

## Pacific Bottlenose Dolphin Blubber

Nontargeted biomonitoring of halogenated organic compounds in two ecotypes of bottlenose dolphins (*Tursiops truncatus*) from the Southern California Bight

Authors: Nellie J. Shaul, Nathan G. Dodder, Lihini I. Aluwihare, Susan A. Mackintosh, Keith A. Maruya, Susan J. Chivers, Kerri Danil, David W. Weller, Eunha Hoh

Web Reference: <http://OrgMassSpec.github.io>

Prepared: 2014-10-06 17:22:46  
SpecLibDolphin2014 version 0.1-1  
OrgMassSpecR version 0.4-4  
R version 3.1.0 (2014-04-10)

Name: chlordane related 1

Class: Chlordane-related

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1201.66, 1.181

Ecotype: coastal

Quantitative Ion m/z: 238

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>6</sub>

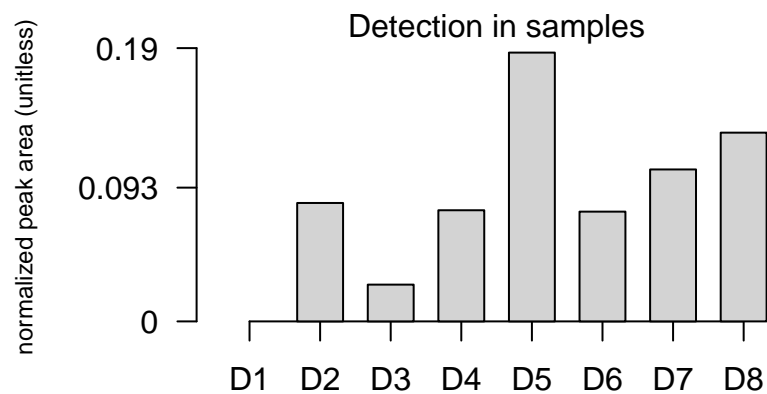
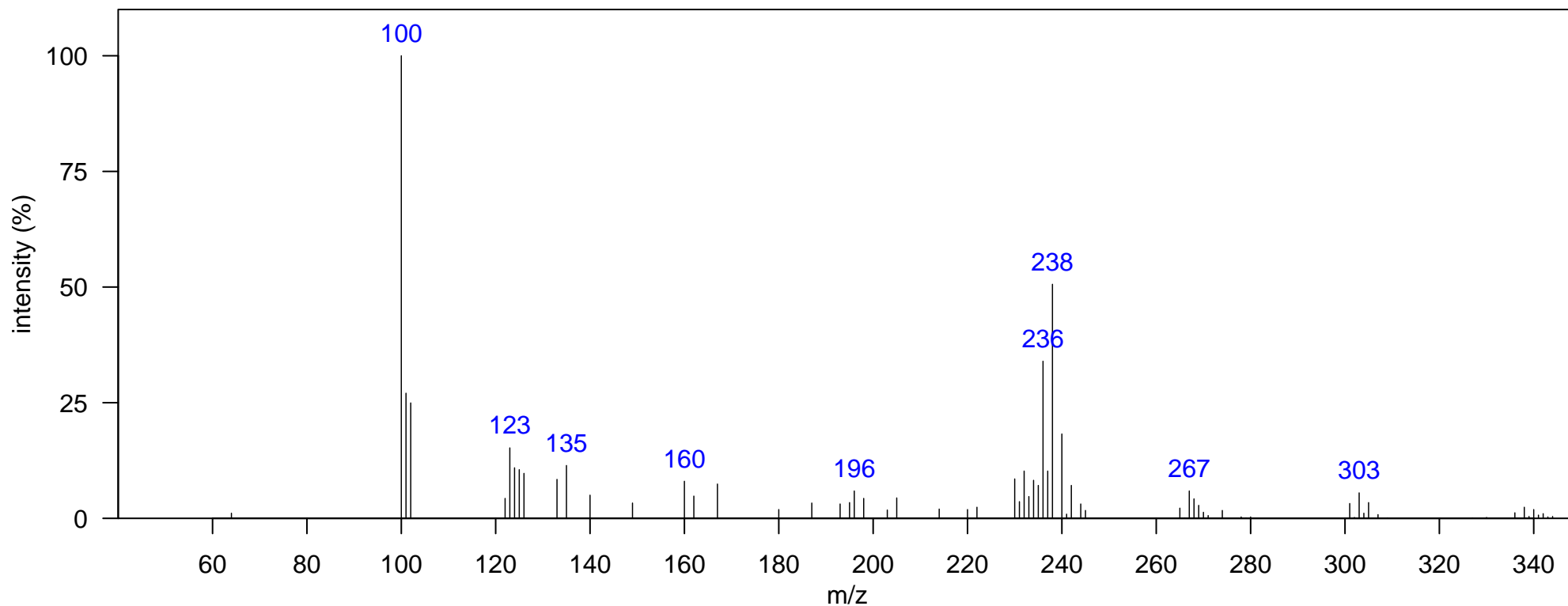
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: chlordane related 1

Source: anthropogenic

Comment:

Identification: Manual



m/z [Fragment]
236 [C5HCl5]+
265 [M-HCl3]+
301 [M-Cl]+
336 M+

Name: hydroxychlordene

Class: Chlordane-related

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1201.66, 1.201

Ecotype: coastal

Quantitative Ion m/z: 319

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>6</sub>O

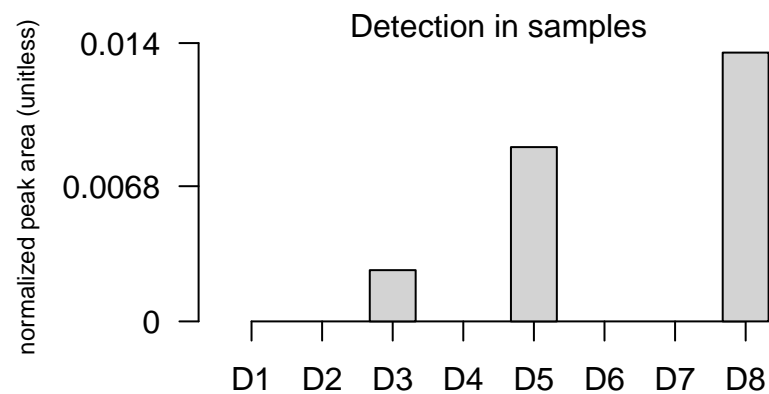
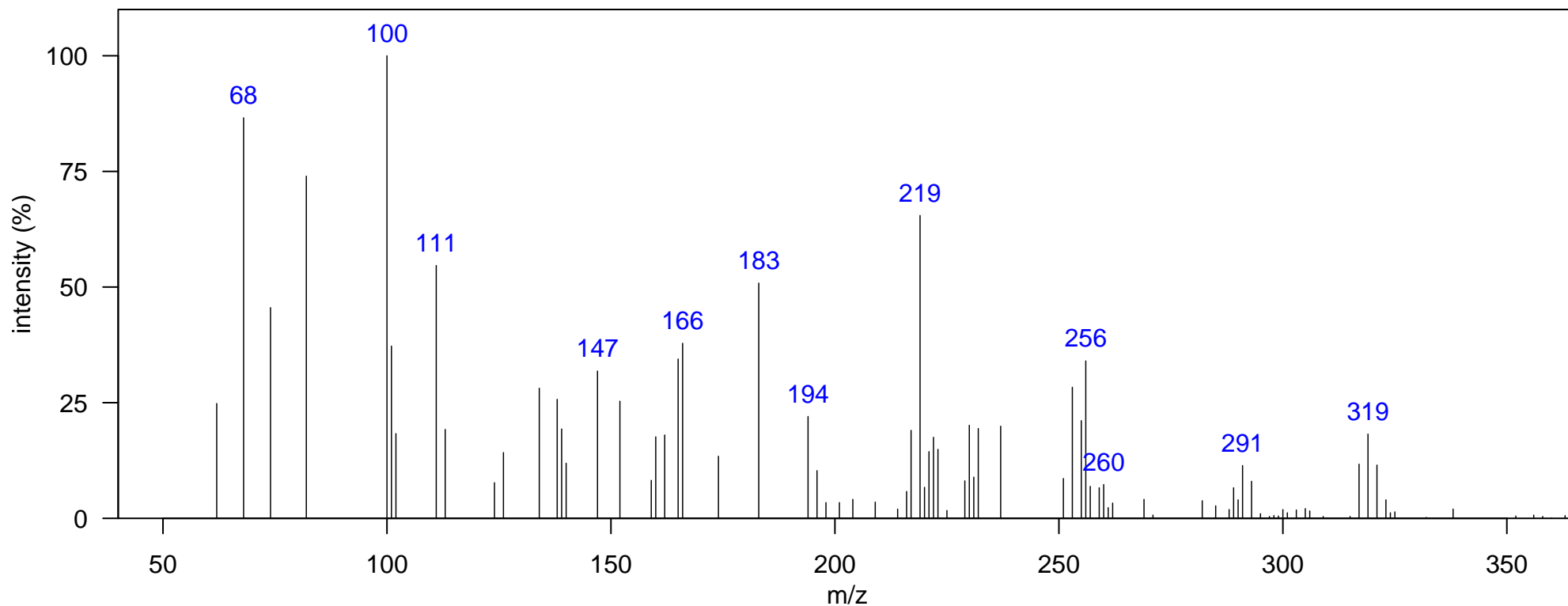
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: 1-hydroxychlordene

Source: anthropogenic

Comment:

Identification: Reference Database MS



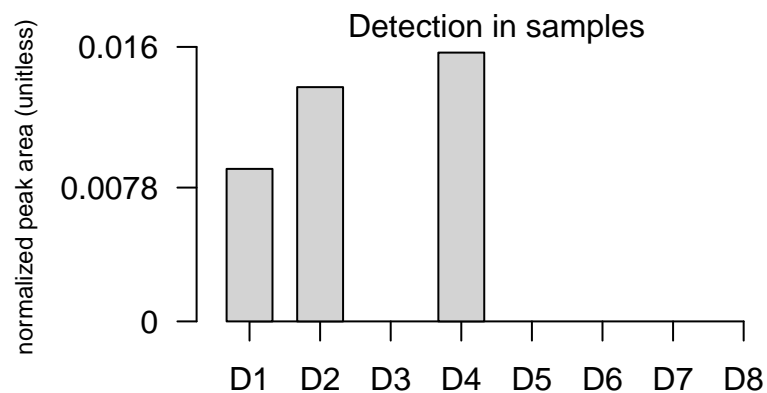
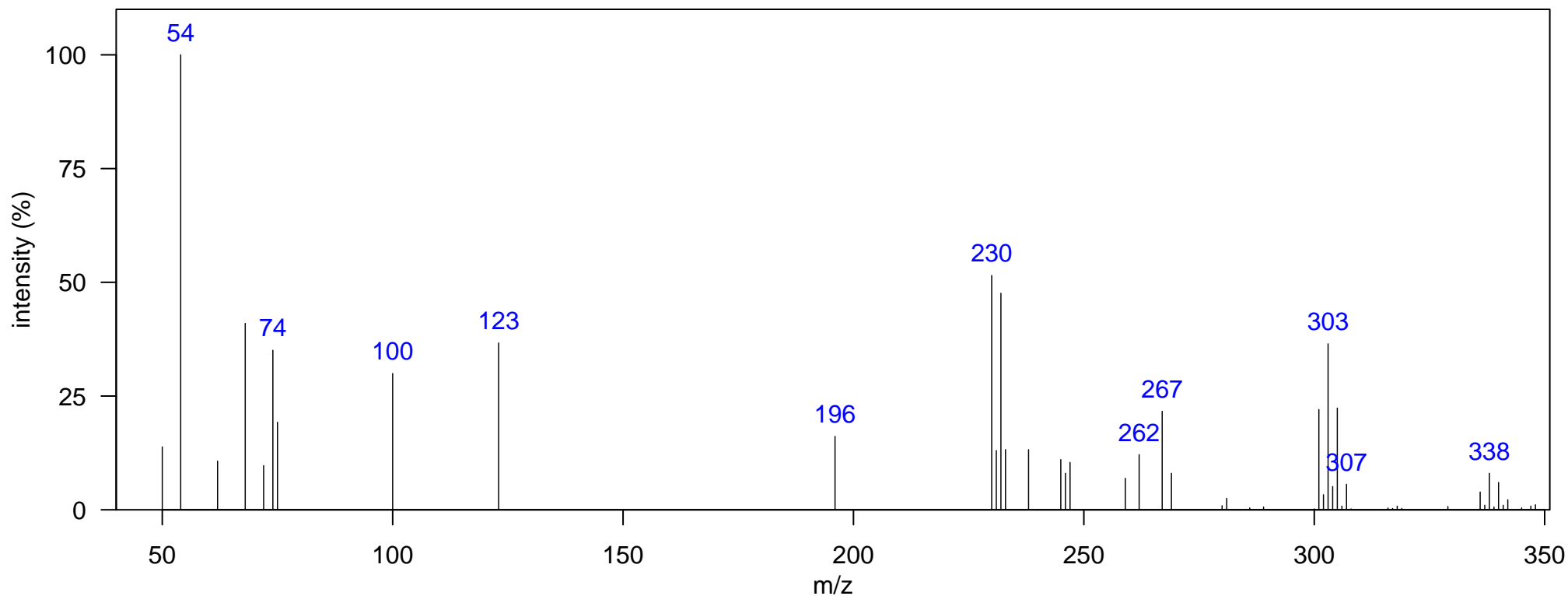
m/z [Fragment]
317 [M-Cl] <sup>+</sup>

Name: chlordane related 2

Class: Chlordane-related

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1226.14, 1.208  
Ecotype: offshore Quantitative Ion m/z: 303  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib: gamma-chlordene  
Comment: gamma-chlordene

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>6</sub>  
Source: anthropogenic  
Identification: Reference Database MS



m/z [Fragment]
230 [M-H3Cl3]+
301 [M-Cl]+
336 M+

Name: chlordane related 3

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1261.12, 1.274

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

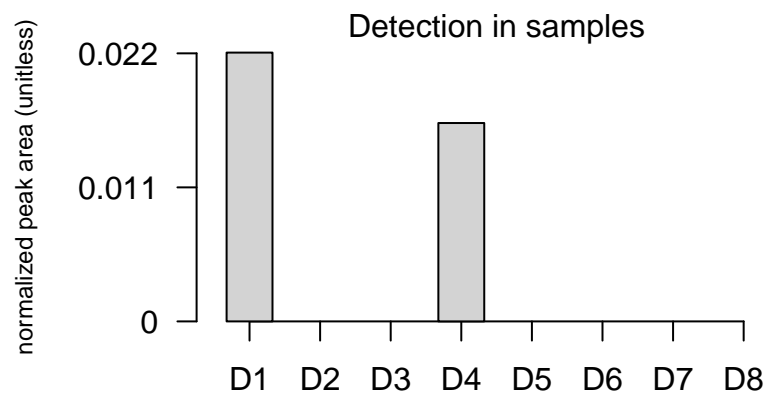
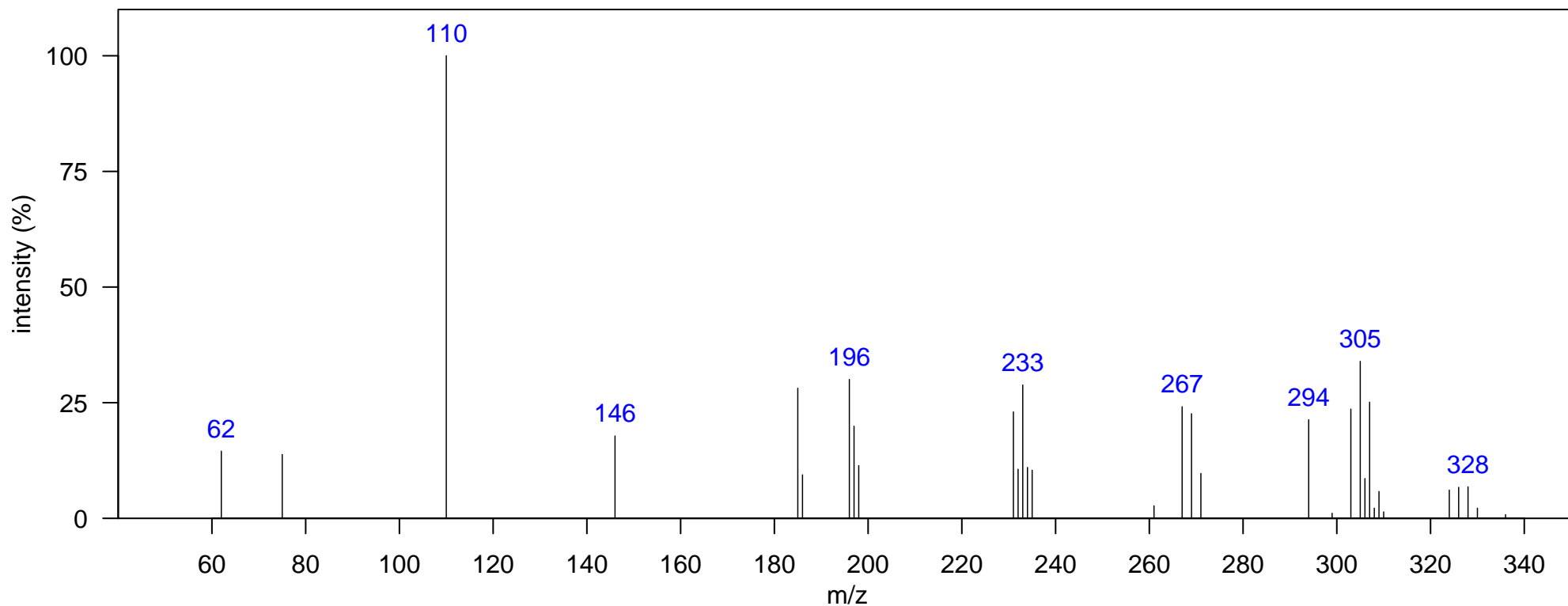
Quantitative Ion m/z: 305

Atlantic Lib: chlordane related 3

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual



m/z [Fragment]
196 [Frag-H2Cl2]
231 [Frag-H2Cl2]+
267 [Frag-HCl]+
303 [Frag]+ Contains 5Cl

Name: chlordene 1

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1439.52, 0.957

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment: chlordene

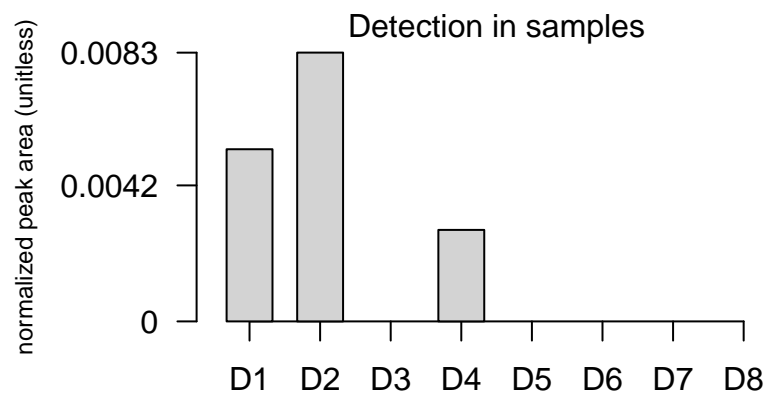
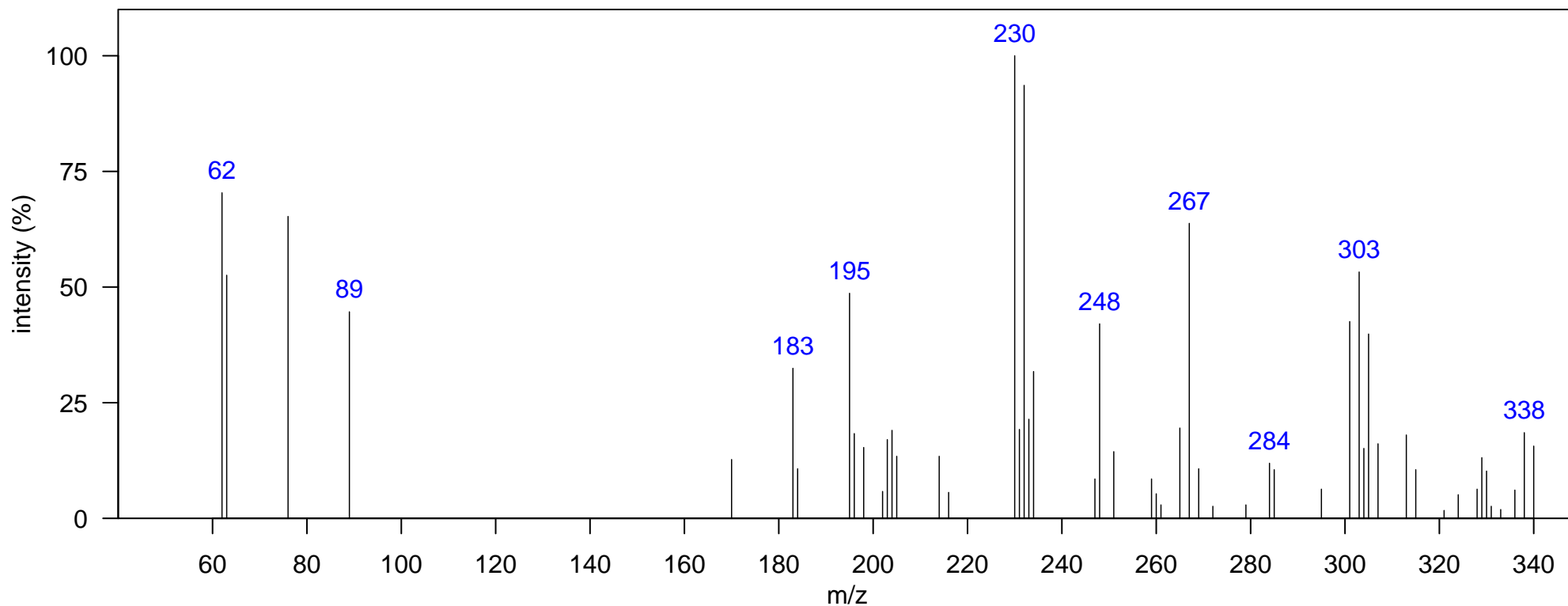
Quantitative Ion m/z: 232

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Reference Database MS



m/z [Fragment]
230 [M-HCl3]+
301 [M-Cl]+
336 M+

Name: chlordene 2

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1446.52, 0.95

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment: chlordene (isomer)

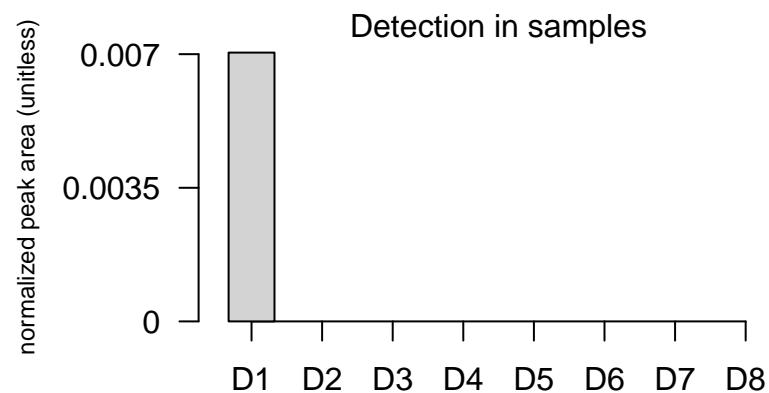
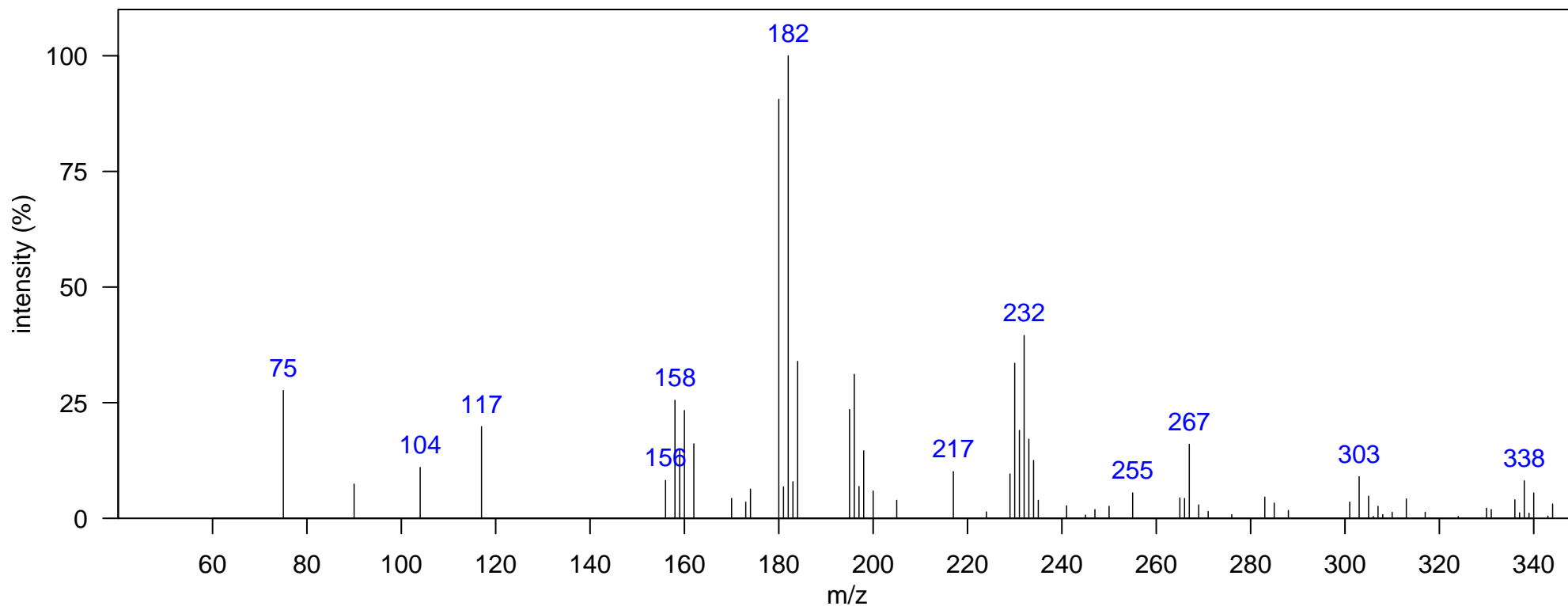
Quantitative Ion m/z: 232

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Reference Database MS



m/z [Fragment]
230 [M-HCl3] <sup>+</sup>
301 [M-Cl] <sup>+</sup>
336 M <sup>+</sup>

Name: chlordane related 4

Class: Chlordane-related

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1264.62, 1.195

Ecotype: coastal

Quantitative Ion m/z: 339

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Cl<sub>7</sub>

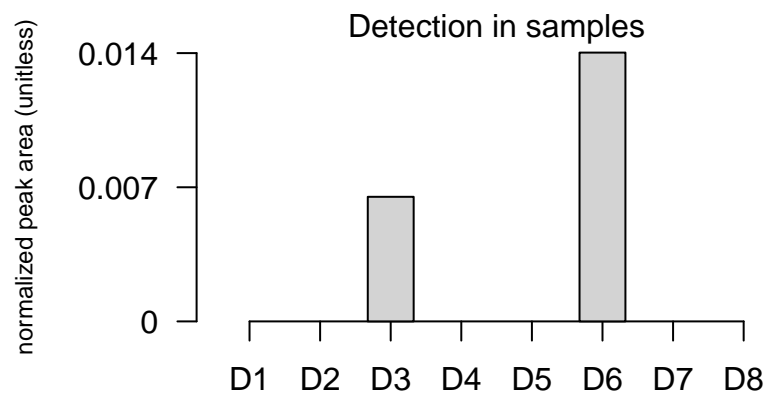
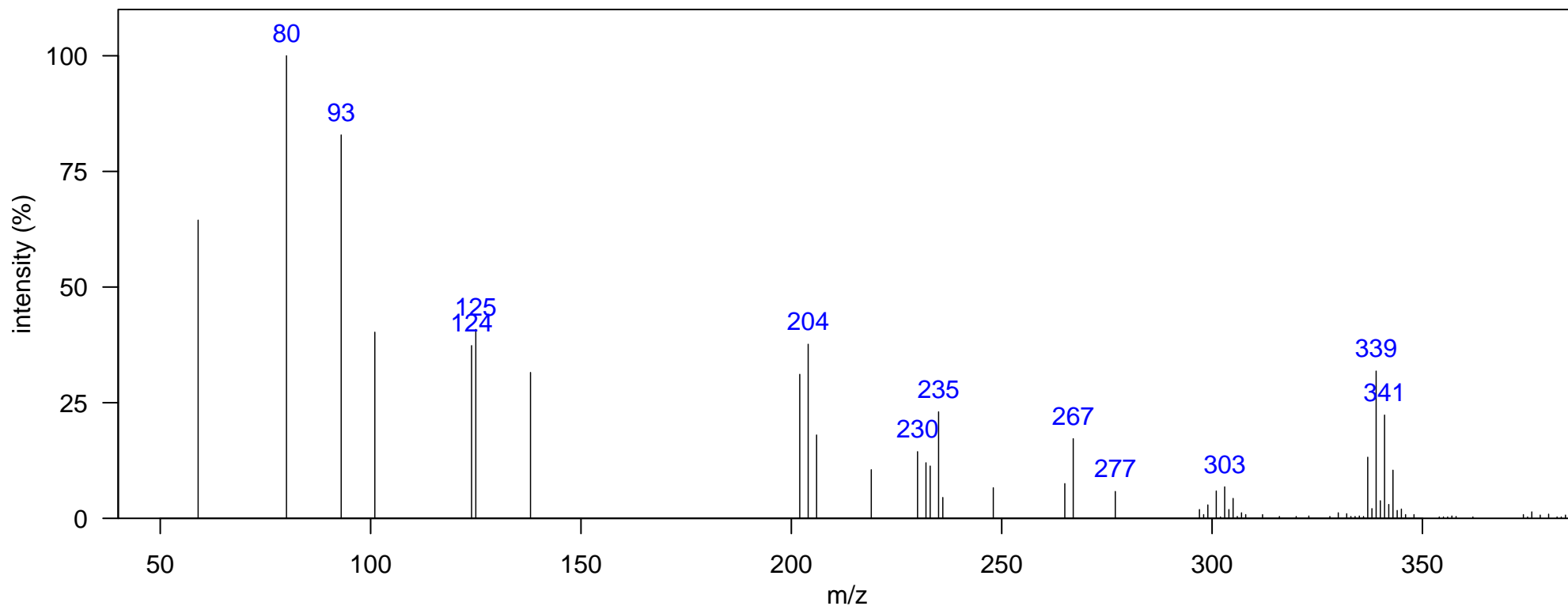
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: chlordane related 4

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
202 [C <sub>5</sub> H <sub>2</sub> Cl <sub>4</sub> ] <sup>+</sup>
301 [M-HCl <sub>2</sub> ] <sup>+</sup>
337 [M-Cl] <sup>+</sup>
372 M <sup>+</sup>



Name: chlordane related 5

Class: Chlordane-related

Sample: SoCal dolphin blubber D6, DSJ2155 1D RT, 2D RT (s): 1320.59, 1.32

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment: oxychlordane, but 7 chlorines

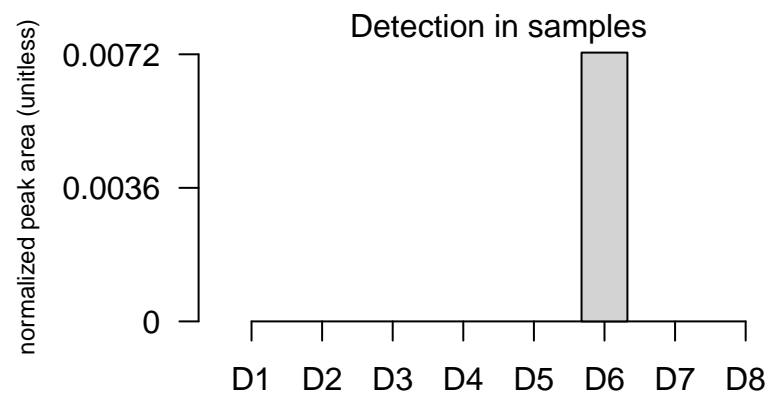
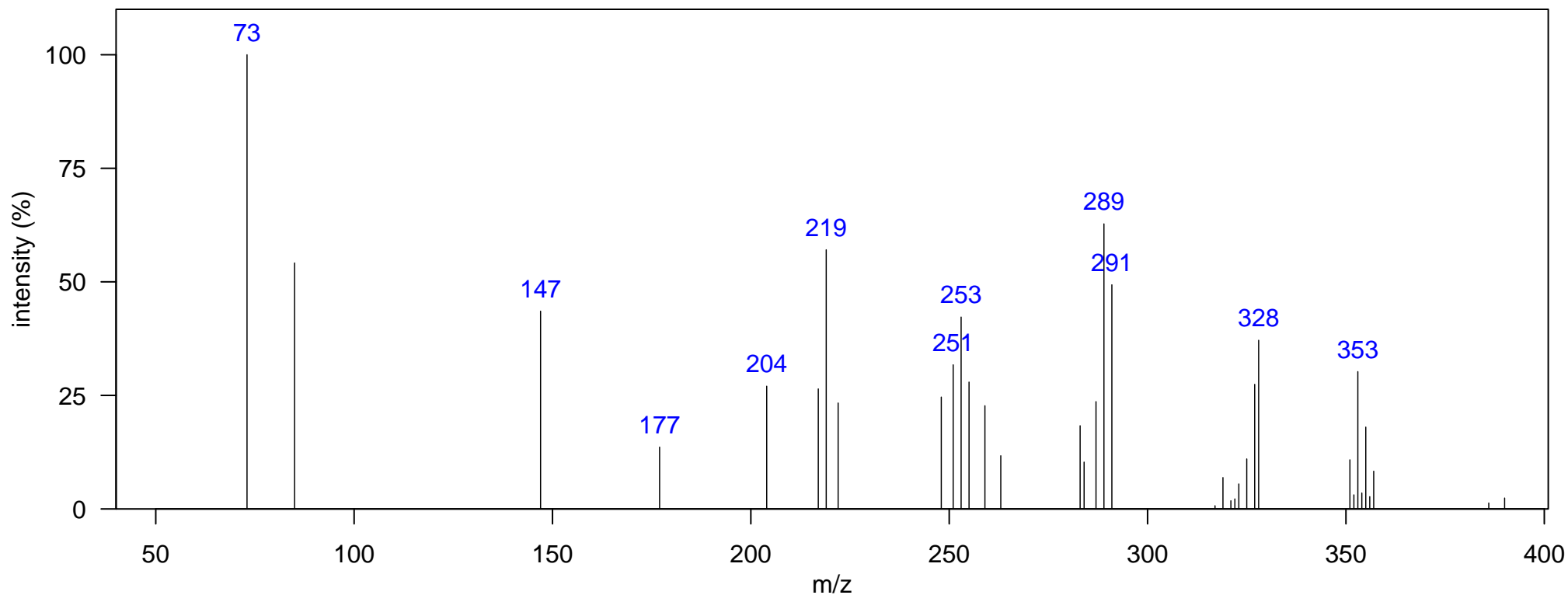
Quantitative Ion m/z: 353

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>5</sub>Cl<sub>7</sub>O

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
351 [M-Cl] <sup>+</sup>

Name: chlordane related 6

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1327.58, 1.353

Ecotype: coastal

Quantitative Ion m/z: 339

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Cl<sub>7</sub>

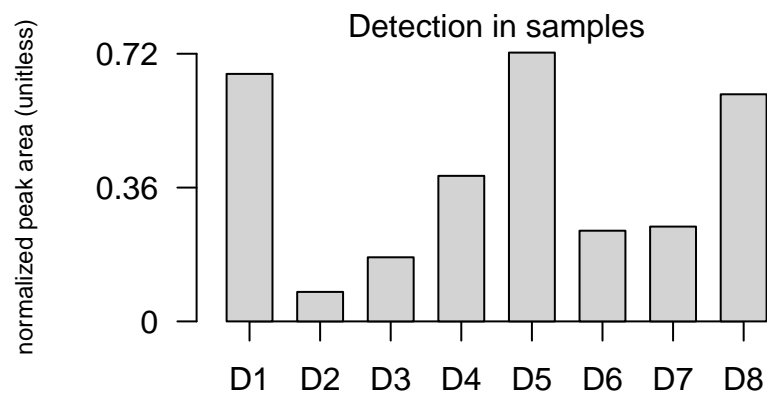
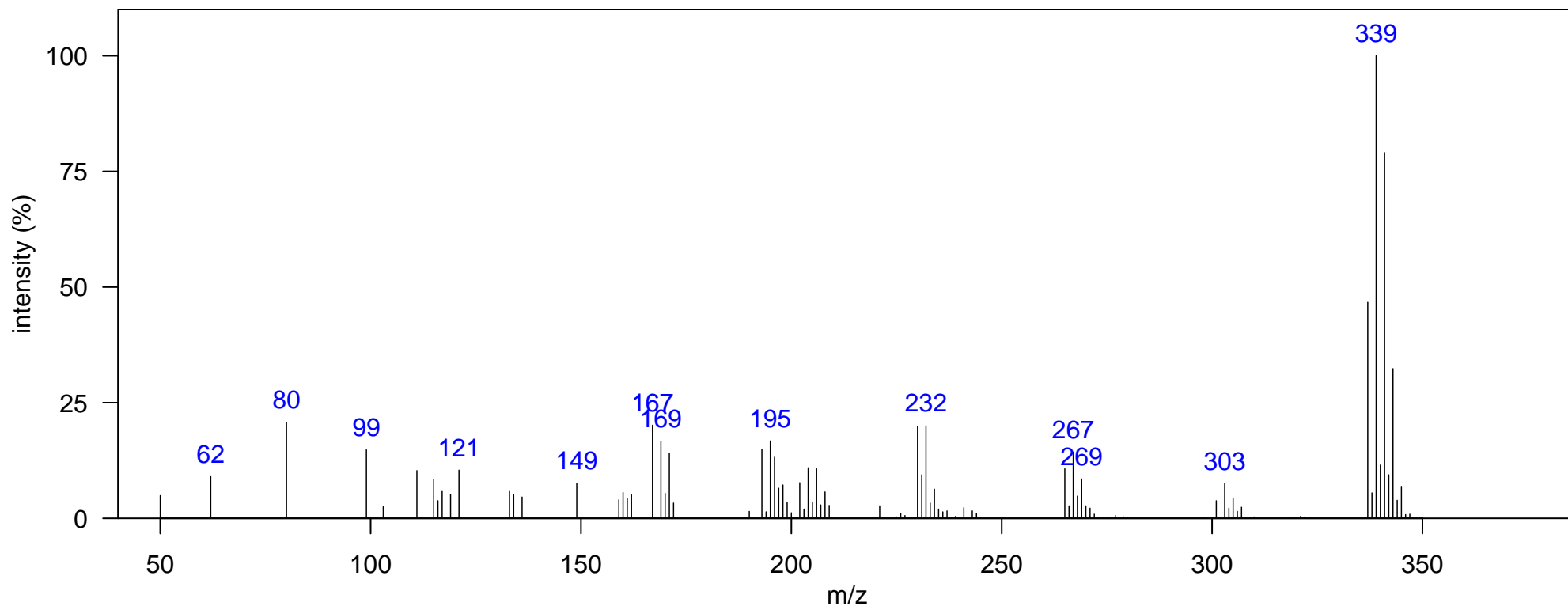
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: chlordane related 7

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]

230 [M-H<sub>2</sub>Cl<sub>4</sub>]<sup>+</sup>

265 [M-H<sub>2</sub>Cl<sub>3</sub>]<sup>+</sup>

301 [M-HCl<sub>2</sub>]<sup>+</sup>

337 [M-Cl]<sup>+</sup>

Name: chlordane related 7

Class: Chlordane-related

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1450.01, 1.432

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

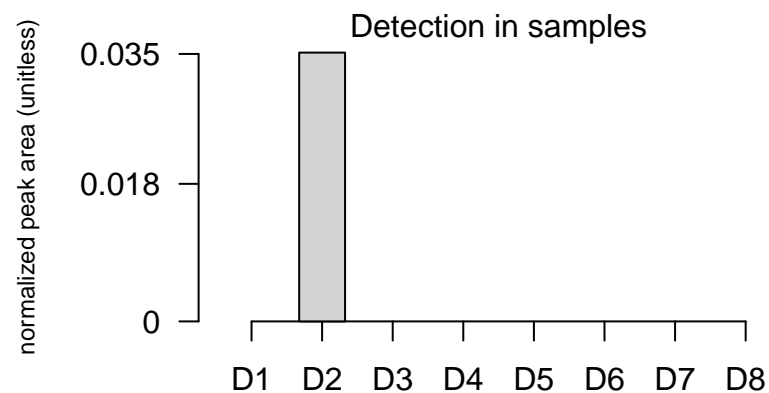
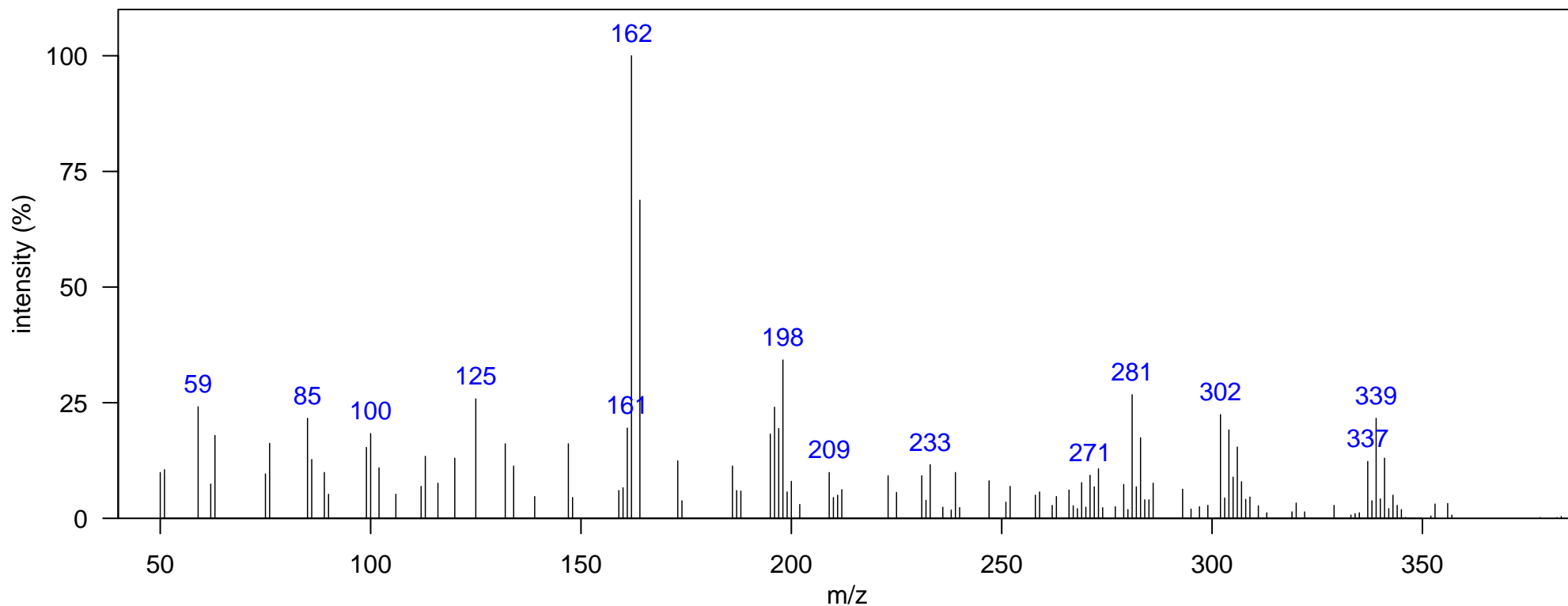
Quantitative Ion m/z: 339

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual



m/z [Fragment]
337 [M-Cl] <sup>+</sup>

Name: chlordane related 8

Class: Chlordane-related

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1282.11, 1.181

Ecotype: coastal

Quantitative Ion m/z: 373

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>8</sub>

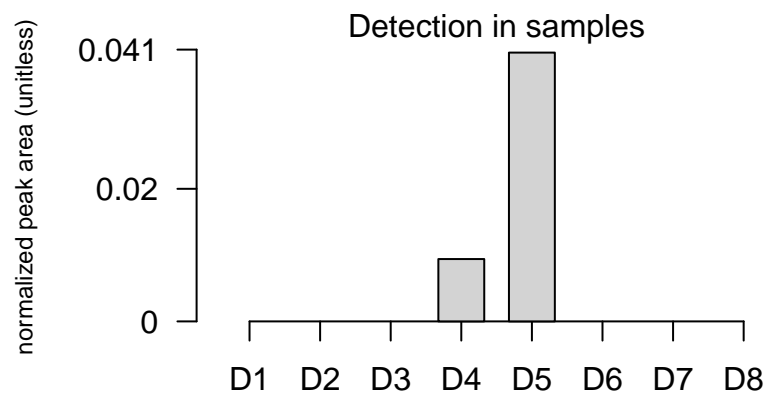
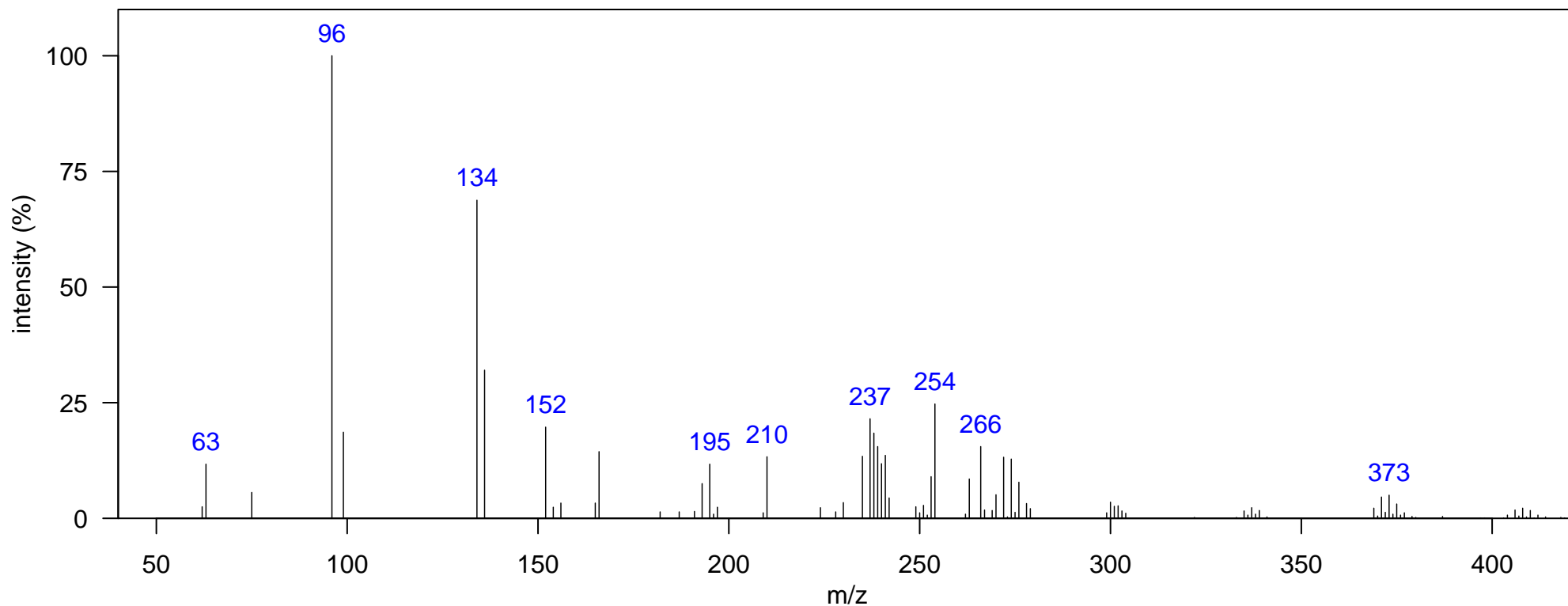
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: chlordane related 5

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
299 [M-Cl <sub>3</sub> ] <sup>+</sup>
335 [M-HCl <sub>2</sub> ] <sup>+</sup>
371 [M-Cl] <sup>+</sup>
406 M <sup>+</sup>

Name: chlordane related 9

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1296.1, 1.208

Ecotype: coastal

Quantitative Ion m/z: 238

Instrument: GCxGC-TOF, EI, 70 eV

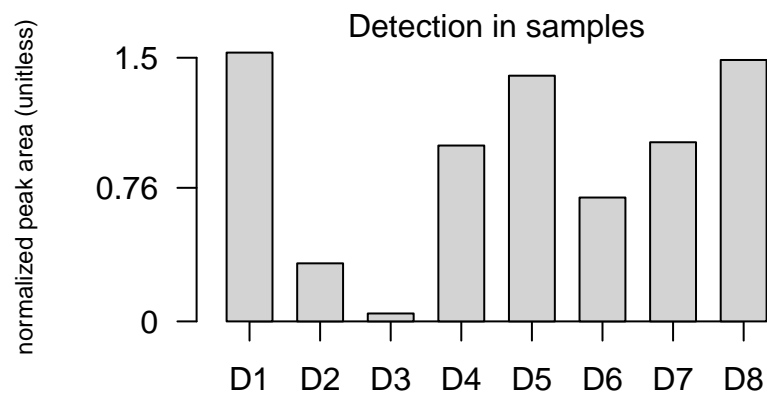
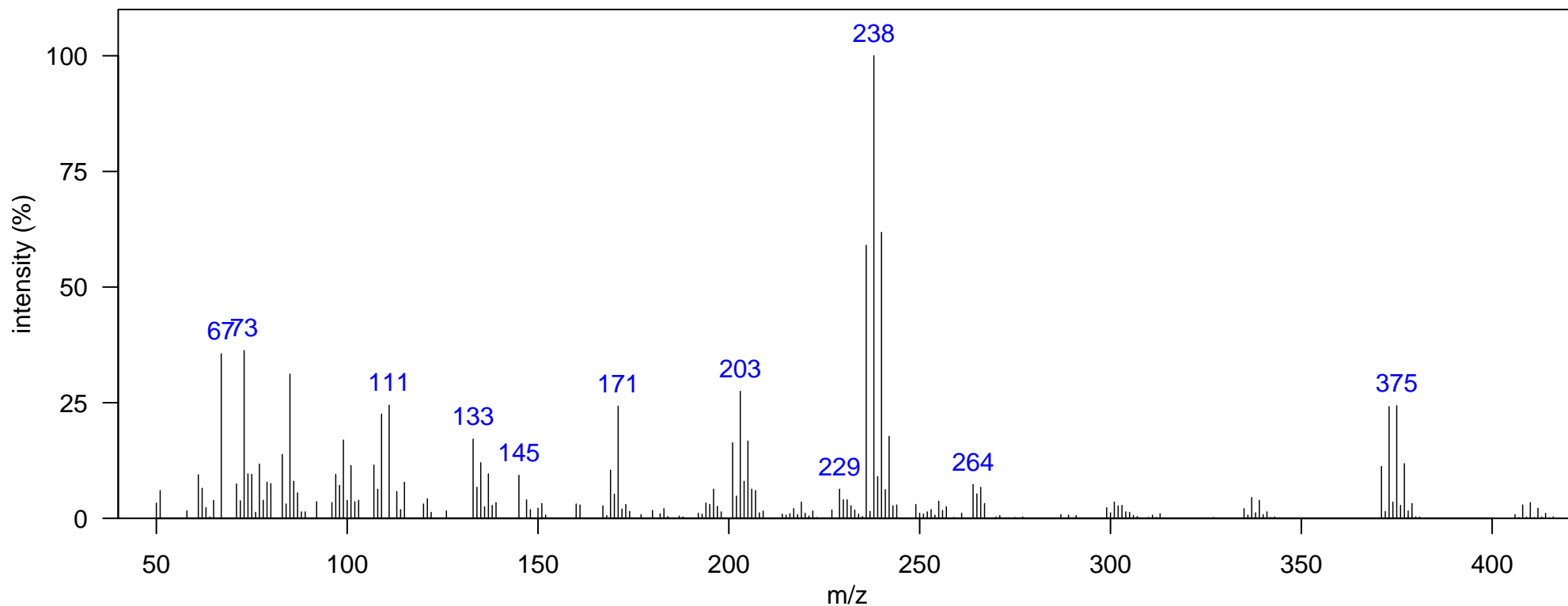
Atlantic Lib: chlordane related 6

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
236 [C5HCl5]+
264 [M-H2Cl3]+
335 [M-HCl2]+
371 [M-Cl]+
406 M+

Name: oxychlordan

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1310.09, 1.241

Ecotype: coastal

Quantitative Ion m/z: 389

Instrument: GCxGC-TOF, EI, 70 eV

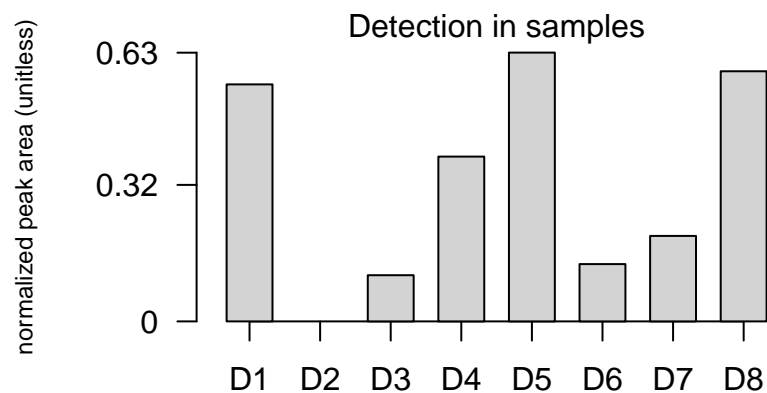
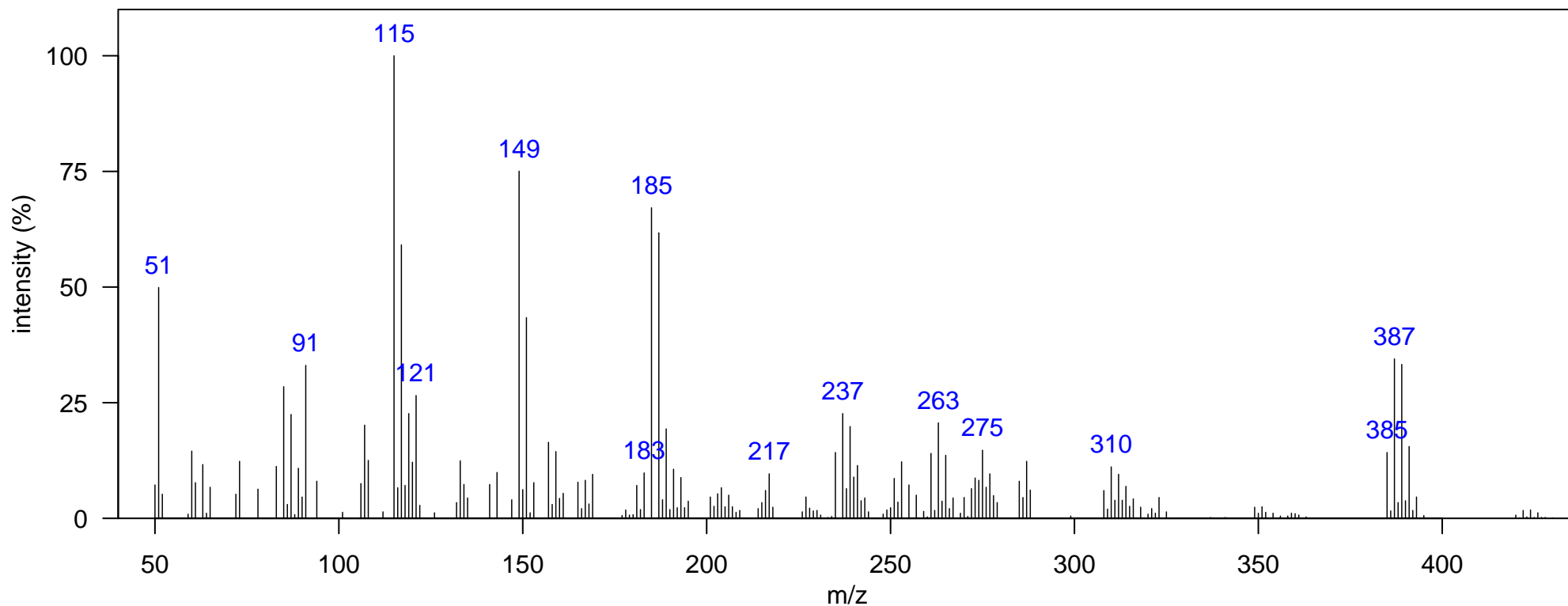
Atlantic Lib: oxychlordan

Elemental Formula: C<sub>10</sub>H<sub>4</sub>Cl<sub>8</sub>O

Source: anthropogenic

Comment:

Identification: Reference Database MS



m/z [Fragment]

235 [C<sub>5</sub>Cl<sub>5</sub>]<sup>+</sup>  
261 [C<sub>7</sub>H<sub>2</sub>Cl<sub>5</sub>]<sup>+</sup>  
349 [M-HCl<sub>2</sub>]<sup>+</sup>  
385 [M-Cl]<sup>+</sup>  
420 M<sup>+</sup>

Name: chlordane related 10

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1324.09, 1.241

Ecotype: coastal

Quantitative Ion m/z: 238

Instrument: GCxGC-TOF, EI, 70 eV

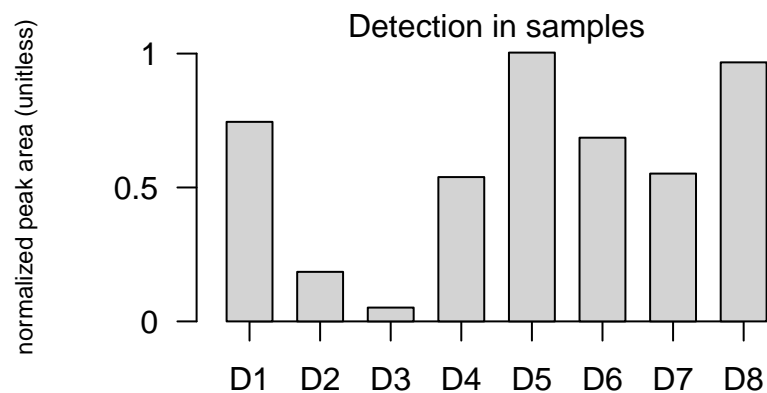
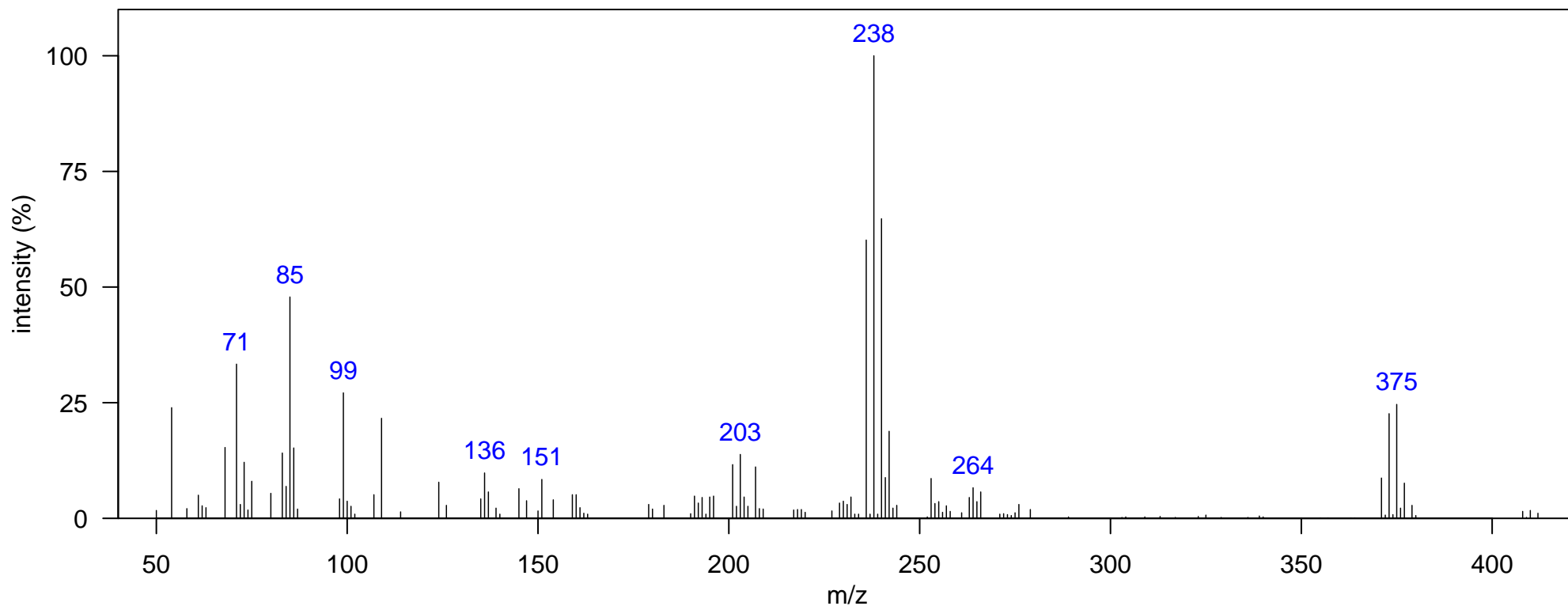
Atlantic Lib: chlordane related 8

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Comment: m/z 373 ion cluster in peak apex, but poor spectra in peak true

Identification: Manual-Congener Group



m/z [Fragment]
236 [C <sub>5</sub> HCl <sub>5</sub> ] <sup>+</sup>
371 [M-Cl]
406 M <sup>+</sup>

Name: gamma chlordanes

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1338.08, 1.34

Ecotype: coastal

Quantitative Ion m/z: 375

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>8</sub>

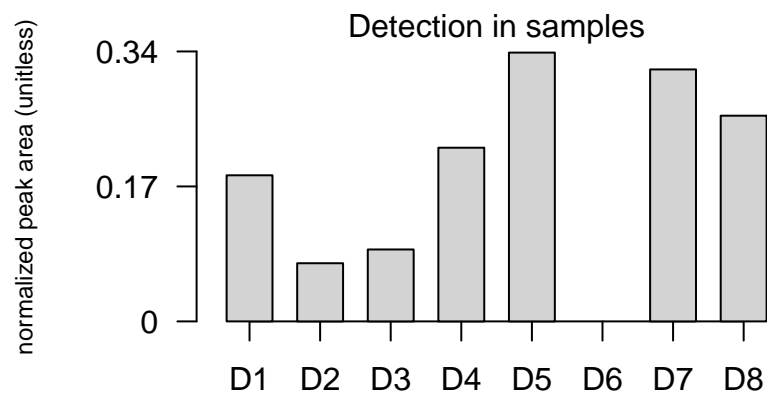
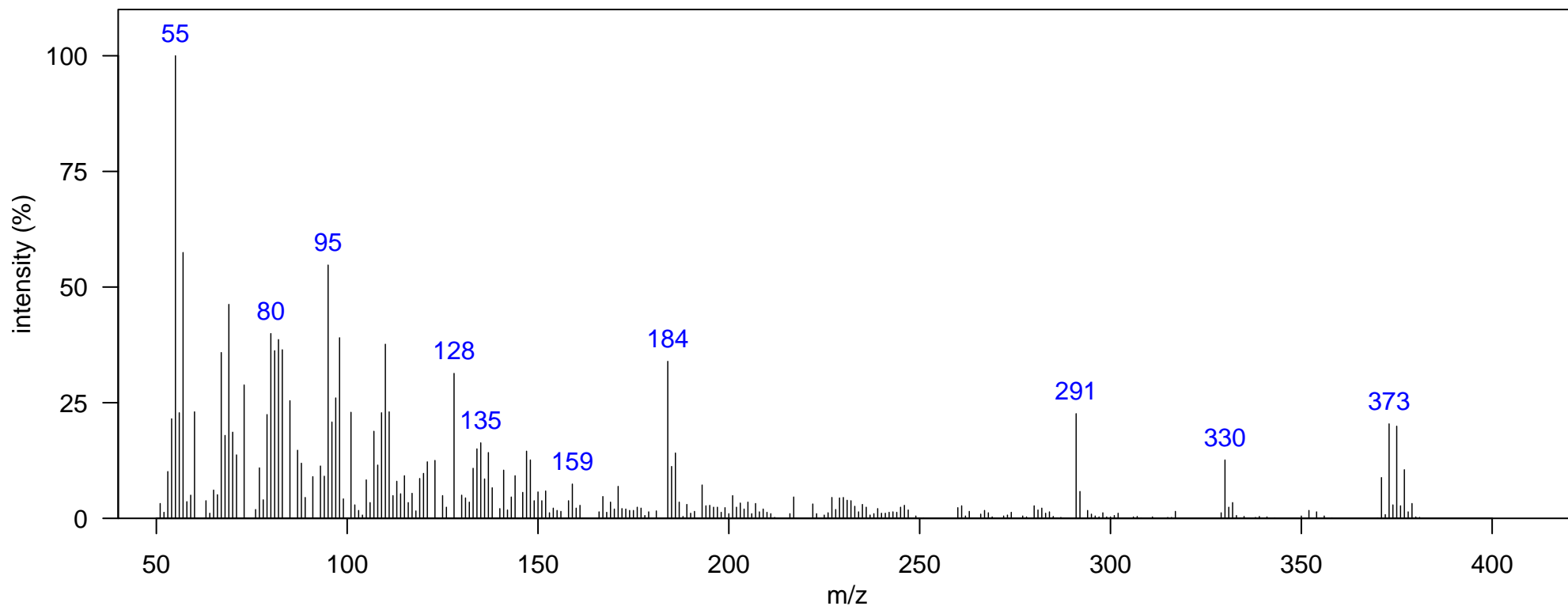
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: gamma-chlordane

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]
371 [M-Cl] <sup>+</sup>



Name: alpha chlordane

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1352.07, 1.3

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

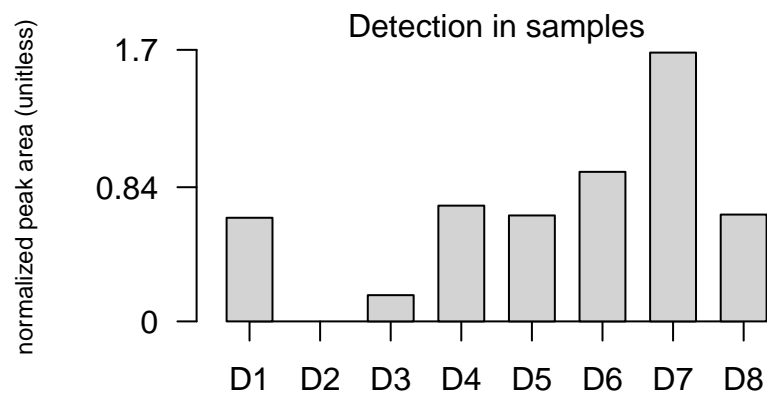
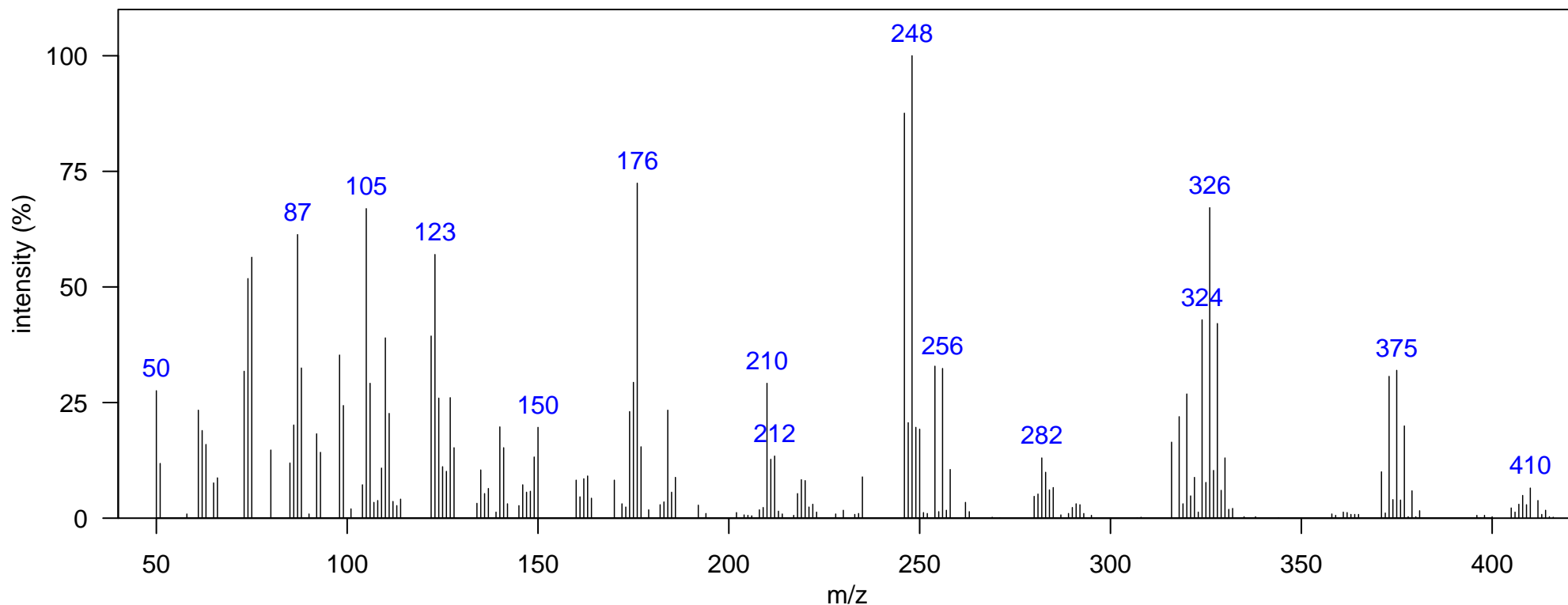
Quantitative Ion m/z: 375

Atlantic Lib: alpha-chlordane

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Identification: Authentic MS RT



m/z [Fragment]

176 DDE Interference  
248 DDT Interference  
324 PCB Interference  
371 [M-Cl]<sup>+</sup>  
408 M<sup>+</sup>

Name: chlordane related 11

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1394.05, 1.373

Ecotype: coastal

Quantitative Ion m/z: 373

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>8</sub>

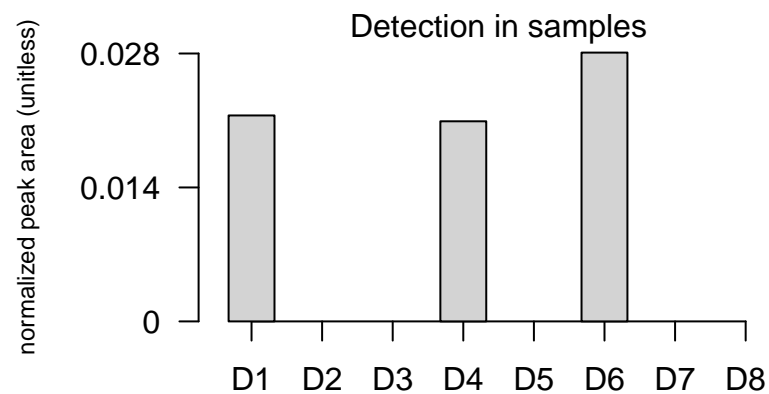
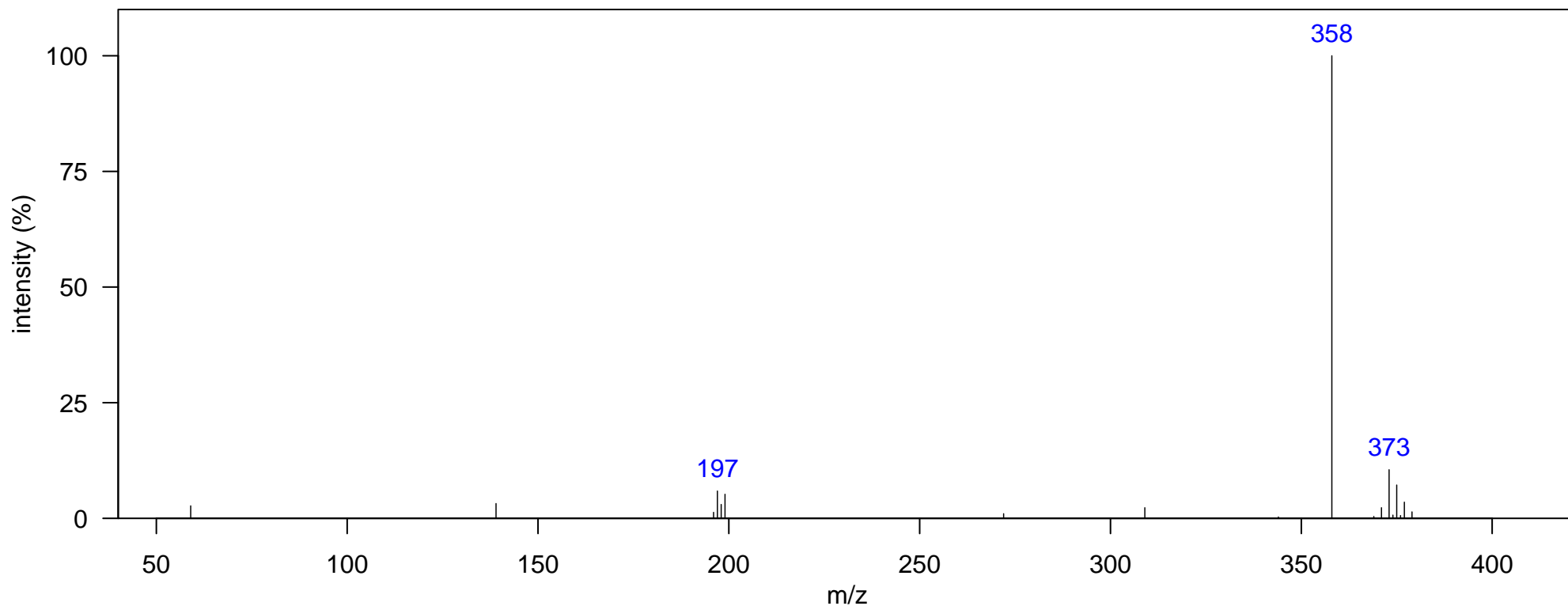
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: chlordane related 11

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
373 [M-Cl] <sup>+</sup>

Name: chlordane related 12

Class: Chlordane-related

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1422.03, 1.432

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

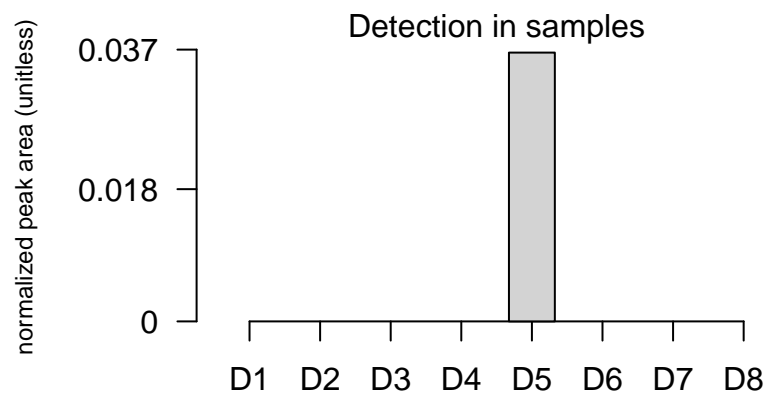
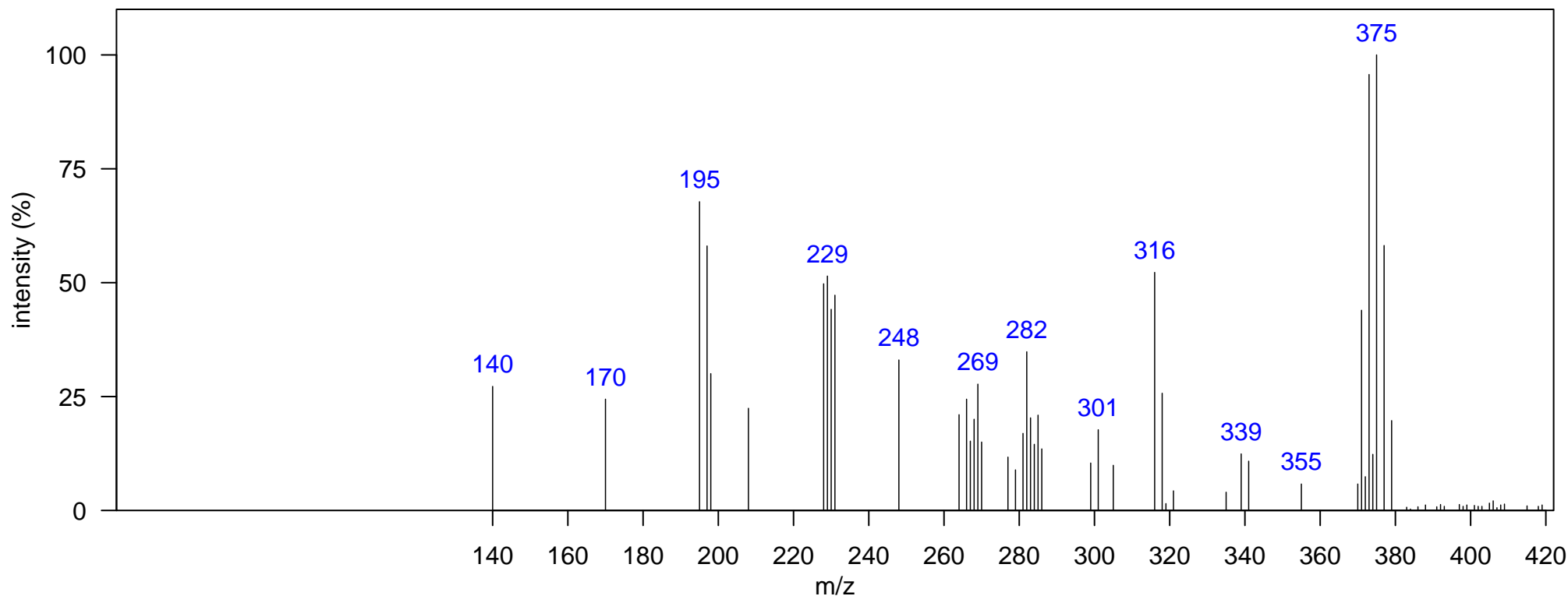
Quantitative Ion m/z: 373

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
373 [M-Cl] <sup>+</sup>

Name: chlordane related 13

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1446.52, 1.465

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

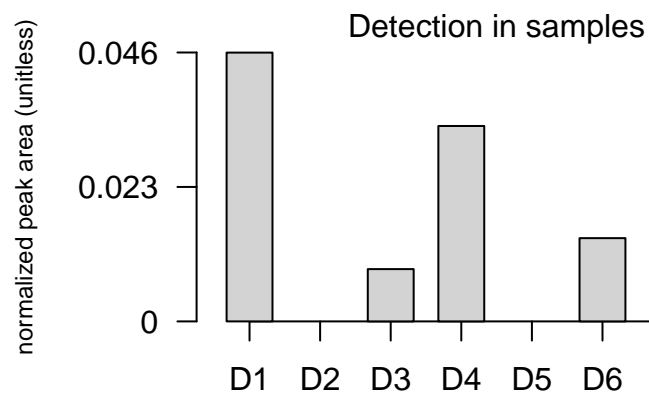
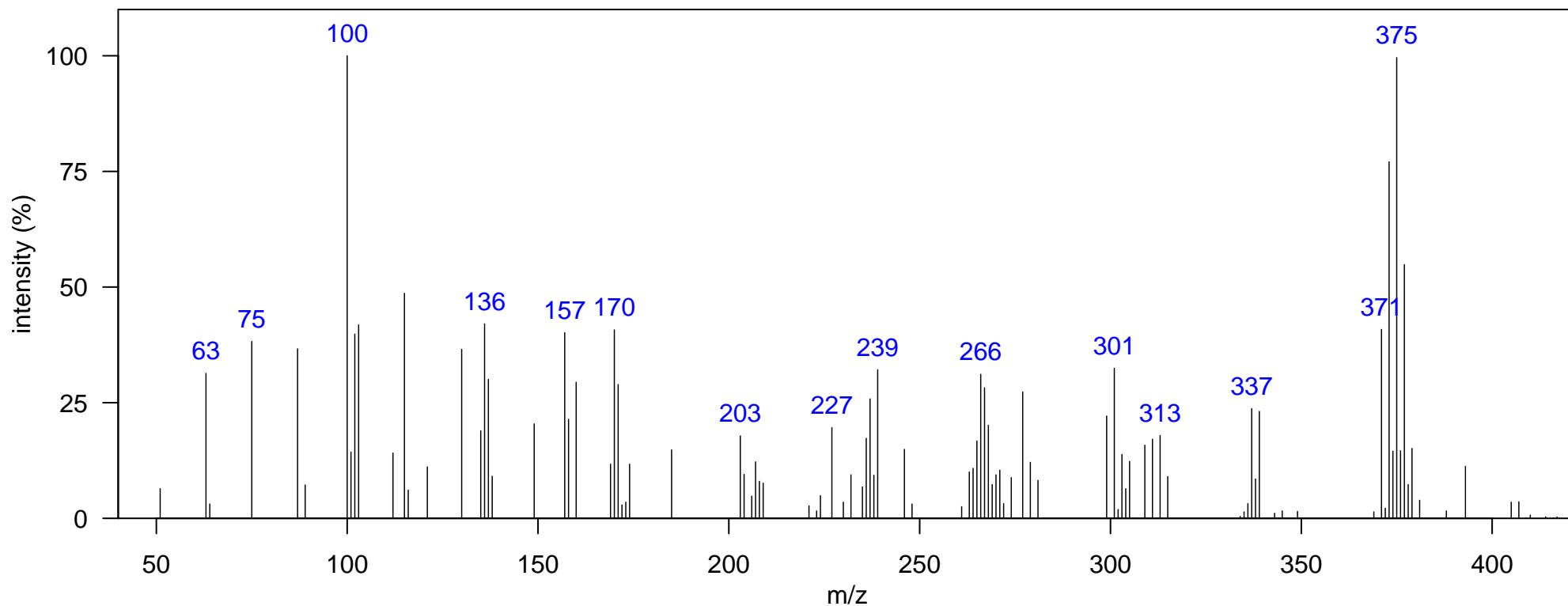
Quantitative Ion m/z: 375

Atlantic Lib: chlordane related 13

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]

299 [M-H<sub>2</sub>Cl<sub>3</sub>]<sup>+</sup>

335 [M-HCl<sub>2</sub>]<sup>+</sup>

371 [M-Cl]<sup>+</sup>

Name: chlordane related 14

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1408.04, 1.274

Ecotype: coastal

Quantitative Ion m/z: 443

Instrument: GCxGC-TOF, EI, 70 eV

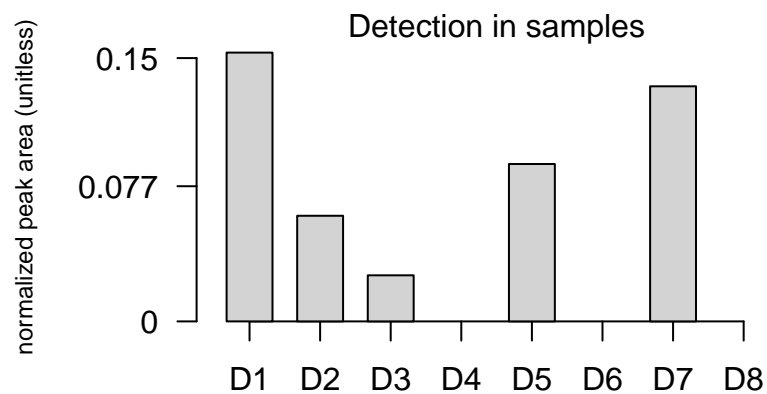
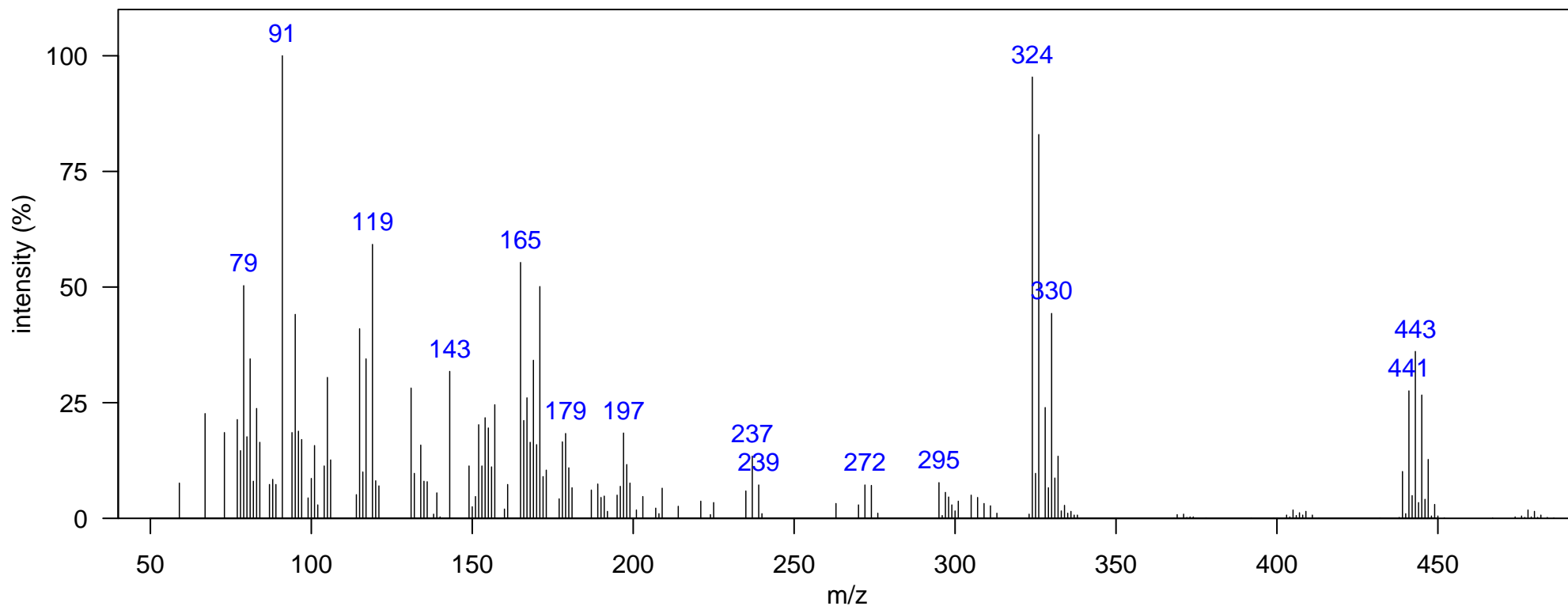
Atlantic Lib: chlordane related 12

Elemental Formula: C<sub>10</sub>H<sub>4</sub>Cl<sub>10</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



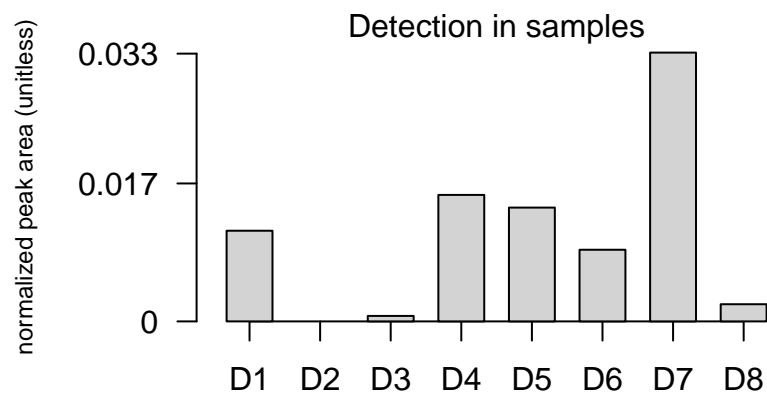
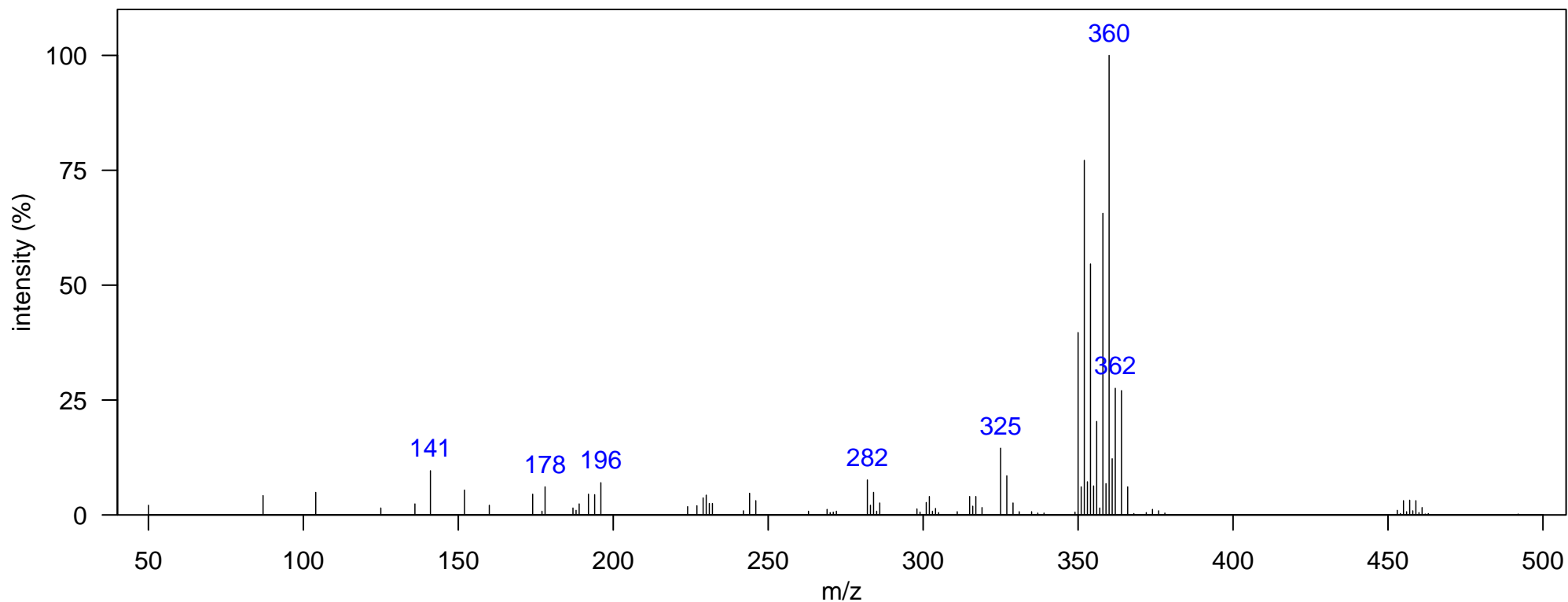
m/z [Fragment]
235 [C5Cl5]+
324 Interference
330 Interference
403 [M-HCl2]+
439 [M-Cl]+
474 M+

Name: chlordane related 15

Class: Chlordane-related

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1457.01, 1.313  
Ecotype: coastal Quantitative Ion m/z: 457  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib: chlordane related 14  
Comment: Ref: ES&T. 1991, 25, 245-254

Elemental Formula: C<sub>11</sub>H<sub>6</sub>Cl<sub>10</sub>  
Source: anthropogenic  
Identification: Literature MS



m/z [Fragment]
360 PCB Interference
453 [M-Cl]

Name: trans nonachlor

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1355.57, 1.274

Ecotype: coastal

Quantitative Ion m/z: 409

Elemental Formula: C<sub>10</sub>H<sub>5</sub>Cl<sub>9</sub>

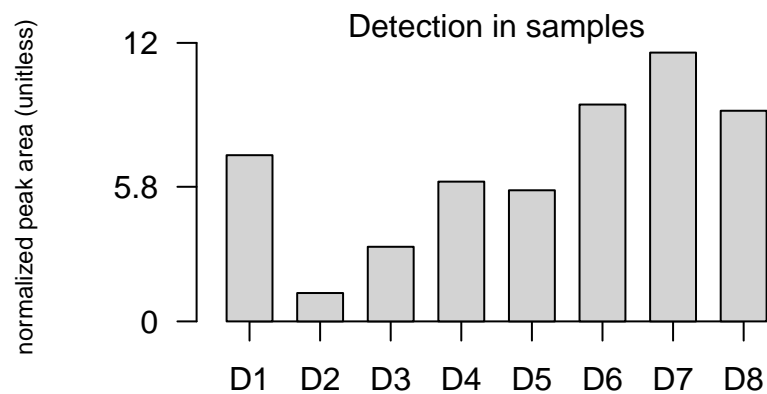
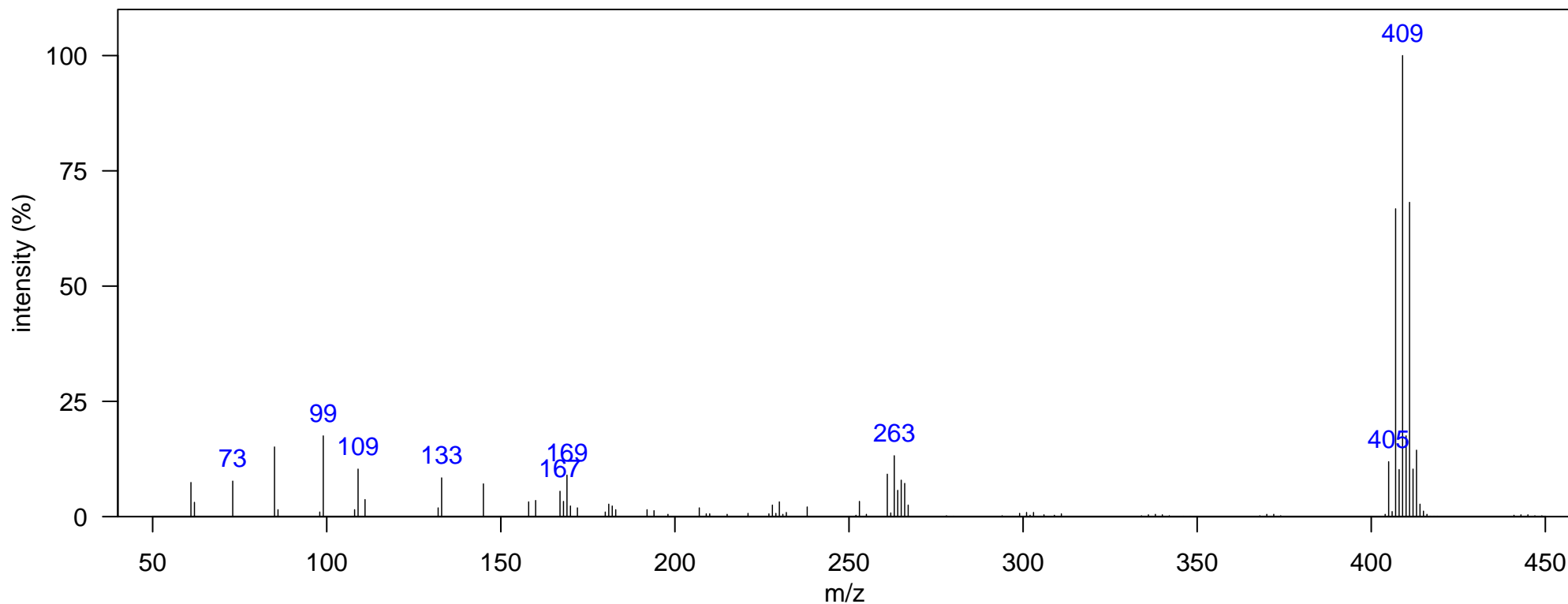
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: trans-nonachlor

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]

261 [M-H<sub>4</sub>Cl<sub>5</sub>]<sup>+</sup>

409 [M-Cl]<sup>+</sup>

Name: cis nonachlor

Class: Chlordane-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1425.53, 1.36

Ecotype: coastal

Quantitative Ion m/z: 409

Elemental Formula: C<sub>10</sub>H<sub>5</sub>Cl<sub>9</sub>

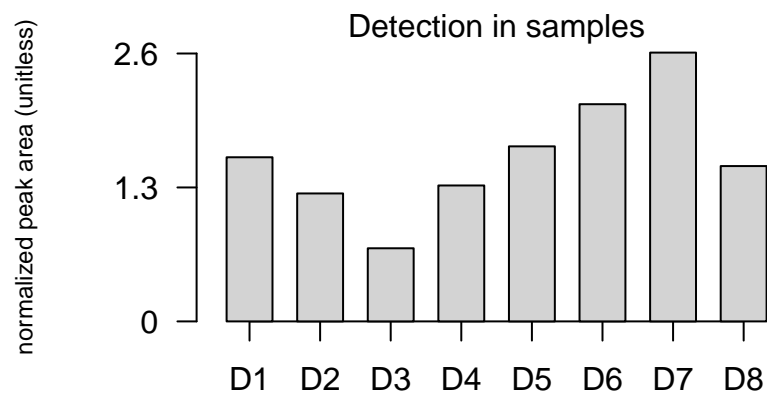
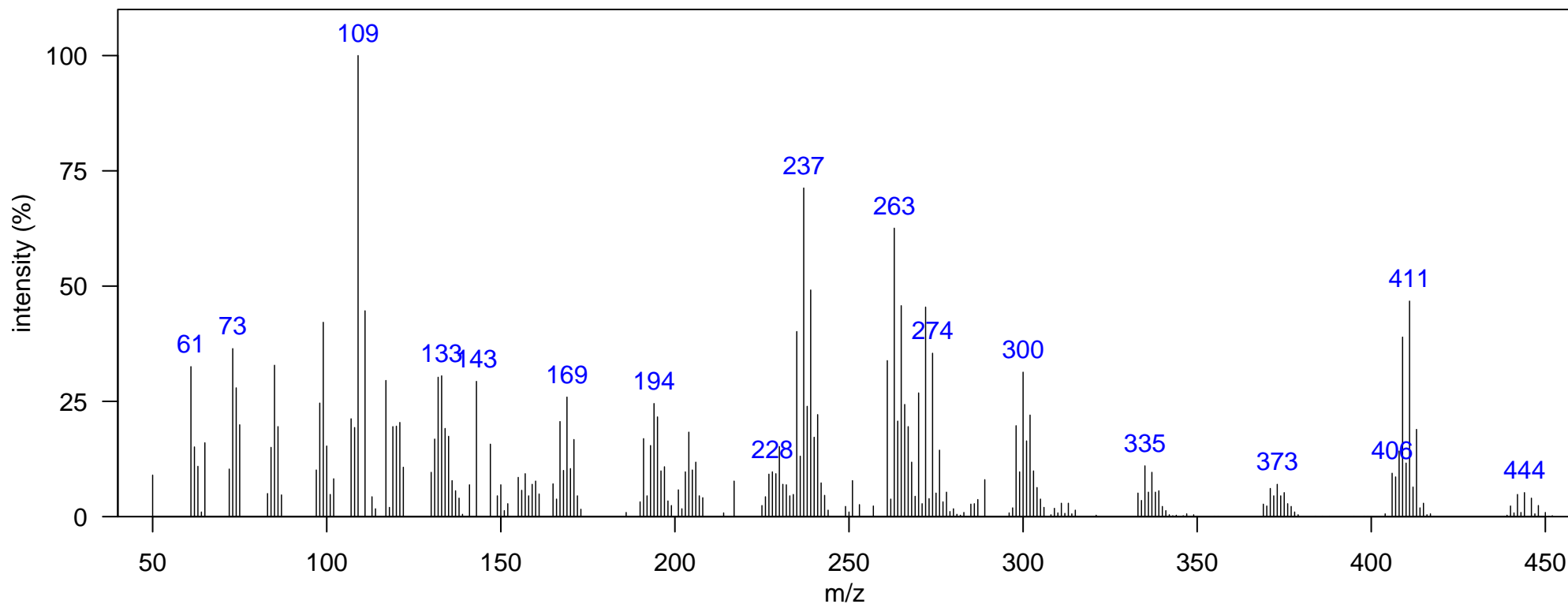
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: cis-nonachlor

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]

270 [C<sub>5</sub>Cl<sub>5</sub>]<sup>+</sup>

369 [M-HCl<sub>2</sub>]<sup>+</sup>

405 [M-Cl]<sup>+</sup>

440 [M]<sup>+</sup>



Class: Heptachlor-related

Elemental Formula: C<sub>10</sub>H<sub>4</sub>Cl<sub>8</sub>

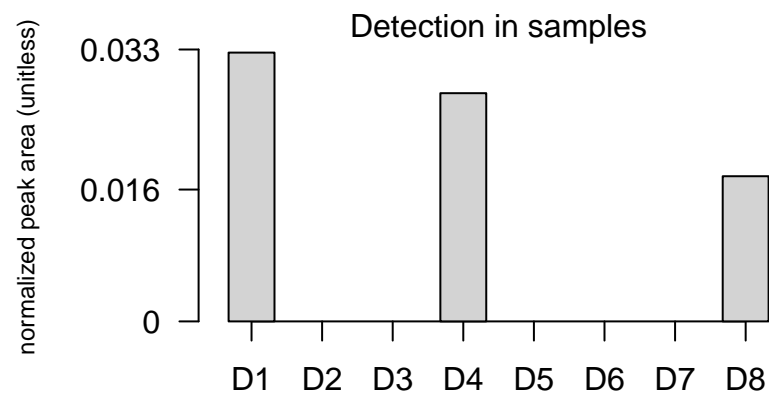
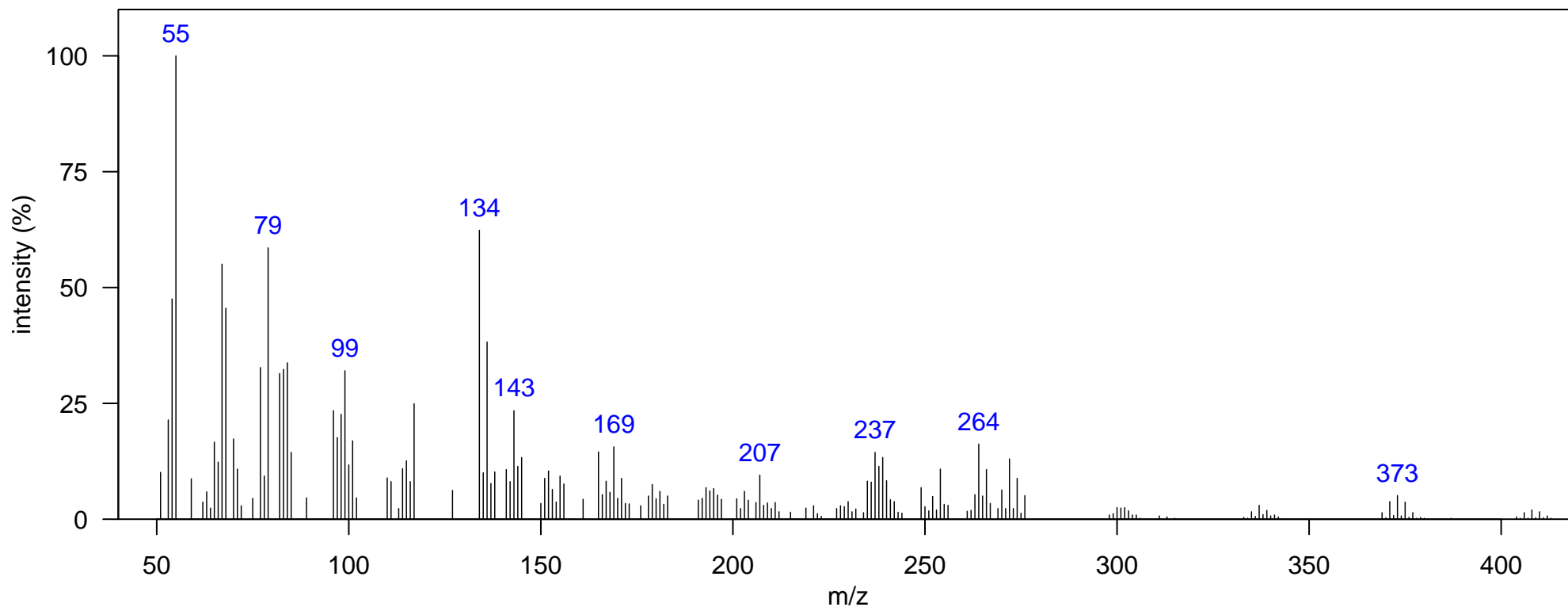
Quantitative Ion m/z: 373

Source: anthropogenic

Atlantic Lib:

Identification: Manual

Comment:



m/z [Fragment]

# Name: heptachlor related 2

Class: Heptachlor-related

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1285.61, 1.3

Elemental Formula: C<sub>10</sub>H<sub>5</sub>Cl<sub>7</sub>

Ecotype: coastal

Quantitative Ion m/z: 337

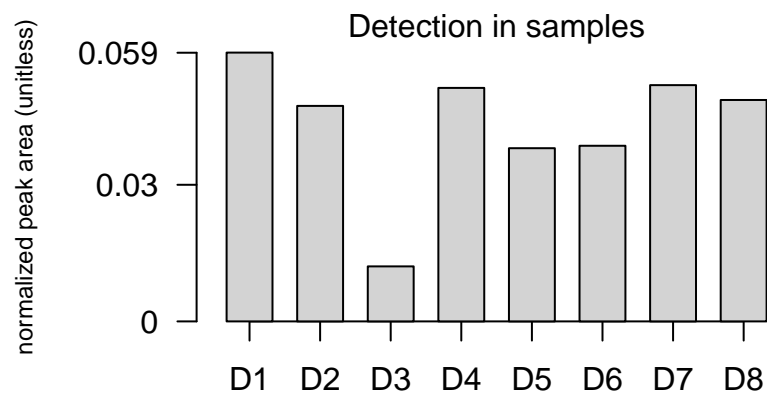
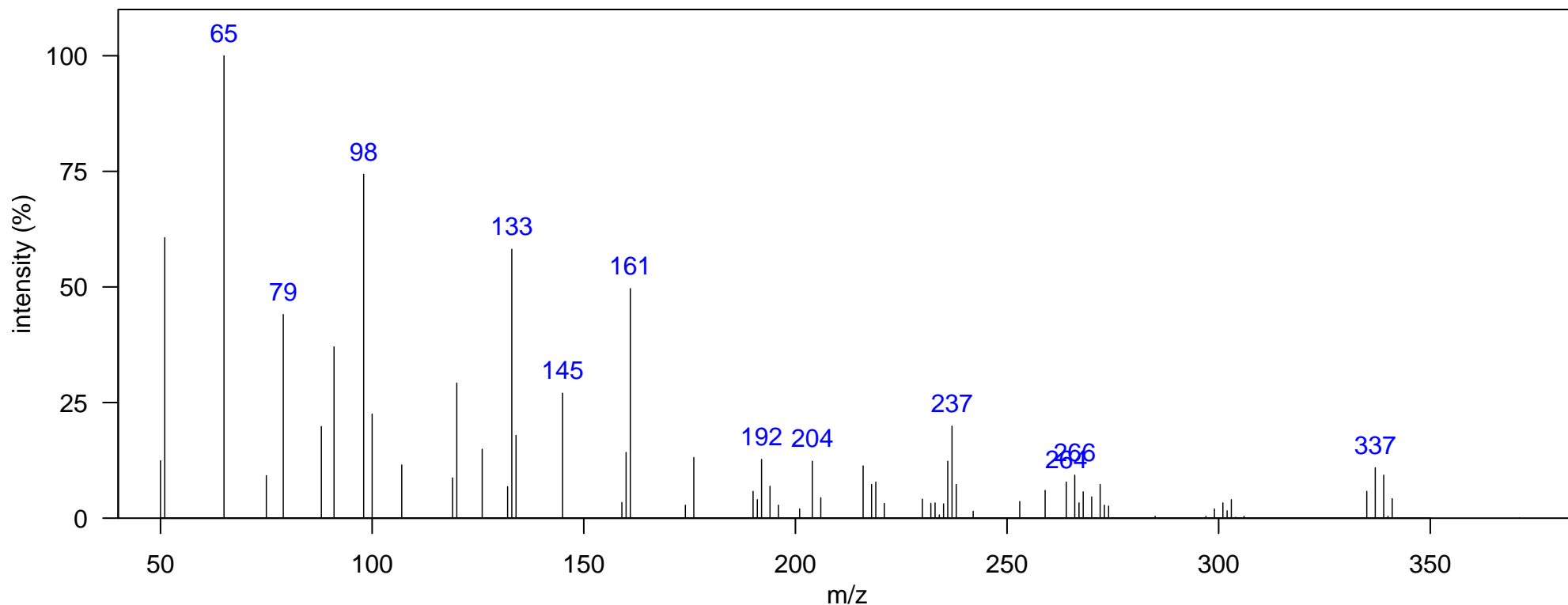
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: heptachlor related 2

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
264 [M-HCl <sub>3</sub> ]
335 [M-Cl] <sup>+</sup>

Name: heptachlor epoxide

Class: Heptachlor-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1306.6, 1.287

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

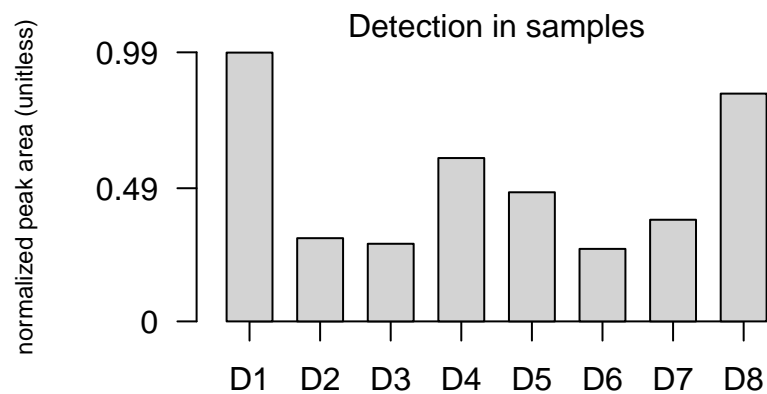
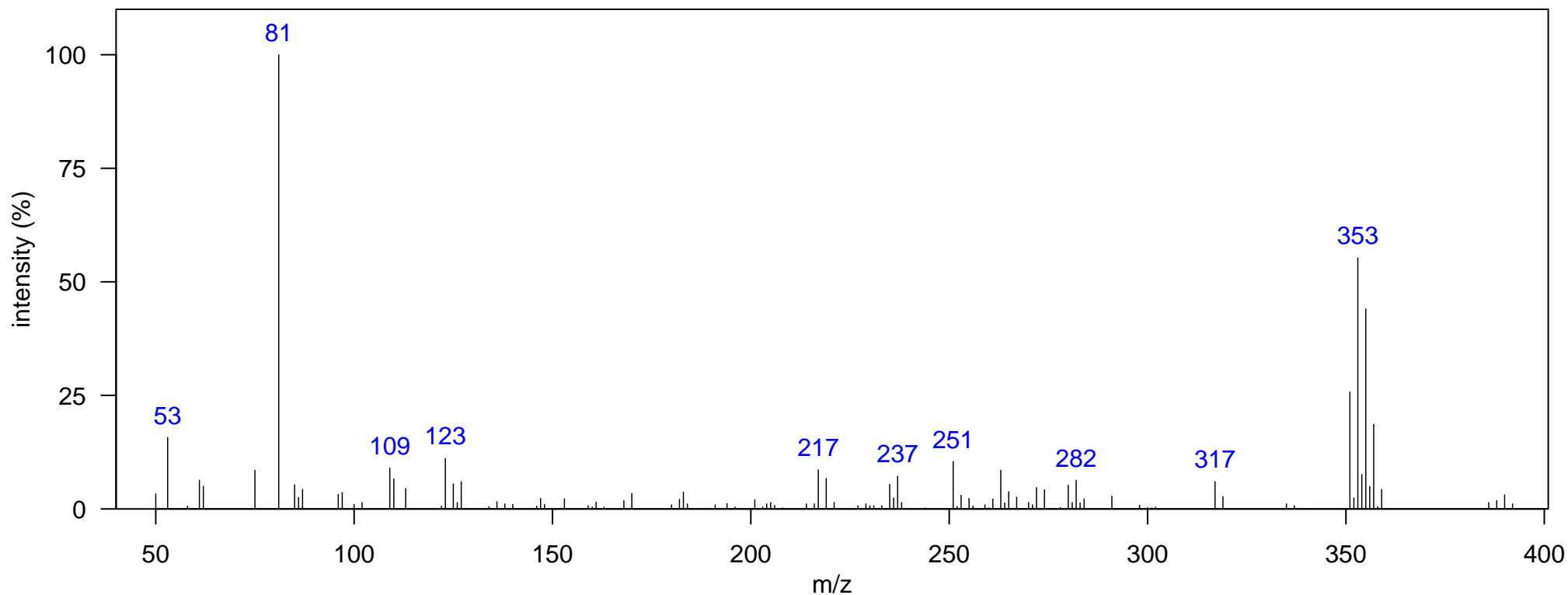
Quantitative Ion m/z: 353

Atlantic Lib: heptachlor epoxide

Elemental Formula: C<sub>10</sub>H<sub>5</sub>Cl<sub>7</sub>O

Source: anthropogenic

Identification: Authentic MS RT



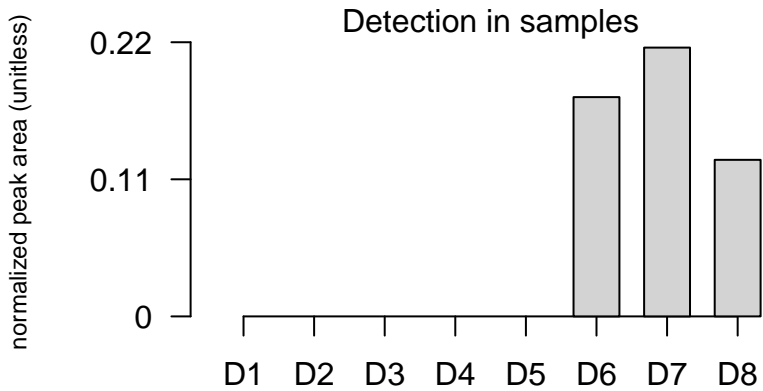
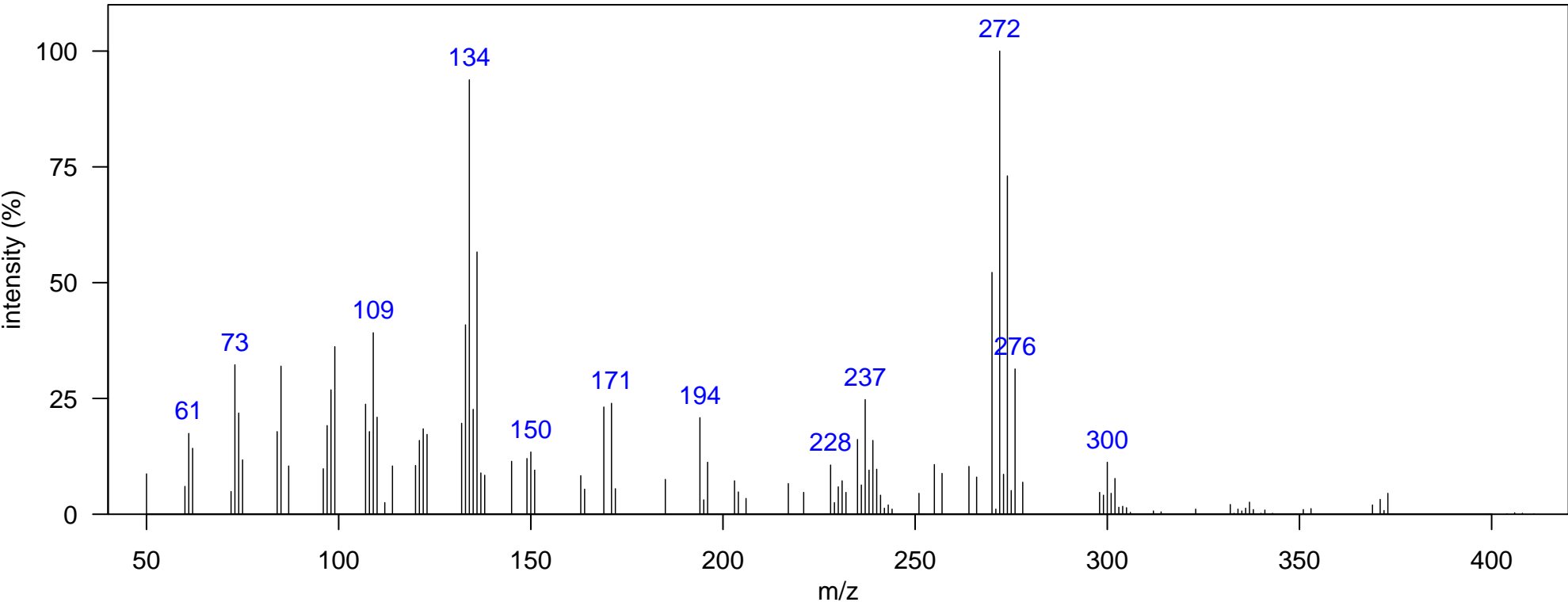
m/z [Fragment]
351 [M-Cl] <sup>+</sup>

Name: heptachlor related 3

Class: Heptachlor-related

Sample: SoCal dolphin blubber D6, DSJ2155 1D RT, 2D RT (s): 1338.08, 1.327  
Ecotype: offshore Quantitative Ion m/z: 272  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib: heptachlor related 3  
Comment:

Elemental Formula: C<sub>10</sub>H<sub>4</sub>Cl<sub>8</sub>  
Source: anthropogenic  
Identification: Manual-Congener Group



m/z [Fragment]
270 [C5Cl6]+

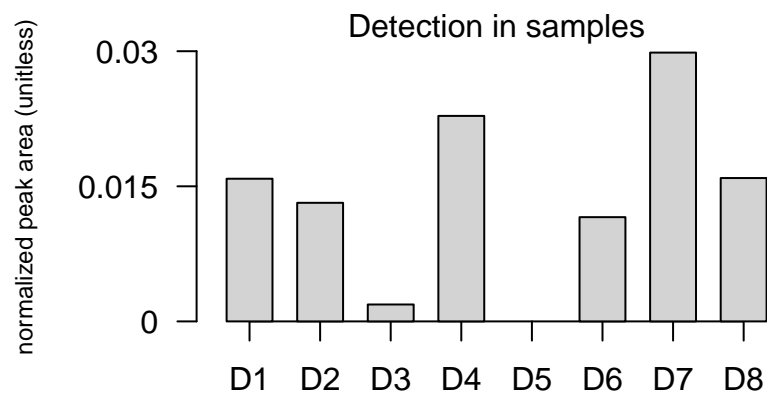
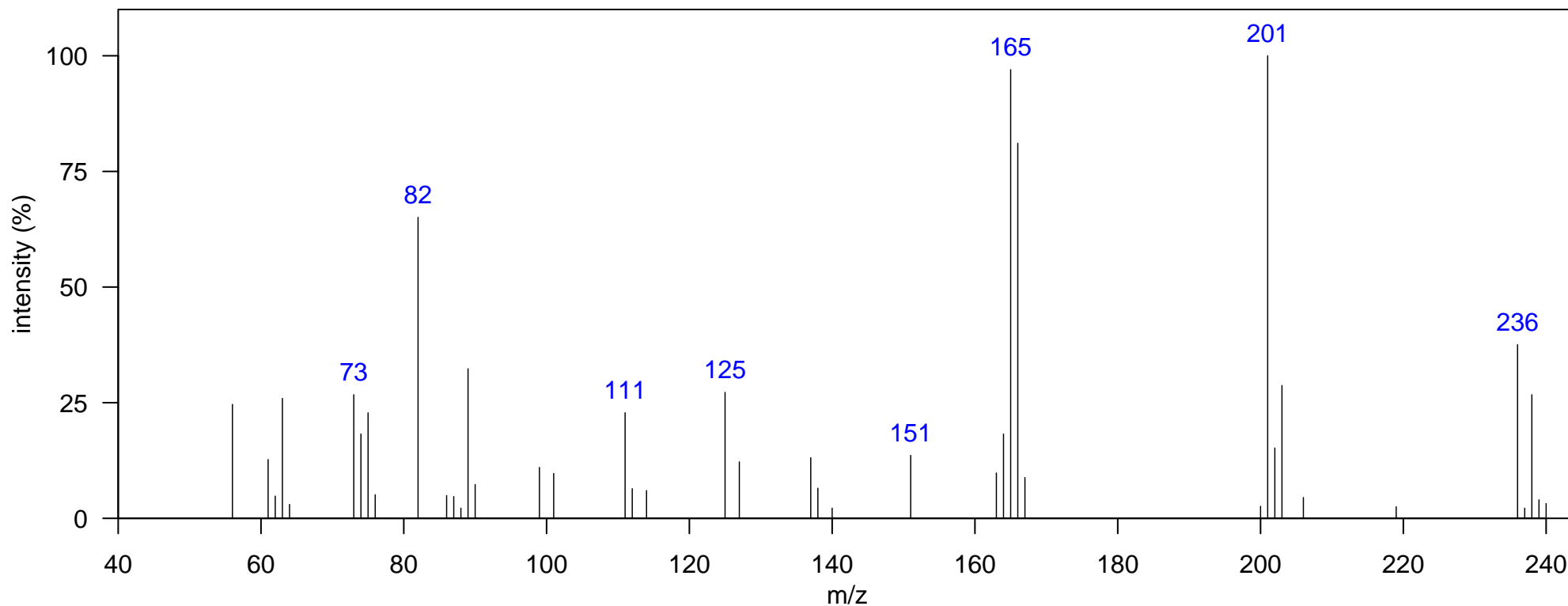
Name: DDT related 1

Class: DDT-related

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1166.68, 1.228  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: bis(p-chlorophenyl)-methane

Quantitative Ion m/z: 236  
Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>10</sub>Cl<sub>2</sub>  
Source: anthropogenic  
Identification: Reference Database MS



m/z [Fragment]
165 [M-HCl <sub>2</sub> ]
236 M+

Name: DDT related 2

Class: DDT-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1187.66, 1.228

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment: bis(p-chlorophenyl)-methane

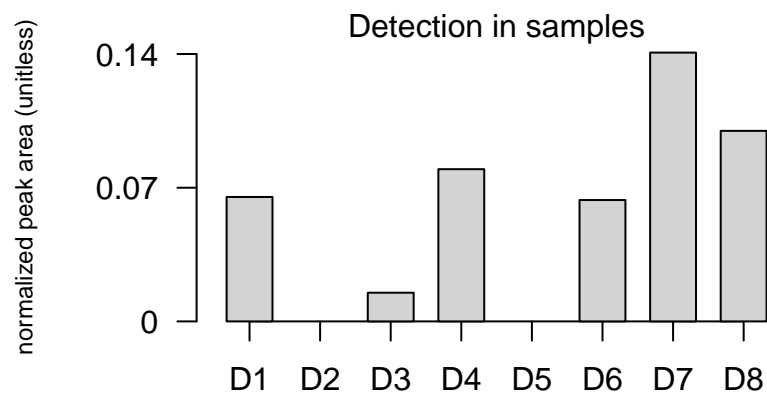
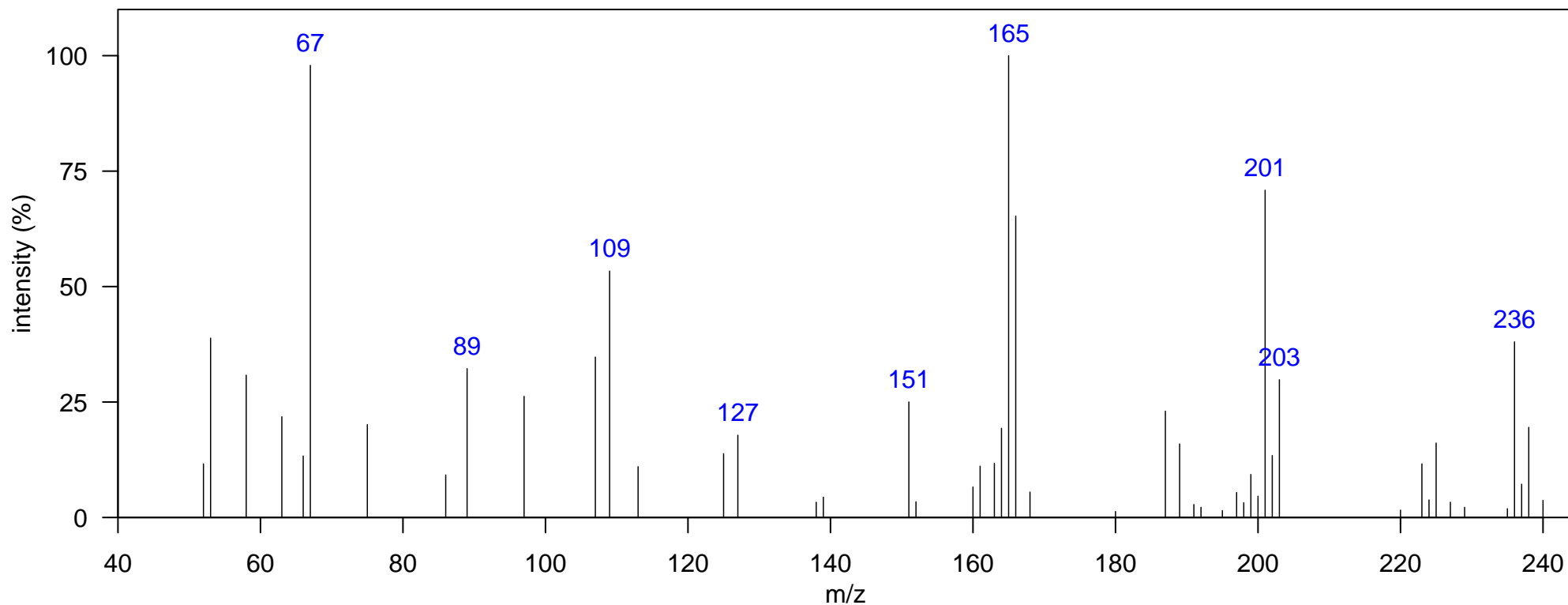
Quantitative Ion m/z: 236

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>10</sub>Cl<sub>2</sub>

Source: anthropogenic

Identification: Reference Database MS



m/z [Fragment]
165 [M-HCl <sub>2</sub> ]
236 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1219.15, 1.214

Ecotype: coastal

Quantitative Ion m/z: 235

Instrument: GCxGC-TOF, EI, 70 eV

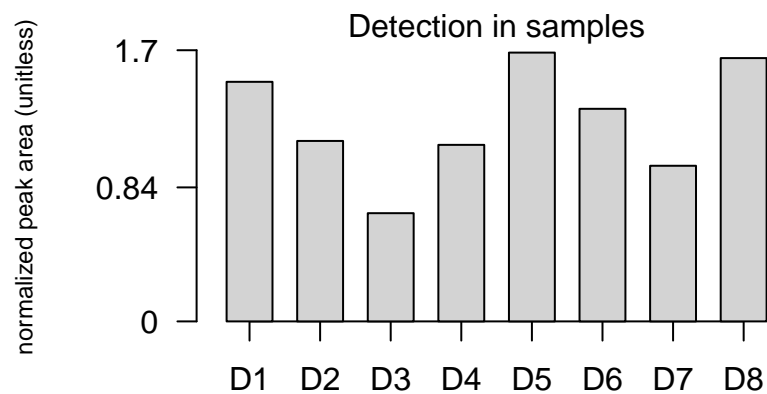
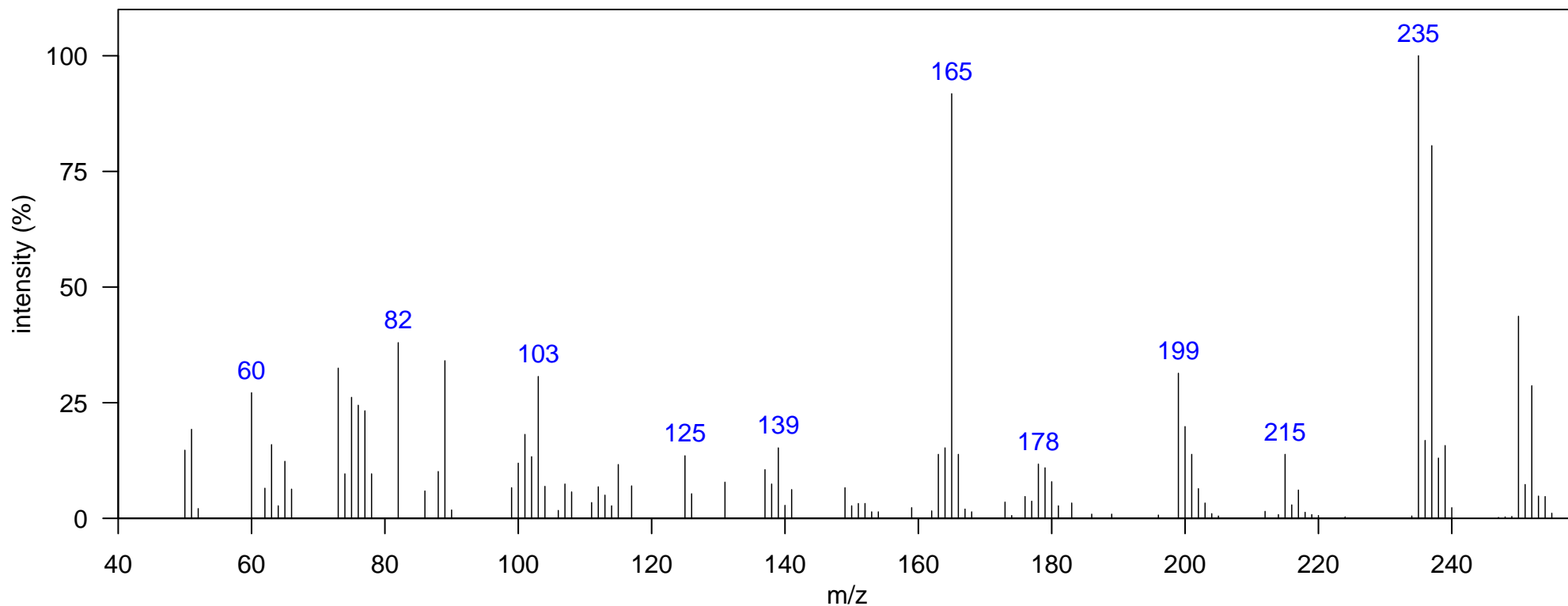
Atlantic Lib: DDEt

Elemental Formula: C<sub>14</sub>H<sub>12</sub>Cl<sub>2</sub>

Source: anthropogenic

Comment: 1,1'-bis(chlorophenyl)-ethane (DDEt)

Identification: Reference Database MS



m/z [Fragment]
165 [M-CH <sub>3</sub> -Cl <sub>2</sub> ] <sup>+</sup>
235 [M-CH <sub>3</sub> ] <sup>+</sup>
250 M <sup>+</sup>

Name: DDT related 4

Class: DDT-related

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1222.64, 1.181

Ecotype: coastal

Quantitative Ion m/z: 248

Instrument: GCxGC-TOF, EI, 70 eV

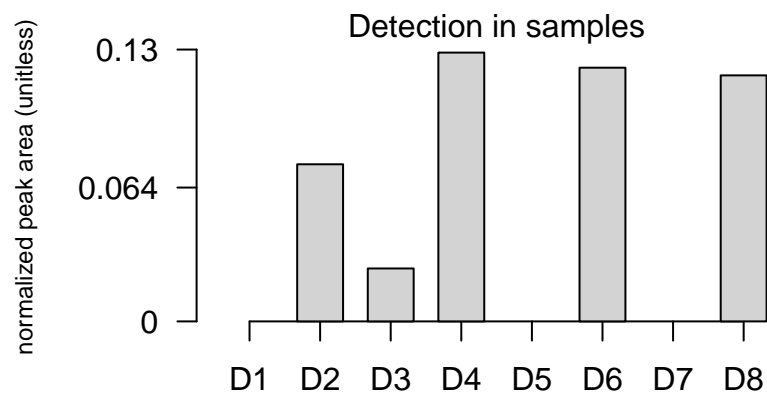
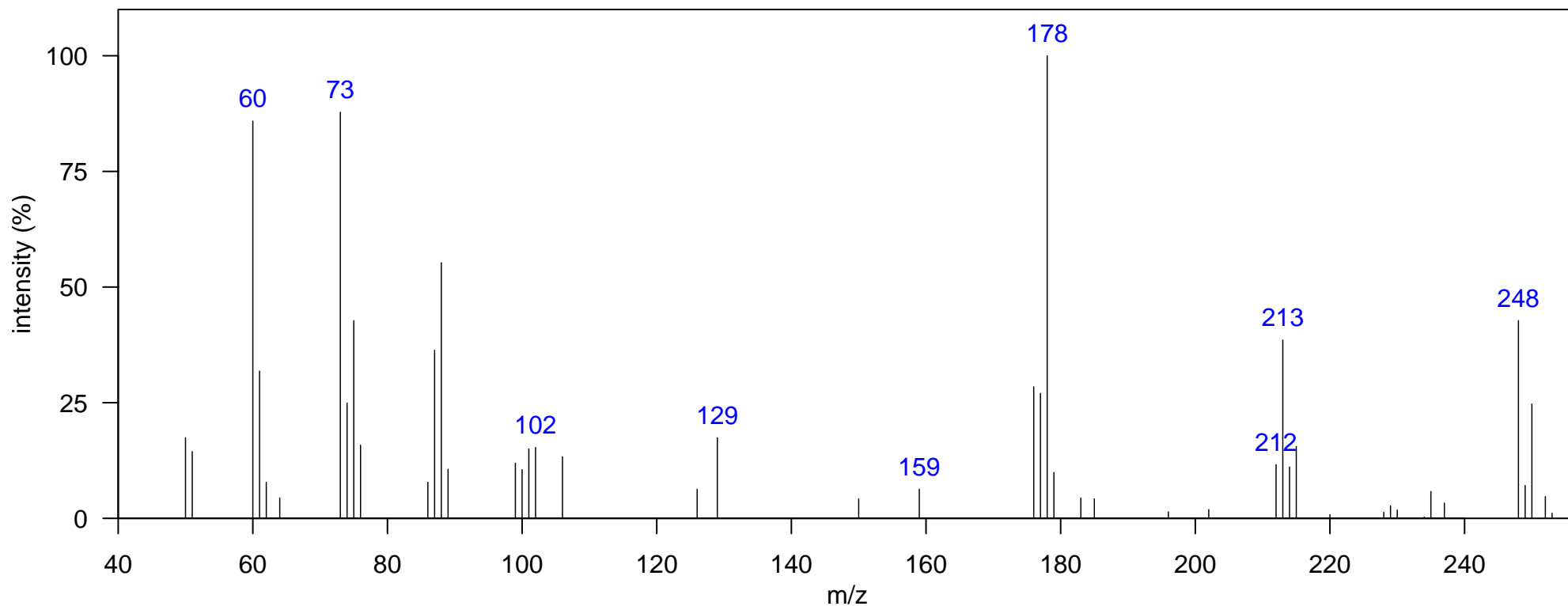
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>

Source: anthropogenic

Comment: 1,1'-ethenylidenebis(4-chloro-benzene) (DDNU)

Identification: Reference Database MS



m/z [Fragment]
178 [M-Cl <sub>2</sub> ] <sup>+</sup>
213 [M-Cl] <sup>+</sup>
248 M <sup>+</sup>



Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1362.56, 1.01

Ecotype: offshore

Quantitative Ion m/z: 248

Instrument: GCxGC-TOF, EI, 70 eV

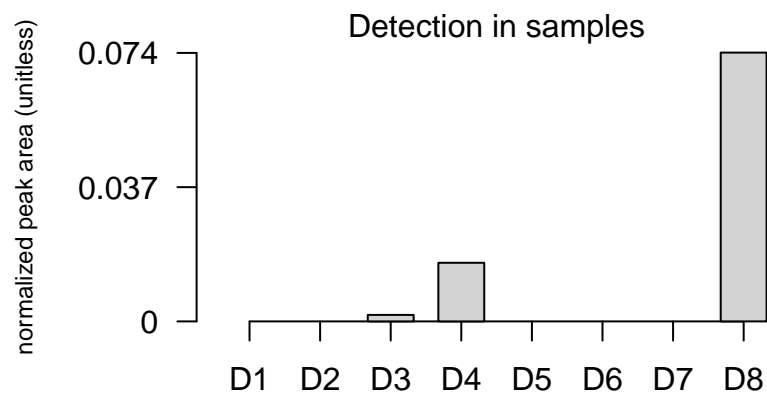
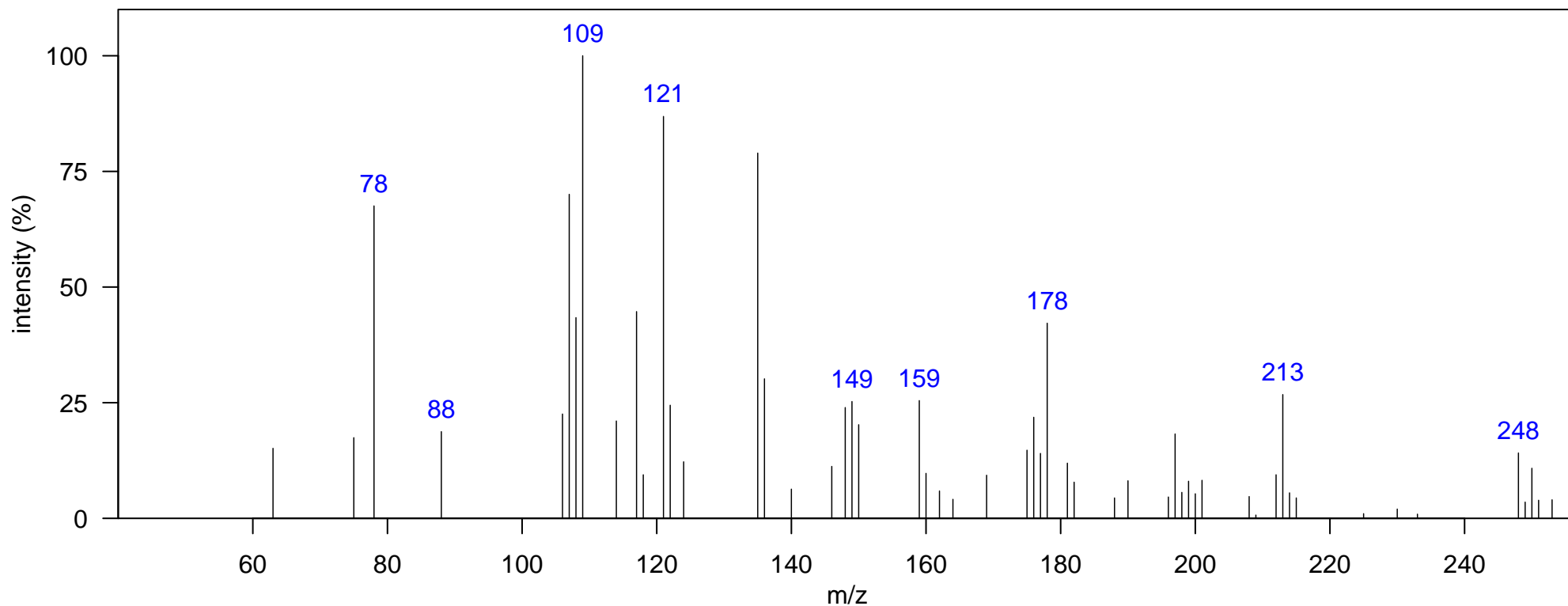
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>

Source: anthropogenic

Comment: 1,1'-ethenylidenebis(4-chloro-benzene) (DDNU)

Identification: Reference Database MS



## m/z [Fragment]

178 [M-Cl<sub>2</sub>]<sup>+</sup>213 [M-Cl]<sup>+</sup>248 M<sup>+</sup>

Name: DDT related 6

Class: DDT-related

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1369.56, 1.003

Ecotype: offshore

Quantitative Ion m/z: 178

Instrument: GCxGC-TOF, EI, 70 eV

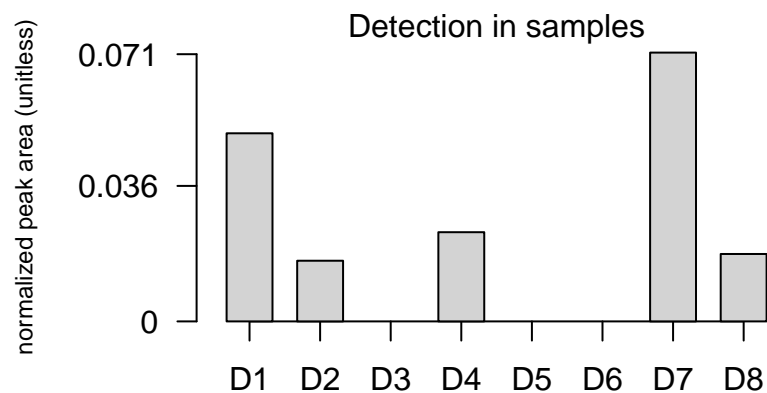
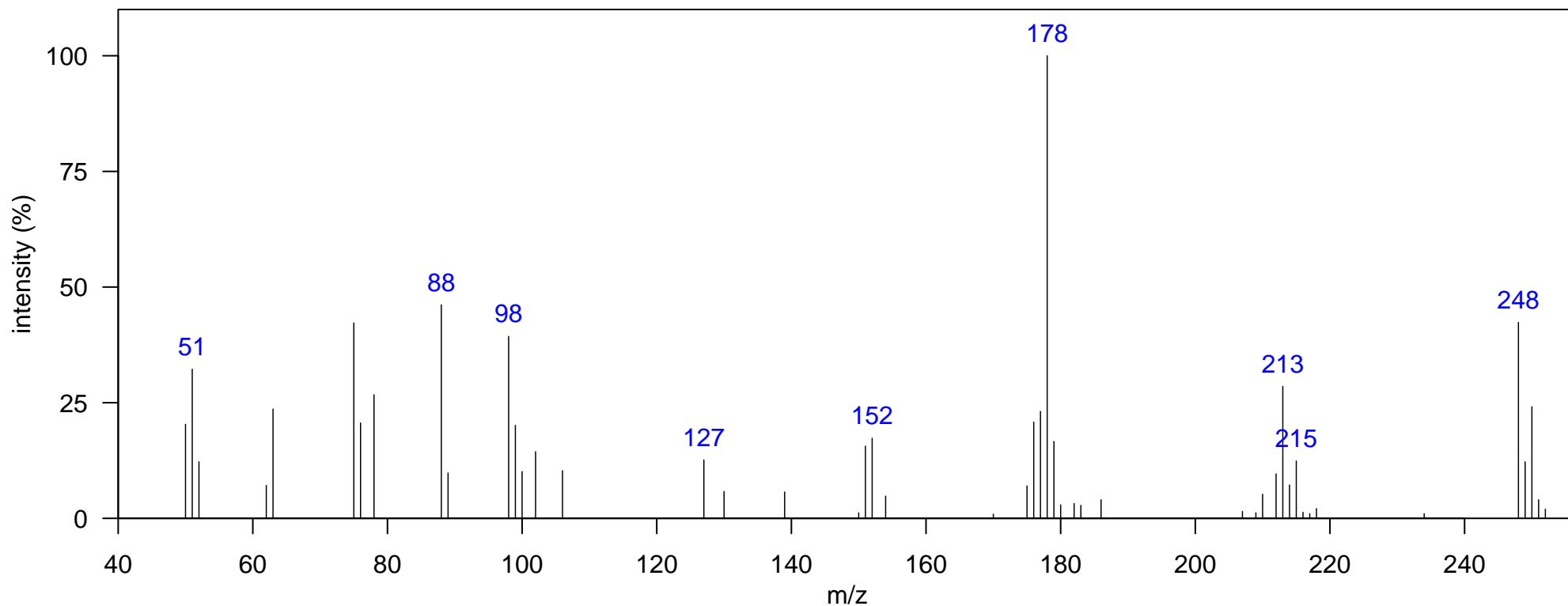
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>

Source: anthropogenic

Comment: 1,1'-ethenylidenebis(4-chloro-benzene) (DDNU)

Identification: Reference Database MS



m/z [Fragment]
178 [M-Cl <sub>2</sub> ] <sup>+</sup>
213 [M-Cl] <sup>+</sup>
248 M <sup>+</sup>

Name: DDT related 7

Class: DDT-related

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1415.03, 0.964

Ecotype: offshore

Quantitative Ion m/z: 213

Instrument: GCxGC-TOF, EI, 70 eV

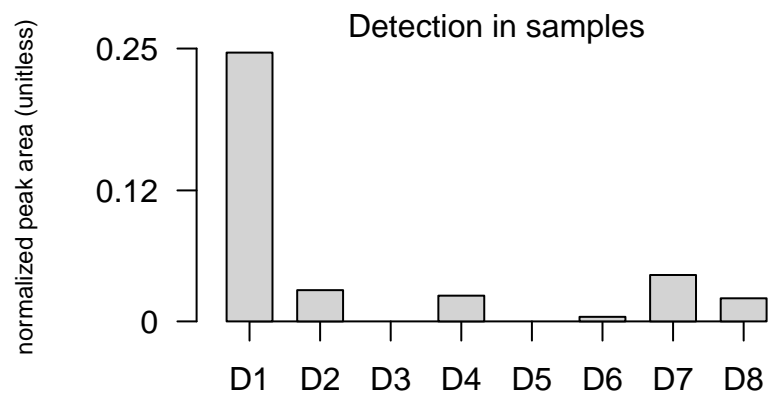
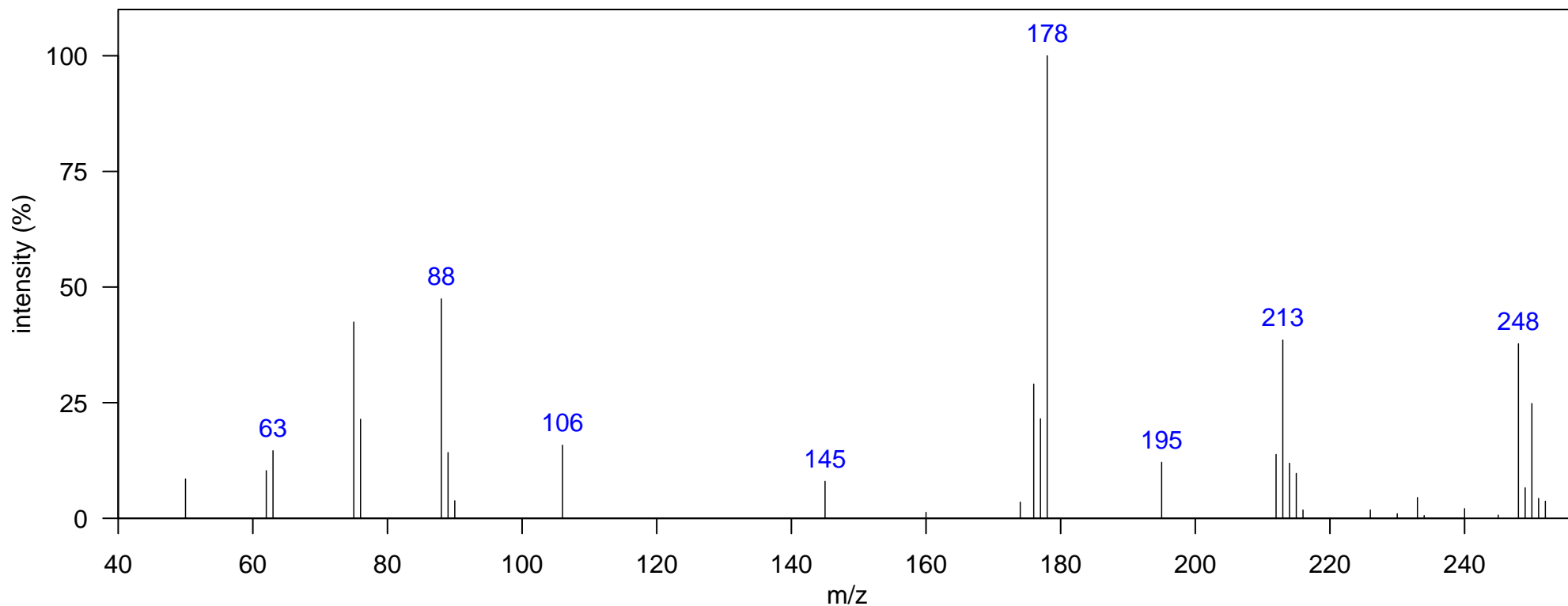
Atlantic Lib:

Comment: 1,1'-ethenylidenebis(4-chloro-benzene) (DDNU)

Elemental Formula: C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>

Source: anthropogenic

Identification: Reference Database MS



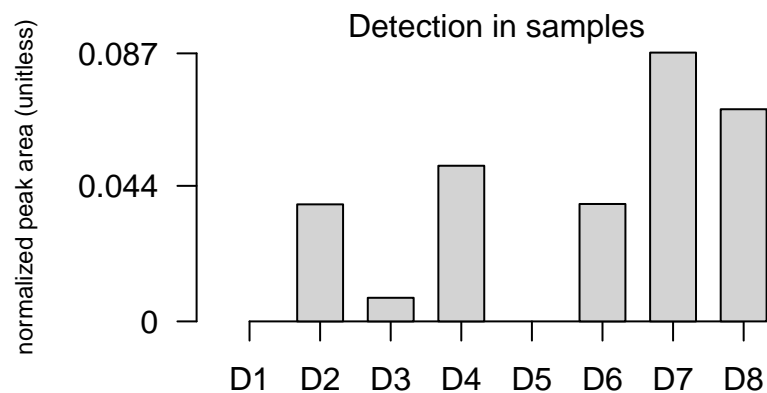
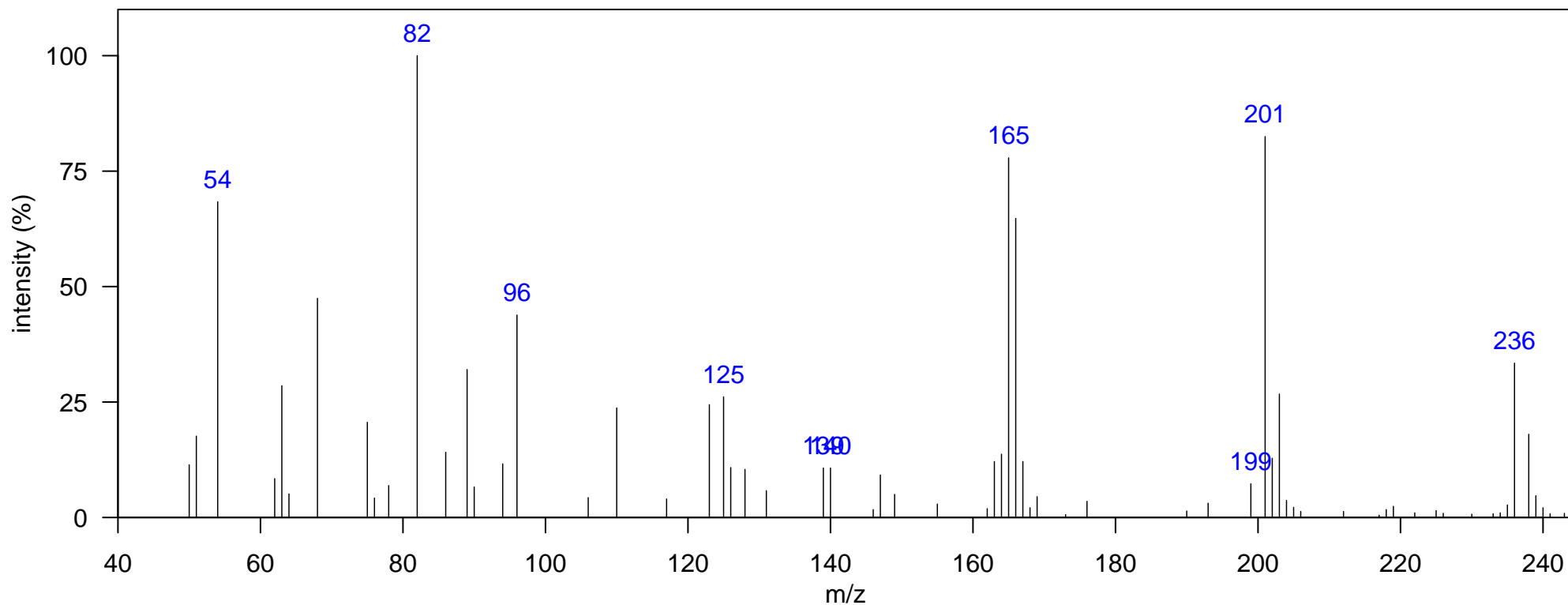
m/z [Fragment]
178 [M-Cl <sub>2</sub> ] <sup>+</sup>
213 [M-Cl] <sup>+</sup>
248 M <sup>+</sup>

Name: DDT related 8

Class: DDT-related

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1411.54, 0.944  
Ecotype: offshore Quantitative Ion m/z: 201  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib:  
Comment: bis(p-chlorophenyl)-methane

Elemental Formula: C<sub>13</sub>H<sub>10</sub>Cl<sub>2</sub>  
Source: anthropogenic  
Identification: Reference Database MS



m/z [Fragment]
165 [M-HCl <sub>2</sub> ] <sup>+</sup>
201 [M-Cl] <sup>+</sup>
236 M <sup>+</sup>

Name: DDT related 9

Class: DDT-related

Sample: SoCal dolphin blubber D8, KXD0003 1D RT, 2D RT (s): 1450.01, 0.917

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment: bis(p-chlorophenyl)-methane

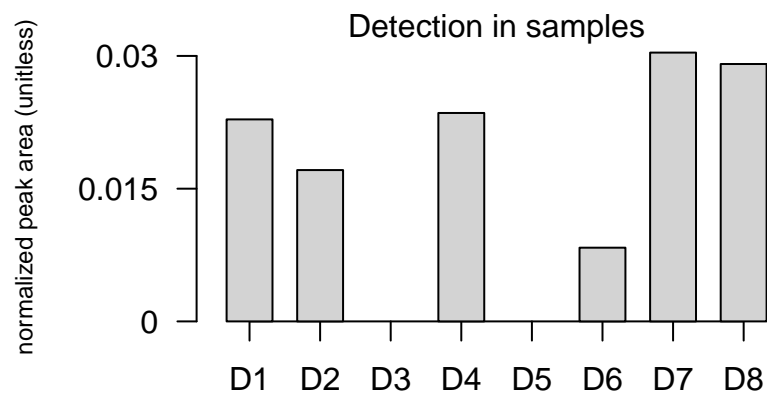
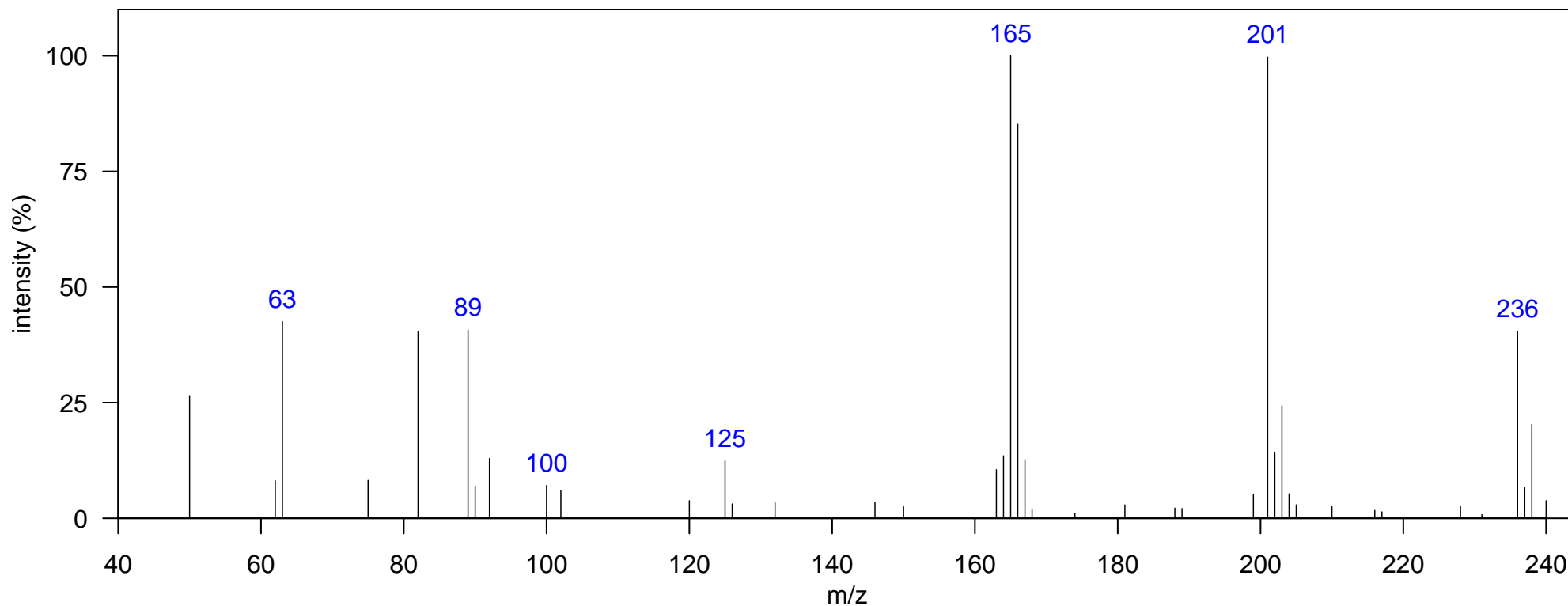
Quantitative Ion m/z: 201

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>10</sub>Cl<sub>2</sub>

Source: anthropogenic

Identification: Reference Database MS



m/z [Fragment]
165 [M-HCl <sub>2</sub> ] <sup>+</sup>
201 [M-Cl] <sup>+</sup>
236 M <sup>+</sup>

Name: DDT related 10

Class: DDT-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1464.01, 1.082

Ecotype: coastal

Quantitative Ion m/z: 235

Instrument: GCxGC-TOF, EI, 70 eV

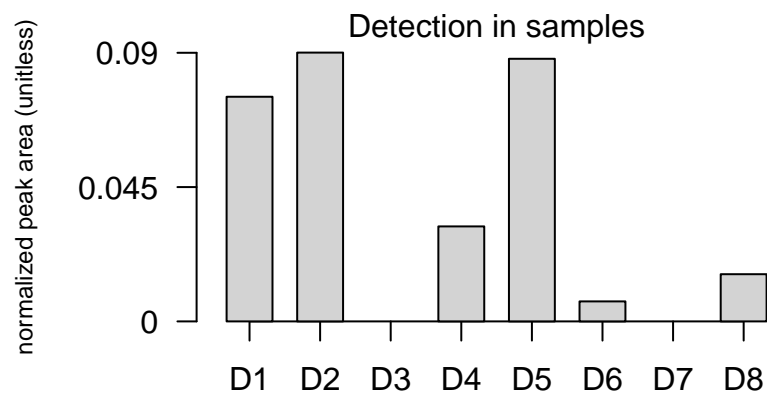
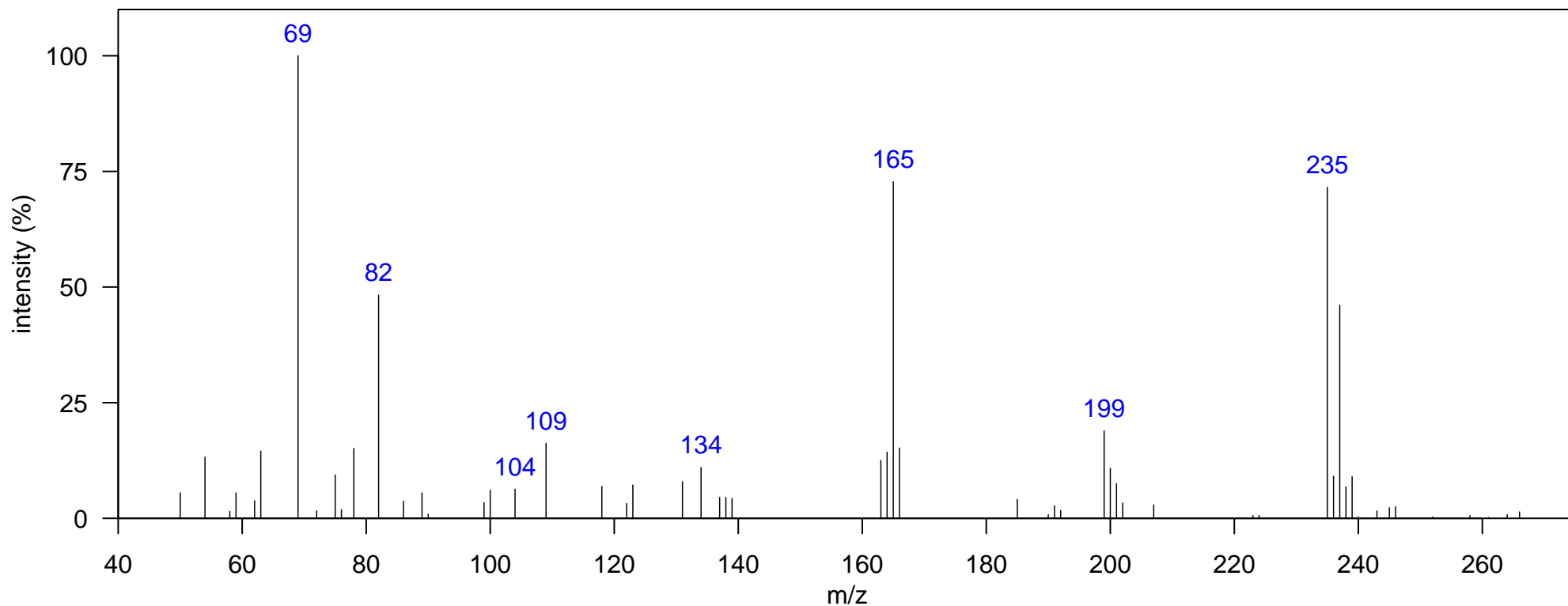
Atlantic Lib: DDT

Elemental Formula: C<sub>14</sub>H<sub>12</sub>Cl<sub>2</sub>O

Source: anthropogenic

Comment: 2,2'-bis(p-chlorophenyl)ethanol (DDOH)

Identification: Reference Database MS



m/z [Fragment]
235 [M-CCl3]

Name: DDMU 1

Class: DDT-related

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1254.13, 1.254

Ecotype: offshore

Quantitative Ion m/z: 212

Elemental Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>

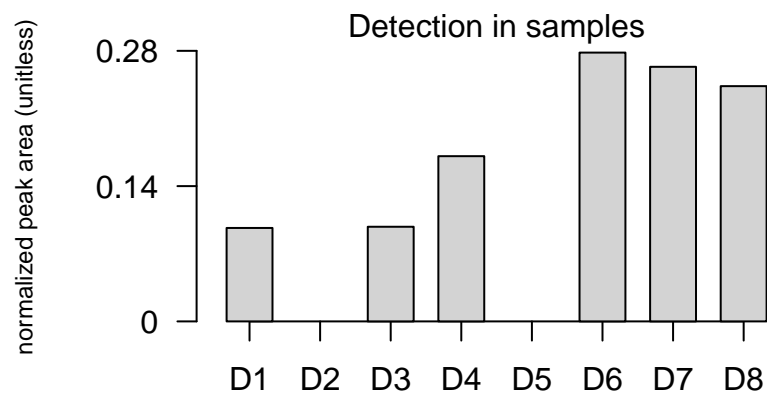
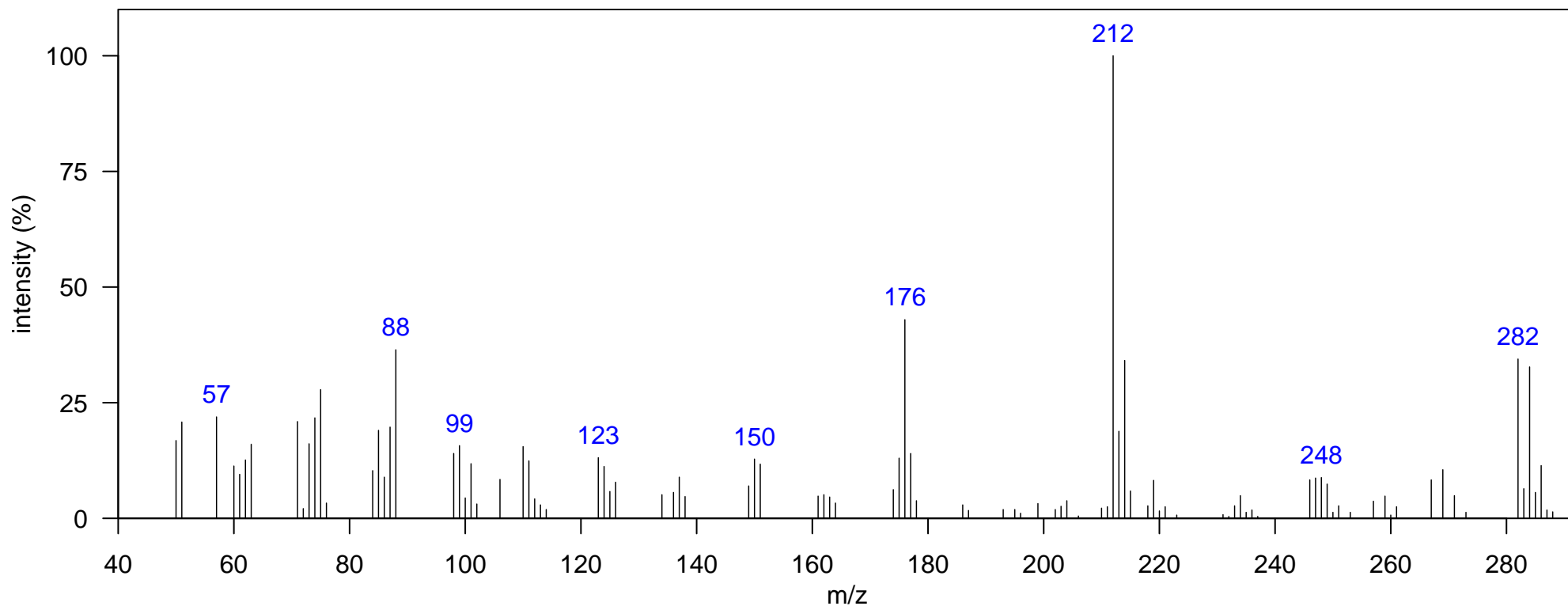
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Source: anthropogenic

Comment:

Identification: Authentic MS



m/z [Fragment]
212 [M-Cl <sub>2</sub> ] <sup>+</sup>
282 M <sup>+</sup>

Name: DDMU 2

Class: DDT-related

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1296.1, 1.274

Ecotype: coastal

Quantitative Ion m/z: 212

Instrument: GCxGC-TOF, EI, 70 eV

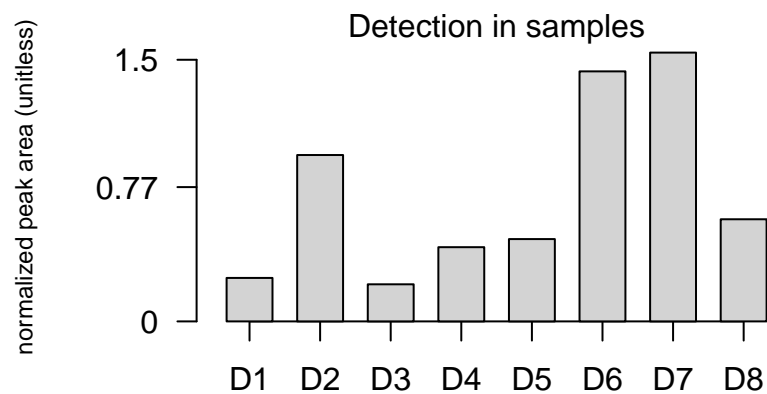
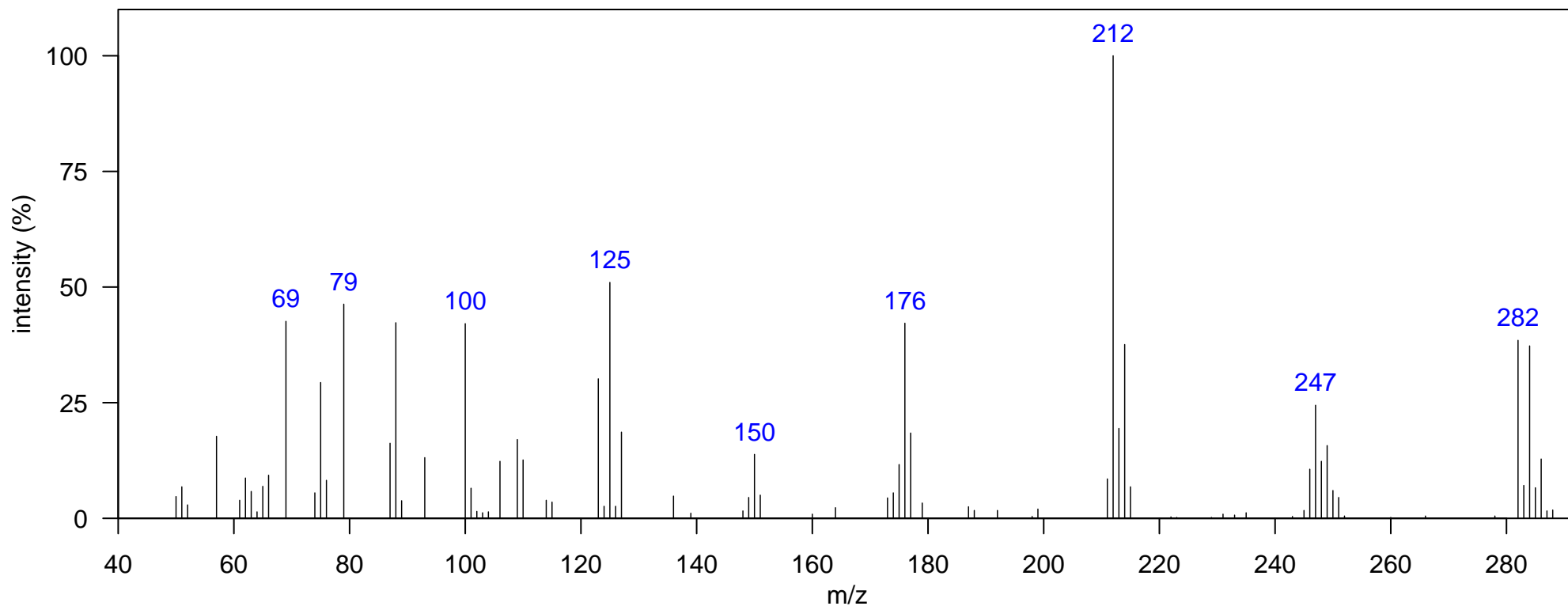
Atlantic Lib: DDMU

Elemental Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>

Source: anthropogenic

Comment:

Identification: Authentic MS



m/z [Fragment]

212 [M-Cl<sub>2</sub>]<sup>+</sup>

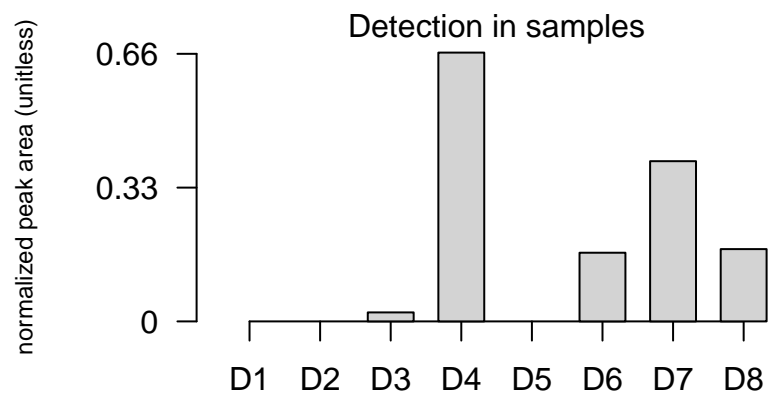
247 [M-Cl]<sup>+</sup>

282 M<sup>+</sup>



Class: DDT-related

Elemental Formula:  
Source: anthropogenic  
Identification: Manual



m/z [Fragment]

Name: DDT related 12

Class: DDT-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1317.09, 1.346

Ecotype: coastal

Quantitative Ion m/z: 235

Instrument: GCxGC-TOF, EI, 70 eV

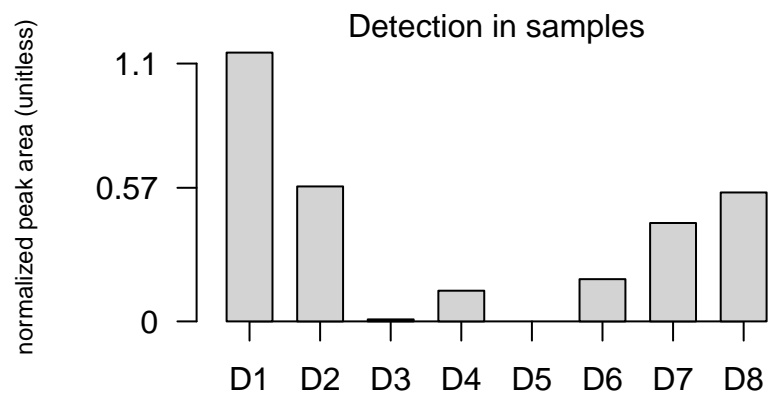
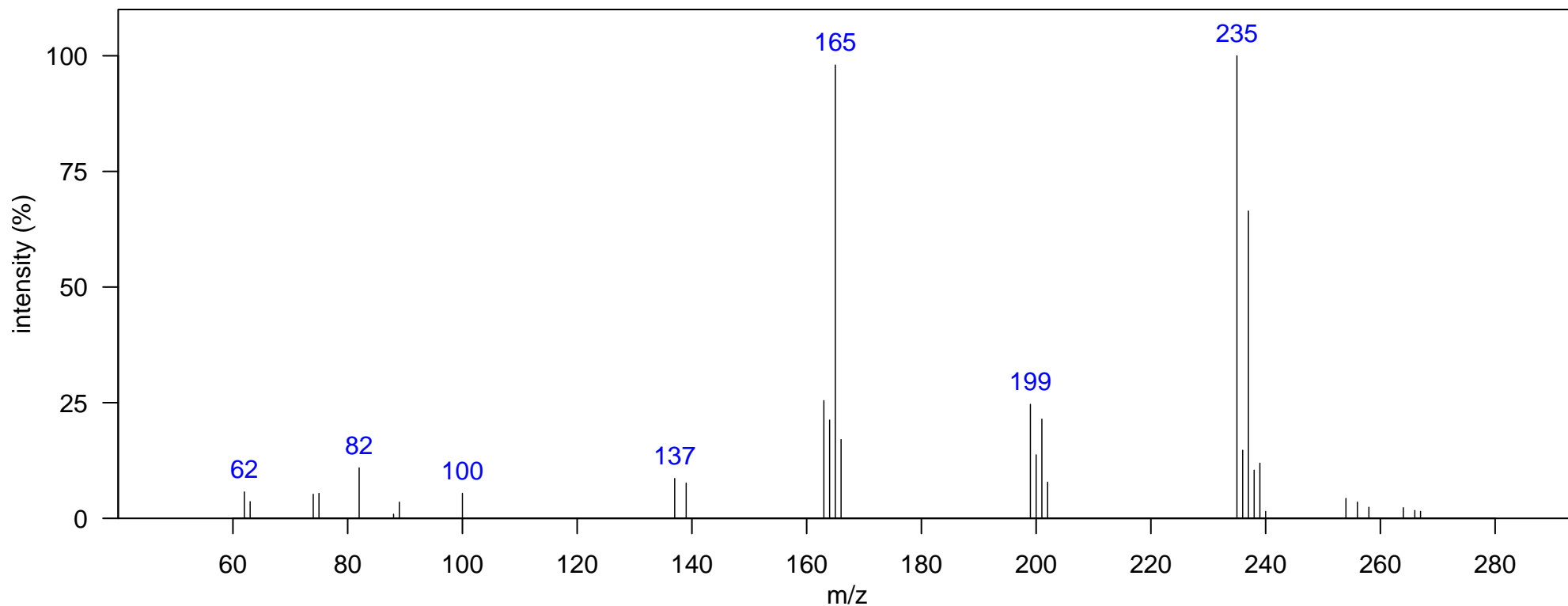
Atlantic Lib: DDM

Elemental Formula: C<sub>14</sub>H<sub>11</sub>Cl<sub>3</sub>

Source: anthropogenic

Comment: 1-chloro-2,2-bis(p-chlorophenyl)ethane

Identification: Reference Database MS



m/z [Fragment]
235 [M-CH2OH]
266 M+

Name: DDMU 3

Class: DDT-related

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1331.08, 1.32

Ecotype: coastal

Quantitative Ion m/z: 212

Instrument: GCxGC-TOF, EI, 70 eV

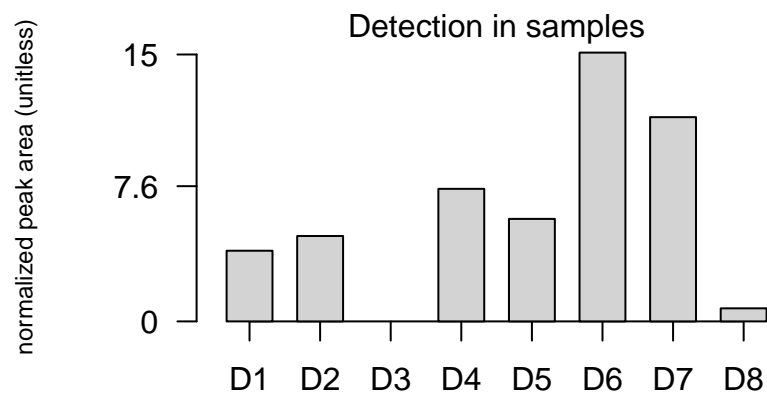
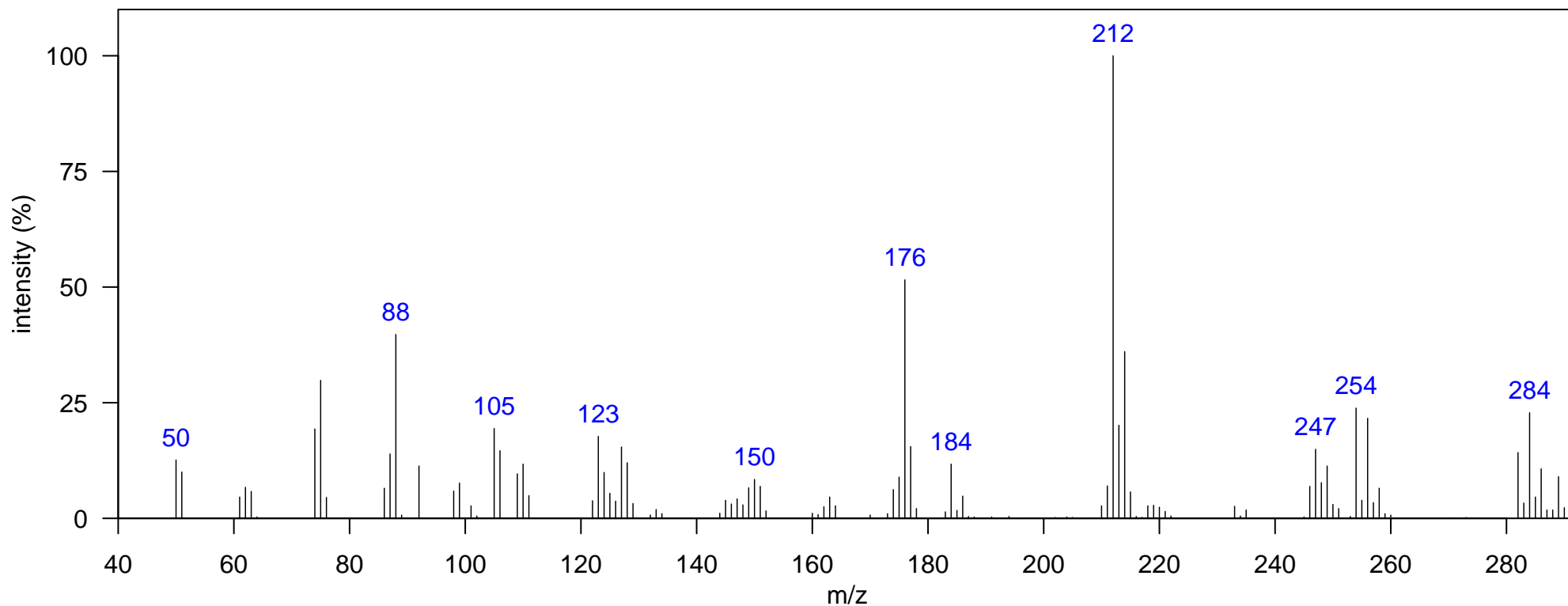
Atlantic Lib: DDMU

Elemental Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]
212 [M-Cl <sub>2</sub> ] <sup>+</sup>
247 [M-Cl] <sup>+</sup>
282 M <sup>+</sup>

Name: DDT related 13

Class: DDT-related

Sample: SoCal dolphin blubber D8, KXD0003 1D RT, 2D RT (s): 1355.57, 1.32

Ecotype: coastal

Quantitative Ion m/z: 235

Instrument: GCxGC-TOF, EI, 70 eV

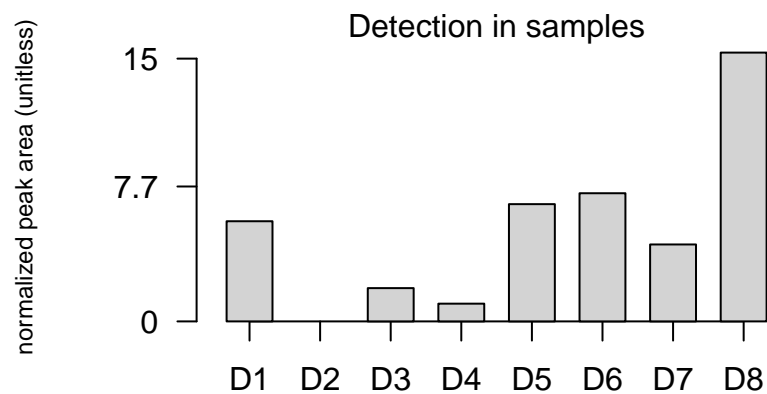
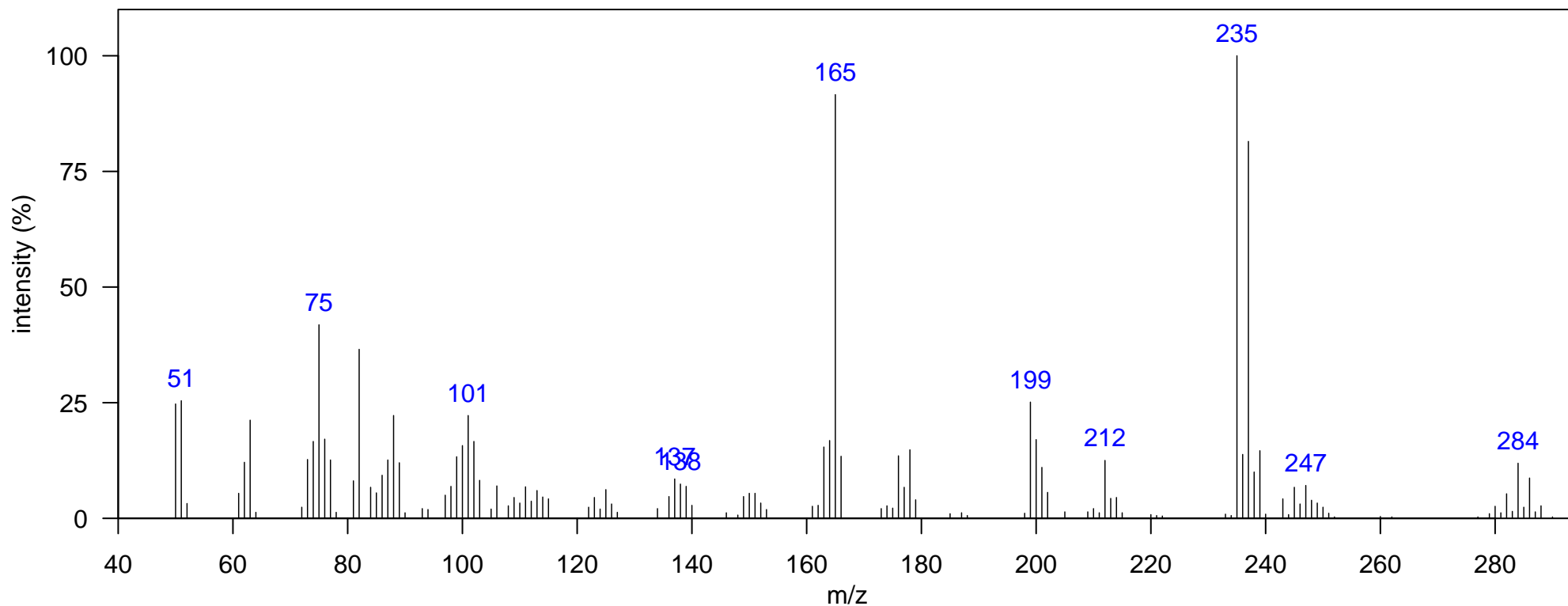
Atlantic Lib: DDM

Elemental Formula: C<sub>14</sub>H<sub>11</sub>Cl<sub>3</sub>

Source: anthropogenic

Comment: 1-chloro-2,2-bis(p-chlorophenyl)ethane

Identification: Reference Database MS



m/z [Fragment]
235 [M-CH <sub>2</sub> Cl] <sup>+</sup>
284 M <sup>+</sup>

Name: DDMU 4

Class: DDT-related

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1453.51, 1.069

Ecotype: offshore

Quantitative Ion m/z: 212

Elemental Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>

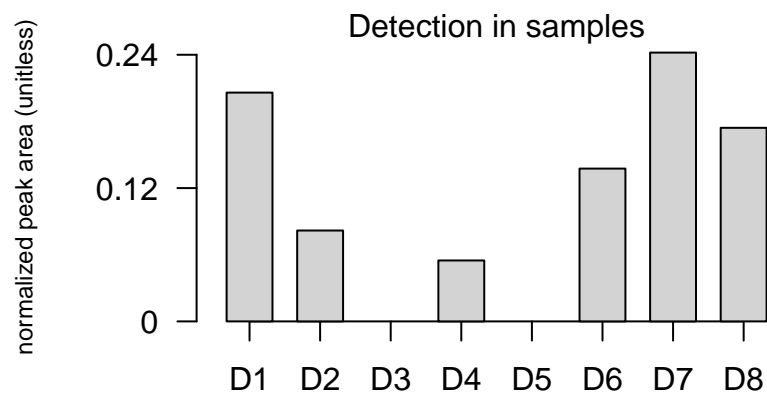
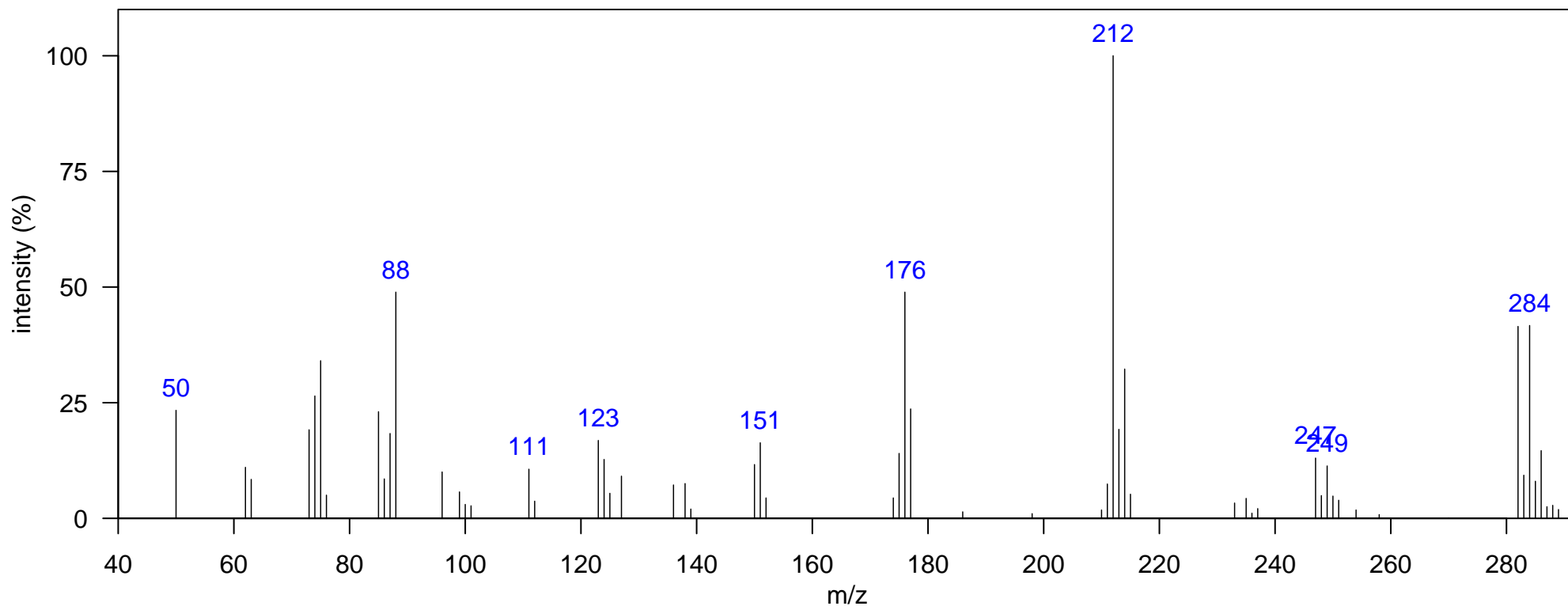
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDMU

Source: anthropogenic

Comment:

Identification: Authentic MS



m/z [Fragment]
247 [M-Cl]
282 M+

Name: o,p'-DDD

Class: DDT-related

Sample: SoCal dolphin blubber D6, DSJ2155 1D RT, 2D RT (s): 1376.56, 1.346

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

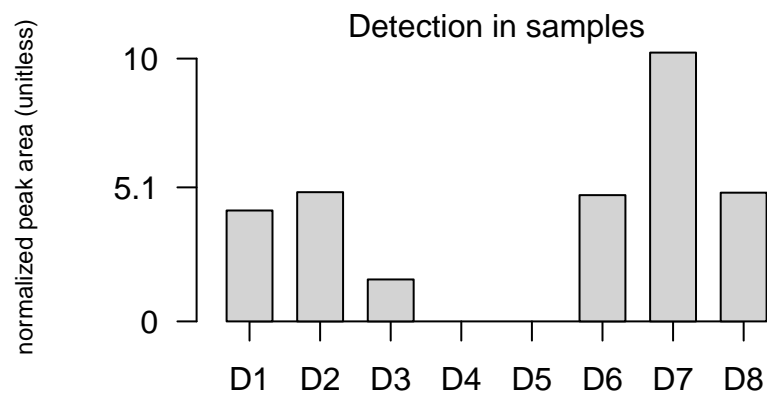
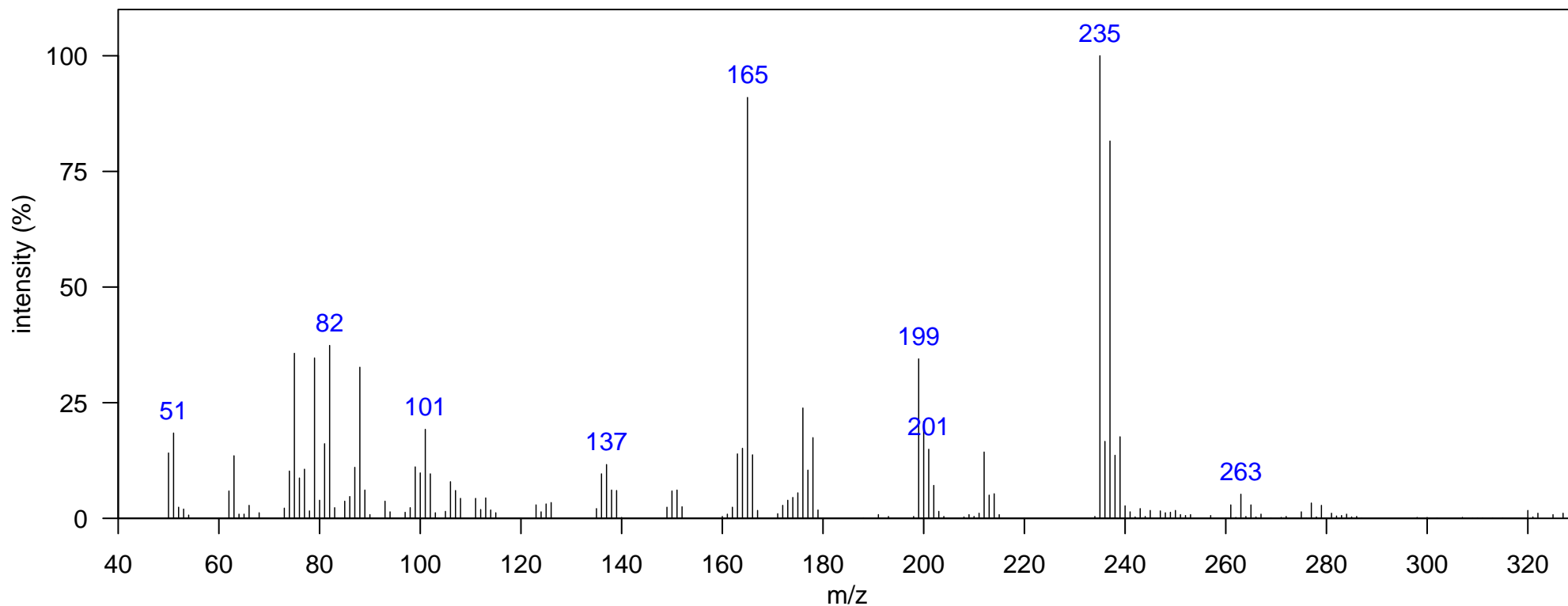
Quantitative Ion m/z: 235

Atlantic Lib: o,p'-DDD

Elemental Formula: C<sub>14</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Authentic MS RT



m/z [Fragment]
235 [M-CHCl <sub>2</sub> ] <sup>+</sup>
318 M <sup>+</sup>

Name: p,p'-DDD

Class: DDT-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1411.54, 1.379

Ecotype: coastal

Quantitative Ion m/z: 237

Instrument: GCxGC-TOF, EI, 70 eV

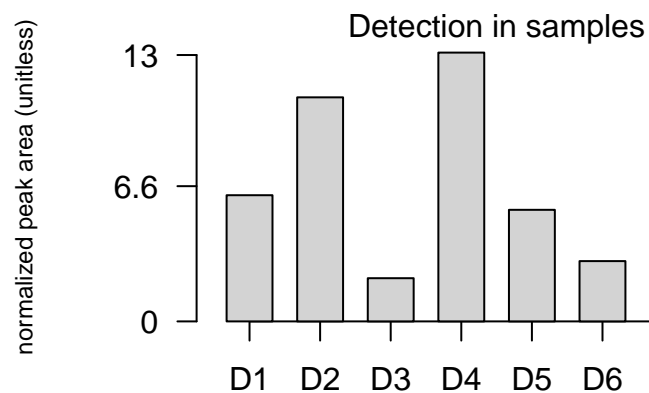
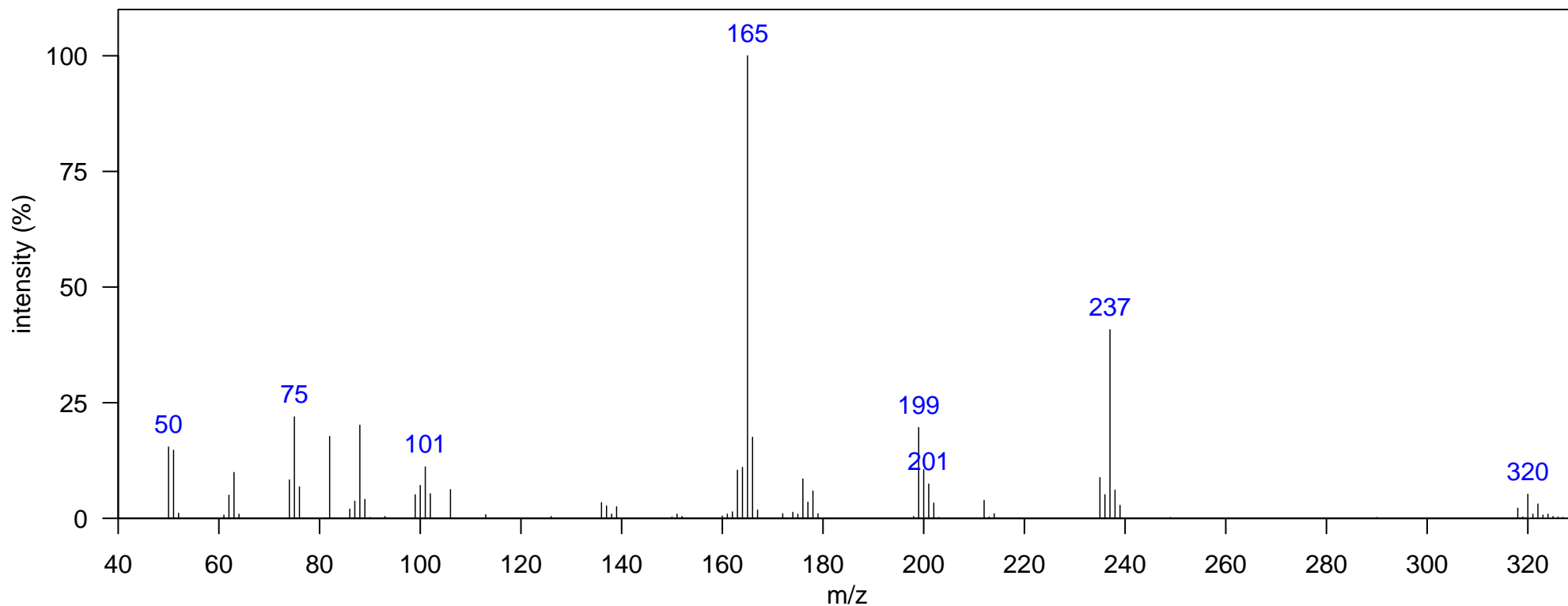
Atlantic Lib: p,p'-DDD

Elemental Formula: C<sub>14</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]

237 [M-CHCl<sub>2</sub>]<sup>+</sup>

318 M<sup>+</sup>

Name: DDT related 14

Class: DDT-related

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1484.99, 1.406

Ecotype: offshore

Quantitative Ion m/z: 386

Instrument: GCxGC-TOF, EI, 70 eV

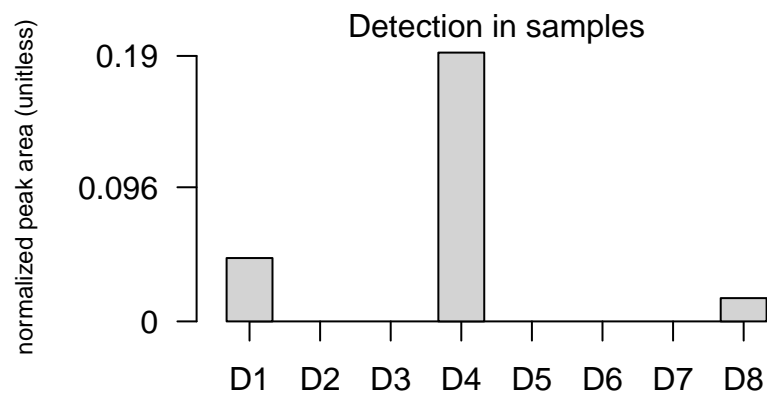
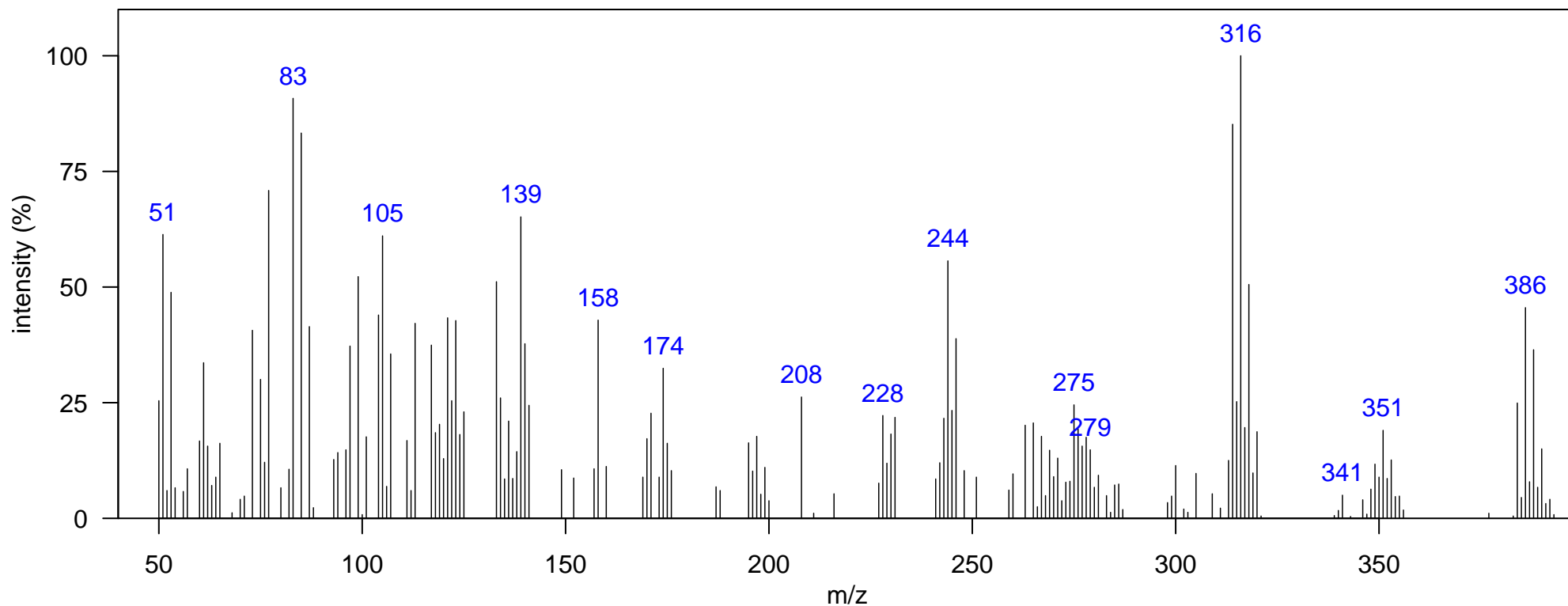
Atlantic Lib: DDT related 1

Elemental Formula: C<sub>14</sub>H<sub>6</sub>Cl<sub>6</sub>

Source: anthropogenic

Comment: Suggested DDE backbone structure, but containing 6 chlorines

Identification: Manual-Congener Group



m/z [Fragment]
314 [M-2Cl]+
349 [M-Cl]+
384 M+



Name: DDT related 15

Class: DDT-related

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1488.49, 1.399

Ecotype: coastal

Quantitative Ion m/z: 386

Instrument: GCxGC-TOF, EI, 70 eV

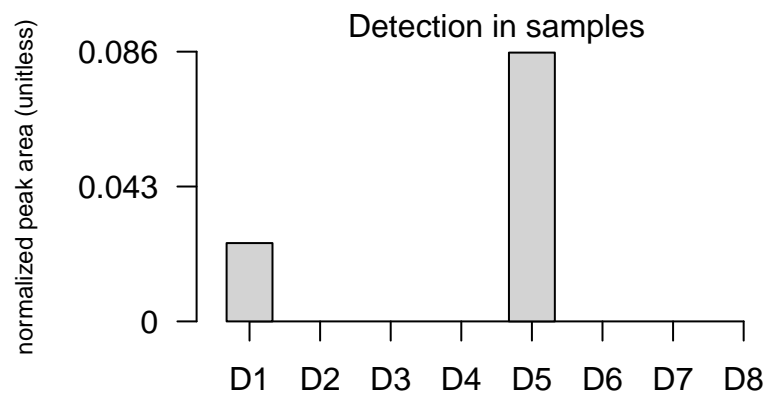
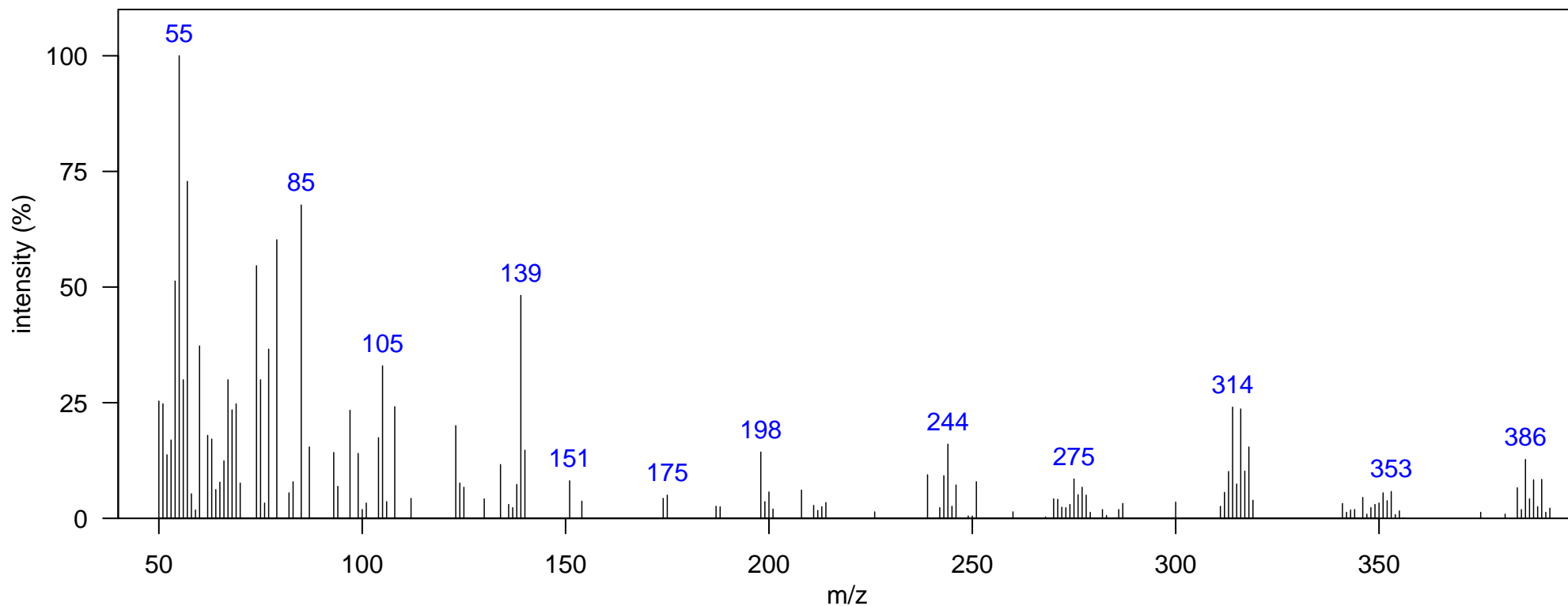
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>6</sub>Cl<sub>6</sub>

Source: anthropogenic

Comment: Suggested DDE backbone structure, but containing 6 chlorines

Identification: Manual-Congener Group



m/z [Fragment]
314 [M-2Cl]+
349 [M-Cl]+
384 M+

Name: DDT related 16

Class: DDT-related

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1481.5, 1.399

Ecotype: offshore

Quantitative Ion m/z: 386

Instrument: GCxGC-TOF, EI, 70 eV

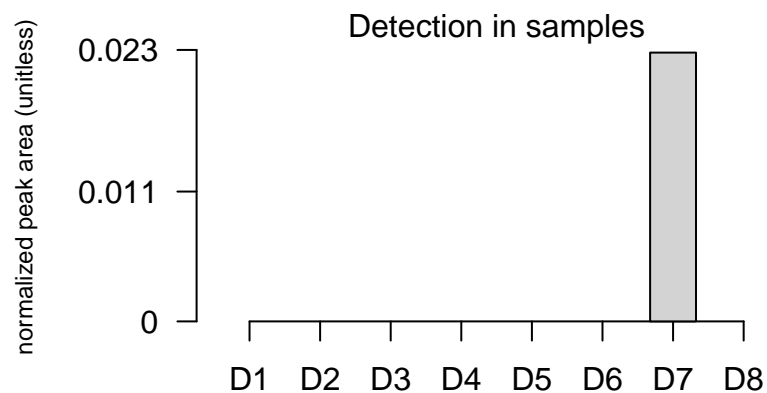
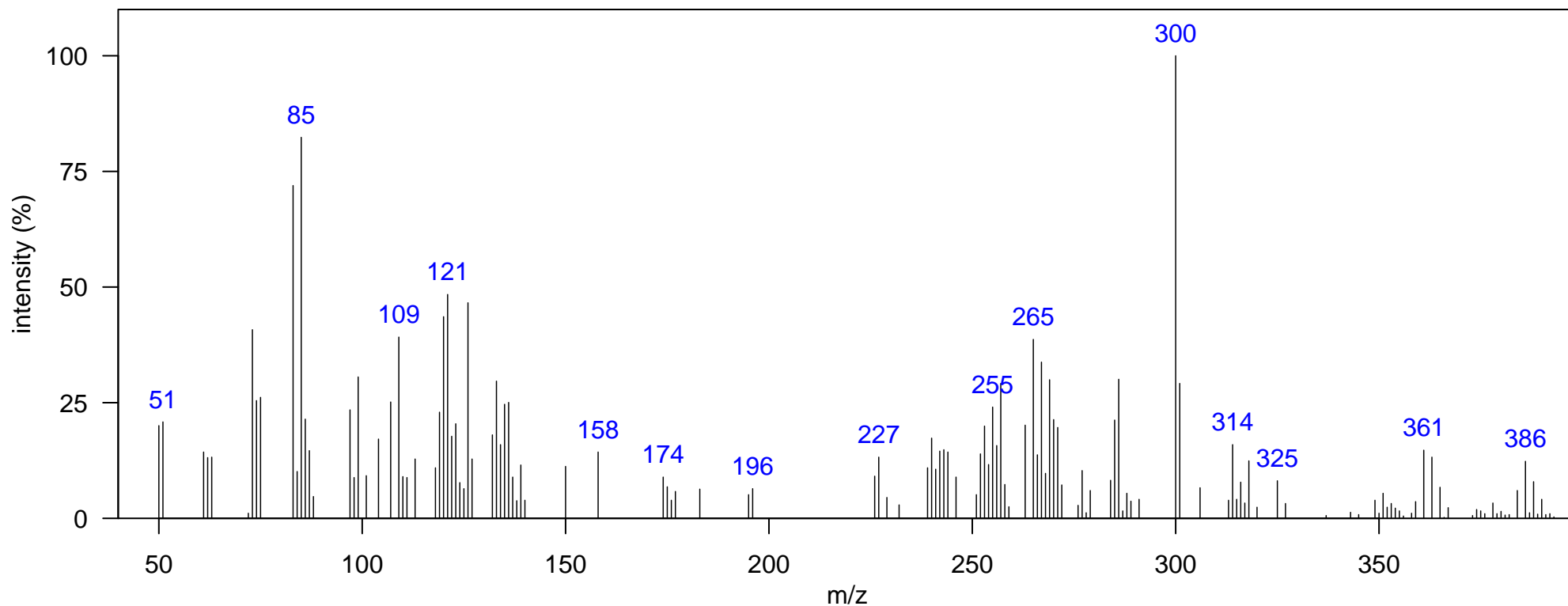
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>6</sub>Cl<sub>6</sub>

Source: anthropogenic

Comment: Suggested DDE backbone structure, but containing 6 chlorines

Identification: Manual-Congener Group



m/z [Fragment]
314 [M-2Cl] <sup>+</sup>
349 [M-Cl] <sup>+</sup>
384 M <sup>+</sup>

Name: DDT related 17

Class: DDT-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1523.47, 1.393

Ecotype: coastal

Quantitative Ion m/z: 386

Instrument: GCxGC-TOF, EI, 70 eV

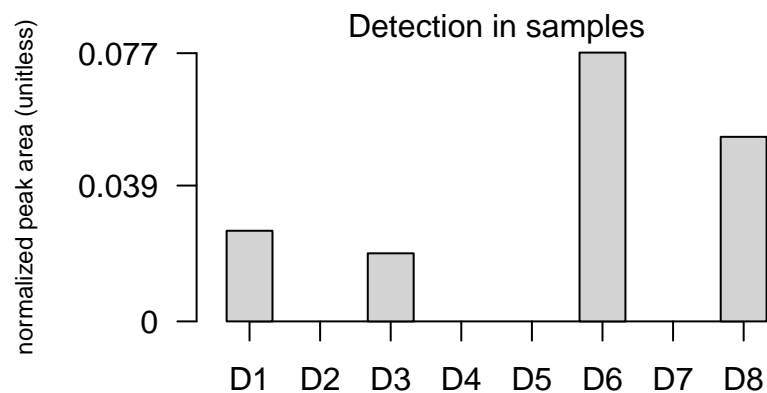
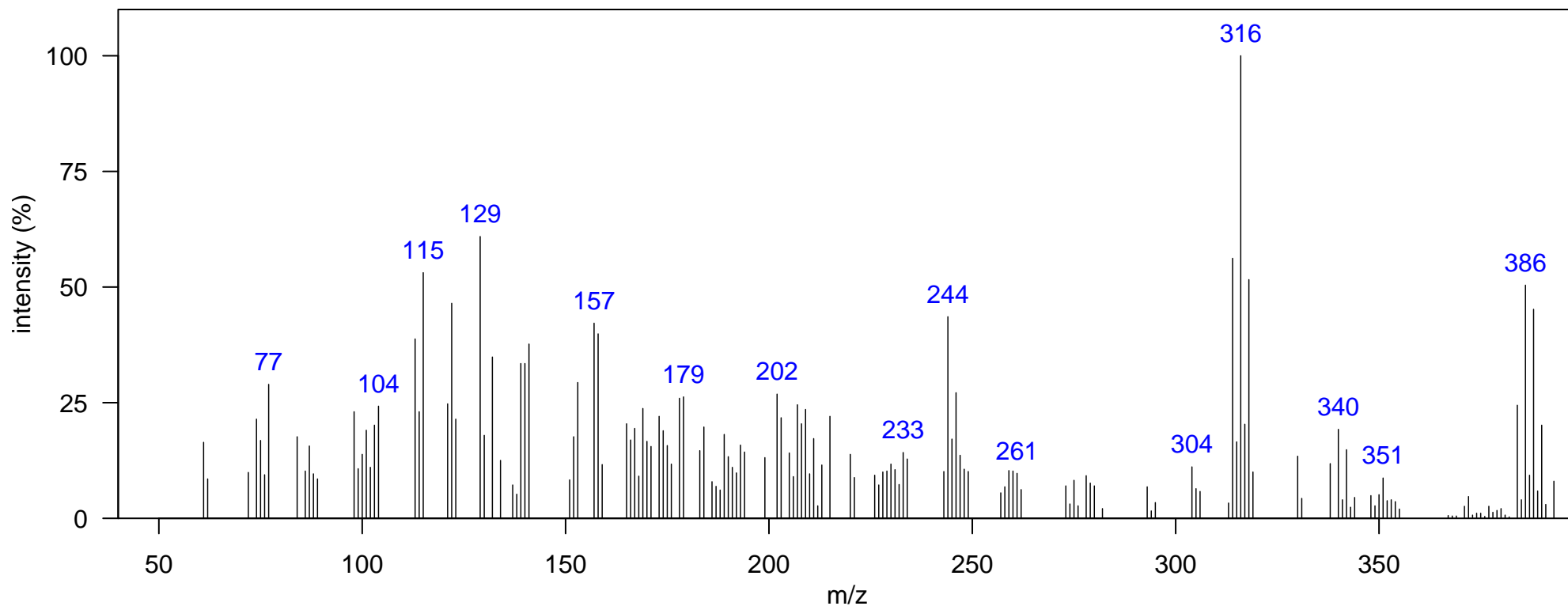
Atlantic Lib: DDT related 1

Elemental Formula: C<sub>14</sub>H<sub>6</sub>Cl<sub>6</sub>

Source: anthropogenic

Comment: Suggested DDE backbone structure, but containing 6 chlorines

Identification: Manual-Congener Group



m/z [Fragment]
314 [M-2Cl]+
349 [M-Cl]+
384 M+

Name: DDT related 18

Class: DDT-related

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1551.46, 1.485

Ecotype: offshore

Quantitative Ion m/z: 420

Instrument: GCxGC-TOF, EI, 70 eV

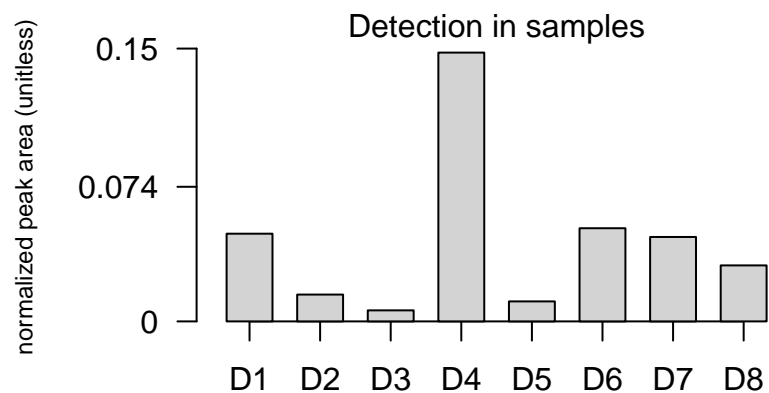
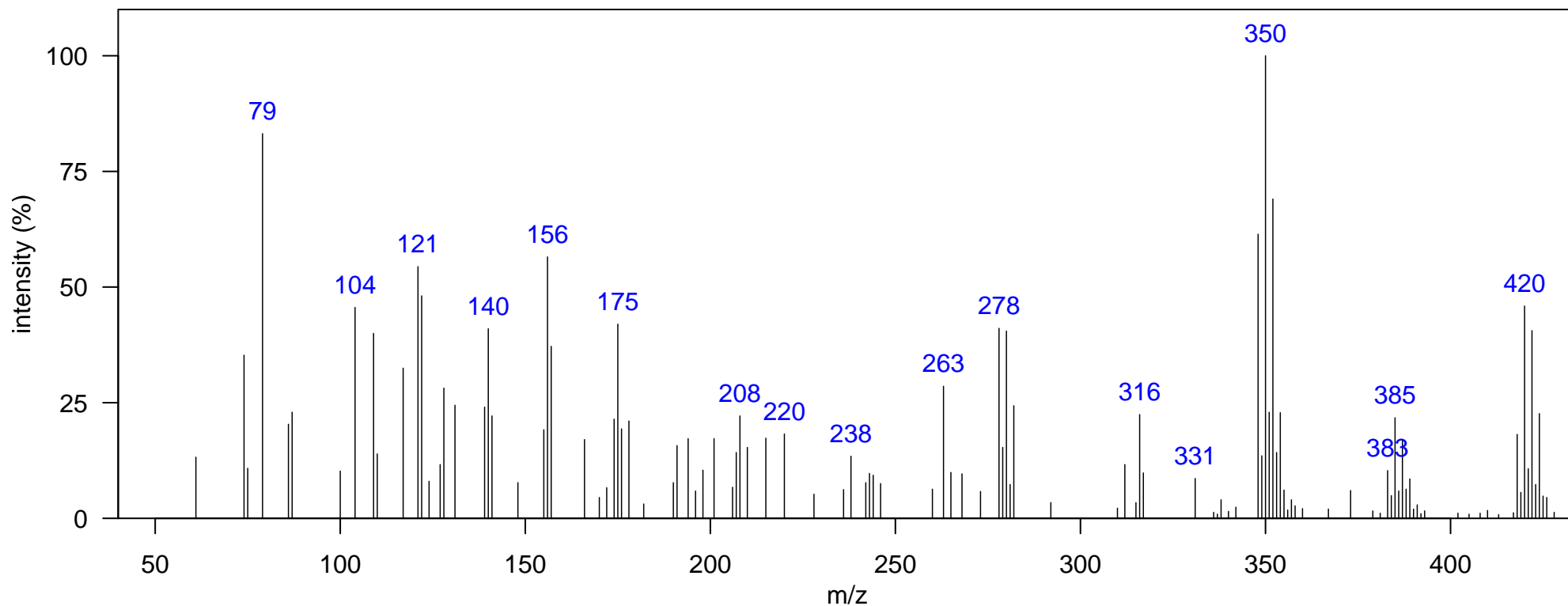
Atlantic Lib: DDT related 2&3

Elemental Formula: C<sub>14</sub>H<sub>5</sub>Cl<sub>7</sub>

Source: anthropogenic

Comment: Suggested DDE backbone structure, but containing 7 chlorines

Identification: Manual-Congener Group



m/z [Fragment]
278 [M-Cl <sub>4</sub> ] <sup>+</sup>
348 [M-Cl <sub>2</sub> ] <sup>+</sup>
383 [M-Cl] <sup>+</sup>
418 M <sup>+</sup>

Name: DDT related 19

Class: DDT-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1558.45, 1.525

Ecotype: coastal

Quantitative Ion m/z: 420

Elemental Formula: C<sub>14</sub>H<sub>5</sub>Cl<sub>7</sub>

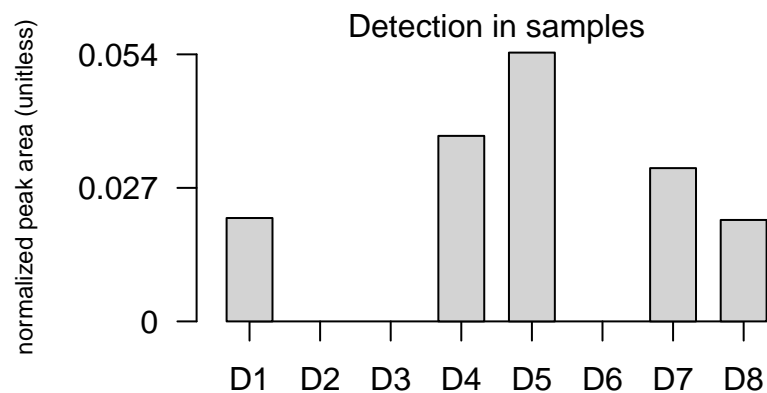
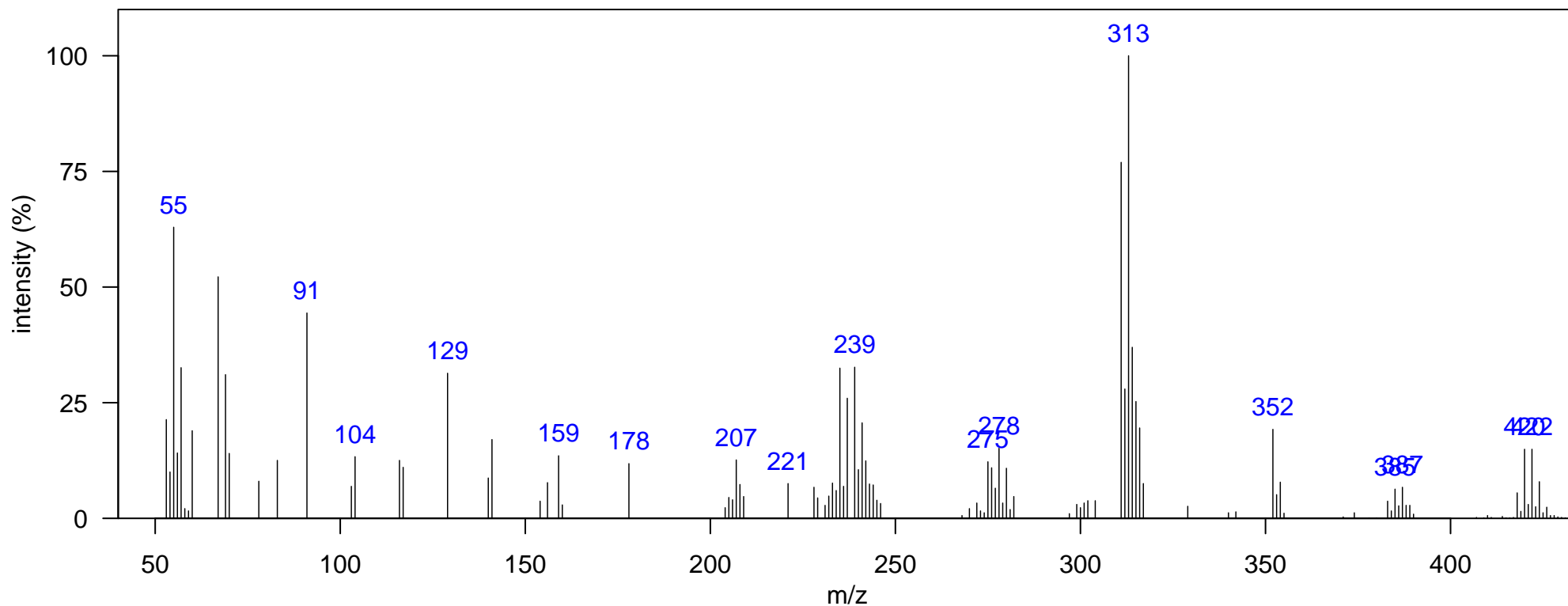
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDT related 2&3

Source: anthropogenic

Comment: Suggested DDE backbone structure, but containing 7 chlorines

Identification: Manual-Congener Group



m/z [Fragment]
278 [M-Cl <sub>4</sub> ] <sup>+</sup>
348 [M-Cl <sub>2</sub> ] <sup>+</sup>
383 [M-Cl] <sup>+</sup>
418 M <sup>+</sup>

Name: DDT related 20

Class: DDT-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1582.94, 1.571

Ecotype: coastal

Quantitative Ion m/z: 350

Elemental Formula: C<sub>14</sub>H<sub>5</sub>Cl<sub>7</sub>

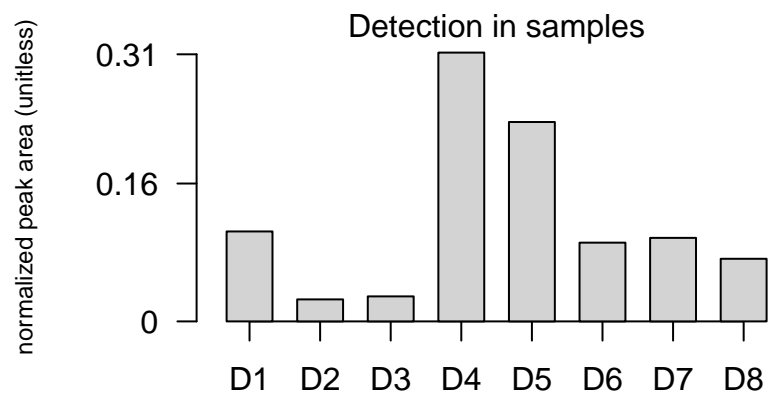
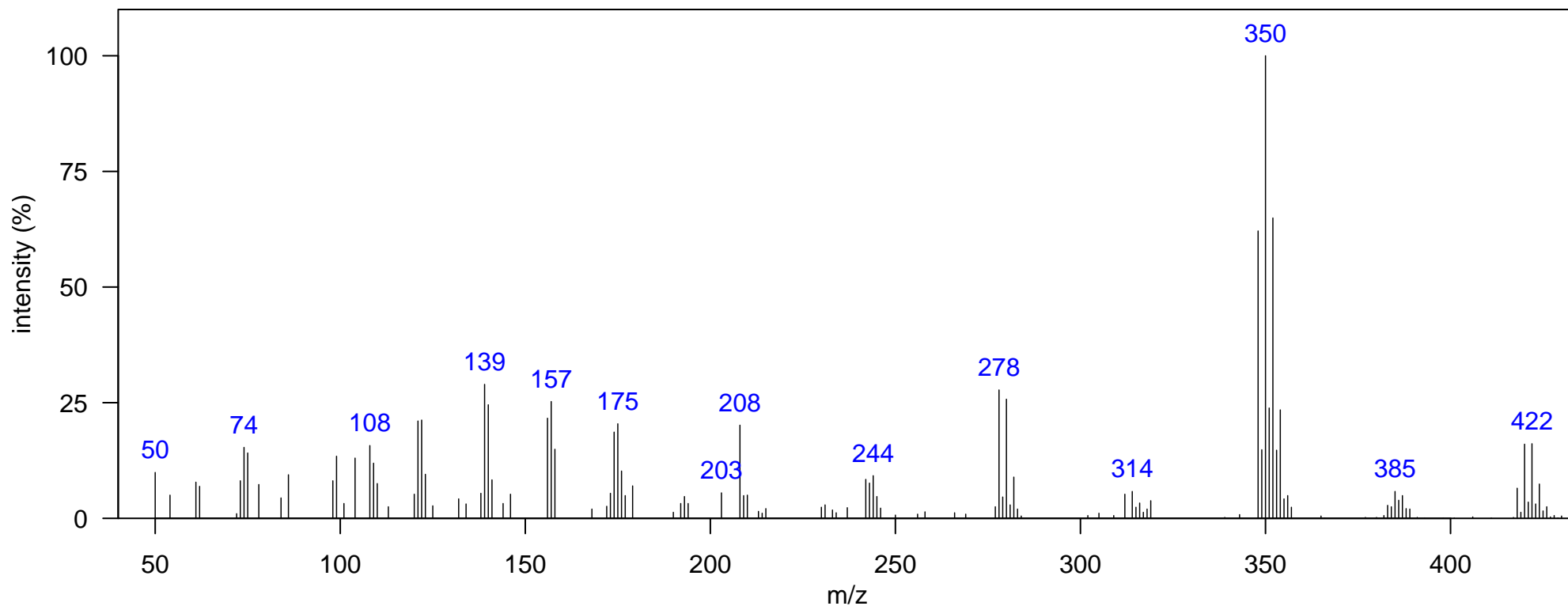
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDT related 2&3

Source: anthropogenic

Comment: Suggested DDE backbone structure, but containing 7 chlorines

Identification: Manual-Congener Group



m/z [Fragment]
278 [M-Cl <sub>4</sub> ] <sup>+</sup>
348 [M-Cl <sub>2</sub> ] <sup>+</sup>
383 [M-Cl] <sup>+</sup>
418 M <sup>+</sup>

Class: DDT-related

Elemental Formula:

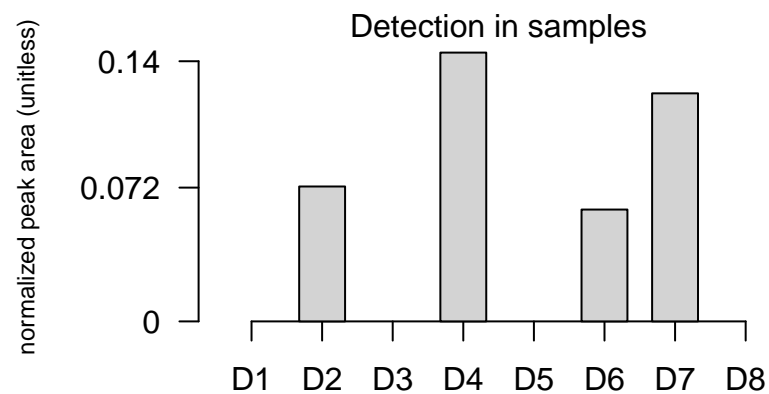
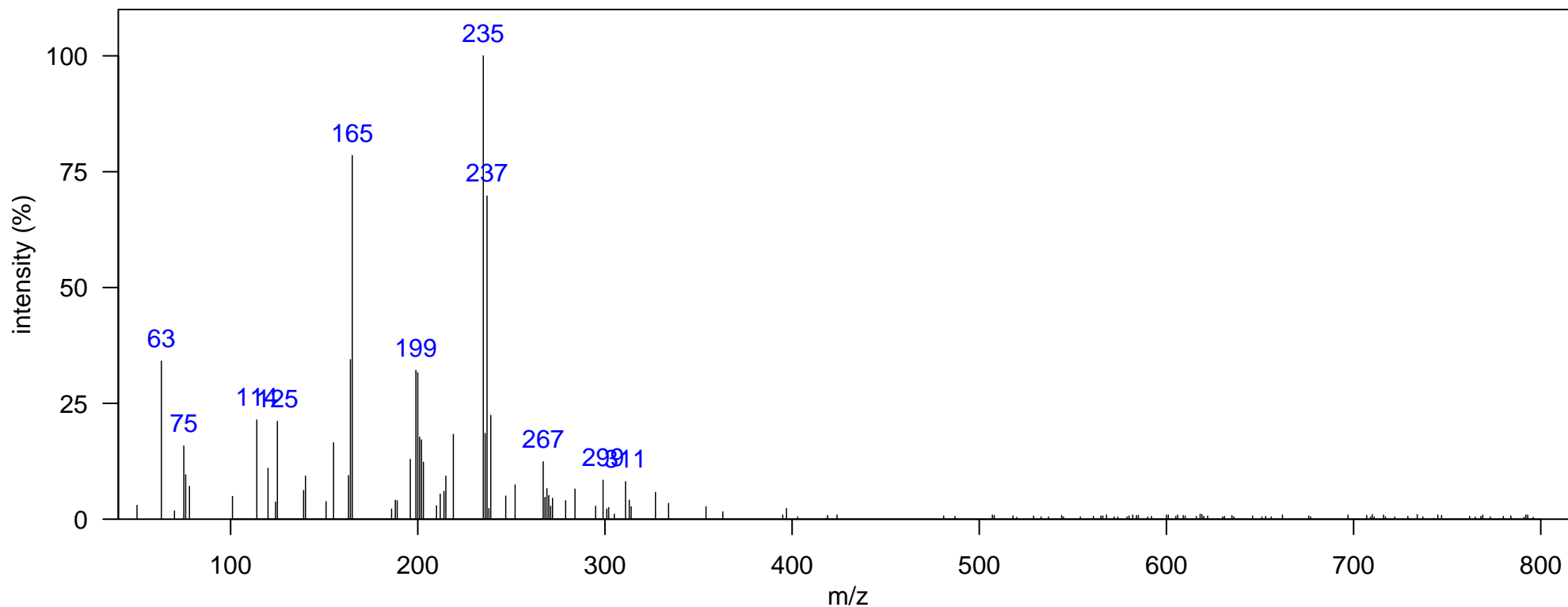
Quantitative Ion m/z: 235

Source: anthropogenic

Atlantic Lib:

Identification: Manual

Comment:



m/z [Fragment]

Name: DDT related 22

Class: DDT-related

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1652.9, 1.934

Ecotype: offshore

Quantitative Ion m/z: 235

Instrument: GCxGC-TOF, EI, 70 eV

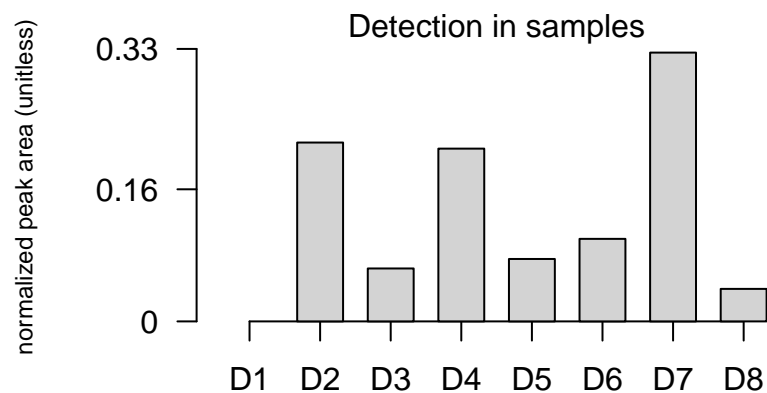
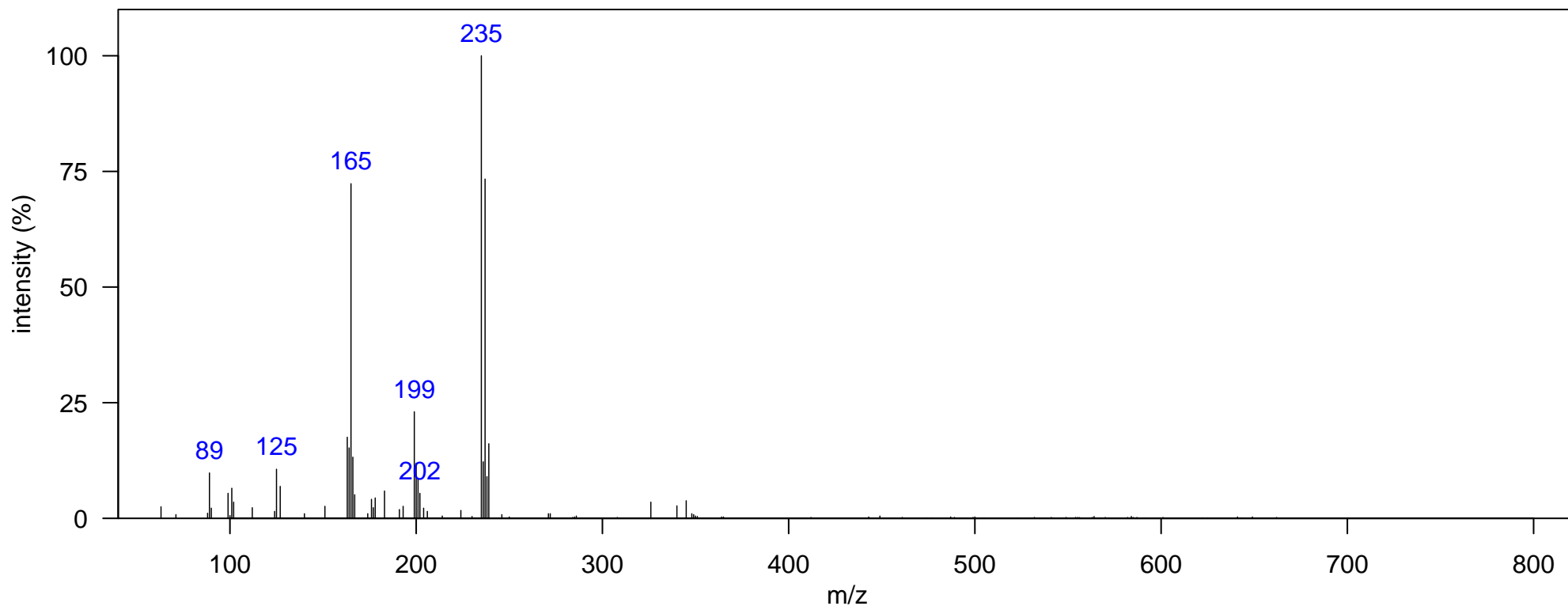
Atlantic Lib:

Elemental Formula:

Source: anthropogenic

Comment:

Identification: Manual



m/z [Fragment]
165 [Frag-Cl2]+
235 [Frag]+



Name: DDT related 23

Class: DDT-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1659.89, 1.861

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

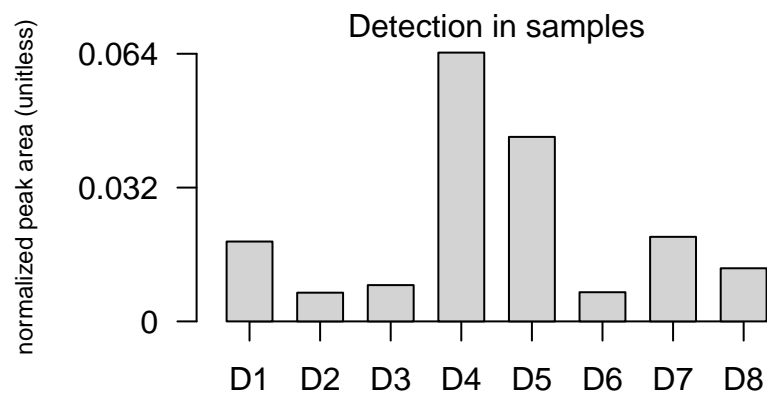
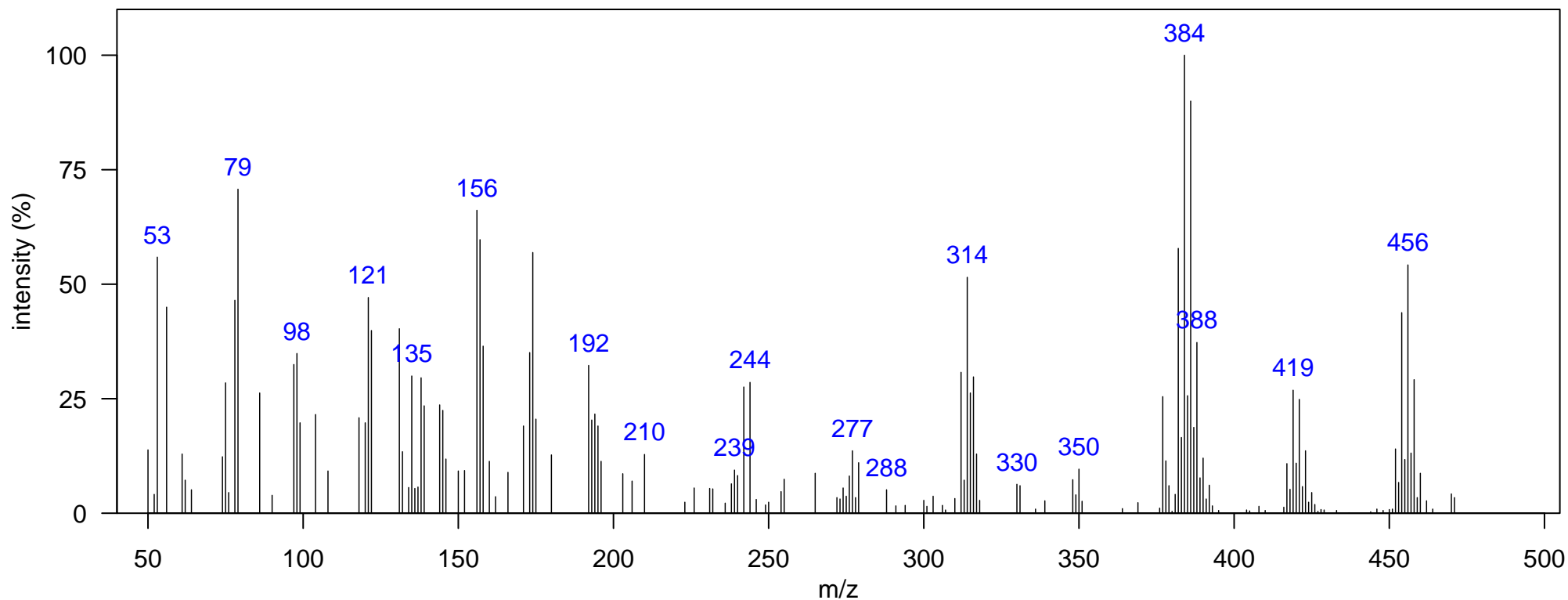
Quantitative Ion m/z: 456

Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>3</sub>Cl<sub>9</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
382 [M-Cl <sub>2</sub> ] <sup>+</sup>
417 [M-Cl] <sup>+</sup>
452 M <sup>+</sup>

Name: TCPM 2CI

Class: TCPM

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1547.96, 1.089

Elemental Formula: C<sub>19</sub>H<sub>14</sub>Cl<sub>2</sub>

Ecotype: coastal

Quantitative Ion m/z: 275

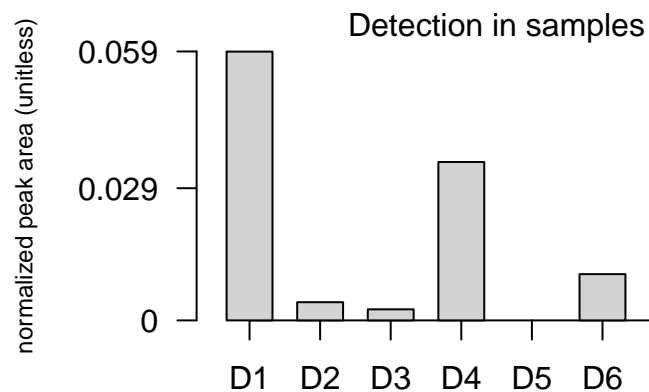
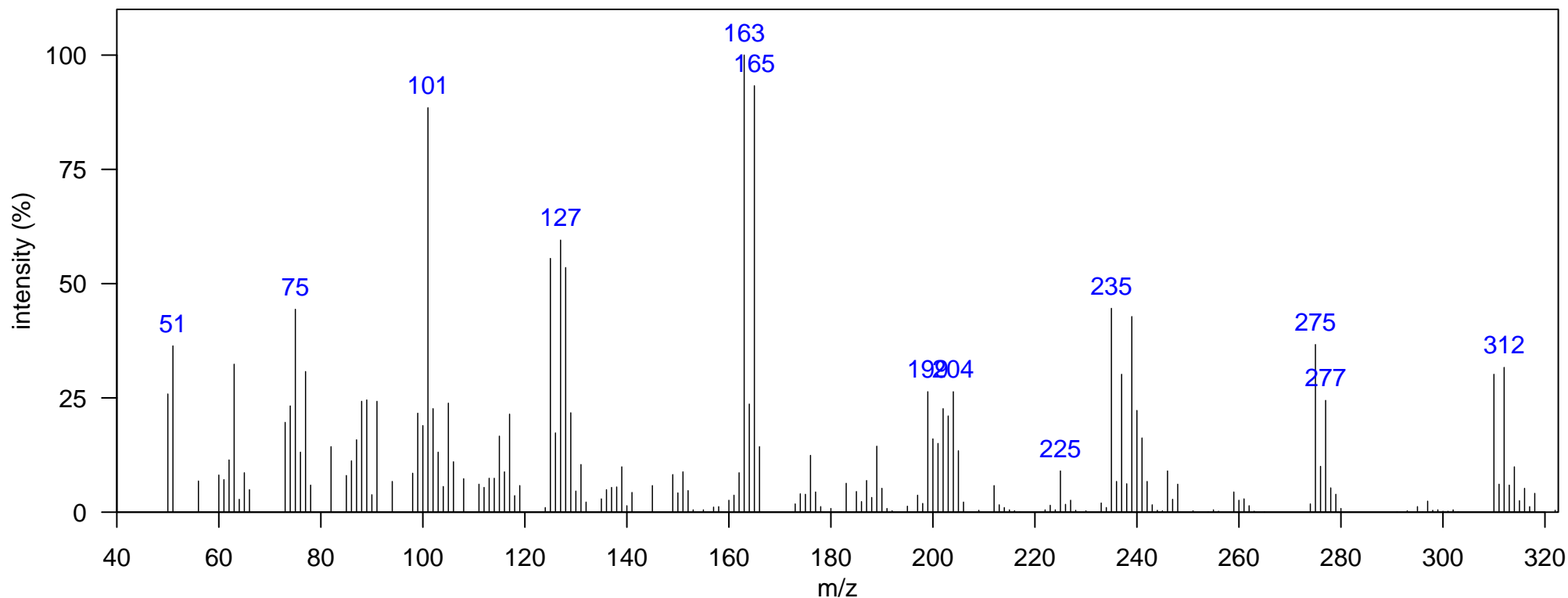
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: TCPM isomer 1 and isomer 2

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
275 [M-HCl <sub>2</sub> ] <sup>+</sup>
311 [M-Cl] <sup>+</sup>
346 M <sup>+</sup>

Name: TCPM 1

Class: TCPM

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1484.99, 1.531

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>

Ecotype: coastal

Quantitative Ion m/z: 311

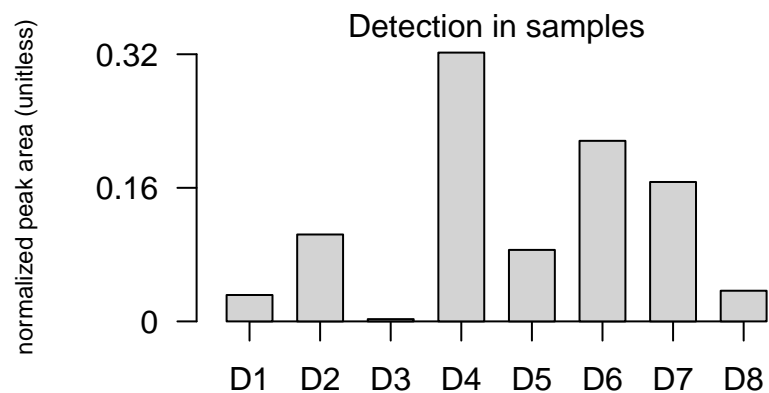
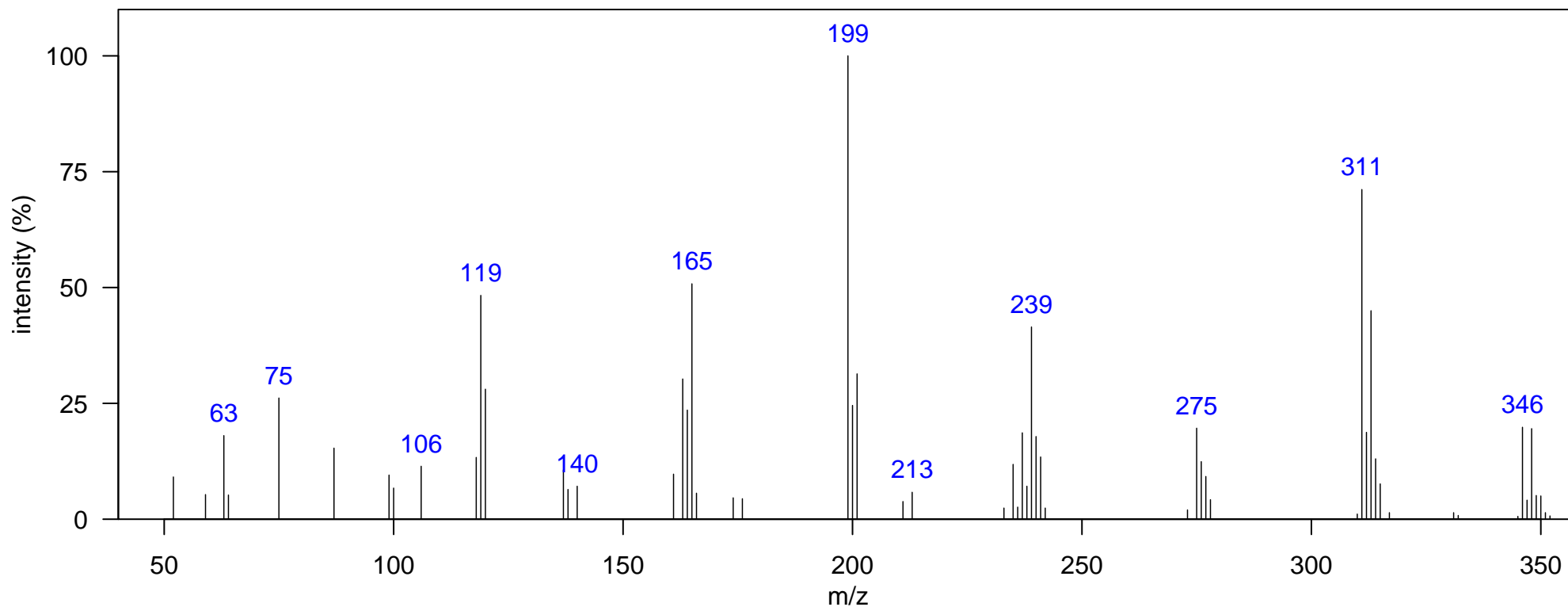
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: TCPM isomer 1 and isomer 2

Identification: Authentic MS

Comment:



m/z [Fragment]

275 [M-HCl<sub>2</sub>]<sup>+</sup>

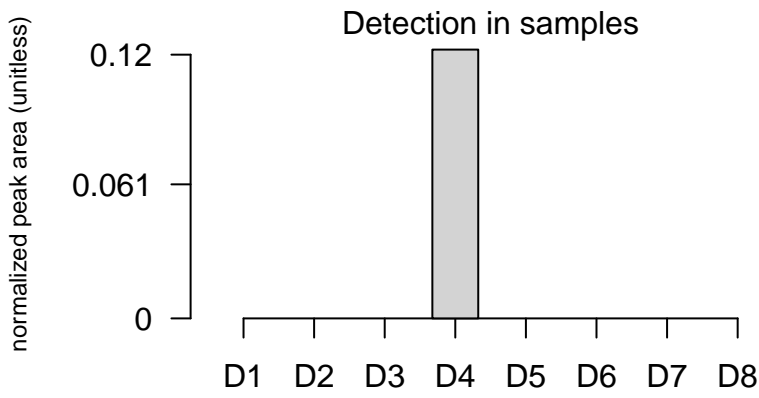
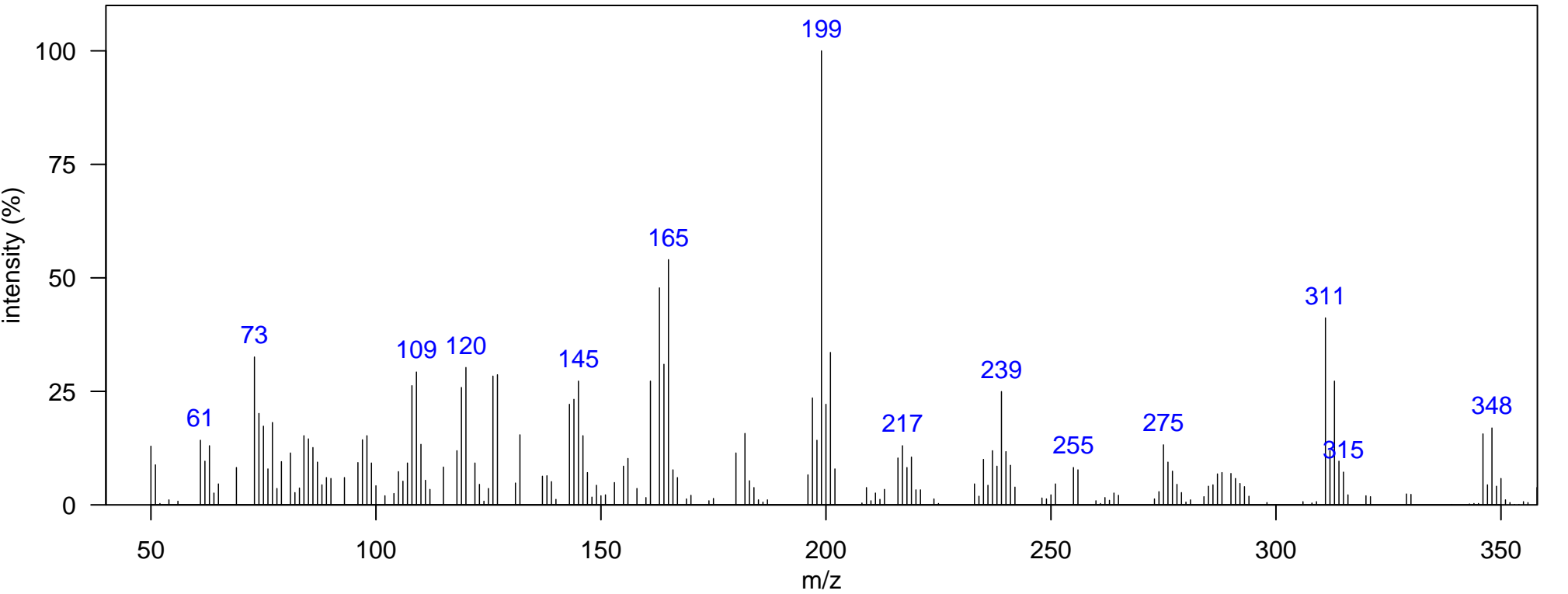
311 [M-Cl]<sup>+</sup>

346 M<sup>+</sup>

Sample: SoCal dolphin blubber D4, JEH0504  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1502.48, 1.498  
Quantitative Ion m/z: 311  
Atlantic Lib: TCPM isomer 1 and isomer 2

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>  
Source: anthropogenic  
Identification: Authentic MS



m/z [Fragment]
311 [M-Cl] <sup>+</sup>
346 M <sup>+</sup>

Name: TCPM 3

Class: TCPM

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1519.97, 1.538

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>

Ecotype: coastal

Quantitative Ion m/z: 311

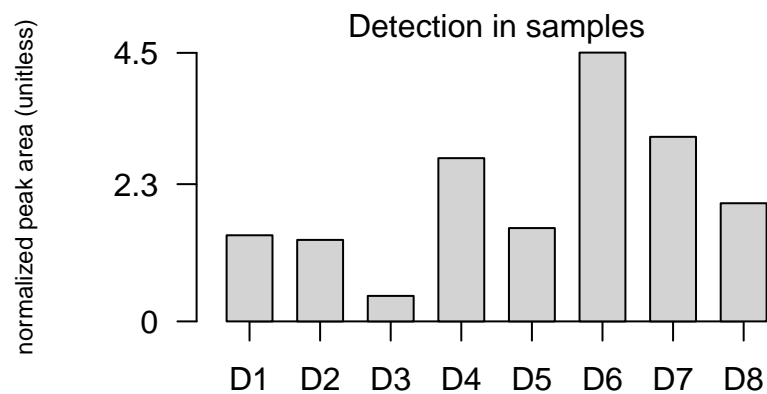
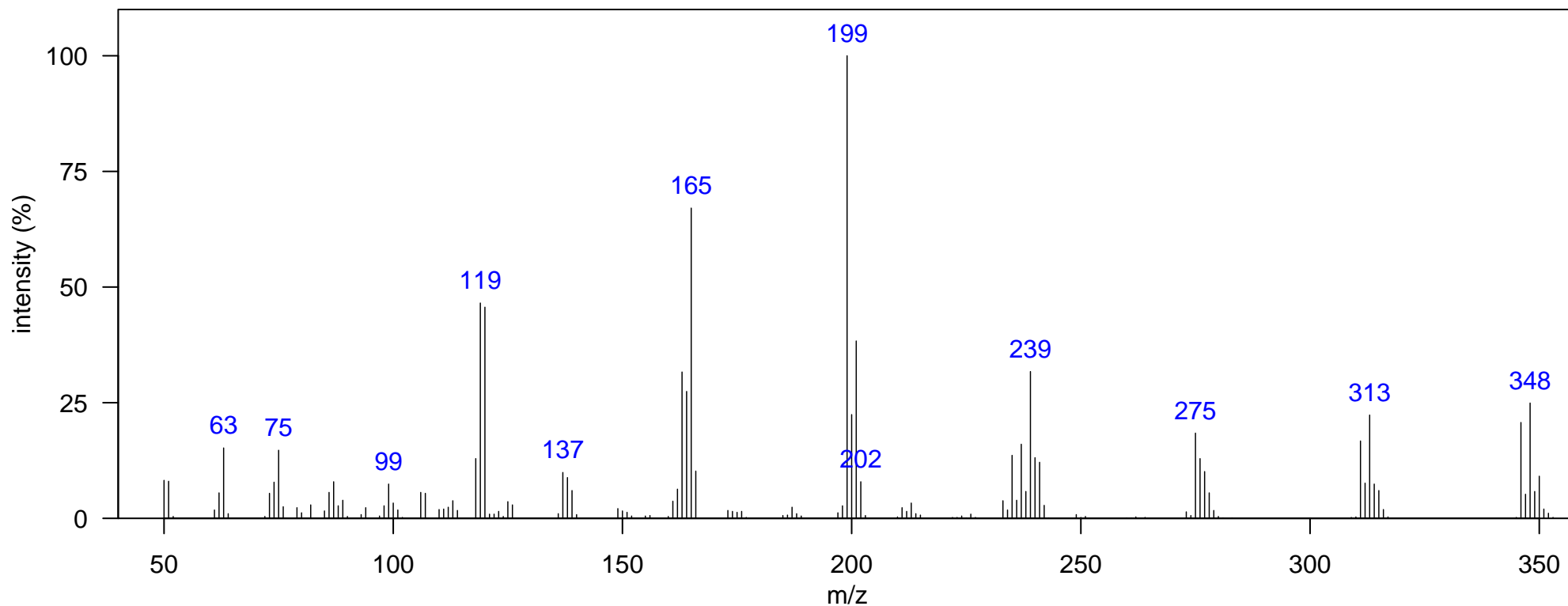
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: TCPM isomer 1 and isomer 2

Identification: Authentic MS

Comment:



m/z [Fragment]
275 [M-HCl <sub>2</sub> ] <sup>+</sup>
311 [M-Cl] <sup>+</sup>
346 M <sup>+</sup>

Name: TCPM 4

Class: TCPM

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1540.96, 1.544

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>

Ecotype: coastal

Quantitative Ion m/z: 311

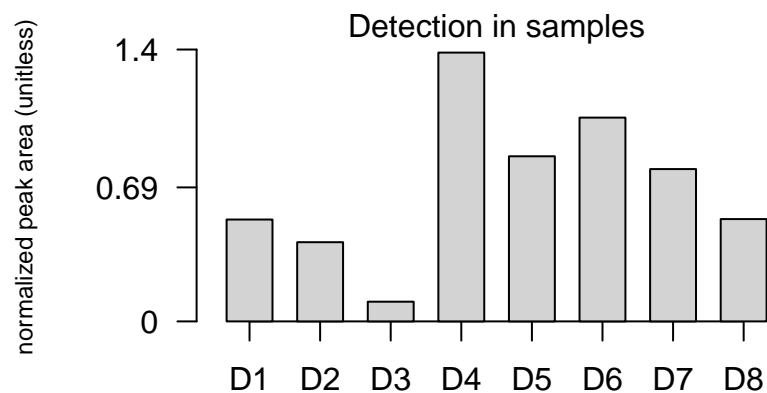
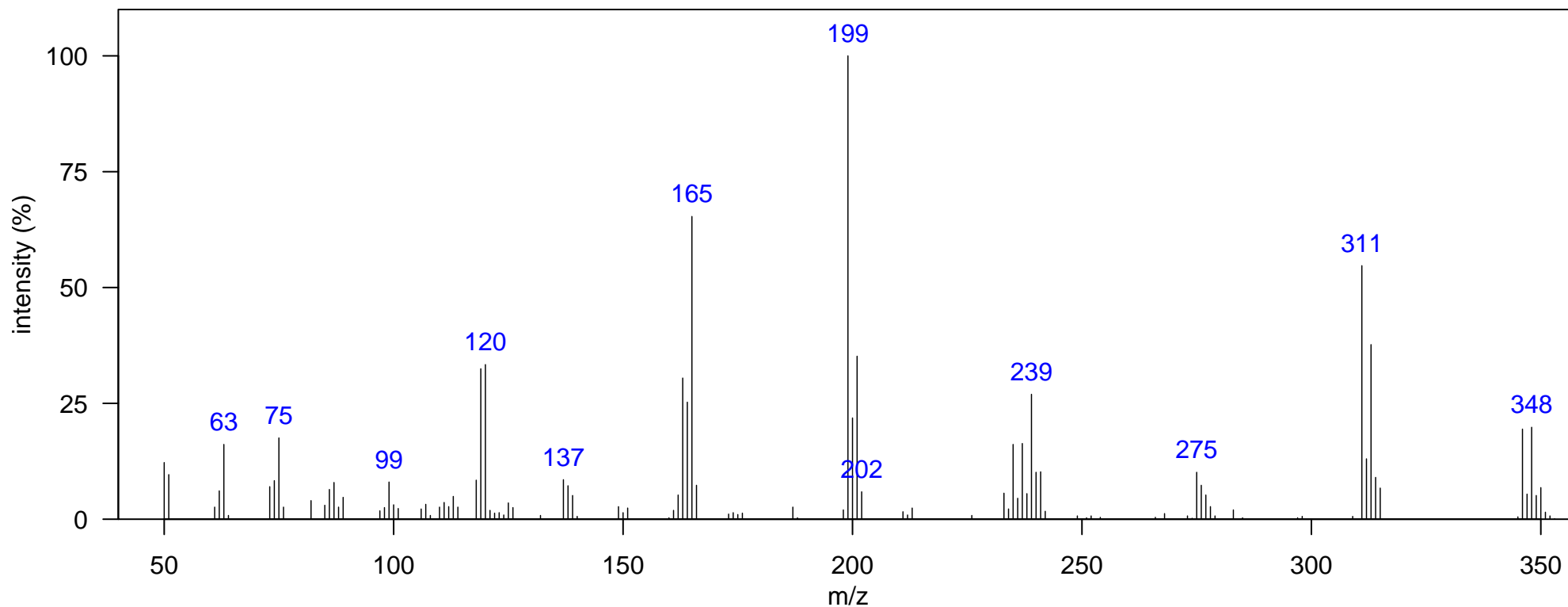
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: TCPM isomer 1 and isomer 2

Identification: Authentic MS

Comment:



m/z [Fragment]

275 [M-HCl<sub>2</sub>]<sup>+</sup>

311 [M-Cl]<sup>+</sup>

346 M<sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1558.45, 1.61

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>

Ecotype: coastal

Quantitative Ion m/z: 311

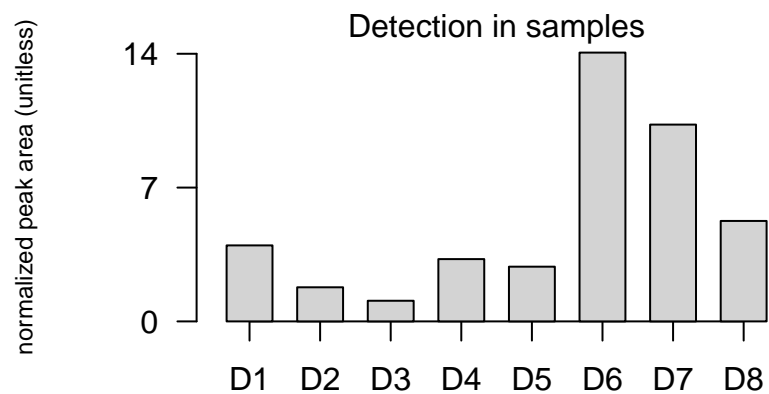
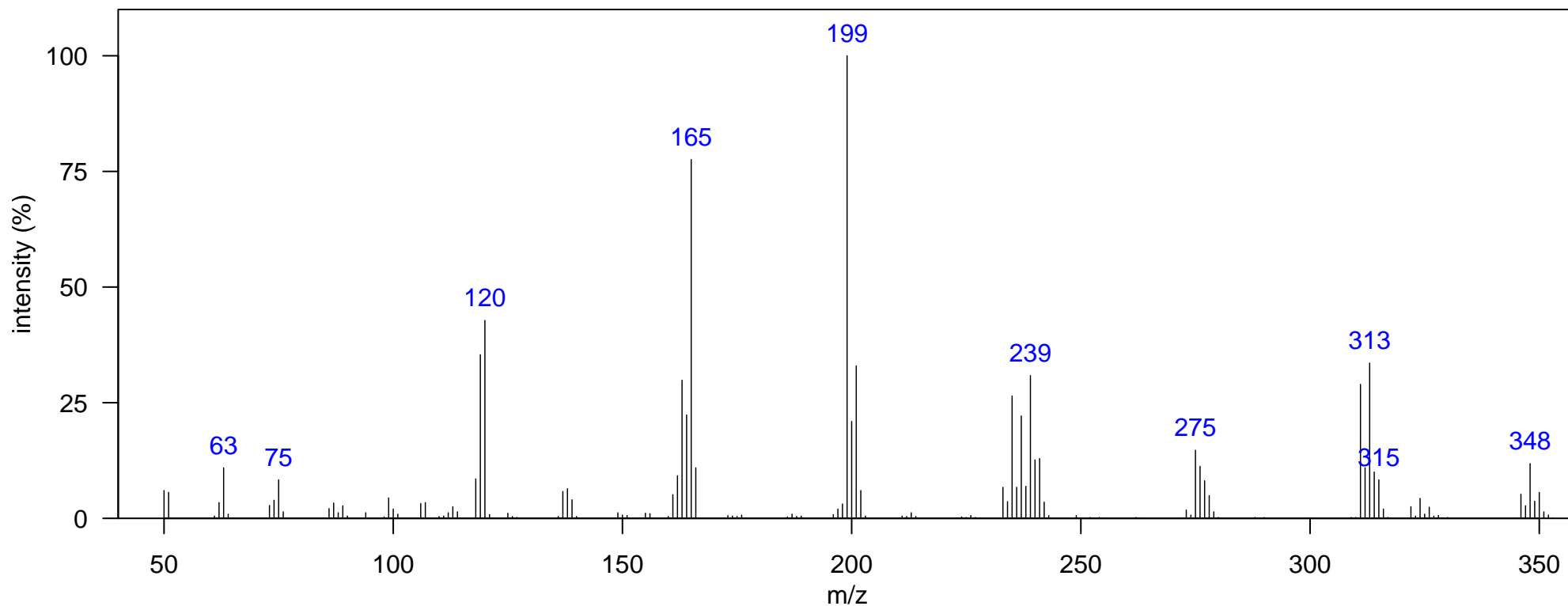
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: TCPM isomer 1 and isomer 2

Identification: Authentic MS

Comment:



m/z [Fragment]

275 [M-HCl<sub>2</sub>]<sup>+</sup>311 [M-Cl]<sup>+</sup>346 M<sup>+</sup>

Name: TCPM 6

Class: TCPM

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1579.44, 1.65

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>

Ecotype: coastal

Quantitative Ion m/z: 311

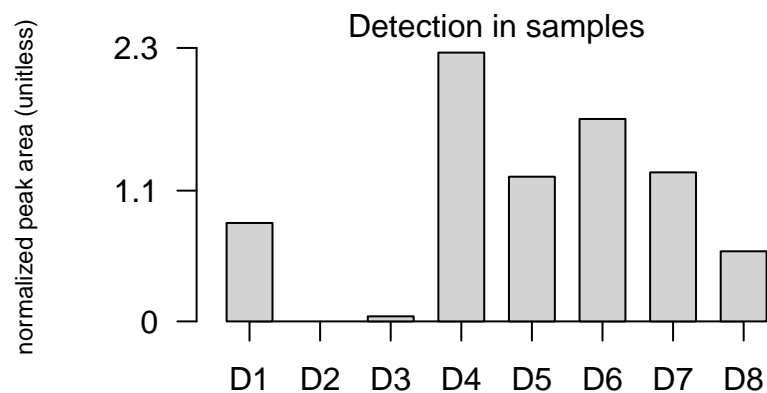
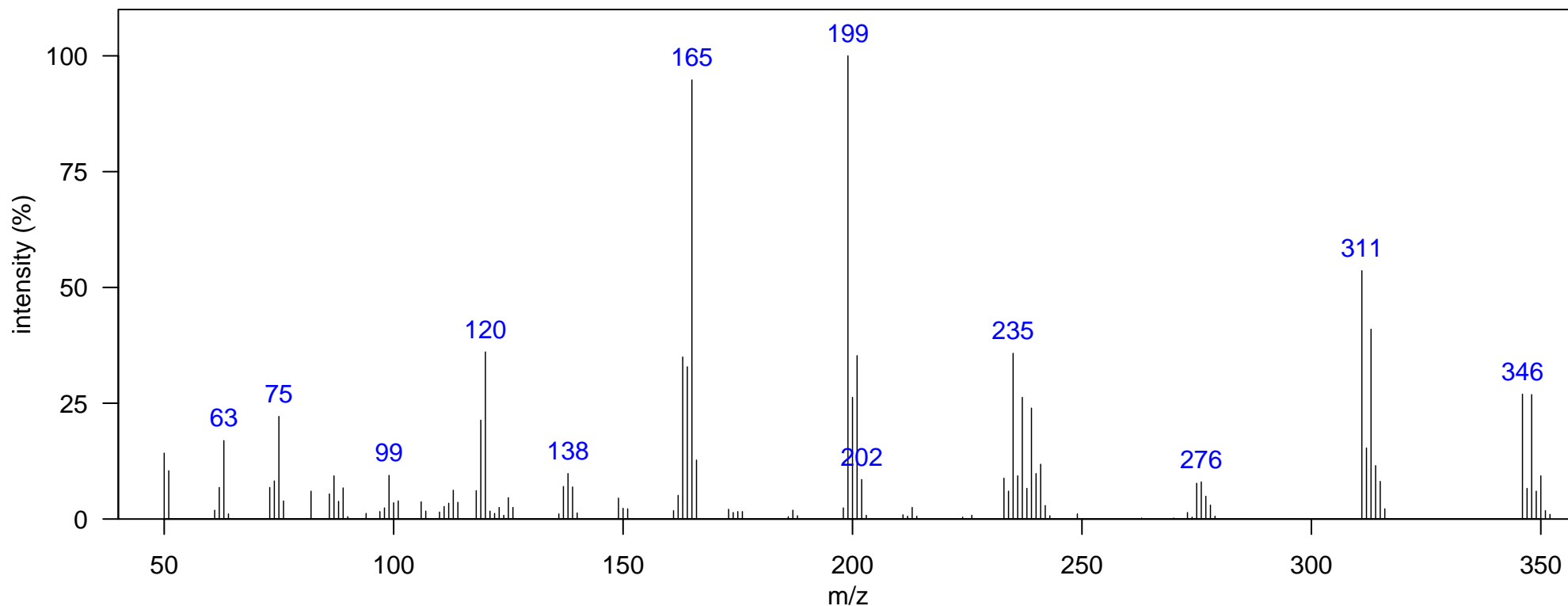
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: TCPM isomer 1 and isomer 2

Identification: Authentic MS

Comment:



m/z [Fragment]
275 [M-HCl2] <sup>+</sup>
311 [M-Cl] <sup>+</sup>
346 M <sup>+</sup>



Name: Tris(4-chlorophenyl)methane (TCPM)

Class: TCPM

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1596.93, 1.723

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>

Ecotype: coastal

Quantitative Ion m/z: 311

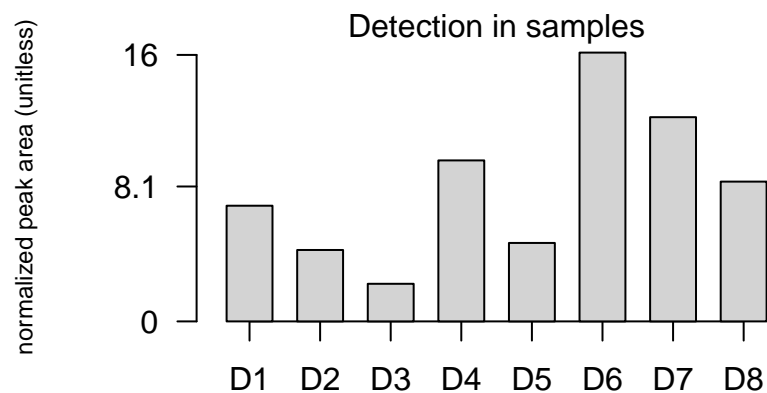
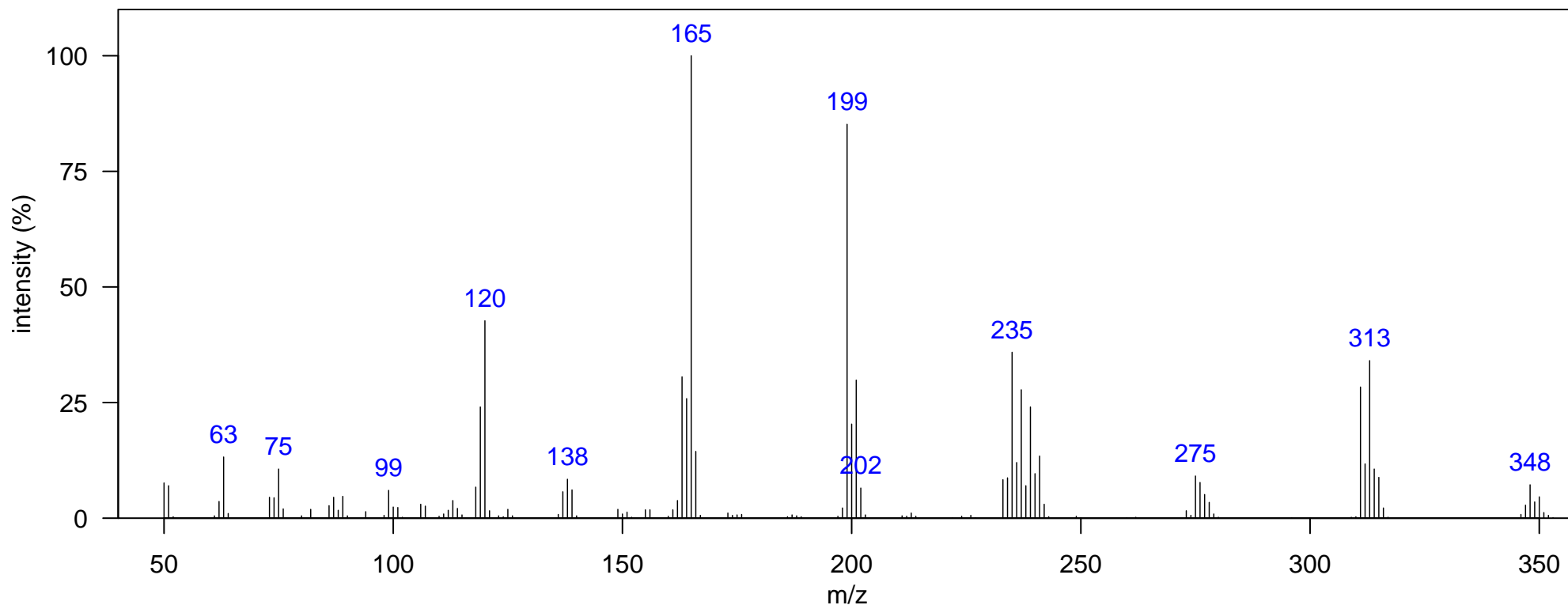
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: TCPM isomer 1 and isomer 2

Identification: Authentic MS RT

Comment:



m/z [Fragment]
275 [M-HCl2] <sup>+</sup>
311 [M-Cl] <sup>+</sup>
346 M <sup>+</sup>

Sample: SoCal dolphin blubber D8, KXD0003 1D RT, 2D RT (s): 1673.89, 2.112

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

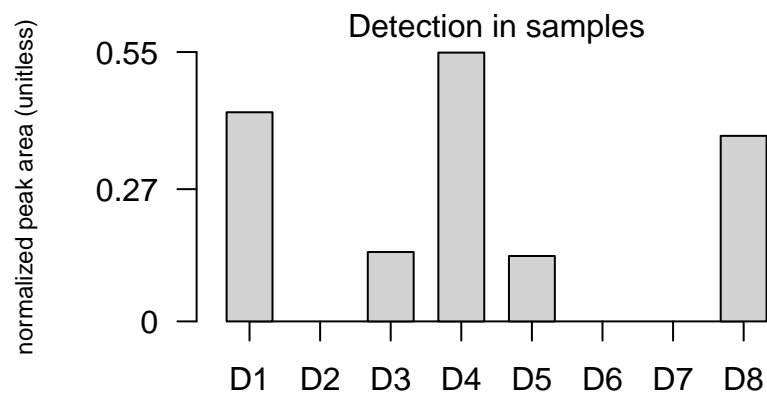
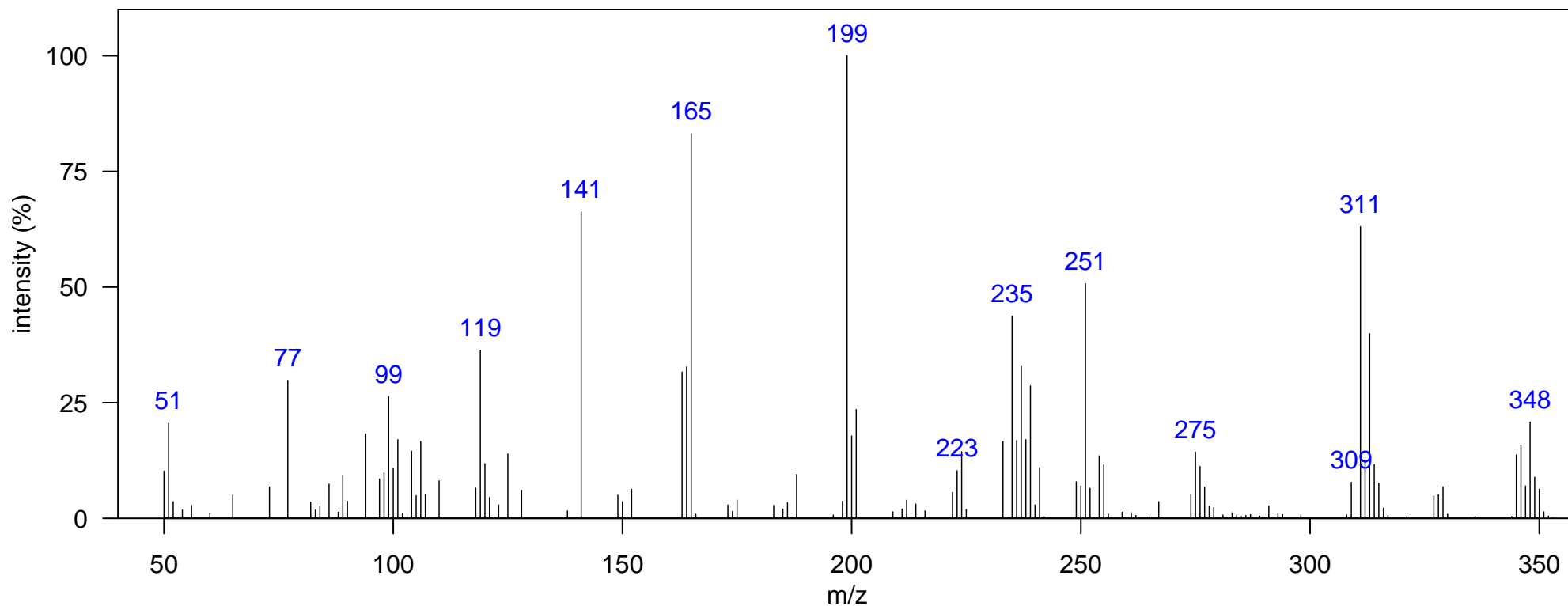
Quantitative Ion m/z: 311

Atlantic Lib: TCPM isomer 1 and isomer 2

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>

Source: anthropogenic

Identification: Authentic MS



m/z [Fragment]

275 [M-HCl<sub>2</sub>]<sup>+</sup>311 [M-Cl]<sup>+</sup>346 M<sup>+</sup>

Name: TCPM 4Cl 1

Class: TCPM

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1624.91, 1.789

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

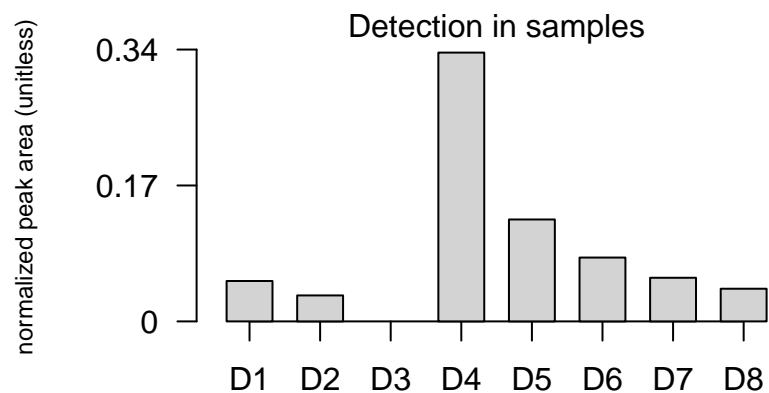
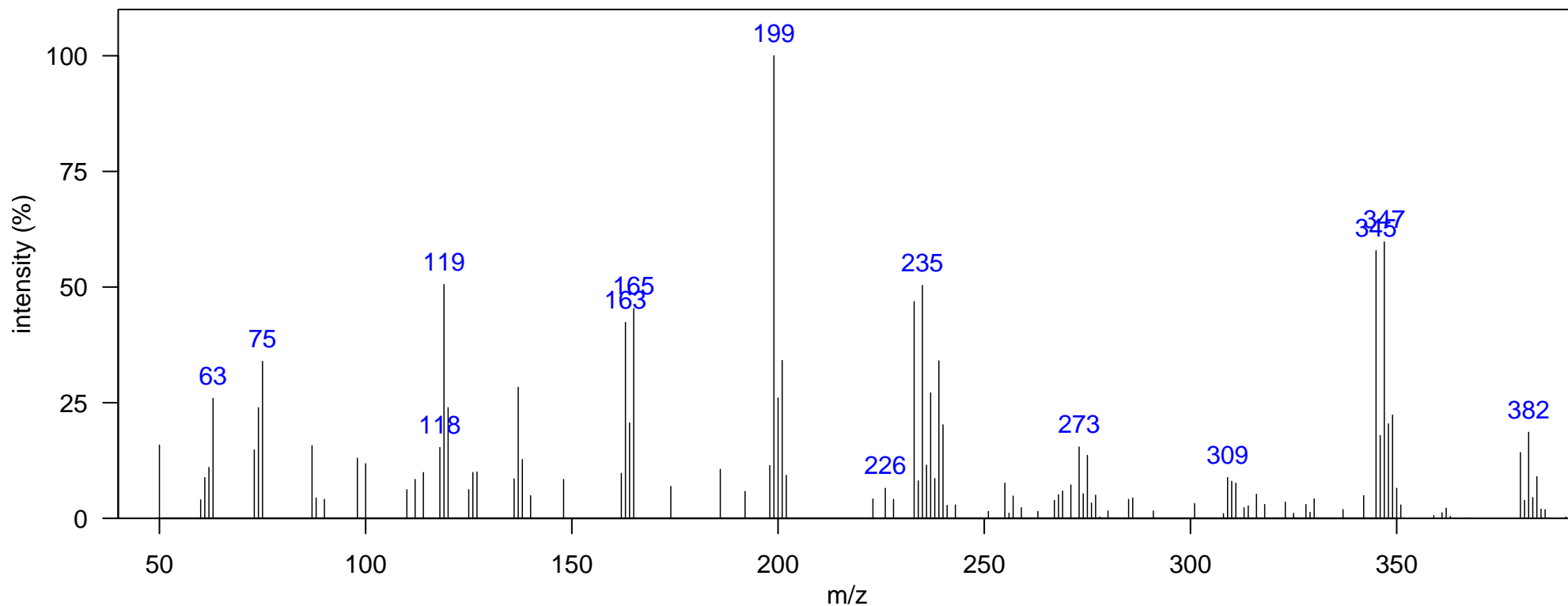
Quantitative Ion m/z: 347

Atlantic Lib:

Elemental Formula: C<sub>19</sub>H<sub>12</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
309 [M-HCl2]+
345 [M-Cl]+
380 M+

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1652.9, 1.987

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

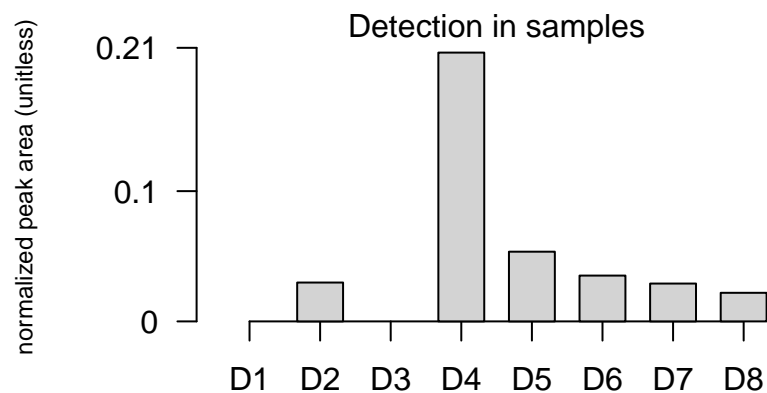
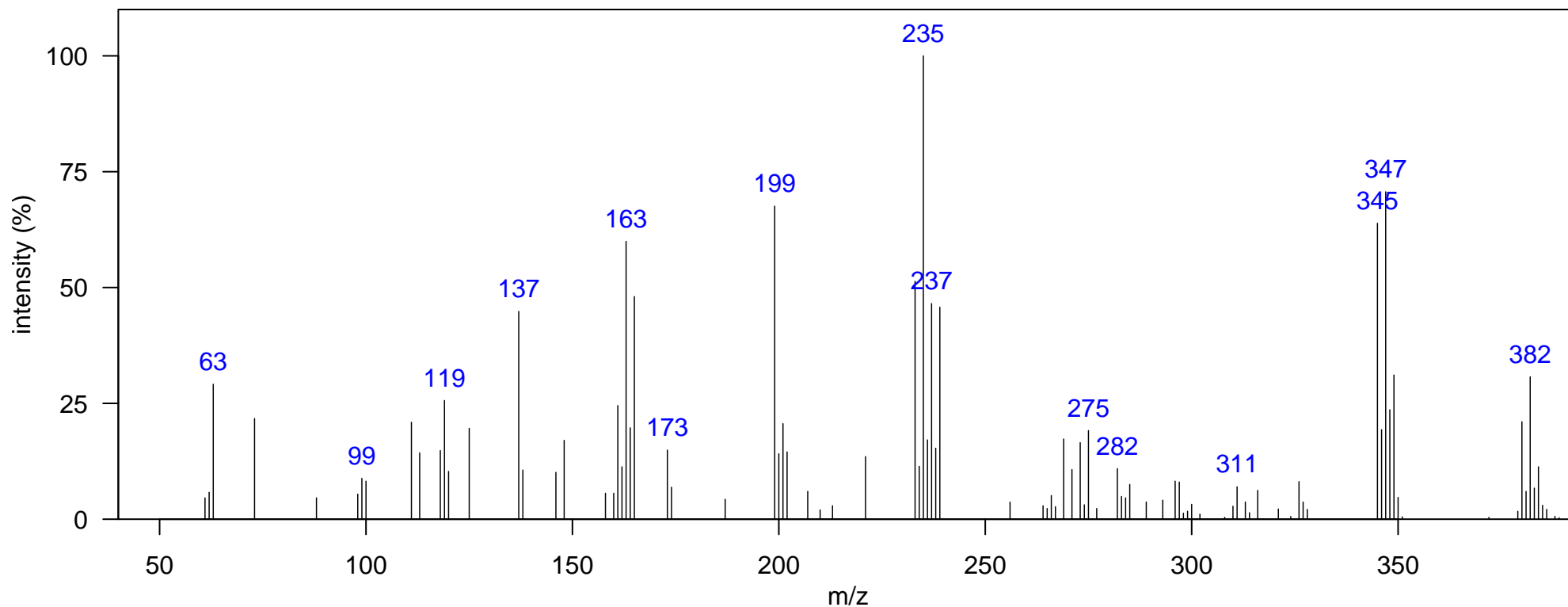
Quantitative Ion m/z: 347

Atlantic Lib:

Elemental Formula: C<sub>19</sub>H<sub>12</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Manual-Congener Group



## m/z [Fragment]

309 [M-HCl<sub>2</sub>]<sup>+</sup>345 [M-Cl]<sup>+</sup>380 M<sup>+</sup>

Name: TCPM 4Cl 3

Class: TCPM

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1705.37, 1.954

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

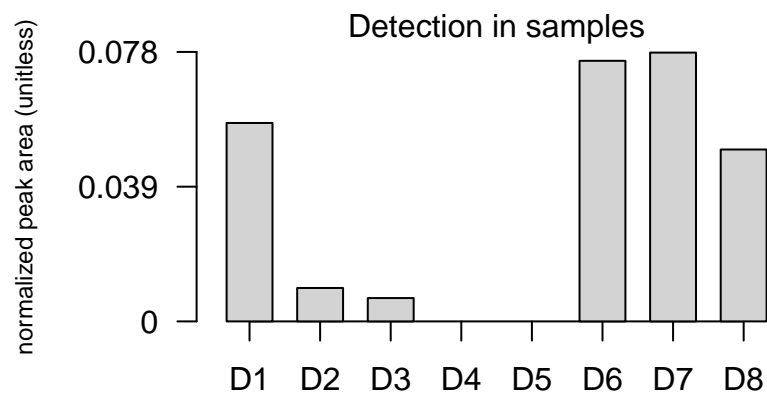
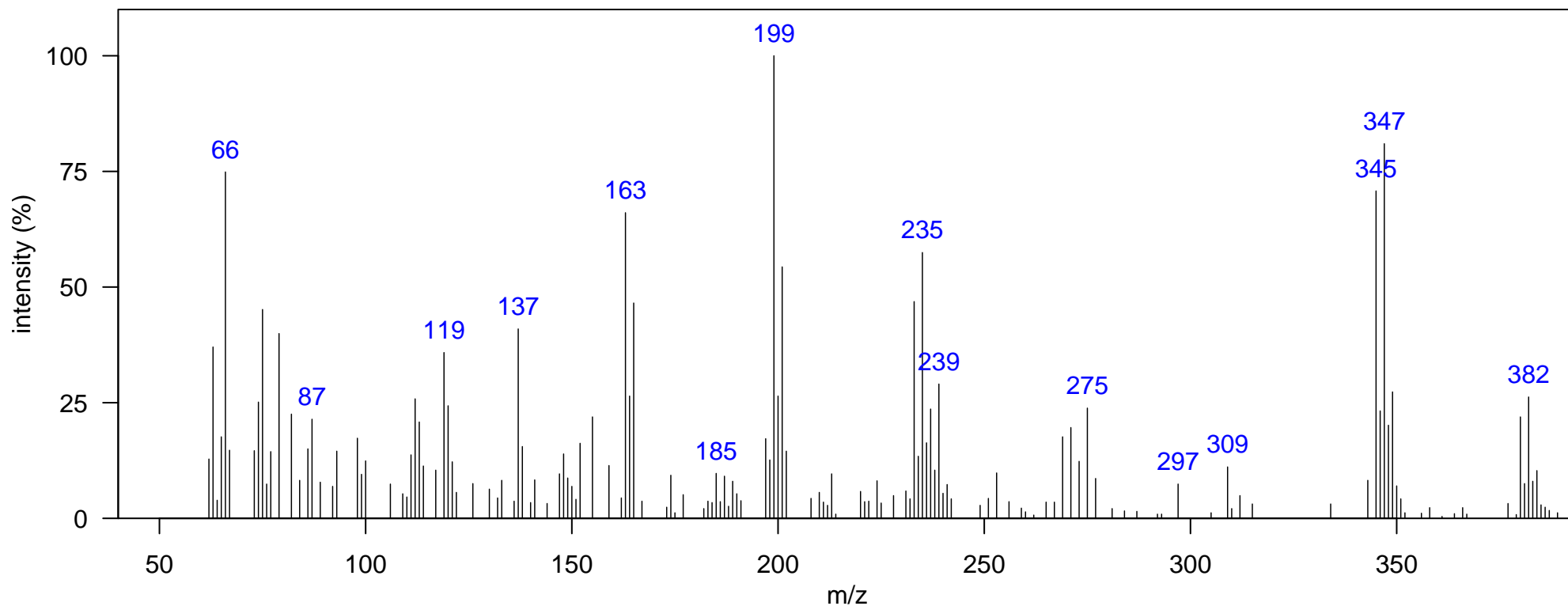
Quantitative Ion m/z: 347

Atlantic Lib:

Elemental Formula: C<sub>19</sub>H<sub>12</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
309 [M-HCl2] <sup>+</sup>
345 [M-Cl] <sup>+</sup>
380 M <sup>+</sup>

Class: TCPMOH

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>O

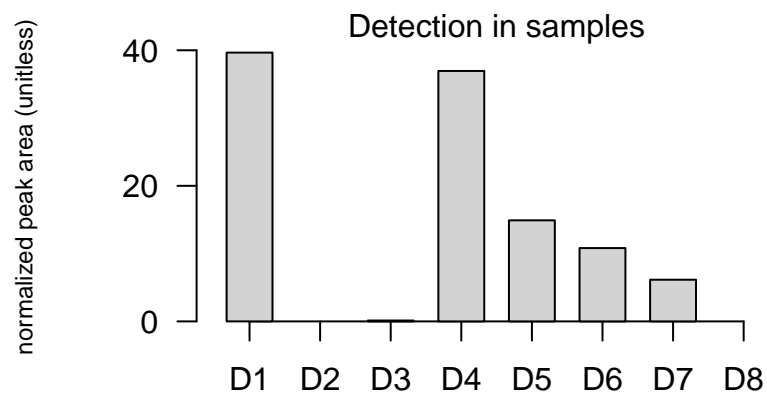
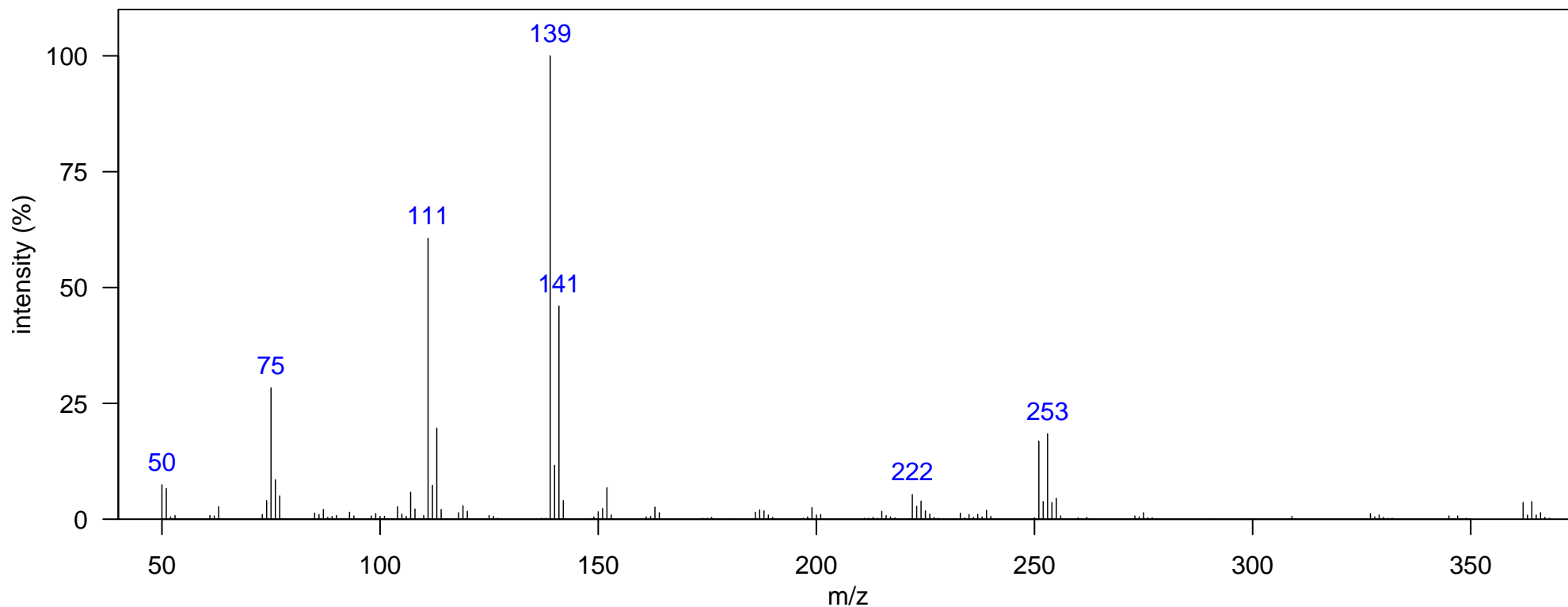
Quantitative Ion m/z: 139

Source: anthropogenic

Atlantic Lib:

Identification: Authentic MS RT

Comment:



m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1285.61, 1.208

Elemental Formula: C<sub>8</sub>H<sub>7</sub>Cl<sub>5</sub>

Ecotype: coastal

Quantitative Ion m/z: 245

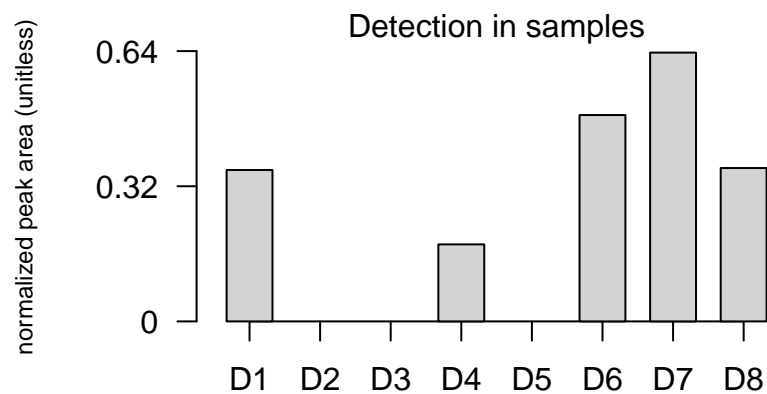
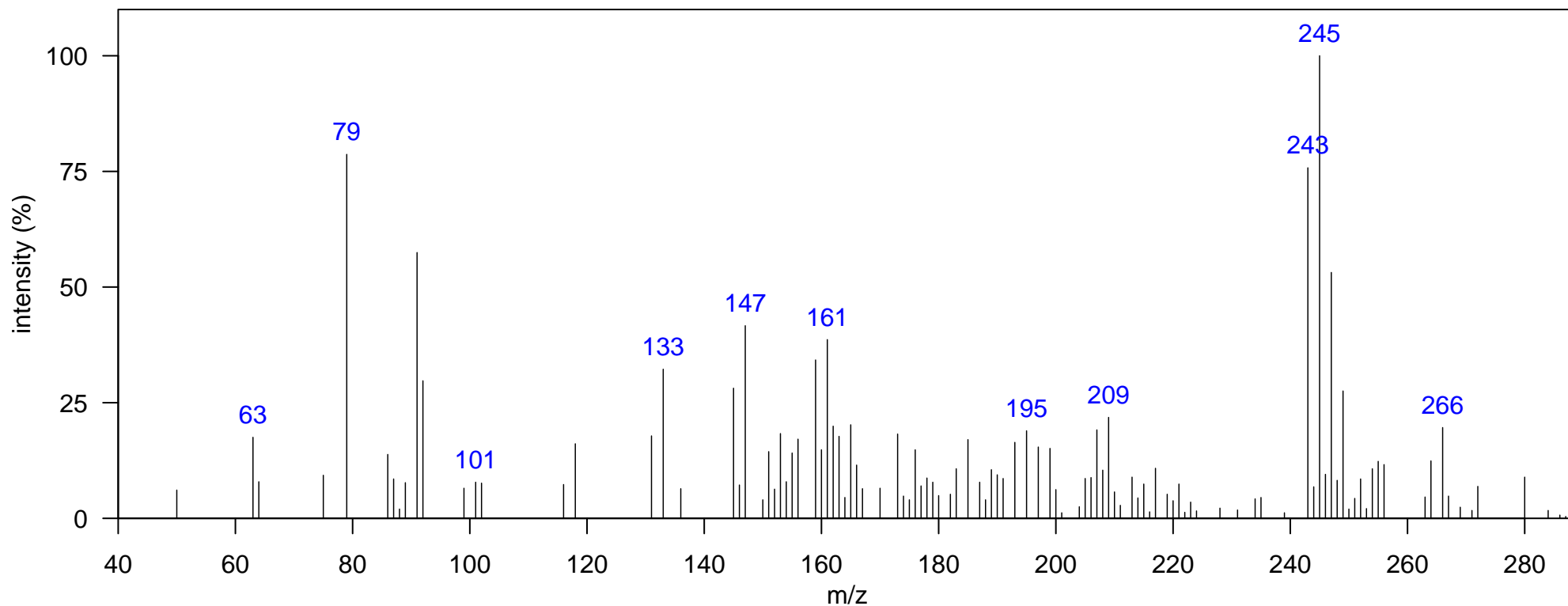
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Manual

Comment:



m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1422.03, 1.452

Elemental Formula: C<sub>8</sub>H<sub>7</sub>Cl<sub>5</sub>

Ecotype: coastal

Quantitative Ion m/z: 245

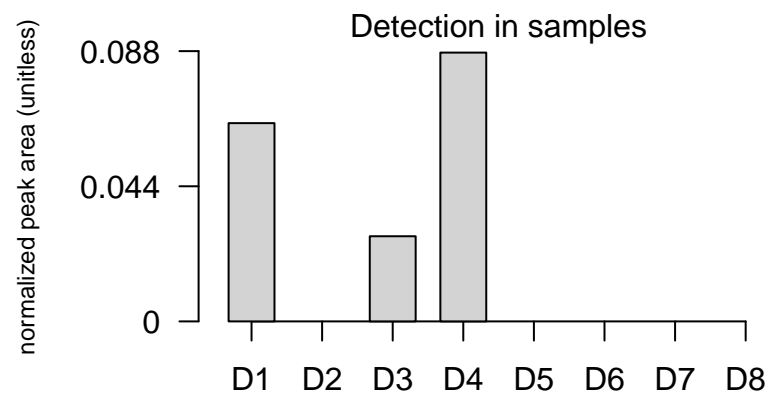
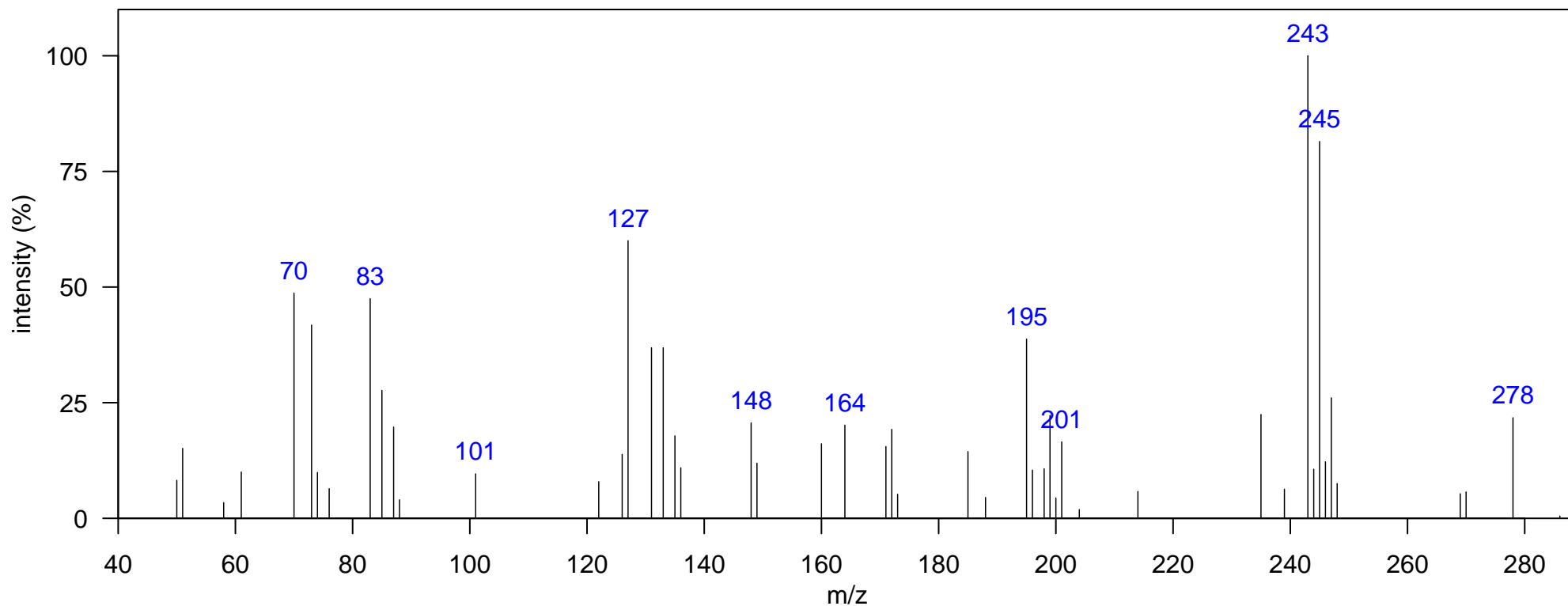
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: toxaphene 1 &amp; 2

Identification: Authentic MS RT

Comment:



m/z [Fragment]



Class: Toxaphene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1495.49, 1.063

Elemental Formula: C<sub>8</sub>H<sub>7</sub>Cl<sub>5</sub>

Ecotype: coastal

Quantitative Ion m/z: 245

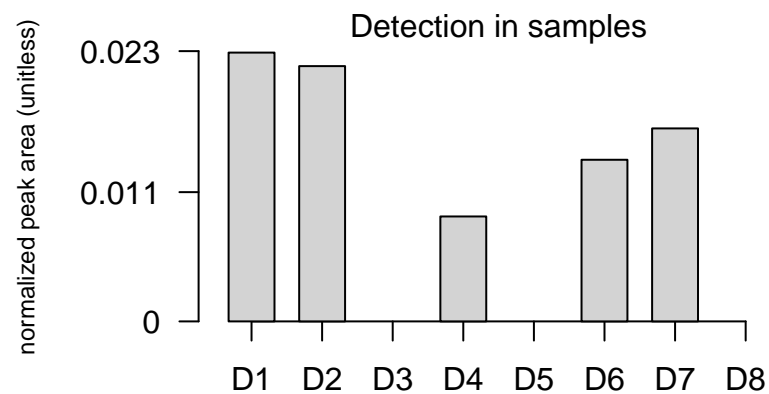
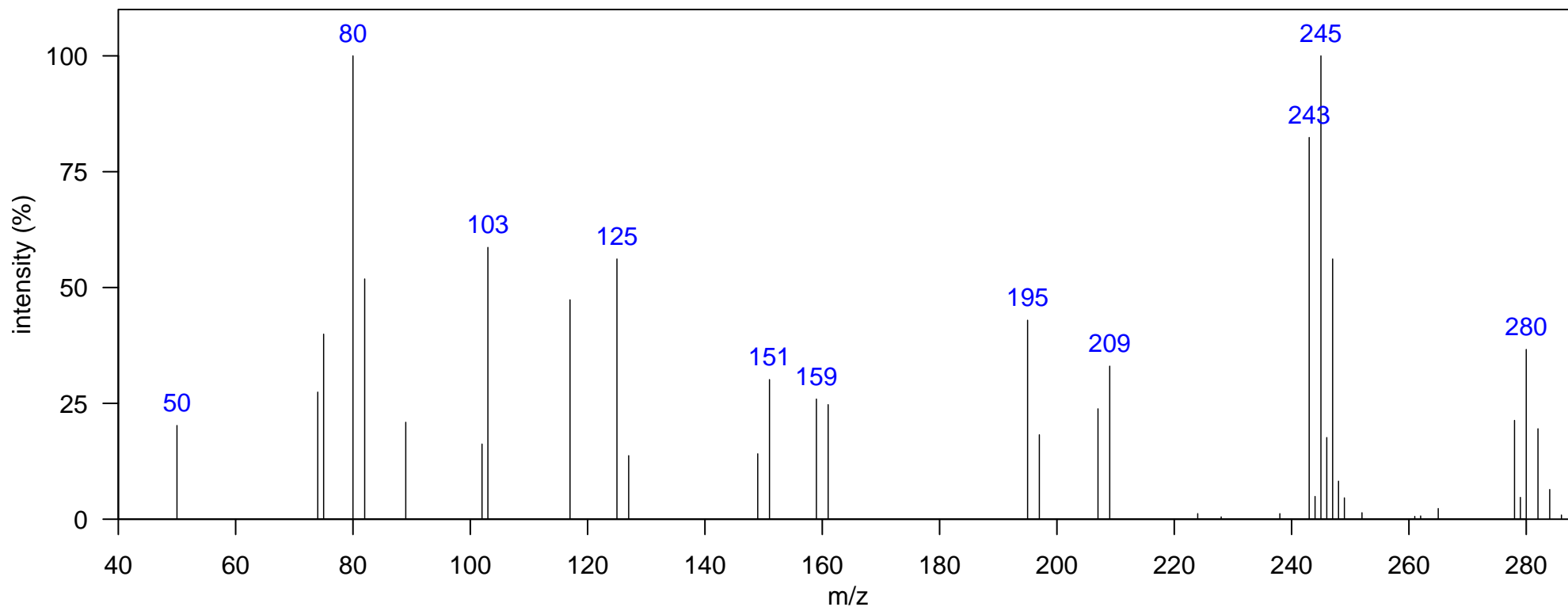
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: toxaphene 1 &amp; 2

Identification: Authentic MS RT

Comment:



m/z [Fragment]

Name: toxaphene 4

Class: Toxaphene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1533.97, 1.096

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

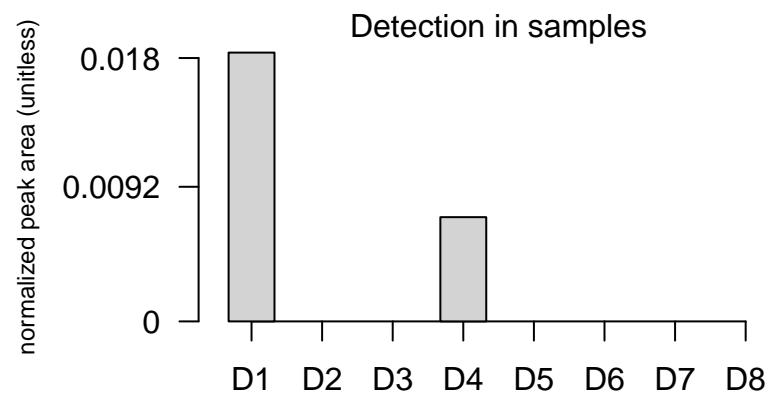
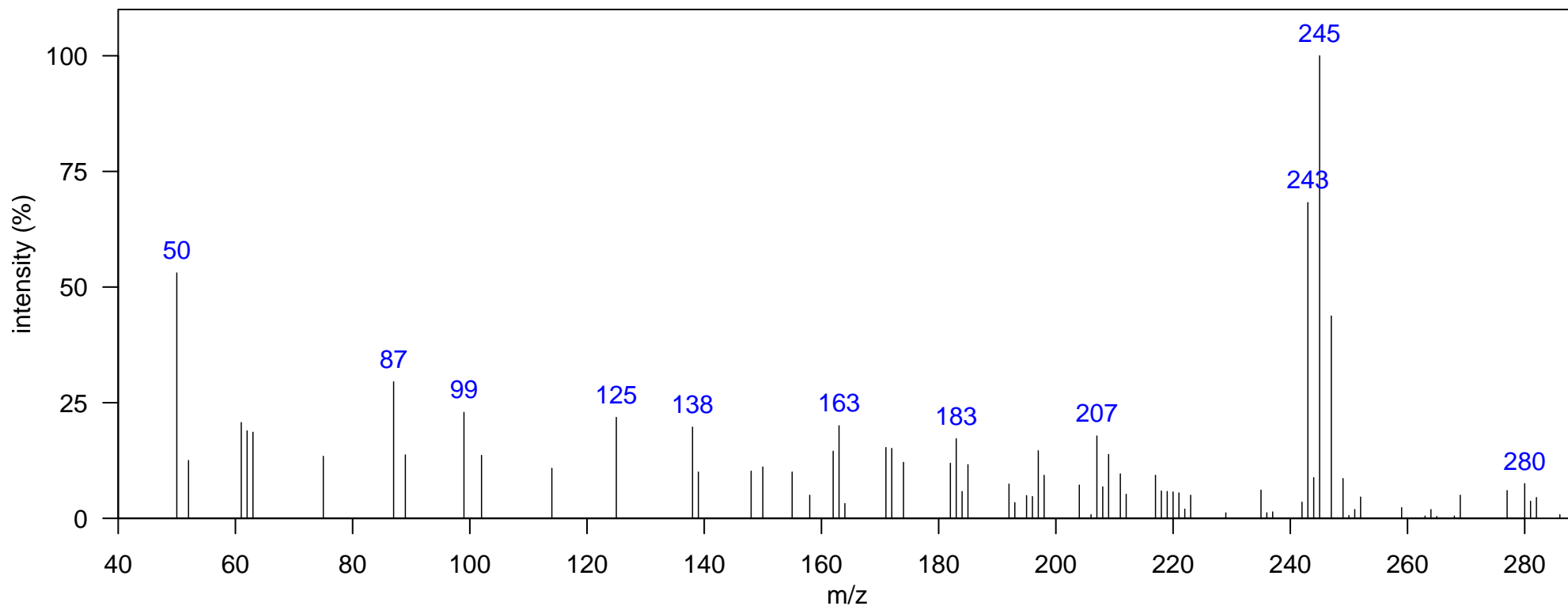
Quantitative Ion m/z: 245

Atlantic Lib: toxaphene 1 & 2

Elemental Formula: C<sub>8</sub>H<sub>7</sub>Cl<sub>5</sub>

Source: anthropogenic

Identification: Authentic MS RT



m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D6, DSJ2155 1D RT, 2D RT (s): 1257.62, 1.234

Elemental Formula: C<sub>10</sub>H<sub>10</sub>Cl<sub>6</sub>

Ecotype: offshore

Quantitative Ion m/z: 293

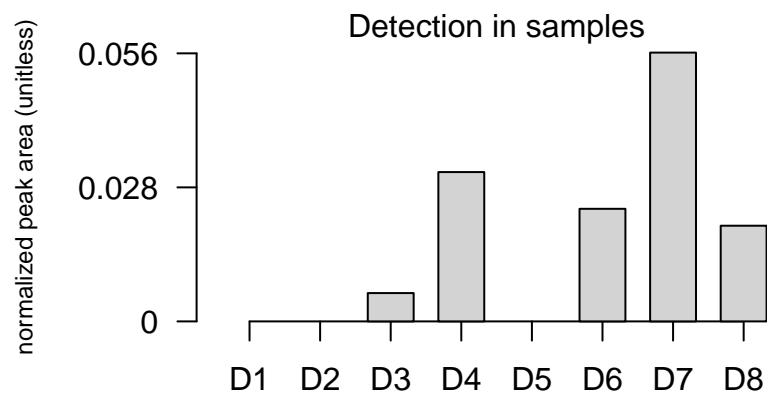
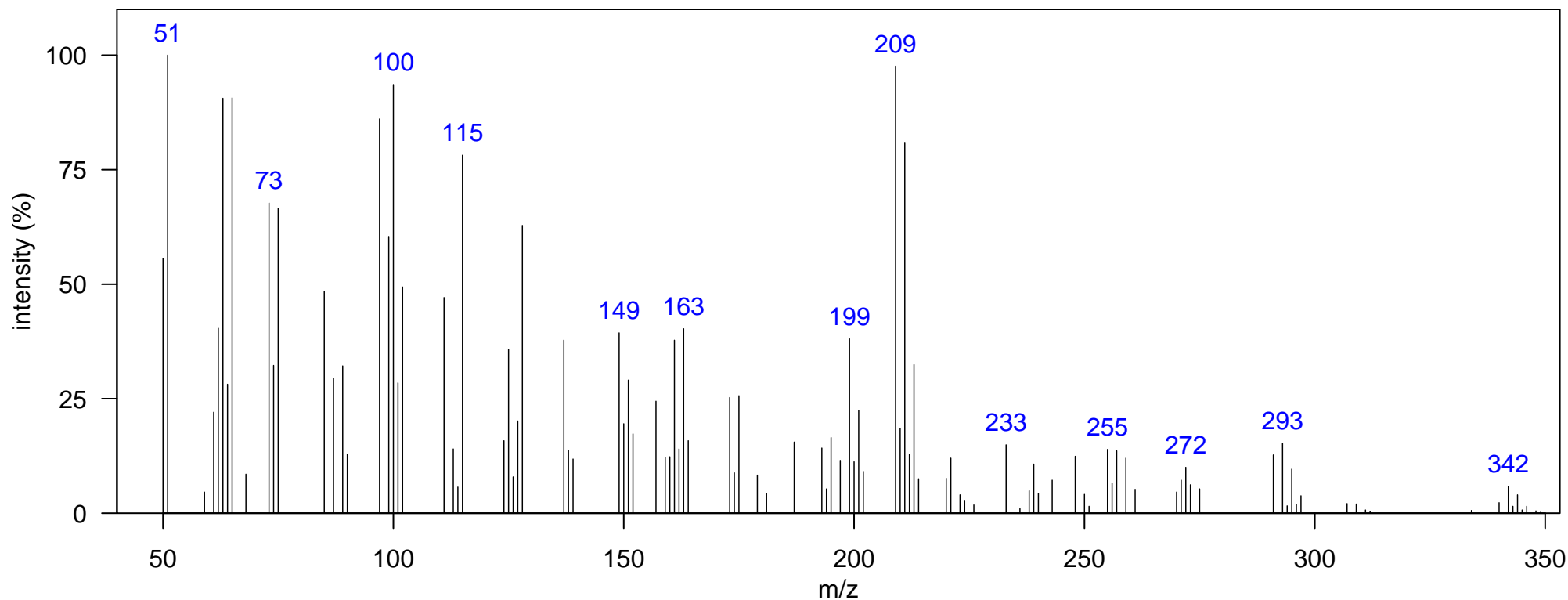
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Manual

Comment:



m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1275.11, 1.261

Elemental Formula: C<sub>10</sub>H<sub>10</sub>Cl<sub>6</sub>

Ecotype: offshore

Quantitative Ion m/z: 245

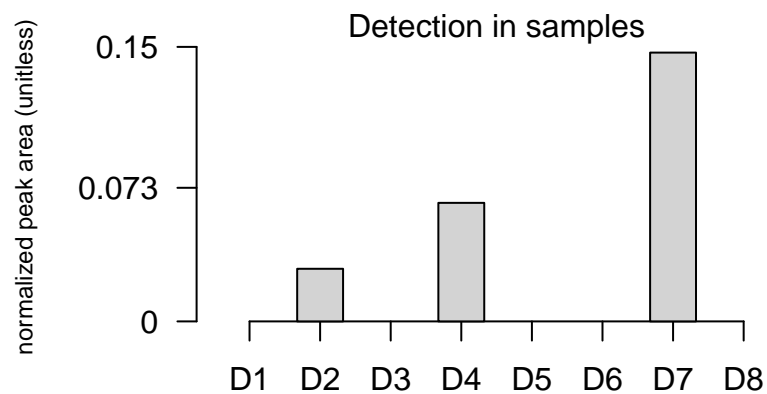
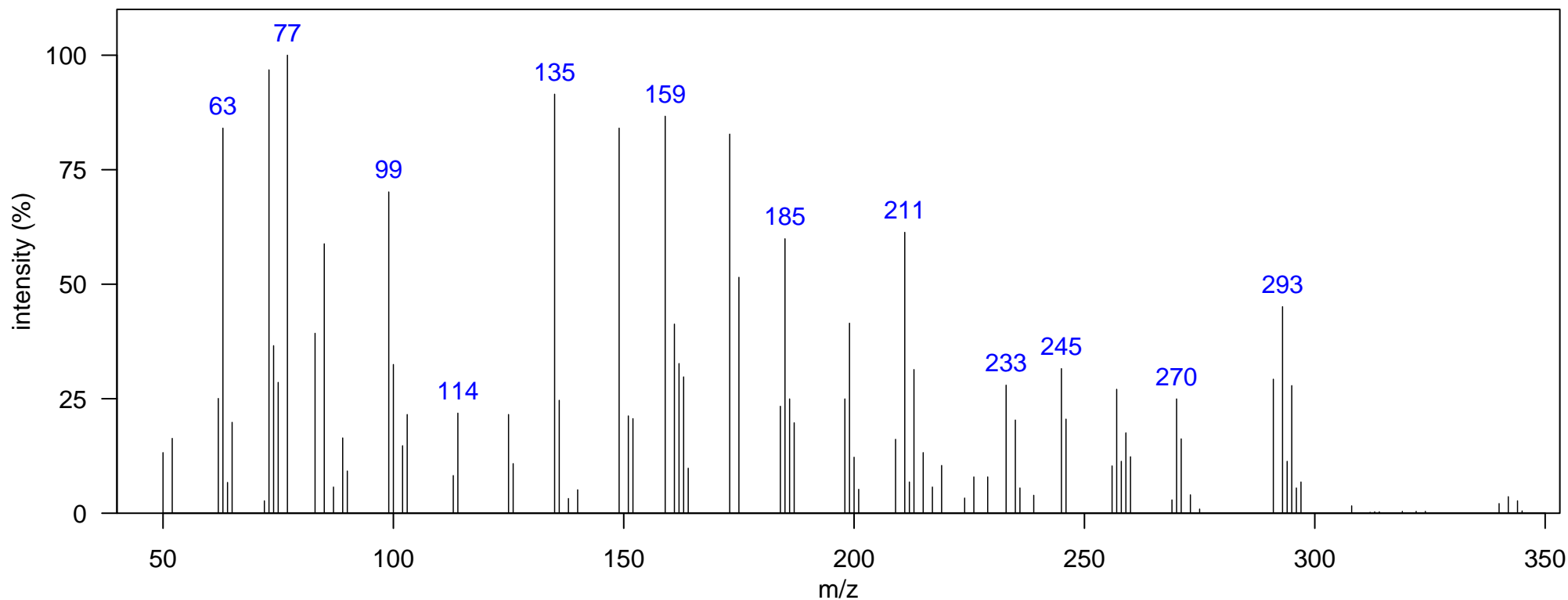
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Manual

Comment:



m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1404.54, 1.023

Elemental Formula: C<sub>10</sub>H<sub>10</sub>Cl<sub>6</sub>

Ecotype: offshore

Quantitative Ion m/z: 271

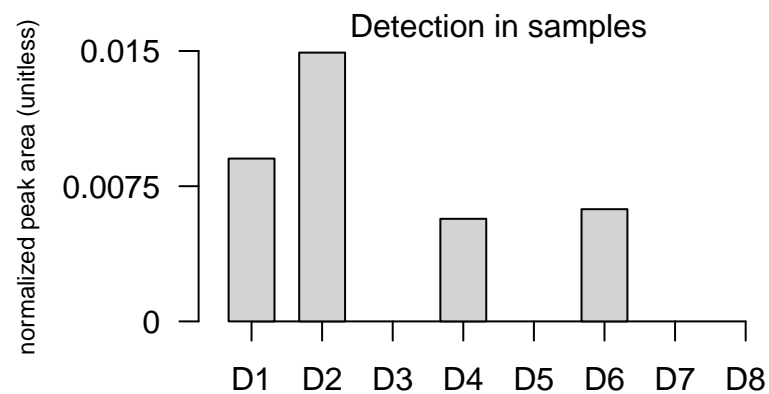
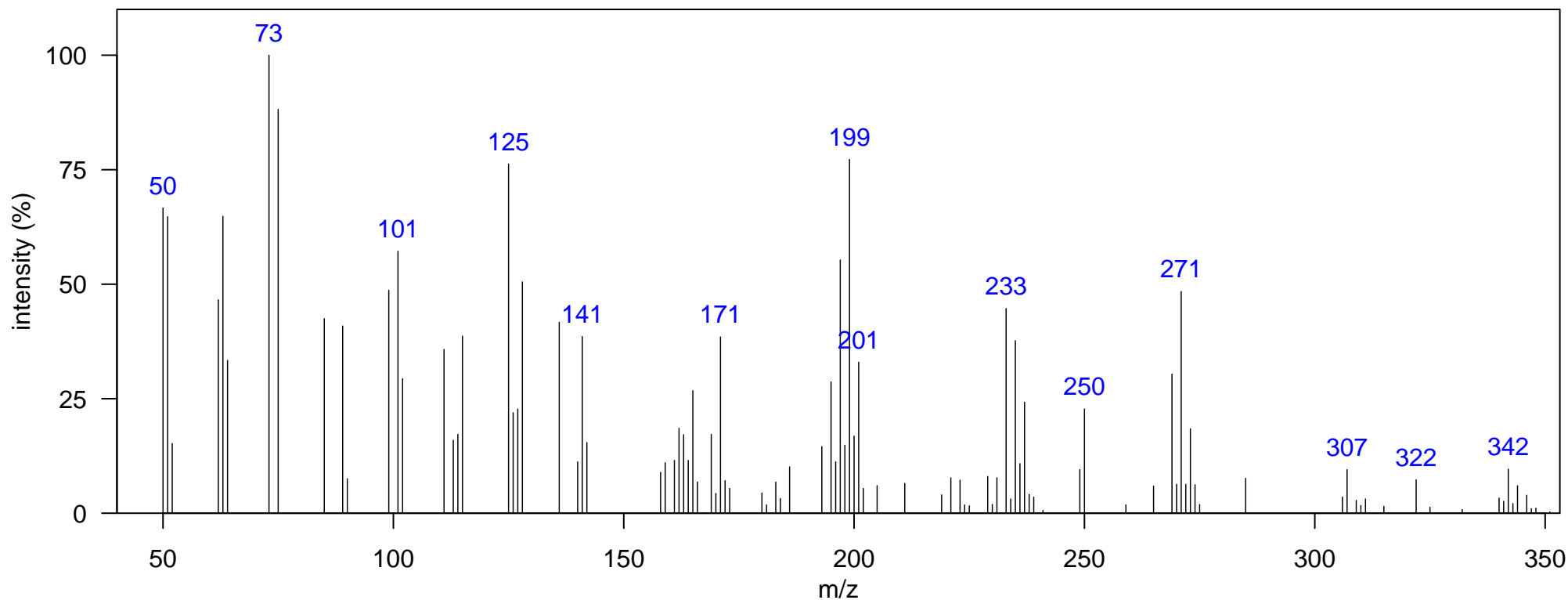
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Manual

Comment:



m/z [Fragment]

Name: toxaphene 8

Class: Toxaphene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1429.03, 1.432

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

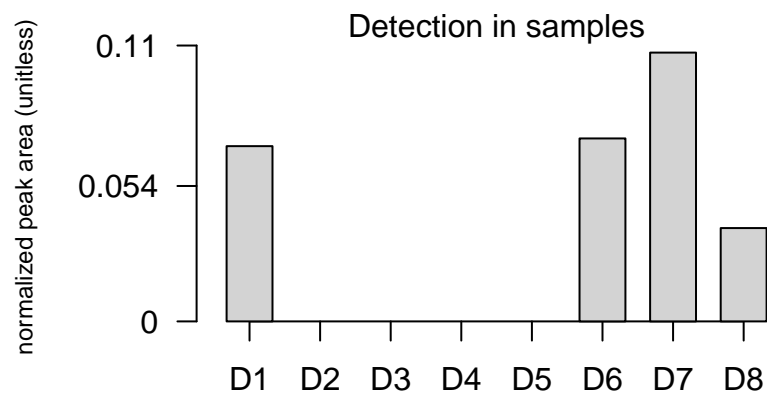
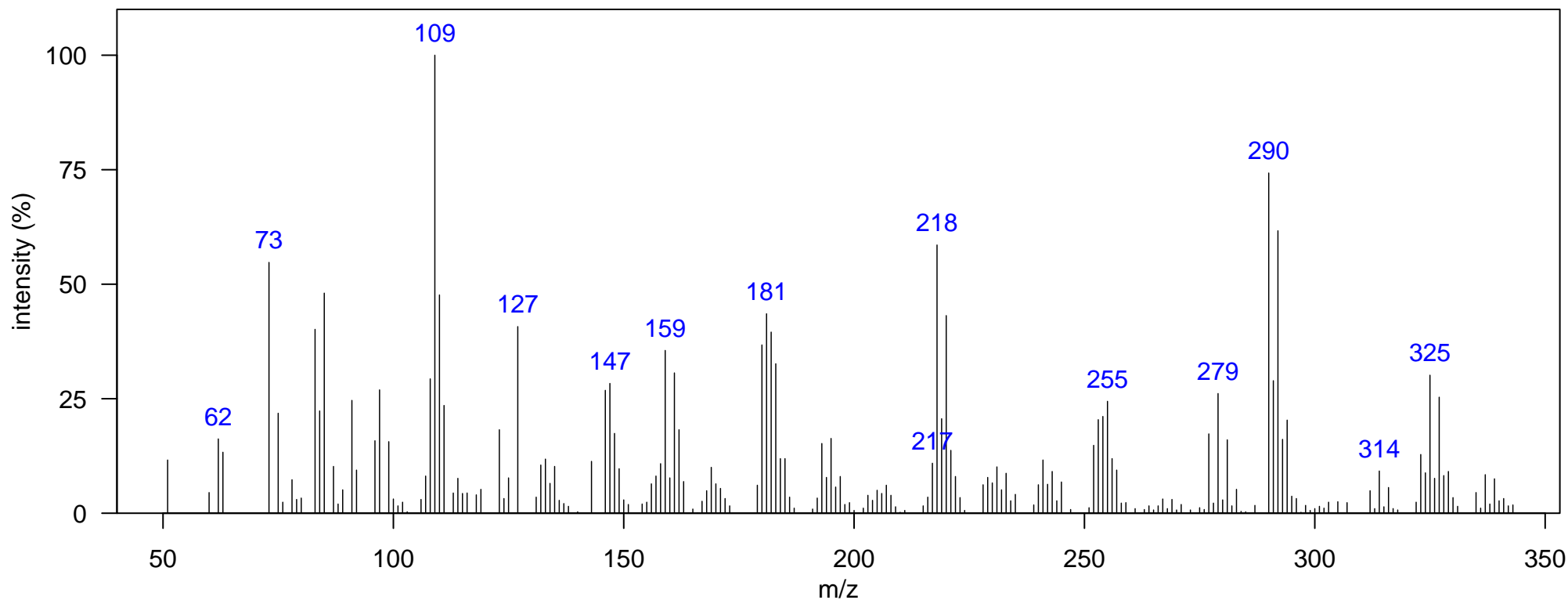
Quantitative Ion m/z: 279

Atlantic Lib: toxaphene 4

Elemental Formula: C<sub>10</sub>H<sub>10</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual



m/z [Fragment]
290 PCB Interference
325 PCB Interference

Class: Toxaphene

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1401.04, 1.445

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>6</sub>O

Ecotype: offshore

Quantitative Ion m/z: 289

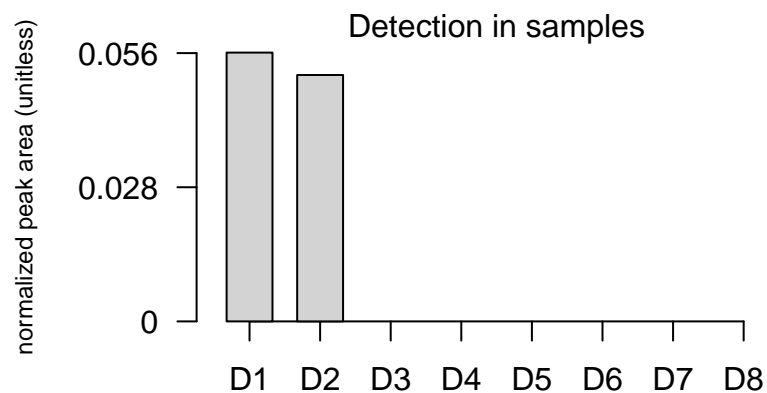
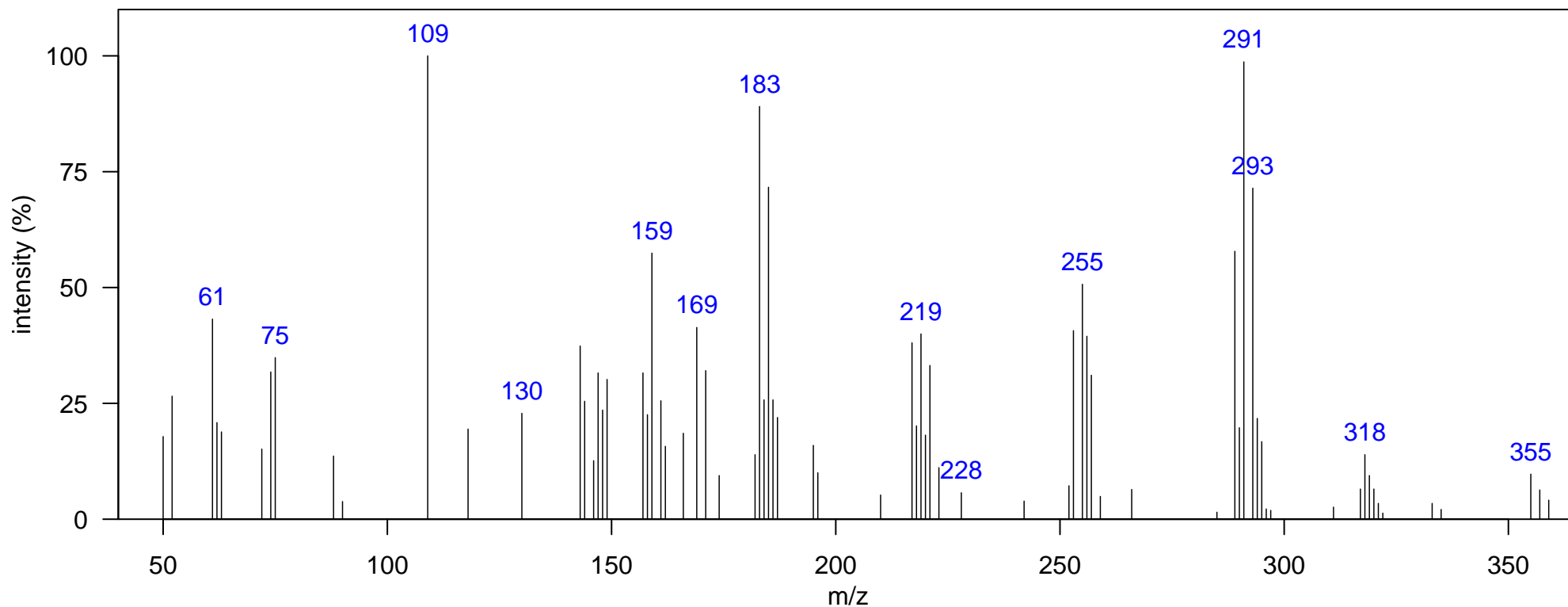
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Reference Database MS

Comment: nist identification



m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1404.54, 1.267

Elemental Formula: C10H9Cl7

Ecotype: offshore

Quantitative Ion m/z: 329

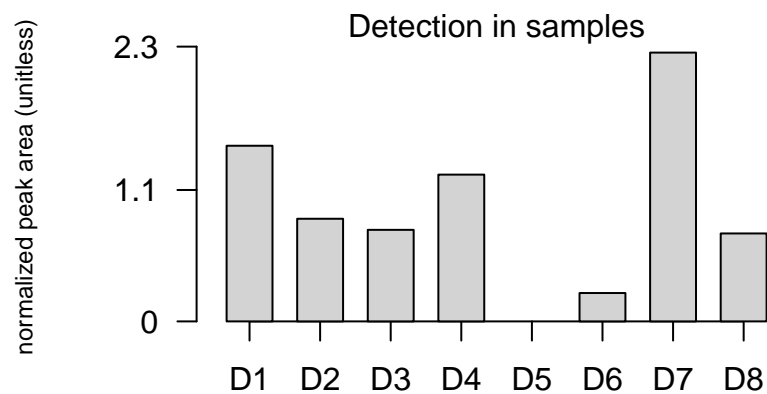
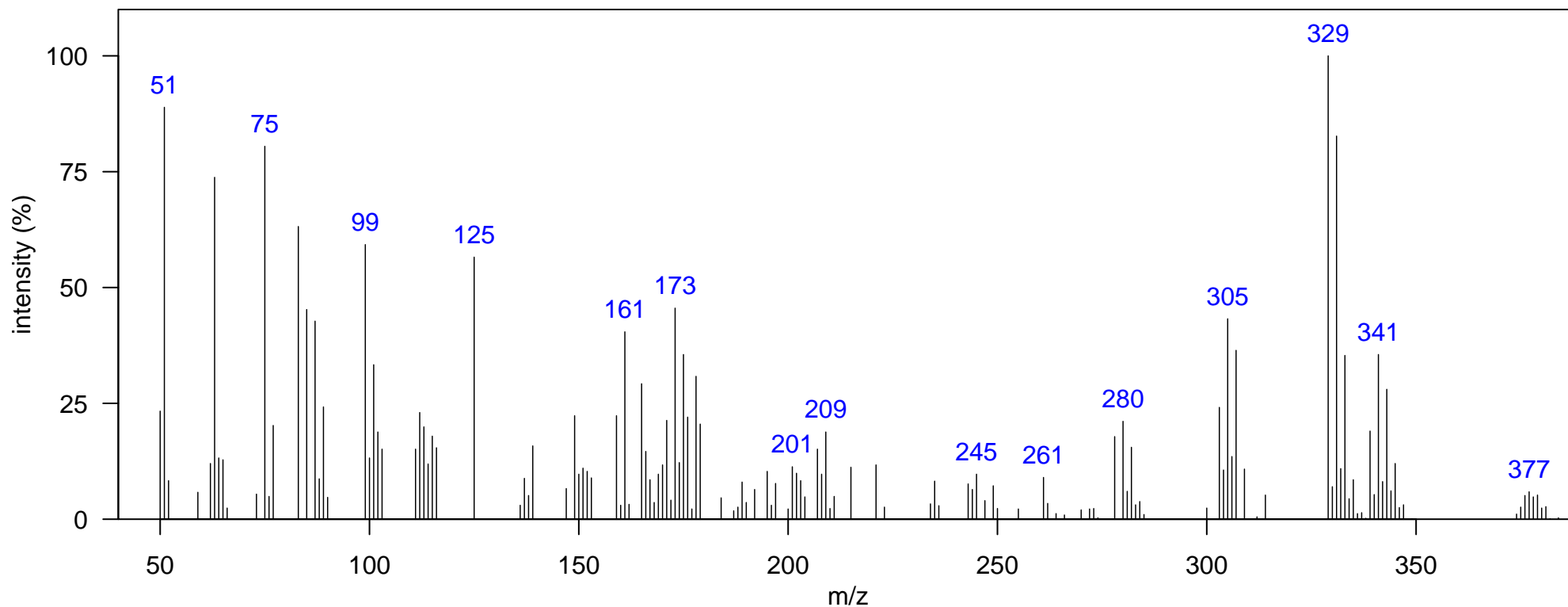
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: toxaphene 6

Identification: Authentic MS RT

Comment:



m/z [Fragment]



Class: Toxaphene

Elemental Formula: C10H9Cl7

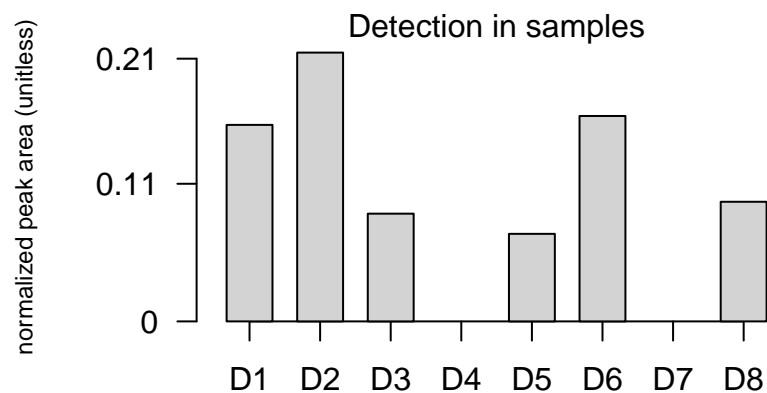
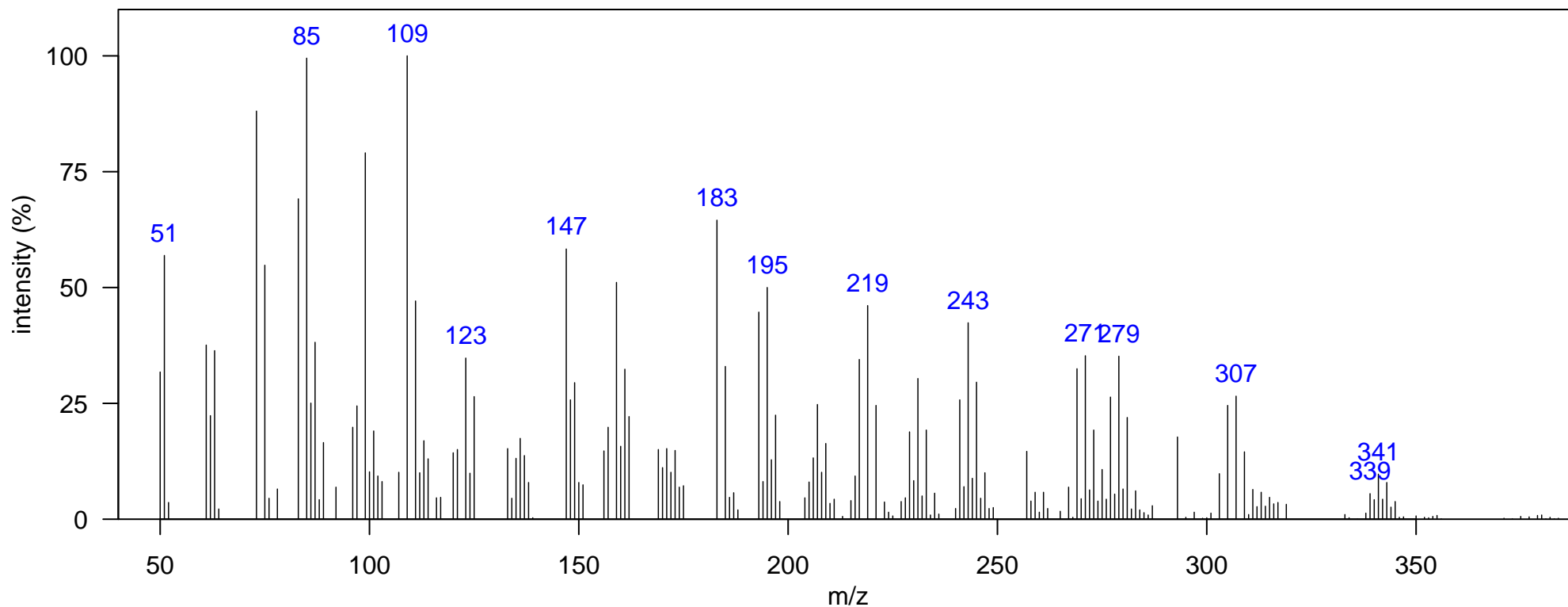
Quantitative Ion m/z: 279

Source: anthropogenic

Atlantic Lib: toxaphene 7

Identification: Authentic MS RT

Comment:



m/z [Fragment]

Name: toxaphene 12

Class: Toxaphene

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1401.04, 1.3

Ecotype: offshore

Quantitative Ion m/z: 245

Instrument: GCxGC-TOF, EI, 70 eV

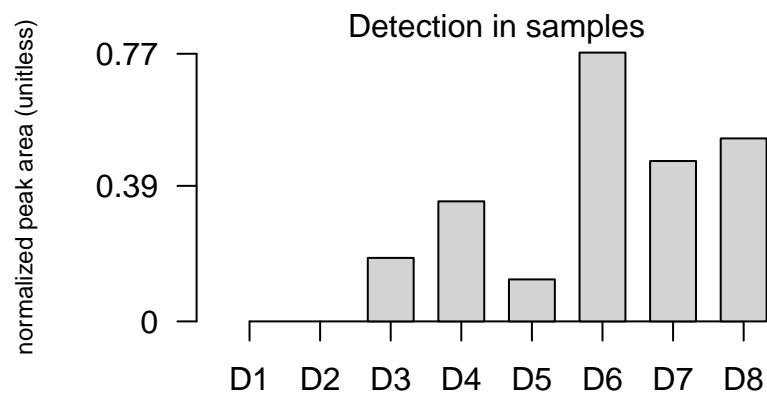
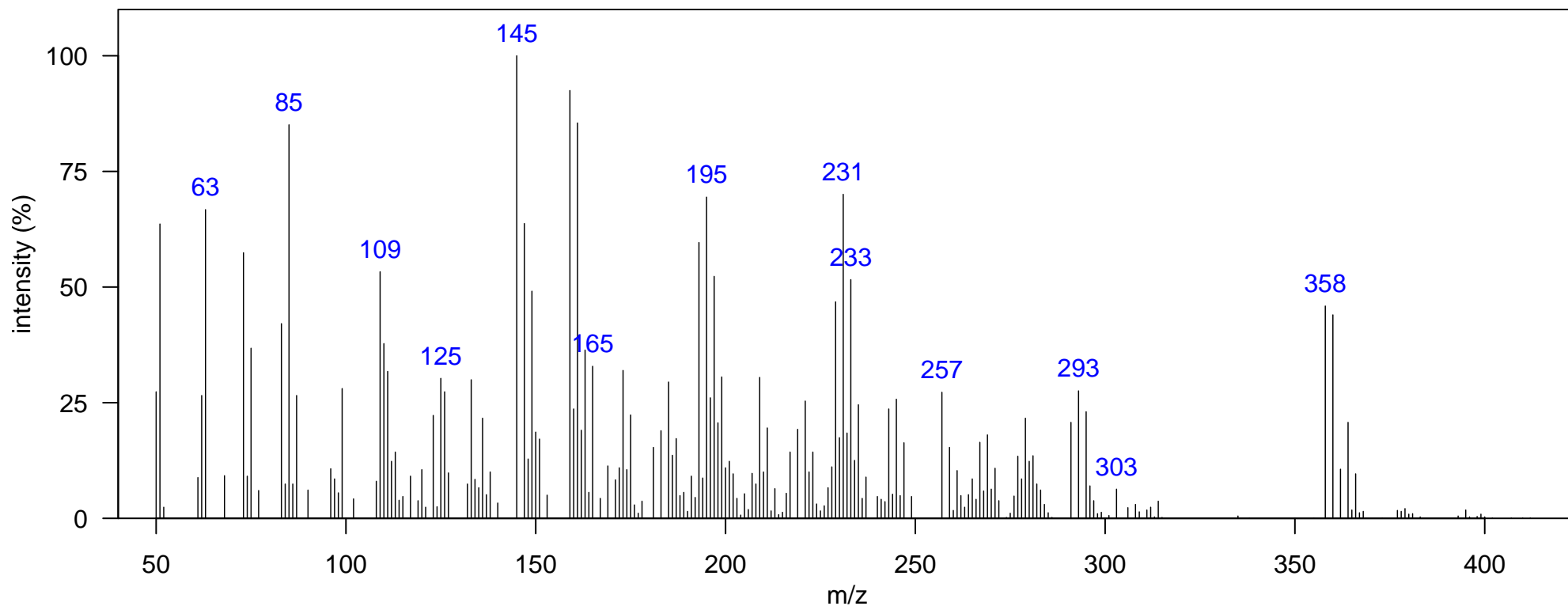
Atlantic Lib: toxaphene 4

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>8</sub>

Source: anthropogenic

Comment:

Identification: Manual



m/z [Fragment]
360 PCB Interference

Class: Toxaphene

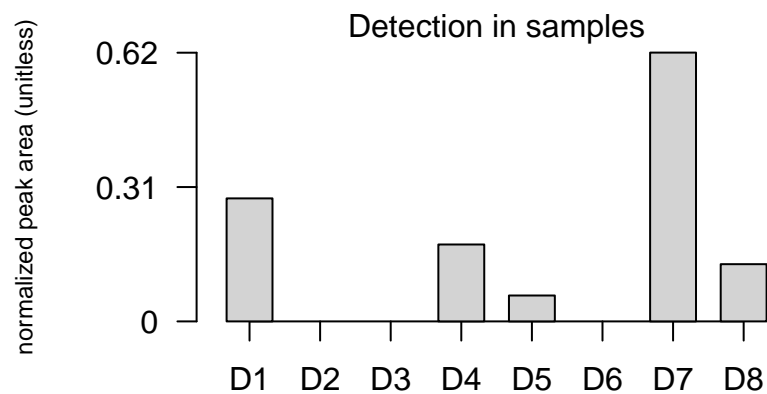
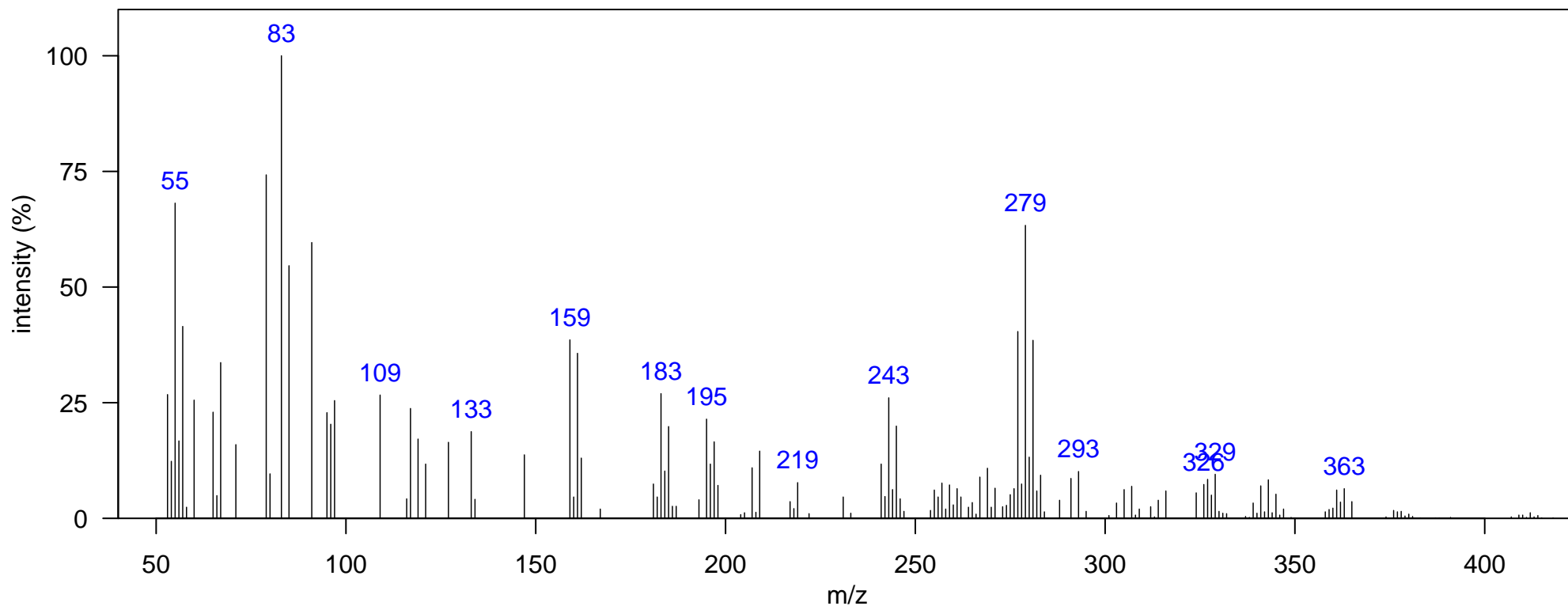
Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>8</sub>

Quantitative Ion m/z: 243

Source: anthropogenic

Atlantic Lib: toxaphene 5

Identification: Manual



m/z [Fragment]

Class: Toxaphene

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>8</sub>

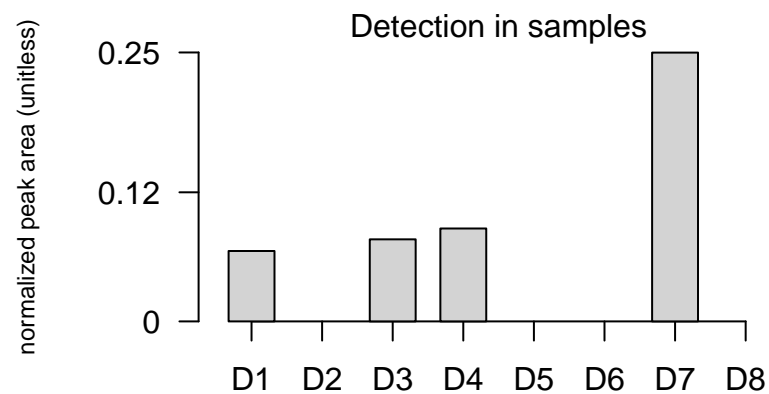
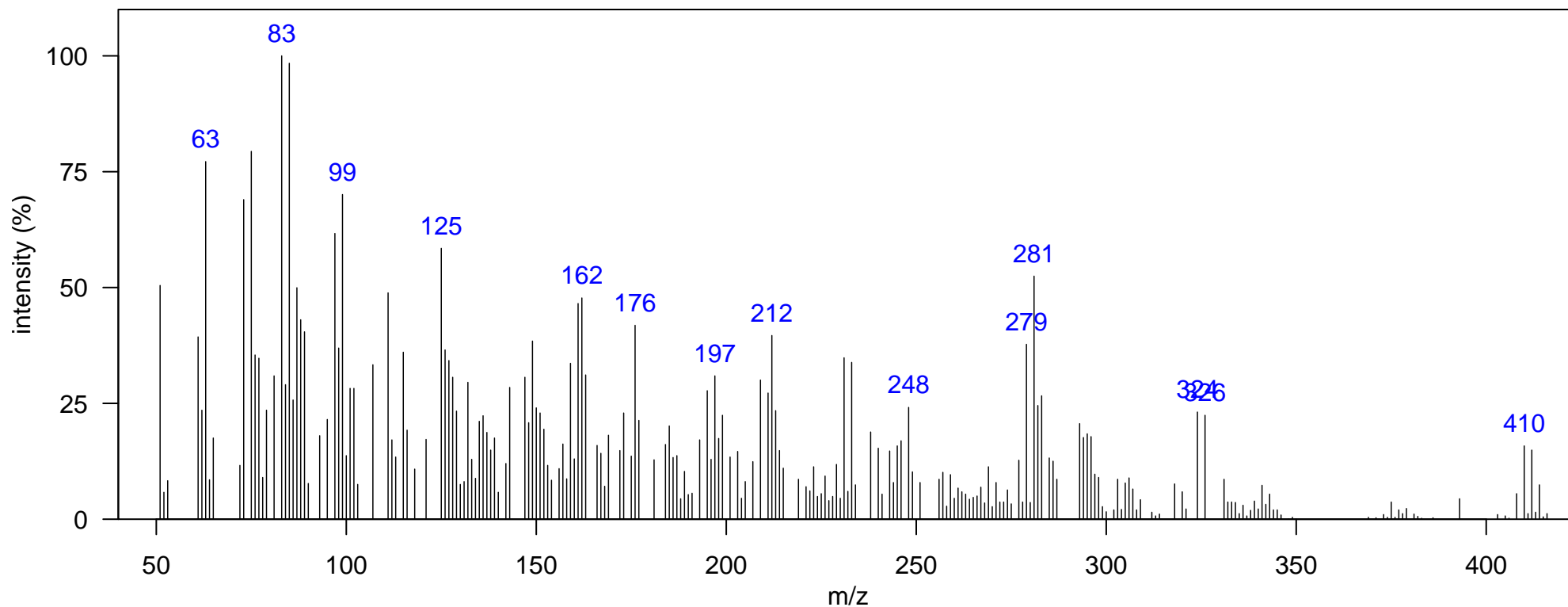
Quantitative Ion m/z: 279

Source: anthropogenic

Atlantic Lib:

Identification: Manual

Comment:



m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1464.01, 1.399

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>8</sub>

Ecotype: coastal

Quantitative Ion m/z: 245

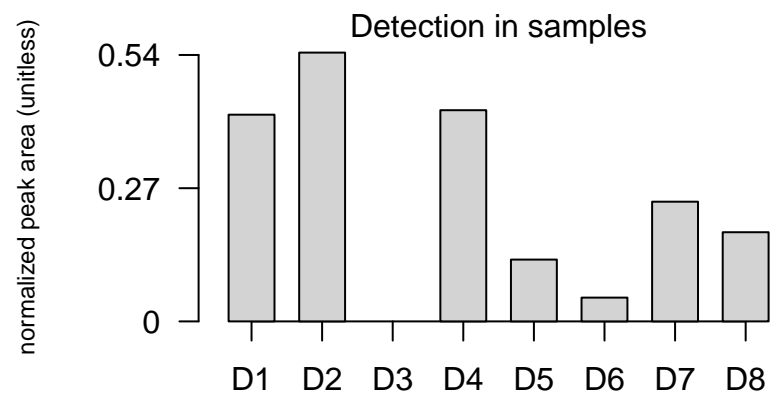
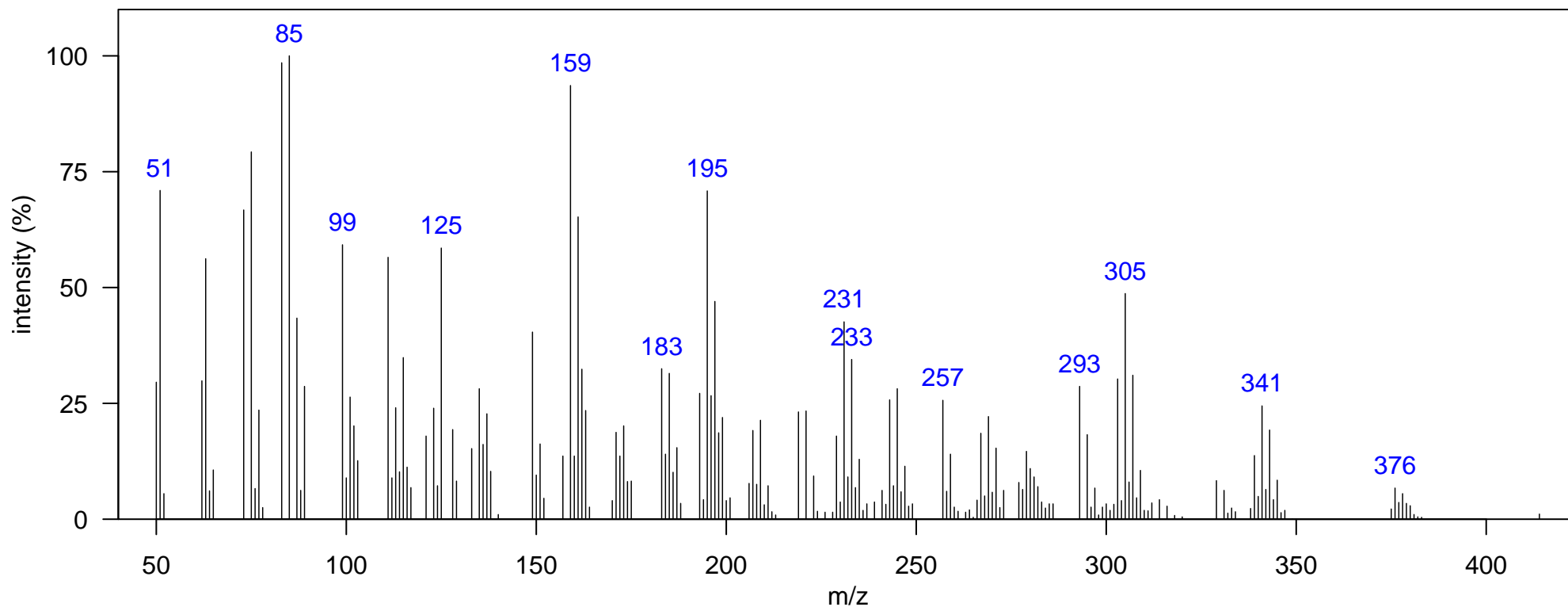
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: toxaphene 8

Identification: Manual

Comment:



m/z [Fragment]

Class: Toxaphene

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>8</sub>

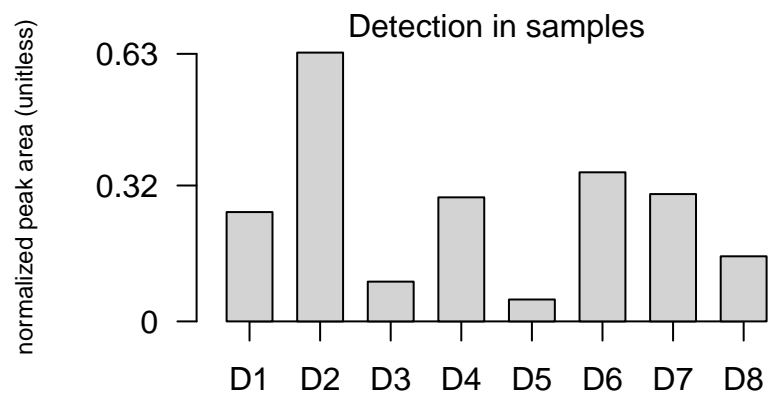
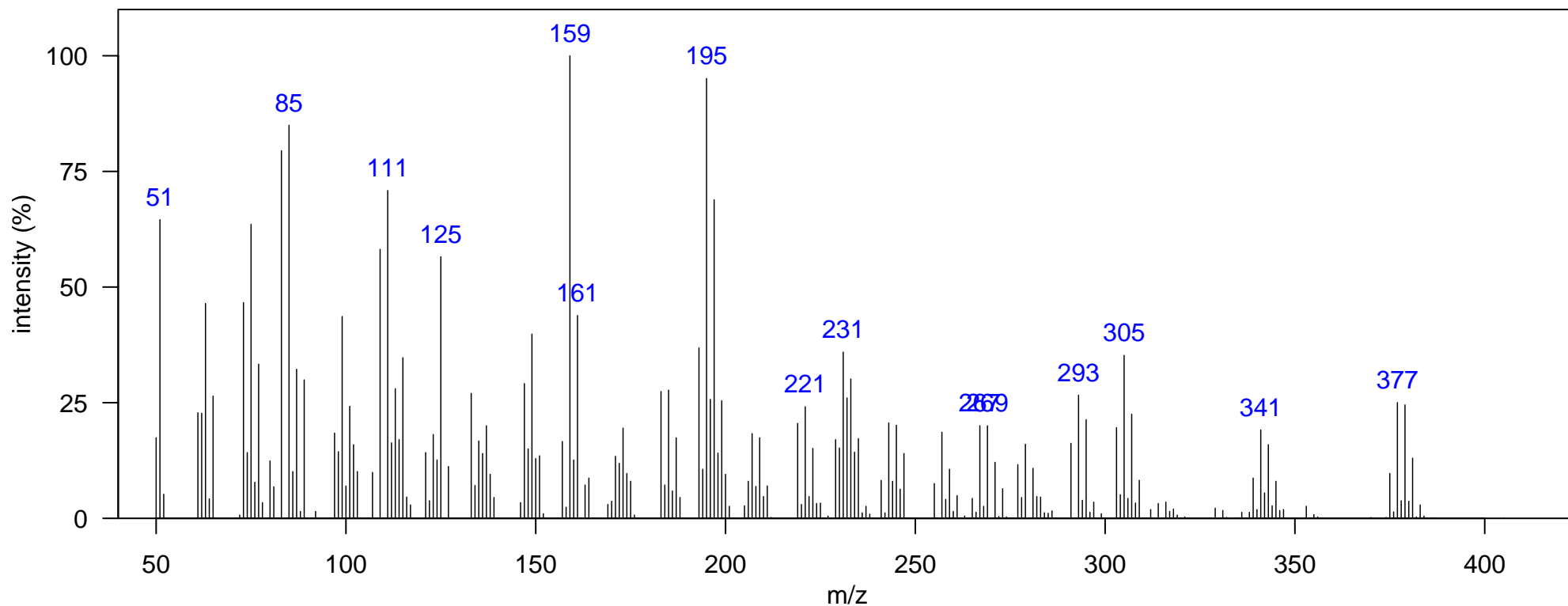
Quantitative Ion m/z: 245

Source: anthropogenic

Atlantic Lib: toxaphene 9

Identification: Authentic MS RT

Comment:



m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1495.49, 1.406

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>8</sub>

Ecotype: coastal

Quantitative Ion m/z: 339

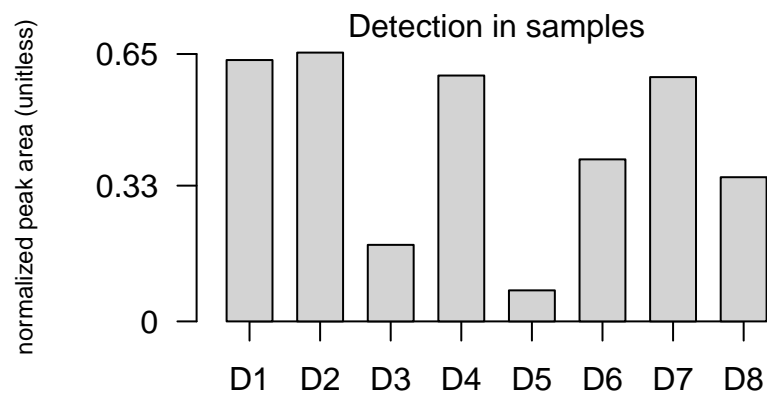
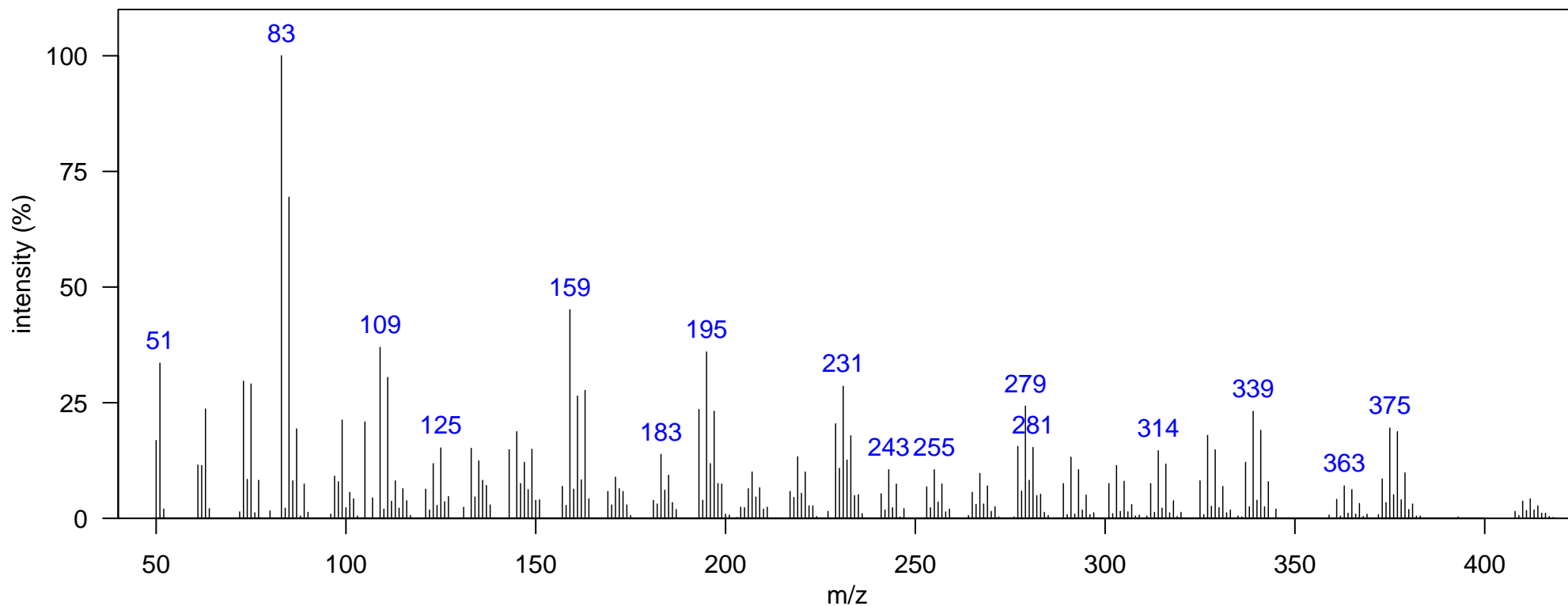
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: toxaphene 10

Identification: Authentic MS RT

Comment:



m/z [Fragment]

Class: Toxaphene

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>8</sub>

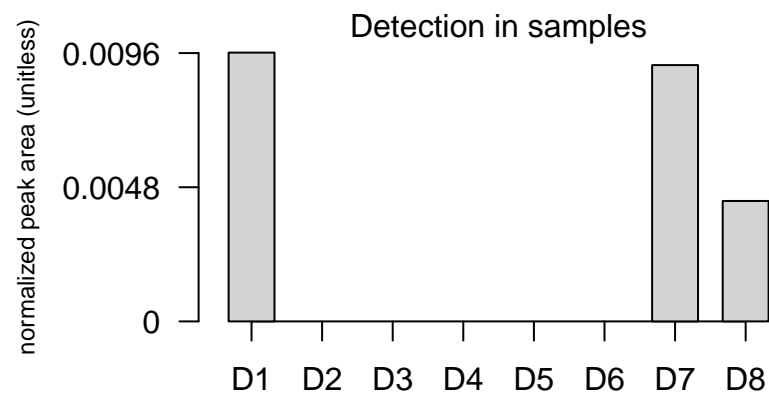
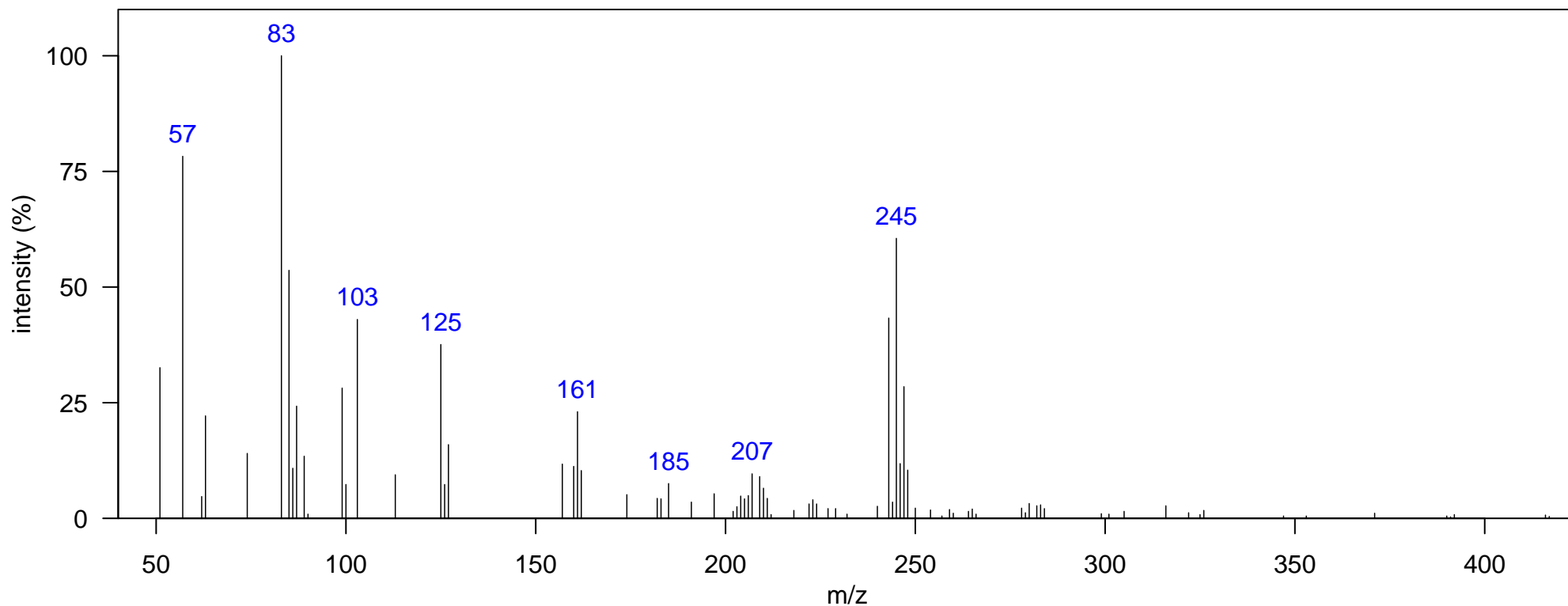
Quantitative Ion m/z: 245

Source: anthropogenic

Atlantic Lib: toxaphene 10

Identification: Authentic MS

Comment:



m/z [Fragment]



Class: Toxaphene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1554.95, 1.65

Elemental Formula: C10H9Cl9

Ecotype: coastal

Quantitative Ion m/z: 339

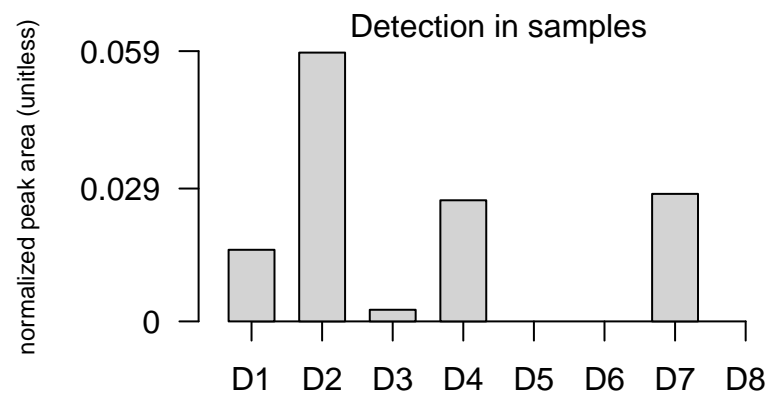
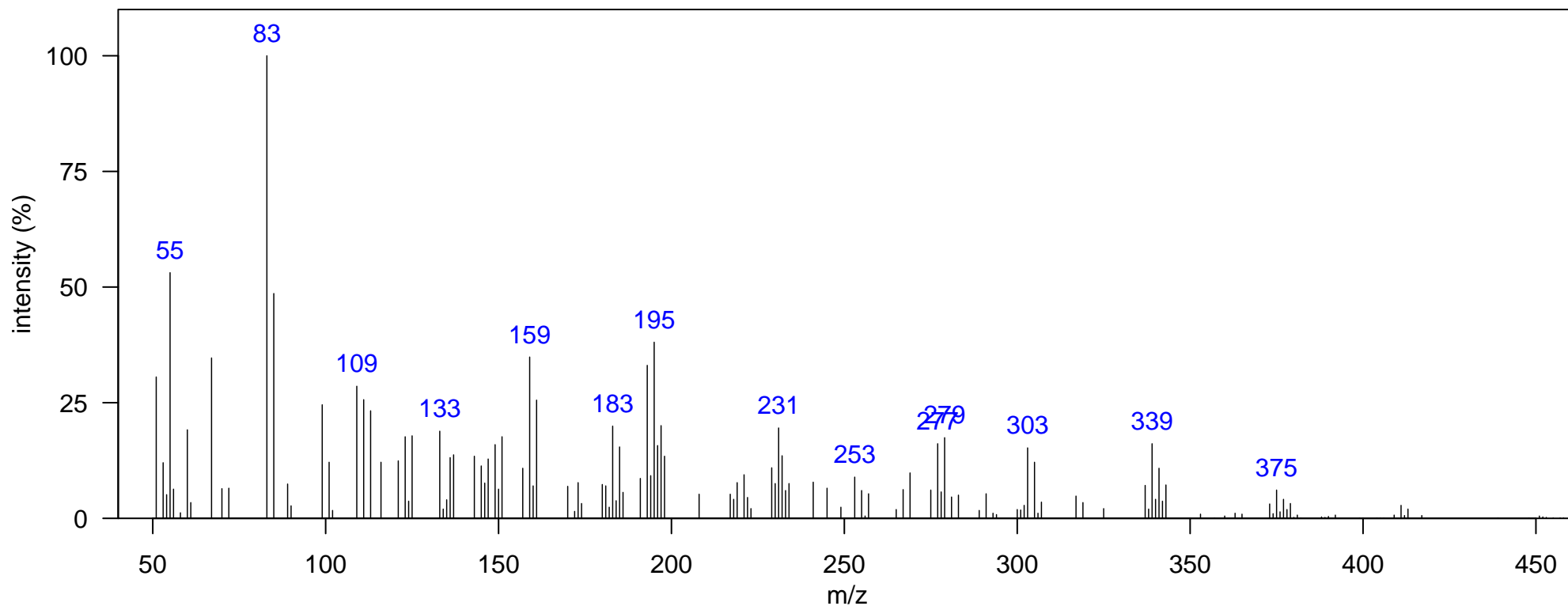
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: toxaphene 10

Identification: Authentic MS

Comment:



m/z [Fragment]

Name: mirex 2Cl 1

Class: Mirex-related

Sample: SoCal dolphin blubber D6, DSJ2155 1D RT, 2D RT (s): 1439.52, 1.373

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

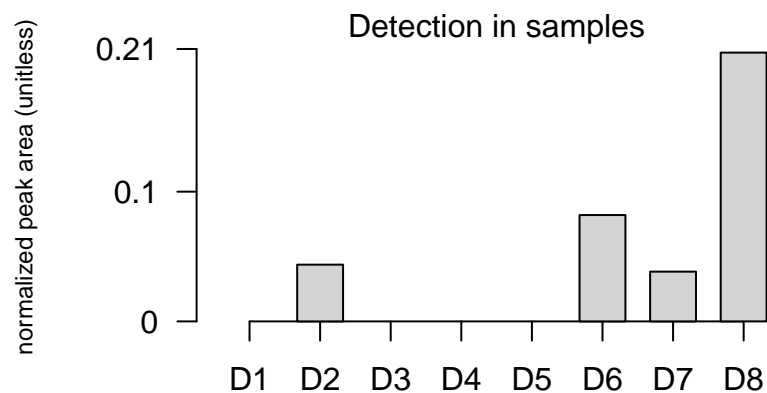
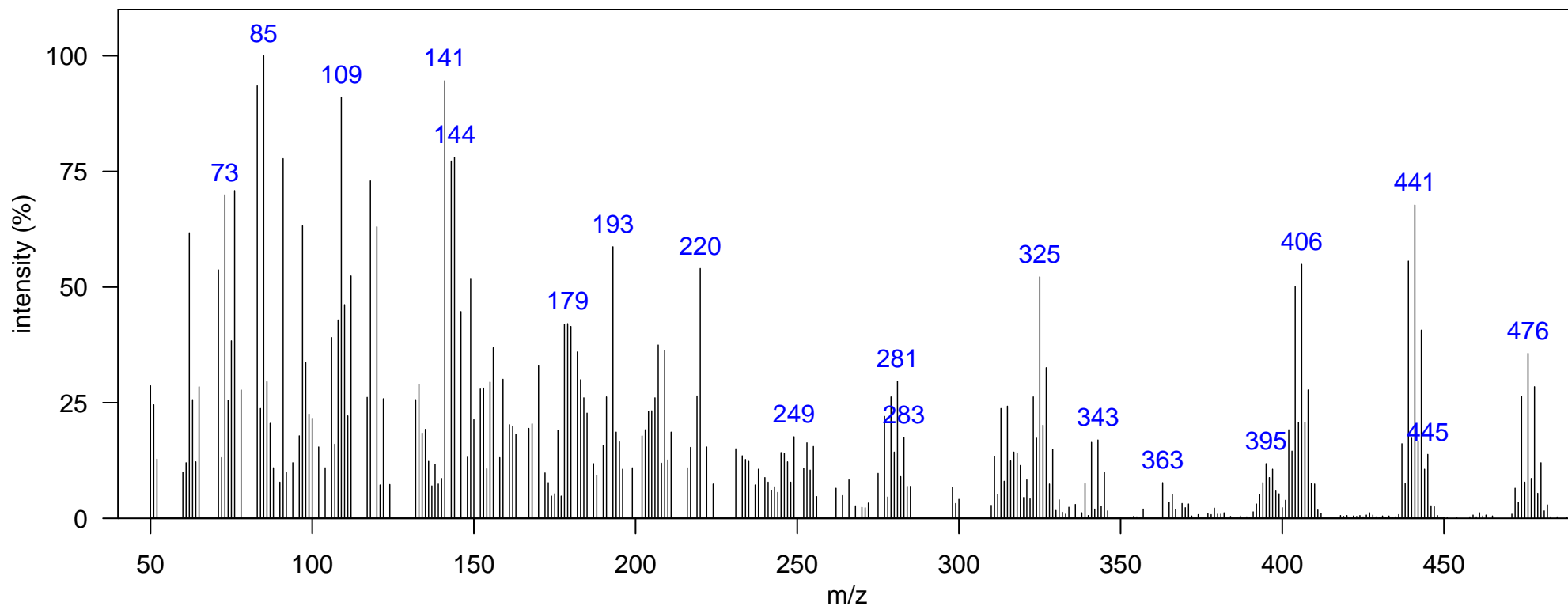
Quantitative Ion m/z: 441

Atlantic Lib: mirex-2Cl

Elemental Formula: C<sub>10</sub>H<sub>2</sub>Cl<sub>10</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
437 [M-Cl] <sup>+</sup>
472 M <sup>+</sup>

Name: mirex 2Cl 2

Class: Mirex-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1453.51, 1.393

Ecotype: coastal

Quantitative Ion m/z: 441

Instrument: GCxGC-TOF, EI, 70 eV

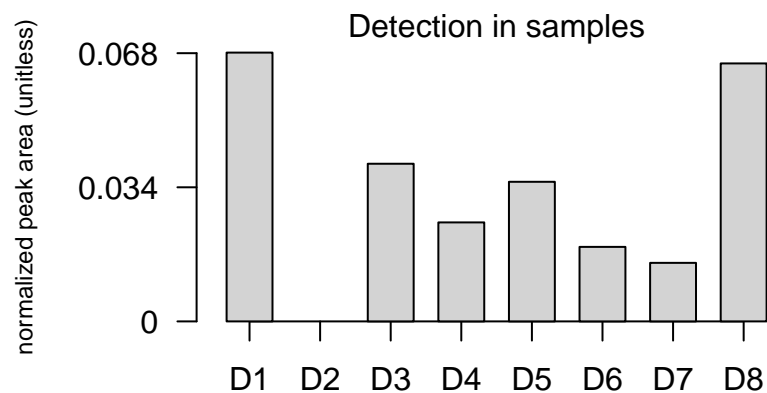
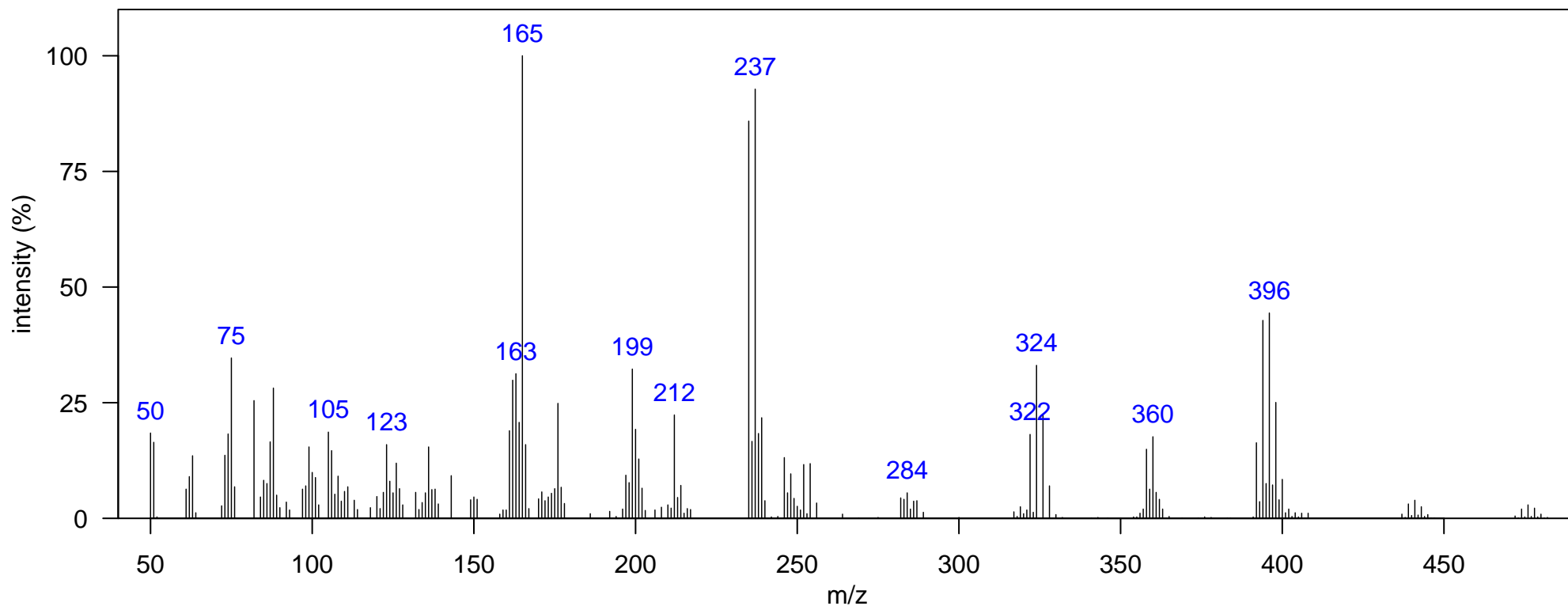
Atlantic Lib: mirex-2Cl

Elemental Formula: C<sub>10</sub>H<sub>2</sub>Cl<sub>10</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]

324 PCB Interference  
346 PCB Interference  
360 PCB Interference  
437 [M-Cl]<sup>+</sup>  
472 M<sup>+</sup>

Name: mirex 1Cl

Class: Mirex-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1498.99, 1.452

Ecotype: coastal

Quantitative Ion m/z: 475

Elemental Formula: C<sub>10</sub>HCl<sub>11</sub>

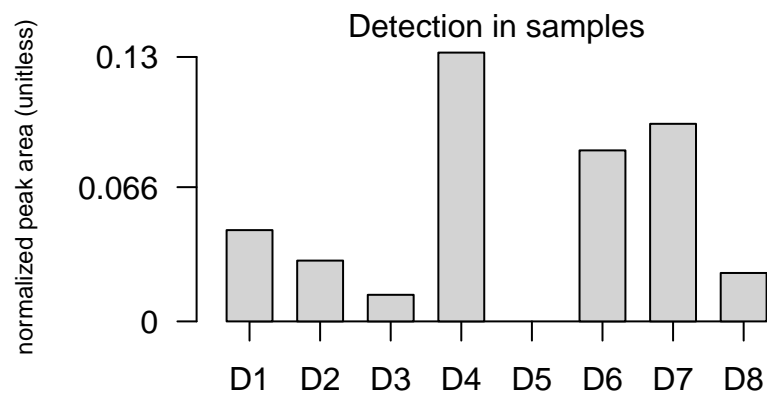
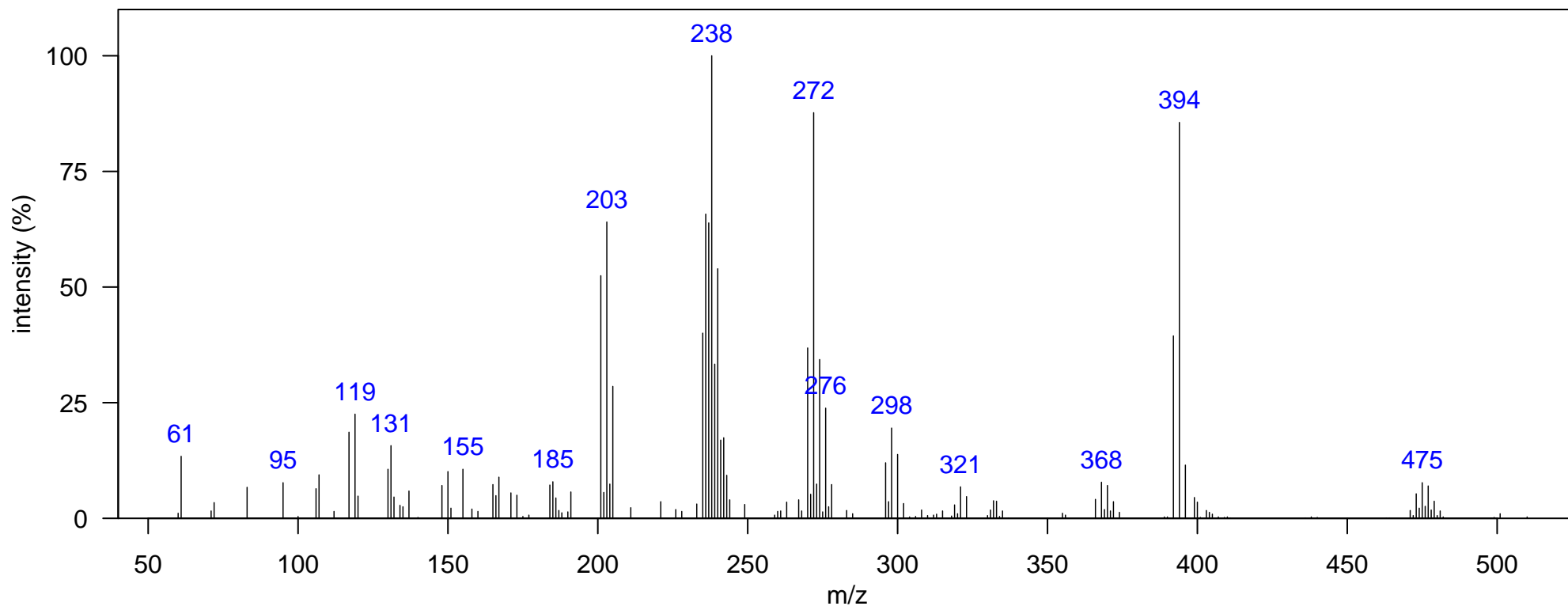
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: mirex-1Cl isomer

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]

270 [C<sub>5</sub>Cl<sub>6</sub>]<sup>+</sup>

366 [M-Cl<sub>4</sub>]

471 [M-Cl]<sup>+</sup>

Name: mirex

Class: Mirex-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1575.94, 1.696

Ecotype: coastal

Quantitative Ion m/z: 272

Elemental Formula: C<sub>10</sub>Cl<sub>12</sub>

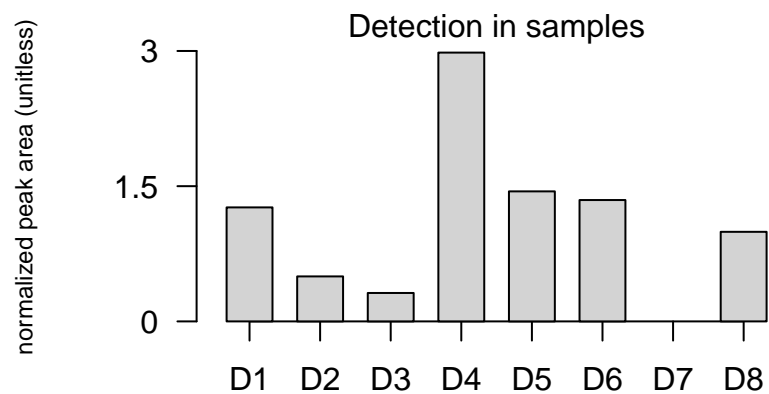
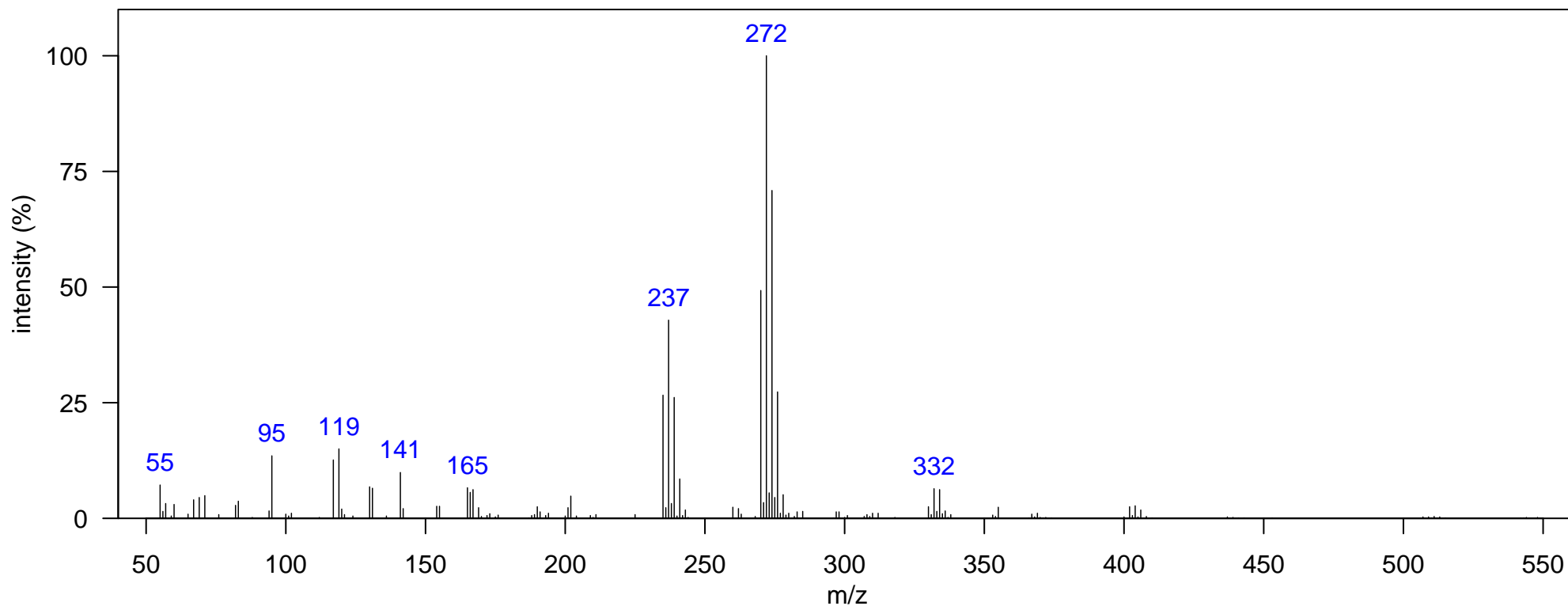
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: mirex

Source: anthropogenic

Comment:

Identification: Authentic MS RT



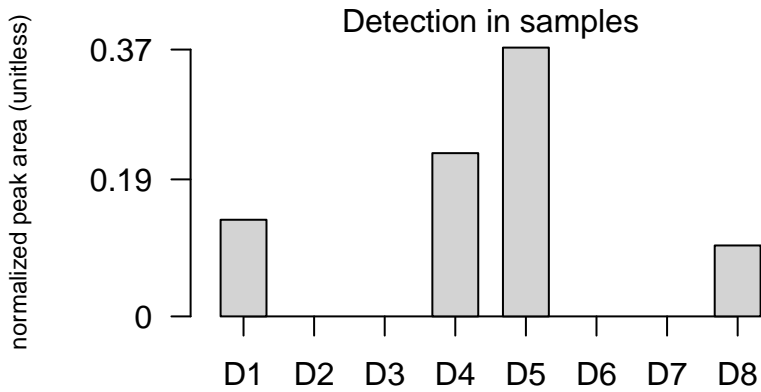
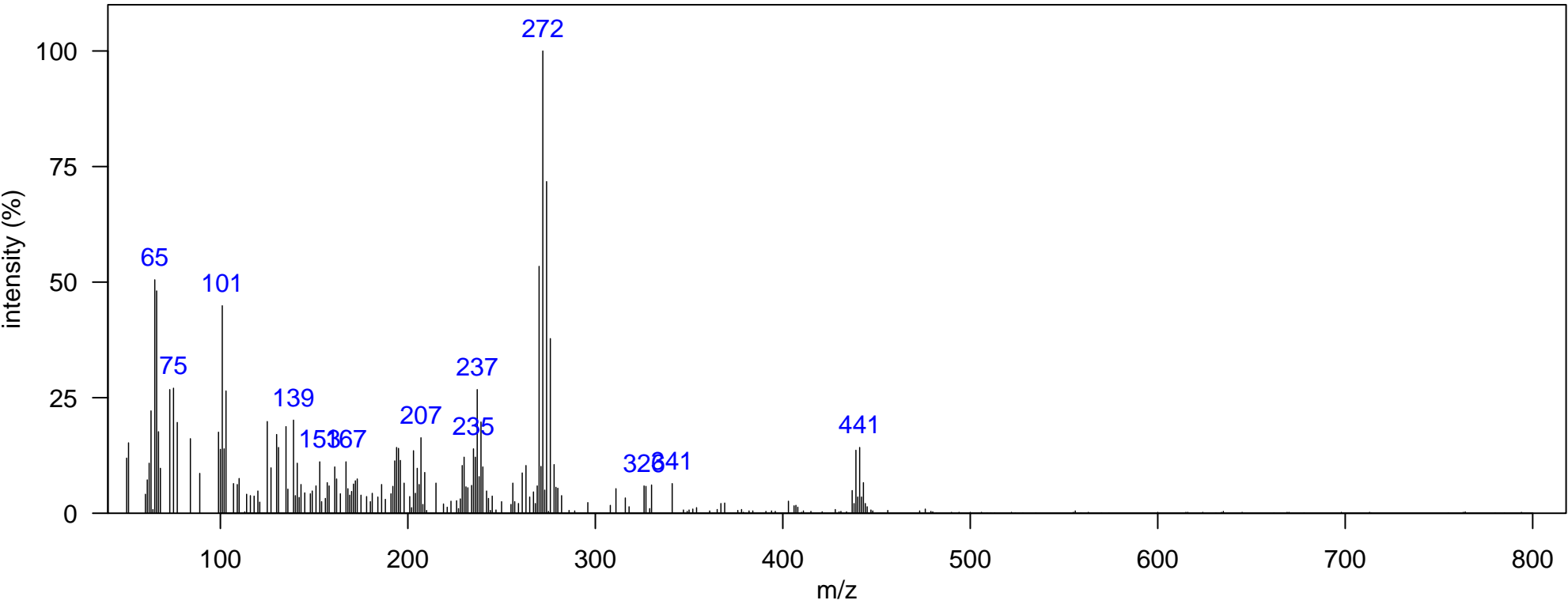
m/z [Fragment]

Name: mirex related 1

Class: Mirex-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1701.87, 1.967  
Ecotype: coastal Quantitative Ion m/z: 272  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib:  
Comment:

Elemental Formula:  
Source: anthropogenic  
Identification: Manual



m/z [Fragment]
270 [C5Cl6]+
437 [Frag]+

Name: BDE 2Br 1

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1537.46, 0.983

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

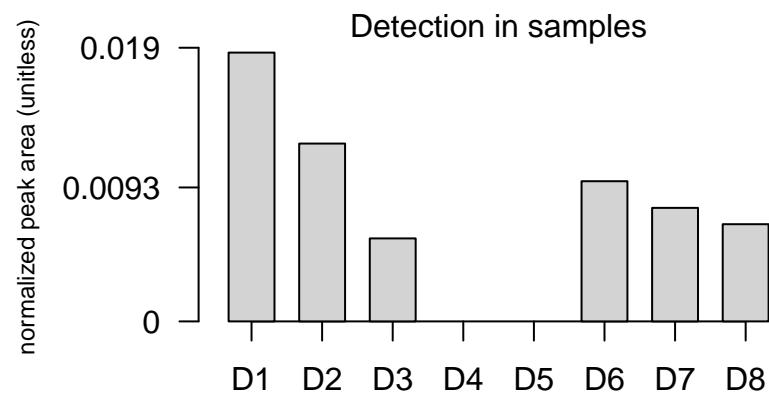
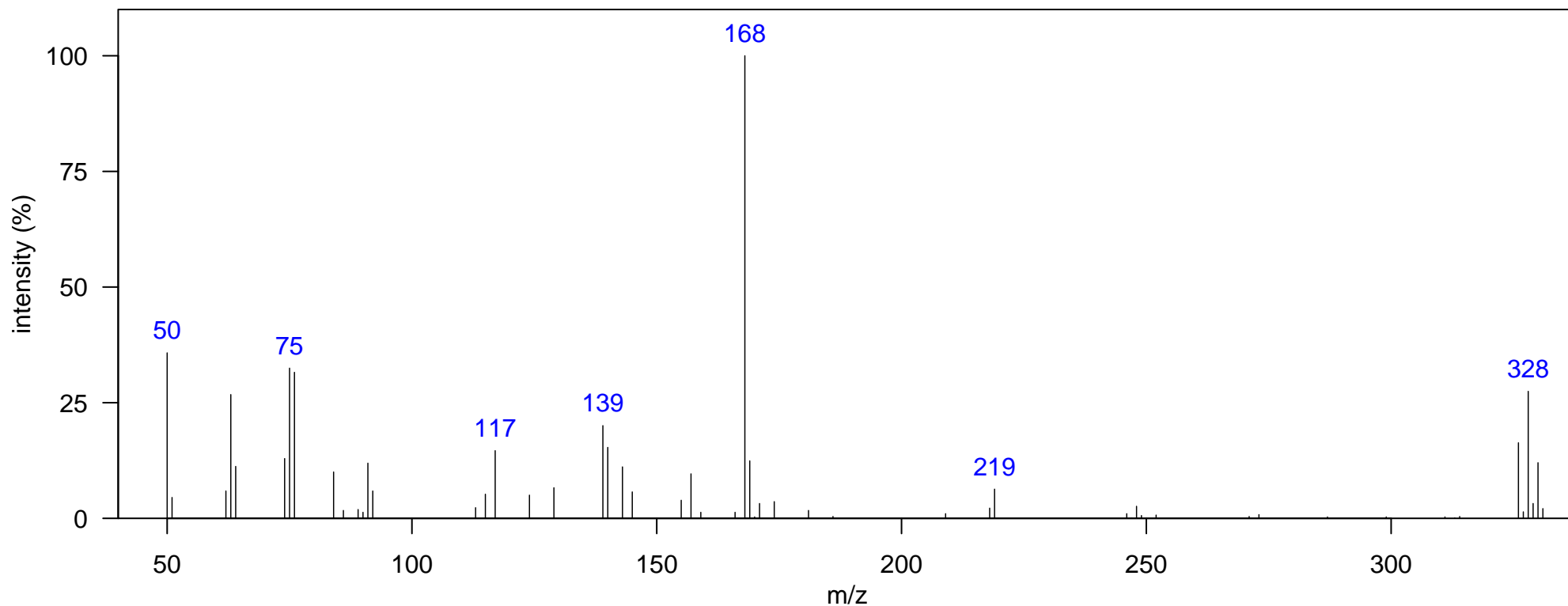
Quantitative Ion m/z: 328

Atlantic Lib:

Elemental Formula: C<sub>12</sub>H<sub>8</sub>Br<sub>2</sub>O

Source: anthropogenic

Identification: Authentic MS



m/z [Fragment]
168 [M-Br <sub>2</sub> ] <sup>+</sup>
326 M <sup>+</sup>

Name: BDE-17/25

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1394.05, 1.452

Elemental Formula: C<sub>12</sub>H<sub>7</sub>Br<sub>3</sub>O

Ecotype: coastal

Quantitative Ion m/z: 406

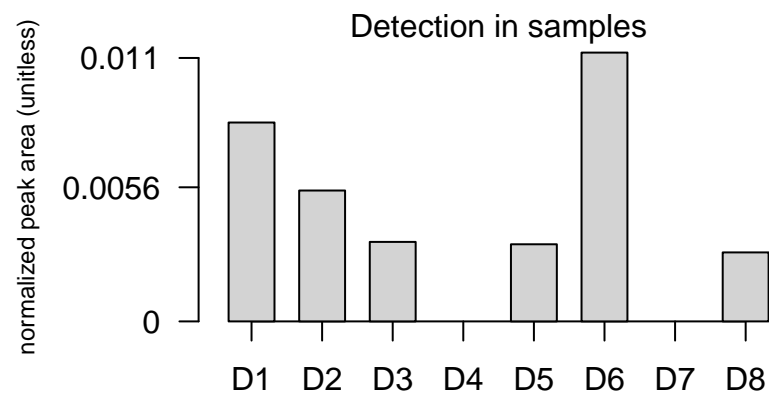
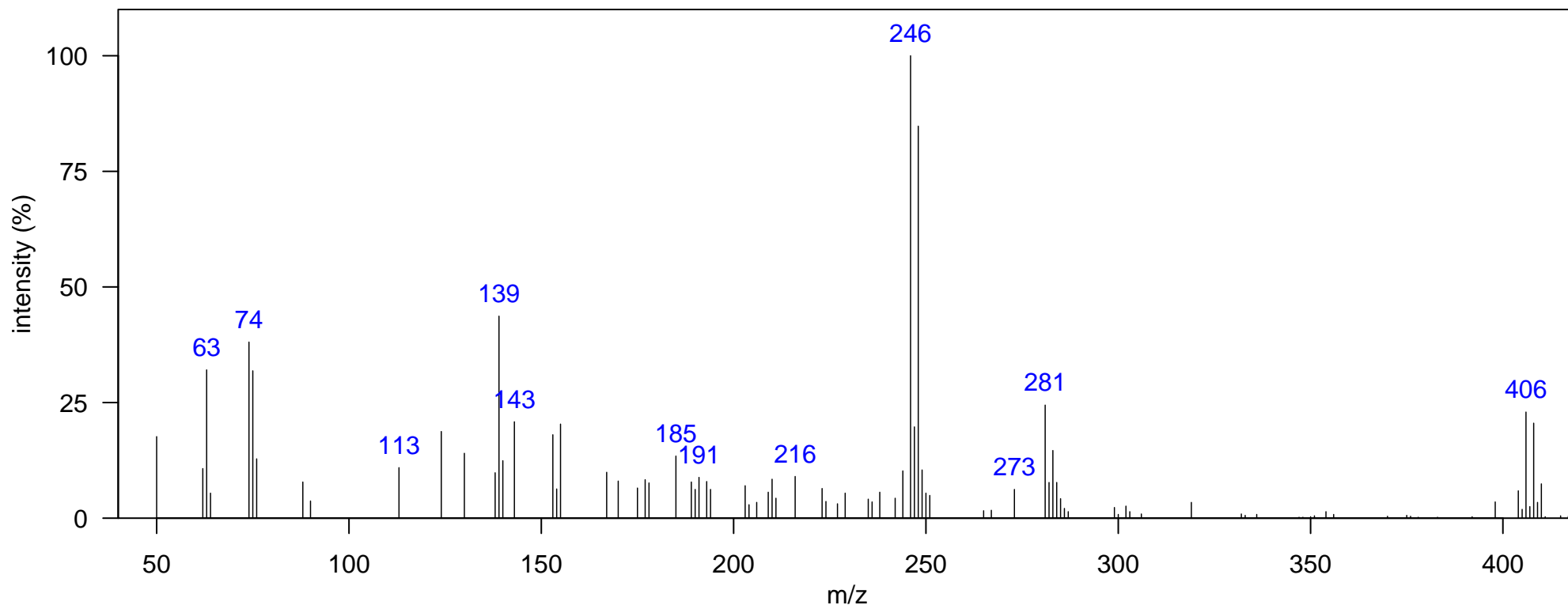
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 3Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
246 [M-Br <sub>2</sub> ] <sup>+</sup>
404 M <sup>+</sup>



Name: BDE-28/33

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1411.54, 1.419

Elemental Formula: C<sub>12</sub>H<sub>7</sub>Br<sub>3</sub>O

Ecotype: coastal

Quantitative Ion m/z: 406

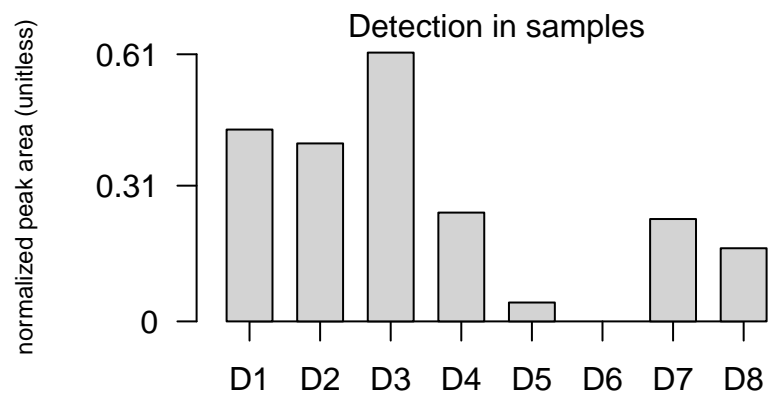
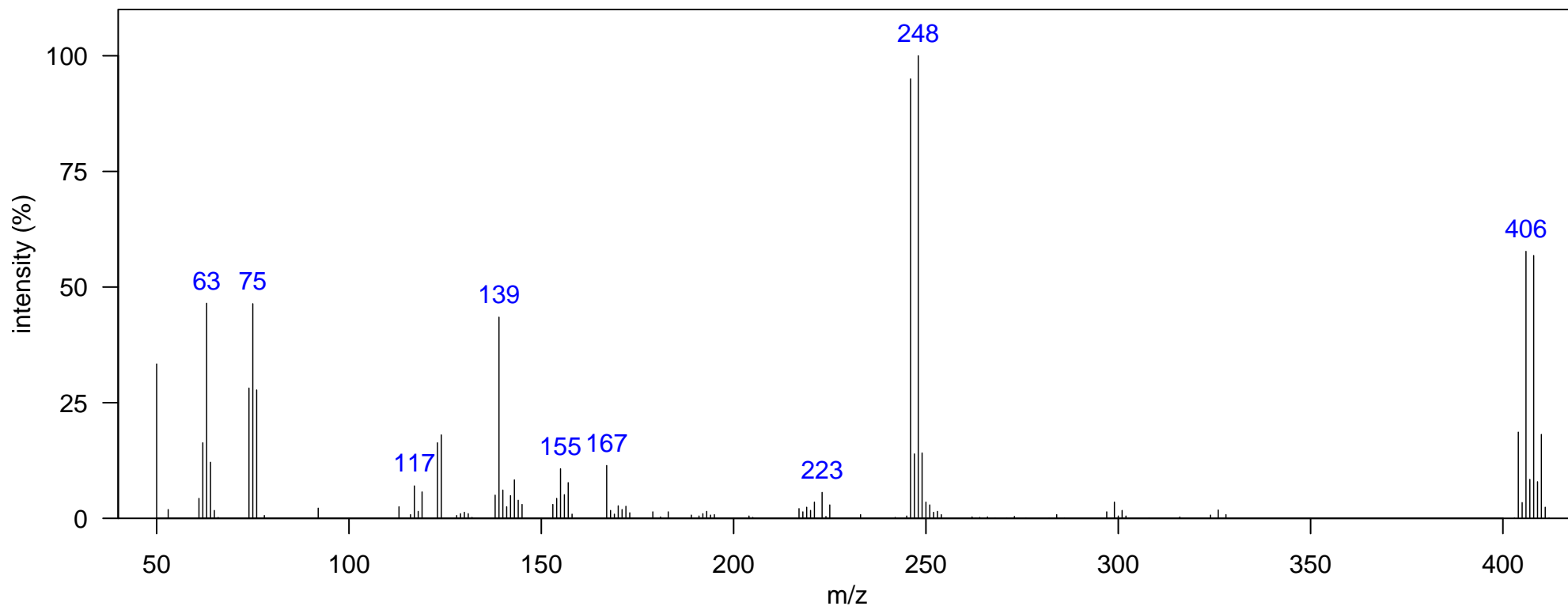
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 3Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
246 [M-Br <sub>2</sub> ] <sup>+</sup>
404 M <sup>+</sup>

Name: BDE 3Br 1

Class: PBDE

Sample: SoCal dolphin blubber D2, DSJ2195

1D RT, 2D RT (s): 1516.48, 1.221

Elemental Formula: C<sub>12</sub>H<sub>7</sub>Br<sub>3</sub>O

Ecotype: offshore

Quantitative Ion m/z: 406

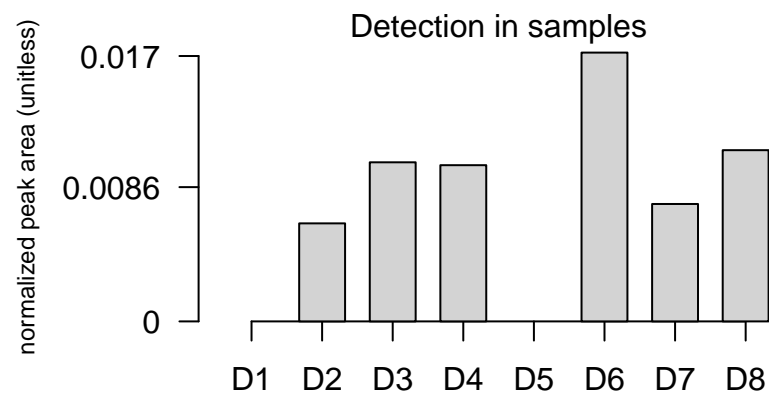
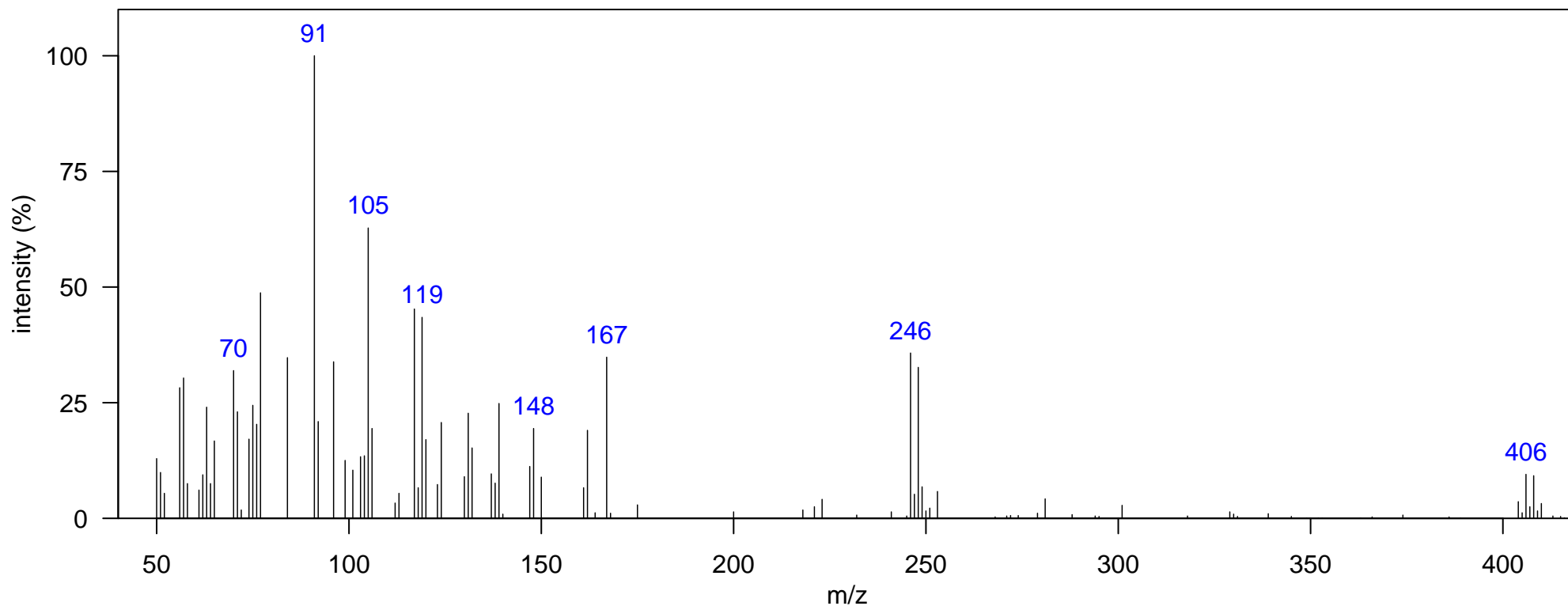
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 3Br

Identification: Authentic MS

Comment:



m/z [Fragment]
246 [M-Br <sub>2</sub> ] <sup>+</sup>
404 M <sup>+</sup>

Name: BDE 3Br 2

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1533.97, 1.214

Elemental Formula: C<sub>12</sub>H<sub>7</sub>Br<sub>3</sub>O

Ecotype: coastal

Quantitative Ion m/z: 406

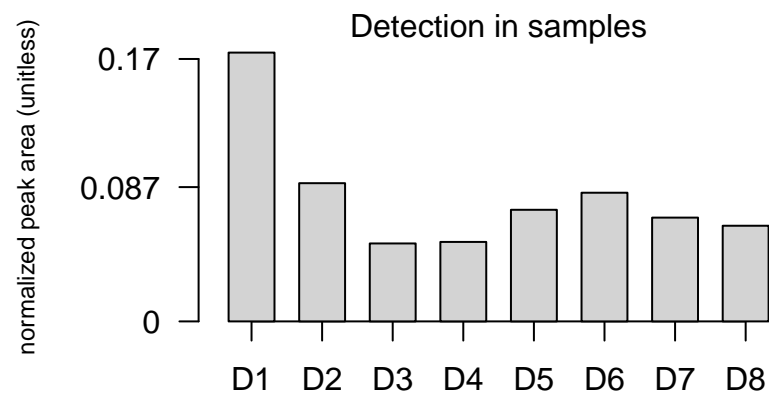
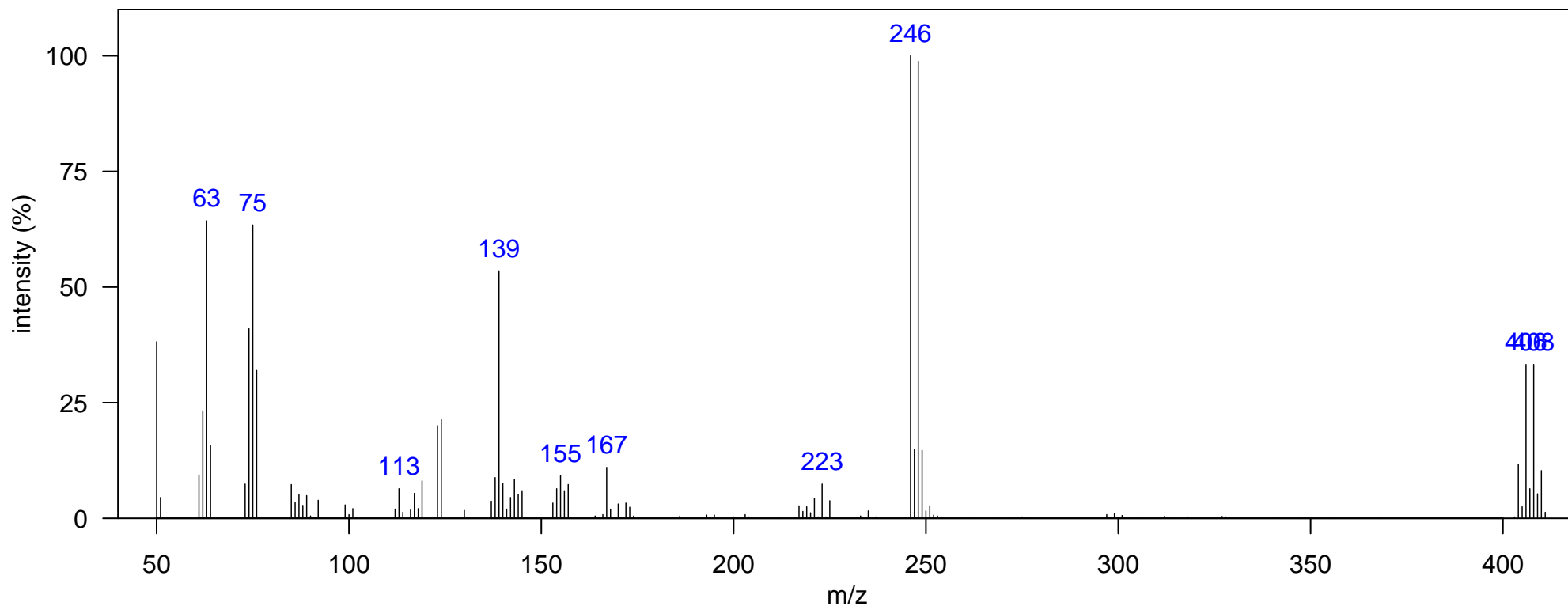
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 3Br

Identification: Authentic MS

Comment:



m/z [Fragment]
246 [M-Br <sub>2</sub> ] <sup>+</sup>
404 M <sup>+</sup>

Name: BDE-75

Class: PBDE

Sample: SoCal dolphin blubber D2, DSJ2195

1D RT, 2D RT (s): 1495.49, 1.478

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>O

Ecotype: offshore

Quantitative Ion m/z: 486

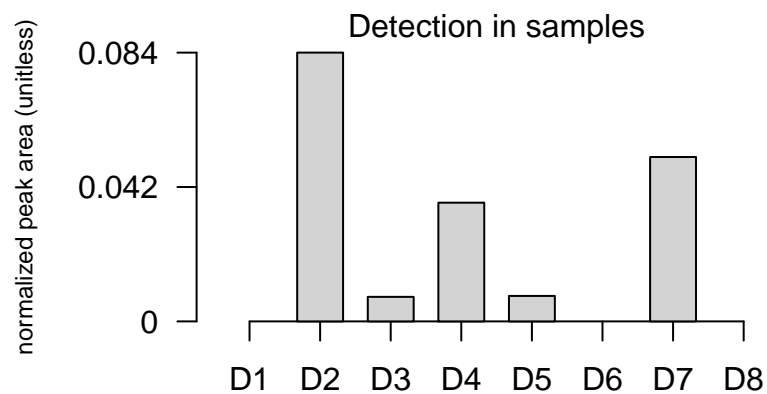
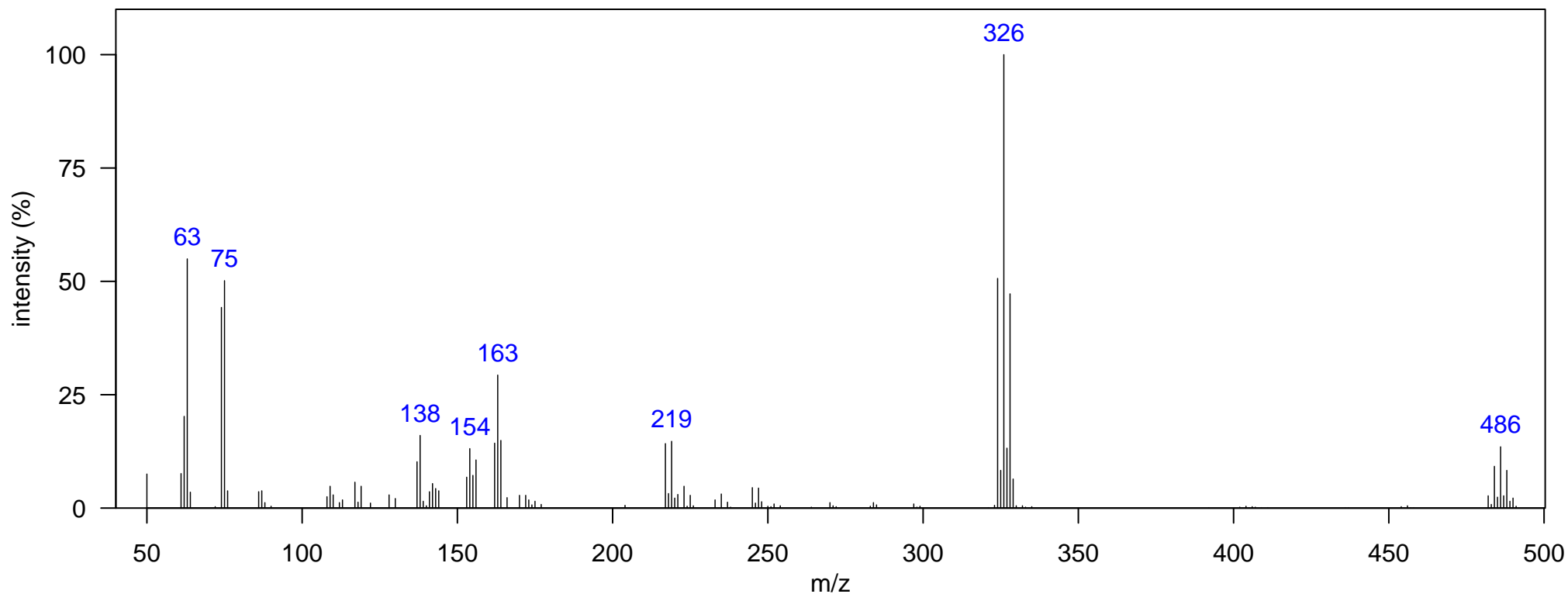
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 4Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
324 [M-Br <sub>2</sub> ] <sup>+</sup>
482 M <sup>+</sup>

Name: BDE-49

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1512.98, 1.531

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>O

Ecotype: coastal

Quantitative Ion m/z: 486

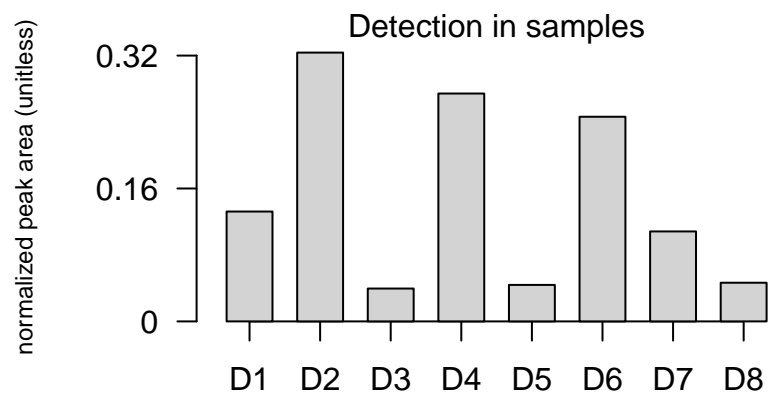
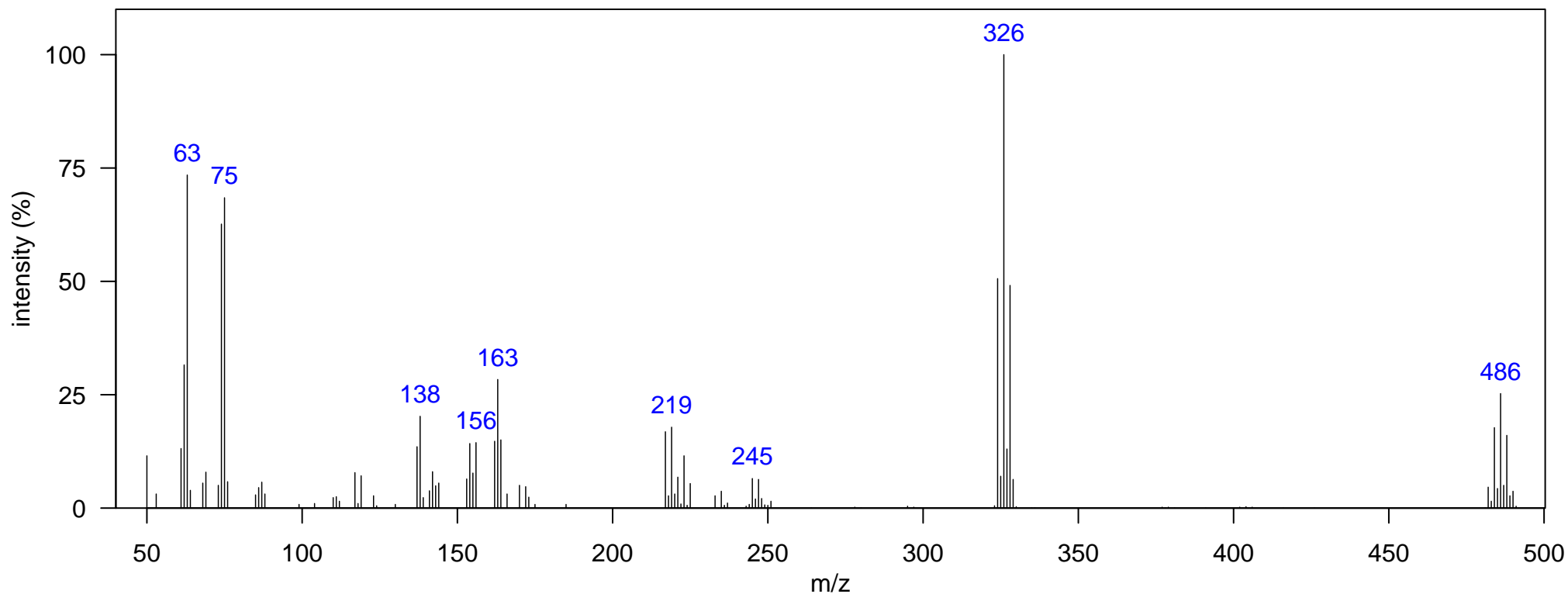
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 4Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
324 [M-Br <sub>2</sub> ] <sup>+</sup>
482 M <sup>+</sup>

Name: BDE-47

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1533.97, 1.617

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>O

Ecotype: coastal

Quantitative Ion m/z: 486

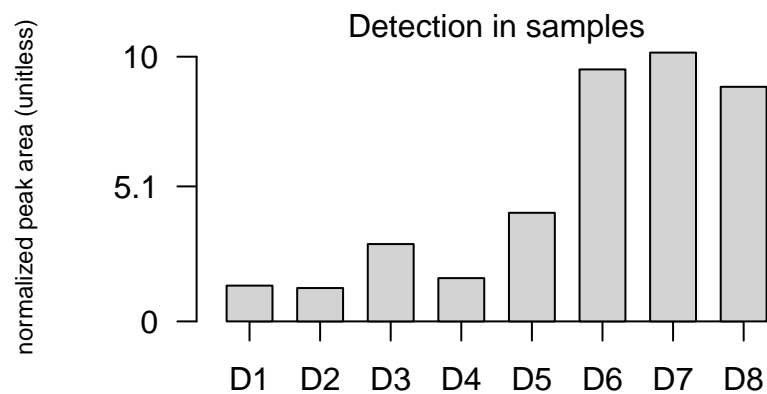
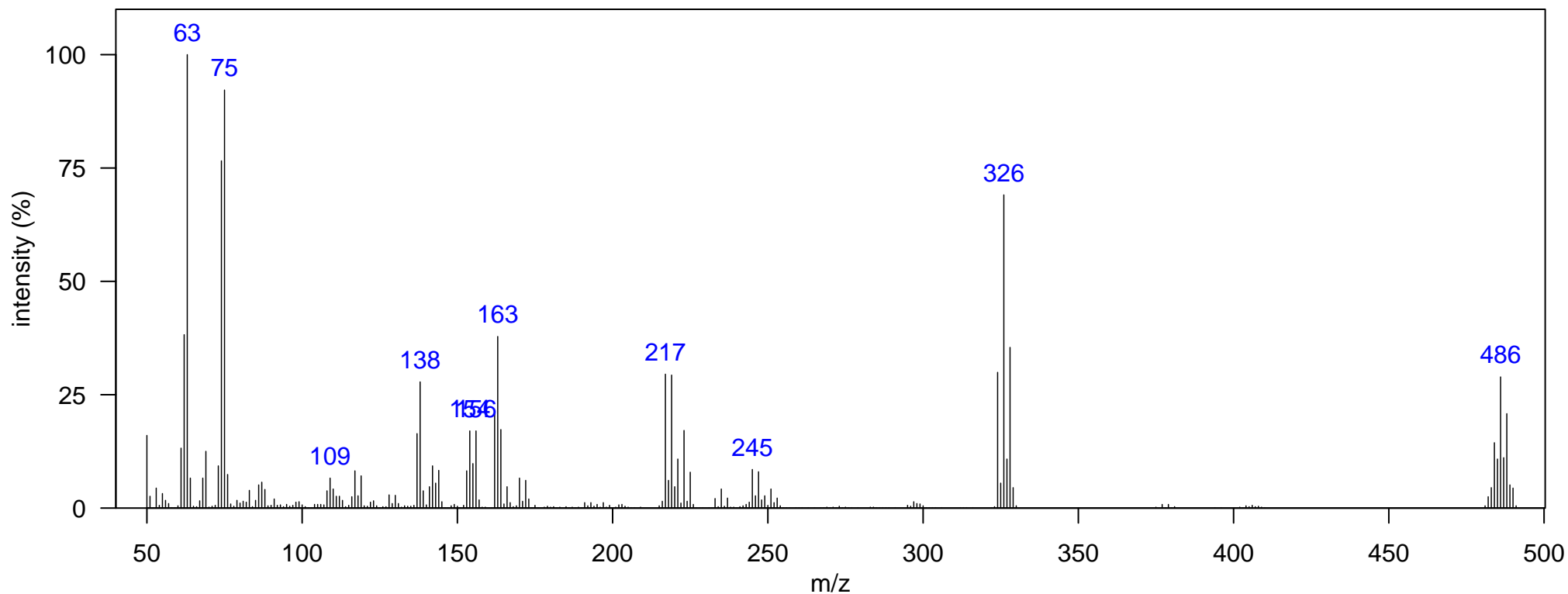
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 4Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
324 [M-Br <sub>2</sub> ] <sup>+</sup>
482 M <sup>+</sup>

Name: BDE-66

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1551.46, 1.683

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>O

Ecotype: coastal

Quantitative Ion m/z: 486

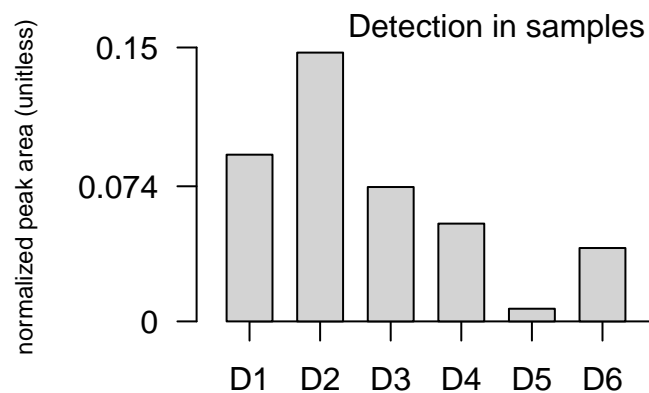
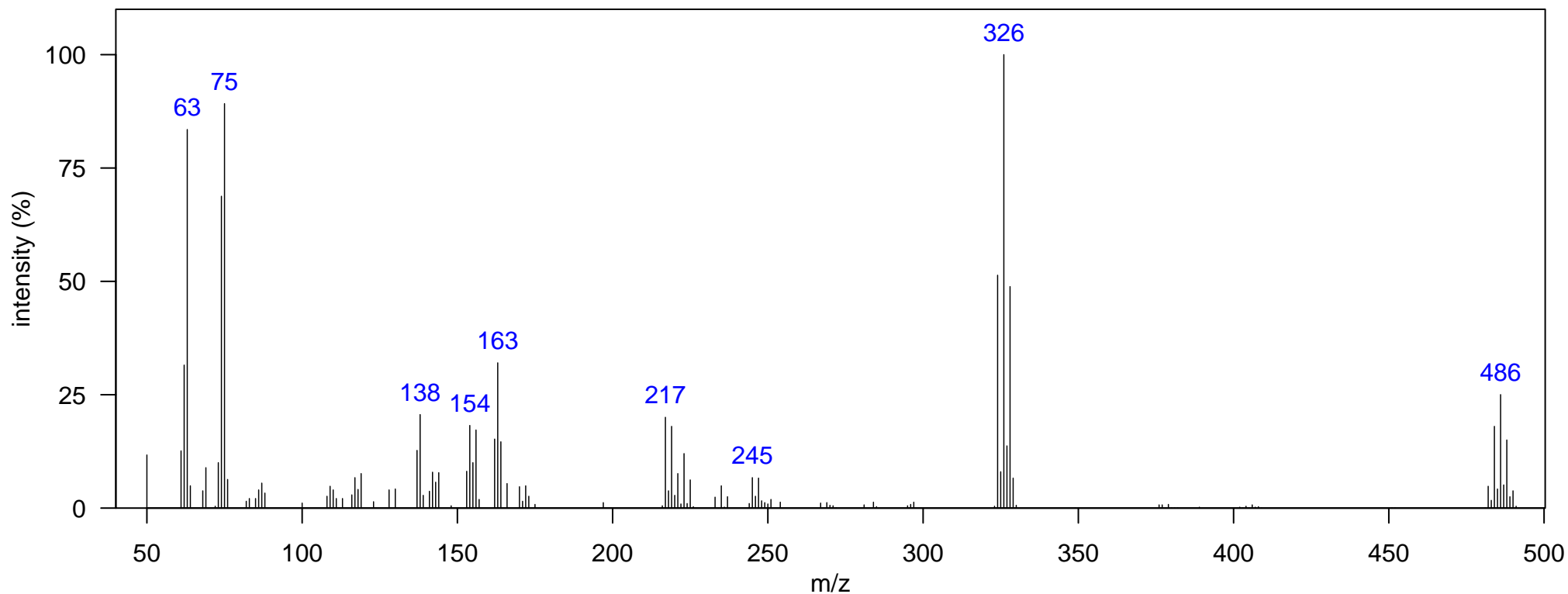
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 4Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]

324 [M-Br<sub>2</sub>]<sup>+</sup>

482 M<sup>+</sup>

Name: BDE 4Br 1

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1642.4, 1.597

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>O

Ecotype: coastal

Quantitative Ion m/z: 486

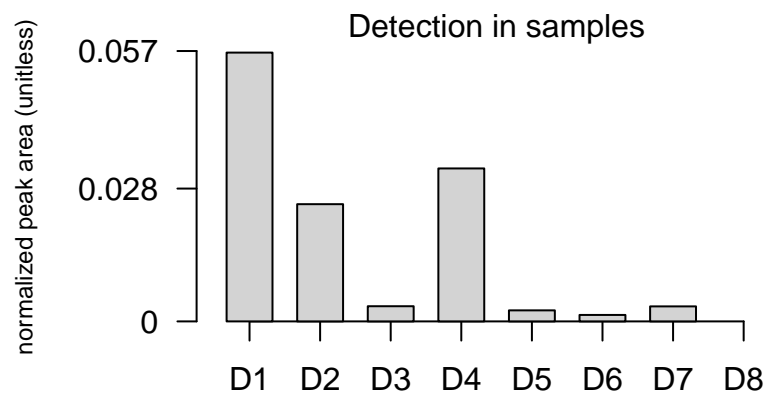
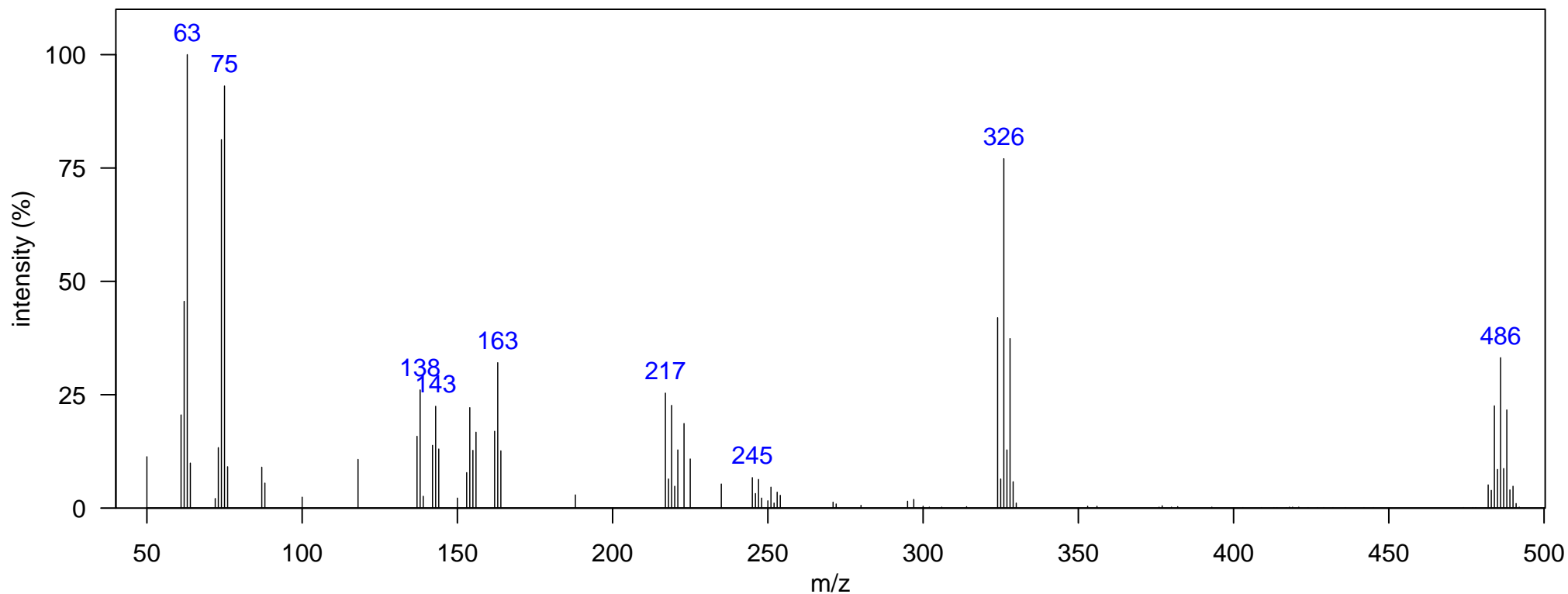
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 4Br

Identification: Authentic MS

Comment:



m/z [Fragment]
324 [M-Br <sub>2</sub> ] <sup>+</sup>
482 M <sup>+</sup>



Name: BDE 5Br 1

Class: PBDE

Sample: SoCal dolphin blubber D6, DSJ2155

1D RT, 2D RT (s): 1593.43, 1.881

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>O

Ecotype: offshore

Quantitative Ion m/z: 564

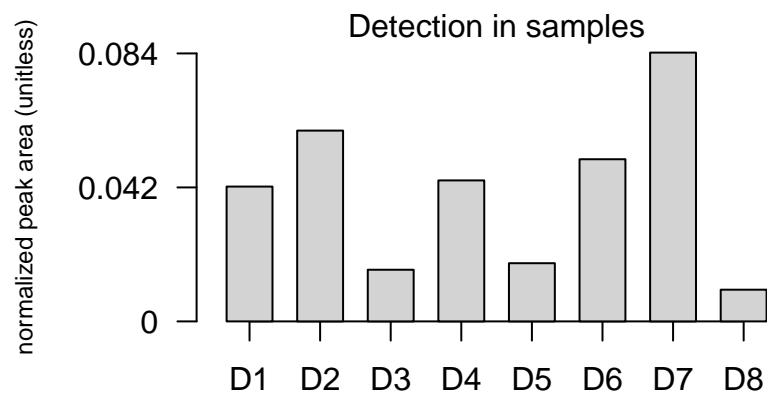
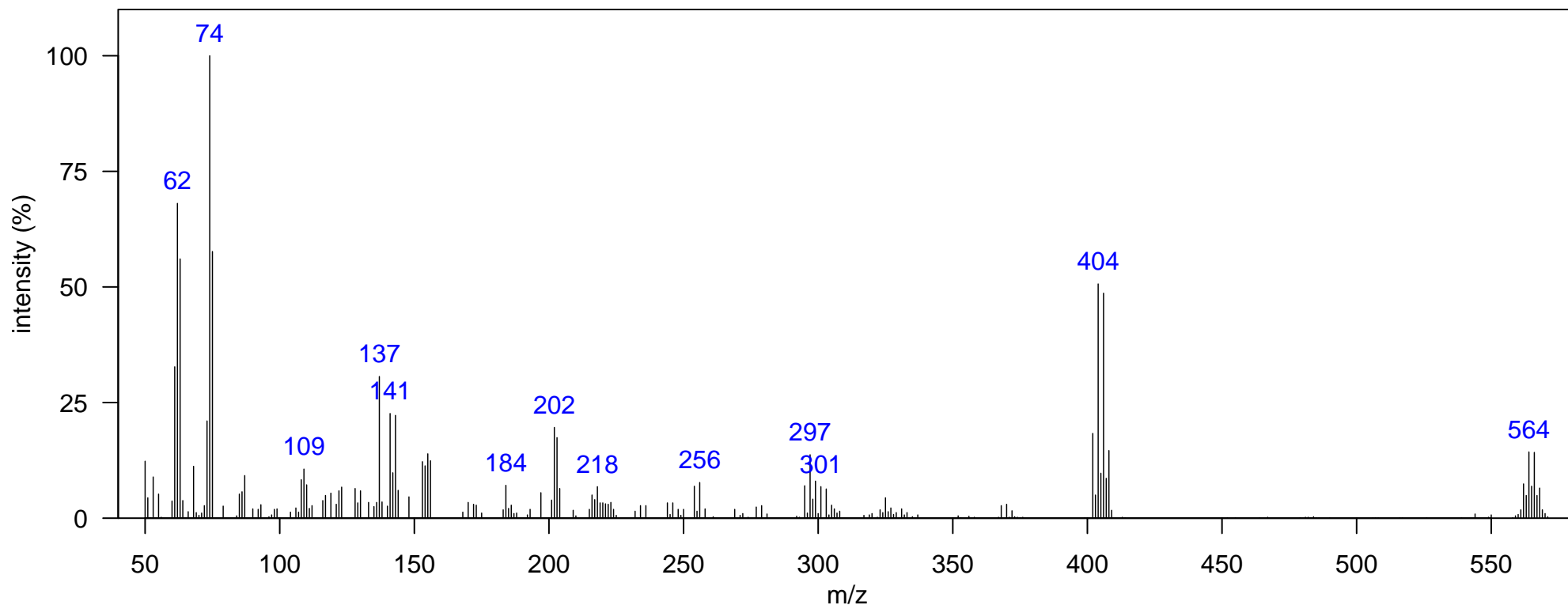
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 5Br

Identification: Authentic MS

Comment:



m/z [Fragment]

254 Interference  
279 Interference  
370 Interference  
402 [M-Br<sub>2</sub>]<sup>+</sup>  
560 M<sup>+</sup>

Name: BDE-100

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1642.4, 2.119

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>O

Ecotype: coastal

Quantitative Ion m/z: 564

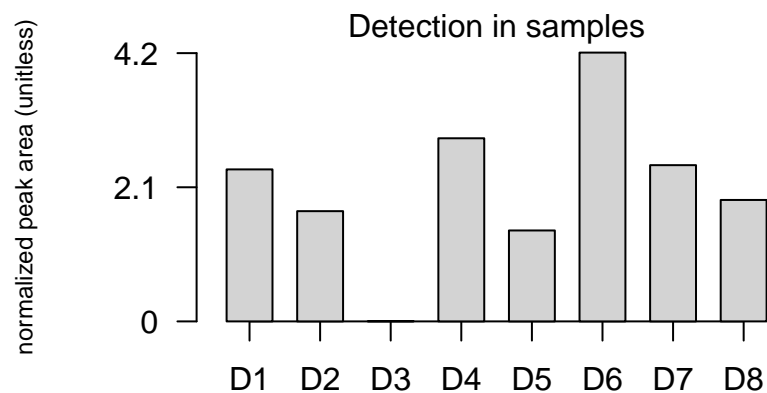
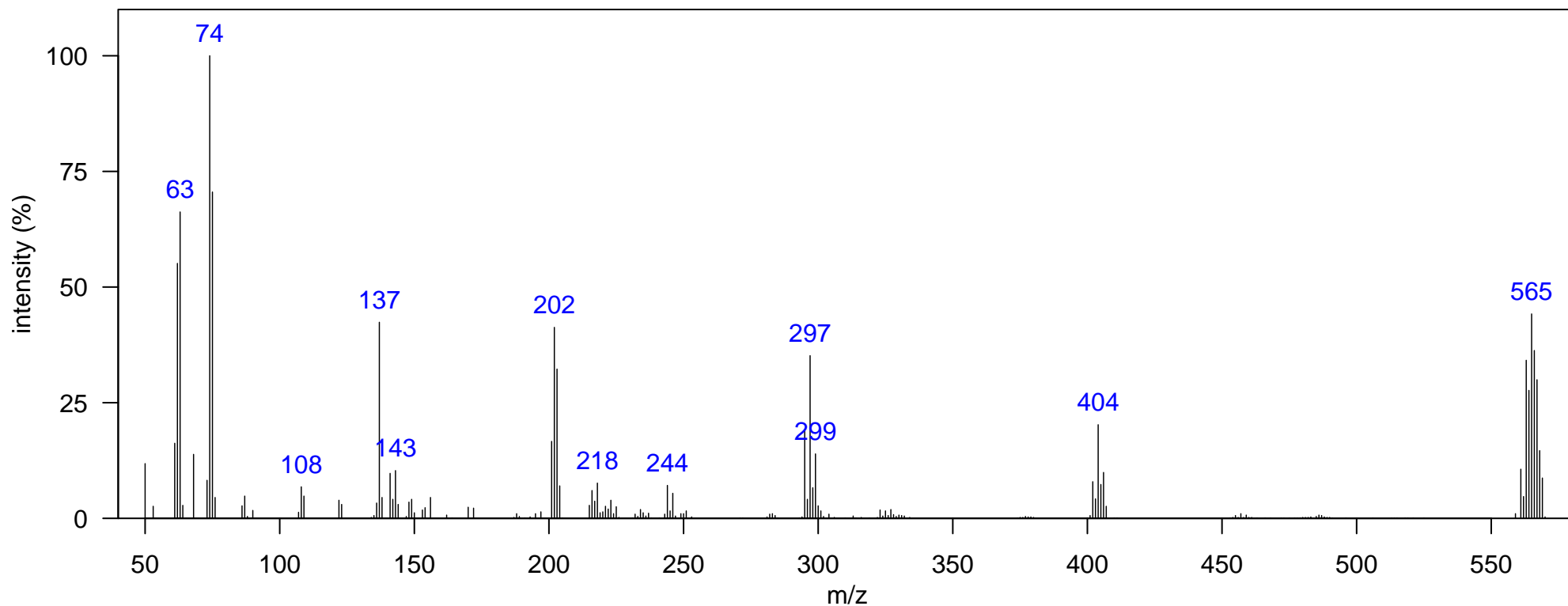
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ther 5Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
402 [M-Br <sub>2</sub> ] <sup>+</sup>
560 M <sup>+</sup>

Name: BDE-99

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1673.89, 2.297

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>O

Ecotype: coastal

Quantitative Ion m/z: 564

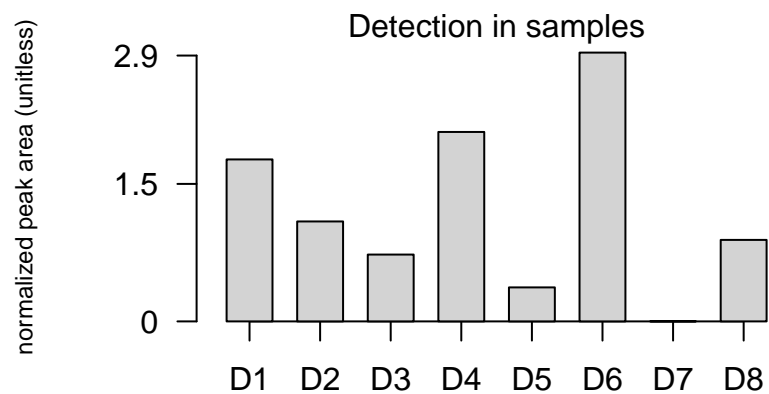
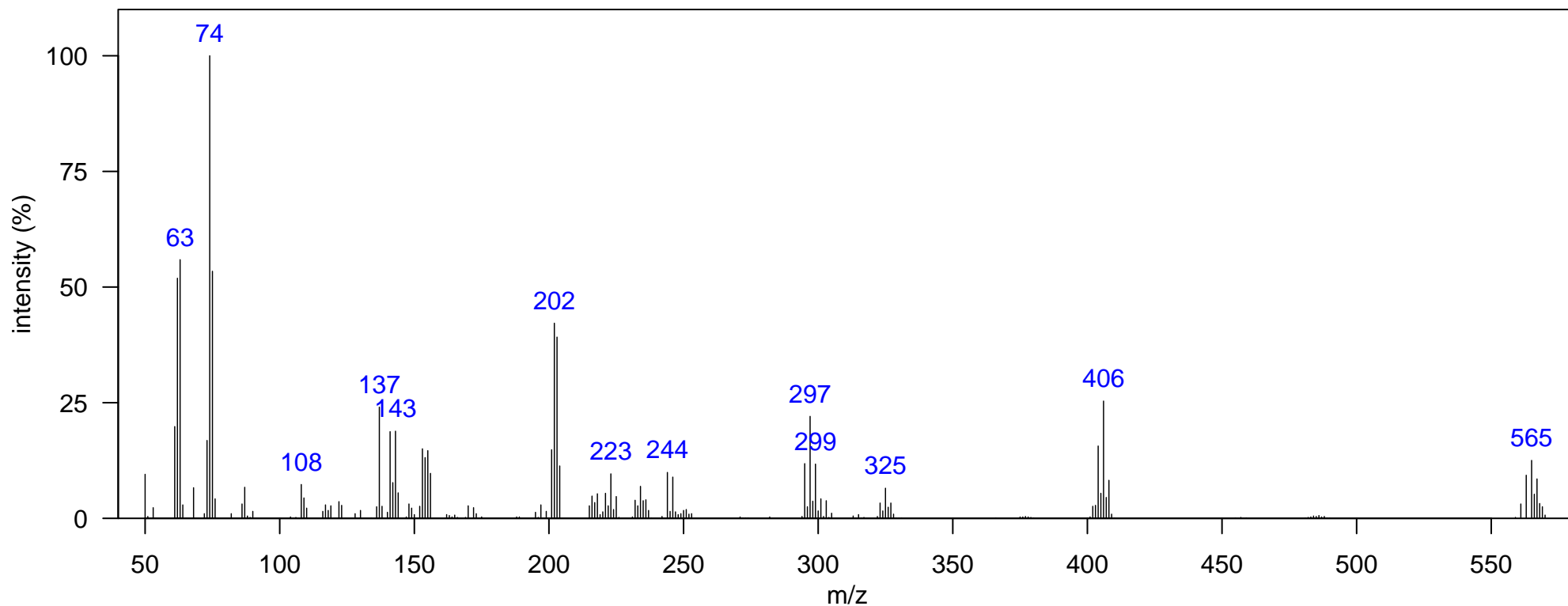
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 5Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
402 [M-Br <sub>2</sub> ] <sup>+</sup>
560 M <sup>+</sup>

Name: BDE-116

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1705.37, 2.158

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>O

Ecotype: coastal

Quantitative Ion m/z: 564

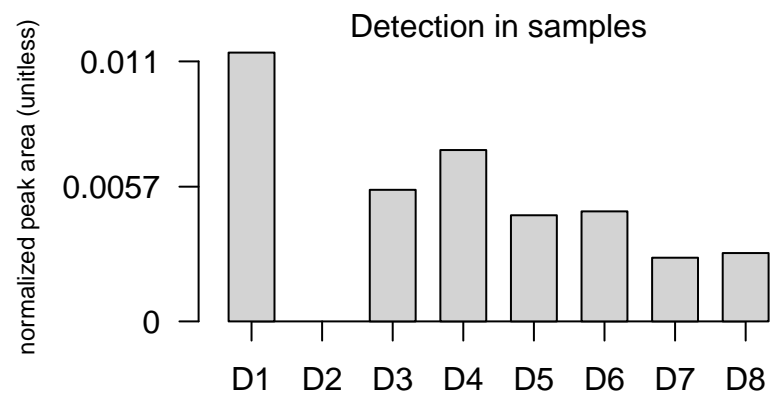
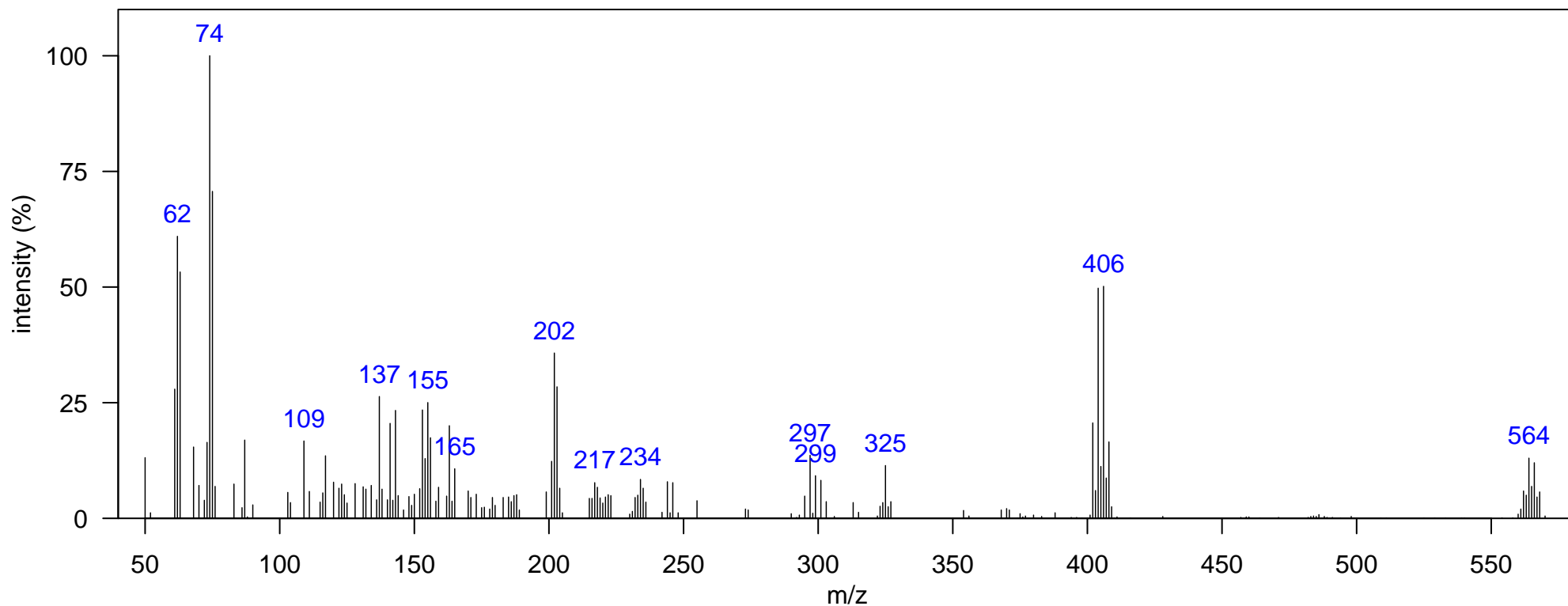
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 5Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
402 [M-Br <sub>2</sub> ] <sup>+</sup>
560 M <sup>+</sup>

Name: BDE-155

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1750.84, 2.178

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Br<sub>6</sub>O

Ecotype: coastal

Quantitative Ion m/z: 644

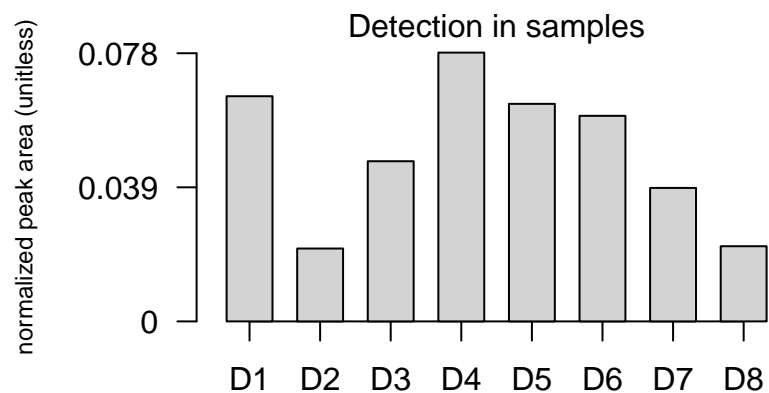
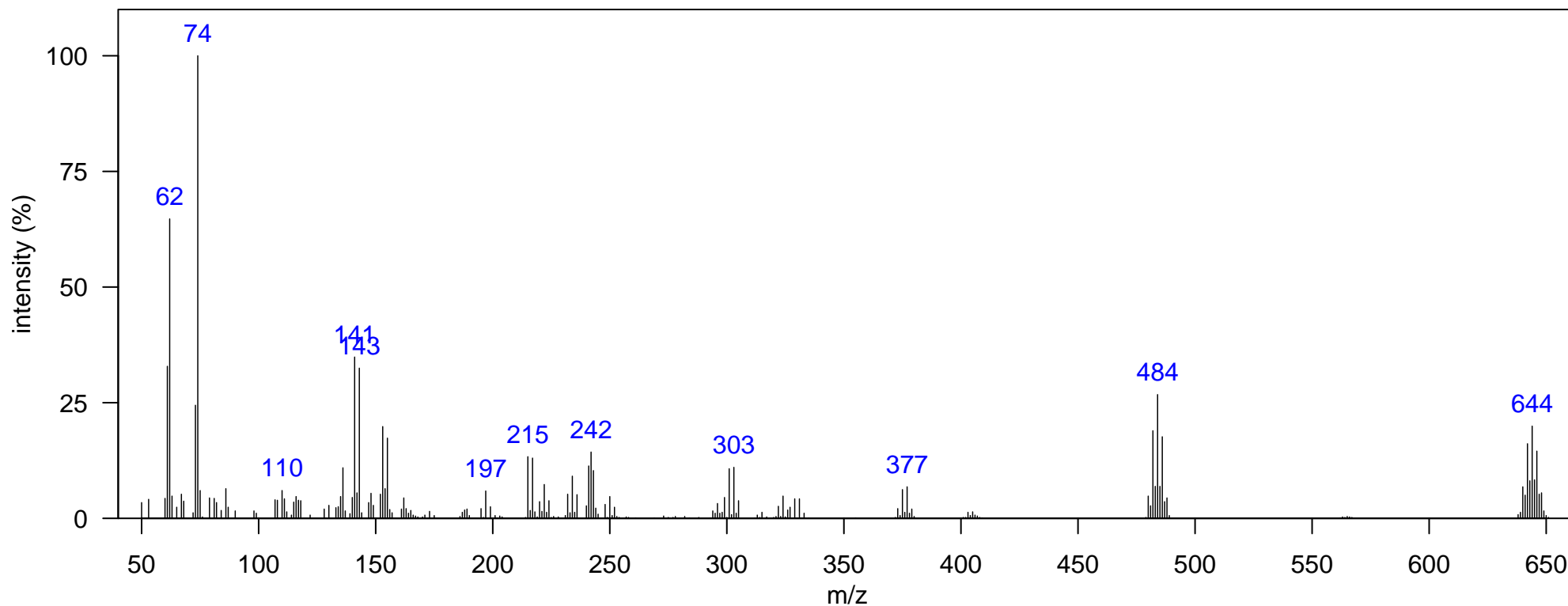
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 6Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
480 [M-Br <sub>2</sub> ] <sup>+</sup>
638 M <sup>+</sup>

Name: BDE-154

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1768.33, 2.237

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Br<sub>6</sub>O

Ecotype: coastal

Quantitative Ion m/z: 644

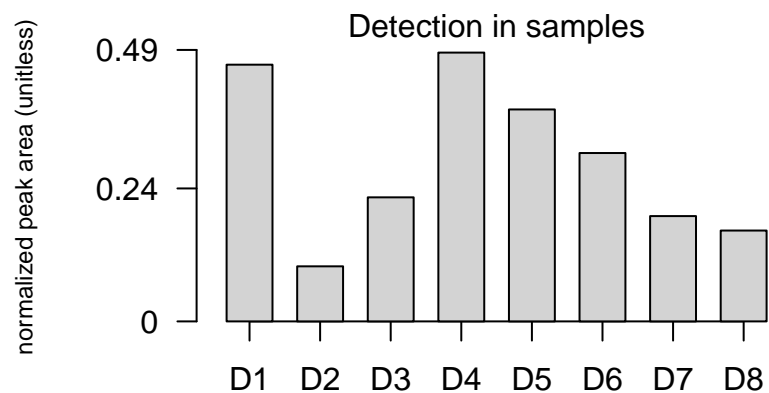
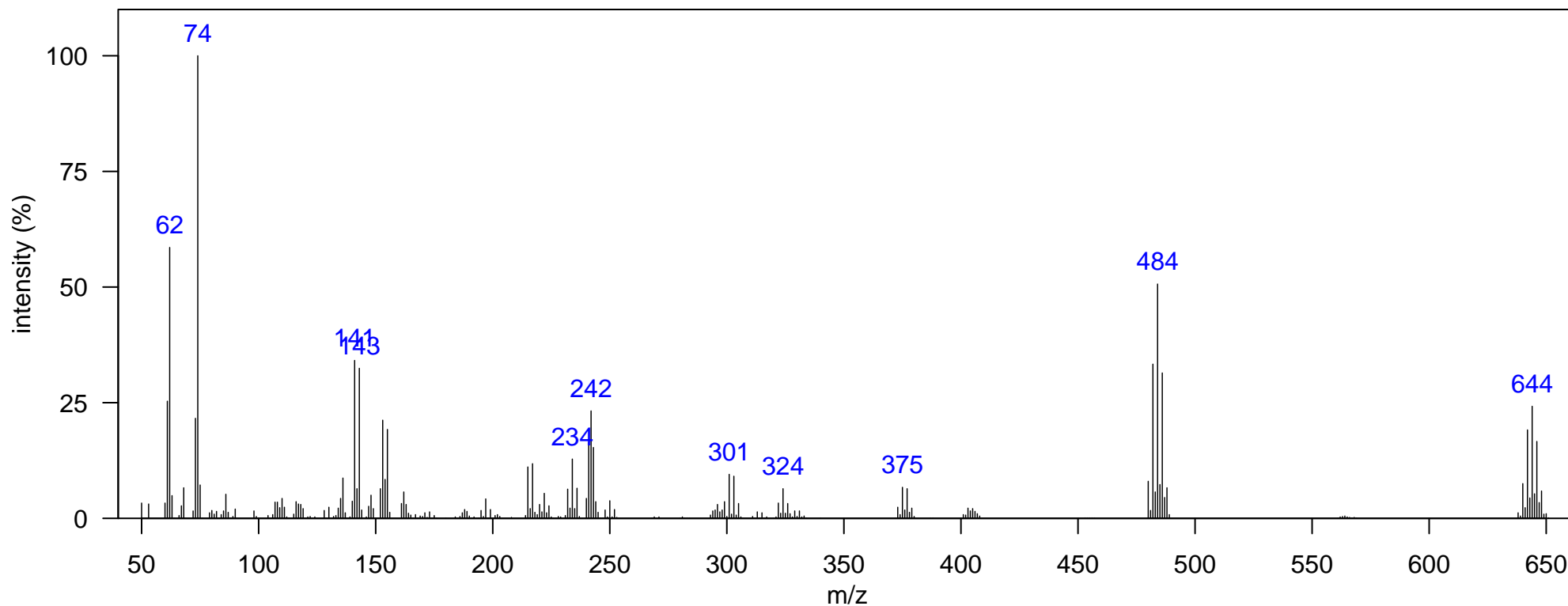
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 6Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
480 [M-Br <sub>2</sub> ] <sup>+</sup>
638 M <sup>+</sup>

Name: BDE-153

Class: PBDE

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1817.3, 2.429

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Br<sub>6</sub>O

Ecotype: coastal

Quantitative Ion m/z: 644

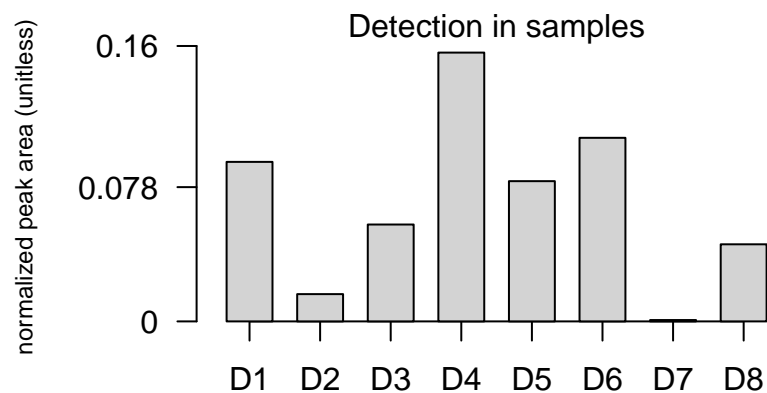
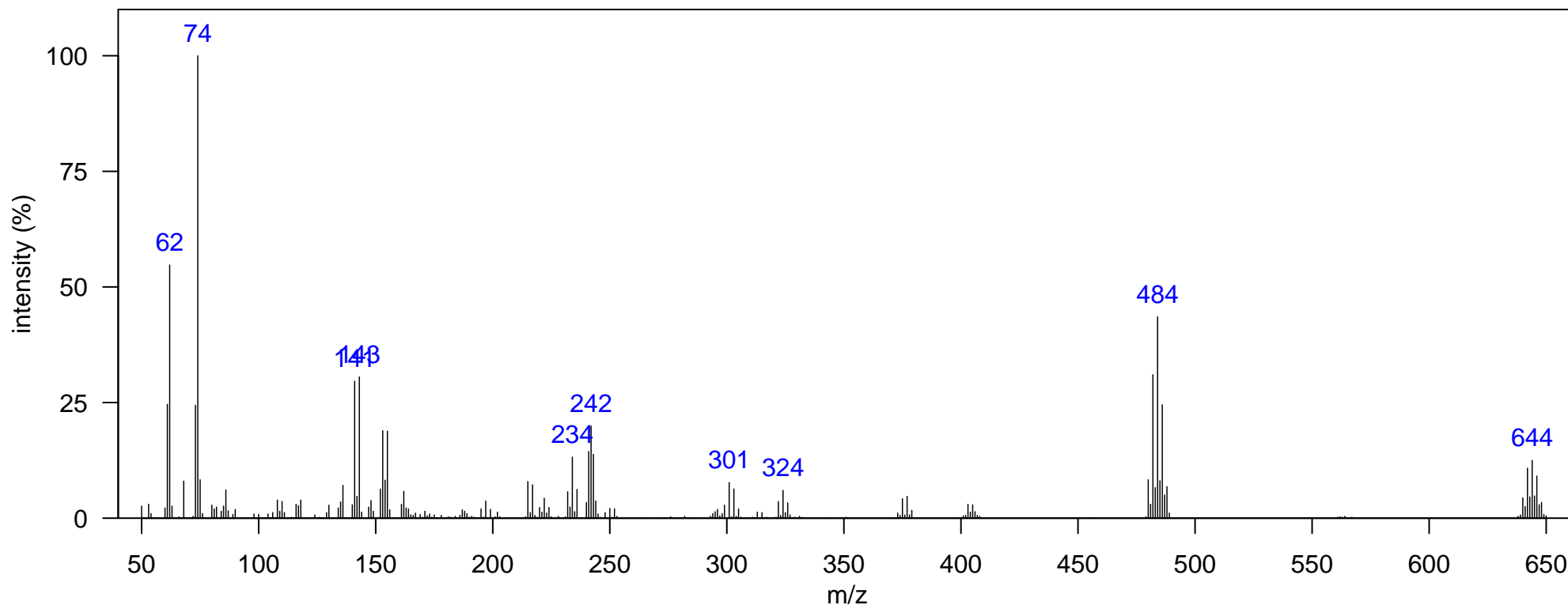
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated diphenyl ether 6Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]

480 [M-Br<sub>2</sub>]<sup>+</sup>

638 M<sup>+</sup>

Name: BB-52

Class: PBB

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1443.02, 1.452

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>

Ecotype: coastal

Quantitative Ion m/z: 470

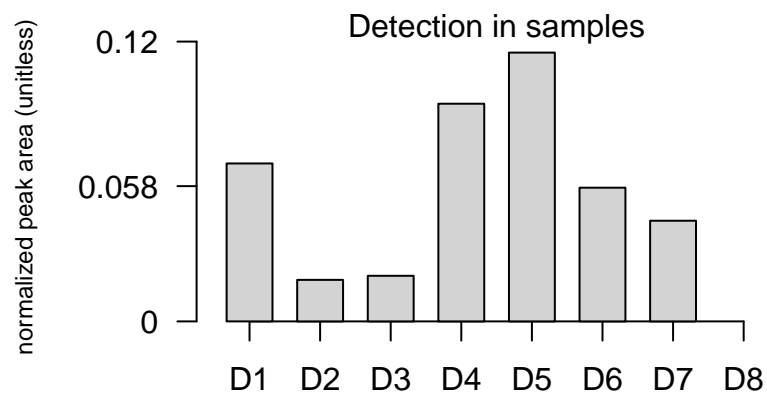
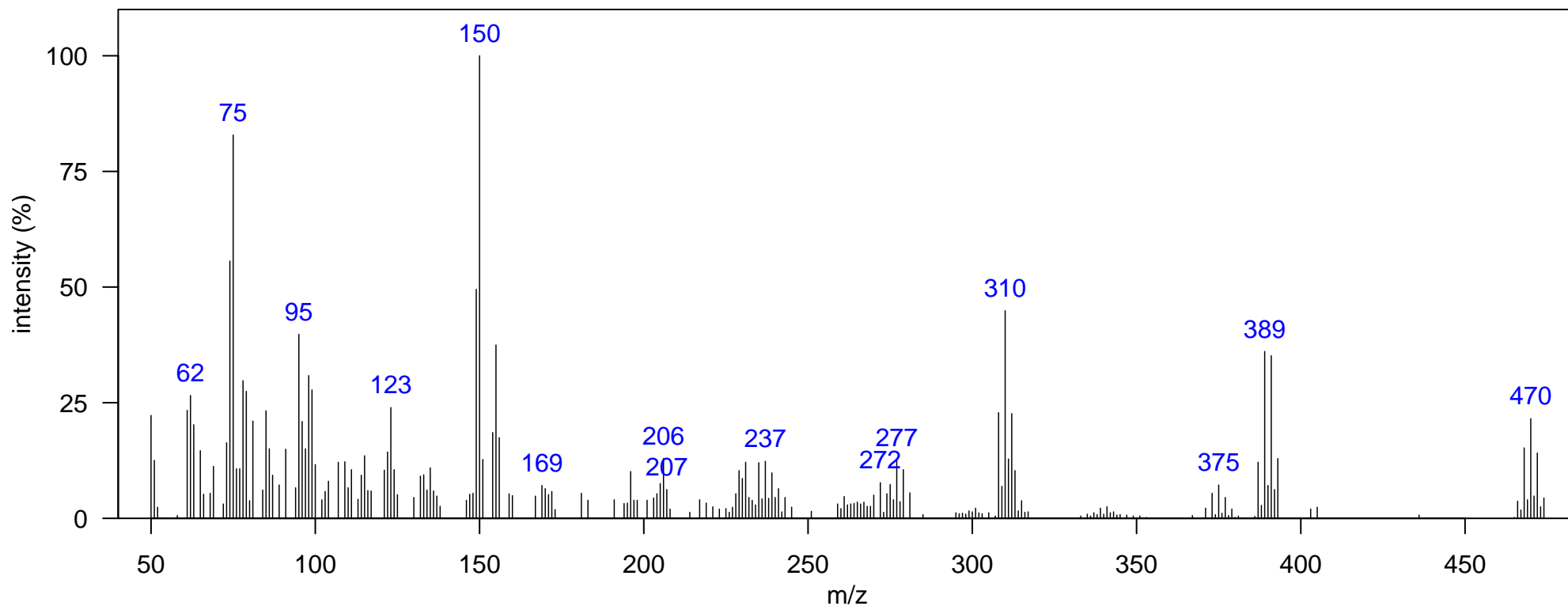
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 4Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
308 [M-Br <sub>2</sub> ] <sup>+</sup>
387 [M-Br] <sup>+</sup>
466 M <sup>+</sup>



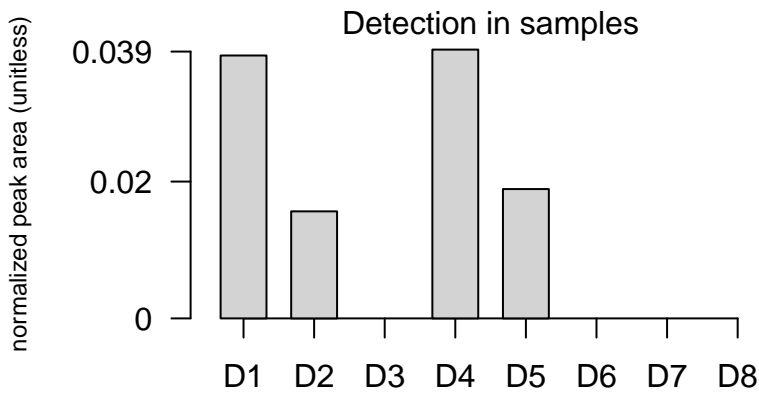
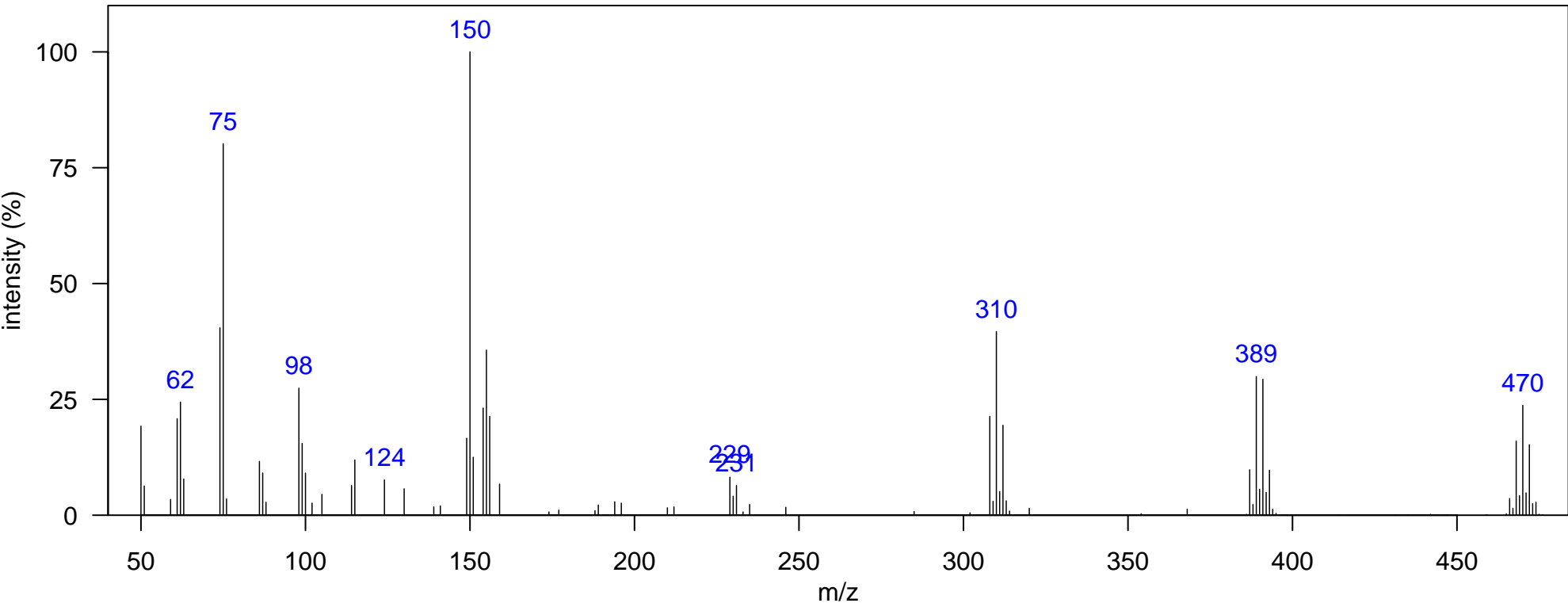
Name: BB-49

Class: PBB

Sample: SoCal dolphin blubber D1, KZP0086  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1457.01, 1.485  
Quantitative Ion m/z: 470  
Atlantic Lib: polybrominated biphenyl 4Br

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



m/z [Fragment]
308 [M-Br <sub>2</sub> ] <sup>+</sup>
387 [M-Br] <sup>+</sup>
466 M <sup>+</sup>

Name: BB 4Br 1

Class: PBB

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1464.01, 1.492

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>

Ecotype: coastal

Quantitative Ion m/z: 470

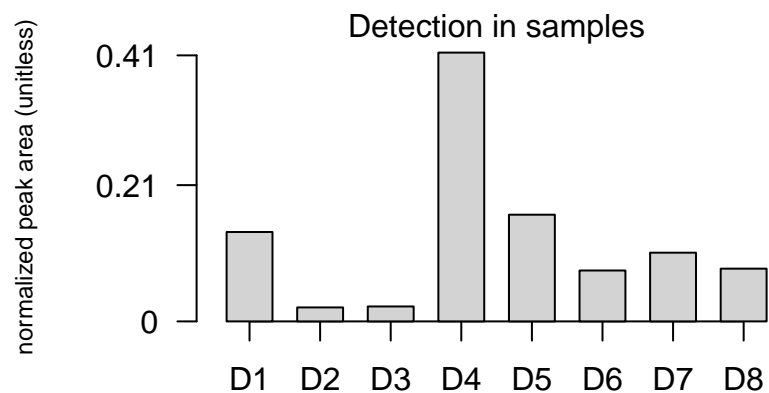
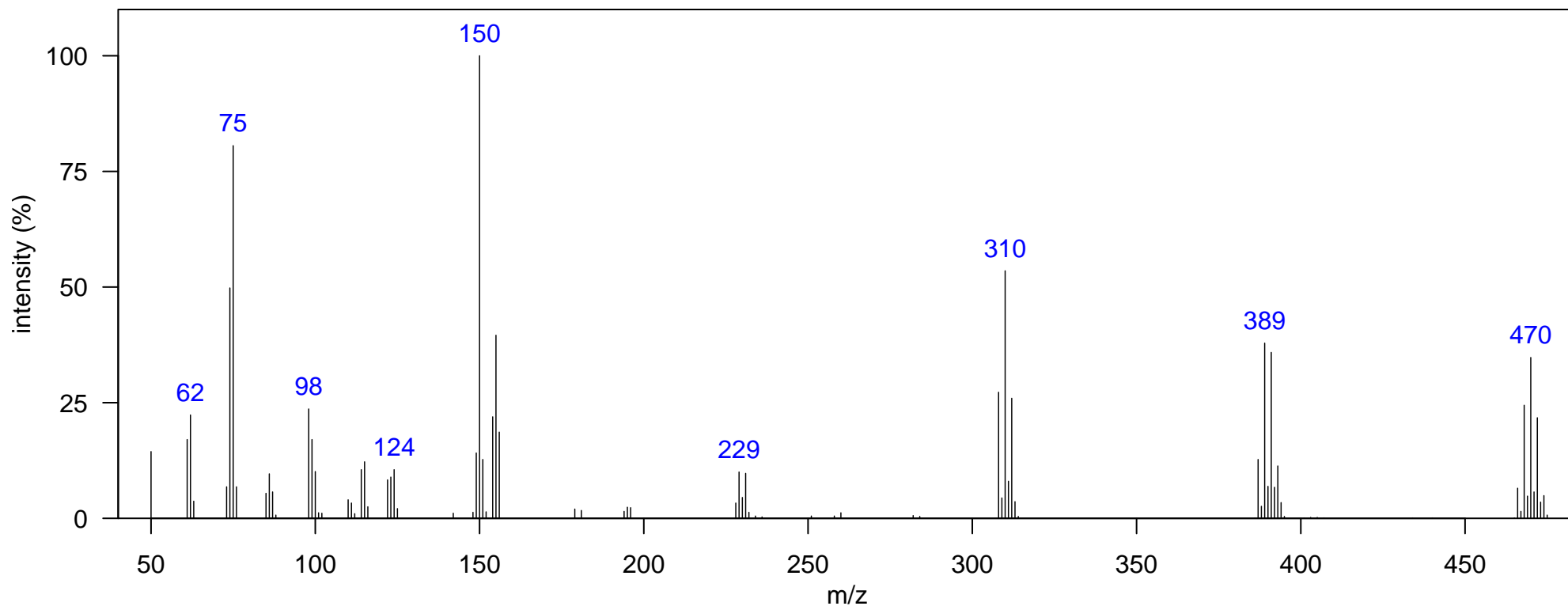
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 4Br

Identification: Manual-Congener Group

Comment:



m/z [Fragment]

308 [M-Br<sub>2</sub>]<sup>+</sup>

387 [M-Br]<sup>+</sup>

466 M<sup>+</sup>

Name: BB 4Br 2

Class: PBB

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1526.97, 1.657

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>

Ecotype: coastal

Quantitative Ion m/z: 470

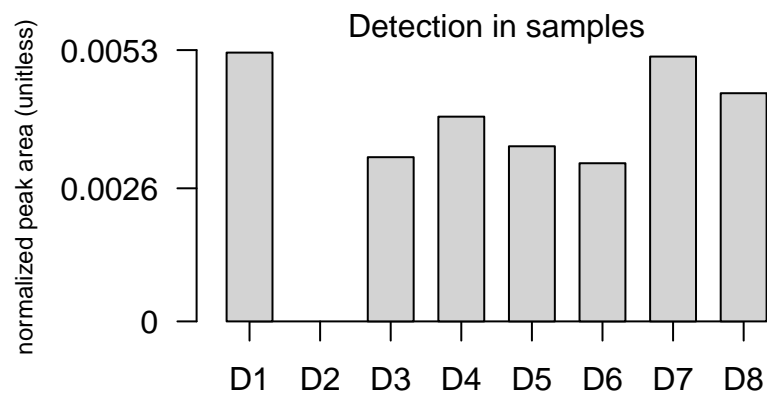
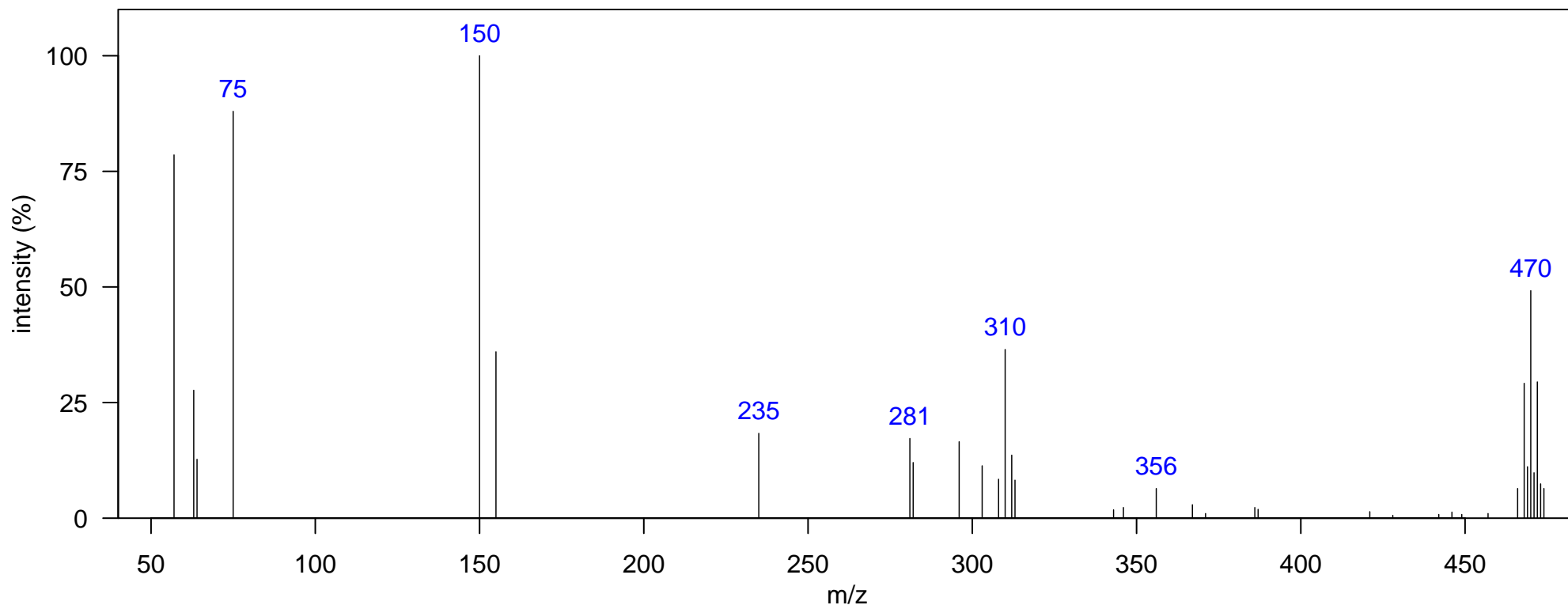
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 4Br

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
308 [M-Br <sub>2</sub> ] <sup>+</sup>
387 [M-Br] <sup>+</sup>
466 M <sup>+</sup>

Name: BB 4Br 3

Class: PBB

Sample: SoCal dolphin blubber D4, JEH0504

1D RT, 2D RT (s): 1586.44, 1.366

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>4</sub>

Ecotype: offshore

Quantitative Ion m/z: 470

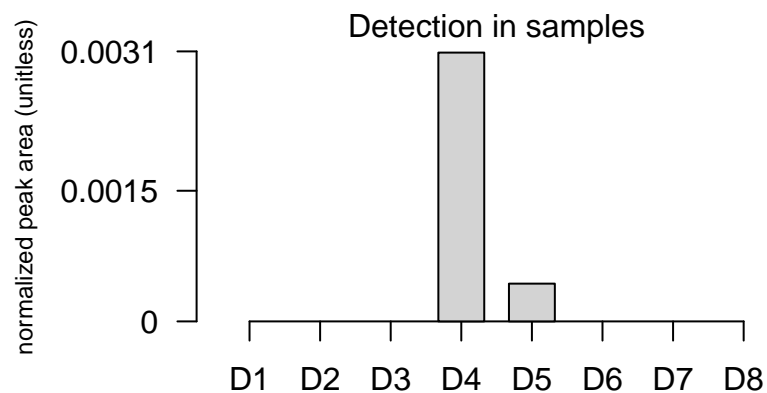
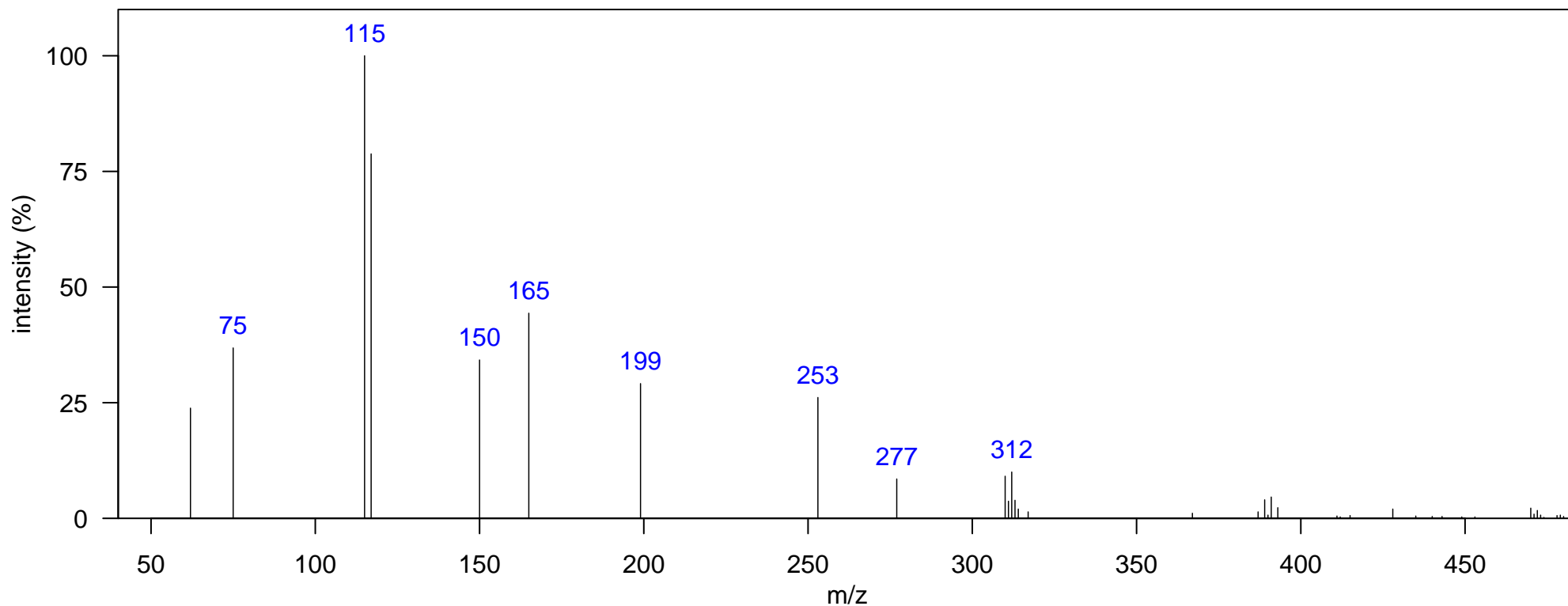
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 4Br

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
387 [M-Br]⁺
466 M⁺

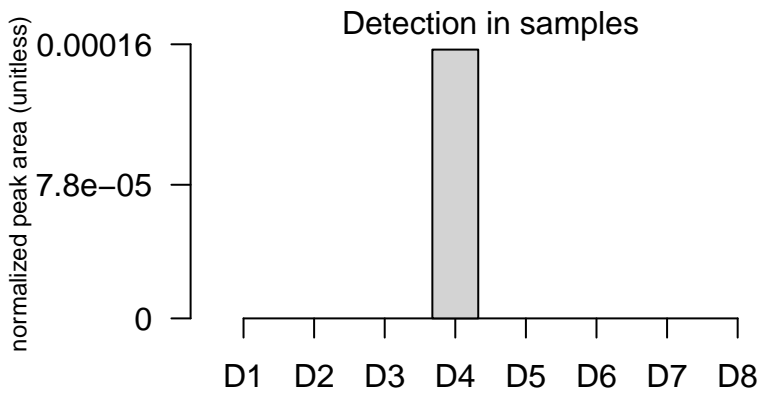
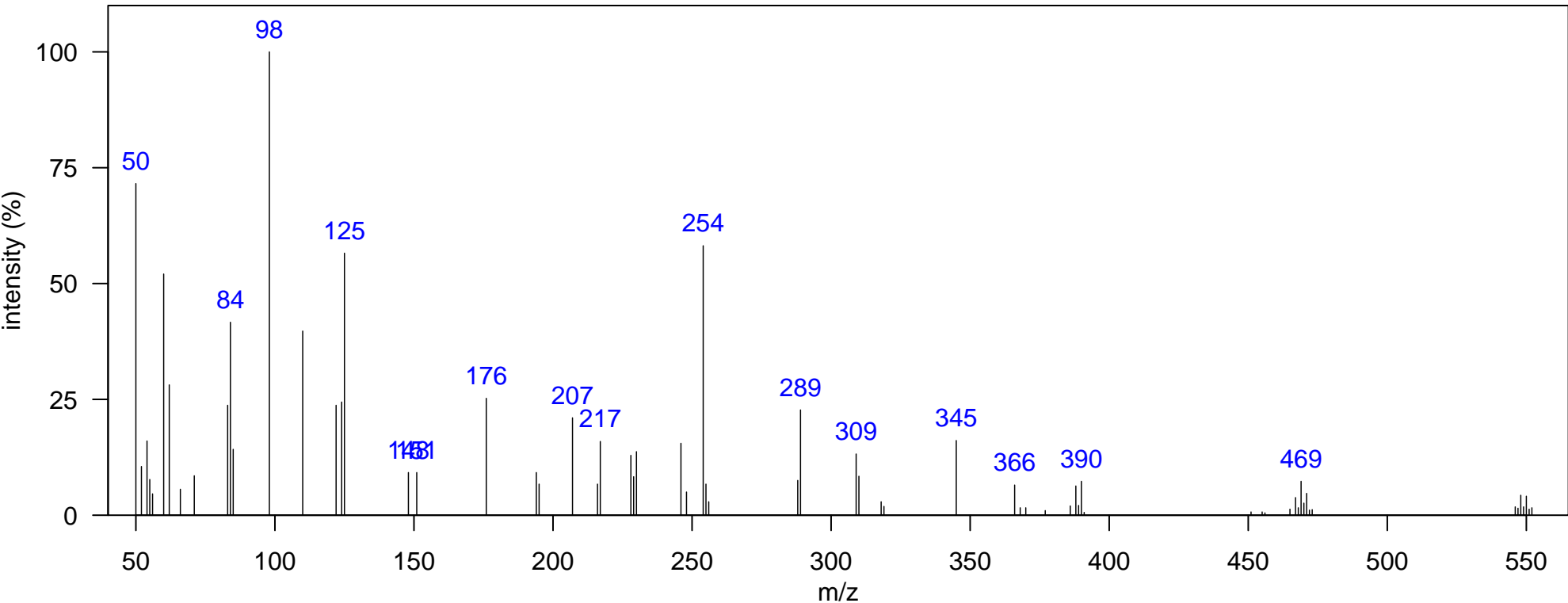
Name: BB 5Br 1

Class: PBB

Sample: SoCal dolphin blubber D4, JEH0504  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1558.45, 1.795  
Quantitative Ion m/z: 548  
Atlantic Lib: polybrominated biphenyl 5Br

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>  
Source: anthropogenic  
Identification: Manual-Congener Group



m/z [Fragment]
386 [M-Br2]+
465 [M-Br]+
544 M+

Name: BB-101

Class: PBB

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1593.43, 1.848

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>

Ecotype: coastal

Quantitative Ion m/z: 548

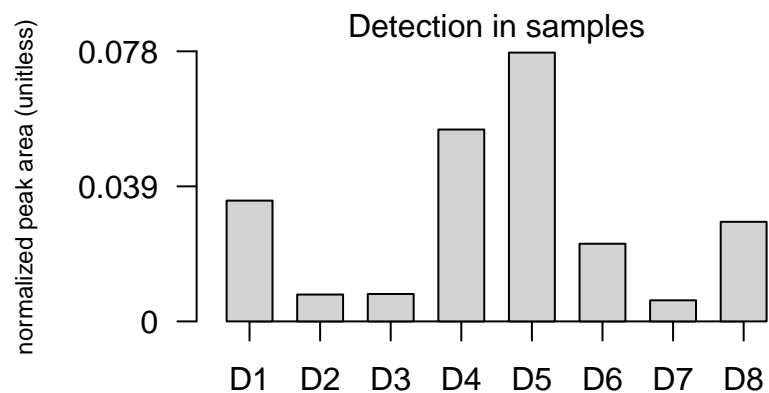
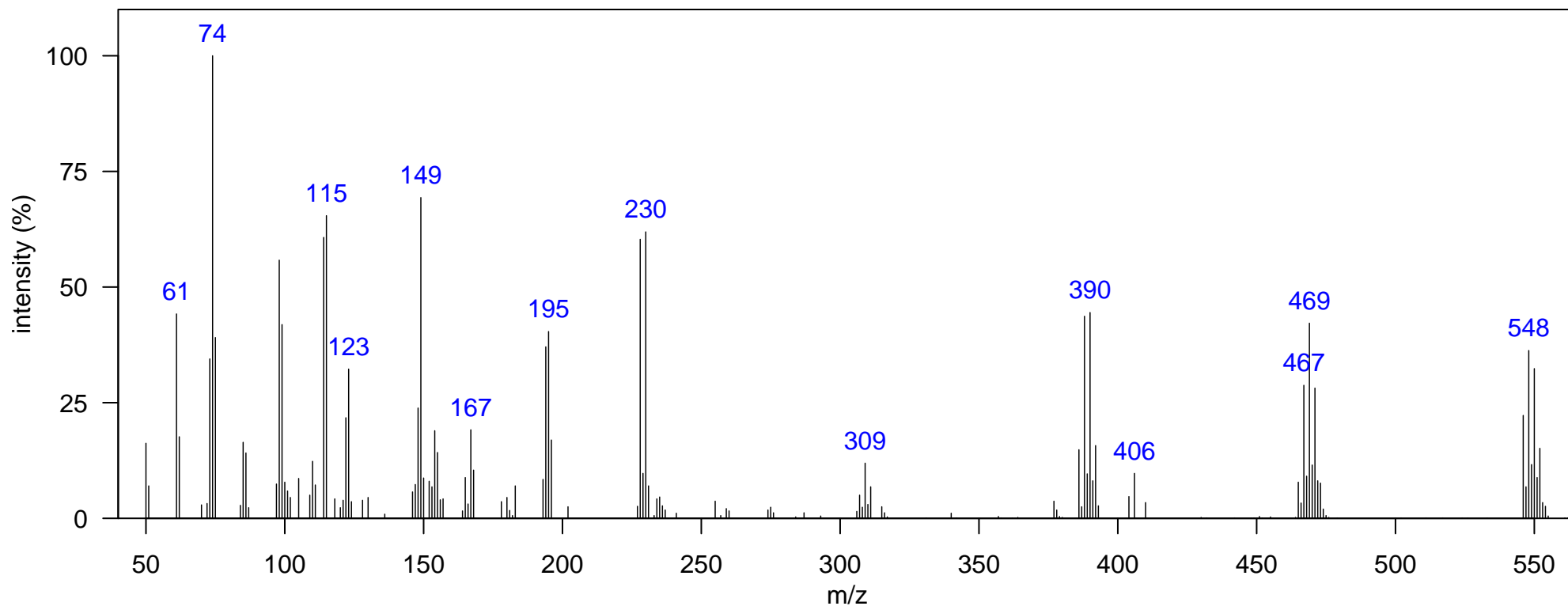
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 5Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]

386 [M-Br<sub>2</sub>]<sup>+</sup>

465 [M-Br]<sup>+</sup>

544 M<sup>+</sup>

Name: BB 5Br 2

Class: PBB

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1607.42, 1.927

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>

Ecotype: coastal

Quantitative Ion m/z: 548

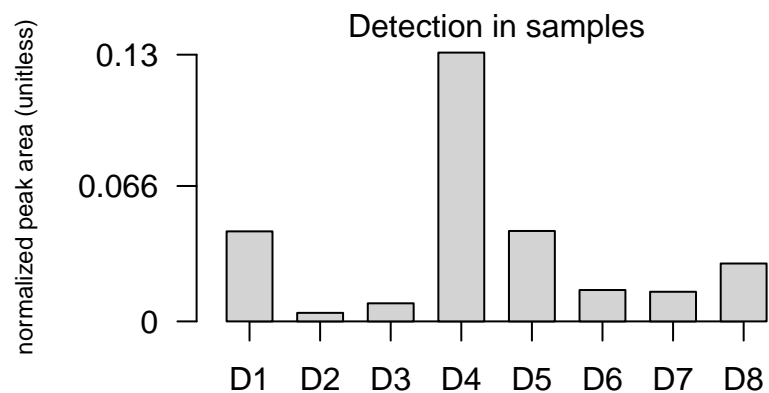
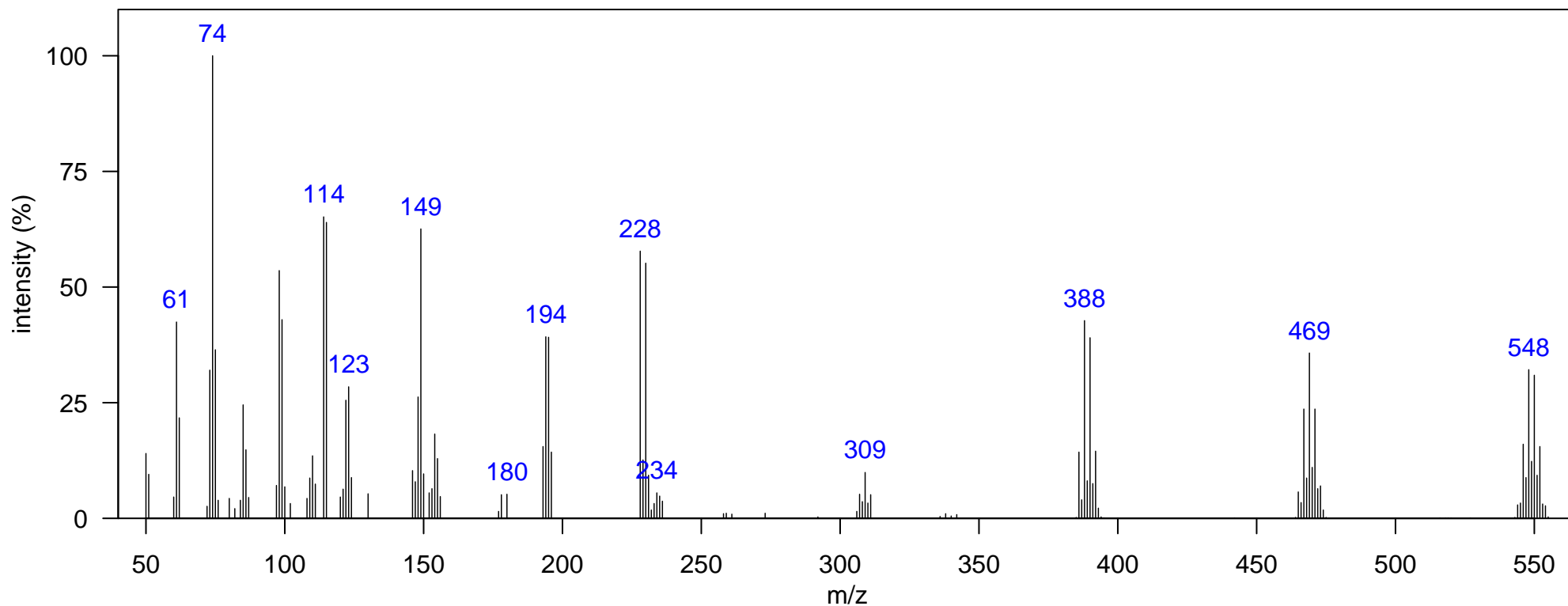
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 5Br

Identification: Manual-Congener Group

Comment:



m/z [Fragment]

386 [M-Br<sub>2</sub>]<sup>+</sup>

465 [M-Br]<sup>+</sup>

544 M<sup>+</sup>

Name: BB 5Br 3

Class: PBB

Sample: SoCal dolphin blubber D4, JEH0504

1D RT, 2D RT (s): 1694.87, 2.218

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>

Ecotype: offshore

Quantitative Ion m/z: 548

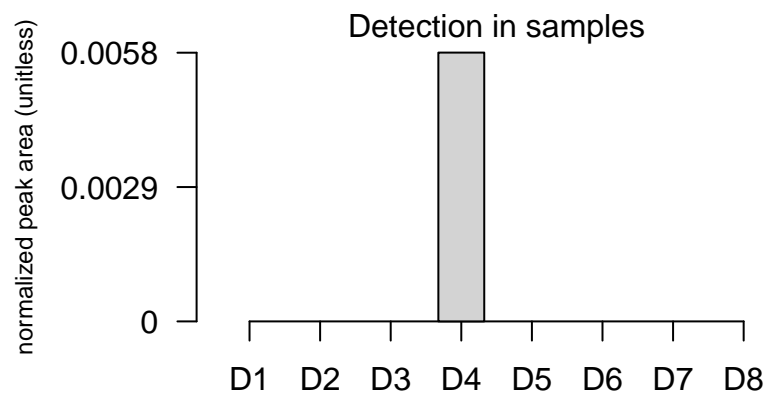
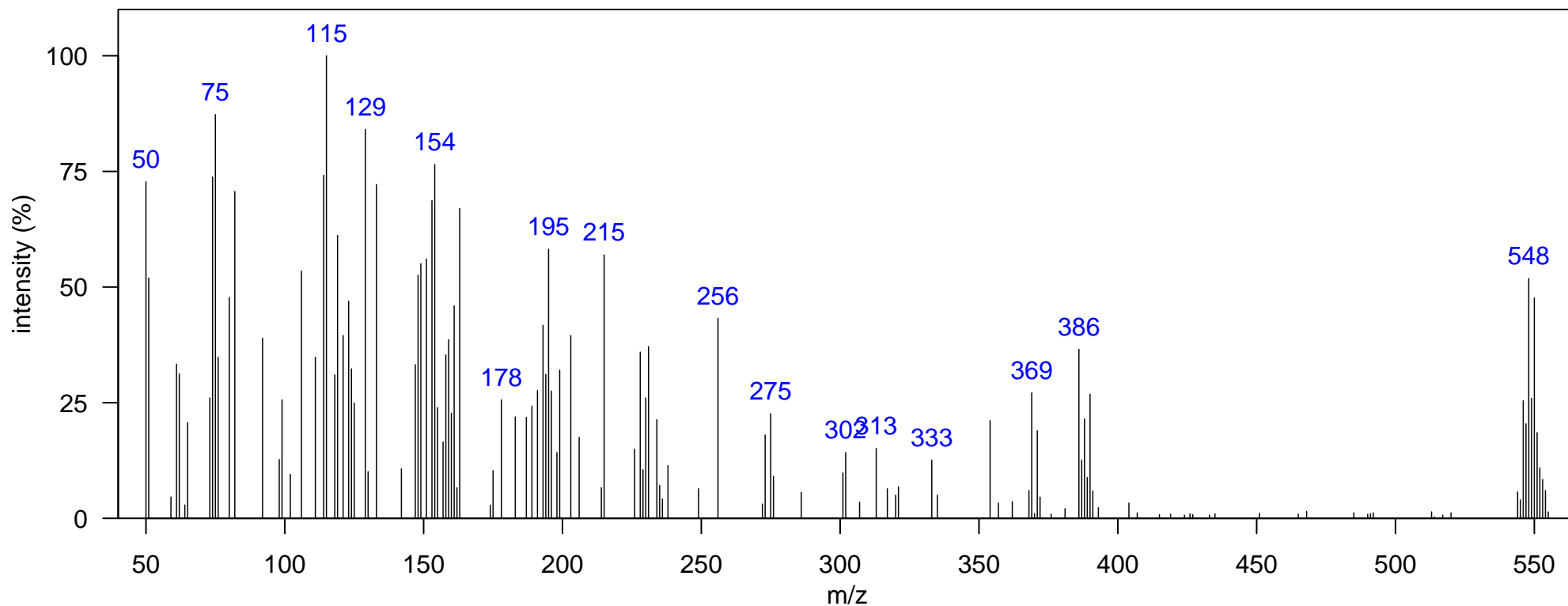
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 5Br

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
386 [M-Br <sub>2</sub> ] <sup>+</sup>
465 [M-Br] <sup>+</sup>
544 M <sup>+</sup>



Name: BB 5Br 4

Class: PBB

Sample: SoCal dolphin blubber D4, JEH0504

1D RT, 2D RT (s): 1768.33, 1.571

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>

Ecotype: offshore

Quantitative Ion m/z: 548

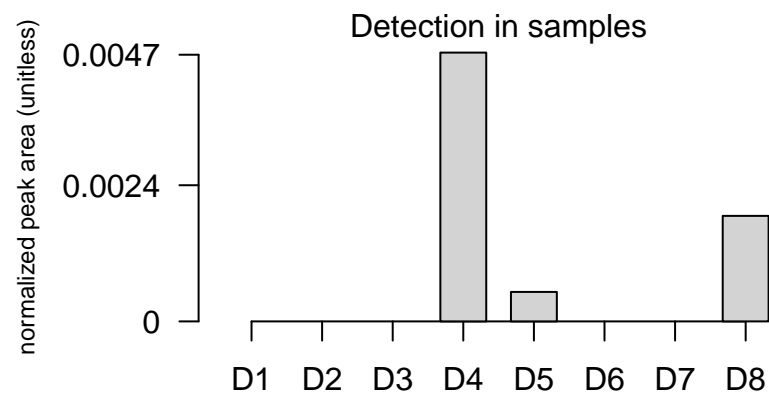
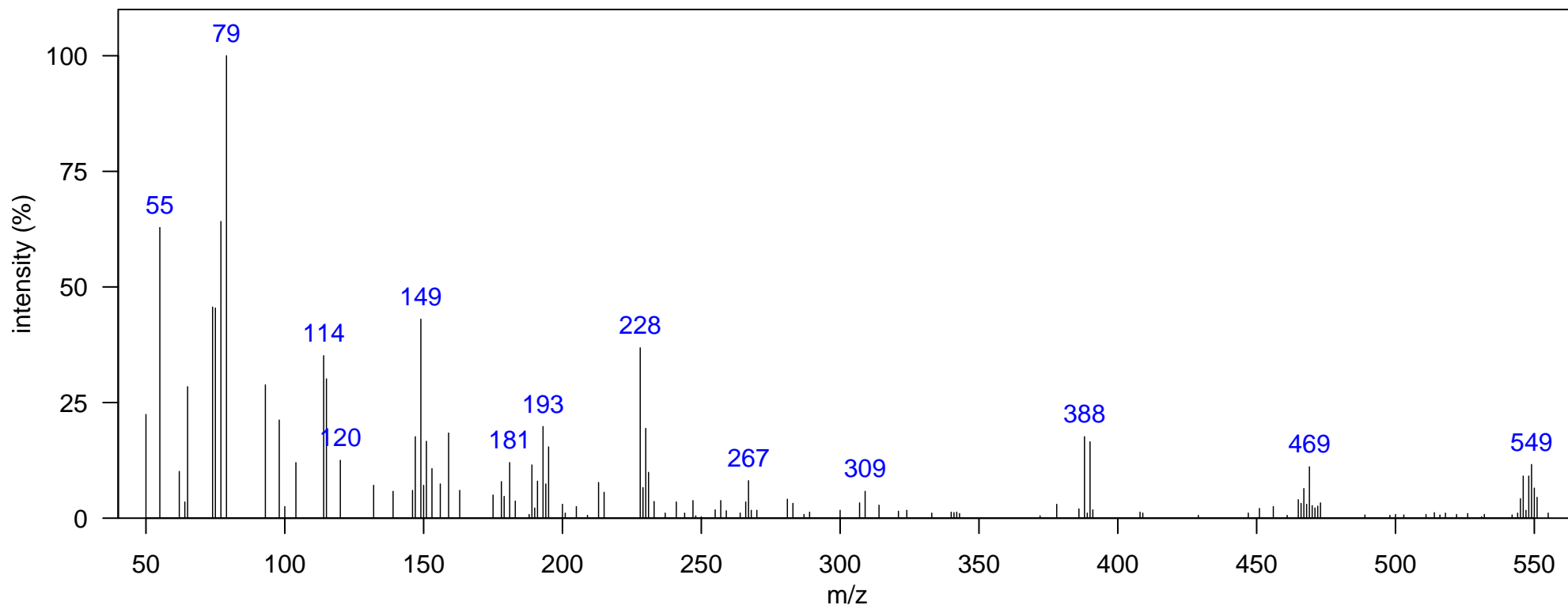
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 5Br

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
386 [M-Br <sub>2</sub> ] <sup>+</sup>
465 [M-Br] <sup>+</sup>
544 M <sup>+</sup>

Name: BB-153

Class: PBB

Sample: SoCal dolphin blubber D1, KZP0086

1D RT, 2D RT (s): 1771.83, 2.251

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Br<sub>6</sub>

Ecotype: coastal

Quantitative Ion m/z: 628

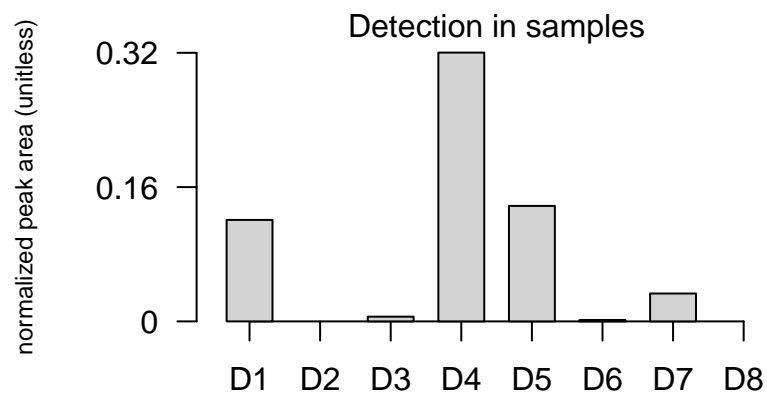
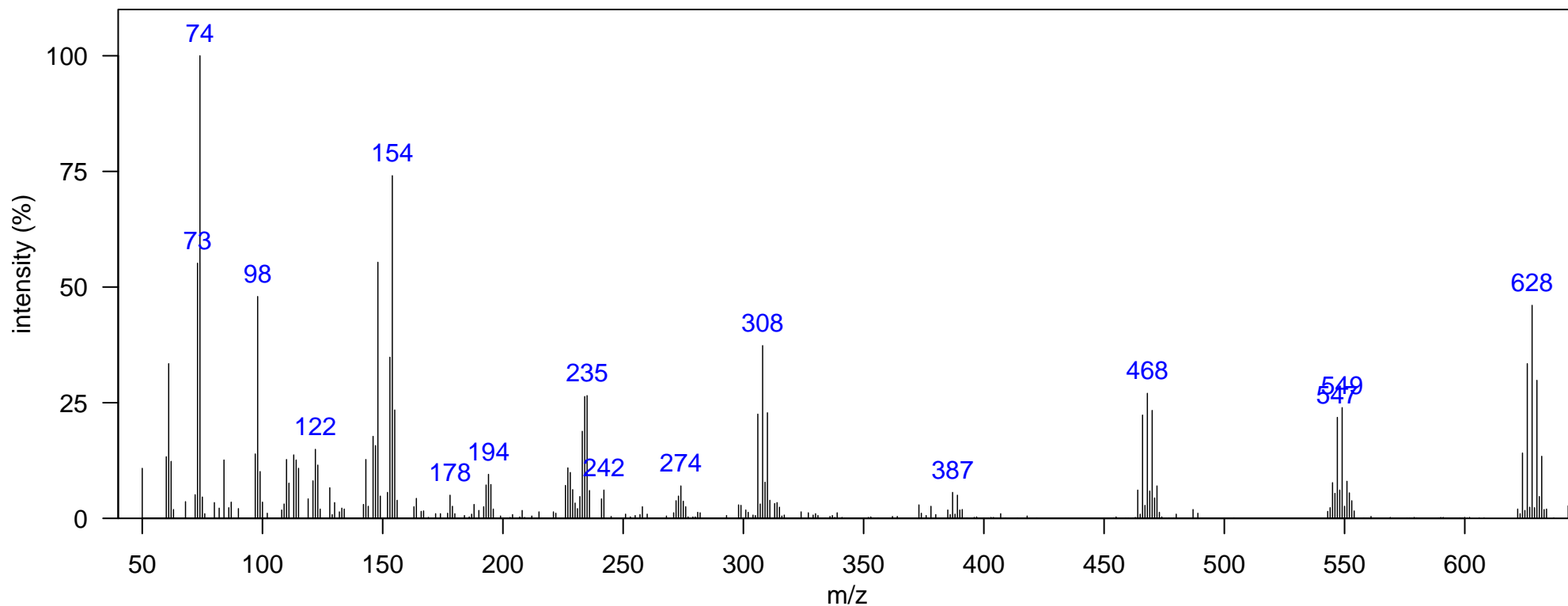
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 6Br

Identification: Authentic MS RT

Comment:



m/z [Fragment]
464 [M-Br <sub>2</sub> ] <sup>+</sup>
543 [M-Br] <sup>+</sup>
622 M <sup>+</sup>

Name: BB 6Br 1

Class: PBB

Sample: SoCal dolphin blubber D5, JEH0472

1D RT, 2D RT (s): 1733.35, 2.211

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Br<sub>6</sub>

Ecotype: coastal

Quantitative Ion m/z: 628

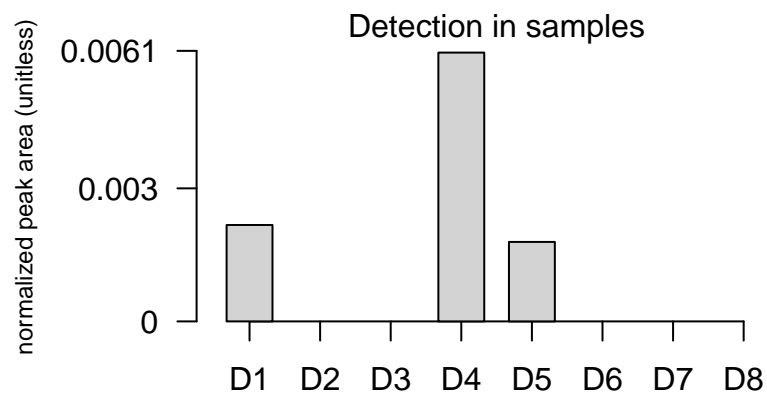
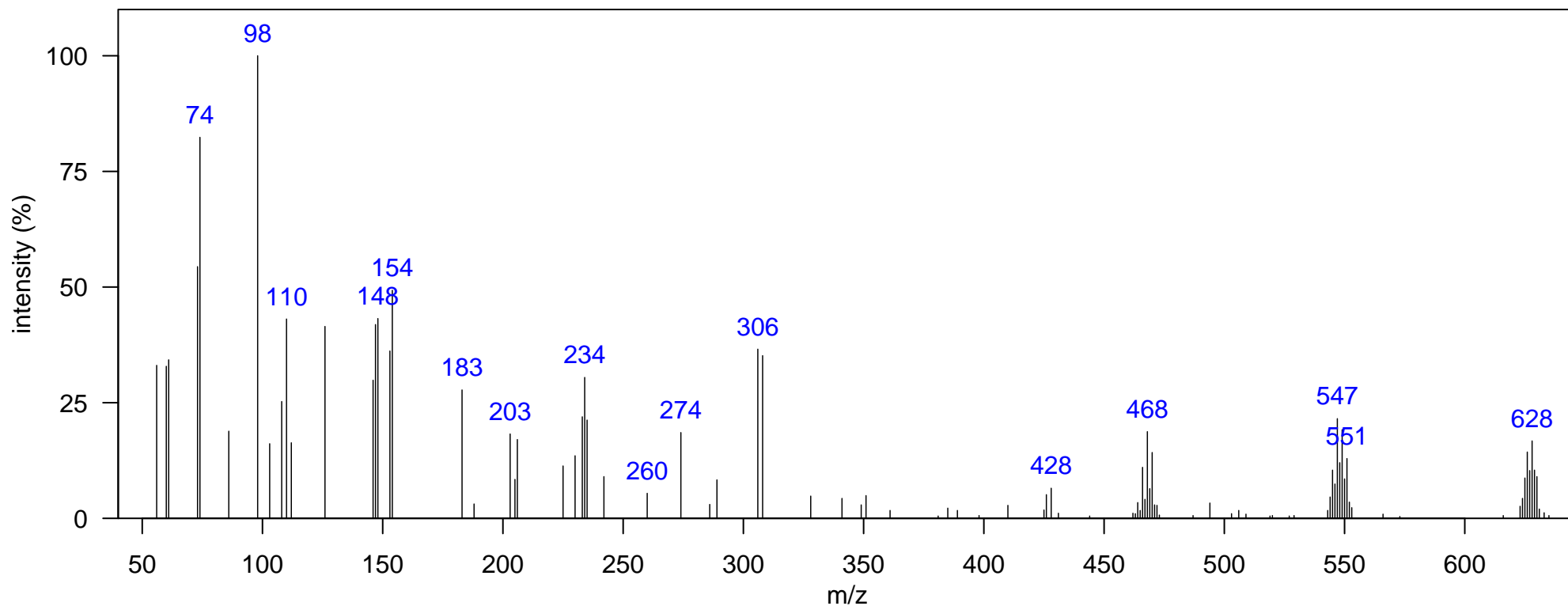
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 6Br

Identification: Authentic MS

Comment:



m/z [Fragment]
464 [M-Br <sub>2</sub> ] <sup>+</sup>
543 [M-Br] <sup>+</sup>
622 M <sup>+</sup>

Name: BB 6Br 2

Class: PBB

Sample: SoCal dolphin blubber D4, JEH0504

1D RT, 2D RT (s): 1817.3, 2.6

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Br<sub>6</sub>

Ecotype: offshore

Quantitative Ion m/z: 628

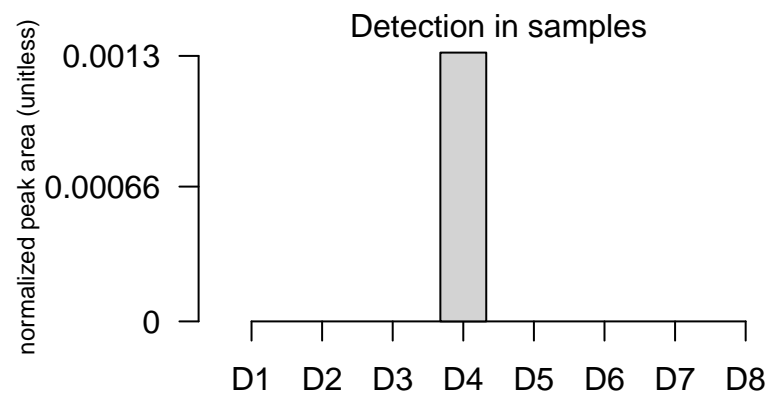
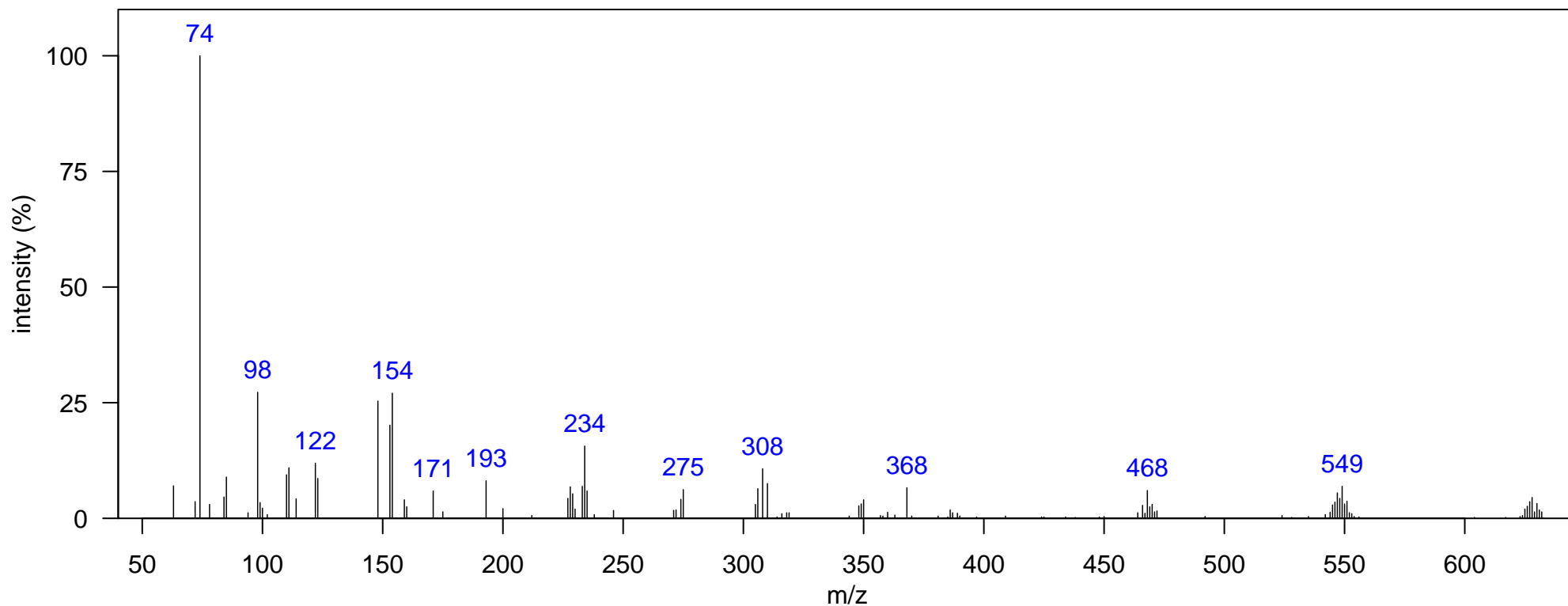
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polybrominated biphenyl 6Br

Identification: Authentic MS

Comment:



m/z [Fragment]
464 [M-Br <sub>2</sub> ] <sup>+</sup>
543 [M-Br] <sup>+</sup>
622 M <sup>+</sup>

Name: terphenyl 4Cl 1

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1495.49, 1.478

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

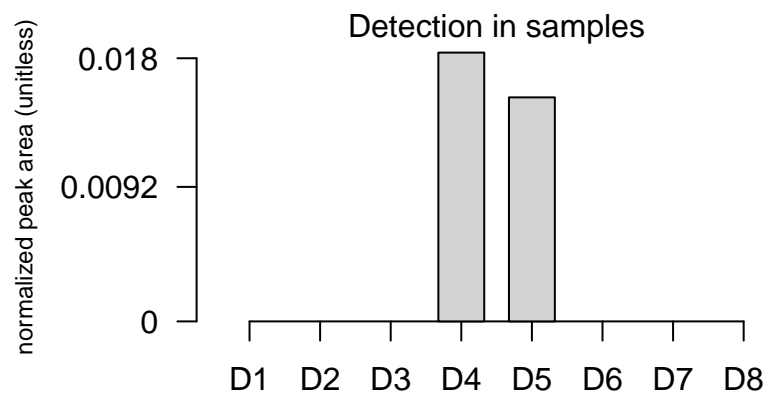
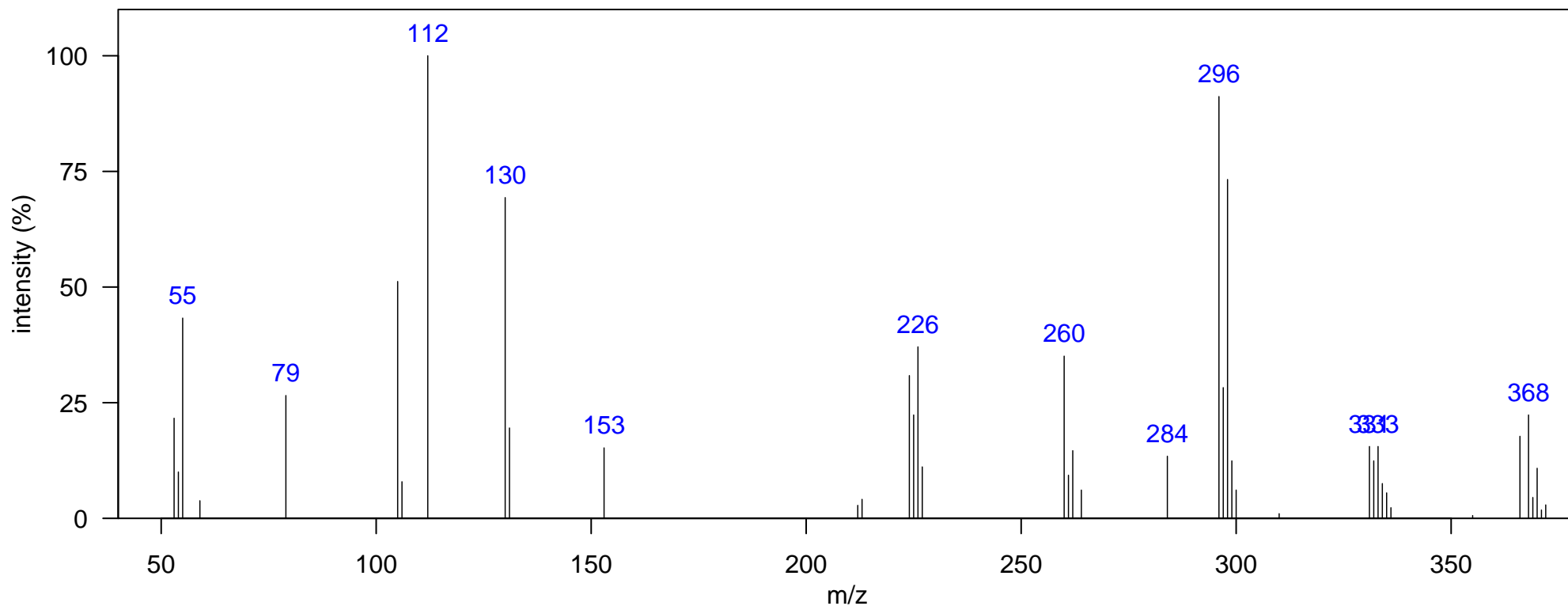
Quantitative Ion m/z: 368

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Literature MS



m/z [Fragment]
296 [M-Cl <sub>2</sub> ] <sup>+</sup>
331 [M-Cl] <sup>+</sup>
366 M <sup>+</sup>

Name: terphenyl 4Cl 2

Class: PCT

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1533.97, 1.538

Ecotype: coastal

Quantitative Ion m/z: 368

Instrument: GCxGC-TOF, EI, 70 eV

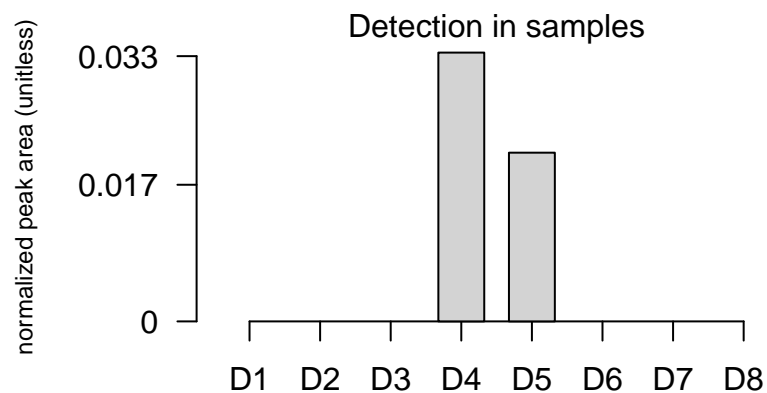
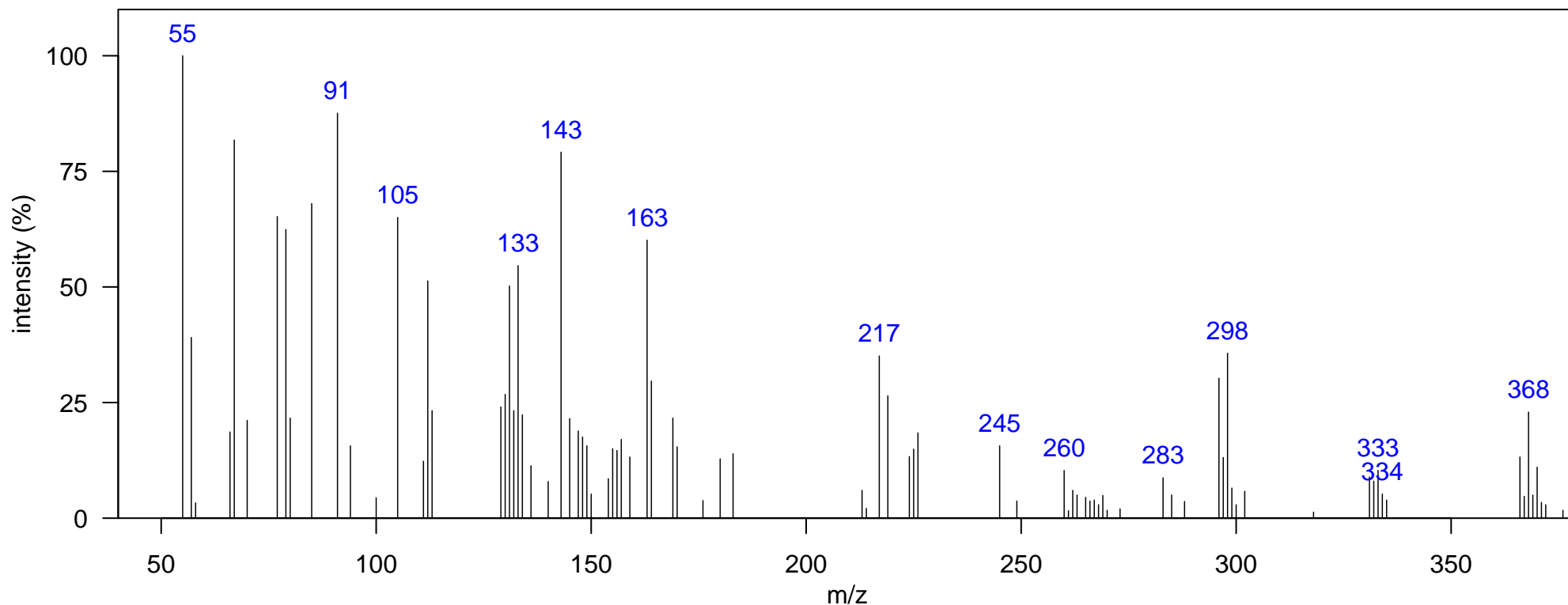
Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Comment:

Identification: Literature MS



m/z [Fragment]

296 [M-Cl<sub>2</sub>]<sup>+</sup>

331 [M-Cl]<sup>+</sup>

366 M<sup>+</sup>

Name: terphenyl 4Cl 3

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1540.96, 1.591

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

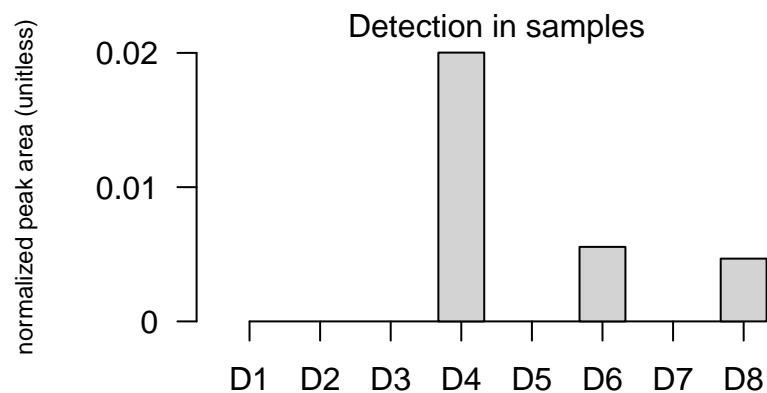
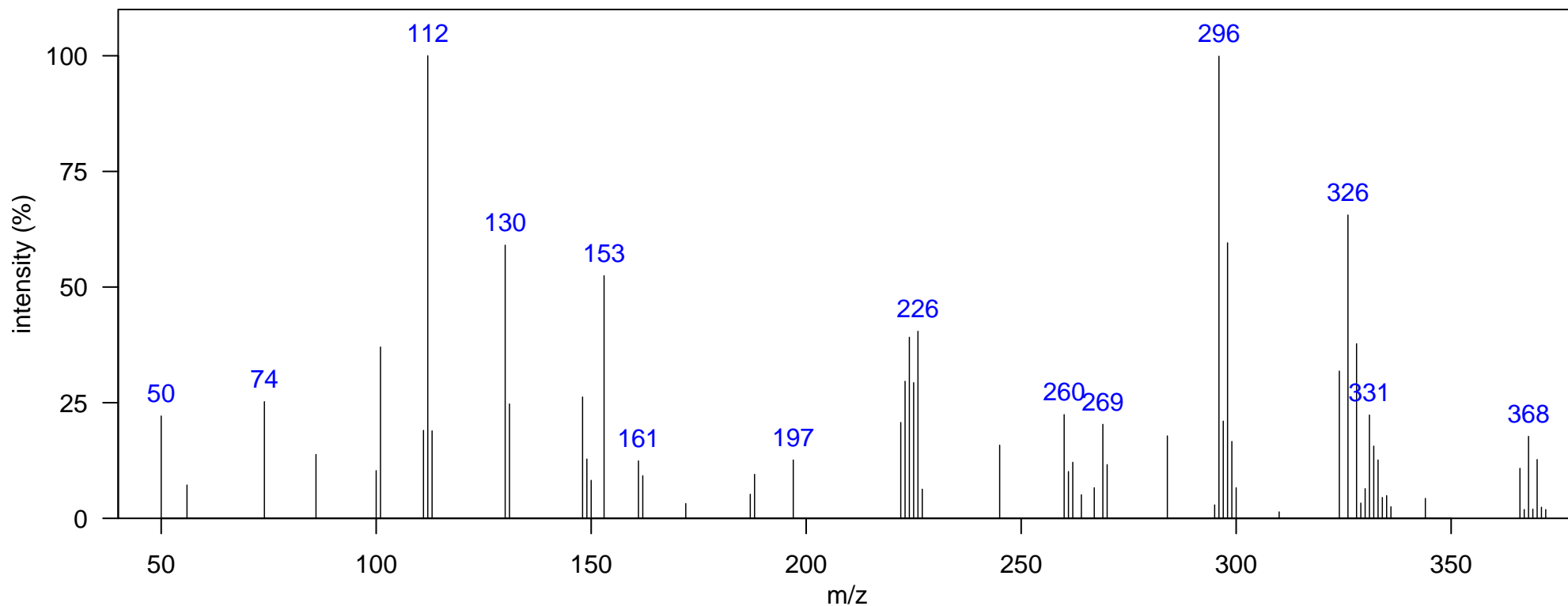
Quantitative Ion m/z: 368

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Literature MS



m/z [Fragment]
296 [M-Cl <sub>2</sub> ] <sup>+</sup>
331 [M-Cl] <sup>+</sup>
366 M <sup>+</sup>

Name: terphenyl 4Cl 4

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1568.95, 1.637

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

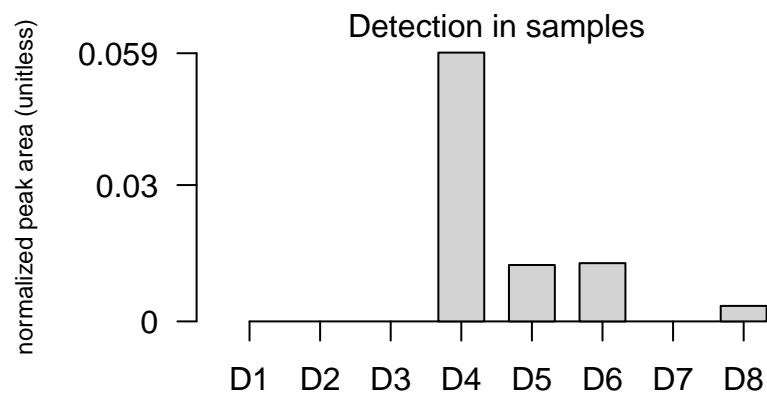
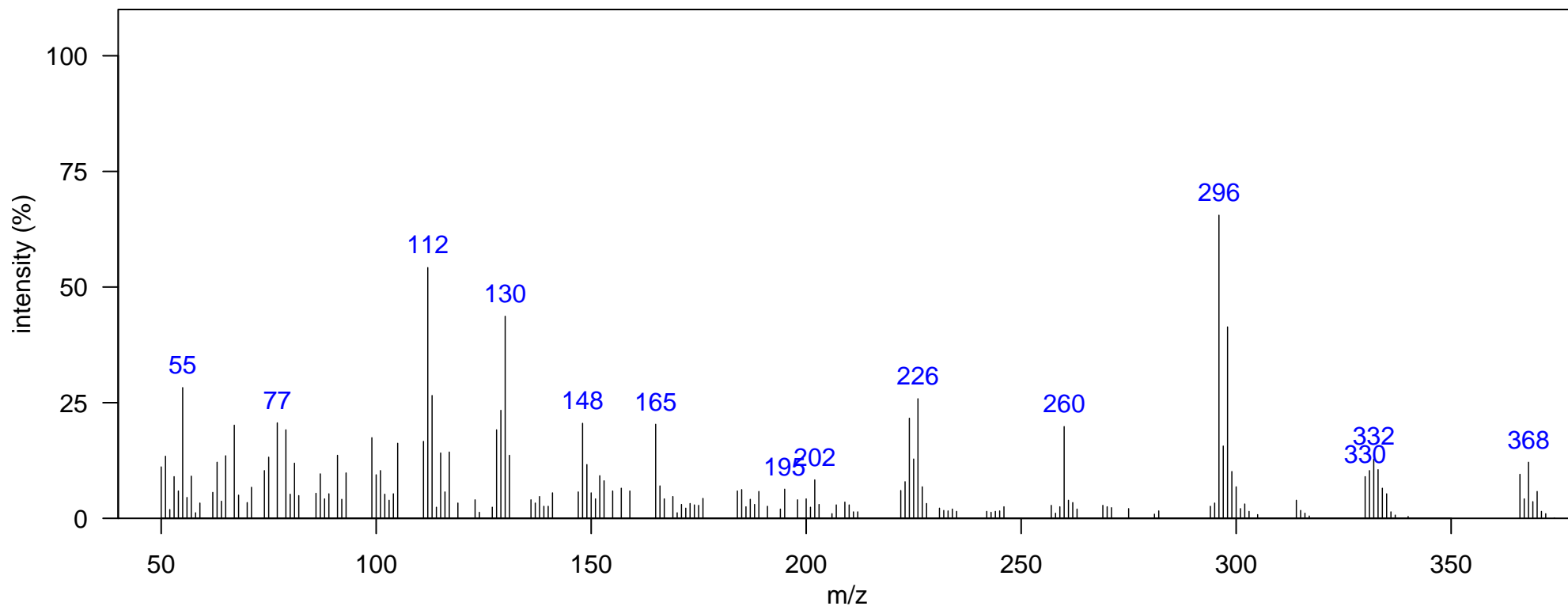
Quantitative Ion m/z: 368

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Literature MS



m/z [Fragment]
296 [M-Cl <sub>2</sub> ] <sup>+</sup>
331 [M-Cl] <sup>+</sup>
366 M <sup>+</sup>



Name: terphenyl 4Cl 5

Class: PCT

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1610.92, 1.775

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

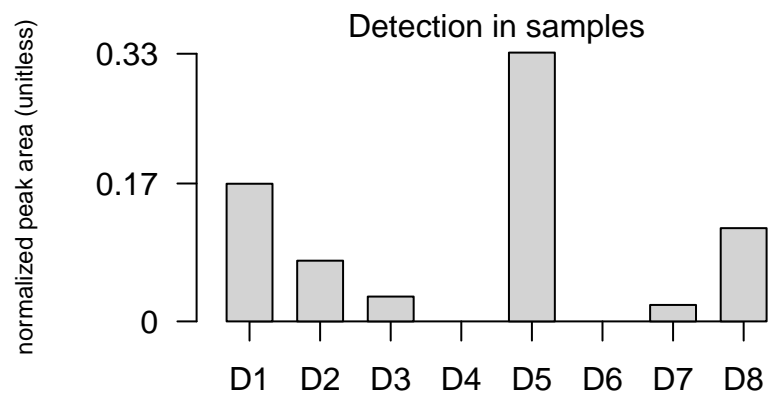
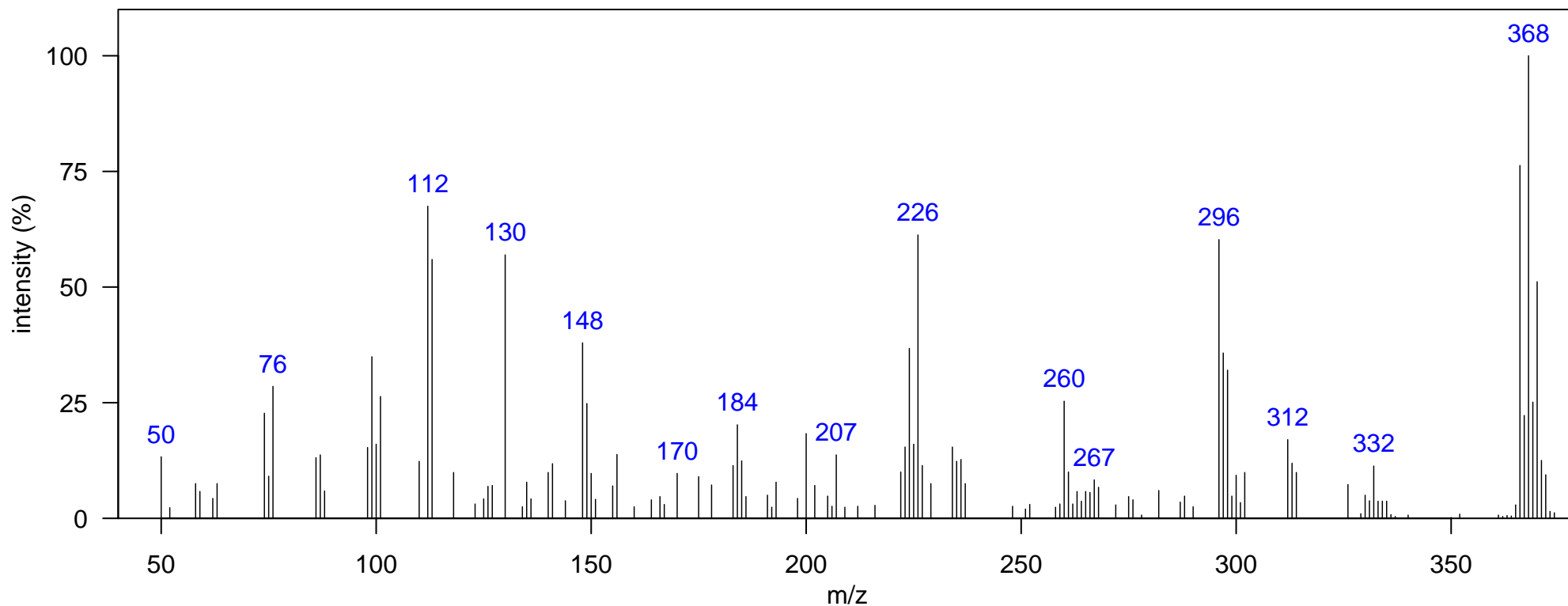
Quantitative Ion m/z: 368

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Literature MS



m/z [Fragment]
296 [M-Cl <sub>2</sub> ] <sup>+</sup>
366 M <sup>+</sup>

Name: terphenyl 4Cl 6

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1621.42, 1.881

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

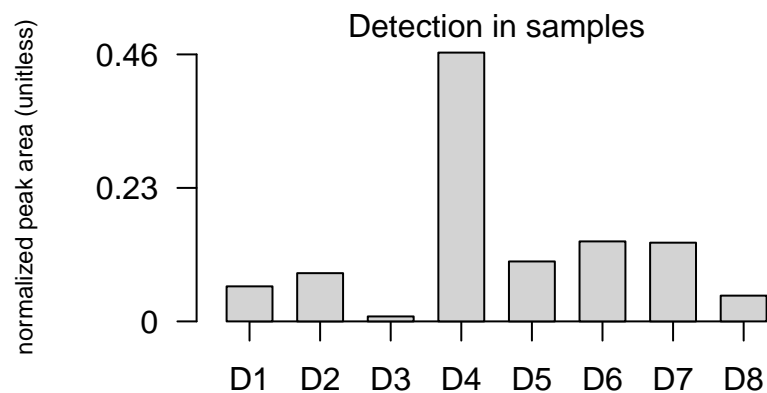
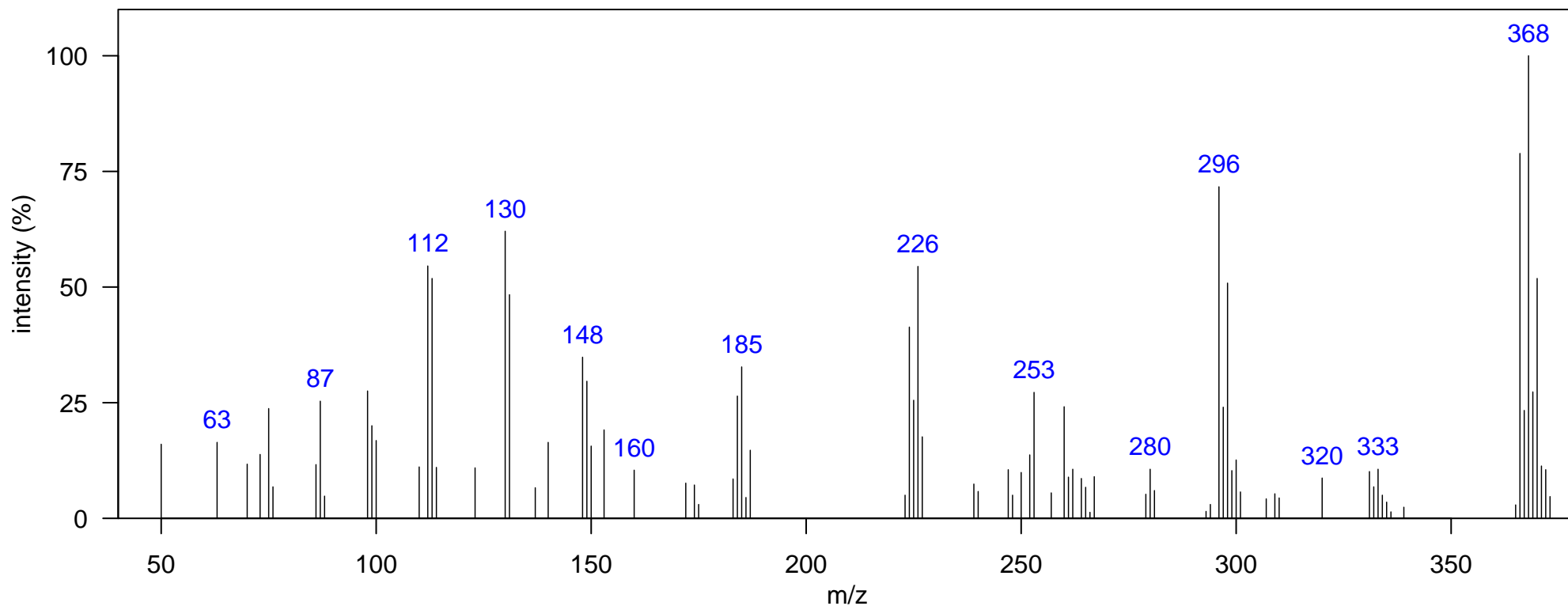
Quantitative Ion m/z: 368

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Literature MS



m/z [Fragment]
296 [M-Cl <sub>2</sub> ] <sup>+</sup>
331 [M-Cl] <sup>+</sup>
366 M <sup>+</sup>

Name: terphenyl 4Cl 7

Class: PCT

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1652.9, 2.053

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

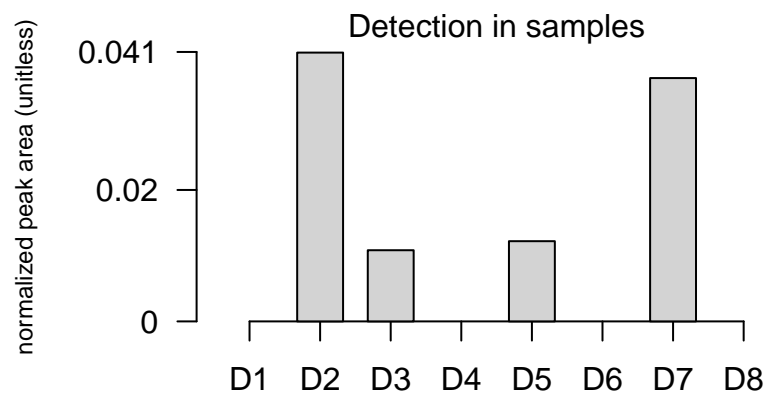
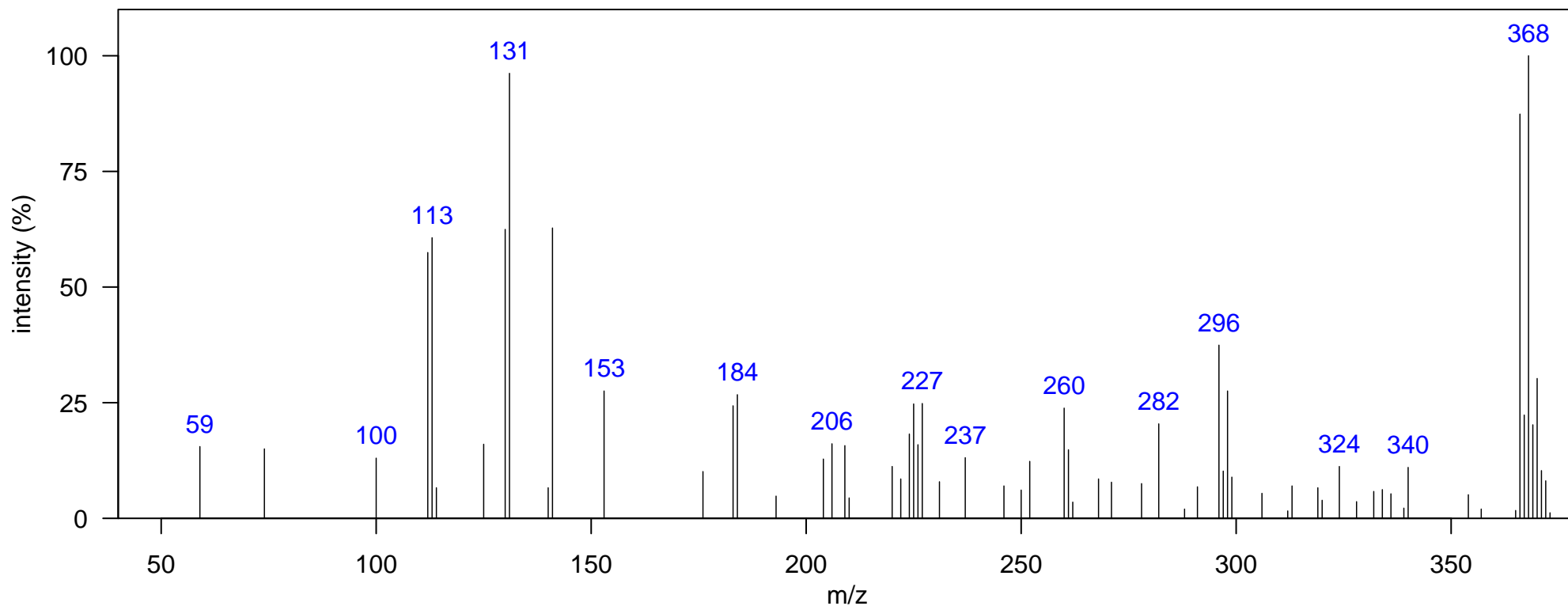
Quantitative Ion m/z: 368

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Literature MS



m/z [Fragment]
296 [M-Cl <sub>2</sub> ] <sup>+</sup>
366 M <sup>+</sup>

Name: terphenyl 4Cl 8

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1670.39, 1.993

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

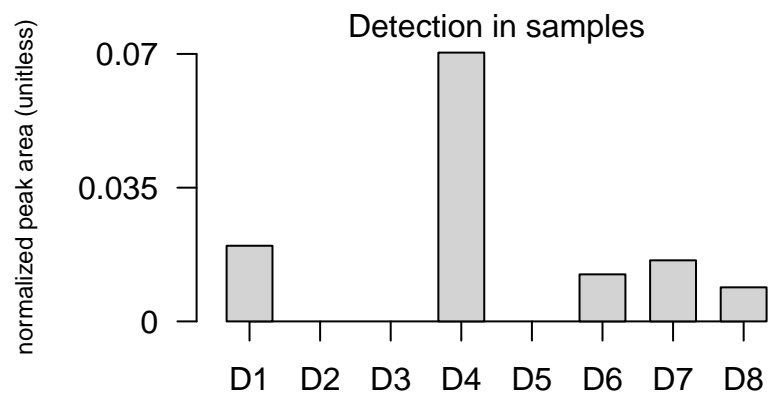
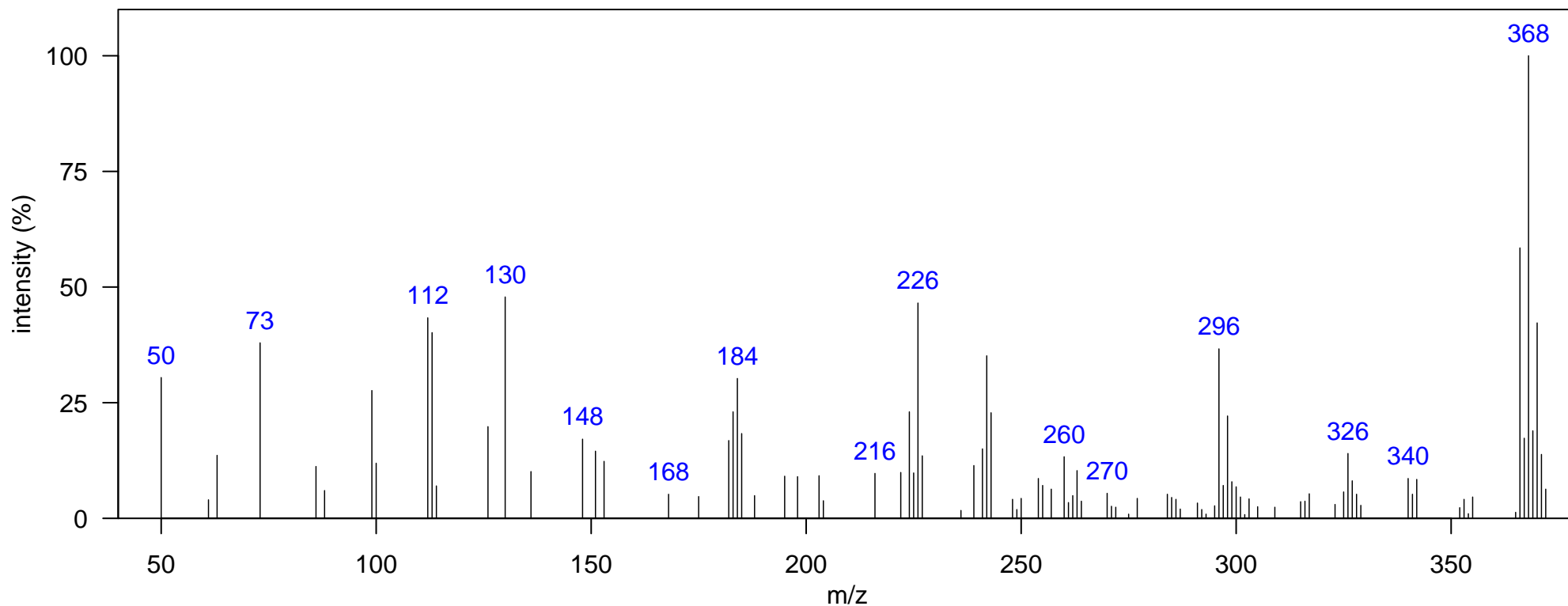
Quantitative Ion m/z: 368

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Literature MS



m/z [Fragment]
296 [M-Cl <sub>2</sub> ] <sup>+</sup>
366 M <sup>+</sup>

Name: terphenyl 4Cl 9

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1691.38, 2.059

Ecotype: coastal

Quantitative Ion m/z: 368

Instrument: GCxGC-TOF, EI, 70 eV

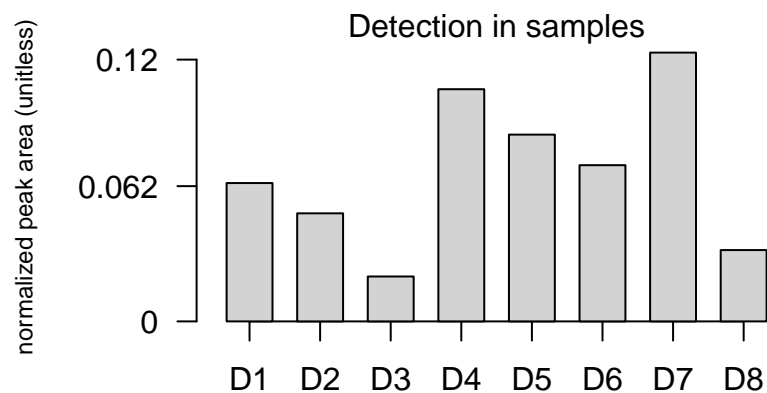
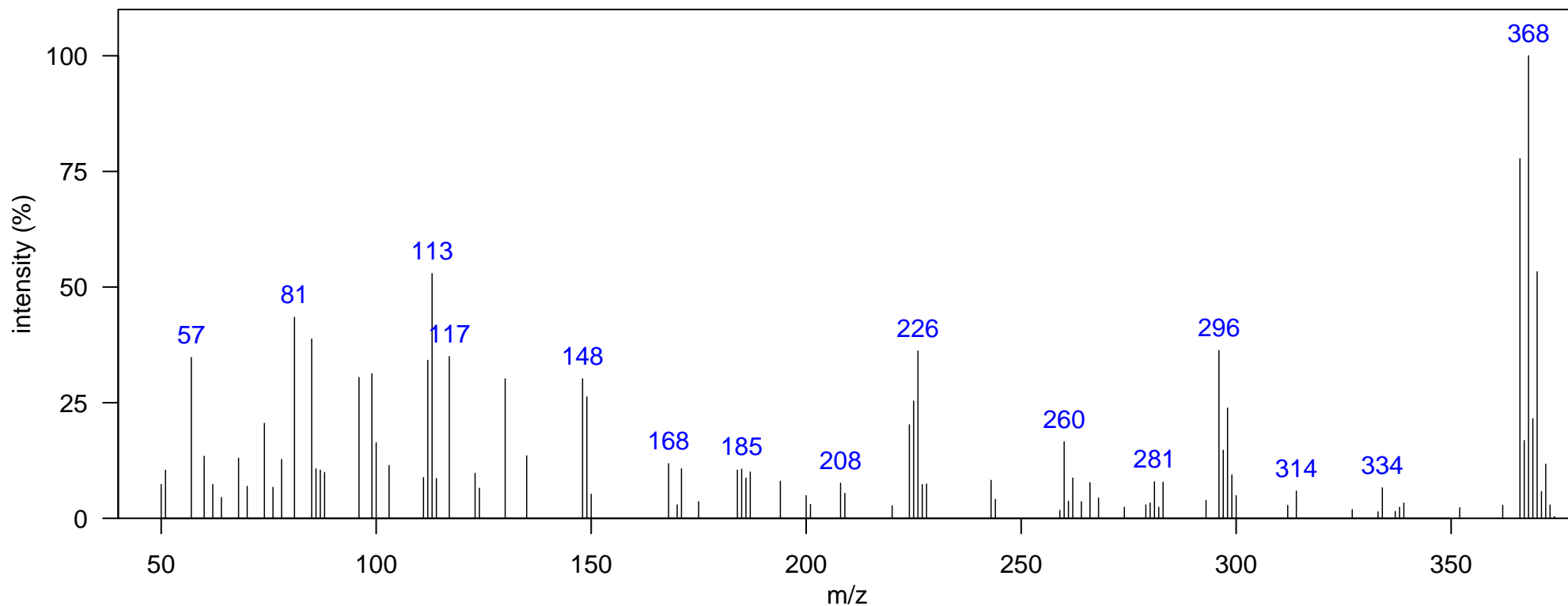
Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>10</sub>Cl<sub>4</sub>

Source: anthropogenic

Comment:

Identification: Literature MS



m/z [Fragment]
296 [M-Cl <sub>2</sub> ] <sup>+</sup>
366 M <sup>+</sup>

Name: terphenyl 5Cl 1

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1687.88, 2.099

Ecotype: offshore

Quantitative Ion m/z: 402

Instrument: GCxGC-TOF, EI, 70 eV

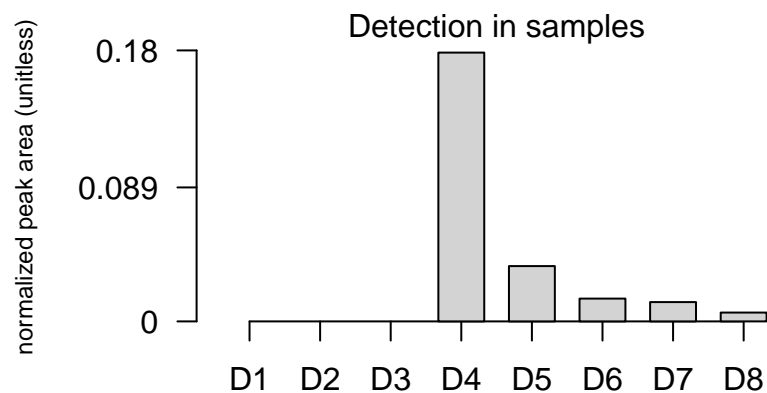
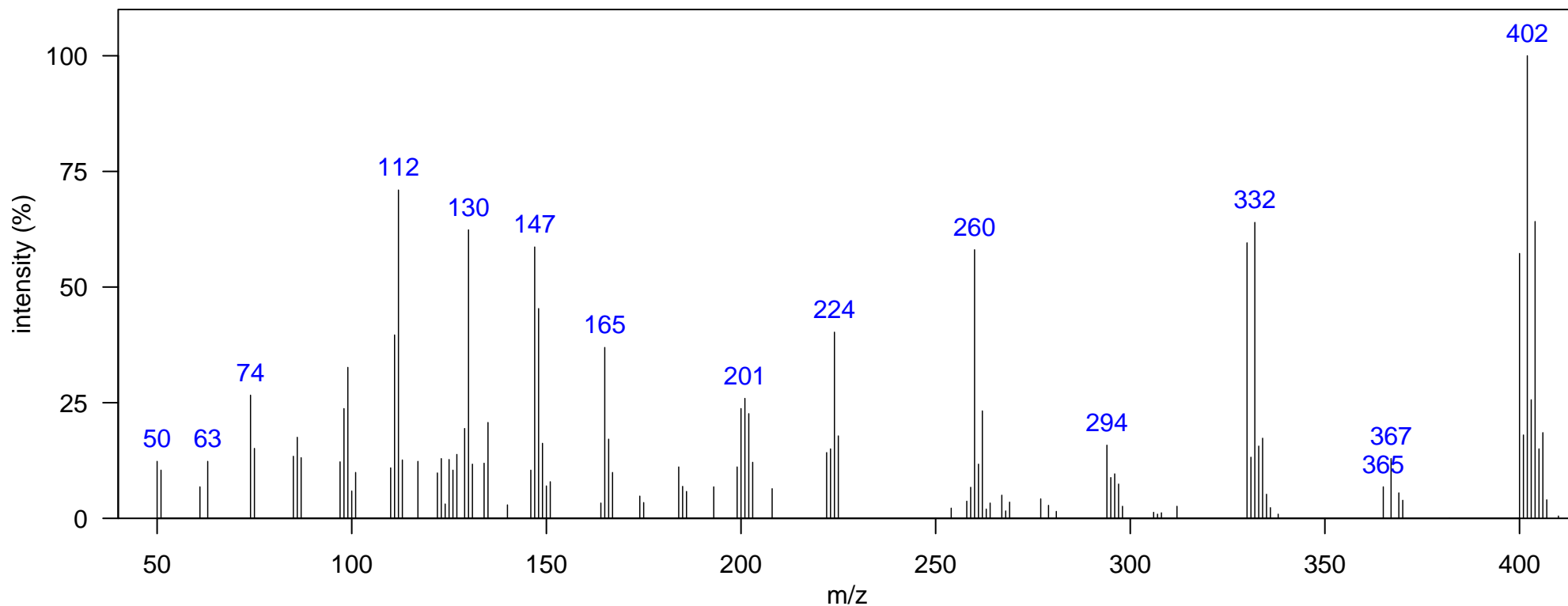
Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>9</sub>Cl<sub>5</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
330 [M-Cl <sub>2</sub> ] <sup>+</sup>
400 M <sup>+</sup>

Name: terphenyl 5Cl 2

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504

1D RT, 2D RT (s): 1628.41, 1.907

Elemental Formula: C<sub>18</sub>H<sub>9</sub>Cl<sub>5</sub>

Ecotype: offshore

Quantitative Ion m/z: 402

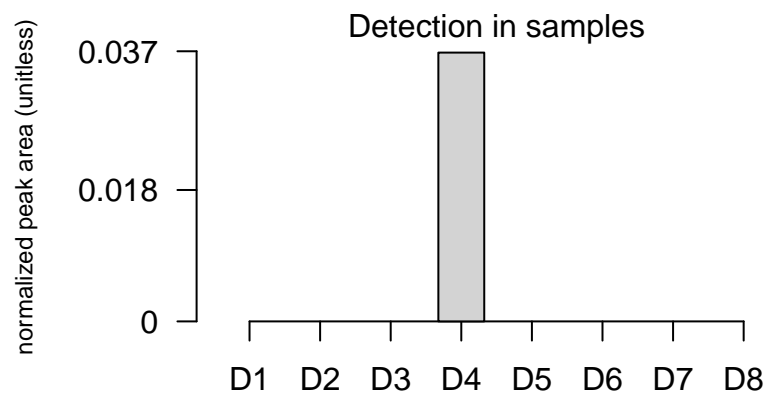
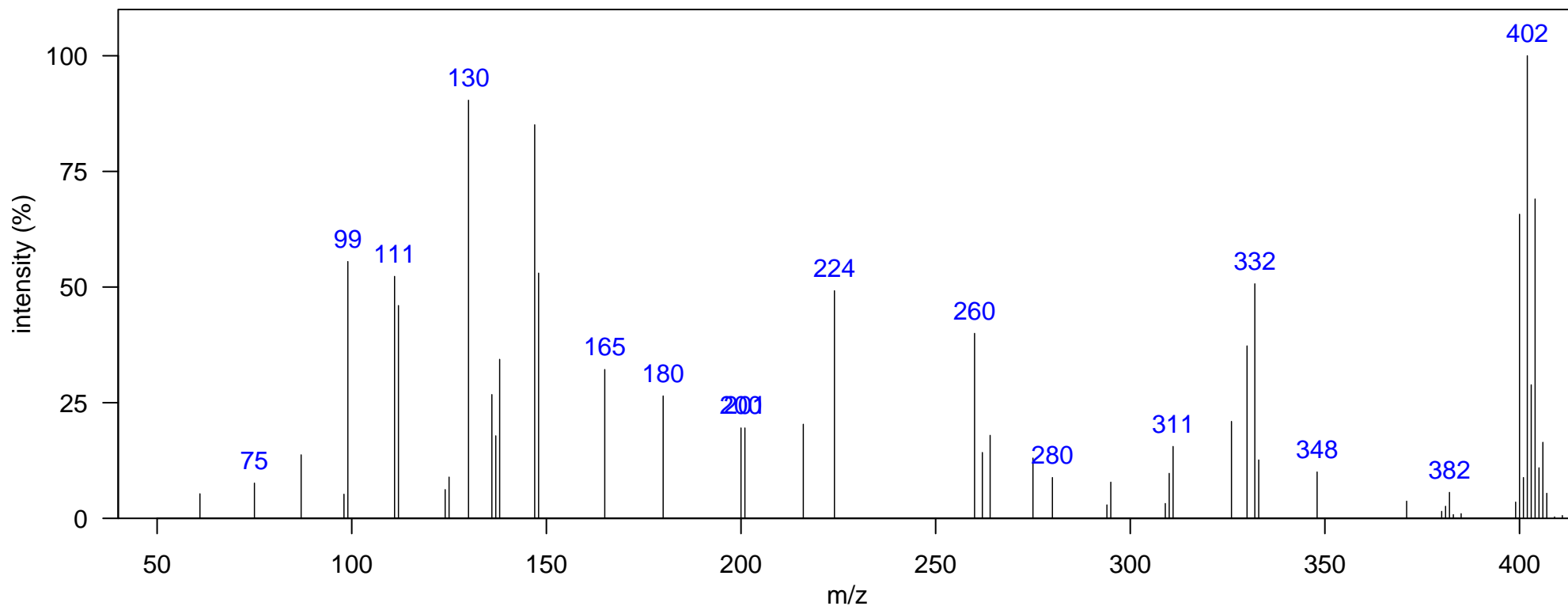
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
330 [M-Cl <sub>2</sub> ] <sup>+</sup>
400 M <sup>+</sup>

Name: terphenyl 5Cl 3

Class: PCT

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1701.87, 2.006

Ecotype: coastal

Quantitative Ion m/z: 402

Instrument: GCxGC-TOF, EI, 70 eV

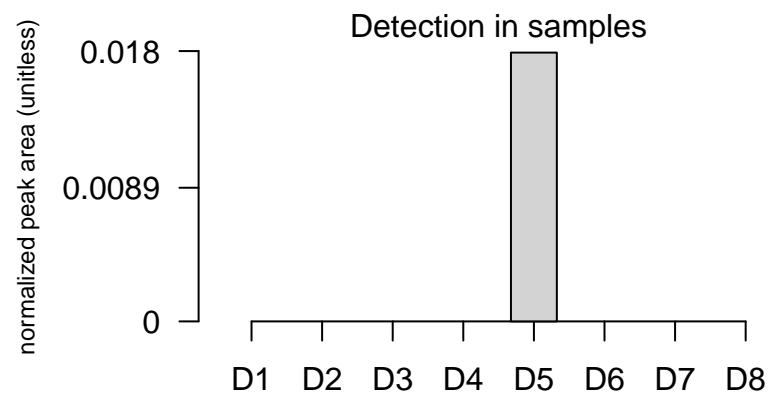
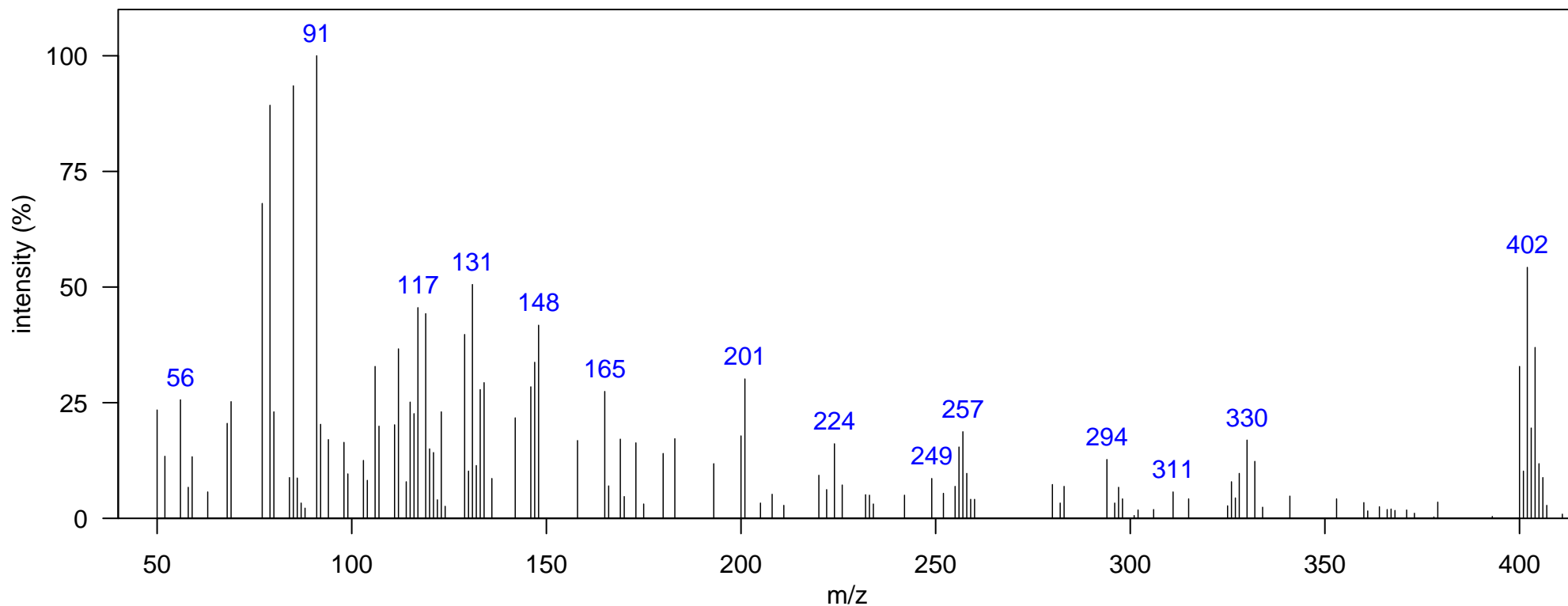
Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>9</sub>Cl<sub>5</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
330 [M-Cl <sub>2</sub> ] <sup>+</sup>
400 M <sup>+</sup>



Name: terphenyl 5Cl 4

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1715.86, 1.94

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

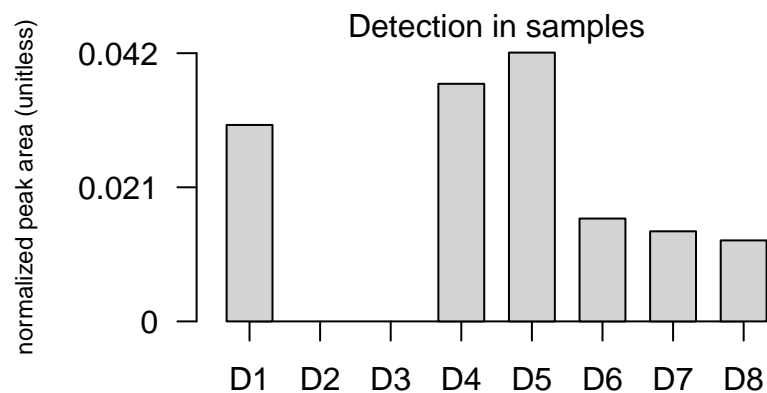
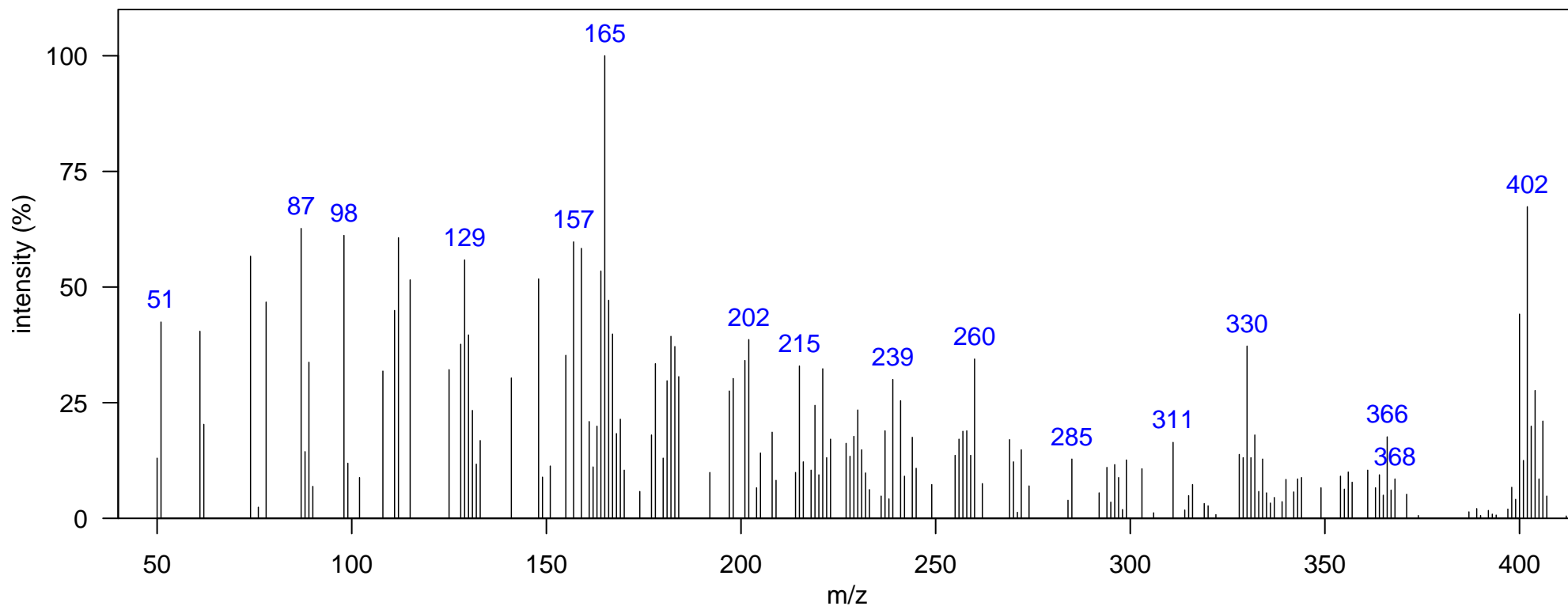
Quantitative Ion m/z: 402

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>9</sub>Cl<sub>5</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
330 [M-Cl <sub>2</sub> ] <sup>+</sup>
400 M <sup>+</sup>

Name: terphenyl 5Cl 5

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1726.36, 1.934

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

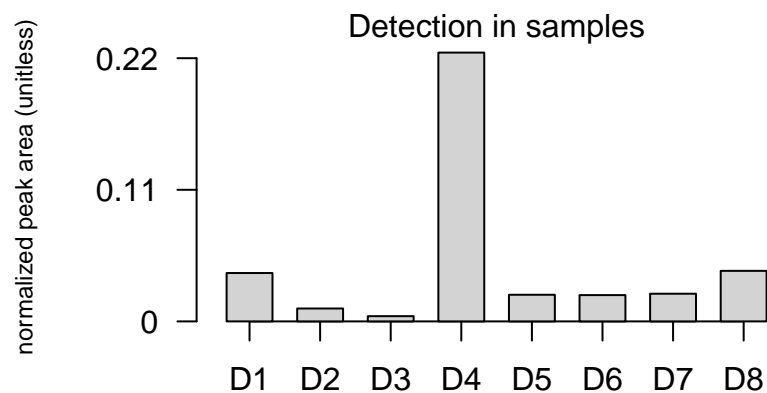
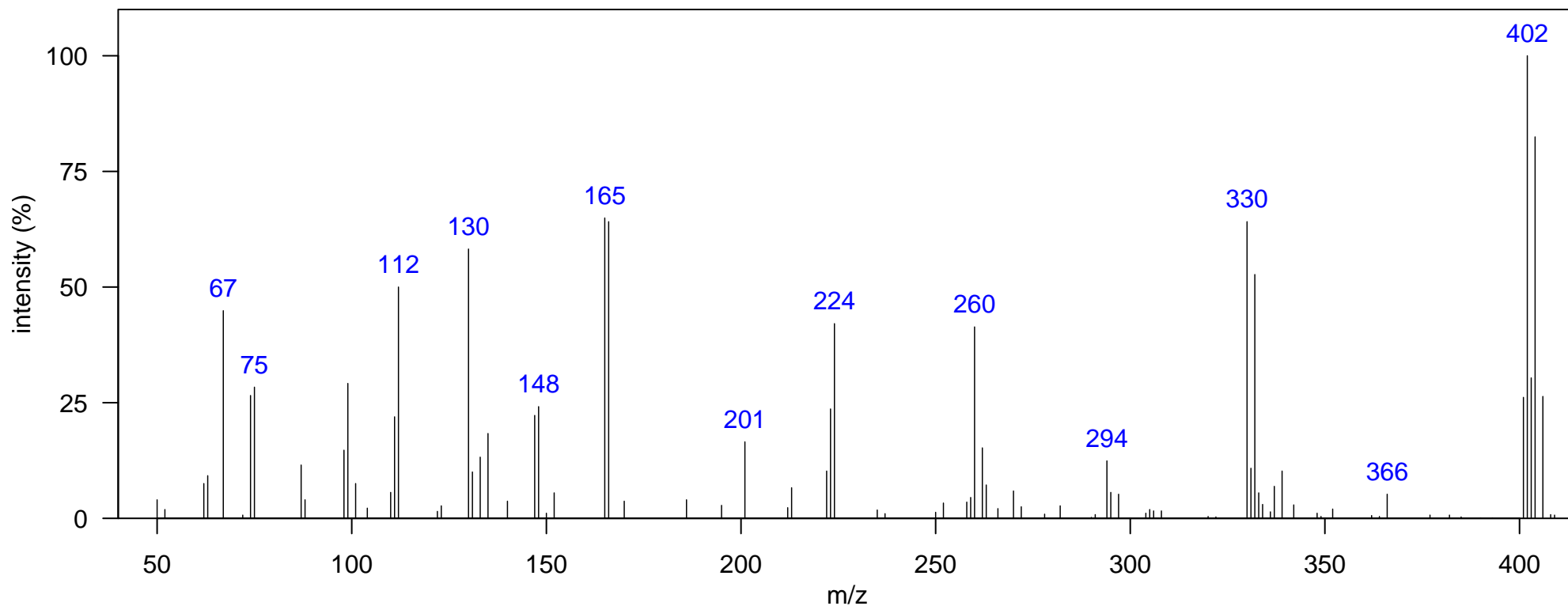
Quantitative Ion m/z: 402

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>9</sub>Cl<sub>5</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
330 [M-Cl <sub>2</sub> ] <sup>+</sup>
400 M <sup>+</sup>

Name: terphenyl 5Cl 6

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1754.34, 1.934

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

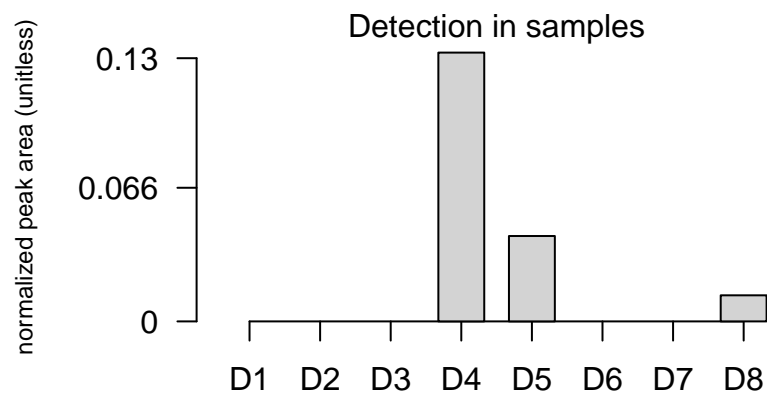
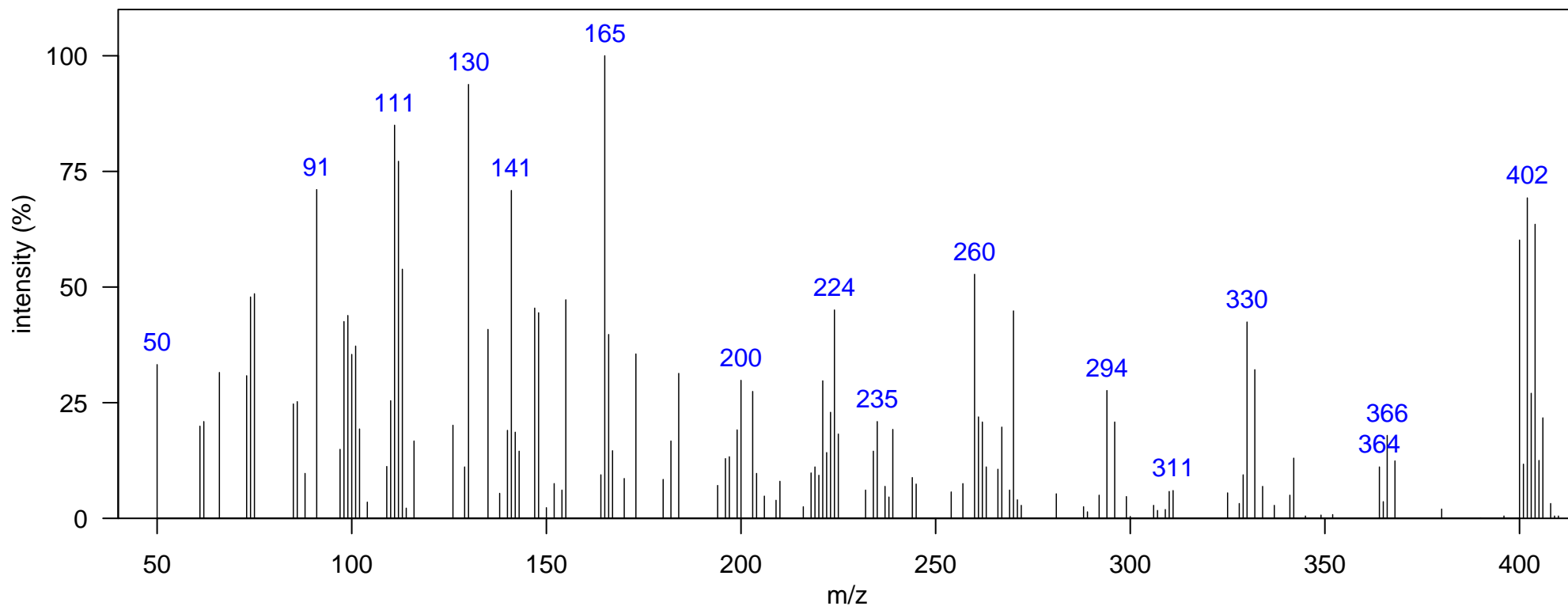
Quantitative Ion m/z: 402

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>9</sub>Cl<sub>5</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
330 [M-Cl <sub>2</sub> ] <sup>+</sup>
400 M <sup>+</sup>

Name: terphenyl 6Cl 1

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1698.37, 2.013

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

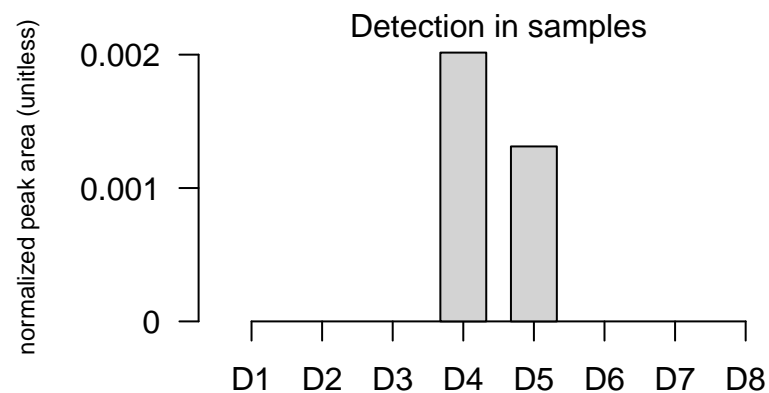
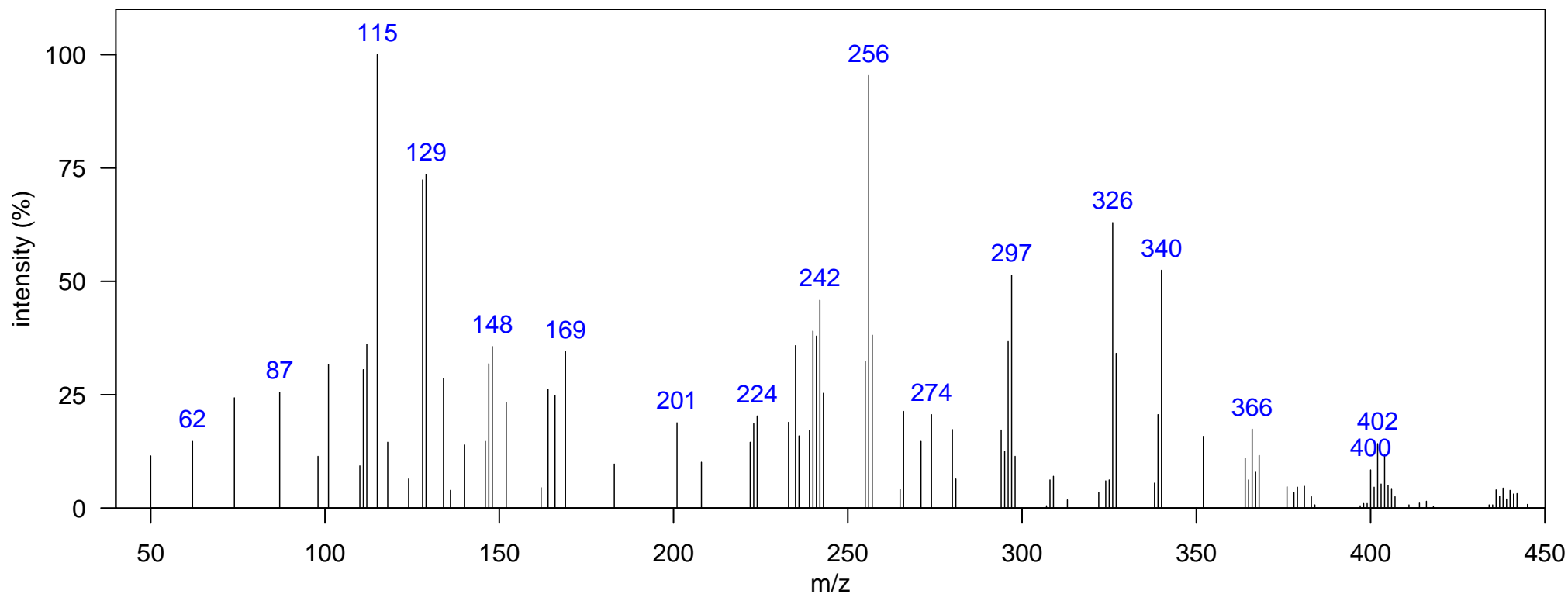
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>8</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
364 [M-Cl <sub>2</sub> ] <sup>+</sup>
434 M <sup>+</sup>

Name: terphenyl 6Cl 2

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1719.36, 1.841

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

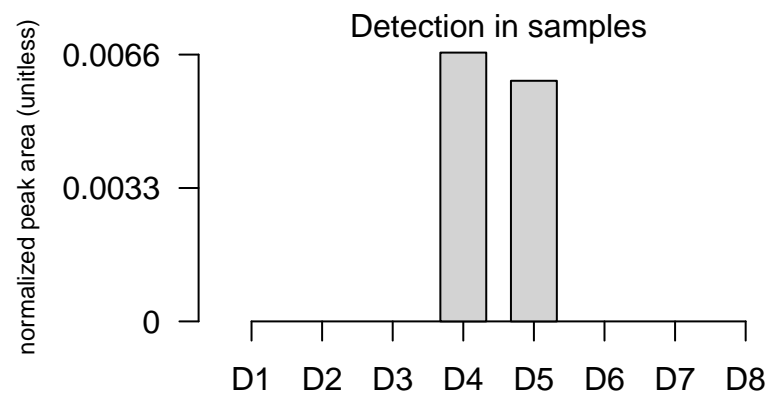
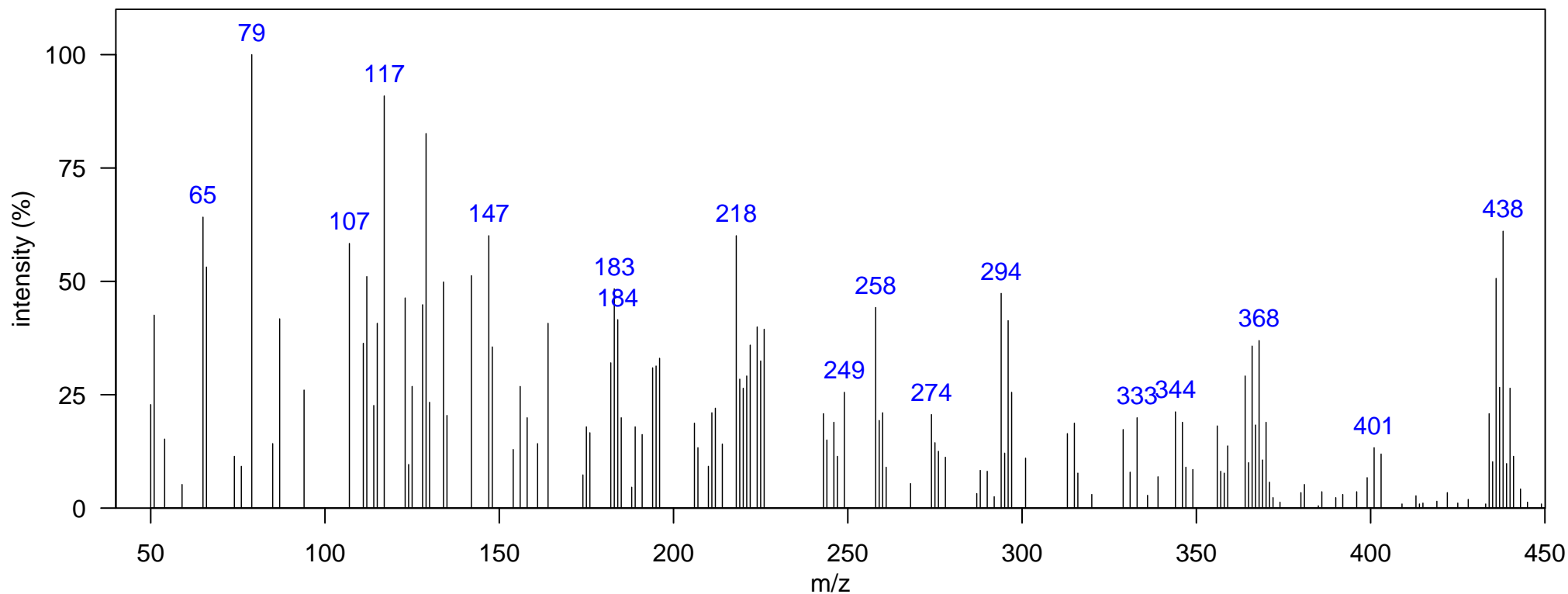
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>8</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
364 [M-Cl <sub>2</sub> ] <sup>+</sup>
434 M <sup>+</sup>

Name: terphenyl 6Cl 3

Class: PCT

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1736.85, 1.868

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

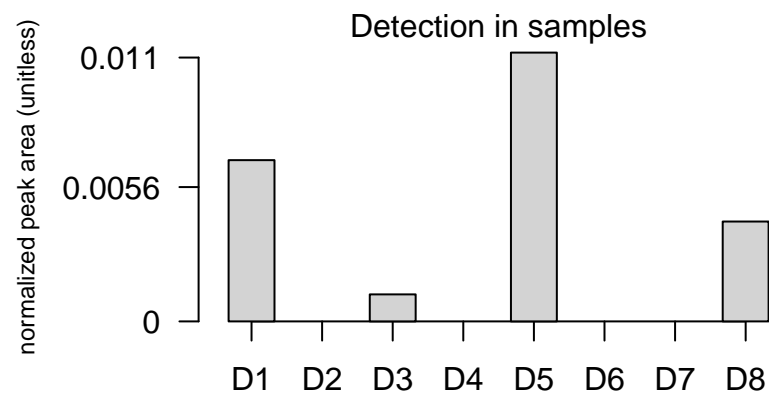
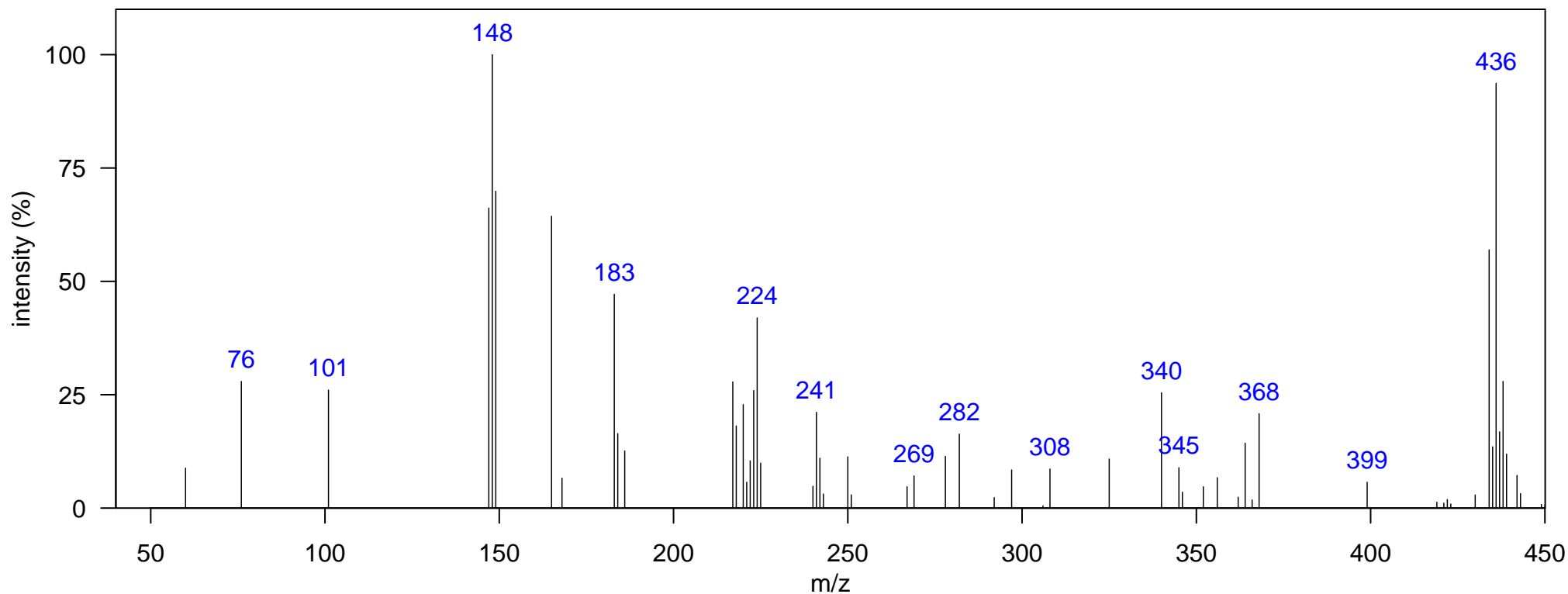
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>8</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
434 M+

Name: terphenyl 6Cl 4

Class: PCT

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1747.34, 1.881

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

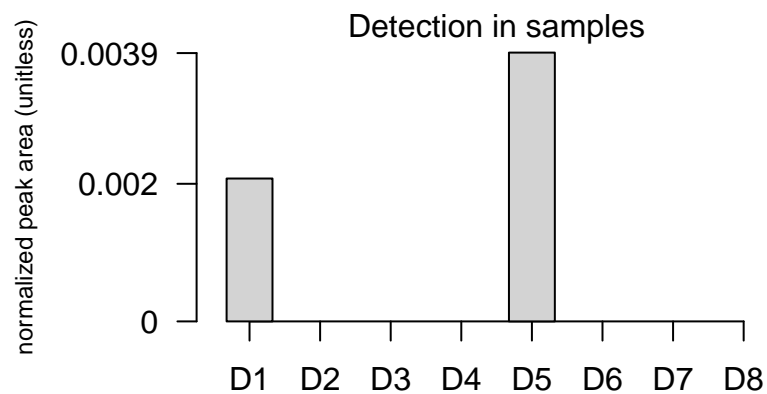
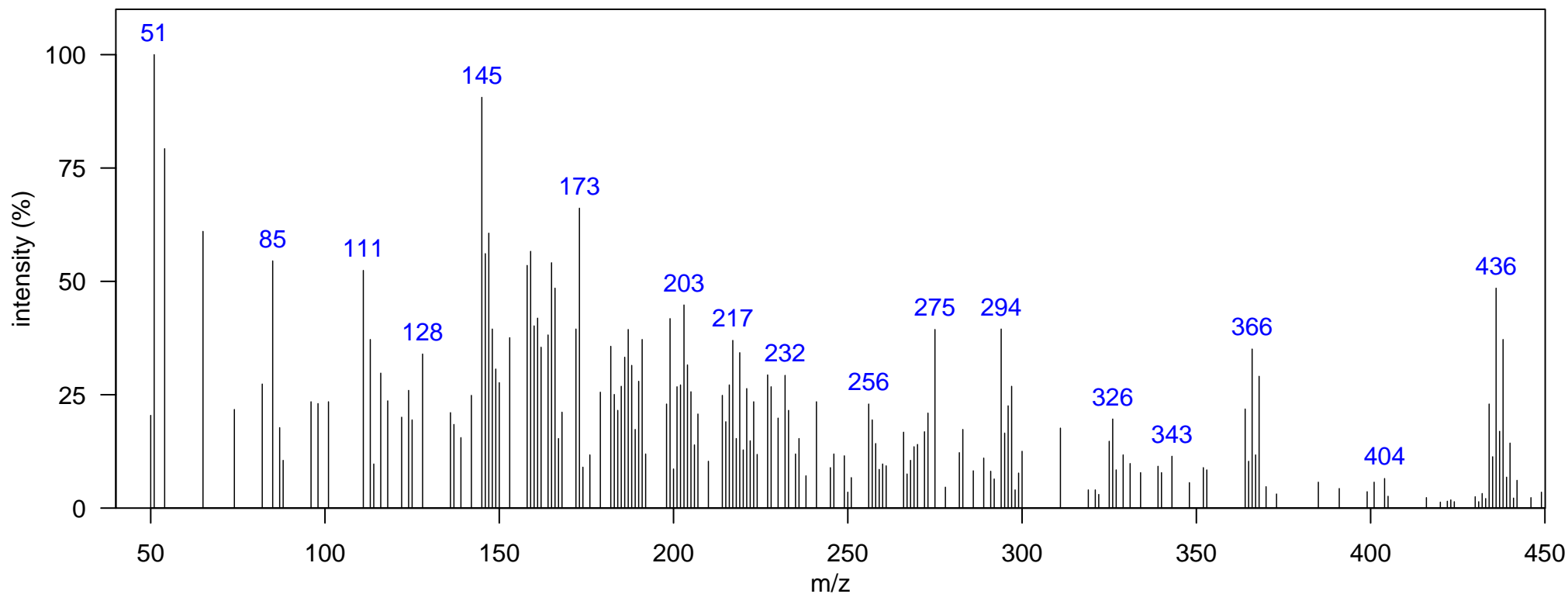
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>8</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
364 [M-Cl <sub>2</sub> ] <sup>+</sup>
434 M <sup>+</sup>

Name: terphenyl 6Cl 5

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504

1D RT, 2D RT (s): 1768.33, 1.967

Elemental Formula: C<sub>18</sub>H<sub>8</sub>Cl<sub>6</sub>

Ecotype: offshore

Quantitative Ion m/z: 438

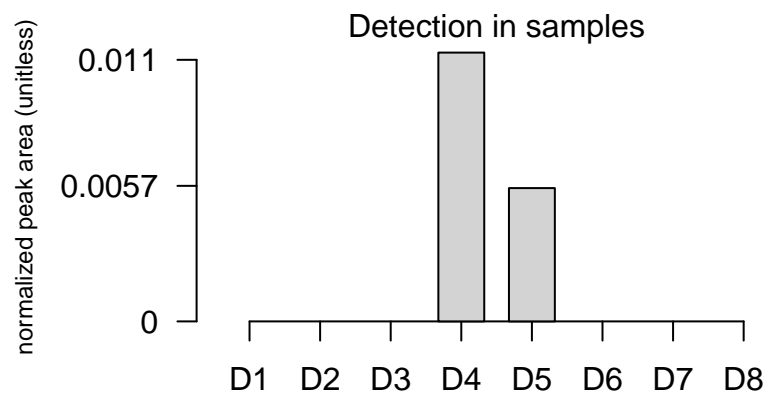
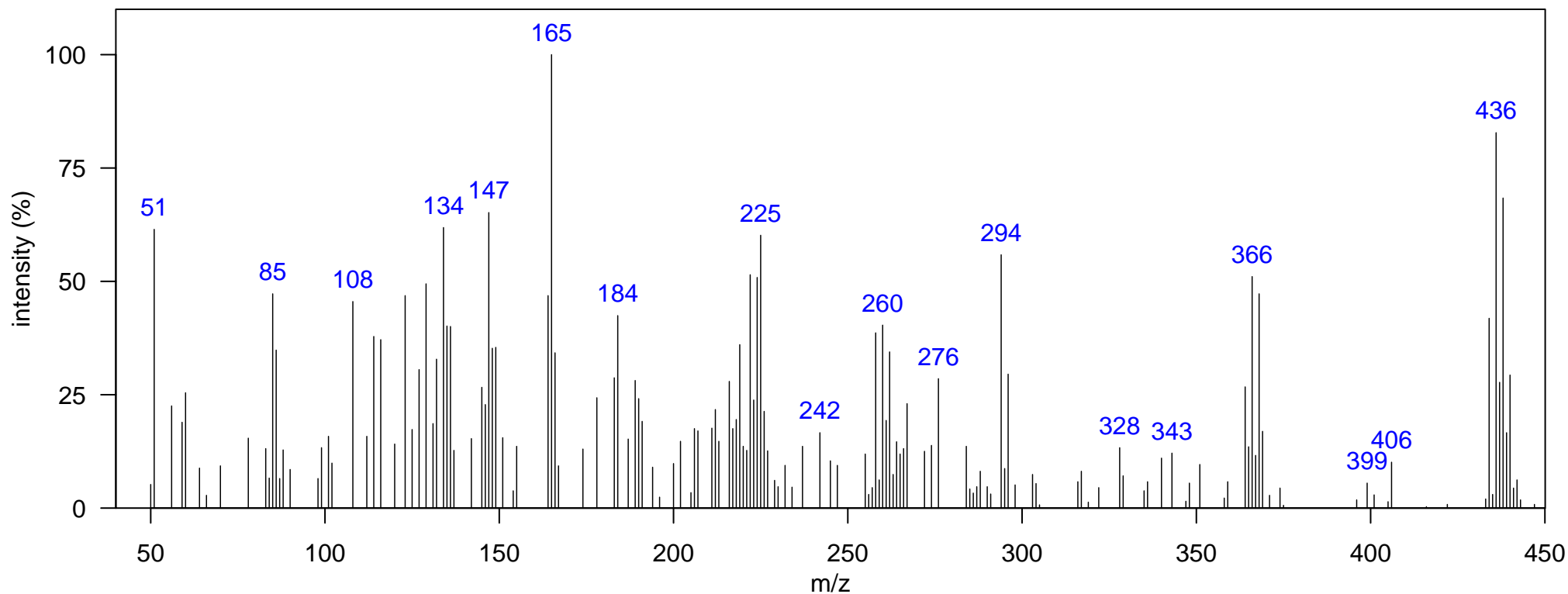
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
364 [M-Cl <sub>2</sub> ] <sup>+</sup>
434 M <sup>+</sup>



Name: terphenyl 6Cl 6

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1782.32, 2.086

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

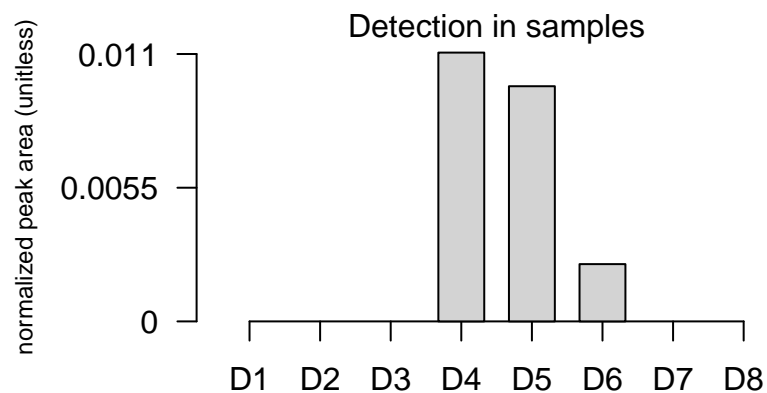
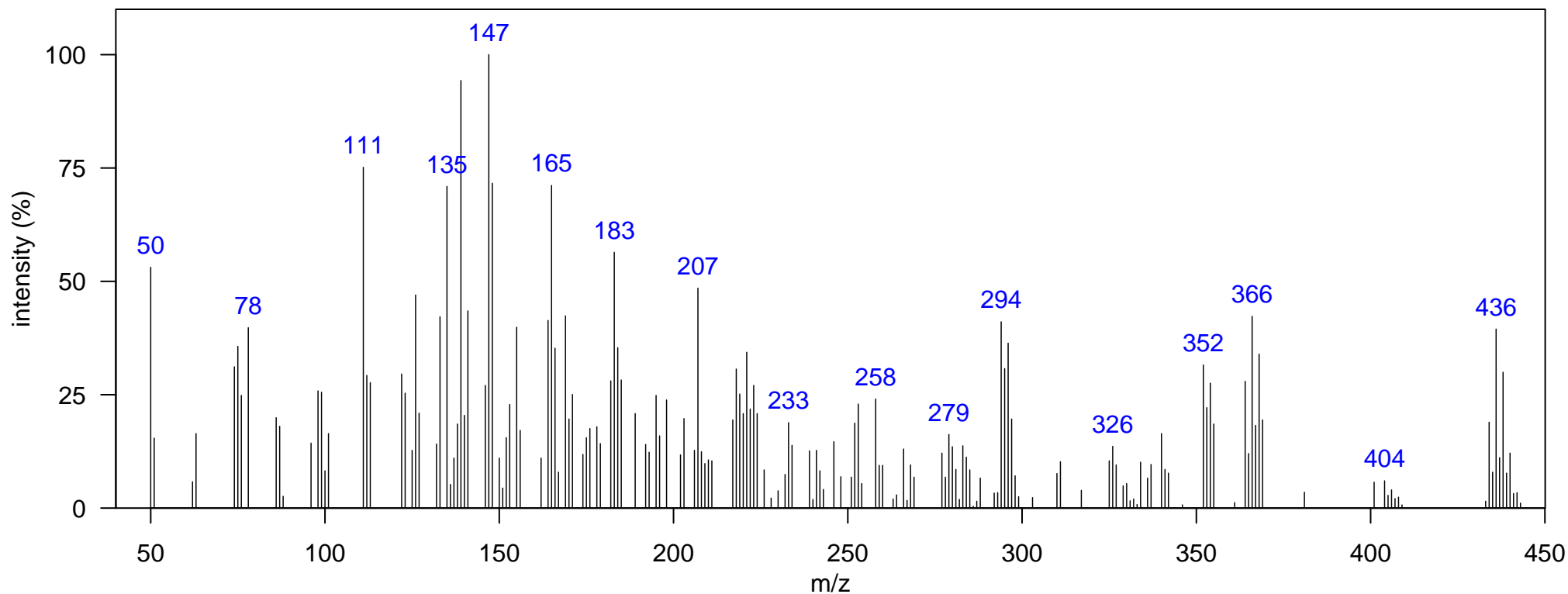
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>8</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
364 [M-Cl <sub>2</sub> ] <sup>+</sup>
434 M <sup>+</sup>

Name: terphenyl 6Cl 7

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1792.82, 2.125

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

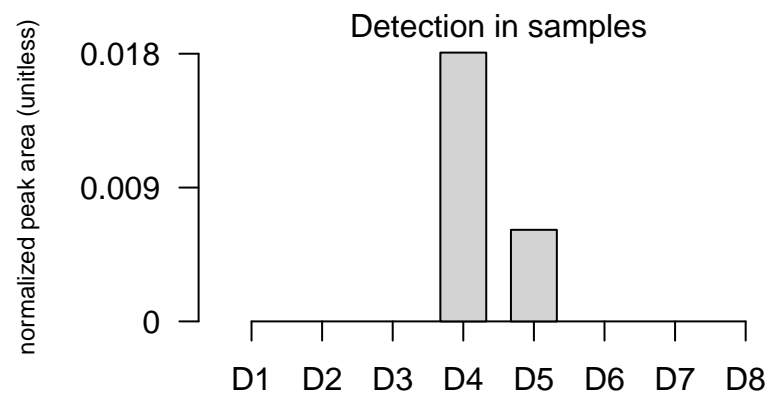
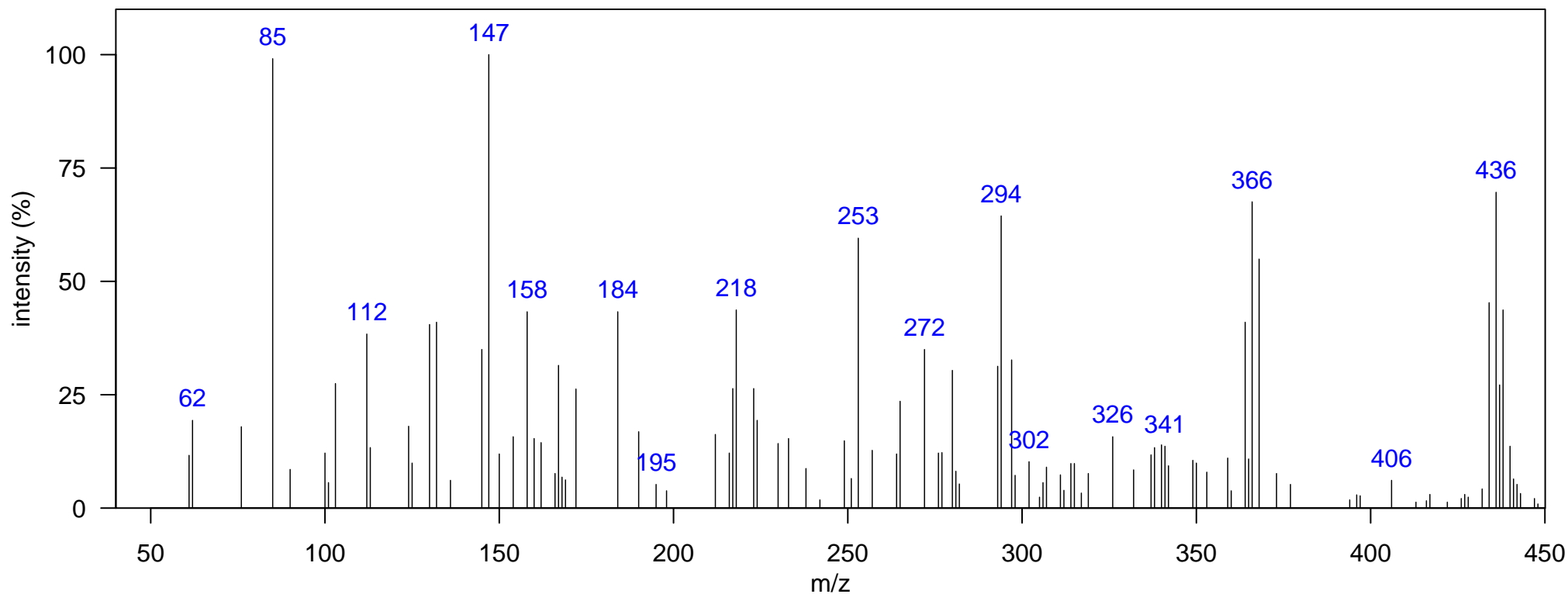
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>8</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
364 [M-Cl <sub>2</sub> ] <sup>+</sup>
434 M <sup>+</sup>

Name: terphenyl 6Cl 8

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1834.79, 2.284

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

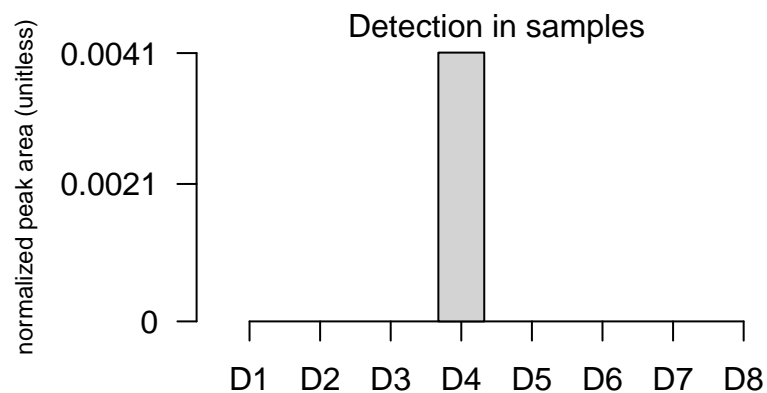
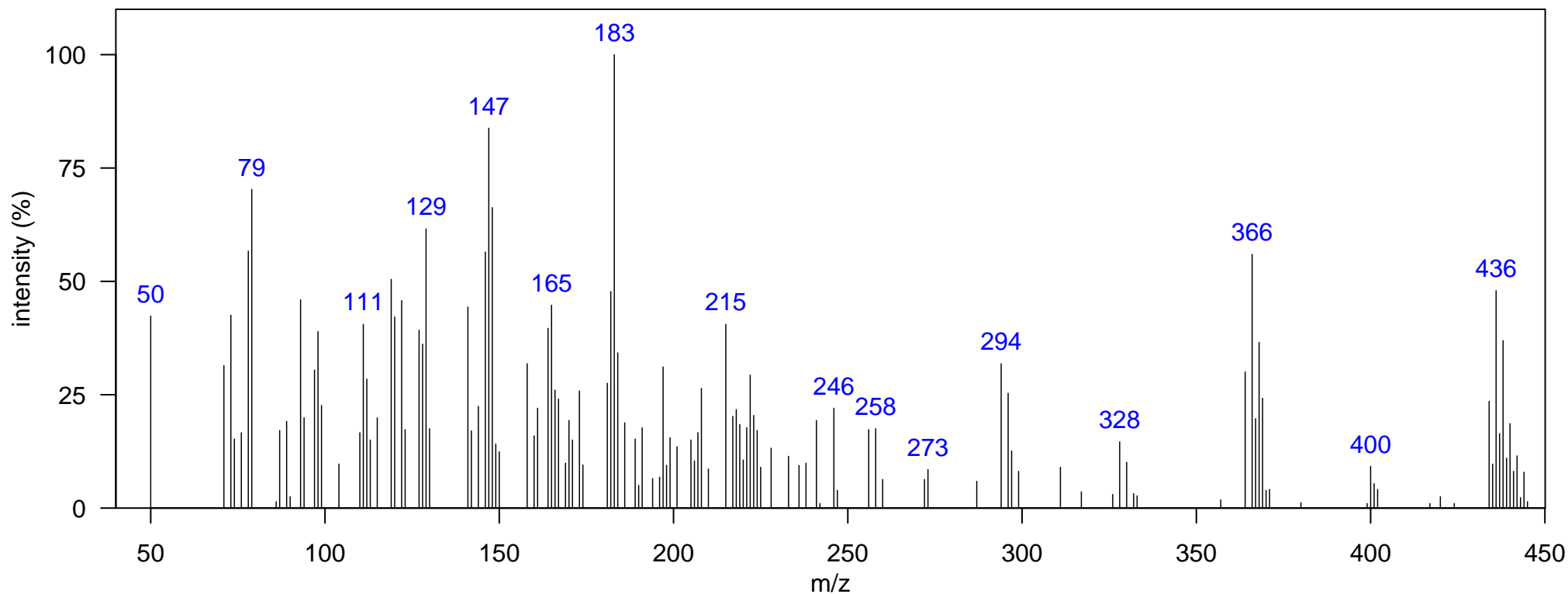
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>8</sub>Cl<sub>6</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
364 [M-Cl <sub>2</sub> ] <sup>+</sup>
434 M <sup>+</sup>

Name: terphenyl 7Cl 1

Class: PCT

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1726.36, 1.888

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

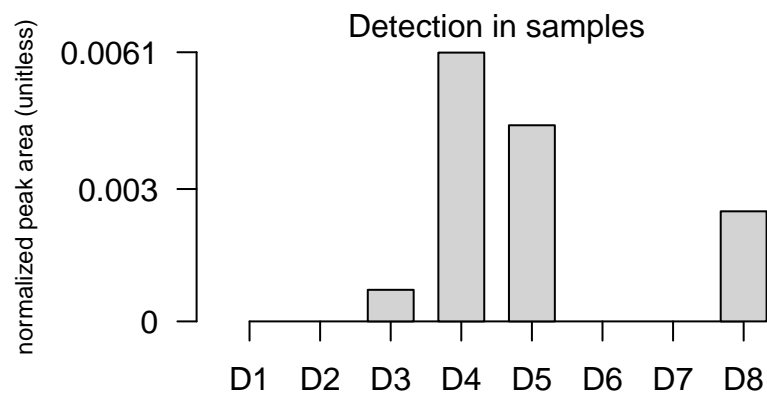
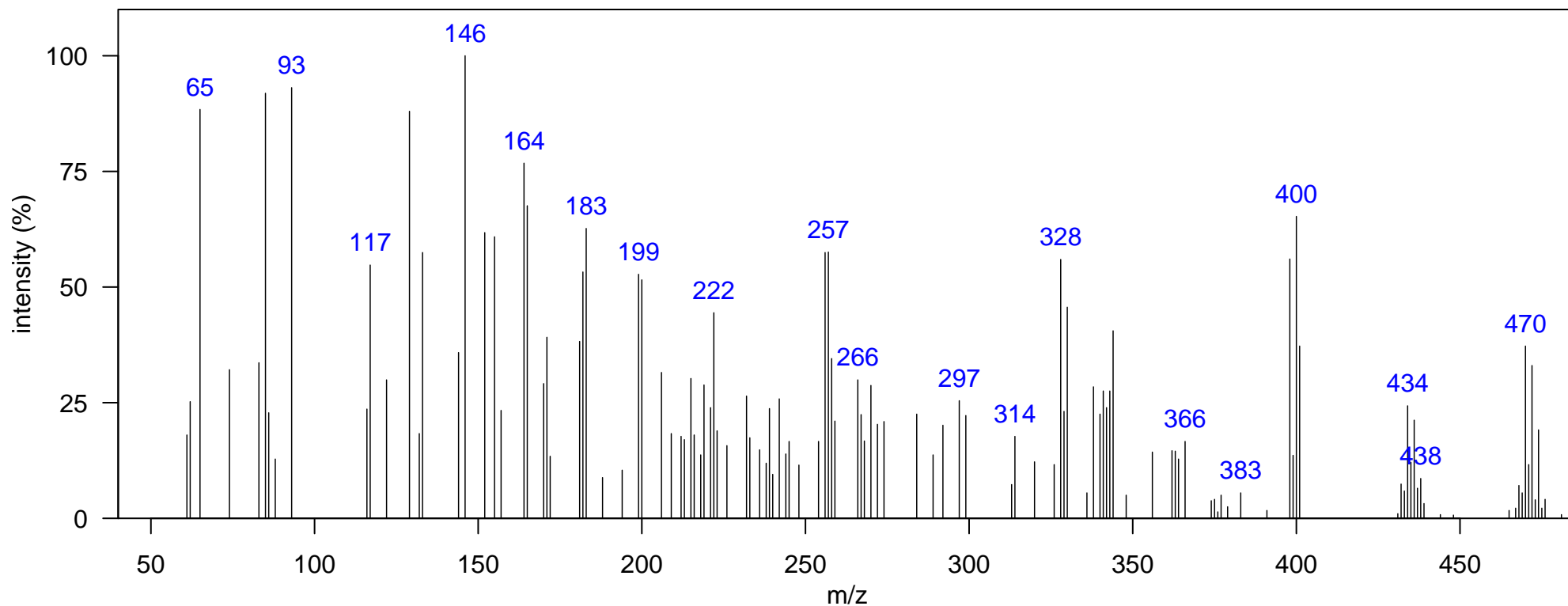
Quantitative Ion m/z: 470

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>

Name: terphenyl 7Cl 2

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1789.32, 2.006

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

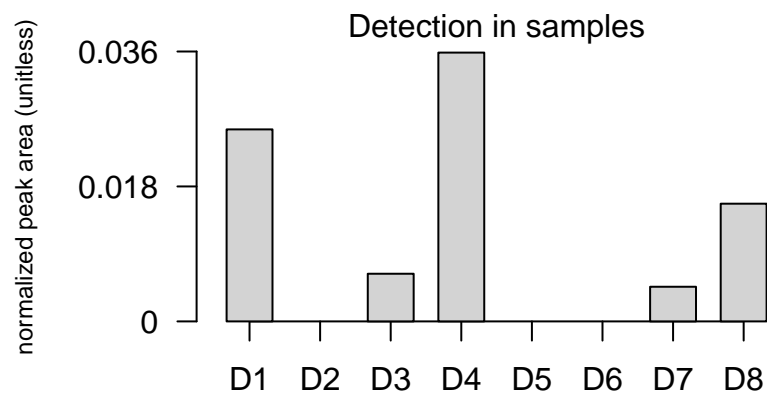
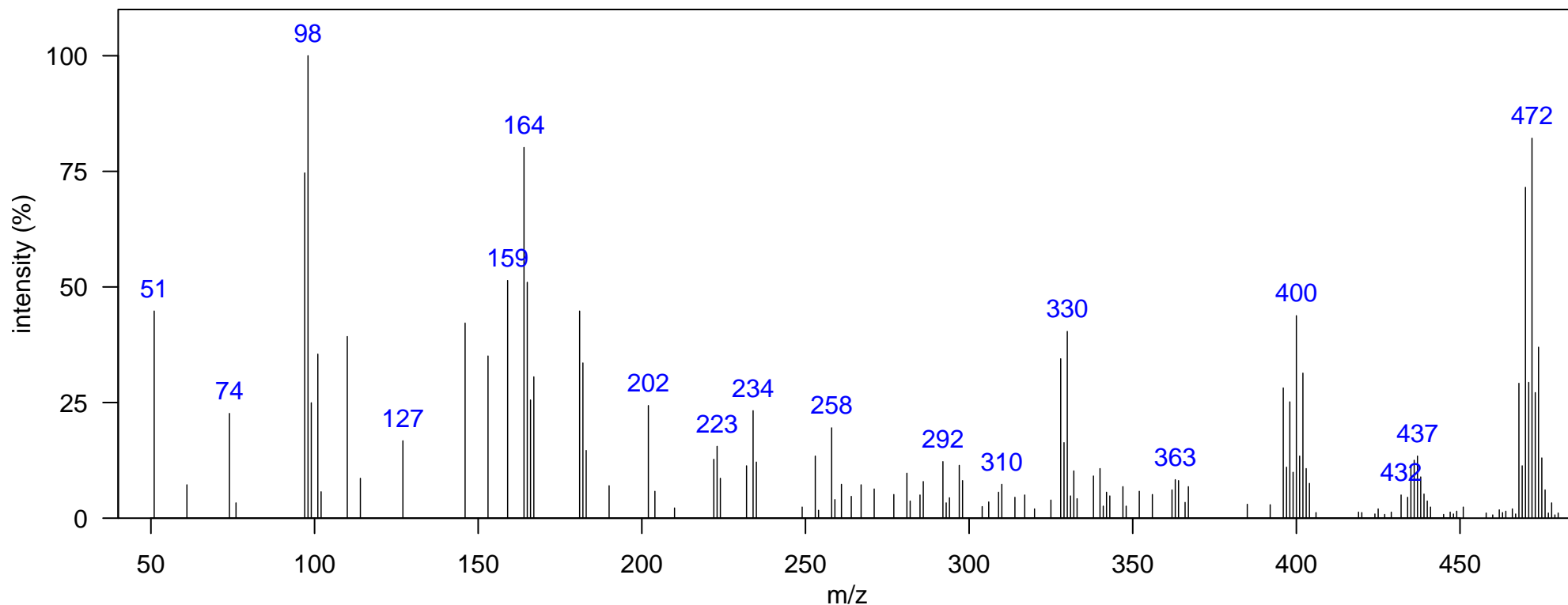
Quantitative Ion m/z: 470

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>

Name: terphenyl 7Cl 3

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1799.81, 2.092

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

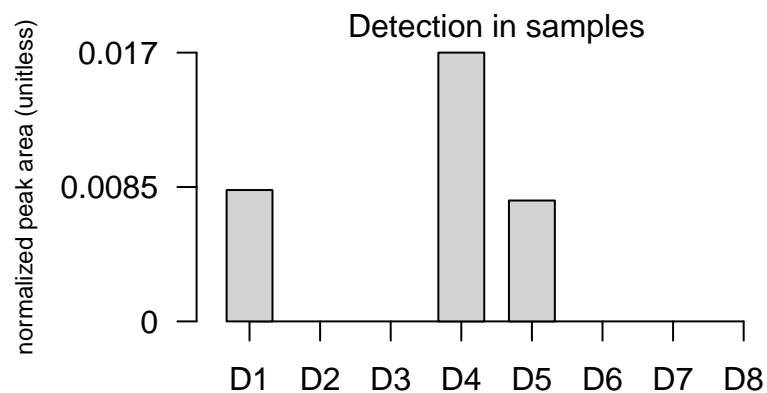
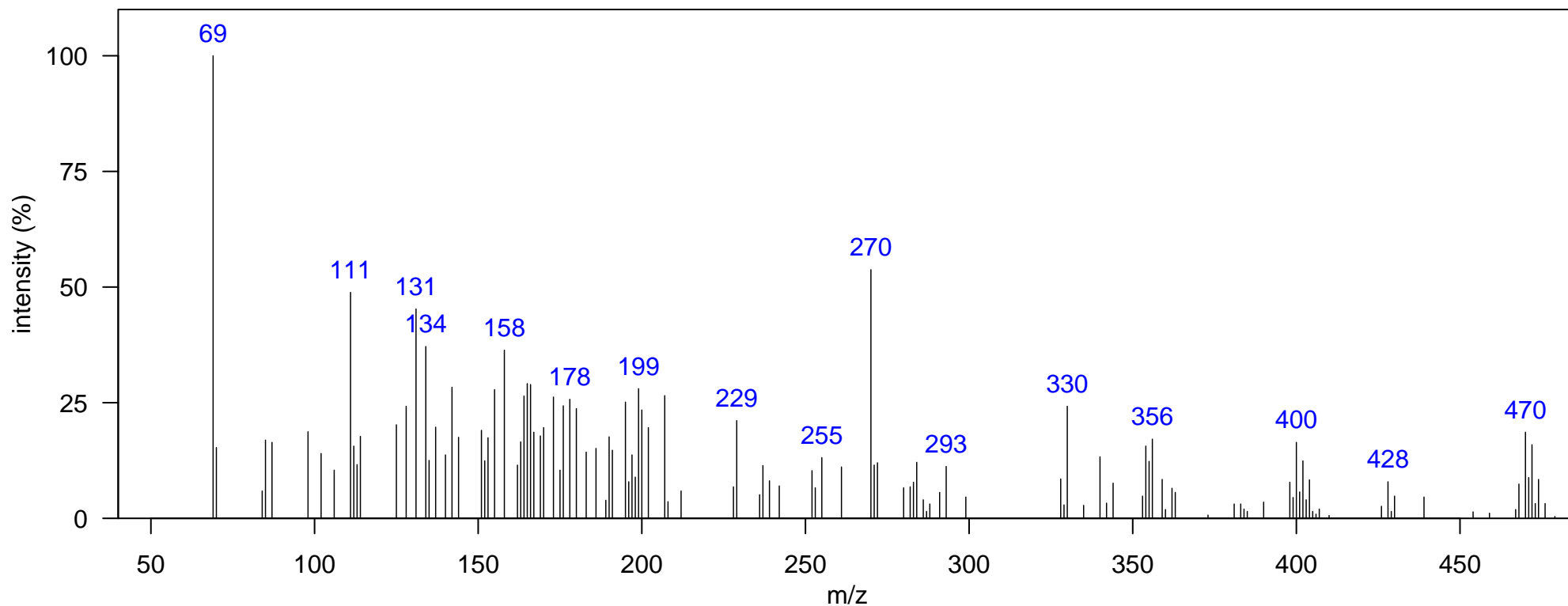
Quantitative Ion m/z: 470

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>

Name: terphenyl 7Cl 4

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1820.8, 2.053

Ecotype: offshore

Quantitative Ion m/z: 470

Instrument: GCxGC-TOF, EI, 70 eV

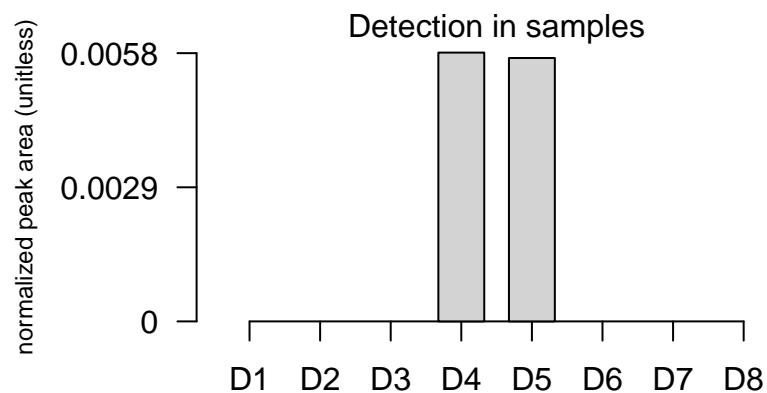
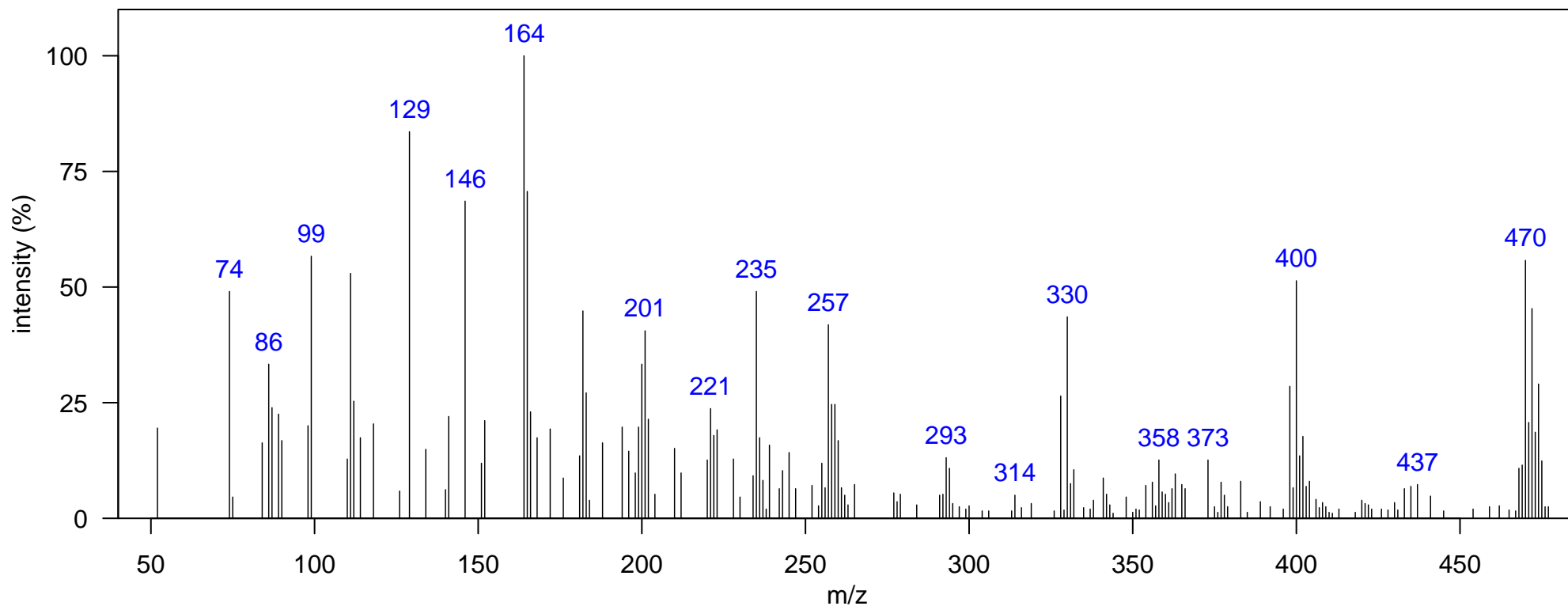
Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>

Name: terphenyl 7Cl 5

Class: PCT

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1838.29, 2.237

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

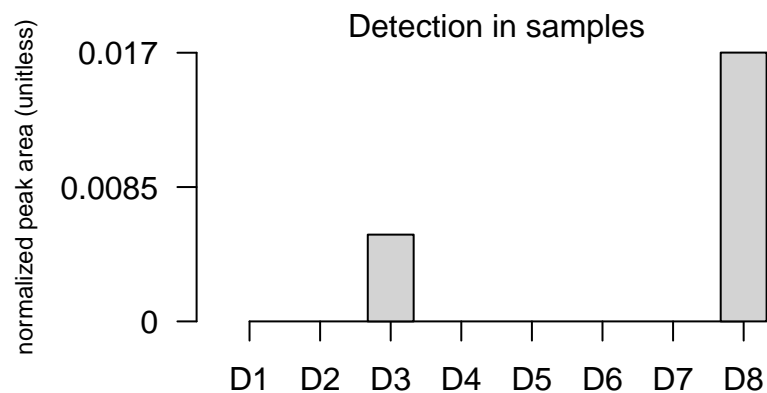
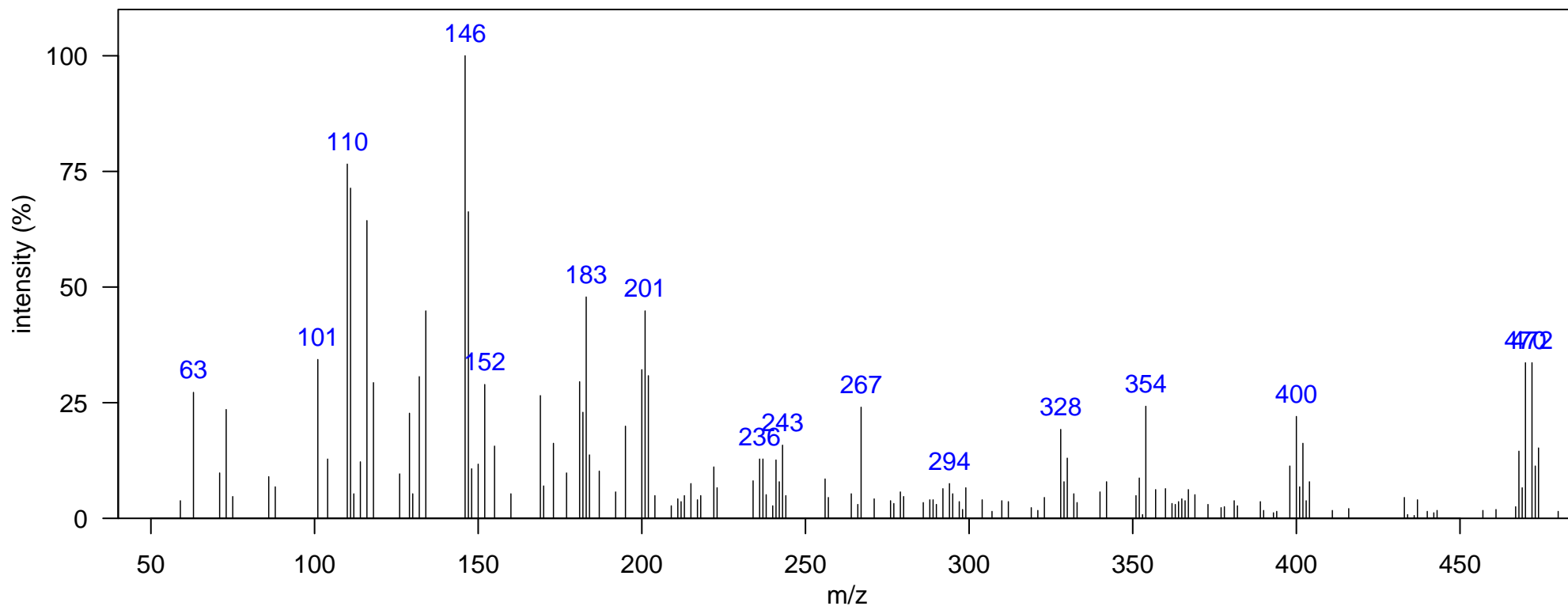
Quantitative Ion m/z: 470

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>



Name: terphenyl 7Cl 6

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1845.29, 2.244

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

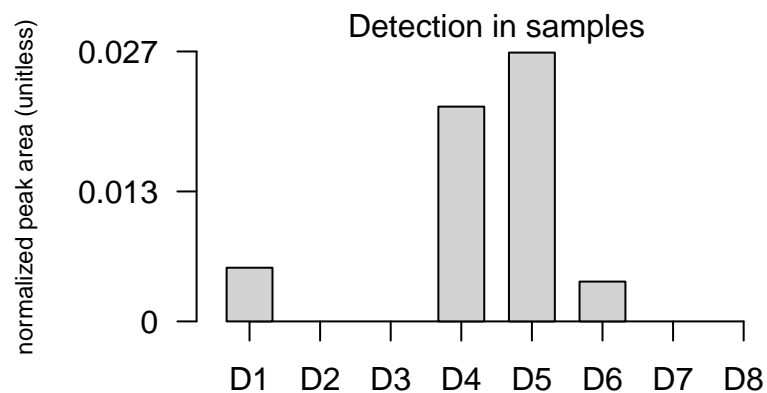
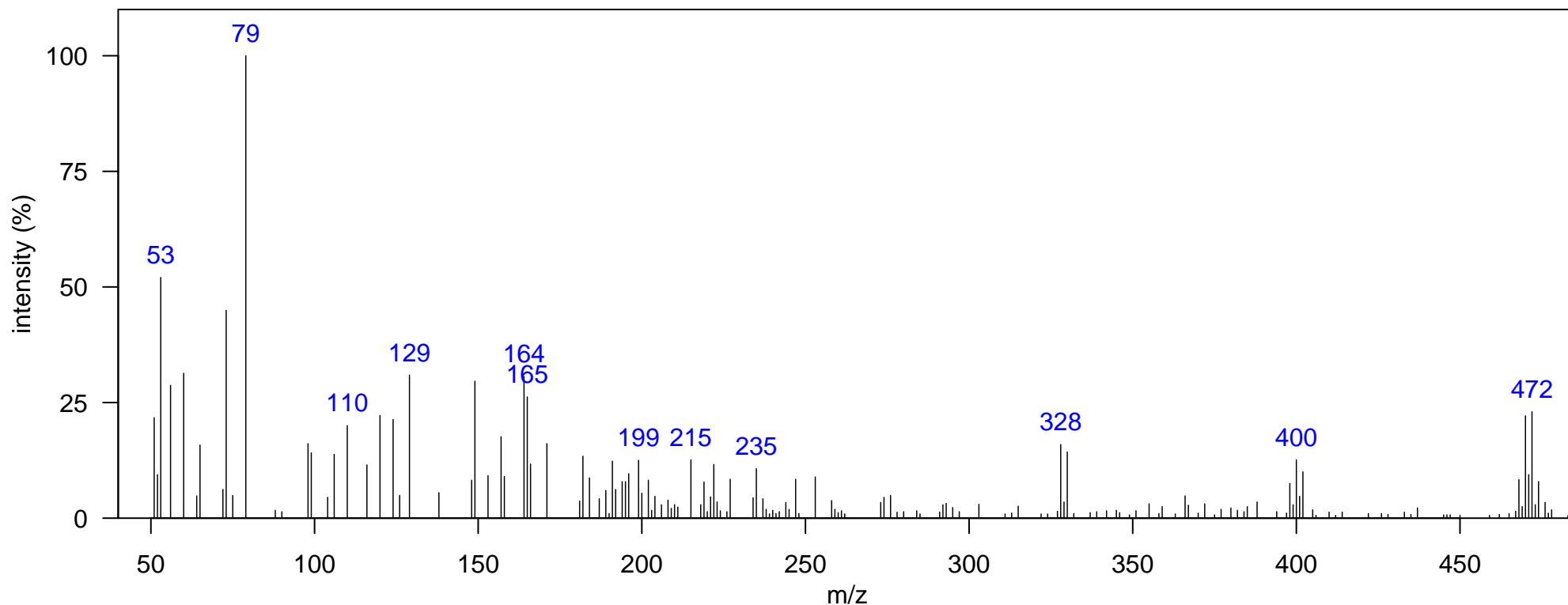
Quantitative Ion m/z: 470

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>

Name: terphenyl 7Cl 7

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1876.77, 2.396

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

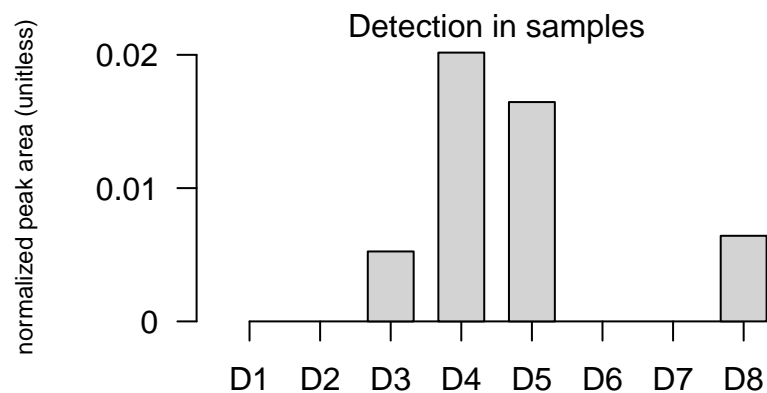
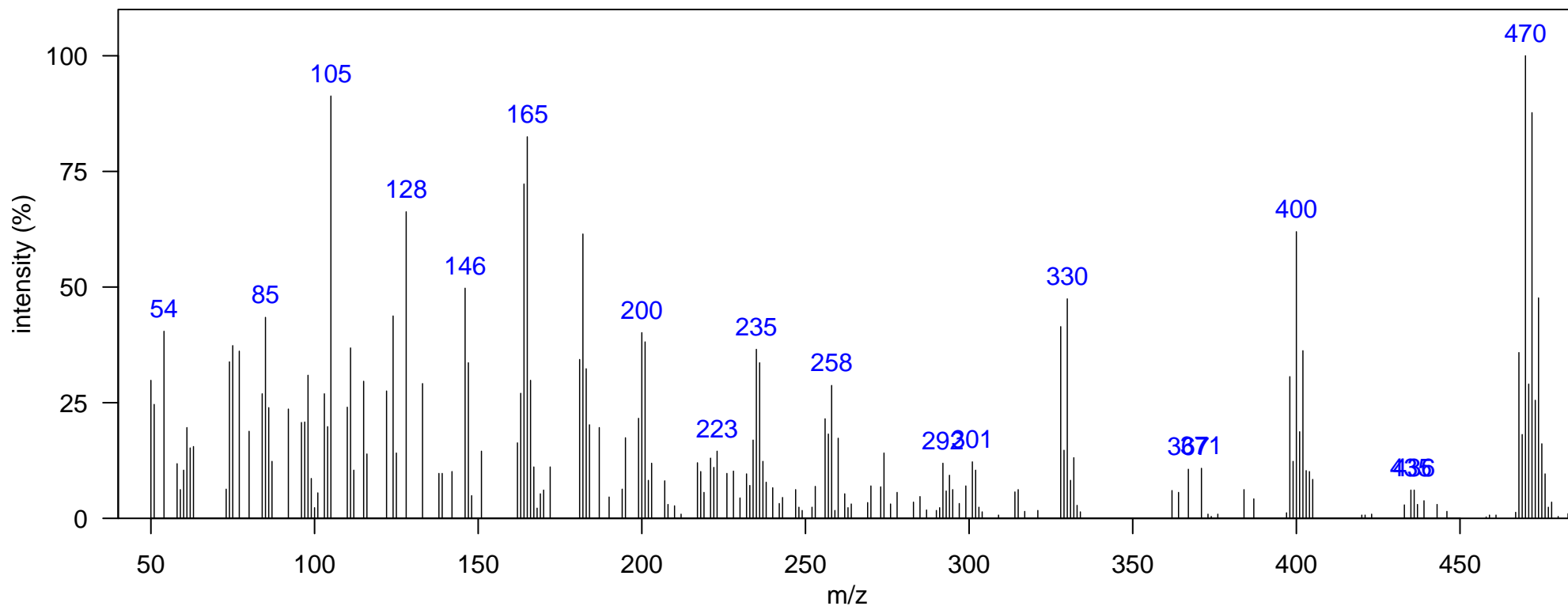
Quantitative Ion m/z: 470

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>

Name: terphenyl 7Cl 8

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1880.27, 2.475

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

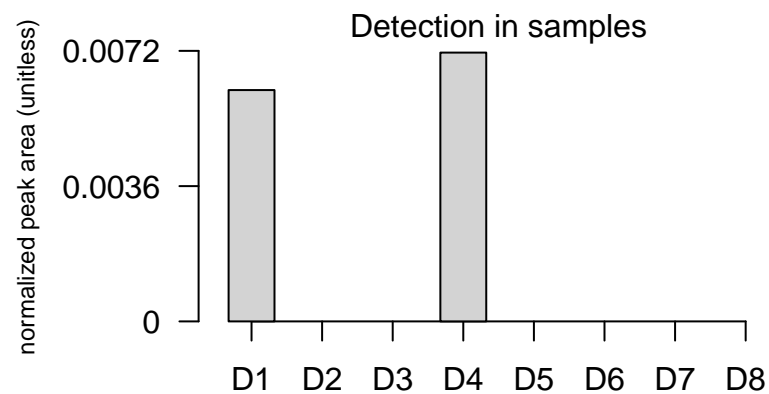
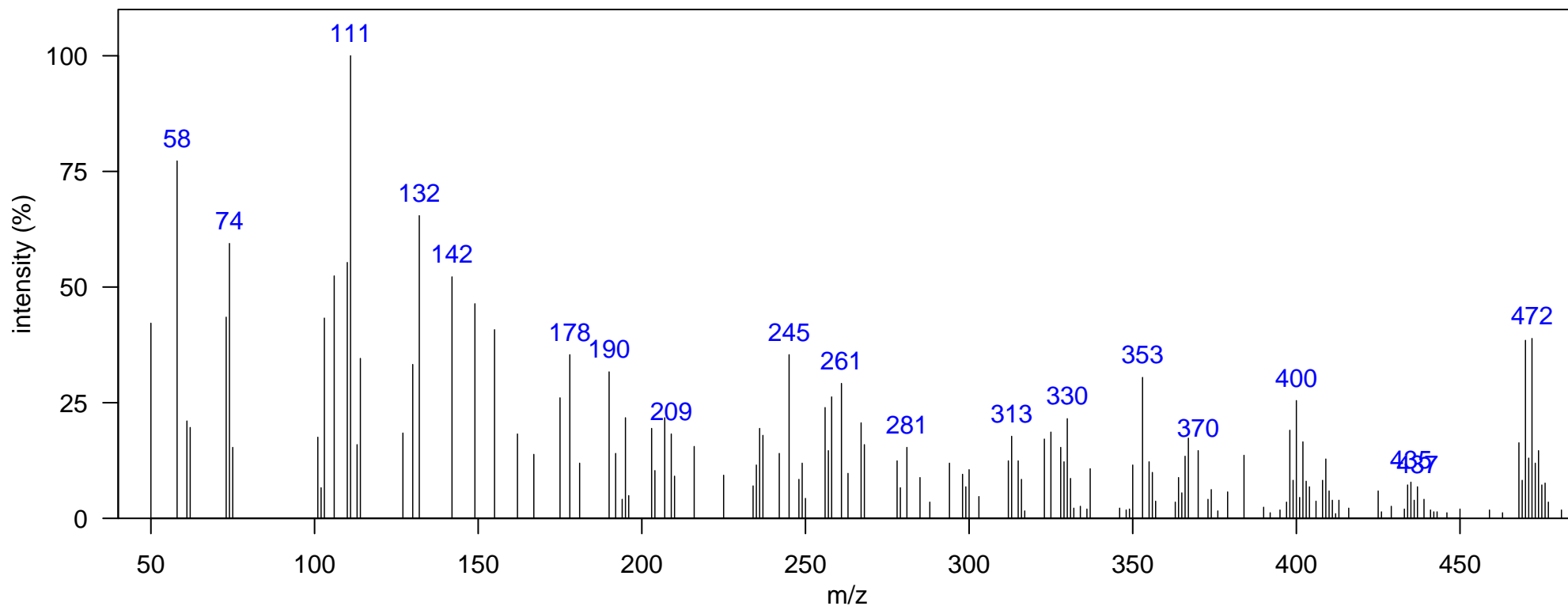
Quantitative Ion m/z: 470

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>

Name: terphenyl 7Cl 9

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1894.26, 2.614

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

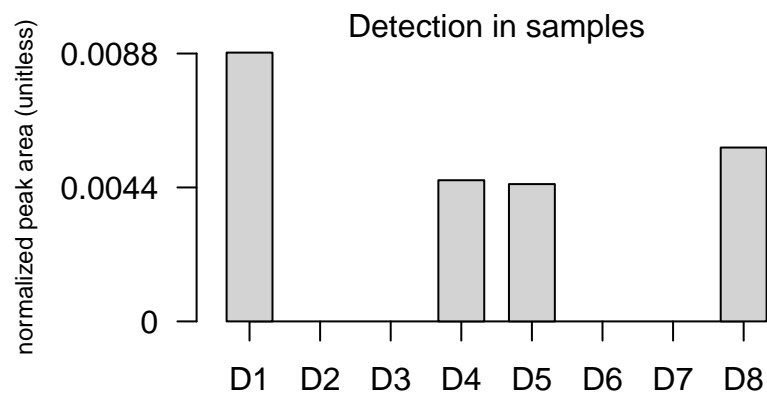
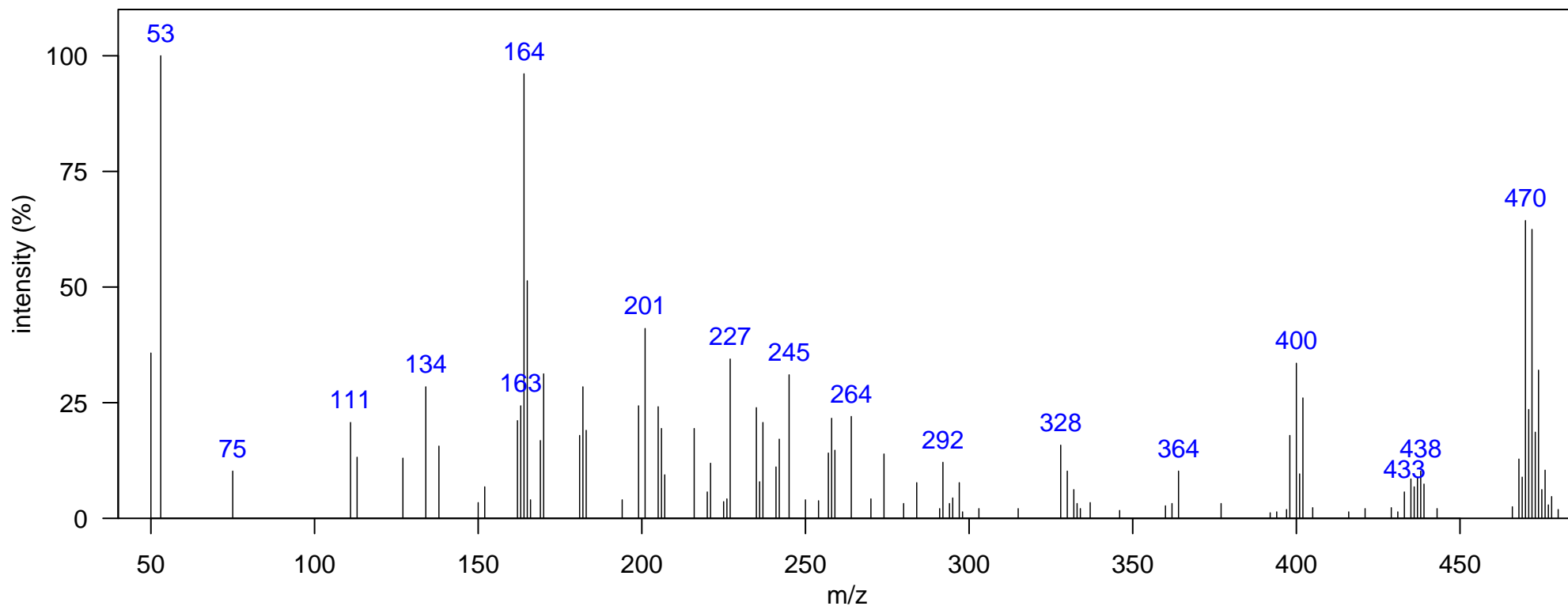
Quantitative Ion m/z: 470

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
398 [M-Cl <sub>2</sub> ] <sup>+</sup>
468 M <sup>+</sup>

Name: terphenyl 8Cl 1

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1799.81, 2.033

Ecotype: offshore

Quantitative Ion m/z: 504

Instrument: GCxGC-TOF, EI, 70 eV

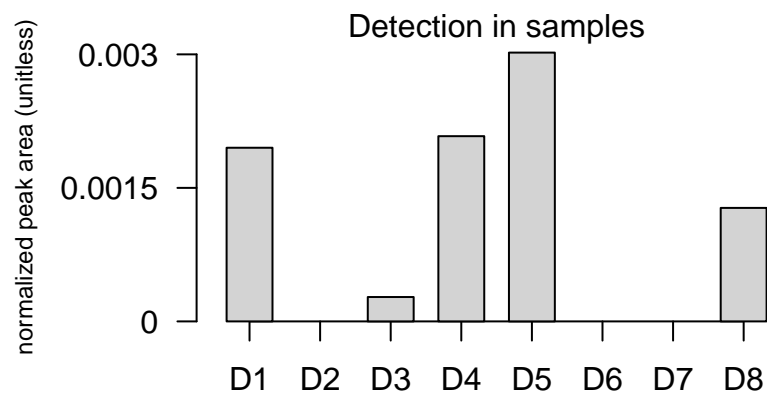
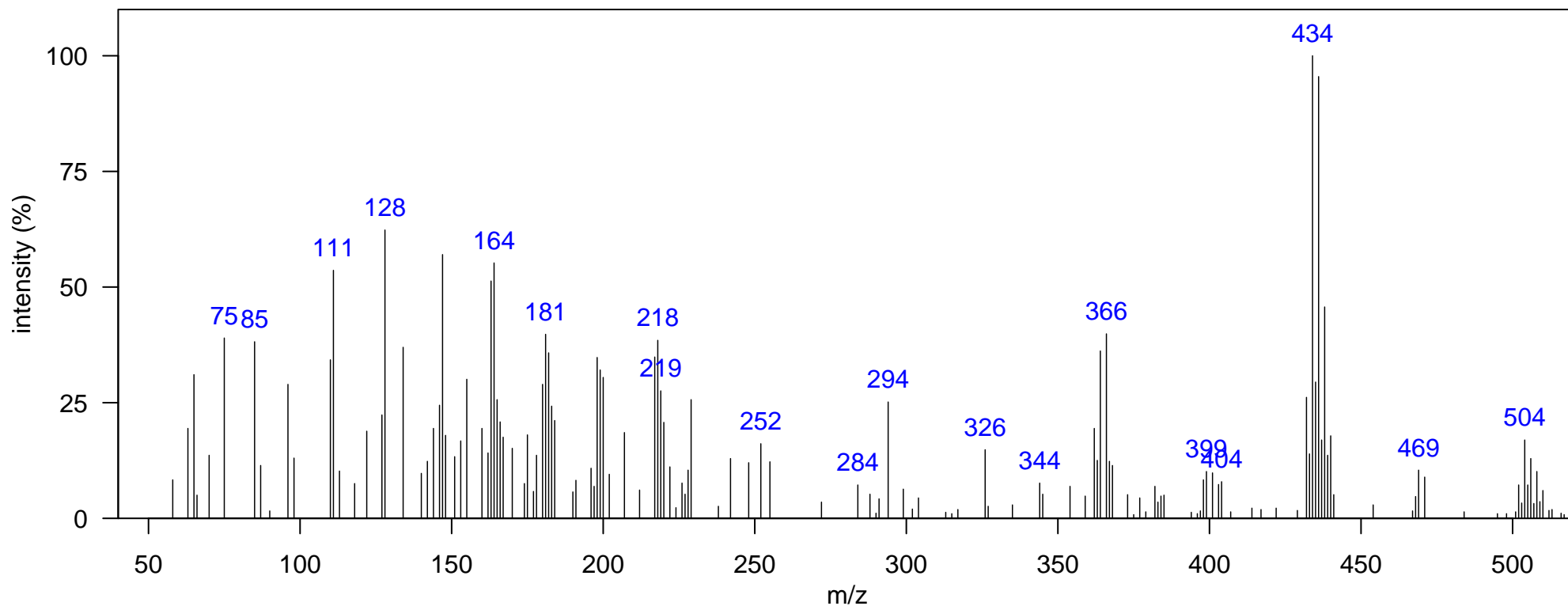
Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
432 [M-Cl <sub>2</sub> ] <sup>+</sup>
502 M <sup>+</sup>

Name: terphenyl 8Cl 2

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1894.26, 2.435

Ecotype: offshore

Quantitative Ion m/z: 504

Instrument: GCxGC-TOF, EI, 70 eV

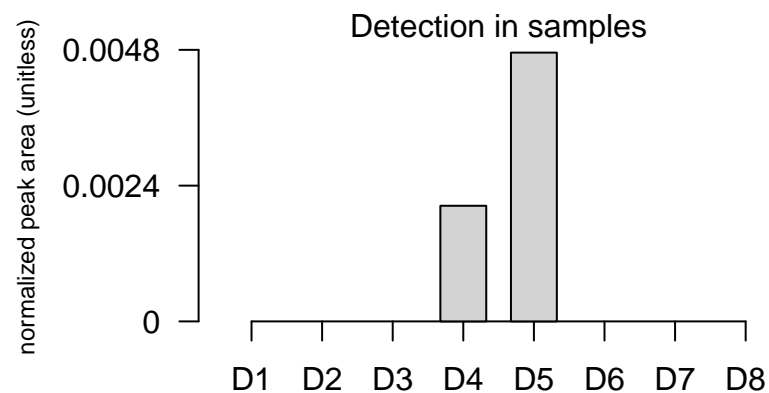
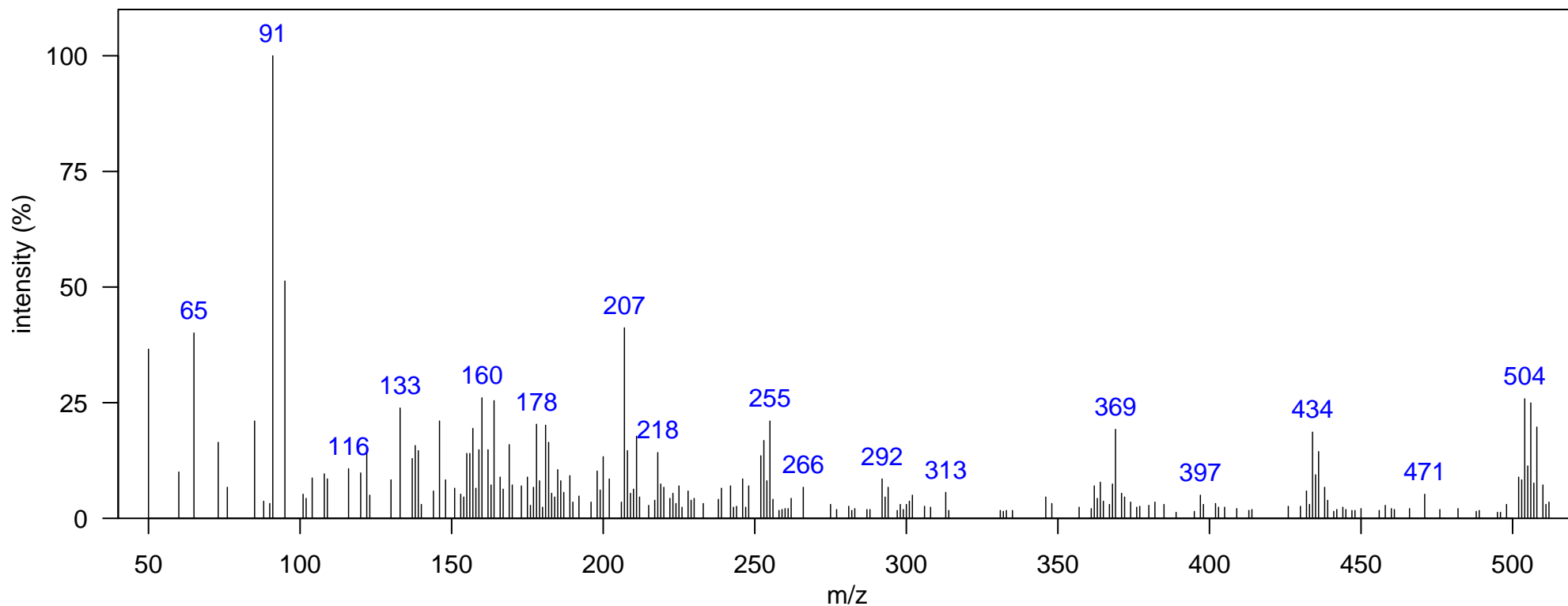
Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
432 [M-Cl <sub>2</sub> ] <sup>+</sup>
502 M <sup>+</sup>

Name: terphenyl 8Cl 3

Class: PCT

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1901.26, 2.455

Ecotype: offshore

Quantitative Ion m/z: 504

Instrument: GCxGC-TOF, EI, 70 eV

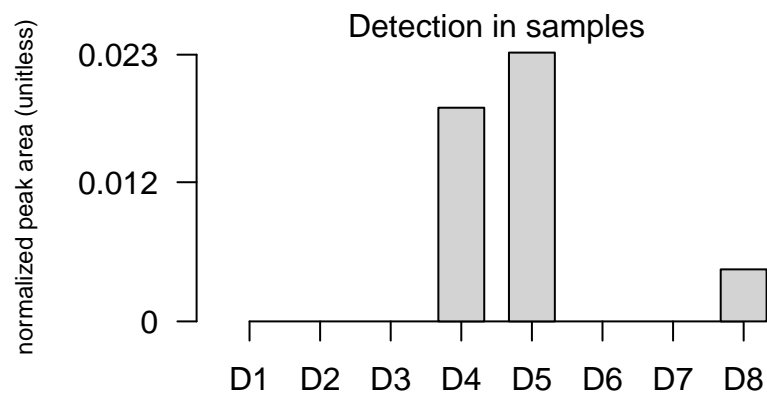
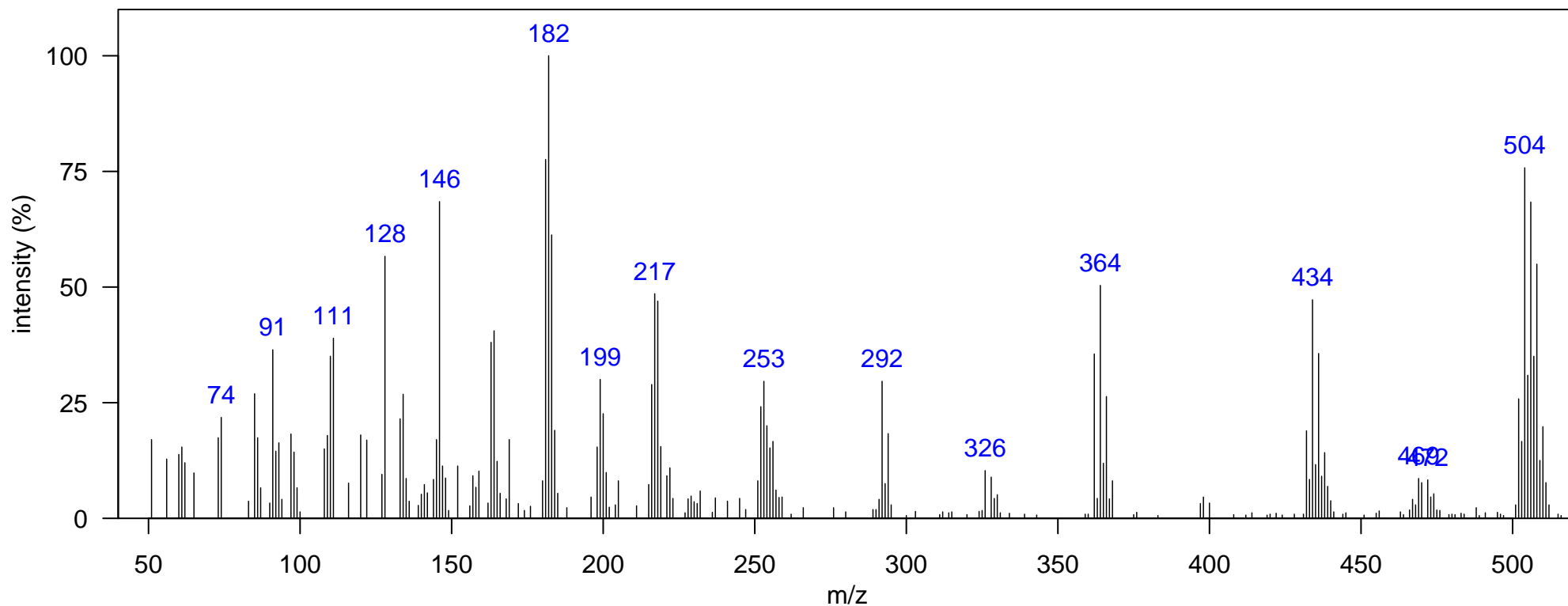
Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
432 [M-Cl <sub>2</sub> ] <sup>+</sup>
502 M <sup>+</sup>

Name: terphenyl 8Cl 4

Class: PCT

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1904.75, 2.475

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

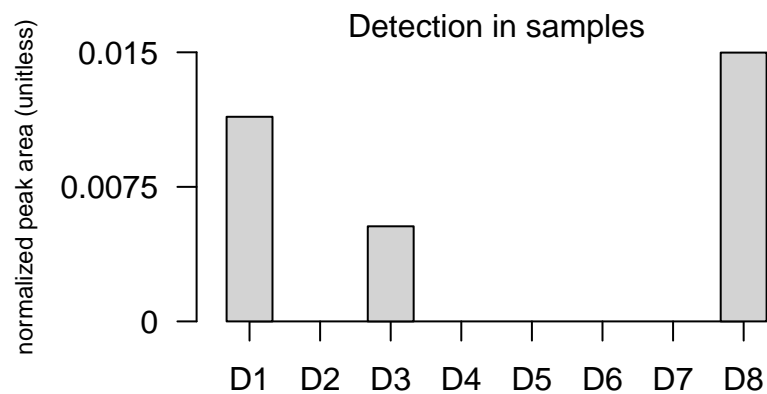
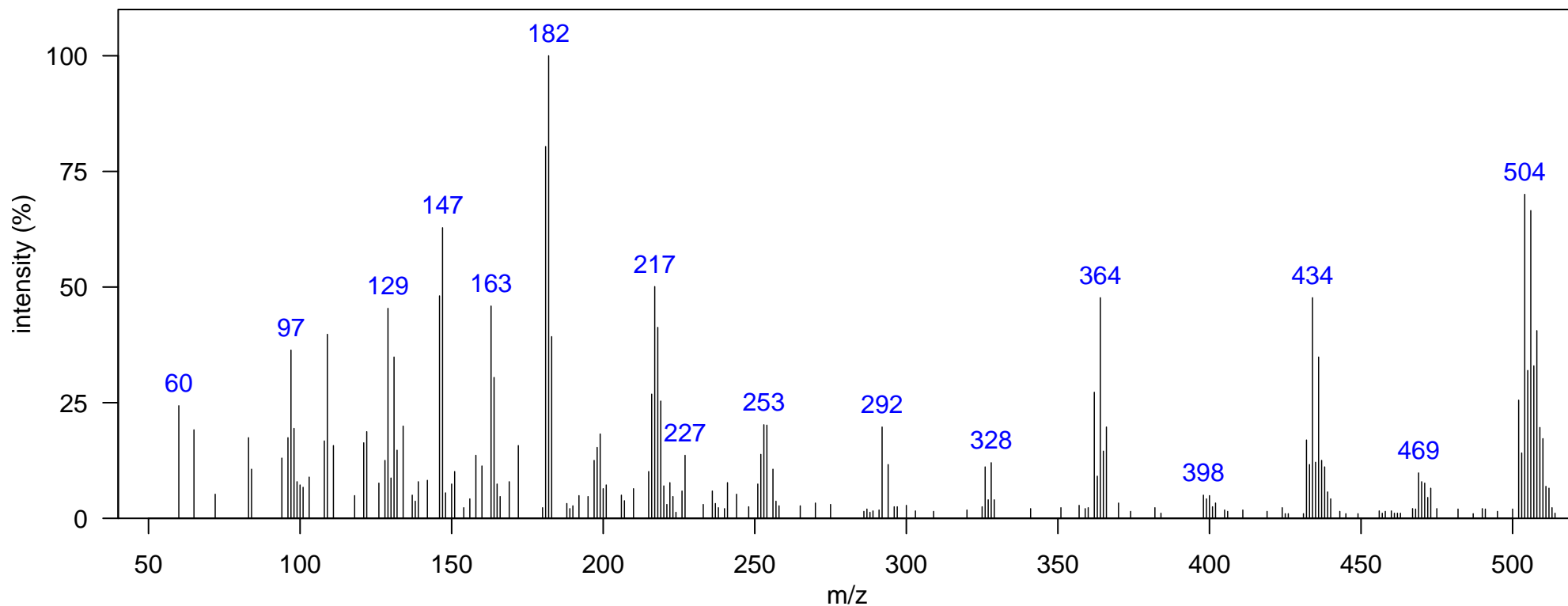
Quantitative Ion m/z: 504

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
432 [M-Cl <sub>2</sub> ] <sup>+</sup>
502 M <sup>+</sup>



Name: terphenyl 8Cl 5

Class: PCT

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1964.22, 2.963

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

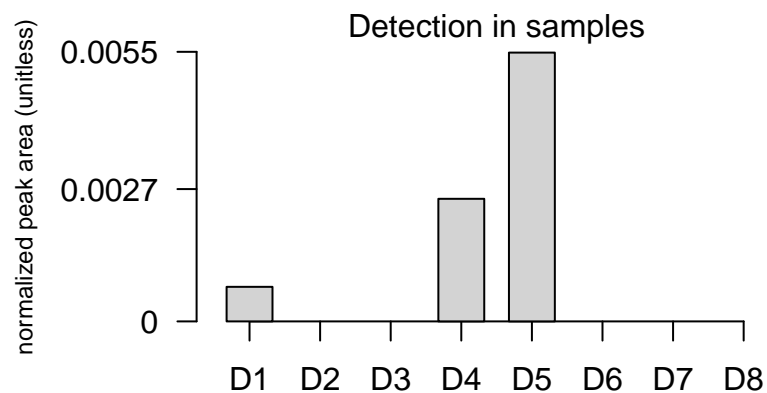
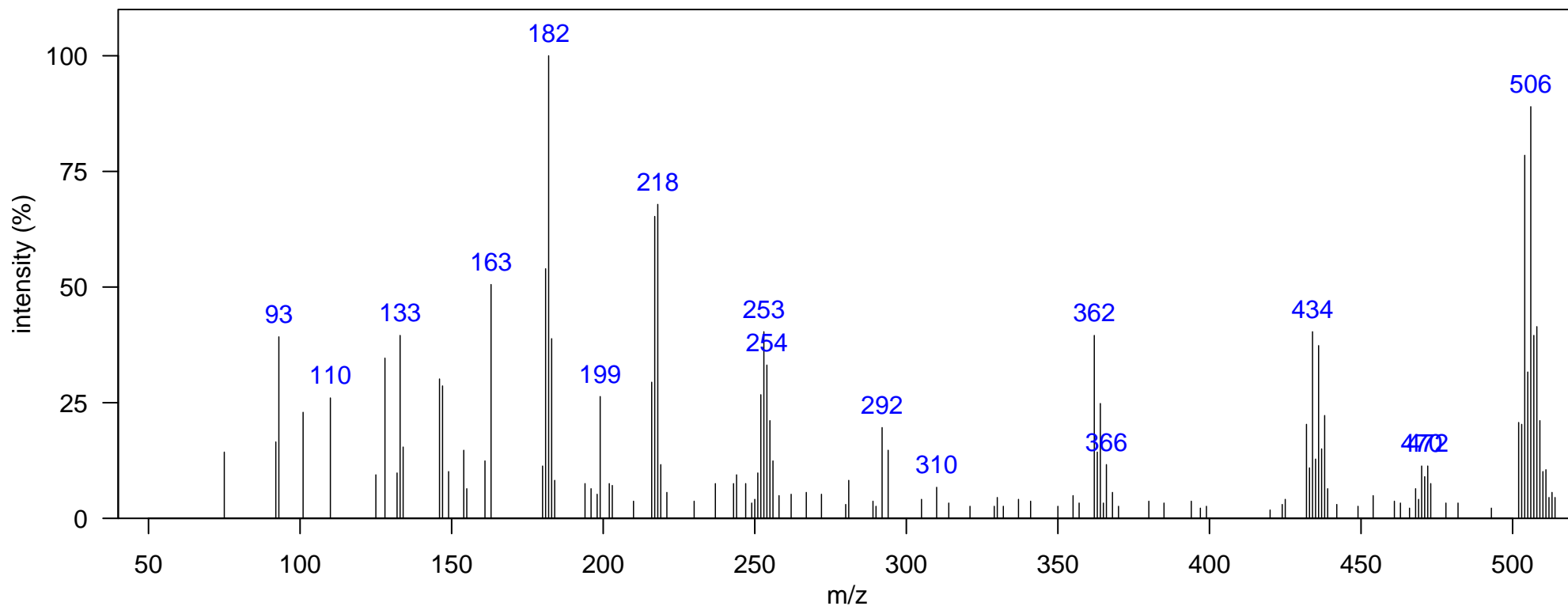
Quantitative Ion m/z: 504

Atlantic Lib:

Elemental Formula: C<sub>18</sub>H<sub>6</sub>Cl<sub>8</sub>

Source: anthropogenic

Identification: Manual-Congener Group



m/z [Fragment]
432 [M-Cl <sub>2</sub> ] <sup>+</sup>
502 M <sup>+</sup>

Name: methylsulfonylPCB-101

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1691.38, 2.165

Ecotype: coastal

Quantitative Ion m/z: 404

Instrument: GCxGC-TOF, EI, 70 eV

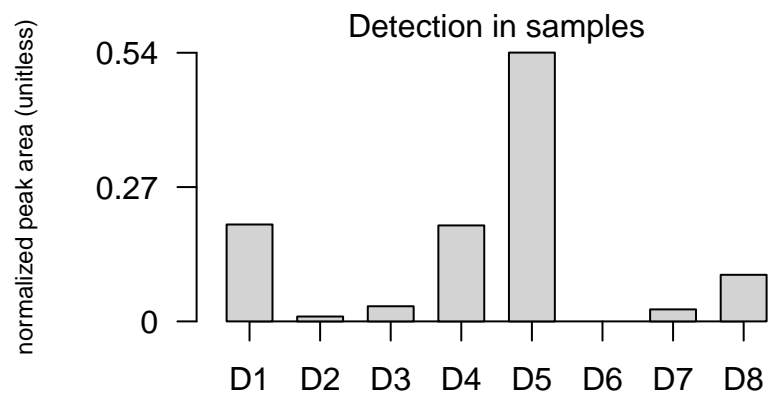
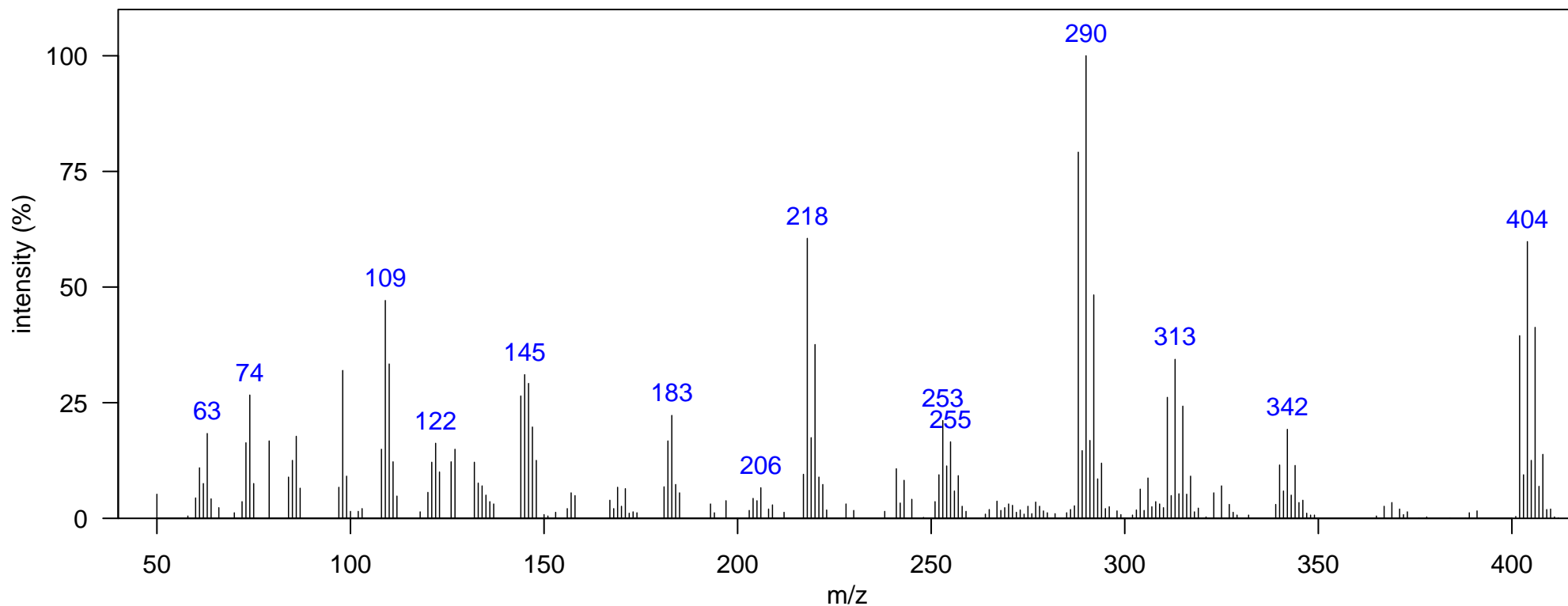
Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>7</sub>Cl<sub>5</sub>O<sub>2</sub>S

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]
288 [M-SO <sub>2</sub> CH <sub>3</sub> Cl] <sup>+</sup>
340 [M-CH <sub>2</sub> SO] <sup>+</sup>
402 M <sup>+</sup>

Name: methylsulfonylPCB 5Cl 1

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1708.87, 2.211

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

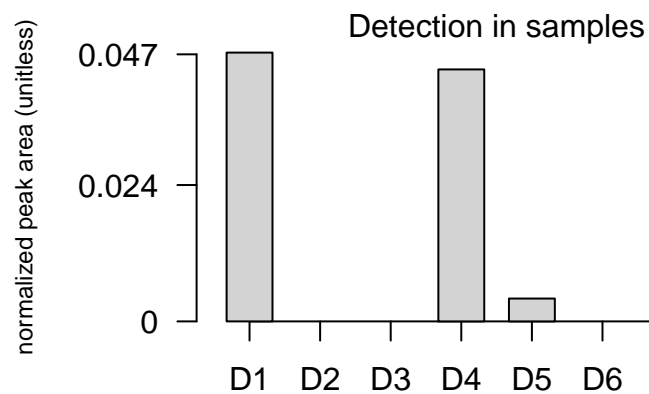
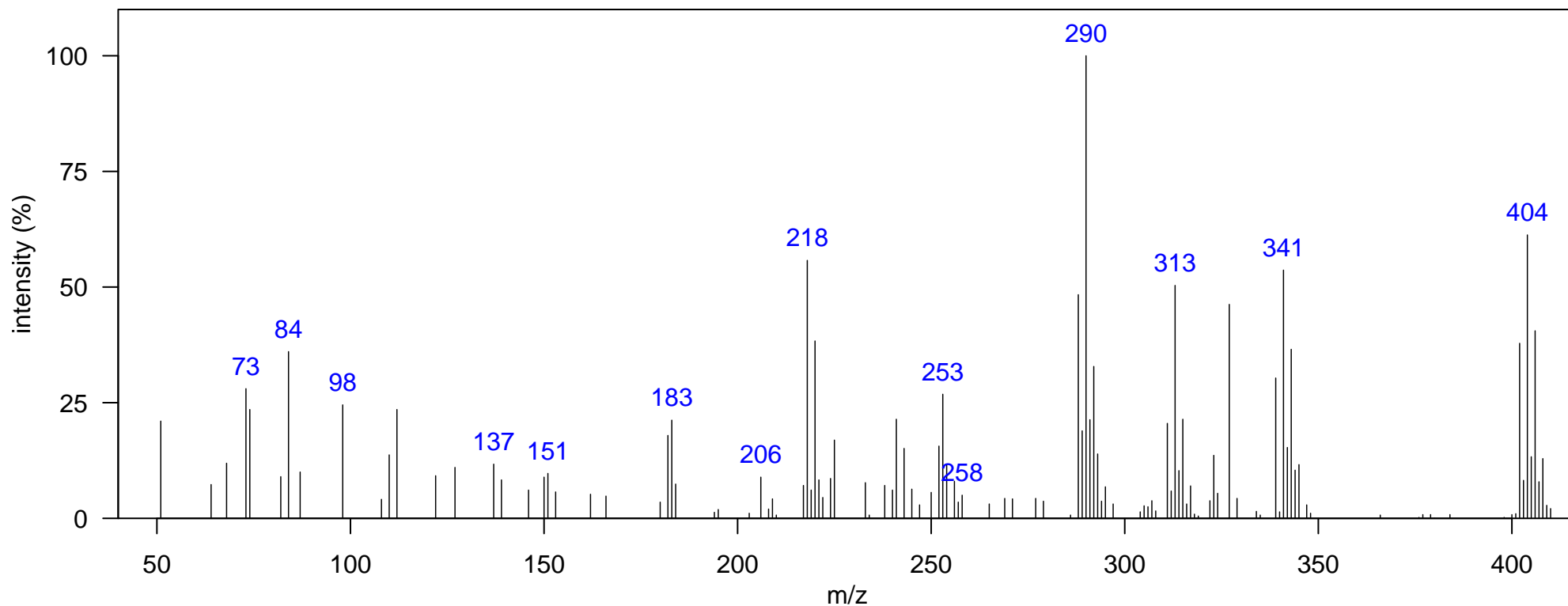
Quantitative Ion m/z: 404

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>7</sub>Cl<sub>5</sub>O<sub>2</sub>S

Source: anthropogenic

Identification: Authentic MS



m/z [Fragment]
288 [M-SO <sub>2</sub> CH <sub>3</sub> Cl] <sup>+</sup>
340 [M-CH <sub>2</sub> SO] <sup>+</sup>
402 M <sup>+</sup>

Name: methylsulfonylPCB 5Cl 2

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1729.85, 2.231

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

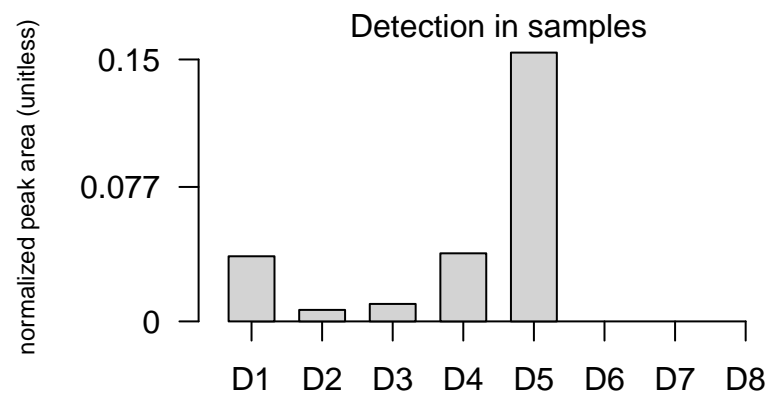
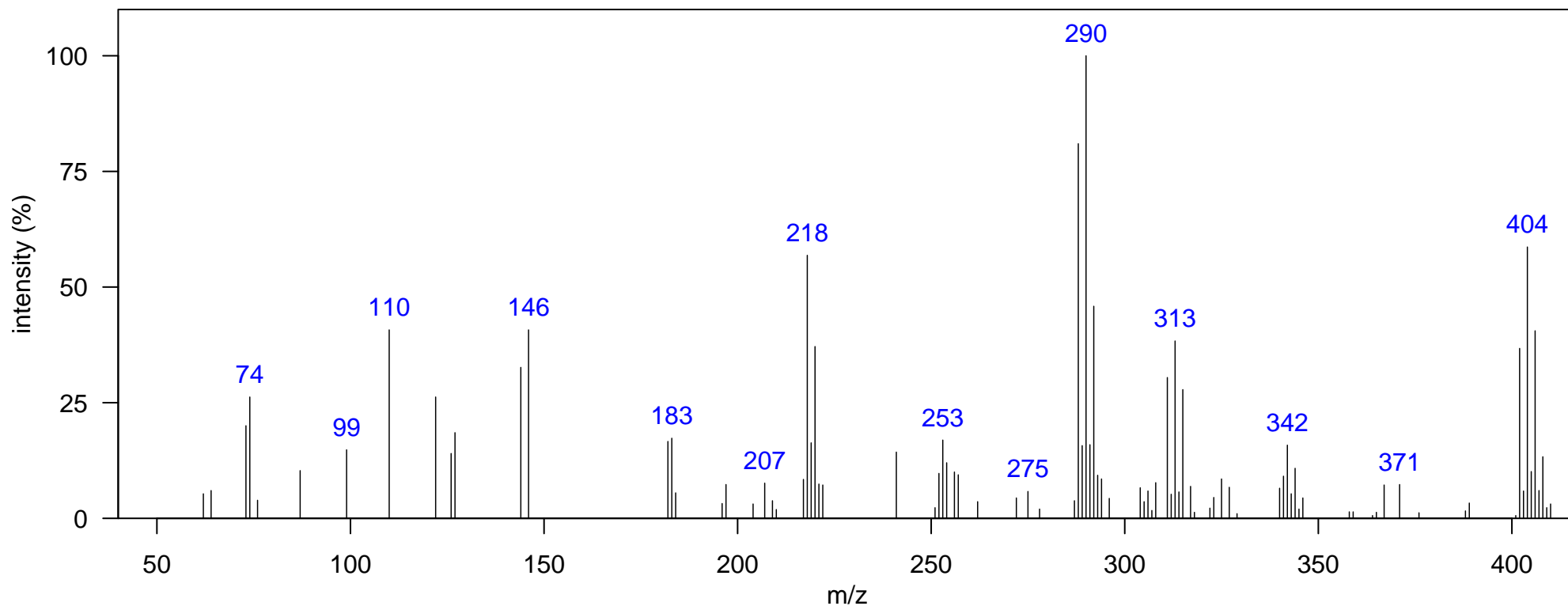
Quantitative Ion m/z: 404

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>7</sub>Cl<sub>5</sub>O<sub>2</sub>S

Source: anthropogenic

Identification: Authentic MS



m/z [Fragment]
288 [M-SO <sub>2</sub> CH <sub>3</sub> Cl] <sup>+</sup>
340 [M-CH <sub>2</sub> SO] <sup>+</sup>
402 M <sup>+</sup>

Name: methylsulfonylPCB 5Cl 3

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1747.34, 2.165

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

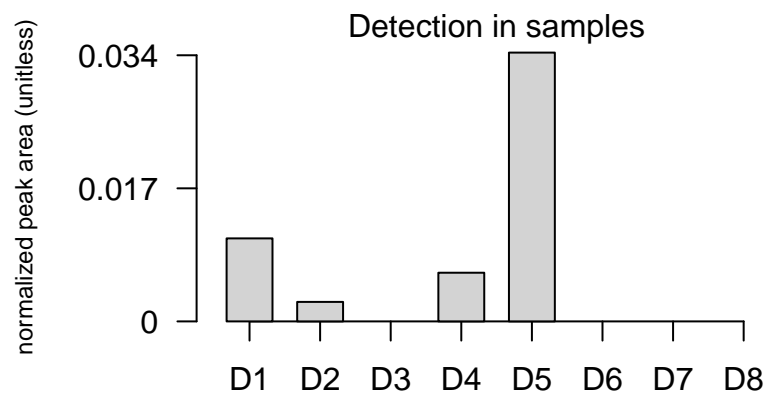
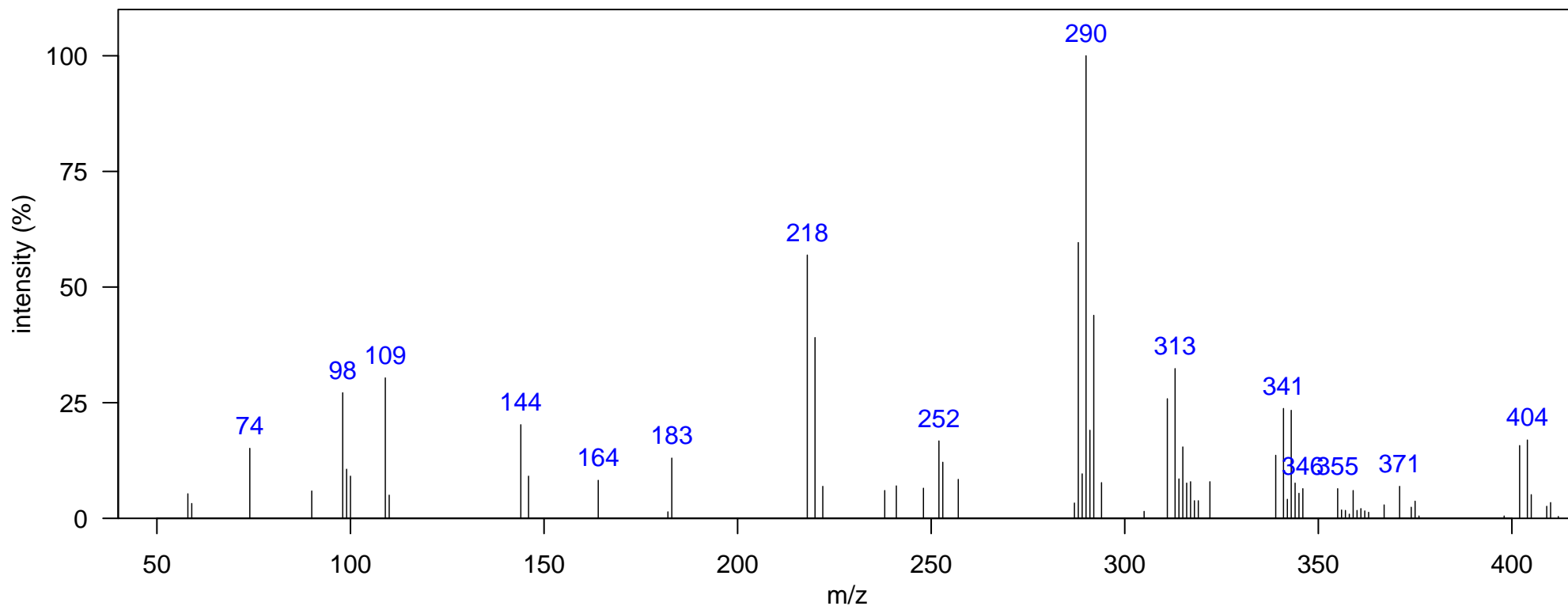
Quantitative Ion m/z: 404

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>7</sub>Cl<sub>5</sub>O<sub>2</sub>S

Source: anthropogenic

Identification: Authentic MS



m/z [Fragment]
288 [M-SO <sub>2</sub> CH <sub>3</sub> Cl] <sup>+</sup>
340 [M-CH <sub>2</sub> SO] <sup>+</sup>
402 M <sup>+</sup>

Name: methylsulfonylPCB 6Cl 1

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1740.35, 2.02

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

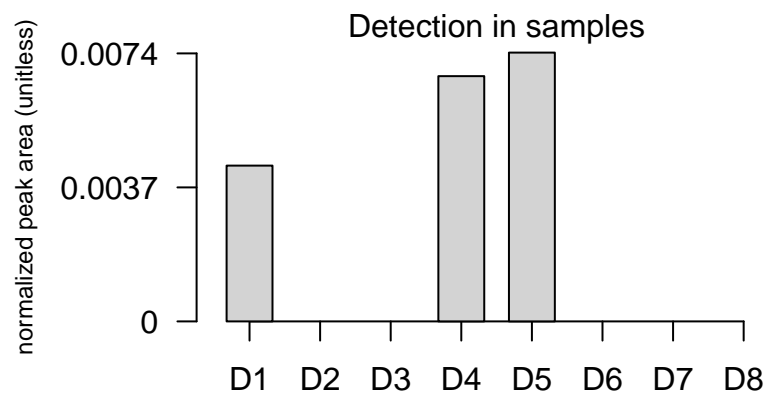
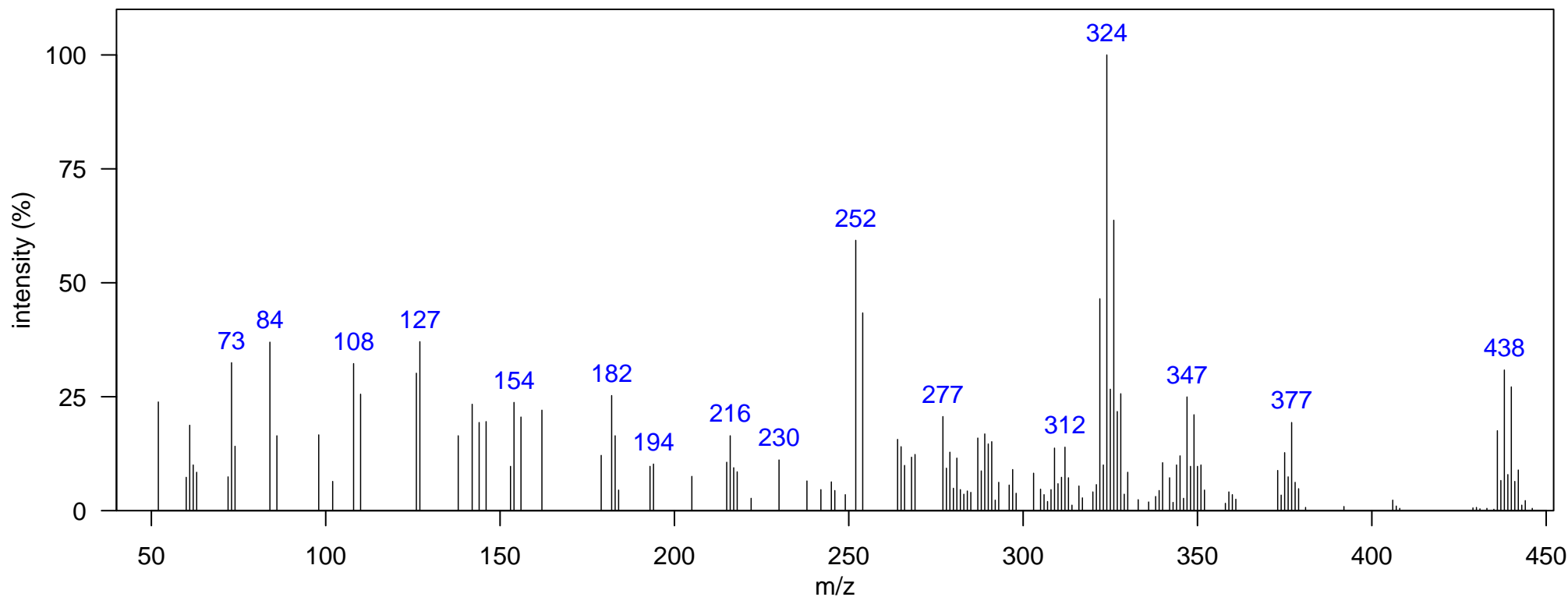
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>6</sub>Cl<sub>6</sub>O<sub>2</sub>S

Source: anthropogenic

Identification: Authentic MS



m/z [Fragment]
322 [M-CH <sub>3</sub> SO <sub>2</sub> Cl] <sup>+</sup>
373 [M-CH <sub>3</sub> SO] <sup>+</sup>
436 M <sup>+</sup>

Name: methylsulfonylPCB 6Cl 2

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1806.81, 2.31

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

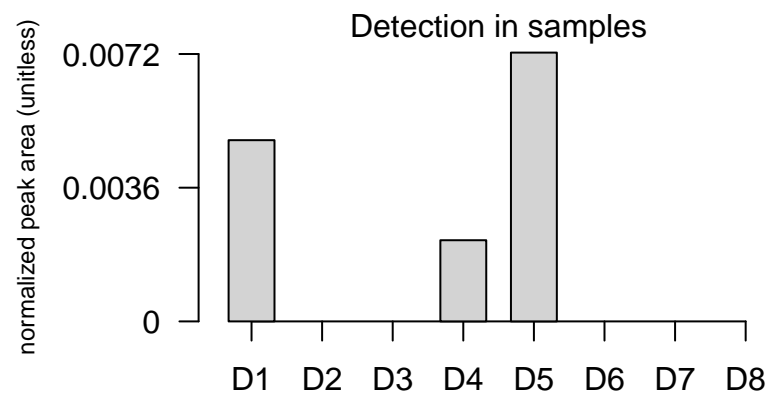
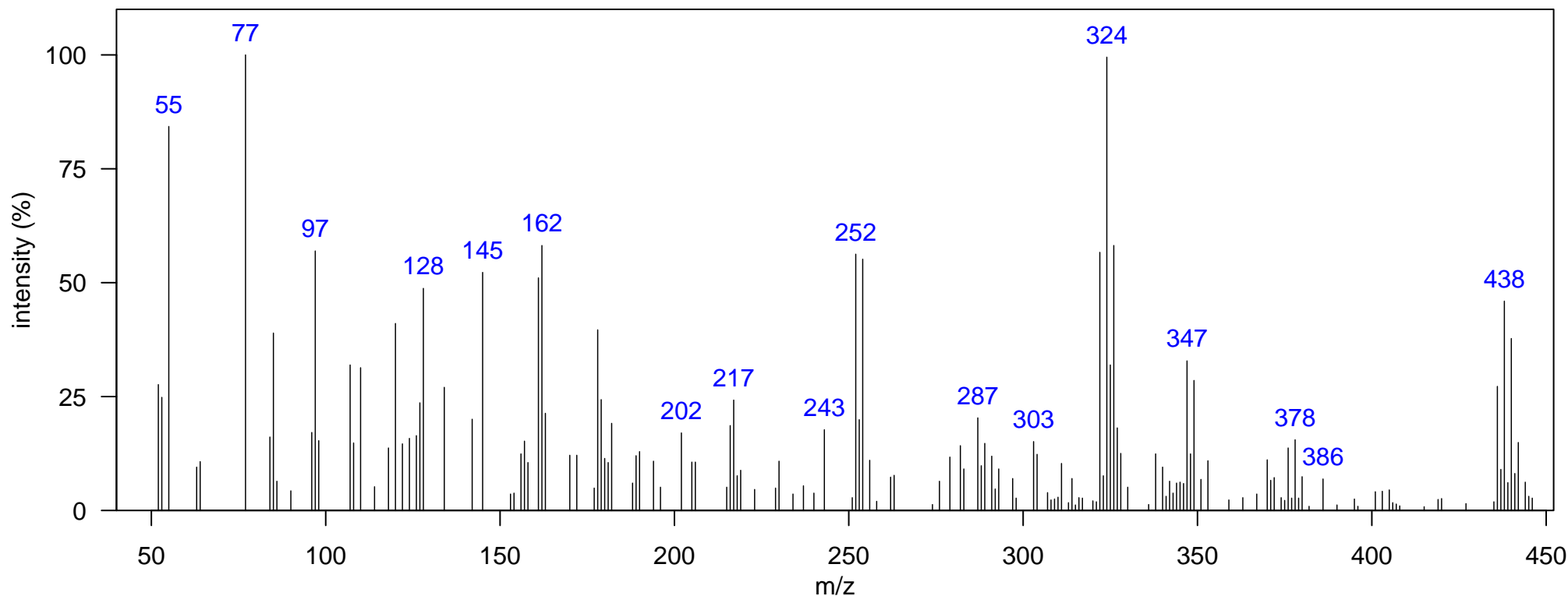
Quantitative Ion m/z: 438

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>6</sub>Cl<sub>6</sub>O<sub>2</sub>S

Source: anthropogenic

Identification: Authentic MS



m/z [Fragment]
322 [M-CH <sub>3</sub> SO <sub>2</sub> Cl] <sup>+</sup>
436 M <sup>+</sup>

Name: methylenebistrichloroanisole

Class: Methylenebistrichloroanisole

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1645.9, 1.861

Ecotype: coastal

Quantitative Ion m/z: 223

Instrument: GCxGC-TOF, EI, 70 eV

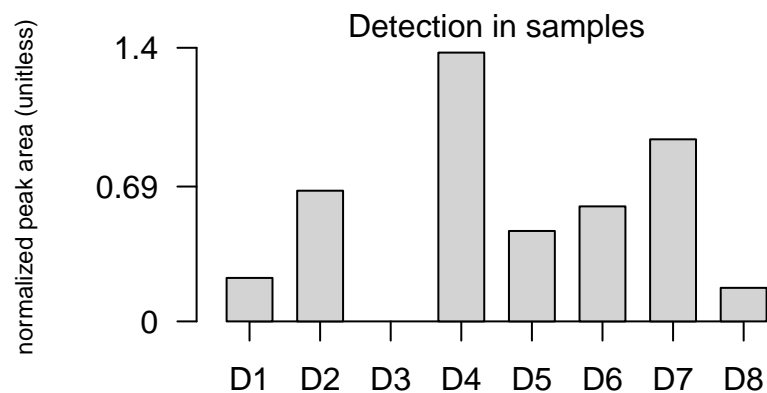
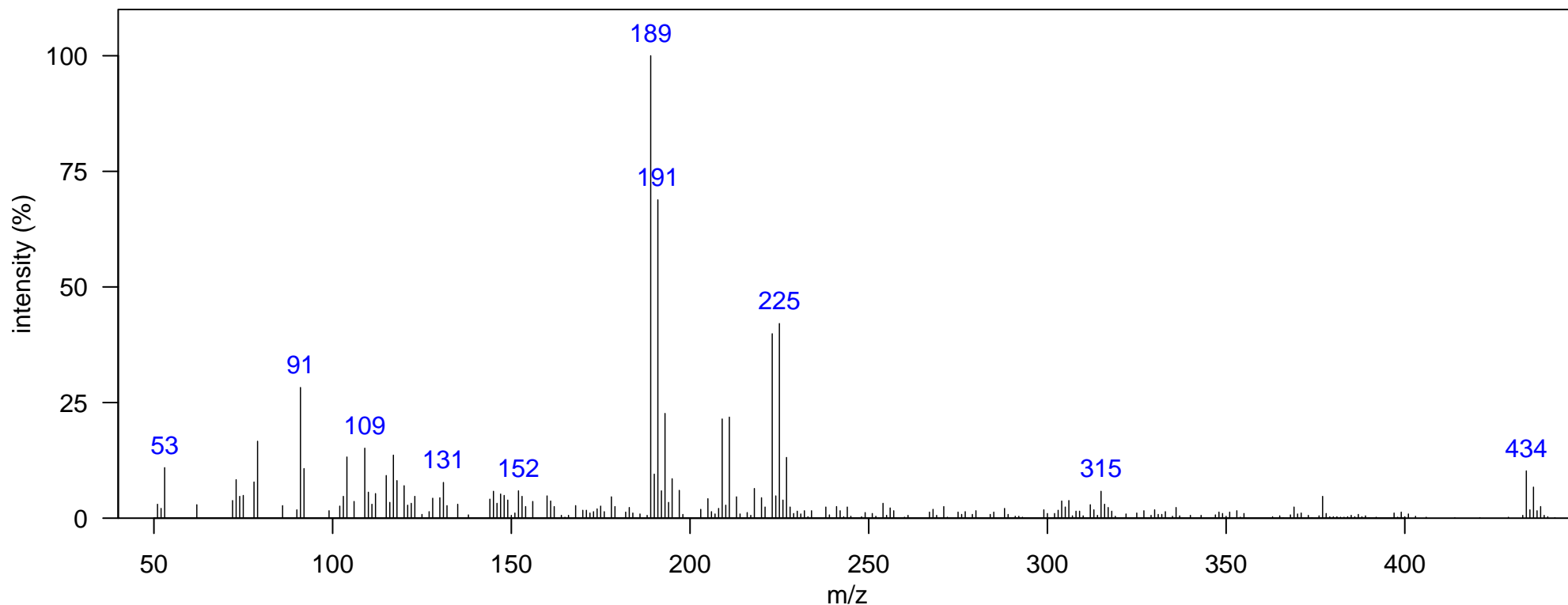
Atlantic Lib:

Elemental Formula: C<sub>15</sub>H<sub>10</sub>Cl<sub>6</sub>O<sub>2</sub>

Source: anthropogenic

Comment: 2,2'-methylenebis(3,4,6-trichloroanisole)

Identification: Reference Database MS



m/z [Fragment]

209 [223-CH<sub>2</sub>]<sup>+</sup>

223 [M-C<sub>7</sub>H<sub>4</sub>Cl<sub>3</sub>O]<sup>+</sup>

432 M<sup>+</sup>



Name: 1,2,4-trichlorobenzene

Class: Chlorinated benzene

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 697.94, 1.003

Ecotype: coastal

Quantitative Ion m/z: 182

Instrument: GCxGC-TOF, EI, 70 eV

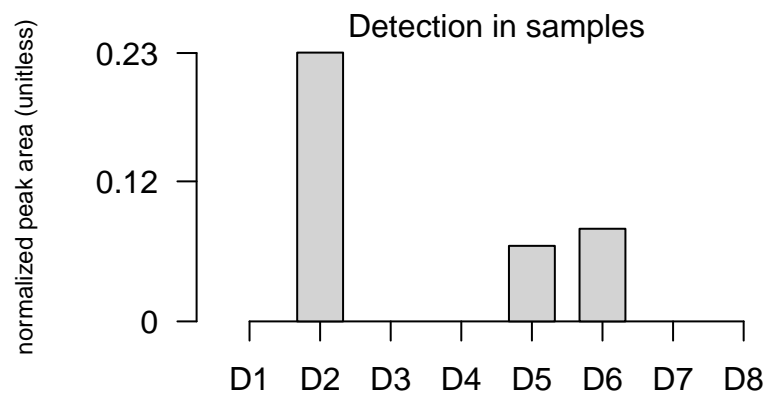
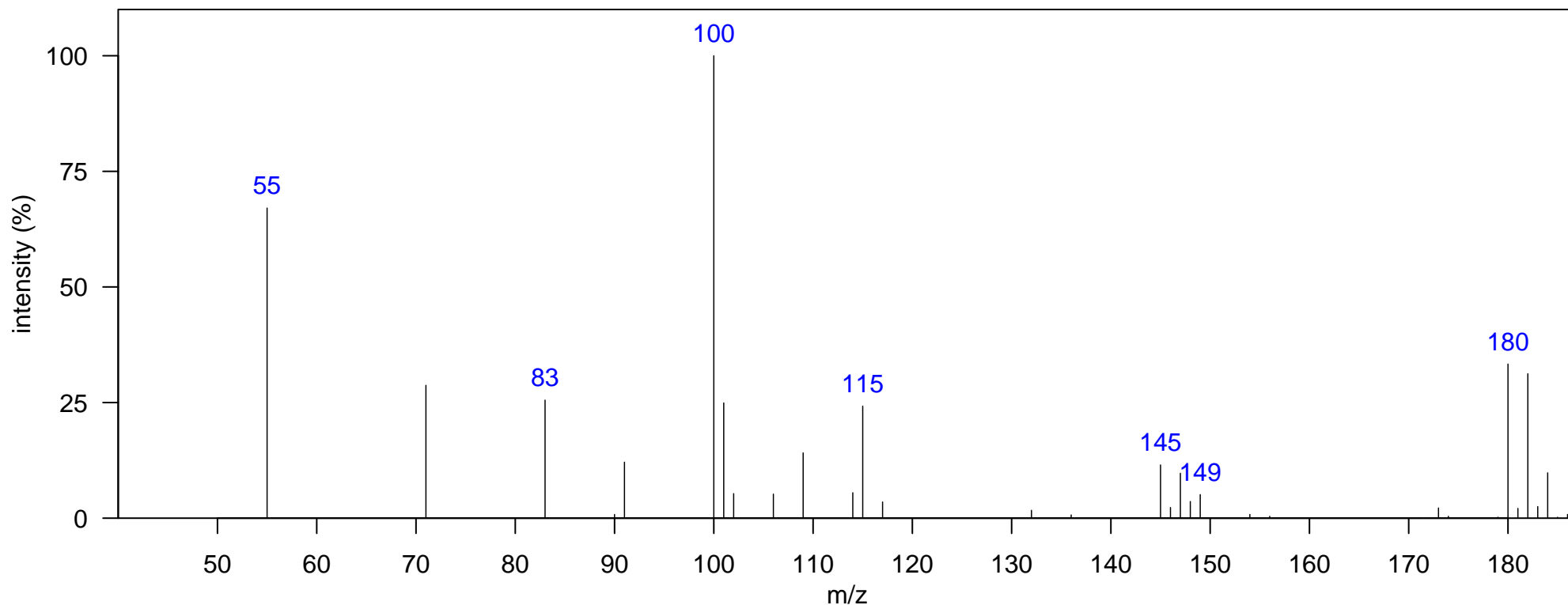
Atlantic Lib:

Elemental Formula: C<sub>6</sub>H<sub>3</sub>Cl<sub>3</sub>

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]
145 [M-Cl]+
180 M+

Name: 1,2,3,4-tetrachlorobenzene

Class: Chlorinated benzene

Sample: SoCal dolphin blubber D6, DSJ2155 1D RT, 2D RT (s): 865.85, 1.076

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

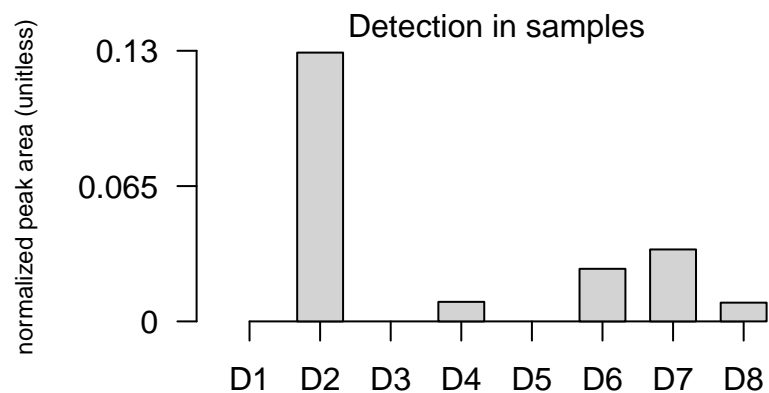
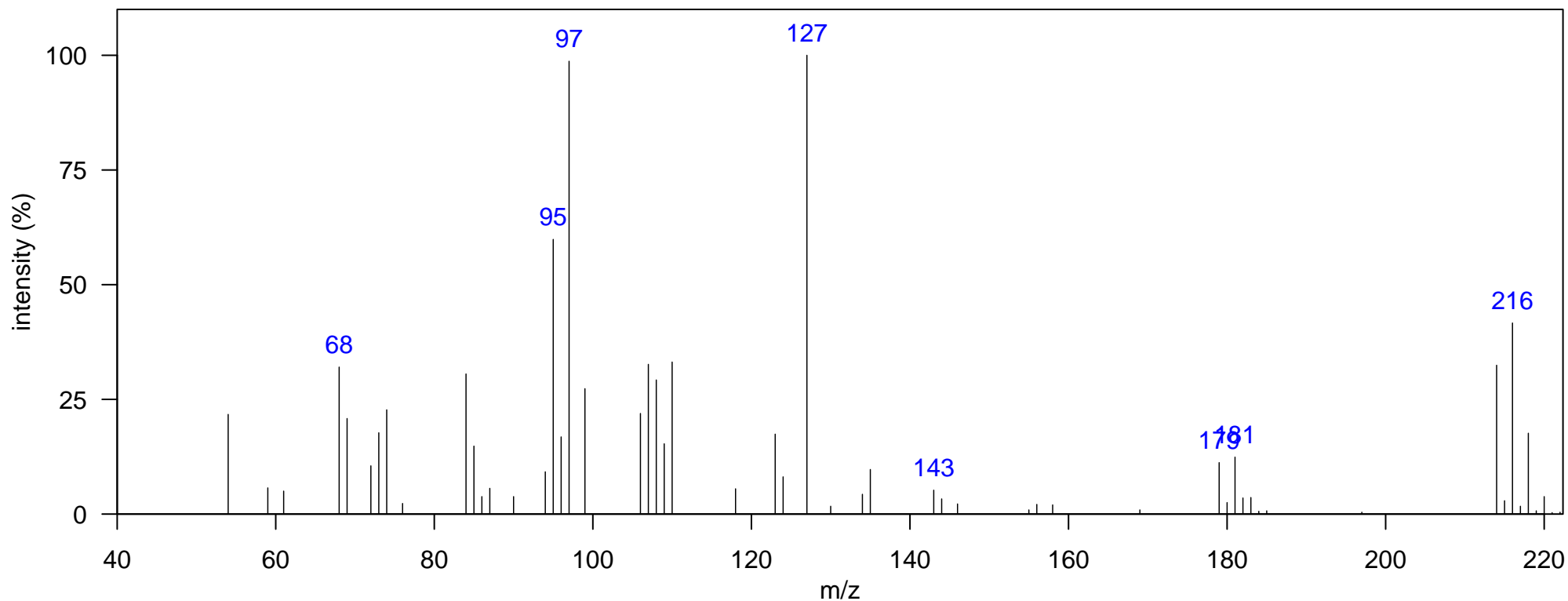
Quantitative Ion m/z: 216

Atlantic Lib:

Elemental Formula: C<sub>6</sub>H<sub>2</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Authentic MS RT



m/z [Fragment]
179 [M-Cl]+
214 M+

Name: pentachlorobenzene

Class: Chlorinated benzene

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 974.29, 1.096

Ecotype: offshore

Quantitative Ion m/z: 250

Instrument: GCxGC-TOF, EI, 70 eV

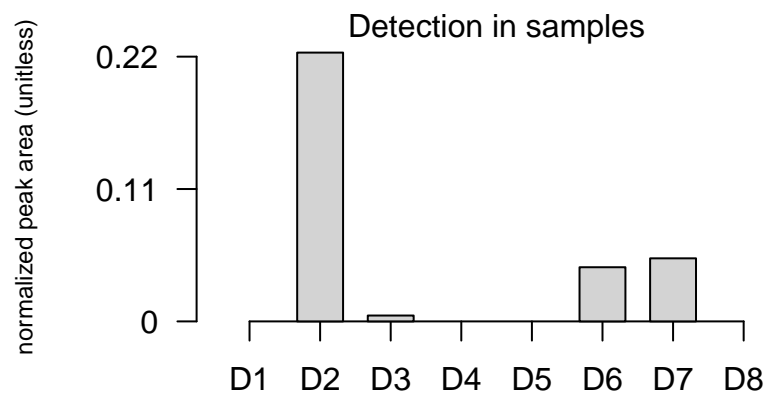
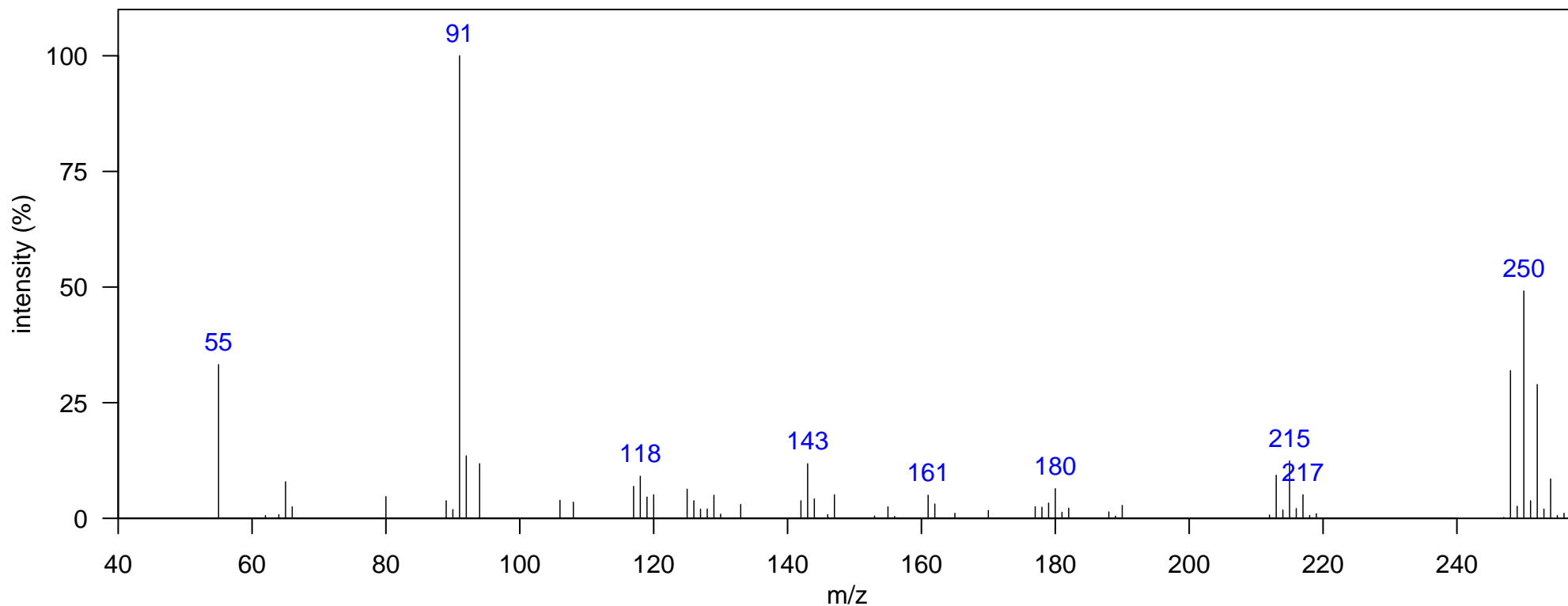
Atlantic Lib:

Elemental Formula: C<sub>6</sub>HCl<sub>5</sub>

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]
213 [M-Cl] <sup>+</sup>
248 M <sup>+</sup>

Name: hexachlorobenzene

Class: Chlorinated benzene

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1107.21, 1.162

Ecotype: coastal

Quantitative Ion m/z: 284

Instrument: GCxGC-TOF, EI, 70 eV

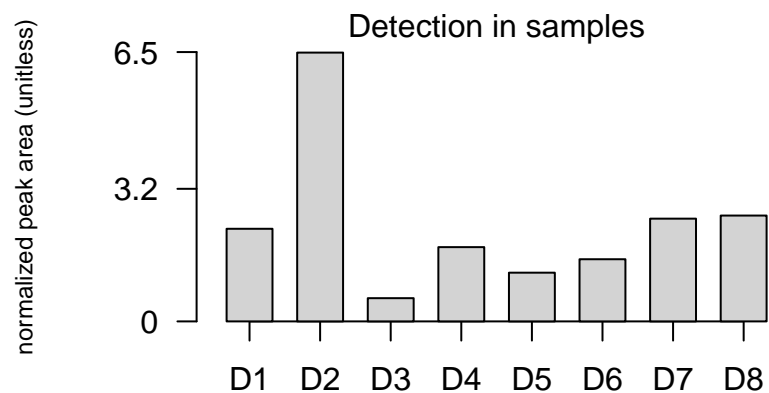
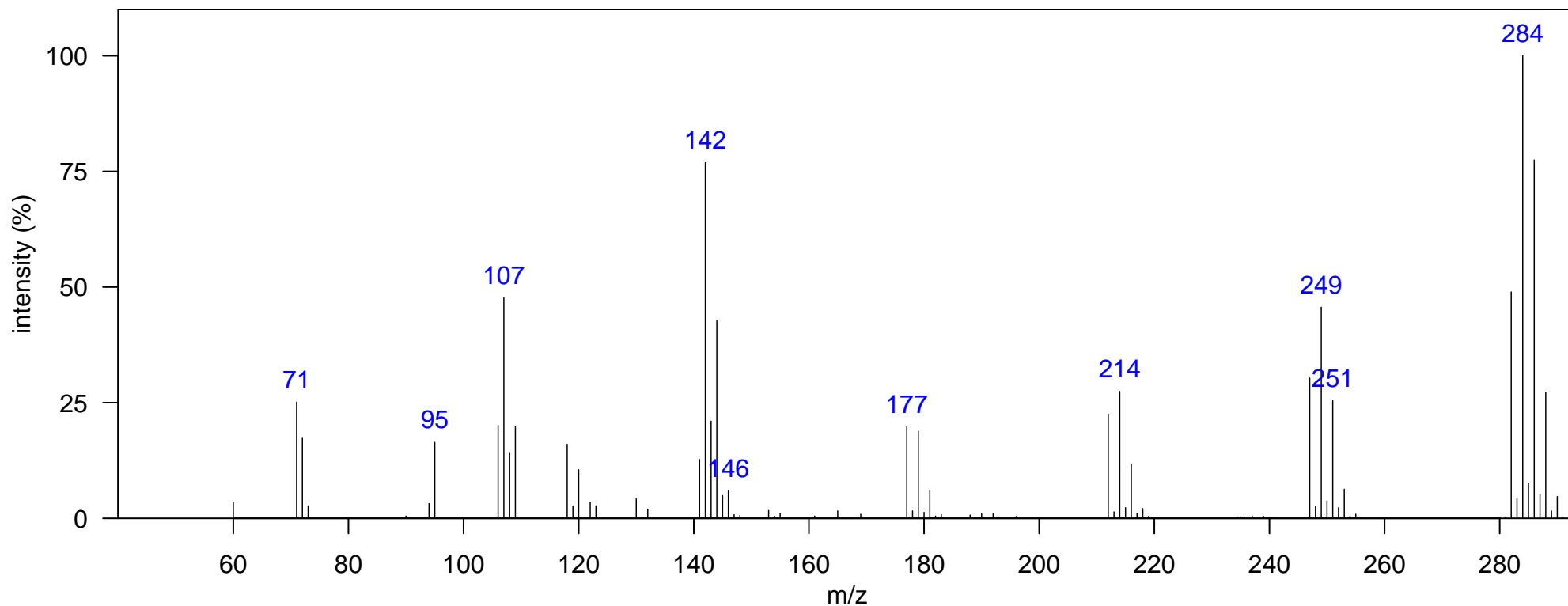
Atlantic Lib: hexachlorobenzene

Elemental Formula: C<sub>6</sub>Cl<sub>6</sub>

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]
247 [M-Cl] <sup>+</sup>
282 M <sup>+</sup>

Name: cyclohexene 4Cl 1

Class: HCH-related

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 879.84, 1.115

Ecotype: coastal

Quantitative Ion m/z: 147

Instrument: GCxGC-TOF, EI, 70 eV

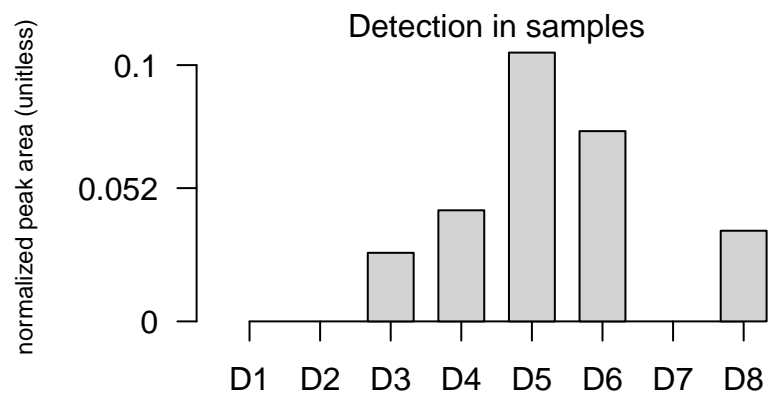
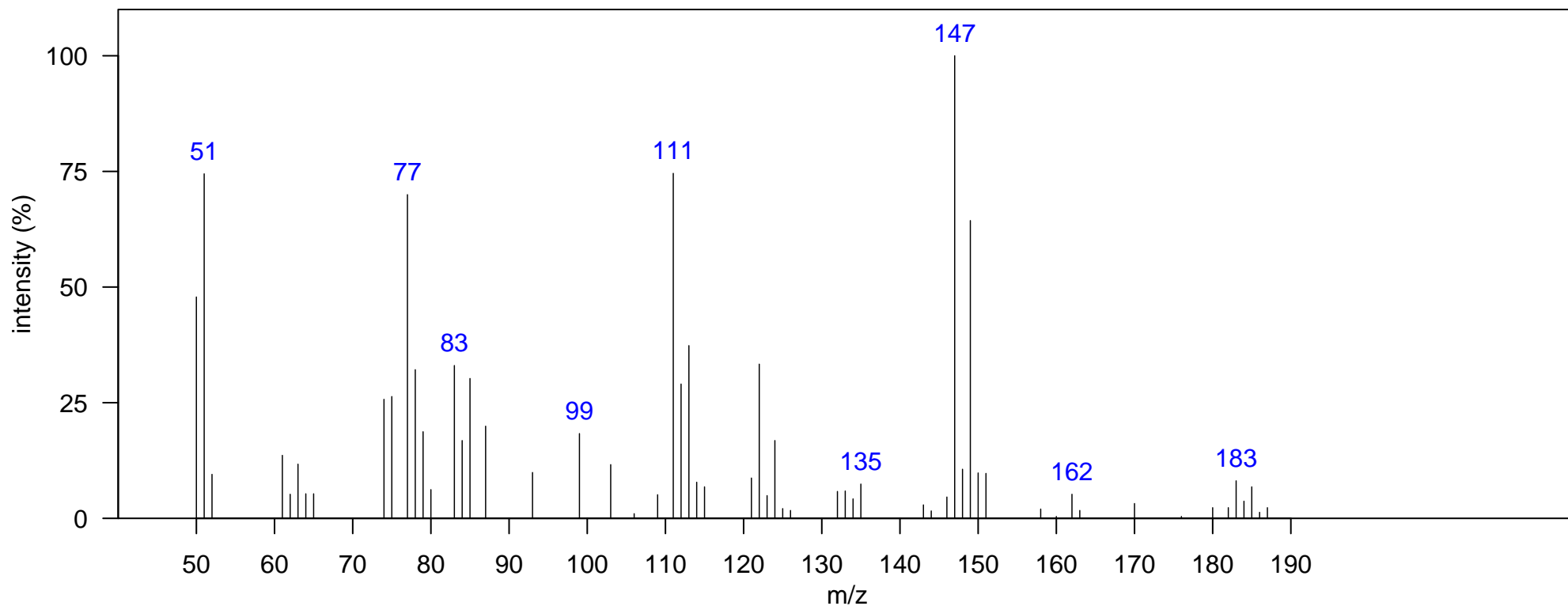
Atlantic Lib:

Elemental Formula: C<sub>6</sub>H<sub>6</sub>Cl<sub>4</sub>

Source: anthropogenic

Comment:

Identification: Reference Database MS



m/z [Fragment]
147 [M-HCl <sub>2</sub> ] <sup>+</sup>
183 [M-Cl] <sup>+</sup>

Name: cyclohexene 4Cl 2

Class: HCH-related

Sample: SoCal dolphin blubber D6, DSJ2155 1D RT, 2D RT (s): 1128.2, 0.878

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

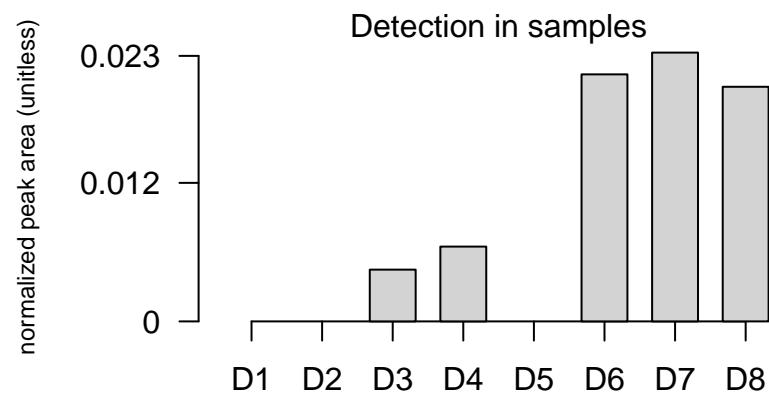
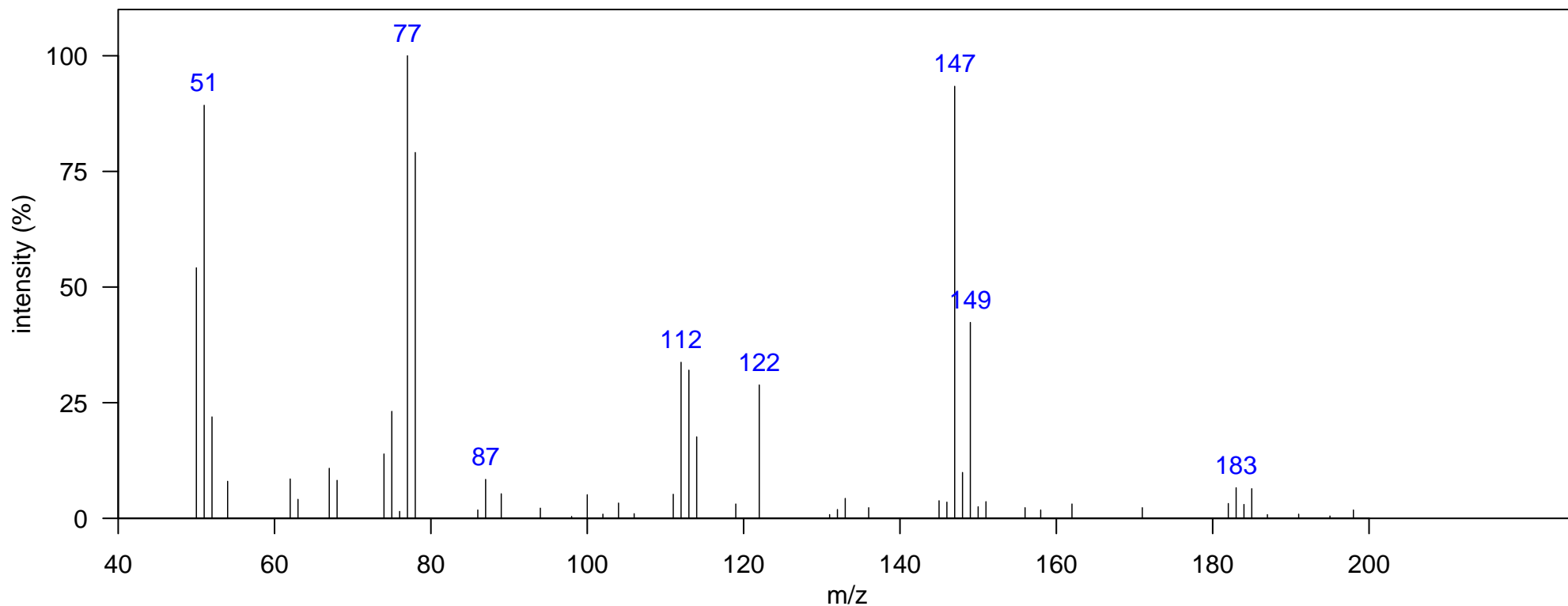
Quantitative Ion m/z: 147

Atlantic Lib:

Elemental Formula: C<sub>6</sub>H<sub>6</sub>Cl<sub>4</sub>

Source: anthropogenic

Identification: Reference Database MS



m/z [Fragment]
147 [M-HCl <sub>2</sub> ] <sup>+</sup>
183 [M-Cl] <sup>+</sup>

Name: alpha BHC

Class: HCH-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1093.22, 1.214

Ecotype: coastal

Quantitative Ion m/z: 219

Elemental Formula: C<sub>6</sub>H<sub>6</sub>Cl<sub>6</sub>

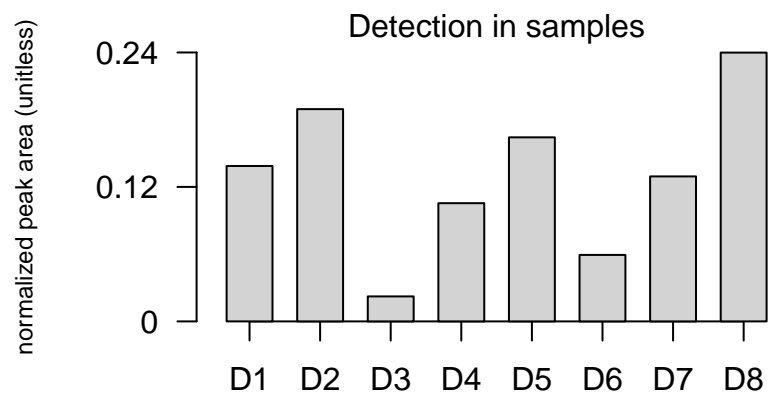
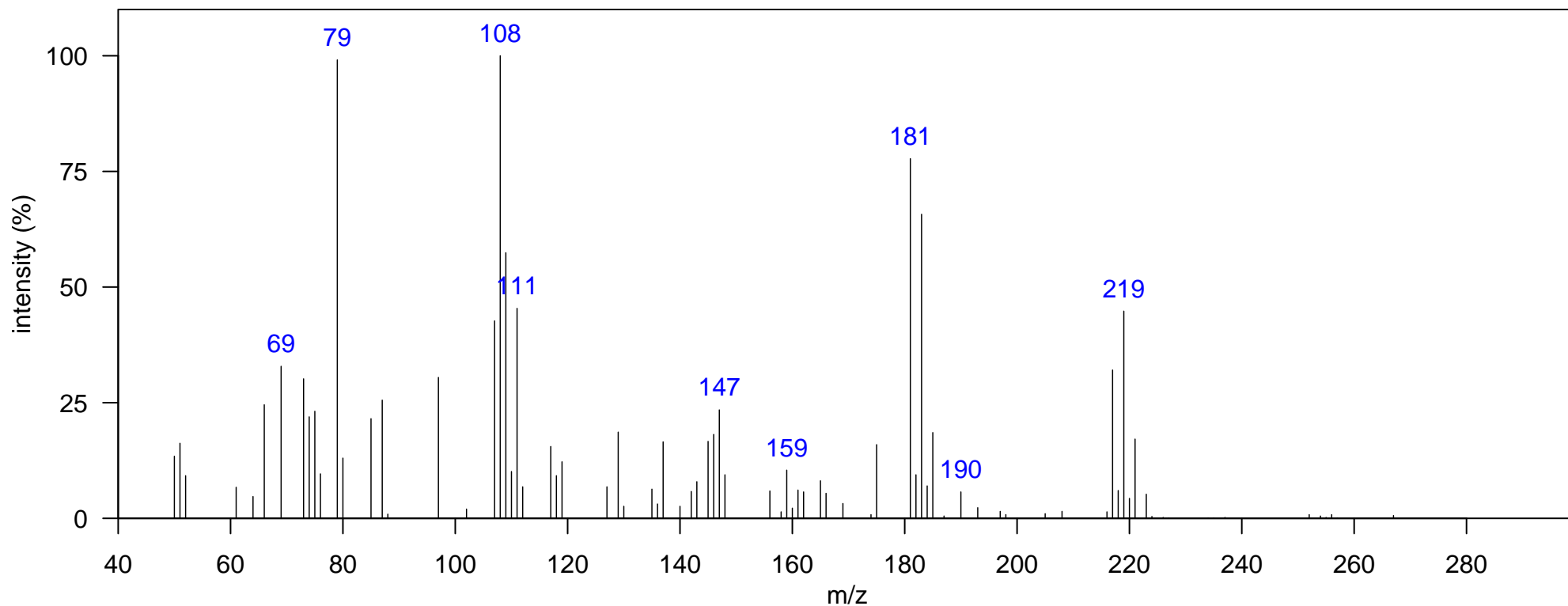
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: HCH isomer 1

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]
217 [M-HCl <sub>2</sub> ] <sup>+</sup>

Name: beta BHC

Class: HCH-related

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1131.7, 1.274

Ecotype: coastal

Quantitative Ion m/z: 219

Elemental Formula: C<sub>6</sub>H<sub>6</sub>Cl<sub>6</sub>

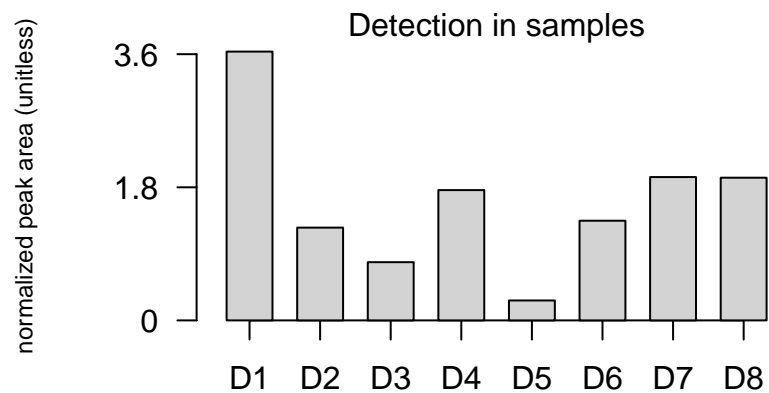
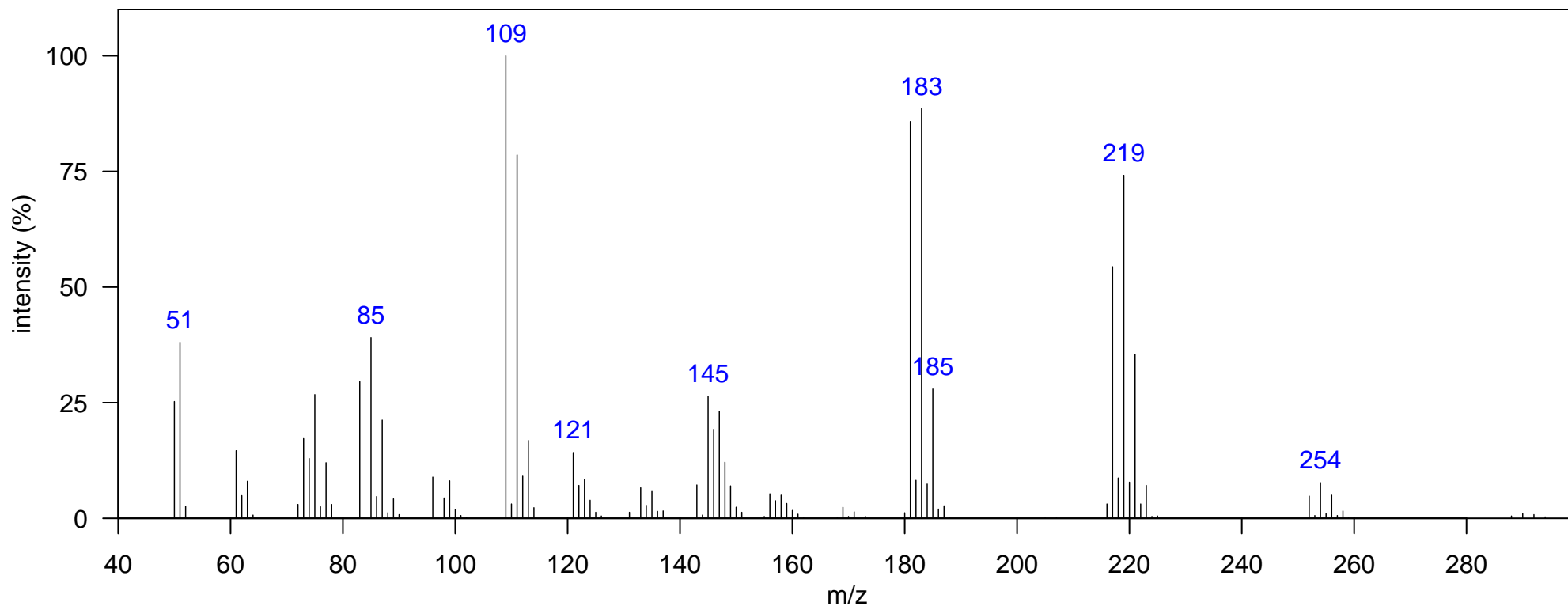
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: HCH isomer 2

Source: anthropogenic

Comment:

Identification: Authentic MS RT



m/z [Fragment]
252 [M-HCl] <sup>+</sup>



Name: ethenyl benzene 3Cl

Class: Chlorinated styrene

Sample: SoCal dolphin blubber D4, JEH0504

1D RT, 2D RT (s): 897.33, 1.063

Elemental Formula: C<sub>8</sub>H<sub>5</sub>Cl<sub>3</sub>

Ecotype: offshore

Quantitative Ion m/z: 206

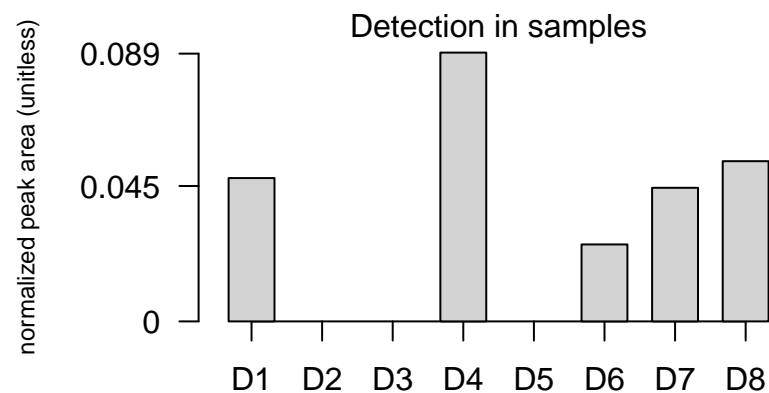
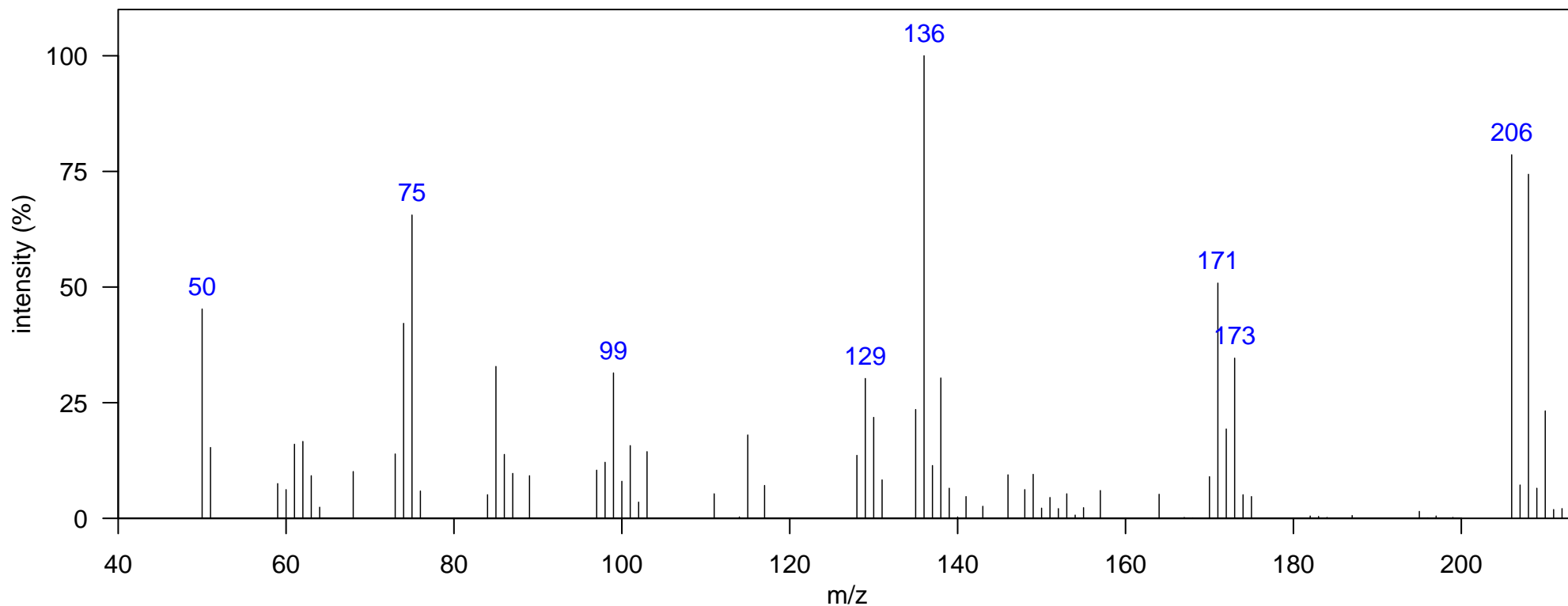
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: trichlorostyrene (PCS)

Identification: Reference Database MS

Comment:



m/z [Fragment]
136 [M-Cl <sub>2</sub> ] <sup>+</sup>
171 [M-Cl] <sup>+</sup>
206 M <sup>+</sup>

Name: polychlorinated styrene 7Cl

Class: Chlorinated styrene

Sample: SoCal dolphin blubber D2, DSJ2195

1D RT, 2D RT (s): 1187.66, 1.155

Elemental Formula: C<sub>8</sub>HCl<sub>7</sub>

Ecotype: offshore

Quantitative Ion m/z: 344

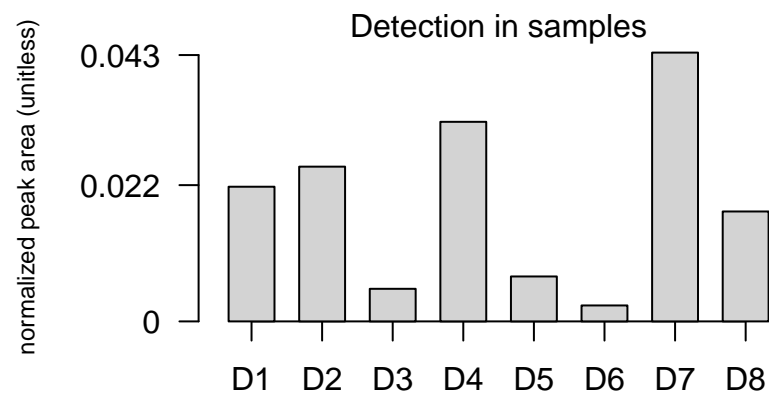
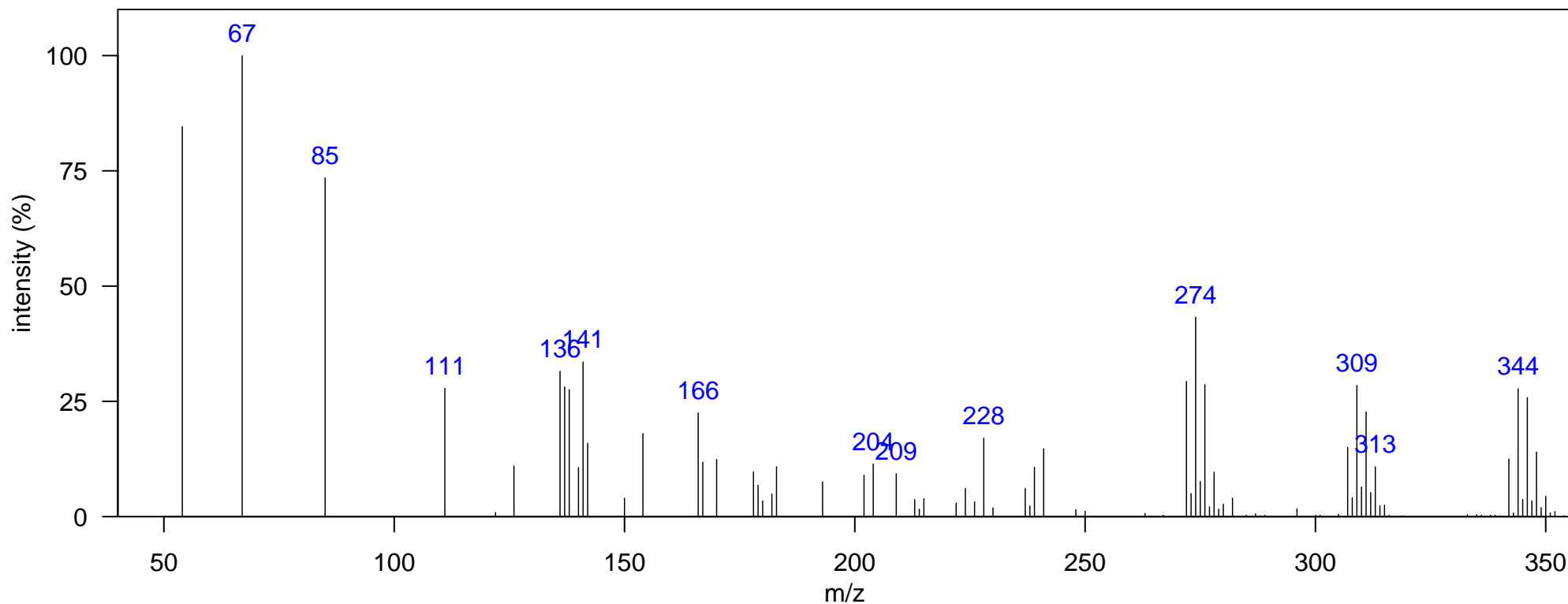
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: heptachlorostyrene (PCS)

Identification: Authentic MS

Comment:



m/z [Fragment]
307 [M-Cl] <sup>+</sup>
342 M <sup>+</sup>

Name: tris(2-chloroethyl)phosphate

Class: Chlorophosphate

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1121.2, 1.307

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

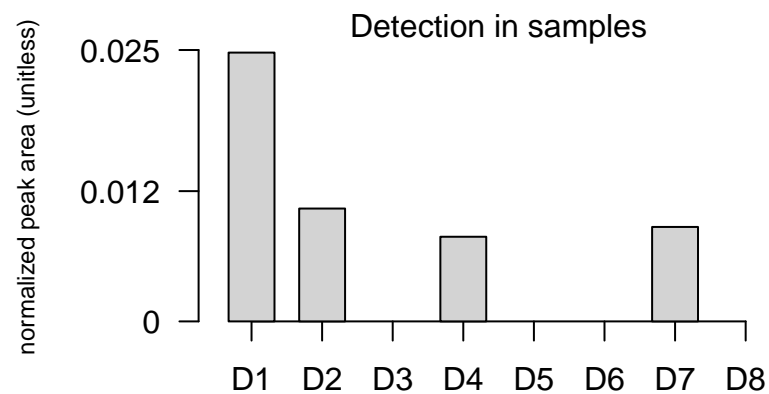
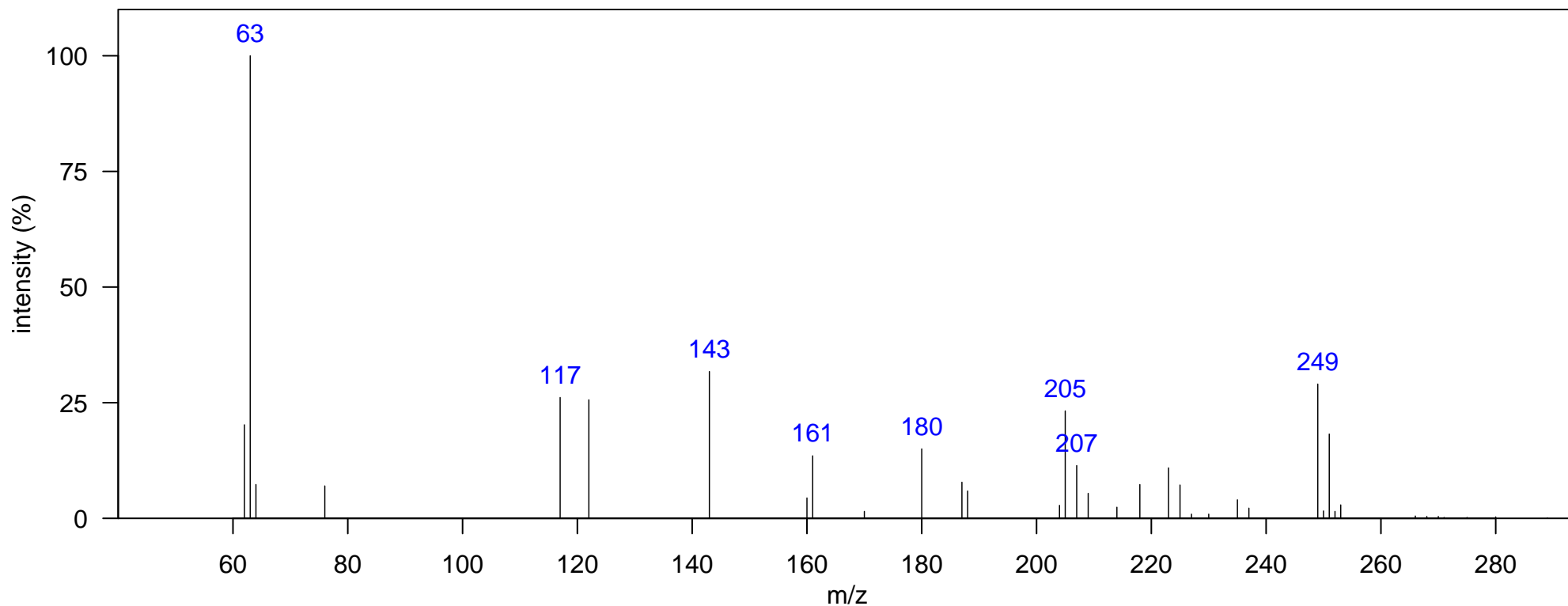
Quantitative Ion m/z: 249

Atlantic Lib:

Elemental Formula: C<sub>6</sub>H<sub>12</sub>Cl<sub>3</sub>O<sub>4</sub>P

Source: anthropogenic

Identification: Authentic MS RT



m/z [Fragment]
205 [M-CH <sub>2</sub> CH <sub>2</sub> Cl] <sup>+</sup>
235 [M-CH <sub>2</sub> Cl] <sup>+</sup>
249 [M-Cl] <sup>+</sup>

Name: pyrrolidinecarbonyl chloride

Class: Pyrrolidinecarbonyl chloride

Sample: SoCal dolphin blubber D8, KXD0003 1D RT, 2D RT (s): 694.45, 1.115

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

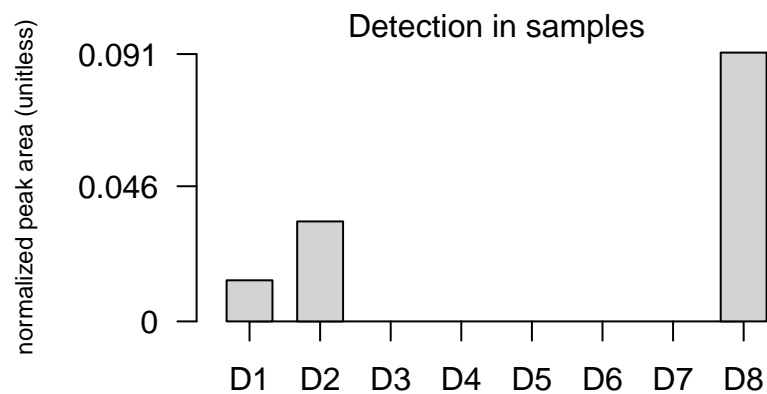
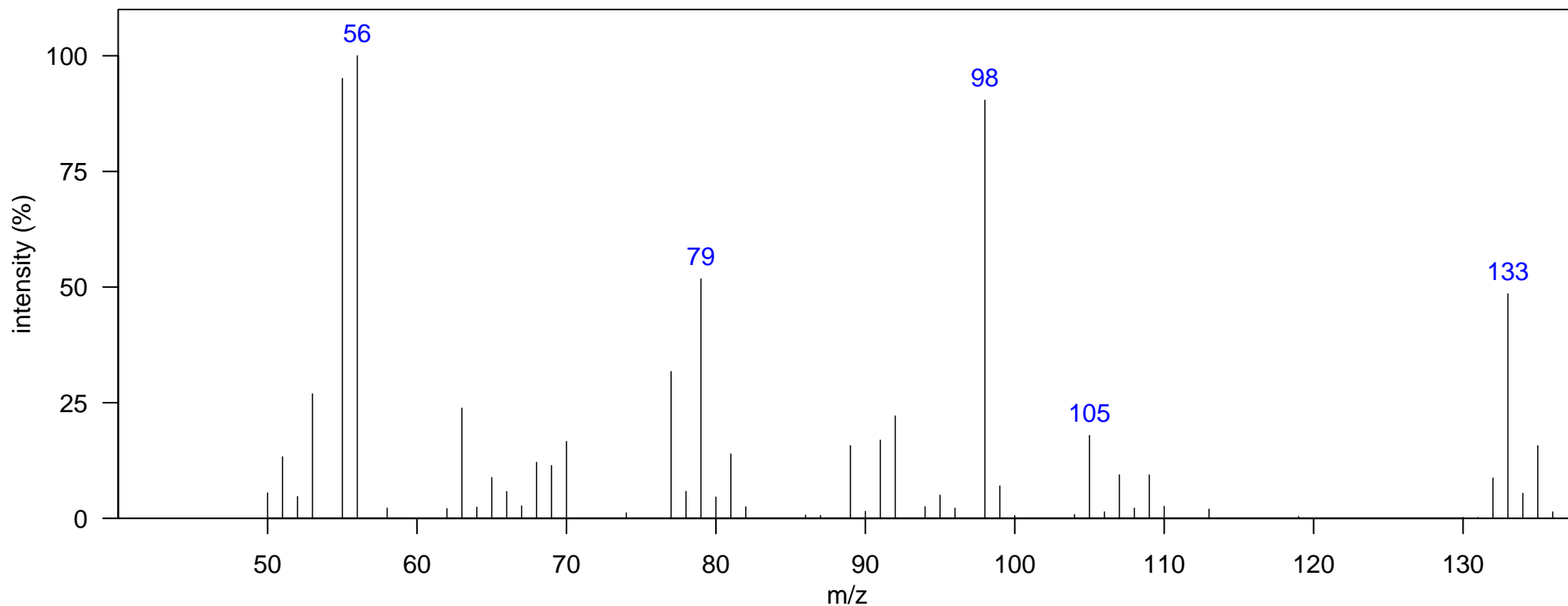
Quantitative Ion m/z: 133

Atlantic Lib:

Elemental Formula: C<sub>5</sub>H<sub>8</sub>ClNO

Source: anthropogenic

Identification: Reference Database MS



m/z [Fragment]
98 [M-Cl] <sup>+</sup>
133 M <sup>+</sup>

Name: 4,4'-dichlorobenzophenone

Class: Dichlorobenzophenone

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1268.12, 1.287

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

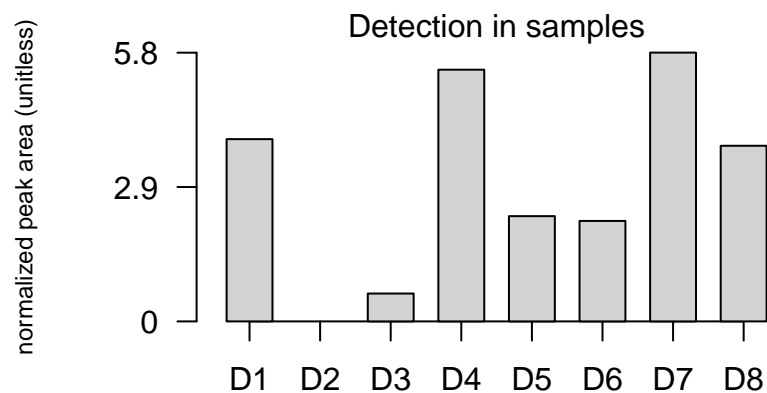
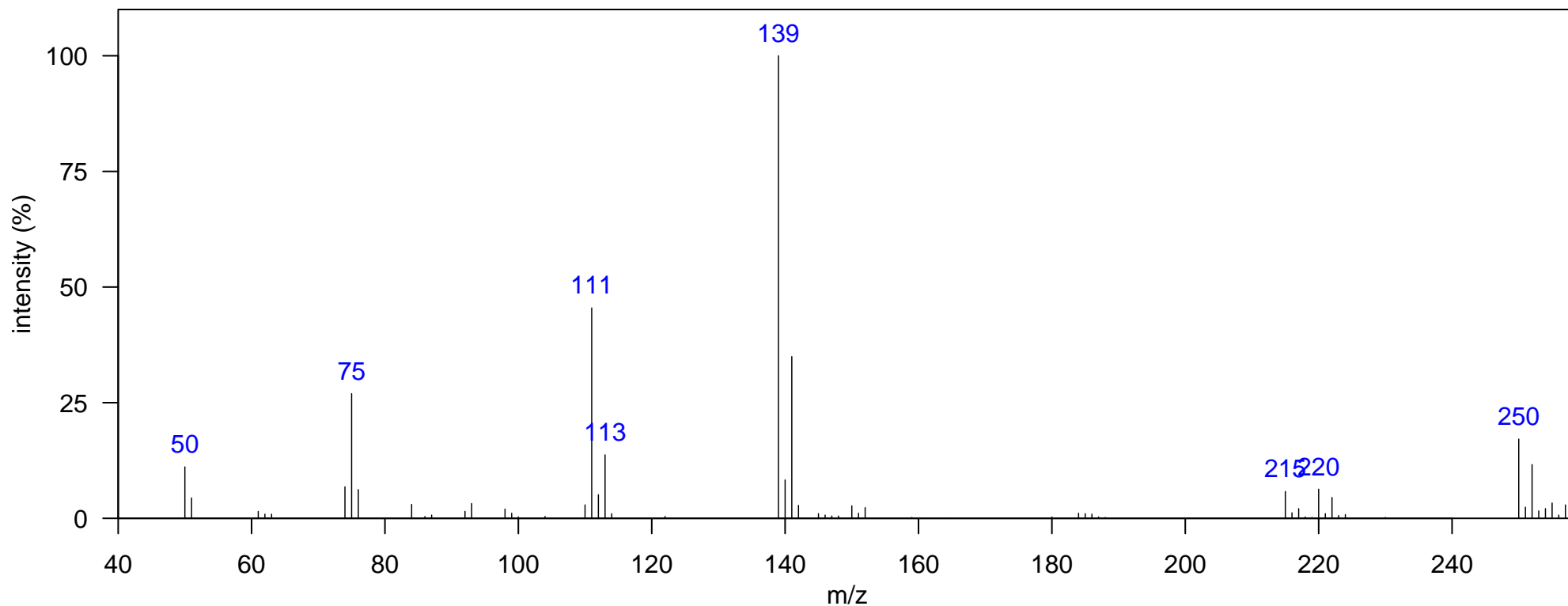
Quantitative Ion m/z: 139

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>8</sub>Cl<sub>2</sub>O

Source: anthropogenic

Identification: Authentic MS RT



m/z [Fragment]
111 [M-C <sub>6</sub> H <sub>4</sub> Cl-CO] <sup>+</sup>
139 [M-C <sub>6</sub> H <sub>4</sub> Cl] <sup>+</sup>
250 M <sup>+</sup>

Name: di-MeOPBB-80

Class: MeO-PBB

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1586.44, 1.729

Ecotype: coastal

Quantitative Ion m/z: 530

Elemental Formula: C<sub>14</sub>H<sub>10</sub>Br<sub>4</sub>O<sub>2</sub>

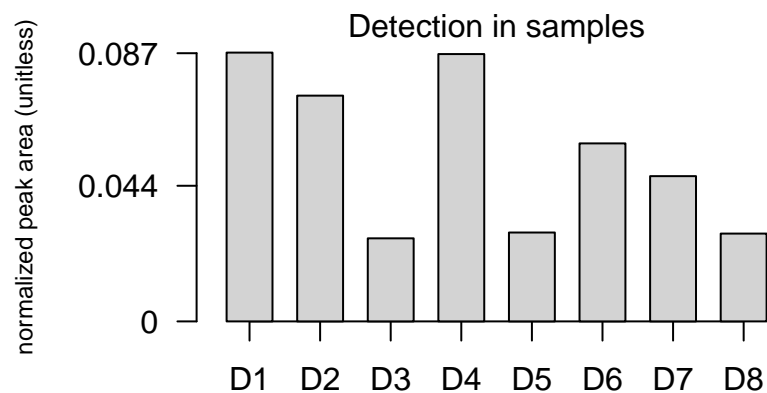
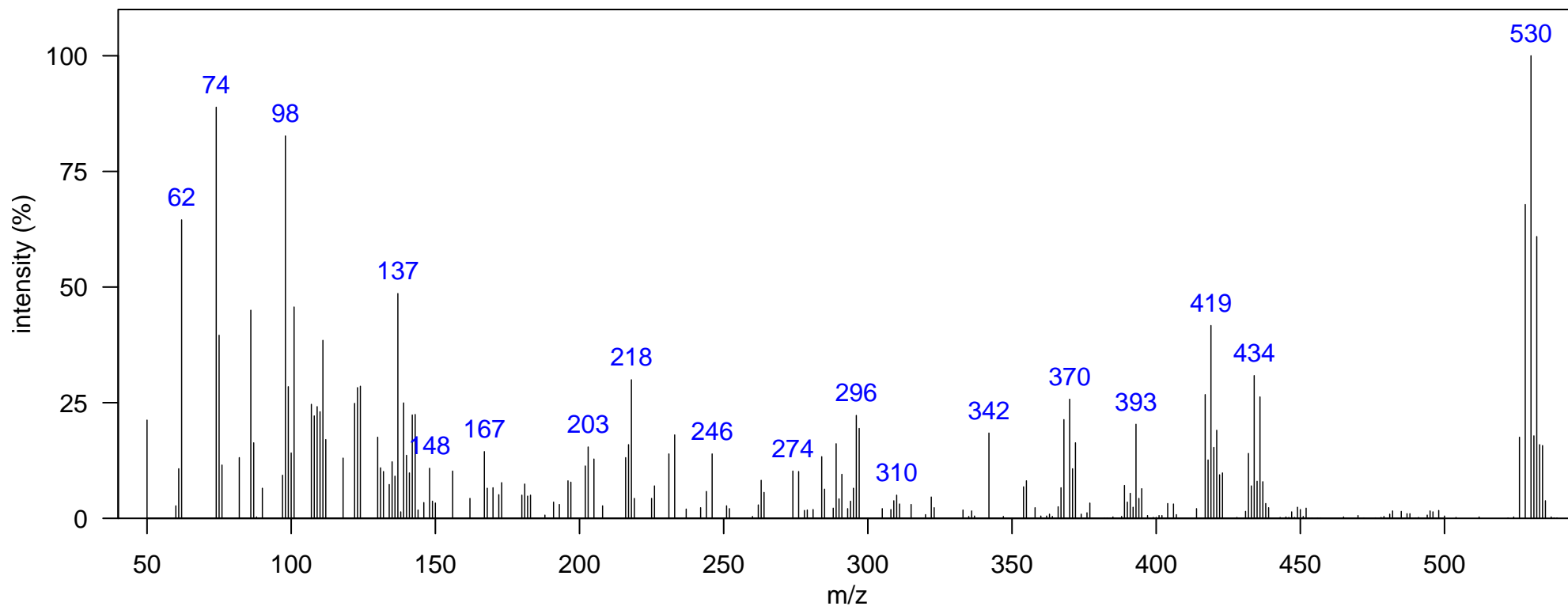
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: 2MeO-BB-80

Source: natural

Comment: 2,2'-dimethoxy-3,3',5,5'-tetrabromobiphenyl

Identification: Authentic MS RT



m/z [Fragment]

417 [M-CH<sub>3</sub>-CH<sub>3</sub>-Br]<sup>+</sup>

432 [M-CH<sub>3</sub>-Br]<sup>+</sup>

526 M<sup>+</sup>

Name: MeOBCDE Br3Cl

Class: MeO-B/CDE

Sample: SoCal dolphin blubber D2, DSJ2195

1D RT, 2D RT (s): 1554.95, 1.657

Elemental Formula: C<sub>13</sub>H<sub>8</sub>Br<sub>3</sub>ClO<sub>2</sub>

Ecotype: offshore

Quantitative Ion m/z: 472

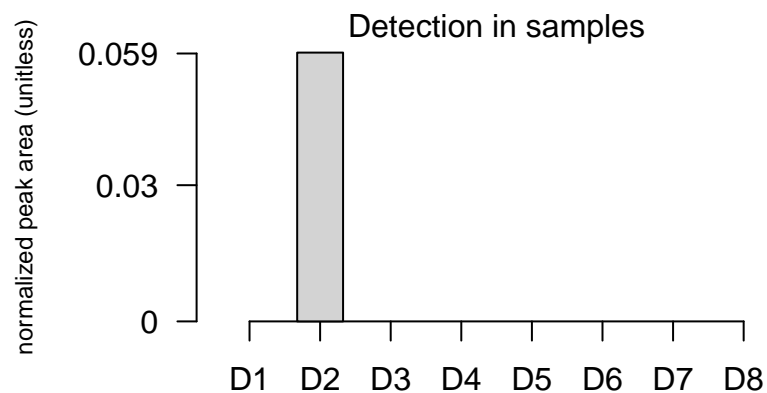
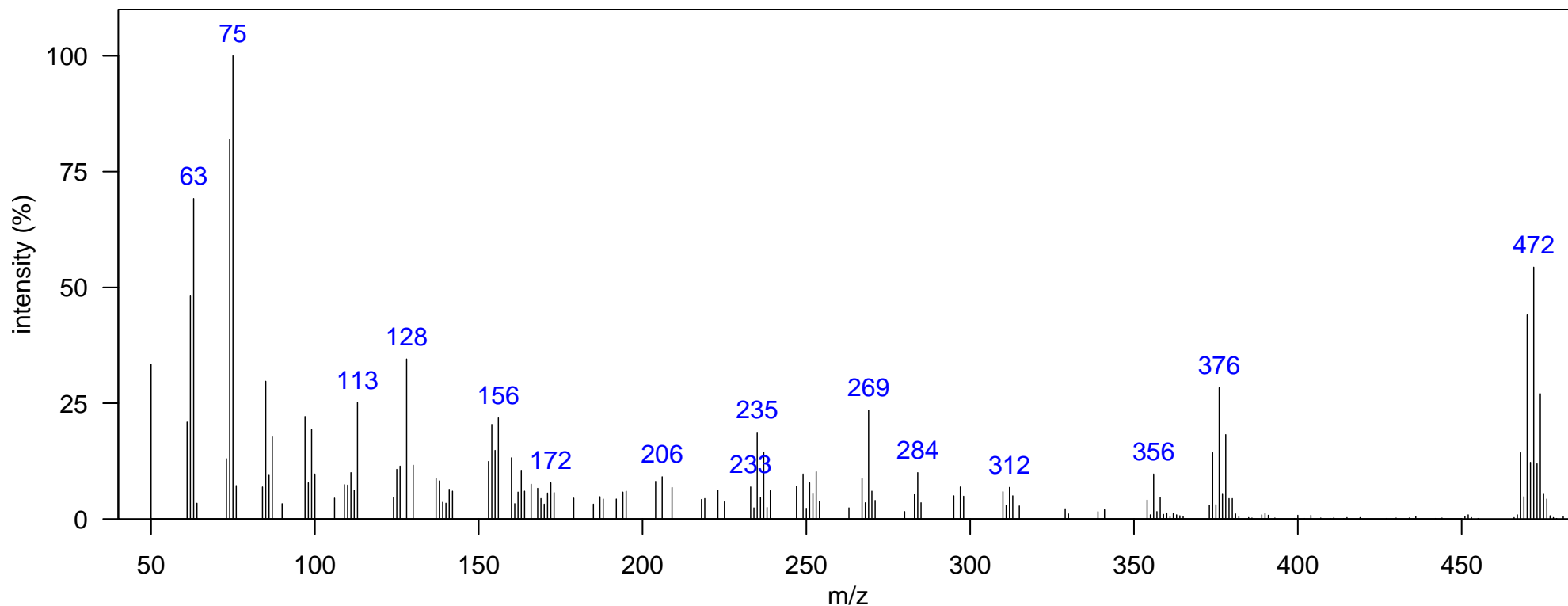
Source: natural

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: methoxy diphenyl ether Br<sub>3</sub>Cl

Identification: Manual-Congener Group

Comment:



m/z [Fragment]
354 [M-BrCl]+
374 [M-Br-CH3]+
468 M+

Name: MeOBDE 3Br

Class: MeO-BDE

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1460.51, 1.564

Ecotype: coastal

Quantitative Ion m/z: 438

Elemental Formula: C<sub>13</sub>H<sub>9</sub>Br<sub>3</sub>O<sub>2</sub>

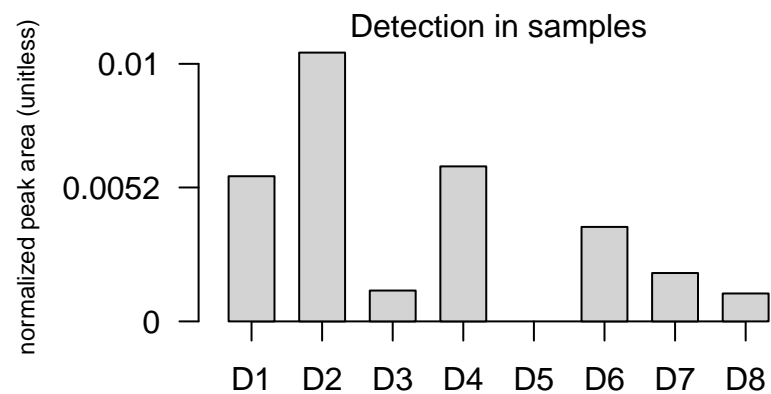
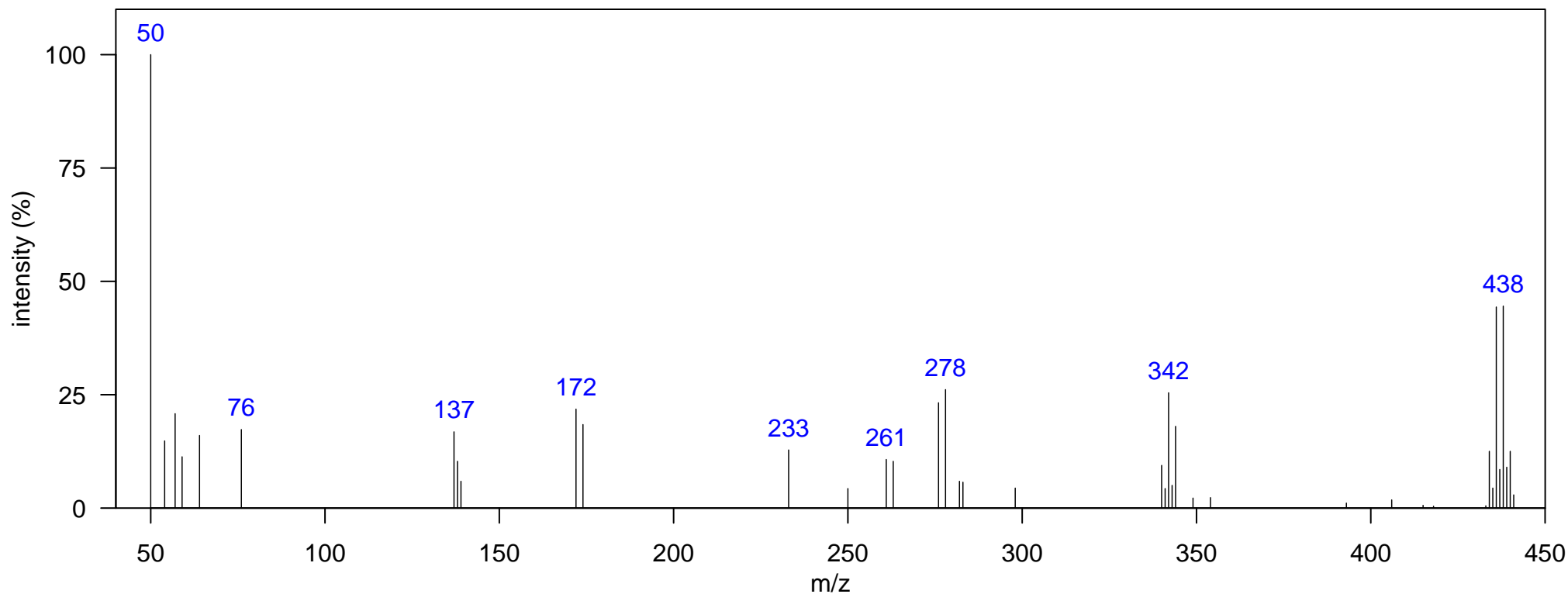
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: MeO-BDE 3Br

Source: natural

Comment:

Identification: Authentic MS



m/z [Fragment]

276 [M-Br<sub>2</sub>]<sup>+</sup>

340 [M-Br-CH<sub>3</sub>]<sup>+</sup>

434 M<sup>+</sup>



Name: MeOBDE 4Br

Class: MeO-BDE

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1565.45, 1.723

Ecotype: offshore

Quantitative Ion m/z: 516

Instrument: GCxGC-TOF, EI, 70 eV

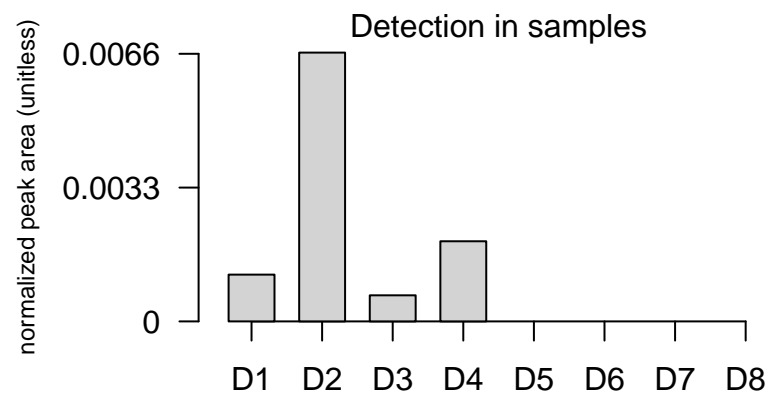
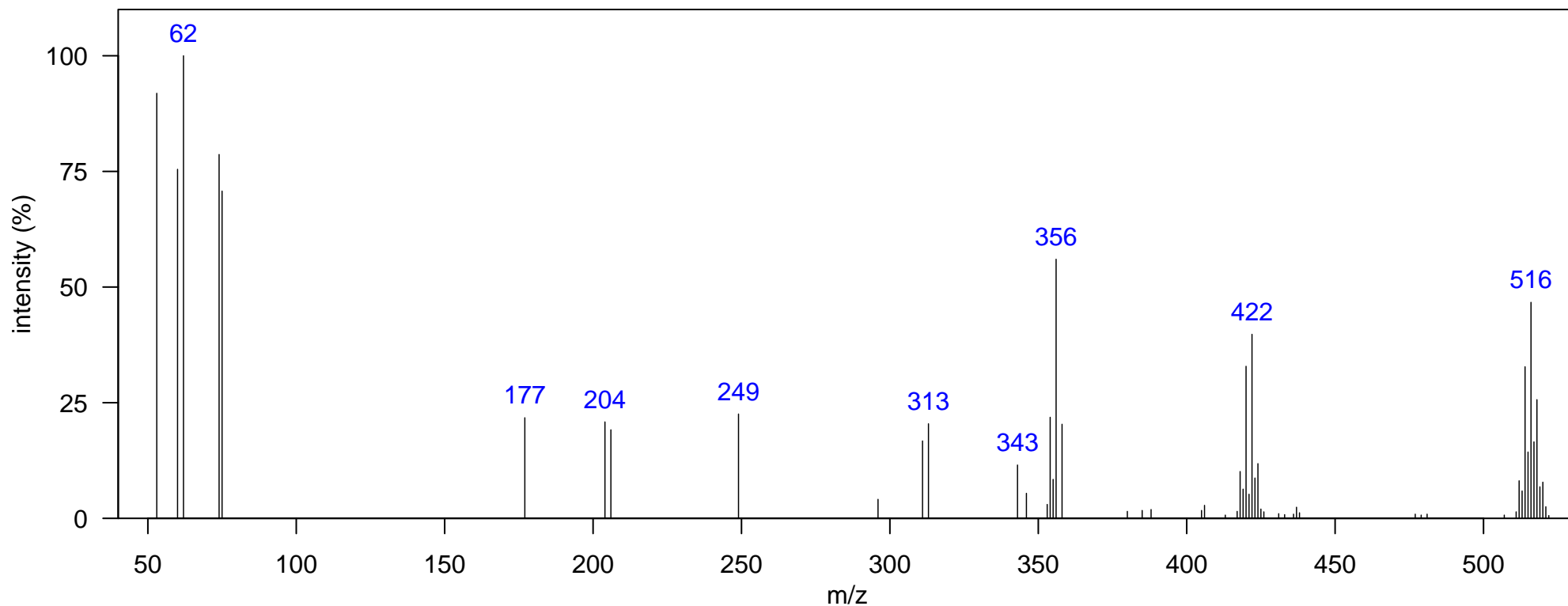
Atlantic Lib: MeO-BDE 4Br

Elemental Formula: C<sub>13</sub>H<sub>8</sub>Br<sub>4</sub>O<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS



m/z [Fragment]
418 [M-Br-CH <sub>3</sub> ] <sup>+</sup>
512 M <sup>+</sup>

Name: 2'-MeOBDE-68

Class: MeO-BDE

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1579.44, 1.736

Ecotype: coastal

Quantitative Ion m/z: 516

Elemental Formula: C<sub>13</sub>H<sub>8</sub>Br<sub>4</sub>O<sub>2</sub>

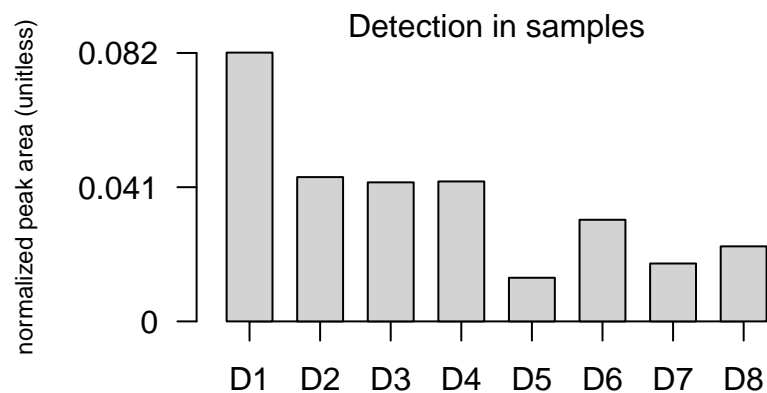
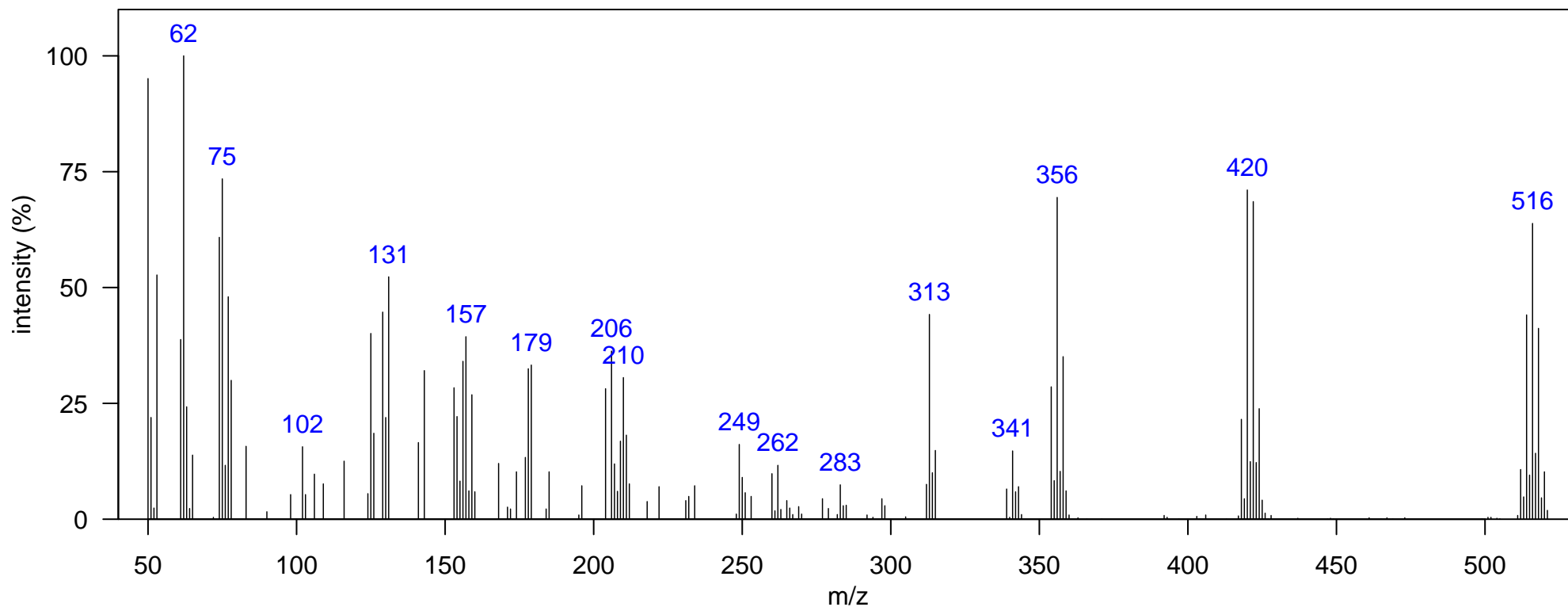
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: MeO-BDE 4Br

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]

354 [M-Br<sub>2</sub>]

418 [M-Br-CH<sub>3</sub>]<sup>+</sup>

512 M<sup>+</sup>

Name: 6-MeOBDE-47

Class: MeO-BDE

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1600.43, 1.921

Ecotype: coastal

Quantitative Ion m/z: 516

Elemental Formula: C<sub>13</sub>H<sub>8</sub>Br<sub>4</sub>O<sub>2</sub>

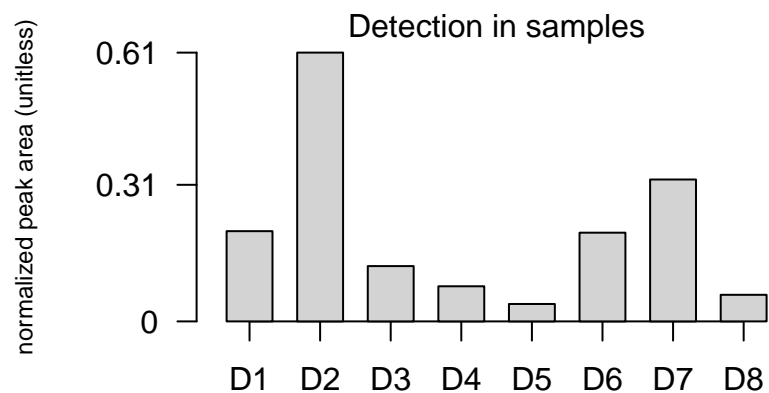
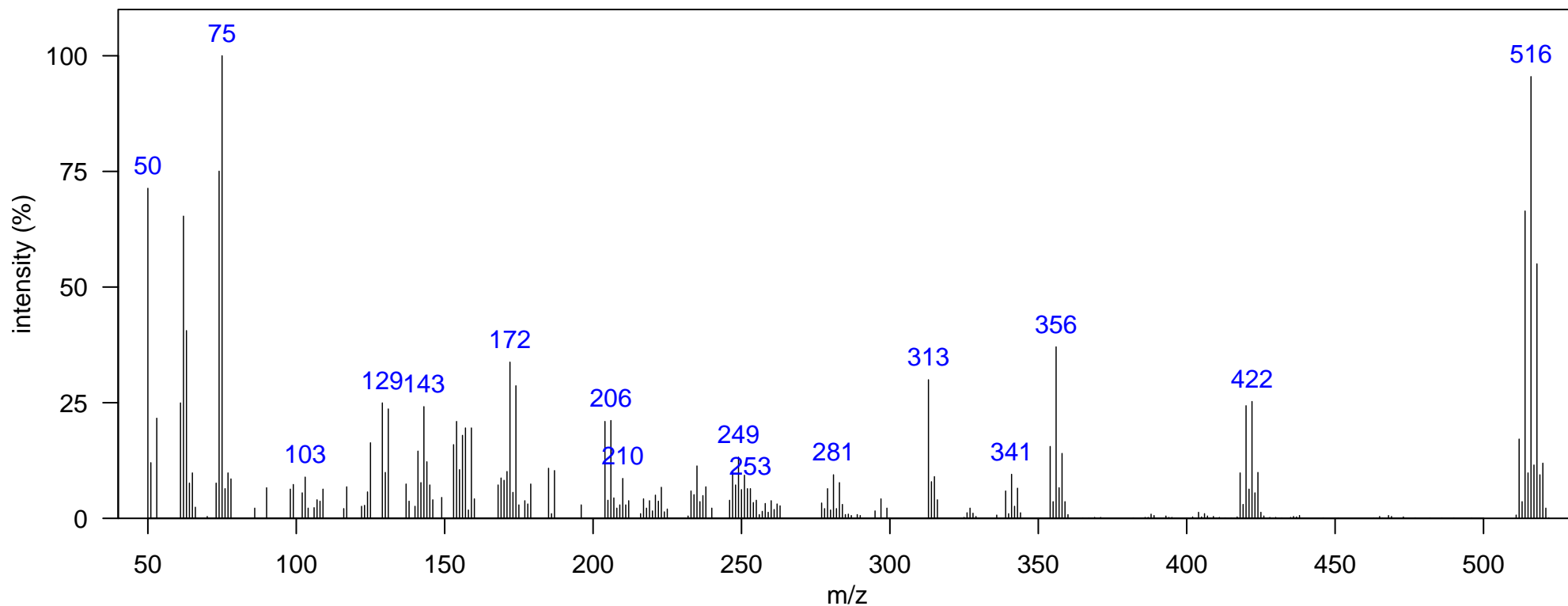
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: MeO-BDE 4Br

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
354 [M-Br <sub>2</sub> ]
418 [M-Br-CH <sub>3</sub> ] <sup>+</sup>
512 M <sup>+</sup>

Name: 6'-MeOBDE-99

Class: MeO-BDE

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1729.85, 2.165

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

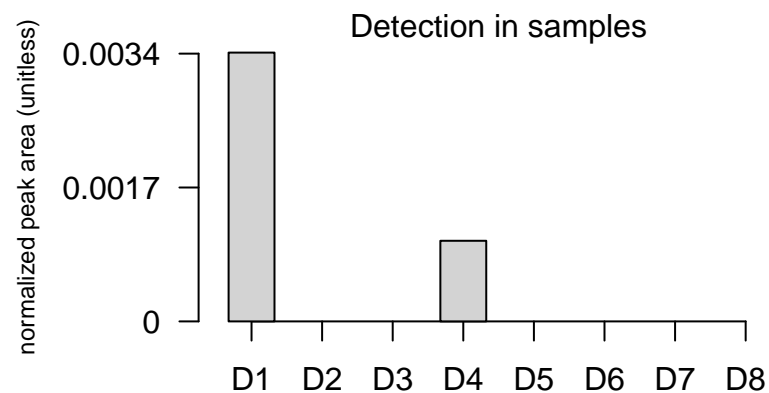
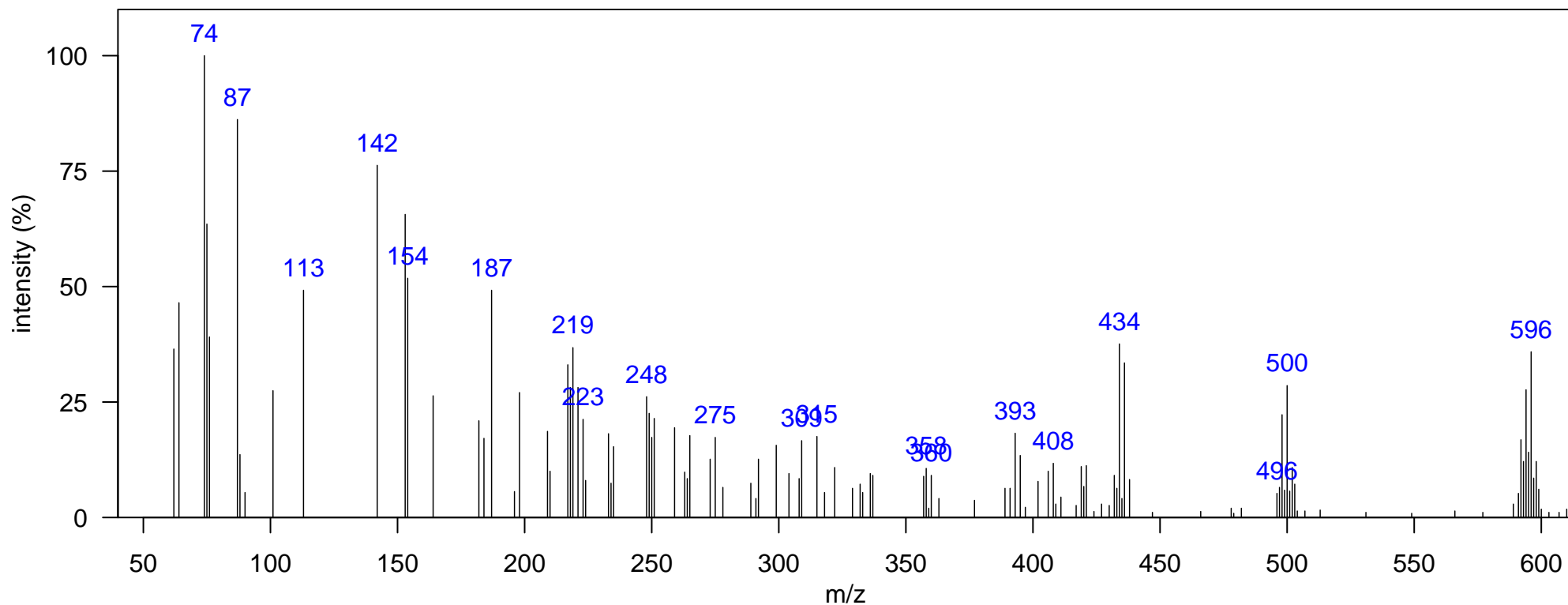
Quantitative Ion m/z: 596

Atlantic Lib: MeO-BDE 5Br

Elemental Formula: C<sub>13</sub>H<sub>7</sub>Br<sub>5</sub>O<sub>2</sub>

Source: natural

Identification: Authentic MS RT



m/z [Fragment]
432 [M-Br <sub>2</sub> ] <sup>+</sup>
496 [M-Br-CH <sub>3</sub> ] <sup>+</sup>
590 M <sup>+</sup>

Name: DMBP 6Cl

Class: DMBP

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1415.03, 1.373

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment: DDD coelution

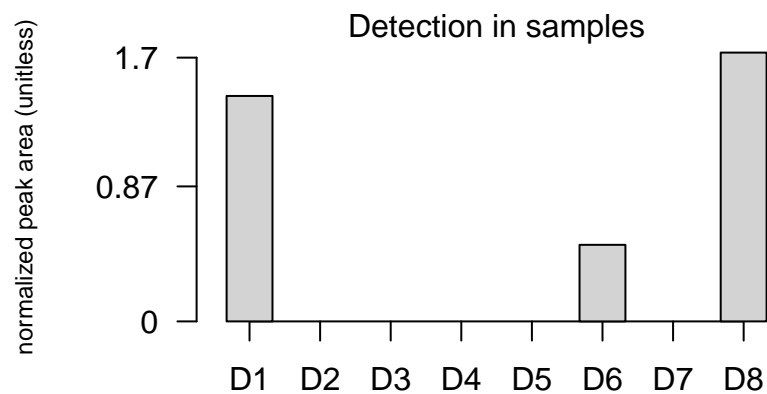
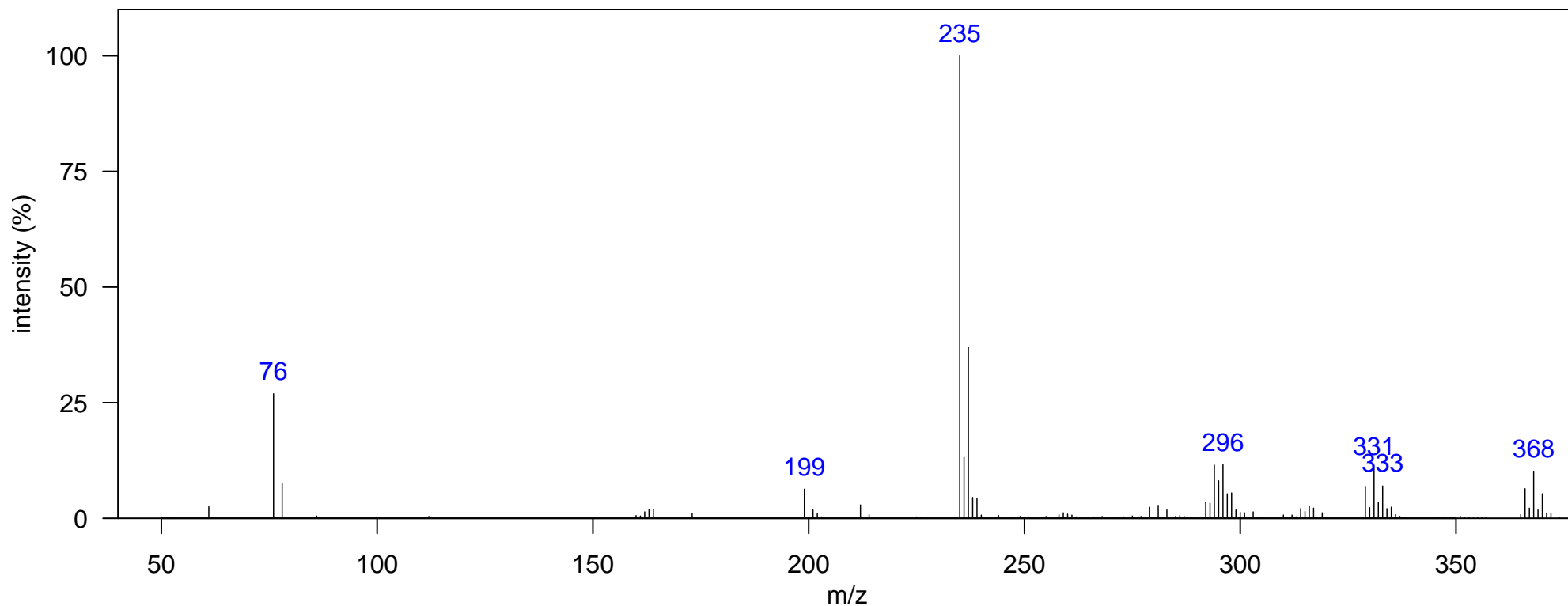
Quantitative Ion m/z: 366

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>6</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS RT



m/z [Fragment]
294 [M-Cl <sub>2</sub> ] <sup>+</sup>
329 [M-Cl] <sup>+</sup>
364 M <sup>+</sup>

Name: DMBP Br2Cl2 1

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1275.11, 1.247

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

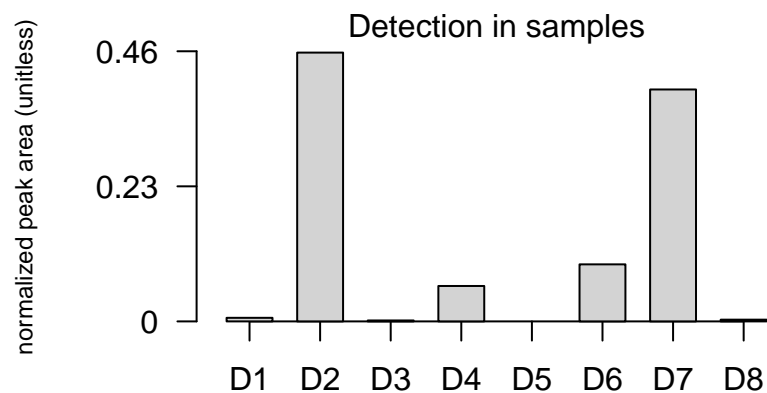
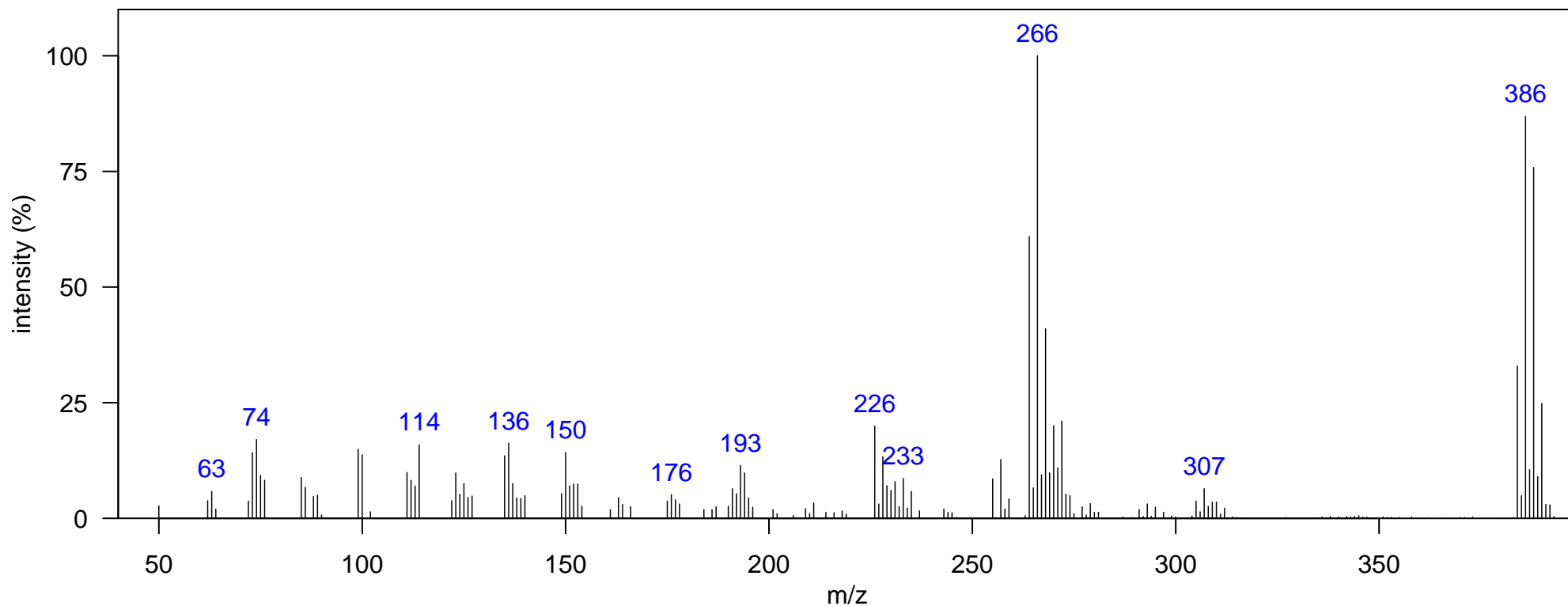
Quantitative Ion m/z: 388

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>2</sub>Br<sub>2</sub>N<sub>2</sub>

Source: natural

Identification: Manual-Congener Group



m/z [Fragment]
226 [M-Br <sub>2</sub> ] <sup>+</sup>
264 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
384 M <sup>+</sup>

Name: DMBP Br<sub>2</sub>Cl<sub>3</sub>

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1390.55, 1.353

Ecotype: offshore

Quantitative Ion m/z: 422

Instrument: GCxGC-TOF, EI, 70 eV

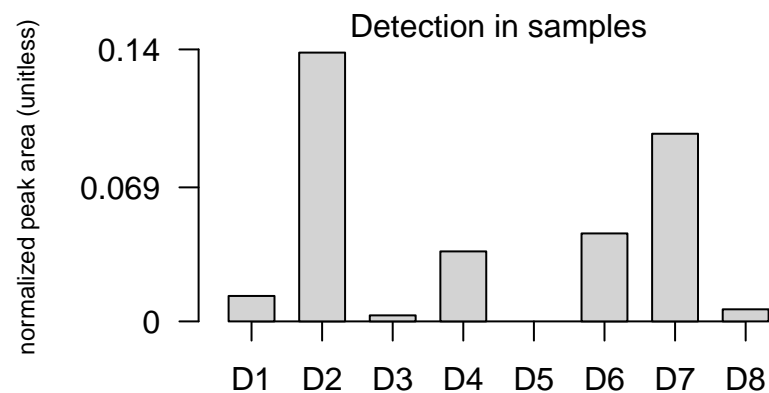
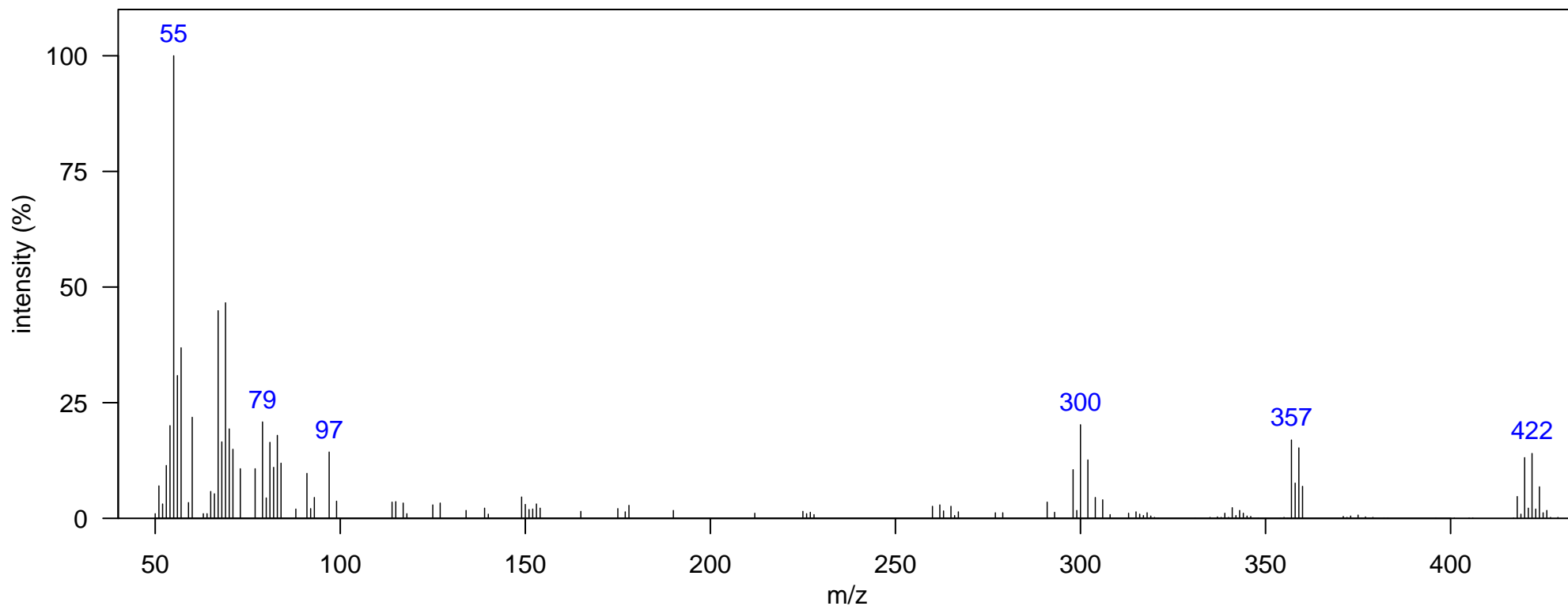
Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Cl<sub>3</sub>Br<sub>2</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
298 [M-BrCNCH3]+
418 M+

Name: DMBP Br2Cl4

Class: DMBP

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1491.99, 1.459

Ecotype: offshore

Quantitative Ion m/z: 458

Instrument: GCxGC-TOF, EI, 70 eV

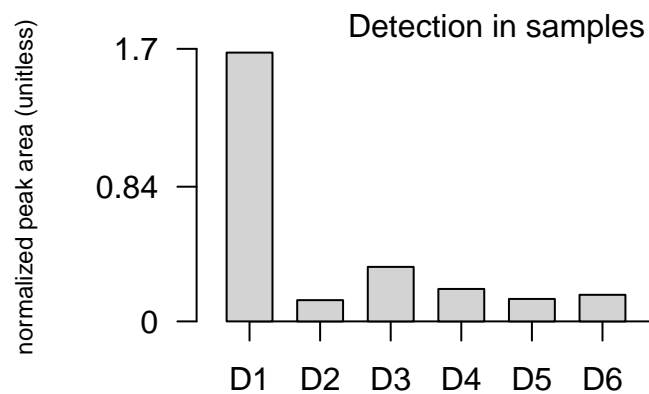
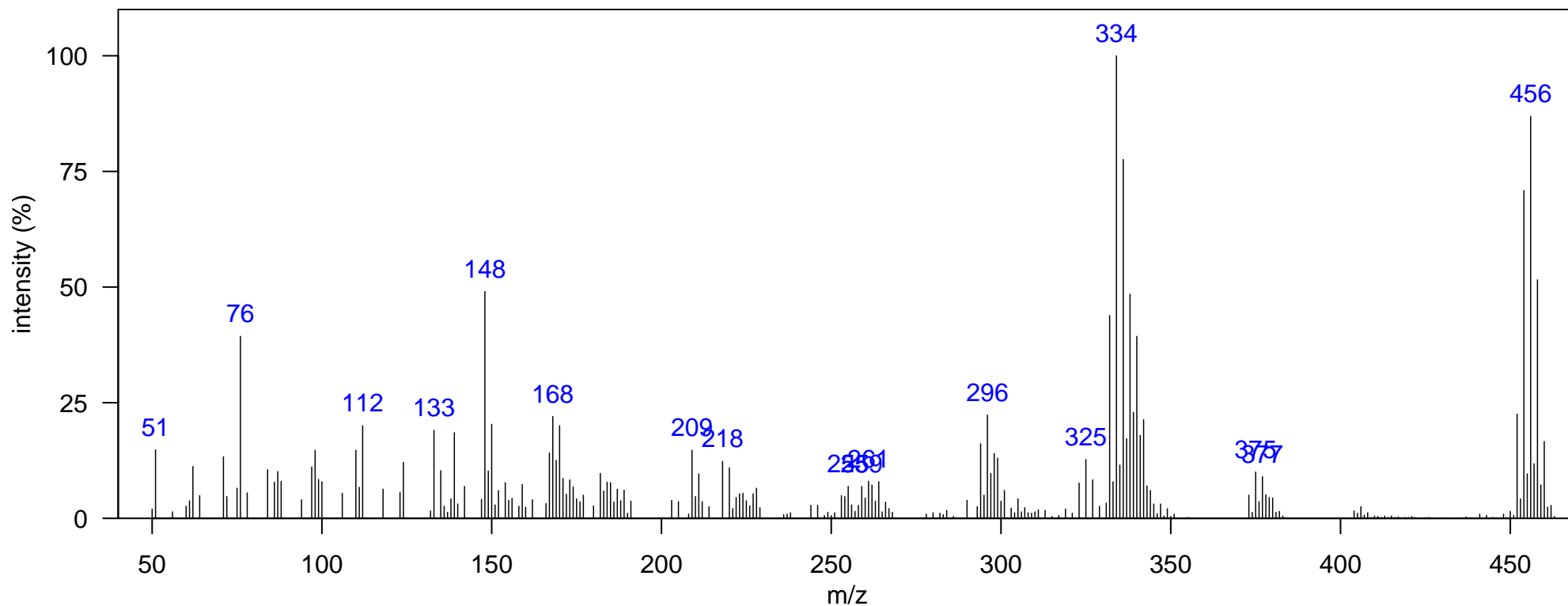
Atlantic Lib: DMBP Br2Cl4

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>4</sub>Br<sub>2</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
332 [M-BrCNCH3]+
452 M+



Name: DMBP Br3Cl2 1

Class: DMBP

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1436.02, 1.426

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

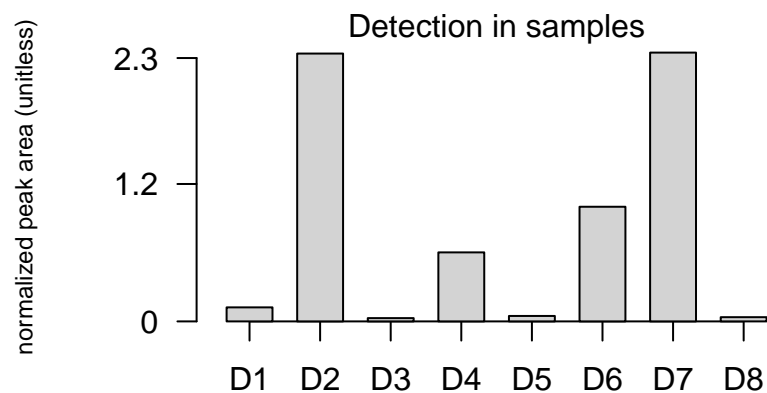
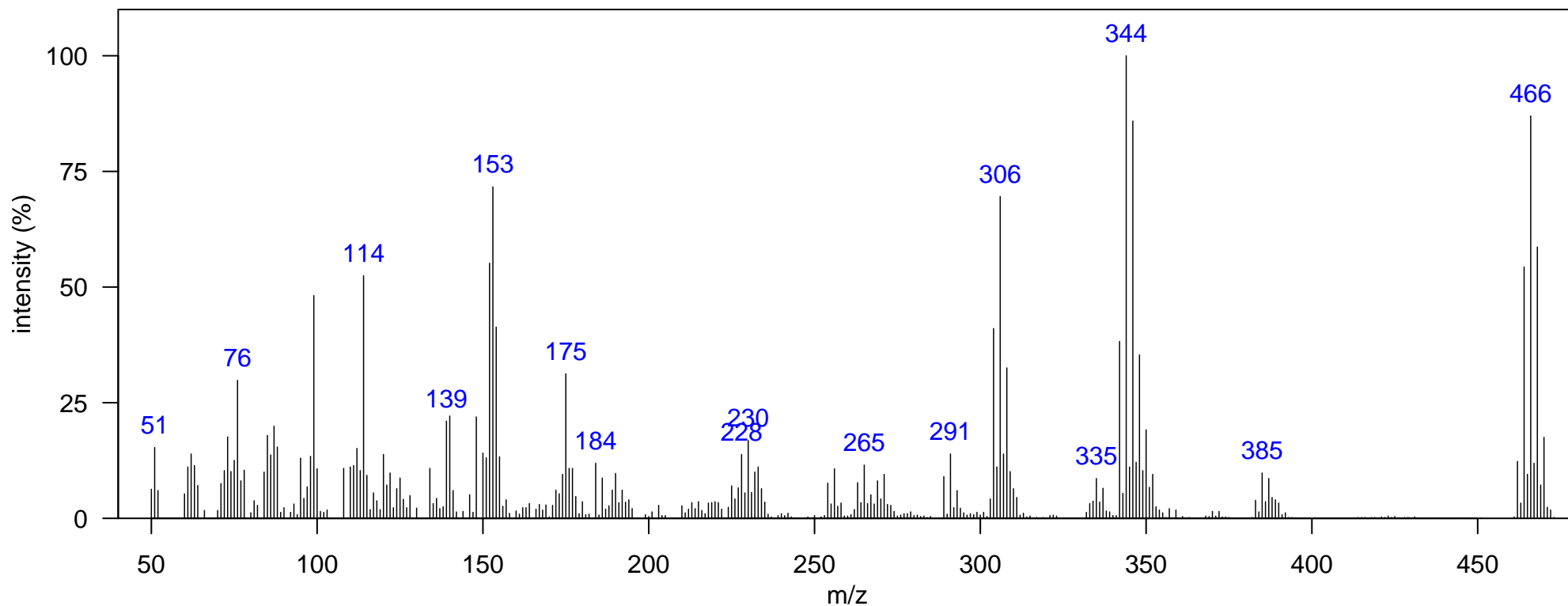
Quantitative Ion m/z: 466

Atlantic Lib: DMBP Br3Cl2

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>3</sub>Cl<sub>2</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS RT



m/z [Fragment]
304 [M-Br <sub>2</sub> ] <sup>+</sup>
342 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
462 M <sup>+</sup>

Name: DMBP Br3Cl2 2

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1561.95, 1.28

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

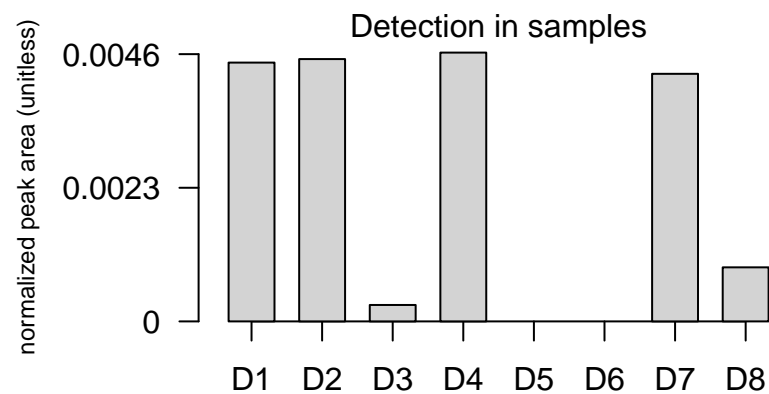
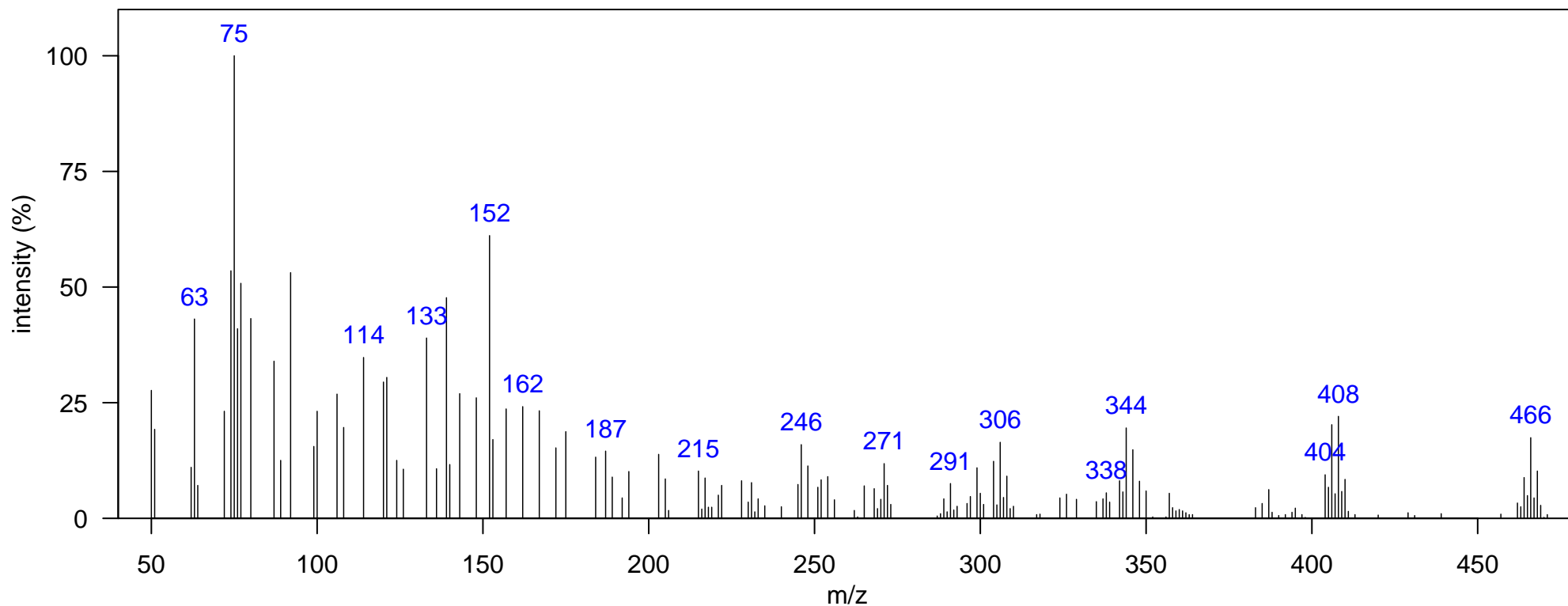
Quantitative Ion m/z: 466

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>3</sub>Cl<sub>2</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS



m/z [Fragment]
304 [M-Br <sub>2</sub> ] <sup>+</sup>
342 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
462 M <sup>+</sup>

Name: DMBP Br3Cl2 3

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1568.95, 1.28

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

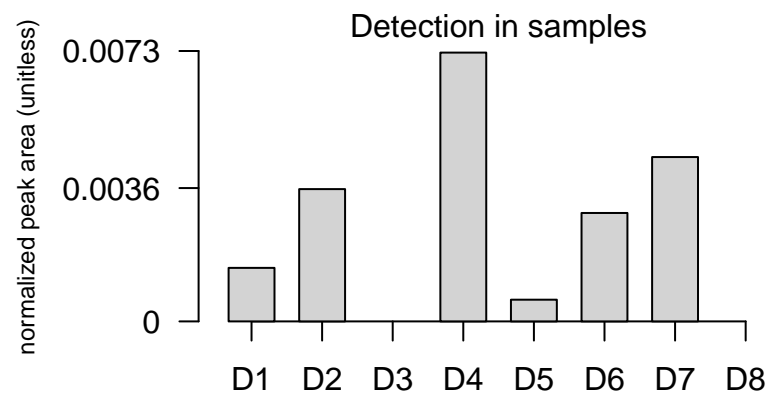
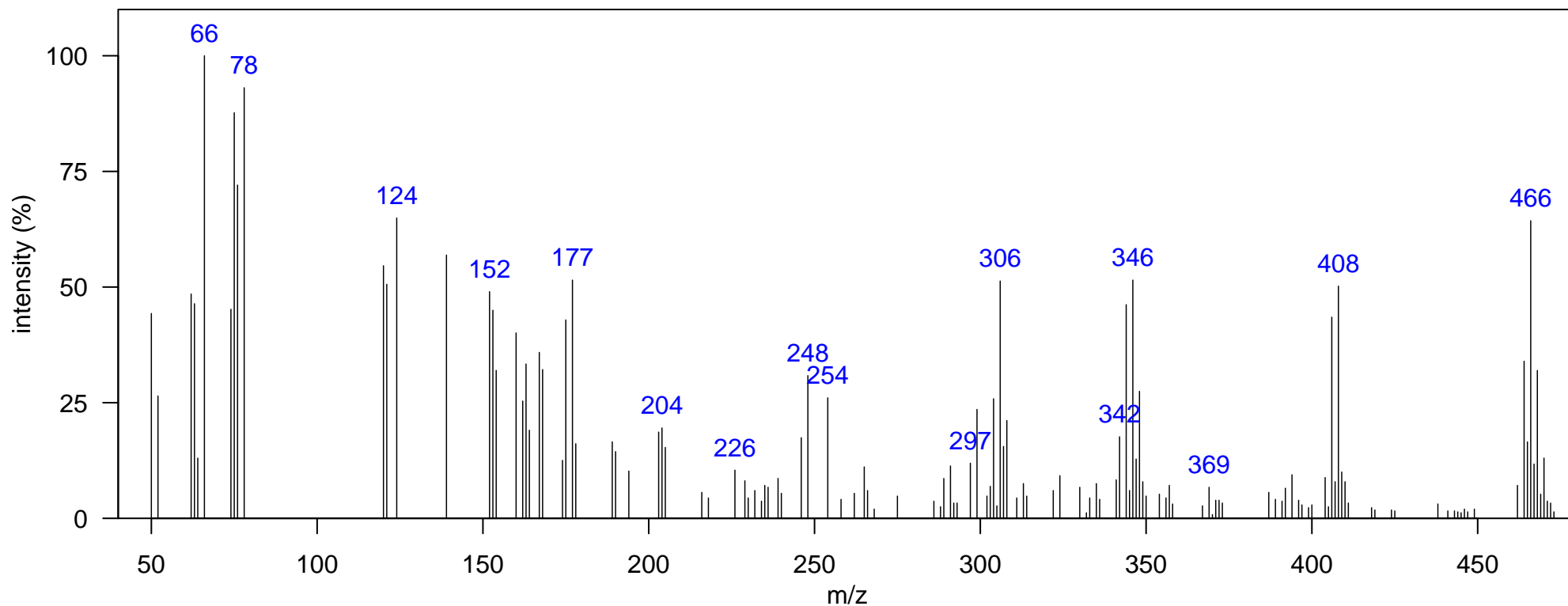
Quantitative Ion m/z: 466

Atlantic Lib: DMBP Br3Cl2

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>3</sub>Cl<sub>2</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS



m/z [Fragment]

304 [M-Br<sub>2</sub>]<sup>+</sup>

342 [M-BrCNCH<sub>3</sub>]<sup>+</sup>

462 M<sup>+</sup>

Name: DMBP Br3Cl2 4

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1593.43, 1.28

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

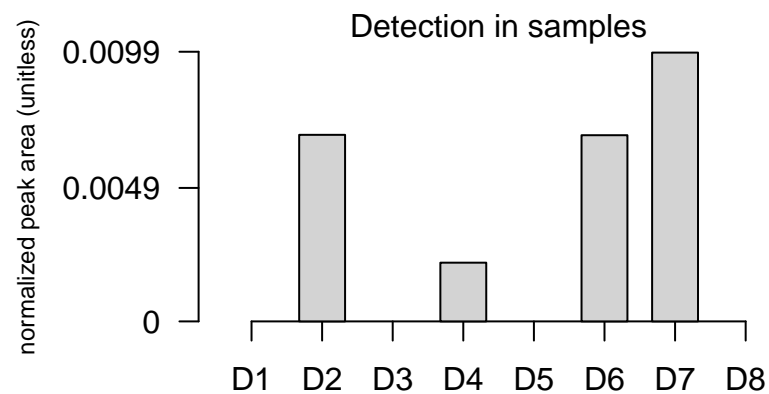
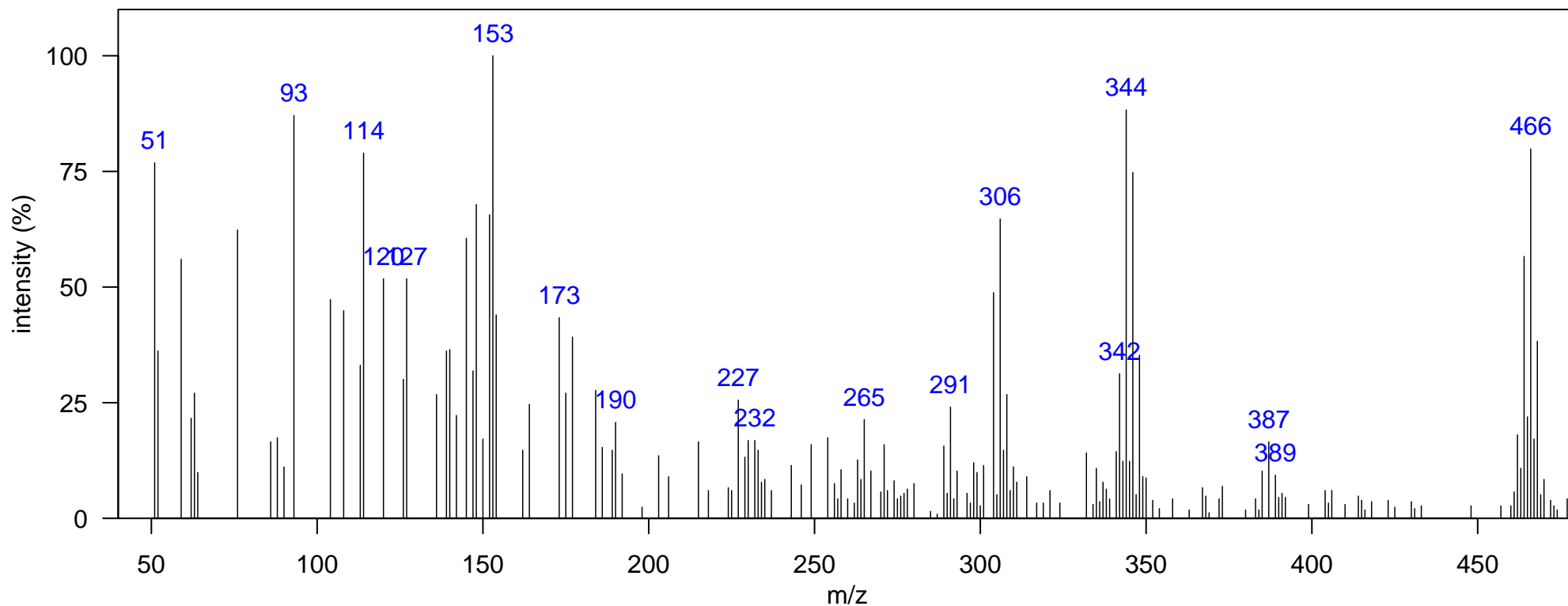
Quantitative Ion m/z: 466

Atlantic Lib: DMBP Br3Cl2

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>3</sub>Cl<sub>2</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS



m/z [Fragment]
304 [M-Br <sub>2</sub> ] <sup>+</sup>
342 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
462 M <sup>+</sup>

Name: DMBP Br3Cl3

Class: DMBP

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1537.46, 1.637

Ecotype: offshore

Quantitative Ion m/z: 500

Instrument: GCxGC-TOF, EI, 70 eV

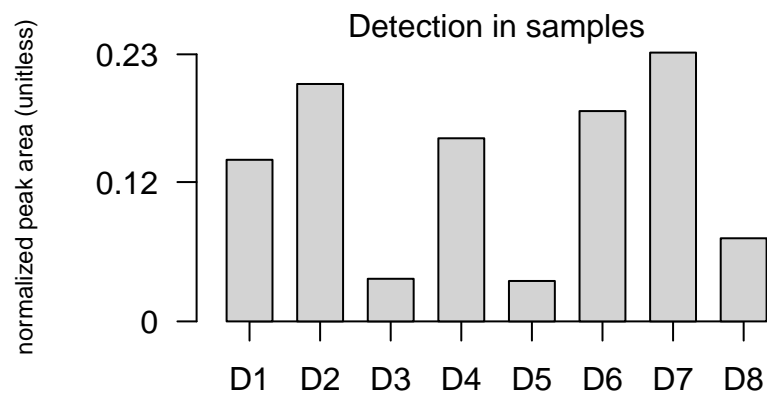
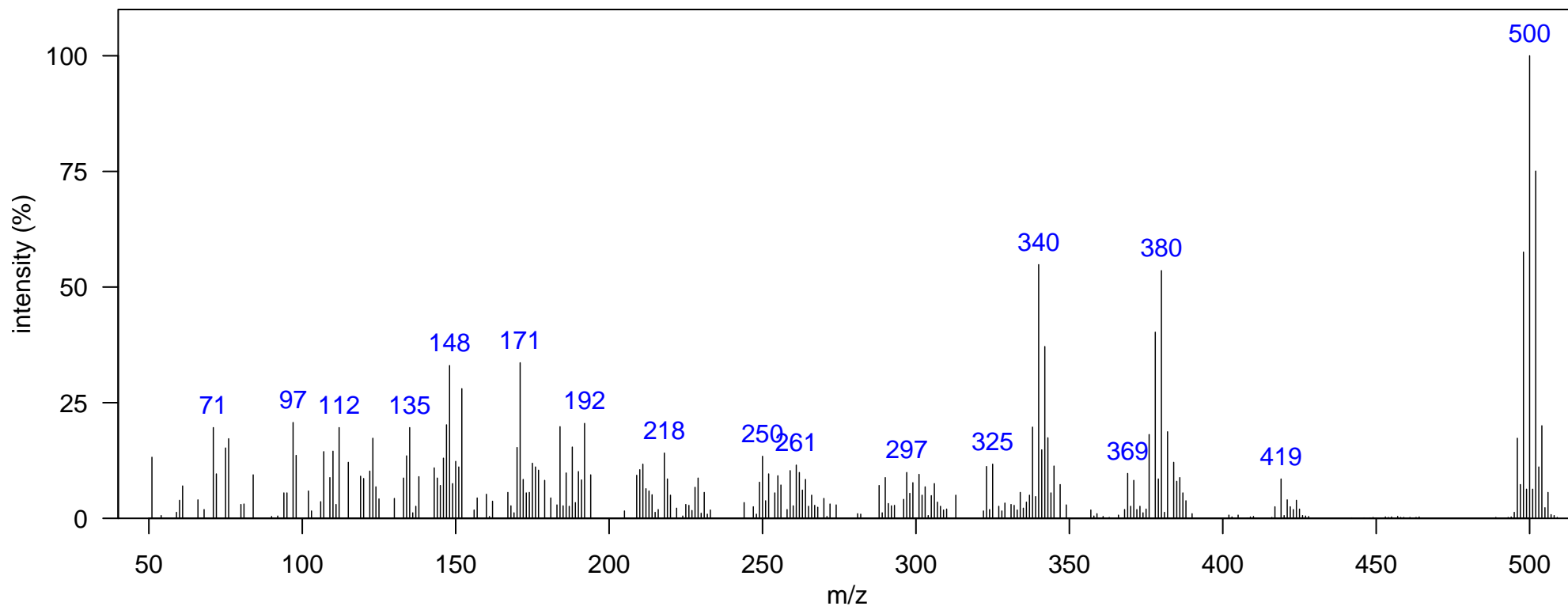
Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>3</sub>Br<sub>3</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
338 [M-Br <sub>2</sub> ] <sup>+</sup>
376 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
496 M <sup>+</sup>

Name: DMBP 4Br 1

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1387.05, 1.379

Ecotype: offshore

Quantitative Ion m/z: 476

Instrument: GCxGC-TOF, EI, 70 eV

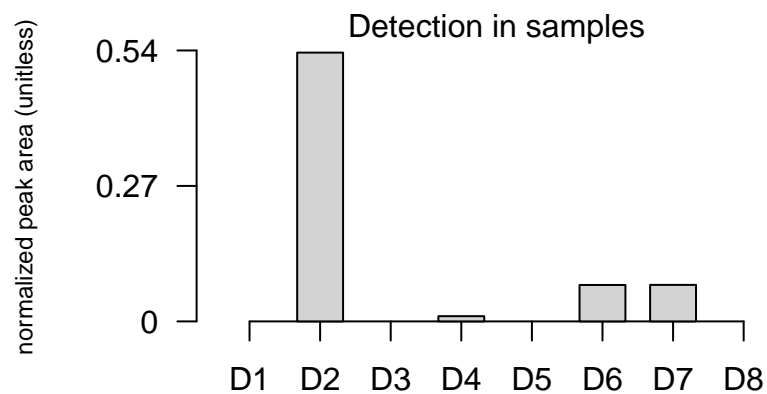
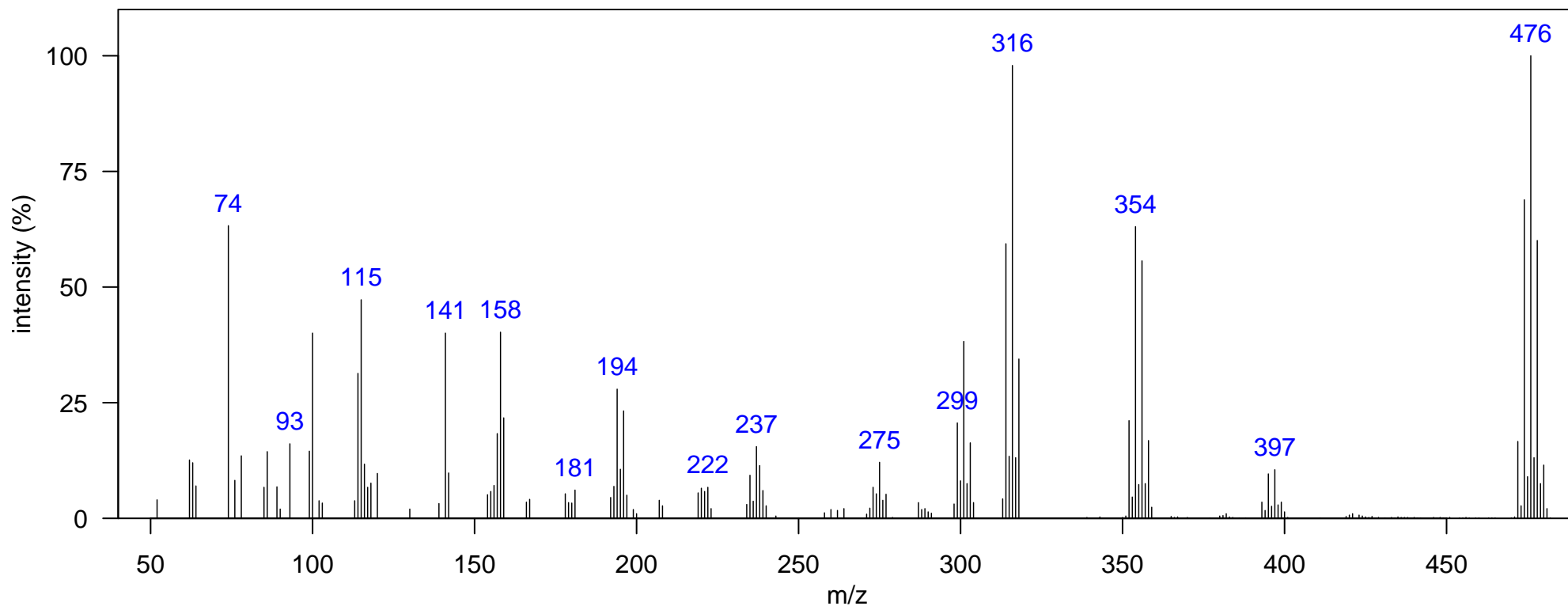
Atlantic Lib: DMBP 4Br

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Br<sub>4</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS



m/z [Fragment]

314 [M-Br<sub>2</sub>]<sup>+</sup>

352 [M-BrCNCH<sub>3</sub>]<sup>+</sup>

393 [M-Br]<sup>+</sup>

472 M<sup>+</sup>

Name: DMBP 4Br 2

Class: DMBP

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1436.02, 1.525

Ecotype: offshore

Quantitative Ion m/z: 476

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Br<sub>4</sub>N<sub>2</sub>

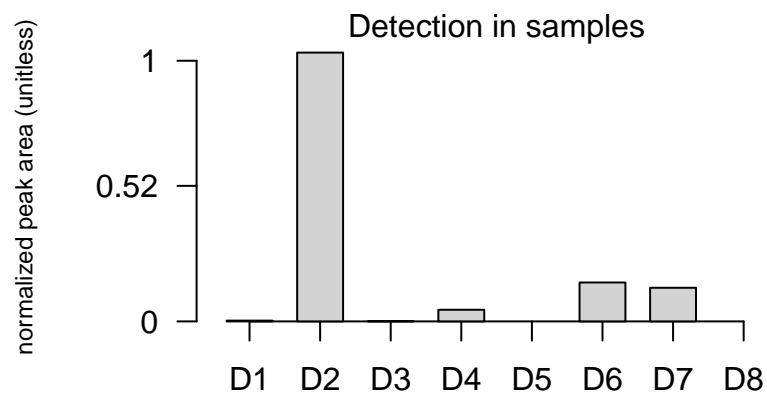
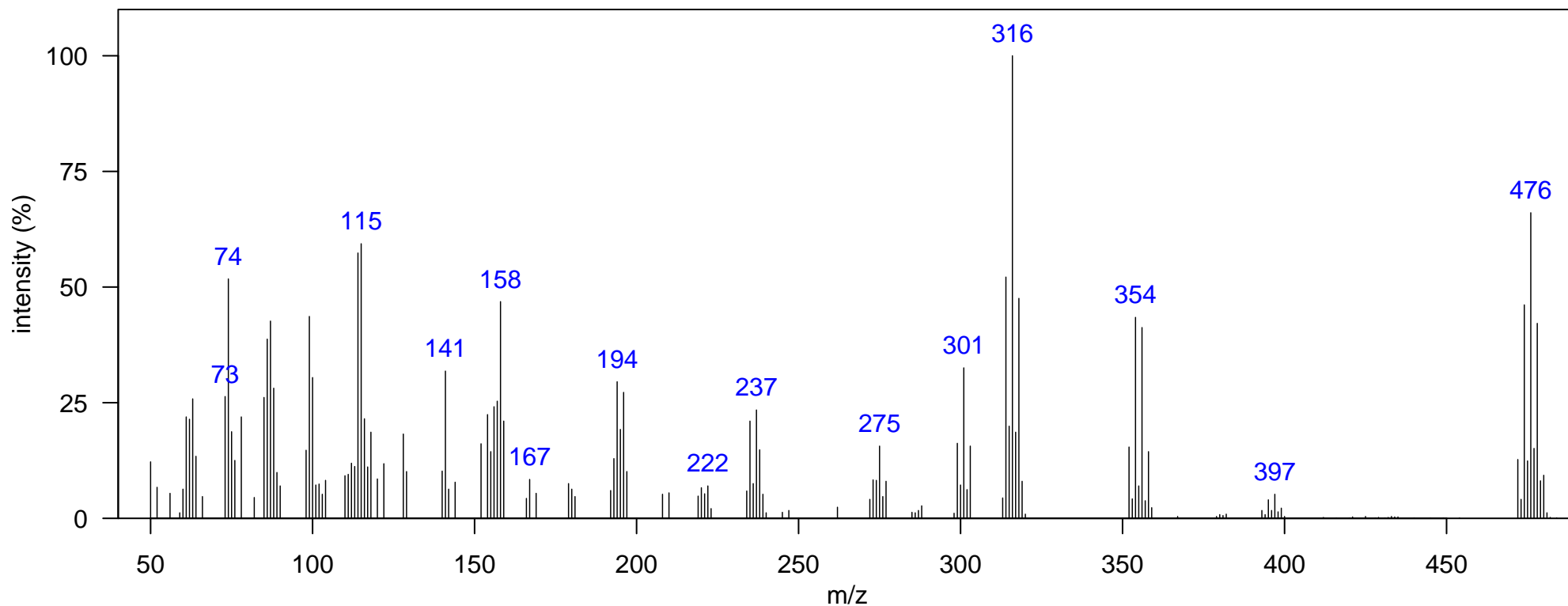
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DMBP 4Br

Source: natural

Comment:

Identification: Authentic MS



m/z [Fragment]

314 [M-Br<sub>2</sub>]<sup>+</sup>

352 [M-BrCNCH<sub>3</sub>]<sup>+</sup>

472 M<sup>+</sup>

Name: DMBP 4Br 3

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1495.49, 1.663

Ecotype: offshore

Quantitative Ion m/z: 476

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Br<sub>4</sub>N<sub>2</sub>

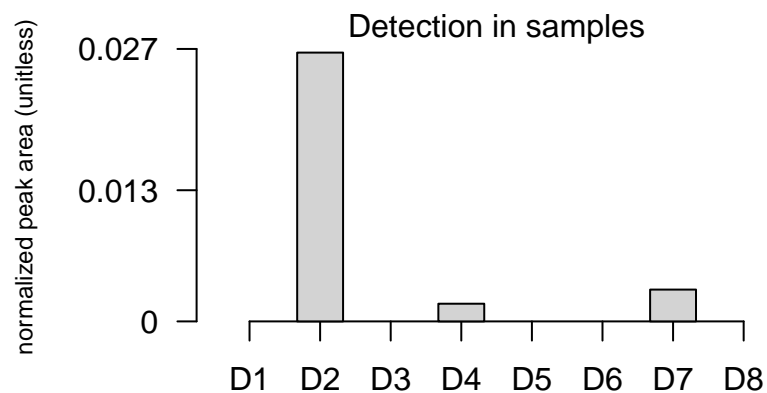
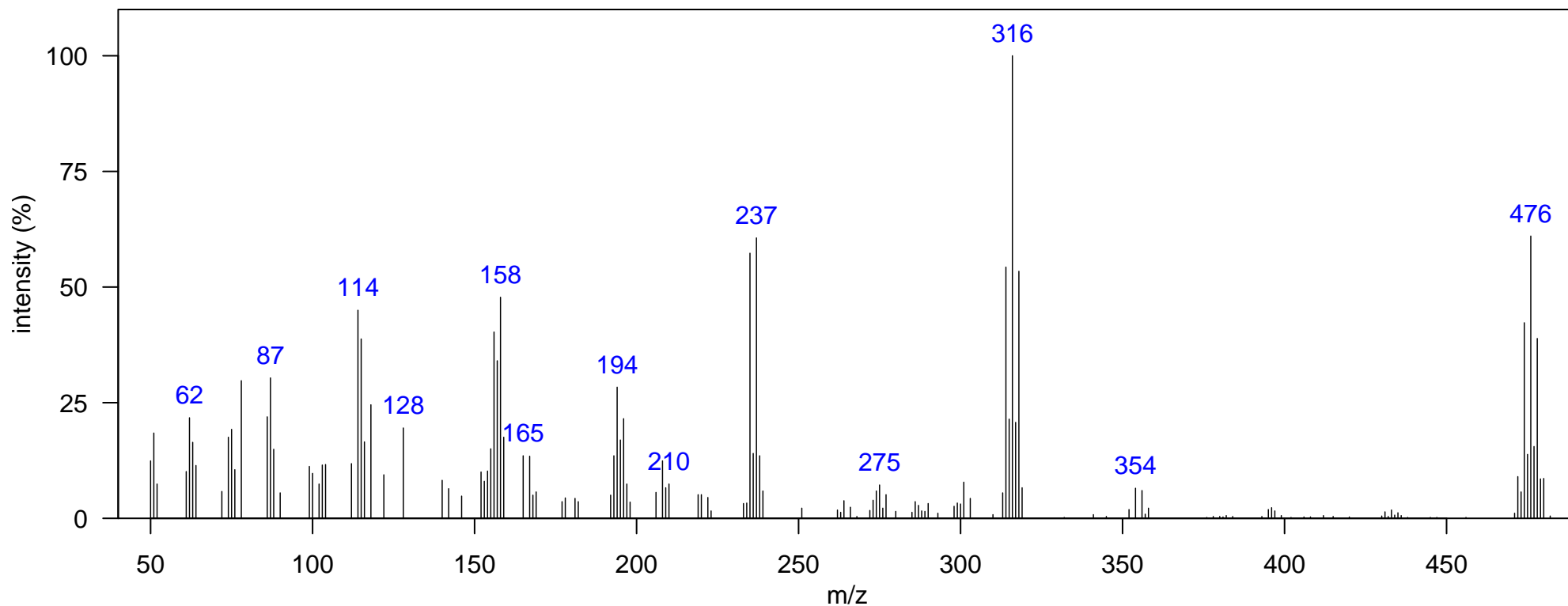
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DMBP 4Br

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
314 [M-Br <sub>2</sub> ] <sup>+</sup>
352 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
472 M <sup>+</sup>



Name: DMBP 4Br 4

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1540.96, 1.353

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

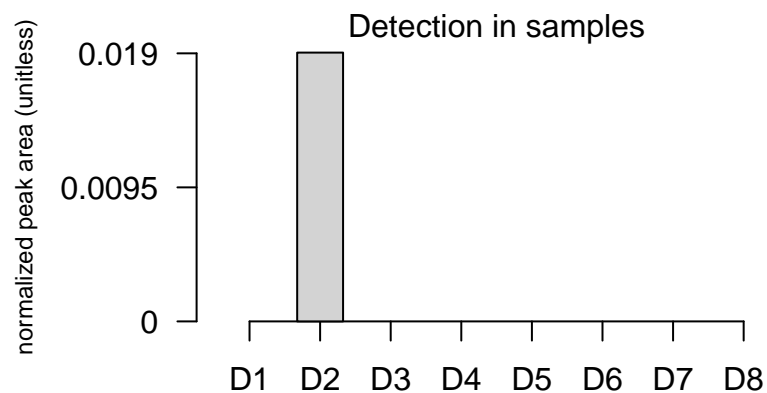
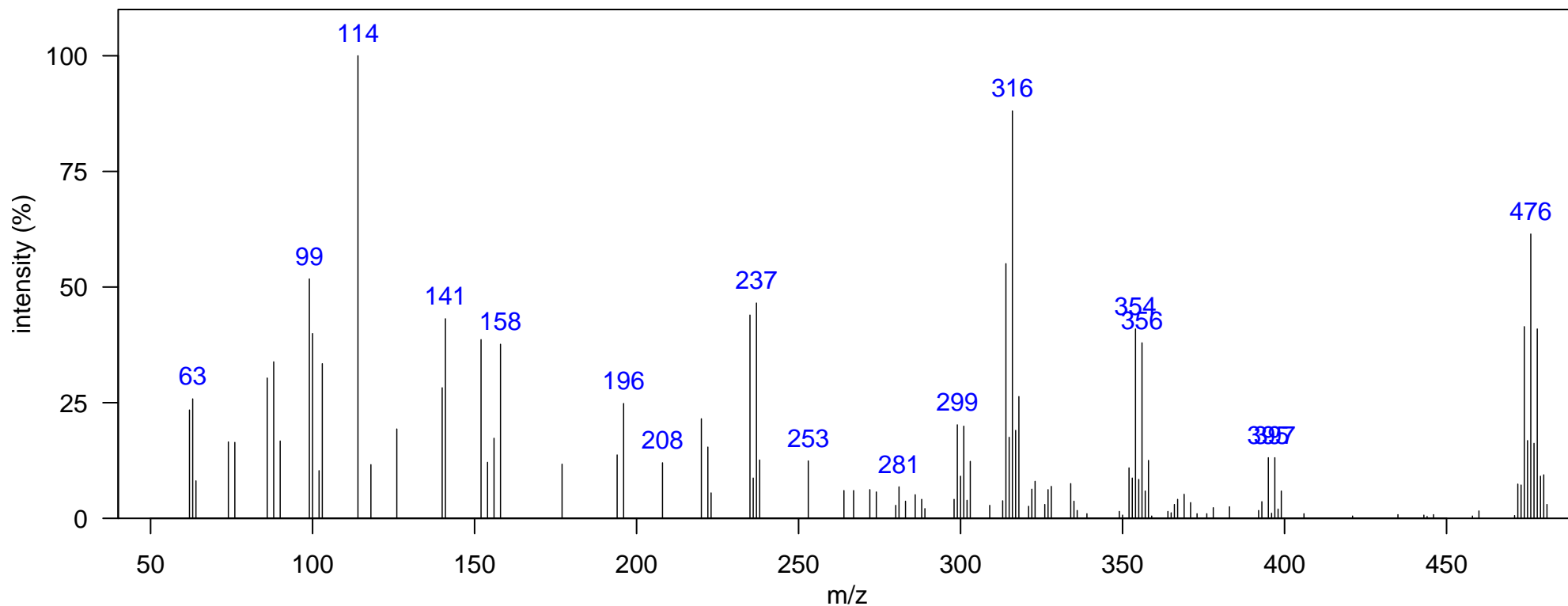
Quantitative Ion m/z: 476

Atlantic Lib: DMBP 4Br

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Br<sub>4</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS RT



m/z [Fragment]
314 [M-Br <sub>2</sub> ] <sup>+</sup>
352 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
472 M <sup>+</sup>

Name: DMBP Br4Cl 1

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1488.49, 1.505

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

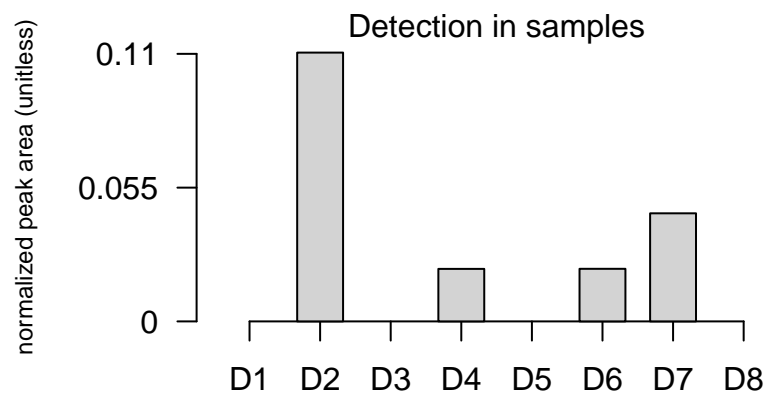
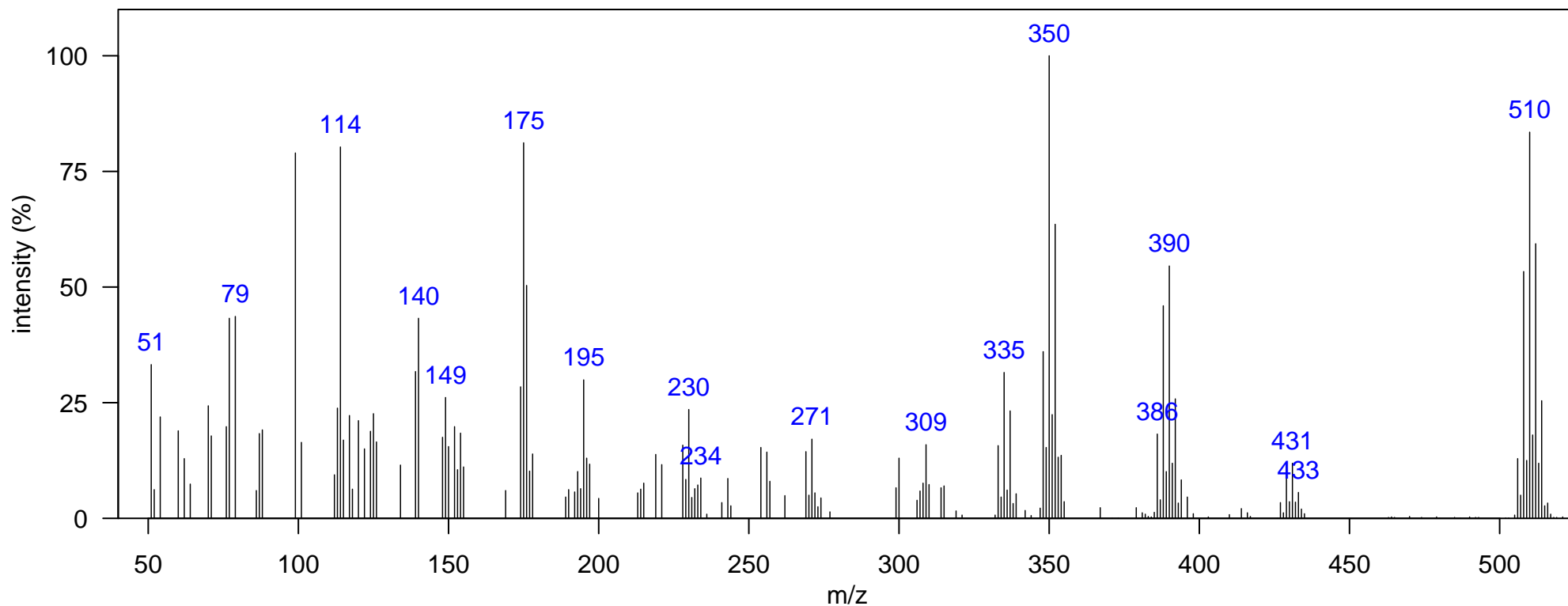
Quantitative Ion m/z: 510

Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>4</sub>ClN<sub>2</sub>

Source: natural

Identification: Authentic MS RT



m/z [Fragment]
348 [M-Br <sub>2</sub> ] <sup>+</sup>
386 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
506 M <sup>+</sup>

Name: DMBP Br4Cl 2

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1544.46, 1.769

Ecotype: offshore

Quantitative Ion m/z: 510

Instrument: GCxGC-TOF, EI, 70 eV

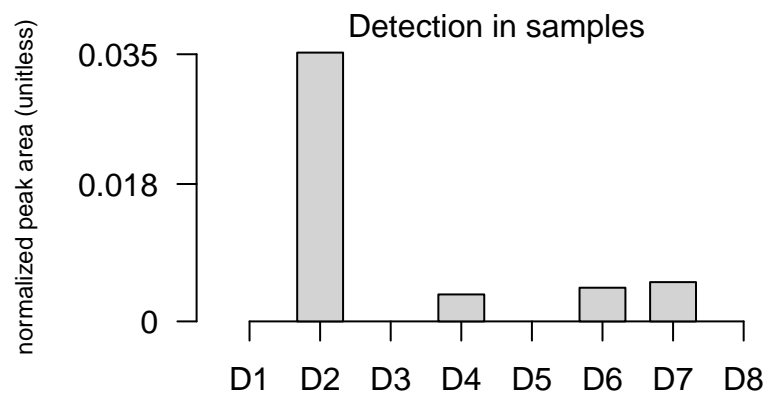
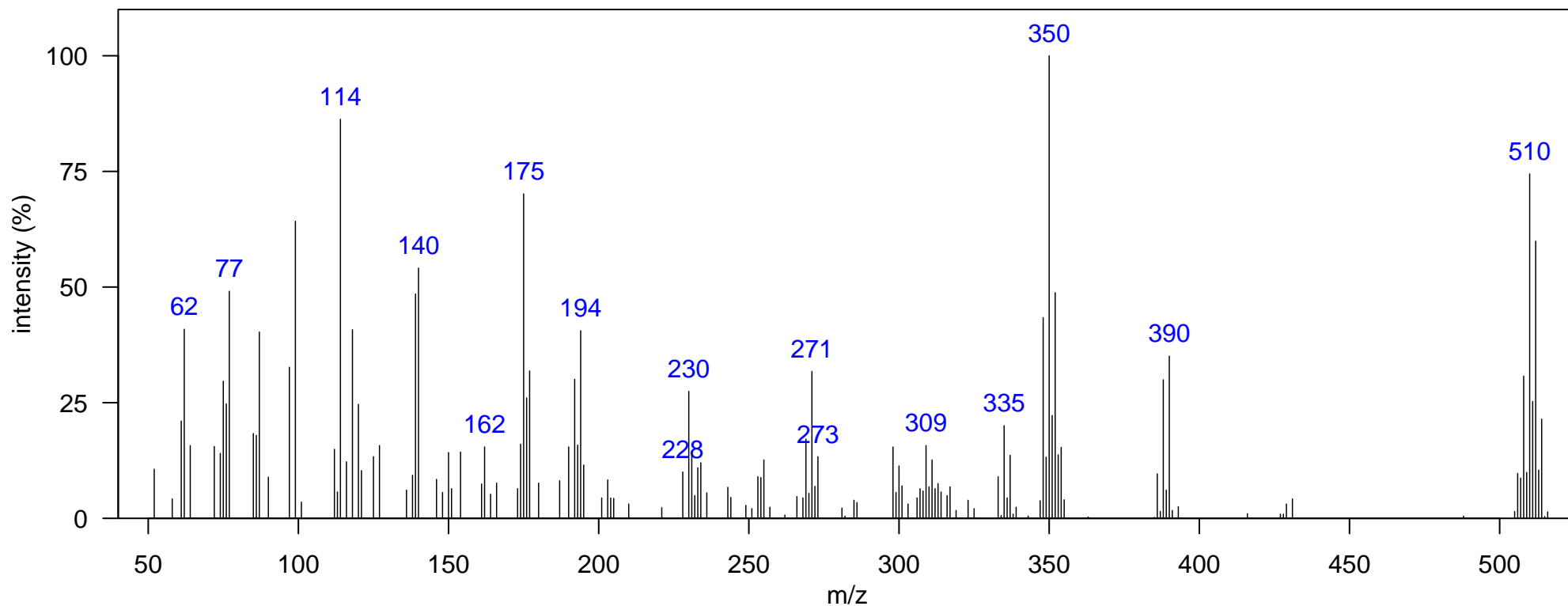
Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>4</sub>ClN<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
348 [M-Br <sub>2</sub> ] <sup>+</sup>
386 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
506 M <sup>+</sup>

Name: DMBP Br4Cl2

Class: DMBP

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1593.43, 1.921

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

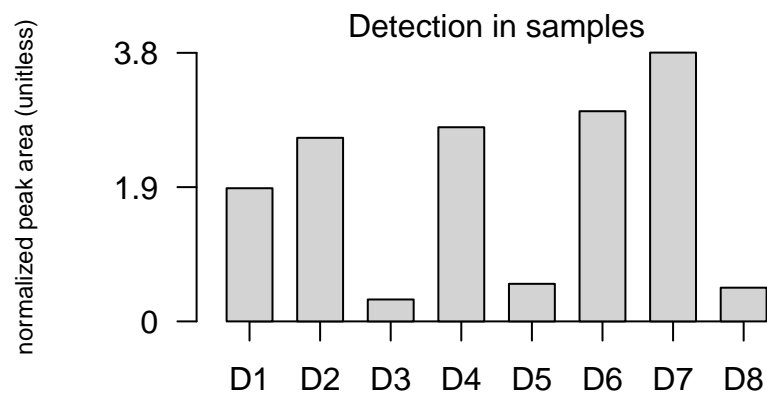
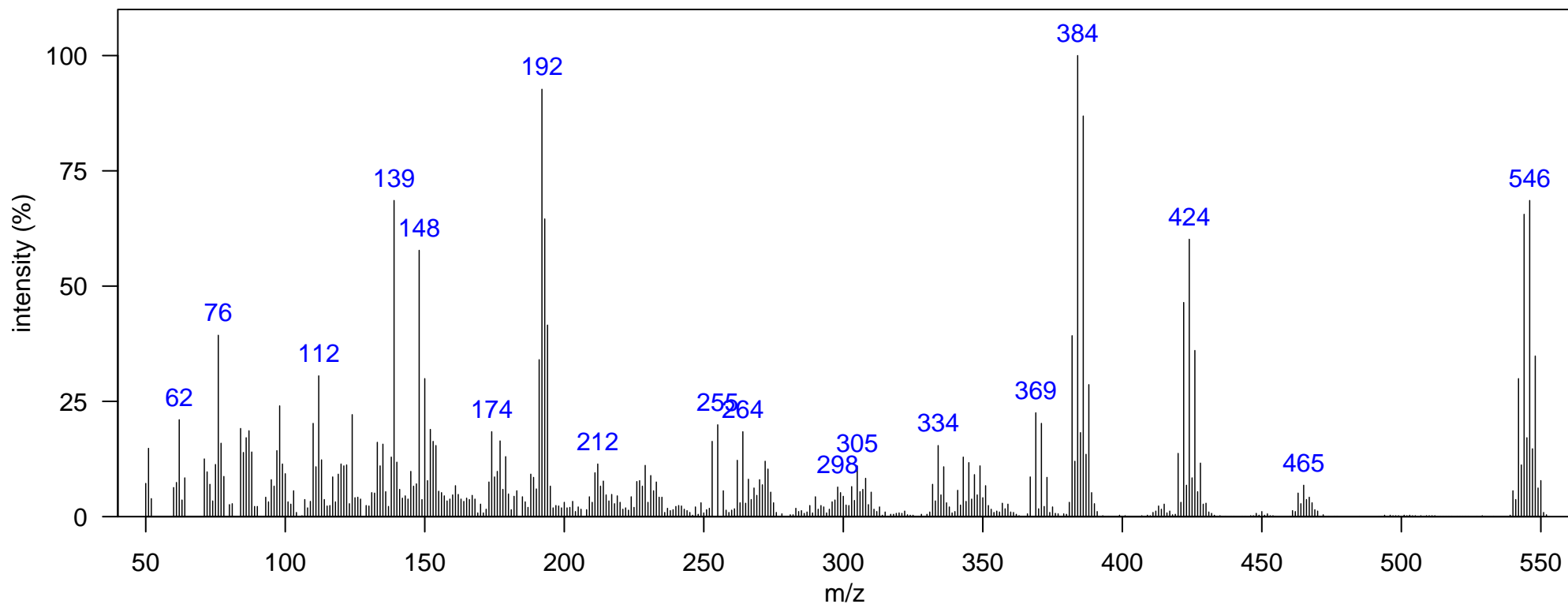
Quantitative Ion m/z: 546

Atlantic Lib: DMBP Br4Cl2

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>2</sub>Br<sub>4</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS RT



m/z [Fragment]
382 [M-Br <sub>2</sub> ] <sup>+</sup>
420 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
540 M <sup>+</sup>

Name: DMBP 5Br 1

Class: DMBP

Sample: SoCal dolphin blubber D7, DSJ1765 1D RT, 2D RT (s): 1537.46, 1.683

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

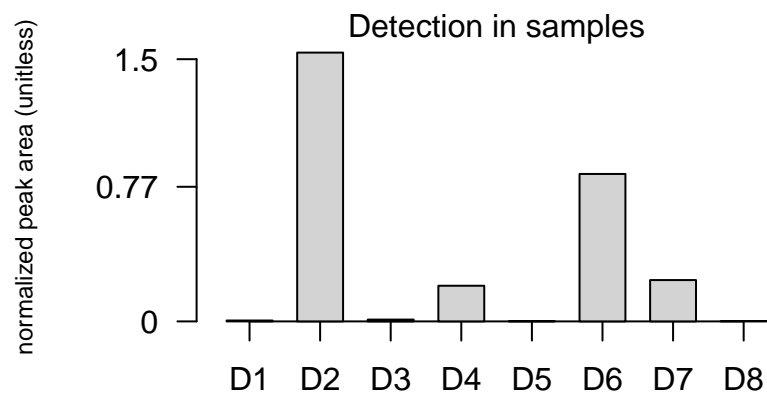
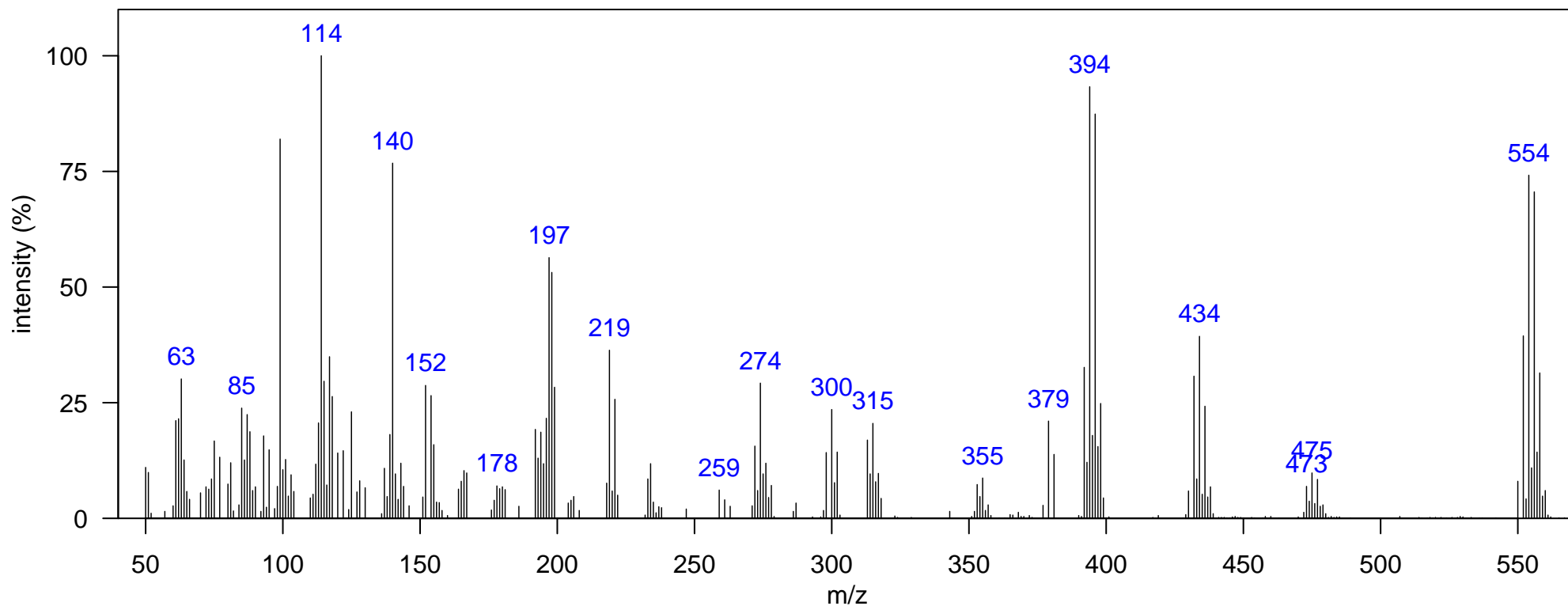
Quantitative Ion m/z: 554

Atlantic Lib: DMBP 5Br

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>5</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS RT



m/z [Fragment]
392 [M-Br <sub>2</sub> ] <sup>+</sup>
430 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
550 M <sup>+</sup>

Name: DMBP 5Br 2

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1600.43, 2.099

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

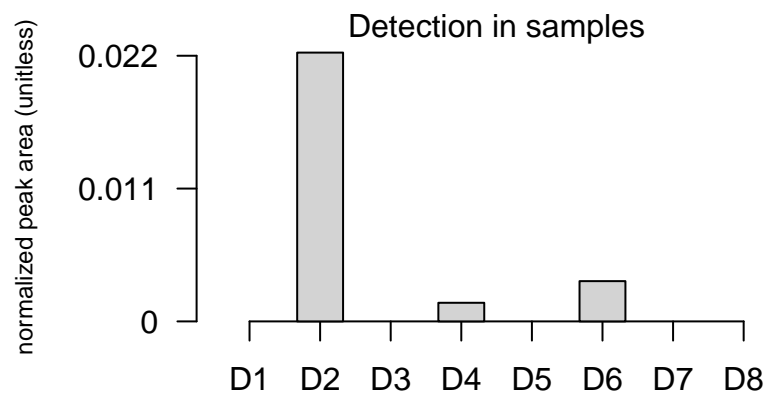
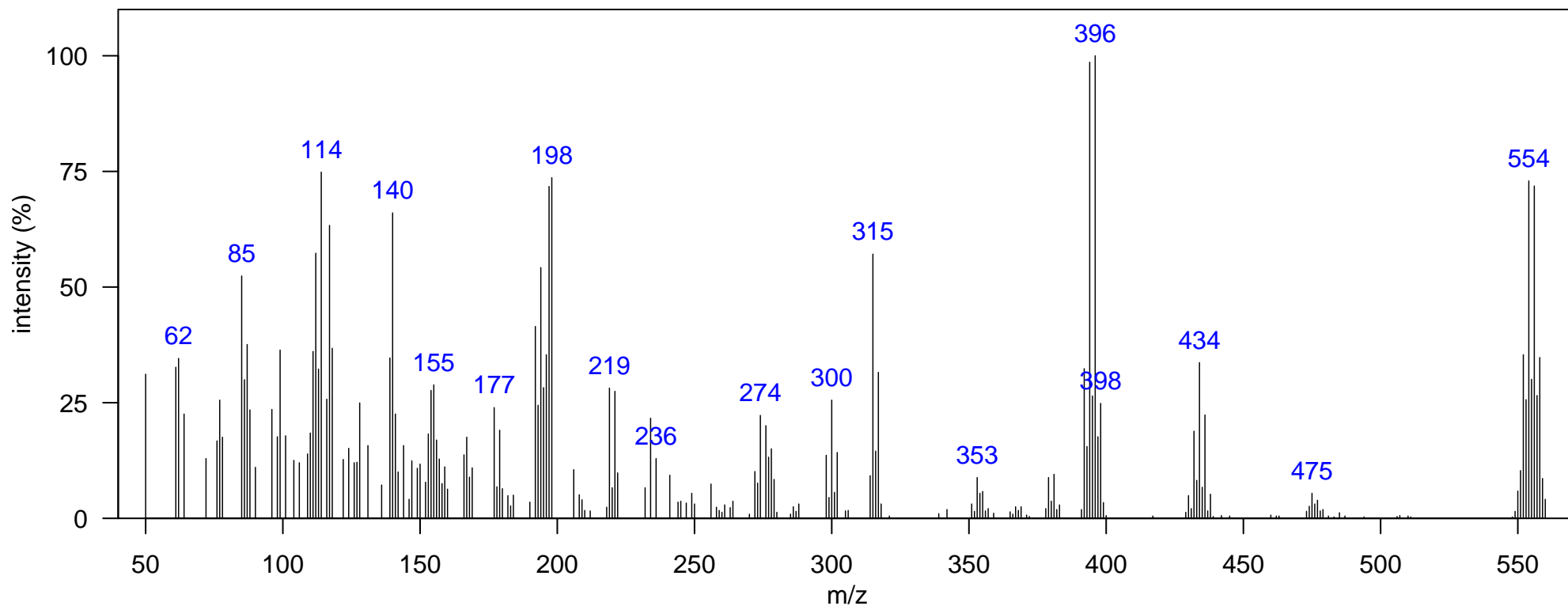
Quantitative Ion m/z: 554

Atlantic Lib: DMBP Br5

Elemental Formula: C<sub>10</sub>H<sub>7</sub>Br<sub>5</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS RT



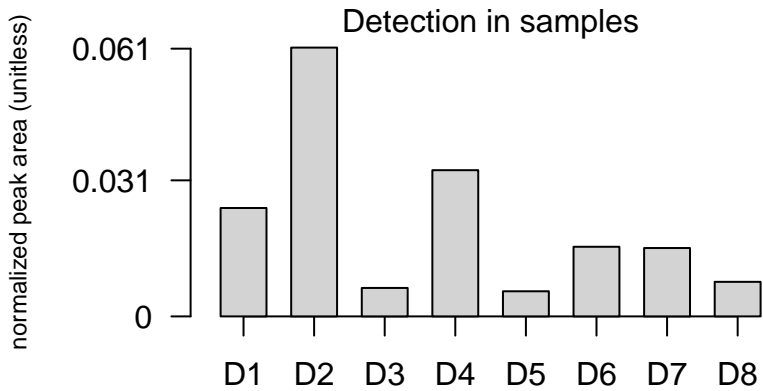
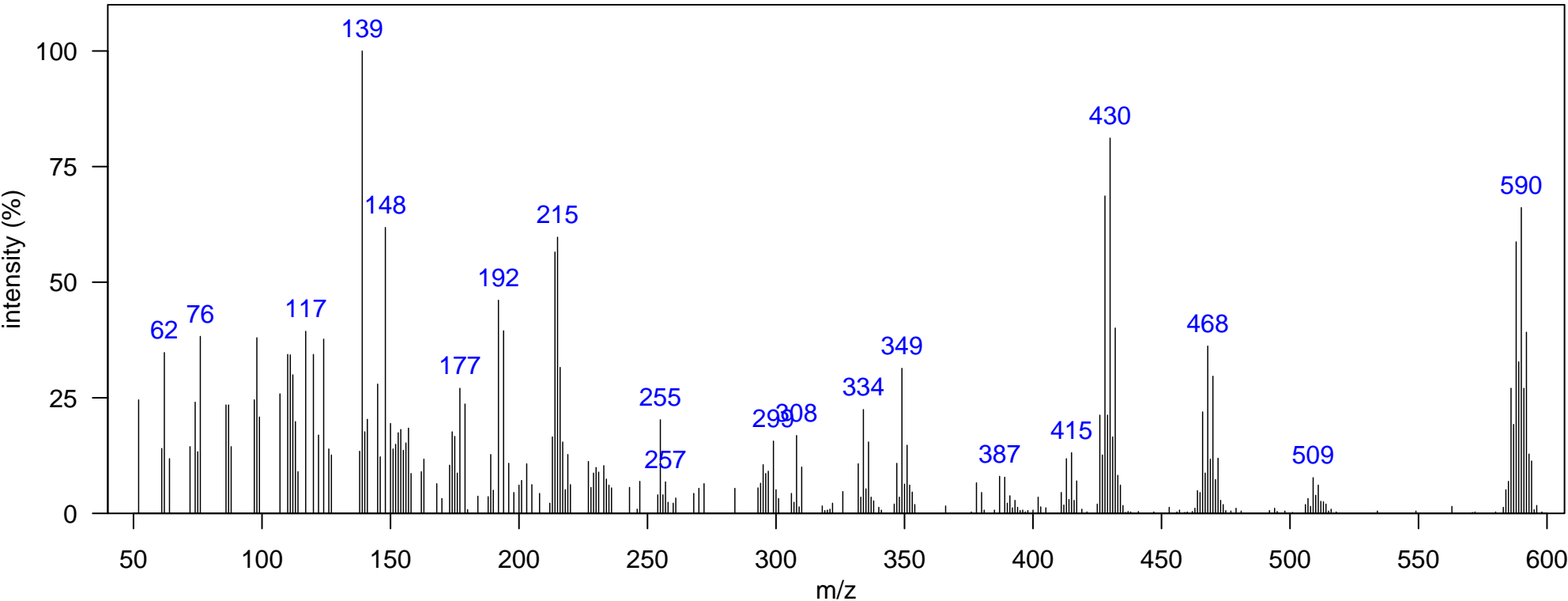
m/z [Fragment]
392 [M-Br <sub>2</sub> ] <sup>+</sup>
430 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
550 M <sup>+</sup>

Name: DMBP Br5Cl

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1656.4, 2.284  
Ecotype: offshore Quantitative Ion m/z: 590  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib: DMBP Br5Cl  
Comment:

Elemental Formula: C10H6Br5ClN2  
Source: natural  
Identification: Authentic MS RT



m/z [Fragment]
426 [M-Br2]+
464 [M-BrCNCH3]+
584 M+

Name: DMBP 6Br

Class: DMBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1722.86, 2.323

Ecotype: offshore

Quantitative Ion m/z: 634

Instrument: GCxGC-TOF, EI, 70 eV

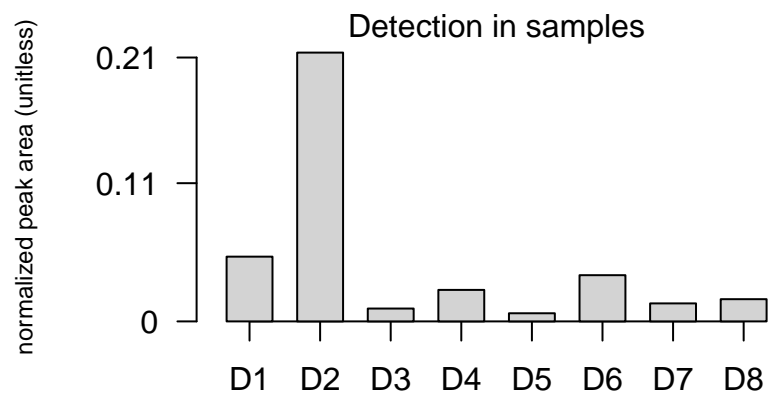
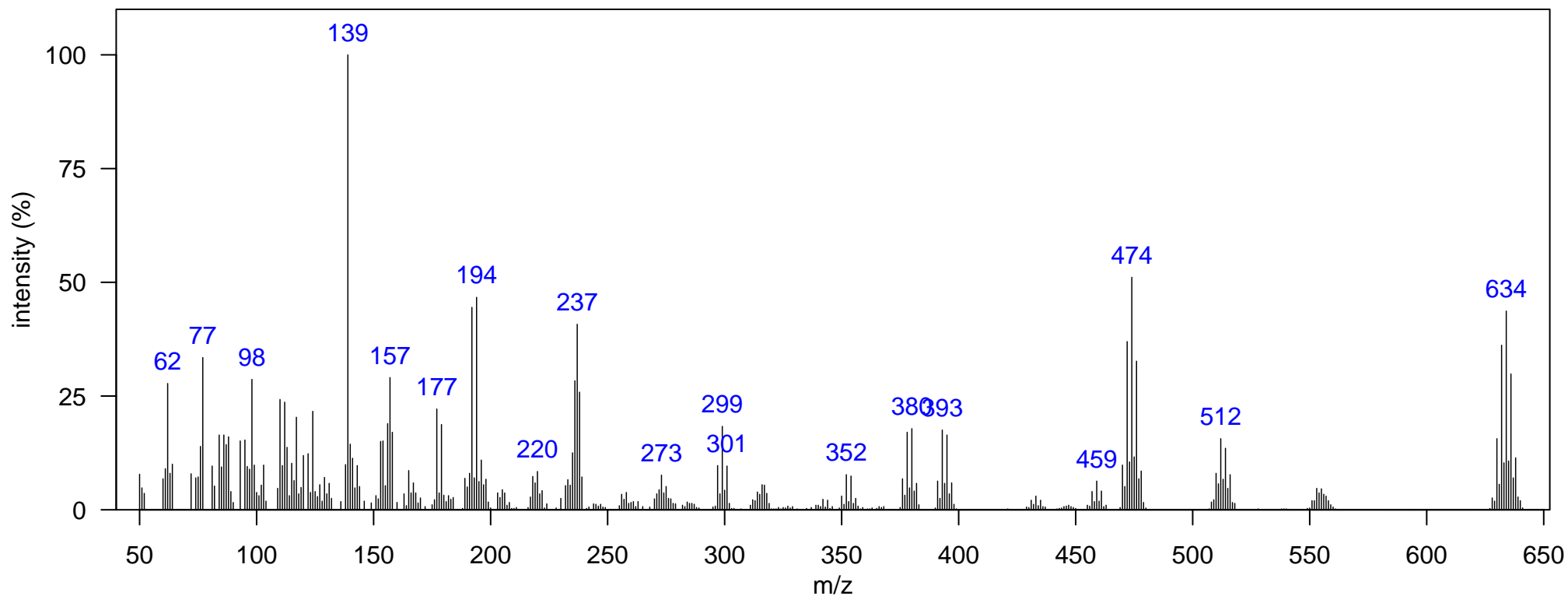
Atlantic Lib: DMBP 6Br

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Br<sub>6</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
470 [M-Br <sub>2</sub> ] <sup>+</sup>
508 [M-BrCNCH <sub>2</sub> ] <sup>+</sup>
628 M <sup>+</sup>



Name: MBP 6Cl 1

Class: MBP

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1247.13, 1.188

Ecotype: coastal

Quantitative Ion m/z: 352

Instrument: GCxGC-TOF, EI, 70 eV

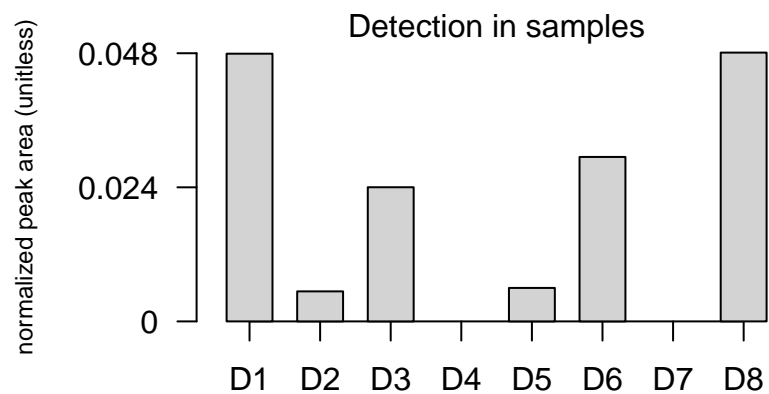
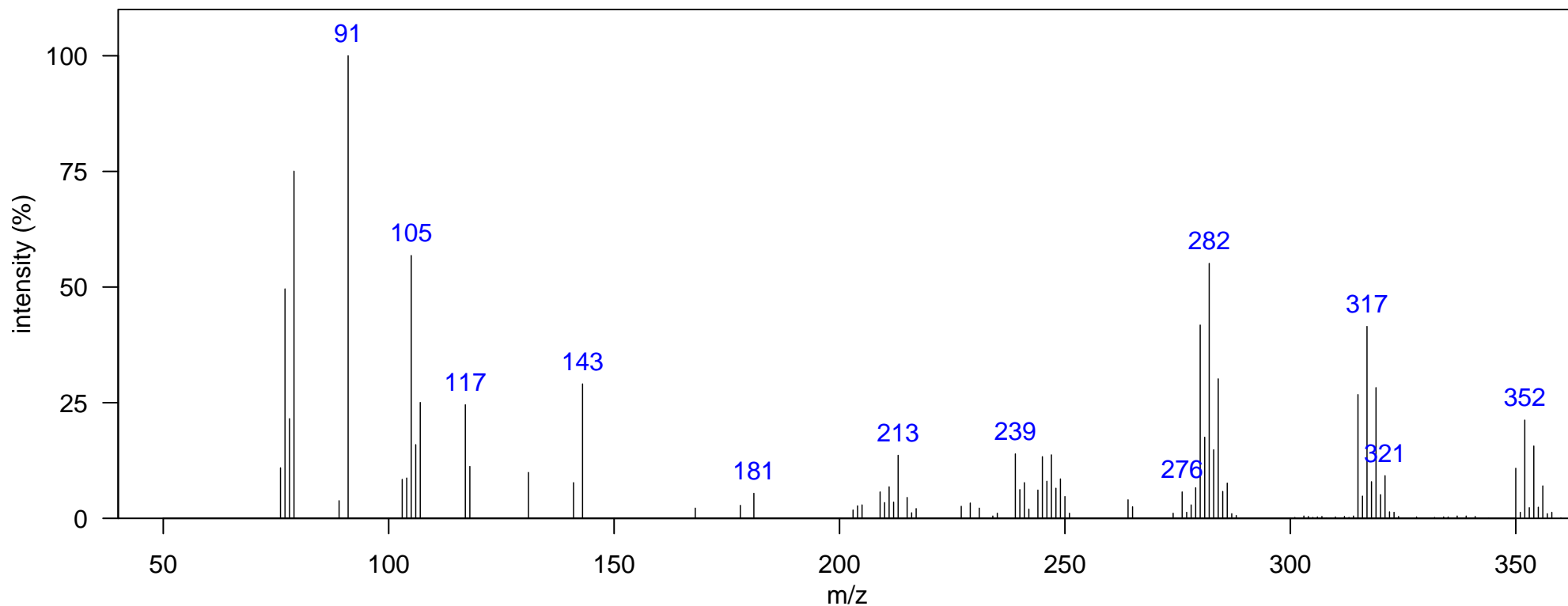
Atlantic Lib: MBP 6Cl

Elemental Formula: C<sub>9</sub>H<sub>4</sub>Cl<sub>6</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS



m/z [Fragment]
245 [M-Cl3]+
280 [M-Cl2]+
315 [M-Cl]+
350 M+

Name: MBP 6Cl 2

Class: MBP

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1257.62, 1.214

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

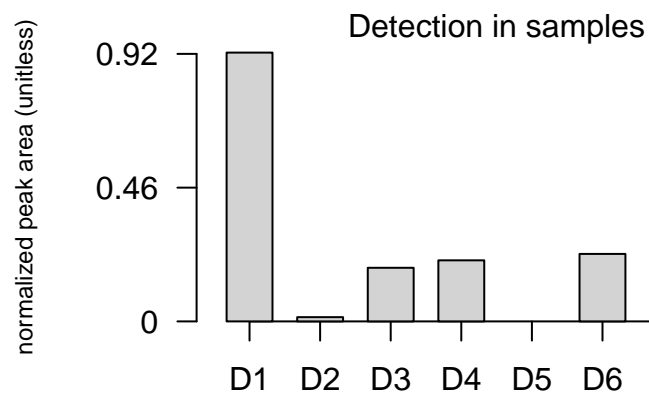
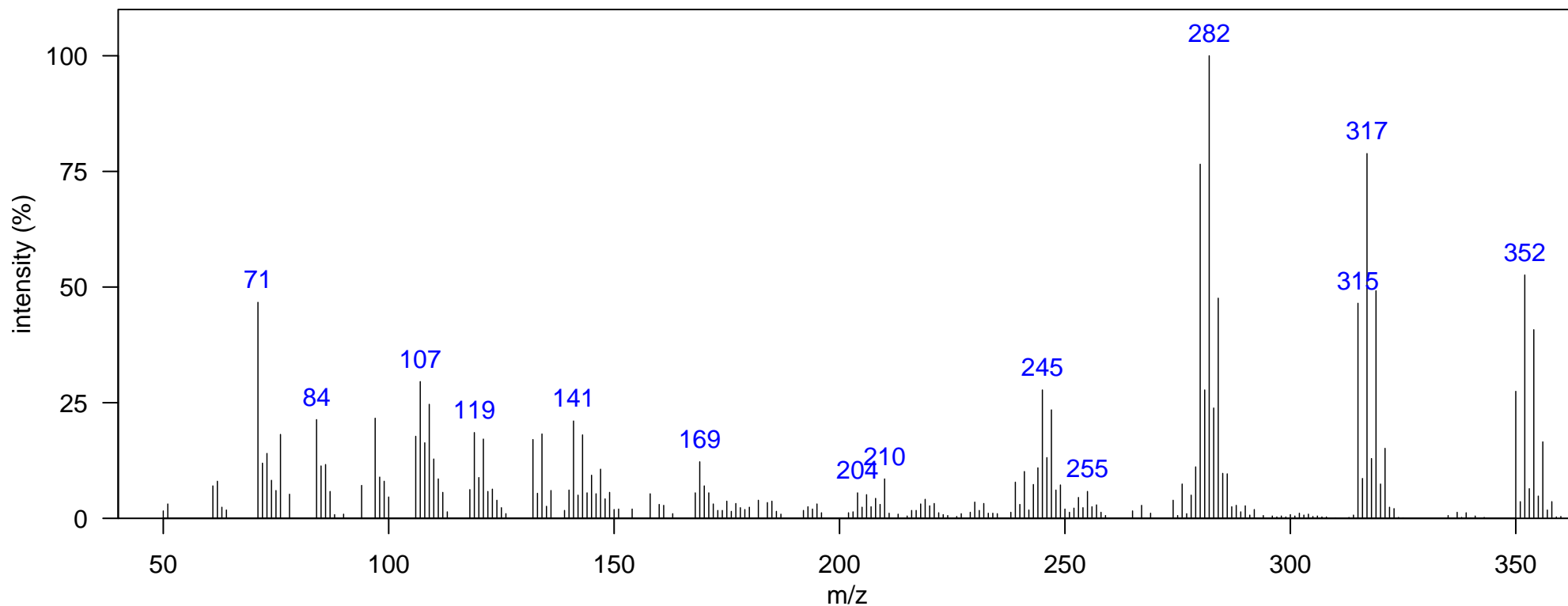
Quantitative Ion m/z: 352

Atlantic Lib: MBP 6Cl

Elemental Formula: C<sub>9</sub>H<sub>4</sub>Cl<sub>6</sub>N<sub>2</sub>

Source: natural

Identification: Authentic MS



m/z [Fragment]

245 [M-Cl<sub>3</sub>]<sup>+</sup>

280 [M-Cl<sub>2</sub>]<sup>+</sup>

315 [M-Cl]<sup>+</sup>

350 M<sup>+</sup>

Name: MBP 6Cl 3

Class: MBP

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1299.6, 1.221

Ecotype: coastal

Quantitative Ion m/z: 352

Instrument: GCxGC-TOF, EI, 70 eV

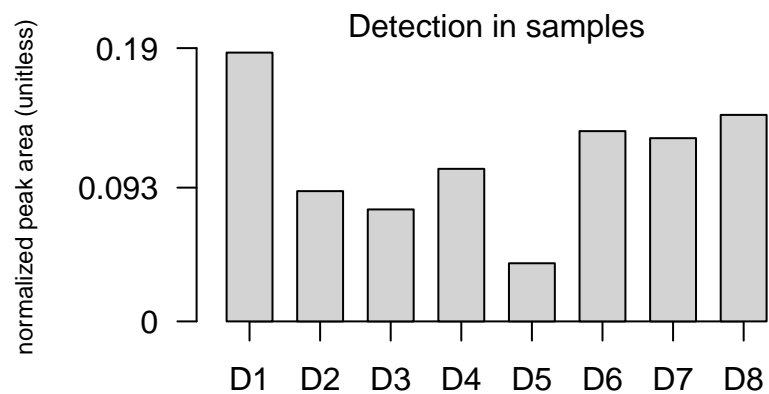
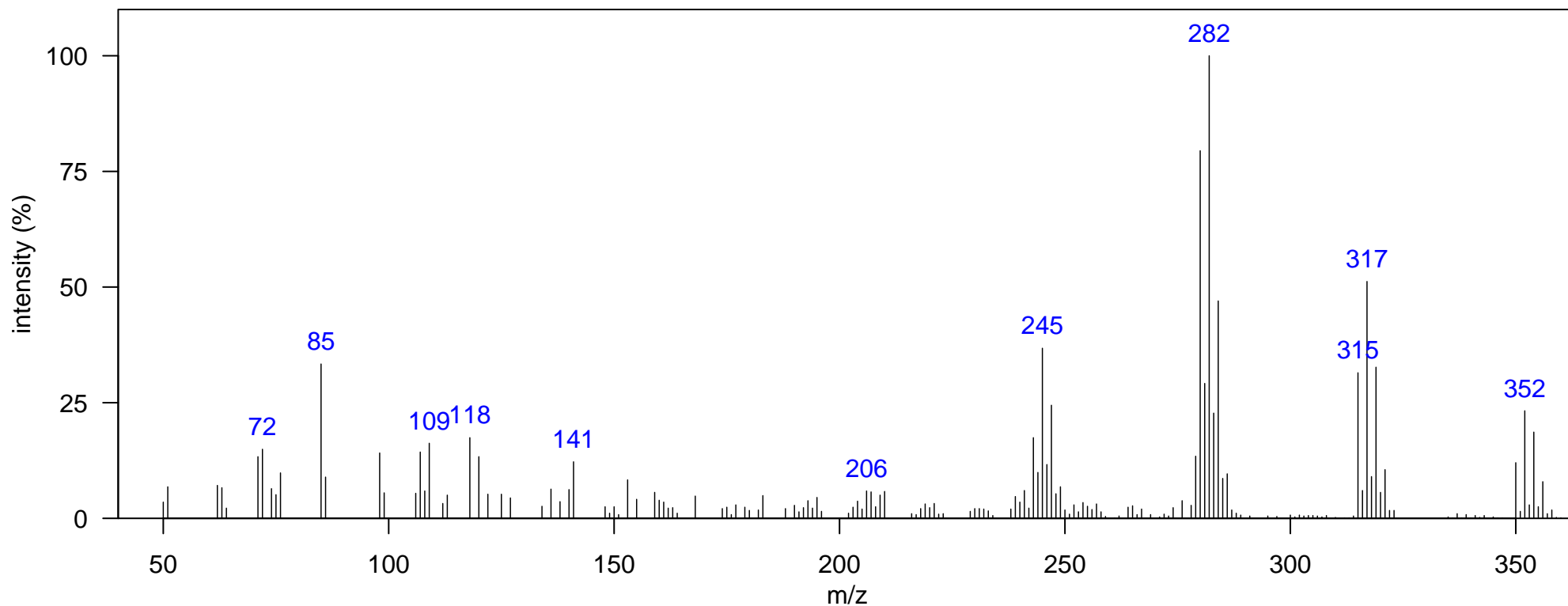
Atlantic Lib: MBP 6Cl

Elemental Formula: C<sub>9</sub>H<sub>4</sub>Cl<sub>6</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS



m/z [Fragment]
280 [M-Cl <sub>2</sub> ] <sup>+</sup>
315 [M-Cl] <sup>+</sup>
350 M <sup>+</sup>

Name: MBP 7CI

Class: MBP

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1348.57, 1.234

Ecotype: coastal

Quantitative Ion m/z: 388

Instrument: GCxGC-TOF, EI, 70 eV

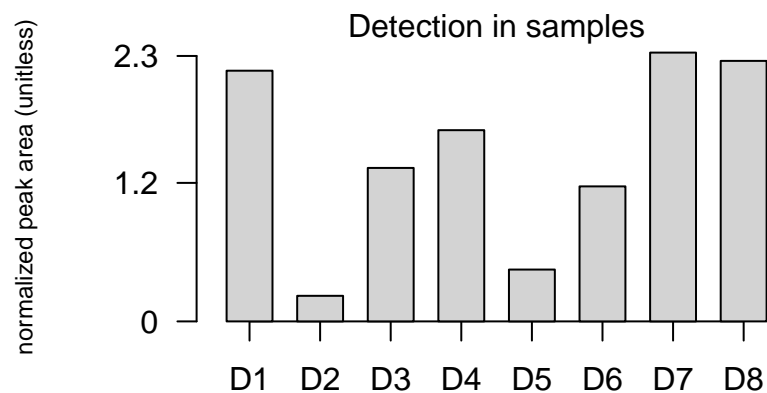
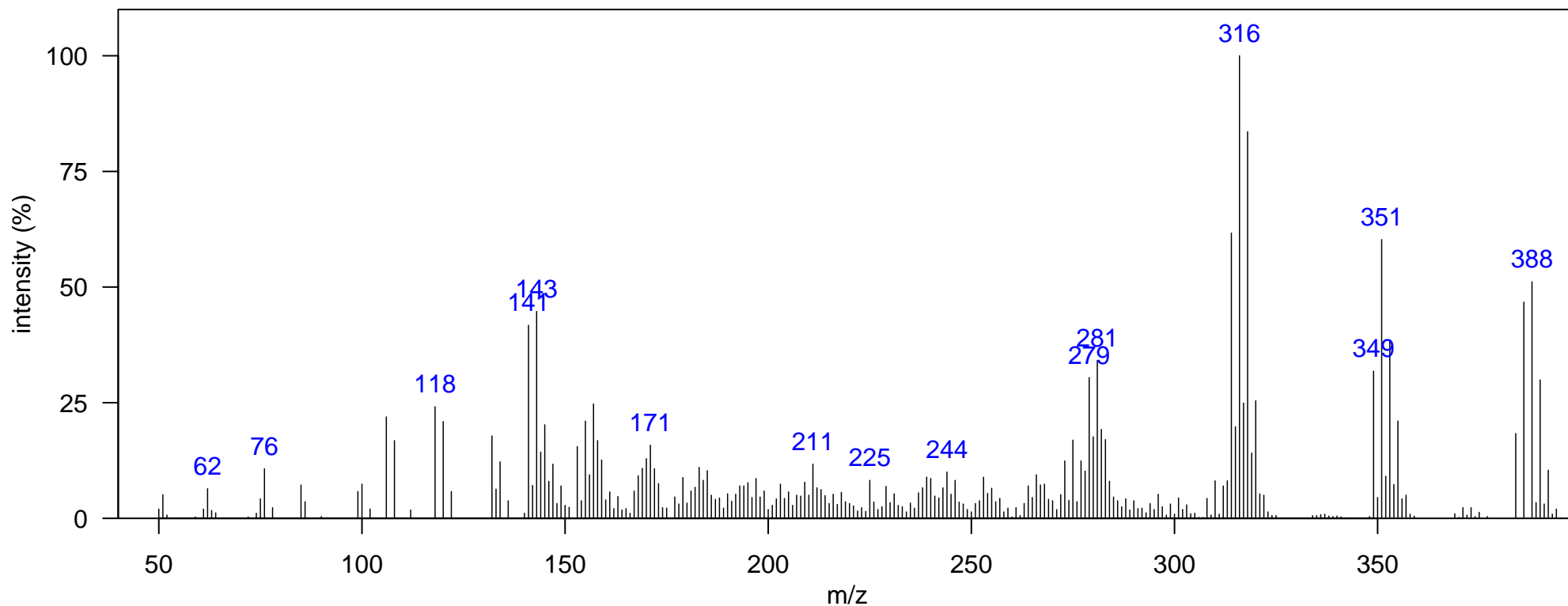
Atlantic Lib: MBP 7CI

Elemental Formula: C<sub>9</sub>H<sub>3</sub>Cl<sub>7</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
314 [M-Cl <sub>2</sub>
349 [M-Cl] <sup>+</sup>
384 M <sup>+</sup>

Name: MBP 4Br 1

Class: MBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1429.03, 1.498

Ecotype: offshore

Quantitative Ion m/z: 462

Instrument: GCxGC-TOF, EI, 70 eV

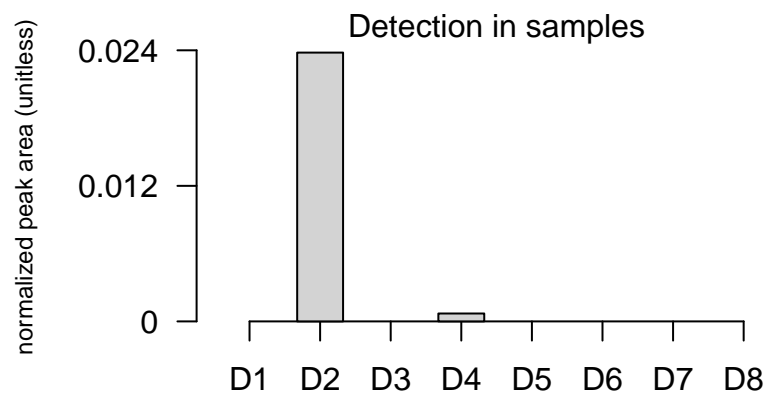
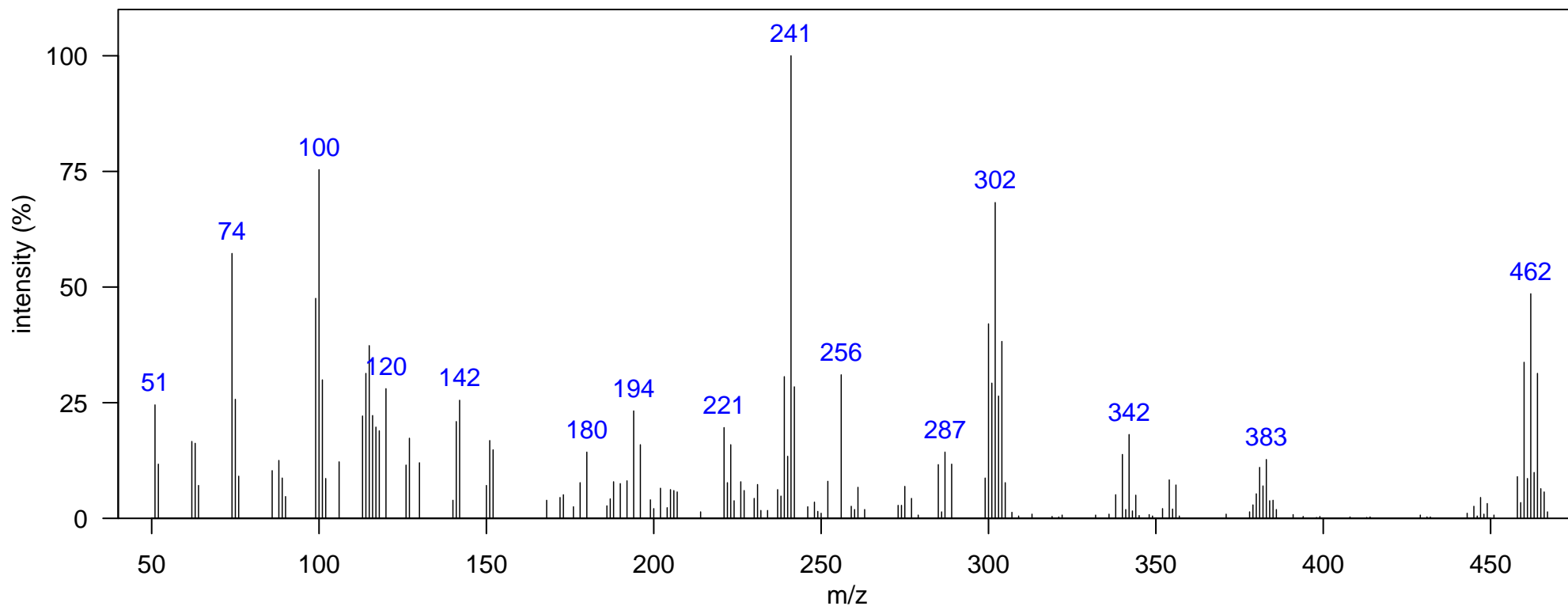
Atlantic Lib: MBP 4Br

Elemental Formula: C<sub>9</sub>H<sub>6</sub>Br<sub>4</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
221 [M-Br3]+
300 [M-Br2]+
379 [M-Br]+
458 M+

Name: MBP 4Br 2

Class: MBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1484.99, 1.604

Ecotype: offshore

Quantitative Ion m/z: 462

Instrument: GCxGC-TOF, EI, 70 eV

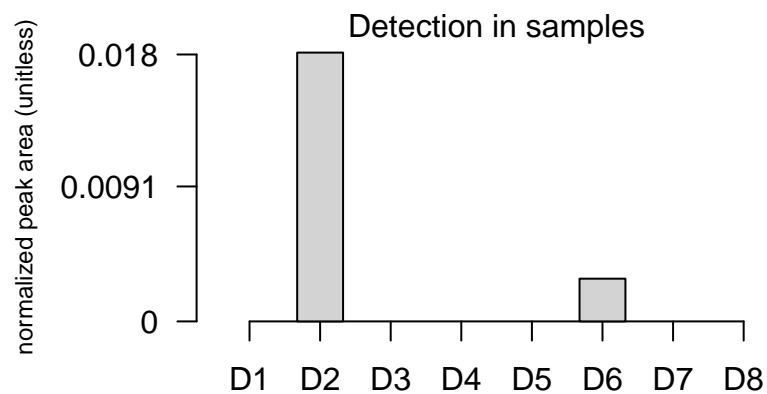
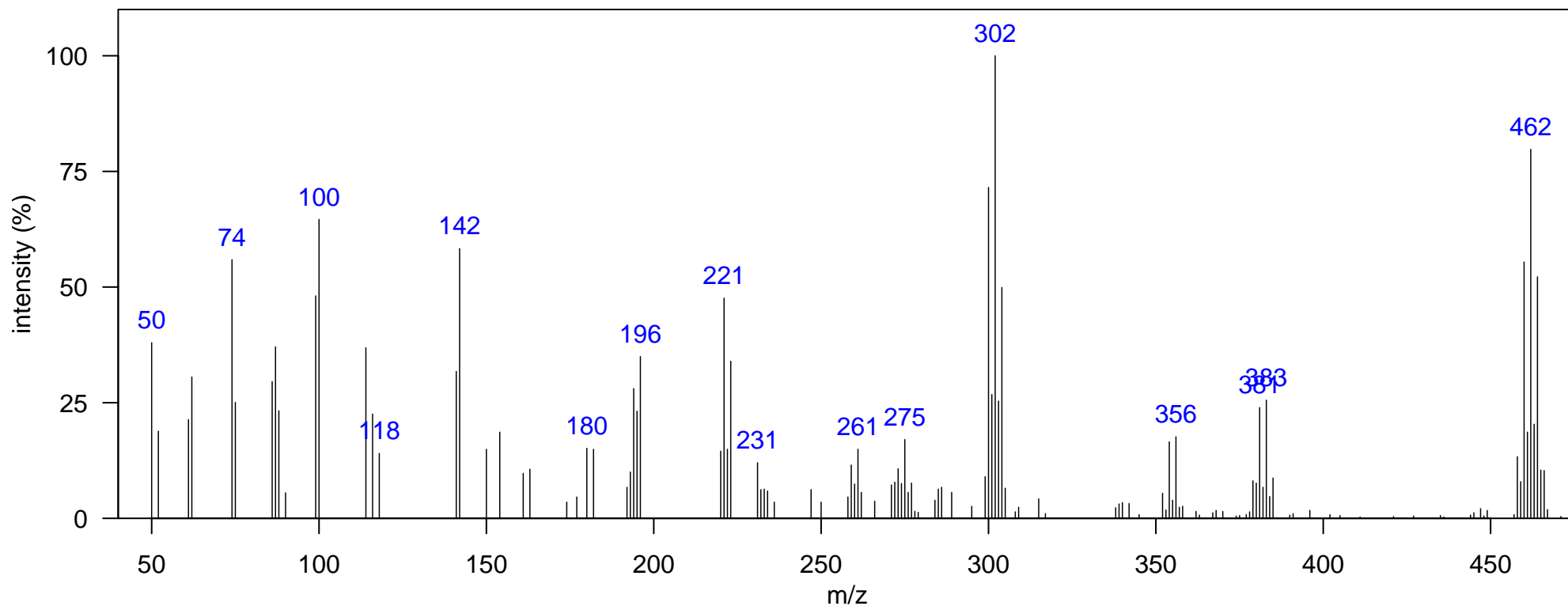
Atlantic Lib: MBP 4Br

Elemental Formula: C<sub>9</sub>H<sub>6</sub>Br<sub>4</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
221 [M-Br <sub>3</sub> ] <sup>+</sup>
300 [M-Br <sub>2</sub> ] <sup>+</sup>
379 [M-Br] <sup>+</sup>
458 M <sup>+</sup>

Name: MBP 4Br 3

Class: MBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1519.97, 1.762

Ecotype: offshore

Quantitative Ion m/z: 462

Instrument: GCxGC-TOF, EI, 70 eV

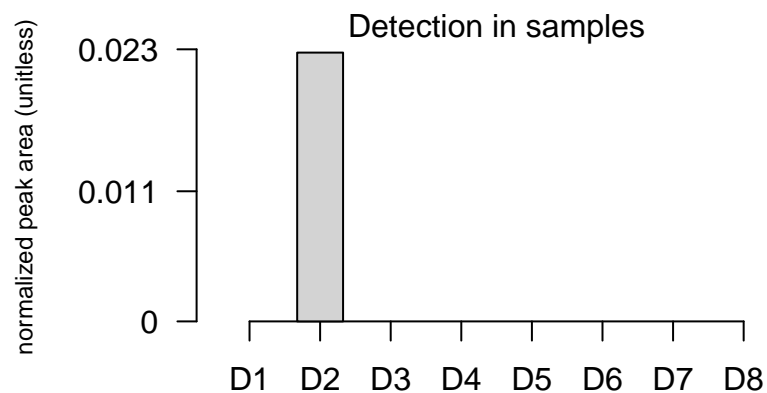
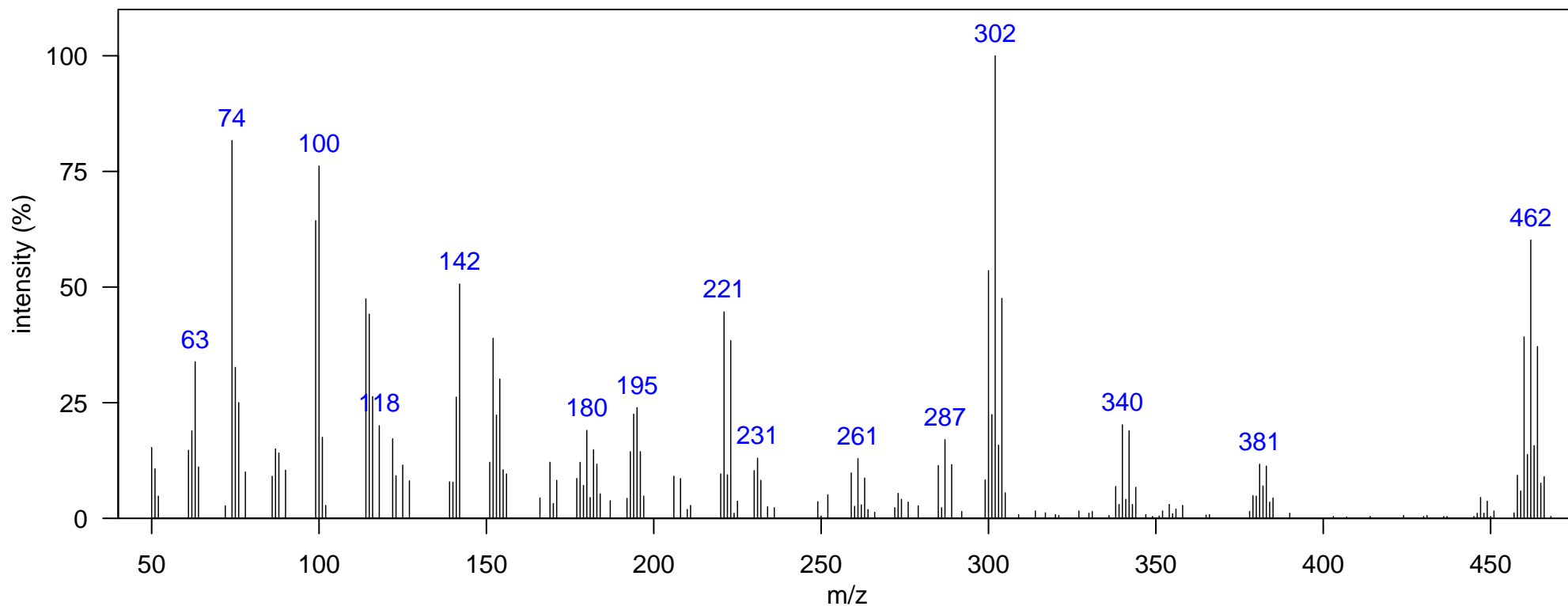
Atlantic Lib: MBP 4Br

Elemental Formula: C<sub>9</sub>H<sub>6</sub>Br<sub>4</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
221 [M-Br <sub>3</sub> ] <sup>+</sup>
300 [M-Br <sub>2</sub> ] <sup>+</sup>
379 [M-Br] <sup>+</sup>
458 M <sup>+</sup>

Name: MBP 4Br 4

Class: MBP

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1575.94, 2.185

Ecotype: offshore

Quantitative Ion m/z: 462

Instrument: GCxGC-TOF, EI, 70 eV

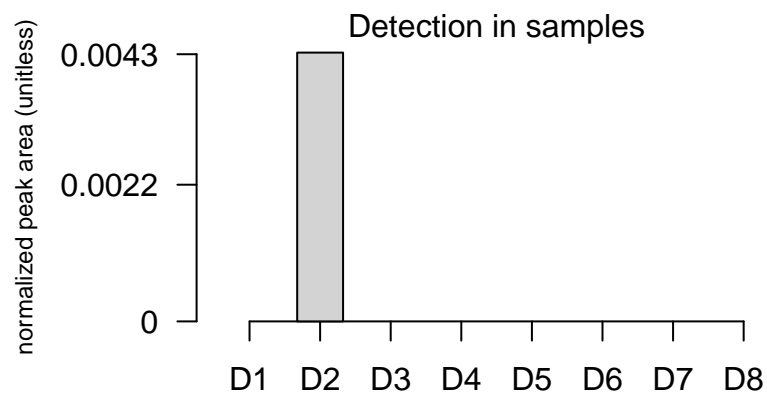
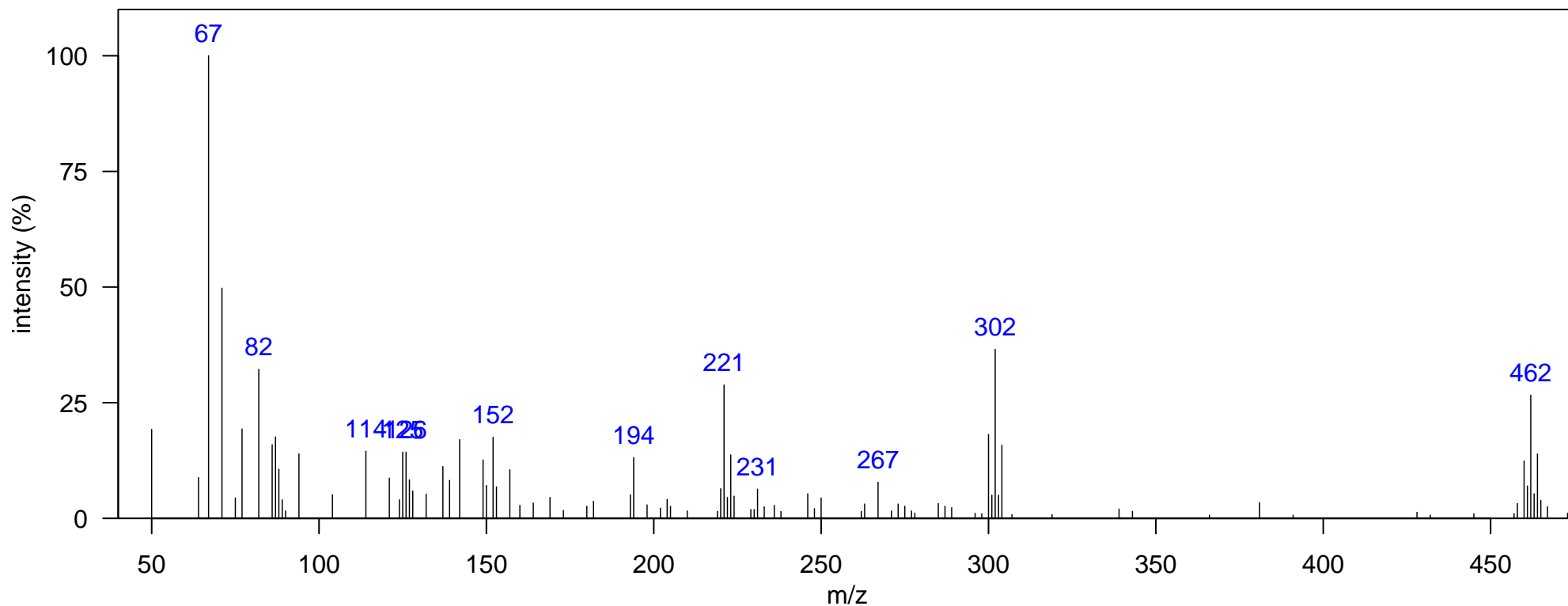
Atlantic Lib: MBP 4Br

Elemental Formula: C<sub>9</sub>H<sub>6</sub>Br<sub>4</sub>N<sub>2</sub>

Source: natural

Comment:

Identification: Manual-Congener Group



m/z [Fragment]
221 [M-Br <sub>3</sub> ] <sup>+</sup>
300 [M-Br <sub>2</sub> ] <sup>+</sup>
379 [M-Br] <sup>+</sup>
458 M <sup>+</sup>



Name: PBHD 3Br 1

Class: PBHD

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1645.9, 1.98

Ecotype: coastal

Quantitative Ion m/z: 387

Instrument: GCxGC-TOF, EI, 70 eV

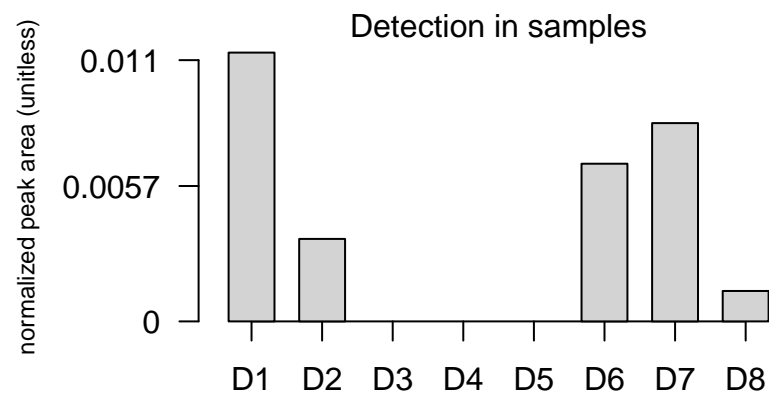
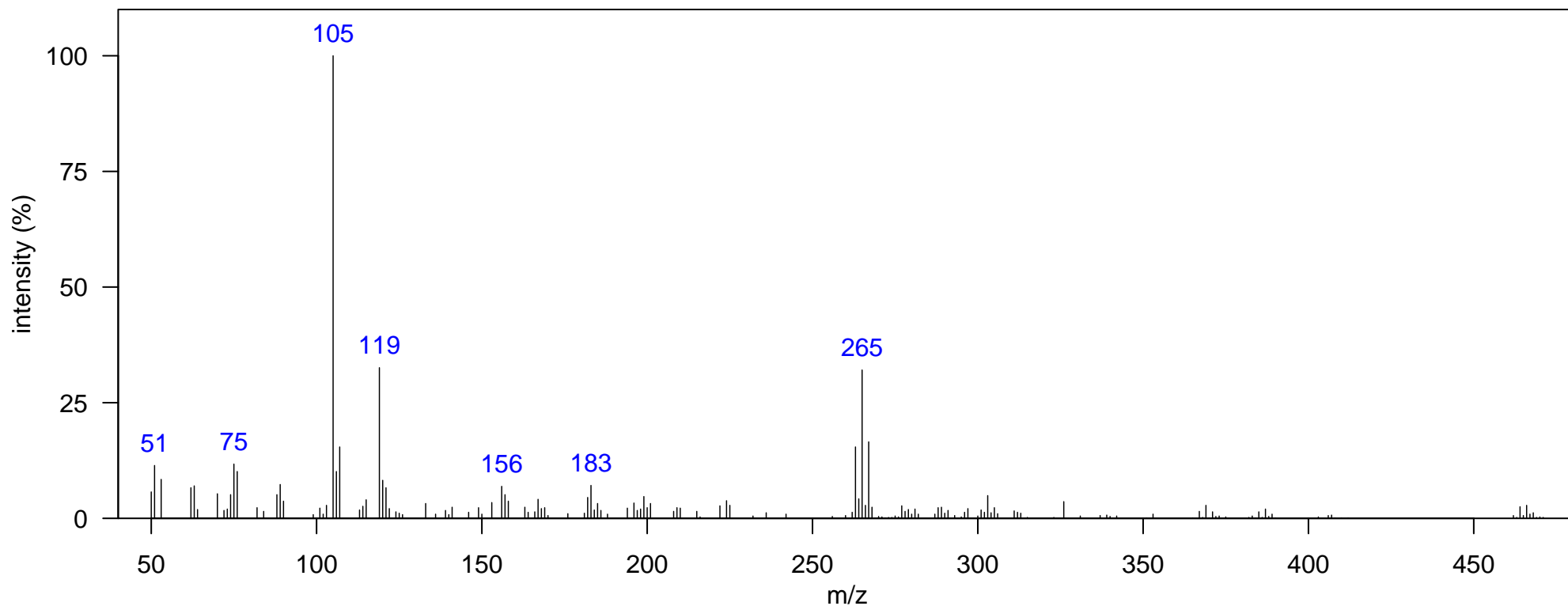
Atlantic Lib: PBHD 3Br

Elemental Formula: C<sub>16</sub>H<sub>19</sub>Br<sub>3</sub>O

Source: natural

Comment:

Identification: Authentic MS



m/z [Fragment]
385 [M-Br] <sup>+</sup>
464 M <sup>+</sup>

Name: PBHD 3Br 2

Class: PBHD

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1680.88, 2.145

Ecotype: offshore

Quantitative Ion m/z: 387

Elemental Formula: C<sub>16</sub>H<sub>19</sub>Br<sub>3</sub>O

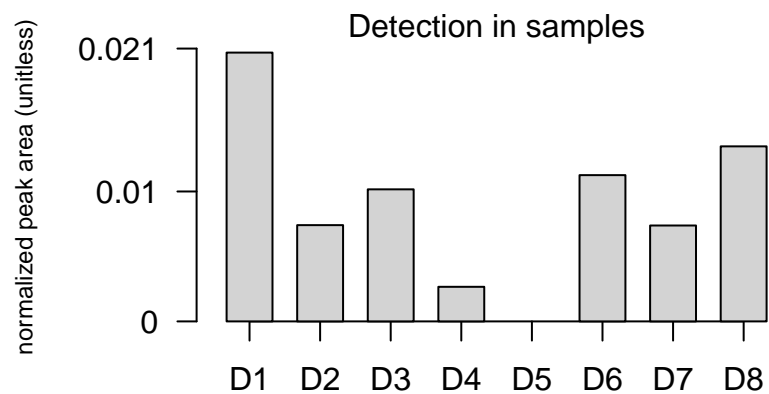
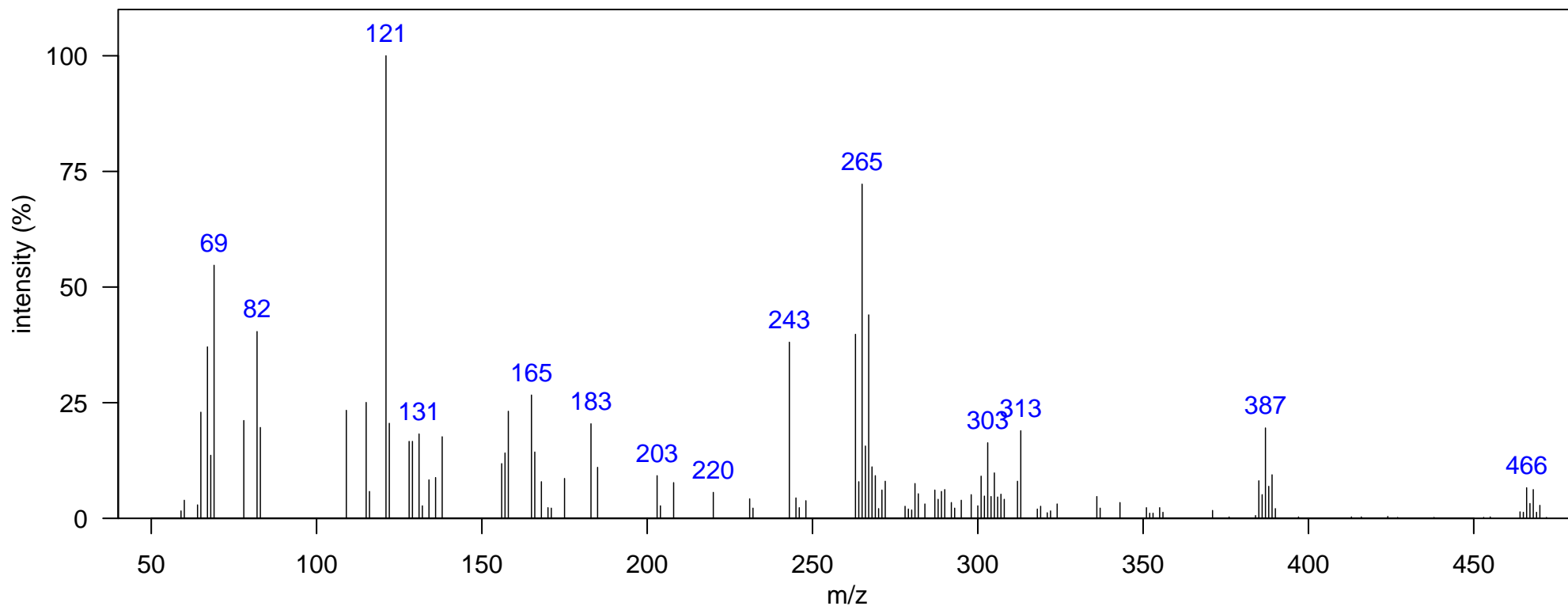
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: PBHD 3Br

Source: natural

Comment:

Identification: Authentic MS



m/z [Fragment]
385 [M-Br]⁺
464 M⁺

Name: PBHD 3Br 3

Class: PBHD

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1712.36, 2.171

Ecotype: coastal

Quantitative Ion m/z: 387

Instrument: GCxGC-TOF, EI, 70 eV

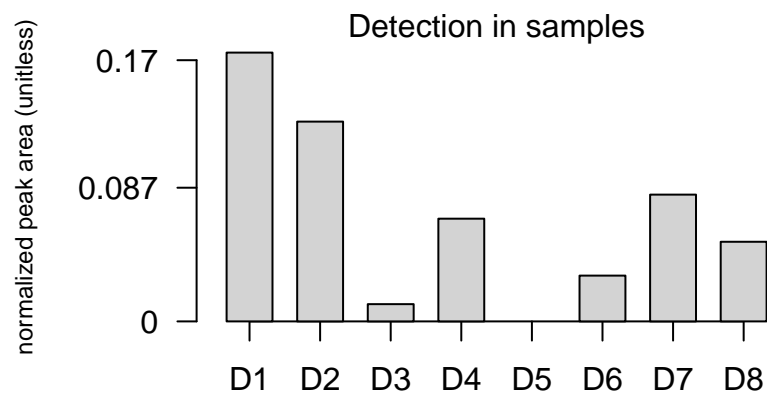
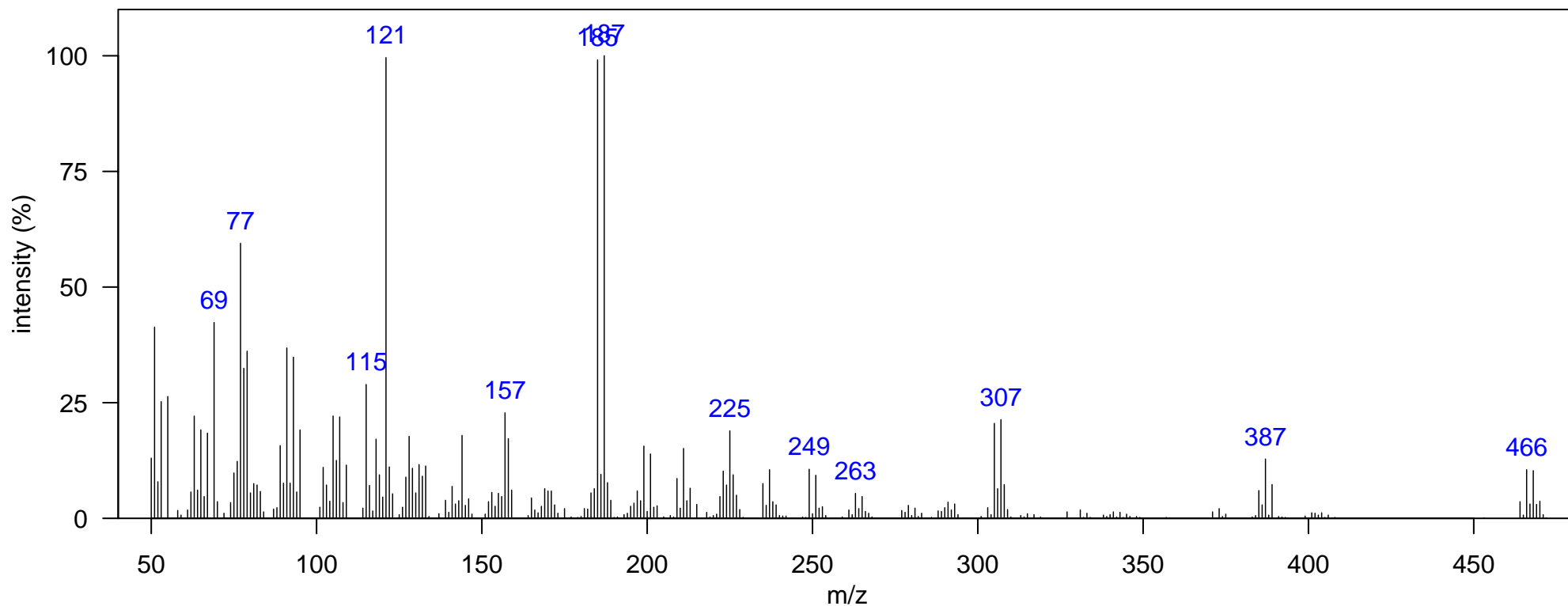
Atlantic Lib: PBHD 3Br

Elemental Formula: C<sub>16</sub>H<sub>19</sub>Br<sub>3</sub>O

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
385 [M-Br] <sup>+</sup>
464 M <sup>+</sup>

Name: PBHD 4Br

Class: PBHD

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1897.76, 2.911

Ecotype: coastal

Quantitative Ion m/z: 546

Elemental Formula: C<sub>16</sub>H<sub>18</sub>Br<sub>4</sub>O

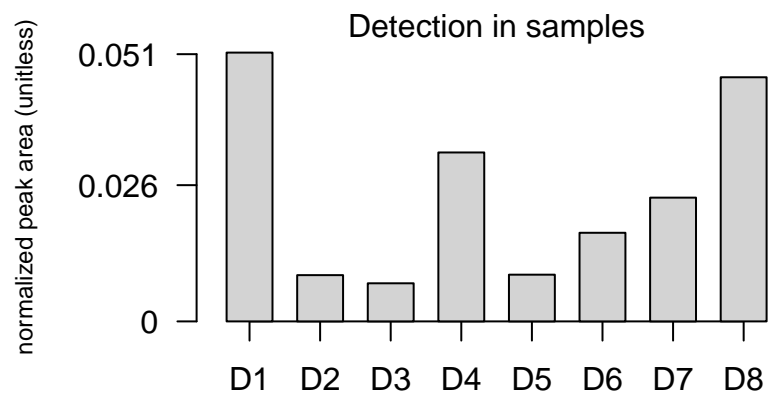
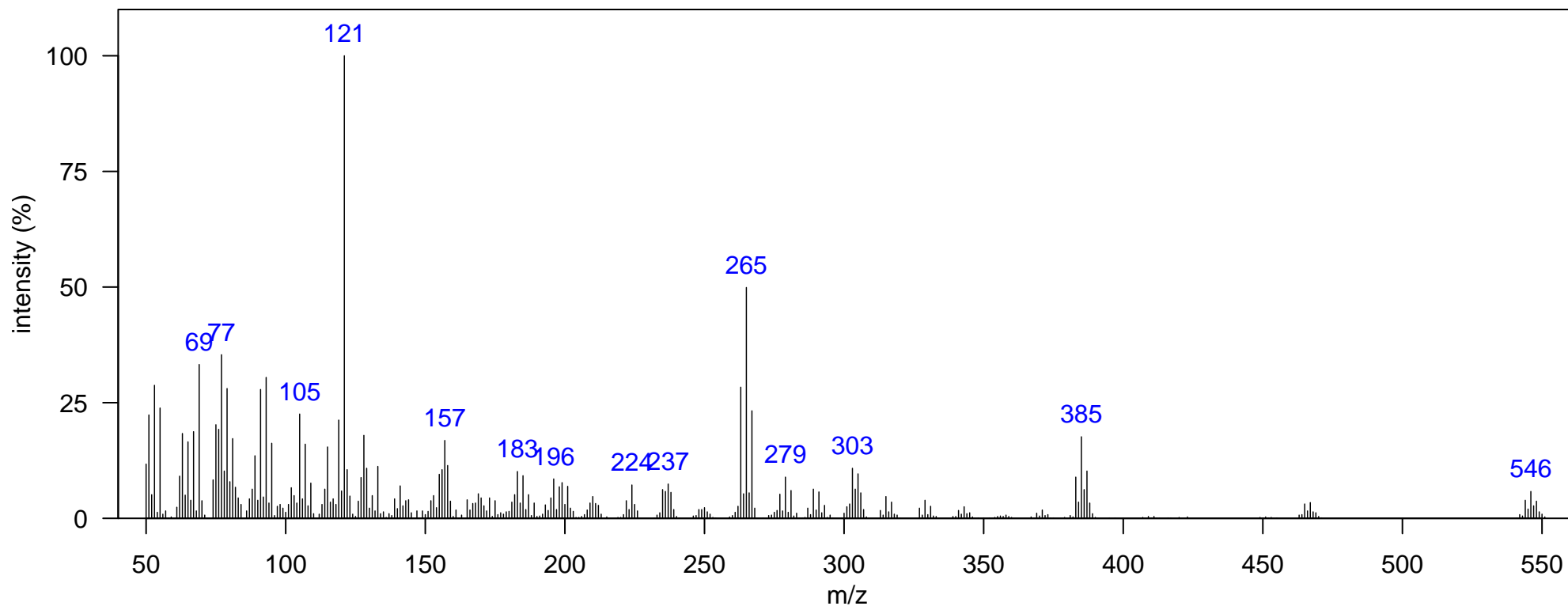
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: PBHD 4Br

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]

383 [M-HBr<sub>2</sub>]<sup>+</sup>

463 [M-Br]

542 M<sup>+</sup>

Name: 5-bromoindole

Class: Brominated indole

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1051.24, 1.346

Ecotype: coastal

Quantitative Ion m/z: 195

Elemental Formula: C<sub>8</sub>H<sub>6</sub>BrN

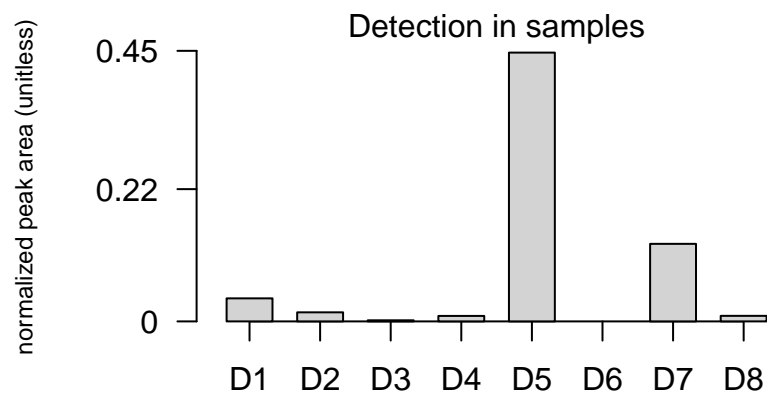
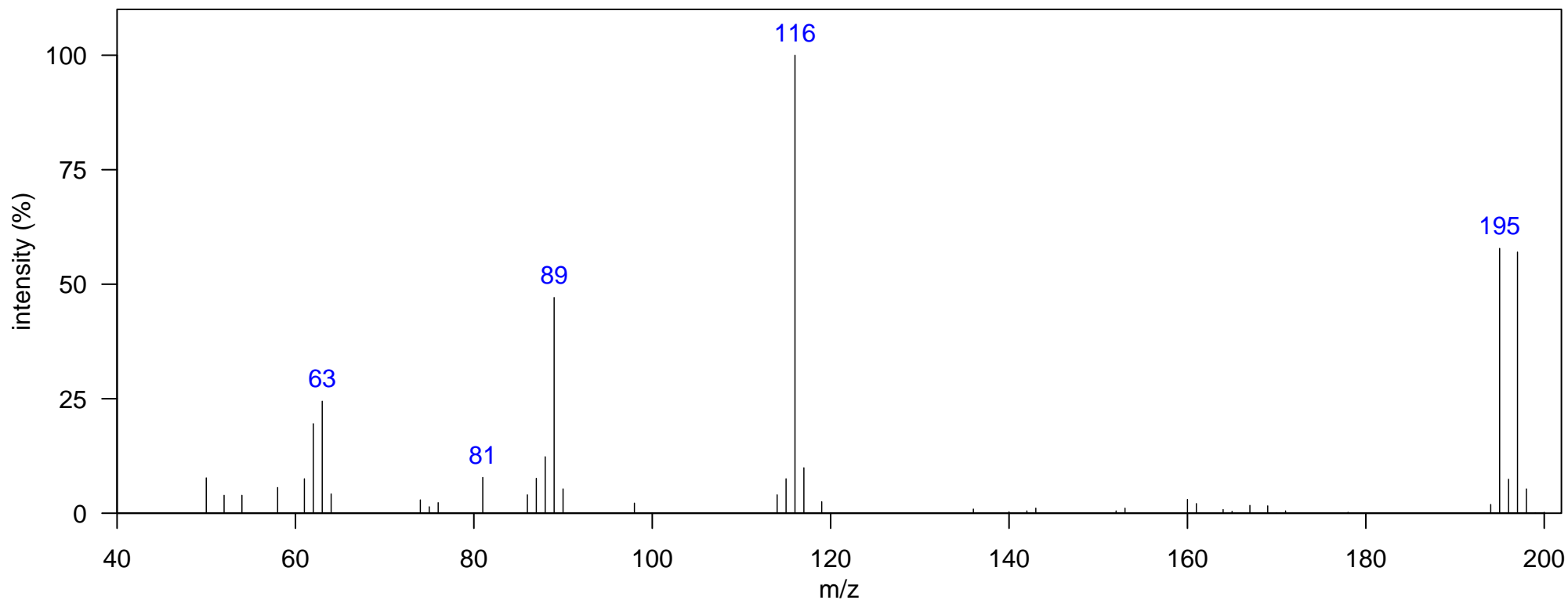
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: bromoindole (isomer)

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]

89 [M-Br-CN<sup>+</sup>H]

116 [M-Br]<sup>+</sup>

195 M<sup>+</sup>

Name: 4,6-dibromoindole

Class: Brominated indole

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1264.62, 1.505

Ecotype: coastal

Quantitative Ion m/z: 275

Elemental Formula: C<sub>8</sub>H<sub>5</sub>Br<sub>2</sub>N

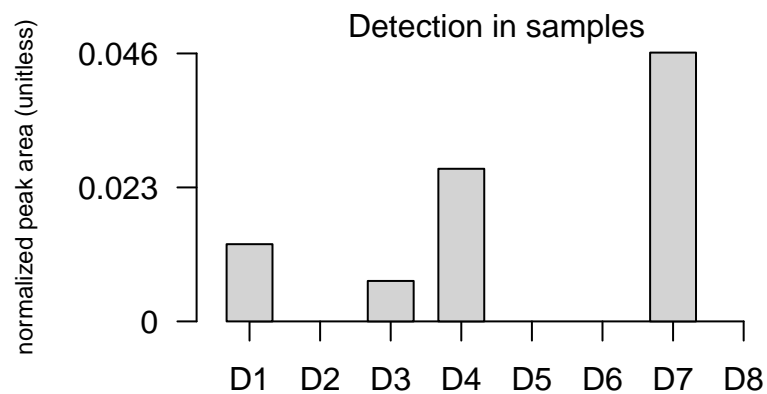
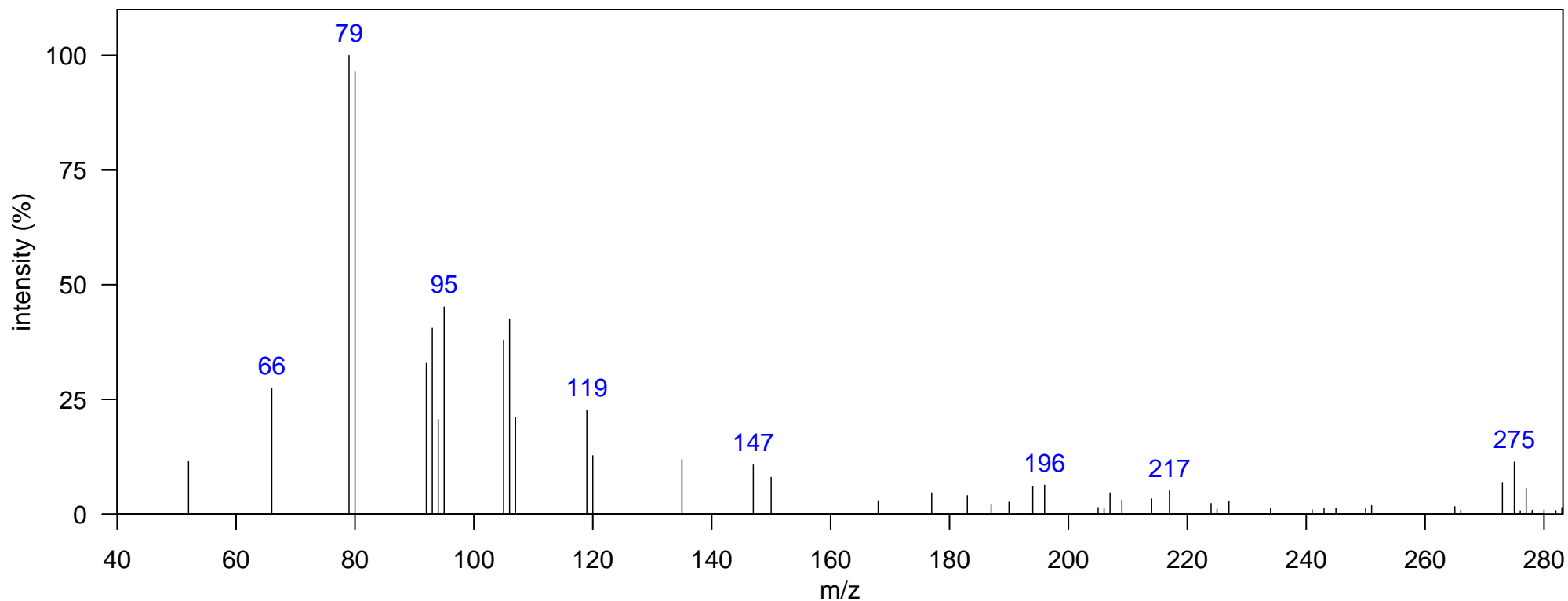
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: dibromoindole

Source: natural

Comment:

Identification: Authentic MS RT



m/z [Fragment]
194 [M-Br] <sup>+</sup>
273 M <sup>+</sup>

Name: 2,4,6-tribromo anisole

Class: Brominated anisole

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1040.75, 1.148

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

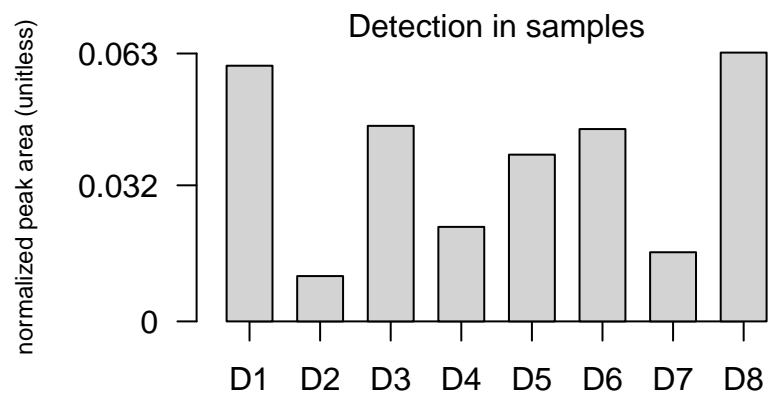
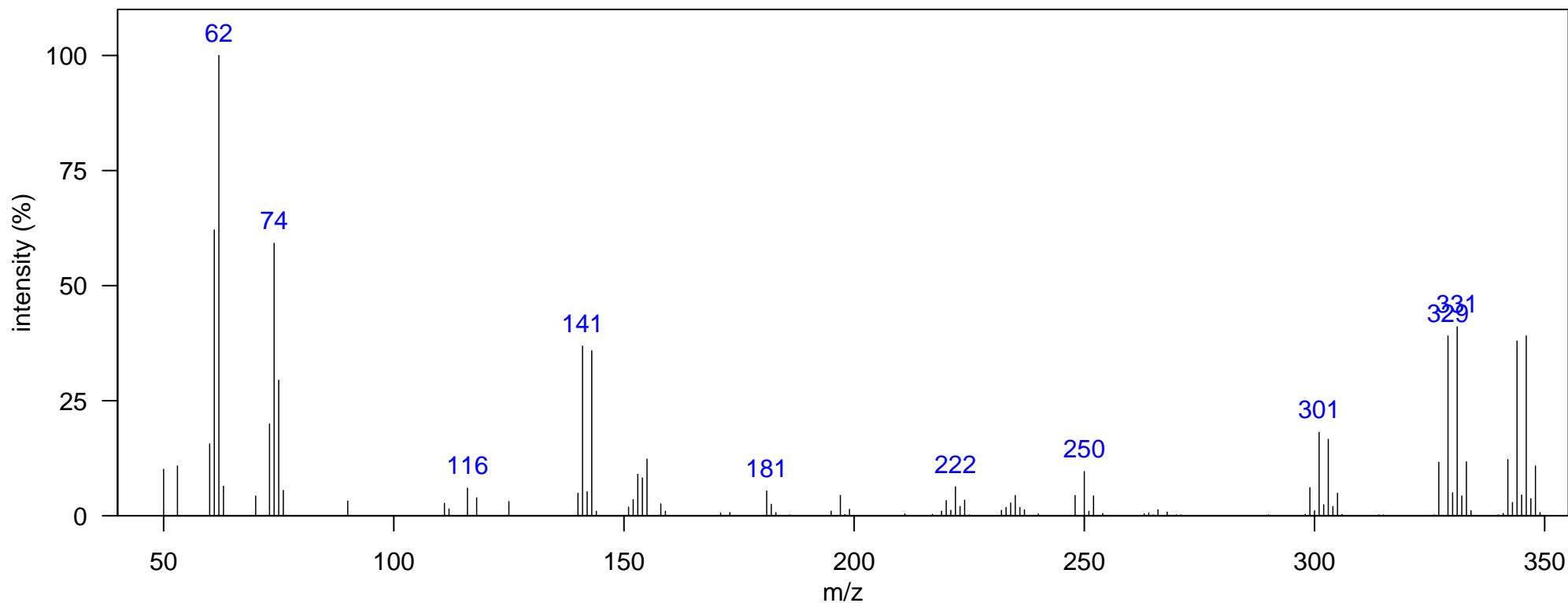
Quantitative Ion m/z: 331

Atlantic Lib: tribromoanisole

Elemental Formula: C<sub>7</sub>H<sub>5</sub>Br<sub>3</sub>O

Source: mixed

Identification: Authentic MS RT



m/z [Fragment]

299 [M-CH<sub>3</sub>-CO]<sup>+</sup>

327 [M-CH<sub>3</sub>]<sup>+</sup>

342 M<sup>+</sup>

Name: chlorinated PAH

Class: Chlorinated PAH

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1544.46, 1.016

Ecotype: coastal

Quantitative Ion m/z: 274

Instrument: GCxGC-TOF, EI, 70 eV

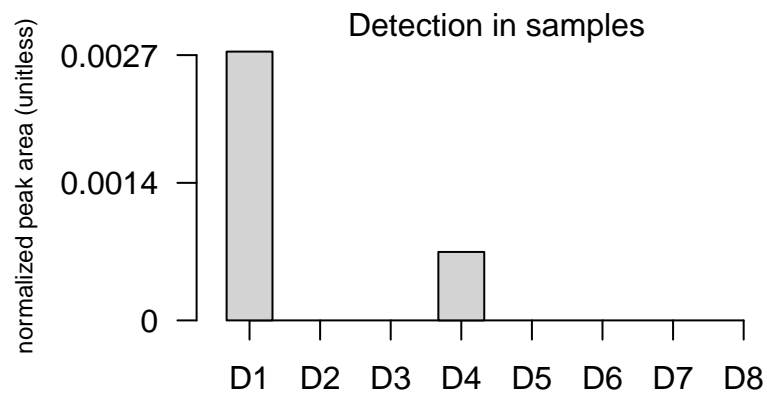
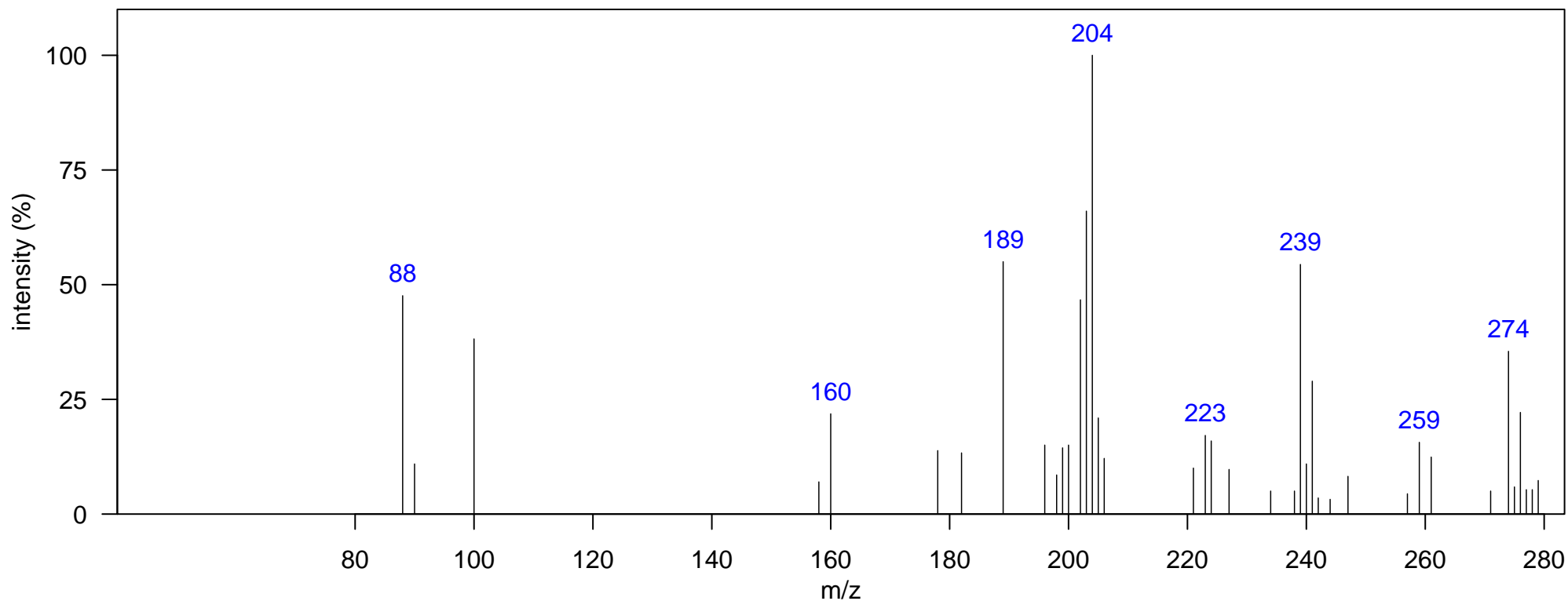
Atlantic Lib:

Elemental Formula: C<sub>16</sub>H<sub>12</sub>Cl<sub>2</sub>

Source: mixed

Identification: Authentic MS

Comment: Not 9,10 dichloromethylanthrance but likely an isomer



m/z [Fragment]
204 [M-Cl <sub>2</sub> ] <sup>+</sup>
239 [M-Cl] <sup>+</sup>
274 M <sup>+</sup>



Class: PBDf

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>2</sub>O

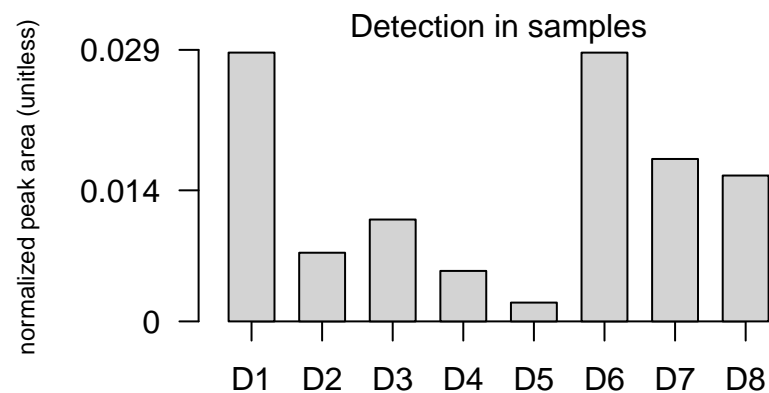
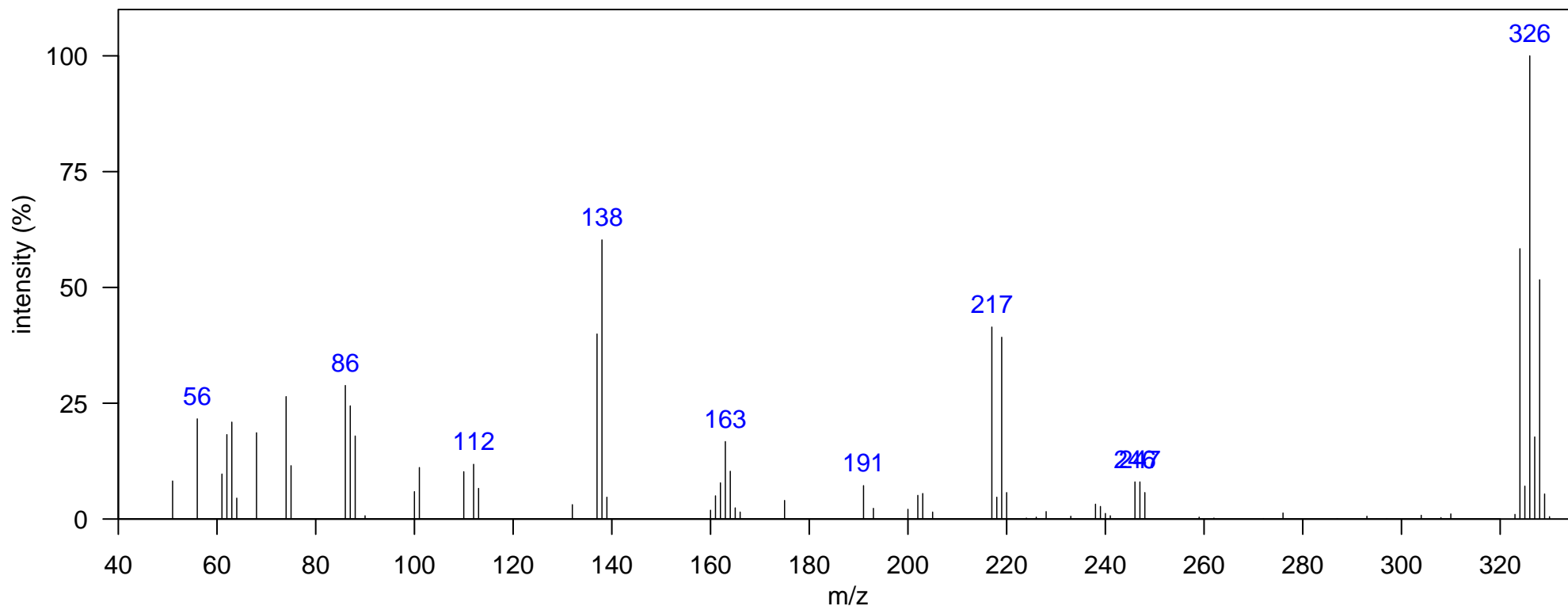
Quantitative Ion m/z: 328

Source: mixed

Atlantic Lib:

Identification: Authentic MS

Comment: not 2,8-dibromo dibenzofuran but likely an isomer



m/z [Fragment]

Name: dibromobenzofuran 2

Class: PBDF

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1642.4, 1.102

Ecotype: coastal

Quantitative Ion m/z: 328

Instrument: GCxGC-TOF, EI, 70 eV

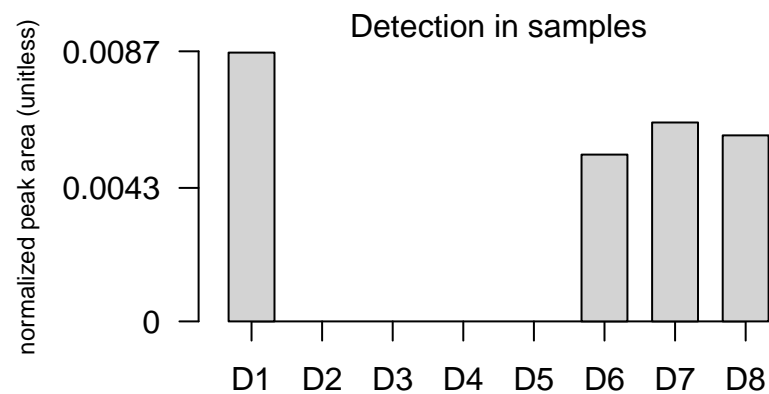
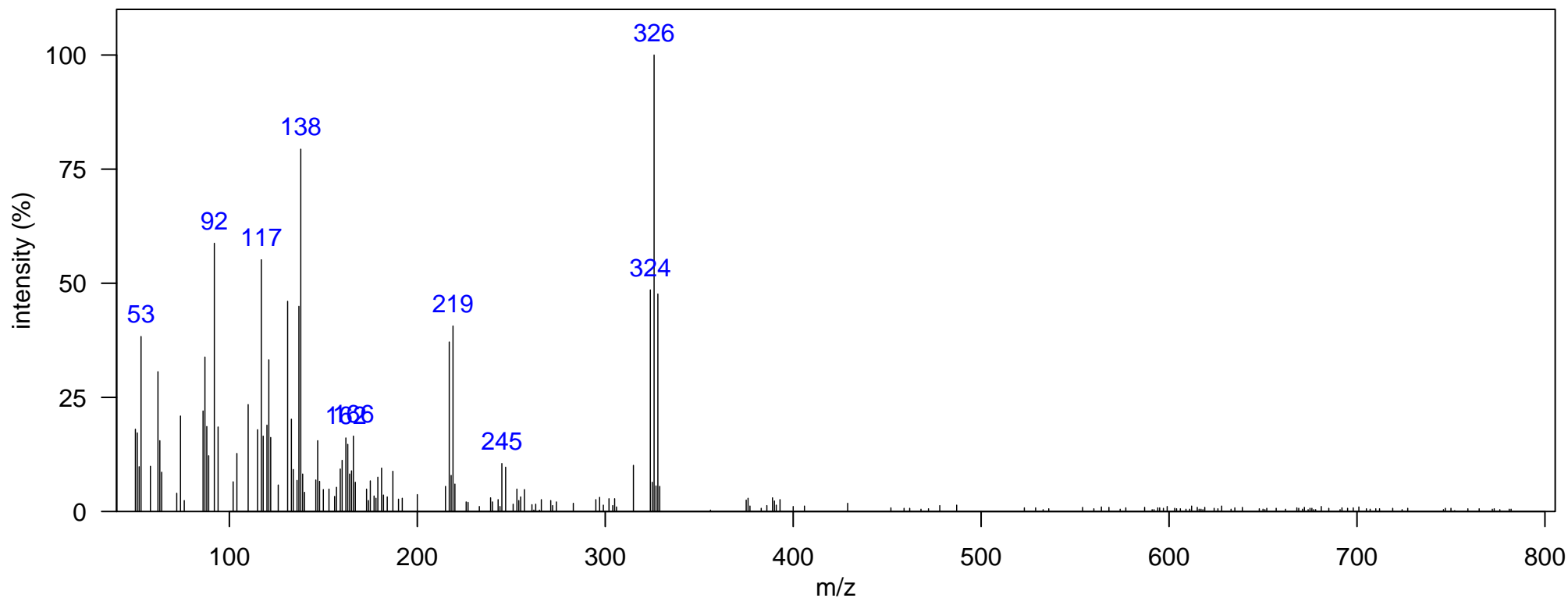
Atlantic Lib:

Elemental Formula:

Source: mixed

Identification: Authentic MS

Comment: not 2,8-dibromo dibenzofuran but likely an isomer



m/z [Fragment]

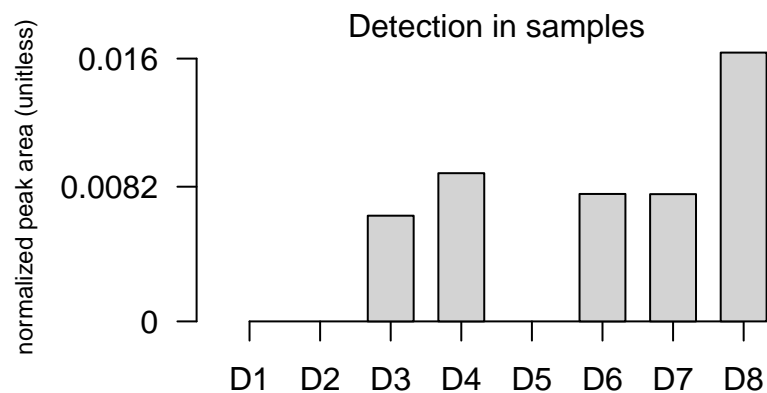
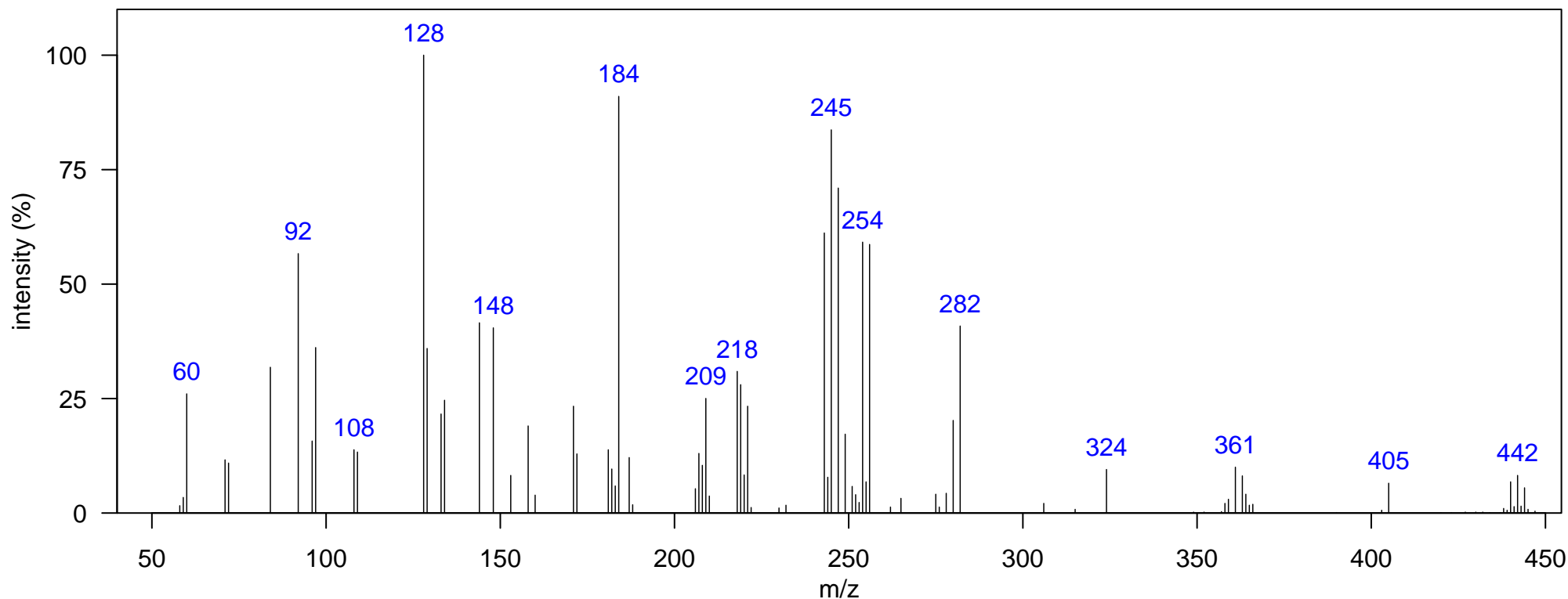
Name: PBCDE Br3Cl 1

Class: B/CDE

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1359.07, 1.32  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

Quantitative Ion m/z: 442  
Atlantic Lib: B/CDE isomer 1&2

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>3</sub>ClO  
Source: unknown  
Identification: Manual-Congener Group



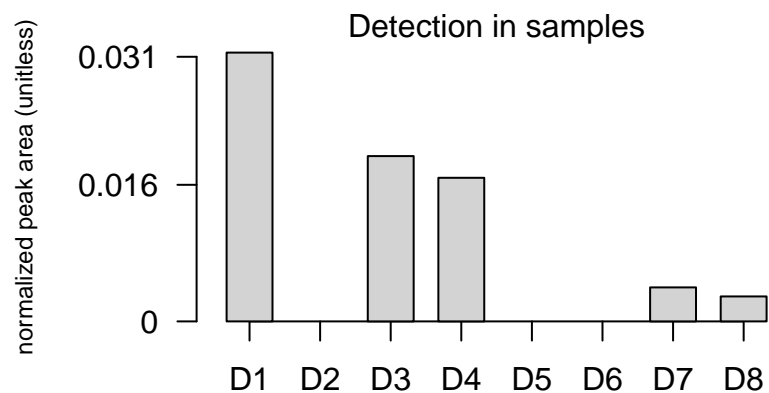
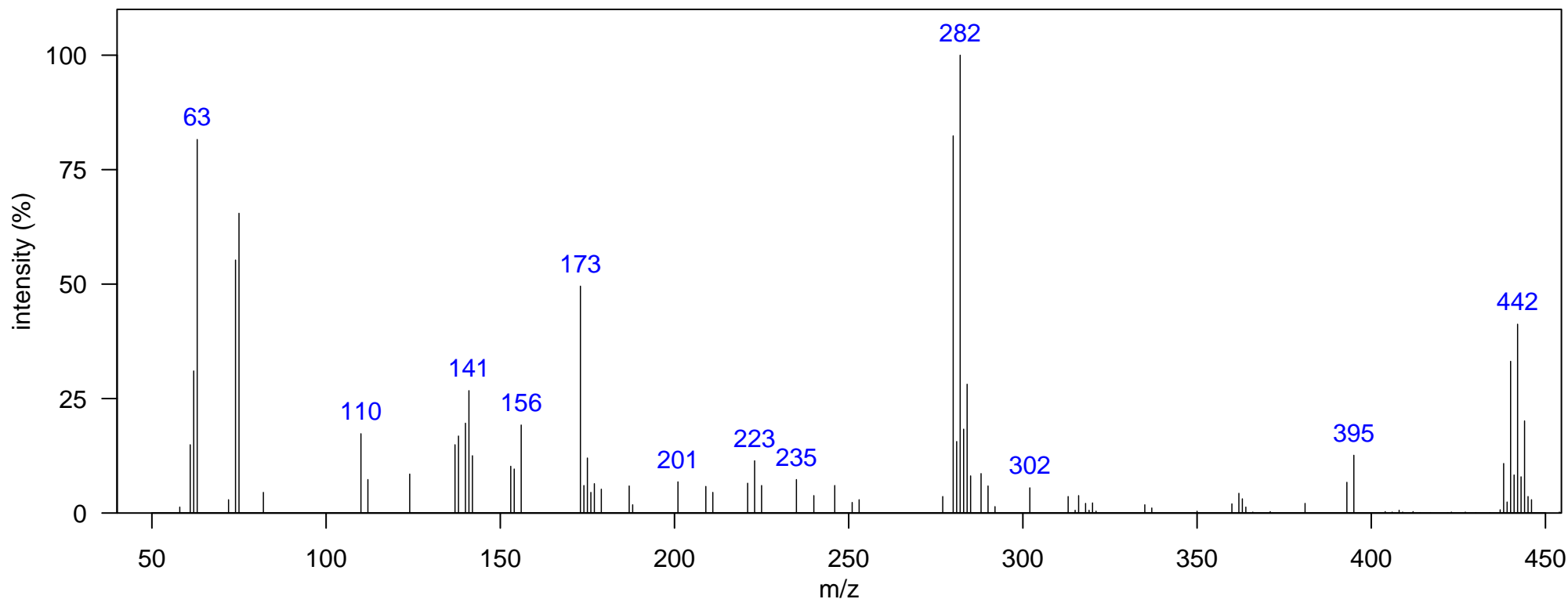
m/z [Fragment]
245 [H-Br <sub>2</sub> -Cl]
280 [M-Br <sub>2</sub> ] <sup>+</sup>
438 M <sup>+</sup>

Name: PBCDE Br3Cl 2

Class: B/CDE

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1478, 1.459  
Ecotype: coastal Quantitative Ion m/z: 442  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib: B/CDE isomer 1&2  
Comment:

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>3</sub>ClO  
Source: unknown  
Identification: Manual-Congener Group



m/z [Fragment]
280 [M-Br <sub>2</sub> ] <sup>+</sup>
438 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1484.99, 1.465

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

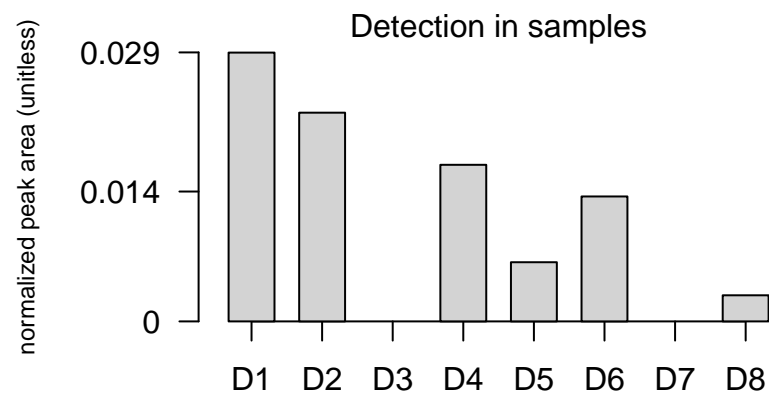
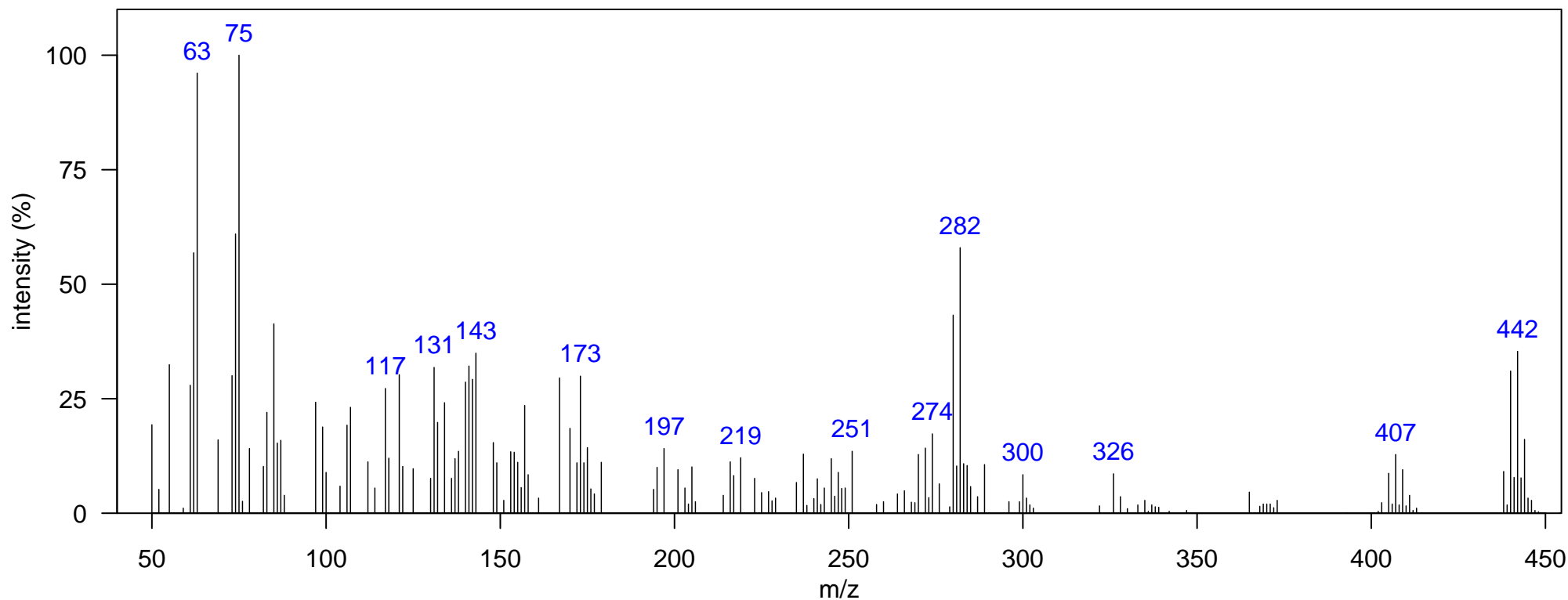
Quantitative Ion m/z: 442

Atlantic Lib: B/CDE isomer 1&amp;2

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Br<sub>3</sub>ClO

Source: unknown

Identification: Manual-Congener Group



m/z [Fragment]
280 [M-Br <sub>2</sub> ] <sup>+</sup>
438 M <sup>+</sup>

Name: MeOCDE 8Cl 1

Class: MeO-CDE

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1705.37, 1.888

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

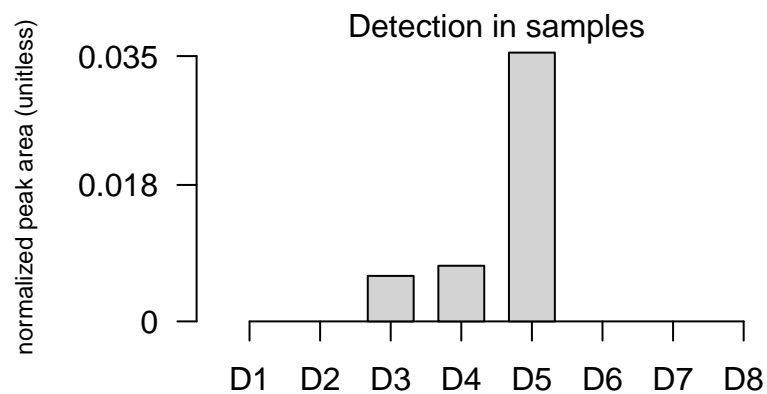
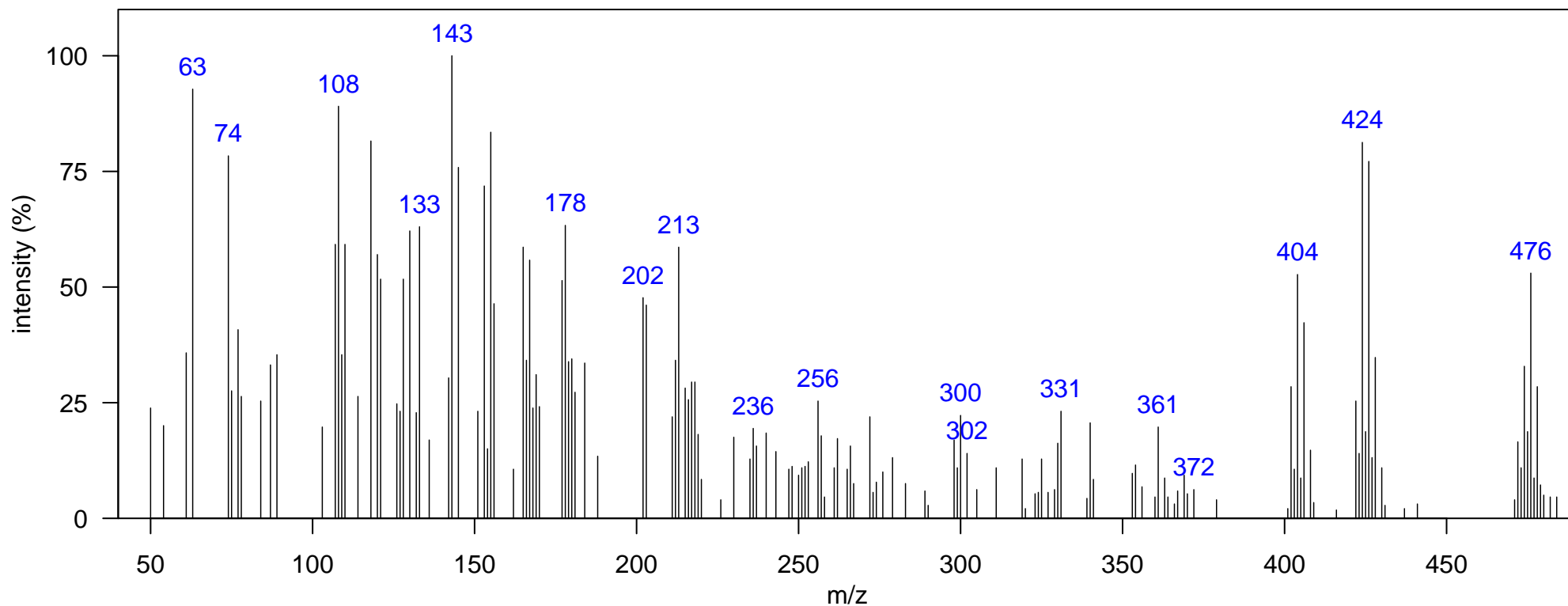
Quantitative Ion m/z: 476

Atlantic Lib: MeO-CDE 8Cl

Elemental Formula: C<sub>13</sub>H<sub>4</sub>Cl<sub>8</sub>O<sub>2</sub>

Source: unknown

Identification: Manual-Congener Group



m/z [Fragment]

402 [M-Cl<sub>2</sub>]<sup>+</sup>

422 [M-Cl-CH<sub>3</sub>]<sup>+</sup>

472 M<sup>+</sup>

Name: MeOCDE 8Cl 2

Class: MeO-CDE

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1820.8, 2.264

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

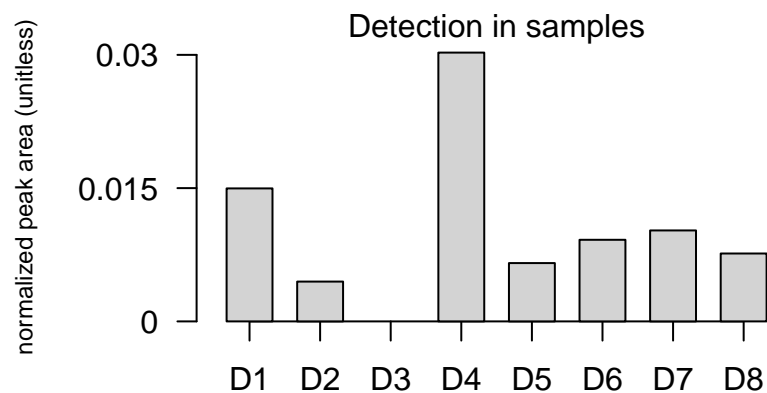
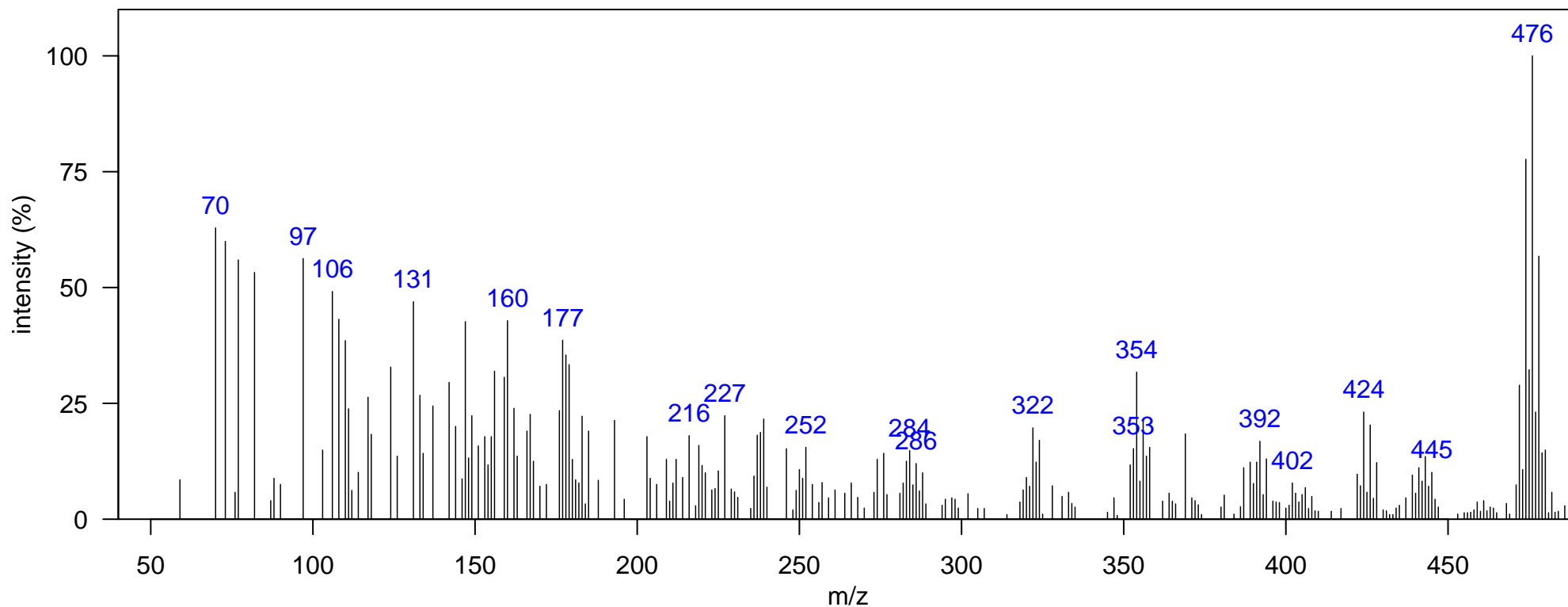
Quantitative Ion m/z: 476

Atlantic Lib: MeO-CDE 8Cl

Elemental Formula: C<sub>13</sub>H<sub>4</sub>Cl<sub>8</sub>O<sub>2</sub>

Source: unknown

Identification: Manual-Congener Group



m/z [Fragment]

402 [M-Cl<sub>2</sub>]<sup>+</sup>

422 [M-Cl-CH<sub>3</sub>]<sup>+</sup>

472 M<sup>+</sup>

Name: bromomethyl biphenyl

Class: Bromomethylbiphenyl

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1537.46, 0.898

Ecotype: offshore

Instrument: GCxGC-TOF, EI, 70 eV

Comment:

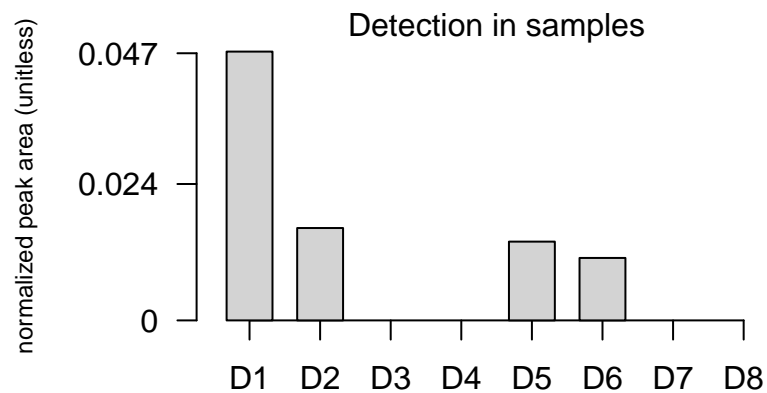
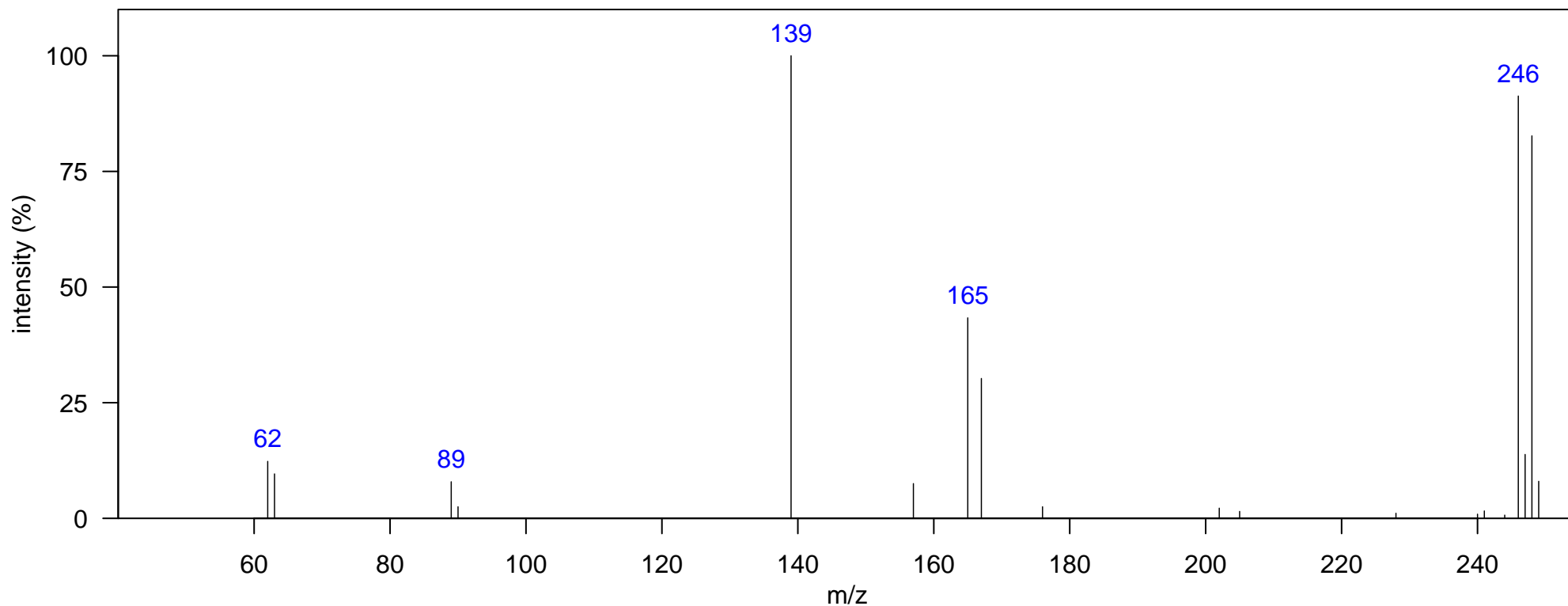
Quantitative Ion m/z: 248

Atlantic Lib:

Elemental Formula: C<sub>13</sub>H<sub>11</sub>Br

Source: unknown

Identification: Reference Database MS



m/z [Fragment]
165 [M-H2Br]+
167 [M-Br]+
246 M+



Name: benzonitrile 3Cl

Class: Trichloro benzonitrile

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1233.14, 1.175

Ecotype: offshore

Quantitative Ion m/z: 207

Instrument: GCxGC-TOF, EI, 70 eV

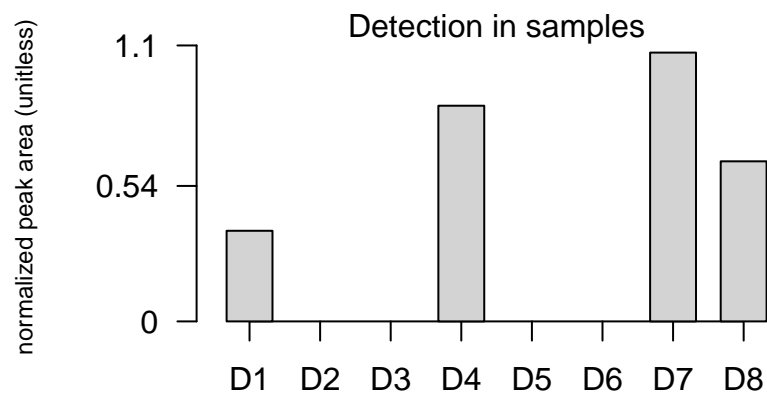
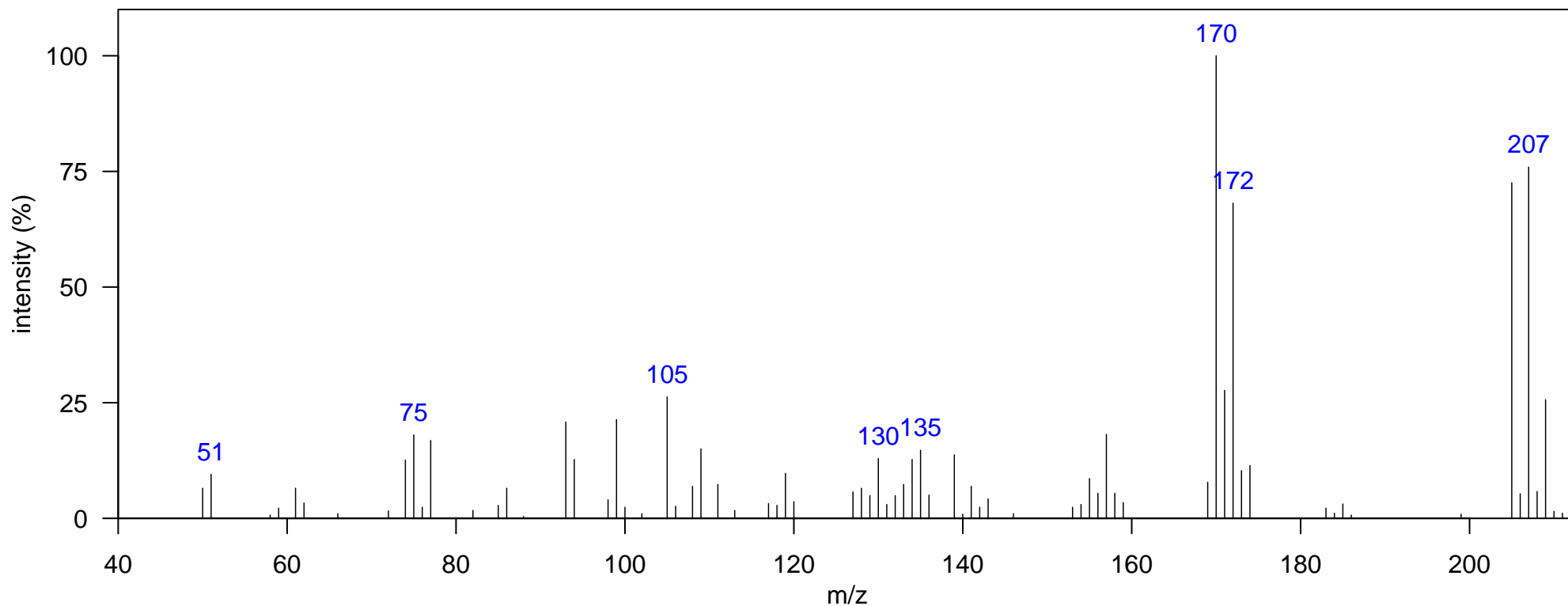
Atlantic Lib:

Elemental Formula: C<sub>7</sub>H<sub>2</sub>Cl<sub>3</sub>N

Source: unknown

Comment:

Identification: Reference Database MS



m/z [Fragment]
170 [M-Cl] <sup>+</sup>
205 M <sup>+</sup>

Name: chlorobenzaldehyde

Class: Chlorobenzaldehyde

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 652.47, 1.043

Ecotype: offshore

Quantitative Ion m/z: 139

Instrument: GCxGC-TOF, EI, 70 eV

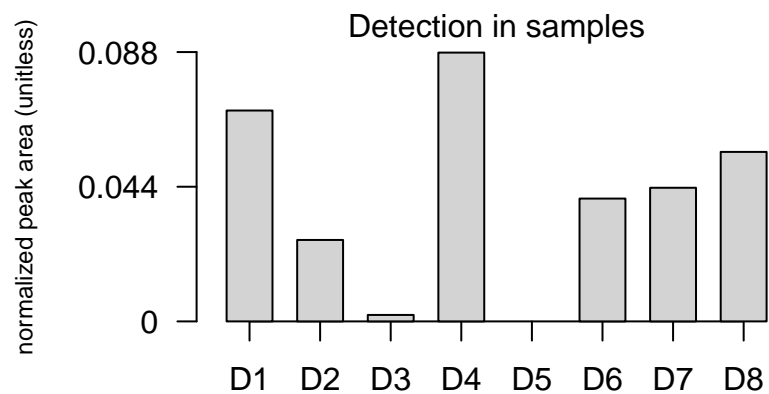
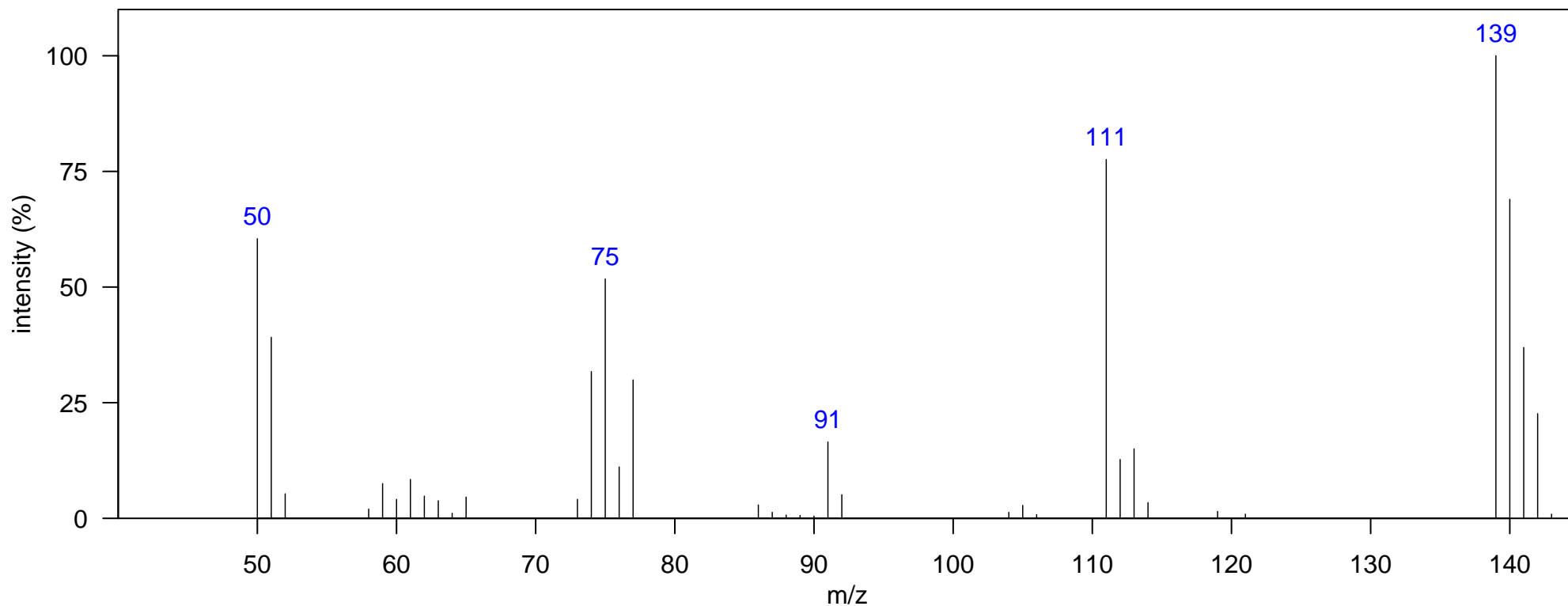
Atlantic Lib:

Elemental Formula: C<sub>7</sub>H<sub>5</sub>ClO

Source: unknown

Comment:

Identification: Reference Database MS



m/z [Fragment]
111 [M-CO] <sup>+</sup>
139 [M-H] <sup>+</sup>

Class: Unknown-1

Elemental Formula: C<sub>10</sub>H<sub>13</sub>Cl<sub>3</sub>

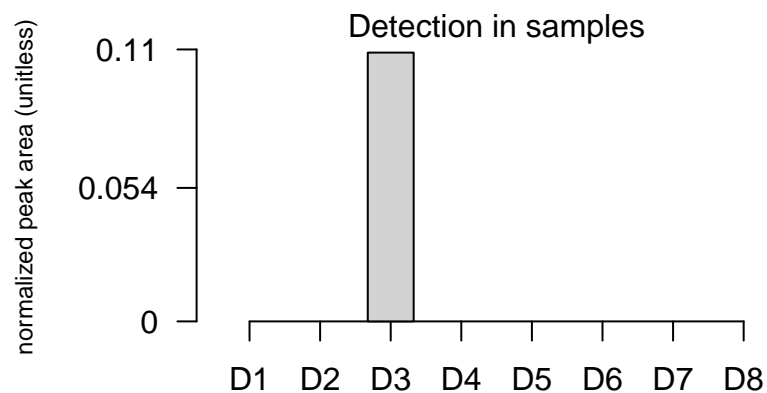
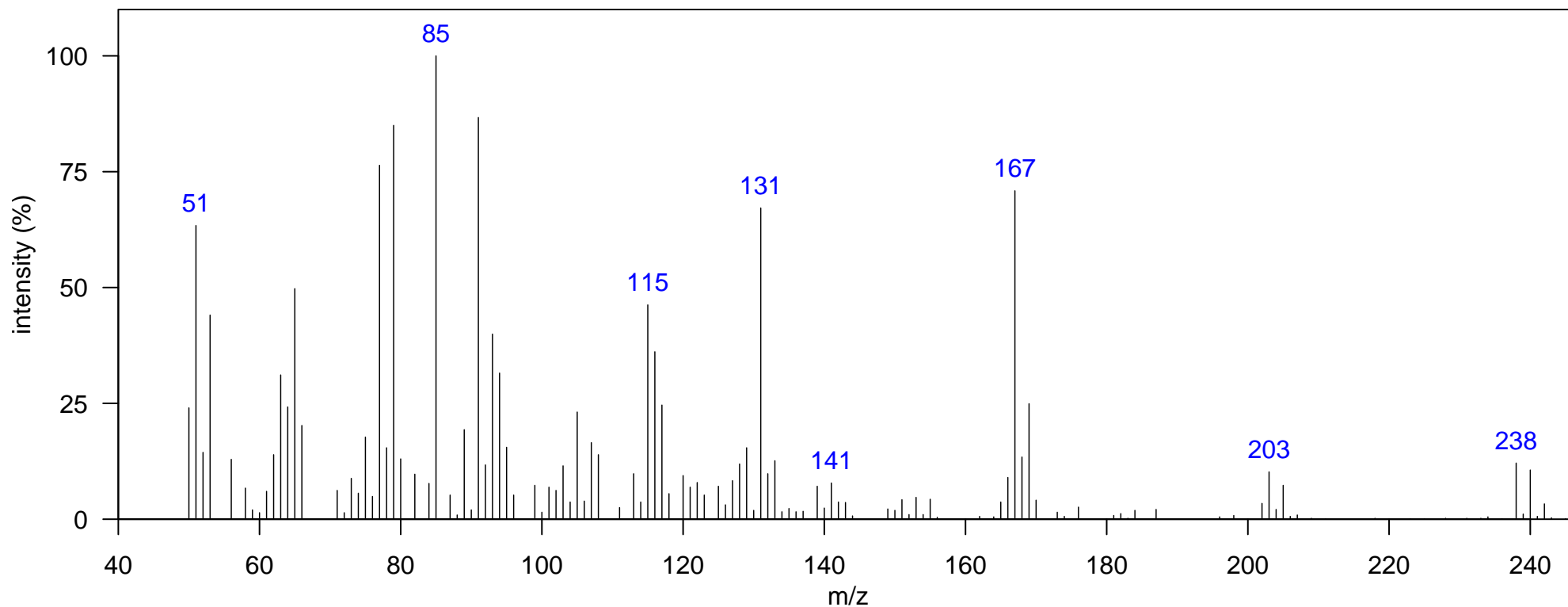
Quantitative Ion m/z: 167

Source: unknown

Atlantic Lib:

Identification:

Comment: sharing common m/z ions and the pattern. Could be chlordanes/toxaphene related



m/z [Fragment]

Class: Unknown-1

Elemental Formula: C<sub>10</sub>H<sub>13</sub>Cl<sub>3</sub>

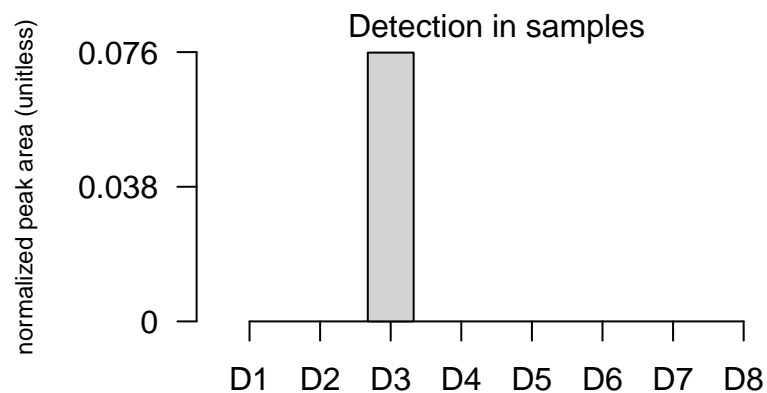
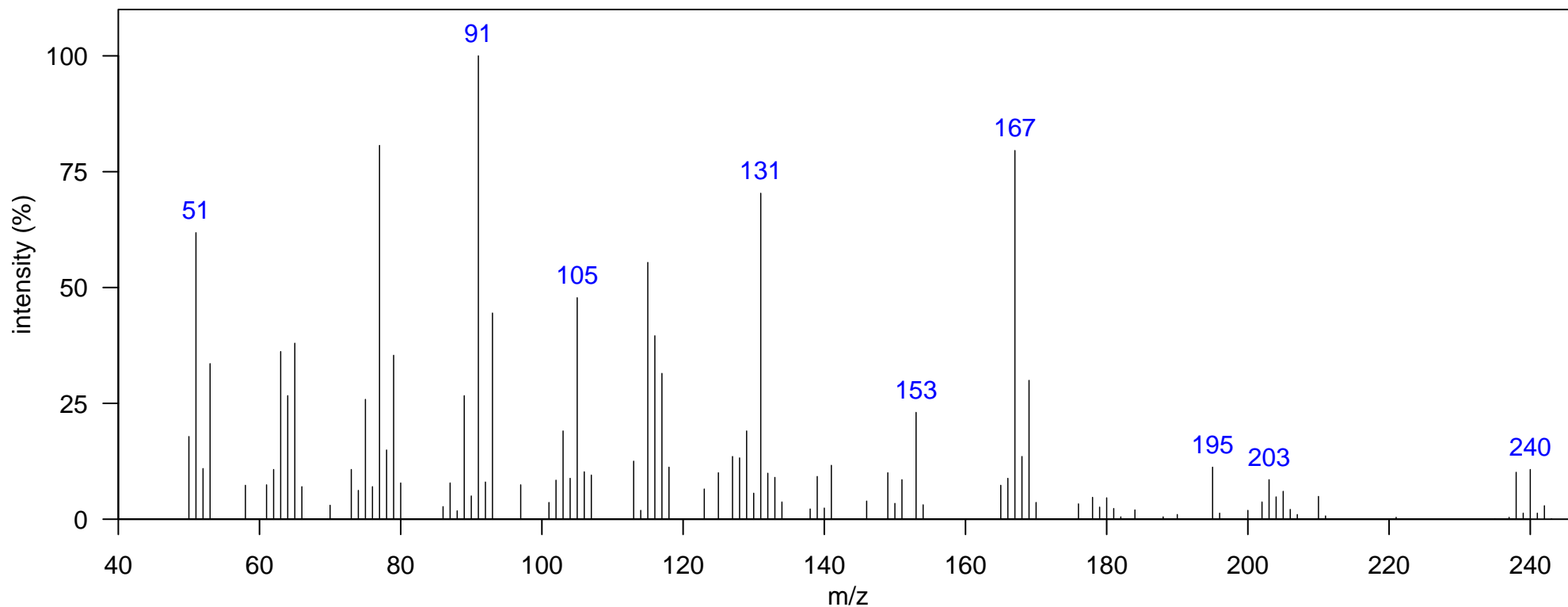
Quantitative Ion m/z: 167

Source: unknown

Atlantic Lib:

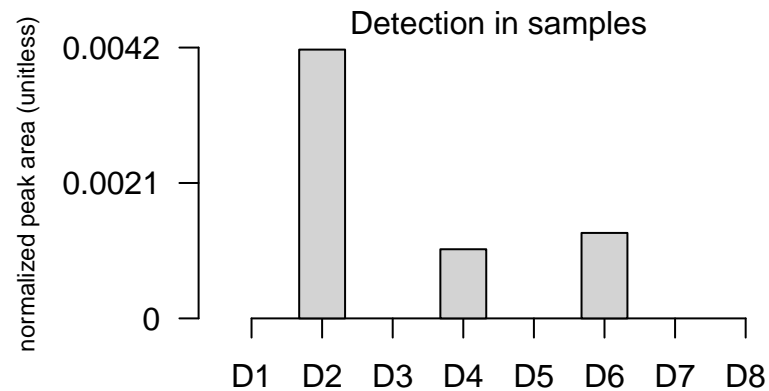
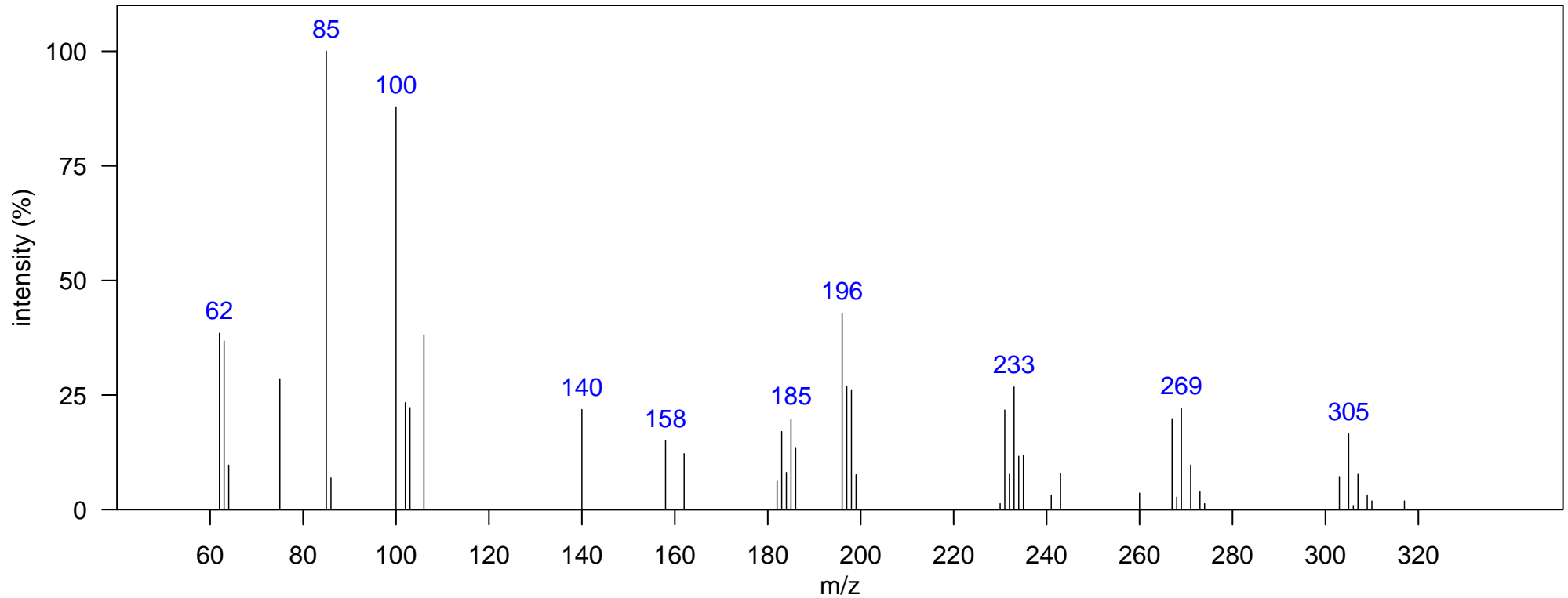
Identification:

Comment: sharing common m/z ions and the pattern. Could be chlordane/toxaphene related



m/z [Fragment]

Comment: sharing common m/z ions and the pattern. Could be chlordane/toxaphene related



m/z [Fragment]

Class: Unknown-1

Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>6</sub>

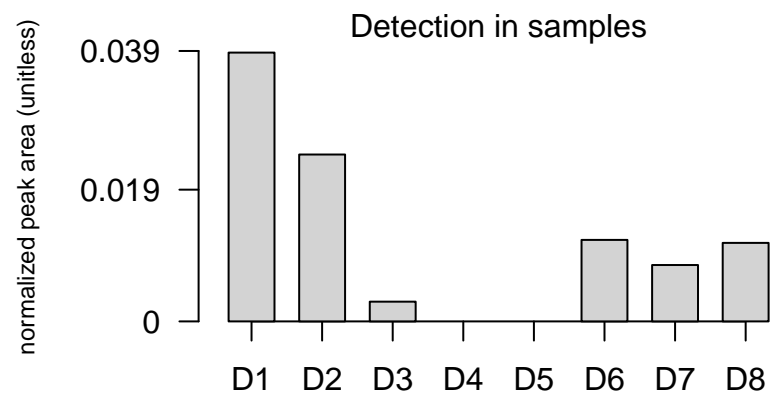
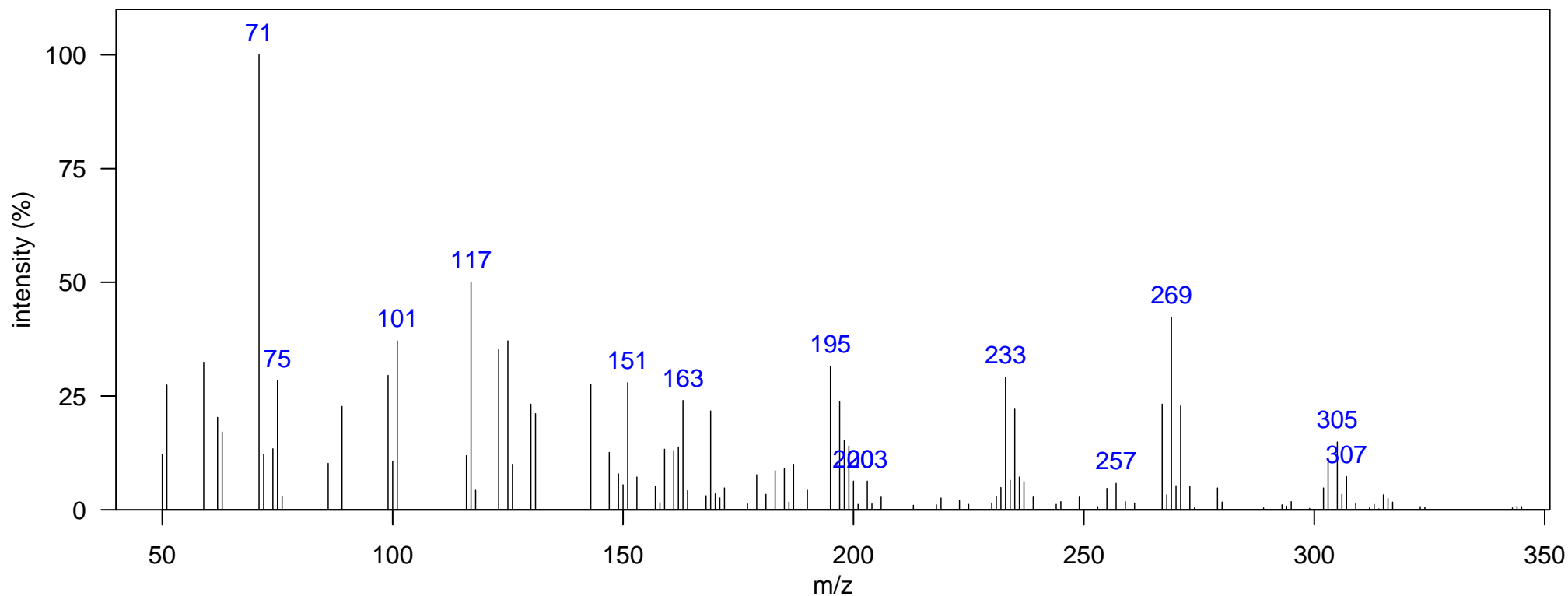
Quantitative Ion m/z: 269

Source: unknown

Atlantic Lib:

Identification:

Comment: sharing common m/z ions and the pattern. Could be chlordane/toxaphene related



m/z [Fragment]

Elemental Formula: C10H9Cl5

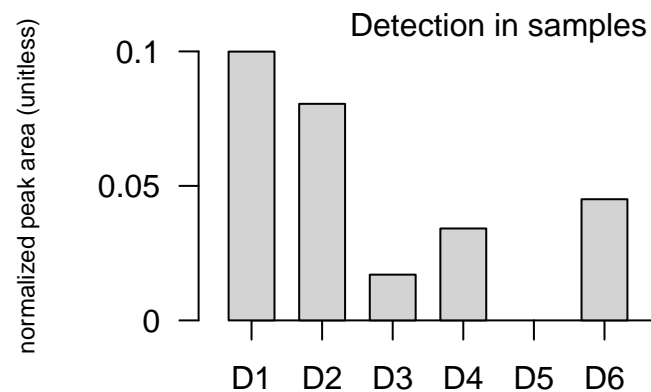
Quantitative Ion m/z: 233

Source: unknown

Atlantic Lib:

Identification:

Comment: sharing common m/z ions and the pattern. Could be chlordanes/toxaphene related



m/z [Fragment]

Elemental Formula: C10H8Cl6

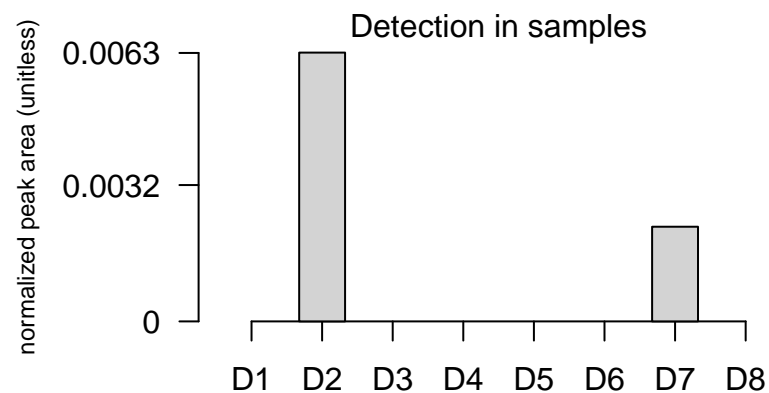
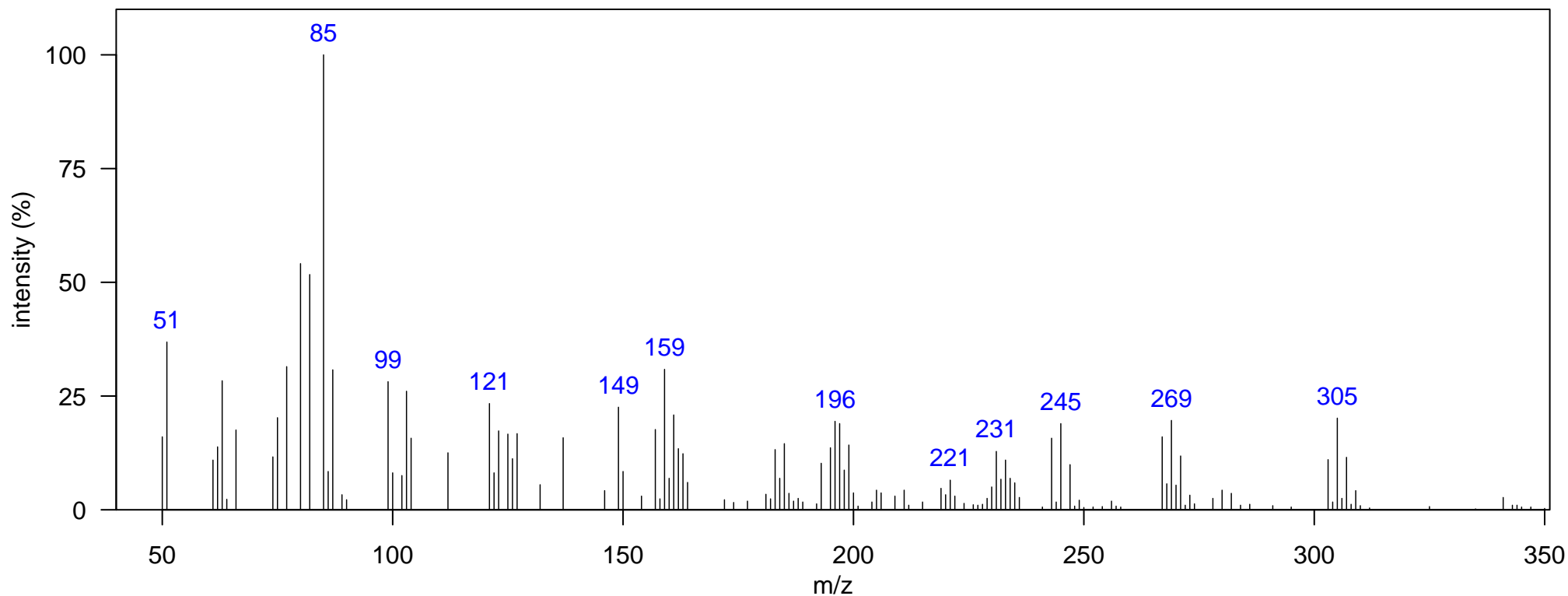
Quantitative Ion m/z: 305

Source: unknown

Atlantic Lib:

Identification:

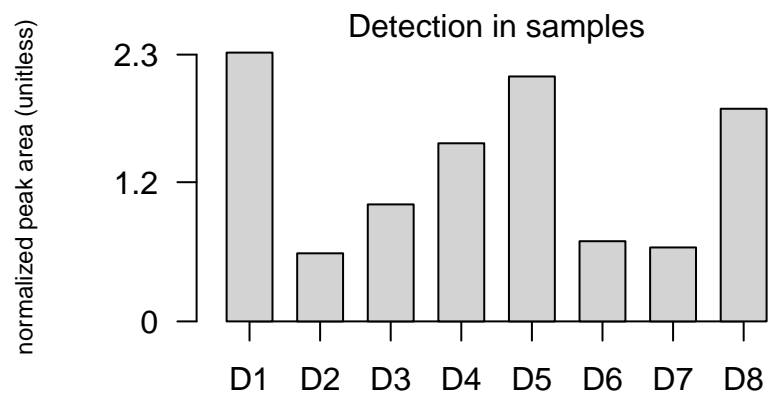
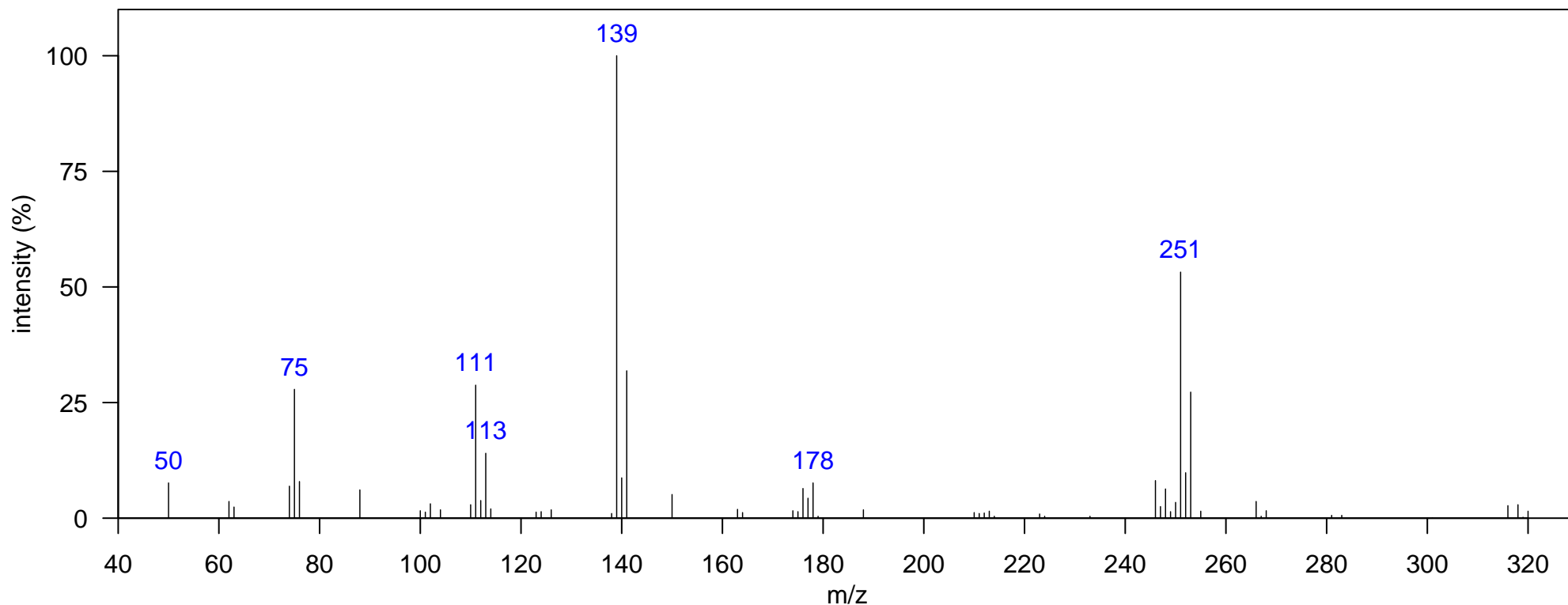
Comment: sharing common m/z ions and the pattern. Could be chlordane/toxaphene related



m/z [Fragment]



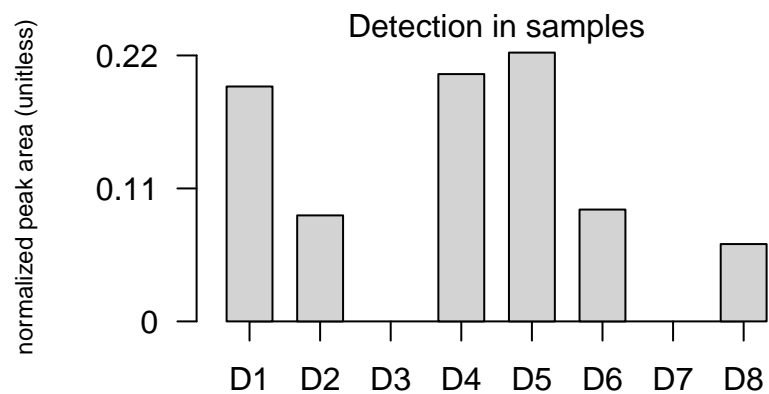
Comment: NIST ID is chloropropylate. sharing common m/z ions and the pattern/could be DDT related metabolites



m/z [Fragment]

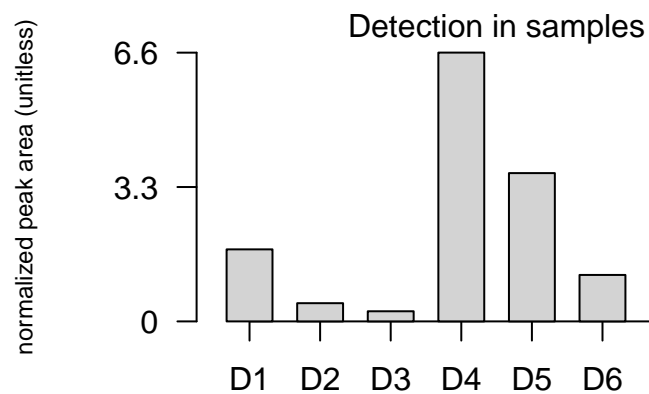
Class: Unknown-2

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>O  
Source: unknown  
Identification: Authentic MS



m/z [Fragment]

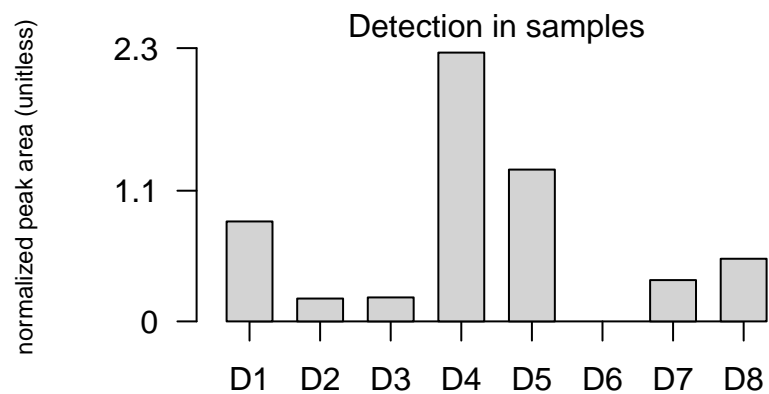
Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>O  
Source: unknown  
Identification: Authentic MS



m/z [Fragment]

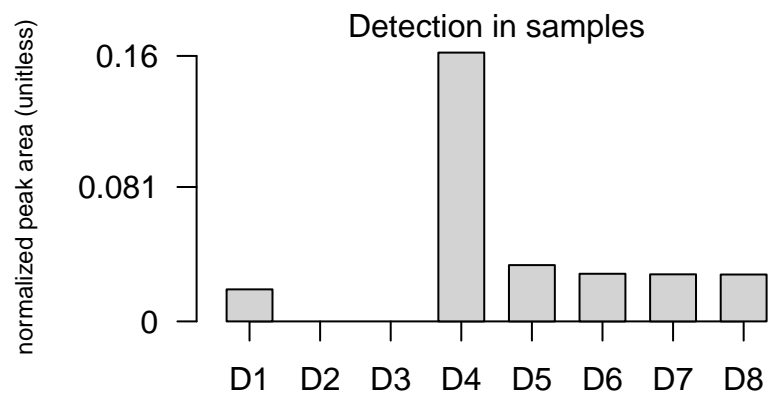
Class: Unknown-2

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>O  
Source: unknown  
Identification: Authentic MS



m/z [Fragment]

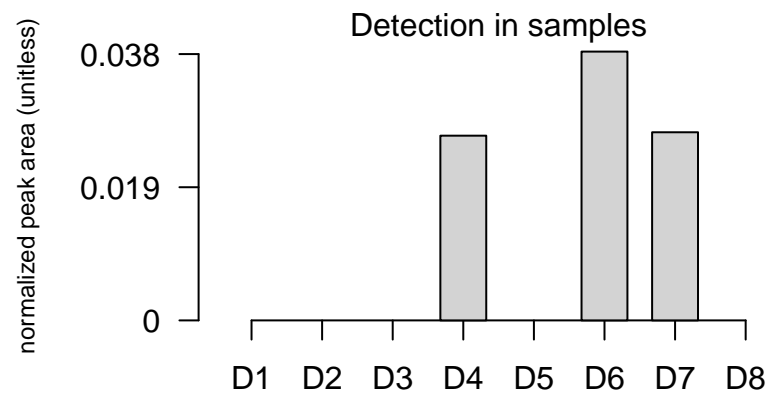
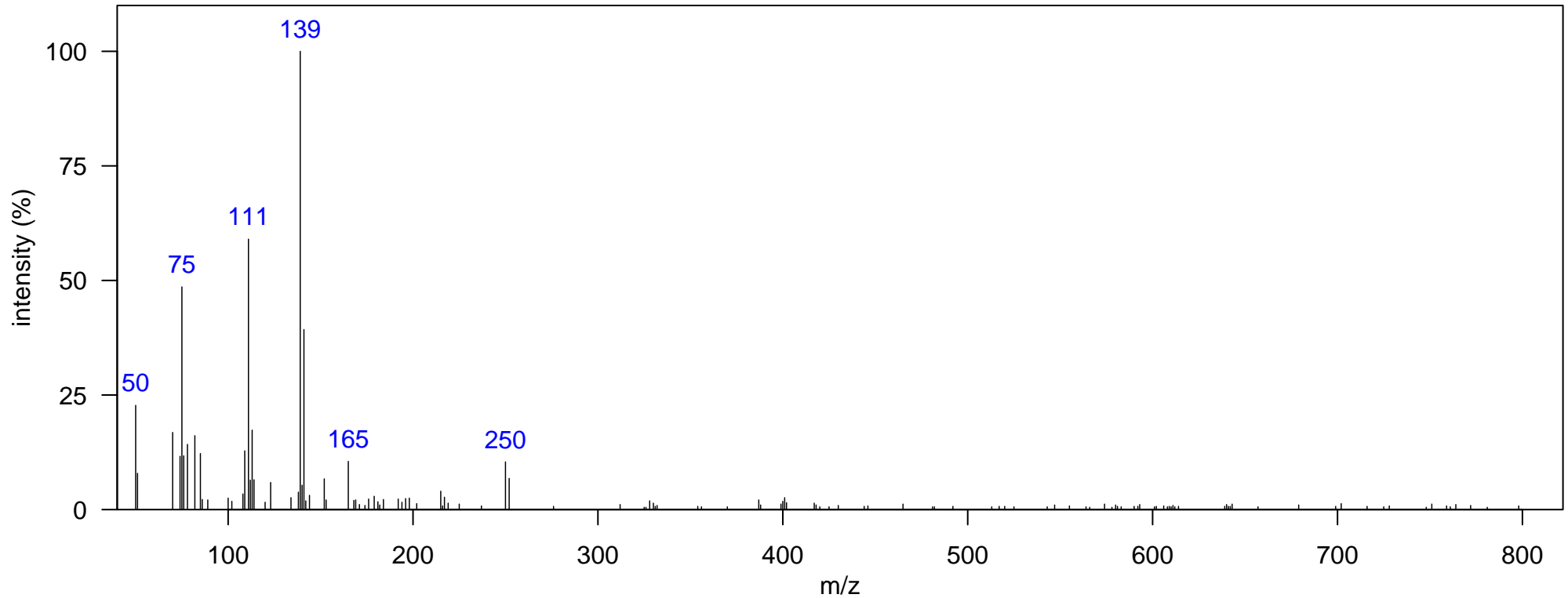
Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown-2

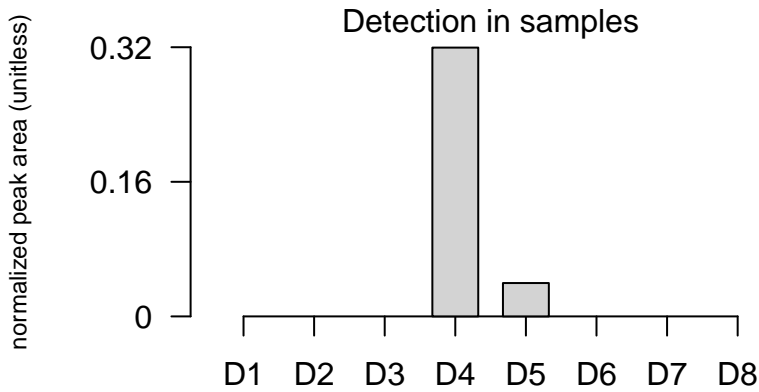
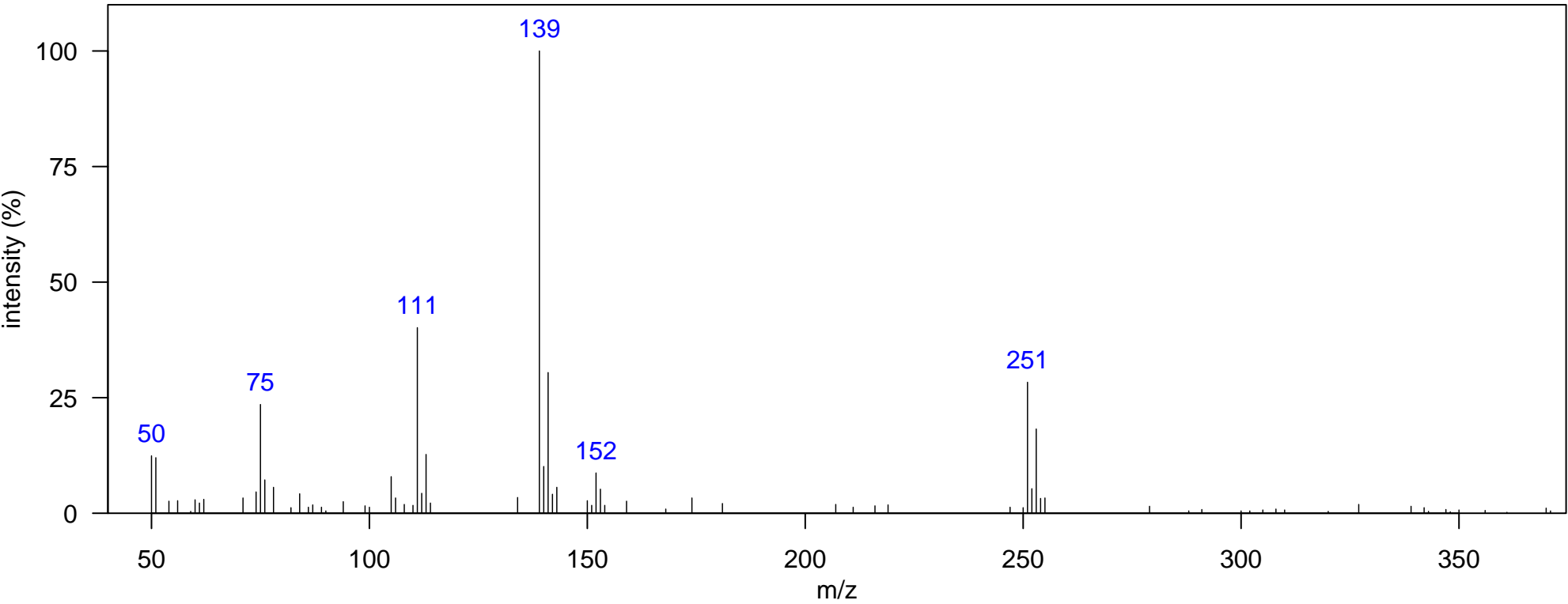
Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]
----------------

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1736.85, 2.099  
Ecotype: offshore Quantitative Ion m/z: 139  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib:  
Comment: Hypothesized TCPMe.

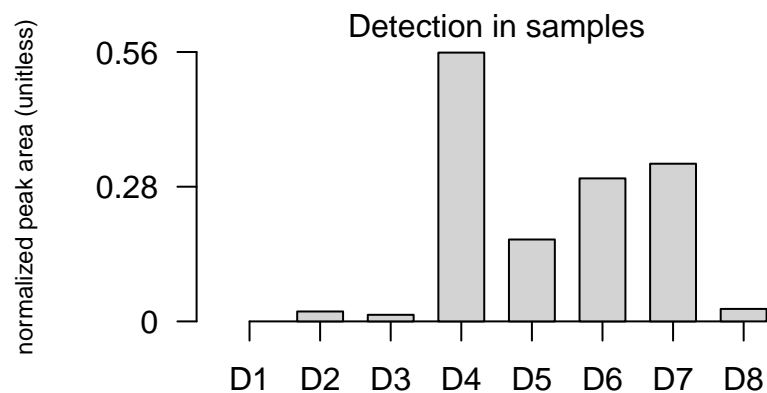
Elemental Formula: C19H13Cl3O  
Source: unknown  
Identification: Authentic MS



m/z [Fragment]

Class: Unknown-2

Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>O  
Source: unknown  
Identification:

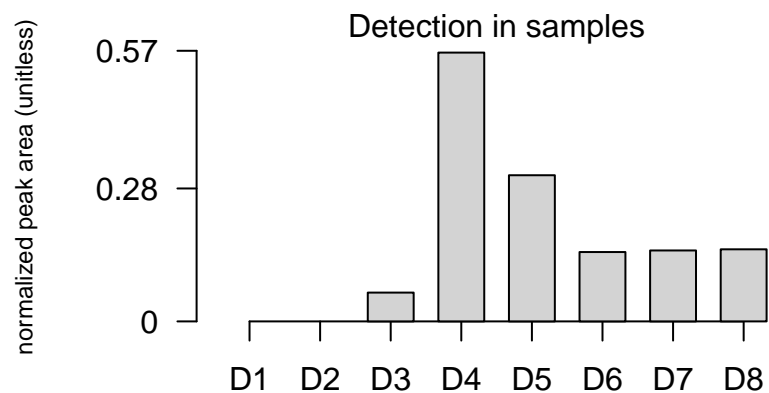


m/z [Fragment]



Class: Unknown-2

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown-2

Elemental Formula:

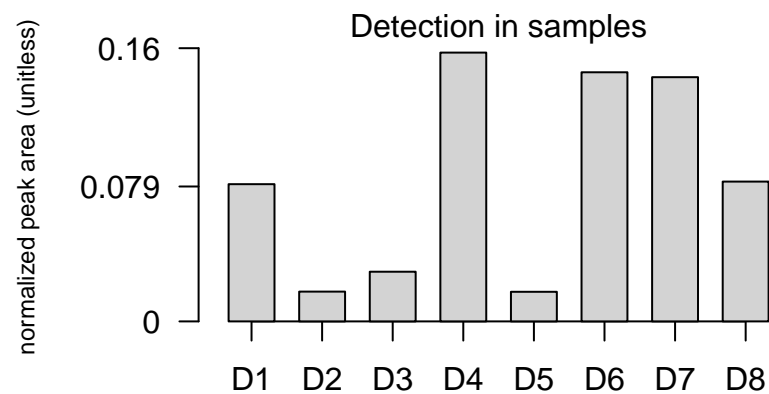
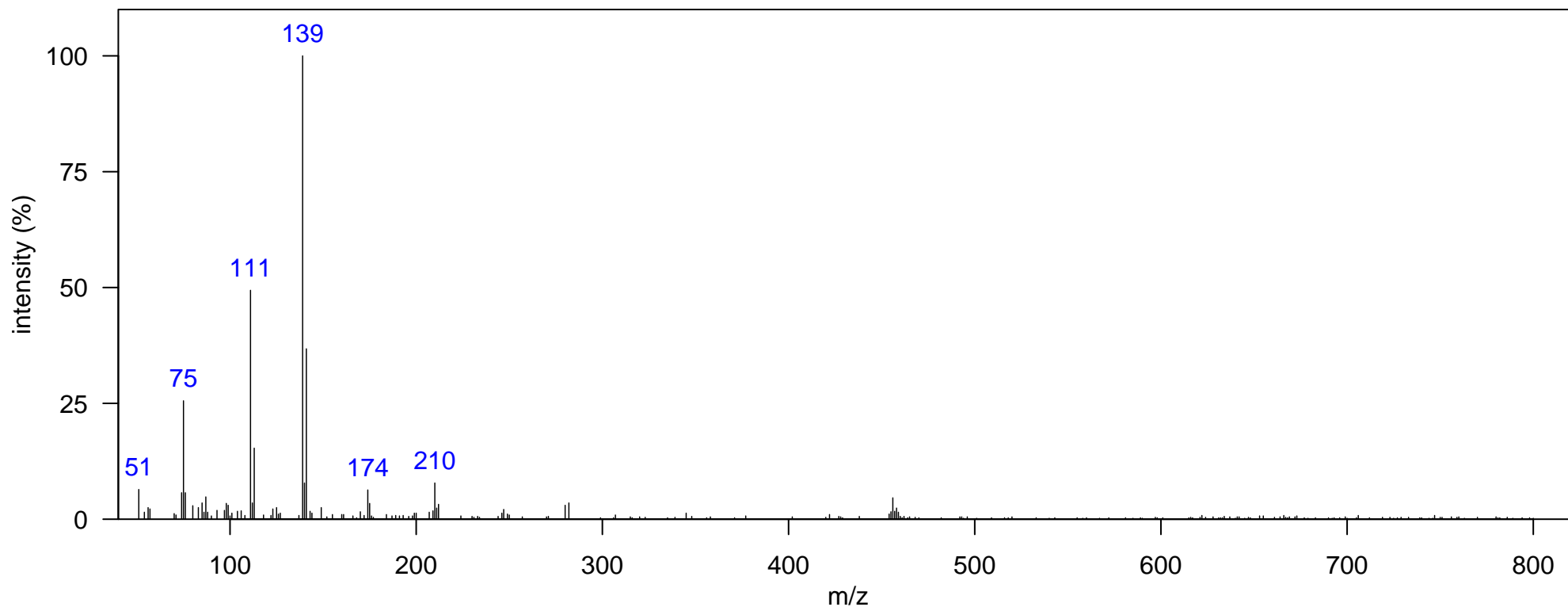
Quantitative Ion m/z: 139

Source: unknown

Atlantic Lib:

Identification:

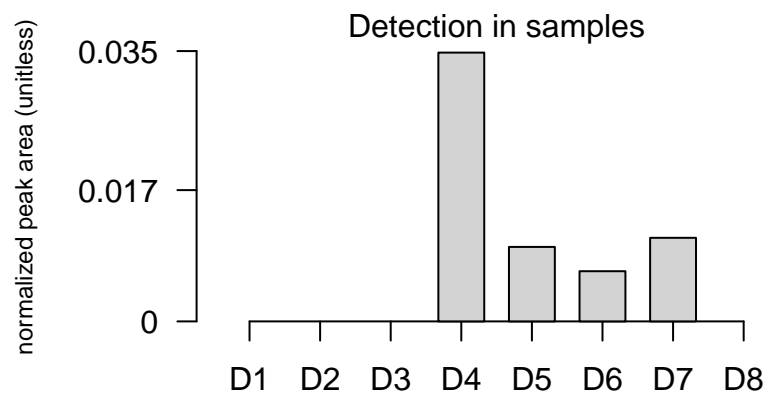
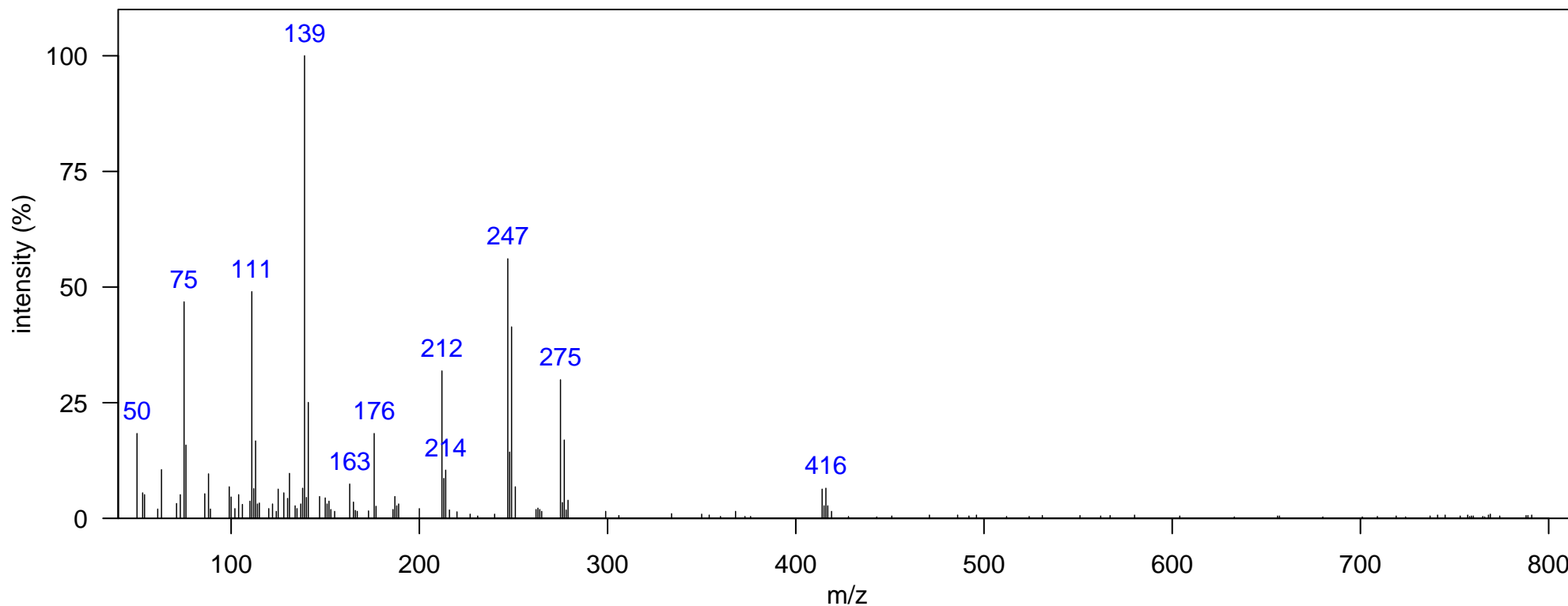
Comment: sharing common m/z ions and the pattern/could be DDT related metabolites



m/z [Fragment]

Class: Unknown-2

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Name: unknown-3-1

Class: Unknown-3

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1268.12, 1.327

Ecotype: coastal

Quantitative Ion m/z: 406

Instrument: GCxGC-TOF, EI, 70 eV

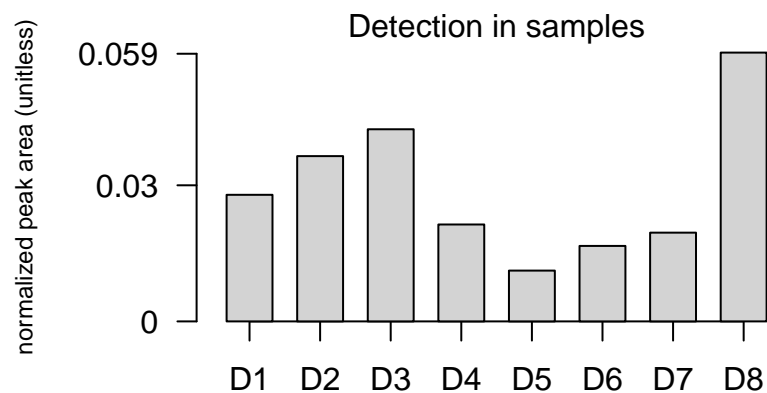
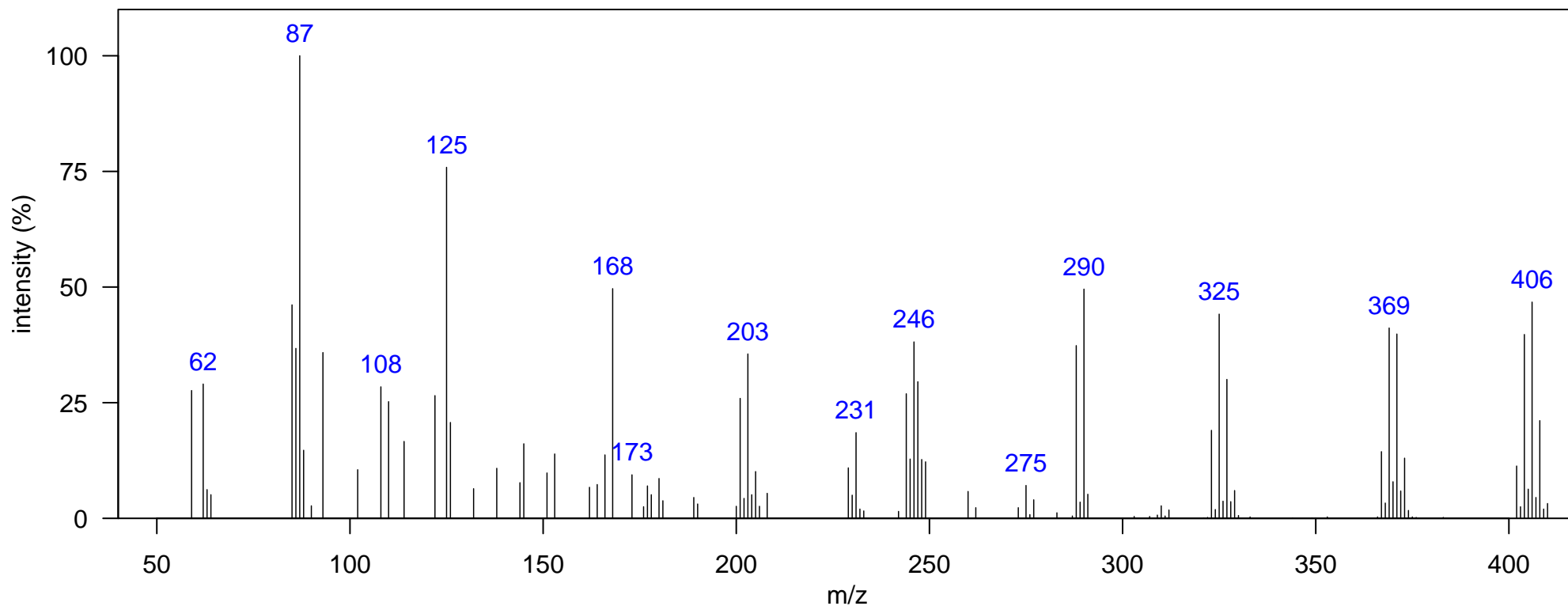
Atlantic Lib: Unknown 1-1

Elemental Formula: C<sub>9</sub>H<sub>6</sub>OBr<sub>3</sub>Cl

Source: unknown

Comment: sharing the mass fragmentations

Identification:



m/z [Fragment]
288 [M-BrCl]+
323 [M-Br]+
367 [M-Cl]+
402 M+

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1380.05, 1.419

Ecotype: coastal

Quantitative Ion m/z: 484

Instrument: GCxGC-TOF, EI, 70 eV

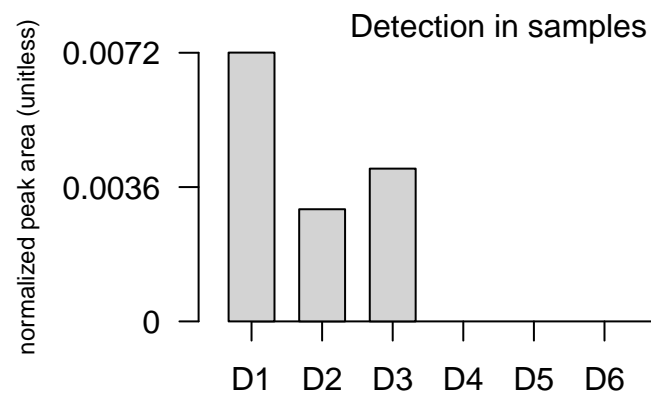
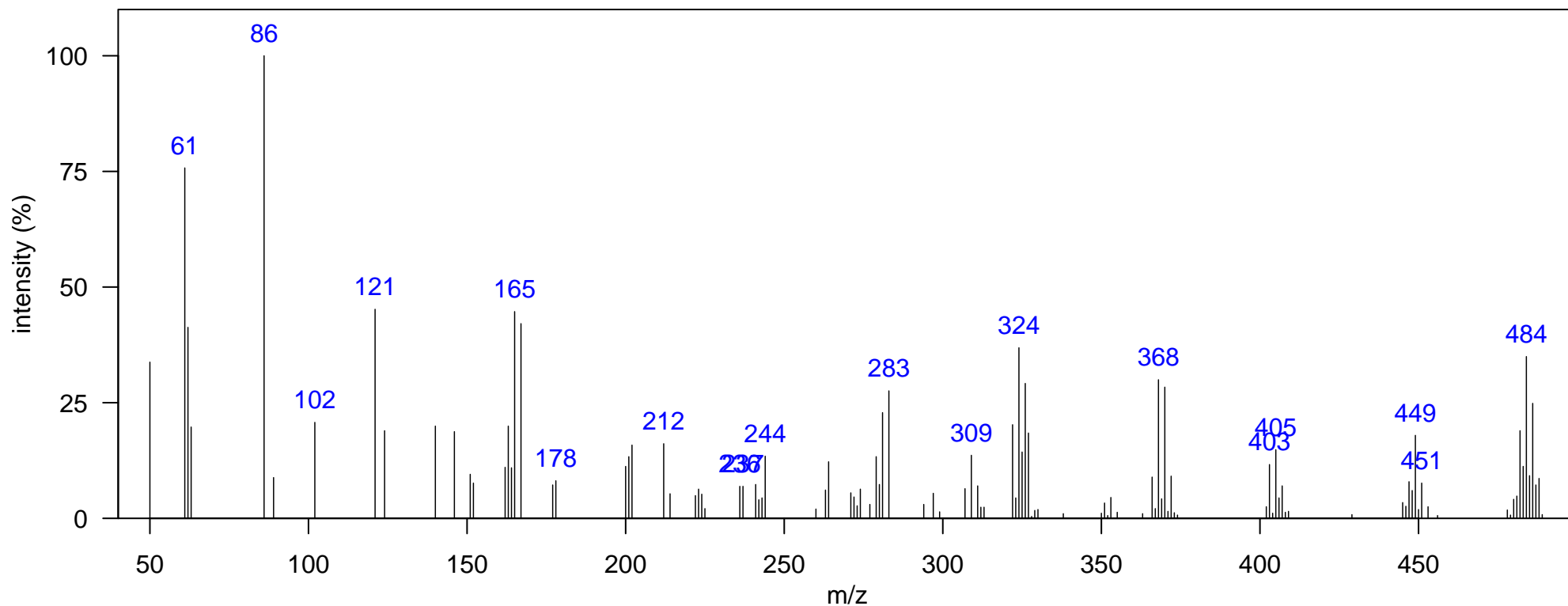
Atlantic Lib: Unknown 1-2

Elemental Formula: C<sub>9</sub>H<sub>6</sub>OBr<sub>4</sub>Cl

Source: unknown

Comment: sharing the mass fragmentations

Identification:



## m/z [Fragment]

322 [M-Br<sub>2</sub>]<sup>+</sup>  
366 [M-BrCl]<sup>+</sup>  
401 [M-Br]<sup>+</sup>  
445 [M-Cl]<sup>+</sup>  
480 M<sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1432.52, 1.511

Ecotype: coastal

Quantitative Ion m/z: 484

Instrument: GCxGC-TOF, EI, 70 eV

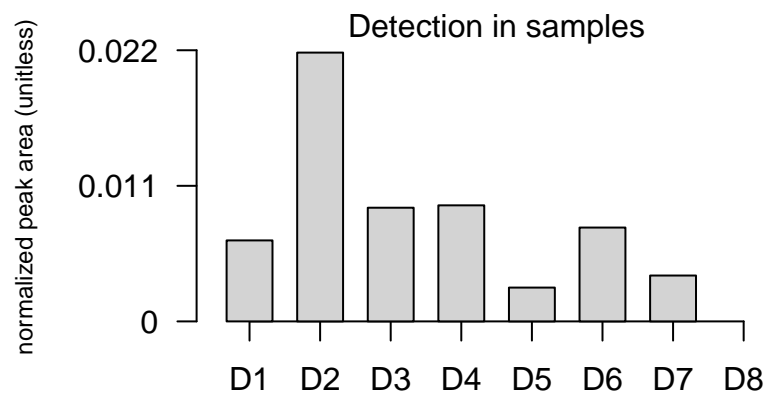
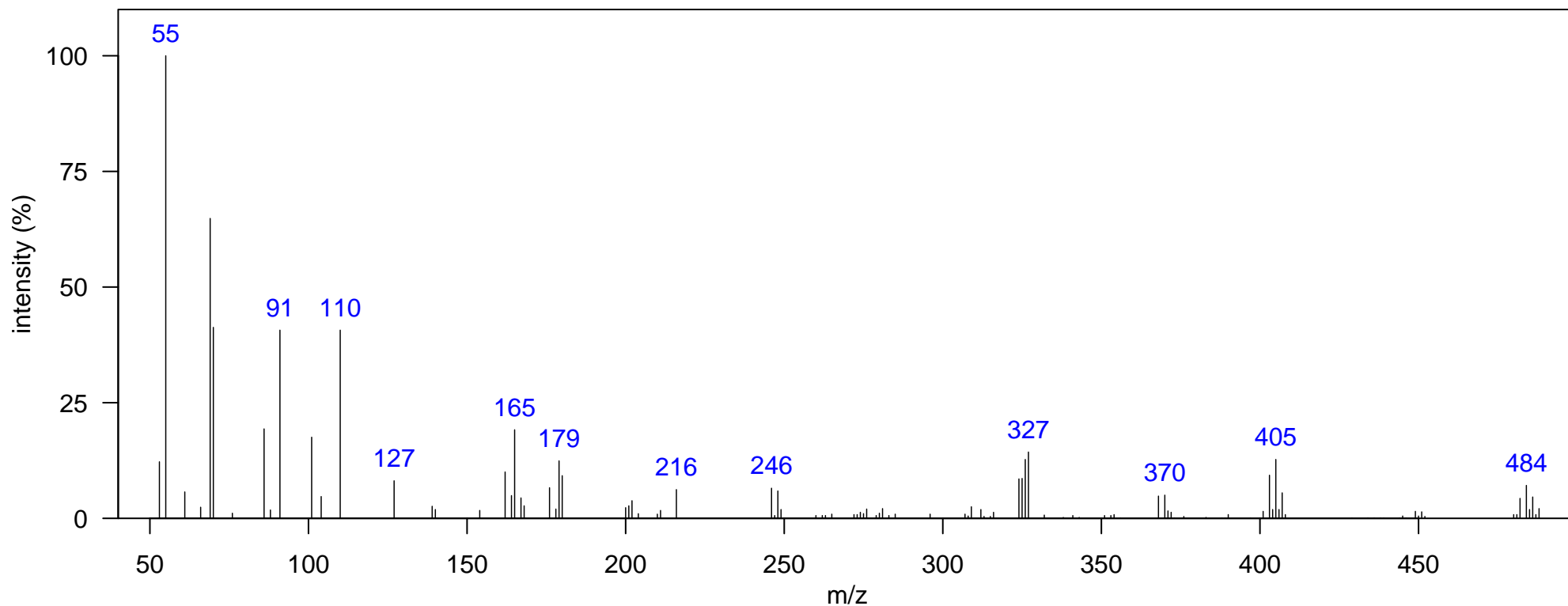
Atlantic Lib: Unknown 1-2

Elemental Formula: C<sub>9</sub>H<sub>6</sub>OBr<sub>4</sub>Cl

Source: unknown

Comment: sharing the mass fragmentations

Identification:



m/z [Fragment]
401 [M-Br] <sup>+</sup>
445 [M-Cl] <sup>+</sup>
480 M <sup>+</sup>

Name: unknown-4-1

Class: Unknown-4

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1317.09, 1.247

Ecotype: coastal

Quantitative Ion m/z: 308

Instrument: GCxGC-TOF, EI, 70 eV

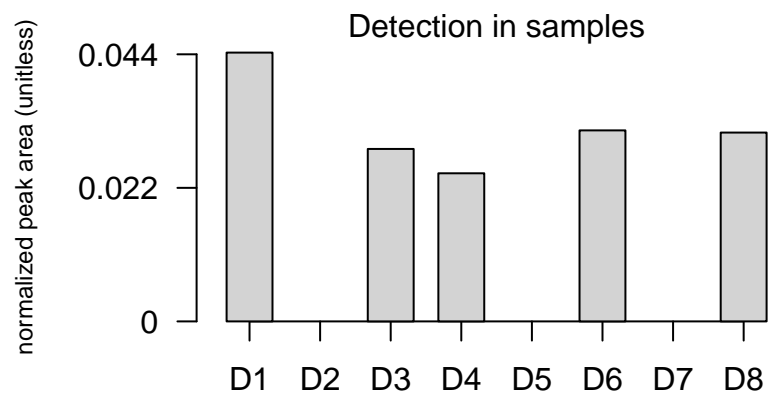
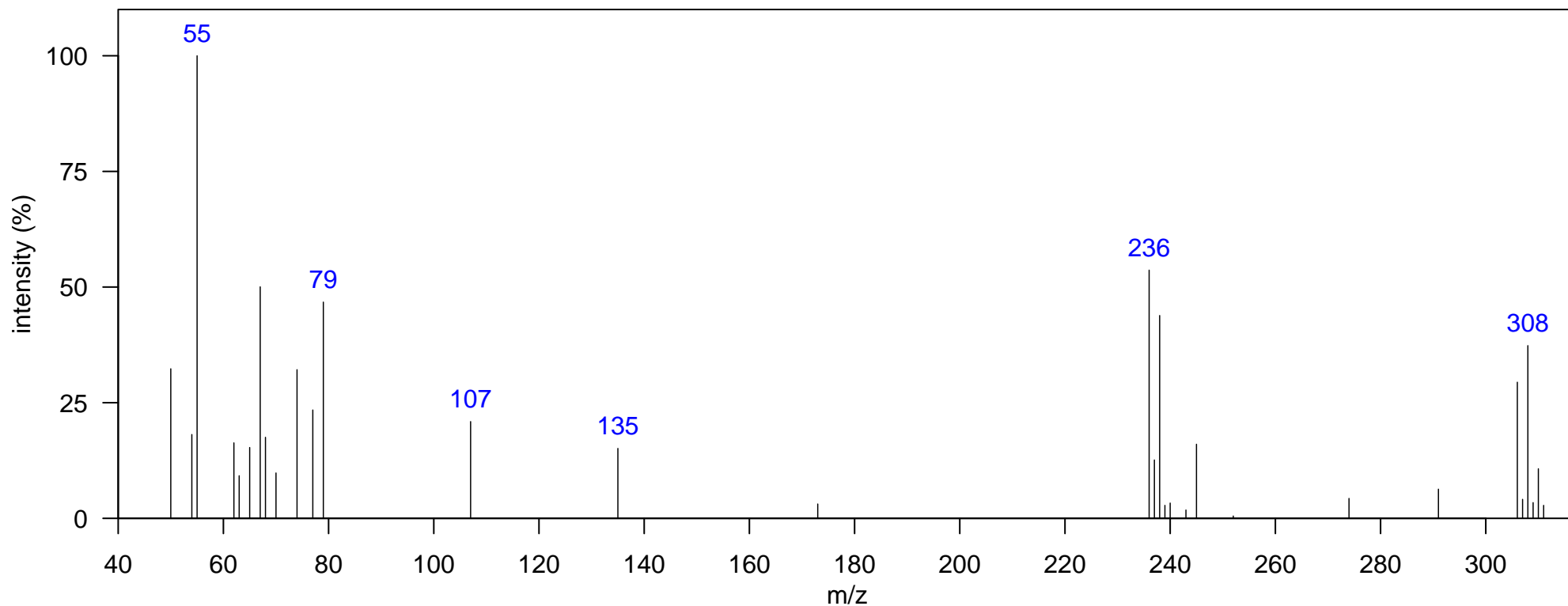
Atlantic Lib:

Elemental Formula: C<sub>12</sub>H<sub>6</sub>Cl<sub>4</sub>O

Source: unknown

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
236 [M-Cl <sub>2</sub> ] <sup>+</sup>
306 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1418.53, 1.327

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Cl<sub>6</sub>O

Ecotype: coastal

Quantitative Ion m/z: 376

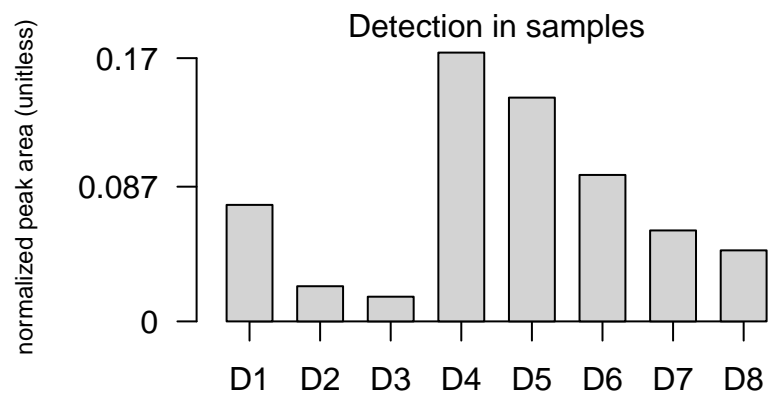
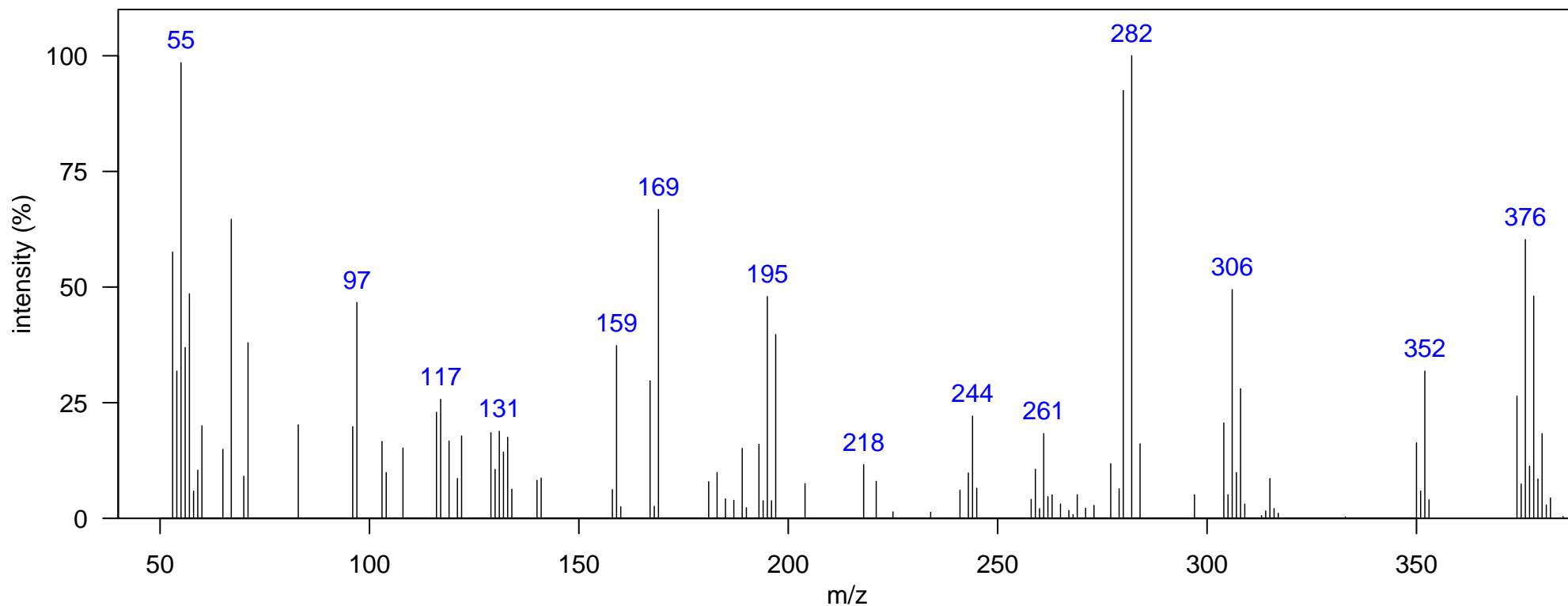
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 6Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
304 [M-Cl <sub>2</sub> ] <sup>+</sup>
374 M <sup>+</sup>



Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1436.02, 1.313

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Cl<sub>6</sub>O

Ecotype: coastal

Quantitative Ion m/z: 376

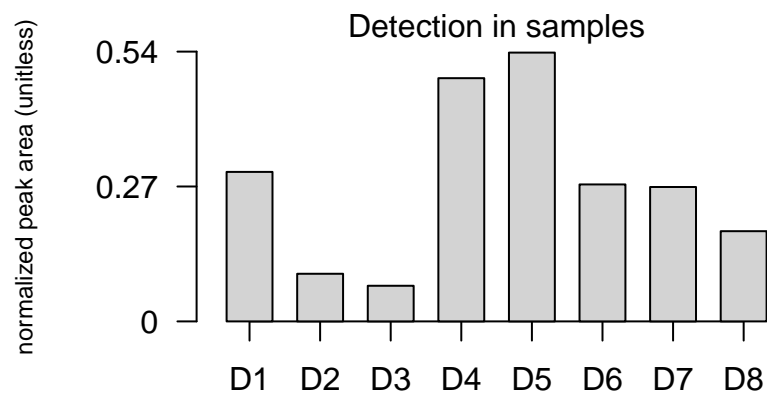
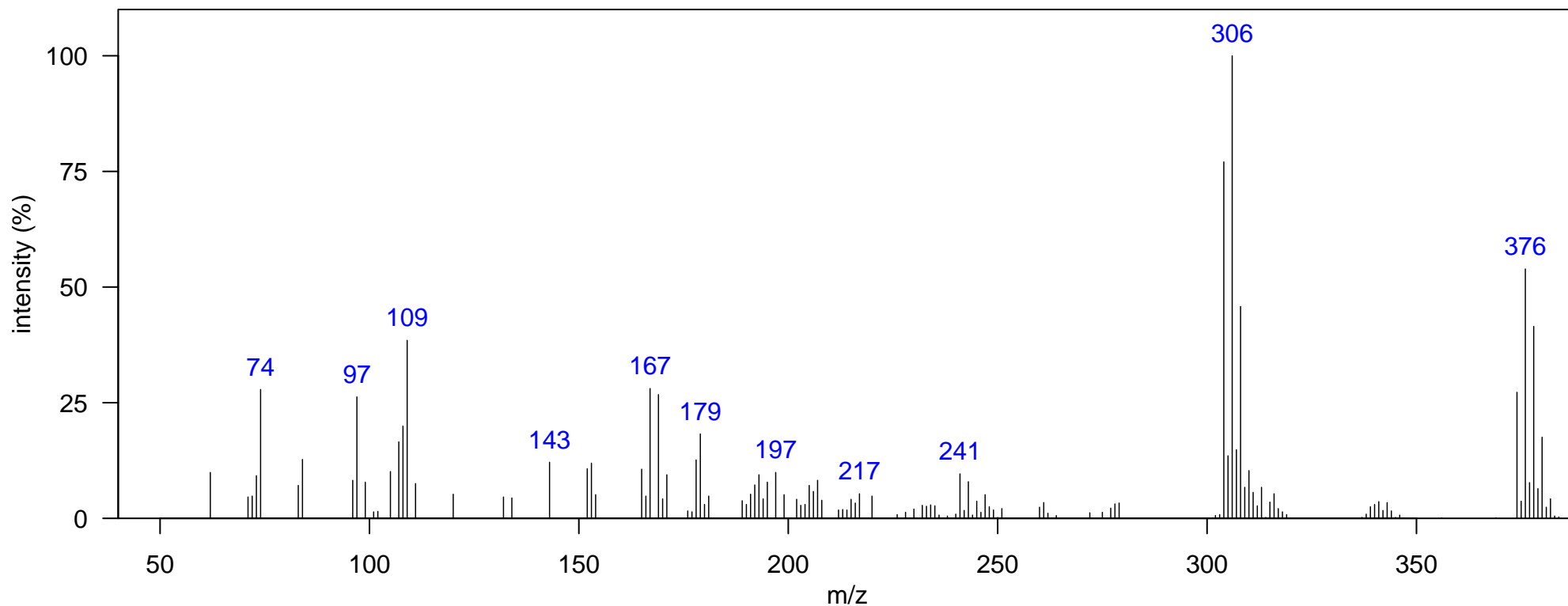
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 6Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
304 [M-Cl <sub>2</sub> ] <sup>+</sup>
374 M <sup>+</sup>

Name: unknown-4-4

Class: Unknown-4

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1464.01, 1.313

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Cl<sub>6</sub>O

Ecotype: coastal

Quantitative Ion m/z: 376

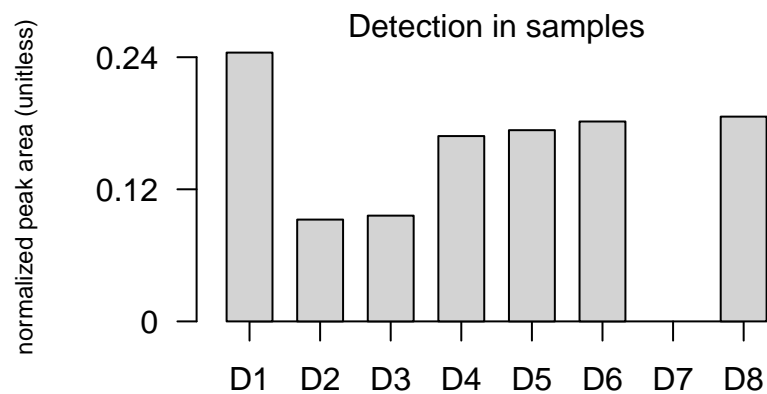
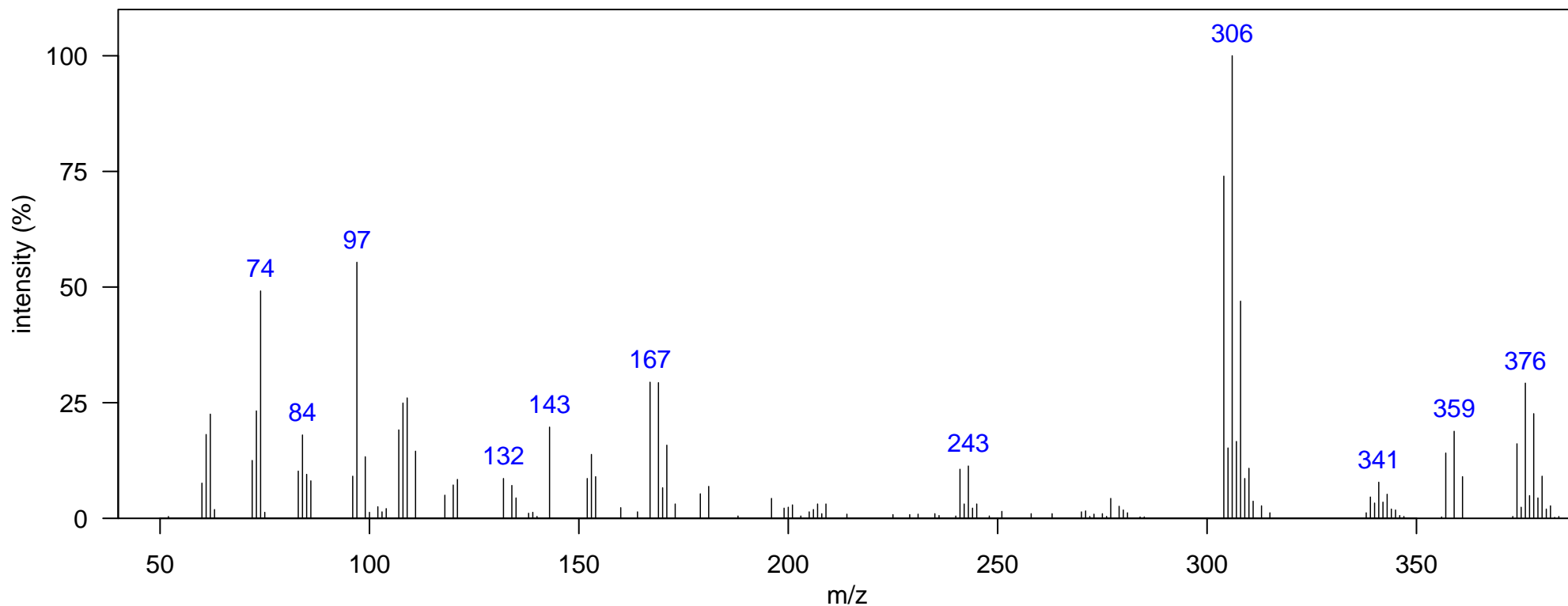
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 6Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
304 [M-Cl <sub>2</sub> ] <sup>+</sup>
374 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1471, 1.36

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Cl<sub>6</sub>O

Ecotype: coastal

Quantitative Ion m/z: 376

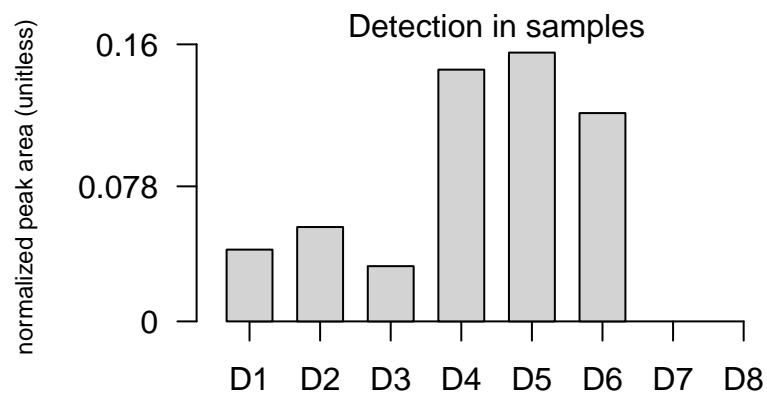
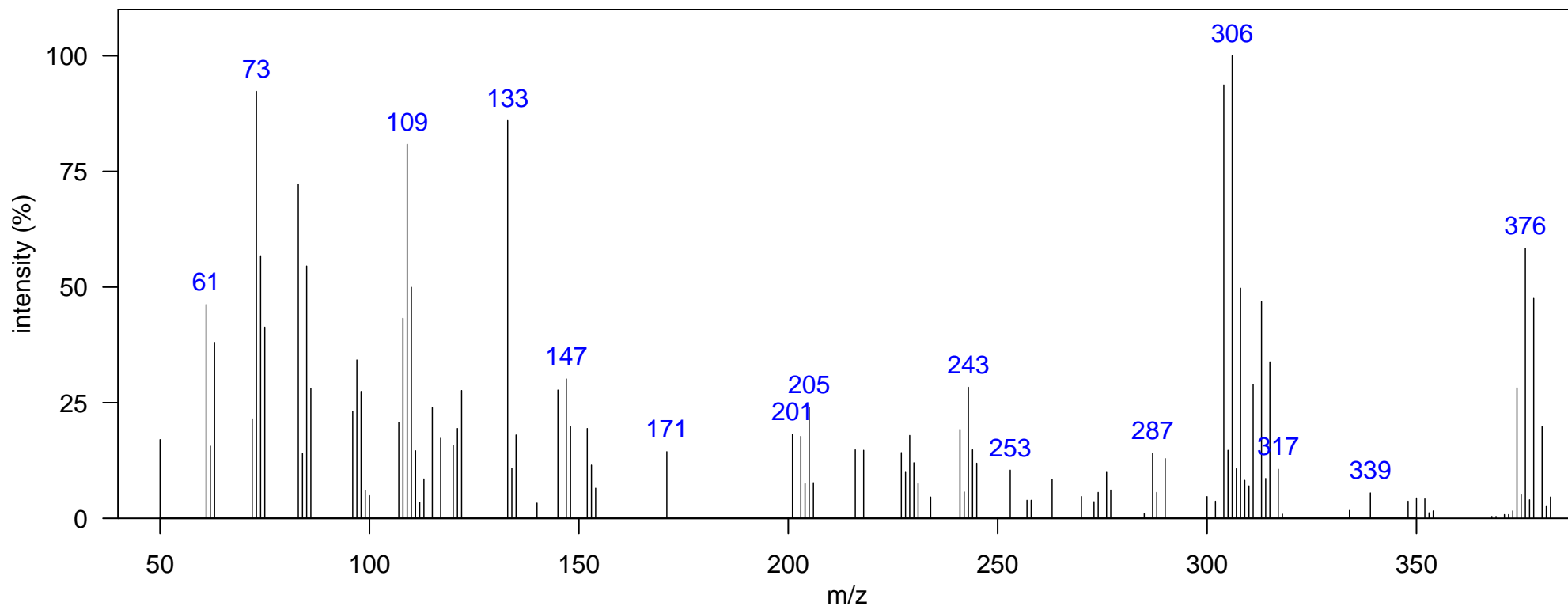
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 6Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
304 [M-Cl <sub>2</sub> ] <sup>+</sup>
374 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1484.99, 1.386

Ecotype: coastal

Quantitative Ion m/z: 376

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Cl<sub>6</sub>O

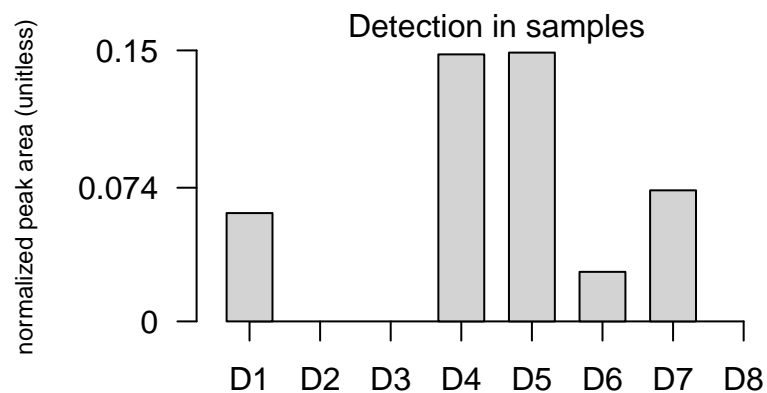
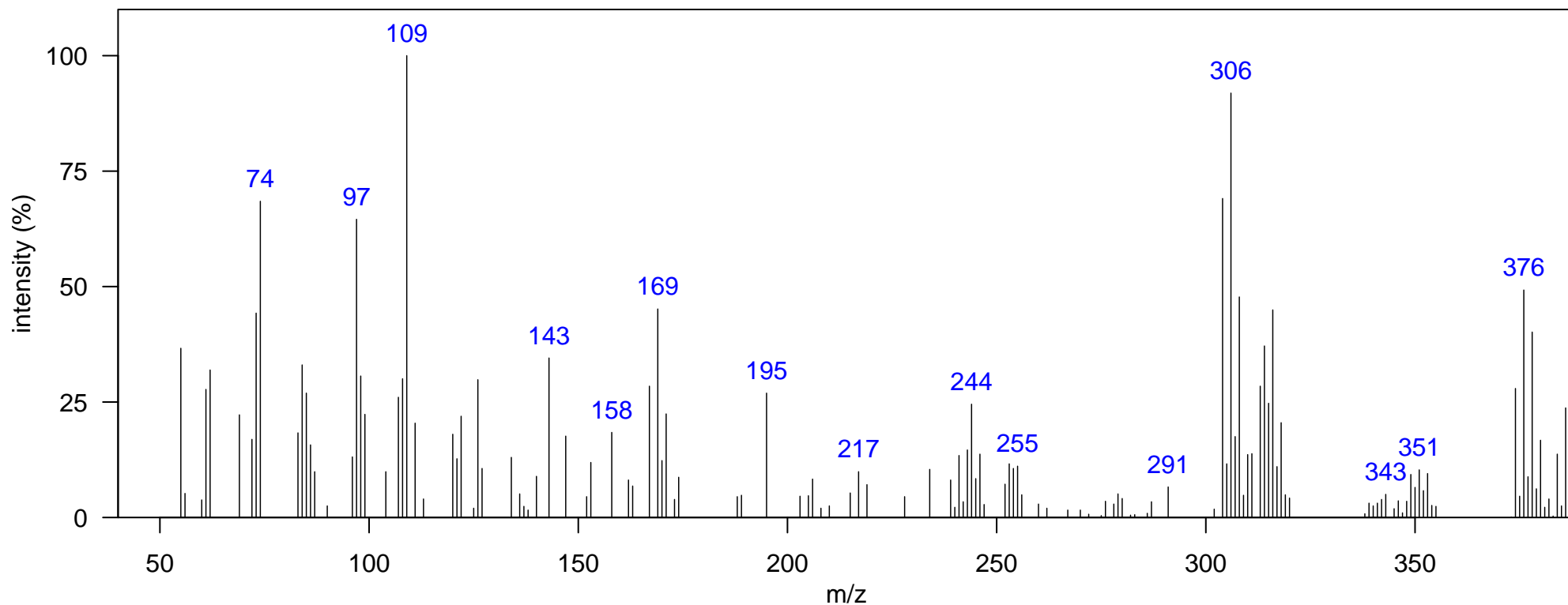
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 6Cl

Source: unknown

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB

Identification:



m/z [Fragment]
304 [M-Cl <sub>2</sub> ] <sup>+</sup>
374 M <sup>+</sup>

Name: unknown-4-7

Class: Unknown-4

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1509.48, 1.432

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Cl<sub>6</sub>O

Ecotype: coastal

Quantitative Ion m/z: 376

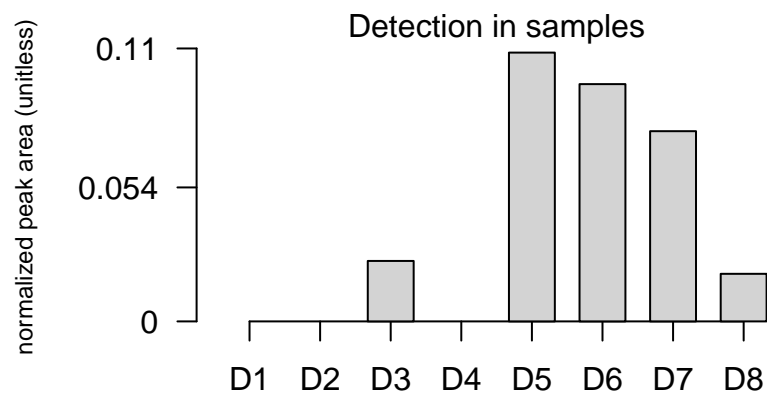
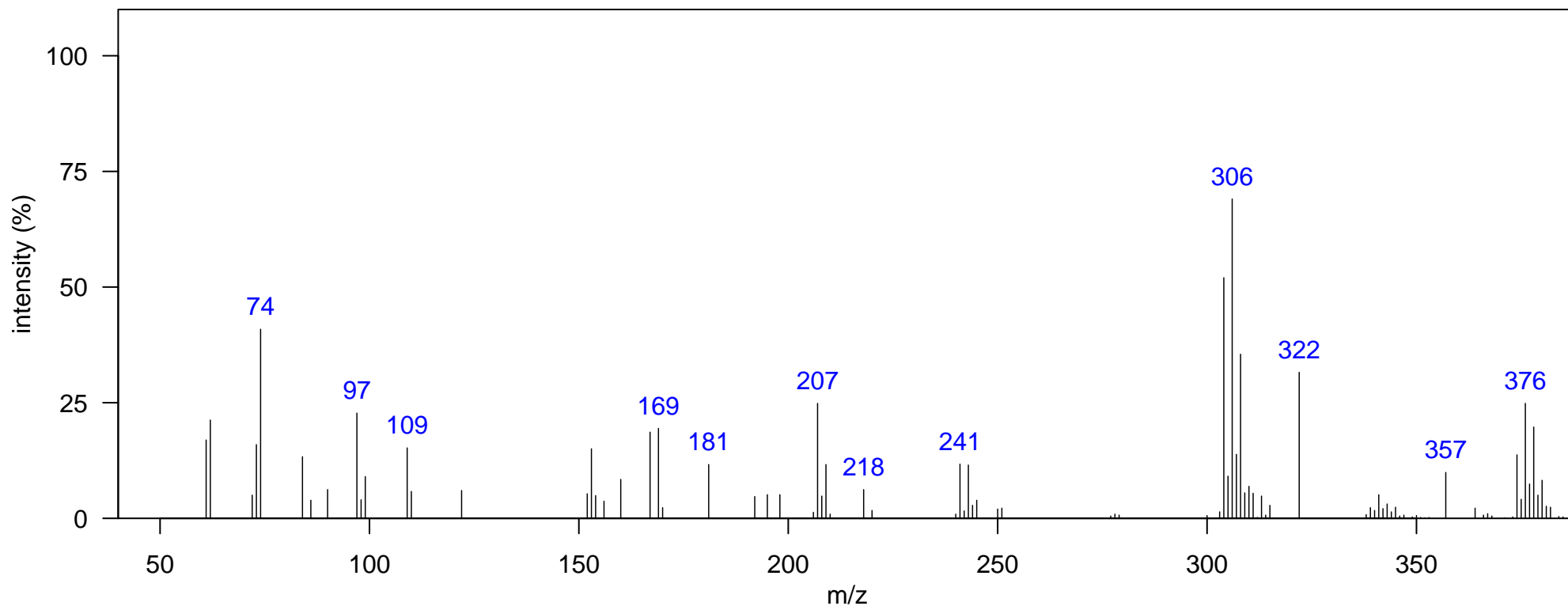
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 6Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
304 [M-Cl <sub>2</sub> ] <sup>+</sup>
374 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1453.51, 1.426

Elemental Formula: C<sub>12</sub>H<sub>3</sub>Cl<sub>7</sub>O

Ecotype: coastal

Quantitative Ion m/z: 410

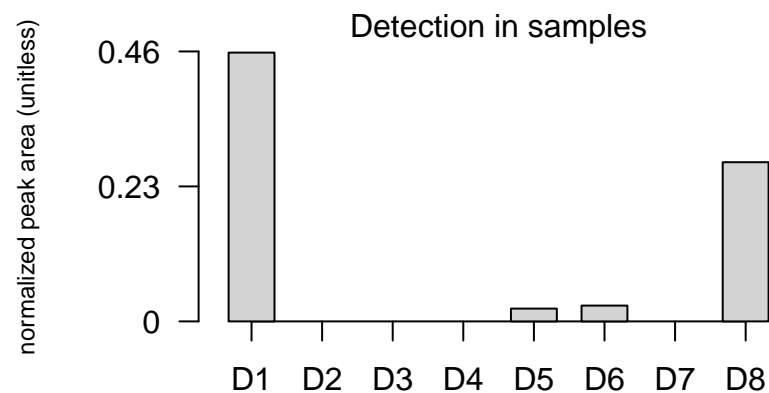
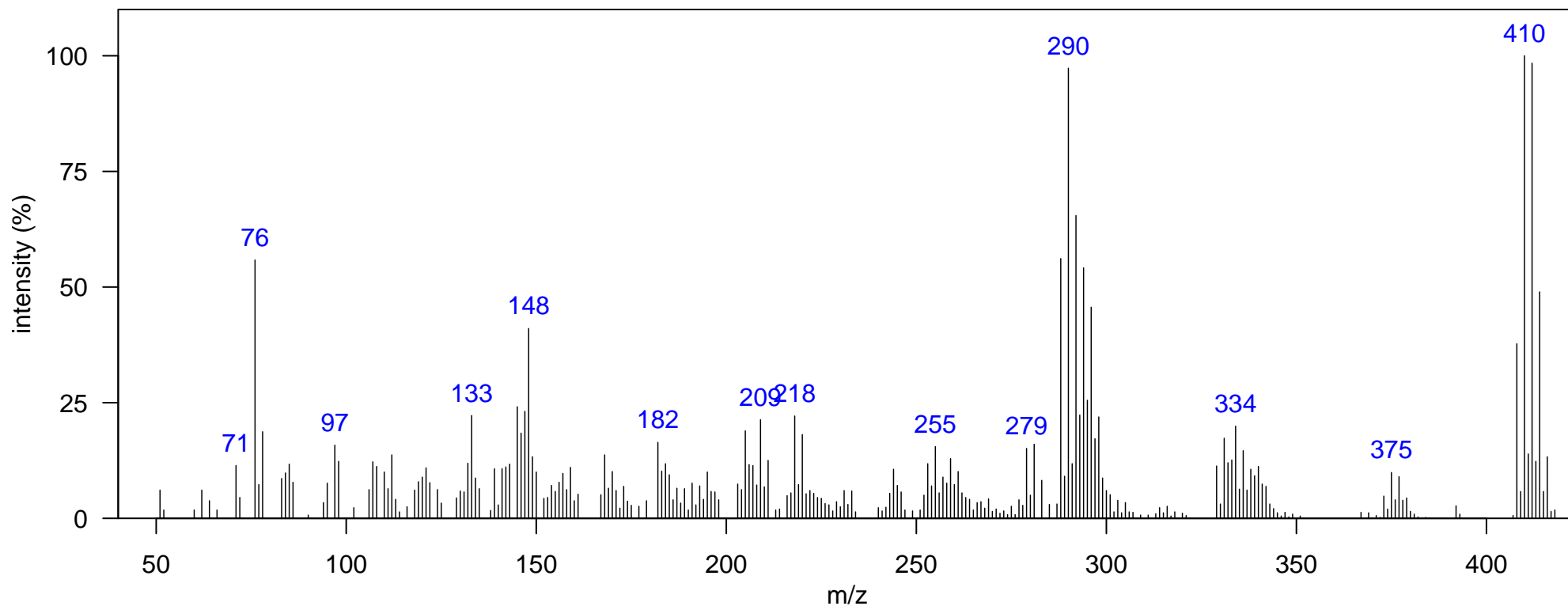
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 7Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
373 [M-Cl] <sup>+</sup>
408 M <sup>+</sup>

Name: unknown-4-9

Class: Unknown-4

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1464.01, 1.426

Elemental Formula: C<sub>12</sub>H<sub>3</sub>Cl<sub>7</sub>O

Ecotype: coastal

Quantitative Ion m/z: 410

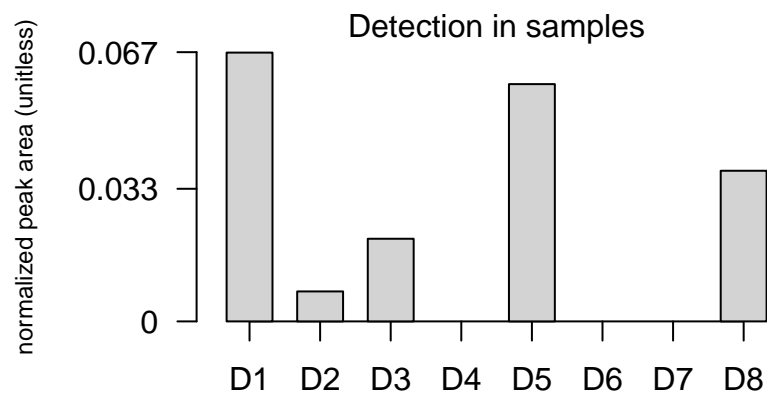
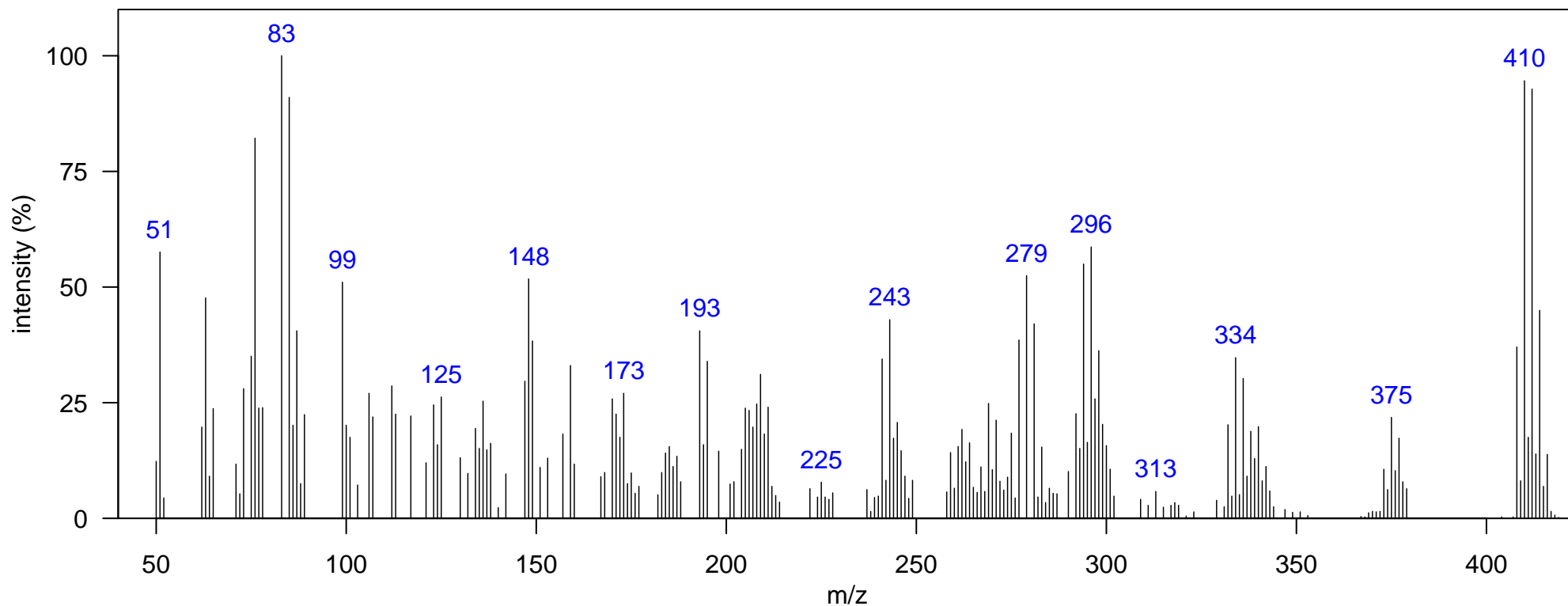
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 7Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
373 [M-Cl] <sup>+</sup>
408 M <sup>+</sup>

Name: unknown-4-10

Class: Unknown-4

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1512.98, 1.386

Elemental Formula: C<sub>12</sub>H<sub>4</sub>Cl<sub>7</sub>O

Ecotype: coastal

Quantitative Ion m/z: 410

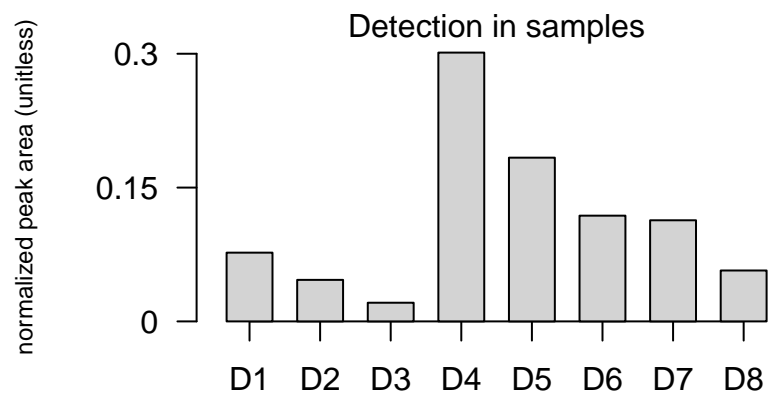
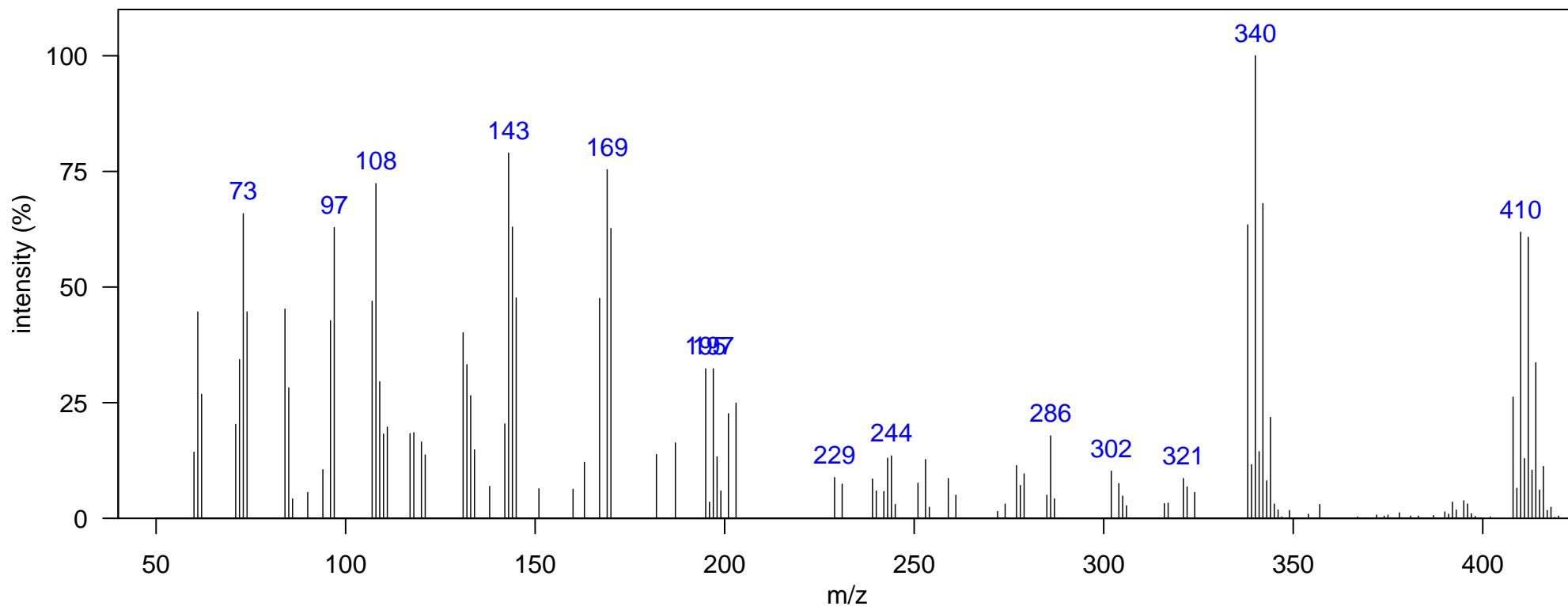
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinate diphenyl ether 7Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
338 [M-Cl <sub>2</sub> ] <sup>+</sup>
408 M <sup>+</sup>



Name: unknown-4-11

Class: Unknown-4

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1530.47, 1.432

Elemental Formula: C<sub>12</sub>H<sub>3</sub>Cl<sub>7</sub>O

Ecotype: offshore

Quantitative Ion m/z: 410

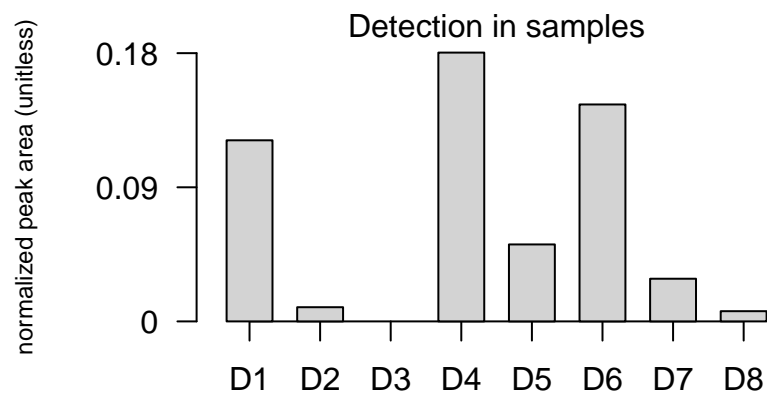
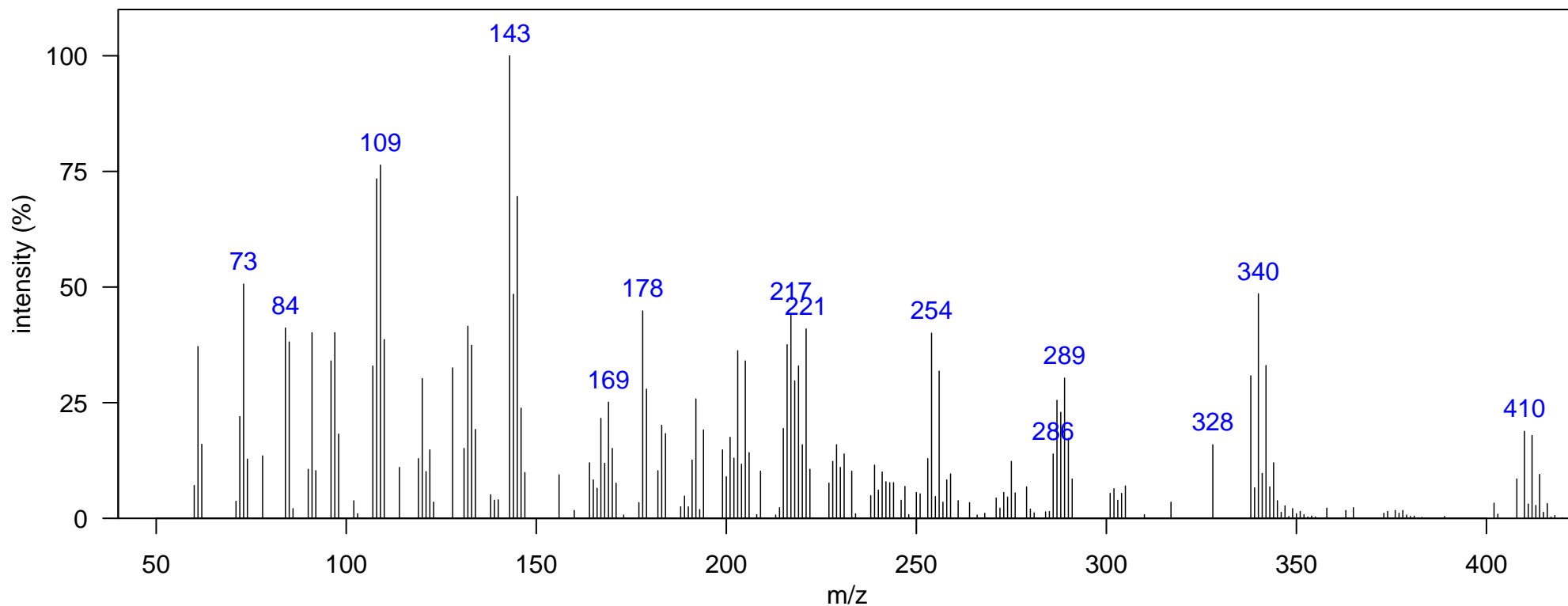
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinate diphenyl ether 7Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
338 [M-Cl <sub>2</sub> ] <sup>+</sup>
408 M <sup>+</sup>

Name: unknown-4-12

Class: Unknown-4

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1561.95, 1.525

Elemental Formula: C<sub>12</sub>H<sub>3</sub>Cl<sub>7</sub>O

Ecotype: coastal

Quantitative Ion m/z: 410

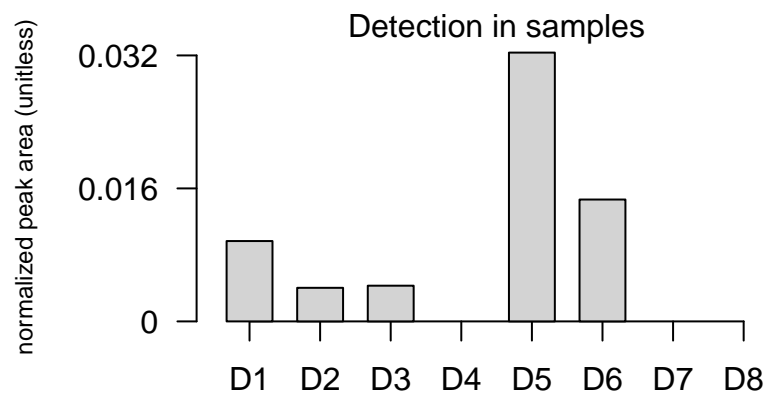
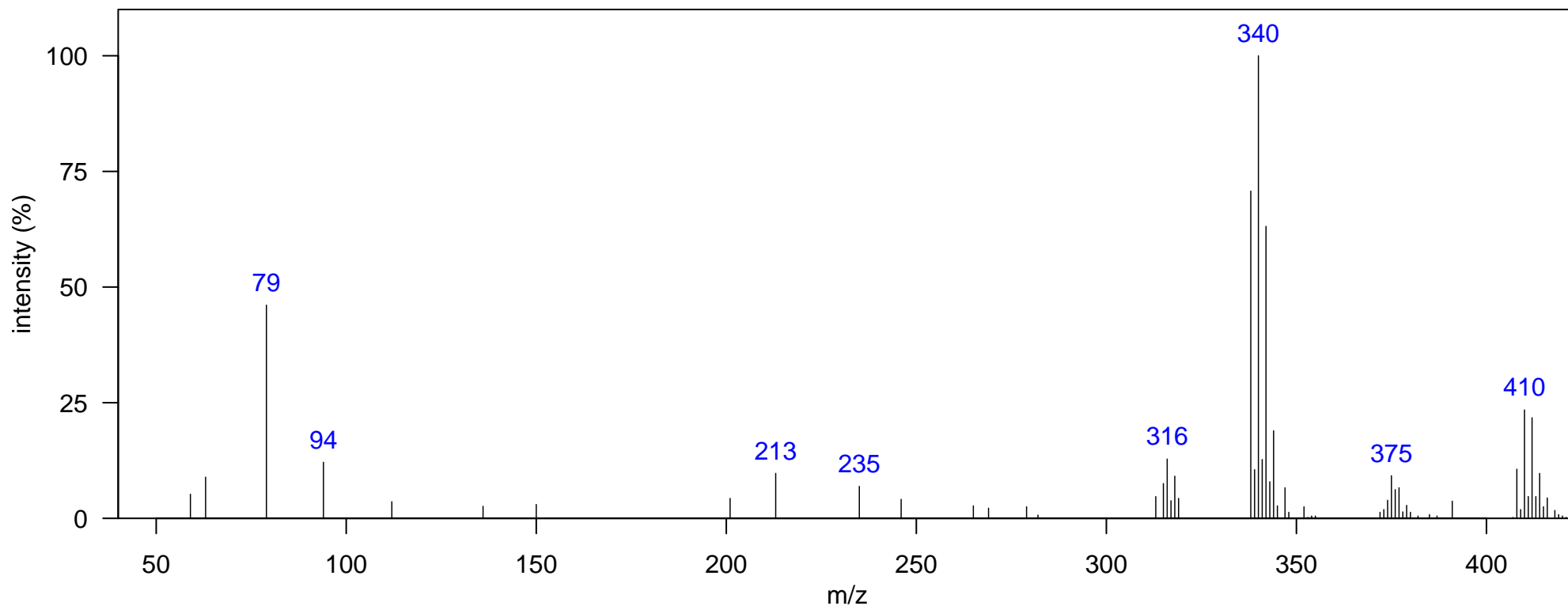
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinate diphenyl ether 7Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
338 [M-Cl <sub>2</sub> ] <sup>+</sup>
408 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1586.44, 1.663

Ecotype: coastal

Quantitative Ion m/z: 410

Elemental Formula: C<sub>12</sub>H<sub>3</sub>Cl<sub>7</sub>O

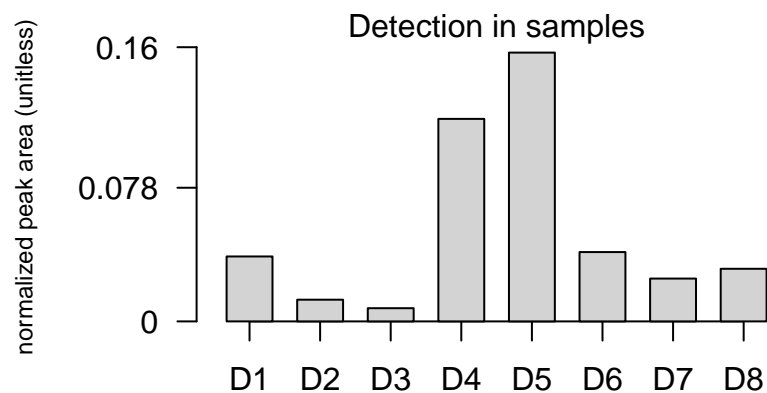
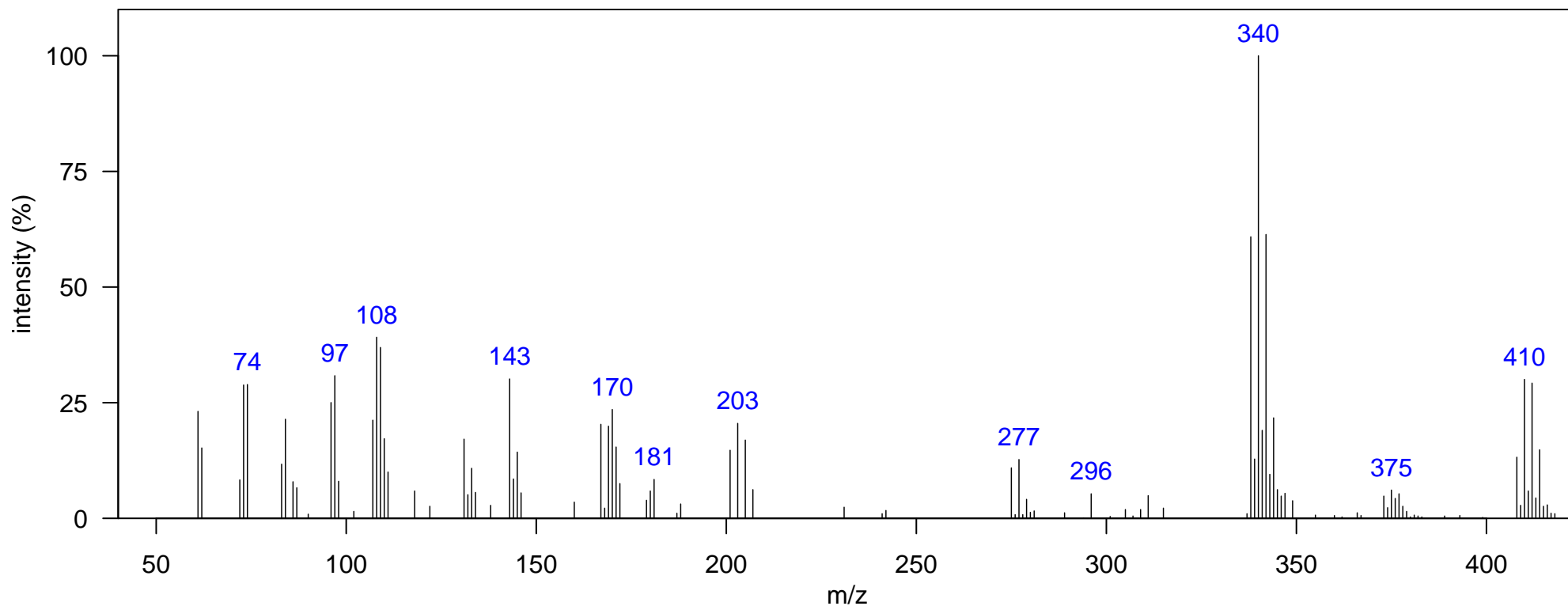
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinate diphenyl ether 7Cl

Source: unknown

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB

Identification:



m/z [Fragment]
338 [M-Cl <sub>2</sub> ] <sup>+</sup>
408 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1617.92, 1.742

Ecotype: coastal

Quantitative Ion m/z: 446

Elemental Formula: C<sub>12</sub>H<sub>2</sub>Cl<sub>8</sub>O

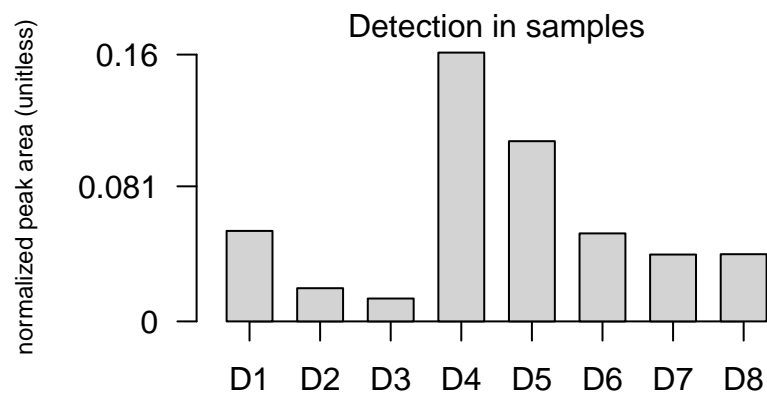
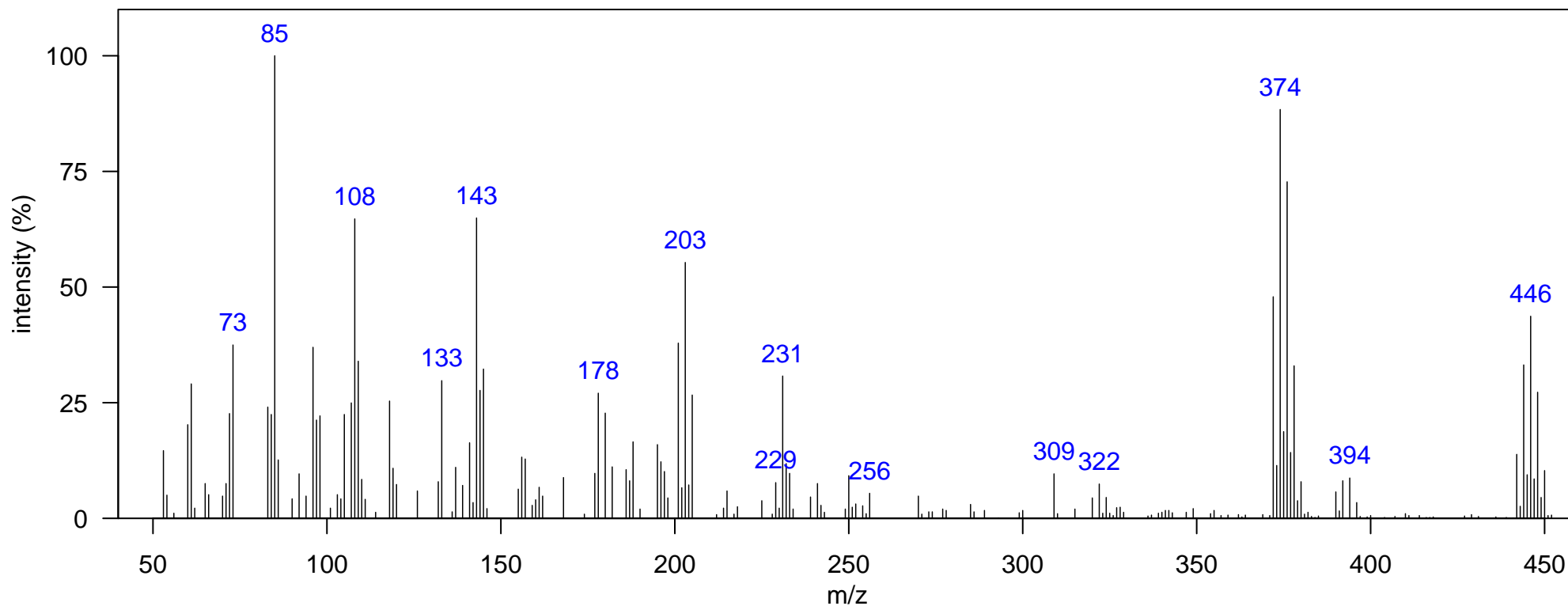
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 8Cl

Source: unknown

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB

Identification:



m/z [Fragment]
372 [M-Cl <sub>2</sub> ] <sup>+</sup>
442 M <sup>+</sup>

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1624.91, 1.716

Elemental Formula: C<sub>12</sub>H<sub>2</sub>Cl<sub>8</sub>O

Ecotype: coastal

Quantitative Ion m/z: 446

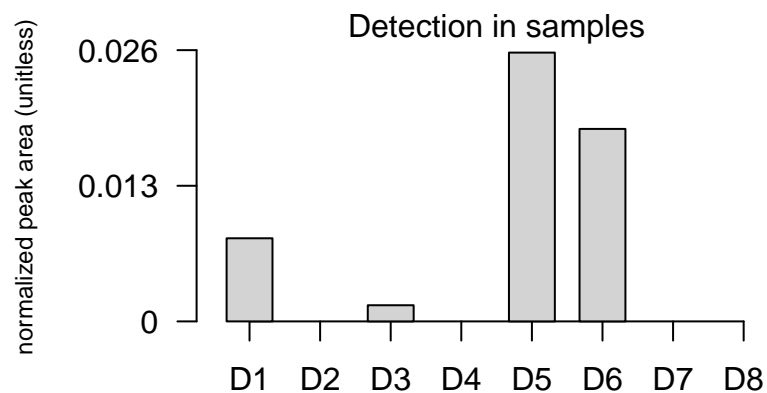
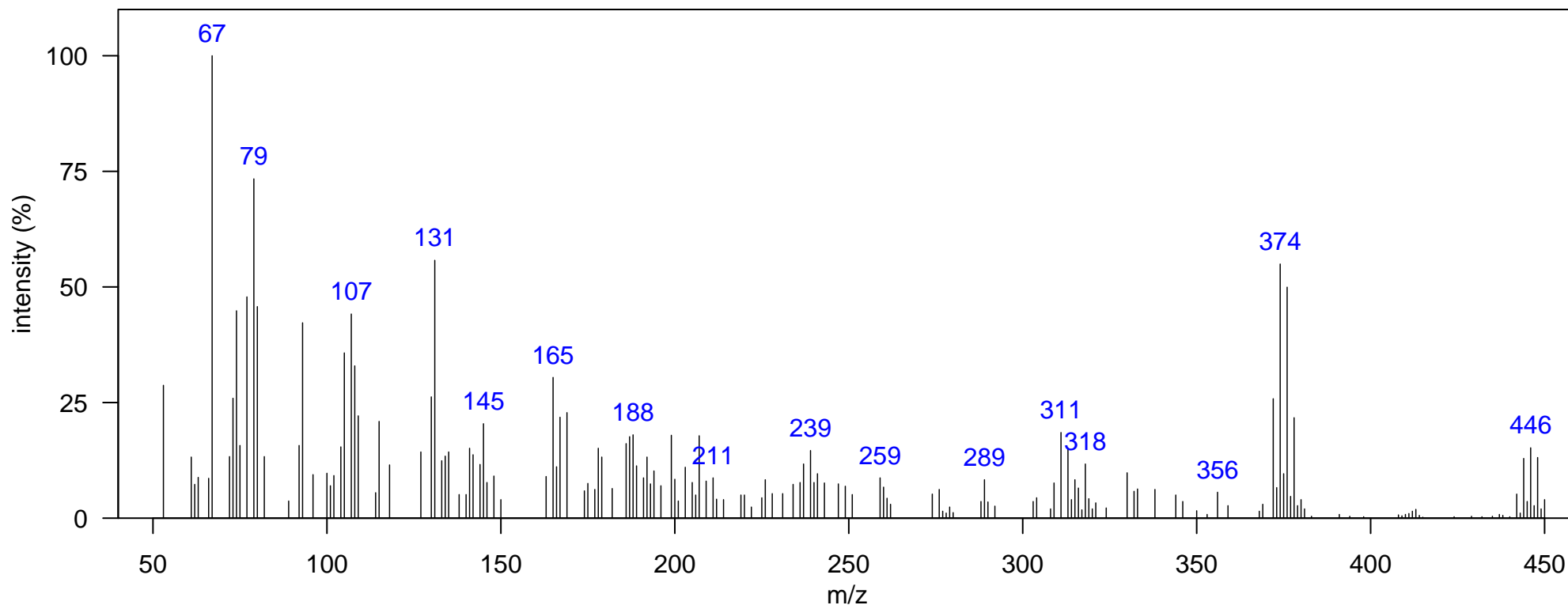
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 8Cl

Identification:

Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
372 [M-Cl <sub>2</sub> ] <sup>+</sup>
442 M <sup>+</sup>

Name: unknown-4-16

Class: Unknown-4

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1638.91, 1.782

Elemental Formula: C<sub>12</sub>H<sub>2</sub>Cl<sub>8</sub>O

Ecotype: coastal

Quantitative Ion m/z: 446

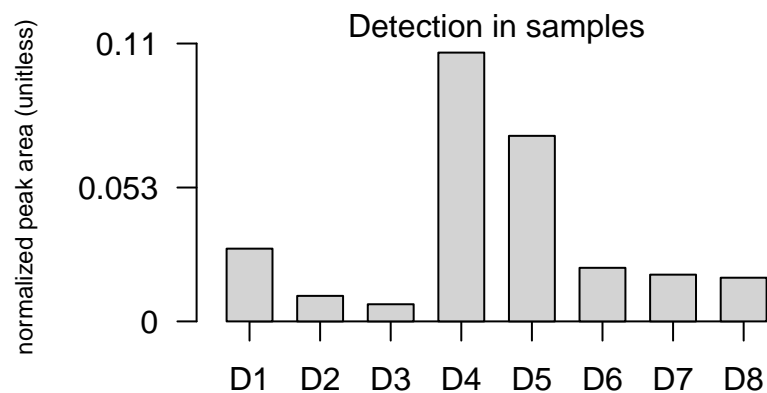
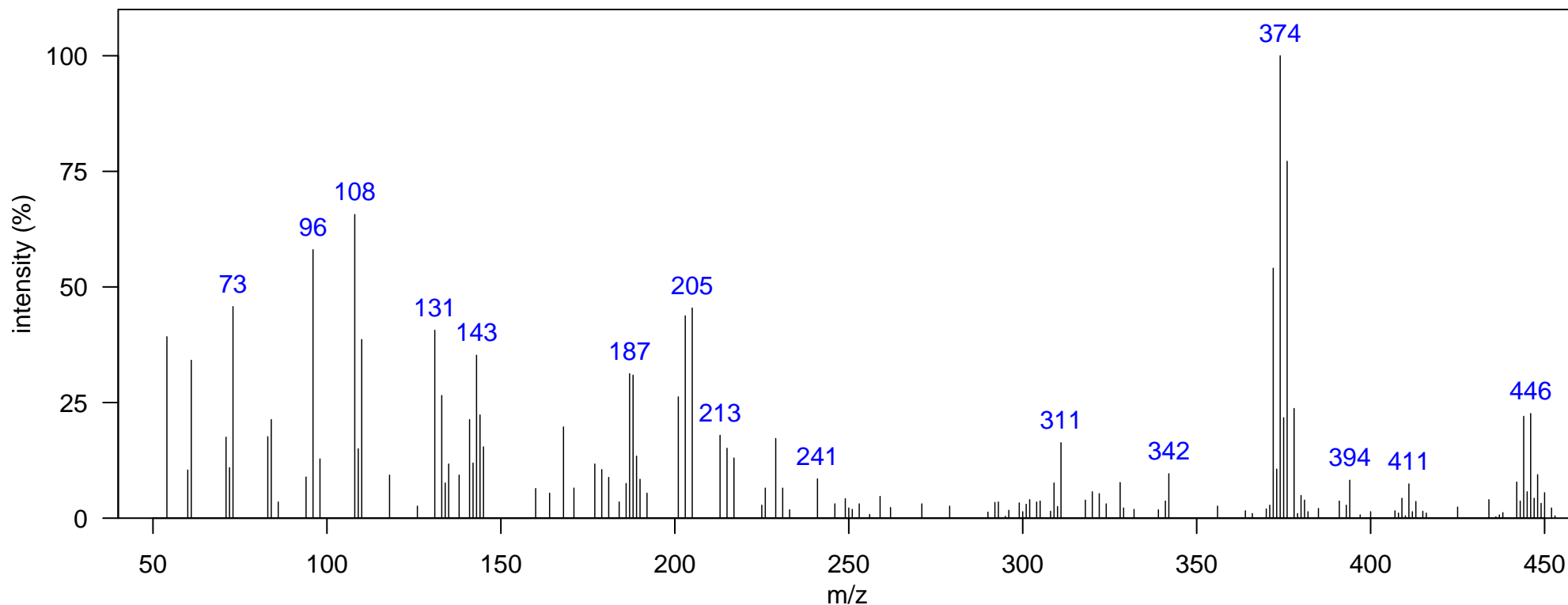
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: polychlorinated diphenyl ether 8Cl

Identification:

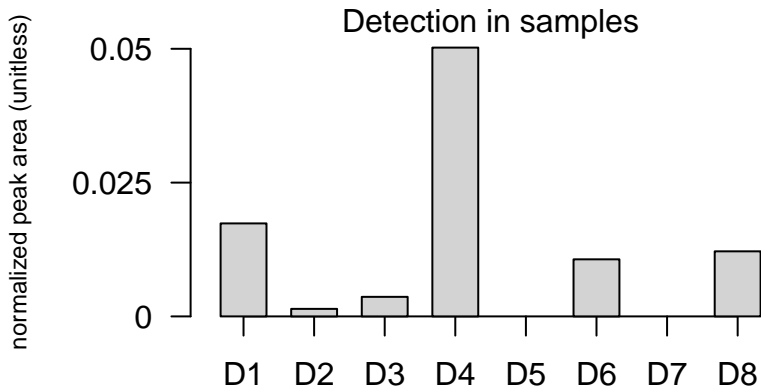
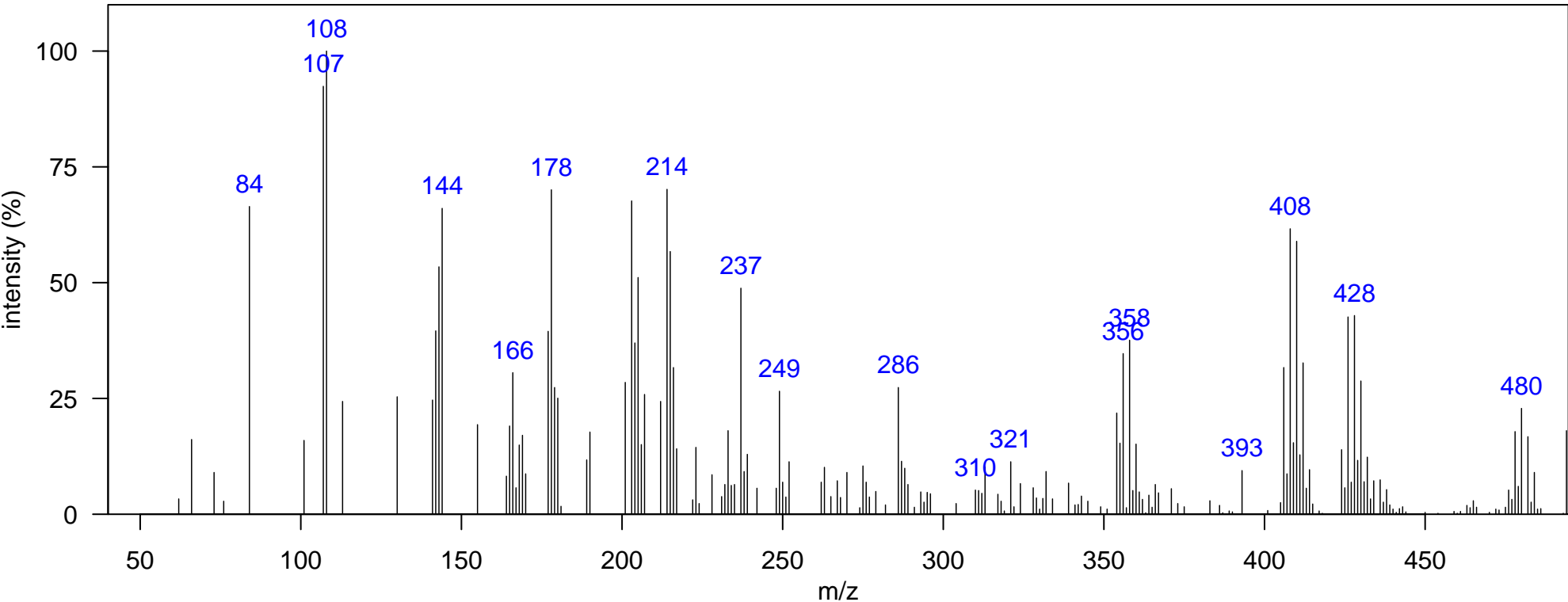
Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB



m/z [Fragment]
372 [M-Cl <sub>2</sub> ] <sup>+</sup>
442 M <sup>+</sup>

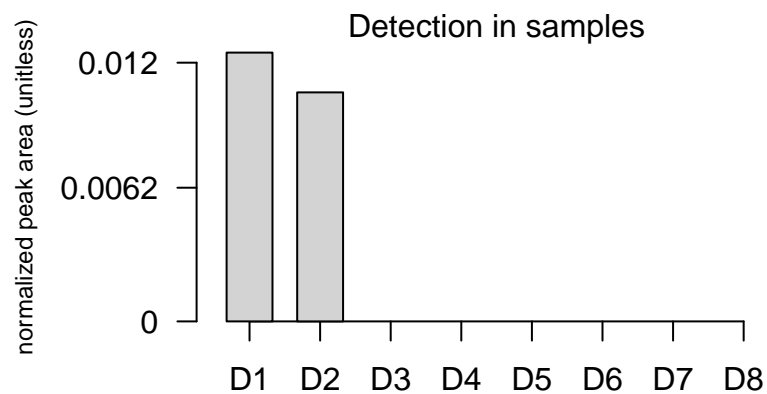
Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1729.85, 1.894  
Ecotype: coastal Quantitative Ion m/z: 480  
Instrument: GCxGC-TOF, EI, 70 eV Atlantic Lib:  
Comment: sharing common m/z ions and the pattern. Hypothesized PCDE or OH-PCB

Elemental Formula: C<sub>12</sub>HCl<sub>9</sub>O  
Source: unknown  
Identification:



m/z [Fragment]
428 PCB Interference
406 [M-Cl <sub>2</sub> ] <sup>+</sup>
476 M <sup>+</sup>

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]



Comment: sharing common m/z ions and the pattern

Filename: unknown\_19\_D1\_D1, Page: 273



Comment: sharing common m/z ions and the pattern

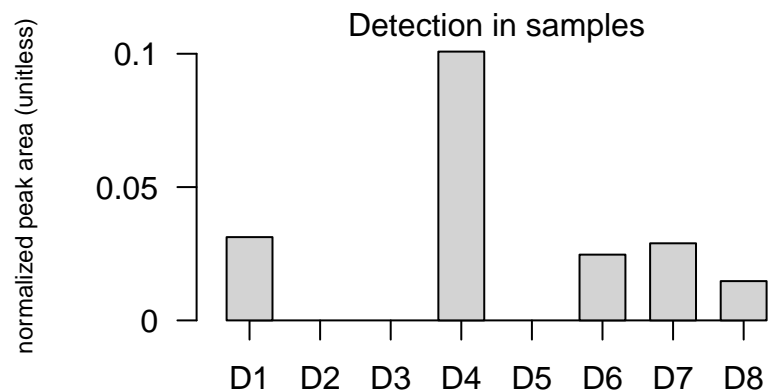
Filename: unknown\_23\_D1\_D1, Page: 275







Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]





Name: unknown-9

Class: Unknown

Sample: SoCal dolphin blubber D3, NEB0016 1D RT, 2D RT (s): 1086.22, 1.162

Ecotype: coastal

Quantitative Ion m/z: 342

Instrument: GCxGC-TOF, EI, 70 eV

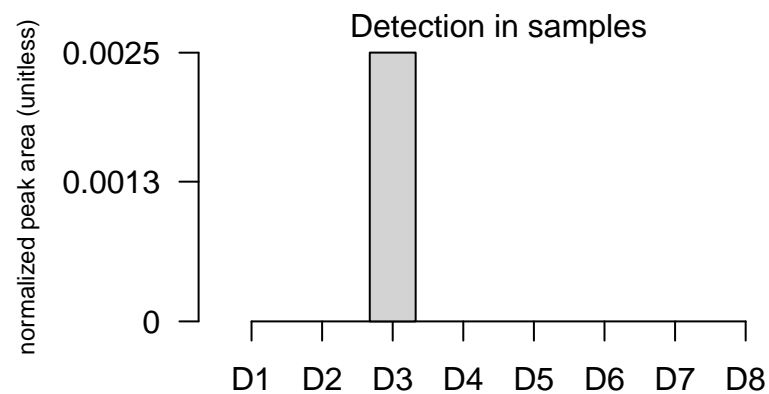
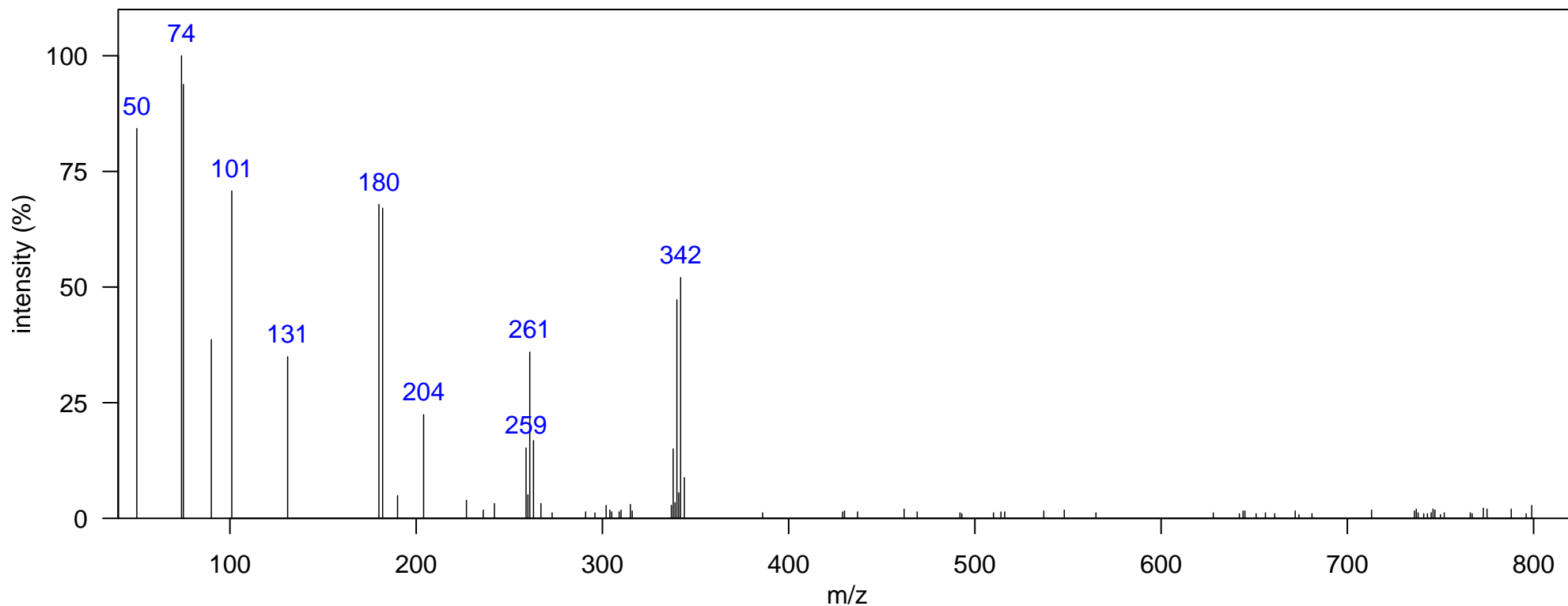
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

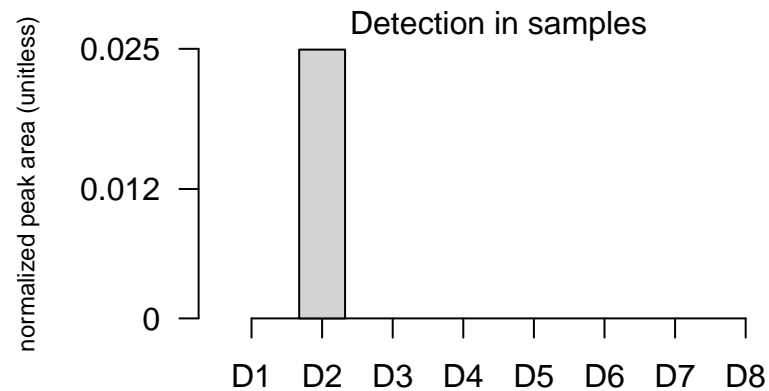
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

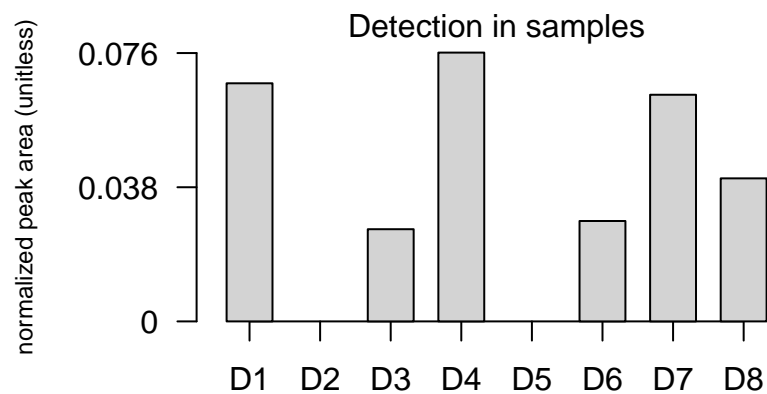
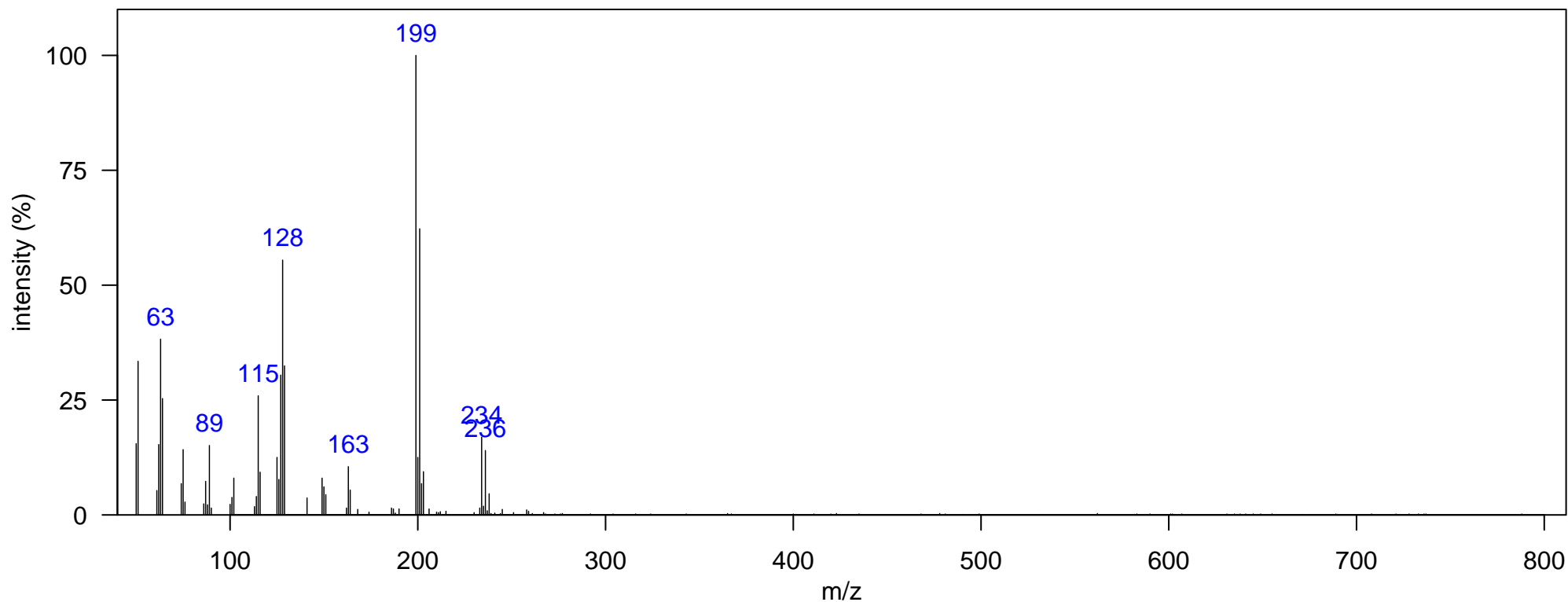
Quantitative Ion m/z: 199

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-12

Class: Unknown

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1194.66, 1.261

Ecotype: offshore

Quantitative Ion m/z: 233

Instrument: GCxGC-TOF, EI, 70 eV

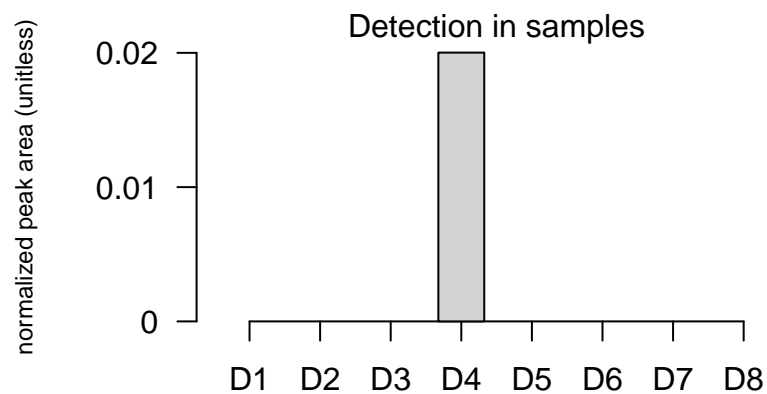
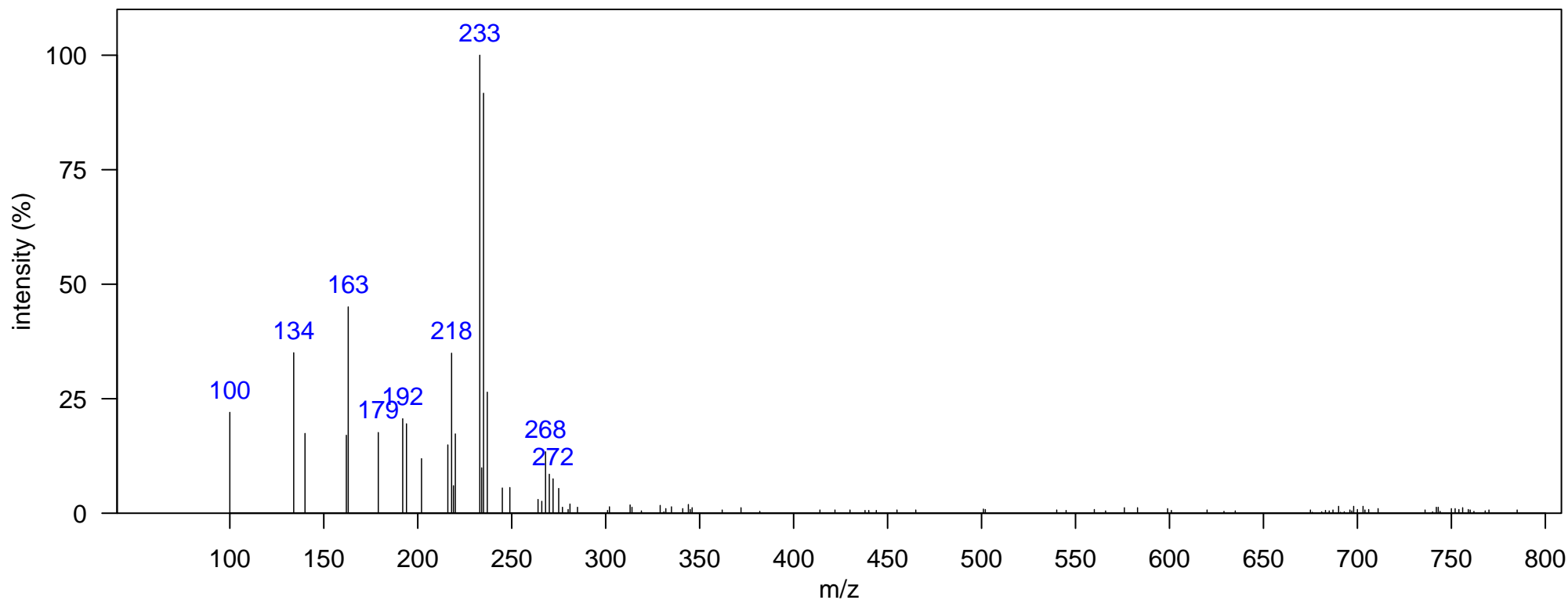
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

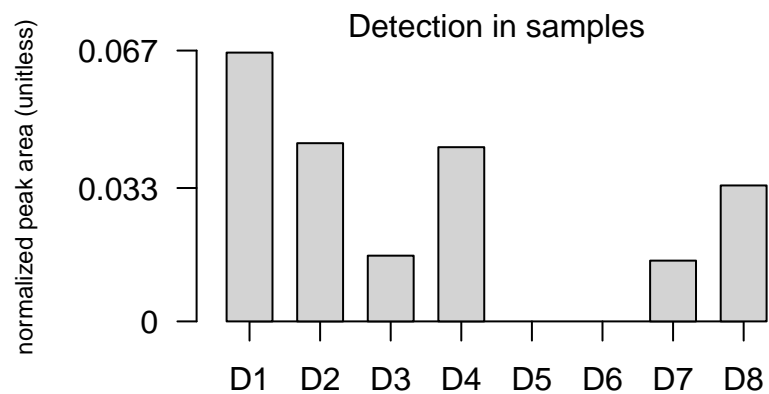
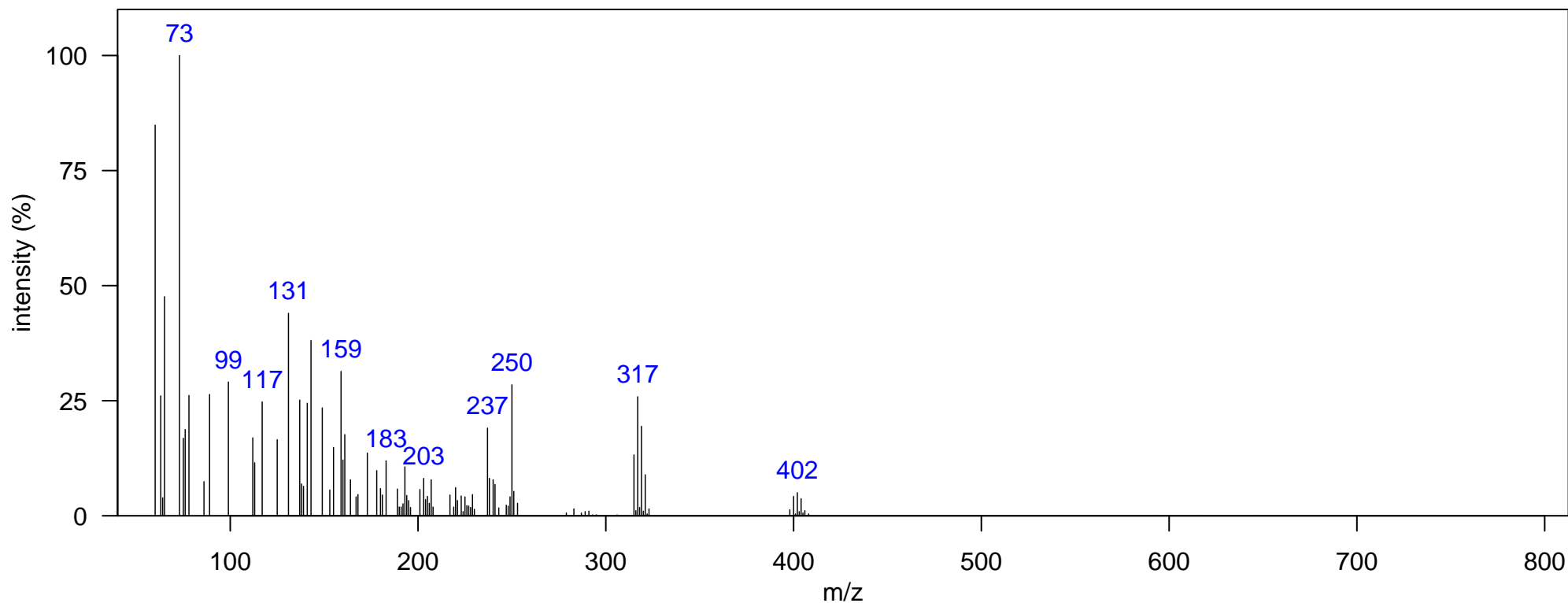
Quantitative Ion m/z: 317

Source: unknown

Atlantic Lib: unknown 8

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

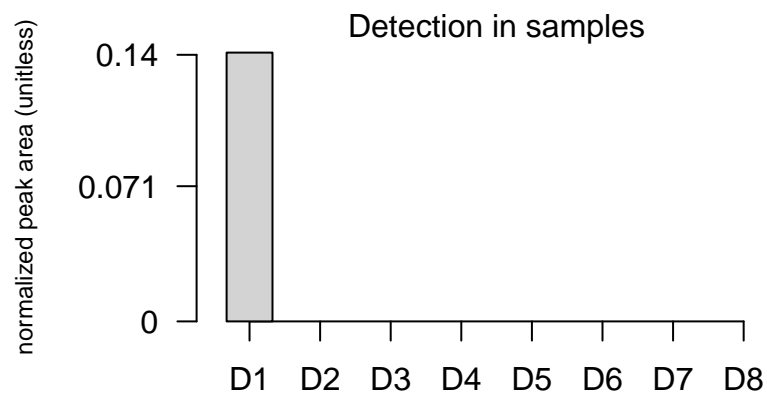
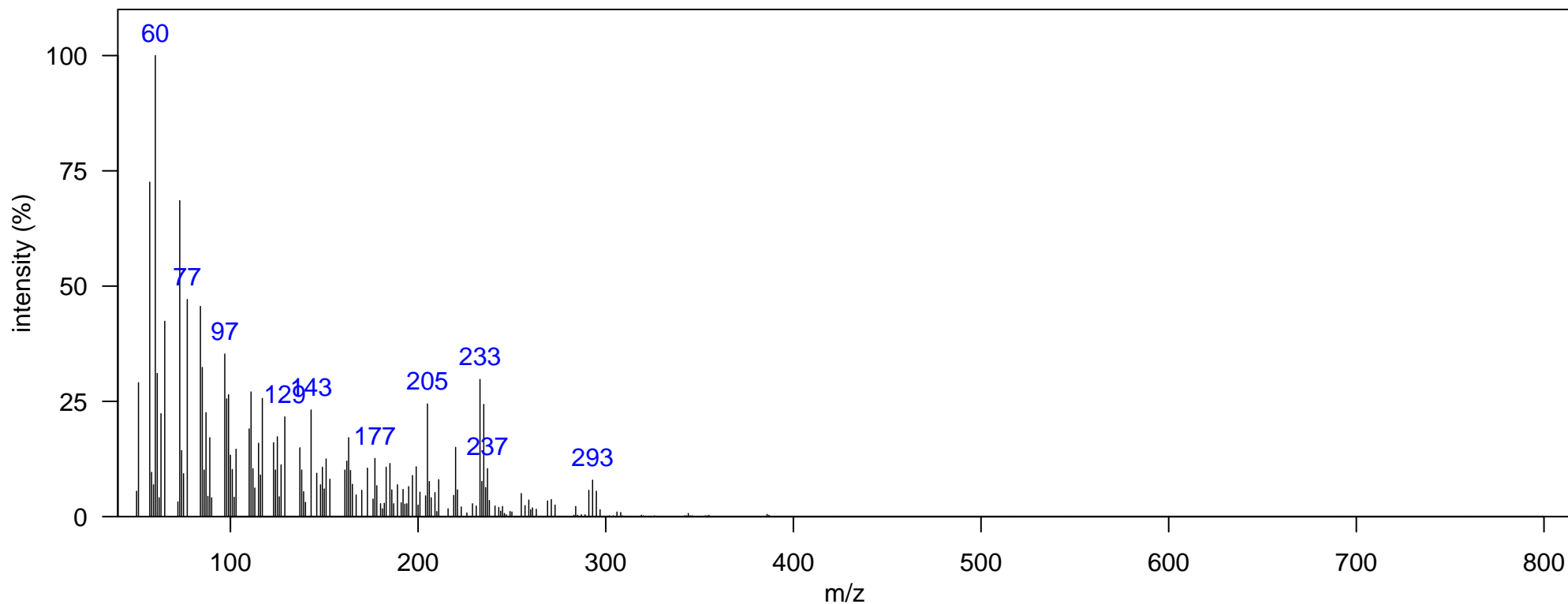
Quantitative Ion m/z: 233

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-15

Class: Unknown

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1292.6, 1.228

Ecotype: coastal

Quantitative Ion m/z: 361

Instrument: GCxGC-TOF, EI, 70 eV

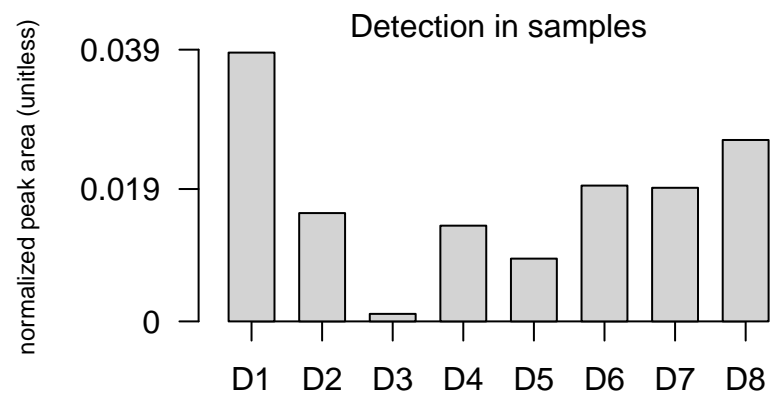
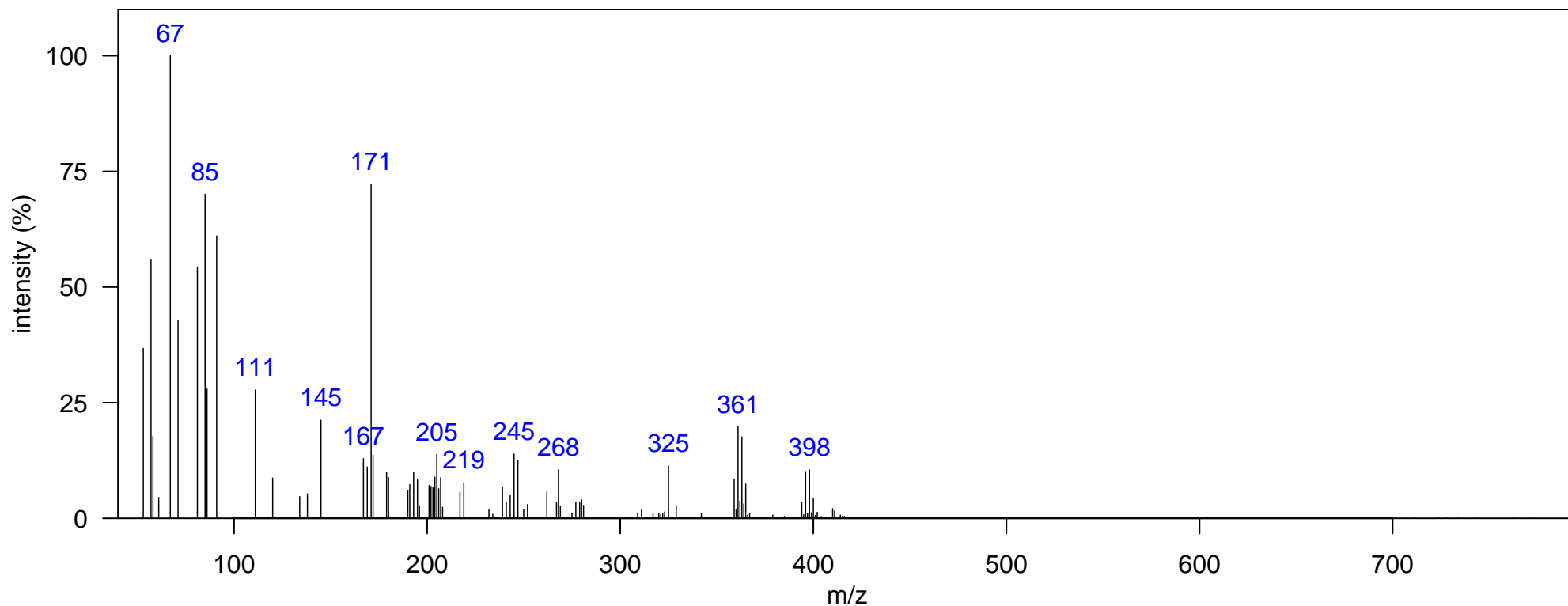
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]

Name: unknown-16

Class: Unknown

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1317.09, 1.267

Ecotype: coastal

Quantitative Ion m/z: 355

Instrument: GCxGC-TOF, EI, 70 eV

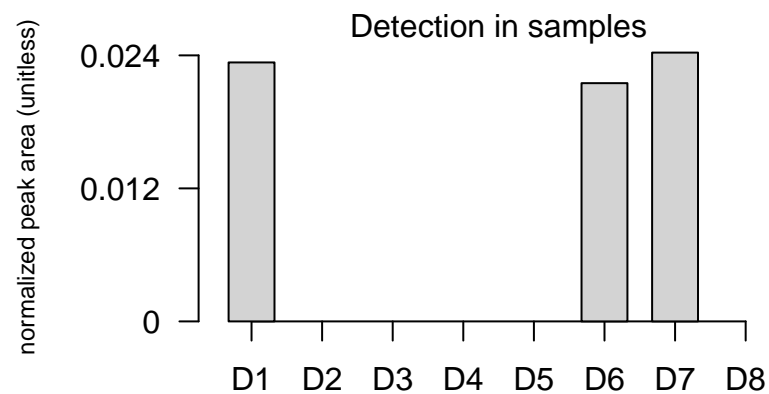
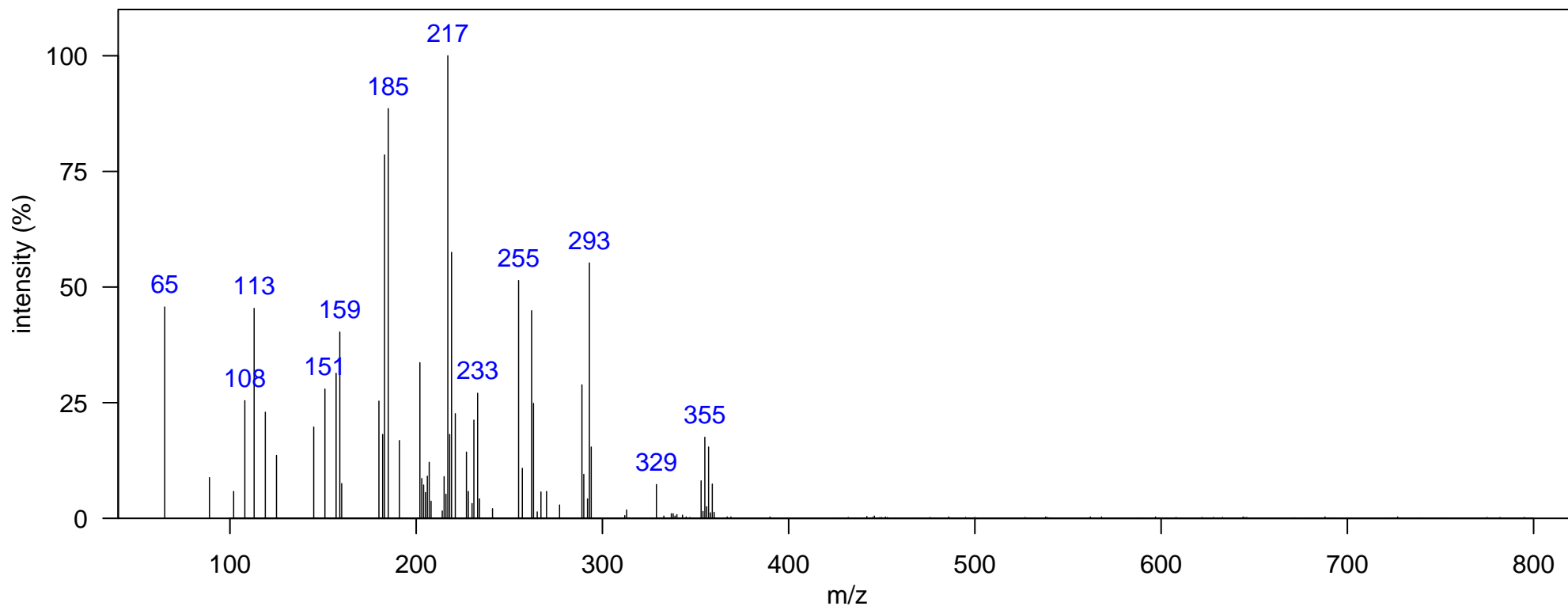
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]



Class: Unknown

Elemental Formula:

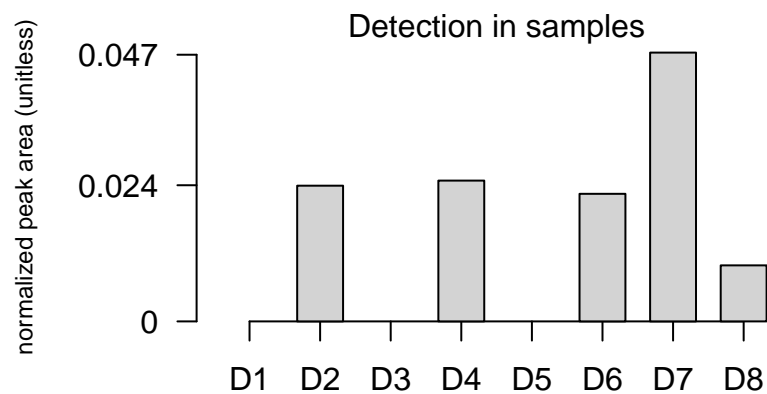
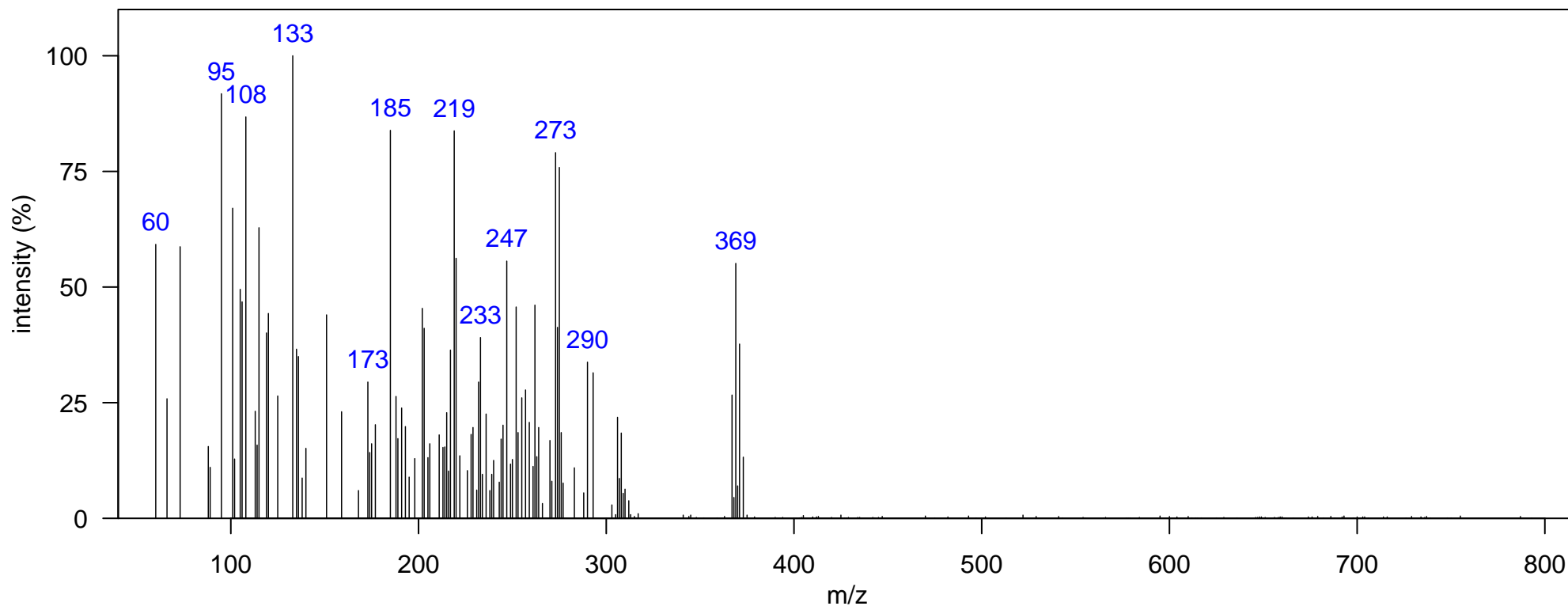
Quantitative Ion m/z: 369

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-18

Class: Unknown

Sample: SoCal dolphin blubber D8, KXD0003 1D RT, 2D RT (s): 1401.04, 0.904

Ecotype: coastal

Quantitative Ion m/z: 199

Instrument: GCxGC-TOF, EI, 70 eV

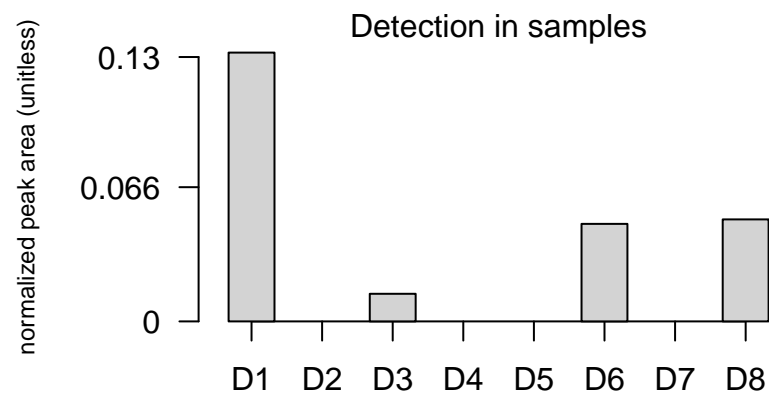
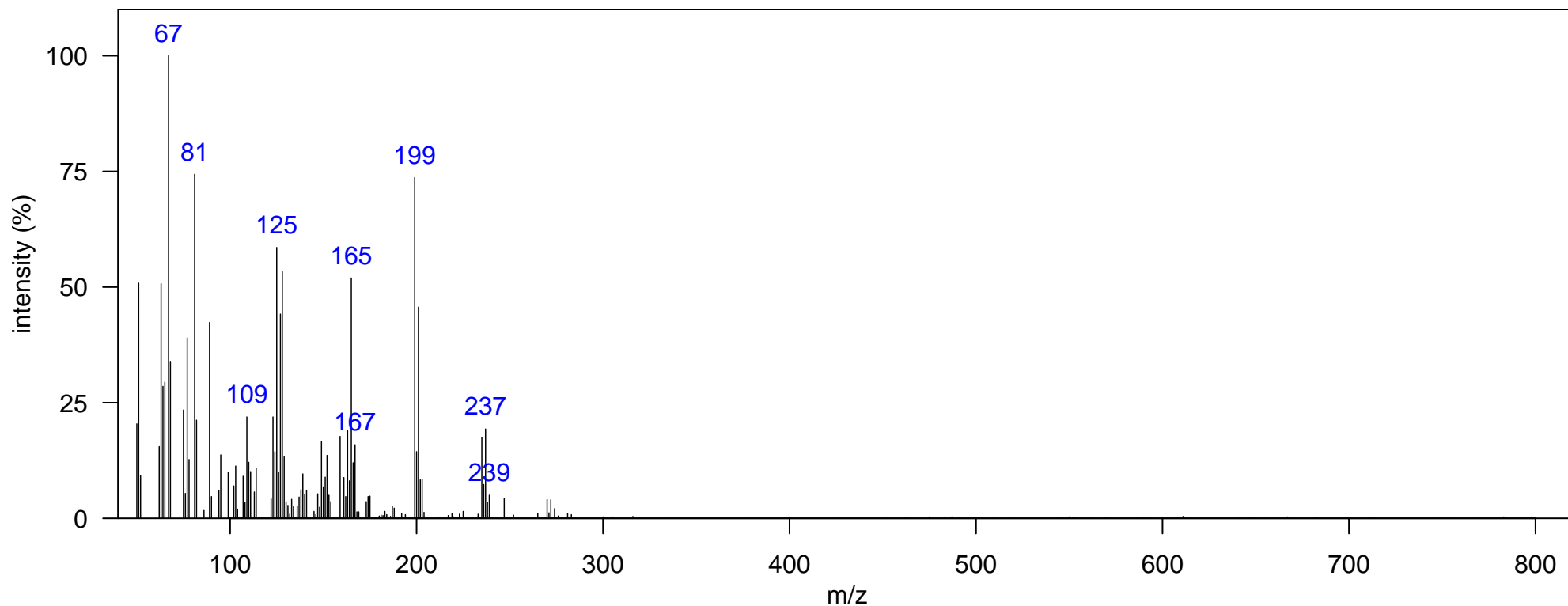
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

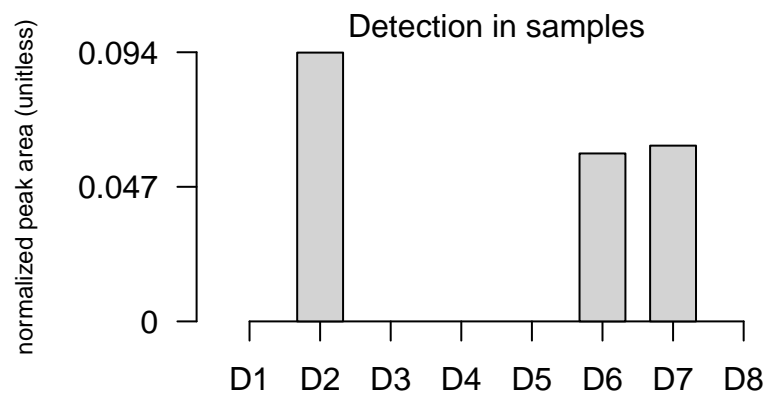
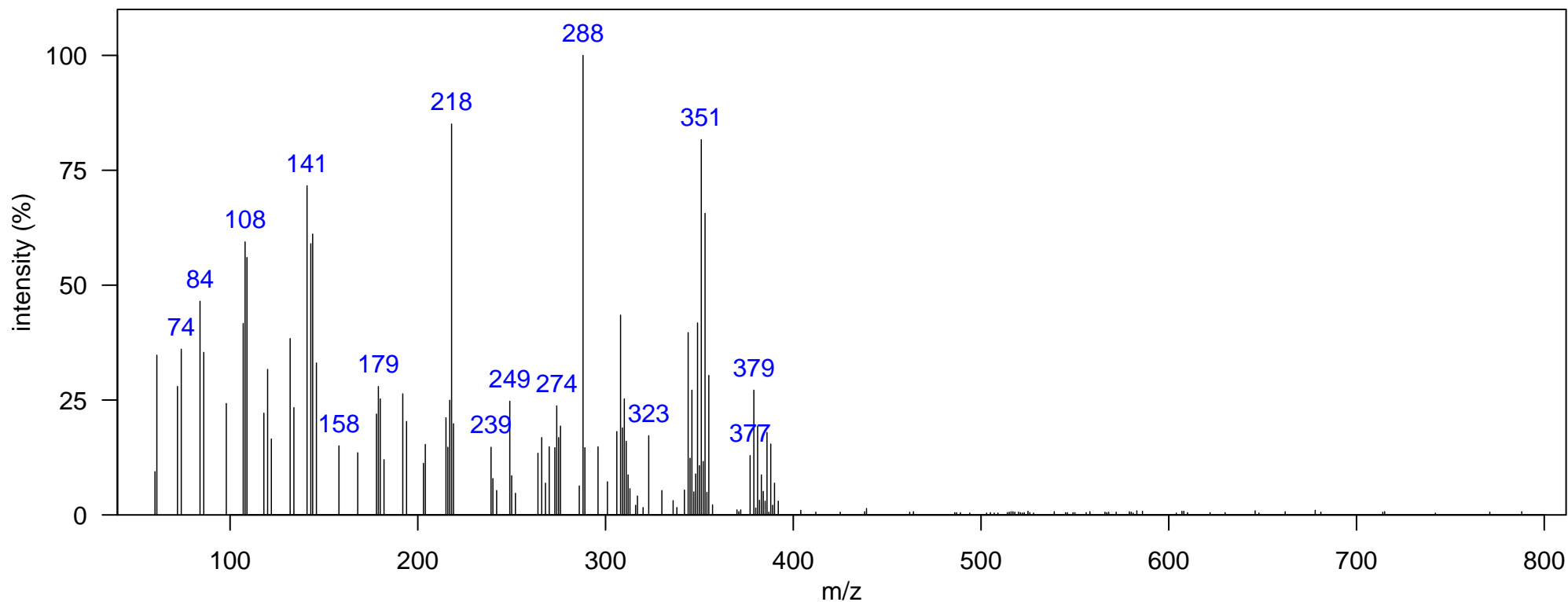
Quantitative Ion m/z: 351

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

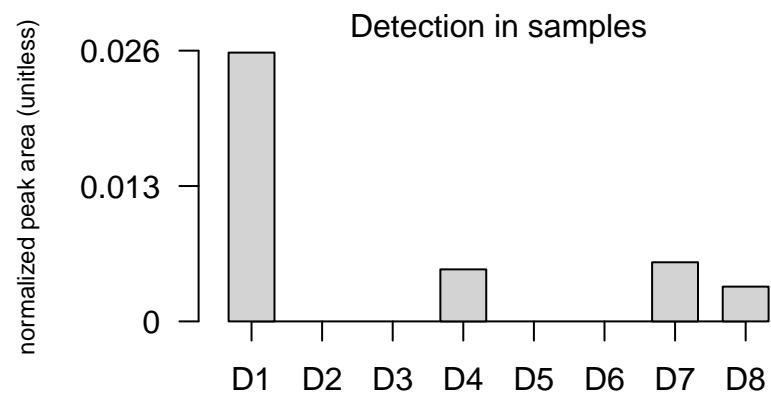
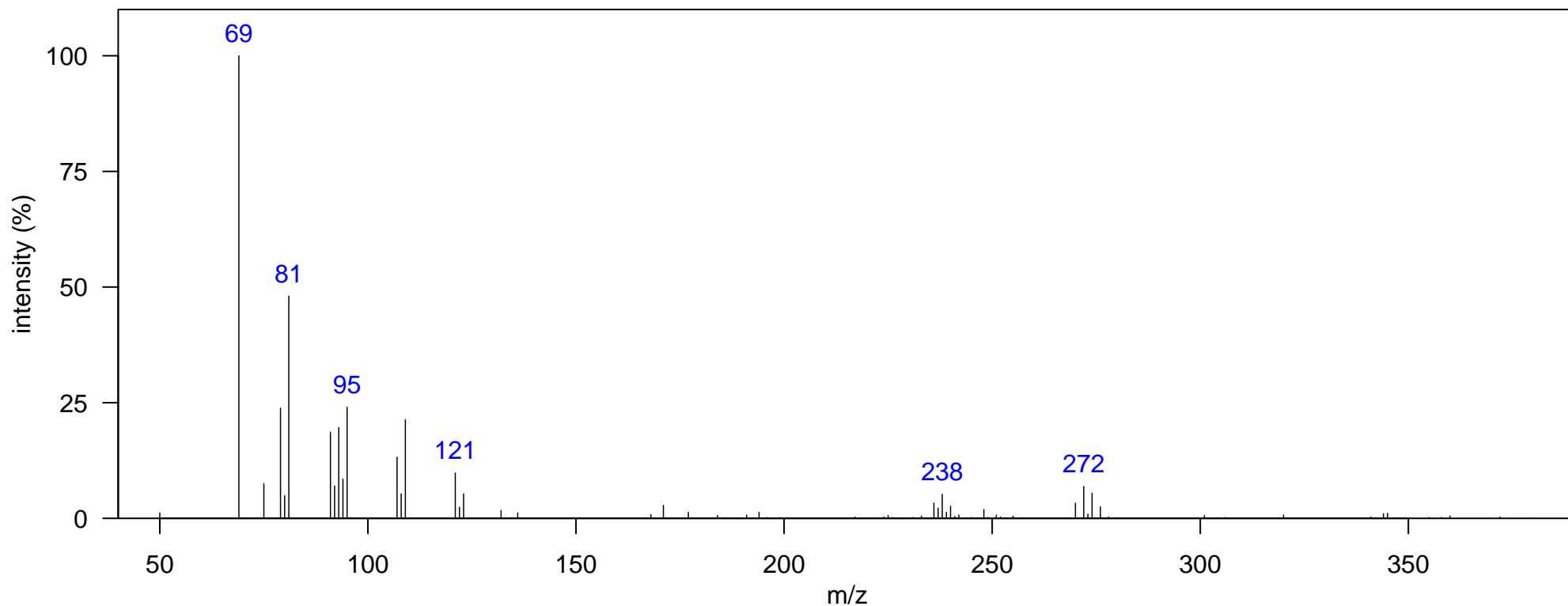
Quantitative Ion m/z: 272

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

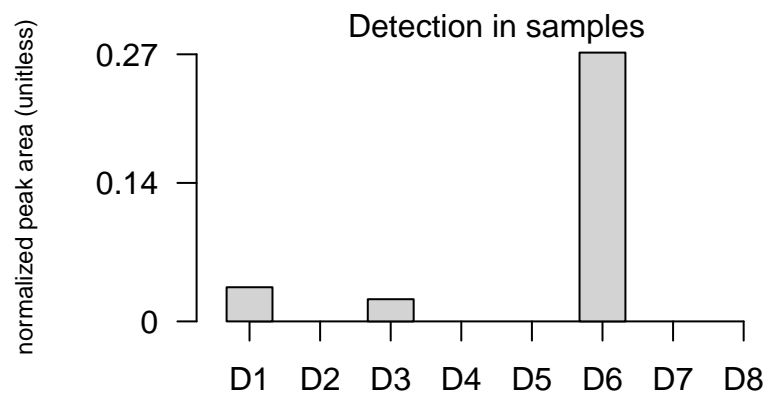
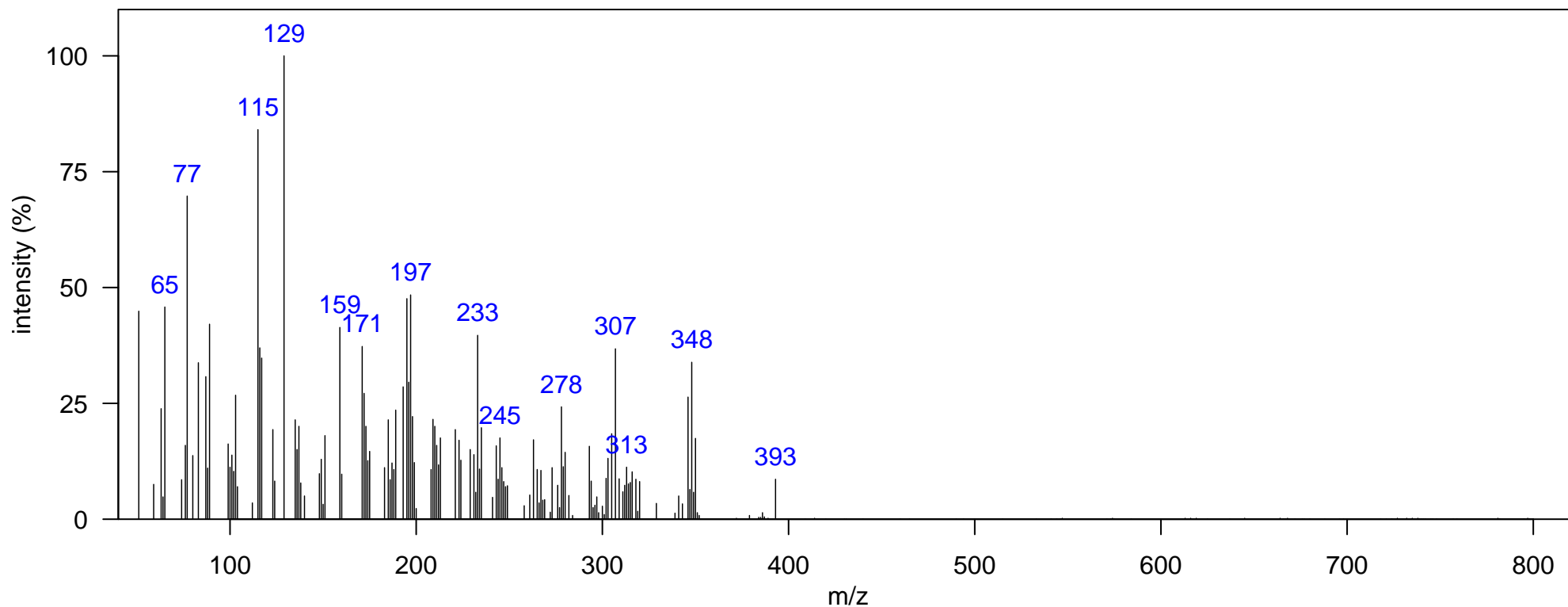
Quantitative Ion m/z: 348

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-22

Class: Unknown

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1471, 1.406

Ecotype: coastal

Quantitative Ion m/z: 342

Instrument: GCxGC-TOF, EI, 70 eV

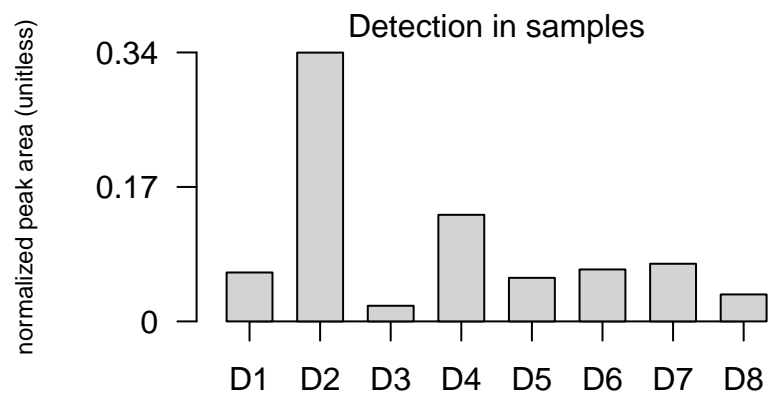
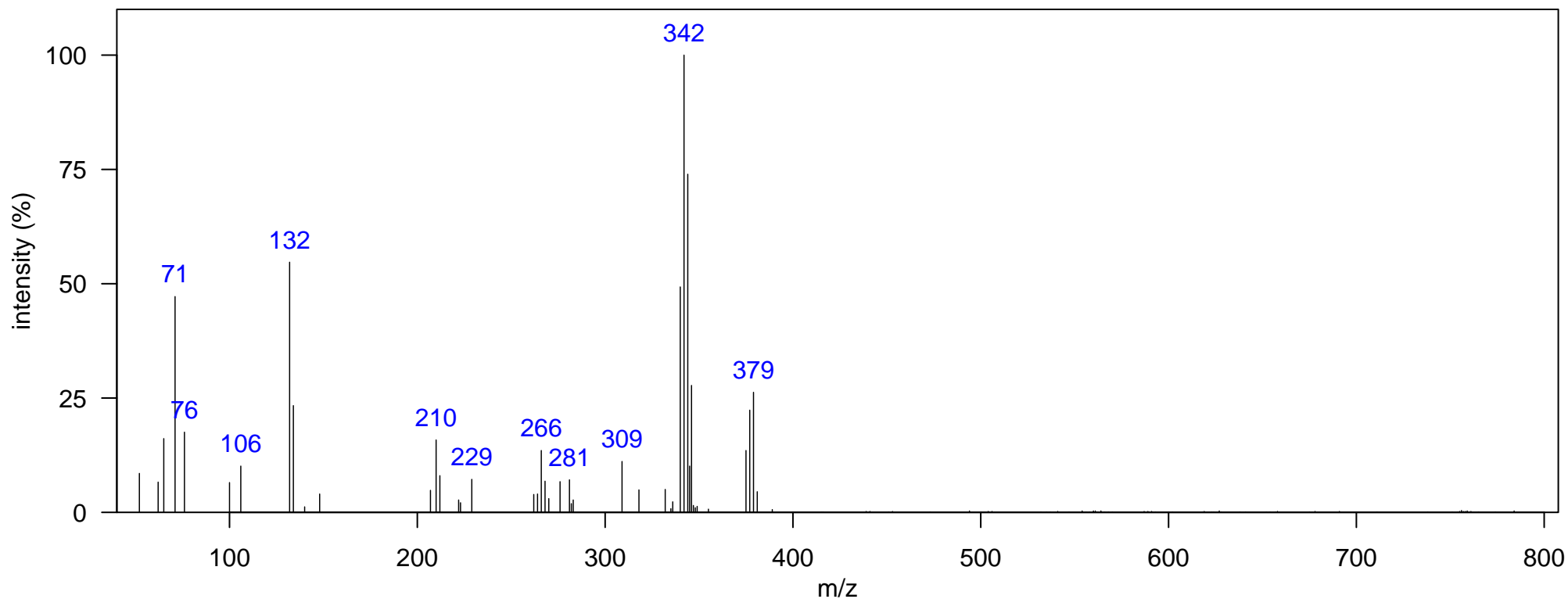
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

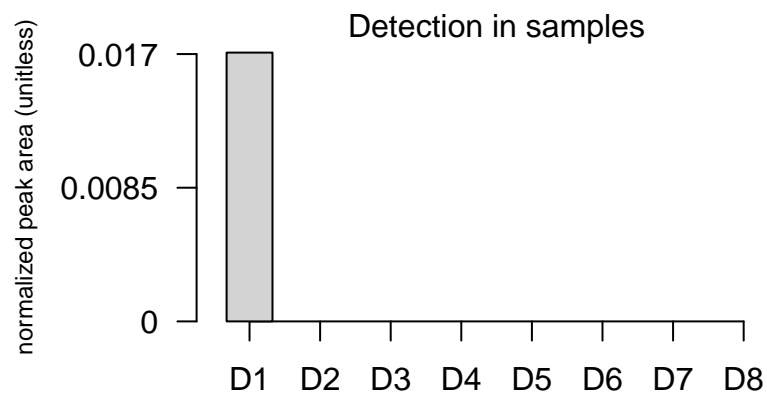
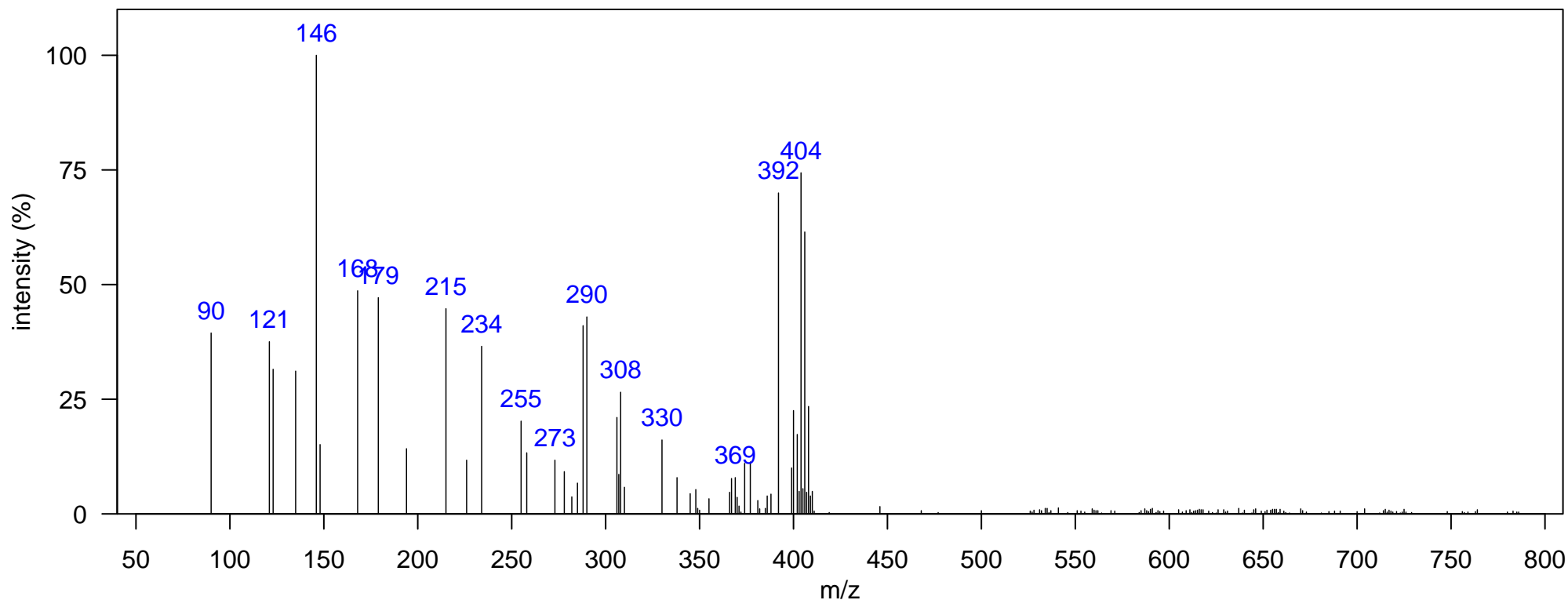
Quantitative Ion m/z: 404

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

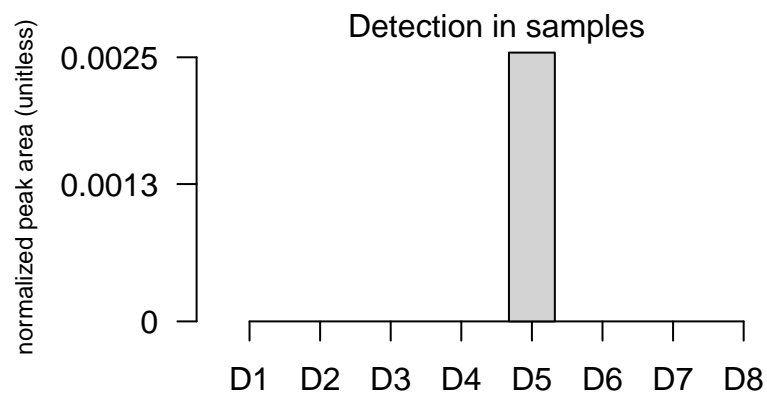
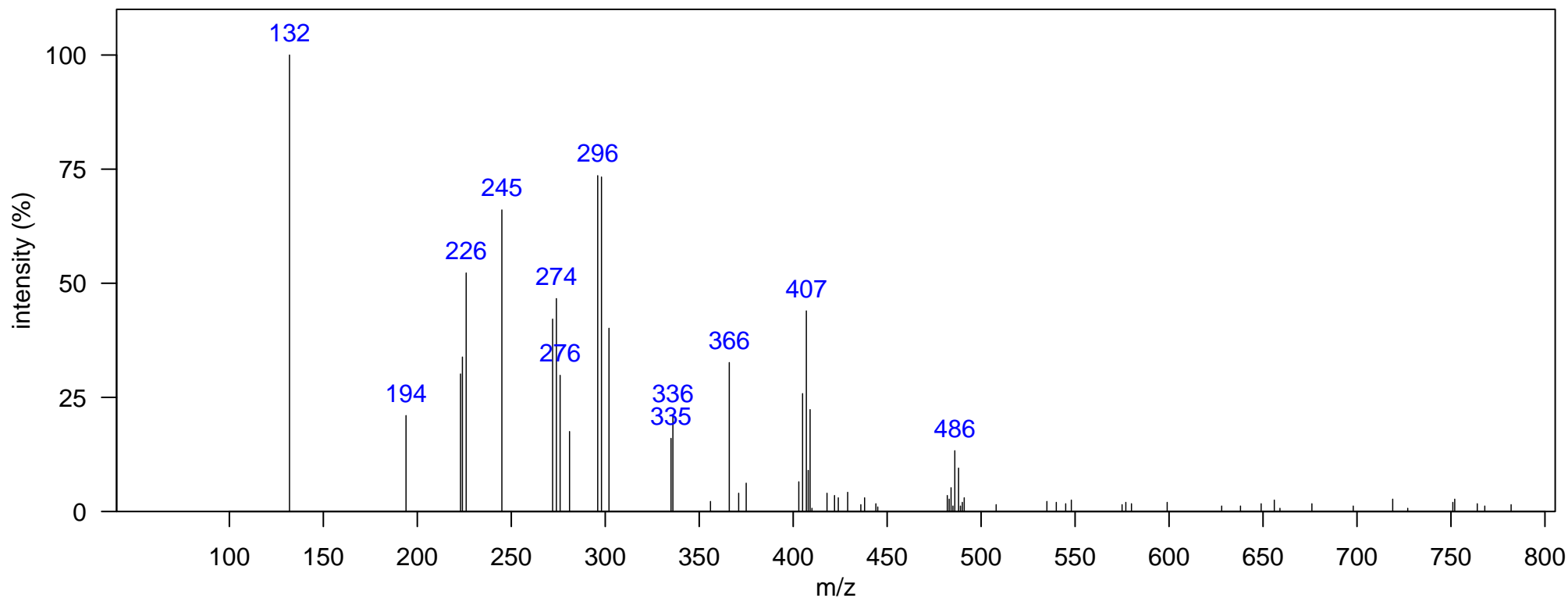
Quantitative Ion m/z: 407

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]



Comment:

Class: Unknown

Elemental Formula:

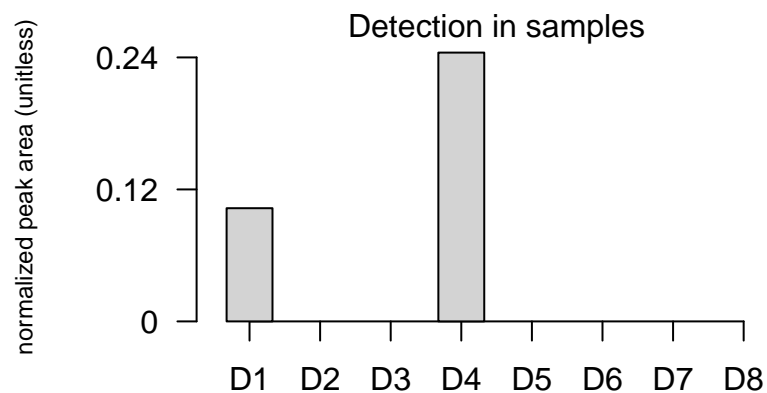
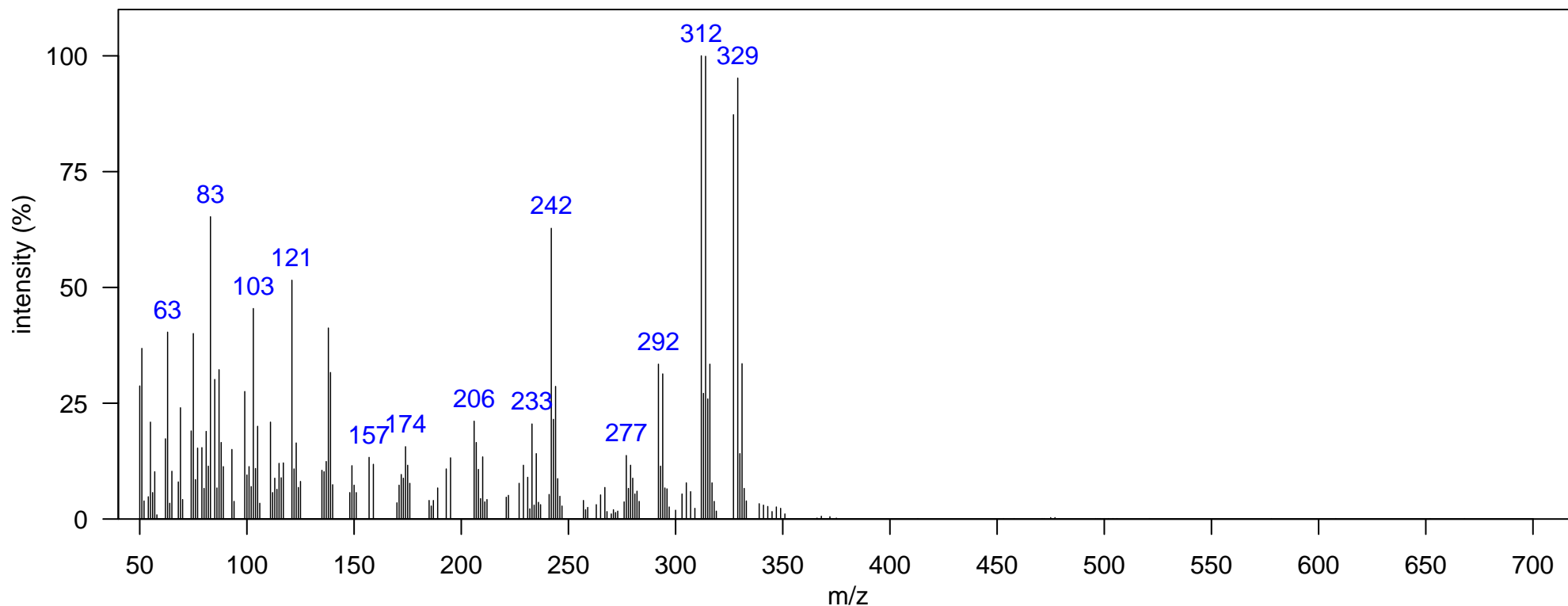
Quantitative Ion m/z: 312

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

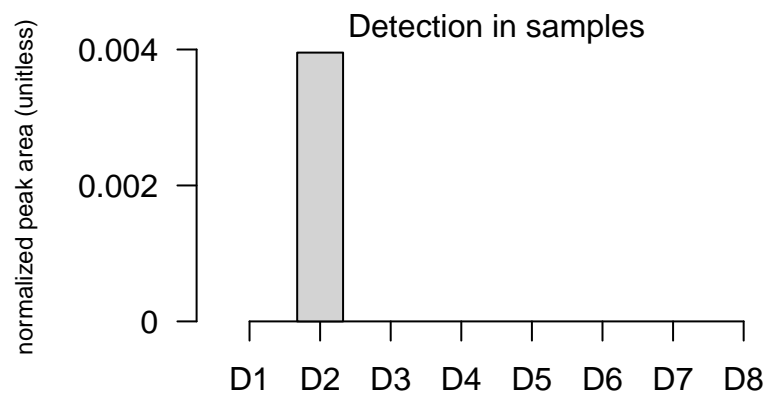
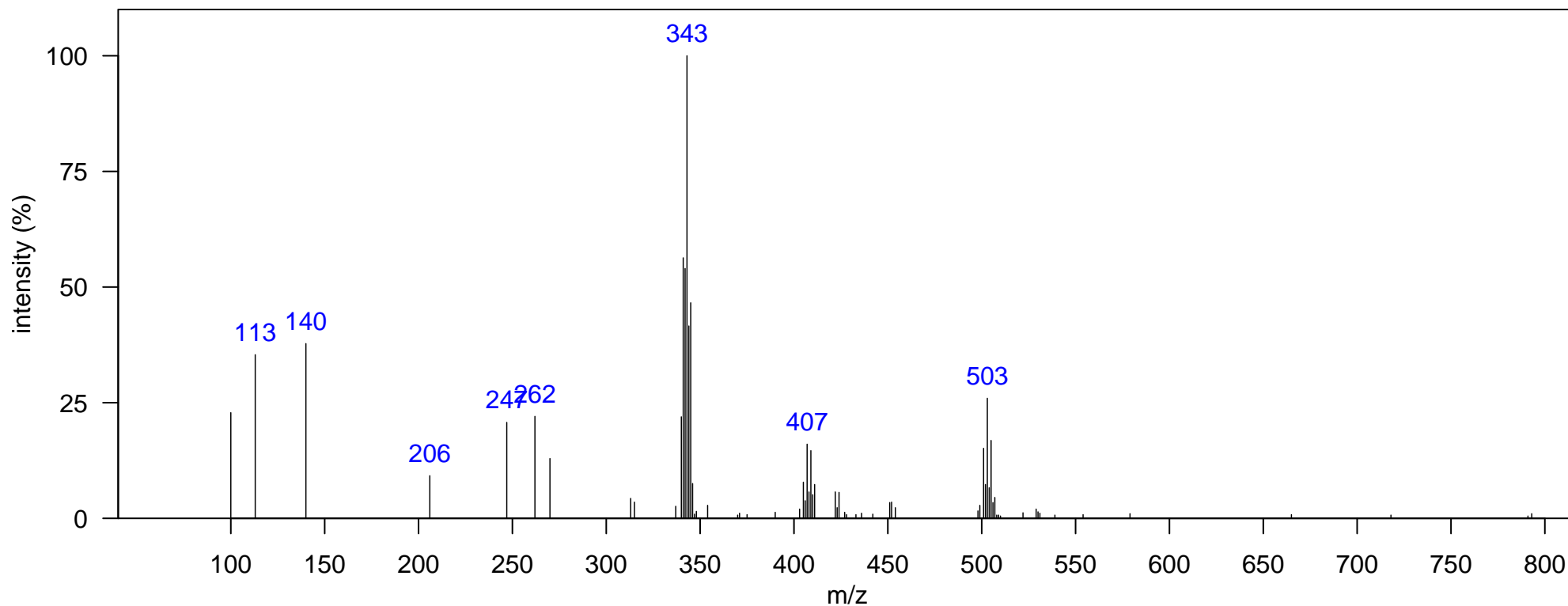
Quantitative Ion m/z: 503

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

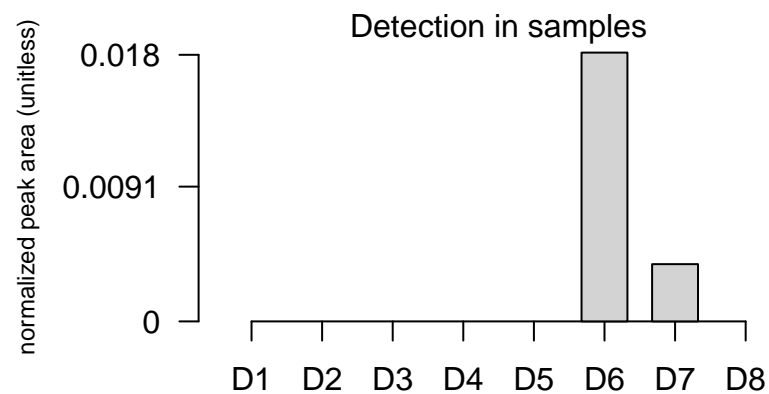
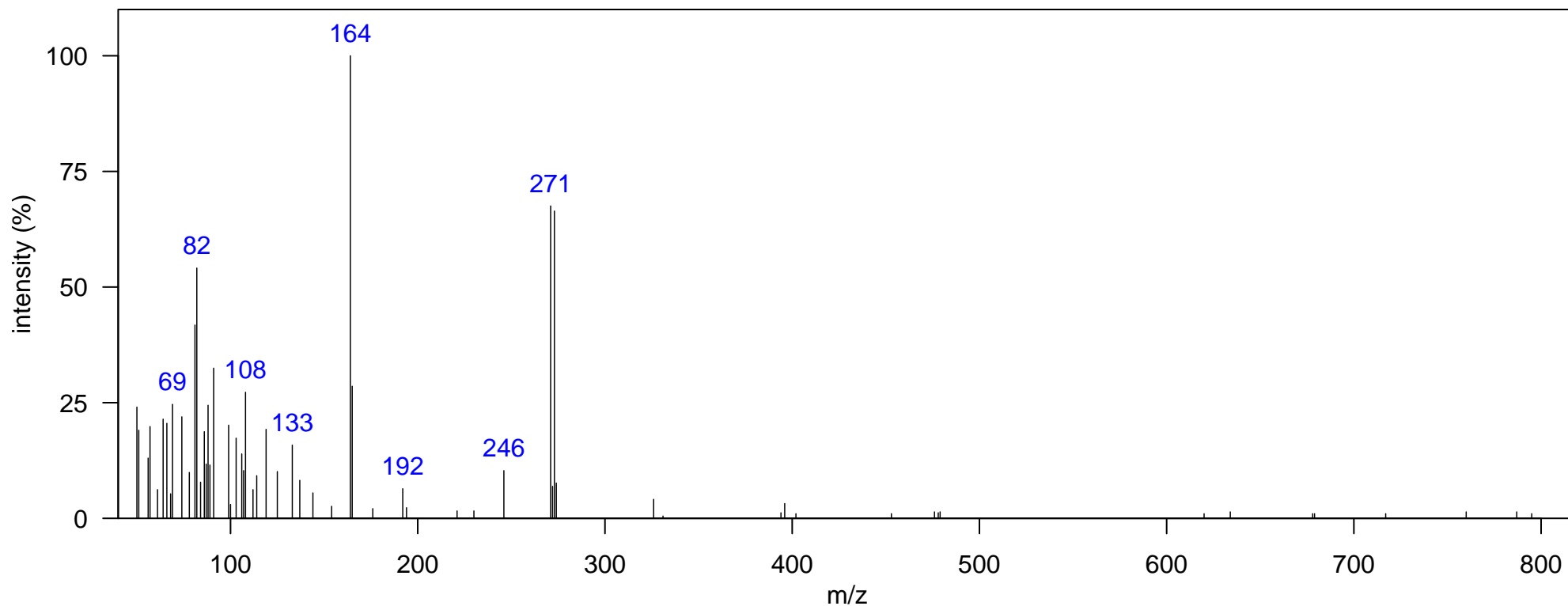
Quantitative Ion m/z: 273

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-29

Class: Unknown

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1533.97, 1.683

Ecotype: coastal

Quantitative Ion m/z: 336

Elemental Formula:

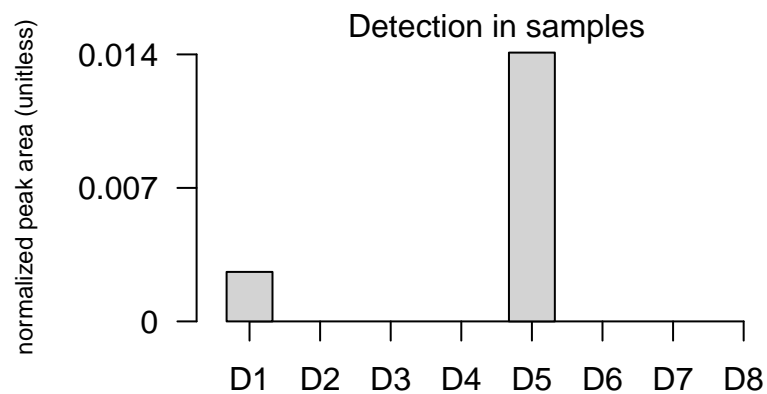
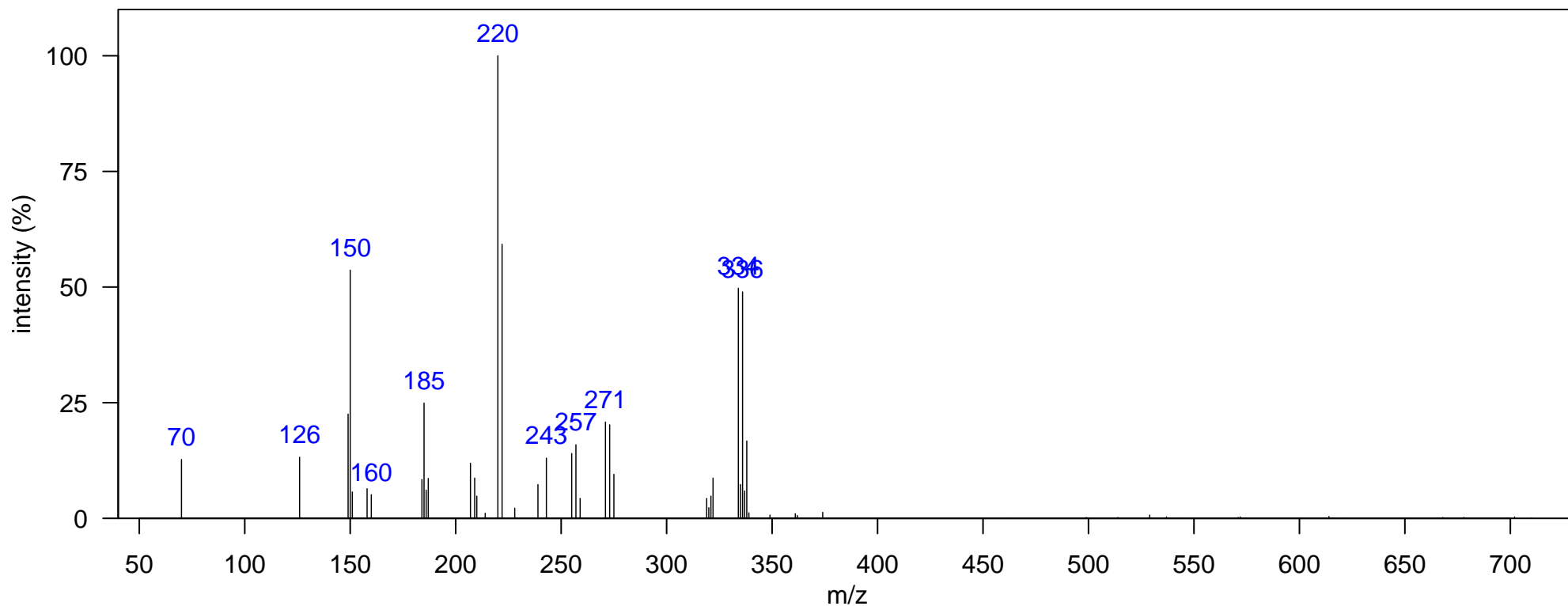
Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Source: unknown

Comment:

Identification:



m/z [Fragment]

Name: unknown-30

Class: Unknown

Sample: SoCal dolphin blubber D2, DSJ2195 1D RT, 2D RT (s): 1540.96, 1.591

Ecotype: offshore

Quantitative Ion m/z: 437

Instrument: GCxGC-TOF, EI, 70 eV

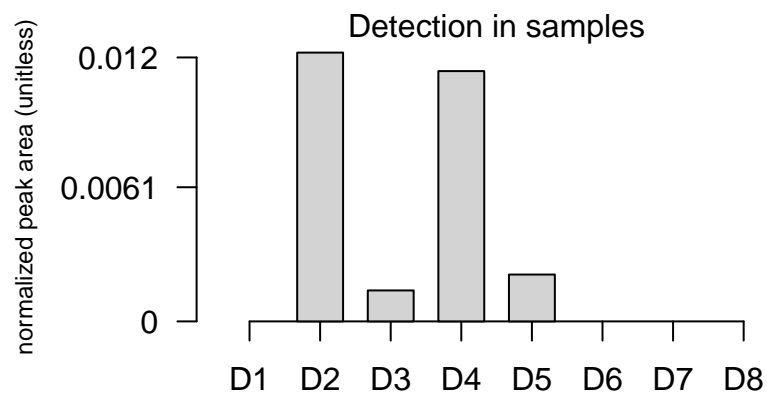
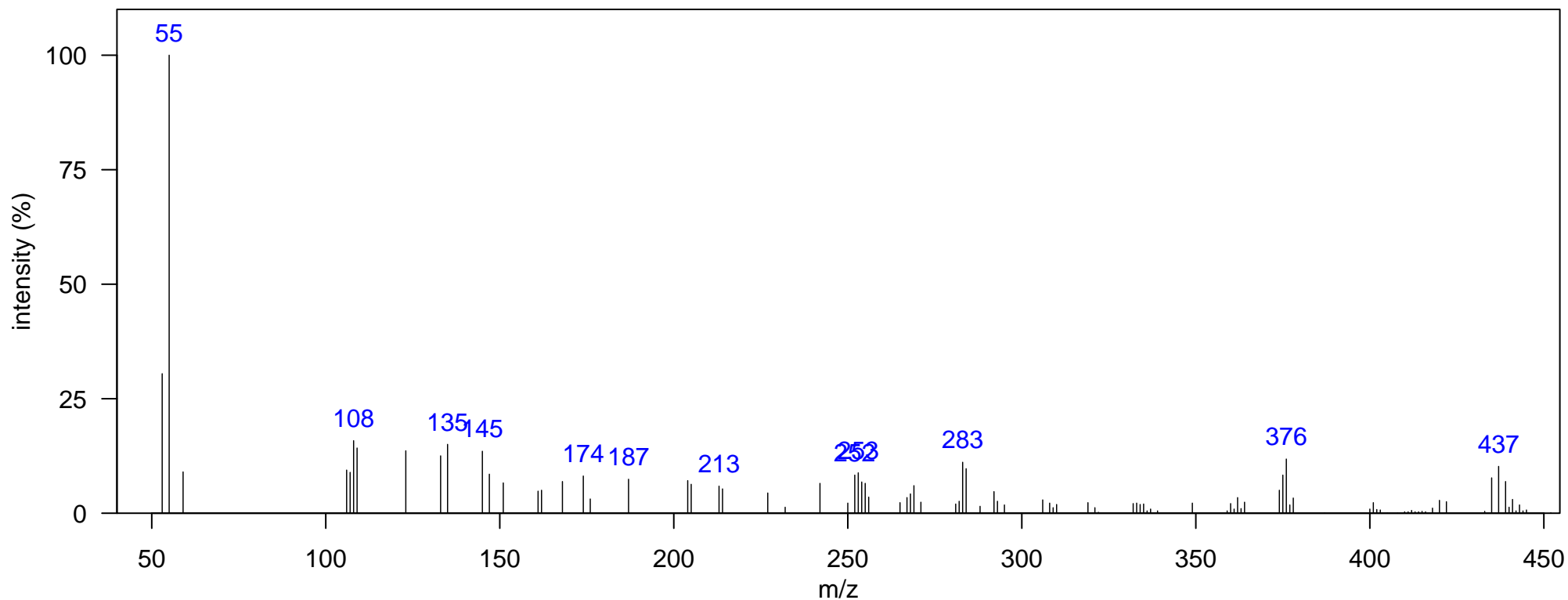
Atlantic Lib:

Elemental Formula: C<sub>11</sub>H<sub>5</sub>Cl<sub>7</sub>N<sub>4</sub>

Source: unknown

Comment: NIST ID: 1,3,5-triazine, 2-[(3,4-dichlorophenyl)thio]-4,6-bis(trichloromethyl)-

Identification:



m/z [Fragment]

Name: unknown-31

Class: Unknown

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1544.46, 1.195

Ecotype: offshore

Quantitative Ion m/z: 273

Instrument: GCxGC-TOF, EI, 70 eV

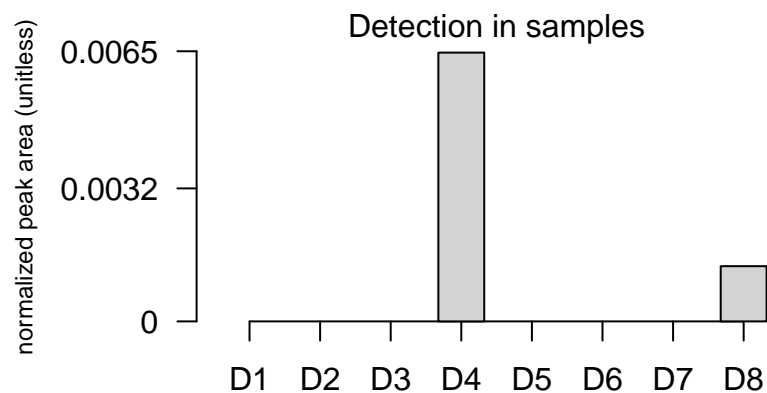
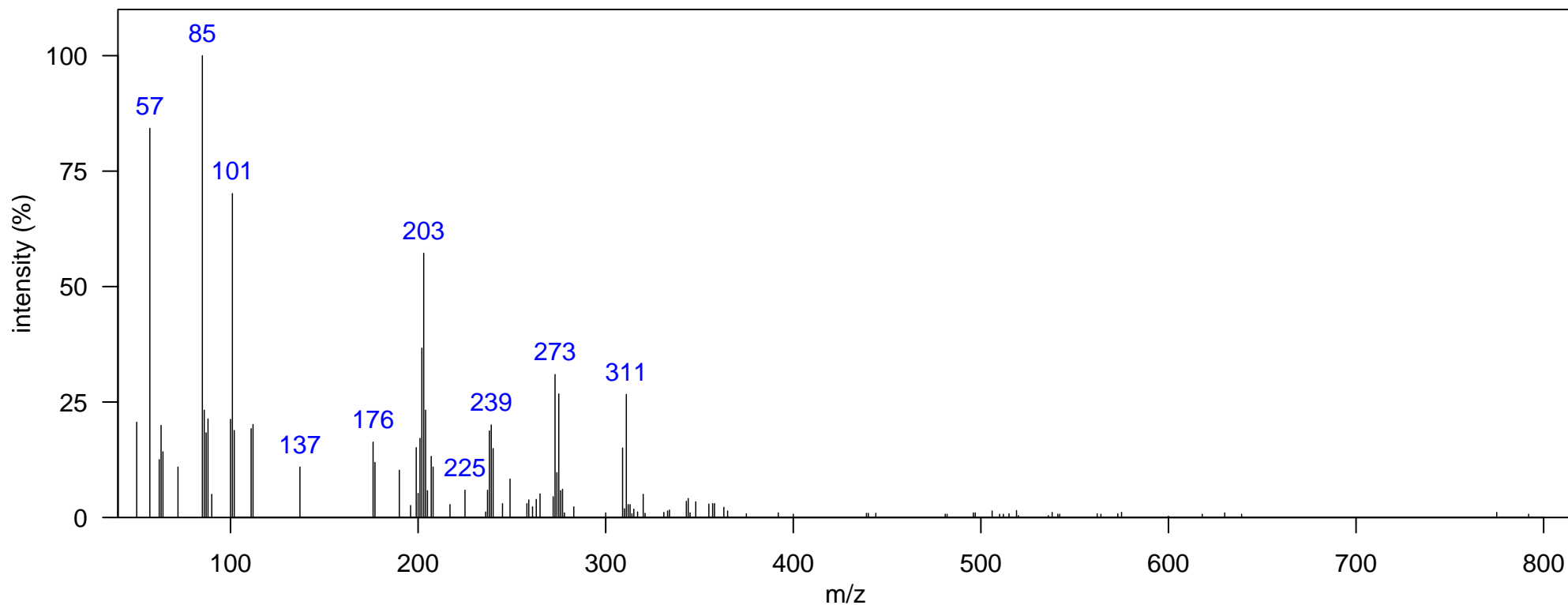
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

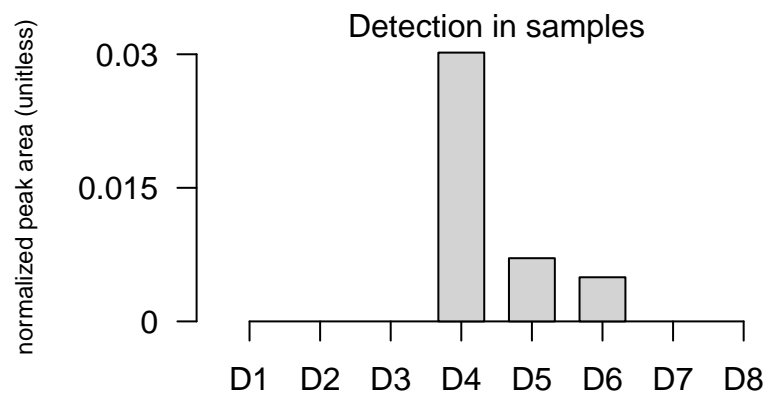
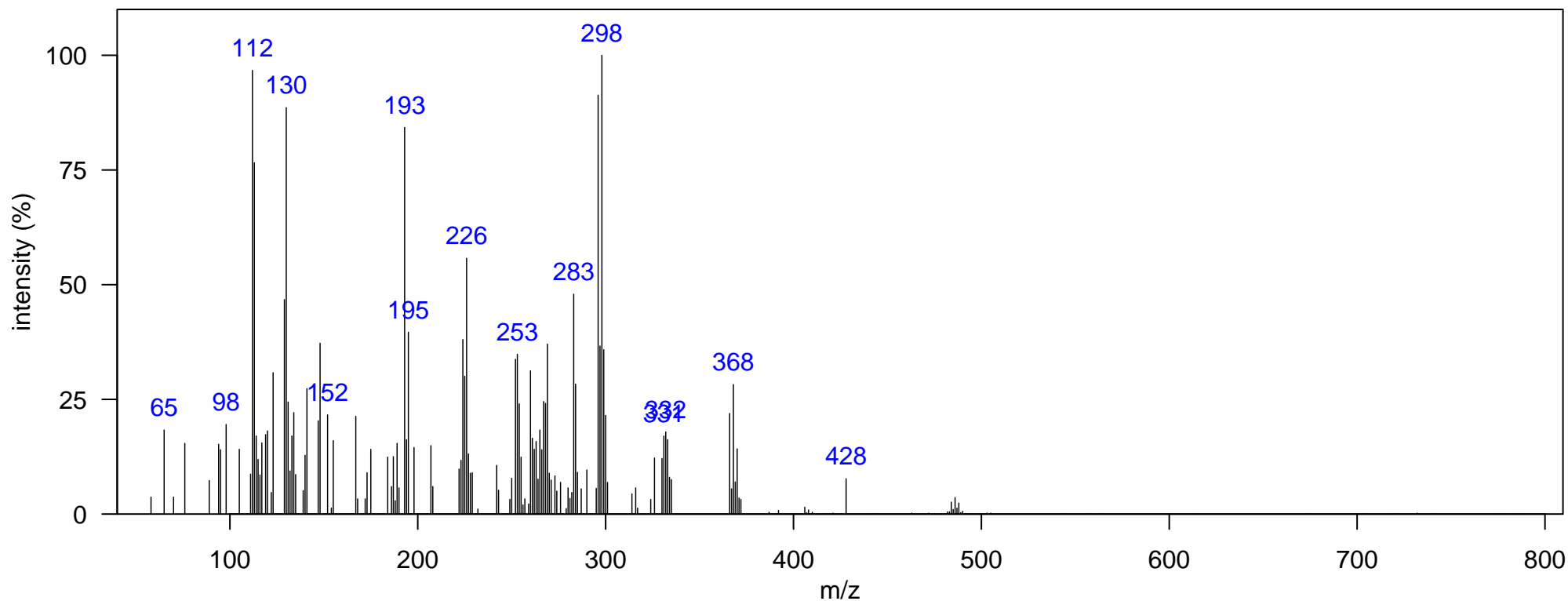
Quantitative Ion m/z: 368

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]



Class: Unknown

Elemental Formula:

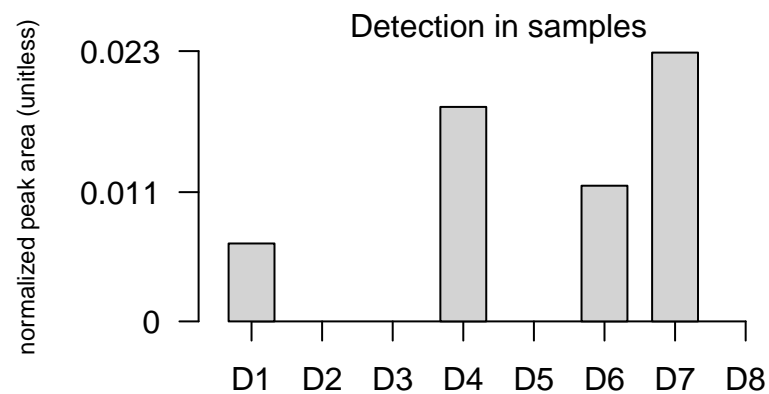
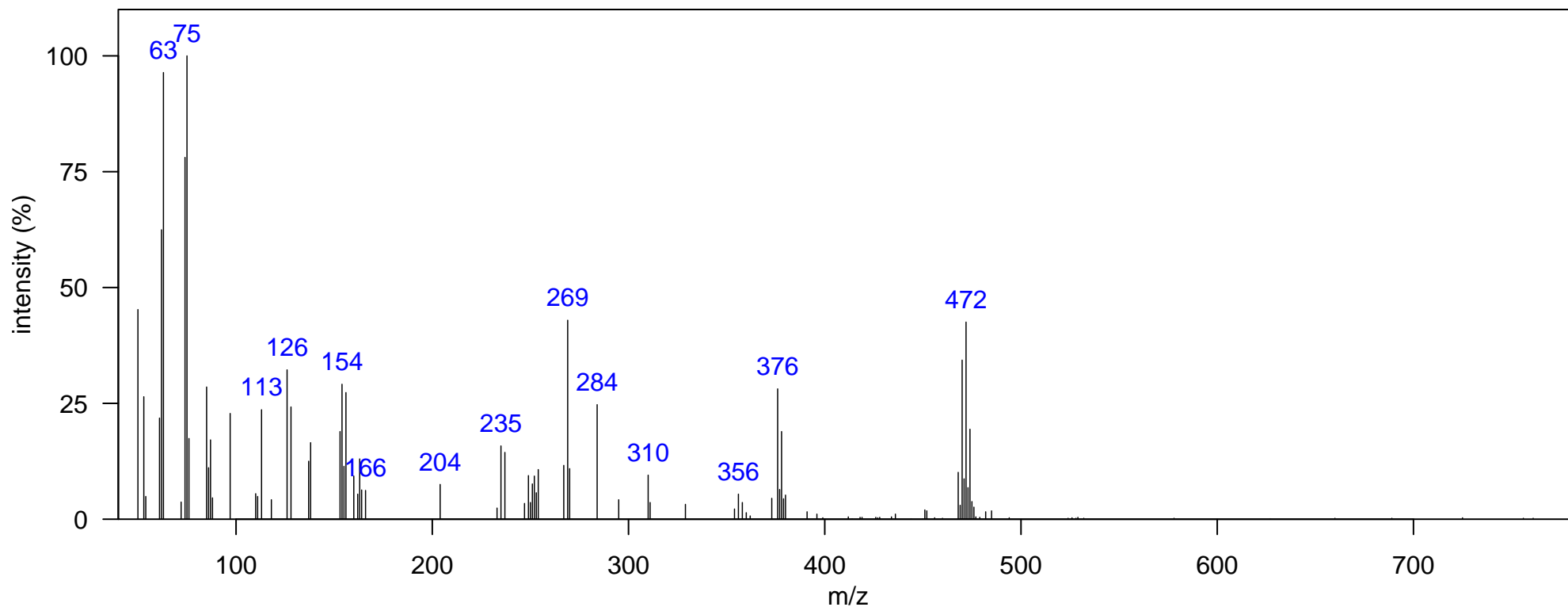
Quantitative Ion m/z: 472

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-34

Class: Unknown

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1551.46, 1.591

Ecotype: offshore

Quantitative Ion m/z: 439

Instrument: GCxGC-TOF, EI, 70 eV

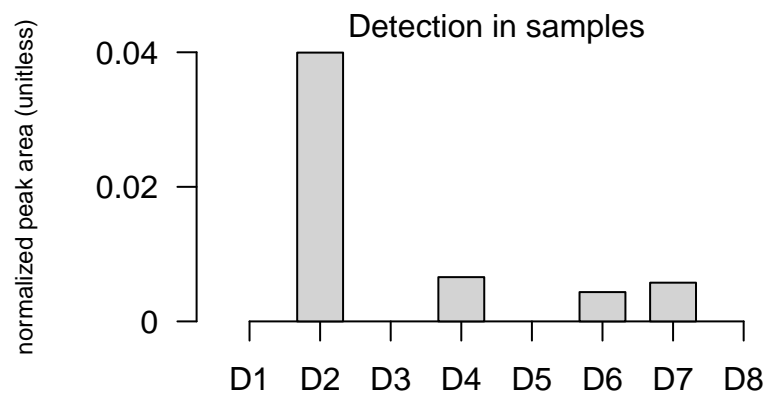
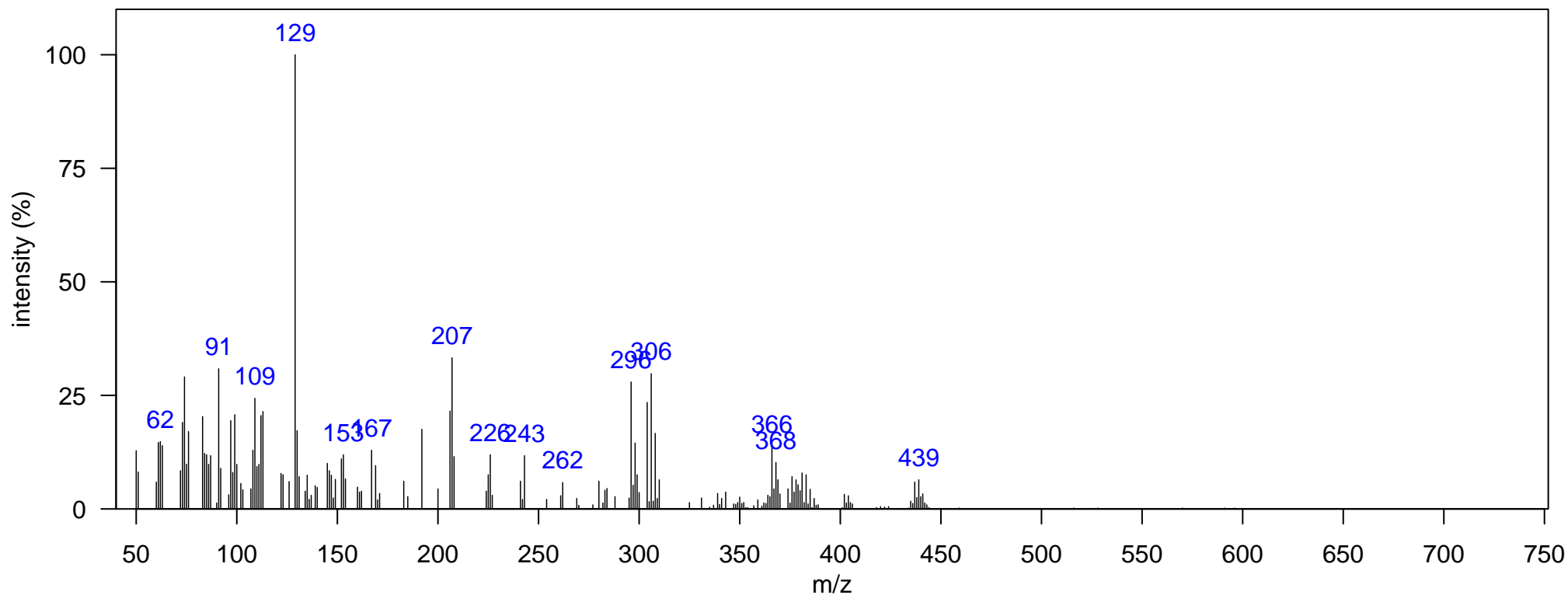
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

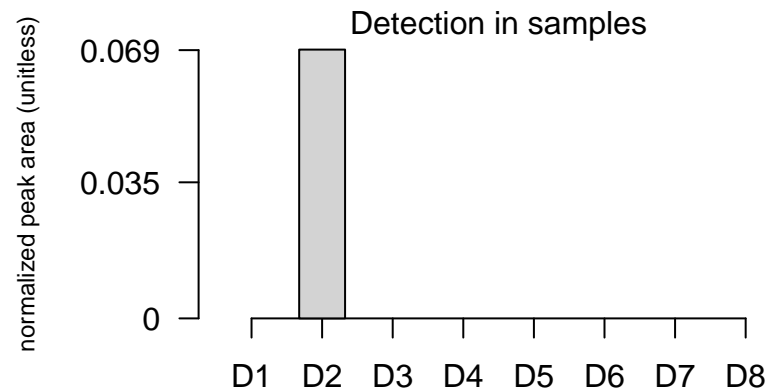
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

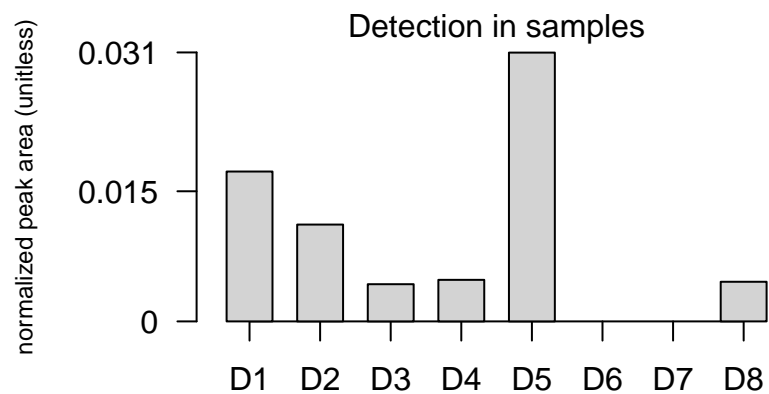
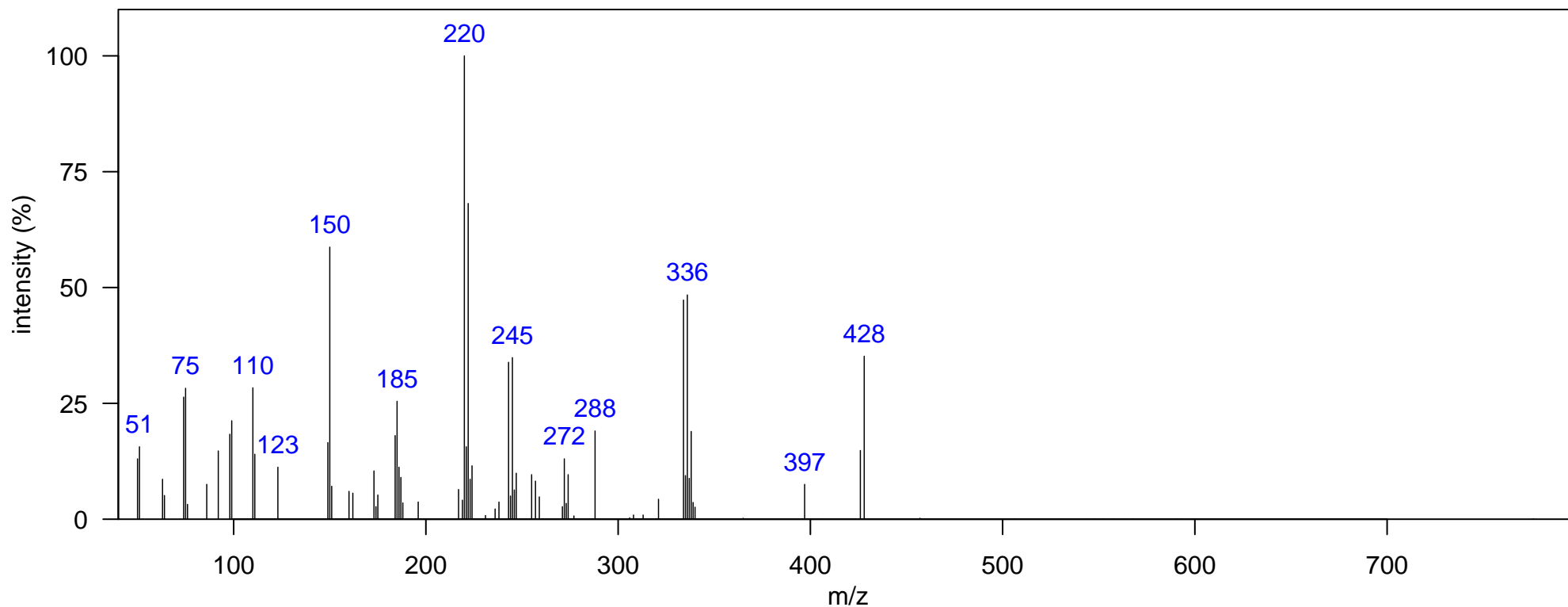
Quantitative Ion m/z: 336

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

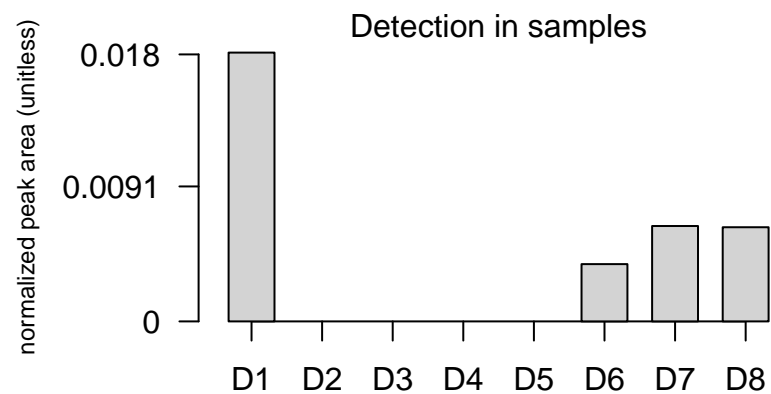
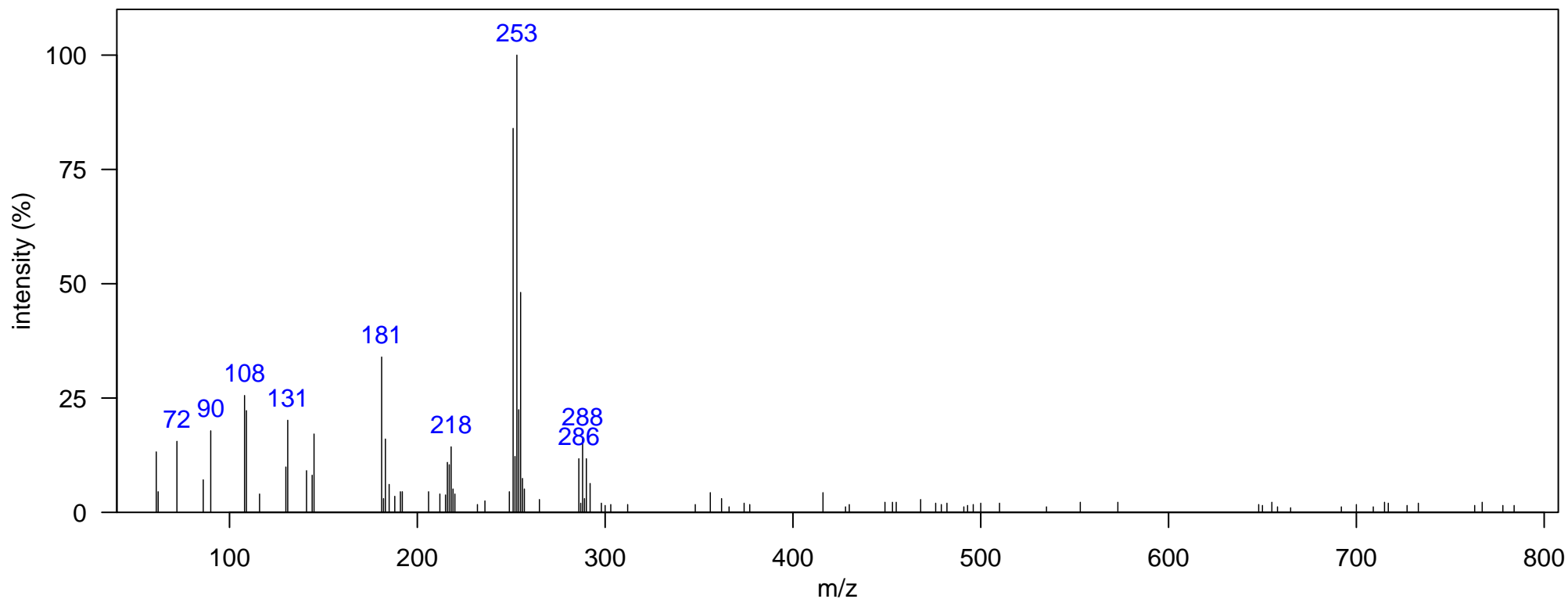
Quantitative Ion m/z: 251

Source: unknown

Atlantic Lib:

Identification:

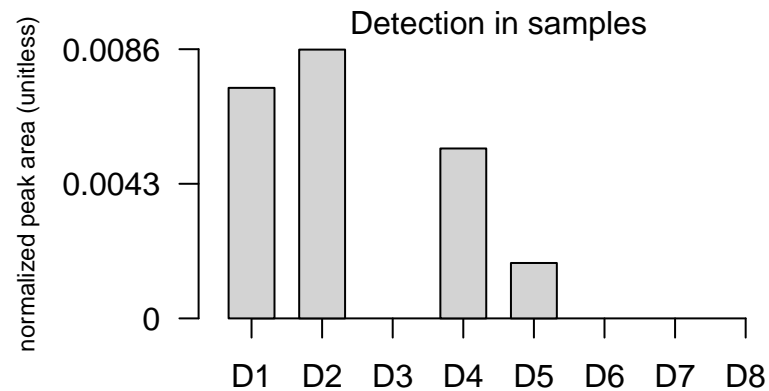
Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Name: unknown-39

Class: Unknown

Sample: SoCal dolphin blubber D5, JEH0472 1D RT, 2D RT (s): 1586.44, 1.901

Ecotype: coastal

Quantitative Ion m/z: 336

Instrument: GCxGC-TOF, EI, 70 eV

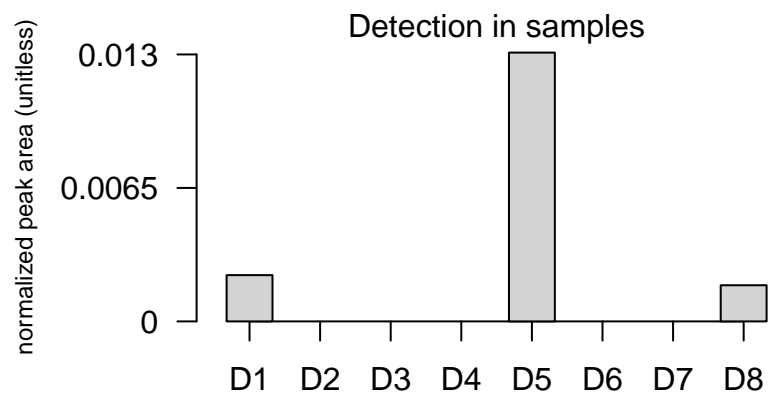
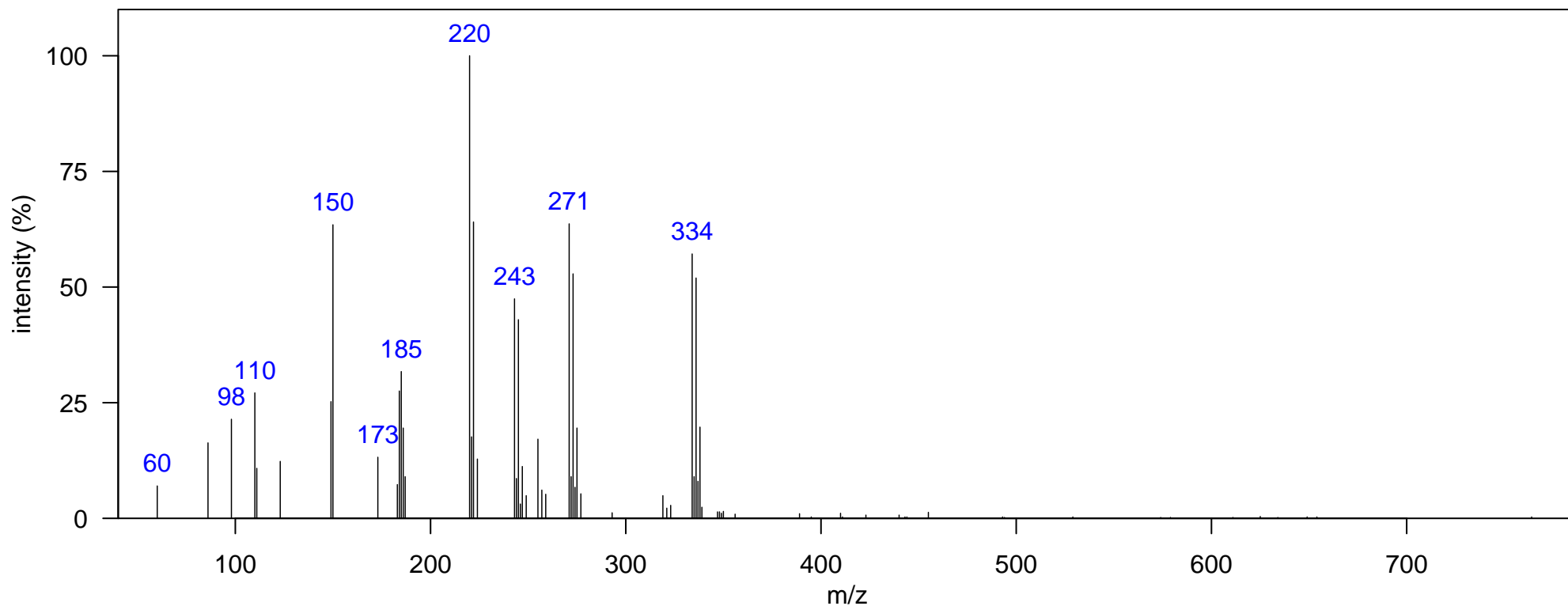
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

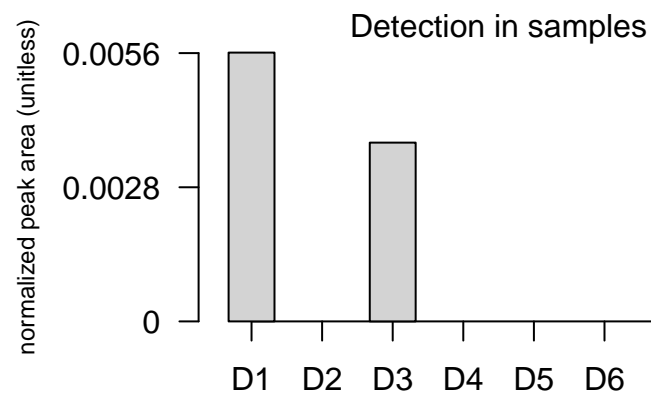
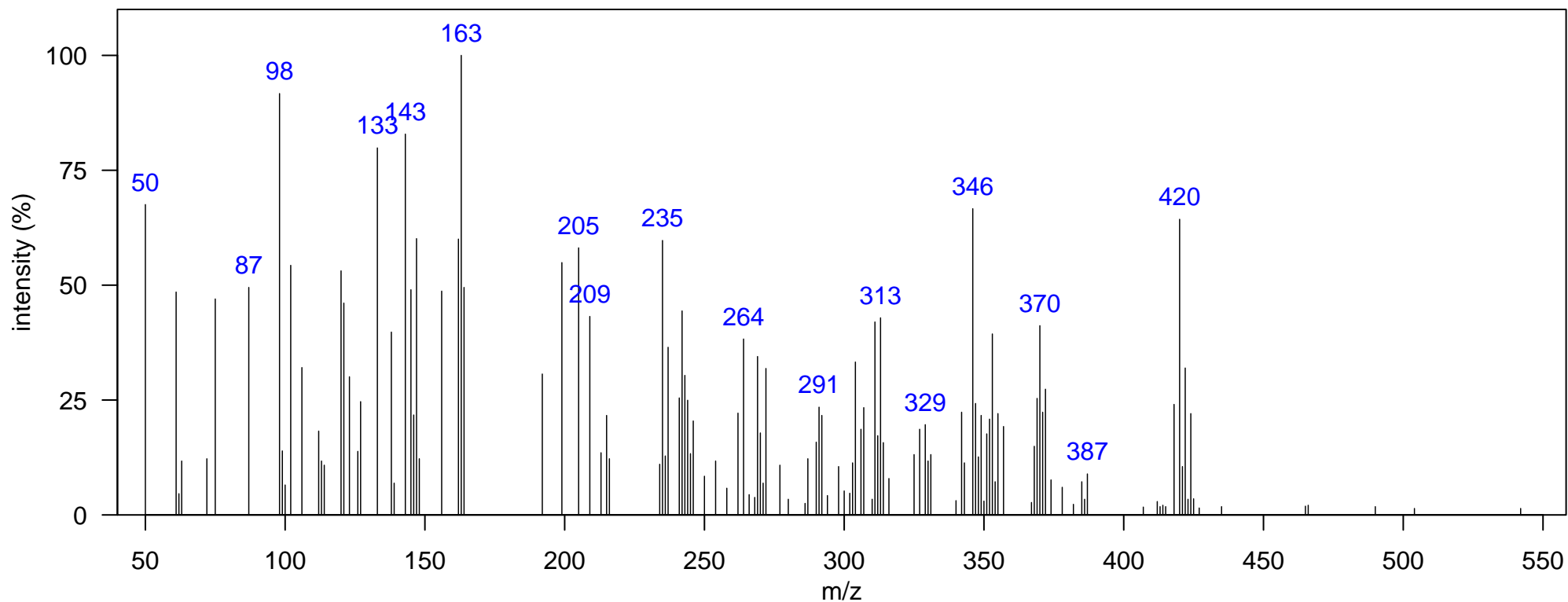
Quantitative Ion m/z: 420

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]



Class: Unknown

Elemental Formula:

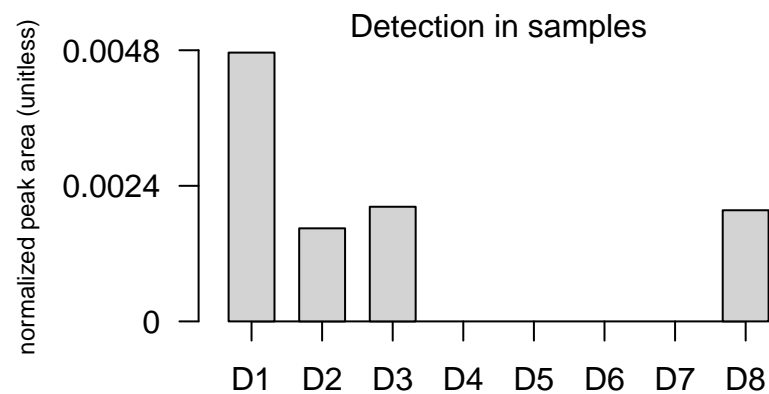
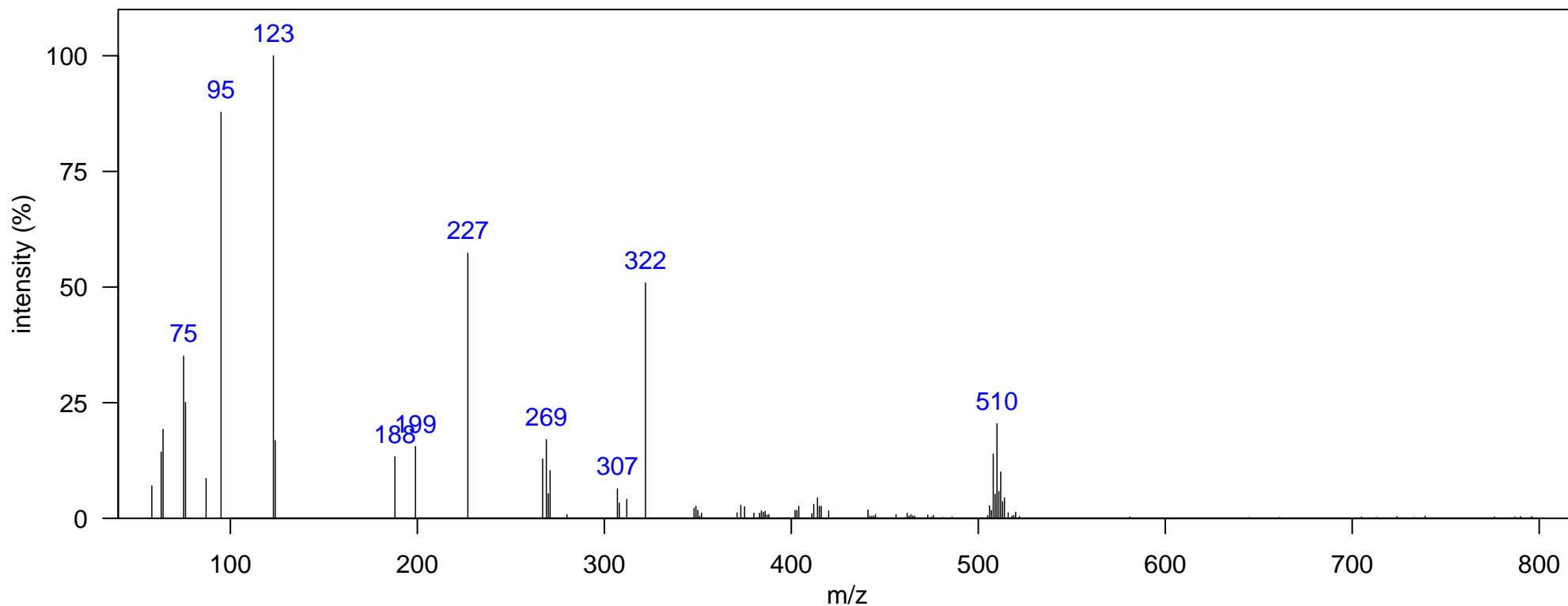
Quantitative Ion m/z: 510

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

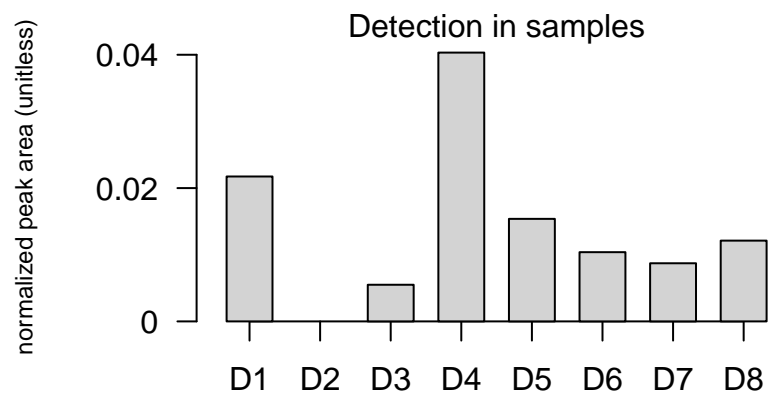
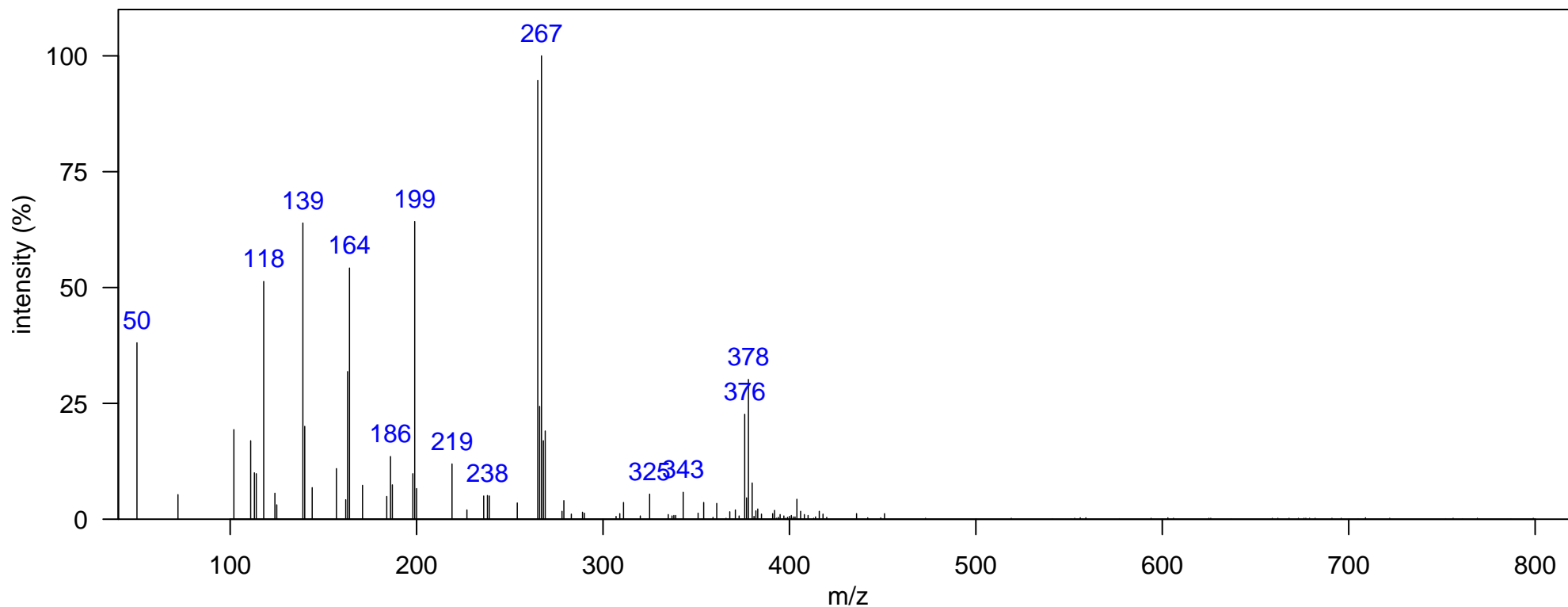
Quantitative Ion m/z: 378

Source: unknown

Atlantic Lib:

Identification:

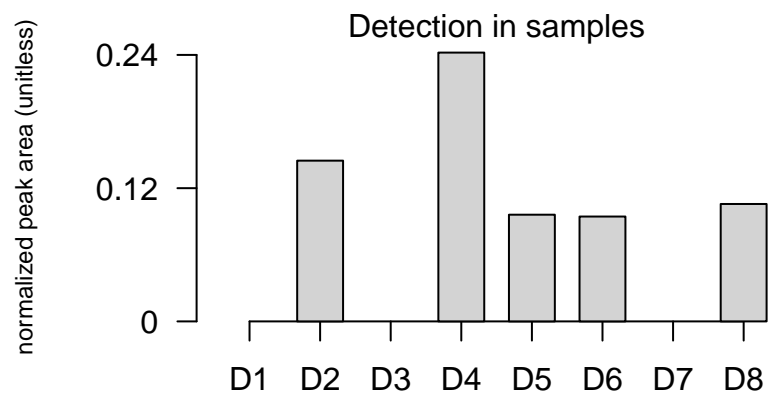
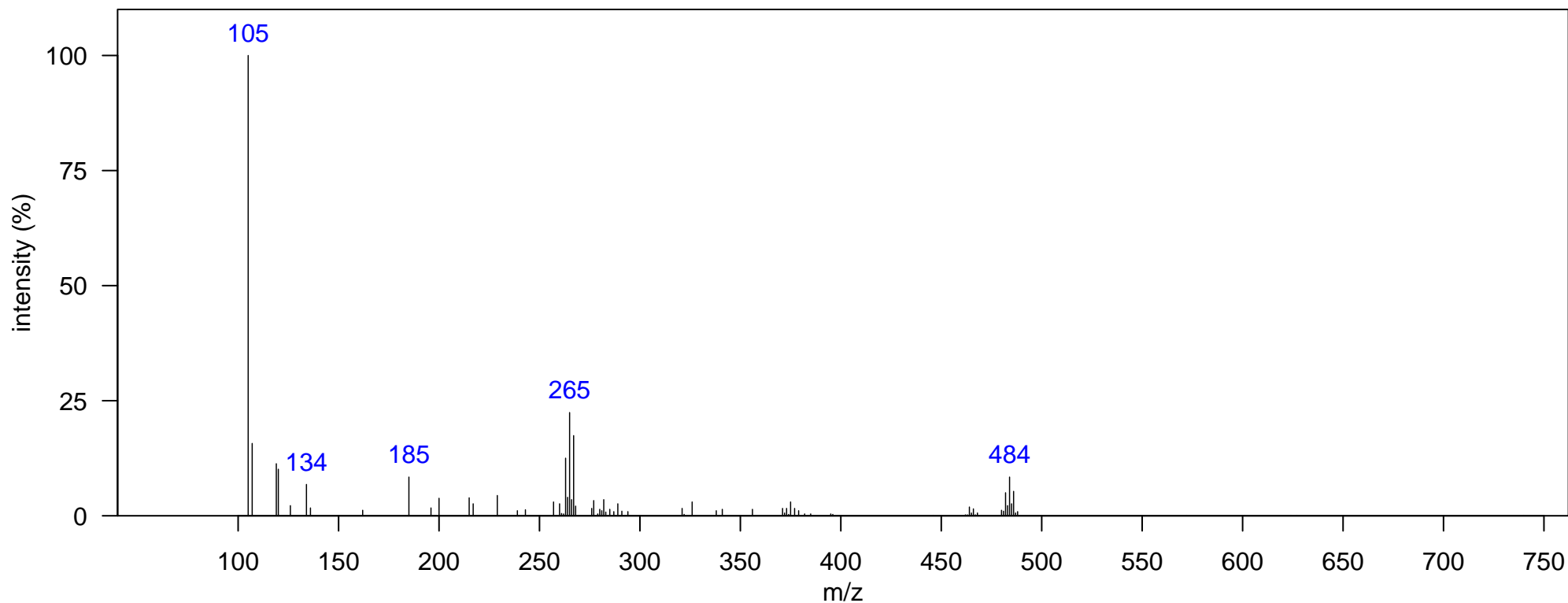
Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

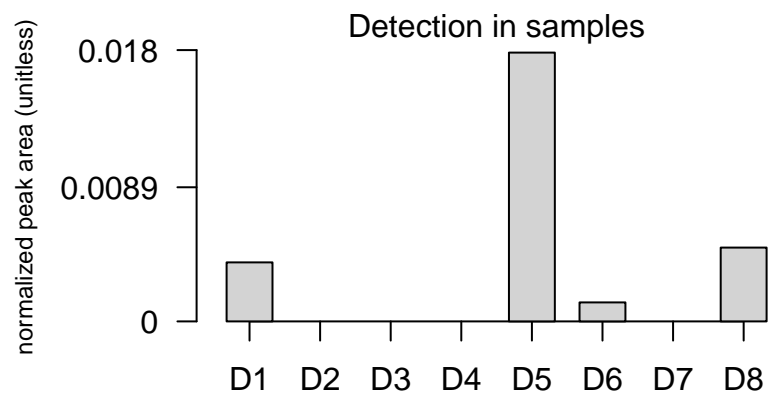
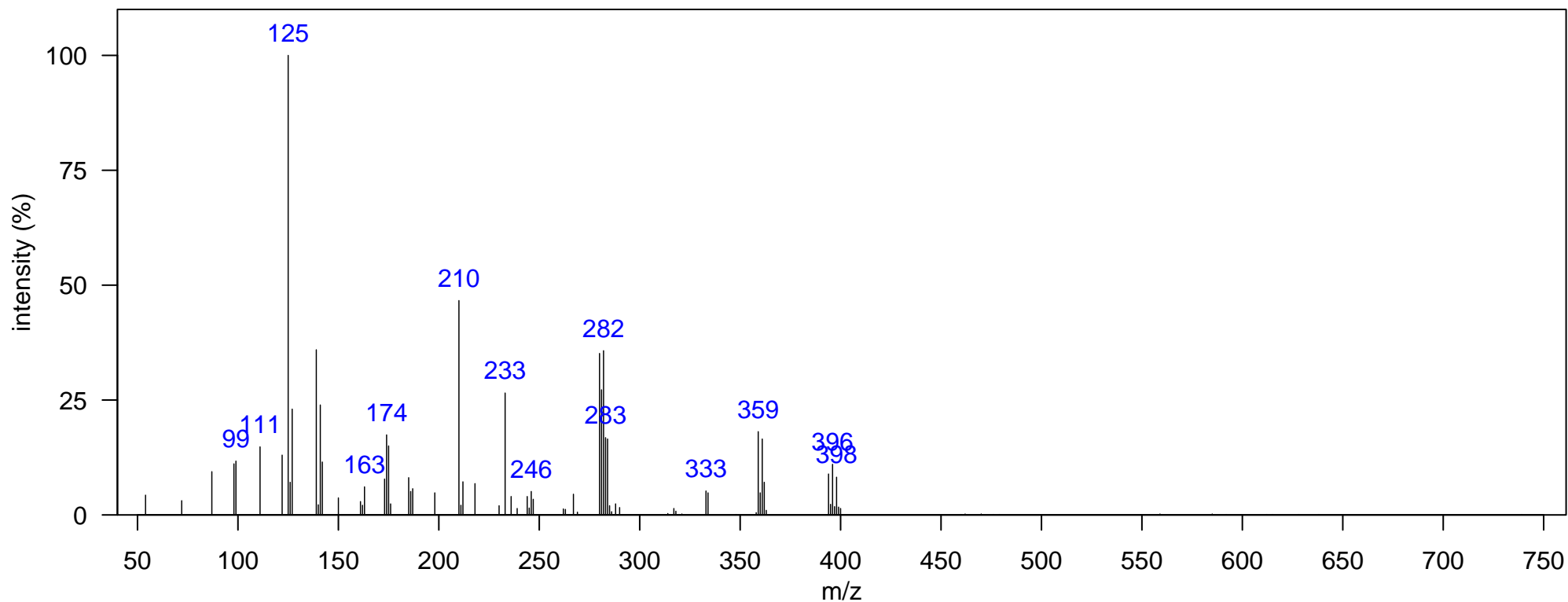
Quantitative Ion m/z: 361

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-45

Class: Unknown

Sample: SoCal dolphin blubber D6, DSJ2155 1D RT, 2D RT (s): 1649.4, 2.132

Ecotype: offshore

Quantitative Ion m/z: 424

Instrument: GCxGC-TOF, EI, 70 eV

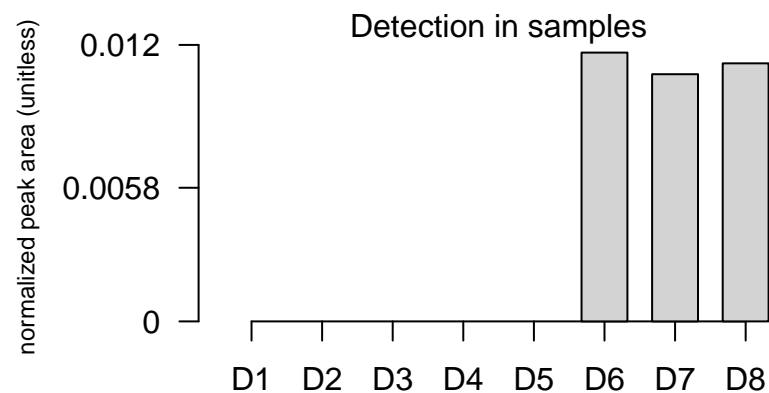
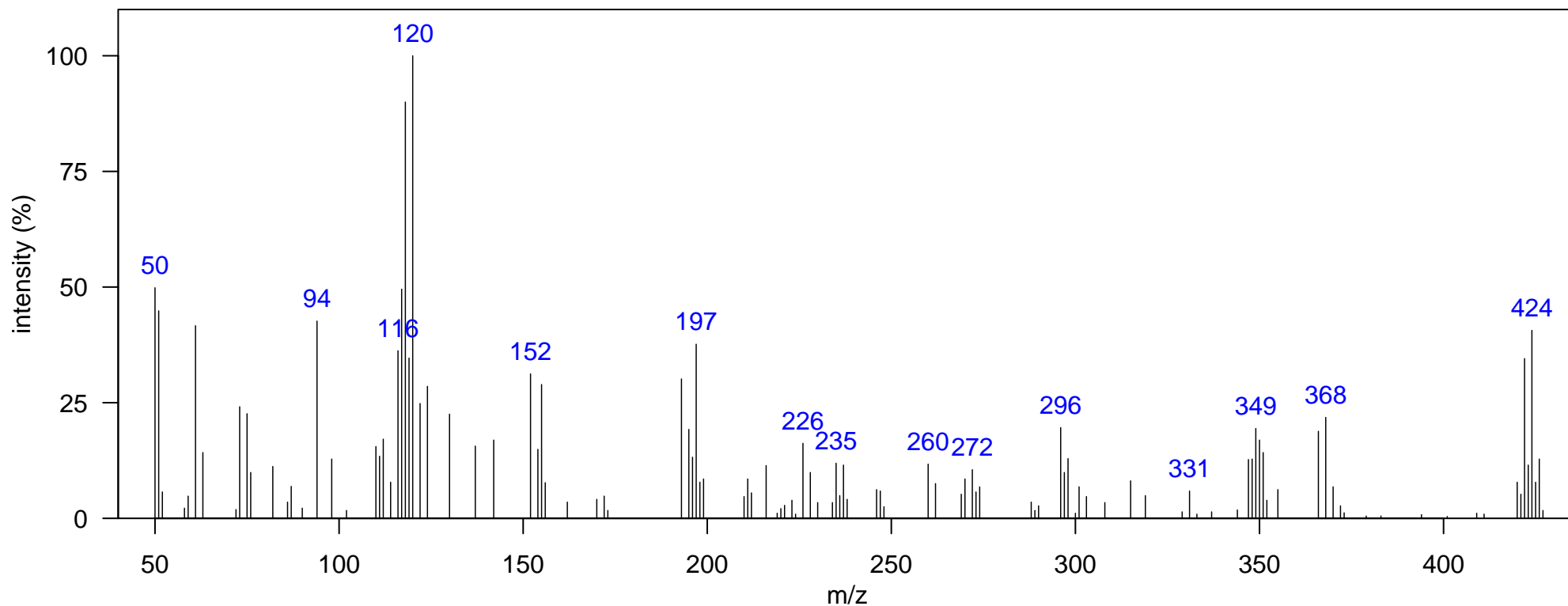
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>7</sub>Cl<sub>7</sub>

Source: unknown

Comment:

Identification:



m/z [Fragment]
420 M+

Class: Unknown

Elemental Formula:

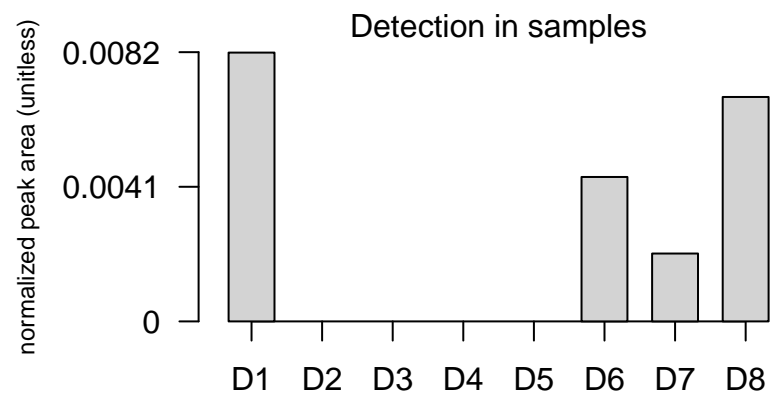
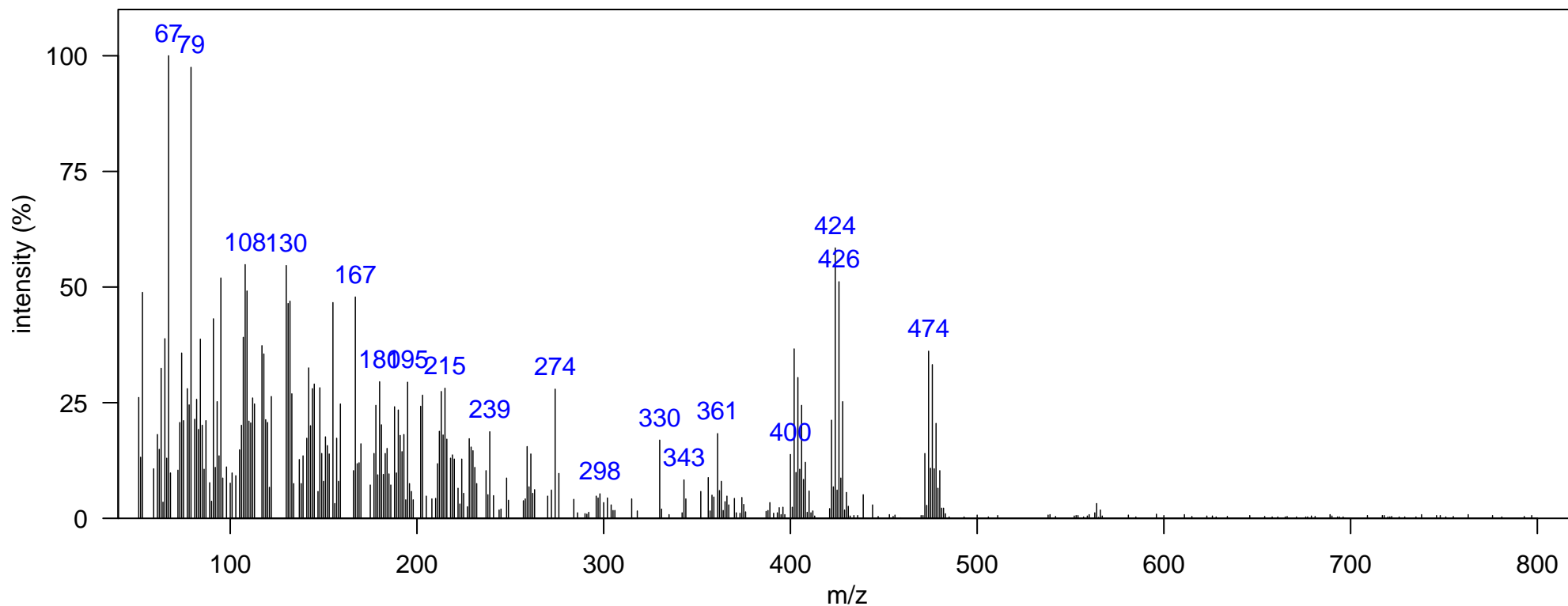
Quantitative Ion m/z: 474

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-47

Class: Unknown

Sample: SoCal dolphin blubber D1, KZP0086 1D RT, 2D RT (s): 1708.87, 2.026

Elemental Formula: C<sub>11</sub>H<sub>5</sub>Cl<sub>7</sub>N<sub>4</sub>

Ecotype: coastal

Quantitative Ion m/z: 440

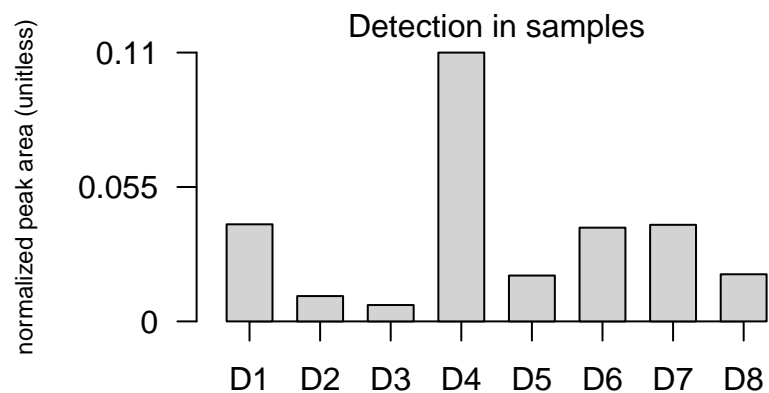
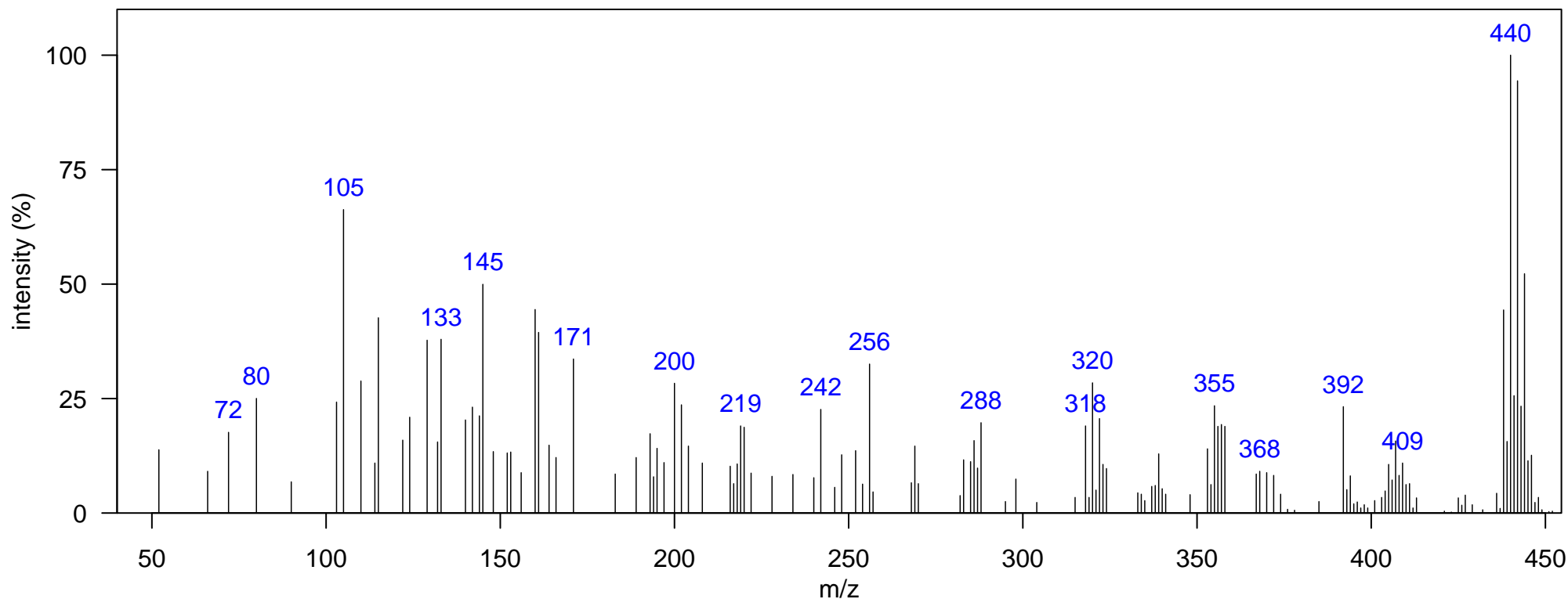
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification:

Comment: Might be 2-[p-chloroaniline]-4,6-bis(trichloromethyl)-triazine based on some spectral similarity



m/z [Fragment]
438 M+

Name: unknown-48

Class: Unknown

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1719.36, 1.868

Ecotype: offshore

Quantitative Ion m/z: 470

Instrument: GCxGC-TOF, EI, 70 eV

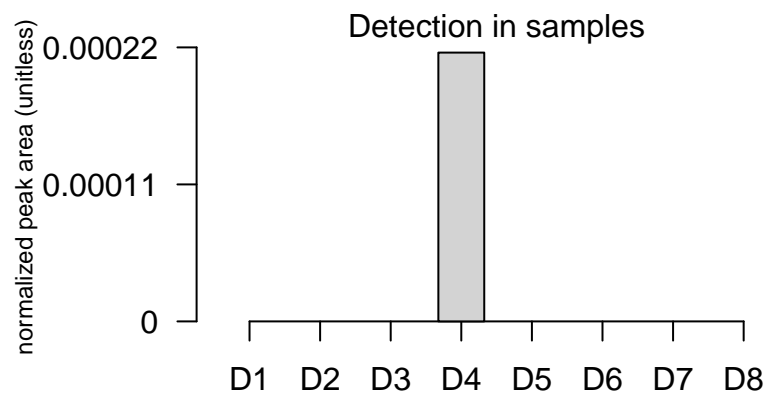
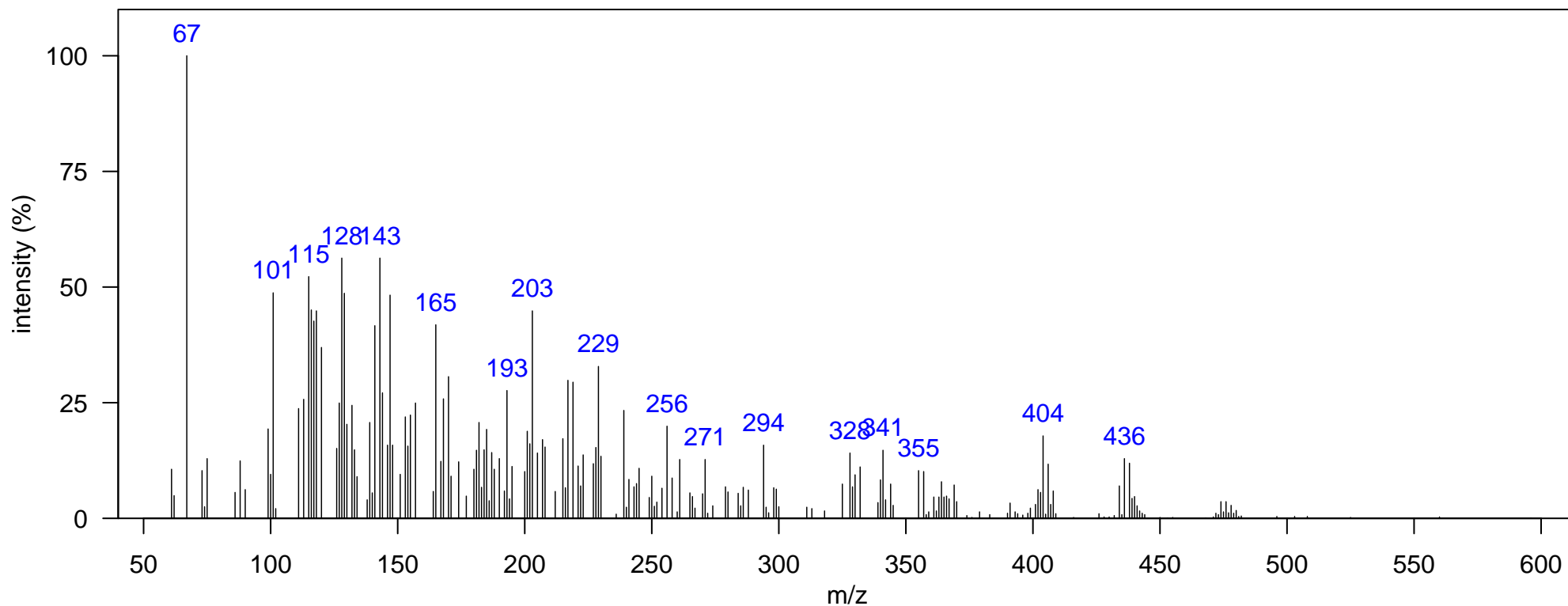
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]



Name: unknown-49

Class: Unknown

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 1736.85, 1.808

Ecotype: offshore

Quantitative Ion m/z: 270

Instrument: GCxGC-TOF, EI, 70 eV

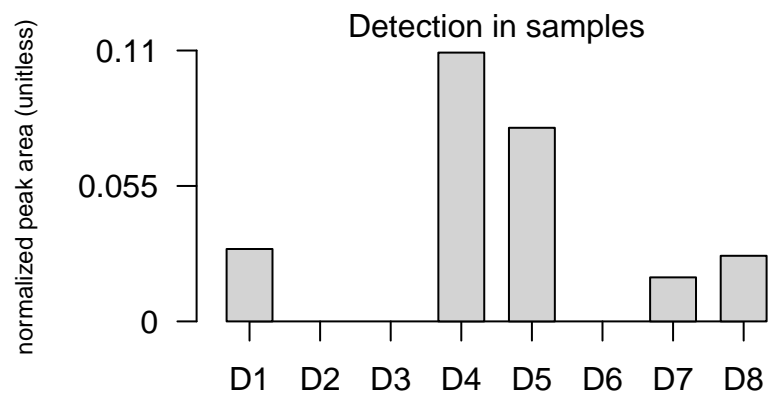
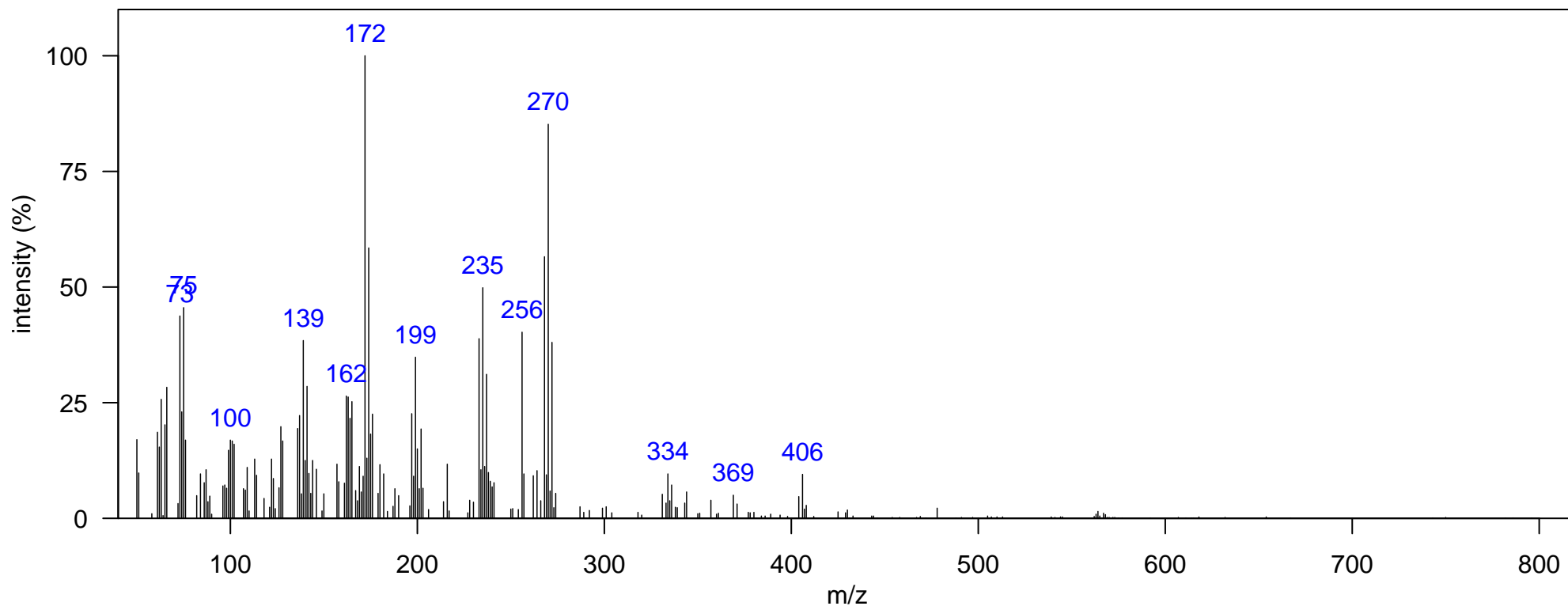
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

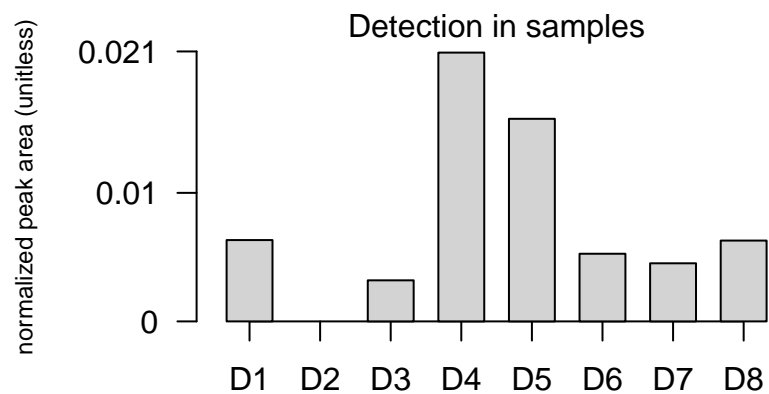
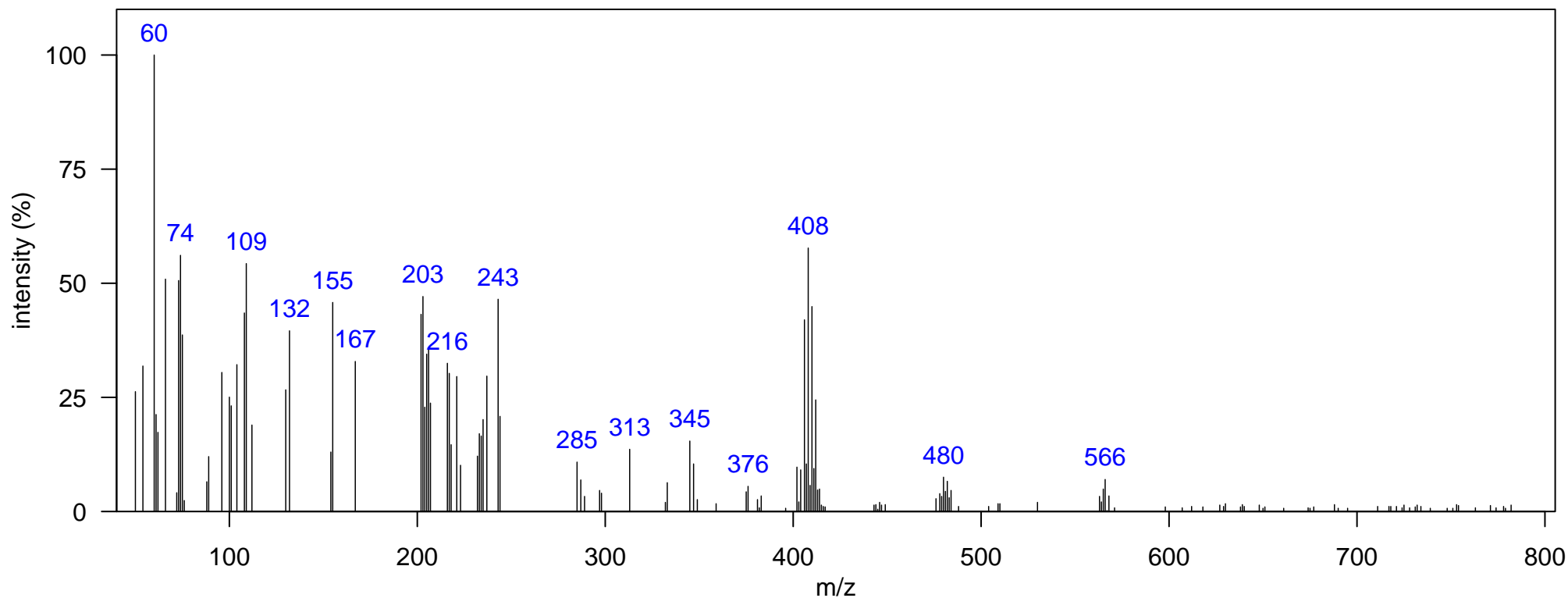
Quantitative Ion m/z: 408

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

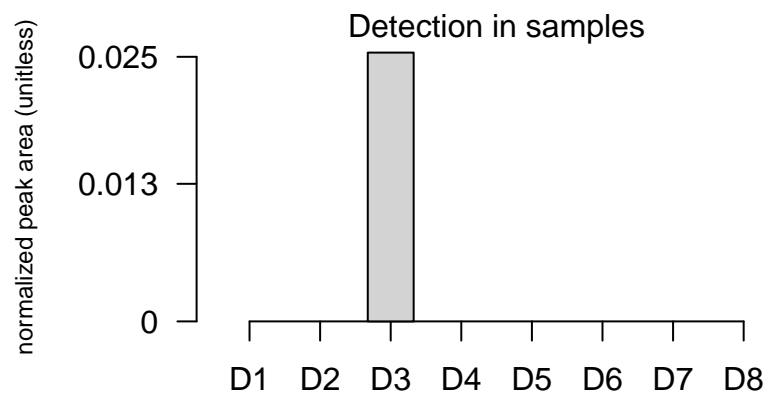
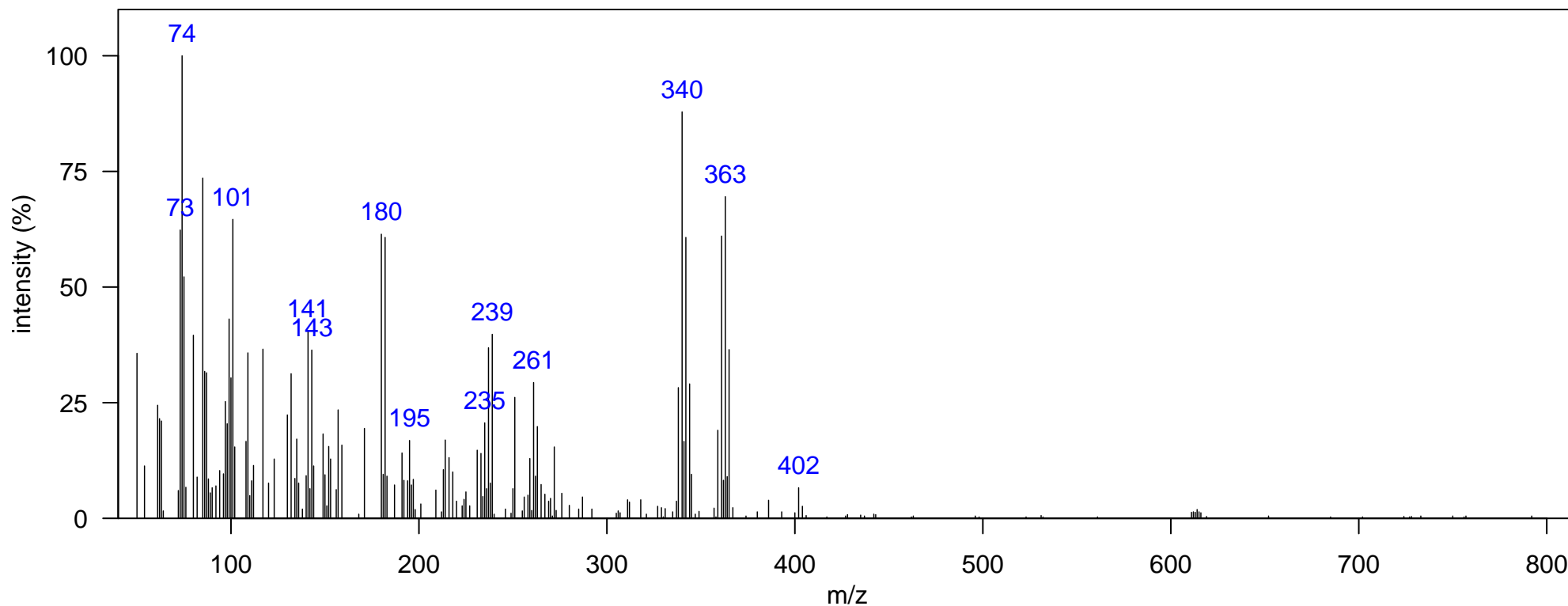
Quantitative Ion m/z: 340

Source: unknown

Atlantic Lib:

Identification:

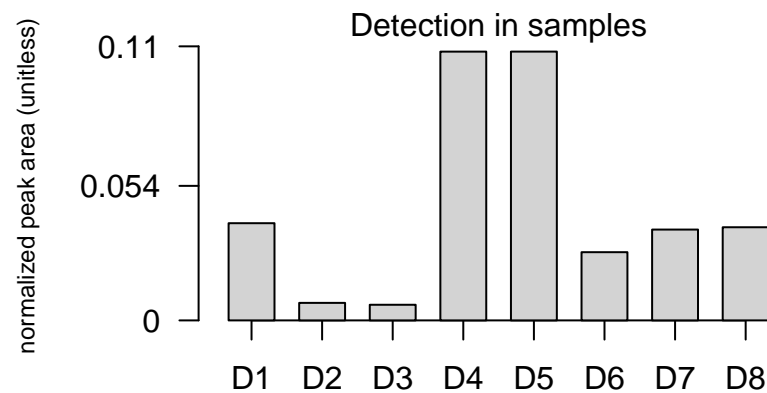
Comment:



m/z [Fragment]

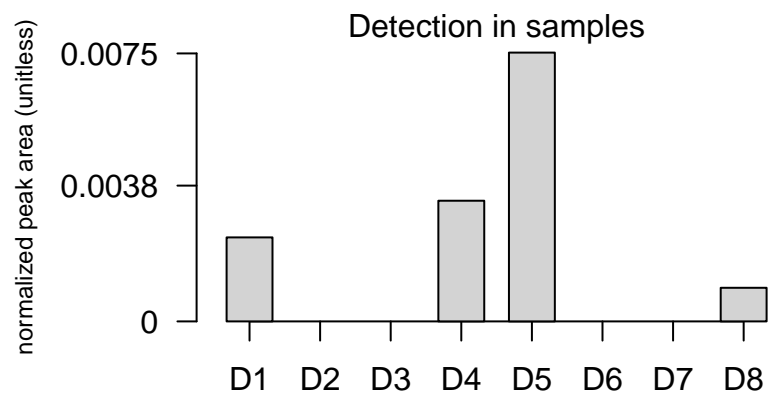
Class: Unknown

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:

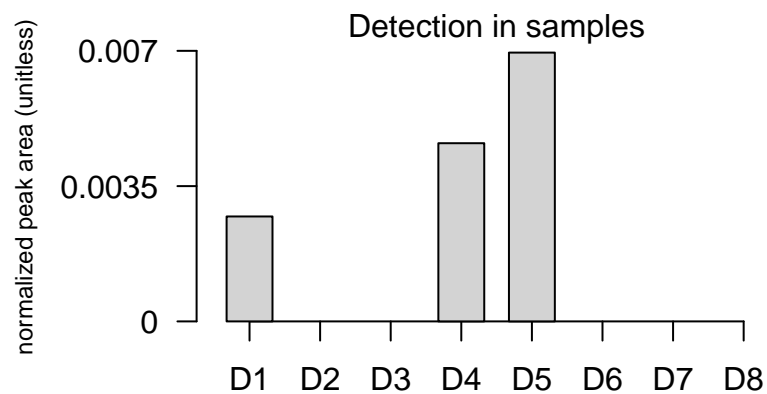
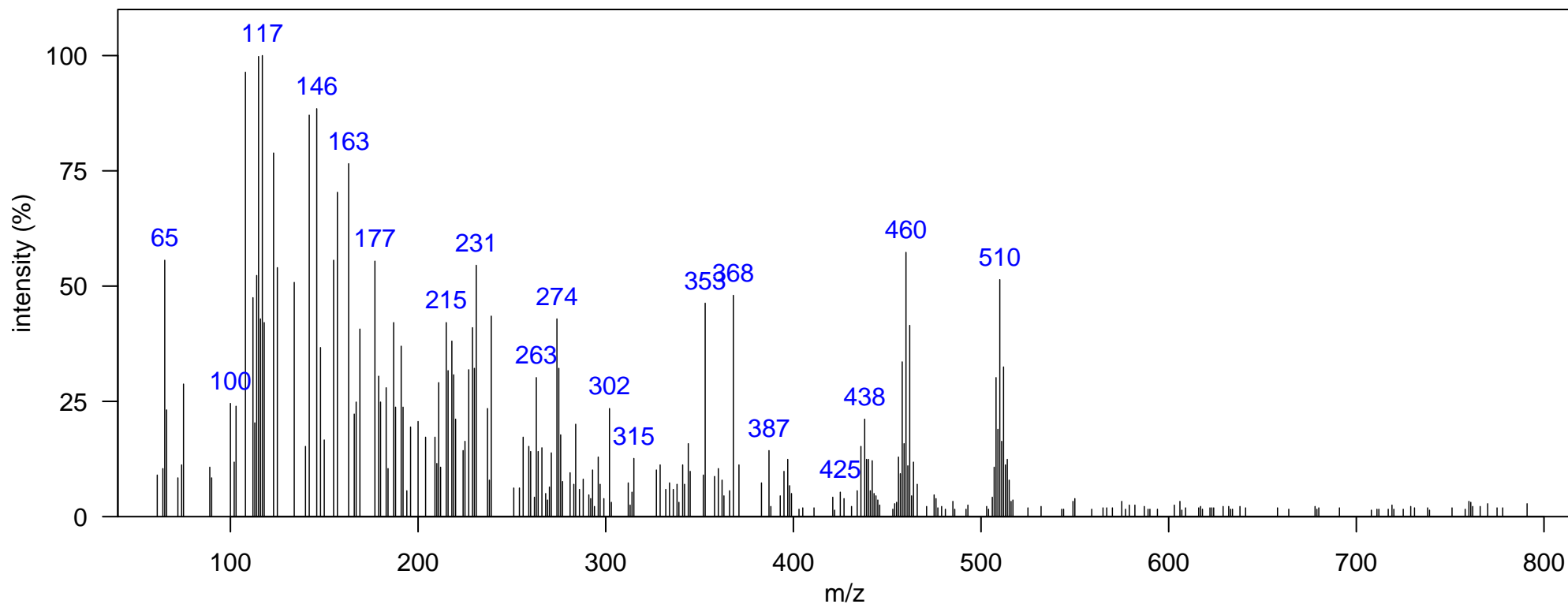
Quantitative Ion m/z: 510

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Class: Unknown

Elemental Formula:

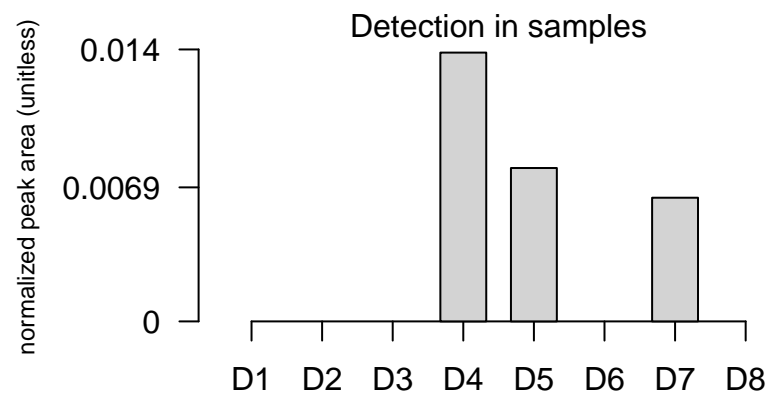
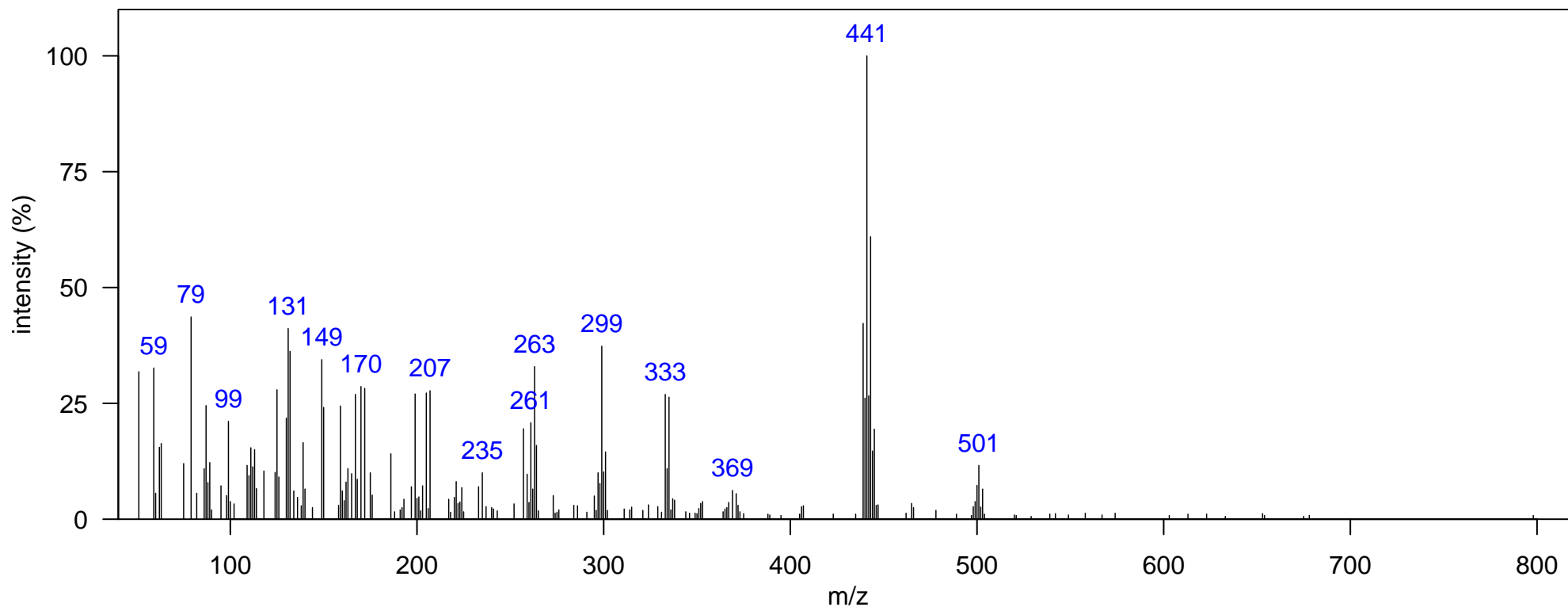
Quantitative Ion m/z: 441

Source: unknown

Atlantic Lib:

Identification:

Comment:



m/z [Fragment]

Name: unknown-56

Class: Unknown

Sample: SoCal dolphin blubber D4, JEH0504 1D RT, 2D RT (s): 2485.42, 0.838

Ecotype: offshore

Quantitative Ion m/z: 329

Instrument: GCxGC-TOF, EI, 70 eV

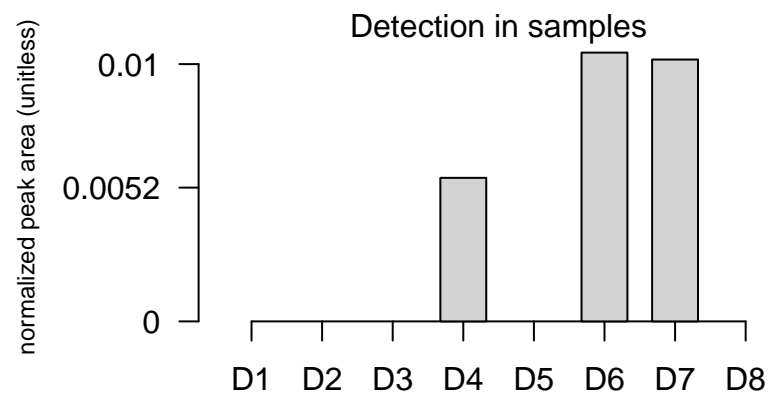
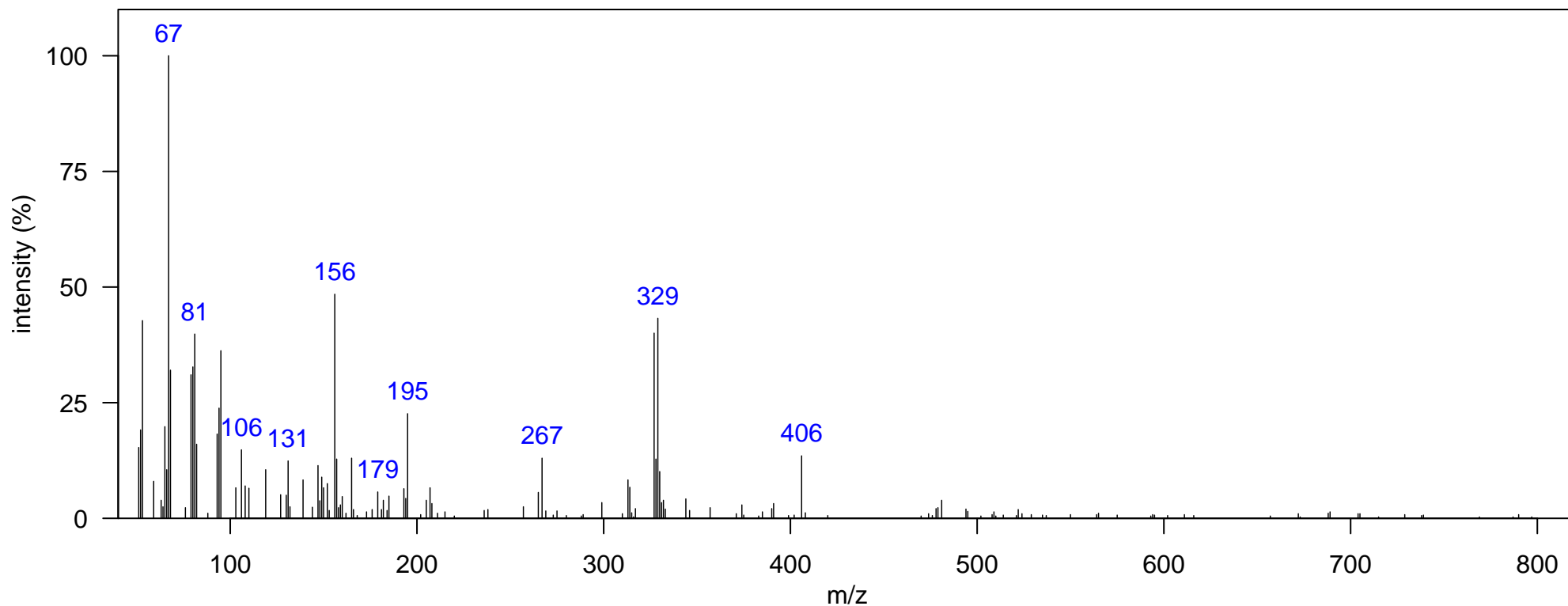
Atlantic Lib:

Elemental Formula:

Source: unknown

Comment:

Identification:



m/z [Fragment]