

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086844.D
 Acq On : 03 Jun 2025 15:45
 Operator : JC\MD
 Sample : PB168225ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#05

Quant Time: Jun 04 02:00:48 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)

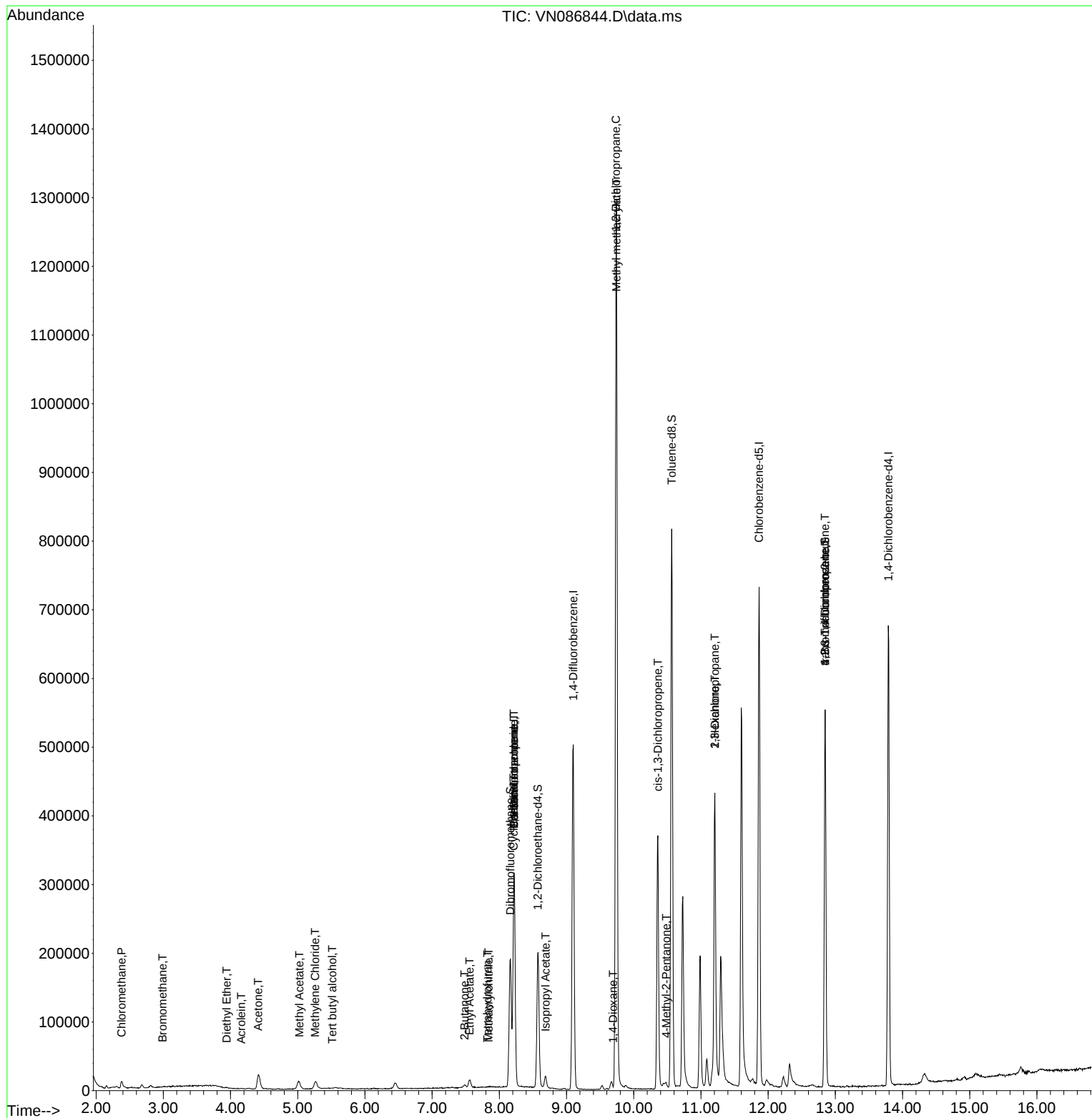
Internal Standards						
1) Pentafluorobenzene	8.218	168	242731	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	465324	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	438882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	195413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	164708	49.106	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.220%		
35) Dibromofluoromethane	8.165	113	144528	52.154	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.300%		
50) Toluene-d8	10.565	98	590758	51.442	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.880%		
62) 4-Bromofluorobenzene	12.847	95	216850	53.478	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.960%		
Target Compounds					Qvalue	
3) Chloromethane	2.377	50	18031	4.548	ug/l	91
5) Bromomethane	2.989	94	427	0.208	ug/l #	56
8) Diethyl Ether	3.942	74	439	0.250	ug/l	77
11) Tert butyl alcohol	5.512	59	123	0.201	ug/l #	73
13) Acrolein	4.159	56	438	0.671	ug/l #	63
16) Acetone	4.412	43	40078	31.943	ug/l	90
18) Methyl Acetate	5.024	43	25480	7.256	ug/l	98
20) Methylene Chloride	5.259	84	9123	2.755	ug/l #	86
25) 2-Butanone	7.483	43	6768	3.491	ug/l	97
29) Tetrahydrofuran	7.824	42	304	0.240	ug/l #	53
31) Cyclohexane	8.212	56	4450	0.884	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	18769	4.592	ug/l #	48
37) Ethyl Acetate	7.559	43	17667	4.279	ug/l	99
38) Carbon Tetrachloride	8.218	117	23788	5.906	ug/l #	16
41) Methacrylonitrile	7.842	41	891	0.400	ug/l #	21
43) Isopropyl Acetate	8.689	43	20445	2.470	ug/l	92
45) 1,2-Dichloropropane	9.736	63	1783	0.563	ug/l #	42
48) Methyl methacrylate	9.741	41	108563	33.846	ug/l #	35
49) 1,4-Dioxane	9.694	88	732	10.777	ug/l #	73
51) 4-Methyl-2-Pentanone	10.483	43	11971	2.868	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	79102	15.540	ug/l #	56
57) 1,3-Dichloropropane	11.206	76	5282	0.992	ug/l #	42
59) 2-Hexanone	11.206	43	83763	27.478	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	103394	23.395	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	103394	59.042	ug/l #	15

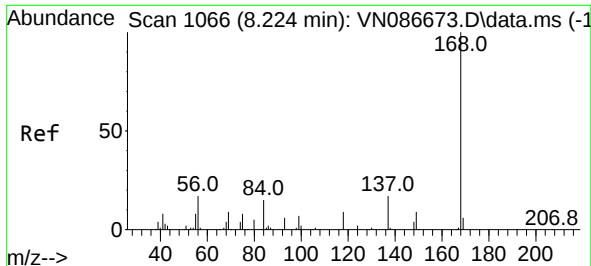
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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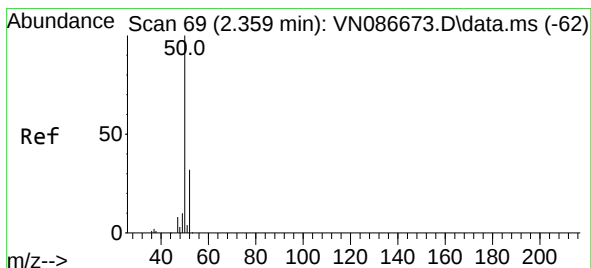
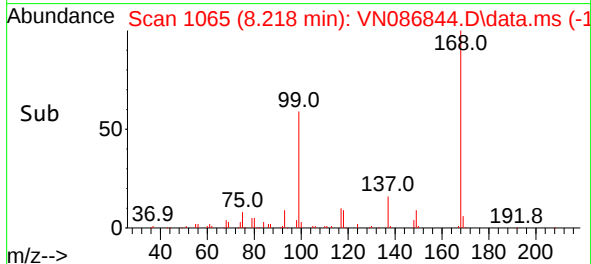
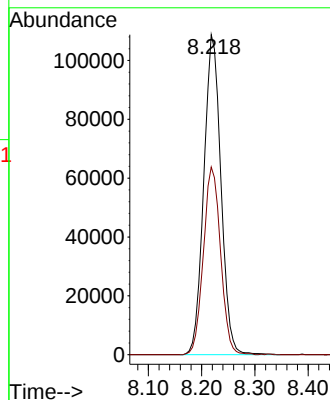
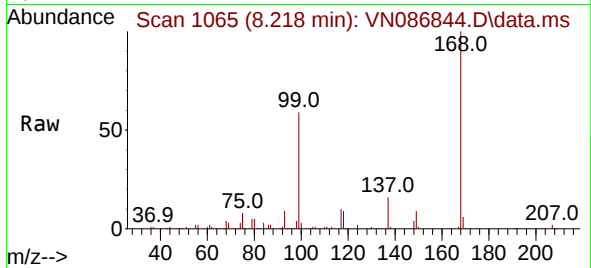




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

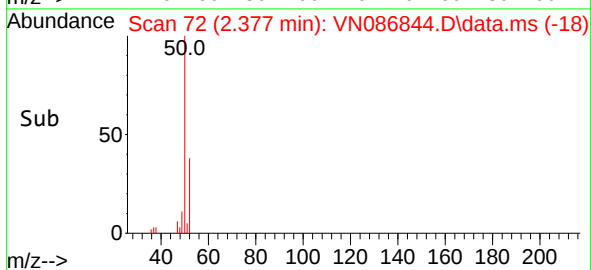
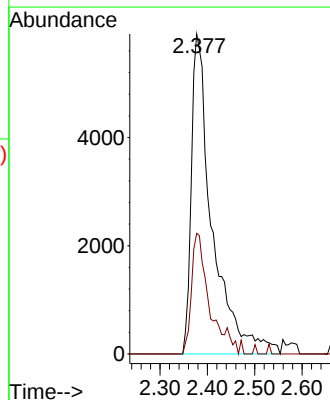
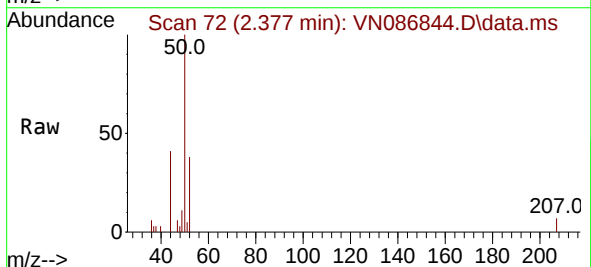
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#05

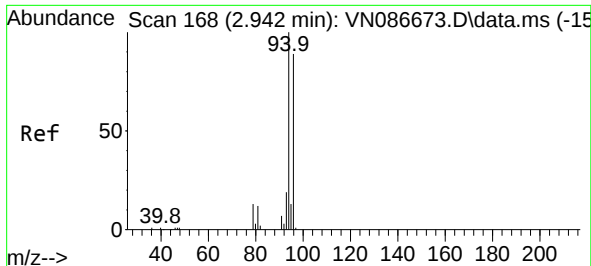
Tgt Ion:168 Resp: 242731
Ion Ratio Lower Upper
168 100
99 58.6 47.0 70.4



#3
Chloromethane
Concen: 4.548 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

Tgt Ion: 50 Resp: 18031
Ion Ratio Lower Upper
50 100
52 37.7 25.9 38.9

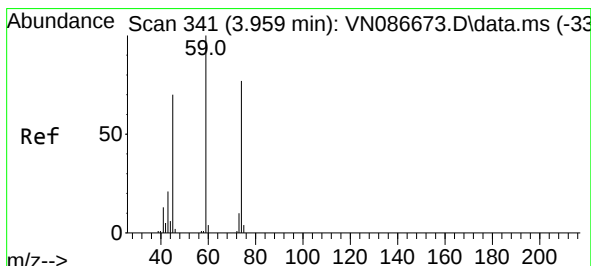
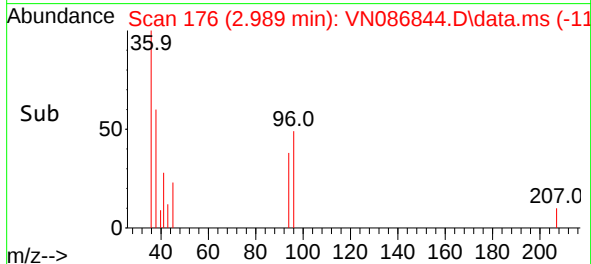
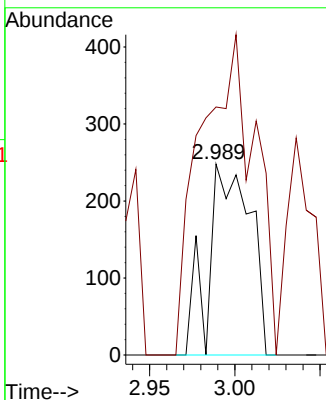
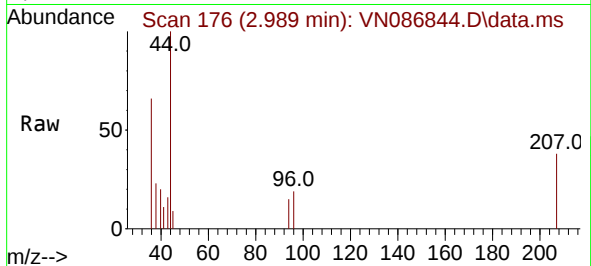




#5
Bromomethane
Concen: 0.208 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

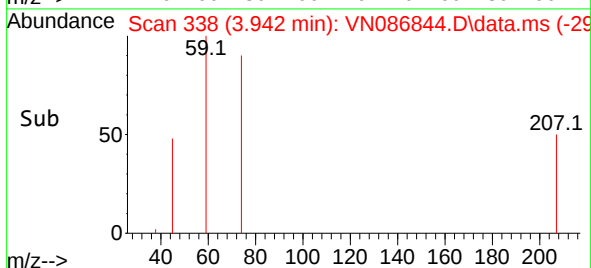
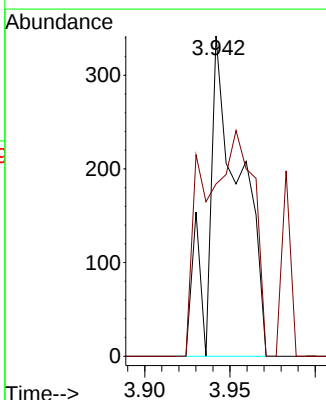
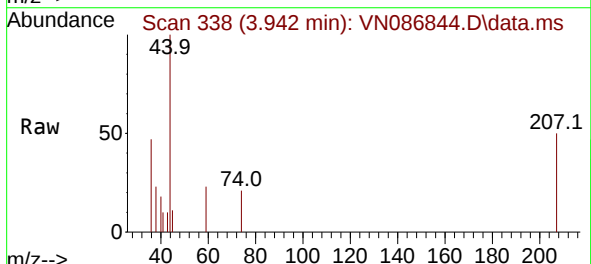
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#05

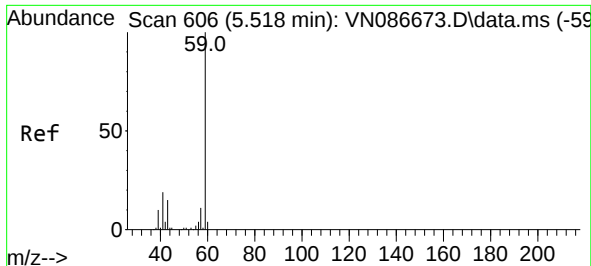
Tgt Ion: 94 Resp: 427
Ion Ratio Lower Upper
94 100
96 129.8 71.2 106.8#



#8
Diethyl Ether
Concen: 0.250 ug/l
RT: 3.942 min Scan# 338
Delta R.T. -0.018 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

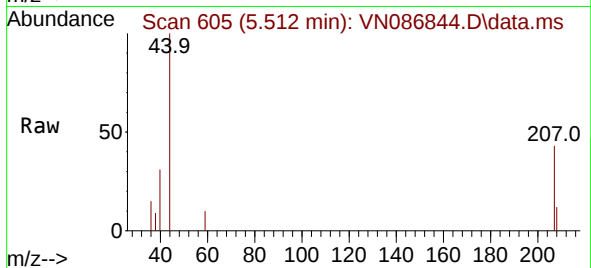
Tgt Ion: 74 Resp: 439
Ion Ratio Lower Upper
74 100
45 111.6 45.0 135.0



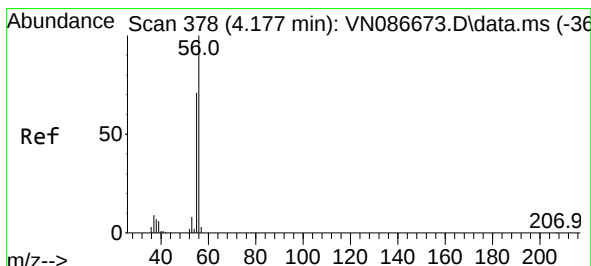
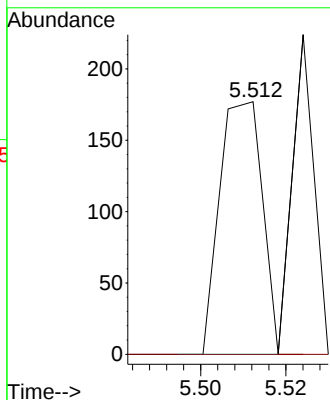
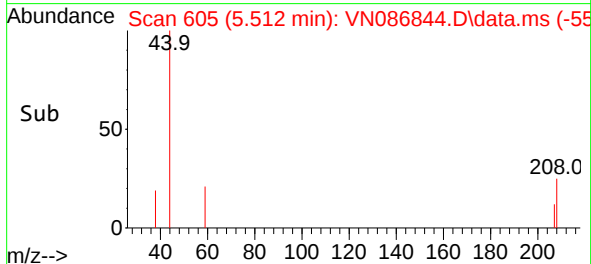


#11
Tert butyl alcohol
Concen: 0.201 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

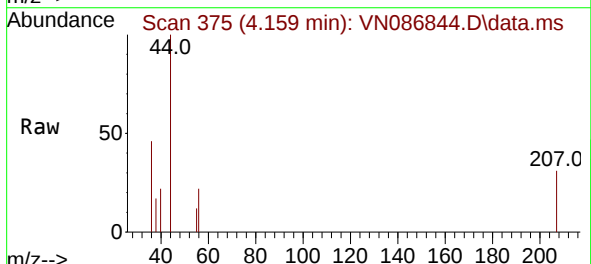
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#05



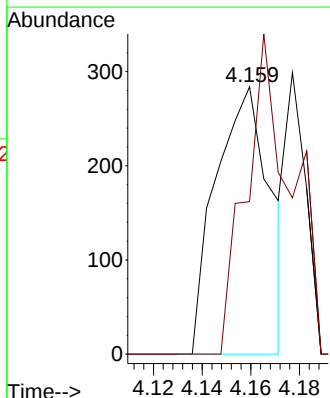
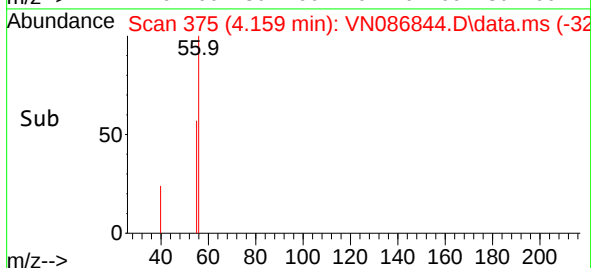
Tgt Ion: 59 Resp: 123
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

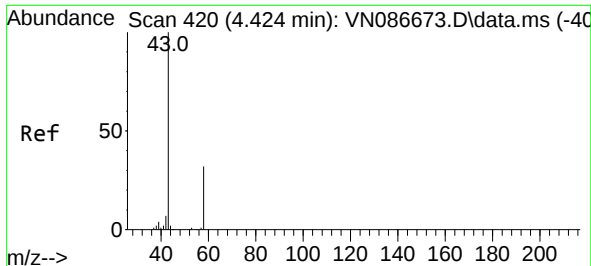


#13
Acrolein
Concen: 0.671 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.018 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45



Tgt Ion: 56 Resp: 438
Ion Ratio Lower Upper
56 100
55 99.8 55.7 83.5#

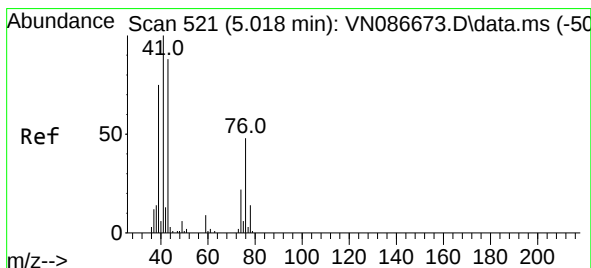
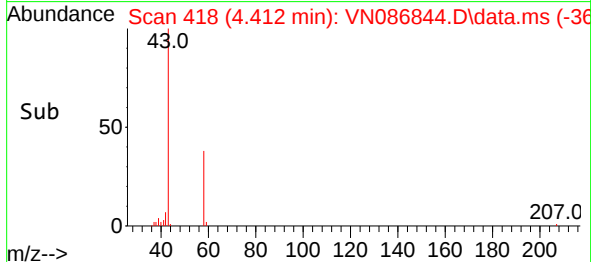
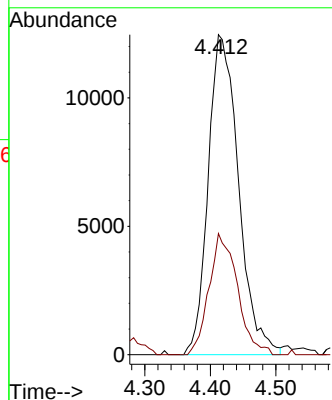
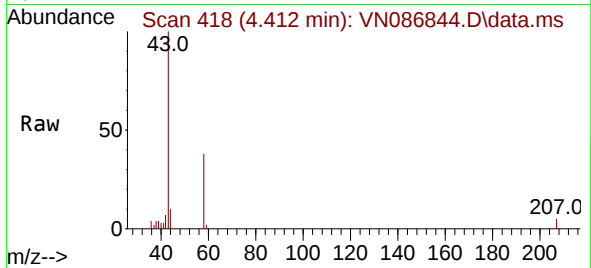




#16
Acetone
Concen: 31.943 ug/l
RT: 4.412 min Scan# 411
Delta R.T. -0.012 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

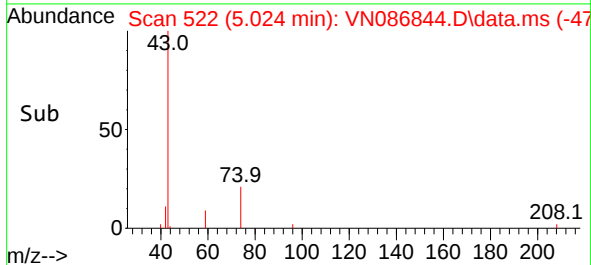
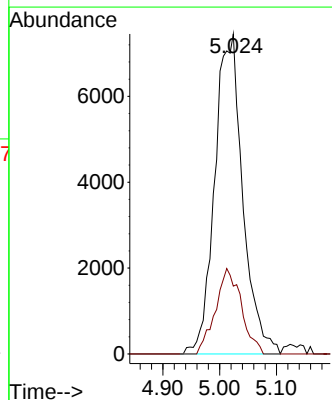
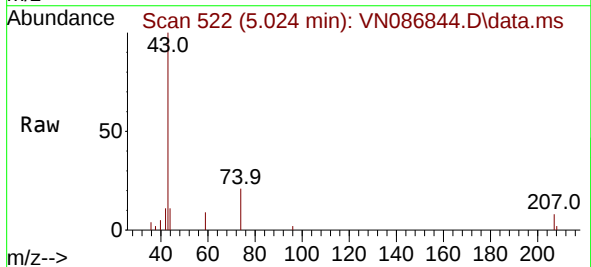
Instrument :
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ClientSampleId :
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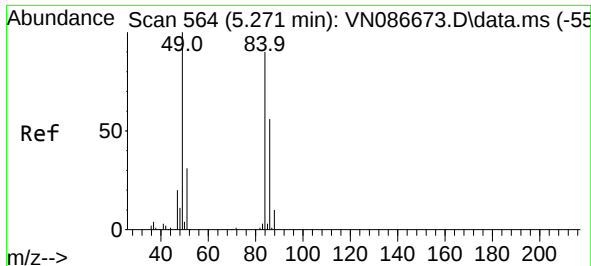
Tgt Ion: 43 Resp: 40078
Ion Ratio Lower Upper
43 100
58 37.9 25.8 38.6



#18
Methyl Acetate
Concen: 7.256 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

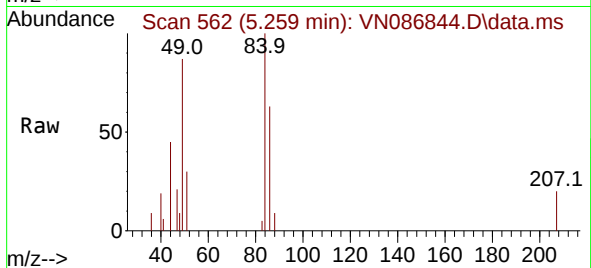
Tgt Ion: 43 Resp: 25480
Ion Ratio Lower Upper
43 100
74 24.7 20.5 30.7



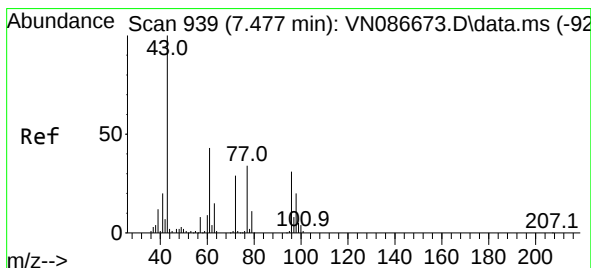
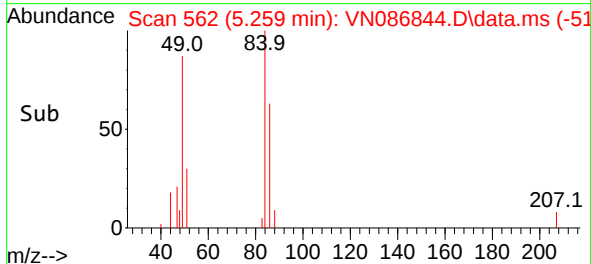
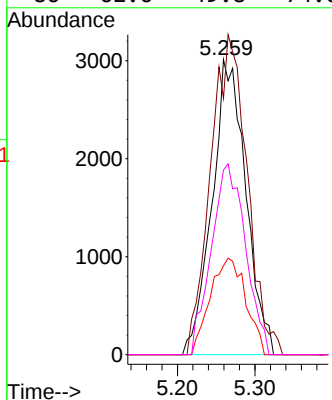


#20
Methylene Chloride
Concen: 2.755 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

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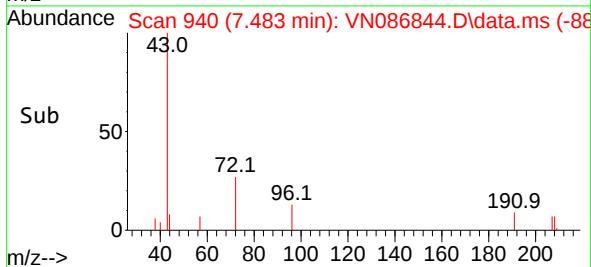
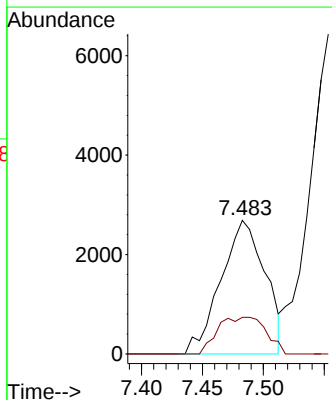
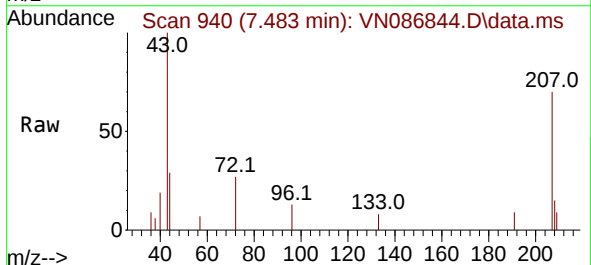


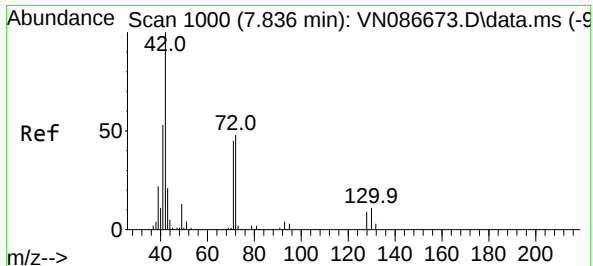
Tgt Ion:	84	Resp:	9123
Ion	Ratio	Lower	Upper
84	100		
49	86.9	88.8	133.2#
51	30.1	27.8	41.6
86	62.6	49.8	74.6



#25
2-Butanone
Concen: 3.491 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

Tgt Ion:	43	Resp:	6768
Ion	Ratio	Lower	Upper
43	100		
72	27.4	23.1	34.7





#29

Tetrahydrofuran

Concen: 0.240 ug/l

RT: 7.824 min Scan# 91

Delta R.T. -0.012 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#05

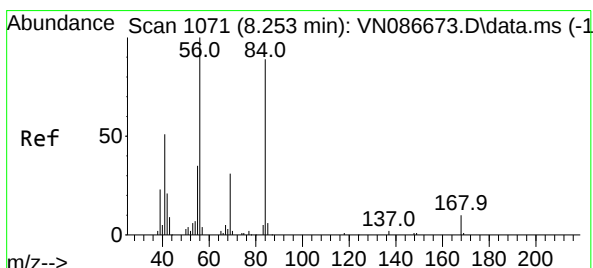
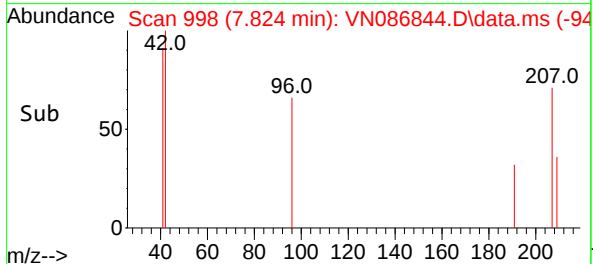
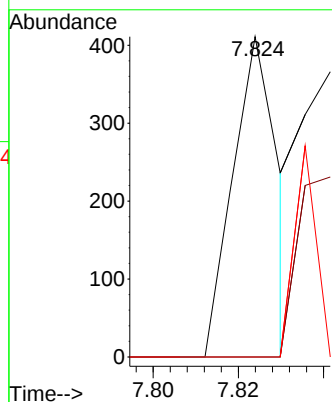
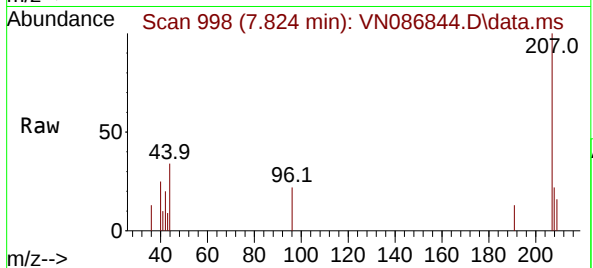
Tgt Ion: 42 Resp: 304

Ion Ratio Lower Upper

42 100

72 0.0 38.7 58.1#

71 31.6 36.2 54.4#



#31

Cyclohexane

Concen: 0.884 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.041 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

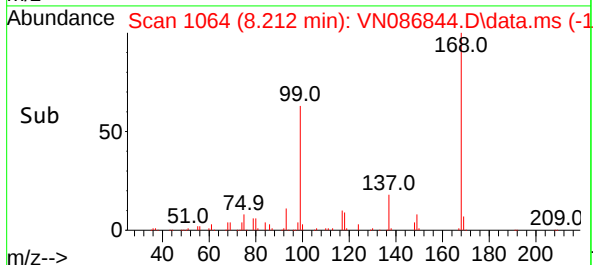
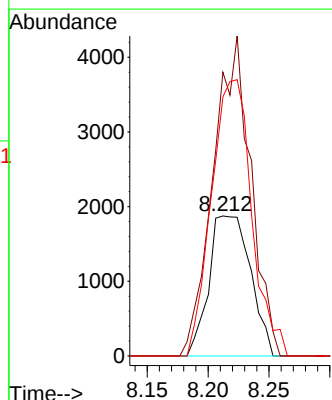
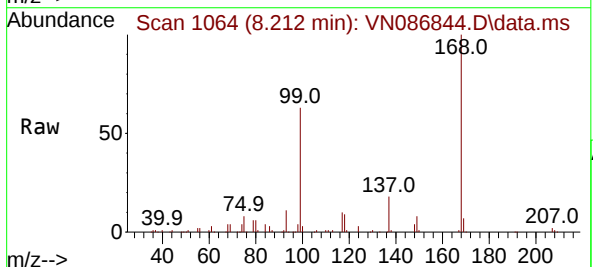
Tgt Ion: 56 Resp: 4450

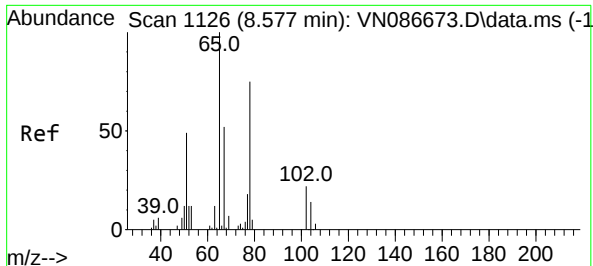
Ion Ratio Lower Upper

56 100

69 202.6 25.0 37.6#

84 185.0 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 49.106 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

Instrument :

MSVOA_N

ClientSampleId :

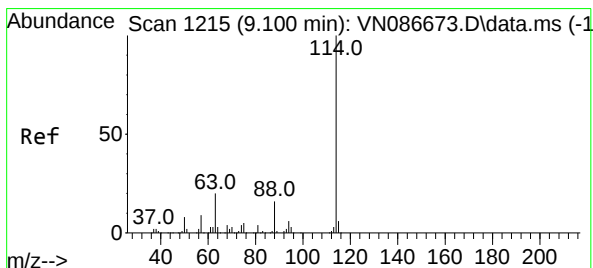
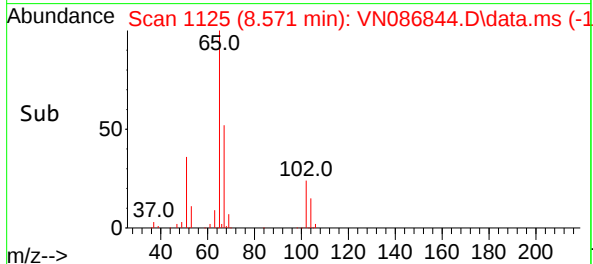
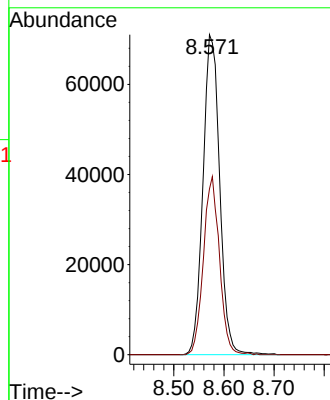
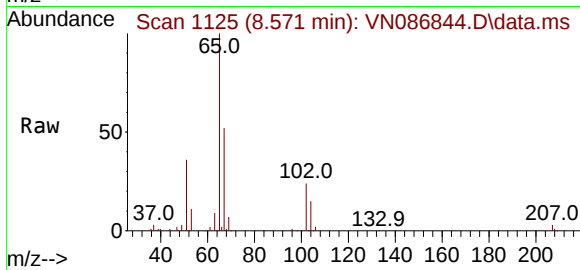
PB168225ZHE#05

Tgt Ion: 65 Resp: 164708

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: VN086844.D

Acq: 03 Jun 2025 15:45

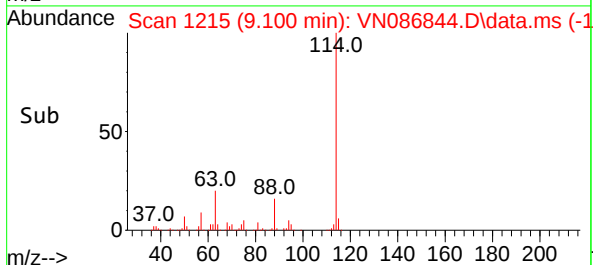
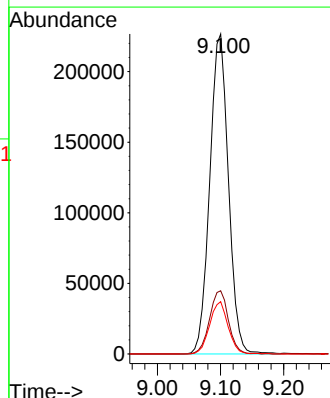
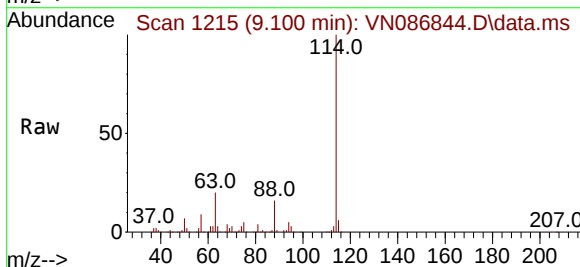
Tgt Ion: 114 Resp: 465324

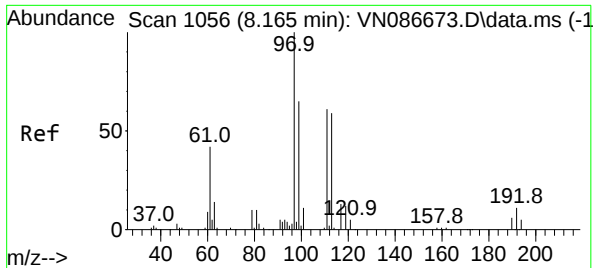
Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.2

88 16.4 0.0 31.2

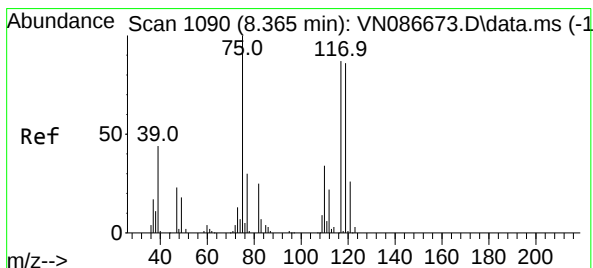
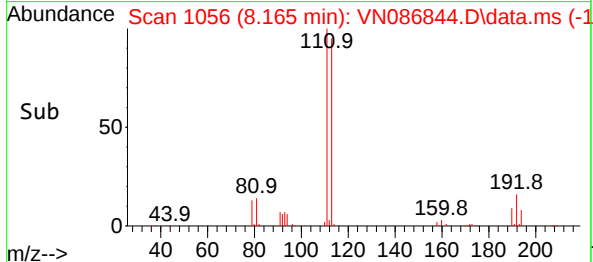
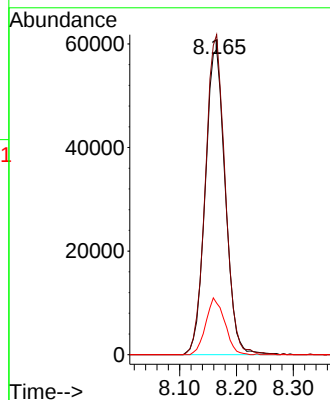
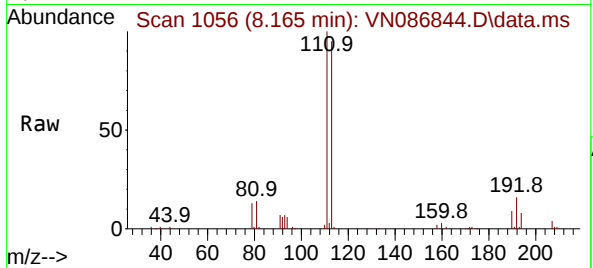




#35
Dibromofluoromethane
Concen: 52.154 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

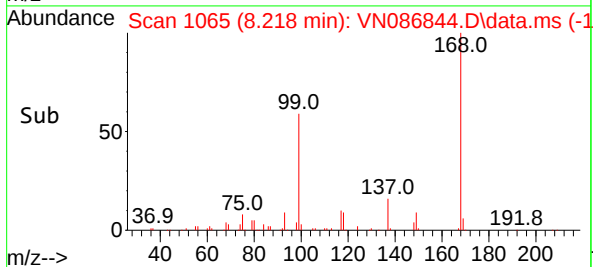
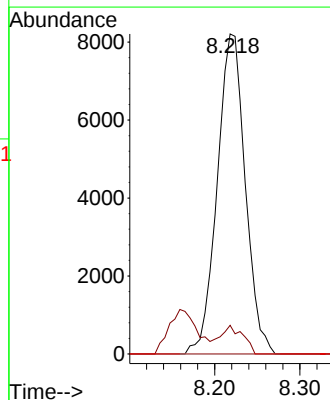
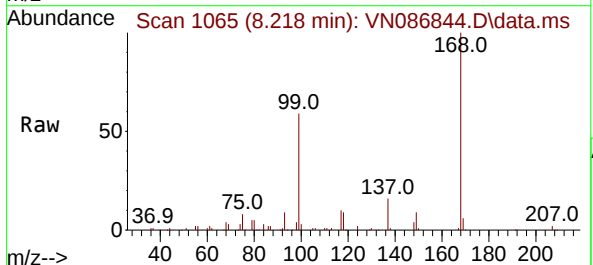
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#05

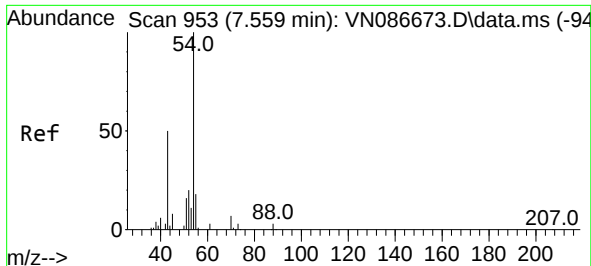
Tgt Ion:113 Resp: 144528
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.2
192 17.5 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.592 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

Tgt Ion: 75 Resp: 18769
Ion Ratio Lower Upper
75 100
110 7.4 17.5 52.5#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 4.279 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#05

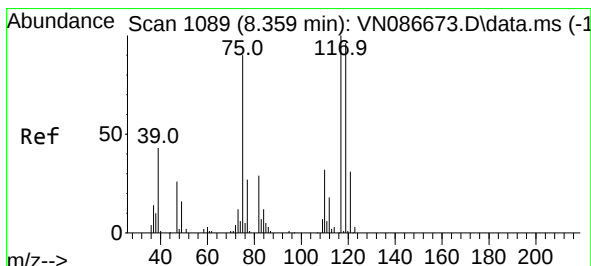
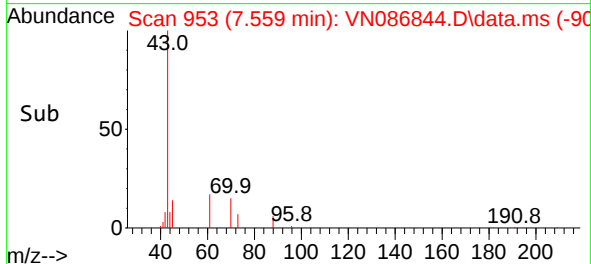
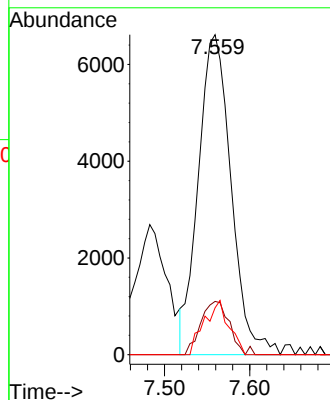
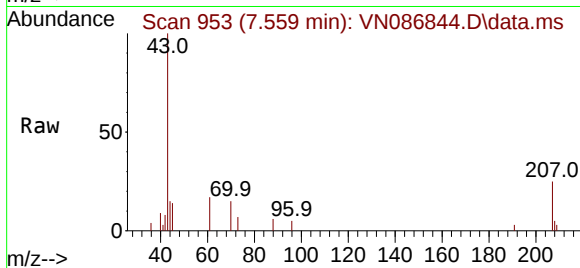
Tgt Ion: 43 Resp: 17667

Ion Ratio Lower Upper

43 100

61 14.6 11.6 17.4

70 12.8 9.4 14.0



#38

Carbon Tetrachloride

Concen: 5.906 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

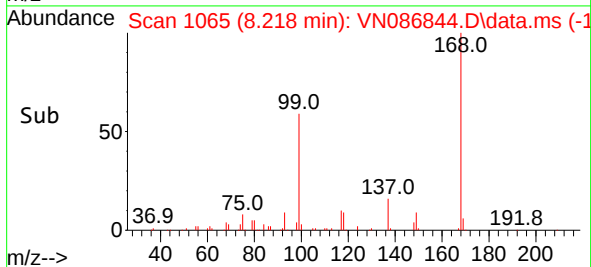
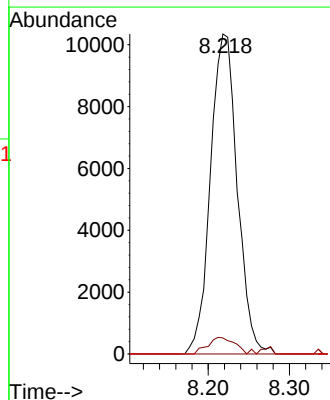
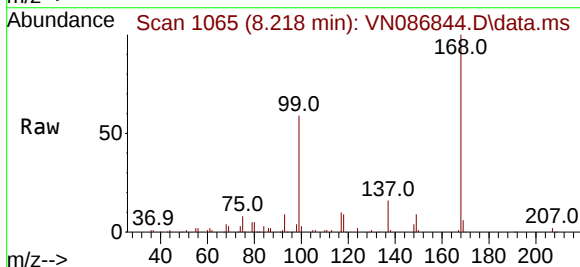
Tgt Ion: 117 Resp: 23788

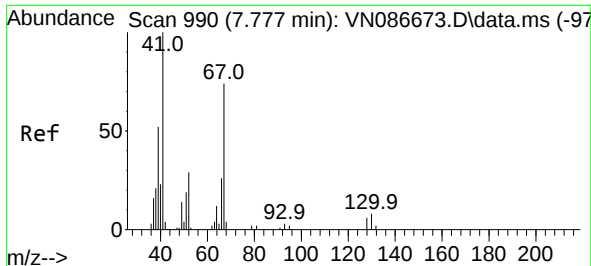
Ion Ratio Lower Upper

117 100

119 5.0 77.0 115.6#

121 0.0 25.0 37.6#

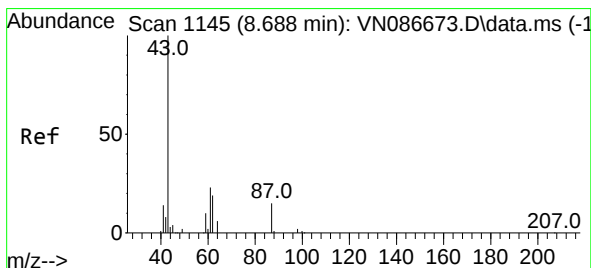
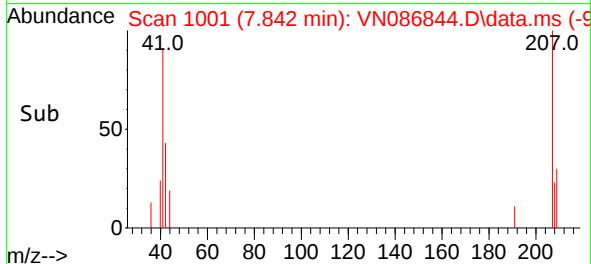
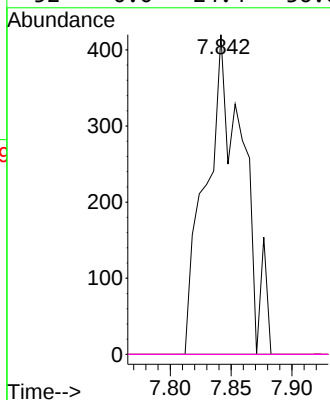
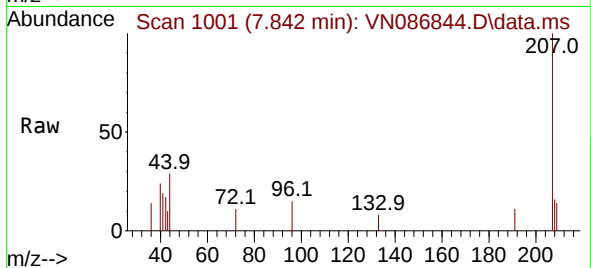




#41
Methacrylonitrile
Concen: 0.400 ug/l
RT: 7.842 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

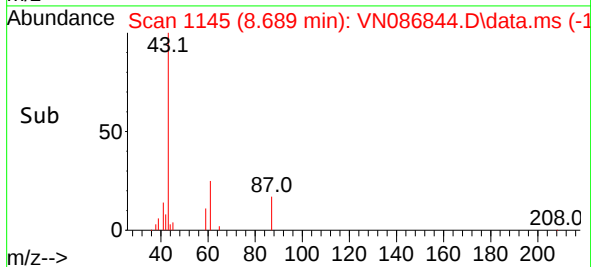
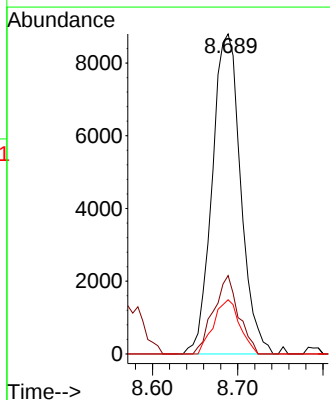
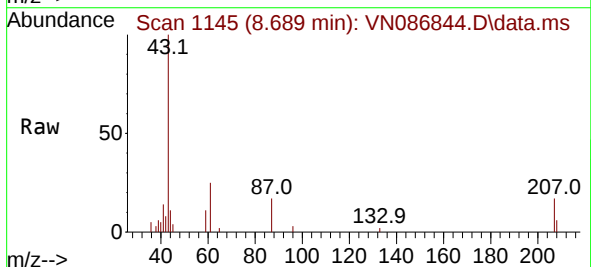
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#05

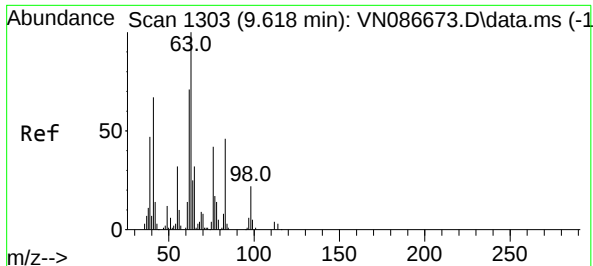
Tgt Ion: 41	Resp:	891
Ion	Ratio	Lower Upper
41	100	
39	0.0	44.9 67.3#
67	0.0	63.4 95.0#
52	0.0	24.4 36.6#



#43
Isopropyl Acetate
Concen: 2.470 ug/l
RT: 8.689 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

Tgt Ion: 43	Resp:	20445
Ion	Ratio	Lower Upper
43	100	
61	21.5	21.4 32.2
87	15.5	11.1 16.7





#45

1,2-Dichloropropane

Concen: 0.563 ug/l

RT: 9.736 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

Instrument :

MSVOA_N

ClientSampleId :

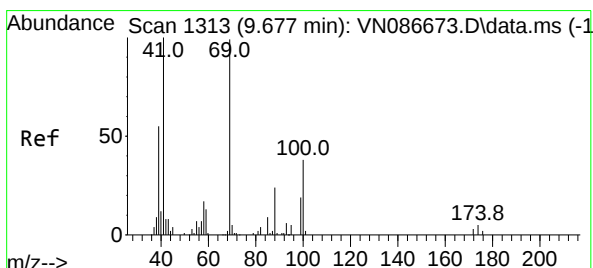
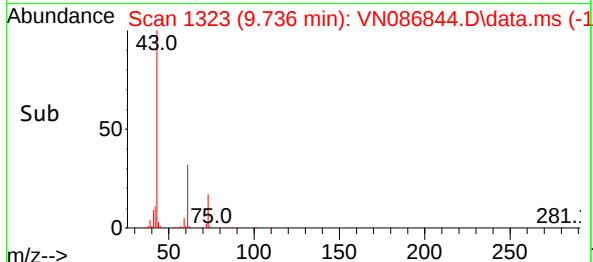
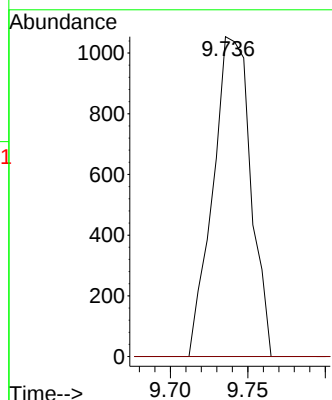
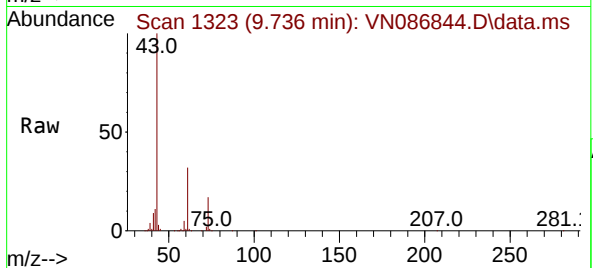
PB168225ZHE#05

Tgt Ion: 63 Resp: 1783

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 33.846 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

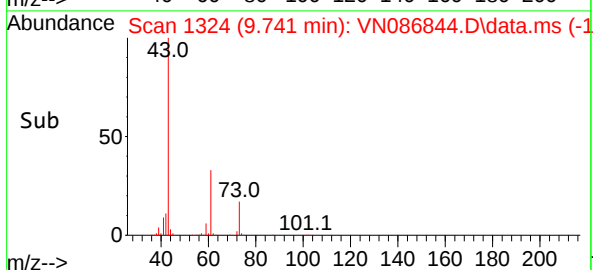
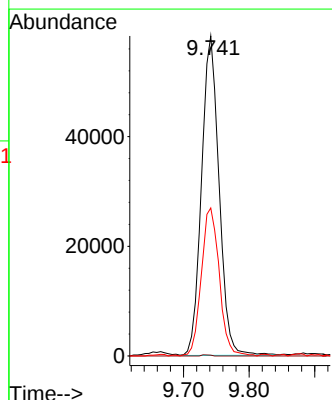
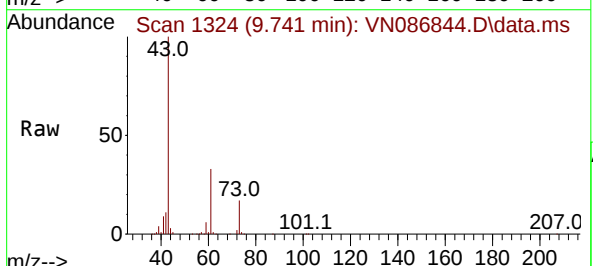
Tgt Ion: 41 Resp: 108563

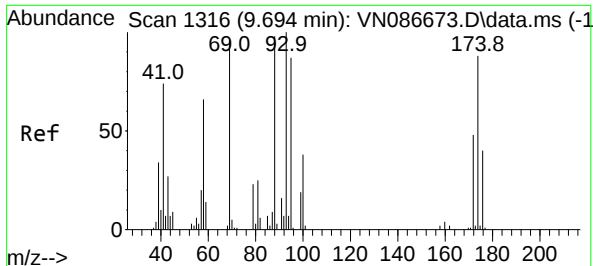
Ion Ratio Lower Upper

41 100

69 0.2 74.1 111.1#

39 47.4 44.1 66.1





#49

1,4-Dioxane

Concen: 10.777 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#05

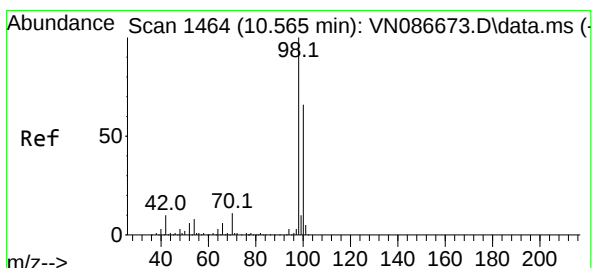
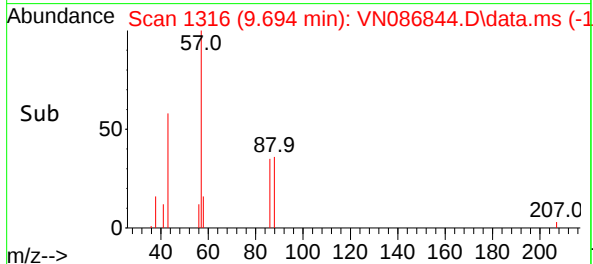
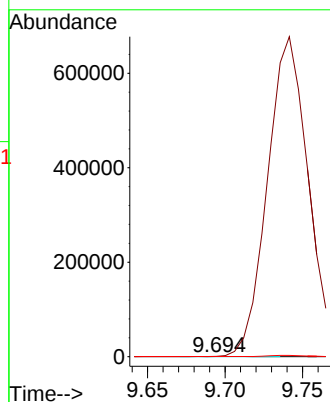
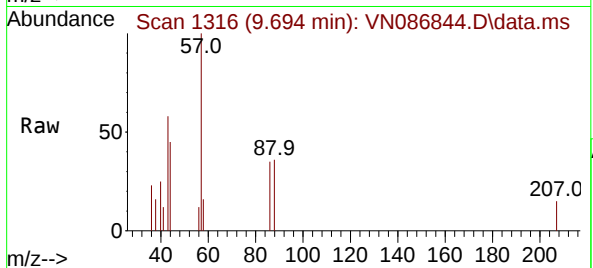
Tgt Ion: 88 Resp: 732

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 56.8 55.3 82.9



#50

Toluene-d8

Concen: 51.442 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086844.D

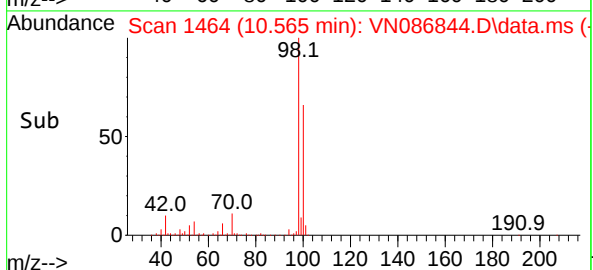
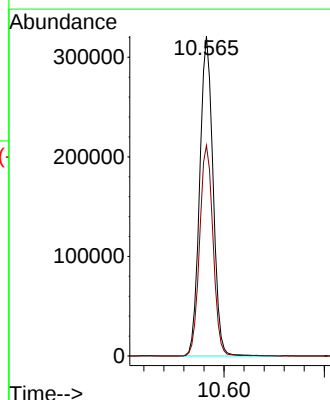
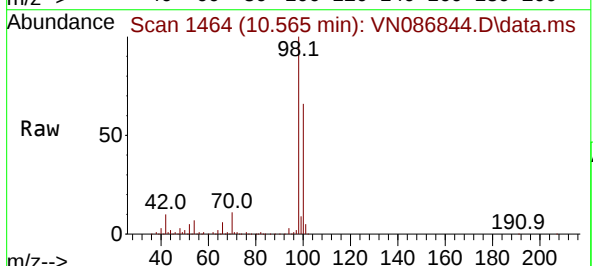
Acq: 03 Jun 2025 15:45

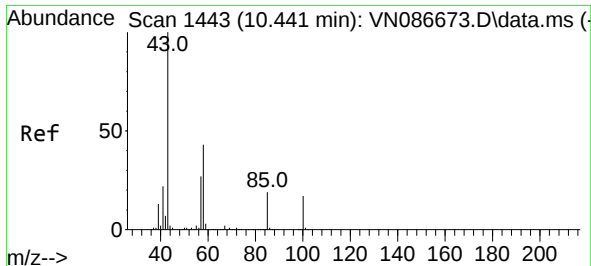
Tgt Ion: 98 Resp: 590758

Ion Ratio Lower Upper

98 100

100 66.4 52.9 79.3

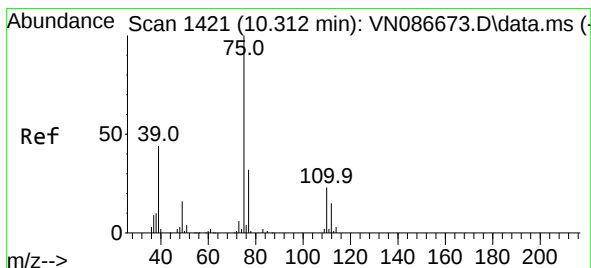
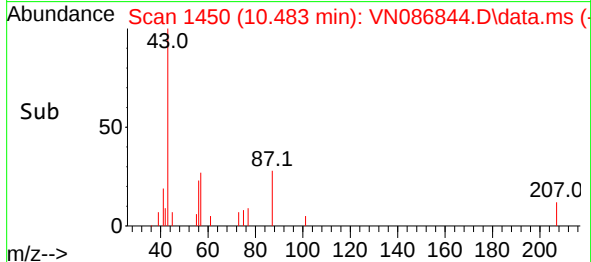
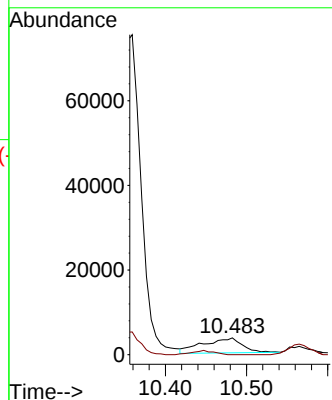
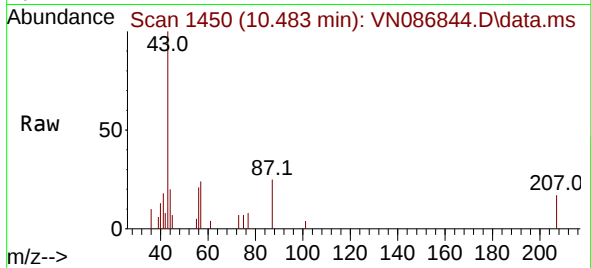




#51
4-Methyl-2-Pentanone
Concen: 2.868 ug/l
RT: 10.483 min Scan# 1443
Delta R.T. 0.041 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

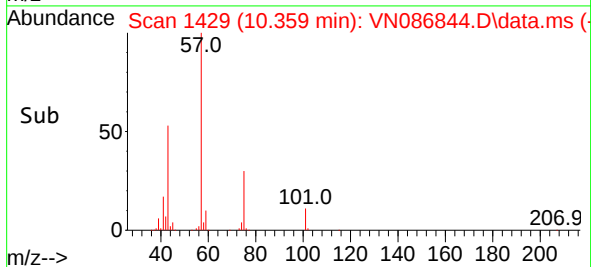
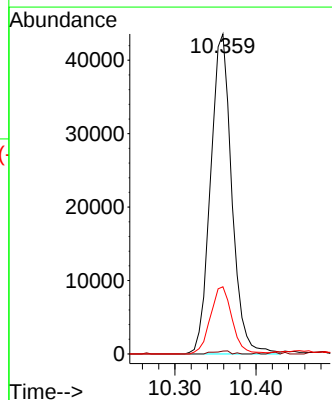
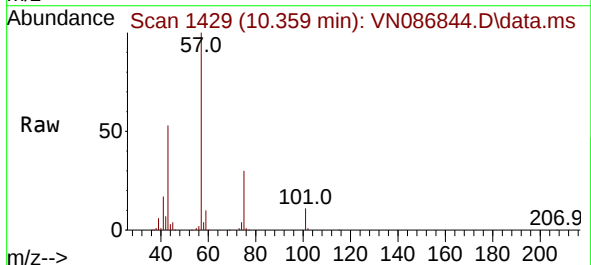
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#05

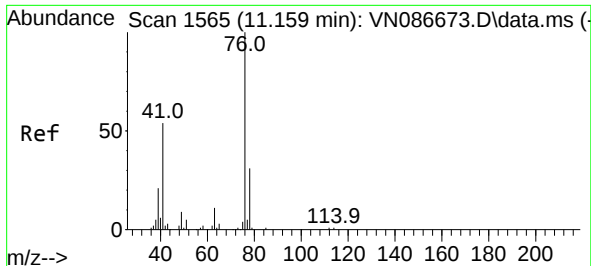
Tgt Ion: 43 Resp: 11971
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#



#54
cis-1,3-Dichloropropene
Concen: 15.540 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

Tgt Ion: 75 Resp: 79102
Ion Ratio Lower Upper
75 100
77 0.9 25.3 37.9#
39 21.0 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.992 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

Instrument :

MSVOA_N

ClientSampleId :

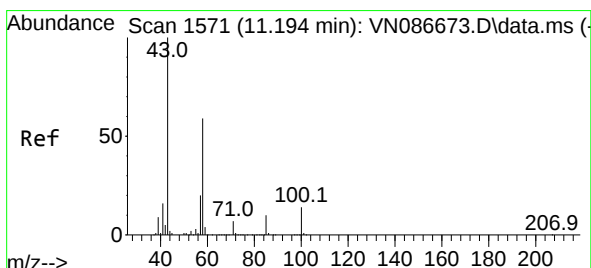
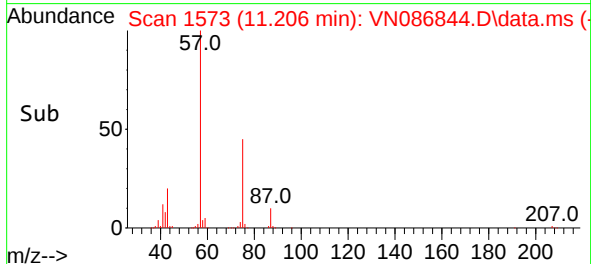
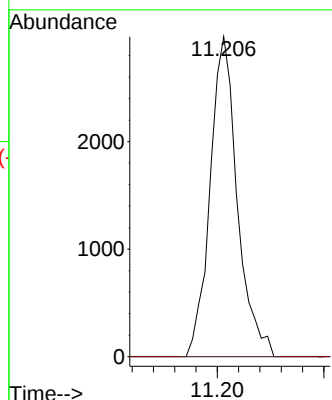
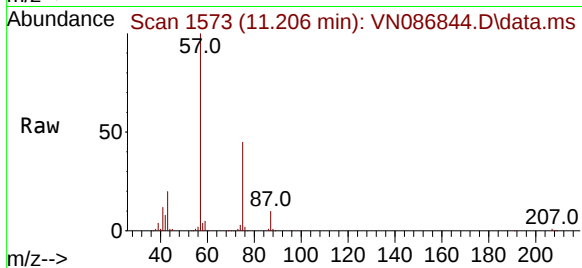
PB168225ZHE#05

Tgt Ion: 76 Resp: 5282

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 27.478 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN086844.D

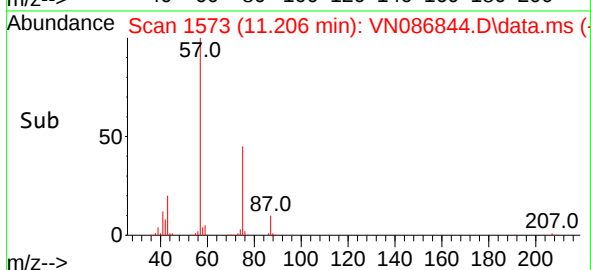
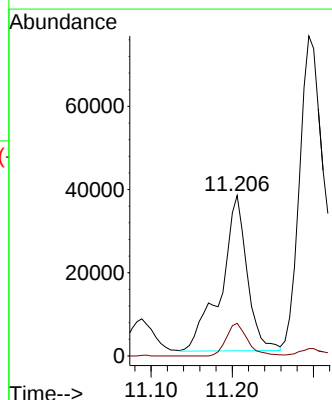
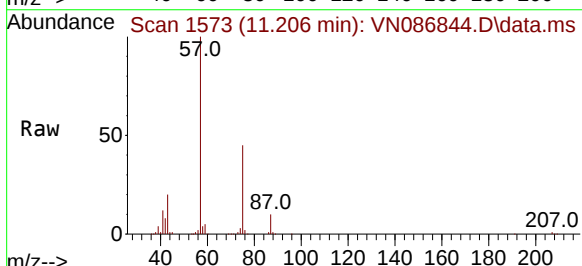
Acq: 03 Jun 2025 15:45

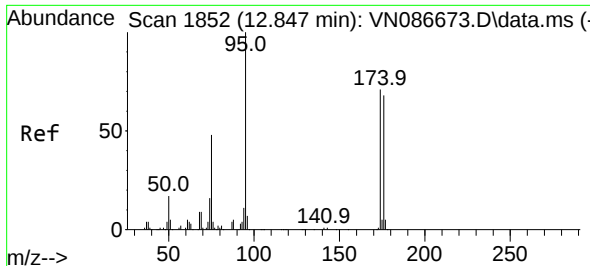
Tgt Ion: 43 Resp: 83763

Ion Ratio Lower Upper

43 100

58 17.3 29.8 89.5#

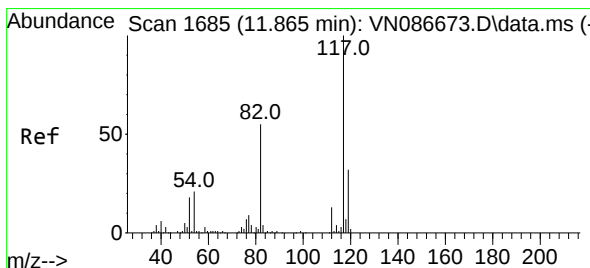
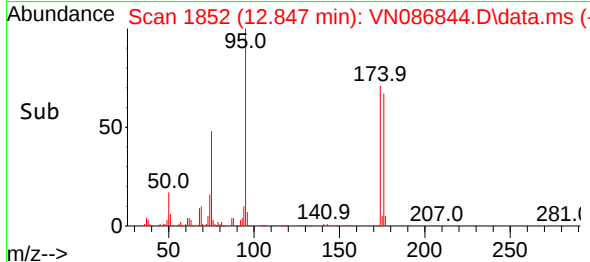
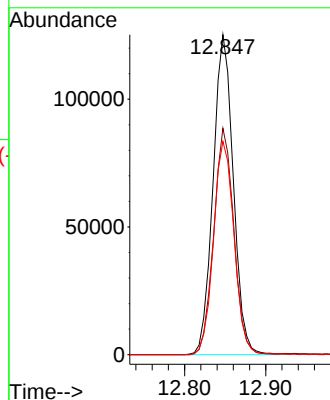
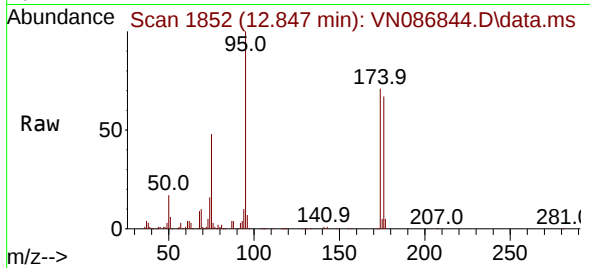




#62
4-Bromofluorobenzene
Concen: 53.478 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

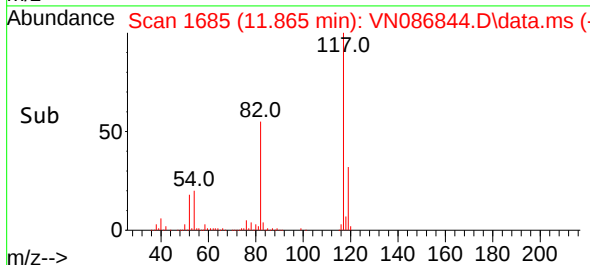
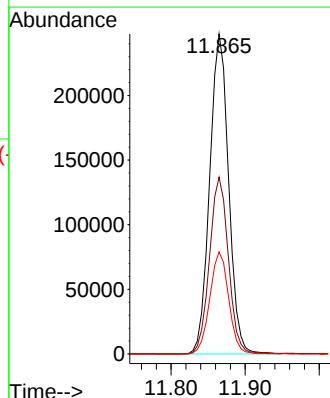
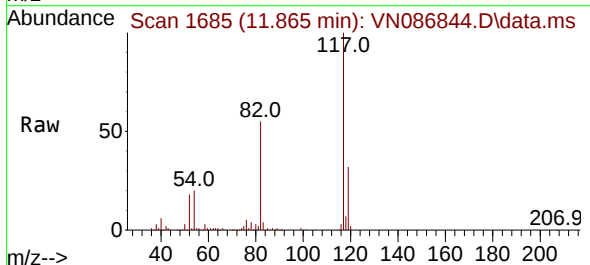
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#05

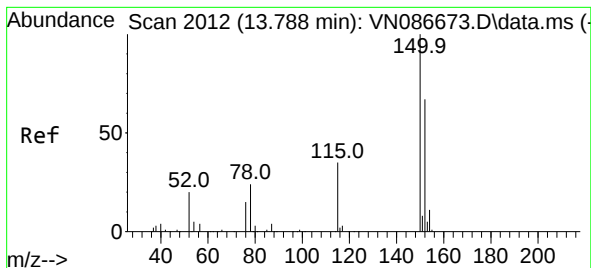
Tgt Ion: 95 Resp: 216850
Ion Ratio Lower Upper
95 100
174 70.4 0.0 145.4
176 67.7 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086844.D
Acq: 03 Jun 2025 15:45

Tgt Ion: 117 Resp: 438882
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.2
119 31.9 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN086844.D

Acq: 03 Jun 2025 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#05

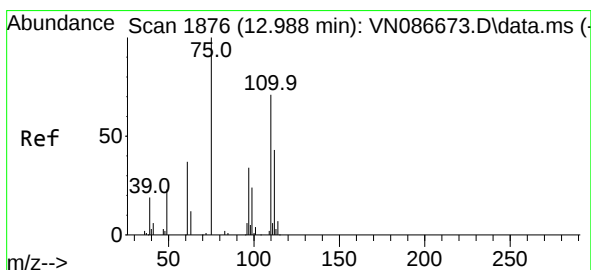
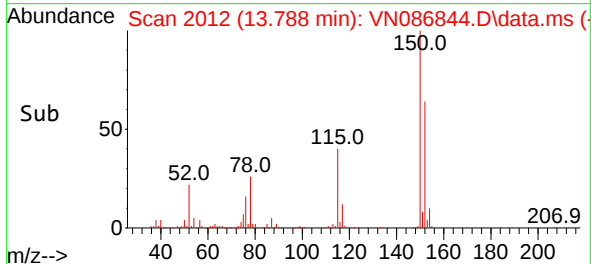
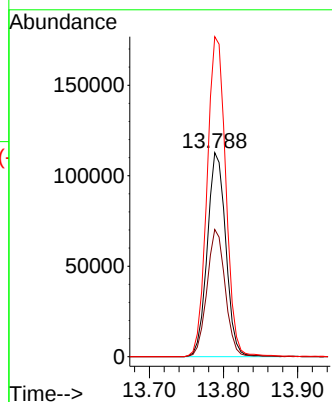
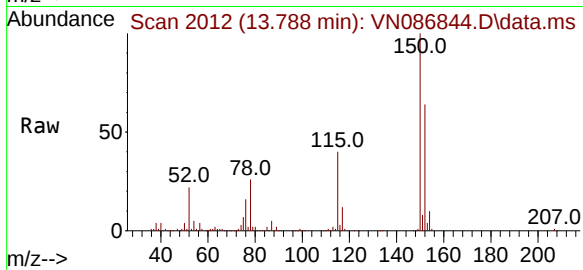
Tgt Ion:152 Resp: 195413

Ion Ratio Lower Upper

152 100

115 61.7 30.0 90.1

150 159.1 0.0 347.8



#76

1,2,3-Trichloropropane

Concen: 23.395 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086844.D

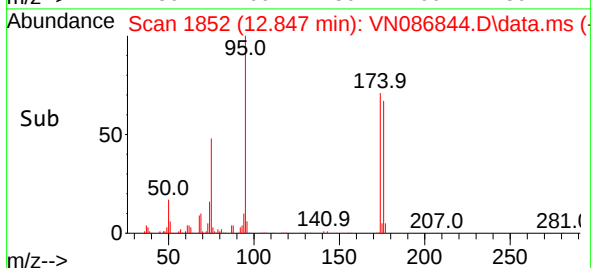
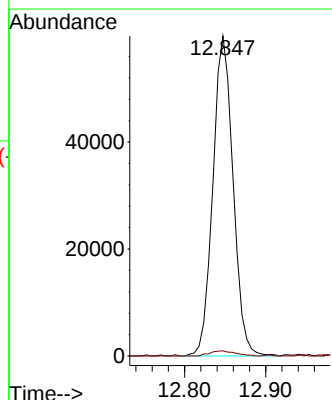
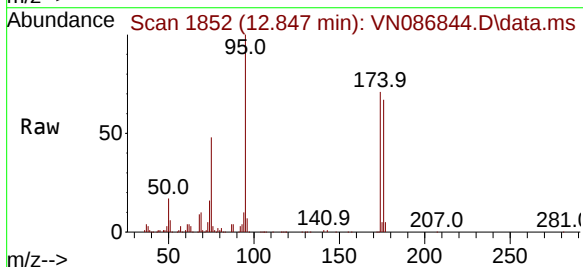
Acq: 03 Jun 2025 15:45

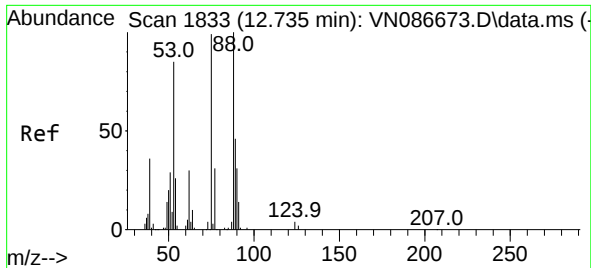
Tgt Ion: 75 Resp: 103394

Ion Ratio Lower Upper

75 100

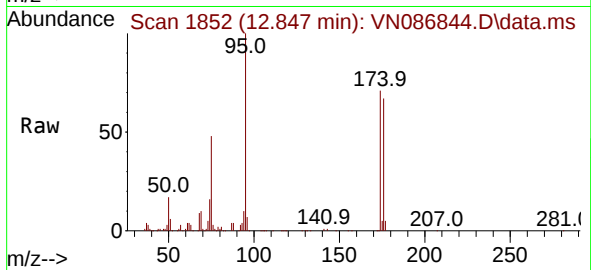
77 2.0 96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.042 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086844.D
 Acq: 03 Jun 2025 15:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#05



Tgt Ion: 75 Resp: 103394
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.1 32.4 48.6#

