

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086261.D
 Acq On : 14 Apr 2025 12:02
 Operator : JC\MD
 Sample : PB167573ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#01

Quant Time: Apr 15 03:07:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

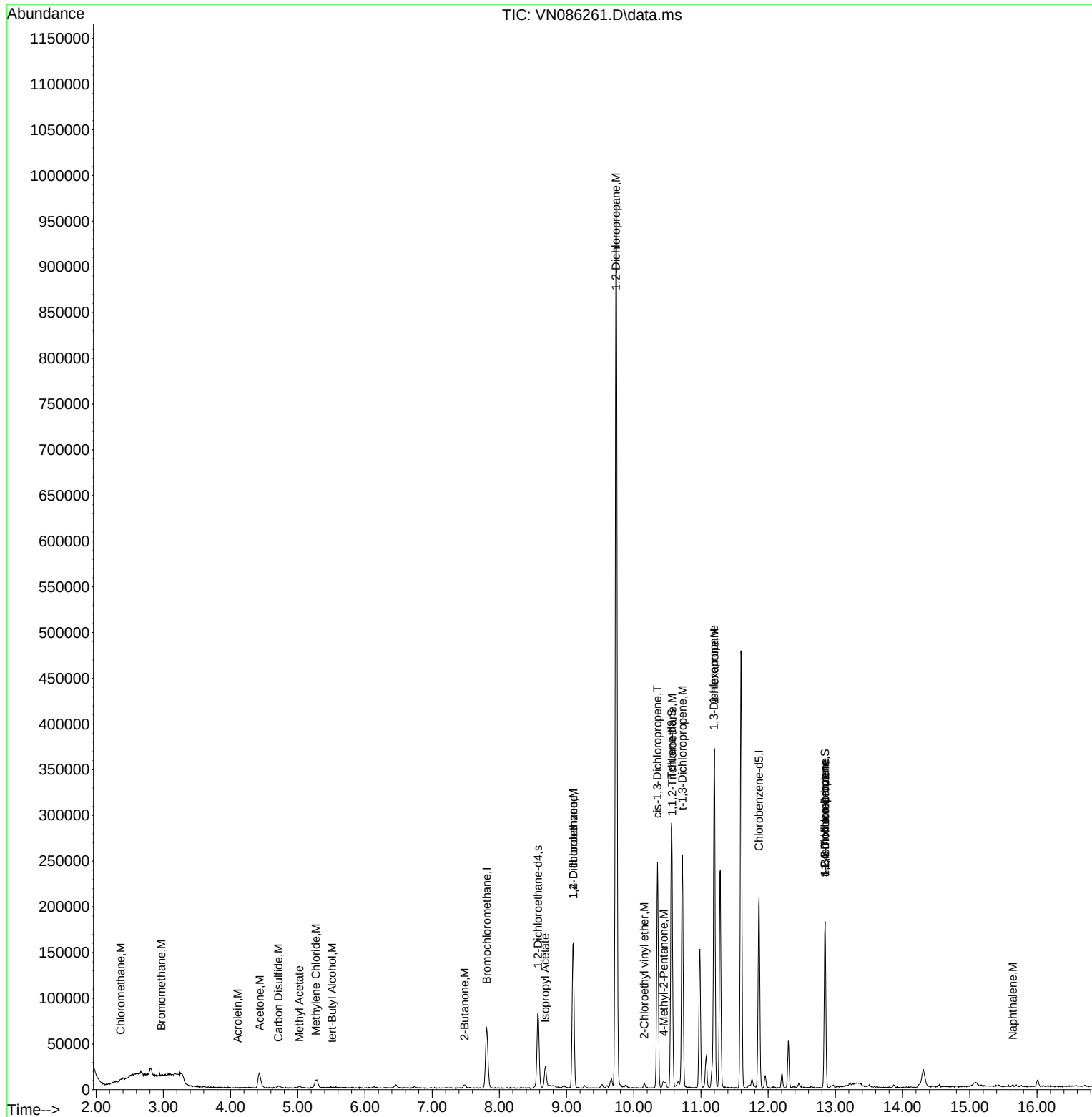
Internal Standards						
1) Bromochloromethane	7.812	128	23128	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	140998	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	122339	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	68569	30.396	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.333%
60) 4-Bromofluorobenzene	12.847	95	69376	28.483	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.933%
63) Toluene-d8	10.565	98	208690	30.215	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.733%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1073	0.419	ug/l	99
5) Bromomethane	2.971	94	463	0.380	ug/l	84
12) Methyl Acetate	5.024	43	1846	0.742	ug/l	91
13) Acrolein	4.106	56	151	0.534	ug/l	94
15) Acetone	4.436	58	10047	37.742	ug/l	90
16) Carbon Disulfide	4.712	76	1118	0.221	ug/l #	74
18) Methylene Chloride	5.271	84	8124	4.046	ug/l	90
23) tert-Butyl Alcohol	5.512	59	183	0.421	ug/l #	100
30) 2-Butanone	7.483	43	6410	4.580	ug/l #	93
36) 1,2-Dichloroethane	9.100	62	4646	1.848	ug/l #	72
39) 1,2-Dichloropropane	9.735	63	1349	0.675	ug/l #	42
44) Isopropyl Acetate	8.682	43	28142	5.374	ug/l #	74
48) t-1,3-Dichloropropene	10.724	75	747	0.238	ug/l #	50
49) cis-1,3-Dichloropropene	10.353	75	46590	14.035	ug/l #	55
50) 1,1,2-Trichloroethane	10.571	97	6420	3.544	ug/l #	1
52) 1,3-Dichloropropane	11.194	76	3952	1.224	ug/l #	42
55) 2-Chloroethyl vinyl ether	10.159	63	2185	1.718	ug/l #	77
58) 4-Methyl-2-Pentanone	10.447	43	5079	1.829	ug/l	96
59) 2-Hexanone	11.200	43	57046	27.595	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	34849	14.333	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	34849	31.084	ug/l #	12
91) Naphthalene	15.641	128	1852	0.289	ug/l #	79

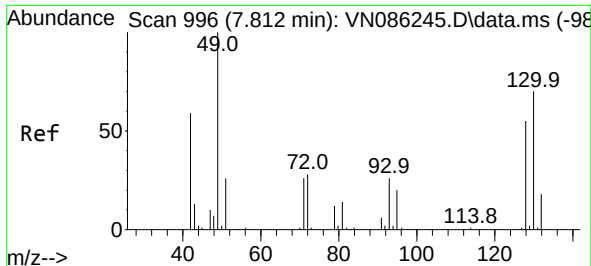
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 03:07:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

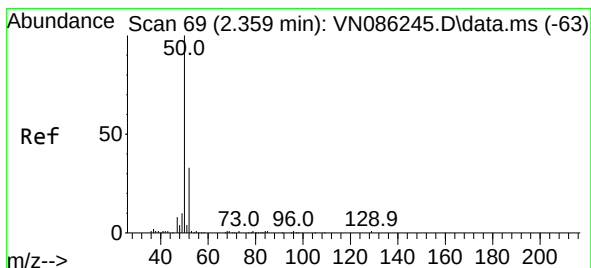
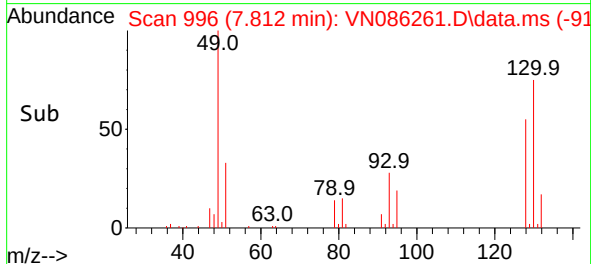
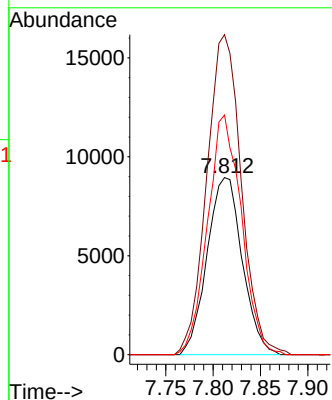
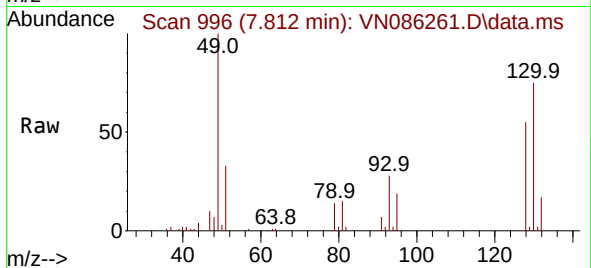




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

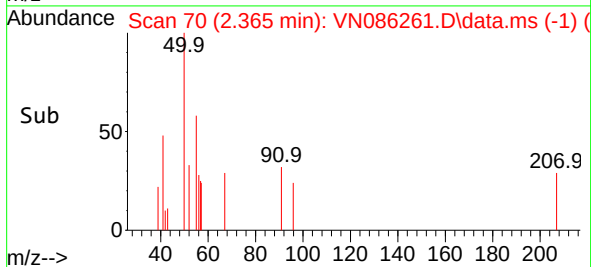
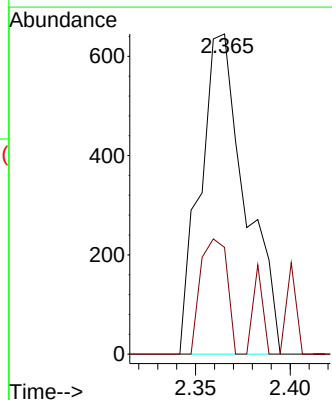
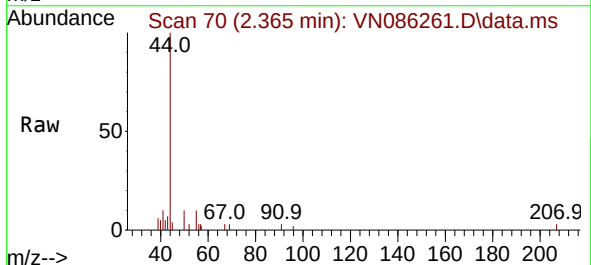
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

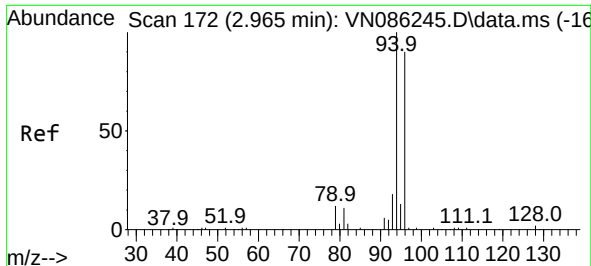
Tgt Ion:128 Resp: 23128
Ion Ratio Lower Upper
128 100
49 177.4 0.0 452.5
130 130.2 0.0 315.0



#3
Chloromethane
Concen: 0.419 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 50 Resp: 1073
Ion Ratio Lower Upper
50 100
52 33.3 26.4 39.6

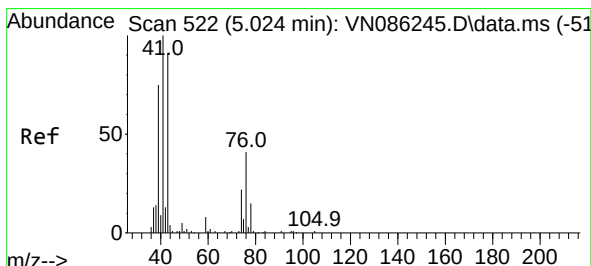
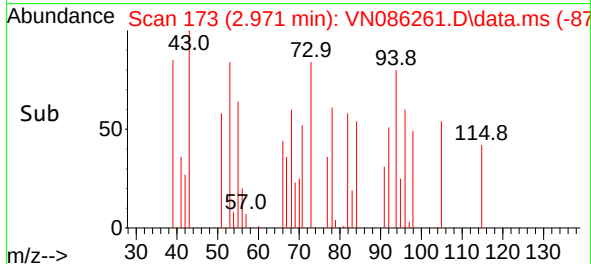
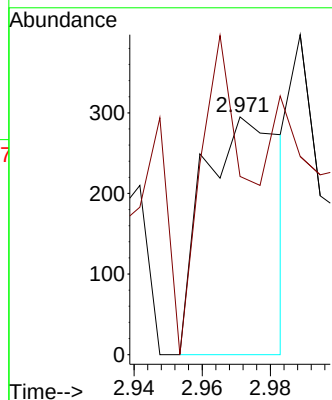
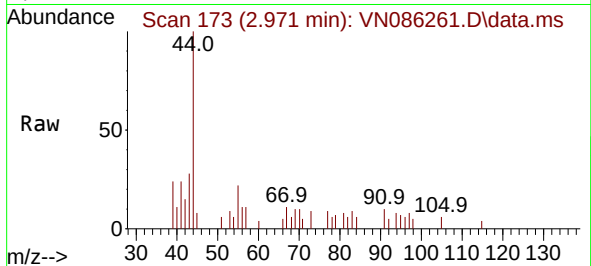




#5
Bromomethane
Concen: 0.380 ug/l
RT: 2.971 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

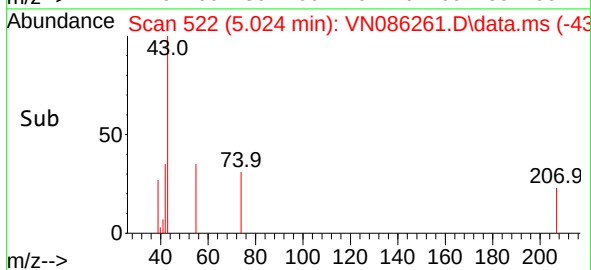
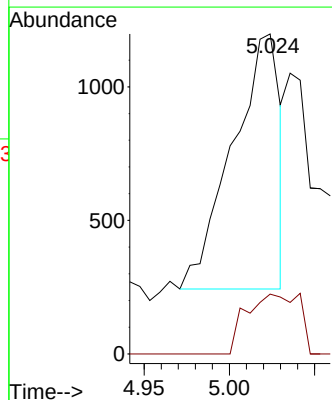
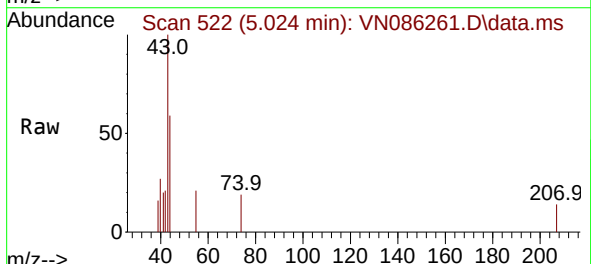
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

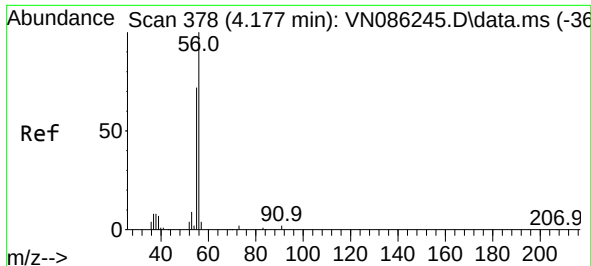
Tgt Ion: 94 Resp: 463
Ion Ratio Lower Upper
94 100
96 74.9 72.2 108.2



#12
Methyl Acetate
Concen: 0.742 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 43 Resp: 1846
Ion Ratio Lower Upper
43 100
74 19.2 19.1 28.7

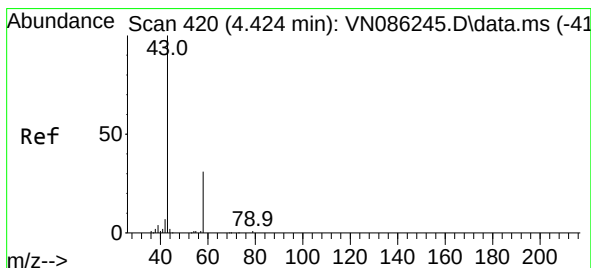
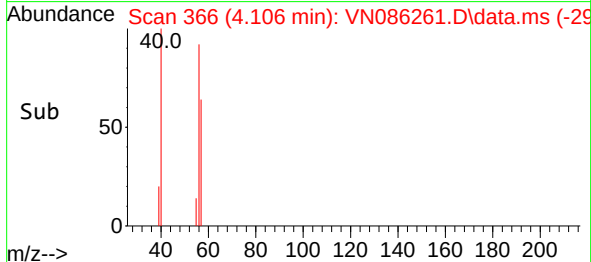
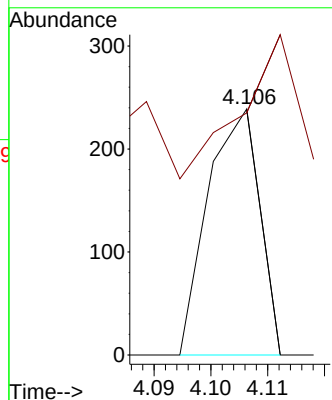
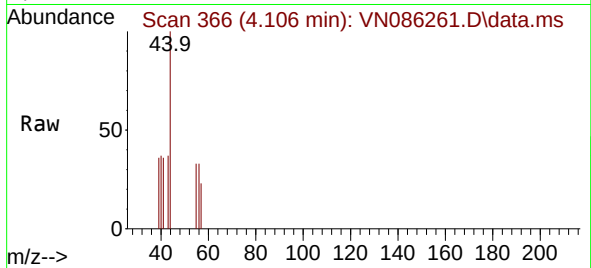




#13
Acrolein
Concen: 0.534 ug/l
RT: 4.106 min Scan# 306
Delta R.T. -0.071 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

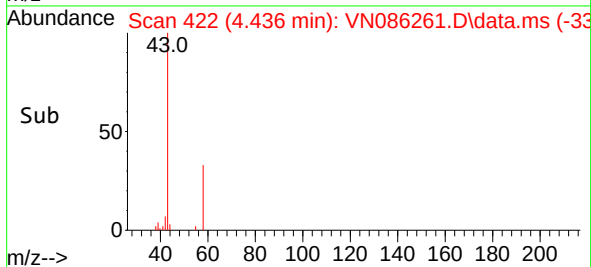
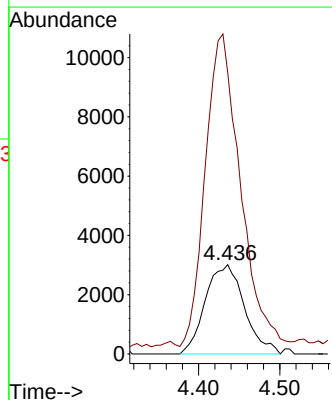
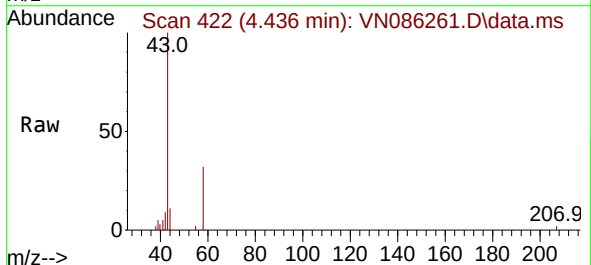
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

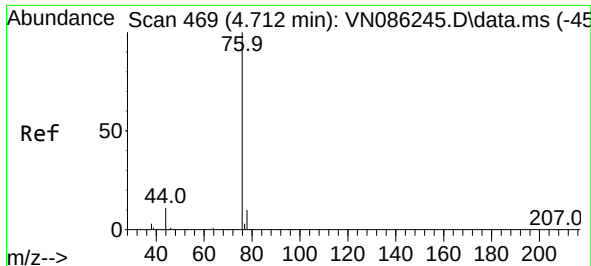
Tgt Ion: 56 Resp: 151
Ion Ratio Lower Upper
56 100
55 75.5 56.5 84.7



#15
Acetone
Concen: 37.742 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 58 Resp: 10047
Ion Ratio Lower Upper
58 100
43 307.0 261.8 392.8

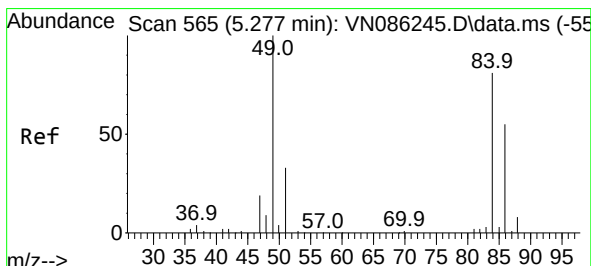
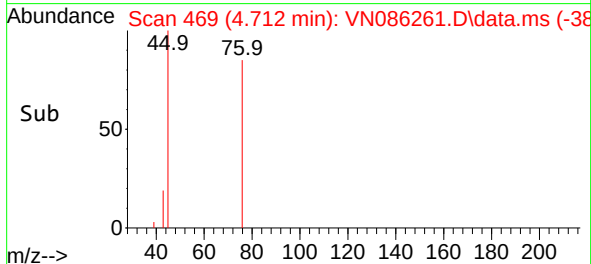
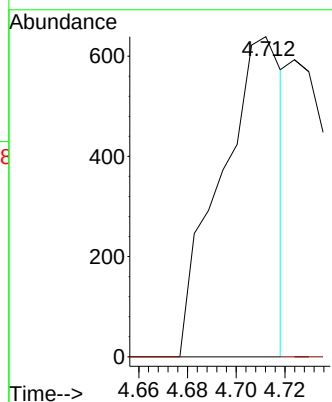
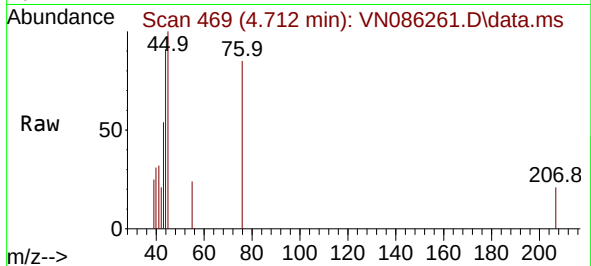




#16
Carbon Disulfide
Concen: 0.221 ug/l
RT: 4.712 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

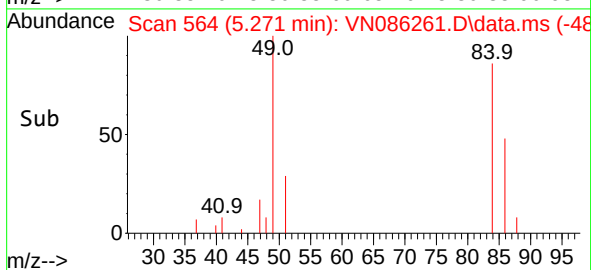
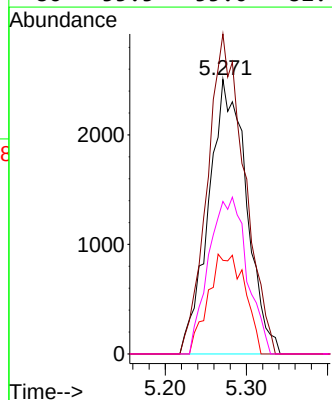
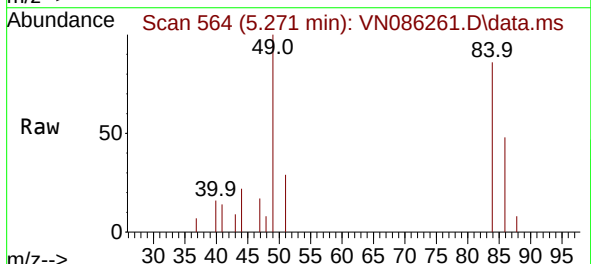
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

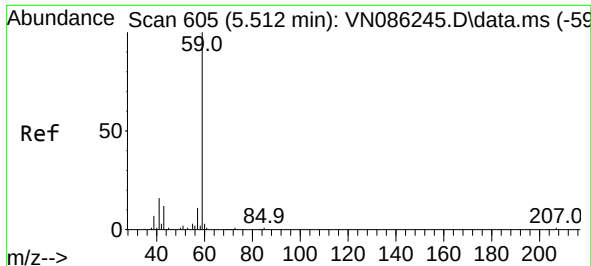
Tgt Ion: 76 Resp: 1118
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methylene Chloride
Concen: 4.046 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 84 Resp: 8124
Ion Ratio Lower Upper
84 100
49 116.6 99.1 148.7
51 34.1 32.3 48.5
86 55.5 55.0 82.4

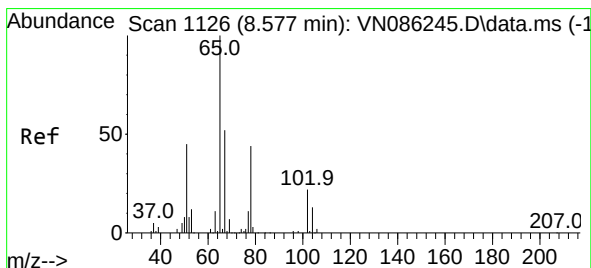
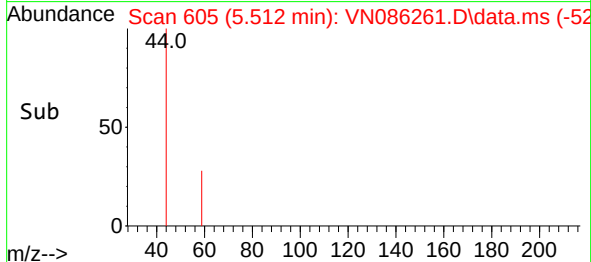
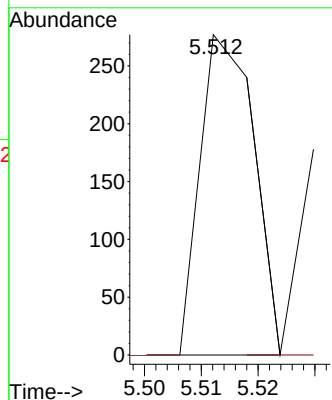
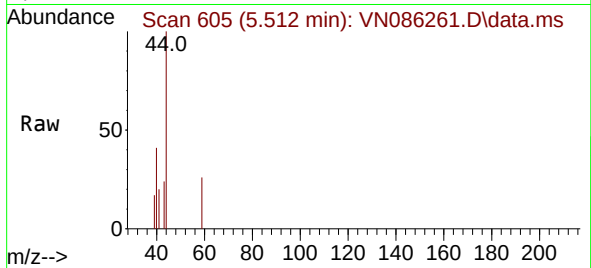




#23
 tert-Butyl Alcohol
 Concen: 0.421 ug/l
 RT: 5.512 min Scan# 605
 Delta R.T. -0.000 min
 Lab File: VN086261.D
 Acq: 14 Apr 2025 12:02

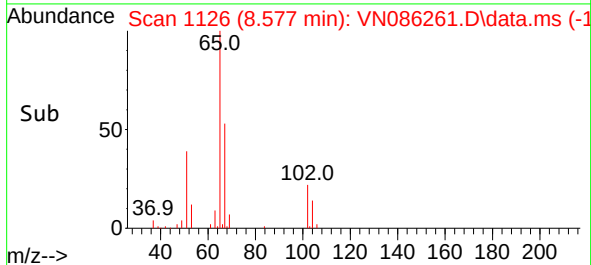
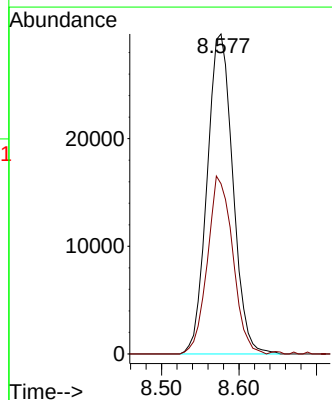
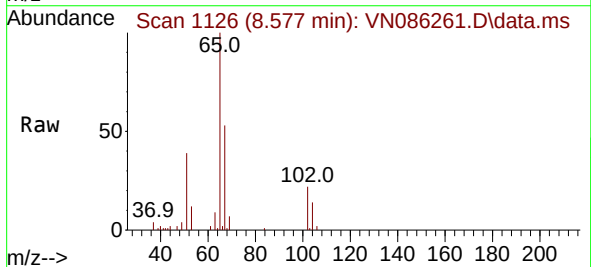
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#01

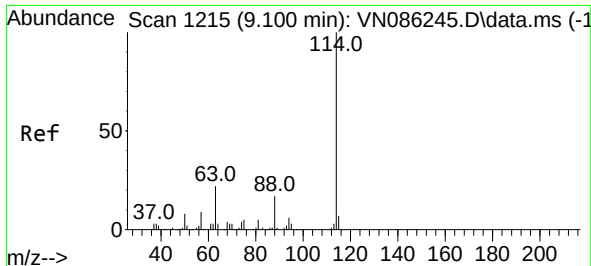
Tgt Ion: 59 Resp: 183
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#27
 1,2-Dichloroethane-d4
 Concen: 30.396 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086261.D
 Acq: 14 Apr 2025 12:02

Tgt Ion: 65 Resp: 68569
 Ion Ratio Lower Upper
 65 100
 67 54.8 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086261.D

Acq: 14 Apr 2025 12:02

Instrument :

MSVOA_N

ClientSampleId :

PB167573ZHE#01

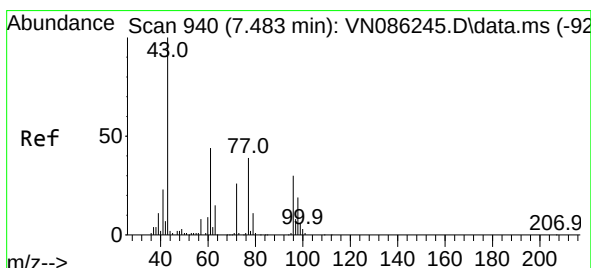
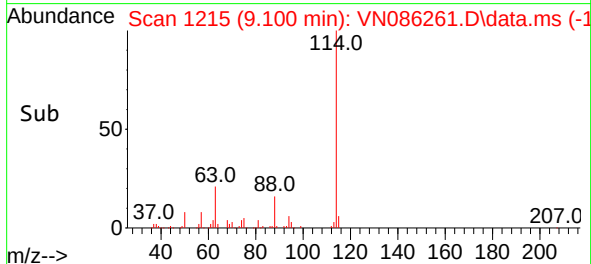
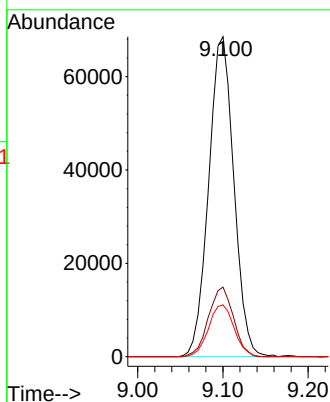
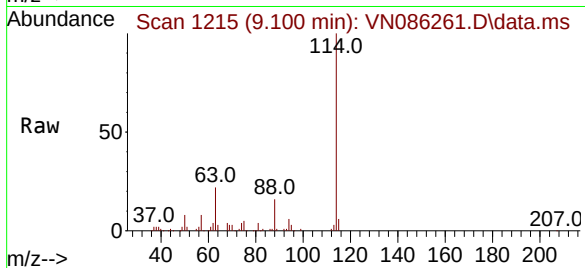
Tgt Ion:114 Resp: 140998

Ion Ratio Lower Upper

114 100

63 21.5 17.8 26.6

88 16.5 13.4 20.2



#30

2-Butanone

Concen: 4.580 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN086261.D

Acq: 14 Apr 2025 12:02

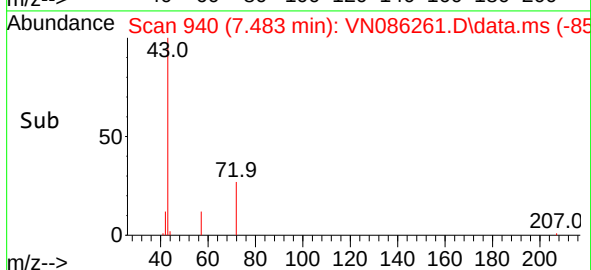
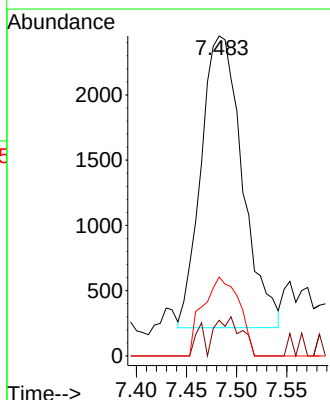
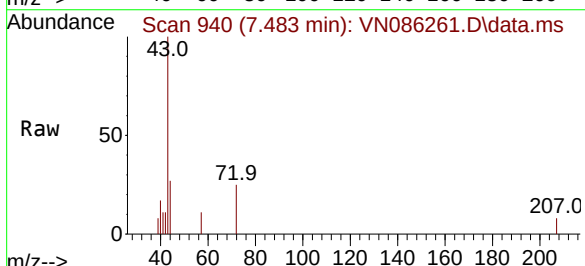
Tgt Ion: 43 Resp: 6410

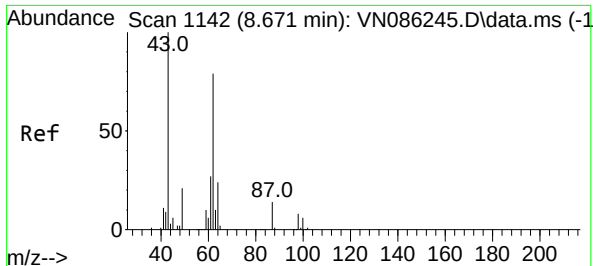
Ion Ratio Lower Upper

43 100

57 3.9 6.4 9.6#

72 23.7 21.5 32.3





#36

1,2-Dichloroethane

Concen: 1.848 ug/l

RT: 9.100 min Scan# 1142

Delta R.T. 0.429 min

Lab File: VN086261.D

Acq: 14 Apr 2025 12:02

Instrument :

MSVOA_N

ClientSampleId :

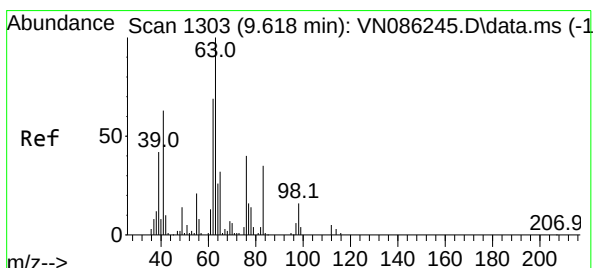
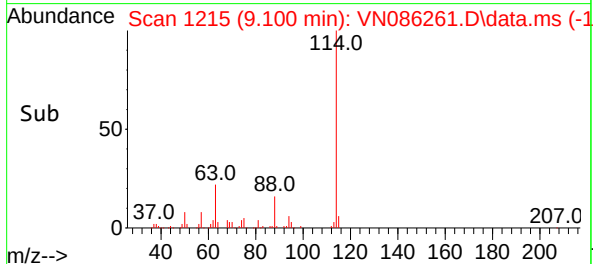
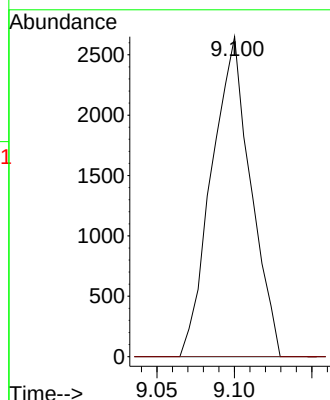
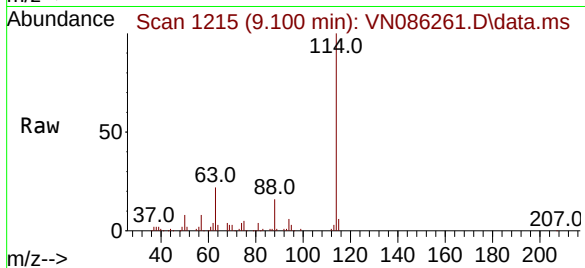
PB167573ZHE#01

Tgt Ion: 62 Resp: 4646

Ion Ratio Lower Upper

62 100

98 0.0 8.6 12.8#



#39

1,2-Dichloropropane

Concen: 0.675 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086261.D

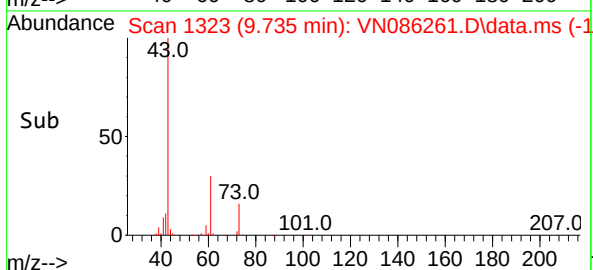
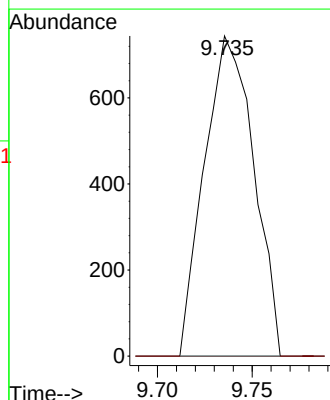
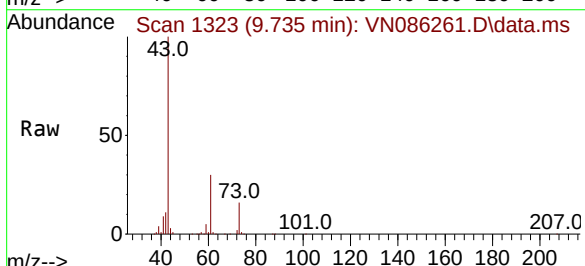
Acq: 14 Apr 2025 12:02

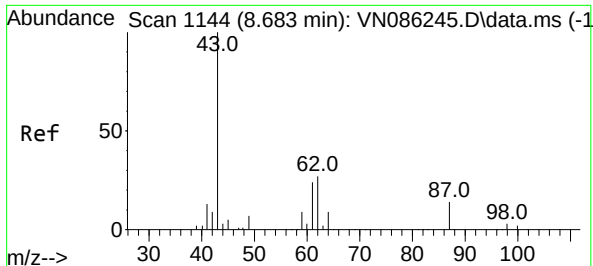
Tgt Ion: 63 Resp: 1349

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#

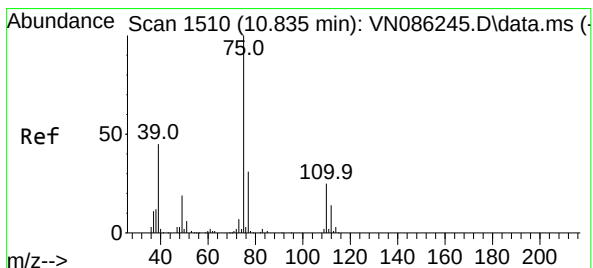
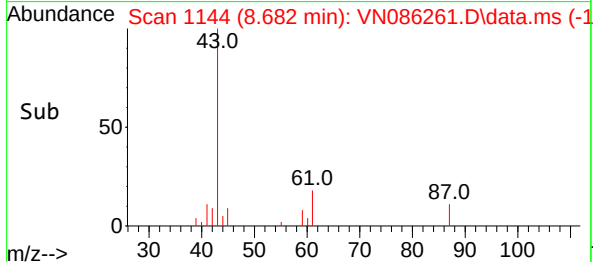
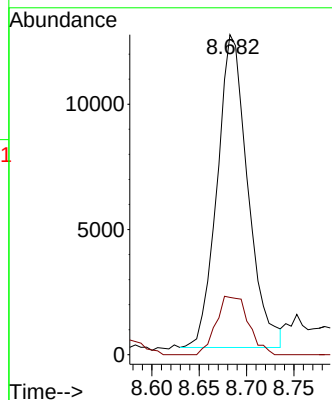
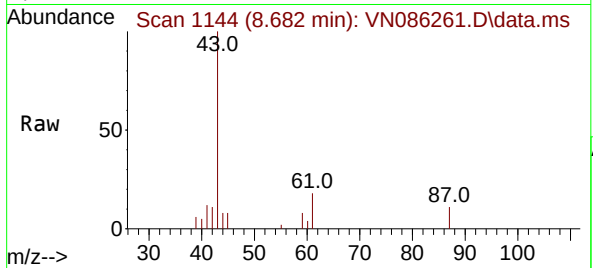




#44
Isopropyl Acetate
Concen: 5.374 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

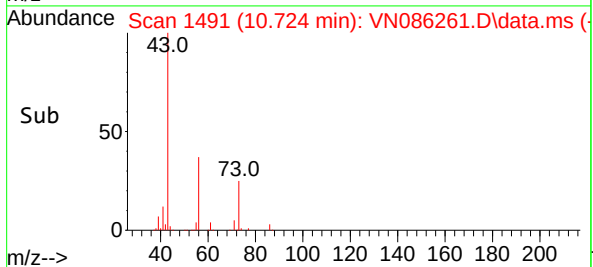
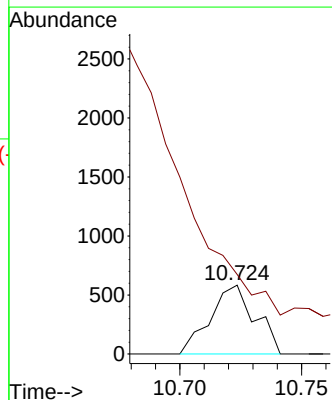
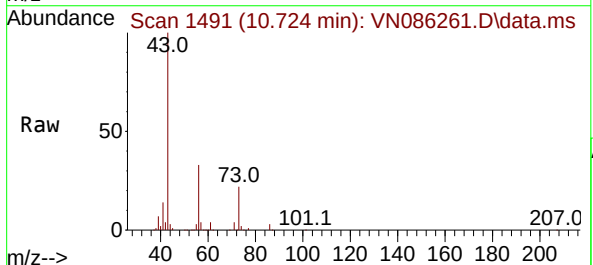
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

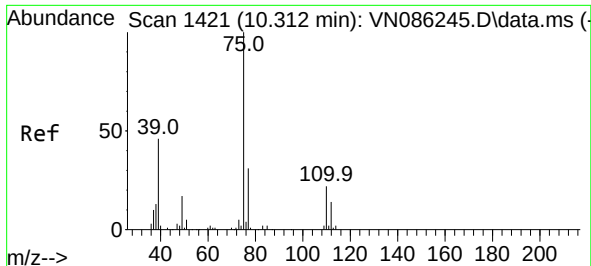
Tgt Ion: 43 Resp: 28142
Ion Ratio Lower Upper
43 100
61 12.6 20.5 30.7#



#48
t-1,3-Dichloropropene
Concen: 0.238 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 75 Resp: 747
Ion Ratio Lower Upper
75 100
77 58.9 25.1 37.7#

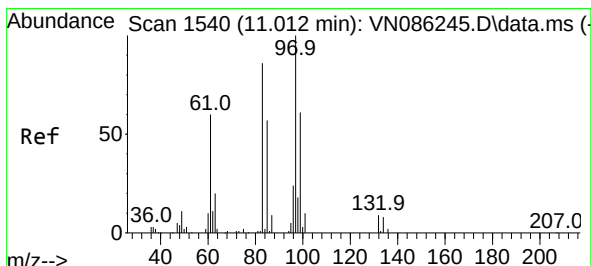
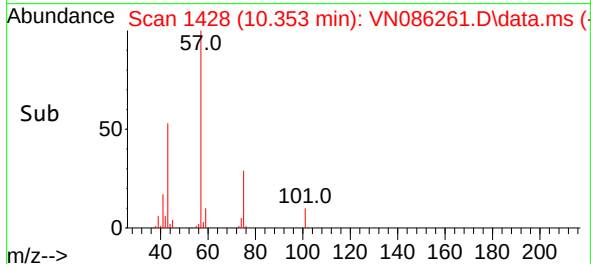
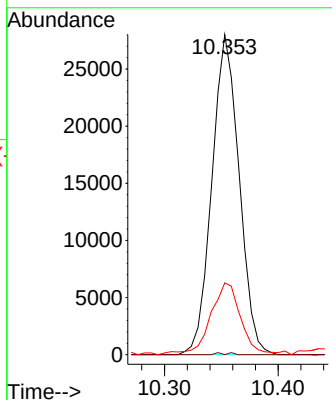
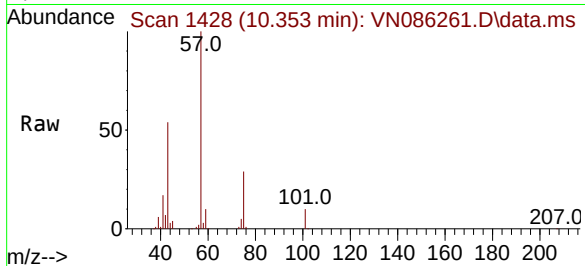




#49
 cis-1,3-Dichloropropene
 Concen: 14.035 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086261.D
 Acq: 14 Apr 2025 12:02

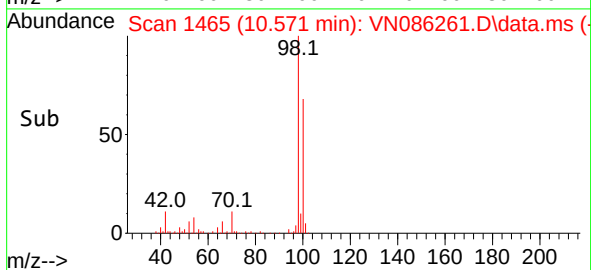
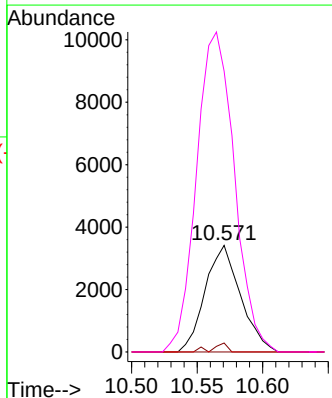
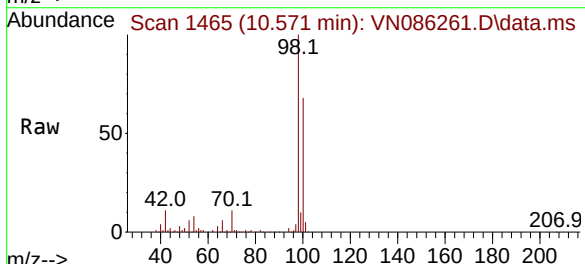
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#01

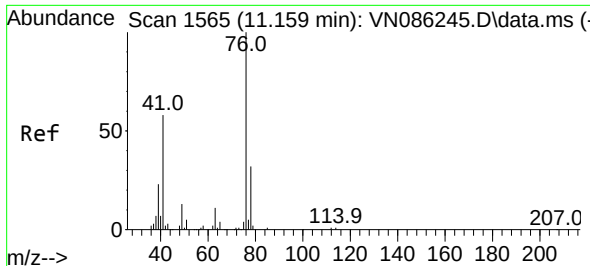
Tgt Ion: 75 Resp: 46590
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 21.8 36.7 55.1#



#50
 1,1,2-Trichloroethane
 Concen: 3.544 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.441 min
 Lab File: VN086261.D
 Acq: 14 Apr 2025 12:02

Tgt Ion: 97 Resp: 6420
 Ion Ratio Lower Upper
 97 100
 83 8.4 68.6 103.0#
 85 0.0 45.9 68.9#
 99 263.4 48.6 73.0#

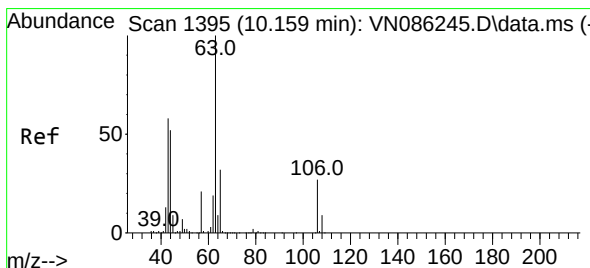
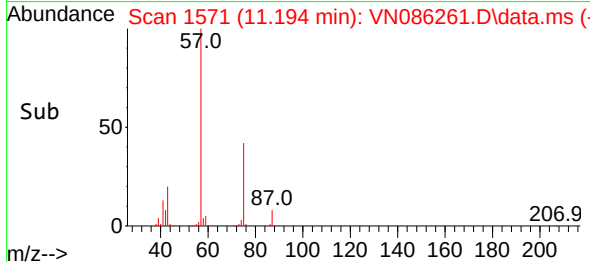
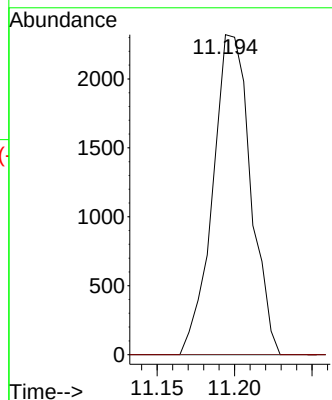
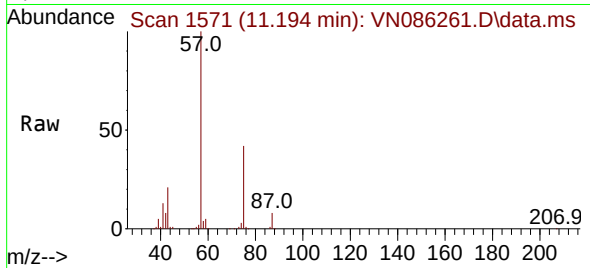




#52
1,3-Dichloropropane
Concen: 1.224 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

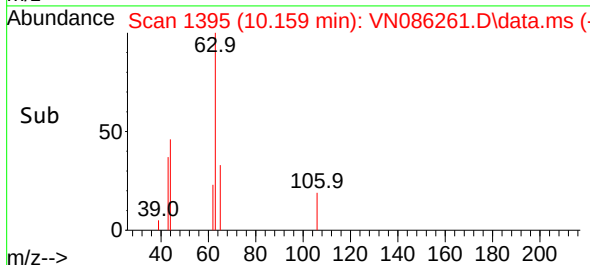
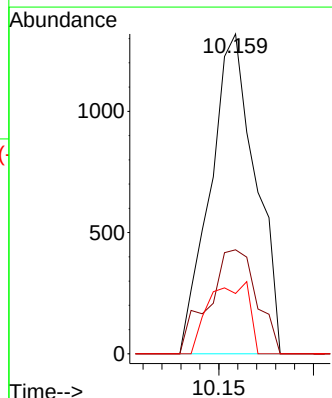
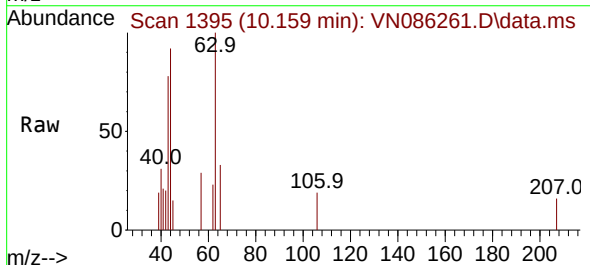
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

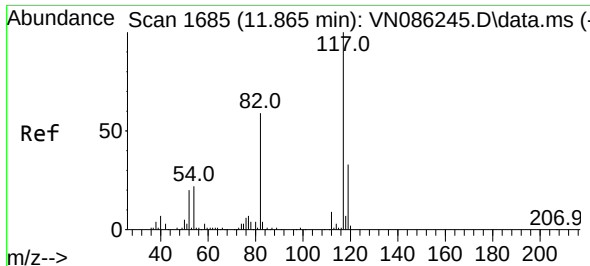
Tgt Ion: 76 Resp: 3952
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6



#55
2-Chloroethyl vinyl ether
Concen: 1.718 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 63 Resp: 2185
Ion Ratio Lower Upper
63 100
65 29.1 25.8 38.8
106 4.8 21.8 32.8#

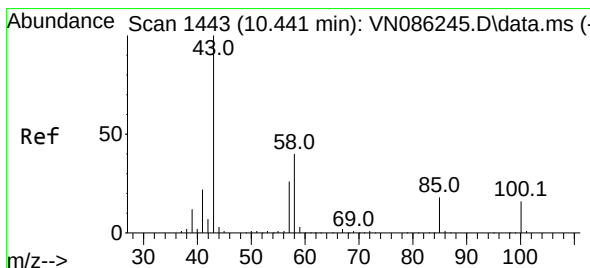
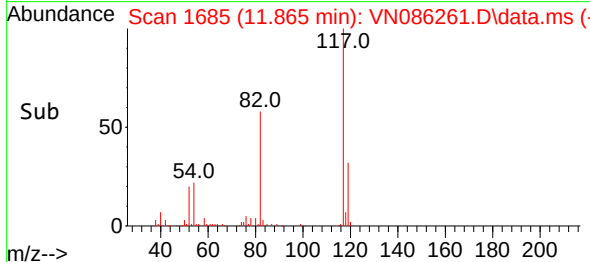
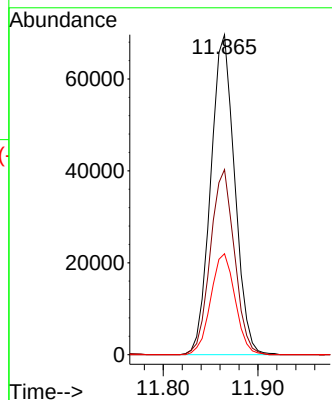
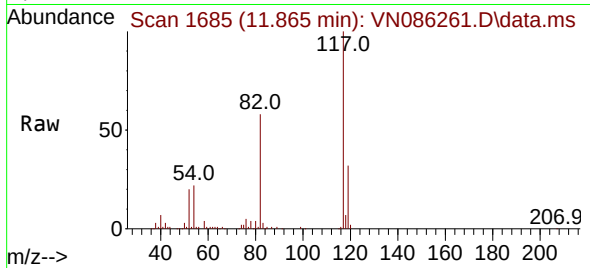




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1185
Delta R.T. -0.000 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

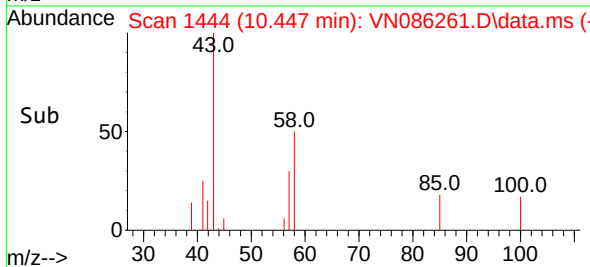
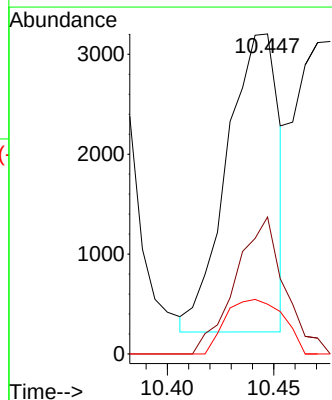
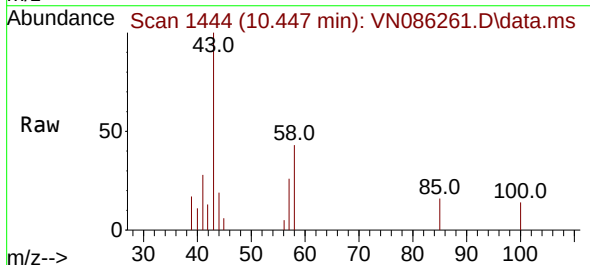
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

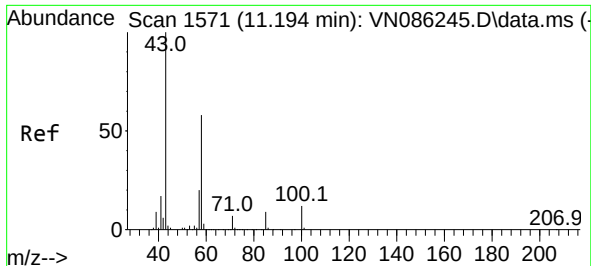
Tgt Ion:117 Resp: 122339
Ion Ratio Lower Upper
117 100
82 58.2 47.3 70.9
119 32.1 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 1.829 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 43 Resp: 5079
Ion Ratio Lower Upper
43 100
58 43.1 32.5 48.7
85 20.2 14.4 21.6

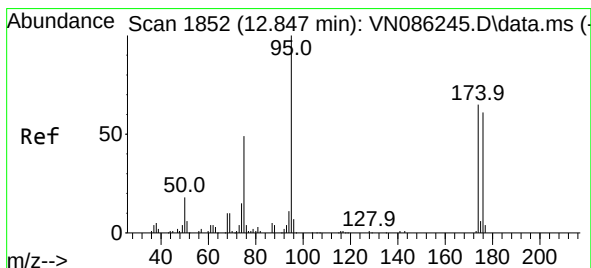
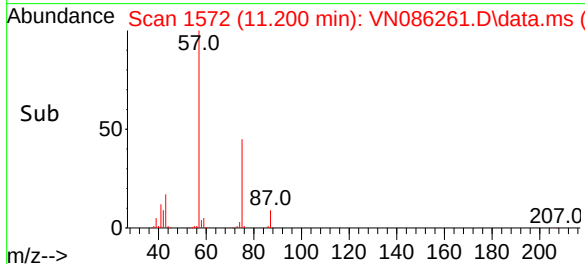
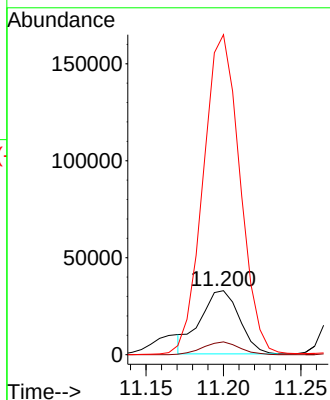
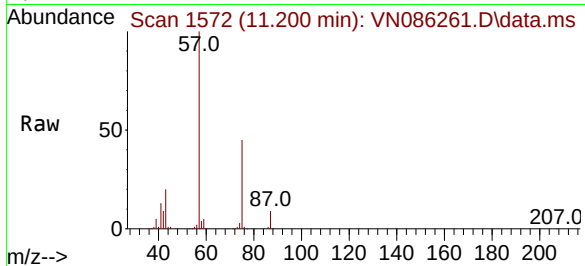




#59
2-Hexanone
Concen: 27.595 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

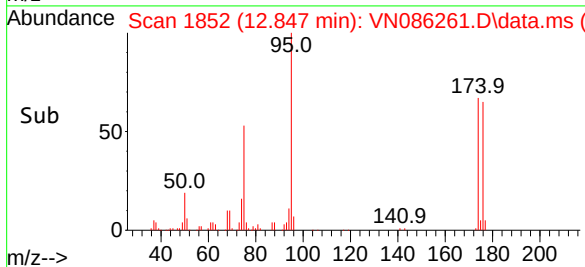
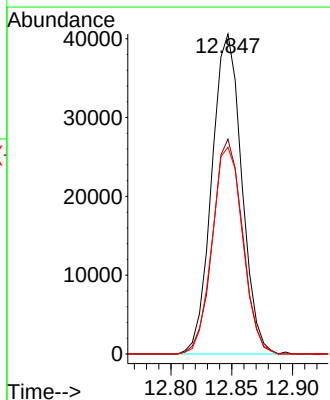
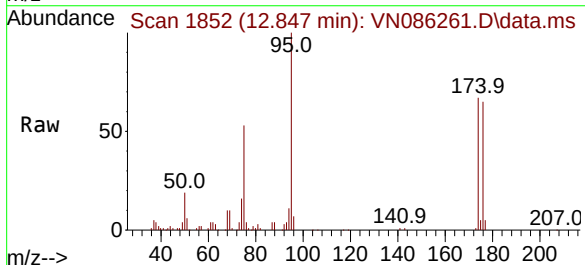
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

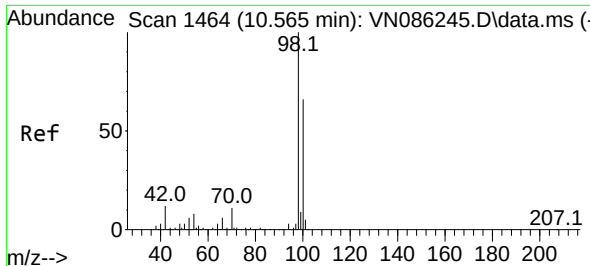
Tgt Ion: 43 Resp: 57046
Ion Ratio Lower Upper
43 100
58 18.9 45.3 67.9#
57 478.9 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 28.483 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 95 Resp: 69376
Ion Ratio Lower Upper
95 100
174 67.1 52.7 79.1
176 66.1 49.8 74.8

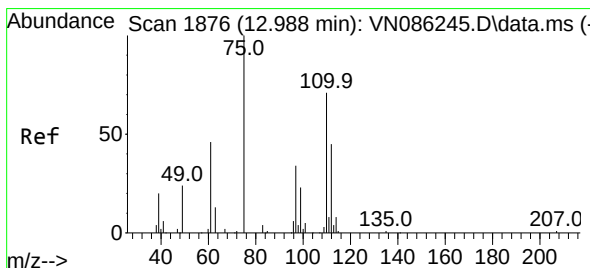
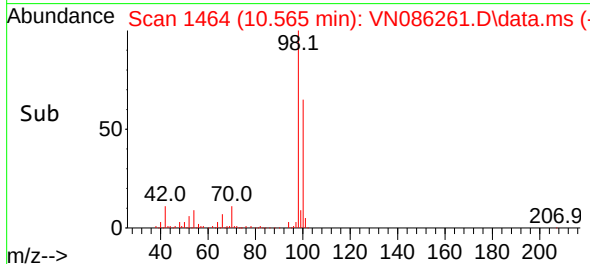
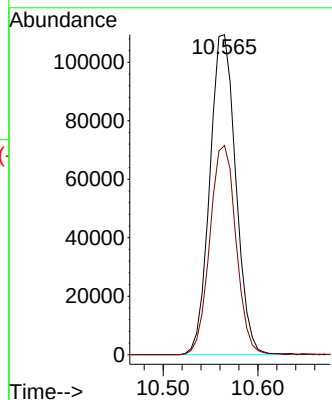
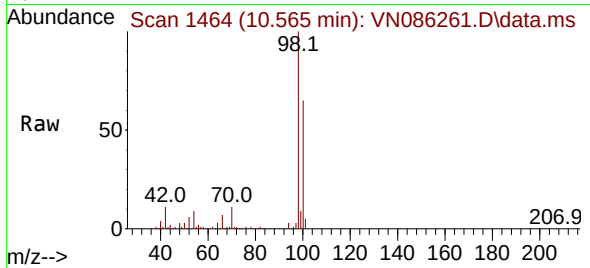




#63
Toluene-d8
Concen: 30.215 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

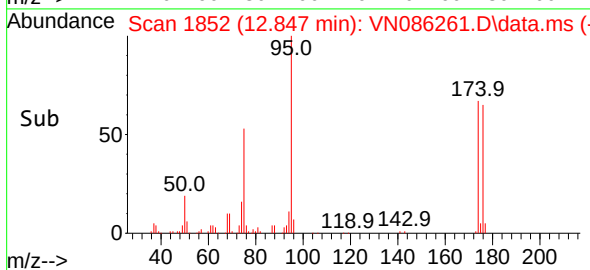
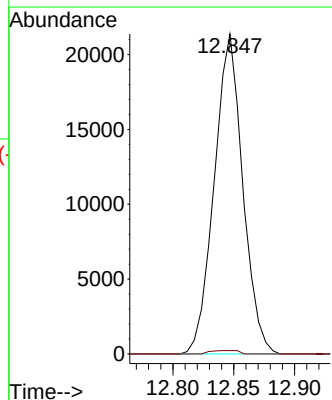
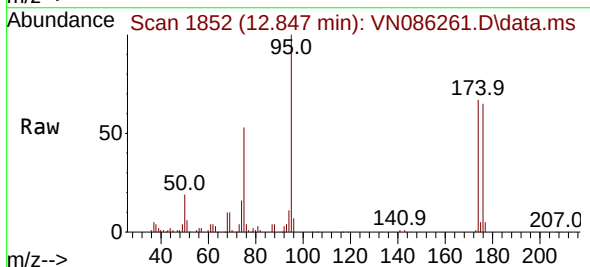
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

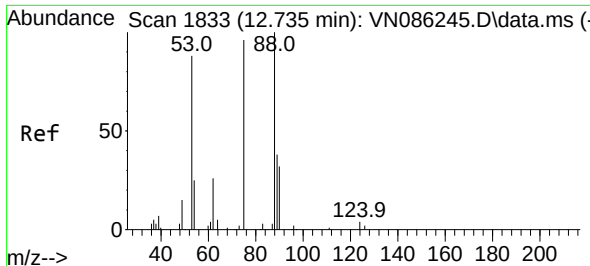
Tgt Ion: 98 Resp: 208690
Ion Ratio Lower Upper
98 100
100 65.7 52.3 78.5



#72
1,2,3-Trichloropropane
Concen: 14.333 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion: 75 Resp: 34849
Ion Ratio Lower Upper
75 100
77 1.1 0.0 380.0

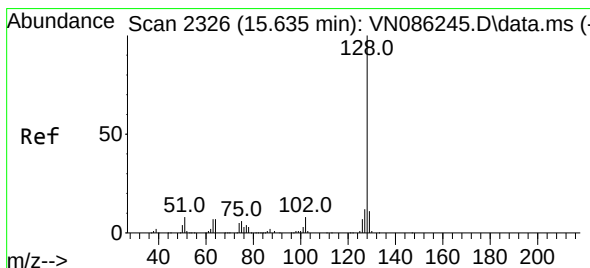
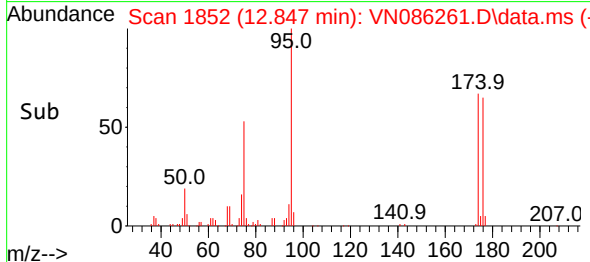
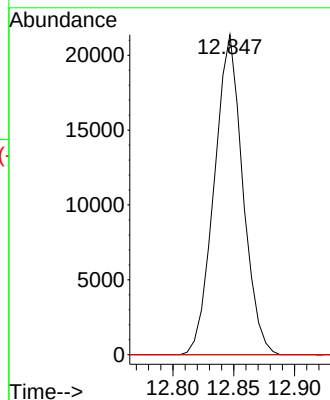
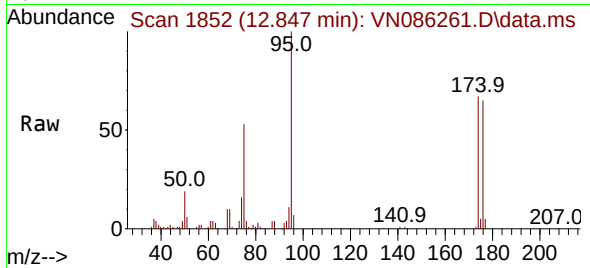




#77
t-1,4-Dichloro-2-butene
Concen: 31.084 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#01

Tgt Ion: 75 Resp: 34849
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#



#91
Naphthalene
Concen: 0.289 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086261.D
Acq: 14 Apr 2025 12:02

Tgt Ion:128 Resp: 1852
Ion Ratio Lower Upper
128 100
127 6.9 10.2 15.2#
129 0.0 8.8 13.2#

