

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086247.D
 Acq On : 11 Apr 2025 13:04
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Apr 12 01:23:50 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)

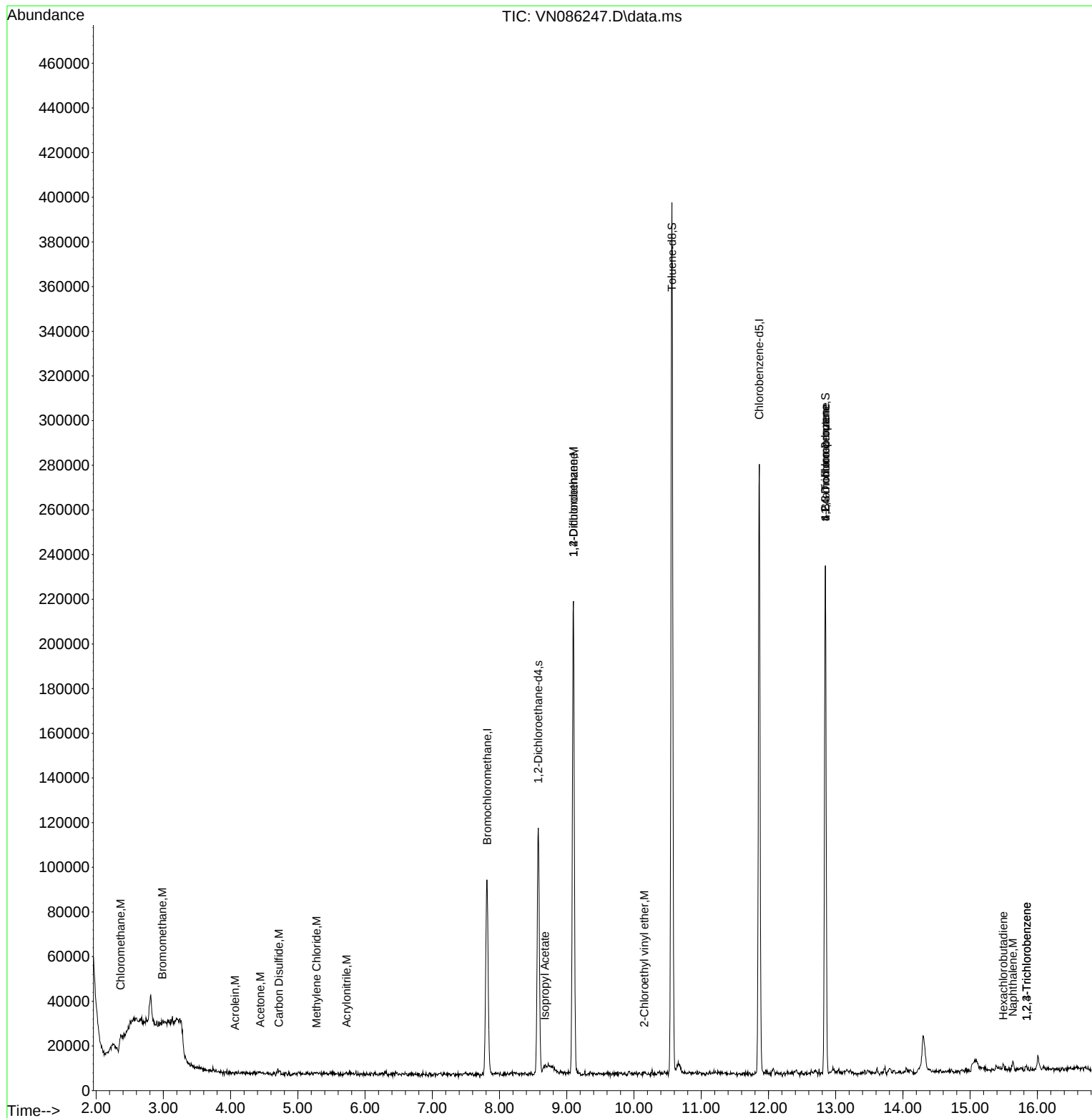
Internal Standards						
1) Bromochloromethane	7.818	128	30238	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185959	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	159388	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	90581	30.712	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.367%
60) 4-Bromofluorobenzene	12.847	95	89905	28.331	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.433%
63) Toluene-d8	10.565	98	276374	30.714	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.367%
Target Compounds						
						Qvalue
3) Chloromethane	2.365	50	1161	0.347	ug/l #	84
5) Bromomethane	2.983	94	814	0.512	ug/l	92
13) Acrolein	4.065	56	86	0.233	ug/l	99
14) Acrylonitrile	5.724	53	578	0.421	ug/l #	27
15) Acetone	4.442	58	72	0.207	ug/l #	1
16) Carbon Disulfide	4.718	76	3089	0.468	ug/l #	86
18) Methylene Chloride	5.277	84	805	0.307	ug/l #	6
36) 1,2-Dichloroethane	9.100	62	6571	1.981	ug/l #	77
44) Isopropyl Acetate	8.677	43	2586	0.374	ug/l #	49
55) 2-Chloroethyl vinyl ether	10.153	63	661	0.394	ug/l #	61
72) 1,2,3-Trichloropropane	12.847	75	44150	13.937	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	44150	30.227	ug/l #	12
89) 1,2,4-Trichlorobenzene	15.841	180	578	0.273	ug/l #	89
90) Hexachlorobutadiene	15.494	225	505	0.553	ug/l	71
91) Naphthalene	15.635	128	3674	0.441	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.841	180	578	0.273	ug/l	89

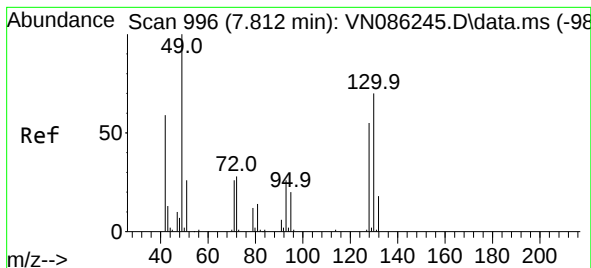
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.818 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN086247.D

Acq: 11 Apr 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

IBLK

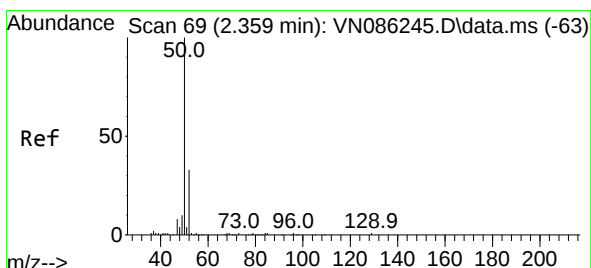
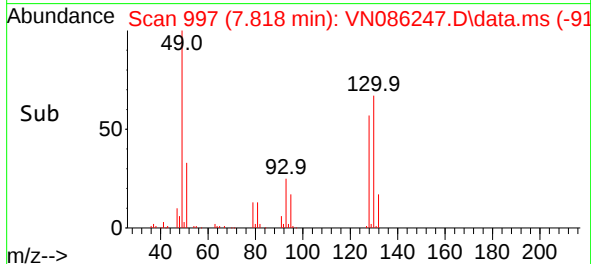
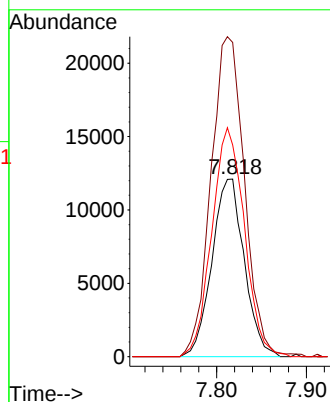
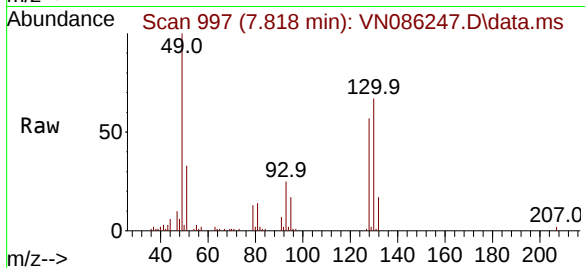
Tgt Ion:128 Resp: 30238

Ion Ratio Lower Upper

128 100

49 186.8 0.0 452.5

130 130.2 0.0 315.0



#3

Chloromethane

Concen: 0.347 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN086247.D

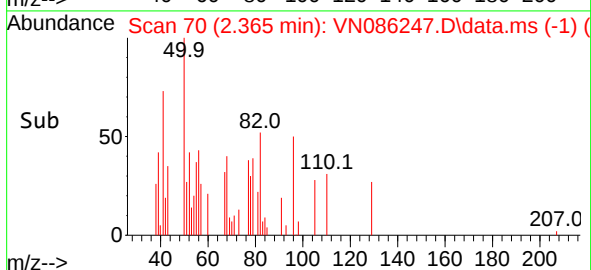
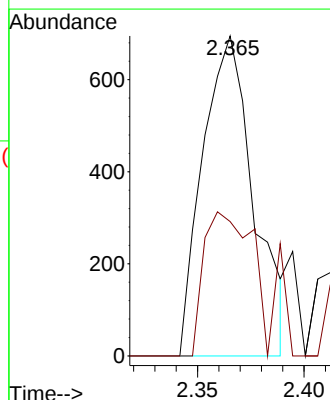
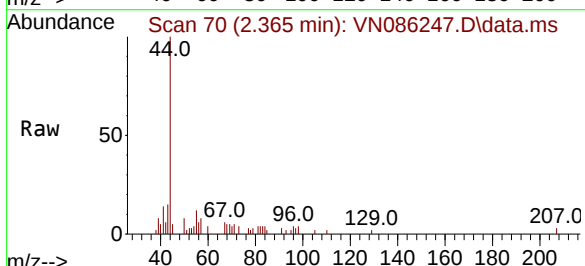
Acq: 11 Apr 2025 13:04

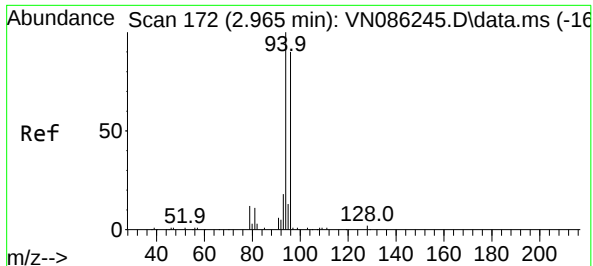
Tgt Ion: 50 Resp: 1161

Ion Ratio Lower Upper

50 100

52 42.0 26.4 39.6#

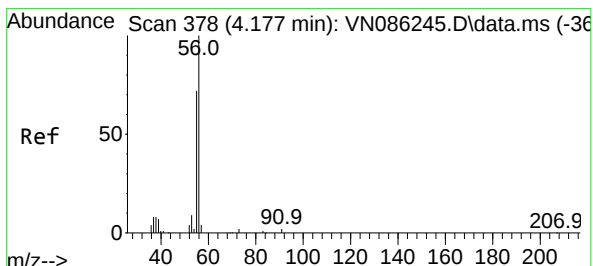
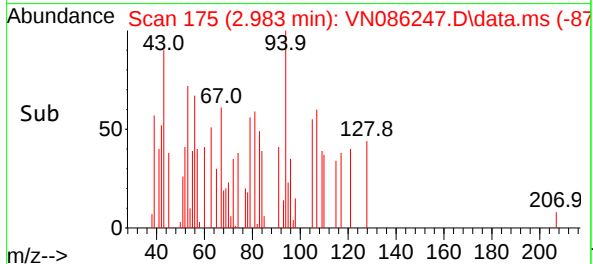
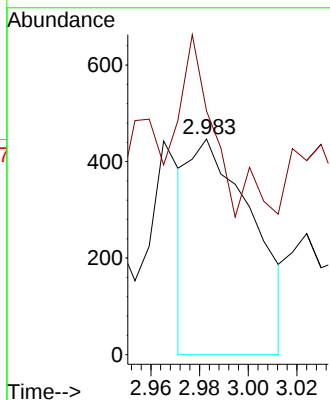
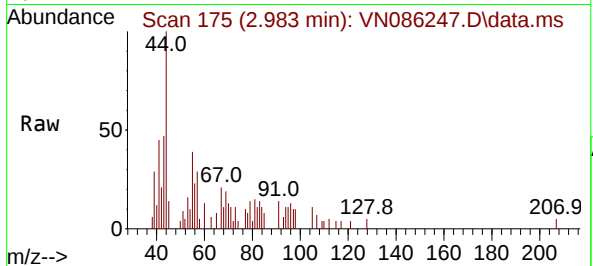




#5
Bromomethane
Concen: 0.512 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

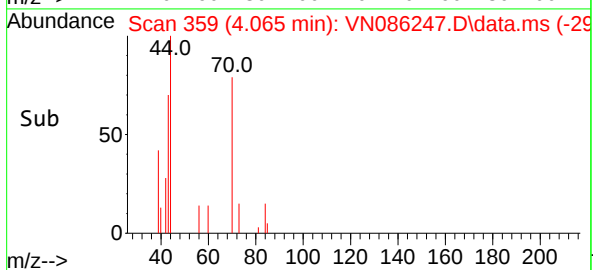
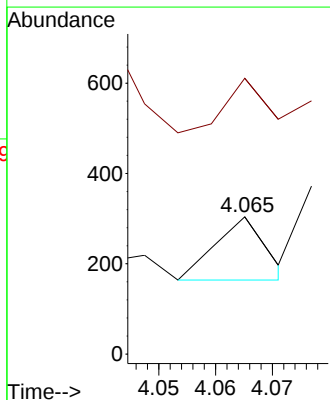
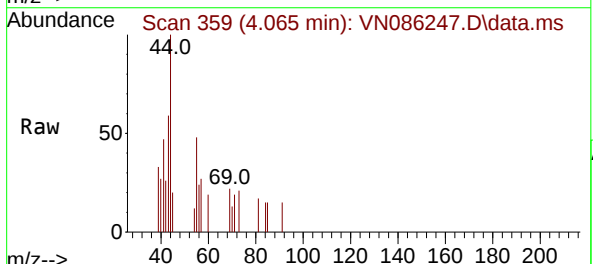
Instrument :
MSVOA_N
ClientSampleId :
IBLK

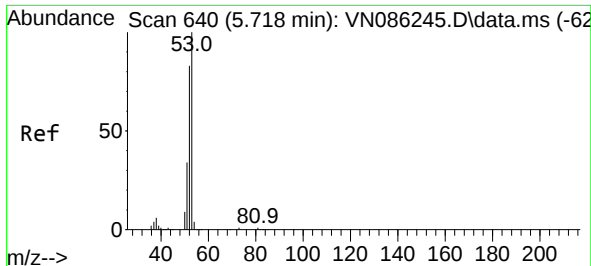
Tgt Ion: 94 Resp: 814
Ion Ratio Lower Upper
94 100
96 82.3 72.2 108.2



#13
Acrolein
Concen: 0.233 ug/l
RT: 4.065 min Scan# 359
Delta R.T. -0.112 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

Tgt Ion: 56 Resp: 86
Ion Ratio Lower Upper
56 100
55 69.8 56.5 84.7





#14

Acrylonitrile

Concen: 0.421 ug/l

RT: 5.724 min Scan# 641

Delta R.T. 0.006 min

Lab File: VN086247.D

Acq: 11 Apr 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

IBLK

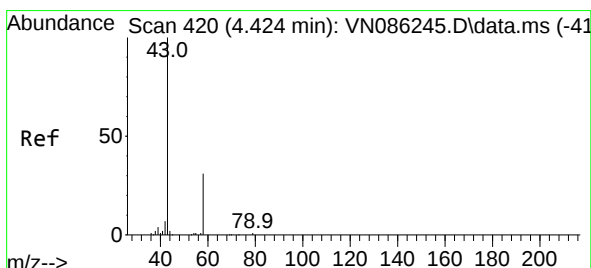
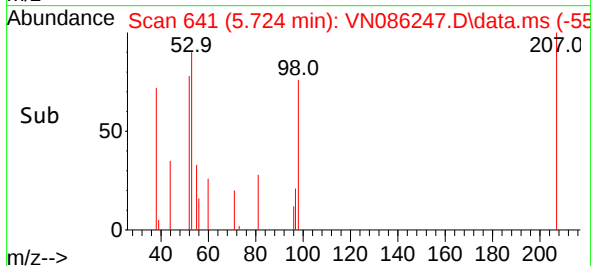
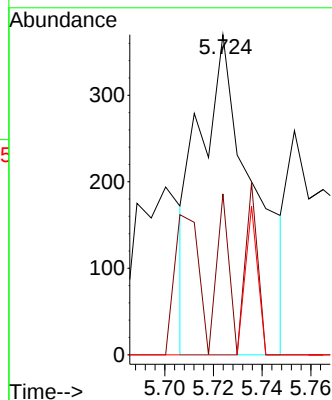
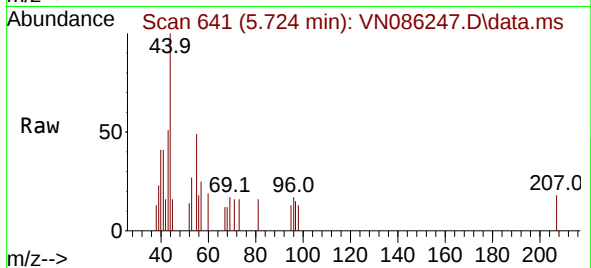
Tgt Ion: 53 Resp: 578

Ion Ratio Lower Upper

53 100

52 11.4 40.2 120.6#

51 0.0 17.5 52.6#



#15

Acetone

Concen: 0.207 ug/l

RT: 4.442 min Scan# 423

Delta R.T. 0.018 min

Lab File: VN086247.D

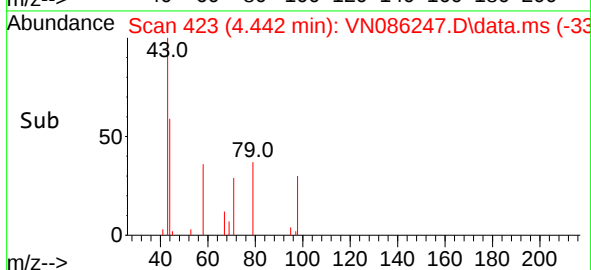
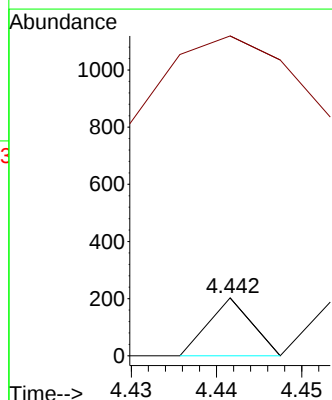
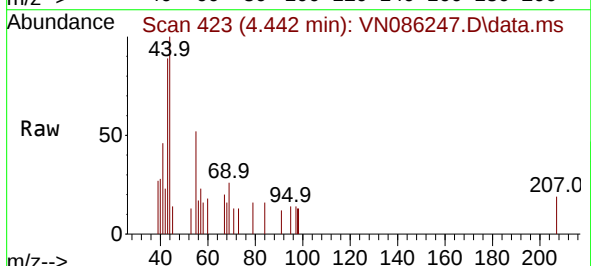
Acq: 11 Apr 2025 13:04

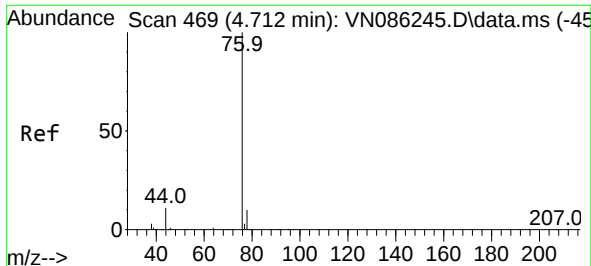
Tgt Ion: 58 Resp: 72

Ion Ratio Lower Upper

58 100

43 41.4 261.8 392.8#

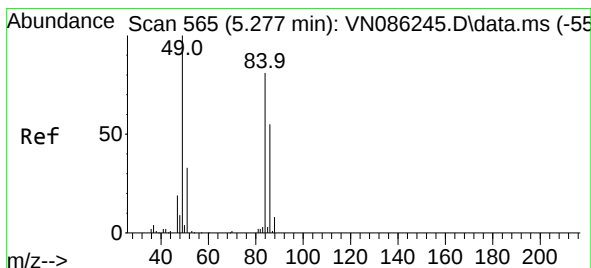
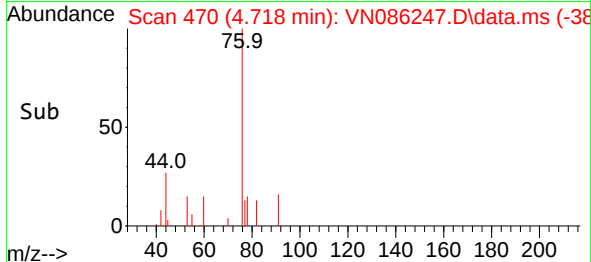
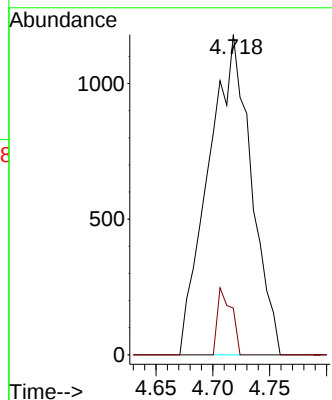
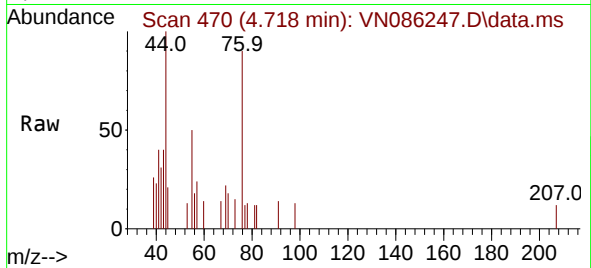




#16
Carbon Disulfide
Concen: 0.468 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

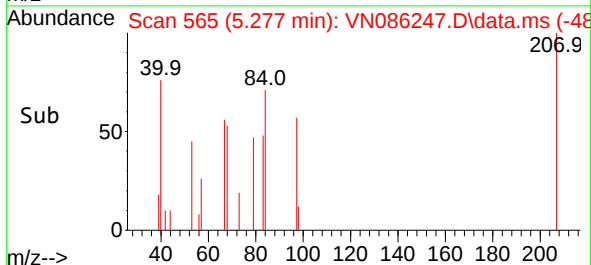
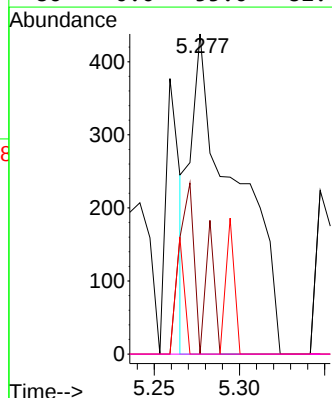
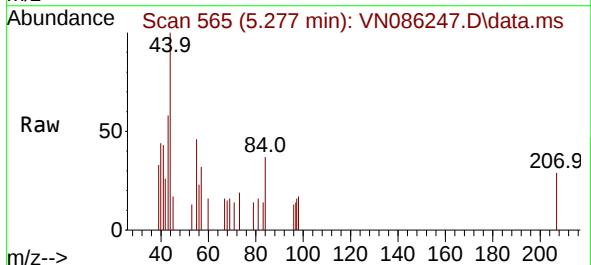
Instrument :
MSVOA_N
ClientSampleId :
IBLK

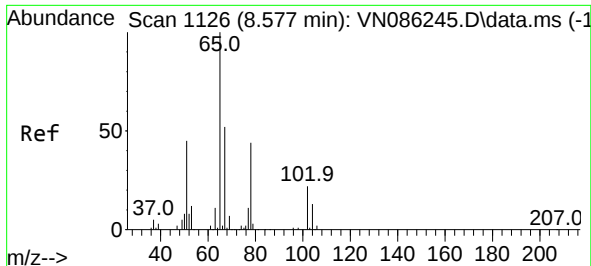
Tgt Ion: 76 Resp: 3089
Ion Ratio Lower Upper
76 100
78 14.6 7.7 11.5#



#18
Methylene Chloride
Concen: 0.307 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

Tgt Ion: 84 Resp: 805
Ion Ratio Lower Upper
84 100
49 0.0 99.1 148.7#
51 0.0 32.3 48.5#
86 0.0 55.0 82.4#





#27

1,2-Dichloroethane-d4

Concen: 30.712 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086247.D

Acq: 11 Apr 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

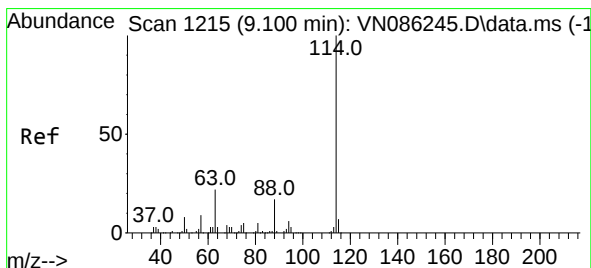
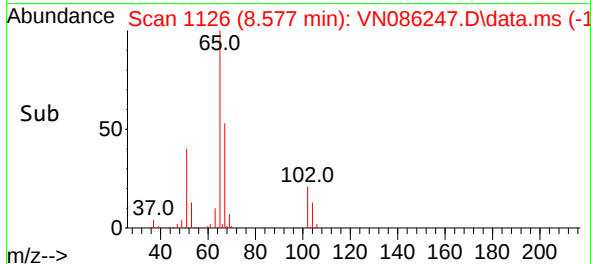
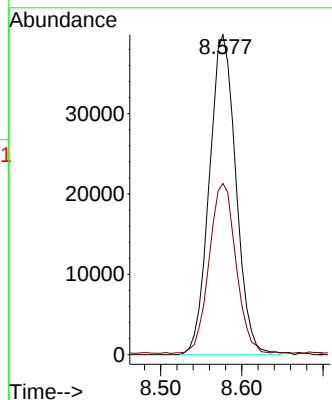
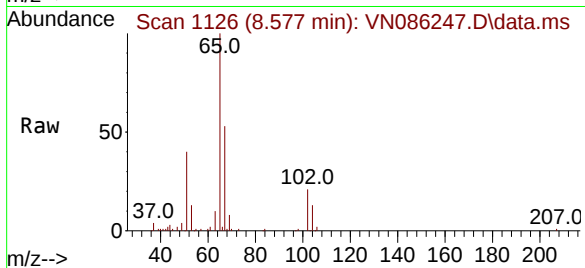
IBLK

Tgt Ion: 65 Resp: 90581

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# 1215

Delta R.T. -0.000 min

Lab File: VN086247.D

Acq: 11 Apr 2025 13:04

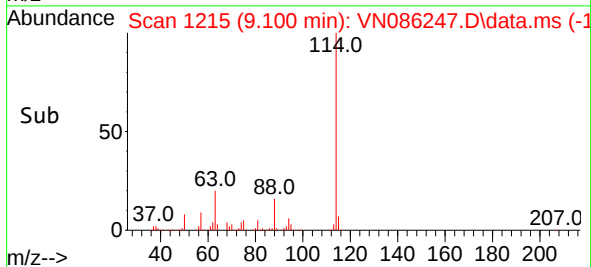
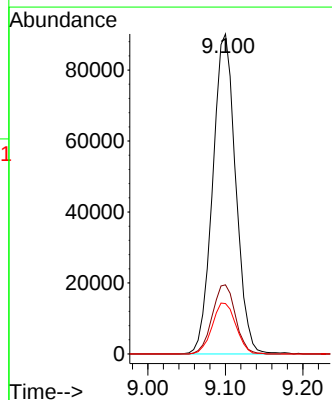
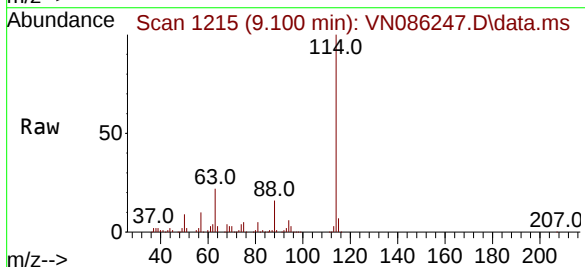
Tgt Ion: 114 Resp: 185959

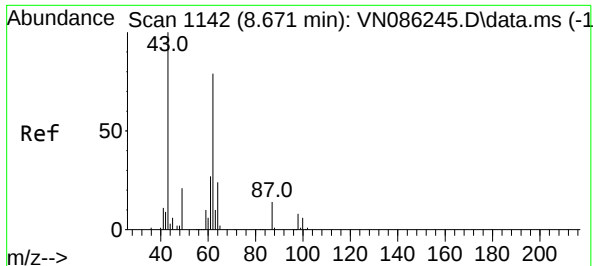
Ion Ratio Lower Upper

114 100

63 21.8 17.8 26.6

88 16.4 13.4 20.2





#36

1,2-Dichloroethane

Concen: 1.981 ug/l

RT: 9.100 min Scan# 1142

Delta R.T. 0.429 min

Lab File: VN086247.D

Acq: 11 Apr 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

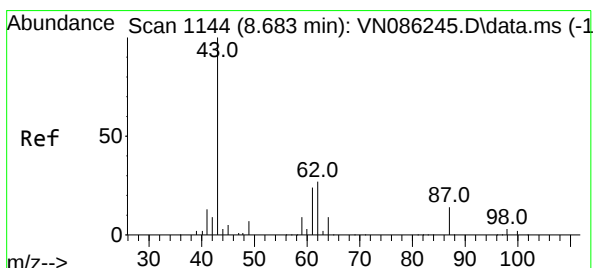
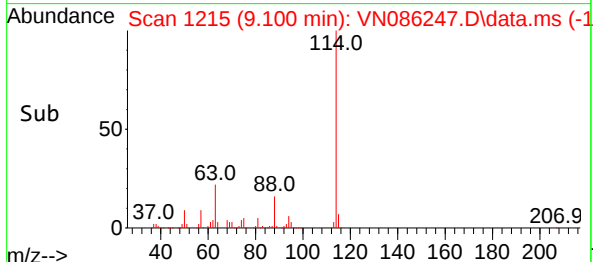
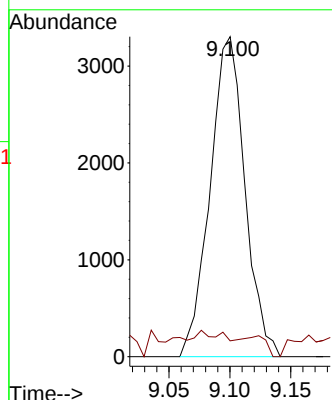
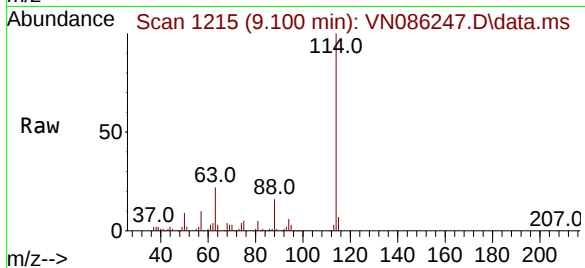
IBLK

Tgt Ion: 62 Resp: 6571

Ion Ratio Lower Upper

62 100

98 2.1 8.6 12.8#



#44

Isopropyl Acetate

Concen: 0.374 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VN086247.D

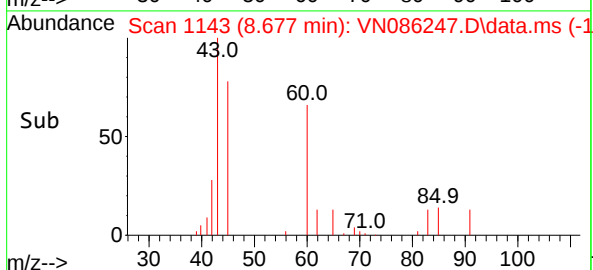
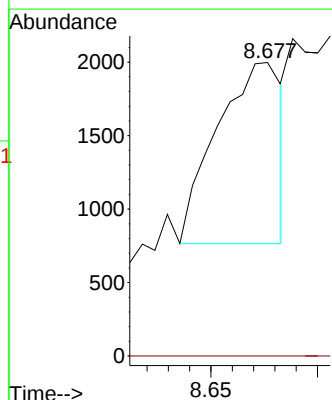
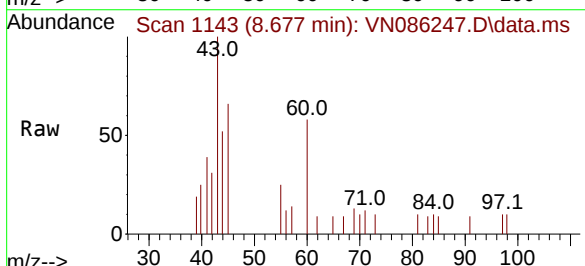
Acq: 11 Apr 2025 13:04

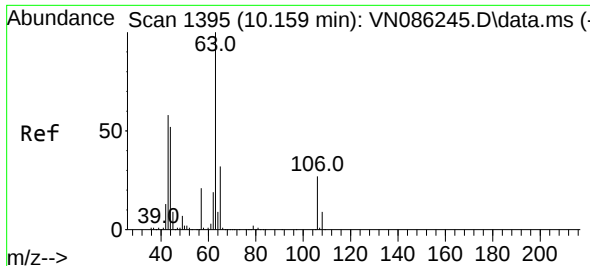
Tgt Ion: 43 Resp: 2586

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#

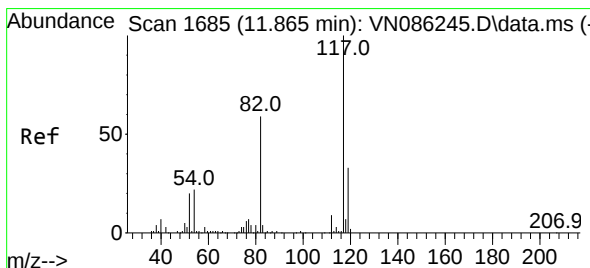
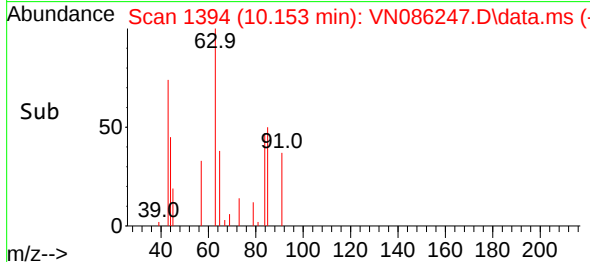
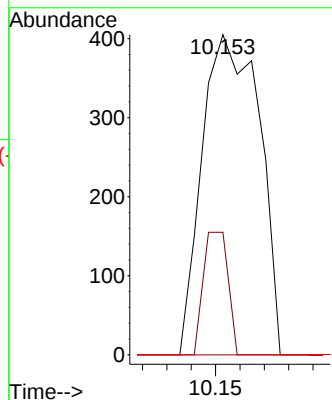
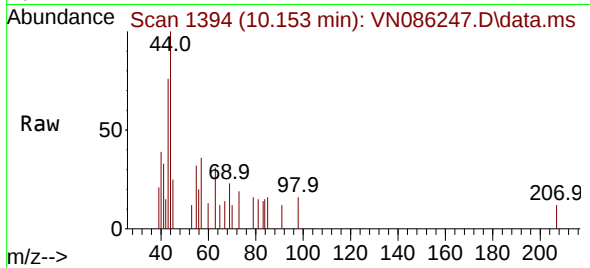




#55
2-Chloroethyl vinyl ether
Concen: 0.394 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

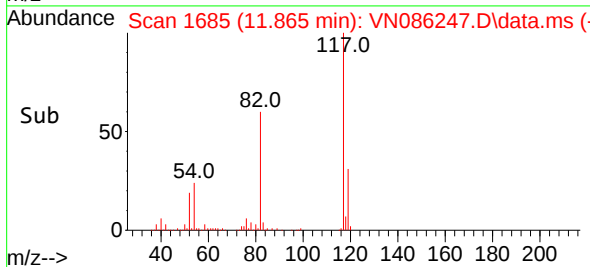
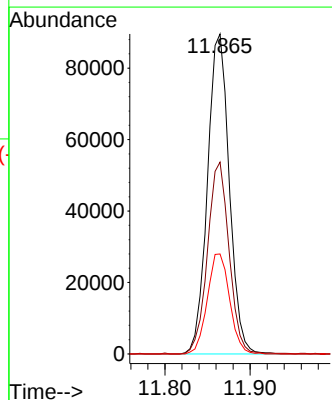
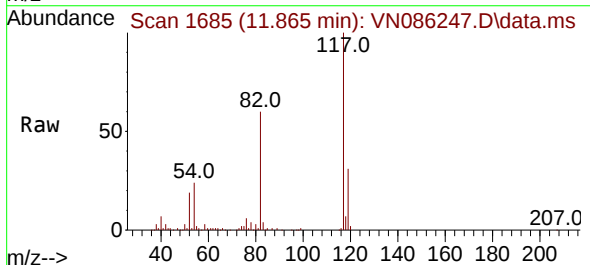
Instrument :
MSVOA_N
ClientSampleId :
IBLK

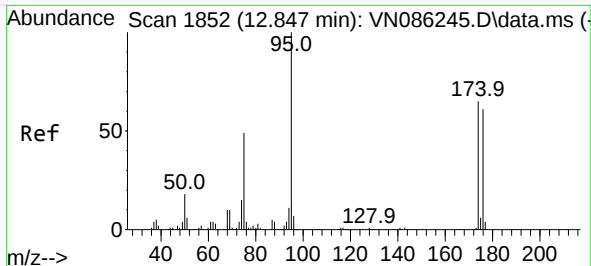
Tgt Ion:	63	Resp:	661
Ion	Ratio	Lower	Upper
63	100		
65	16.5	25.8	38.8#
106	0.0	21.8	32.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

Tgt Ion:	117	Resp:	159388
Ion	Ratio	Lower	Upper
117	100		
82	59.3	47.3	70.9
119	32.1	25.9	38.9

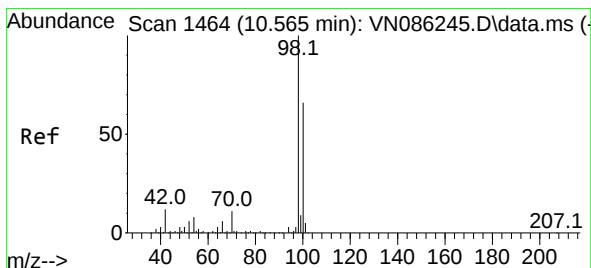
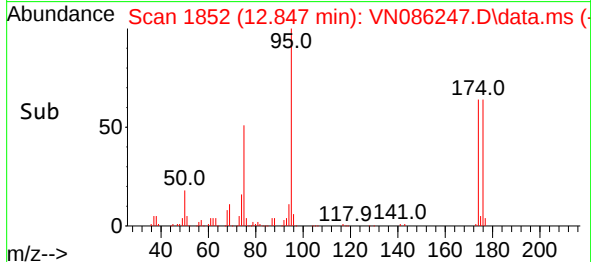
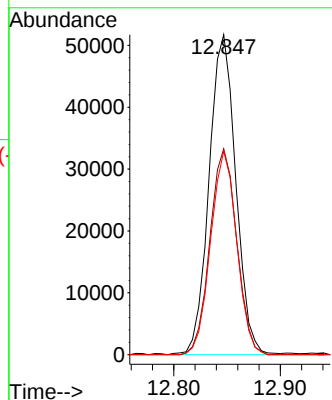
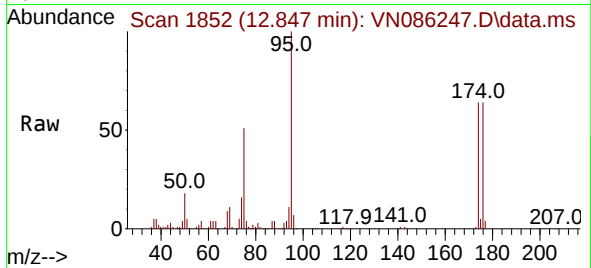




#60
4-Bromofluorobenzene
Concen: 28.331 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

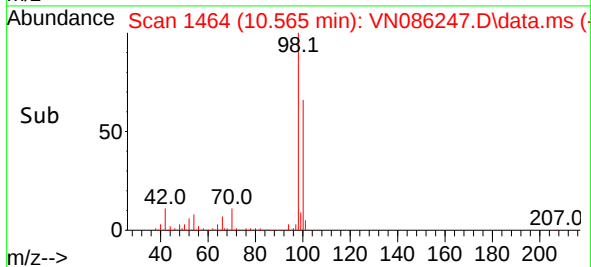
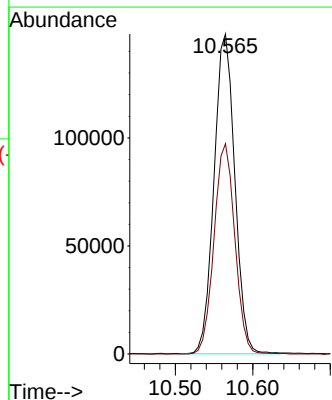
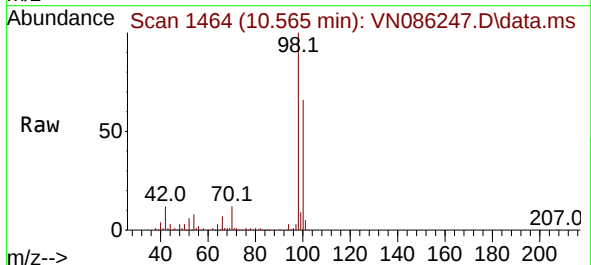
Instrument :
MSVOA_N
ClientSampleId :
IBLK

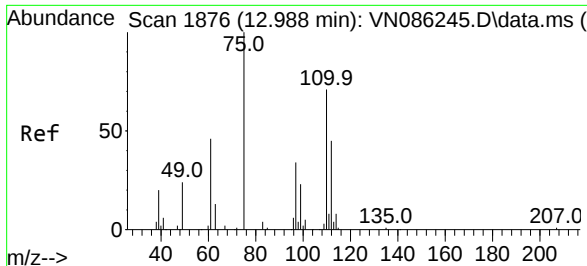
Tgt Ion: 95 Resp: 89905
Ion Ratio Lower Upper
95 100
174 64.6 52.7 79.1
176 62.1 49.8 74.8



#63
Toluene-d8
Concen: 30.714 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

Tgt Ion: 98 Resp: 276374
Ion Ratio Lower Upper
98 100
100 65.7 52.3 78.5

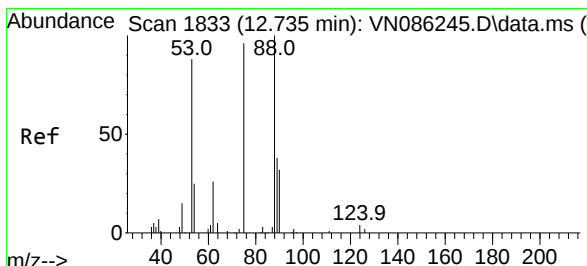
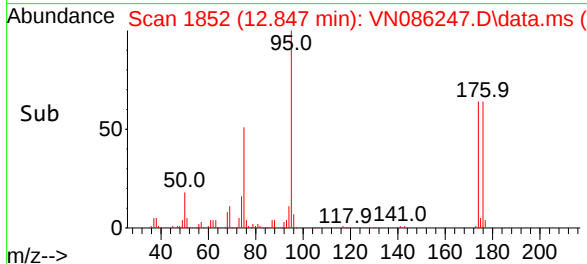
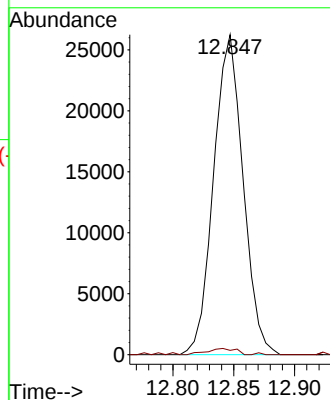
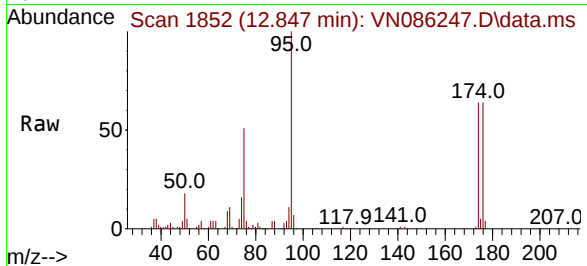




#72
1,2,3-Trichloropropane
Concen: 13.937 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

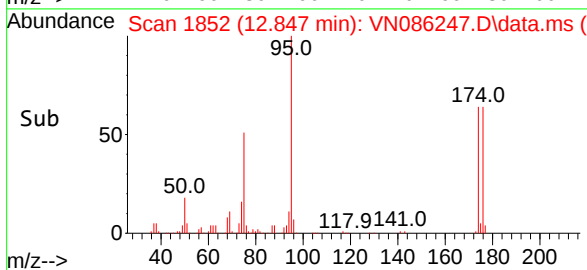
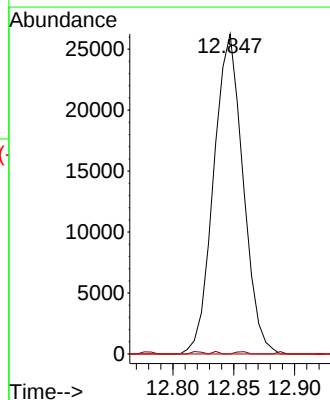
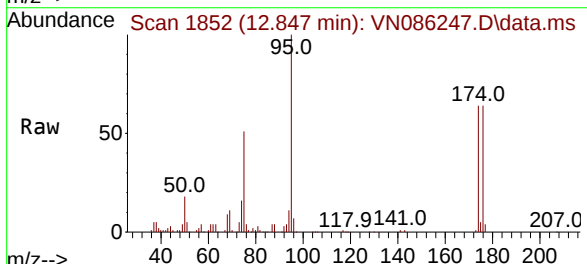
Instrument :
MSVOA_N
ClientSampleId :
IBLK

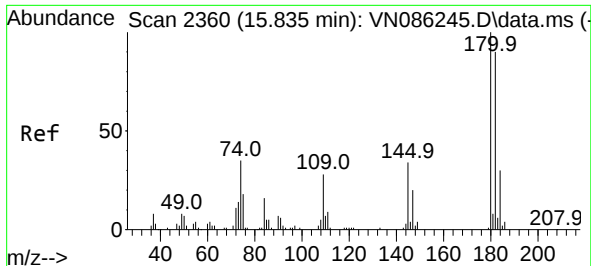
Tgt Ion: 75 Resp: 44150
Ion Ratio Lower Upper
75 100
77 1.5 0.0 380.0



#77
t-1,4-Dichloro-2-butene
Concen: 30.227 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

Tgt Ion: 75 Resp: 44150
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#





#89

1,2,4-Trichlorobenzene

Concen: 0.273 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086247.D

Acq: 11 Apr 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

IBLK

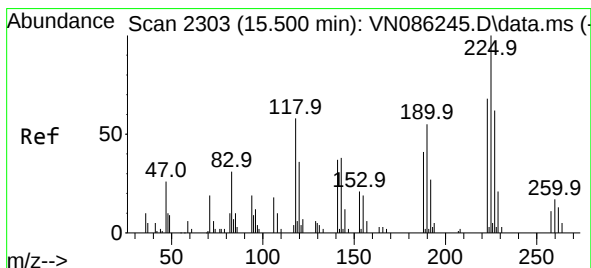
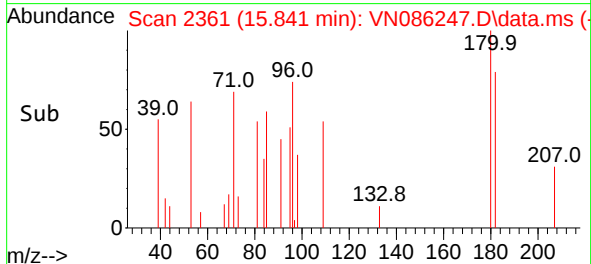
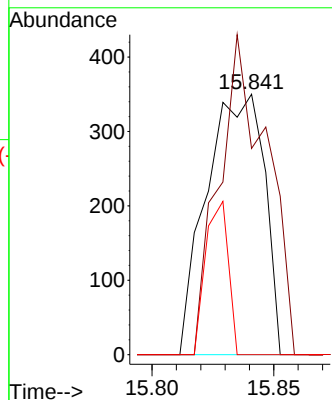
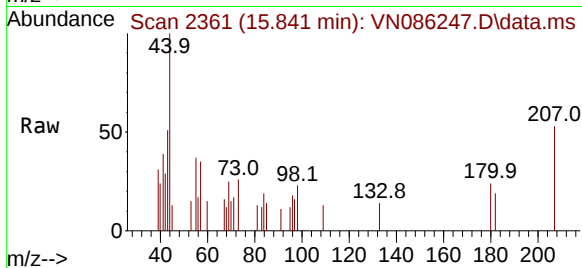
Tgt Ion:180 Resp: 578

Ion Ratio Lower Upper

180 100

182 101.4 75.1 112.7

145 23.2 27.1 40.7#



#90

Hexachlorobutadiene

Concen: 0.553 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN086247.D

Acq: 11 Apr 2025 13:04

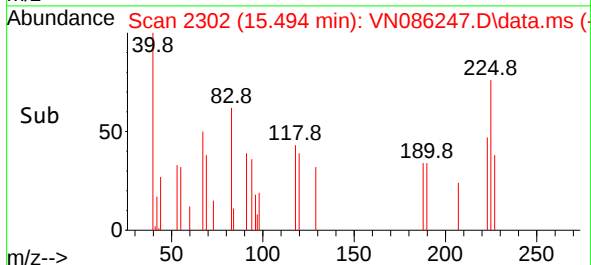
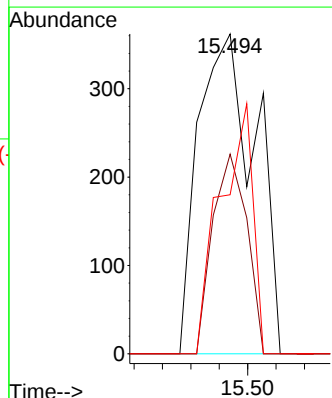
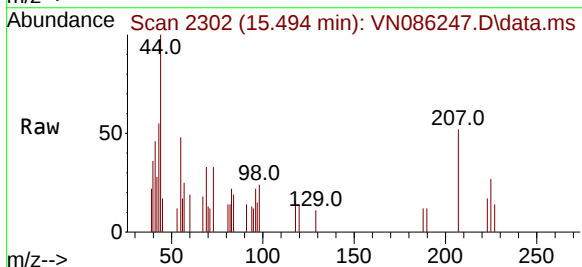
Tgt Ion:225 Resp: 505

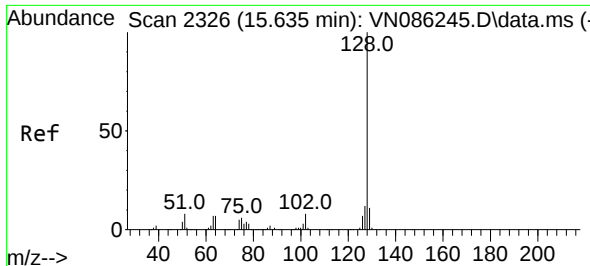
Ion Ratio Lower Upper

225 100

223 37.6 0.0 130.0

227 44.8 0.0 123.2

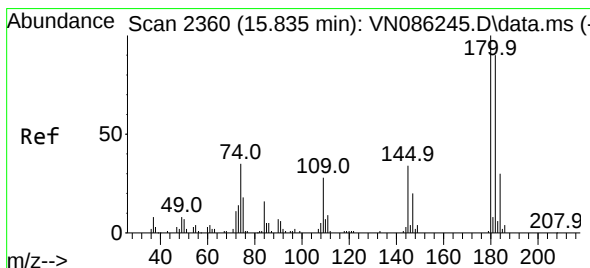
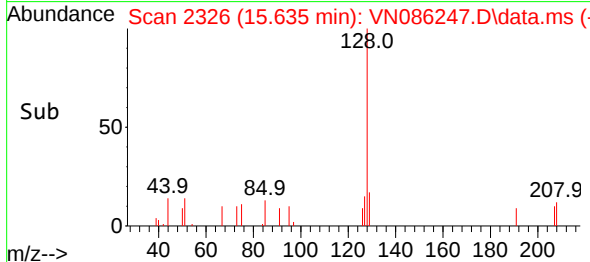
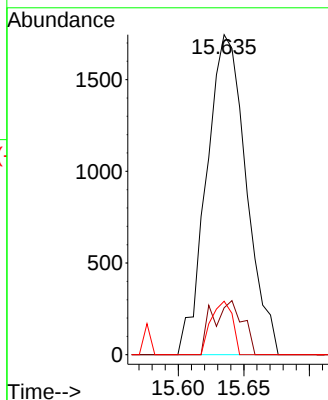
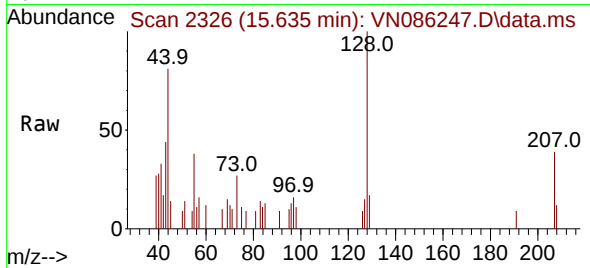




#91
Naphthalene
Concen: 0.441 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:128 Resp: 3674
Ion Ratio Lower Upper
128 100
127 8.8 10.2 15.2#
129 9.0 8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 0.273 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086247.D
Acq: 11 Apr 2025 13:04

Tgt Ion:180 Resp: 578
Ion Ratio Lower Upper
180 100
182 101.4 0.0 187.8
145 23.2 0.0 67.8

