R.T. -0.288 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

Tgt Ion:	43	Resp:	16324
Ion	Ratio	Lower	Upper
43	100		
61	22.3	21.4	32.2
87	15.3	11.1	16.7





#45

1,2-Dichloropropane

Concen: 0.673 ug/l

RT: 9.582 min Scan# 11

Delta R.T. -0.035 min

Lab File: VN086851.D

Acq: 03 Jun 2025 18:36

Instrument :

MSVOA_N

ClientSampleId :

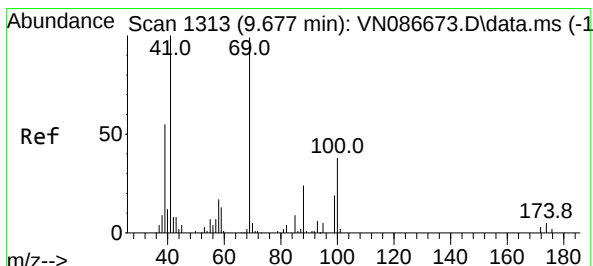
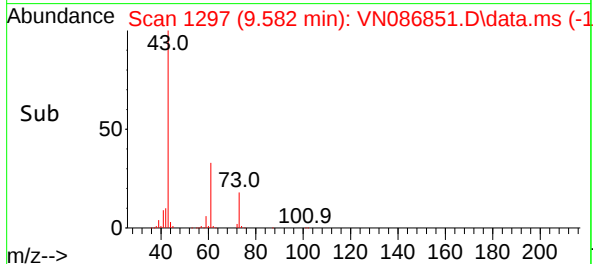
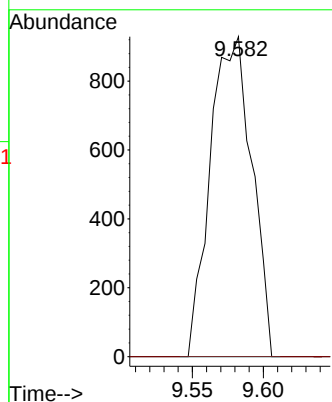
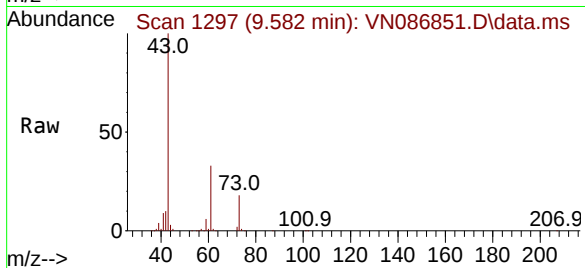
PB168225ZHE#12

Tgt Ion: 63 Resp: 1892

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 38.597 ug/l

RT: 9.576 min Scan# 1296

Delta R.T. -0.100 min

Lab File: VN086851.D

Acq: 03 Jun 2025 18:36

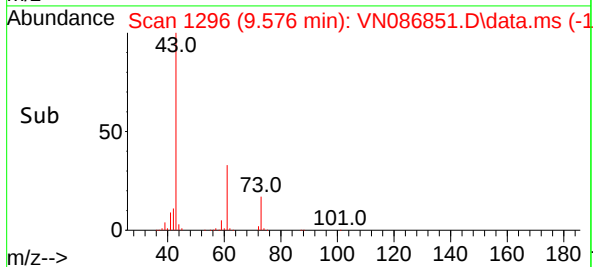
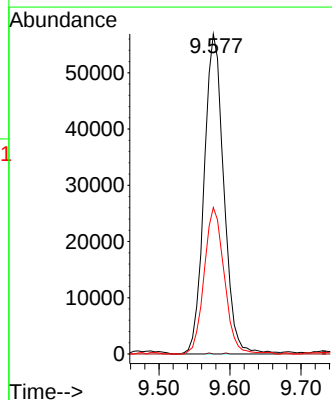
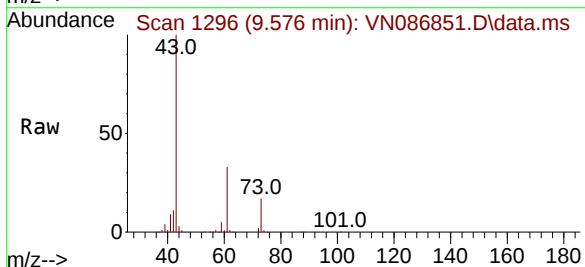
Tgt Ion: 41 Resp: 109820

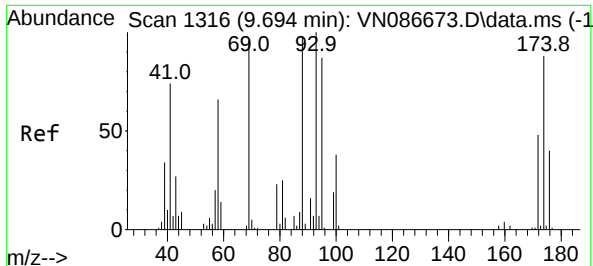
Ion Ratio Lower Upper

41 100

69 0.1 74.1 111.1#

39 46.8 44.1 66.1





#49

1,4-Dioxane

Concen: 7.353 ug/l

RT: 9.512 min Scan# 1

Delta R.T. -0.182 min

Lab File: VN086851.D

Acq: 03 Jun 2025 18:36

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#12

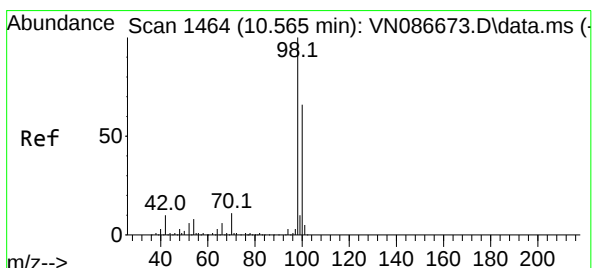
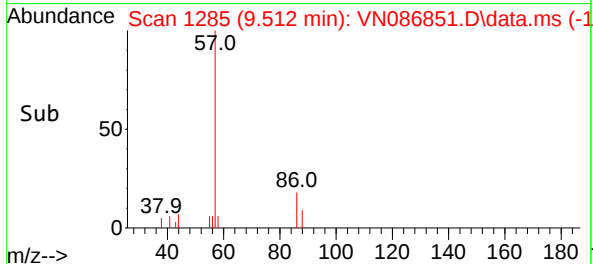
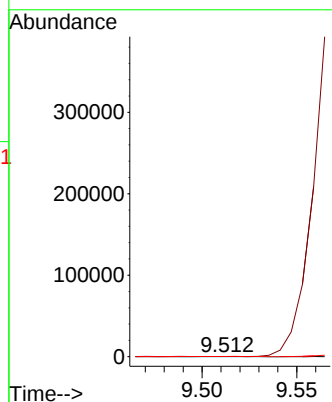
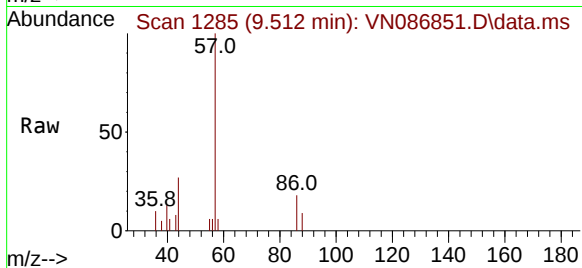
Tgt Ion: 88 Resp: 443

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 0.0 55.3 82.9#



#50

Toluene-d8

Concen: 51.322 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.118 min

Lab File: VN086851.D

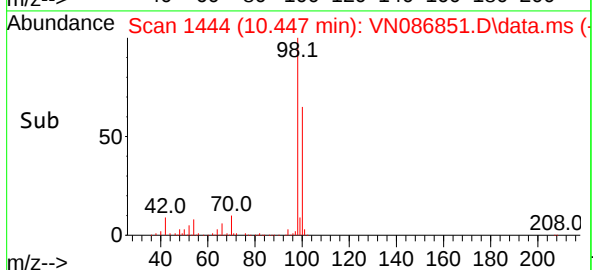
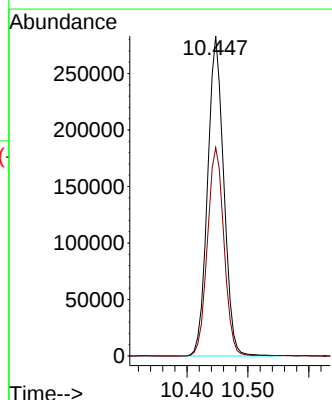
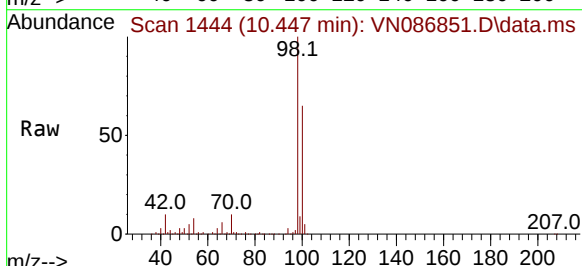
Acq: 03 Jun 2025 18:36

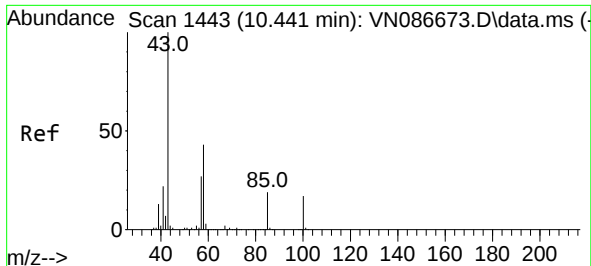
Tgt Ion: 98 Resp: 522810

Ion Ratio Lower Upper

98 100

100 66.5 52.9 79.3

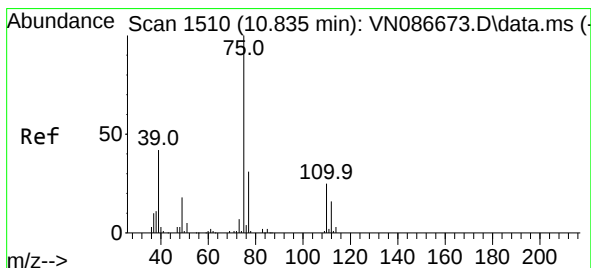
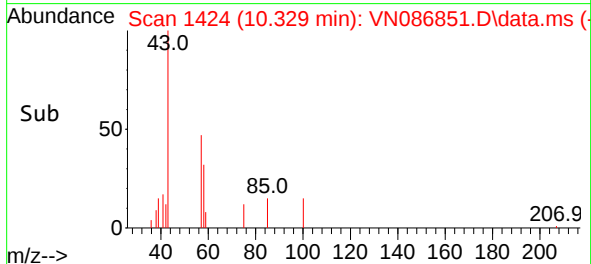
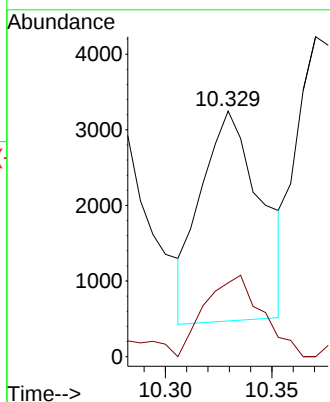
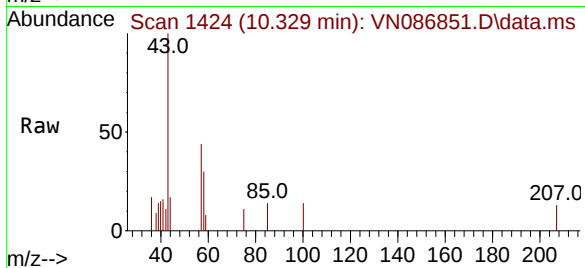




#51
4-Methyl-2-Pentanone
Concen: 1.456 ug/l
RT: 10.329 min Scan# 1443
Delta R.T. -0.112 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

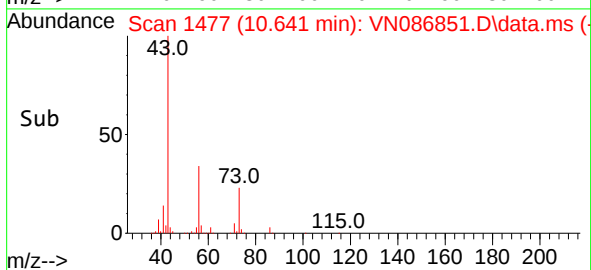
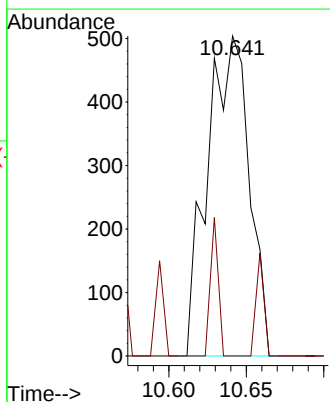
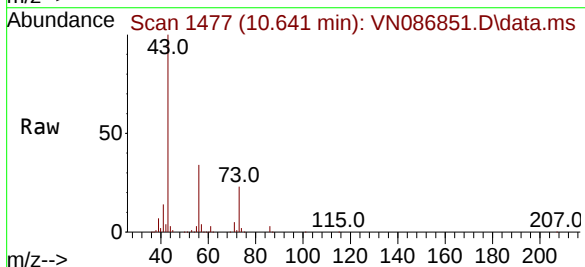
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#12

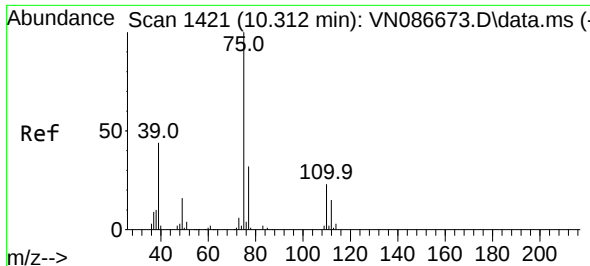
Tgt Ion: 43 Resp: 5393
Ion Ratio Lower Upper
43 100
58 37.0 33.9 50.9



#53
t-1,3-Dichloropropene
Concen: 0.228 ug/l
RT: 10.641 min Scan# 1477
Delta R.T. -0.194 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

Tgt Ion: 75 Resp: 944
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#

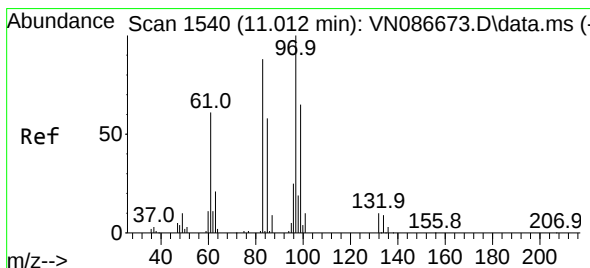
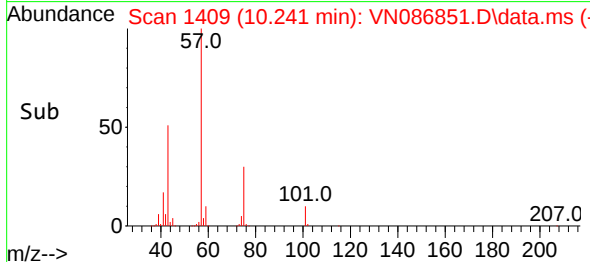
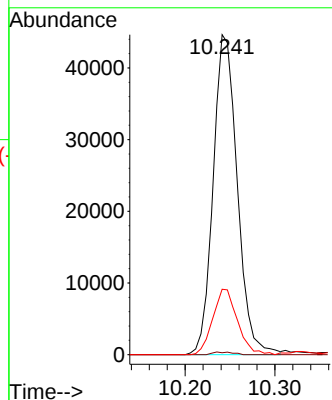
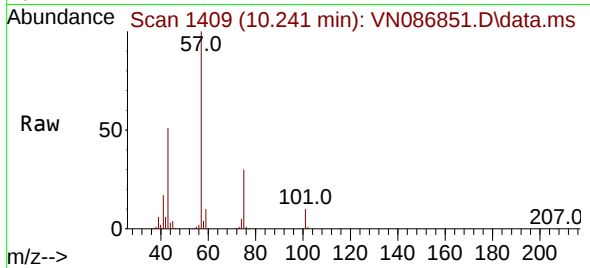




#54
cis-1,3-Dichloropropene
Concen: 18.471 ug/l
RT: 10.241 min Scan# 1409
Delta R.T. -0.071 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

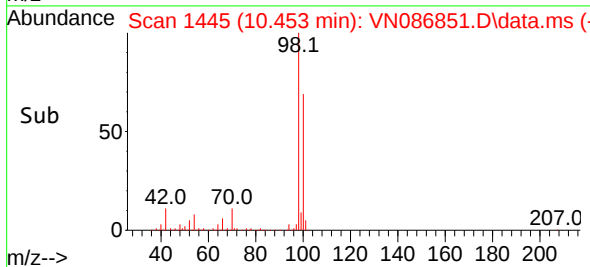
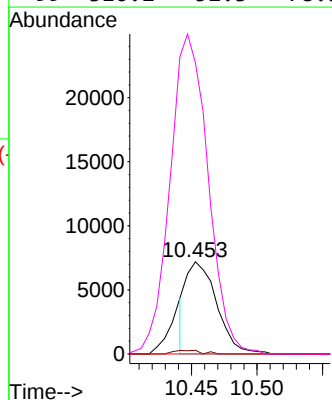
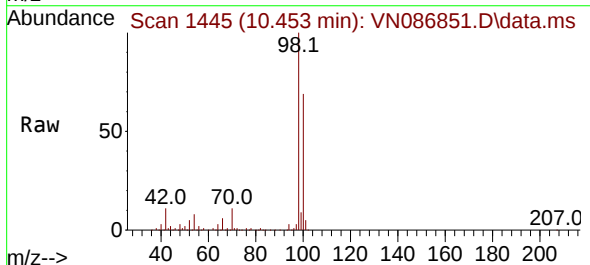
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#12

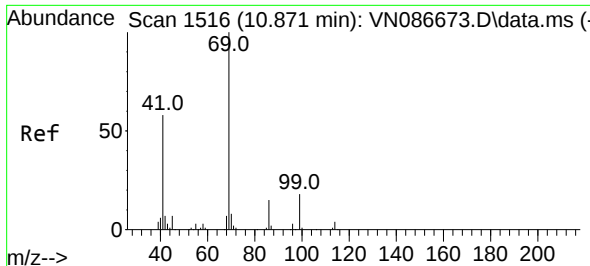
Tgt Ion: 75 Resp: 83401
Ion Ratio Lower Upper
75 100
77 0.6 25.3 37.9#
39 20.5 35.2 52.8#



#55
1,1,2-Trichloroethane
Concen: 4.240 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.559 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

Tgt Ion: 97 Resp: 11627
Ion Ratio Lower Upper
97 100
83 4.1 70.4 105.6#
85 0.0 46.1 69.1#
99 316.2 52.3 78.5#

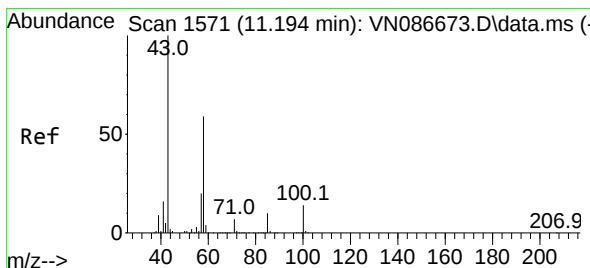
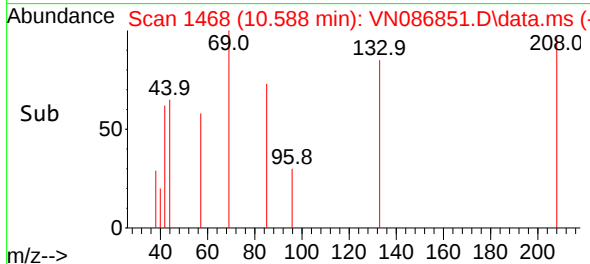
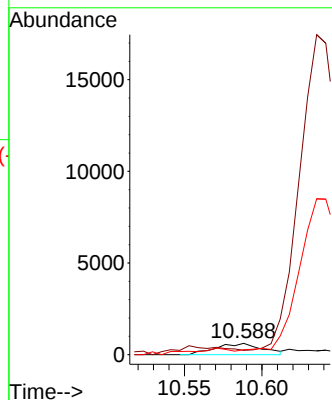
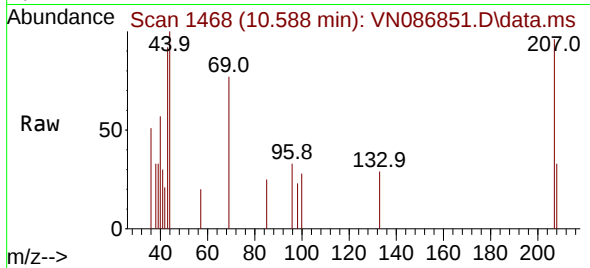




#56
Ethyl methacrylate
Concen: 0.290 ug/l
RT: 10.588 min Scan# 1468
Delta R.T. -0.282 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

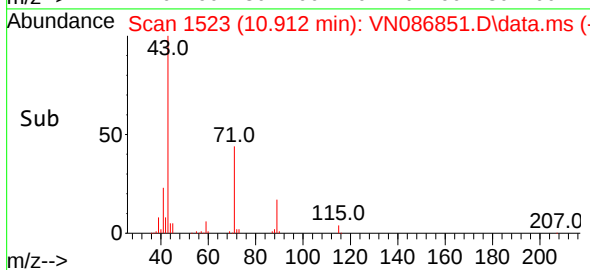
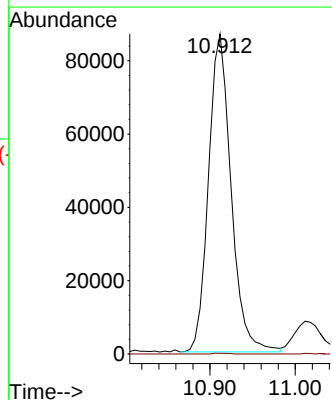
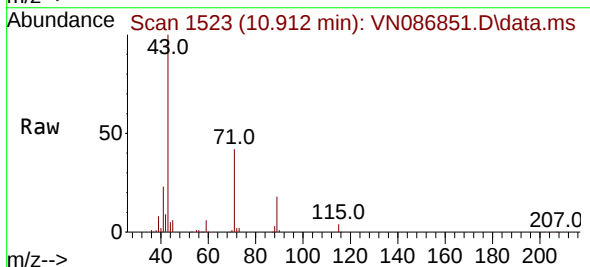
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#12

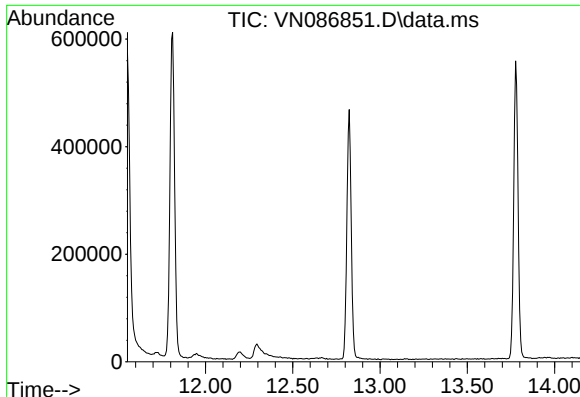
Tgt Ion: 69 Resp: 1276
Ion Ratio Lower Upper
69 100
41 0.0 47.4 71.0#
39 52.9 24.0 36.0#



#59
2-Hexanone
Concen: 59.062 ug/l
RT: 10.912 min Scan# 1523
Delta R.T. -0.282 min
Lab File: VN086851.D
Acq: 03 Jun 2025 18:36

Tgt Ion: 43 Resp: 159705
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.5#



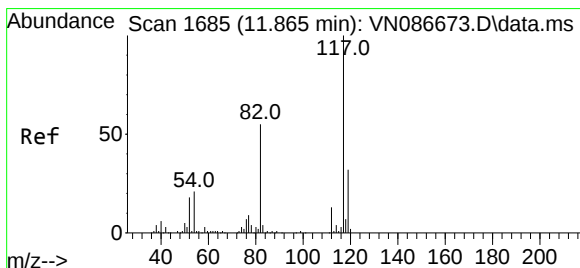
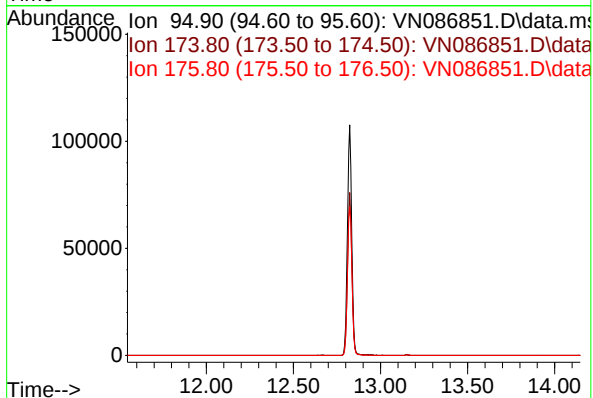


#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 12.85 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#12

Tgt Ion: 95

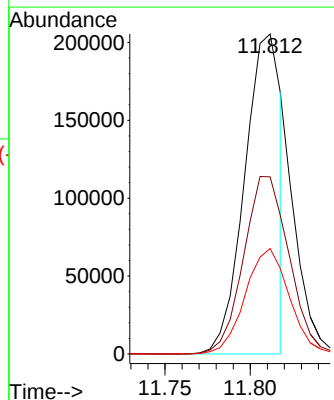
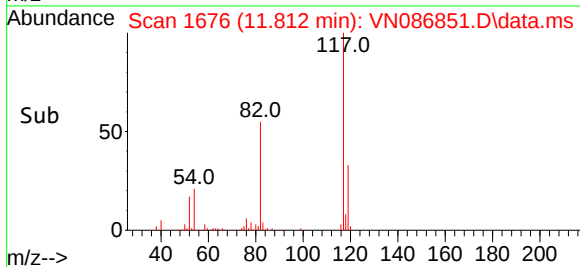
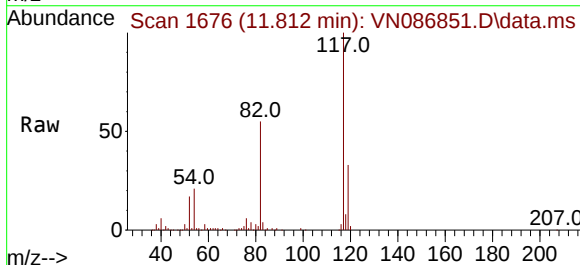
Sig	Exp Ratio
95	100
174	72.7
176	68.9

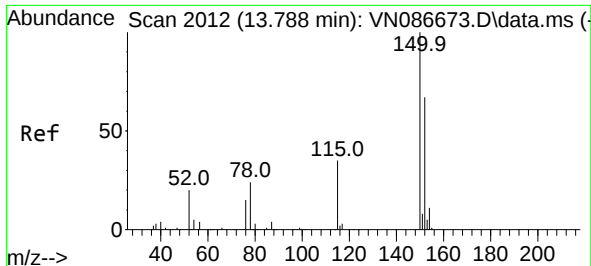


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.812 min Scan# 1676
 Delta R.T. -0.053 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

Tgt Ion: 117 Resp: 304003

Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.2	66.2
119	32.9	25.4	38.2

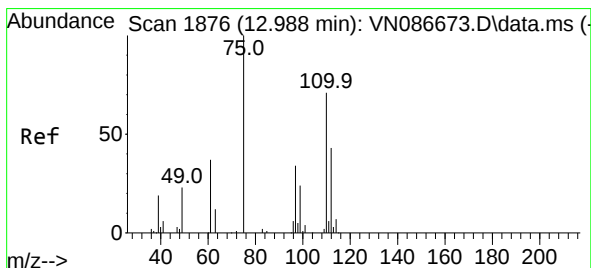
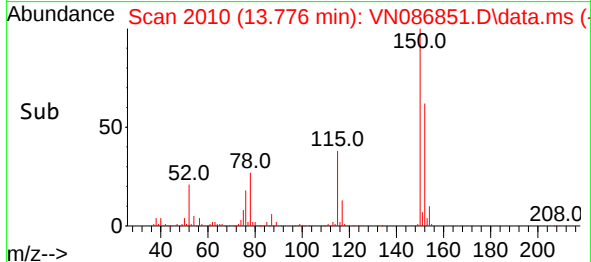
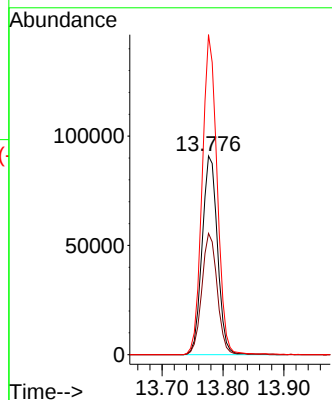
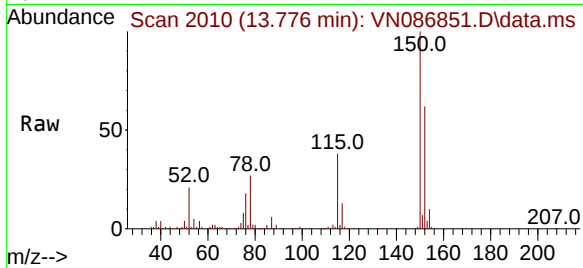




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.776 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

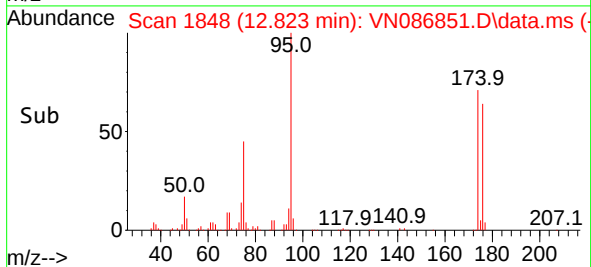
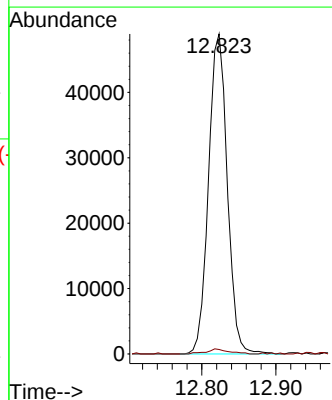
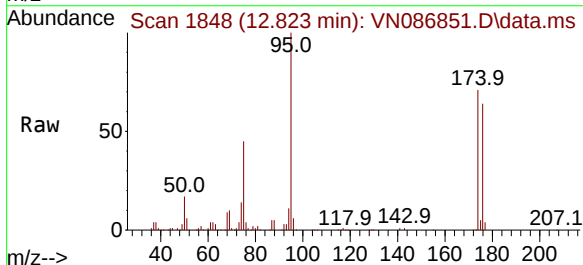
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#12

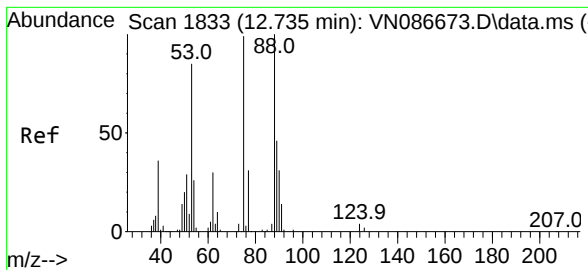
Tgt Ion:152 Resp: 159505
 Ion Ratio Lower Upper
 152 100
 115 60.9 30.0 90.1
 150 156.2 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 23.862 ug/l
 RT: 12.823 min Scan# 1848
 Delta R.T. -0.165 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

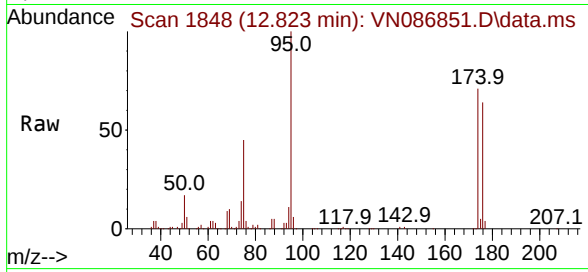
Tgt Ion: 75 Resp: 86078
 Ion Ratio Lower Upper
 75 100
 77 1.9 96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.219 ug/l
 RT: 12.823 min Scan# 11
 Delta R.T. 0.088 min
 Lab File: VN086851.D
 Acq: 03 Jun 2025 18:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#12



Tgt Ion: 75 Resp: 86078
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.1 32.4 48.6#

