

## Pacific Bottlenose Dolphin Blubber

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

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

Prepared: 2015-01-09 09:28:59  
SpecLibDolphin2014 version 0.1-2  
OrgMassSpecR version 0.4-4  
R version 3.1.0 (2014-04-10)

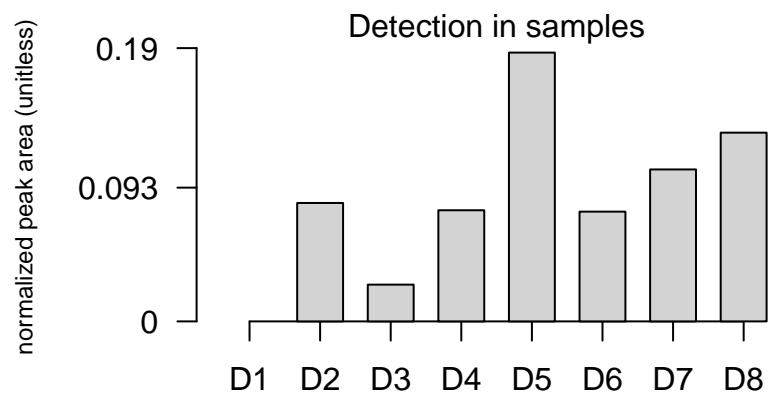
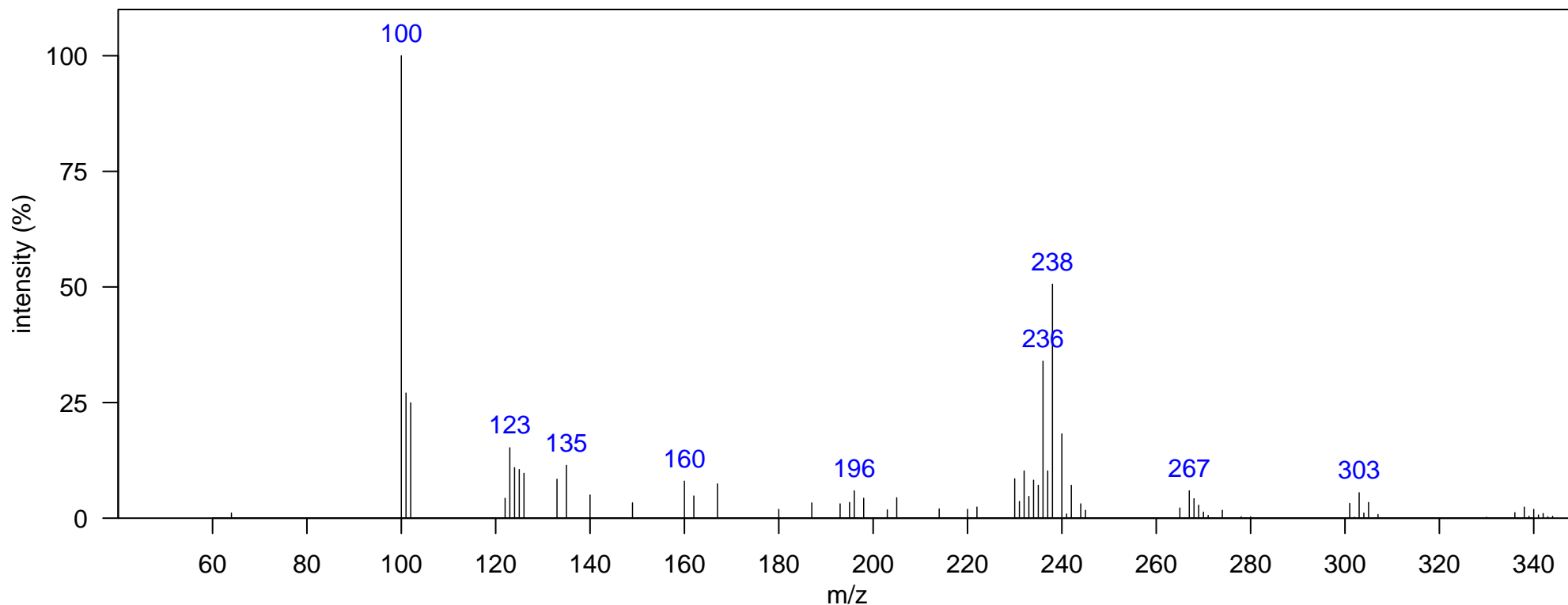
Name: chlordane related 1

Class: Chlordane-related

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1201.66, 1.181  
Quantitative Ion m/z: 238  
Atlantic Lib: chlordane related 1

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>6</sub>  
Source: anthropogenic  
Identification: Manual



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

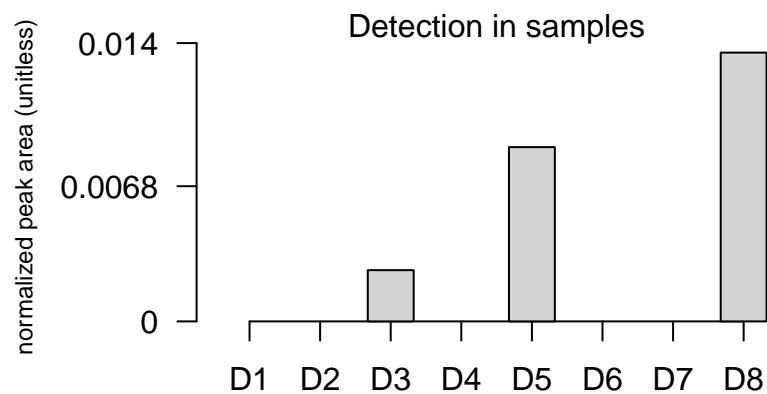
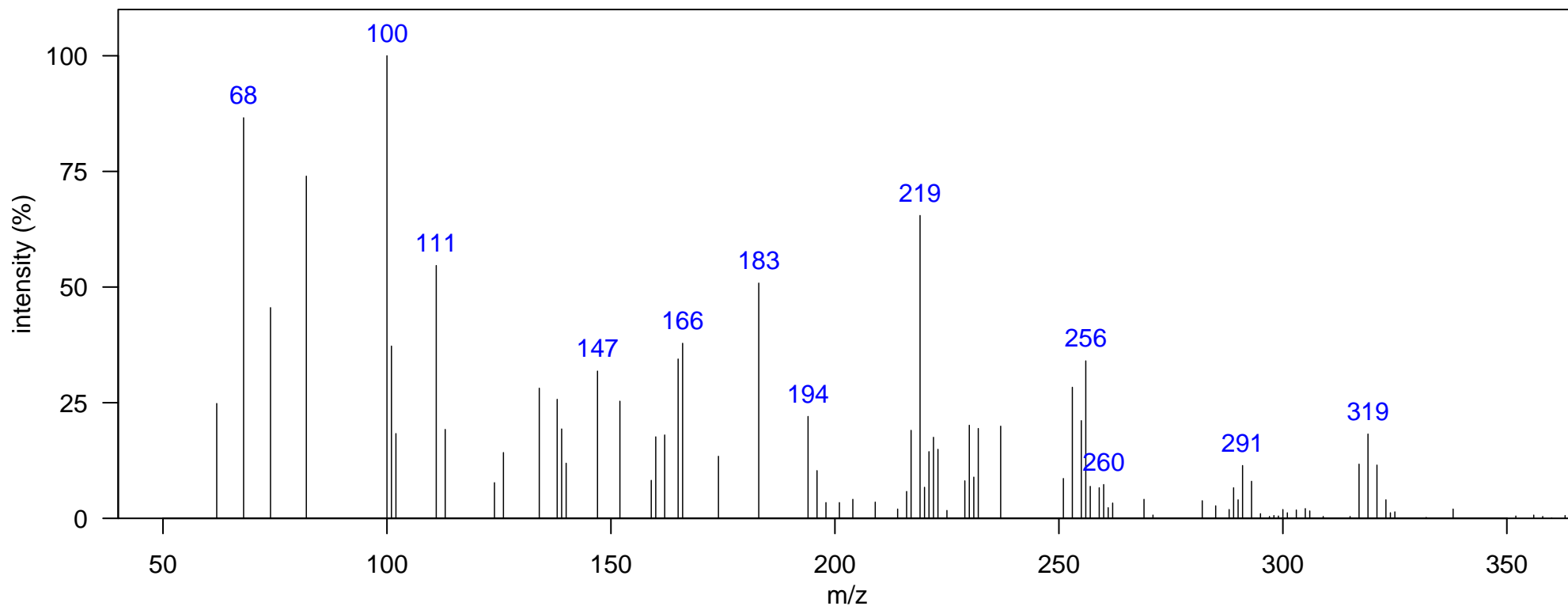
Name: hydroxychlordene

Class: Chlordane-related

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1201.66, 1.201  
Quantitative Ion m/z: 319  
Atlantic Lib: 1-hydroxychlordene

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



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

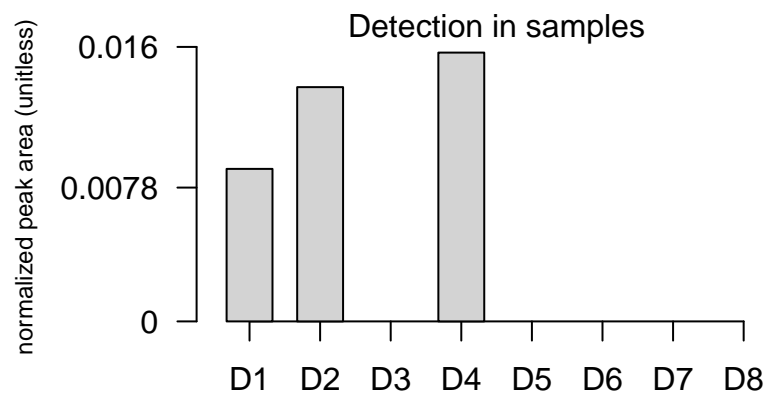
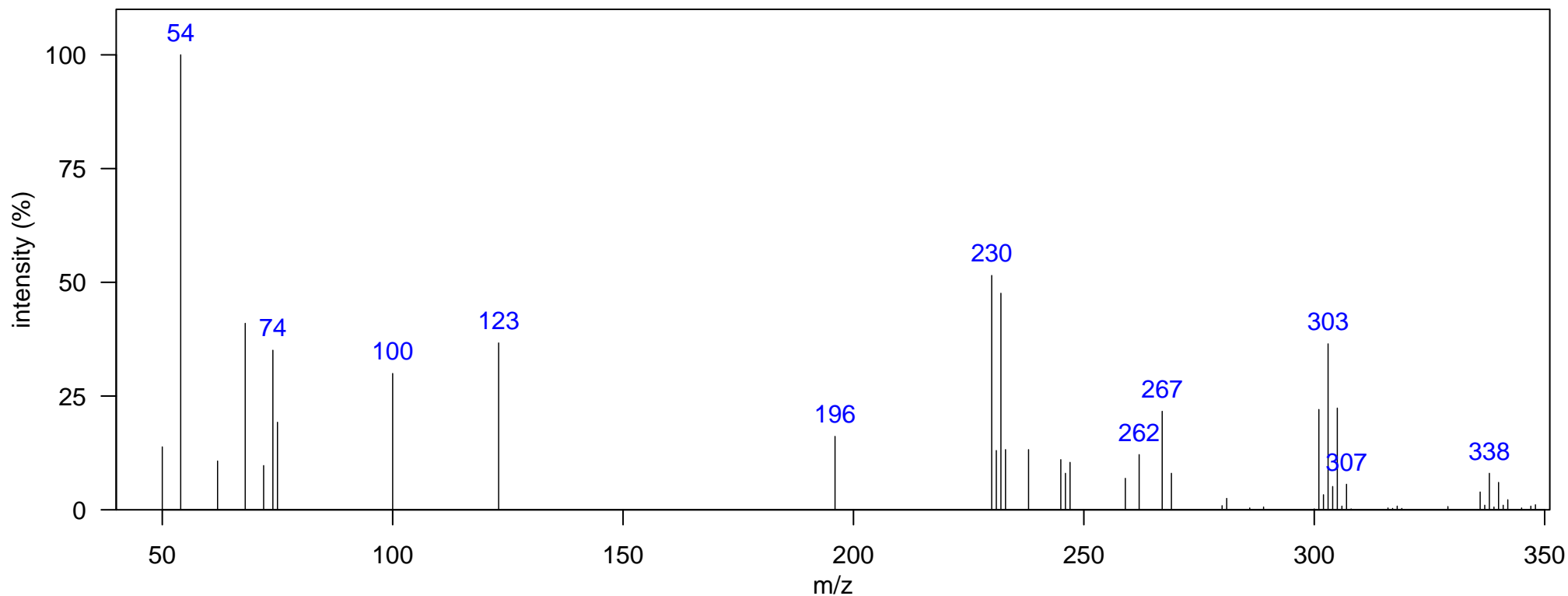
Name: chlordane related 2

Class: Chlordane-related

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

1D RT, 2D RT (s): 1226.14, 1.208  
Quantitative Ion m/z: 303  
Atlantic Lib: 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+

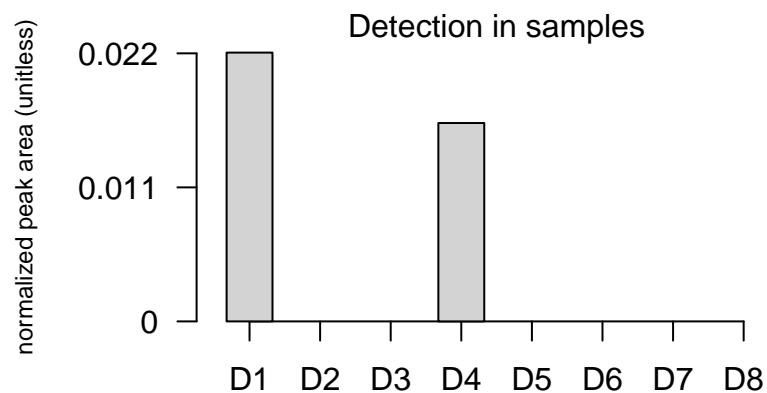
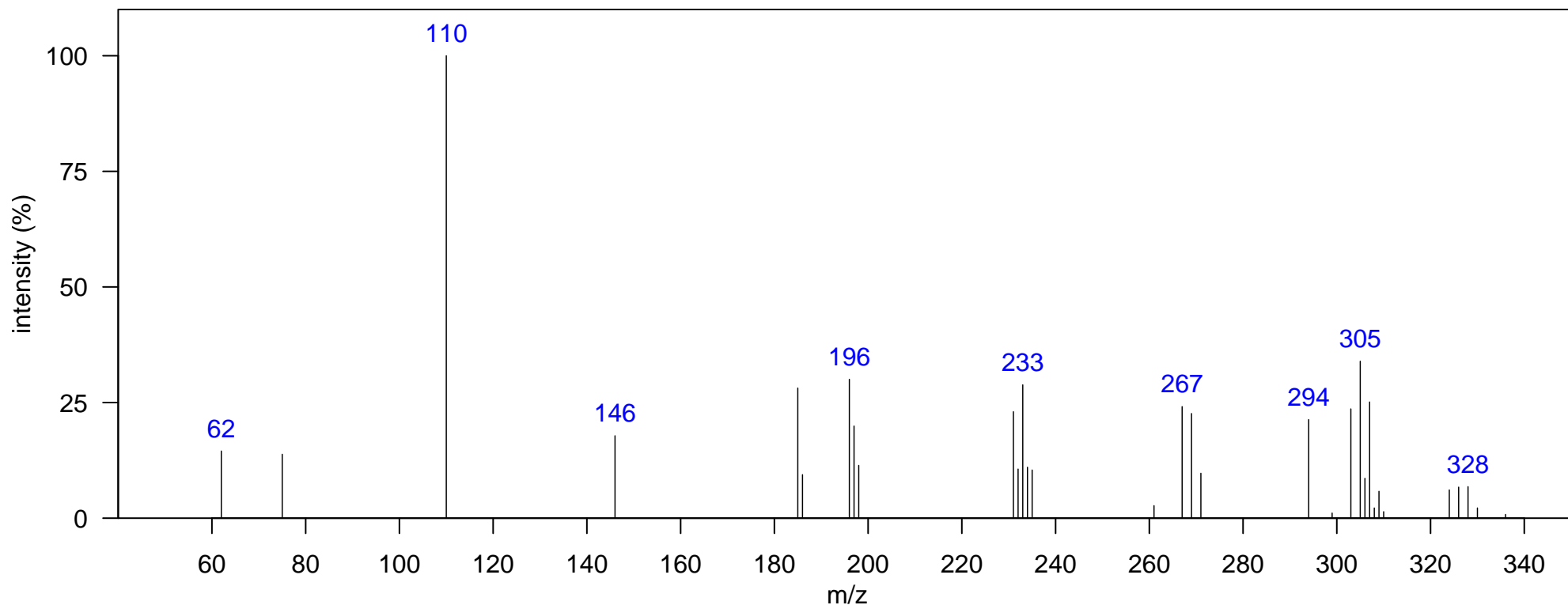
Name: chlordane related 3

Class: Chlordane-related

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

1D RT, 2D RT (s): 1261.12, 1.274  
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-H <sub>2</sub> Cl <sub>2</sub> ]
231 [Frag-H <sub>2</sub> Cl <sub>2</sub> ] <sup>+</sup>
267 [Frag-HCl] <sup>+</sup>
303 [Frag] <sup>+</sup> Contains 5Cl

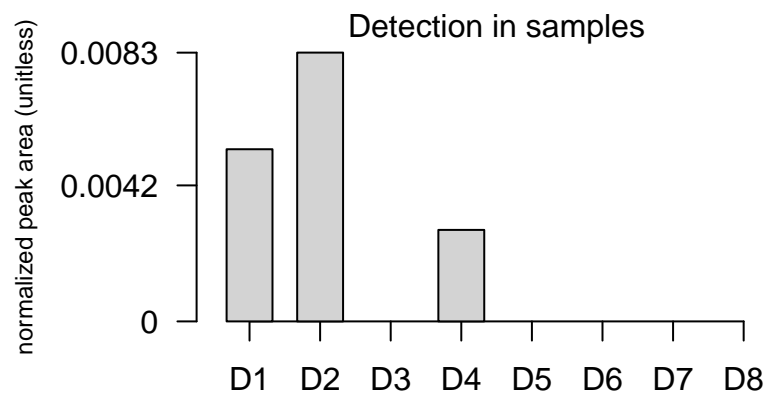
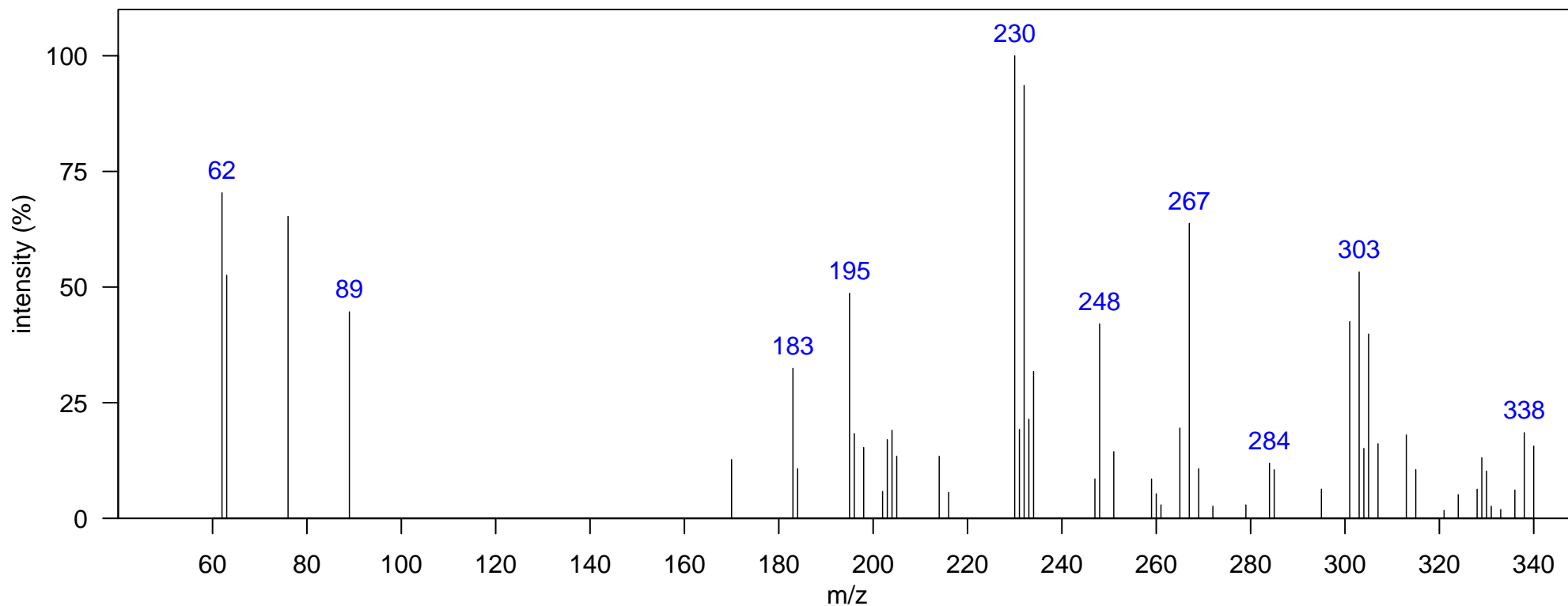
Name: chlordene 1

Class: Chlordane-related

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

1D RT, 2D RT (s): 1439.52, 0.957  
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+

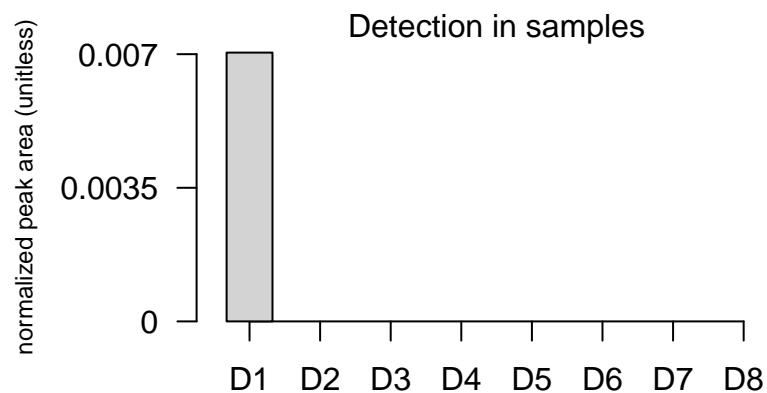
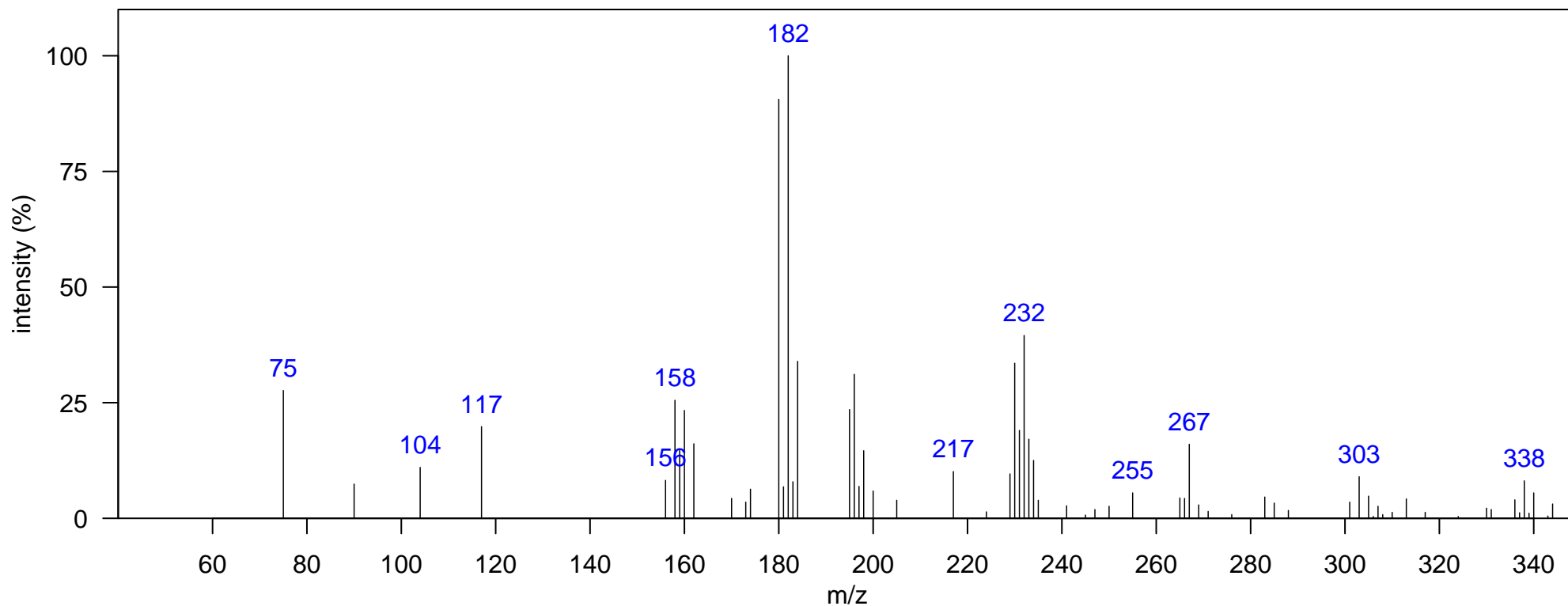
Name: chlordene 2

Class: Chlordane-related

Sample: SoCal dolphin blubber D1,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: chlordene (isomer)

1D RT, 2D RT (s): 1446.52, 0.95  
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-HCl <sub>3</sub> ] <sup>+</sup>
301 [M-Cl] <sup>+</sup>
336 M <sup>+</sup>

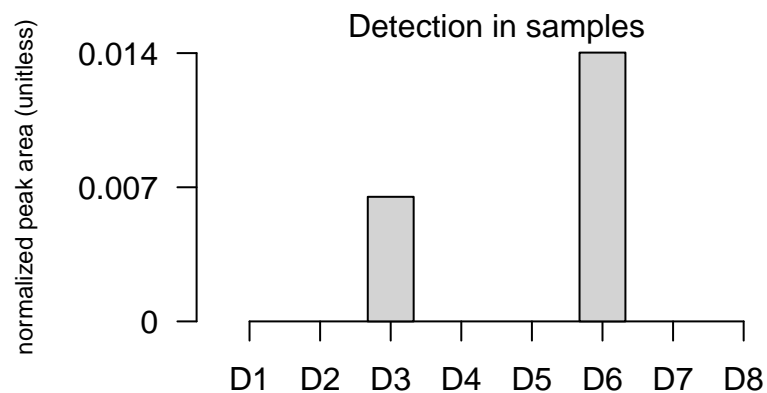
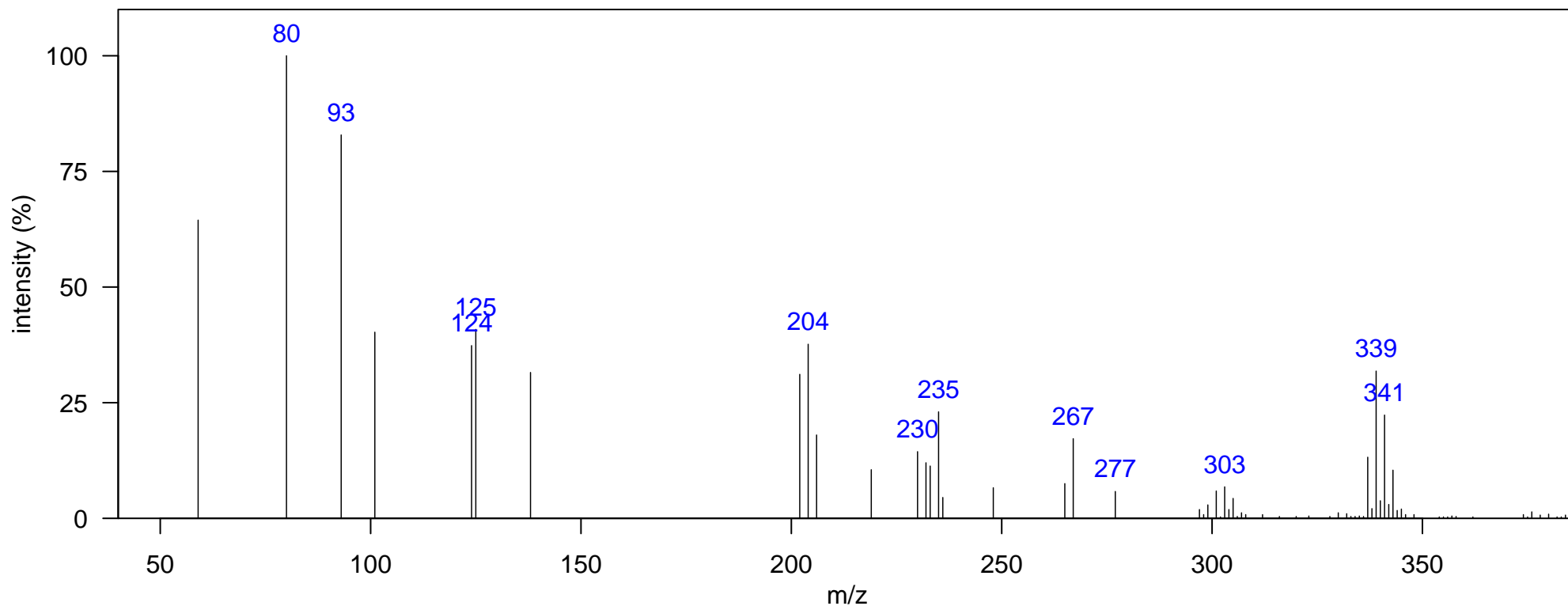
Name: chlordane related 4

Class: Chlordane-related

Sample: SoCal dolphin blubber D3,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1264.62, 1.195  
Quantitative Ion m/z: 339  
Atlantic Lib: chlordane related 4

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



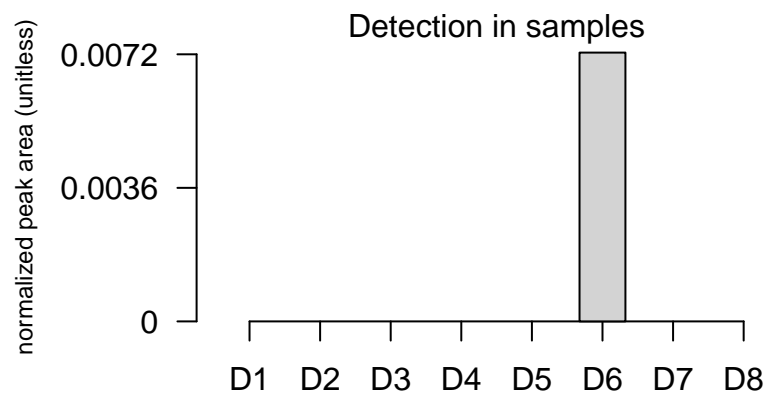
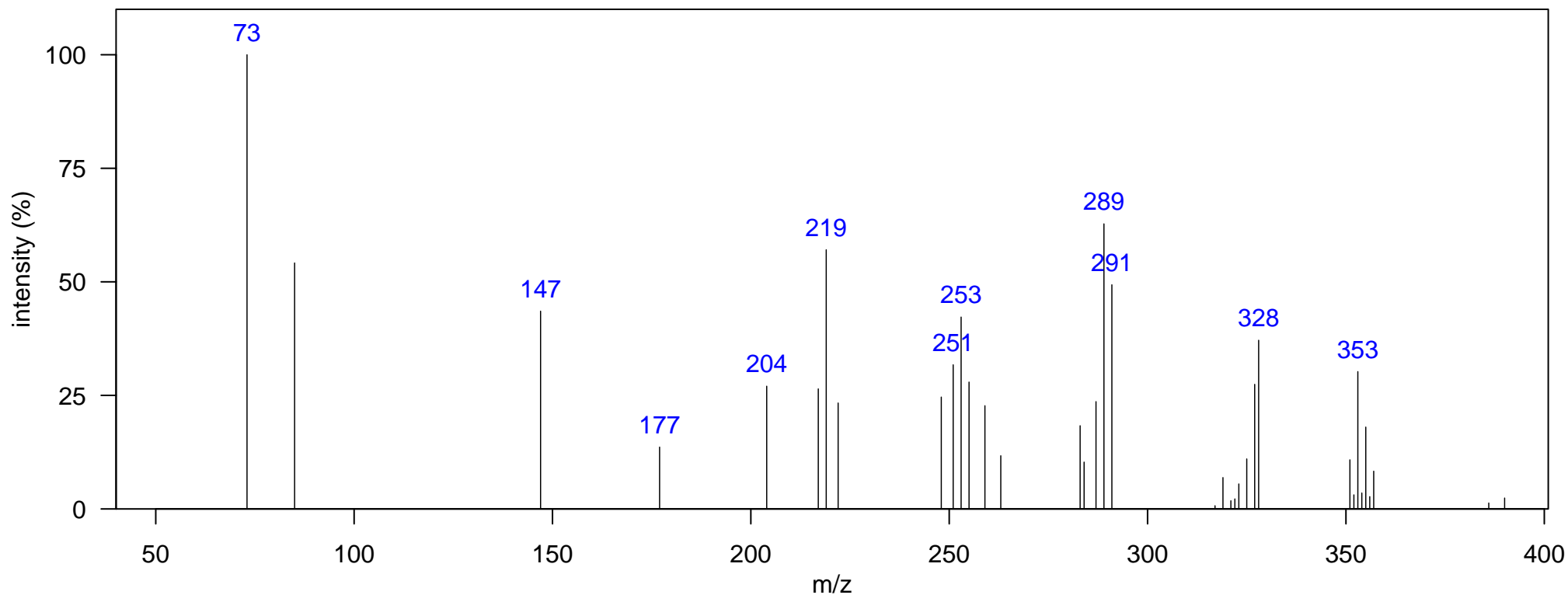
Name: chlordane related 5

Class: Chlordane-related

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: oxychlordane, but 7 chlorines

1D RT, 2D RT (s): 1320.59, 1.32  
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>

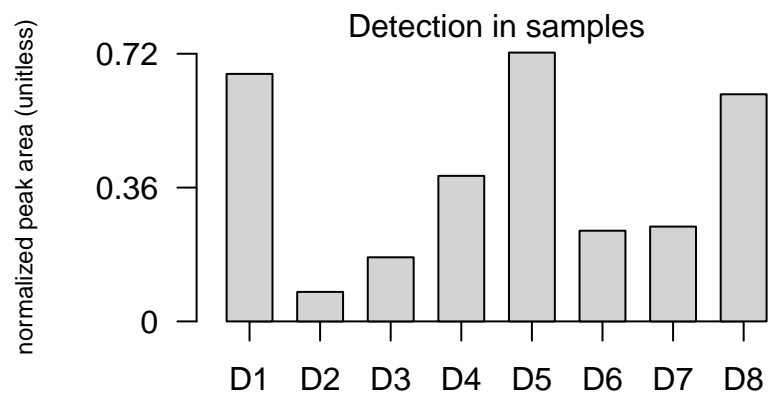
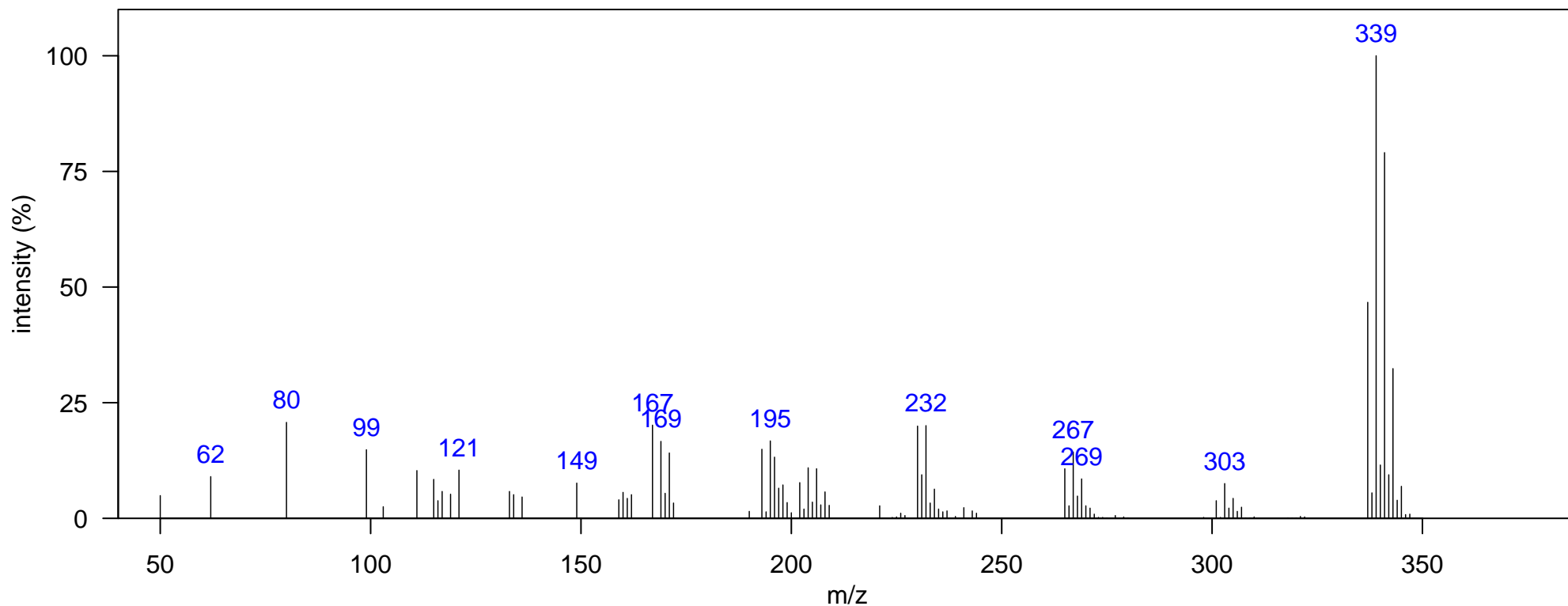
Name: chlordane related 6

Class: Chlordane-related

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

1D RT, 2D RT (s): 1327.58, 1.353  
Quantitative Ion m/z: 339  
Atlantic Lib: chlordane related 7

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

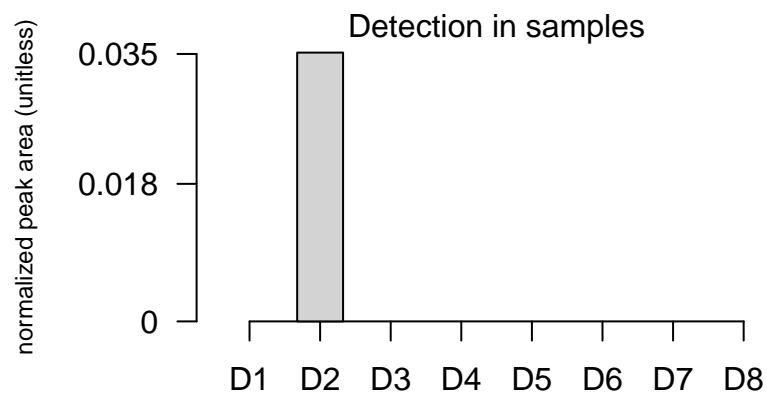
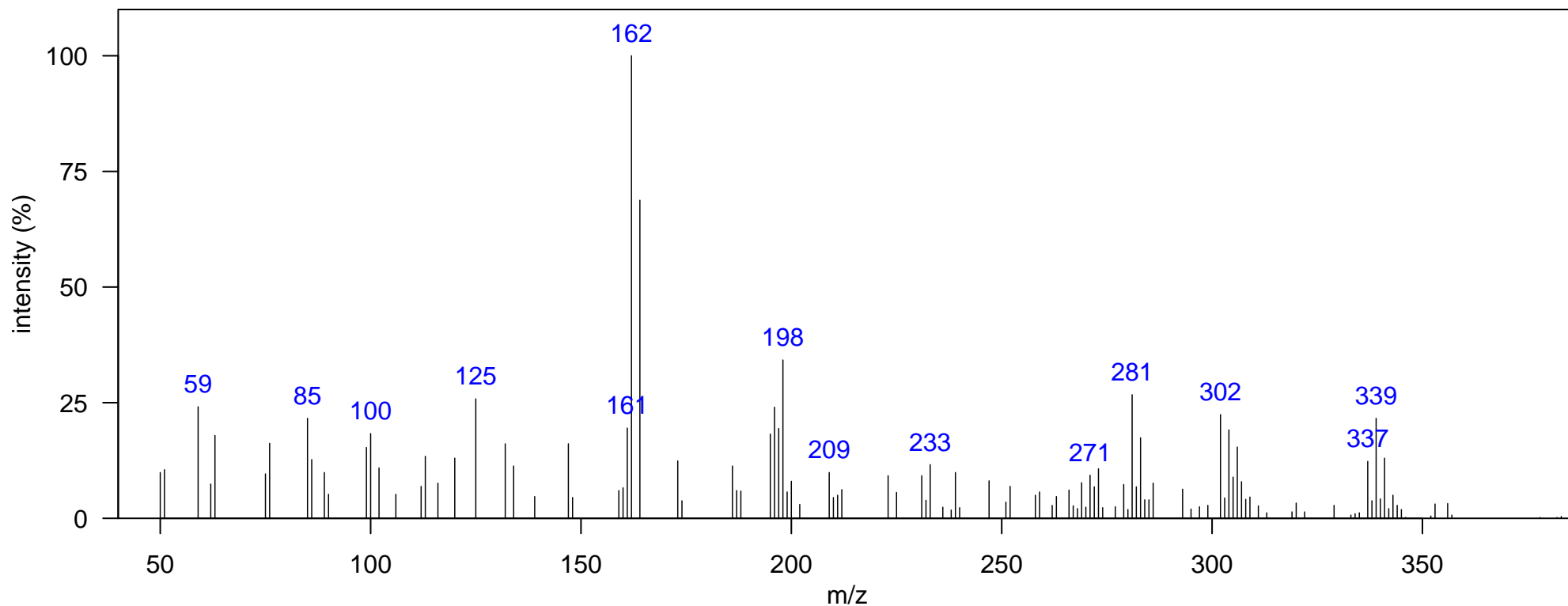
Name: chlordane related 7

Class: Chlordane-related

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1450.01, 1.432  
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>

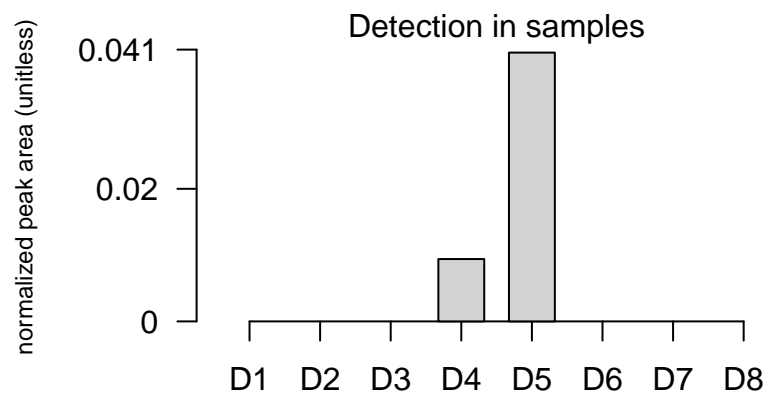
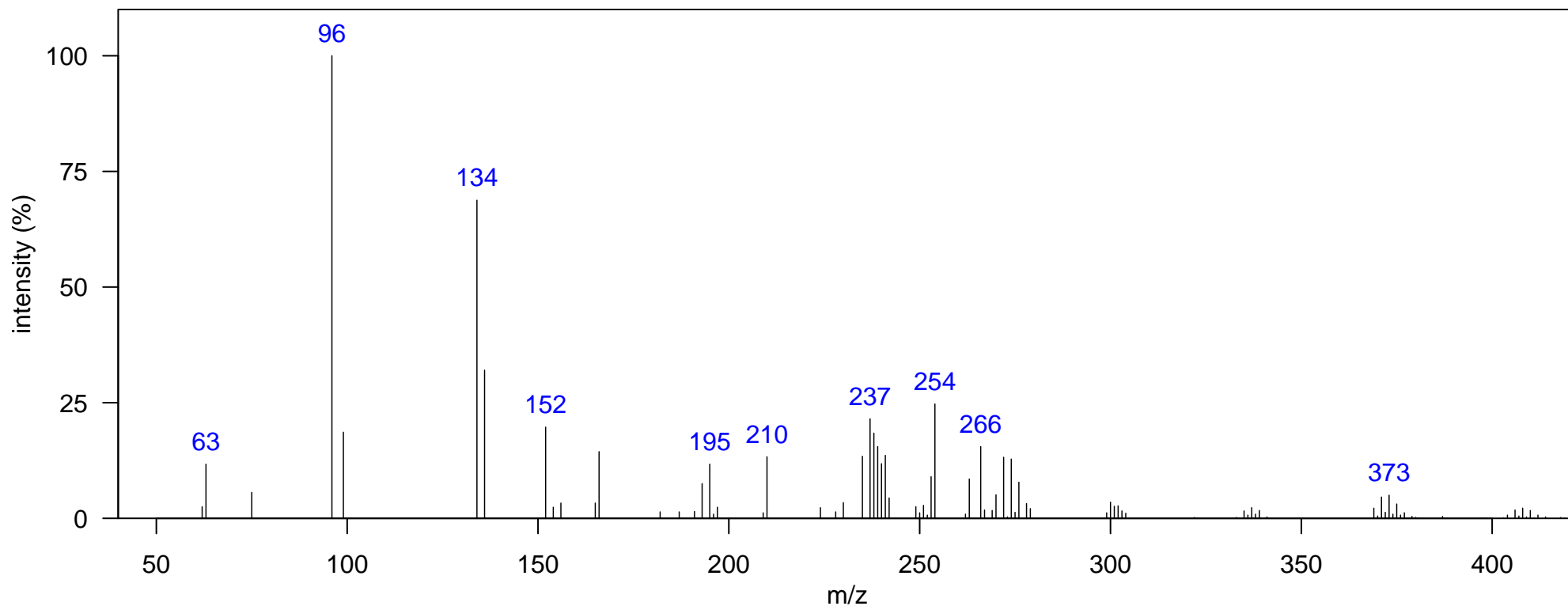
Name: chlordane related 8

Class: Chlordane-related

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1282.11, 1.181  
Quantitative Ion m/z: 373  
Atlantic Lib: chlordane related 5

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-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,

1D RT, 2D RT (s): 1296.1, 1.208

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

Ecotype: coastal

Quantitative Ion m/z: 238

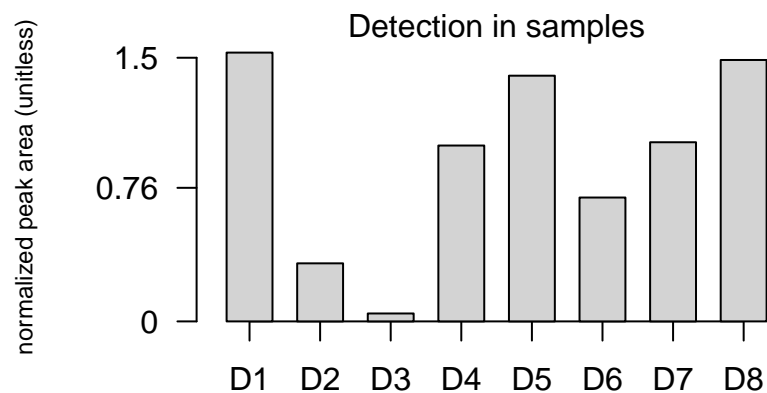
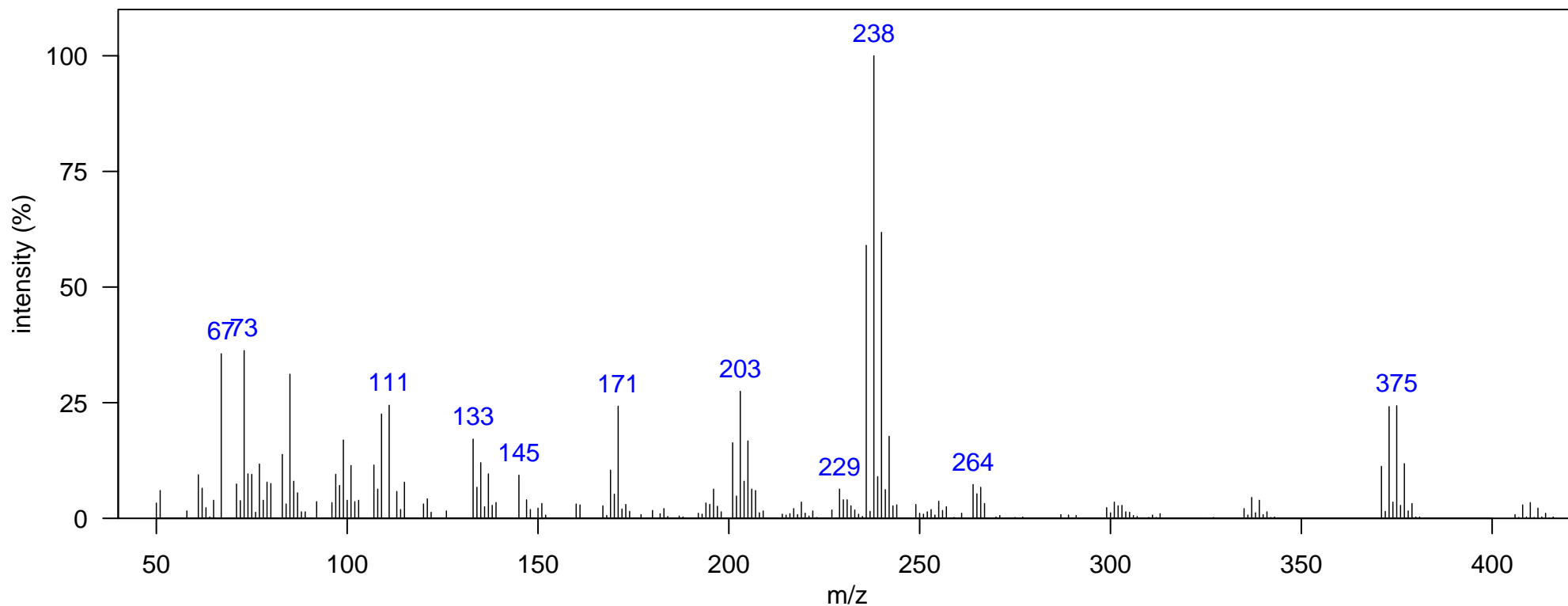
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: chlordane related 6

Identification: Manual-Congener Group

Comment: Likely to be U82, the most abundant octachloroisomer in humans (Environ. Sci. Technol., 1999, 33, 1353-8)



m/z [Fragment]
236 [C <sub>5</sub> HCl <sub>5</sub> ] <sup>+</sup>
264 [M-H <sub>2</sub> Cl <sub>3</sub> ] <sup>+</sup>
335 [M-HCl <sub>2</sub> ] <sup>+</sup>
371 [M-Cl] <sup>+</sup>
406 M <sup>+</sup>

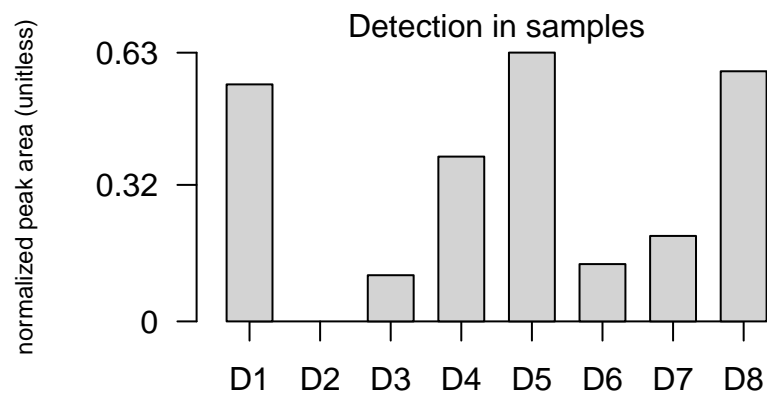
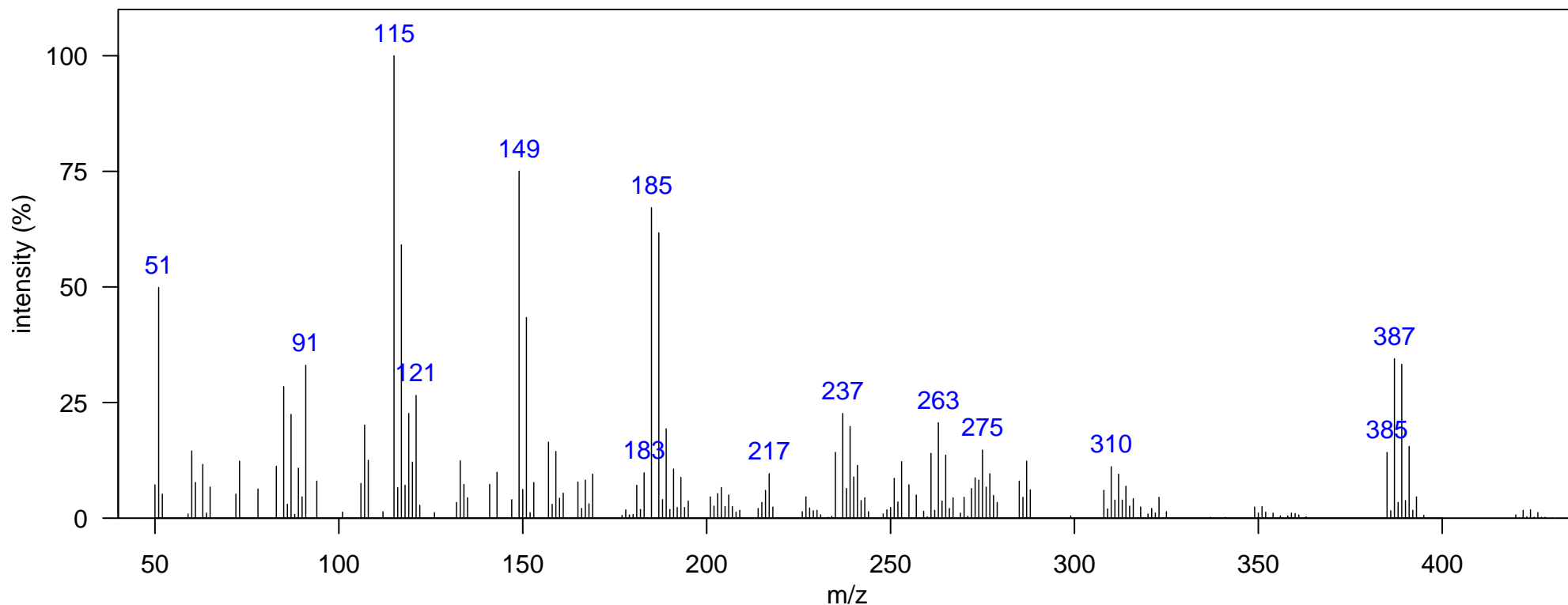
Name: oxychlordan

Class: Chlordane-related

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

1D RT, 2D RT (s): 1310.09, 1.241  
Quantitative Ion m/z: 389  
Atlantic Lib: oxychlordan

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

1D RT, 2D RT (s): 1324.09, 1.241

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

Ecotype: coastal

Quantitative Ion m/z: 238

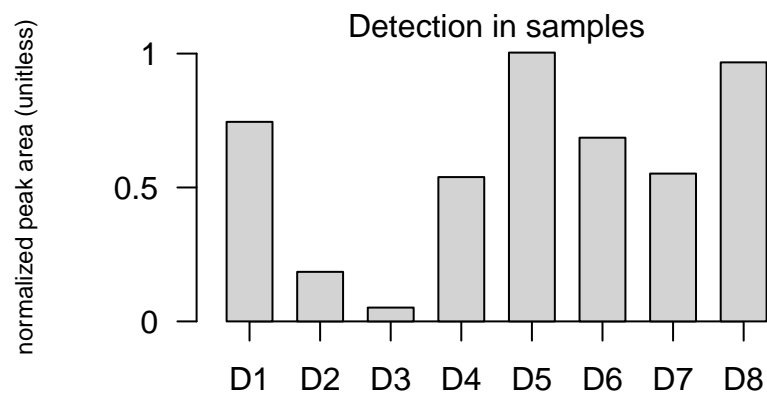
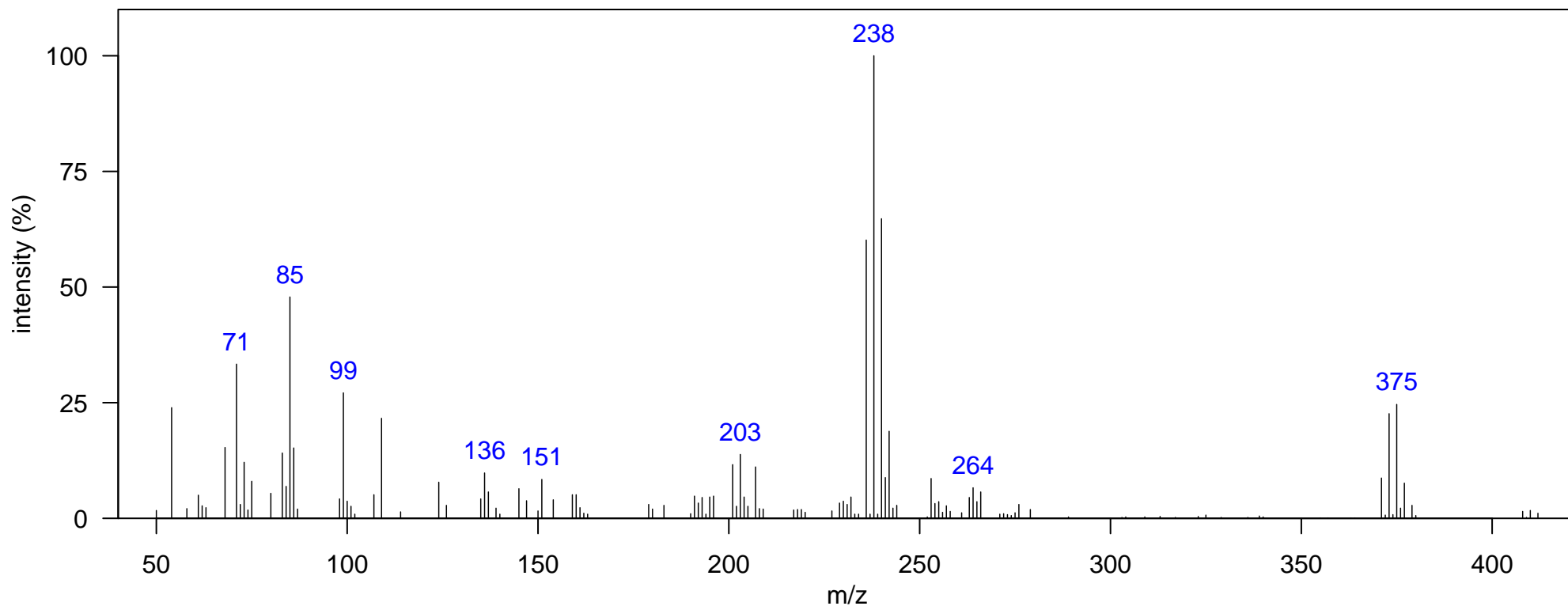
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: chlordane related 8

Identification: Manual-Congener Group

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



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

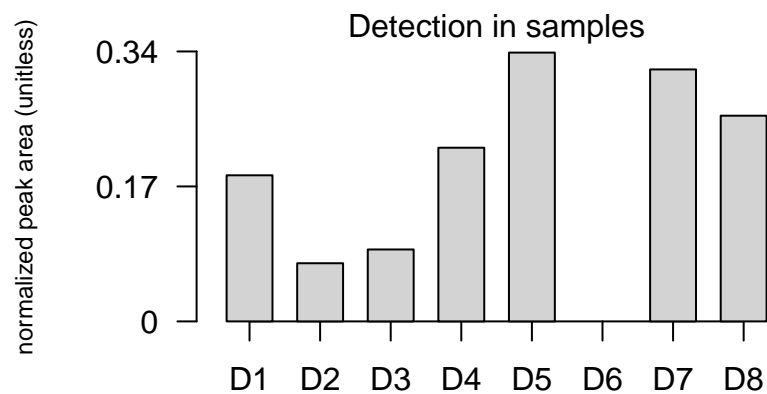
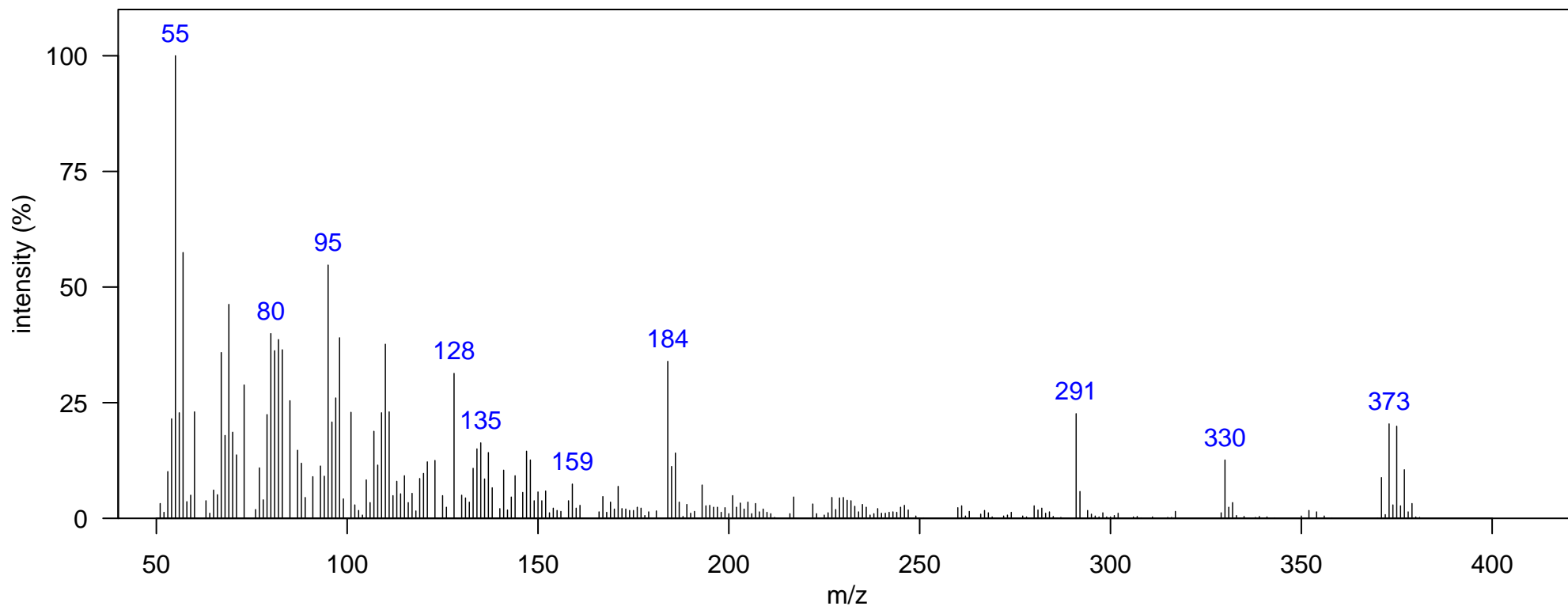
Name: gamma chlordanes

Class: Chlordane-related

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

1D RT, 2D RT (s): 1338.08, 1.34  
Quantitative Ion m/z: 375  
Atlantic Lib: gamma-chlordane

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



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



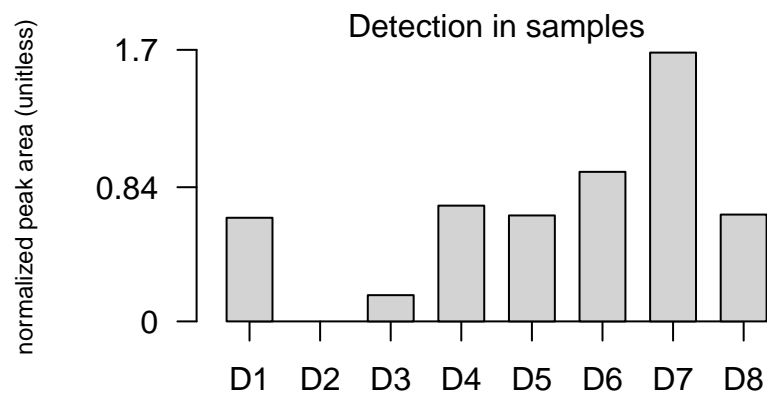
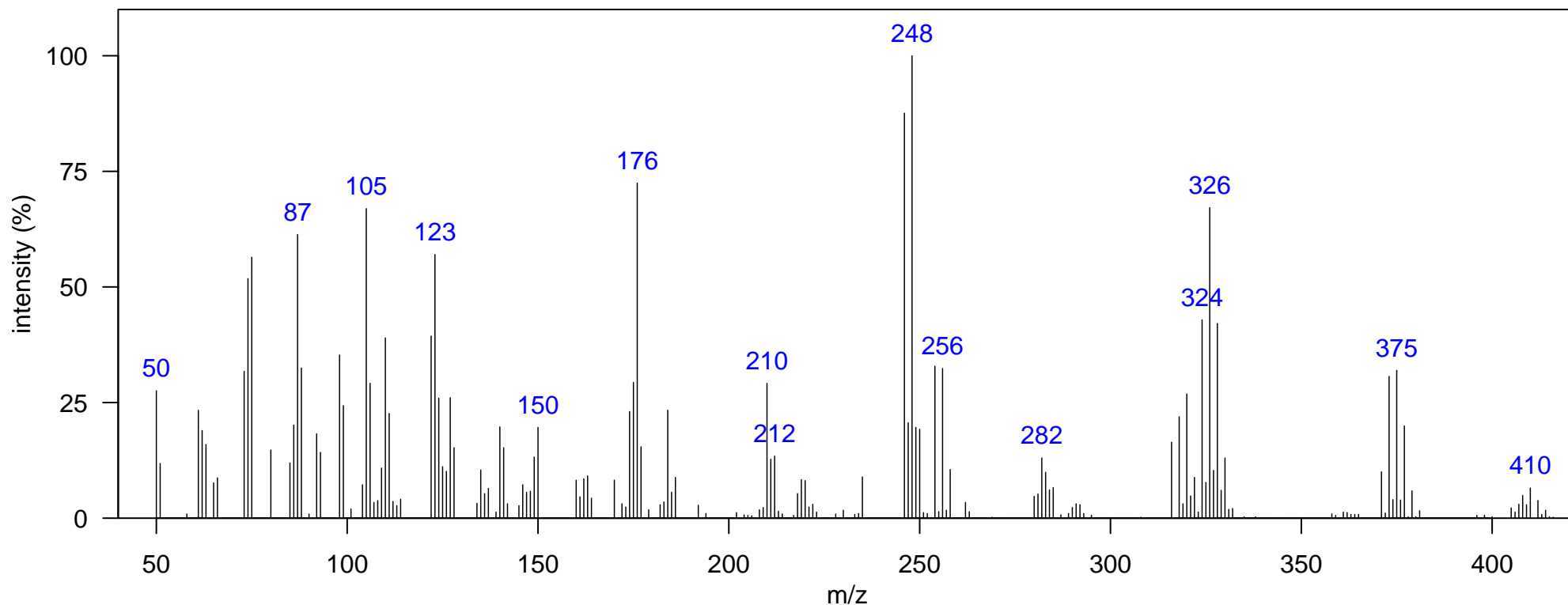
Name: alpha chlordane

Class: Chlordane-related

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

1D RT, 2D RT (s): 1352.07, 1.3  
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>

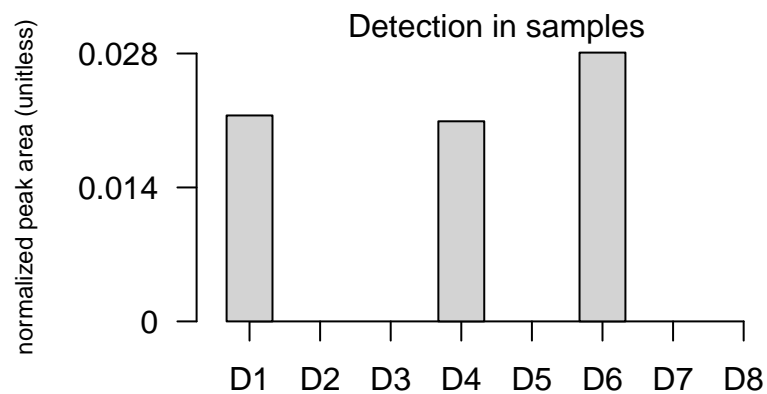
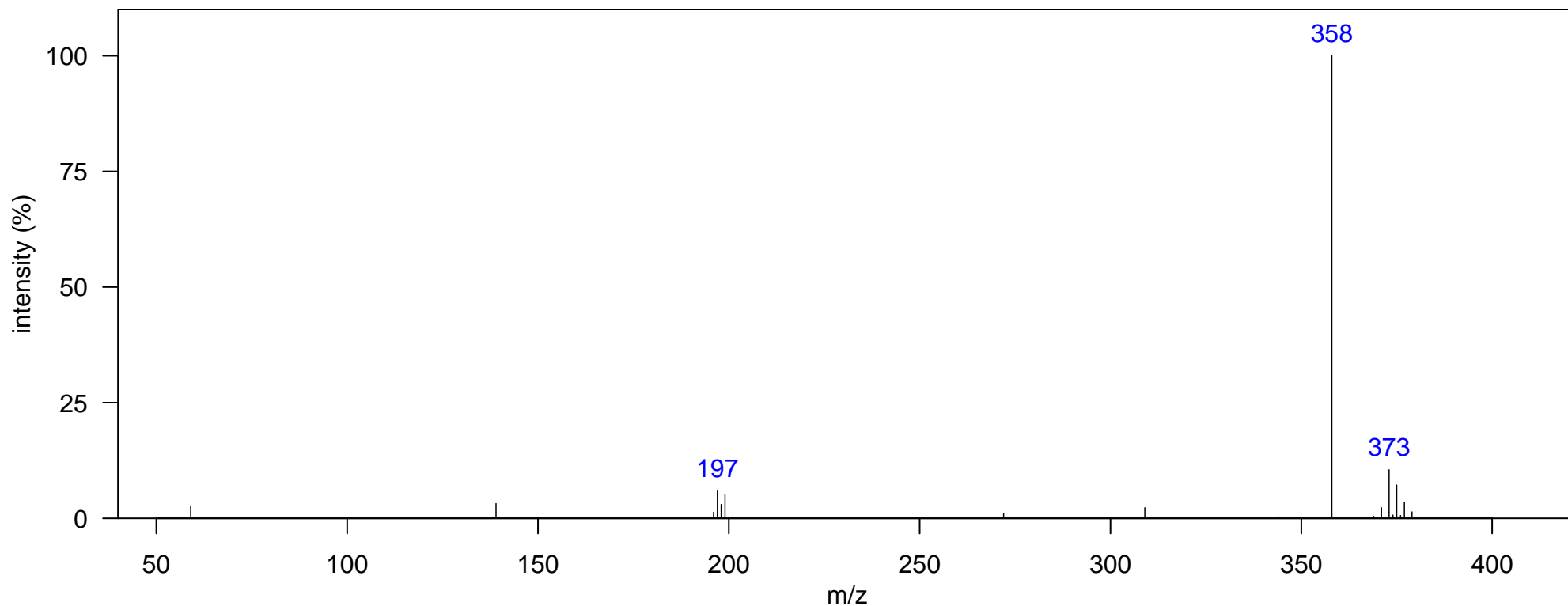
Name: chlordane related 11

Class: Chlordane-related

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

1D RT, 2D RT (s): 1394.05, 1.373  
Quantitative Ion m/z: 373  
Atlantic Lib: chlordane related 11

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>

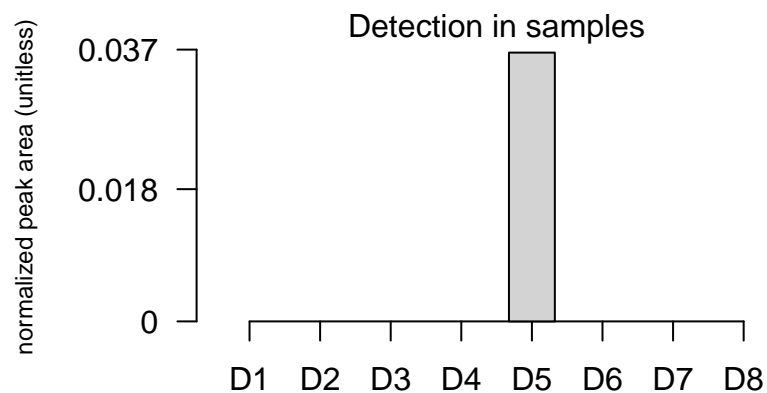
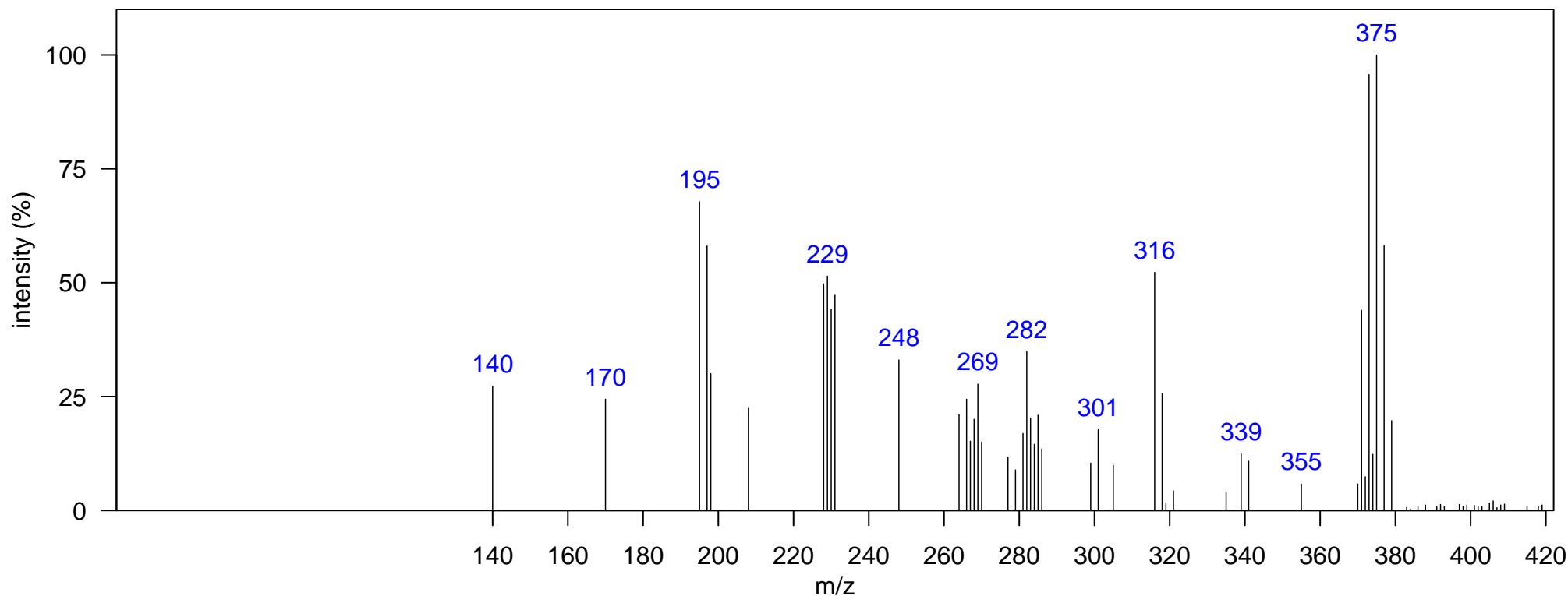
Name: chlordane related 12

Class: Chlordane-related

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1422.03, 1.432  
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>

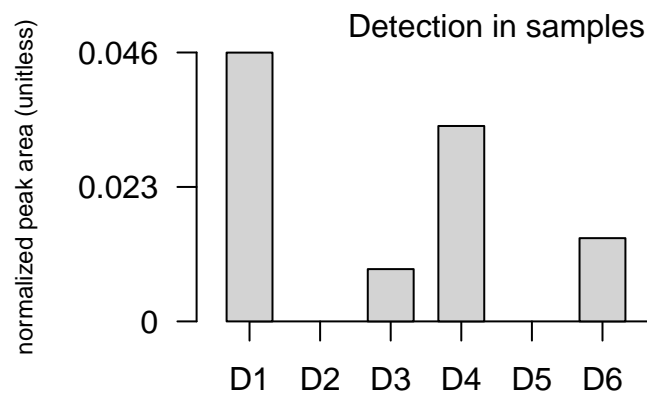
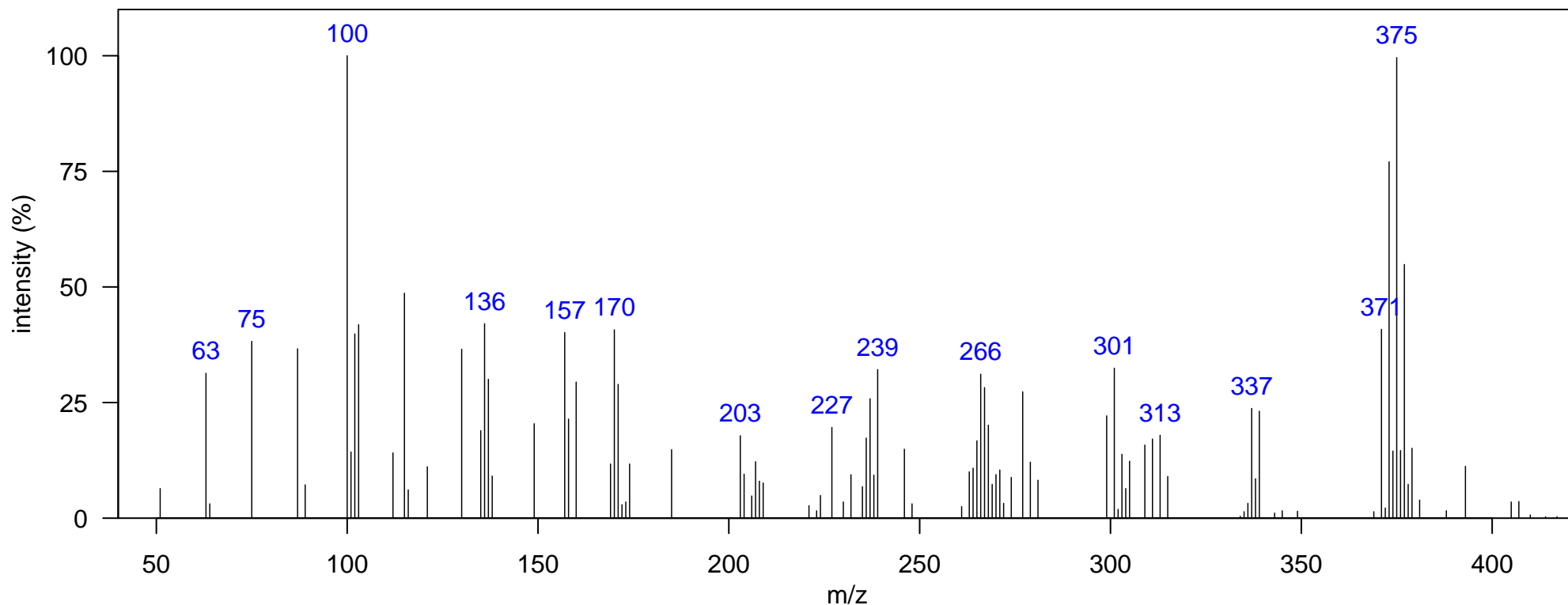
Name: chlordane related 13

Class: Chlordane-related

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

1D RT, 2D RT (s): 1446.52, 1.465  
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>

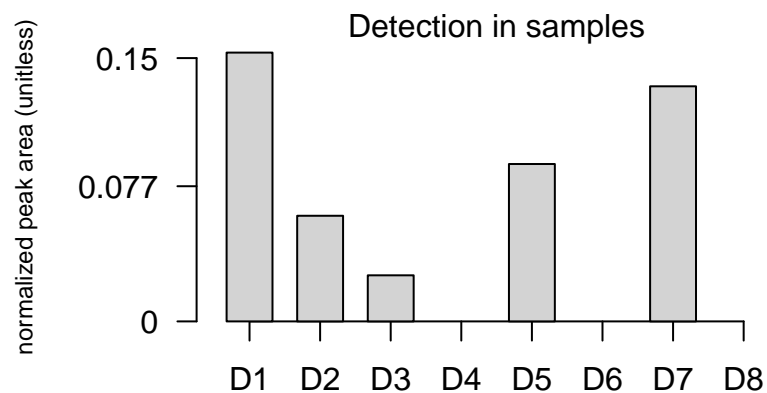
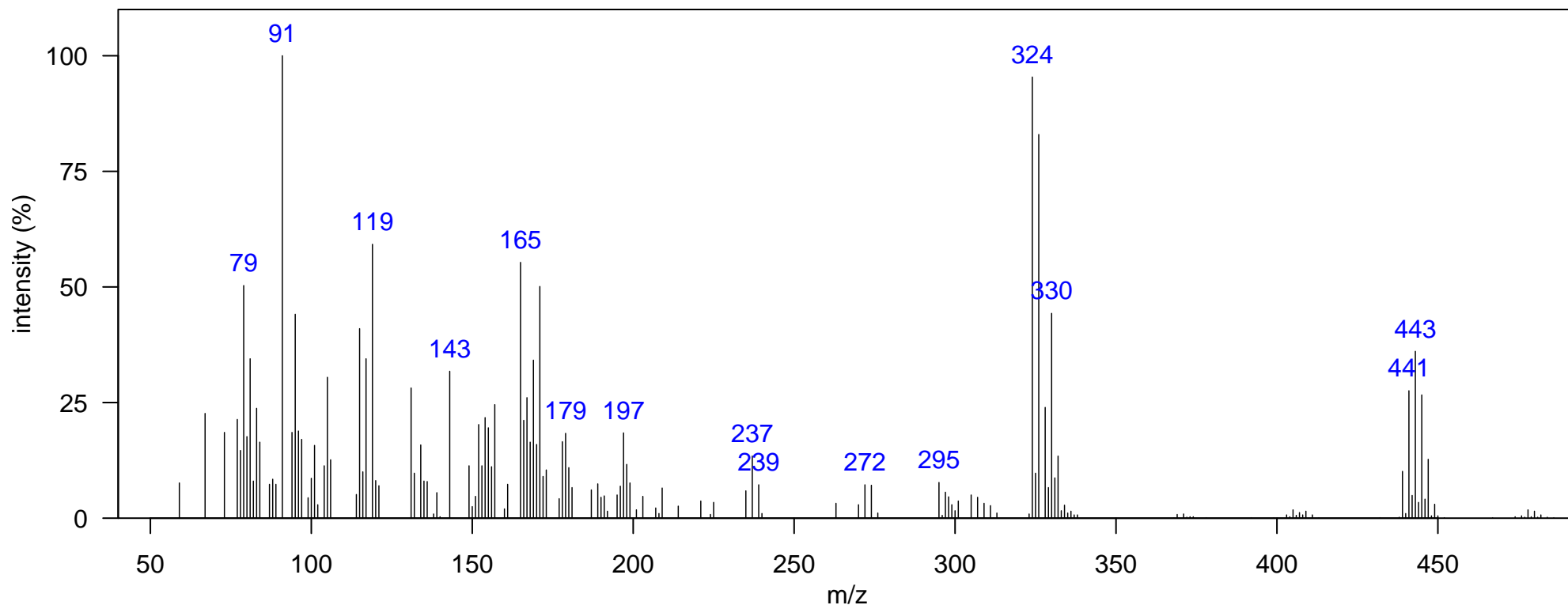
Name: chlordane related 14

Class: Chlordane-related

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

1D RT, 2D RT (s): 1408.04, 1.274  
Quantitative Ion m/z: 443  
Atlantic Lib: chlordane related 12

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



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

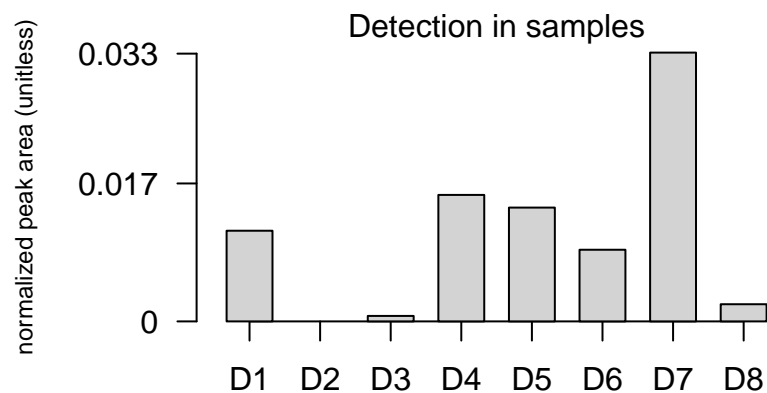
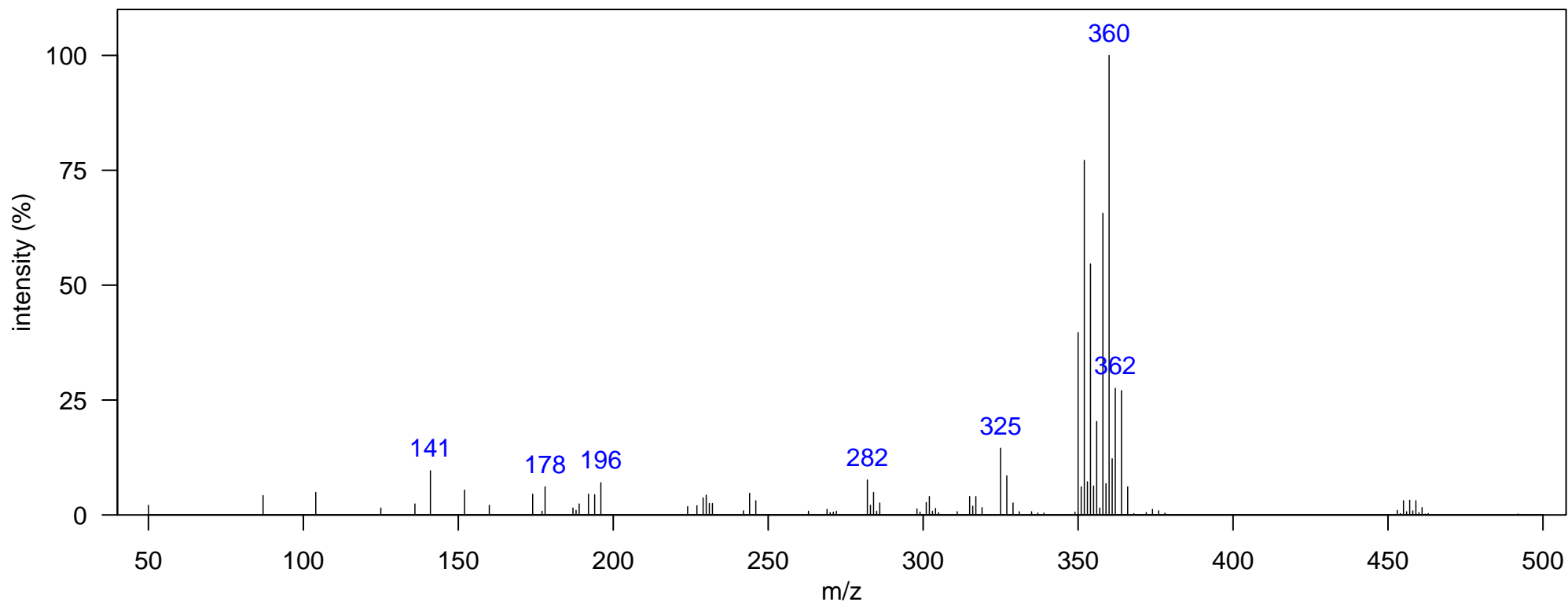
Name: chlordane related 15

Class: Chlordane-related

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: Ref: ES&T. 1991, 25, 245-254

1D RT, 2D RT (s): 1457.01, 1.313  
Quantitative Ion m/z: 457  
Atlantic Lib: chlordane related 14

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]

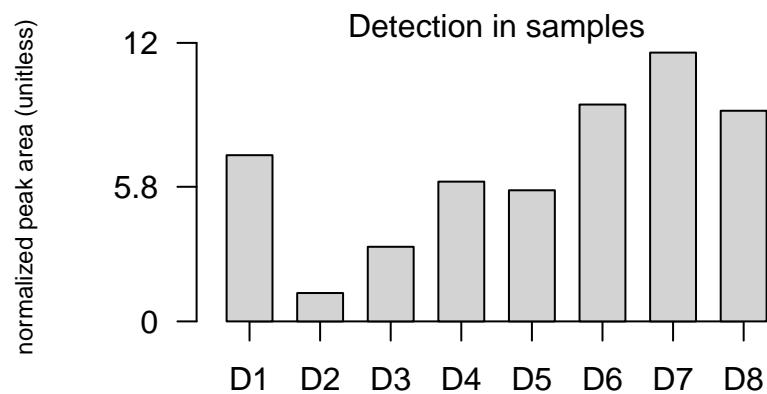
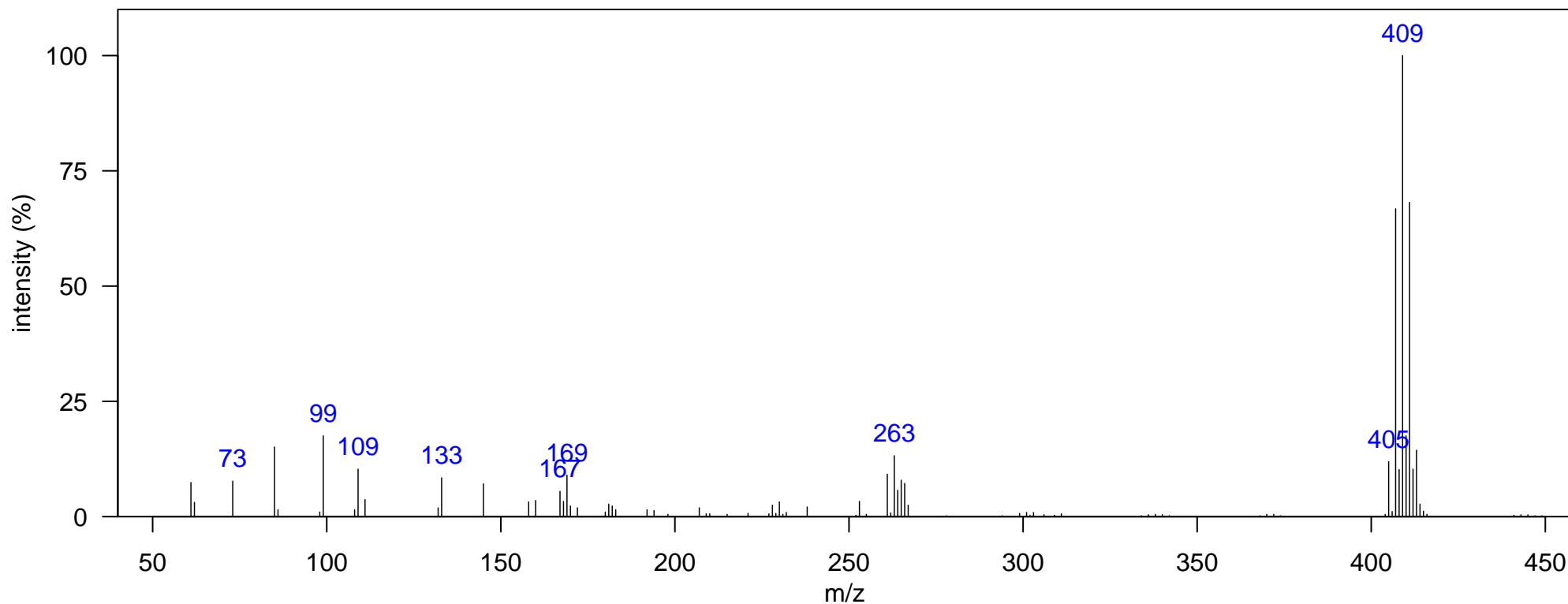
Name: trans nonachlor

Class: Chlordane-related

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

1D RT, 2D RT (s): 1355.57, 1.274  
Quantitative Ion m/z: 409  
Atlantic Lib: trans-nonachlor

Elemental Formula: C<sub>10</sub>H<sub>5</sub>Cl<sub>9</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



m/z [Fragment]
261 [M-H4Cl5]+
409 [M-Cl]+

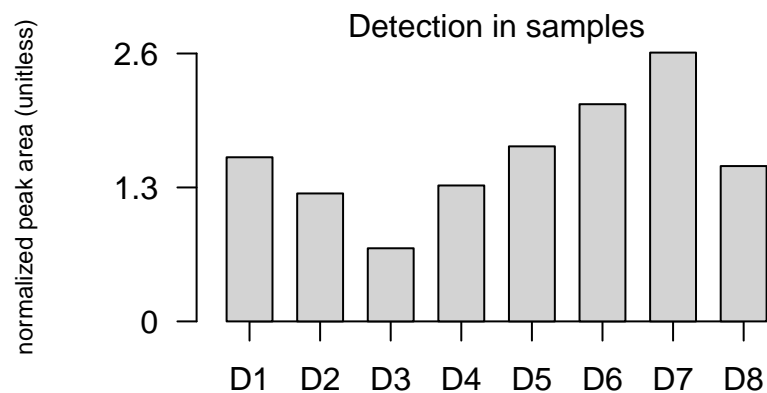
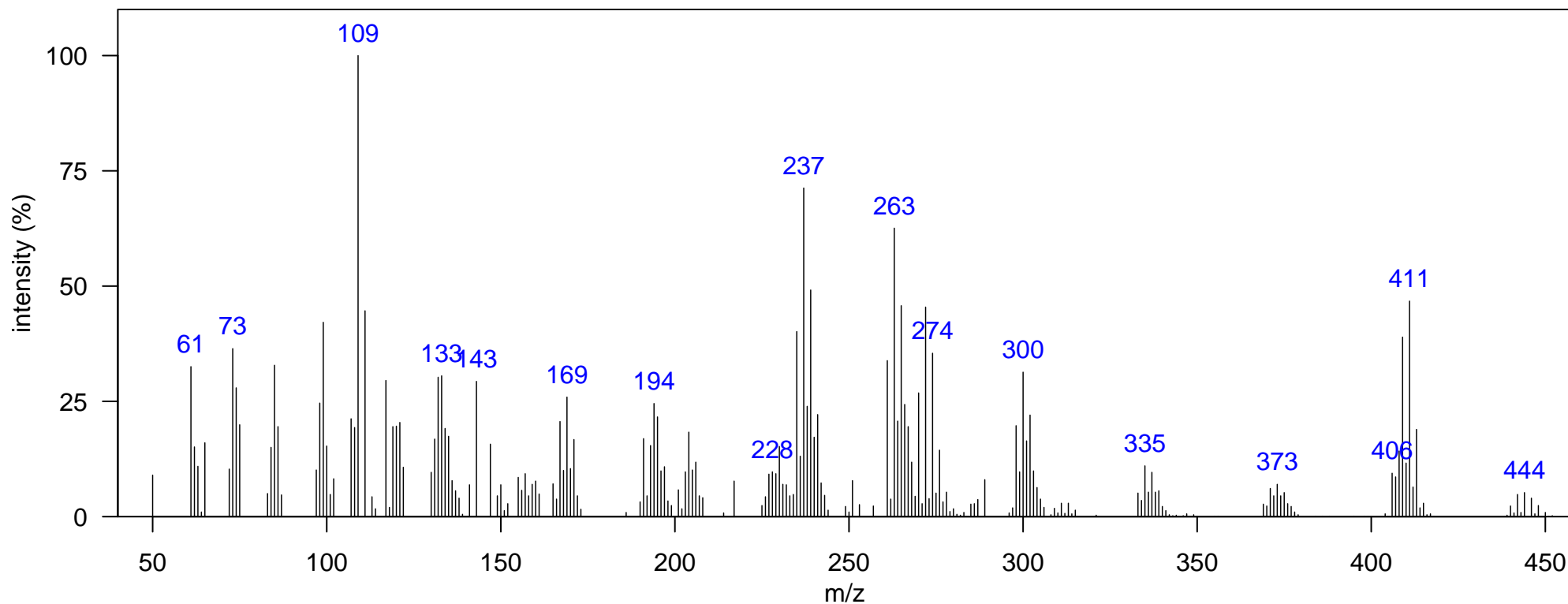
Name: cis nonachlor

Class: Chlordane-related

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

1D RT, 2D RT (s): 1425.53, 1.36  
Quantitative Ion m/z: 409  
Atlantic Lib: cis-nonachlor

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

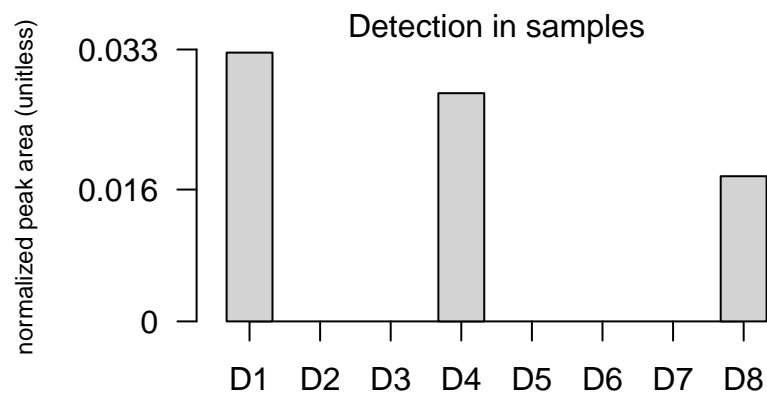
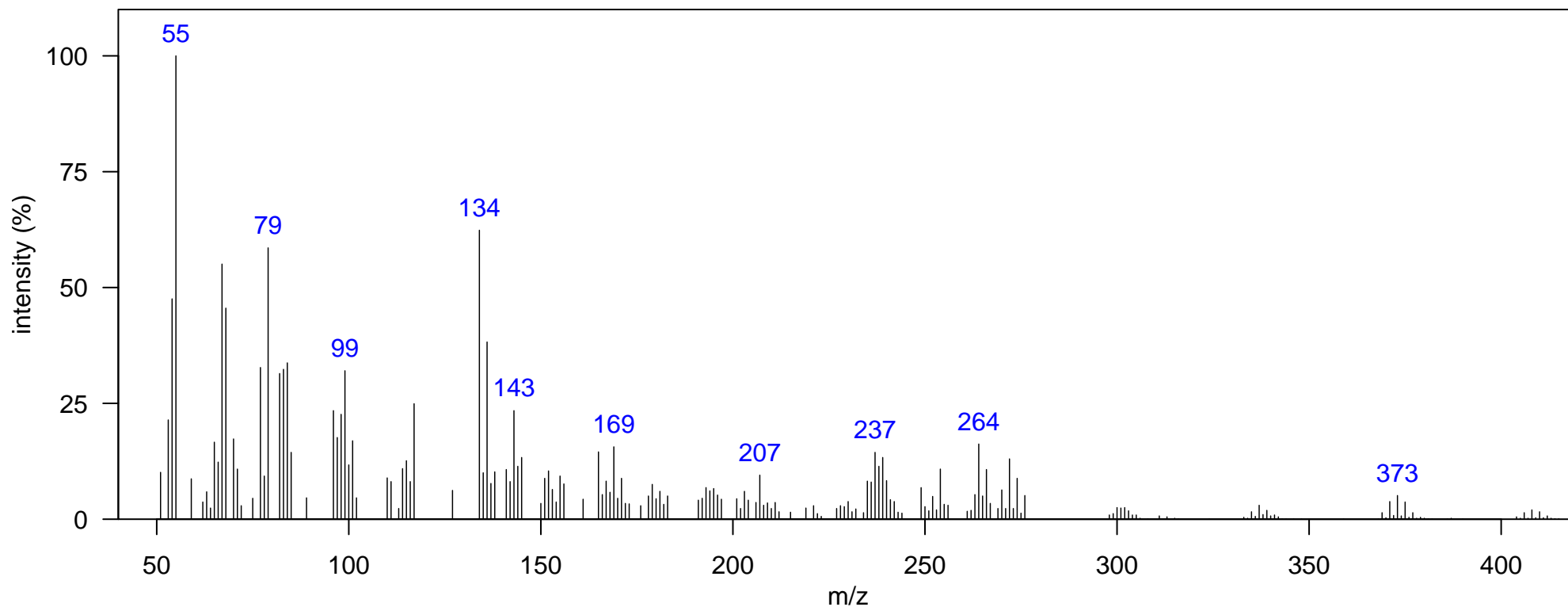


Class: Heptachlor-related

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

1D RT, 2D RT (s): 1278.61, 1.201  
Quantitative Ion m/z: 373  
Atlantic Lib:

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



m/z [Fragment]

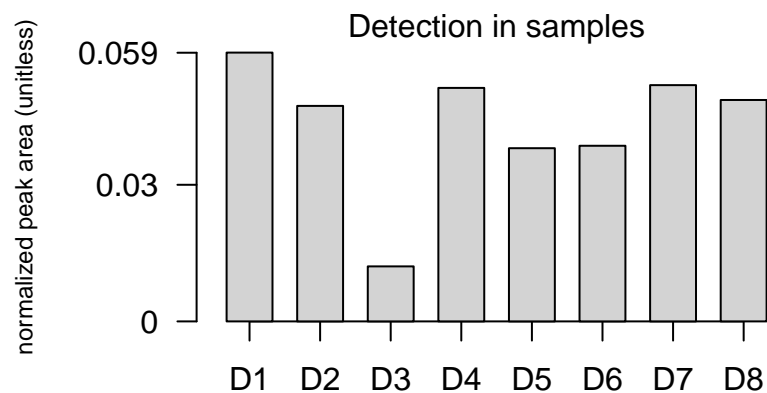
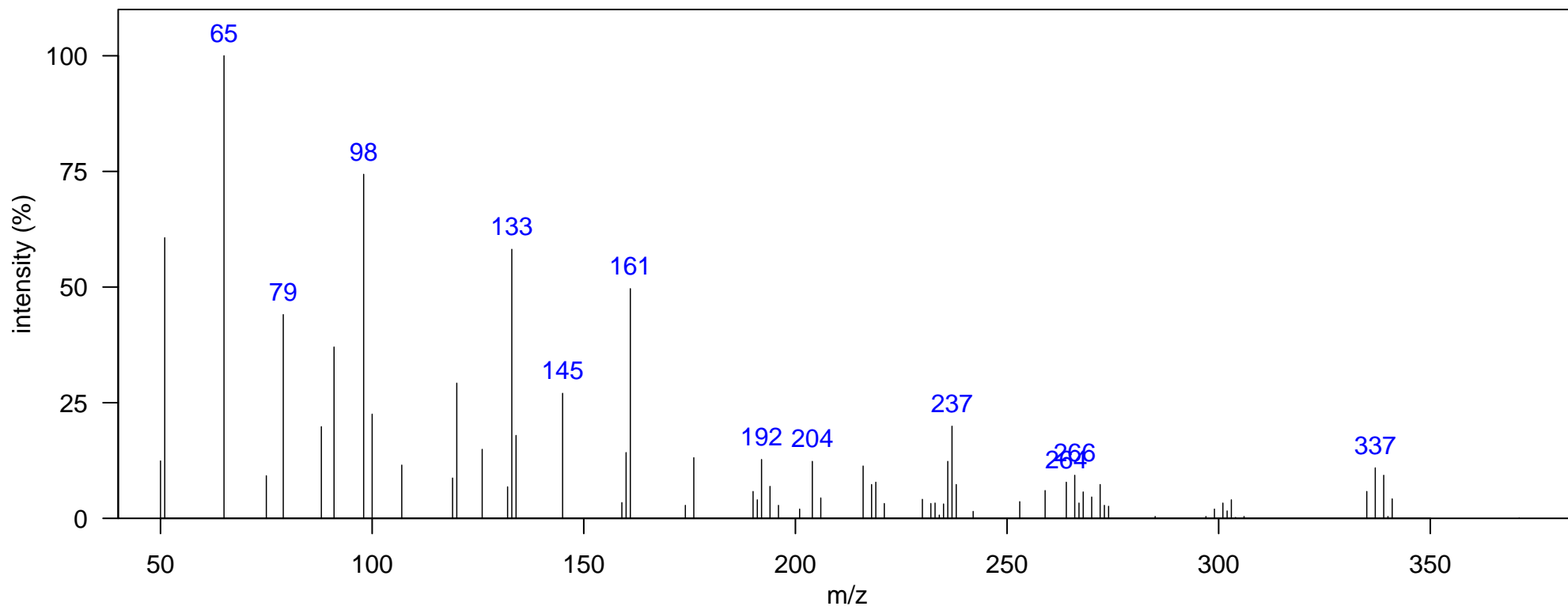
Name: heptachlor related 2

Class: Heptachlor-related

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

1D RT, 2D RT (s): 1285.61, 1.3  
Quantitative Ion m/z: 337  
Atlantic Lib: heptachlor related 2

Elemental Formula: C<sub>10</sub>H<sub>5</sub>Cl<sub>7</sub>  
Source: anthropogenic  
Identification: Manual-Congener Group



m/z [Fragment]
264 [M-HCl3]
335 [M-Cl]+

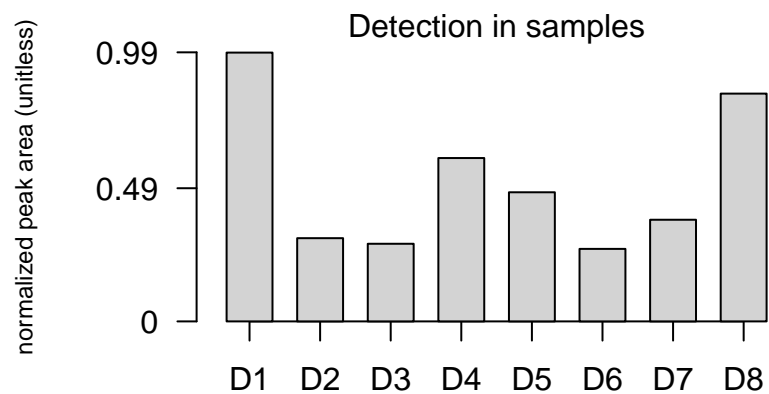
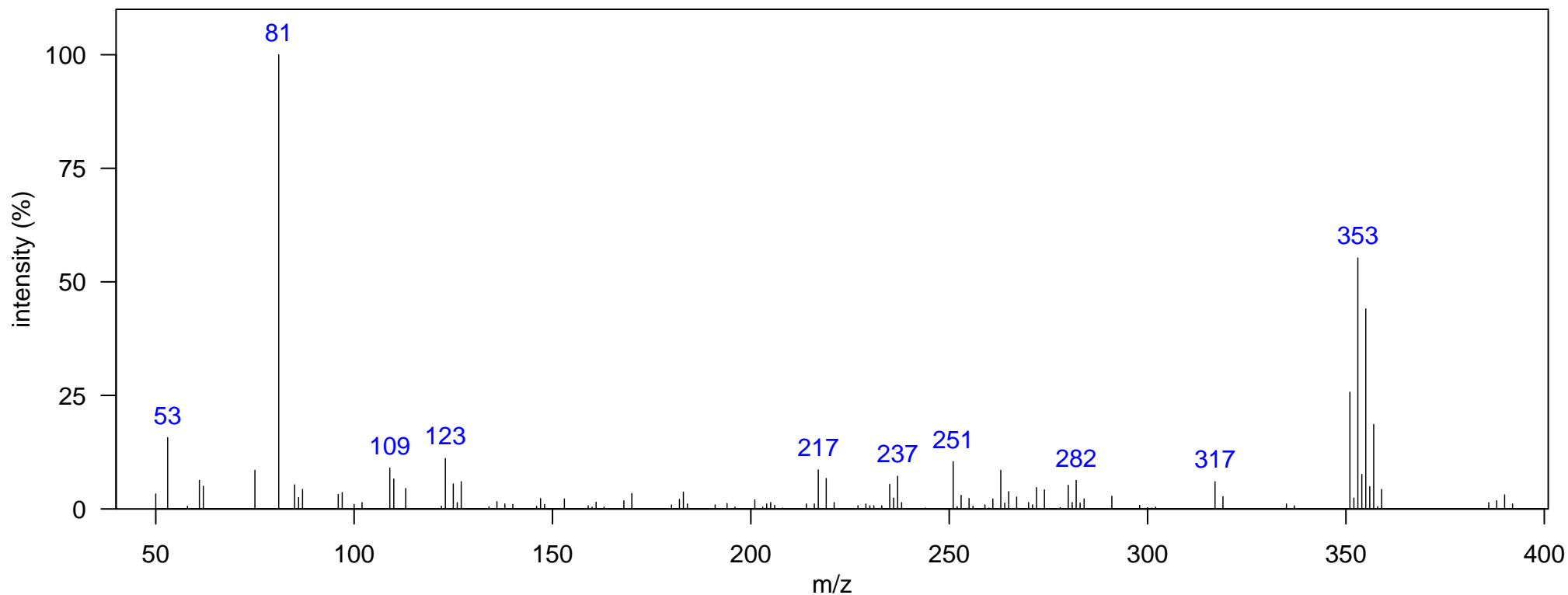
Name: heptachlor epoxide

Class: Heptachlor-related

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

1D RT, 2D RT (s): 1306.6, 1.287  
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>

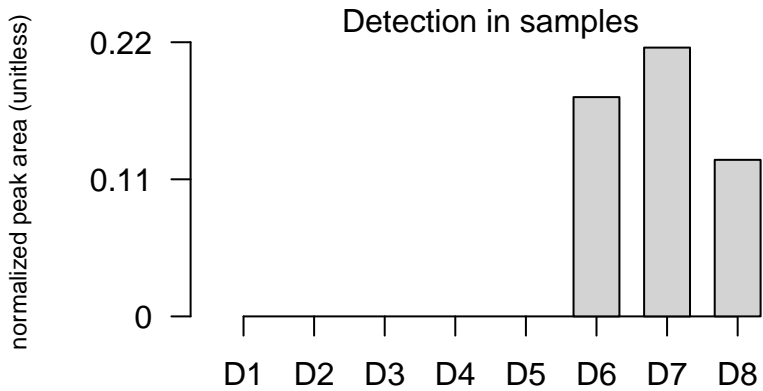
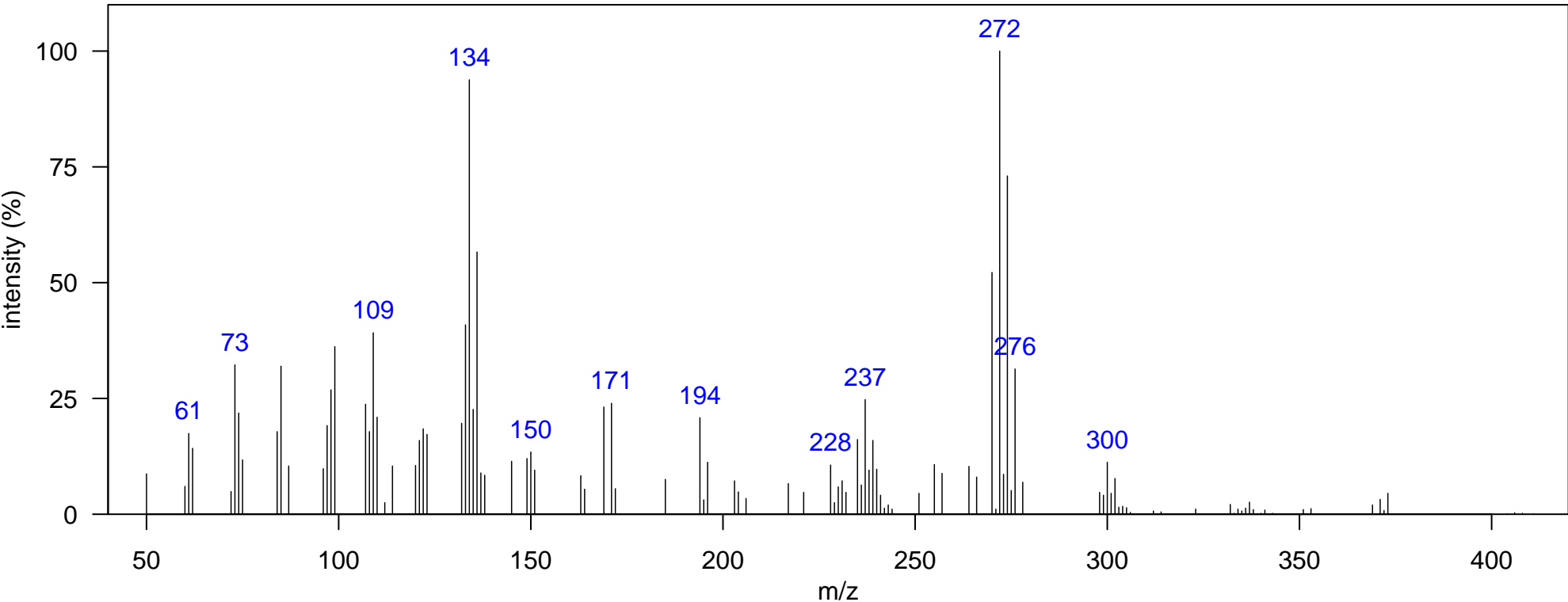
Name: heptachlor related 3

Class: Heptachlor-related

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1338.08, 1.327  
Quantitative Ion m/z: 272  
Atlantic Lib: heptachlor related 3

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]+

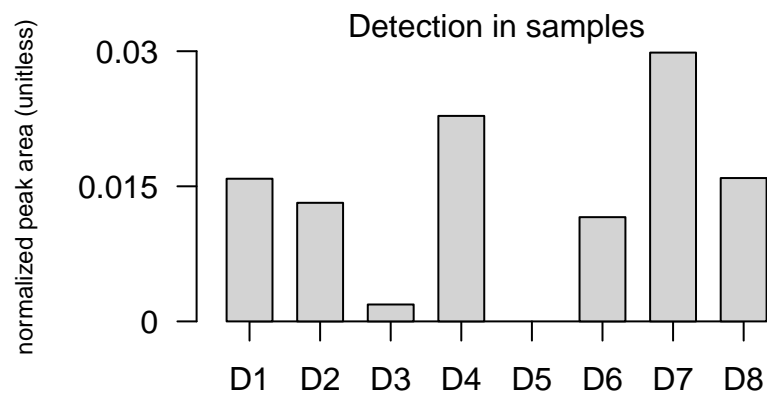
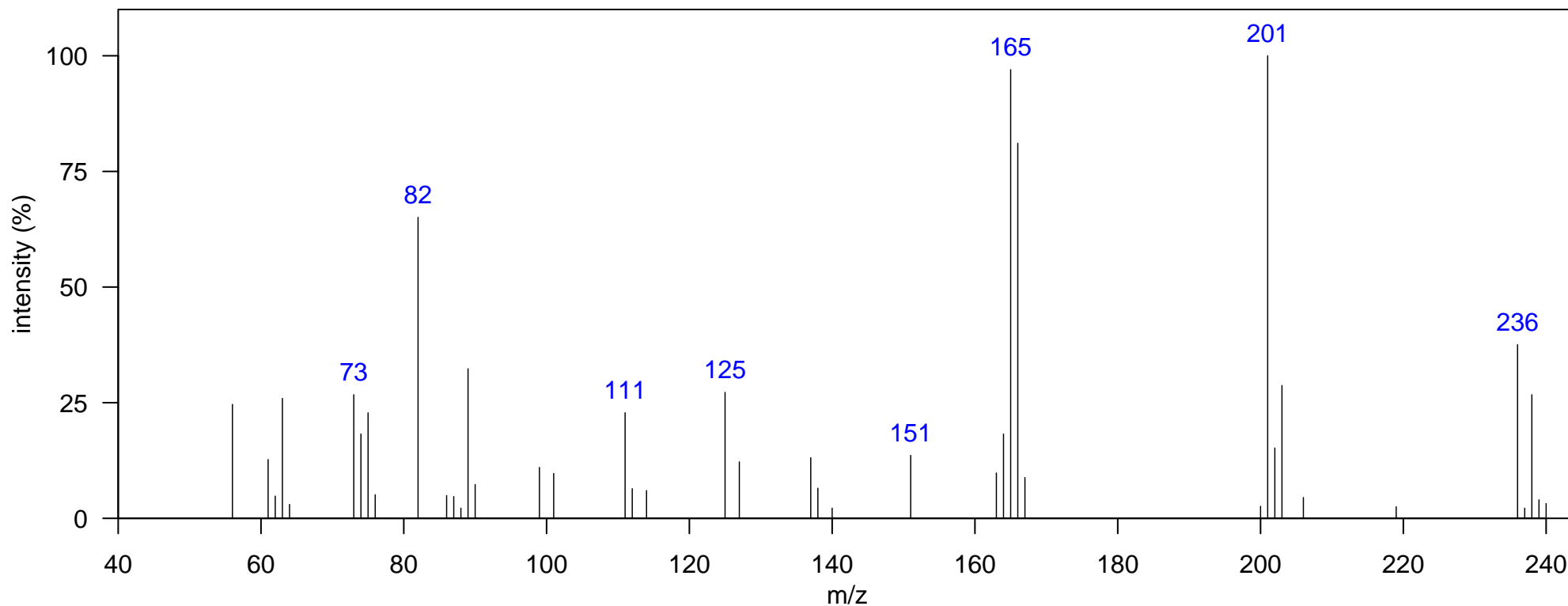
## Name: DDT related 1

## Class: DDT-related

Sample: SoCal dolphin blubber D4,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: bis(p-chlorophenyl)-methane

1D RT, 2D RT (s): 1166.68, 1.228  
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+

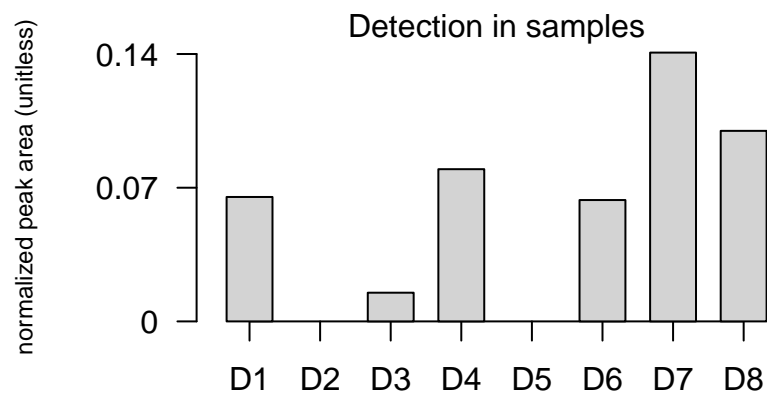
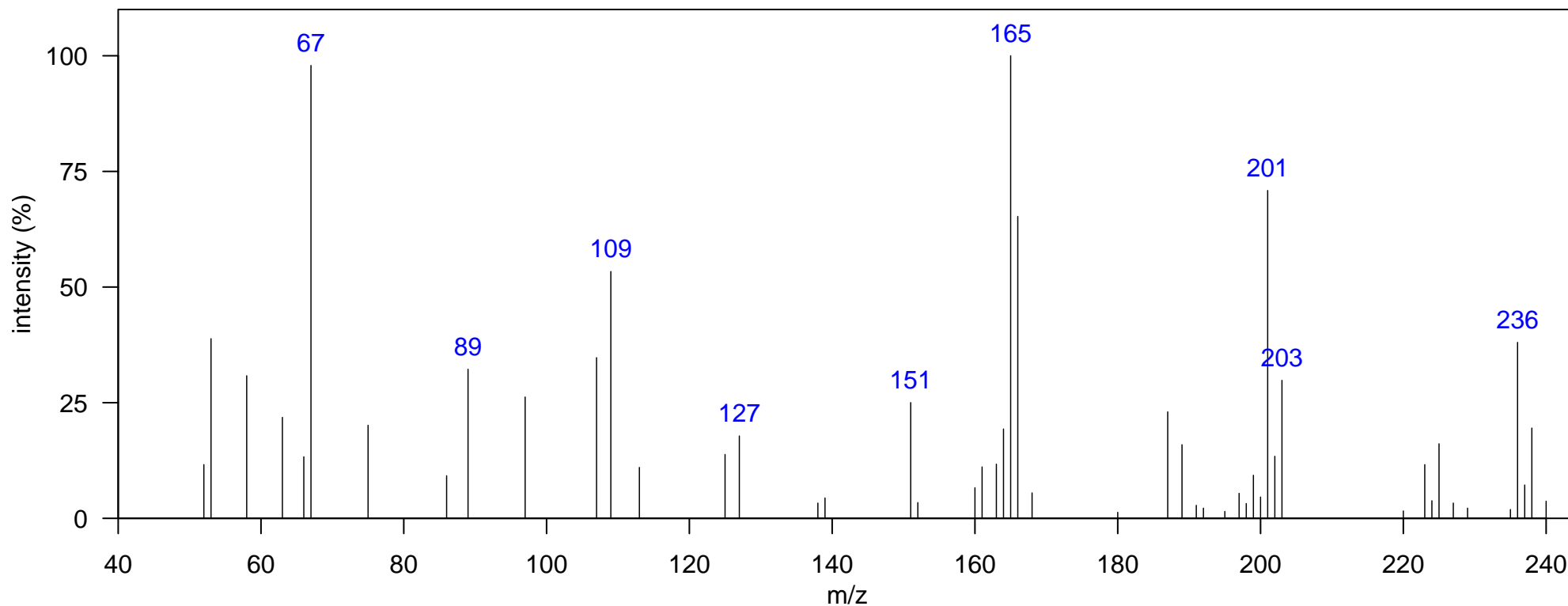
## Name: DDT related 2

## Class: DDT-related

Sample: SoCal dolphin blubber D1,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: bis(p-chlorophenyl)-methane

1D RT, 2D RT (s): 1187.66, 1.228  
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,

1D RT, 2D RT (s): 1219.15, 1.214

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

Ecotype: coastal

Quantitative Ion m/z: 235

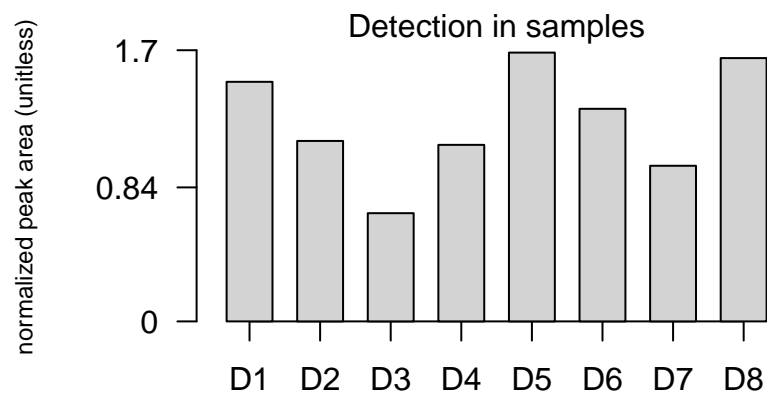
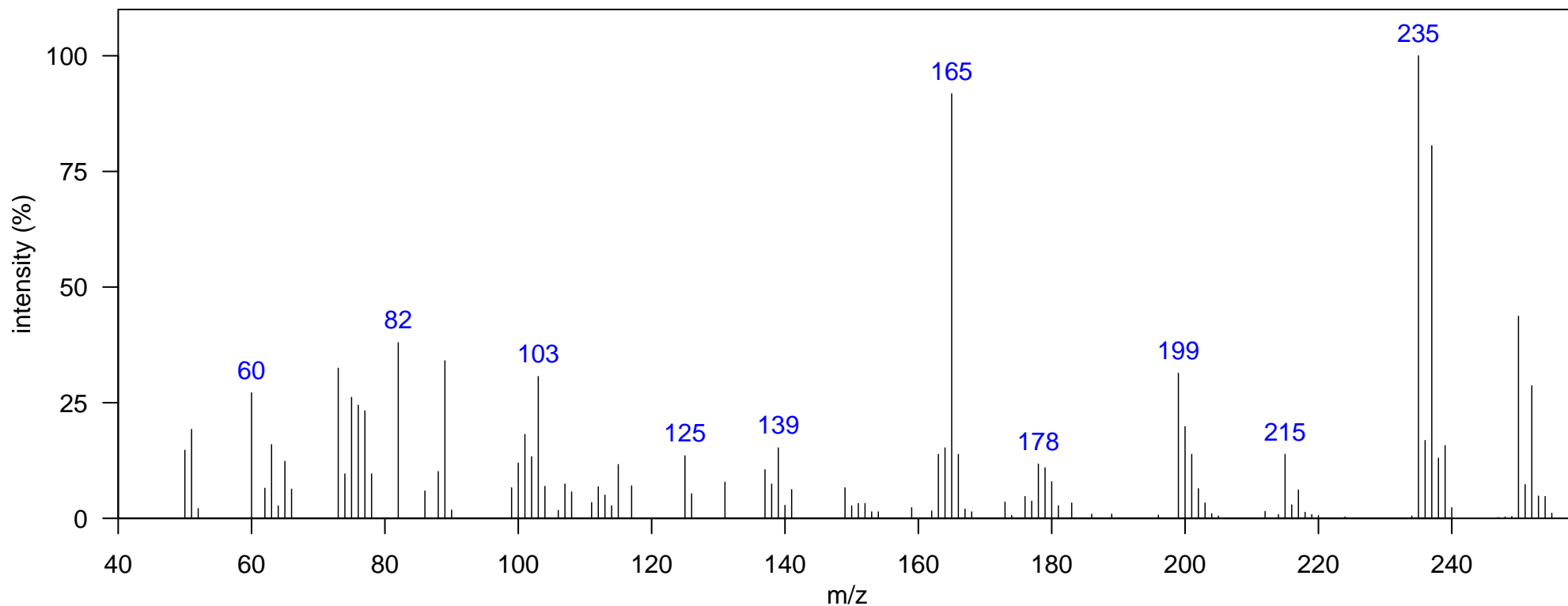
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDEt

Identification: Reference Database MS

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



m/z [Fragment]
165 [M-CH3-Cl2]+
235 [M-CH3]+
250 M+

## Name: DDT related 4

## Class: DDT-related

Sample: SoCal dolphin blubber D3,

1D RT, 2D RT (s): 1222.64, 1.181

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

Ecotype: coastal

Quantitative Ion m/z: 248

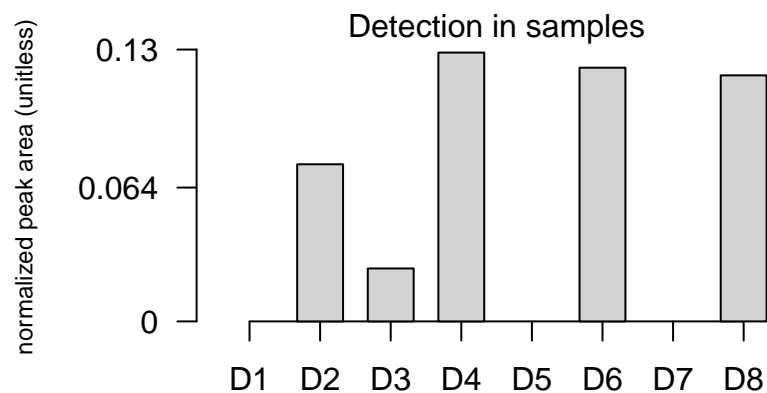
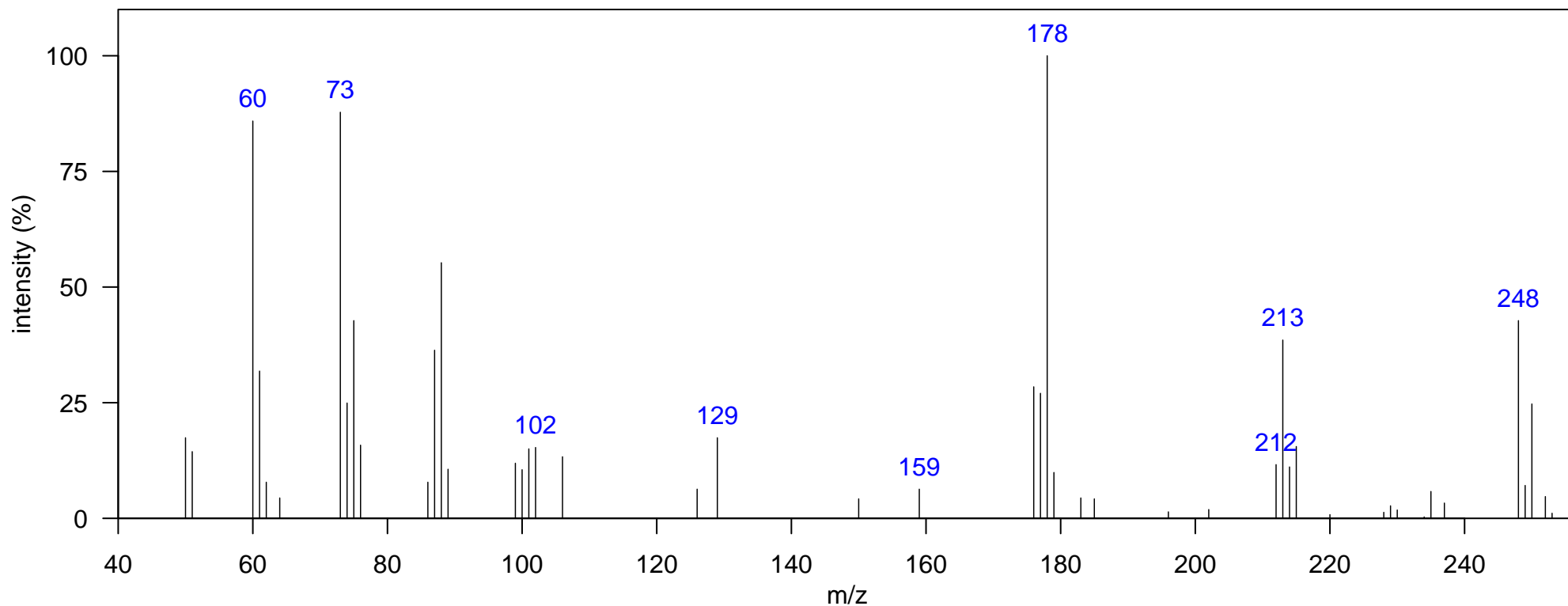
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Reference Database MS

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



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,

1D RT, 2D RT (s): 1362.56, 1.01

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

Ecotype: offshore

Quantitative Ion m/z: 248

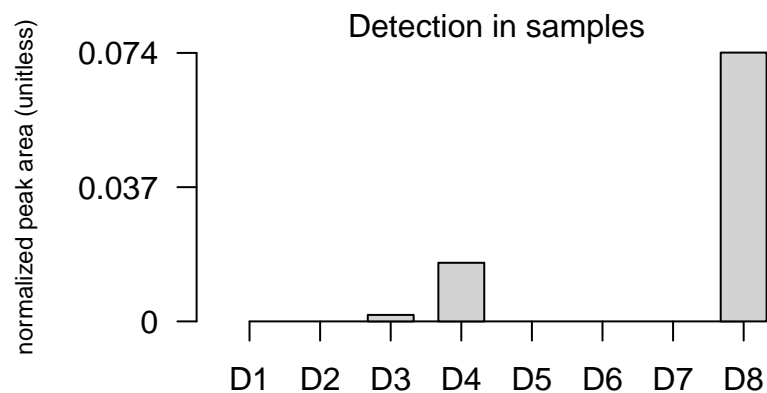
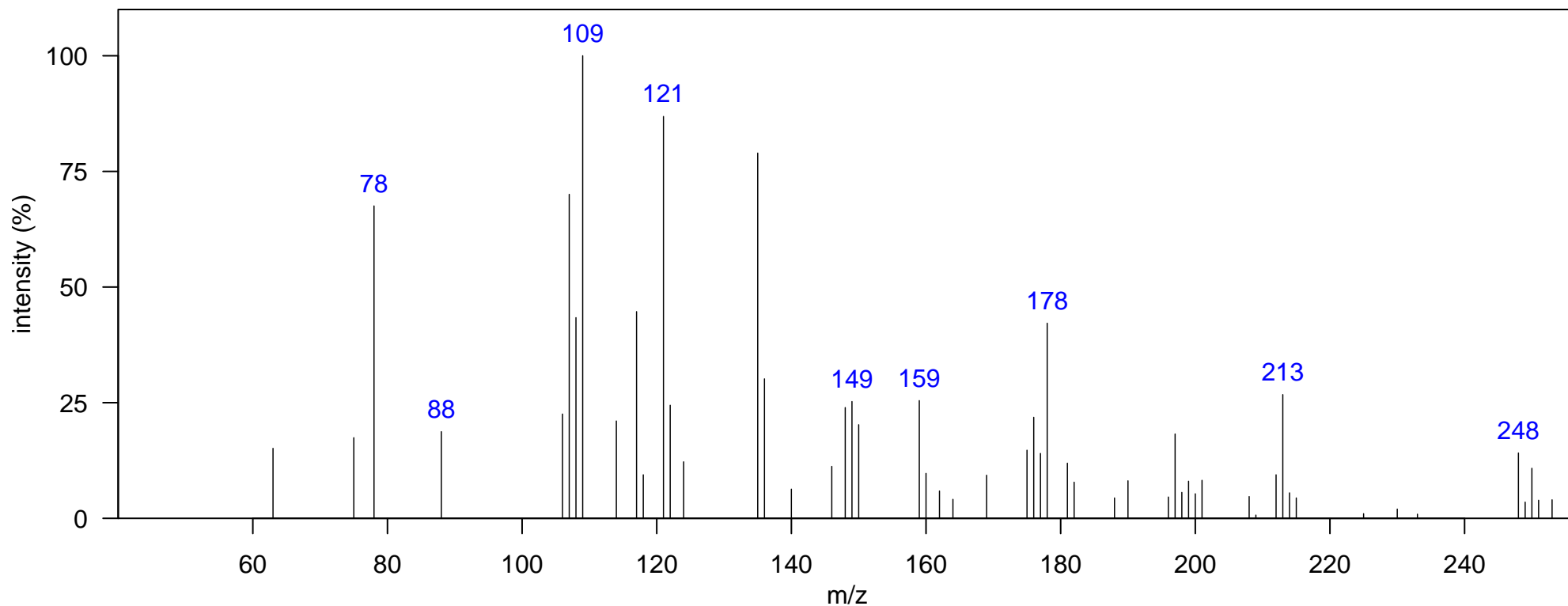
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Reference Database MS

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



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,

1D RT, 2D RT (s): 1369.56, 1.003

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

Ecotype: offshore

Quantitative Ion m/z: 178

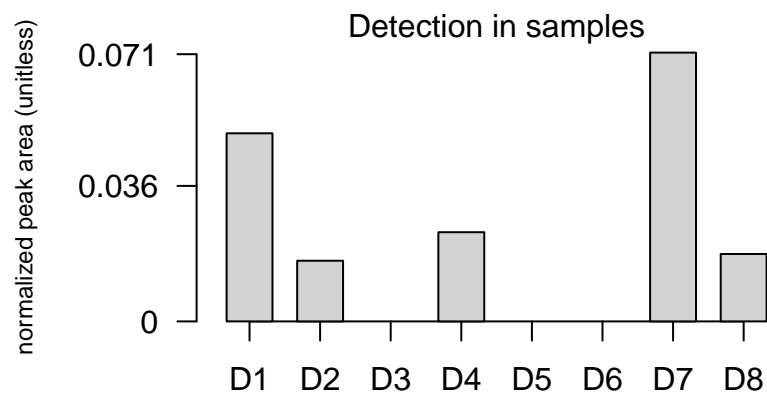
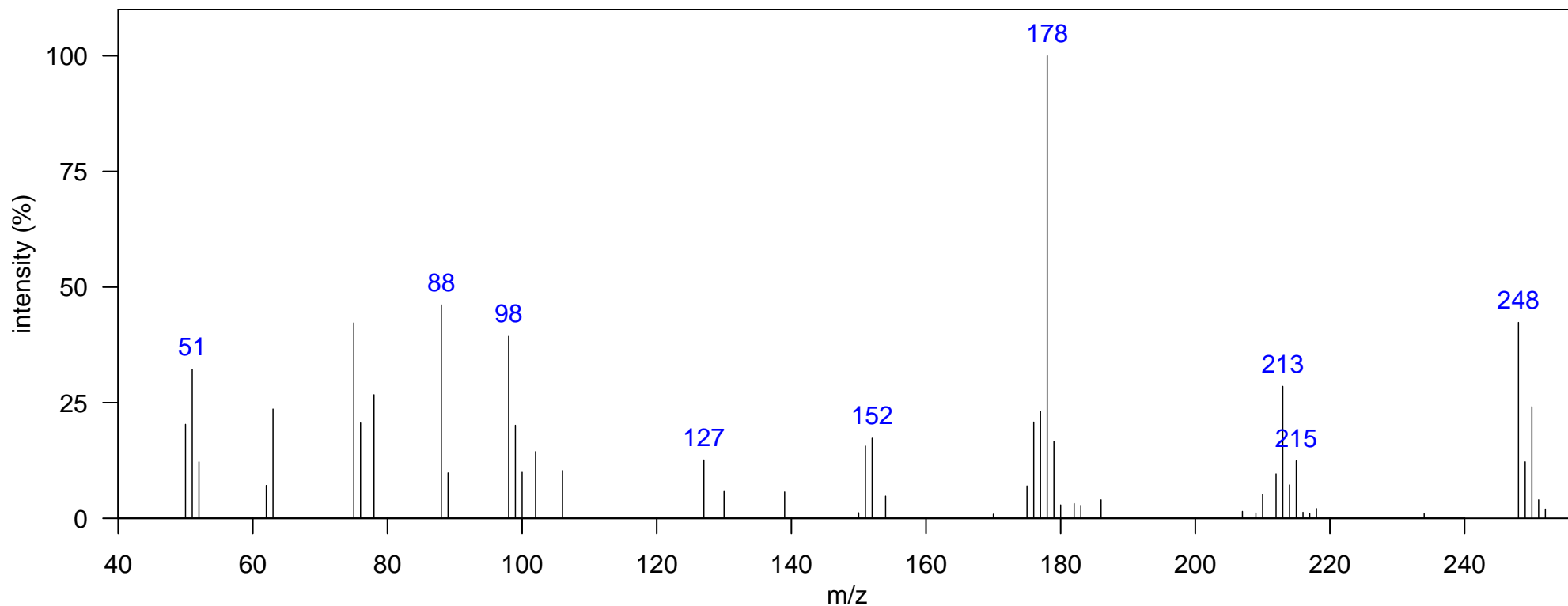
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Reference Database MS

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



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

Sample: SoCal dolphin blubber D2,

1D RT, 2D RT (s): 1415.03, 0.964

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

Ecotype: offshore

Quantitative Ion m/z: 213

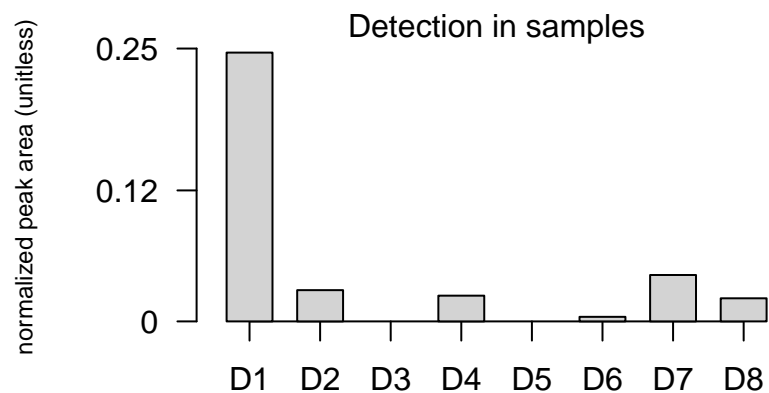
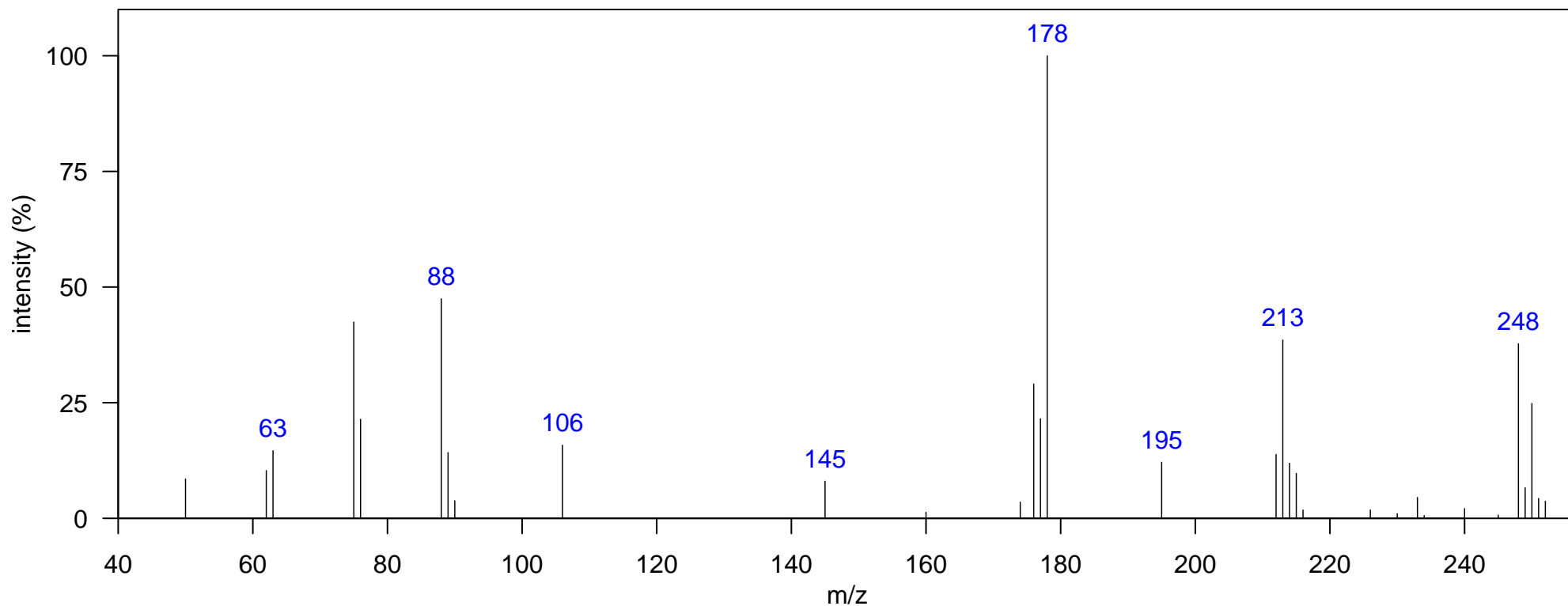
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Reference Database MS

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



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

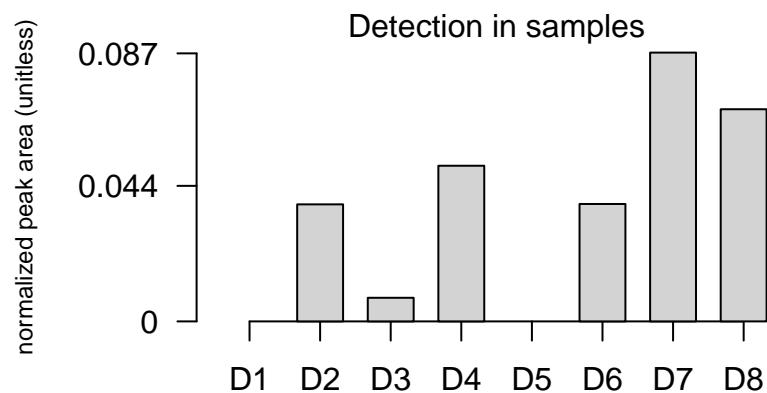
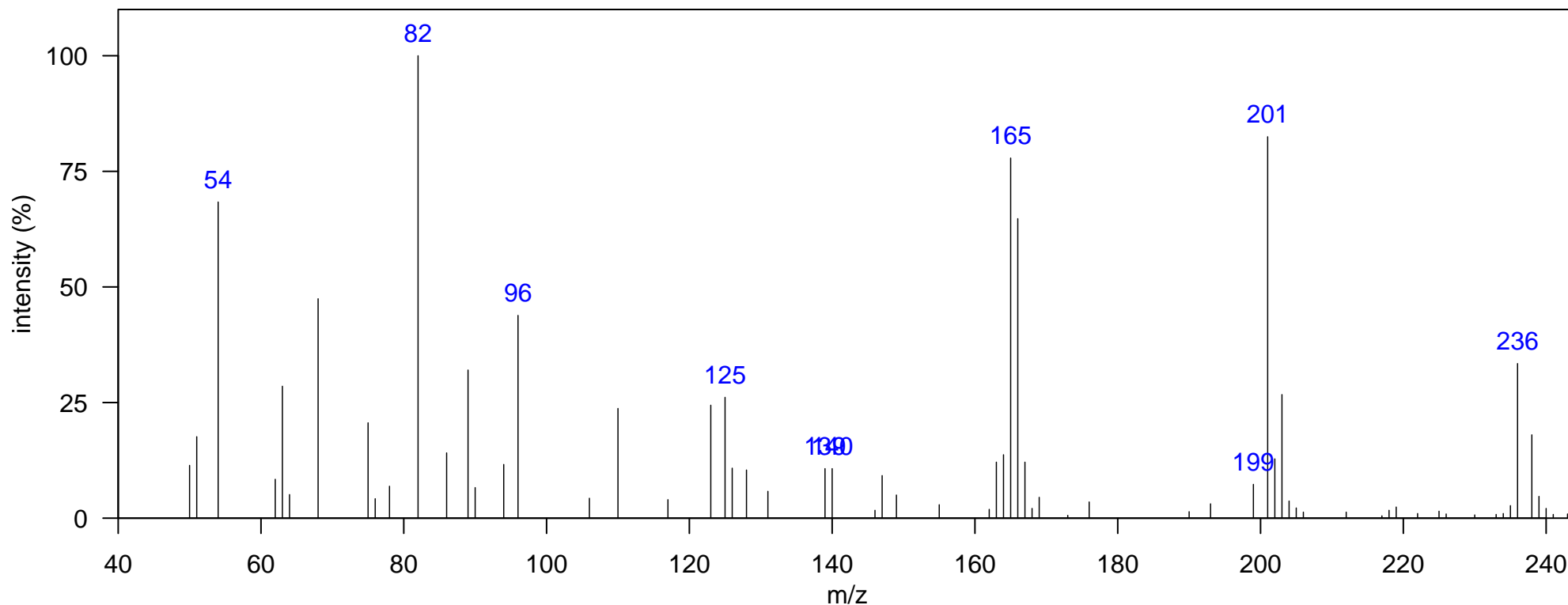
Name: DDT related 8

Class: DDT-related

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: bis(p-chlorophenyl)-methane

1D RT, 2D RT (s): 1411.54, 0.944  
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>

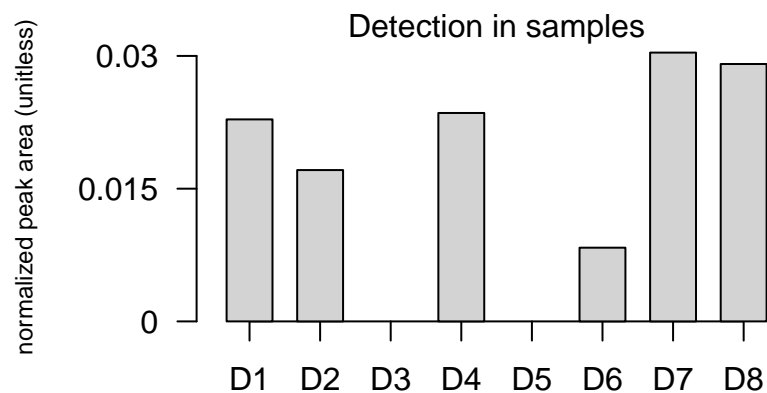
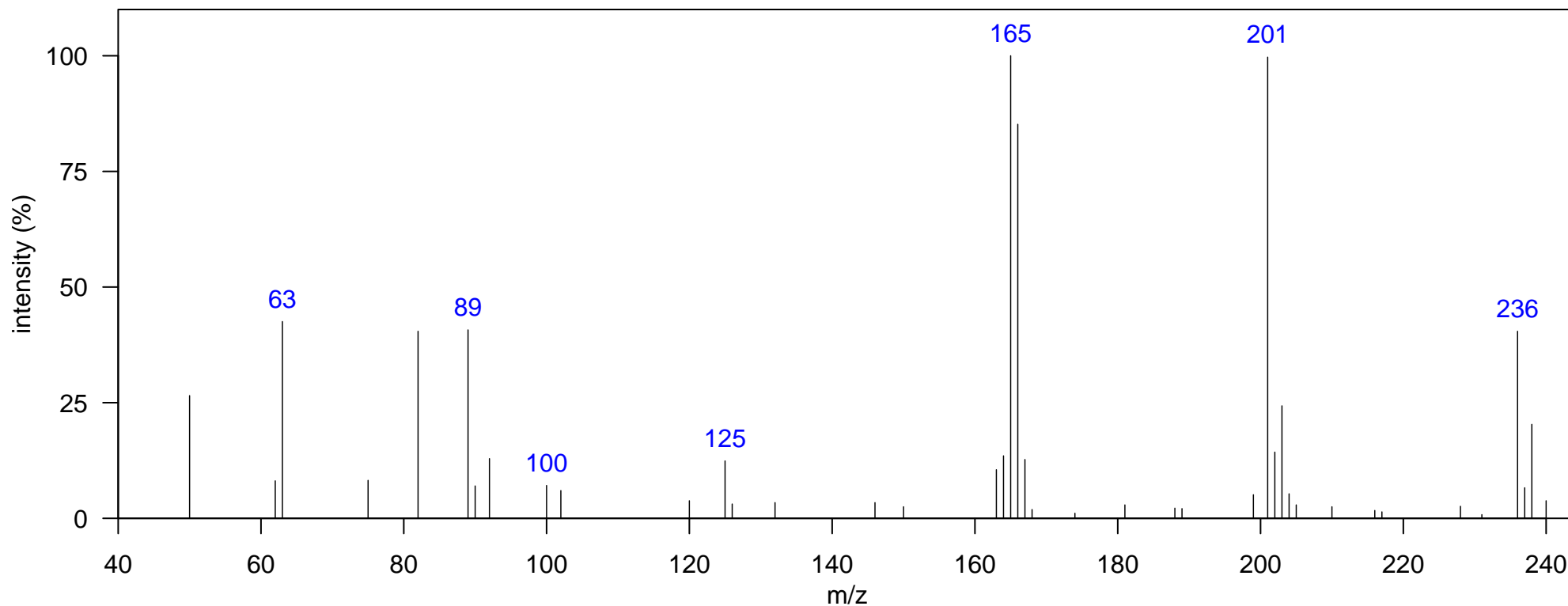
Name: DDT related 9

Class: DDT-related

Sample: SoCal dolphin blubber D8,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: bis(p-chlorophenyl)-methane

1D RT, 2D RT (s): 1450.01, 0.917  
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,

1D RT, 2D RT (s): 1464.01, 1.082

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

Ecotype: coastal

Quantitative Ion m/z: 235

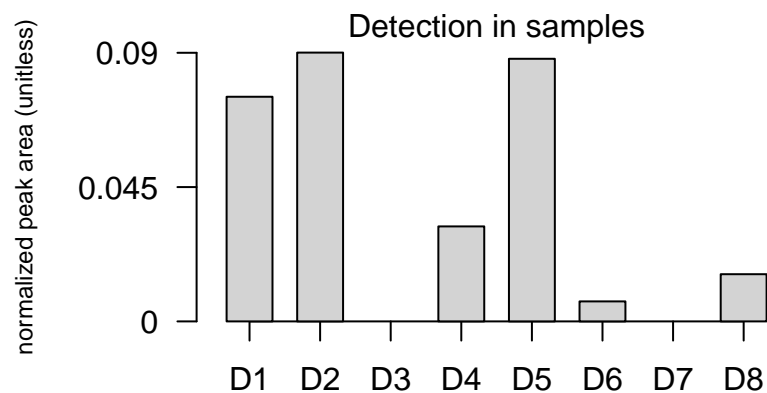
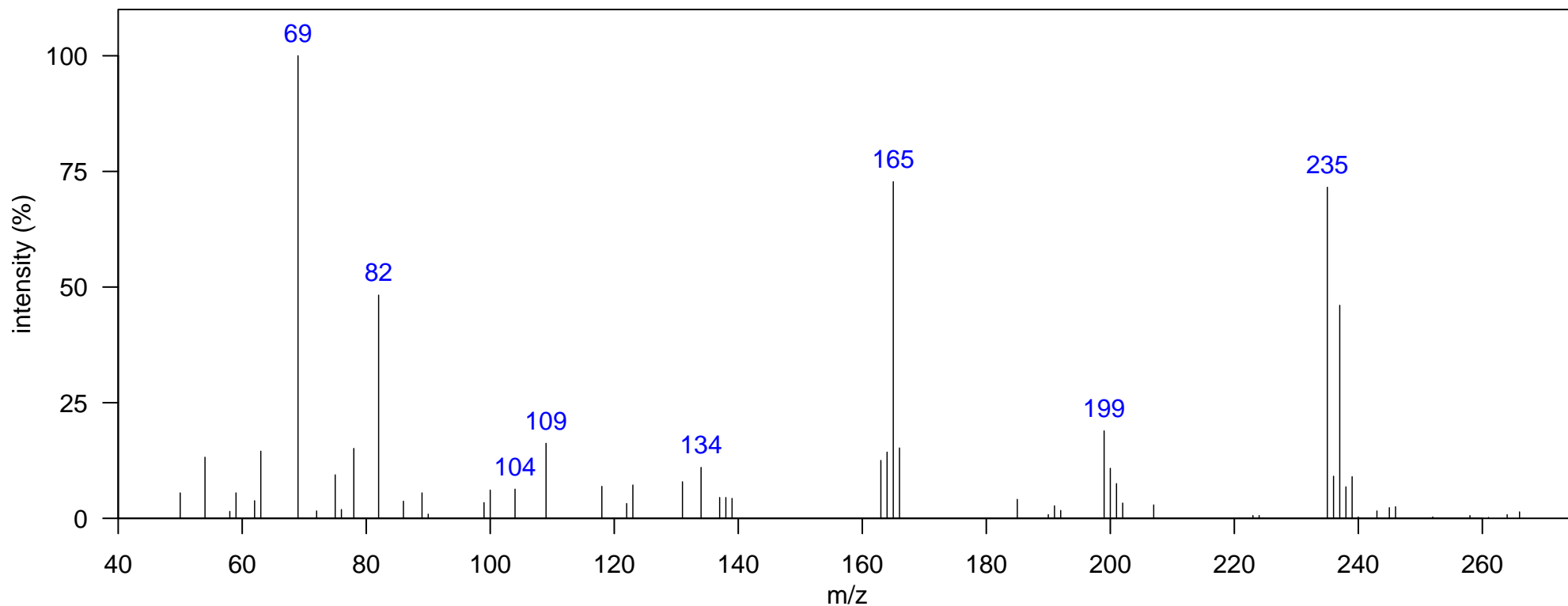
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDT

Identification: Reference Database MS

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



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

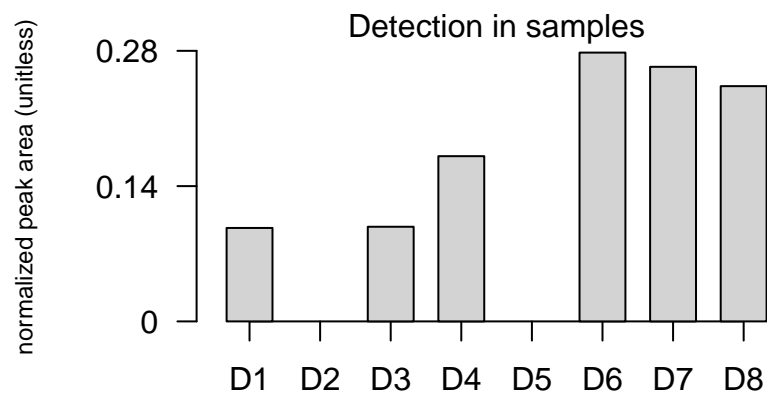
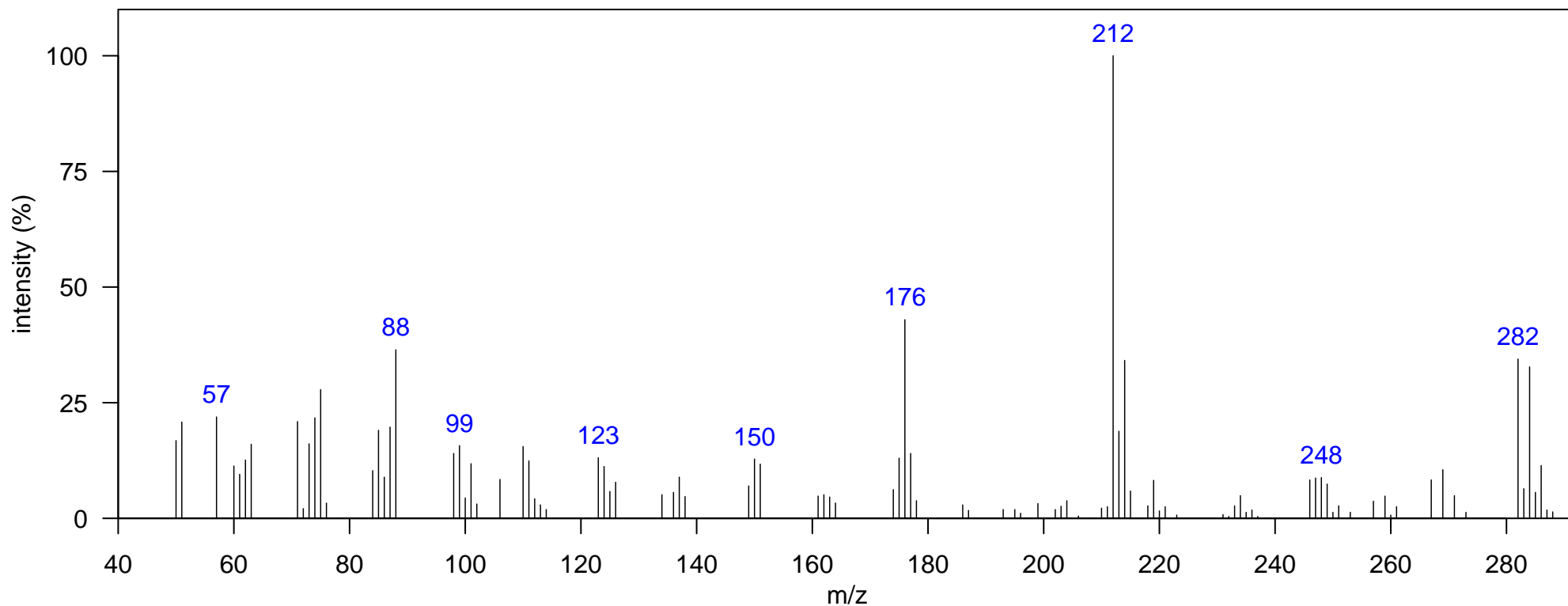
Name: DDMU 1

Class: DDT-related

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

1D RT, 2D RT (s): 1254.13, 1.254  
Quantitative Ion m/z: 212  
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>  
Source: anthropogenic  
Identification: Authentic MS



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

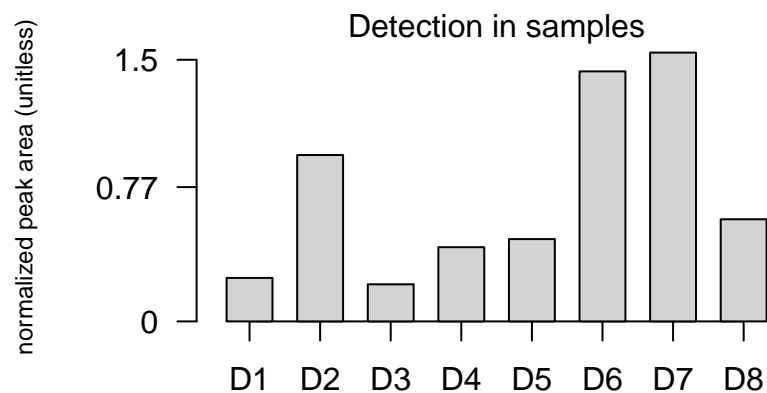
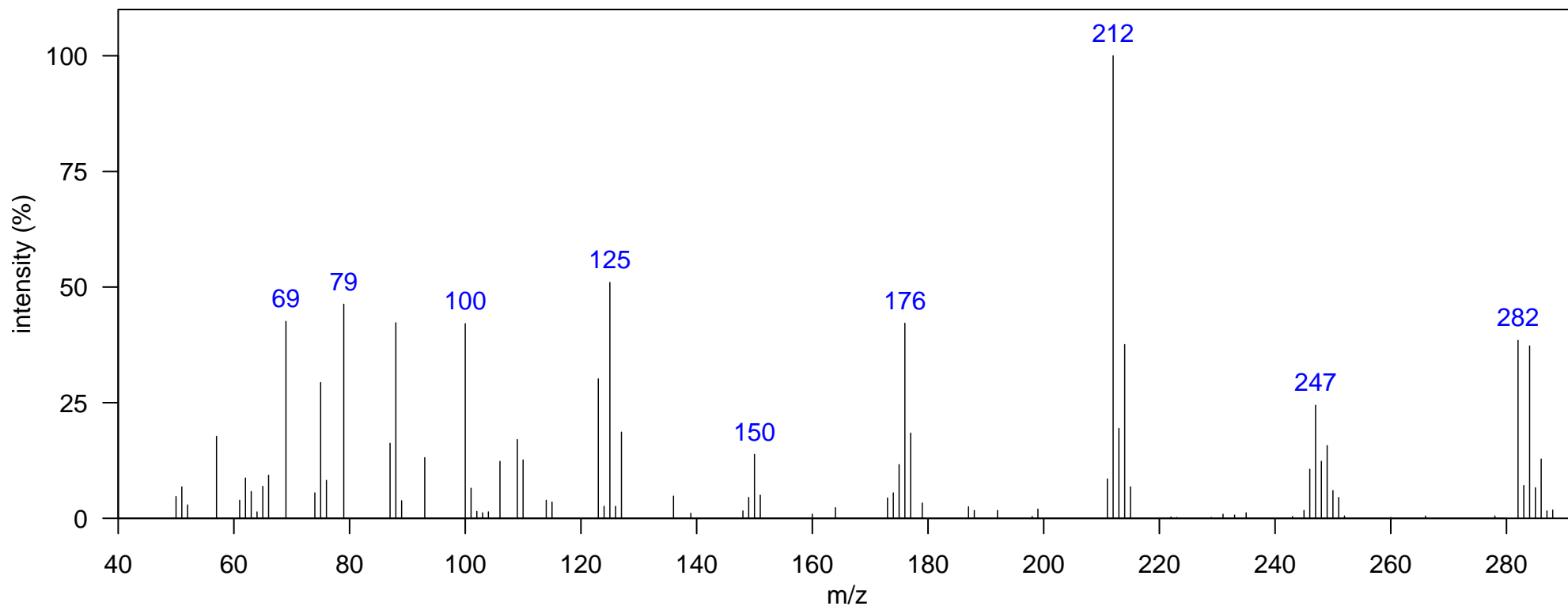
Name: DDMU 2

Class: DDT-related

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1296.1, 1.274  
Quantitative Ion m/z: 212  
Atlantic Lib: DDMU

Elemental Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>  
Source: anthropogenic  
Identification: Authentic MS

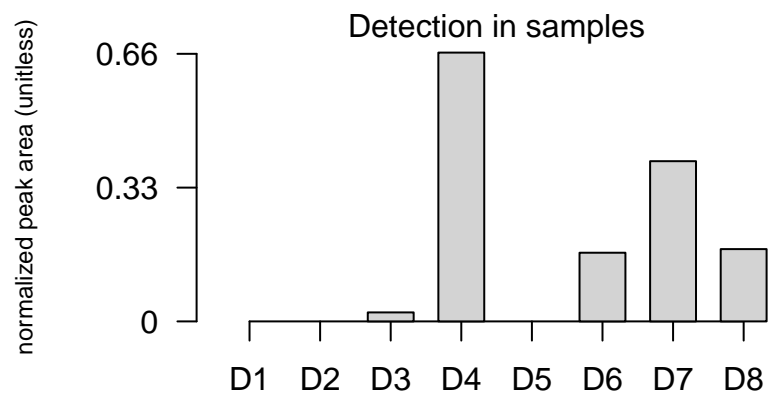


m/z [Fragment]
212 [M-Cl <sub>2</sub> ] <sup>+</sup>
247 [M-Cl] <sup>+</sup>
282 M <sup>+</sup>



Class: DDT-related

Elemental Formula:  
Source: anthropogenic  
Identification: Manual



m/z [Fragment]

Name: DDT related 12

Class: DDT-related

Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1317.09, 1.346

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

Ecotype: coastal

Quantitative Ion m/z: 235

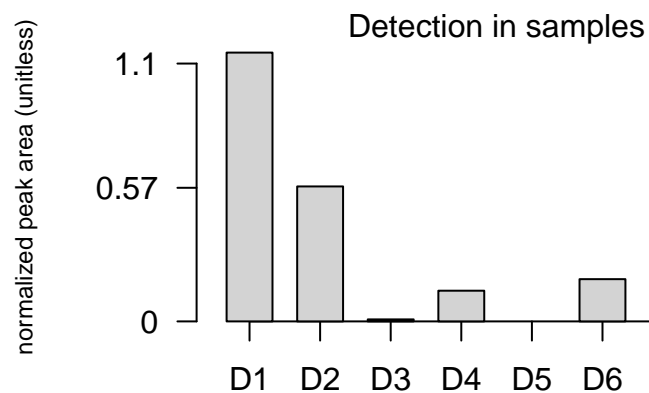
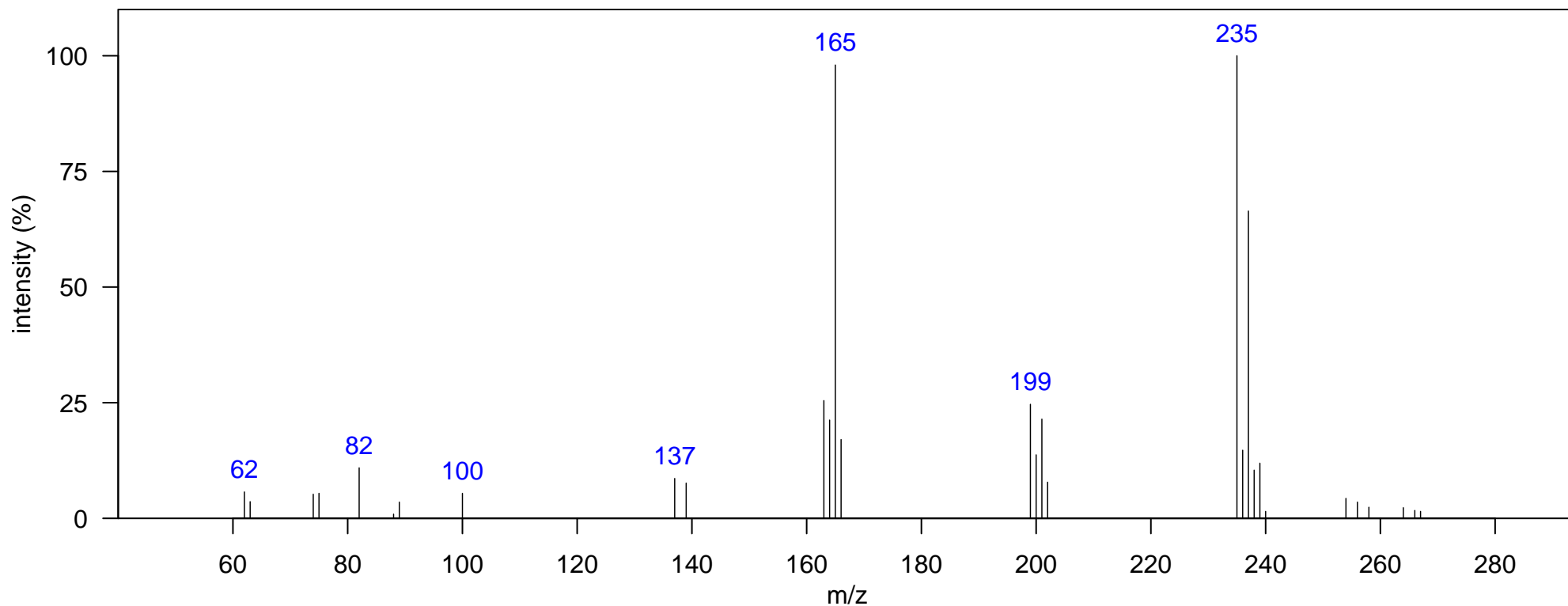
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDM

Identification: Reference Database MS

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



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

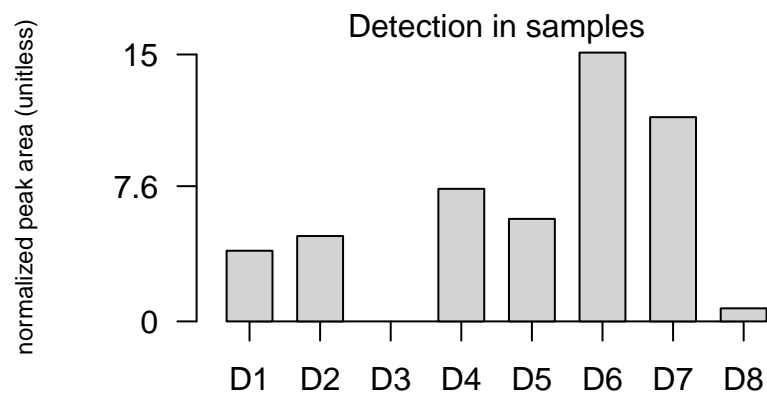
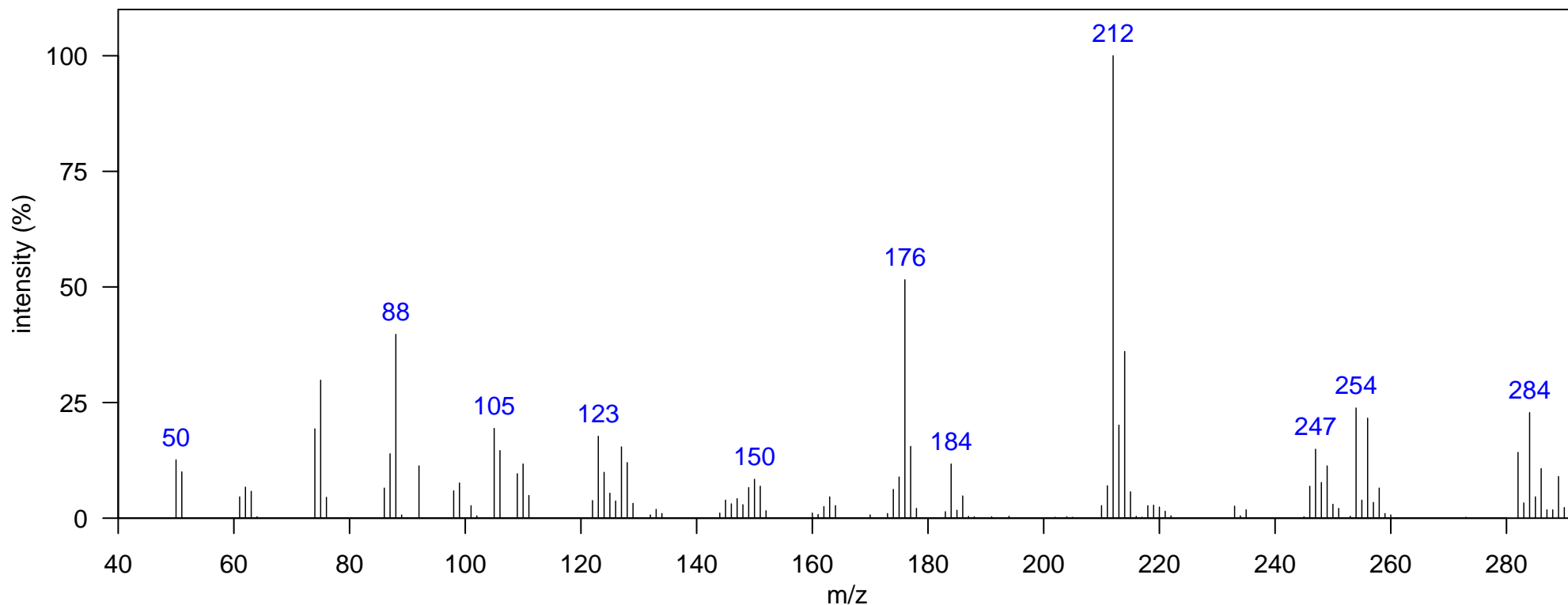
Name: DDMU 3

Class: DDT-related

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1331.08, 1.32  
Quantitative Ion m/z: 212  
Atlantic Lib: DDMU

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

1D RT, 2D RT (s): 1355.57, 1.32

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

Ecotype: coastal

Quantitative Ion m/z: 235

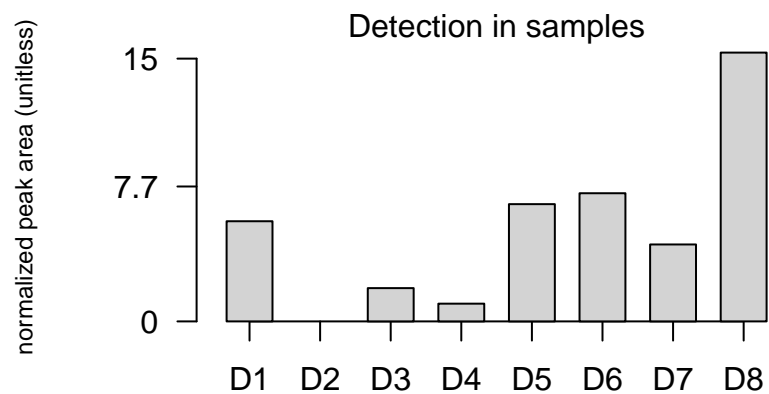
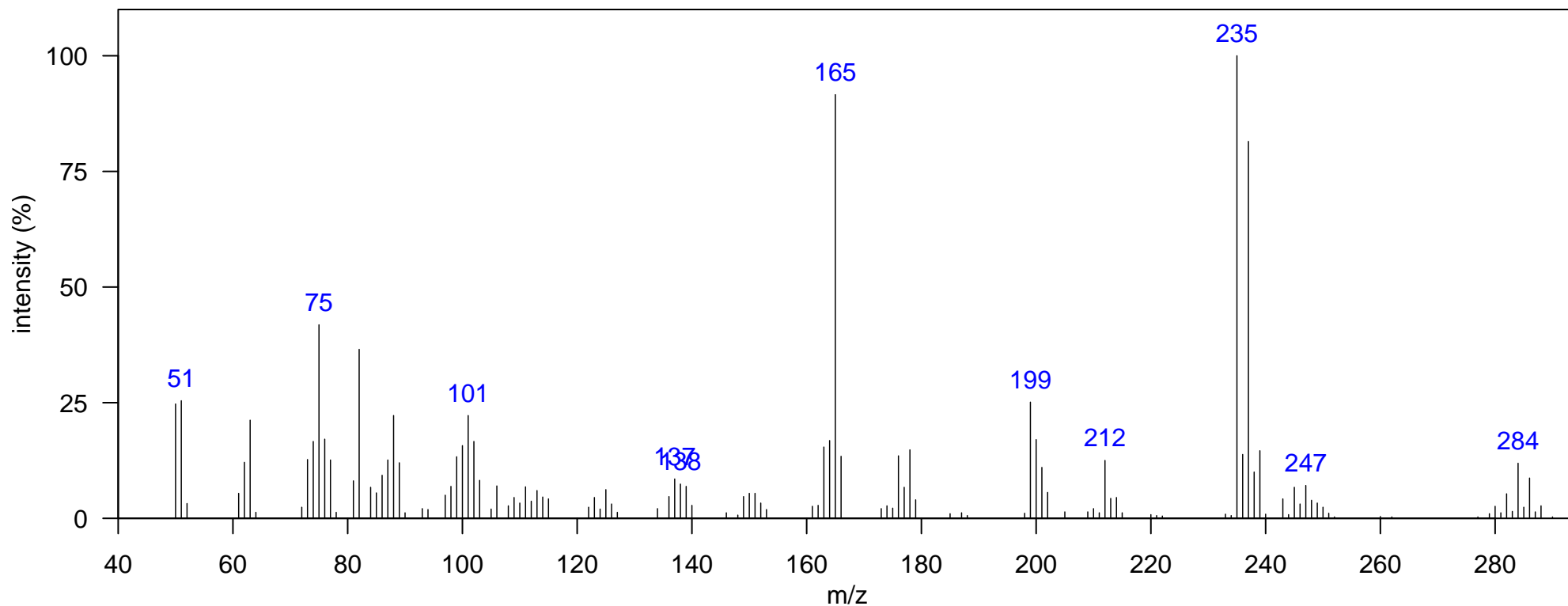
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDM

Identification: Reference Database MS

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



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

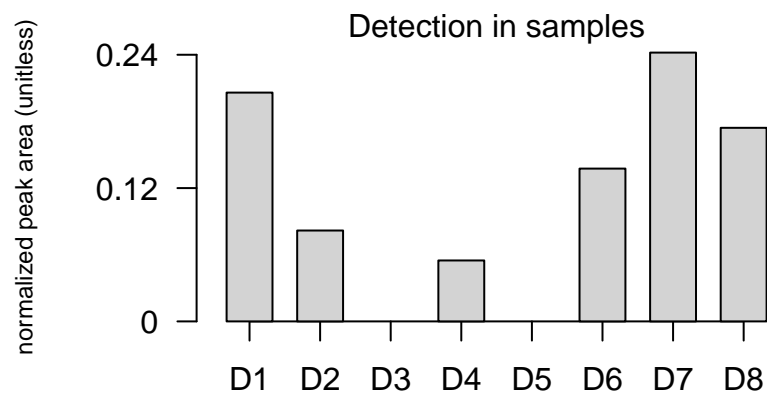
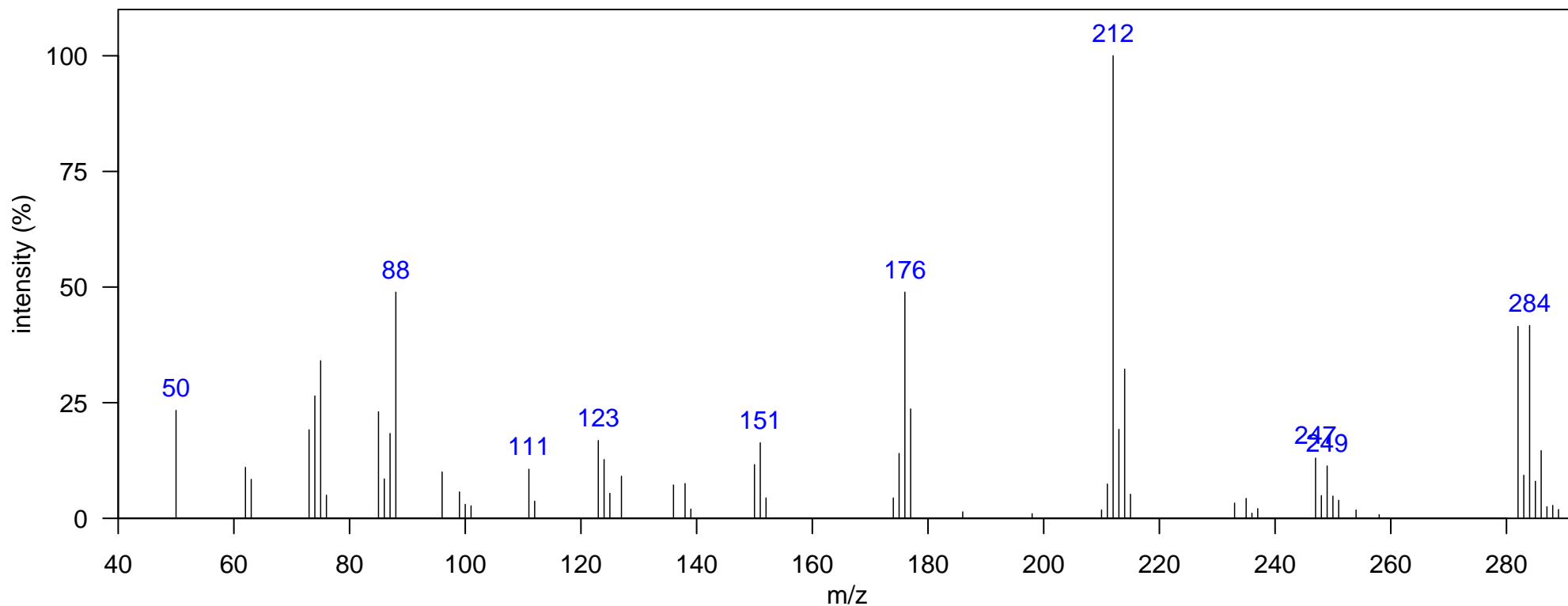
Name: DDMU 4

Class: DDT-related

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

1D RT, 2D RT (s): 1453.51, 1.069  
Quantitative Ion m/z: 212  
Atlantic Lib: DDMU

Elemental Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>3</sub>  
Source: anthropogenic  
Identification: Authentic MS



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

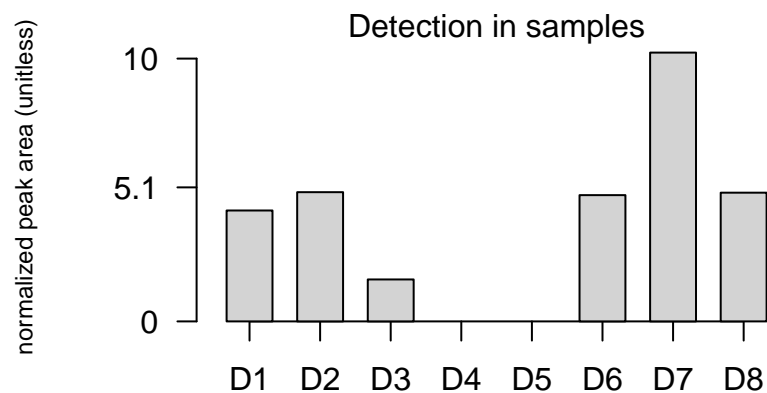
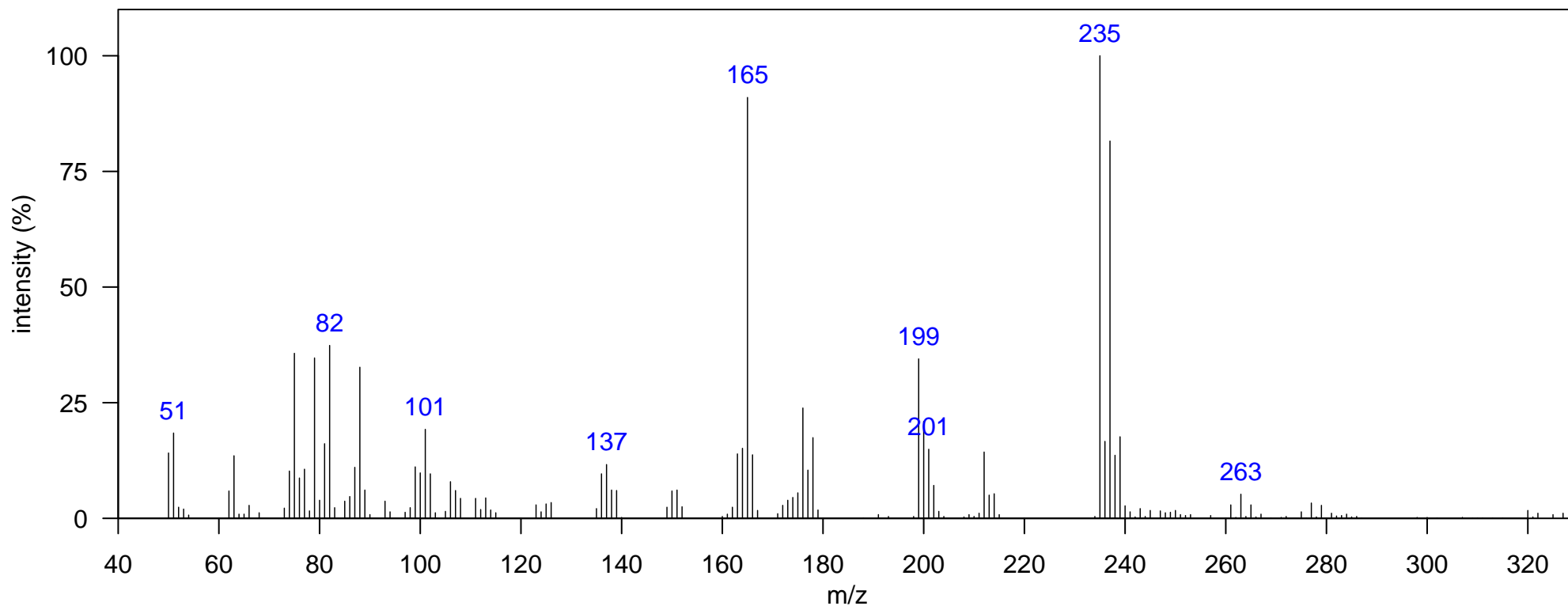
Name: o,p'-DDD

Class: DDT-related

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1376.56, 1.346  
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>

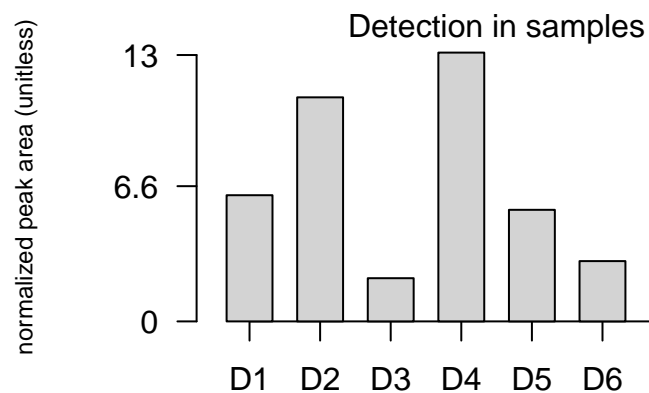
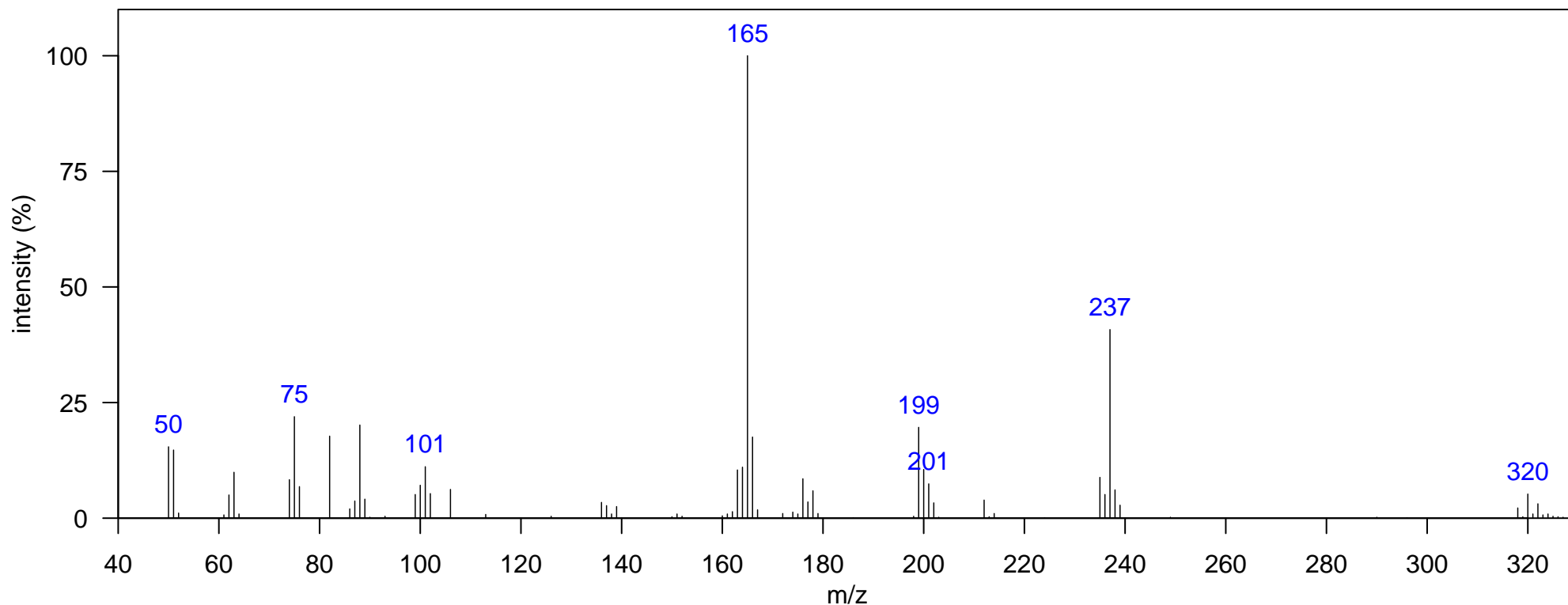
Name: p,p'-DDD

Class: DDT-related

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

1D RT, 2D RT (s): 1411.54, 1.379  
Quantitative Ion m/z: 237  
Atlantic Lib: p,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]
237 [M-CHCl <sub>2</sub> ] <sup>+</sup>
318 M <sup>+</sup>

Name: DDT related 14

Class: DDT-related

Sample: SoCal dolphin blubber D4,

1D RT, 2D RT (s): 1484.99, 1.406

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

Ecotype: offshore

Quantitative Ion m/z: 386

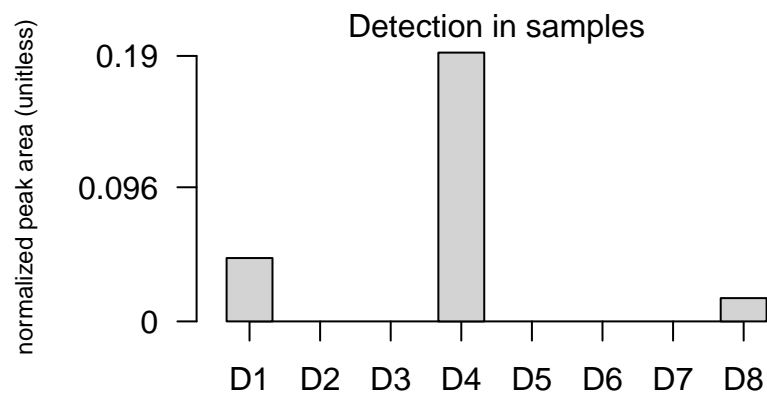
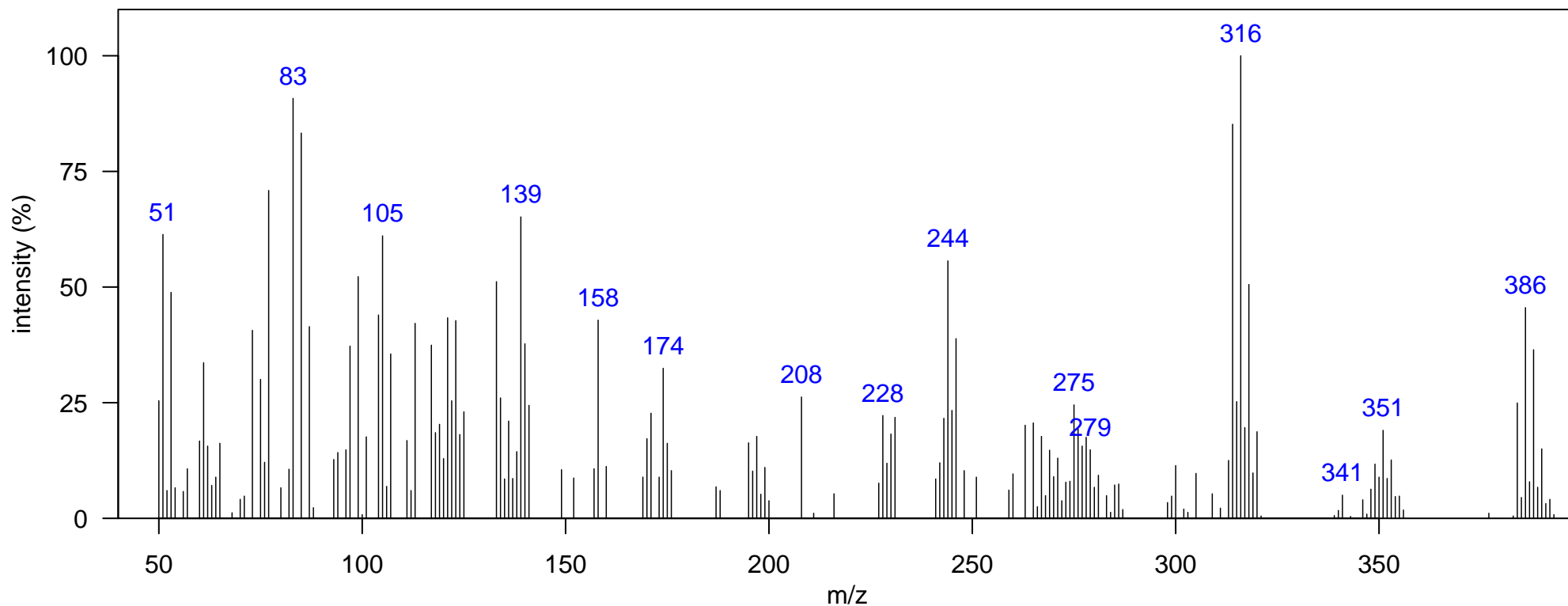
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDT related 1

Identification: Manual-Congener Group

Comment: Suggested DDE backbone structure, but containing 6 chlorines



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



Name: DDT related 15

Class: DDT-related

Sample: SoCal dolphin blubber D5,

1D RT, 2D RT (s): 1488.49, 1.399

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

Ecotype: coastal

Quantitative Ion m/z: 386

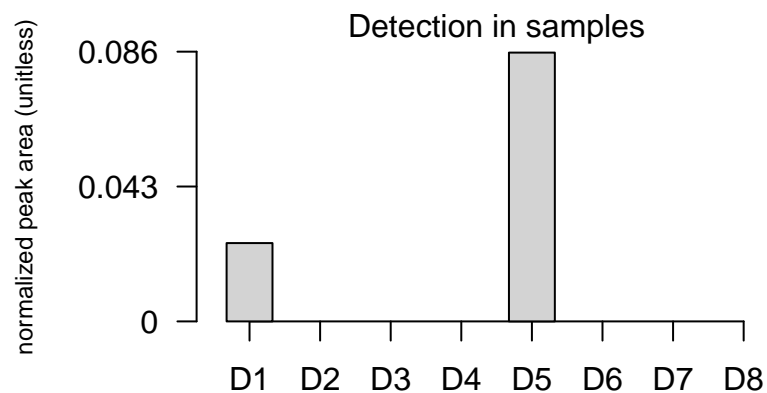
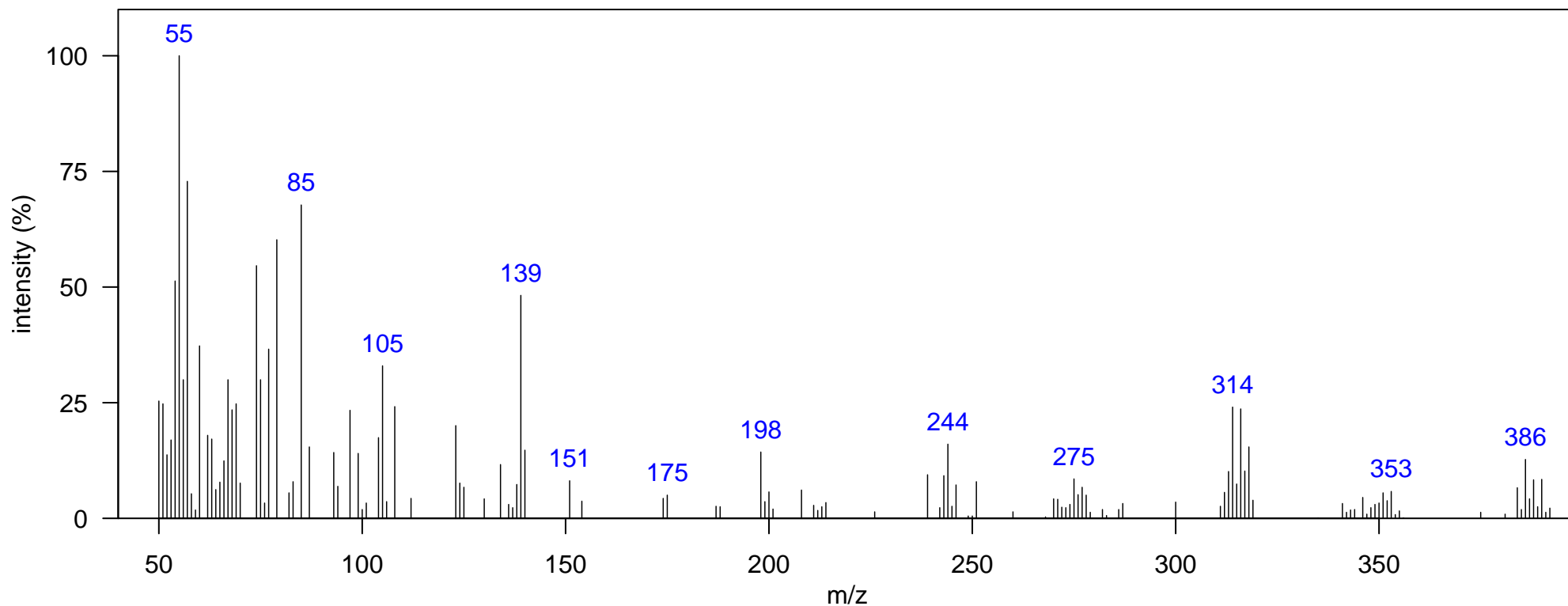
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Manual-Congener Group

Comment: Suggested DDE backbone structure, but containing 6 chlorines



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

Name: DDT related 16

Class: DDT-related

Sample: SoCal dolphin blubber D7,

1D RT, 2D RT (s): 1481.5, 1.399

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

Ecotype: offshore

Quantitative Ion m/z: 386

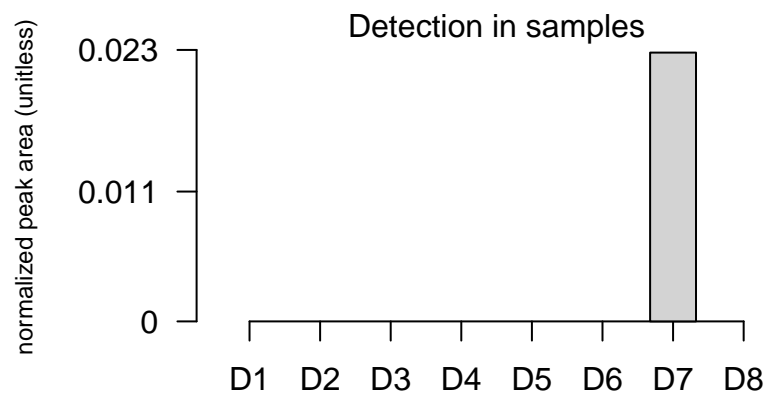
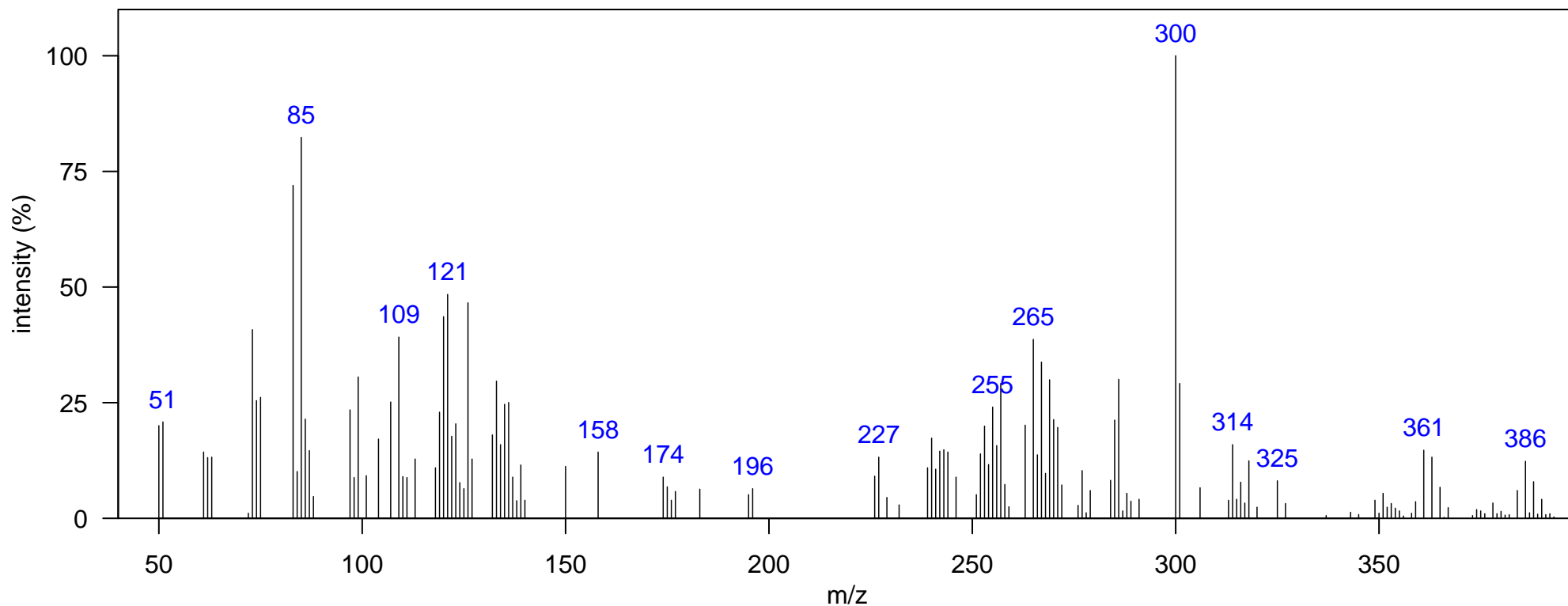
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Manual-Congener Group

Comment: Suggested DDE backbone structure, but containing 6 chlorines



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

Name: DDT related 17

Class: DDT-related

Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1523.47, 1.393

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

Ecotype: coastal

Quantitative Ion m/z: 386

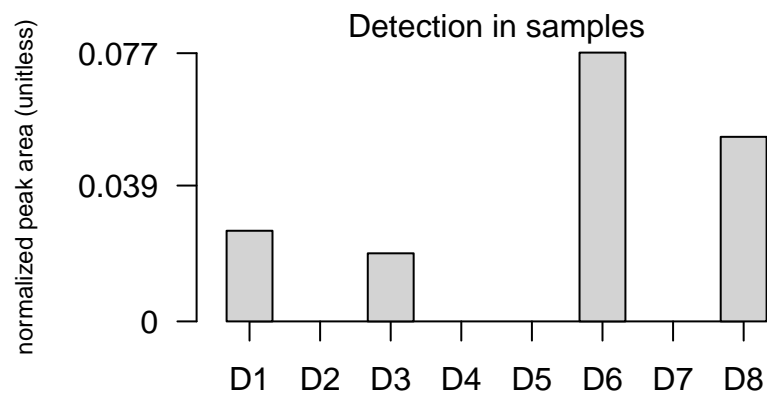
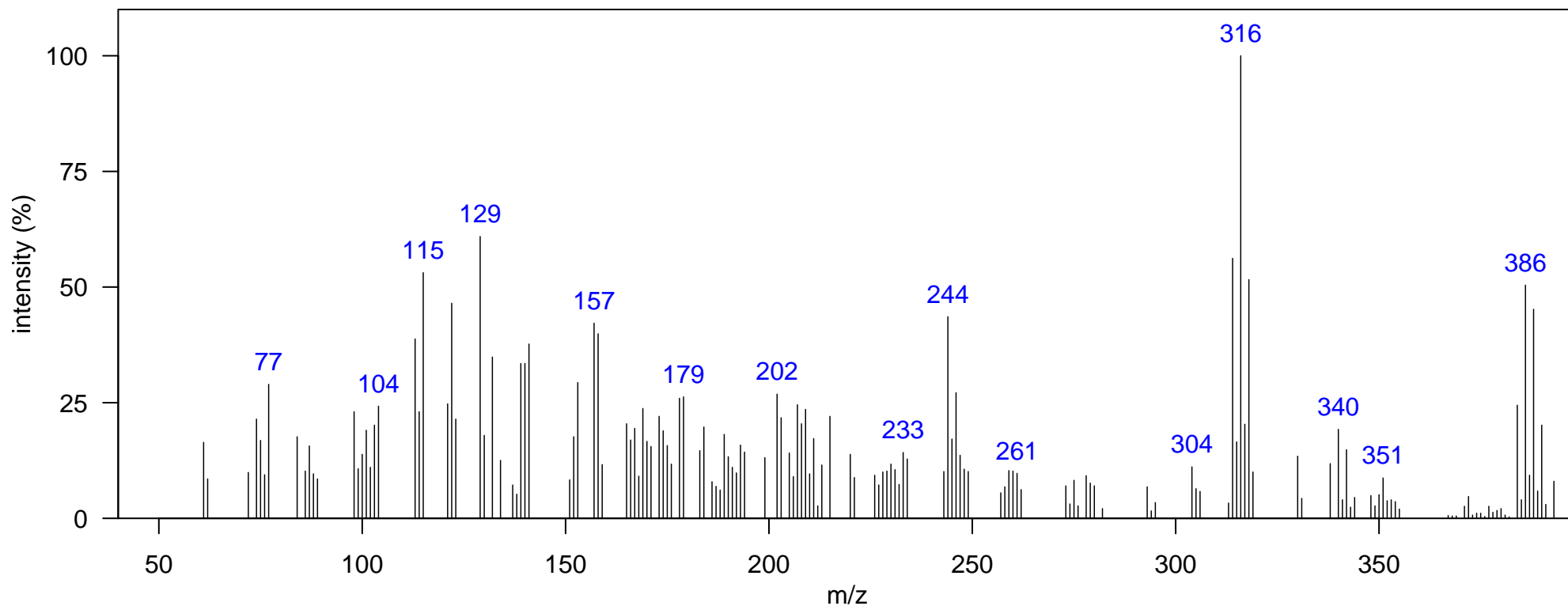
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDT related 1

Identification: Manual-Congener Group

Comment: Suggested DDE backbone structure, but containing 6 chlorines



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

Name: DDT related 18

Class: DDT-related

Sample: SoCal dolphin blubber D2,

1D RT, 2D RT (s): 1551.46, 1.485

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

Ecotype: offshore

Quantitative Ion m/z: 420

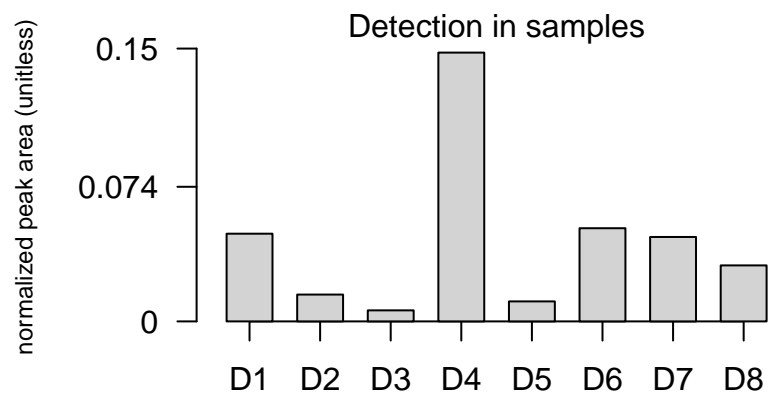
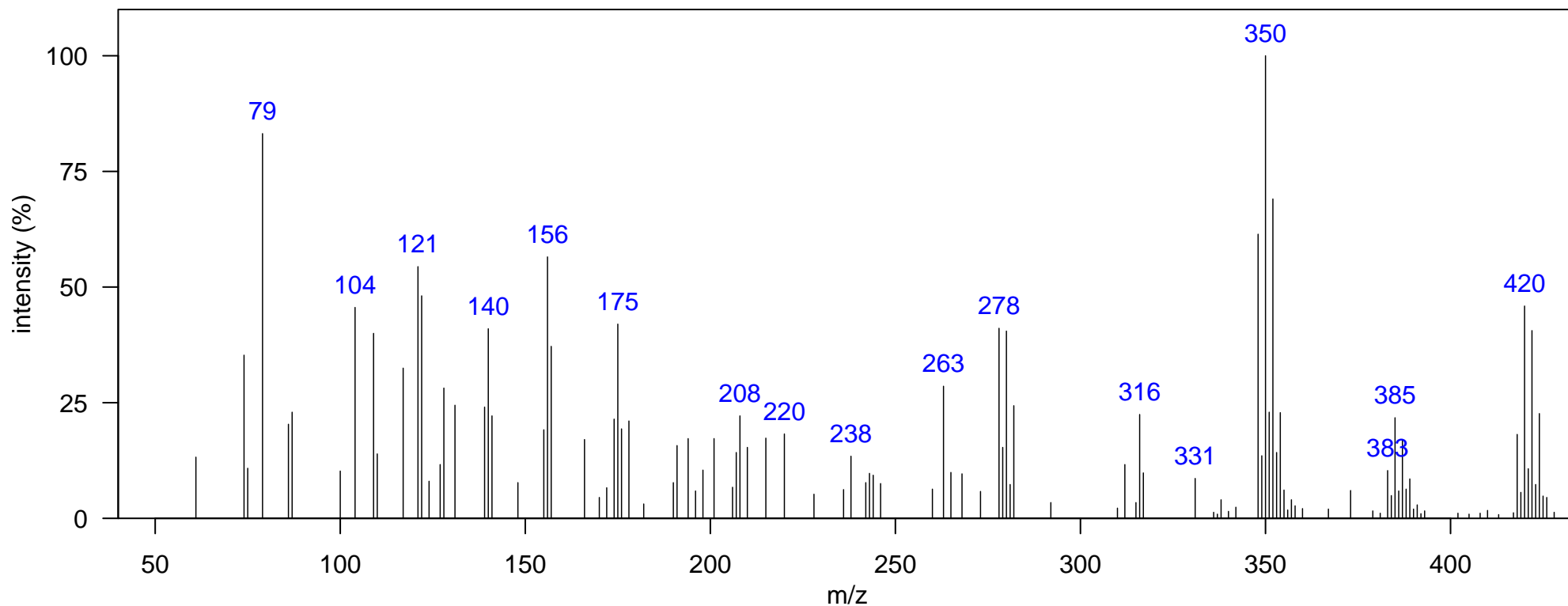
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDT related 2&3

Identification: Manual-Congener Group

Comment: Suggested DDE backbone structure, but containing 7 chlorines



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,

1D RT, 2D RT (s): 1558.45, 1.525

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

Ecotype: coastal

Quantitative Ion m/z: 420

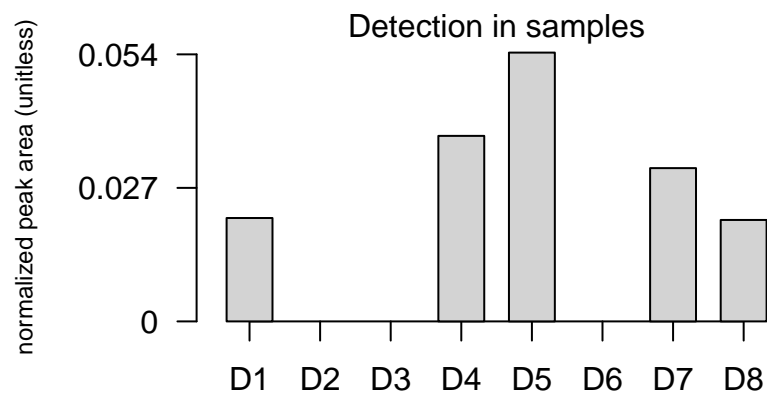
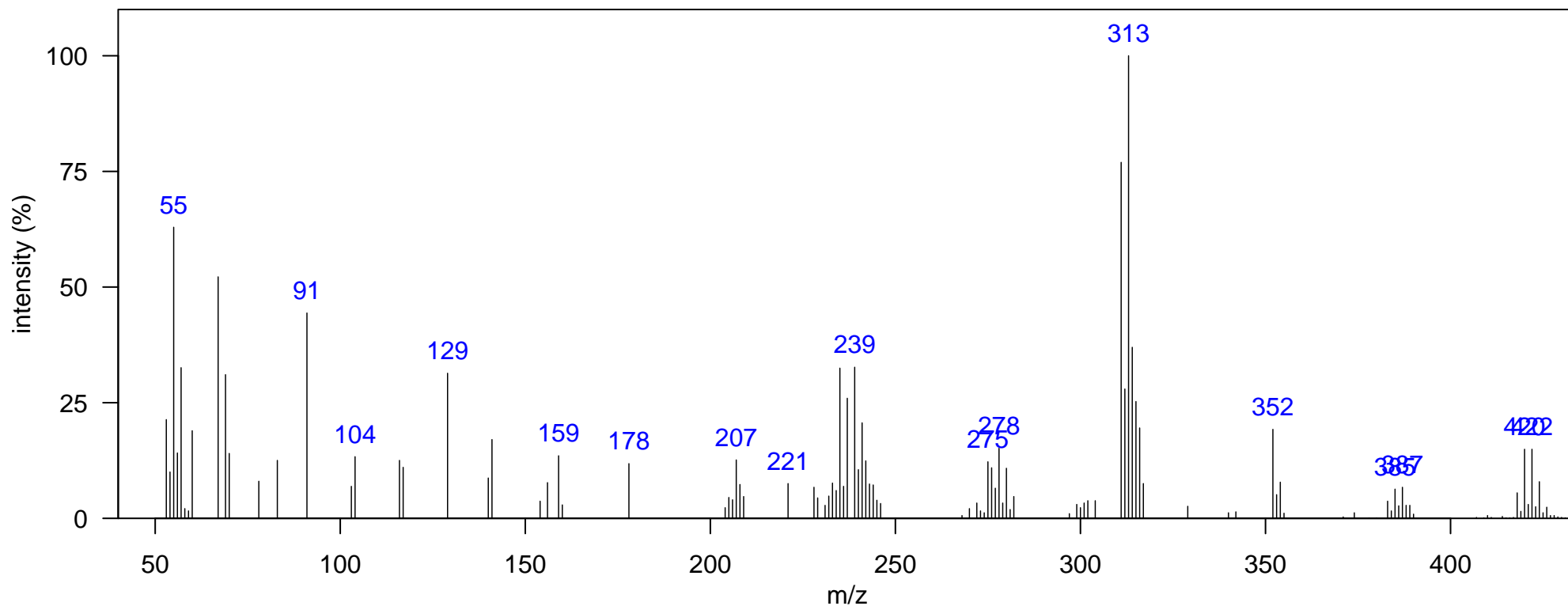
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDT related 2&3

Identification: Manual-Congener Group

Comment: Suggested DDE backbone structure, but containing 7 chlorines



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,

1D RT, 2D RT (s): 1582.94, 1.571

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

Ecotype: coastal

Quantitative Ion m/z: 350

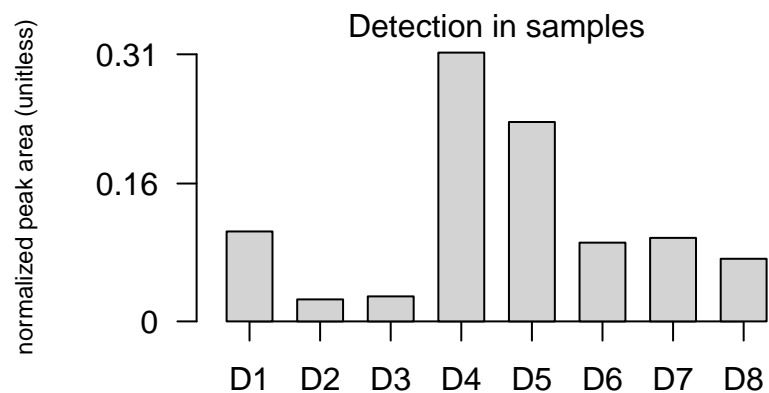
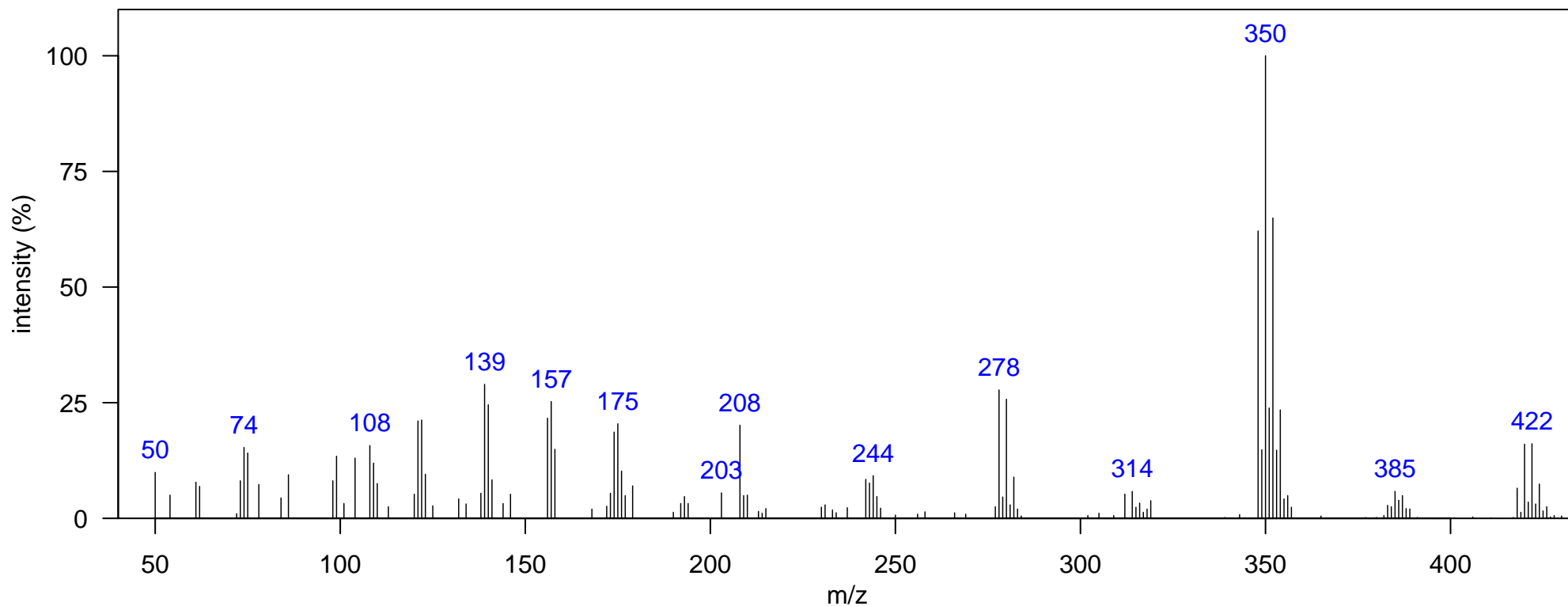
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: DDT related 2&3

Identification: Manual-Congener Group

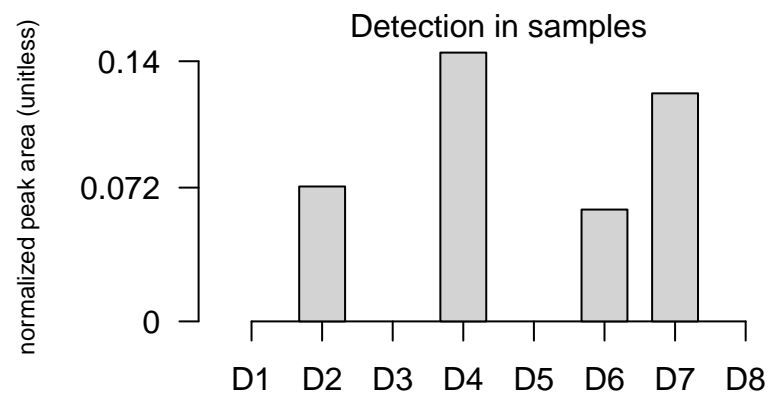
Comment: Suggested DDE backbone structure, but containing 7 chlorines



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:  
Source: anthropogenic  
Identification: Manual



m/z [Fragment]

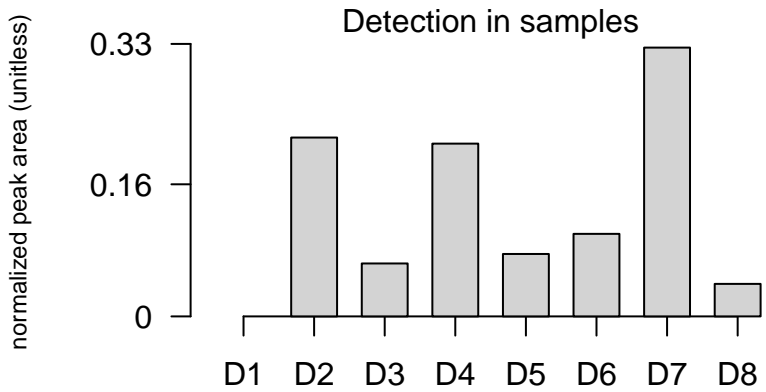
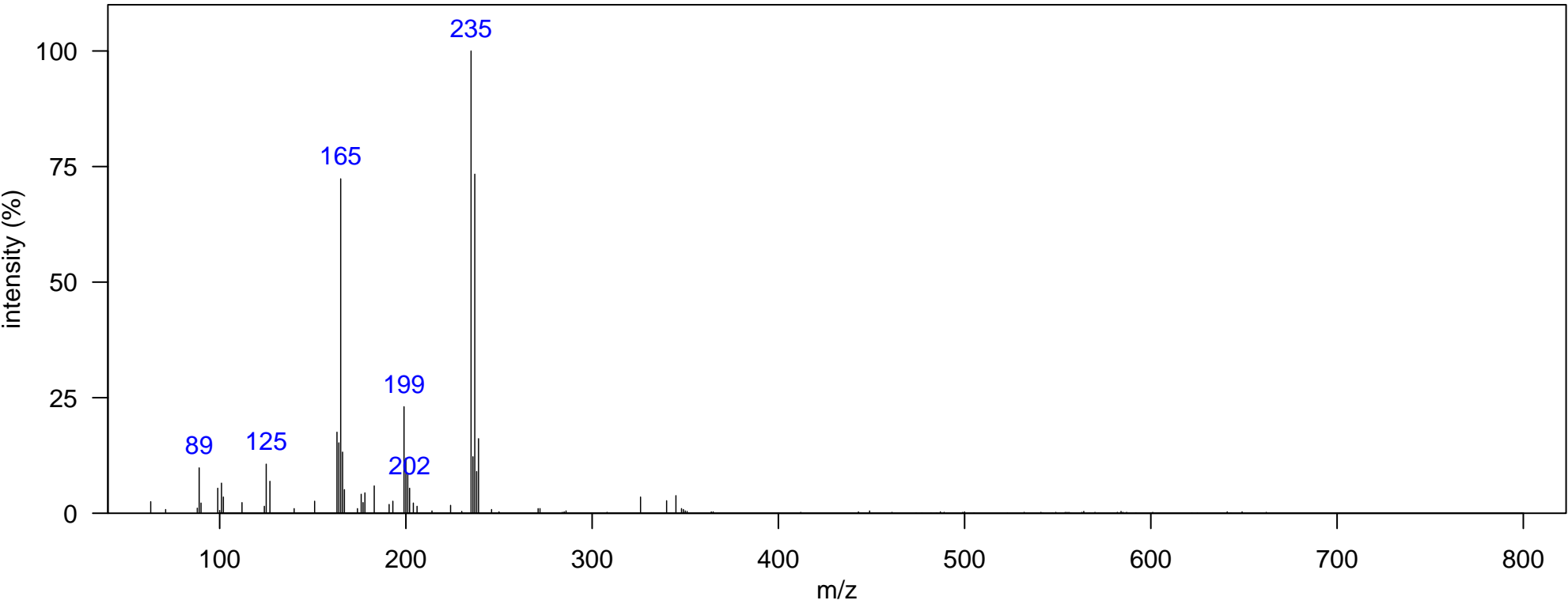
Name: DDT related 22

Class: DDT-related

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1652.9, 1.934  
Quantitative Ion m/z: 235  
Atlantic Lib:

Elemental Formula:  
Source: anthropogenic  
Identification: Manual



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



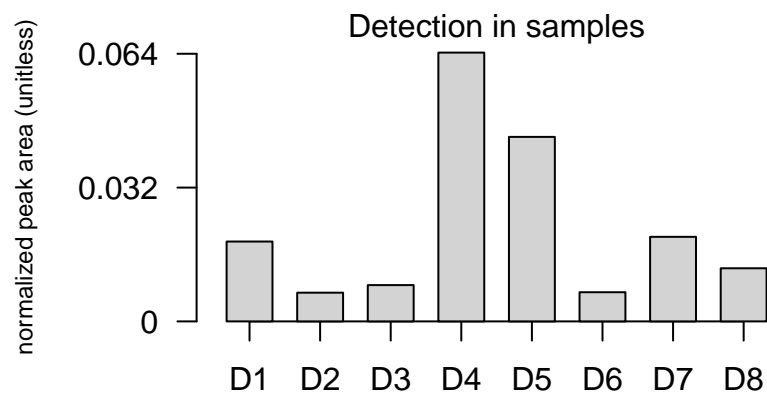
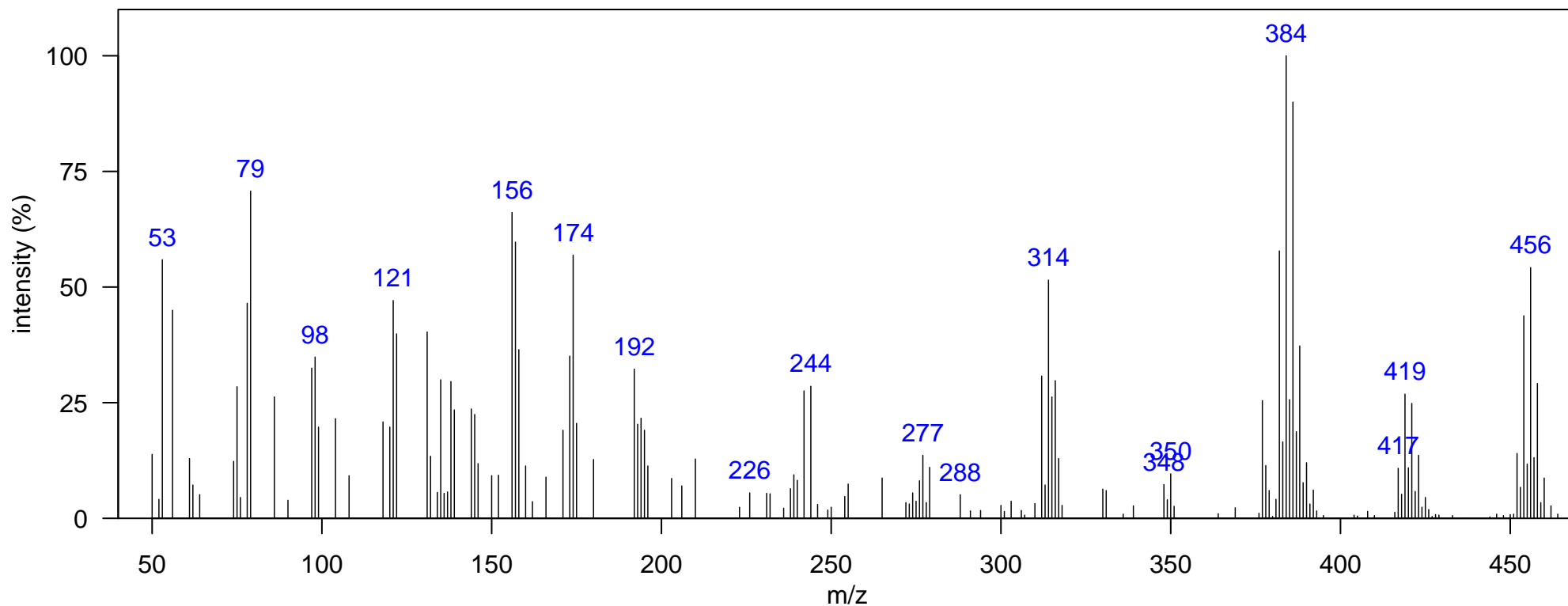
Name: DDT related 23

Class: DDT-related

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

1D RT, 2D RT (s): 1659.89, 1.861  
Quantitative Ion m/z: 456  
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>4</sub>Cl<sub>8</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>

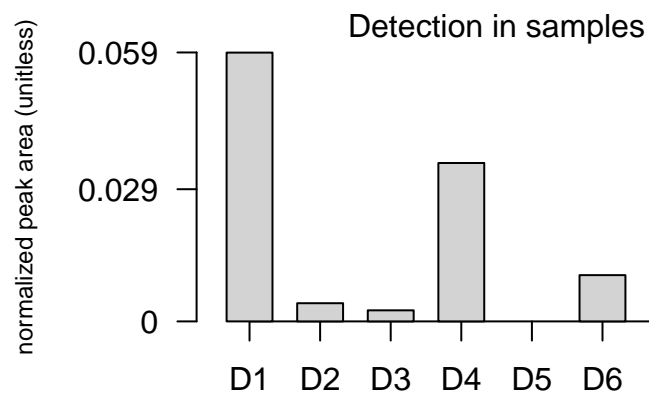
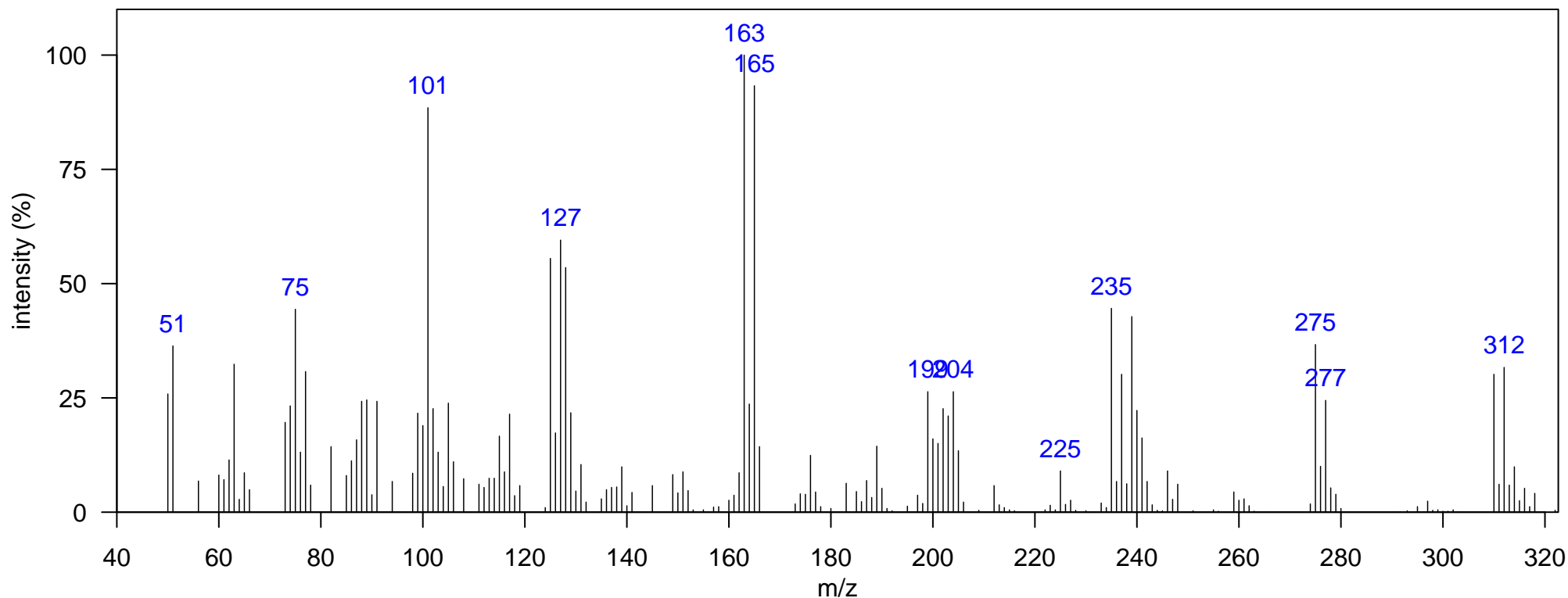
Name: TCPM 2CI

Class: TCPM

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

1D RT, 2D RT (s): 1547.96, 1.089  
Quantitative Ion m/z: 275  
Atlantic Lib: TCPM isomer 1 and isomer 2

Elemental Formula: C<sub>19</sub>H<sub>14</sub>Cl<sub>2</sub>  
Source: anthropogenic  
Identification: Manual-Congener Group



m/z [Fragment]

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

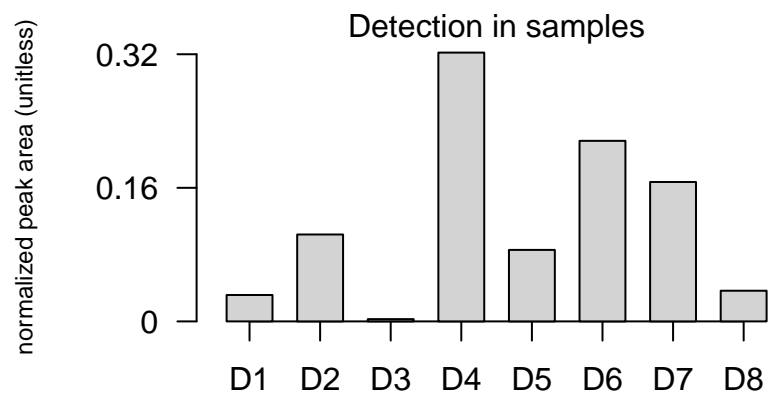
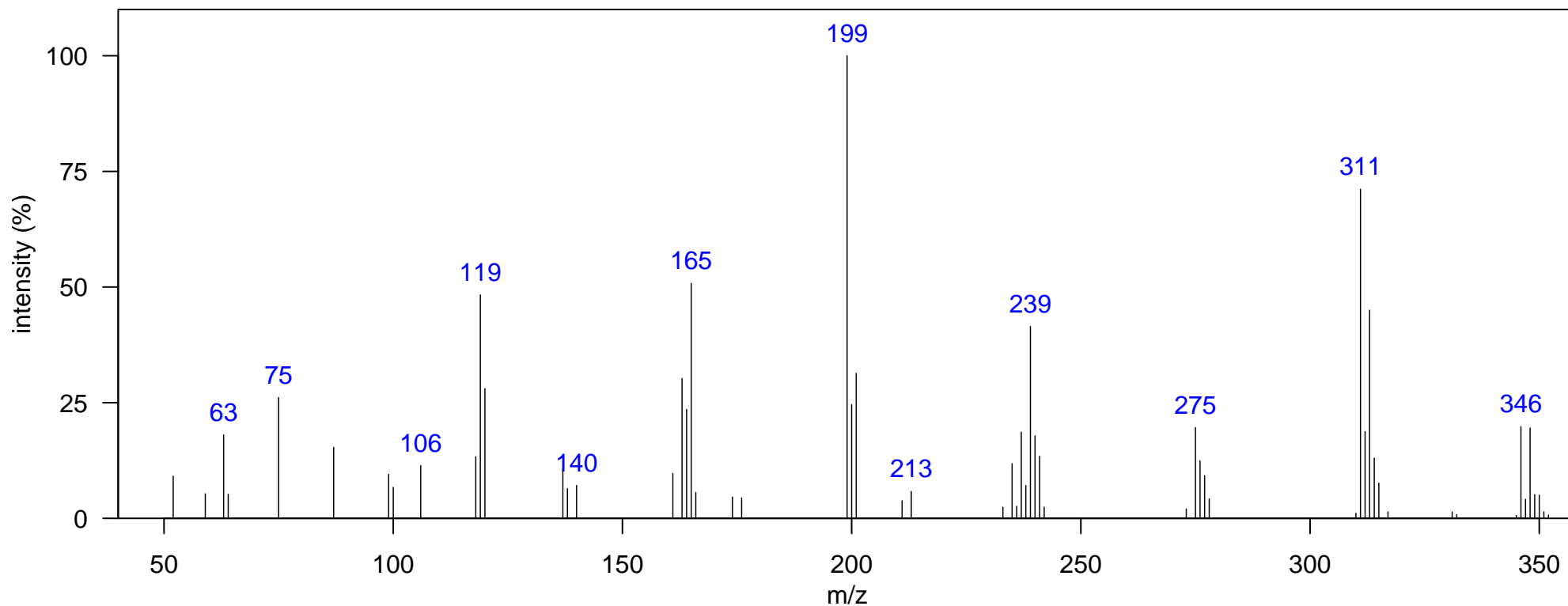
Name: TCPM 1

Class: TCPM

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

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

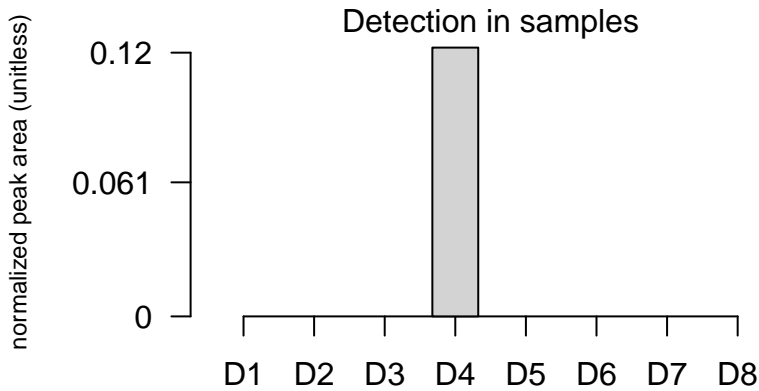
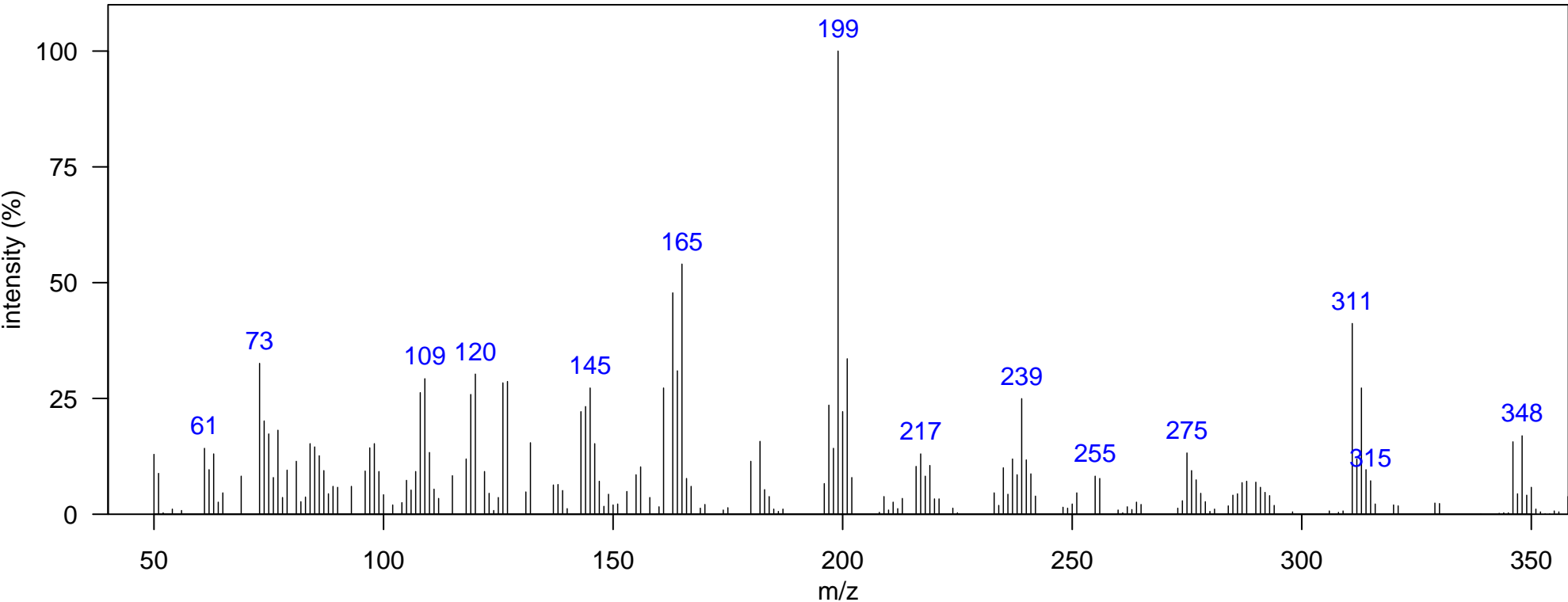
Name: TCPM 2

Class: TCPM

Sample: SoCal dolphin blubber D4,  
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]+
346 M+

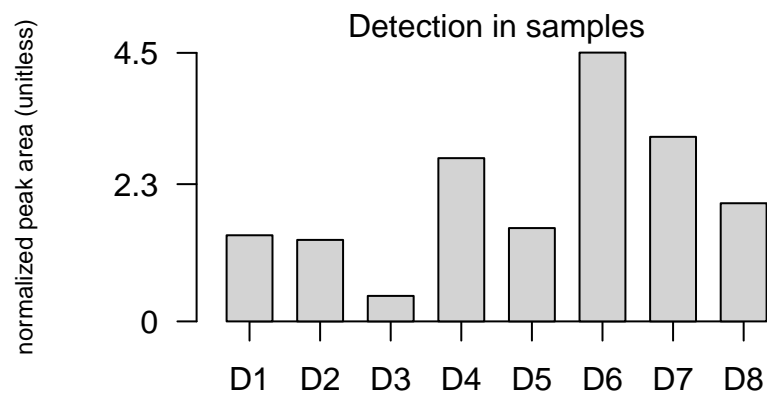
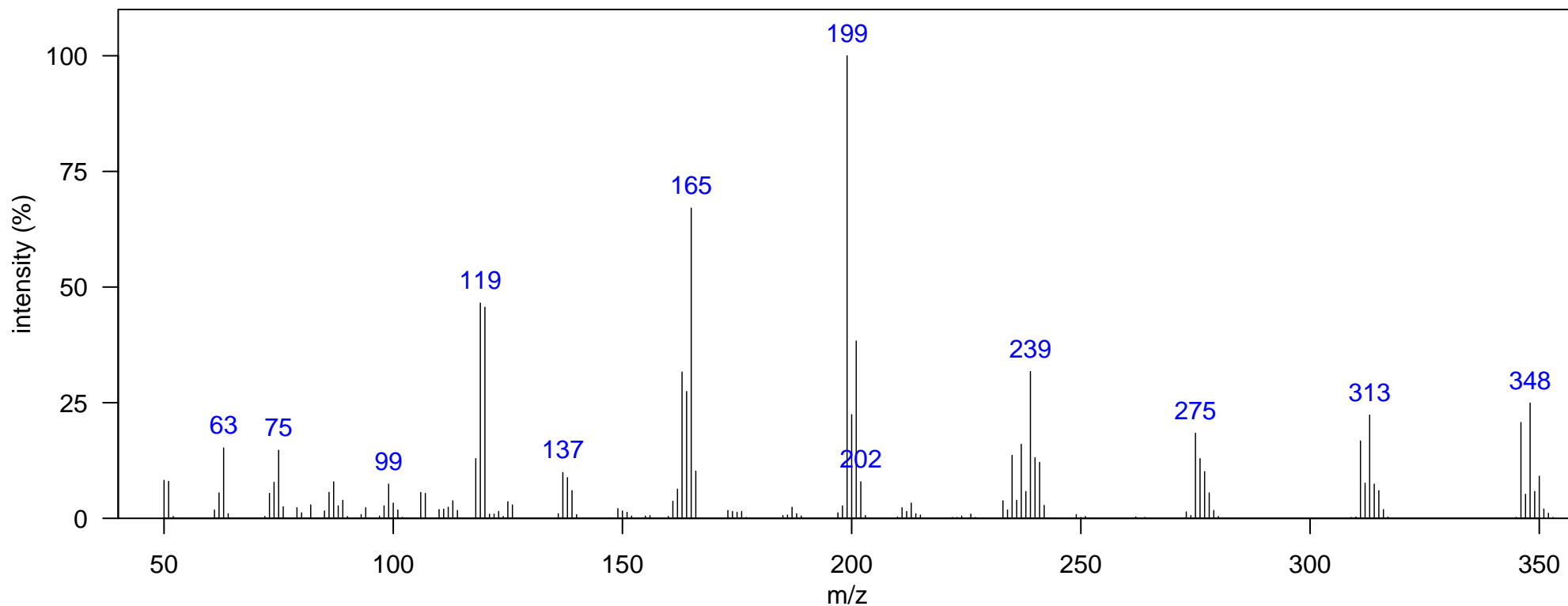
Name: TCPM 3

Class: TCPM

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

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

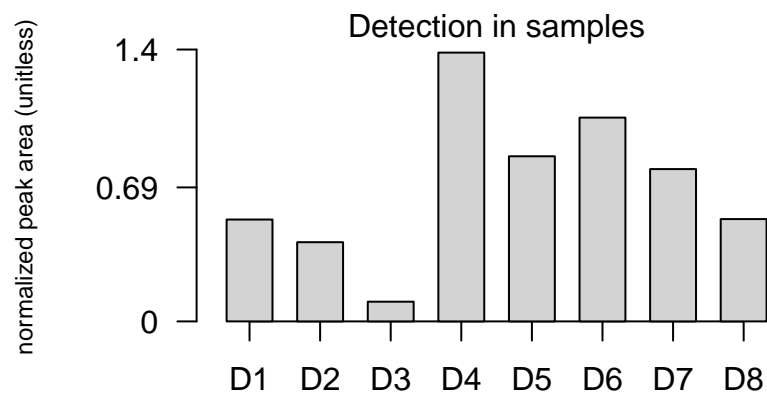
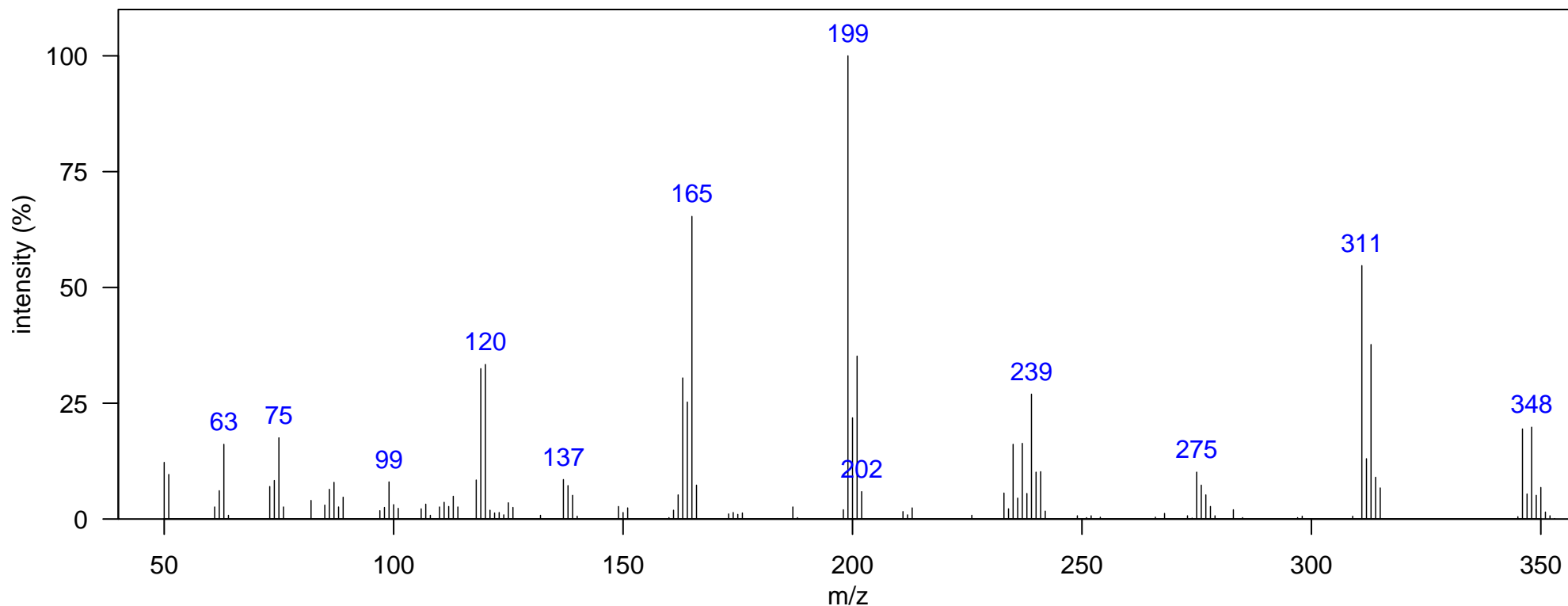
Name: TCPM 4

Class: TCPM

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

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



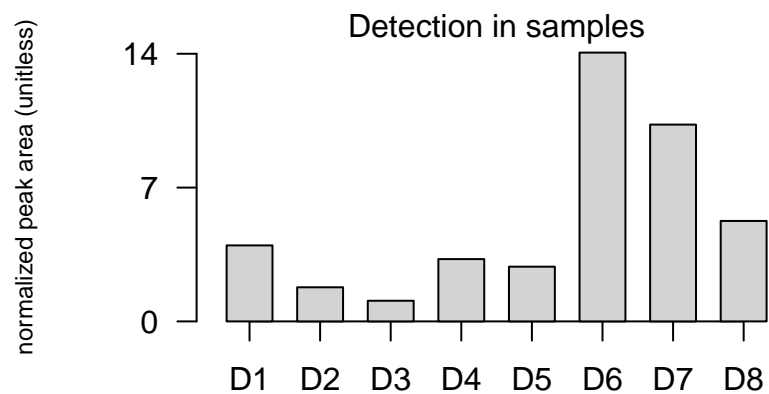
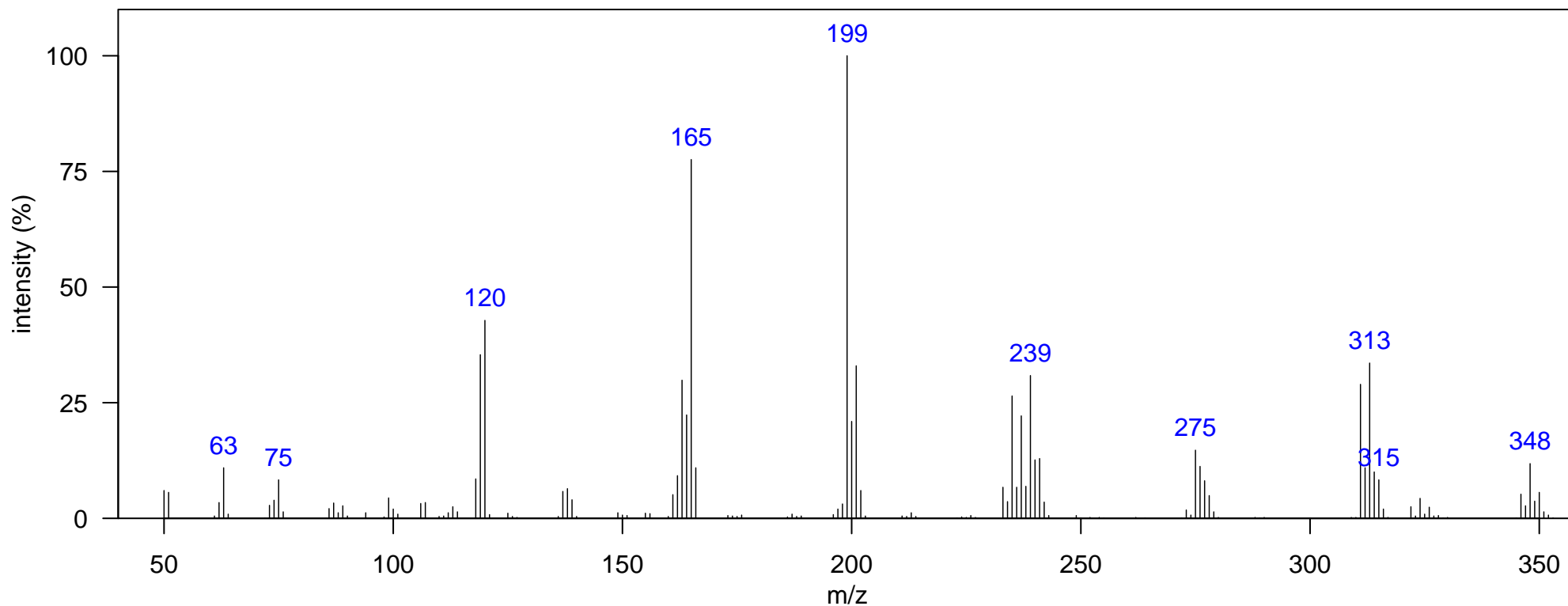
m/z [Fragment]

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

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

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

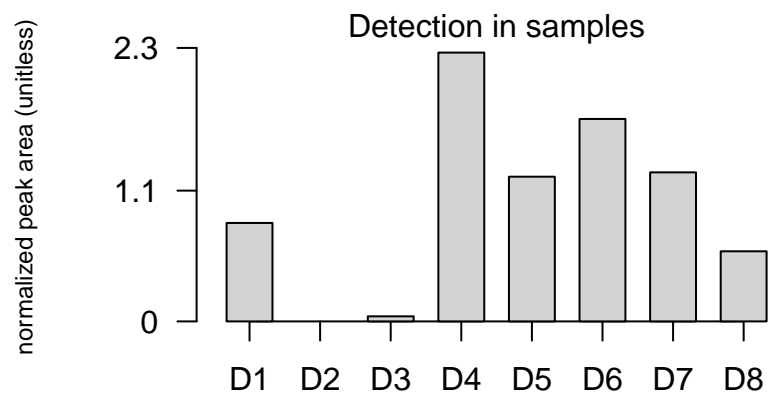
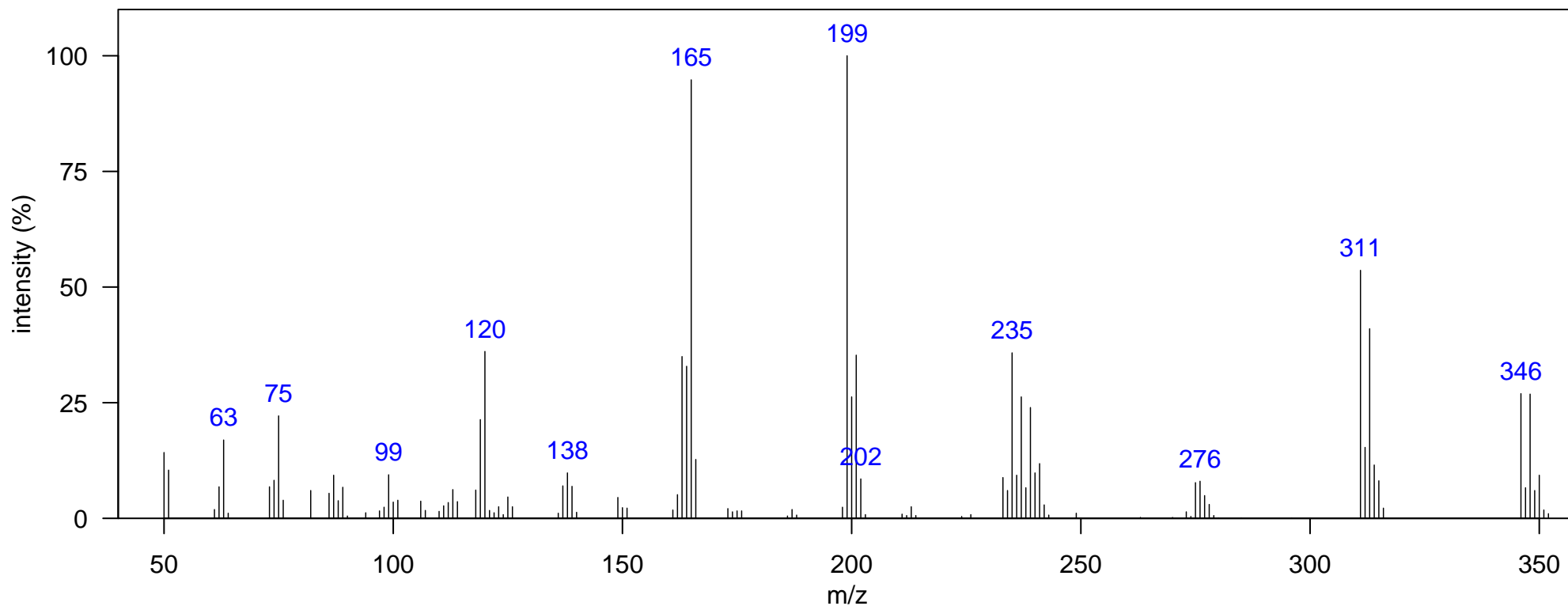
Name: TCPM 6

Class: TCPM

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

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



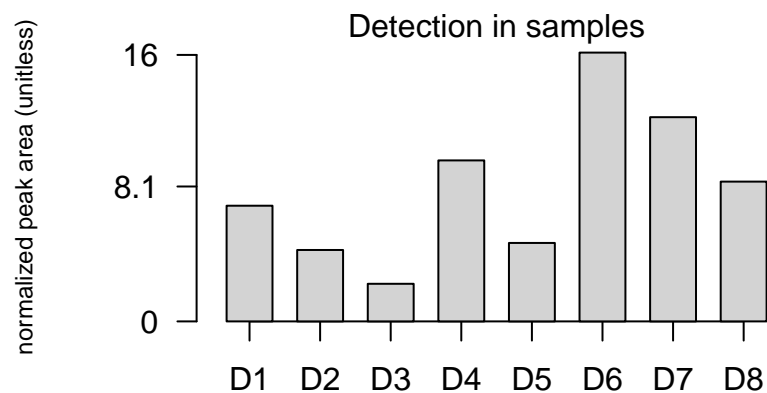
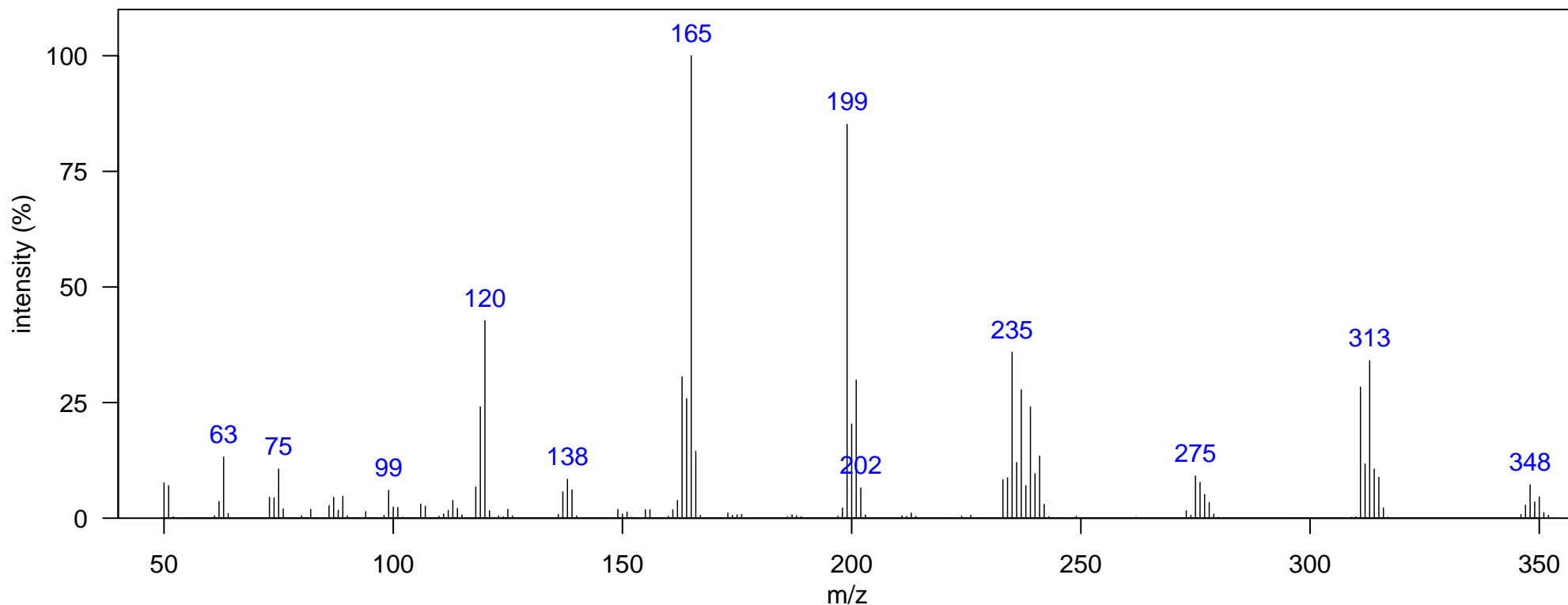
Name: Tris(4-chlorophenyl)methane (TCPM)

Class: TCPM

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

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

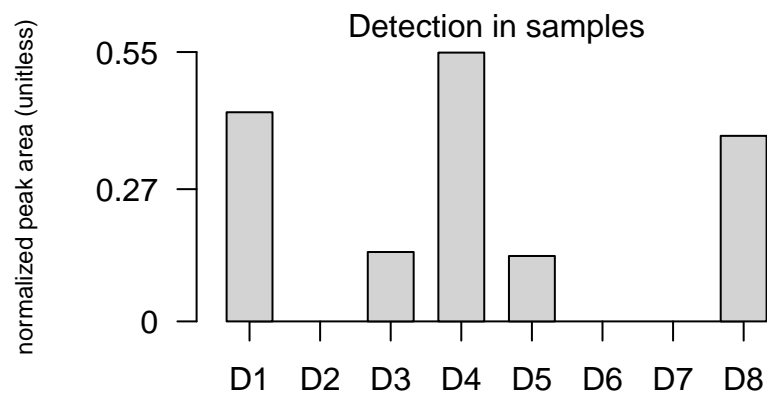
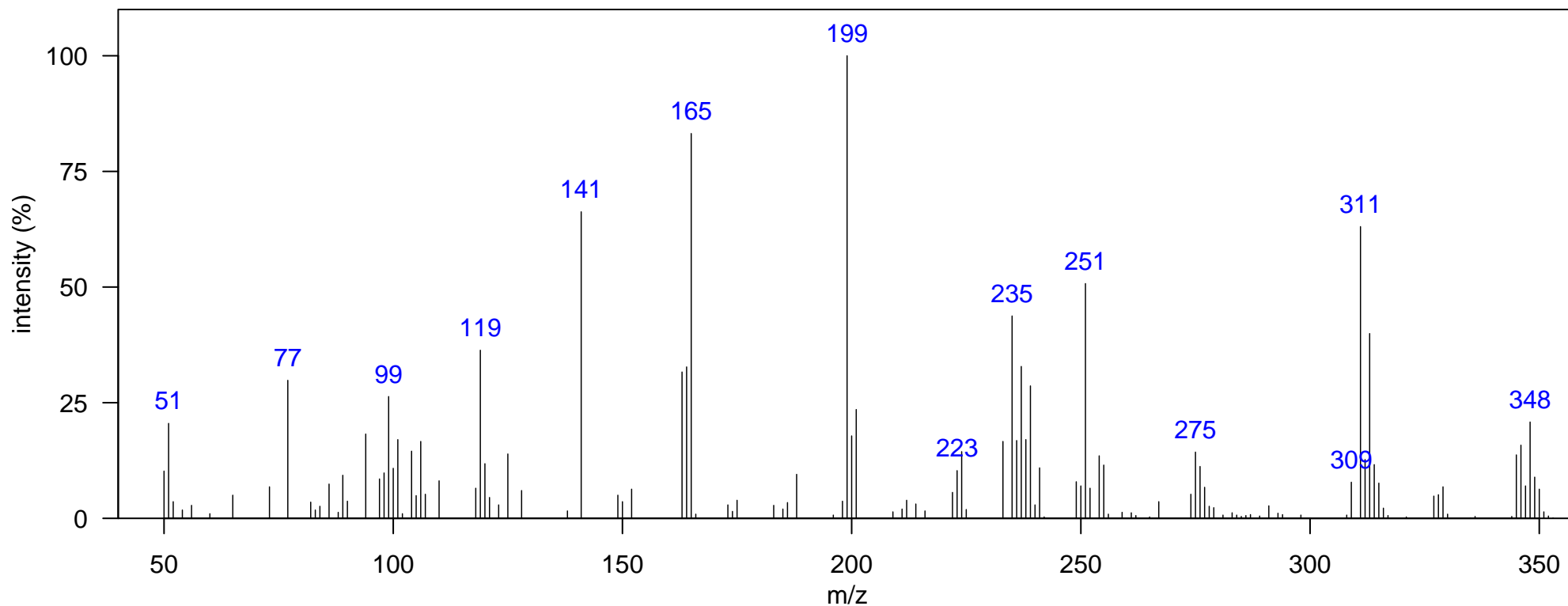


m/z [Fragment]
275 [M-HCl2] <sup>+</sup>
311 [M-Cl] <sup>+</sup>
346 M <sup>+</sup>

Sample: SoCal dolphin blubber D8,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1673.89, 2.112  
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>

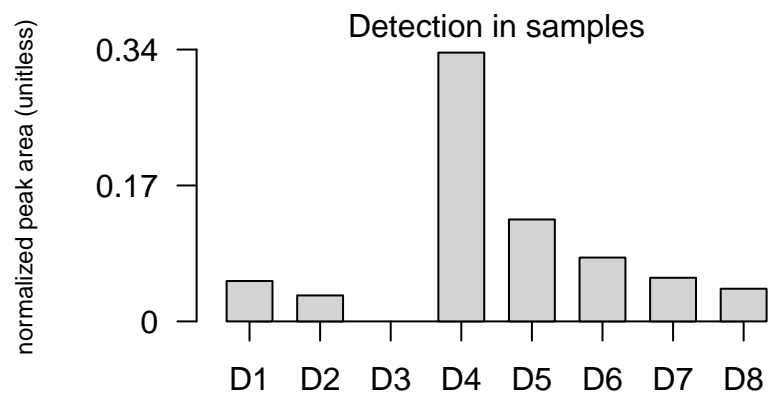
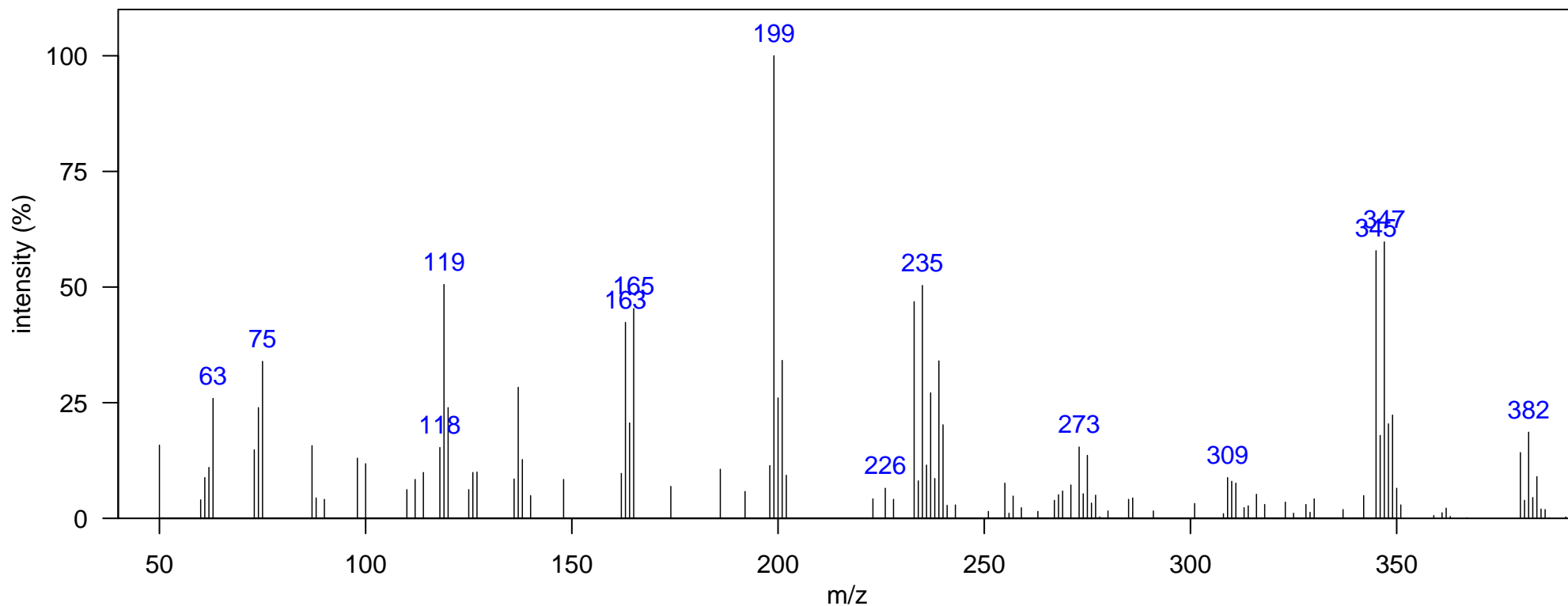
Name: TCPM 4Cl 1

Class: TCPM

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

1D RT, 2D RT (s): 1624.91, 1.789  
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

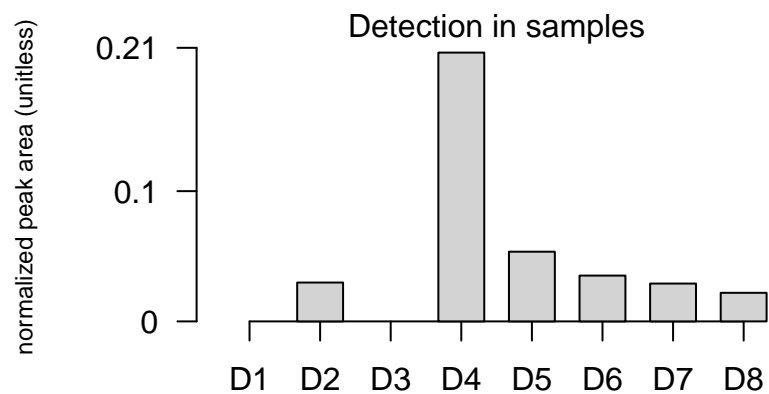
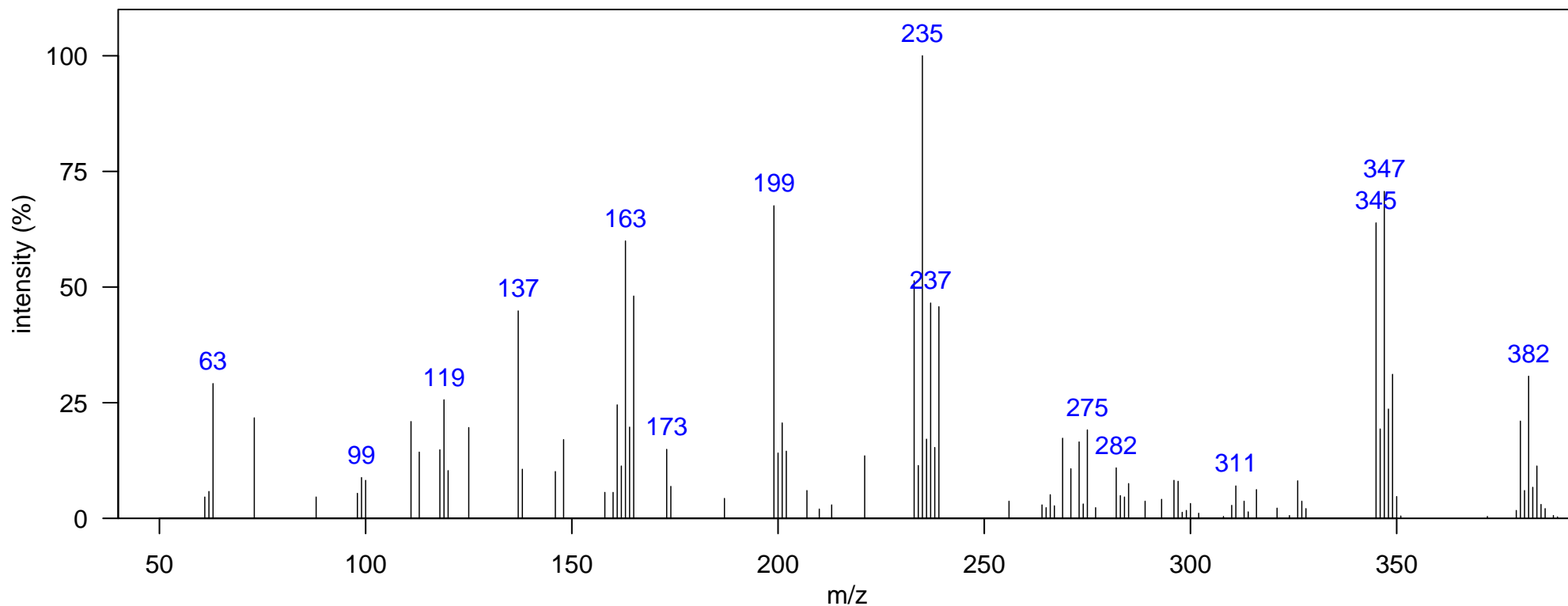


m/z [Fragment]
309 [M-HCl2]+
345 [M-Cl]+
380 M+

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

1D RT, 2D RT (s): 1652.9, 1.987  
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

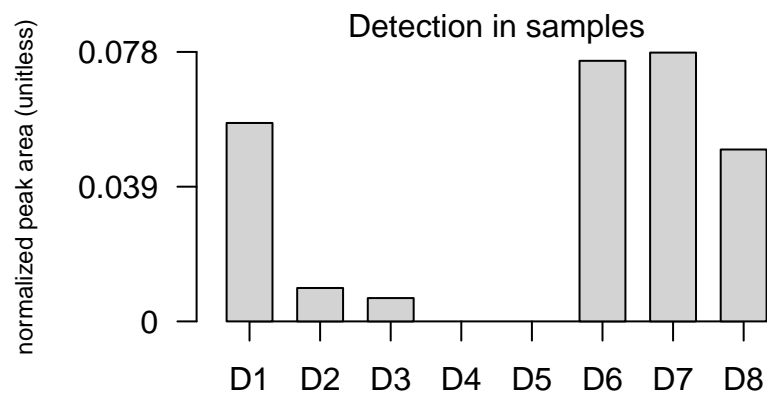
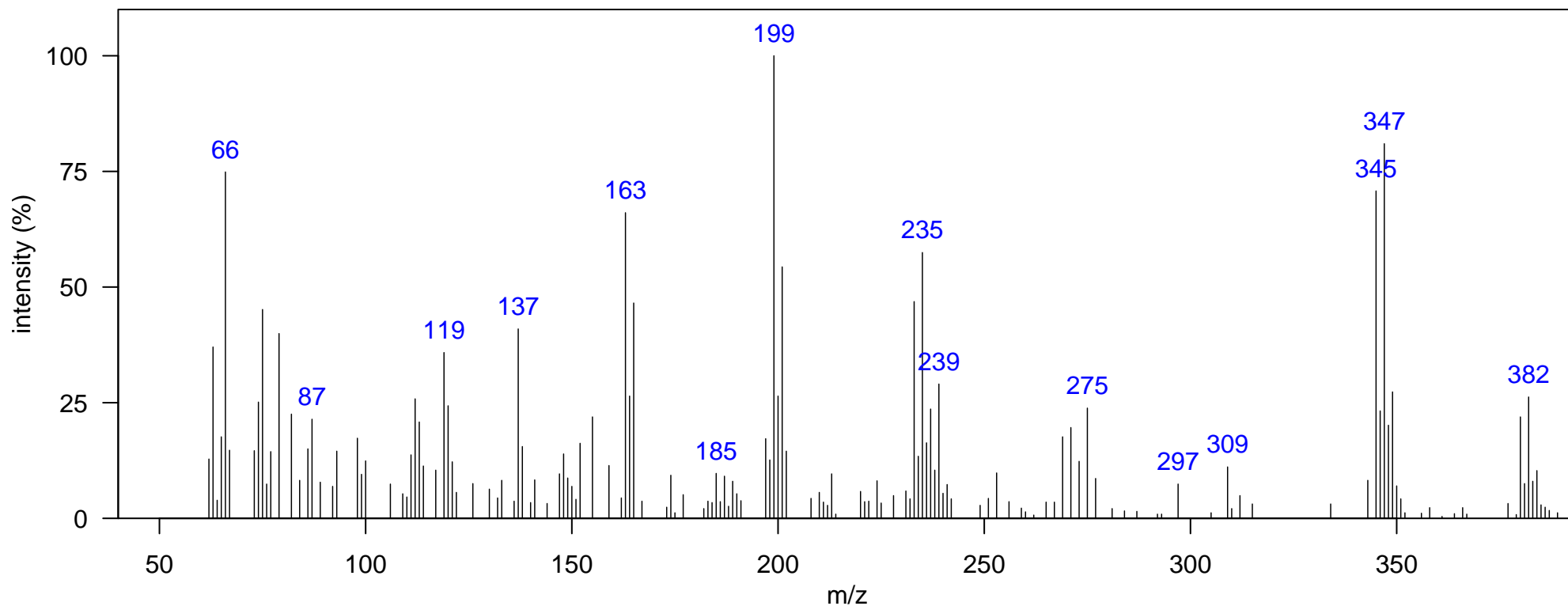


m/z [Fragment]
309 [M-HCl <sub>2</sub> ] <sup>+</sup>
345 [M-Cl] <sup>+</sup>
380 M <sup>+</sup>

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

1D RT, 2D RT (s): 1705.37, 1.954  
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

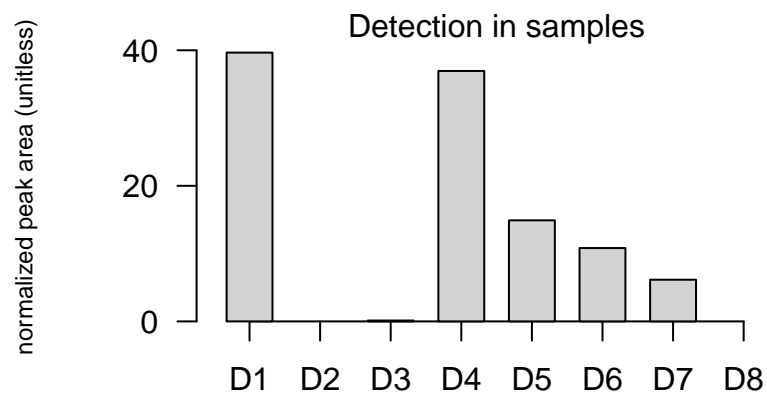
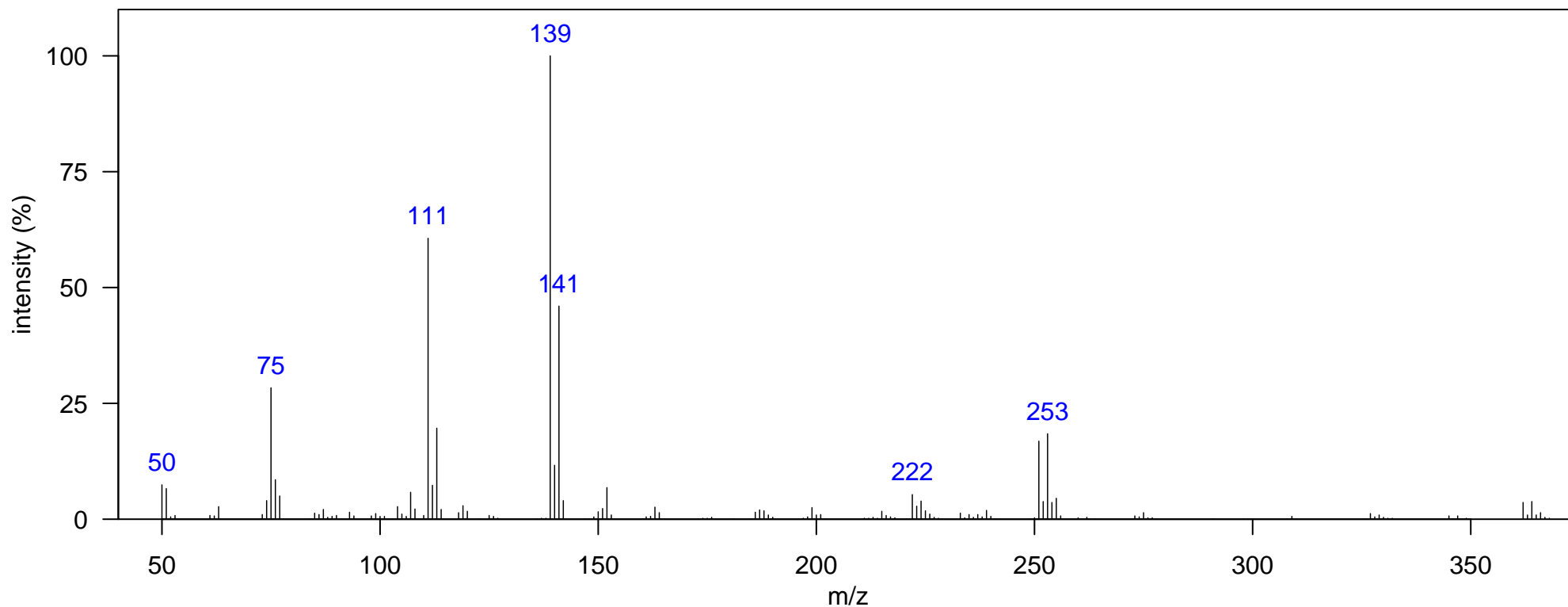


m/z [Fragment]
309 [M-HCl <sub>2</sub> ] <sup>+</sup>
345 [M-Cl] <sup>+</sup>
380 M <sup>+</sup>

Class: TCPMOH

1D RT, 2D RT (s): 1677.38, 2.119  
Quantitative Ion m/z: 139  
Atlantic Lib:

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



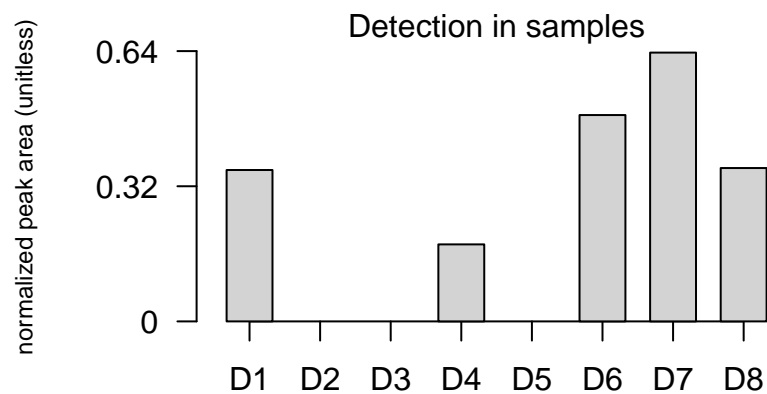
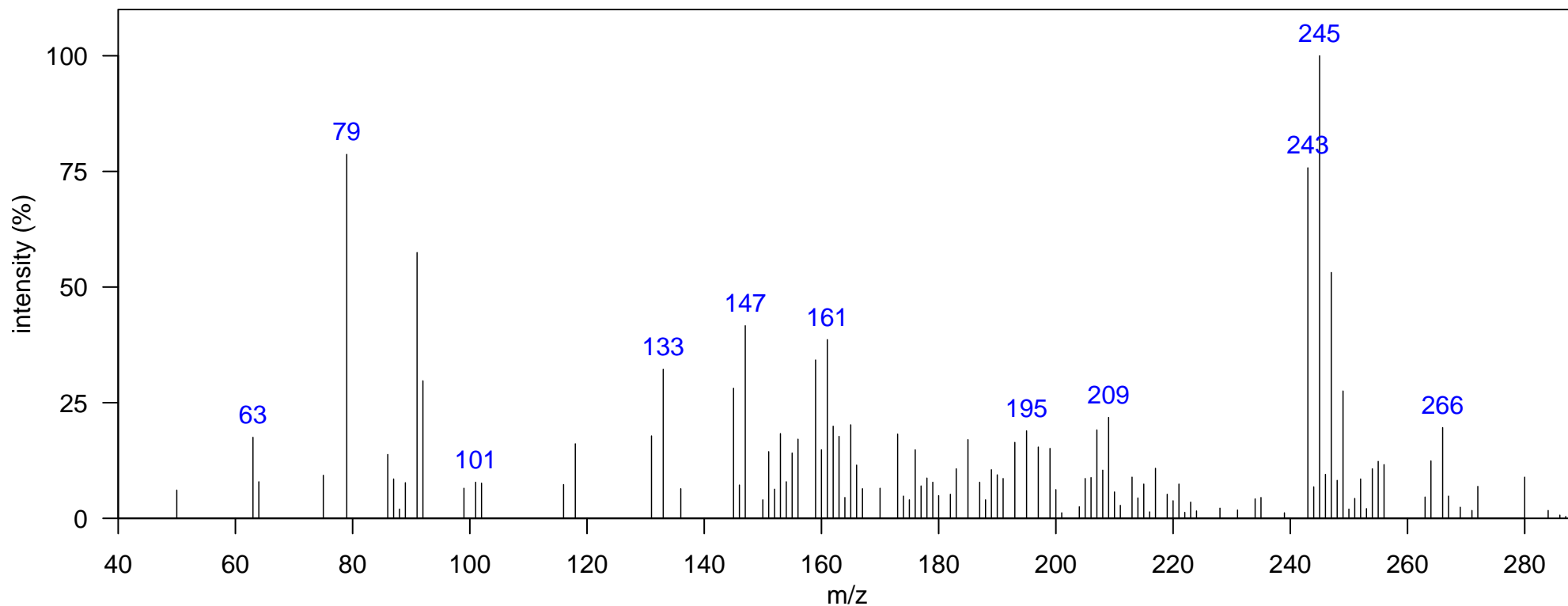
m/z [Fragment]

Class: Toxaphene

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

1D RT, 2D RT (s): 1285.61, 1.208  
Quantitative Ion m/z: 245  
Atlantic Lib:

Elemental Formula: C<sub>8</sub>H<sub>7</sub>Cl<sub>5</sub>  
Source: anthropogenic  
Identification: Manual



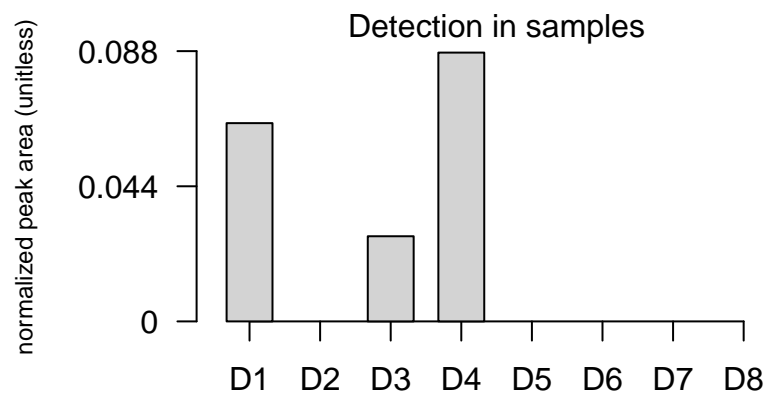
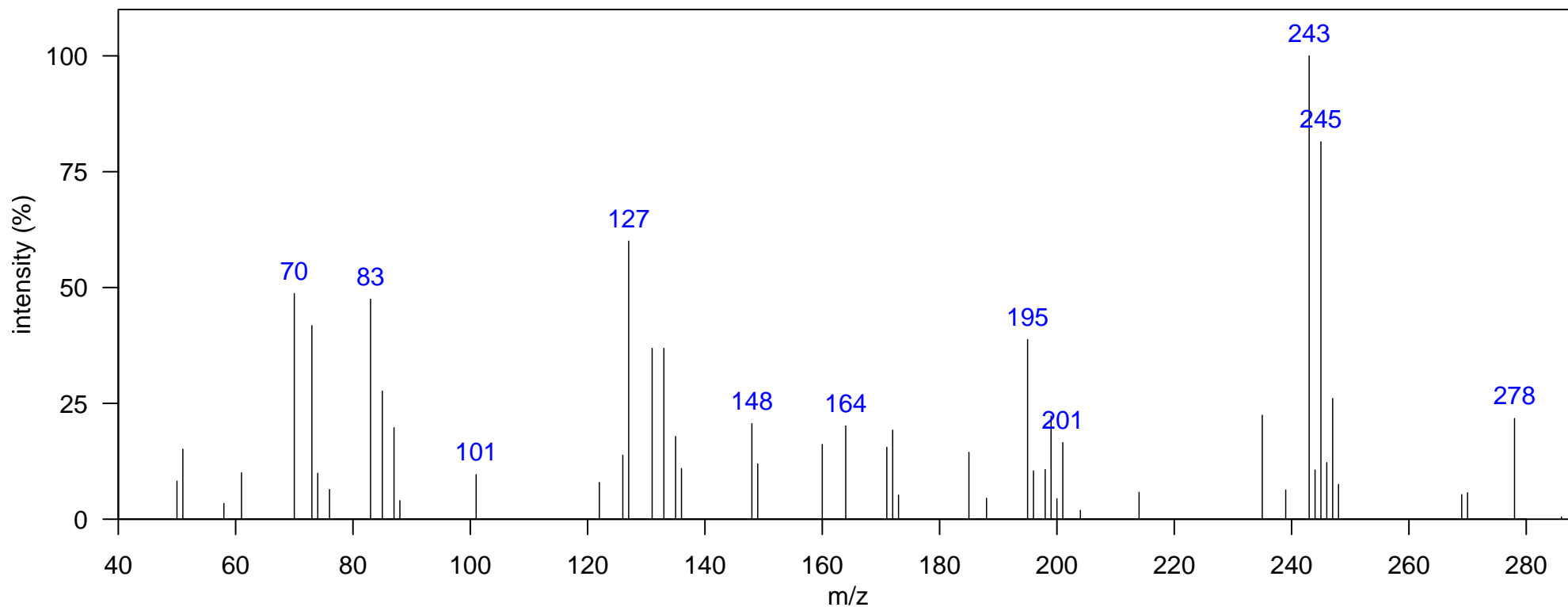
m/z [Fragment]

Class: Toxaphene

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

1D RT, 2D RT (s): 1422.03, 1.452  
Quantitative Ion m/z: 245  
Atlantic Lib: toxaphene 1 & 2

Elemental Formula: C<sub>8</sub>H<sub>7</sub>ClI<sub>5</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



m/z [Fragment]

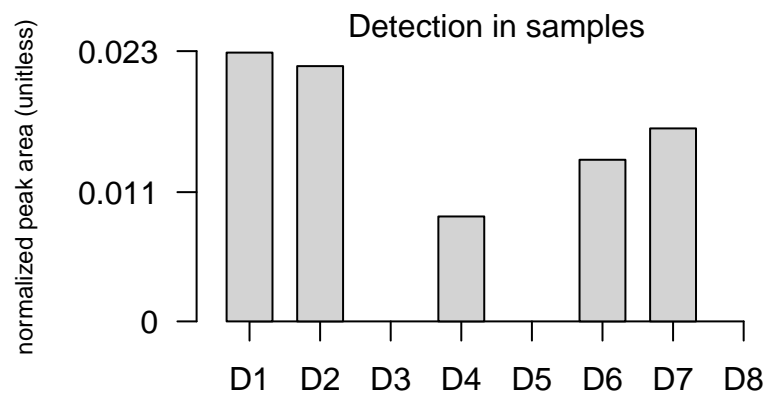
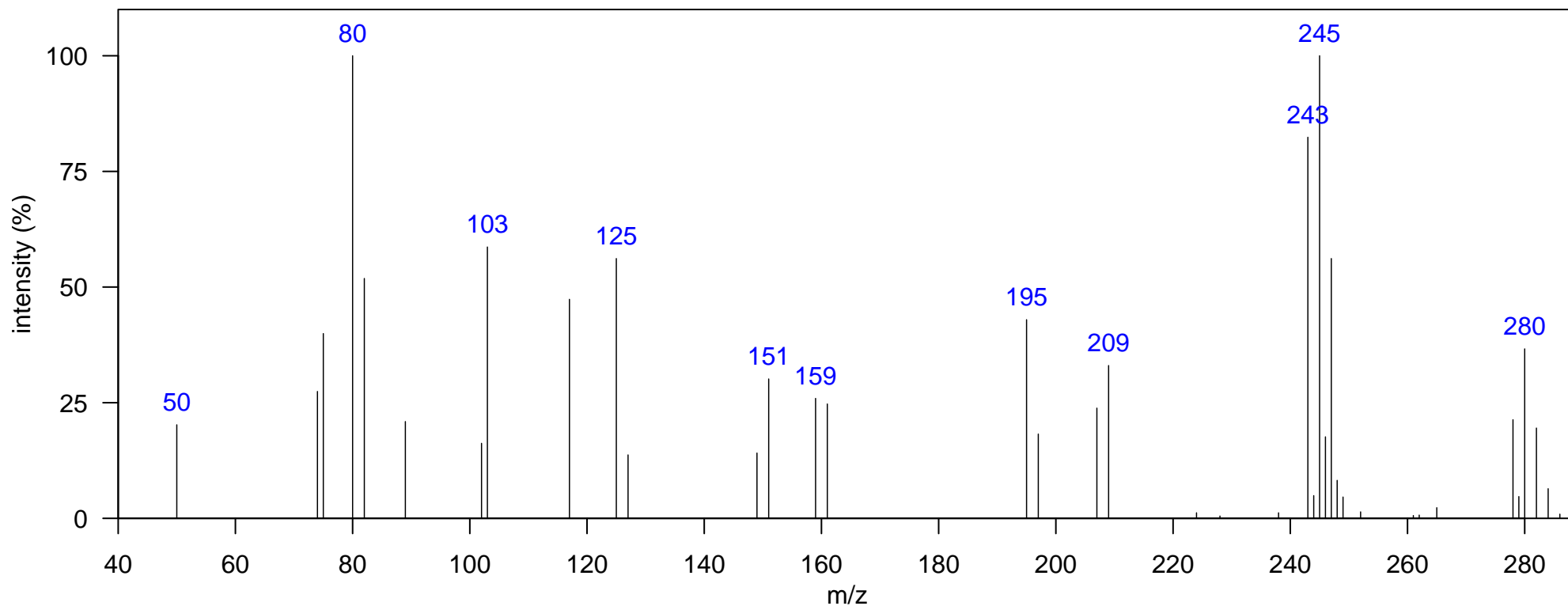


Class: Toxaphene

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

1D RT, 2D RT (s): 1495.49, 1.063  
Quantitative Ion m/z: 245  
Atlantic Lib: toxaphene 1 & 2

Elemental Formula: C<sub>8</sub>H<sub>7</sub>ClI<sub>5</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



m/z [Fragment]

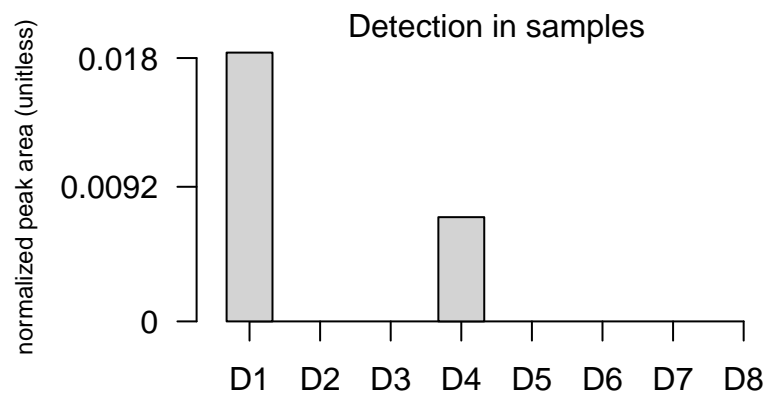
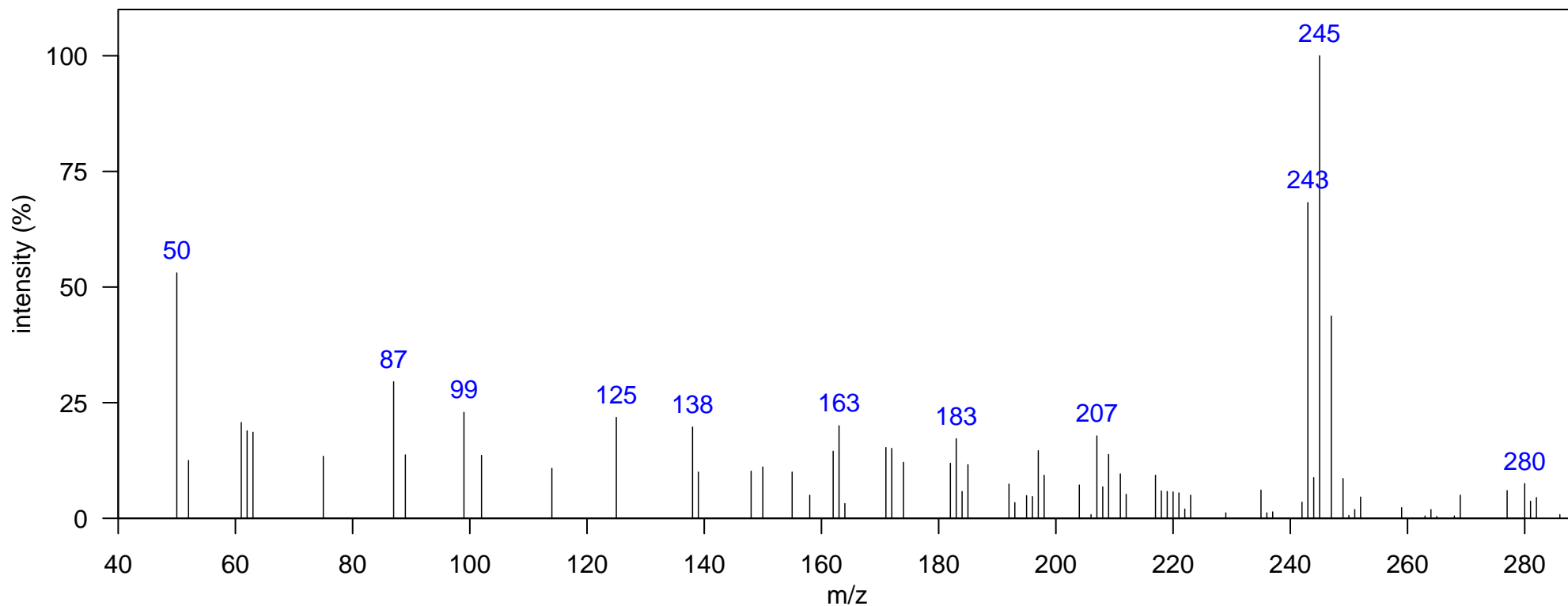
Name: toxaphene 4

Class: Toxaphene

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

1D RT, 2D RT (s): 1533.97, 1.096  
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



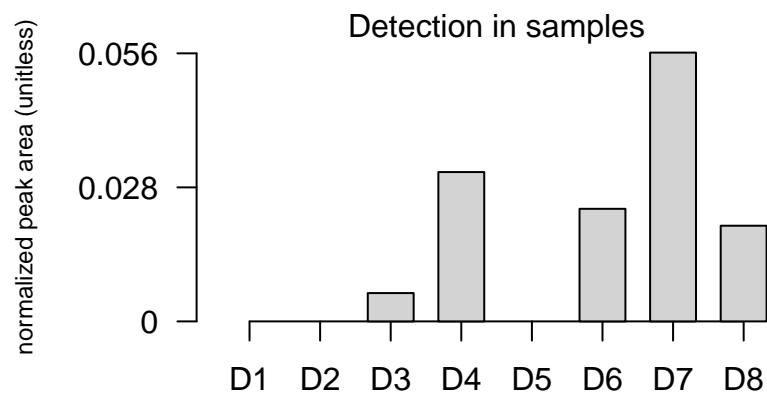
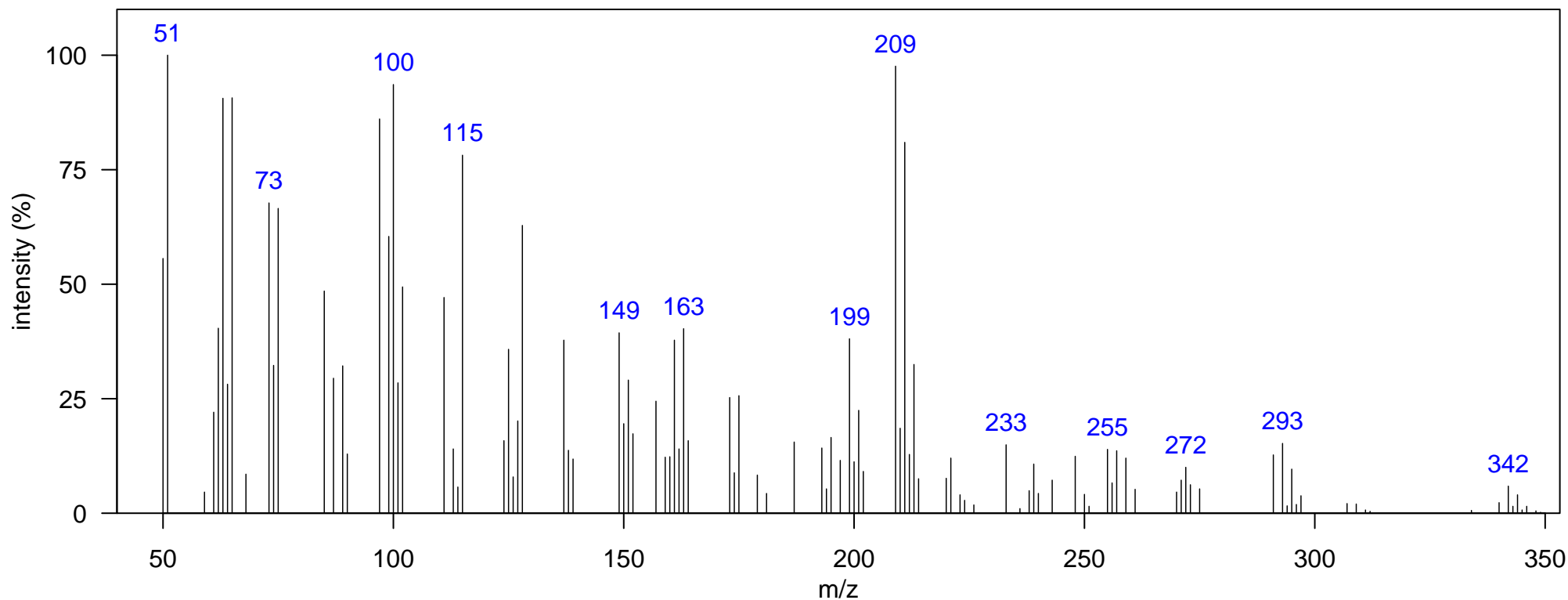
m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1257.62, 1.234  
Quantitative Ion m/z: 293  
Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>10</sub>Cl<sub>6</sub>  
Source: anthropogenic  
Identification: Manual



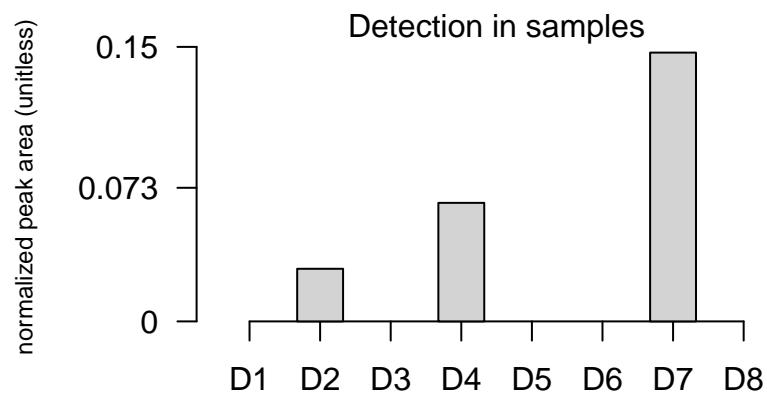
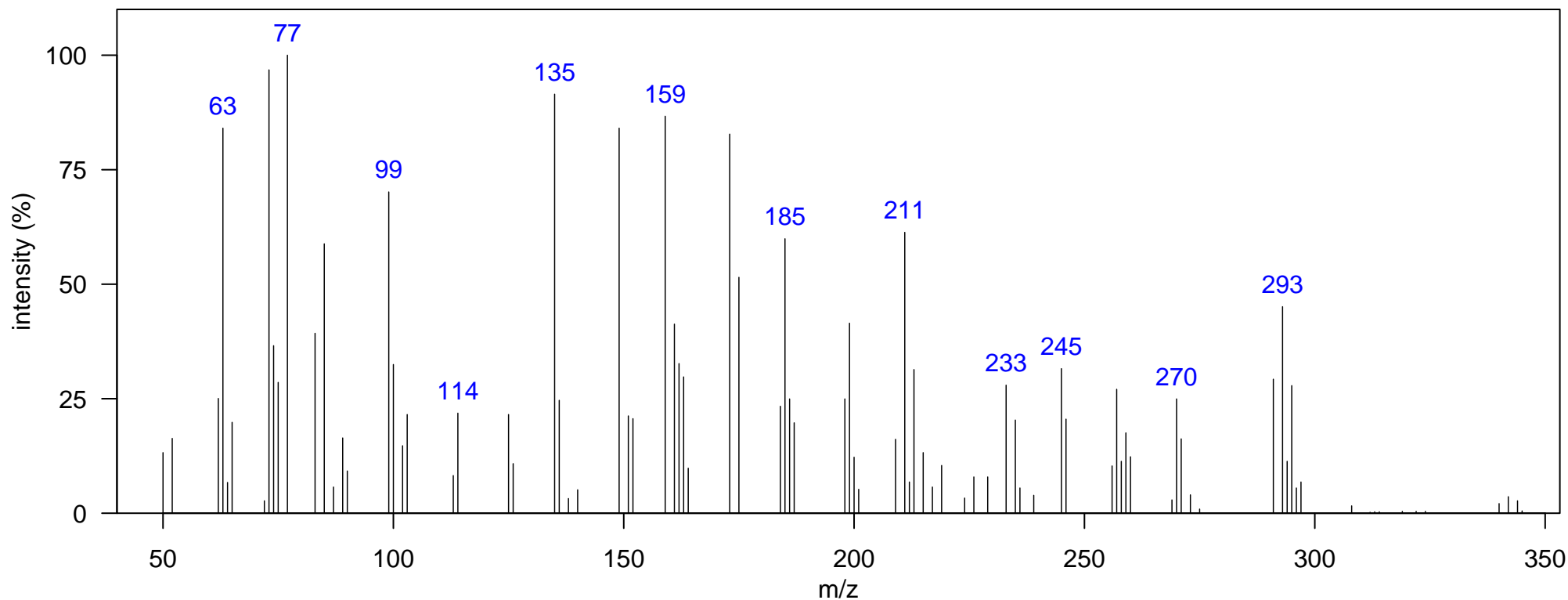
m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1275.11, 1.261  
Quantitative Ion m/z: 245  
Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>10</sub>Cl<sub>6</sub>  
Source: anthropogenic  
Identification: Manual



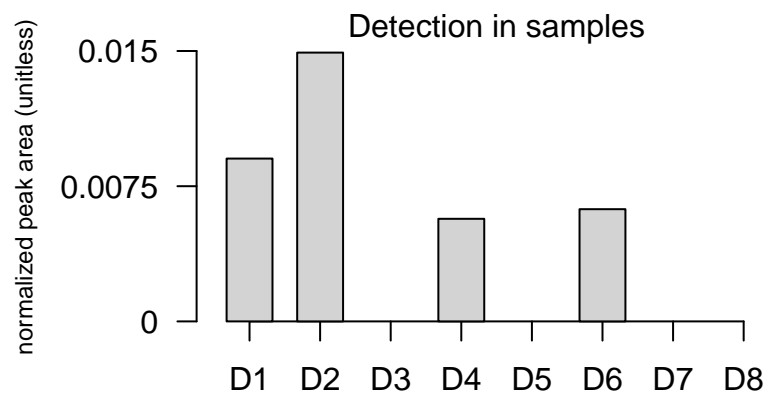
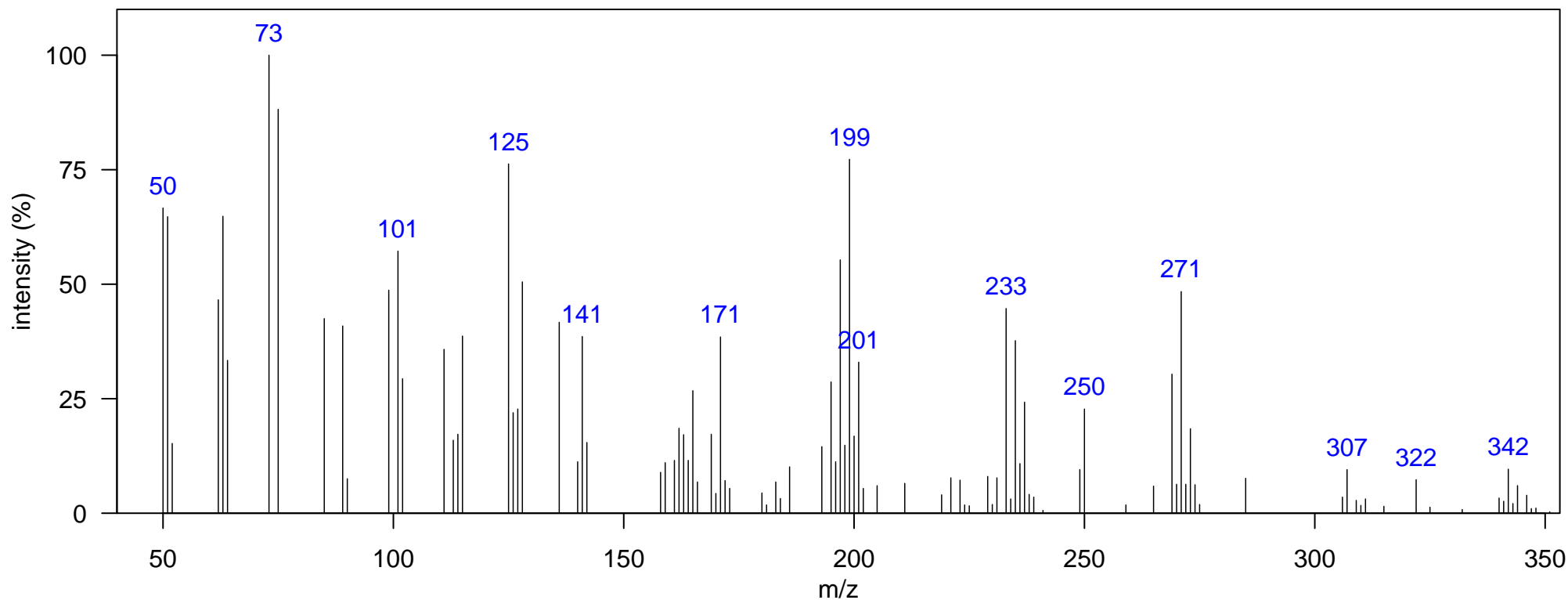
m/z [Fragment]

Class: Toxaphene

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

1D RT, 2D RT (s): 1404.54, 1.023  
Quantitative Ion m/z: 271  
Atlantic Lib:

Elemental Formula: C<sub>10</sub>H<sub>10</sub>Cl<sub>6</sub>  
Source: anthropogenic  
Identification: Manual



m/z [Fragment]

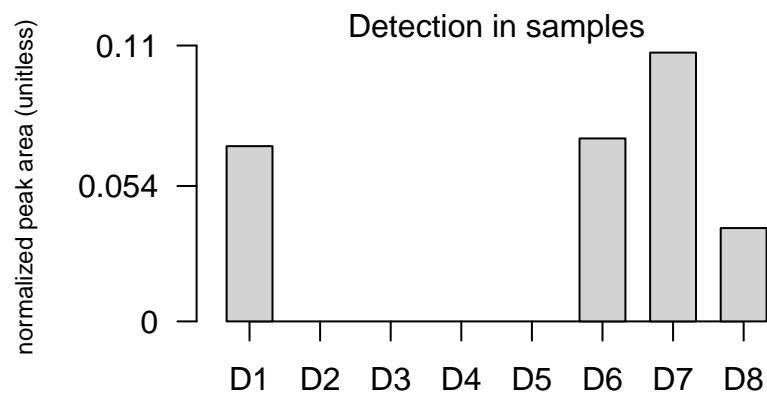
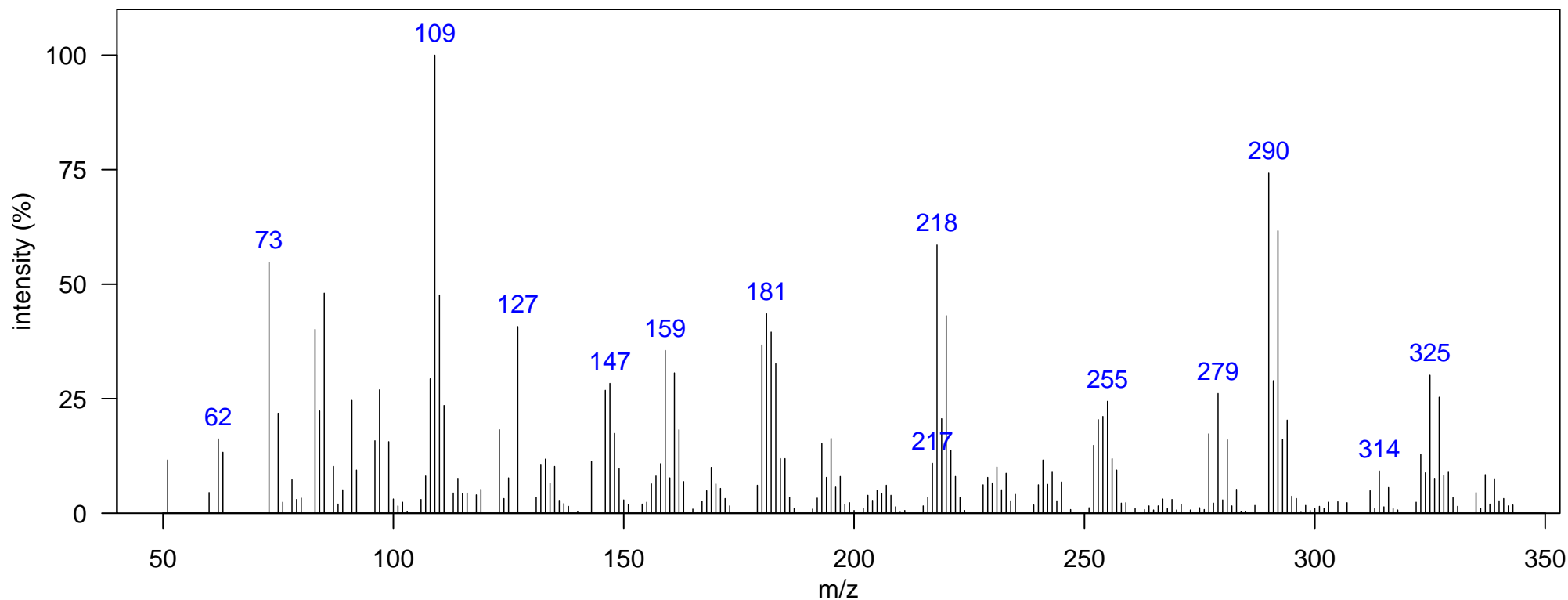
Name: toxaphene 8

Class: Toxaphene

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

1D RT, 2D RT (s): 1429.03, 1.432  
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



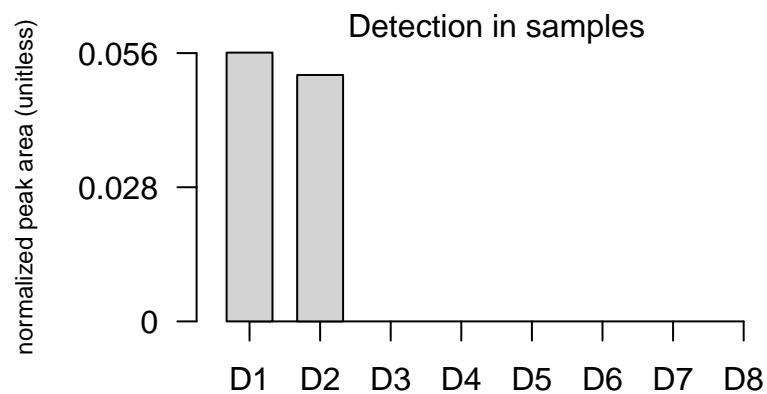
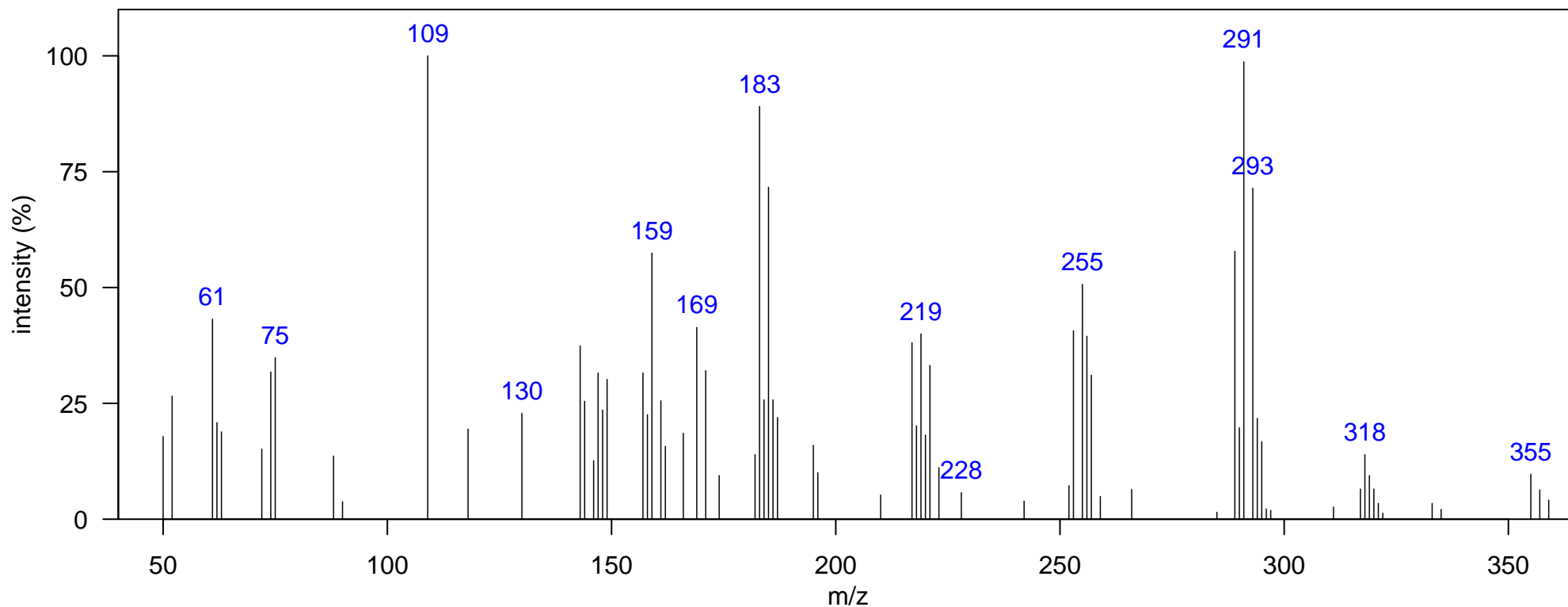
m/z [Fragment]
290 PCB Interference
325 PCB Interference

Class: Toxaphene

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: nist identification

1D RT, 2D RT (s): 1401.04, 1.445  
Quantitative Ion m/z: 289  
Atlantic Lib:

Elemental Formula: C10H6Cl6O  
Source: anthropogenic  
Identification: Reference Database MS



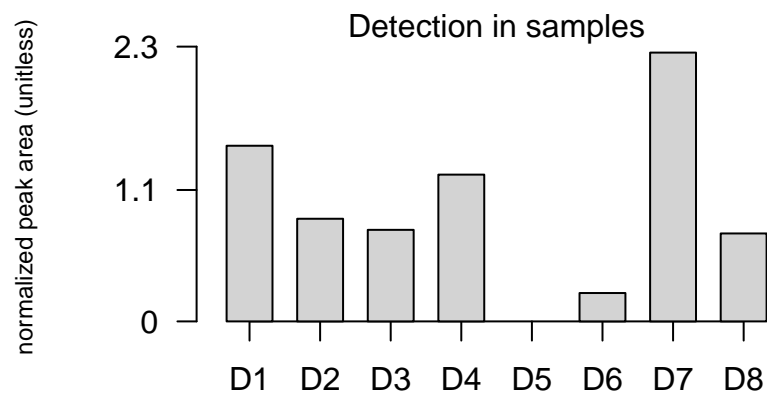
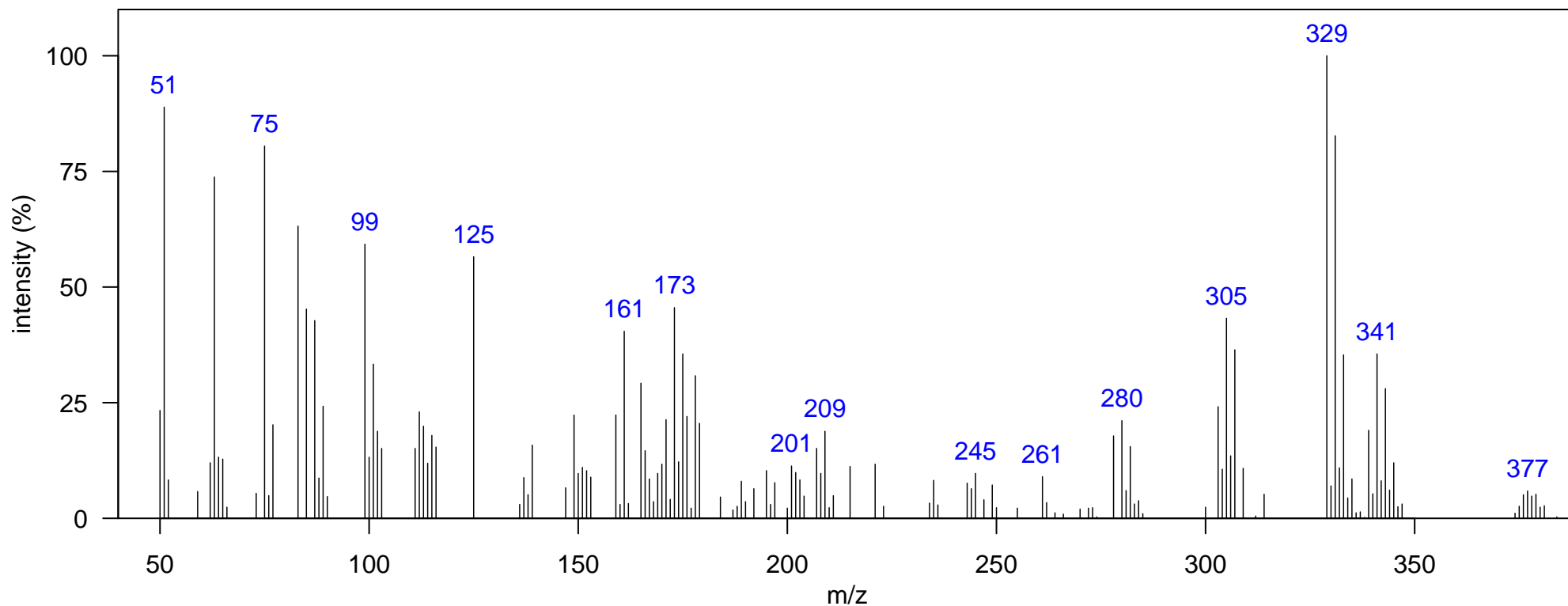
m/z [Fragment]

Class: Toxaphene

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

1D RT, 2D RT (s): 1404.54, 1.267  
Quantitative Ion m/z: 329  
Atlantic Lib: toxaphene 6

Elemental Formula: C10H9Cl7  
Source: anthropogenic  
Identification: Authentic MS RT



m/z [Fragment]



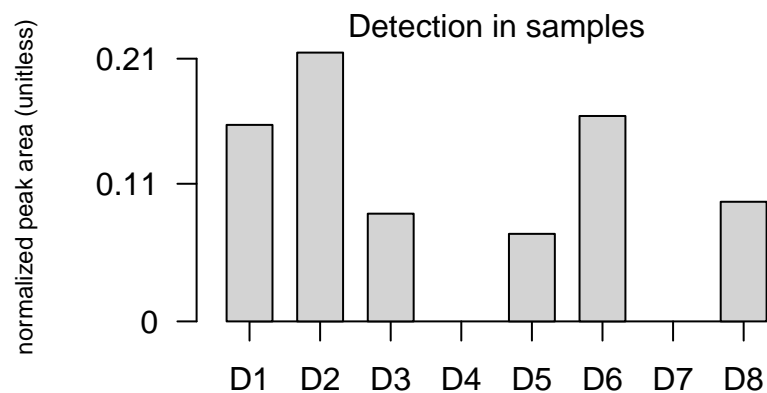
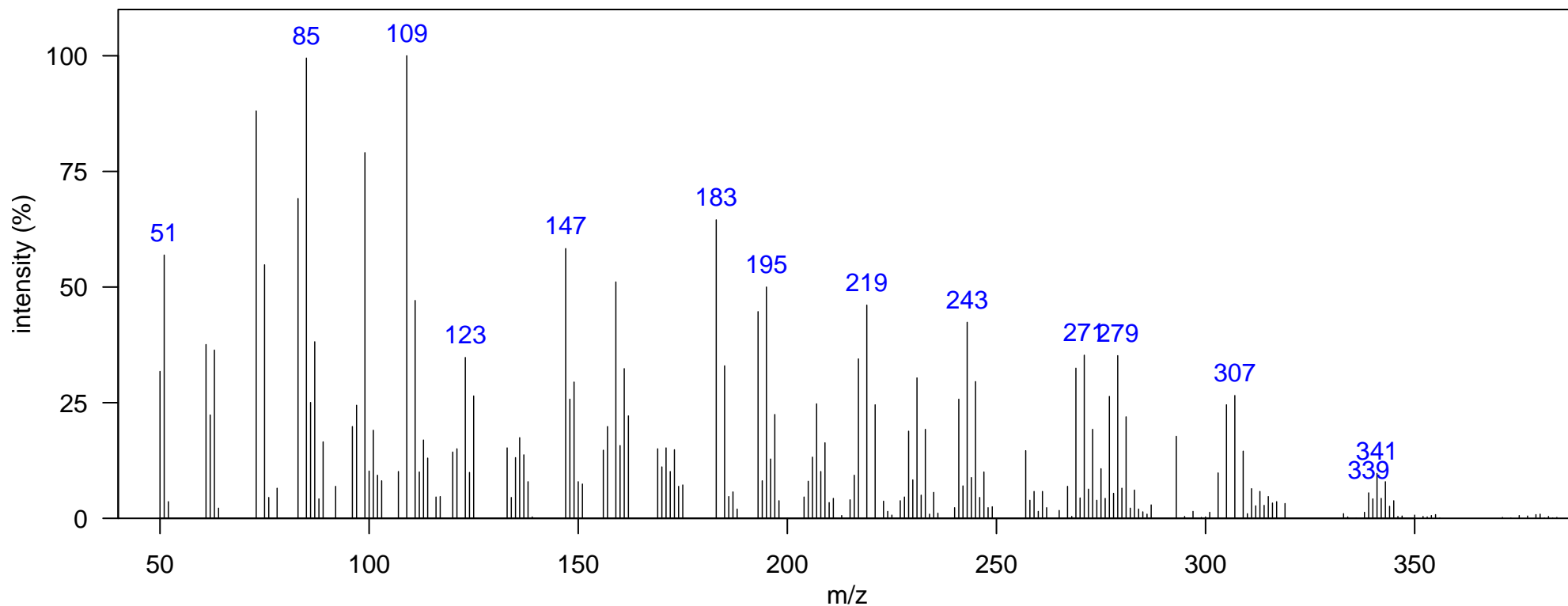
Name: toxaphene 11

Class: Toxaphene

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

1D RT, 2D RT (s): 1432.52, 1.36  
Quantitative Ion m/z: 279  
Atlantic Lib: toxaphene 7

Elemental Formula: C<sub>10</sub>H<sub>9</sub>Cl<sub>7</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



m/z [Fragment]

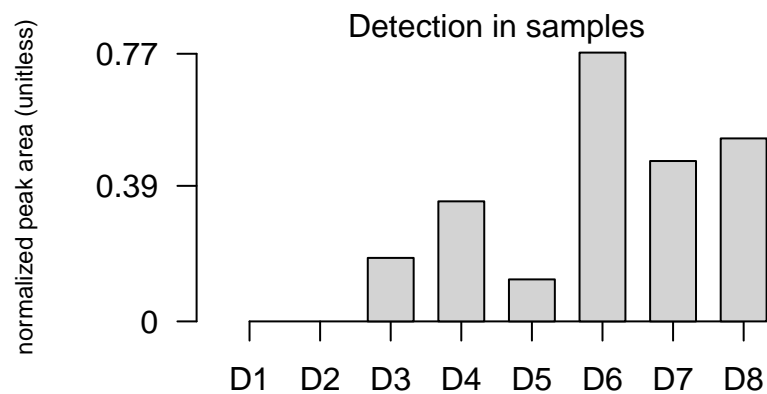
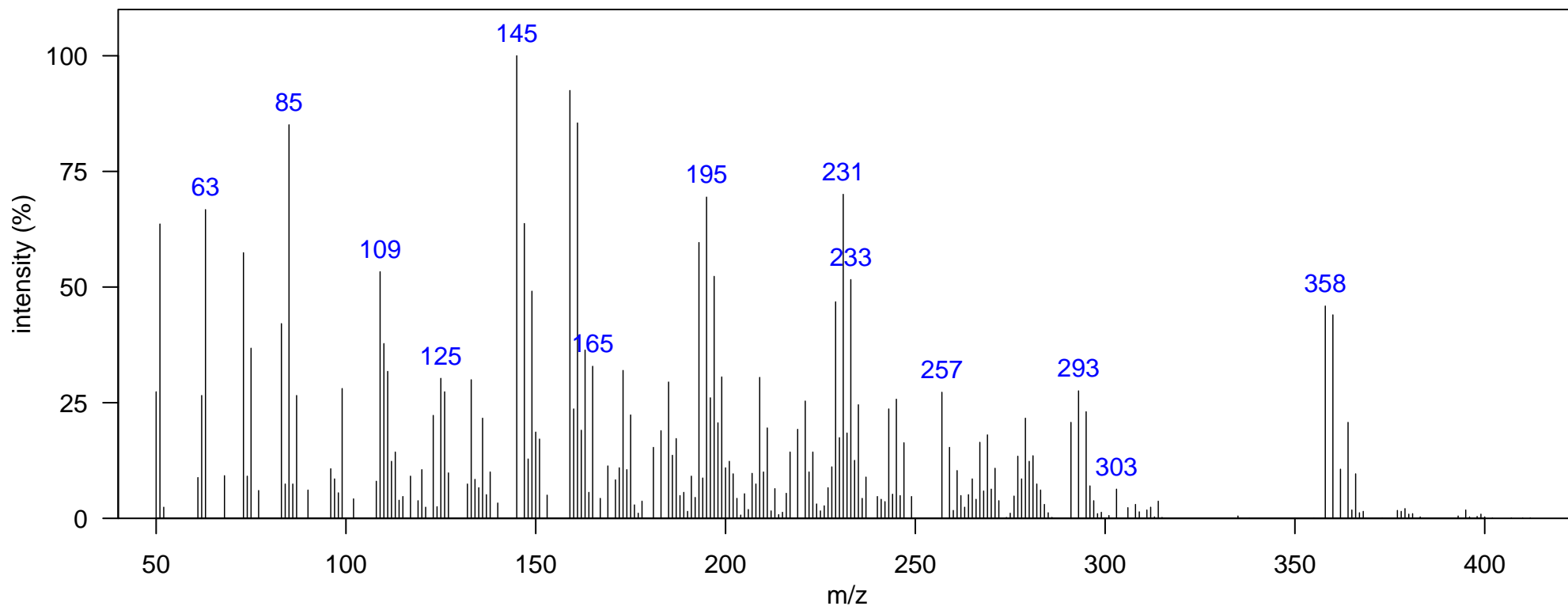
Name: toxaphene 12

Class: Toxaphene

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1401.04, 1.3  
Quantitative Ion m/z: 245  
Atlantic Lib: toxaphene 4

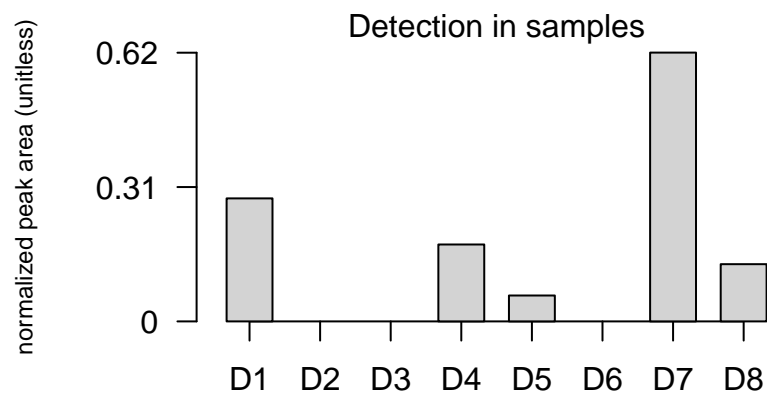
Elemental Formula: C<sub>10</sub>H<sub>8</sub>Cl<sub>8</sub>  
Source: anthropogenic  
Identification: Manual



m/z [Fragment]
360 PCB Interference

Class: Toxaphene

Elemental Formula: C10H8Cl8  
Source: anthropogenic  
Identification: Manual



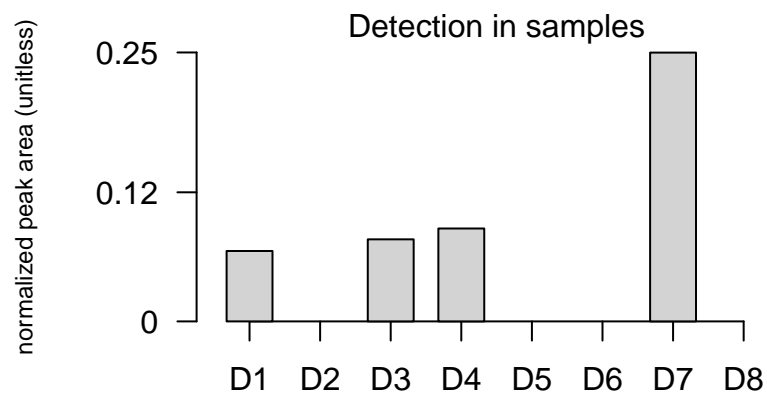
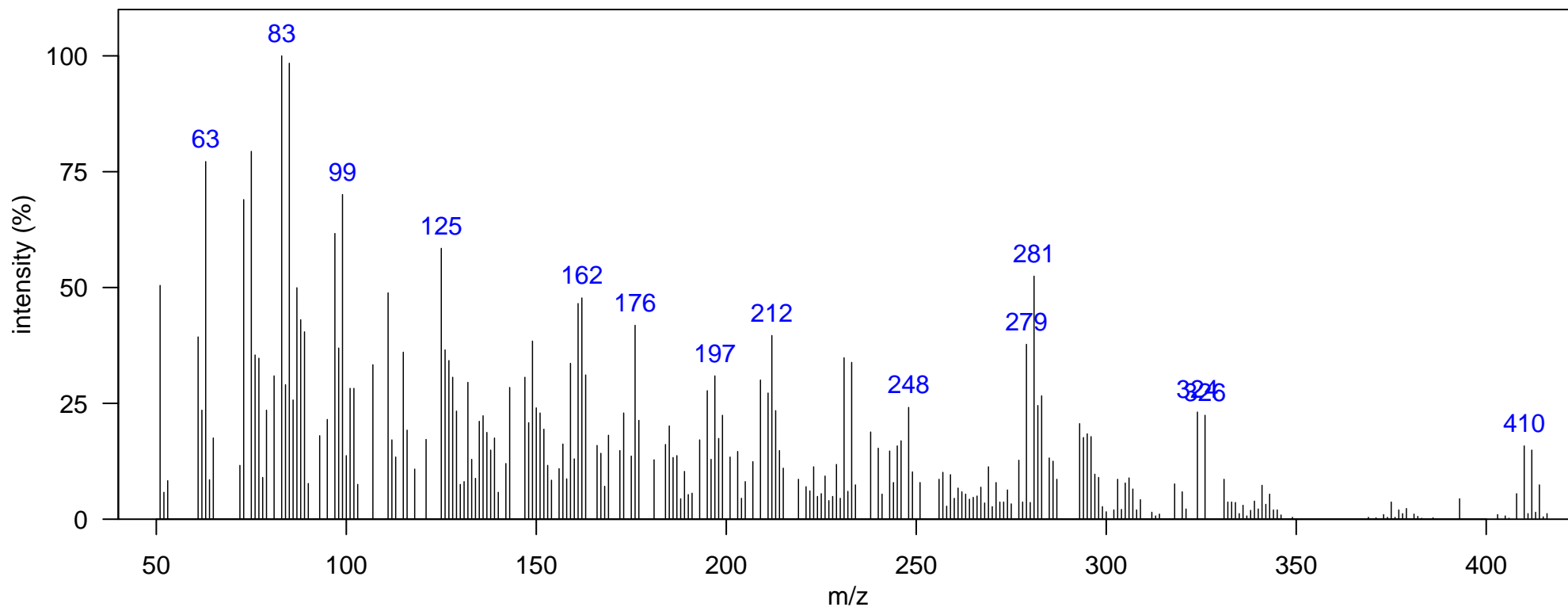
m/z [Fragment]

Class: Toxaphene

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1450.01, 1.426  
Quantitative Ion m/z: 279  
Atlantic Lib:

Elemental Formula: C10H8Cl8  
Source: anthropogenic  
Identification: Manual



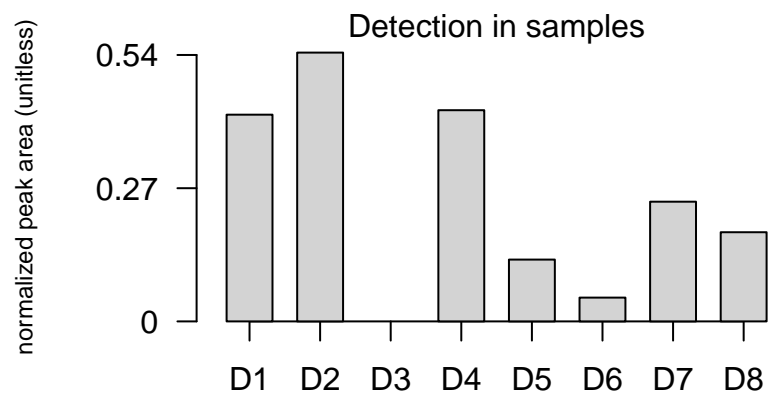
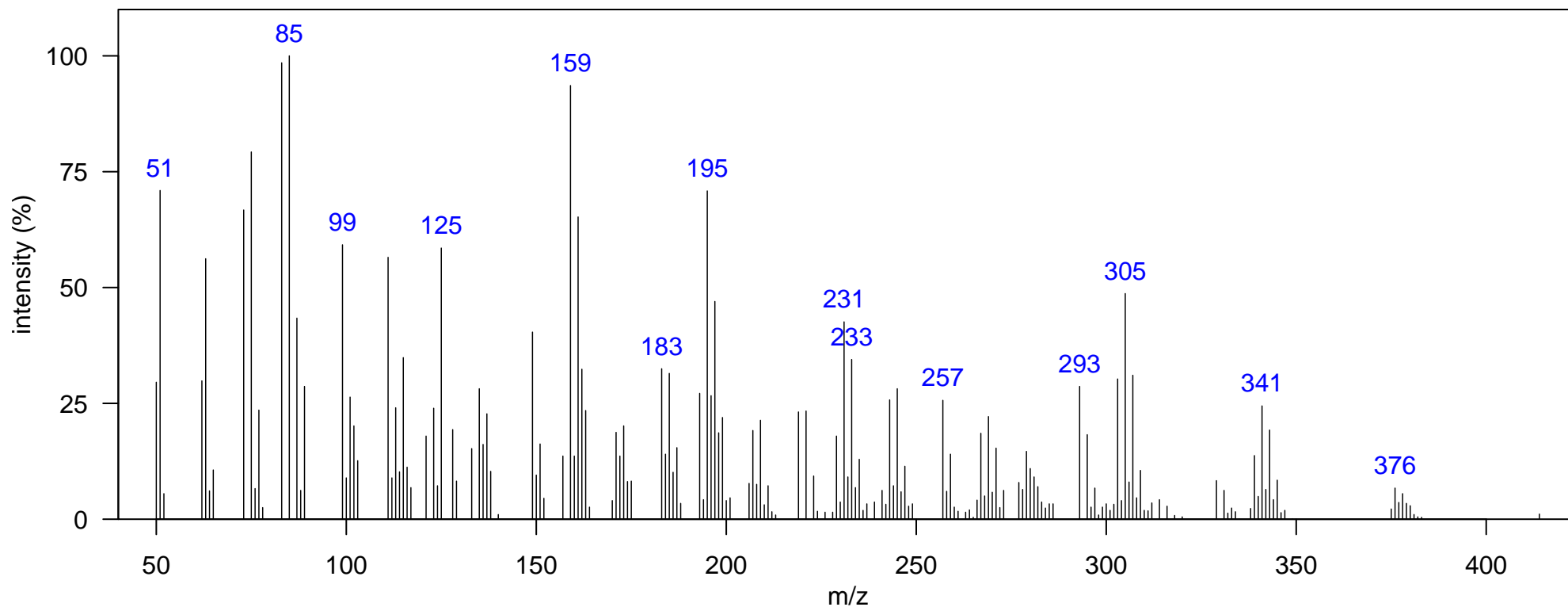
m/z [Fragment]

Class: Toxaphene

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

1D RT, 2D RT (s): 1464.01, 1.399  
Quantitative Ion m/z: 245  
Atlantic Lib: toxaphene 8

Elemental Formula: C10H8Cl8  
Source: anthropogenic  
Identification: Manual



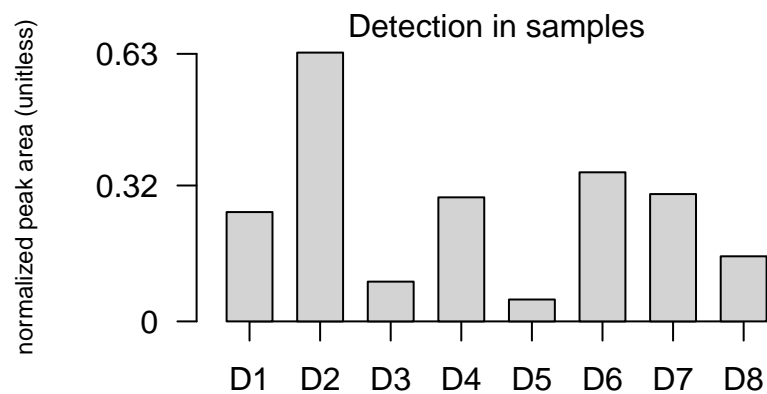
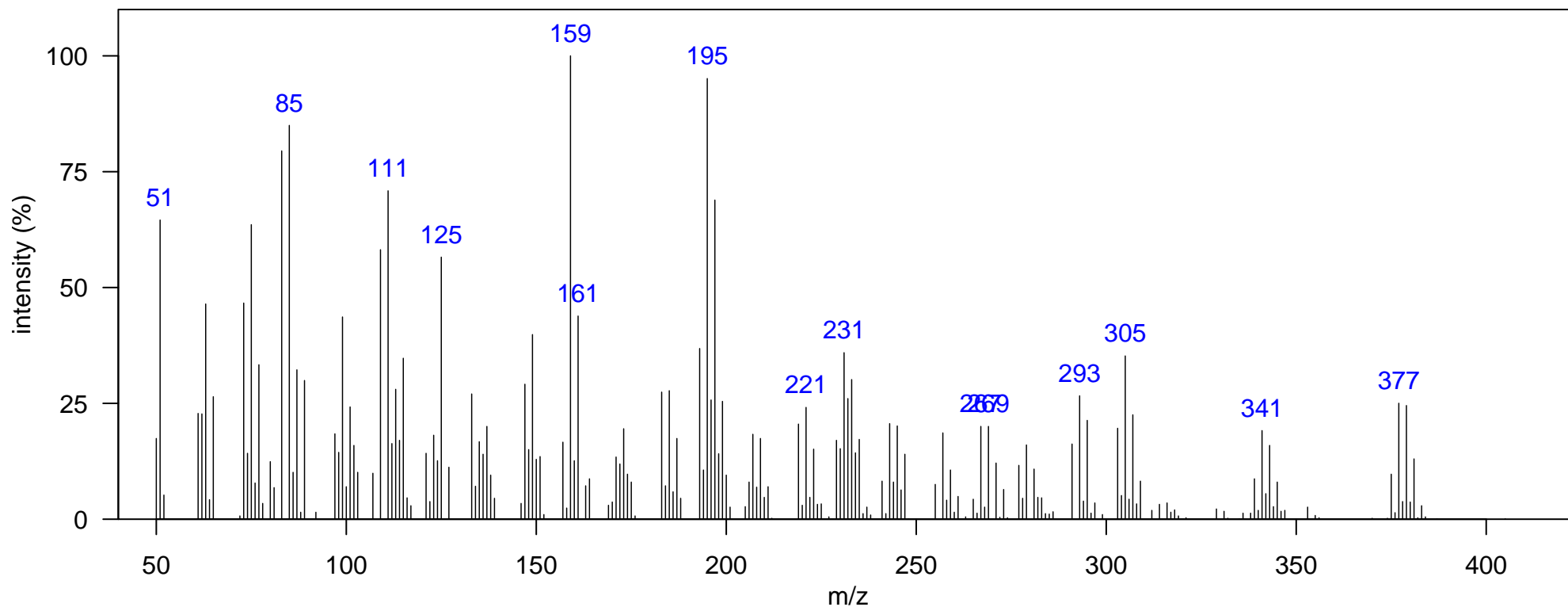
m/z [Fragment]

Class: Toxaphene

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

1D RT, 2D RT (s): 1478, 1.432  
Quantitative Ion m/z: 245  
Atlantic Lib: toxaphene 9

Elemental Formula: C10H8Cl8  
Source: anthropogenic  
Identification: Authentic MS RT



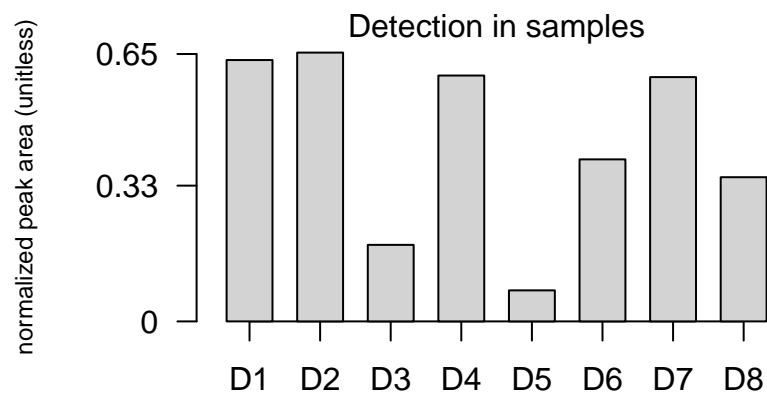
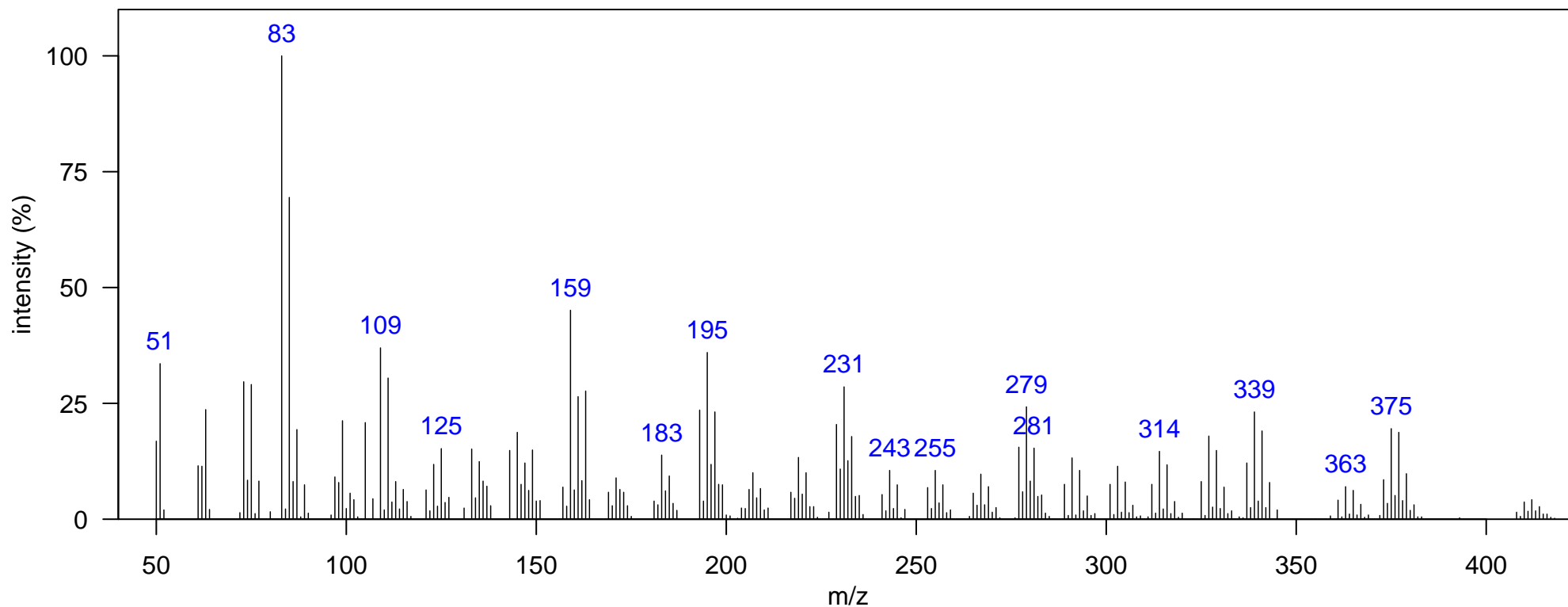
m/z [Fragment]

Class: Toxaphene

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

1D RT, 2D RT (s): 1495.49, 1.406  
Quantitative Ion m/z: 339  
Atlantic Lib: toxaphene 10

Elemental Formula: C10H8Cl8  
Source: anthropogenic  
Identification: Authentic MS RT



m/z [Fragment]

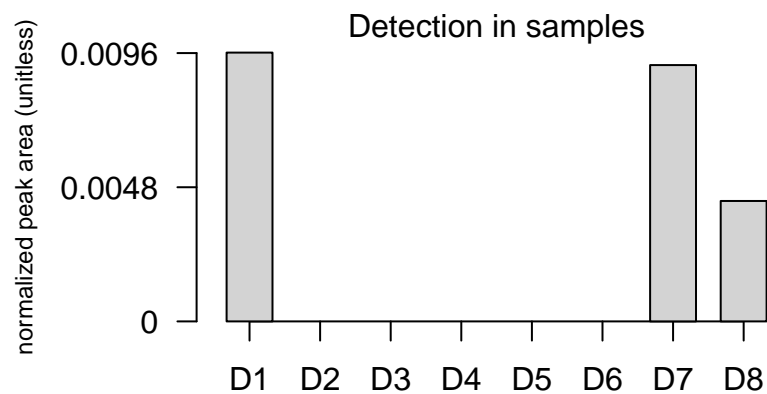
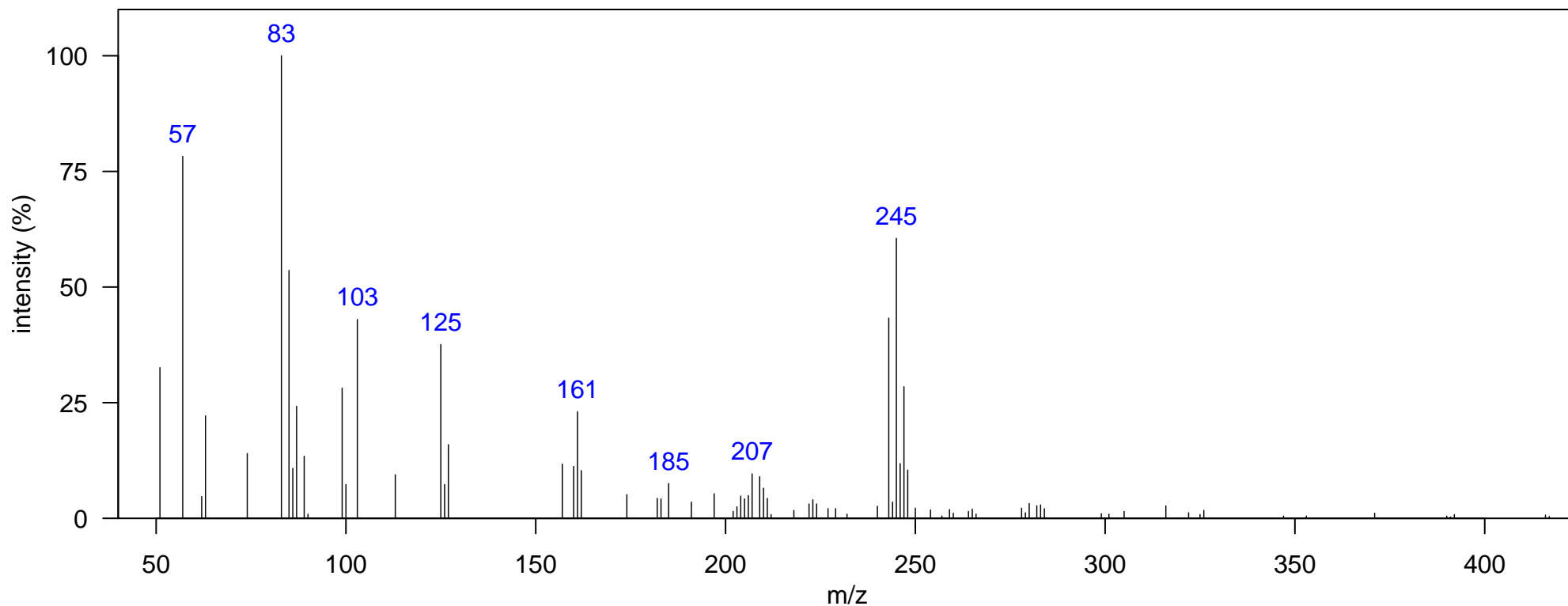
Name: toxaphene 18

Class: Toxaphene

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

1D RT, 2D RT (s): 1509.48, 1.03  
Quantitative Ion m/z: 245  
Atlantic Lib: toxaphene 10

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



m/z [Fragment]

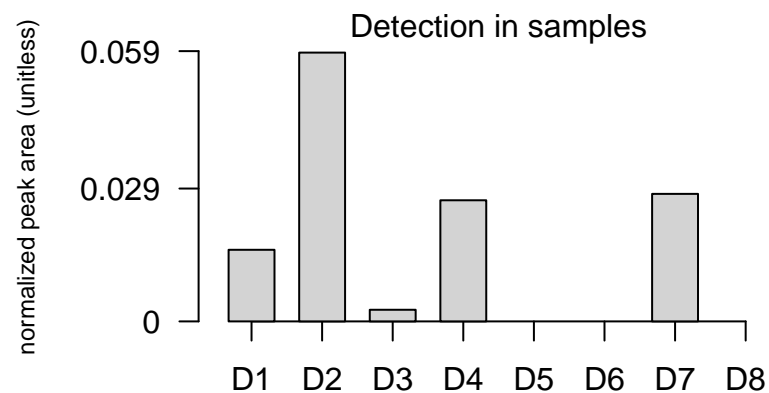
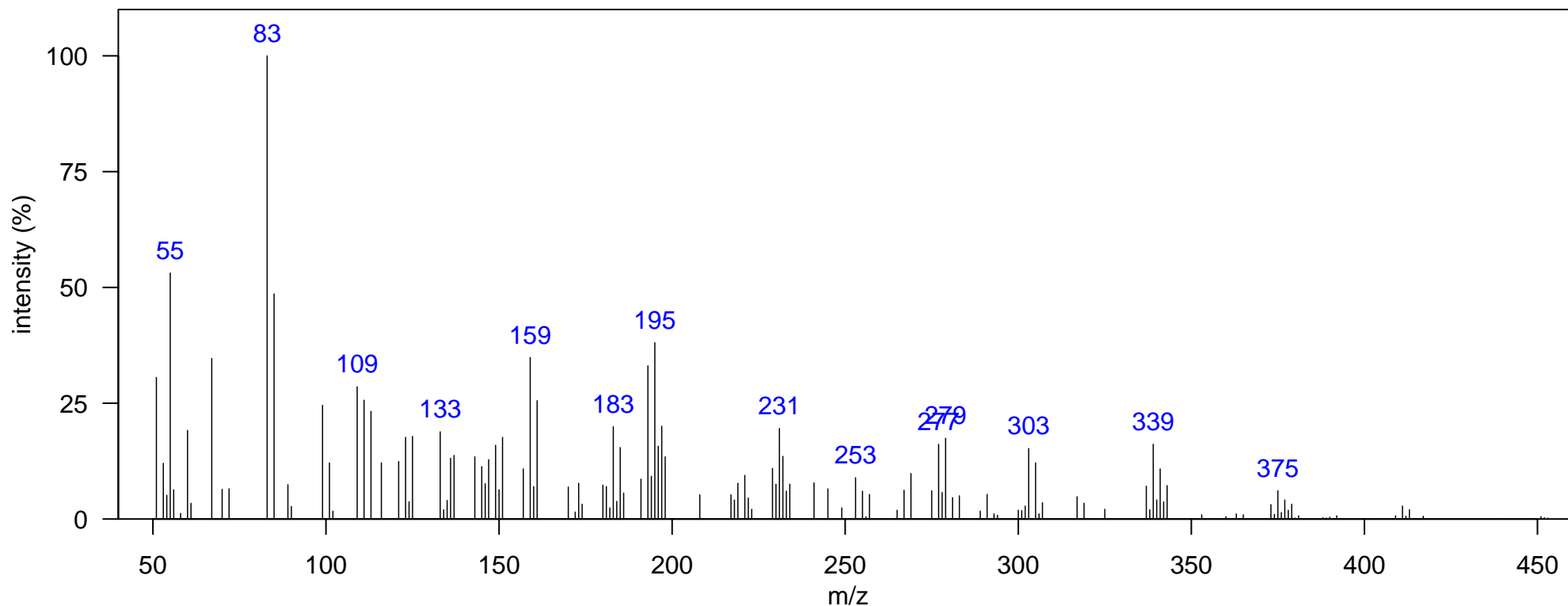


Class: Toxaphene

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

1D RT, 2D RT (s): 1554.95, 1.65  
Quantitative Ion m/z: 339  
Atlantic Lib: toxaphene 10

Elemental Formula: C<sub>10</sub>H<sub>9</sub>Cl<sub>9</sub>  
Source: anthropogenic  
Identification: Authentic MS



m/z [Fragment]

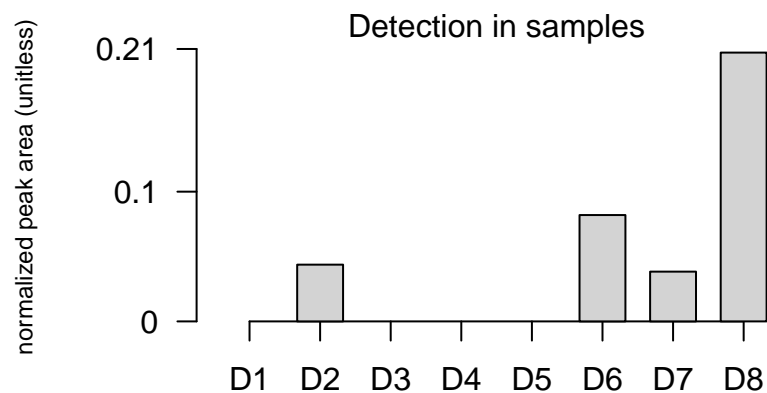
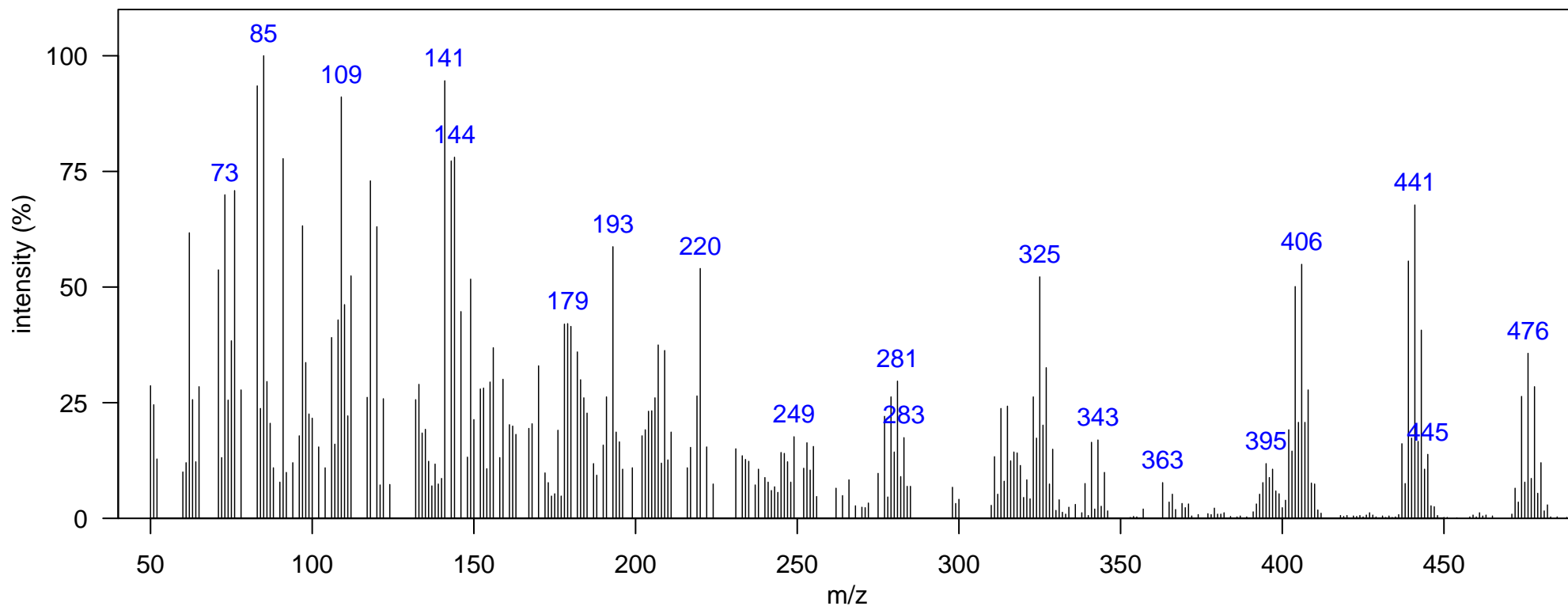
Name: mirex 2Cl 1

Class: Mirex-related

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1439.52, 1.373  
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>

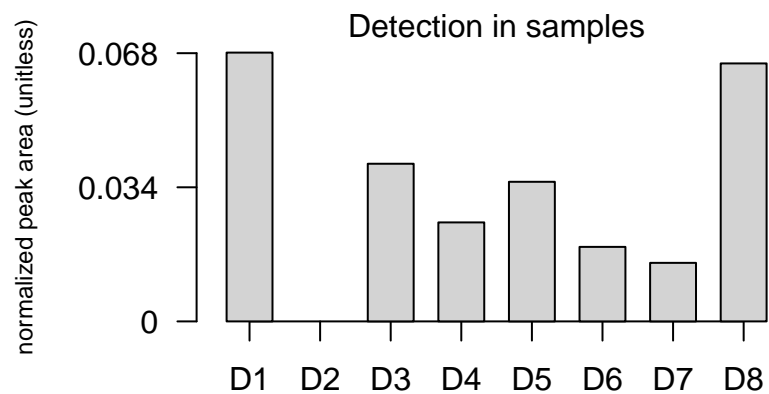
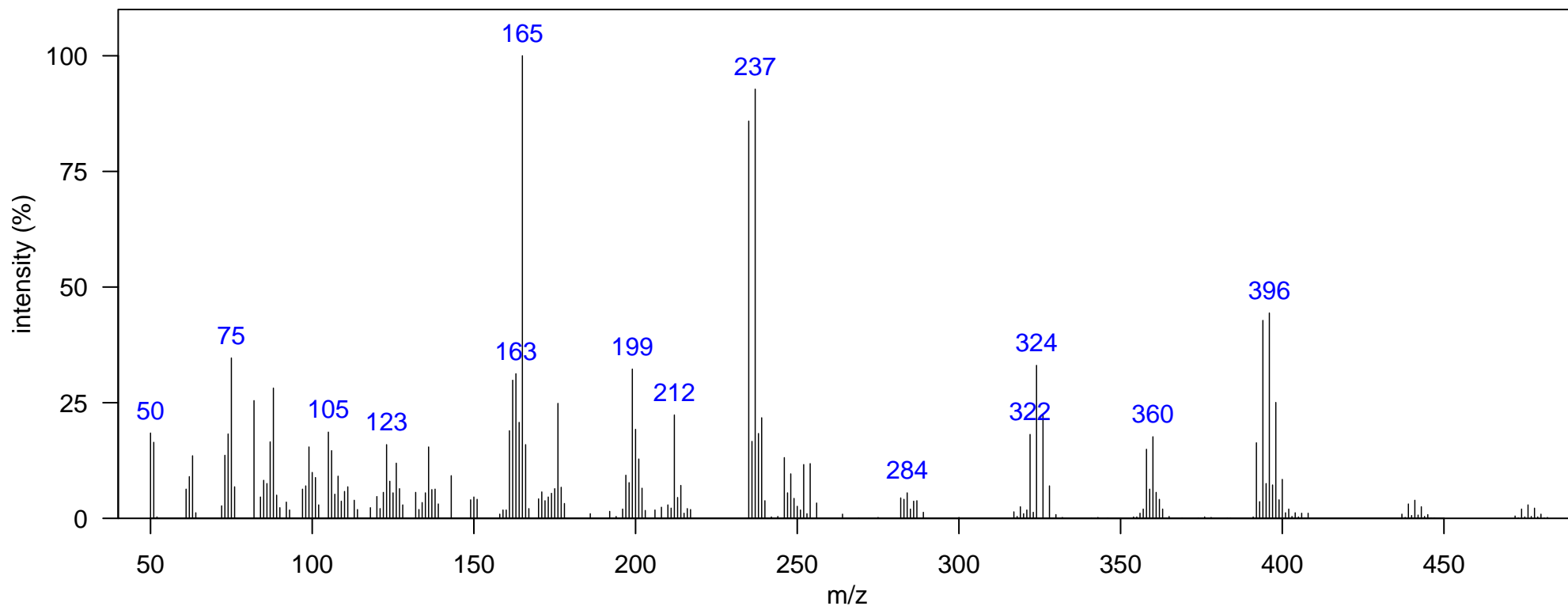
Name: mirex 2Cl 2

Class: Mirex-related

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

1D RT, 2D RT (s): 1453.51, 1.393  
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]

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

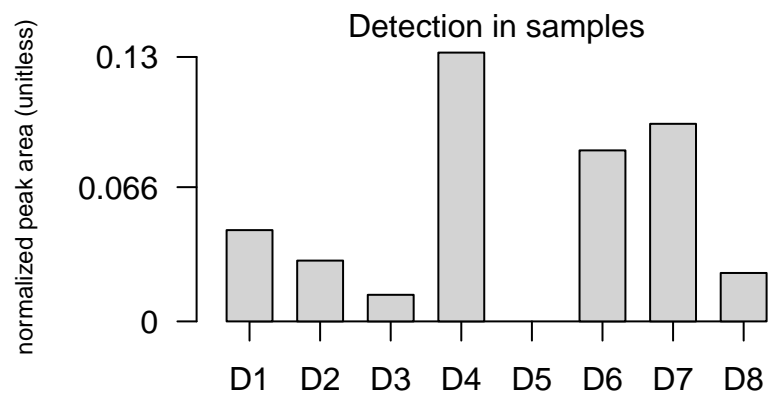
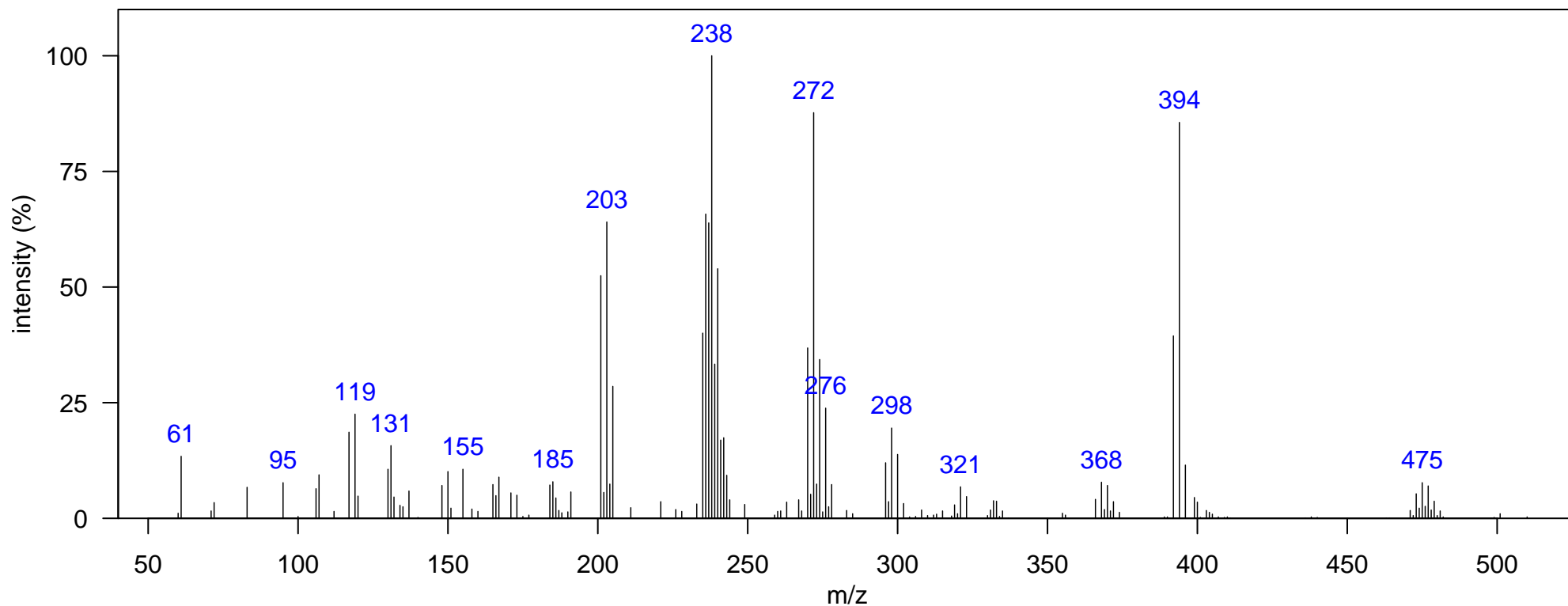
Name: mirex 1Cl

Class: Mirex-related

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

1D RT, 2D RT (s): 1498.99, 1.452  
Quantitative Ion m/z: 475  
Atlantic Lib: mirex-1Cl isomer

Elemental Formula: C<sub>10</sub>HCl<sub>11</sub>  
Source: anthropogenic  
Identification: Manual-Congener Group



m/z [Fragment]
270 [C5Cl6]+
366 [M-Cl4]
471 [M-Cl]+

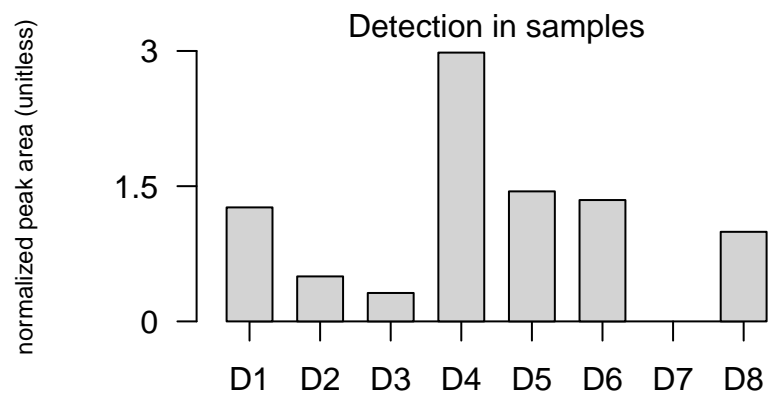
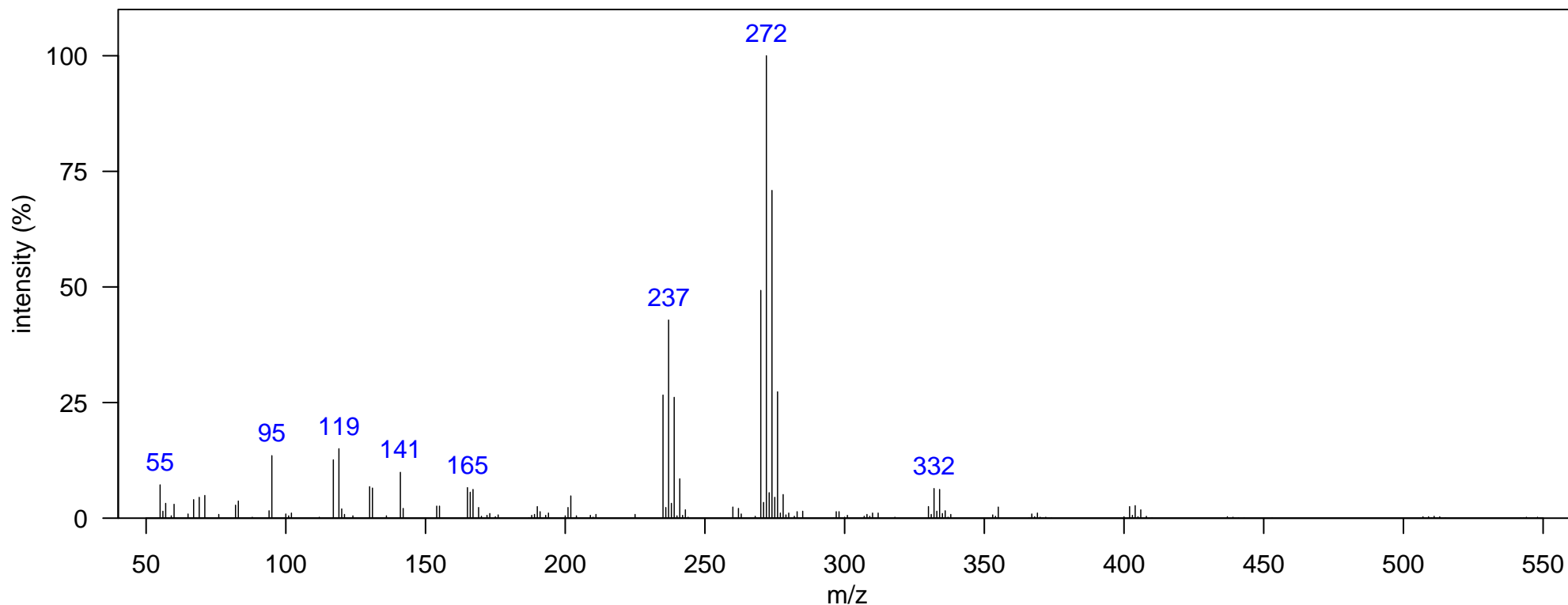
Name: mirex

Class: Mirex-related

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

1D RT, 2D RT (s): 1575.94, 1.696  
Quantitative Ion m/z: 272  
Atlantic Lib: mirex

Elemental Formula: C<sub>10</sub>Cl<sub>12</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



m/z [Fragment]

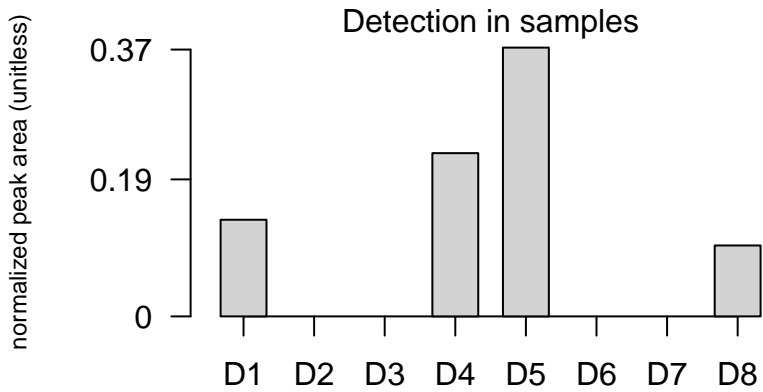
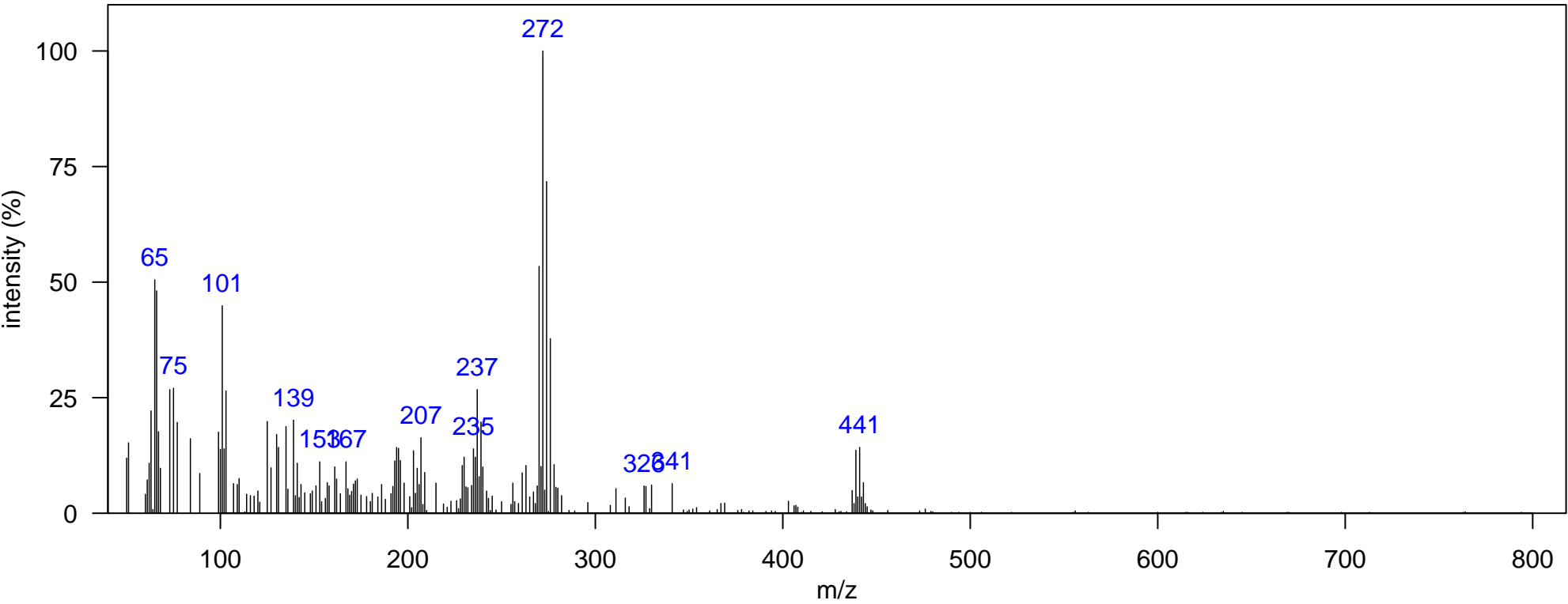
Name: mirex related 1

Class: Mirex-related

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

1D RT, 2D RT (s): 1701.87, 1.967  
Quantitative Ion m/z: 272  
Atlantic Lib:

Elemental Formula:  
Source: anthropogenic  
Identification: Manual



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

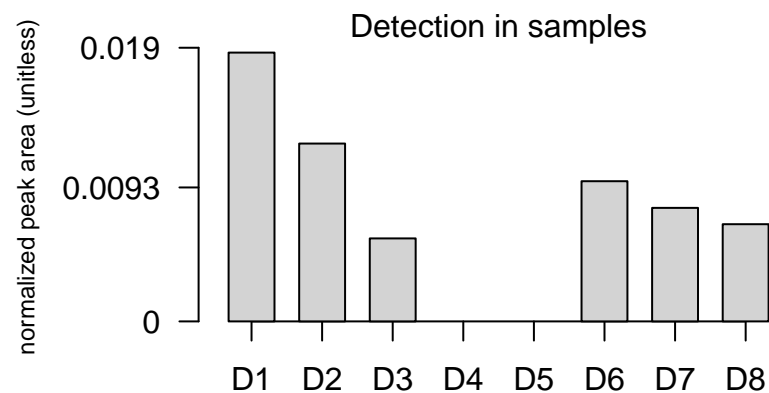
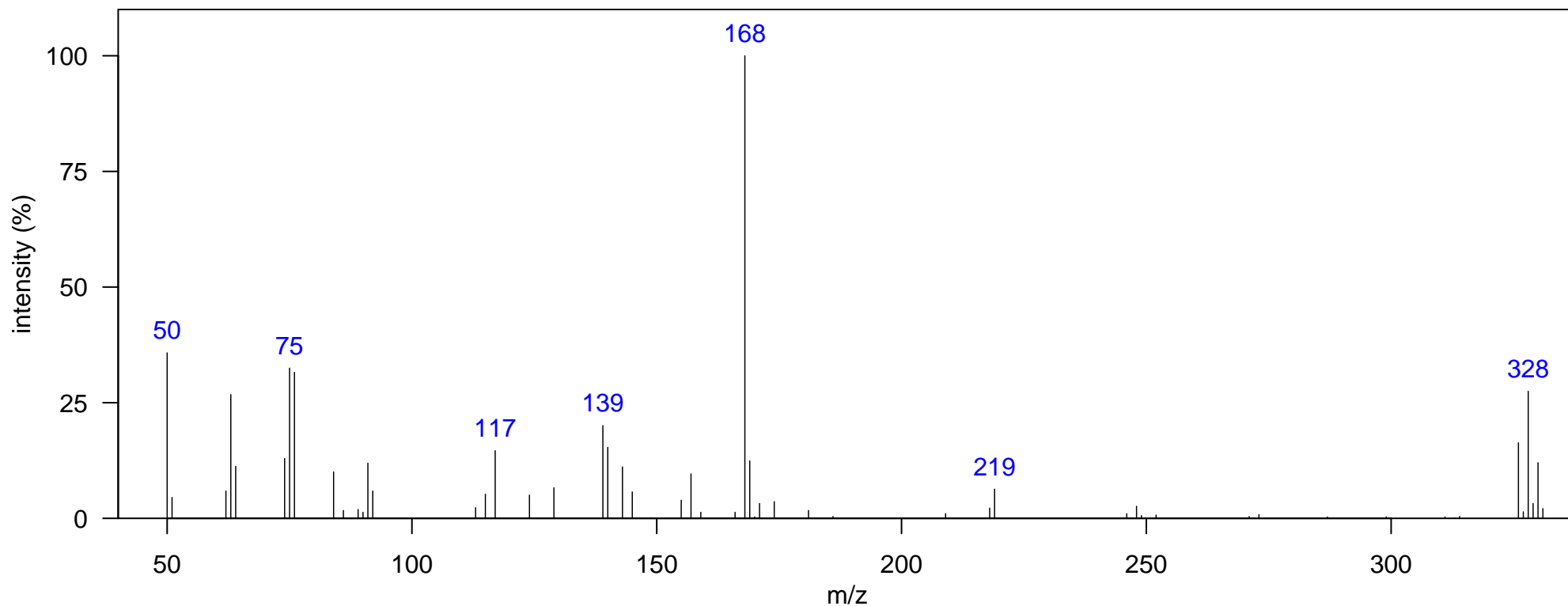
Name: BDE 2Br 1

Class: PBDE

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

1D RT, 2D RT (s): 1537.46, 0.983  
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>

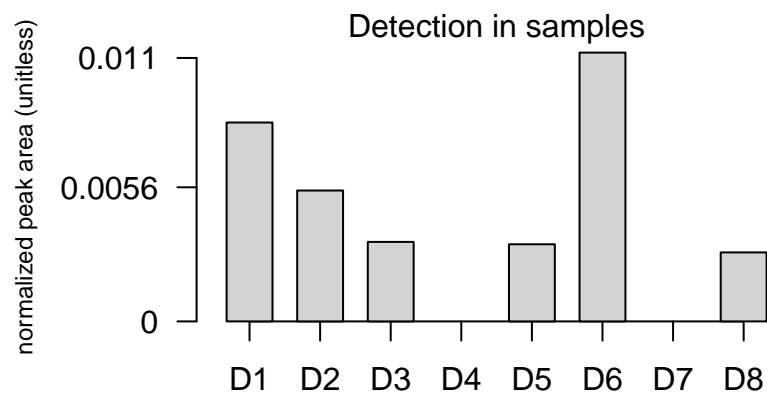
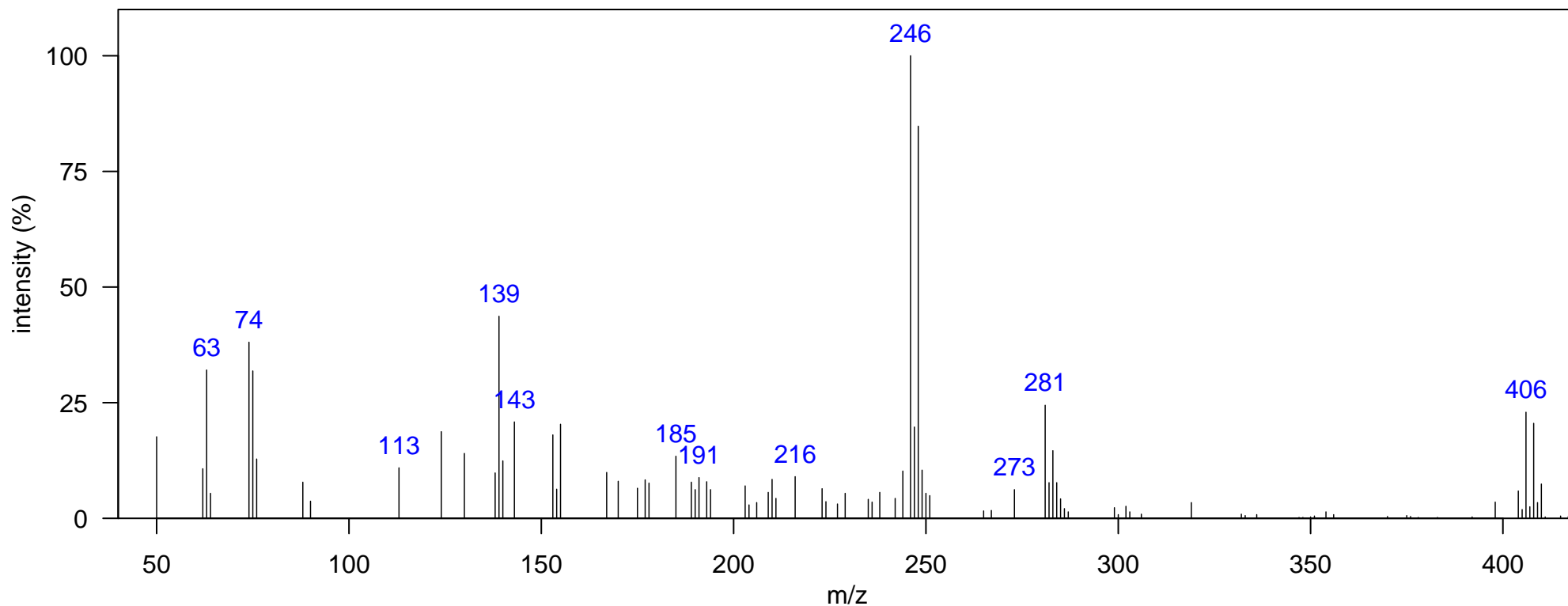
Name: BDE-17/25

Class: PBDE

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

1D RT, 2D RT (s): 1394.05, 1.452  
Quantitative Ion m/z: 406  
Atlantic Lib: polybrominated diphenyl ether 3Br

Elemental Formula: C<sub>12</sub>H<sub>7</sub>Br<sub>3</sub>O  
Source: anthropogenic  
Identification: Authentic MS RT



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



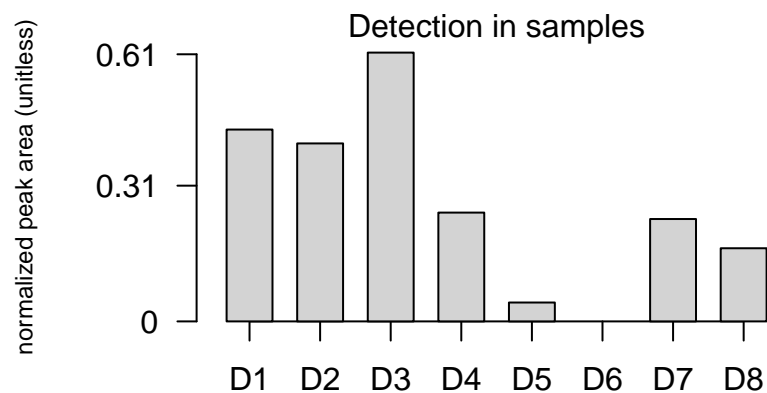
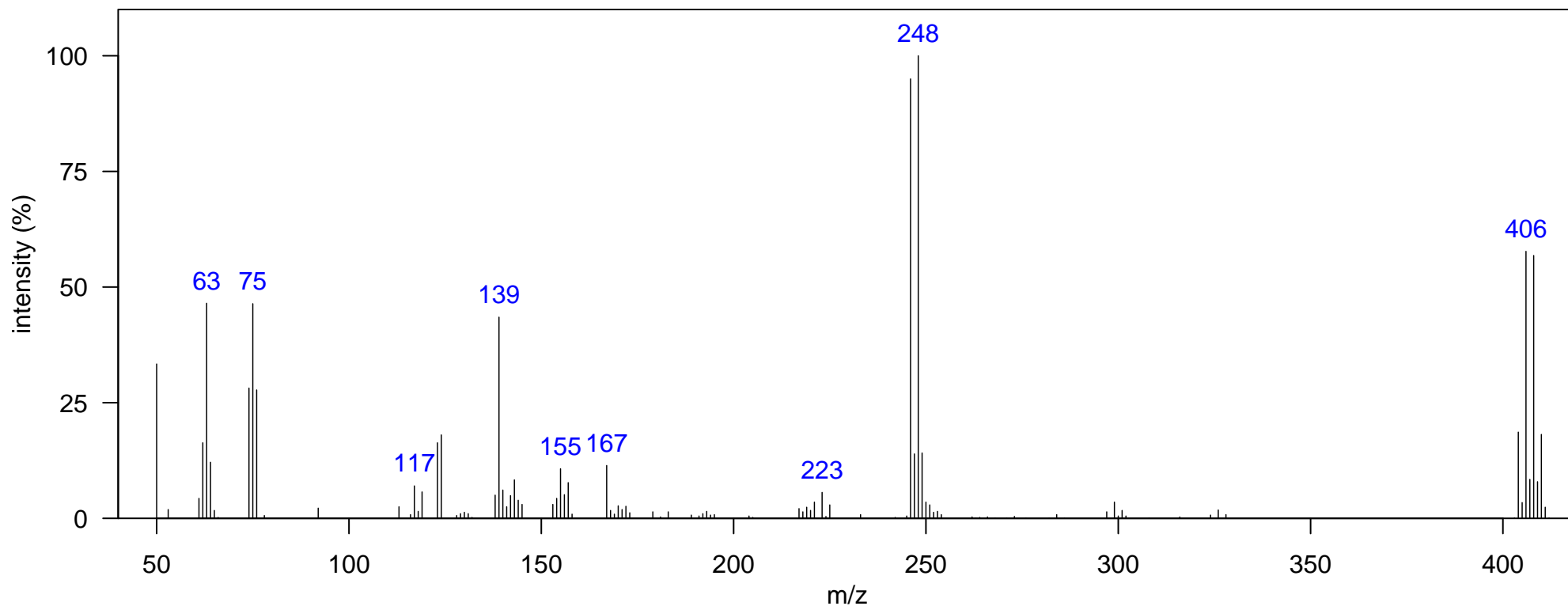
Name: BDE-28/33

Class: PBDE

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

1D RT, 2D RT (s): 1411.54, 1.419  
Quantitative Ion m/z: 406  
Atlantic Lib: polybrominated diphenyl ether 3Br

Elemental Formula: C<sub>12</sub>H<sub>7</sub>Br<sub>3</sub>O  
Source: anthropogenic  
Identification: Authentic MS RT



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

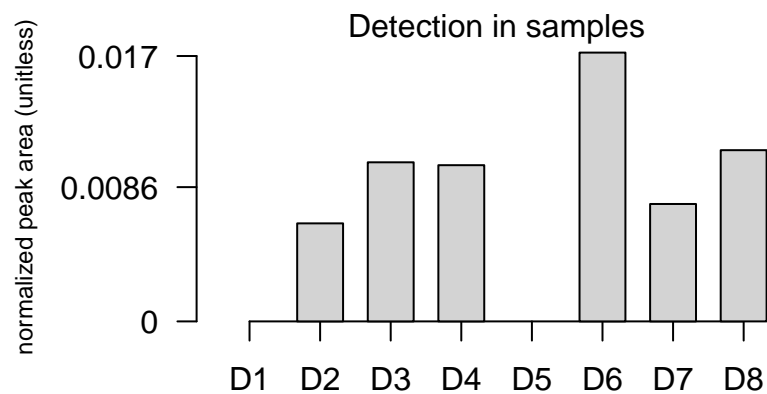
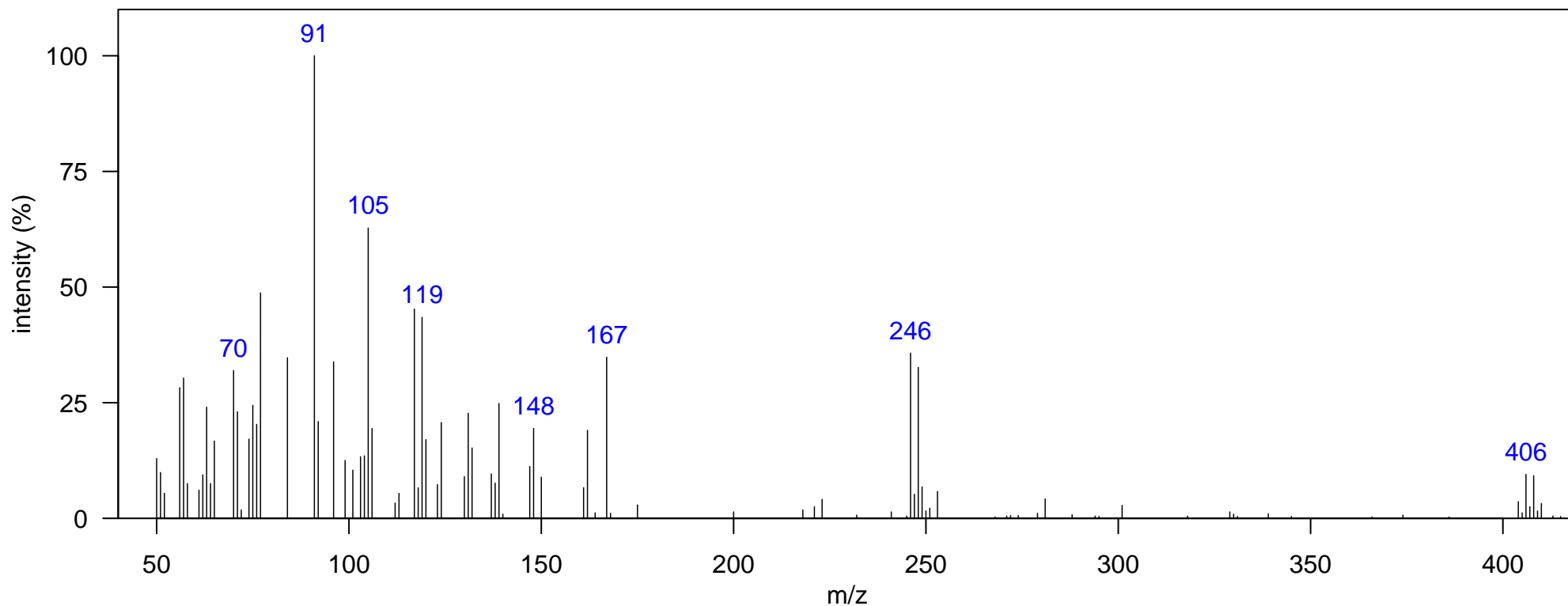
Name: BDE 3Br 1

Class: PBDE

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1516.48, 1.221  
Quantitative Ion m/z: 406  
Atlantic Lib: polybrominated diphenyl ether 3Br

Elemental Formula: C<sub>12</sub>H<sub>7</sub>Br<sub>3</sub>O  
Source: anthropogenic  
Identification: Authentic MS



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

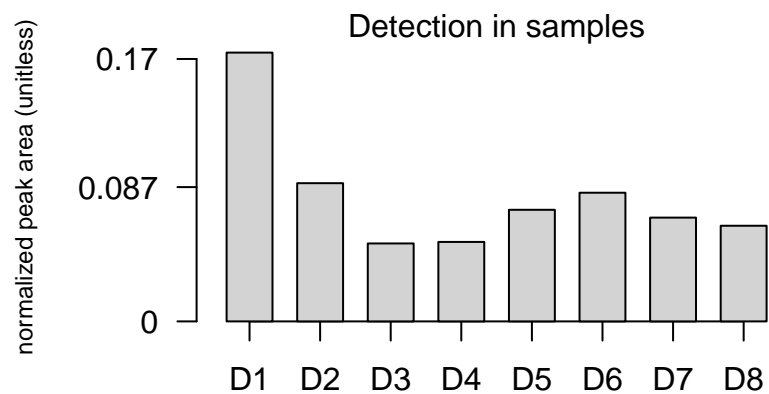
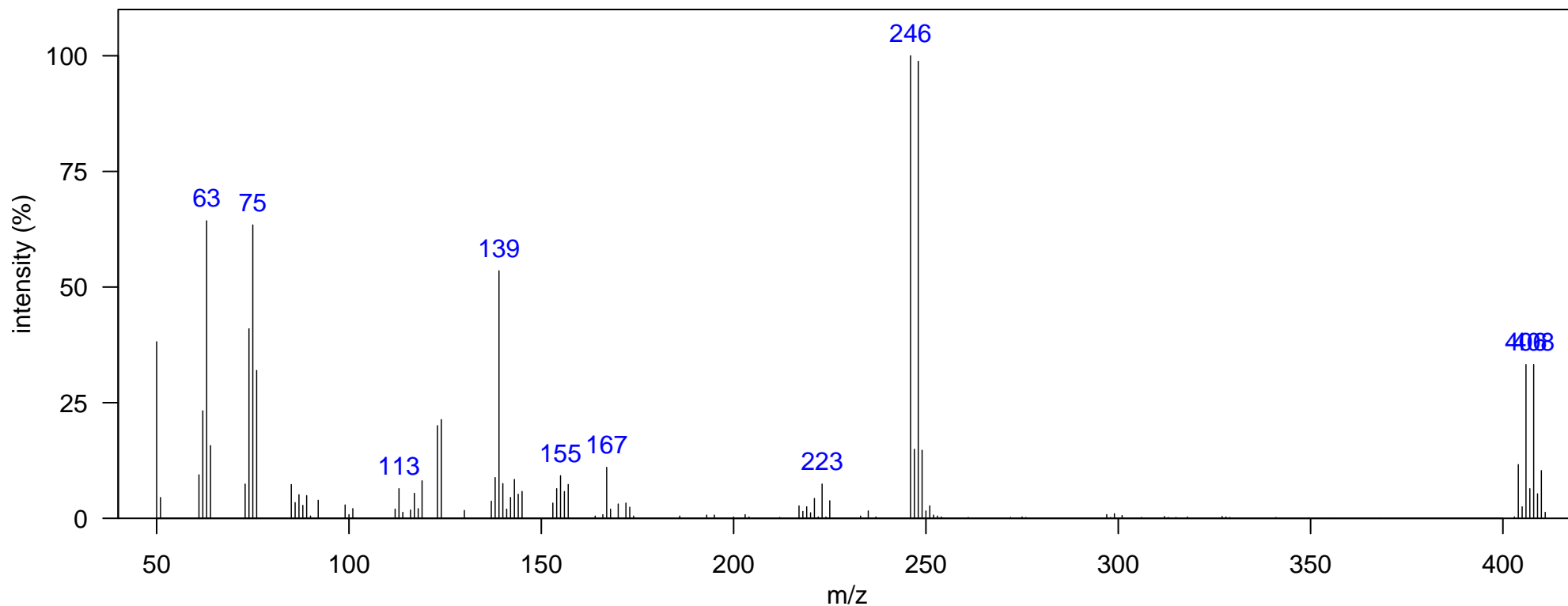
Name: BDE 3Br 2

Class: PBDE

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

1D RT, 2D RT (s): 1533.97, 1.214  
Quantitative Ion m/z: 406  
Atlantic Lib: polybrominated diphenyl ether 3Br

Elemental Formula: C<sub>12</sub>H<sub>7</sub>Br<sub>3</sub>O  
Source: anthropogenic  
Identification: Authentic MS



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,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

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

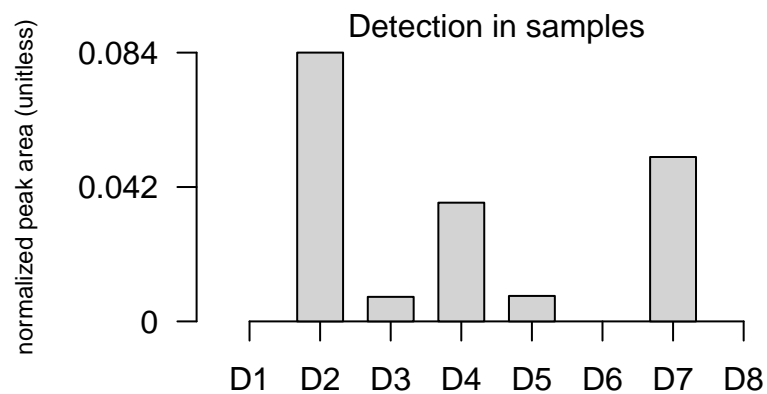
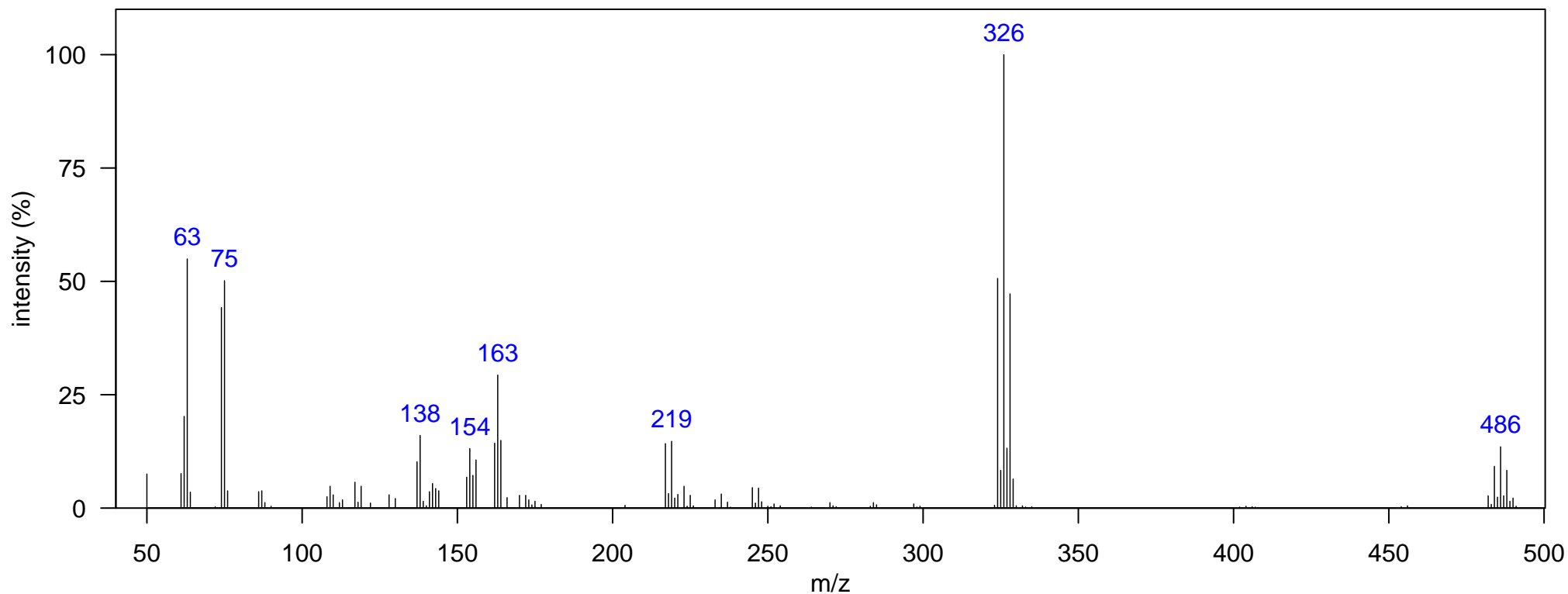
Quantitative Ion m/z: 486

Atlantic Lib: polybrominated diphenyl ether 4Br

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

Source: anthropogenic

Identification: Authentic MS RT



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,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

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

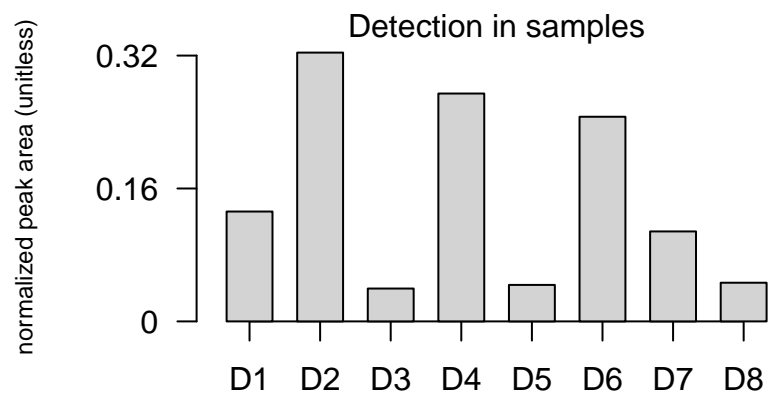
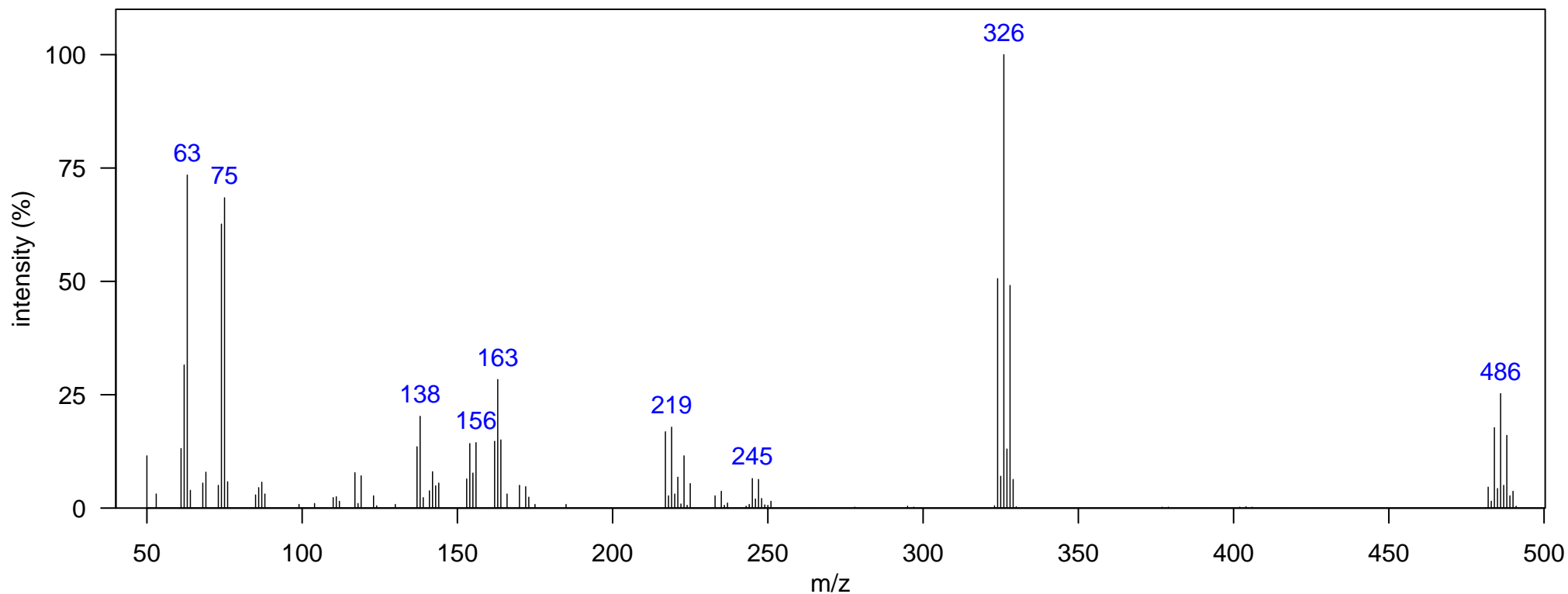
Quantitative Ion m/z: 486

Atlantic Lib: polybrominated diphenyl ether 4Br

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

Source: anthropogenic

Identification: Authentic MS RT



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,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

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

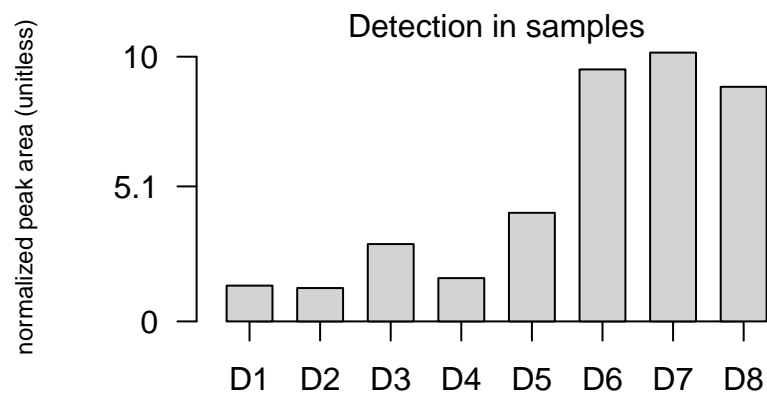
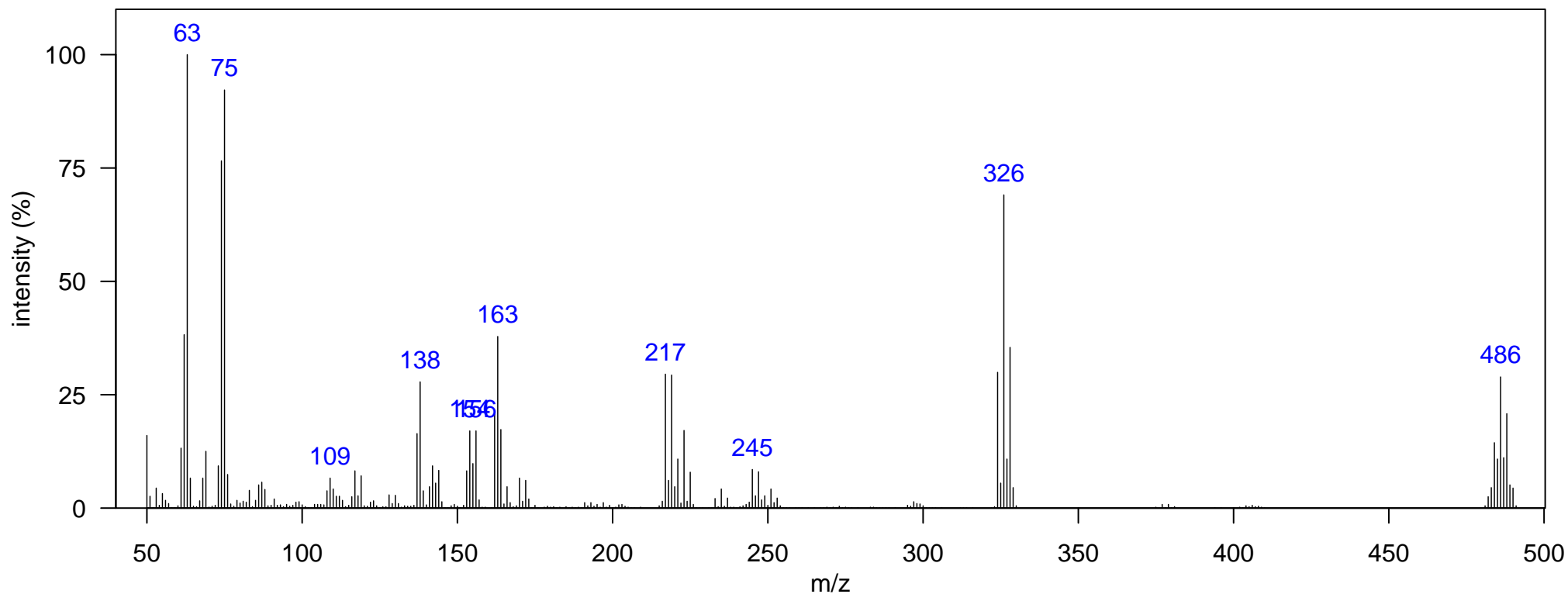
Quantitative Ion m/z: 486

Atlantic Lib: polybrominated diphenyl ether 4Br

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

Source: anthropogenic

Identification: Authentic MS RT



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,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

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

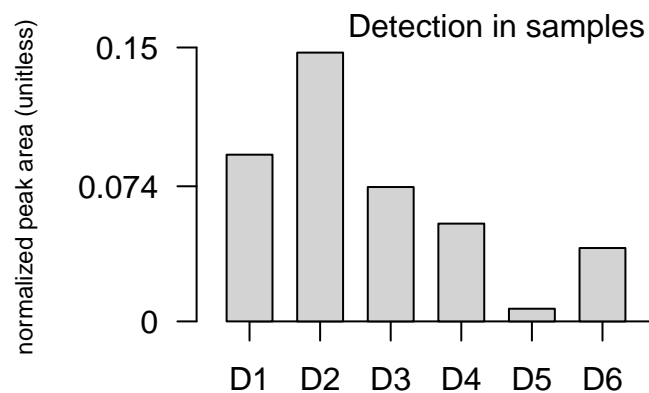
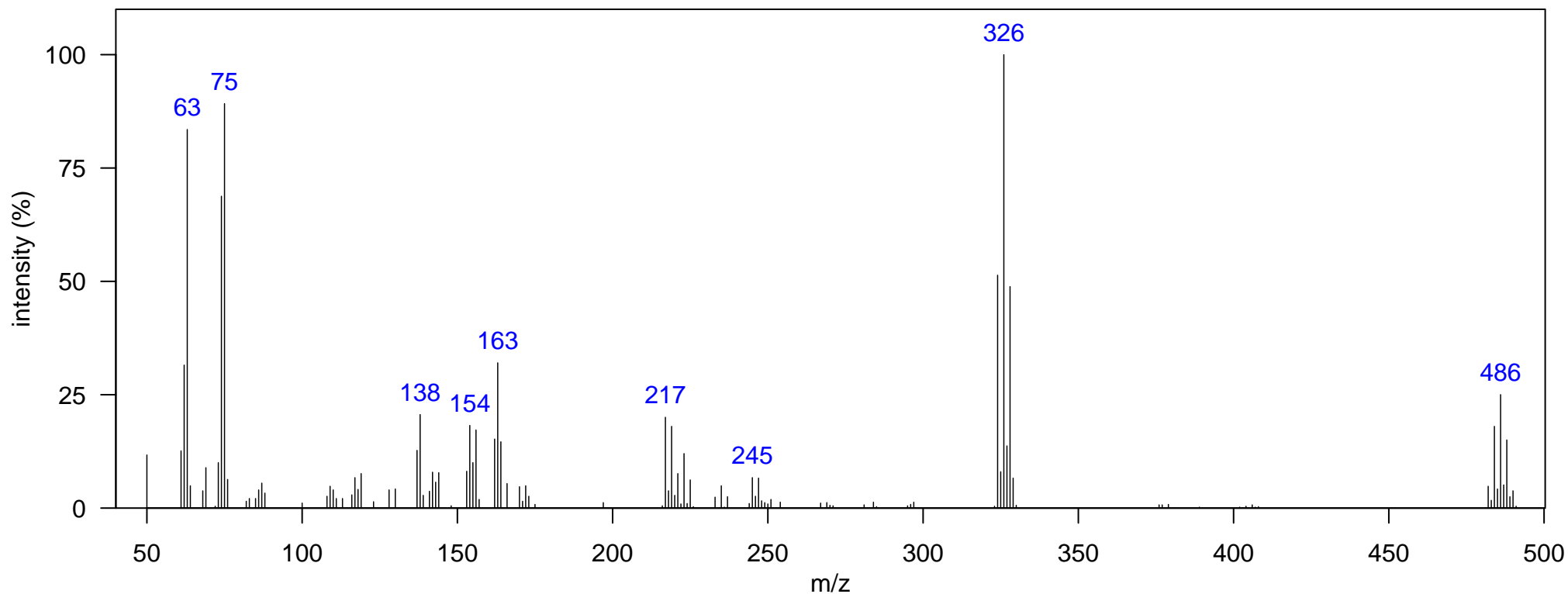
Quantitative Ion m/z: 486

Atlantic Lib: polybrominated diphenyl ether 4Br

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

Source: anthropogenic

Identification: Authentic MS RT



m/z [Fragment]

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

482 M<sup>+</sup>

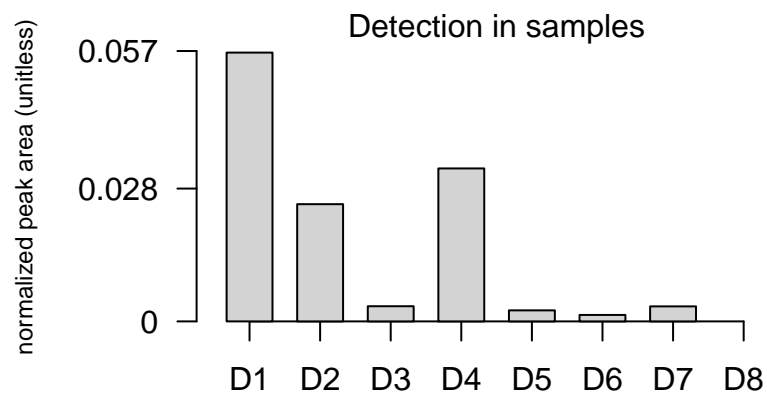
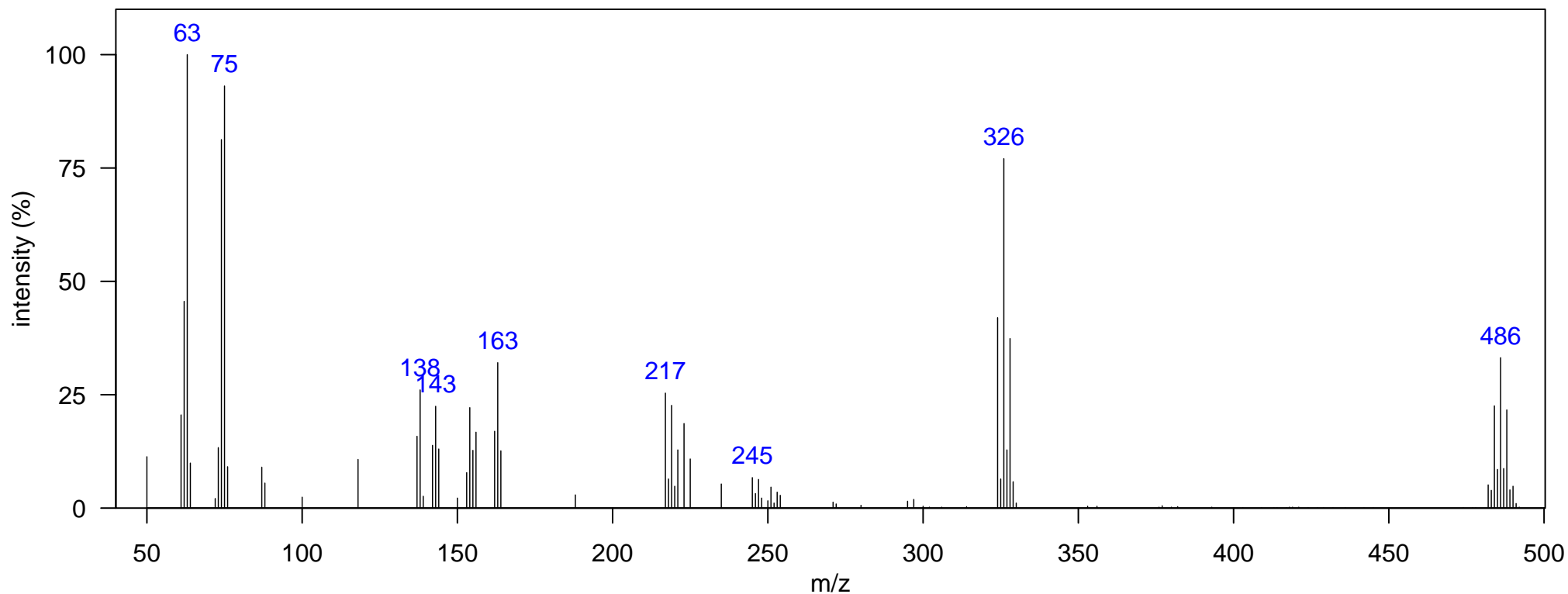
Name: BDE 4Br 1

Class: PBDE

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

1D RT, 2D RT (s): 1642.4, 1.597  
Quantitative Ion m/z: 486  
Atlantic Lib: polybrominated diphenyl ether 4Br

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



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



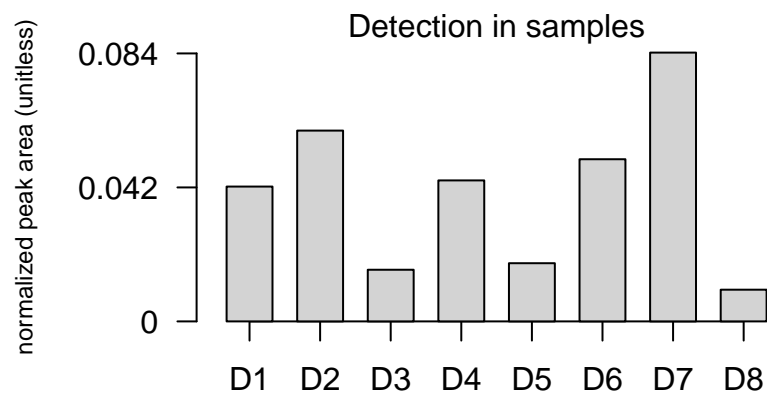
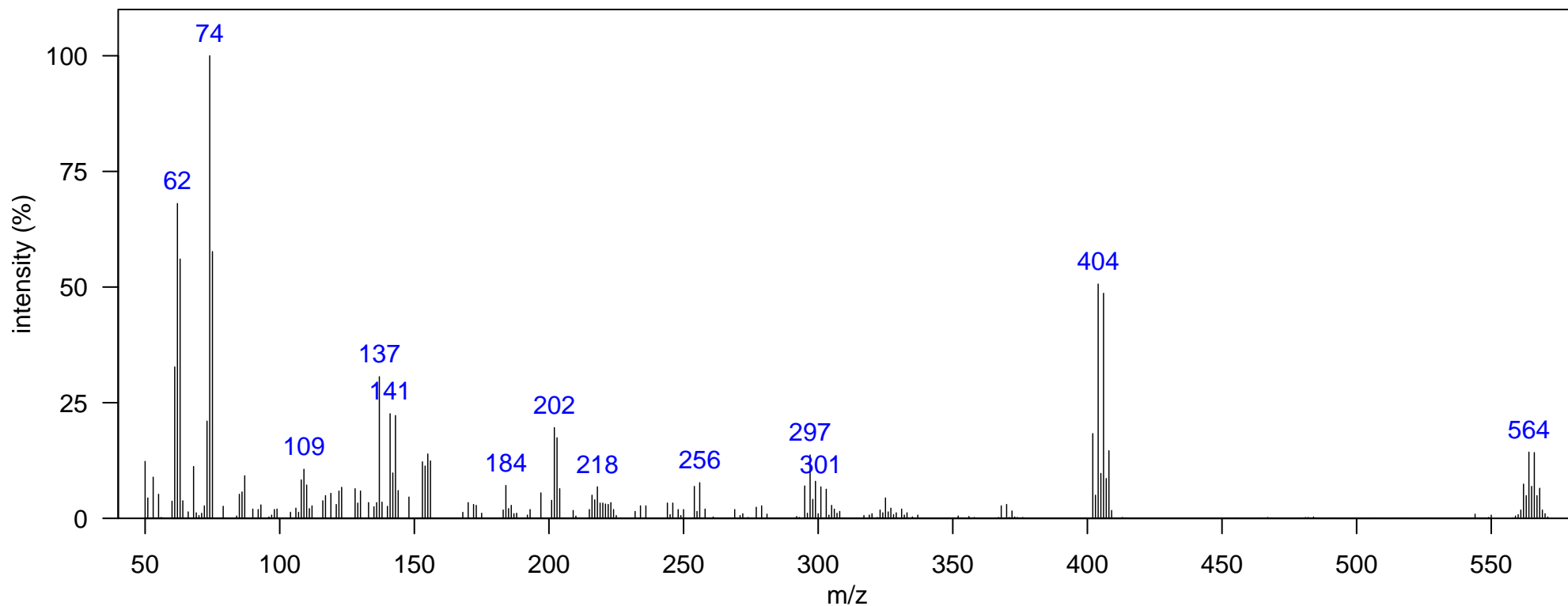
Name: BDE 5Br 1

Class: PBDE

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1593.43, 1.881  
Quantitative Ion m/z: 564  
Atlantic Lib: polybrominated diphenyl ether 5Br

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>O  
Source: anthropogenic  
Identification: Authentic MS



m/z [Fragment]

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

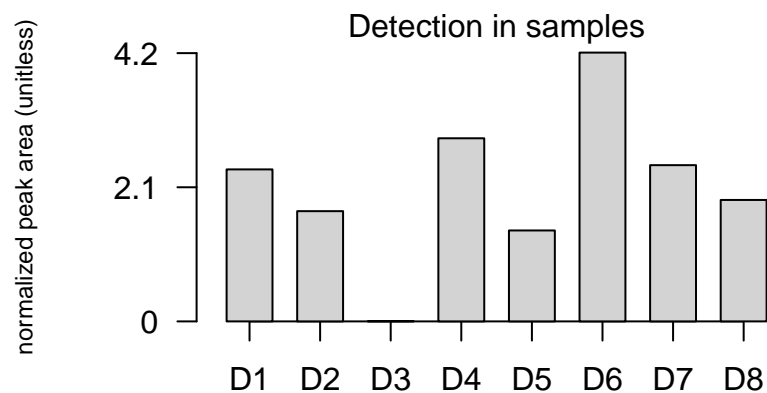
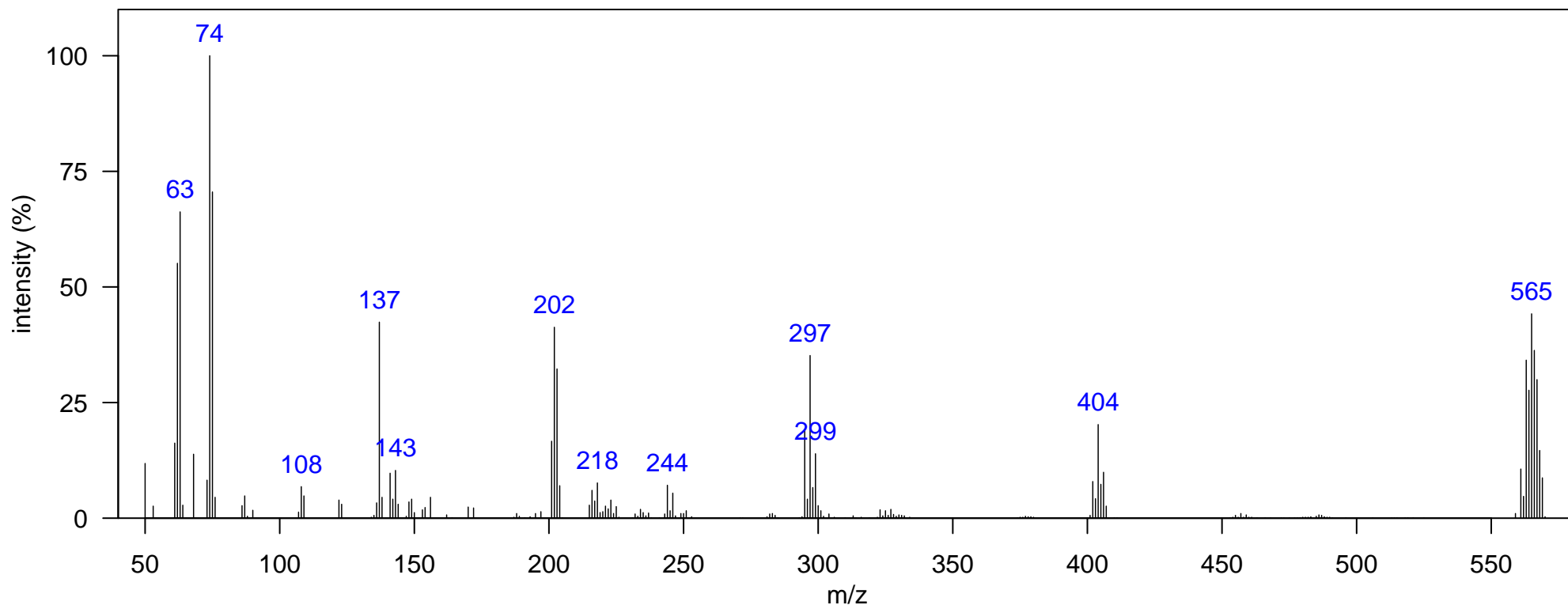
Name: BDE-100

Class: PBDE

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

1D RT, 2D RT (s): 1642.4, 2.119  
Quantitative Ion m/z: 564  
Atlantic Lib: polybrominated diphenyl ther 5Br

Elemental Formula: C<sub>12</sub>H<sub>5</sub>Br<sub>5</sub>O  
Source: anthropogenic  
Identification: Authentic MS RT



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,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

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

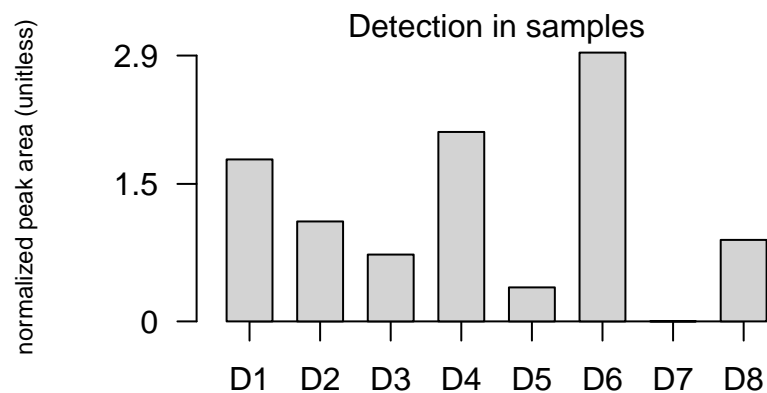
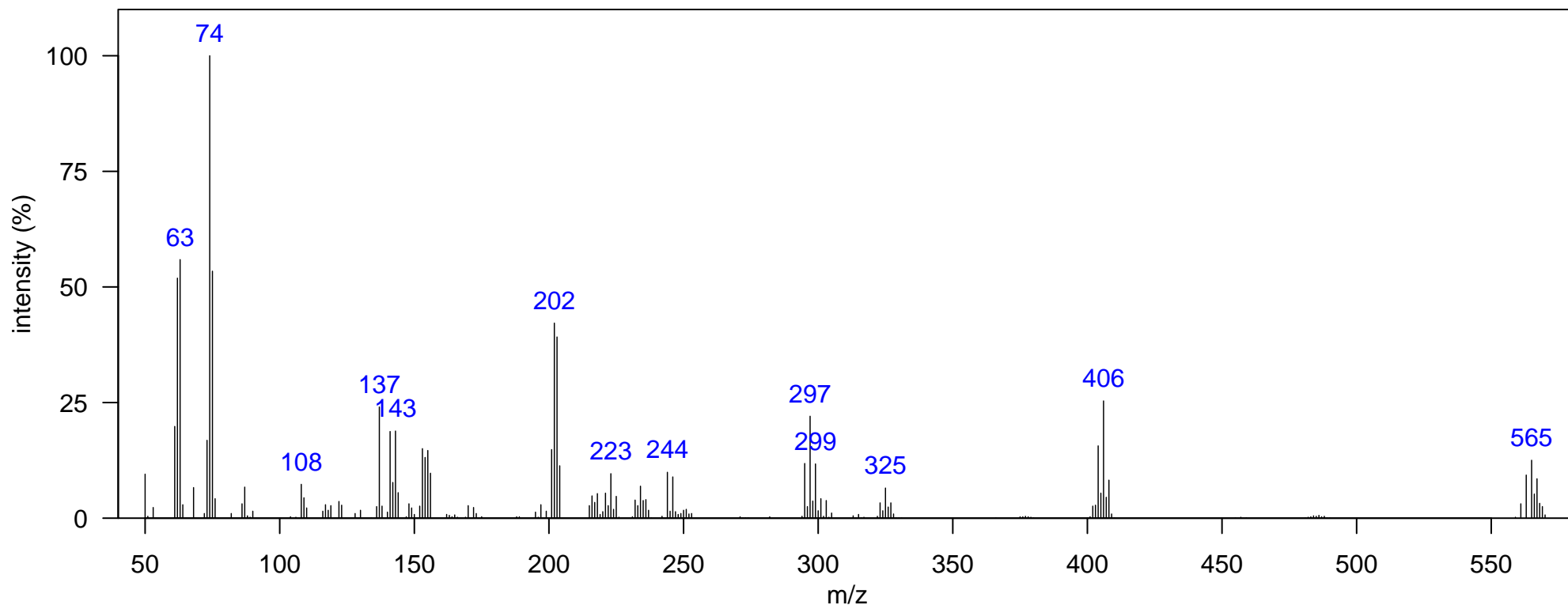
Quantitative Ion m/z: 564

Atlantic Lib: polybrominated diphenyl ether 5Br

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

Source: anthropogenic

Identification: Authentic MS RT



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,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

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

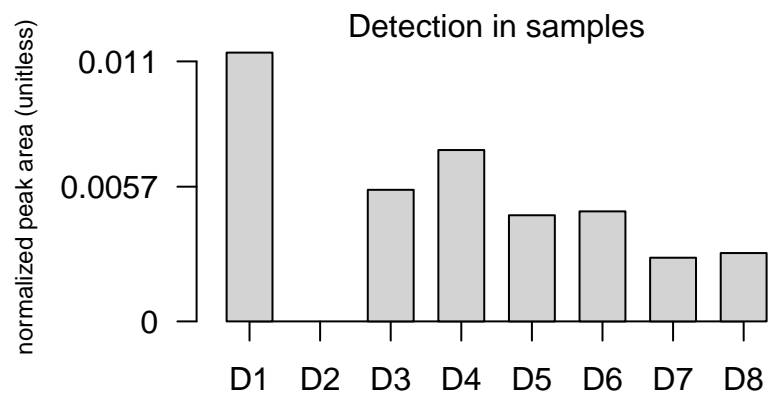
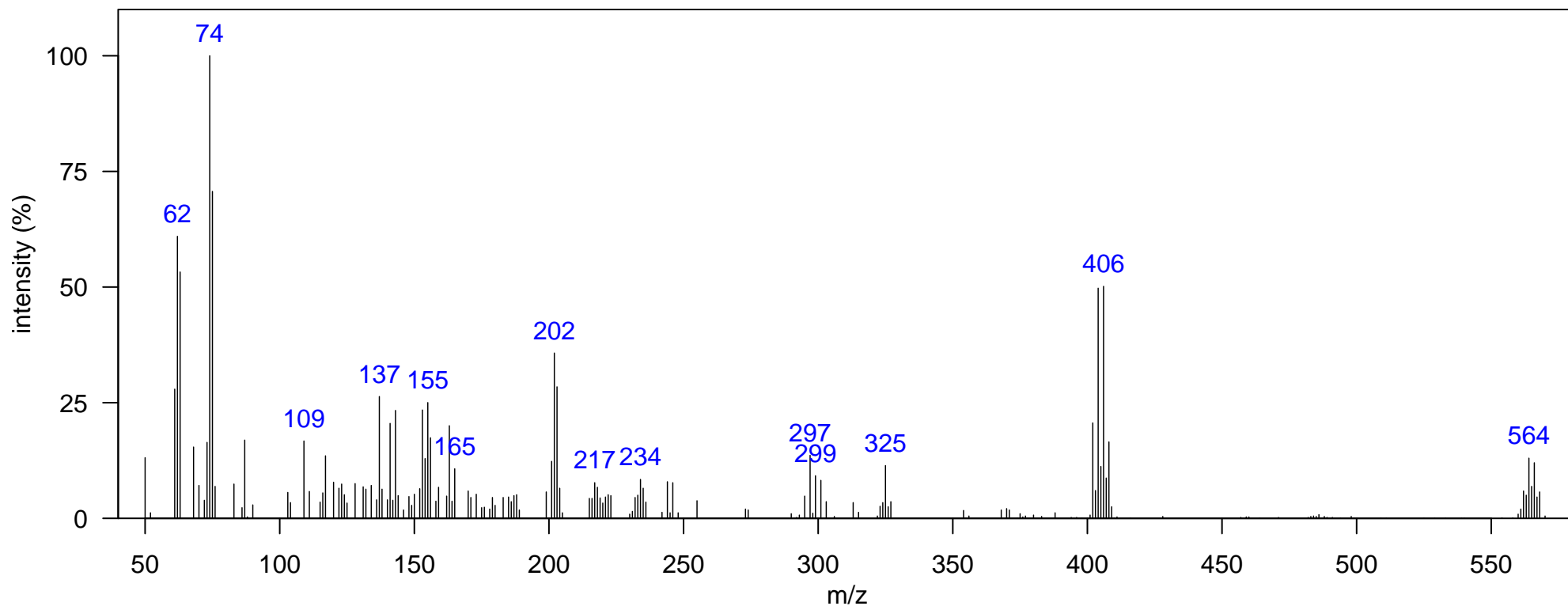
Quantitative Ion m/z: 564

Atlantic Lib: polybrominated diphenyl ether 5Br

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

Source: anthropogenic

Identification: Authentic MS RT



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,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

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

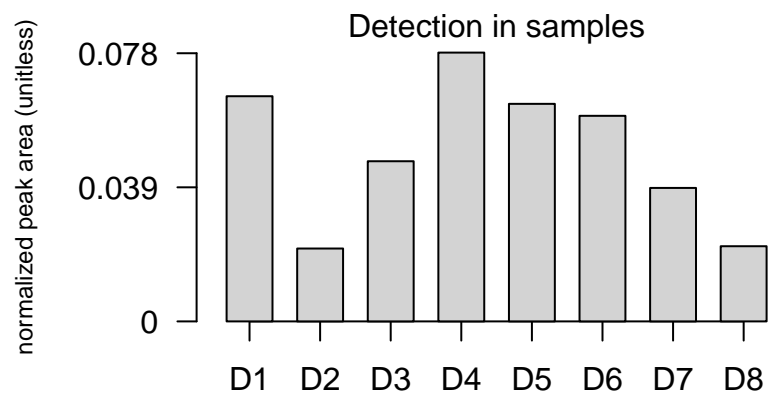
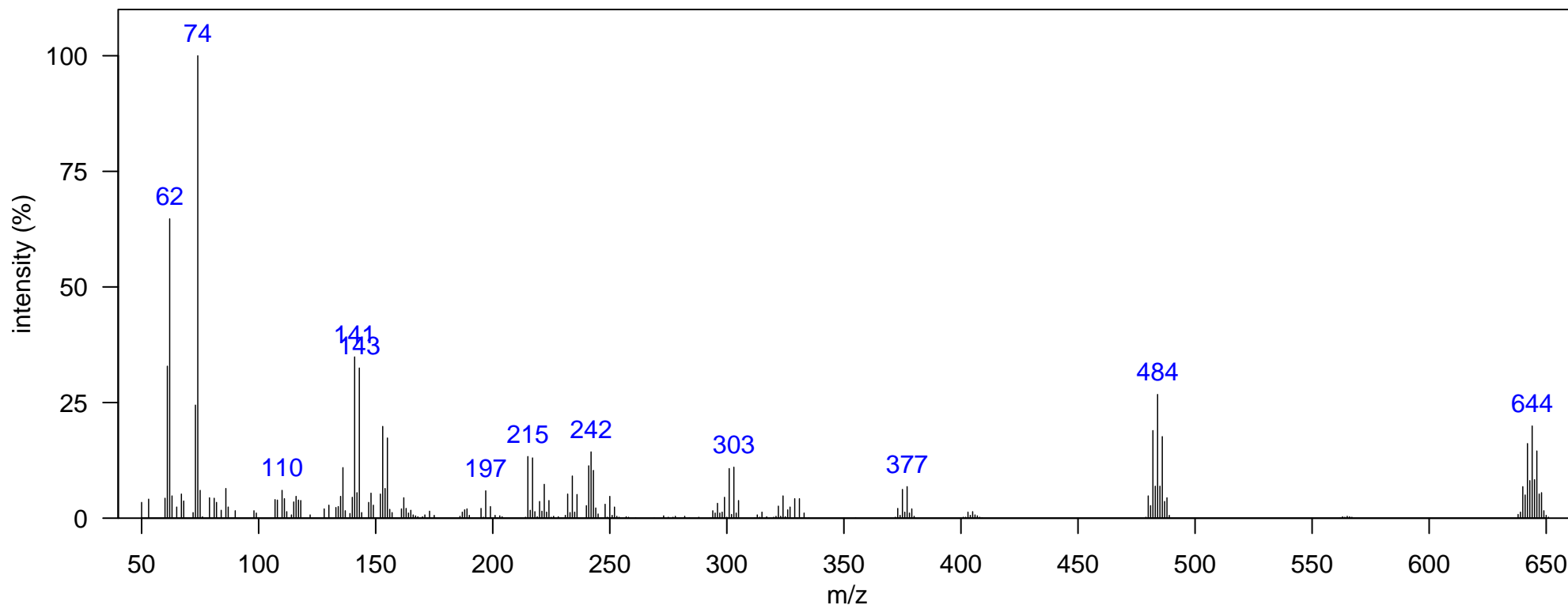
Quantitative Ion m/z: 644

Atlantic Lib: polybrominated diphenyl ether 6Br

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

Source: anthropogenic

Identification: Authentic MS RT



m/z [Fragment]

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

638 M<sup>+</sup>

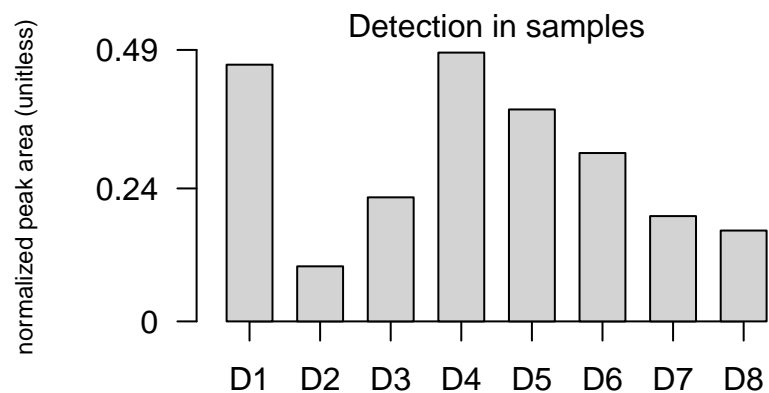
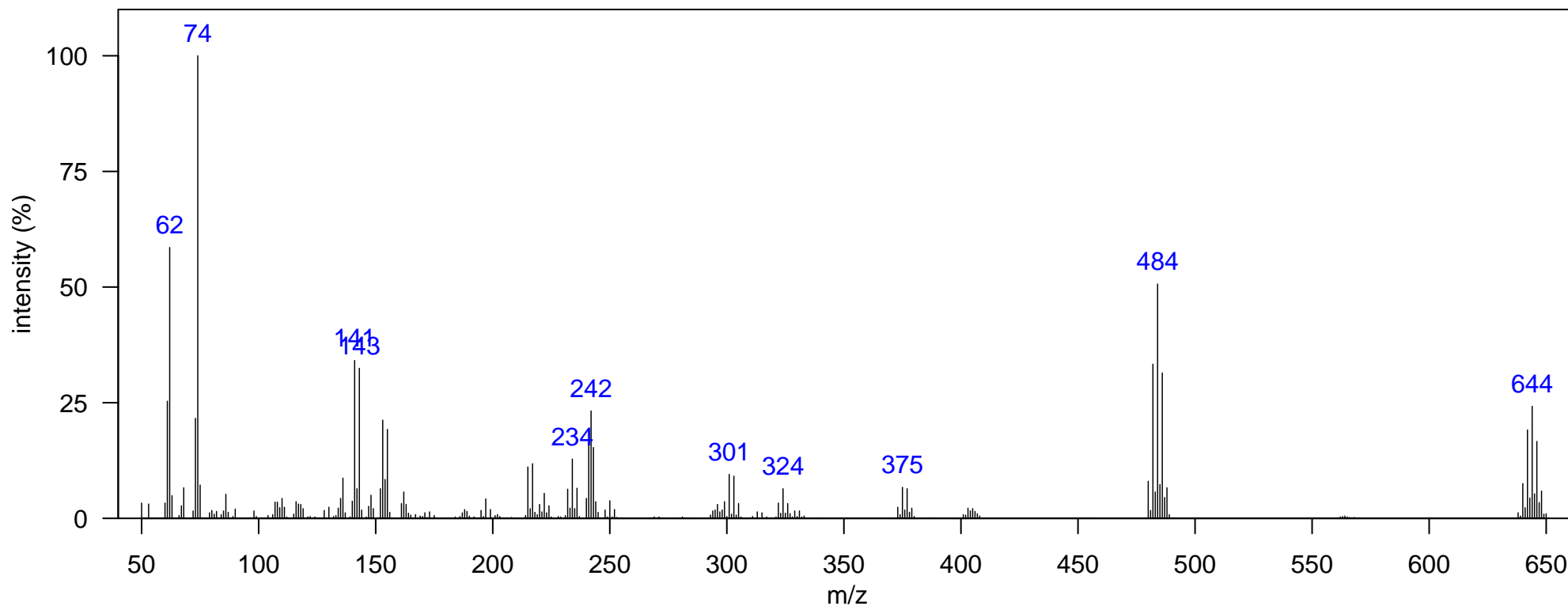
Name: BDE-154

Class: PBDE

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

1D RT, 2D RT (s): 1768.33, 2.237  
Quantitative Ion m/z: 644  
Atlantic Lib: polybrominated diphenyl ether 6Br

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



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

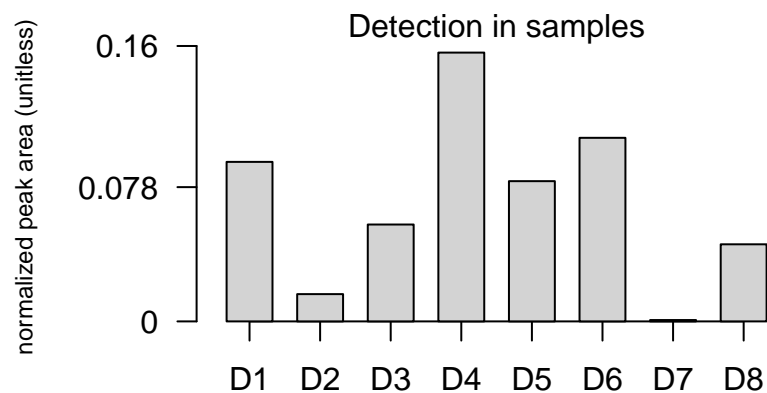
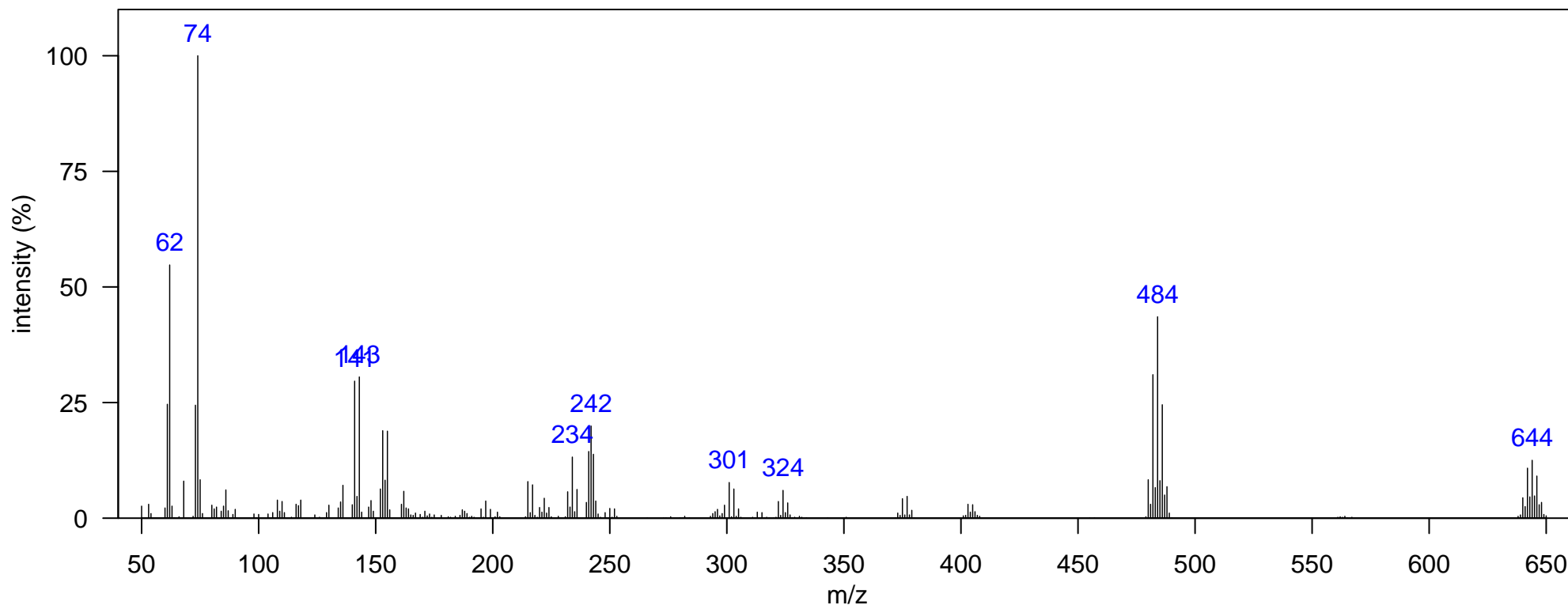
Name: BDE-153

Class: PBDE

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

1D RT, 2D RT (s): 1817.3, 2.429  
Quantitative Ion m/z: 644  
Atlantic Lib: polybrominated diphenyl ether 6Br

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



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

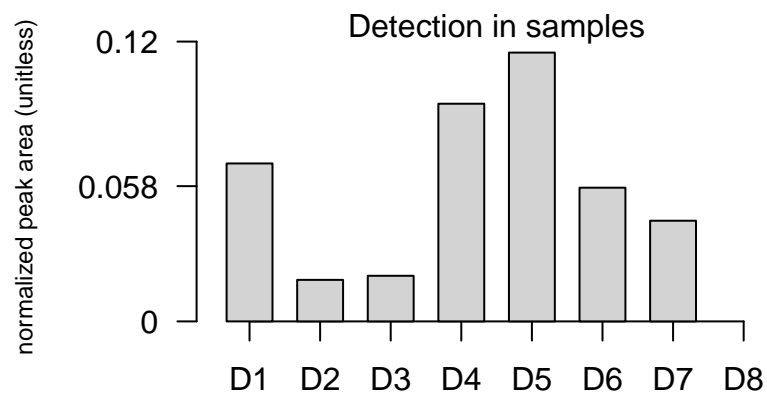
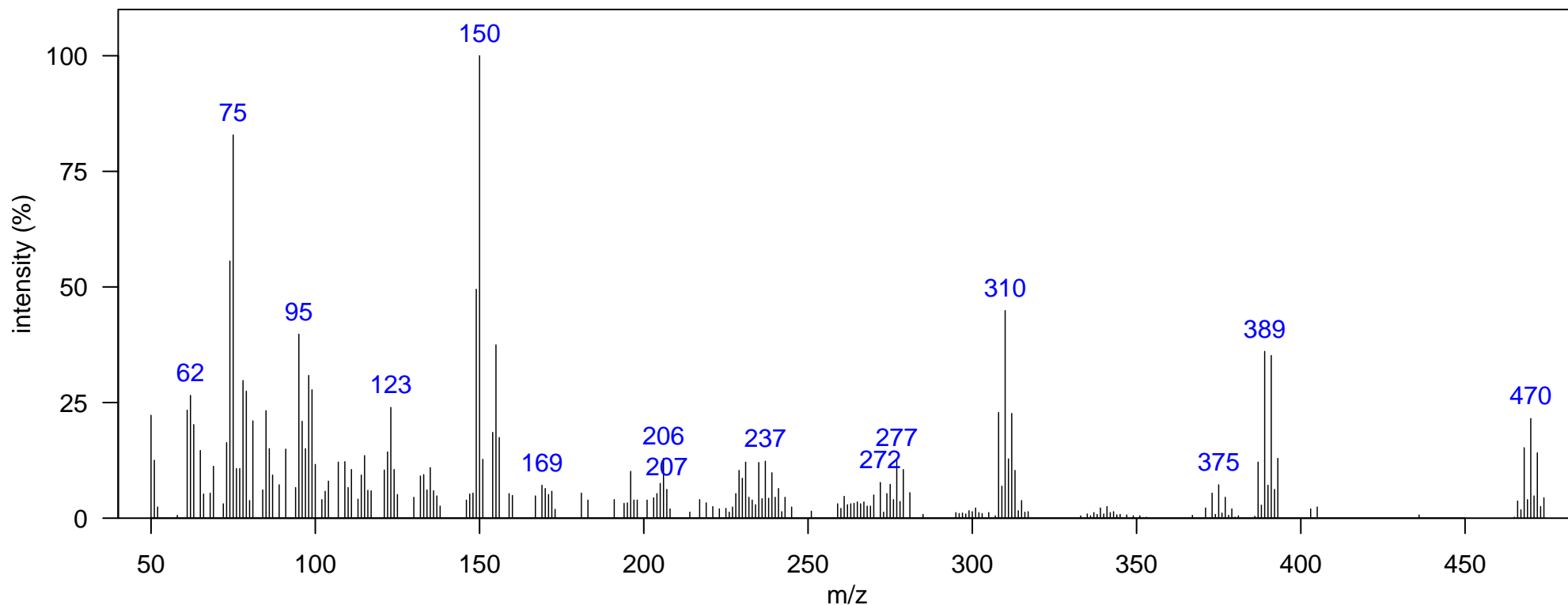
Name: BB-52

Class: PBB

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

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



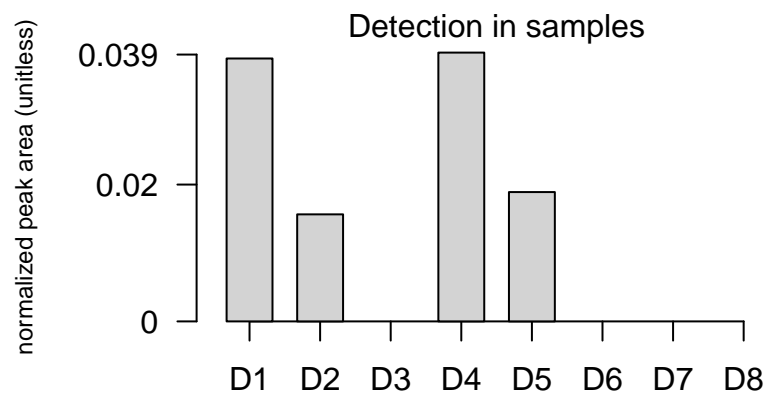
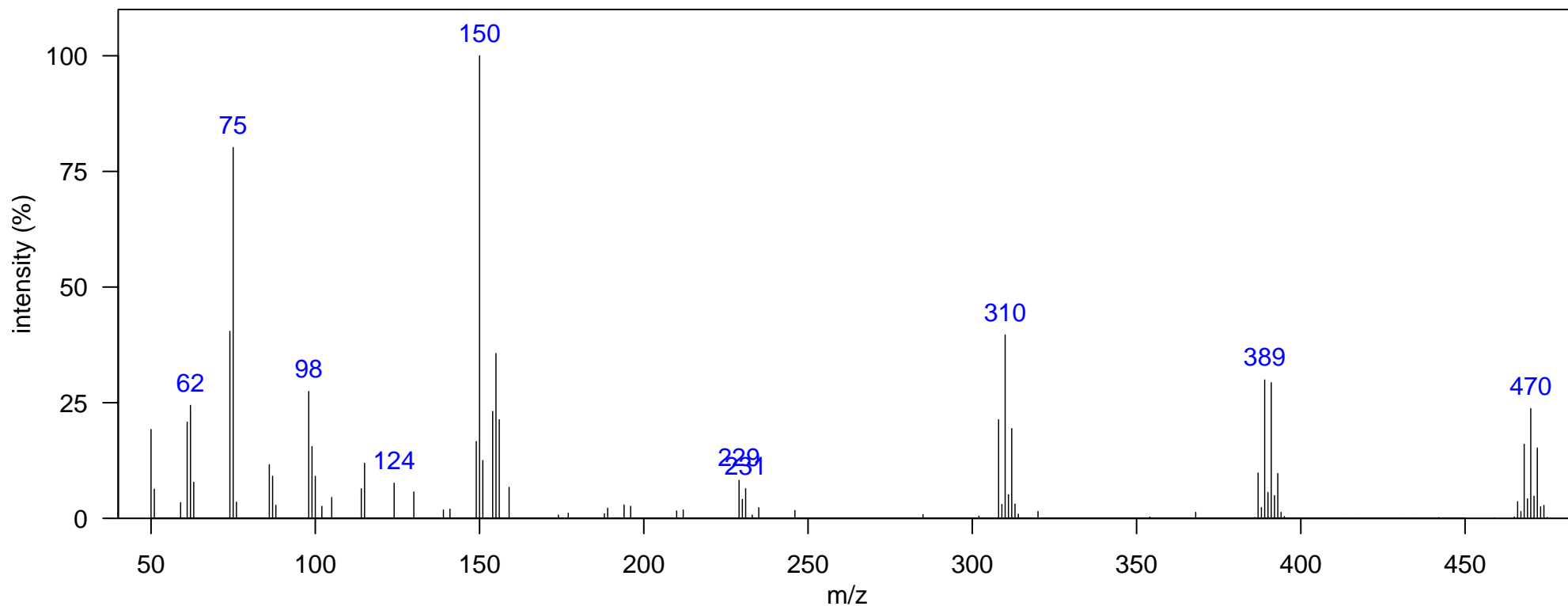
Name: BB-49

Class: PBB

Sample: SoCal dolphin blubber D1,  
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>

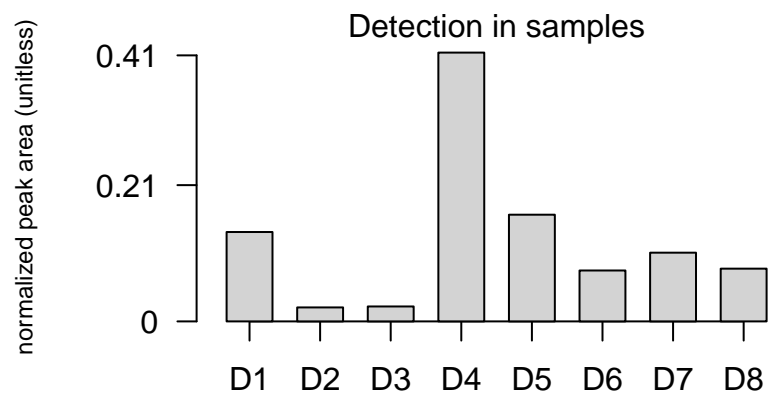
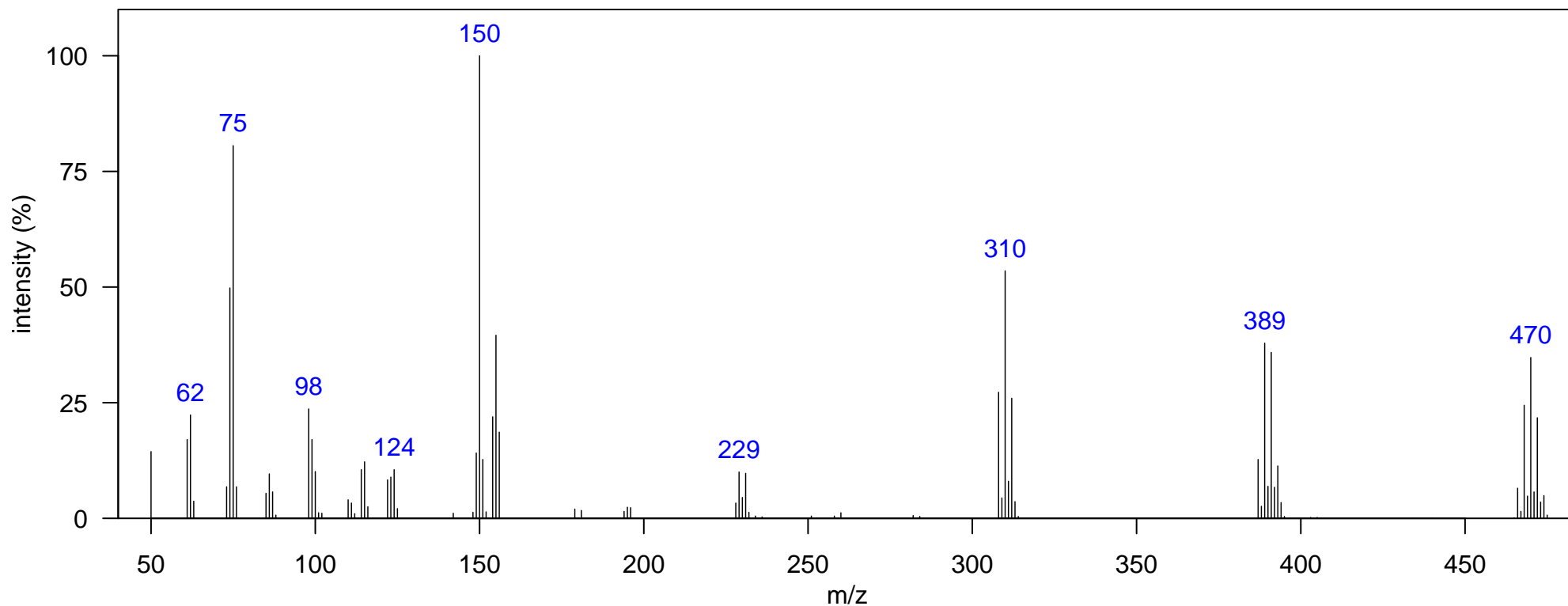
Name: BB 4Br 1

Class: PBB

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

1D RT, 2D RT (s): 1464.01, 1.492  
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: Manual-Congener Group



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

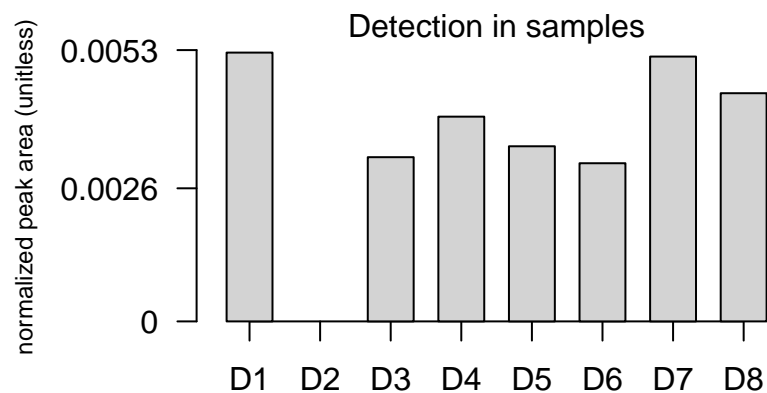
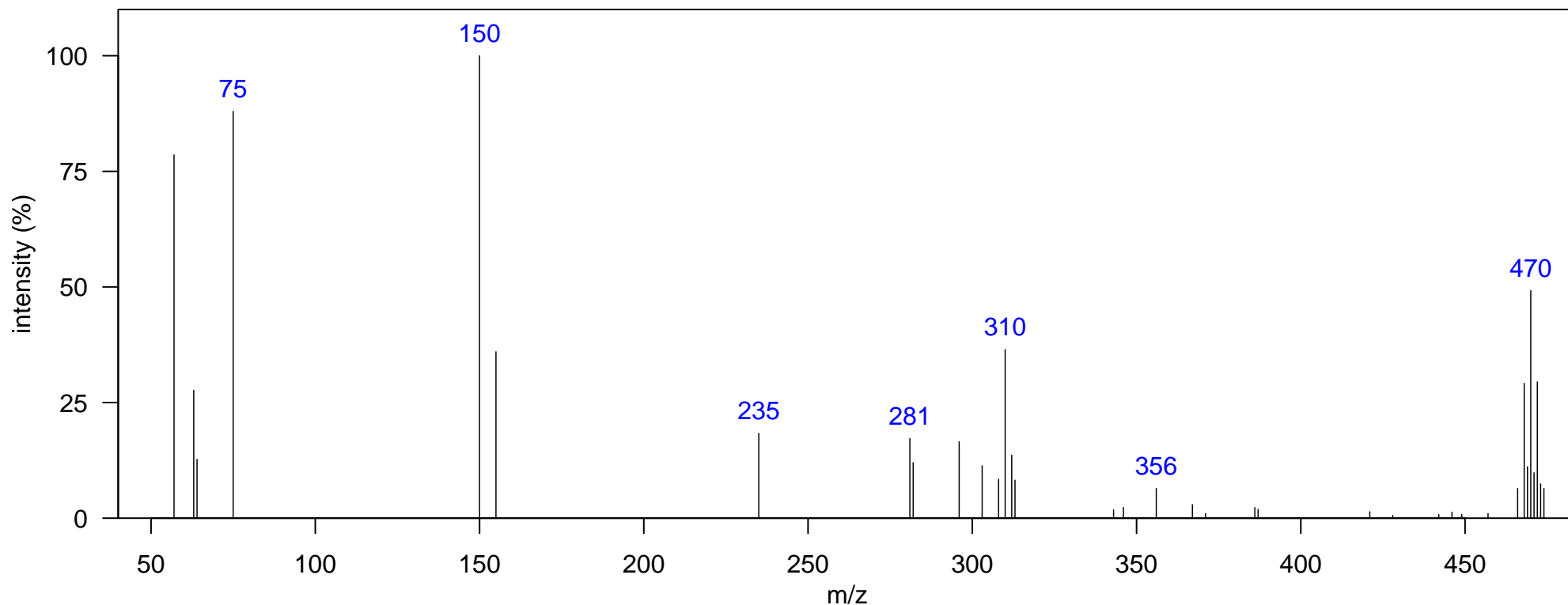
Name: BB 4Br 2

Class: PBB

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

1D RT, 2D RT (s): 1526.97, 1.657  
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: Manual-Congener Group



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

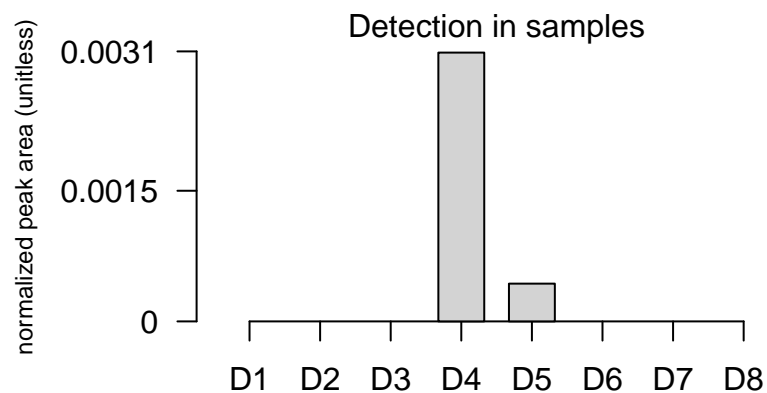
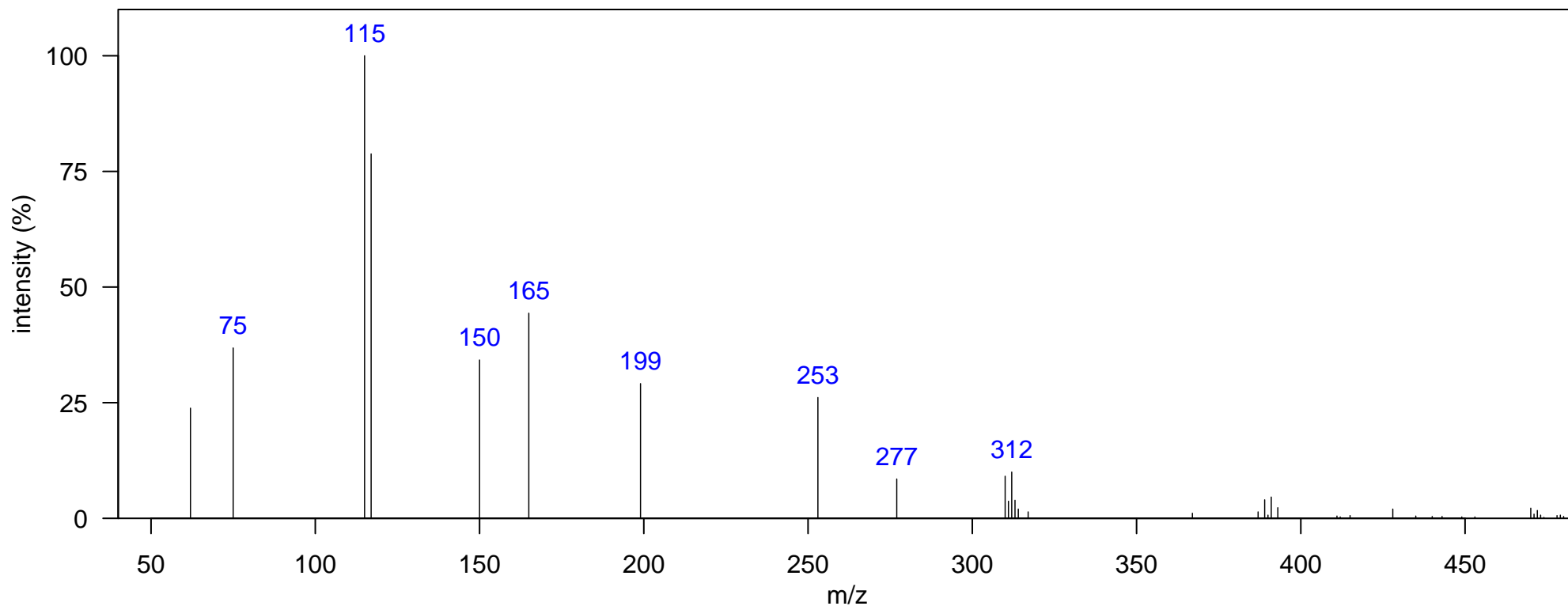
Name: BB 4Br 3

Class: PBB

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

1D RT, 2D RT (s): 1586.44, 1.366  
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: Manual-Congener Group



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

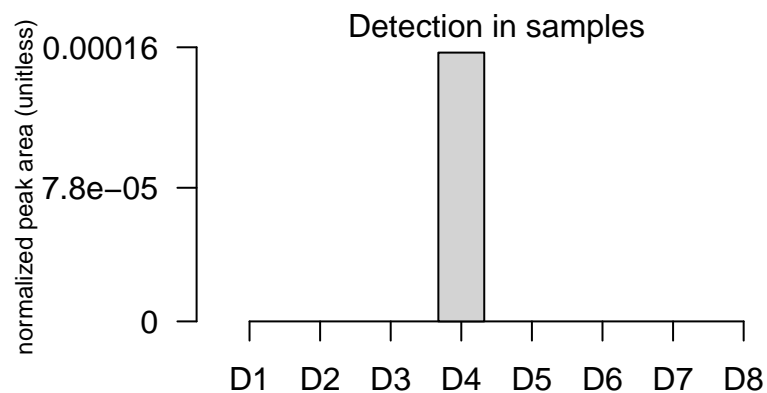
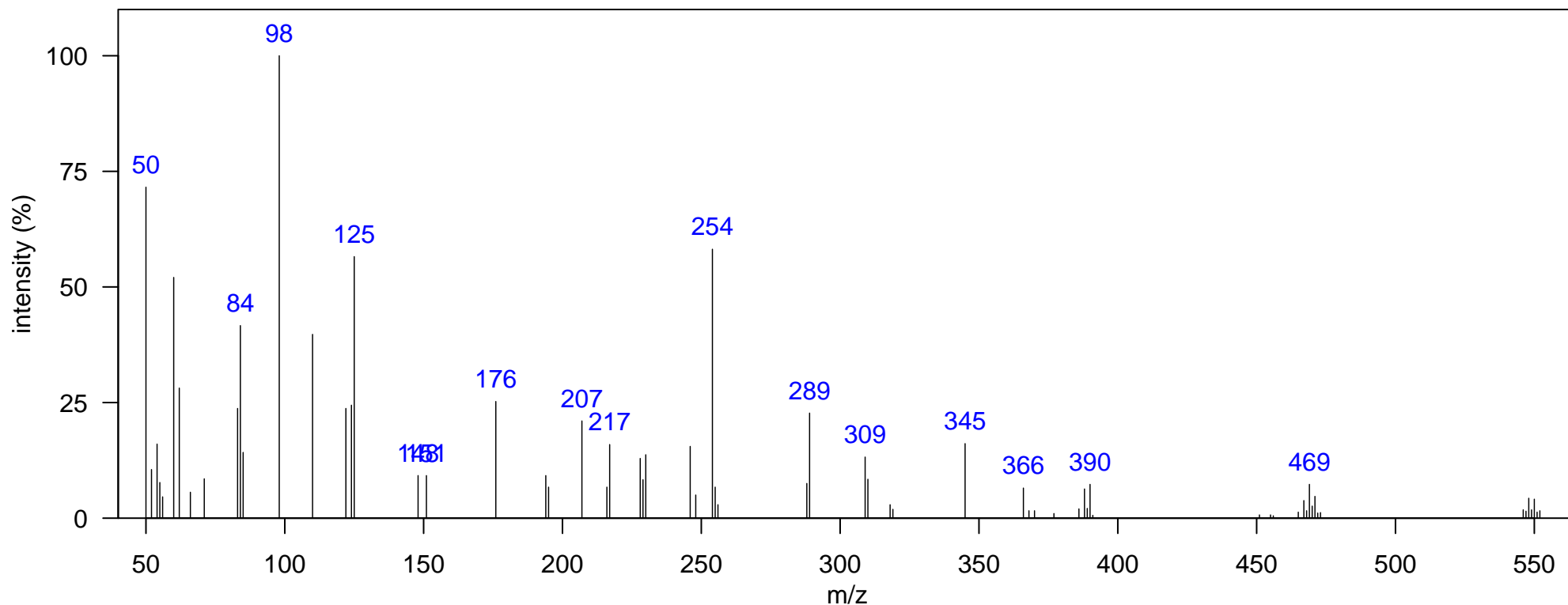
Name: BB 5Br 1

Class: PBB

Sample: SoCal dolphin blubber D4,  
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-Br <sub>2</sub> ] <sup>+</sup>
465 [M-Br] <sup>+</sup>
544 M <sup>+</sup>

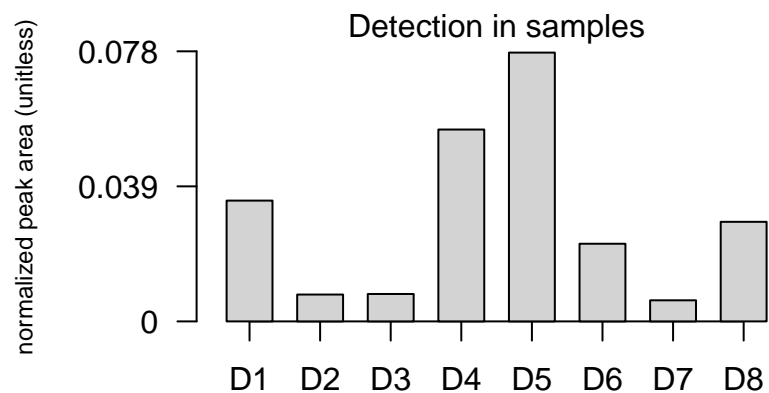
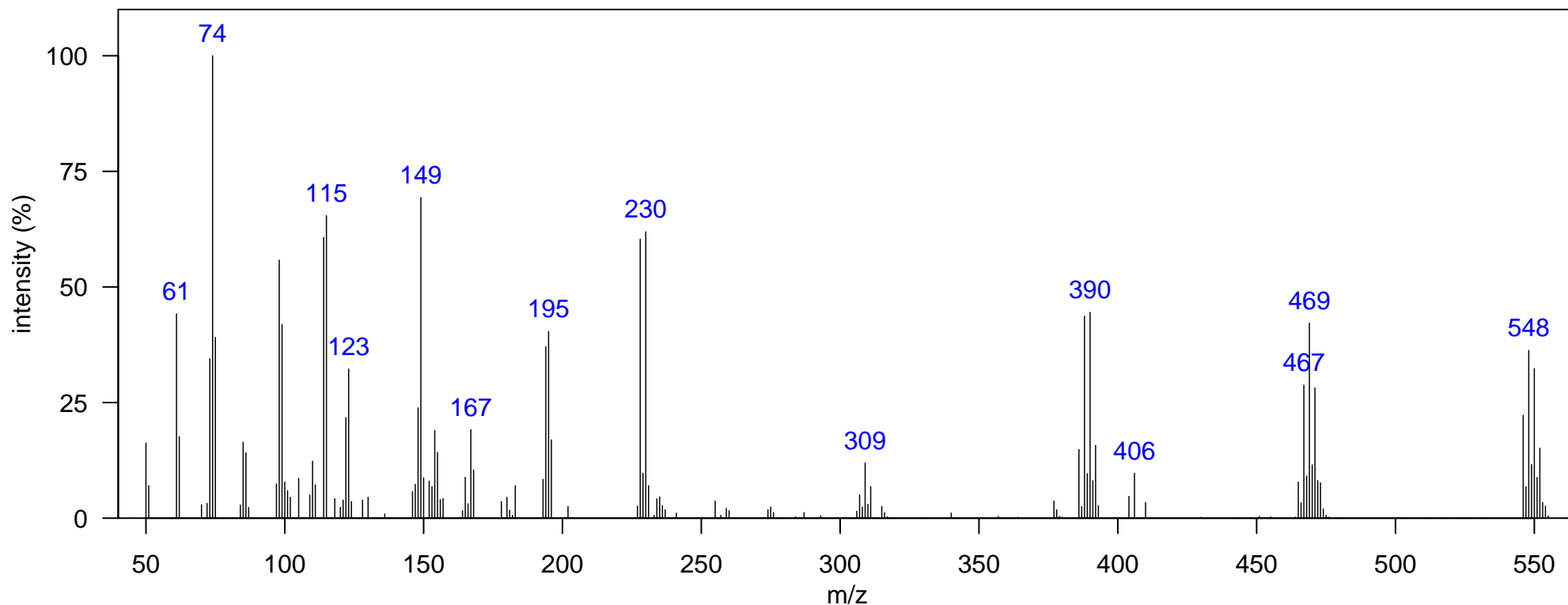
Name: BB-101

Class: PBB

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

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



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

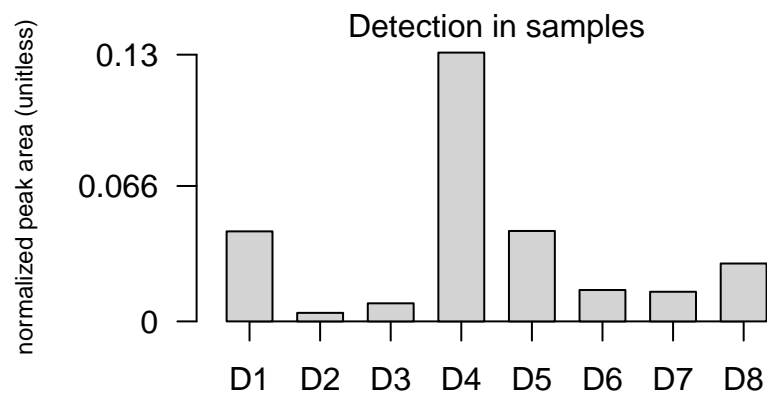
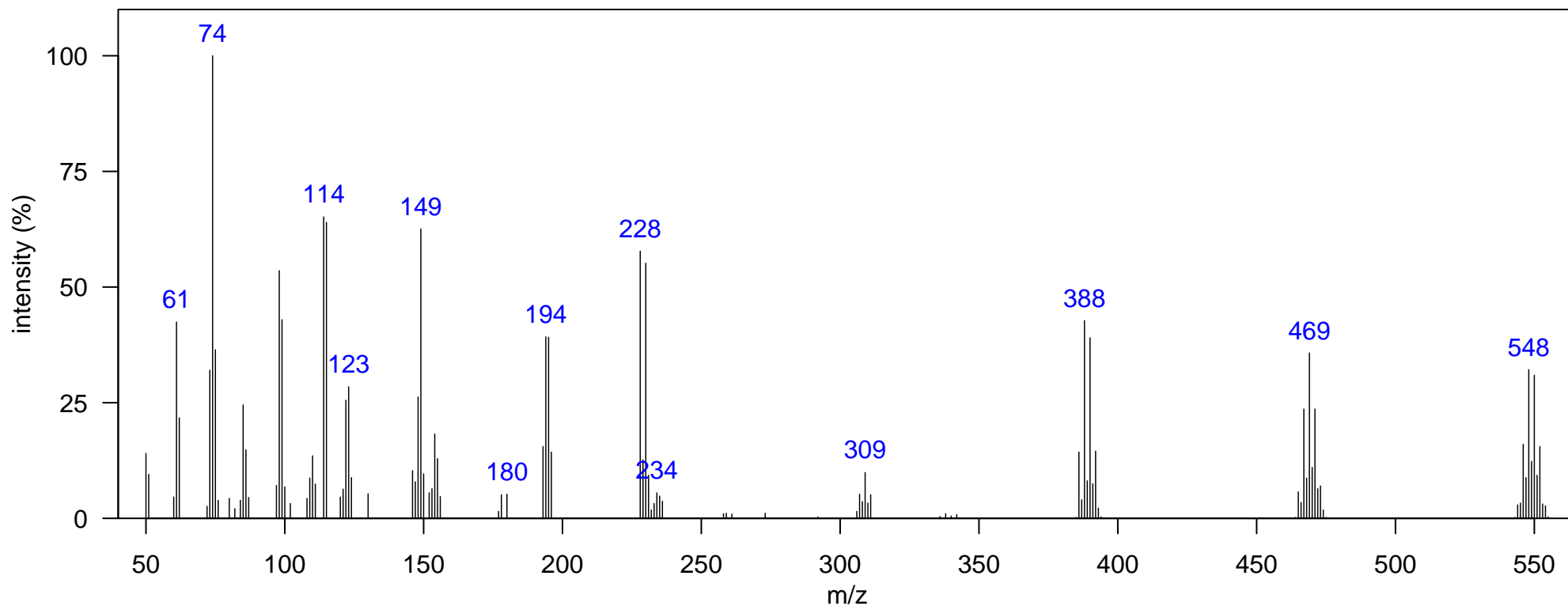
Name: BB 5Br 2

Class: PBB

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

1D RT, 2D RT (s): 1607.42, 1.927  
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-Br <sub>2</sub> ] <sup>+</sup>
465 [M-Br] <sup>+</sup>
544 M <sup>+</sup>

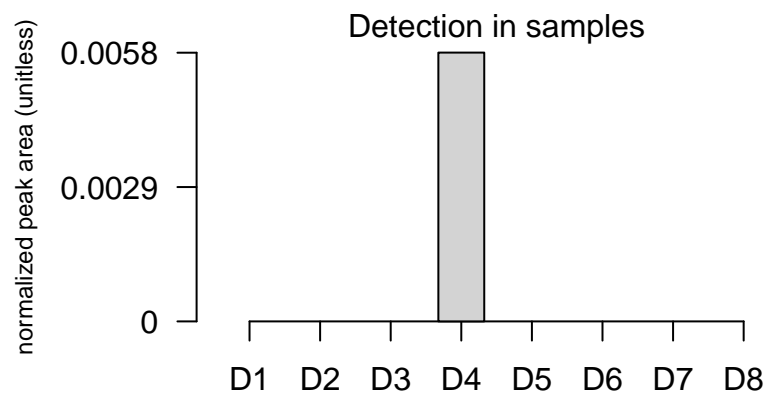
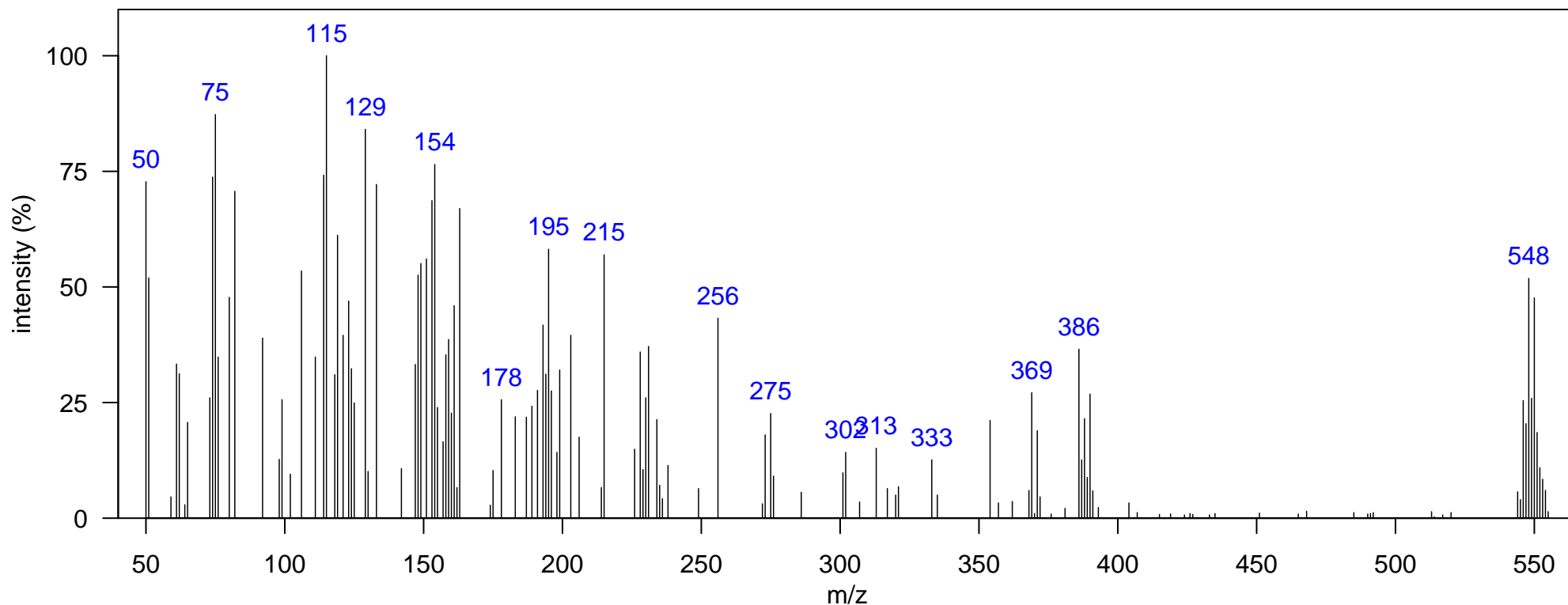
Name: BB 5Br 3

Class: PBB

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

1D RT, 2D RT (s): 1694.87, 2.218  
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-Br <sub>2</sub> ] <sup>+</sup>
465 [M-Br] <sup>+</sup>
544 M <sup>+</sup>



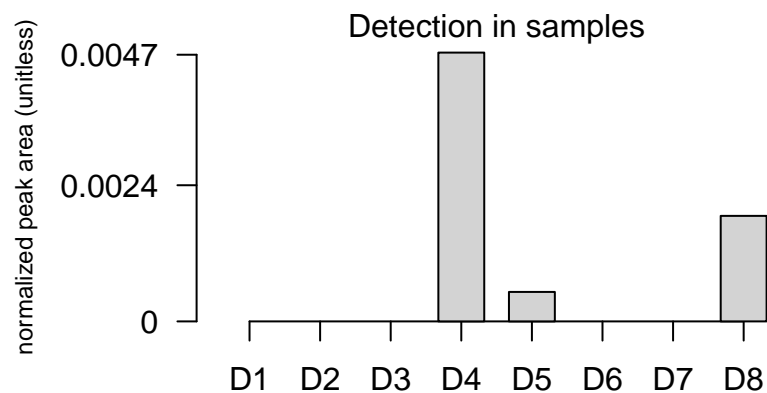
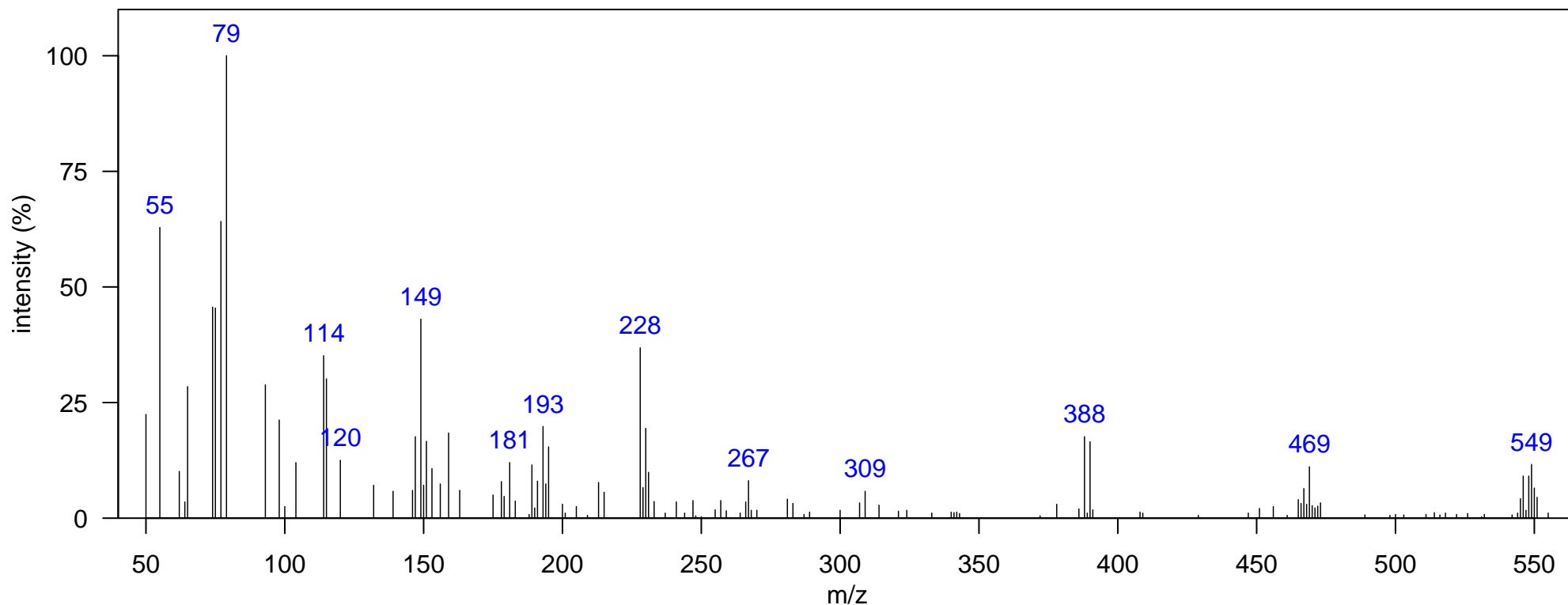
Name: BB 5Br 4

Class: PBB

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

1D RT, 2D RT (s): 1768.33, 1.571  
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-Br <sub>2</sub> ] <sup>+</sup>
465 [M-Br] <sup>+</sup>
544 M <sup>+</sup>

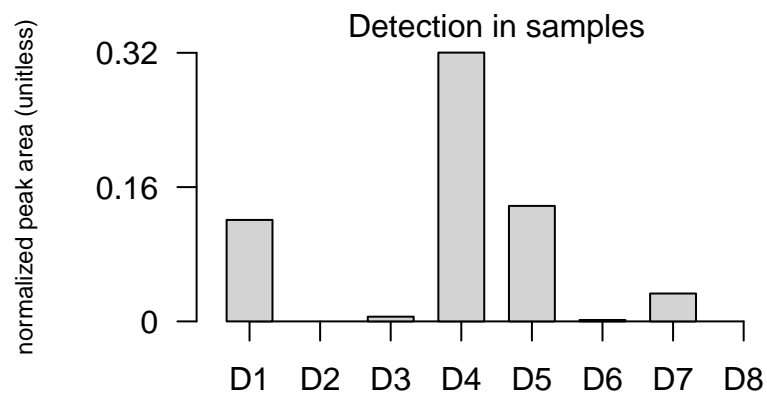
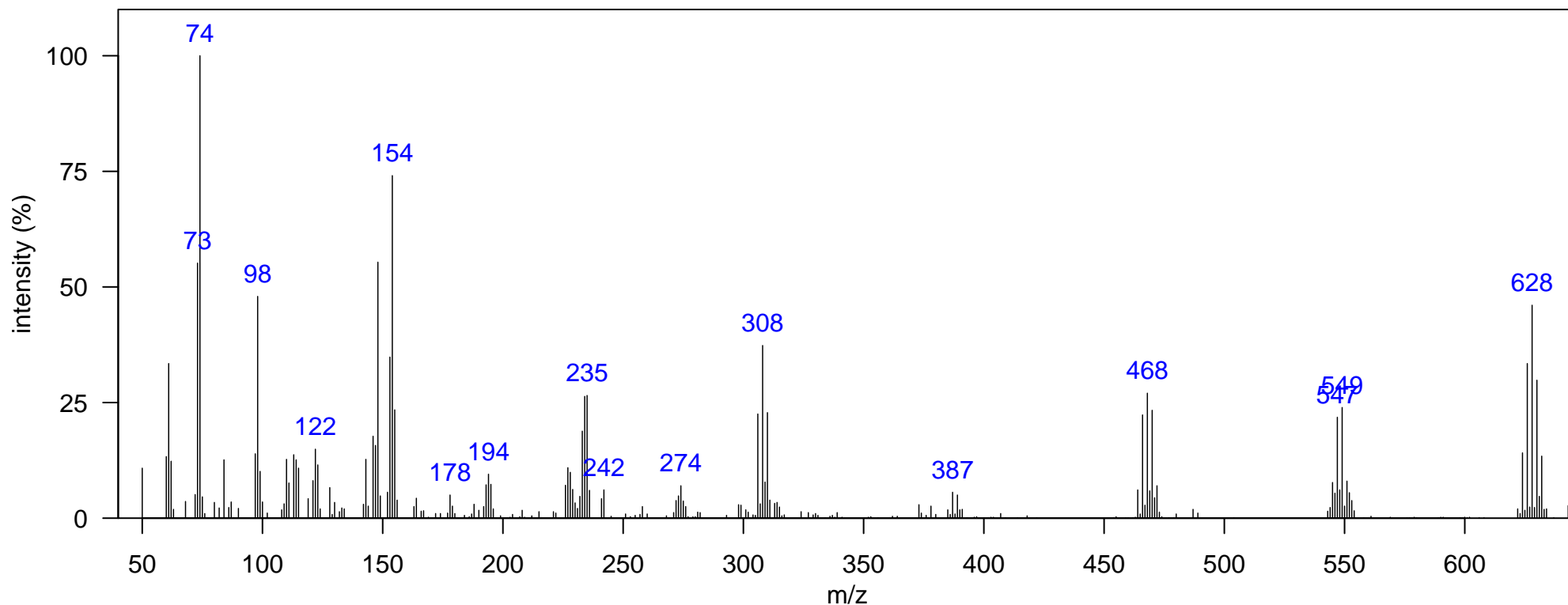
Name: BB-153

Class: PBB

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

1D RT, 2D RT (s): 1771.83, 2.251  
Quantitative Ion m/z: 628  
Atlantic Lib: polybrominated biphenyl 6Br

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



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

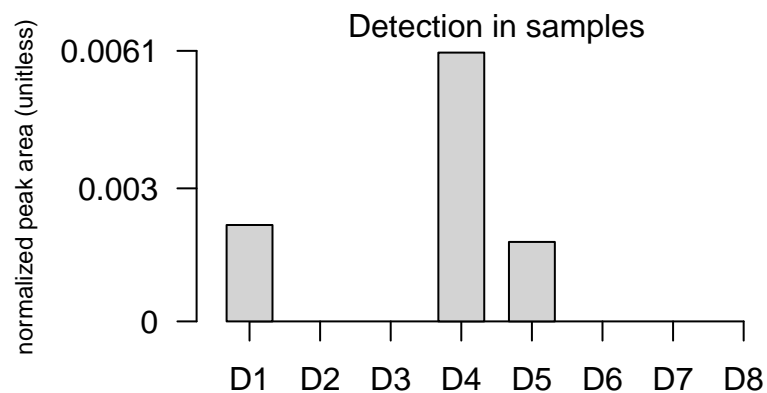
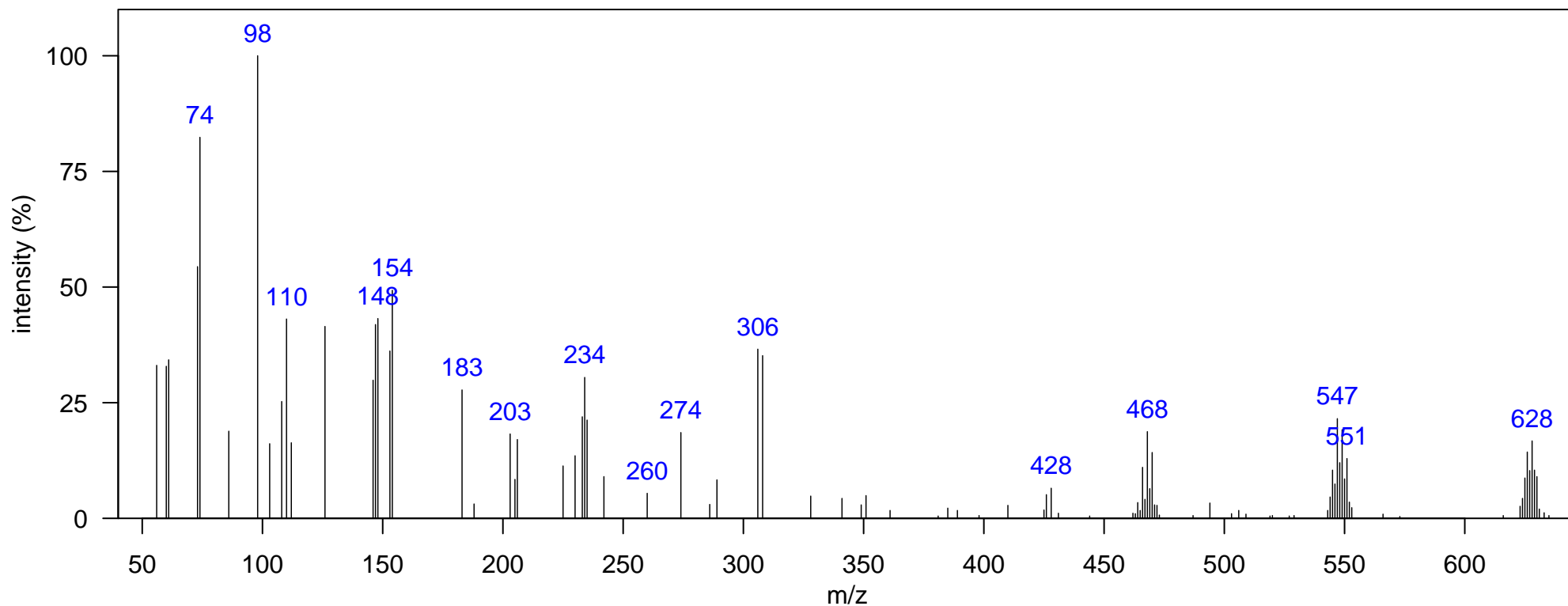
Name: BB 6Br 1

Class: PBB

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1733.35, 2.211  
Quantitative Ion m/z: 628  
Atlantic Lib: polybrominated biphenyl 6Br

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



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

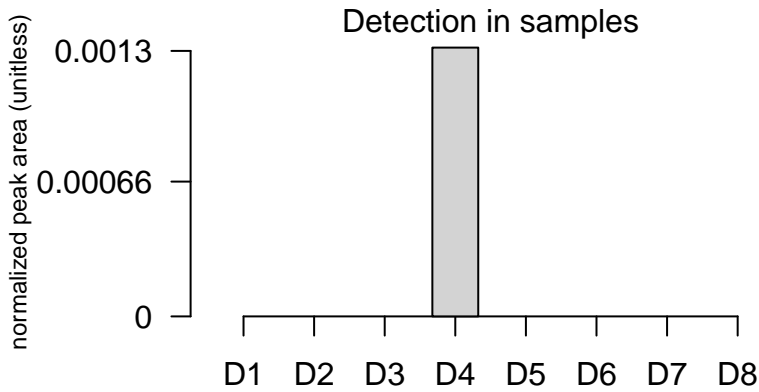
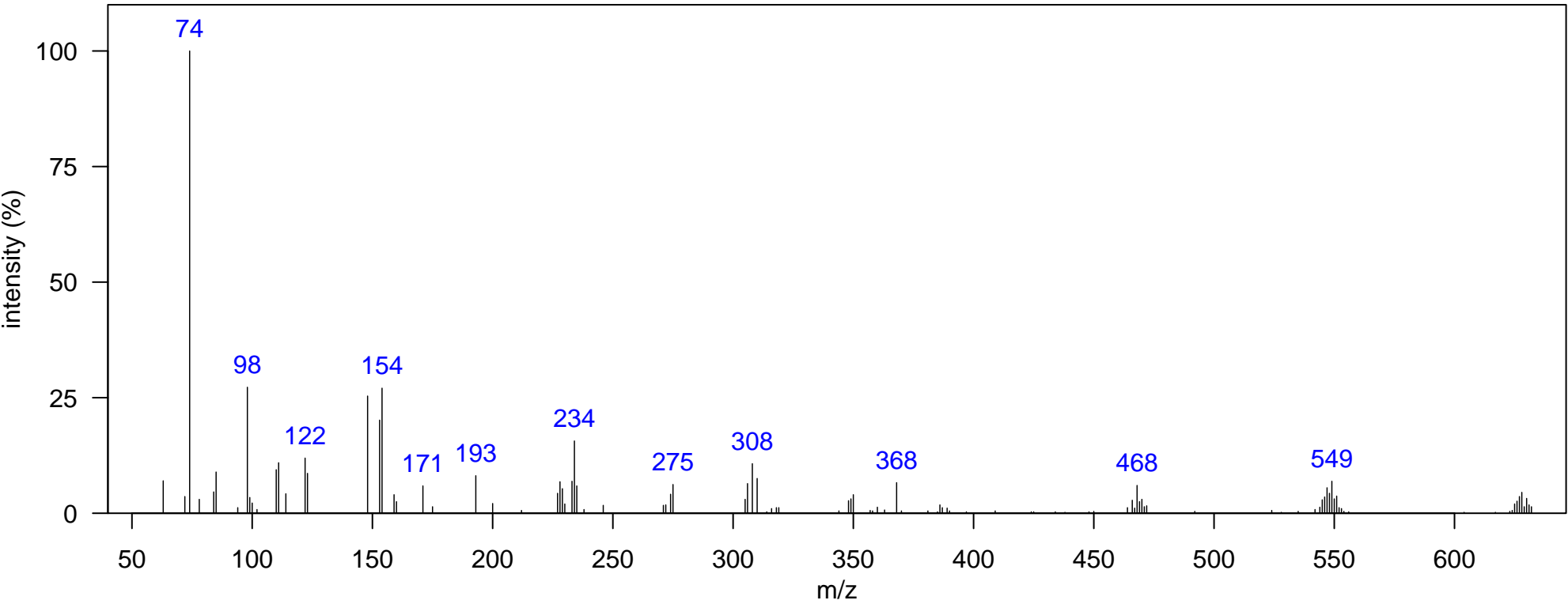
Name: BB 6Br 2

Class: PBB

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

1D RT, 2D RT (s): 1817.3, 2.6  
Quantitative Ion m/z: 628  
Atlantic Lib: polybrominated biphenyl 6Br

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



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

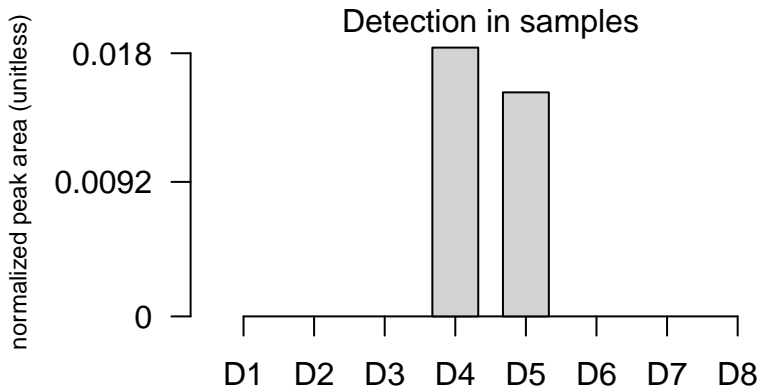
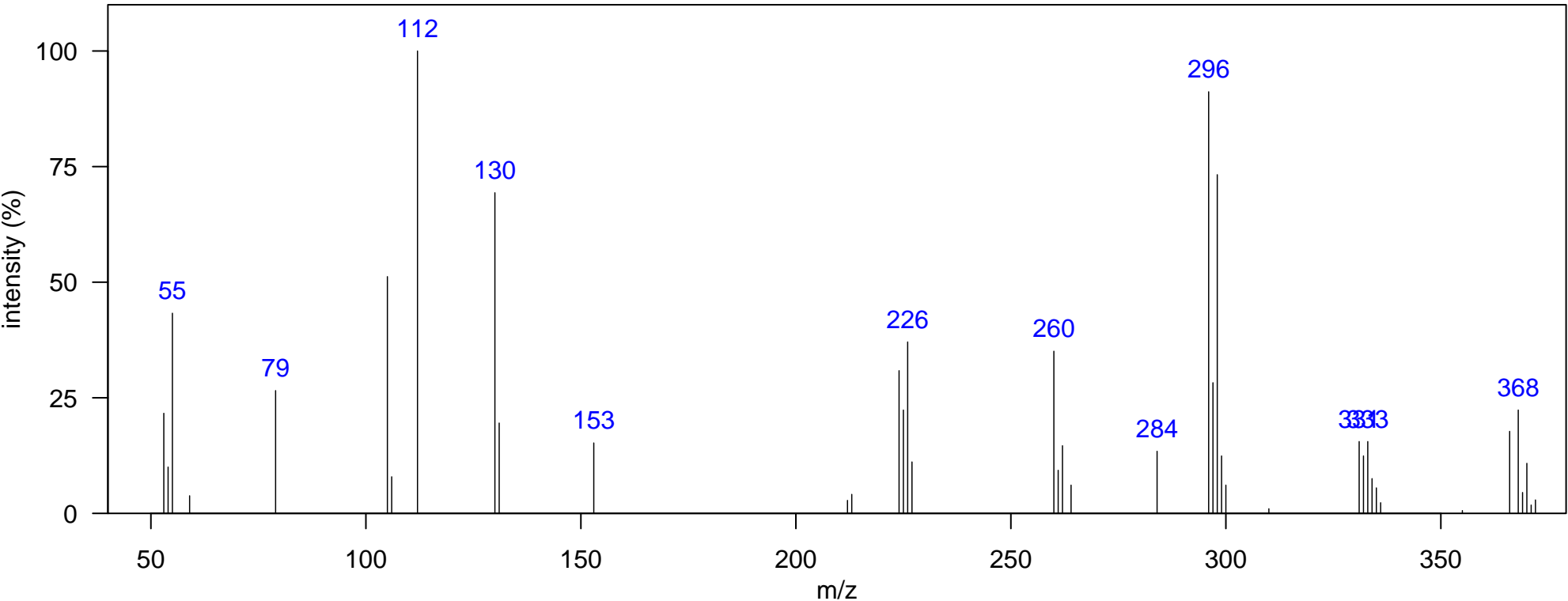
Name: terphenyl 4Cl 1

Class: PCT

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

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

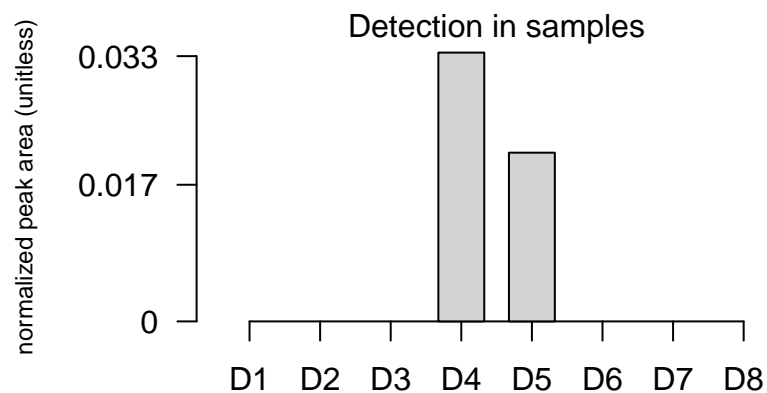
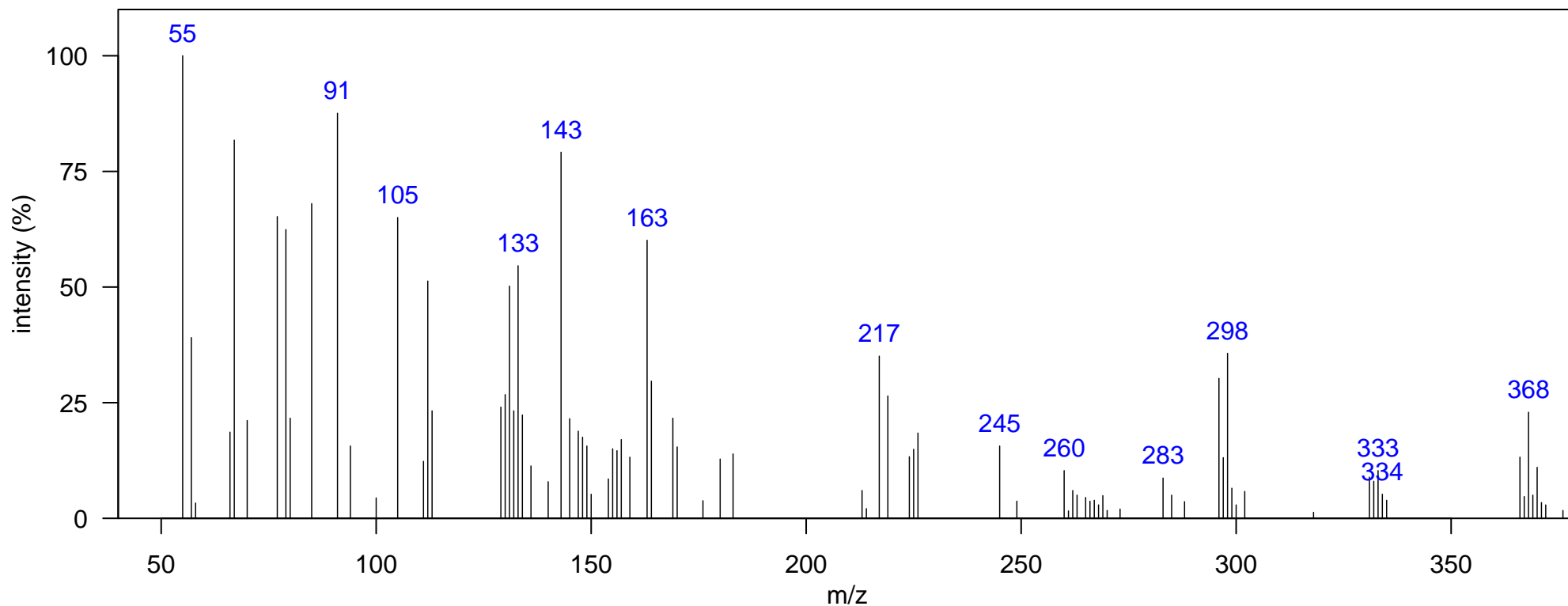
Name: terphenyl 4Cl 2

Class: PCT

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1533.97, 1.538  
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>

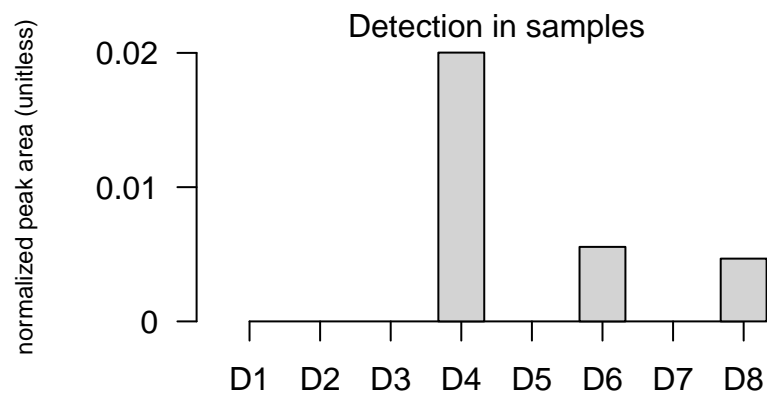
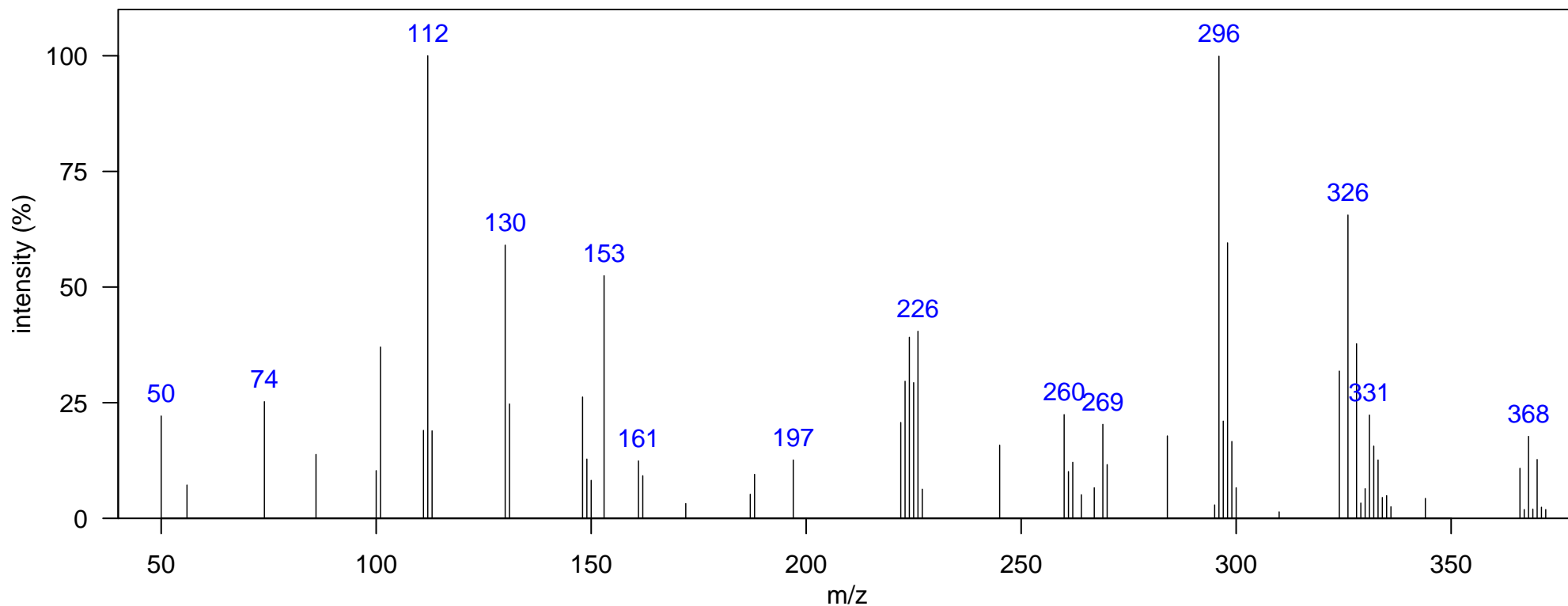
Name: terphenyl 4Cl 3

Class: PCT

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

1D RT, 2D RT (s): 1540.96, 1.591  
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>

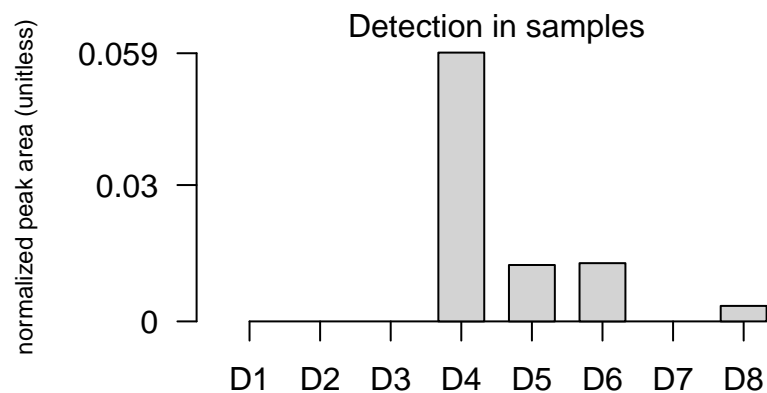
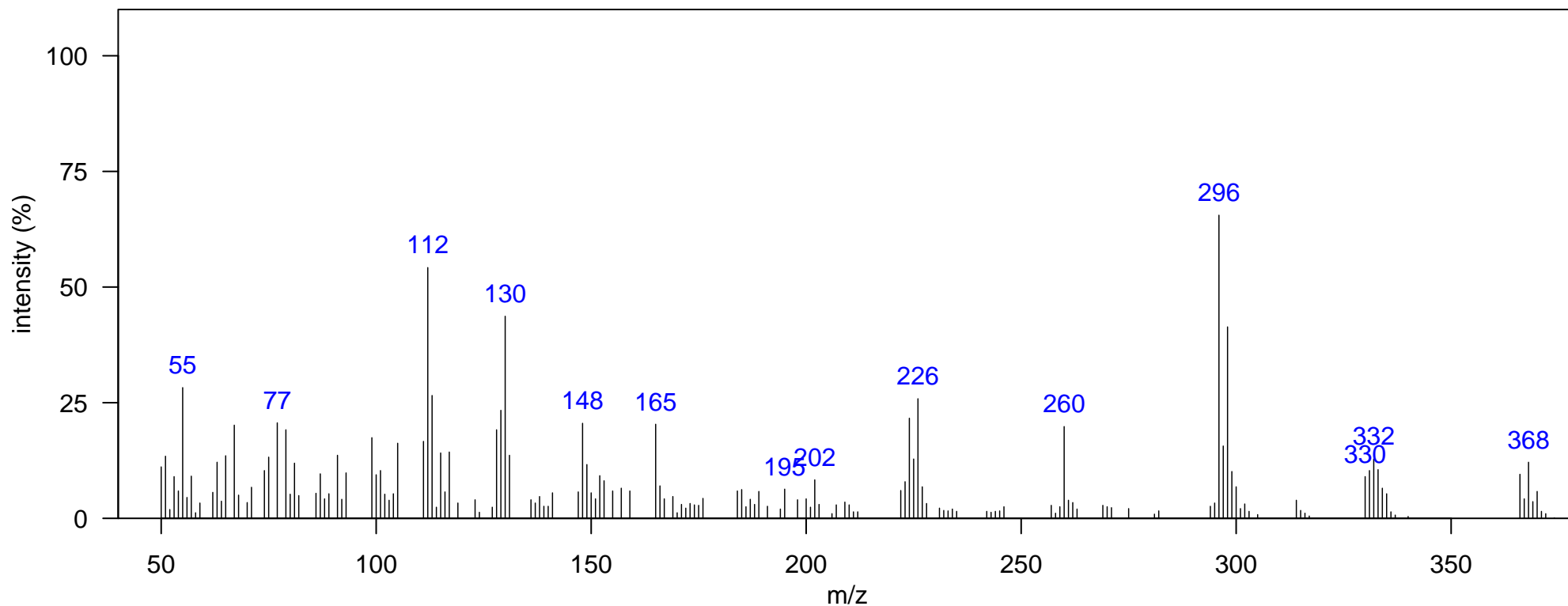
Name: terphenyl 4Cl 4

Class: PCT

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

1D RT, 2D RT (s): 1568.95, 1.637  
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>



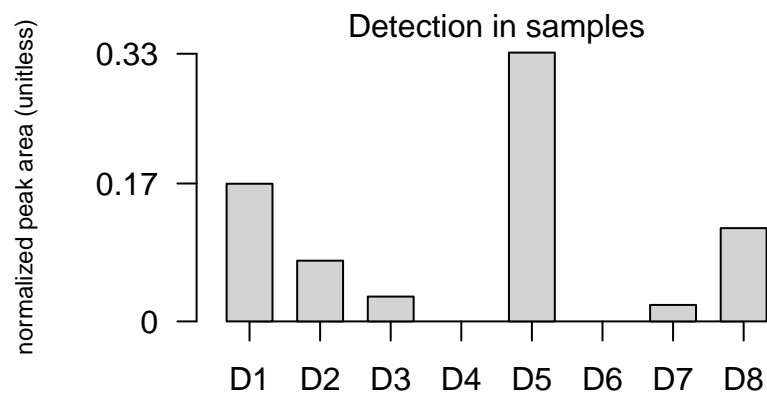
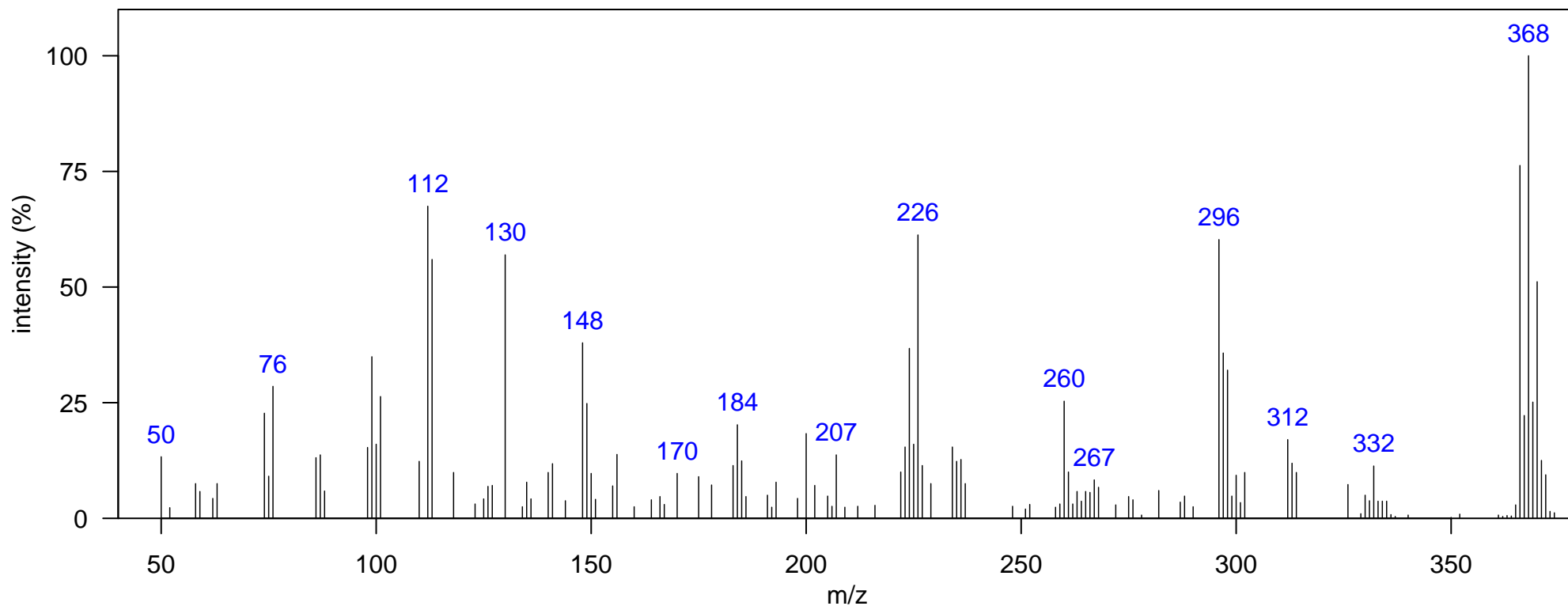
Name: terphenyl 4Cl 5

Class: PCT

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1610.92, 1.775  
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>

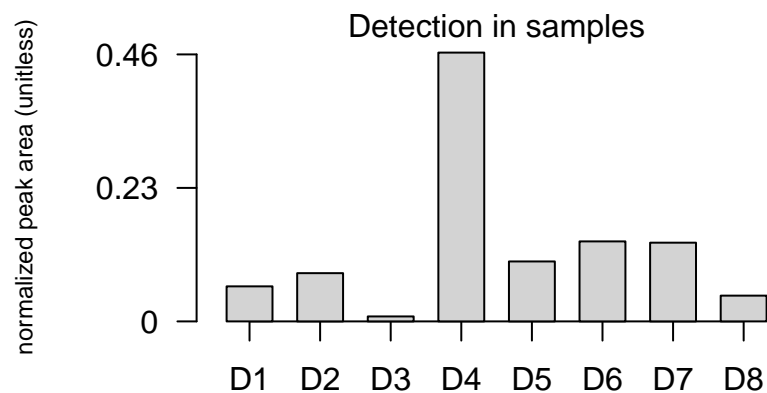
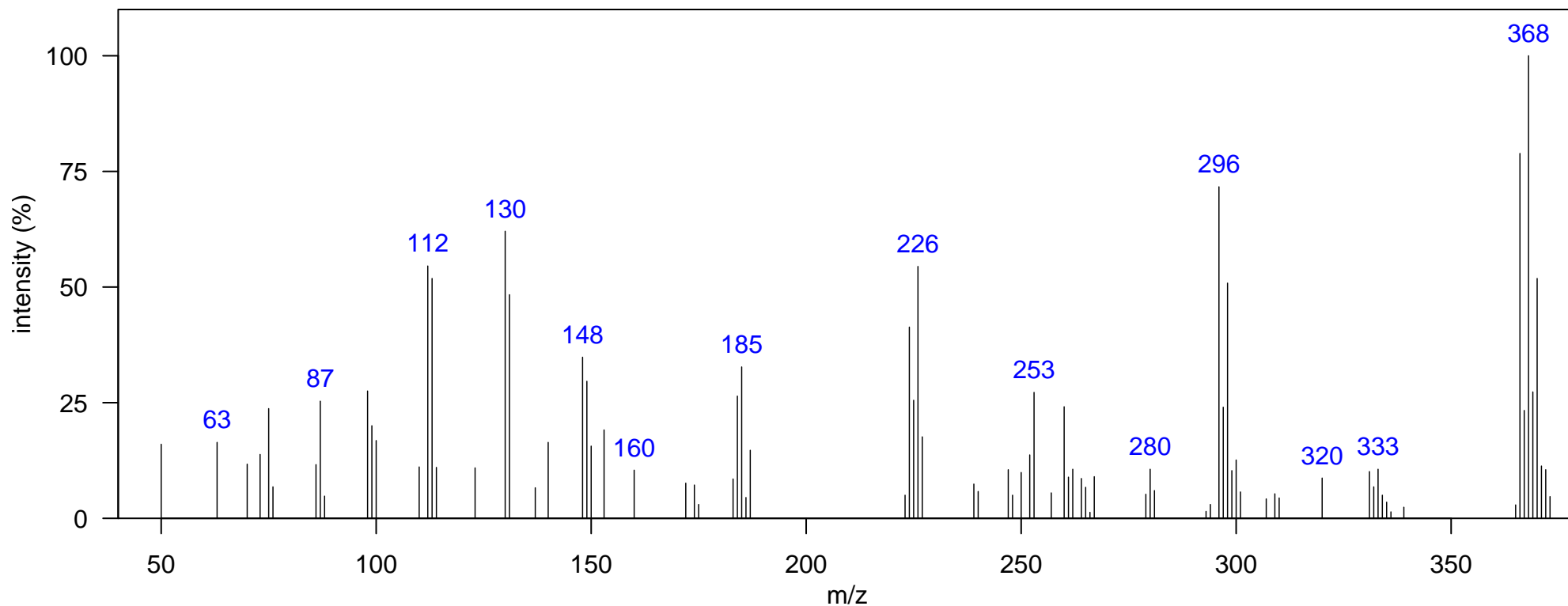
Name: terphenyl 4Cl 6

Class: PCT

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

1D RT, 2D RT (s): 1621.42, 1.881  
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>

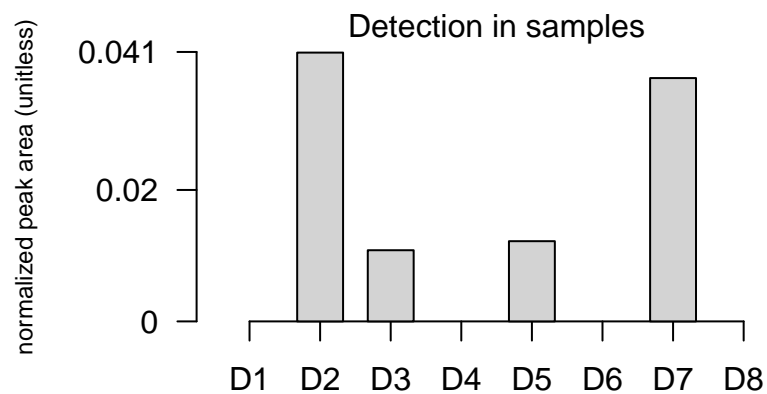
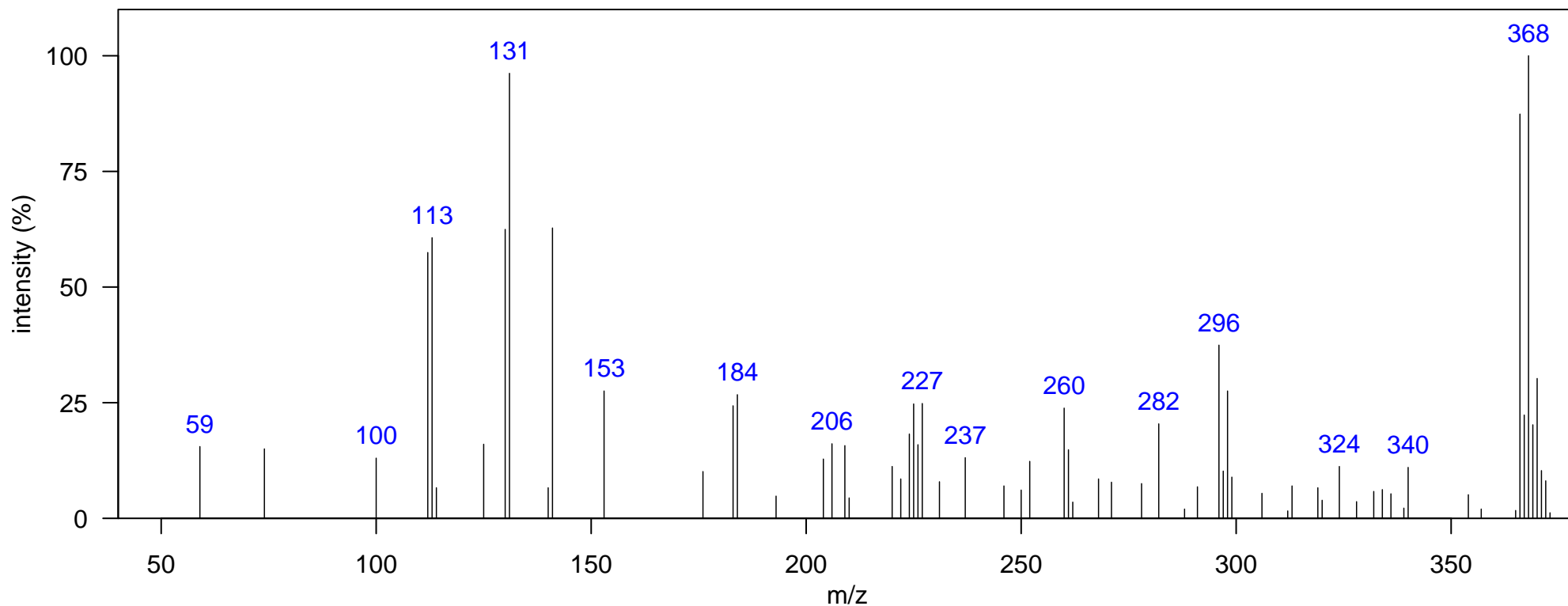
Name: terphenyl 4Cl 7

Class: PCT

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1652.9, 2.053  
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>

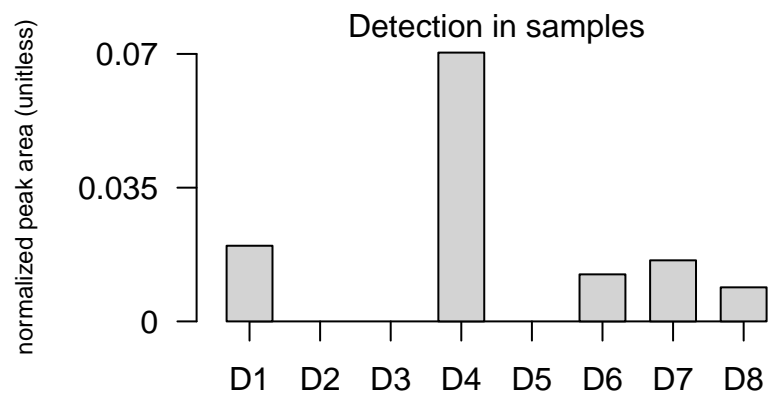
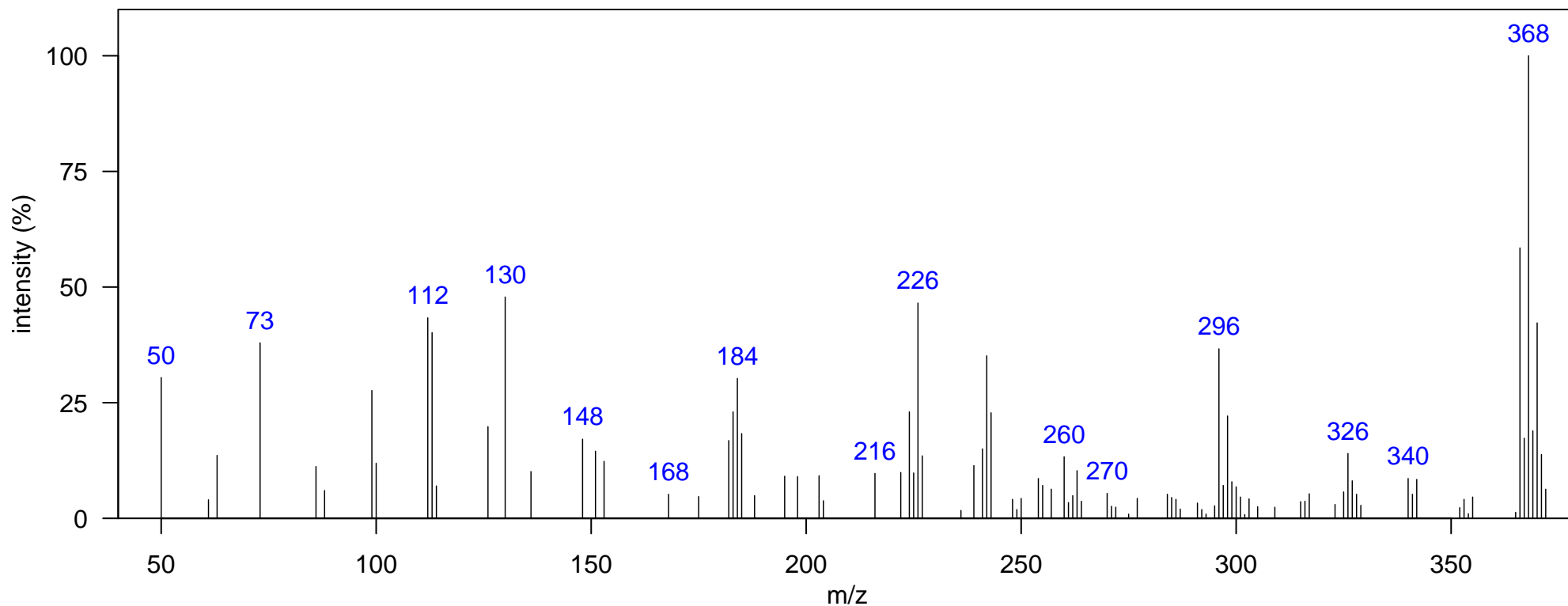
Name: terphenyl 4Cl 8

Class: PCT

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

1D RT, 2D RT (s): 1670.39, 1.993  
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>

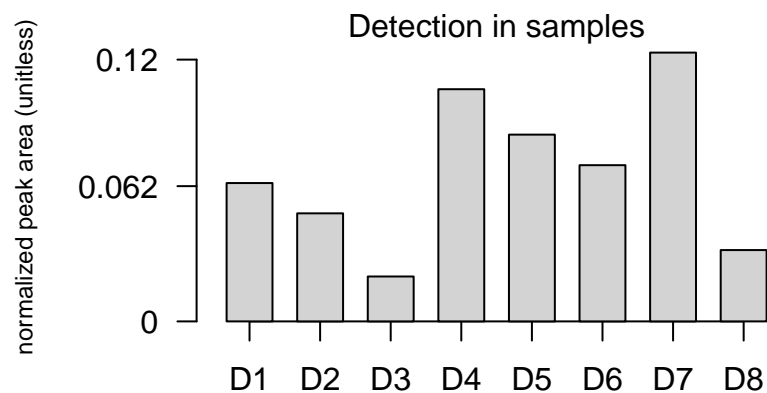
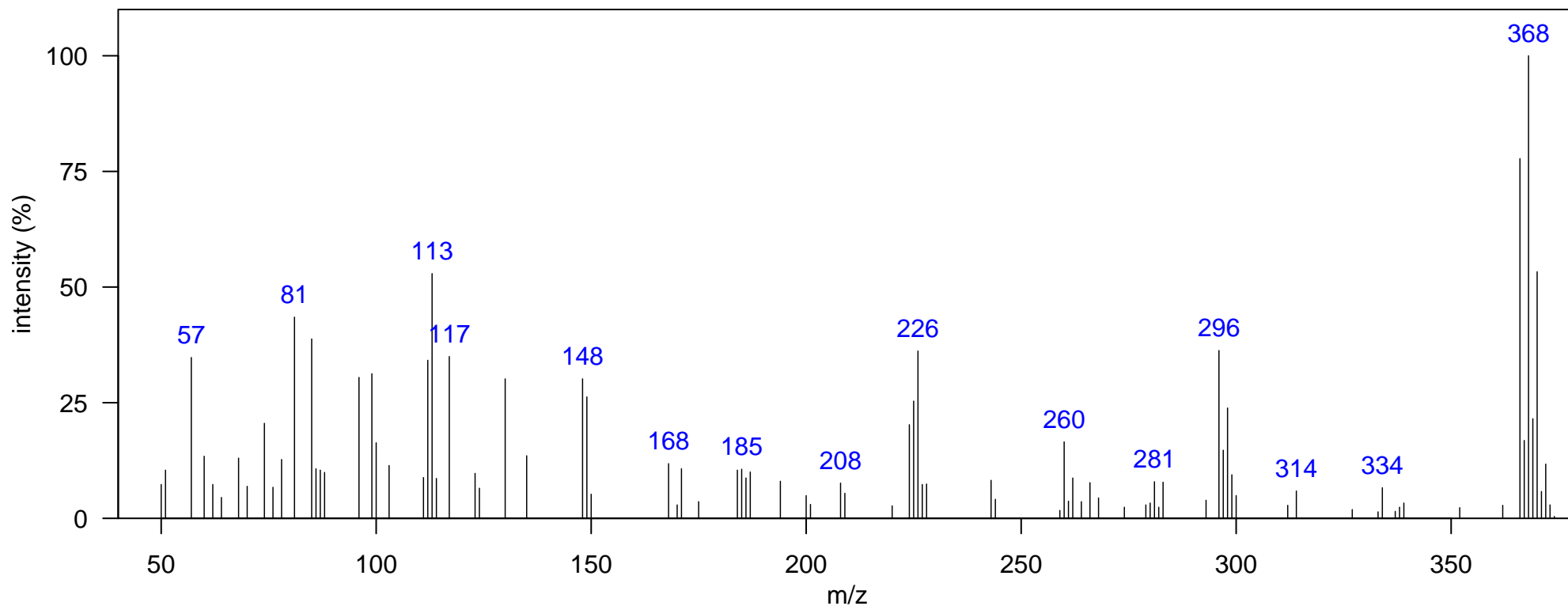
Name: terphenyl 4Cl 9

Class: PCT

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

1D RT, 2D RT (s): 1691.38, 2.059  
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>

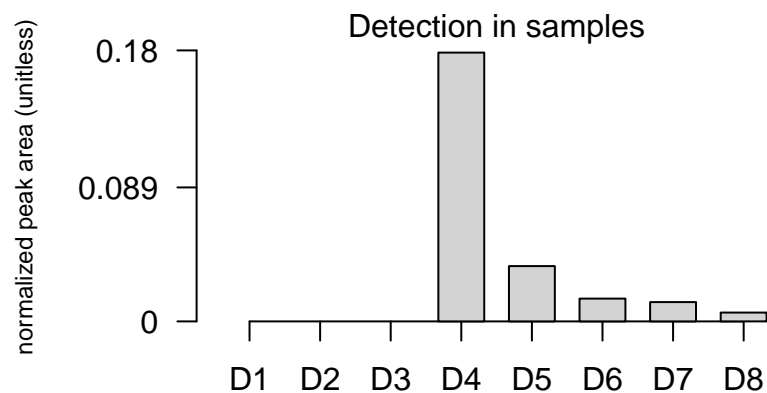
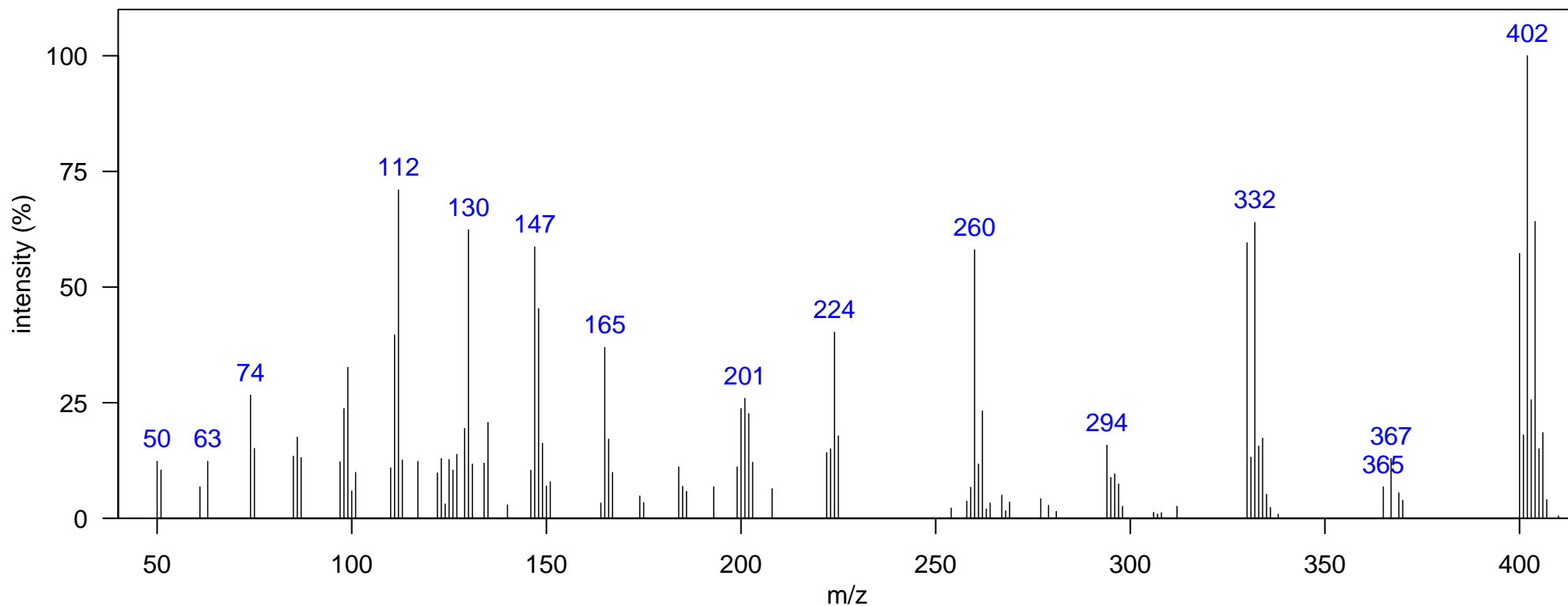
Name: terphenyl 5Cl 1

Class: PCT

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

1D RT, 2D RT (s): 1687.88, 2.099  
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>

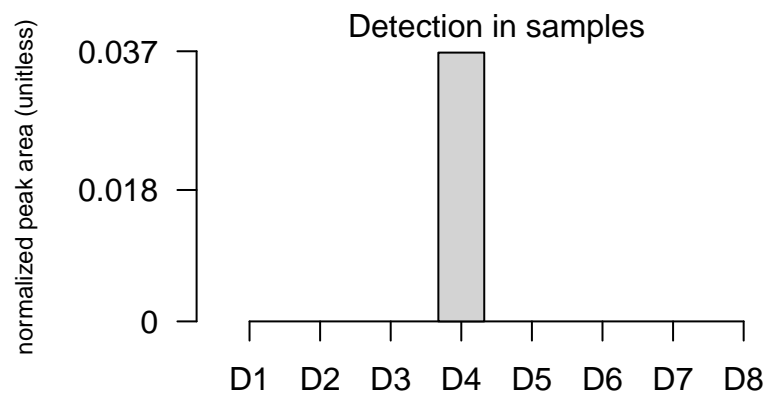
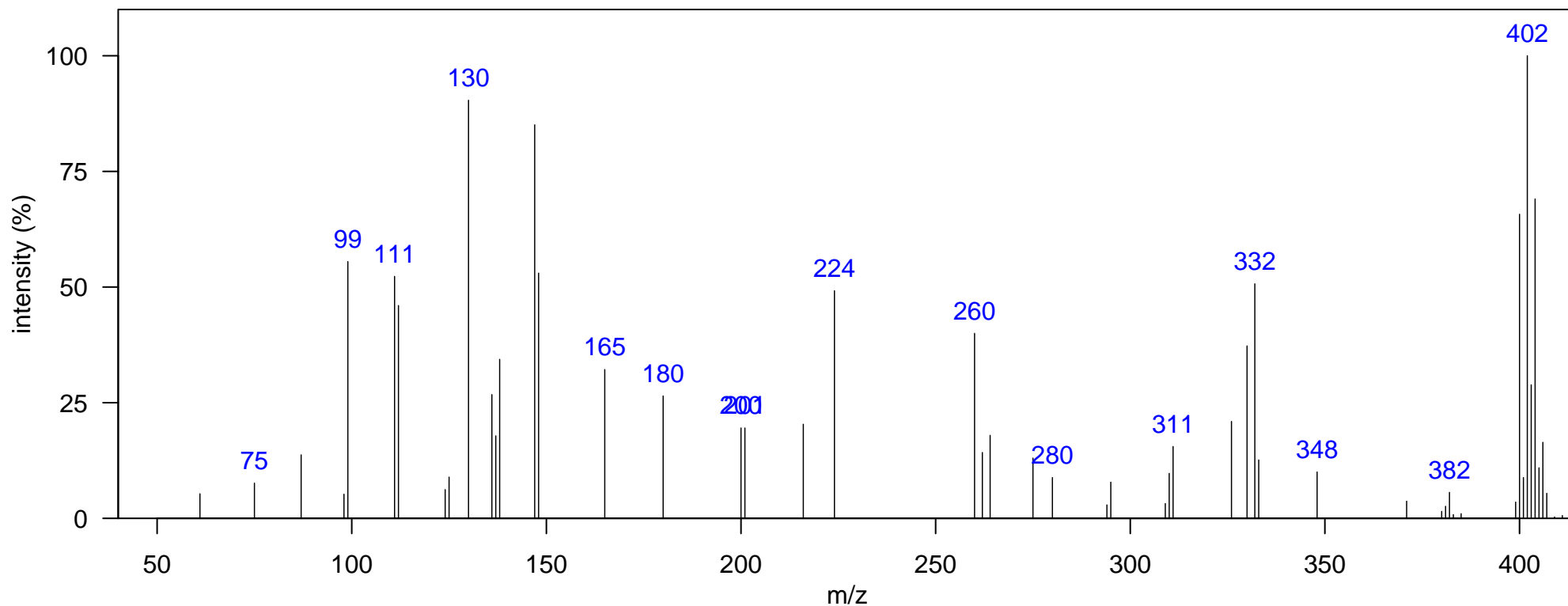
Name: terphenyl 5Cl 2

Class: PCT

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

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

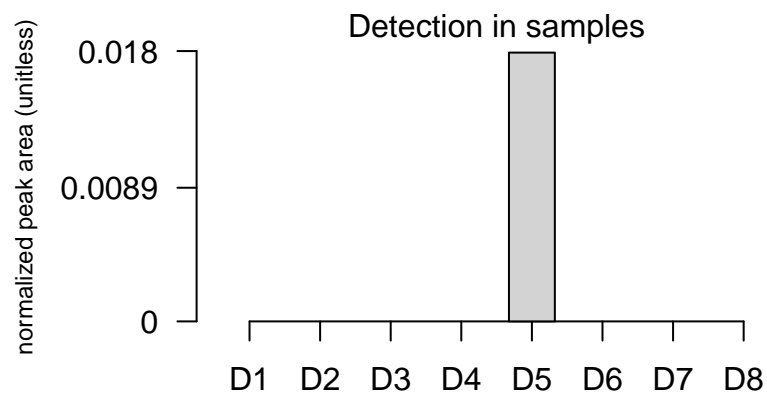
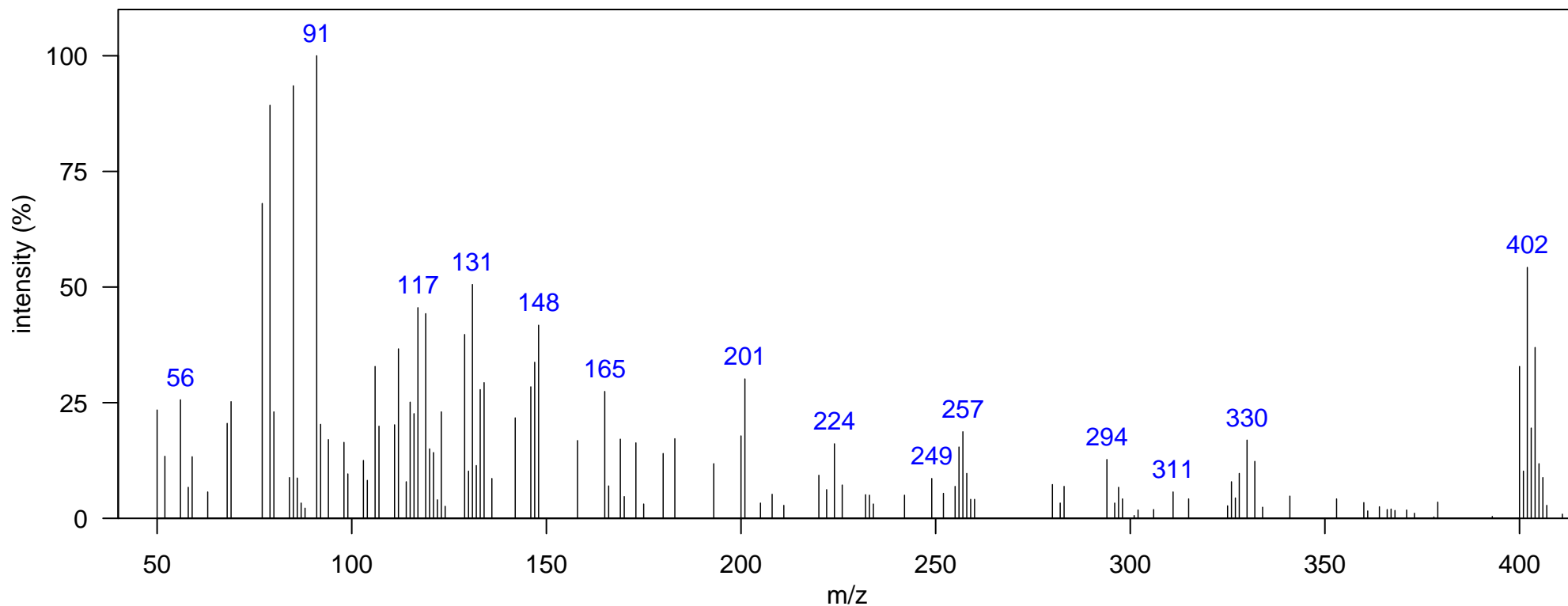
Name: terphenyl 5Cl 3

Class: PCT

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1701.87, 2.006  
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>



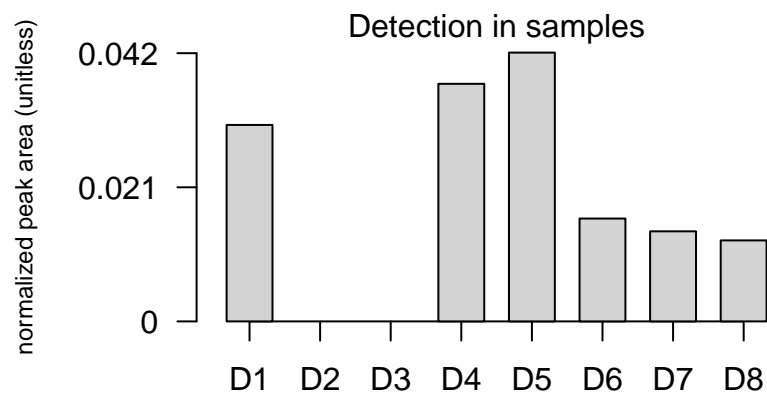
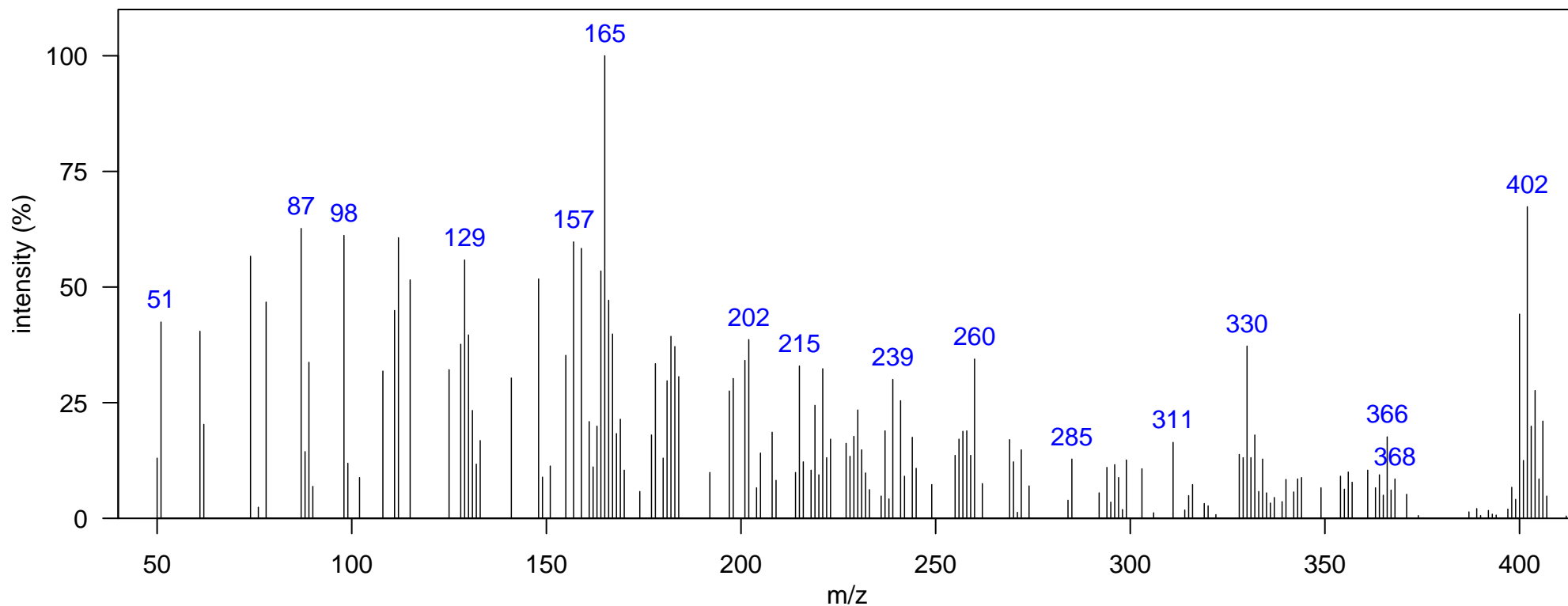
Name: terphenyl 5Cl 4

Class: PCT

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

1D RT, 2D RT (s): 1715.86, 1.94  
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>

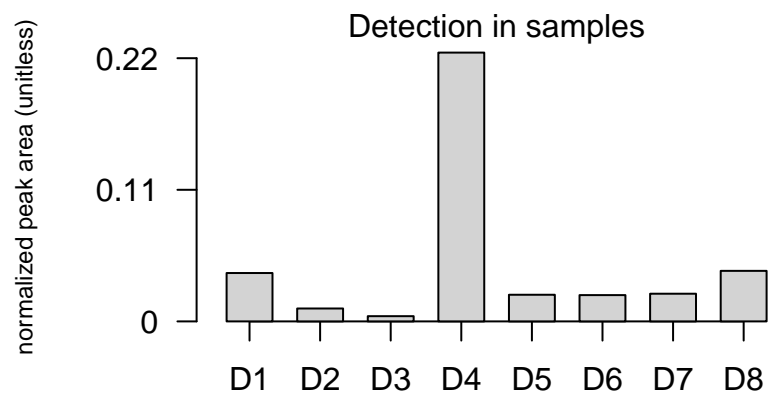
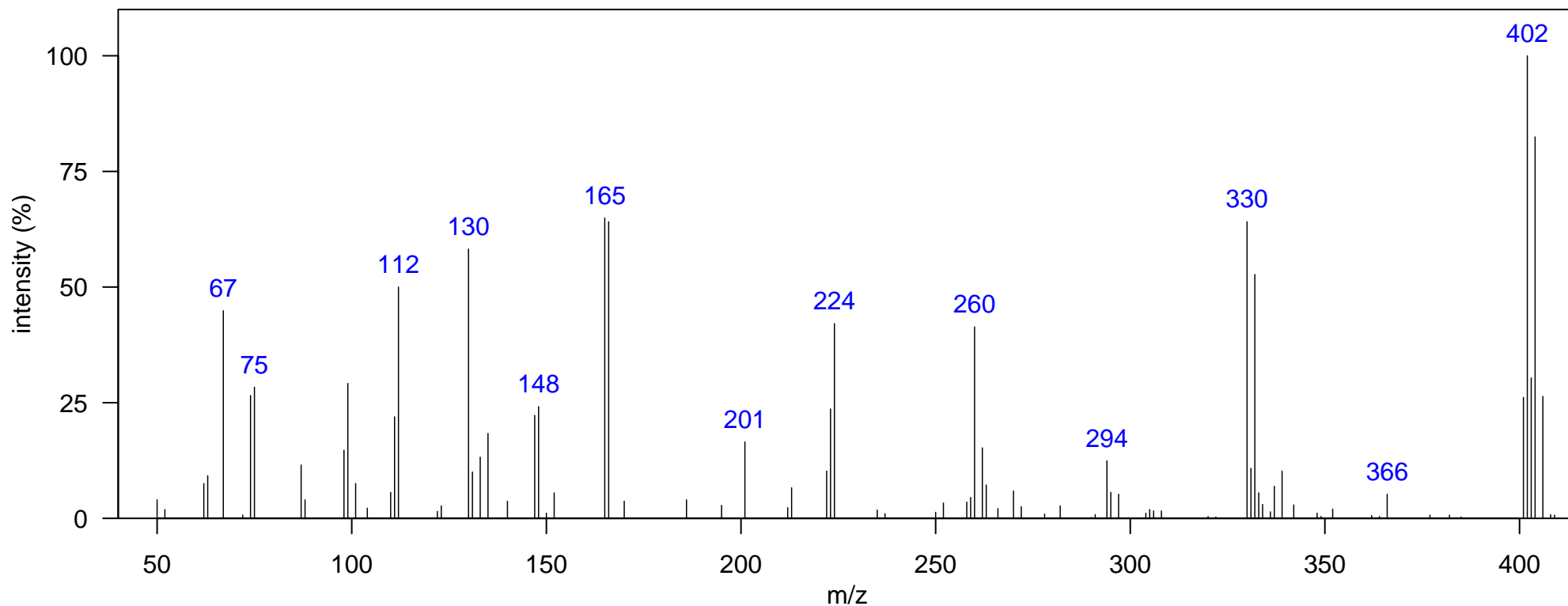
Name: terphenyl 5Cl 5

Class: PCT

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

1D RT, 2D RT (s): 1726.36, 1.934  
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>

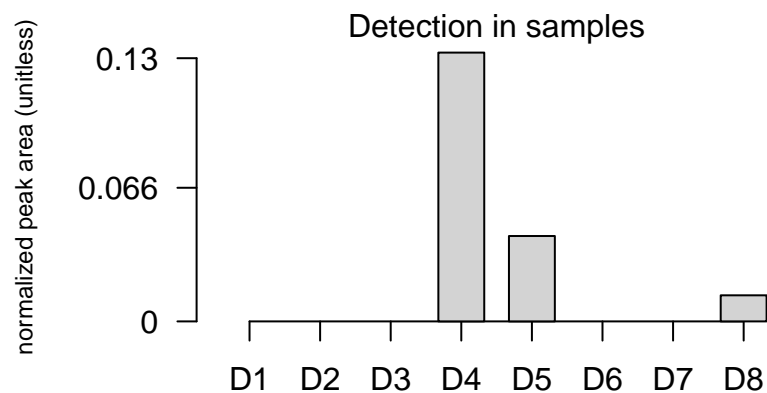
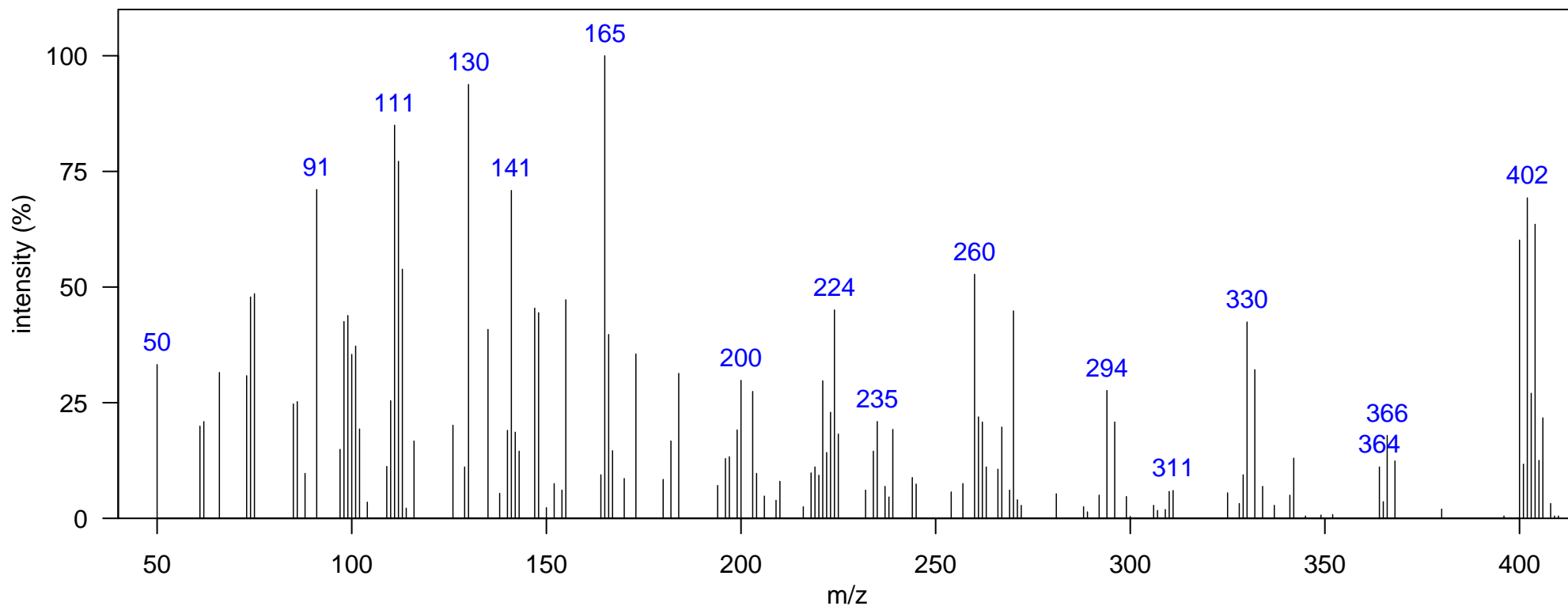
Name: terphenyl 5Cl 6

Class: PCT

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

1D RT, 2D RT (s): 1754.34, 1.934  
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>

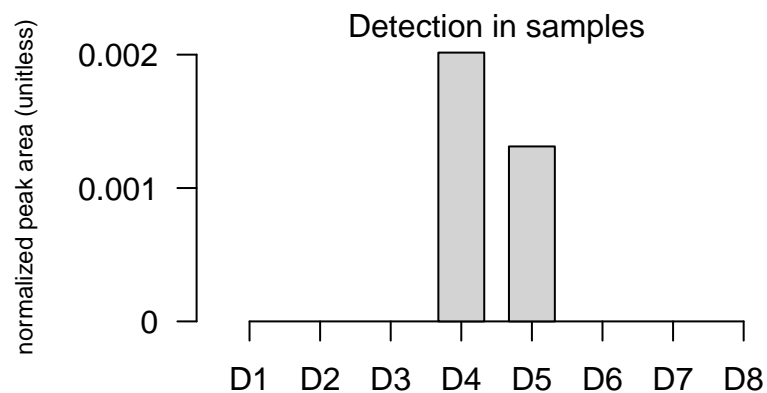
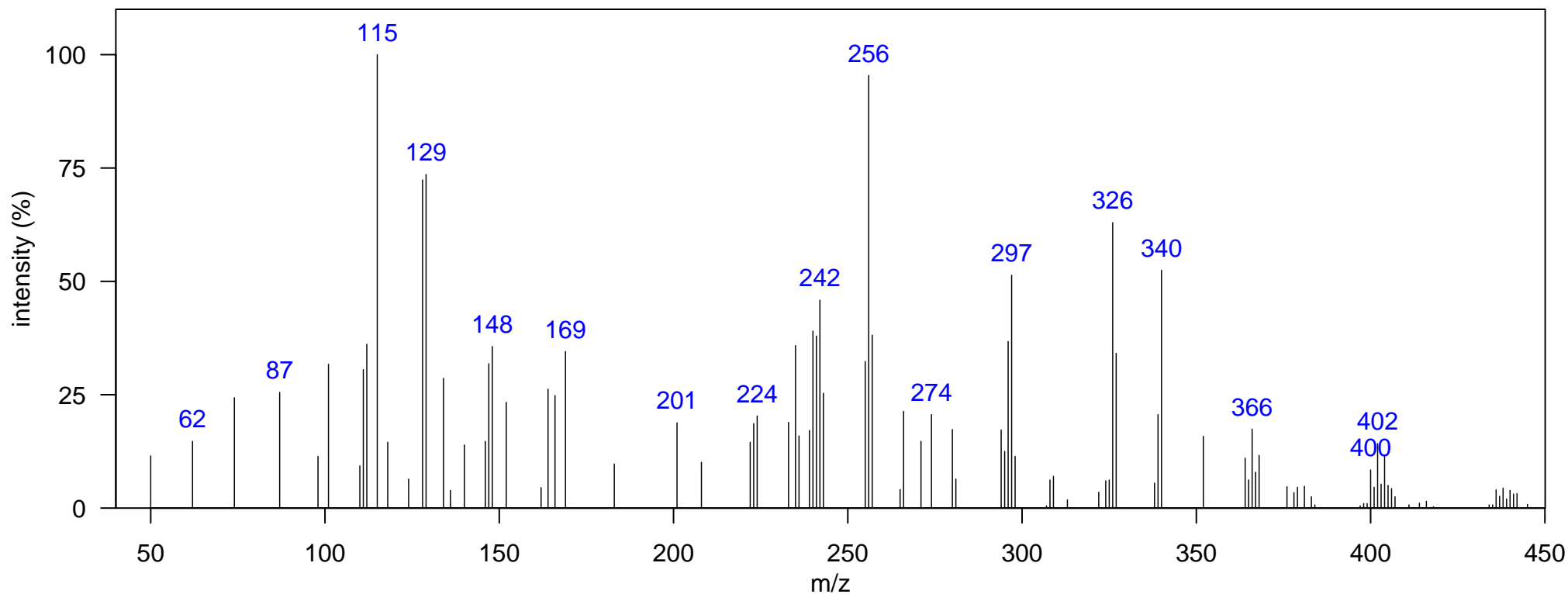
Name: terphenyl 6Cl 1

Class: PCT

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

1D RT, 2D RT (s): 1698.37, 2.013  
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>

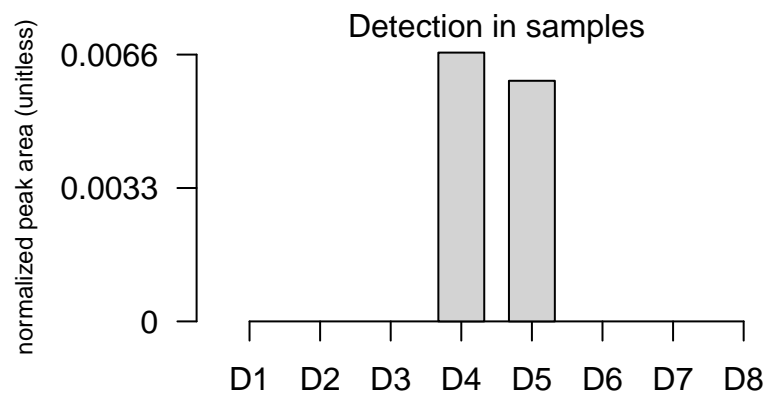
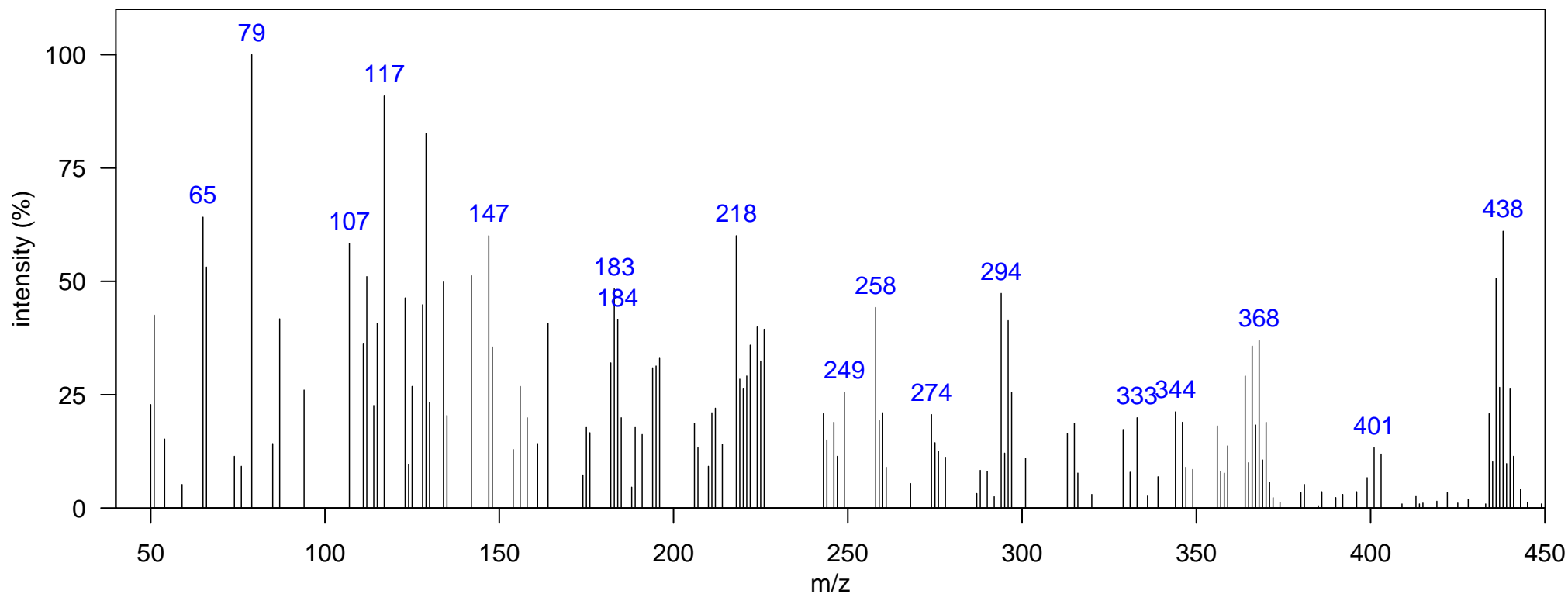
Name: terphenyl 6Cl 2

Class: PCT

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

1D RT, 2D RT (s): 1719.36, 1.841  
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>

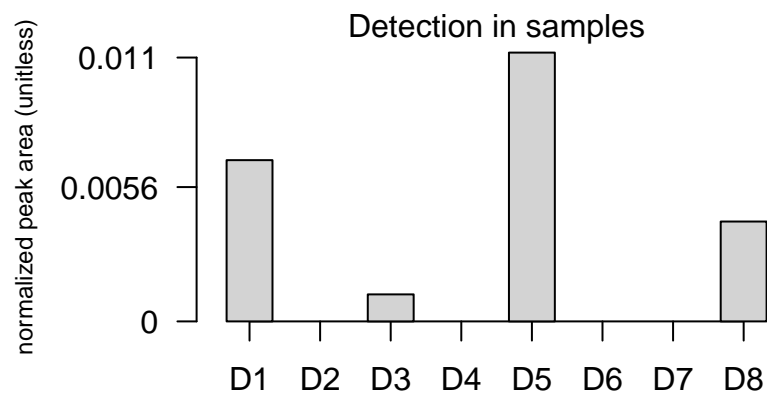
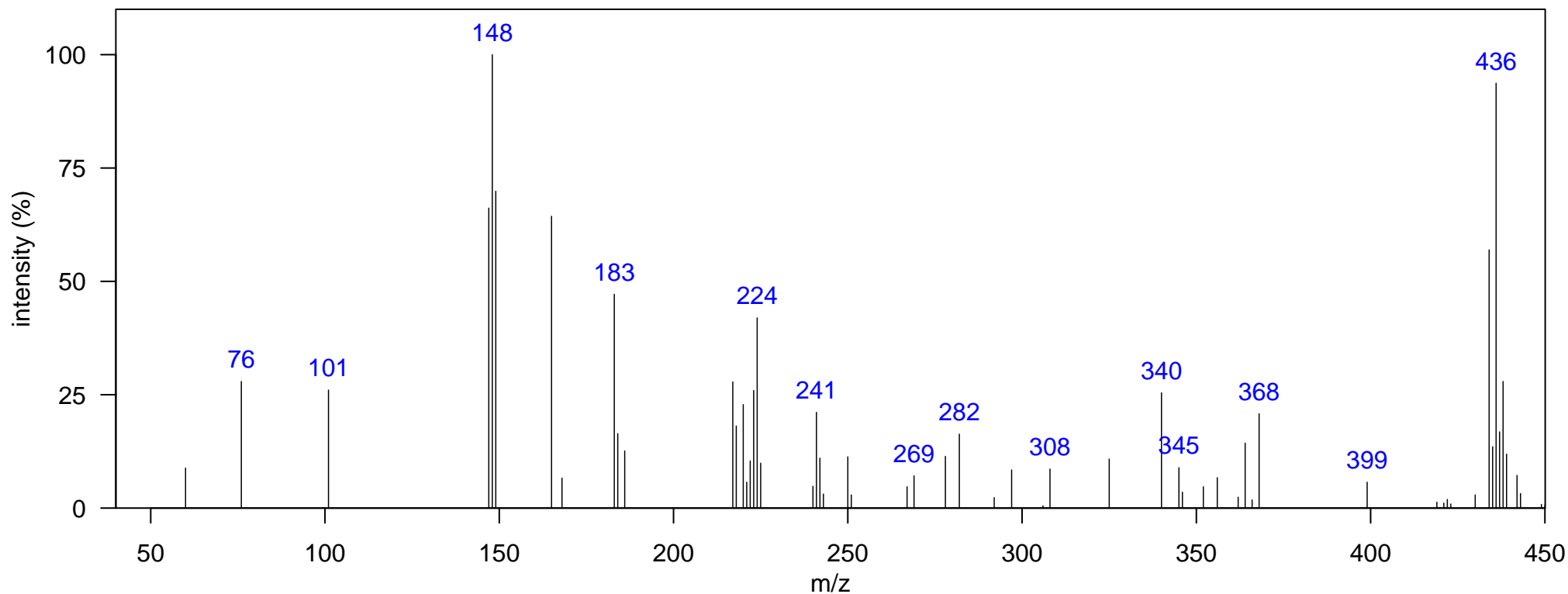
Name: terphenyl 6Cl 3

Class: PCT

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1736.85, 1.868  
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+

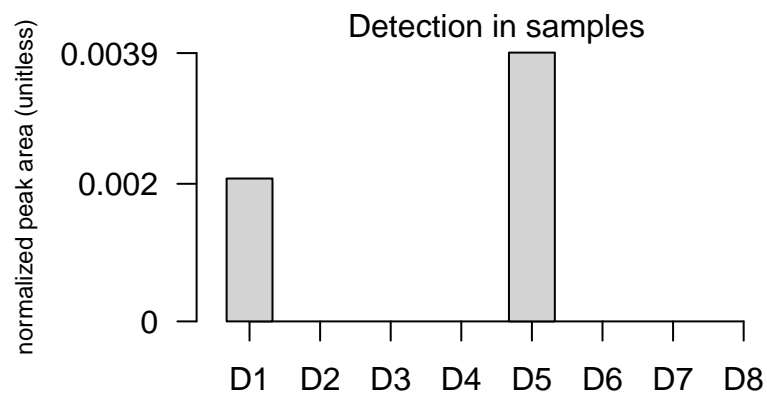
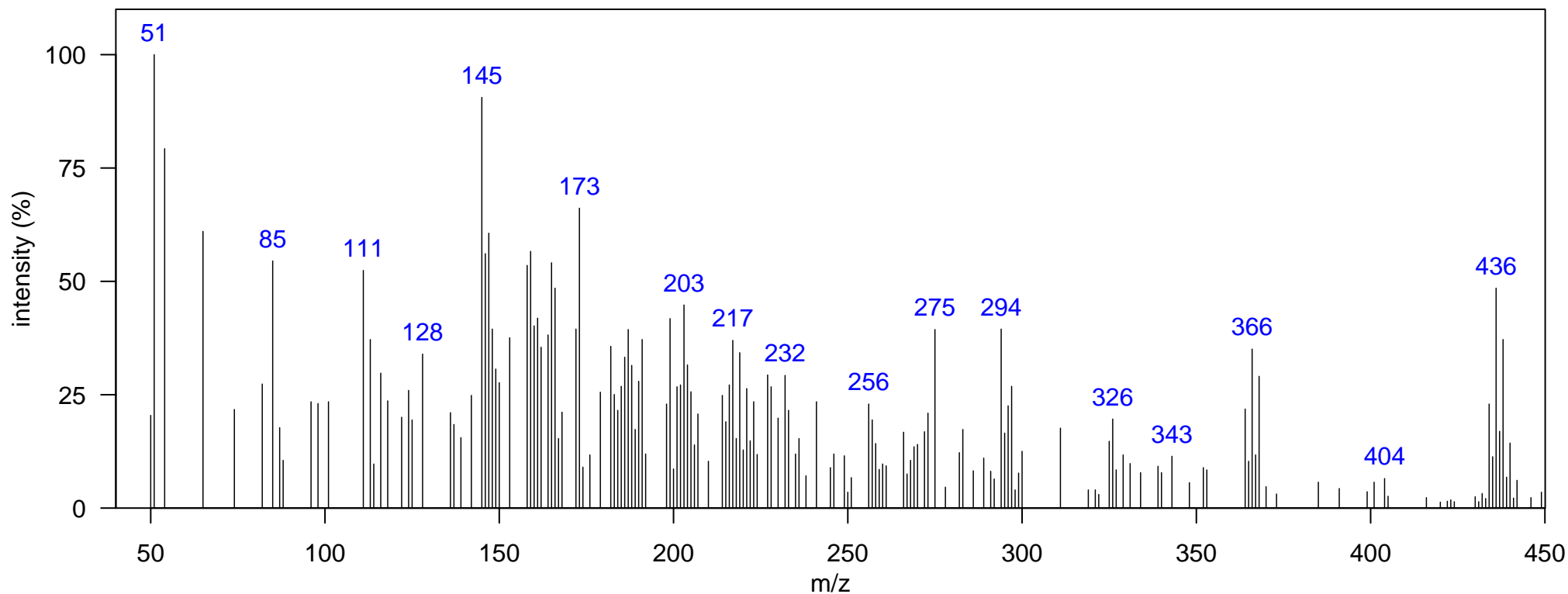
Name: terphenyl 6Cl 4

Class: PCT

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1747.34, 1.881  
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>

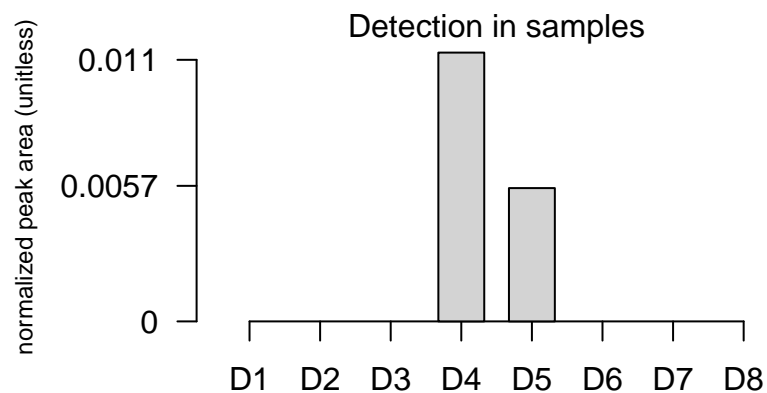
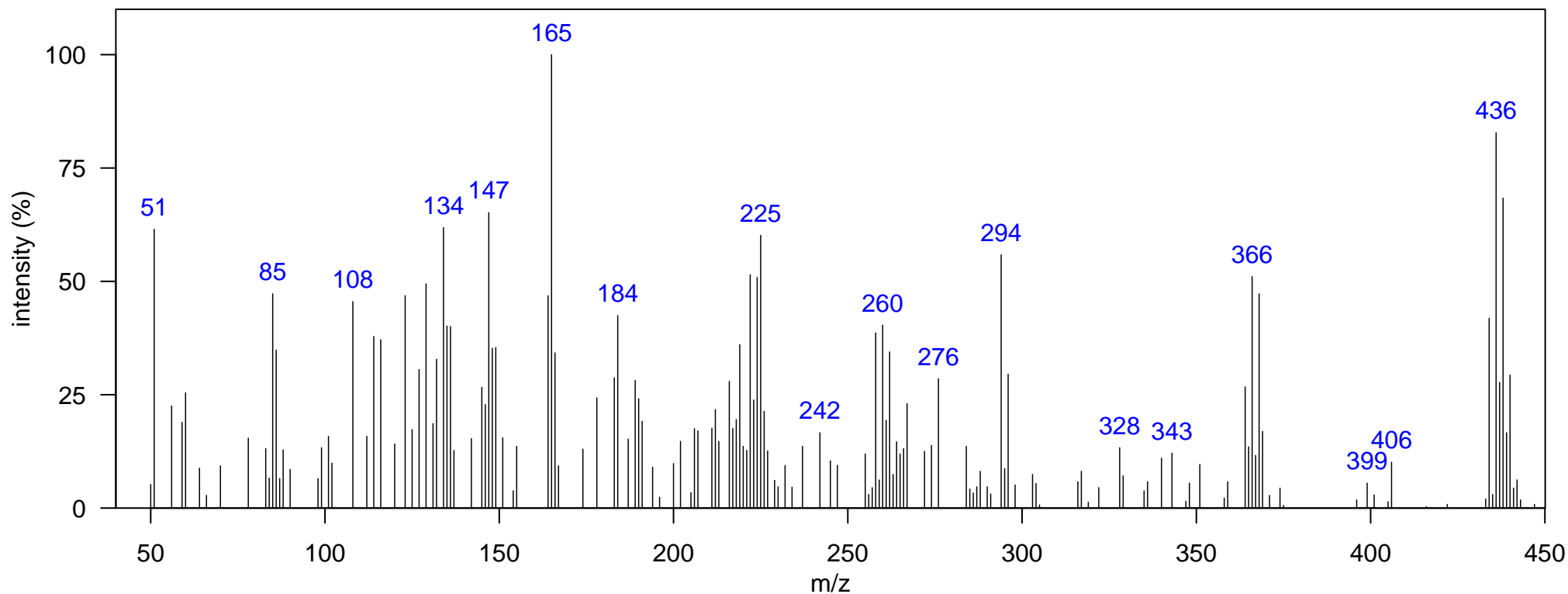
Name: terphenyl 6Cl 5

Class: PCT

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

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



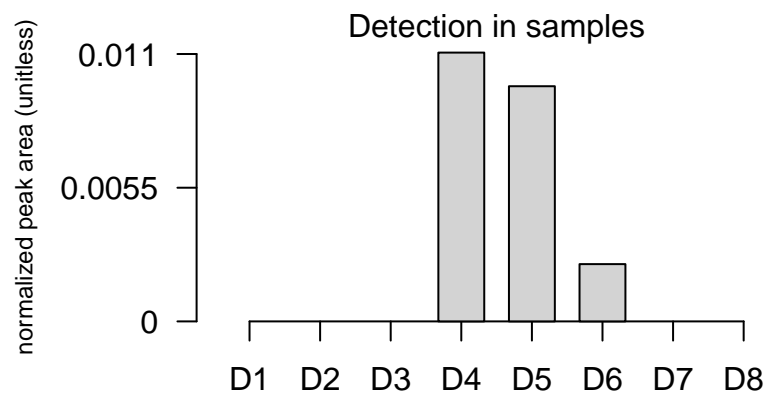
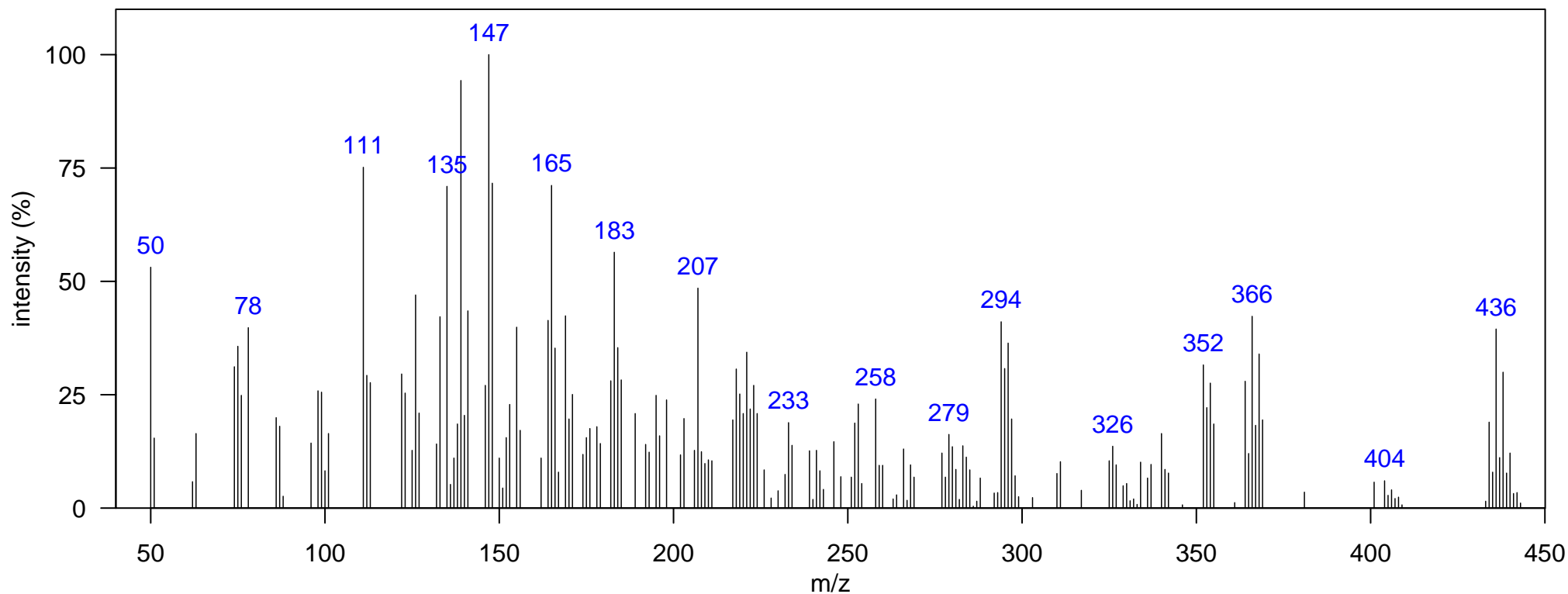
Name: terphenyl 6Cl 6

Class: PCT

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

1D RT, 2D RT (s): 1782.32, 2.086  
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>

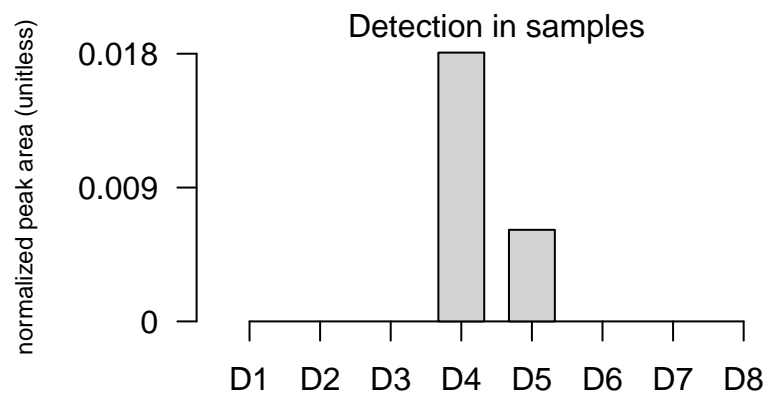
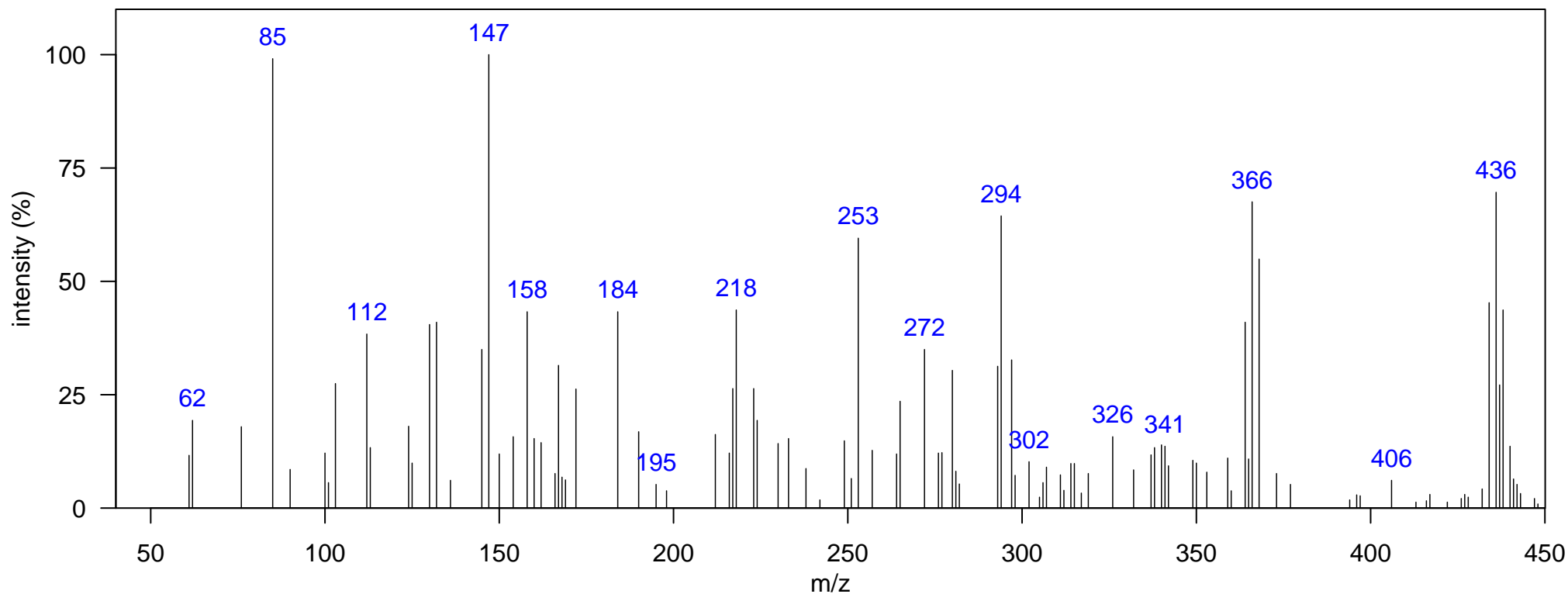
Name: terphenyl 6Cl 7

Class: PCT

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

1D RT, 2D RT (s): 1792.82, 2.125  
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>

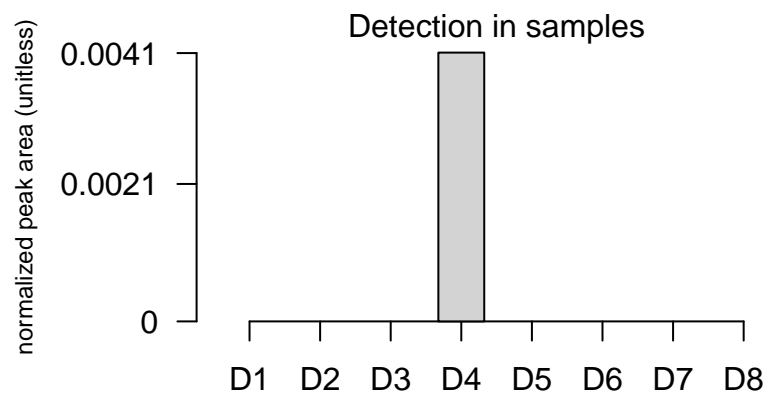
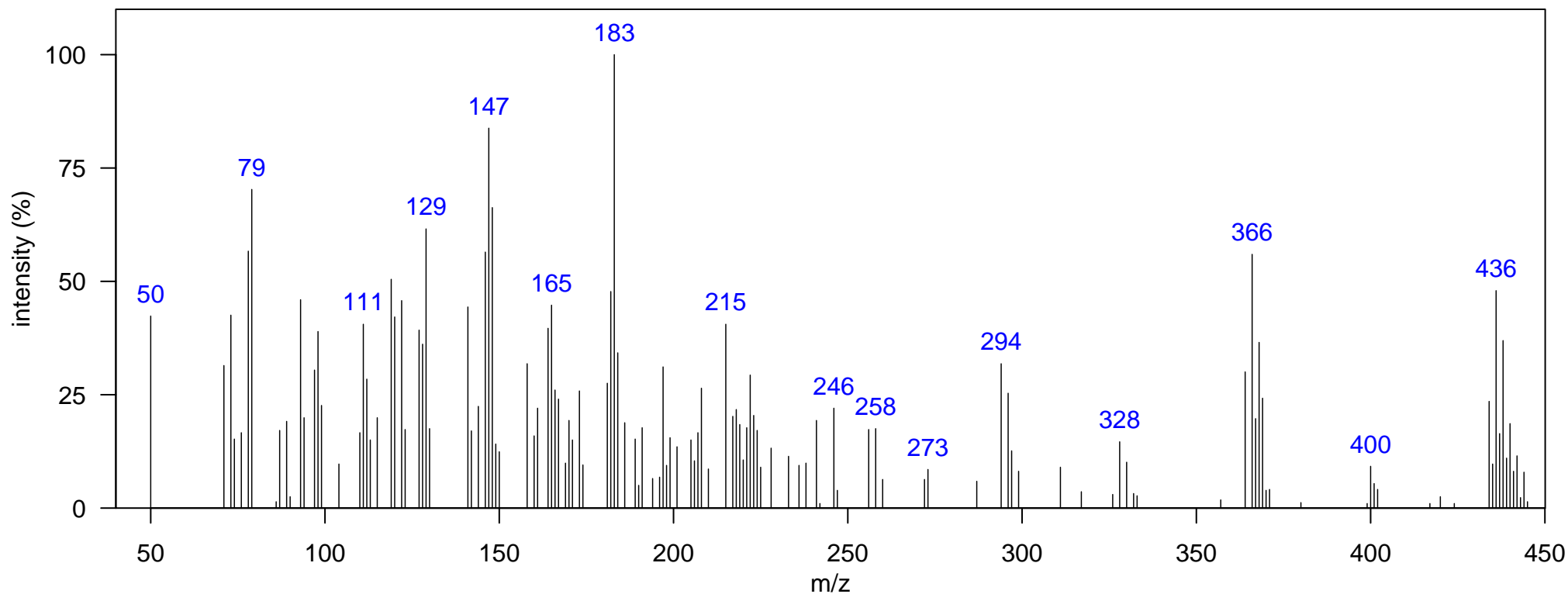
Name: terphenyl 6Cl 8

Class: PCT

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

1D RT, 2D RT (s): 1834.79, 2.284  
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>

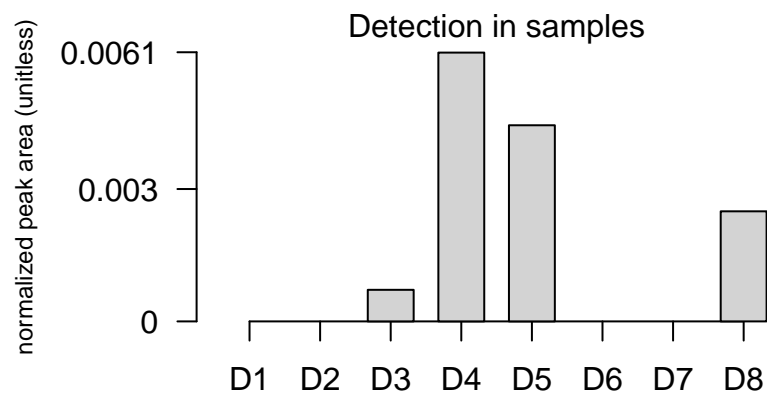
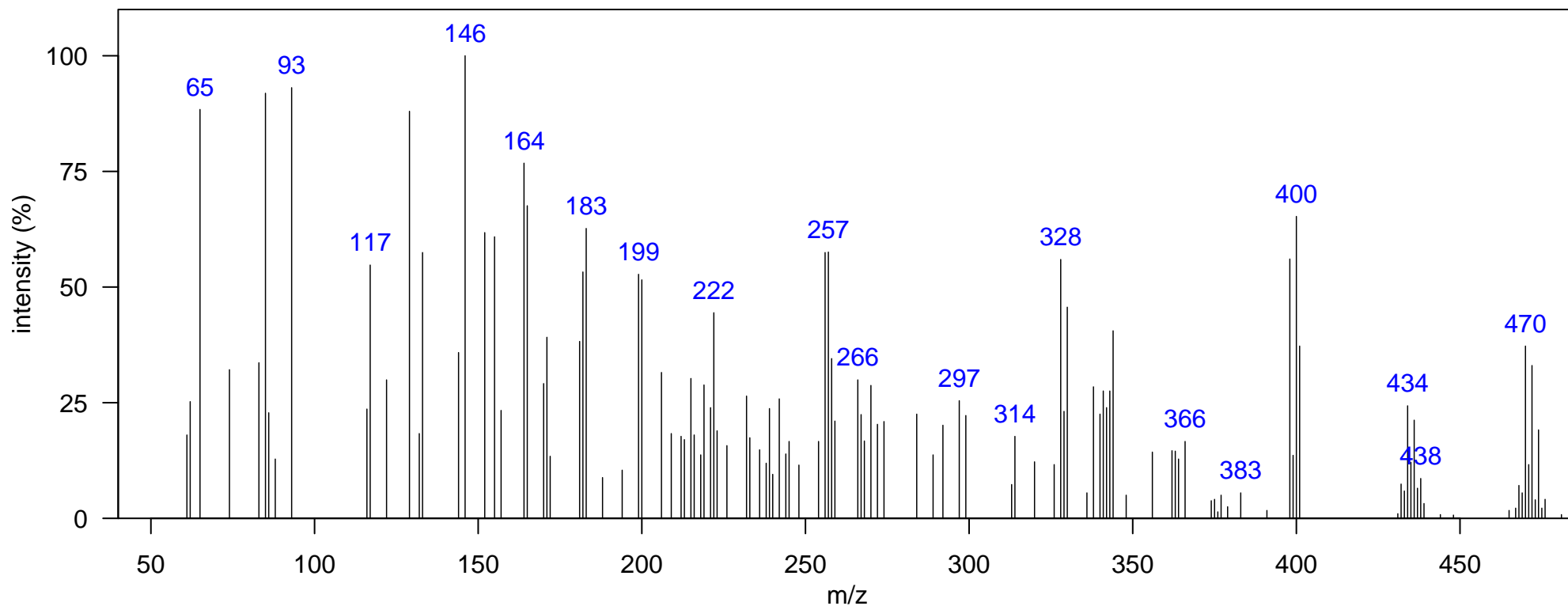
Name: terphenyl 7Cl 1

Class: PCT

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1726.36, 1.888  
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>

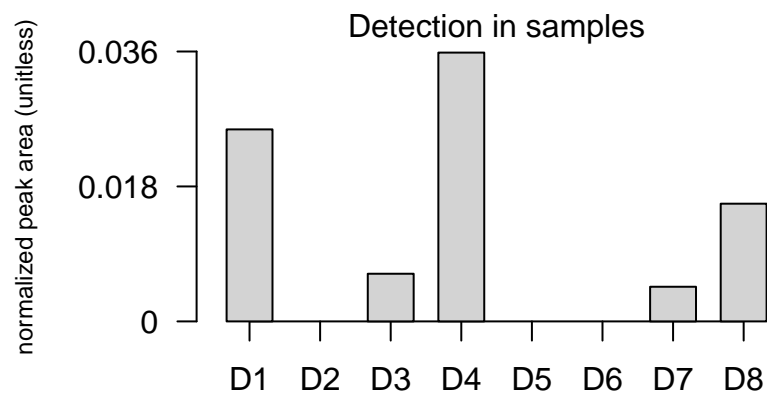
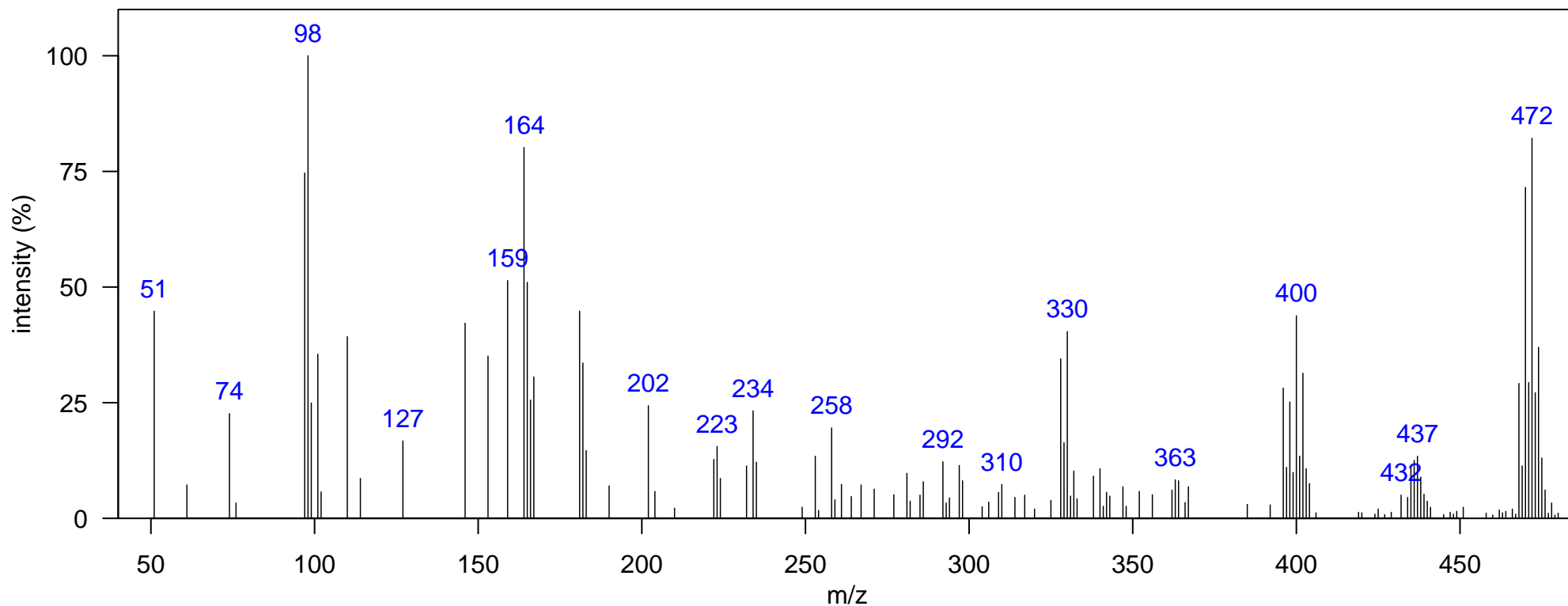
Name: terphenyl 7Cl 2

Class: PCT

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

1D RT, 2D RT (s): 1789.32, 2.006  
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>

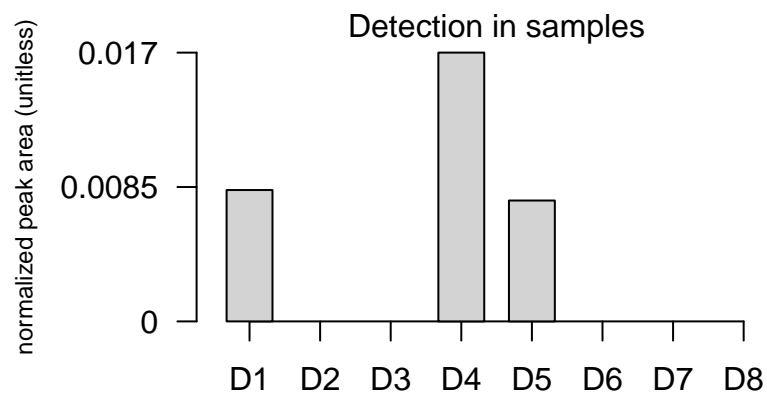
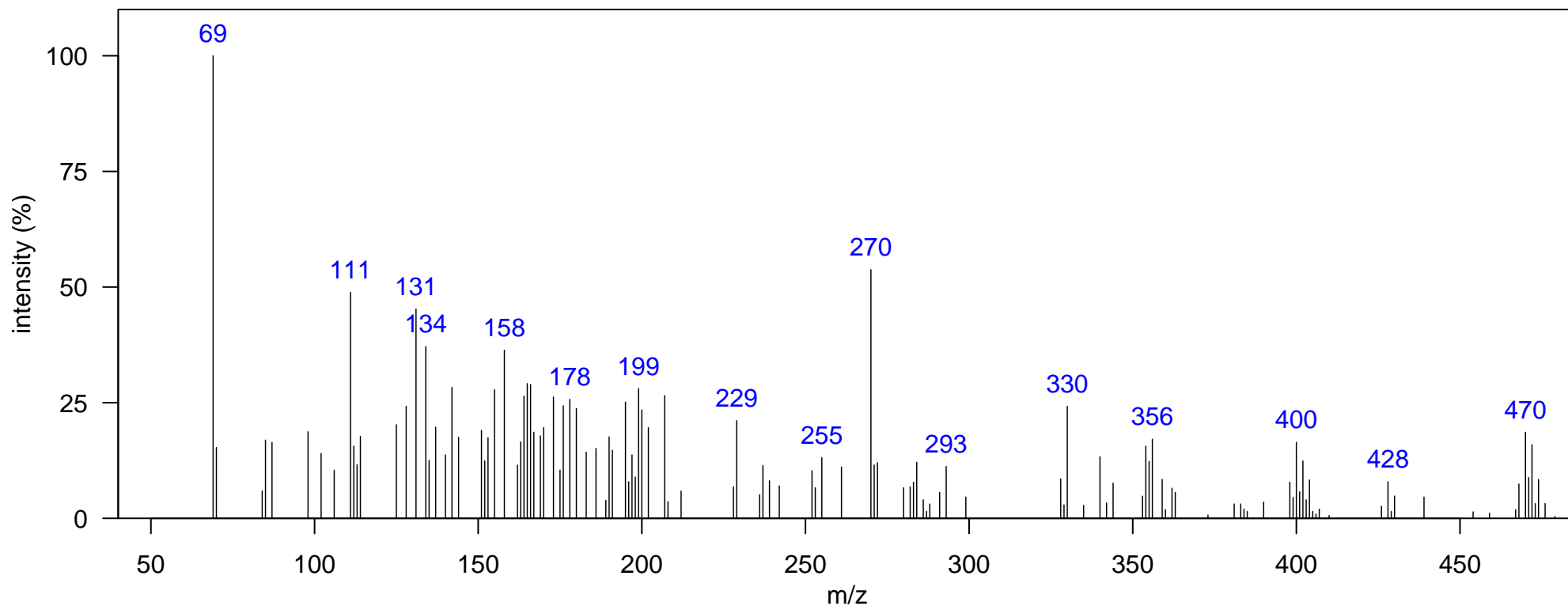
Name: terphenyl 7Cl 3

Class: PCT

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

1D RT, 2D RT (s): 1799.81, 2.092  
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>

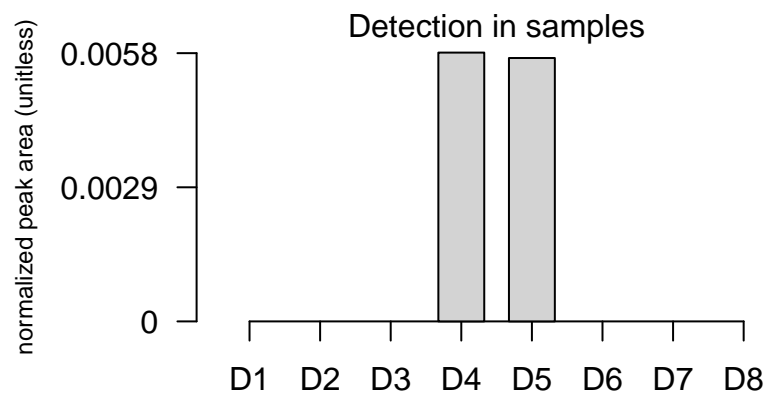
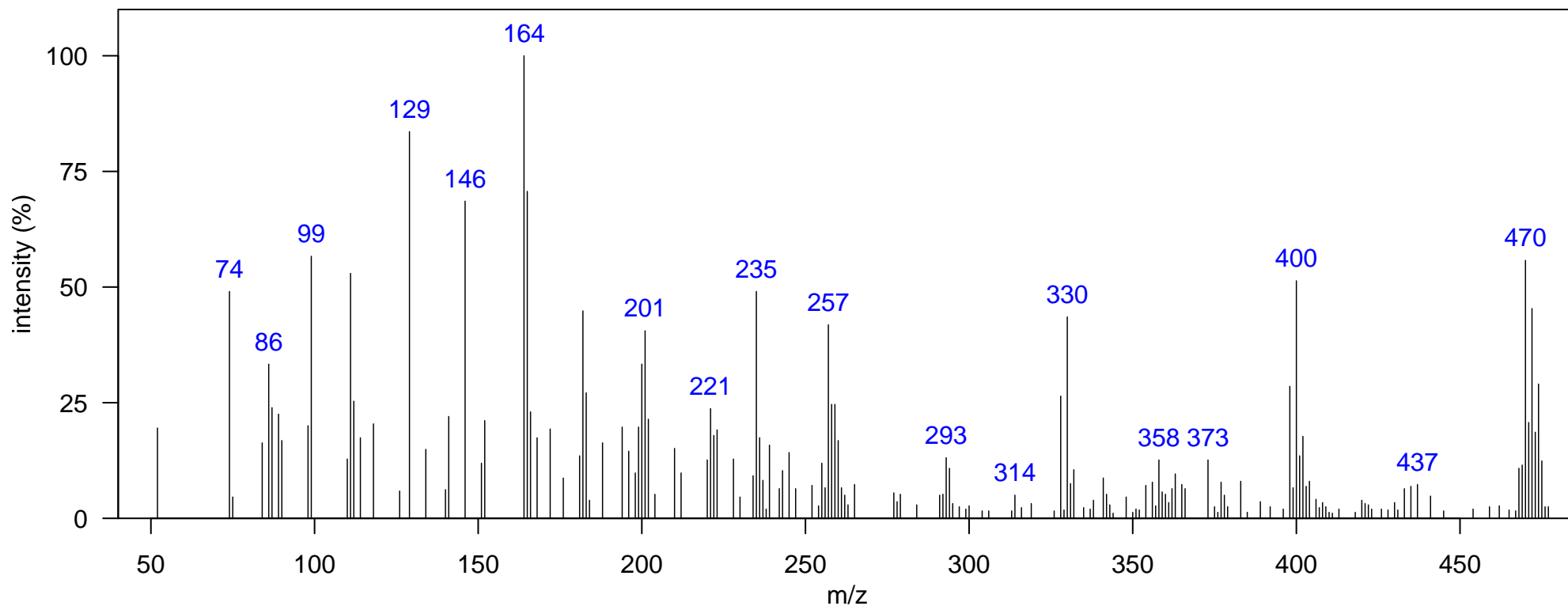
Name: terphenyl 7Cl 4

Class: PCT

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

1D RT, 2D RT (s): 1820.8, 2.053  
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>

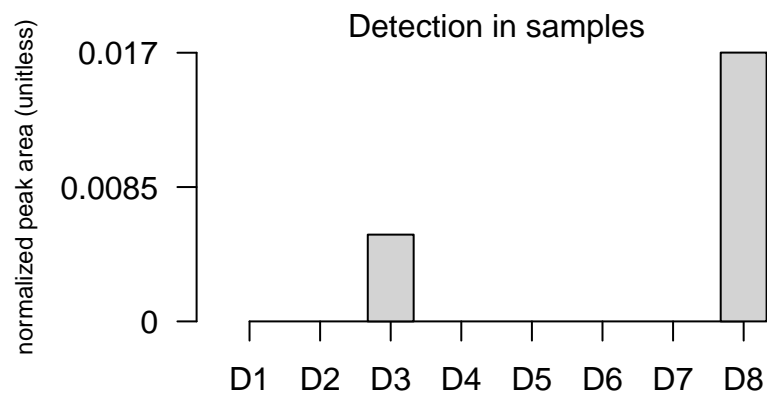
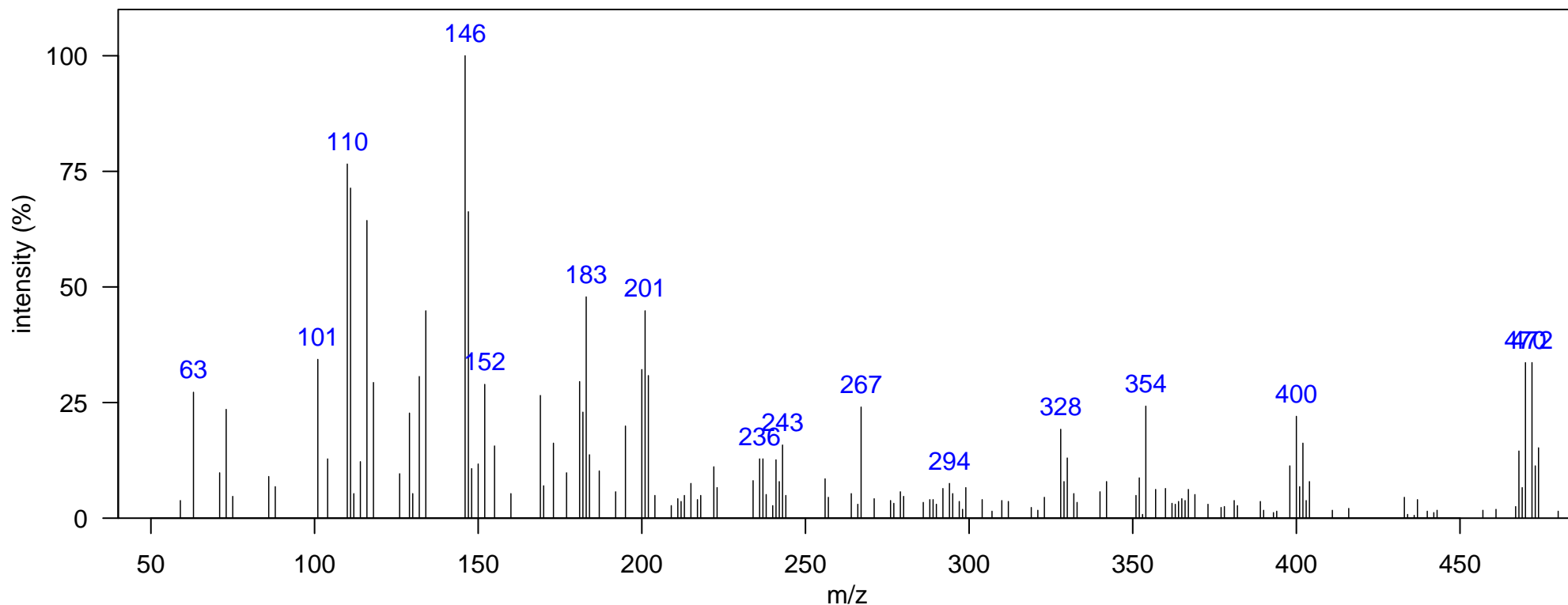
Name: terphenyl 7Cl 5

Class: PCT

Sample: SoCal dolphin blubber D3,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1838.29, 2.237  
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>



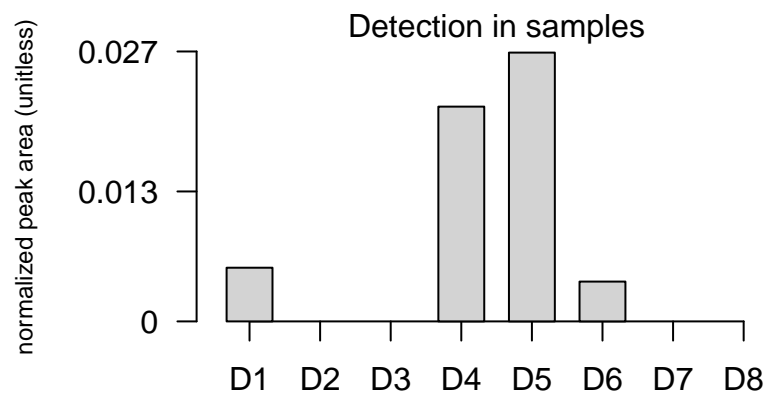
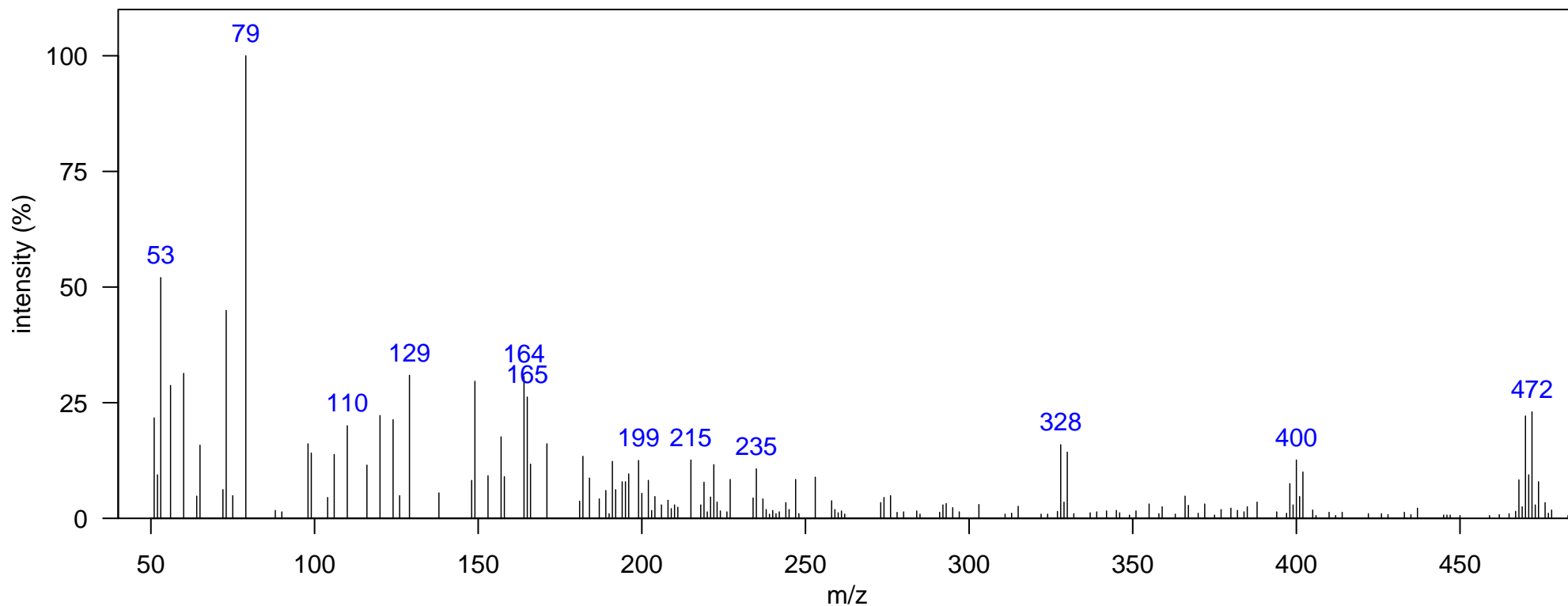
Name: terphenyl 7Cl 6

Class: PCT

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

1D RT, 2D RT (s): 1845.29, 2.244  
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>

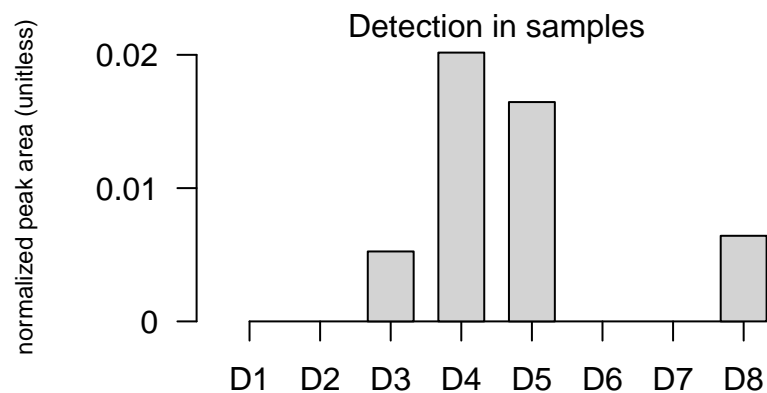
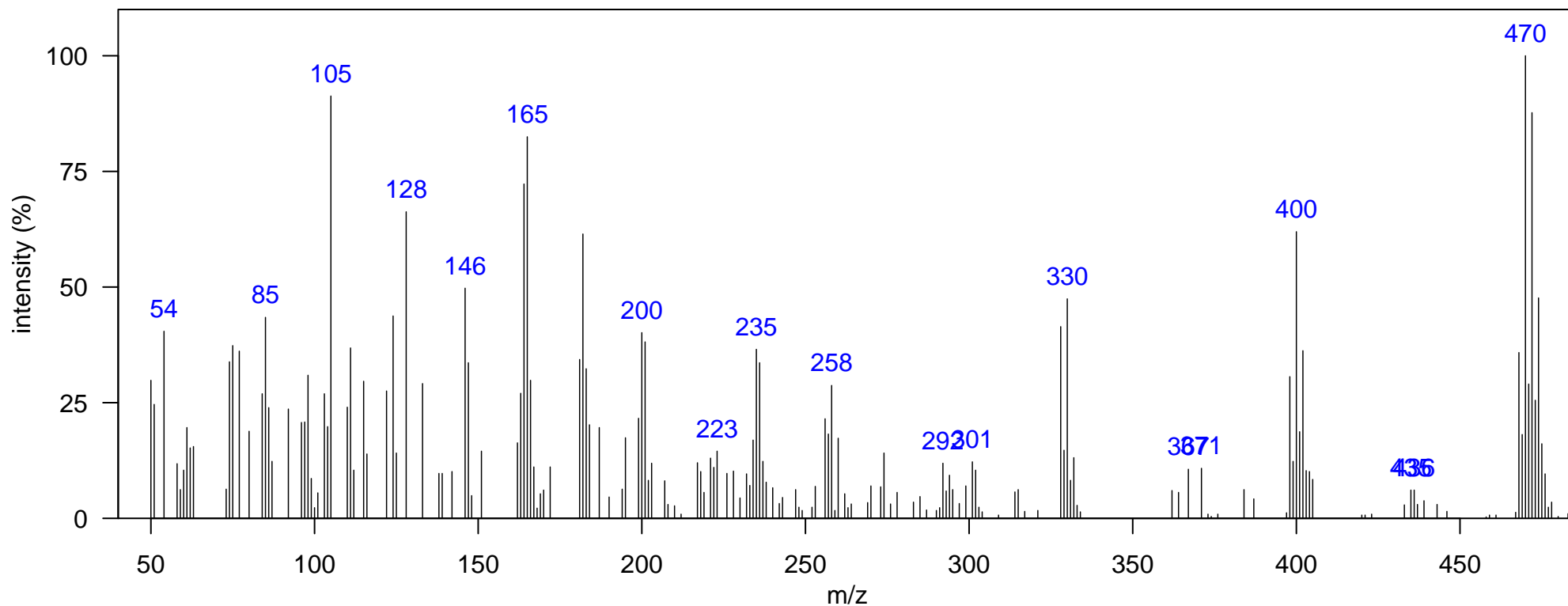
Name: terphenyl 7Cl 7

Class: PCT

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

1D RT, 2D RT (s): 1876.77, 2.396  
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>

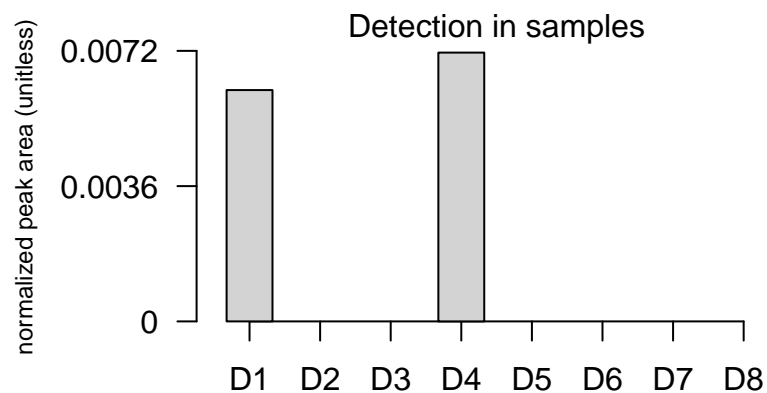
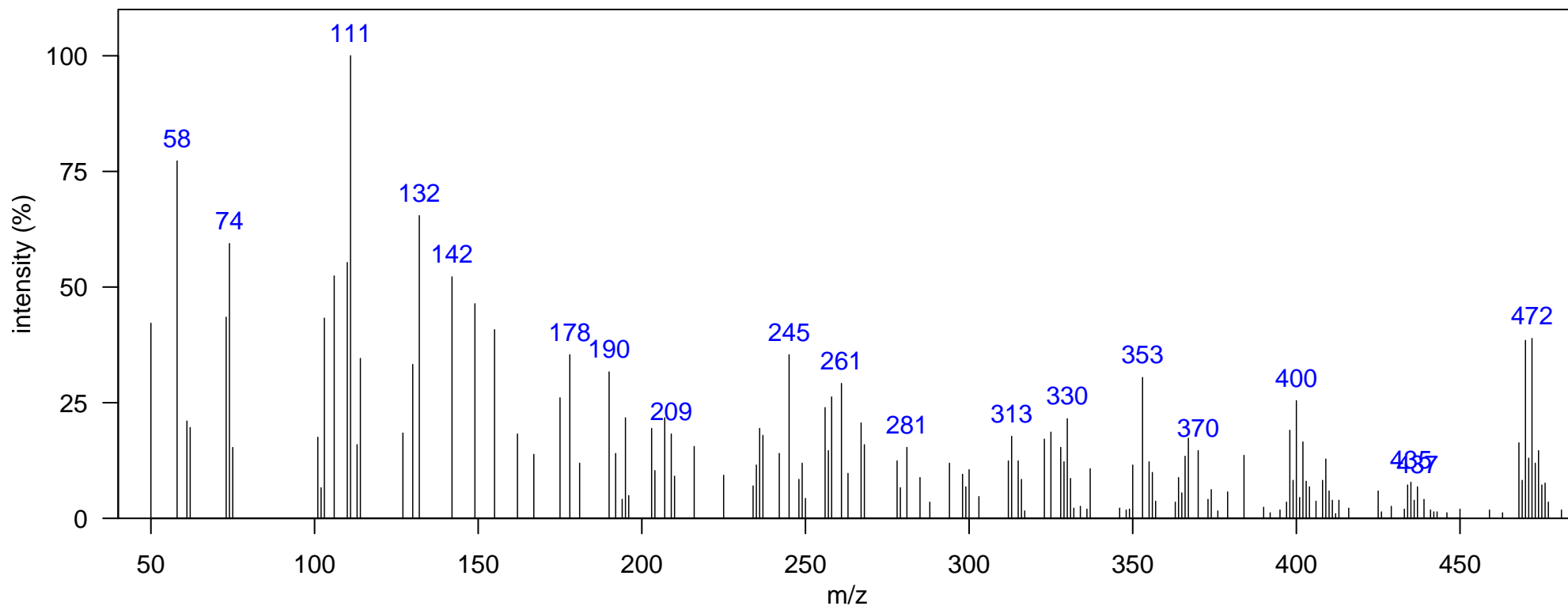
Name: terphenyl 7Cl 8

Class: PCT

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

1D RT, 2D RT (s): 1880.27, 2.475  
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>

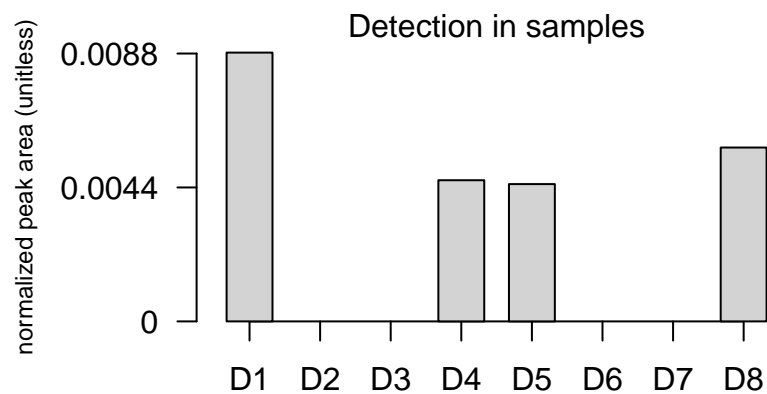
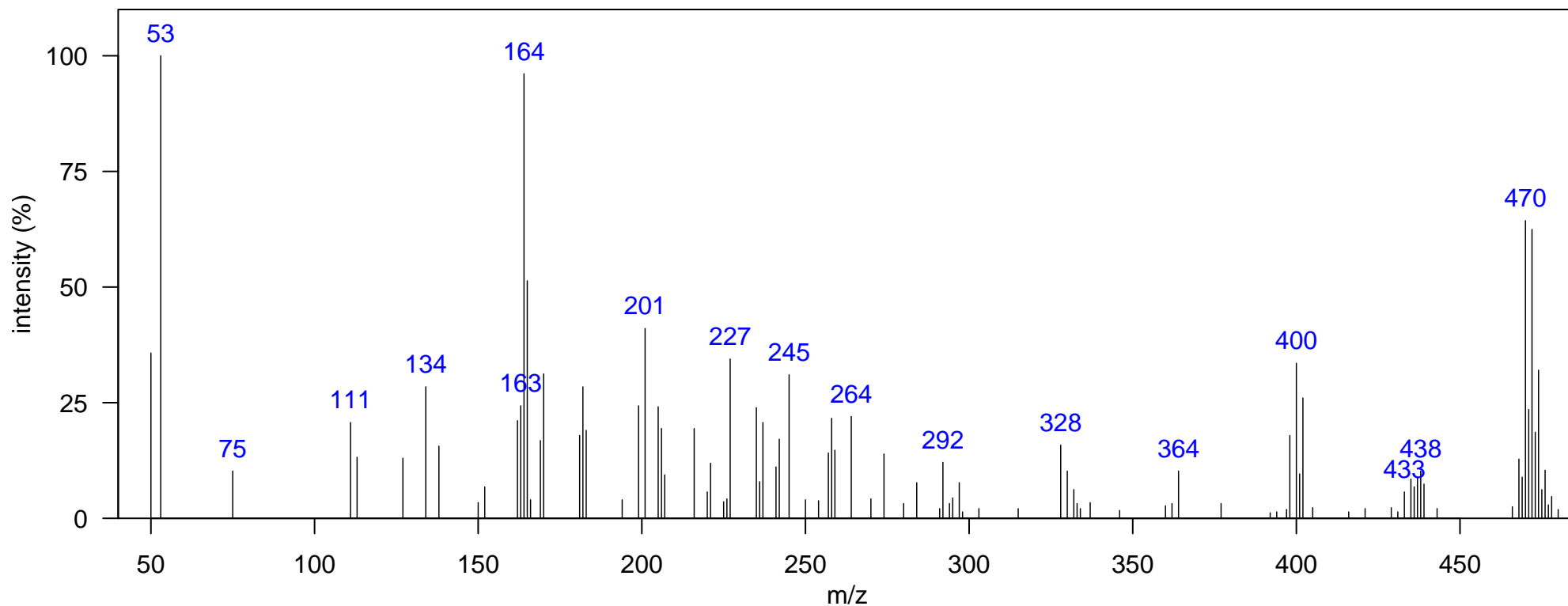
Name: terphenyl 7Cl 9

Class: PCT

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

1D RT, 2D RT (s): 1894.26, 2.614  
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>

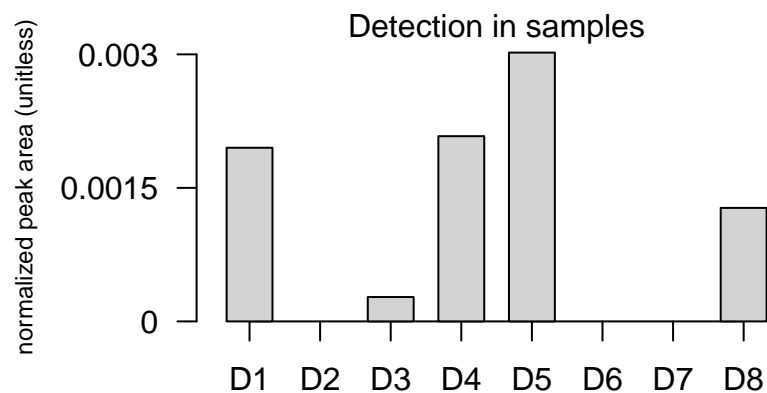
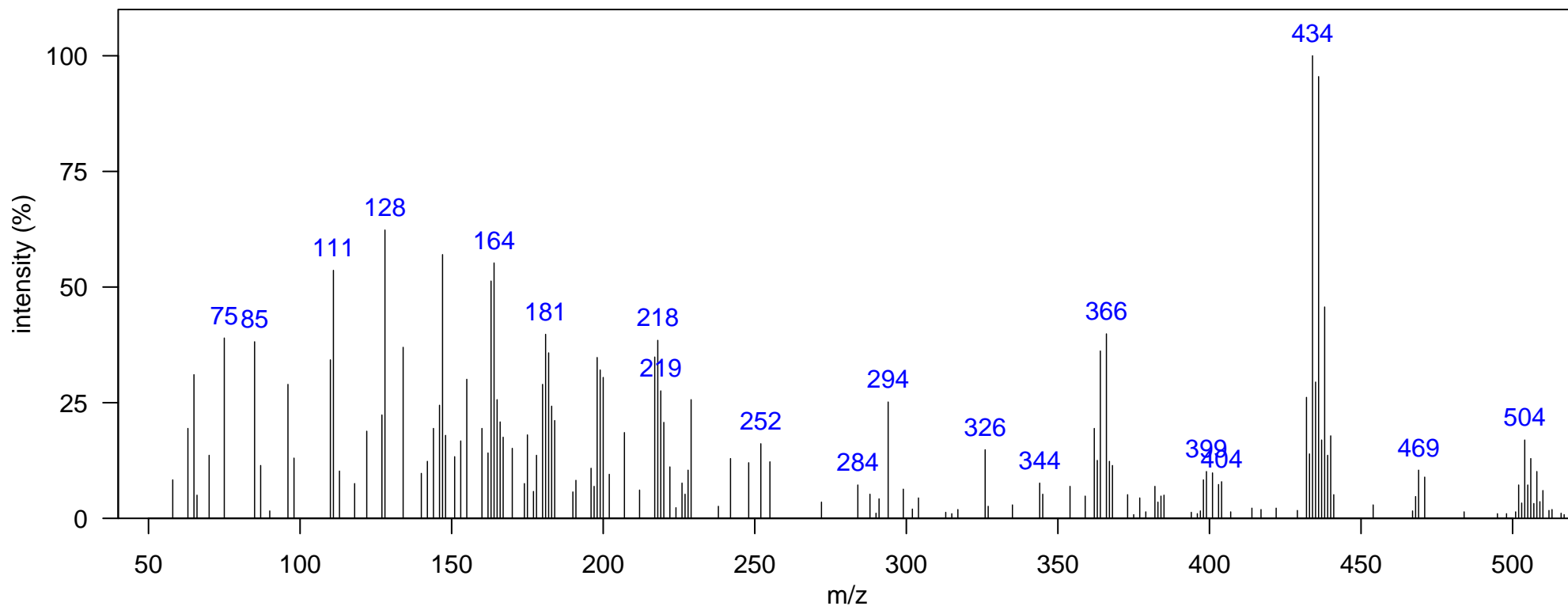
Name: terphenyl 8Cl 1

Class: PCT

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

1D RT, 2D RT (s): 1799.81, 2.033  
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>

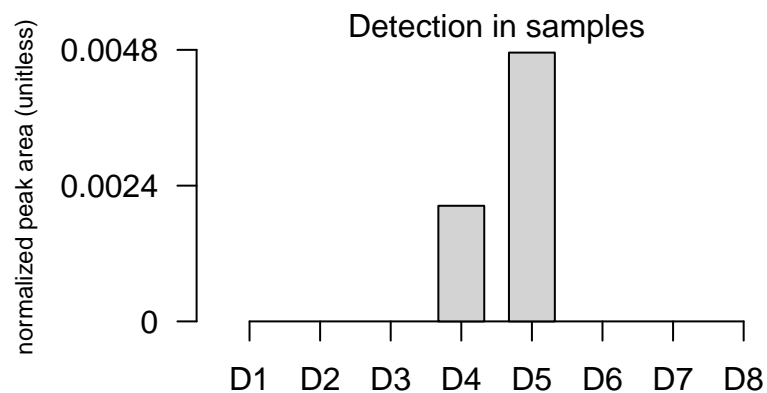
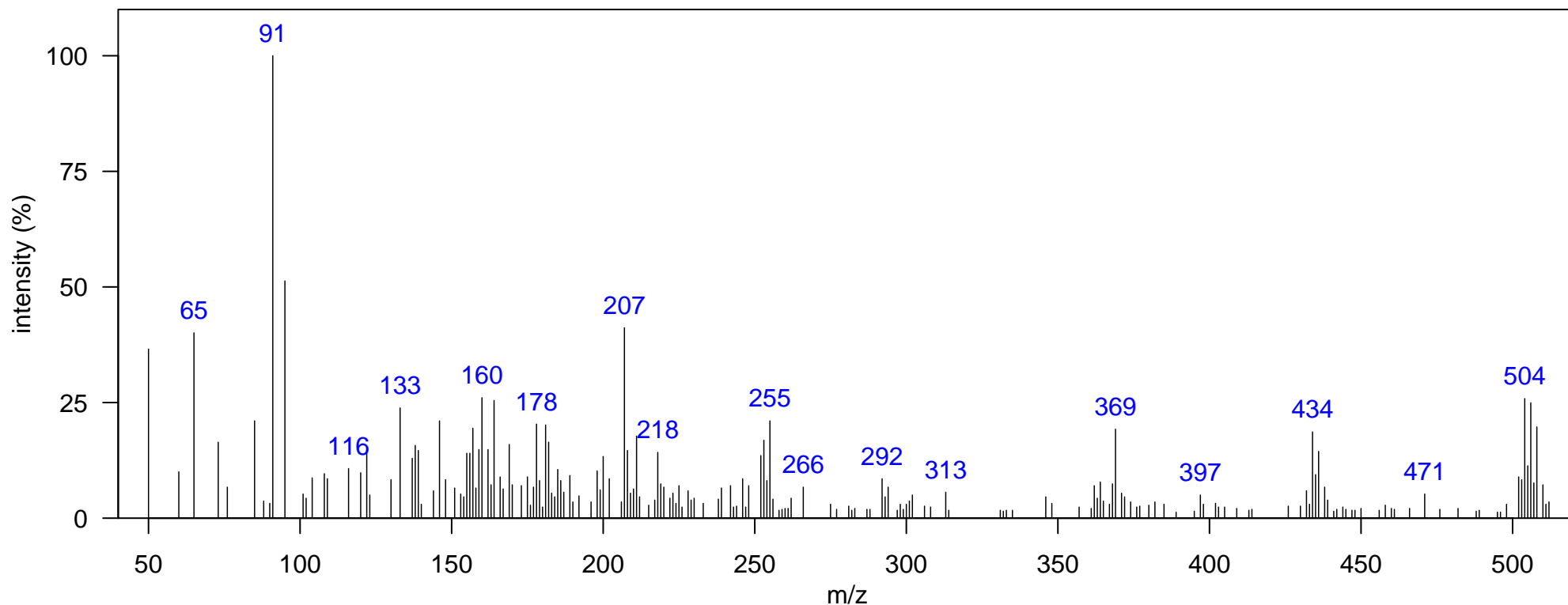
Name: terphenyl 8Cl 2

Class: PCT

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

1D RT, 2D RT (s): 1894.26, 2.435  
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>

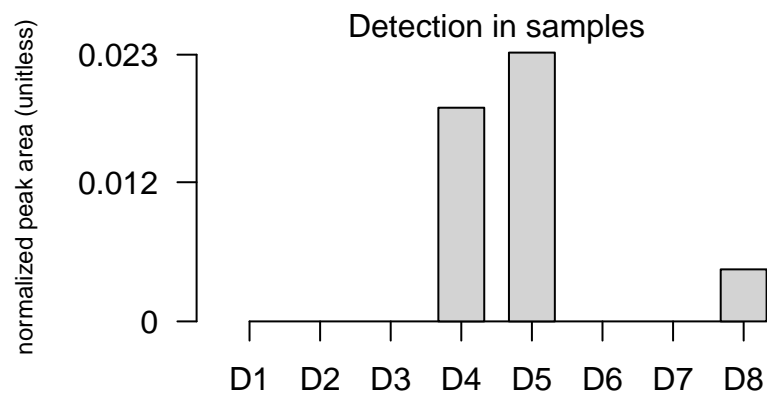
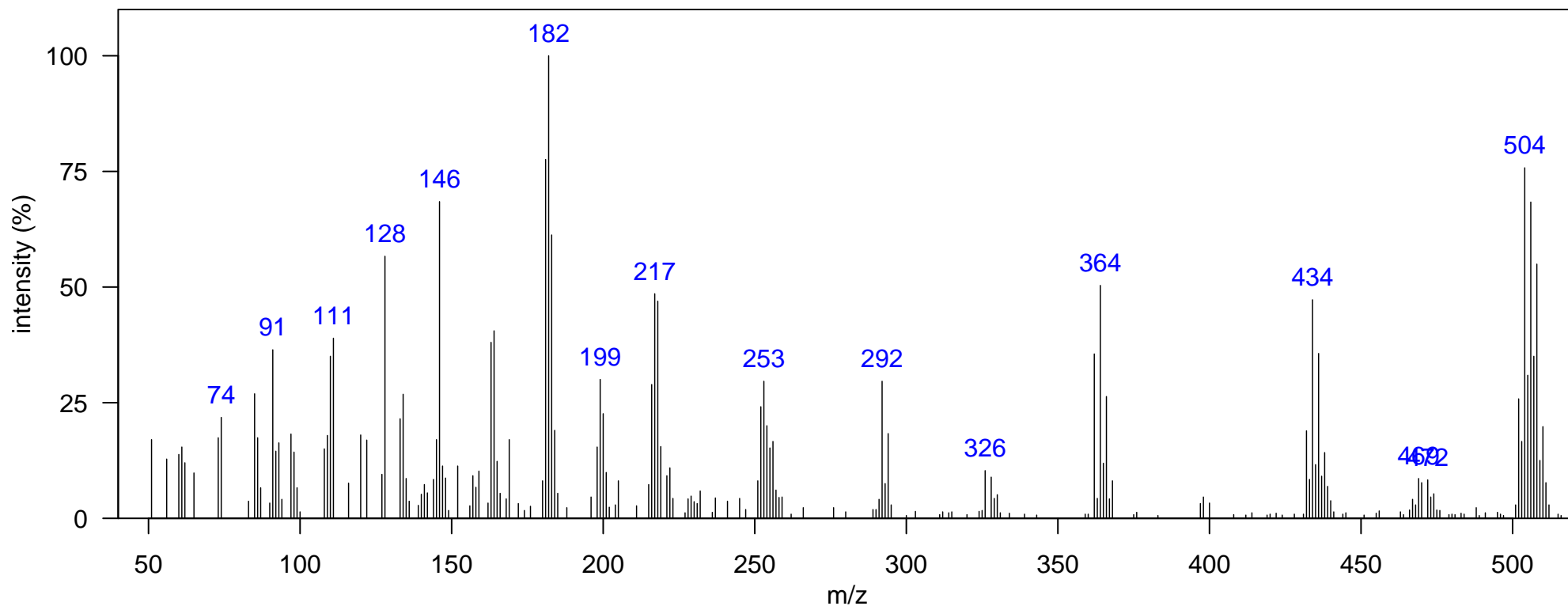
Name: terphenyl 8Cl 3

Class: PCT

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

1D RT, 2D RT (s): 1901.26, 2.455  
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>

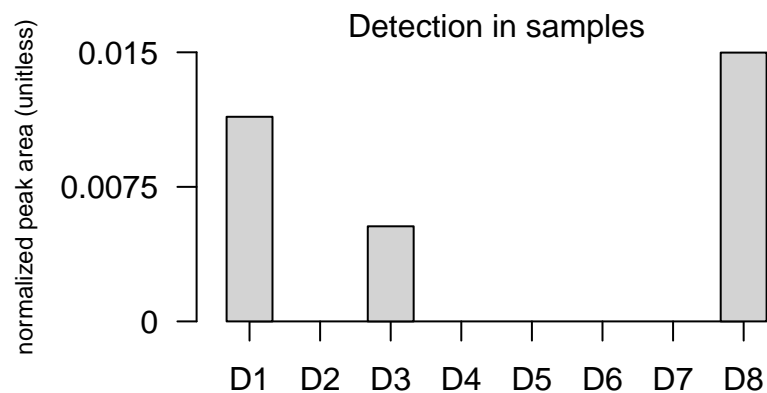
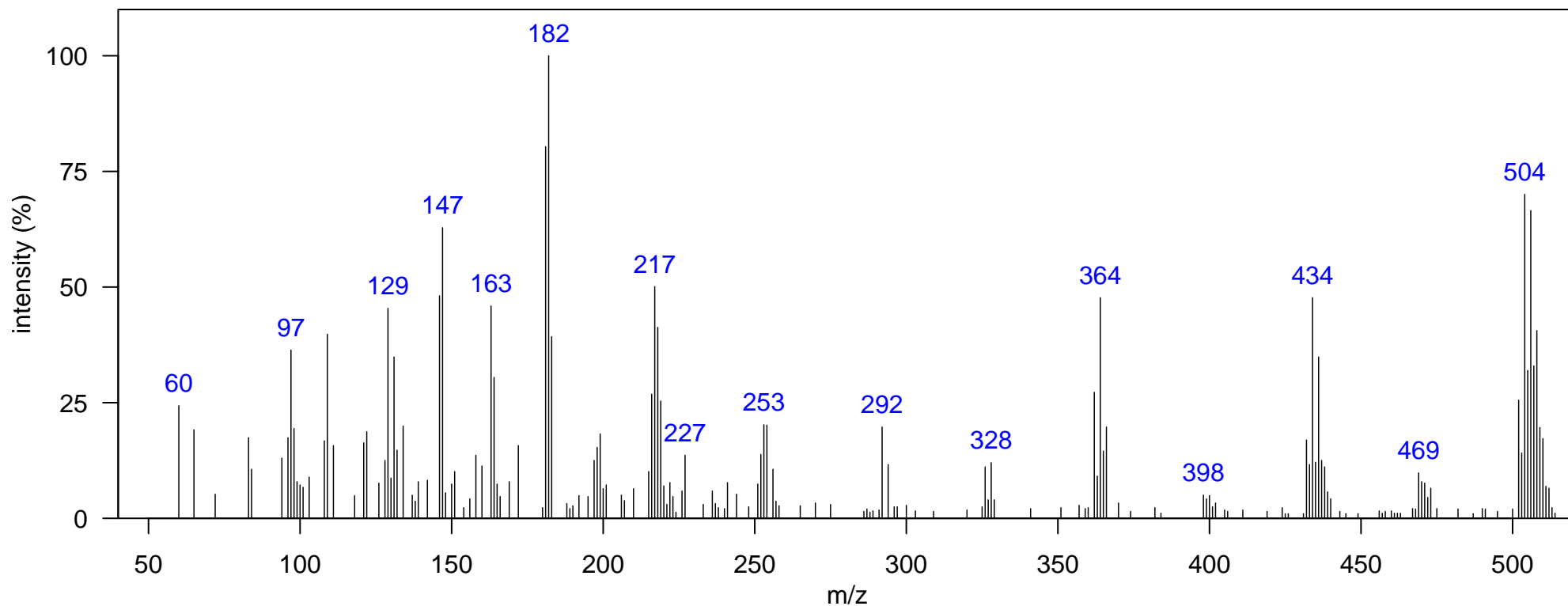
Name: terphenyl 8Cl 4

Class: PCT

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

1D RT, 2D RT (s): 1904.75, 2.475  
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>



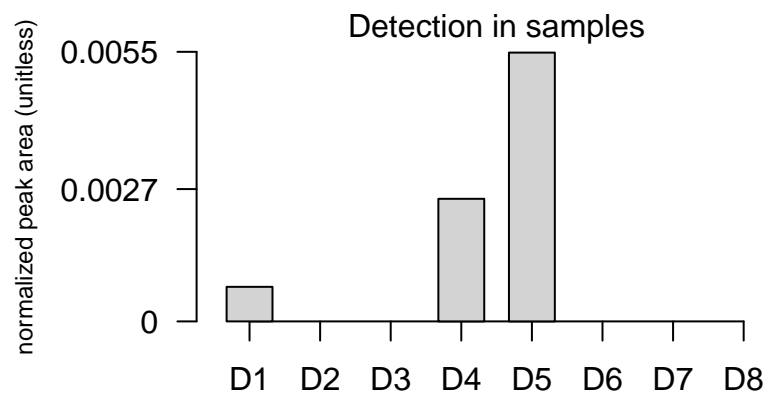
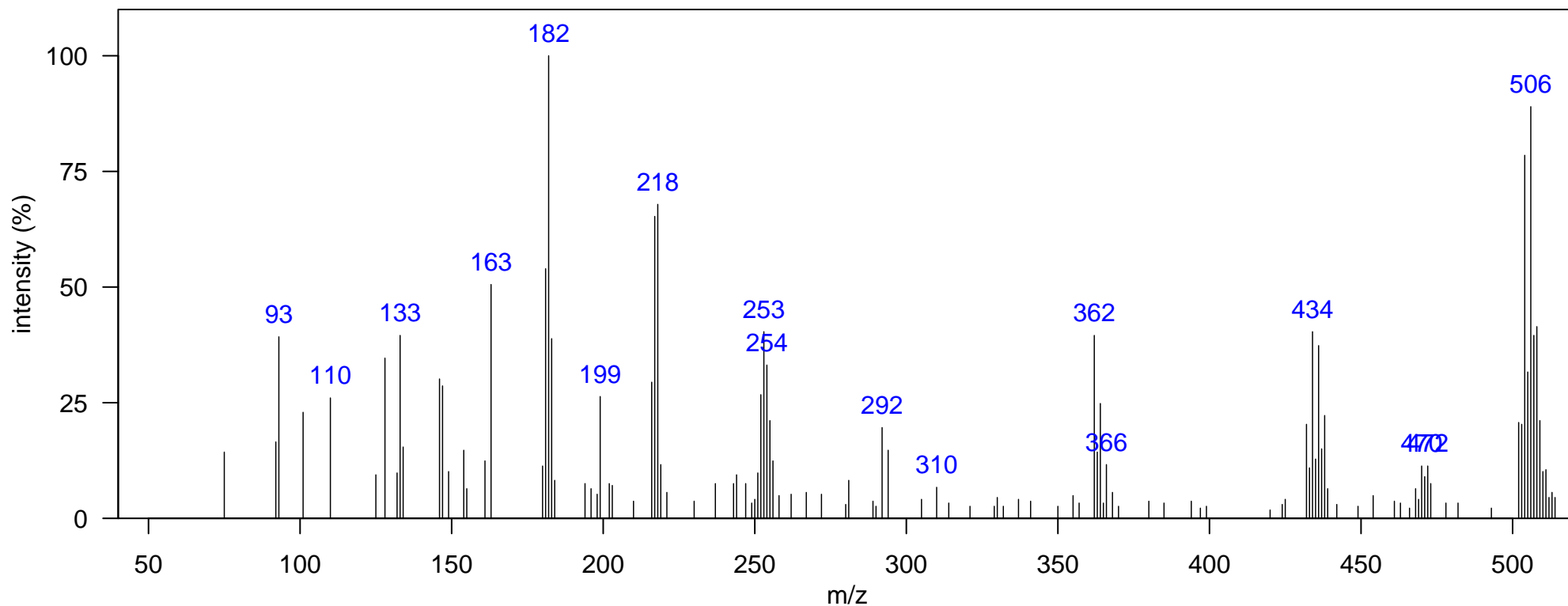
Name: terphenyl 8Cl 5

Class: PCT

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1964.22, 2.963  
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>

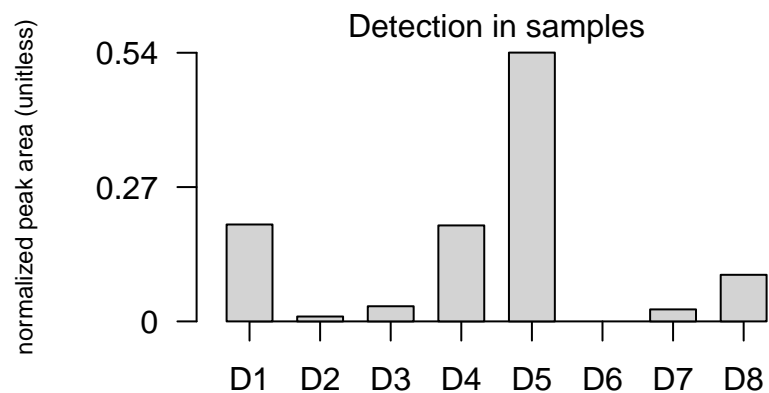
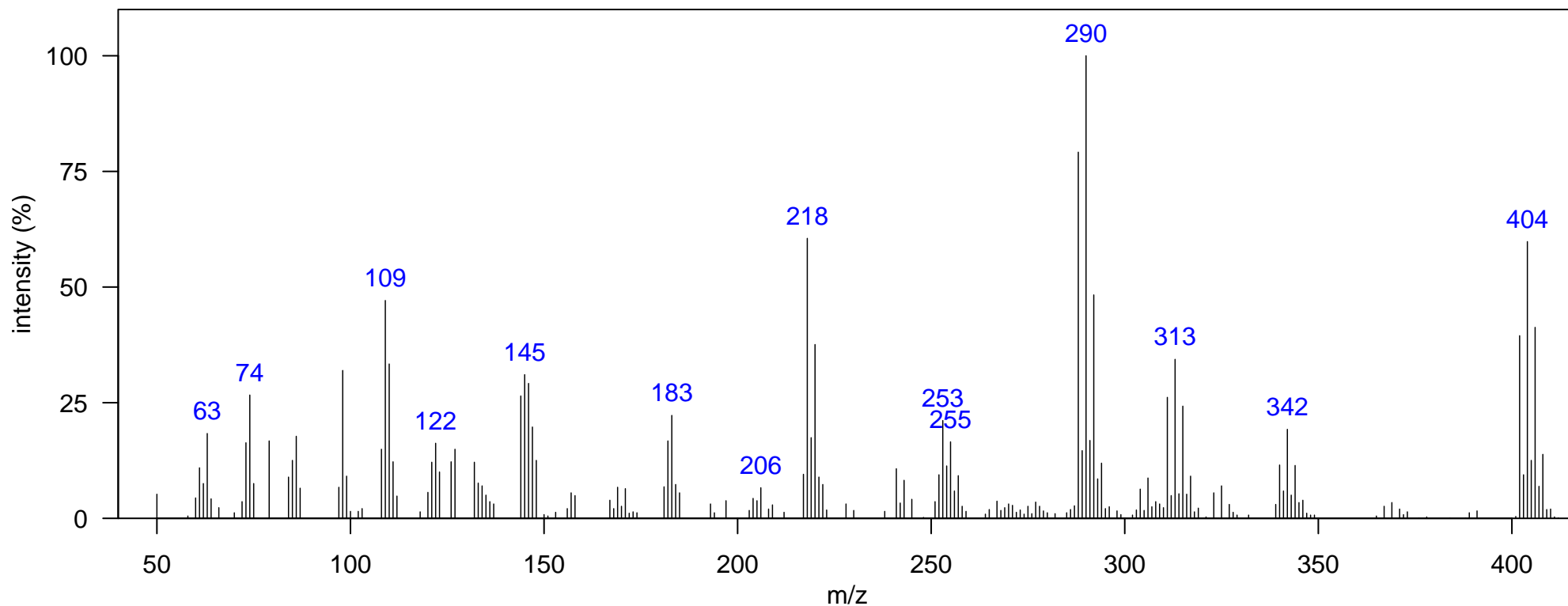
Name: methylsulfonylPCB-101

Class: Methylsulfonyl-PCB

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

1D RT, 2D RT (s): 1691.38, 2.165  
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 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>

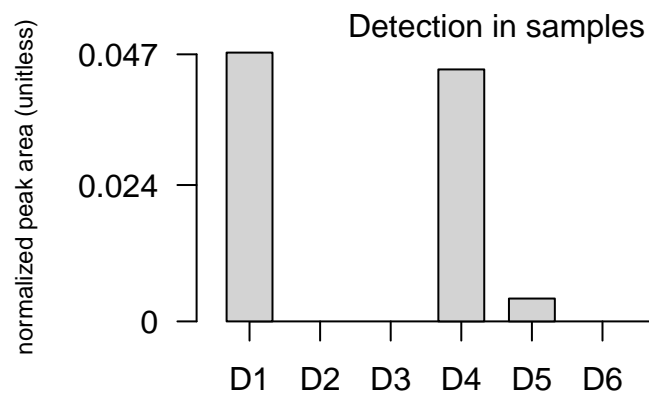
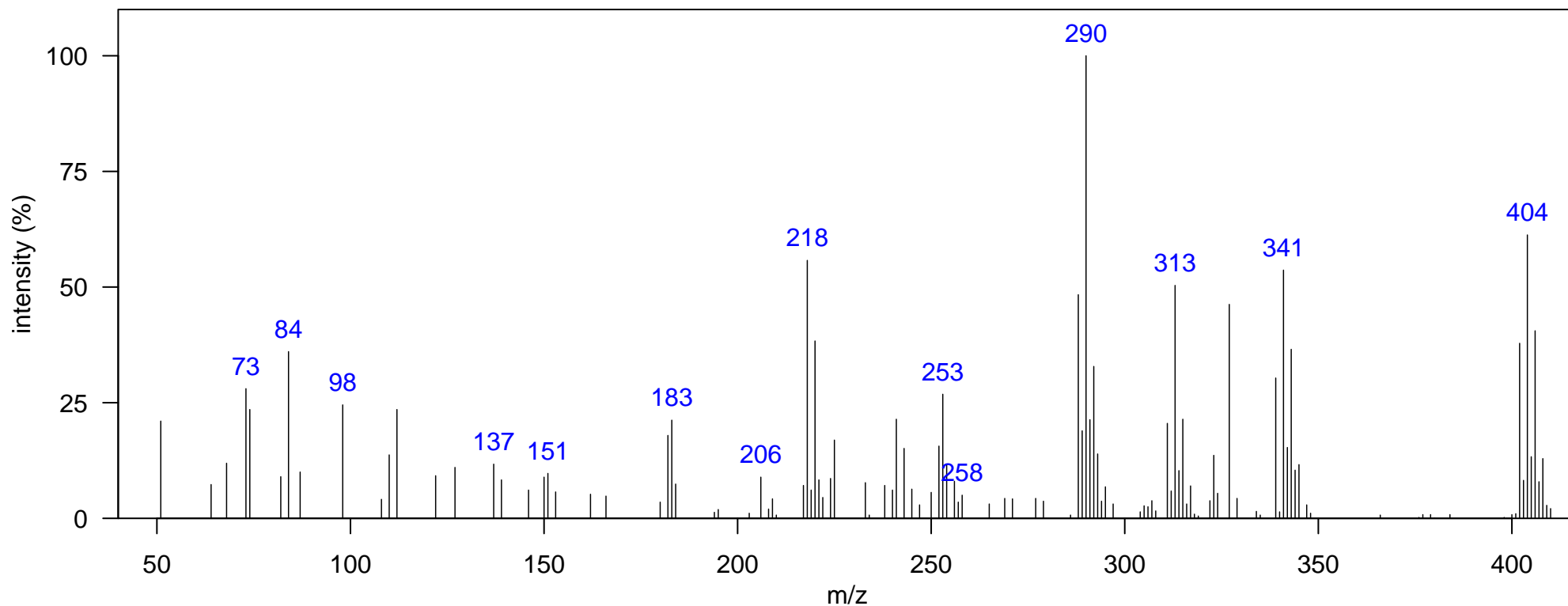
Name: methylsulfonylPCB 5Cl 1

Class: Methylsulfonyl-PCB

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

1D RT, 2D RT (s): 1708.87, 2.211  
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>

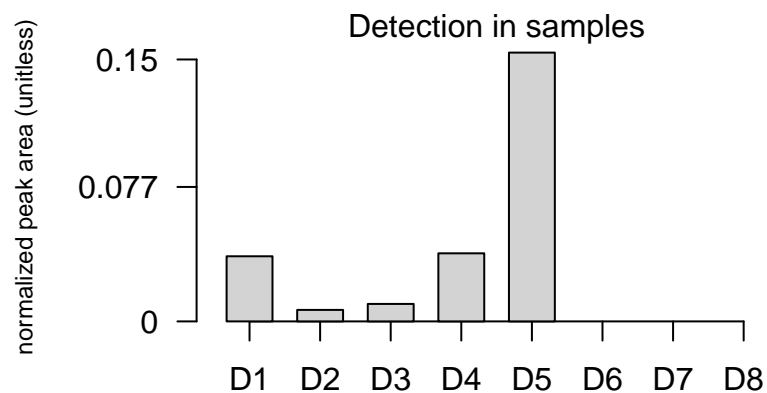
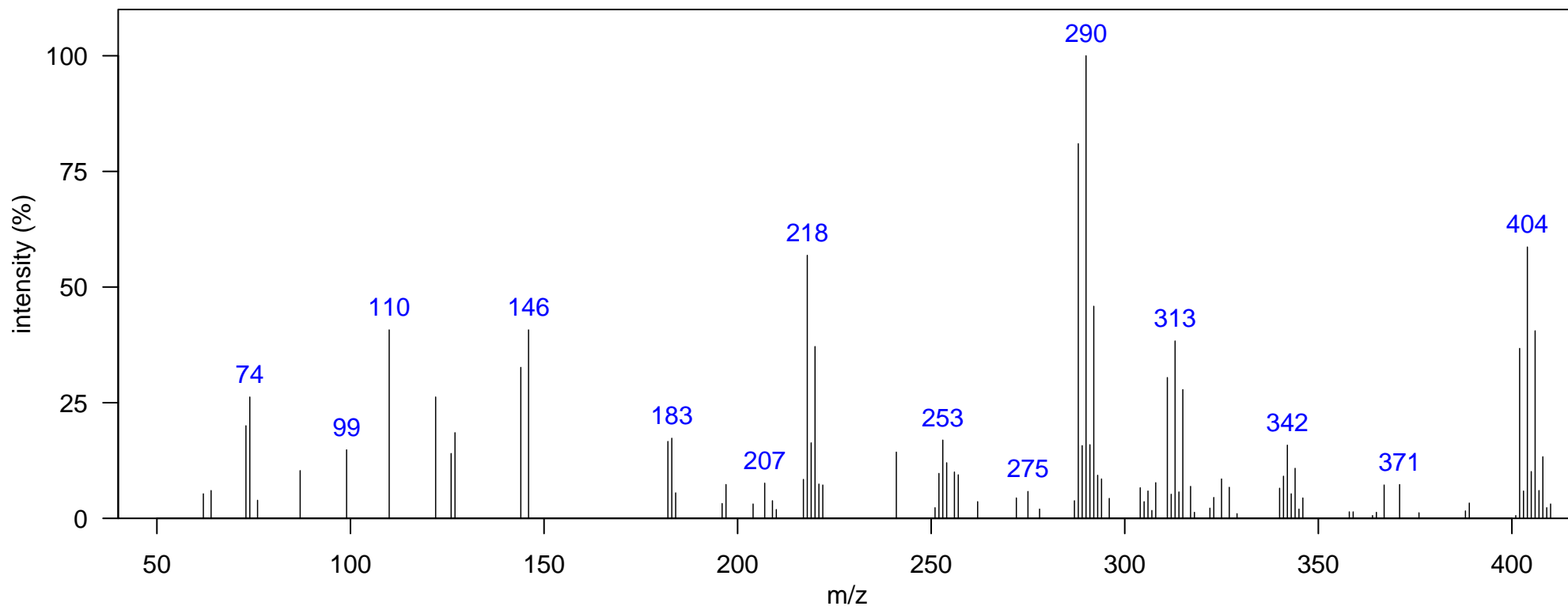
Name: methylsulfonylPCB 5Cl 2

Class: Methylsulfonyl-PCB

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

1D RT, 2D RT (s): 1729.85, 2.231  
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>

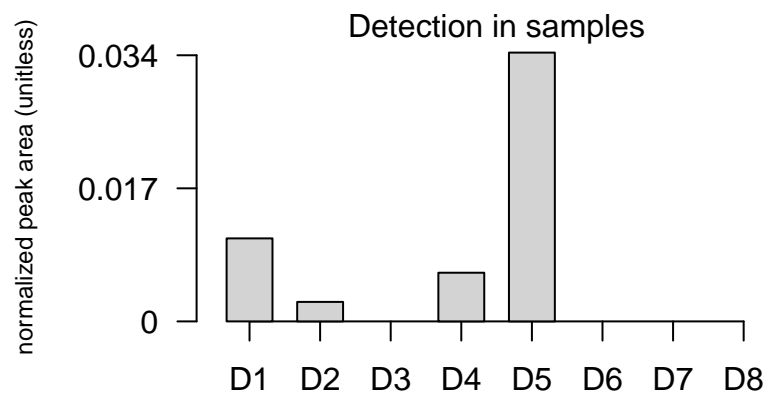
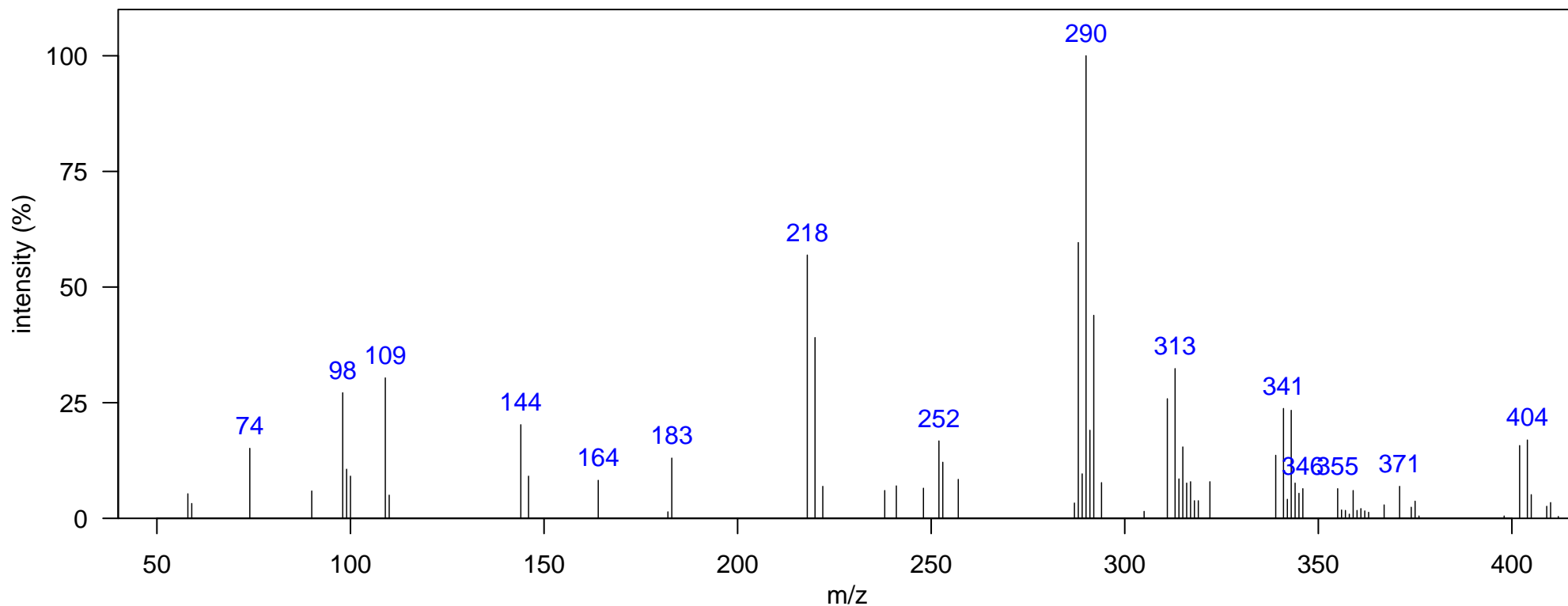
Name: methylsulfonylPCB 5Cl 3

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1747.34, 2.165  
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>

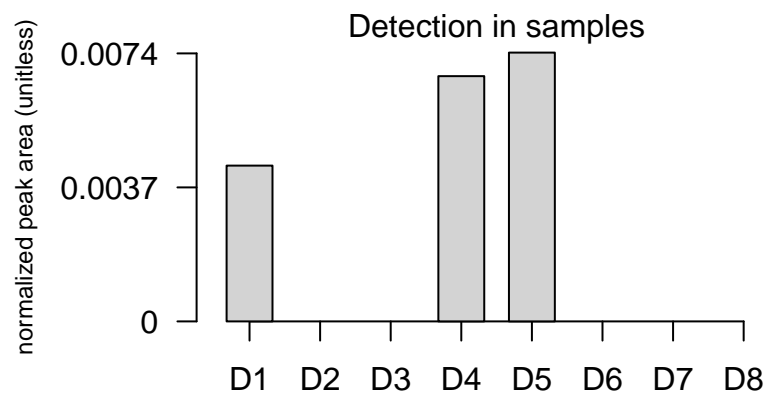
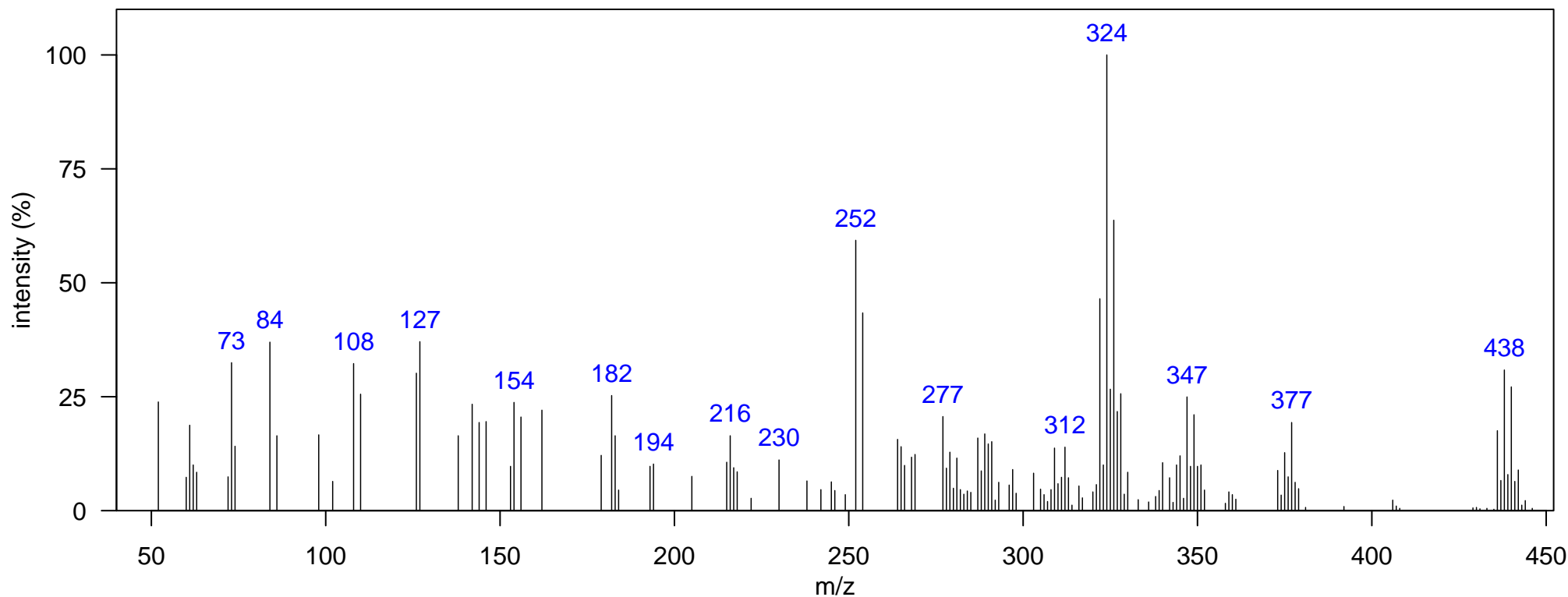
Name: methylsulfonylPCB 6Cl 1

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1740.35, 2.02  
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>

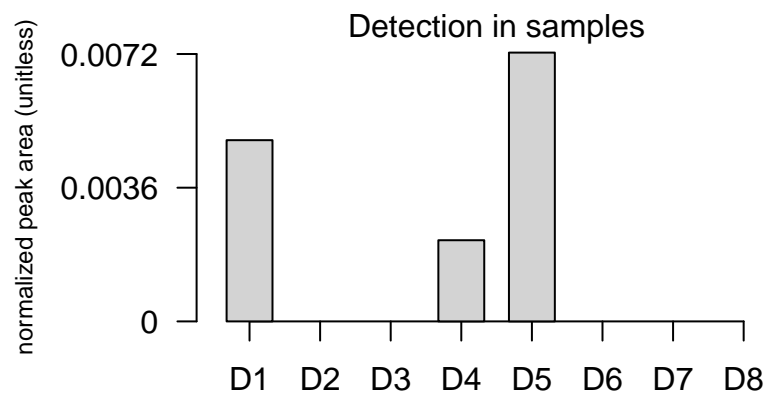
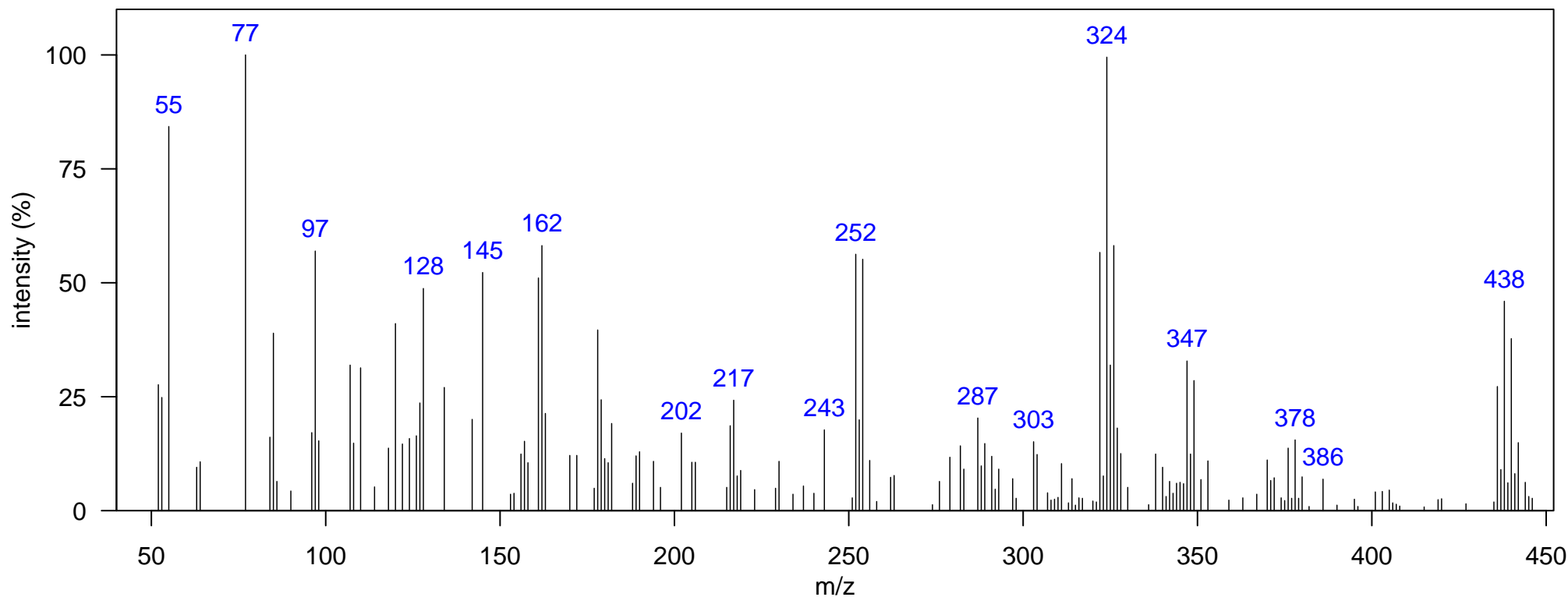
Name: methylsulfonylPCB 6Cl 2

Class: Methylsulfonyl-PCB

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1806.81, 2.31  
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,

1D RT, 2D RT (s): 1645.9, 1.861

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

Ecotype: coastal

Quantitative Ion m/z: 223

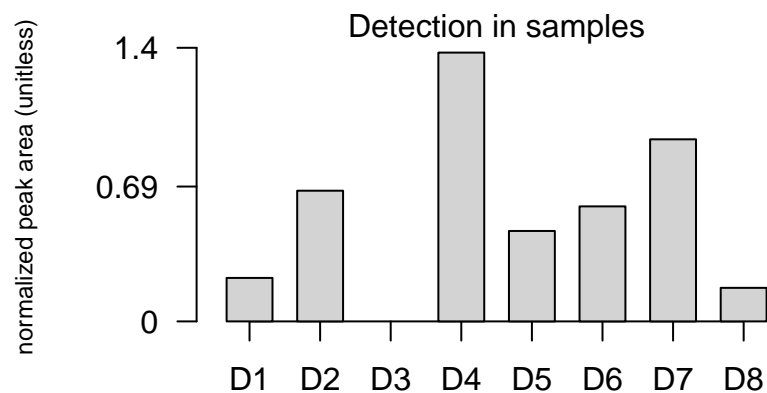
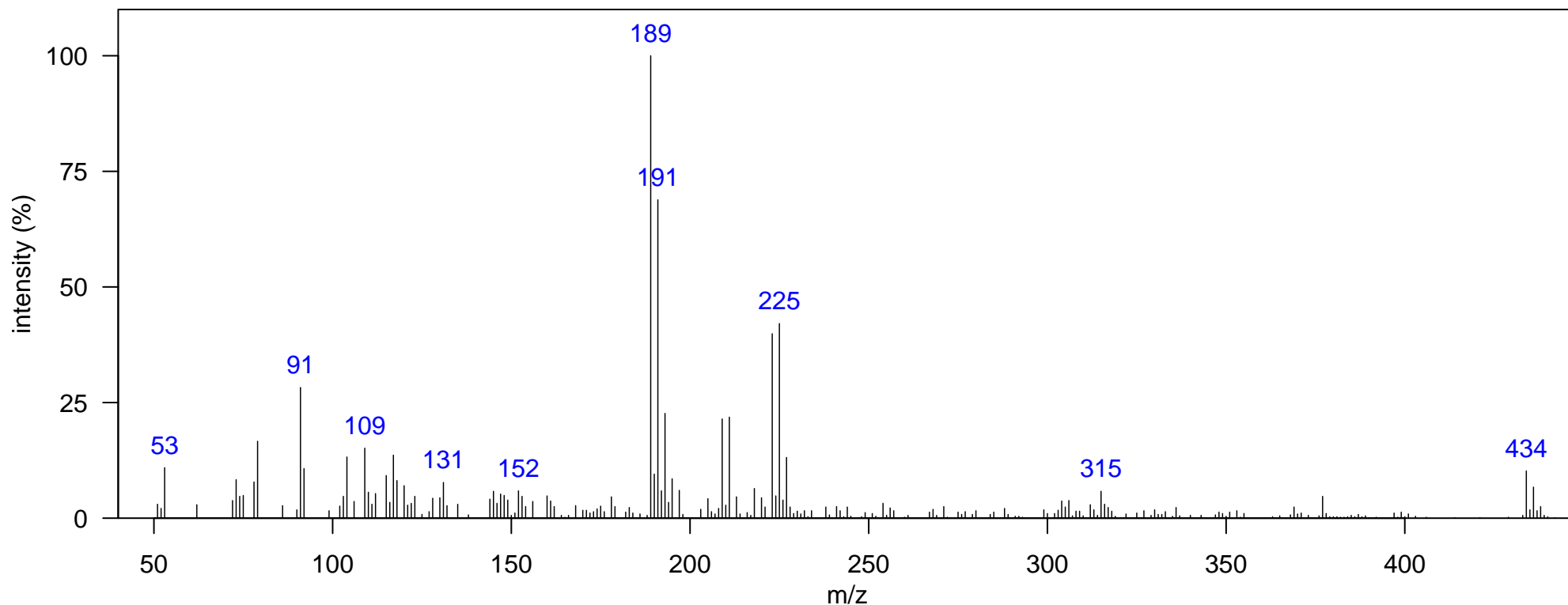
Source: anthropogenic

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Reference Database MS

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



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>



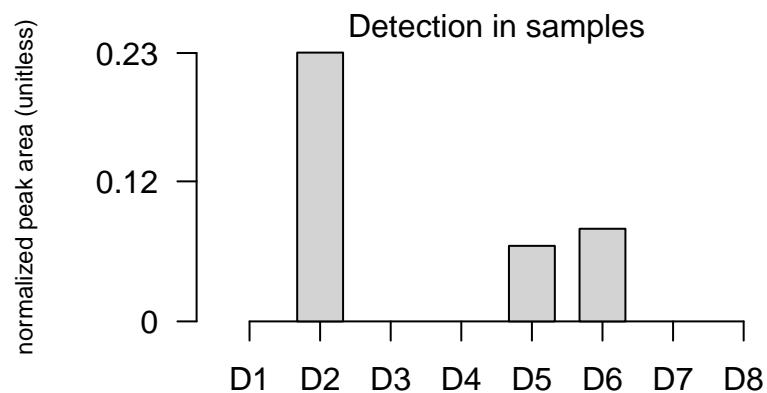
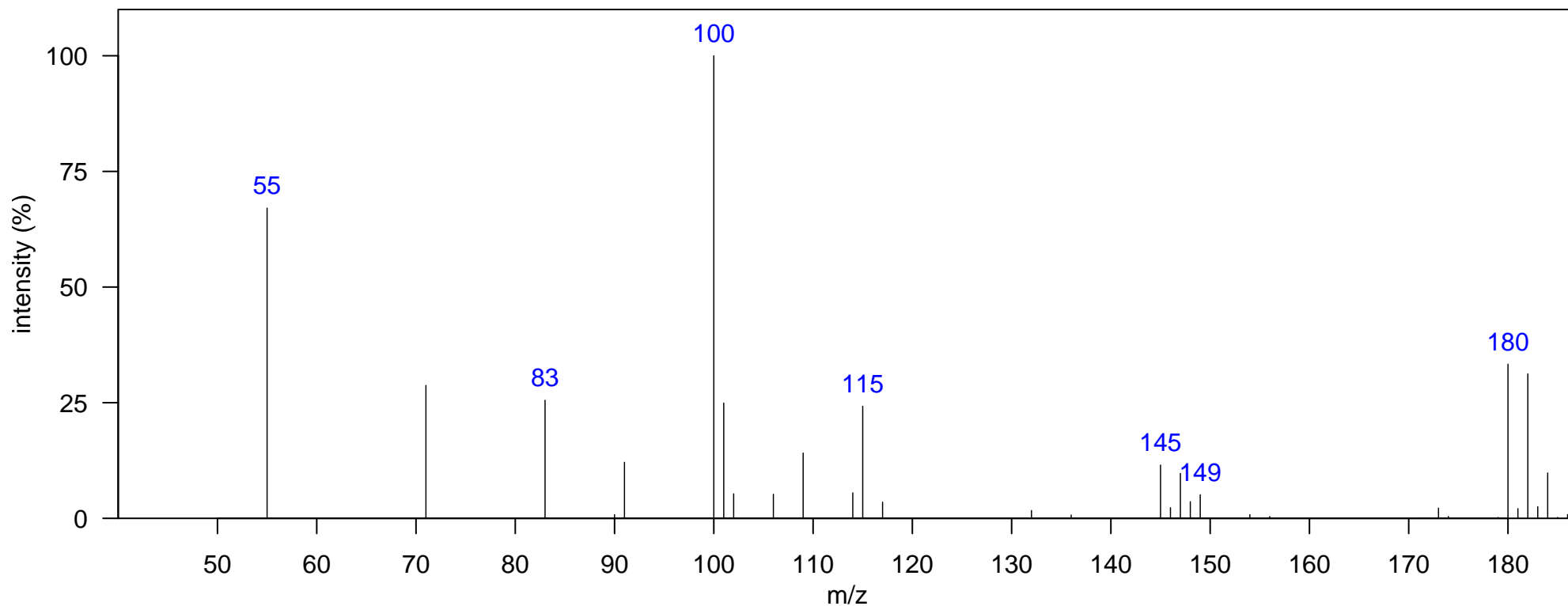
Name: 1,2,4-trichlorobenzene

Class: Chlorinated benzene

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 697.94, 1.003  
Quantitative Ion m/z: 182  
Atlantic Lib:

Elemental Formula: C<sub>6</sub>H<sub>3</sub>Cl<sub>3</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



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

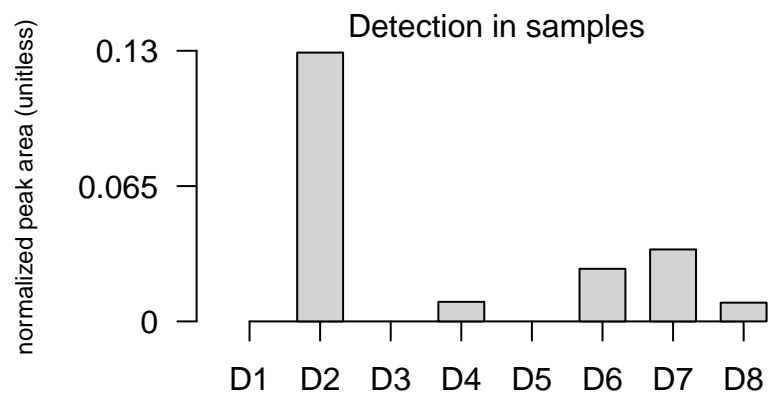
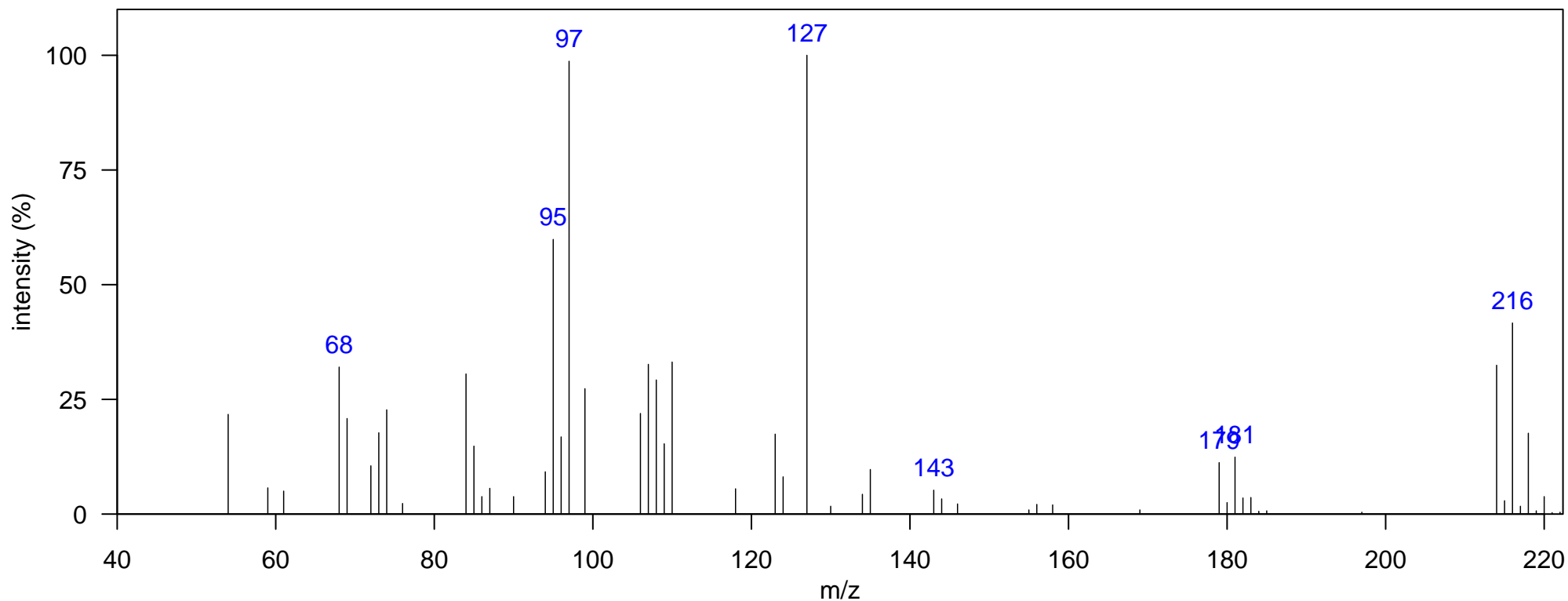
Name: 1,2,3,4-tetrachlorobenzene

Class: Chlorinated benzene

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 865.85, 1.076  
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] <sup>+</sup>
214 M <sup>+</sup>

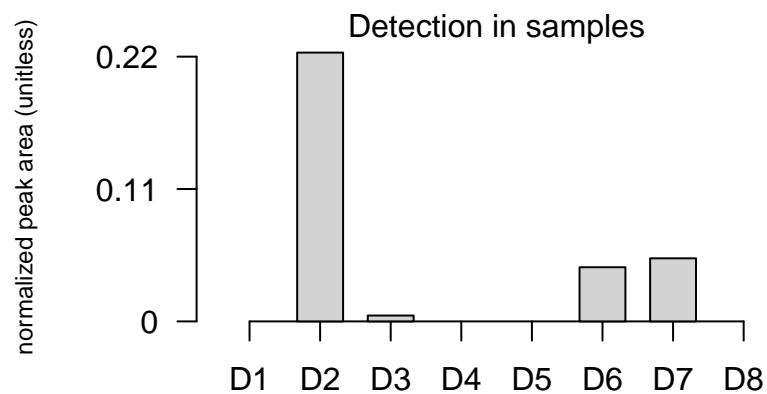
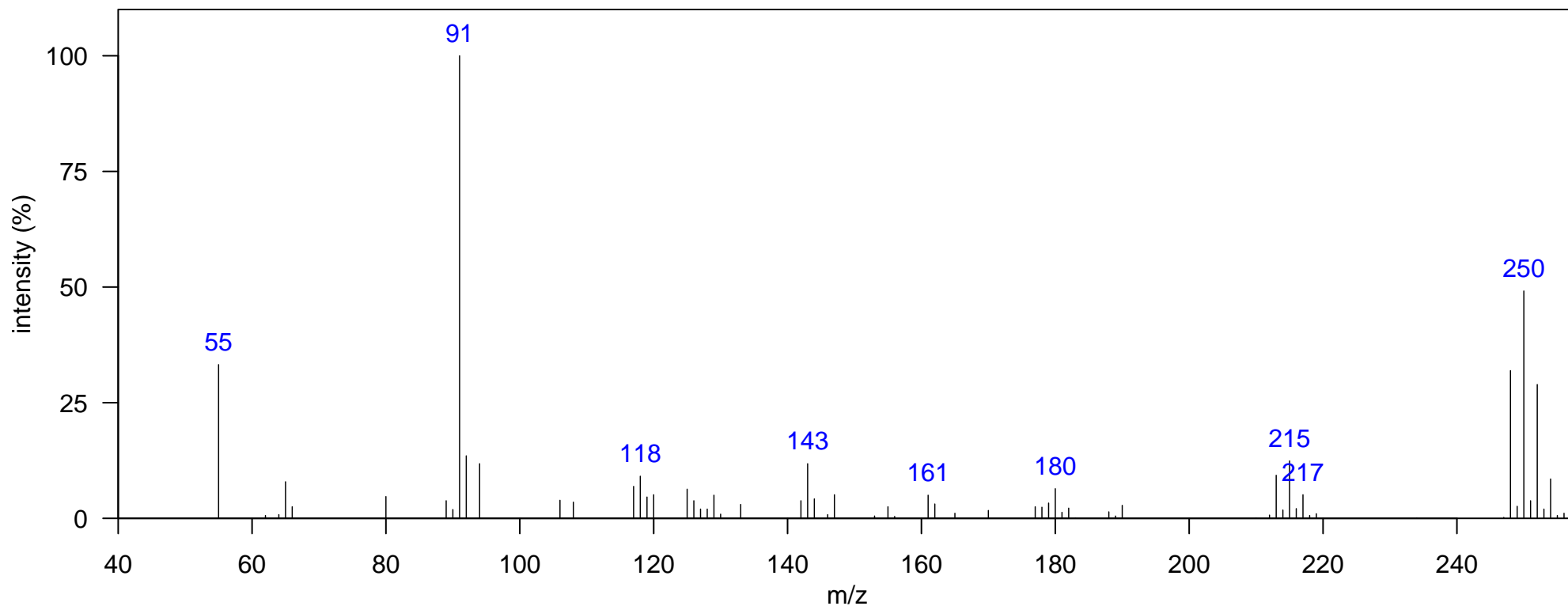
Name: pentachlorobenzene

Class: Chlorinated benzene

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 974.29, 1.096  
Quantitative Ion m/z: 250  
Atlantic Lib:

Elemental Formula: C<sub>6</sub>HCl<sub>5</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



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

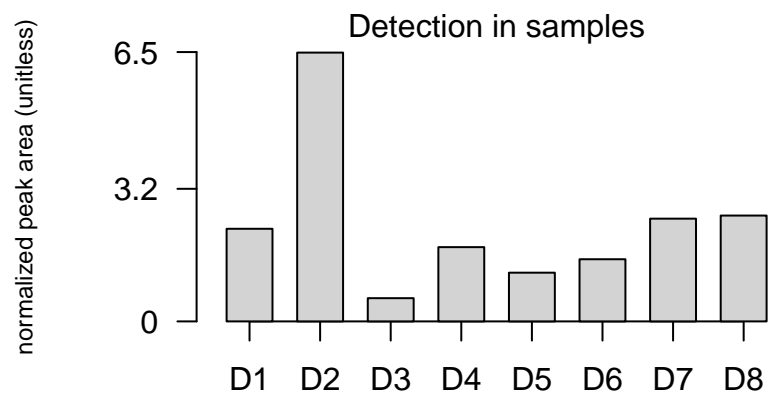
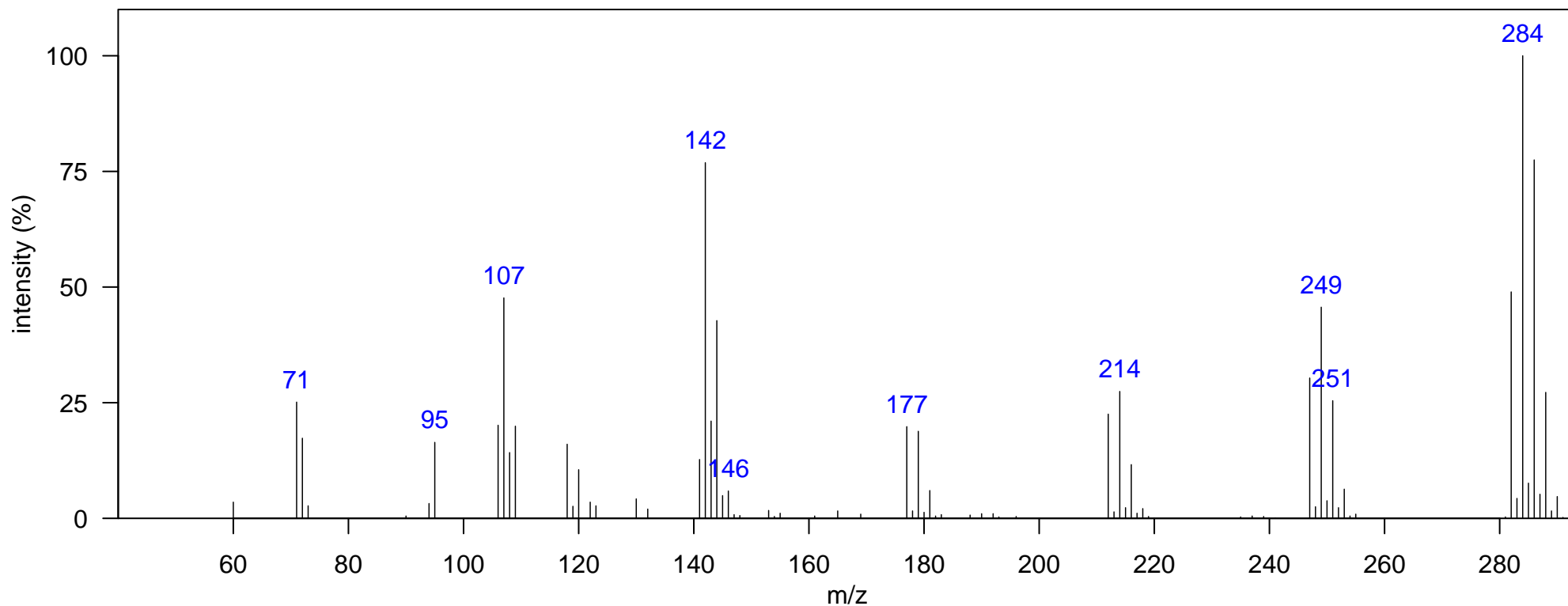
Name: hexachlorobenzene

Class: Chlorinated benzene

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

1D RT, 2D RT (s): 1107.21, 1.162  
Quantitative Ion m/z: 284  
Atlantic Lib: hexachlorobenzene

Elemental Formula: C<sub>6</sub>Cl<sub>6</sub>  
Source: anthropogenic  
Identification: Authentic MS RT



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

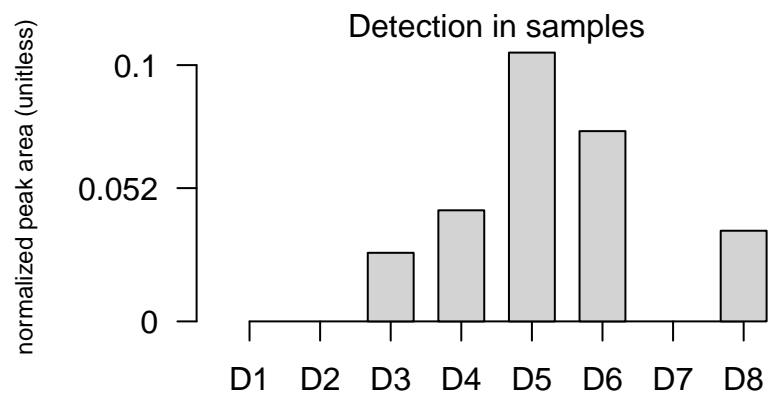
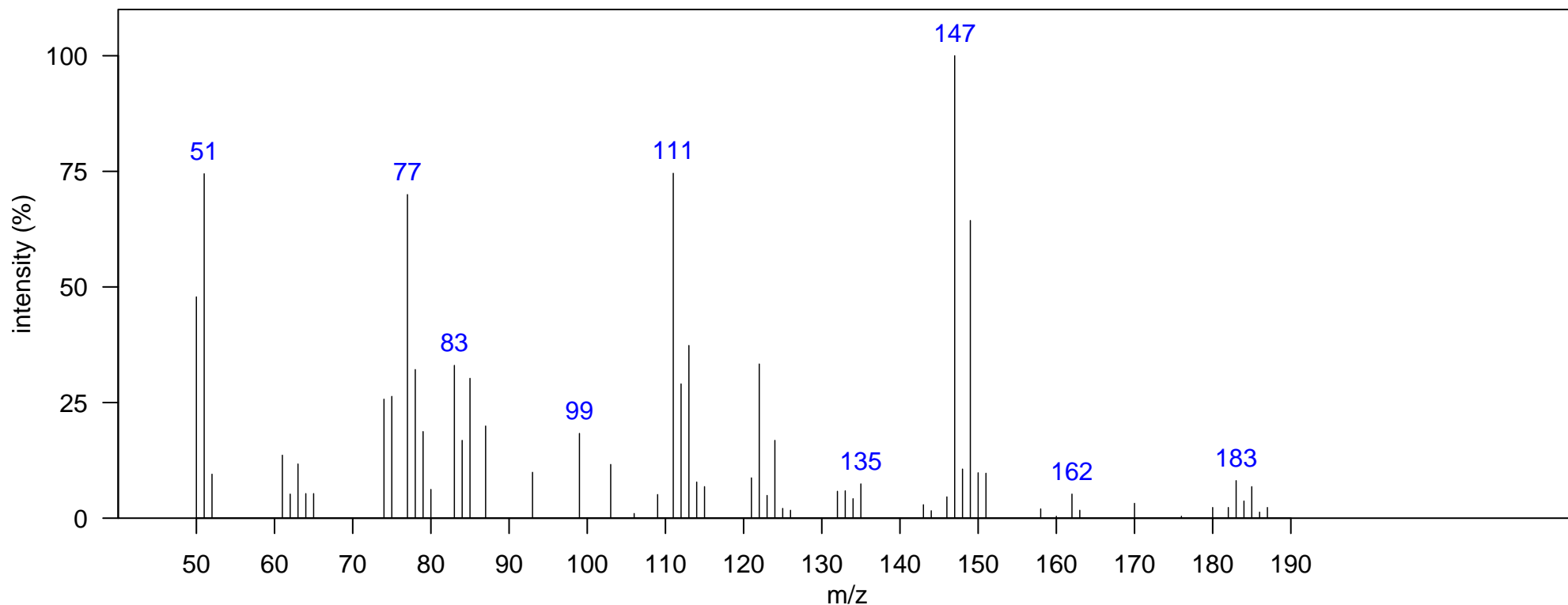
Name: cyclohexene 4Cl 1

Class: HCH-related

Sample: SoCal dolphin blubber D3,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 879.84, 1.115  
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>

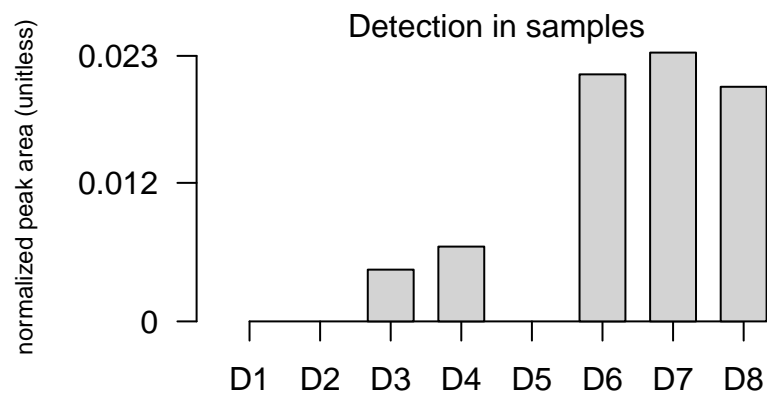
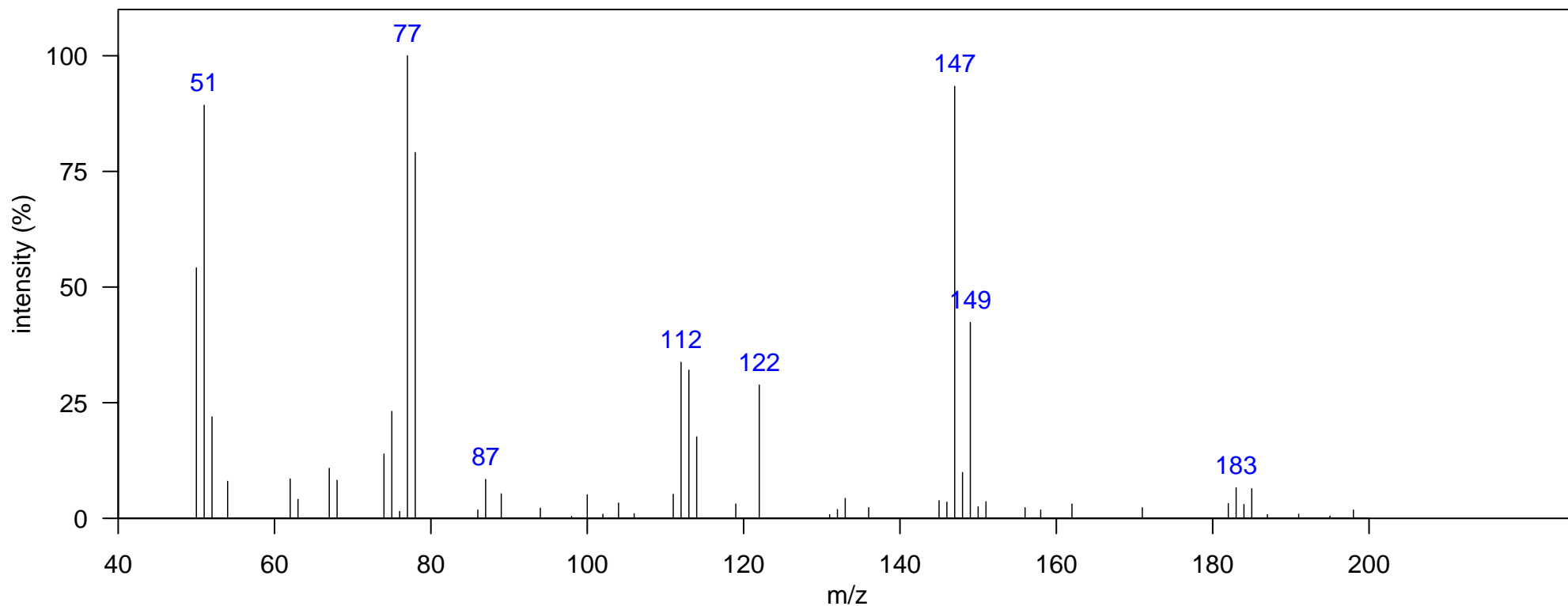
Name: cyclohexene 4Cl 2

Class: HCH-related

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1128.2, 0.878  
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>

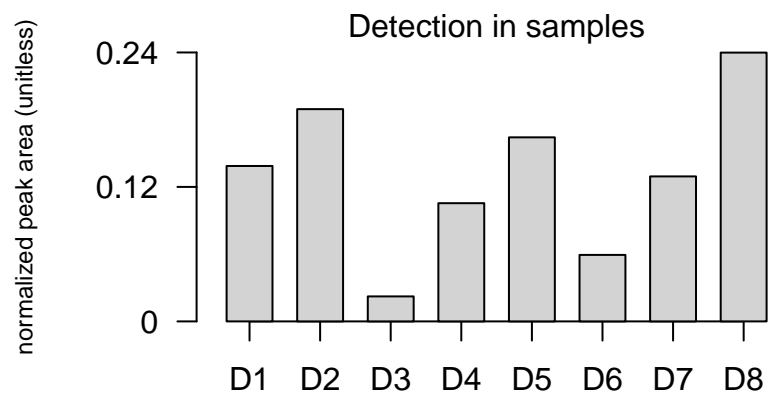
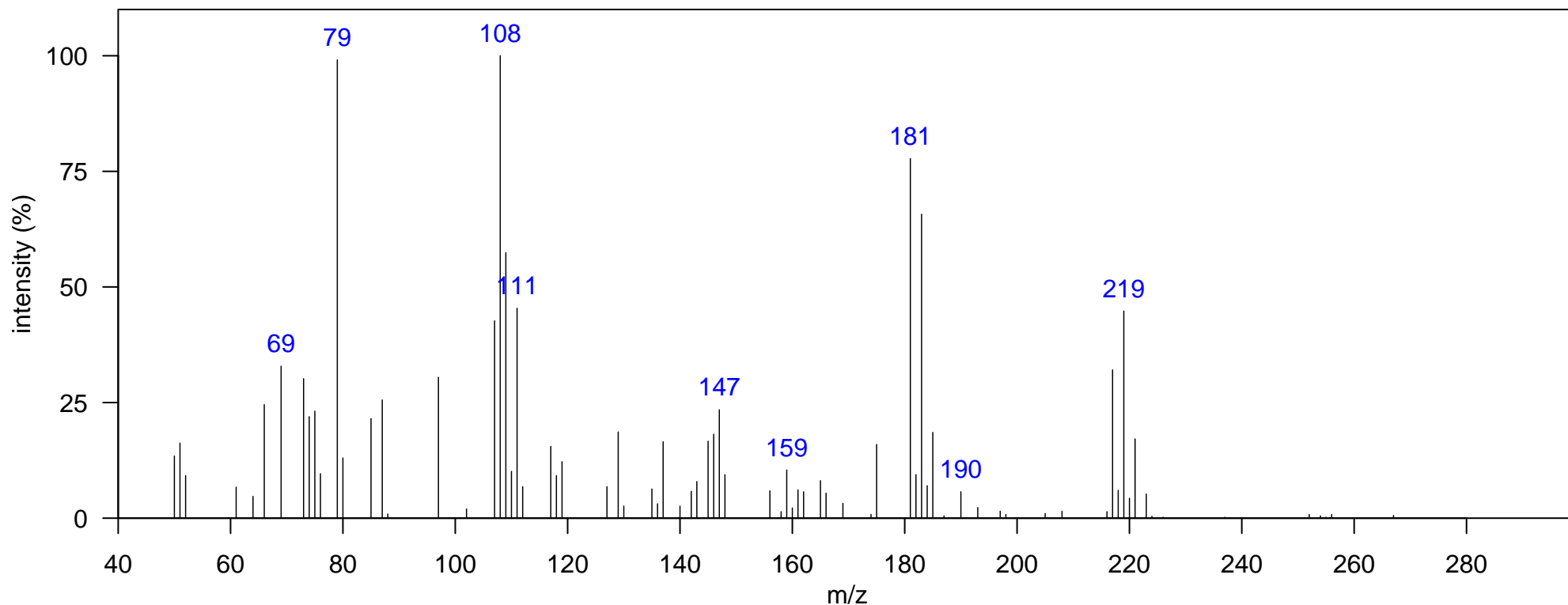
Name: alpha BHC

Class: HCH-related

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

1D RT, 2D RT (s): 1093.22, 1.214  
Quantitative Ion m/z: 219  
Atlantic Lib: HCH isomer 1

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



m/z [Fragment]
217 [M-HCl2]+

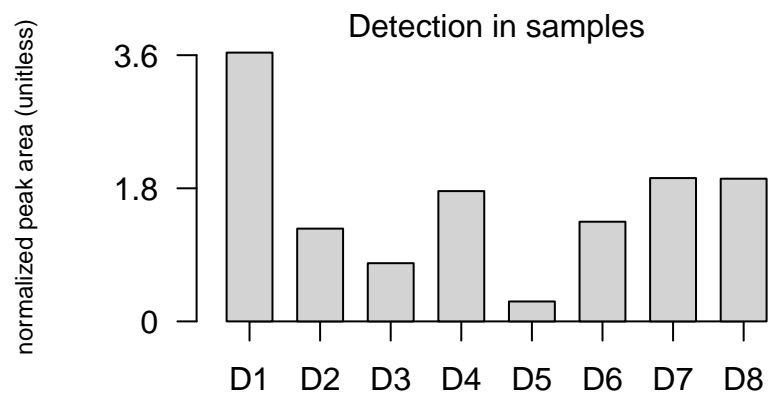
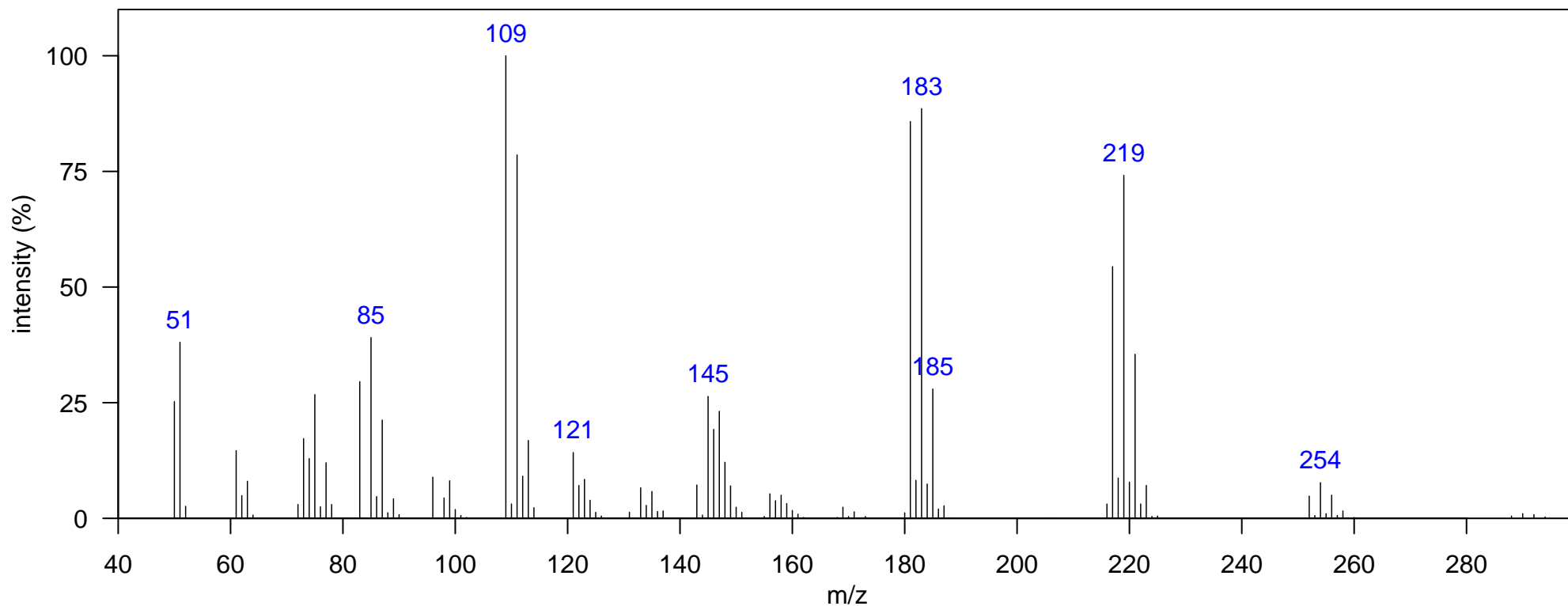
Name: beta BHC

Class: HCH-related

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

1D RT, 2D RT (s): 1131.7, 1.274  
Quantitative Ion m/z: 219  
Atlantic Lib: HCH isomer 2

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



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



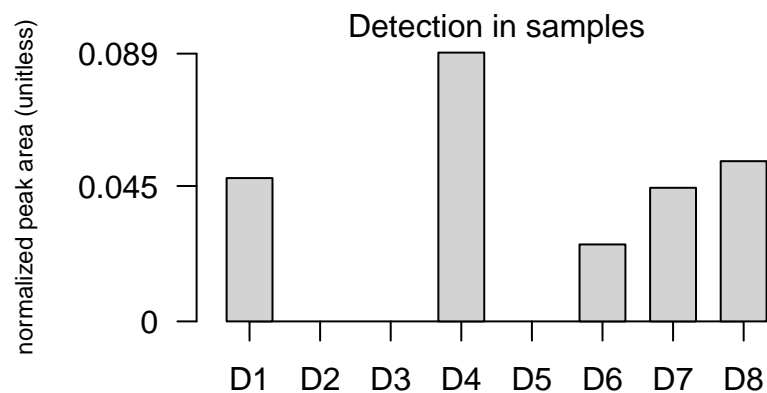
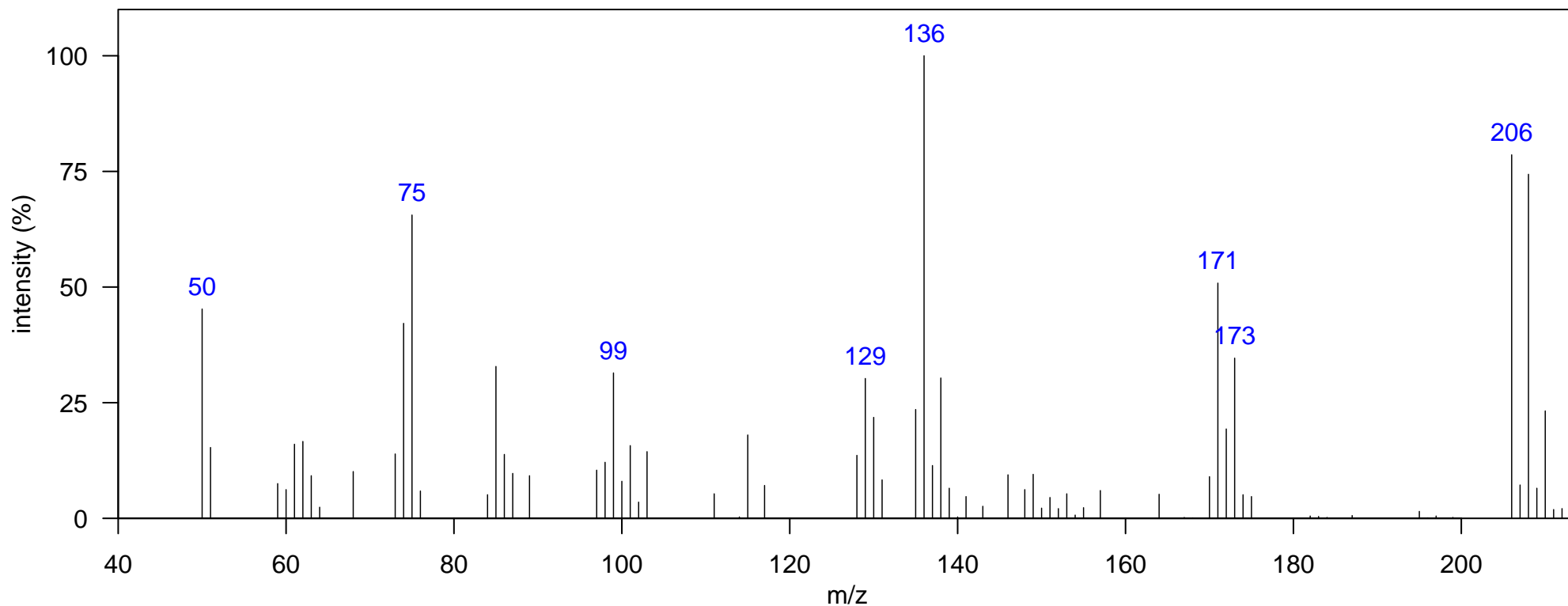
Name: ethenyl benzene 3Cl

Class: Chlorinated styrene

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

1D RT, 2D RT (s): 897.33, 1.063  
Quantitative Ion m/z: 206  
Atlantic Lib: trichlorostyrene (PCS)

Elemental Formula: C<sub>8</sub>H<sub>5</sub>Cl<sub>3</sub>  
Source: anthropogenic  
Identification: Reference Database MS



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

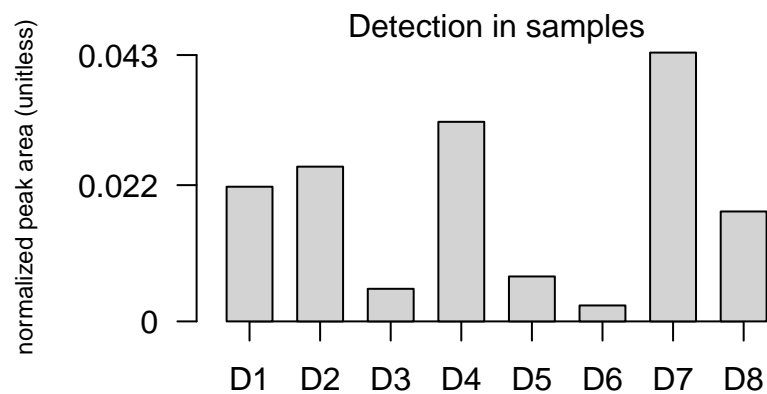
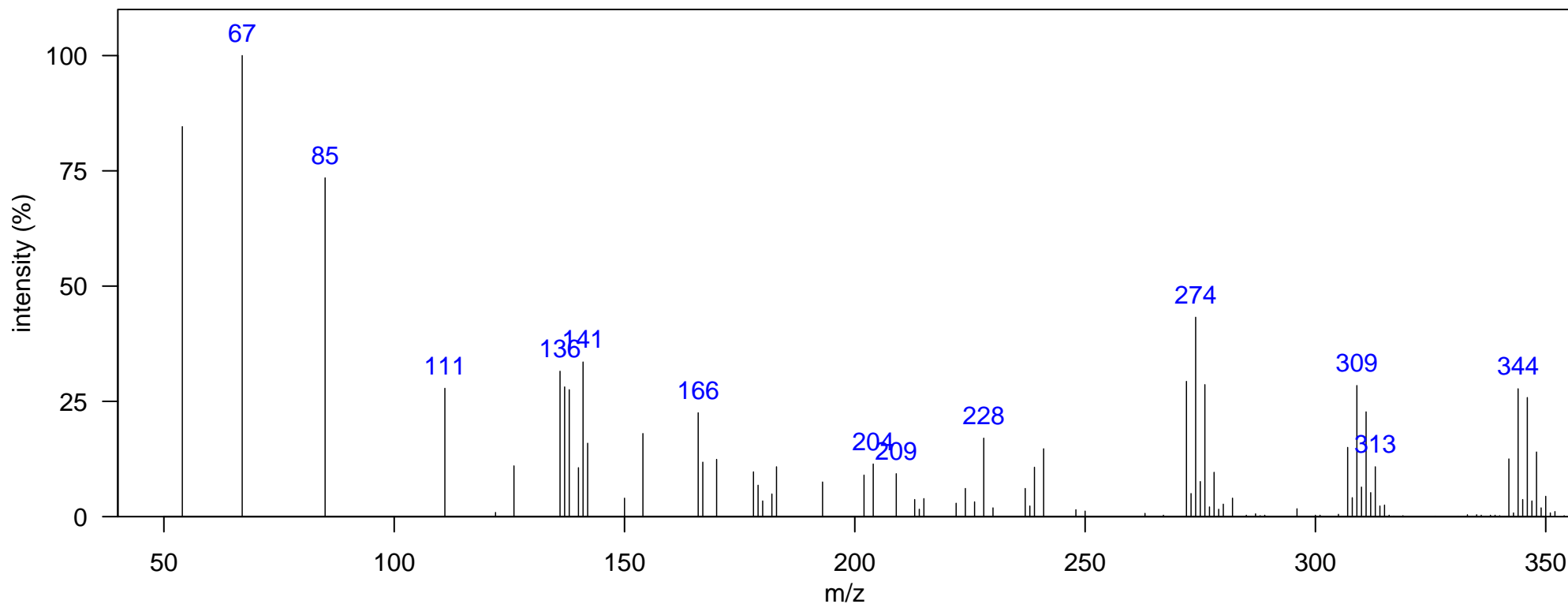
Name: polychlorinated styrene 7Cl

Class: Chlorinated styrene

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1187.66, 1.155  
Quantitative Ion m/z: 344  
Atlantic Lib: heptachlorostyrene (PCS)

Elemental Formula: C<sub>8</sub>HCl<sub>7</sub>  
Source: anthropogenic  
Identification: Authentic MS



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

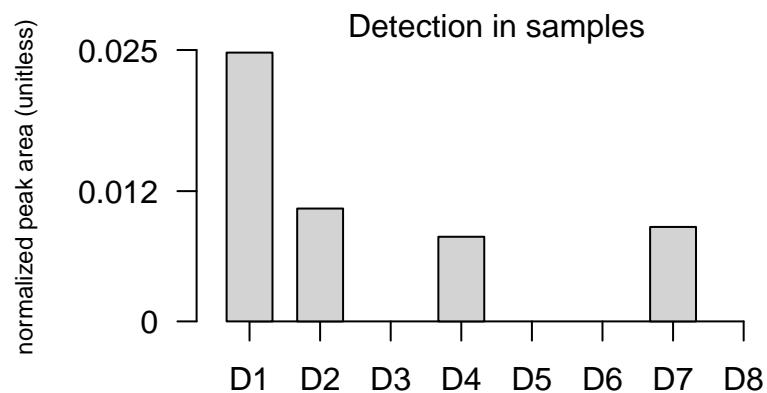
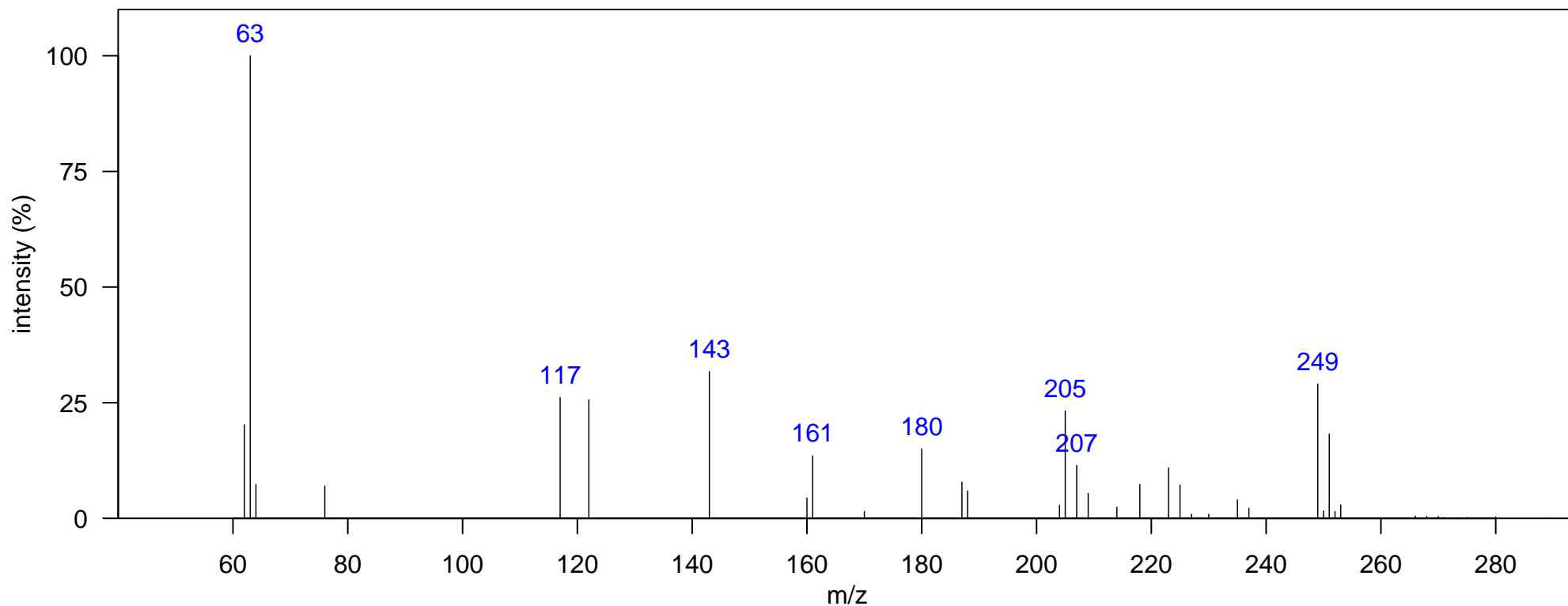
Name: tris(2-chloroethyl)phosphate

Class: Chlorophosphate

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

1D RT, 2D RT (s): 1121.2, 1.307  
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>

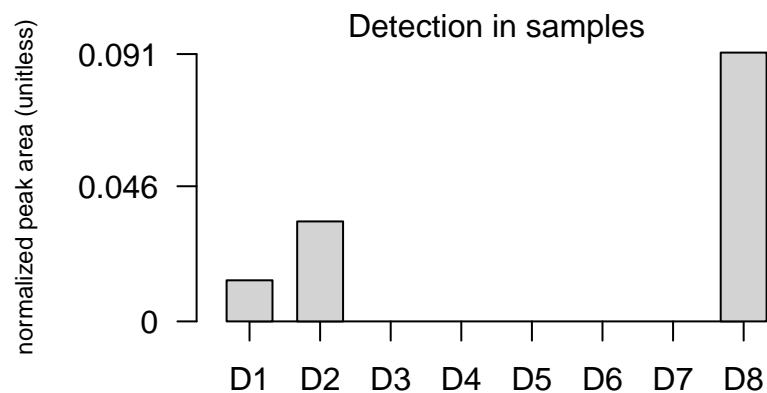
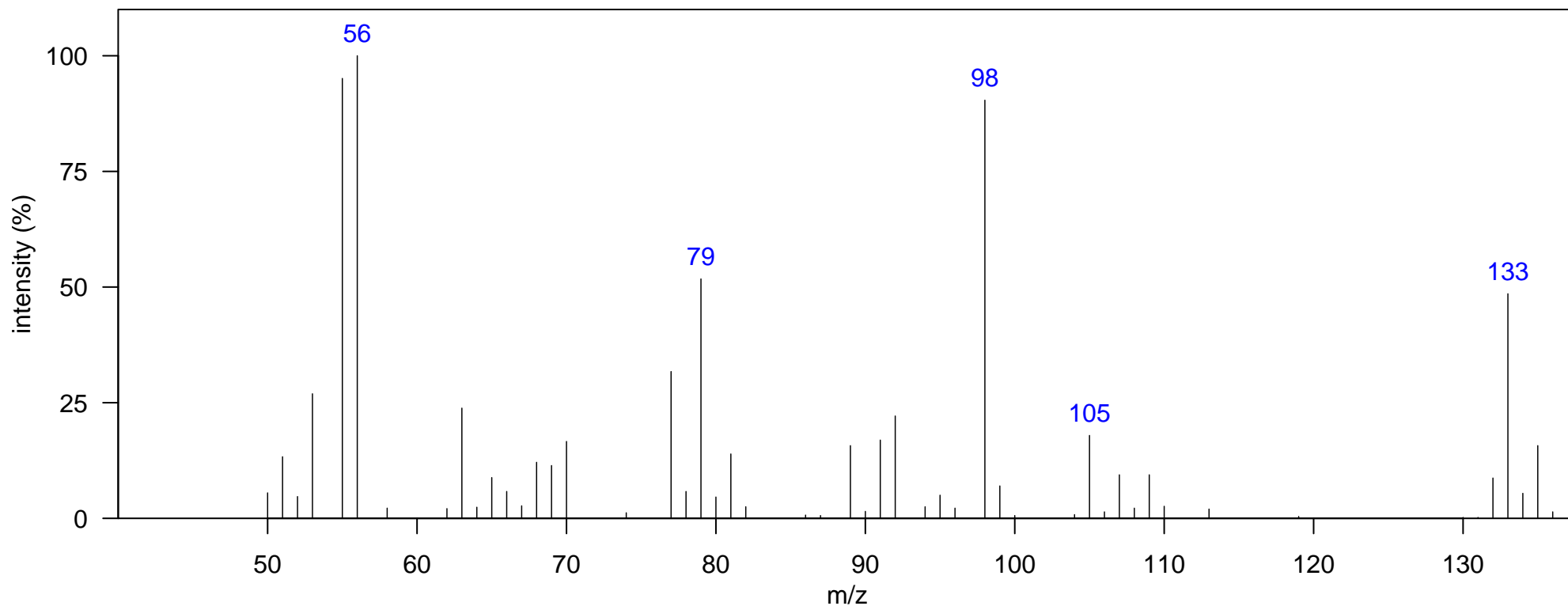
Name: pyrrolidinecarbonyl chloride

Class: Pyrrolidinecarbonyl chloride

Sample: SoCal dolphin blubber D8,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 694.45, 1.115  
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]+
133 M+

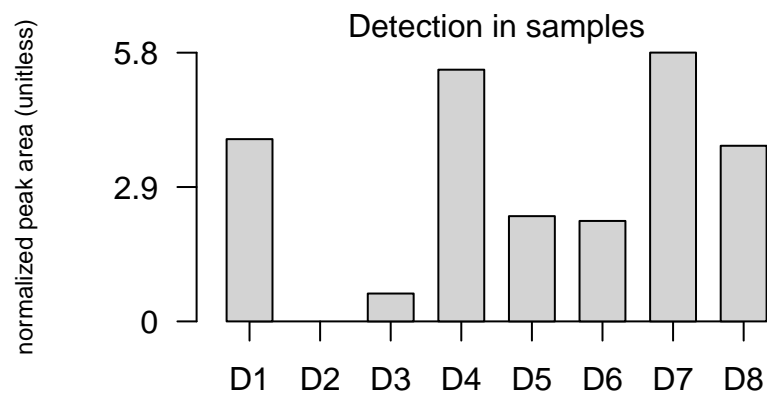
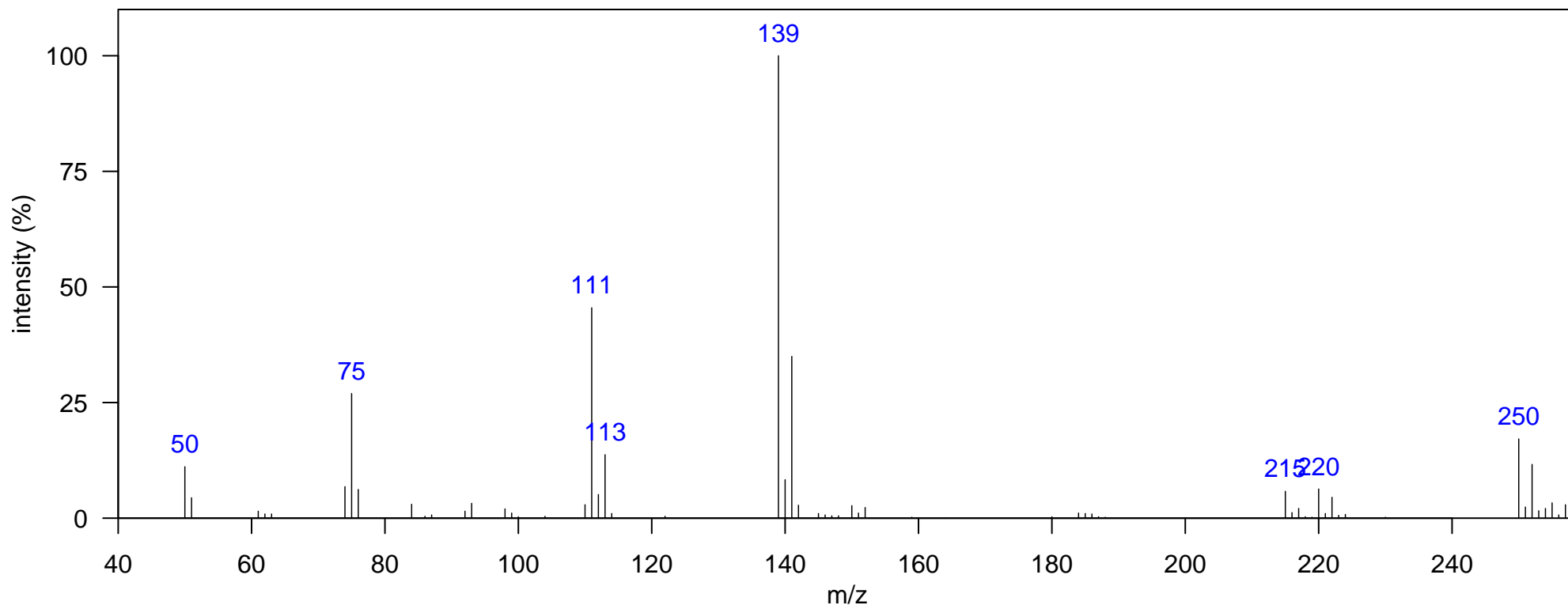
Name: 4,4'-dichlorobenzophenone

Class: Dichlorobenzophenone

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

1D RT, 2D RT (s): 1268.12, 1.287  
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,

1D RT, 2D RT (s): 1586.44, 1.729

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

Ecotype: coastal

Quantitative Ion m/z: 530

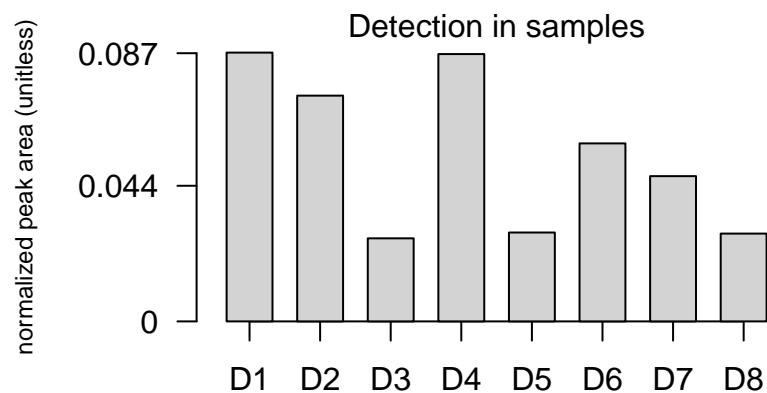
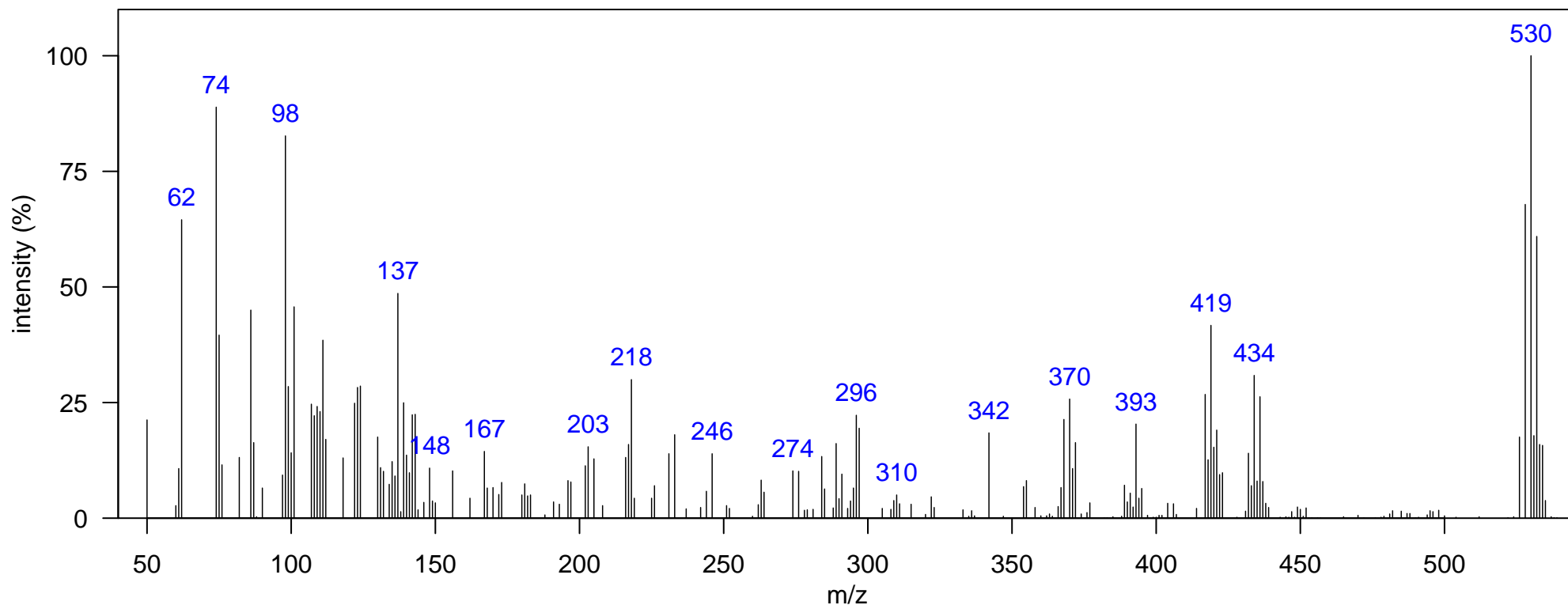
Source: natural

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: 2MeO-BB-80

Identification: Authentic MS RT

Comment: 2,2,4,4'-dimethoxy-3,3',4,4'-tetrabromobiphenyl



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>

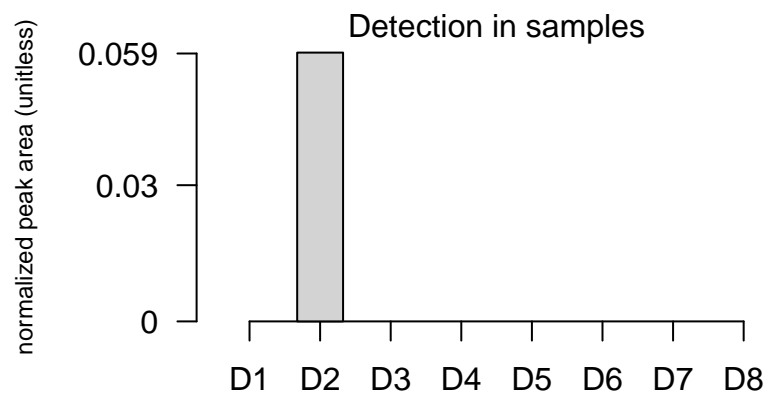
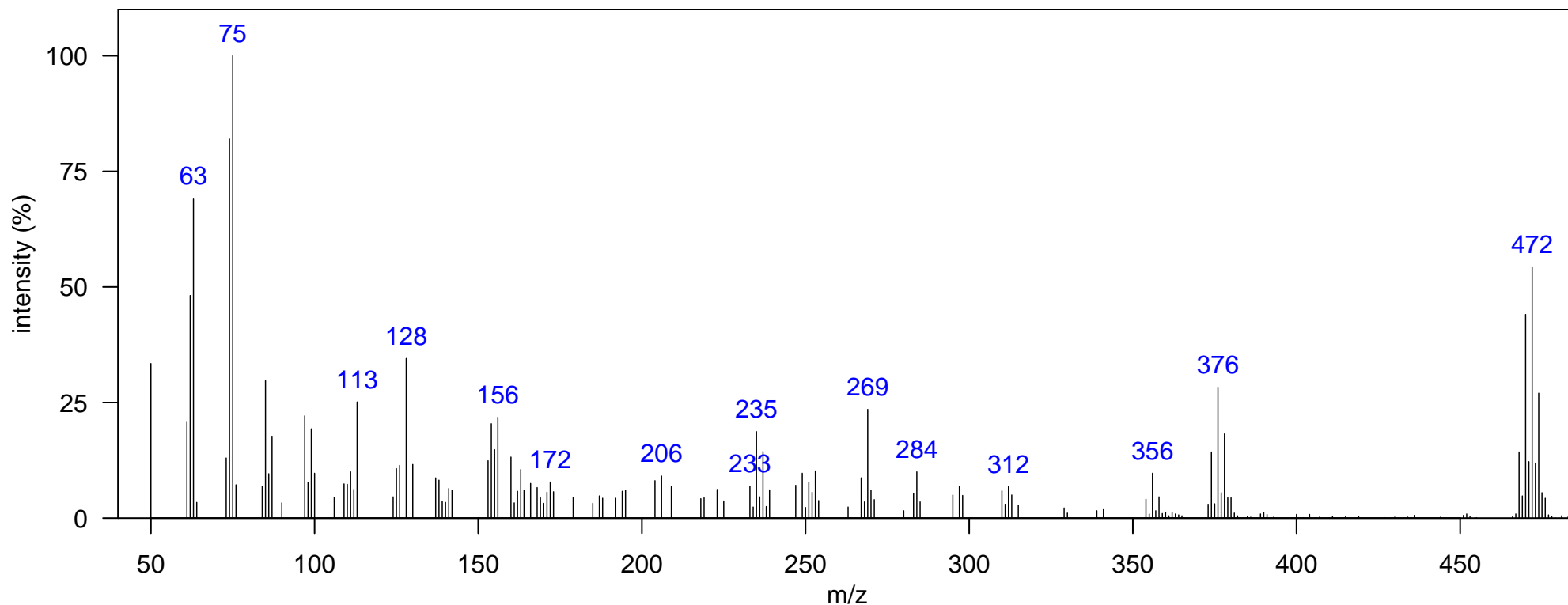
Name: MeOBCDE Br3Cl

Class: MeO-B/CDE

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1554.95, 1.657  
Quantitative Ion m/z: 472  
Atlantic Lib: methoxy diphenyl ether Br3Cl

Elemental Formula: C<sub>13</sub>H<sub>8</sub>Br<sub>3</sub>ClO<sub>2</sub>  
Source: natural  
Identification: Manual-Congener Group



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

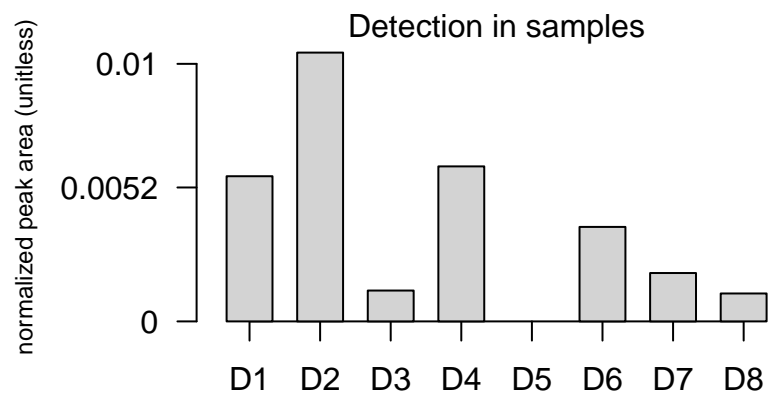
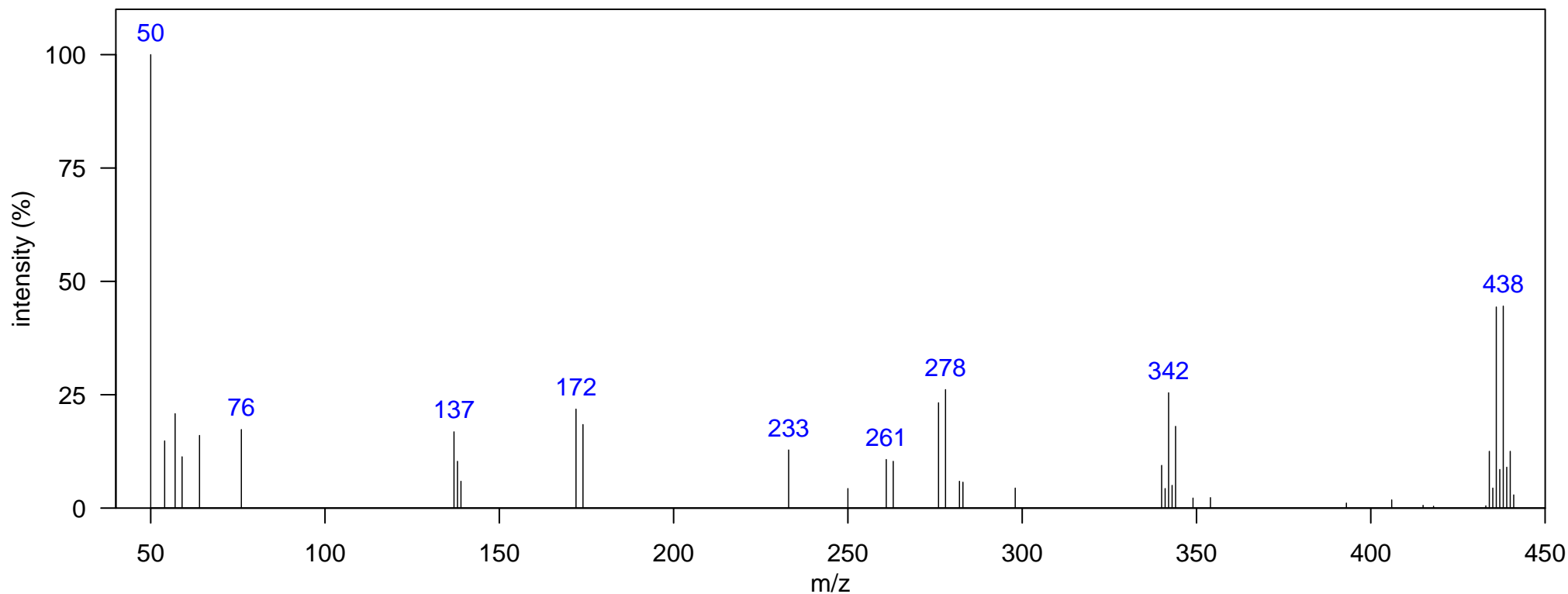
Name: MeOBDE 3Br

Class: MeO-BDE

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

1D RT, 2D RT (s): 1460.51, 1.564  
Quantitative Ion m/z: 438  
Atlantic Lib: MeO-BDE 3Br

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



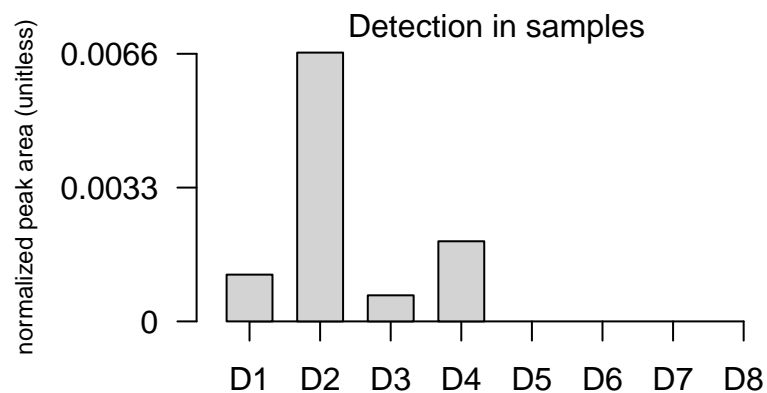
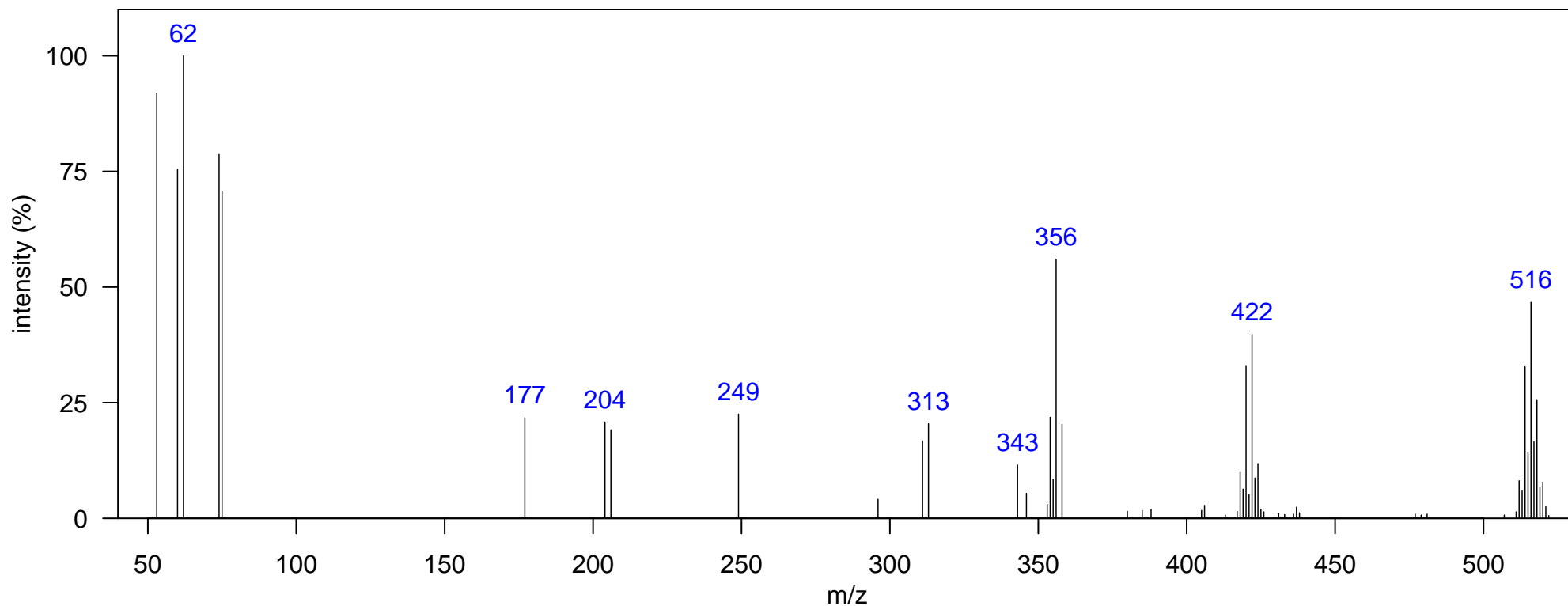
Name: MeOBDE 4Br

Class: MeO-BDE

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1565.45, 1.723  
Quantitative Ion m/z: 516  
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  
Identification: Authentic MS



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

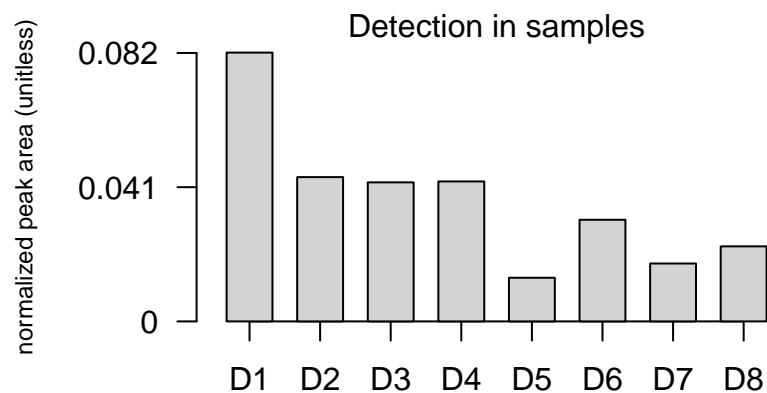
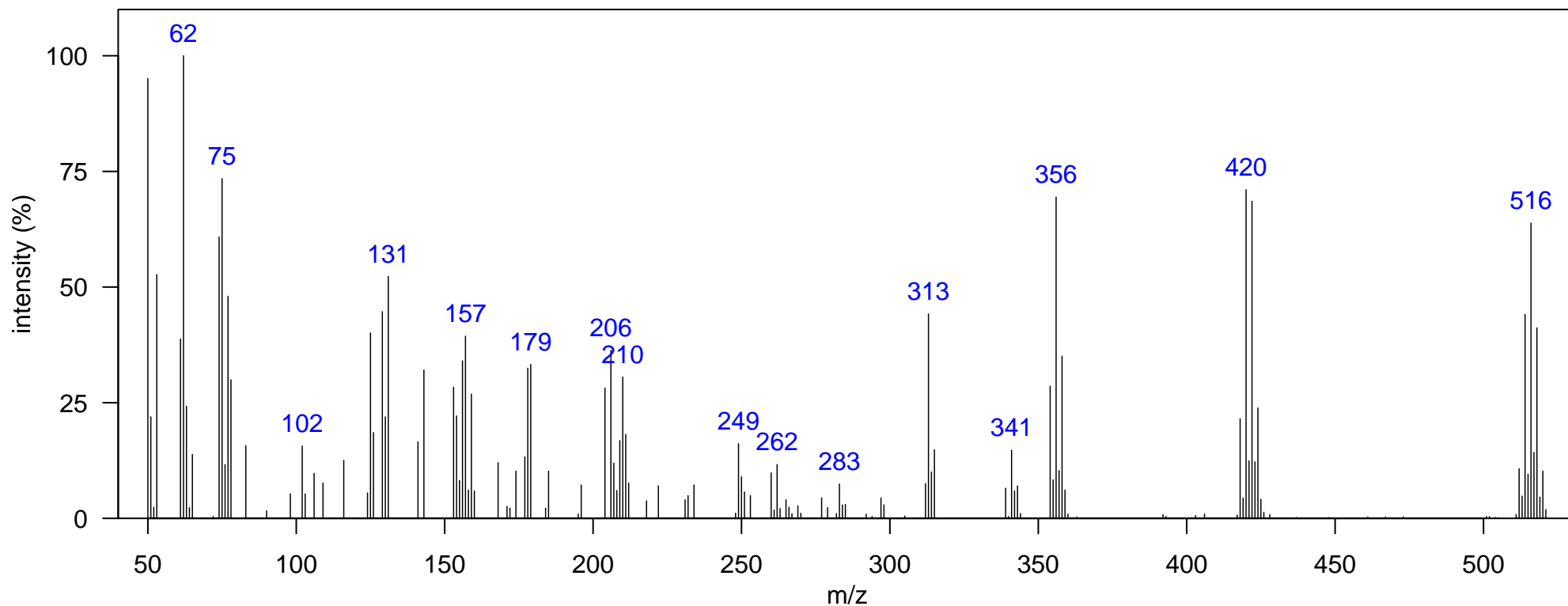
Name: 2'-MeOBDE-68

Class: MeO-BDE

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

1D RT, 2D RT (s): 1579.44, 1.736  
Quantitative Ion m/z: 516  
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  
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>

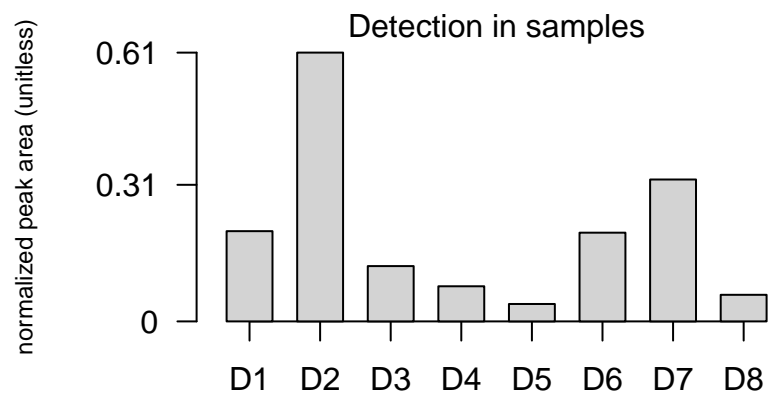
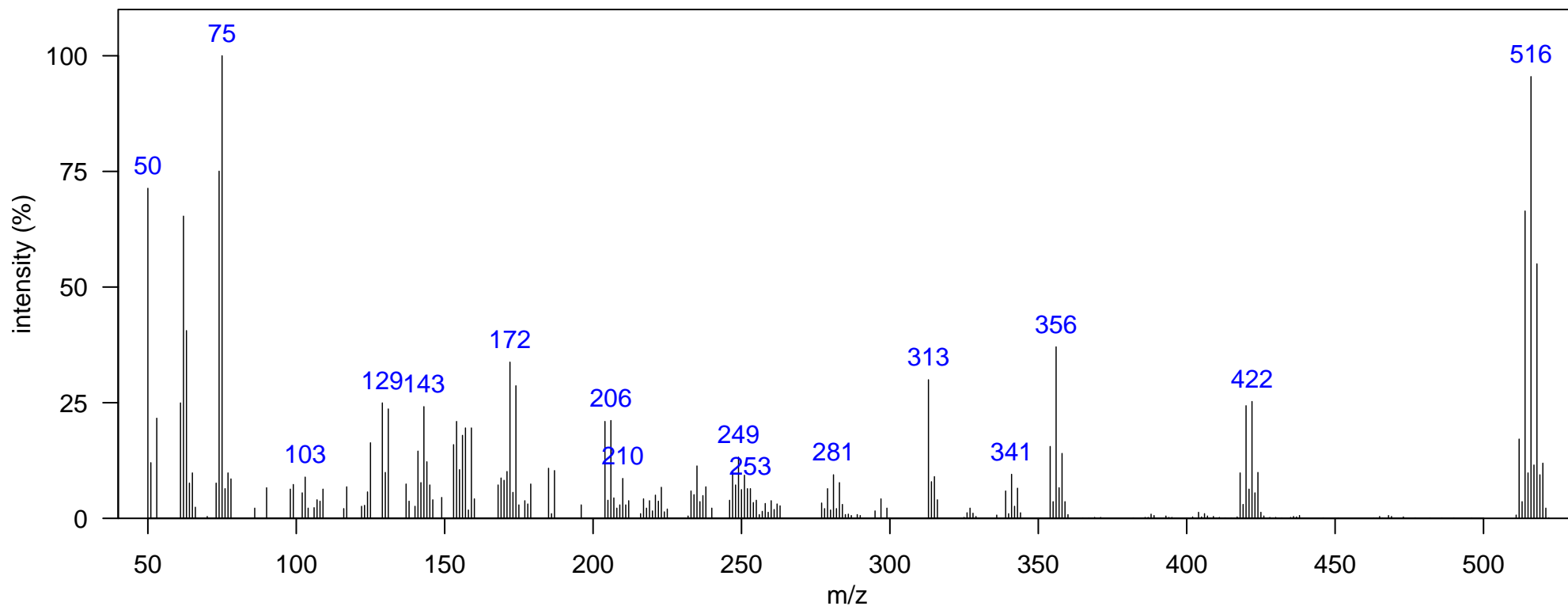
Name: 6-MeOBDE-47

Class: MeO-BDE

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

1D RT, 2D RT (s): 1600.43, 1.921  
Quantitative Ion m/z: 516  
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  
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>

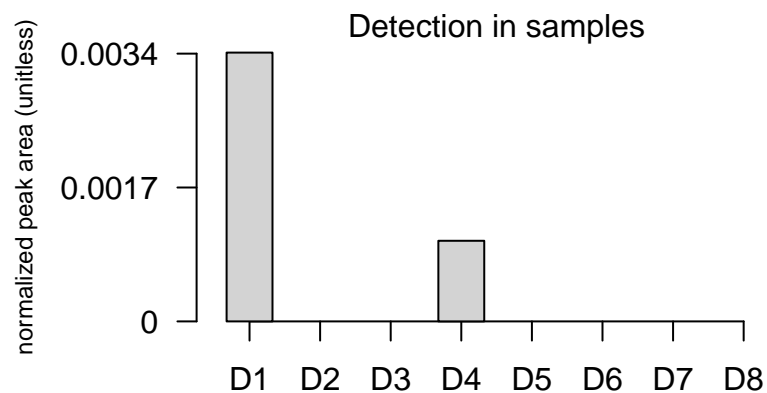
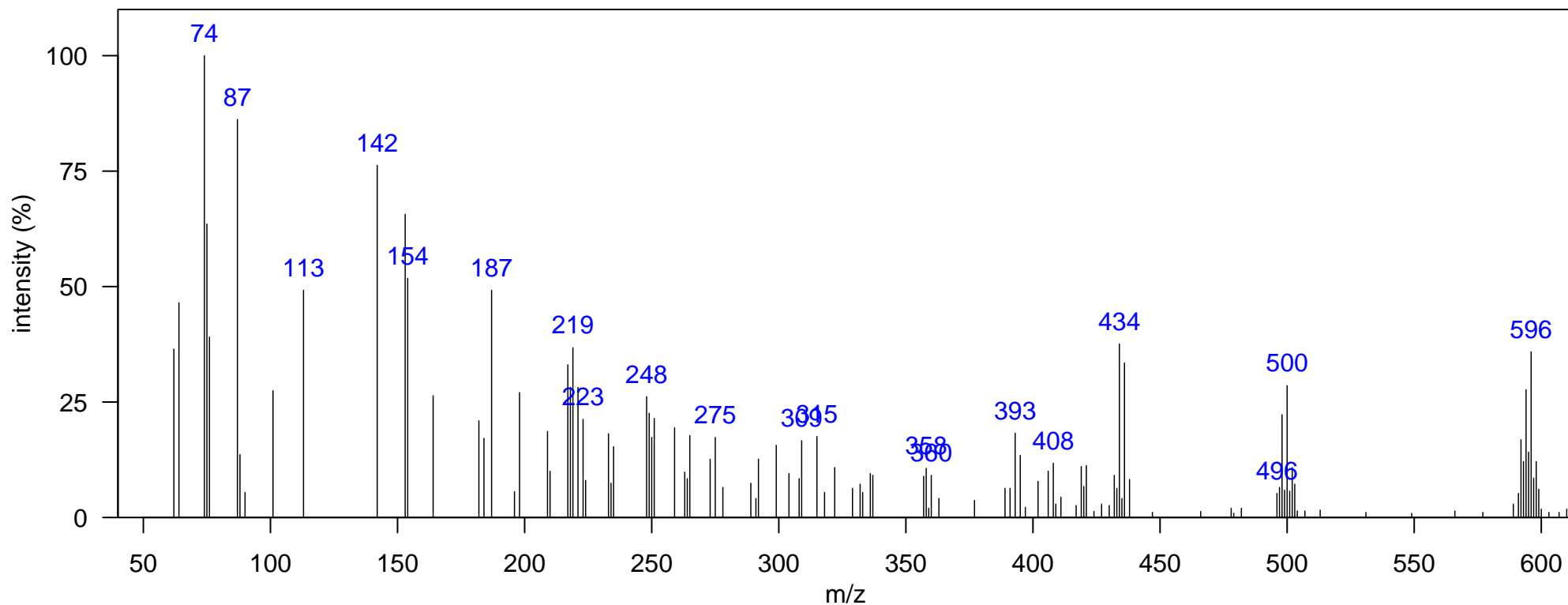
Name: 6'-MeOBDE-99

Class: MeO-BDE

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

1D RT, 2D RT (s): 1729.85, 2.165  
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>

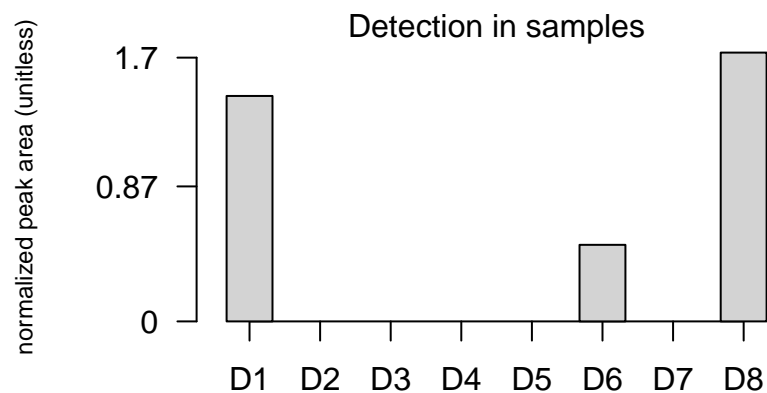
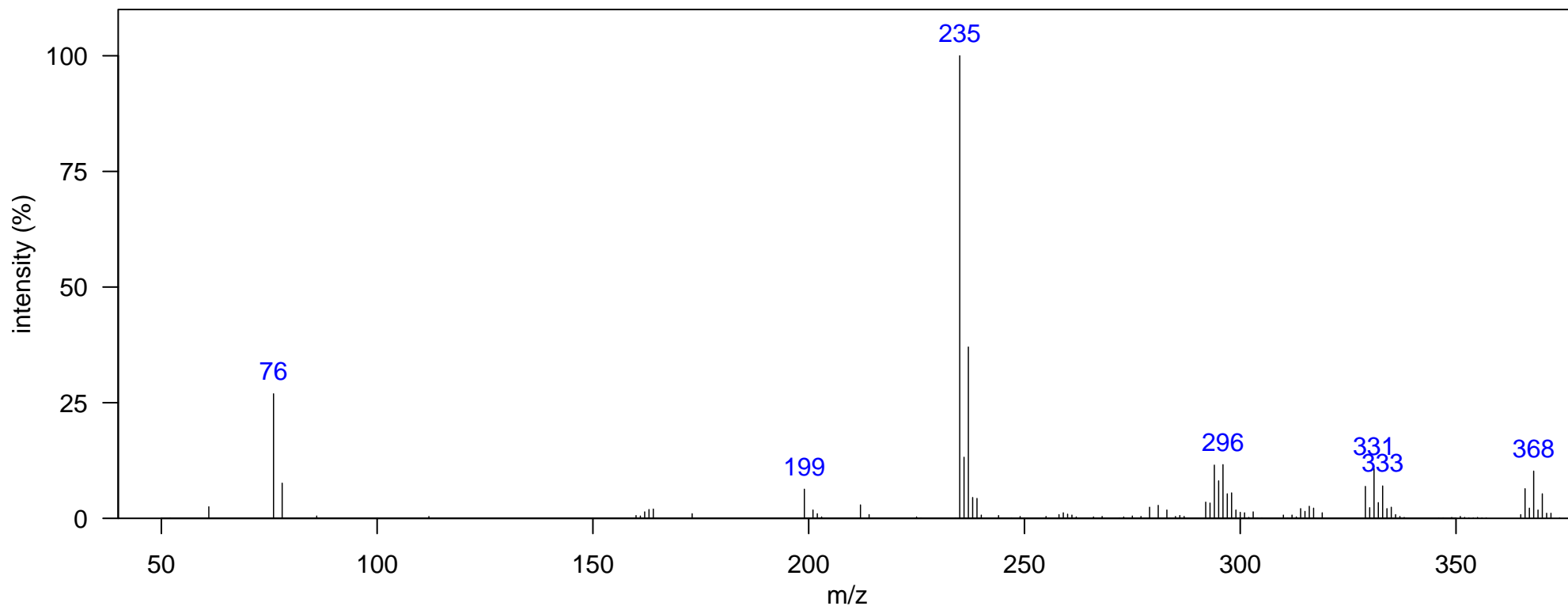
Name: DMBP 6Cl

Class: DMBP

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

1D RT, 2D RT (s): 1415.03, 1.373  
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>

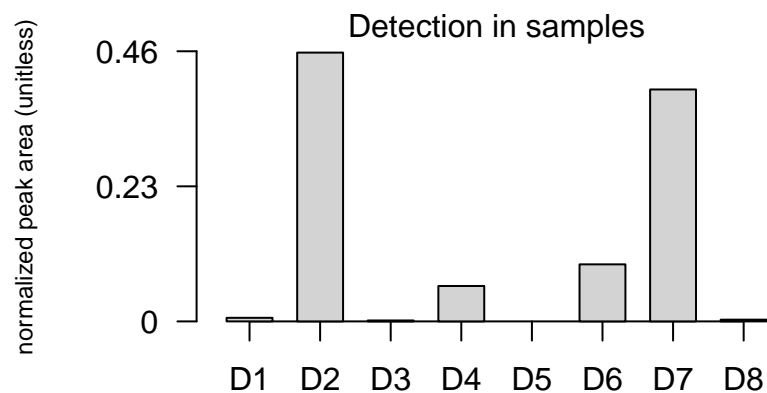
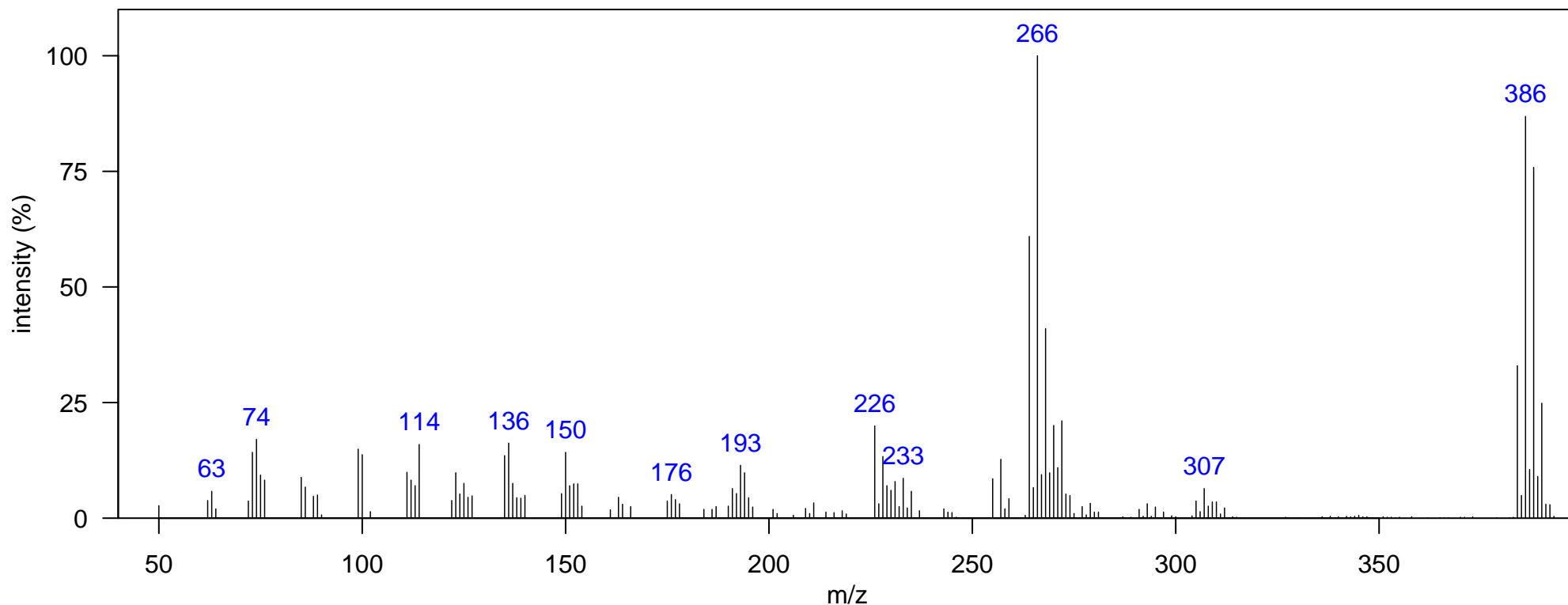
Name: DMBP Br<sub>2</sub>Cl<sub>2</sub> 1

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1275.11, 1.247  
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>

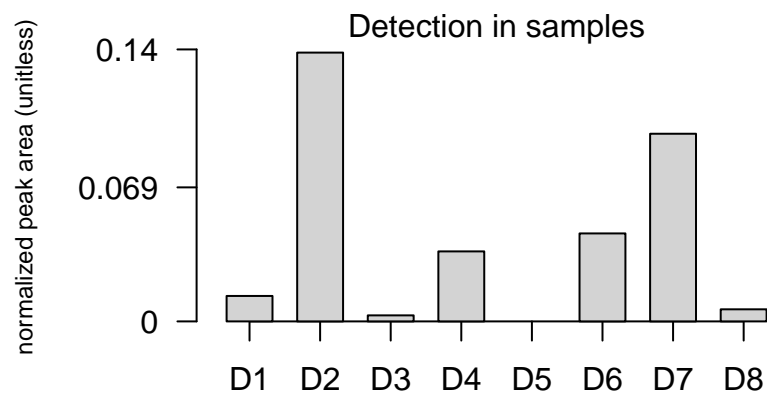
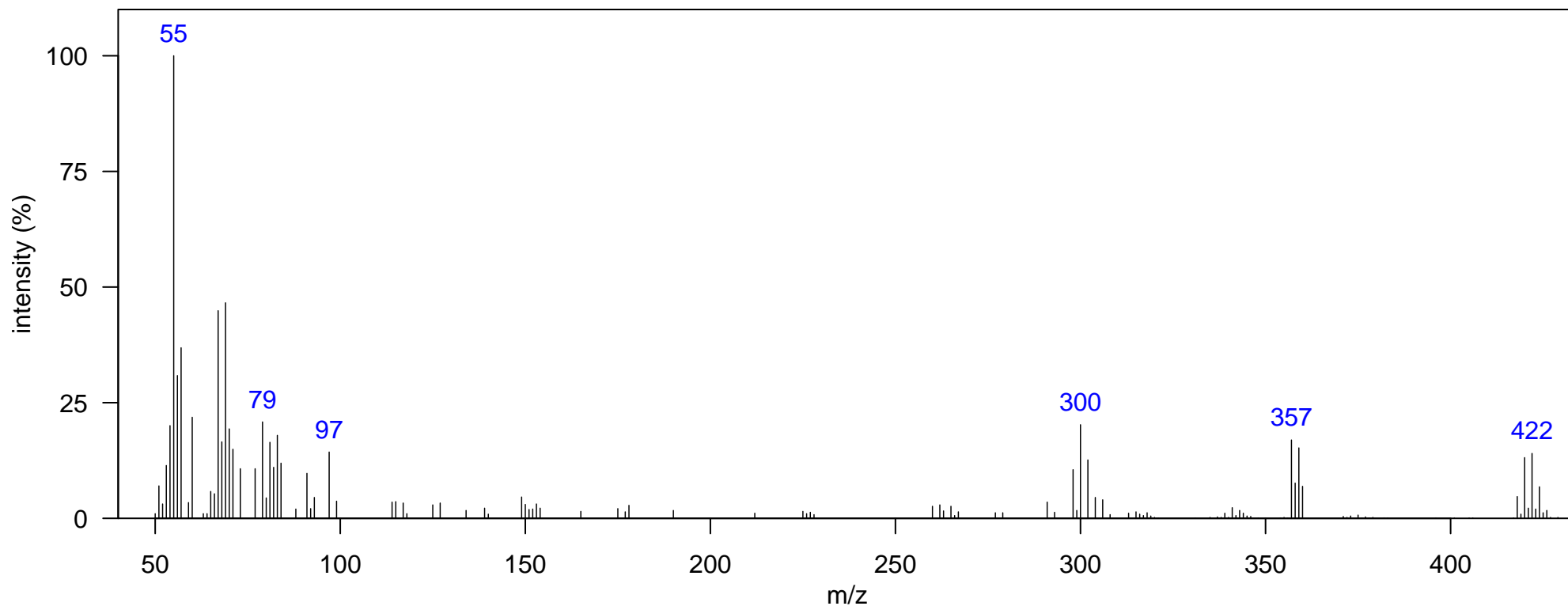
Name: DMBP Br<sub>2</sub>Cl<sub>3</sub>

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1390.55, 1.353  
Quantitative Ion m/z: 422  
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  
Identification: Manual-Congener Group



m/z [Fragment]
298 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
418 M <sup>+</sup>

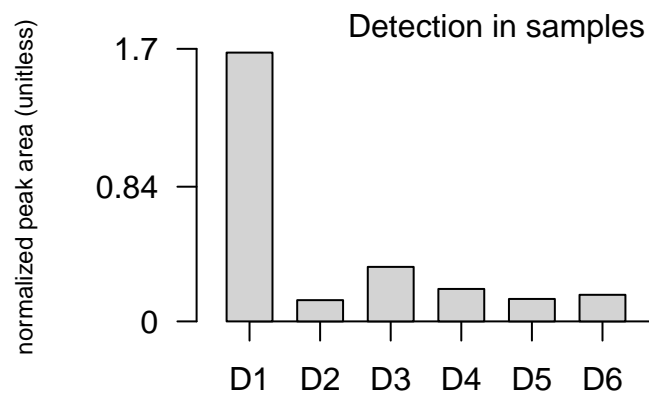
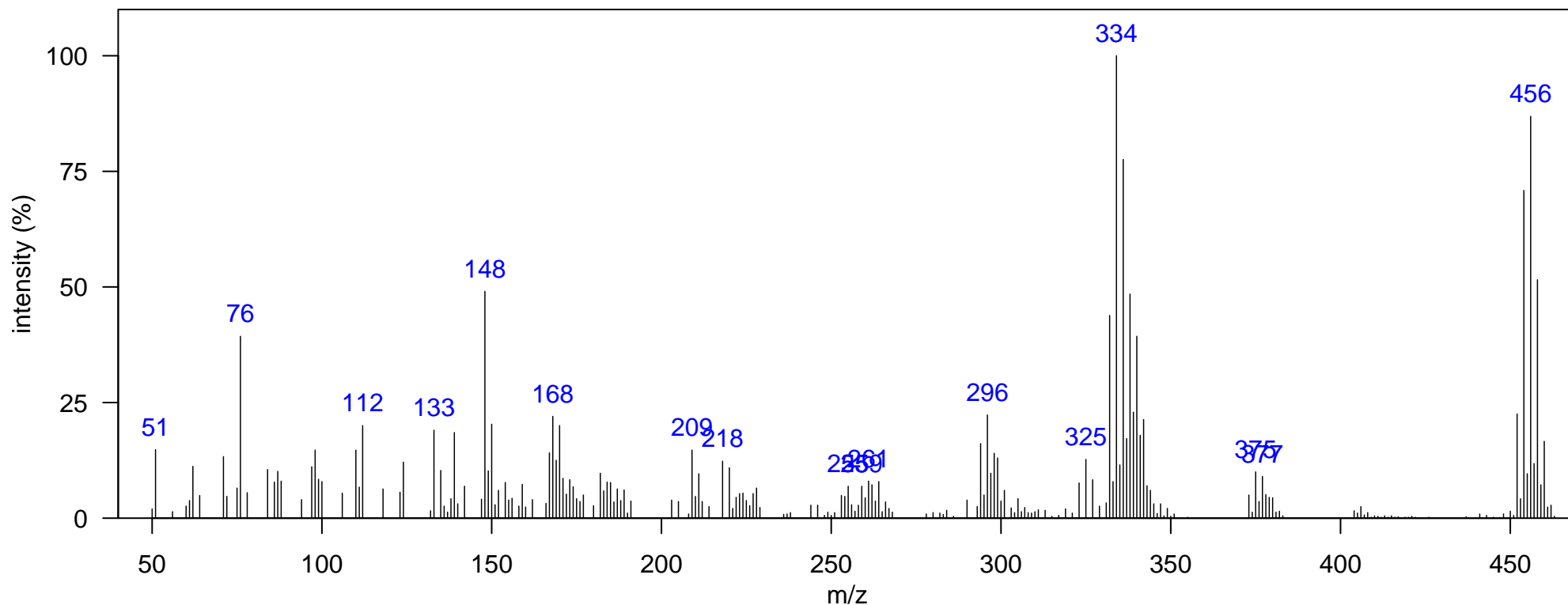
Name: DMBP Br<sub>2</sub>Cl<sub>4</sub>

Class: DMBP

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

1D RT, 2D RT (s): 1491.99, 1.459  
Quantitative Ion m/z: 458  
Atlantic Lib: DMBP Br<sub>2</sub>Cl<sub>4</sub>

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Cl<sub>4</sub>Br<sub>2</sub>N<sub>2</sub>  
Source: natural  
Identification: Authentic MS RT



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



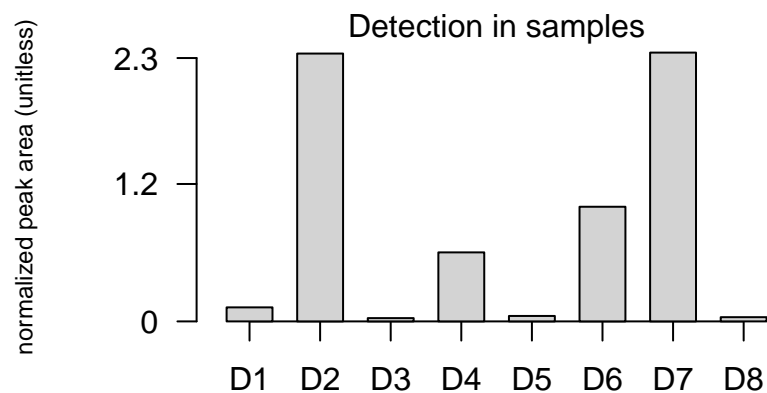
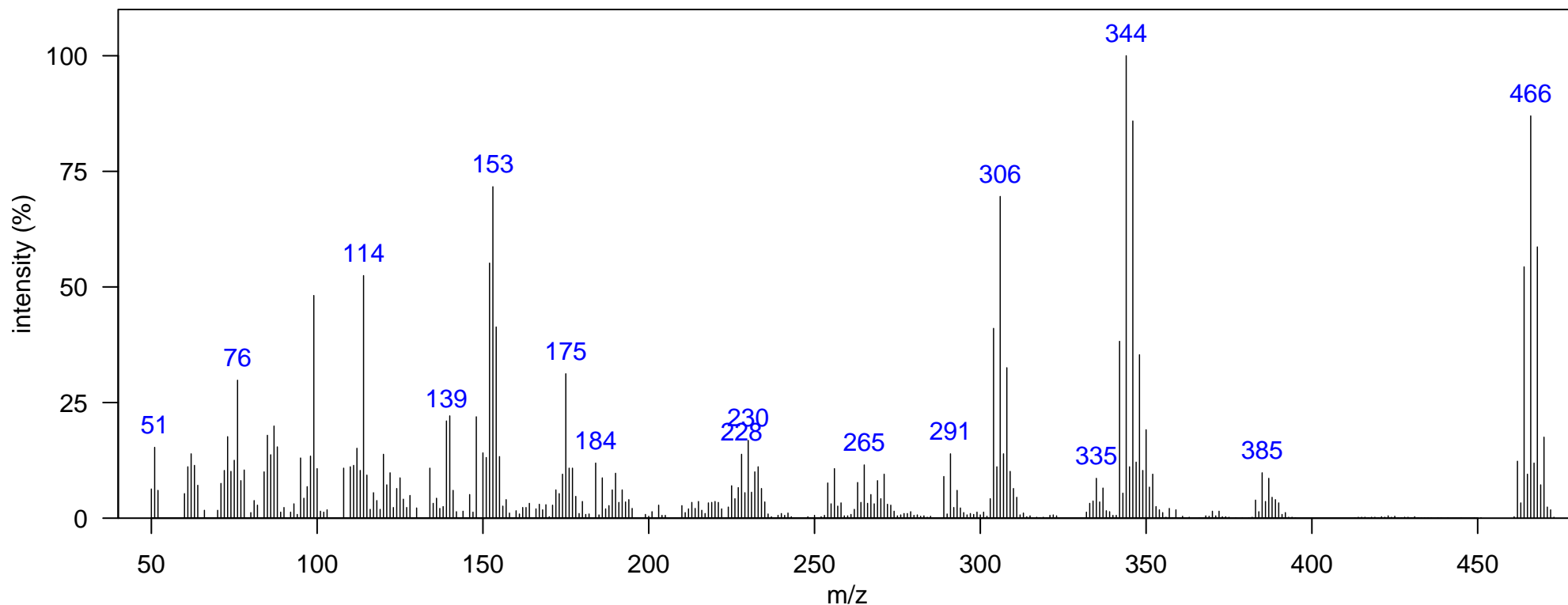
Name: DMBP Br3Cl2 1

Class: DMBP

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1436.02, 1.426  
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>

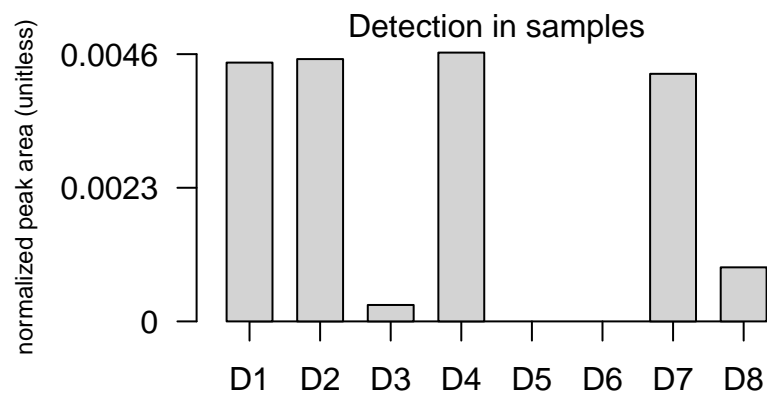
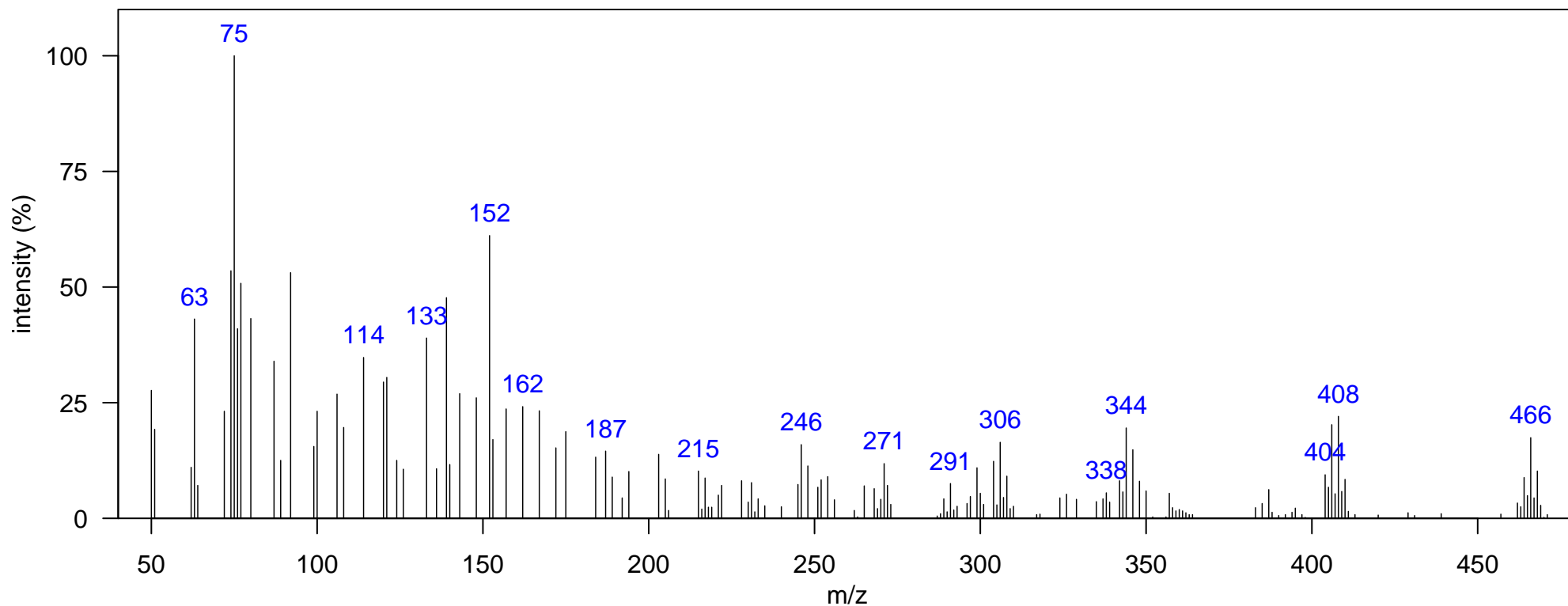
Name: DMBP Br3Cl2 2

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1561.95, 1.28  
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>

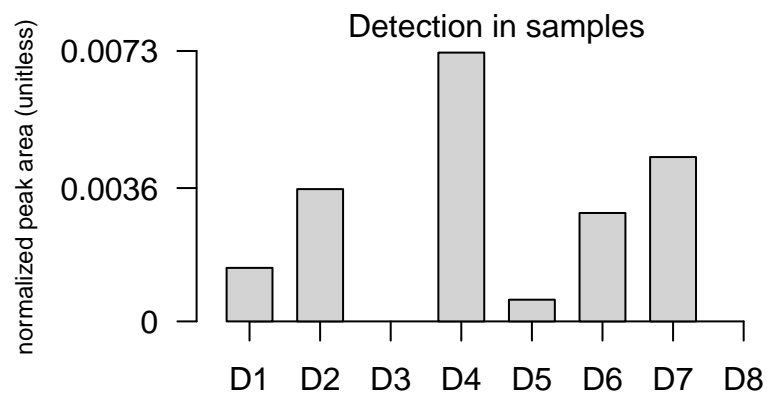
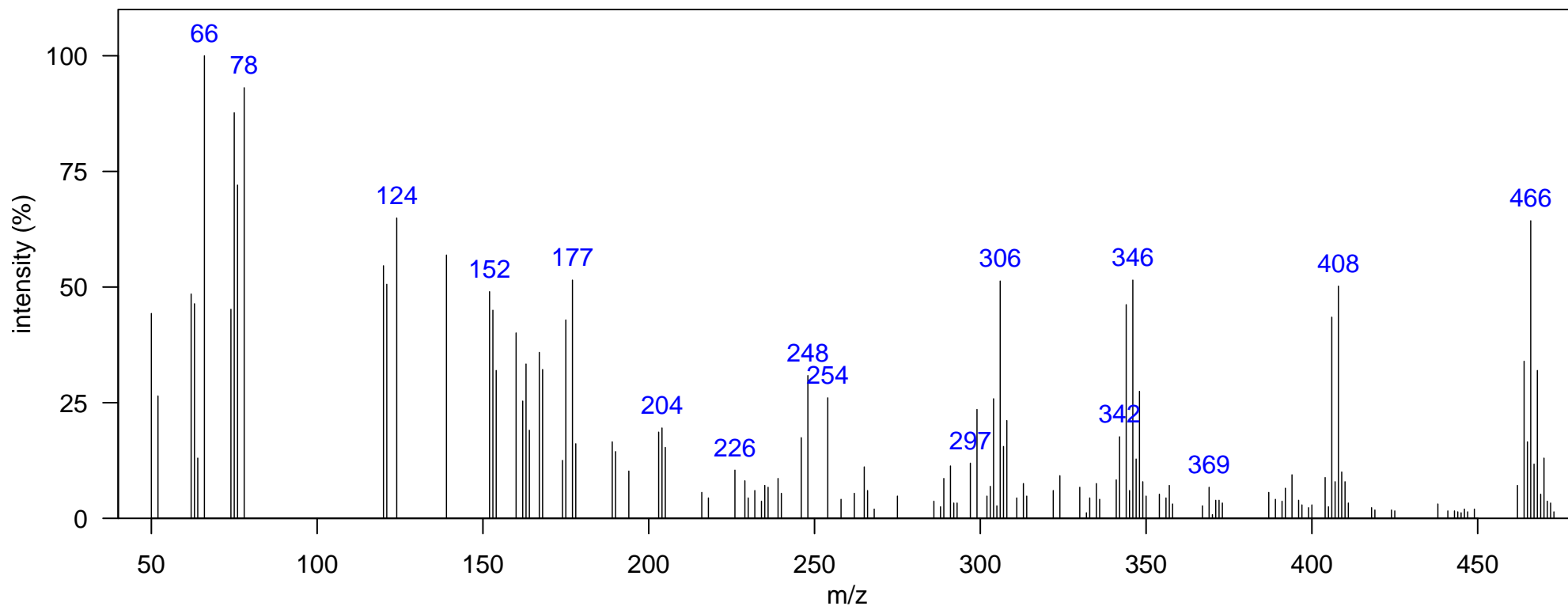
Name: DMBP Br3Cl2 3

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1568.95, 1.28  
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>

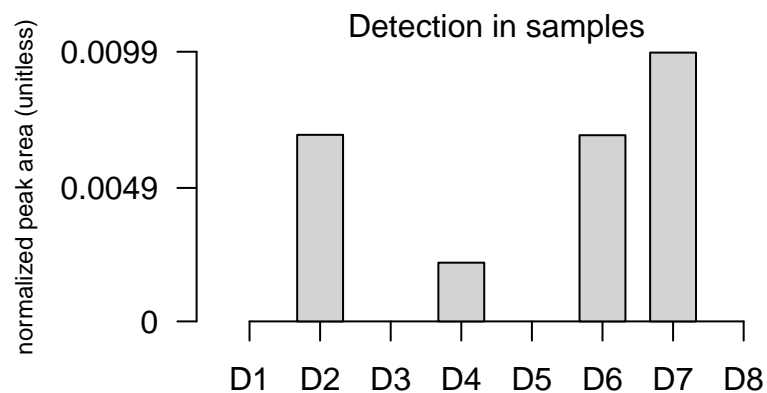
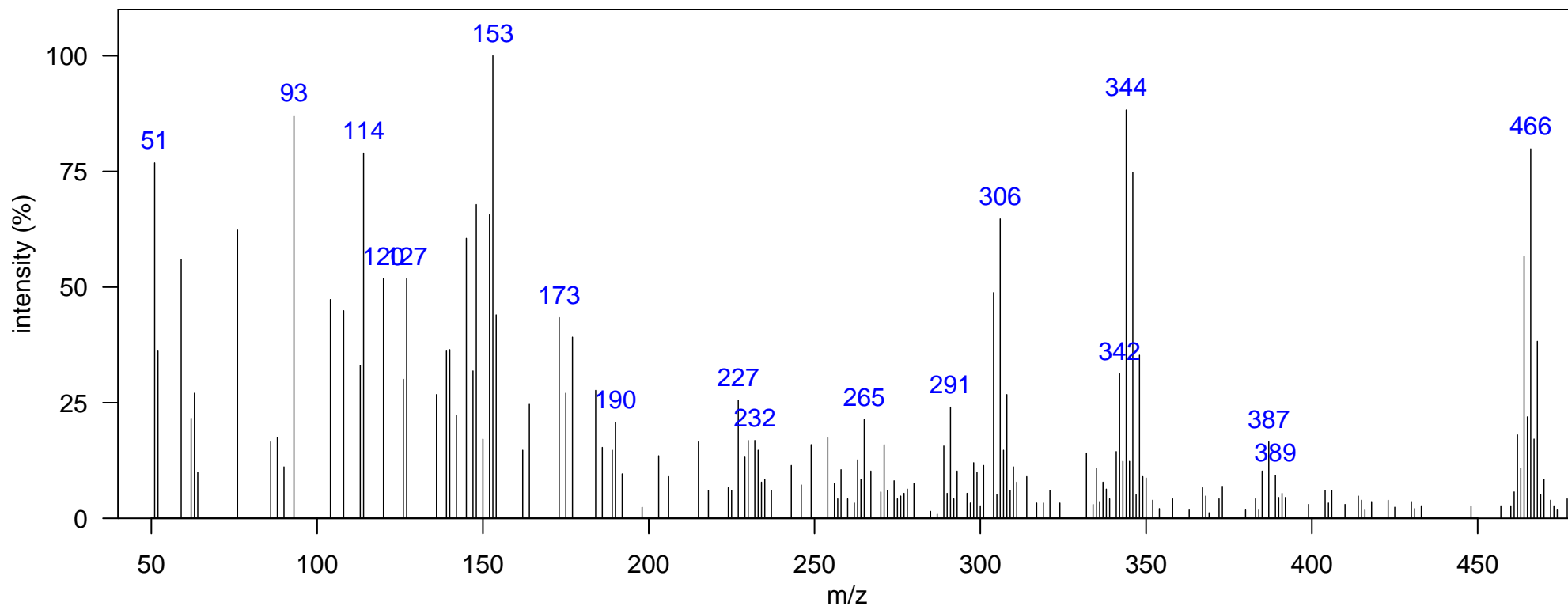
Name: DMBP Br3Cl2 4

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1593.43, 1.28  
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>

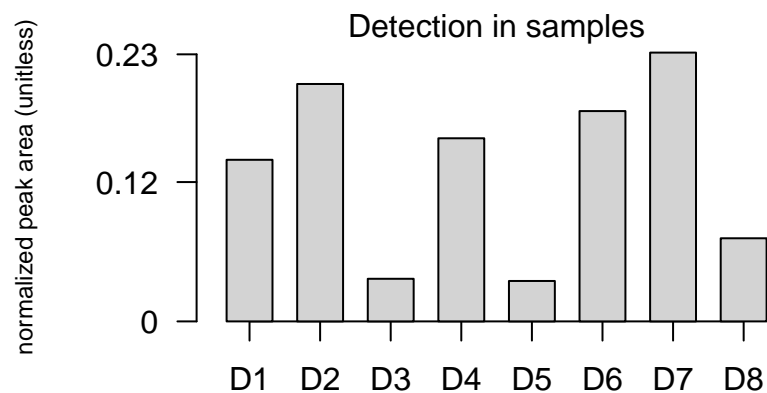
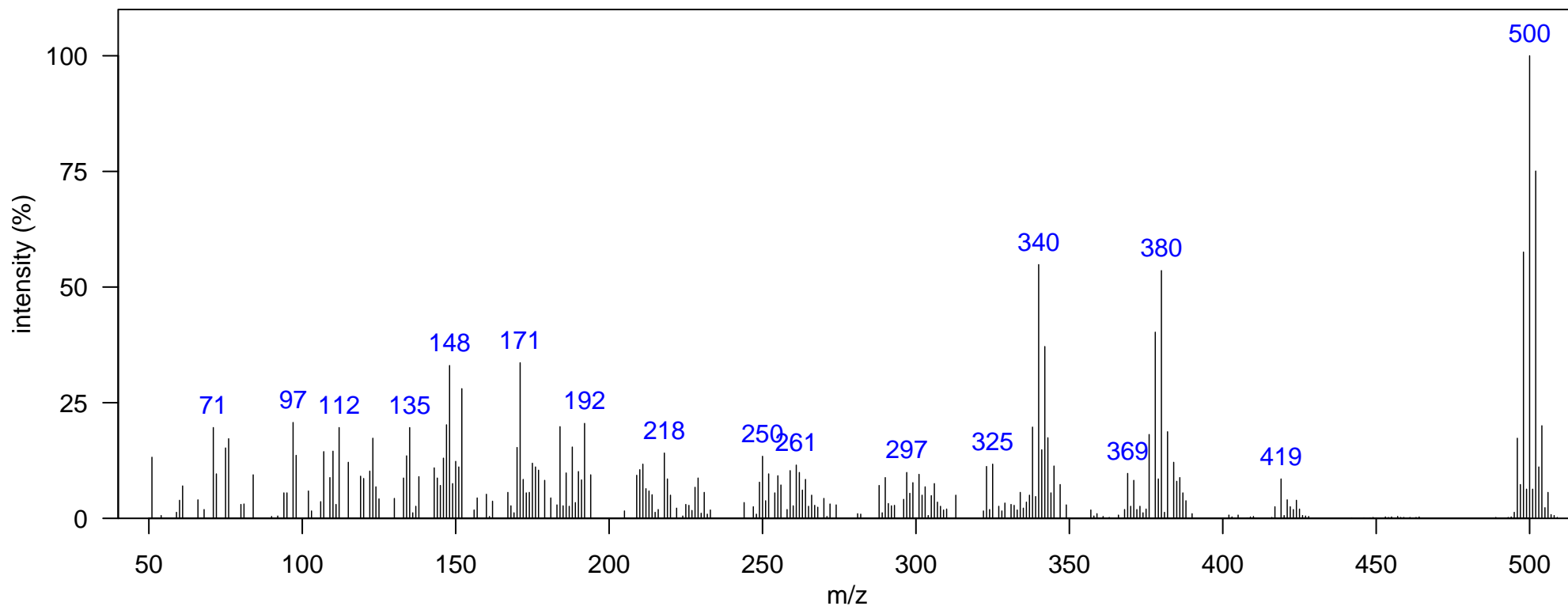
Name: DMBP Br3Cl3

Class: DMBP

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1537.46, 1.637  
Quantitative Ion m/z: 500  
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  
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>

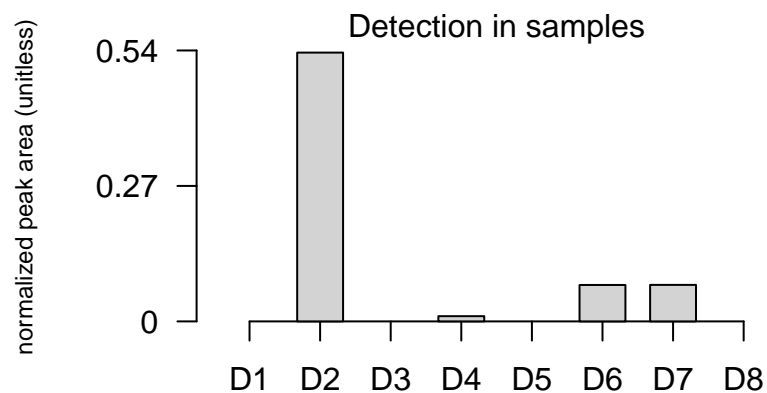
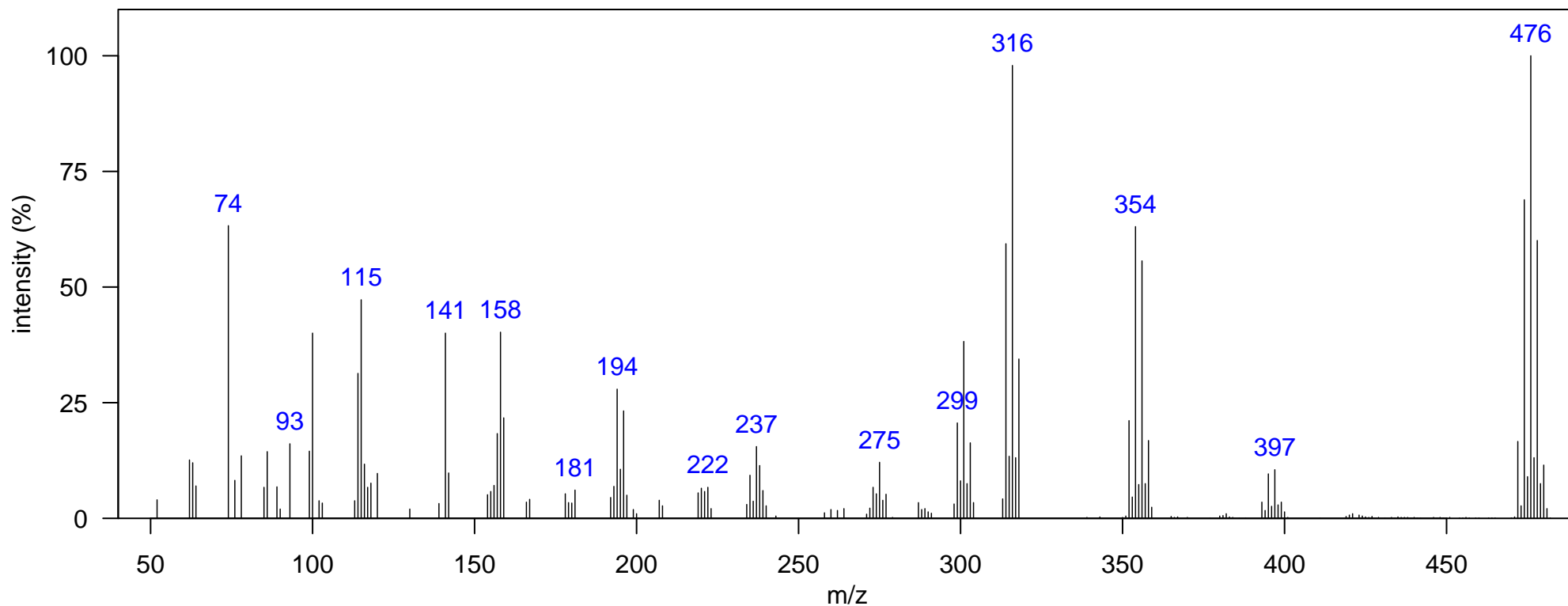
Name: DMBP 4Br 1

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1387.05, 1.379  
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



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>

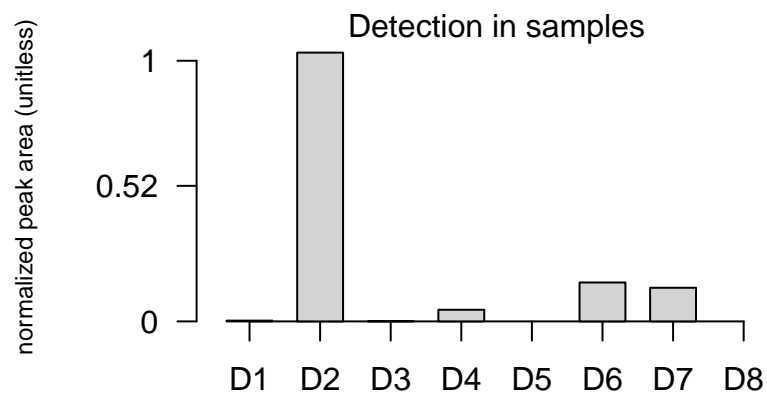
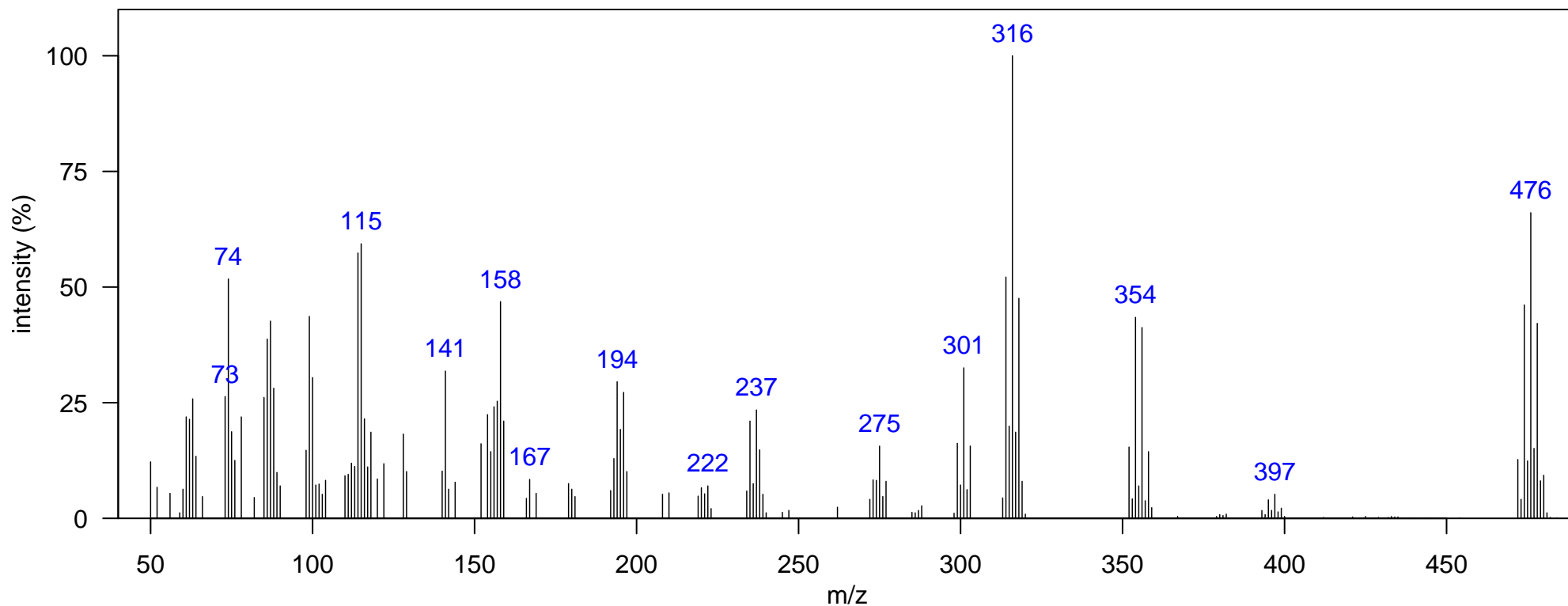
Name: DMBP 4Br 2

Class: DMBP

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1436.02, 1.525  
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



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

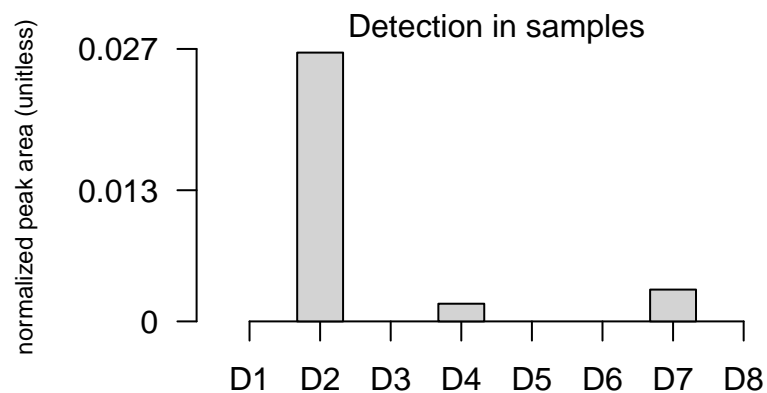
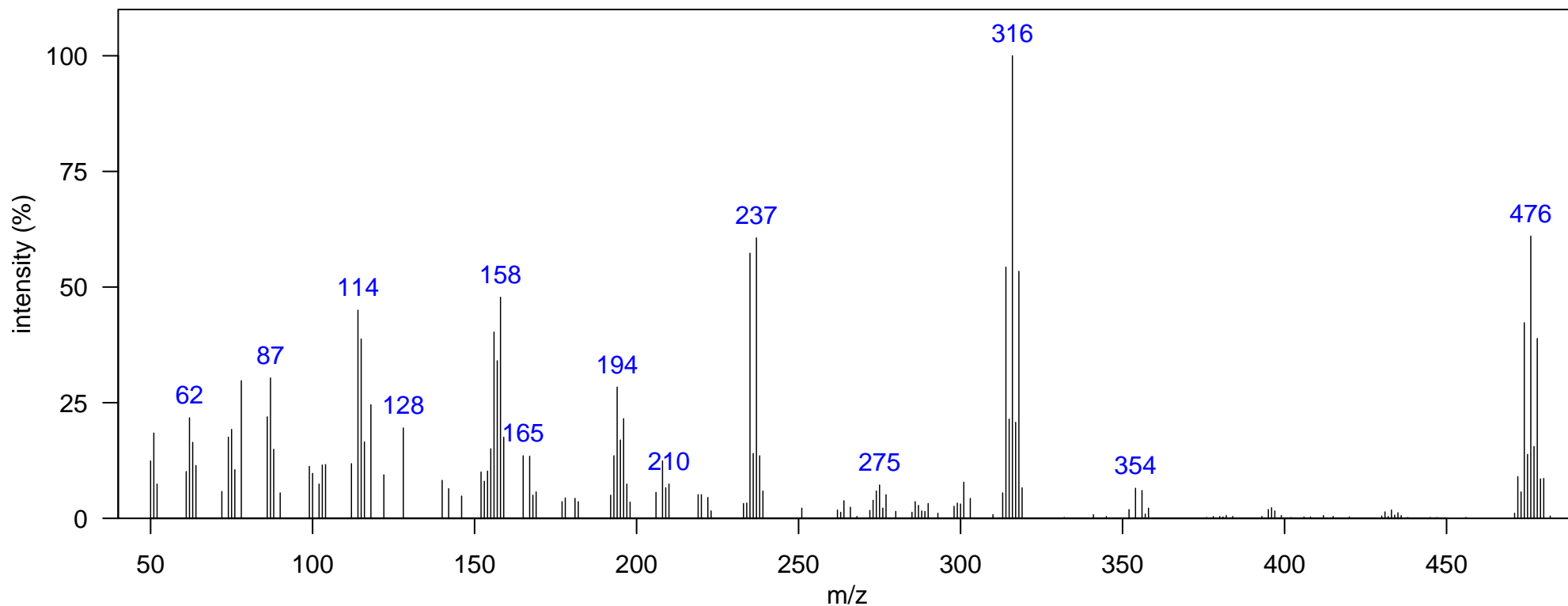
Name: DMBP 4Br 3

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1495.49, 1.663  
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>



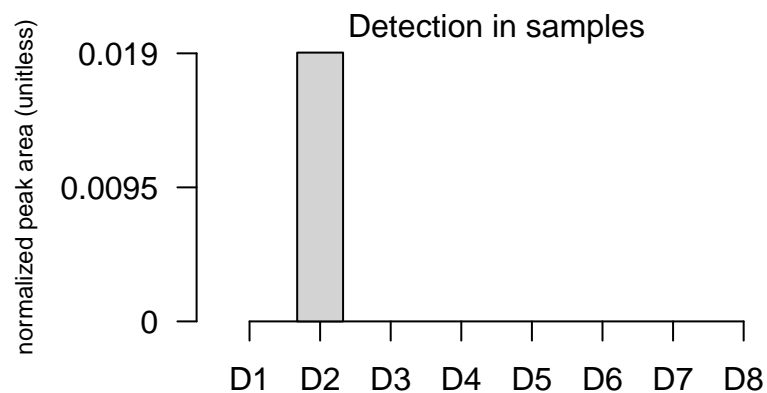
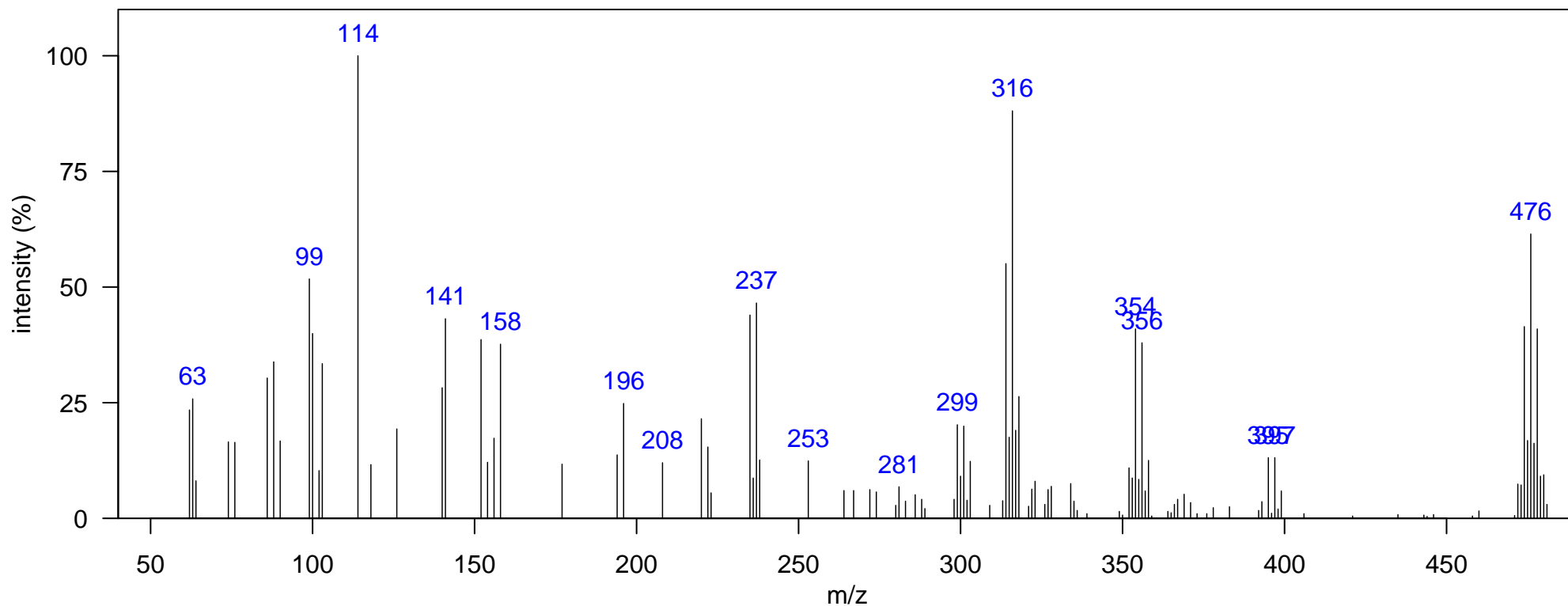
Name: DMBP 4Br 4

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1540.96, 1.353  
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>

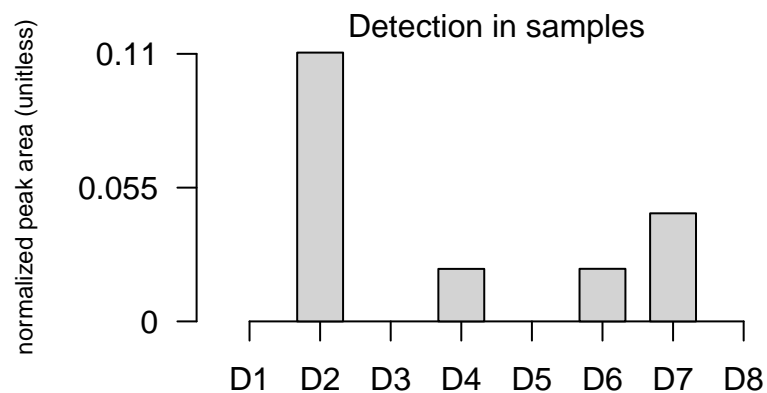
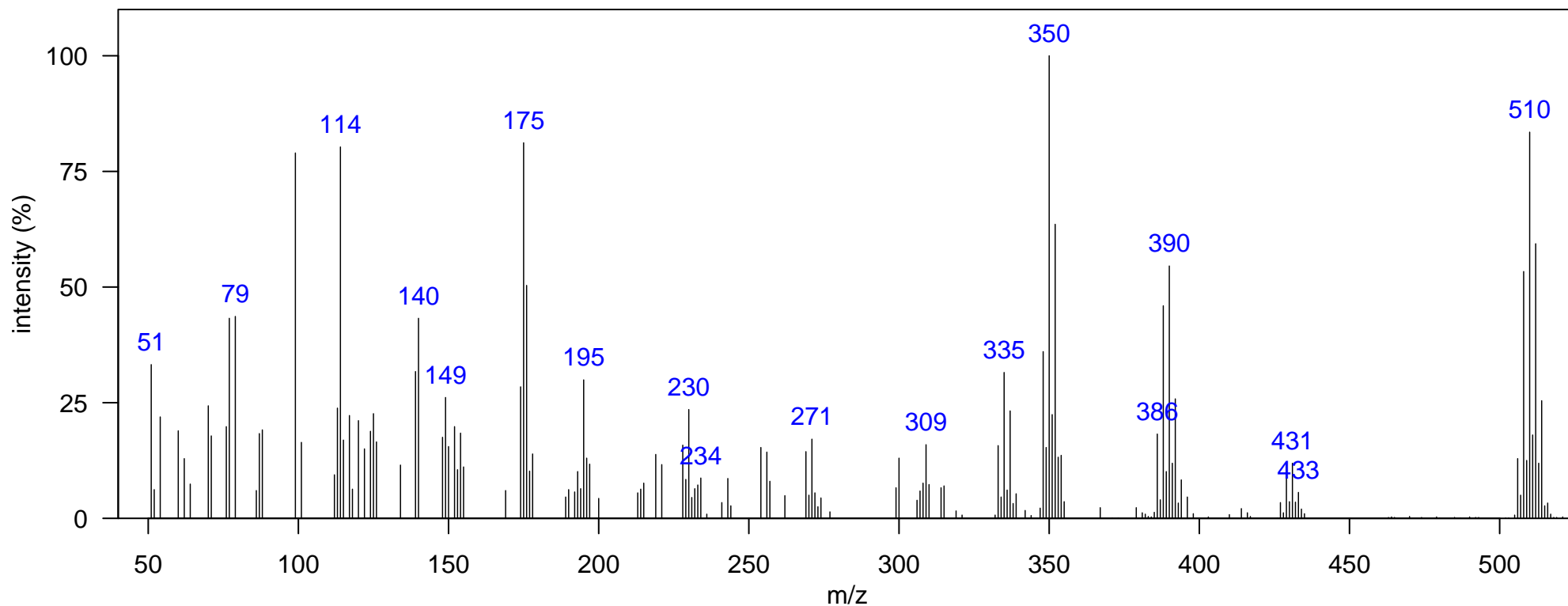
Name: DMBP Br4Cl 1

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1488.49, 1.505  
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>

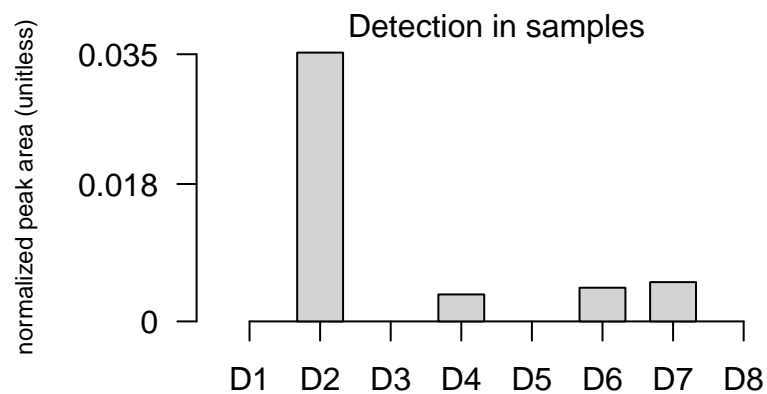
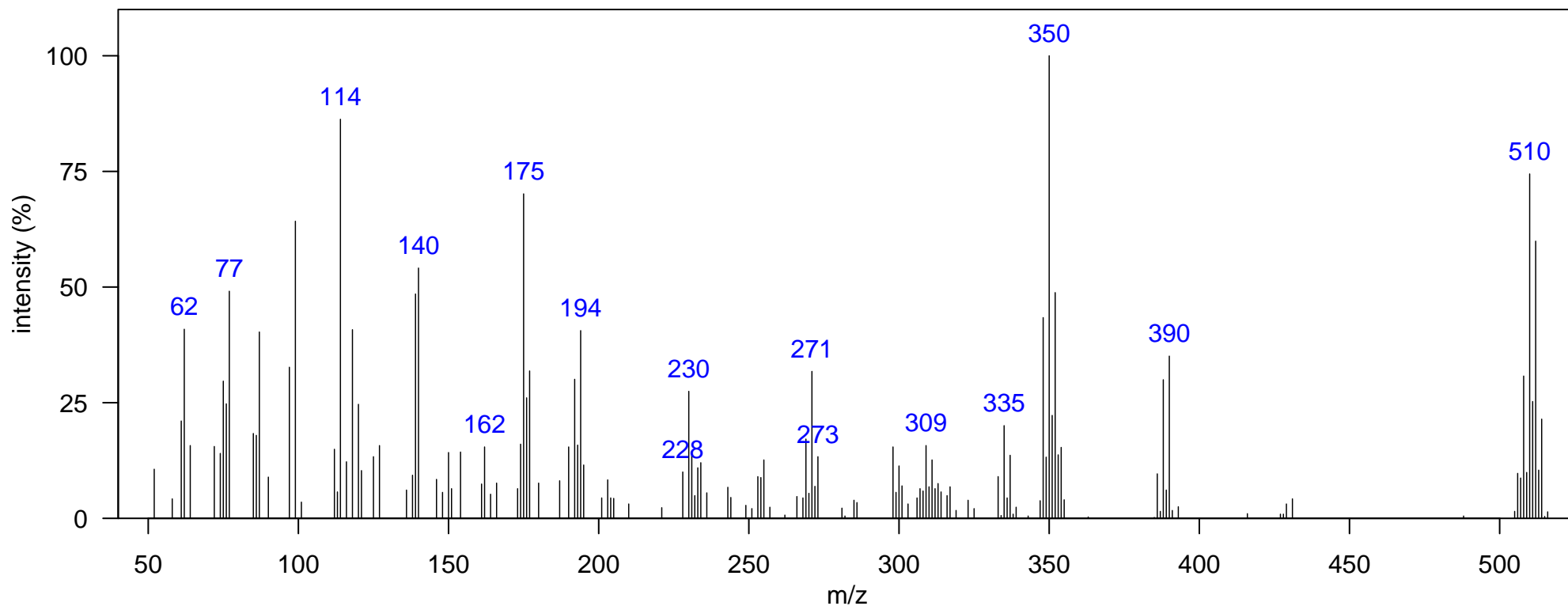
Name: DMBP Br4Cl 2

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1544.46, 1.769  
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>

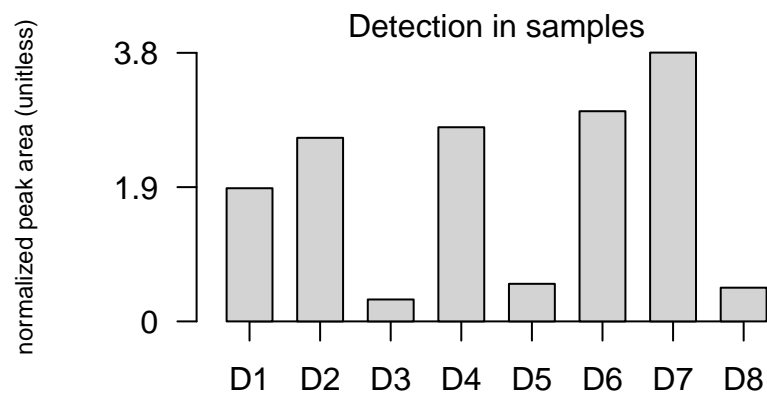
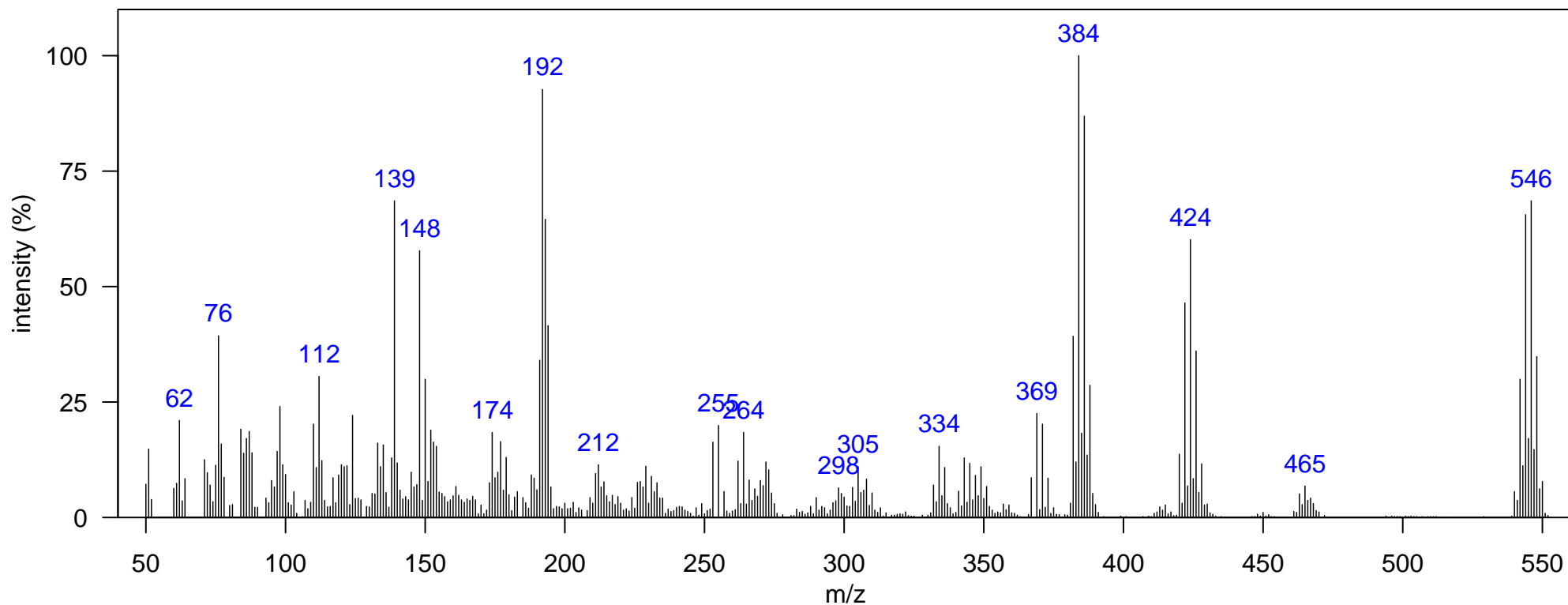
Name: DMBP Br4Cl2

Class: DMBP

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

1D RT, 2D RT (s): 1593.43, 1.921  
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>

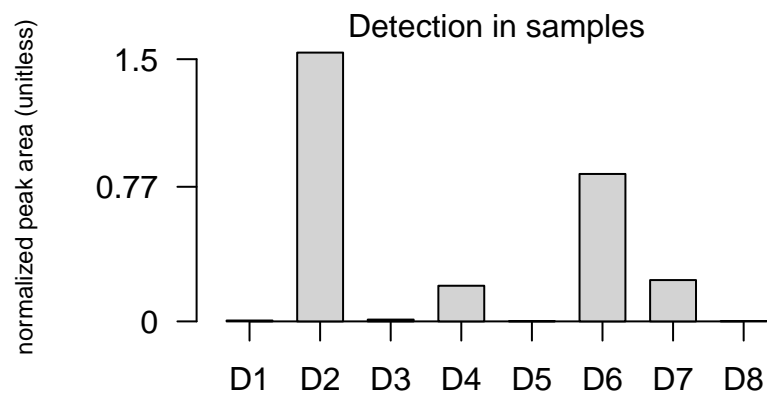
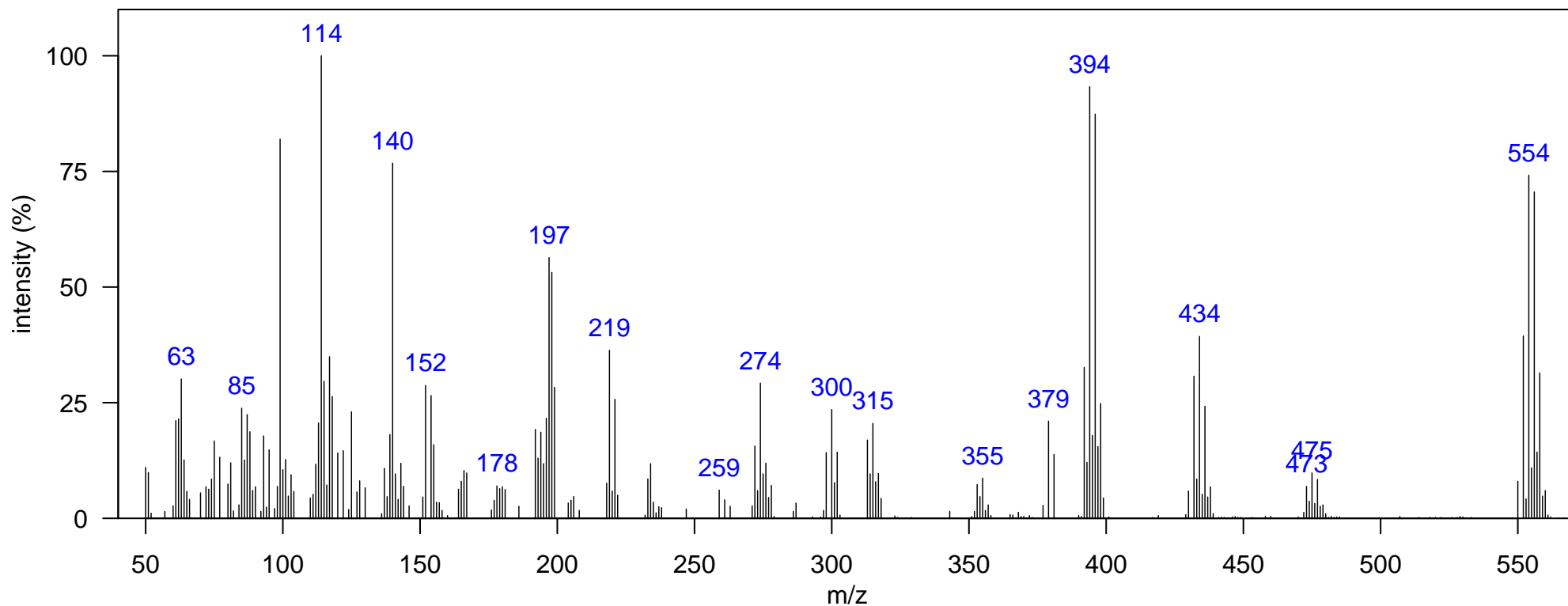
Name: DMBP 5Br 1

Class: DMBP

Sample: SoCal dolphin blubber D7,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1537.46, 1.683  
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>

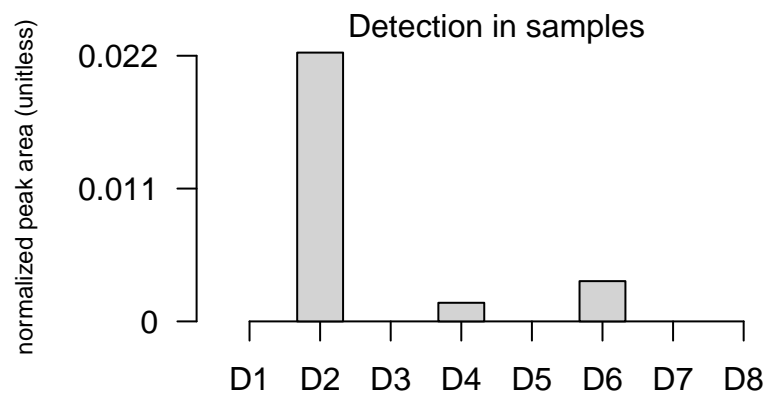
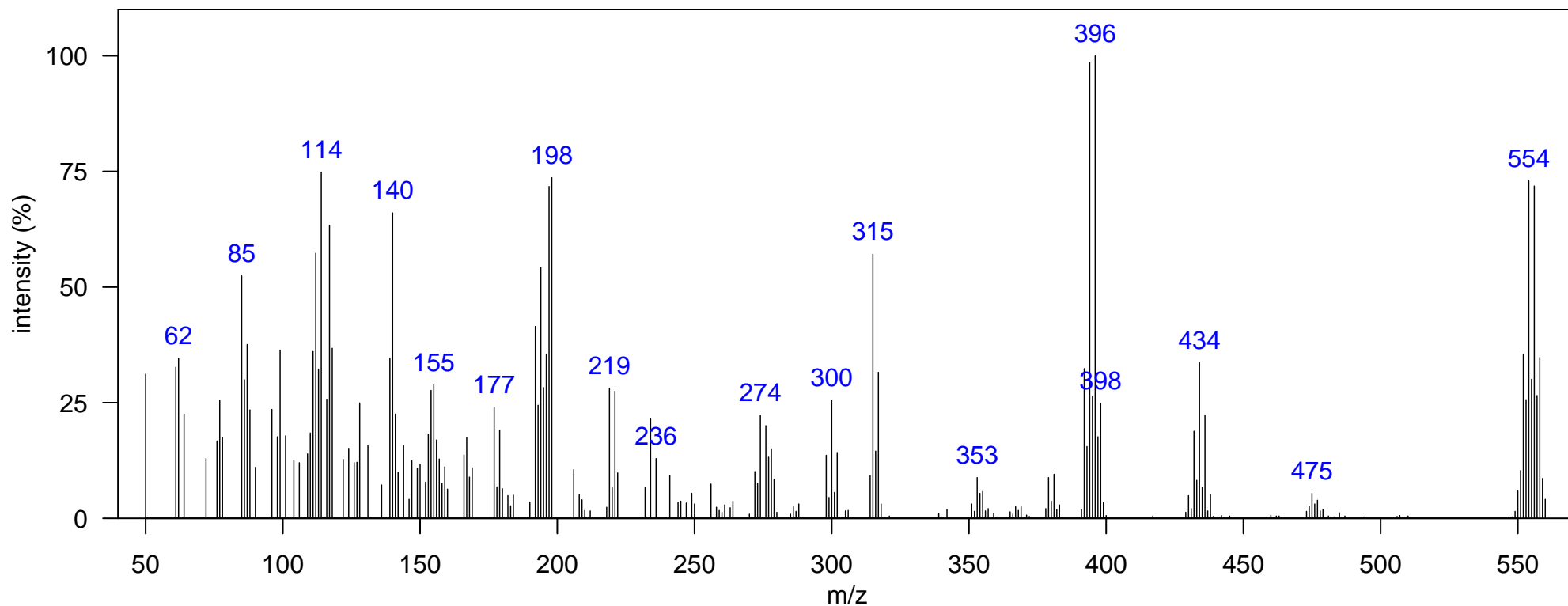
Name: DMBP 5Br 2

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1600.43, 2.099  
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>

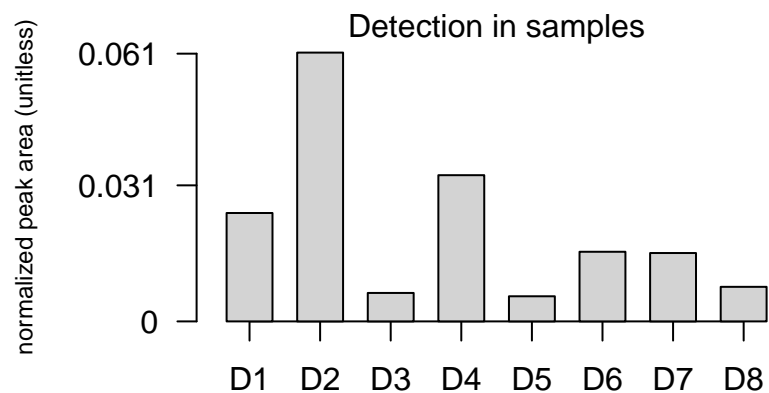
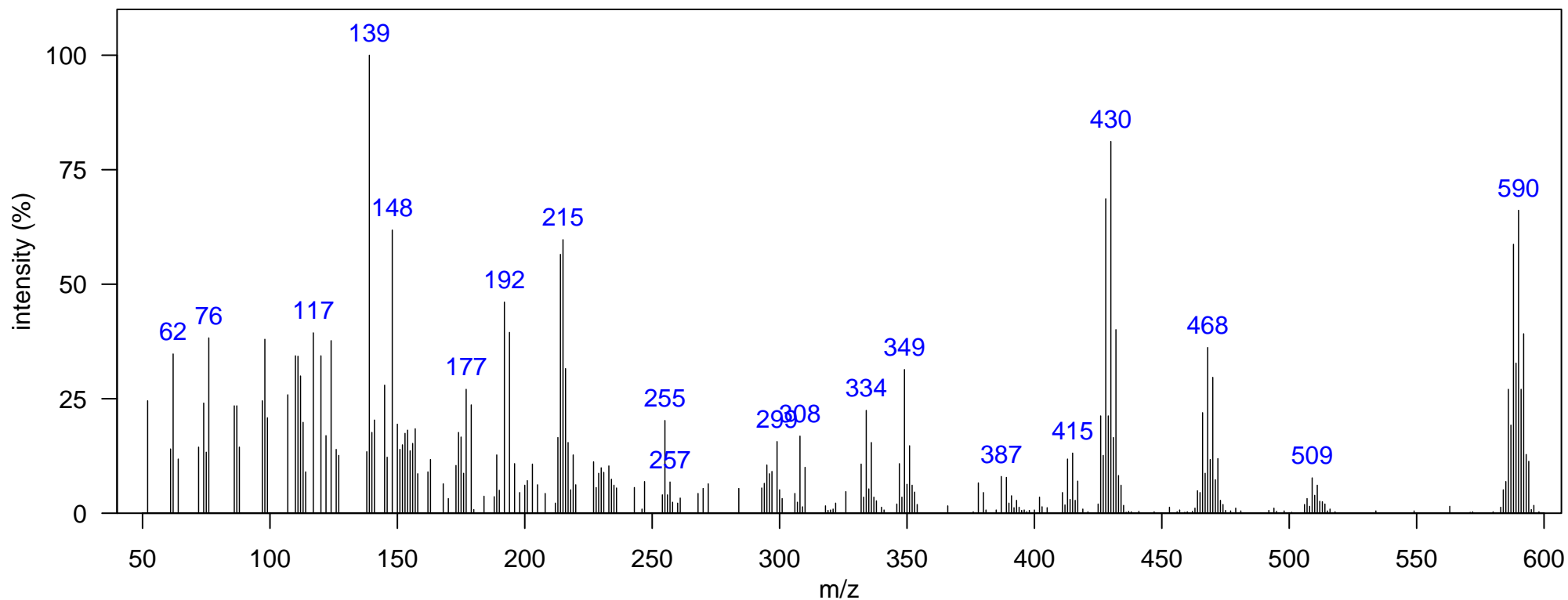
Name: DMBP Br5Cl

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1656.4, 2.284  
Quantitative Ion m/z: 590  
Atlantic Lib: DMBP Br5Cl

Elemental Formula: C<sub>10</sub>H<sub>6</sub>Br<sub>5</sub>ClN<sub>2</sub>  
Source: natural  
Identification: Authentic MS RT



m/z [Fragment]
426 [M-Br <sub>2</sub> ] <sup>+</sup>
464 [M-BrCNCH <sub>3</sub> ] <sup>+</sup>
584 M <sup>+</sup>

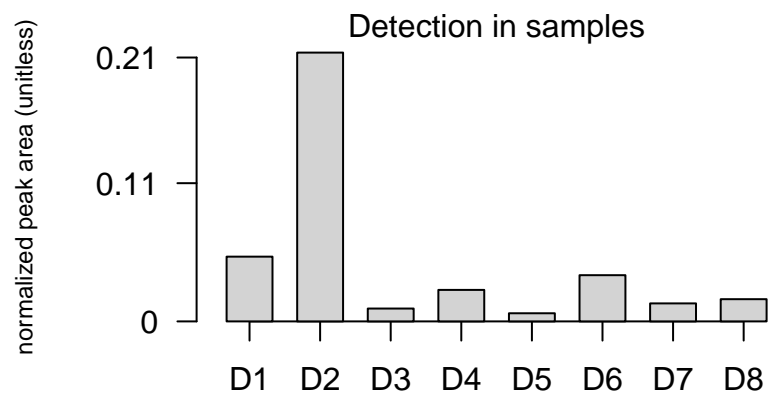
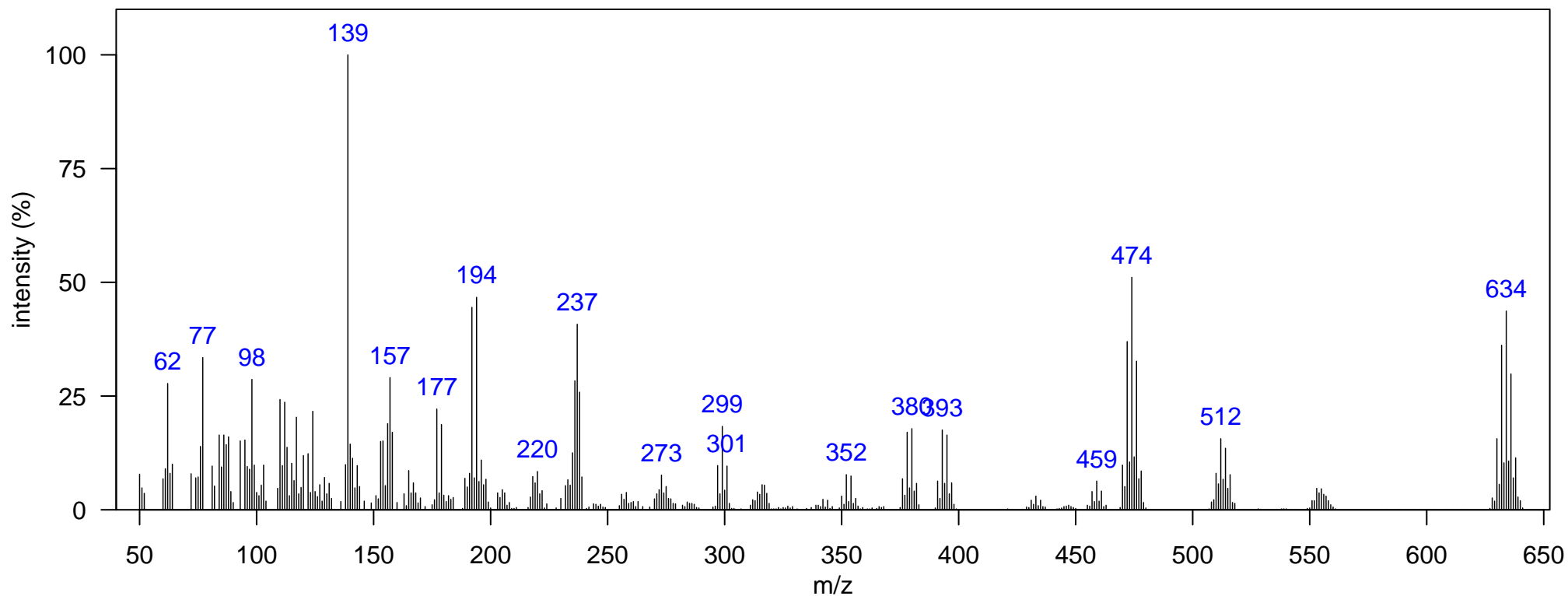
Name: DMBP 6Br

Class: DMBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1722.86, 2.323  
Quantitative Ion m/z: 634  
Atlantic Lib: DMBP 6Br

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



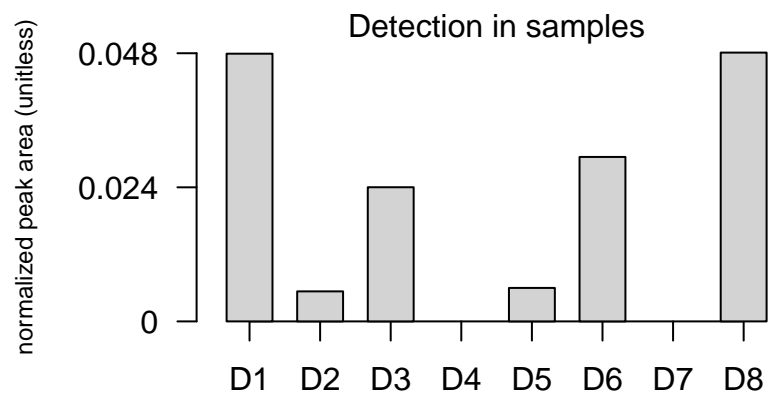
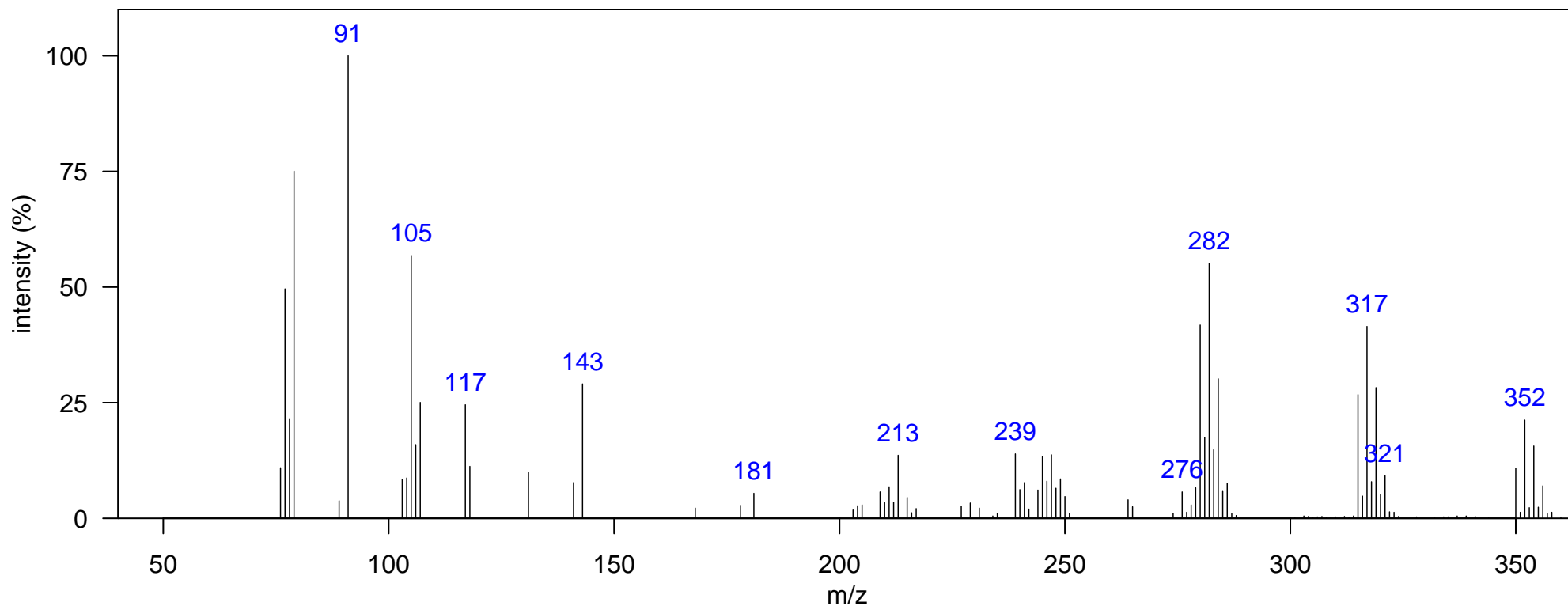
Name: MBP 6Cl 1

Class: MBP

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

1D RT, 2D RT (s): 1247.13, 1.188  
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-Cl3]+
280 [M-Cl2]+
315 [M-Cl]+
350 M+

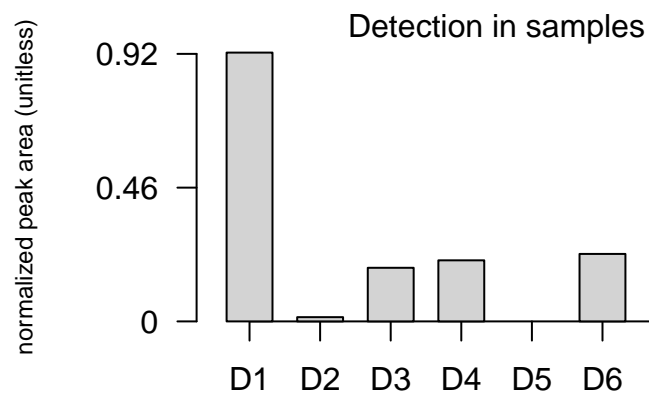
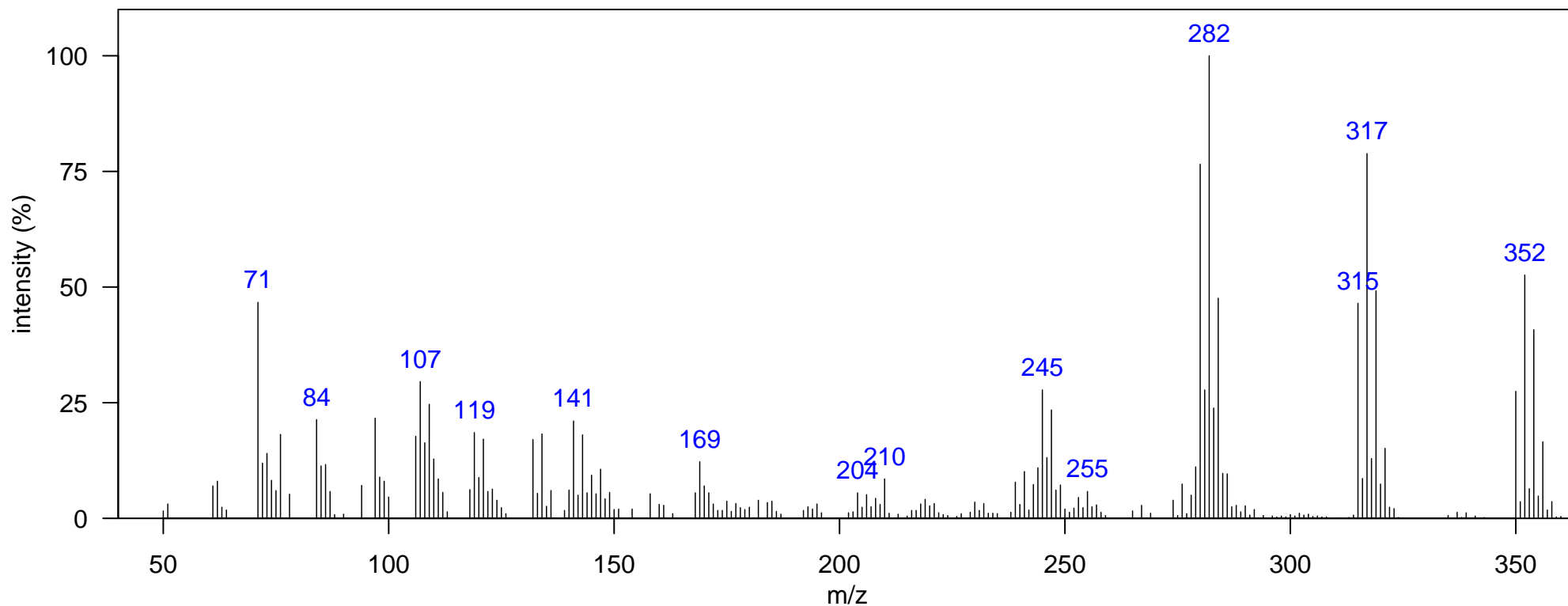
Name: MBP 6Cl 2

Class: MBP

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

1D RT, 2D RT (s): 1257.62, 1.214  
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-Cl3]+
280 [M-Cl2]+
315 [M-Cl]+
350 M+

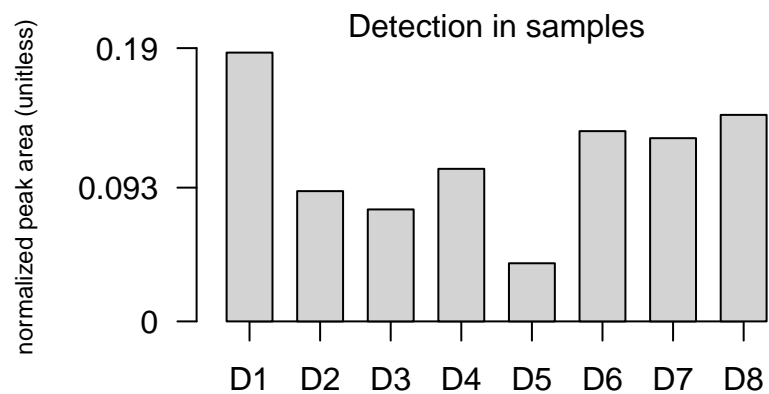
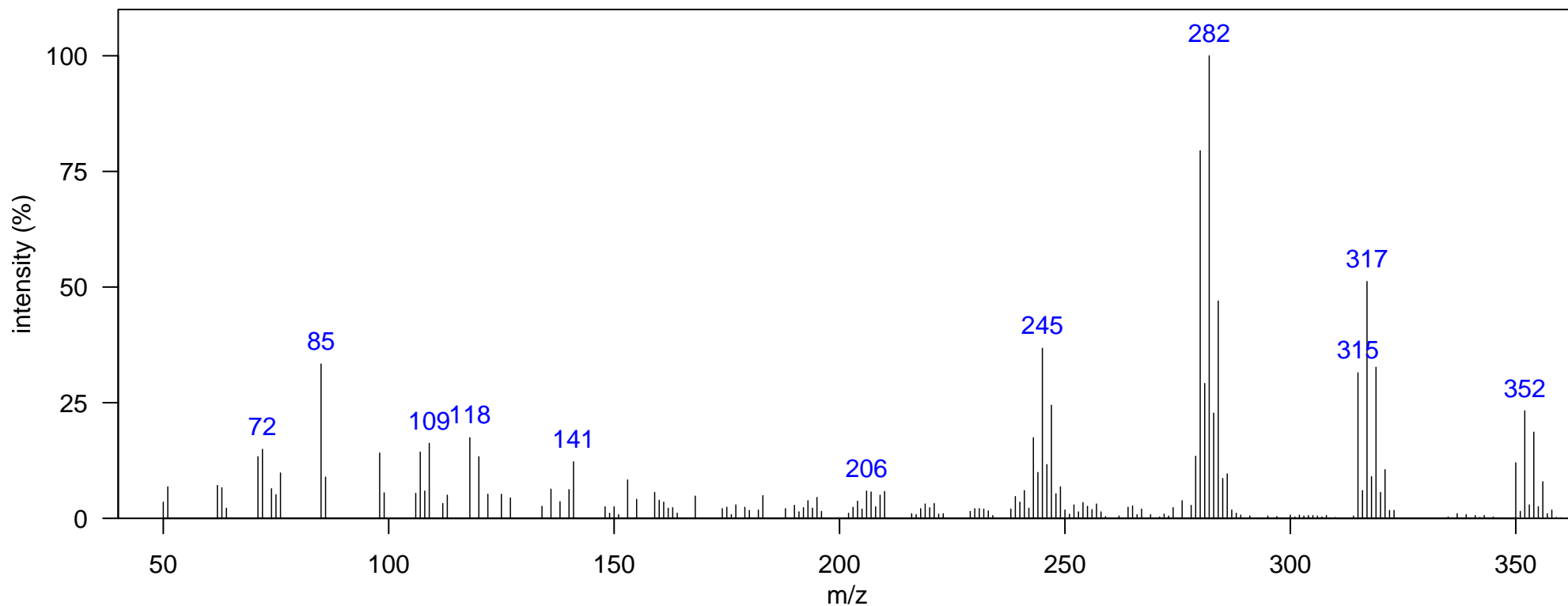
Name: MBP 6Cl 3

Class: MBP

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

1D RT, 2D RT (s): 1299.6, 1.221  
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]
280 [M-Cl <sub>2</sub> ] <sup>+</sup>
315 [M-Cl] <sup>+</sup>
350 M <sup>+</sup>

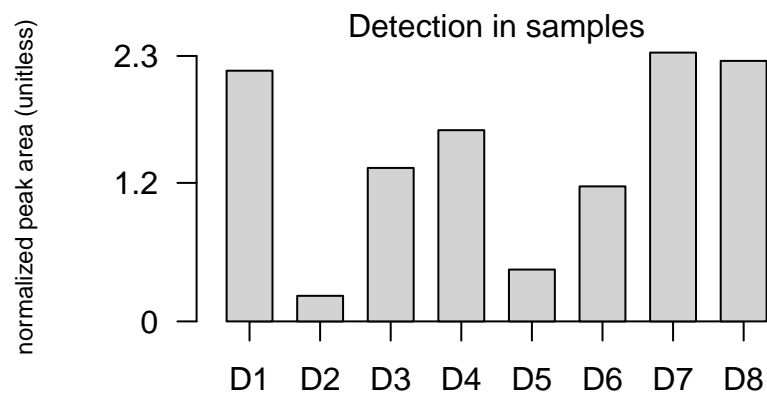
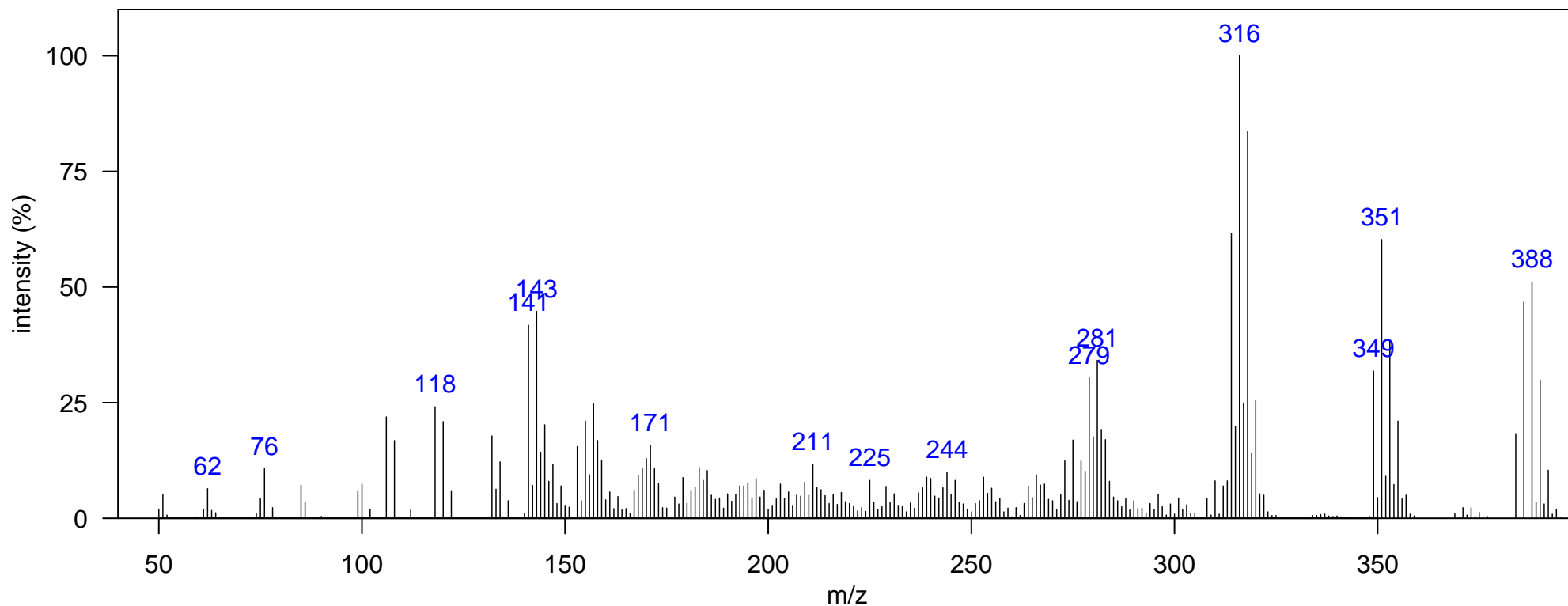
Name: MBP 7CI

Class: MBP

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

1D RT, 2D RT (s): 1348.57, 1.234  
Quantitative Ion m/z: 388  
Atlantic Lib: MBP 7CI

Elemental Formula: C<sub>9</sub>H<sub>3</sub>Cl<sub>7</sub>N<sub>2</sub>  
Source: natural  
Identification: Authentic MS RT



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

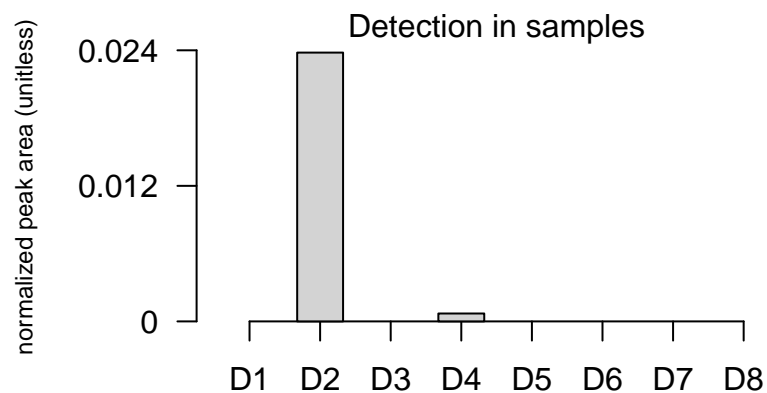
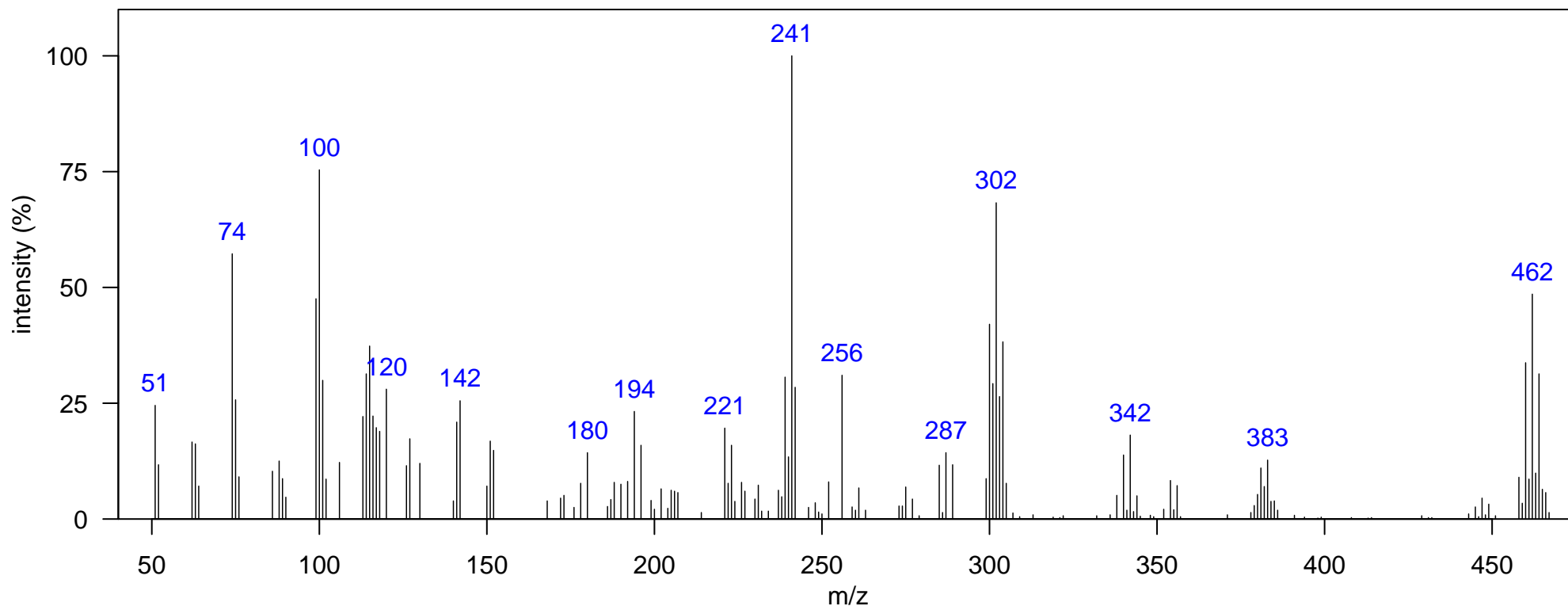
Name: MBP 4Br 1

Class: MBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1429.03, 1.498  
Quantitative Ion m/z: 462  
Atlantic Lib: MBP 4Br

Elemental Formula: C<sub>9</sub>H<sub>6</sub>Br<sub>4</sub>N<sub>2</sub>  
Source: natural  
Identification: Manual-Congener Group



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

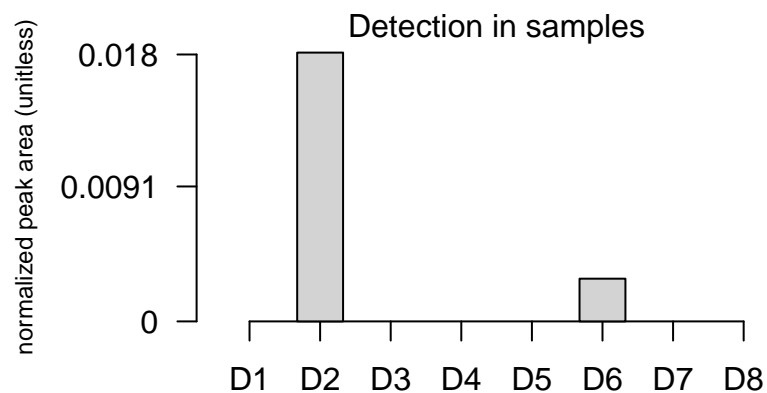
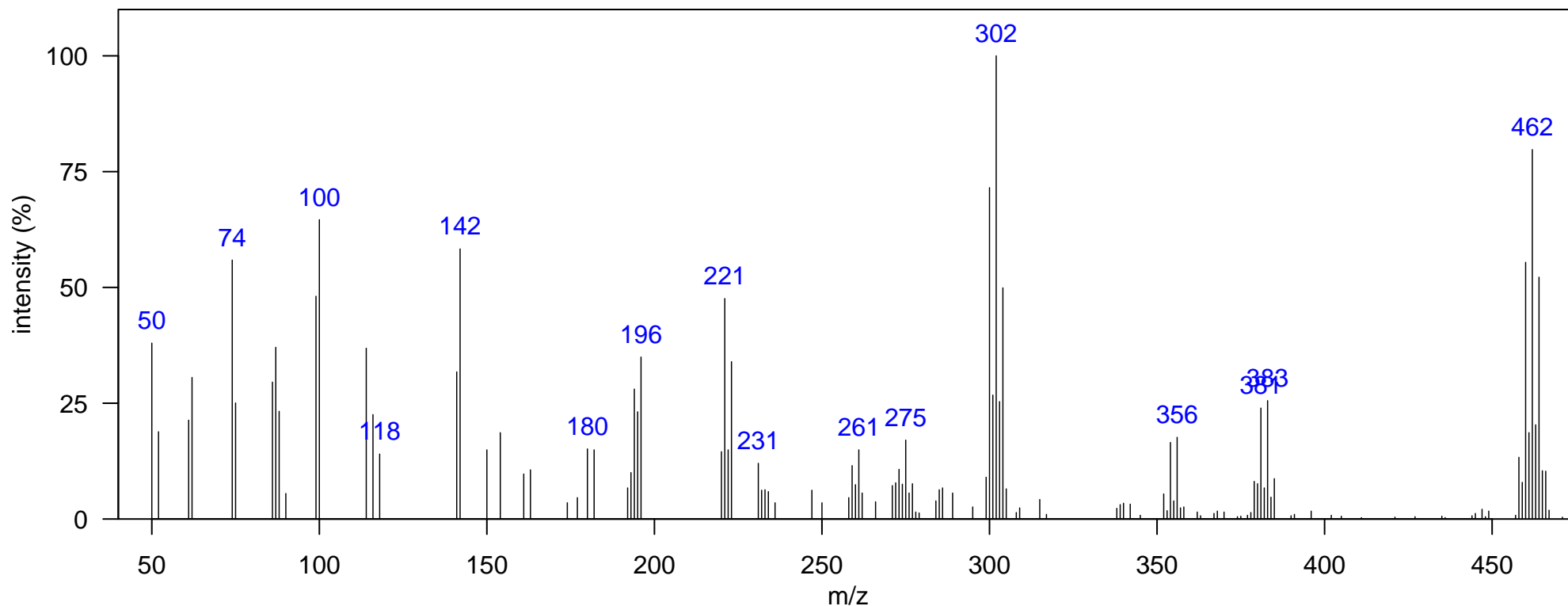
Name: MBP 4Br 2

Class: MBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1484.99, 1.604  
Quantitative Ion m/z: 462  
Atlantic Lib: MBP 4Br

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

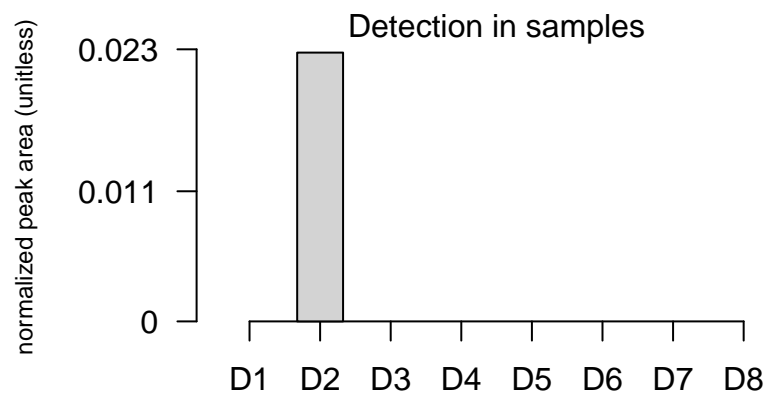
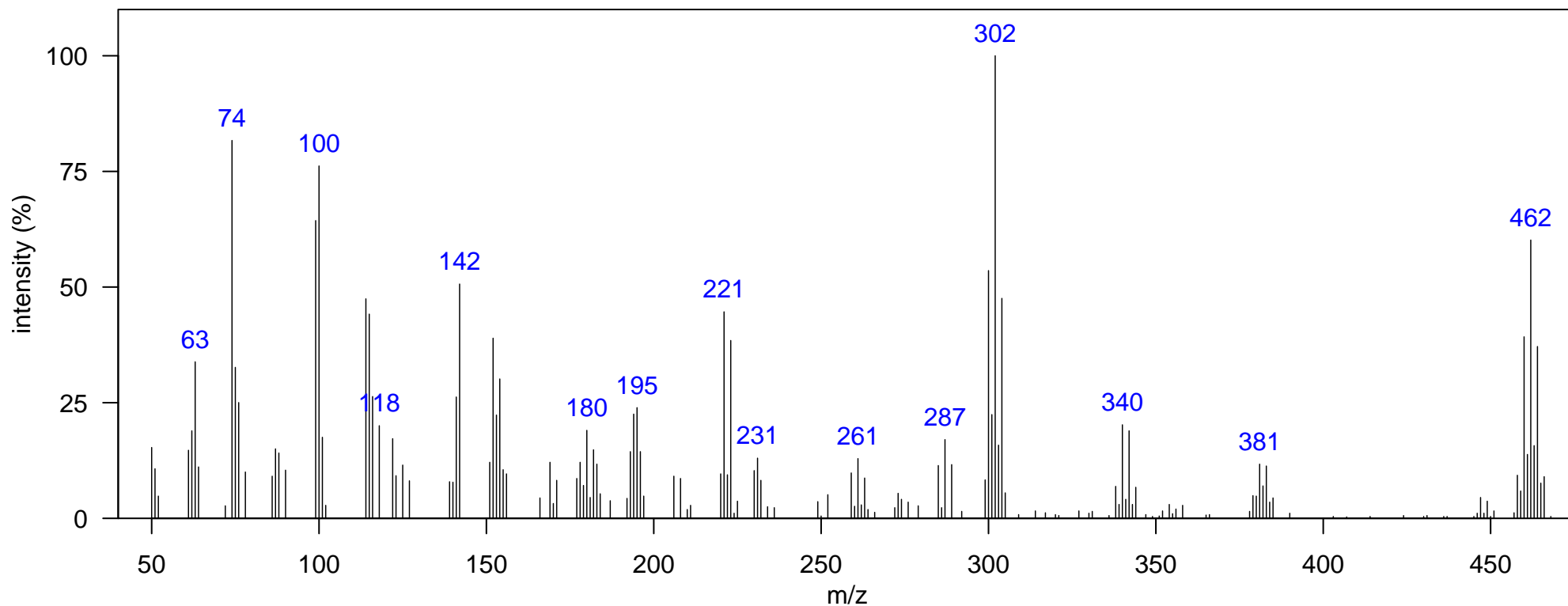
Name: MBP 4Br 3

Class: MBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1519.97, 1.762  
Quantitative Ion m/z: 462  
Atlantic Lib: MBP 4Br

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

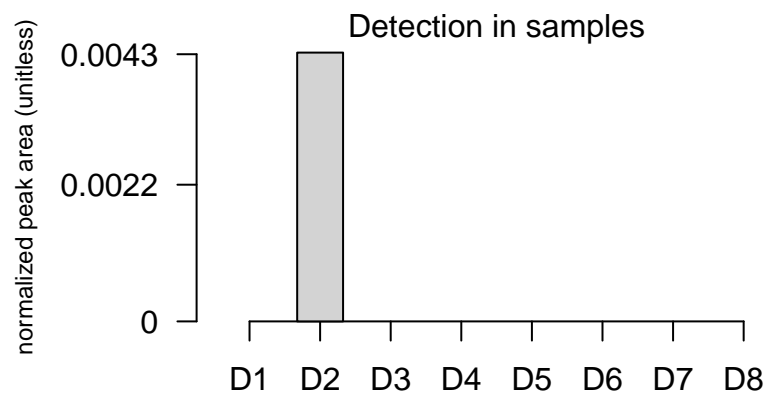
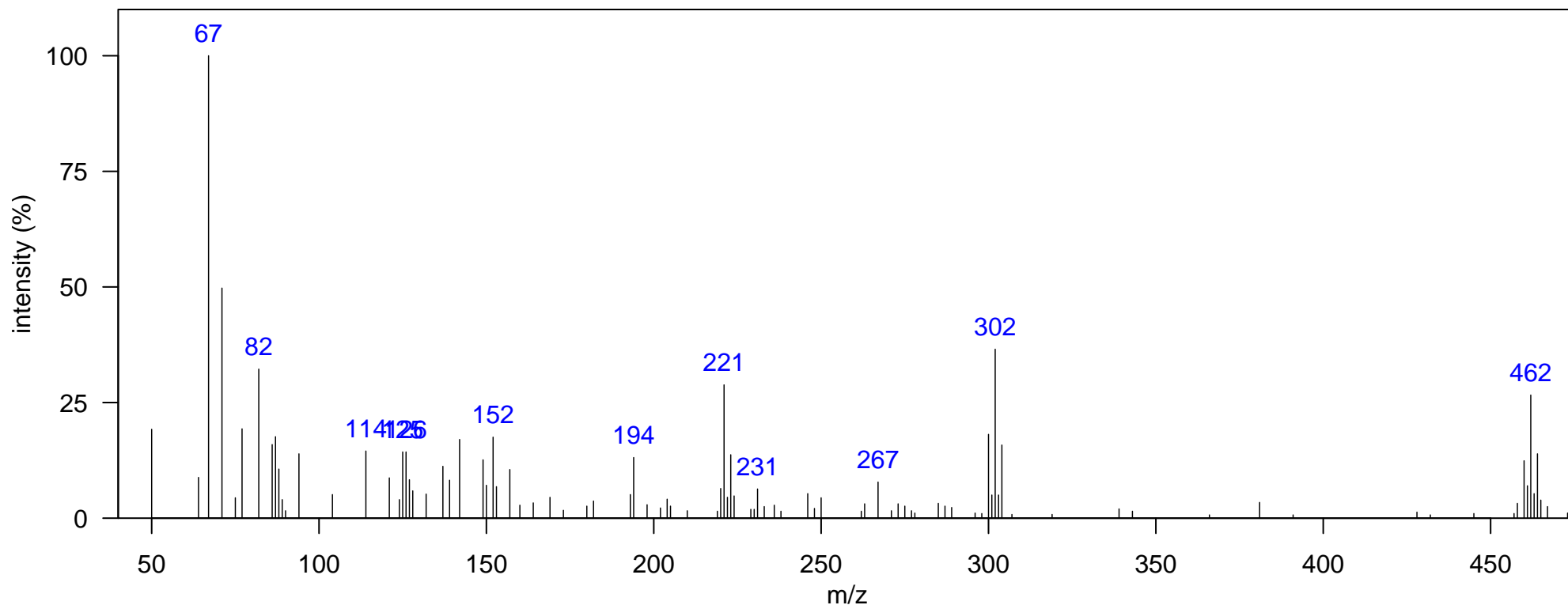
Name: MBP 4Br 4

Class: MBP

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1575.94, 2.185  
Quantitative Ion m/z: 462  
Atlantic Lib: MBP 4Br

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



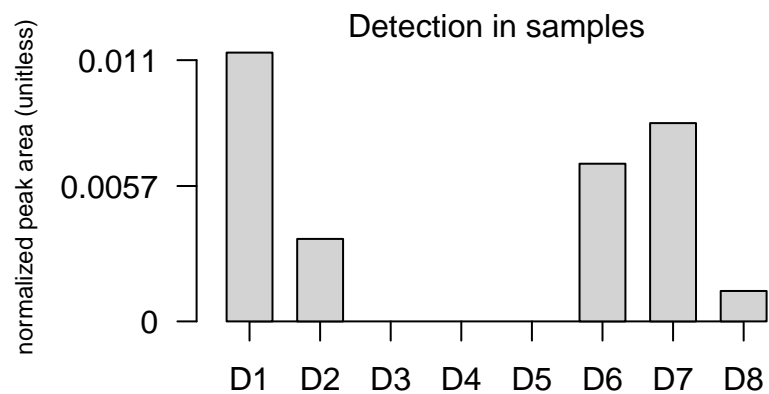
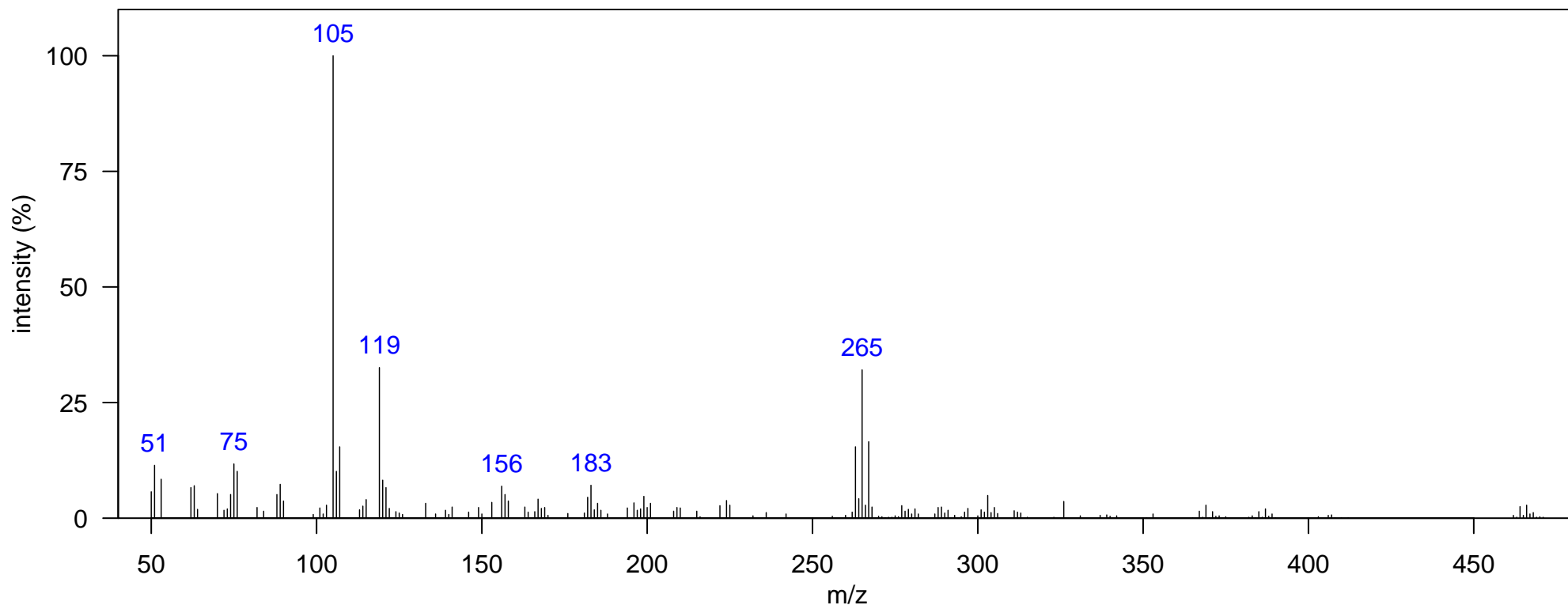
Name: PBHD 3Br 1

Class: PBHD

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

1D RT, 2D RT (s): 1645.9, 1.98  
Quantitative Ion m/z: 387  
Atlantic Lib: PBHD 3Br

Elemental Formula: C<sub>16</sub>H<sub>19</sub>Br<sub>3</sub>O  
Source: natural  
Identification: Authentic MS



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

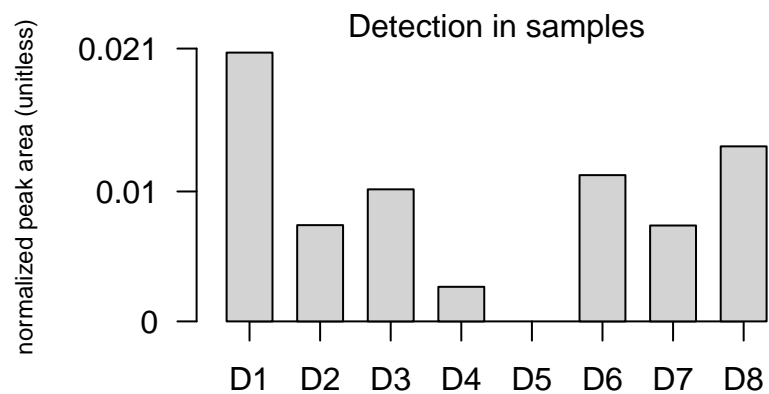
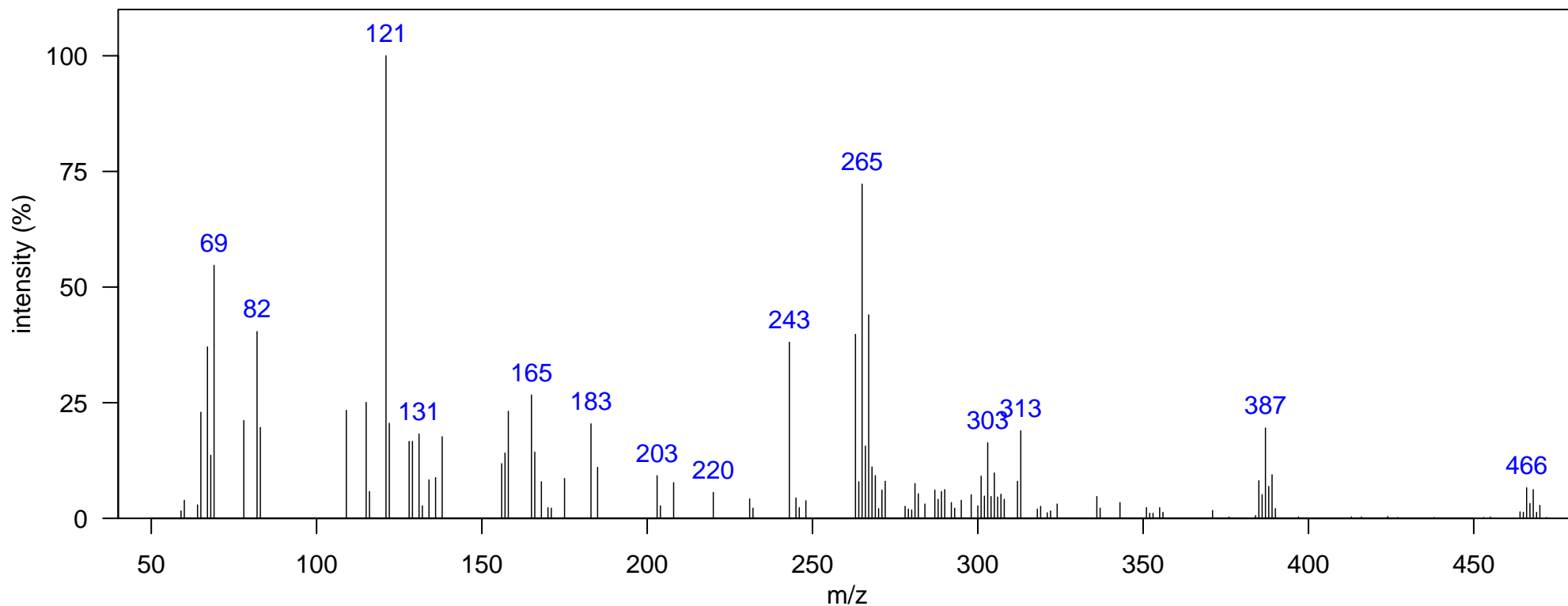
Name: PBHD 3Br 2

Class: PBHD

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1680.88, 2.145  
Quantitative Ion m/z: 387  
Atlantic Lib: PBHD 3Br

Elemental Formula: C<sub>16</sub>H<sub>19</sub>Br<sub>3</sub>O  
Source: natural  
Identification: Authentic MS



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

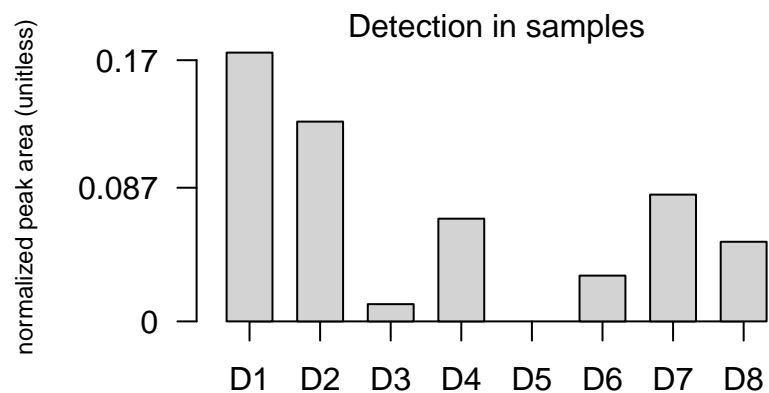
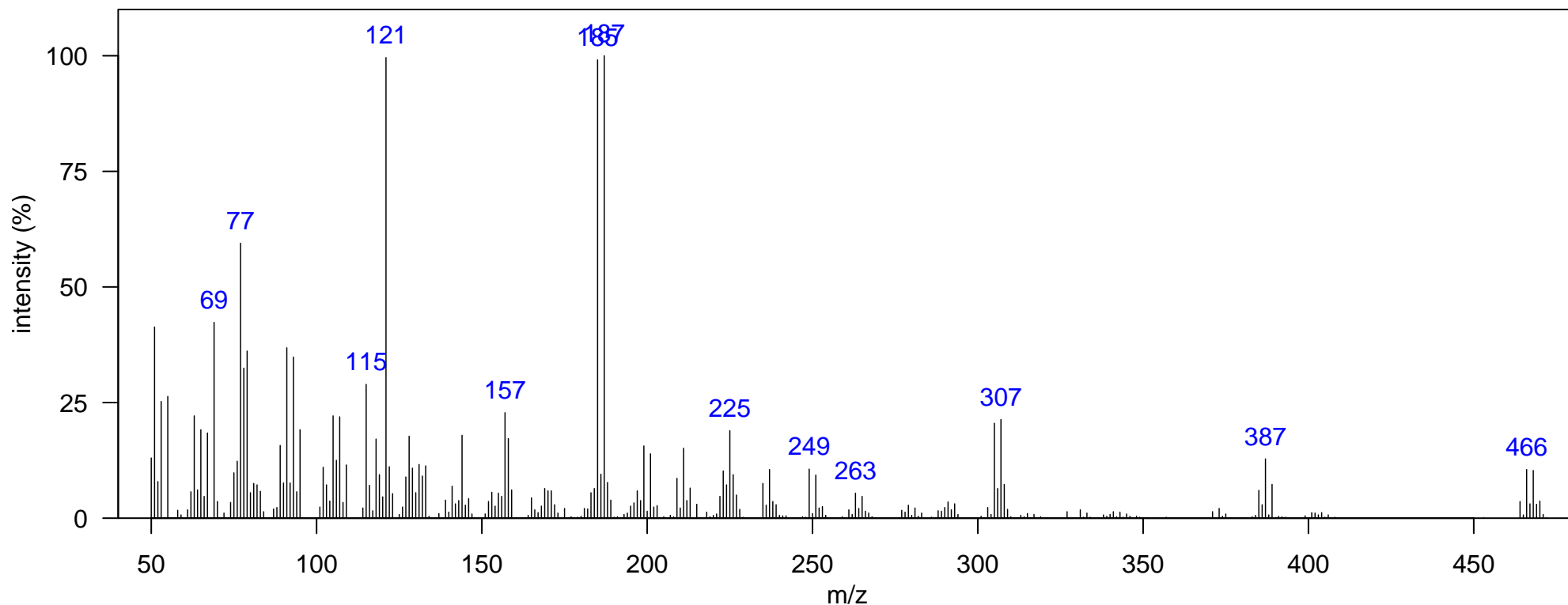
Name: PBHD 3Br 3

Class: PBHD

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

1D RT, 2D RT (s): 1712.36, 2.171  
Quantitative Ion m/z: 387  
Atlantic Lib: PBHD 3Br

Elemental Formula: C<sub>16</sub>H<sub>19</sub>Br<sub>3</sub>O  
Source: natural  
Identification: Authentic MS RT



m/z [Fragment]
385 [M-Br]⁺
464 M⁺

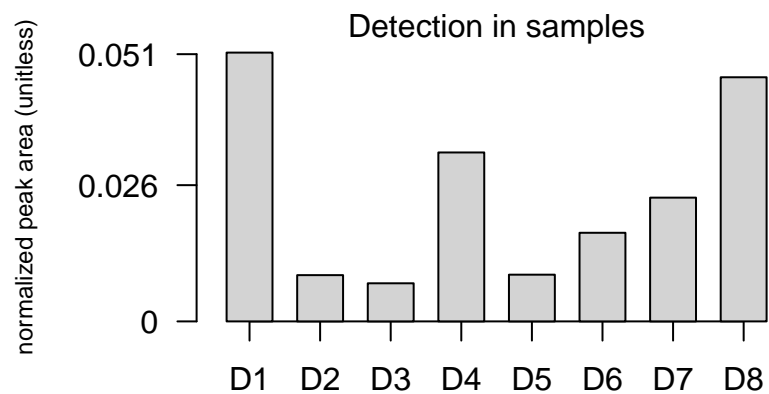
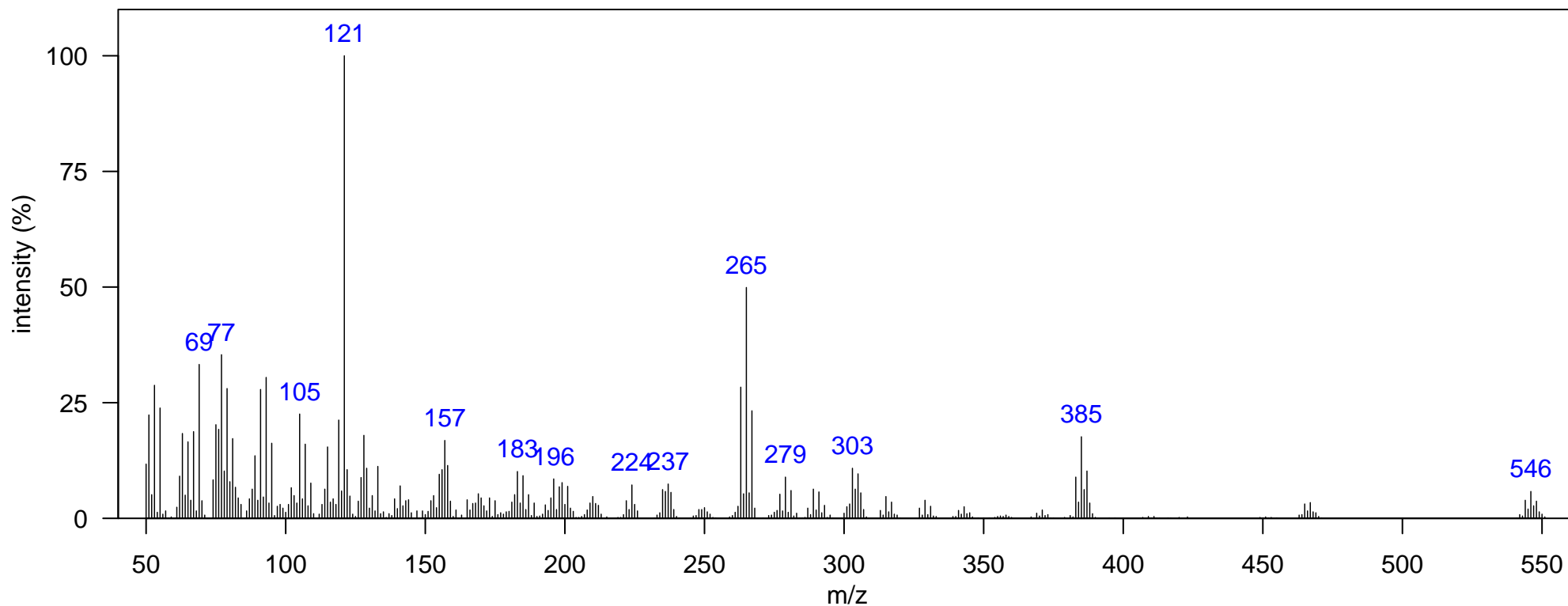
Name: PBHD 4Br

Class: PBHD

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

1D RT, 2D RT (s): 1897.76, 2.911  
Quantitative Ion m/z: 546  
Atlantic Lib: PBHD 4Br

Elemental Formula: C<sub>16</sub>H<sub>18</sub>Br<sub>4</sub>O  
Source: natural  
Identification: Authentic MS RT



m/z [Fragment]

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

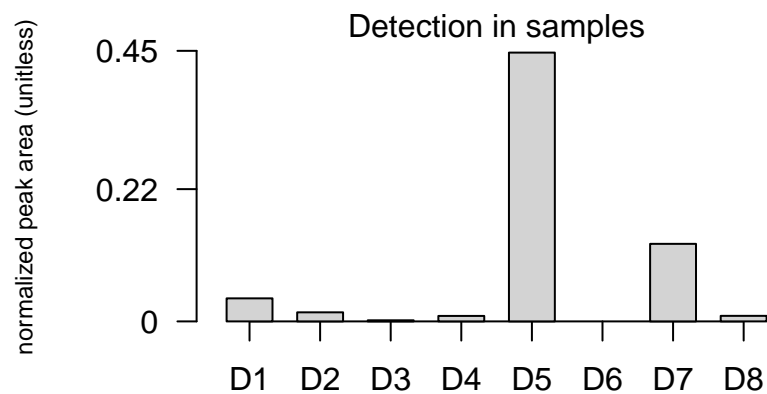
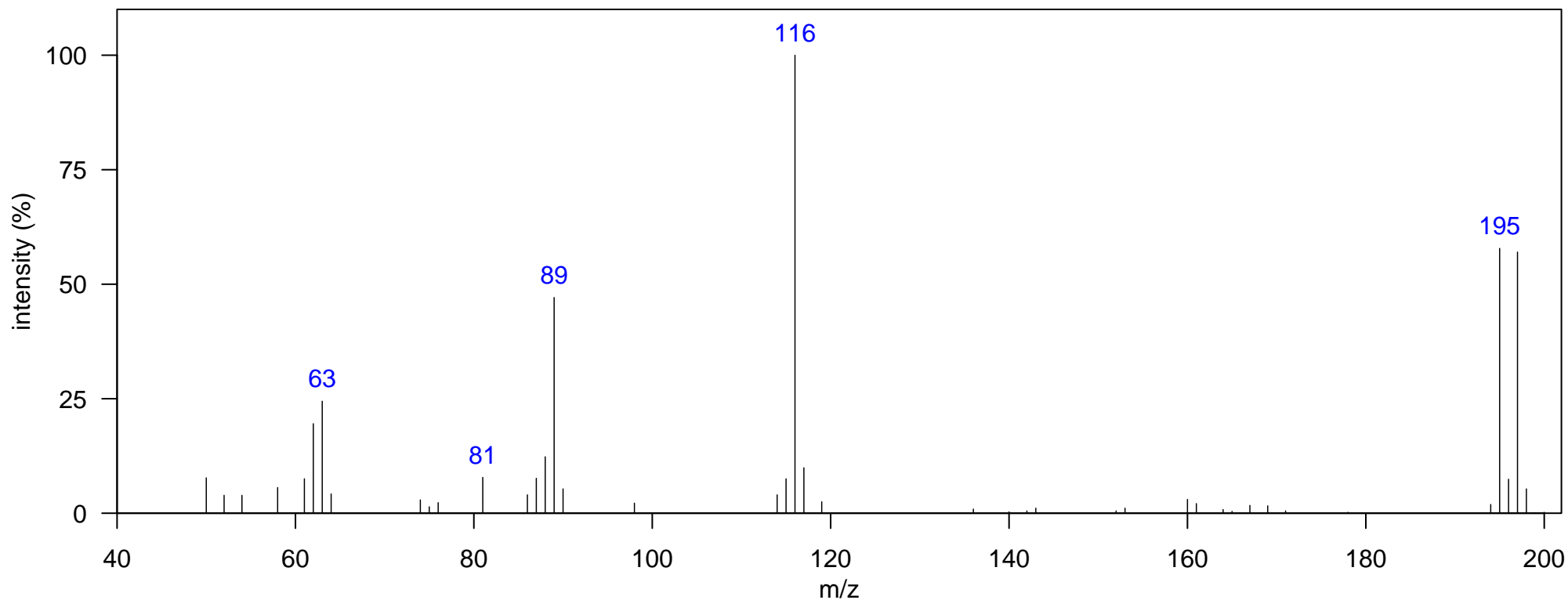
Name: 5-bromoindole

Class: Brominated indole

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1051.24, 1.346  
Quantitative Ion m/z: 195  
Atlantic Lib: bromoindole (isomer)

Elemental Formula: C<sub>8</sub>H<sub>6</sub>BrN  
Source: natural  
Identification: Authentic MS RT



m/z [Fragment]
89 [M-Br-CN <sub>H</sub> ] <sup>+</sup>
116 [M-Br] <sup>+</sup>
195 M <sup>+</sup>

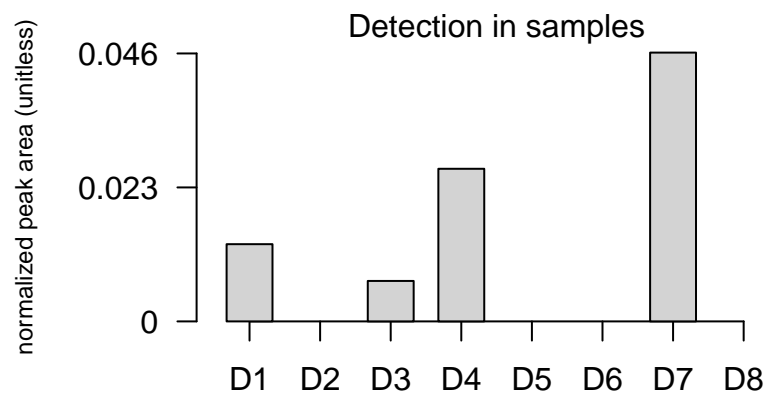
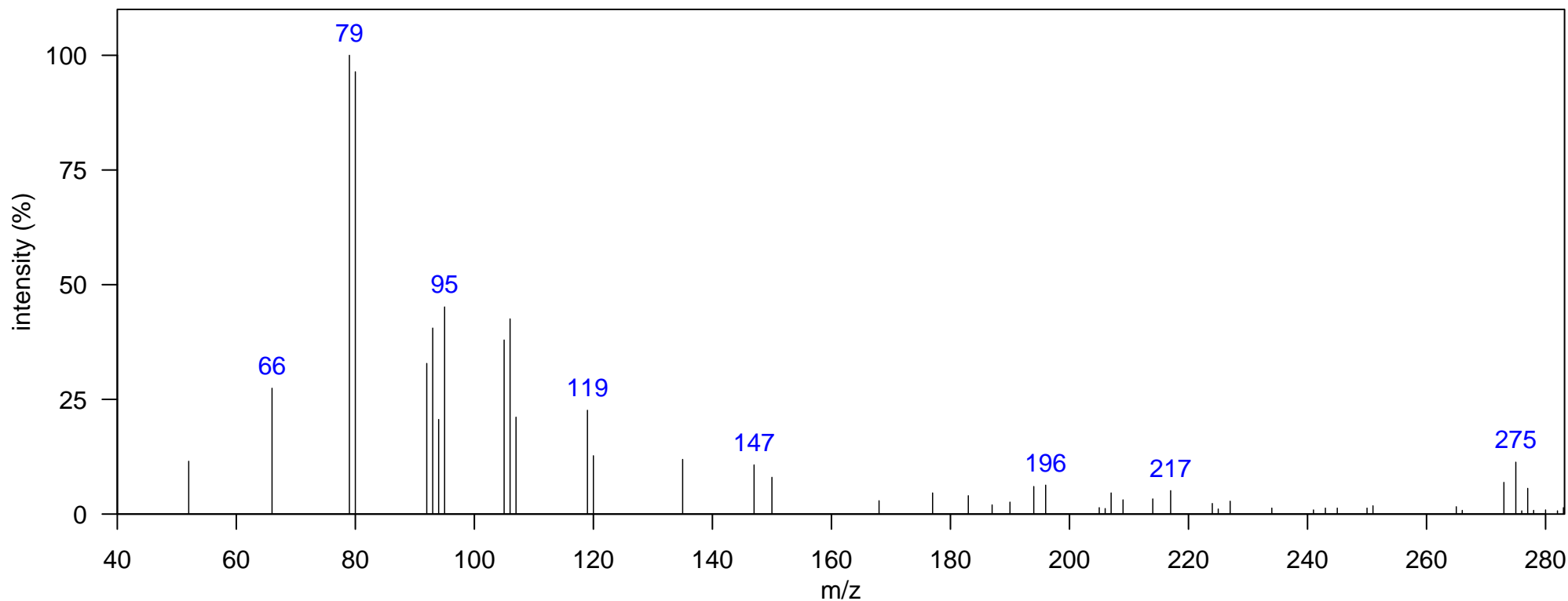
Name: 4,6-dibromoindole

Class: Brominated indole

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

1D RT, 2D RT (s): 1264.62, 1.505  
Quantitative Ion m/z: 275  
Atlantic Lib: dibromoindole

Elemental Formula: C<sub>8</sub>H<sub>5</sub>Br<sub>2</sub>N  
Source: natural  
Identification: Authentic MS RT



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

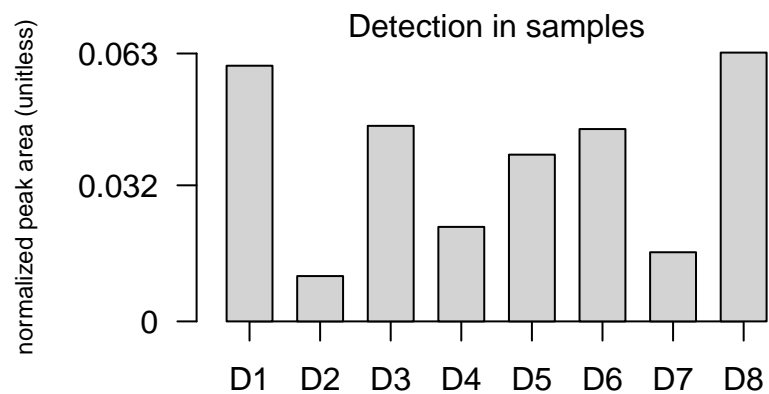
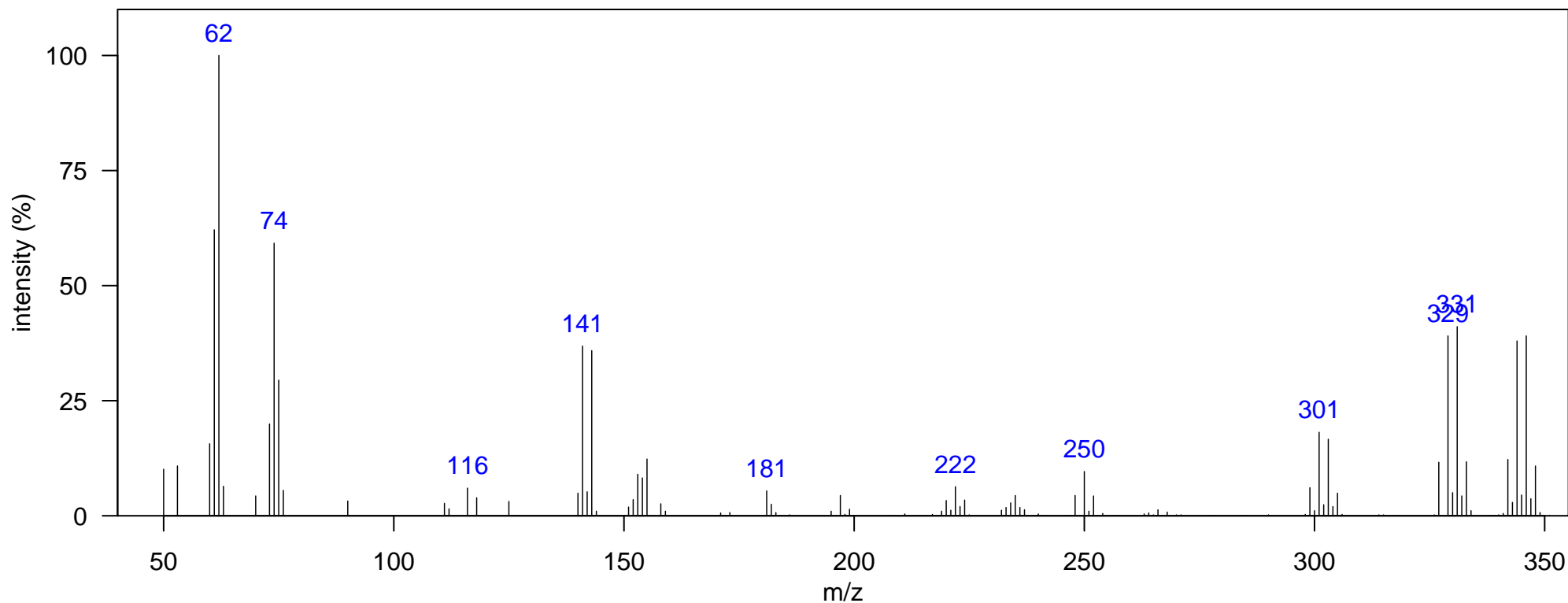
Name: 2,4,6-tribromo anisole

Class: Brominated anisole

Sample: SoCal dolphin blubber D3,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1040.75, 1.148  
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,

1D RT, 2D RT (s): 1544.46, 1.016

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

Ecotype: coastal

Quantitative Ion m/z: 274

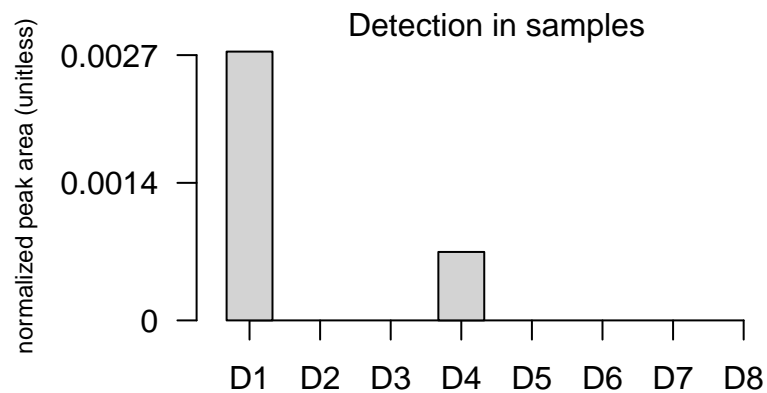
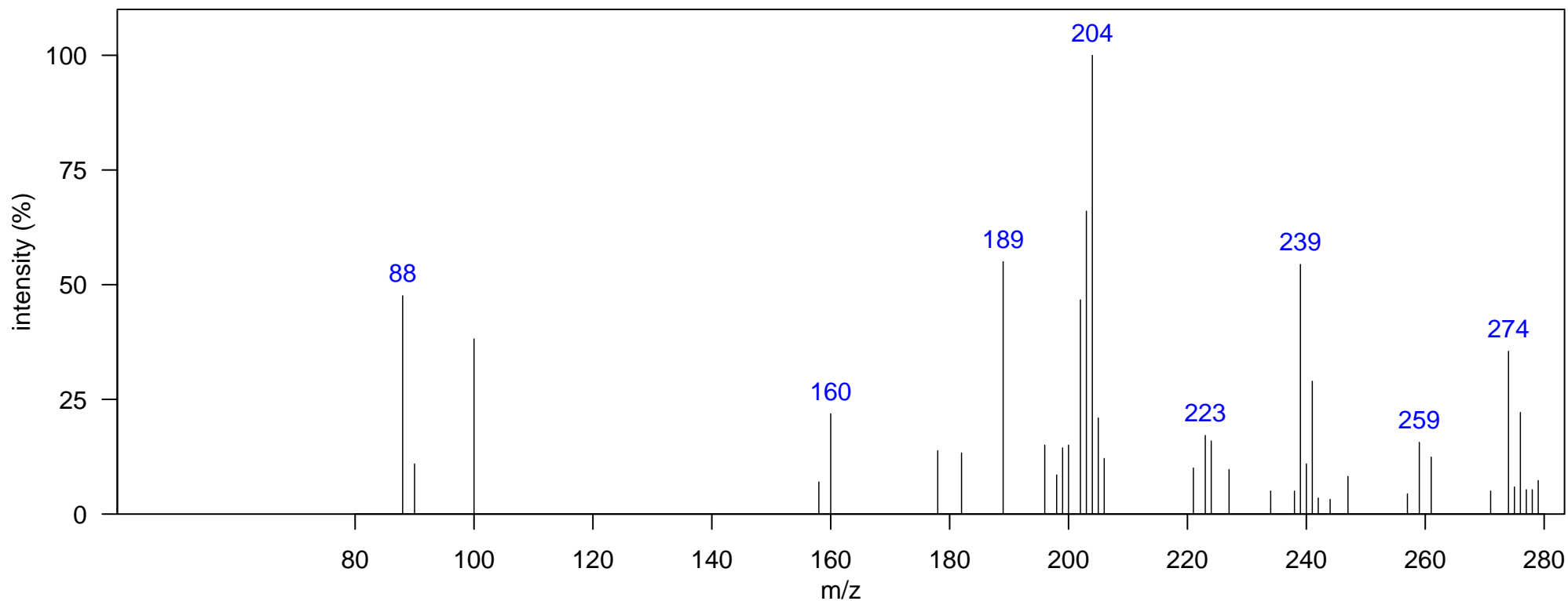
Source: mixed

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification: Authentic MS

Comment: Not 9,10 dichloromethylantrance but likely an isomer



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

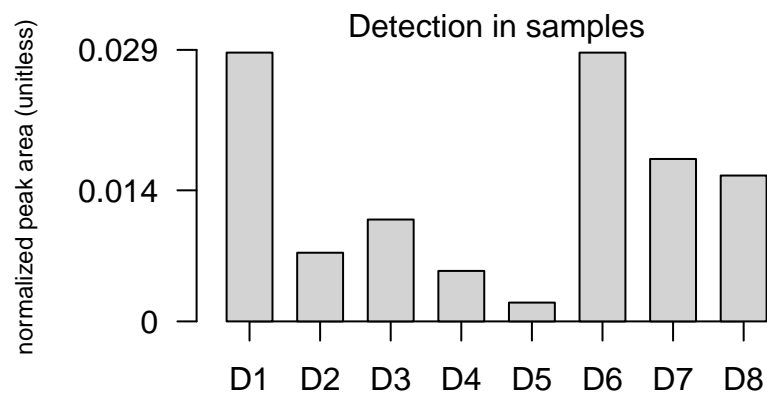
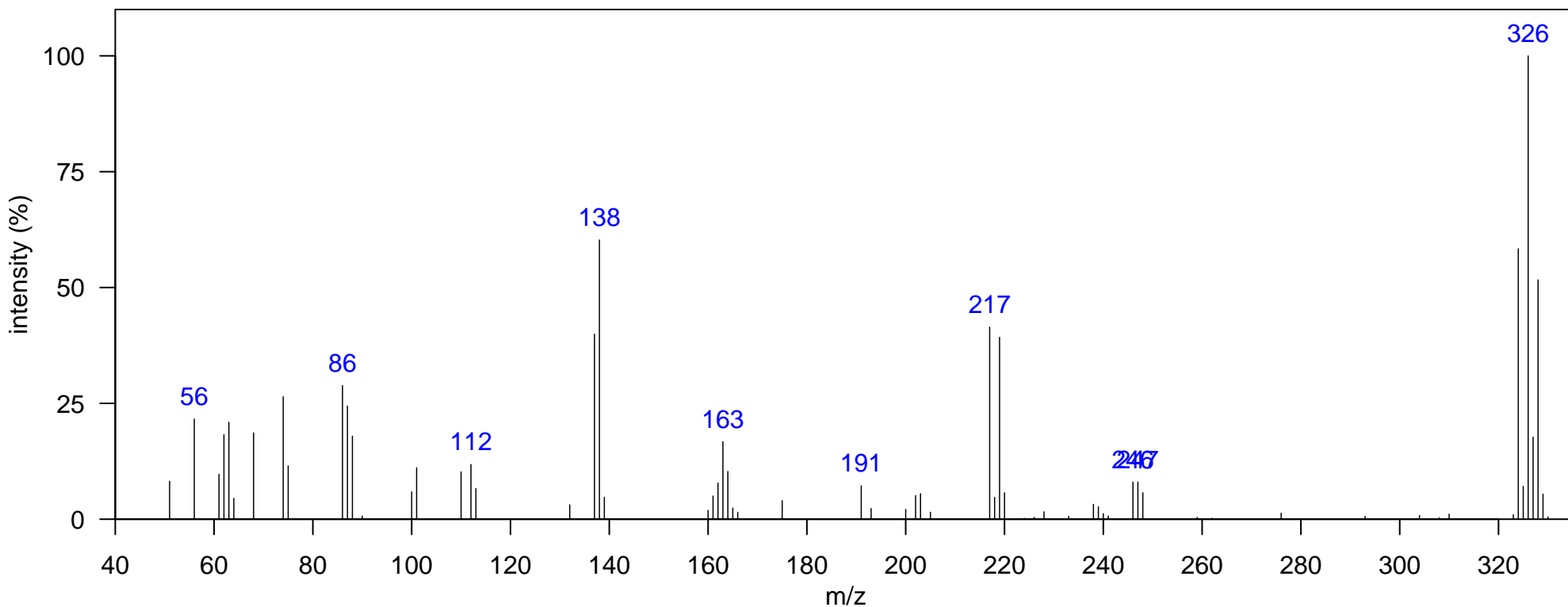


Class: PBDF

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

Source: mixed

Identification: Authentic MS



m/z [Fragment]

Class: PBDf

1D RT, 2D RT (s): 1642.4, 1.102

Ecotype: coastal

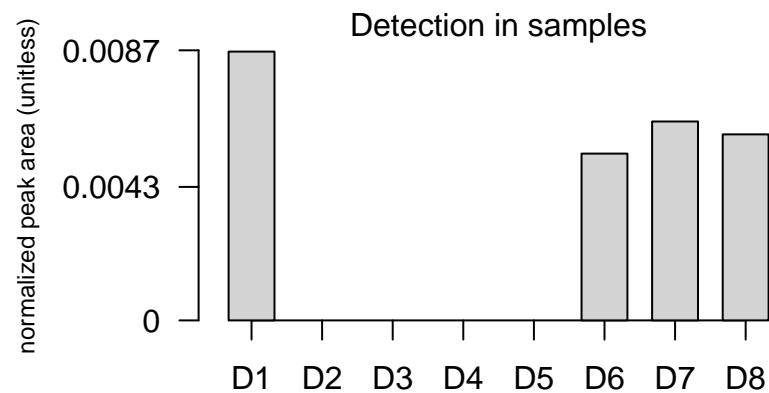
Quantitative Ion m/z: 328

Source: mixed

Atlantic Lib:

Identification: Authentic MS

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



m/z [Fragment]

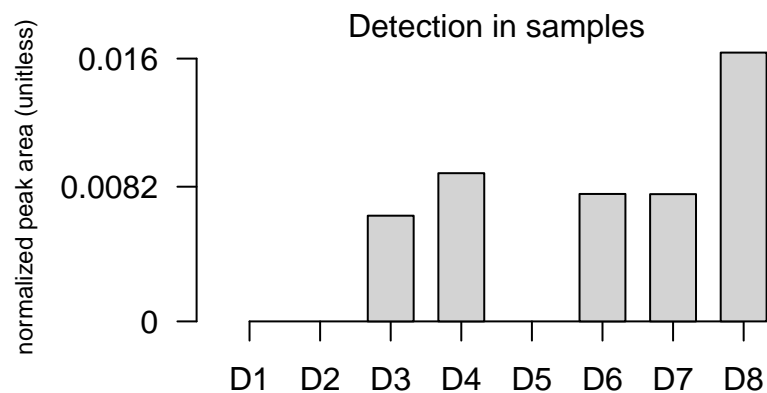
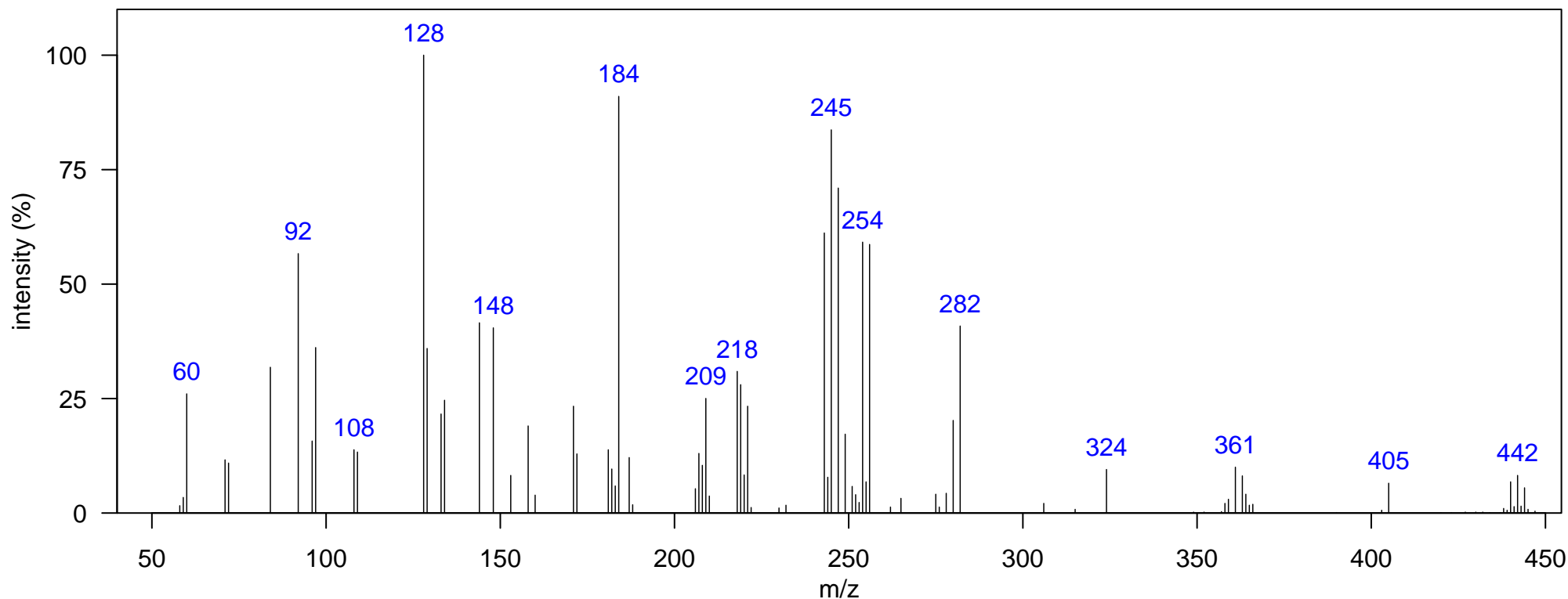
Name: PBCDE Br3Cl 1

Class: B/CDE

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

1D RT, 2D RT (s): 1359.07, 1.32  
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>

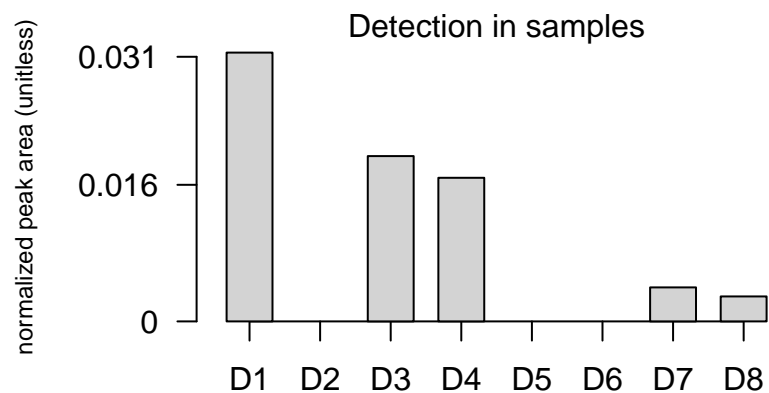
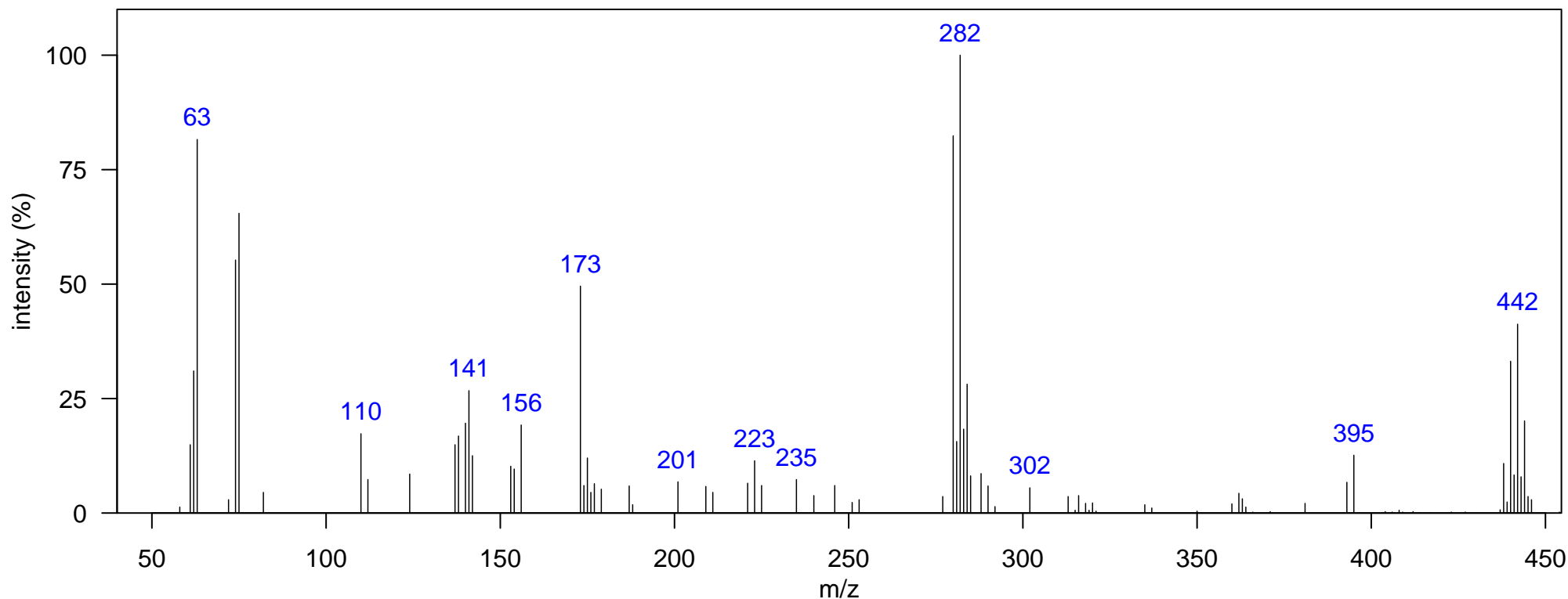
Name: PBCDE Br3Cl 2

Class: B/CDE

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

1D RT, 2D RT (s): 1478, 1.459  
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

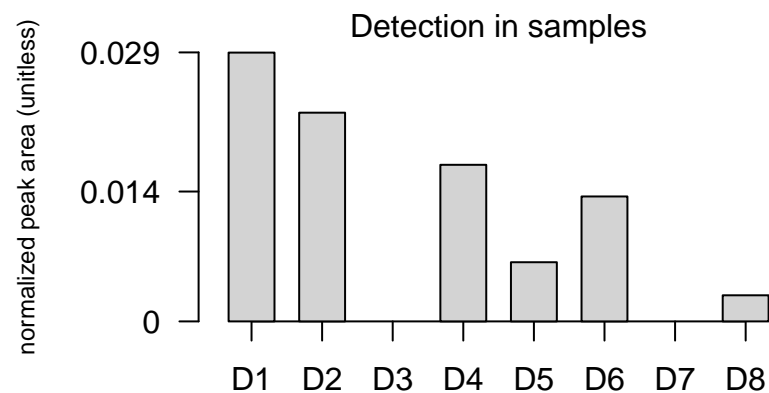
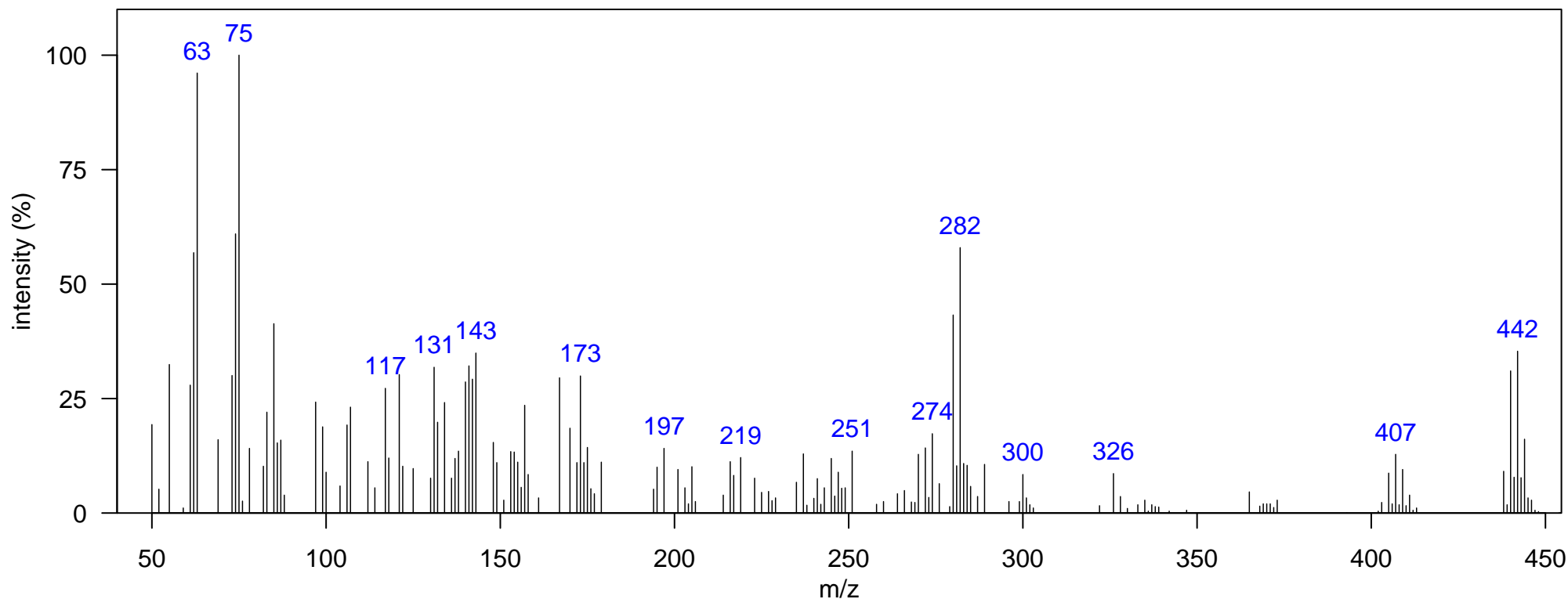


m/z [Fragment]
280 [M-Br <sub>2</sub> ] <sup>+</sup>
438 M <sup>+</sup>

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

1D RT, 2D RT (s): 1484.99, 1.465  
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]
280 [M-Br <sub>2</sub> ] <sup>+</sup>
438 M <sup>+</sup>

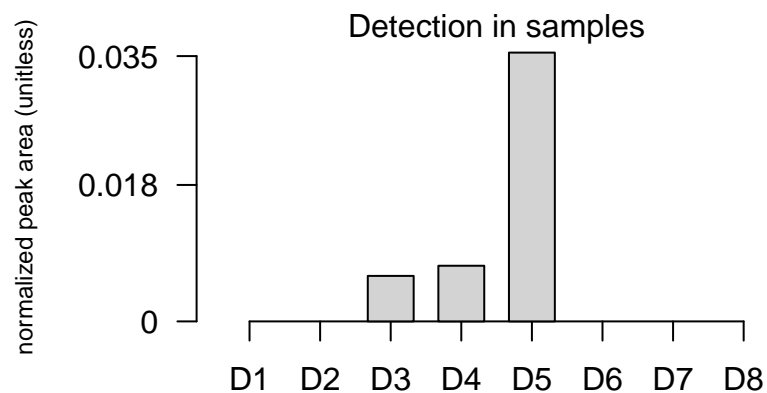
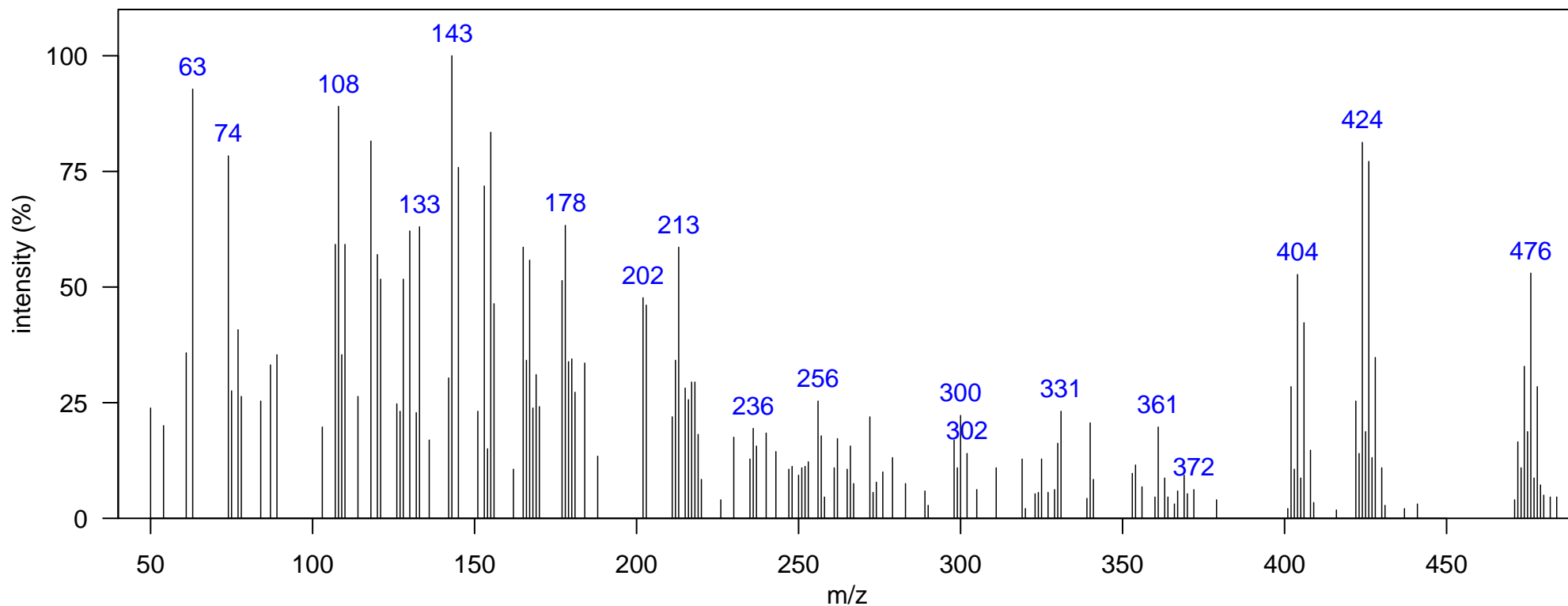
Name: MeOCDE 8Cl 1

Class: MeO-CDE

Sample: SoCal dolphin blubber D3,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1705.37, 1.888  
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>

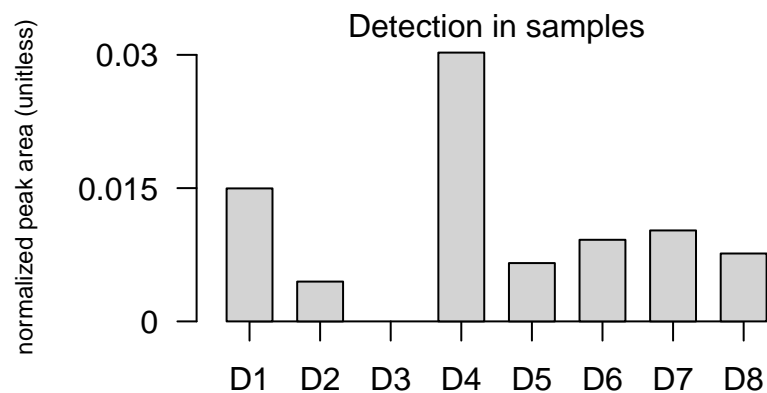
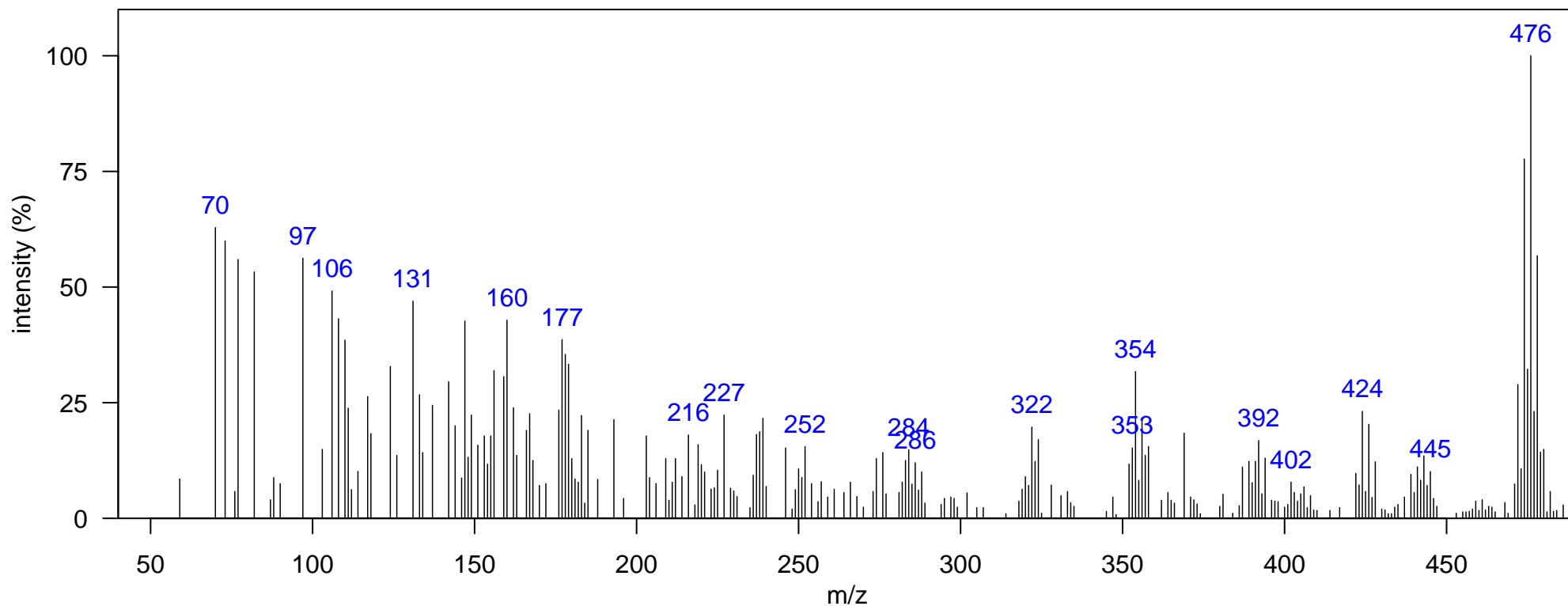
Name: MeOCDE 8Cl 2

Class: MeO-CDE

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

1D RT, 2D RT (s): 1820.8, 2.264  
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>

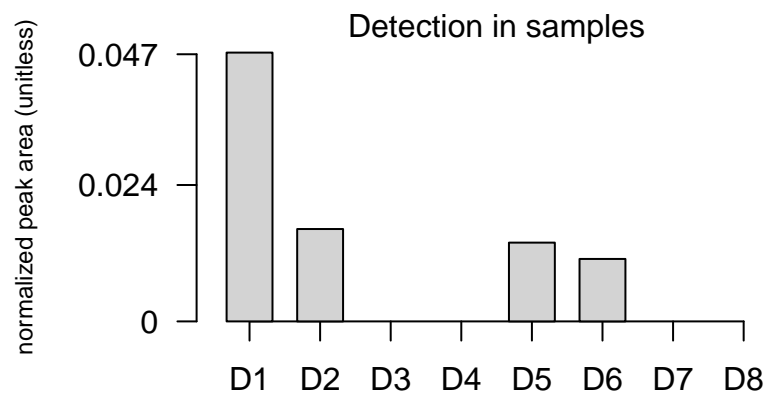
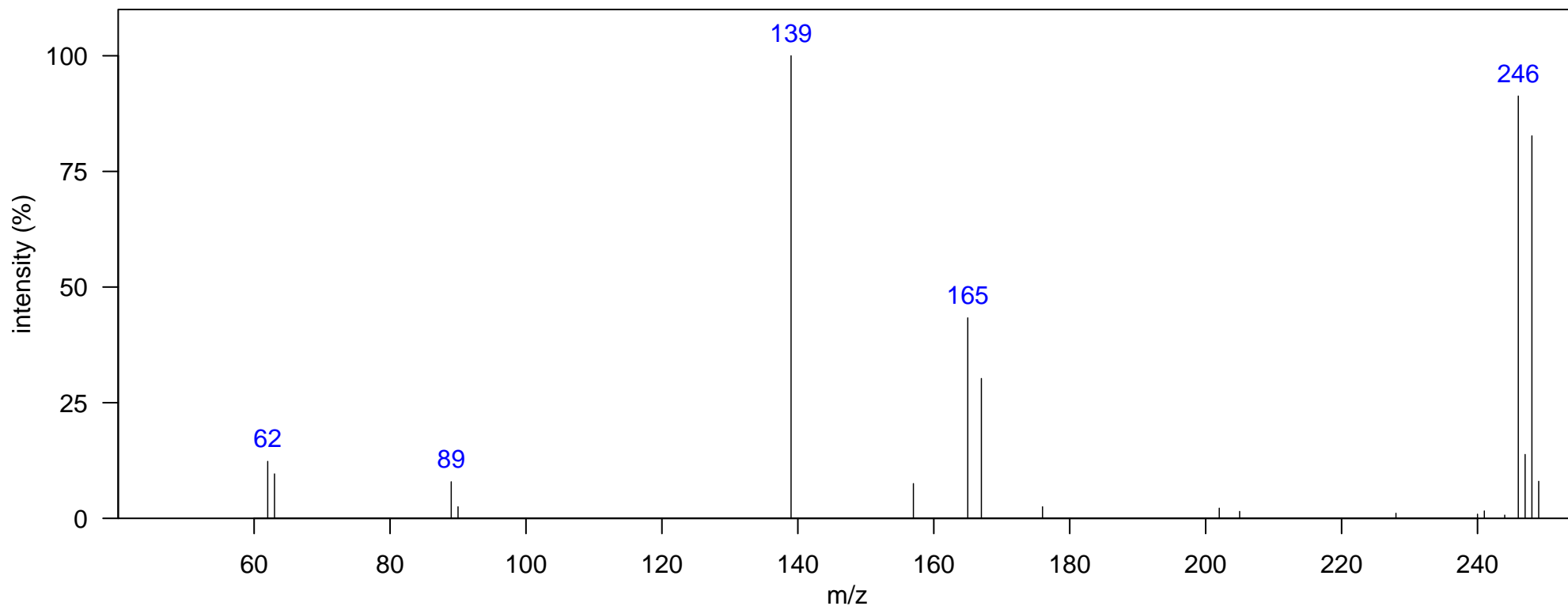
Name: bromomethyl biphenyl

Class: Bromomethylbiphenyl

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1537.46, 0.898  
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-H <sub>2</sub> Br] <sup>+</sup>
167 [M-Br] <sup>+</sup>
246 M <sup>+</sup>



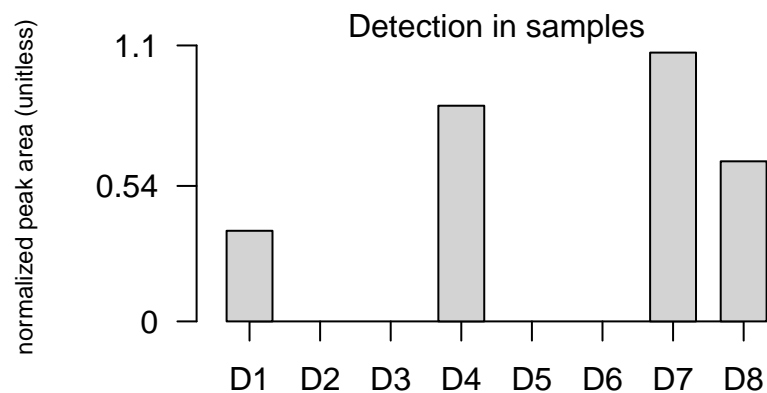
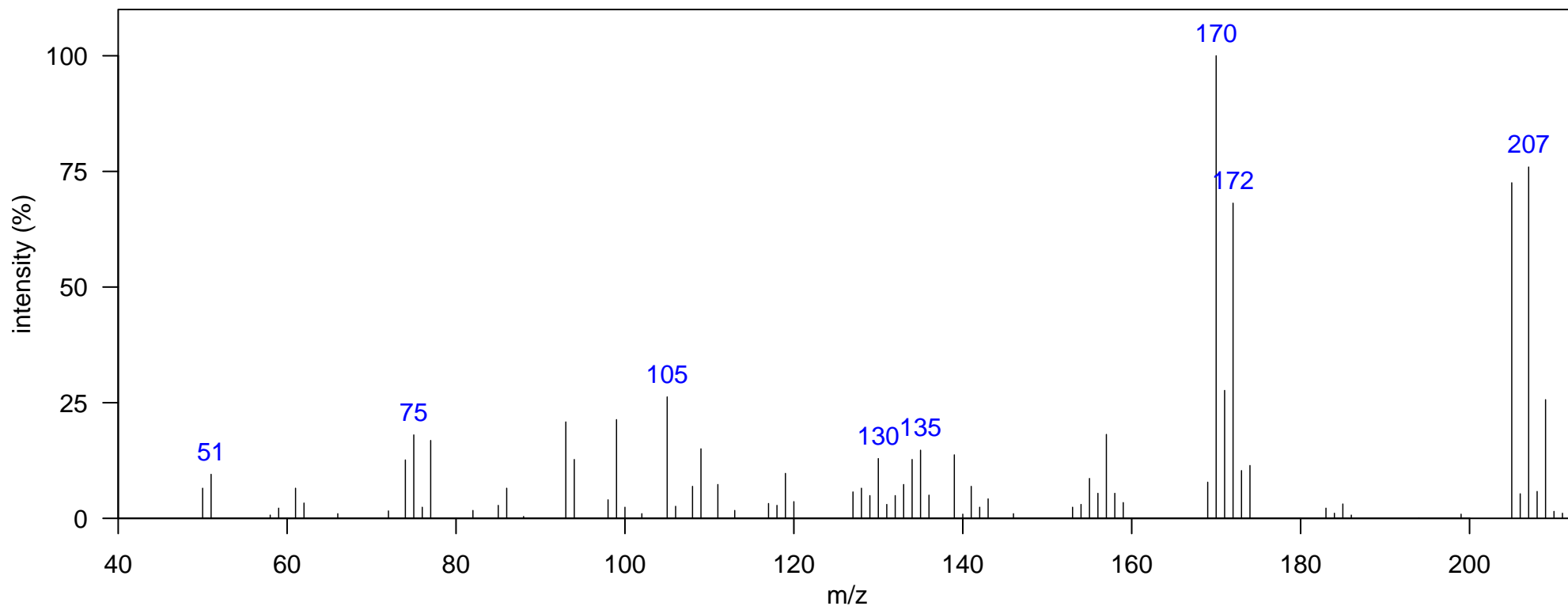
Name: benzonitrile 3Cl

Class: Trichloro benzonitrile

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

1D RT, 2D RT (s): 1233.14, 1.175  
Quantitative Ion m/z: 207  
Atlantic Lib:

Elemental Formula: C<sub>7</sub>H<sub>2</sub>Cl<sub>3</sub>N  
Source: unknown  
Identification: Reference Database MS



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

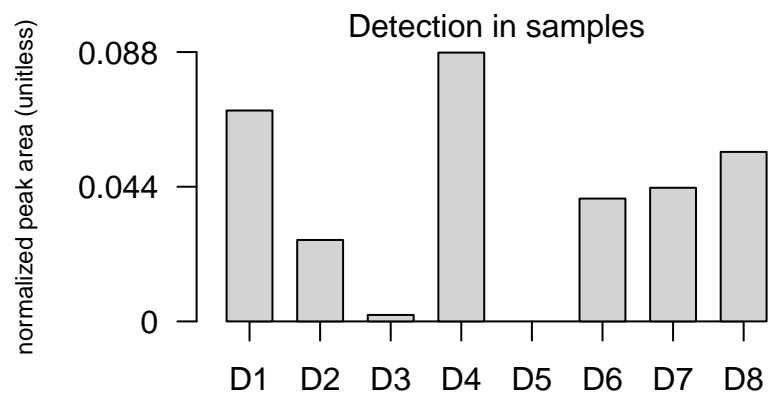
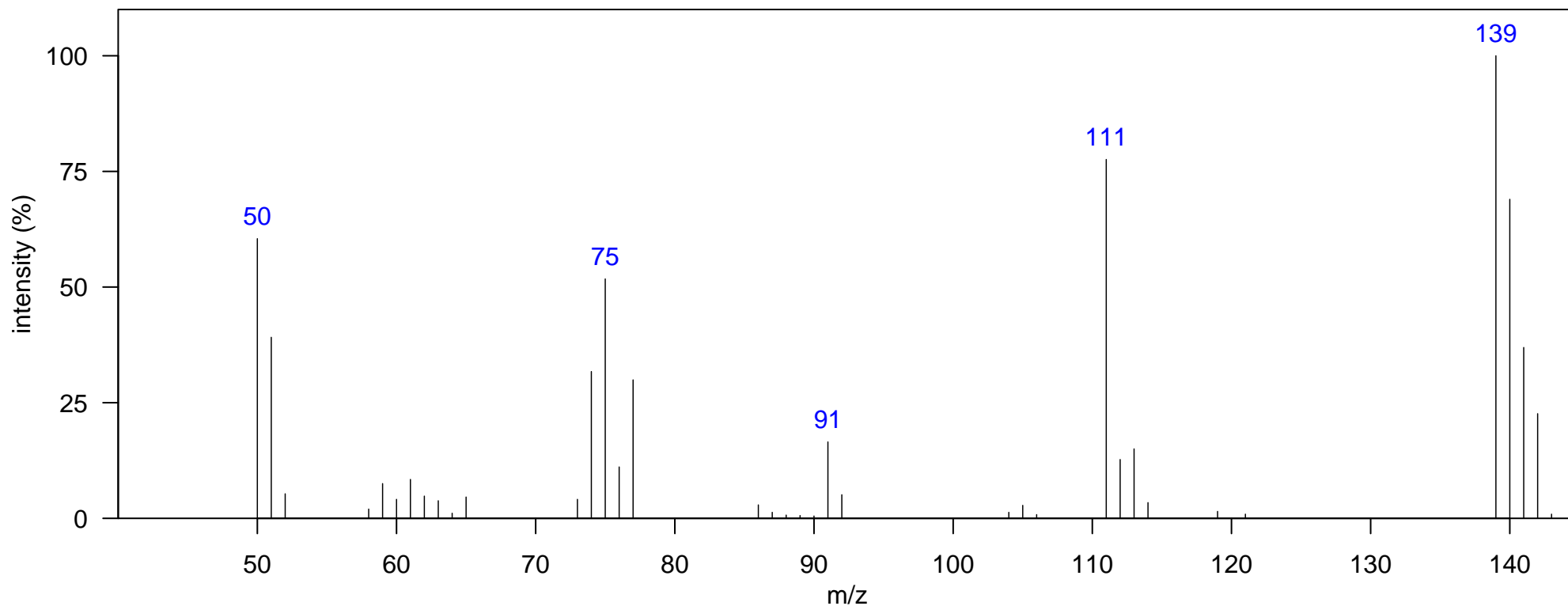
Name: chlorobenzaldehyde

Class: Chlorobenzaldehyde

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

1D RT, 2D RT (s): 652.47, 1.043  
Quantitative Ion m/z: 139  
Atlantic Lib:

Elemental Formula: C<sub>7</sub>H<sub>5</sub>ClO  
Source: unknown  
Identification: Reference Database MS



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

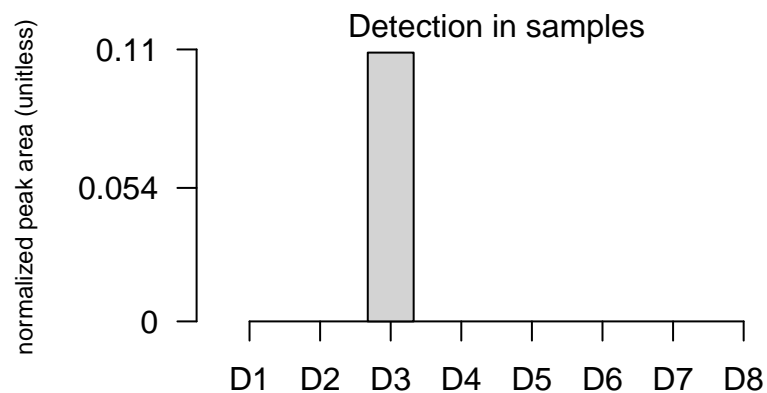
Class: Unknown-1

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

Source: unknown

Identification:

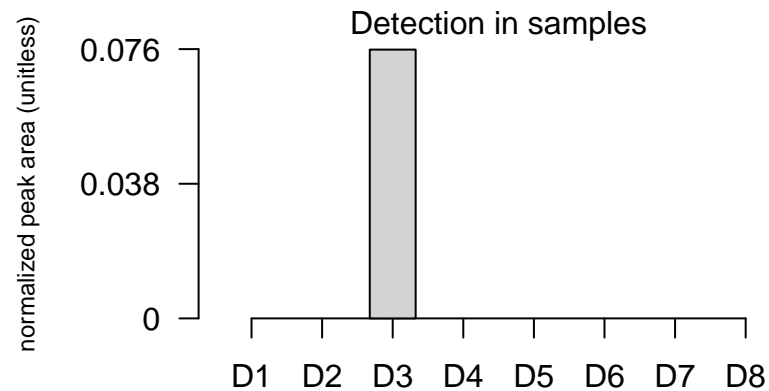
Sample: SoCal dolphin blubber D3,



m/z [Fragment]

Class: Unknown-1

Elemental Formula: C10H13Cl3  
Source: unknown  
Identification:



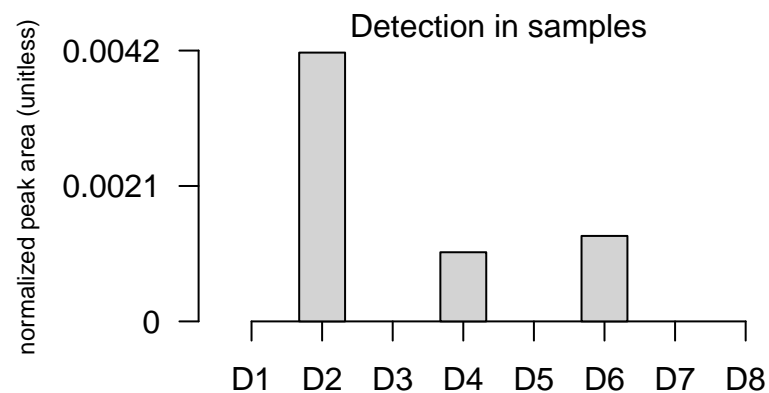
m/z [Fragment]

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

Source: unknown

Identification:

Sample: SoCal dolphin blubber D4,



m/z [Fragment]

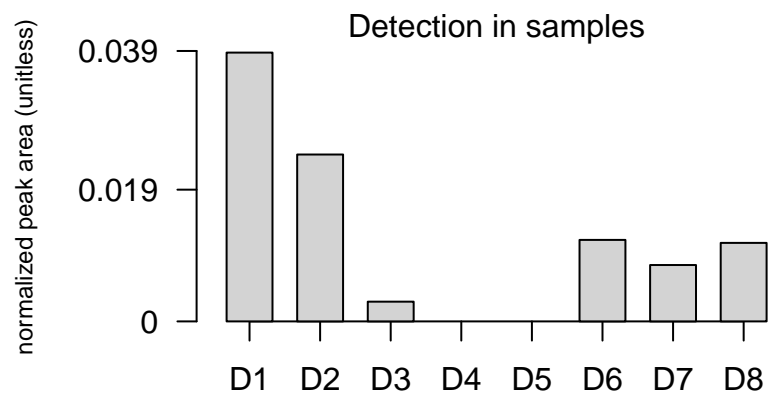
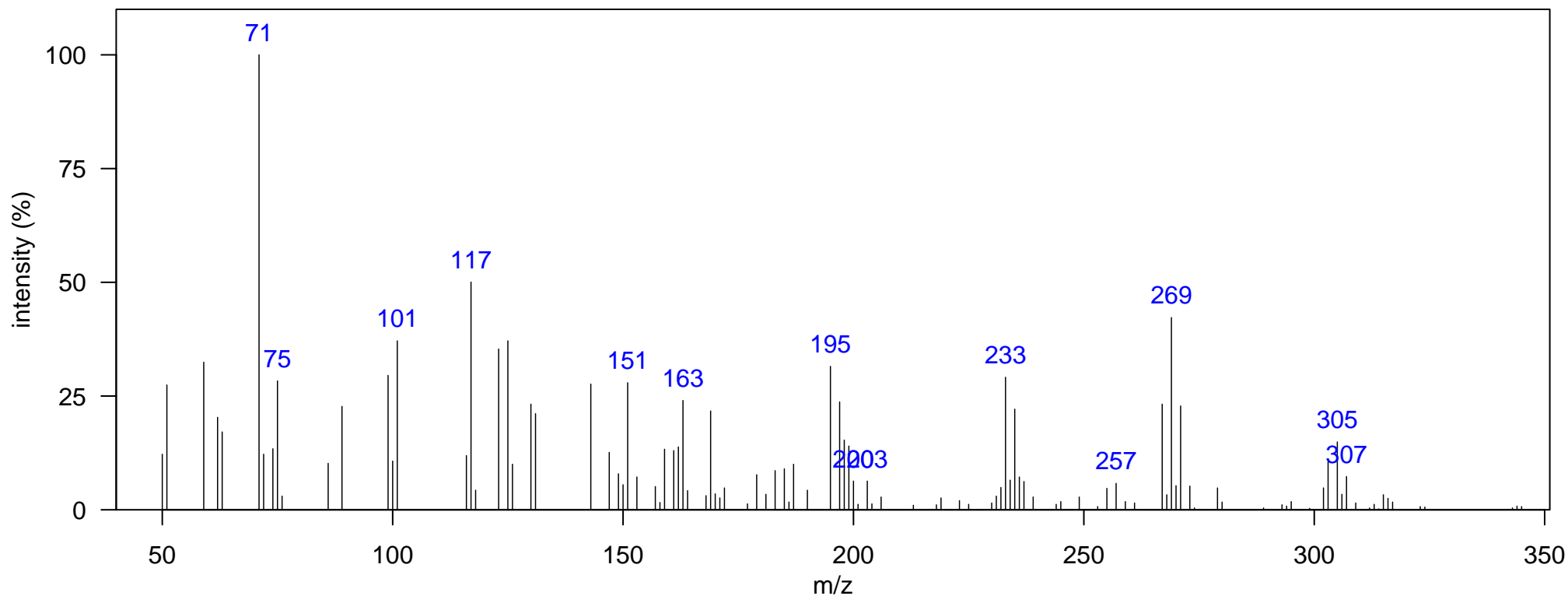
Class: Unknown-1

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

Source: unknown

Identification:

Sample: SoCal dolphin blubber D2,



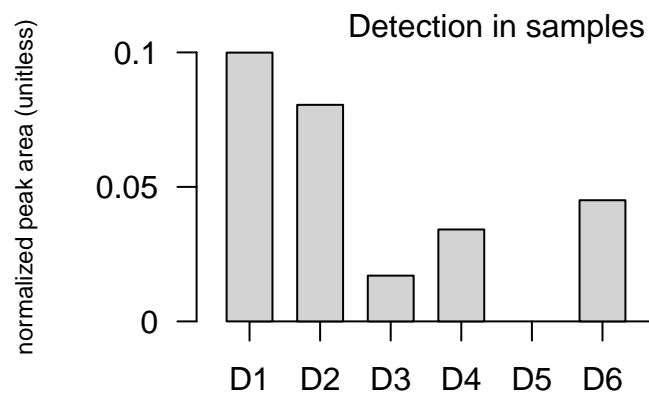
m/z [Fragment]

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

Source: unknown

Identification:

Sample: SoCal dolphin blubber D1,



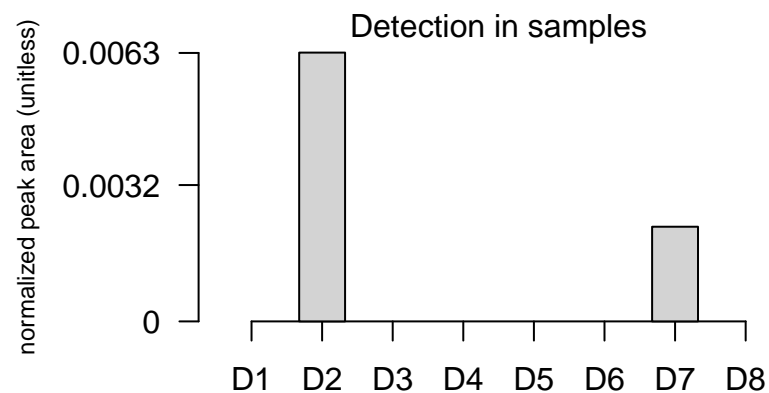
m/z [Fragment]

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

Source: unknown

Identification:

Sample: SoCal dolphin blubber D2,



m/z [Fragment]



Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1306.6, 1.327

Elemental Formula:

Ecotype: coastal

Quantitative Ion m/z: 139

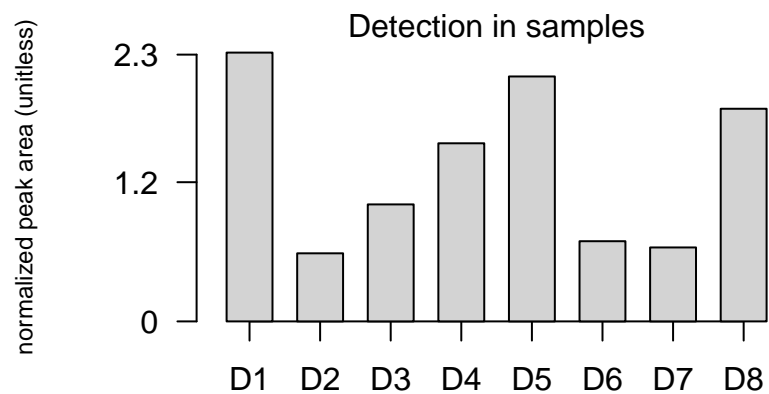
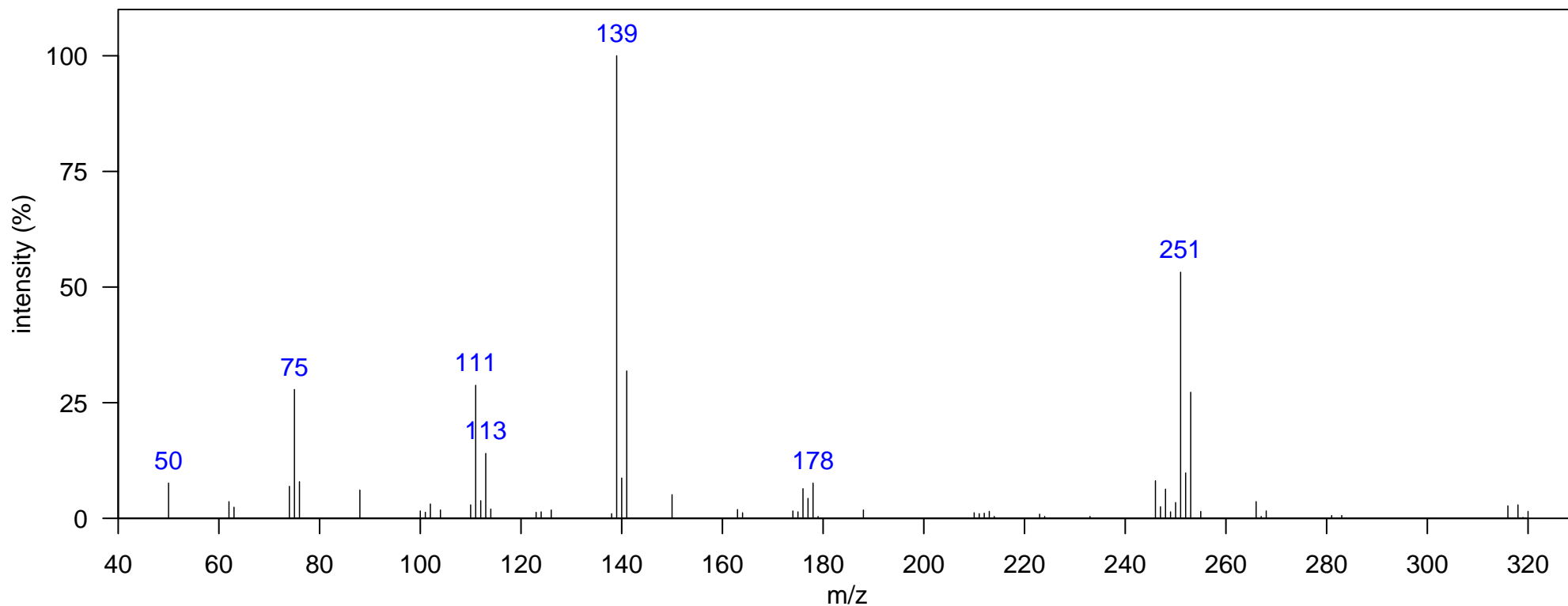
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification:

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

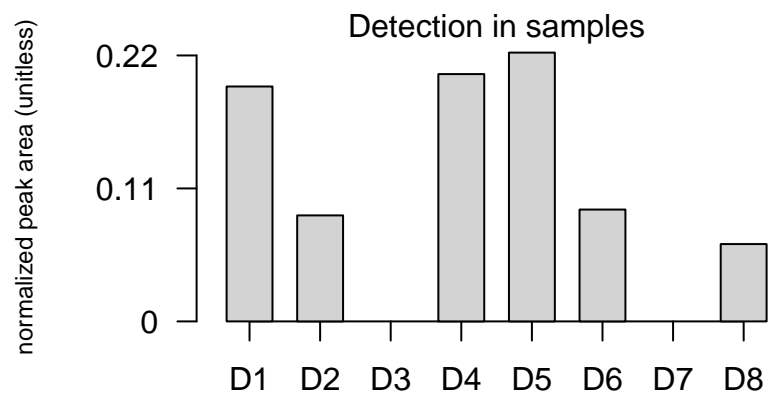
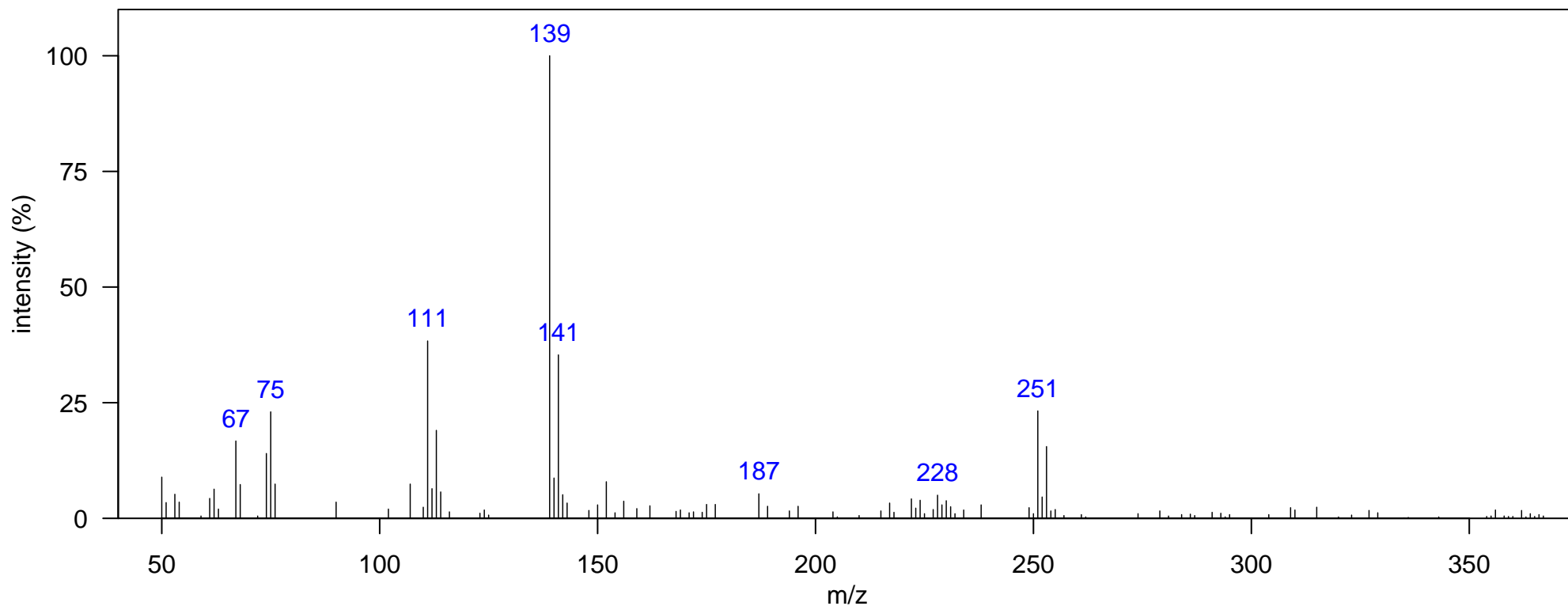


m/z [Fragment]

Class: Unknown-2

1D RT, 2D RT (s): 1603.93, 1.894  
Quantitative Ion m/z: 139  
Atlantic Lib:

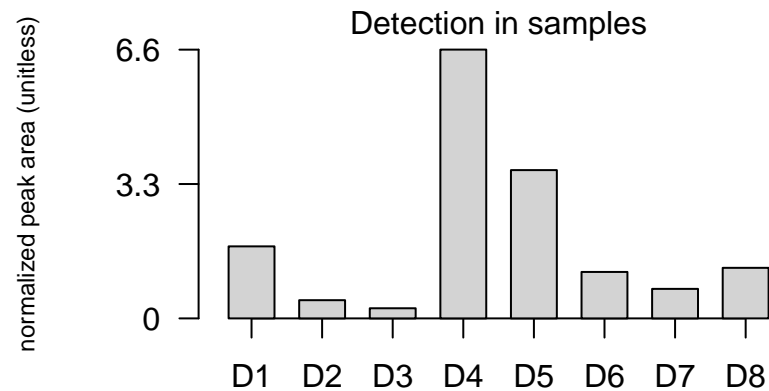
Elemental Formula: C<sub>19</sub>H<sub>13</sub>Cl<sub>3</sub>O  
Source: unknown  
Identification: Authentic MS



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

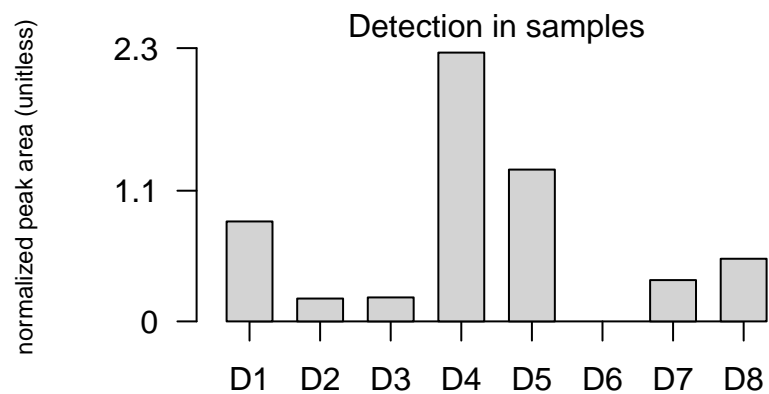
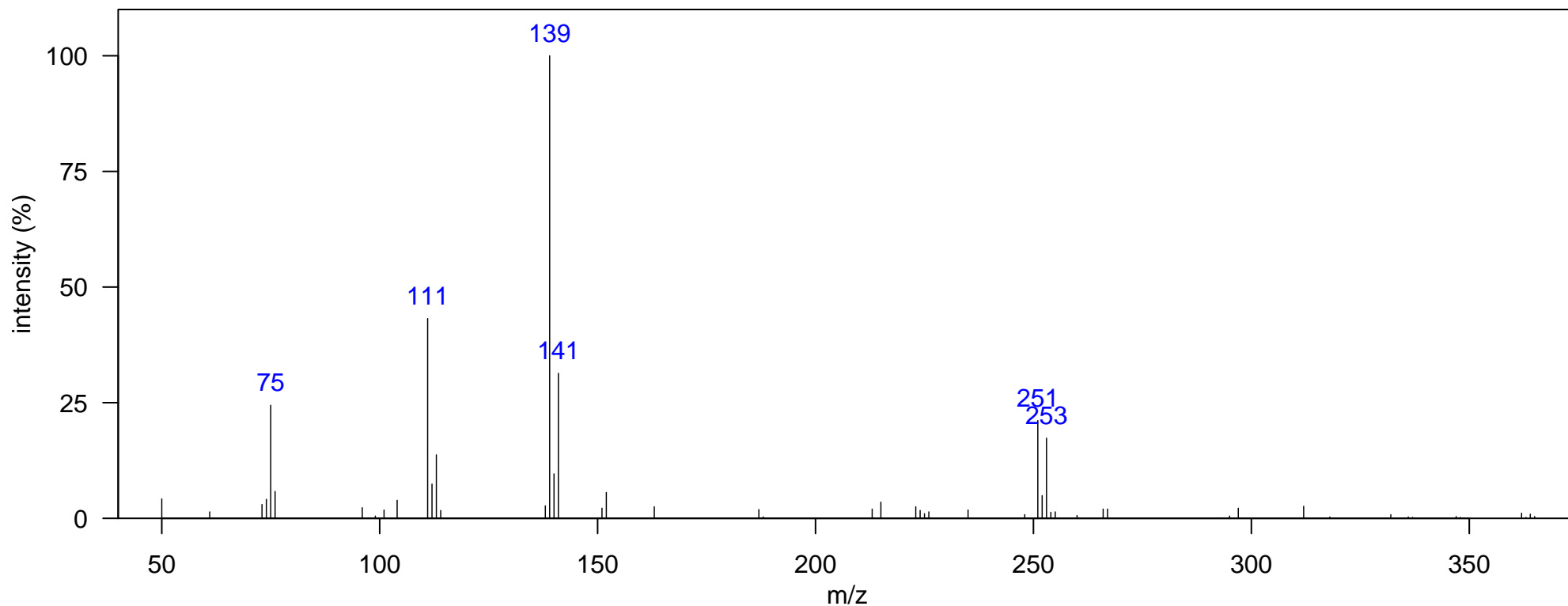


m/z [Fragment]
----------------

Class: Unknown-2

1D RT, 2D RT (s): 1652.9, 2.039  
Quantitative Ion m/z: 139  
Atlantic Lib:

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



m/z [Fragment]

Name: unknown-2-5

Class: Unknown-2

Sample: SoCal dolphin blubber D4,

1D RT, 2D RT (s): 1701.87, 1.874

Elemental Formula:

Ecotype: offshore

Quantitative Ion m/z: 139

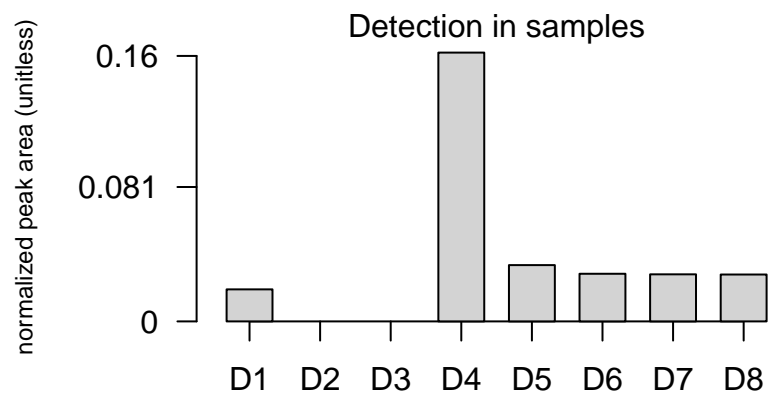
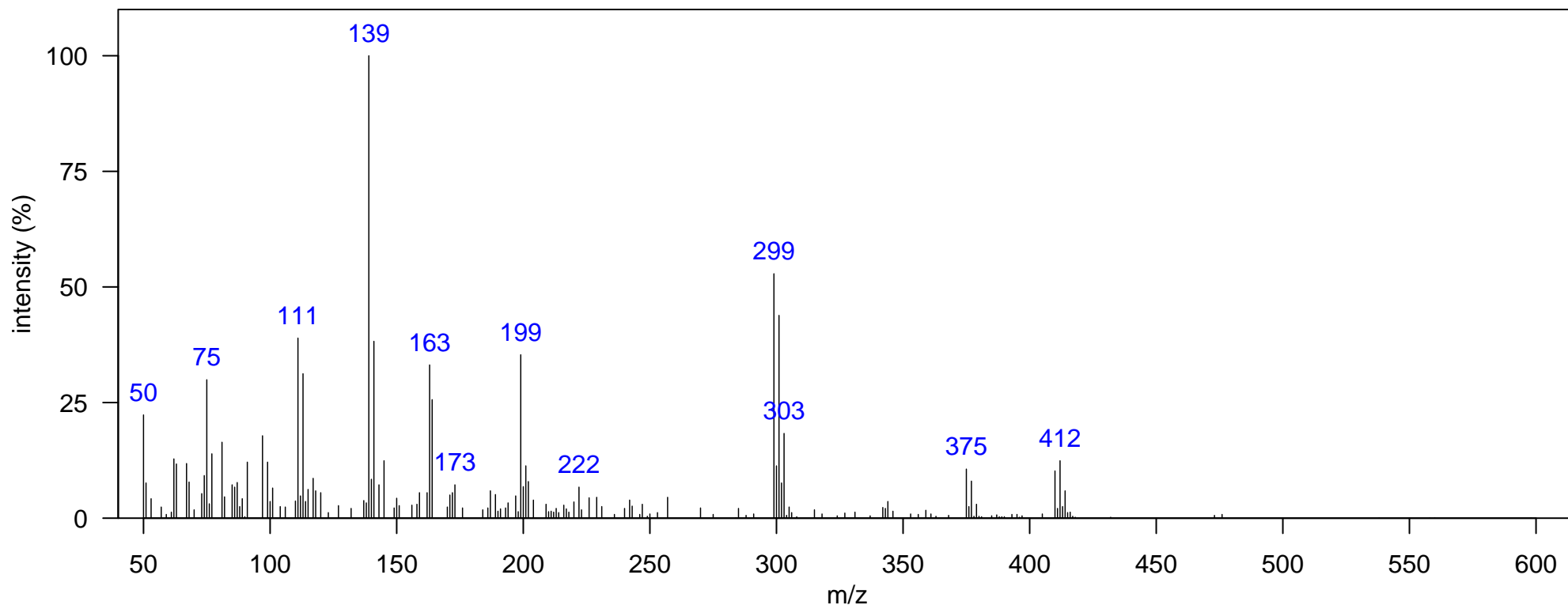
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification:

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



m/z [Fragment]

Name: unknown-2-6

Class: Unknown-2

Sample: SoCal dolphin blubber D6,

1D RT, 2D RT (s): 1747.34, 0.904

Elemental Formula:

Ecotype: offshore

Quantitative Ion m/z: 139

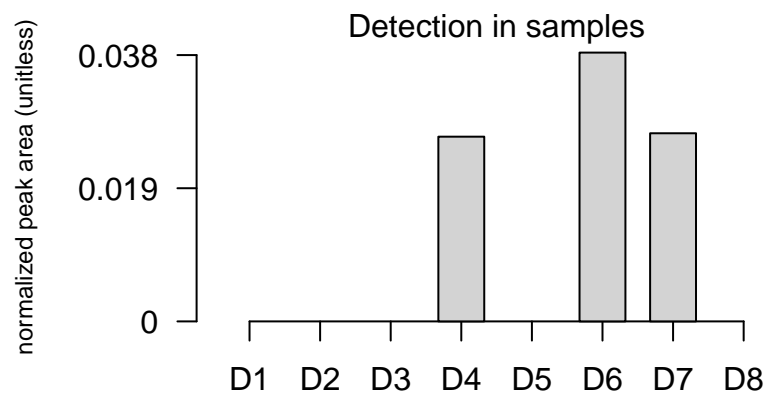
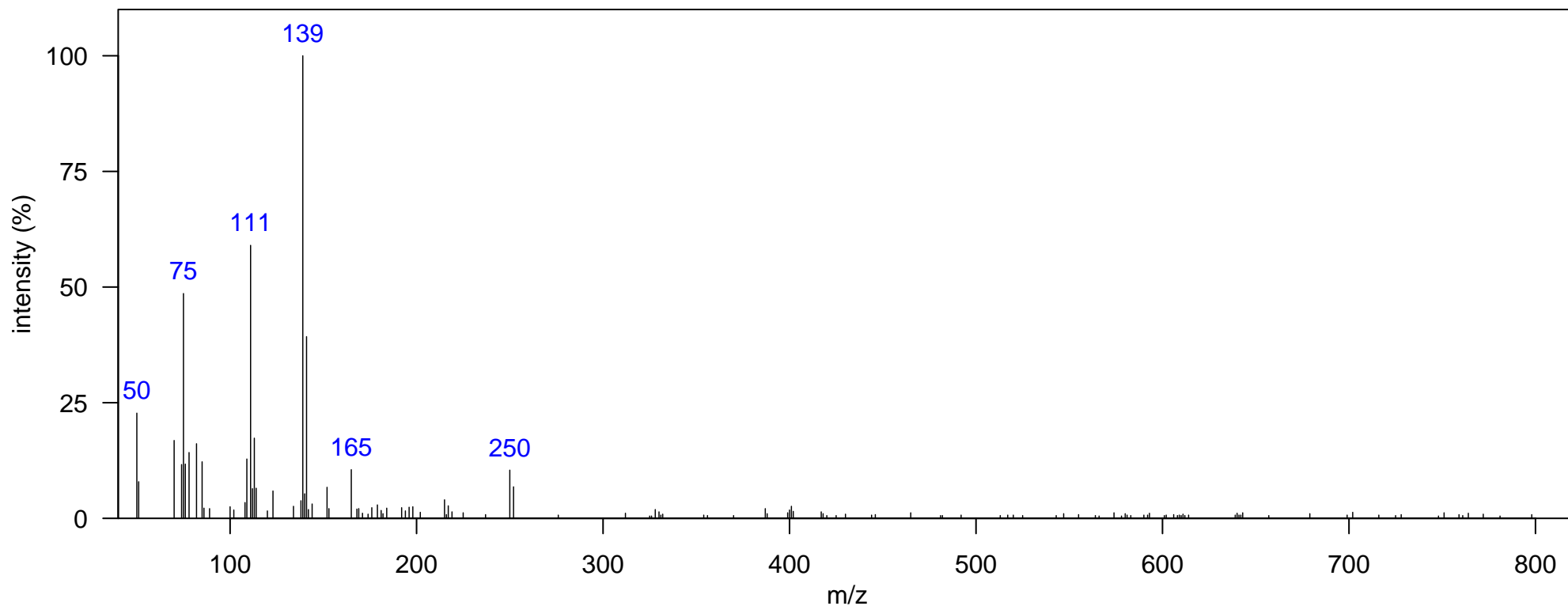
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification:

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



m/z [Fragment]

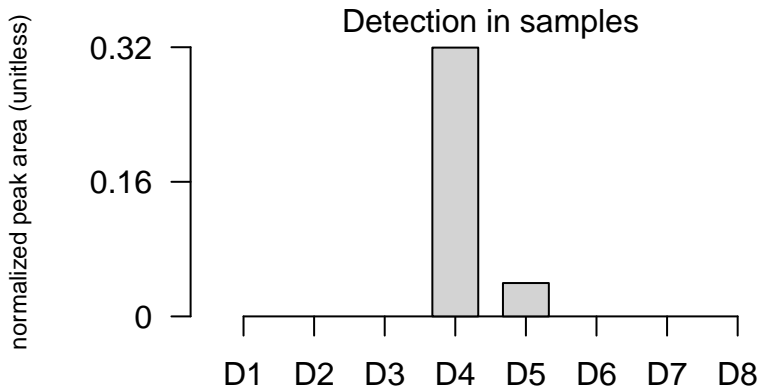
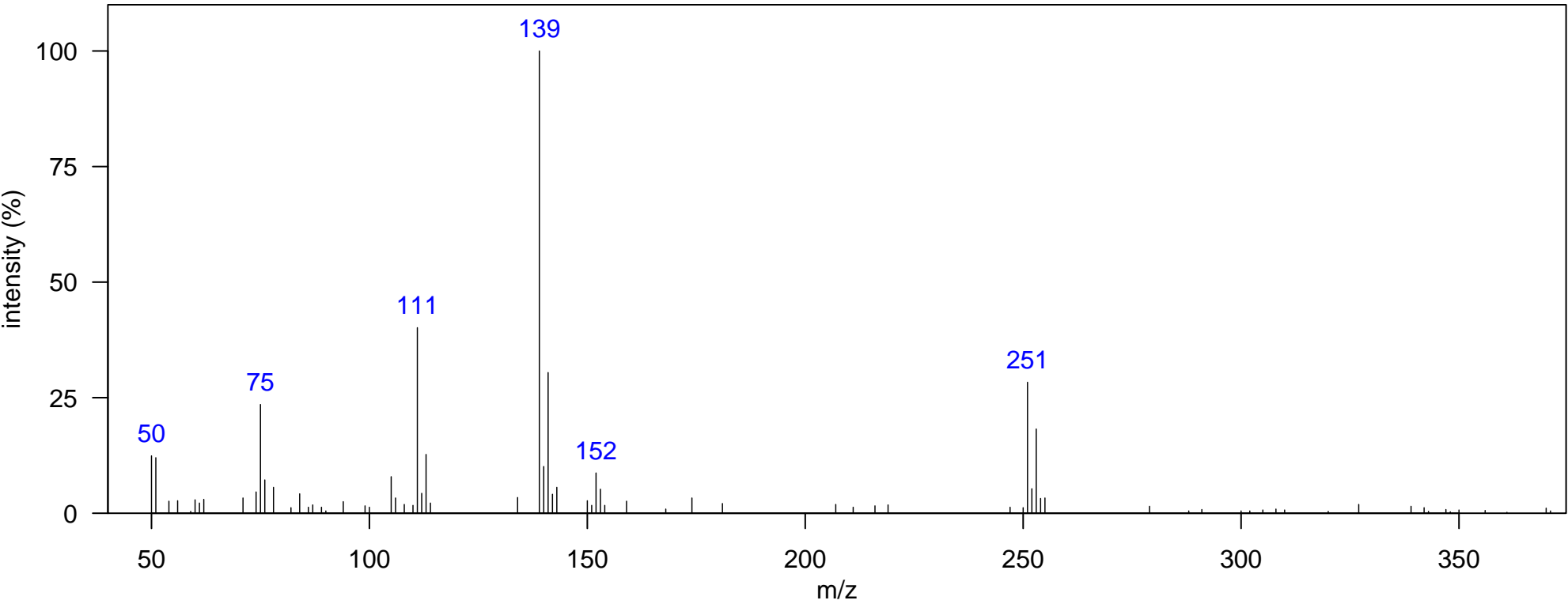
Name: unknown-2-7

Class: Unknown-2

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

1D RT, 2D RT (s): 1736.85, 2.099  
Quantitative Ion m/z: 139  
Atlantic Lib:

Elemental Formula: C19H13Cl3O  
Source: unknown  
Identification: Authentic MS



m/z [Fragment]

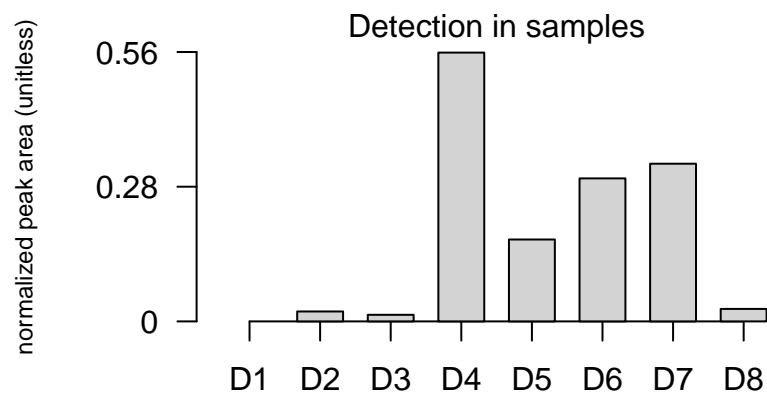
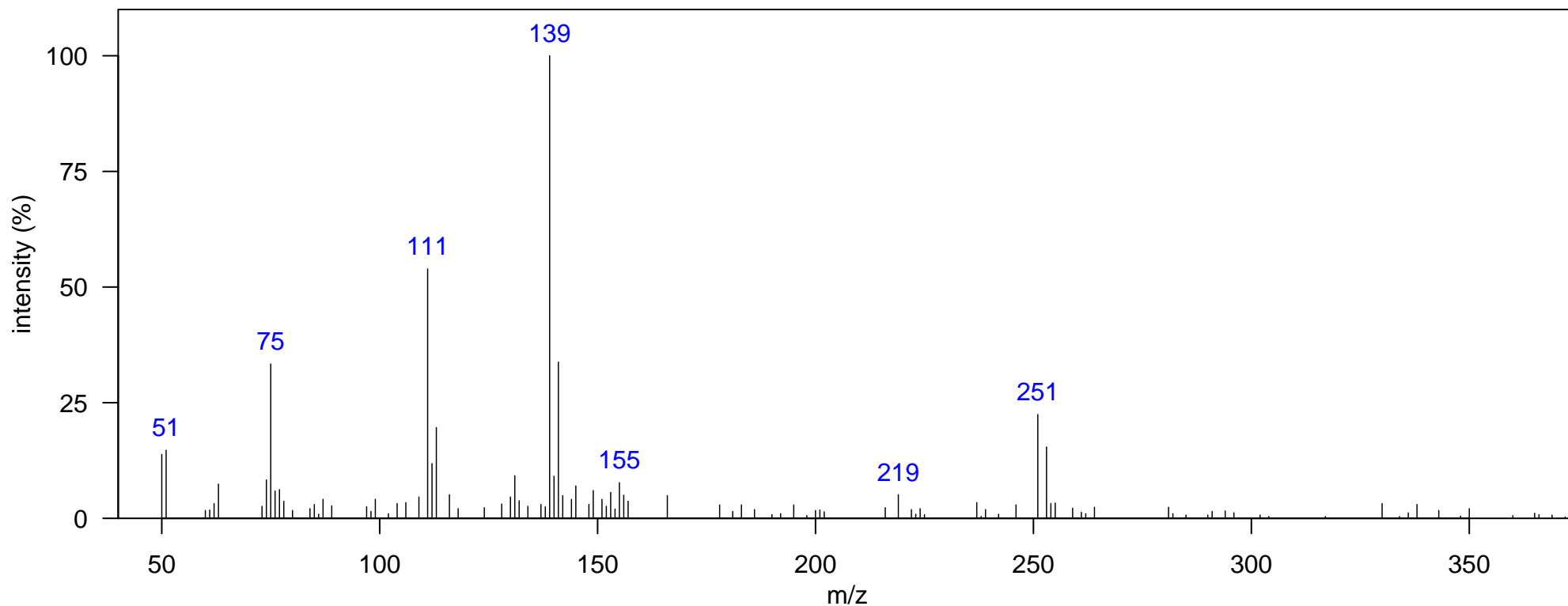
Name: unknown-2-8

Class: Unknown-2

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: Hypothesized TCPMe.

1D RT, 2D RT (s): 1747.34, 1.987  
Quantitative Ion m/z: 139  
Atlantic Lib:

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



m/z [Fragment]

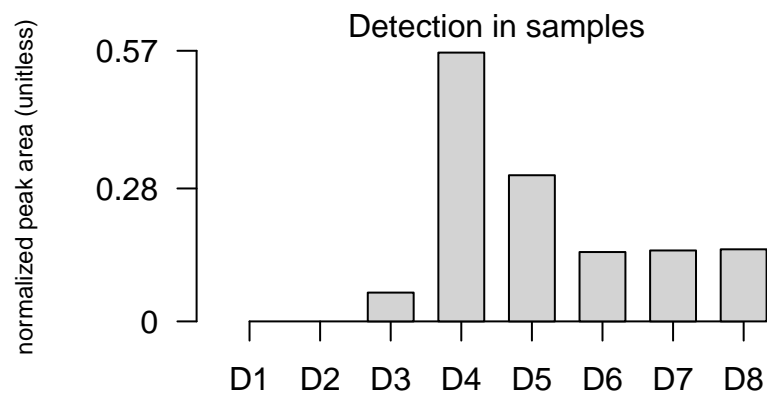
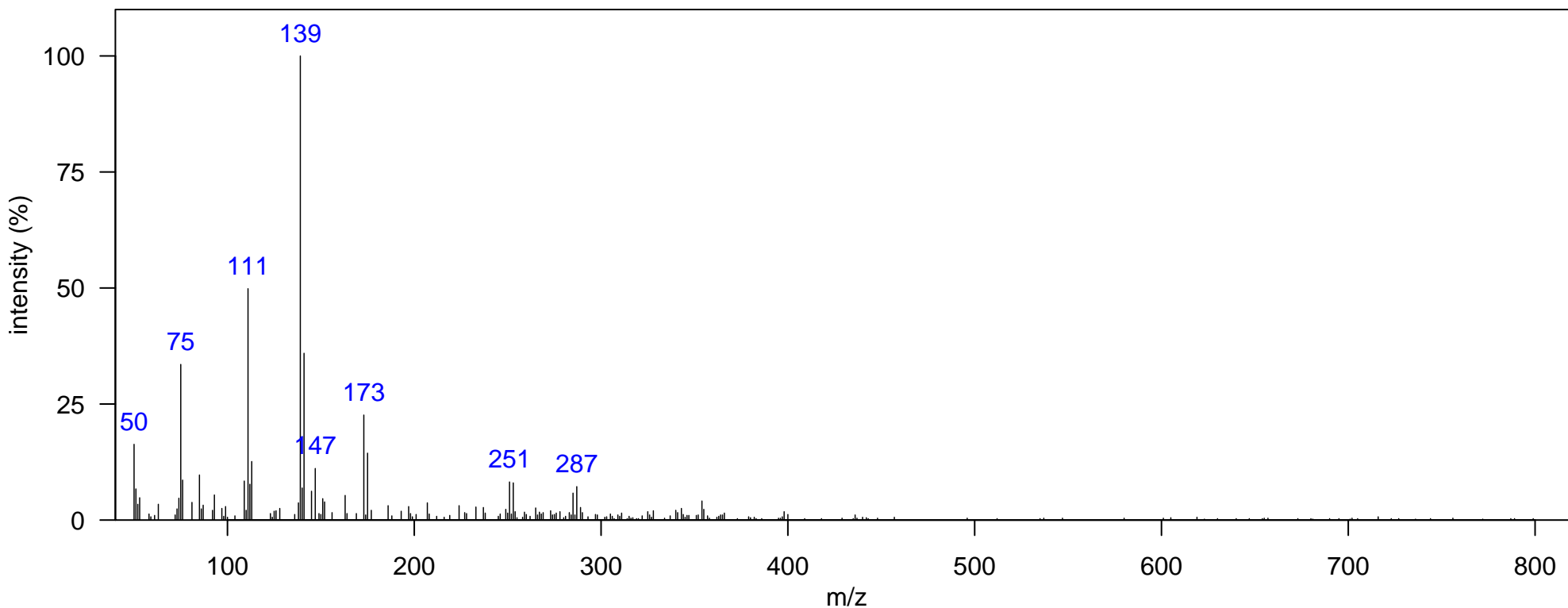


Class: Unknown-2

Elemental Formula:

Source: unknown

Identification:



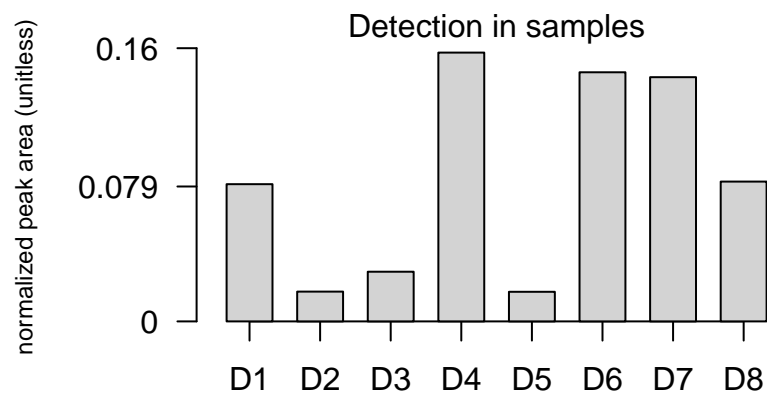
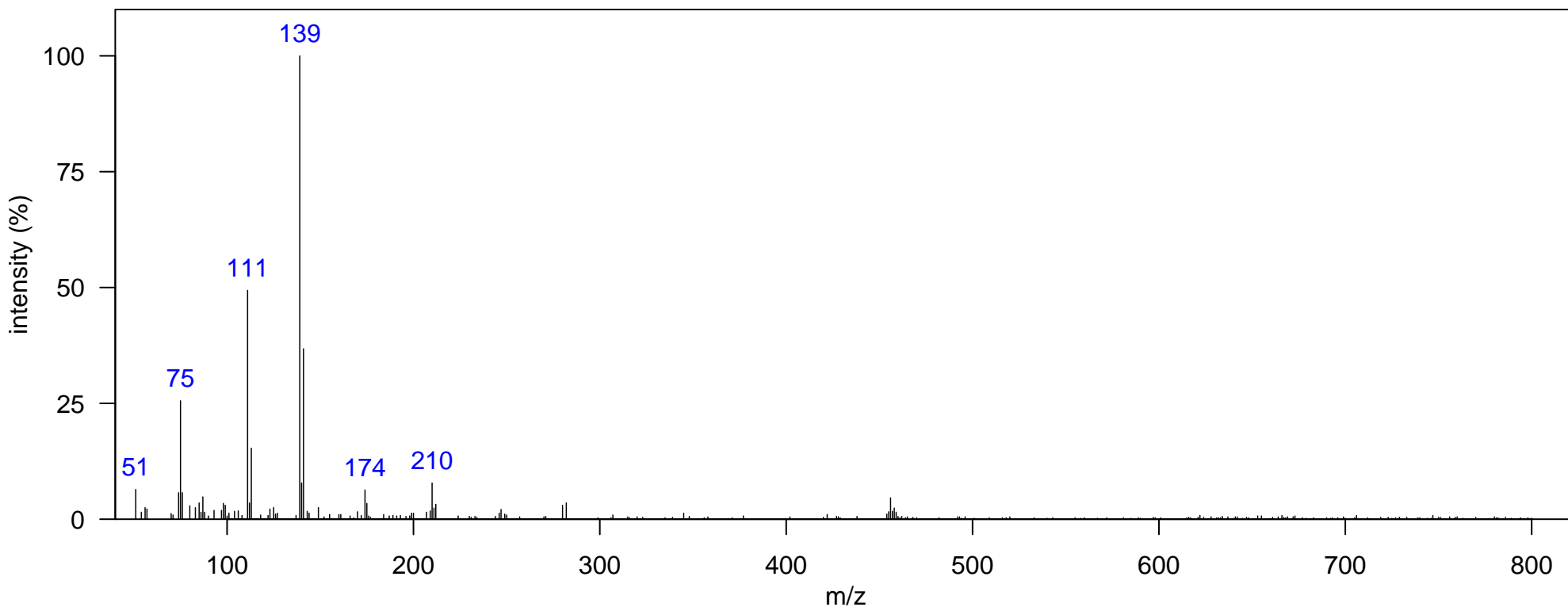
m/z [Fragment]

Class: Unknown-2

Elemental Formula:

Source: unknown

Identification:



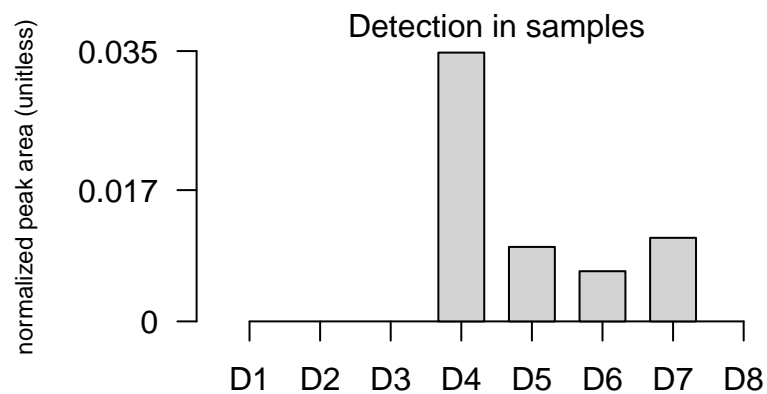
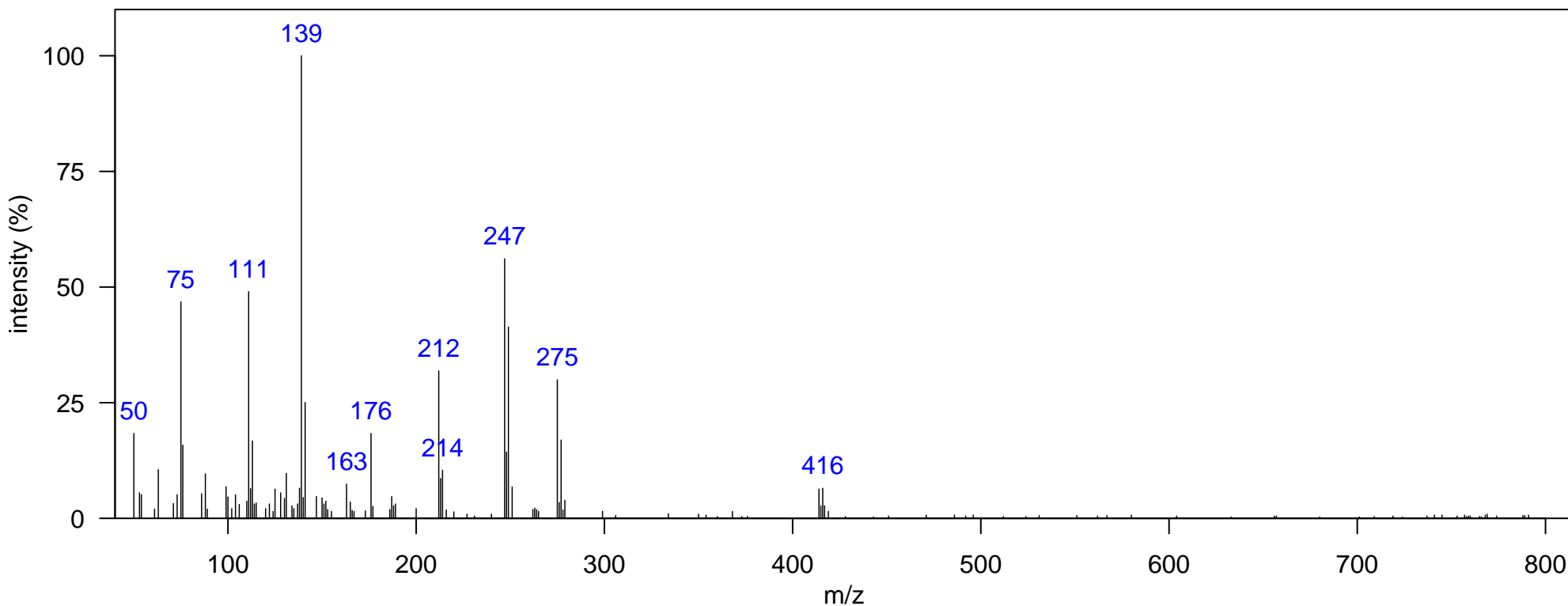
m/z [Fragment]

Class: Unknown-2

Elemental Formula:

Source: unknown

Identification:



m/z [Fragment]

Name: unknown-3-1

Class: Unknown-3

Sample: SoCal dolphin blubber D1,

Ecotype: coastal

Instrument: GCxGC-TOF, EI, 70 eV

Comment: sharing the mass fragmentations

1D RT, 2D RT (s): 1268.12, 1.327

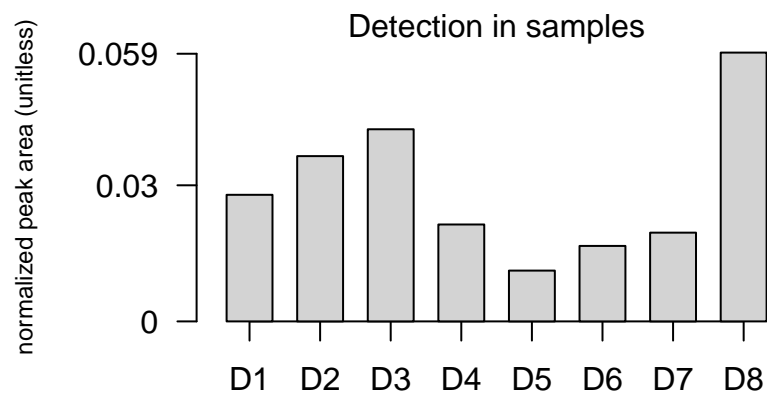
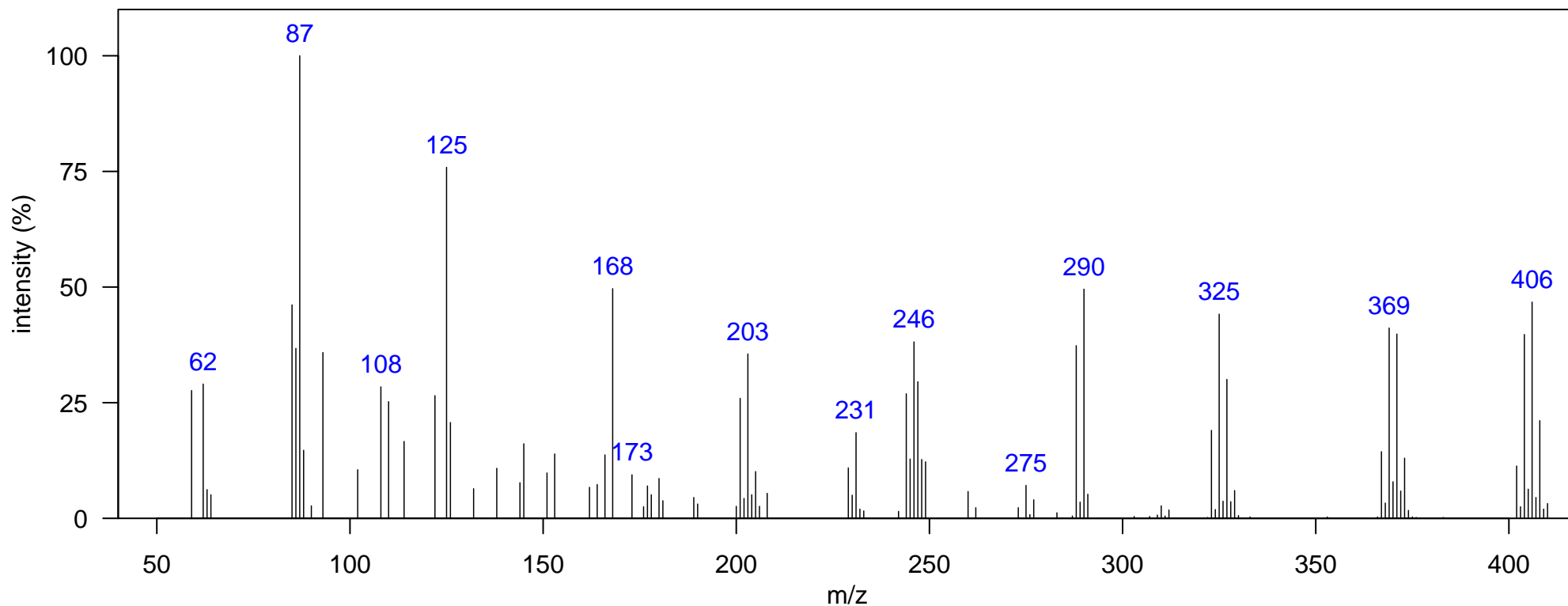
Quantitative Ion m/z: 406

Atlantic Lib: Unknown 1-1

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

Source: unknown

Identification:



m/z [Fragment]

288 [M-BrCl]<sup>+</sup>

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

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

402 M<sup>+</sup>

Sample: SoCal dolphin blubber D3,

1D RT, 2D RT (s): 1380.05, 1.419

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

Ecotype: coastal

Quantitative Ion m/z: 484

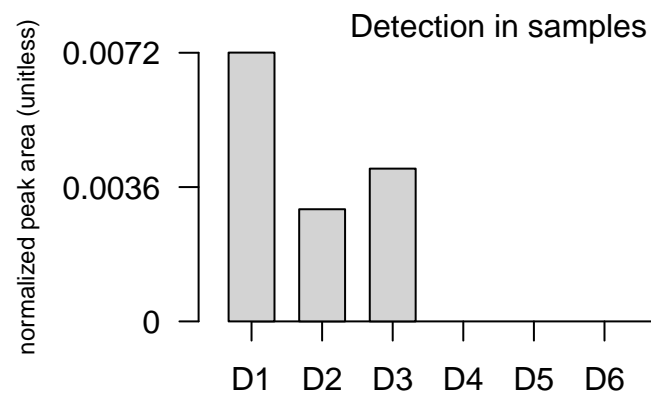
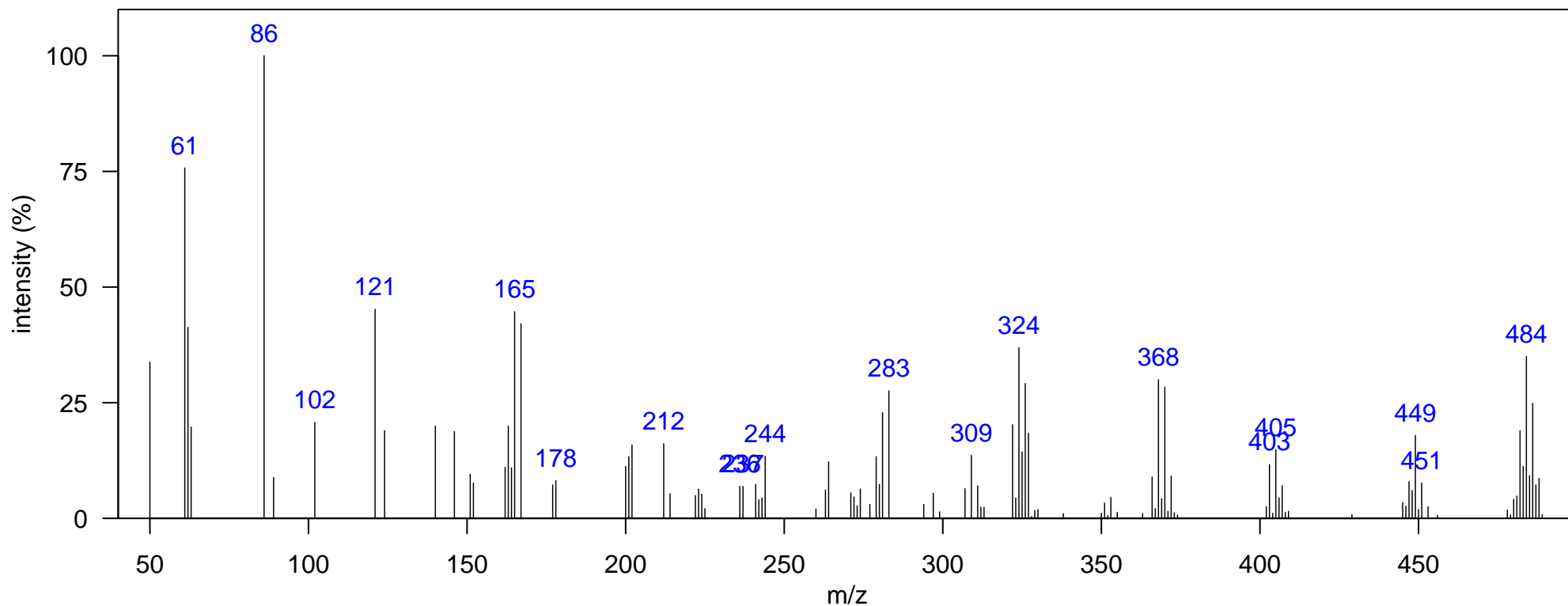
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: Unknown 1-2

Identification:

Comment: sharing the mass fragmentations



## 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>

Name: unknown-3-3

Class: Unknown-3

Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1432.52, 1.511

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

Ecotype: coastal

Quantitative Ion m/z: 484

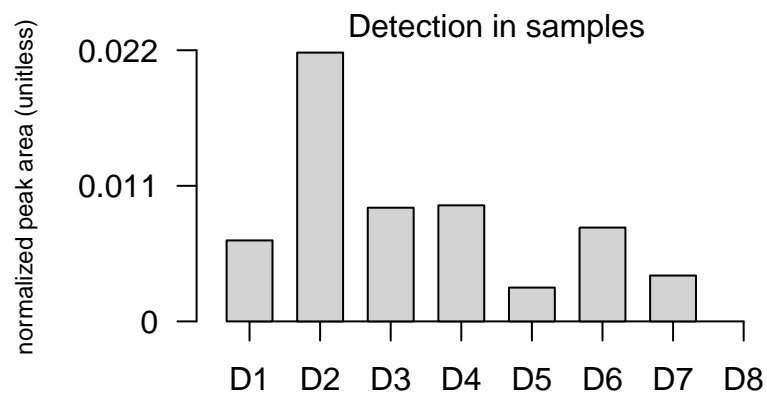
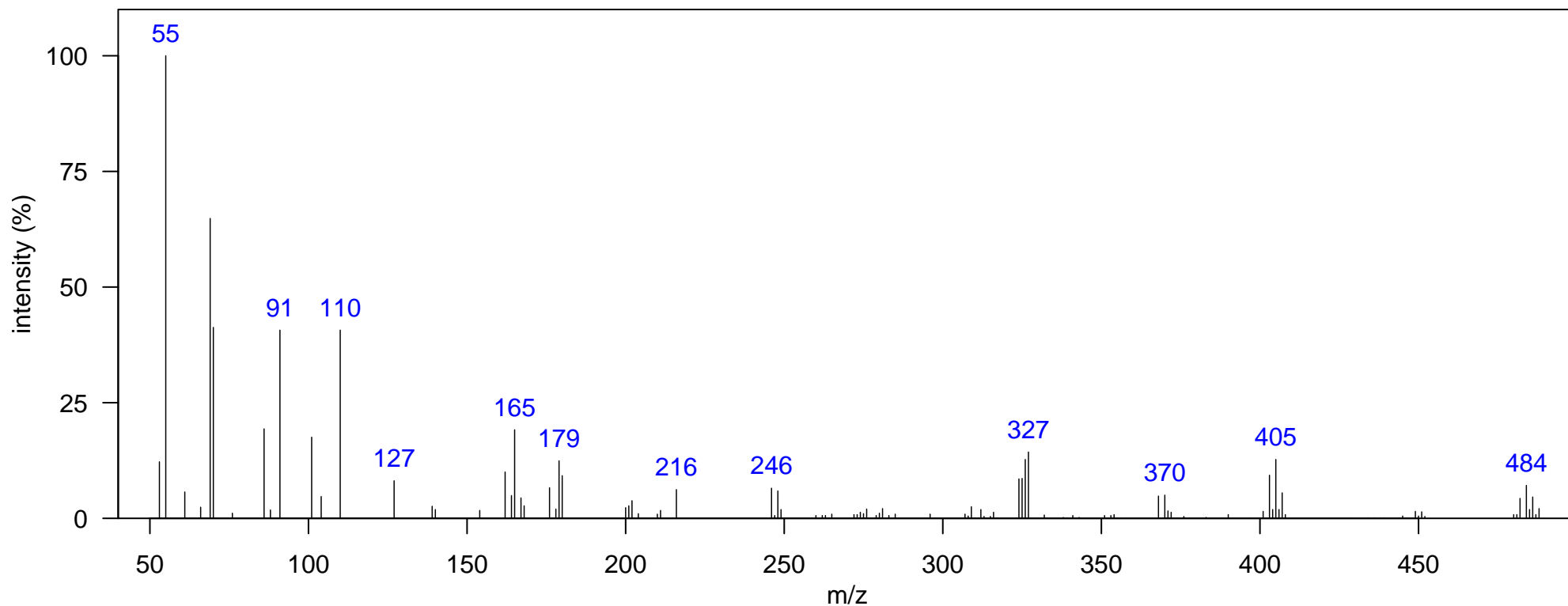
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib: Unknown 1-2

Identification:

Comment: sharing the mass fragmentations



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,

1D RT, 2D RT (s): 1317.09, 1.247

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

Ecotype: coastal

Quantitative Ion m/z: 308

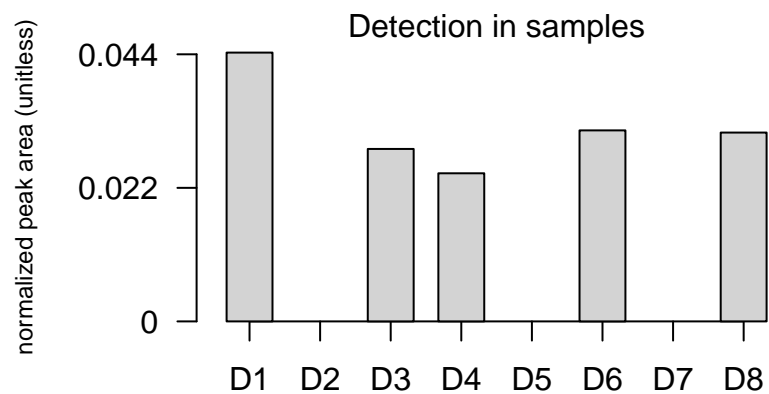
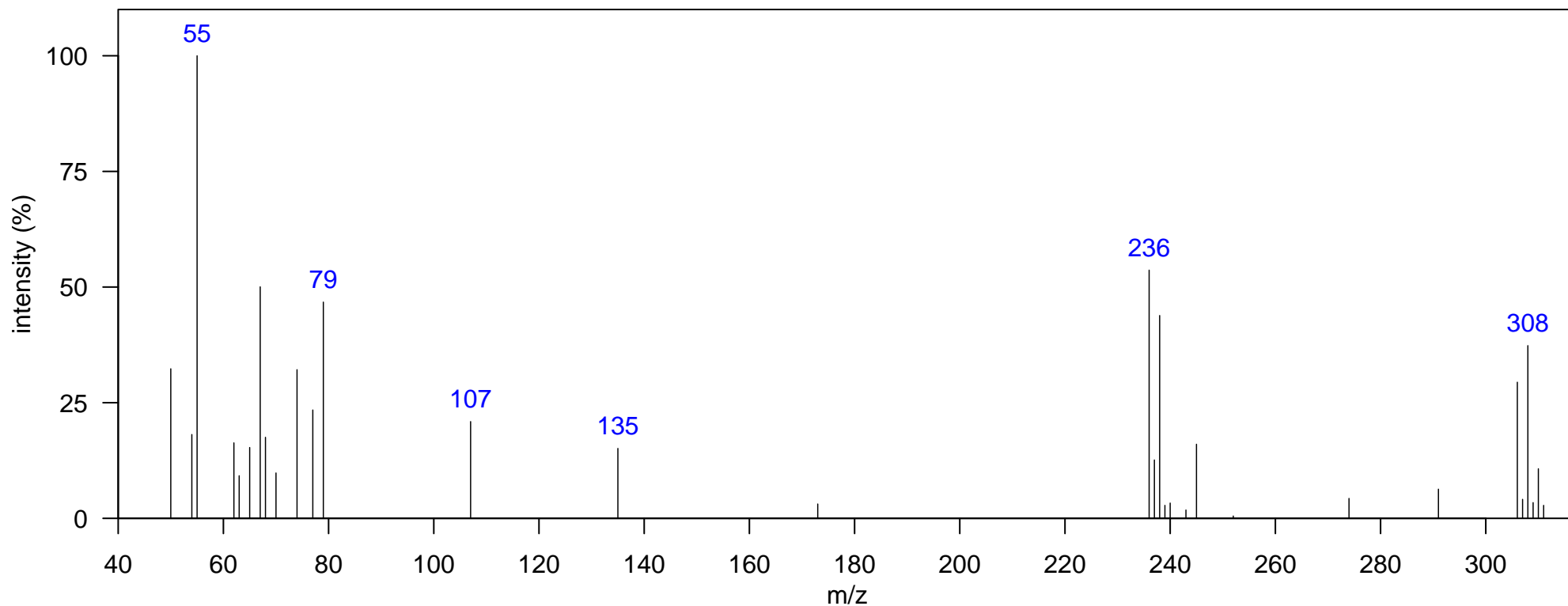
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

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,

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

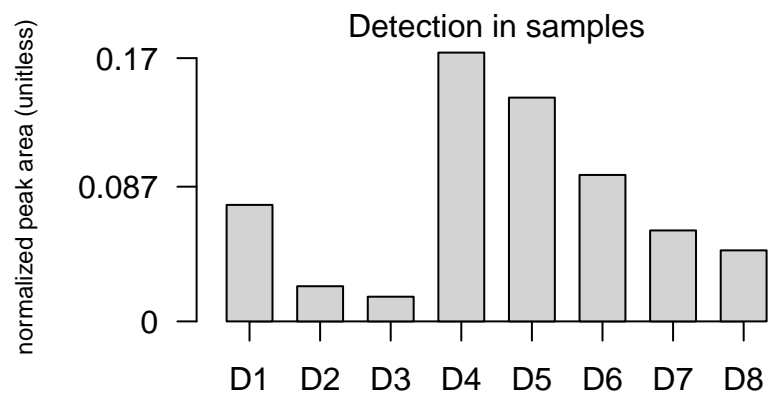
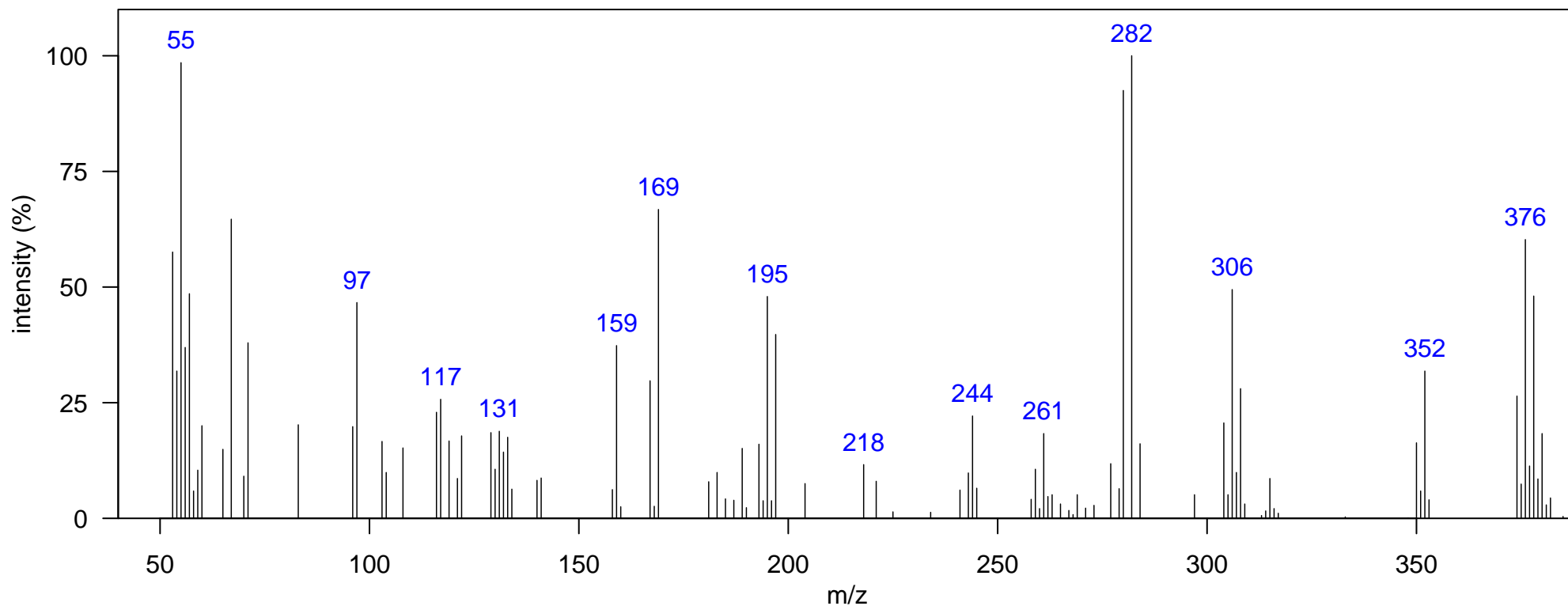
Source: unknown

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,

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

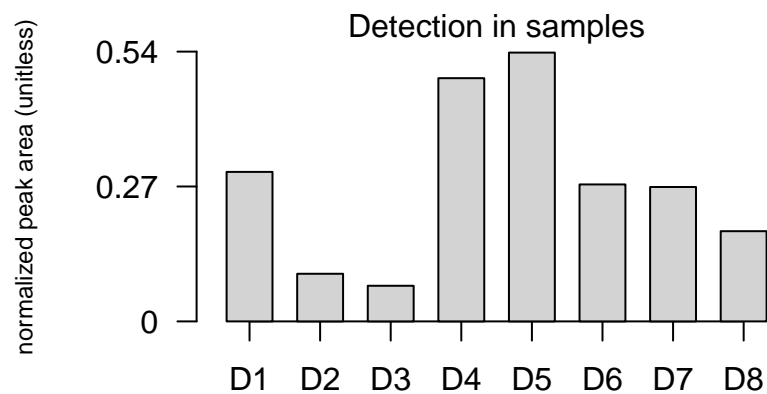
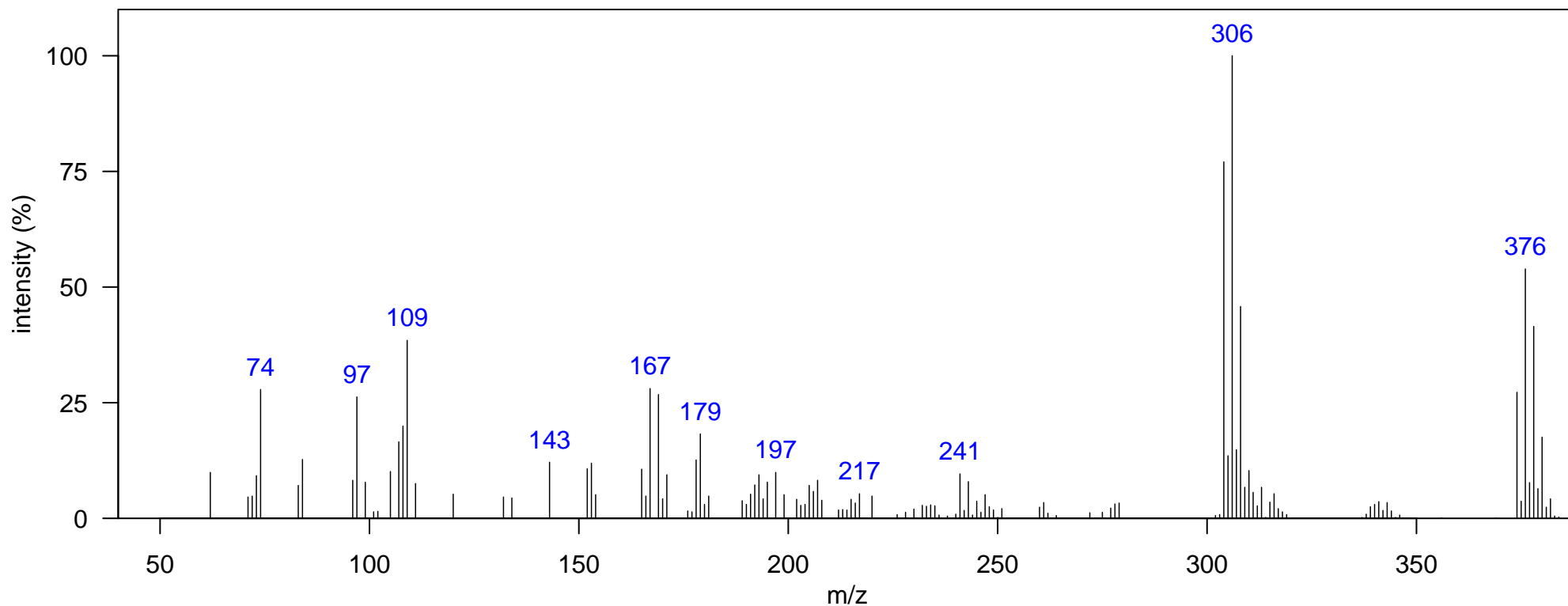
Source: unknown

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,

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

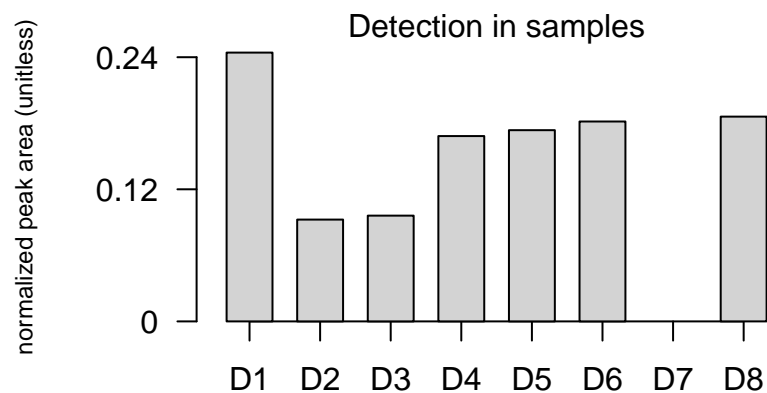
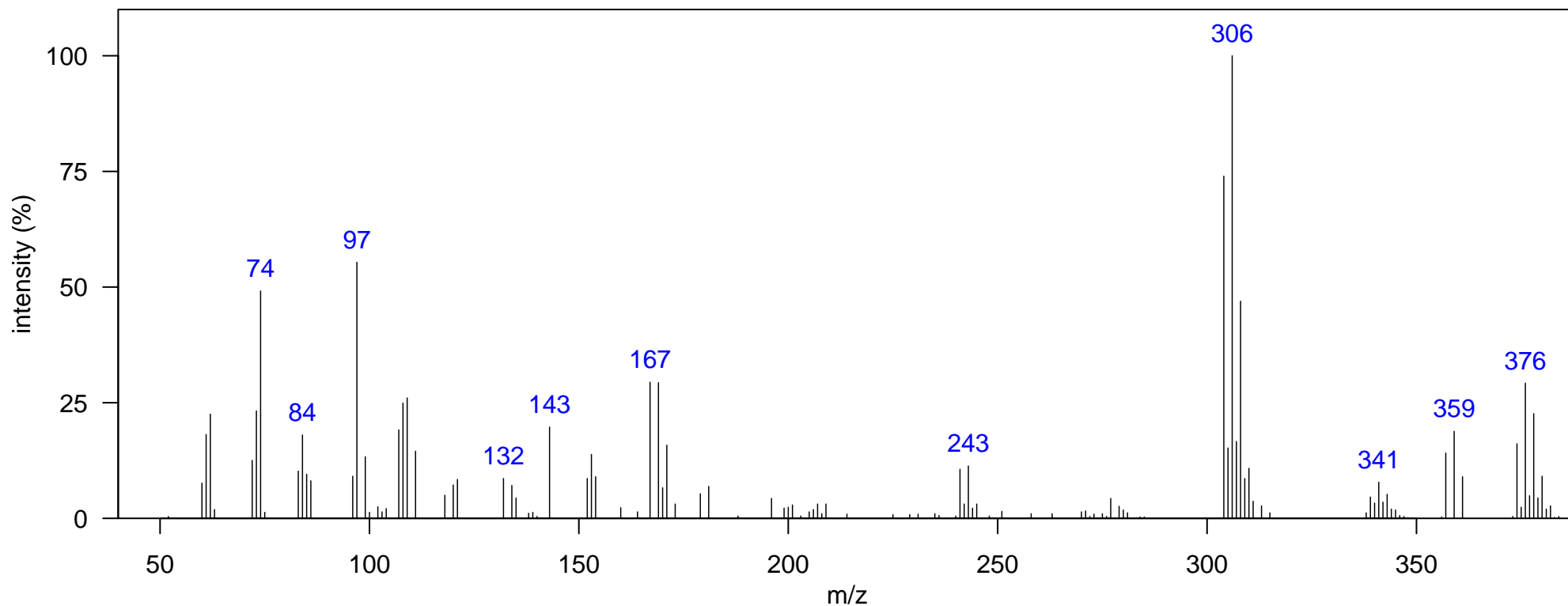
Source: unknown

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,

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

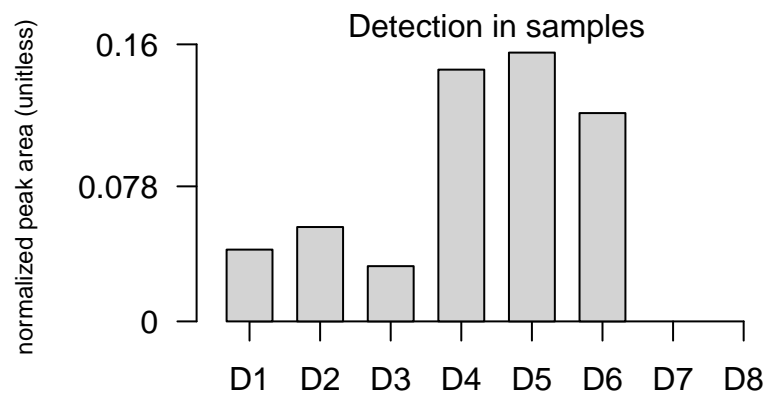
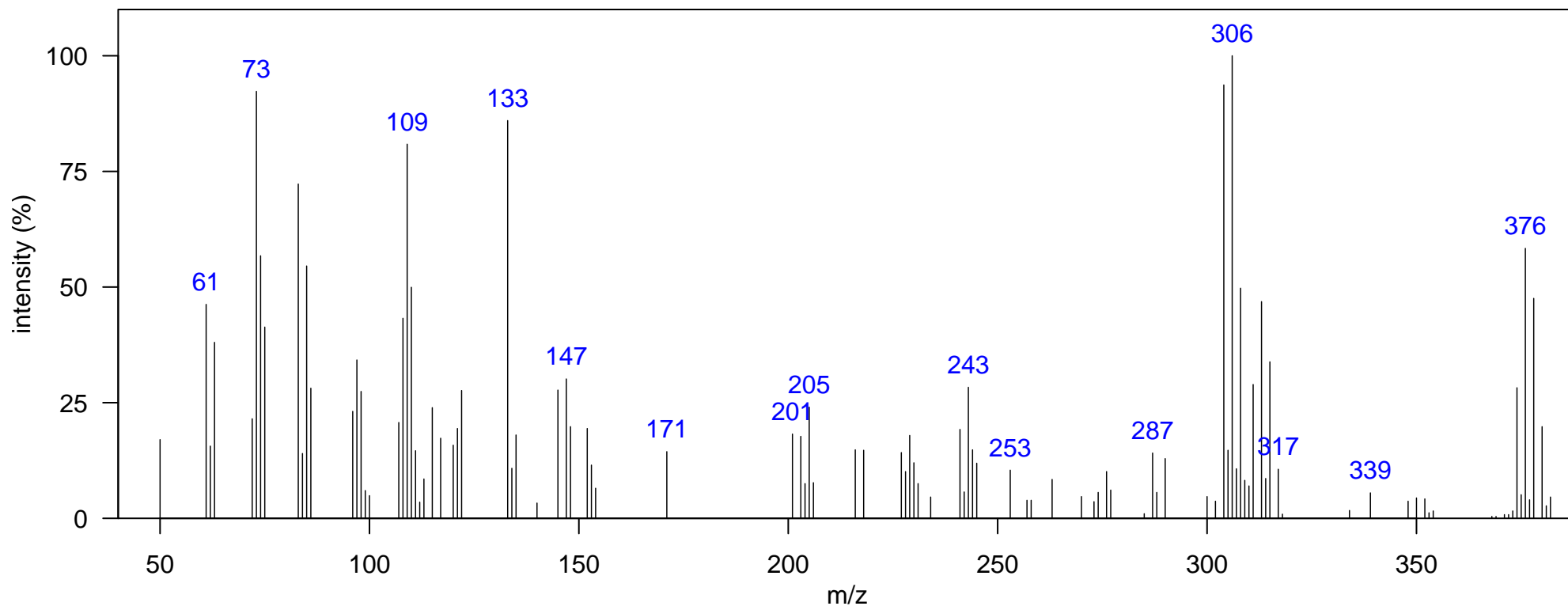
Source: unknown

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>

Name: unknown-4-6

Class: Unknown-4

Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1484.99, 1.386

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

Ecotype: coastal

Quantitative Ion m/z: 376

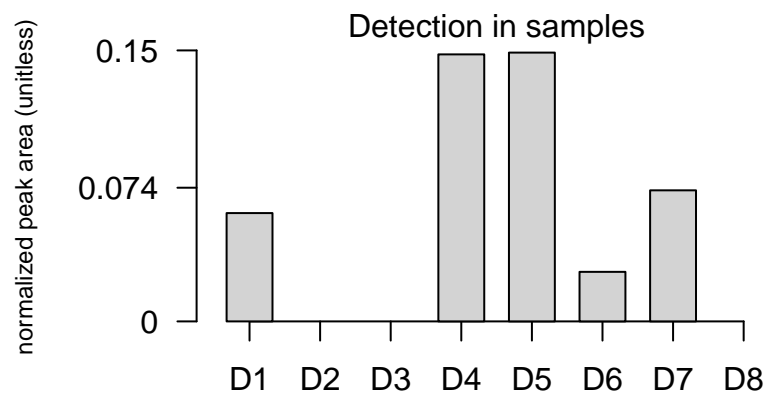
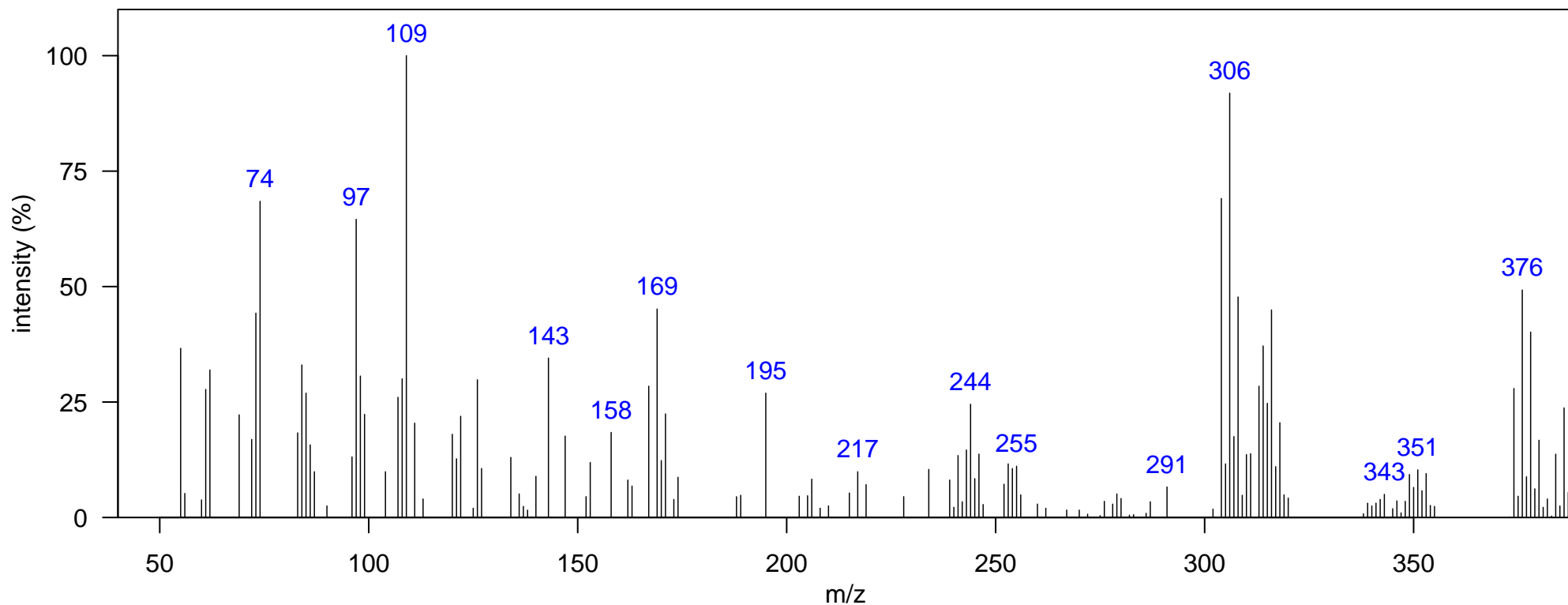
Source: unknown

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-4-7

Class: Unknown-4

Sample: SoCal dolphin blubber D5,

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

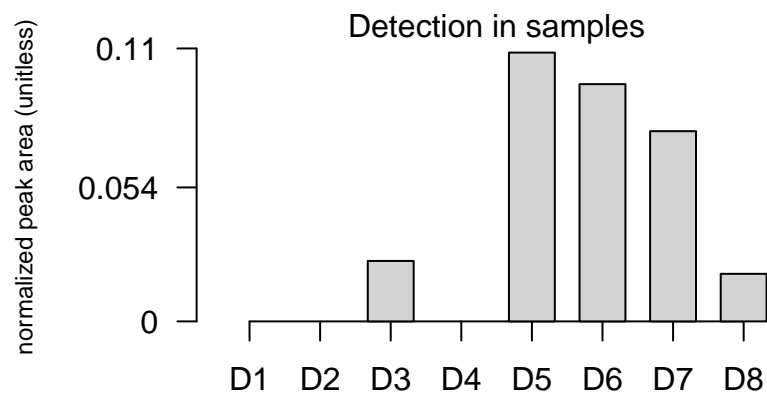
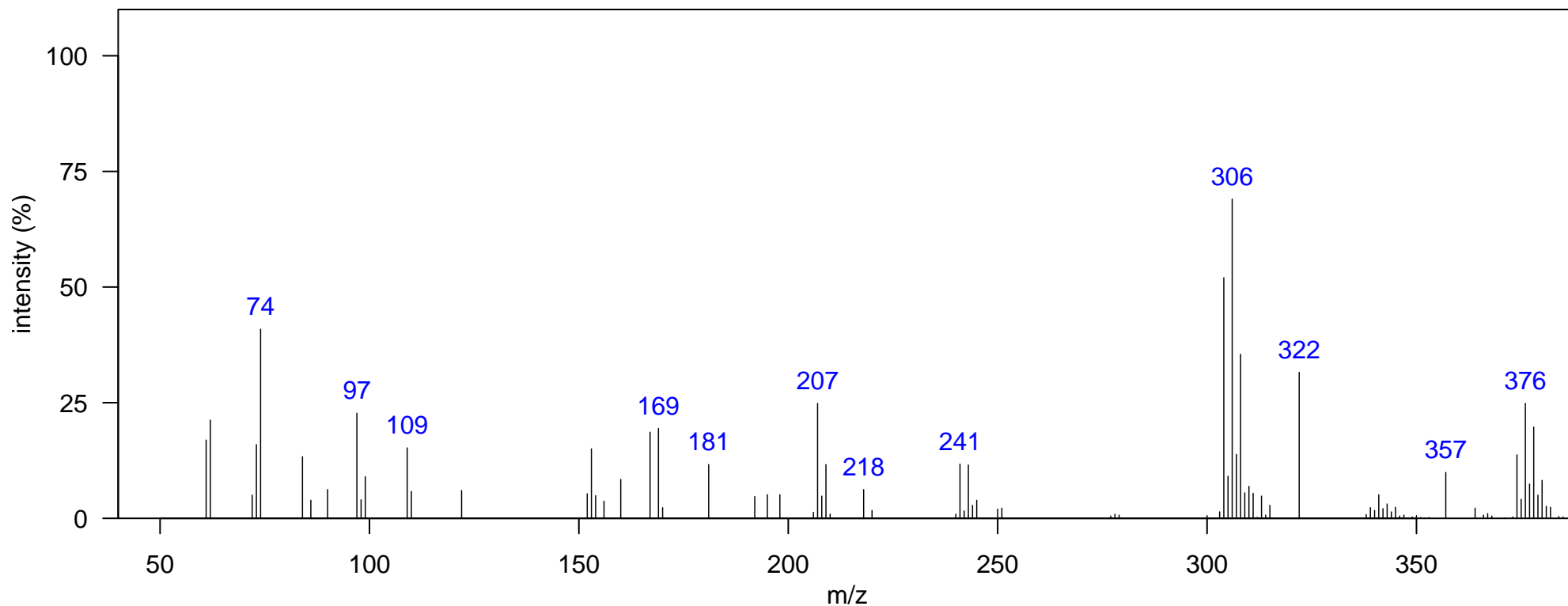
Source: unknown

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>

Name: unknown-4-8

Class: Unknown-4

Sample: SoCal dolphin blubber D1,

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

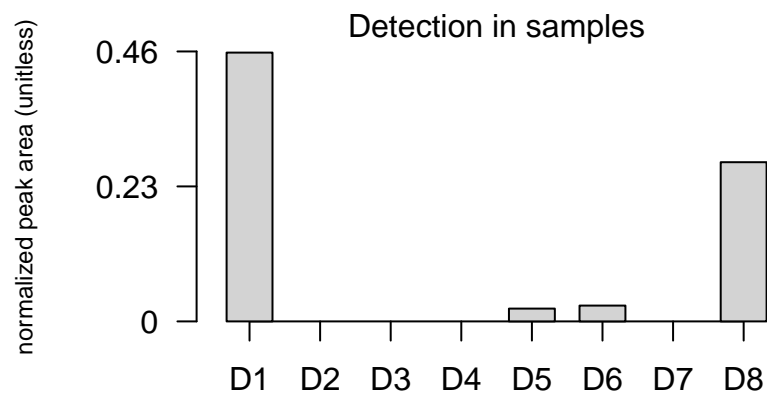
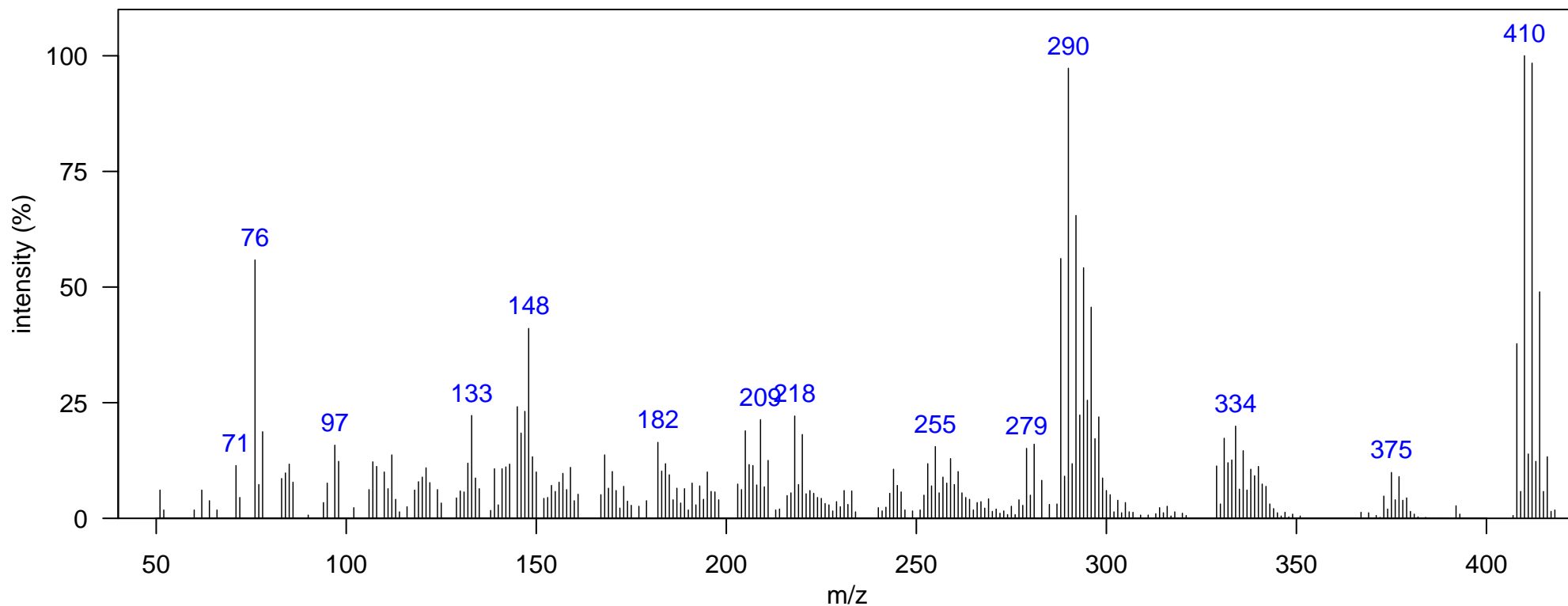
Source: unknown

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,

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

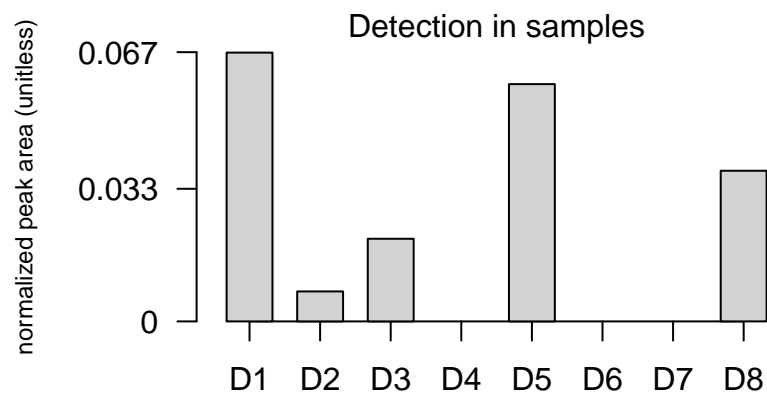
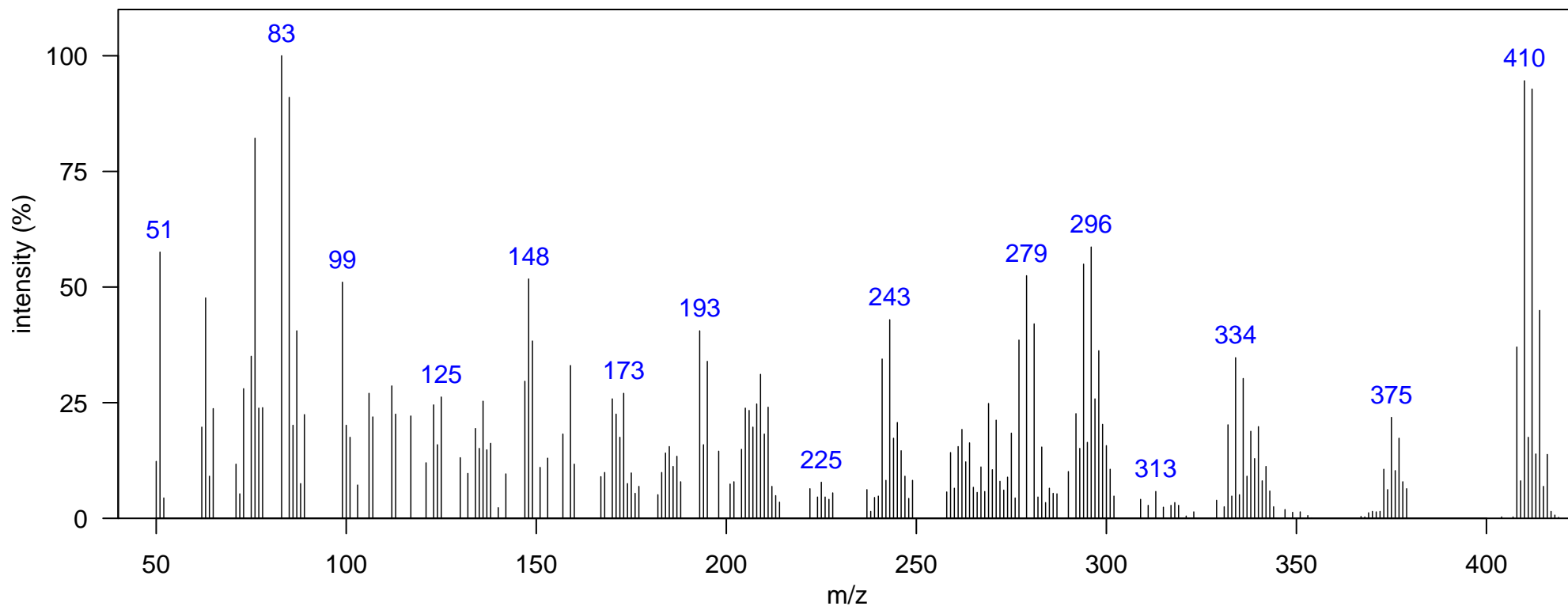
Source: unknown

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,

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

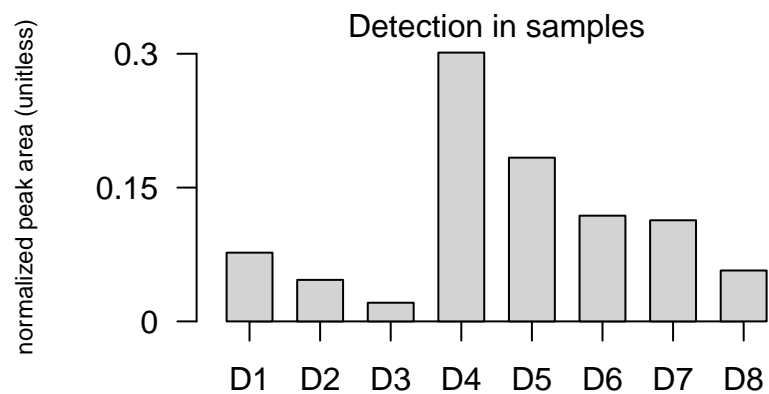
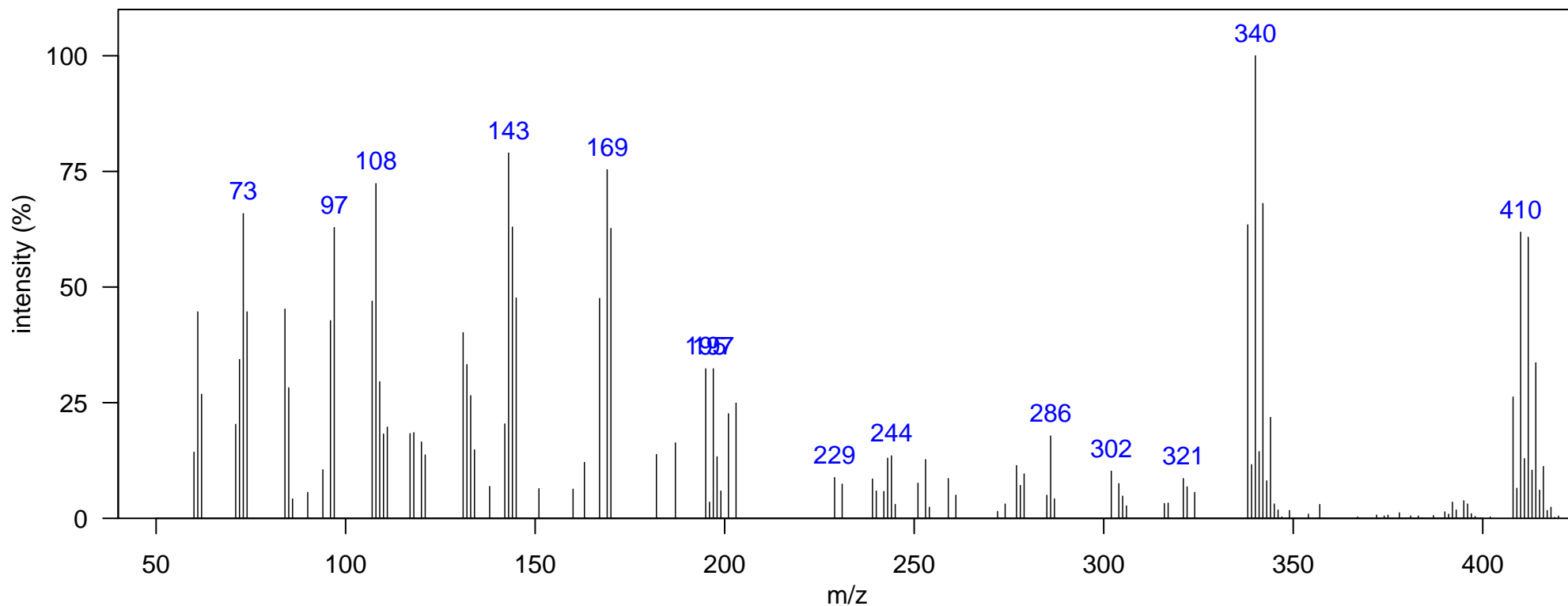
Source: unknown

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,

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

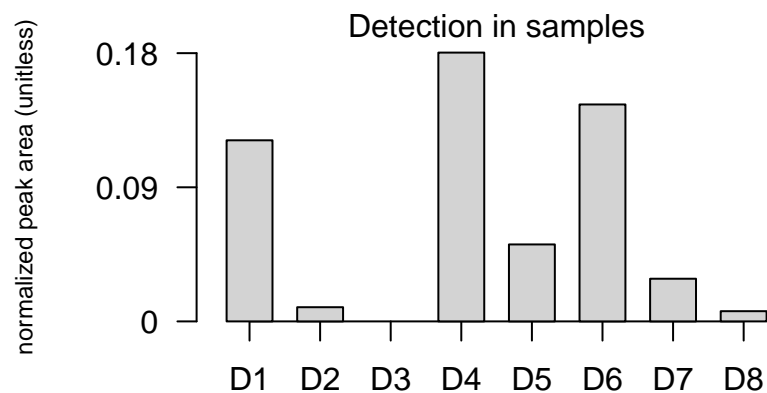
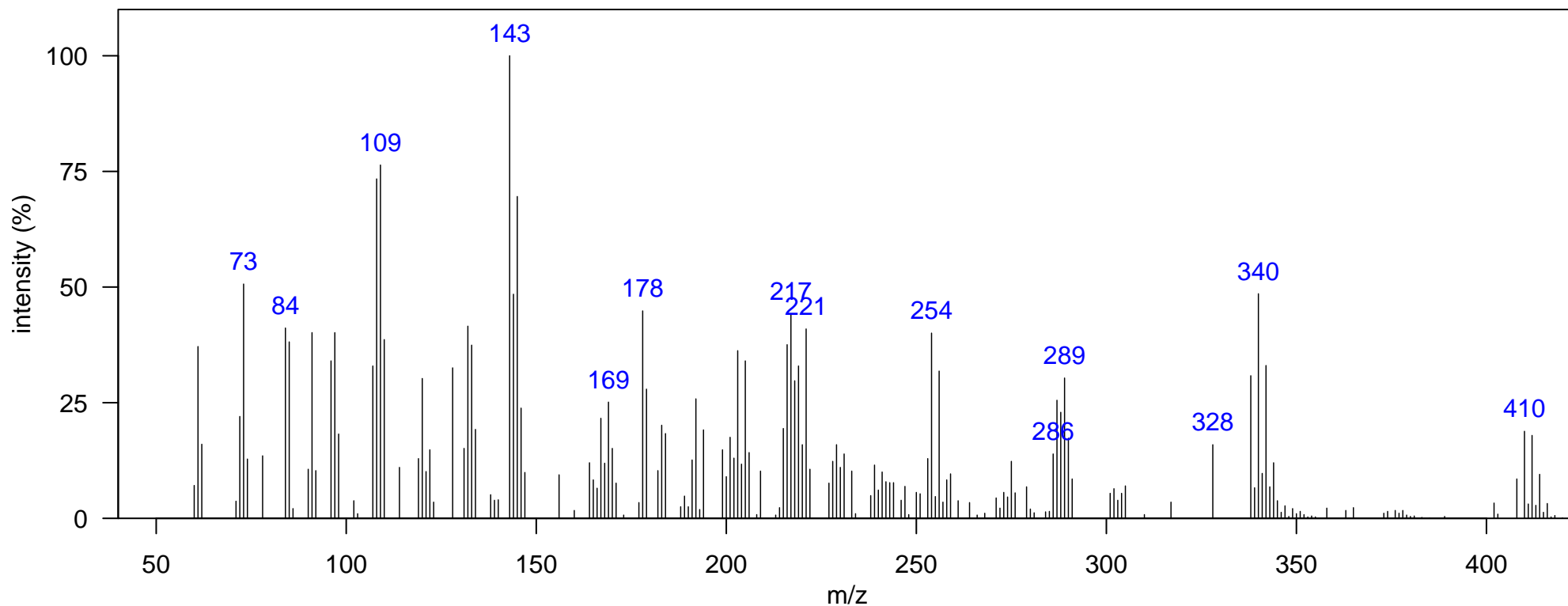
Source: unknown

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,

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

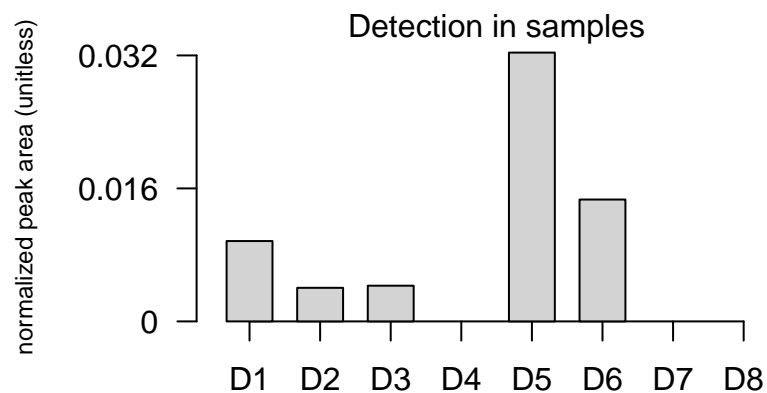
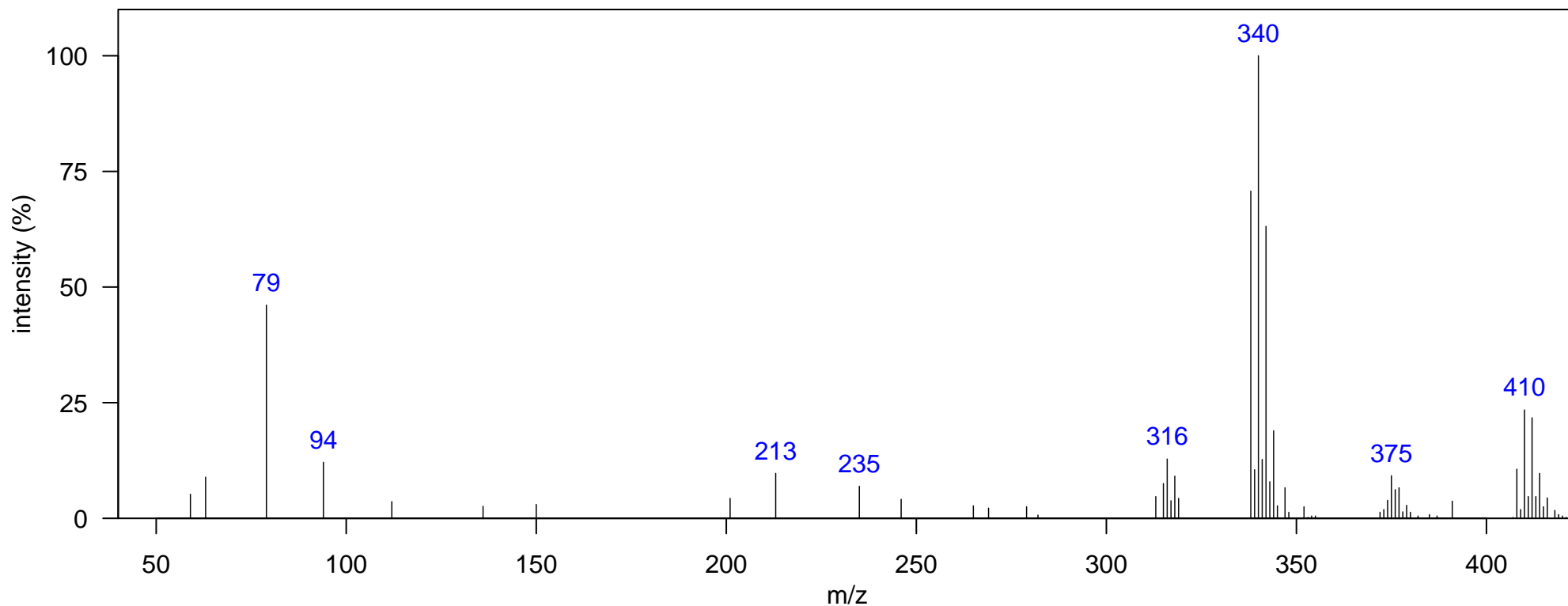
Source: unknown

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>

Name: unknown-4-13

Class: Unknown-4

Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1586.44, 1.663

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

Ecotype: coastal

Quantitative Ion m/z: 410

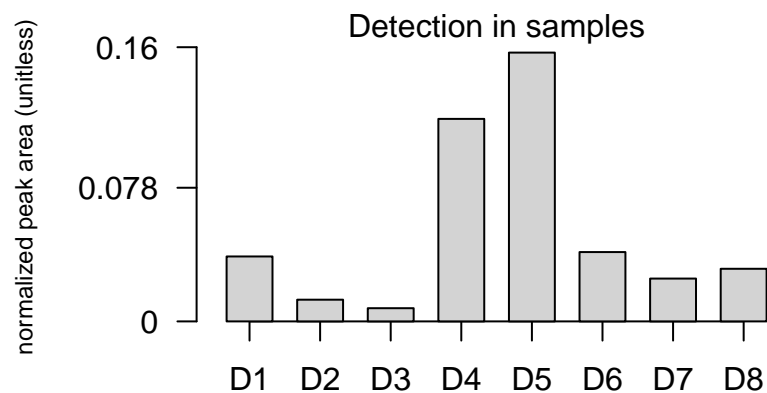
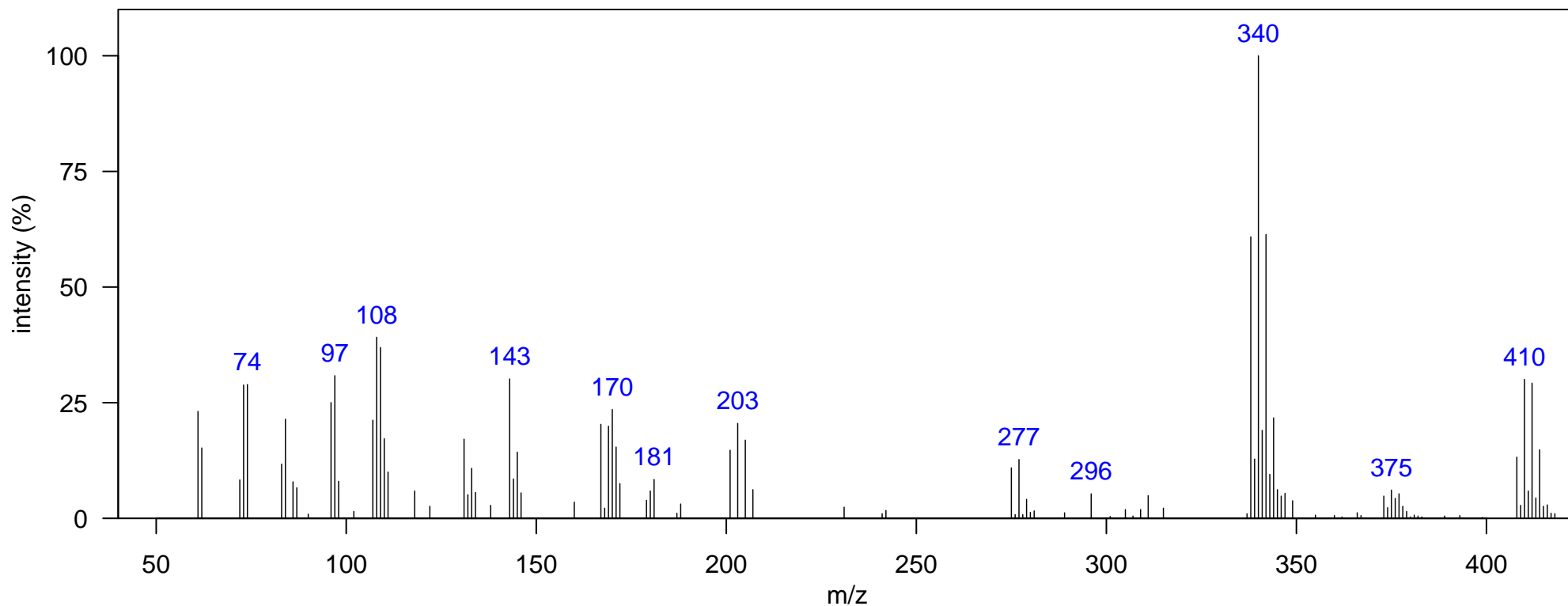
Source: unknown

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>

Name: unknown-4-14

Class: Unknown-4

Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1617.92, 1.742

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

Ecotype: coastal

Quantitative Ion m/z: 446

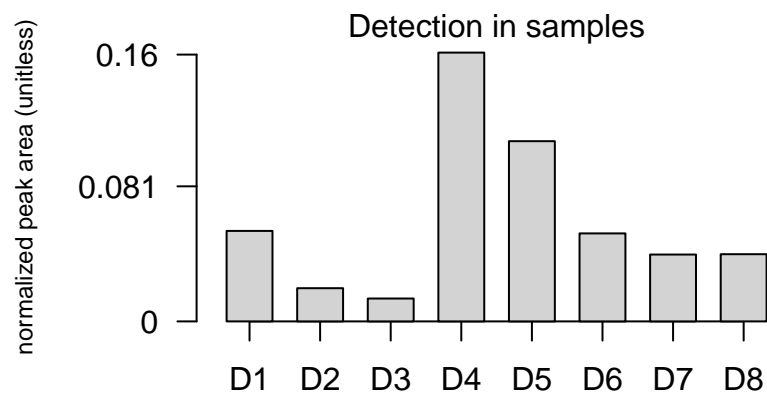
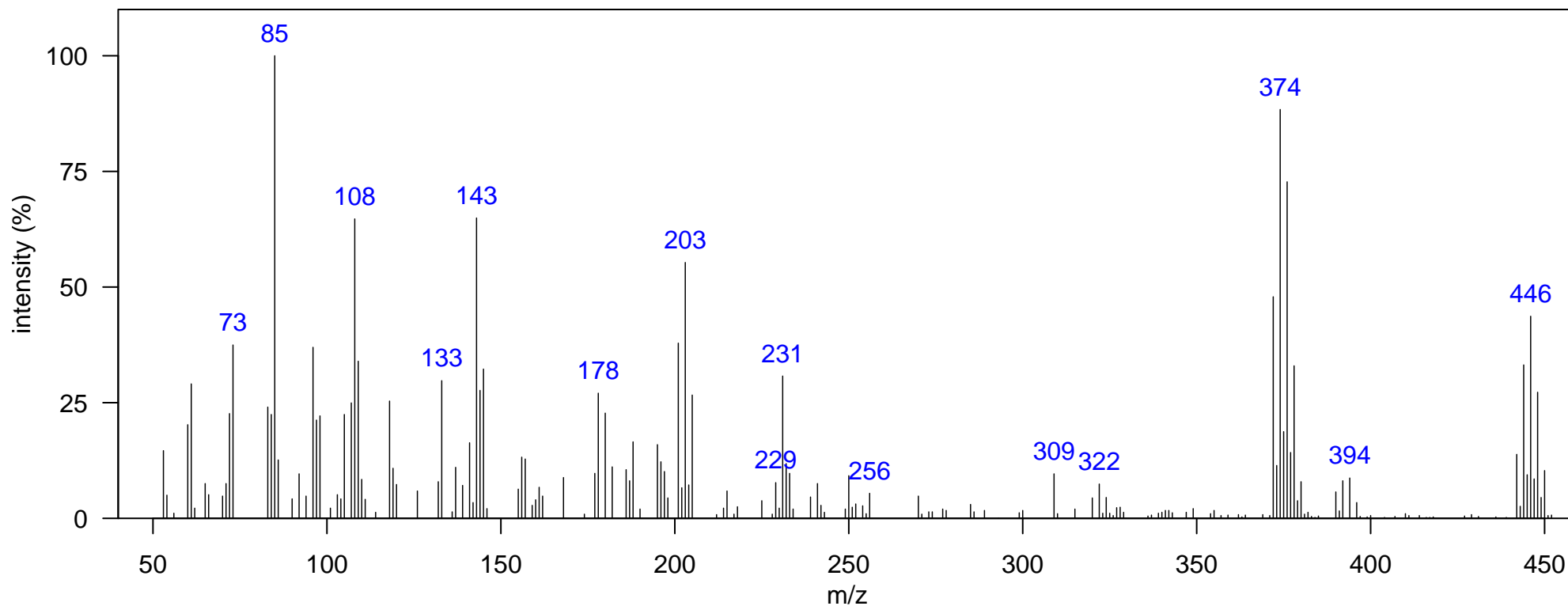
Source: unknown

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-4-15

Class: Unknown-4

Sample: SoCal dolphin blubber D1,

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

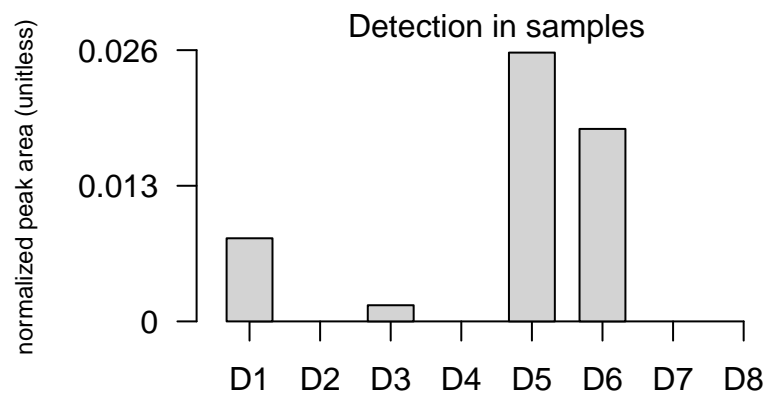
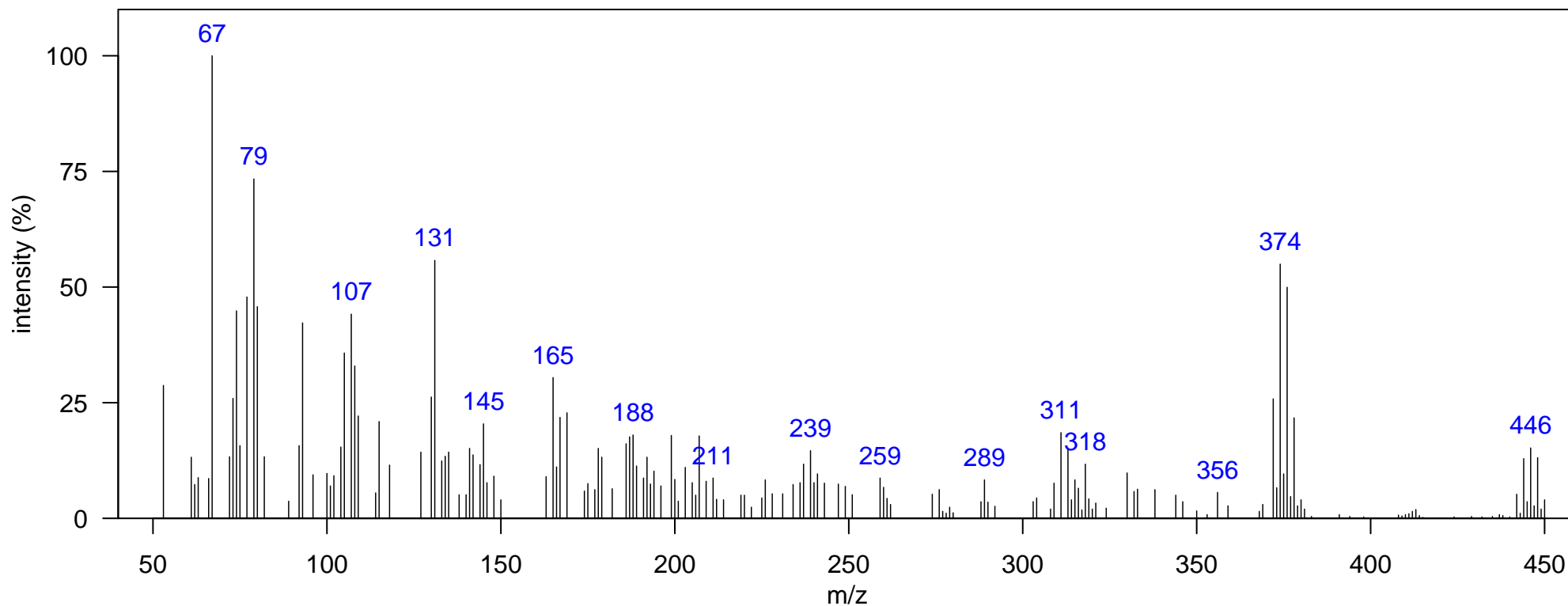
Source: unknown

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,

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

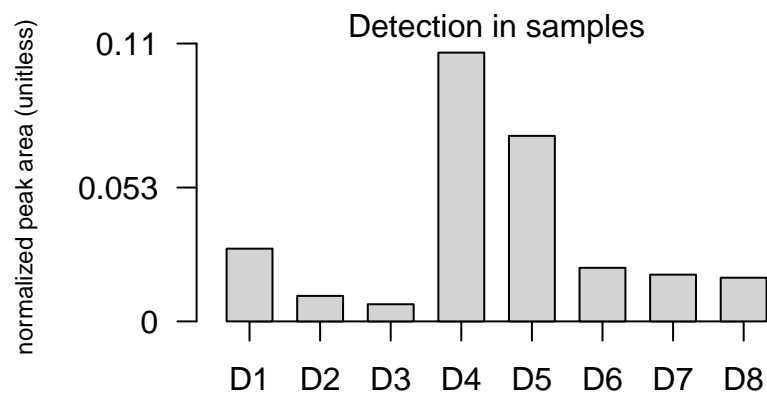
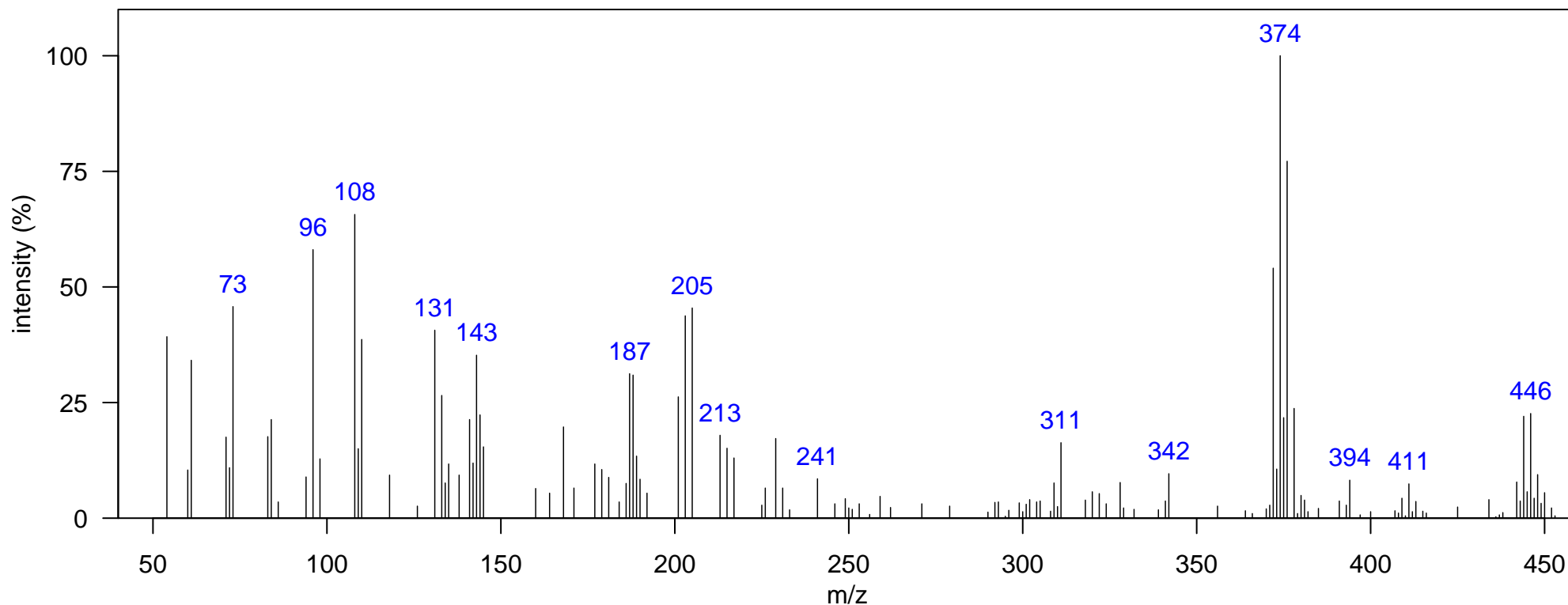
Source: unknown

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>

Name: unknown-4-17

Class: Unknown-4

Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1729.85, 1.894

Elemental Formula: C<sub>12</sub>HCl<sub>9</sub>O

Ecotype: coastal

Quantitative Ion m/z: 480

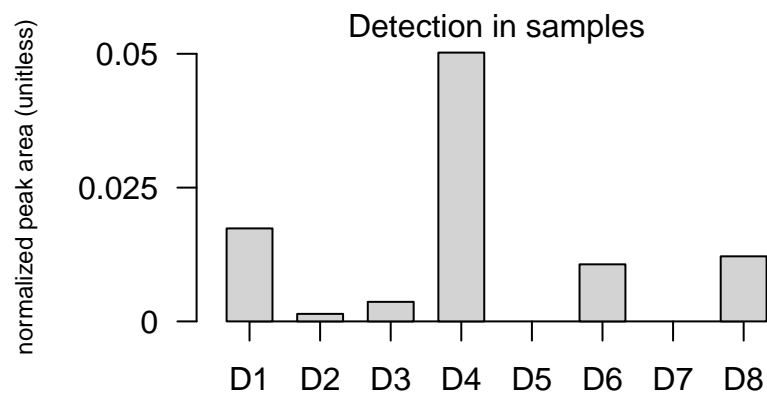
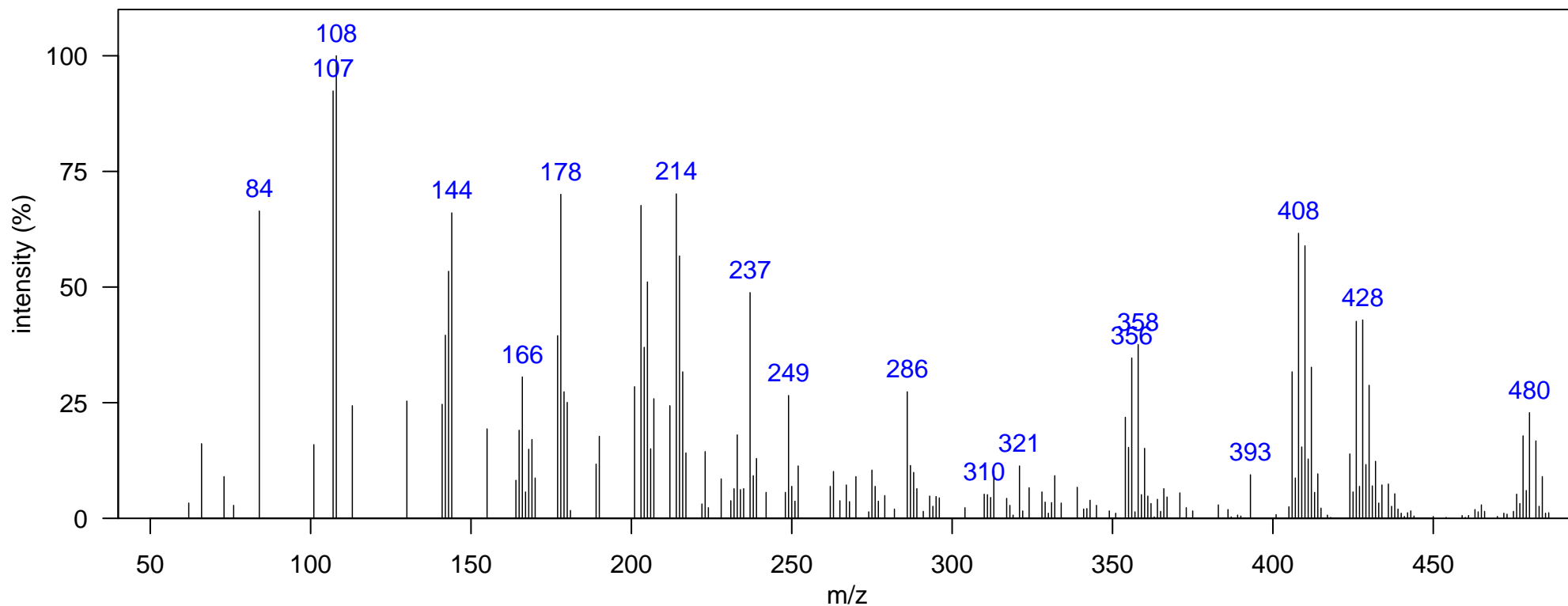
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification:

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

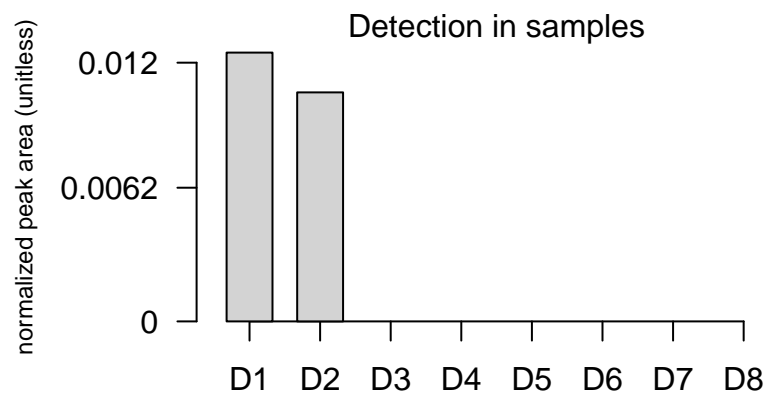
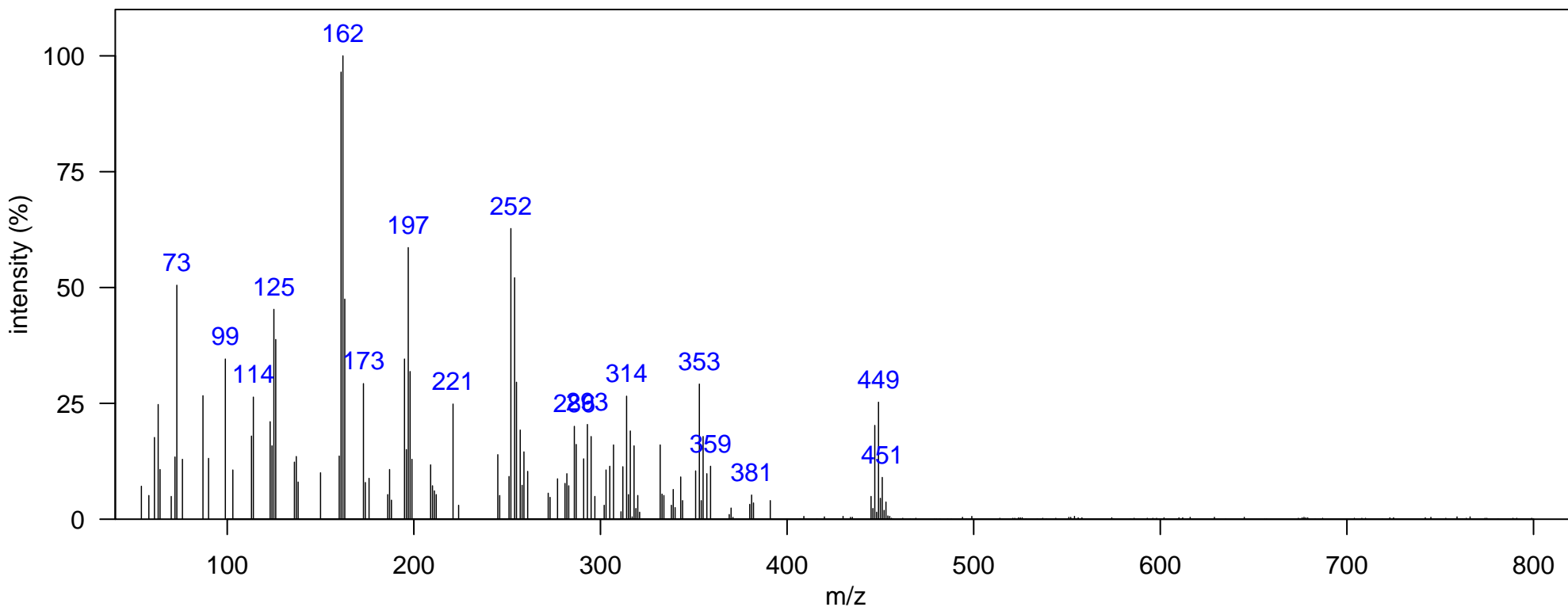


m/z [Fragment]
428 PCB Interference
406 [M-Cl <sub>2</sub> ] <sup>+</sup>
476 M <sup>+</sup>

Elemental Formula:

Source: unknown

Identification:



m/z [Fragment]

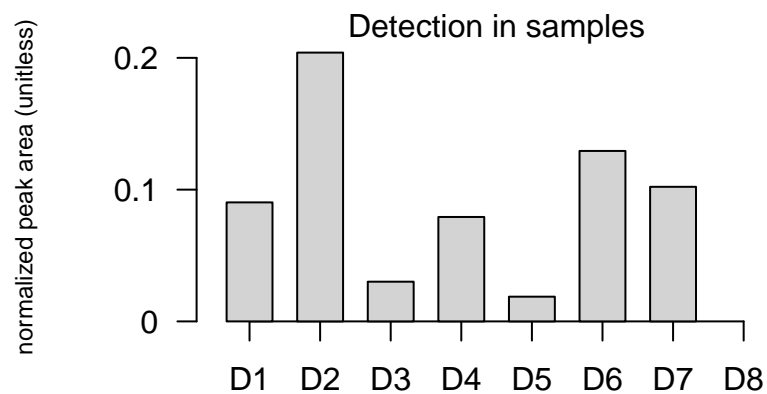


Elemental Formula:

Source: unknown

Identification:

Sample: SoCal dolphin blubber D1,

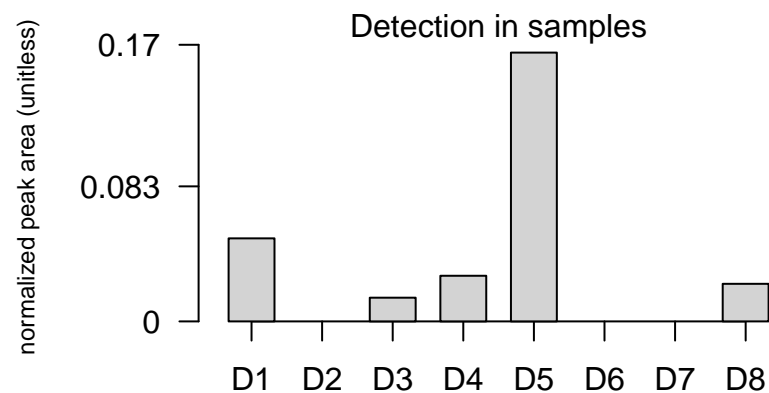
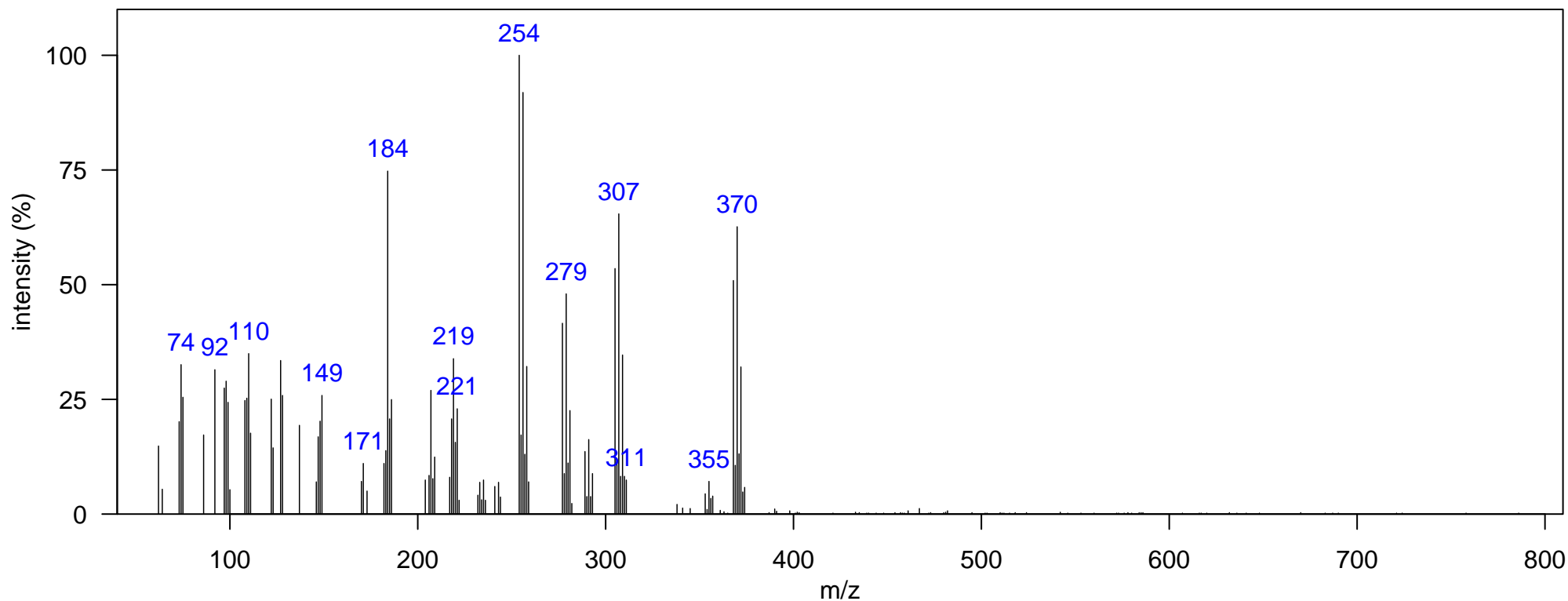


m/z [Fragment]

Elemental Formula:

Source: unknown

Identification:



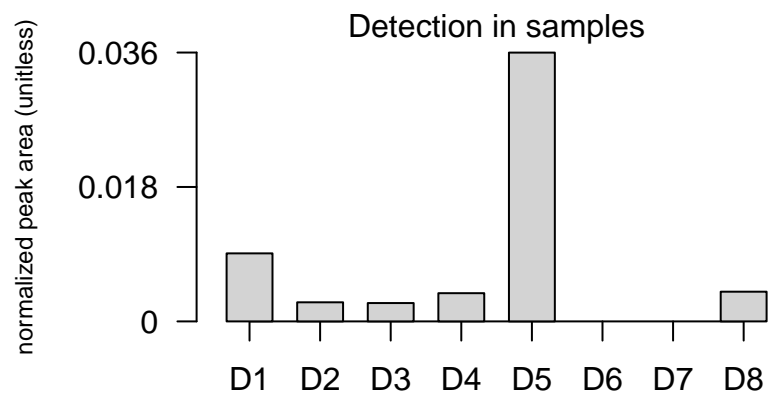
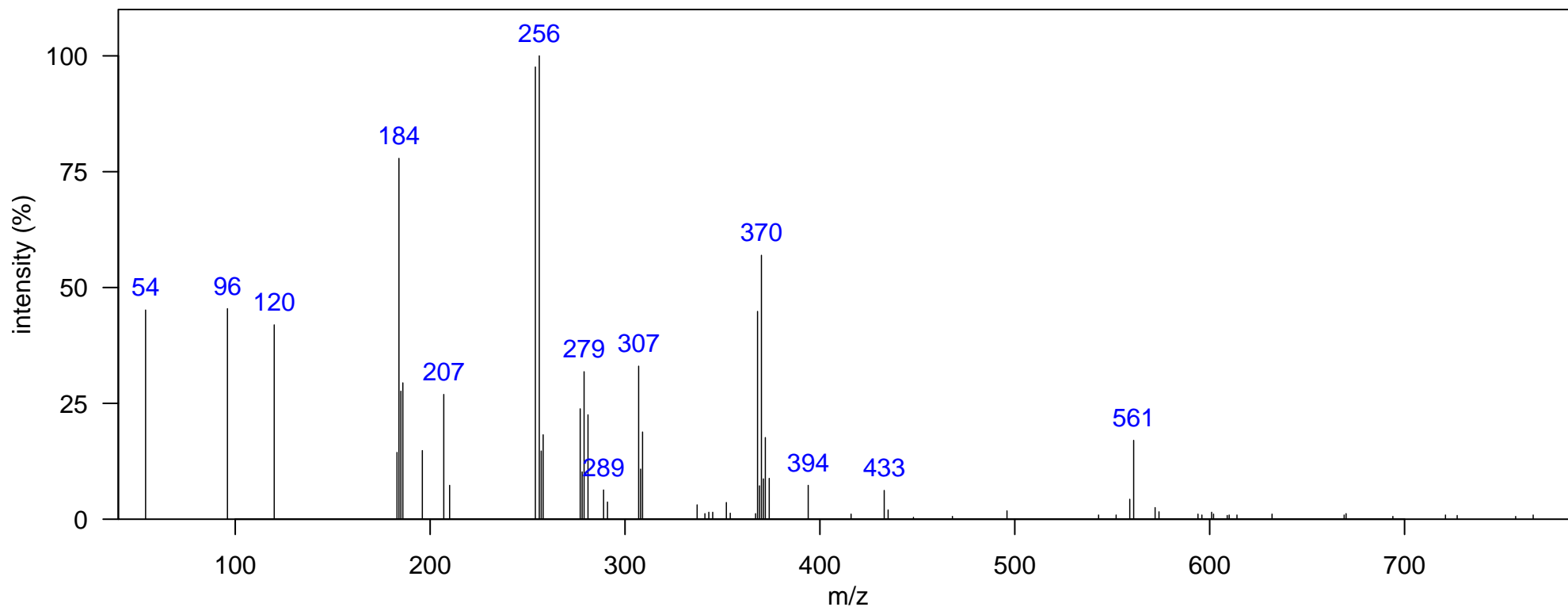
m/z [Fragment]

Elemental Formula:

Source: unknown

Identification:

Comment: sharing common m/z ions and the pattern



m/z [Fragment]

Name: unknown-6-3

Class: Unknown-6

Sample: SoCal dolphin blubber D1,

1D RT, 2D RT (s): 1698.37, 2.27

Elemental Formula:

Ecotype: coastal

Quantitative Ion m/z: 370

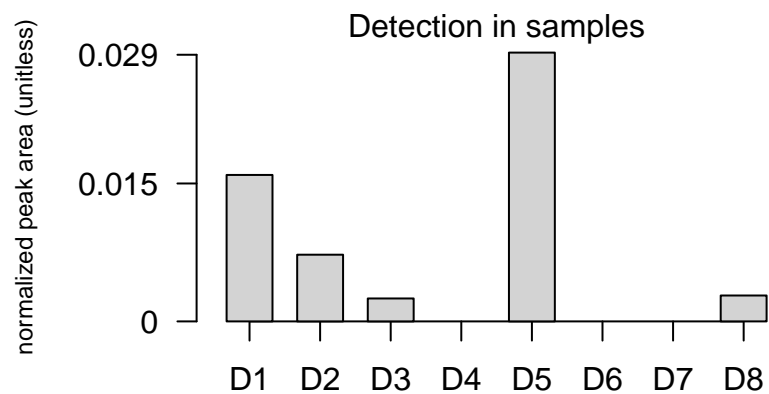
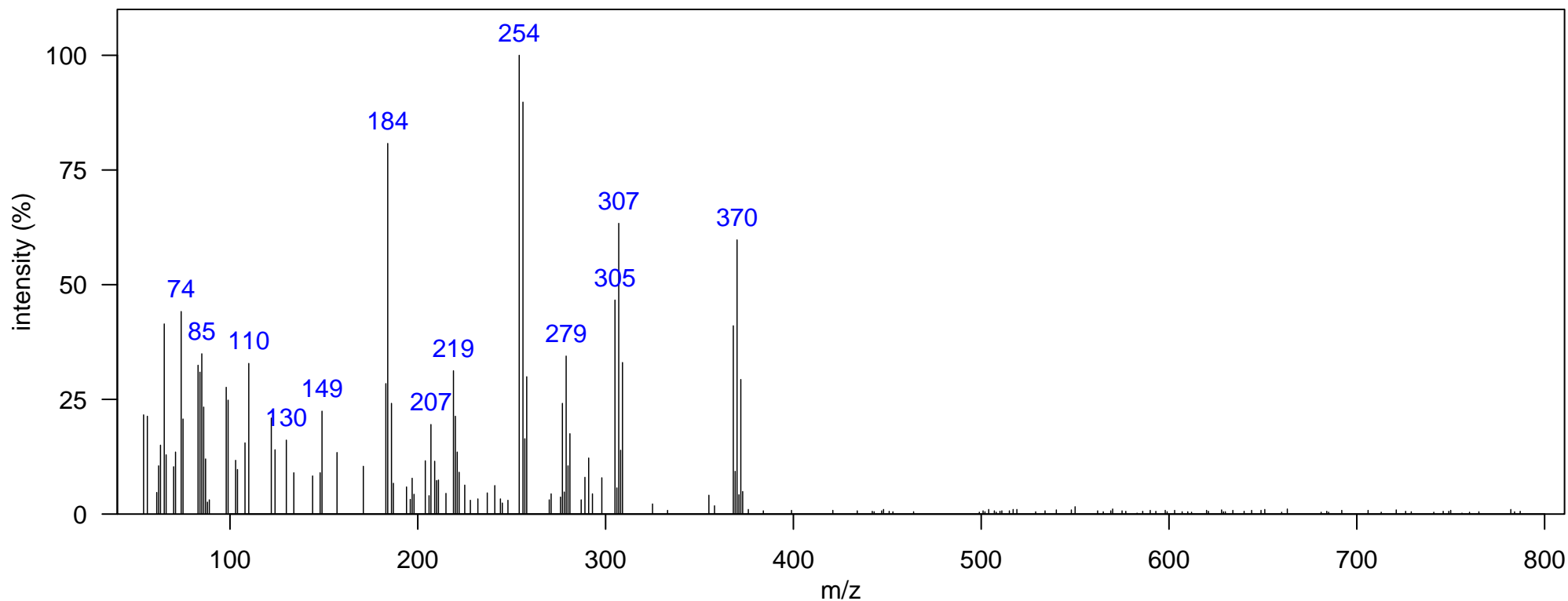
Source: unknown

Instrument: GCxGC-TOF, EI, 70 eV

Atlantic Lib:

Identification:

Comment: sharing common m/z ions and the pattern



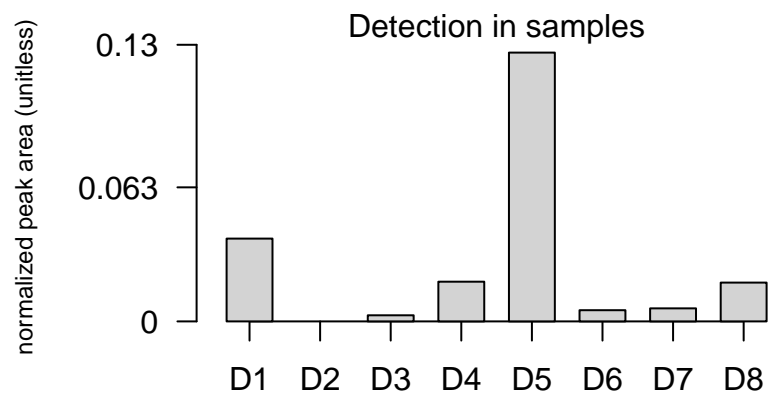
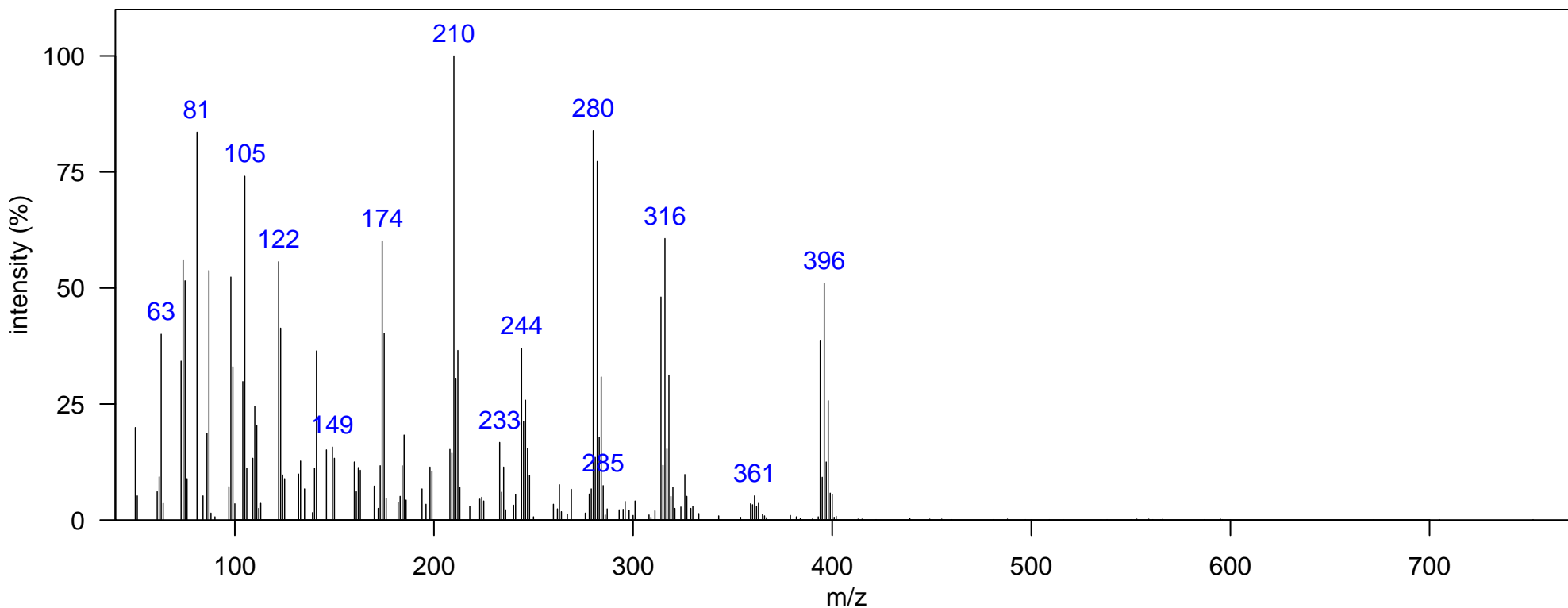
m/z [Fragment]

Class: Unknown-7

Elemental Formula:

Source: unknown

Identification:

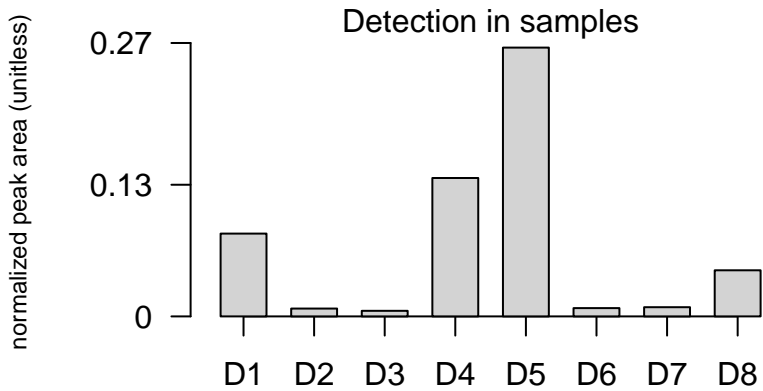
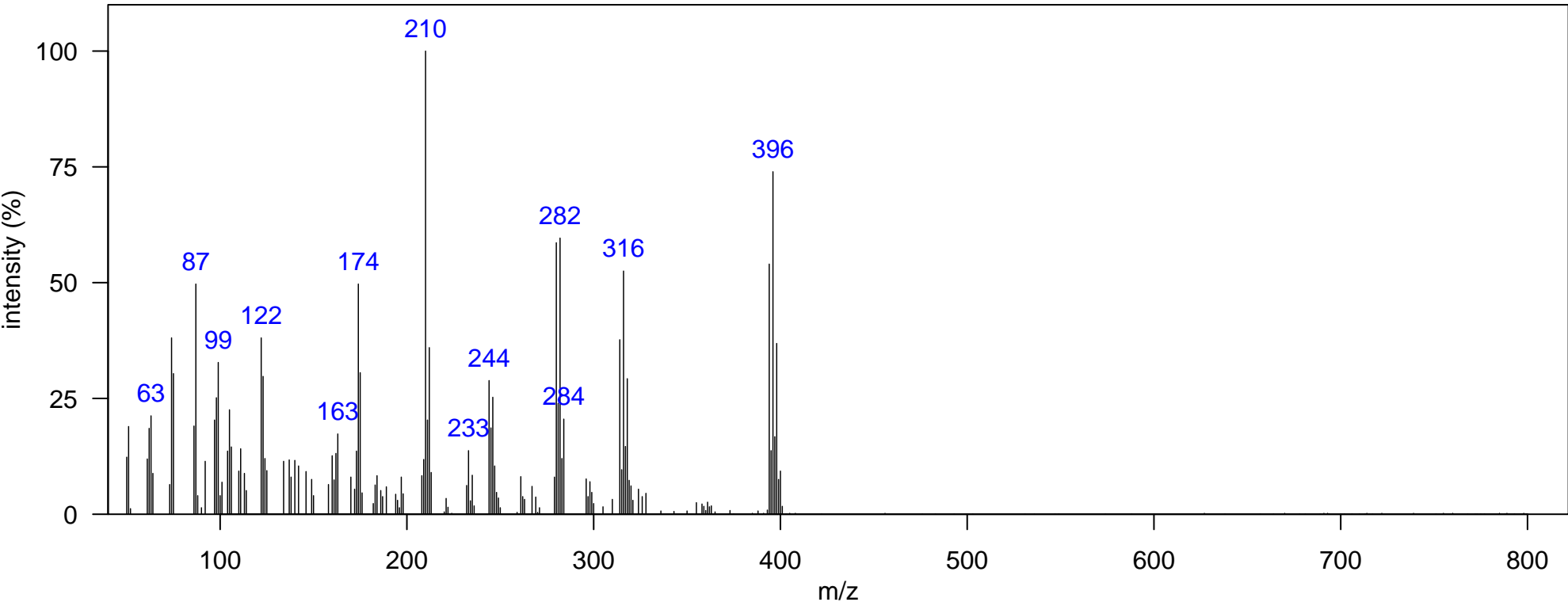


m/z [Fragment]

Sample: SoCal dolphin blubber D1,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: sharing common m/z ions and the pattern

1D RT, 2D RT (s): 1719.36, 2.224  
Quantitative Ion m/z: 396  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

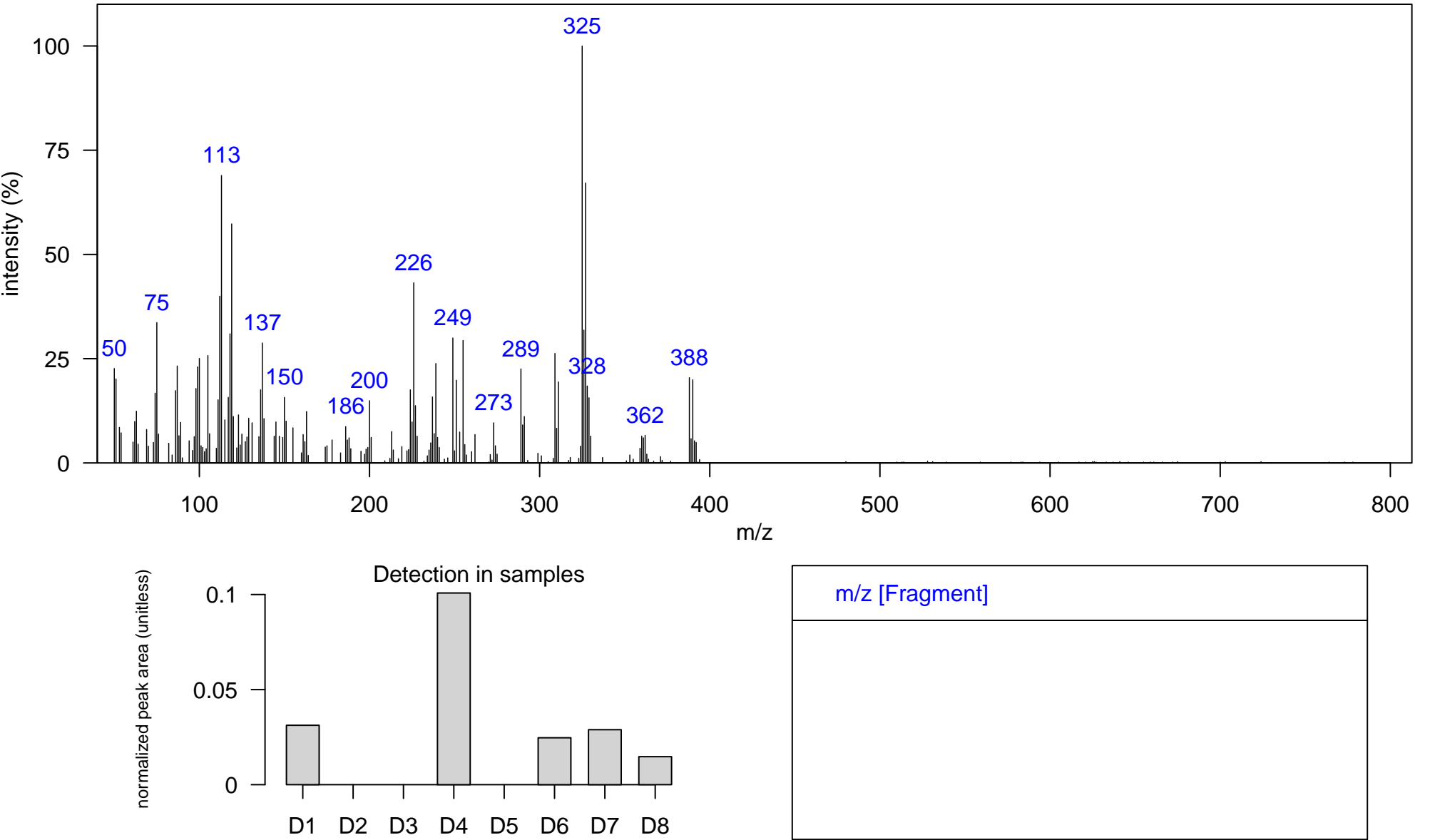


m/z [Fragment]

Sample: SoCal dolphin blubber D4,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment: sharing common m/z ions and the pattern

1D RT, 2D RT (s): 1684.38, 2.343  
Quantitative Ion m/z: 325  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:







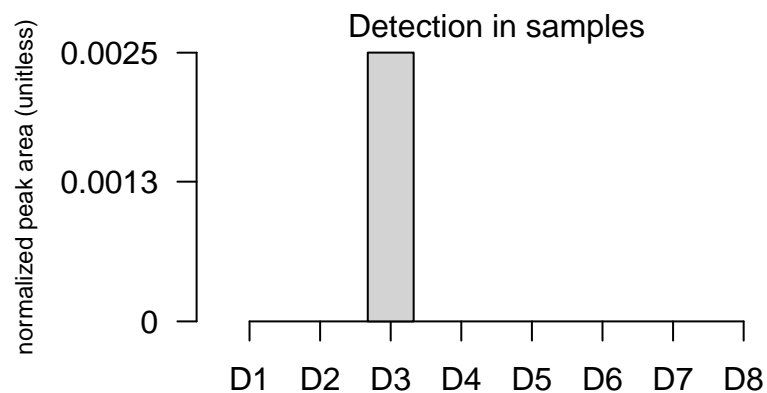
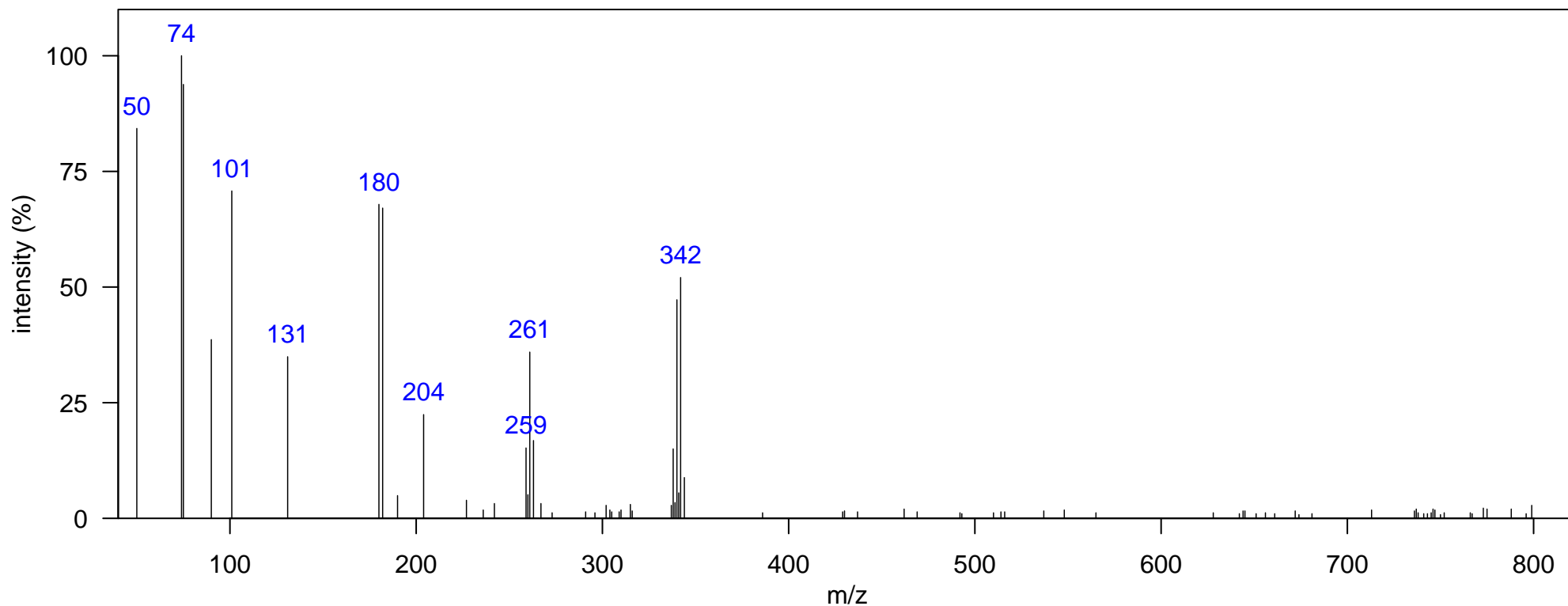
Name: unknown-9

Class: Unknown

Sample: SoCal dolphin blubber D3,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1086.22, 1.162  
Quantitative Ion m/z: 342  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

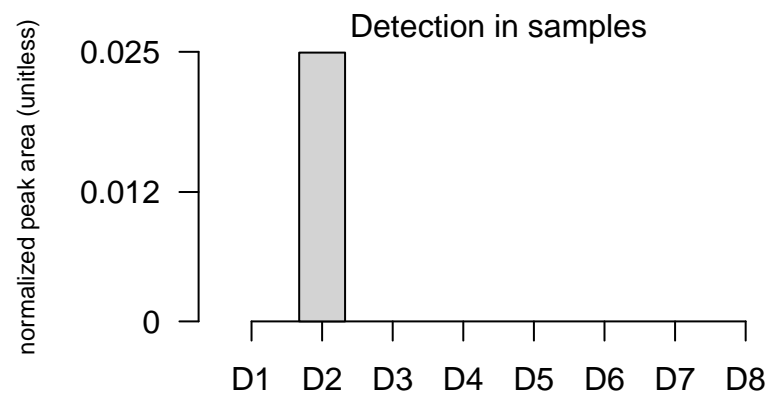


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1089.72, 1.181  
Quantitative Ion m/z: 222  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

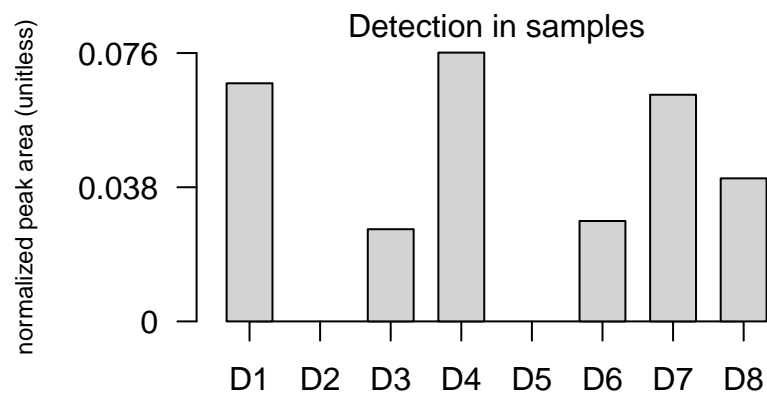
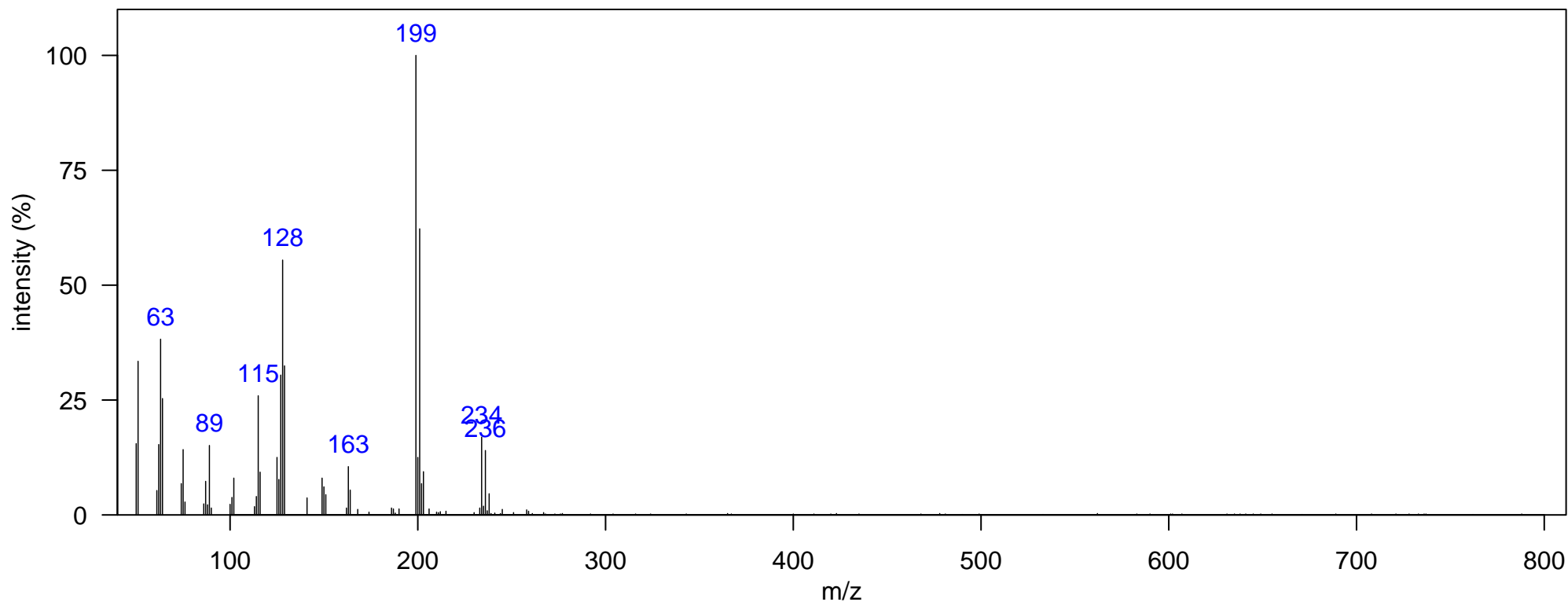


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1138.69, 1.208  
Quantitative Ion m/z: 199  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

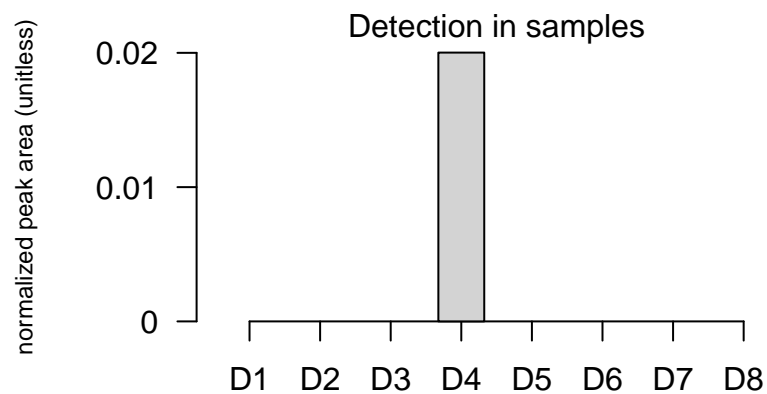
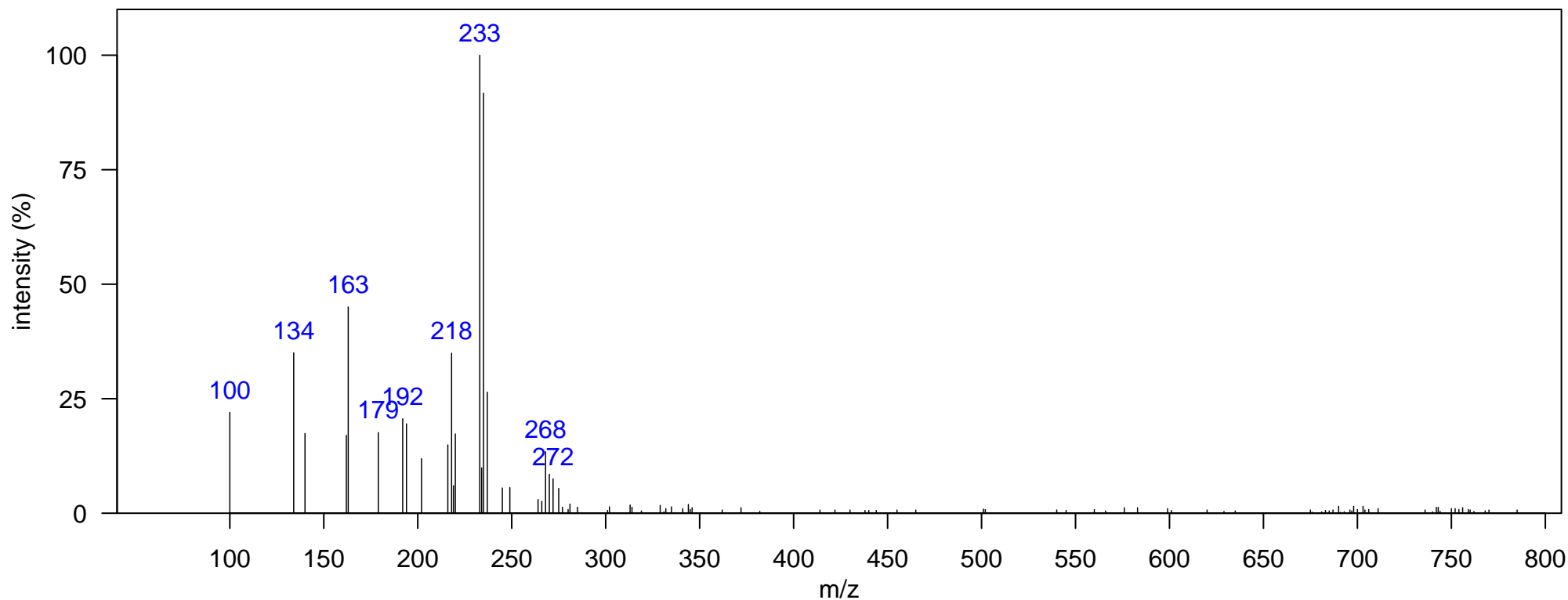
Name: unknown-12

Class: Unknown

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

1D RT, 2D RT (s): 1194.66, 1.261  
Quantitative Ion m/z: 233  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

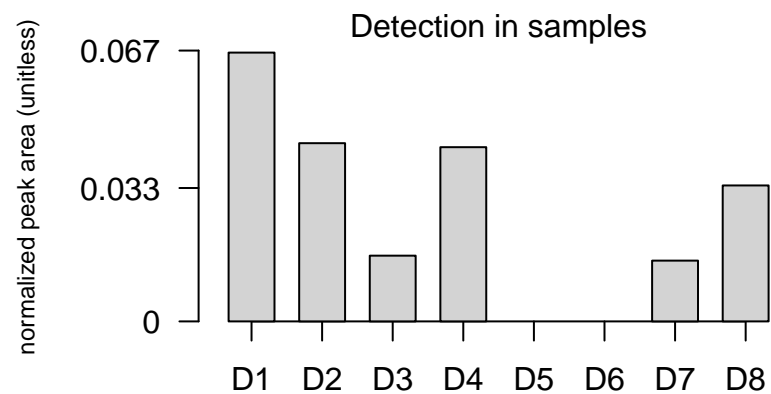
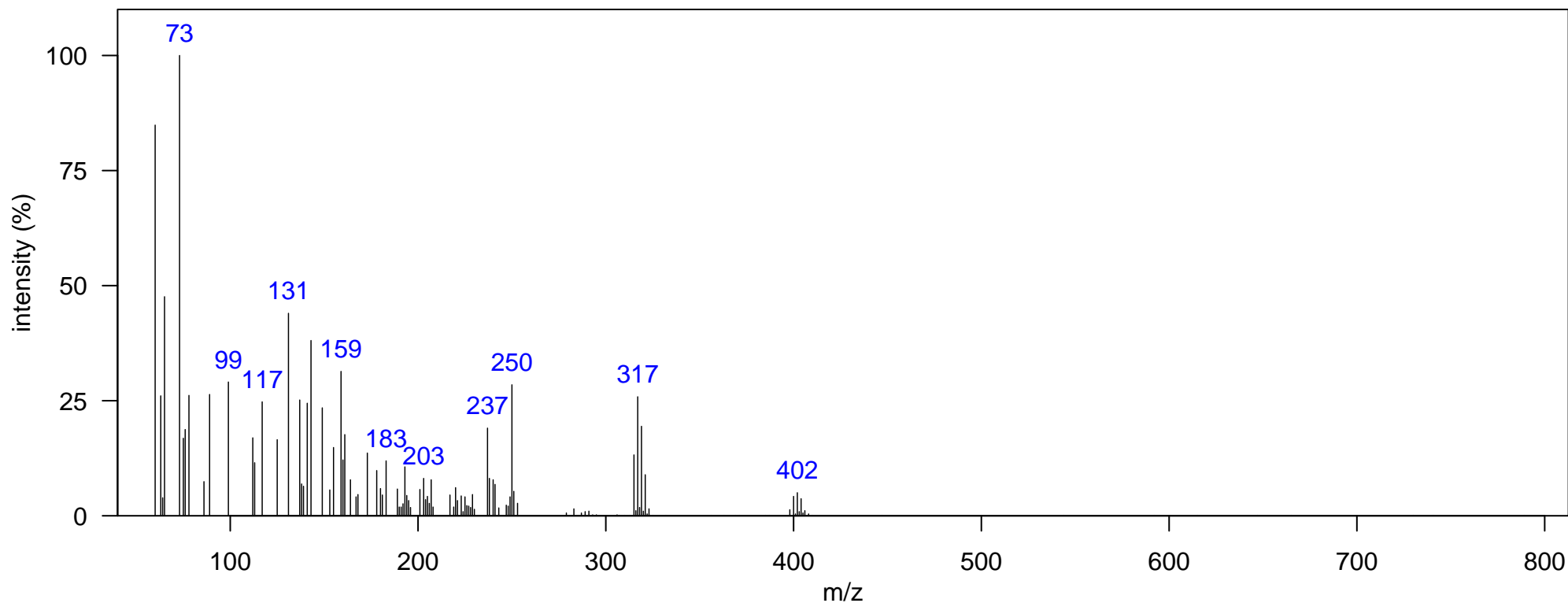


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1219.15, 1.175  
Quantitative Ion m/z: 317  
Atlantic Lib: unknown 8

Elemental Formula:  
Source: unknown  
Identification:

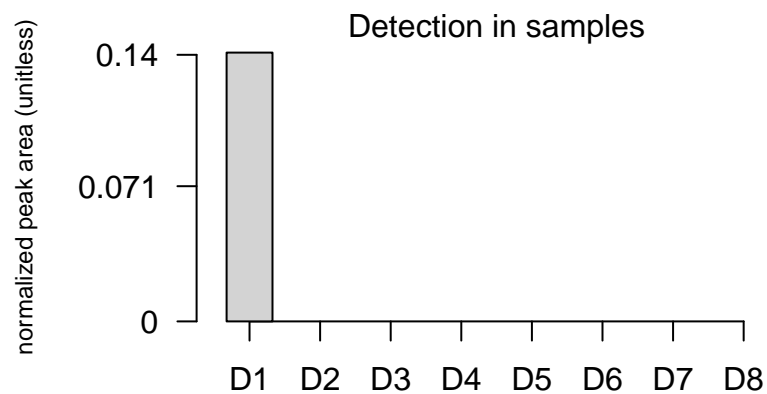
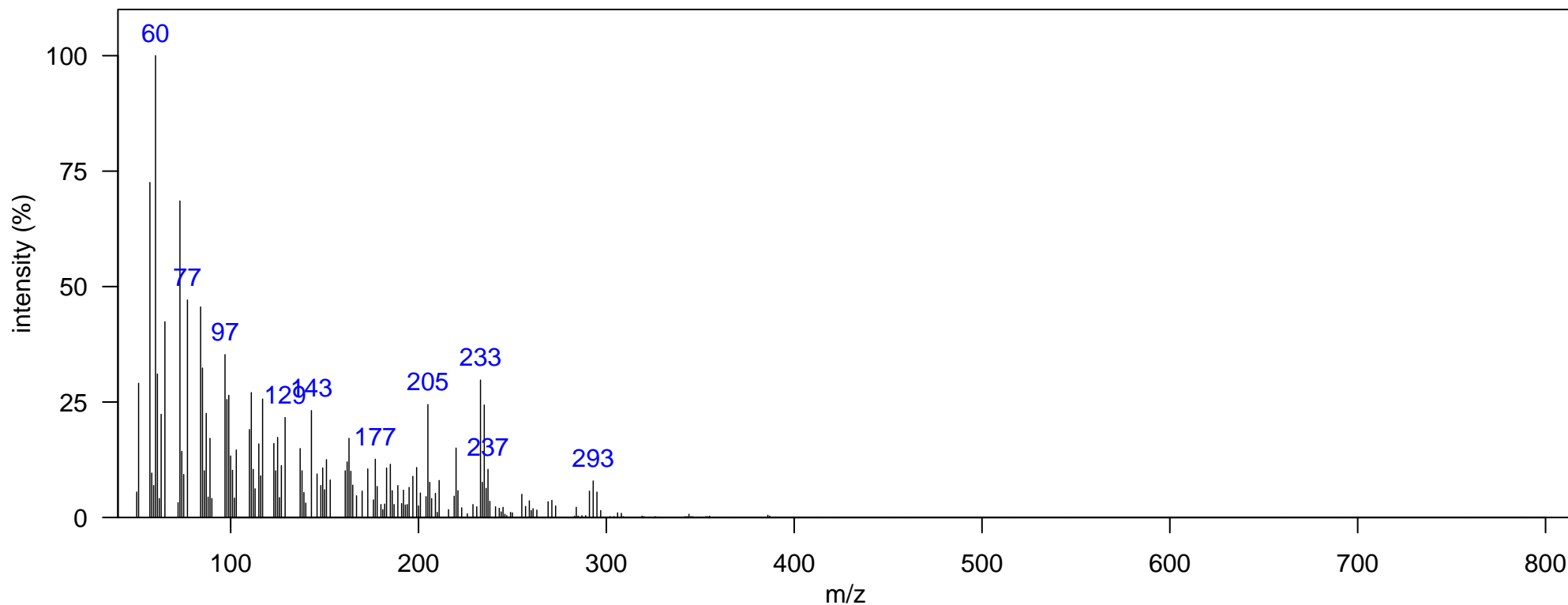


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1275.11, 1.261  
Quantitative Ion m/z: 233  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

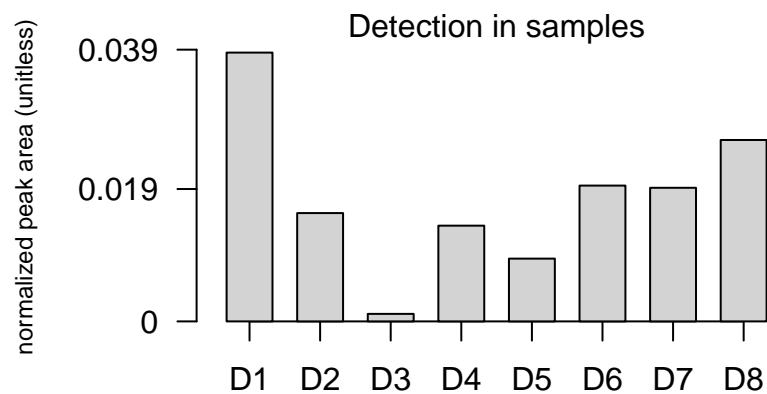
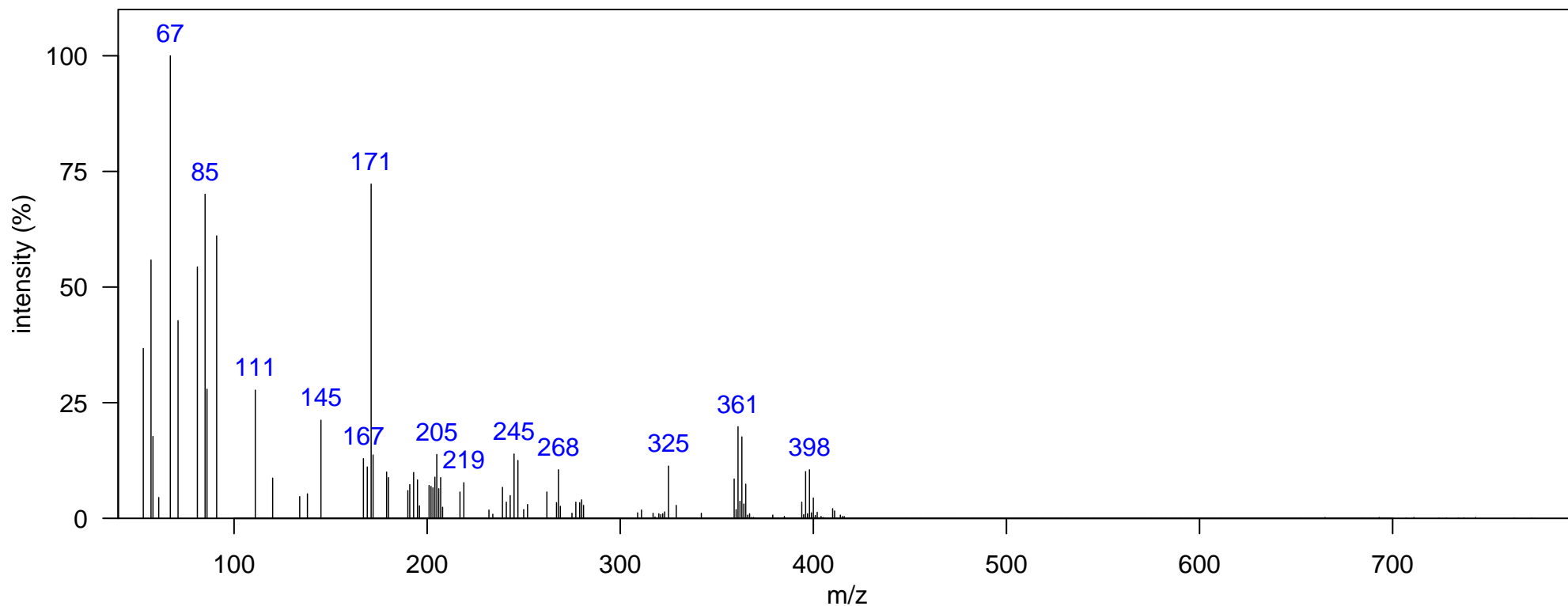


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1292.6, 1.228  
Quantitative Ion m/z: 361  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

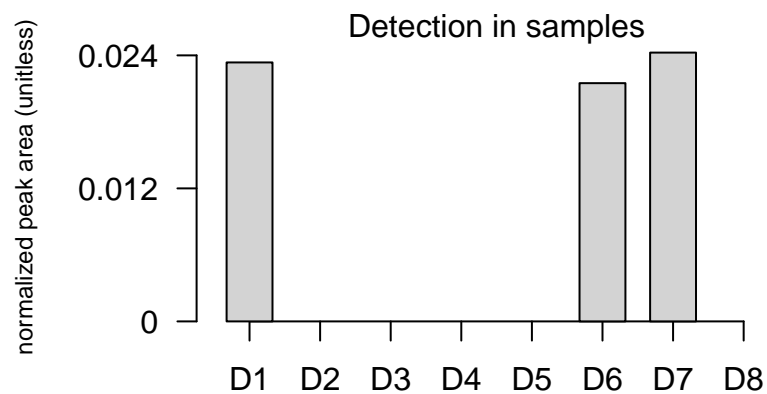
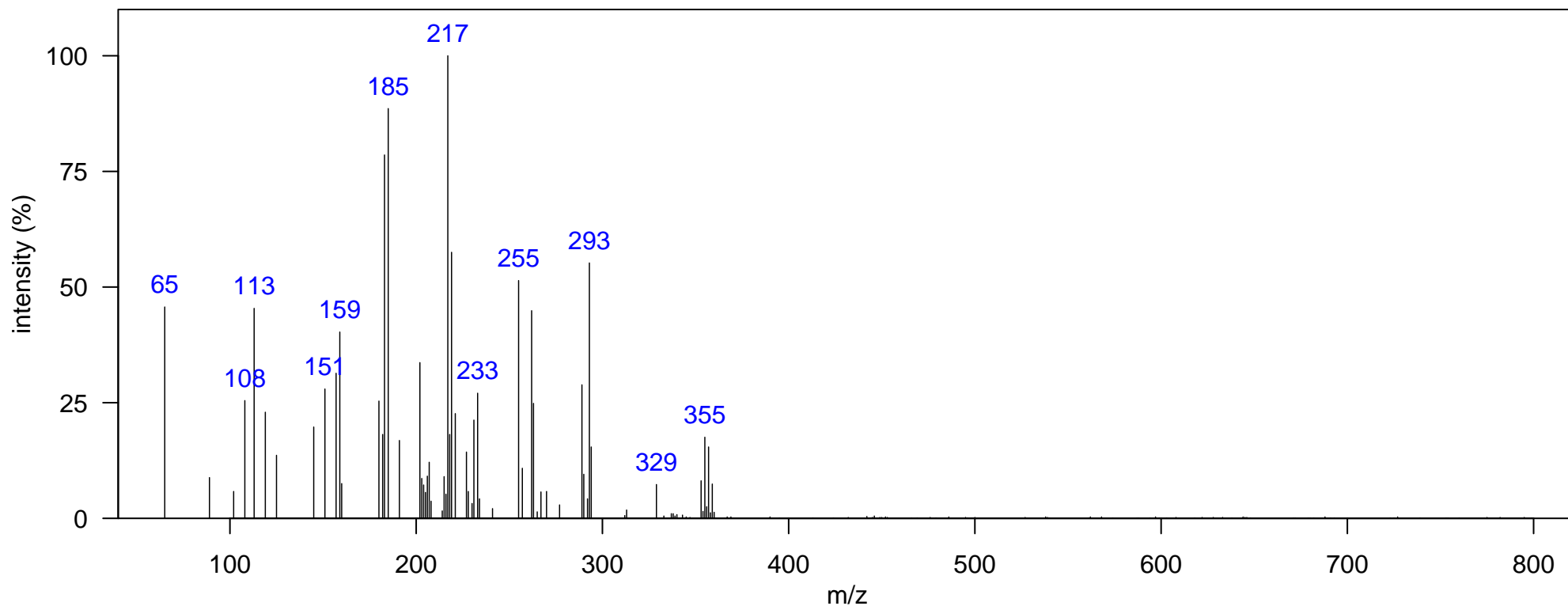


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1317.09, 1.267  
Quantitative Ion m/z: 355  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



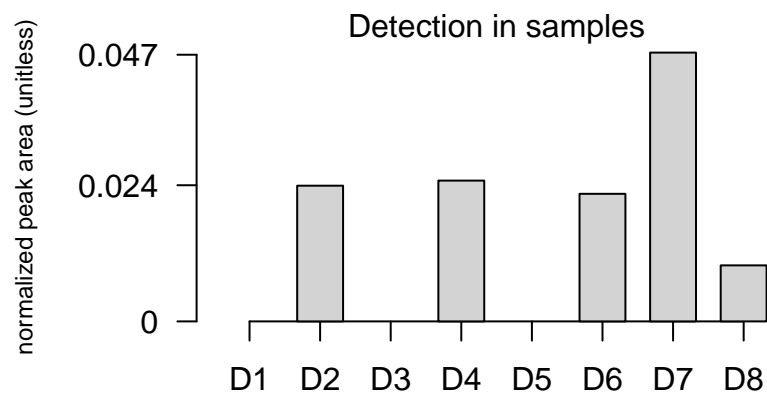
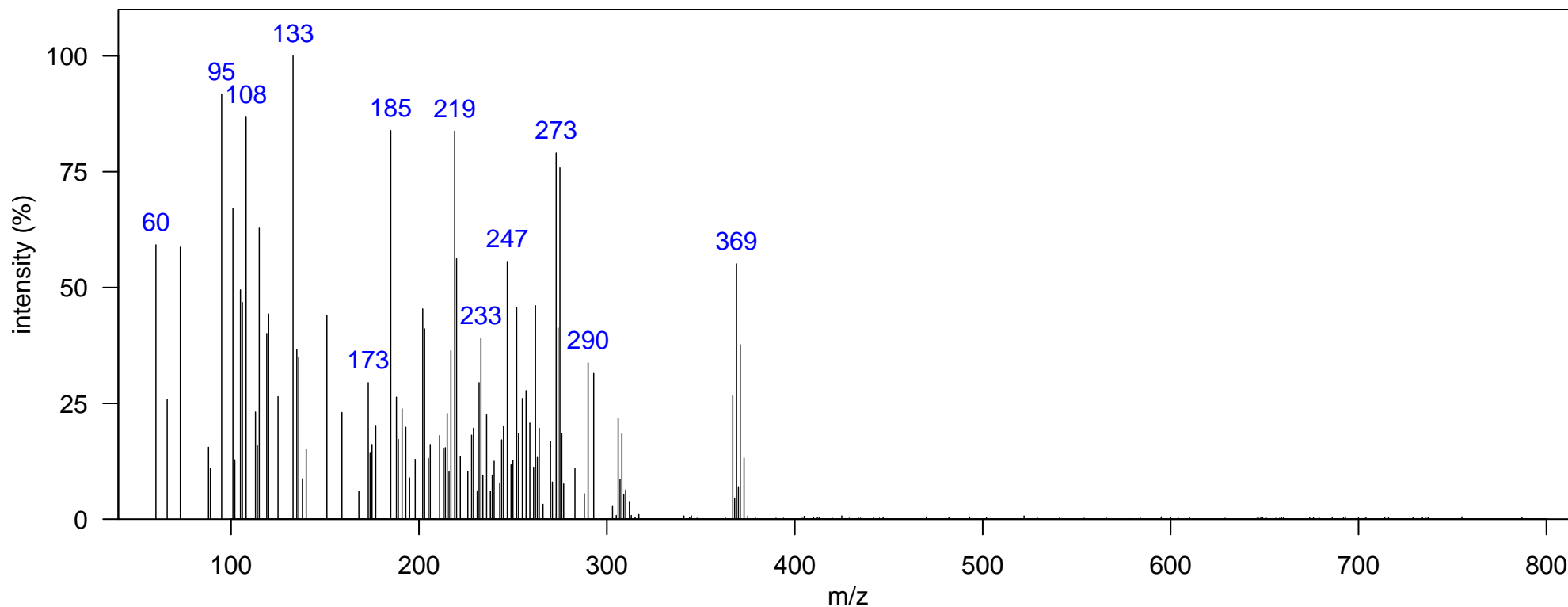
m/z [Fragment]



Class: Unknown

1D RT, 2D RT (s): 1320.59, 1.261  
Quantitative Ion m/z: 369  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

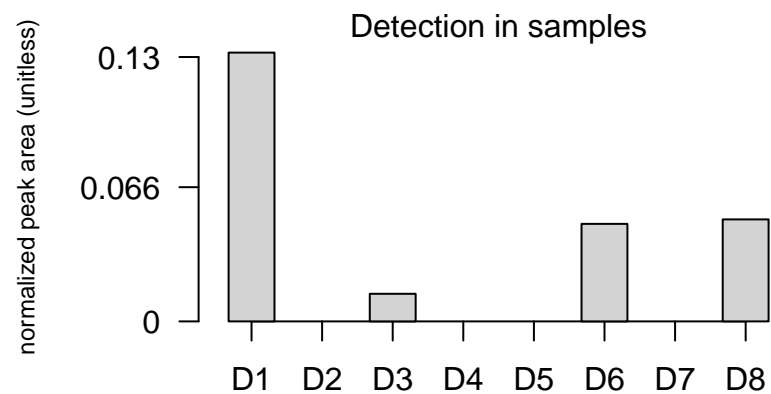
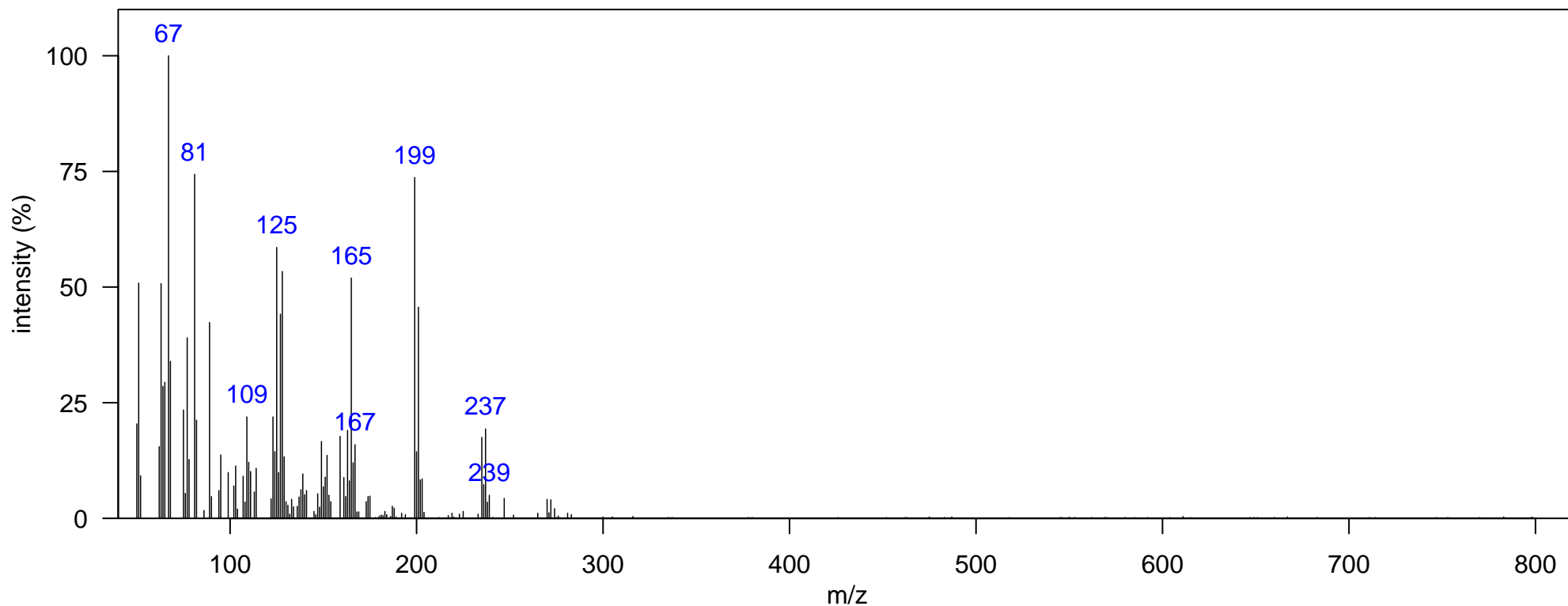


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1401.04, 0.904  
Quantitative Ion m/z: 199  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

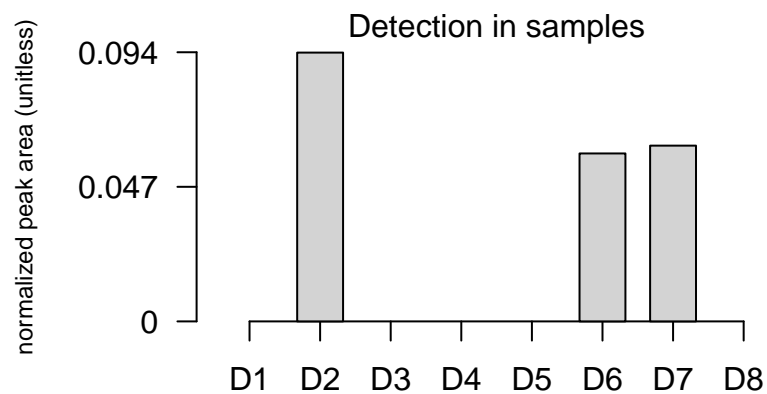
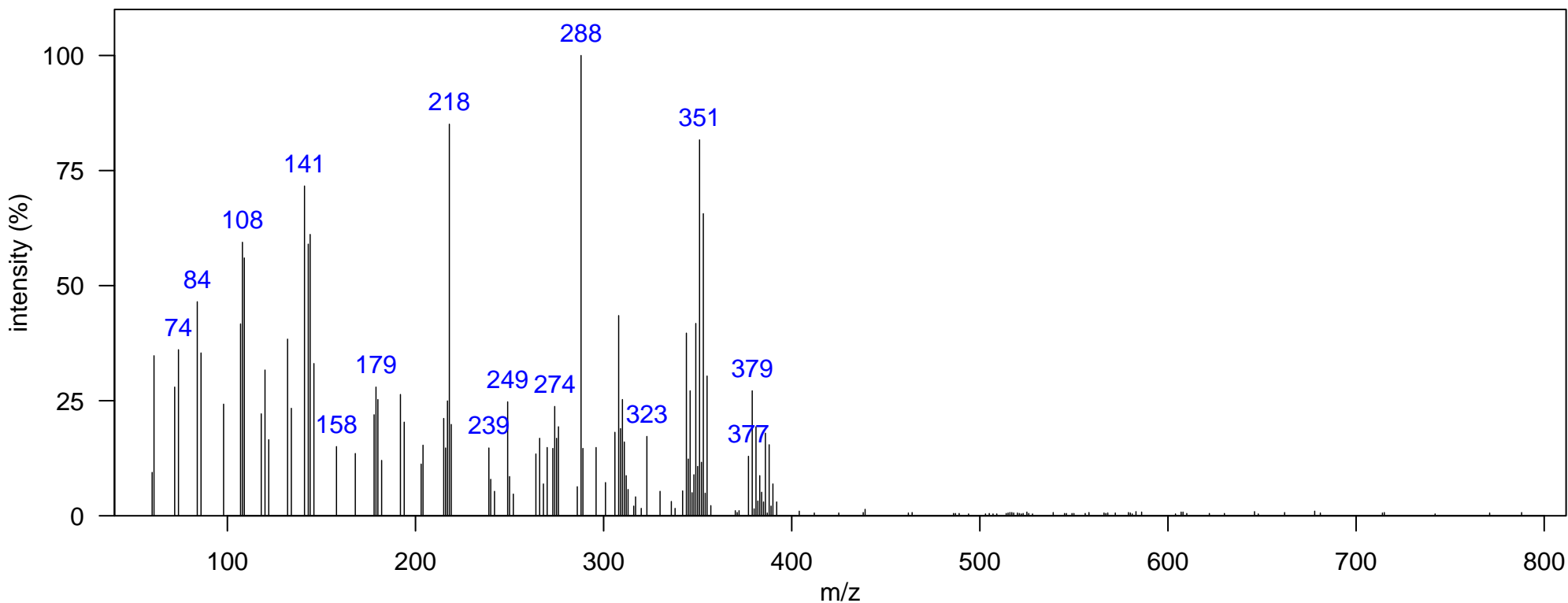


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1397.54, 1.333  
Quantitative Ion m/z: 351  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

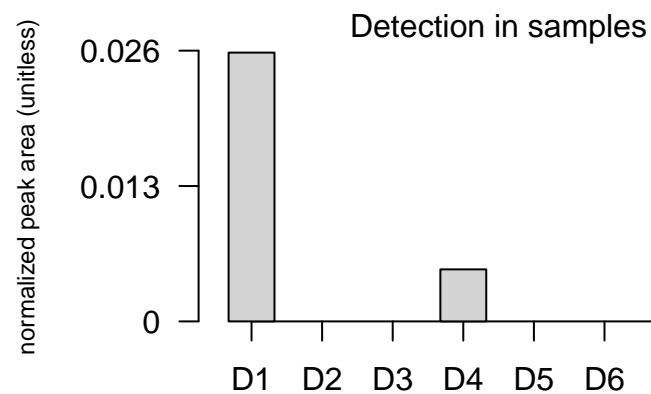
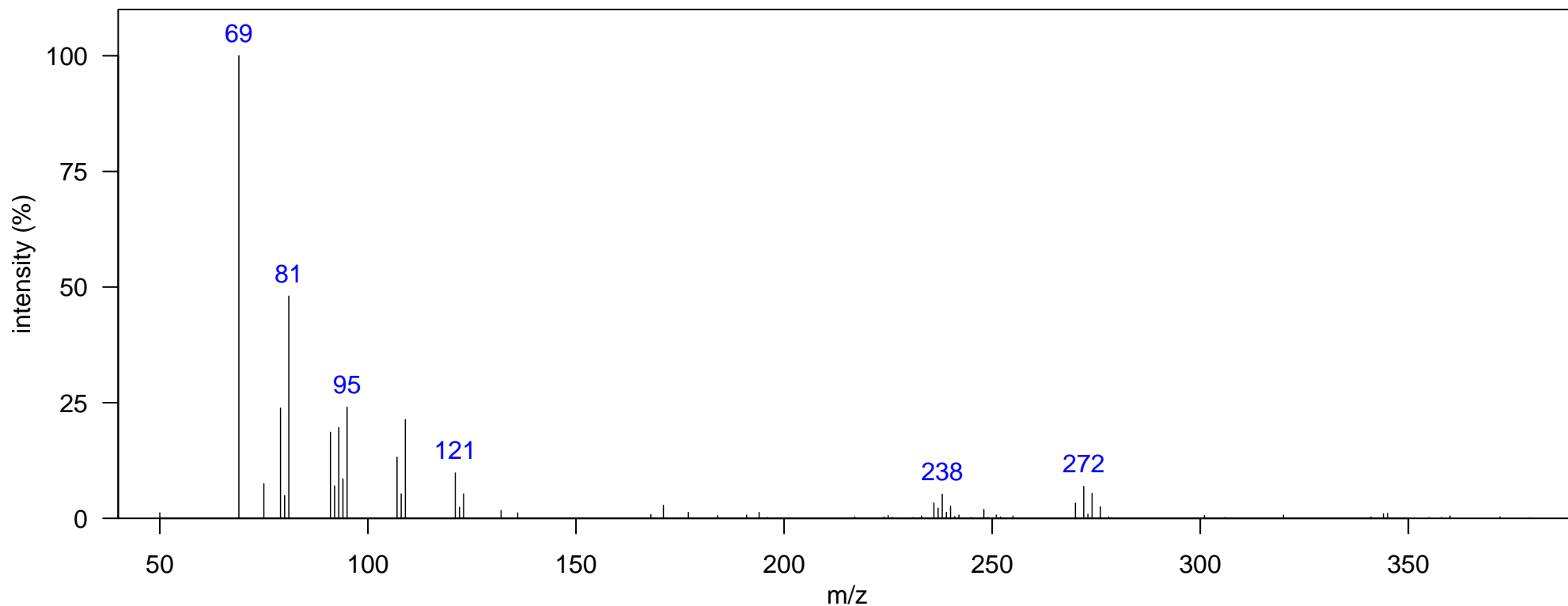
Name: unknown-20

Class: Unknown

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

1D RT, 2D RT (s): 1425.53, 1.043  
Quantitative Ion m/z: 272  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

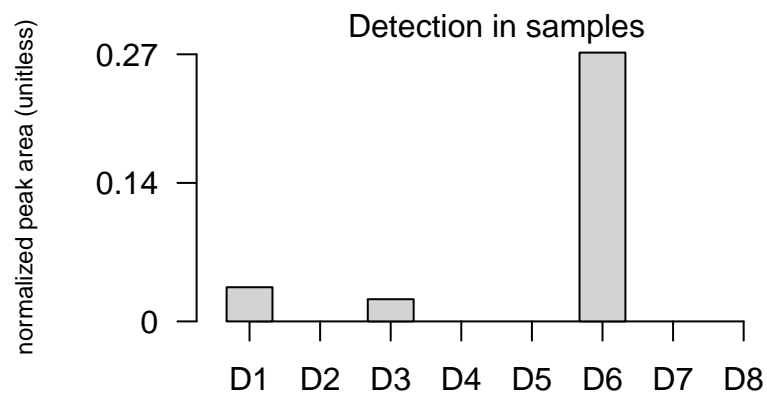


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1467.5, 1.373  
Quantitative Ion m/z: 348  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

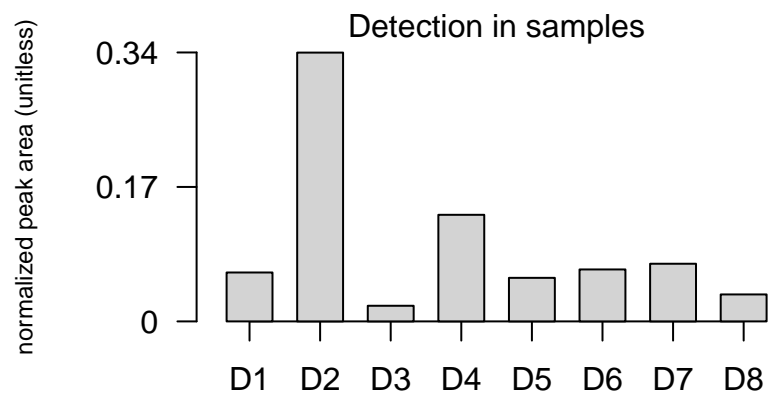
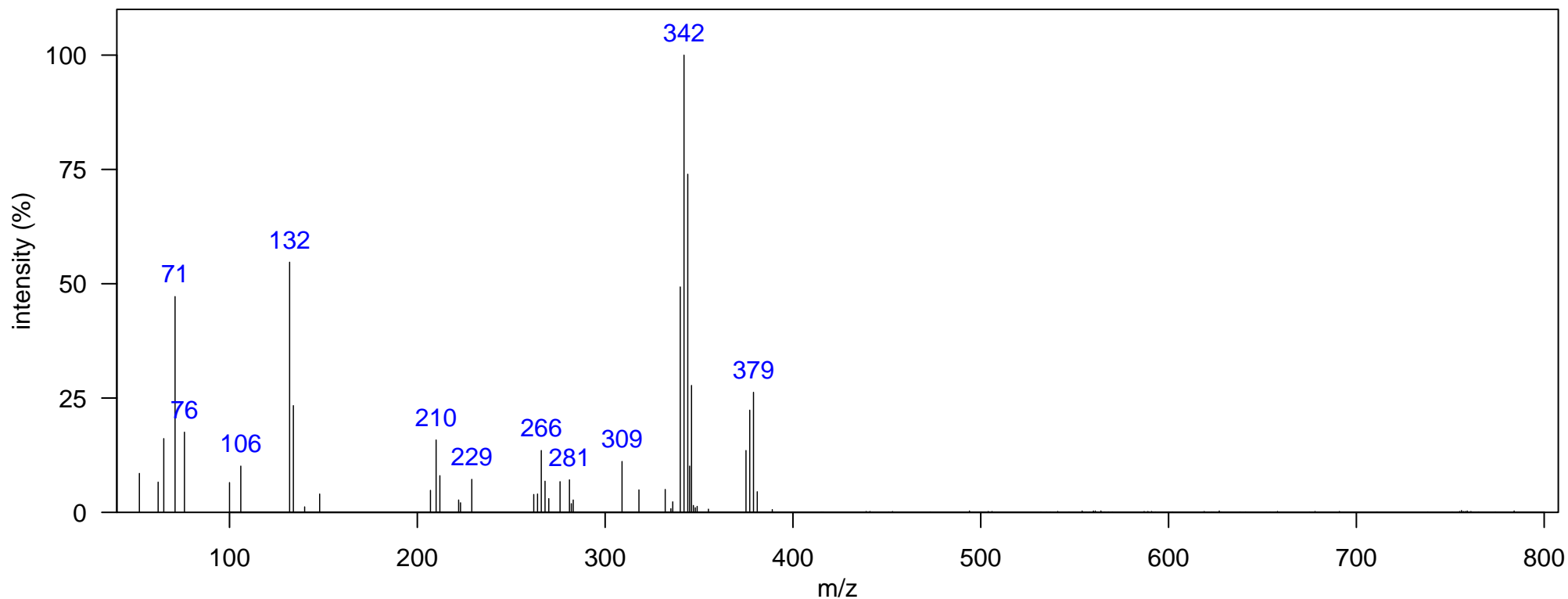
Name: unknown-22

Class: Unknown

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

1D RT, 2D RT (s): 1471, 1.406  
Quantitative Ion m/z: 342  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

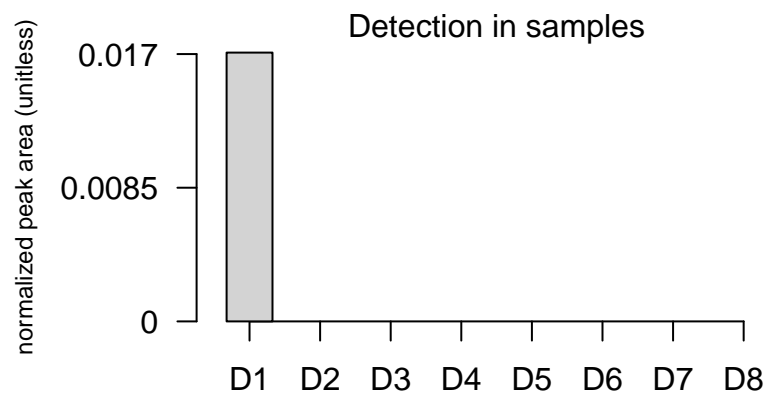
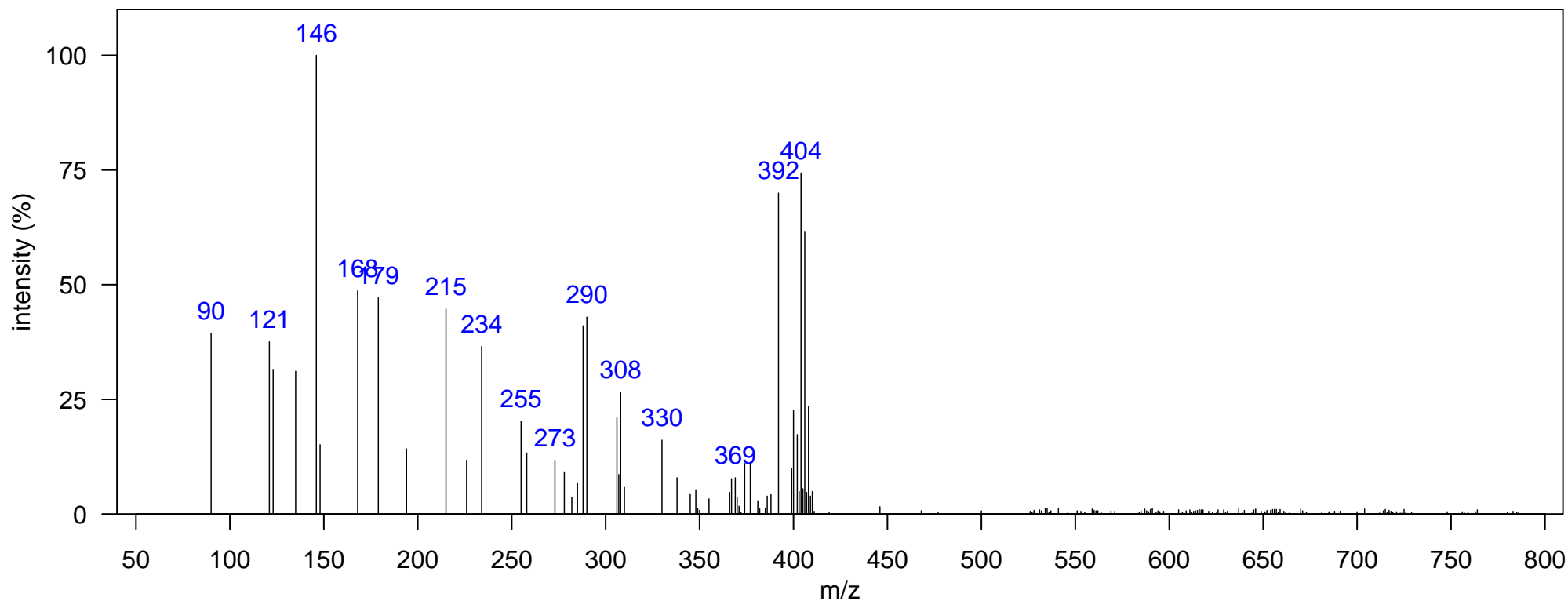


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1471, 1.346  
Quantitative Ion m/z: 404  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

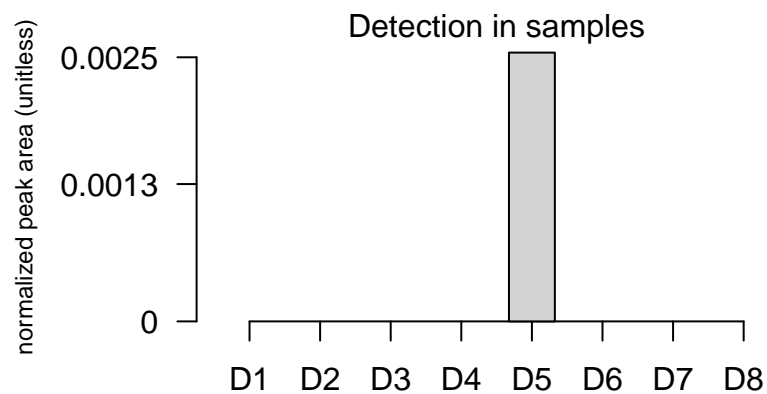
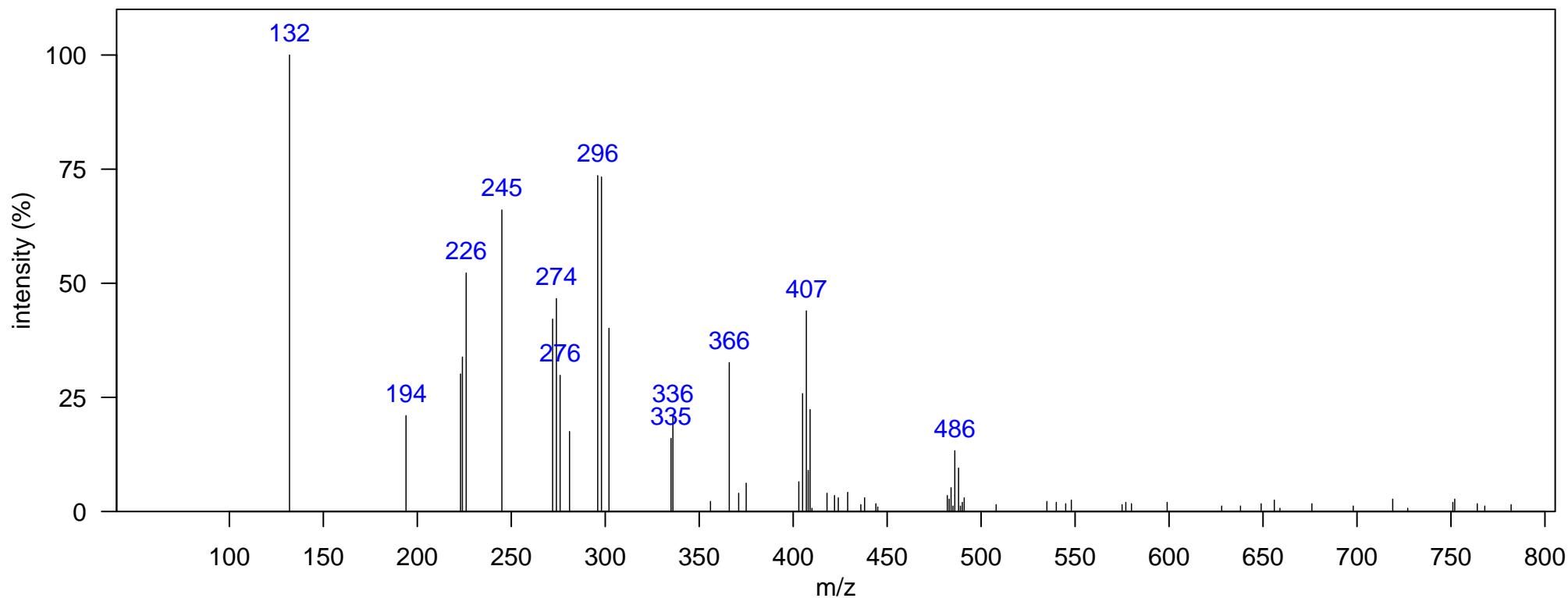


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1484.99, 1.465  
Quantitative Ion m/z: 407  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



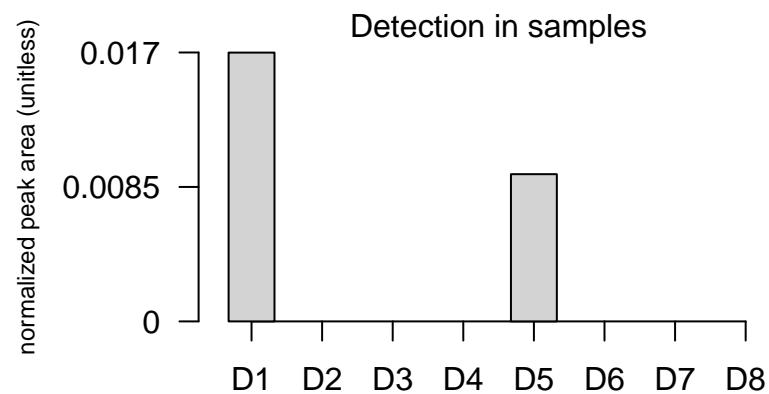
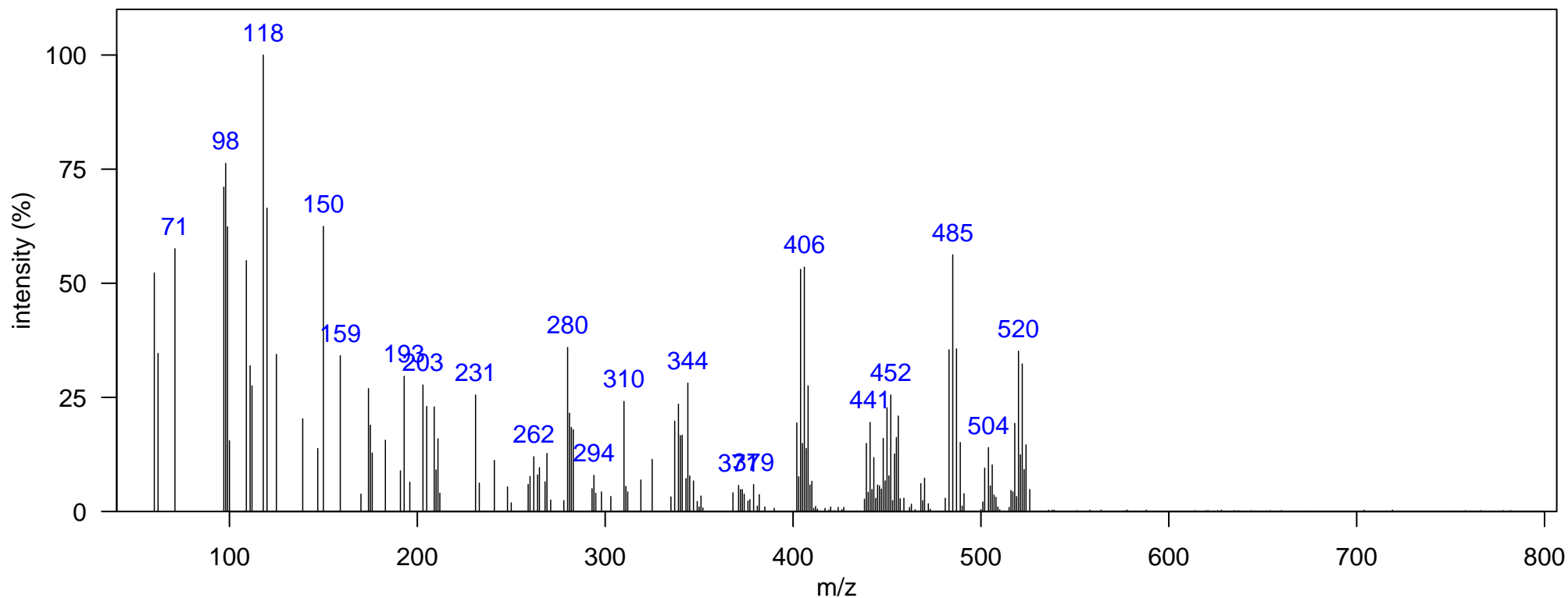
m/z [Fragment]



Class: Unknown

1D RT, 2D RT (s): 1495.49, 1.439  
Quantitative Ion m/z: 520  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

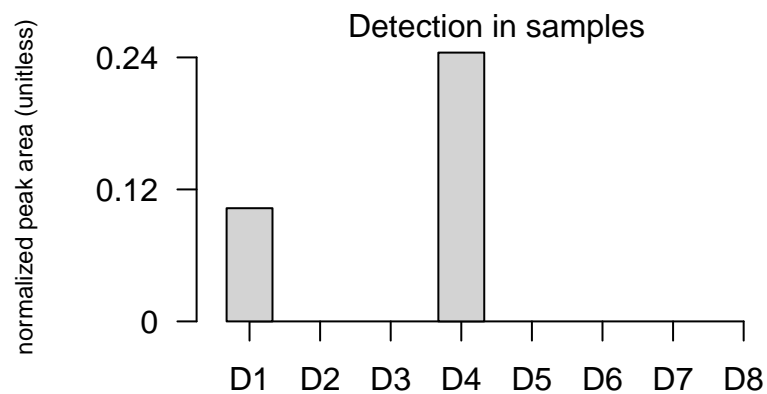
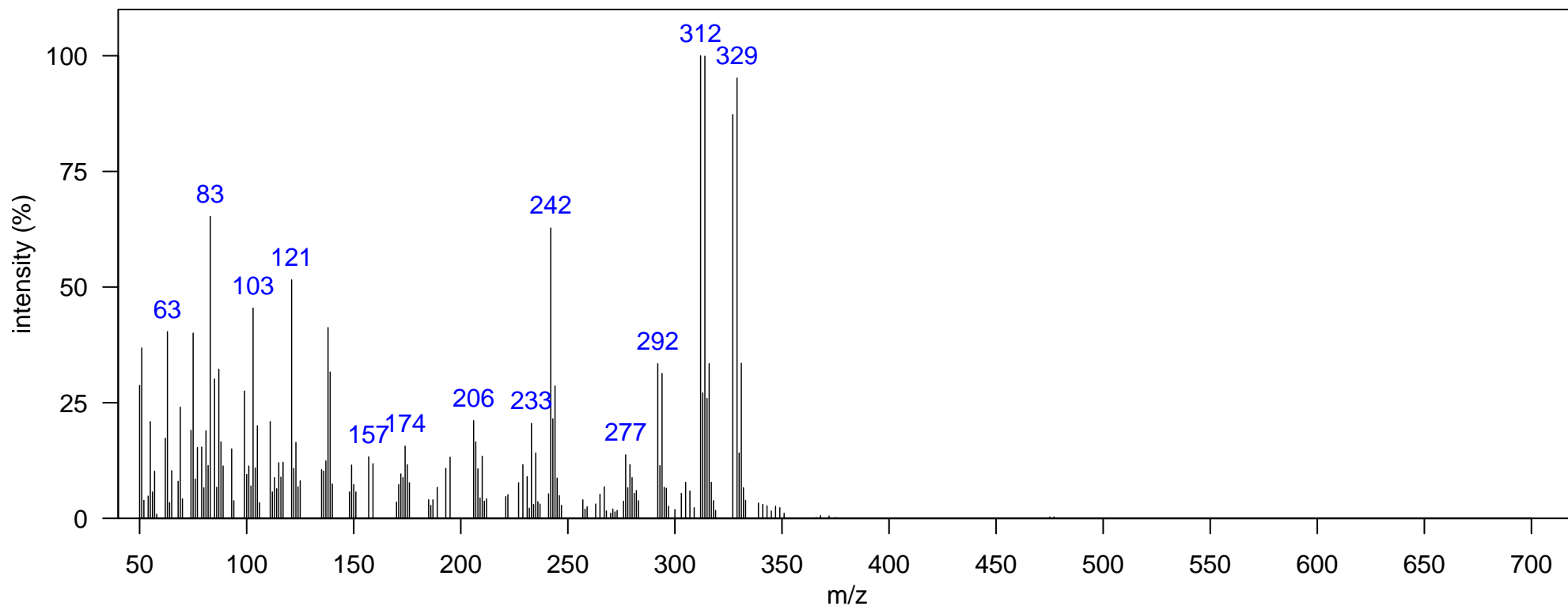
Name: unknown-26

Class: Unknown

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

1D RT, 2D RT (s): 1523.47, 1.492  
Quantitative Ion m/z: 312  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

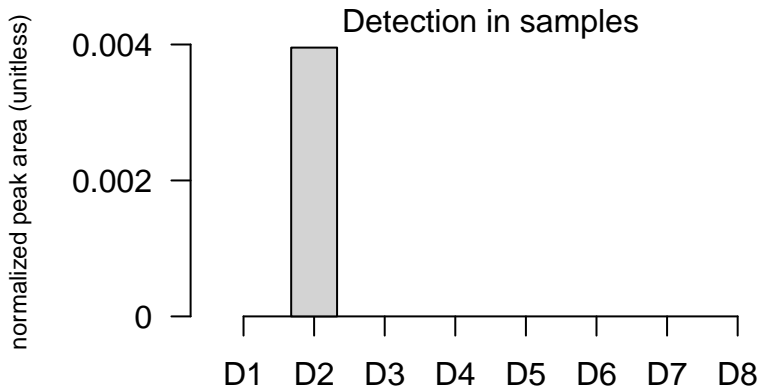
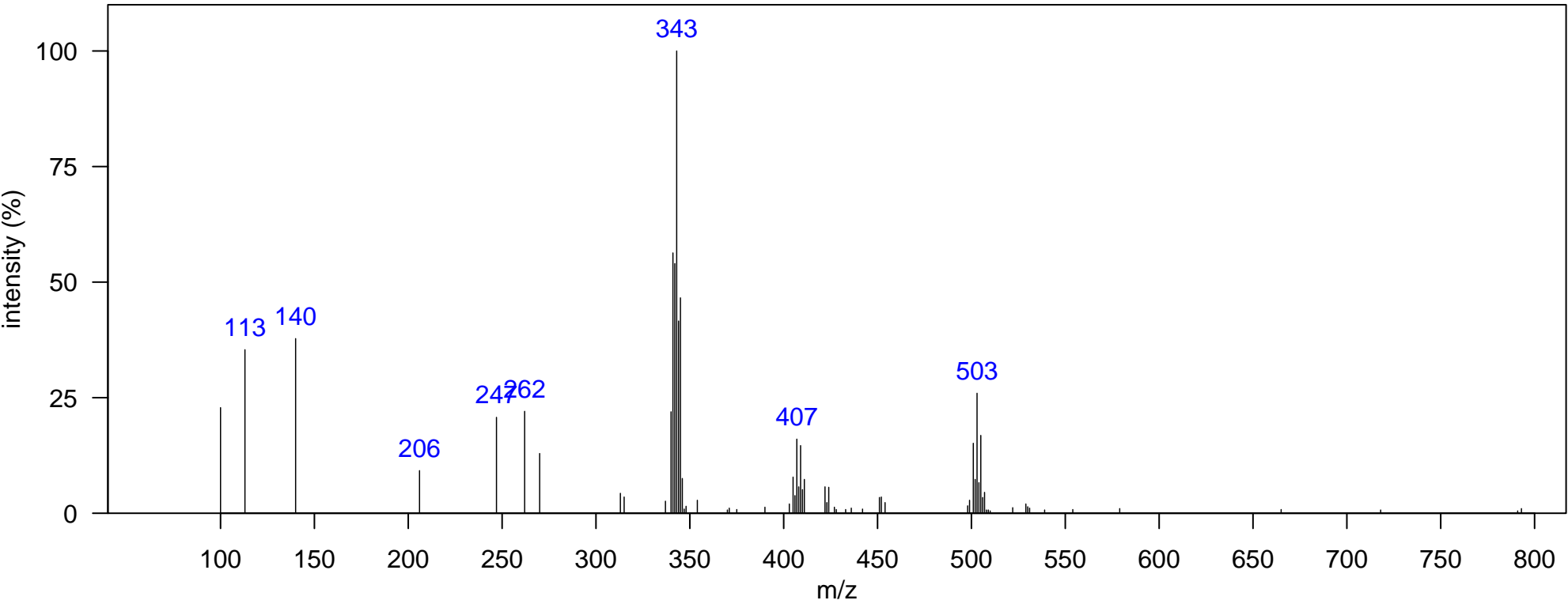
Name: unknown-27

Class: Unknown

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1530.47, 1.657  
Quantitative Ion m/z: 503  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:  
Source: unknown  
Identification:

m/z [Fragment]

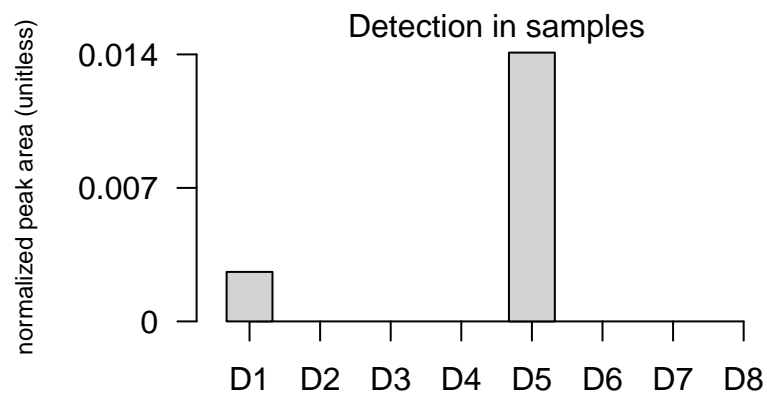
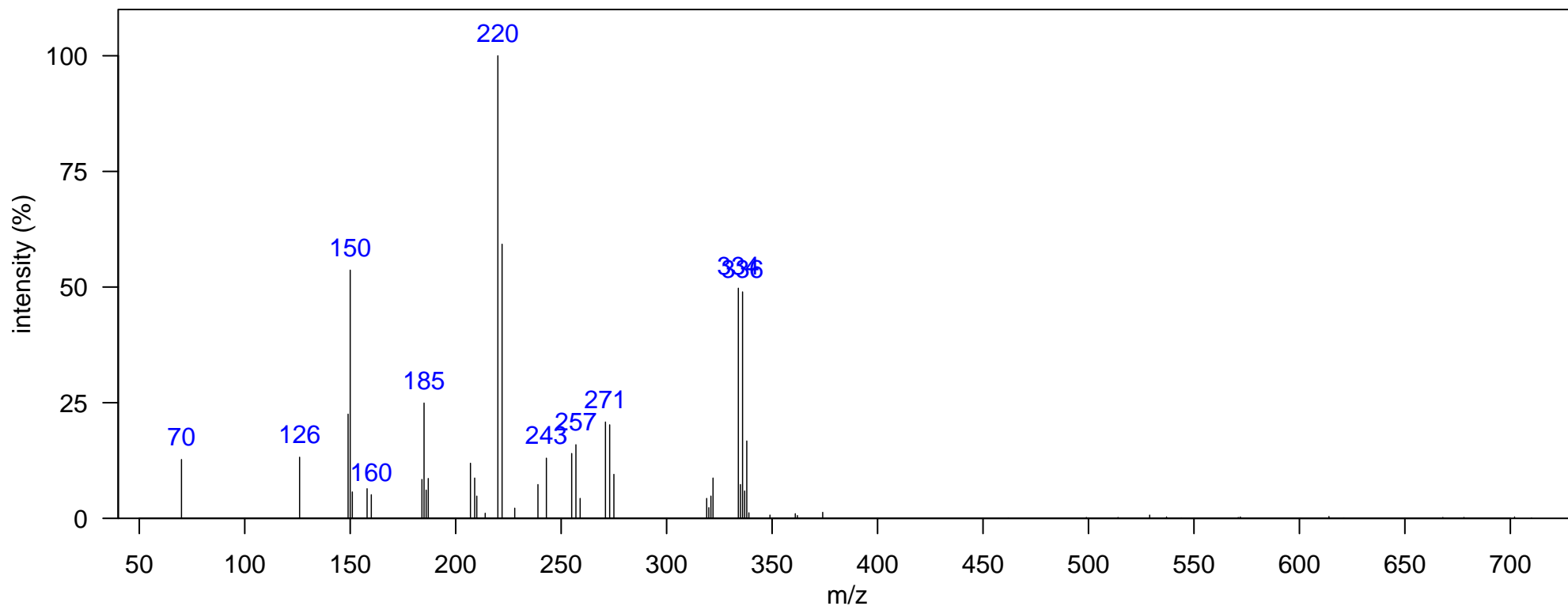
Name: unknown-29

Class: Unknown

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1533.97, 1.683  
Quantitative Ion m/z: 336  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



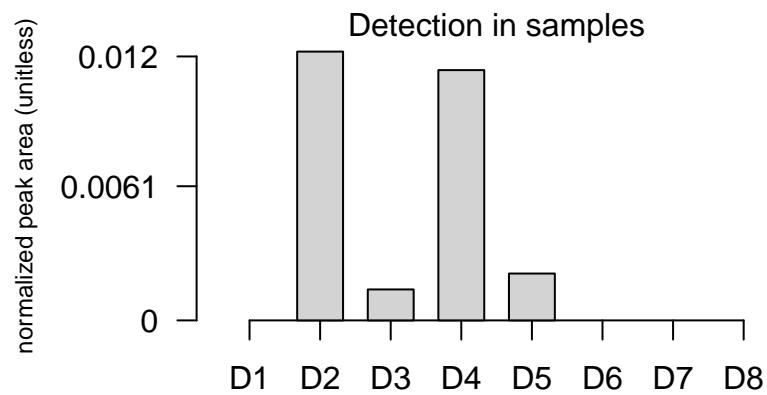
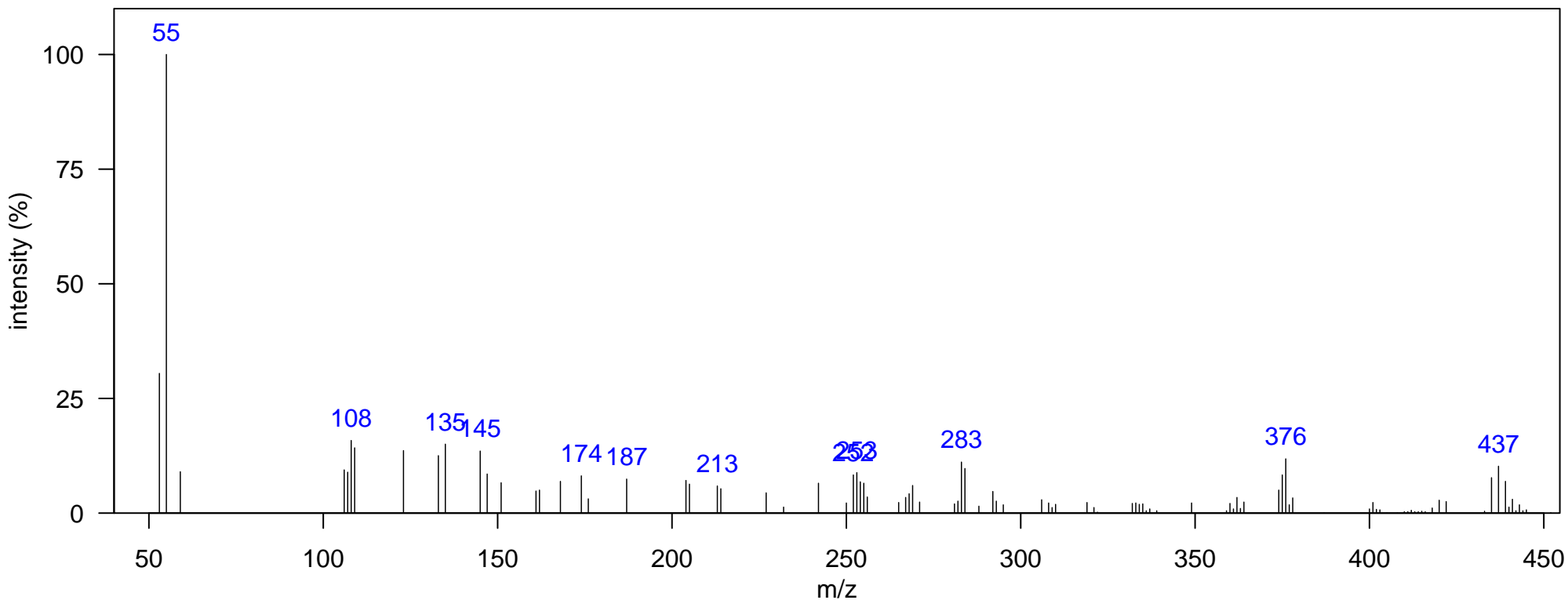
m/z [Fragment]

Elemental Formula: C<sub>11</sub>H<sub>5</sub>Cl<sub>7</sub>N<sub>4</sub>

Source: unknown

Identification:

Sample: SoCal dolphin blubber D2,	1D RT, 2D RT (s): 1540.96, 1.591
Ecotype: offshore	Quantitative Ion m/z: 437
Instrument: GCxGC-TOF, EI, 70 eV	Atlantic Lib:
Comment: NIST ID: 1,3,5-triazine, 2-[(3,4-dichlorophenyl)thio]-4,6-bis(trichloromethyl)-	

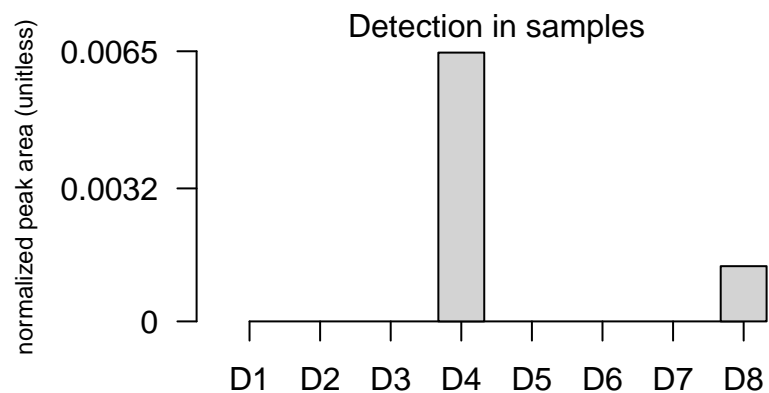


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1544.46, 1.195  
Quantitative Ion m/z: 273  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

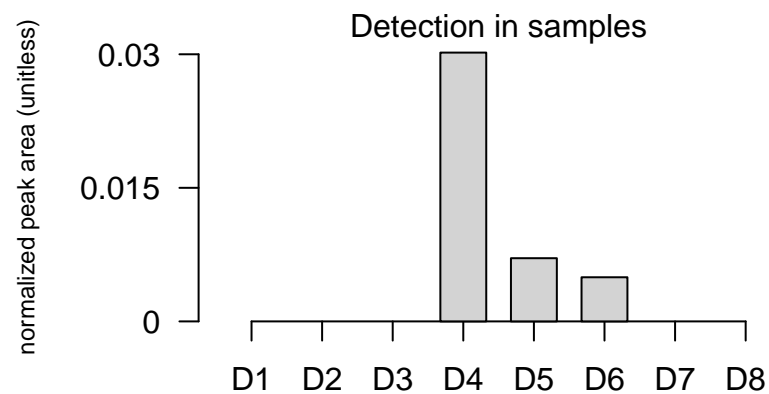


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1544.46, 1.604  
Quantitative Ion m/z: 368  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



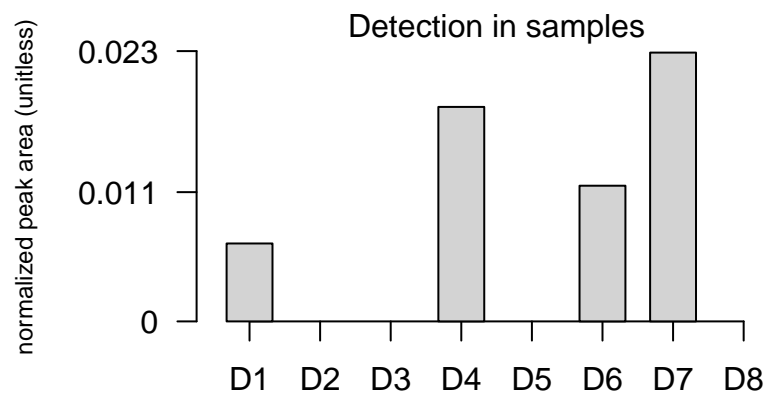
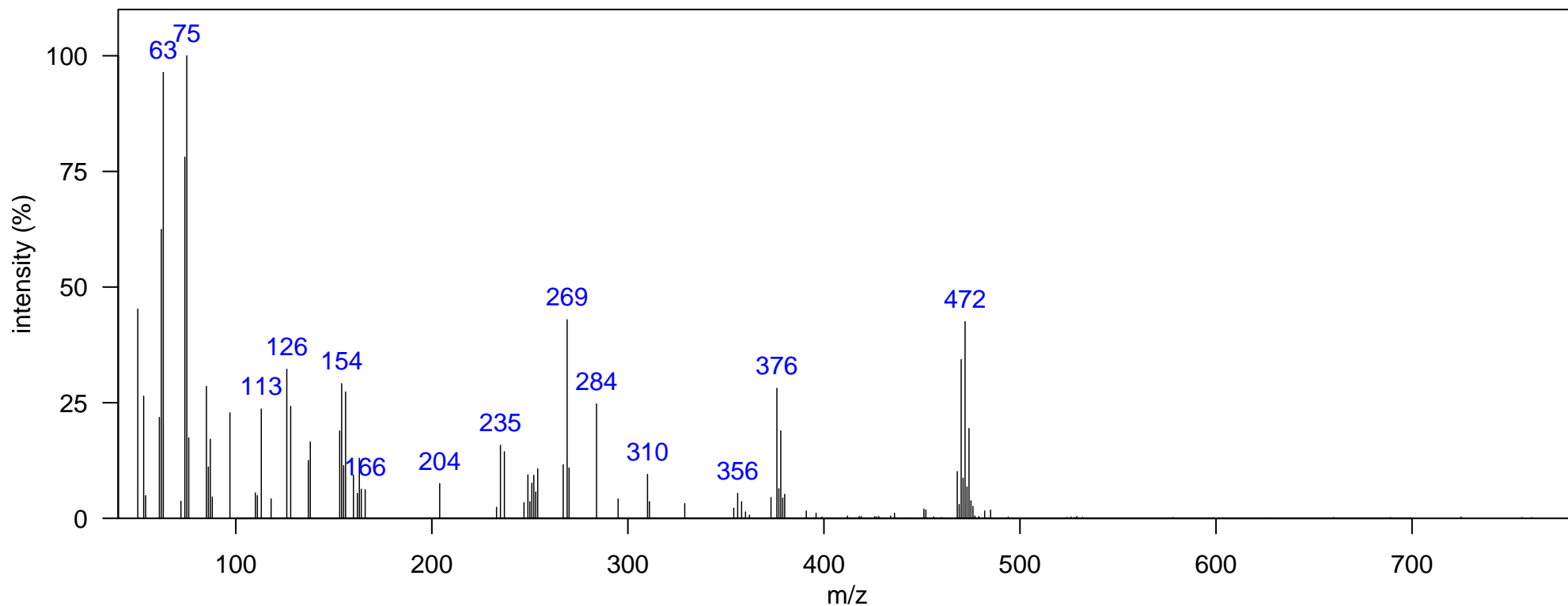
m/z [Fragment]



Class: Unknown

1D RT, 2D RT (s): 1551.46, 1.657  
Quantitative Ion m/z: 472  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

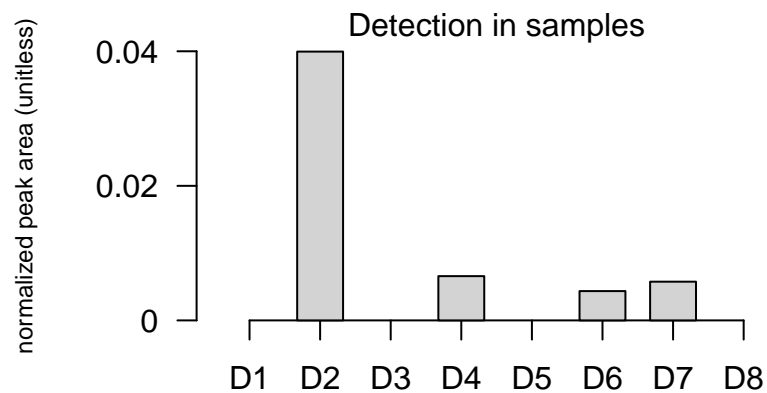


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1551.46, 1.591  
Quantitative Ion m/z: 439  
Atlantic Lib:

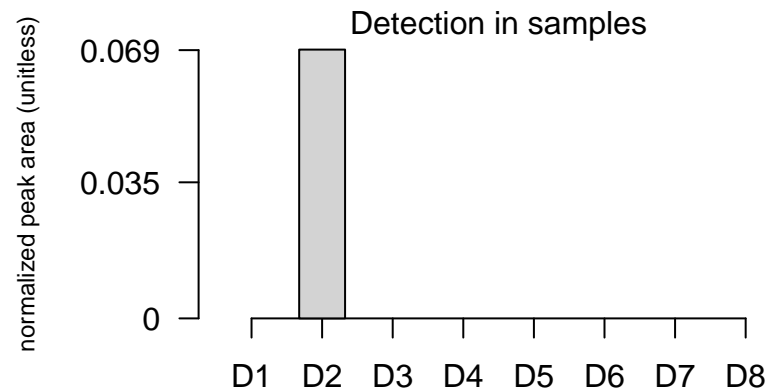
Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:  
Source: unknown  
Identification:

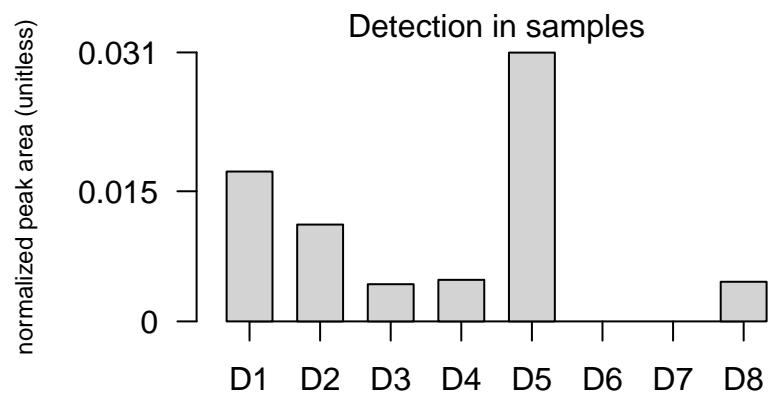
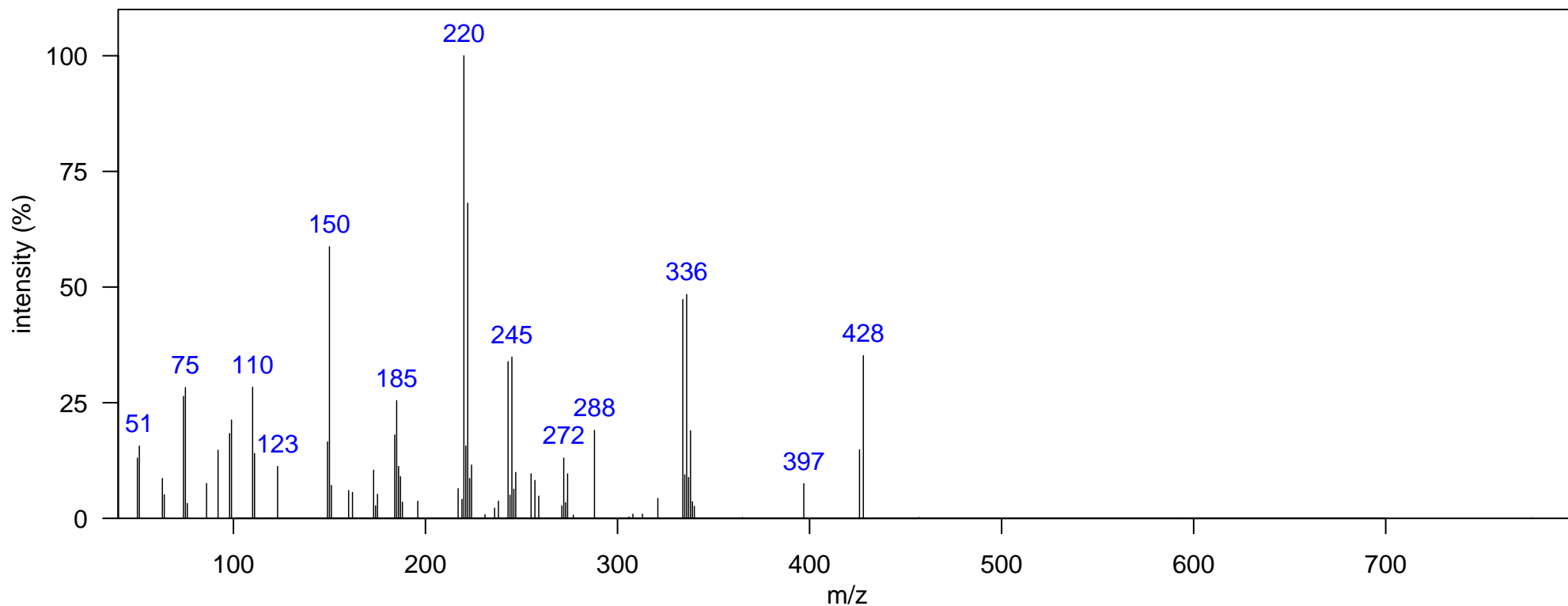


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1572.44, 1.808  
Quantitative Ion m/z: 336  
Atlantic Lib:

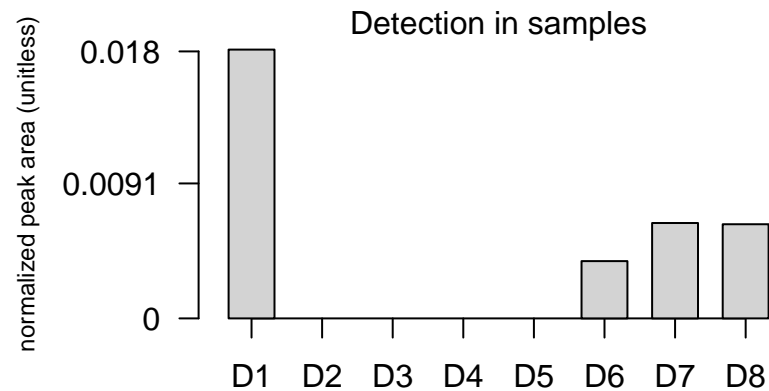
Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Class: Unknown

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

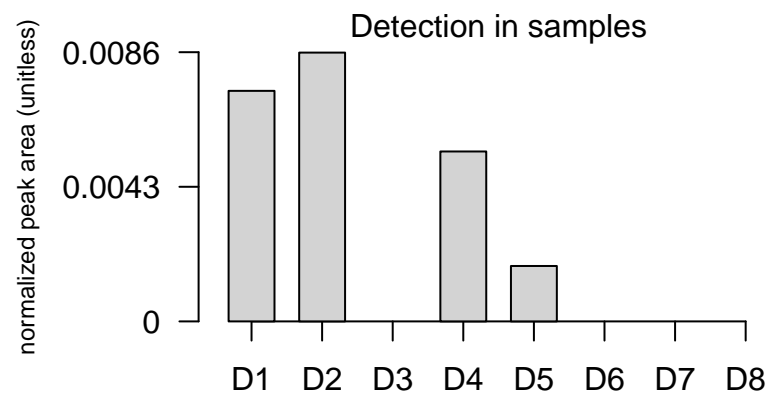
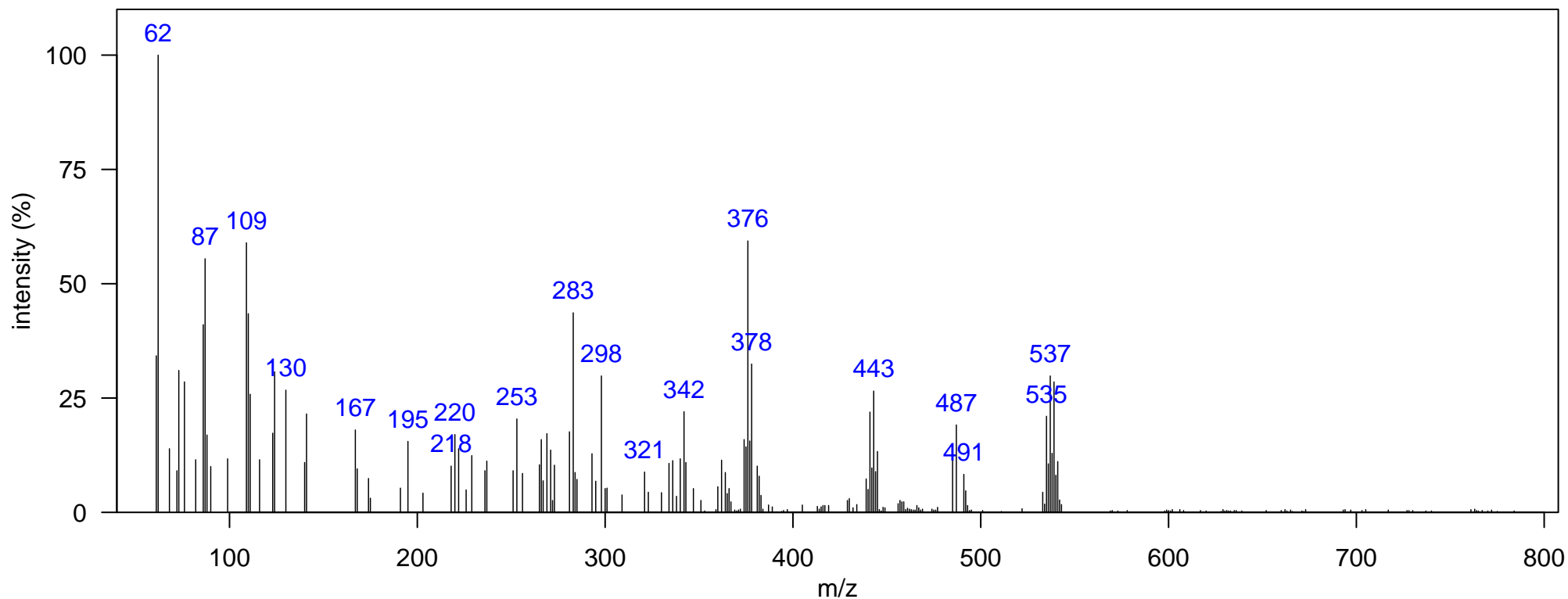
Name: unknown-38

Class: Unknown

Sample: SoCal dolphin blubber D2,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1582.94, 1.775  
Quantitative Ion m/z: 537  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

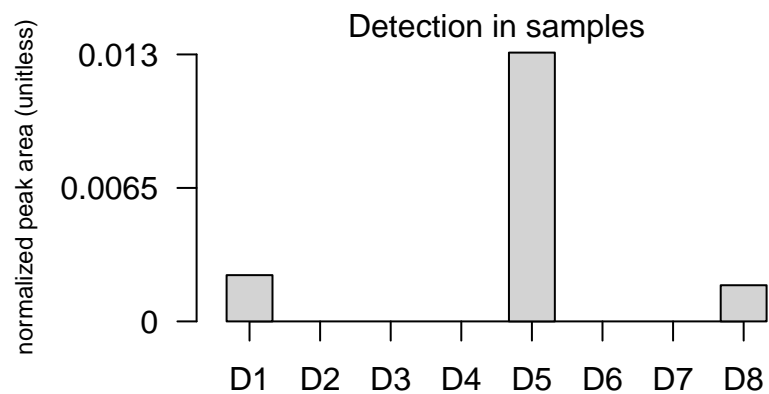
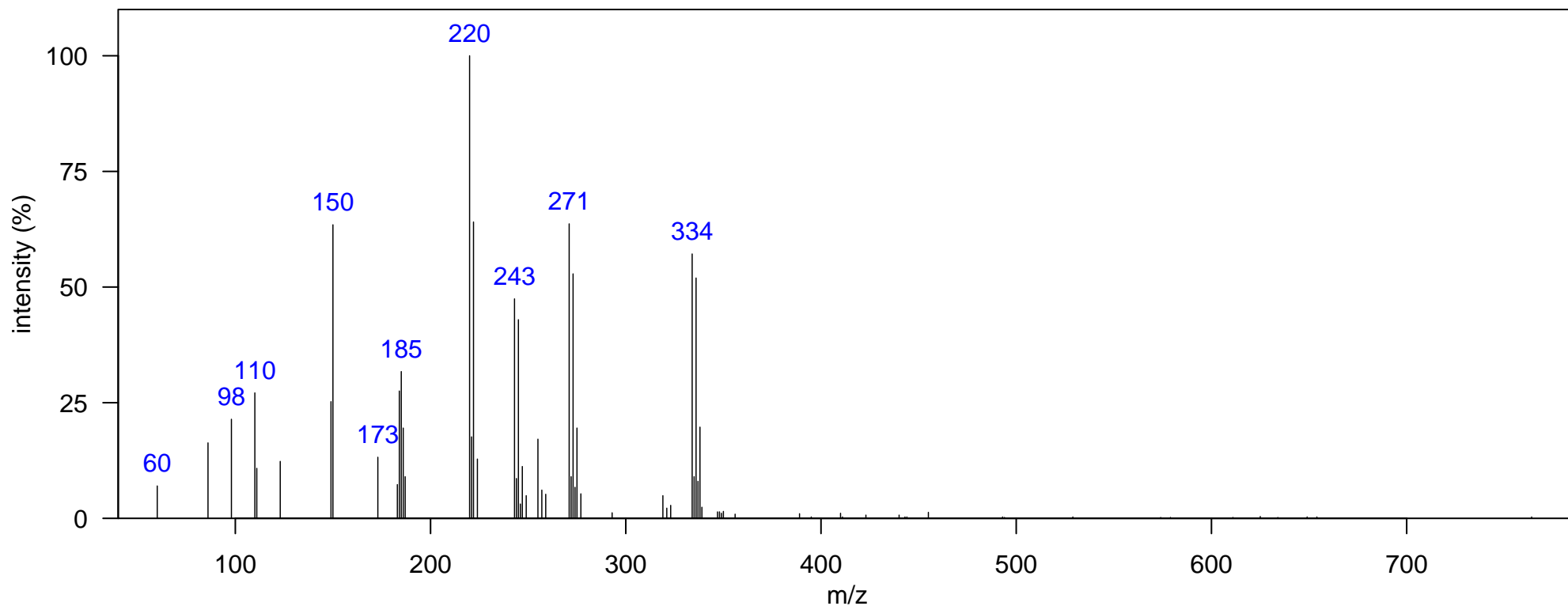
Name: unknown-39

Class: Unknown

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1586.44, 1.901  
Quantitative Ion m/z: 336  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

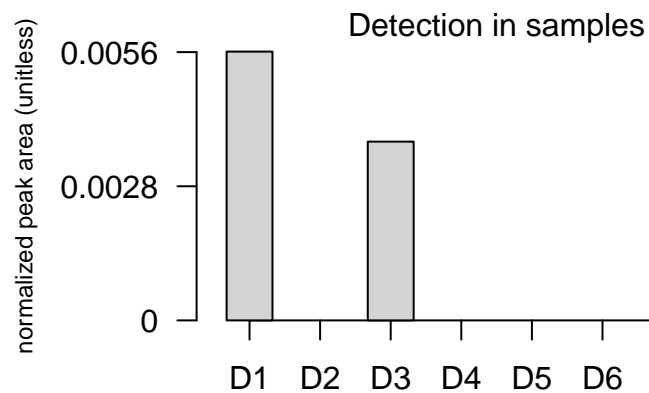


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1603.93, 1.703  
Quantitative Ion m/z: 420  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



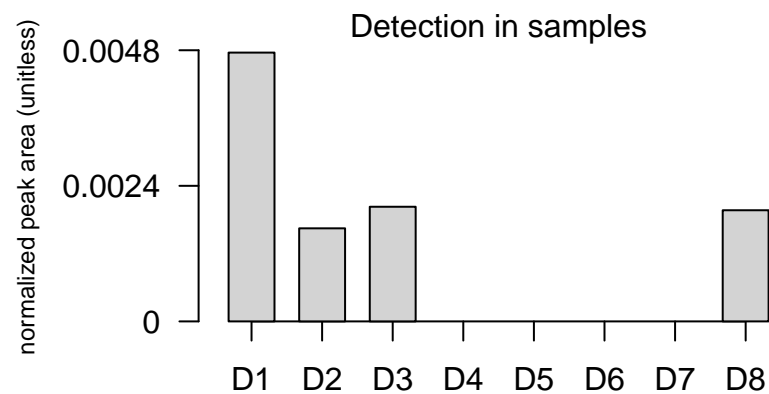
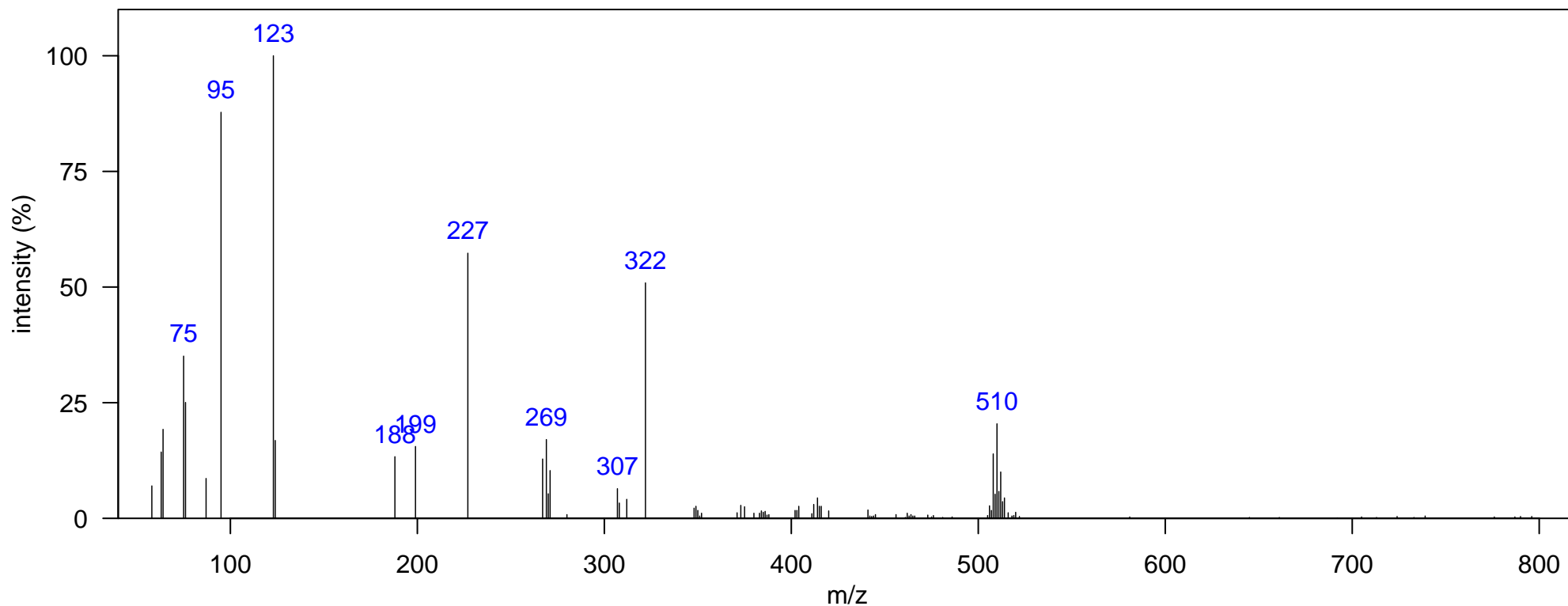
m/z [Fragment]



Class: Unknown

1D RT, 2D RT (s): 1614.42, 1.881  
Quantitative Ion m/z: 510  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

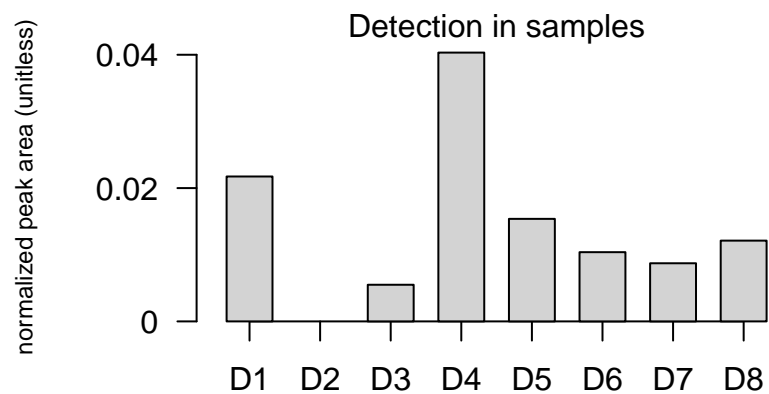
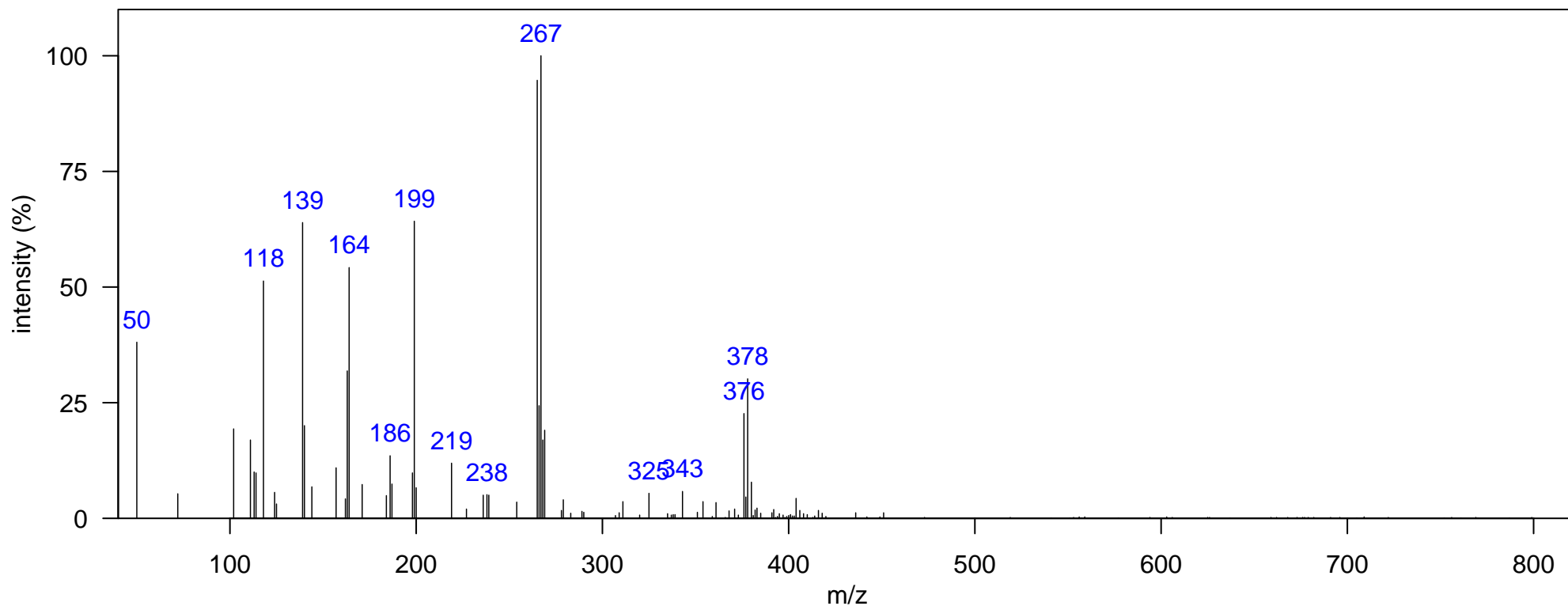


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1642.4, 1.888  
Quantitative Ion m/z: 378  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

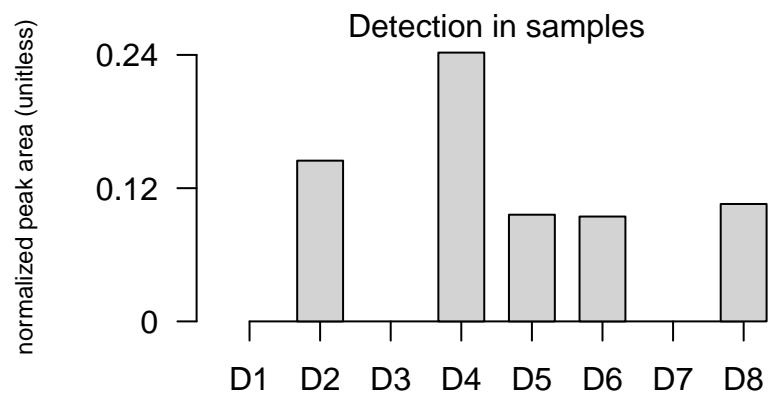
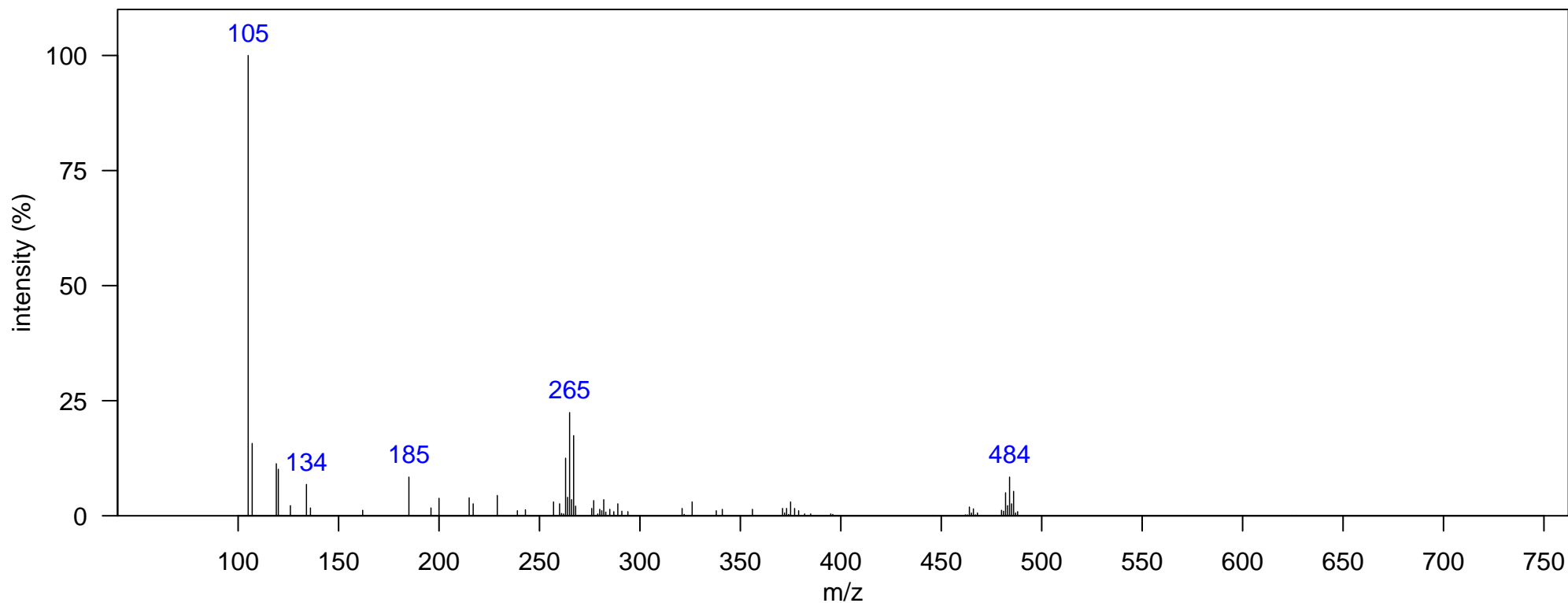


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1645.9, 1.98  
Quantitative Ion m/z: 265  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

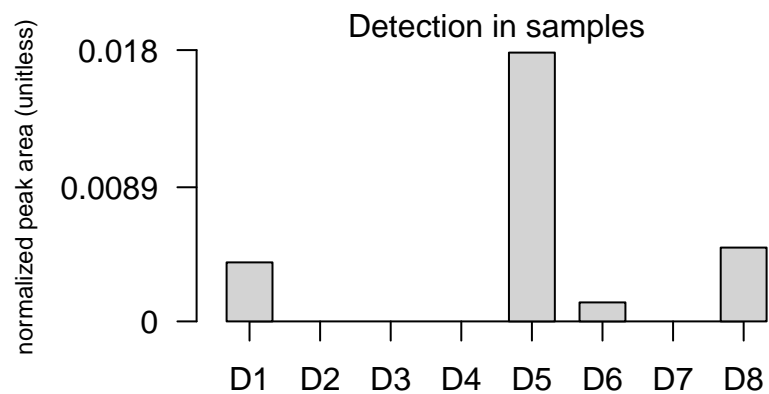
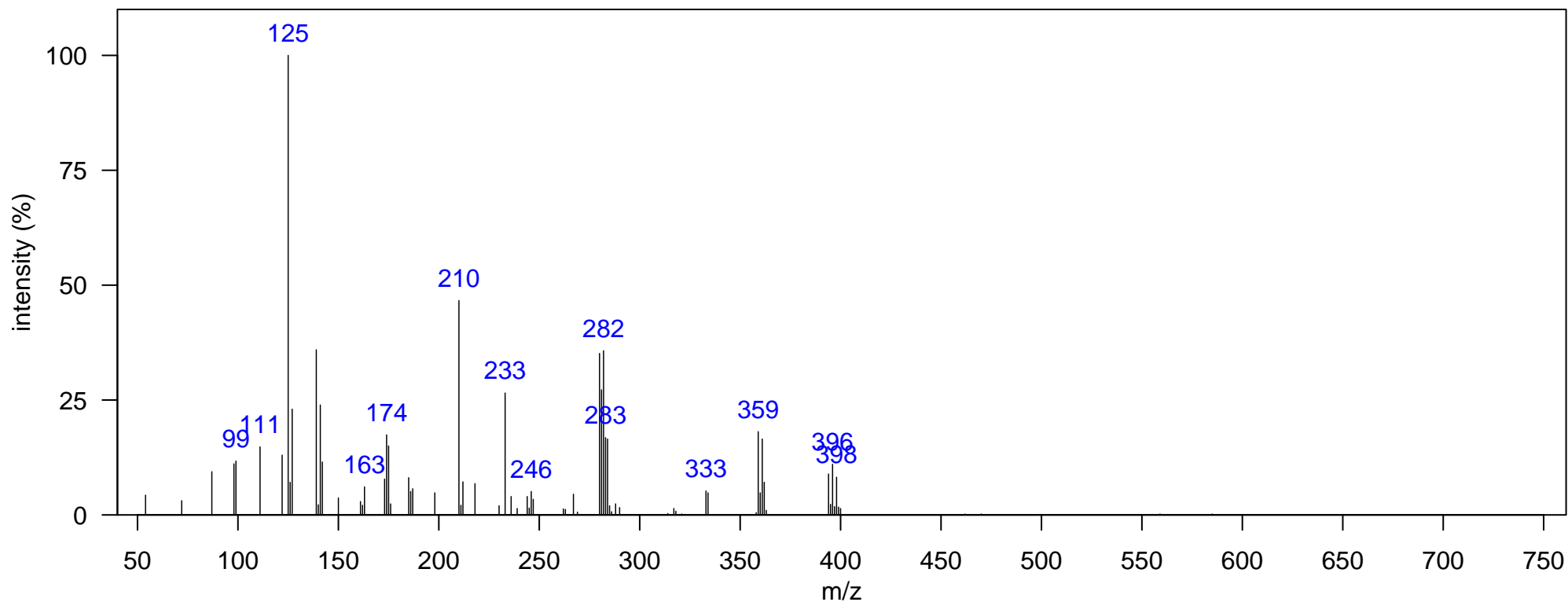
Name: unknown-44

Class: Unknown

Sample: SoCal dolphin blubber D5,  
Ecotype: coastal  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1645.9, 2.125  
Quantitative Ion m/z: 361  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

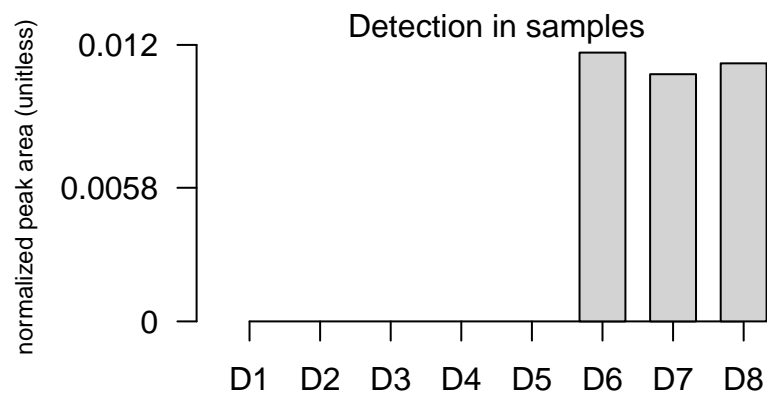
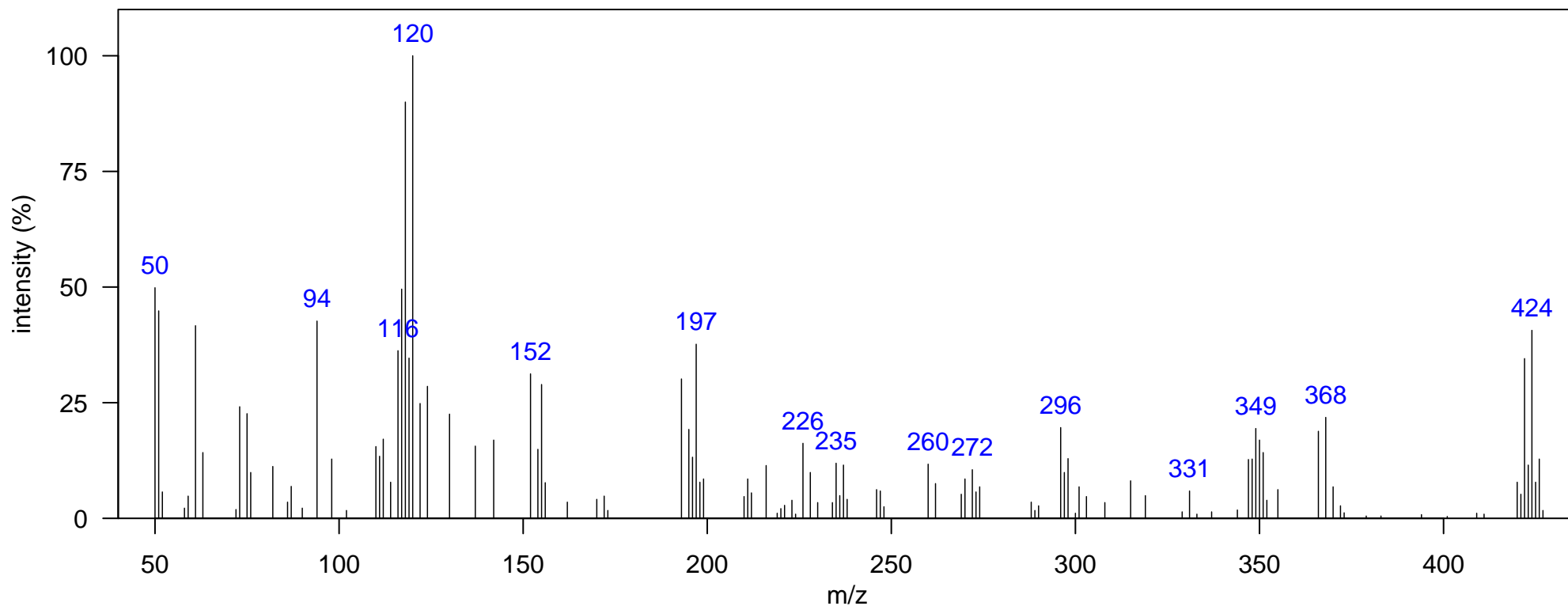
Name: unknown-45

Class: Unknown

Sample: SoCal dolphin blubber D6,  
Ecotype: offshore  
Instrument: GCxGC-TOF, EI, 70 eV  
Comment:

1D RT, 2D RT (s): 1649.4, 2.132  
Quantitative Ion m/z: 424  
Atlantic Lib:

Elemental Formula: C<sub>14</sub>H<sub>7</sub>Cl<sub>7</sub>  
Source: unknown  
Identification:

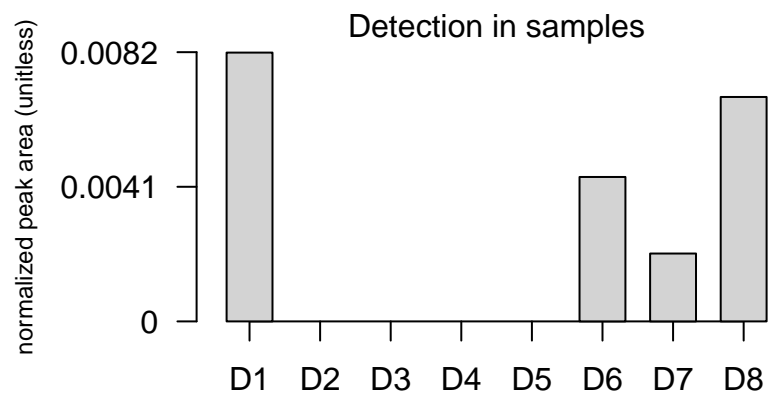
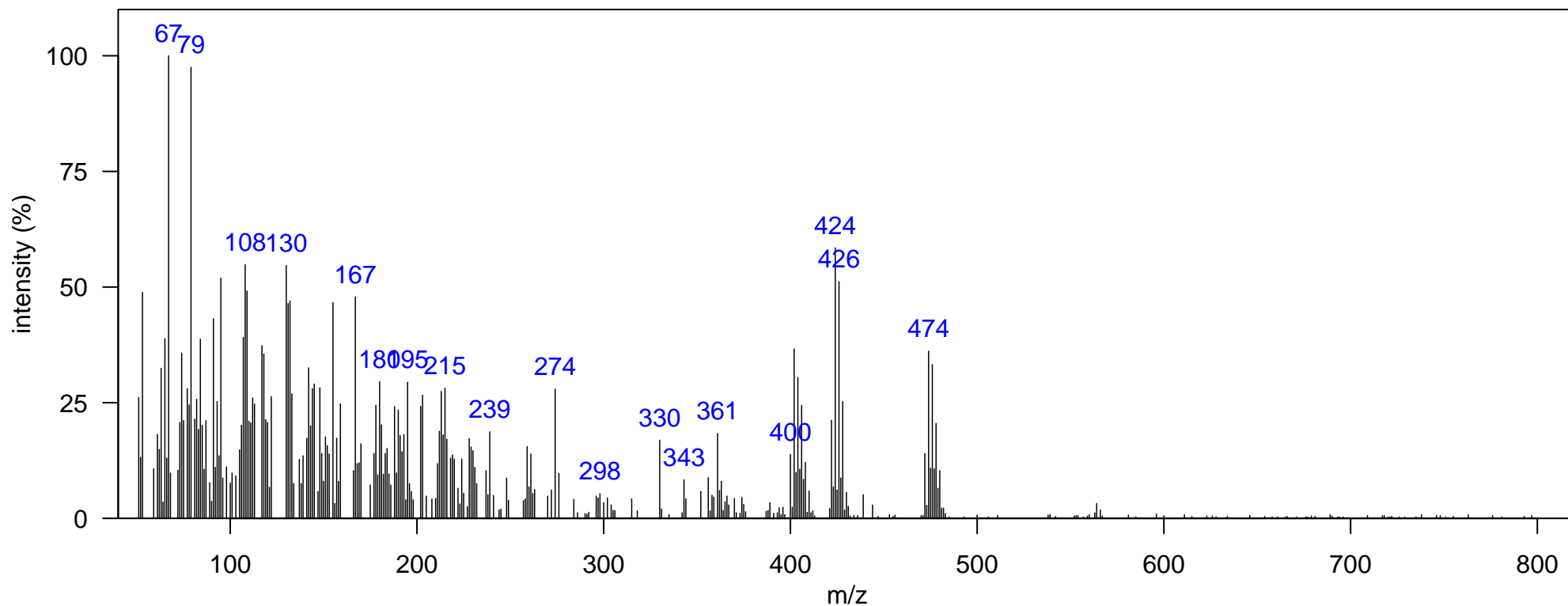


m/z [Fragment]
420 M+

Class: Unknown

1D RT, 2D RT (s): 1705.37, 1.914  
Quantitative Ion m/z: 474  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

Name: unknown-47

Class: Unknown

Sample: SoCal dolphin blubber D1,

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

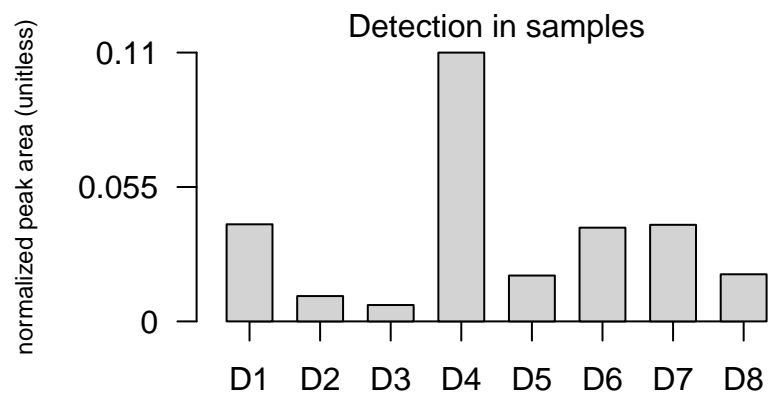
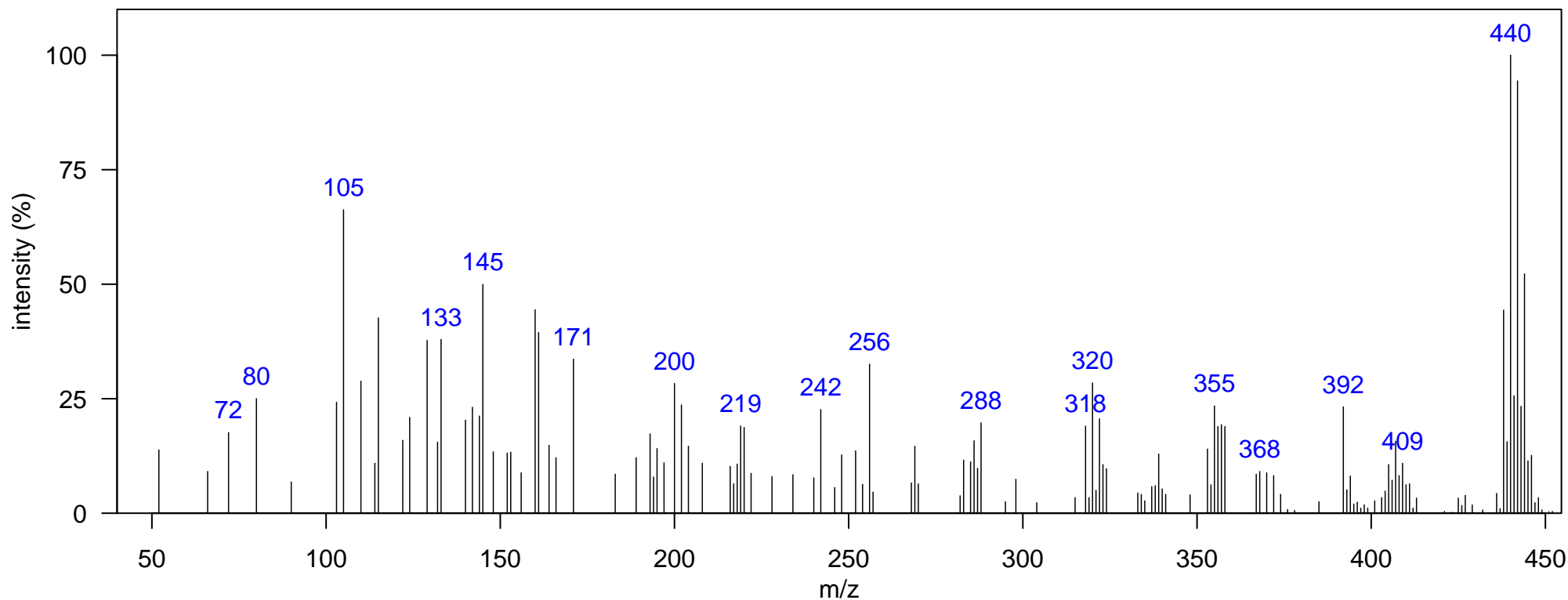
Source: unknown

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+

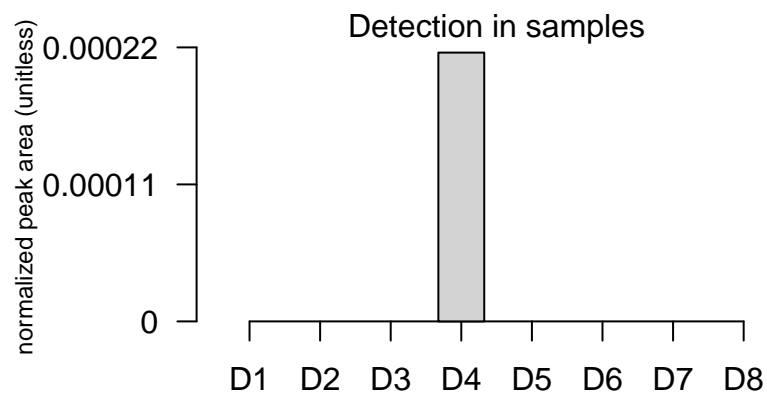
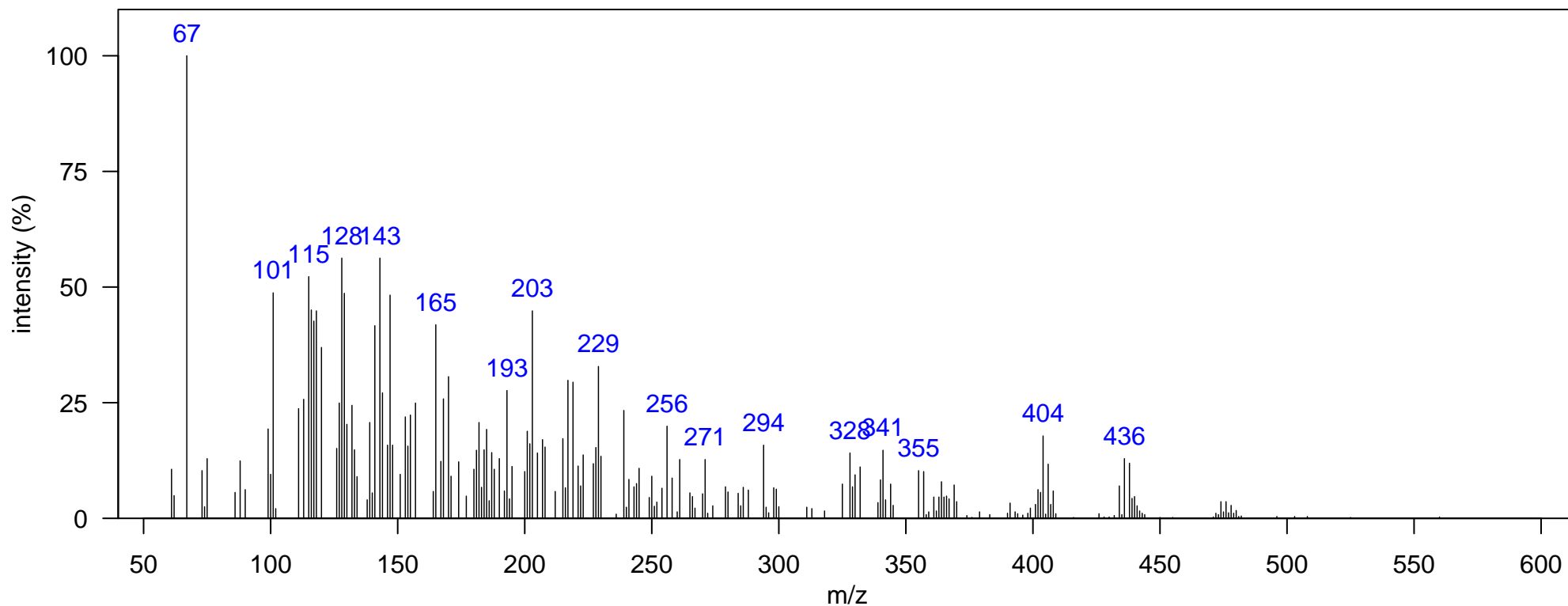
Name: unknown-48

Class: Unknown

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

1D RT, 2D RT (s): 1719.36, 1.868  
Quantitative Ion m/z: 470  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]



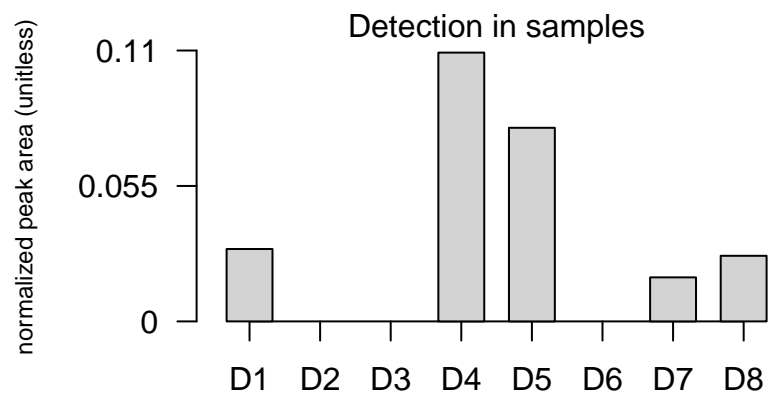
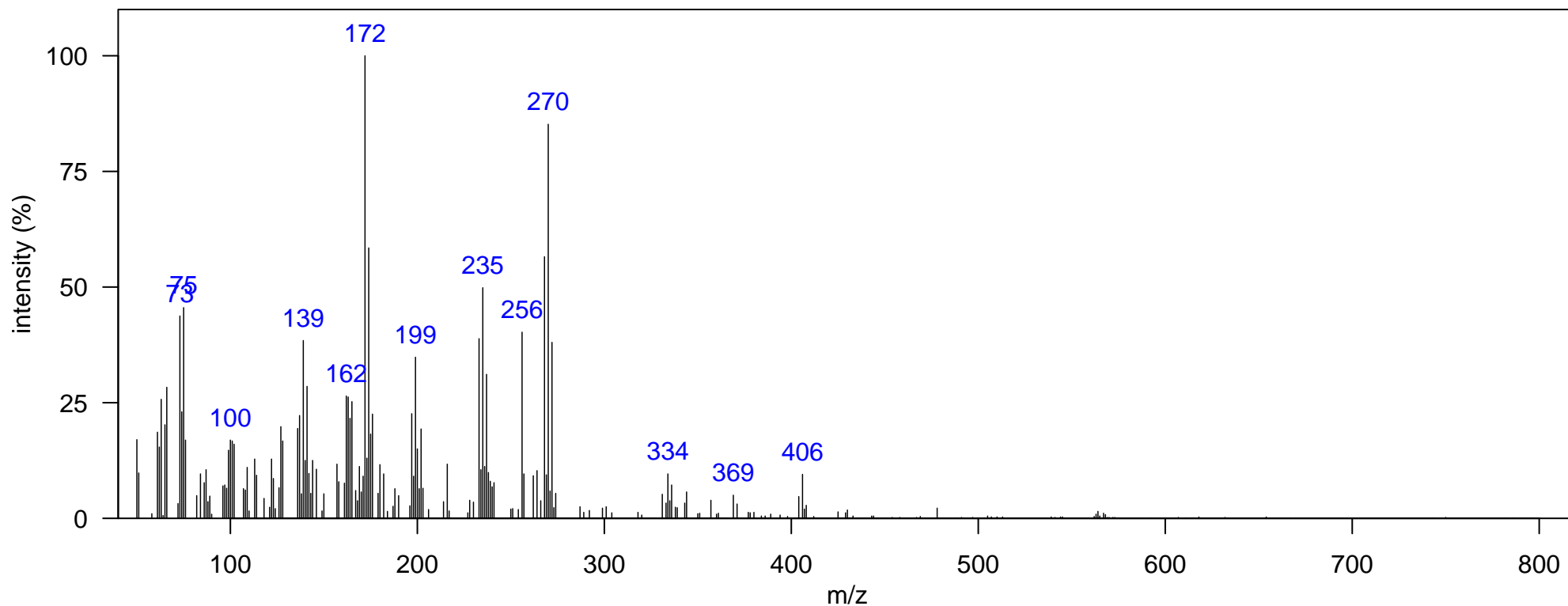
Name: unknown-49

Class: Unknown

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

1D RT, 2D RT (s): 1736.85, 1.808  
Quantitative Ion m/z: 270  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

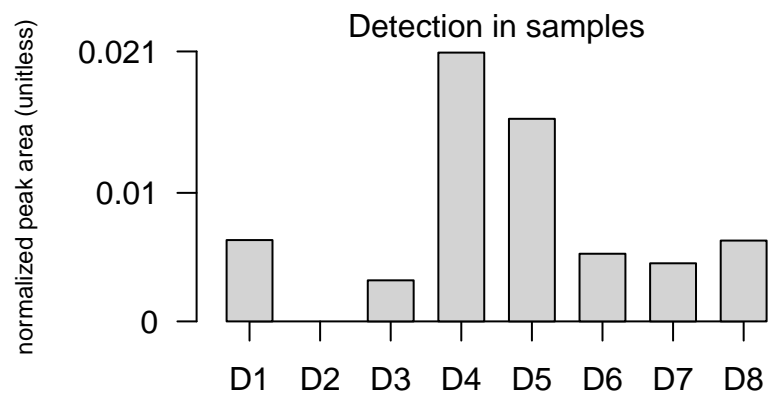
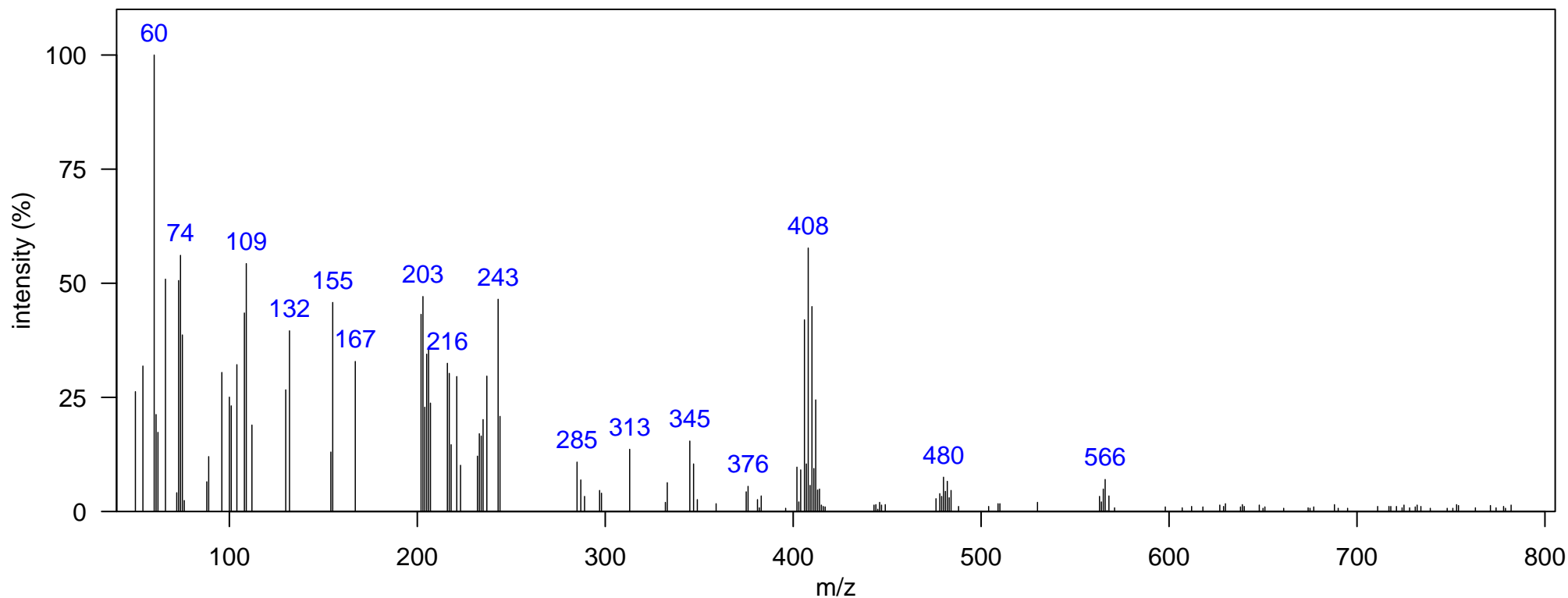


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1747.34, 1.795  
Quantitative Ion m/z: 408  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

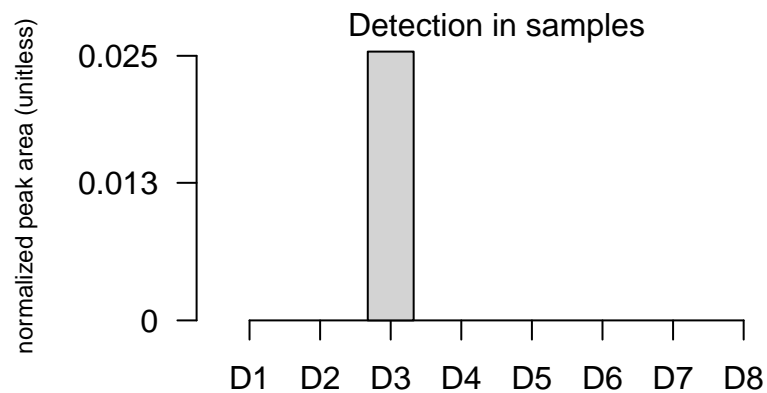


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1761.34, 2.013  
Quantitative Ion m/z: 340  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

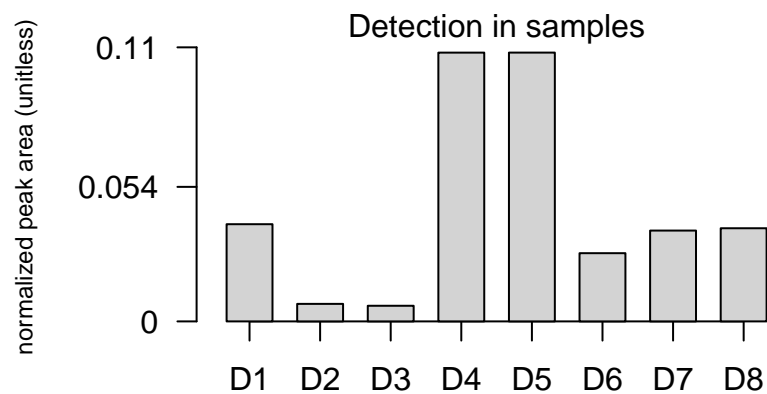
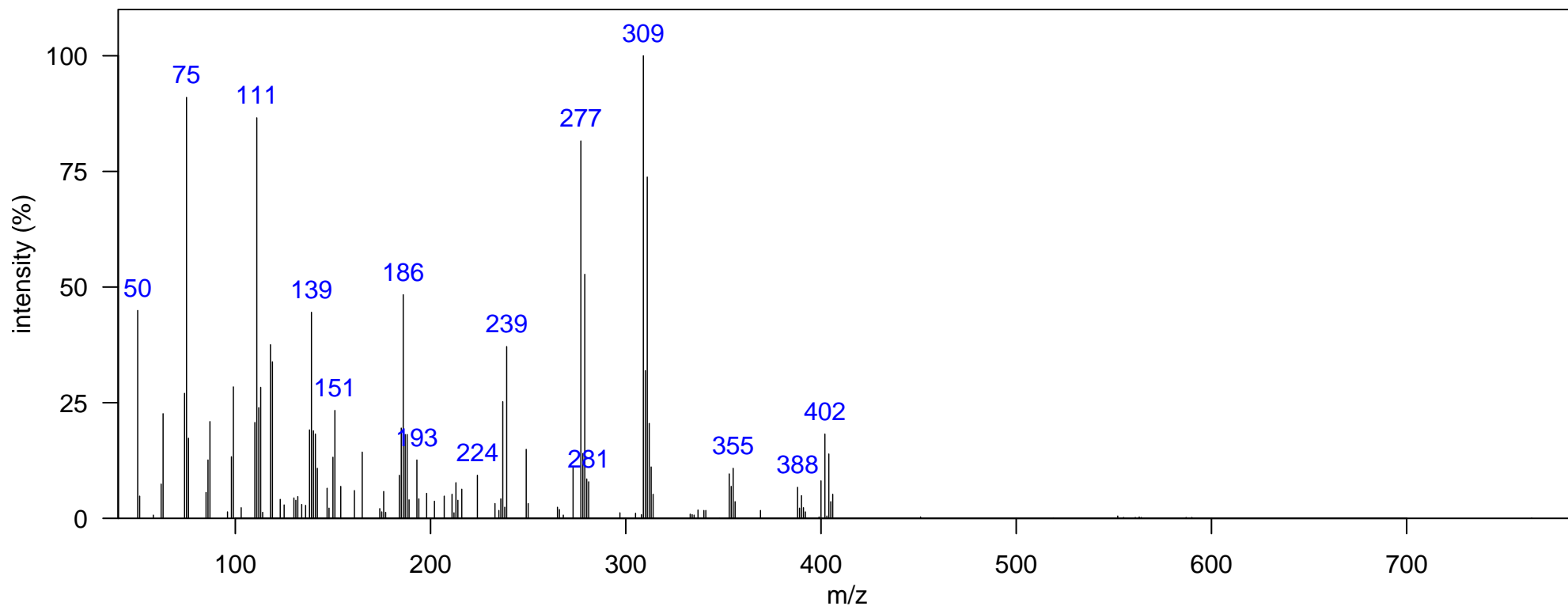
Name: unknown-52

Class: Unknown

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

1D RT, 2D RT (s): 1768.33, 2.039  
Quantitative Ion m/z: 309  
Atlantic Lib:

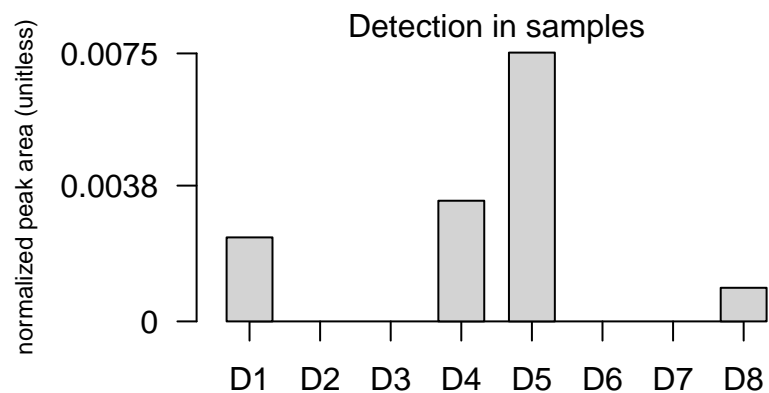
Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

1D RT, 2D RT (s): 1768.33, 2  
Quantitative Ion m/z: 475  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

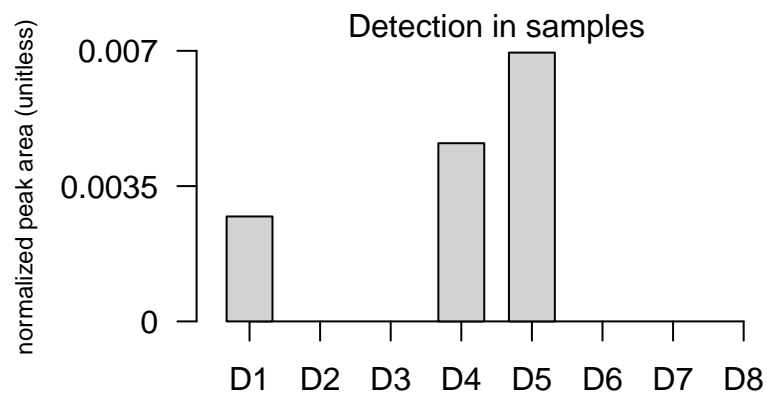


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 1817.3, 2.138  
Quantitative Ion m/z: 510  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]

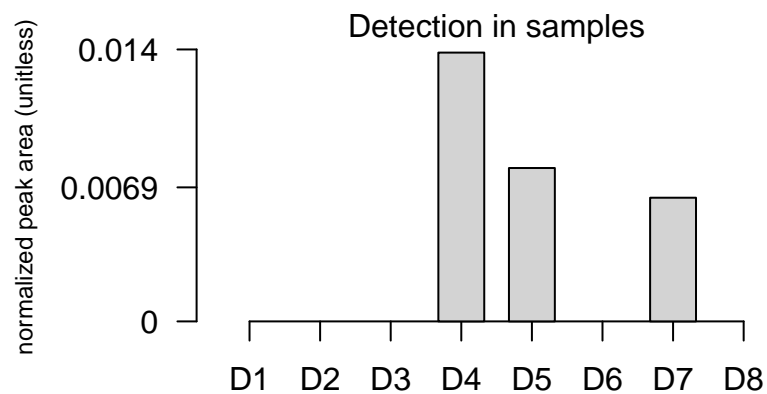
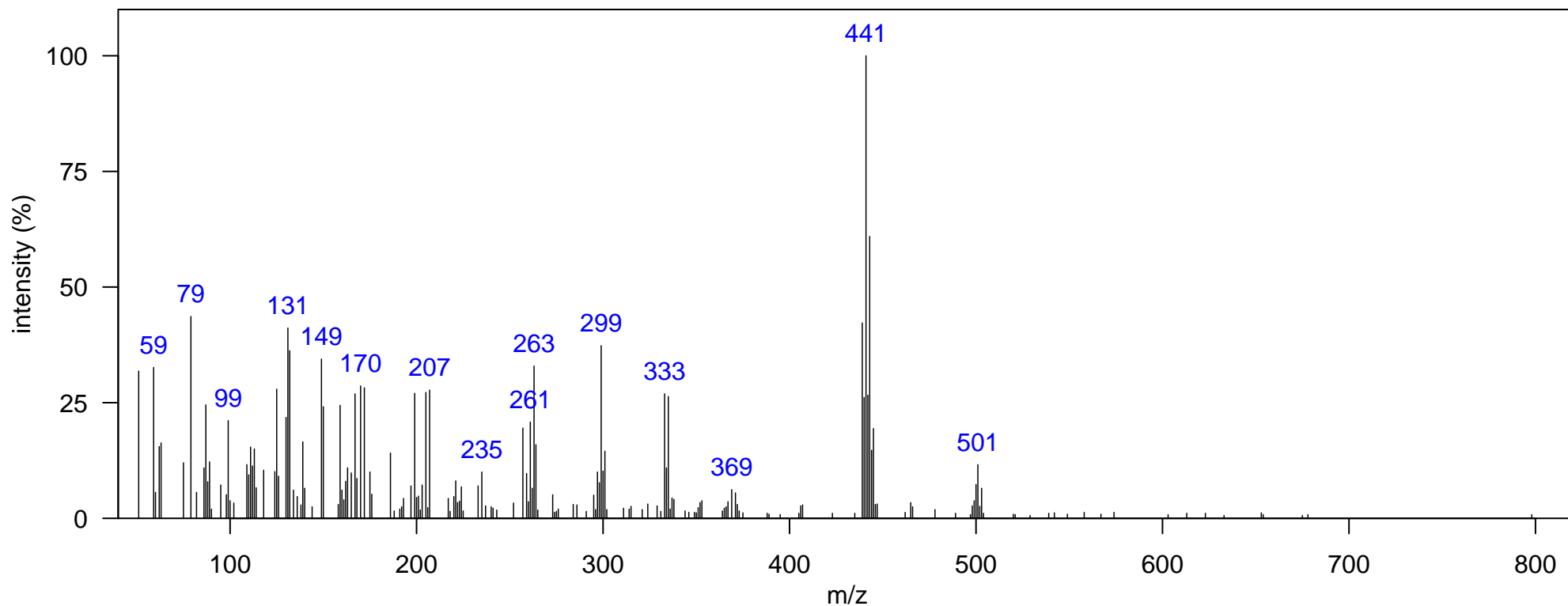
Name: unknown-55

Class: Unknown

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

1D RT, 2D RT (s): 1918.75, 2.805  
Quantitative Ion m/z: 441  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:

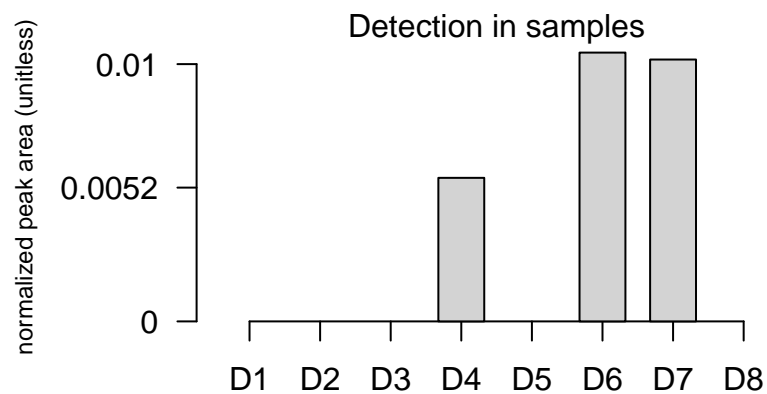


m/z [Fragment]

Class: Unknown

1D RT, 2D RT (s): 2485.42, 0.838  
Quantitative Ion m/z: 329  
Atlantic Lib:

Elemental Formula:  
Source: unknown  
Identification:



m/z [Fragment]