

# Supplementary Data 5 - Modeling Results for the Thermo Q Exactive HF [MS:1002523] platform for:

## LipidCreator workbench to probe the lipidomic landscape

Bing Peng<sup>1,2, #</sup>, Dominik Kopczynski<sup>1,#</sup>, Brian S Pratt<sup>3</sup>, Christer S Ejsing<sup>4,5</sup>, Bo Burla<sup>6</sup>, Martin Hermansson<sup>4,7</sup>, Peter Imre Benke<sup>8</sup>, Sock Hwee Tan<sup>9,10</sup>, Mark Y Chan<sup>9,10,11</sup>, Federico Torta<sup>8</sup>, Dominik Schwudke<sup>12,13,14</sup>, Sven Meckelmann<sup>15</sup>, Cristina Coman<sup>1,17</sup>, Oliver J Schmitz<sup>15</sup>, Brendan MacLean<sup>3</sup>, Mailin-Christin Manke<sup>16</sup>, Oliver Borst<sup>16</sup>, Markus R Wenk<sup>6,8</sup>, Nils Hoffmann<sup>1</sup>, Robert Ahrends<sup>1,17,\*</sup>

<sup>1</sup> Leibniz-Institut für Analytische Wissenschaften – ISAS - e.V., 44139 Dortmund, Germany

<sup>2</sup> Division of Rheumatology, Department of Medicine Solna, Karolinska Institutet, Karolinska University Hospital, SE-171 76 Stockholm, Sweden

<sup>3</sup> University of Washington, Department of Genome Sciences, WA 98195 Seattle, USA

<sup>4</sup> Department of Biochemistry and Molecular Biology, University of Southern Denmark, DK-5230 Odense, Denmark

<sup>5</sup> Cell Biology and Biophysics Unit, European Molecular Biology Laboratory, 69117 Heidelberg, Germany

<sup>6</sup> Singapore Lipidomics Incubator (SLING), Life Science Institute, National University of Singapore, 117456 Singapore, Singapore

<sup>7</sup> Wihuri Research Institute, 00290 Helsinki, Finland

<sup>8</sup> Singapore Lipidomics Incubator (SLING), Department of Biochemistry, Yong Loo Lin School of Medicine, National University of Singapore, 117596 Singapore, Singapore

<sup>9</sup> Department of Medicine, Yong Loo Lin School of Medicine, National University Hospital, 119228 Singapore, Singapore

<sup>10</sup> Cardiovascular Research Institute, National University of Singapore, 117599 Singapore, Singapore

<sup>11</sup> National University Heart Centre, National University Health System, 117599 Singapore, Singapore

<sup>12</sup> Research Center Borstel, Leibniz Lung Center, Borstel, Germany

<sup>13</sup> German Center for Infection Research (DZIF), 38124 Braunschweig, Germany

<sup>14</sup> Airway Research Center North Member of the German Center for Lung Research (DZL), 22927 Großhansdorf, Germany

<sup>15</sup> Institute of Applied Analytical Chemistry, University of Duisburg-Essen, 45141 Essen, Germany

<sup>16</sup> Department of Cardiology and Cardiovascular Medicine, University of Tübingen, 72076 Tübingen, Germany

<sup>17</sup> Department of Analytical Chemistry, University of Vienna, Währinger Strasse 38, 1090 Vienna, Austria

# Two authors contributed equally to this work

\* Corresponding author

# Table of Contents

1. Thermo Scientific Q Exactive HF [MS:1002523]	2
1.1. 10-HDoHE [M-H]1- 0001269	2
1.2. 11(12)-EET{d11} [M-H]1- 0001307	5
1.3. 11,12-DHET{d11} [M-H]1- 0000157	8
1.4. 11-HDoHE [M-H]1- 0001275	11
1.5. 11-HETE [M-H]1- 0001289	14
1.6. 12(13)-EpOME{d4} [M-H]1- 0001303	17
1.7. 12-HEPE [M-H]1- 0001281	20
1.8. 12-HETE{d8} [M-H]1- 0001295	23
1.9. 12-HHTrE [M-H]1- 0001347	26
1.10. 12-OxoETE [M-H]1- 0001283	29
1.11. 13-HODE{d4} [M-H]1- 0001277	32
1.12. 13-HOTrE [M-H]1- 0001341	35
1.13. 14(15)-EET{d11} [M-H]1- 0001305	38
1.14. 14(15)-EpETE [M-H]1- 0001285	41
1.15. 14,15-DHET{d11} [M-H]1- 0000155	44
1.16. 15-HEPE [M-H]1- 0000139	47
1.17. 15-HETE{d8} [M-H]1- 0001329	50
1.18. 15d-PGJ2{d4} [M-H]1- 0000149	53
1.19. 16-HDoHE [M-H]1- 0001271	56
1.20. 18-HEPE [M-H]1- 0000131	59
1.21. 5(6)-EET{d11} [M-H]1- 0000161	62
1.22. 5,12-DiHETE [M-H]1- 0001299	65
1.23. 5,6-DiHETE [M-H]1- 0001301	68
1.24. 5-HEPE [M-H]1- 0000133	71
1.25. 5-HETE{d8} [M-H]1- 0000145	74
1.26. 5-HpETE [M-H]1- 0001297	77
1.27. 5-OxoETE{d7} [M-H]1- 0000147	80
1.28. 8(9)-EET{d11} [M-H]1- 0001309	83
1.29. 8,9-DHET{d11} [M-H]1- 0000159	86
1.30. 8-HDoHE [M-H]1- 0001273	89
1.31. 8-HETE [M-H]1- 0001287	92
1.32. 9(10)-EpOME{d4} [M-H]1- 0001355	95
1.33. 9-HEPE [M-H]1- 0001279	98
1.34. 9-HETE [M-H]1- 0001291	101
1.35. 9-HODE [M-H]1- 0001339	104
1.36. 9-HOTrE [M-H]1- 0000137	107
1.37. AA{d8} [M-H]1- 0001337	110
1.38. DHA{d5} [M-H]1- 0001353	113
1.39. EPA{d5} [M-H]1- 0001335	116
1.40. LTB4{d4} [M-H]1- 0001331	119



1.41. LTC4{d5} [M-H]1- 0000163	122
1.42. LTD4{d5} [M-H]1- 0000153	125
1.43. Maresin 1 [M-H]1- 0001319	128
1.44. PGB2{d4} [M-H]1- 0000151	131
1.45. PGD2{d4} [M-H]1- 0001311	134
1.46. PGE2{d4} [M-H]1- 0001313	137
1.47. PGE2{d9} [M-H]1- 0001321	140
1.48. PGF2alpha{d4} [M-H]1- 0000125	143
1.49. PGI2 [M-H]1- 0000127	146
1.50. Resolvin D1{d5} [M-H]1- 0001333	149
1.51. Resolvin D2{d5} [M-H]1- 0000129	152
1.52. Resolvin D3 [M-H]1- 0000141	155
1.53. Resolvin D5 [M-H]1- 0000143	158
1.54. TXB1 [M-H]1- 0001325	161
1.55. TXB2{d4} [M-H]1- 0001327	164
1.56. TXB3 [M-H]1- 0001323	167
1.57. alpha-LA{d14} [M-H]1- 0000135	170
1.58. tetranor-12-HETE [M-H]1- 0001351	173

## 1. Thermo Scientific Q Exactive HF [MS:1002523]

### 1.1. 10-HDoHE [M-H]1- 0001269

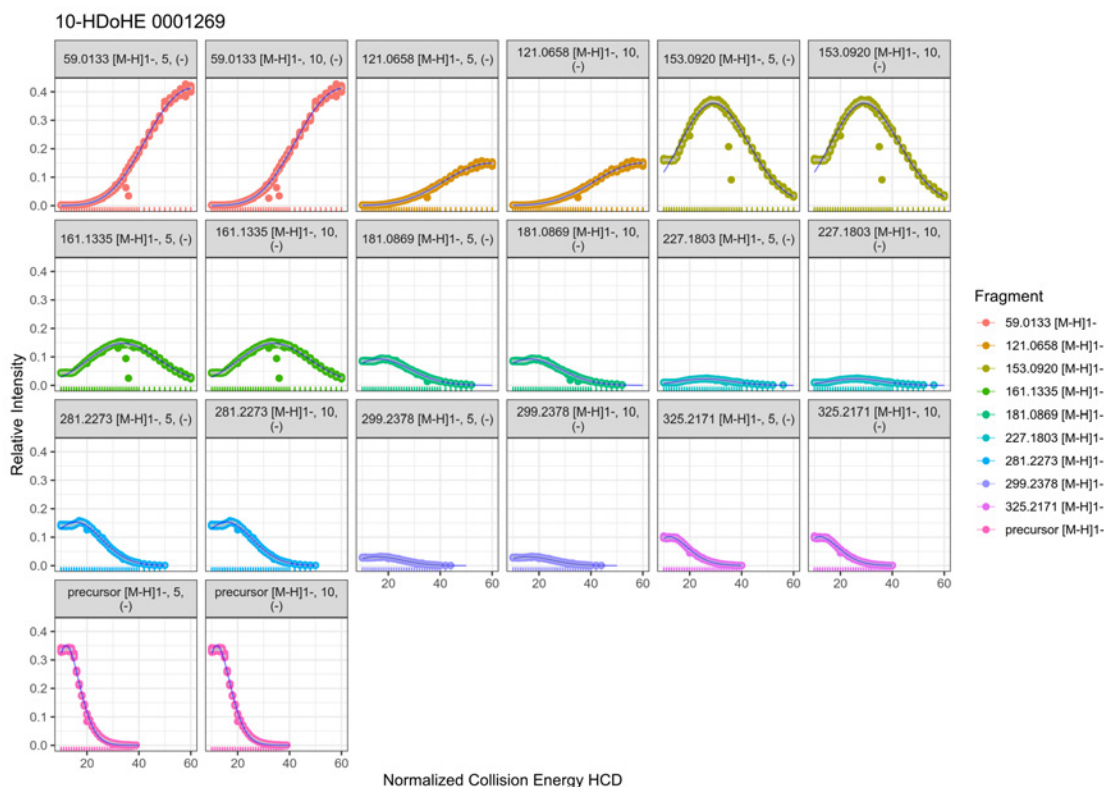


Figure 1. Nonlinear fit

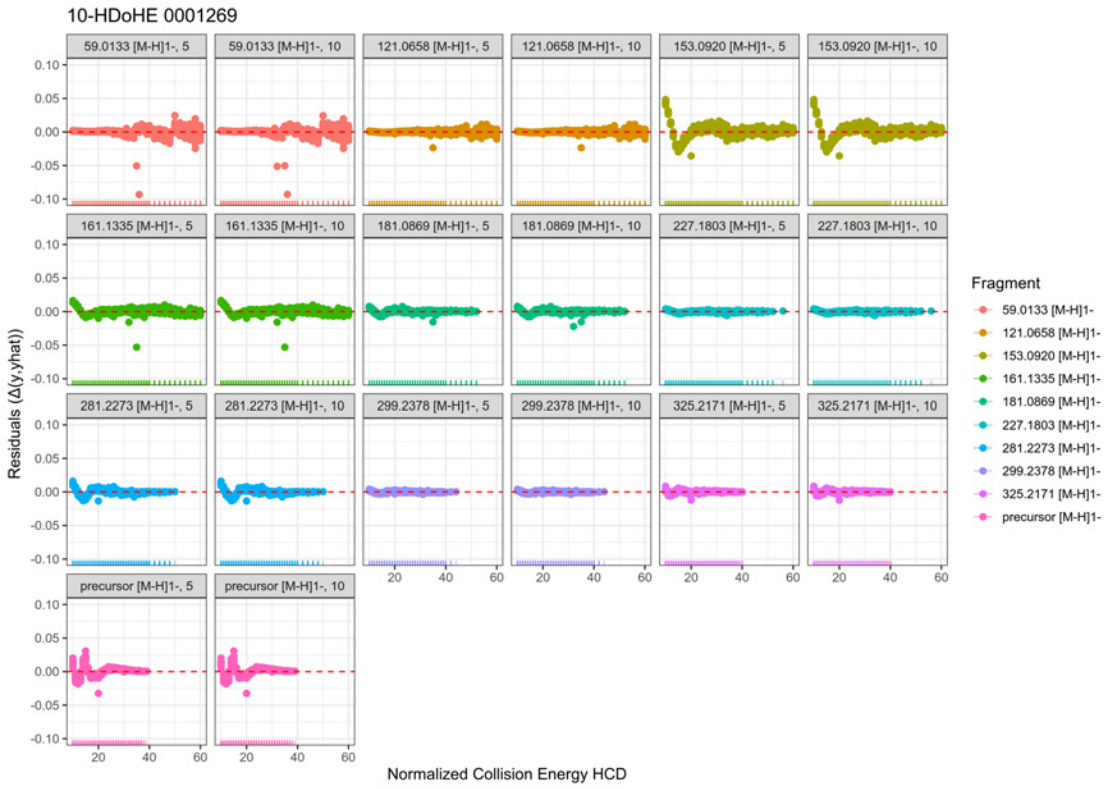


Figure 2. Residuals of nonlinear fit

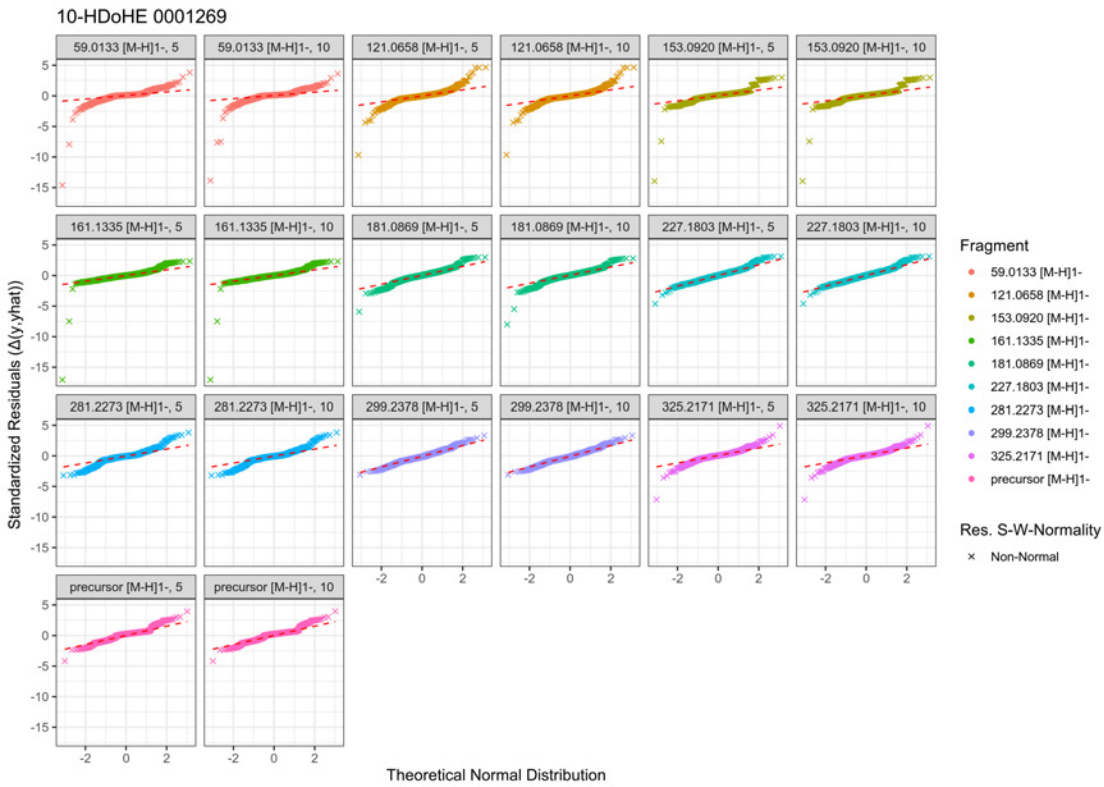


Figure 3. Quantile-quantile plot of residuals

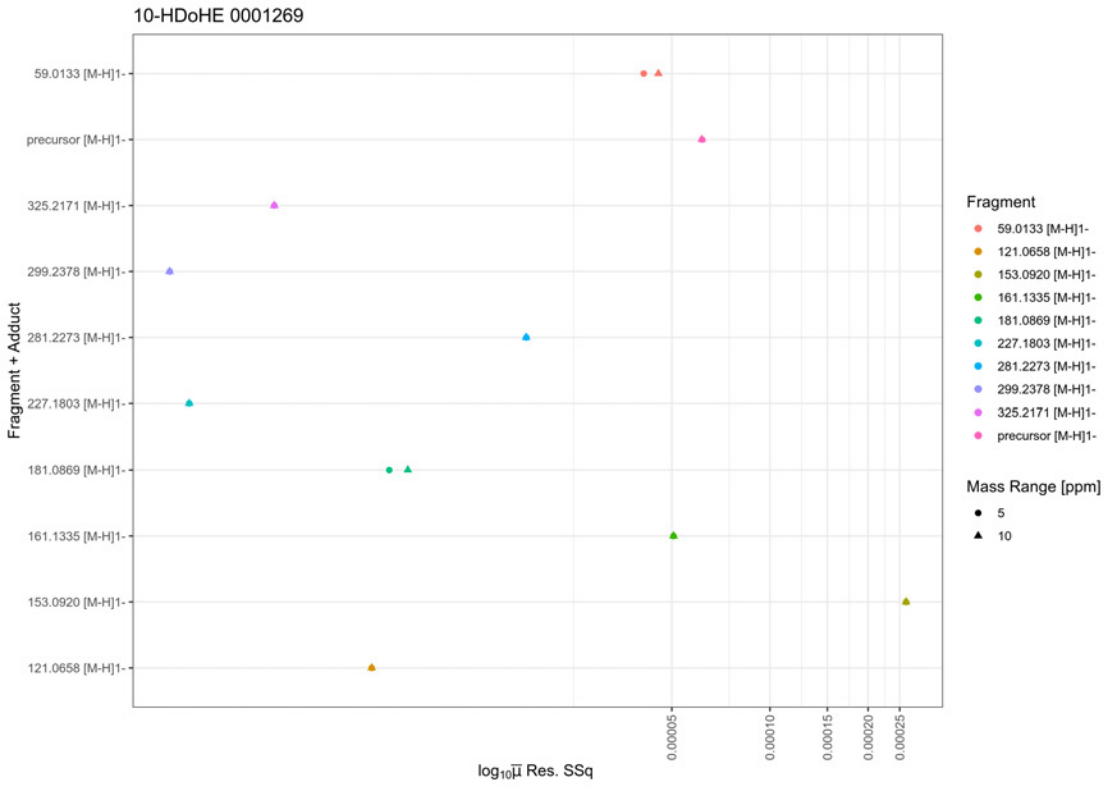


Figure 4. Normalized sum-of-squares of the residuals

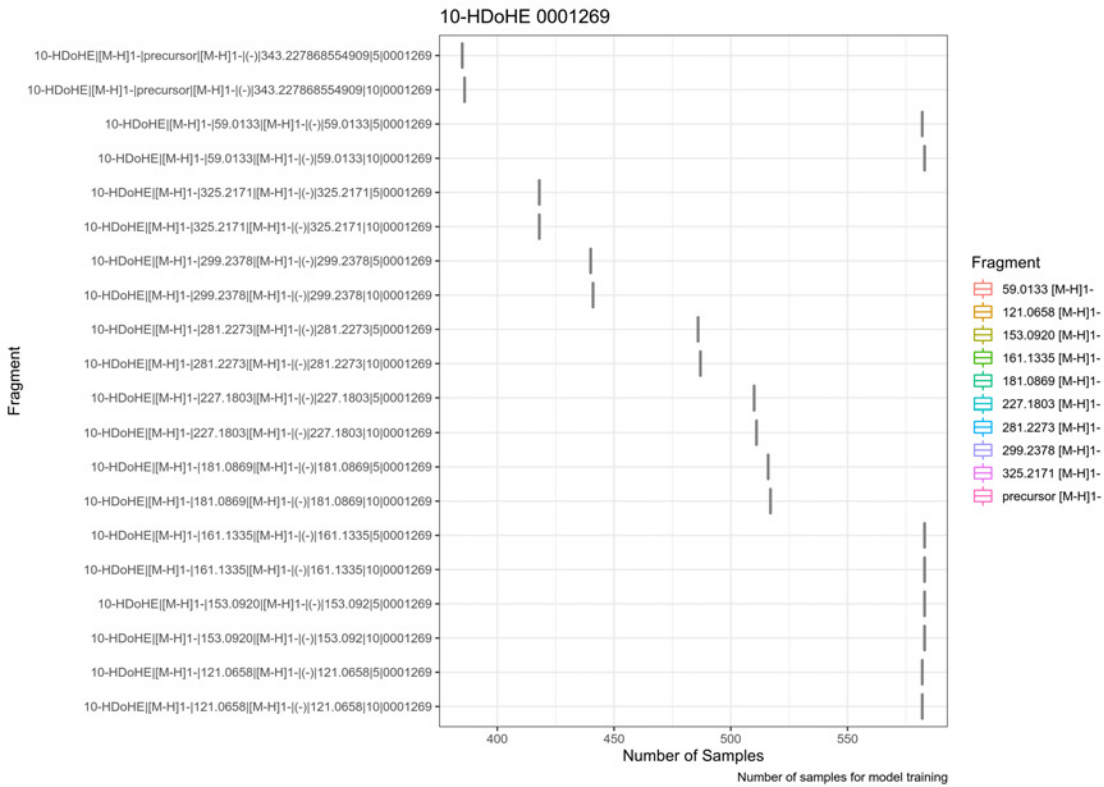


Figure 5. Number of samples used for training per combination Id

## 1.2. 11(12)-EET{d11} [M-H]1- 0001307

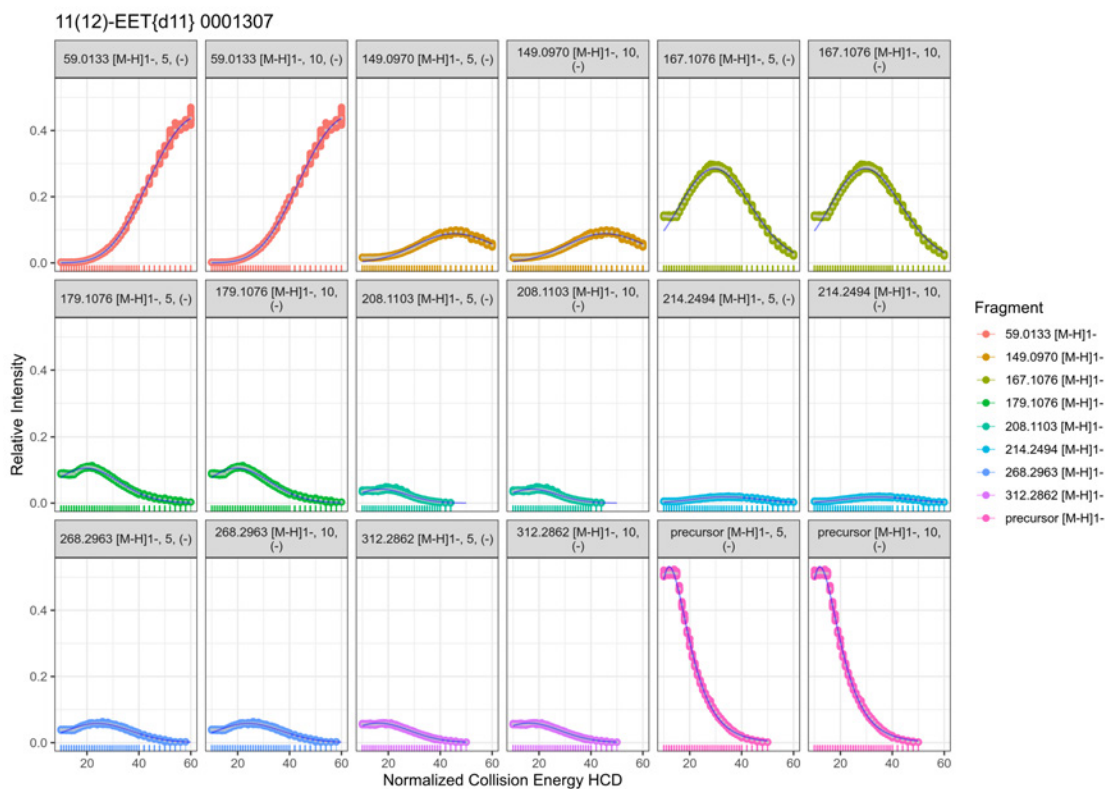


Figure 6. Nonlinear fit

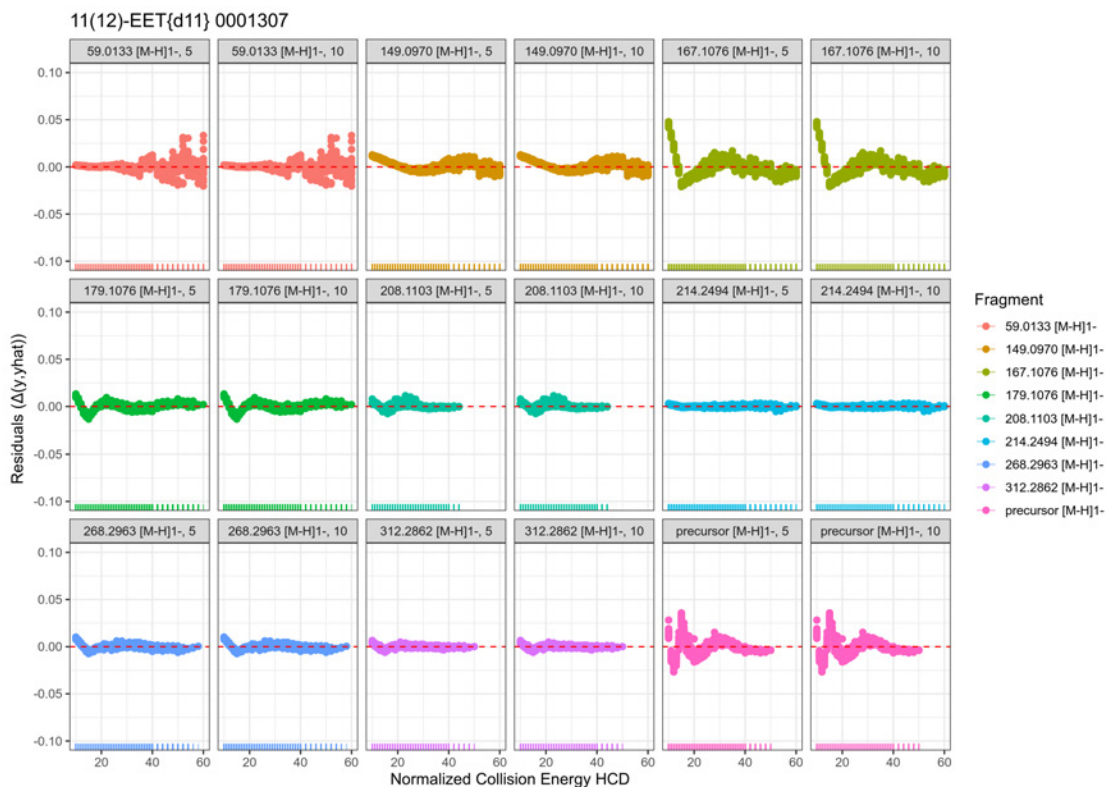


Figure 7. Residuals of nonlinear fit

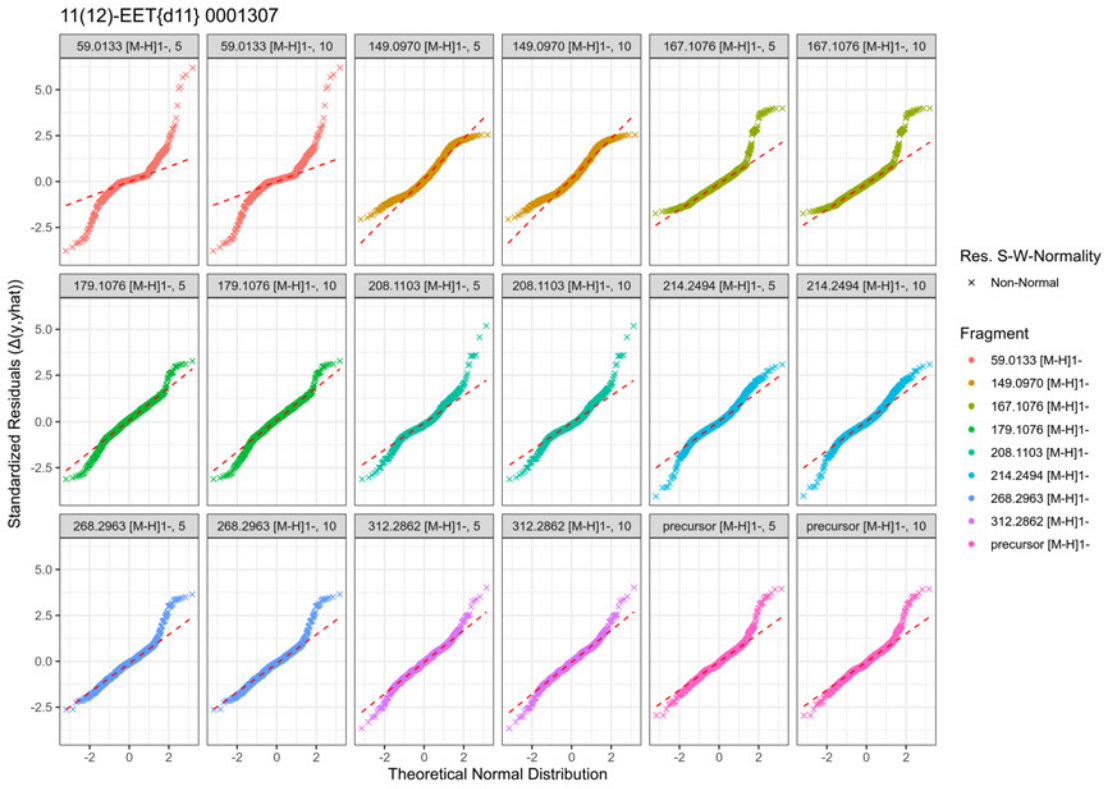


Figure 8. Quantile-quantile plot of residuals

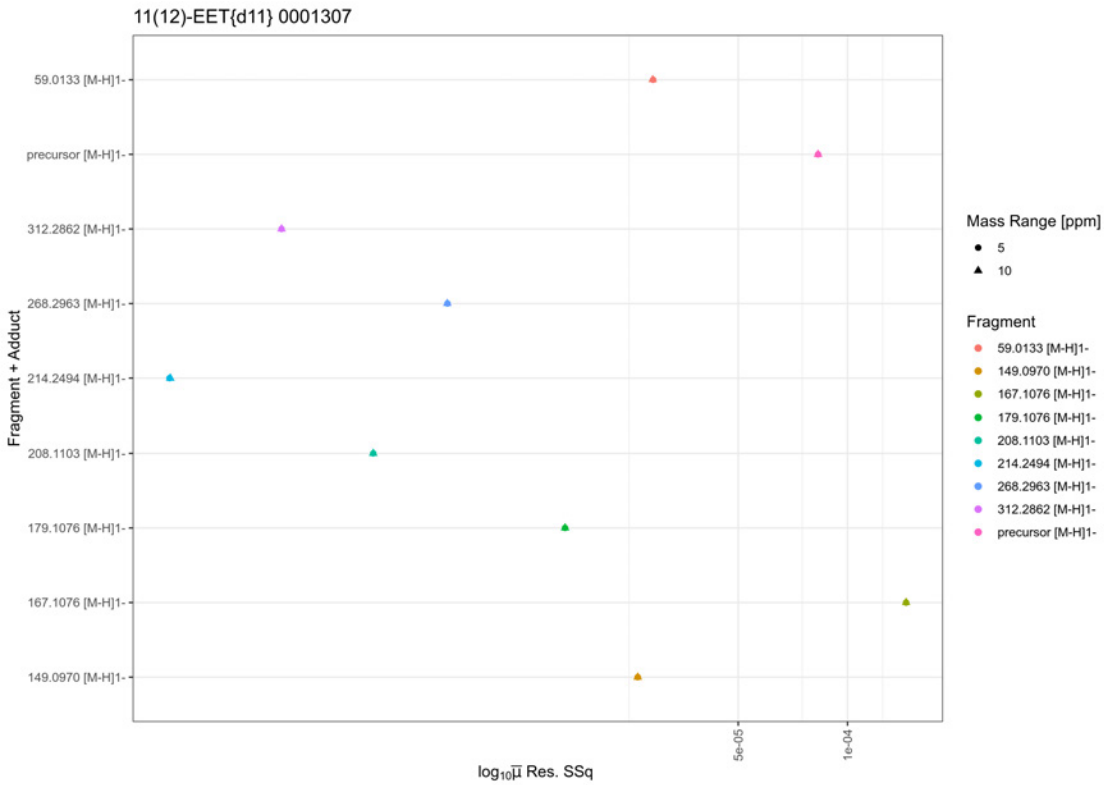


Figure 9. Normalized sum-of-squares of the residuals

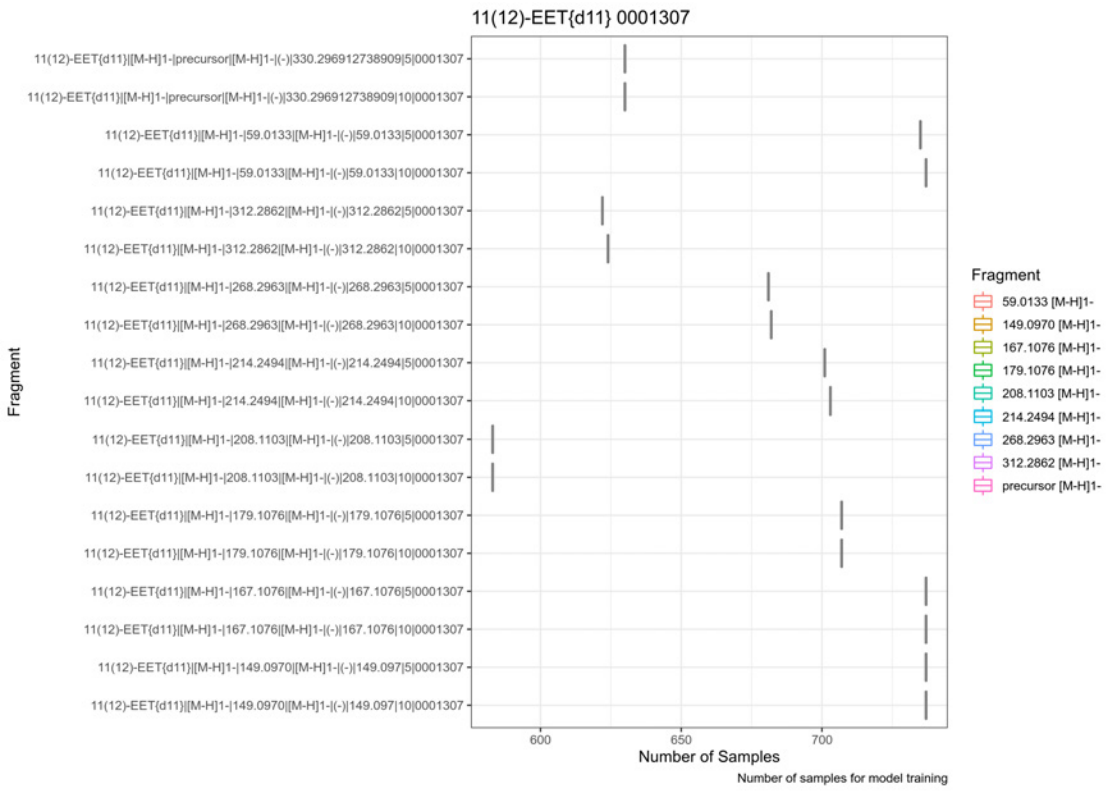


Figure 10. Number of samples used for training per combination Id



### 1.3. 11,12-DHET{d11} [M-H]1- 0000157

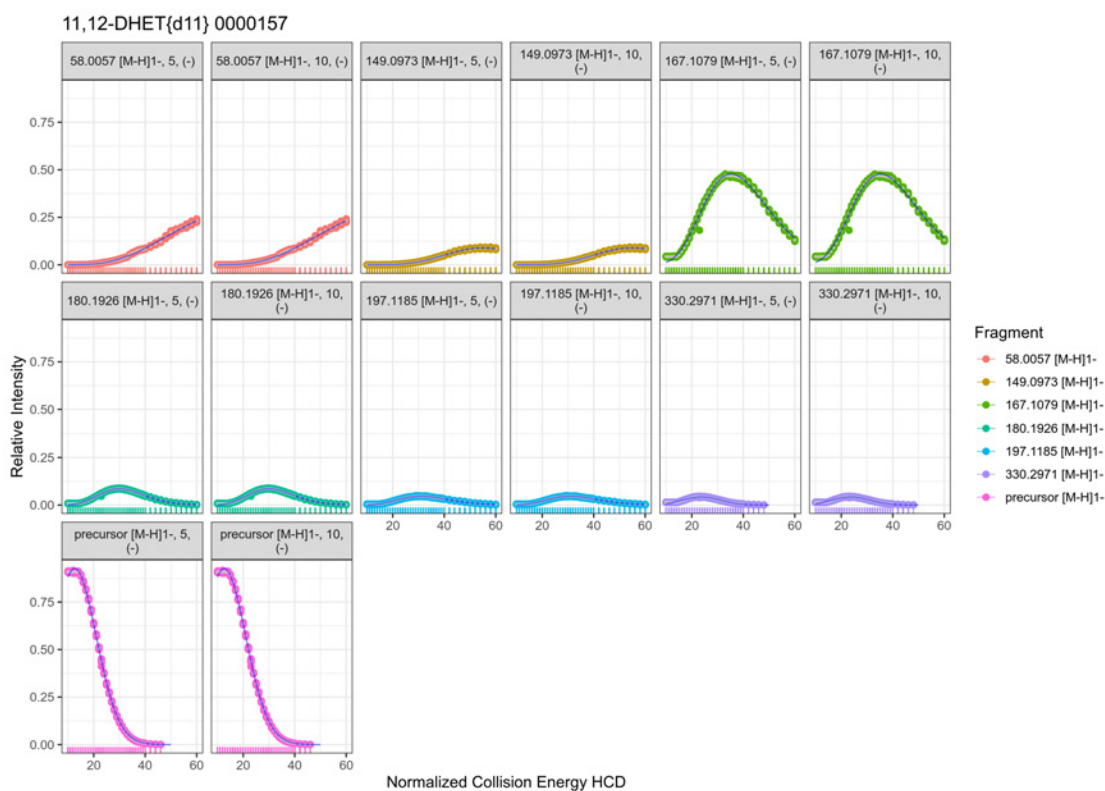


Figure 11. Nonlinear fit

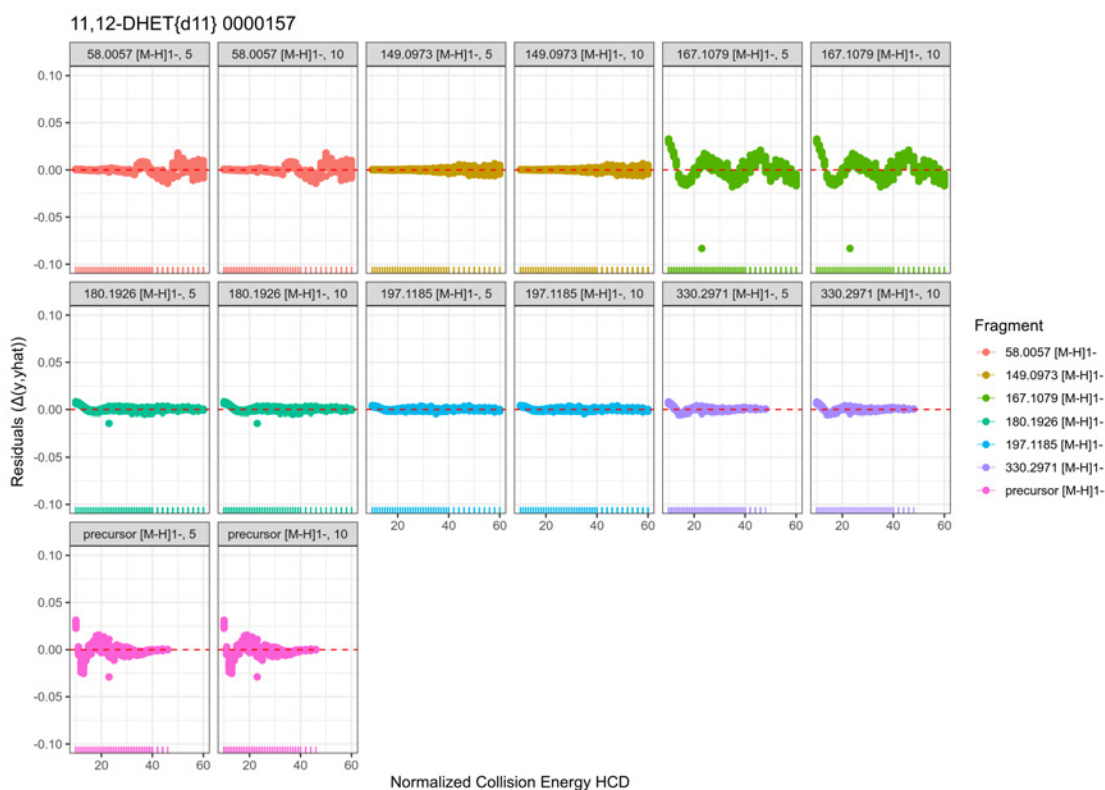


Figure 12. Residuals of nonlinear fit

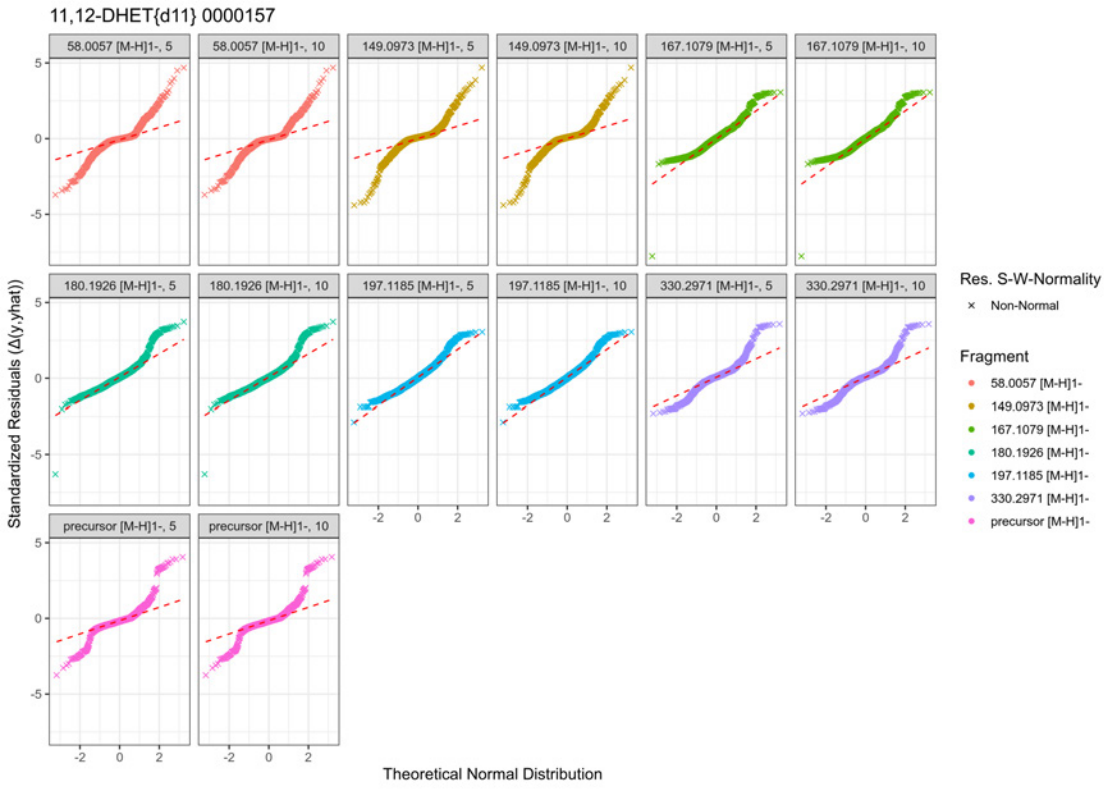


Figure 13. Quantile-quantile plot of residuals

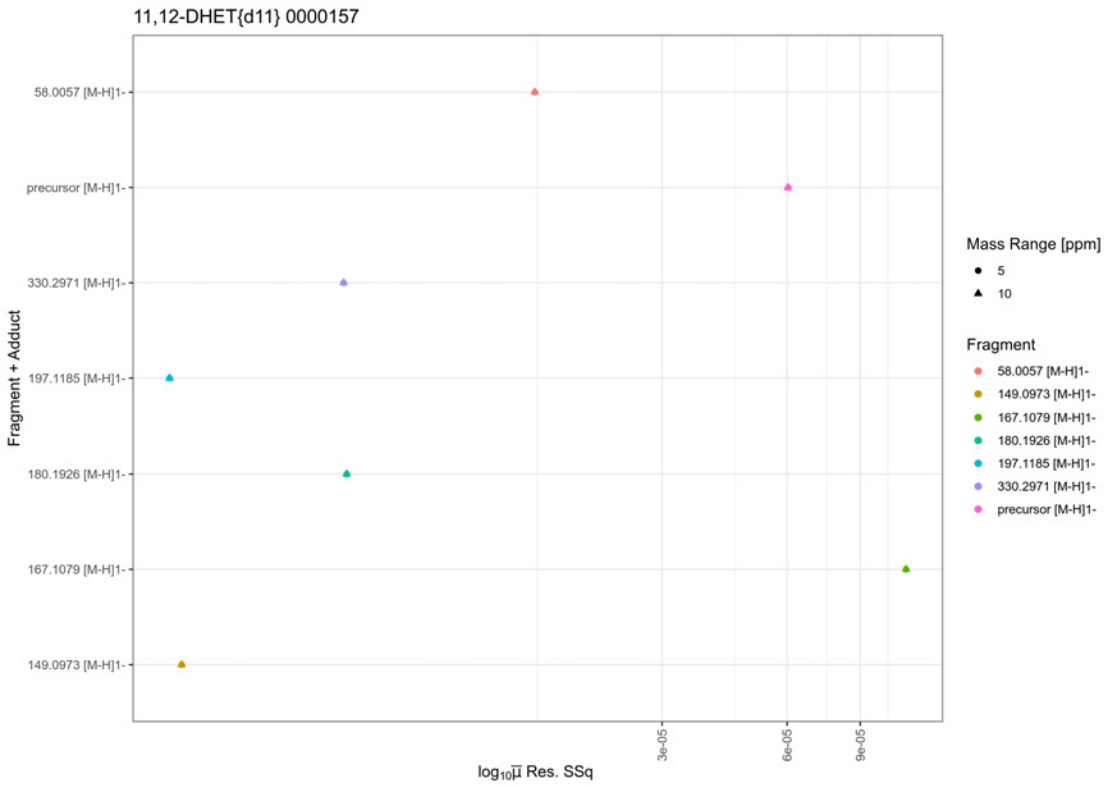


Figure 14. Normalized sum-of-squares of the residuals



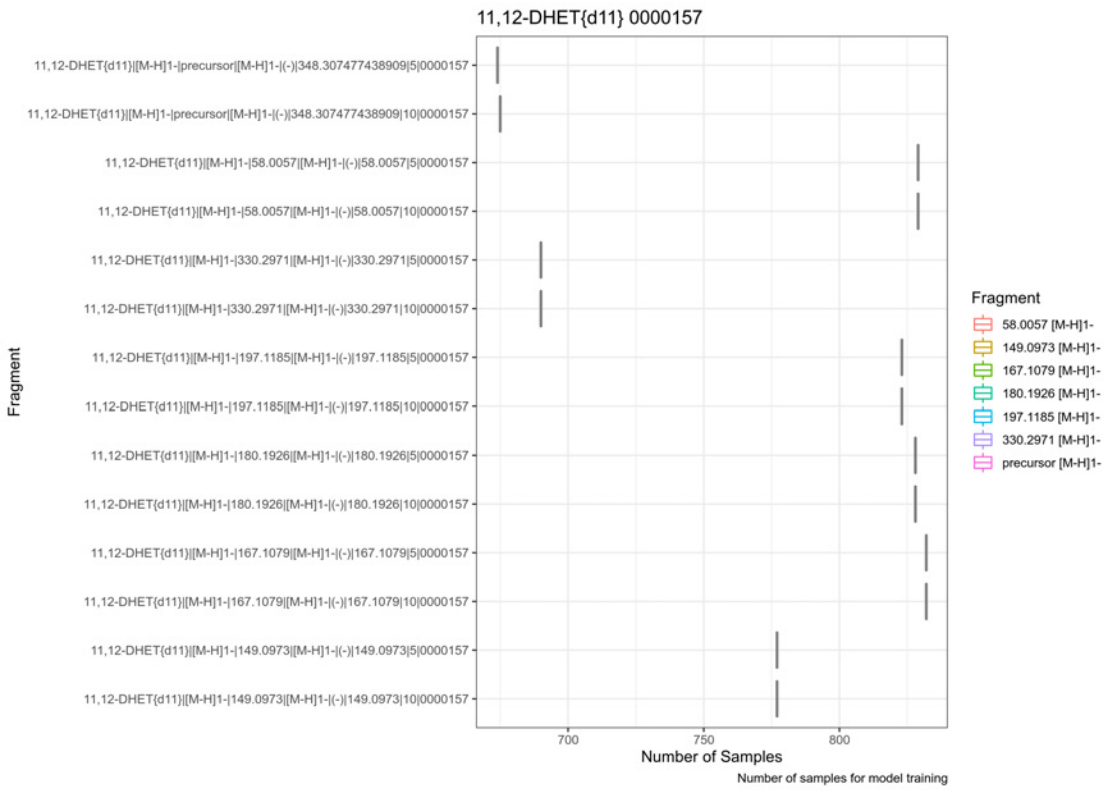


Figure 15. Number of samples used for training per combination Id

# 1.4. 11-HDoHE [M-H]1- 0001275

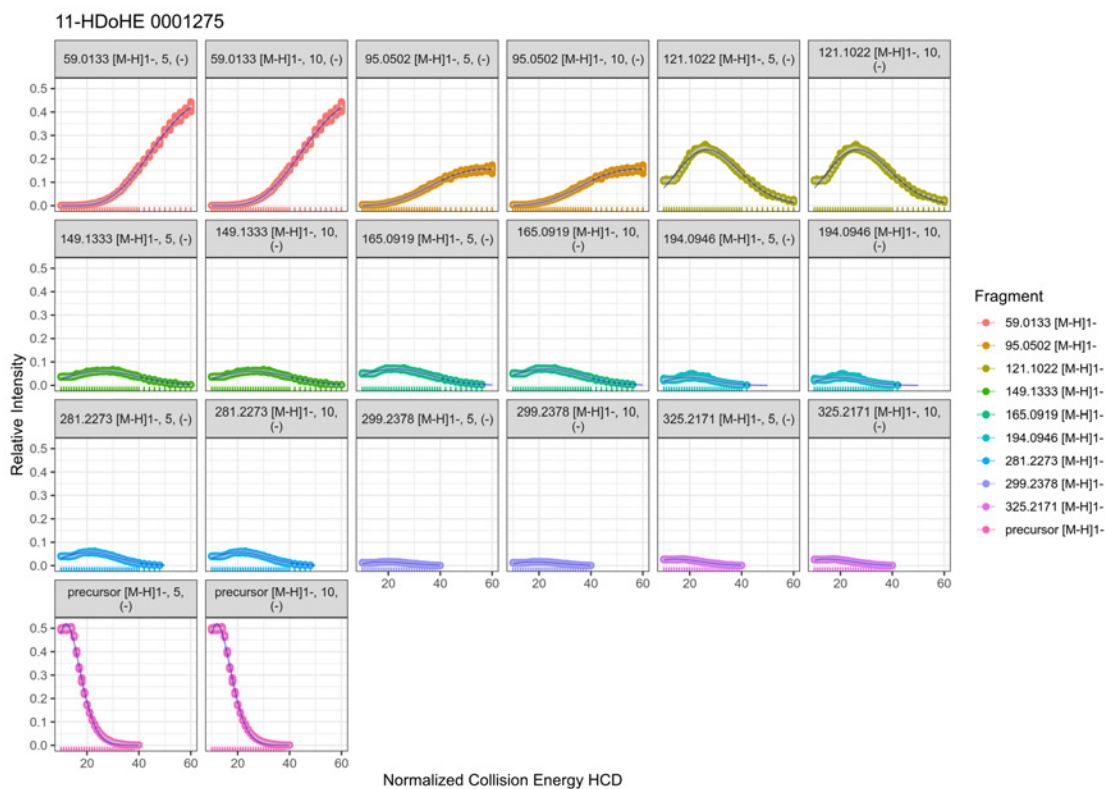


Figure 16. Nonlinear fit

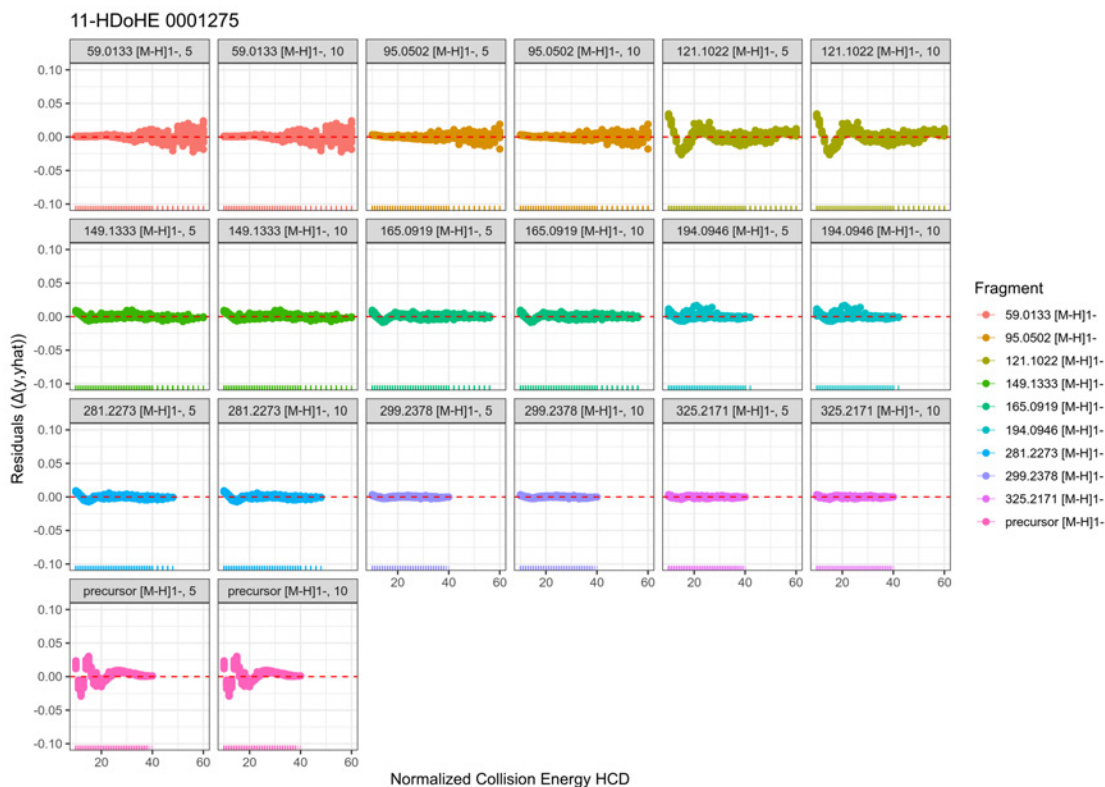


Figure 17. Residuals of nonlinear fit

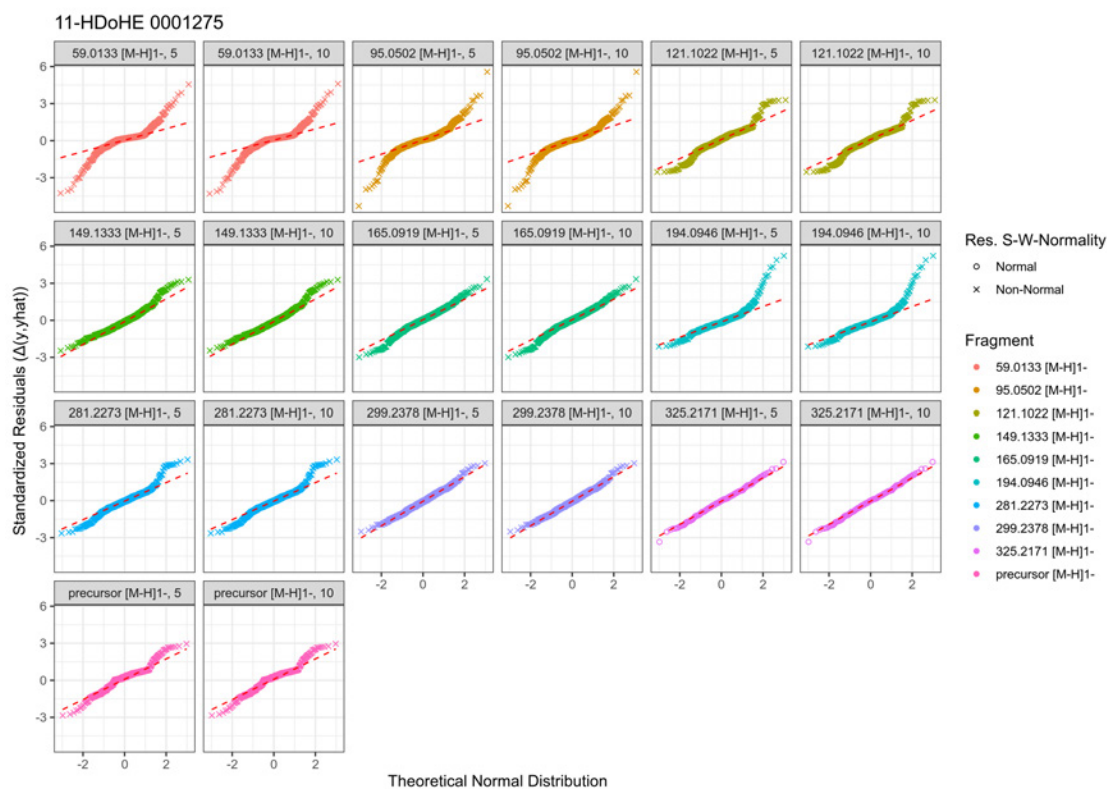


Figure 18. Quantile-quantile plot of residuals

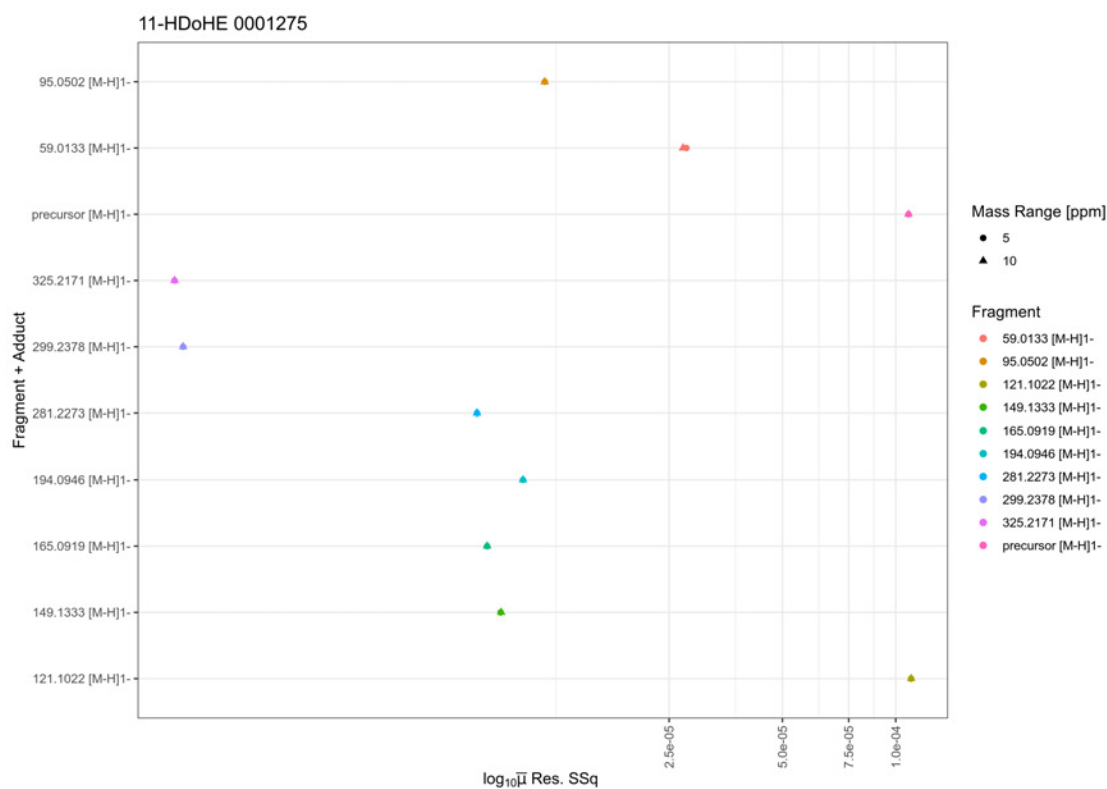


Figure 19. Normalized sum-of-squares of the residuals

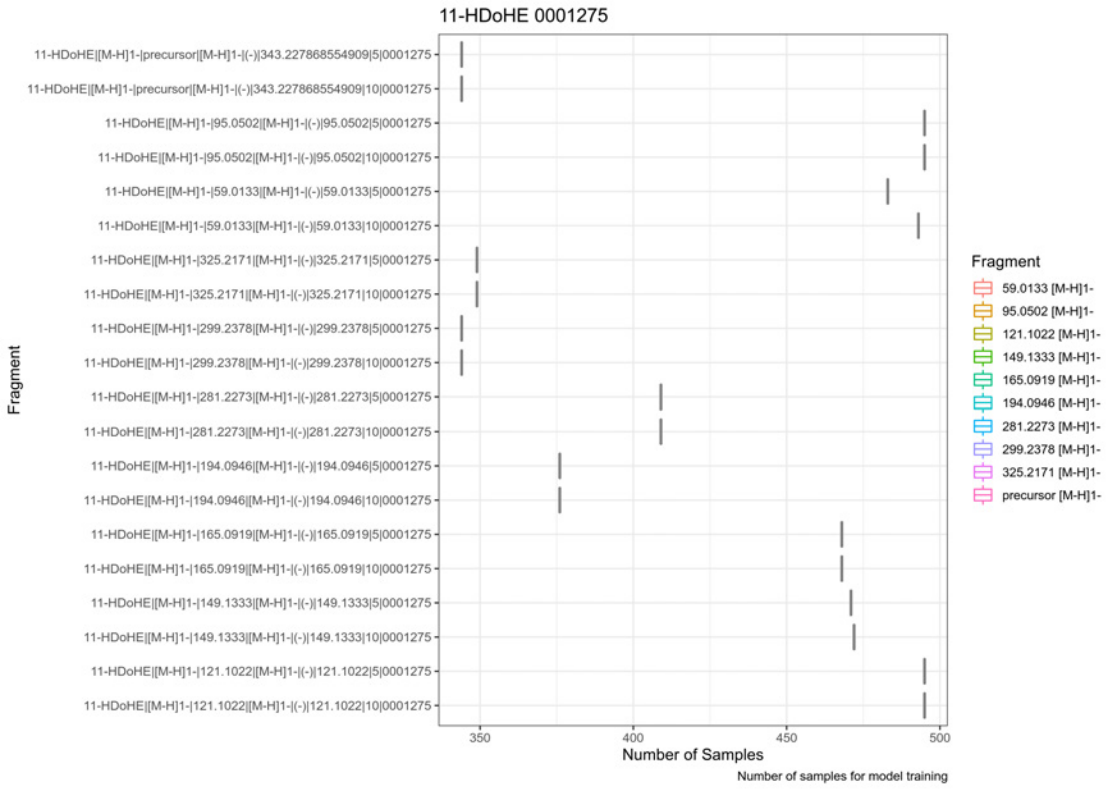


Figure 20. Number of samples used for training per combination Id

# 1.5. 11-HETE [M-H]1- 0001289

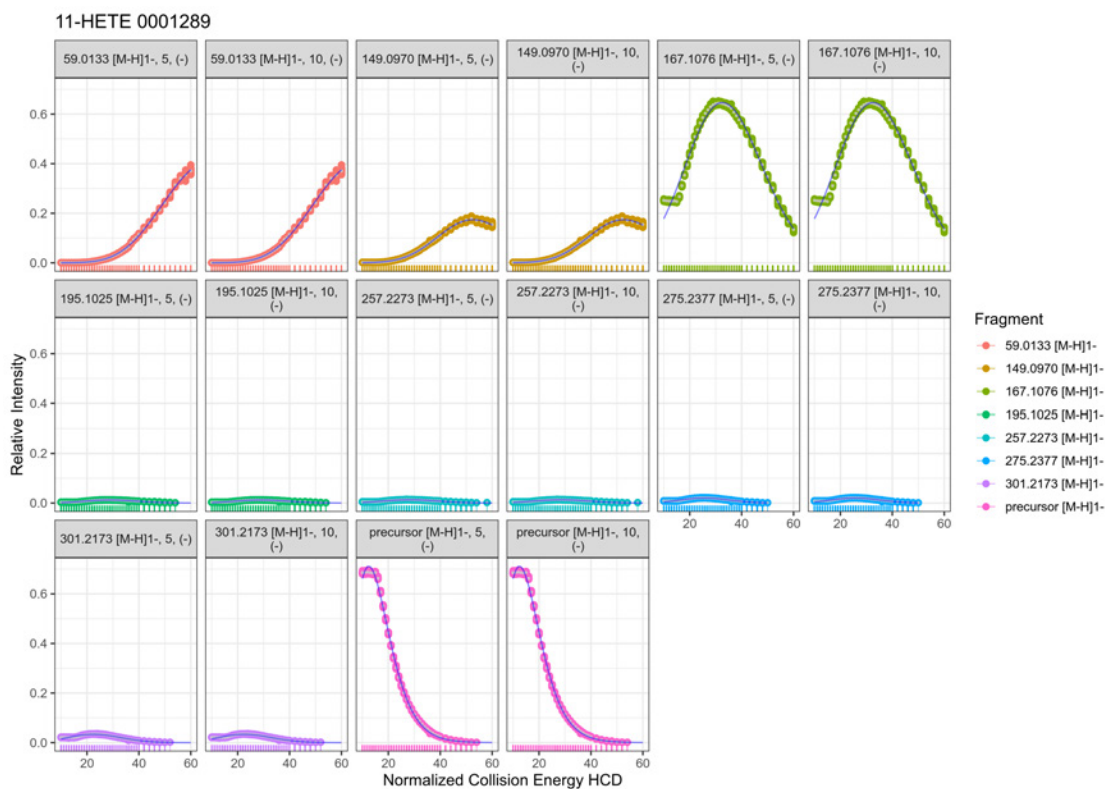


Figure 21. Nonlinear fit



Figure 22. Residuals of nonlinear fit

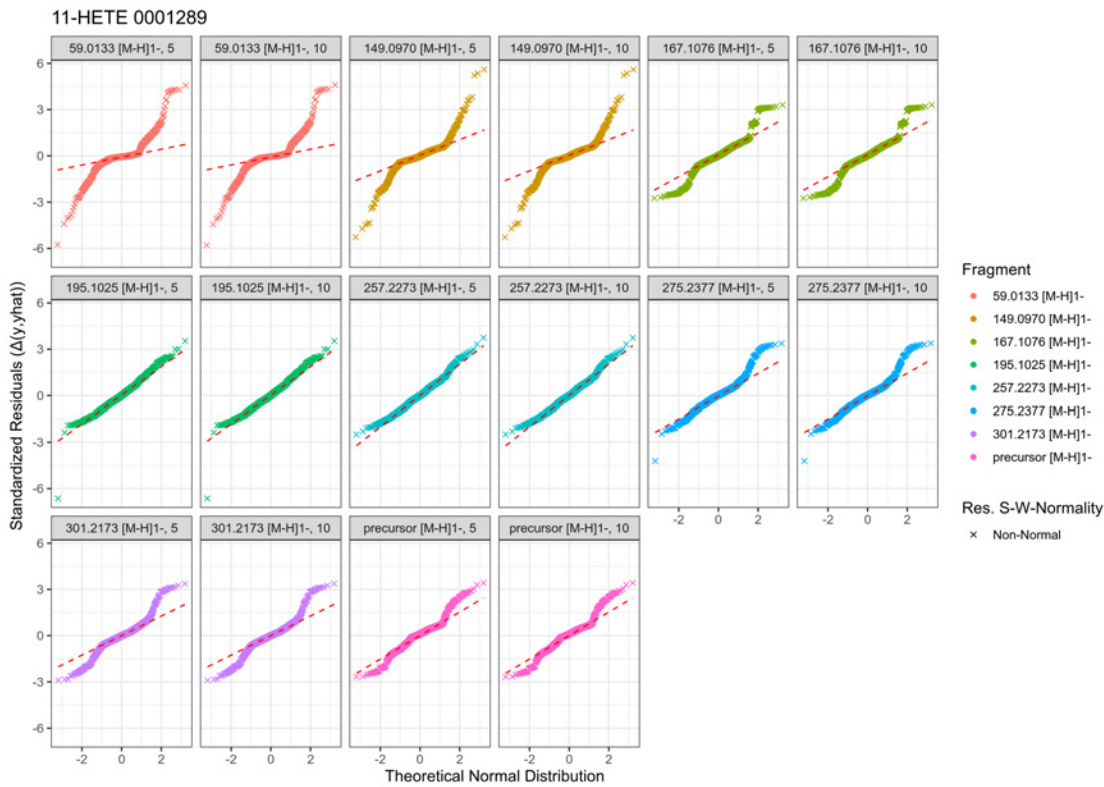


Figure 23. Quantile-quantile plot of residuals

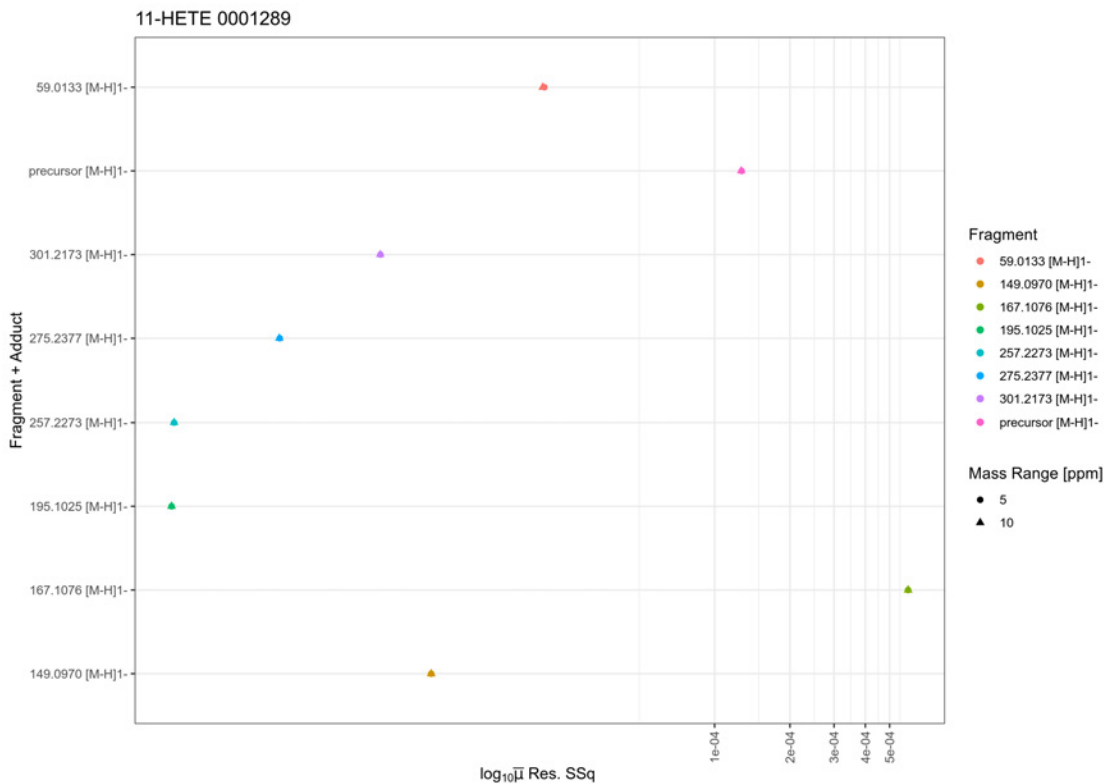


Figure 24. Normalized sum-of-squares of the residuals

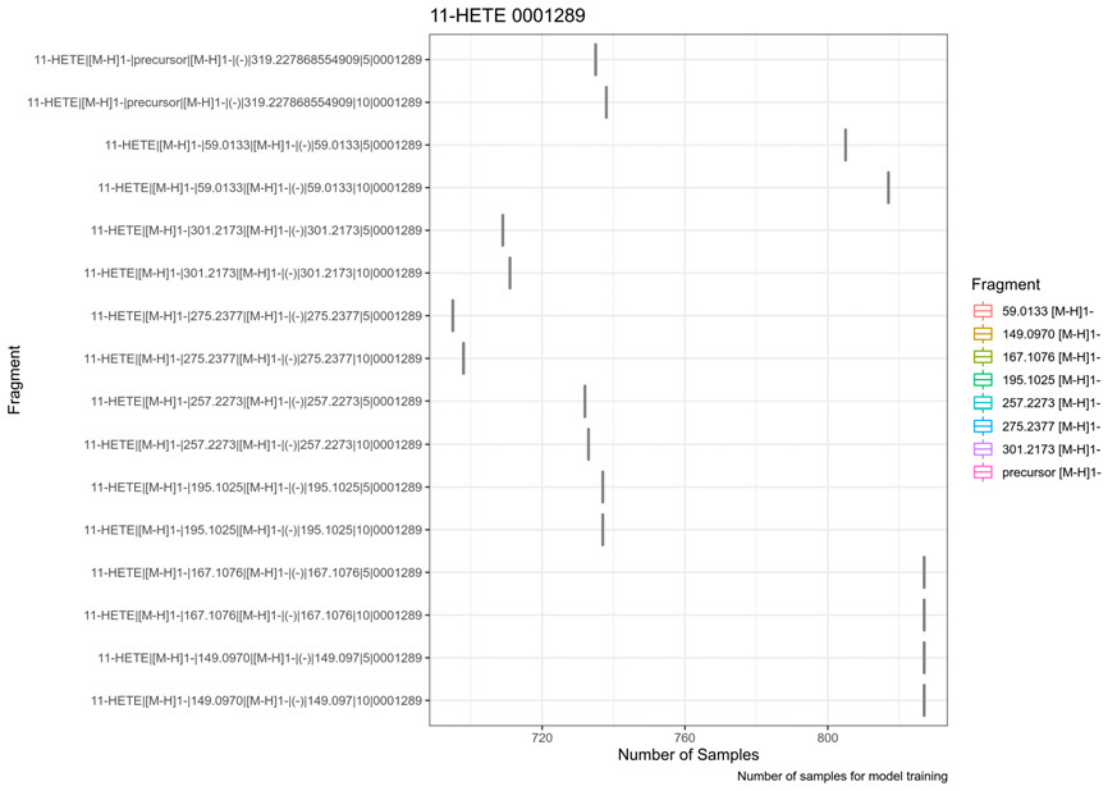


Figure 25. Number of samples used for training per combination Id



## 1.6. 12(13)-EpOME{d4} [M-H]1- 0001303

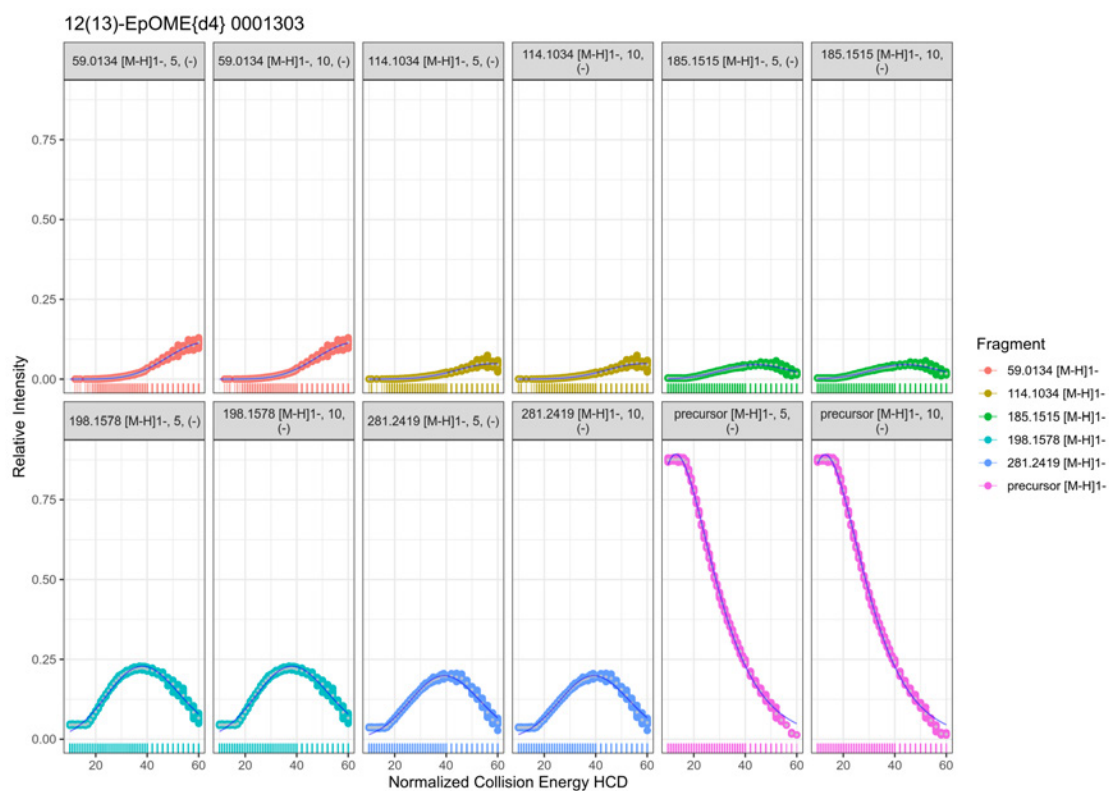


Figure 26. Nonlinear fit



Figure 27. Residuals of nonlinear fit



12(13)-EpOME{d4} 0001303

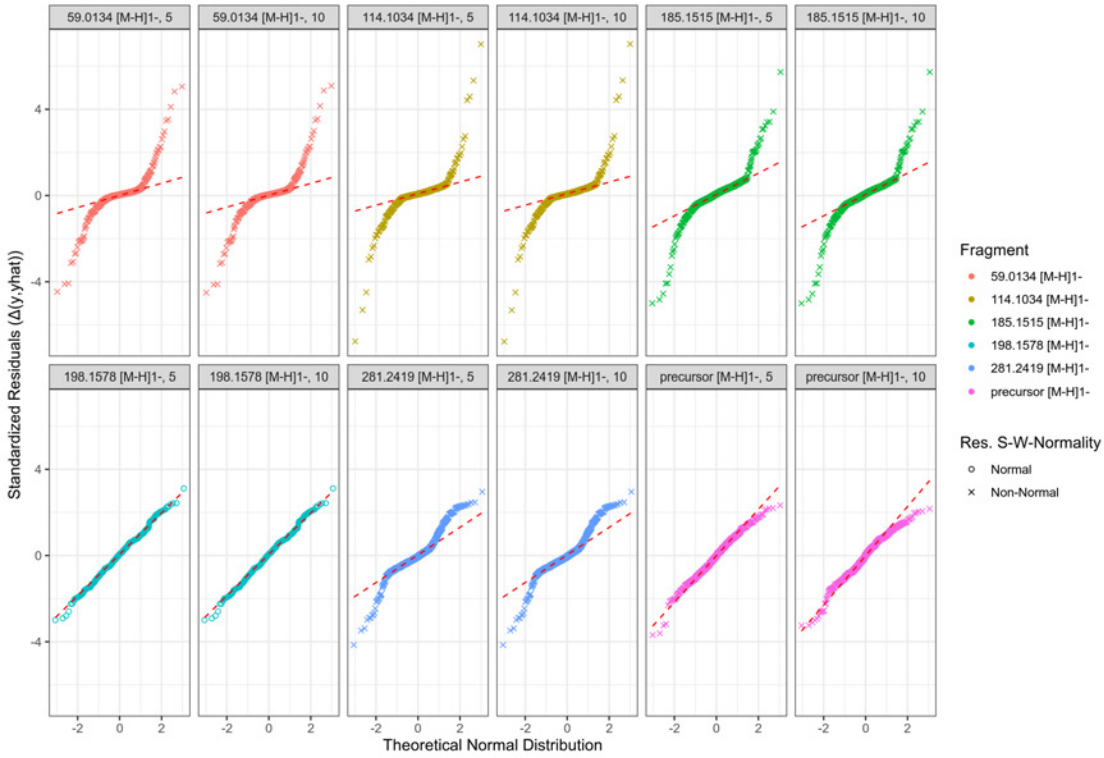


Figure 28. Quantile-quantile plot of residuals

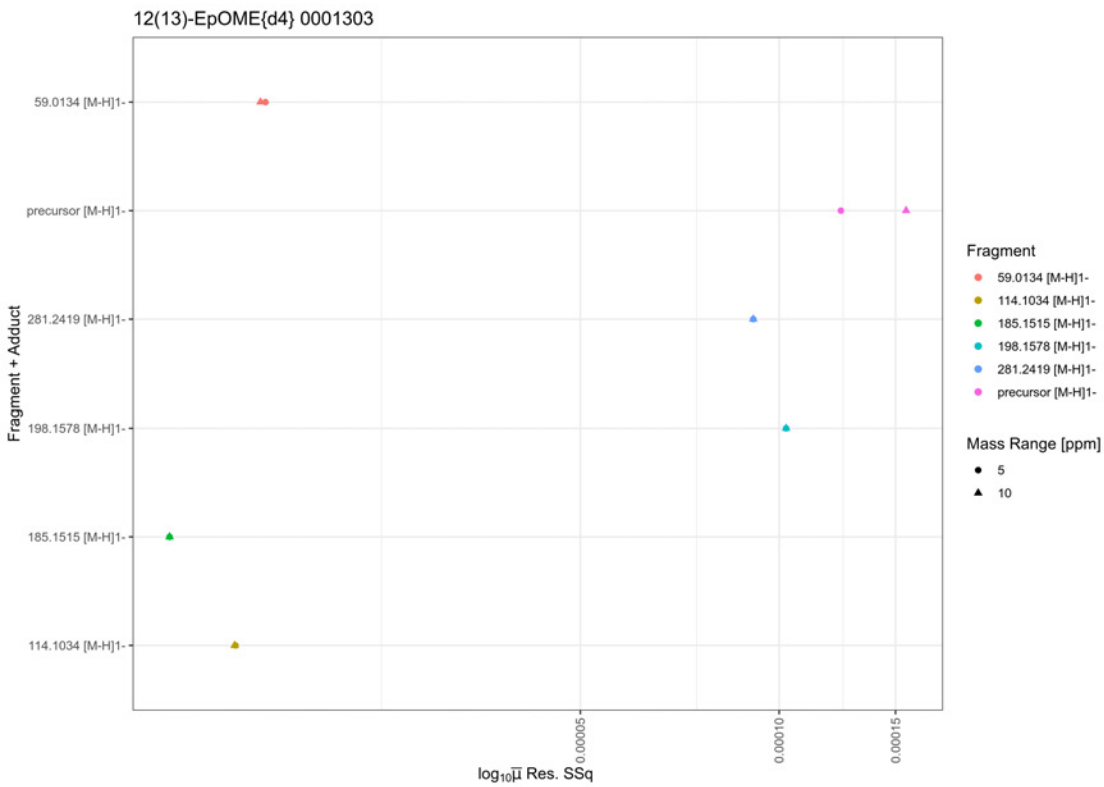


Figure 29. Normalized sum-of-squares of the residuals

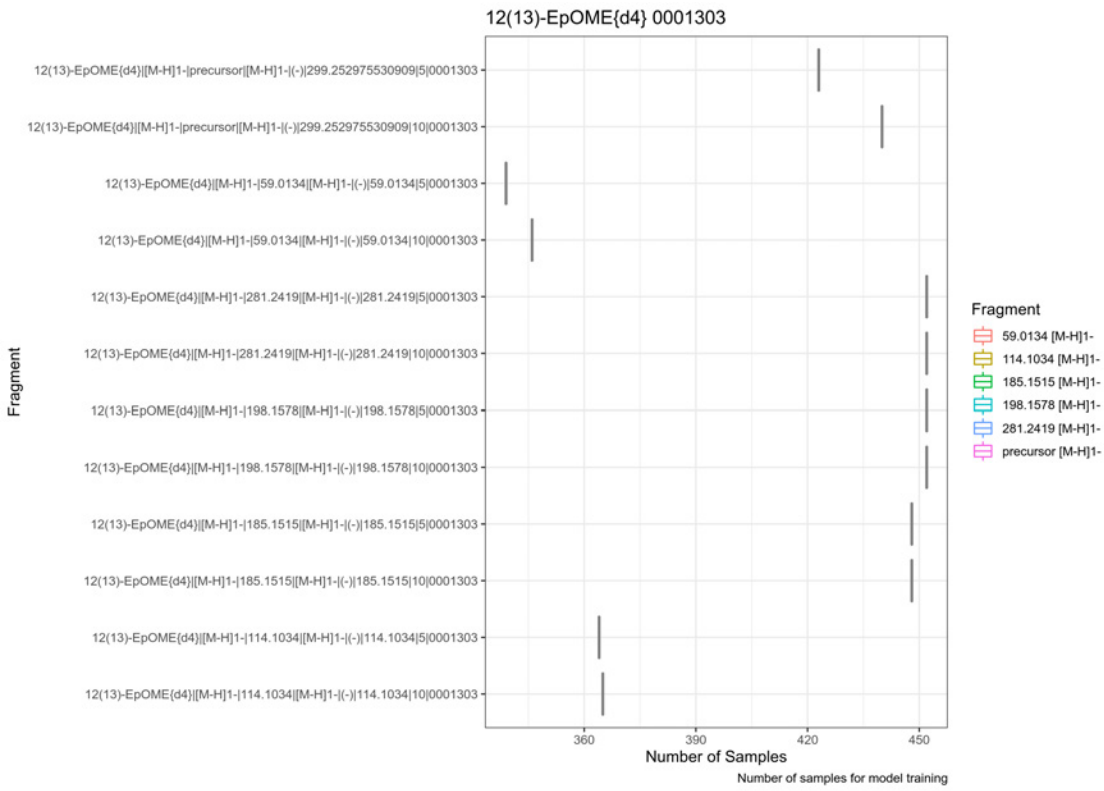


Figure 30. Number of samples used for training per combination Id

# 1.7. 12-HEPE [M-H]1- 0001281

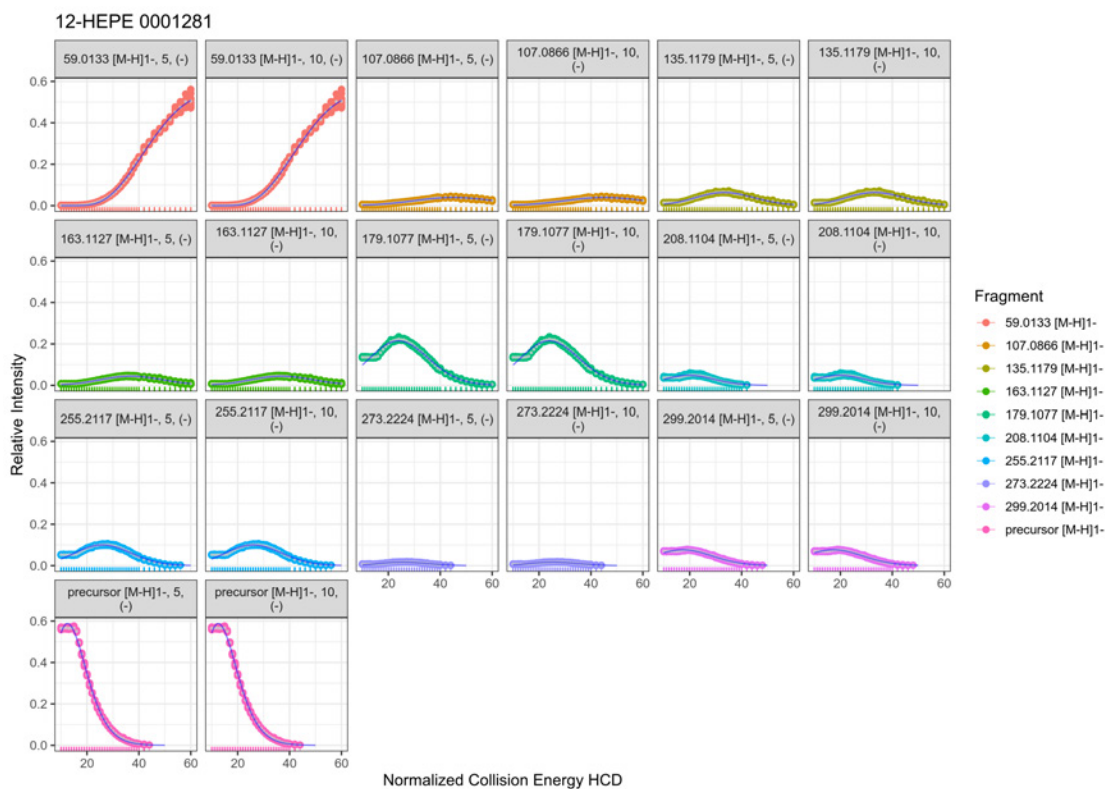


Figure 31. Nonlinear fit

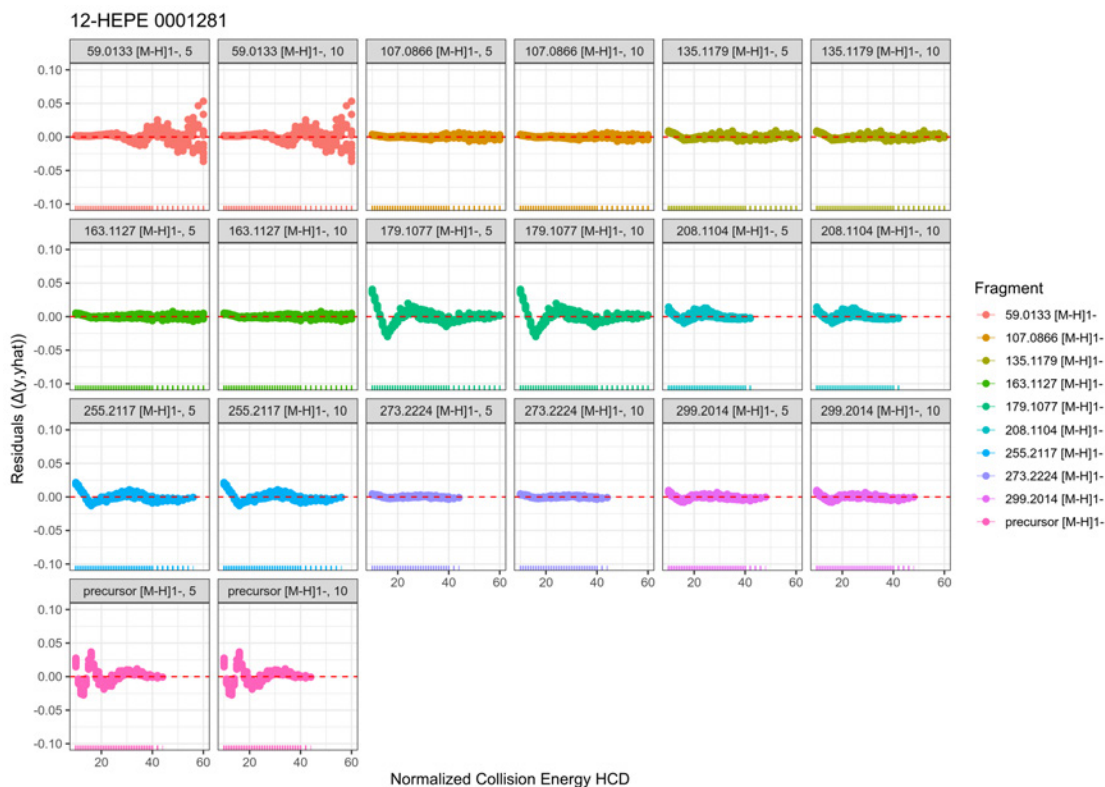


Figure 32. Residuals of nonlinear fit

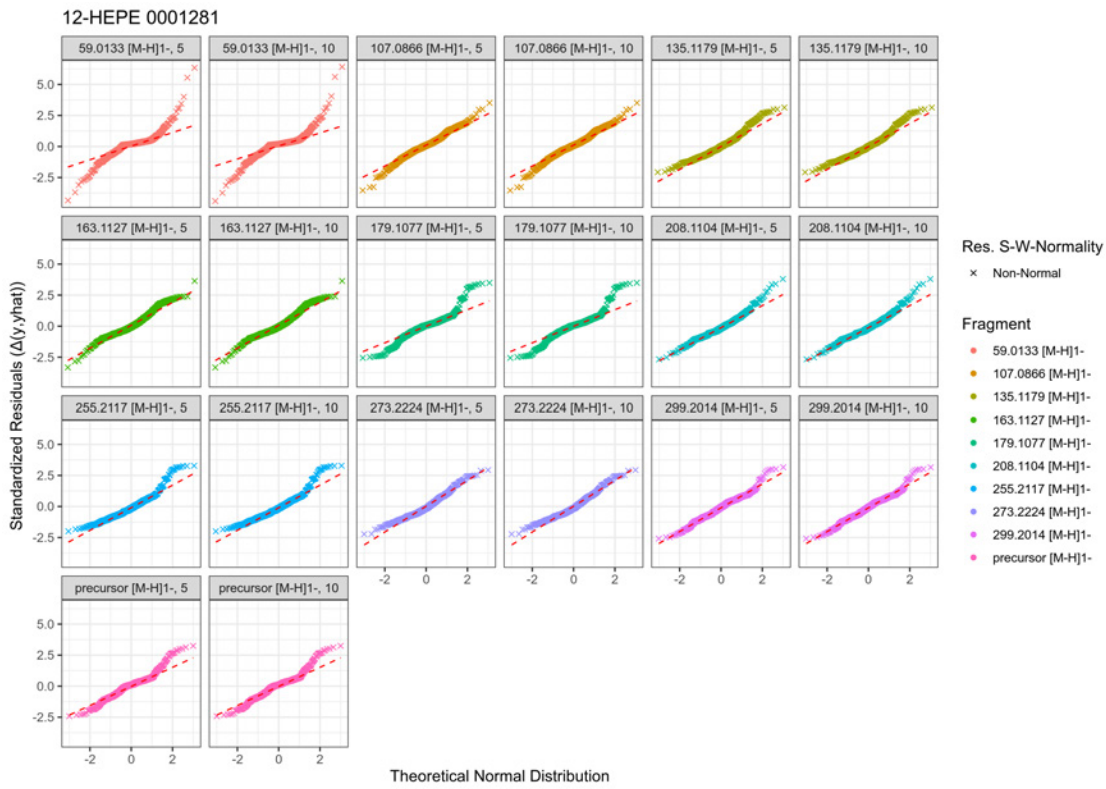


Figure 33. Quantile-quantile plot of residuals

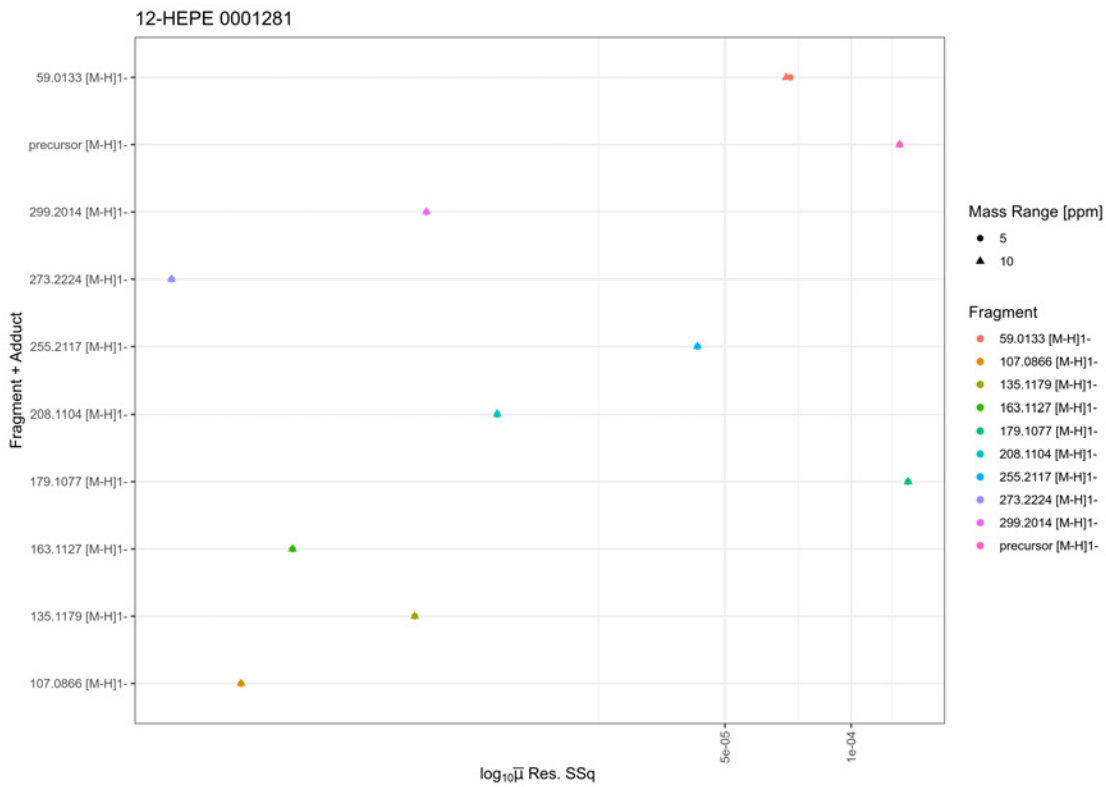


Figure 34. Normalized sum-of-squares of the residuals

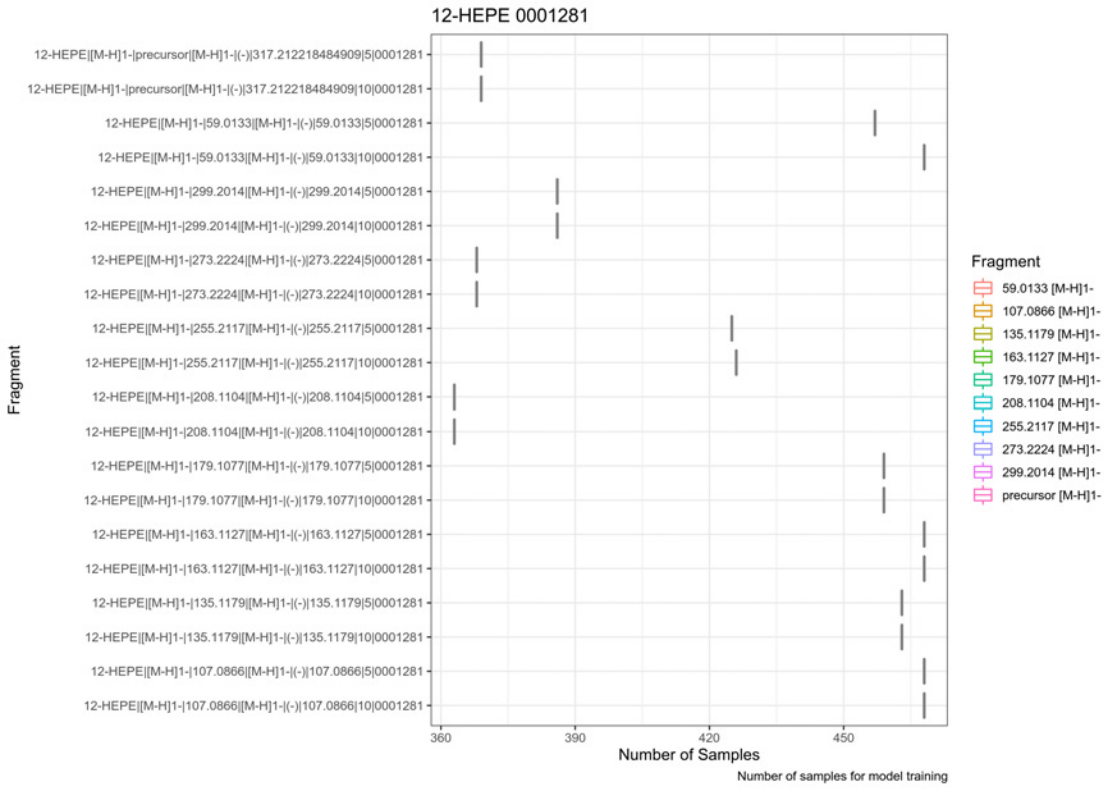


Figure 35. Number of samples used for training per combination Id

# 1.8. 12-HETE{d8} [M-H]1- 0001295

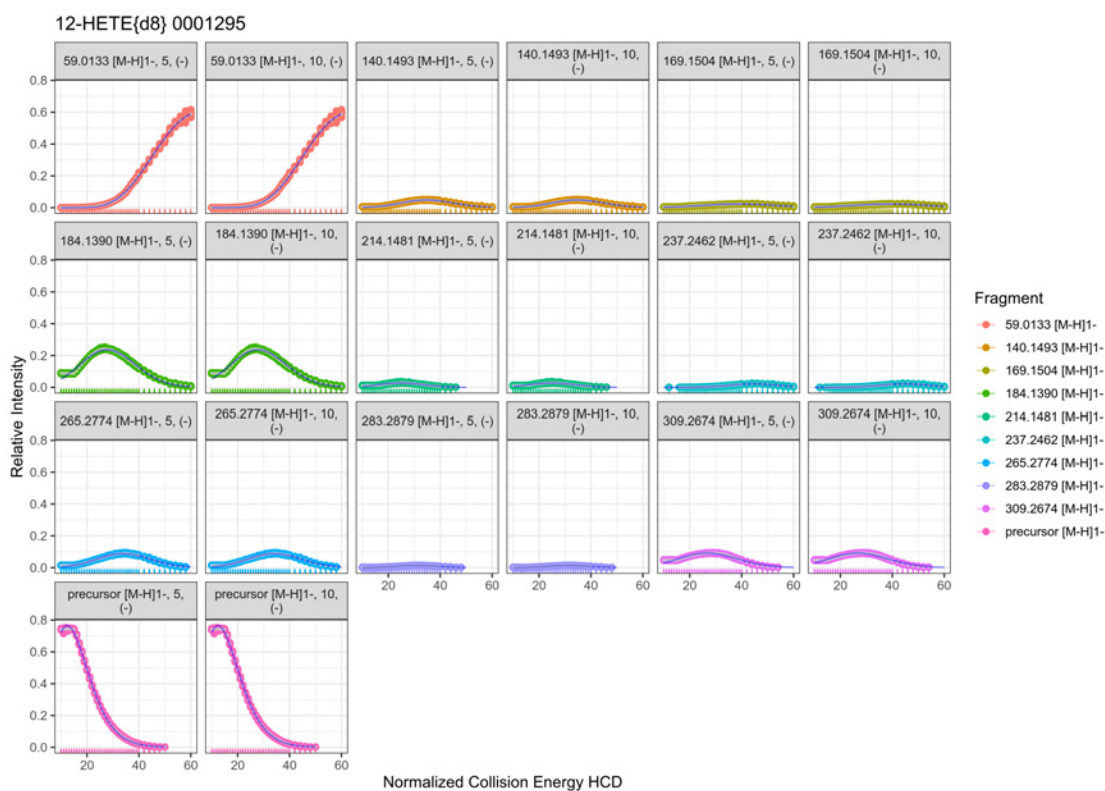


Figure 36. Nonlinear fit

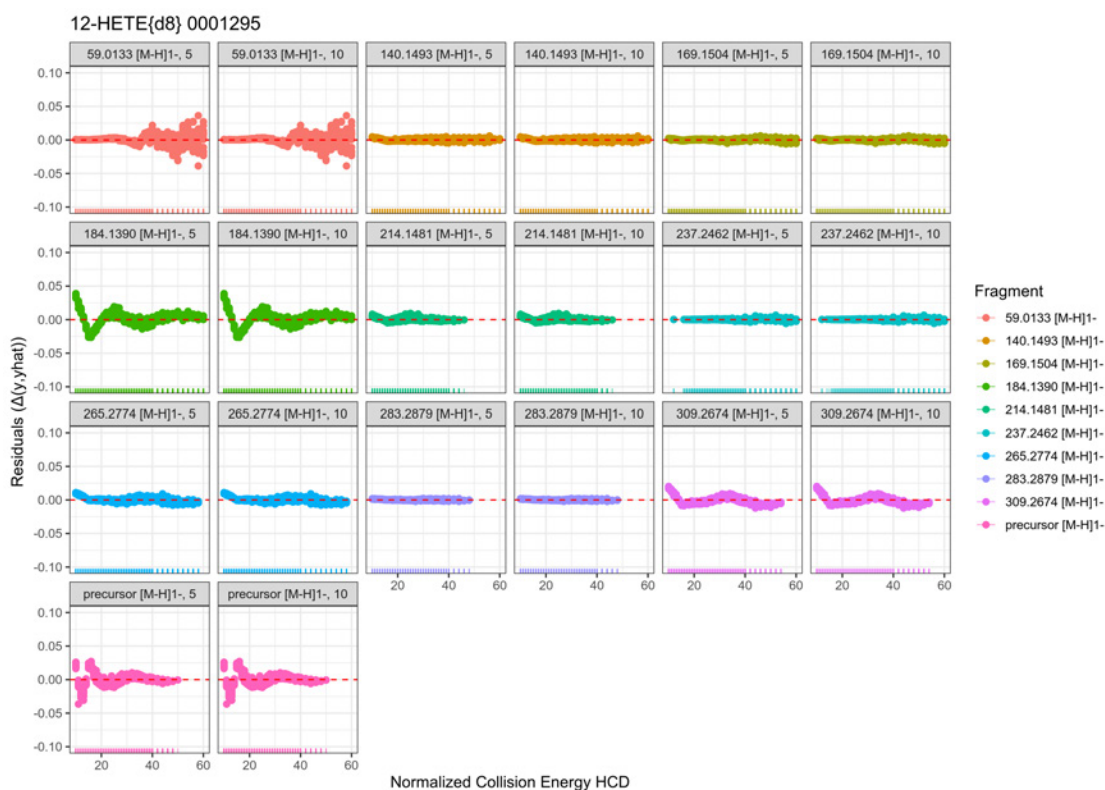


Figure 37. Residuals of nonlinear fit



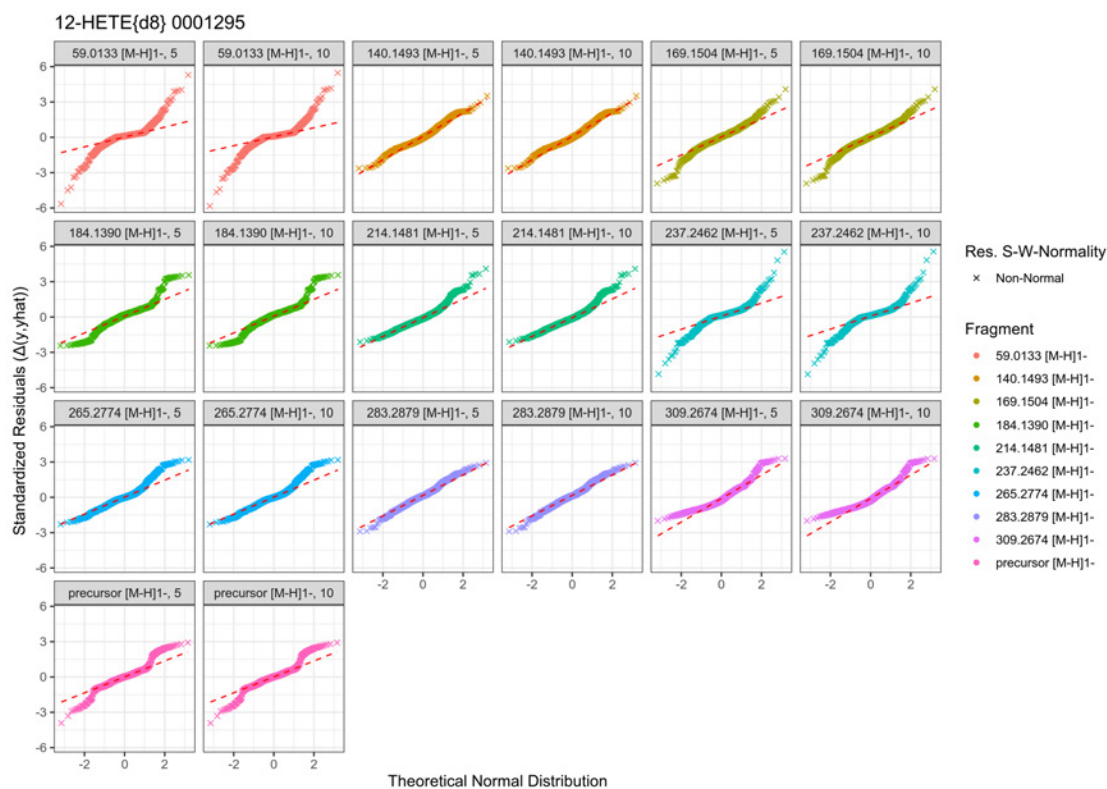


Figure 38. Quantile-quantile plot of residuals

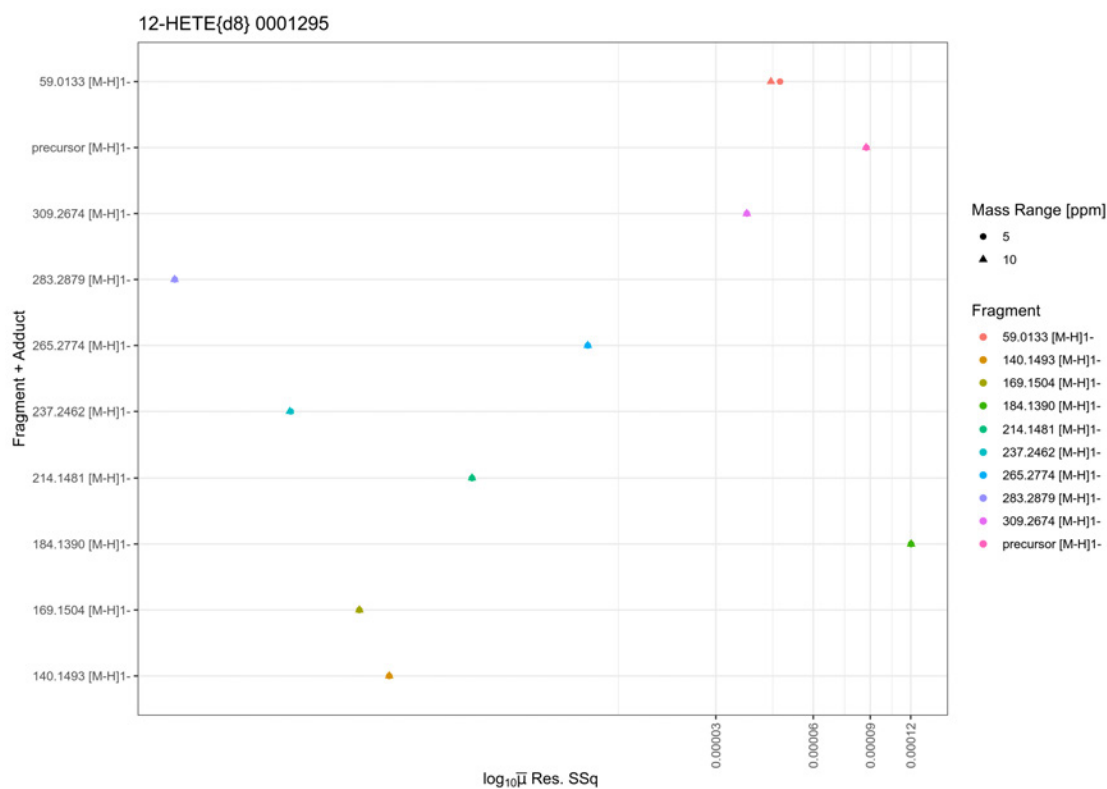


Figure 39. Normalized sum-of-squares of the residuals

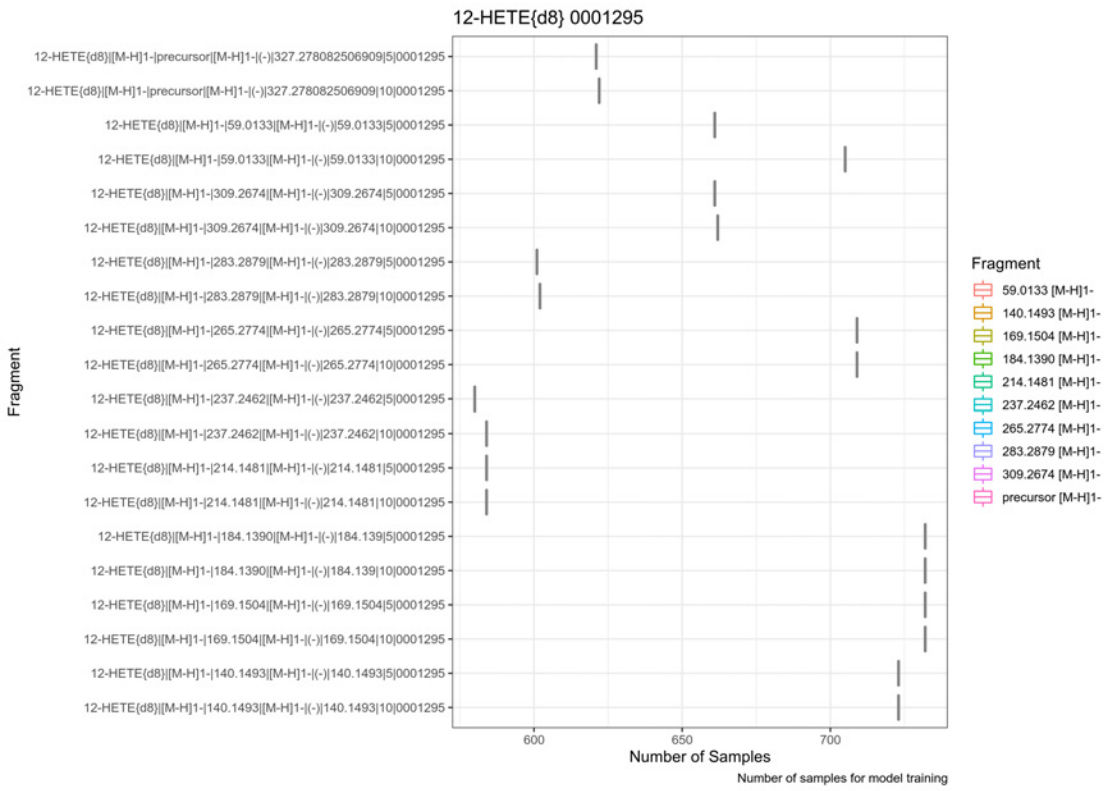


Figure 40. Number of samples used for training per combination Id



# 1.9. 12-HHTrE [M-H]1- 0001347

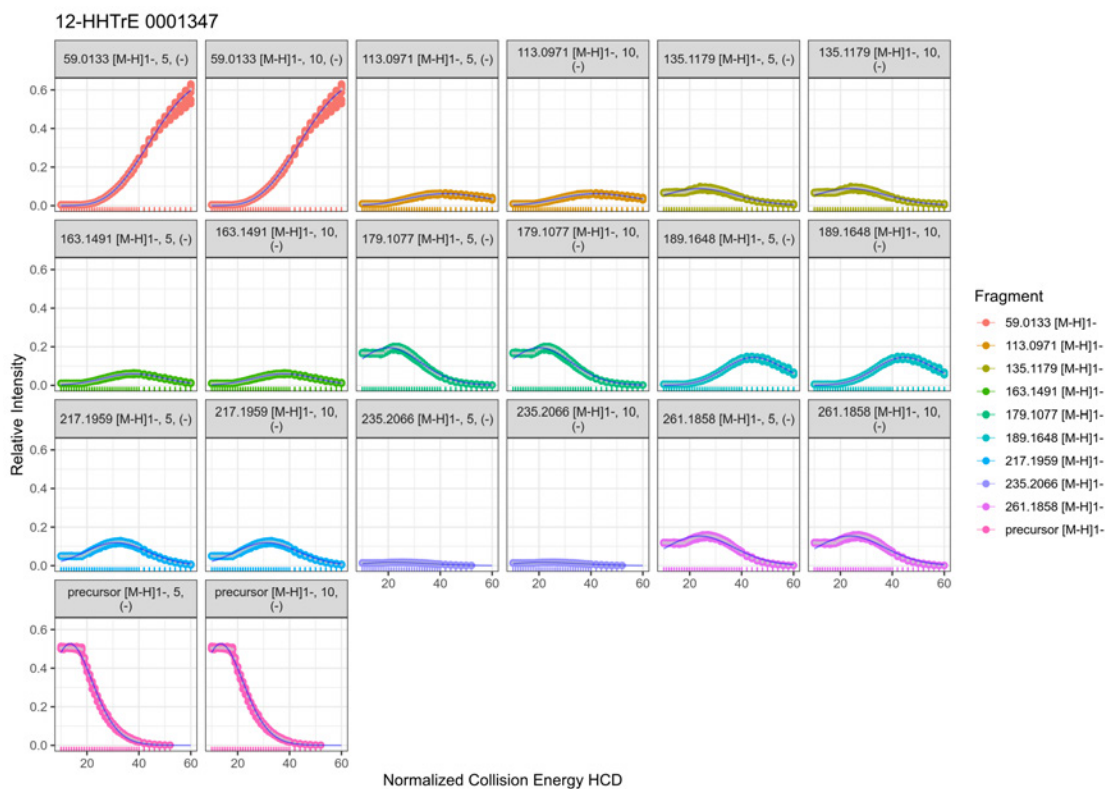


Figure 41. Nonlinear fit

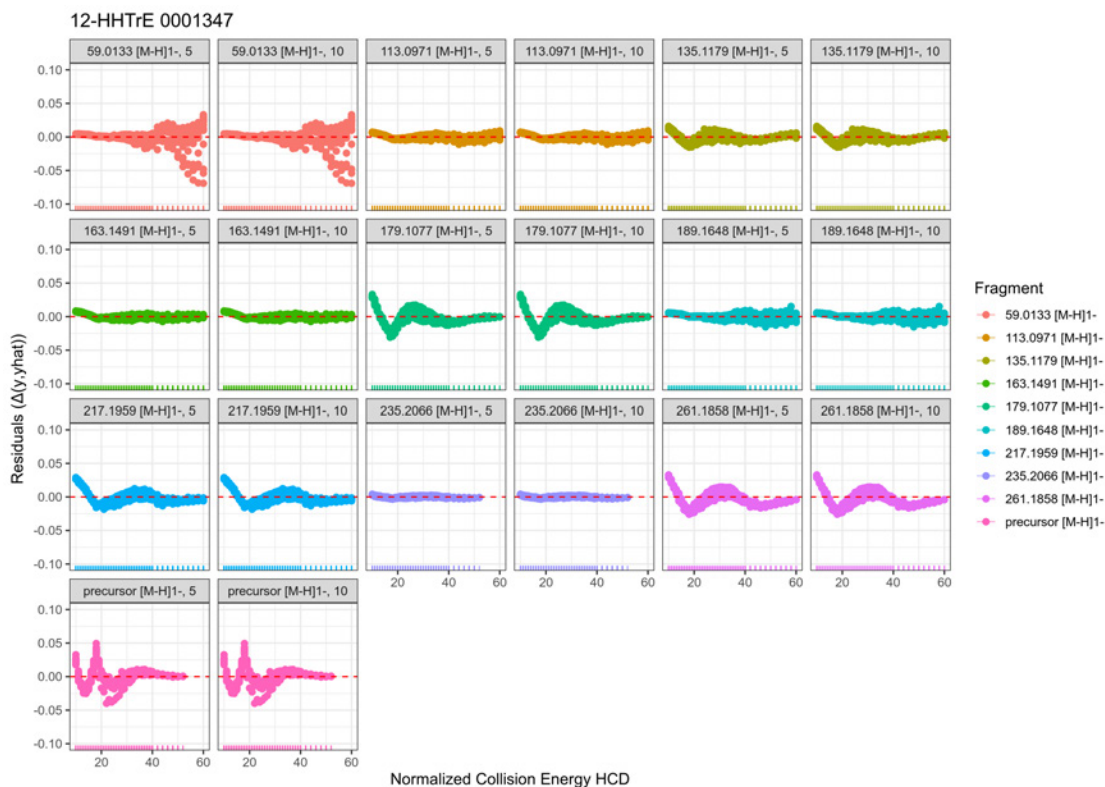


Figure 42. Residuals of nonlinear fit

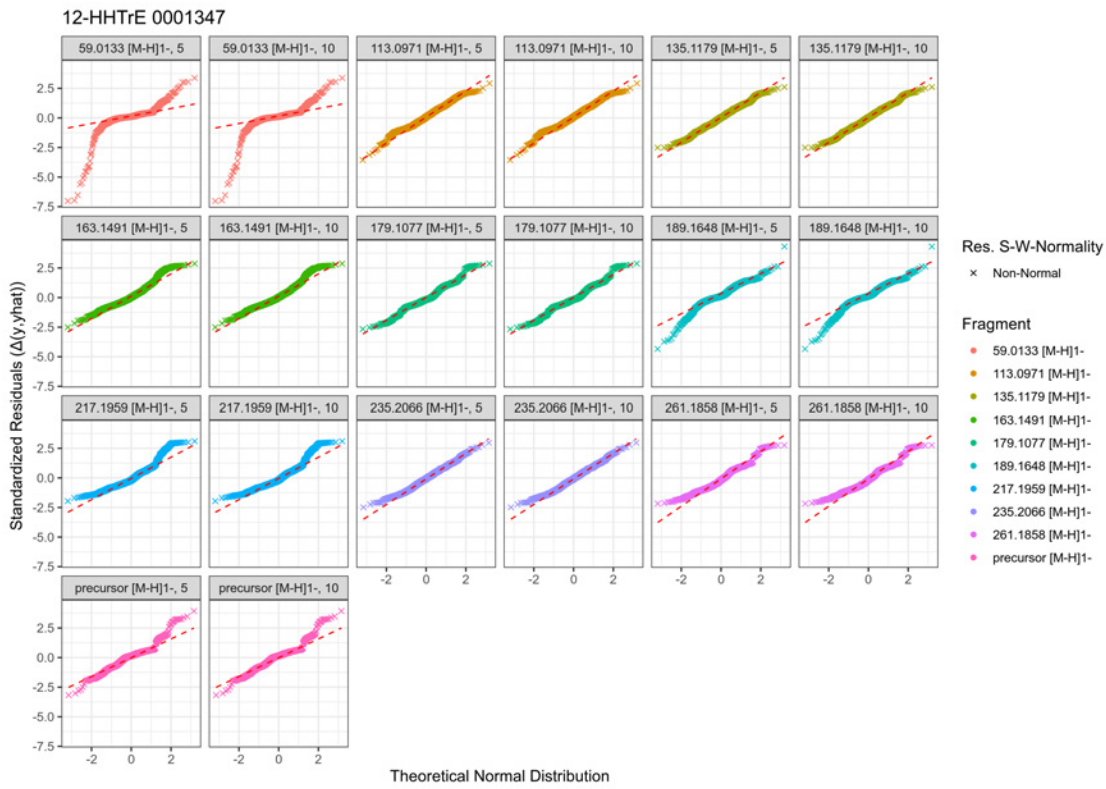


Figure 43. Quantile-quantile plot of residuals

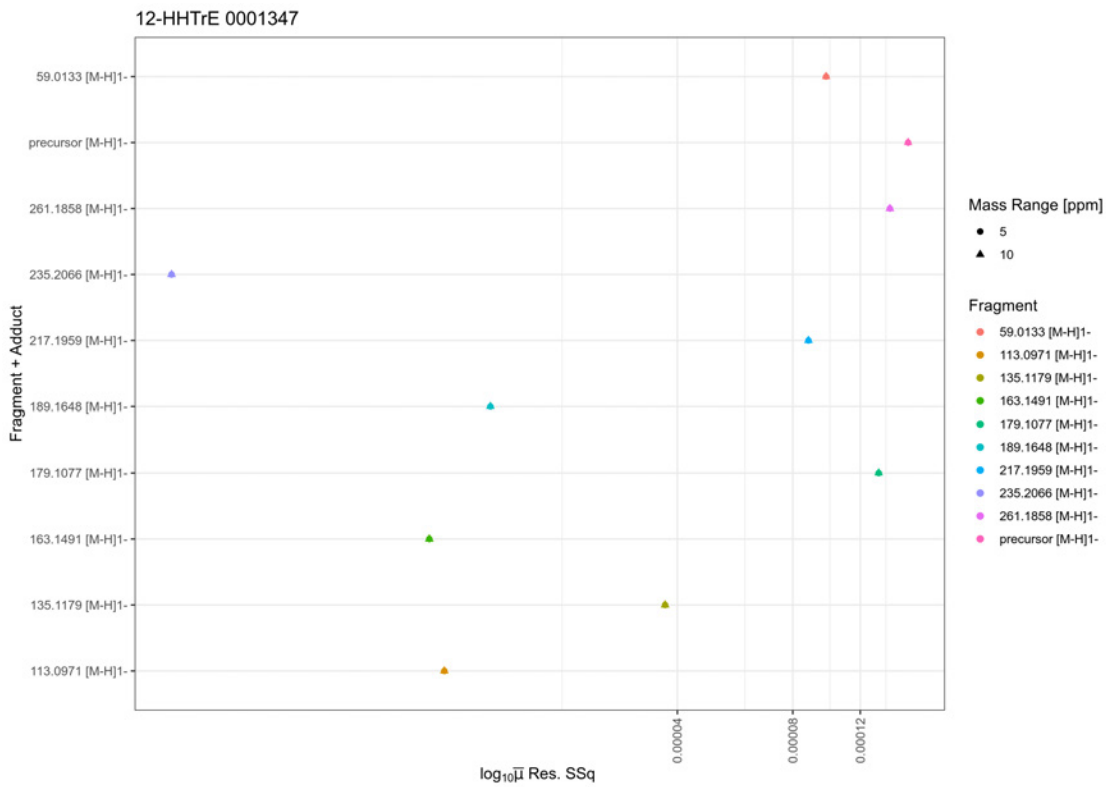


Figure 44. Normalized sum-of-squares of the residuals

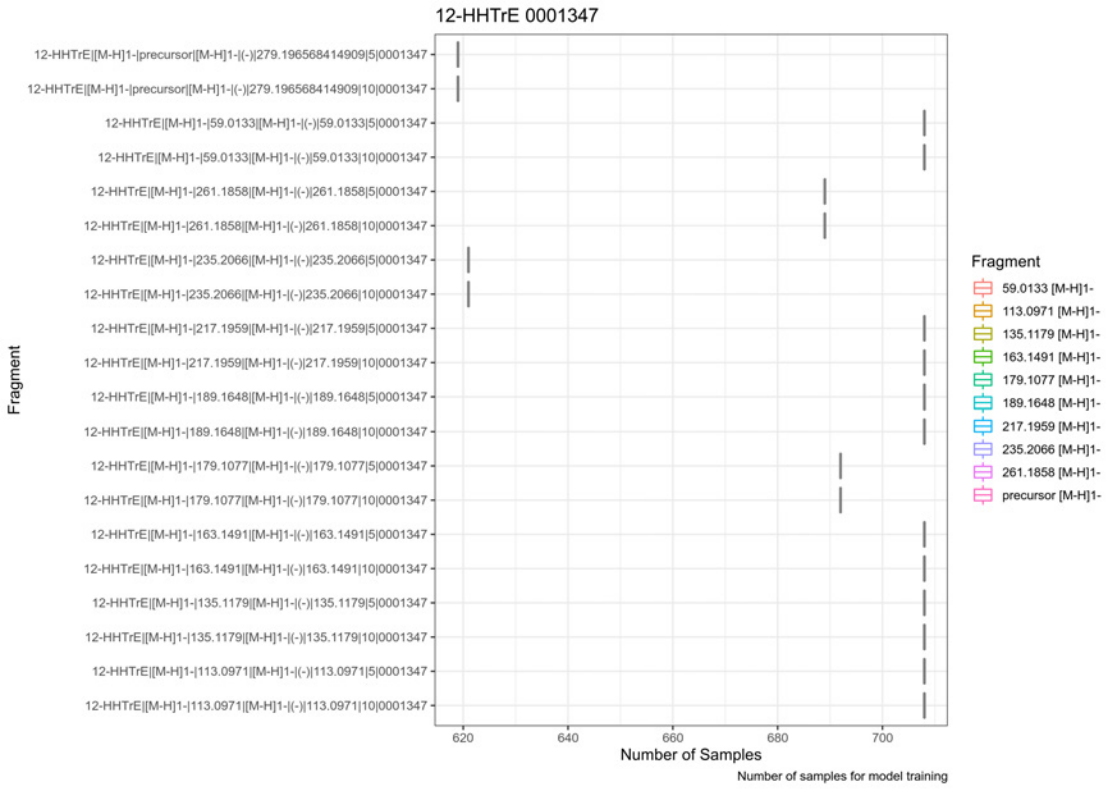


Figure 45. Number of samples used for training per combination Id

# 1.10. 12-OxoETE [M-H]1- 0001283

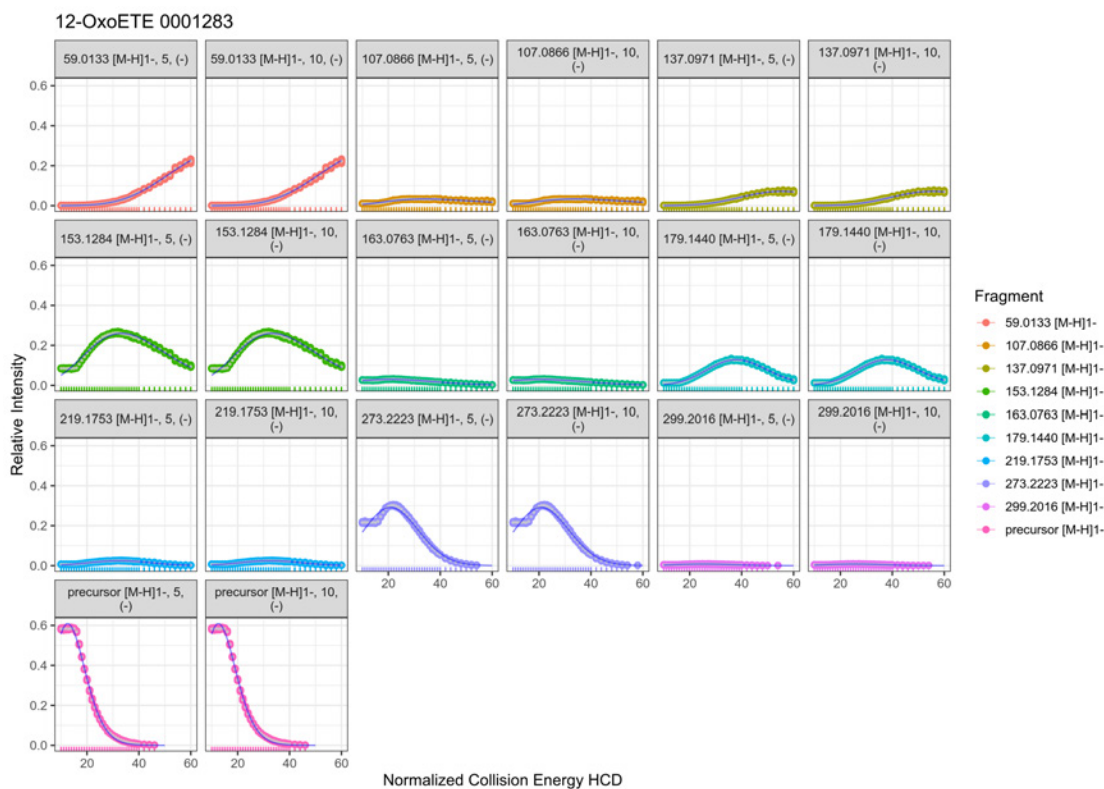


Figure 46. Nonlinear fit

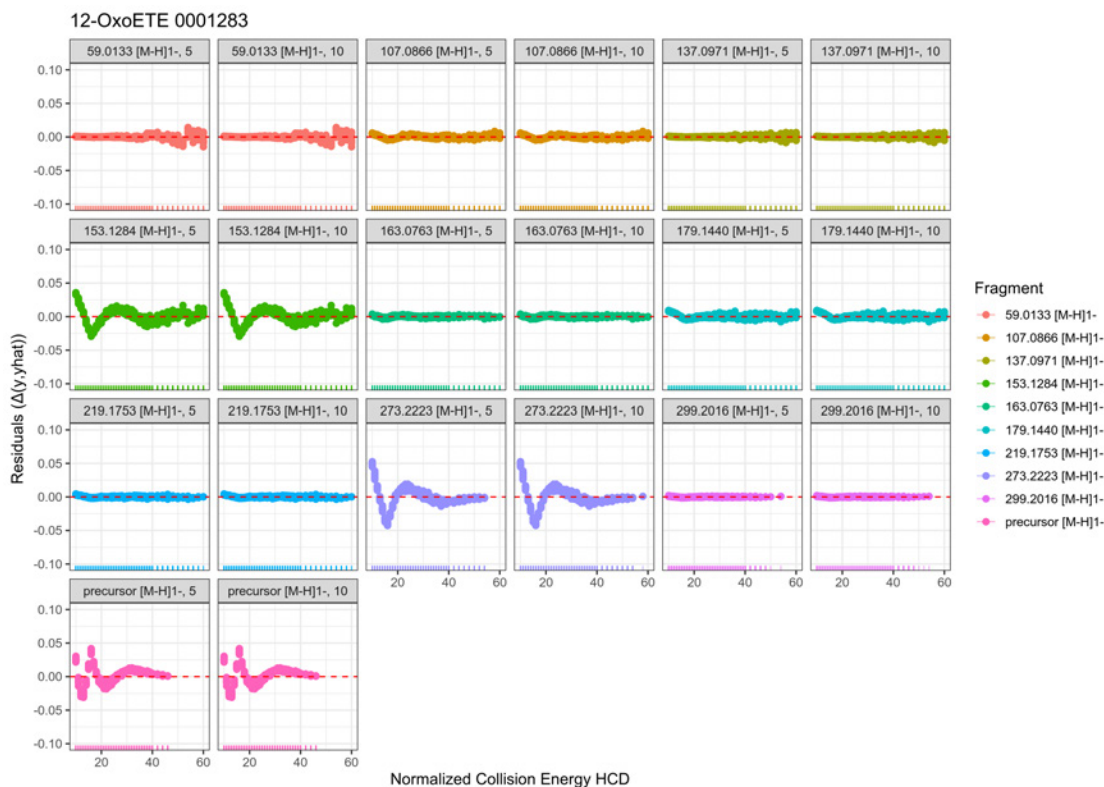


Figure 47. Residuals of nonlinear fit

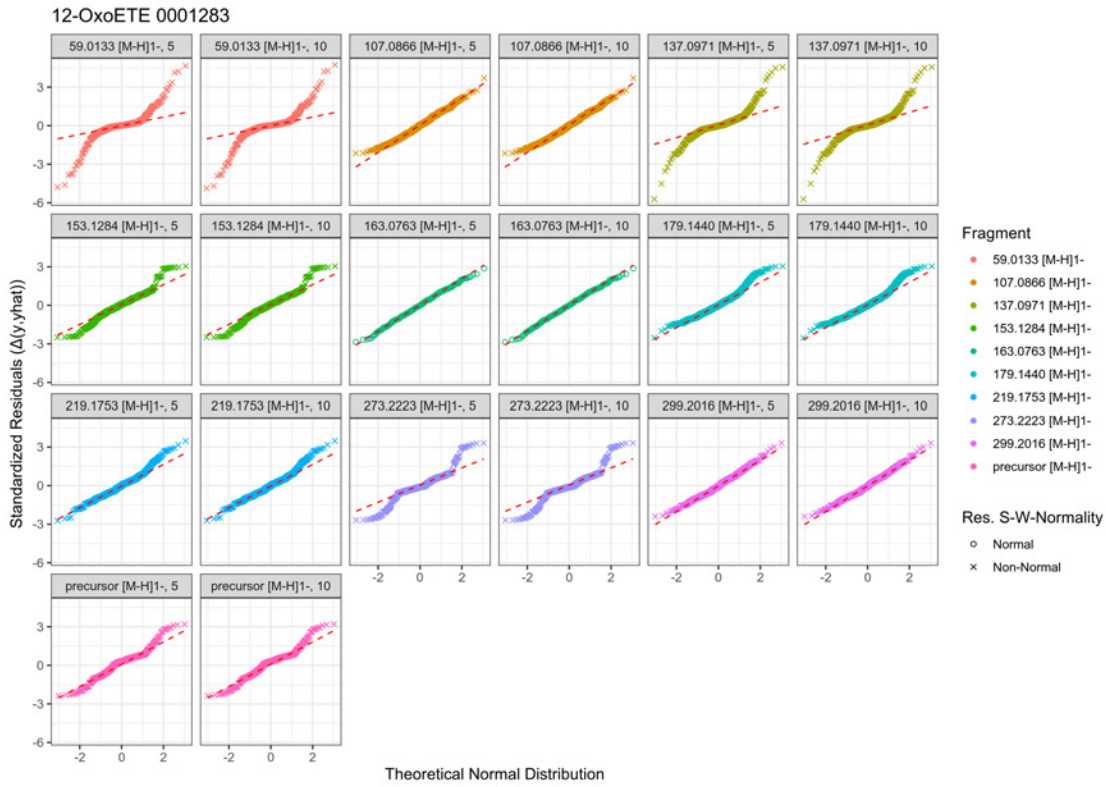


Figure 48. Quantile-quantile plot of residuals

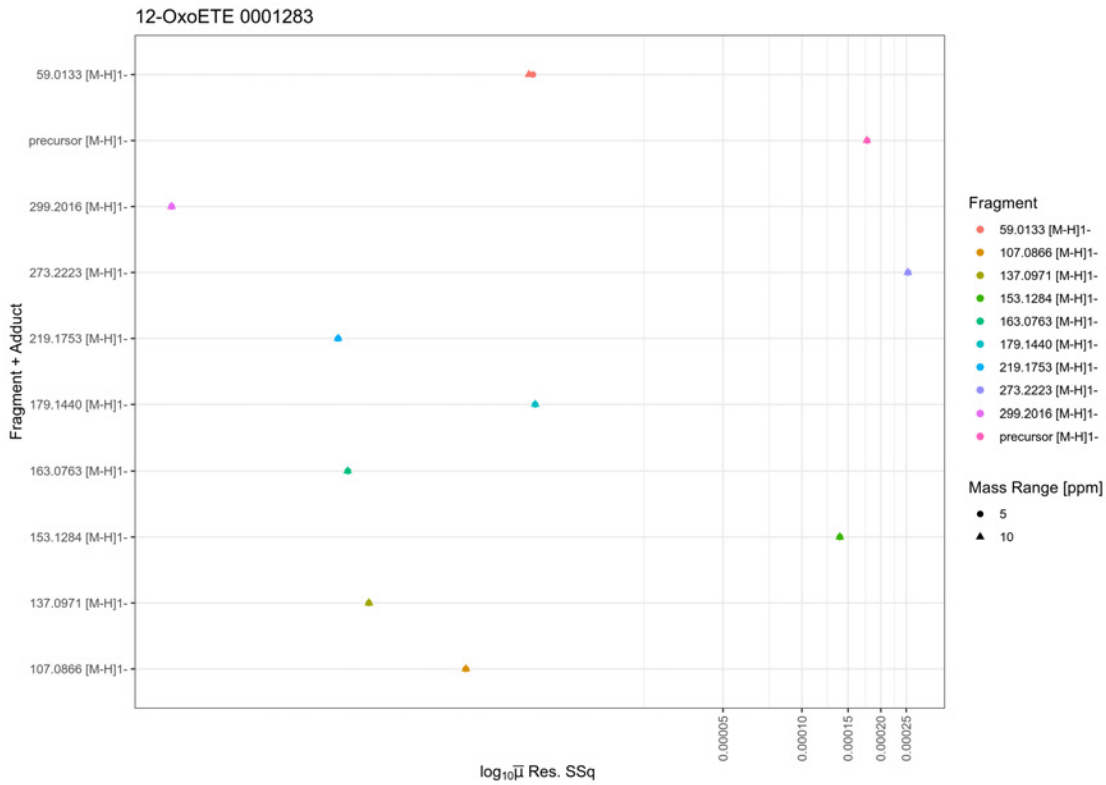


Figure 49. Normalized sum-of-squares of the residuals

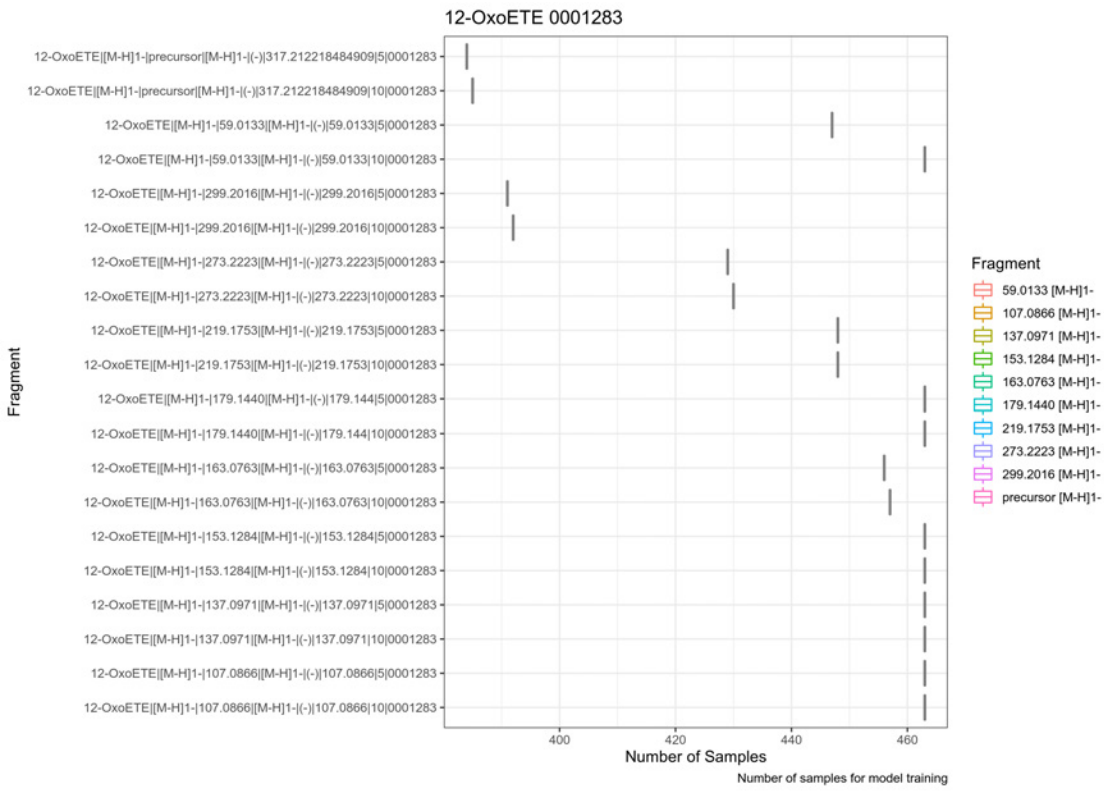


Figure 50. Number of samples used for training per combination Id



# 1.11. 13-HODE{d4} [M-H]1- 0001277

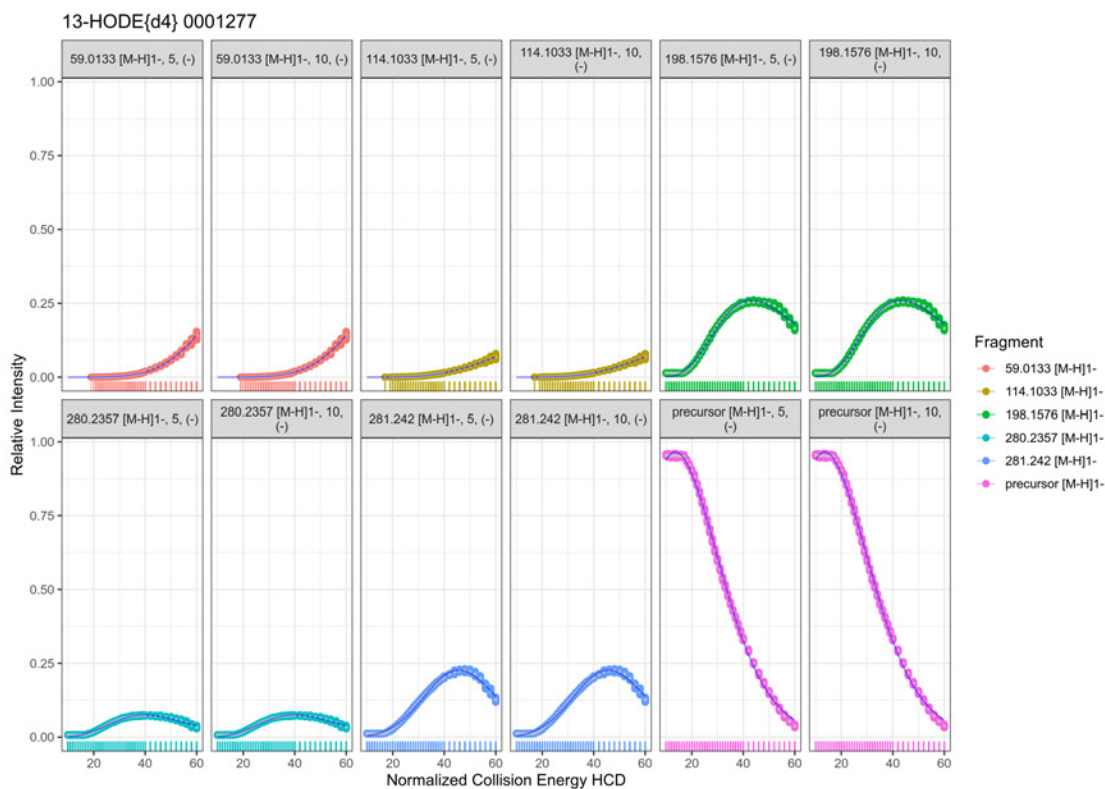


Figure 51. Nonlinear fit

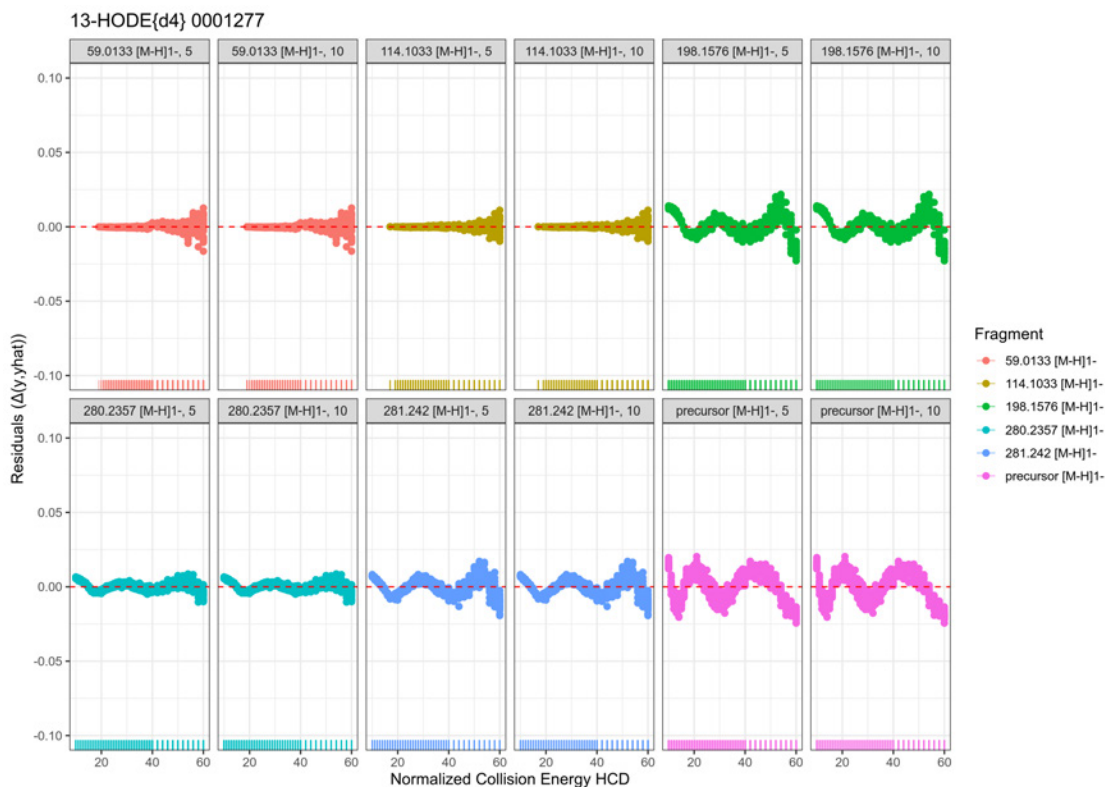


Figure 52. Residuals of nonlinear fit

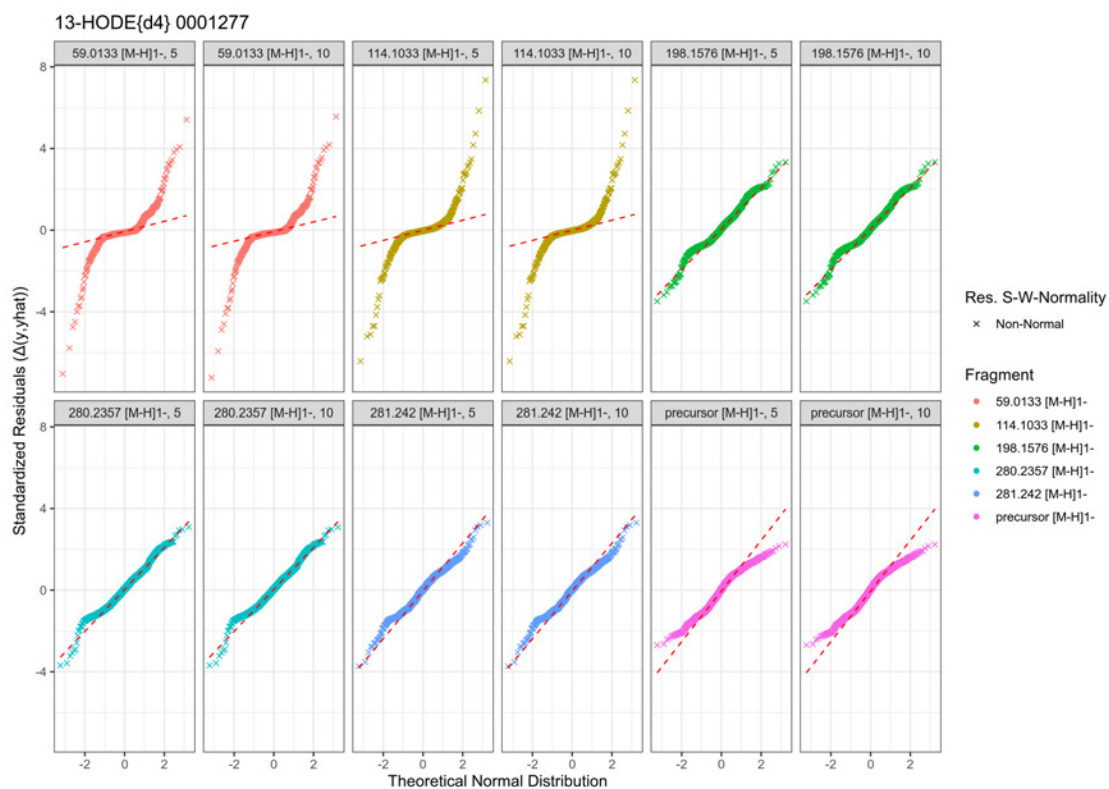


Figure 53. Quantile-quantile plot of residuals

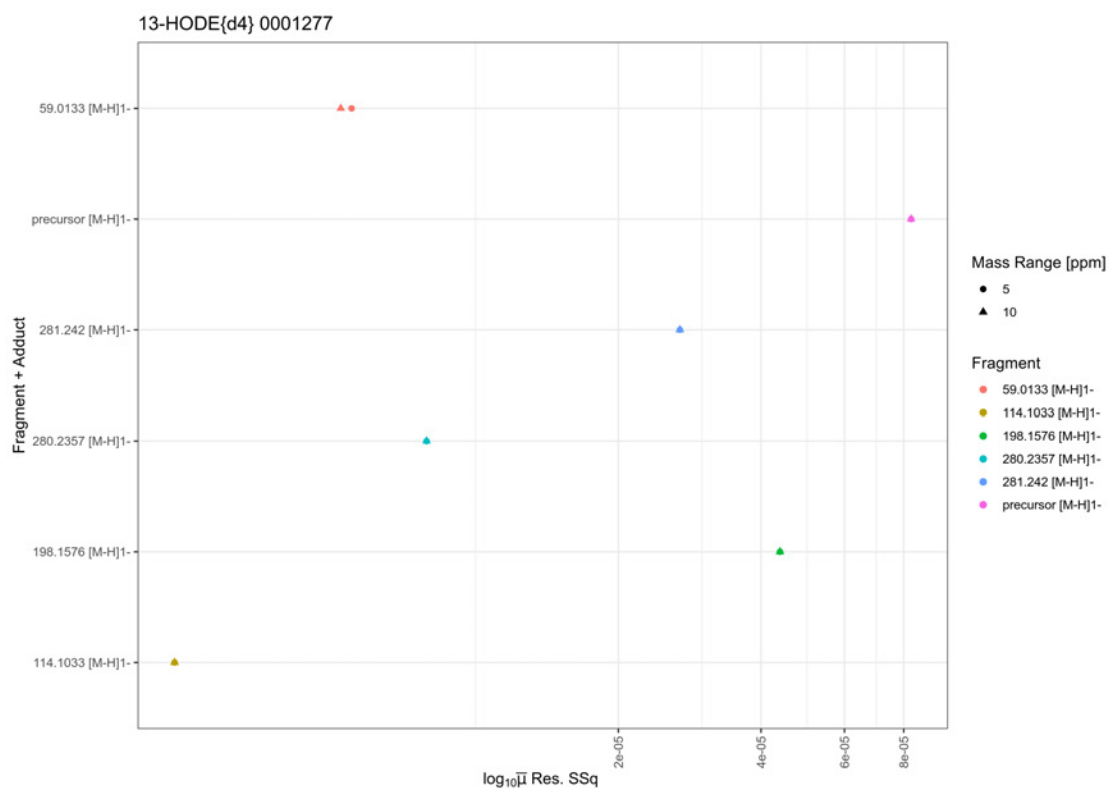


Figure 54. Normalized sum-of-squares of the residuals



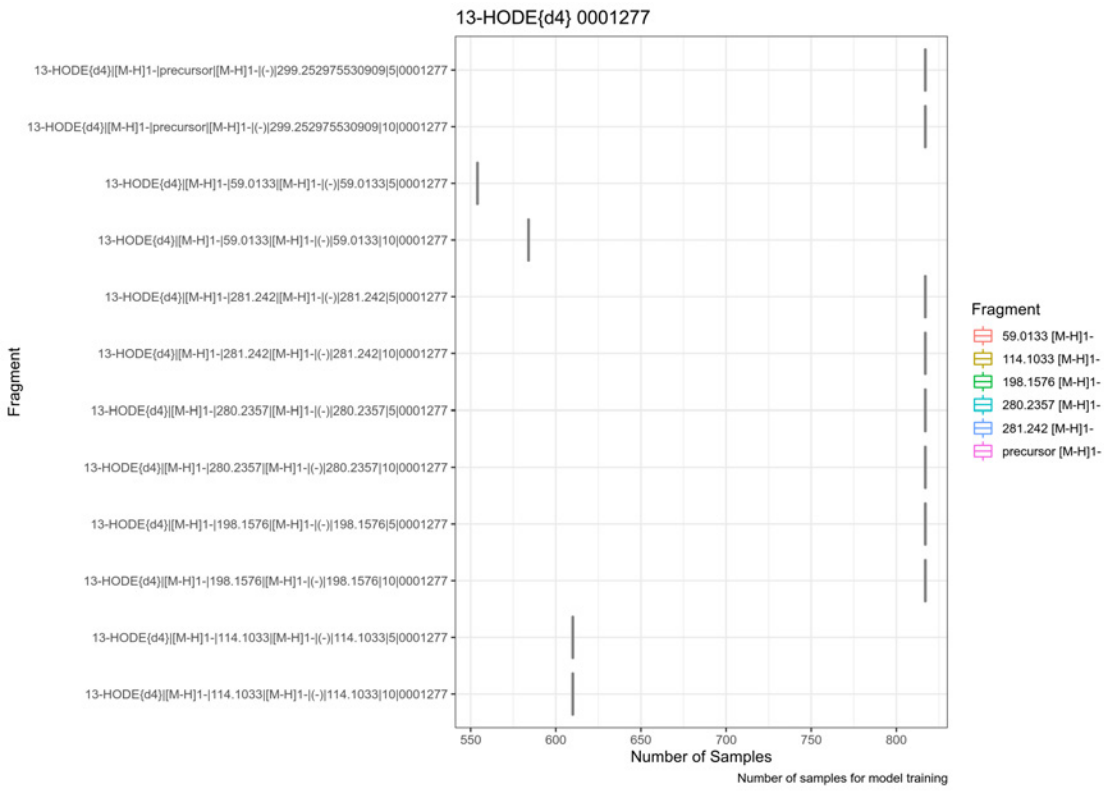


Figure 55. Number of samples used for training per combination Id

# 1.12. 13-HOTrE [M-H]1- 0001341

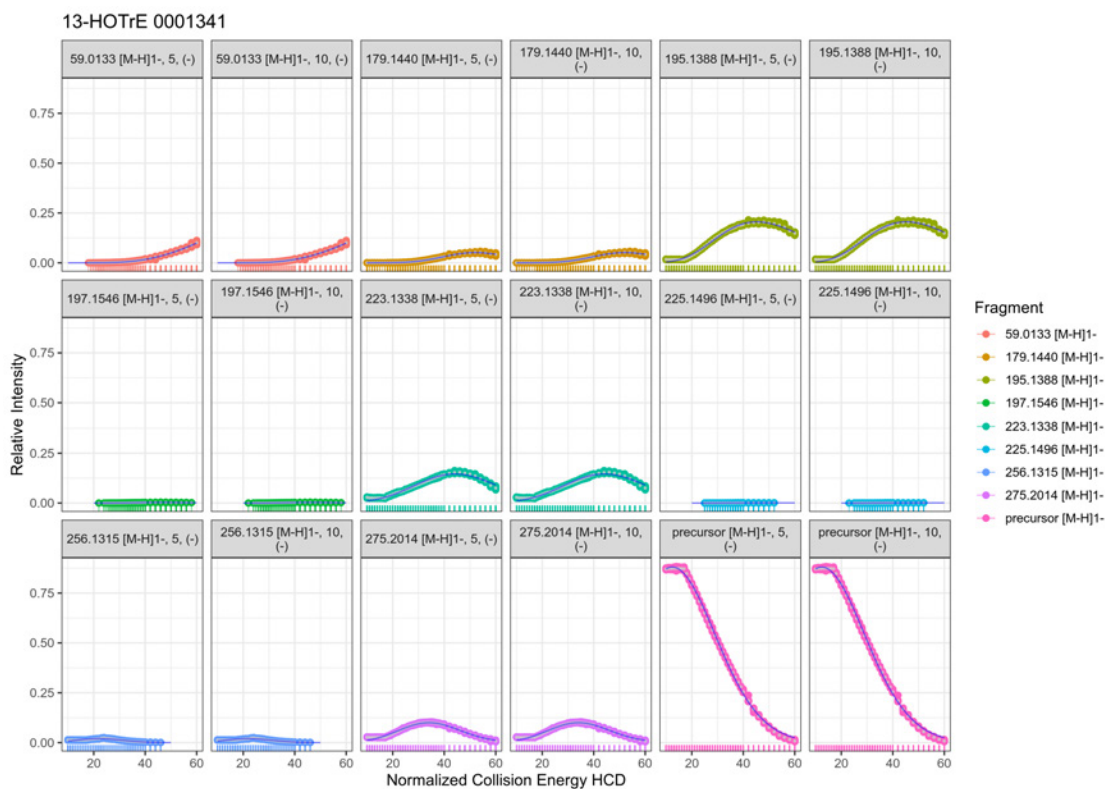


Figure 56. Nonlinear fit

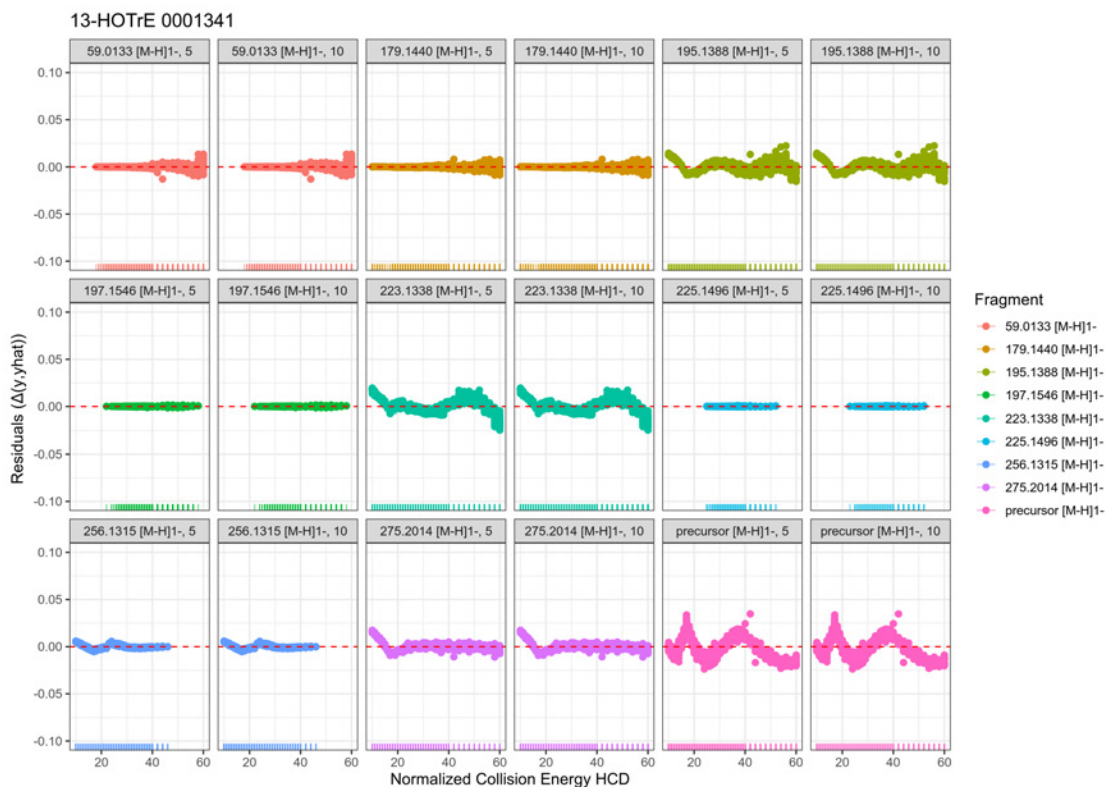


Figure 57. Residuals of nonlinear fit

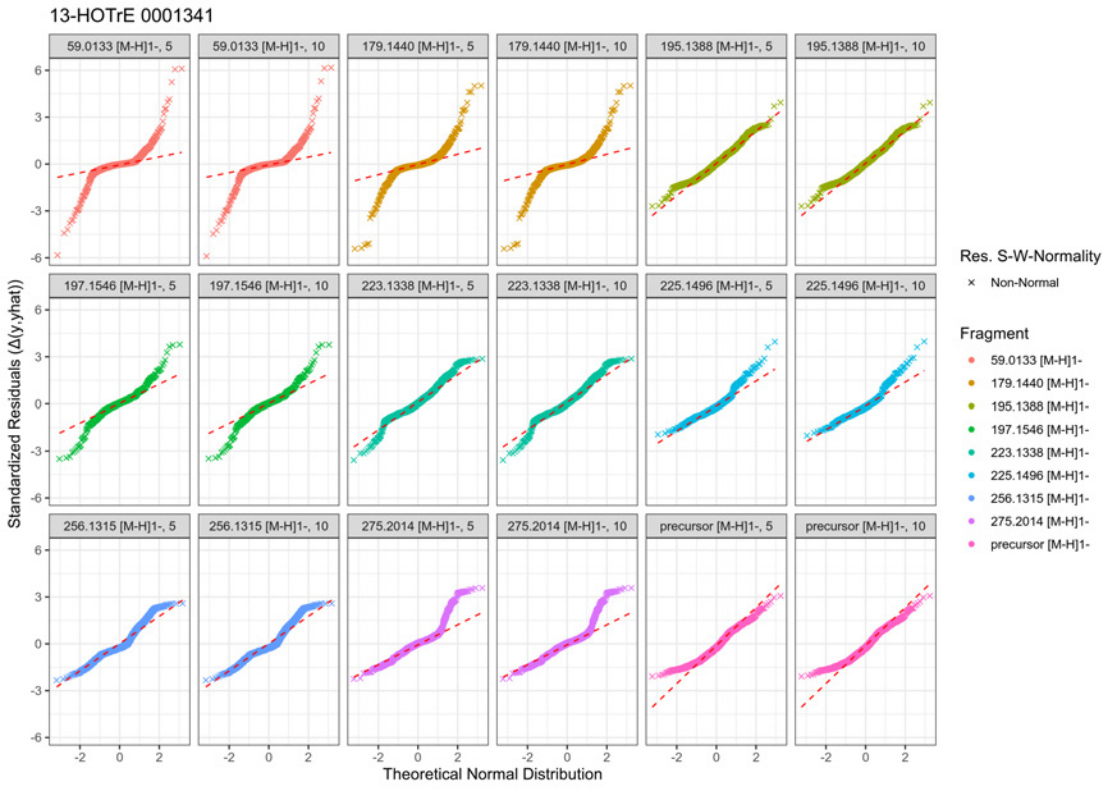


Figure 58. Quantile-quantile plot of residuals

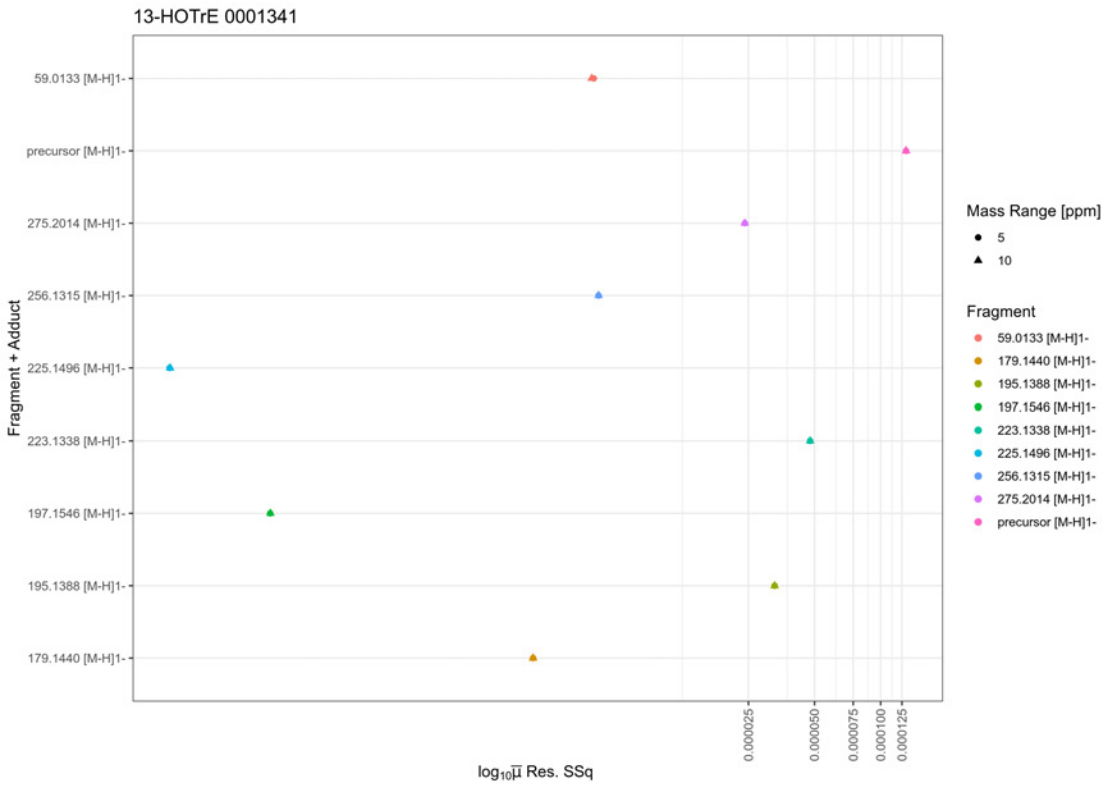


Figure 59. Normalized sum-of-squares of the residuals

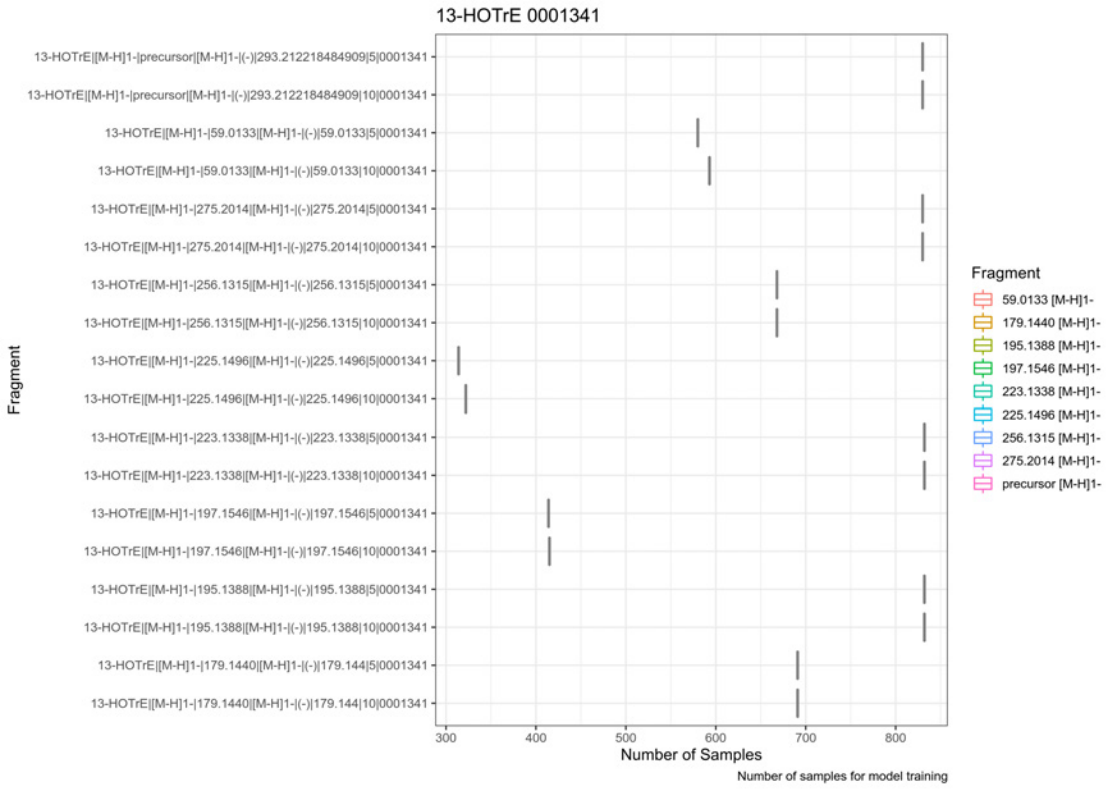


Figure 60. Number of samples used for training per combination Id

# 1.13. 14(15)-EET{d11} [M-H]1- 0001305

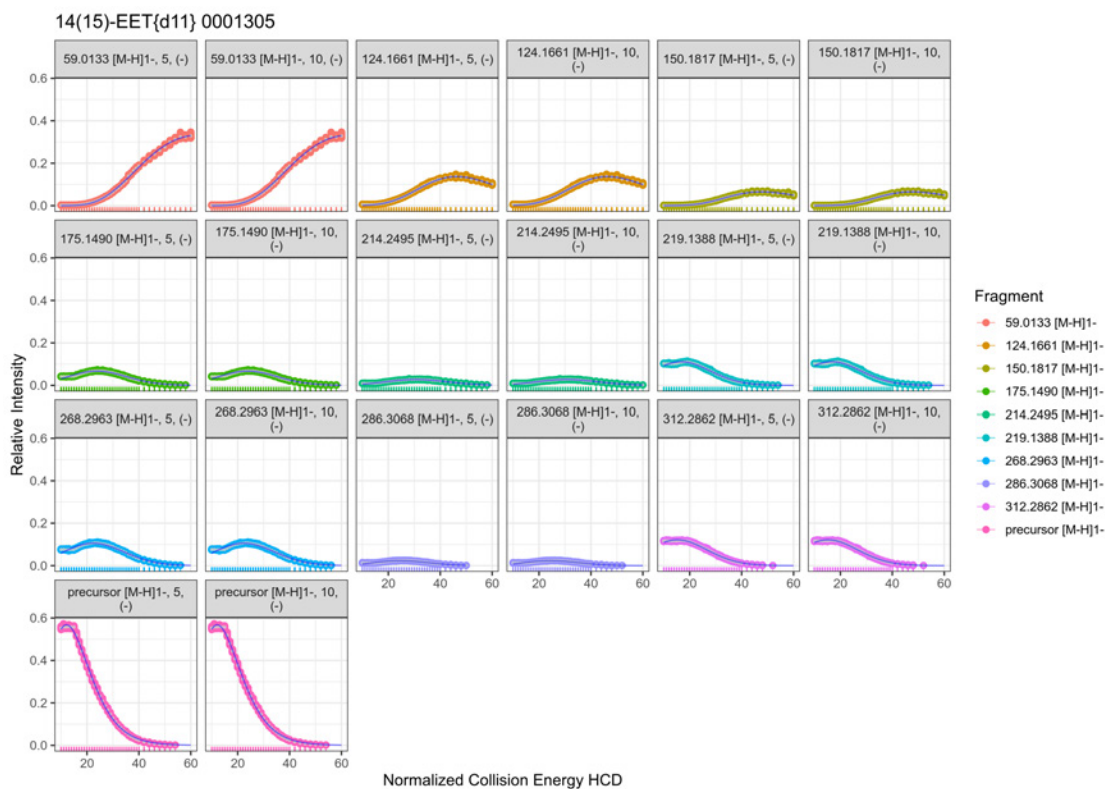


Figure 61. Nonlinear fit

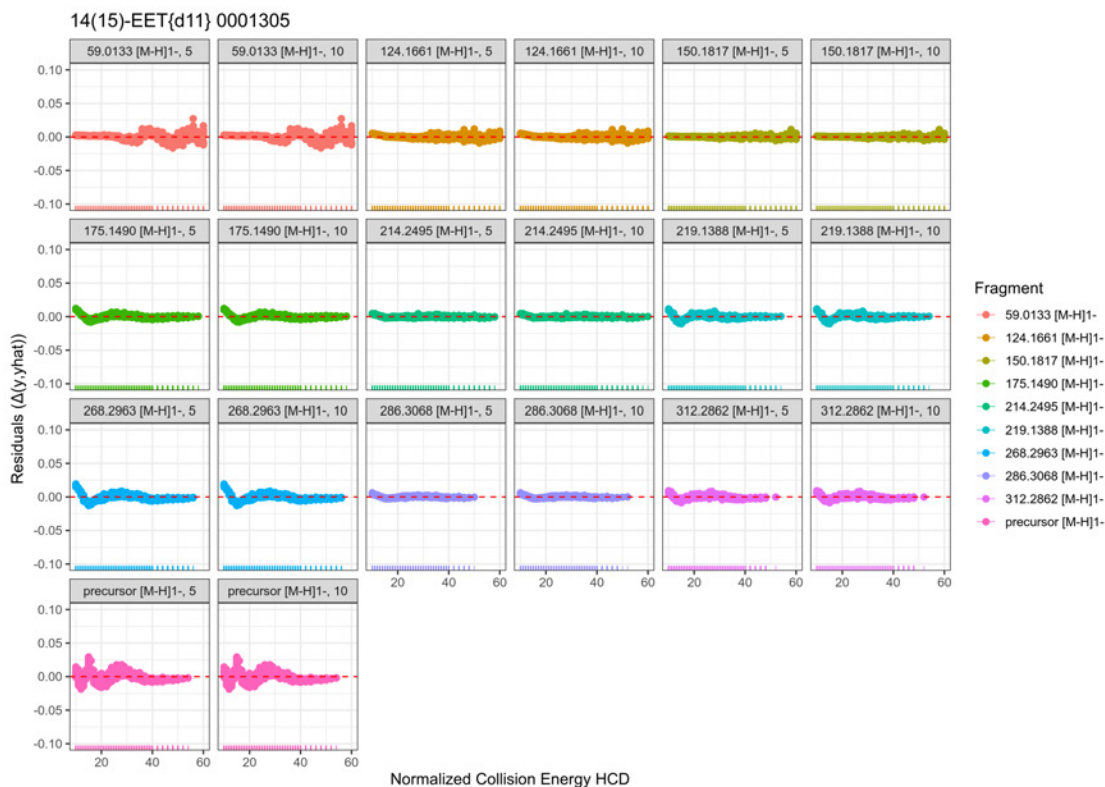


Figure 62. Residuals of nonlinear fit

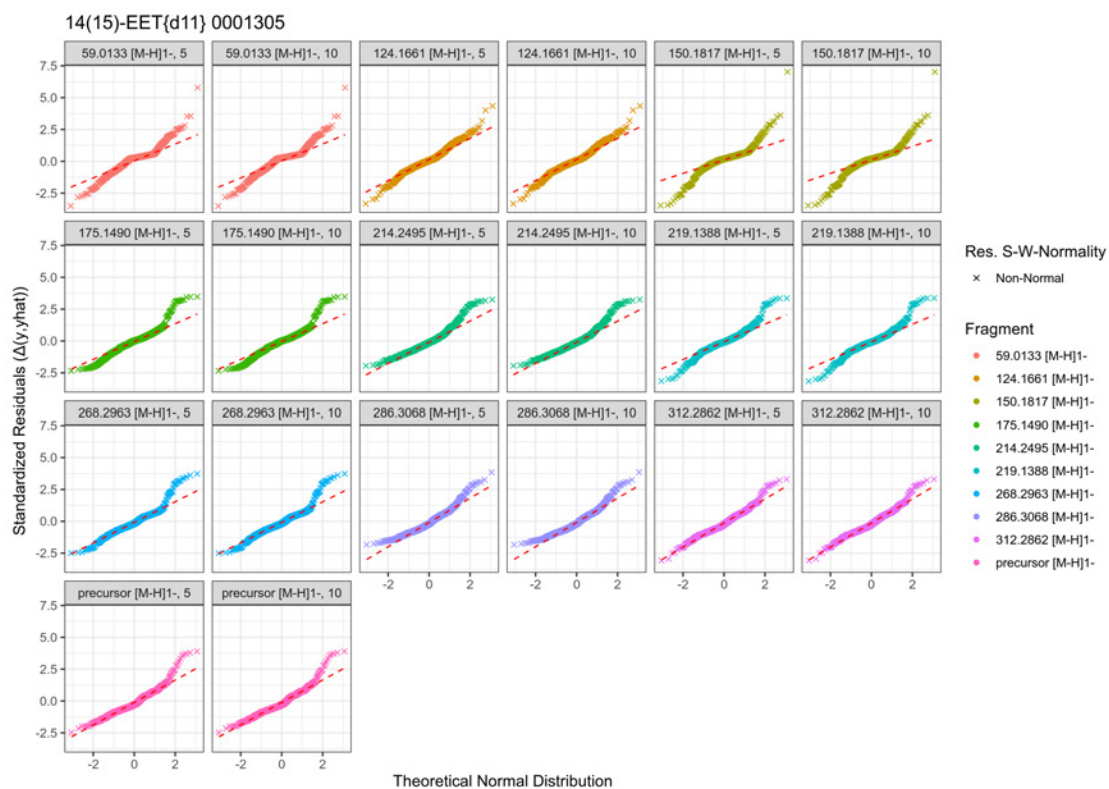


Figure 63. Quantile-quantile plot of residuals

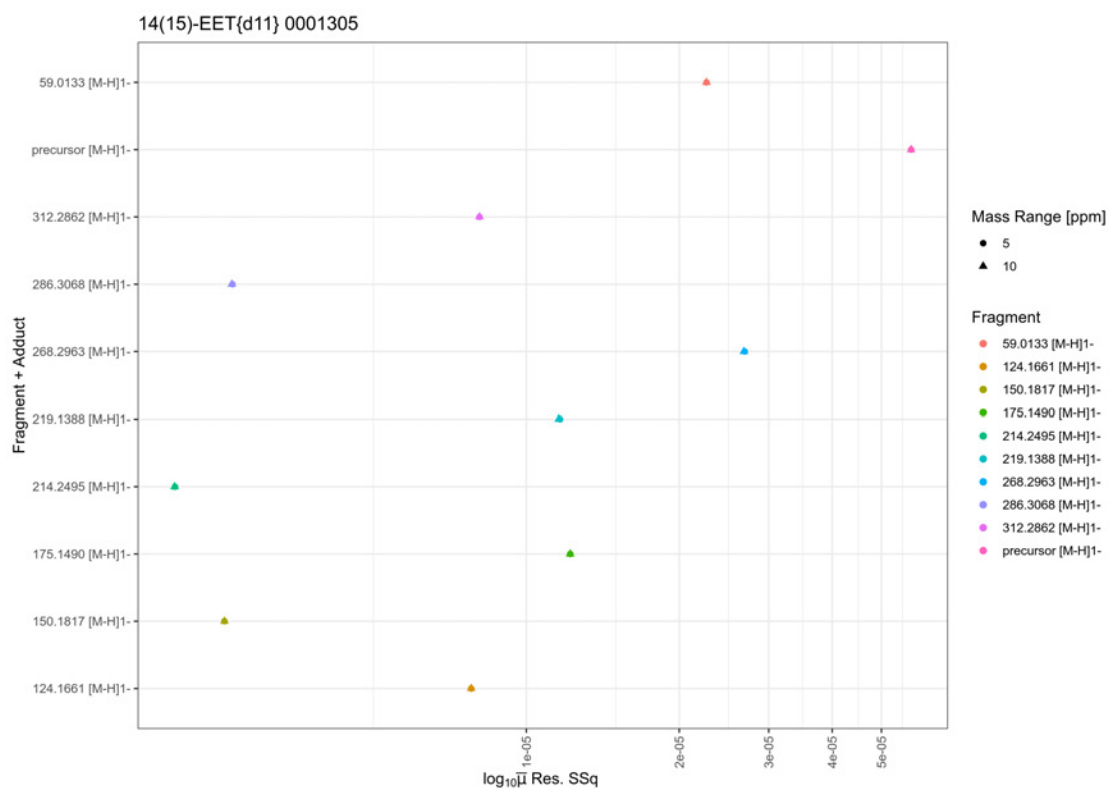


Figure 64. Normalized sum-of-squares of the residuals



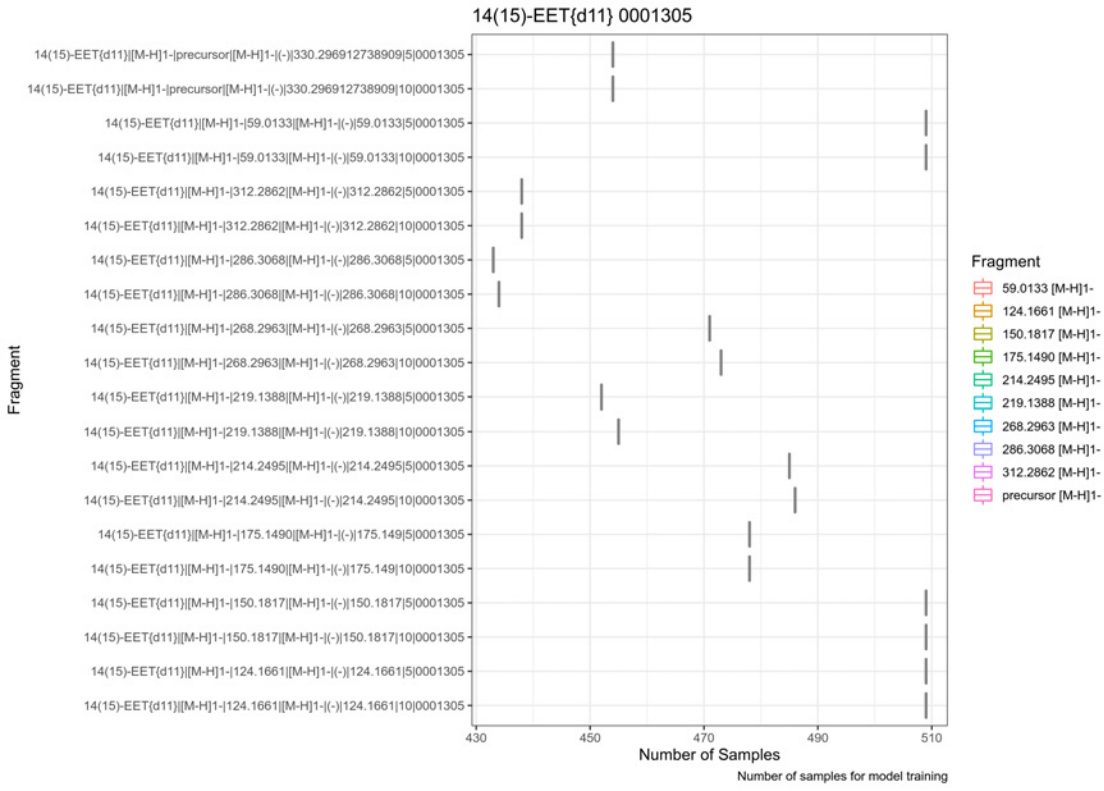


Figure 65. Number of samples used for training per combination Id

# 1.14. 14(15)-EpETE [M-H]1- 0001285

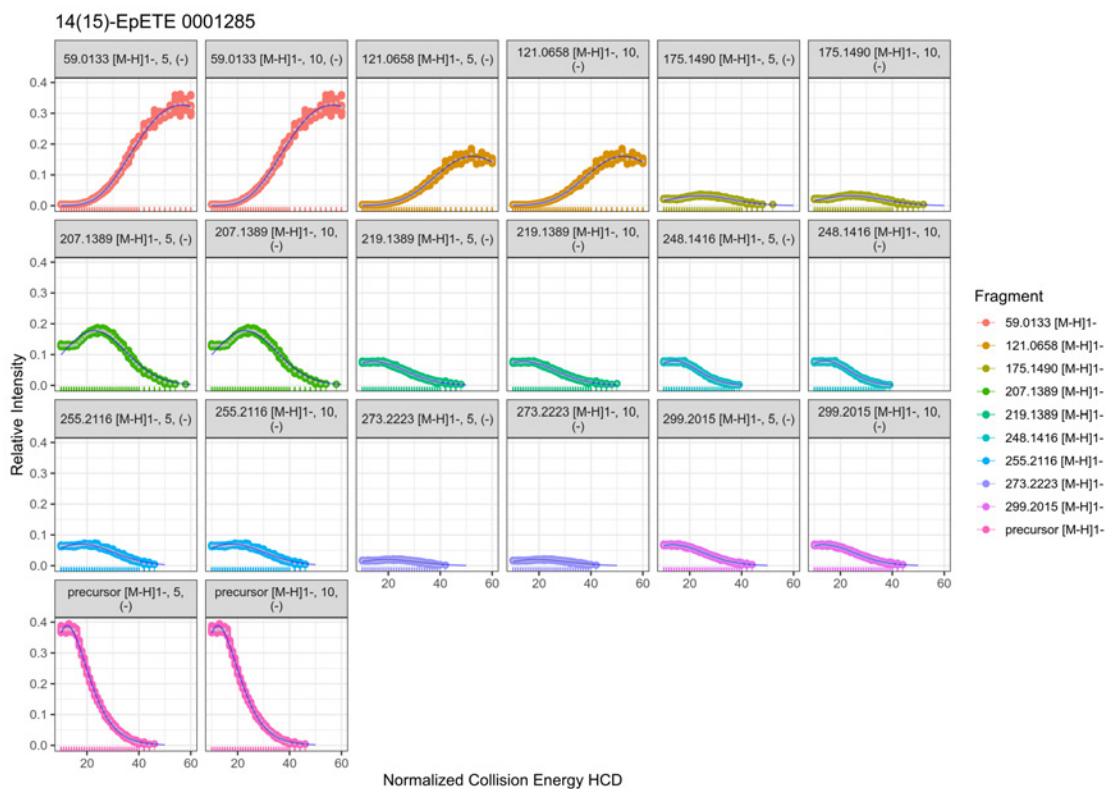


Figure 66. Nonlinear fit

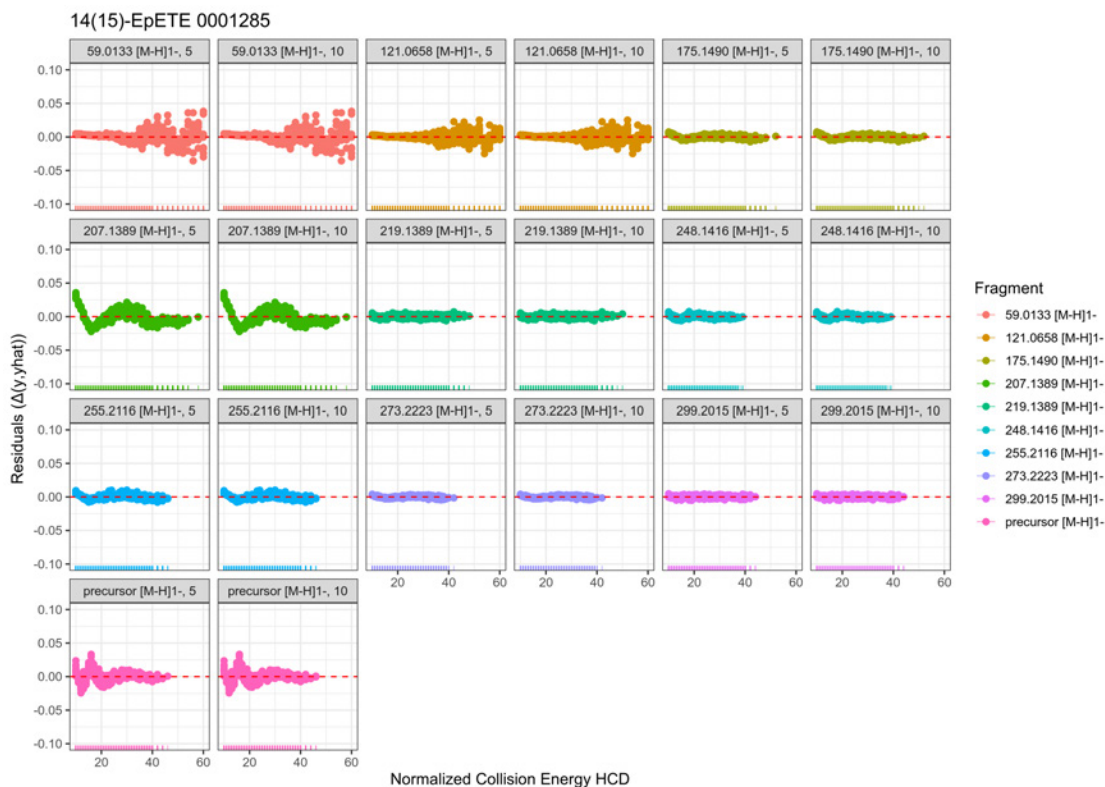


Figure 67. Residuals of nonlinear fit

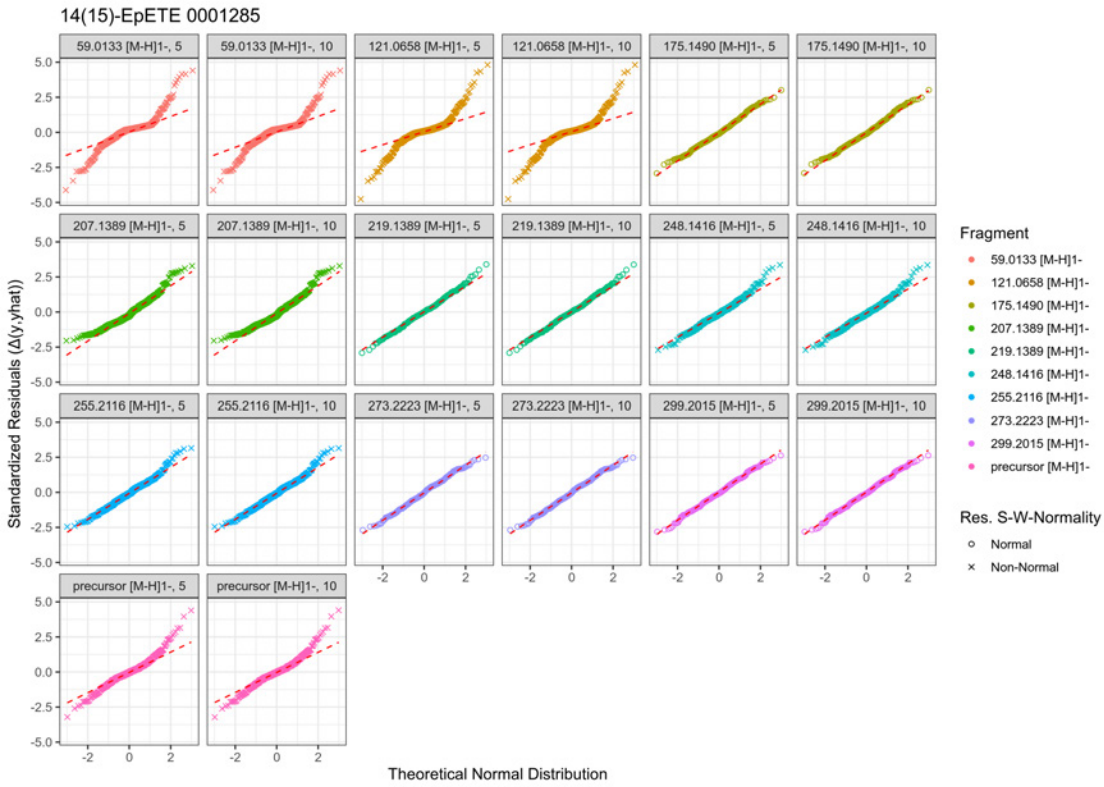


Figure 68. Quantile-quantile plot of residuals

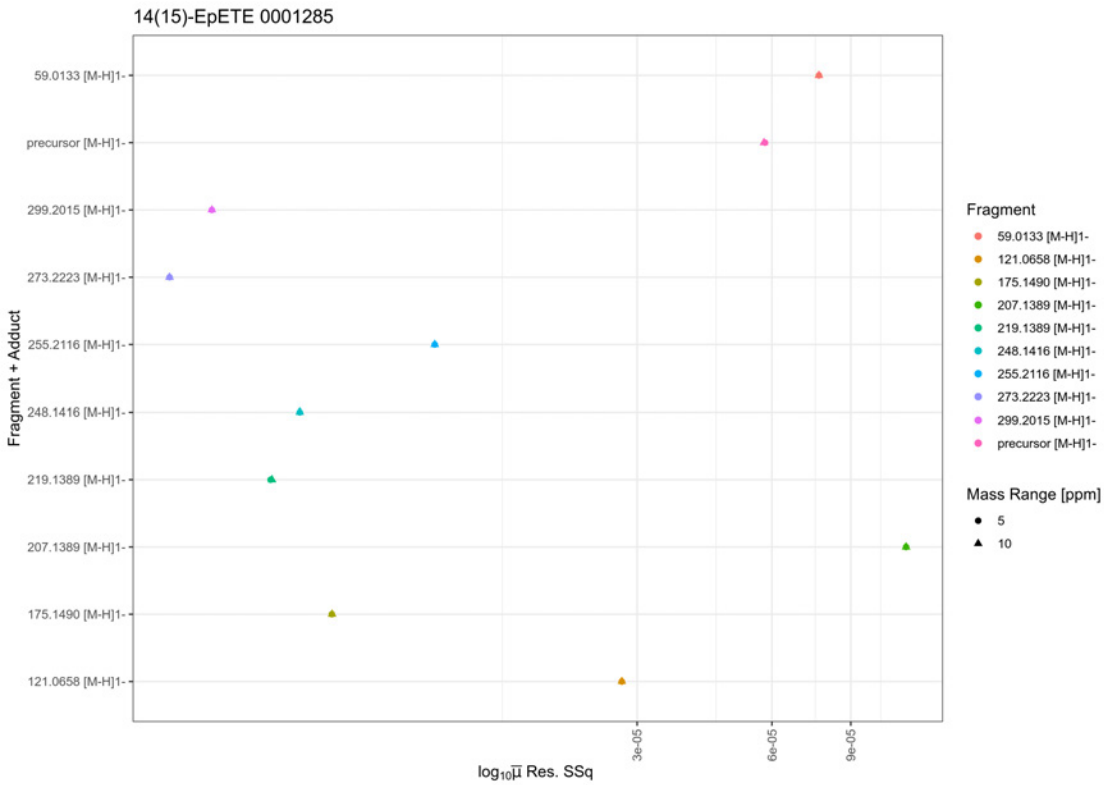


Figure 69. Normalized sum-of-squares of the residuals

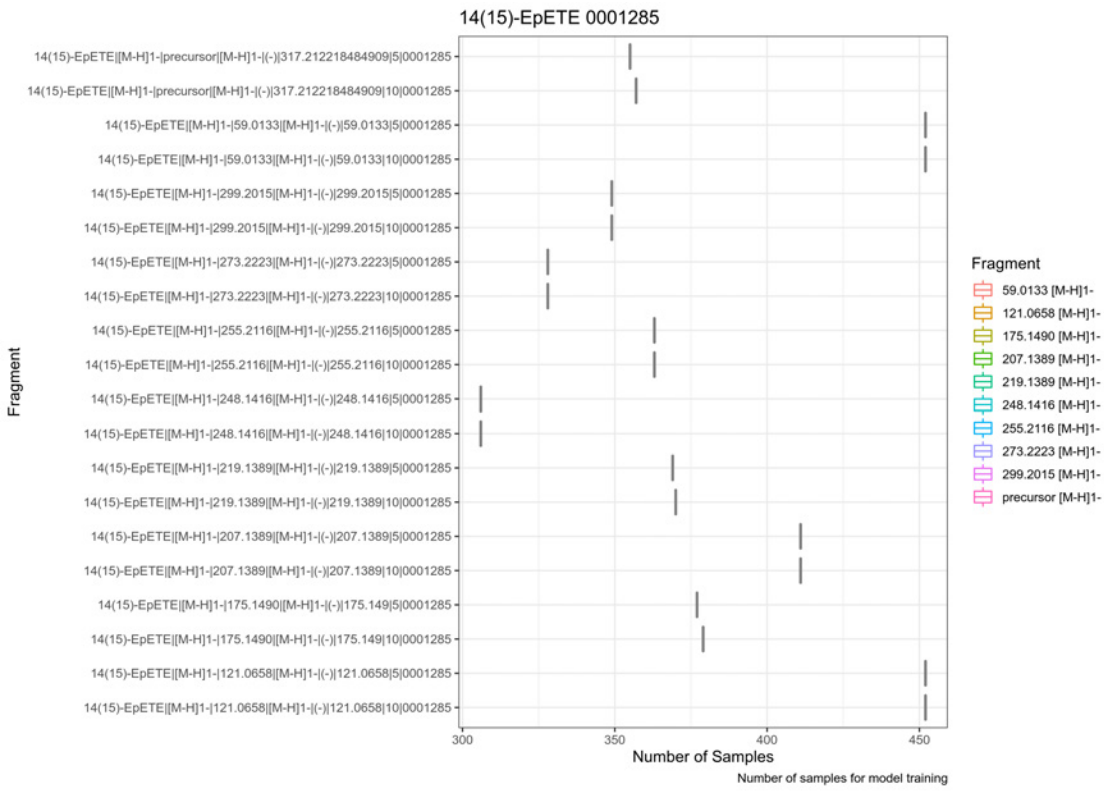


Figure 70. Number of samples used for training per combination Id

# 1.15. 14,15-DHET{d11} [M-H]1- 0000155

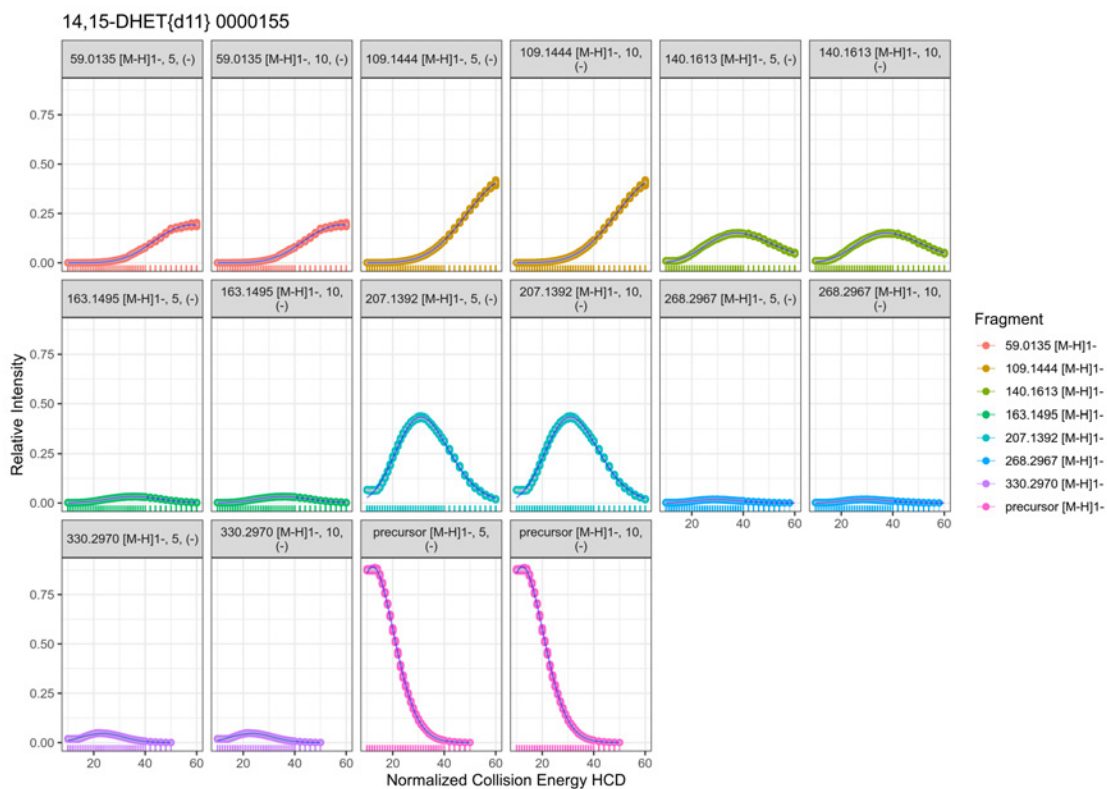


Figure 71. Nonlinear fit

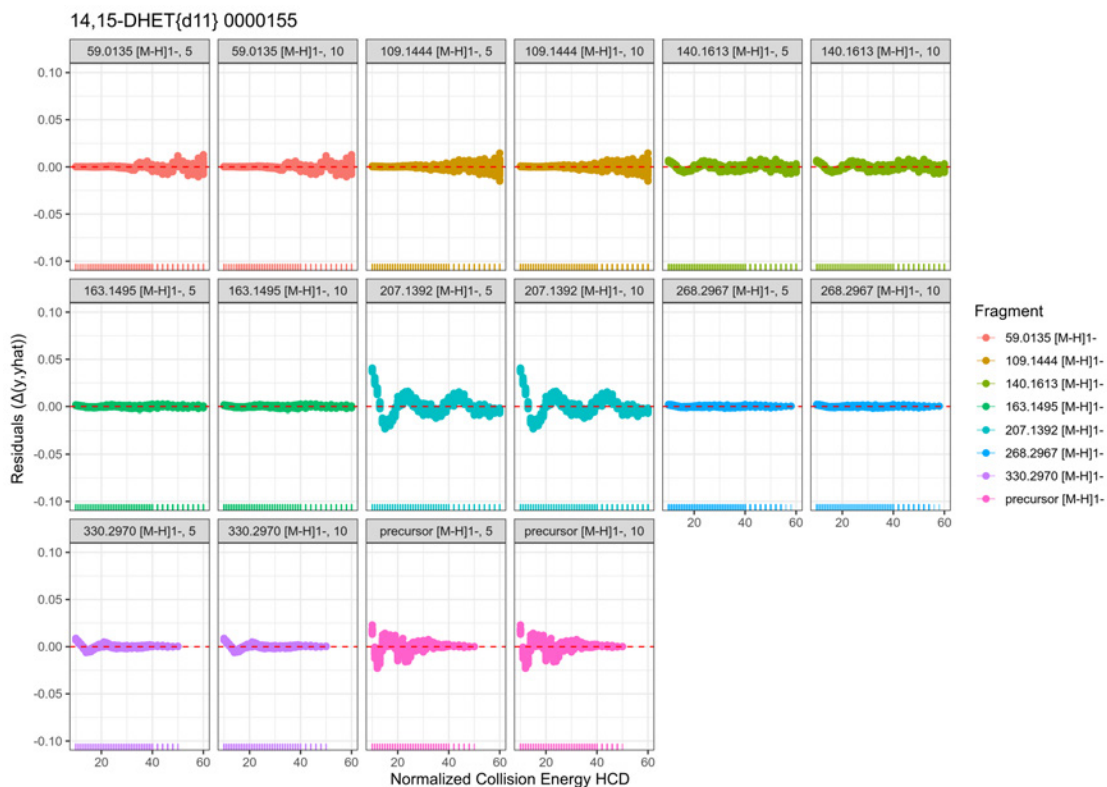


Figure 72. Residuals of nonlinear fit

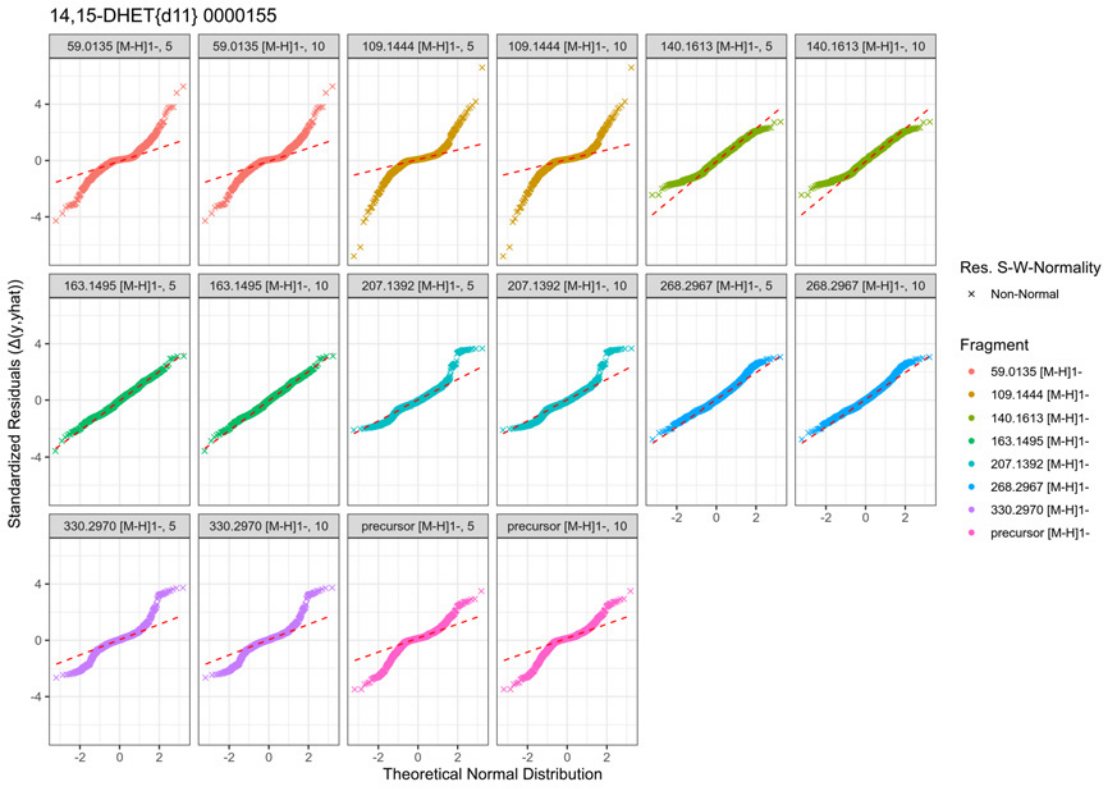


Figure 73. Quantile-quantile plot of residuals

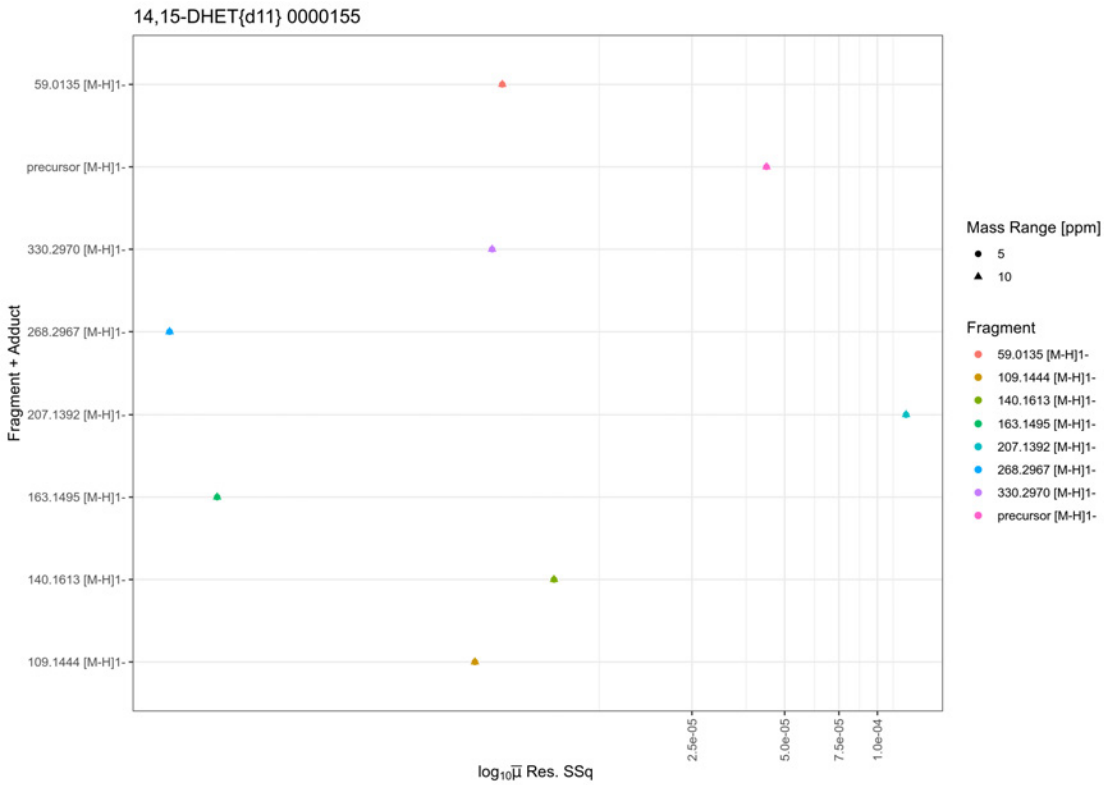


Figure 74. Normalized sum-of-squares of the residuals



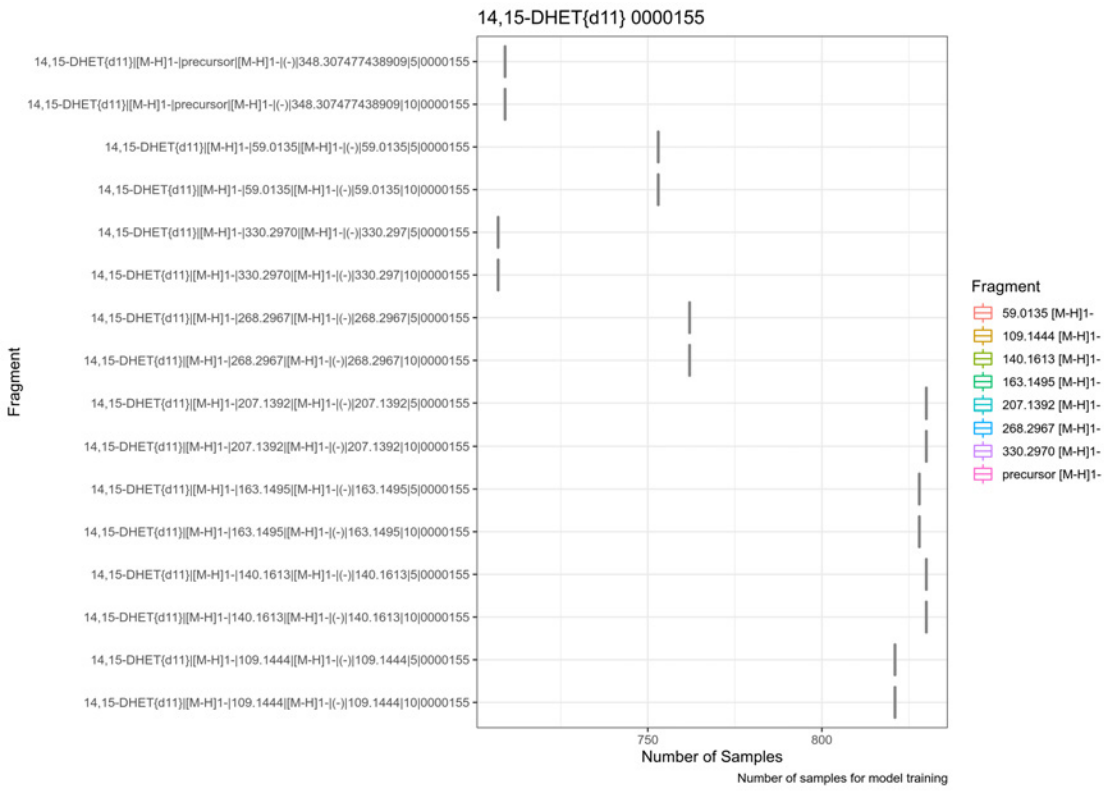


Figure 75. Number of samples used for training per combination Id

# 1.16. 15-HEPE [M-H]1- 0000139

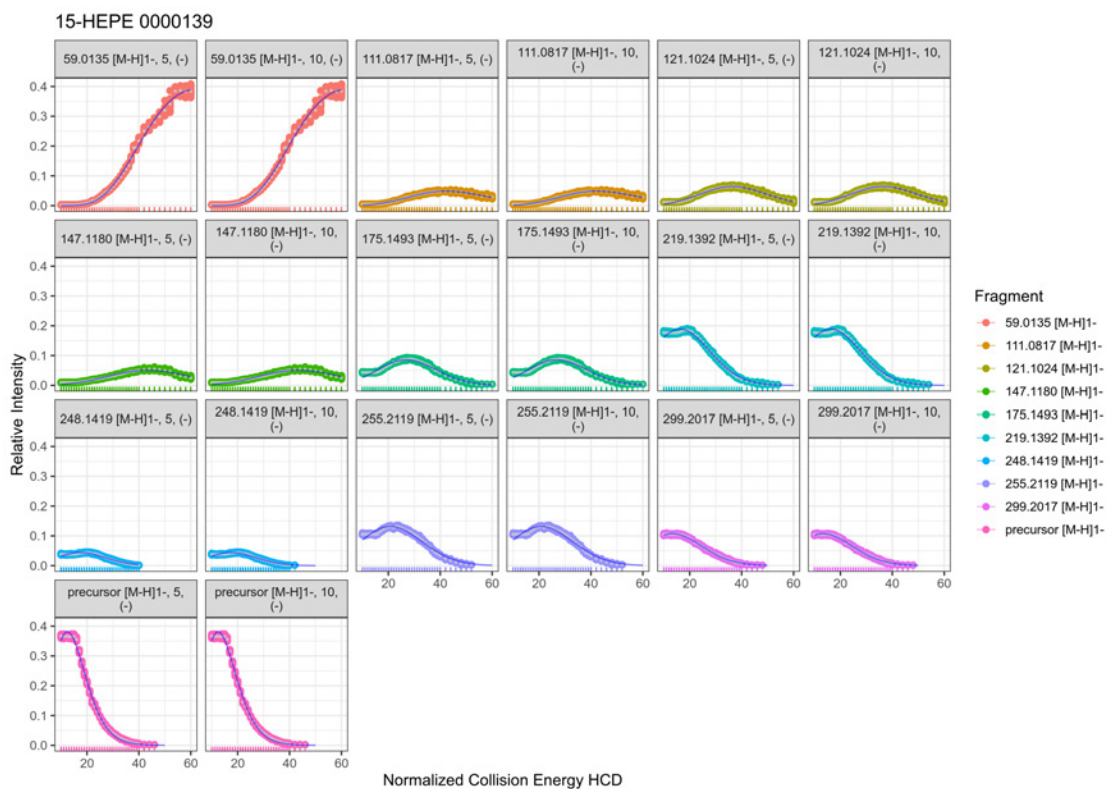


Figure 76. Nonlinear fit

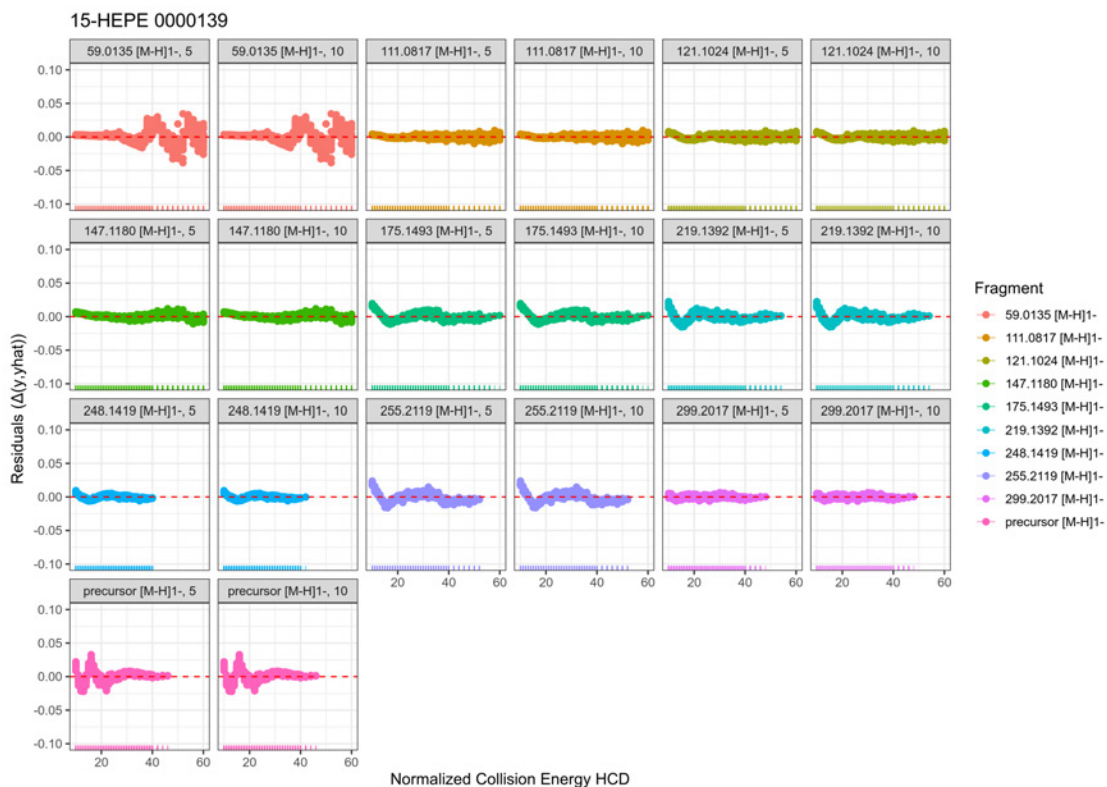


Figure 77. Residuals of nonlinear fit

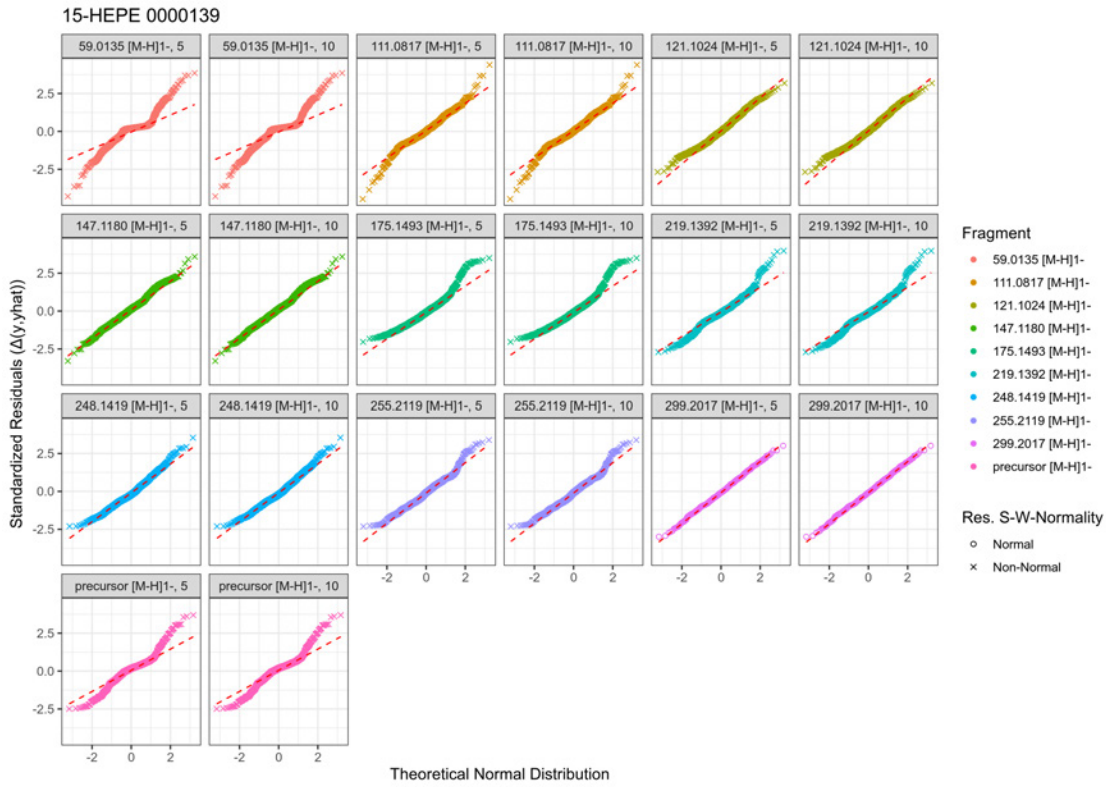


Figure 78. Quantile-quantile plot of residuals

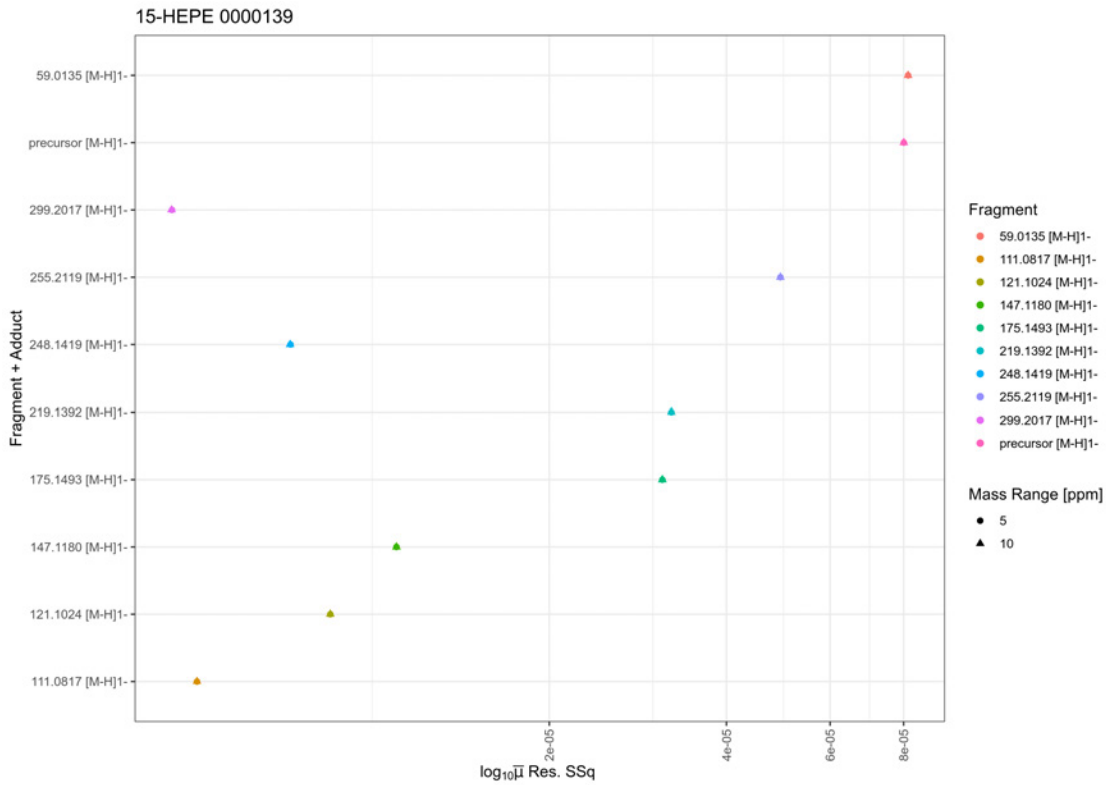


Figure 79. Normalized sum-of-squares of the residuals

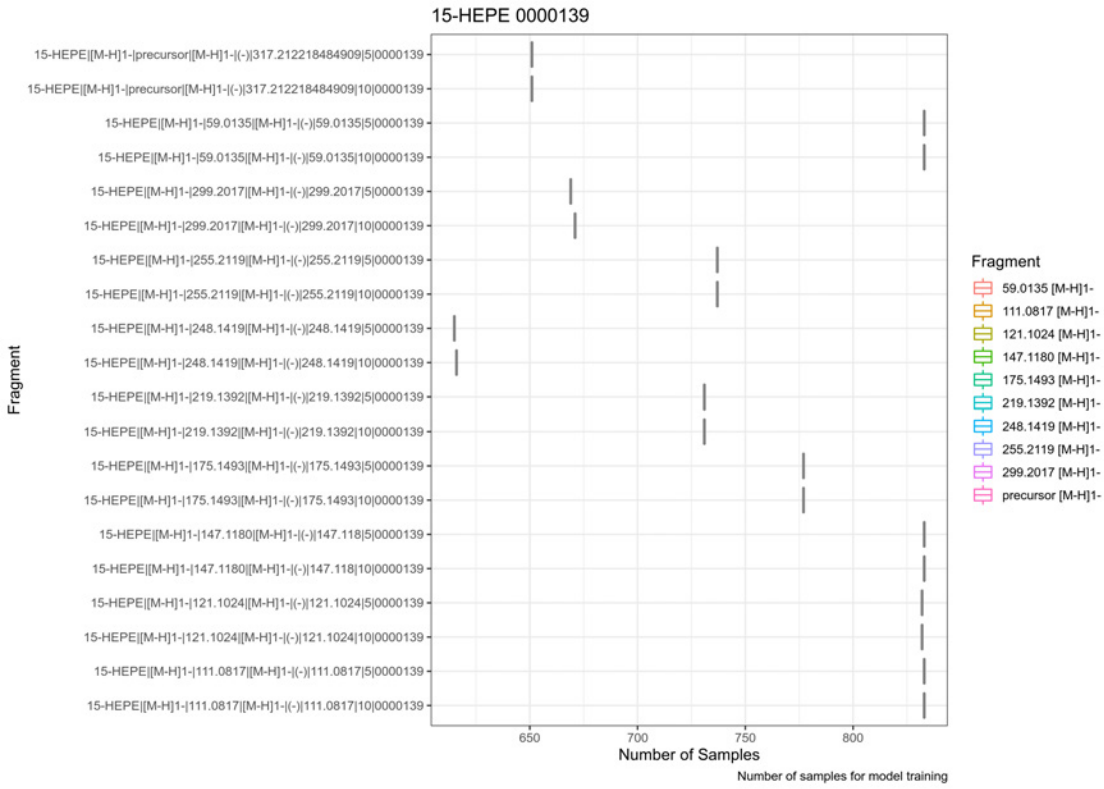


Figure 80. Number of samples used for training per combination Id

# 1.17. 15-HETE{d8} [M-H]1- 0001329

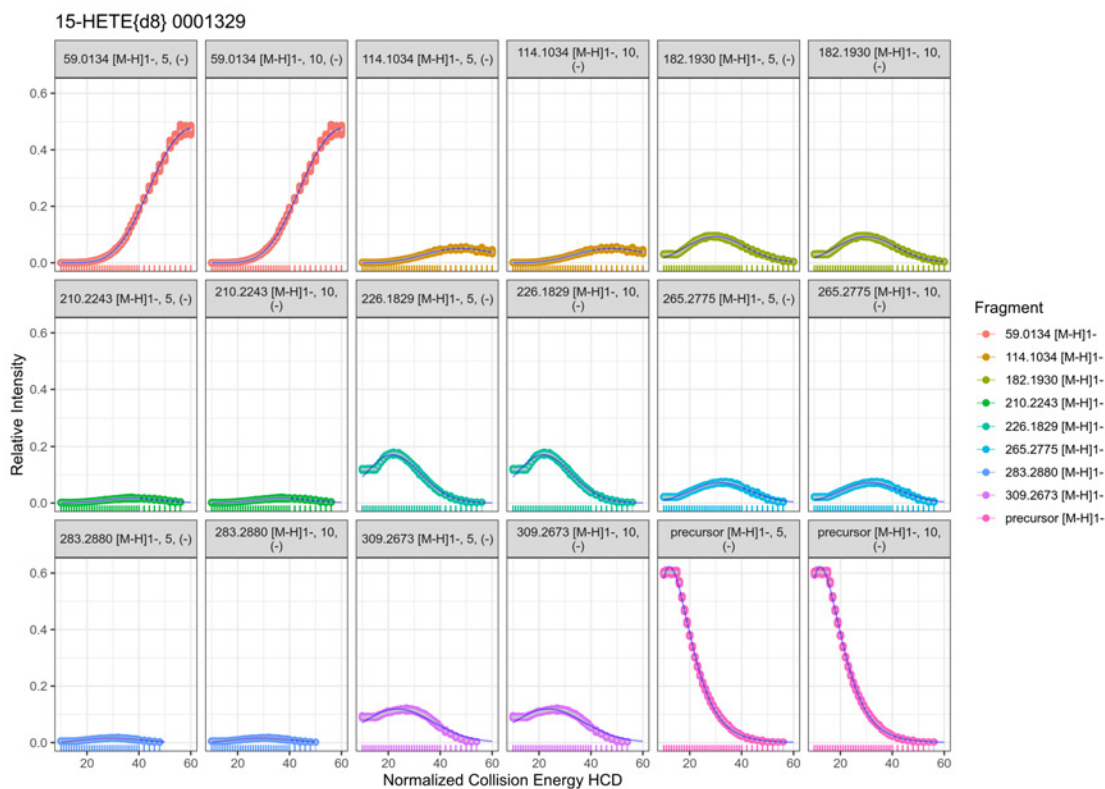


Figure 81. Nonlinear fit

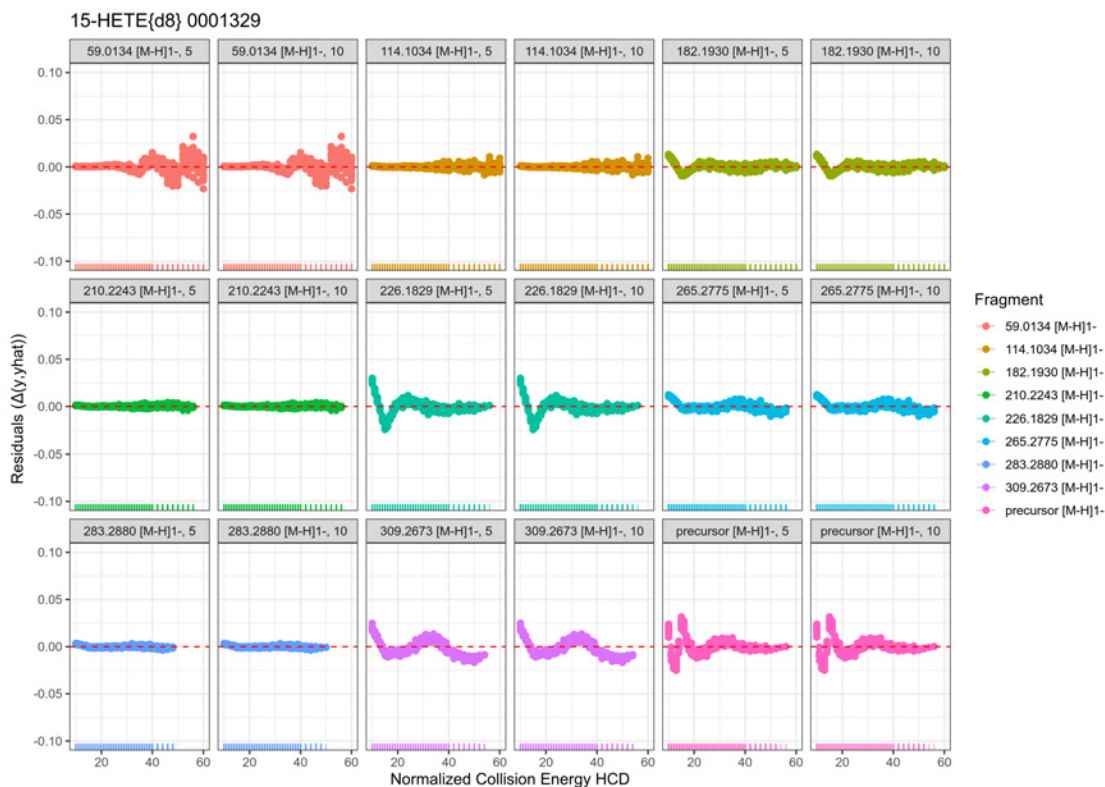


Figure 82. Residuals of nonlinear fit

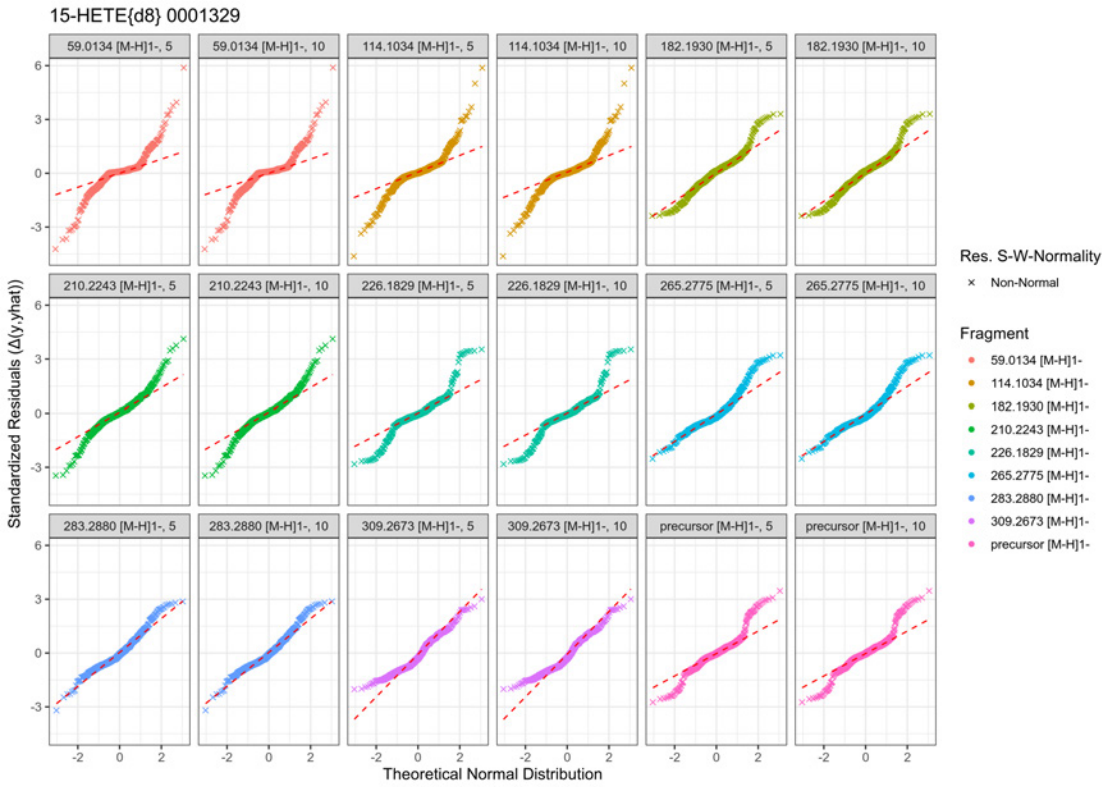


Figure 83. Quantile-quantile plot of residuals

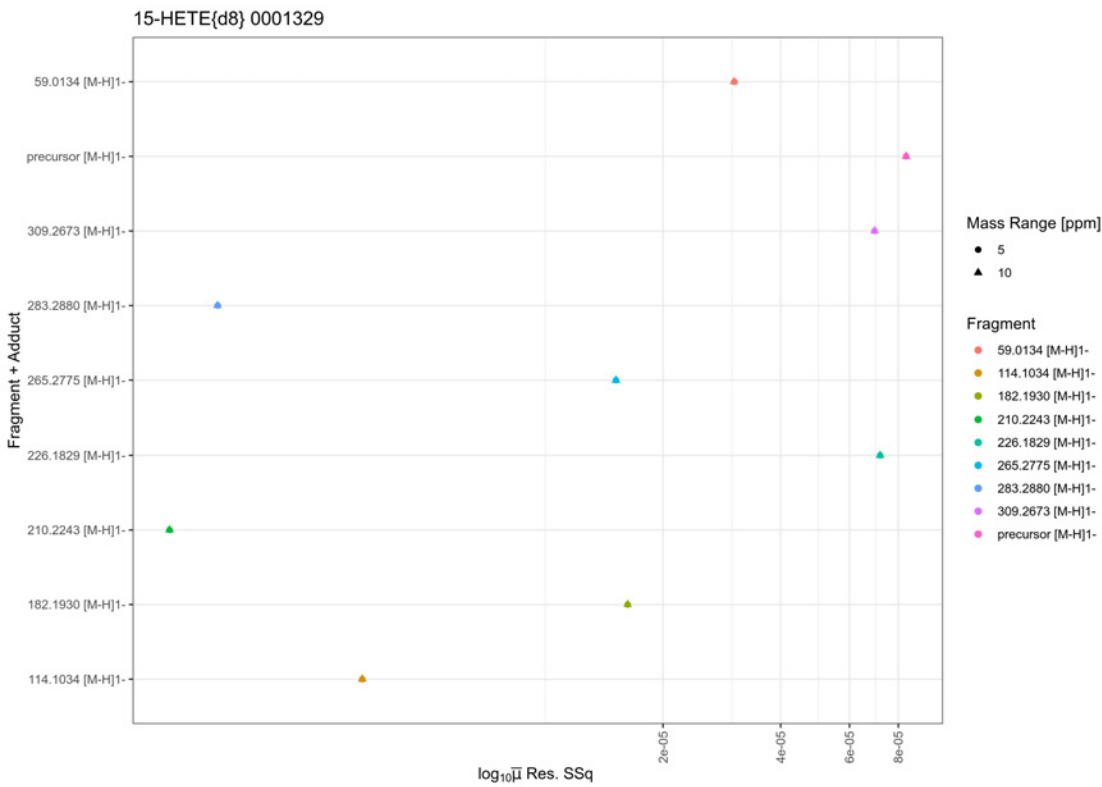


Figure 84. Normalized sum-of-squares of the residuals



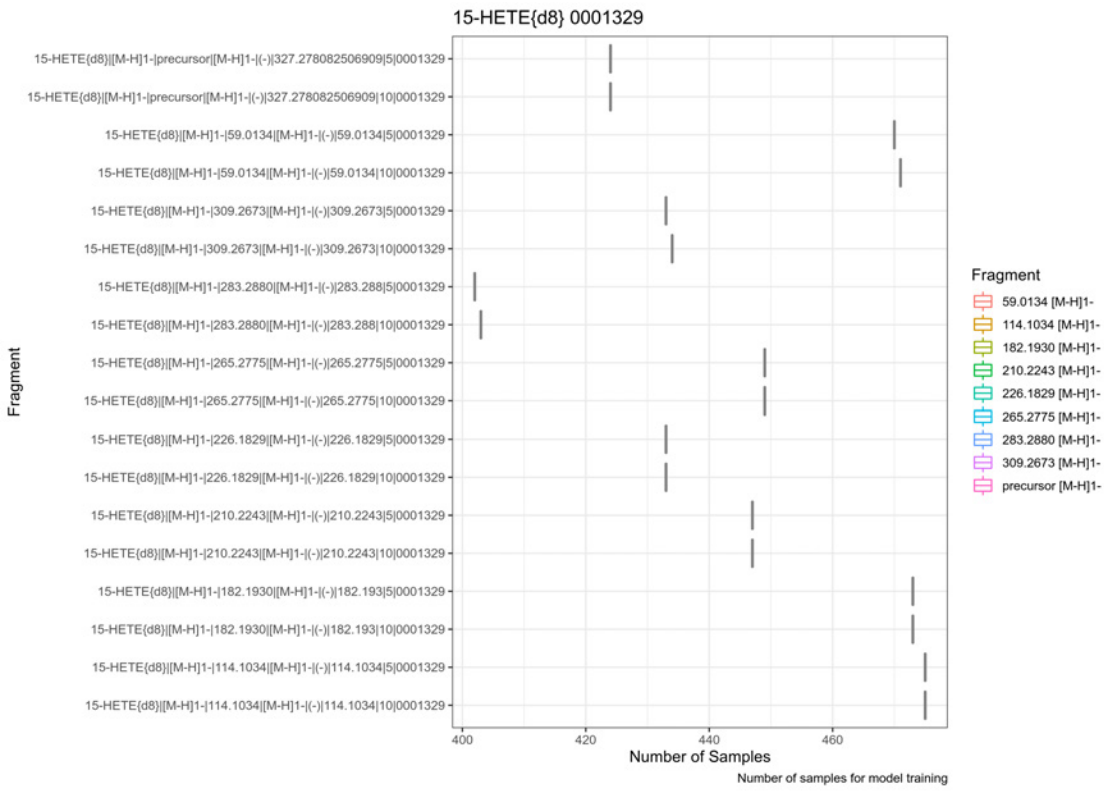


Figure 85. Number of samples used for training per combination Id

# 1.18. 15d-PGJ2{d4} [M-H]1- 0000149

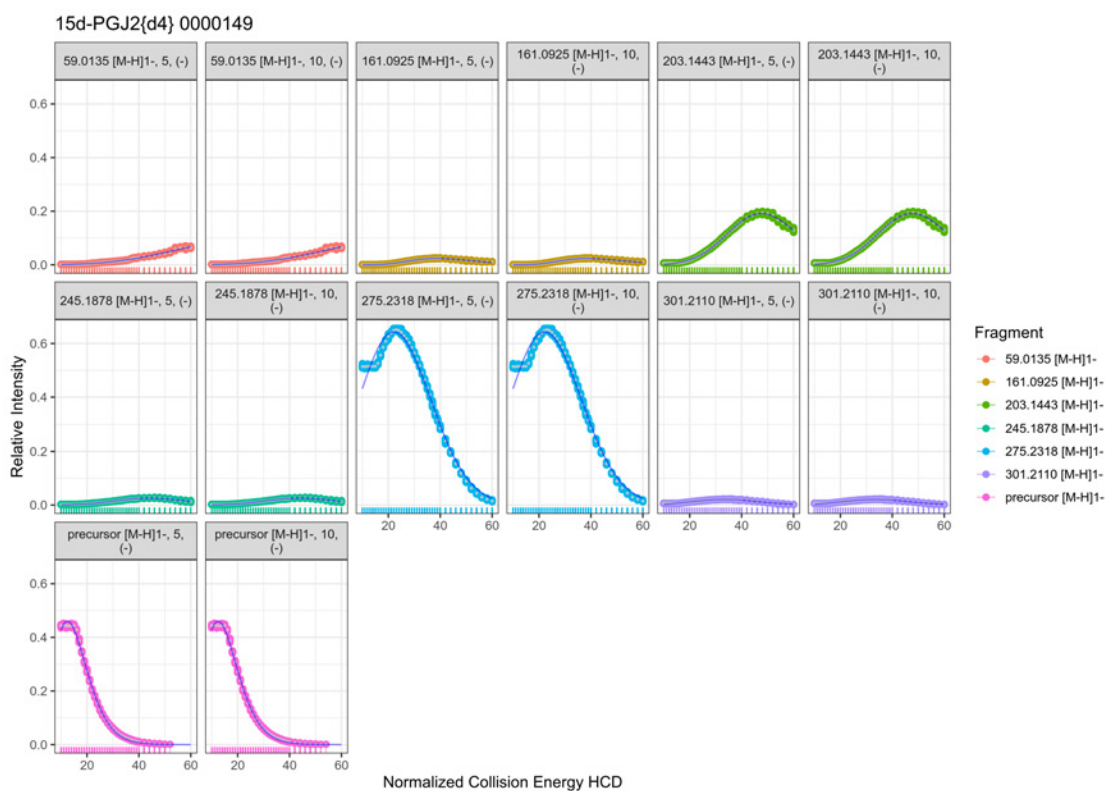


Figure 86. Nonlinear fit

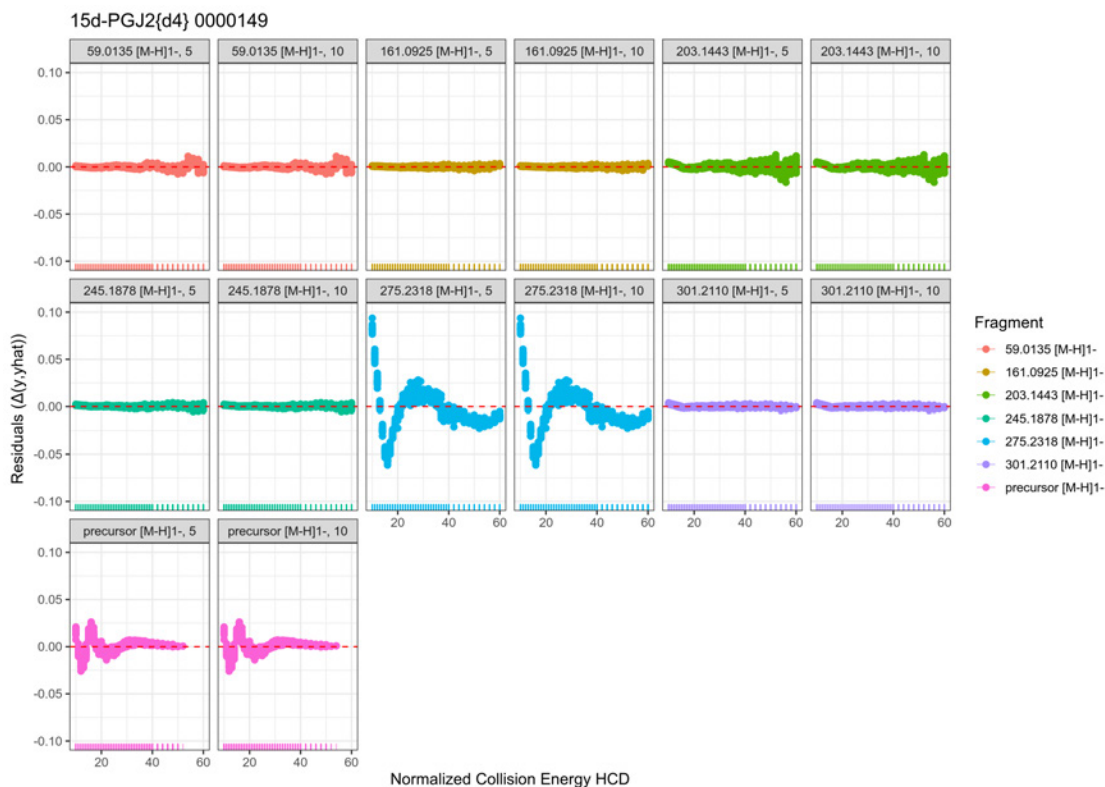


Figure 87. Residuals of nonlinear fit

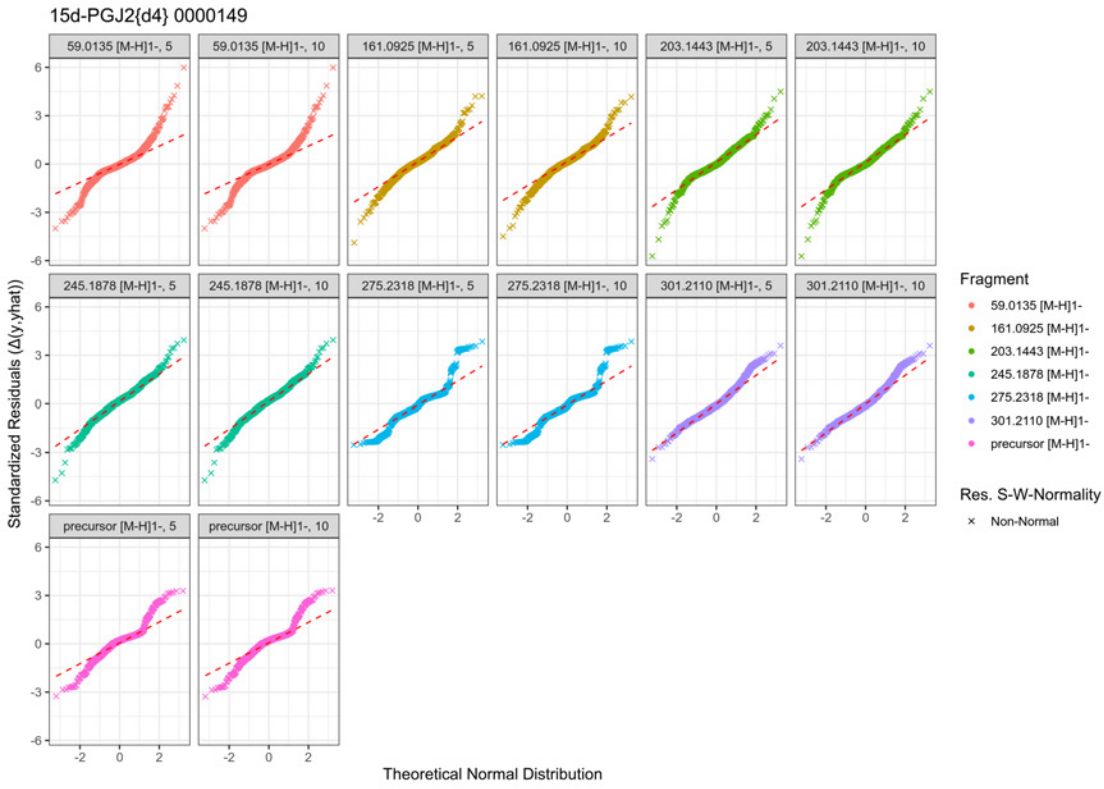


Figure 88. Quantile-quantile plot of residuals

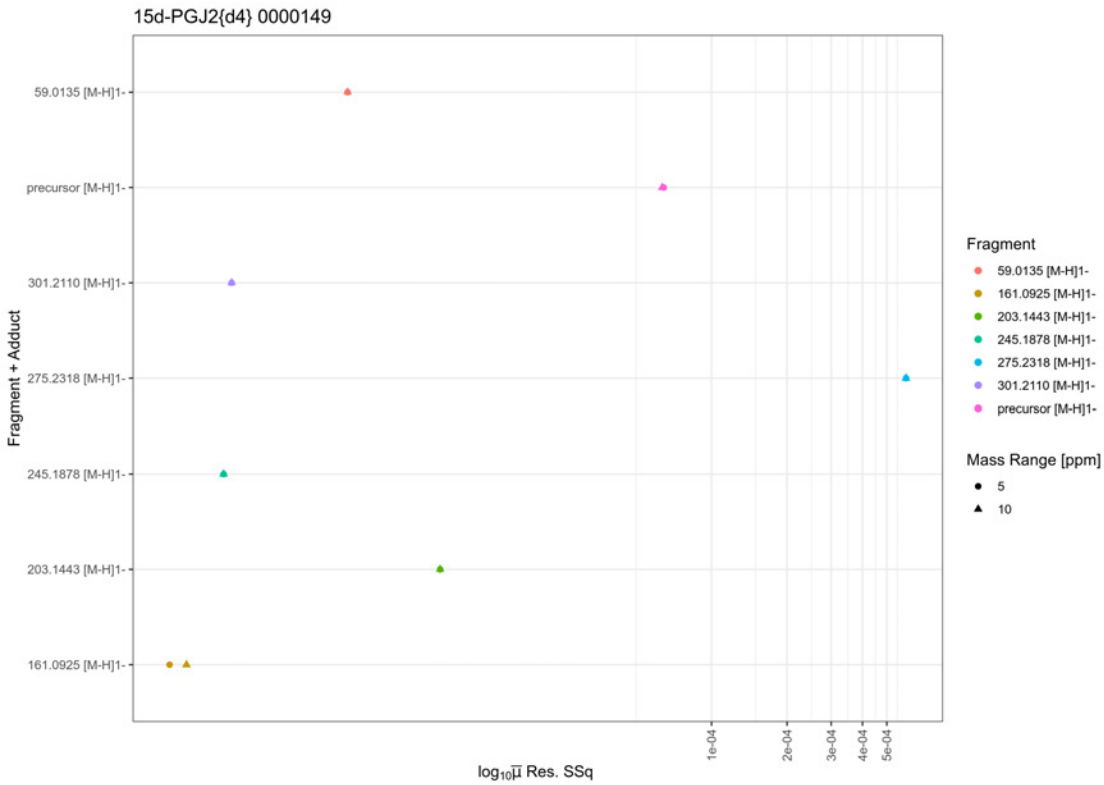


Figure 89. Normalized sum-of-squares of the residuals

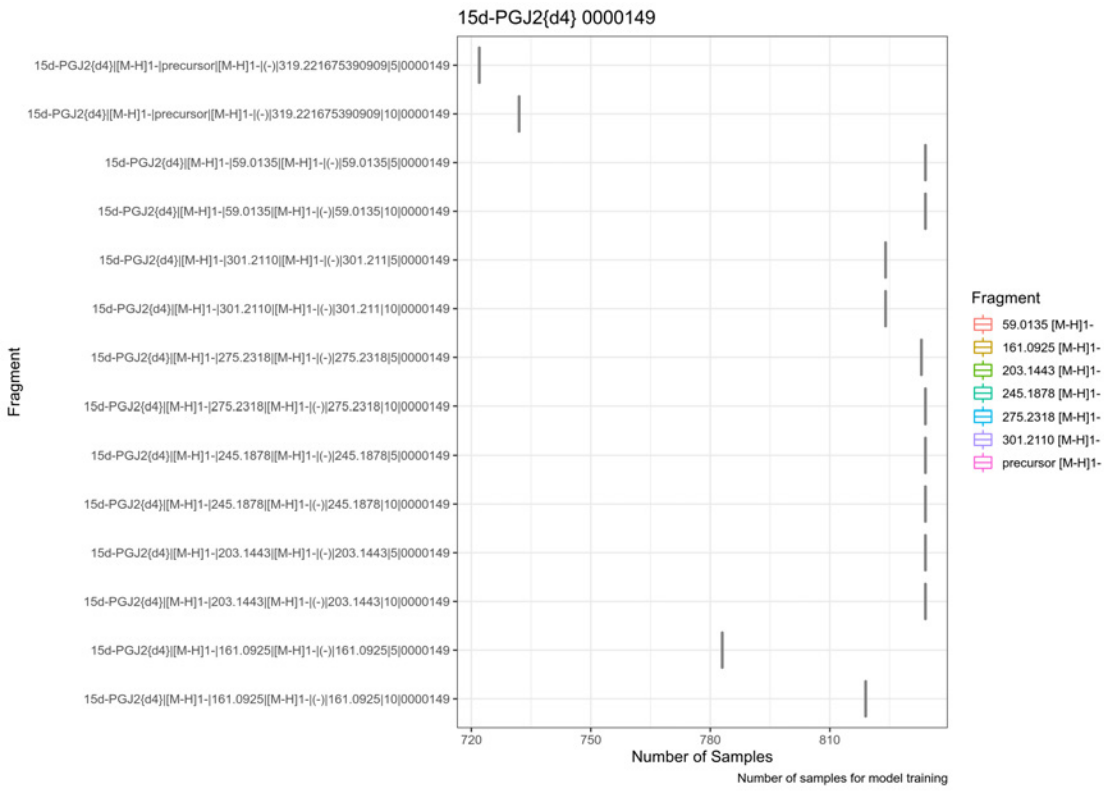


Figure 90. Number of samples used for training per combination Id

# 1.19. 16-HDoHE [M-H]1- 0001271

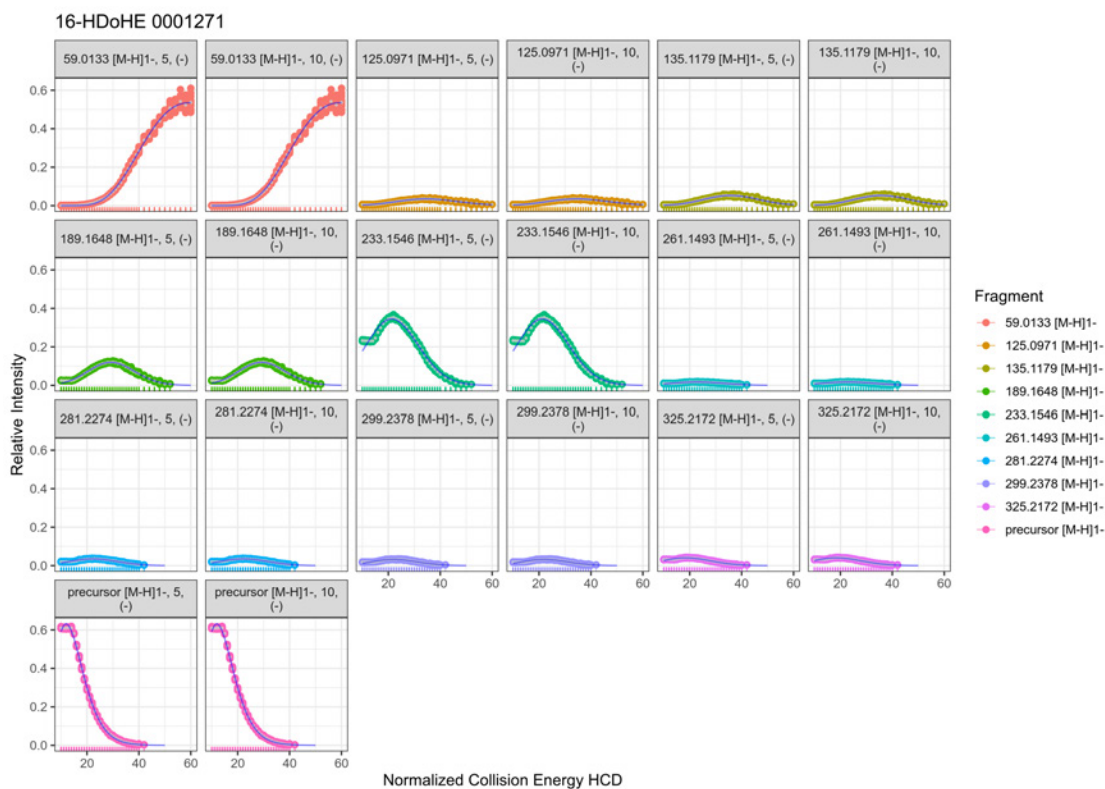


Figure 91. Nonlinear fit

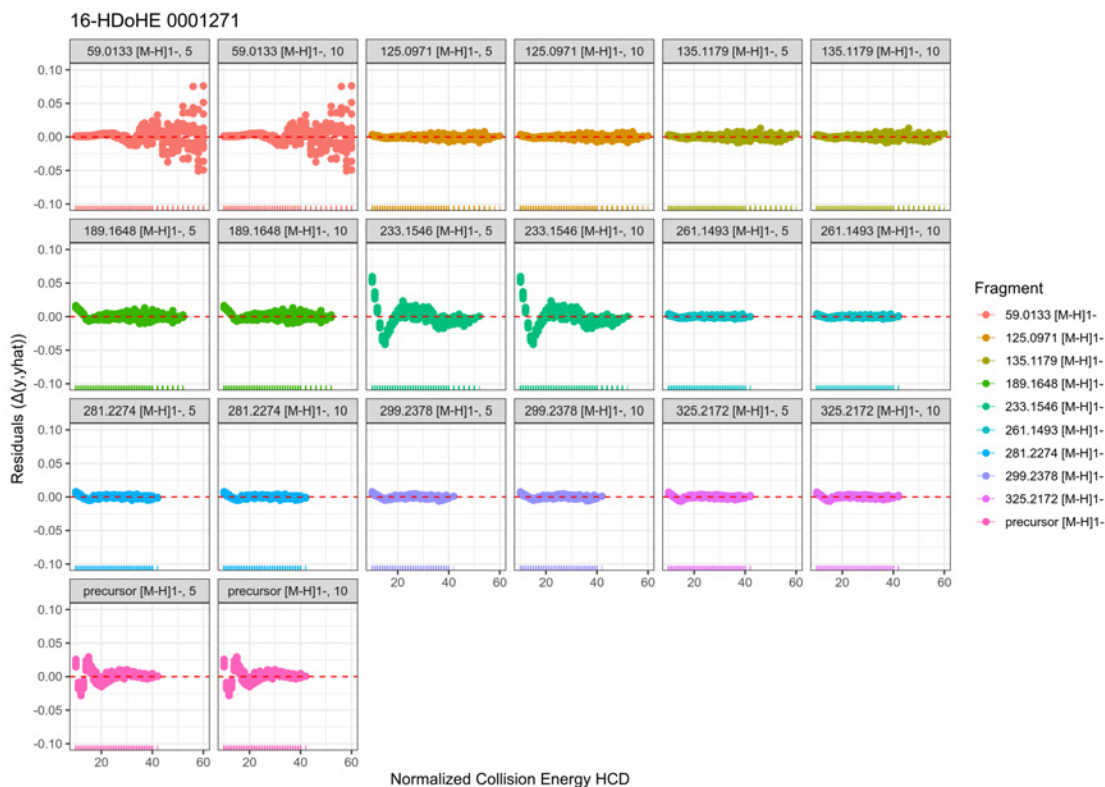


Figure 92. Residuals of nonlinear fit

16-HDoHE 0001271

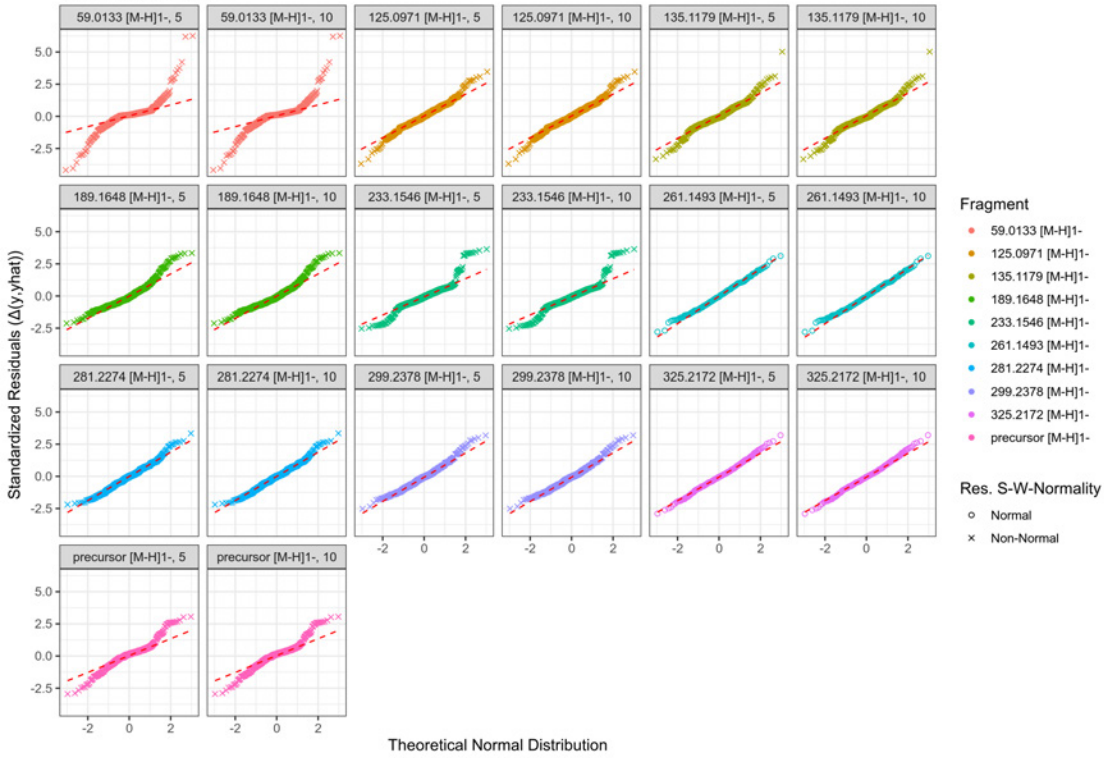


Figure 93. Quantile-quantile plot of residuals

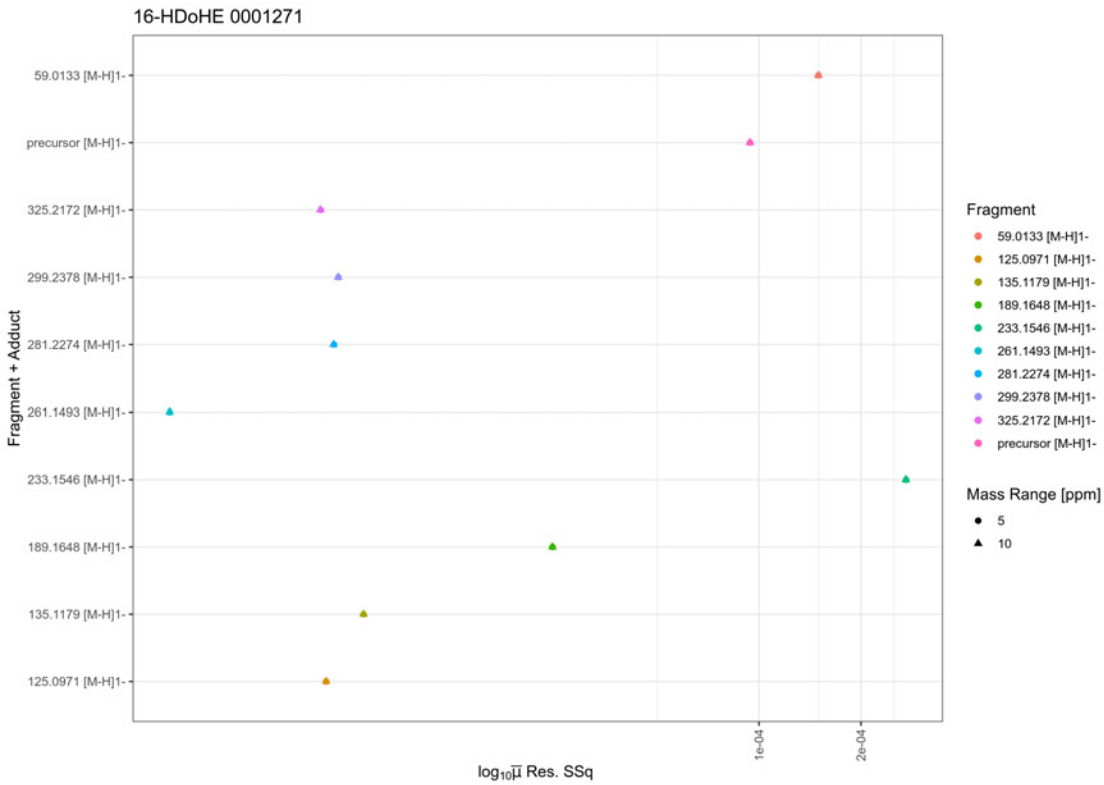


Figure 94. Normalized sum-of-squares of the residuals



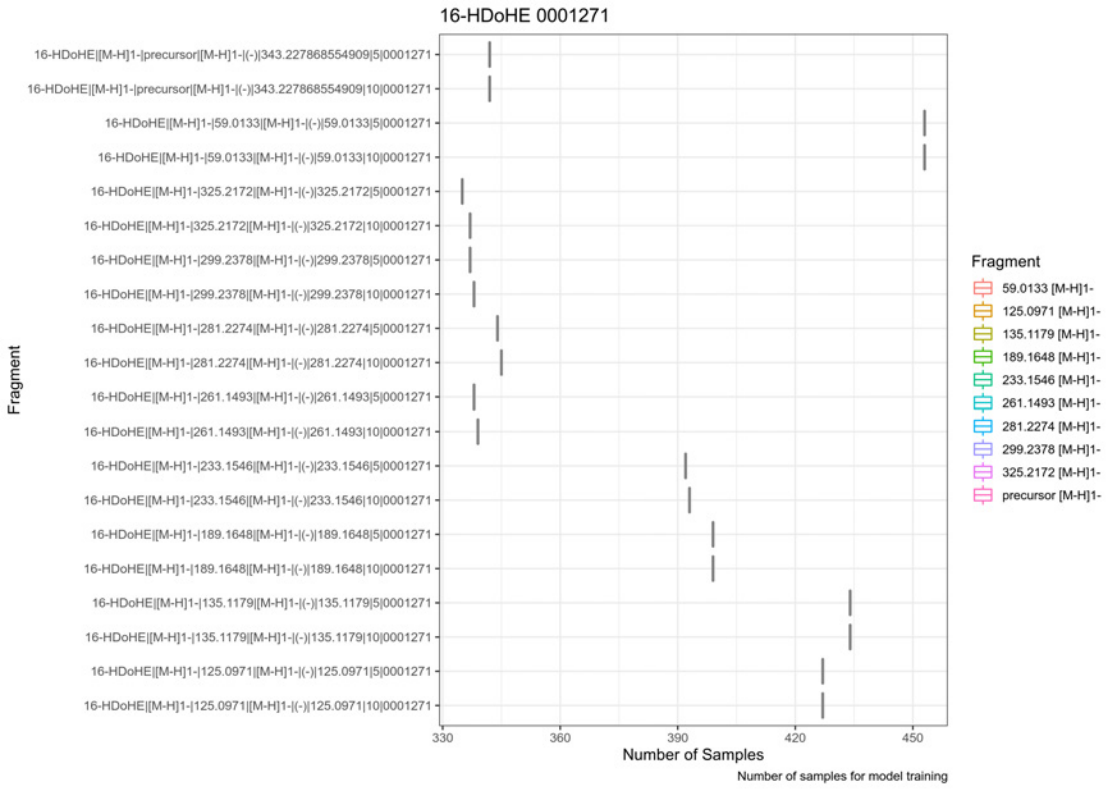


Figure 95. Number of samples used for training per combination Id

# 1.20. 18-HEPE [M-H]1- 0000131

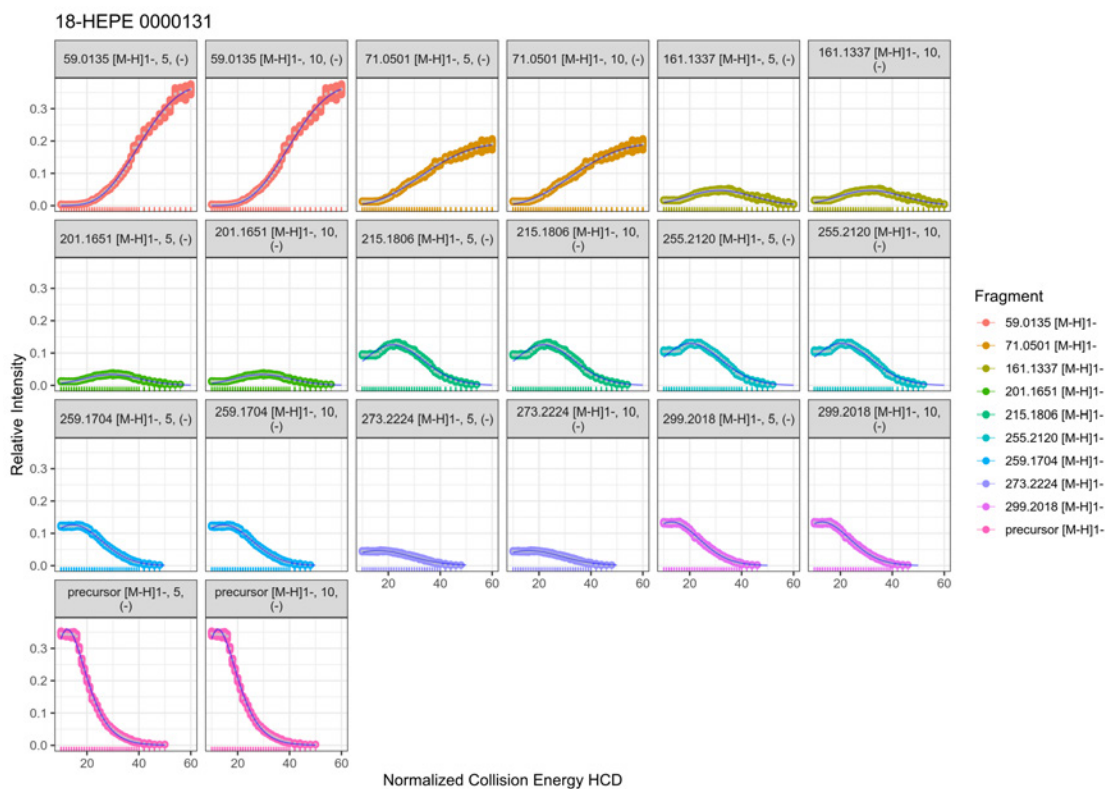


Figure 96. Nonlinear fit

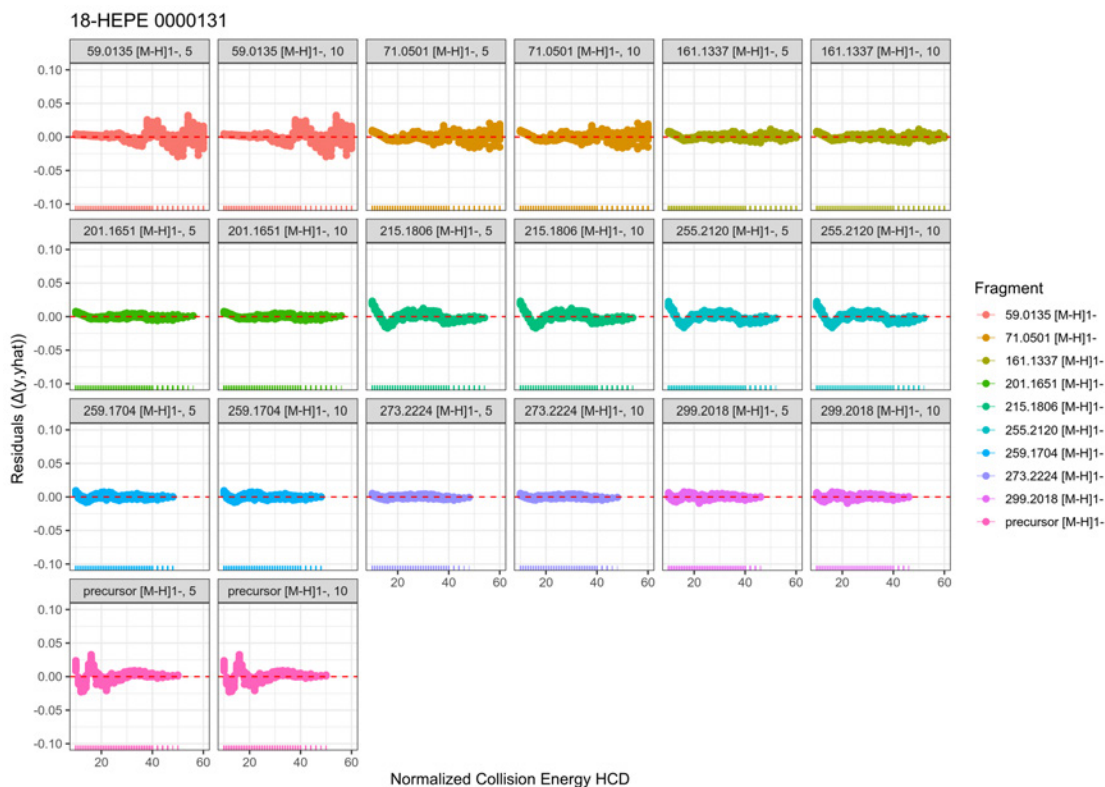


Figure 97. Residuals of nonlinear fit

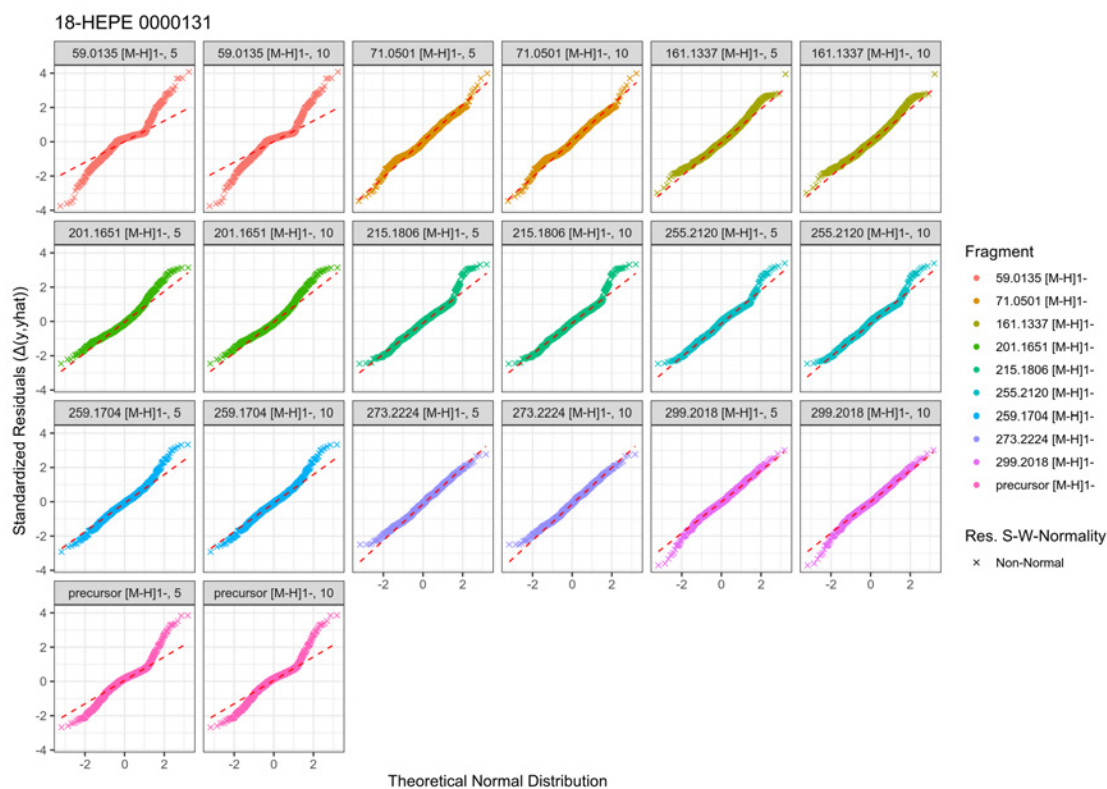


Figure 98. Quantile-quantile plot of residuals

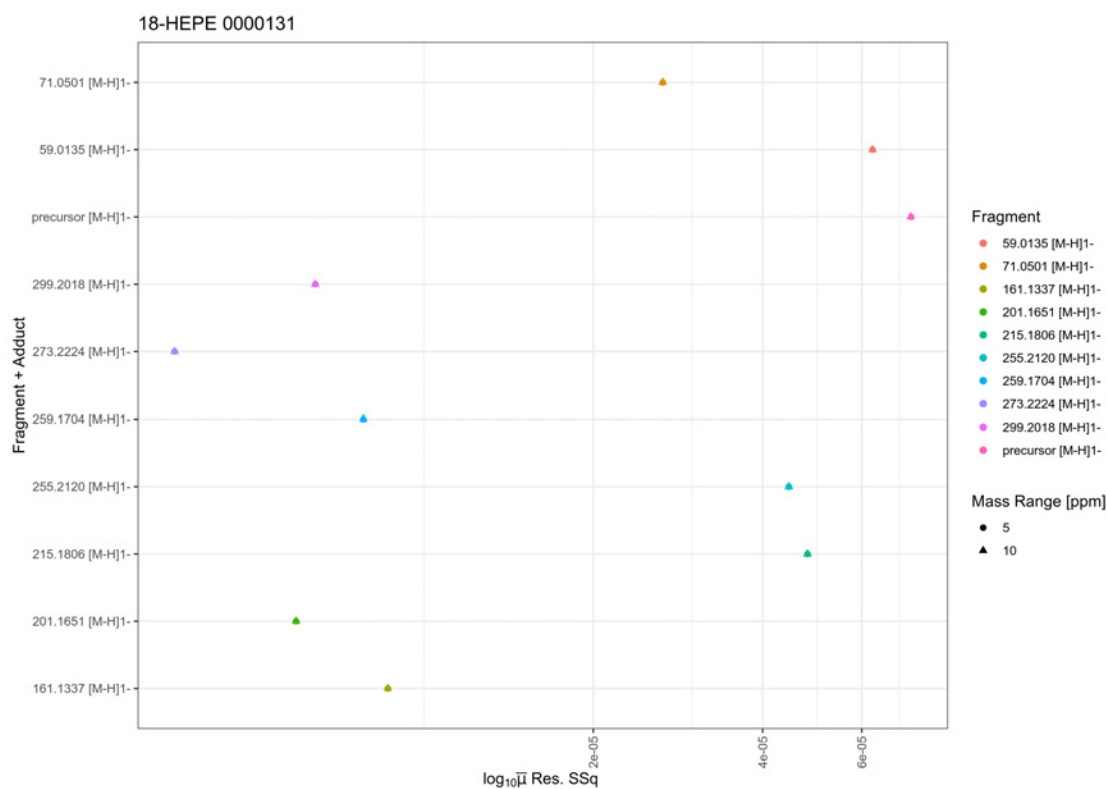


Figure 99. Normalized sum-of-squares of the residuals

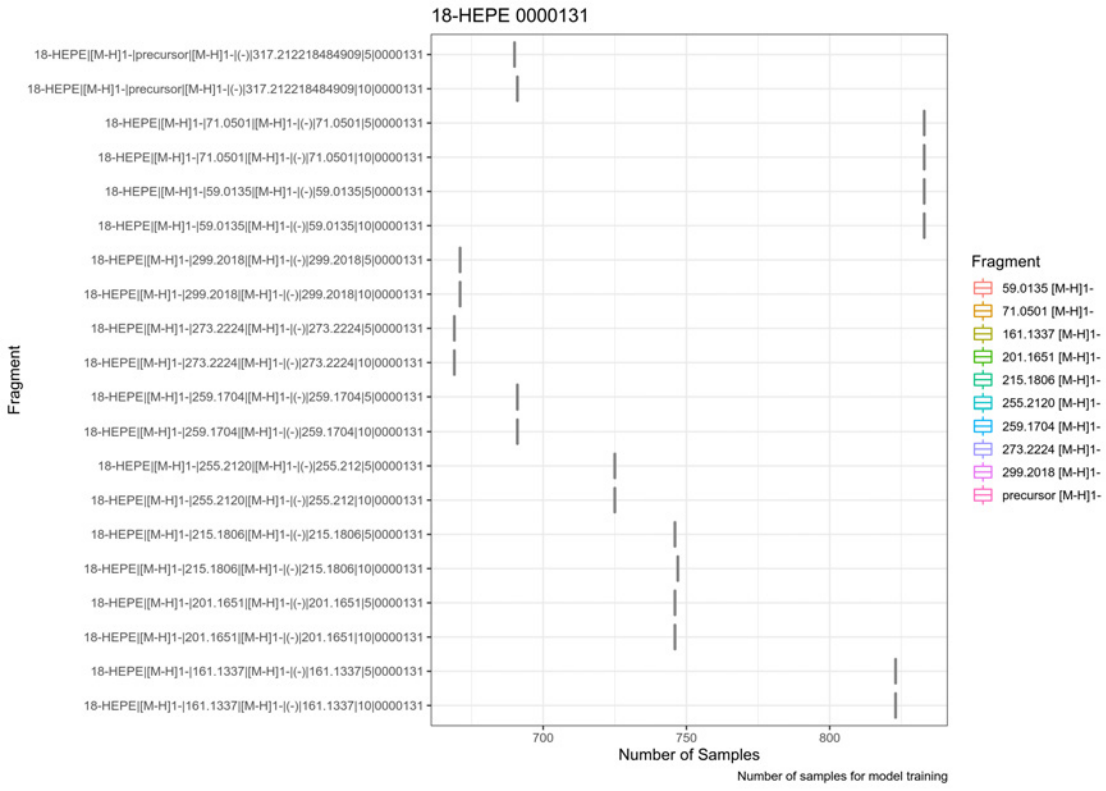


Figure 100. Number of samples used for training per combination Id

# 1.21. 5(6)-EET{d11} [M-H]1- 0000161

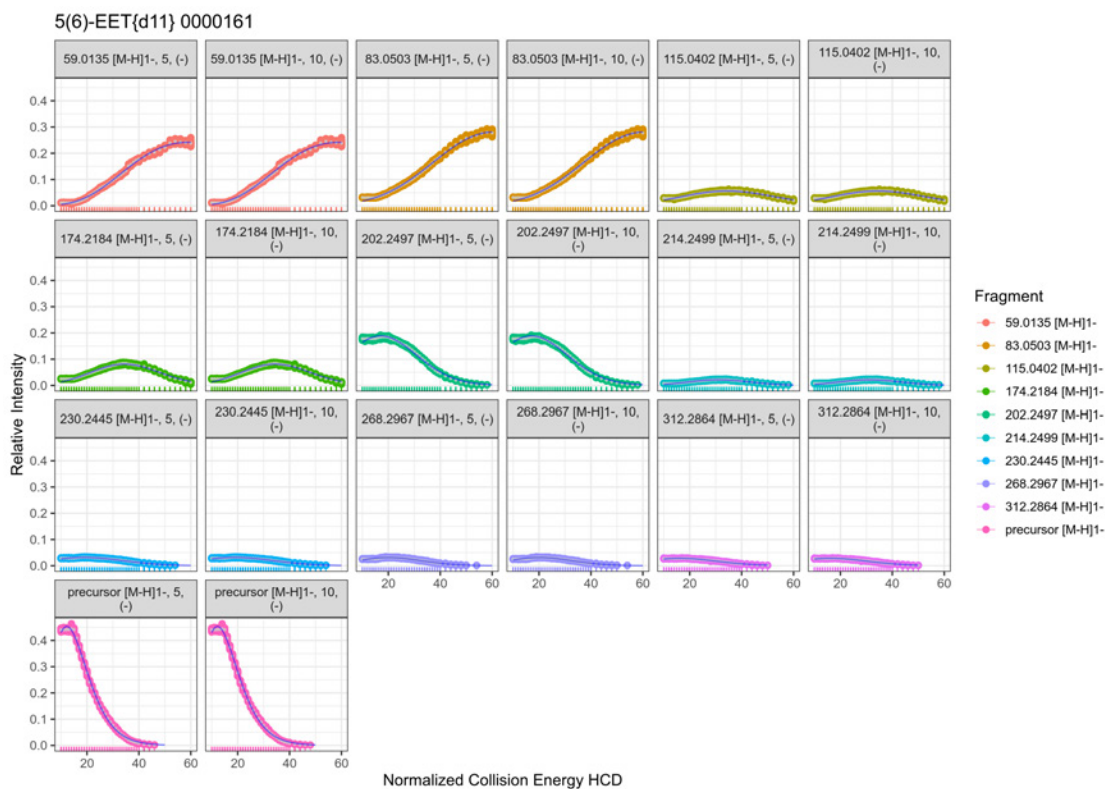


Figure 101. Nonlinear fit

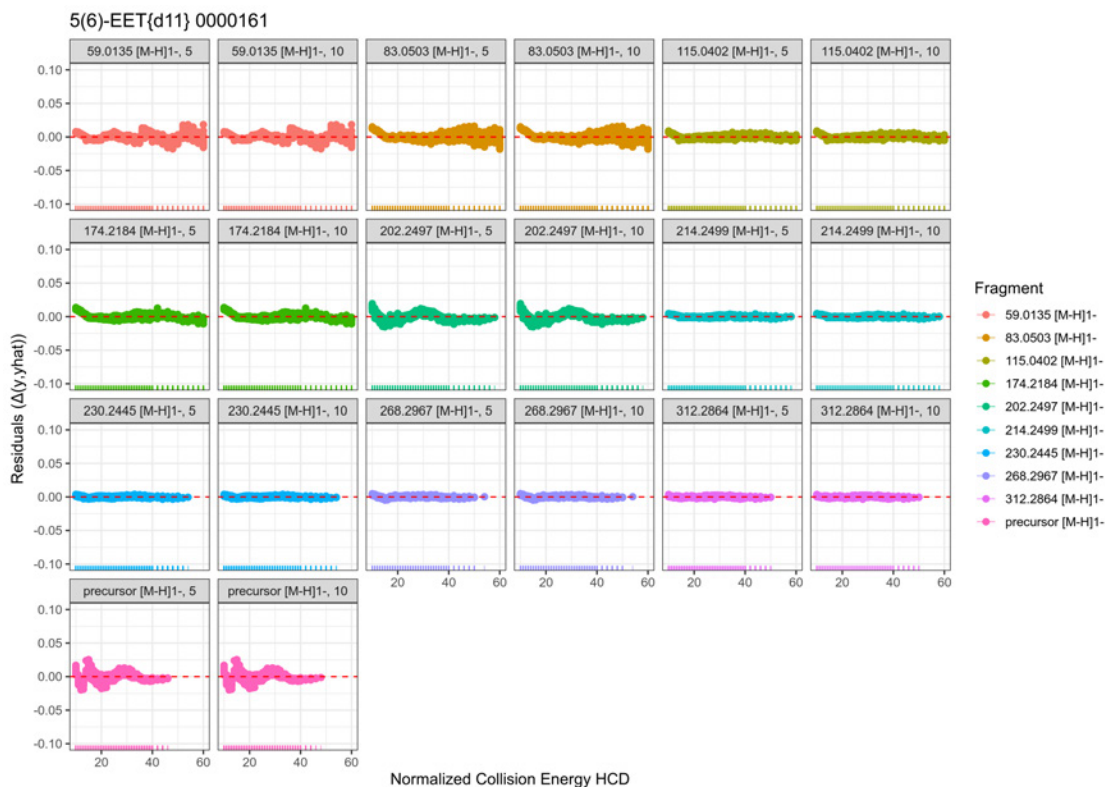


Figure 102. Residuals of nonlinear fit

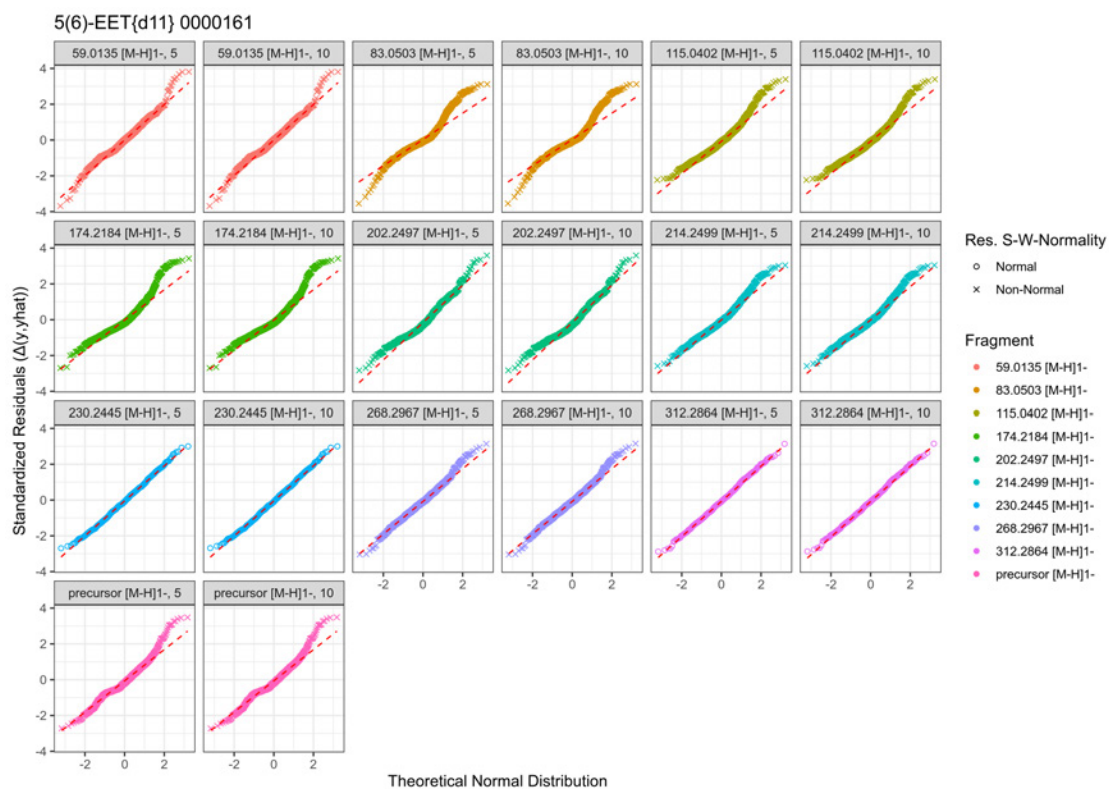


Figure 103. Quantile-quantile plot of residuals

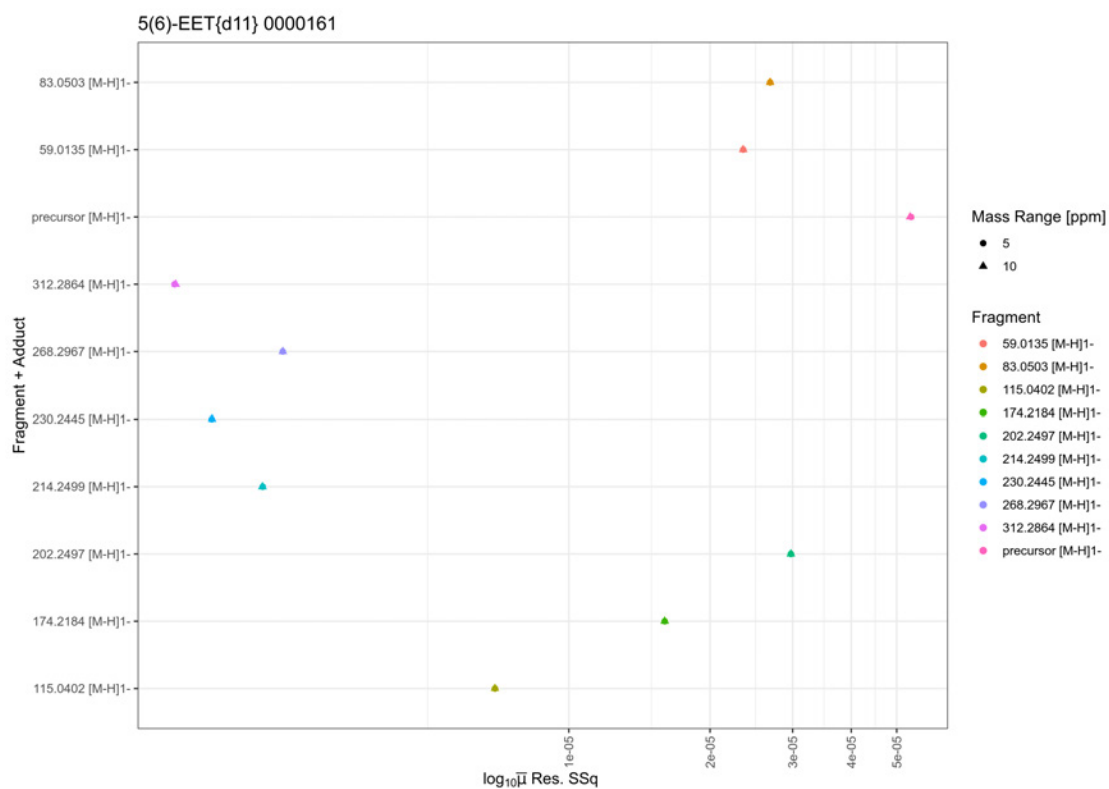


Figure 104. Normalized sum-of-squares of the residuals



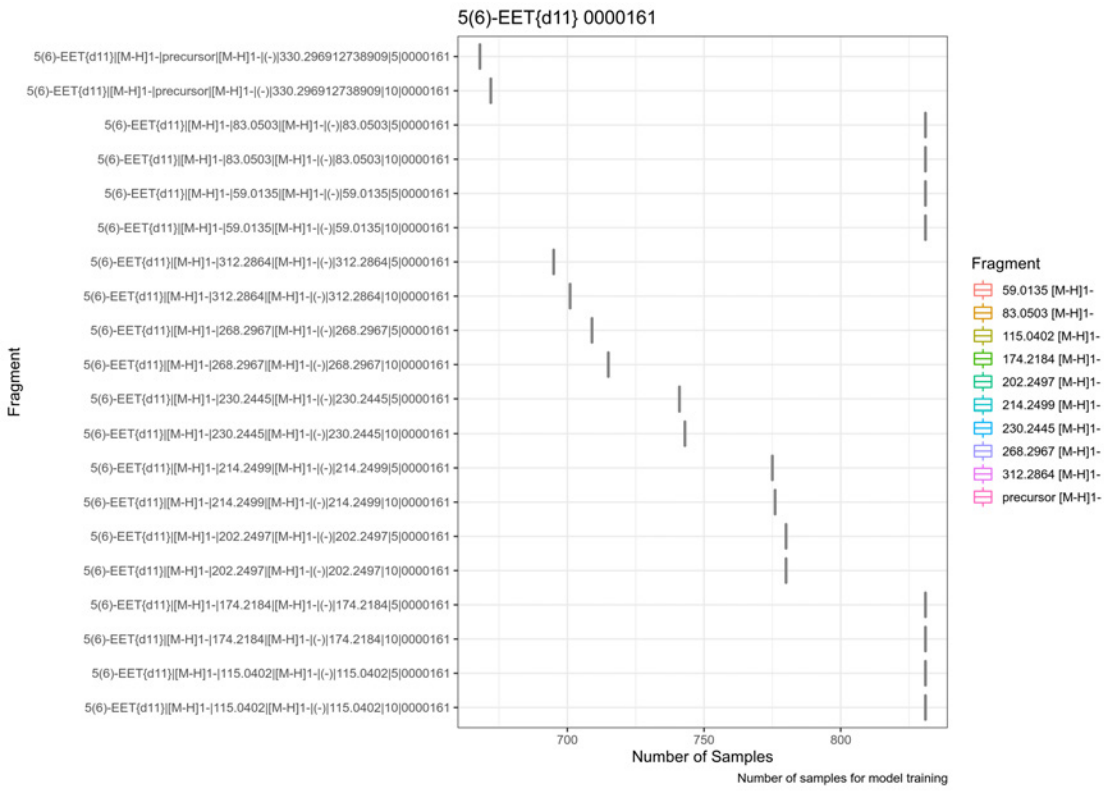


Figure 105. Number of samples used for training per combination Id

# 1.22. 5,12-DiHETE [M-H]1- 0001299

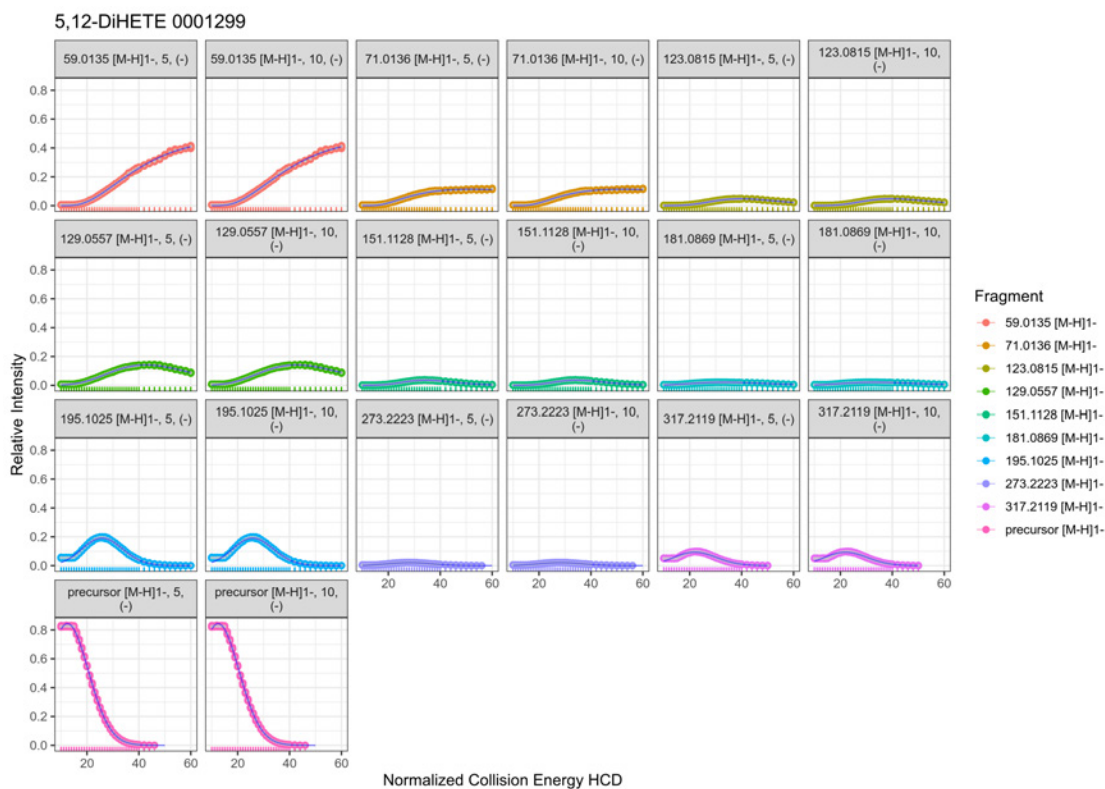


Figure 106. Nonlinear fit

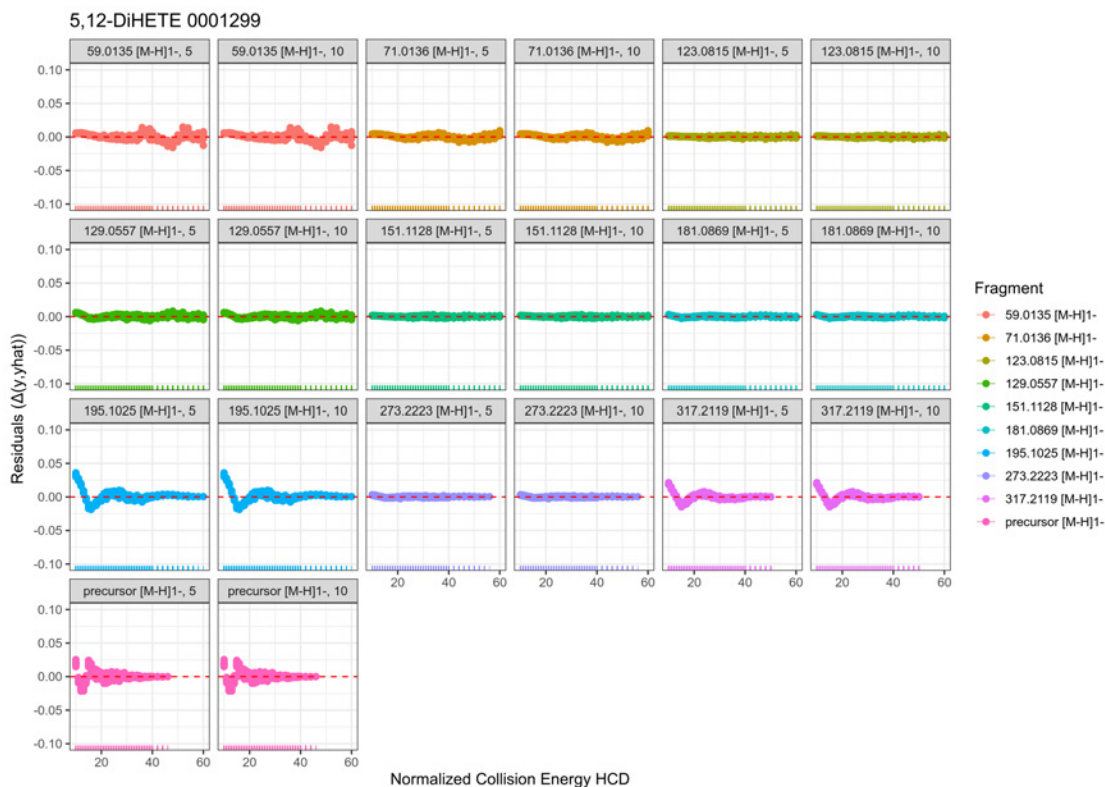


Figure 107. Residuals of nonlinear fit

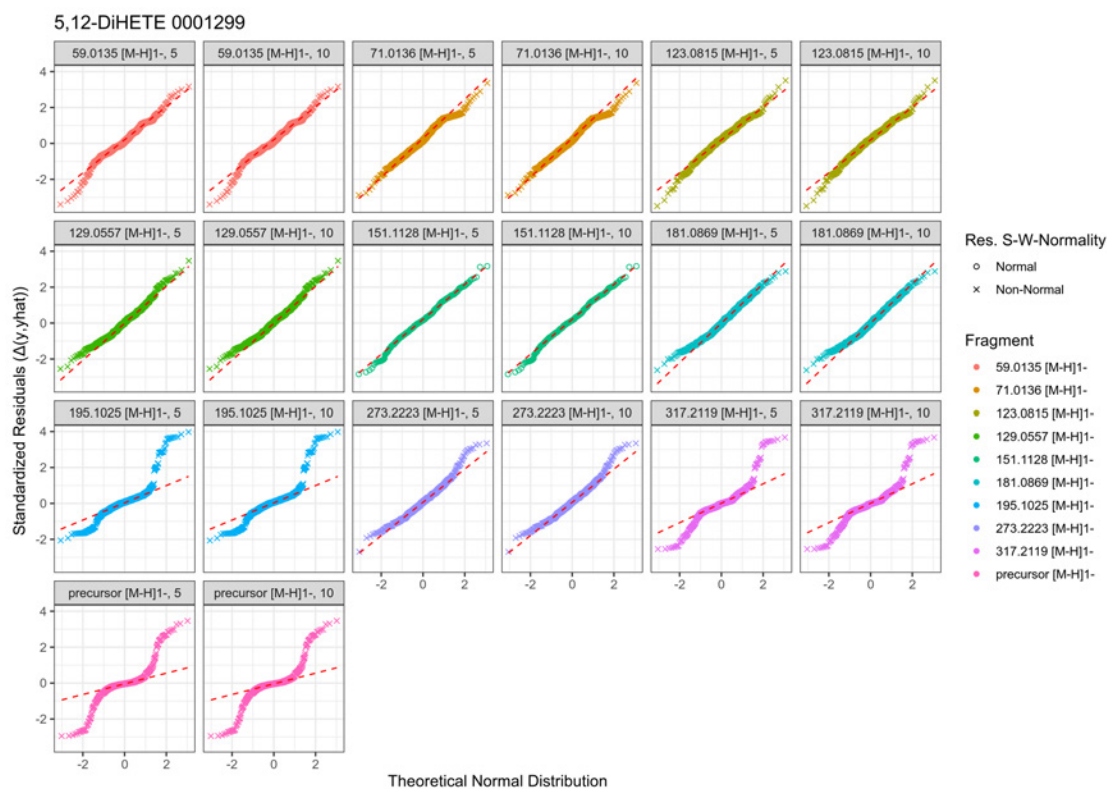


Figure 108. Quantile-quantile plot of residuals

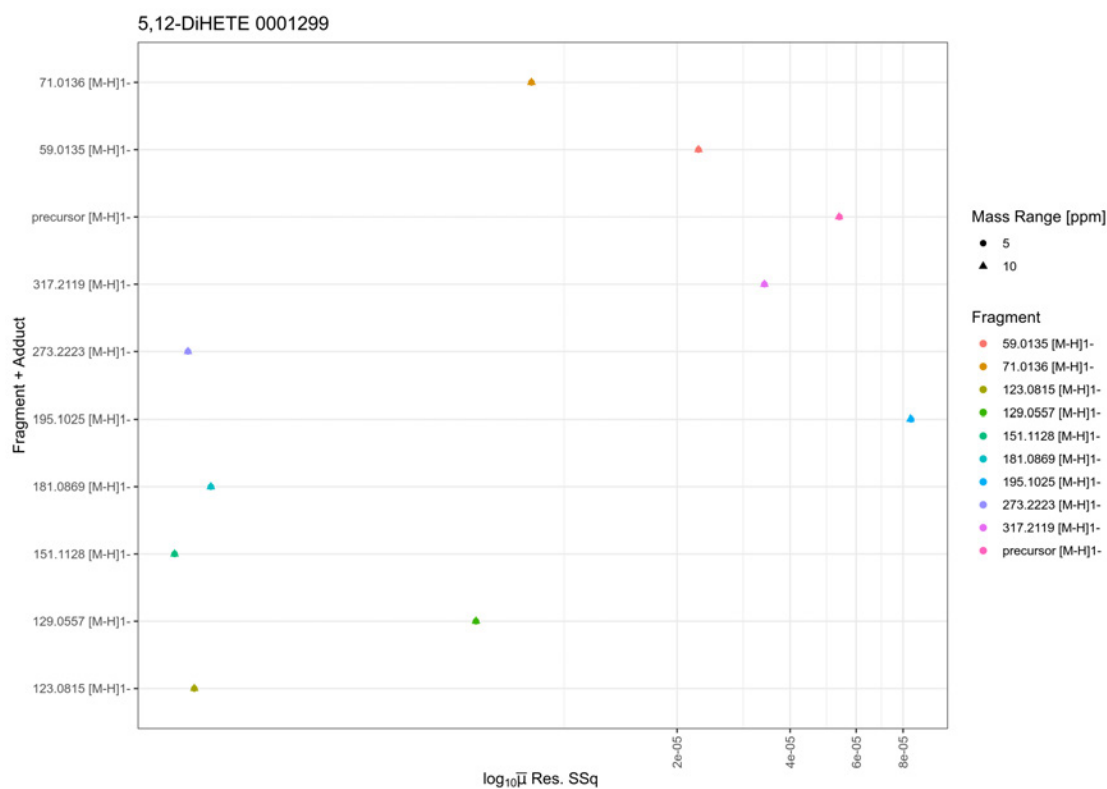


Figure 109. Normalized sum-of-squares of the residuals

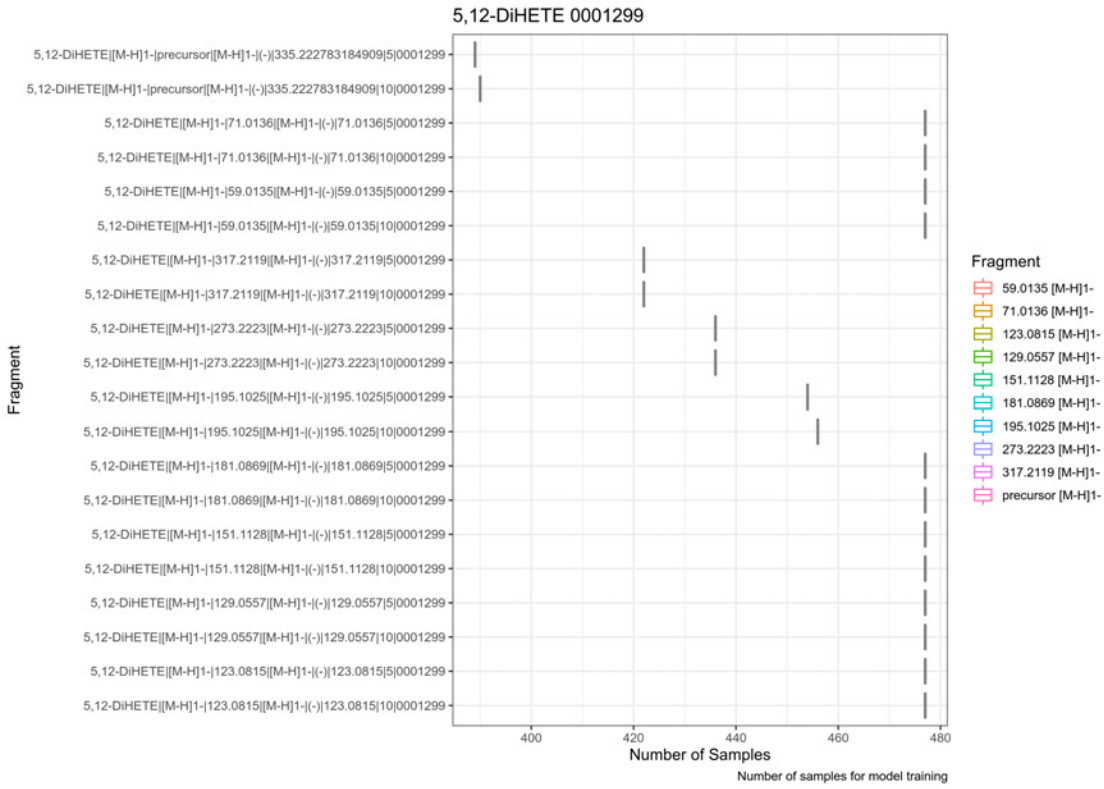


Figure 110. Number of samples used for training per combination Id

# 1.23. 5,6-DiHETE [M-H]1- 0001301

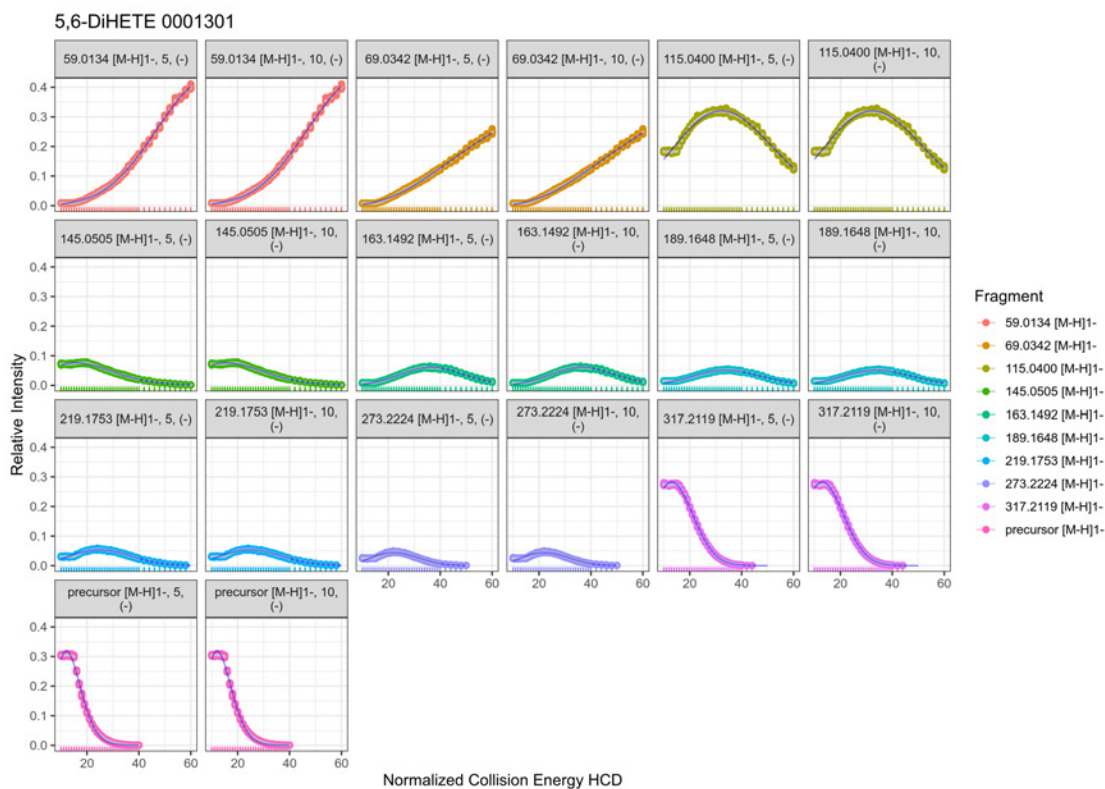


Figure 111. Nonlinear fit

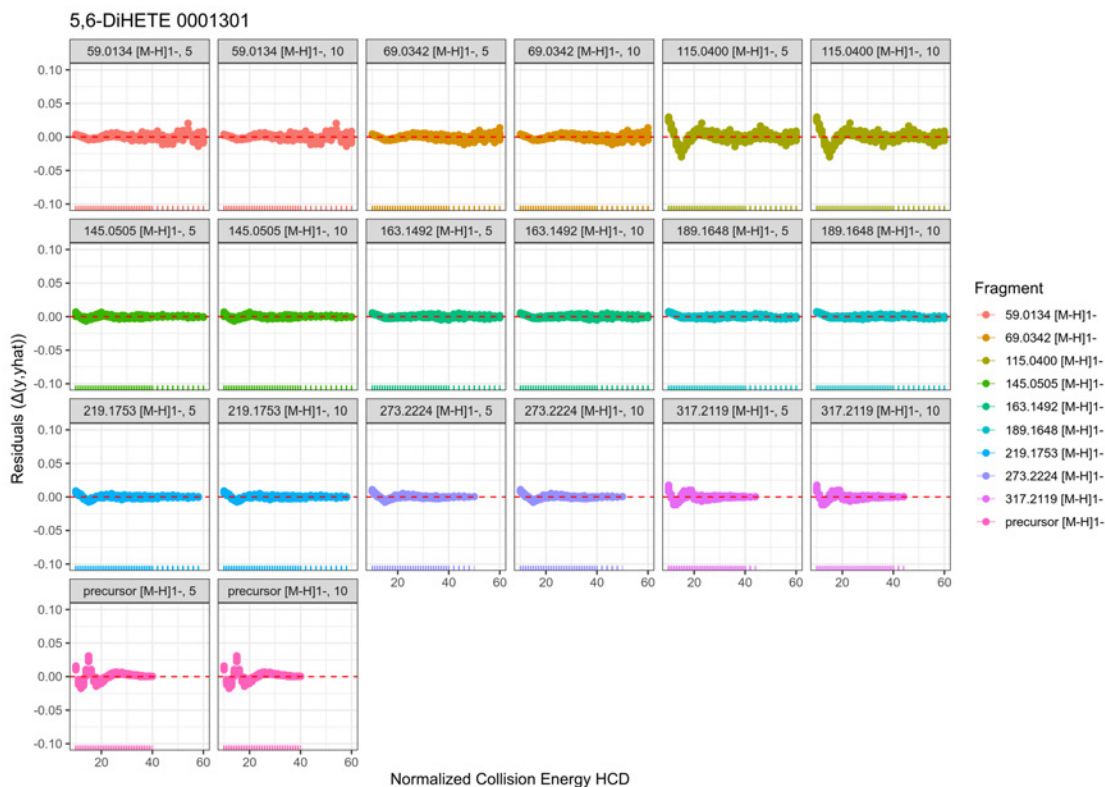


Figure 112. Residuals of nonlinear fit

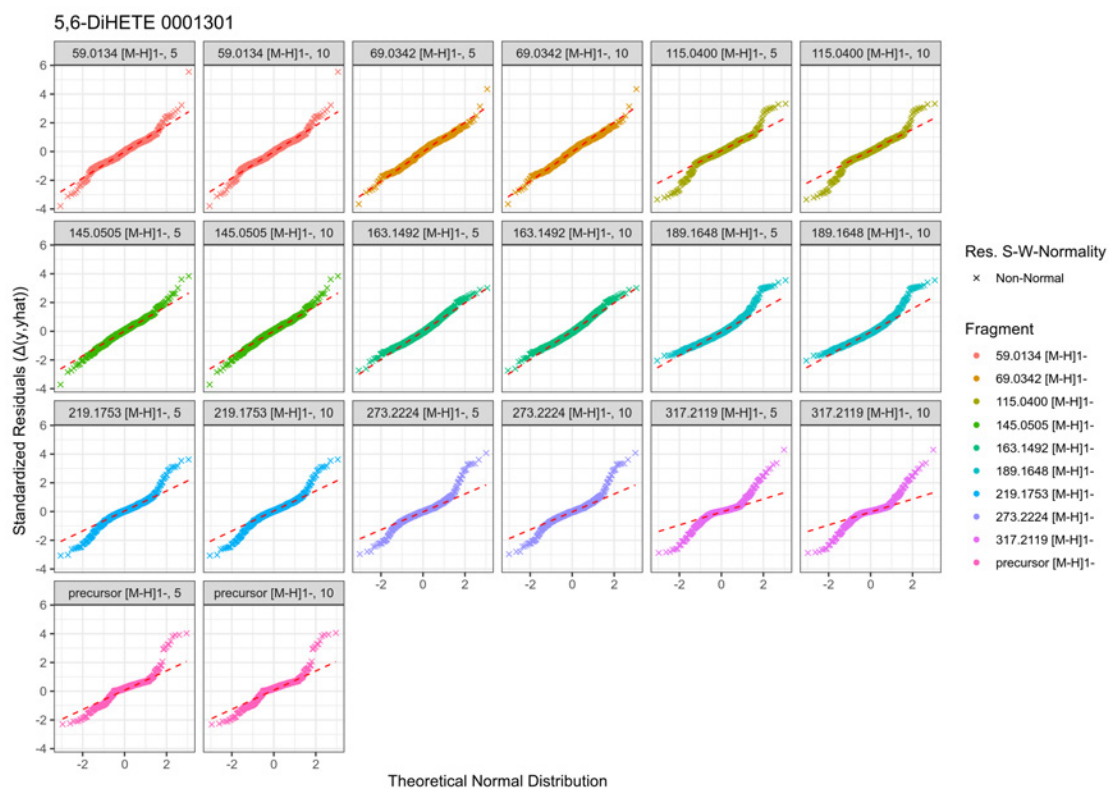


Figure 113. Quantile-quantile plot of residuals

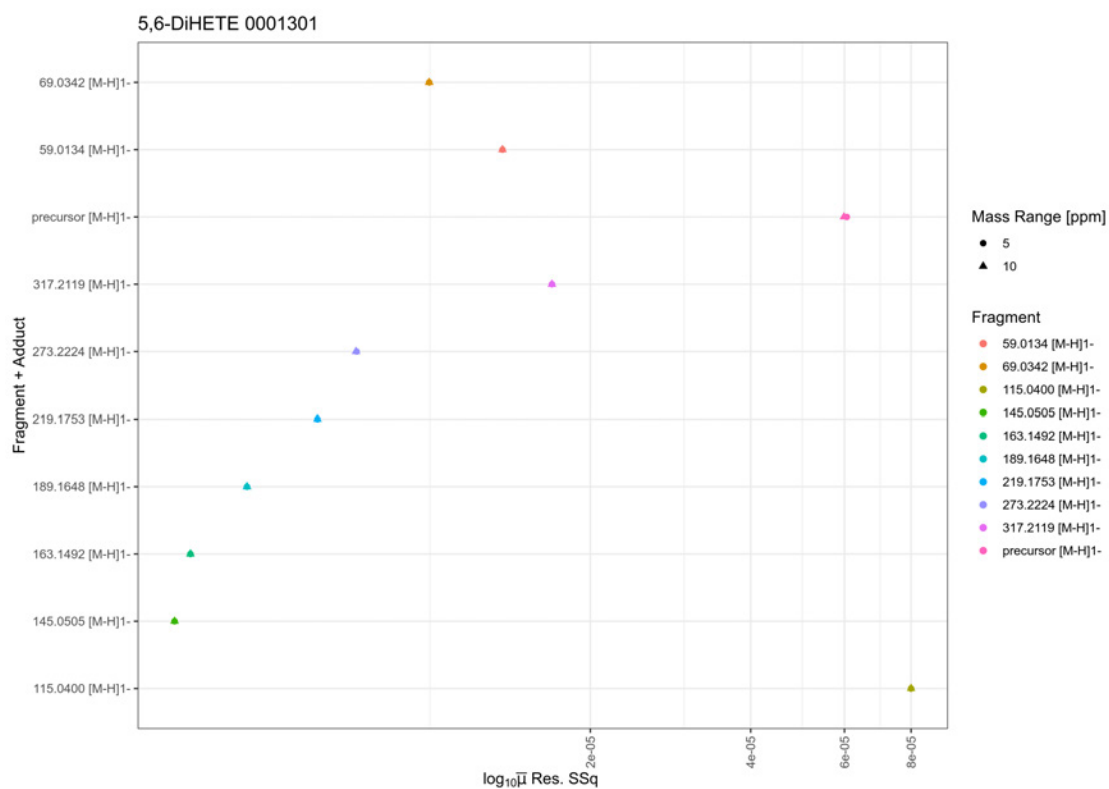


Figure 114. Normalized sum-of-squares of the residuals



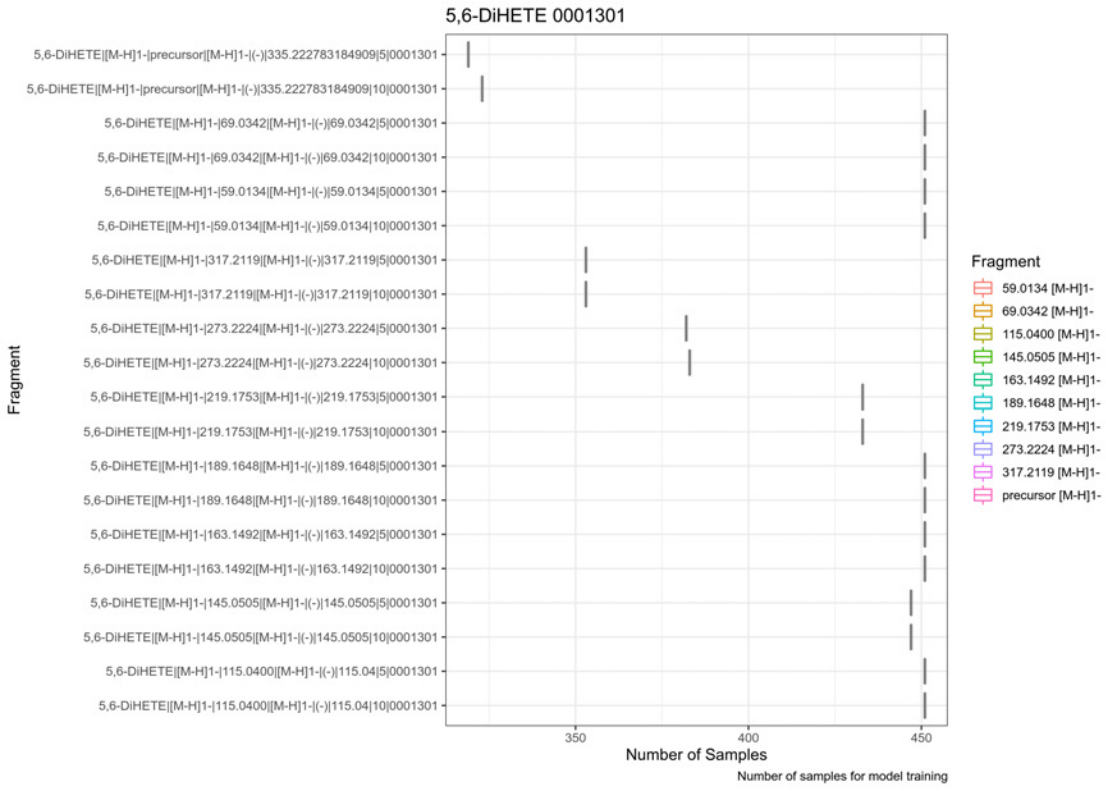


Figure 115. Number of samples used for training per combination Id

# 1.24. 5-HEPE [M-H]1- 0000133

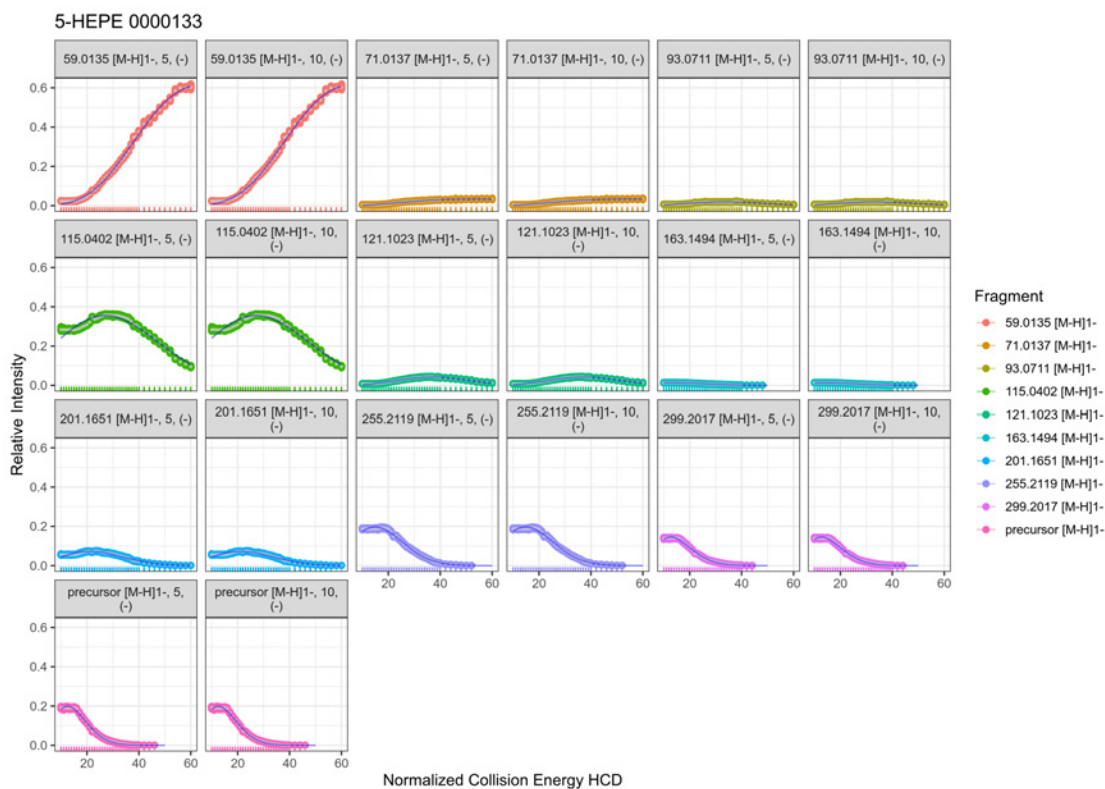


Figure 116. Nonlinear fit

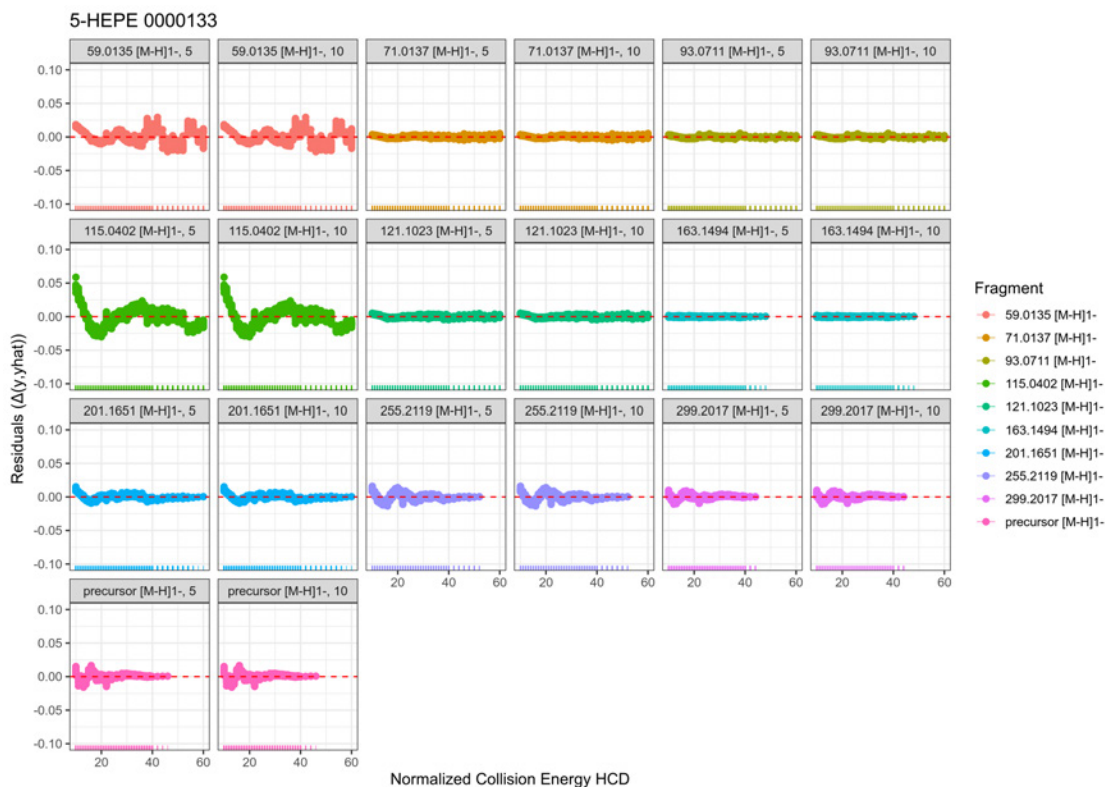


Figure 117. Residuals of nonlinear fit

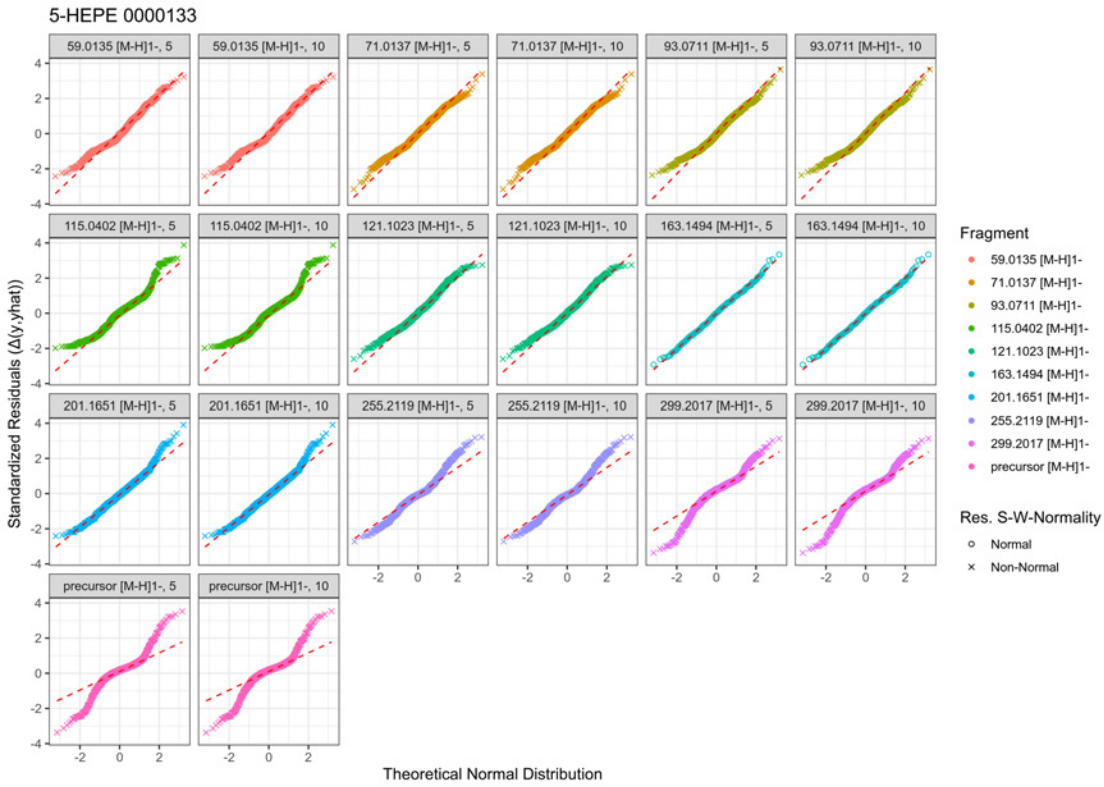


Figure 118. Quantile-quantile plot of residuals

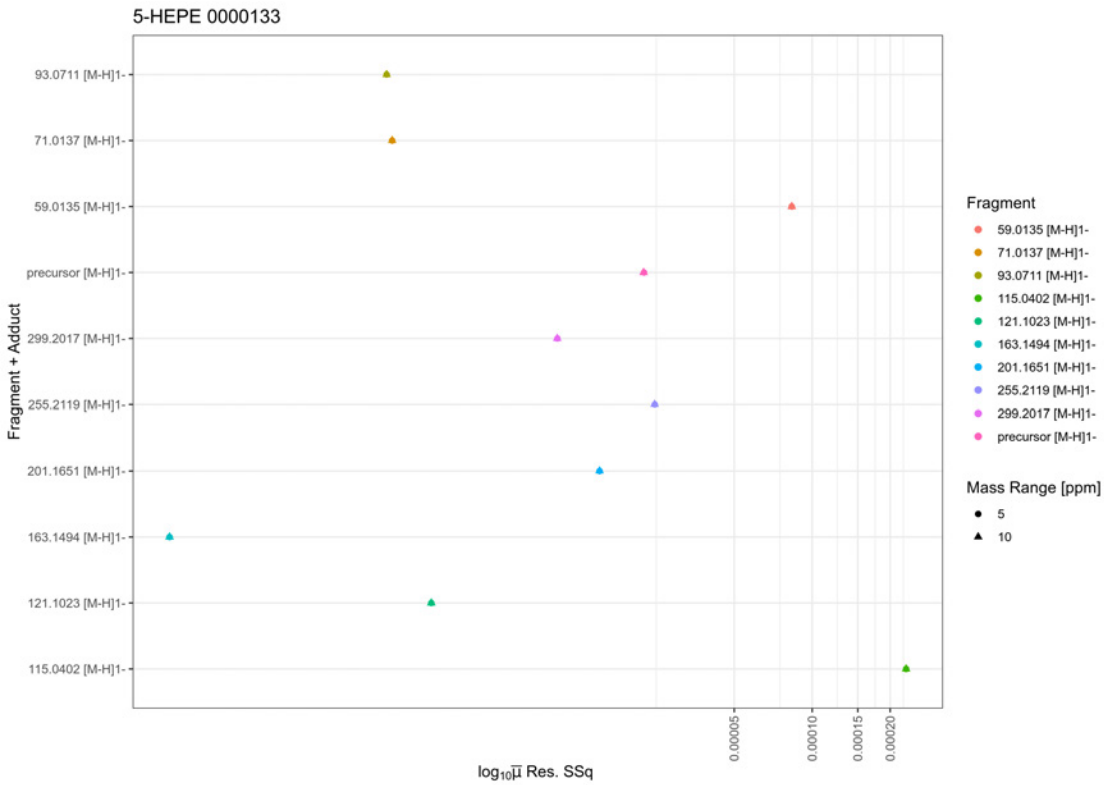


Figure 119. Normalized sum-of-squares of the residuals

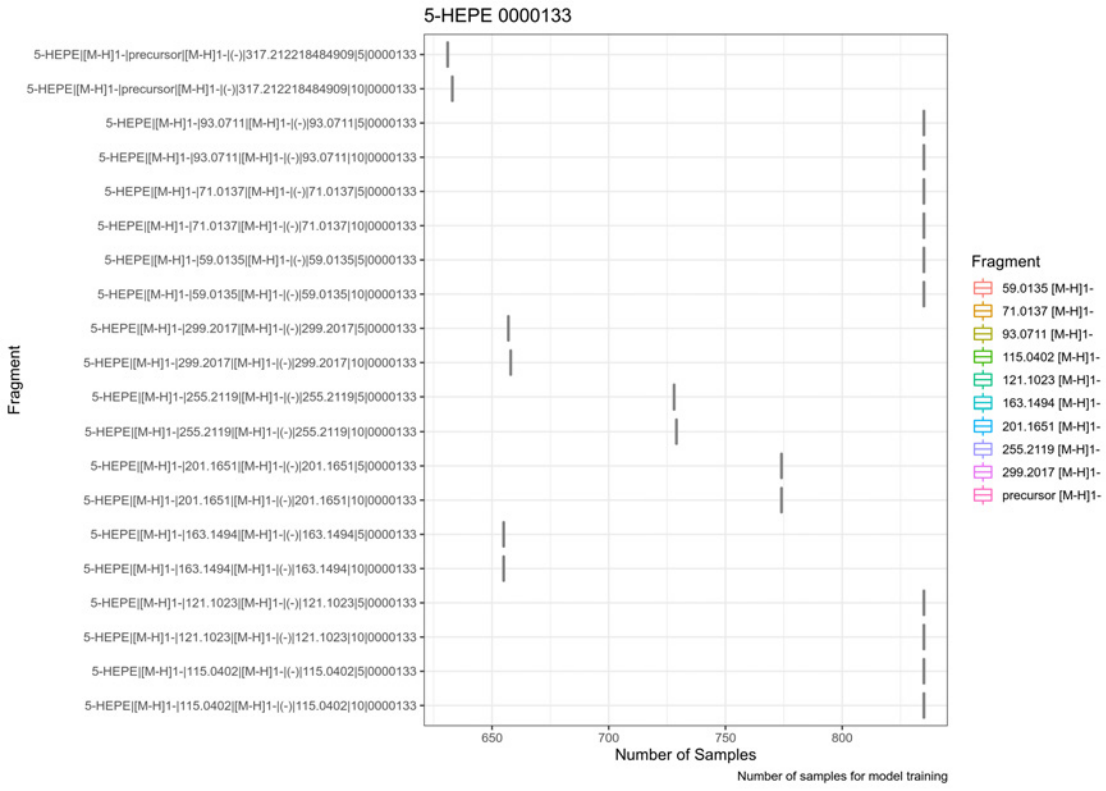


Figure 120. Number of samples used for training per combination Id

# 1.25. 5-HETE{d8} [M-H]1- 0000145

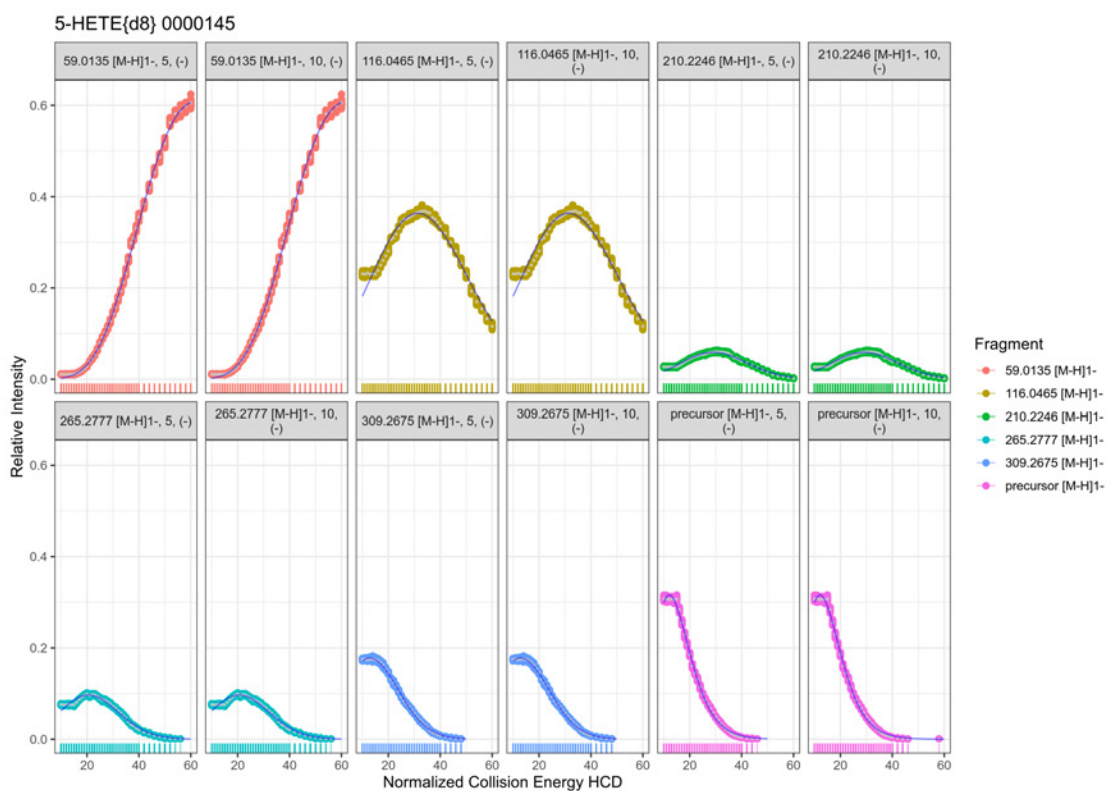


Figure 121. Nonlinear fit

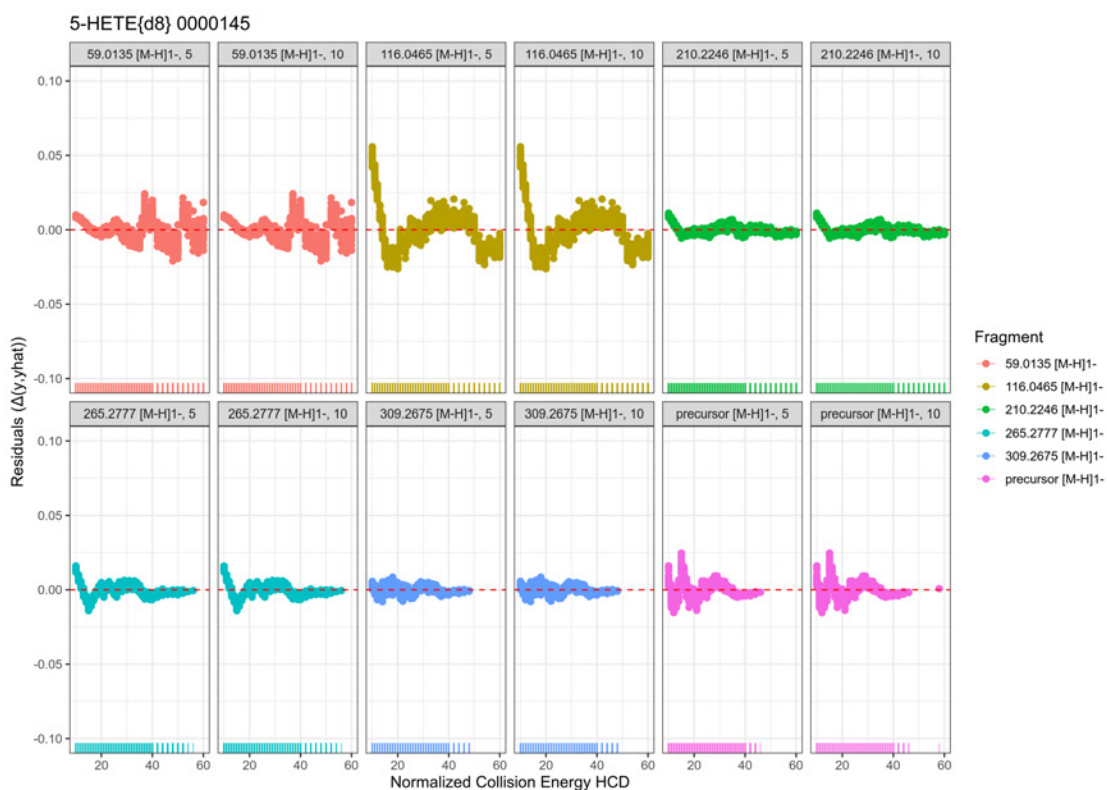


Figure 122. Residuals of nonlinear fit

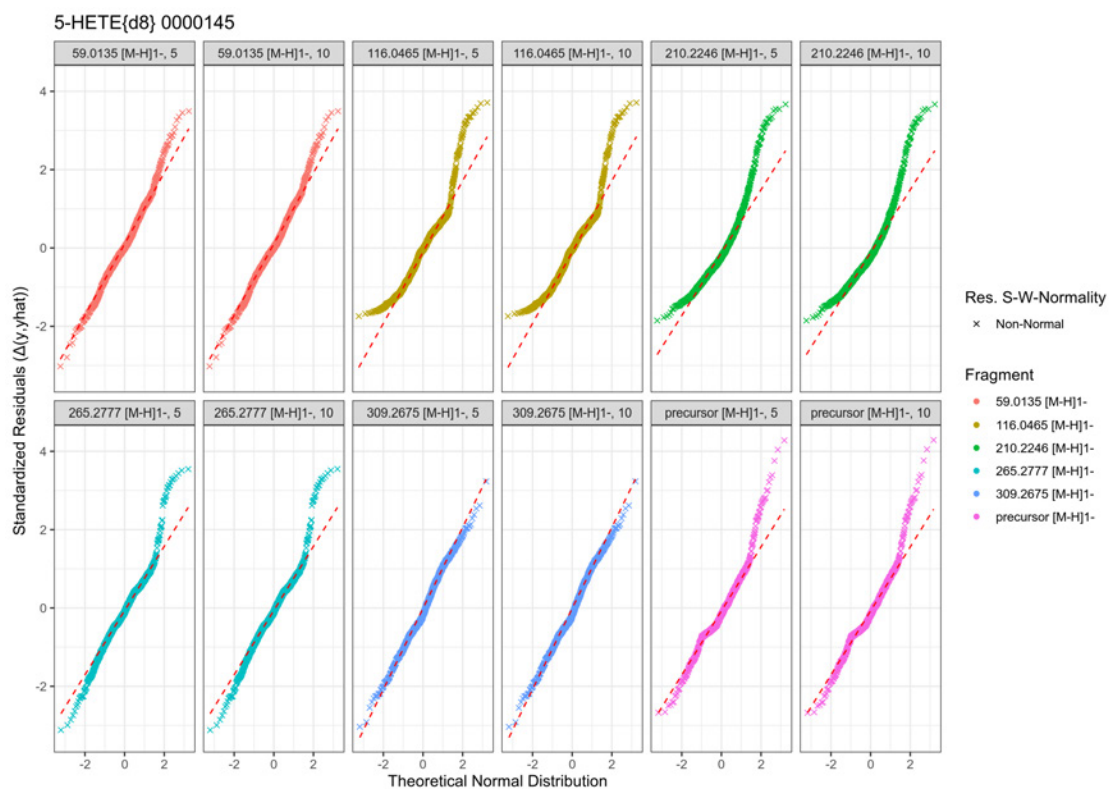


Figure 123. Quantile-quantile plot of residuals

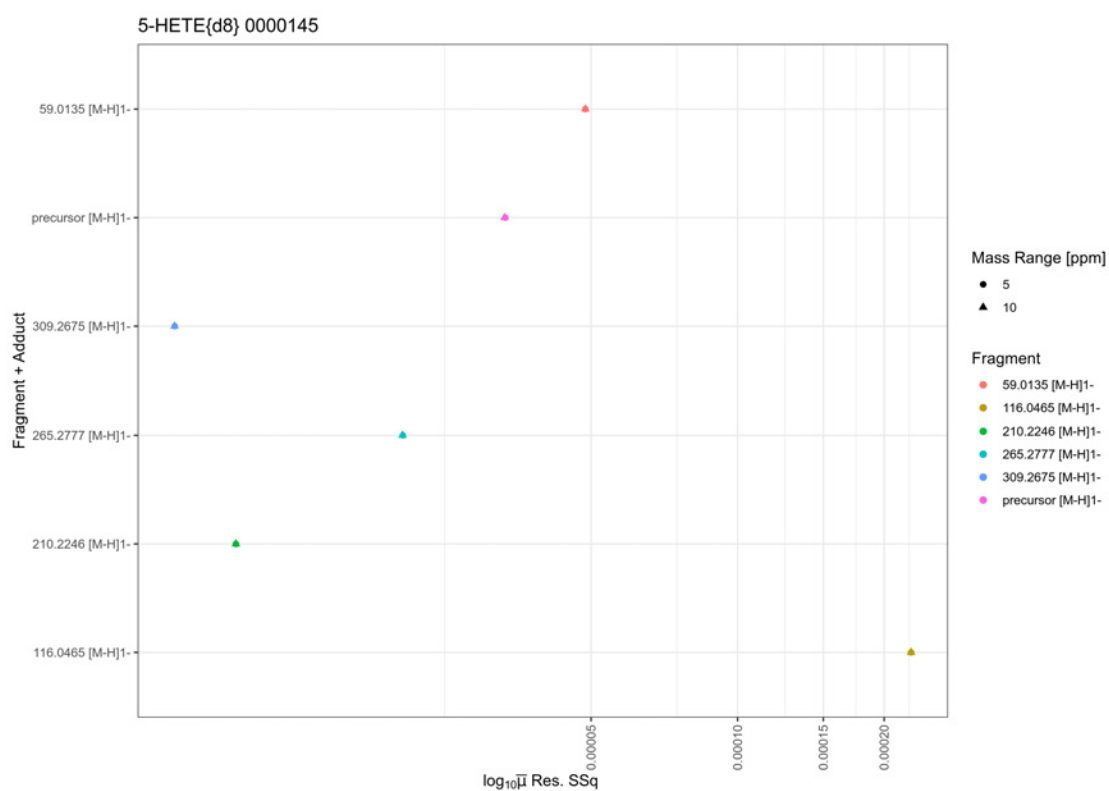


Figure 124. Normalized sum-of-squares of the residuals



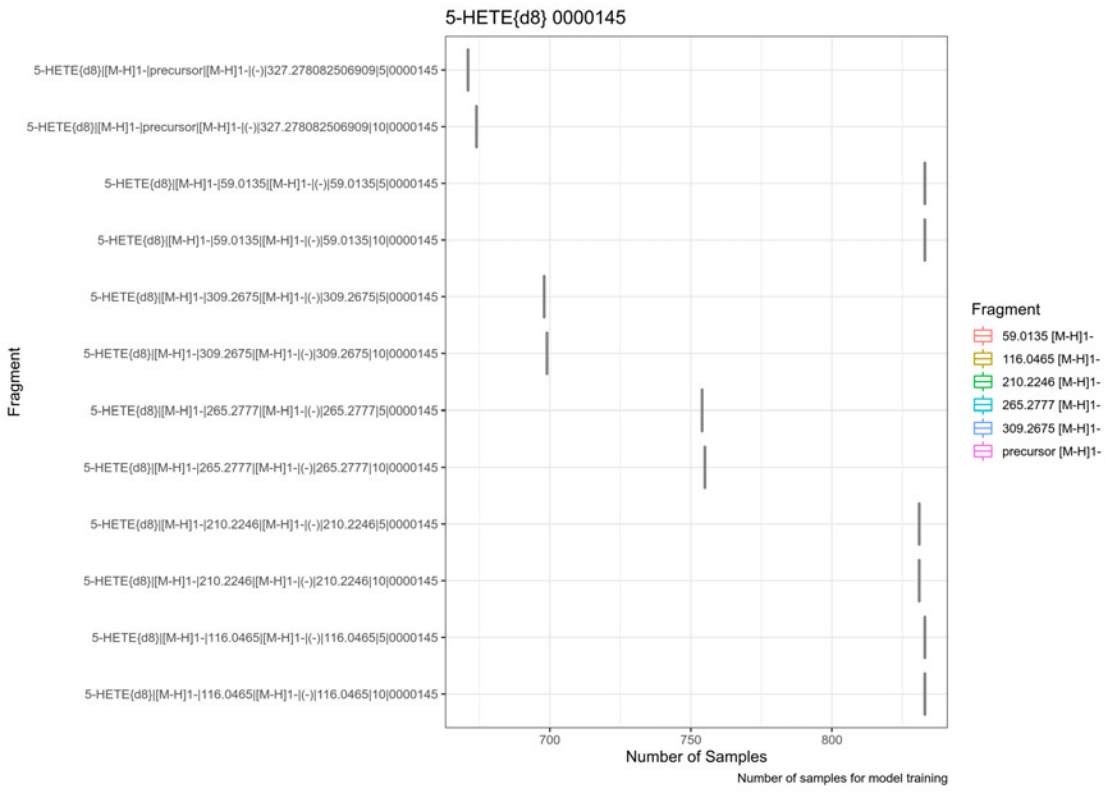


Figure 125. Number of samples used for training per combination Id

# 1.26. 5-HpETE [M-H]1- 0001297

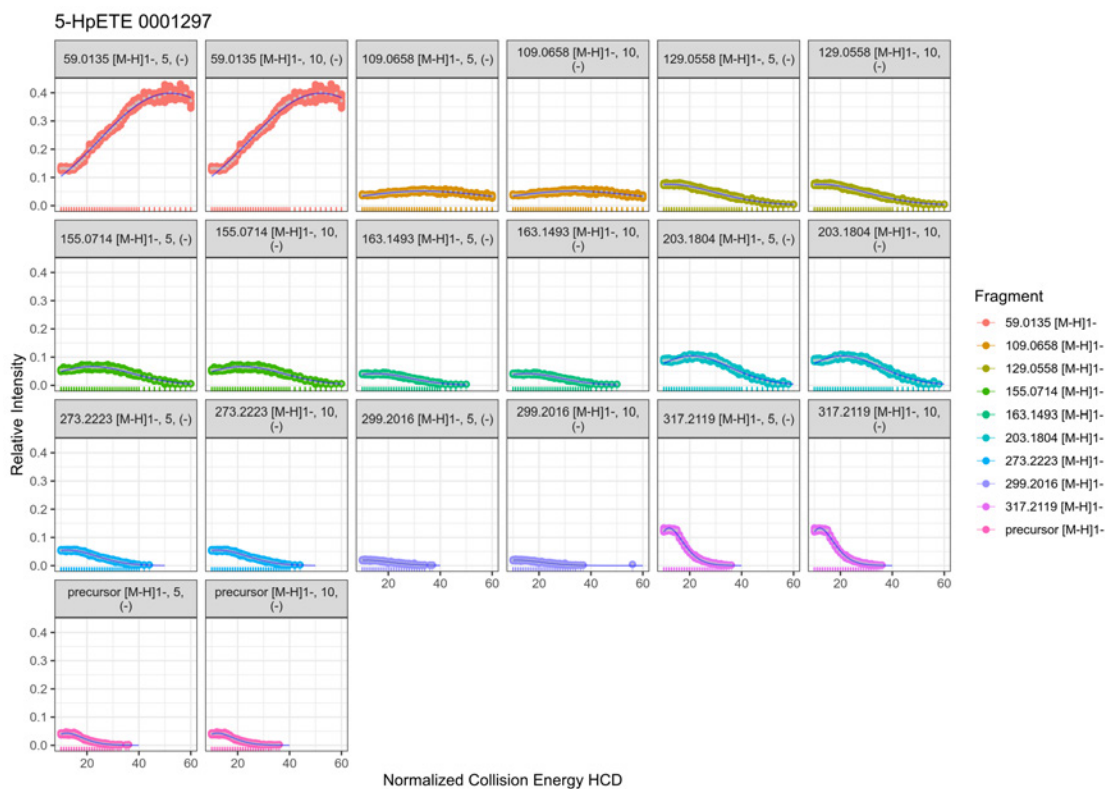


Figure 126. Nonlinear fit

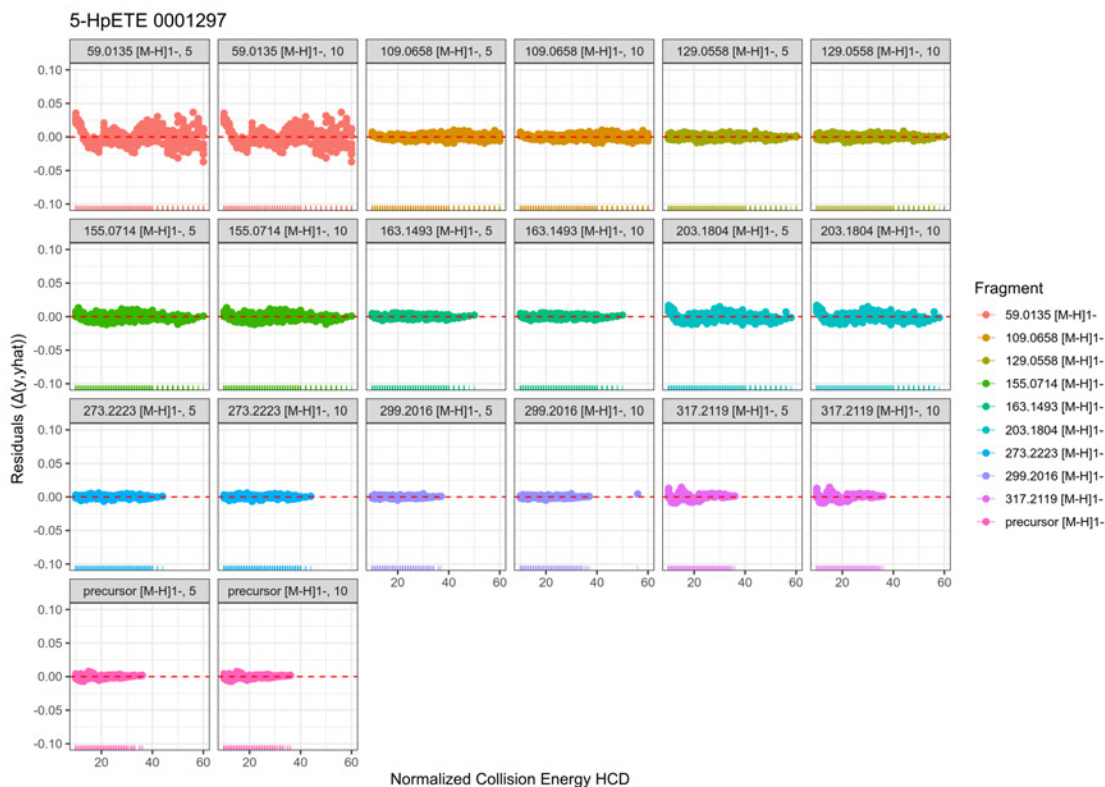


Figure 127. Residuals of nonlinear fit

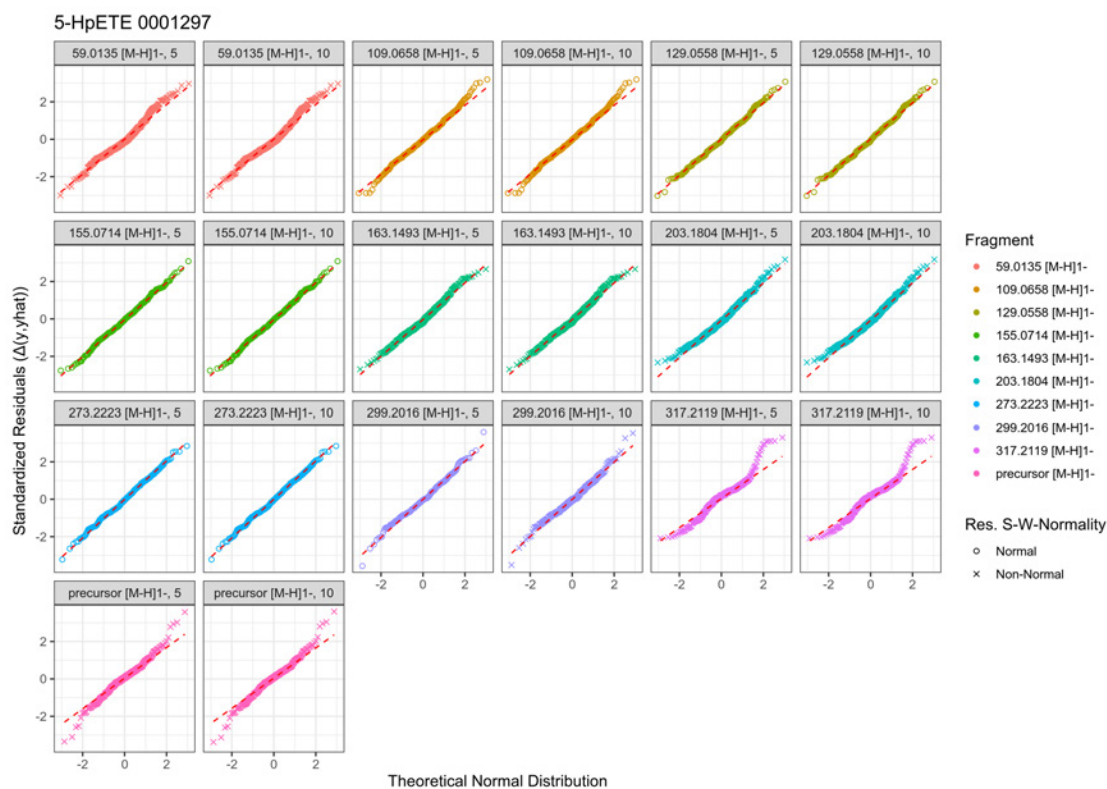


Figure 128. Quantile-quantile plot of residuals

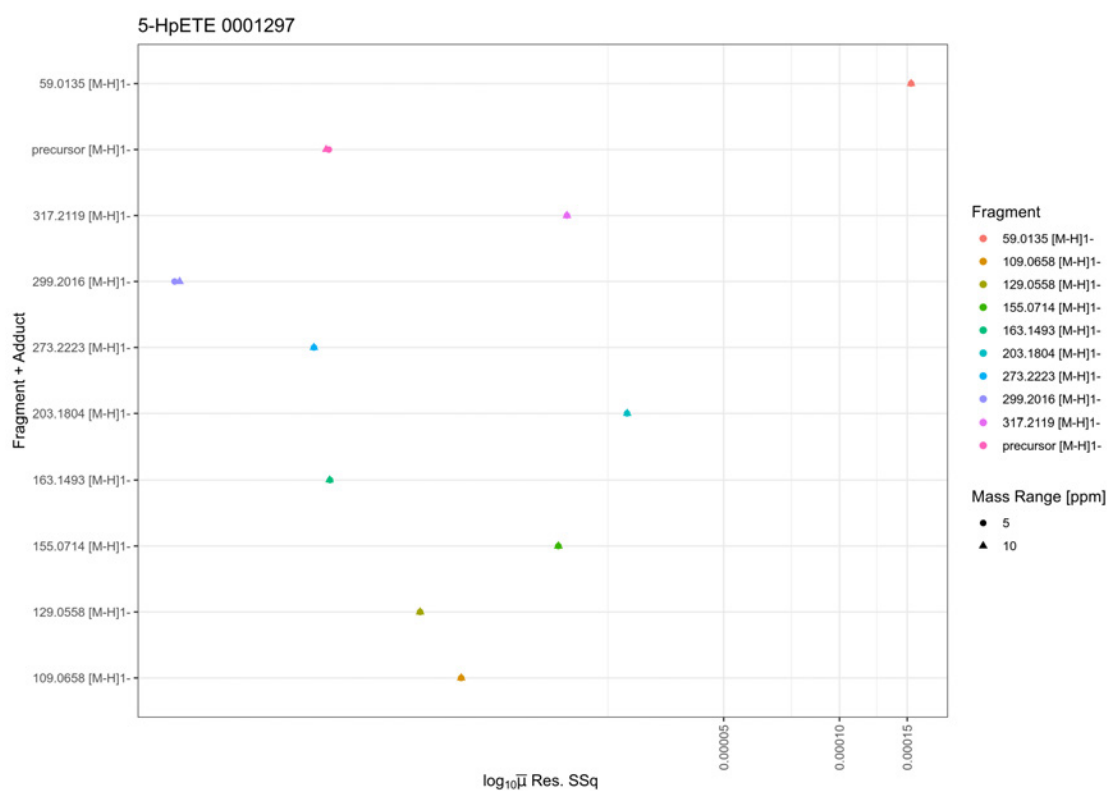


Figure 129. Normalized sum-of-squares of the residuals

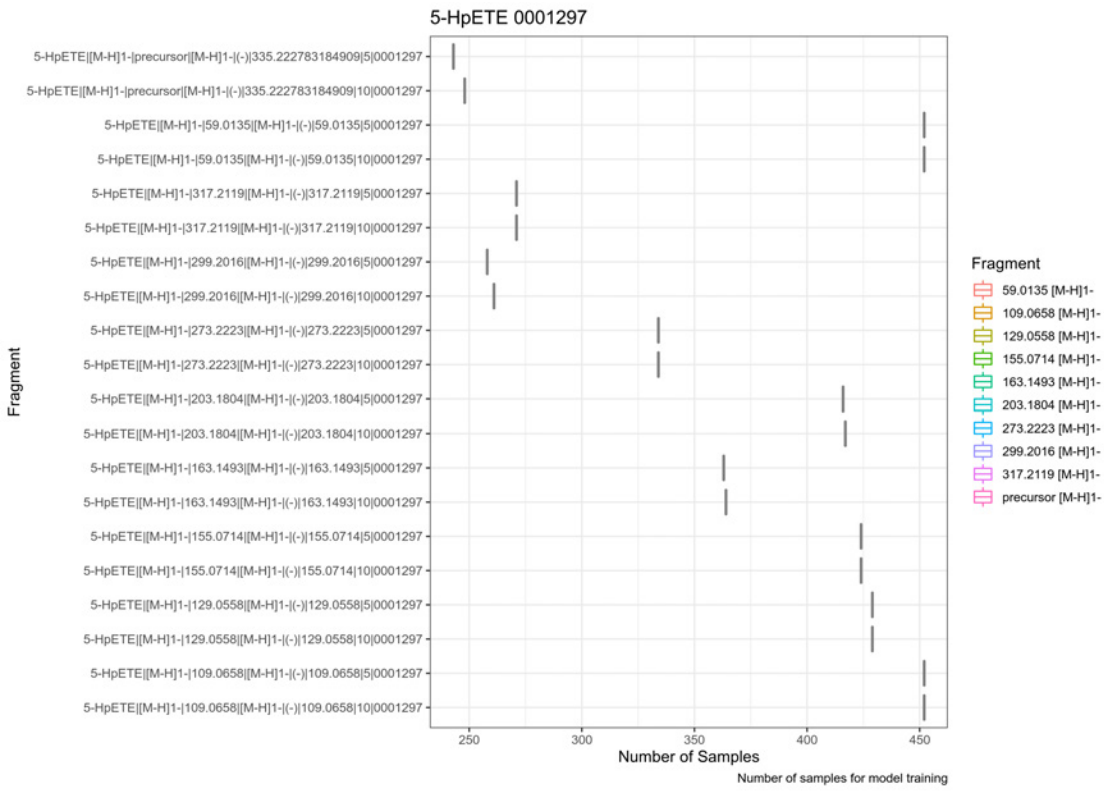


Figure 130. Number of samples used for training per combination Id

# 1.27. 5-OxoETE{d7} [M-H]1- 0000147

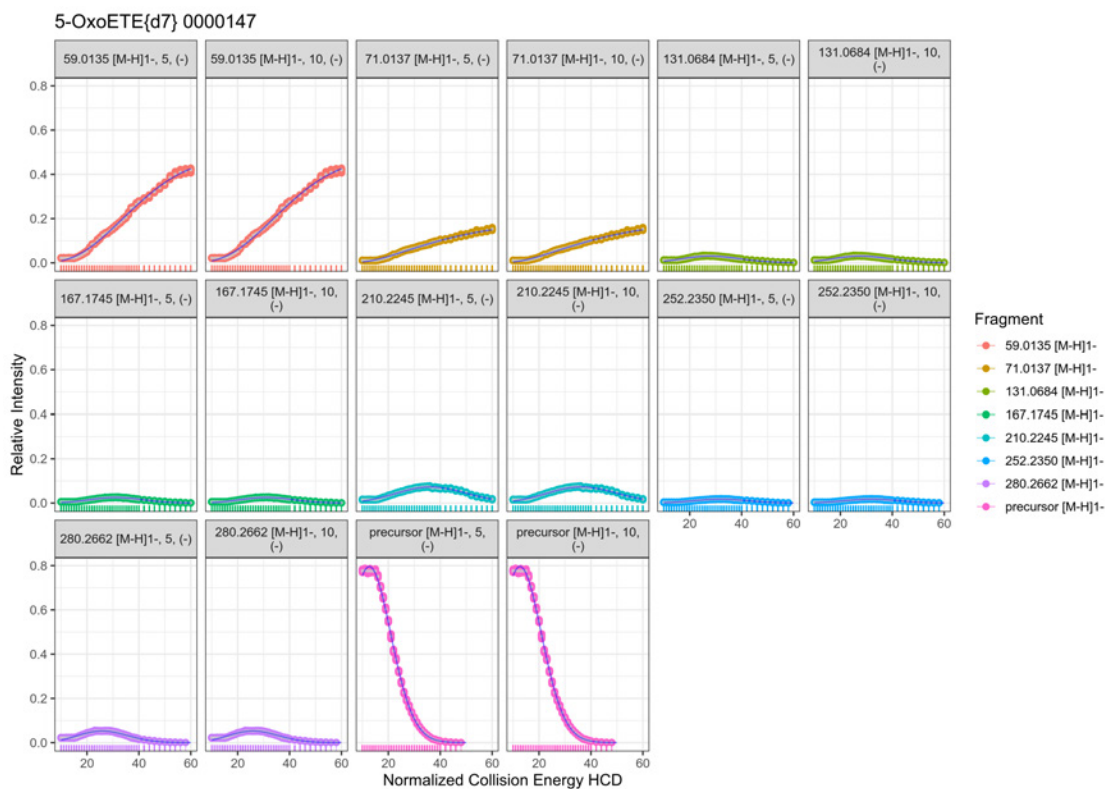


Figure 131. Nonlinear fit

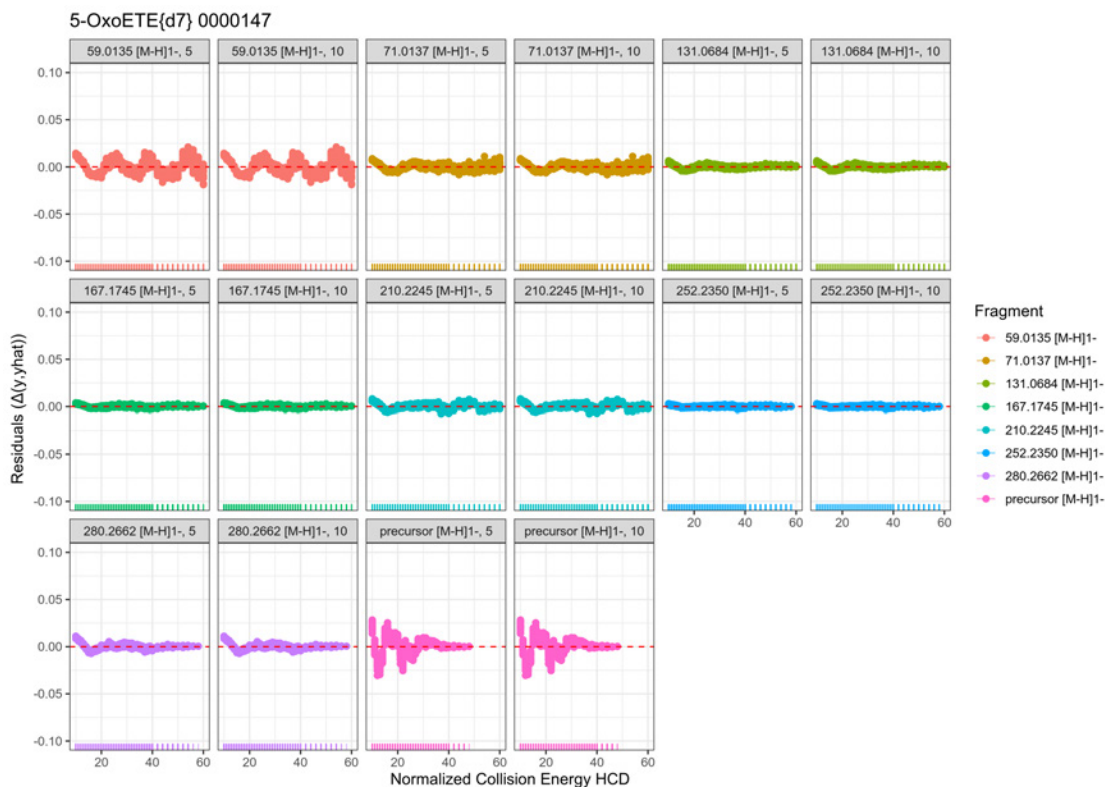


Figure 132. Residuals of nonlinear fit

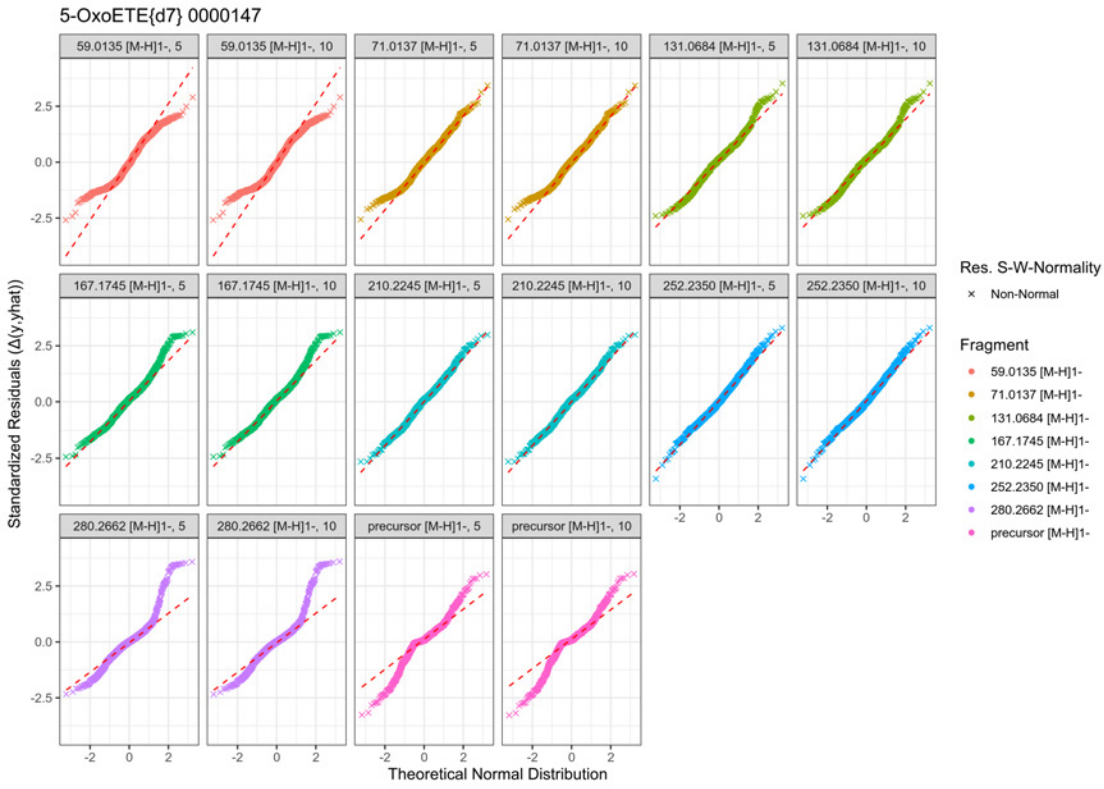


Figure 133. Quantile-quantile plot of residuals

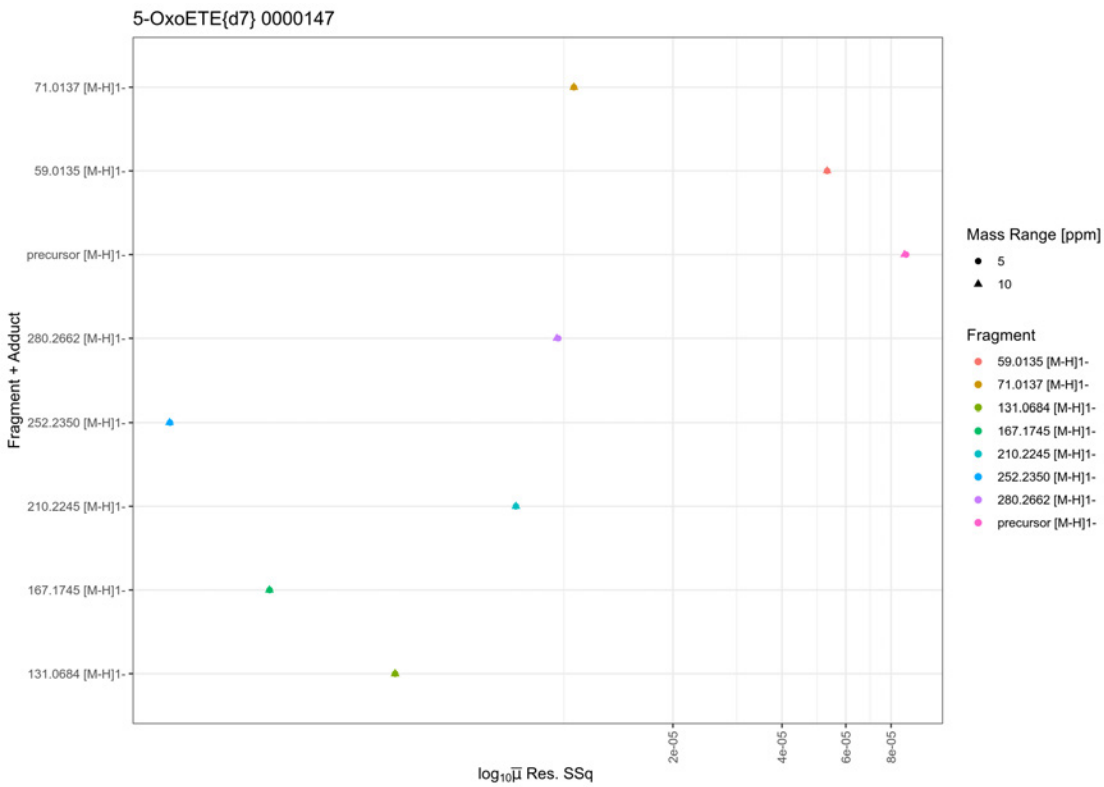


Figure 134. Normalized sum-of-squares of the residuals



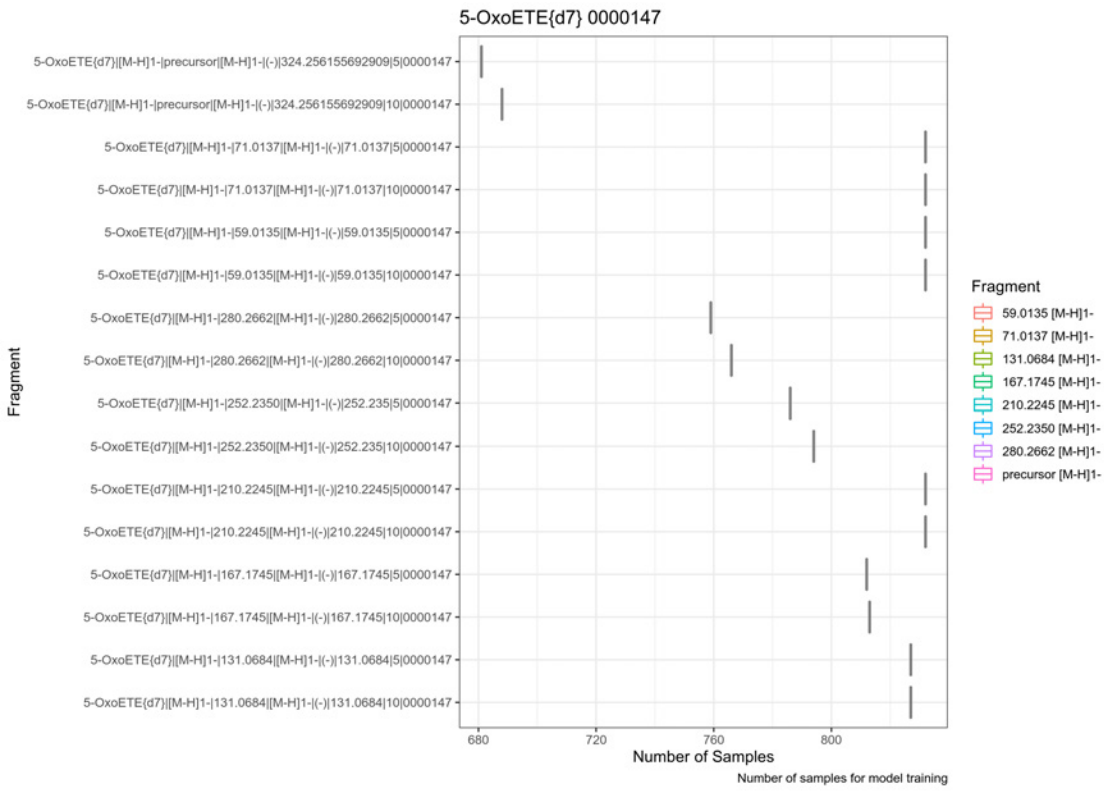


Figure 135. Number of samples used for training per combination Id

# 1.28. 8(9)-EET{d11} [M-H]1- 0001309

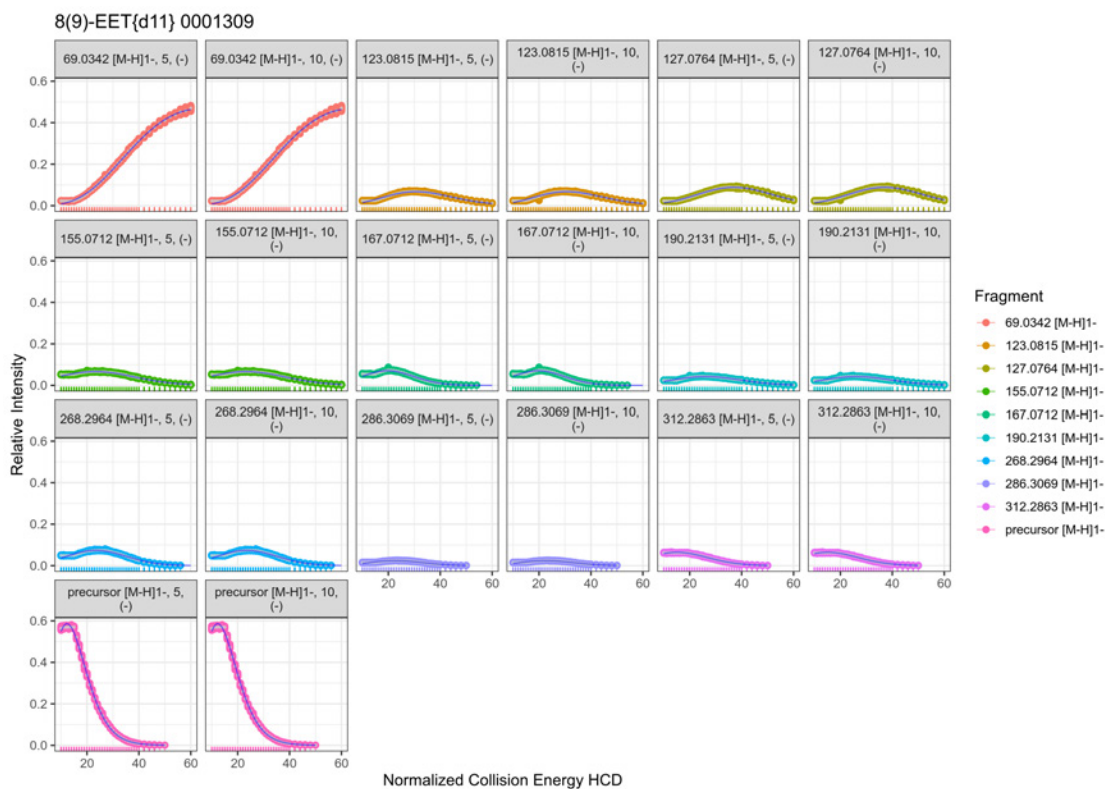


Figure 136. Nonlinear fit

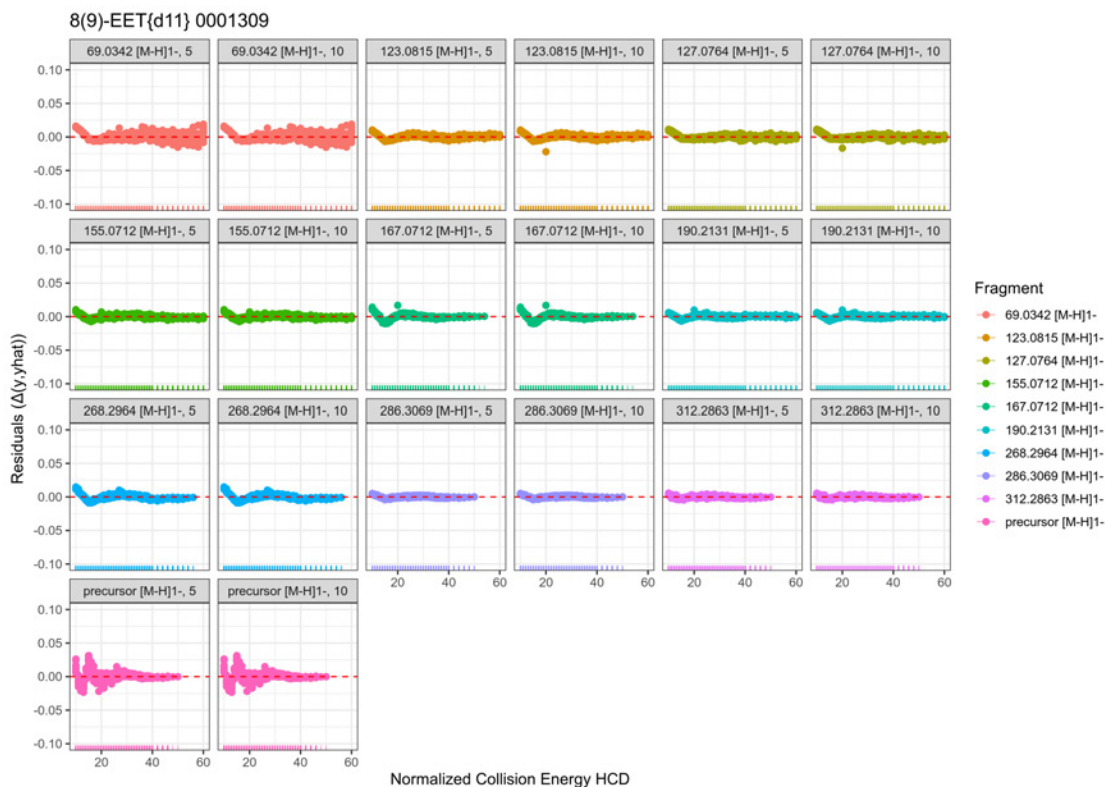


Figure 137. Residuals of nonlinear fit

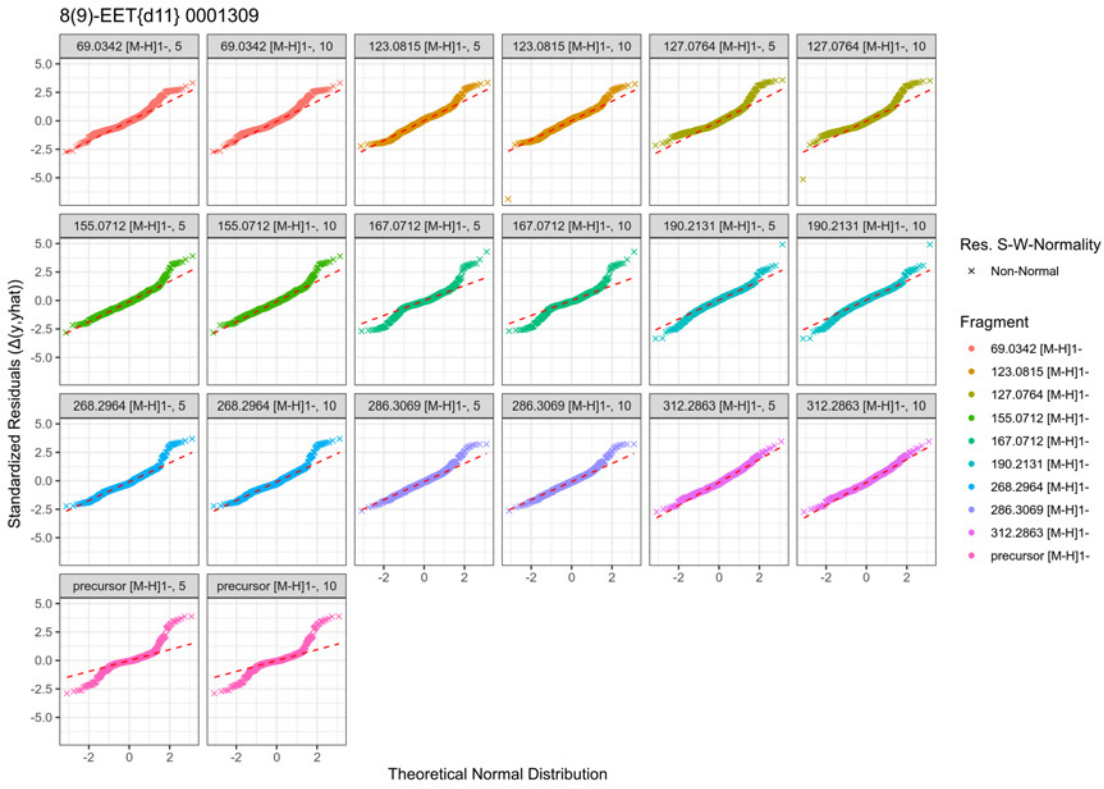


Figure 138. Quantile-quantile plot of residuals

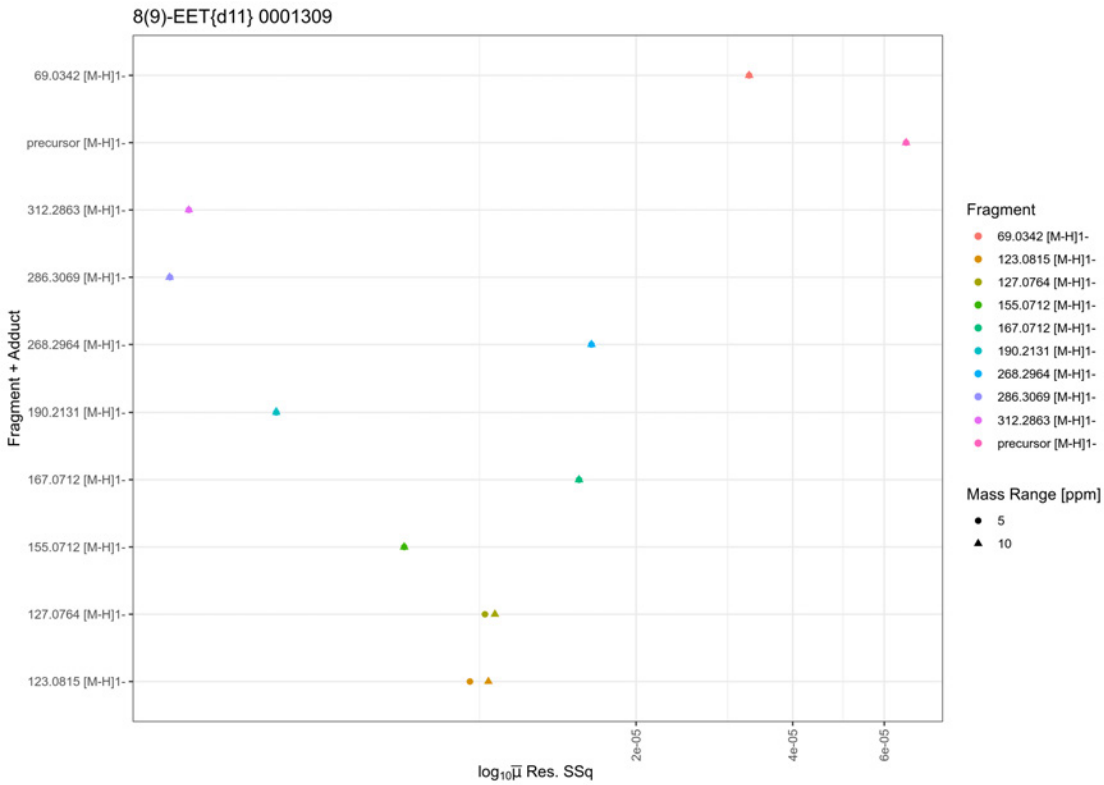


Figure 139. Normalized sum-of-squares of the residuals

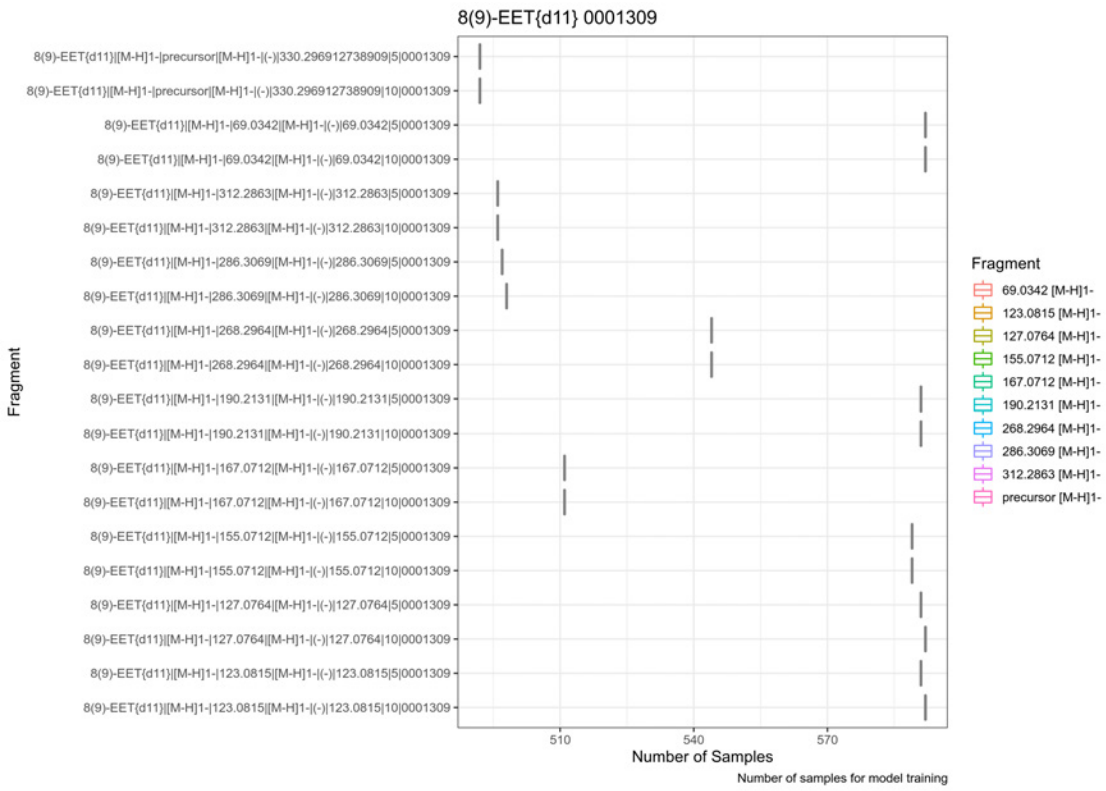


Figure 140. Number of samples used for training per combination Id

# 1.29. 8,9-DHET{d11} [M-H]1- 0000159

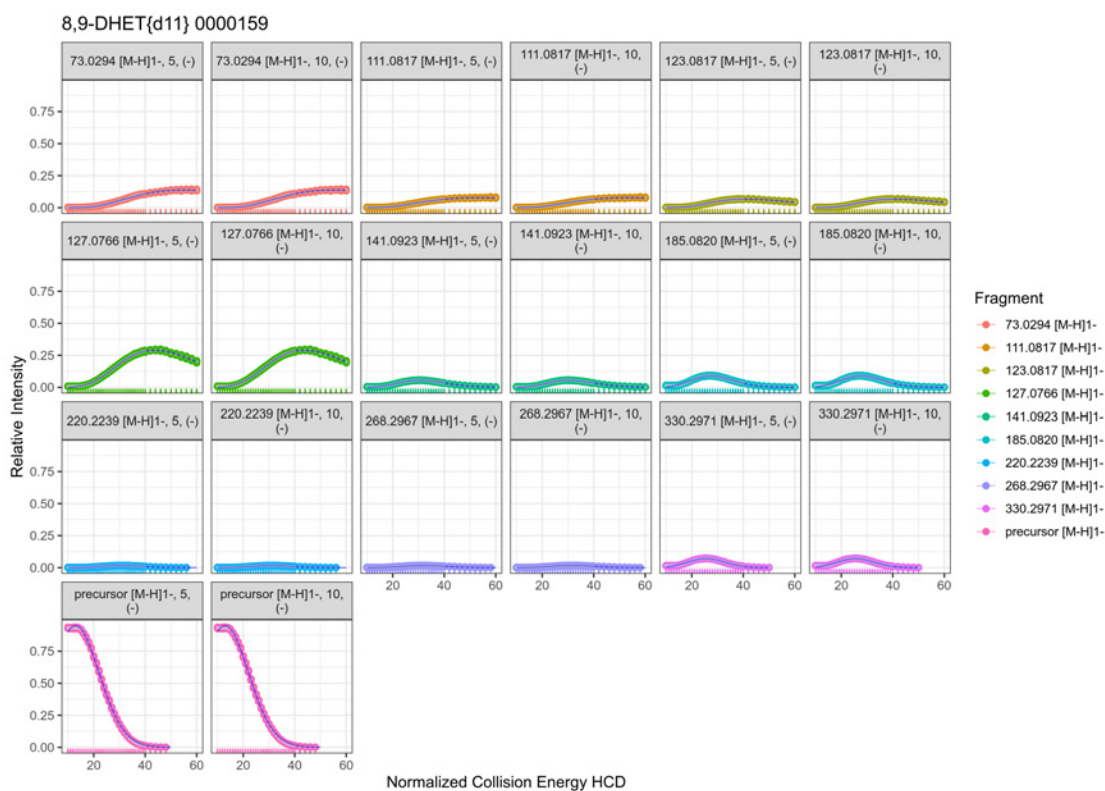


Figure 141. Nonlinear fit

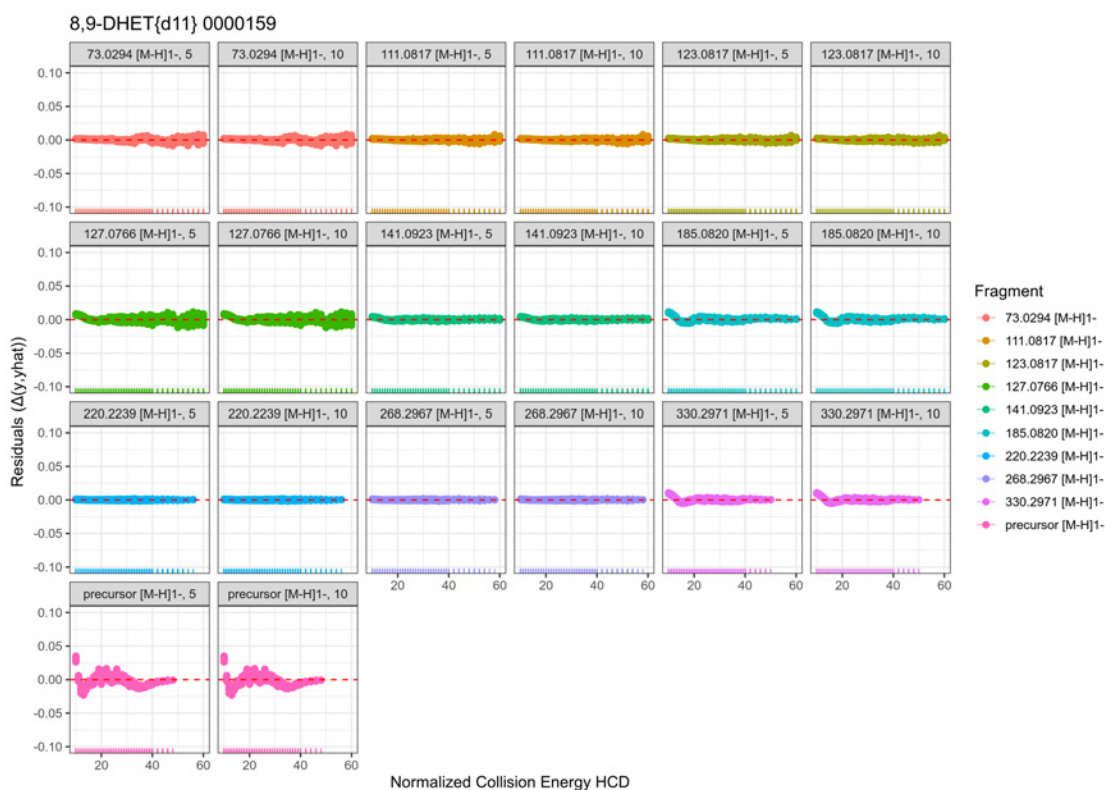


Figure 142. Residuals of nonlinear fit

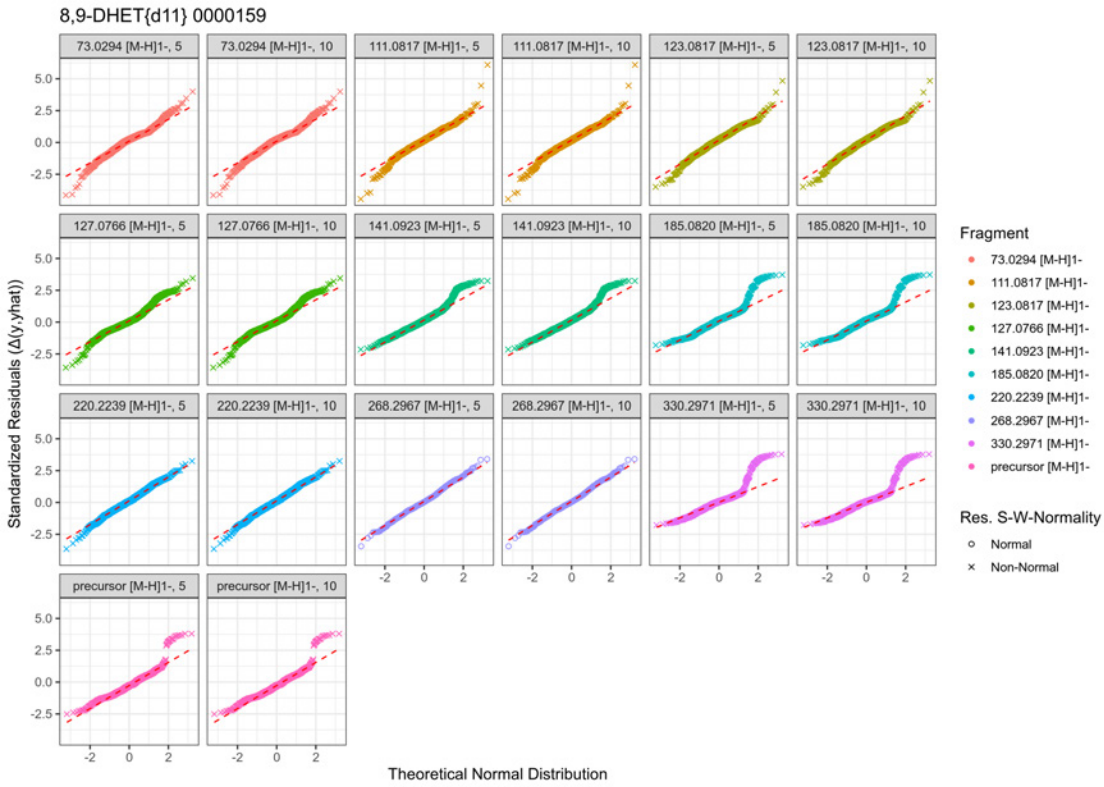


Figure 143. Quantile-quantile plot of residuals

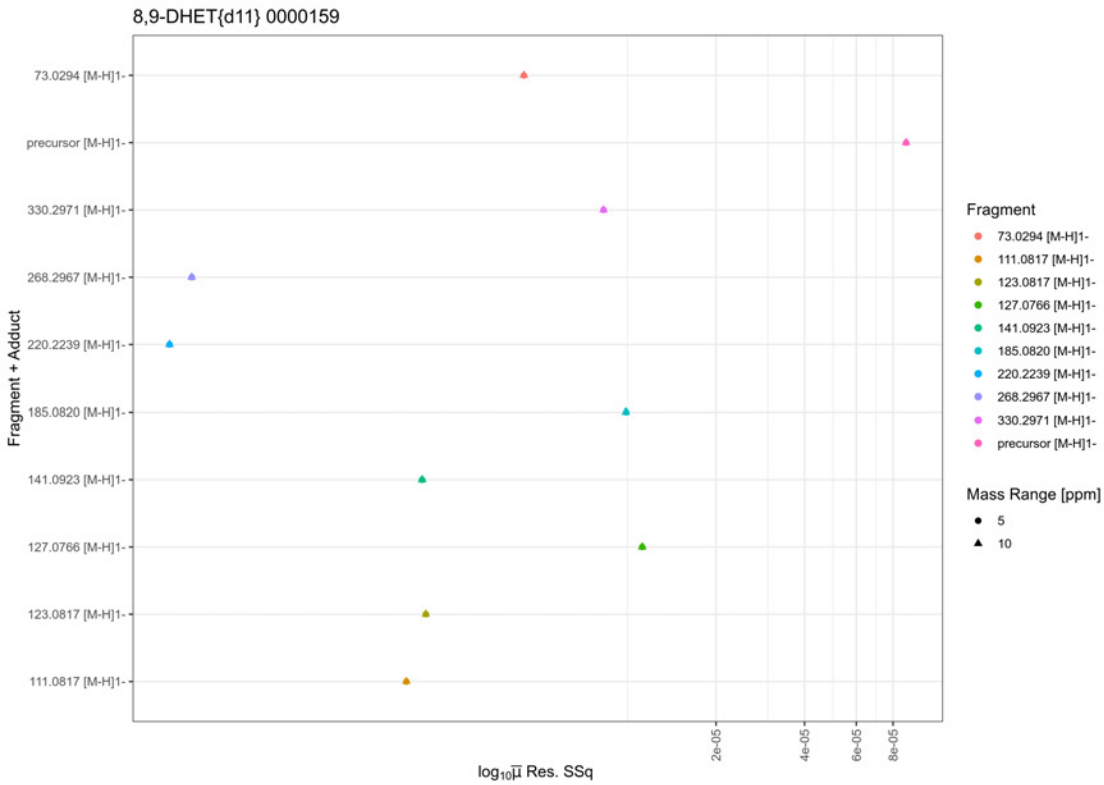


Figure 144. Normalized sum-of-squares of the residuals



8,9-DHET(d11) 0000159

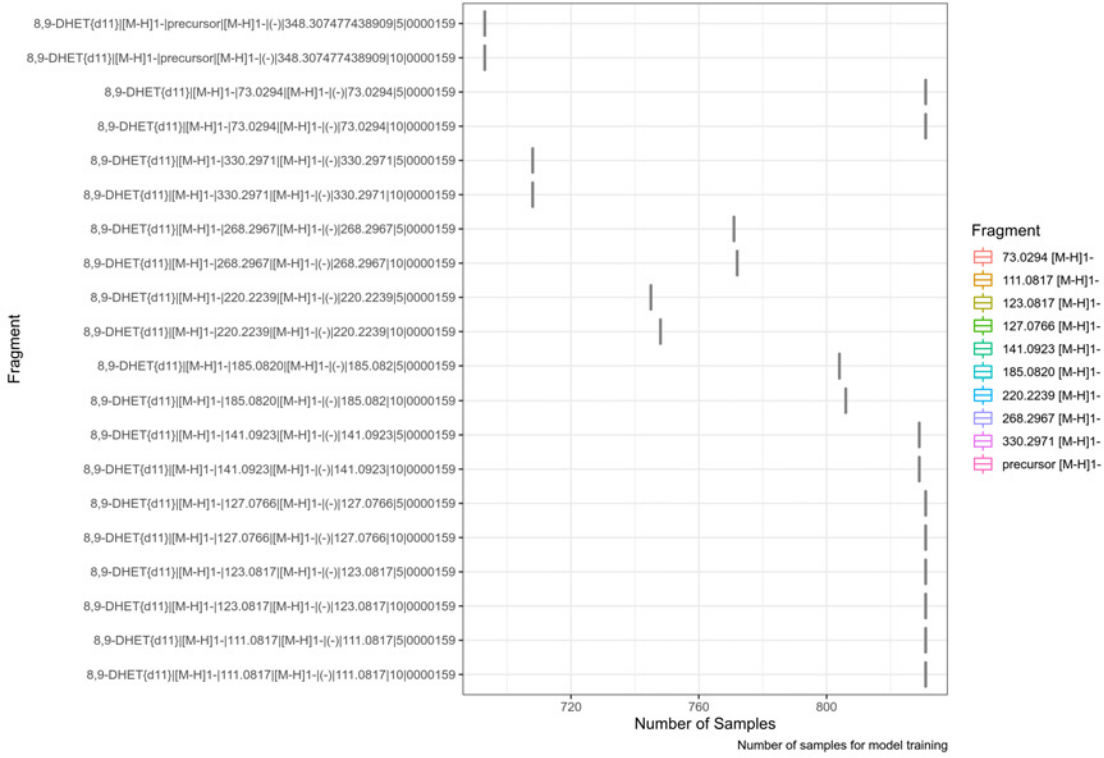


Figure 145. Number of samples used for training per combination Id

# 1.30. 8-HDoHE [M-H]1- 0001273

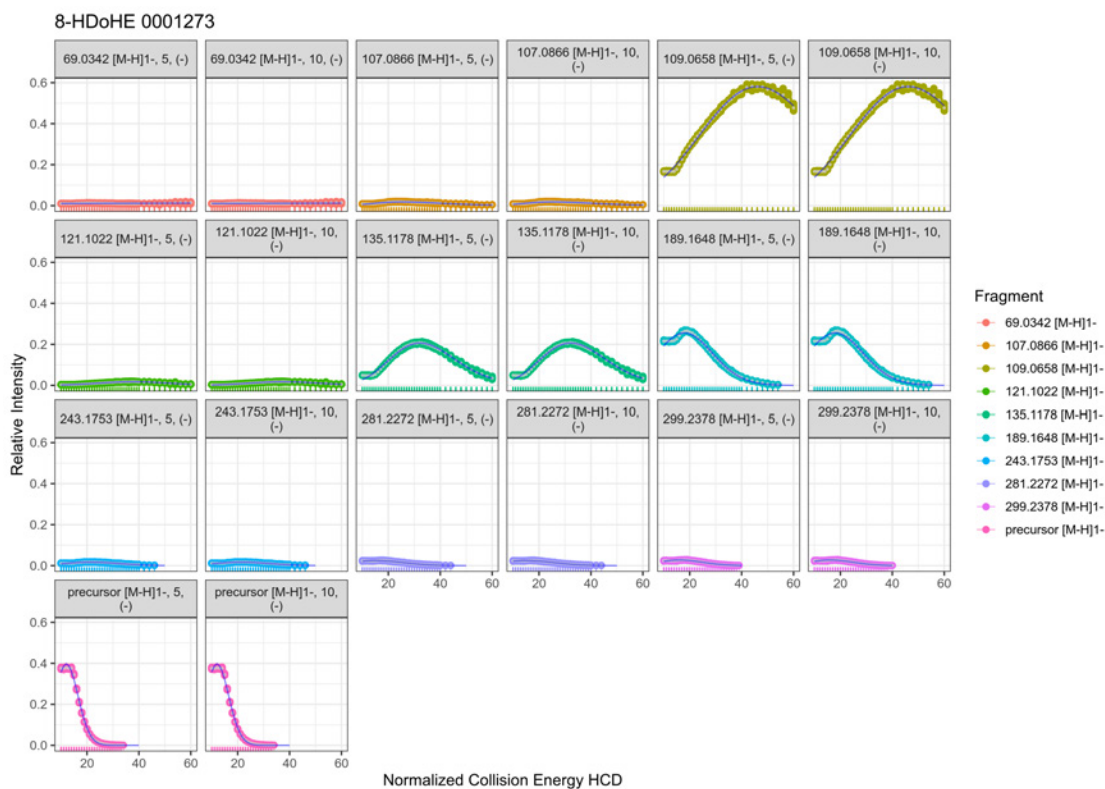


Figure 146. Nonlinear fit

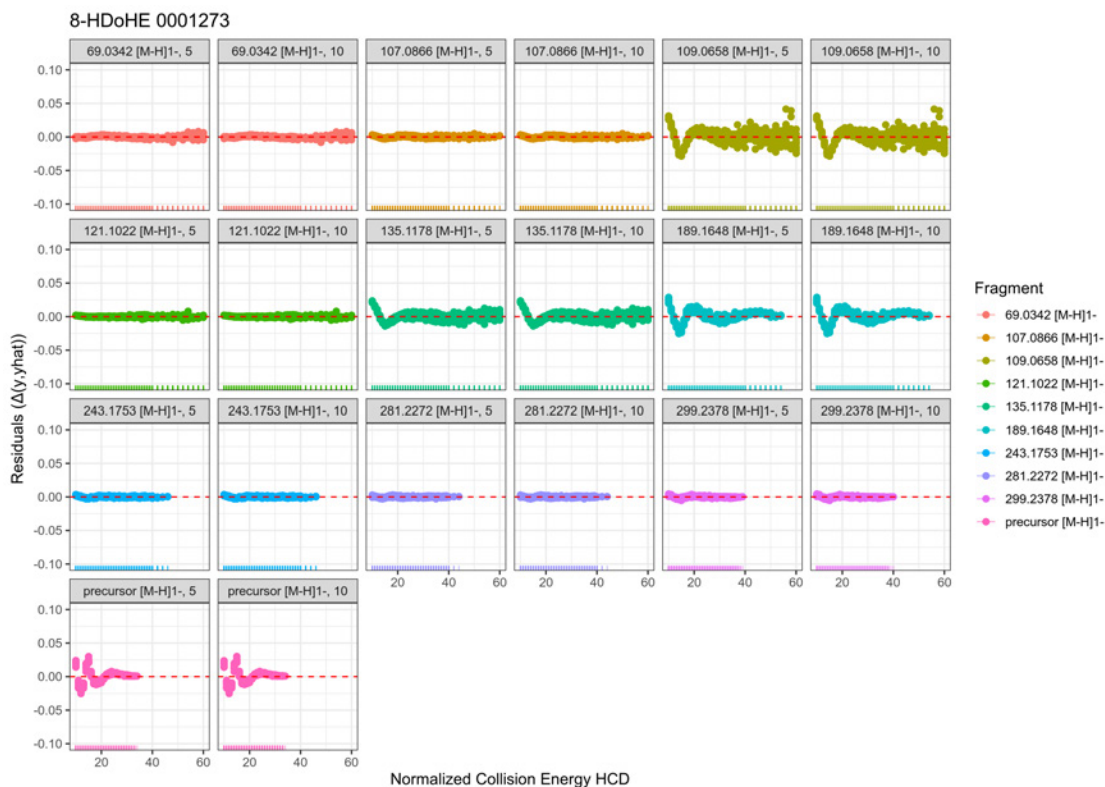


Figure 147. Residuals of nonlinear fit

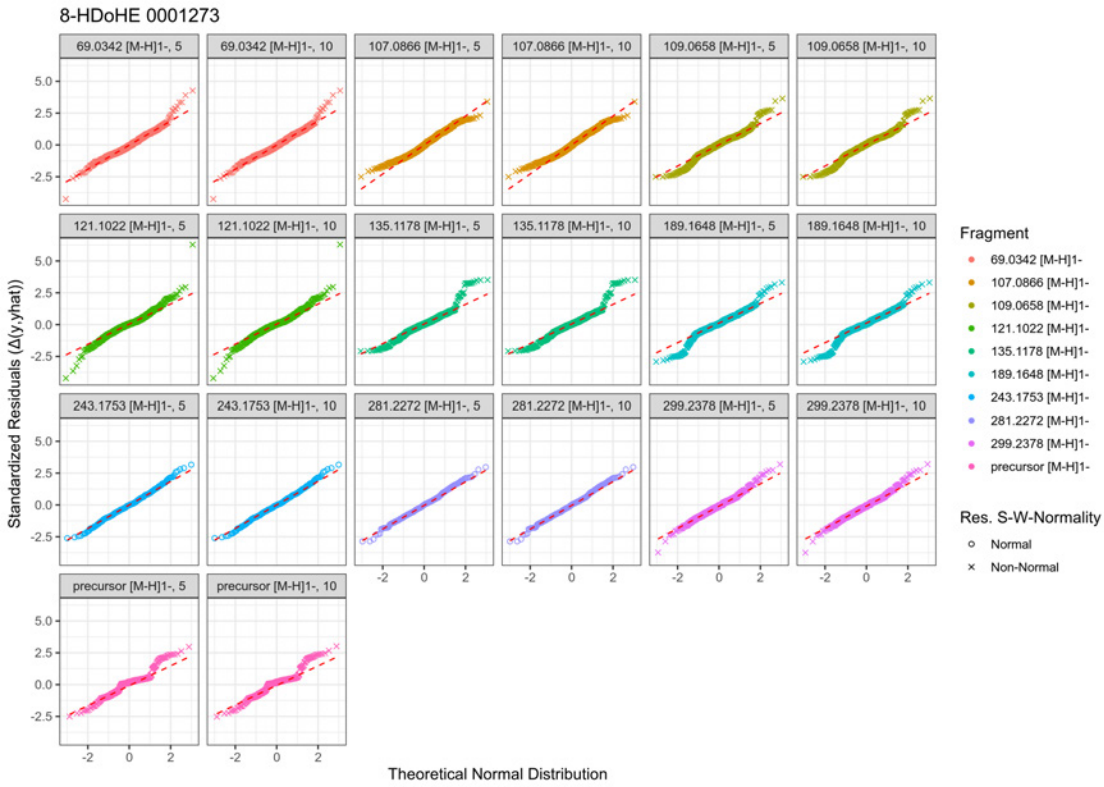


Figure 148. Quantile-quantile plot of residuals

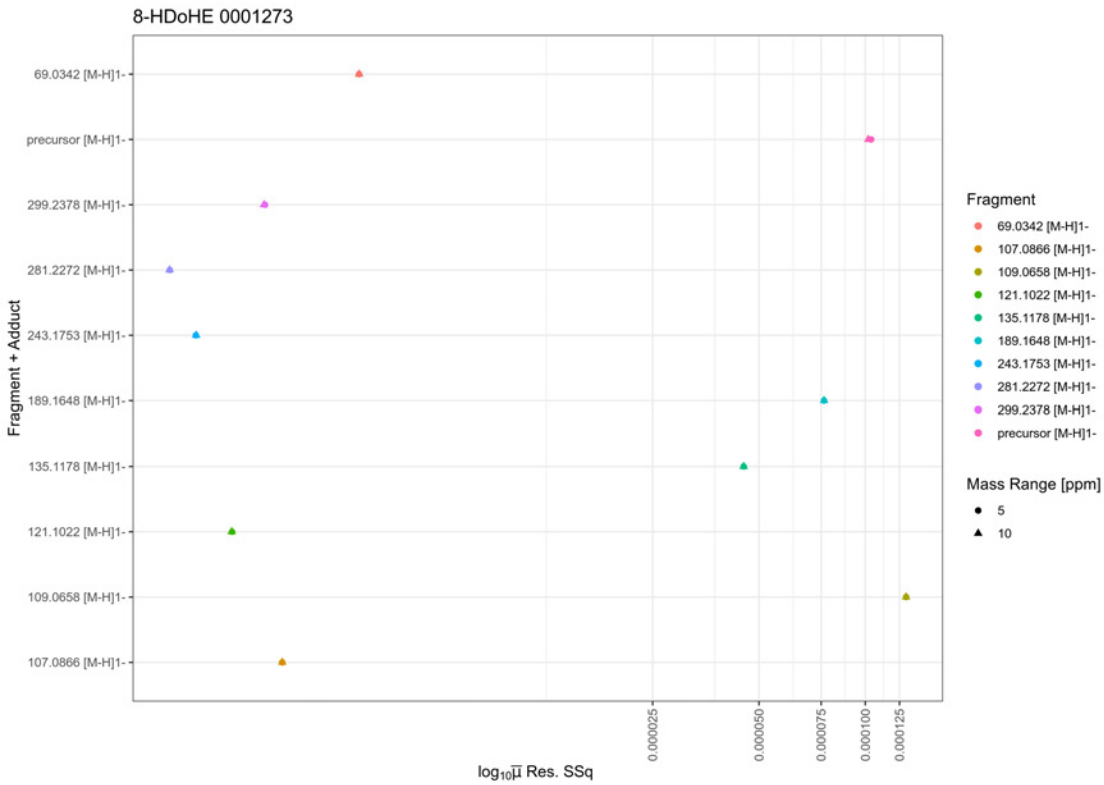


Figure 149. Normalized sum-of-squares of the residuals

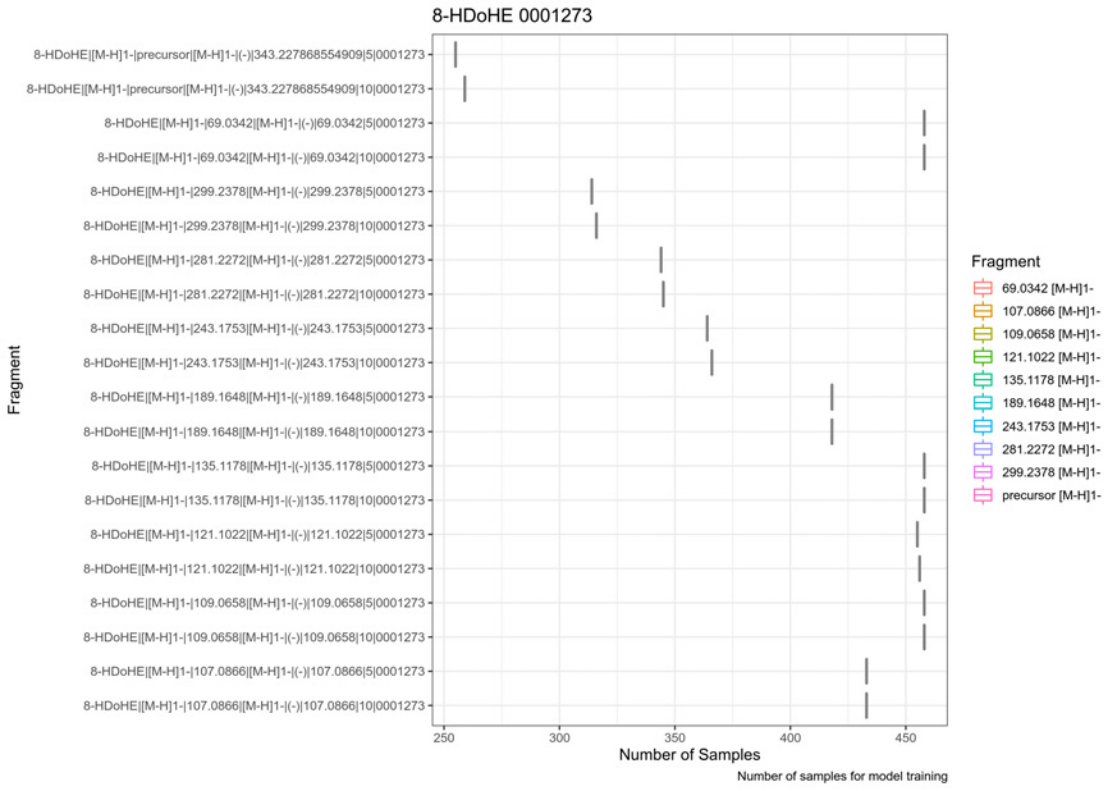


Figure 150. Number of samples used for training per combination Id

# 1.31. 8-HETE [M-H]1- 0001287

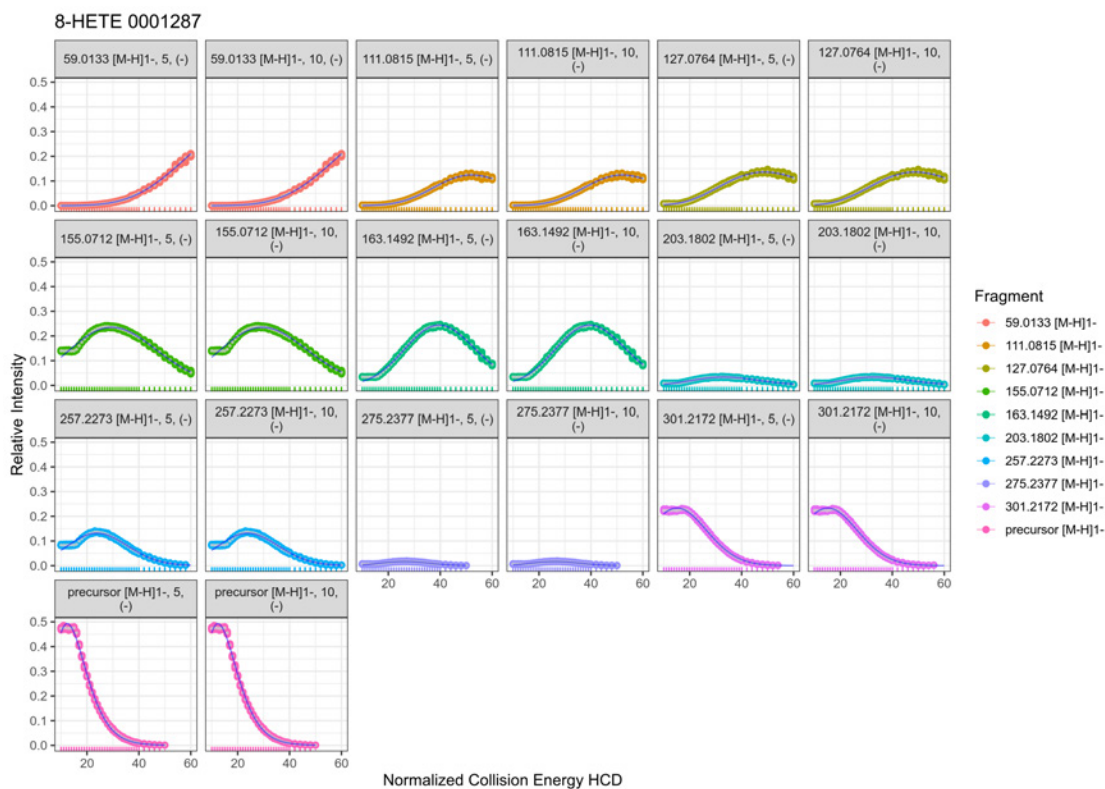


Figure 151. Nonlinear fit

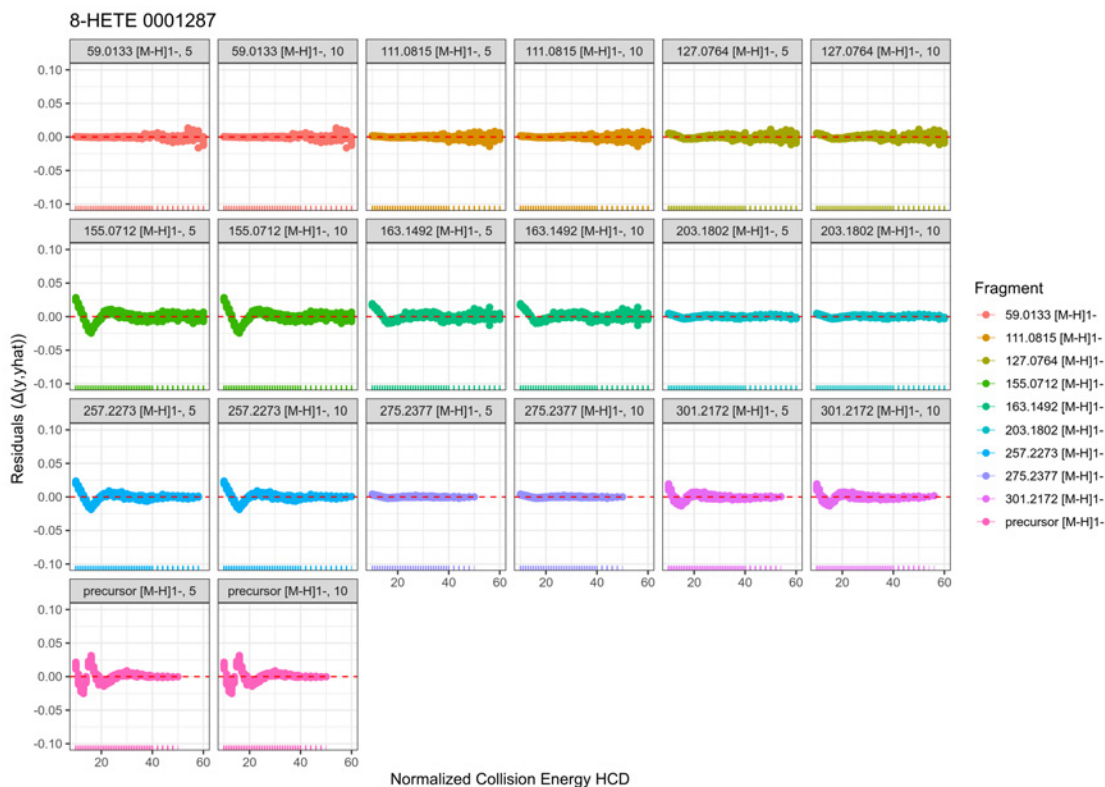


Figure 152. Residuals of nonlinear fit

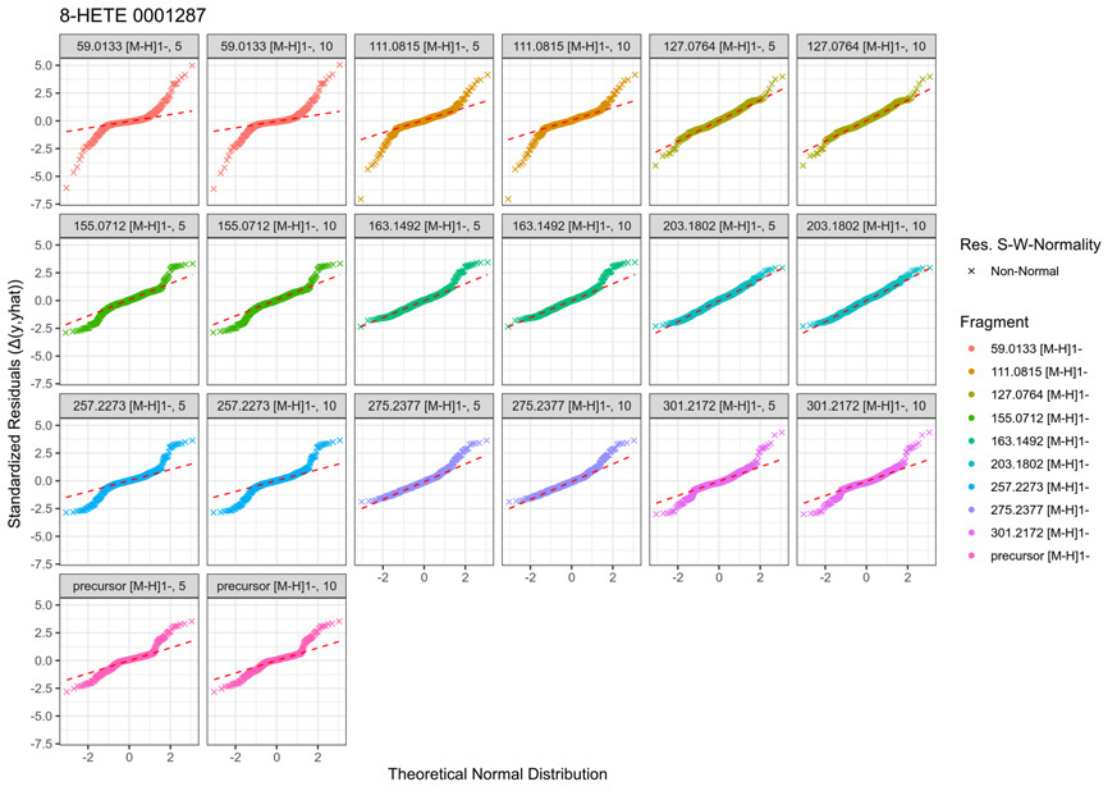


Figure 153. Quantile-quantile plot of residuals

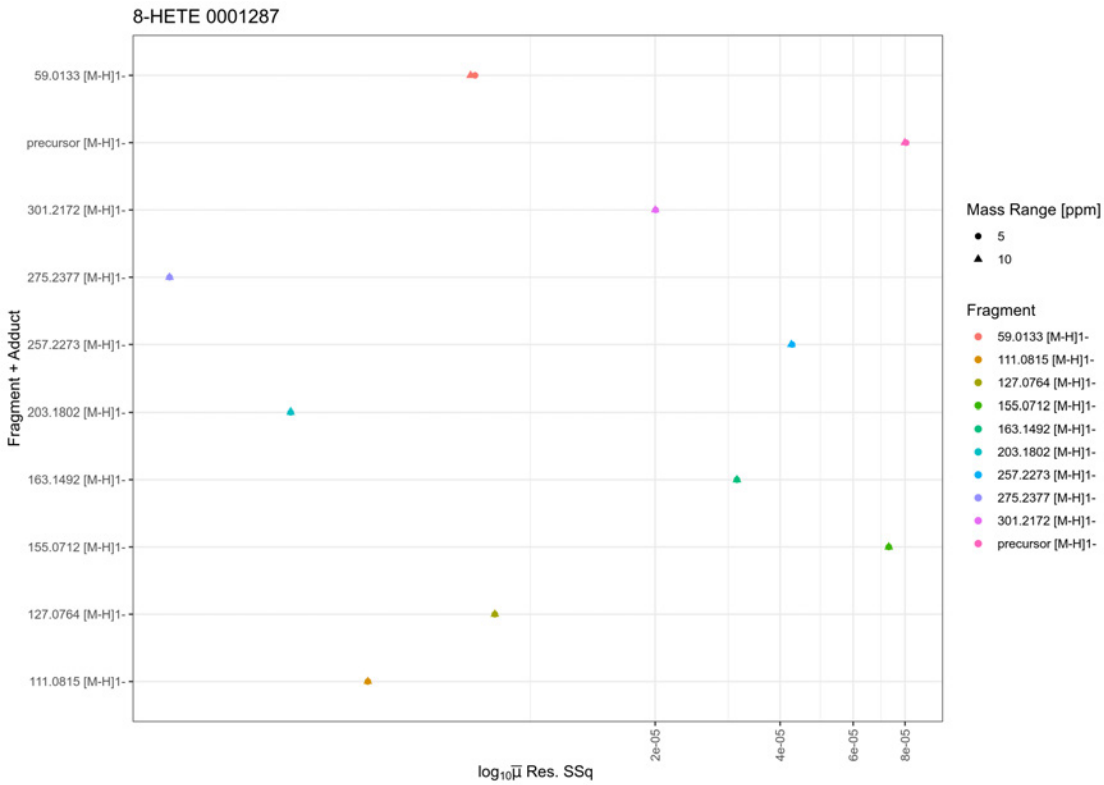


Figure 154. Normalized sum-of-squares of the residuals



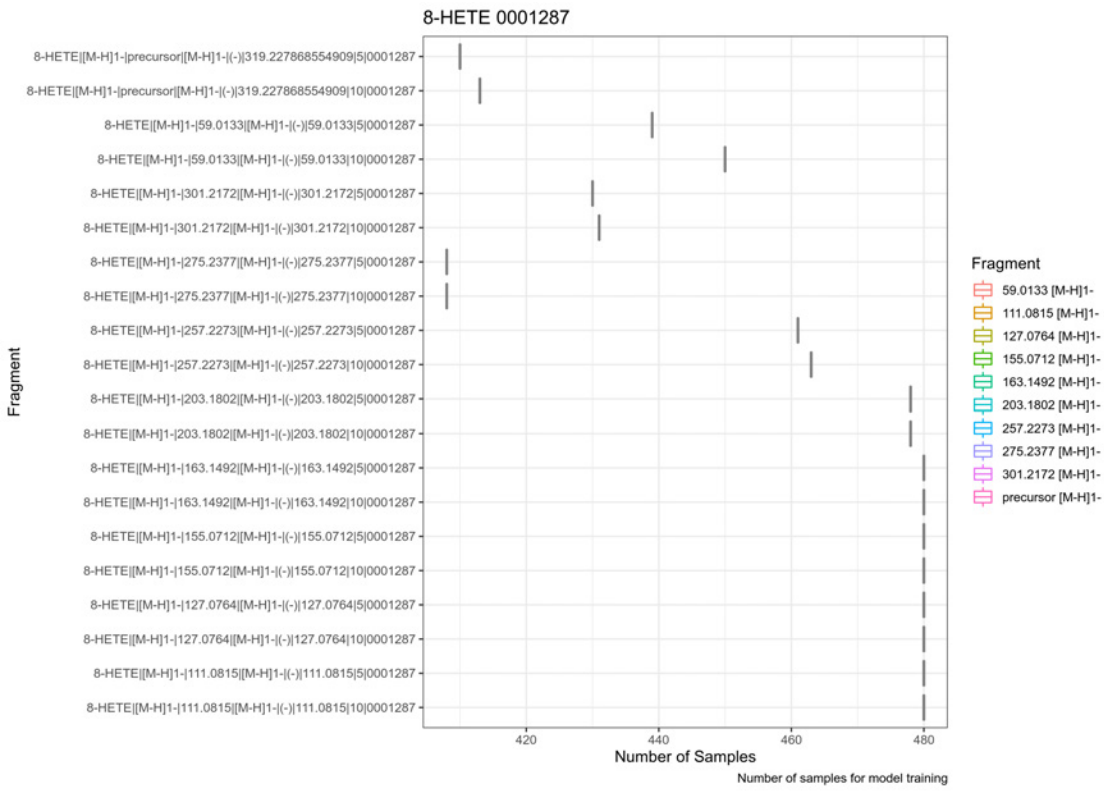


Figure 155. Number of samples used for training per combination Id

# 1.32. 9(10)-EpOME{d4} [M-H]1- 0001355

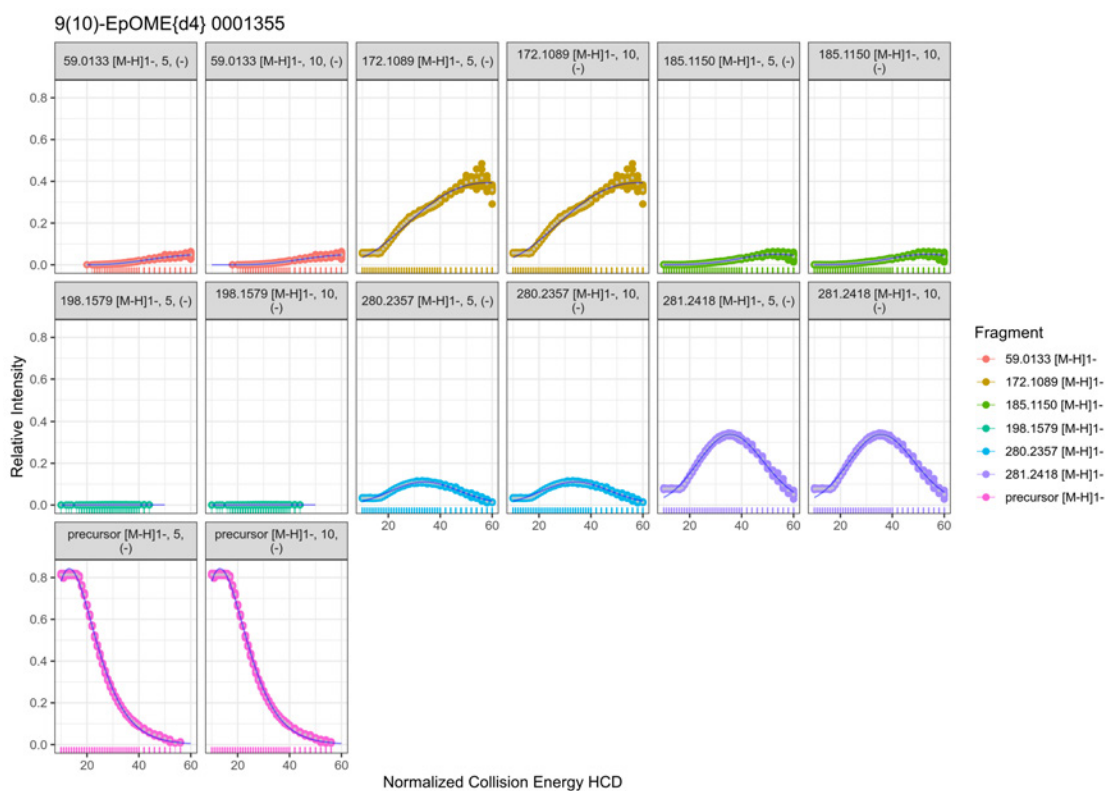


Figure 156. Nonlinear fit

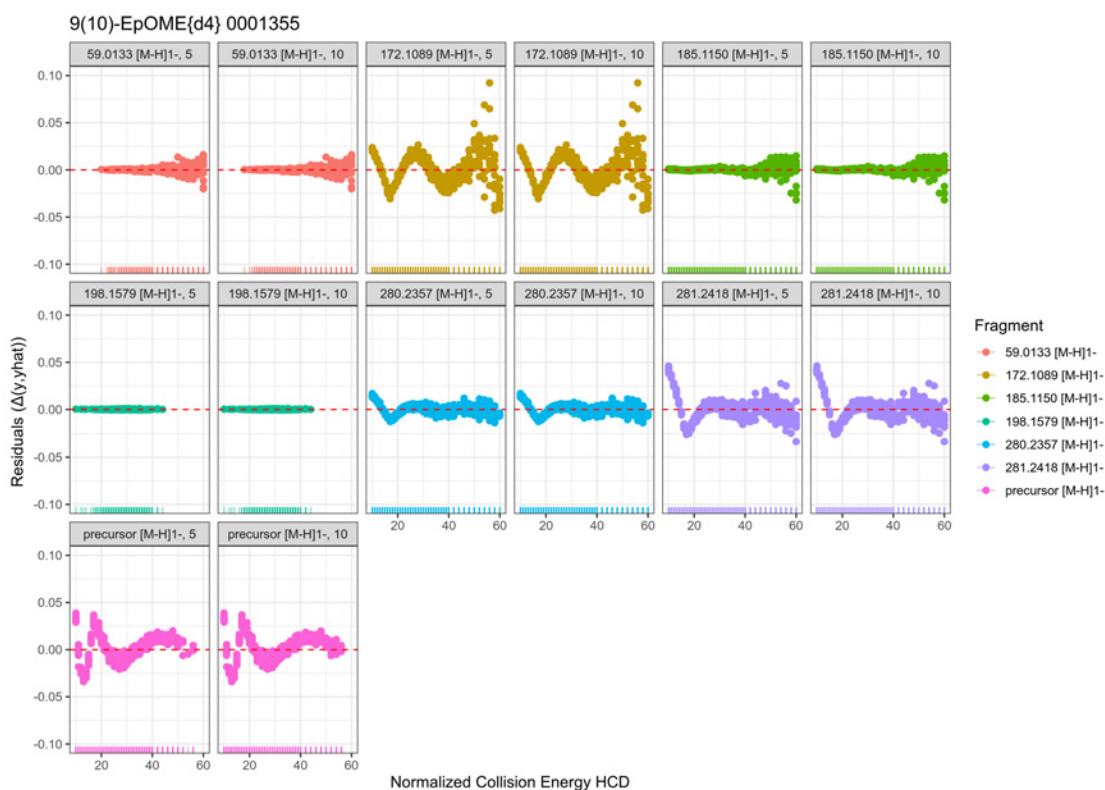


Figure 157. Residuals of nonlinear fit

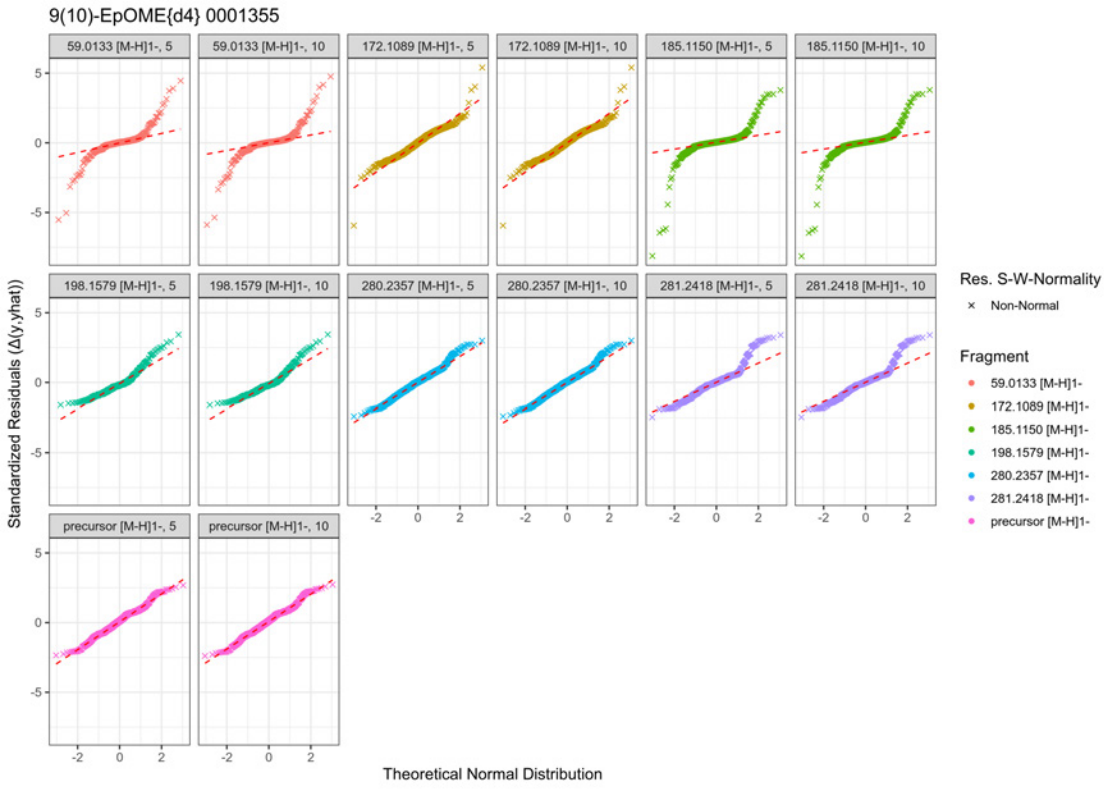


Figure 158. Quantile-quantile plot of residuals

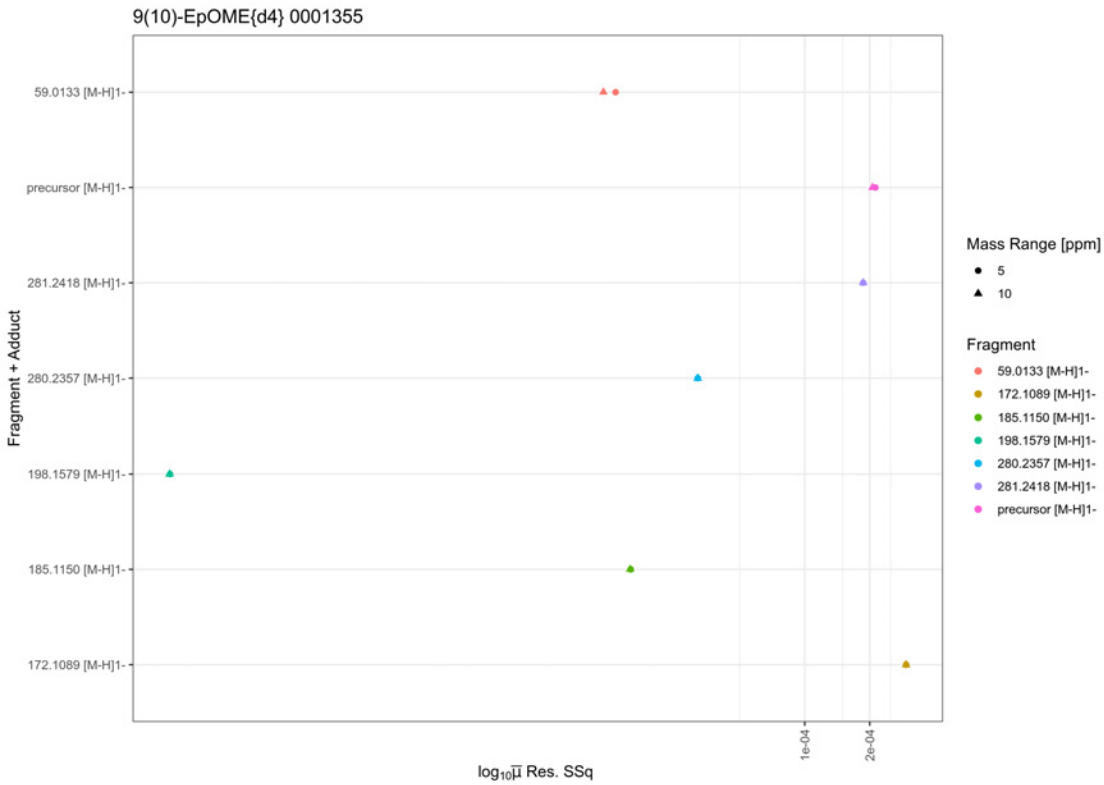


Figure 159. Normalized sum-of-squares of the residuals

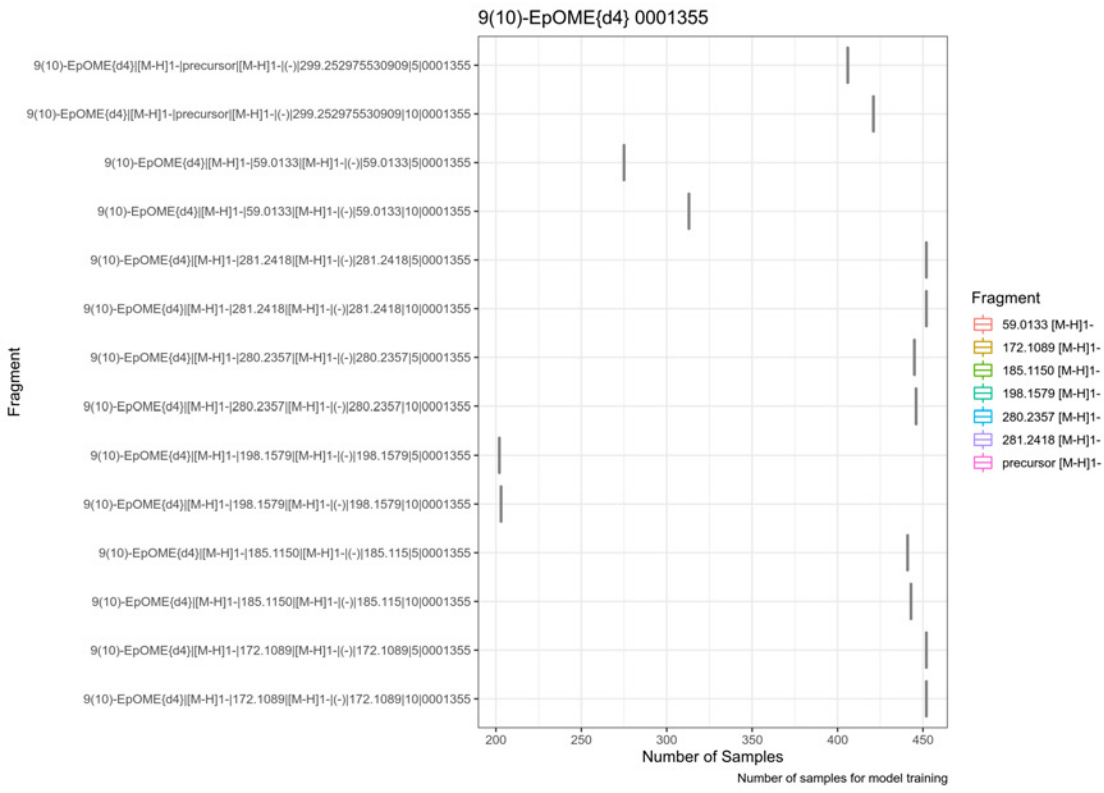


Figure 160. Number of samples used for training per combination Id

# 1.33. 9-HEPE [M-H]1- 0001279

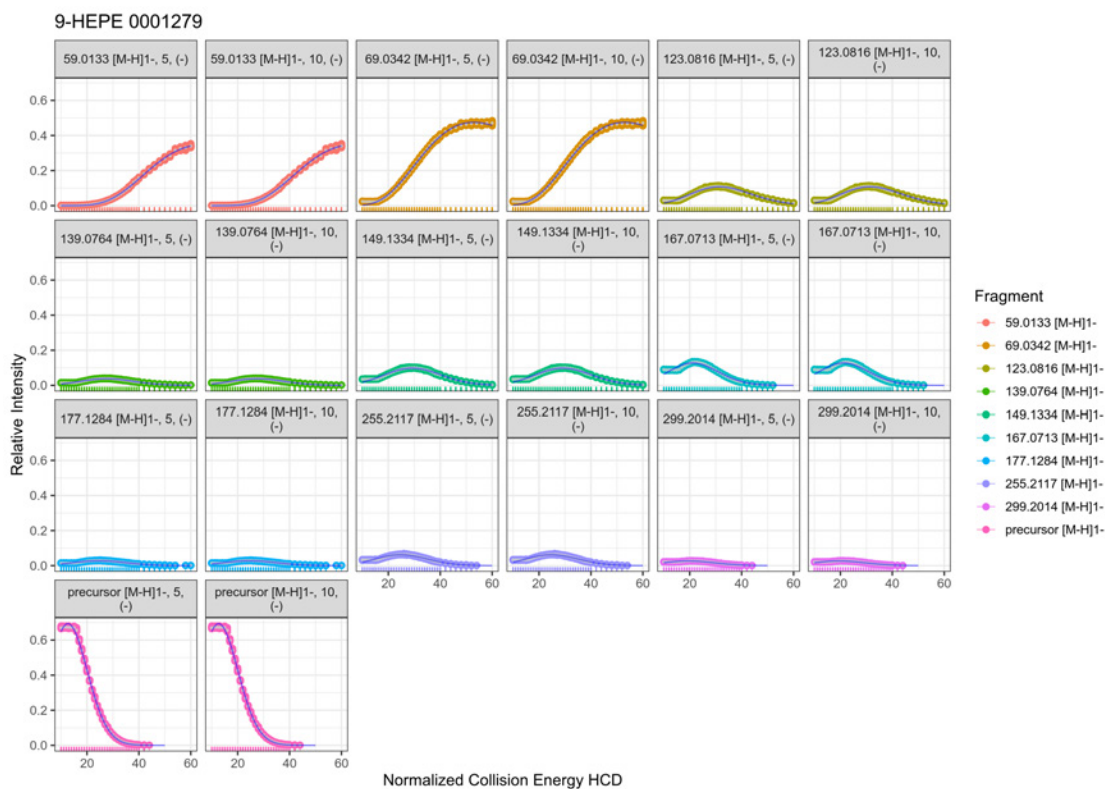


Figure 161. Nonlinear fit

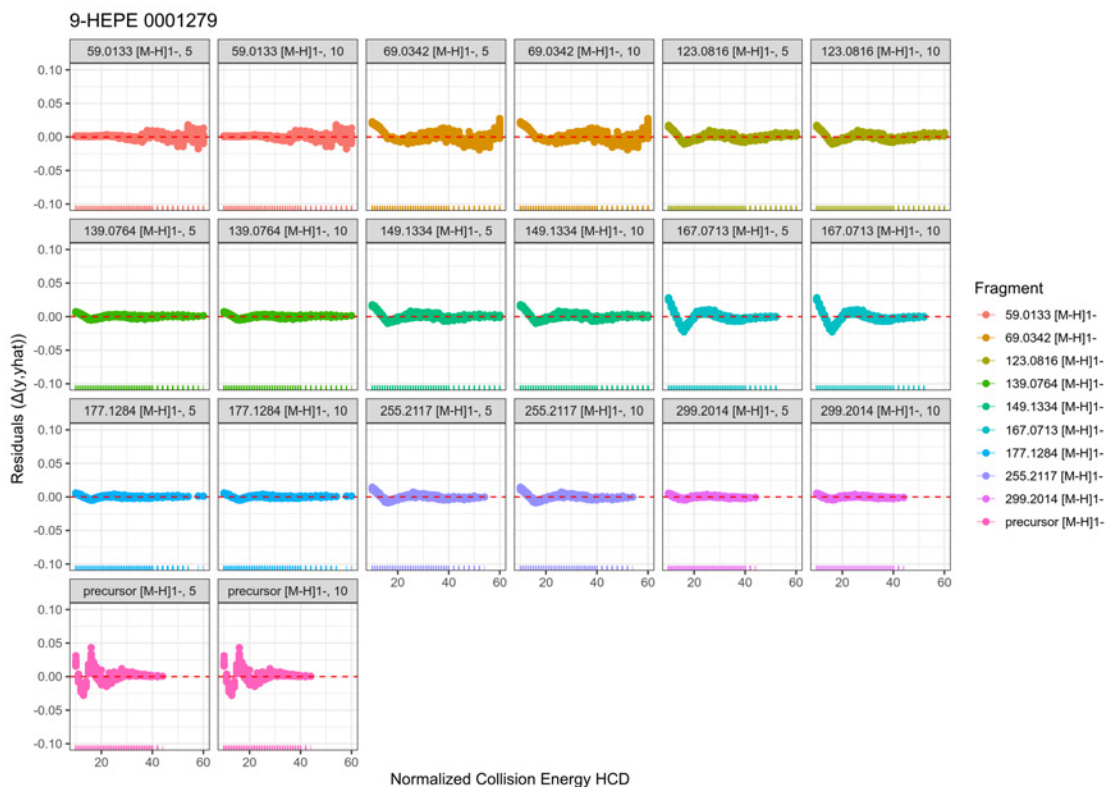


Figure 162. Residuals of nonlinear fit

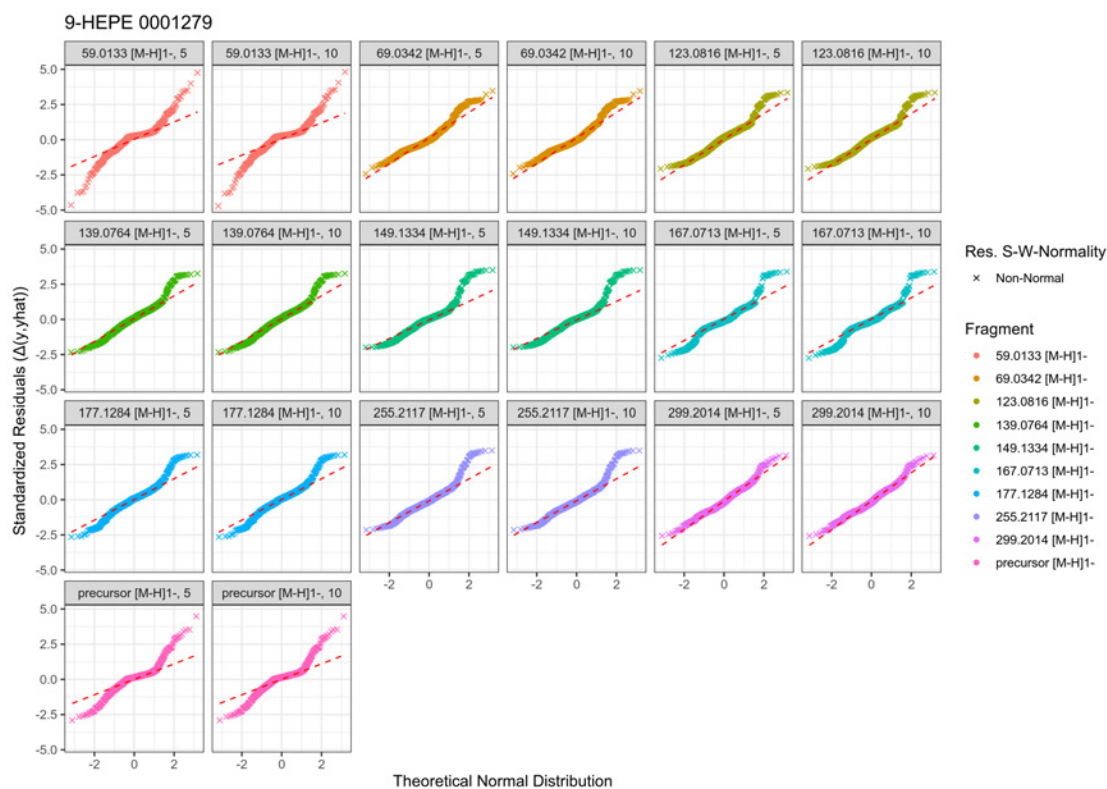


Figure 163. Quantile-quantile plot of residuals

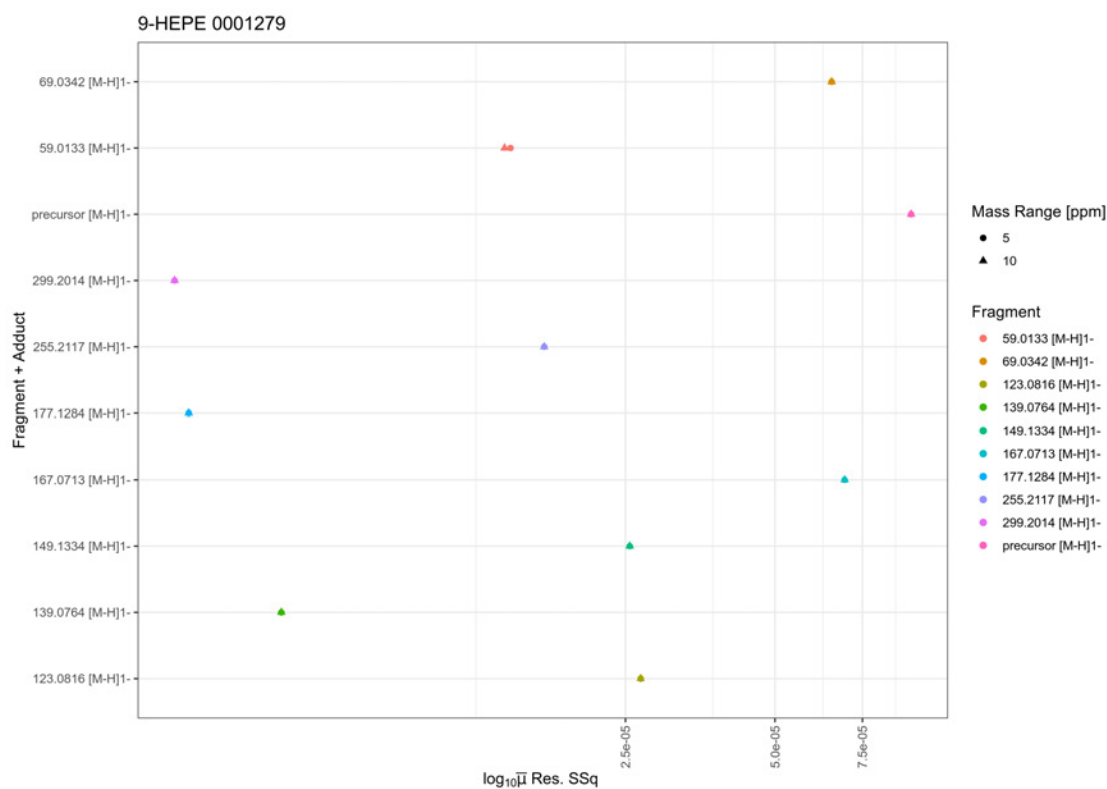


Figure 164. Normalized sum-of-squares of the residuals



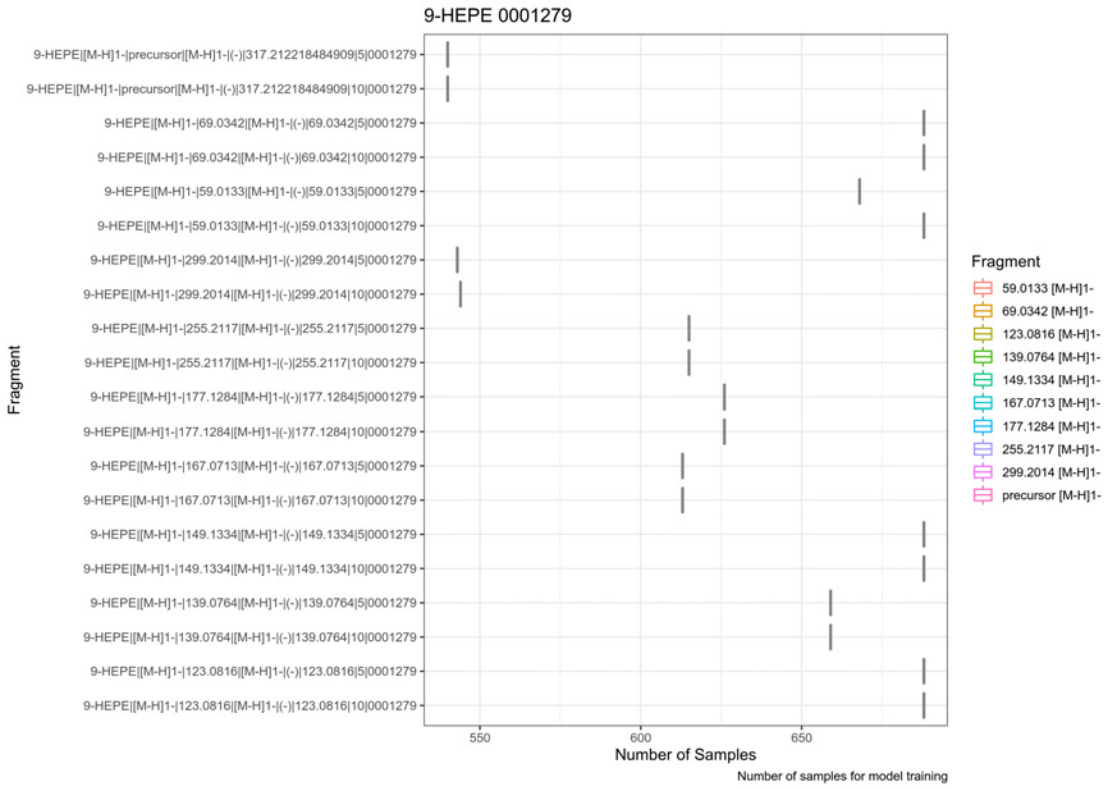


Figure 165. Number of samples used for training per combination Id

# 1.34. 9-HETE [M-H]1- 0001291

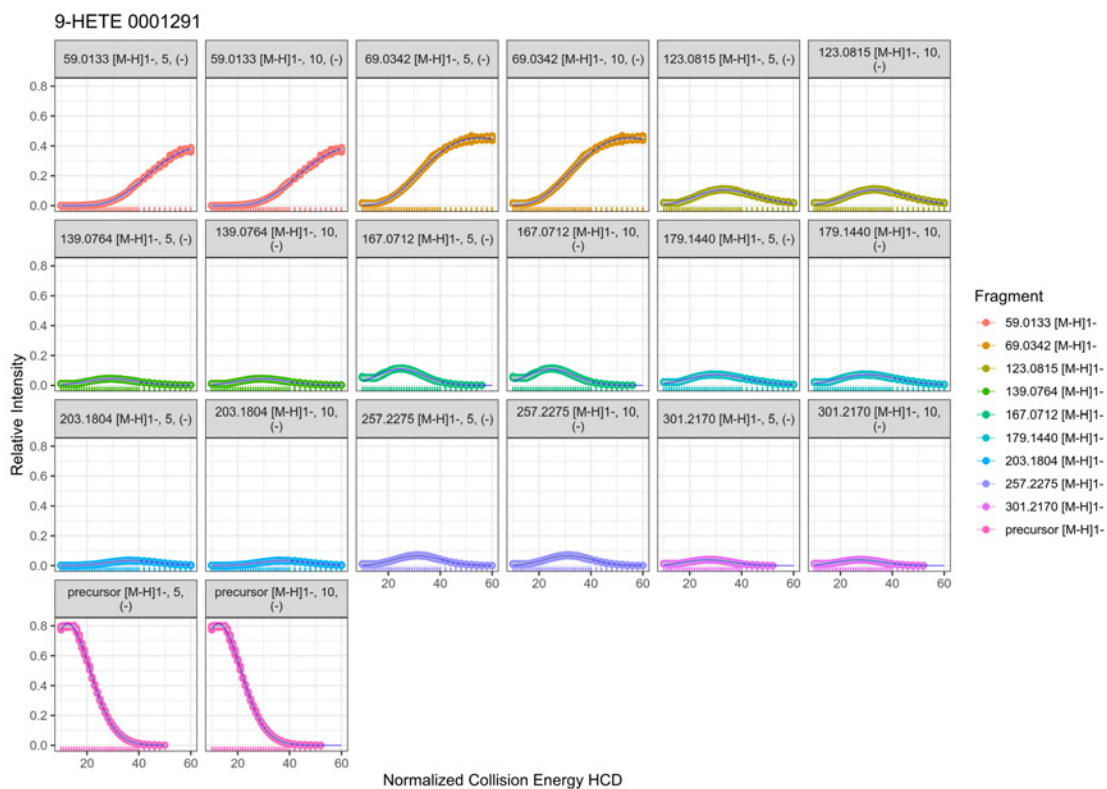


Figure 166. Nonlinear fit

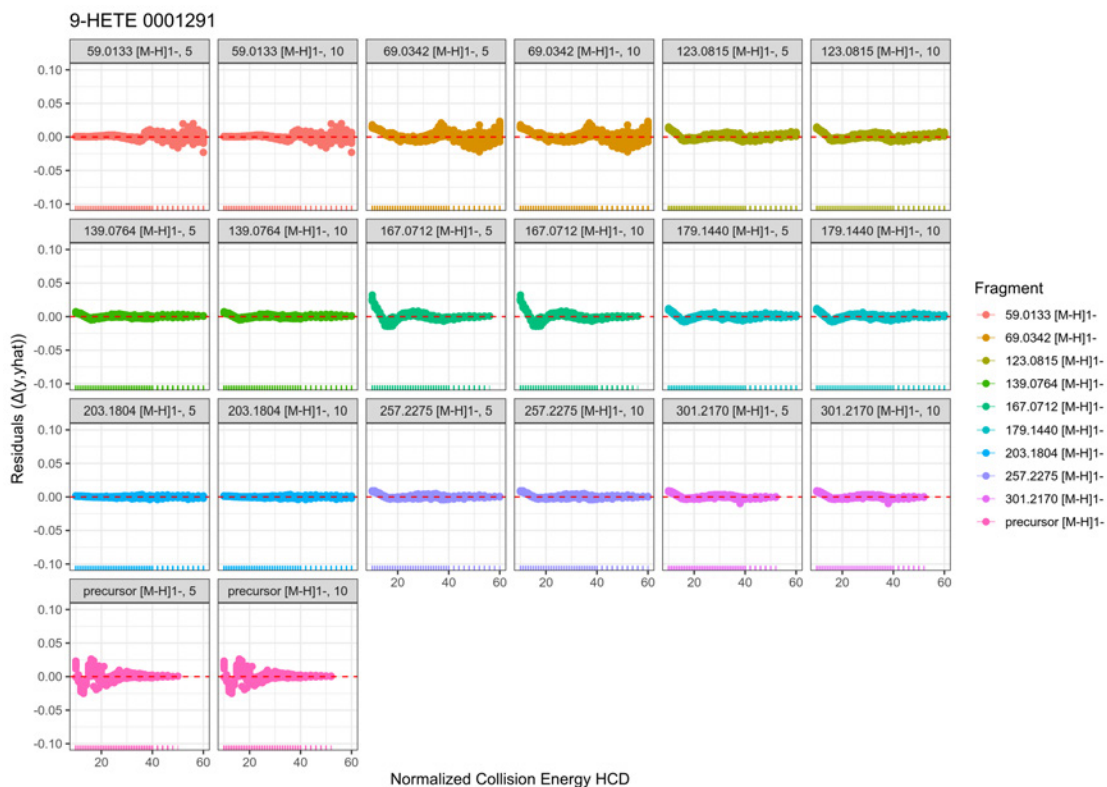


Figure 167. Residuals of nonlinear fit

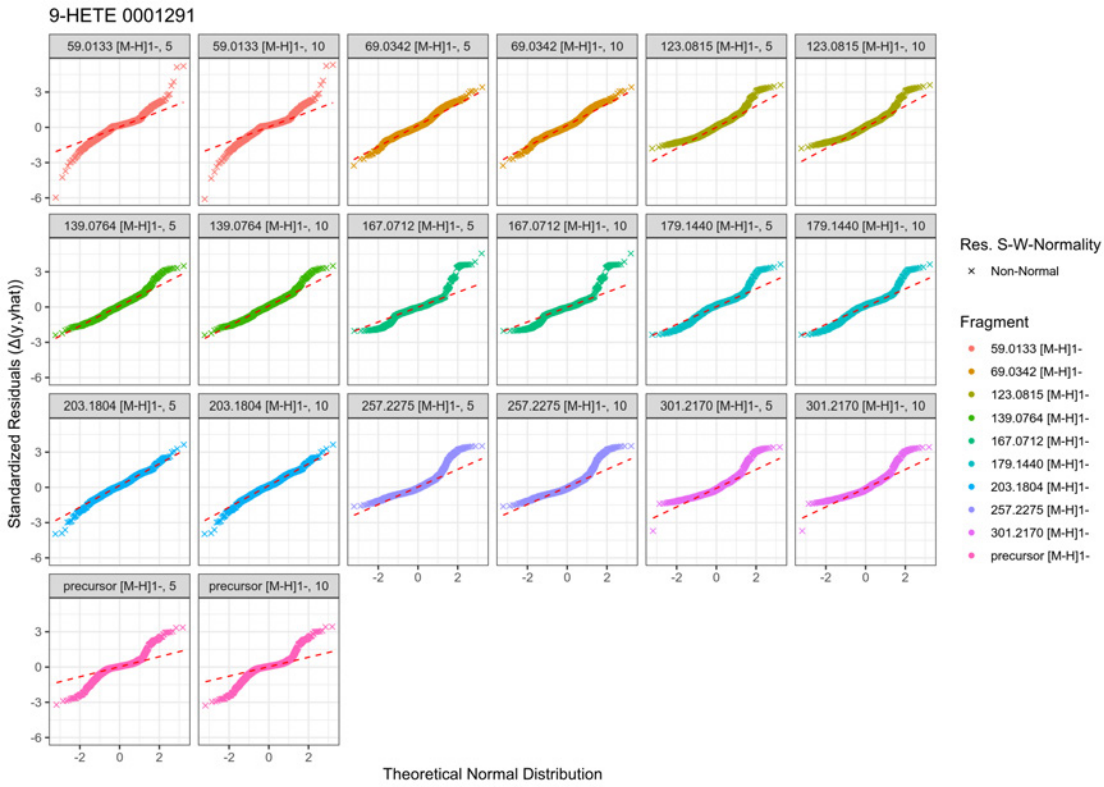


Figure 168. Quantile-quantile plot of residuals

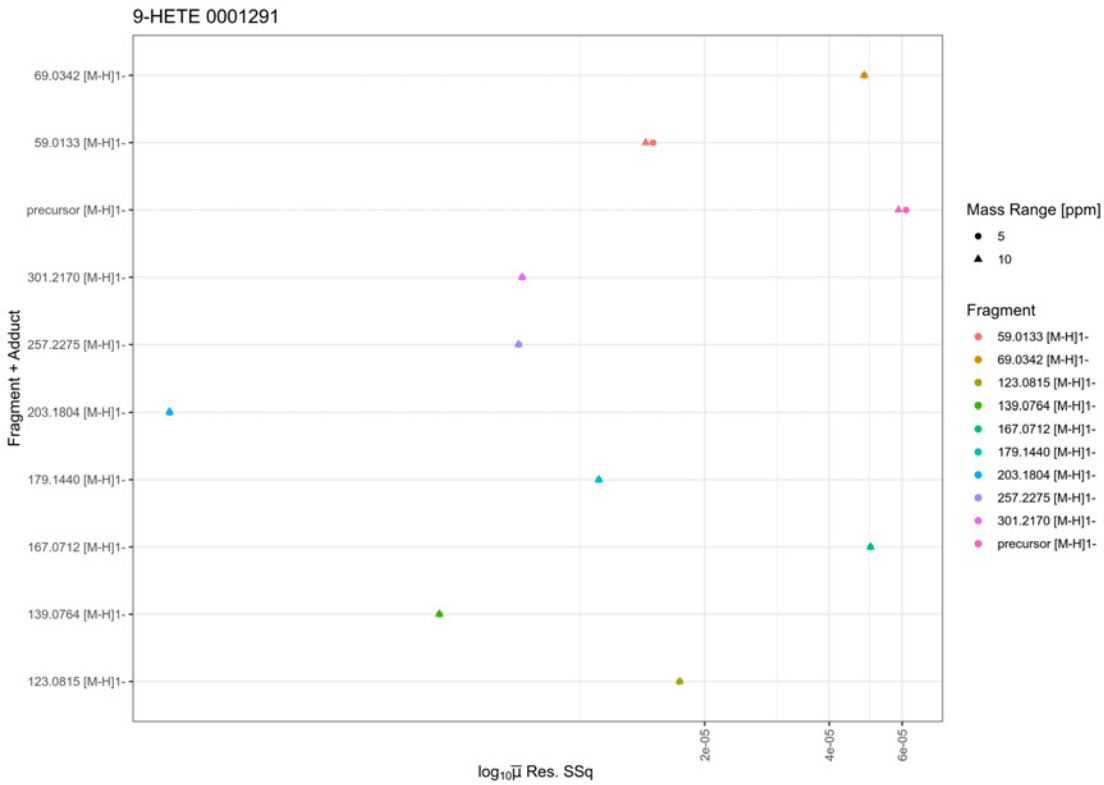


Figure 169. Normalized sum-of-squares of the residuals

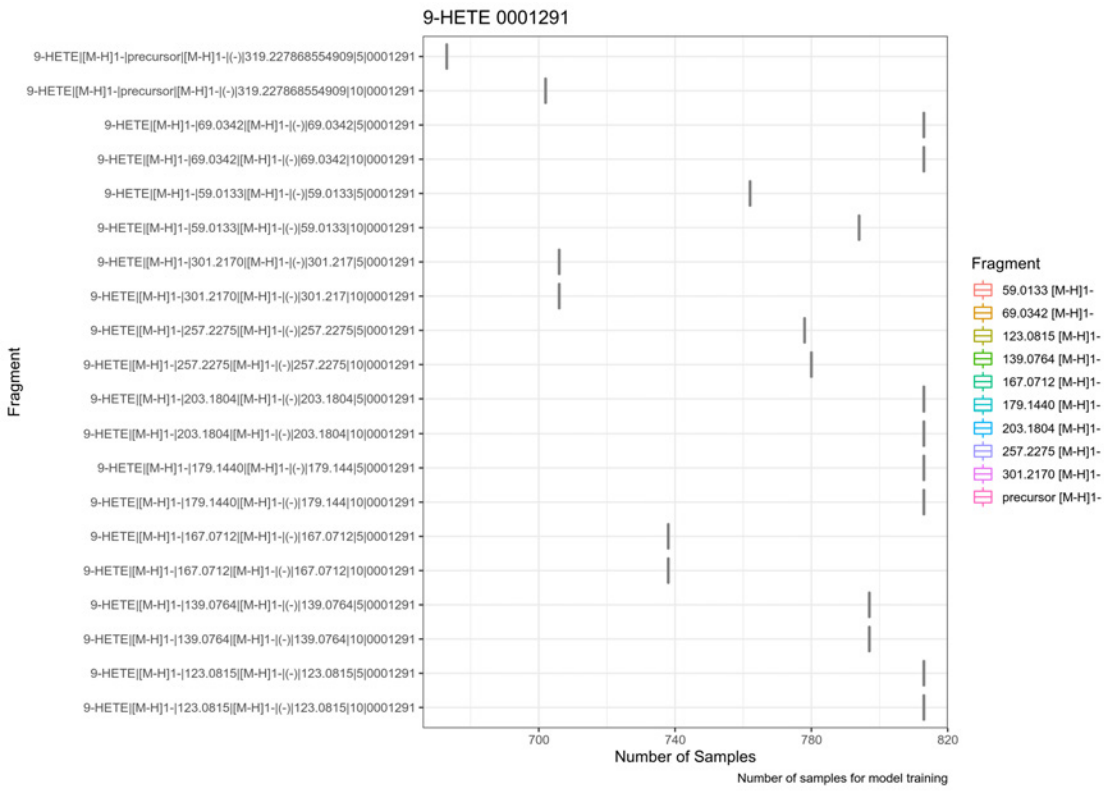


Figure 170. Number of samples used for training per combination Id

# 1.35. 9-HODE [M-H]1- 0001339

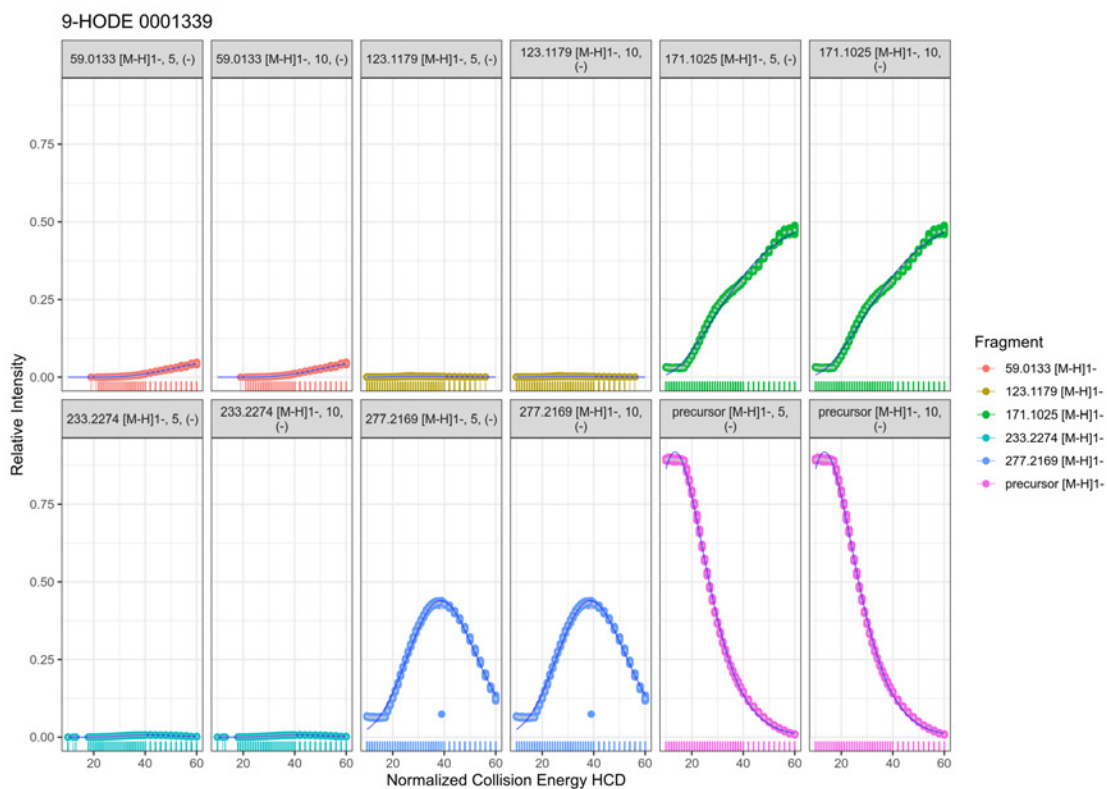


Figure 171. Nonlinear fit

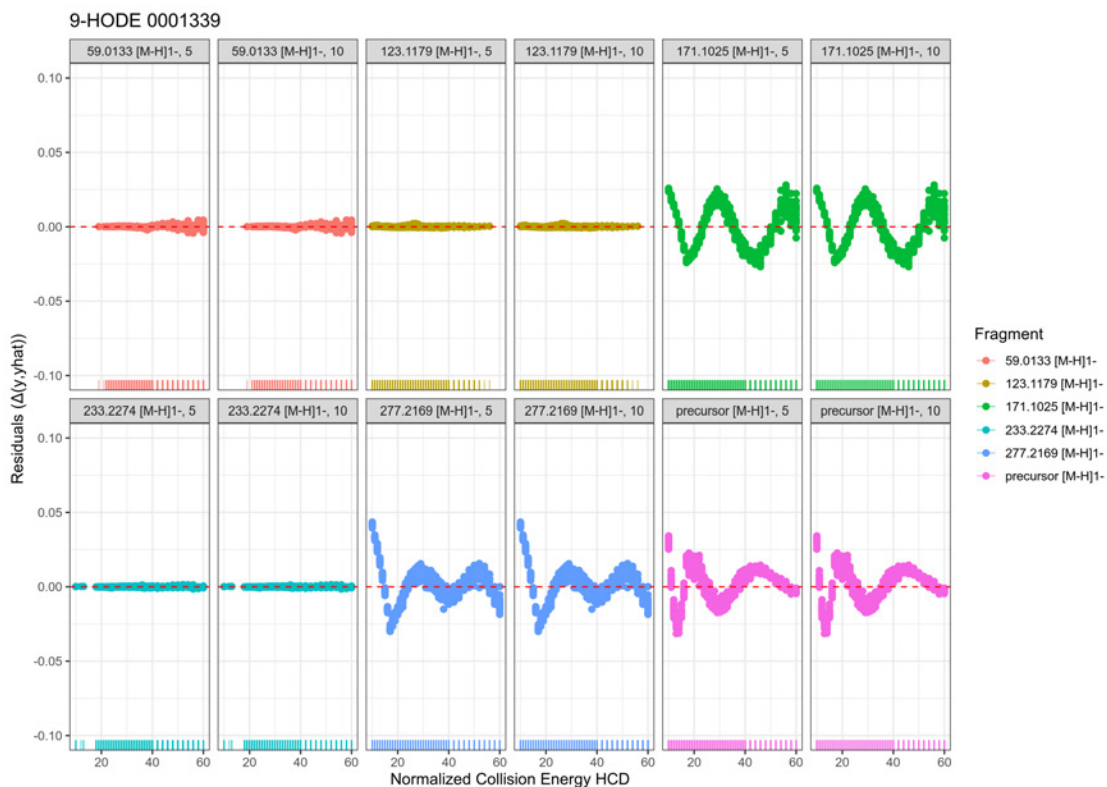


Figure 172. Residuals of nonlinear fit

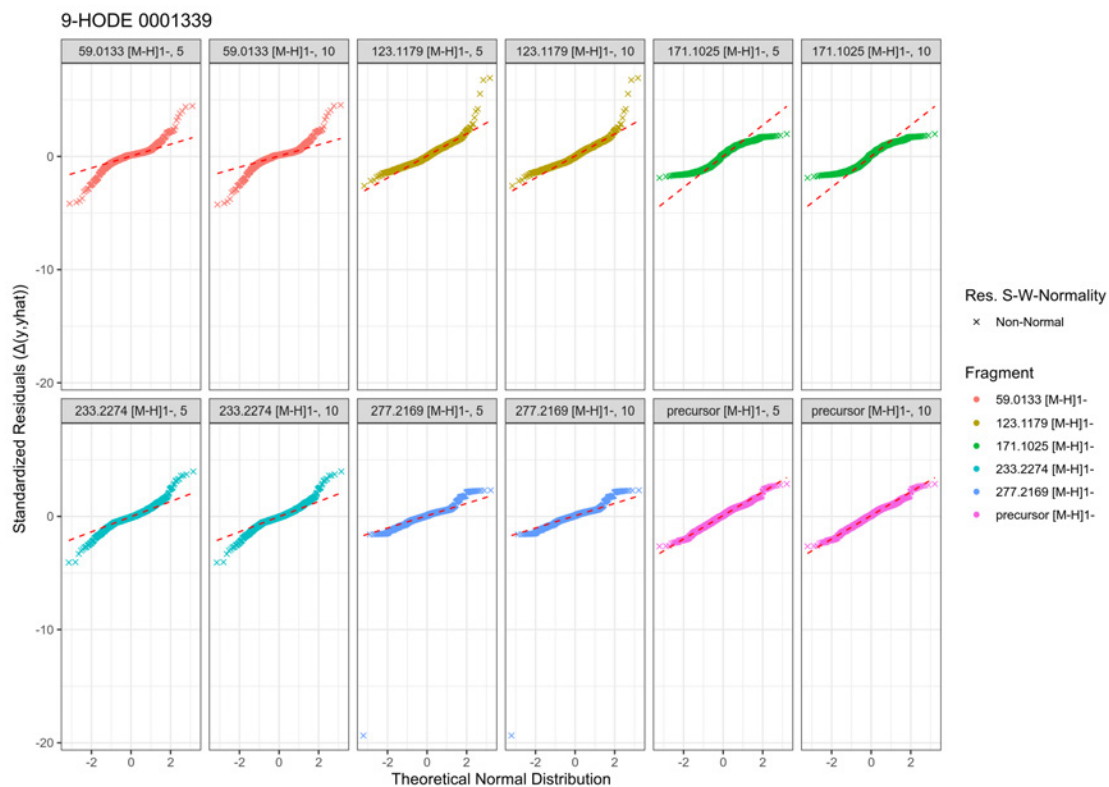


Figure 173. Quantile-quantile plot of residuals

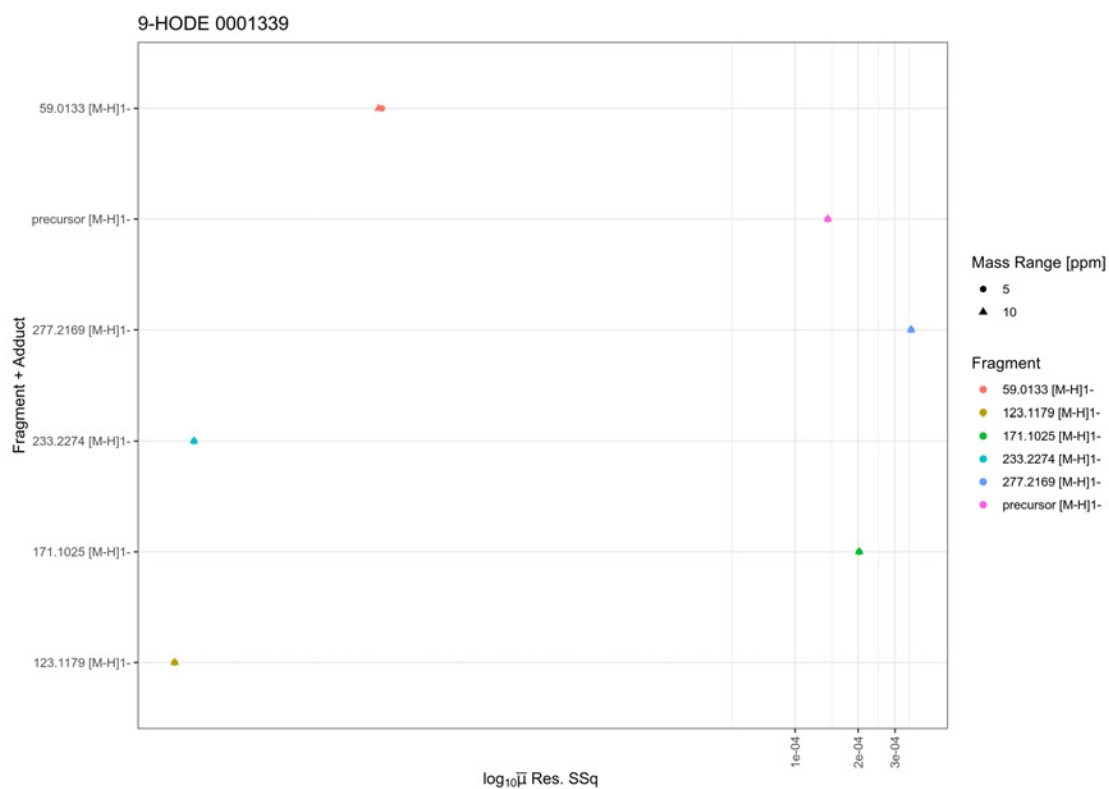


Figure 174. Normalized sum-of-squares of the residuals



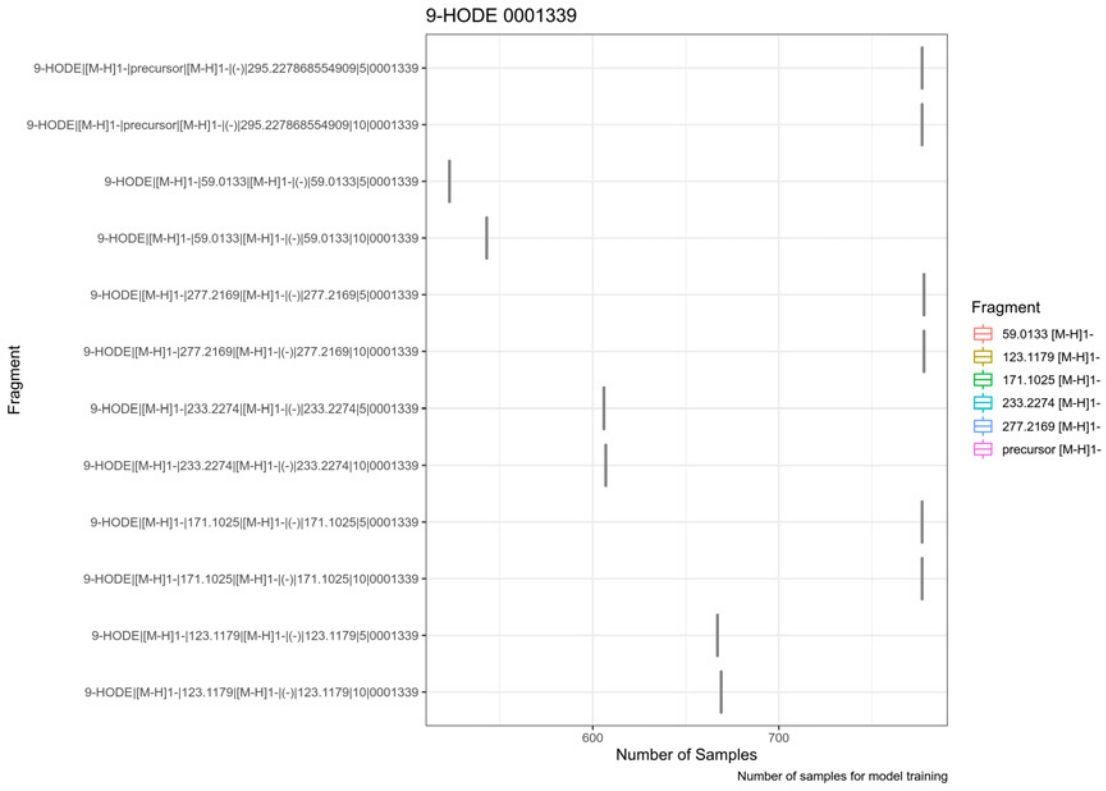


Figure 175. Number of samples used for training per combination Id

# 1.36. 9-HOTrE [M-H]1- 0000137

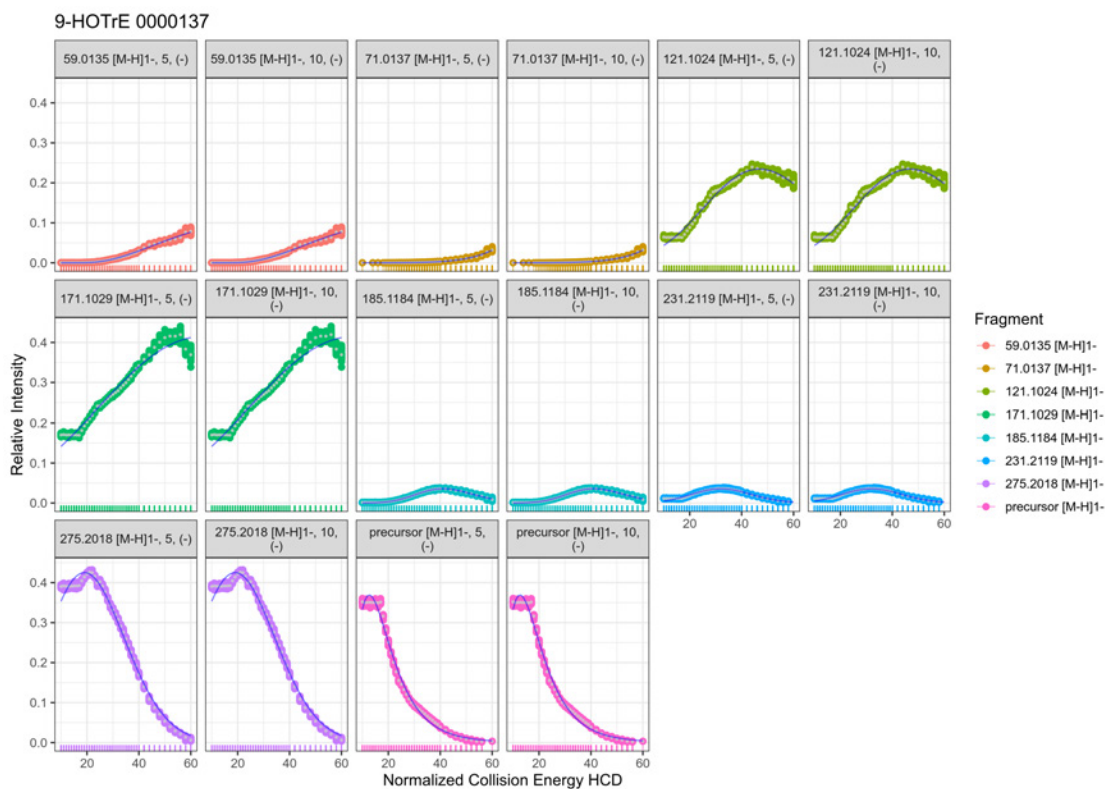


Figure 176. Nonlinear fit

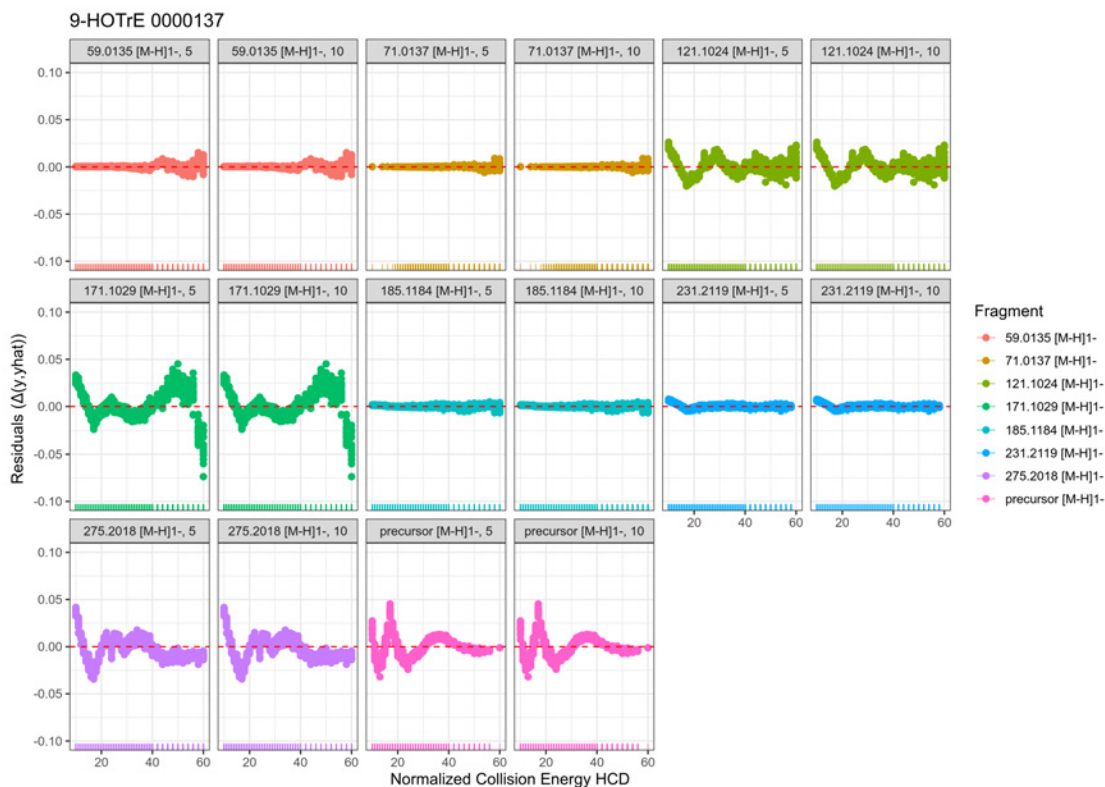


Figure 177. Residuals of nonlinear fit

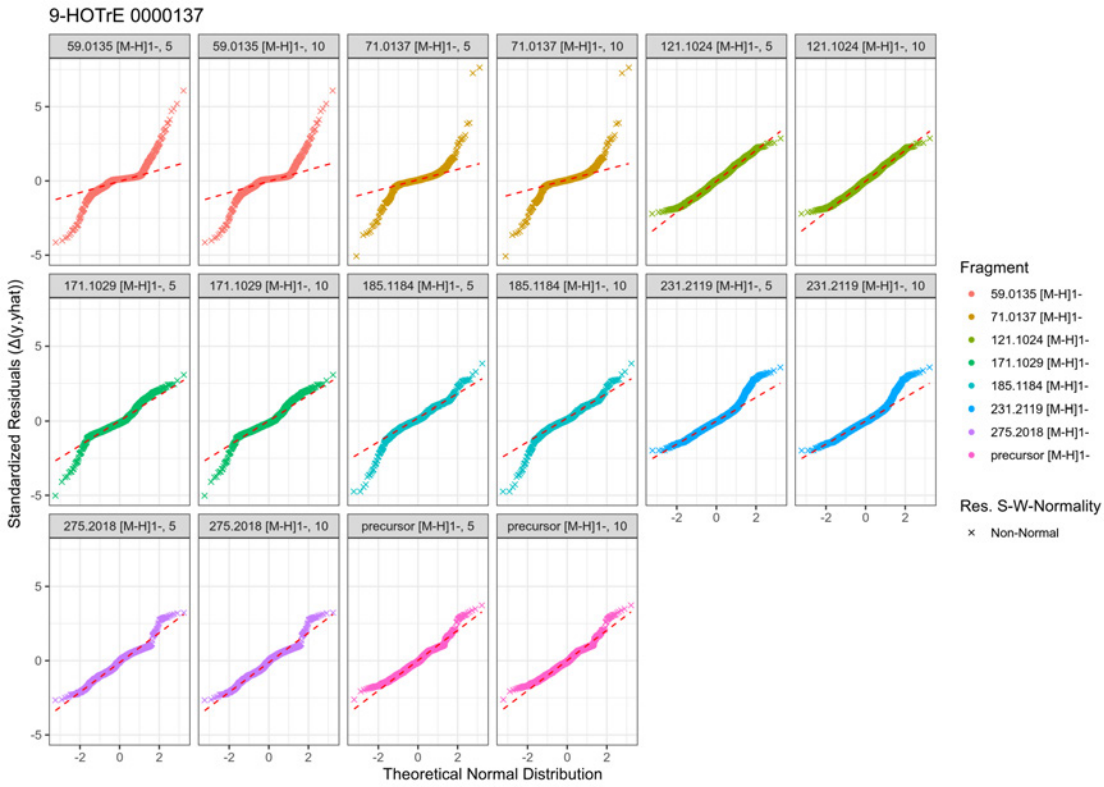


Figure 178. Quantile-quantile plot of residuals

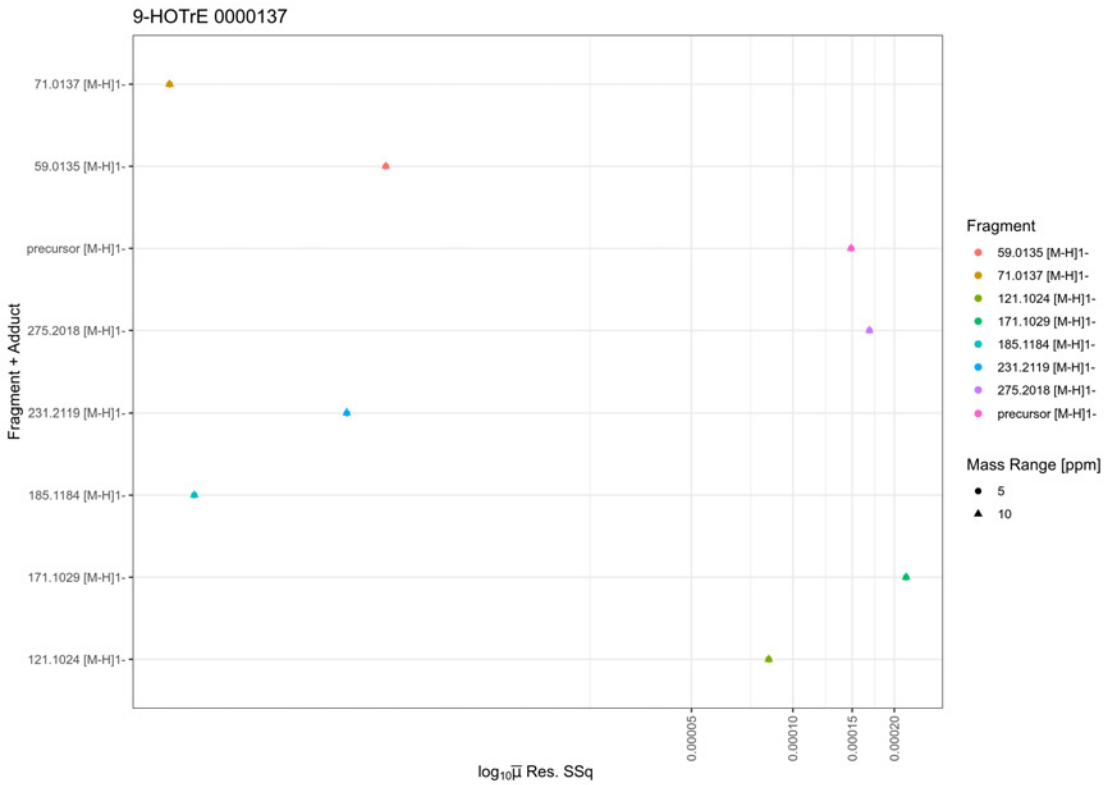


Figure 179. Normalized sum-of-squares of the residuals

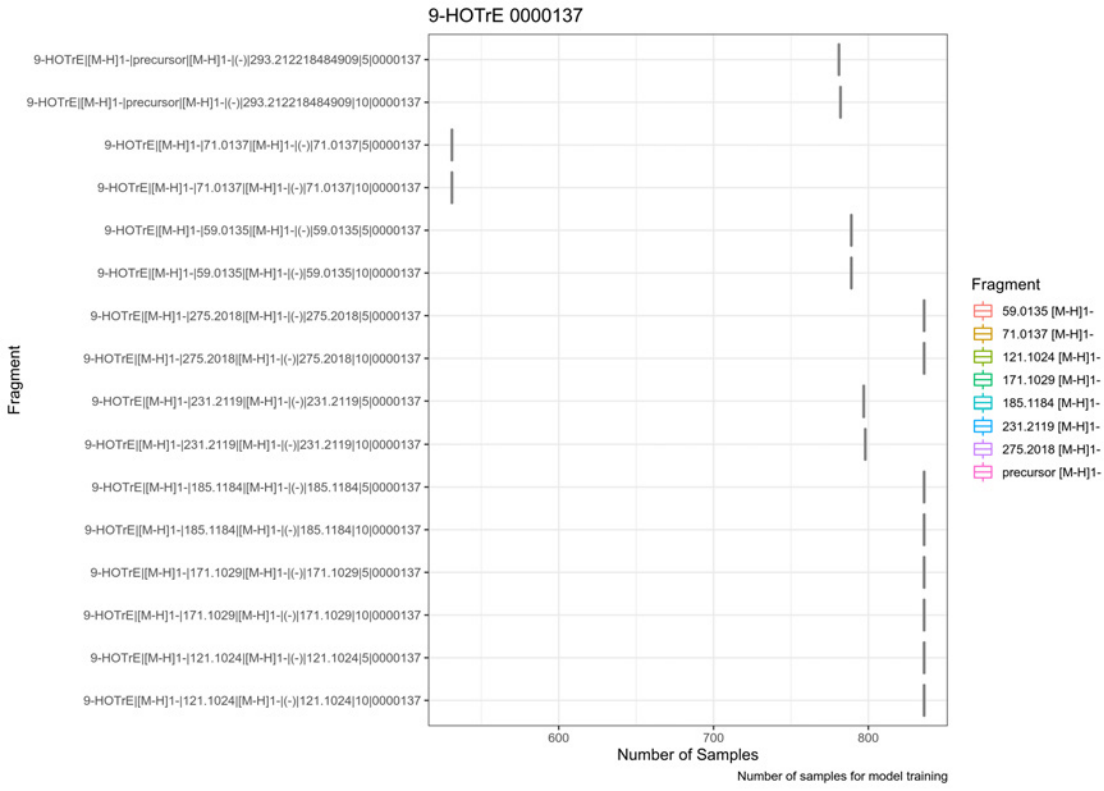


Figure 180. Number of samples used for training per combination Id

# 1.37. AA{d8} [M-H]1- 0001337

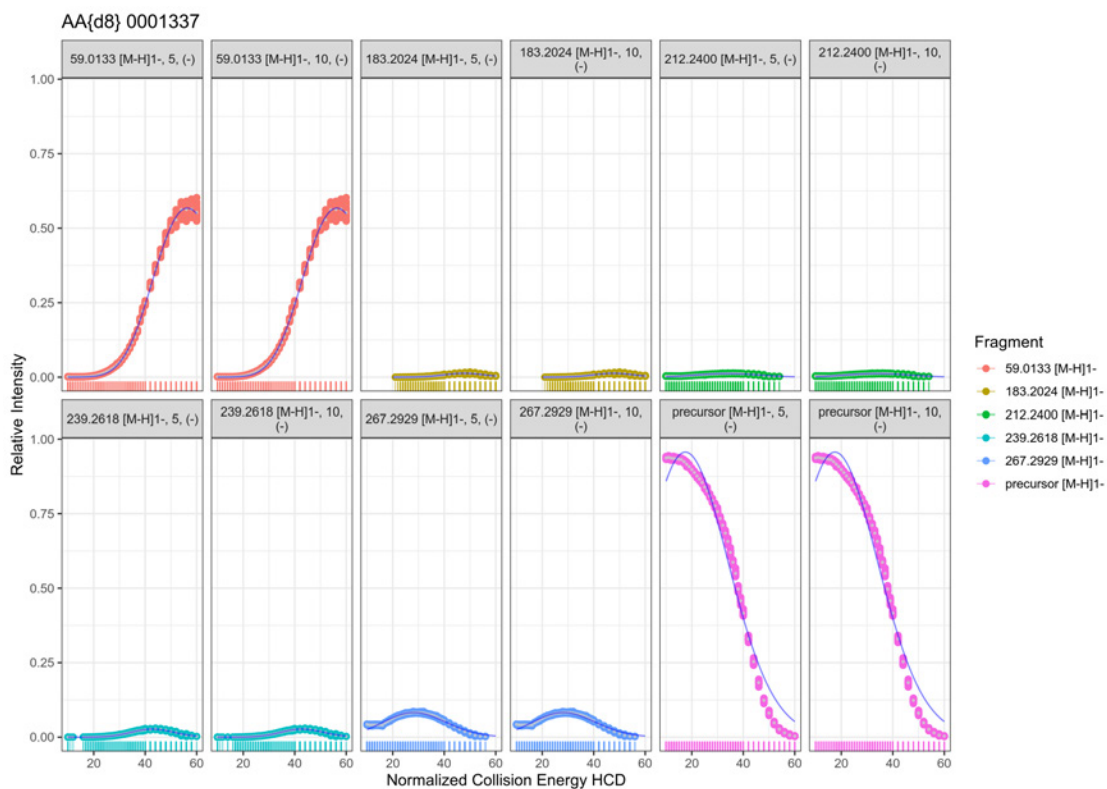


Figure 181. Nonlinear fit

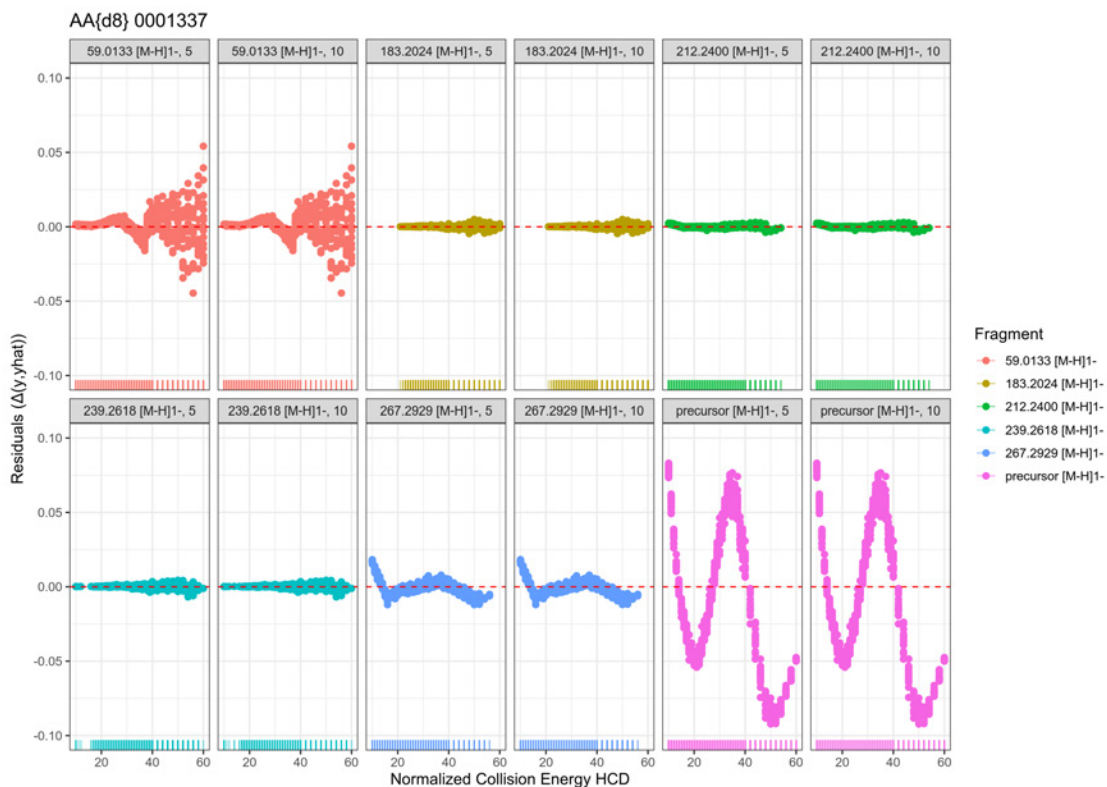


Figure 182. Residuals of nonlinear fit

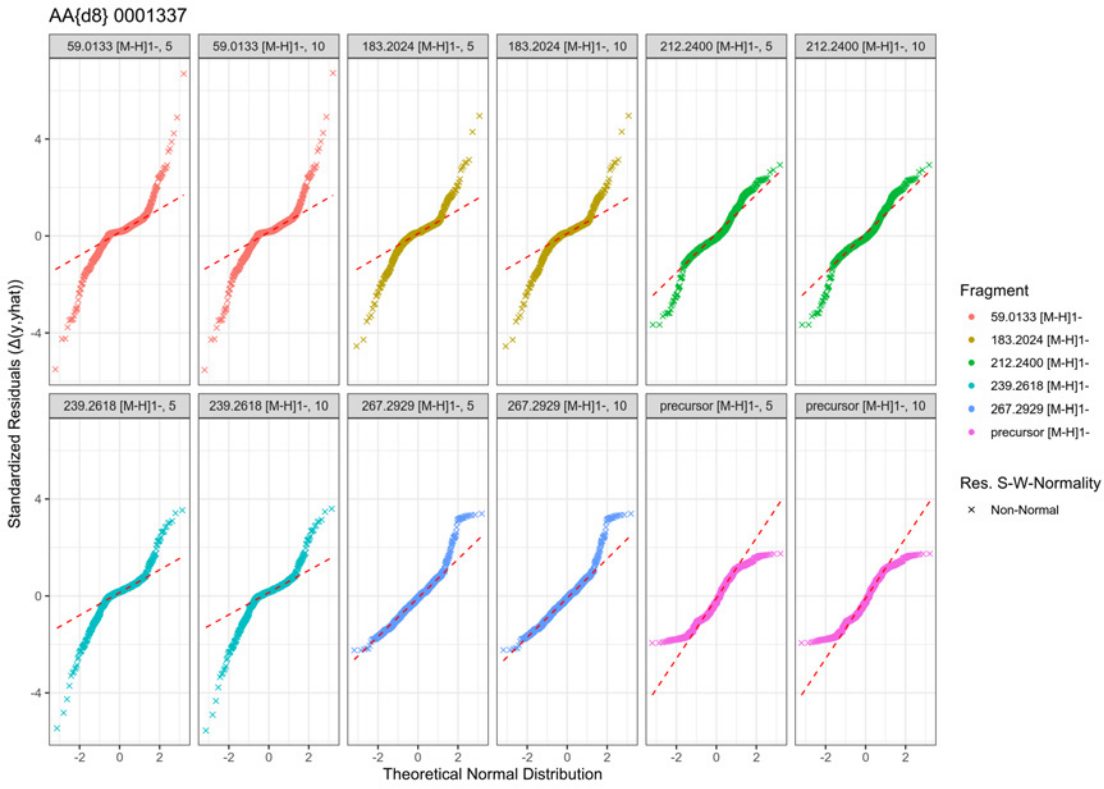


Figure 183. Quantile-quantile plot of residuals

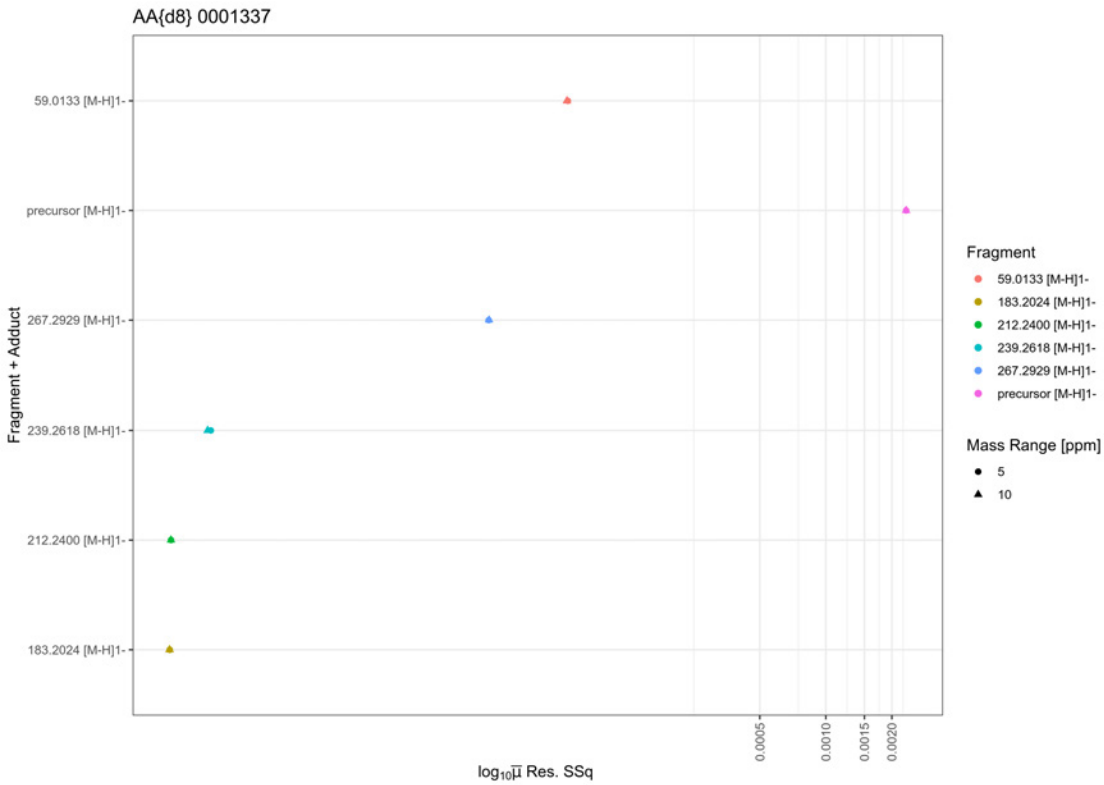


Figure 184. Normalized sum-of-squares of the residuals



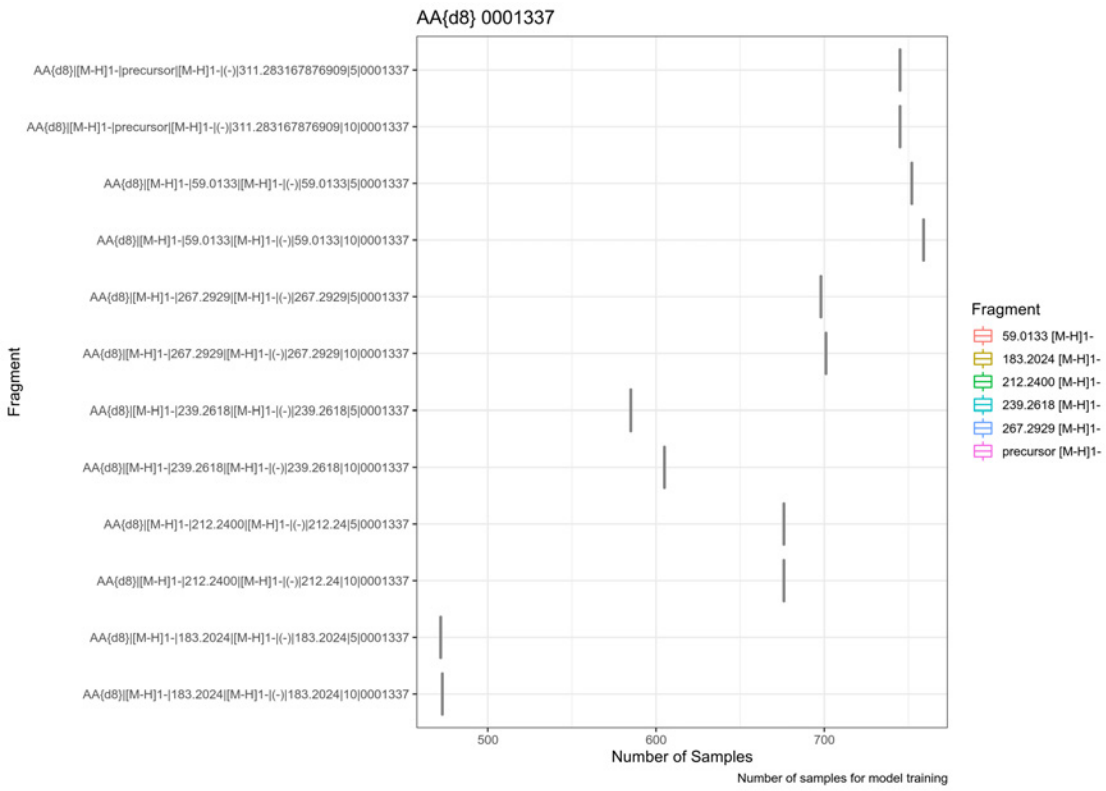


Figure 185. Number of samples used for training per combination Id

# 1.38. DHA{d5} [M-H]1- 0001353

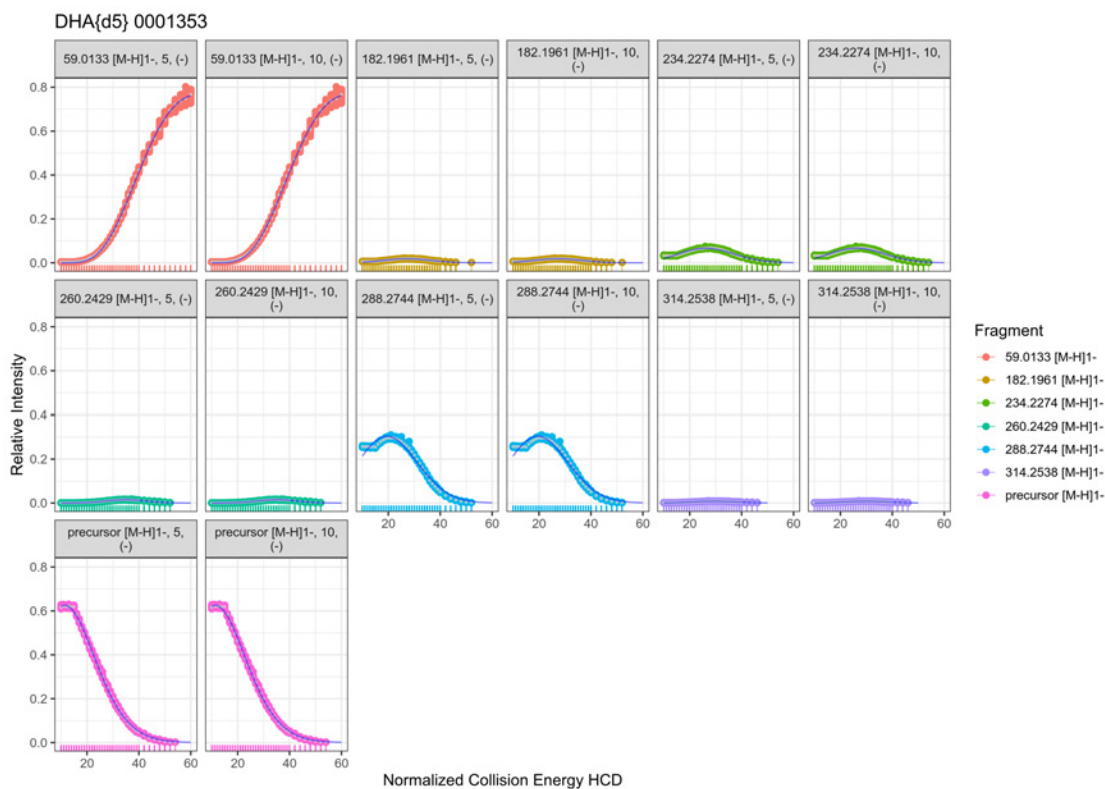


Figure 186. Nonlinear fit

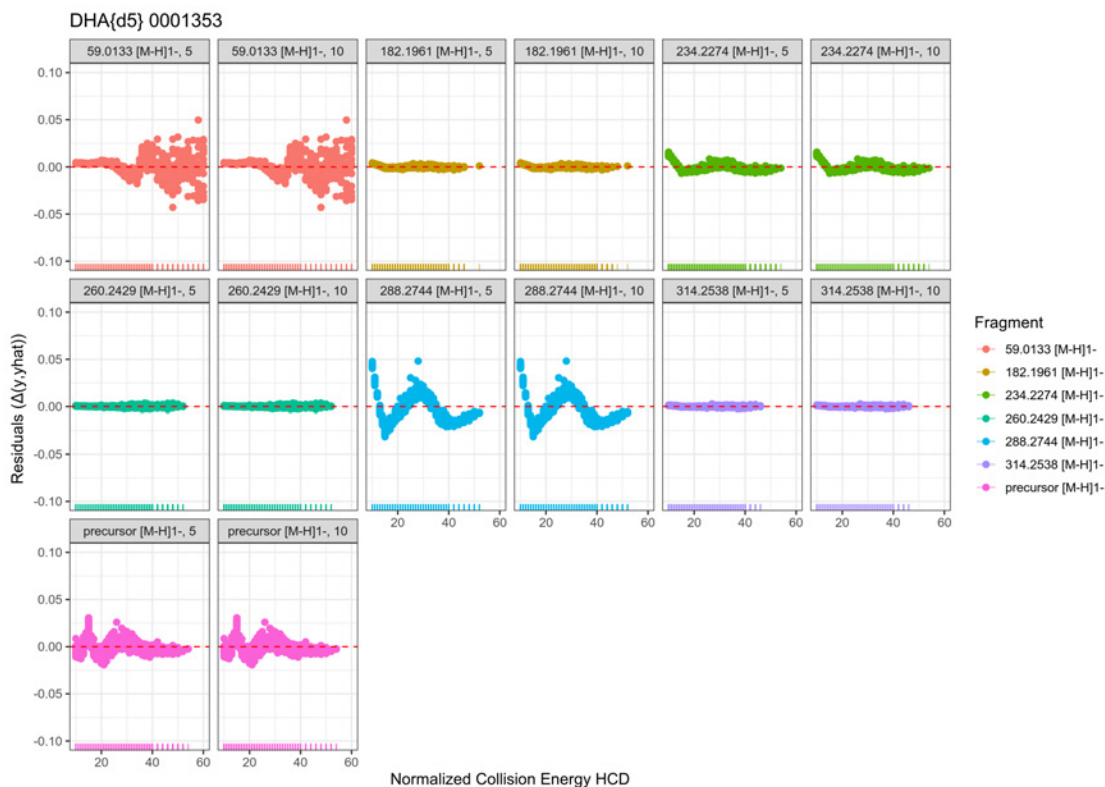


Figure 187. Residuals of nonlinear fit

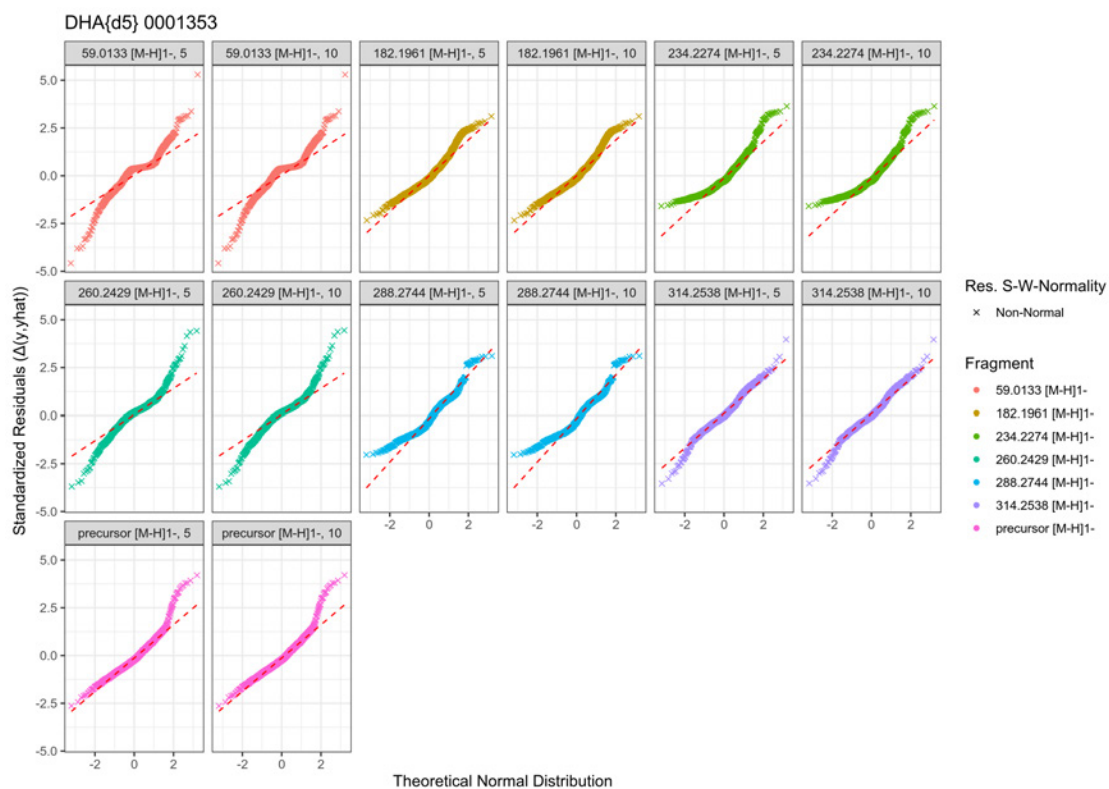


Figure 188. Quantile-quantile plot of residuals

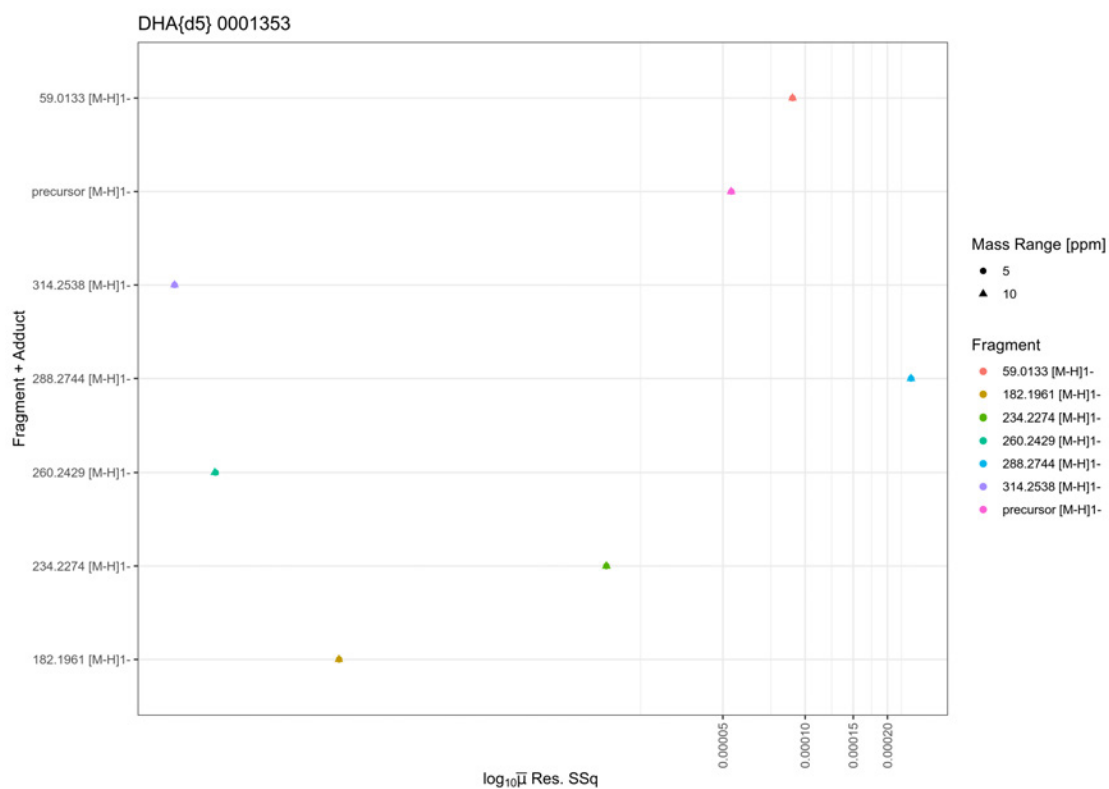


Figure 189. Normalized sum-of-squares of the residuals

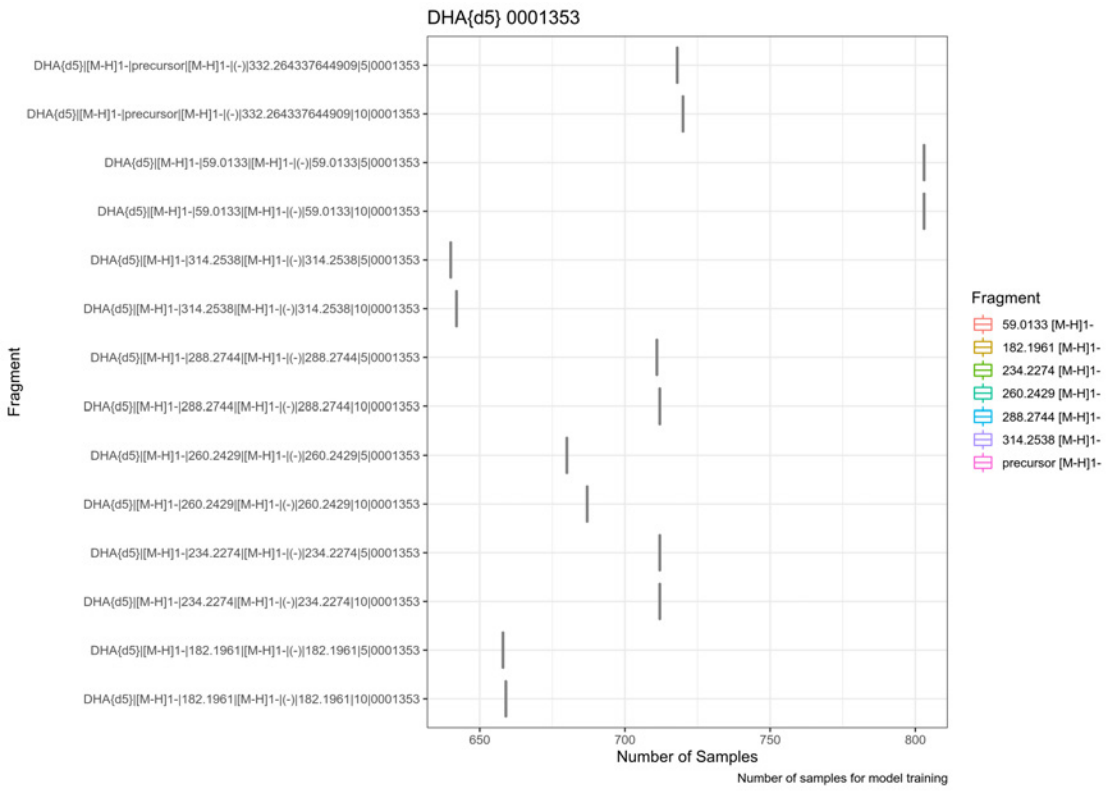


Figure 190. Number of samples used for training per combination Id

# 1.39. EPA{d5} [M-H]1- 0001335

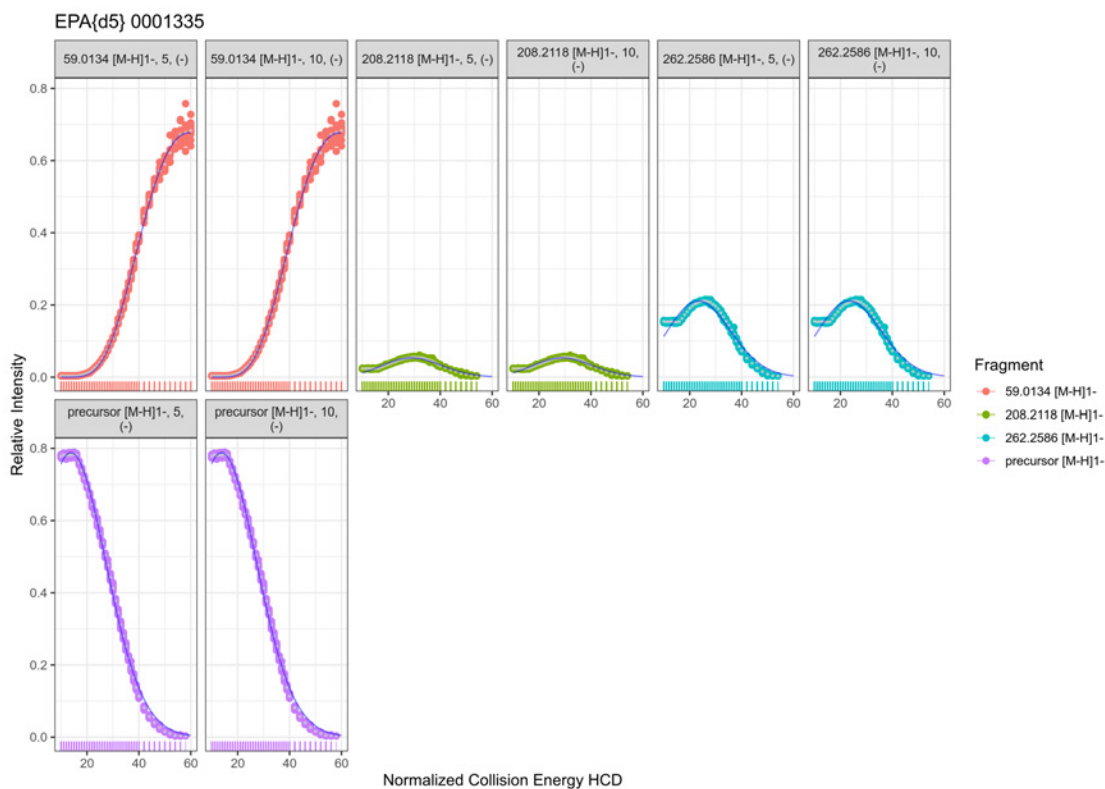


Figure 191. Nonlinear fit

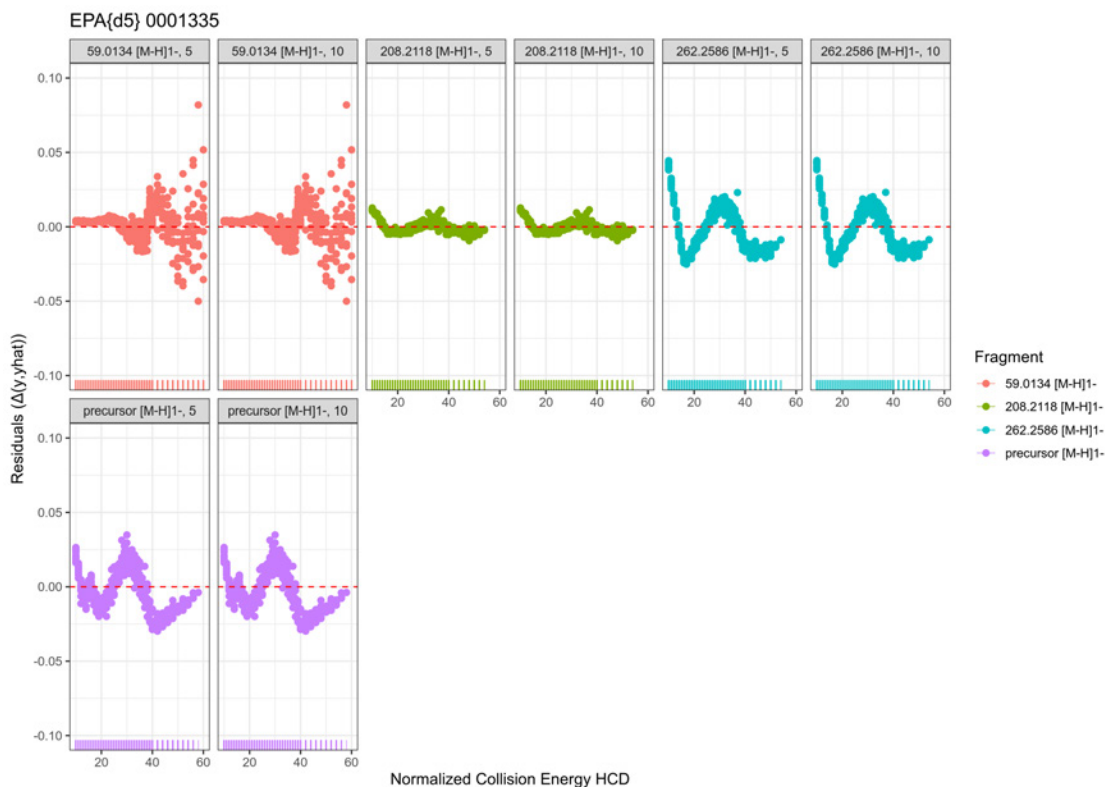


Figure 192. Residuals of nonlinear fit

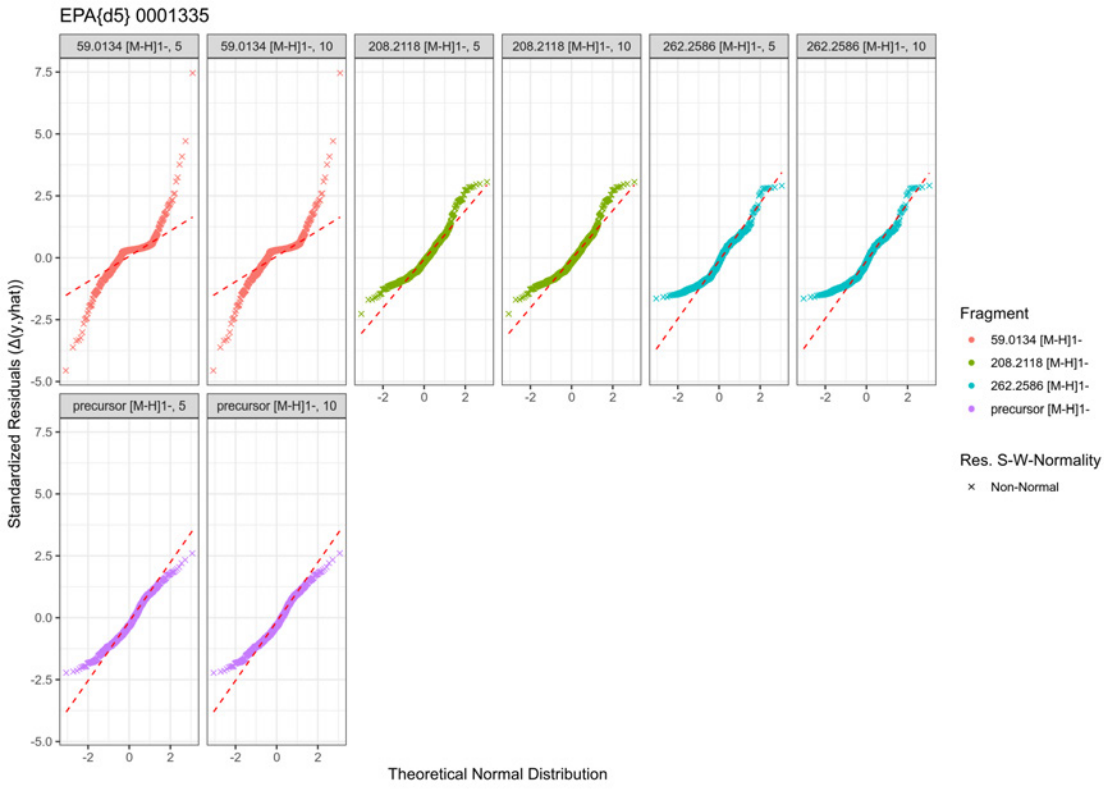


Figure 193. Quantile-quantile plot of residuals

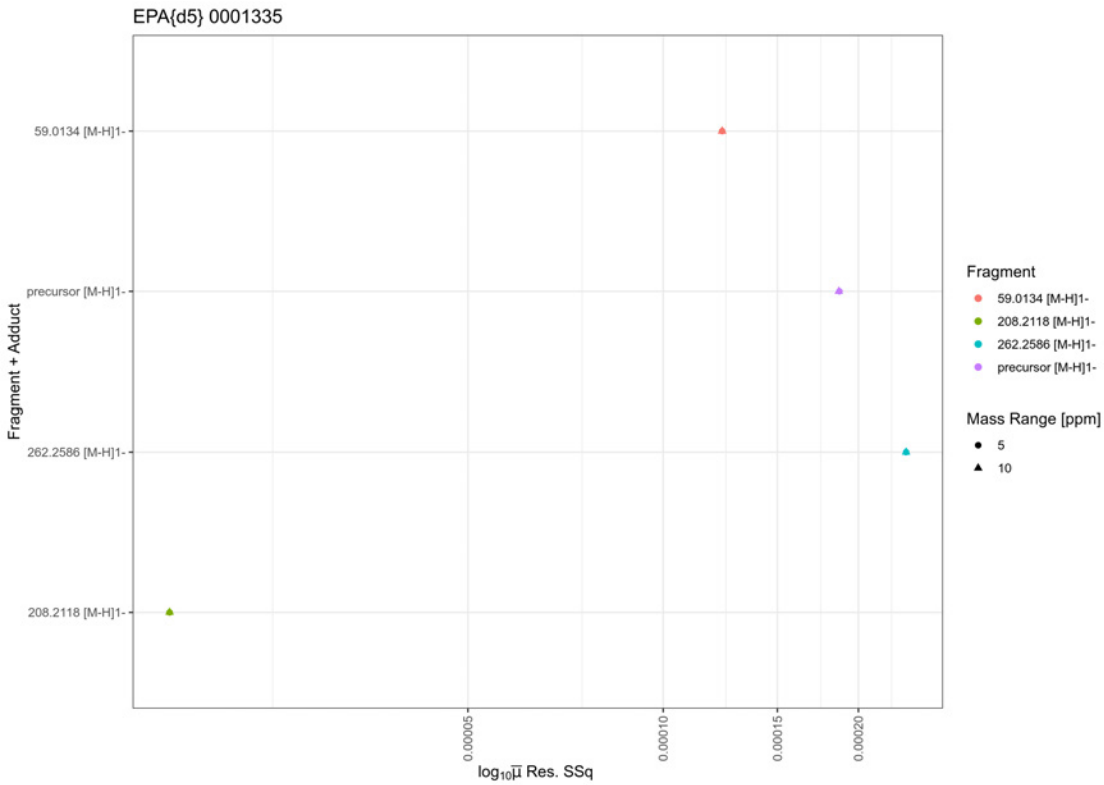


Figure 194. Normalized sum-of-squares of the residuals



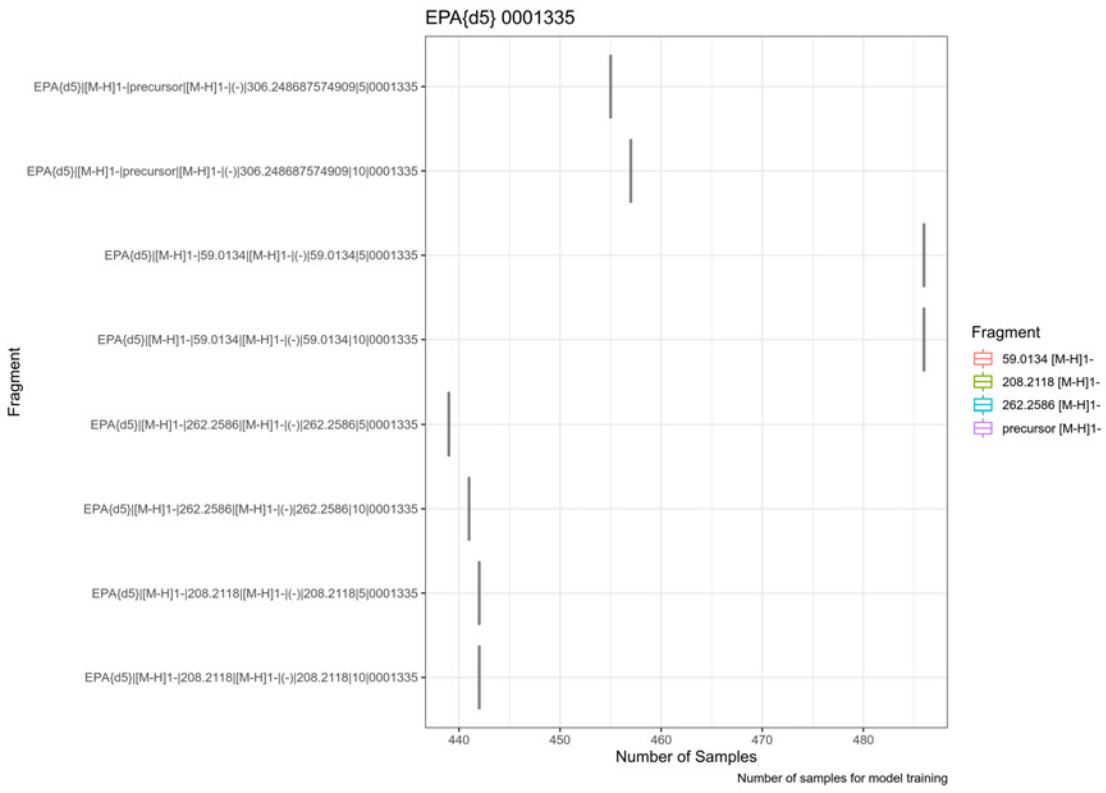


Figure 195. Number of samples used for training per combination Id

# 1.40. LTB4{d4} [M-H]1- 0001331

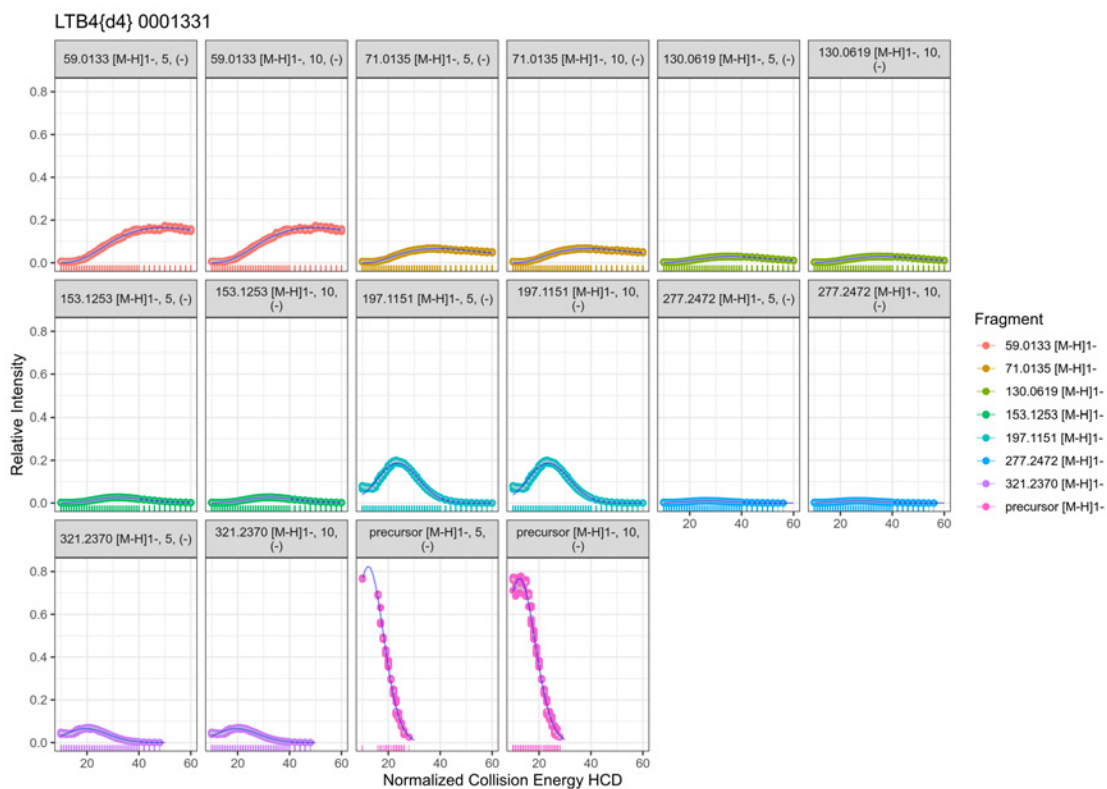


Figure 196. Nonlinear fit

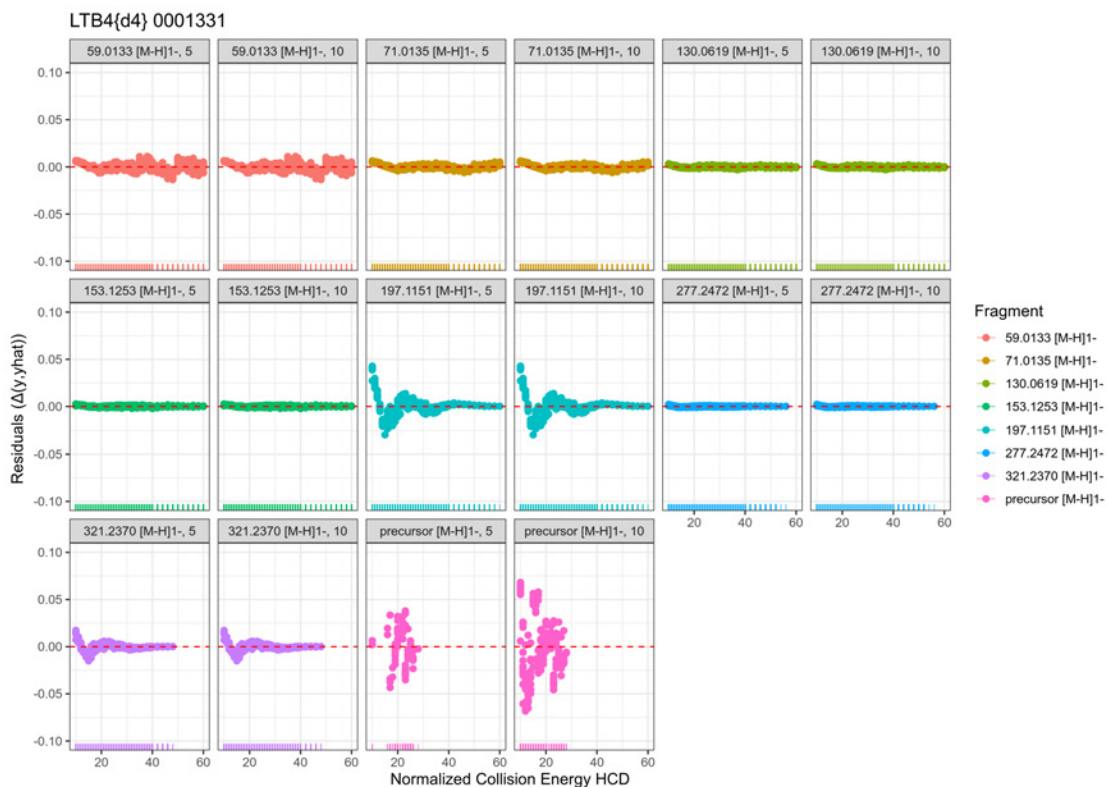


Figure 197. Residuals of nonlinear fit

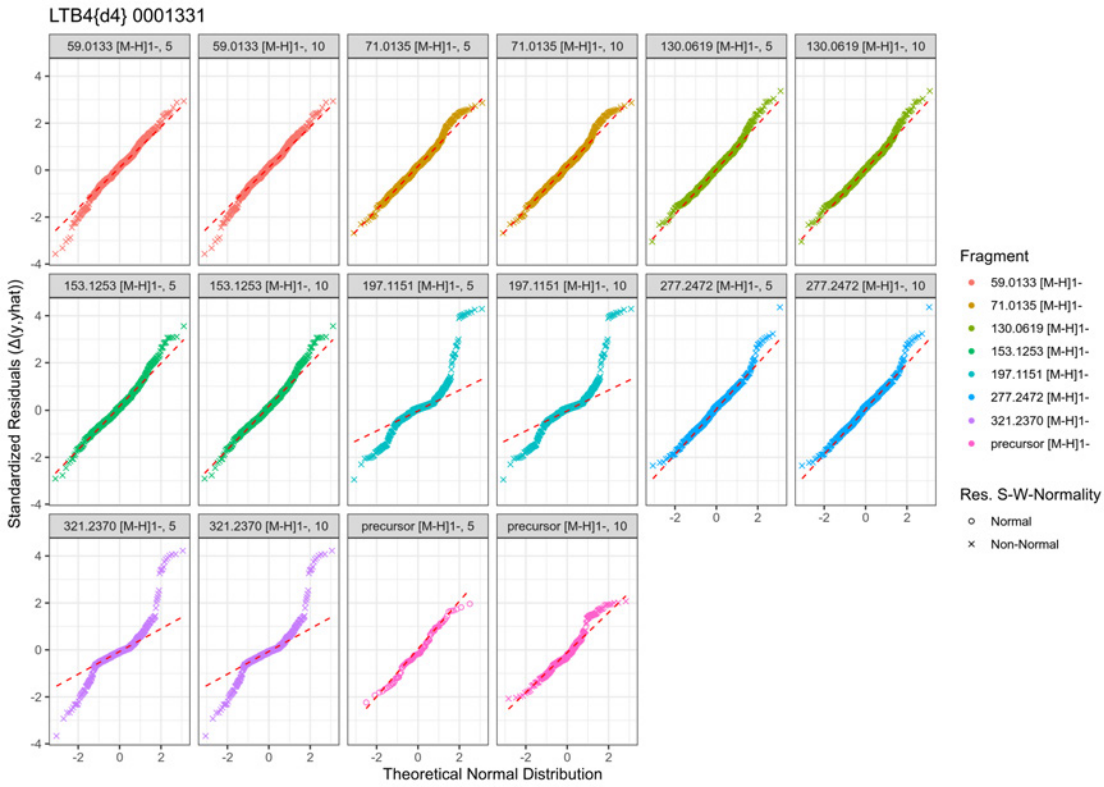


Figure 198. Quantile-quantile plot of residuals

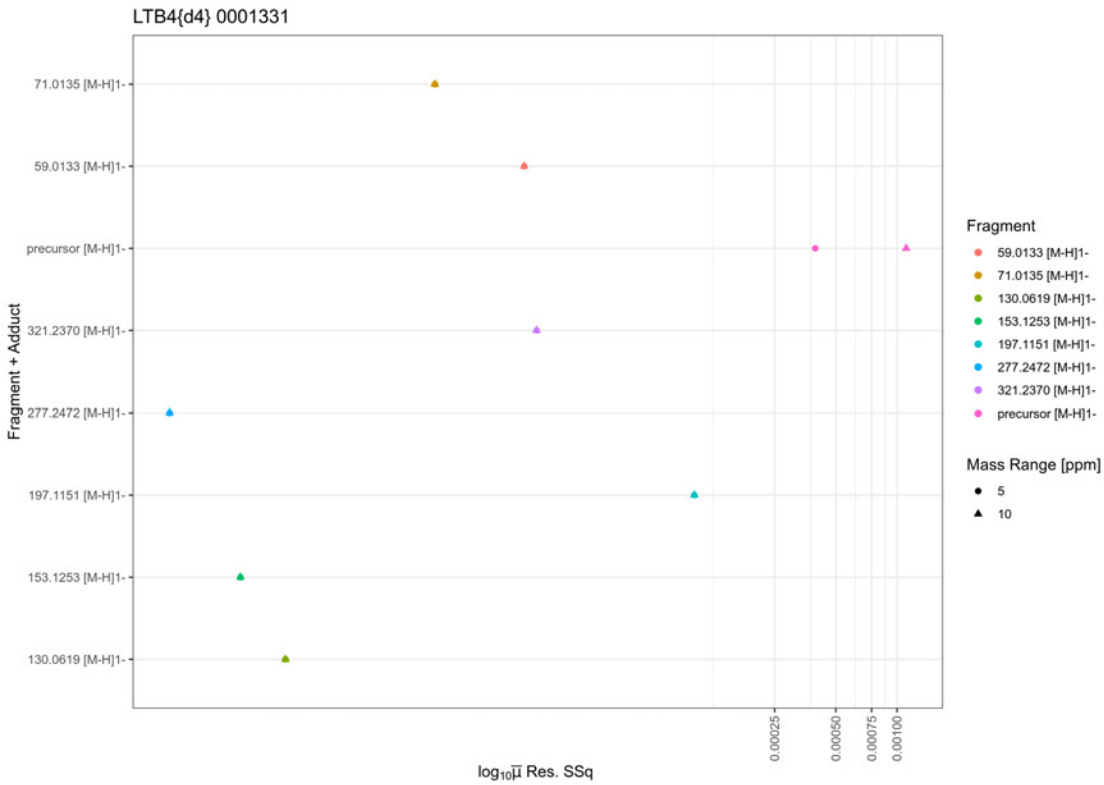


Figure 199. Normalized sum-of-squares of the residuals

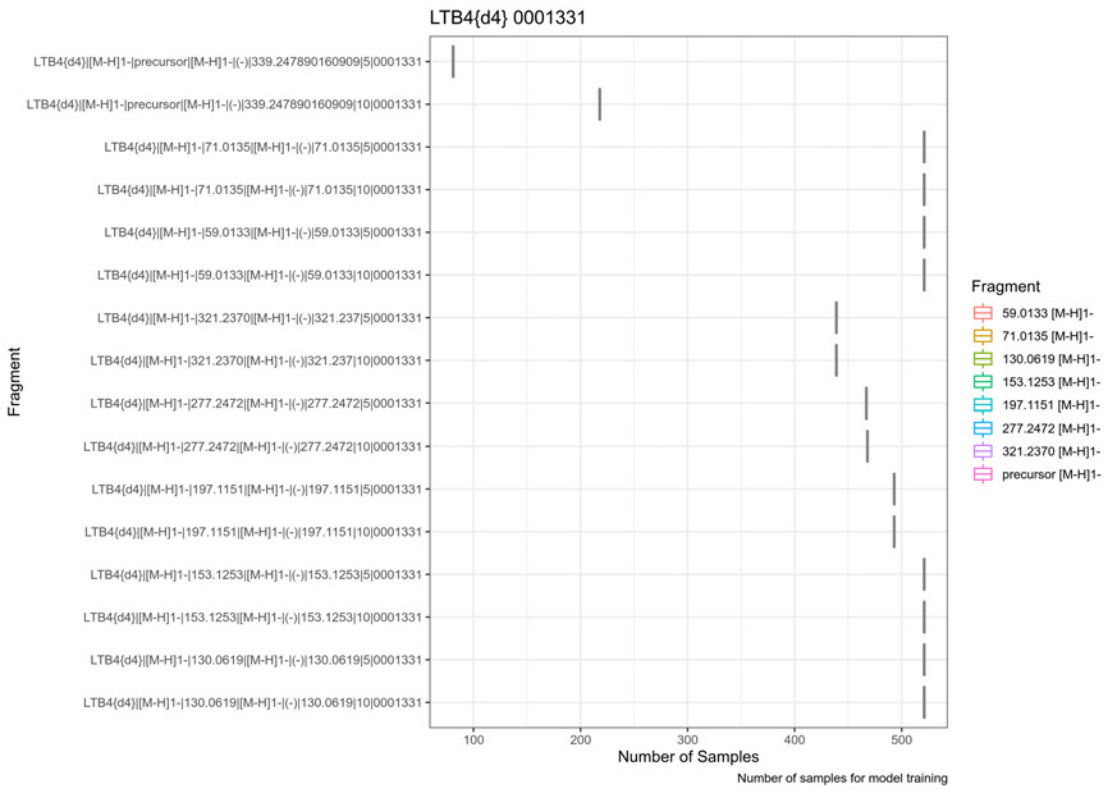


Figure 200. Number of samples used for training per combination Id

# 1.41. LTC4{d5} [M-H]1- 0000163

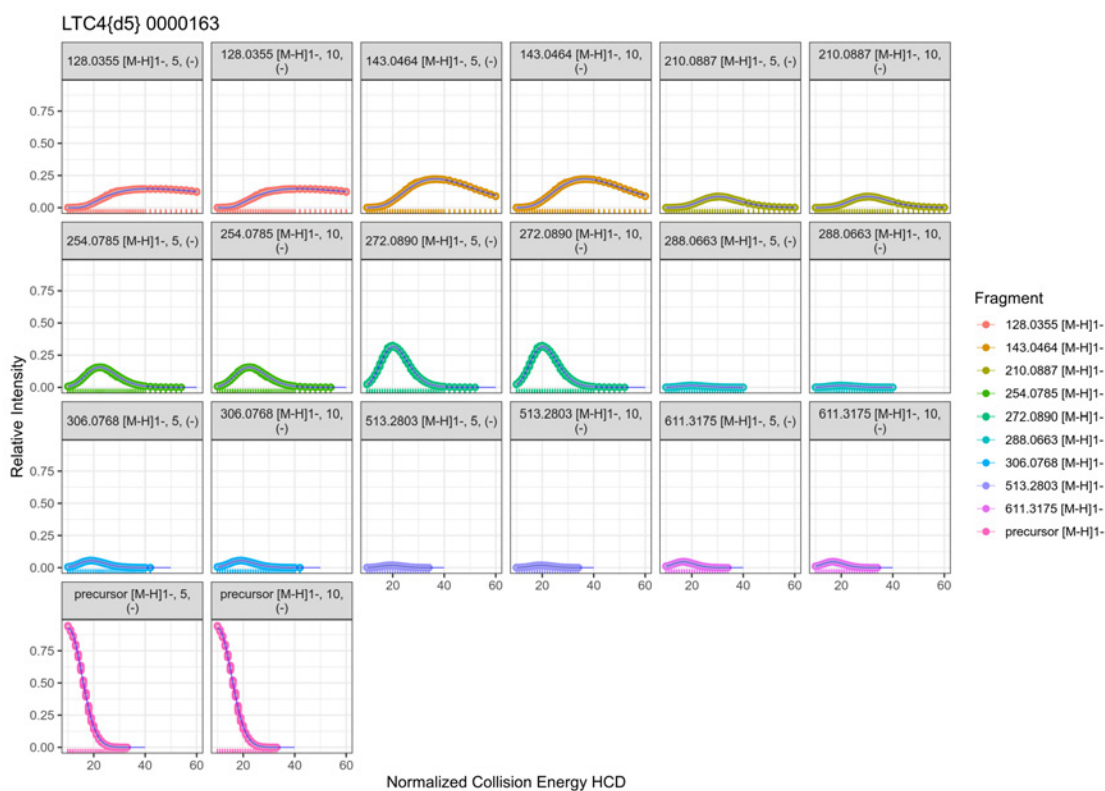


Figure 201. Nonlinear fit

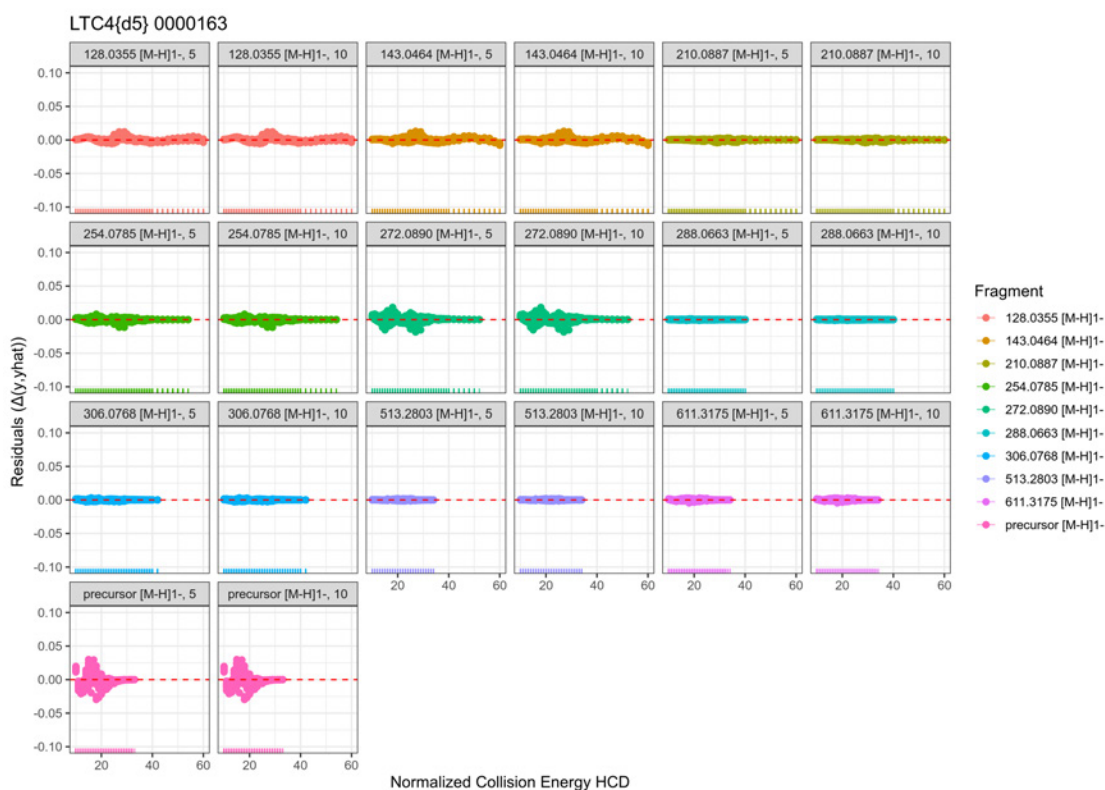


Figure 202. Residuals of nonlinear fit

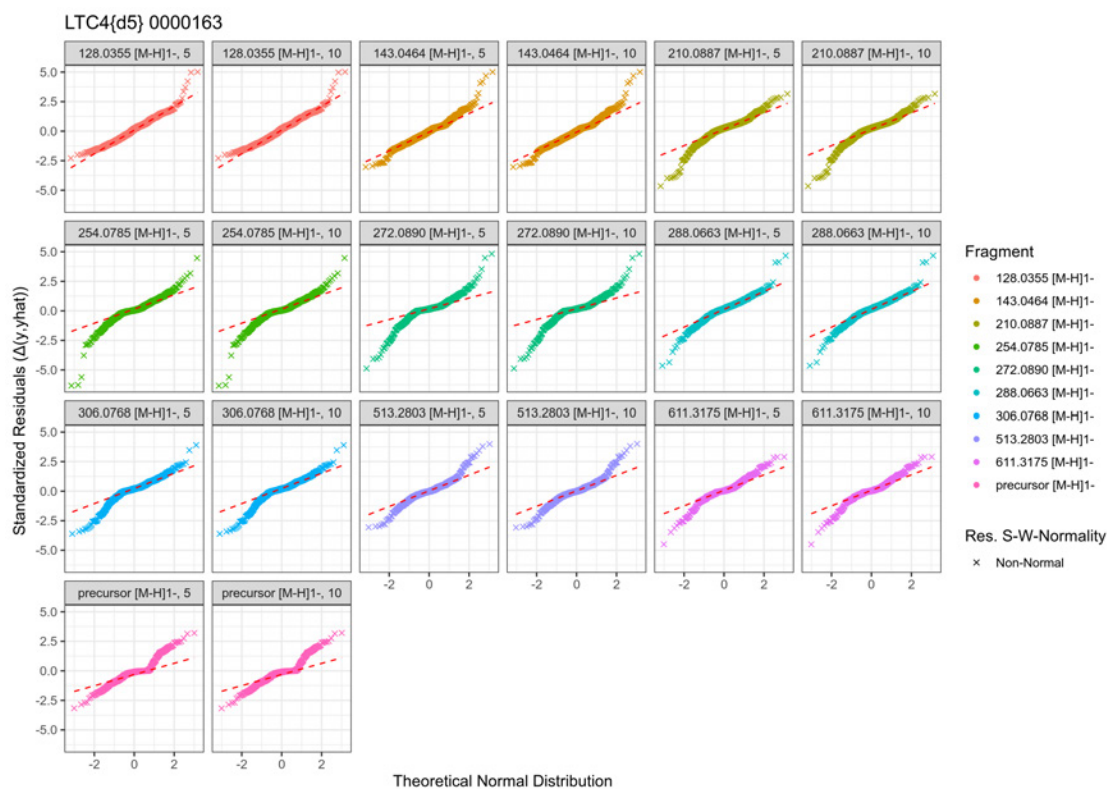


Figure 203. Quantile-quantile plot of residuals

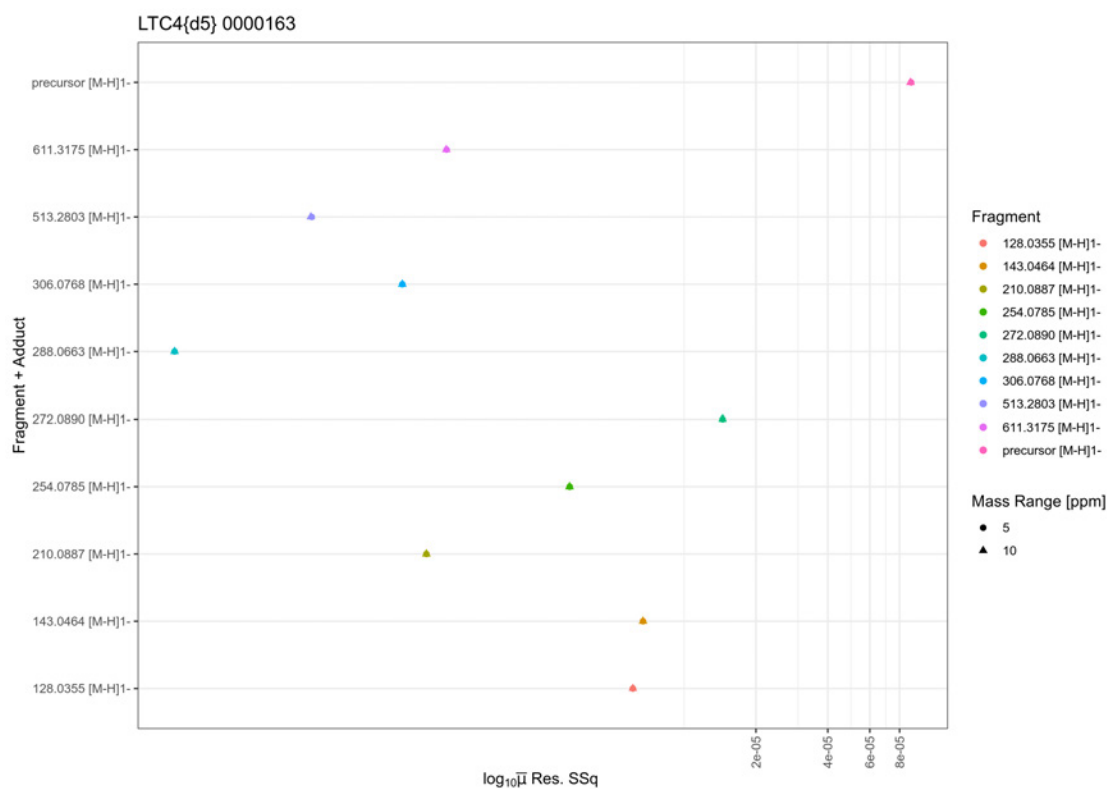


Figure 204. Normalized sum-of-squares of the residuals



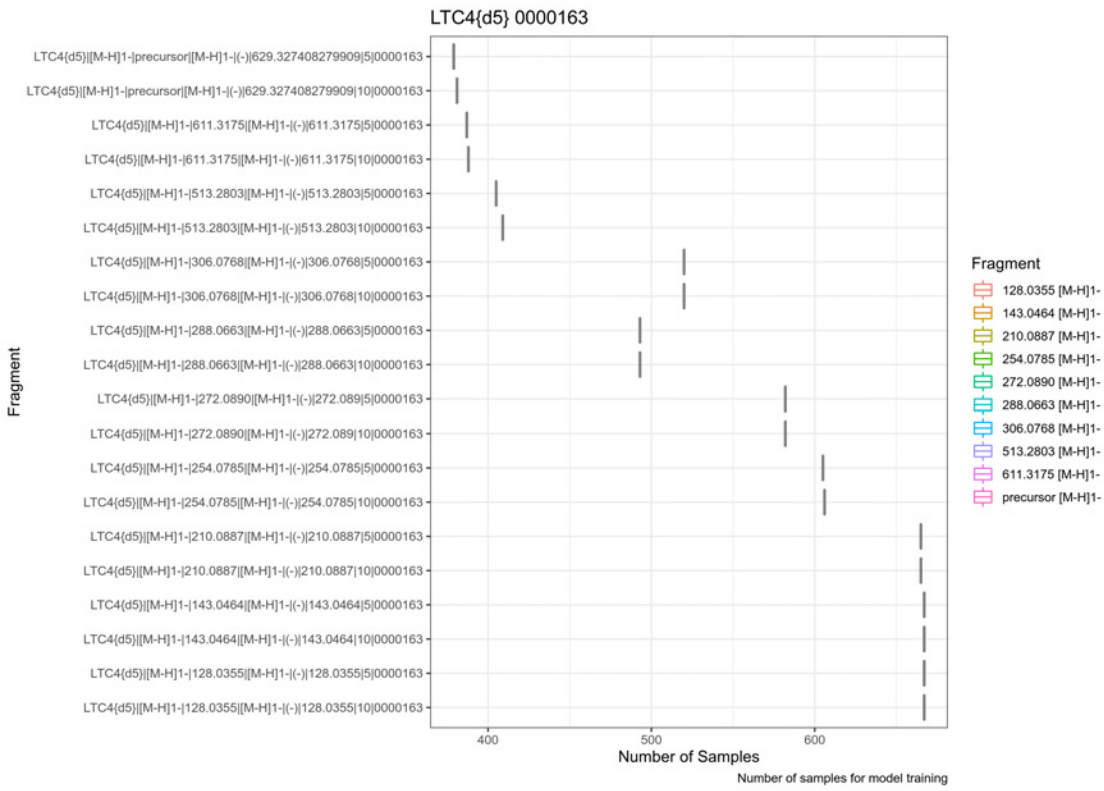


Figure 205. Number of samples used for training per combination Id

# 1.42. LTD4{d5} [M-H]1- 0000153

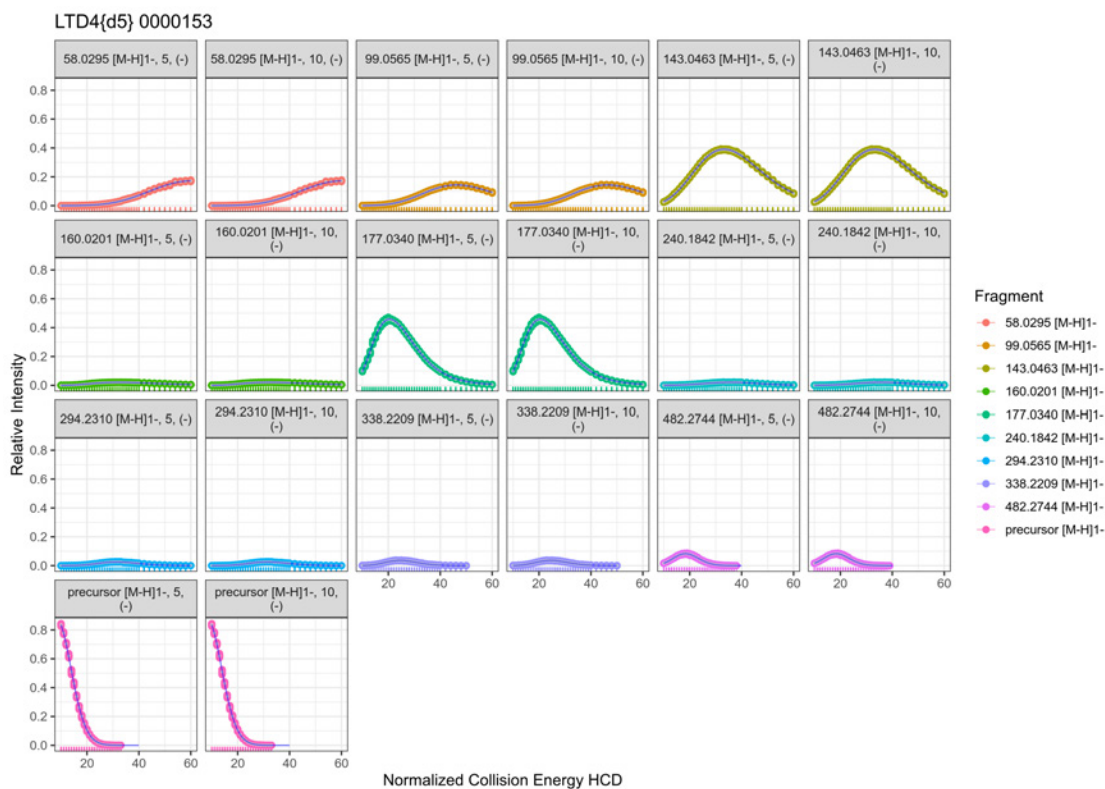


Figure 206. Nonlinear fit

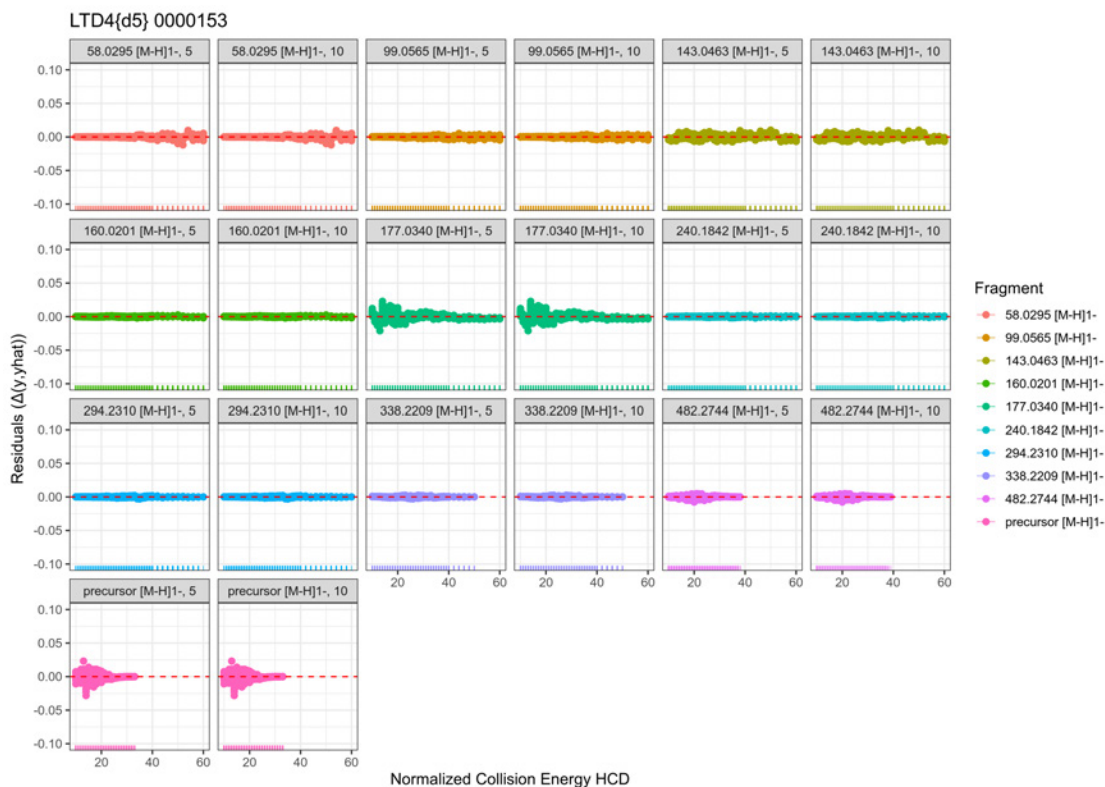


Figure 207. Residuals of nonlinear fit

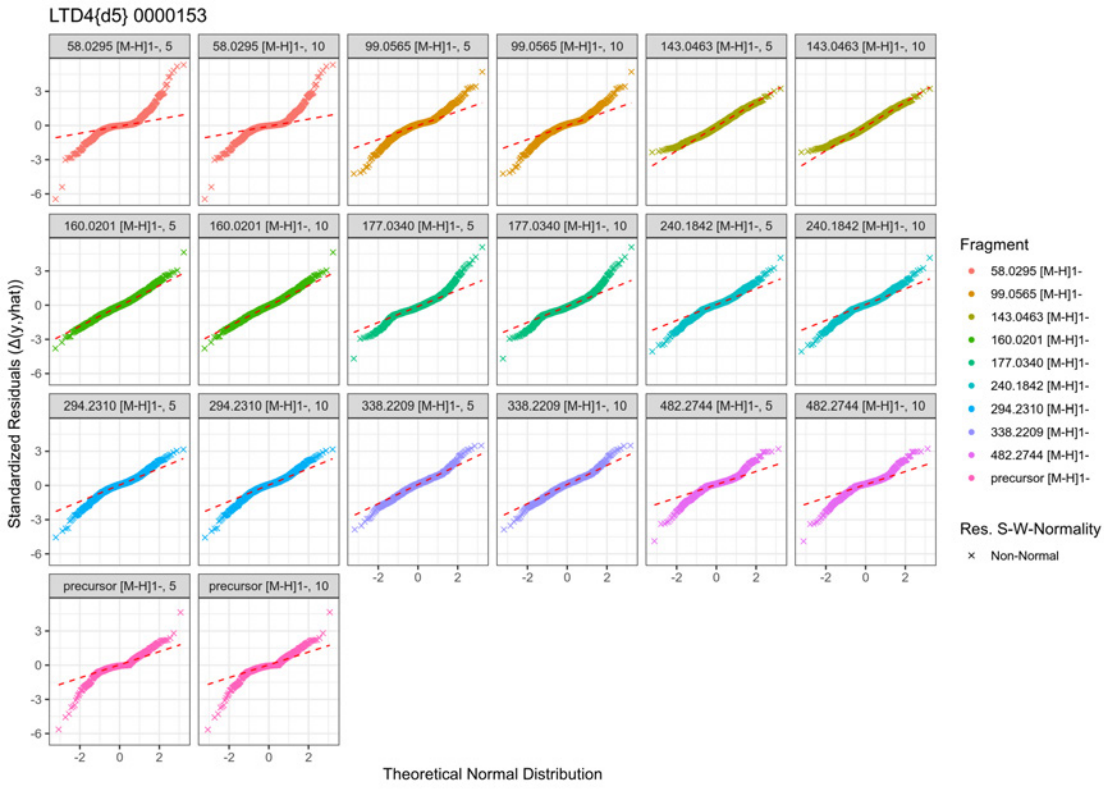


Figure 208. Quantile-quantile plot of residuals

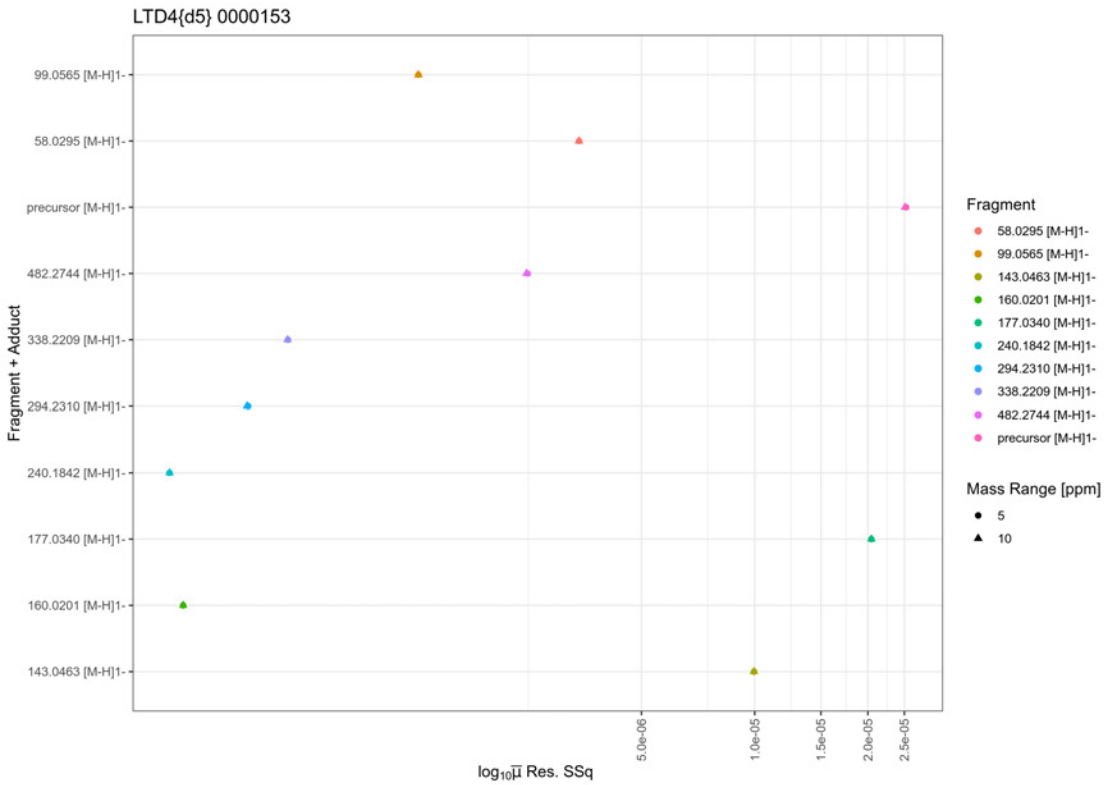


Figure 209. Normalized sum-of-squares of the residuals

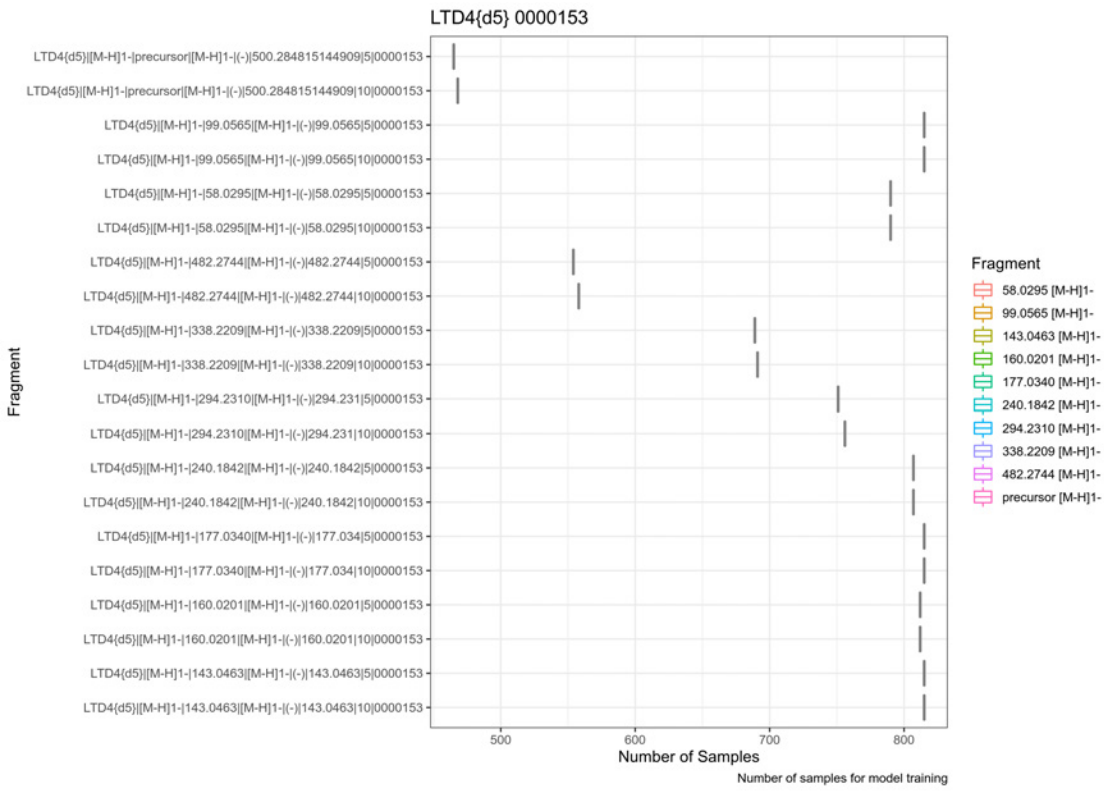


Figure 210. Number of samples used for training per combination Id

# 1.43. Maresin 1 [M-H]1- 0001319

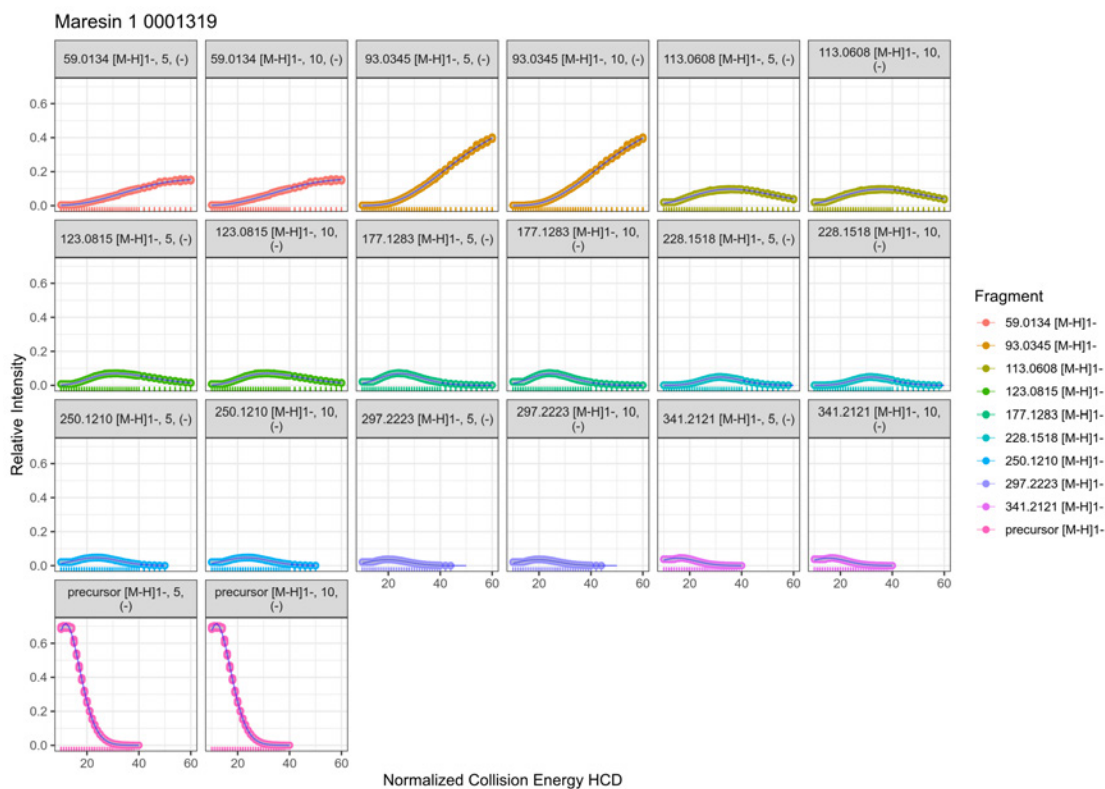


Figure 211. Nonlinear fit

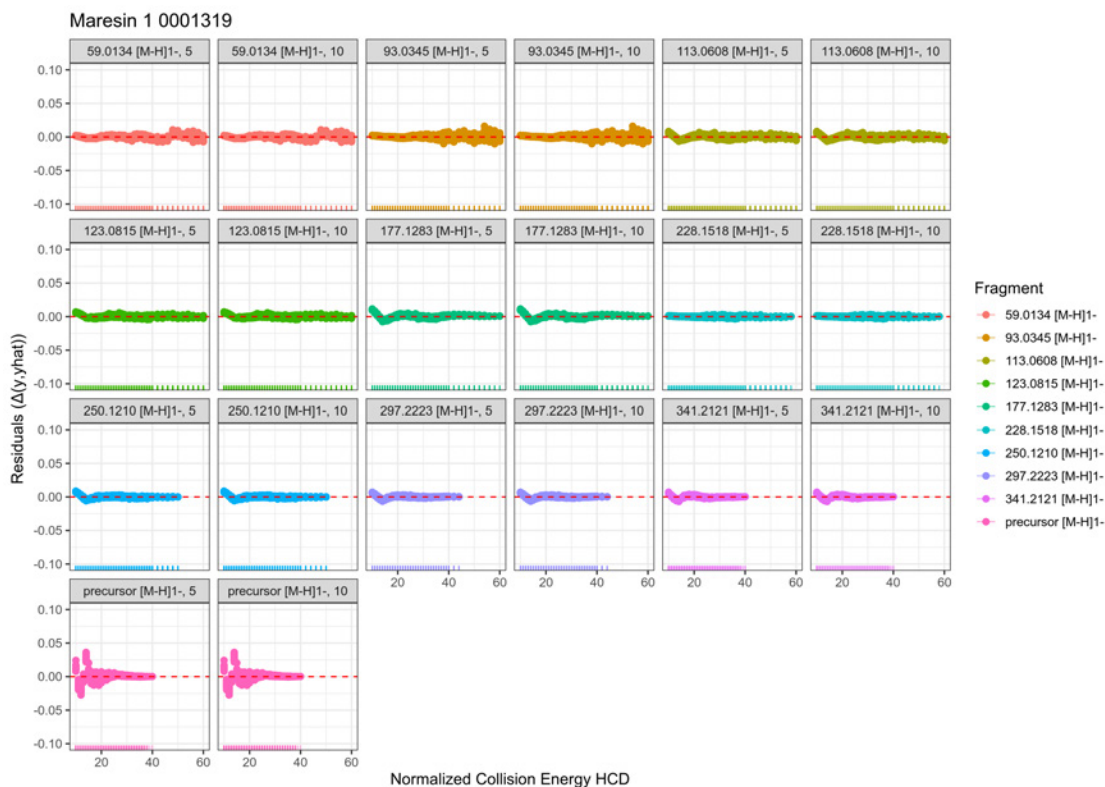


Figure 212. Residuals of nonlinear fit

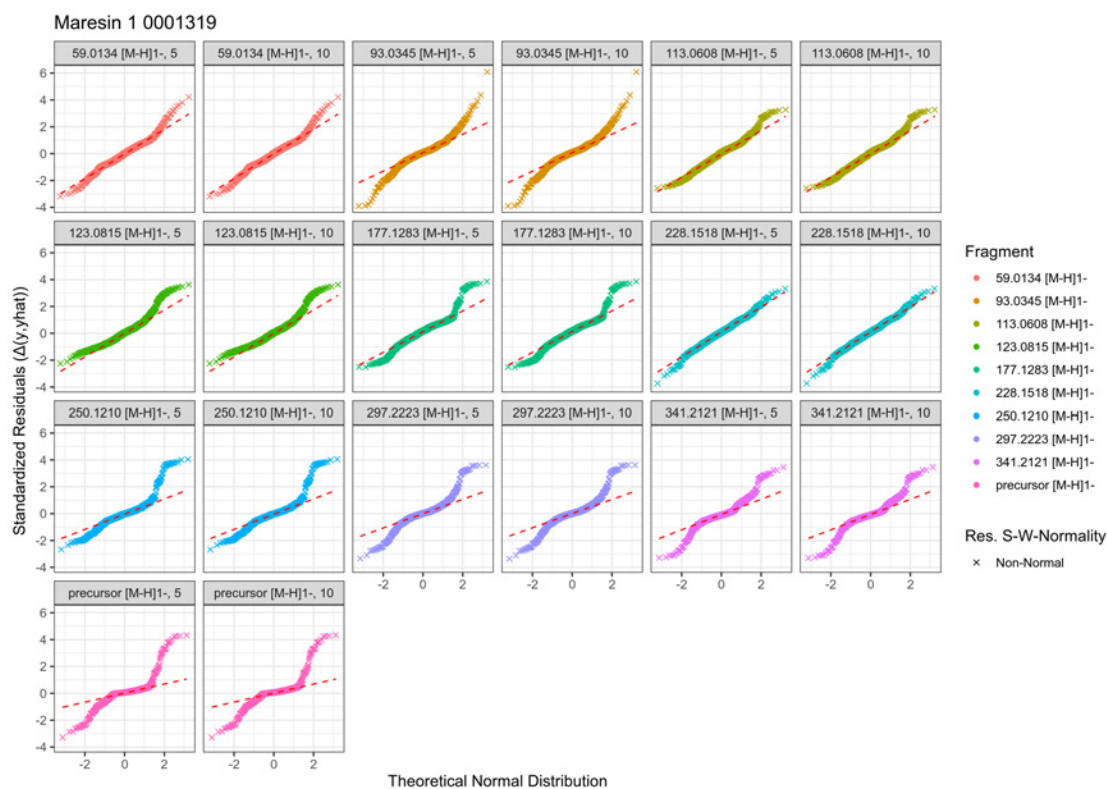


Figure 213. Quantile-quantile plot of residuals

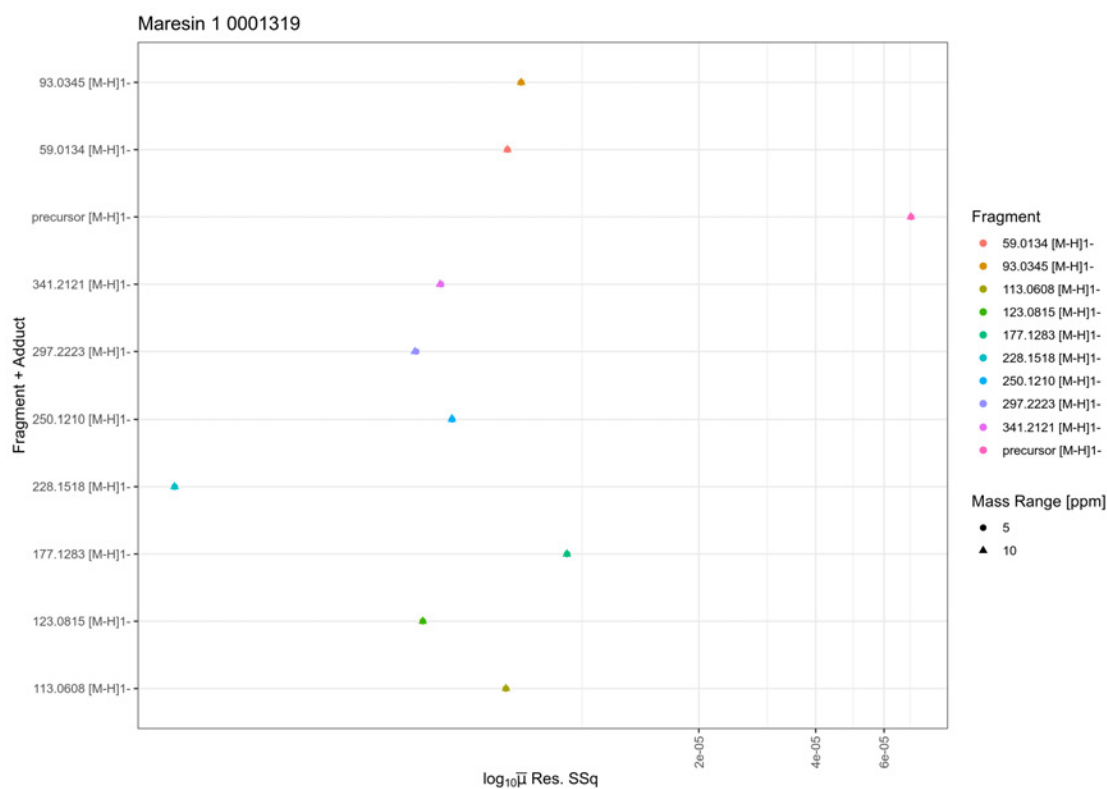


Figure 214. Normalized sum-of-squares of the residuals



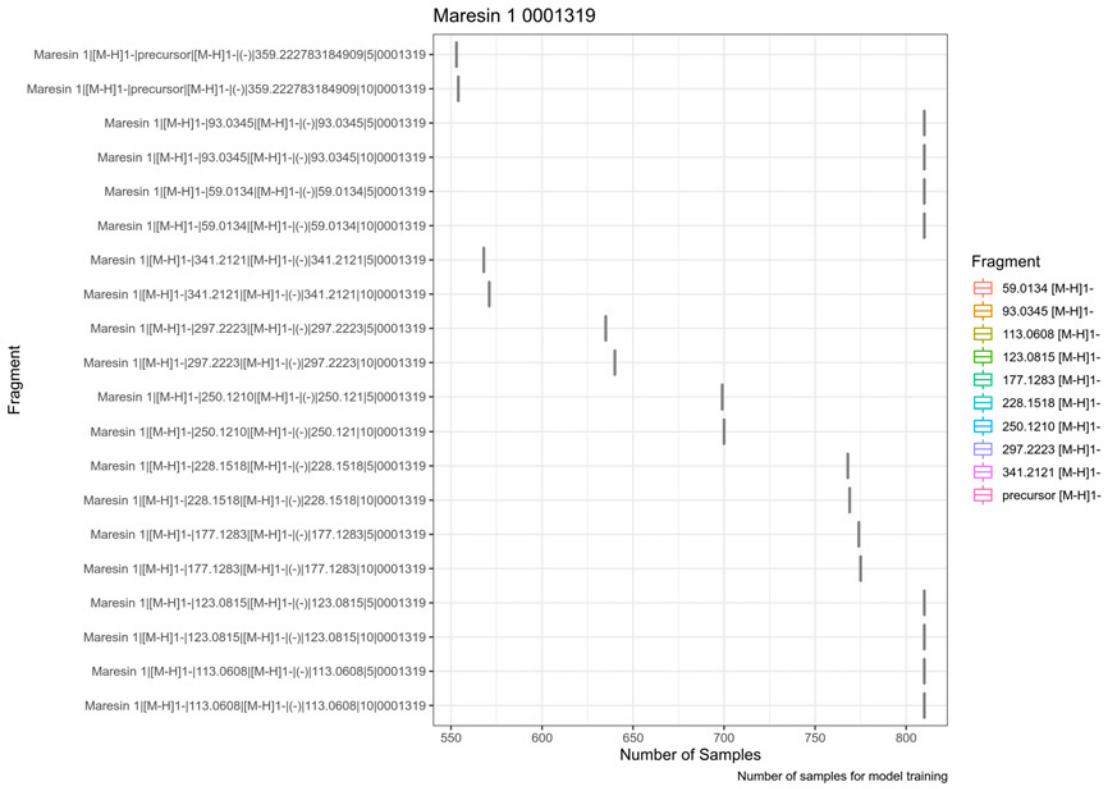


Figure 215. Number of samples used for training per combination Id

# 1.44. PGB2{d4} [M-H]1- 0000151

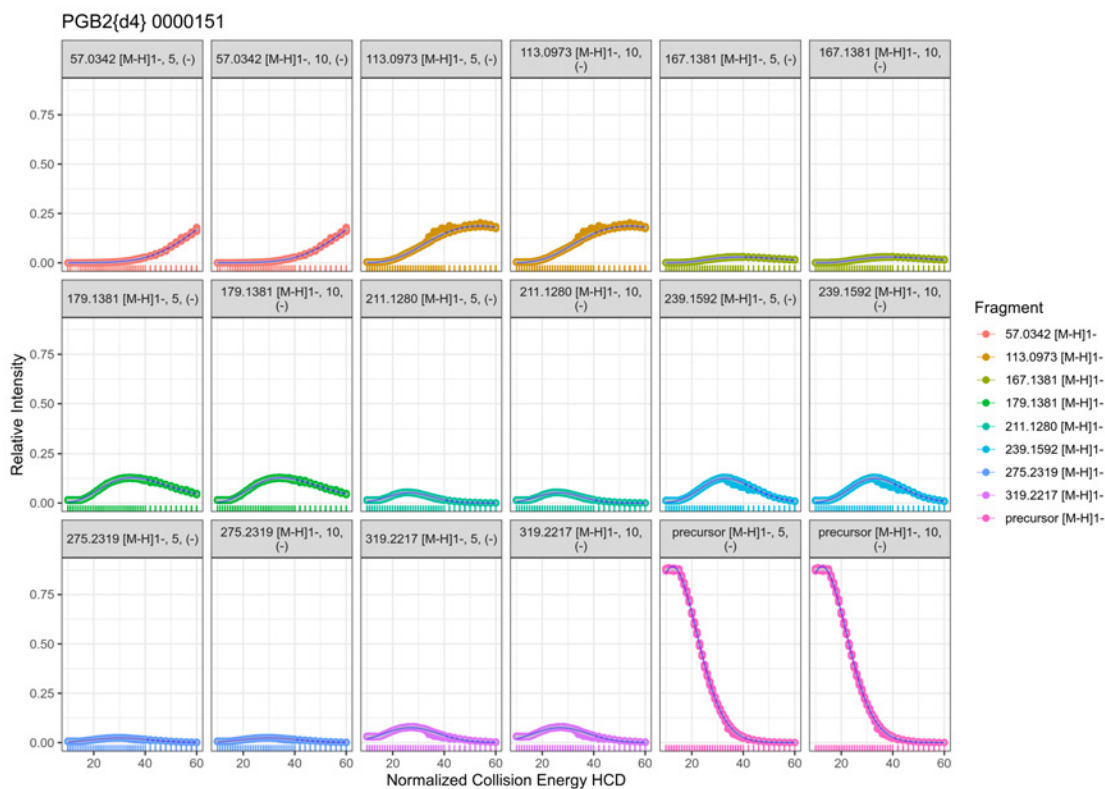


Figure 216. Nonlinear fit

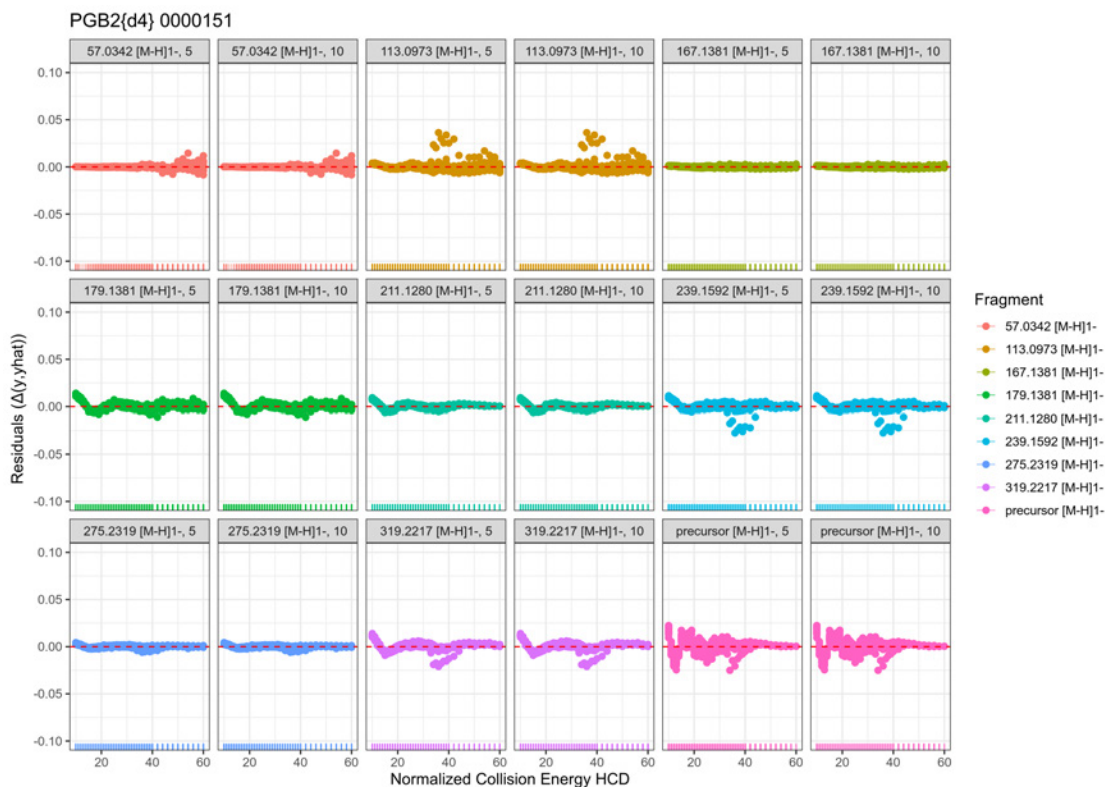


Figure 217. Residuals of nonlinear fit

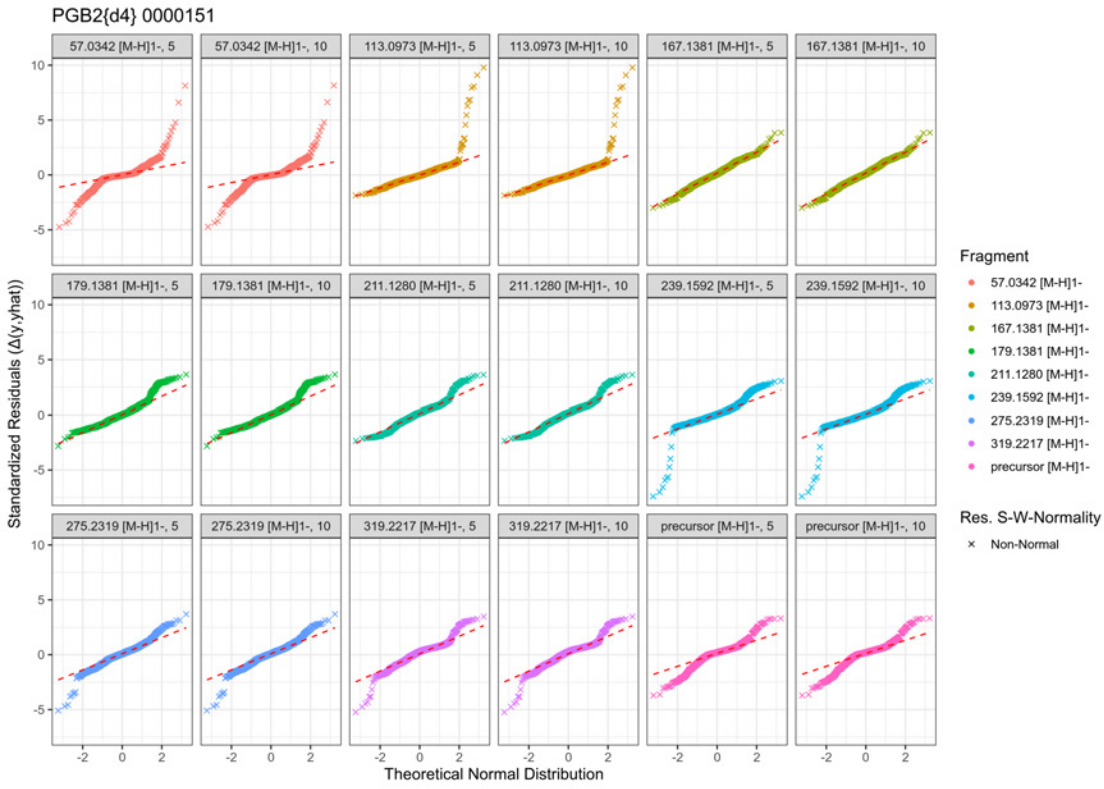


Figure 218. Quantile-quantile plot of residuals

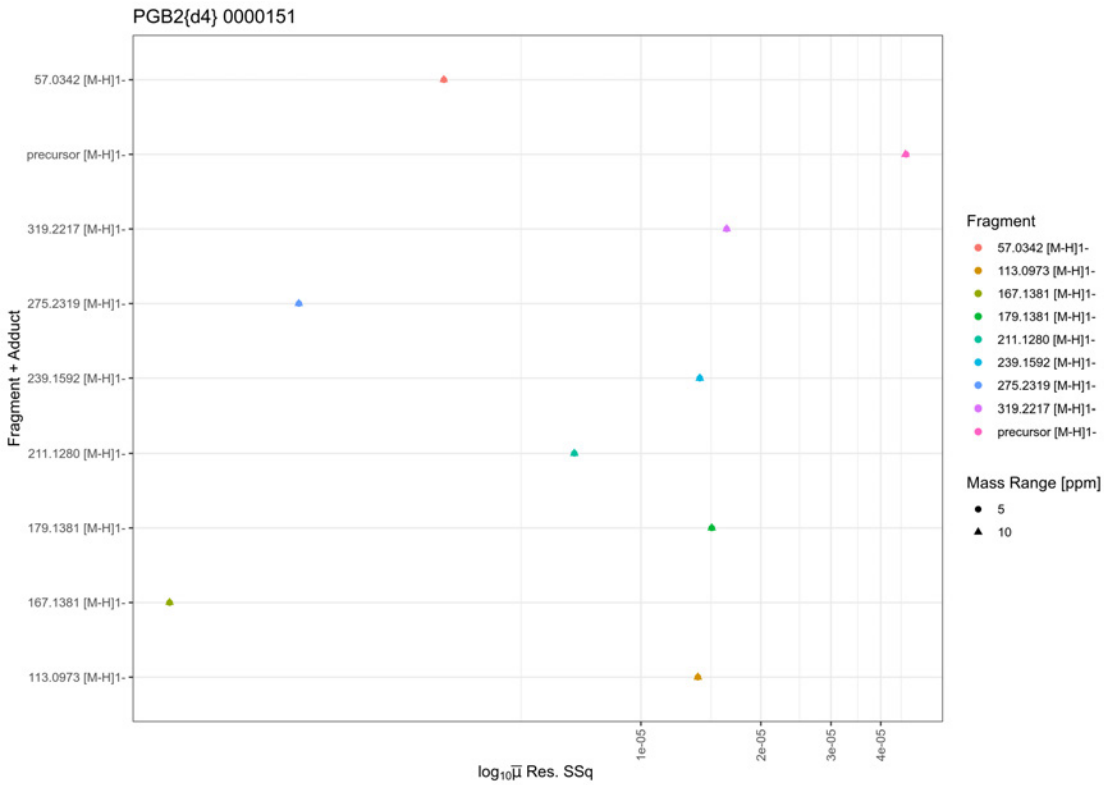


Figure 219. Normalized sum-of-squares of the residuals

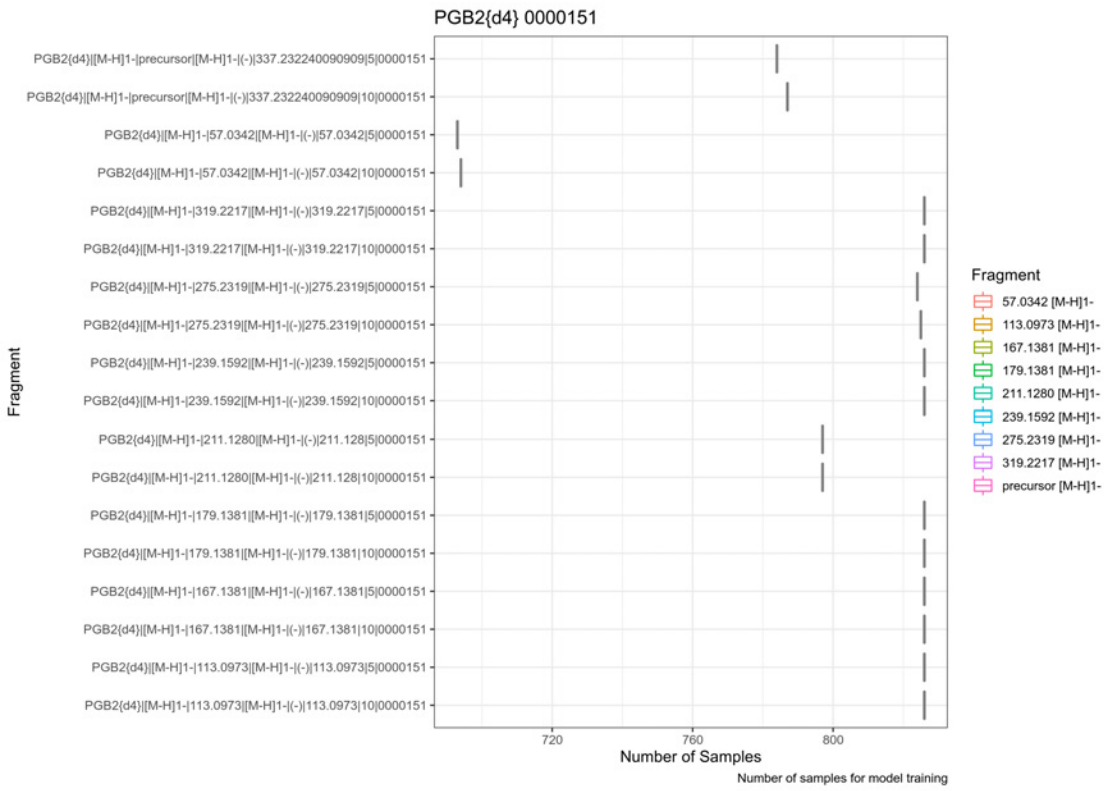


Figure 220. Number of samples used for training per combination Id

# 1.45. PGD2{d4} [M-H]1- 0001311

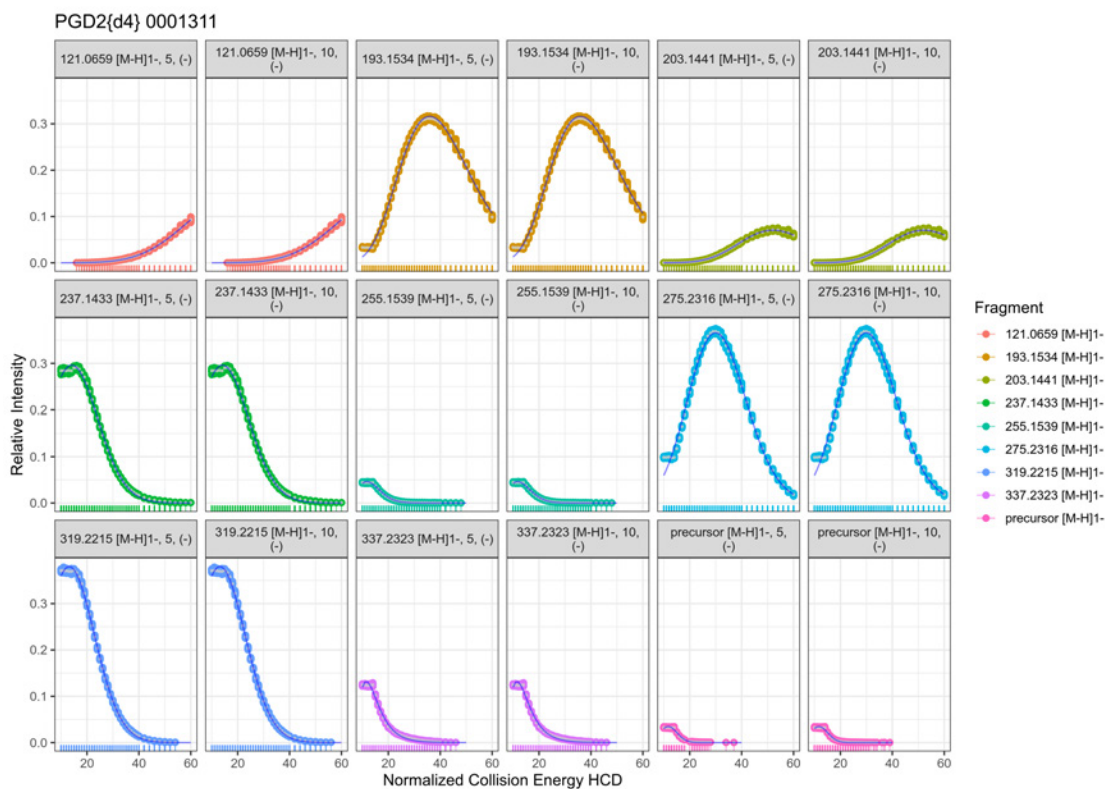


Figure 221. Nonlinear fit

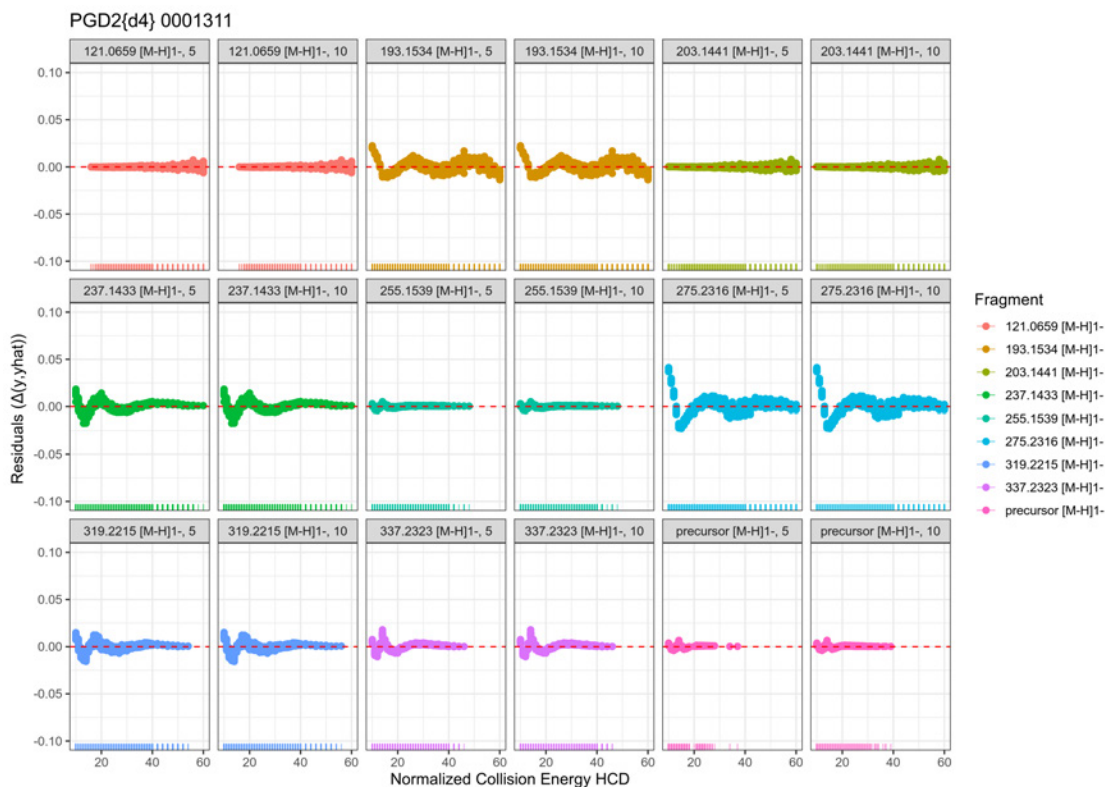


Figure 222. Residuals of nonlinear fit

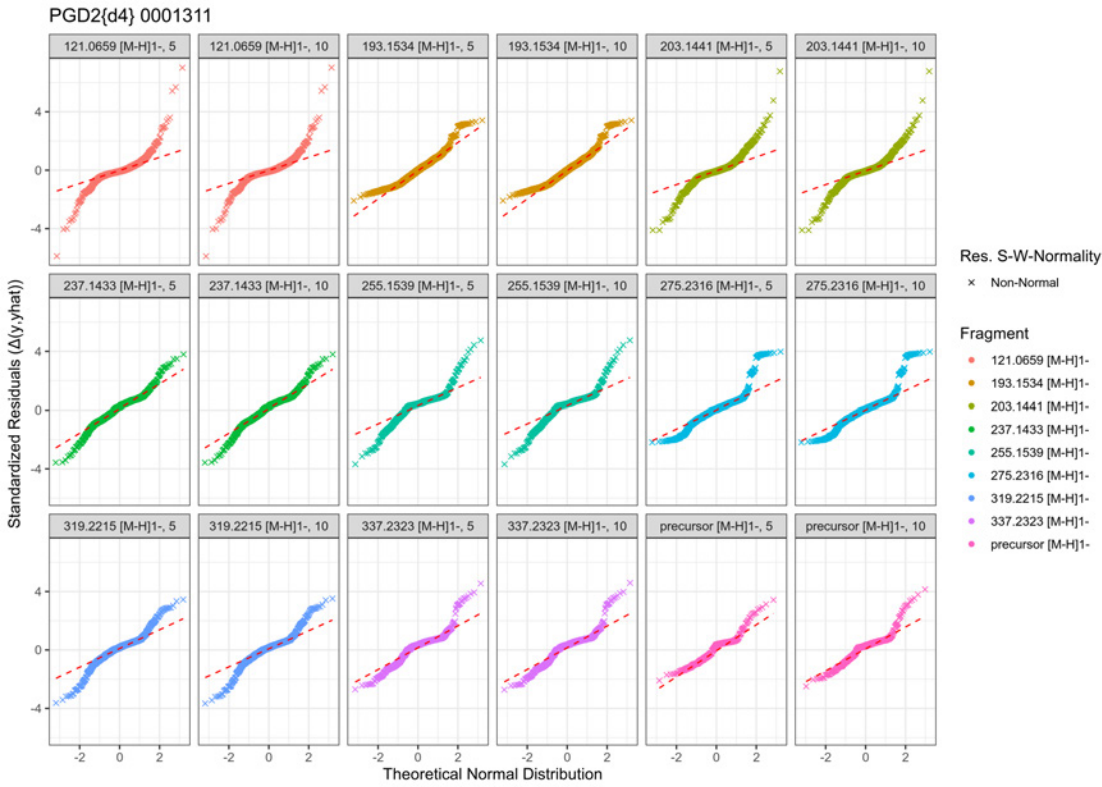


Figure 223. Quantile-quantile plot of residuals

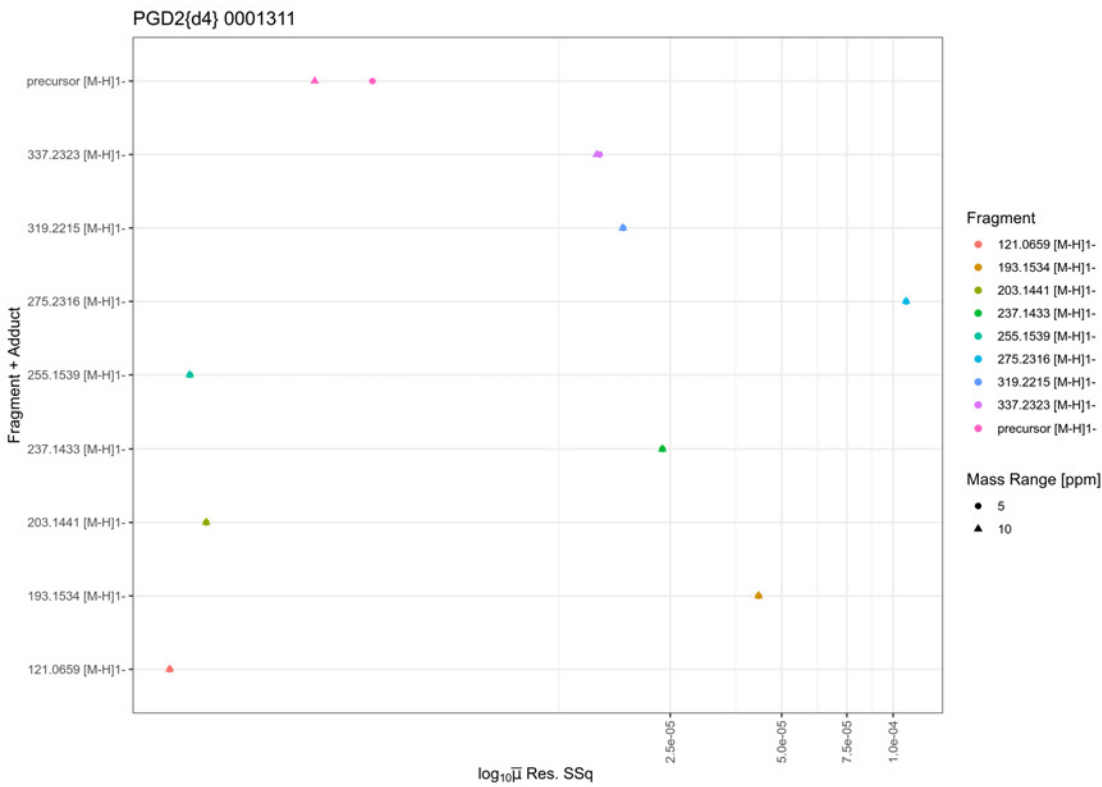


Figure 224. Normalized sum-of-squares of the residuals



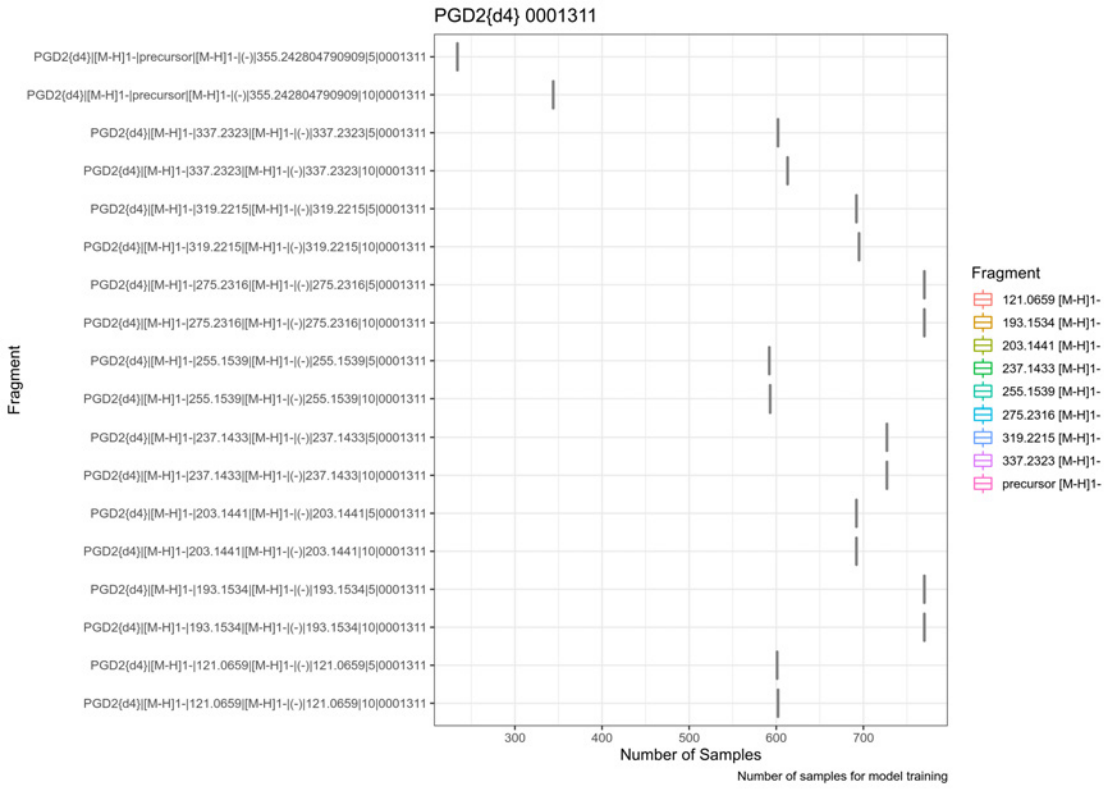


Figure 225. Number of samples used for training per combination Id

# 1.46. PGE2{d4} [M-H]1- 0001313

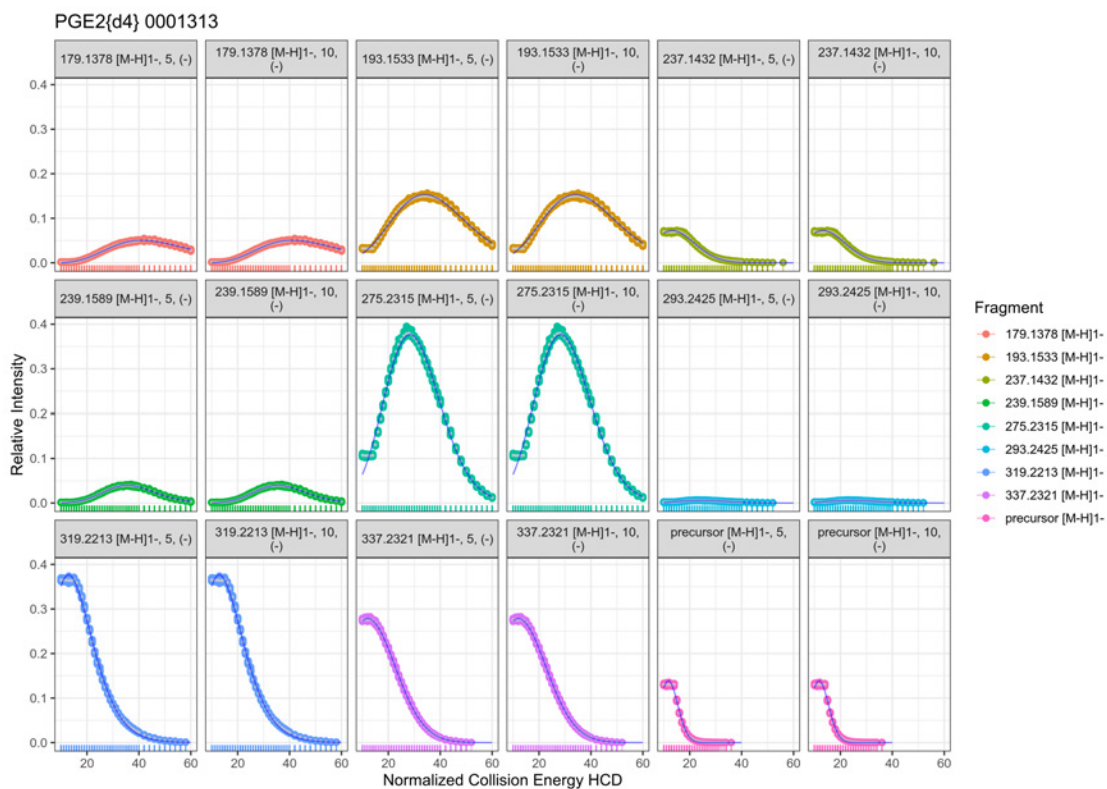


Figure 226. Nonlinear fit

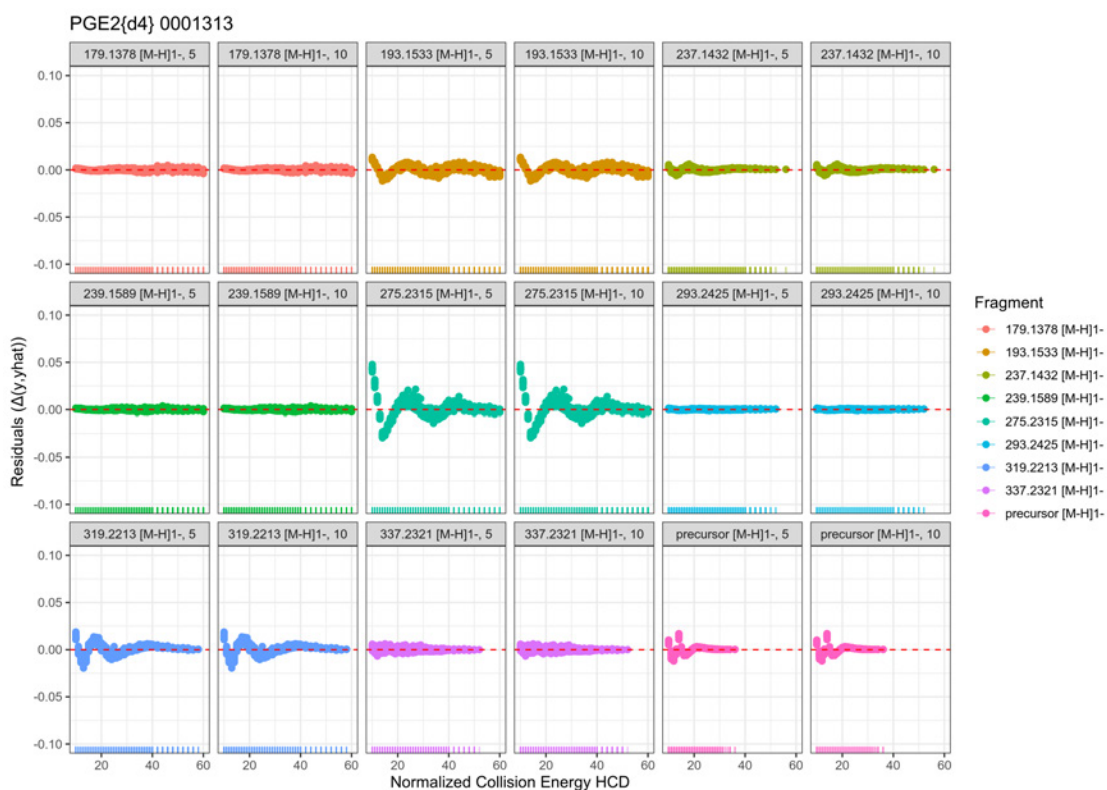


Figure 227. Residuals of nonlinear fit

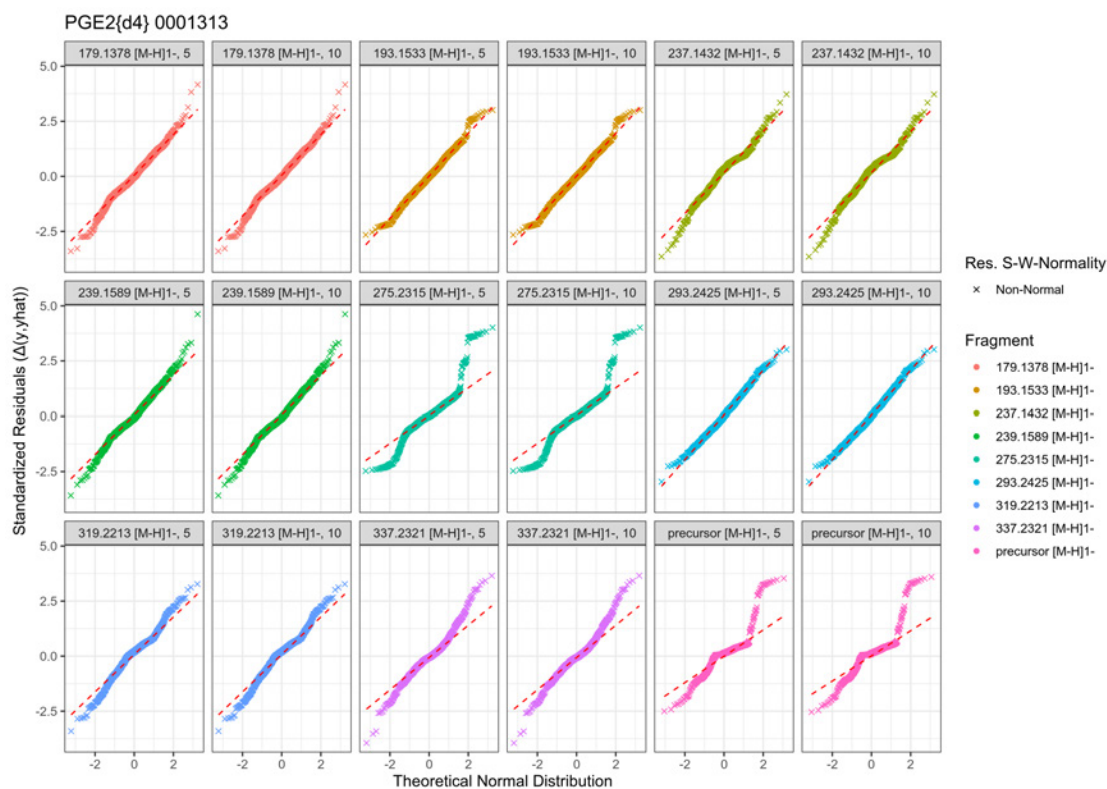


Figure 228. Quantile-quantile plot of residuals

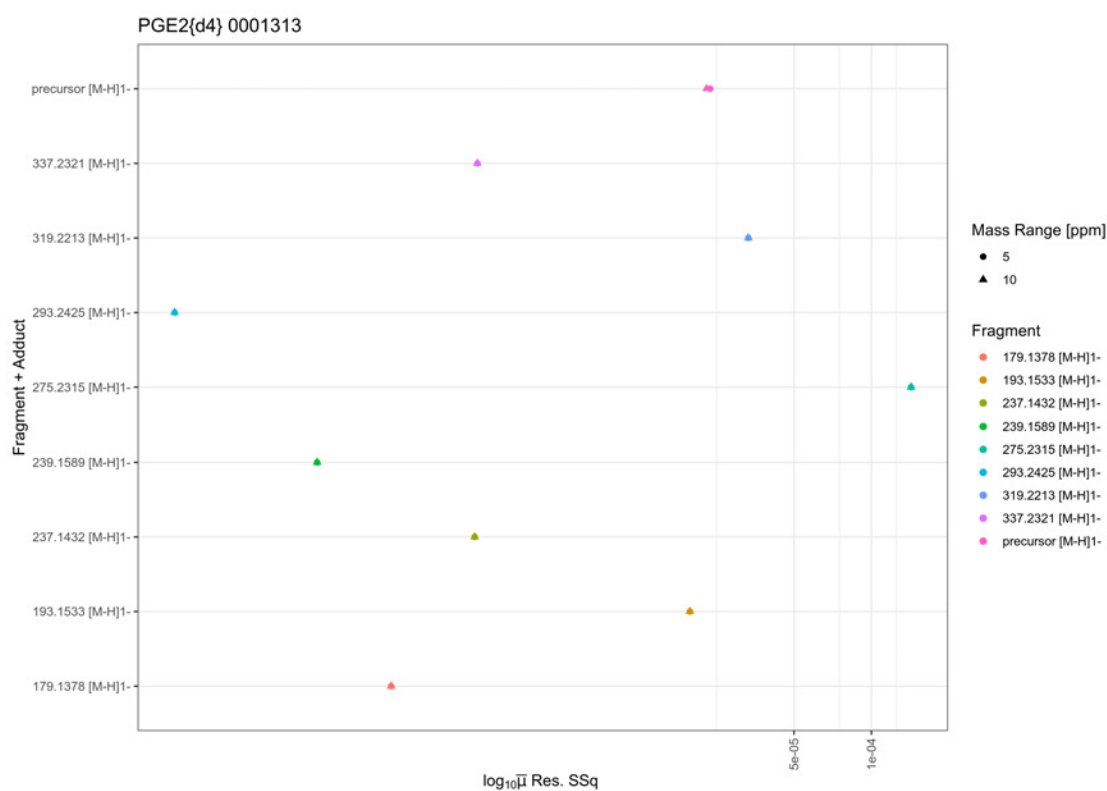


Figure 229. Normalized sum-of-squares of the residuals

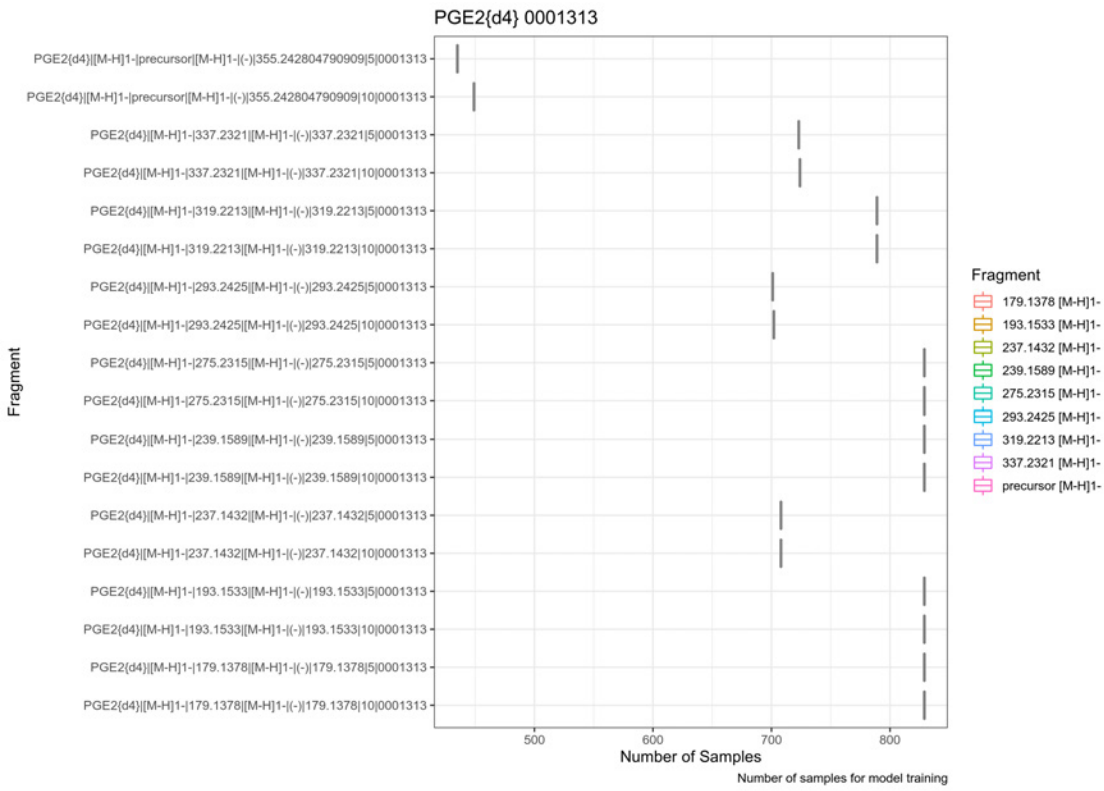


Figure 230. Number of samples used for training per combination Id

# 1.47. PGE2{d9} [M-H]1- 0001321

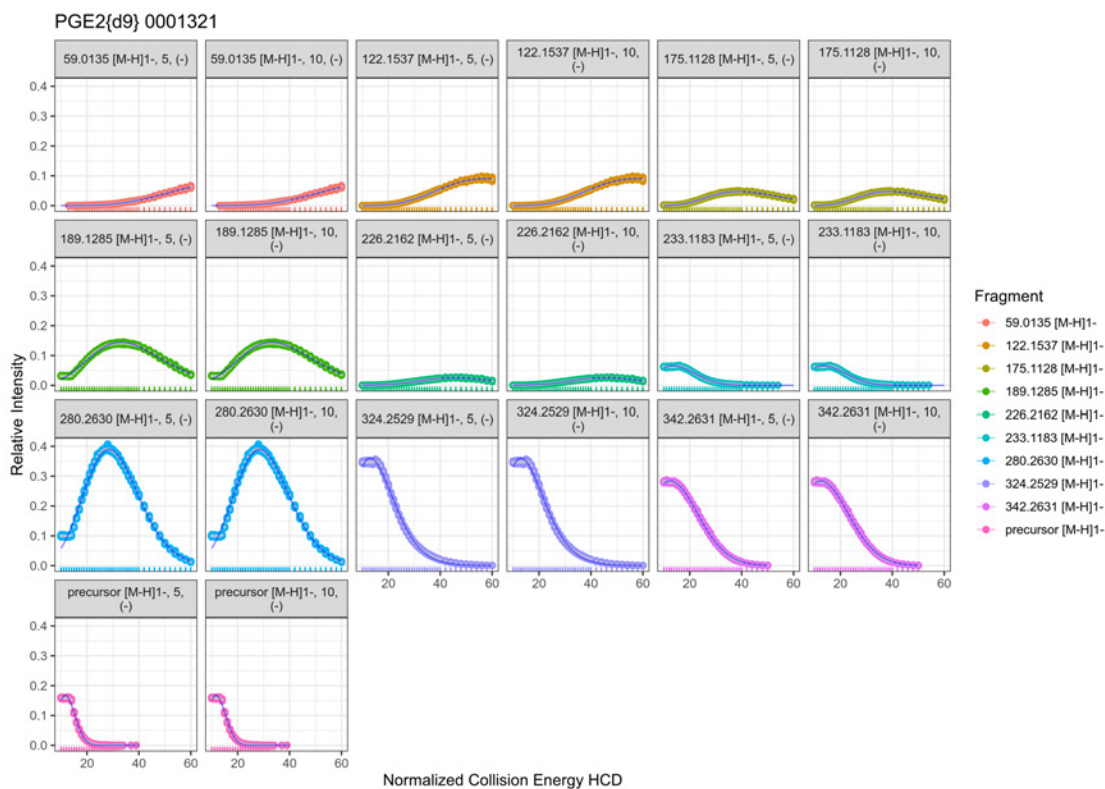


Figure 231. Nonlinear fit

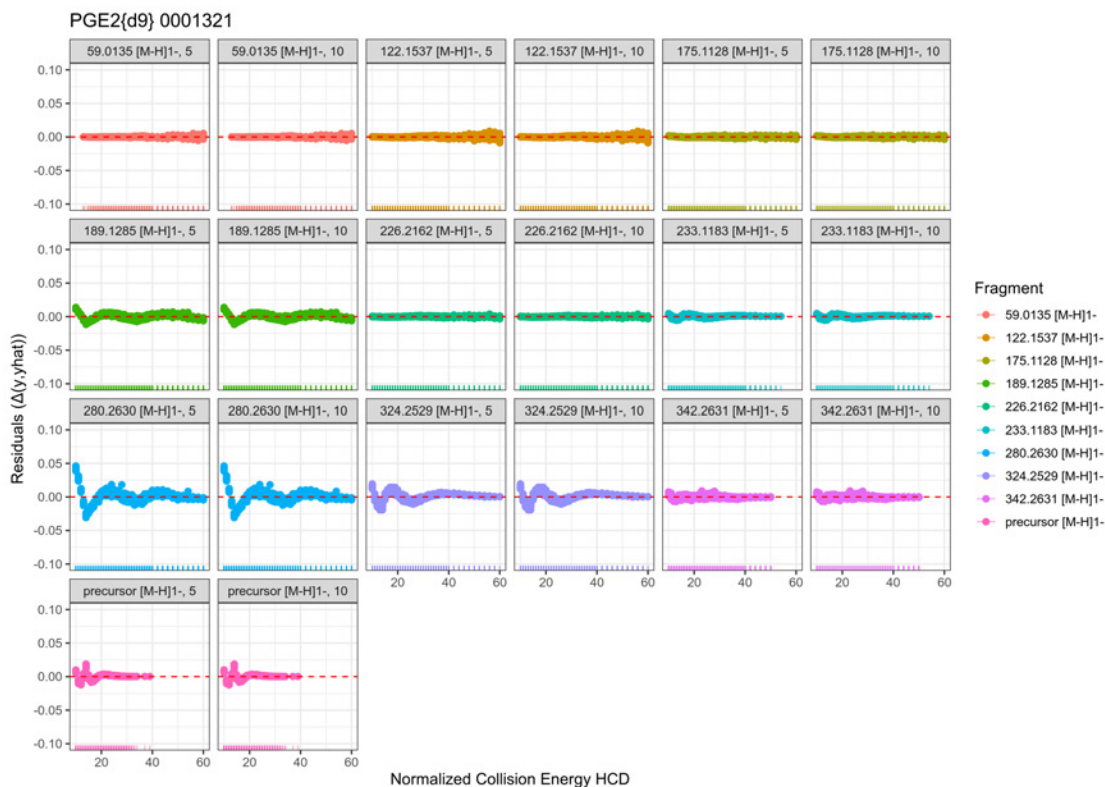


Figure 232. Residuals of nonlinear fit

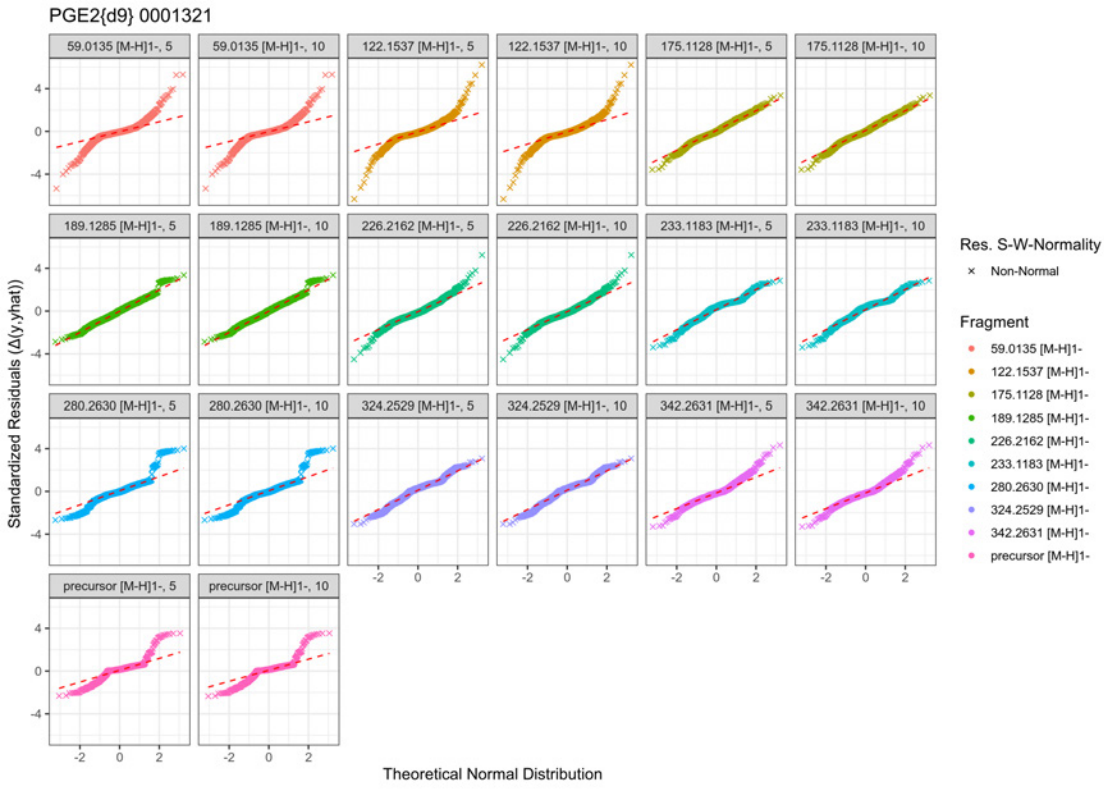


Figure 233. Quantile-quantile plot of residuals

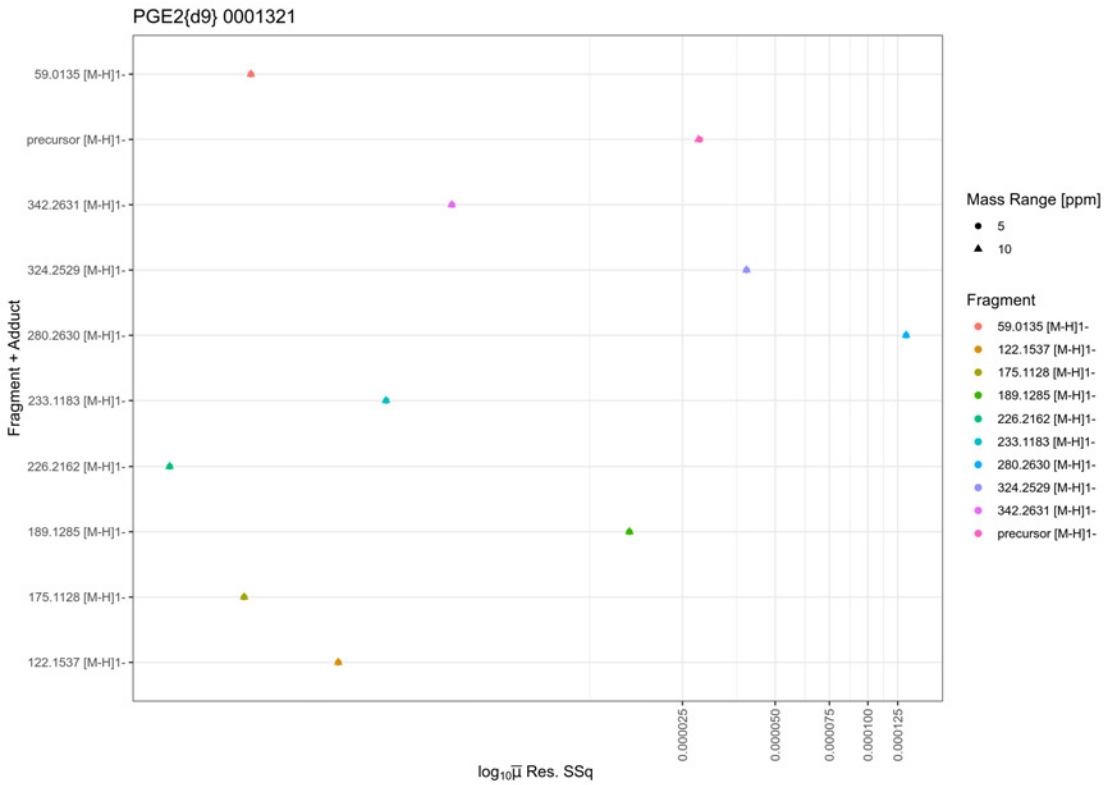


Figure 234. Normalized sum-of-squares of the residuals



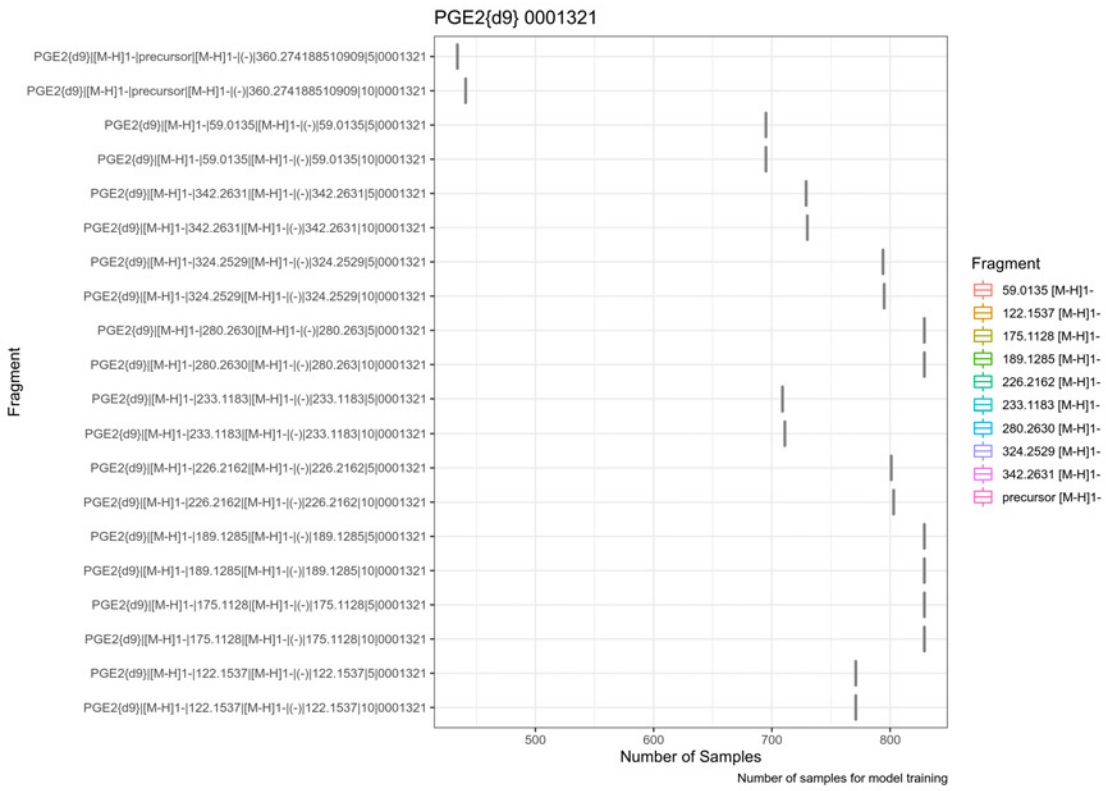


Figure 235. Number of samples used for training per combination Id

# 1.48. PGF2alpha{d4} [M-H]1- 0000125

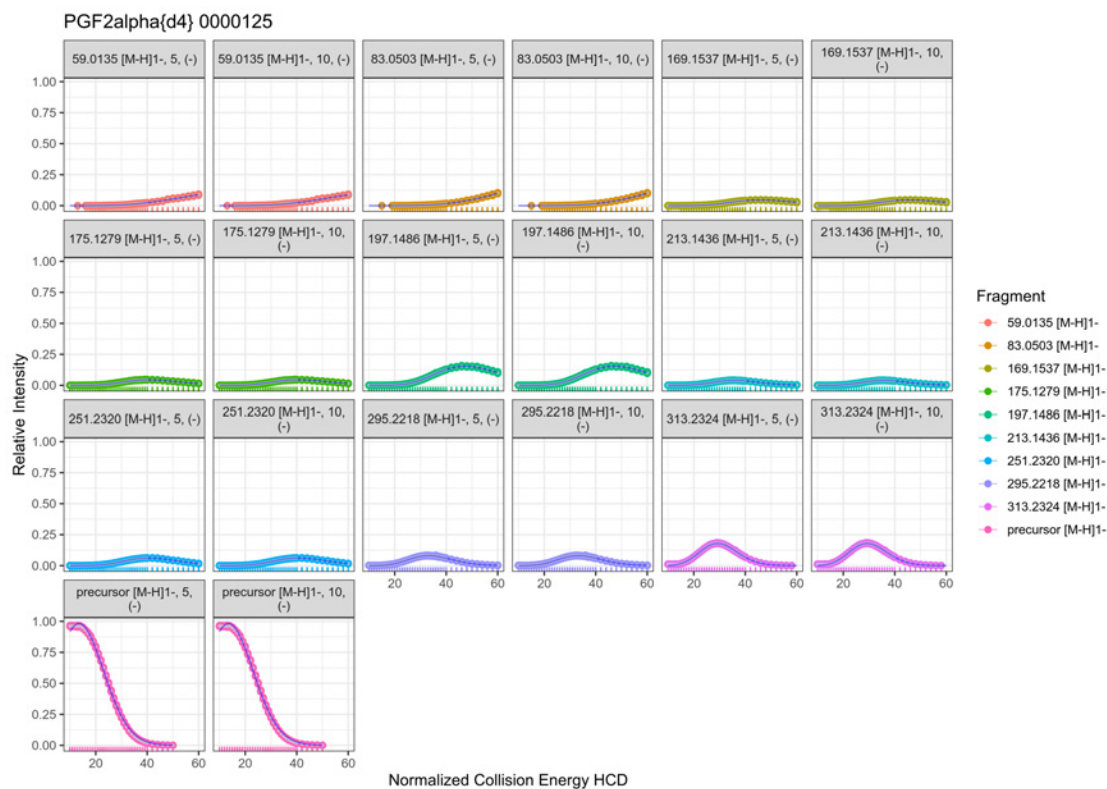


Figure 236. Nonlinear fit

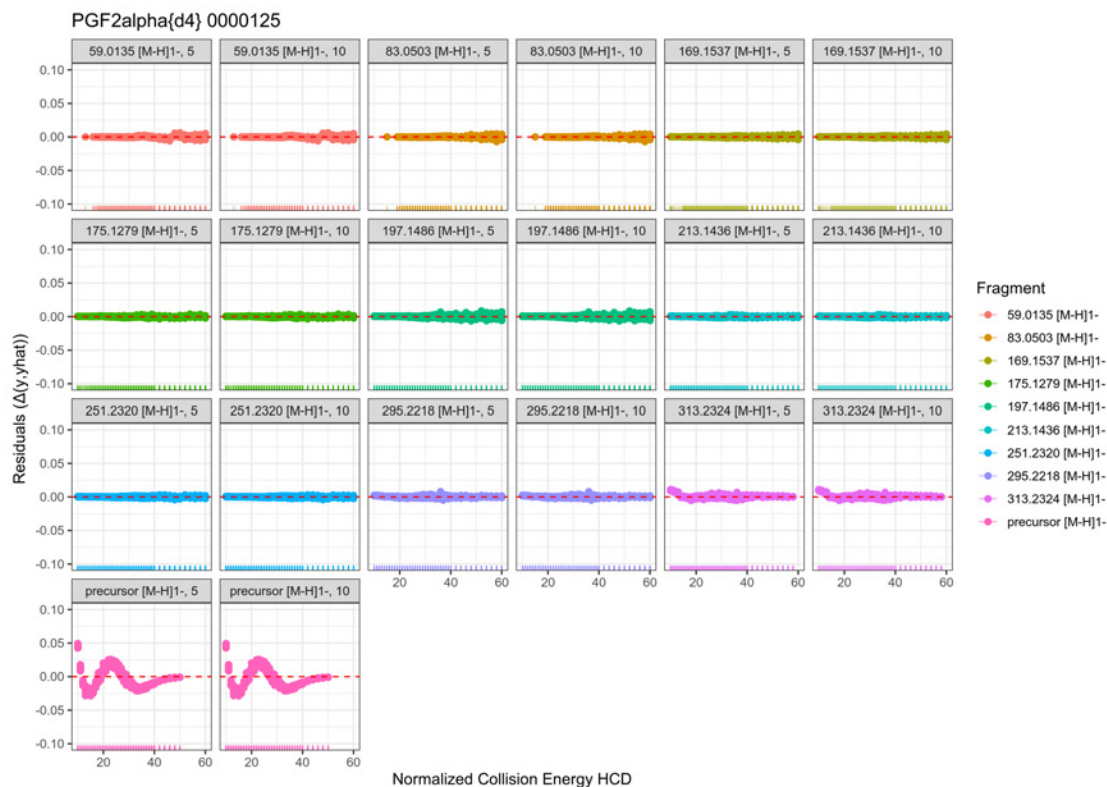


Figure 237. Residuals of nonlinear fit

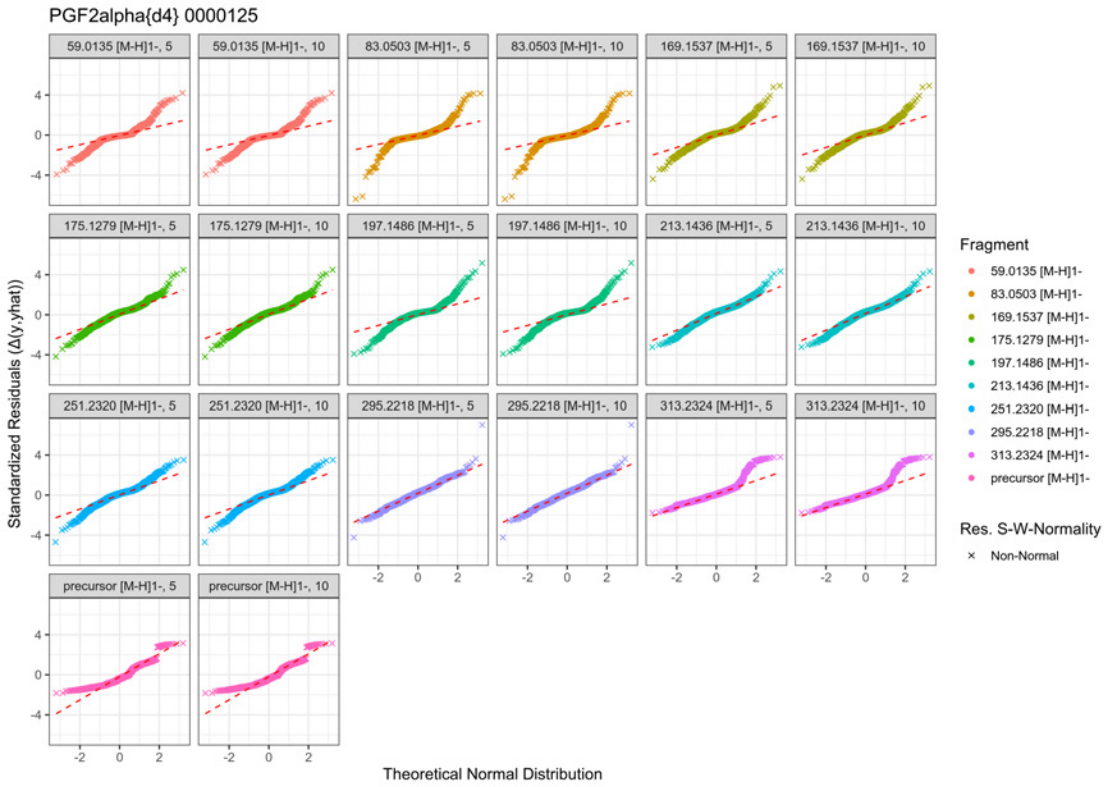


Figure 238. Quantile-quantile plot of residuals

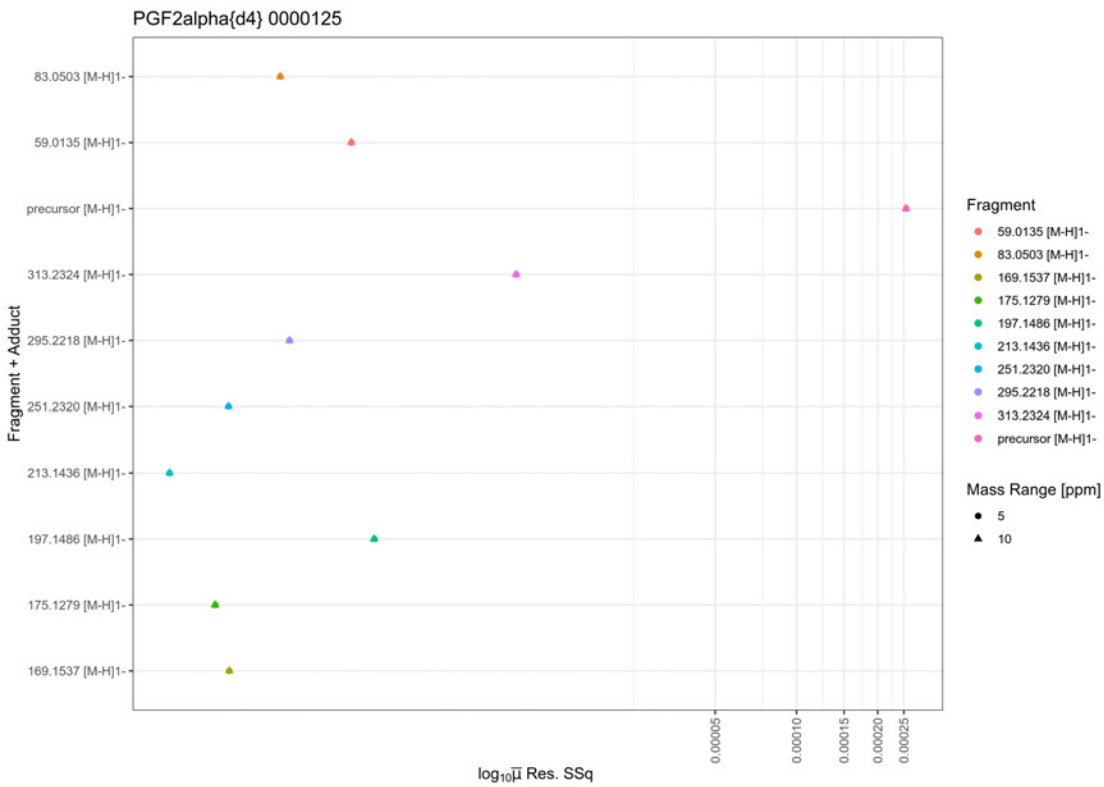


Figure 239. Normalized sum-of-squares of the residuals

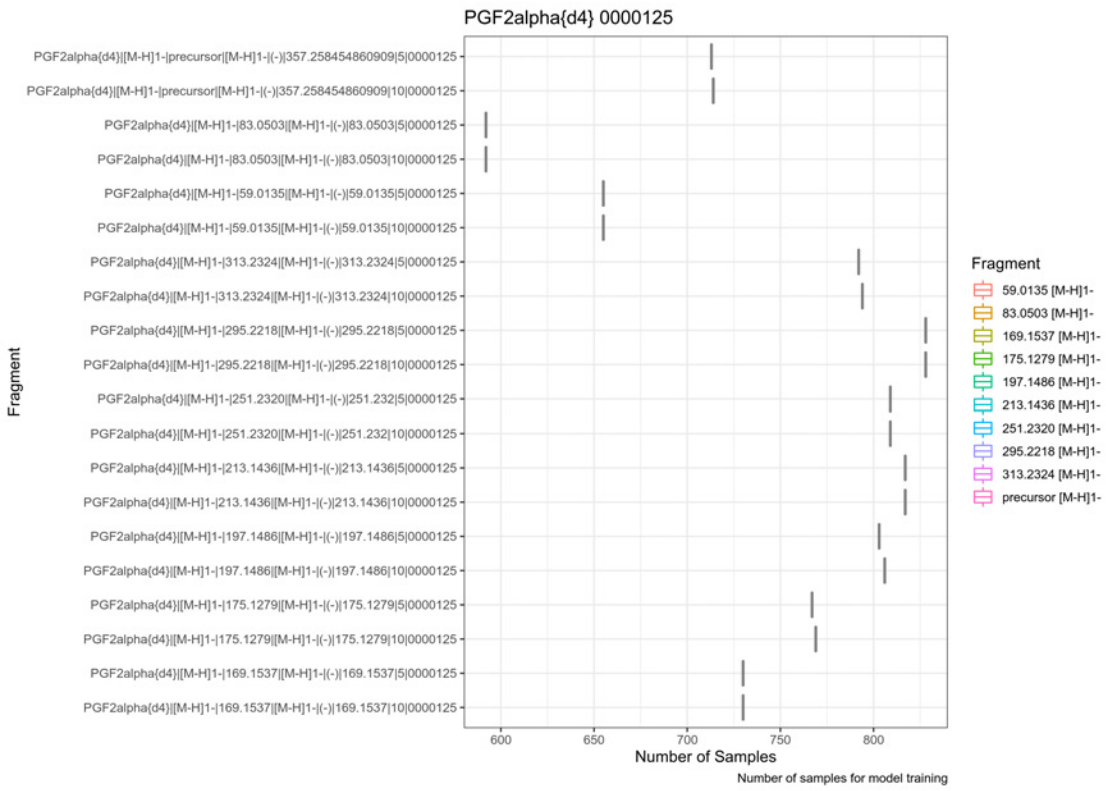


Figure 240. Number of samples used for training per combination Id

# 1.49. PGI2 [M-H]1- 0000127

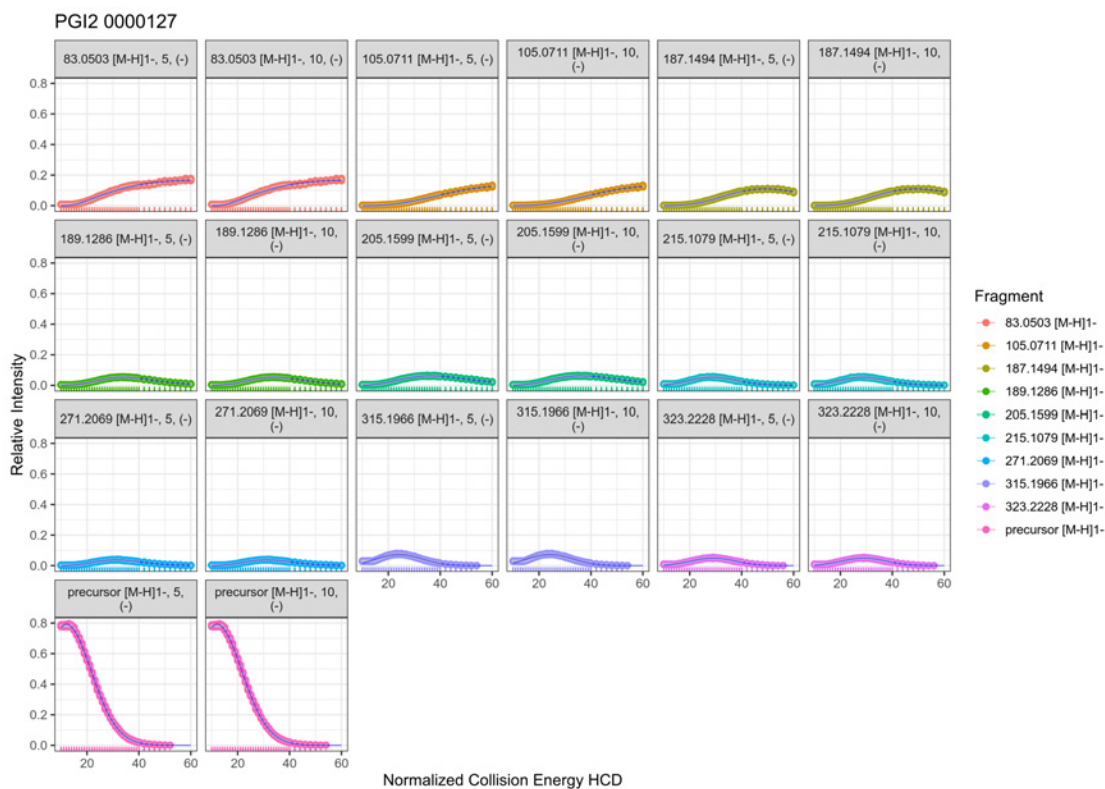


Figure 241. Nonlinear fit

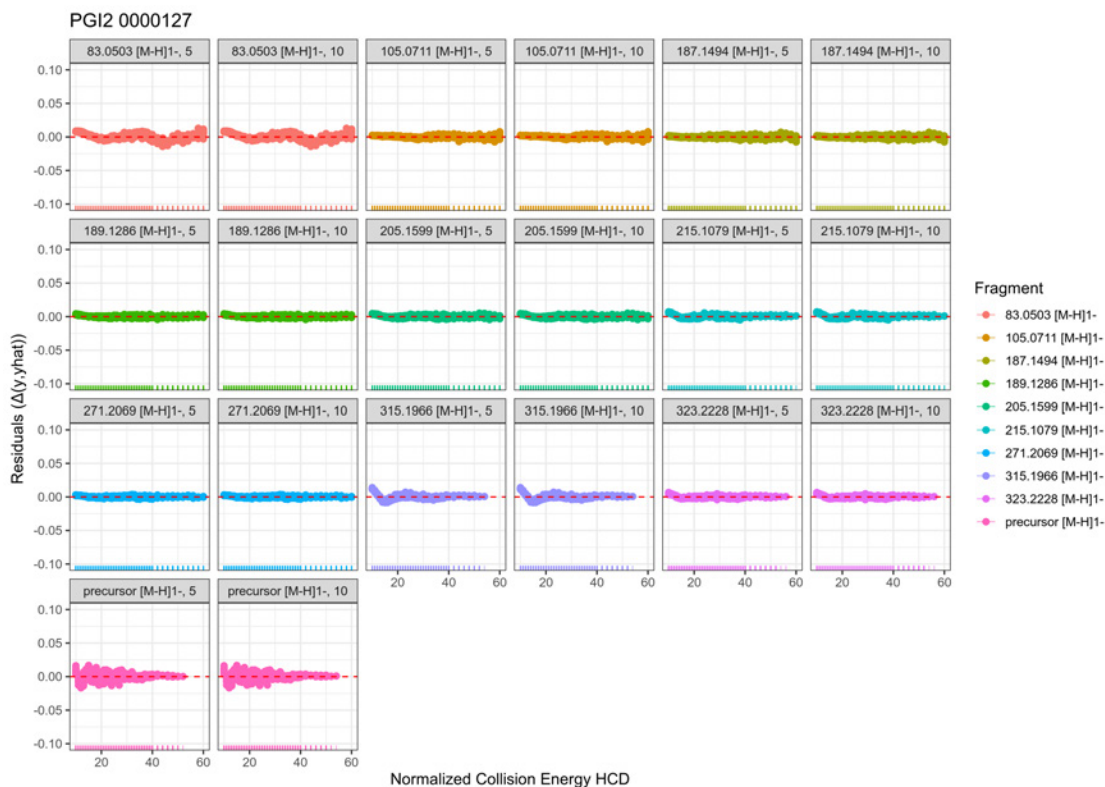


Figure 242. Residuals of nonlinear fit

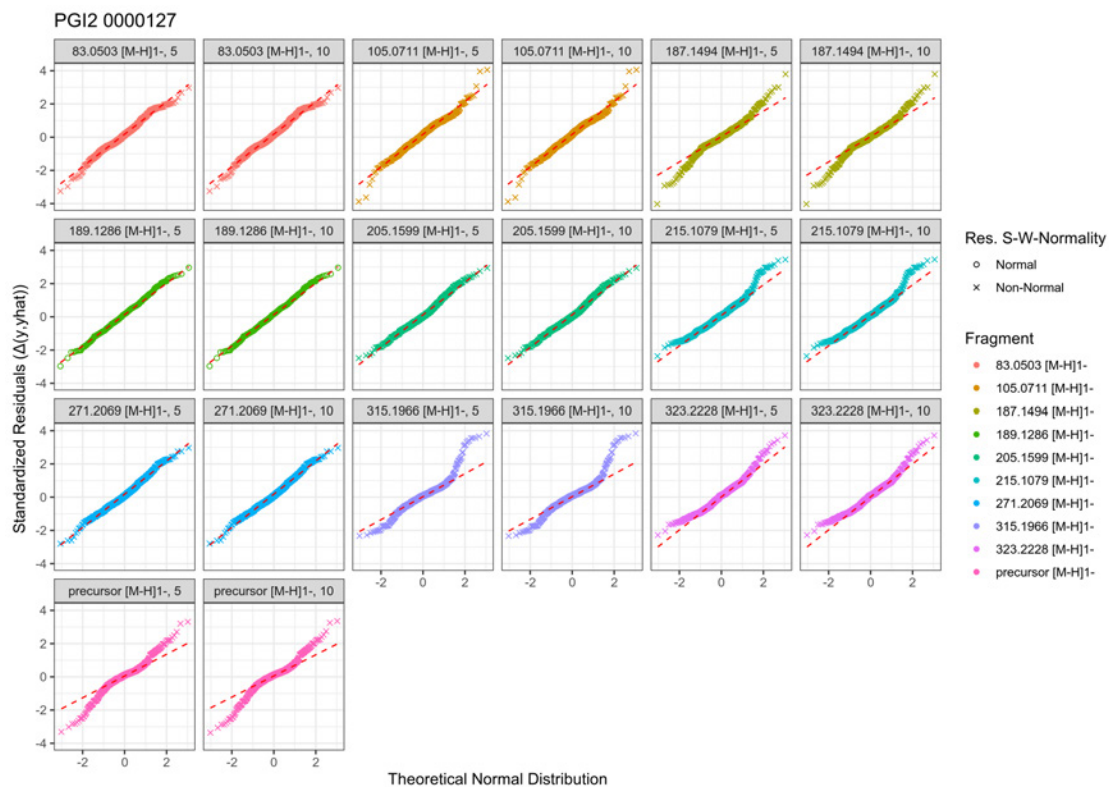


Figure 243. Quantile-quantile plot of residuals

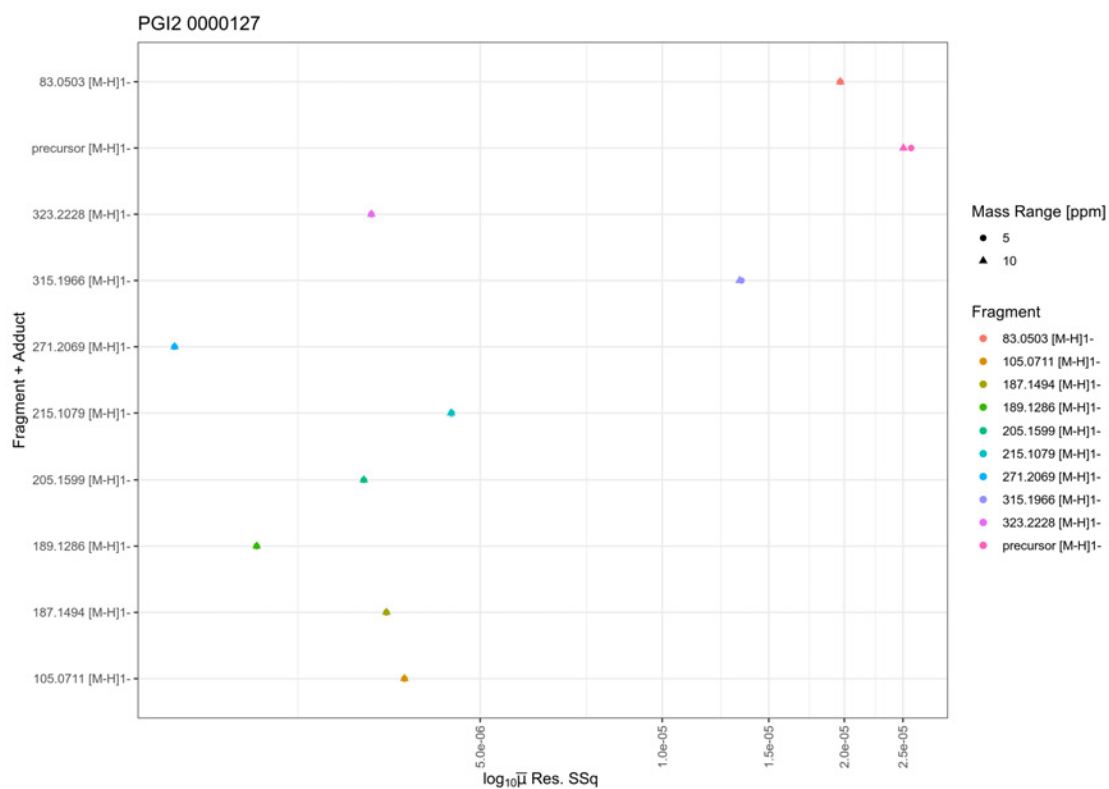


Figure 244. Normalized sum-of-squares of the residuals



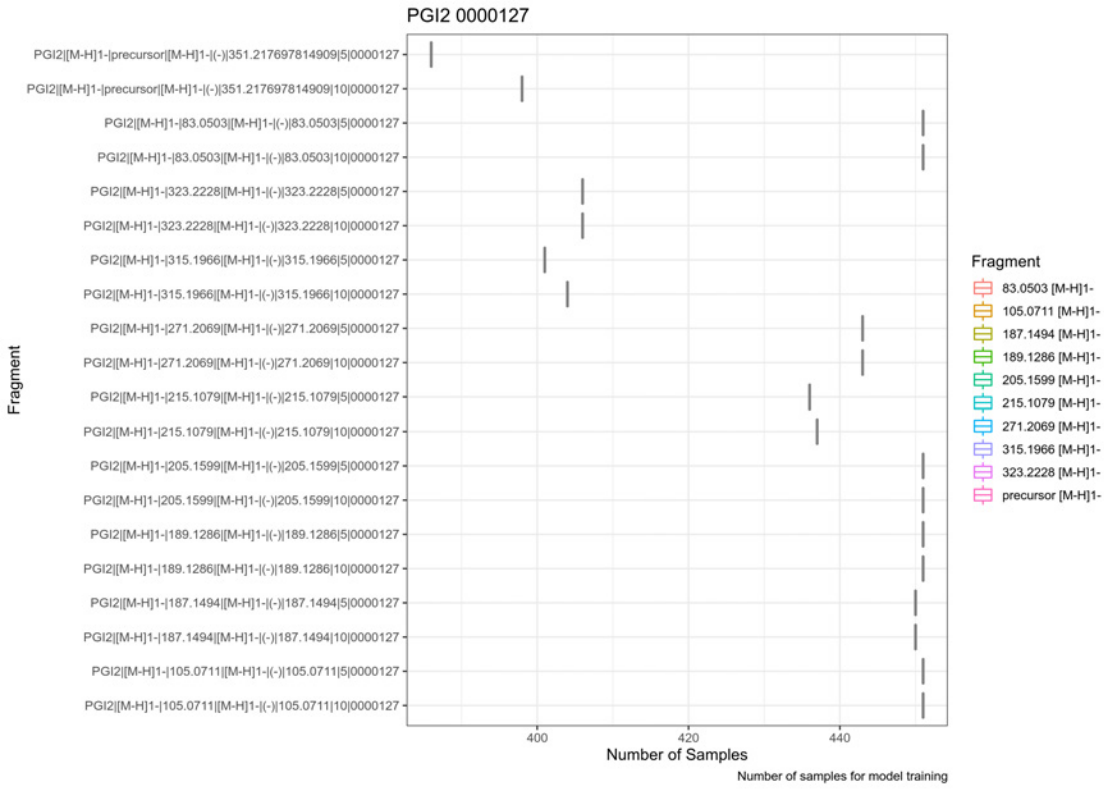


Figure 245. Number of samples used for training per combination Id

# 1.50. Resolvin D1{d5} [M-H]1- 0001333

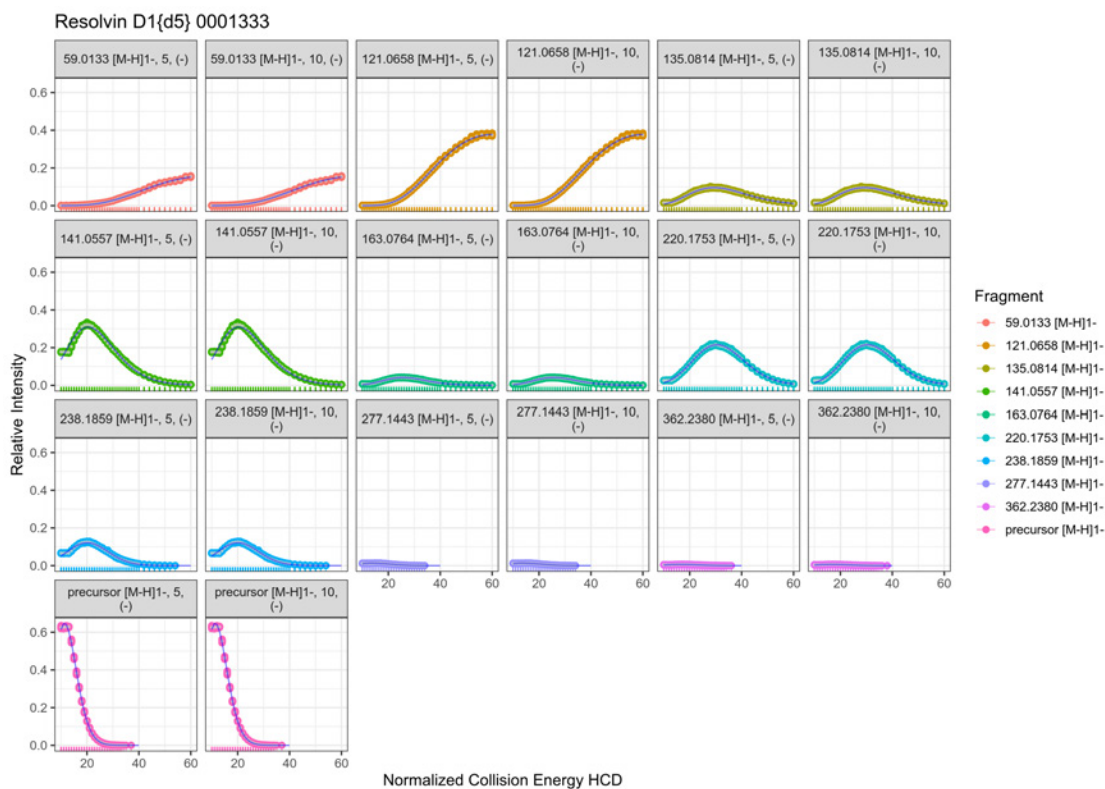


Figure 246. Nonlinear fit

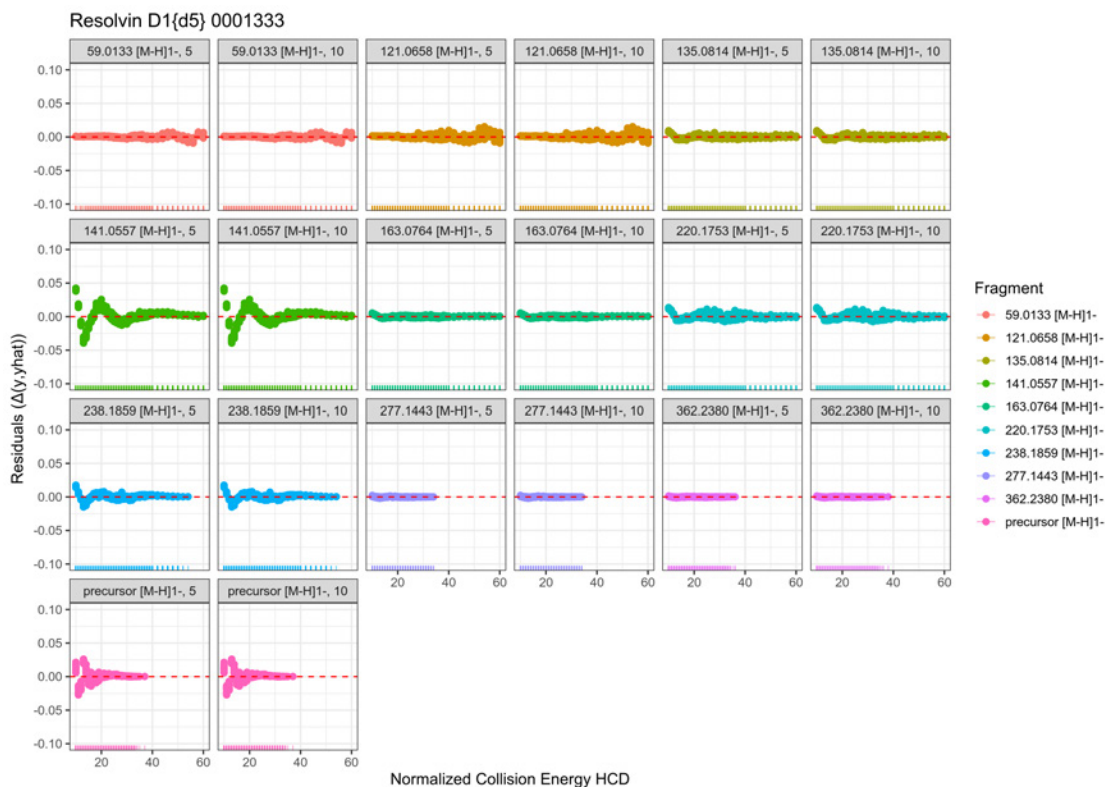


Figure 247. Residuals of nonlinear fit

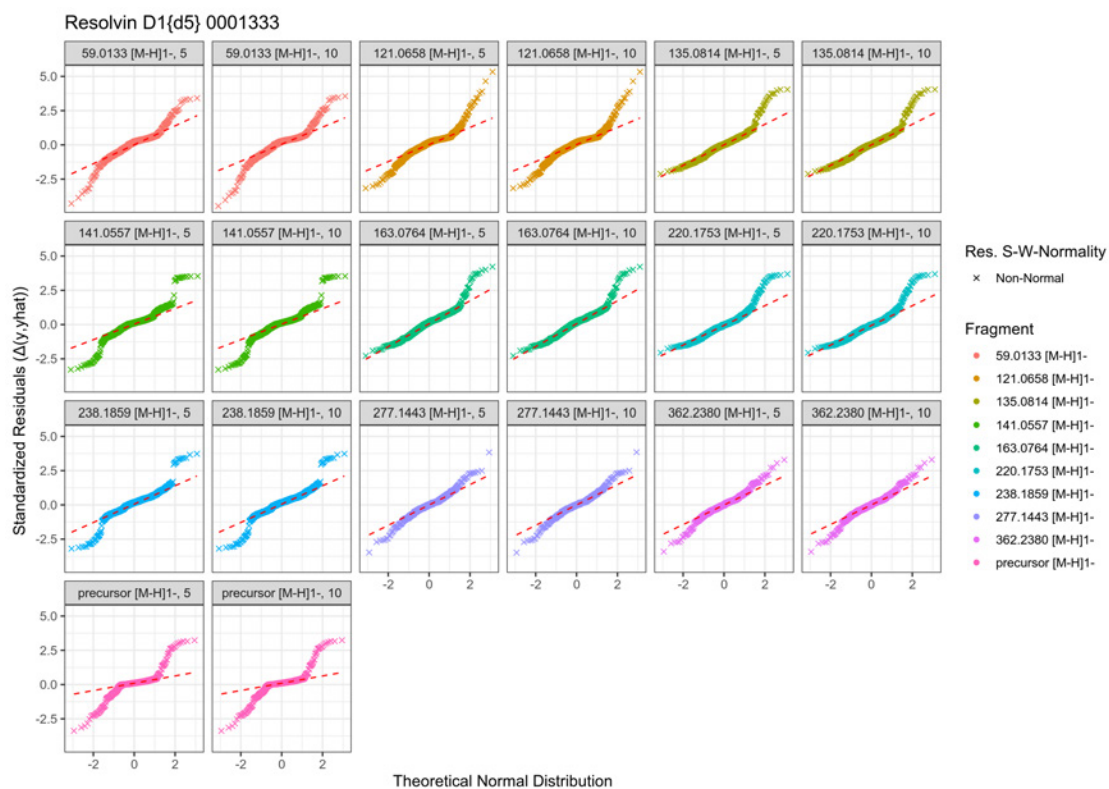


Figure 248. Quantile-quantile plot of residuals

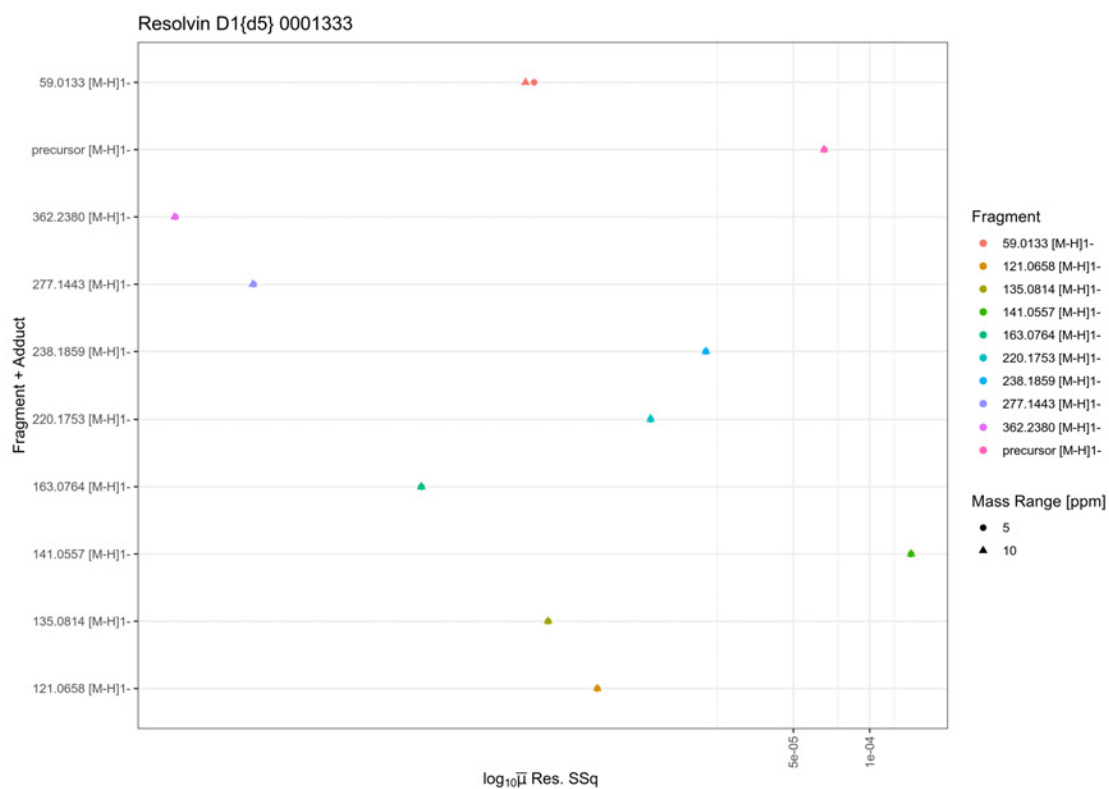


Figure 249. Normalized sum-of-squares of the residuals

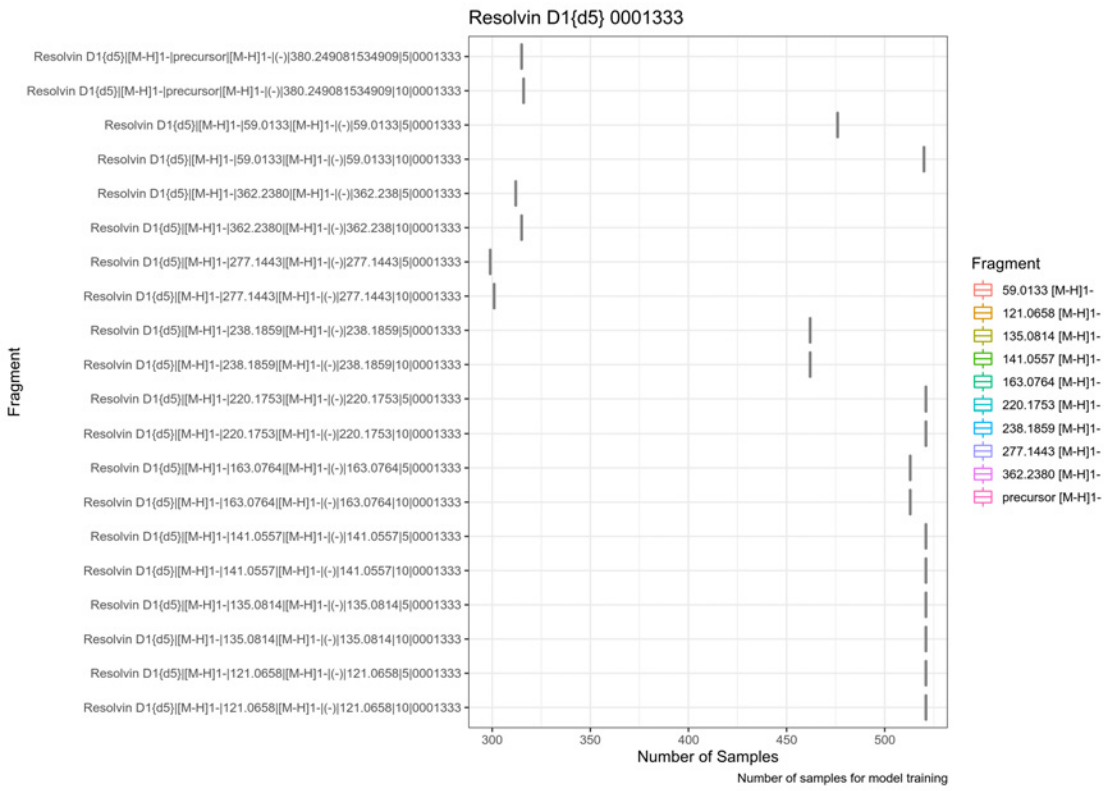


Figure 250. Number of samples used for training per combination Id

# 1.51. Resolvin D2{d5} [M-H]1- 0000129

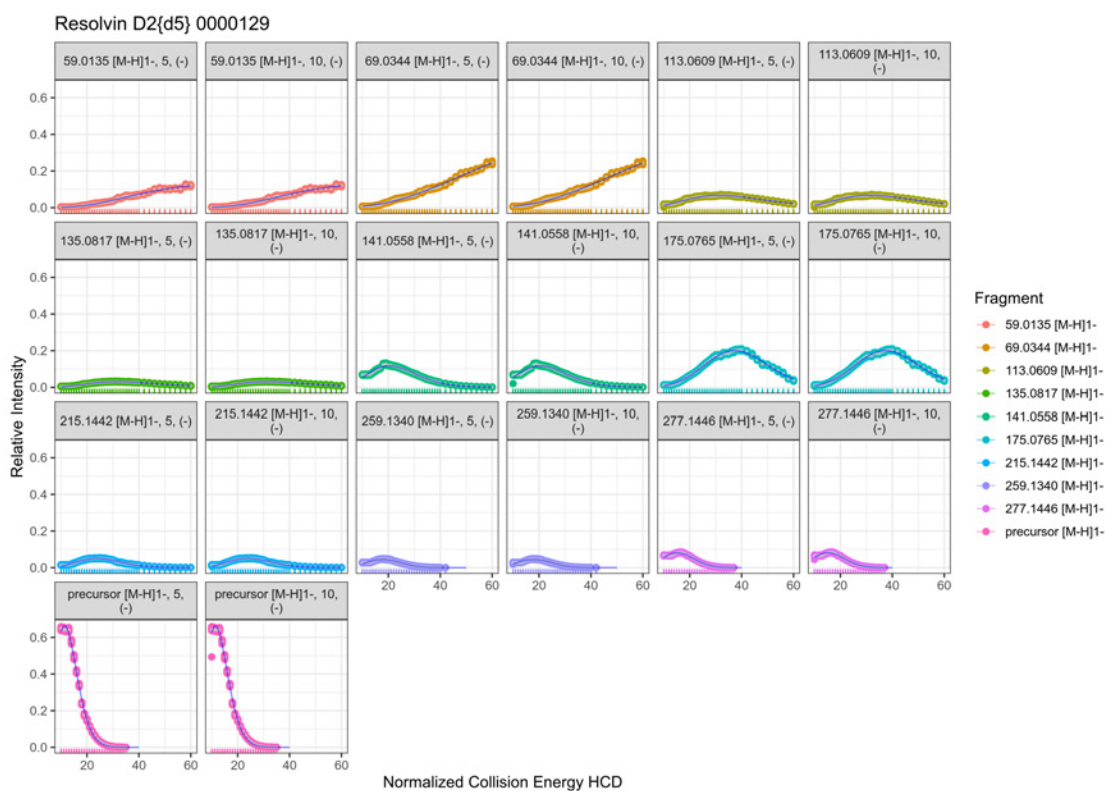


Figure 251. Nonlinear fit

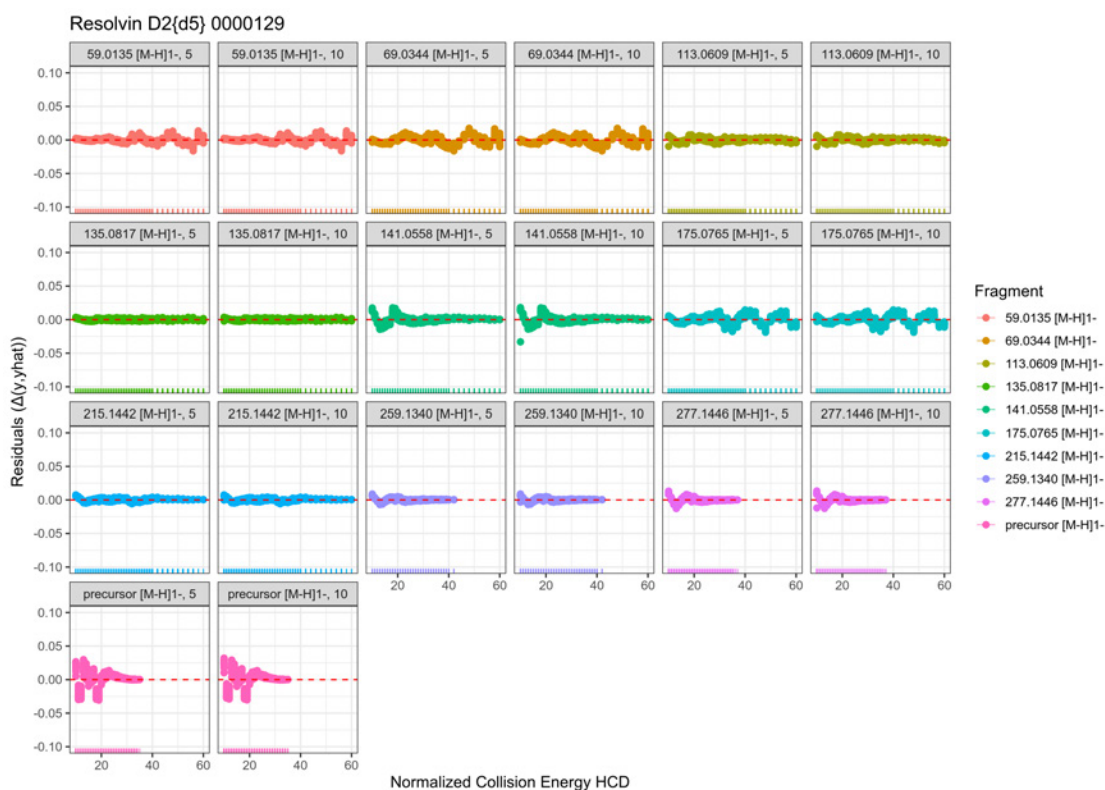


Figure 252. Residuals of nonlinear fit

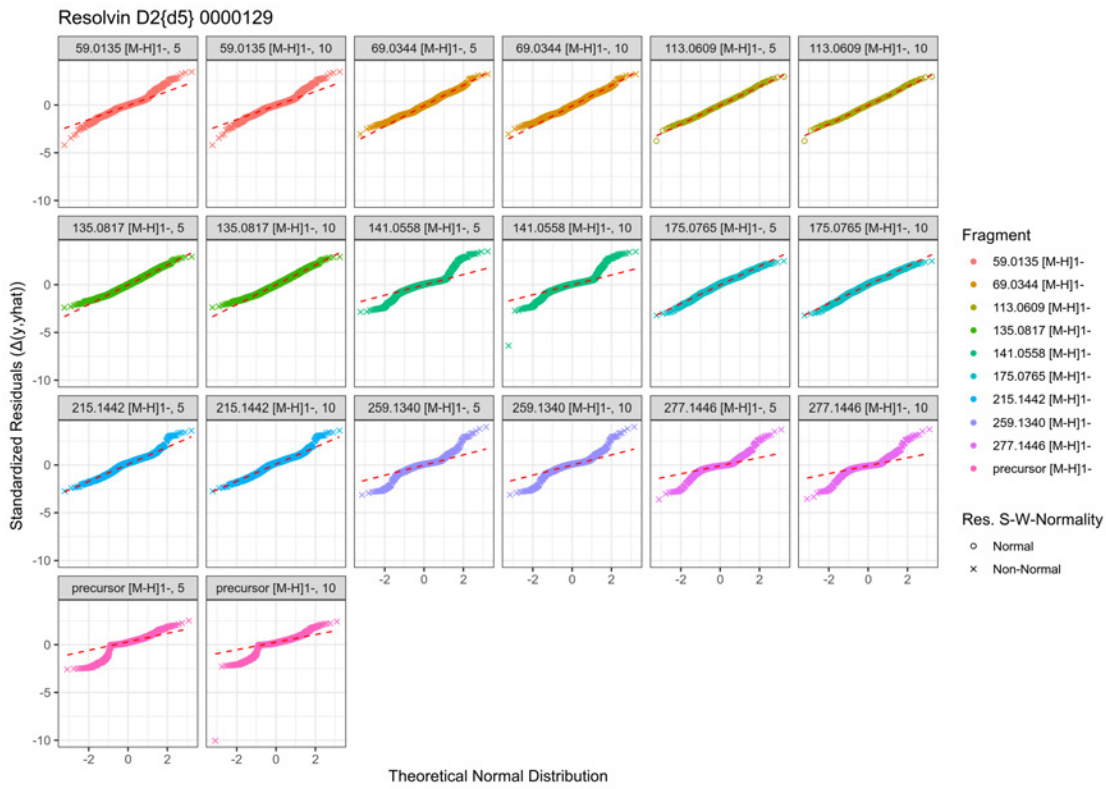


Figure 253. Quantile-quantile plot of residuals

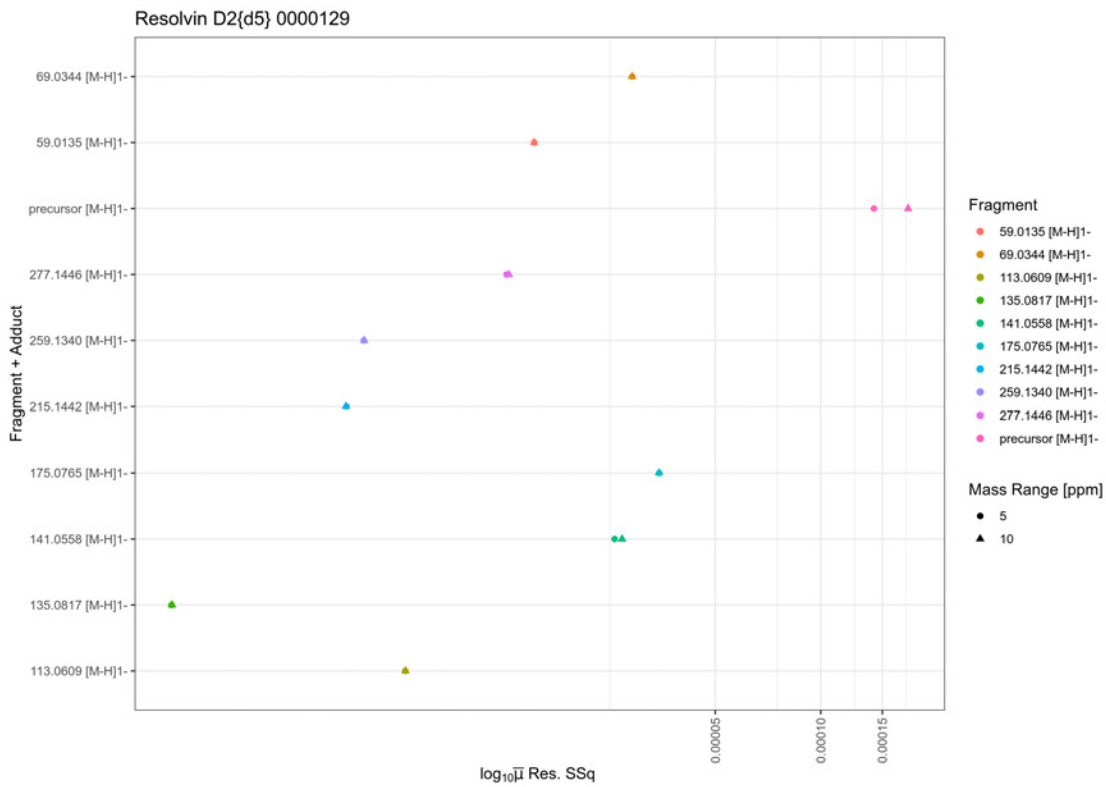


Figure 254. Normalized sum-of-squares of the residuals



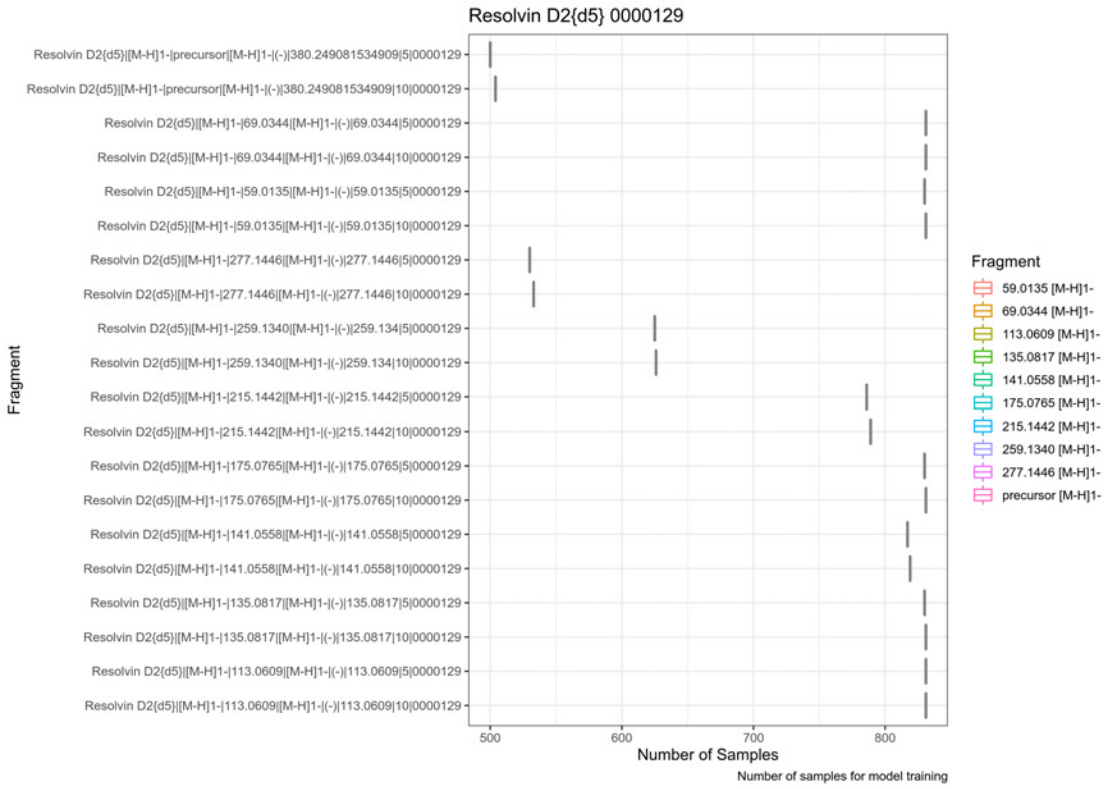


Figure 255. Number of samples used for training per combination Id

## 1.52. Resolvin D3 [M-H]1- 0000141

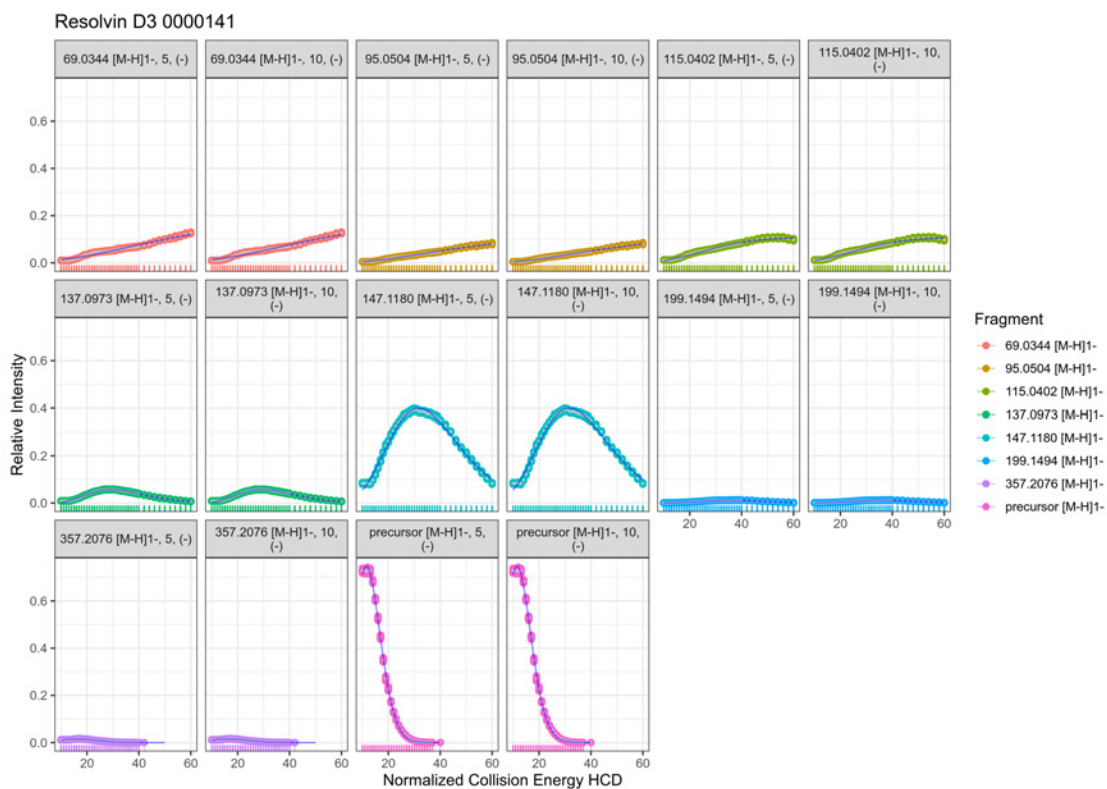


Figure 256. Nonlinear fit

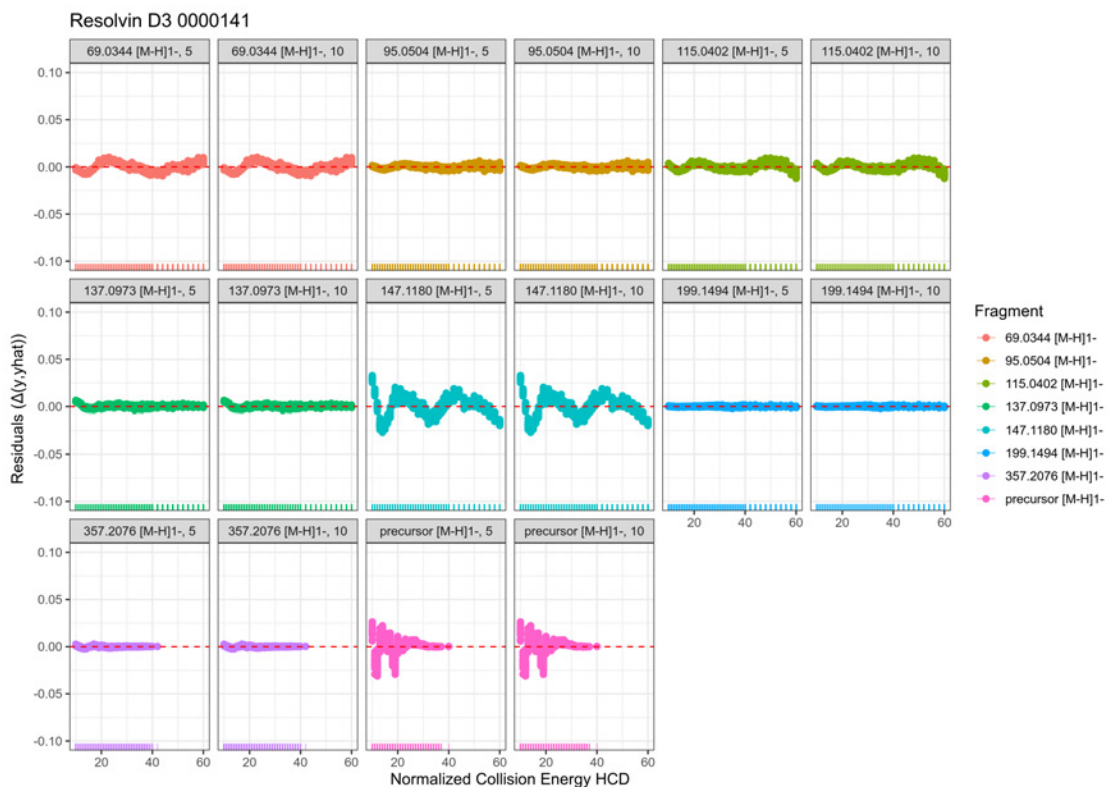


Figure 257. Residuals of nonlinear fit

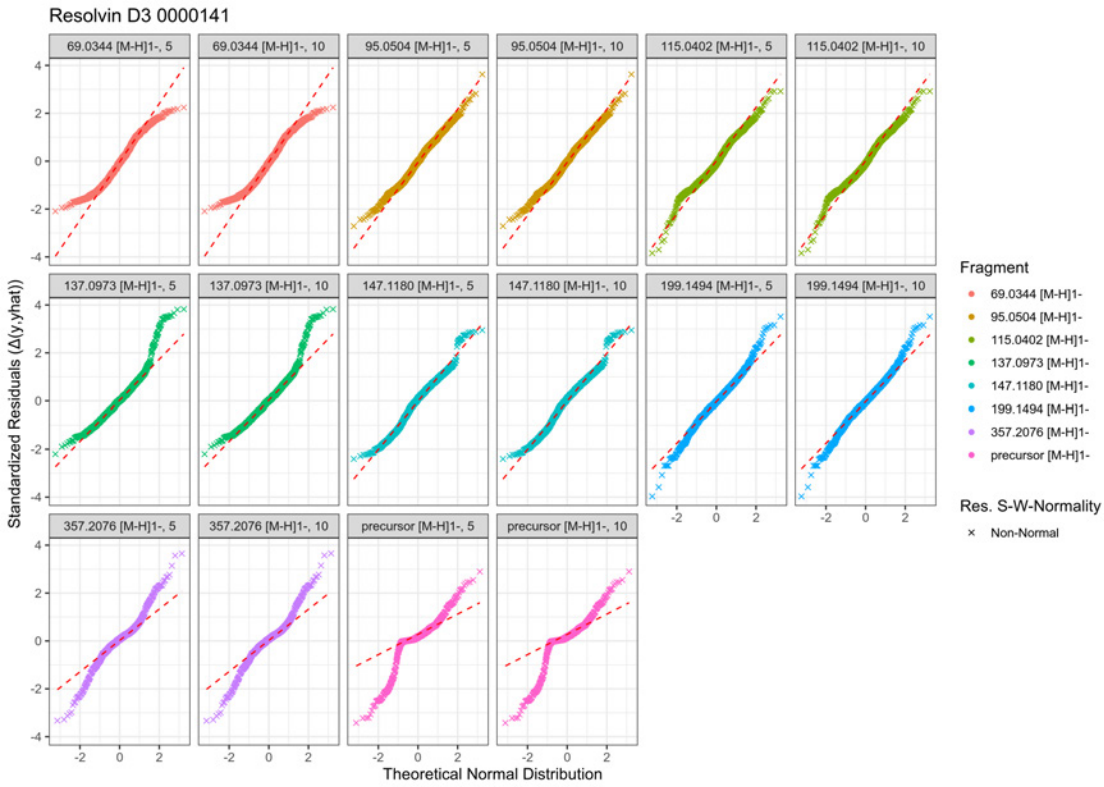


Figure 258. Quantile-quantile plot of residuals

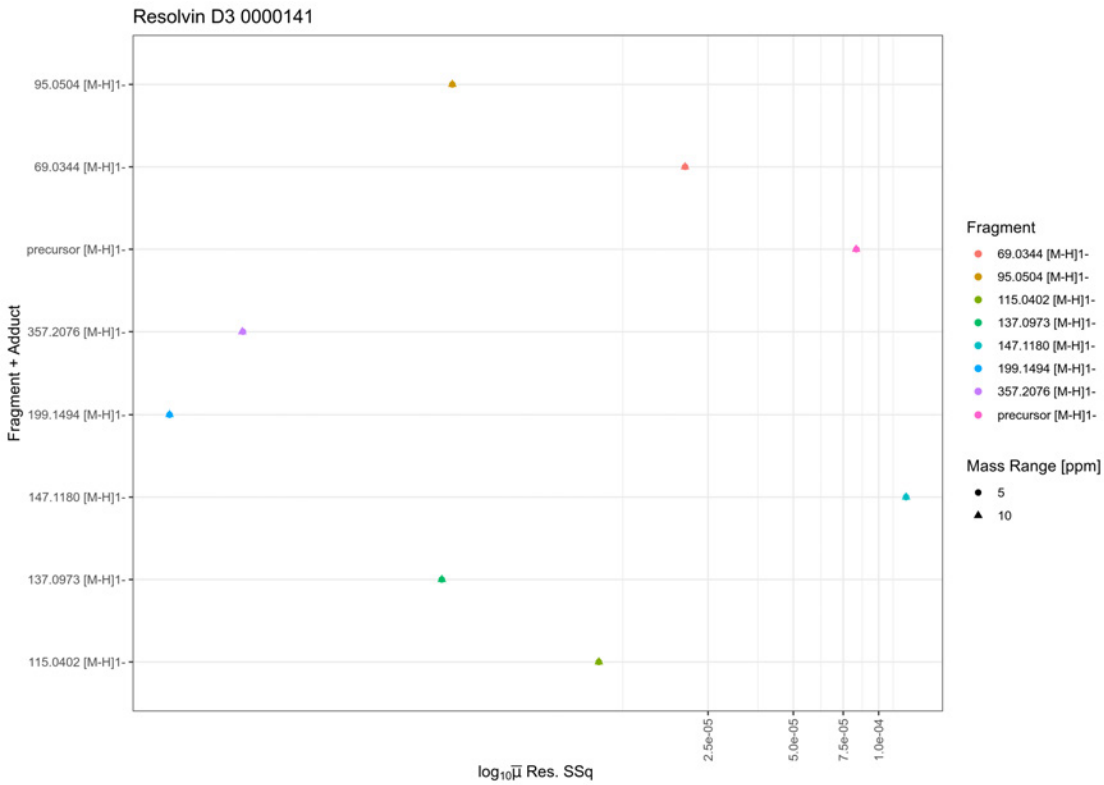


Figure 259. Normalized sum-of-squares of the residuals

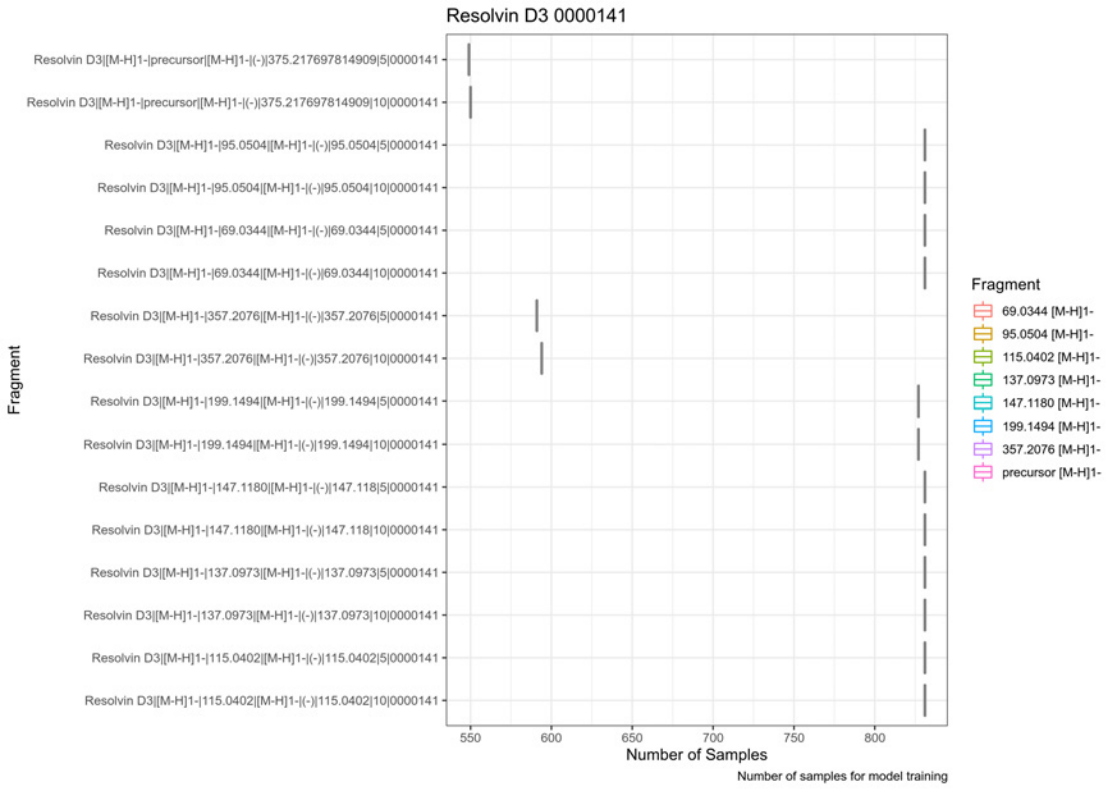


Figure 260. Number of samples used for training per combination Id

# 1.53. Resolvin D5 [M-H]1- 0000143

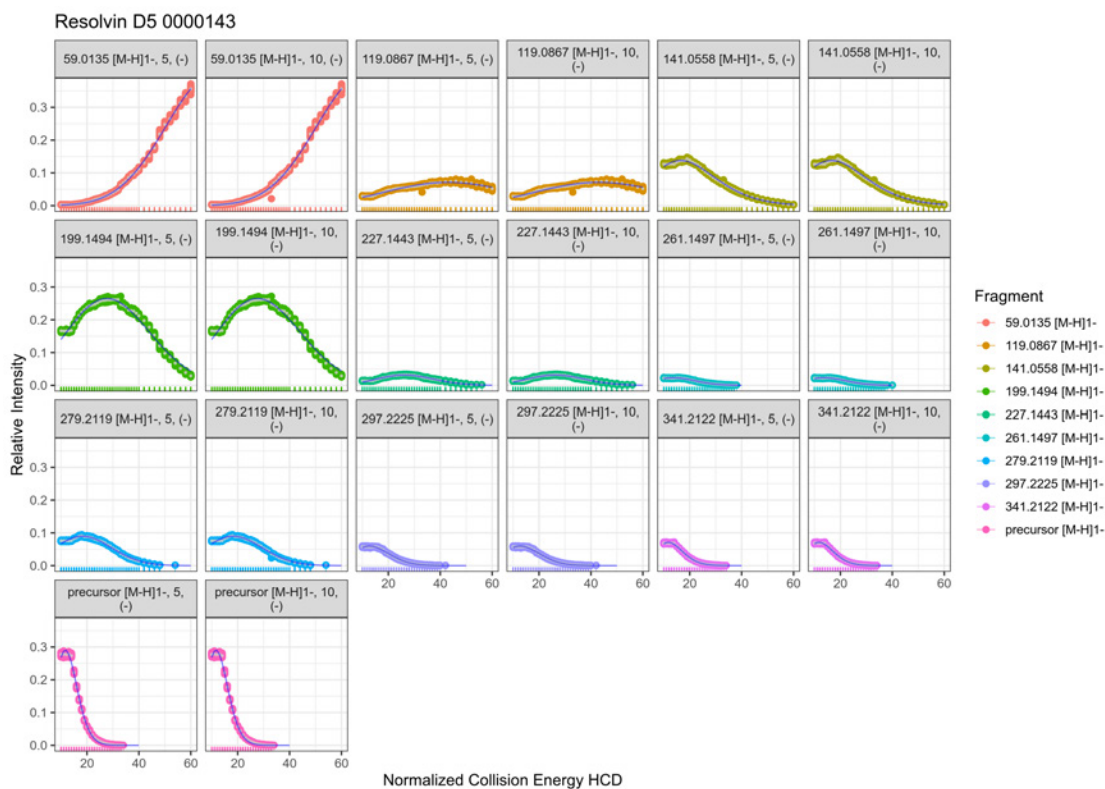


Figure 261. Nonlinear fit

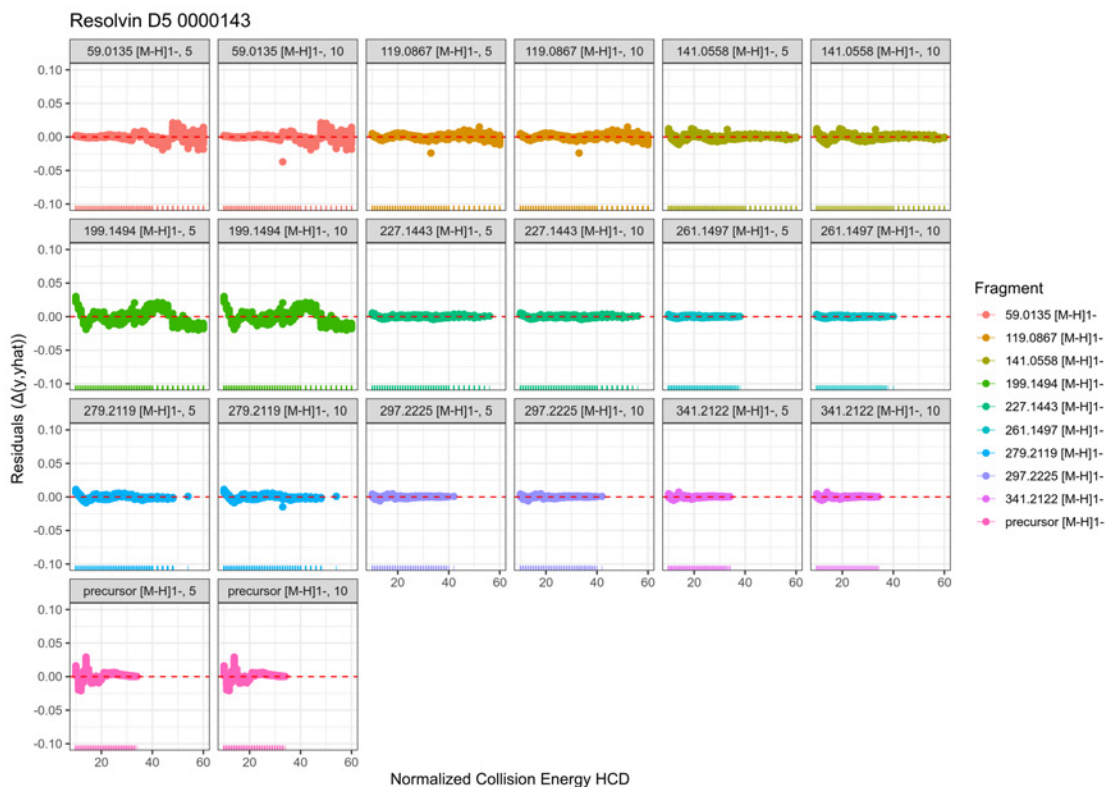


Figure 262. Residuals of nonlinear fit

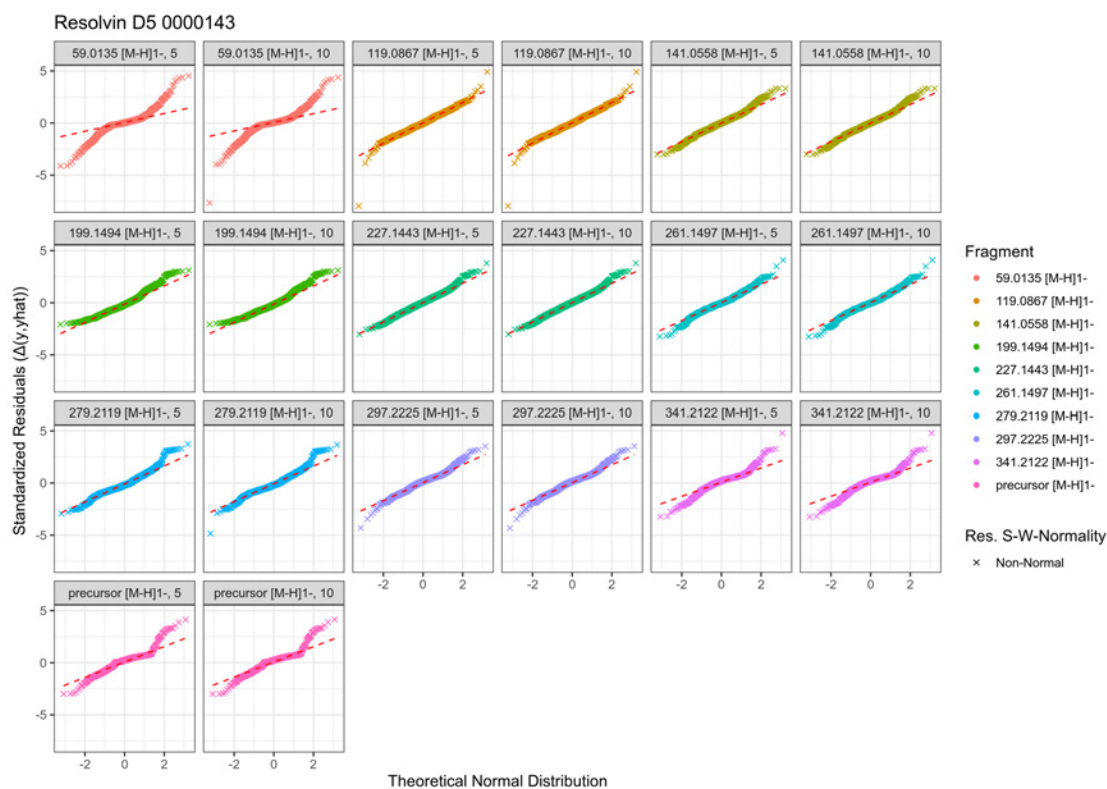


Figure 263. Quantile-quantile plot of residuals

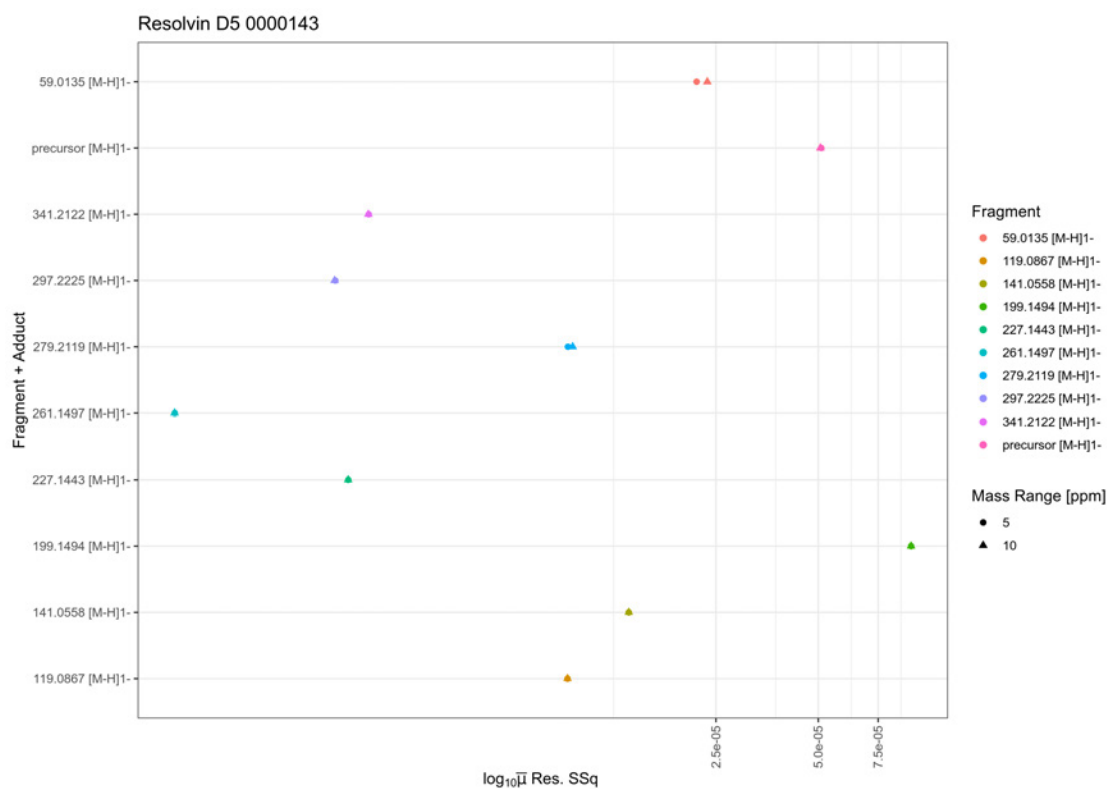


Figure 264. Normalized sum-of-squares of the residuals



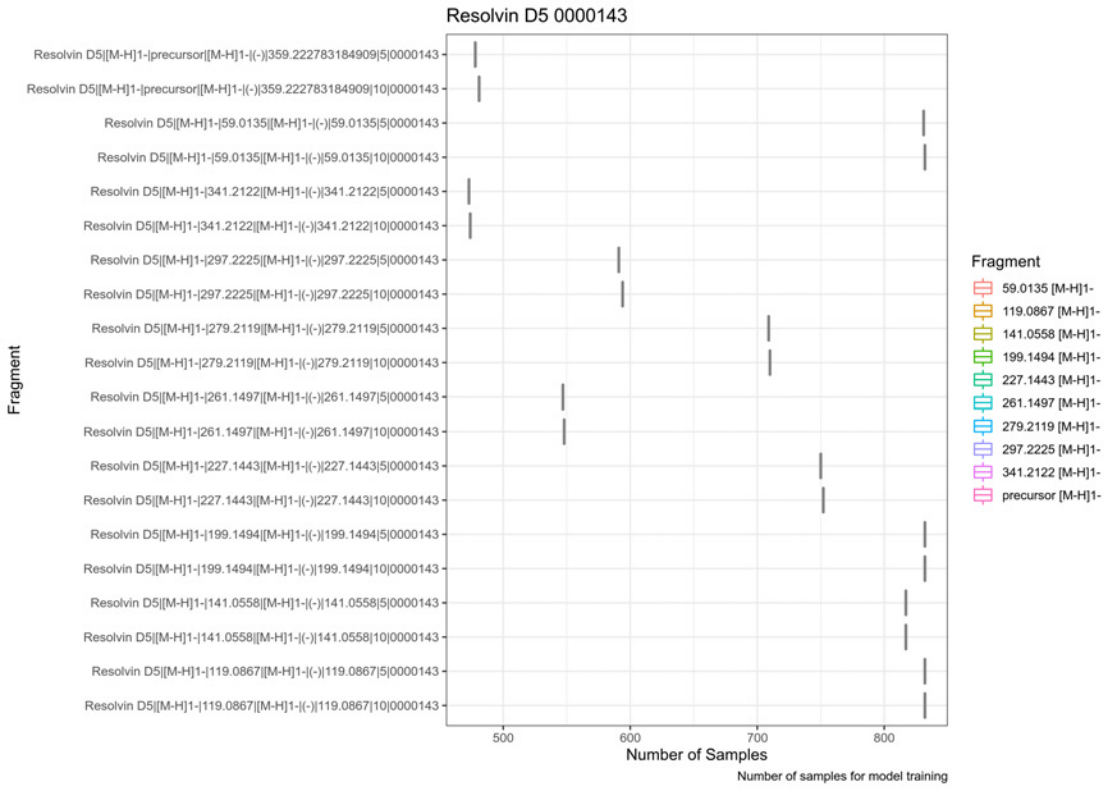


Figure 265. Number of samples used for training per combination Id

# 1.54. TXB1 [M-H]1- 0001325

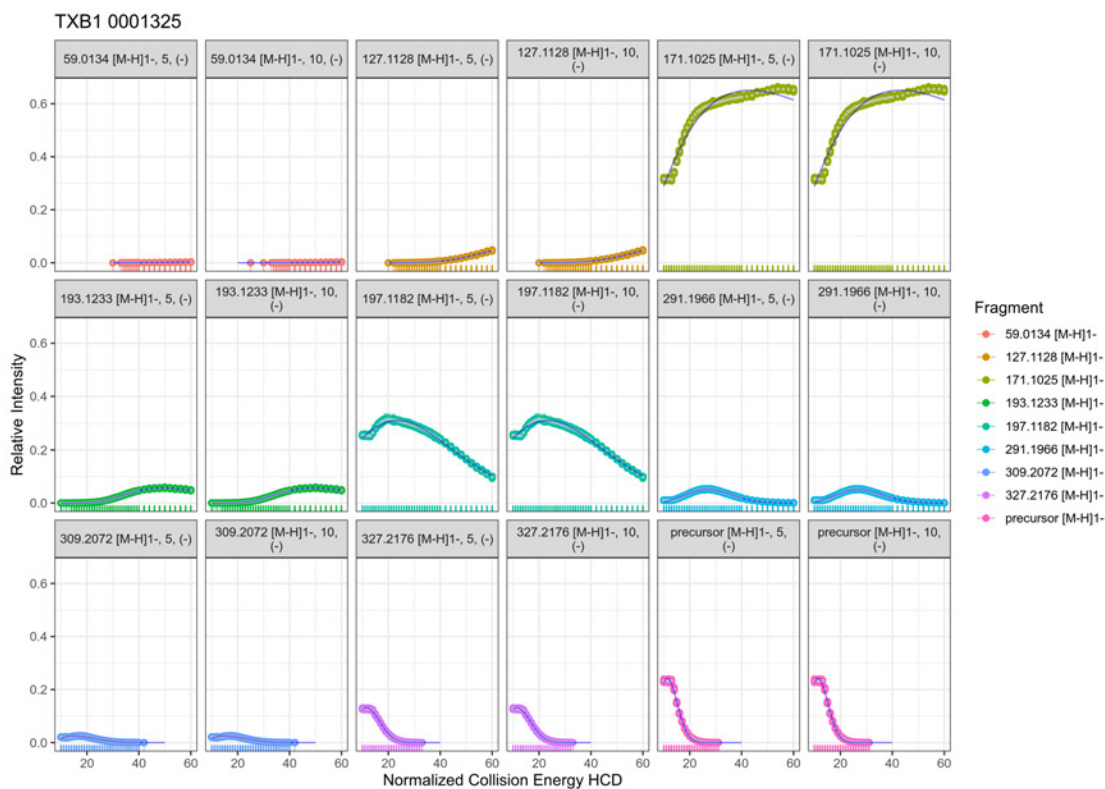


Figure 266. Nonlinear fit

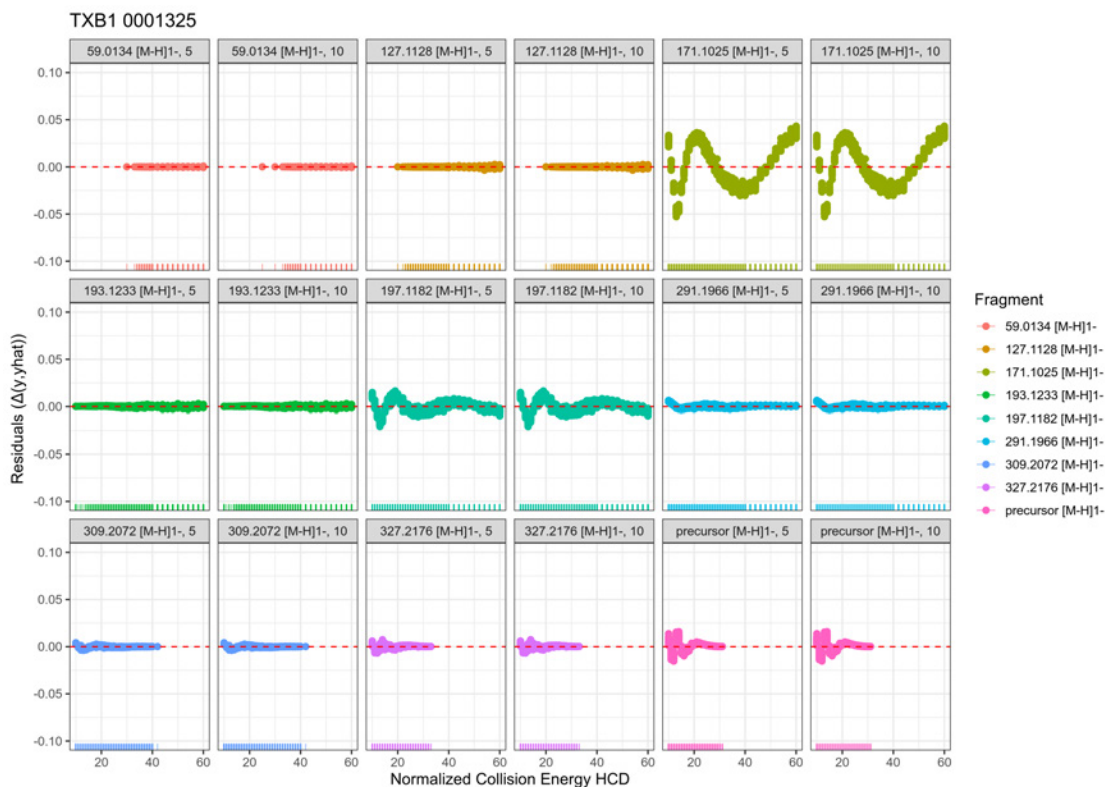


Figure 267. Residuals of nonlinear fit

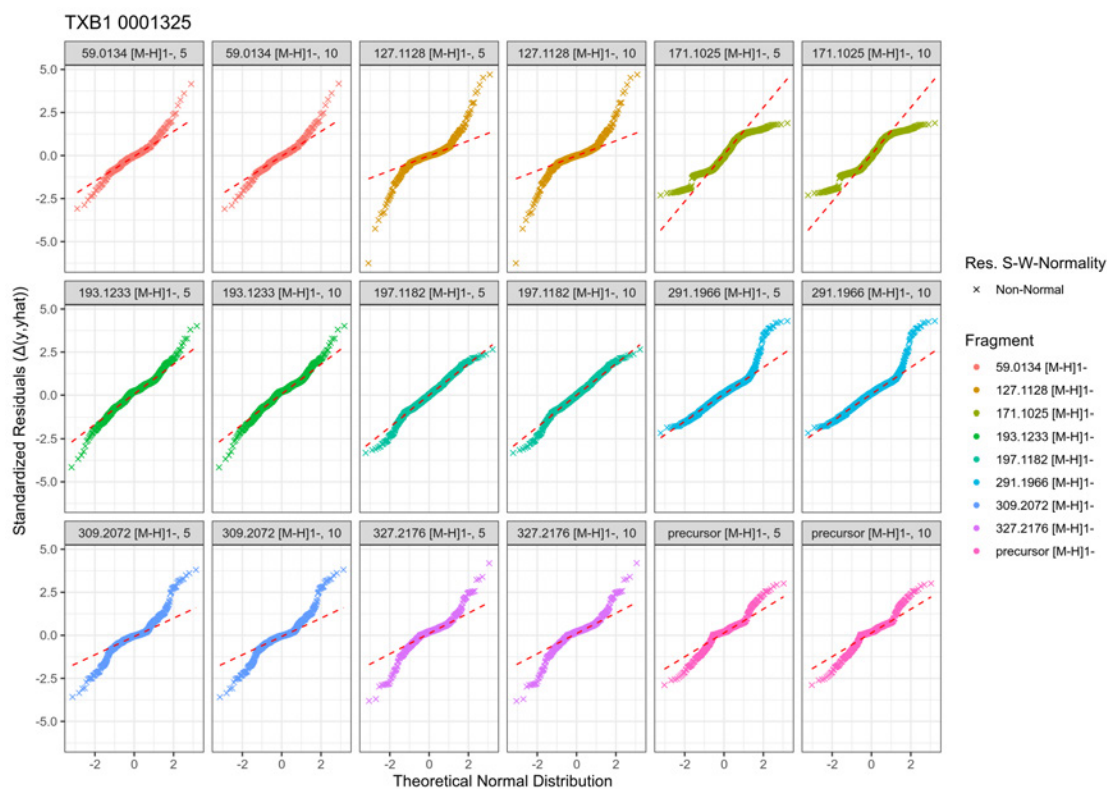


Figure 268. Quantile-quantile plot of residuals

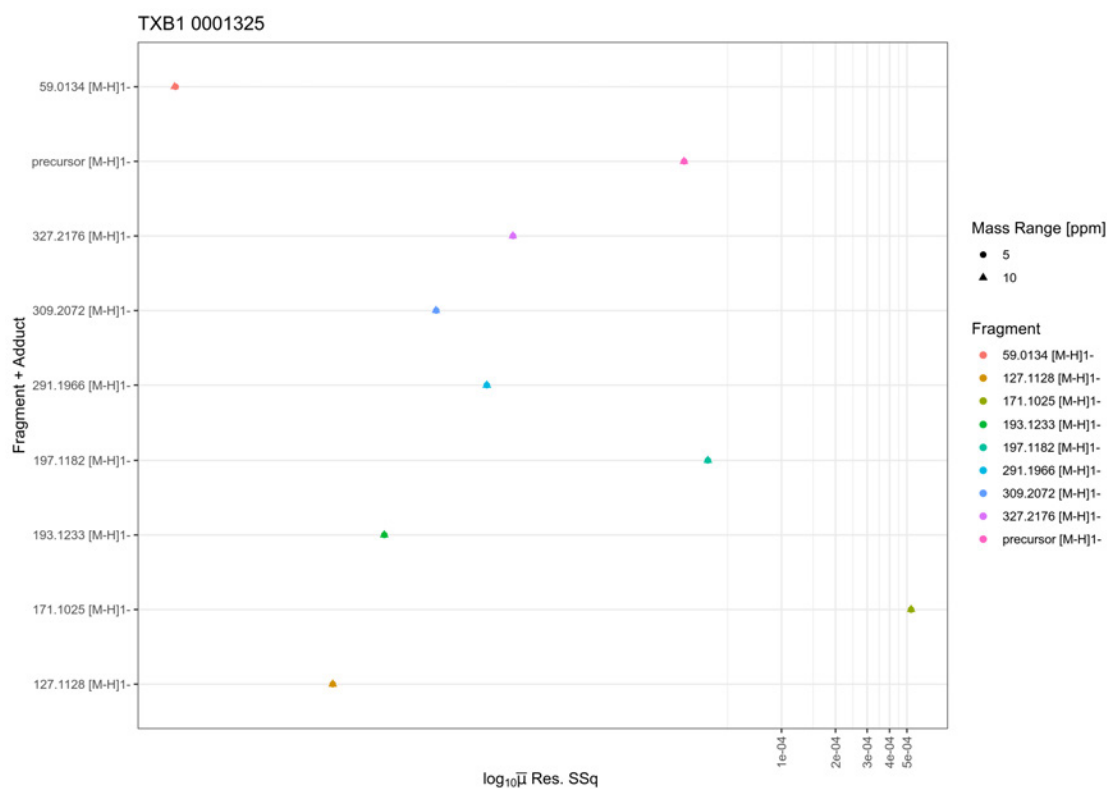


Figure 269. Normalized sum-of-squares of the residuals

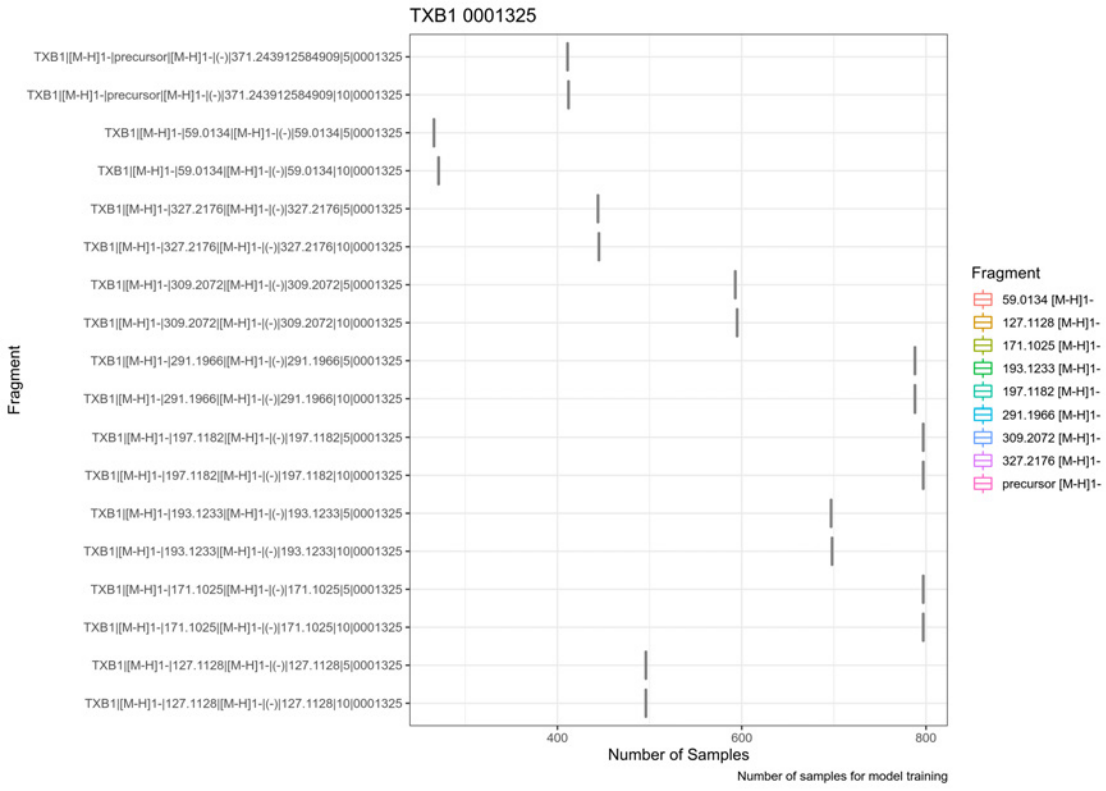


Figure 270. Number of samples used for training per combination Id

# 1.55. TXB2{d4} [M-H]1- 0001327

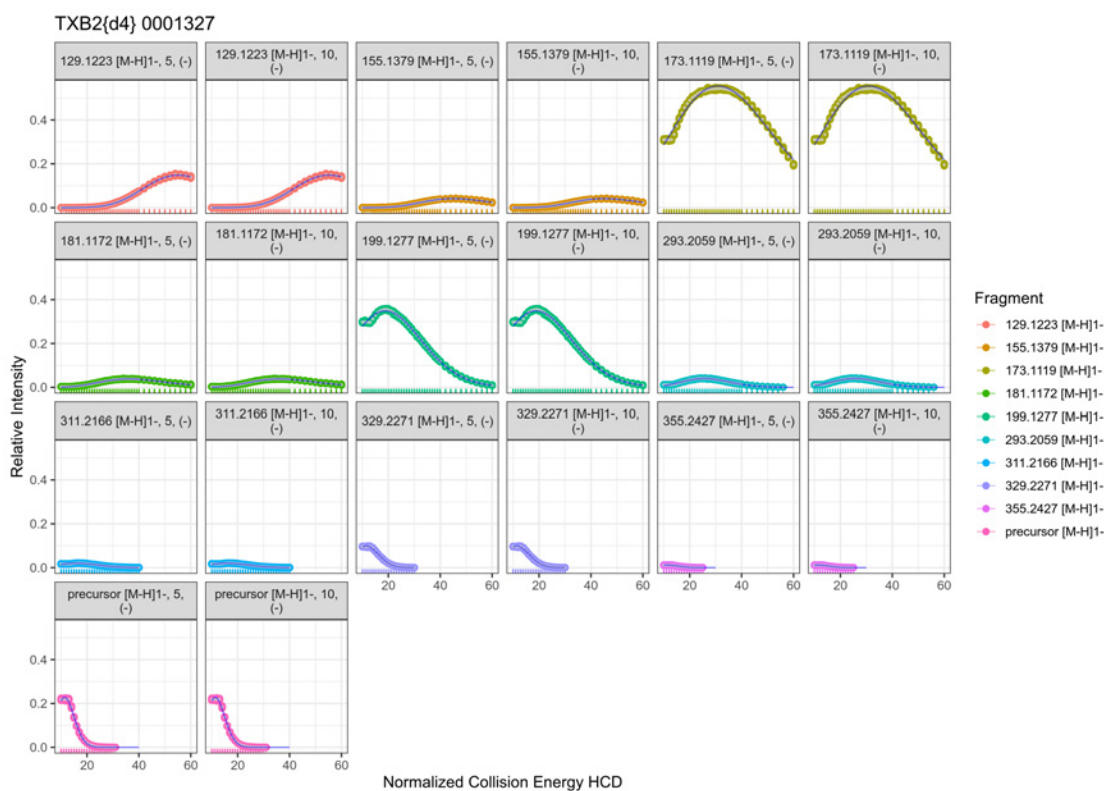


Figure 271. Nonlinear fit

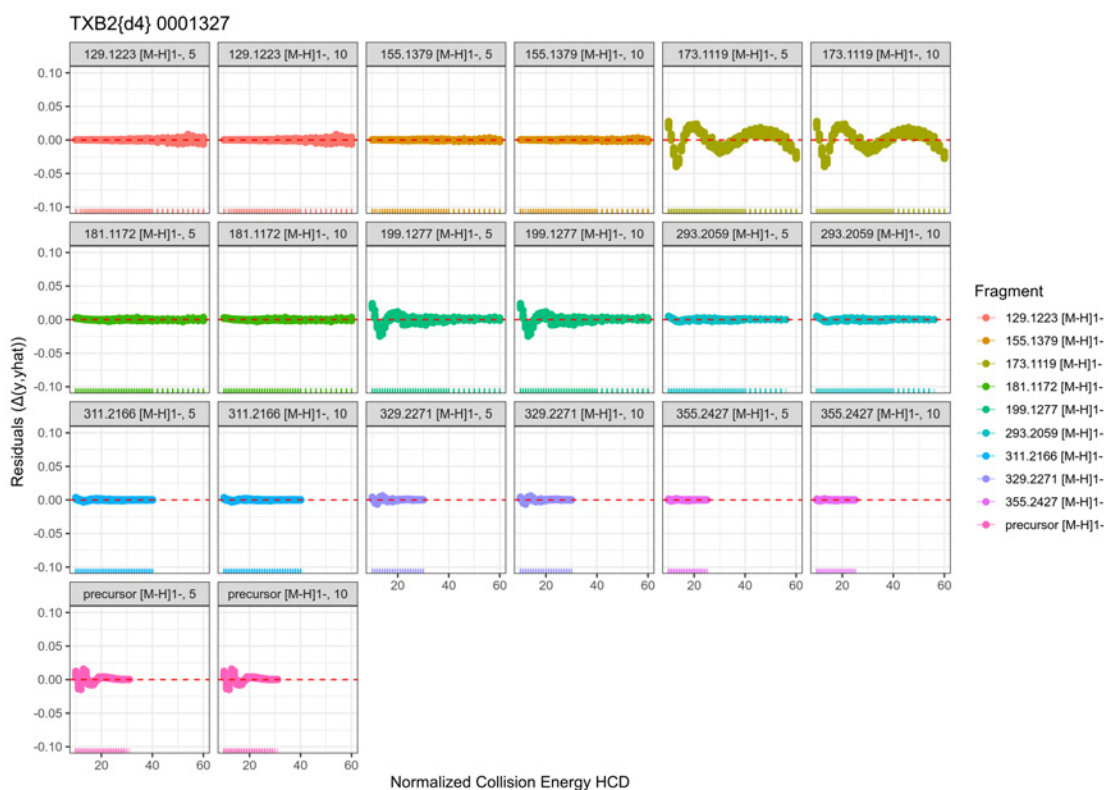


Figure 272. Residuals of nonlinear fit

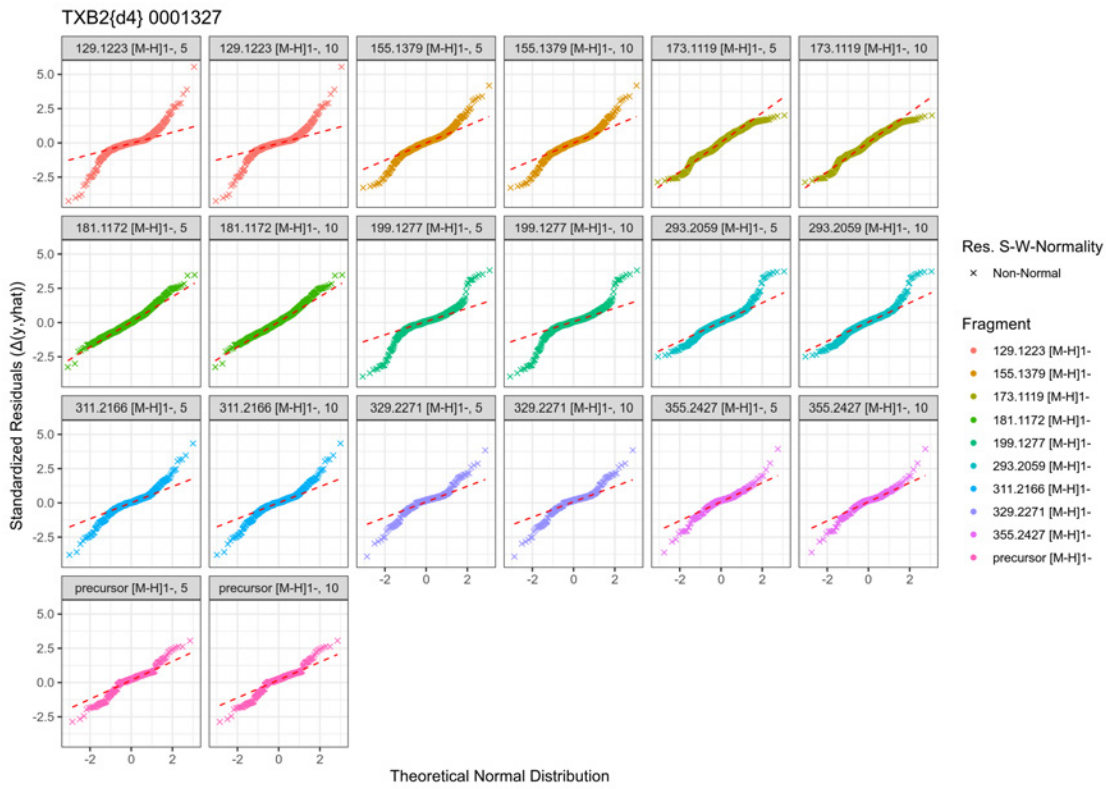


Figure 273. Quantile-quantile plot of residuals

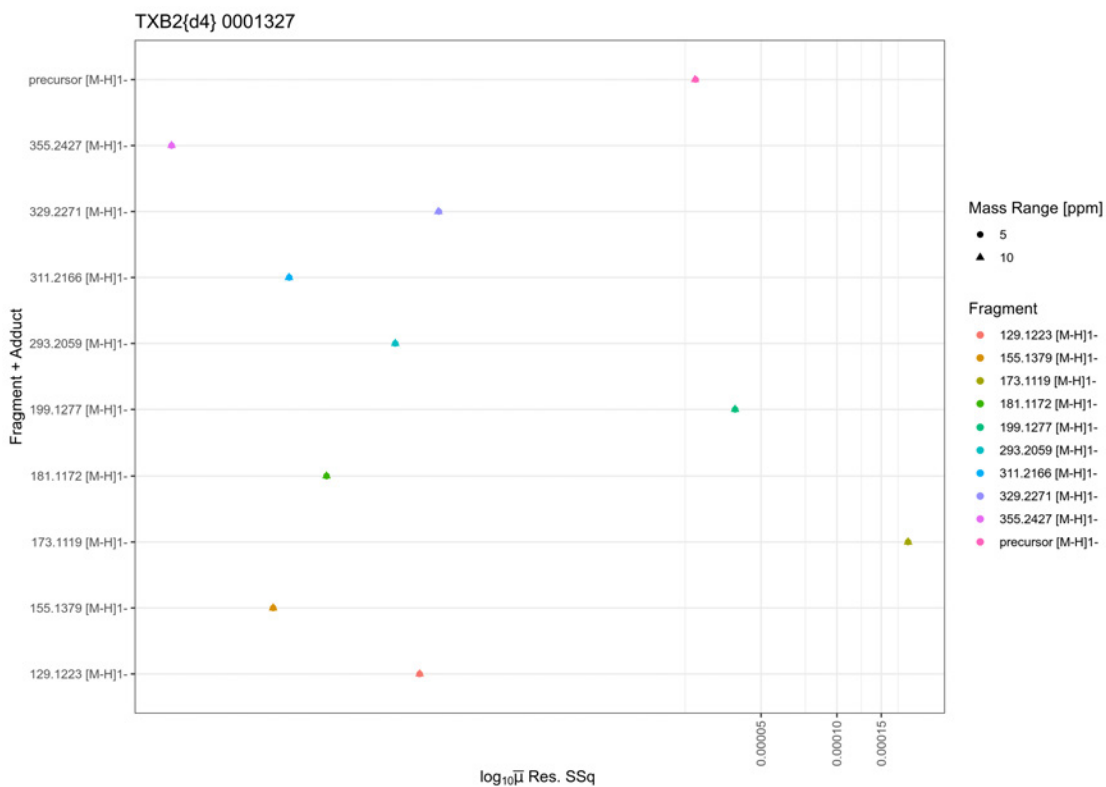


Figure 274. Normalized sum-of-squares of the residuals



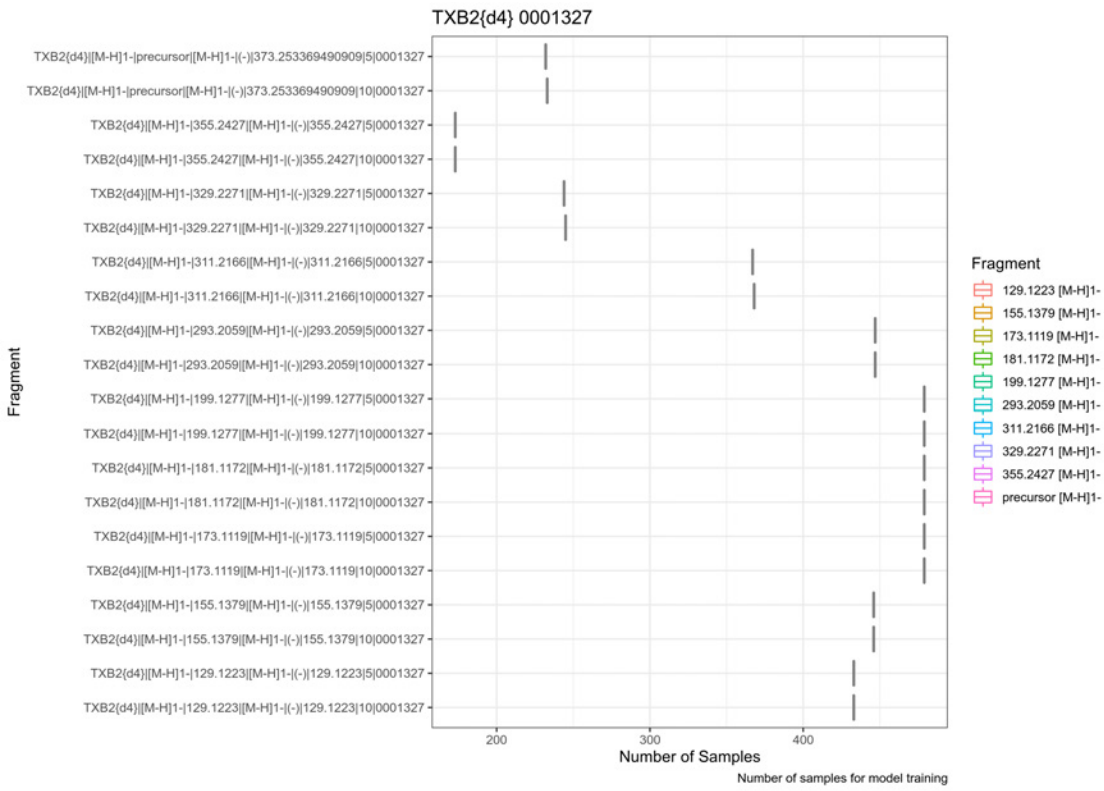


Figure 275. Number of samples used for training per combination Id

# 1.56. TXB3 [M-H]1- 0001323

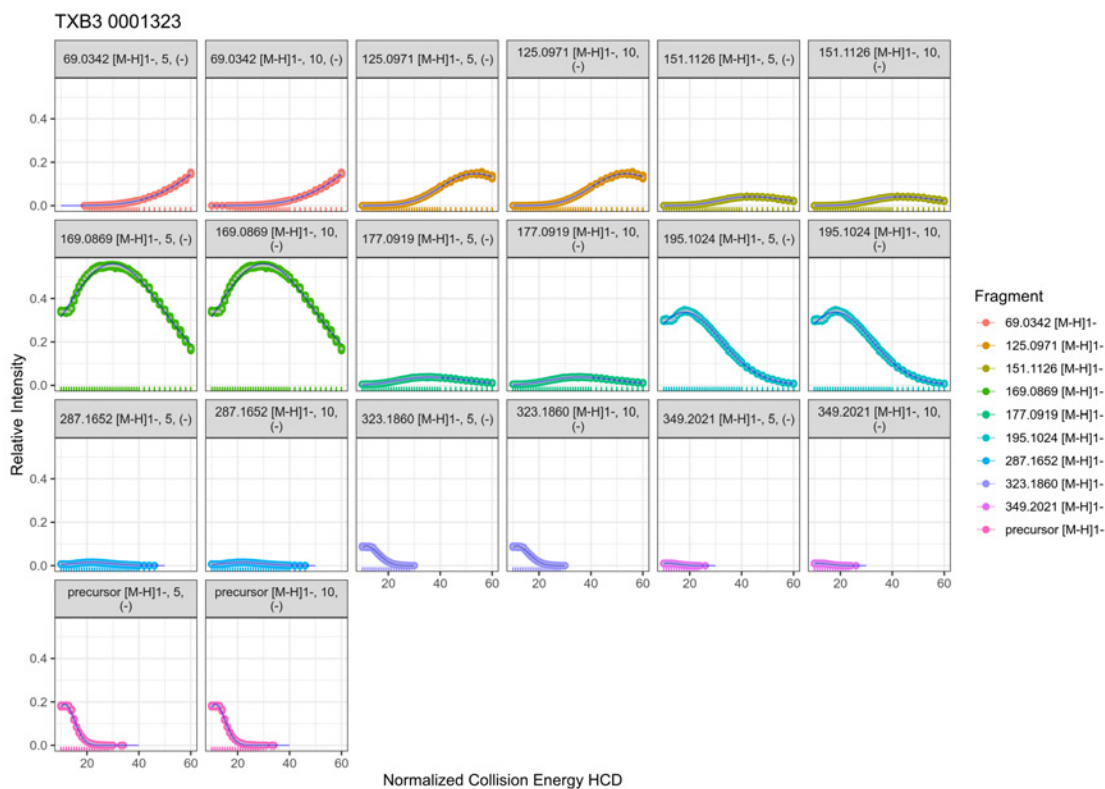


Figure 276. Nonlinear fit

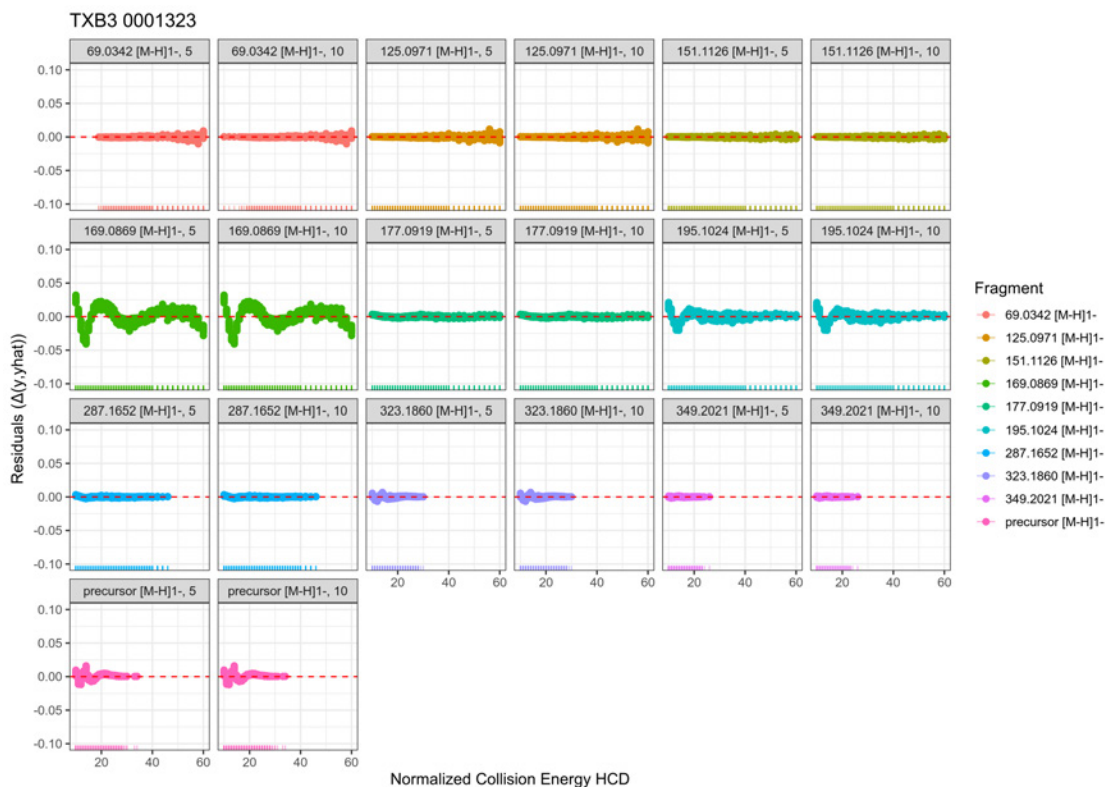


Figure 277. Residuals of nonlinear fit

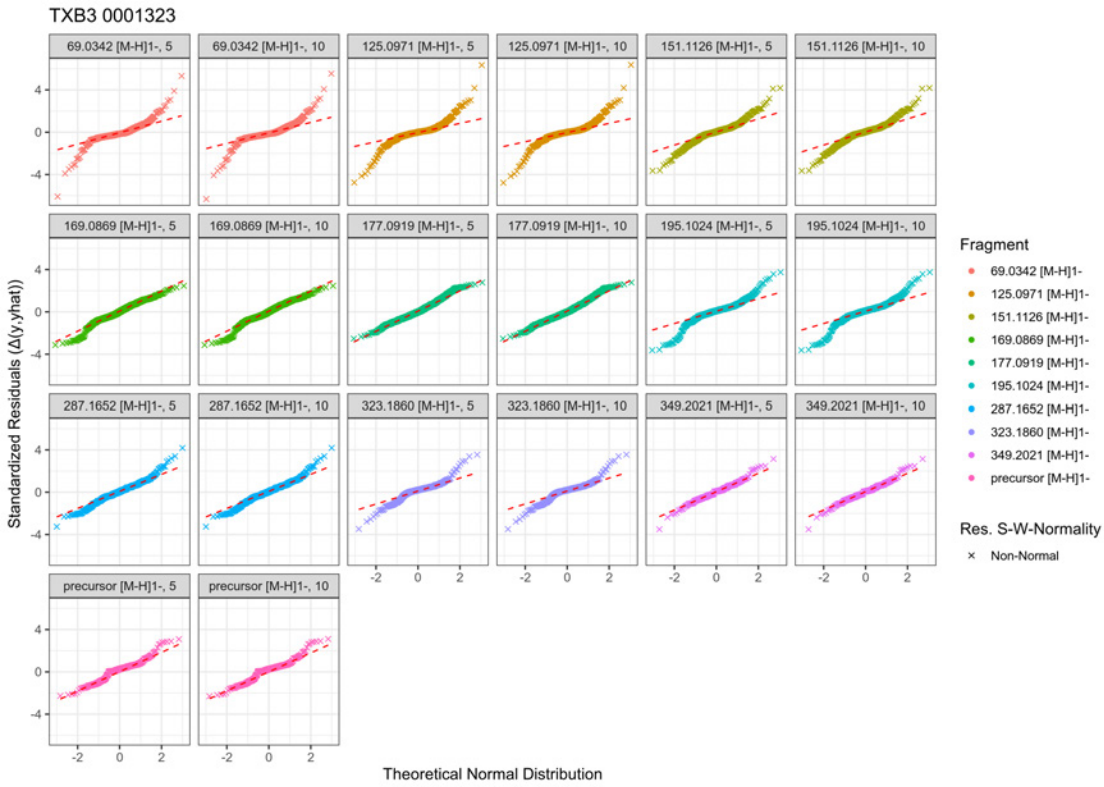


Figure 278. Quantile-quantile plot of residuals

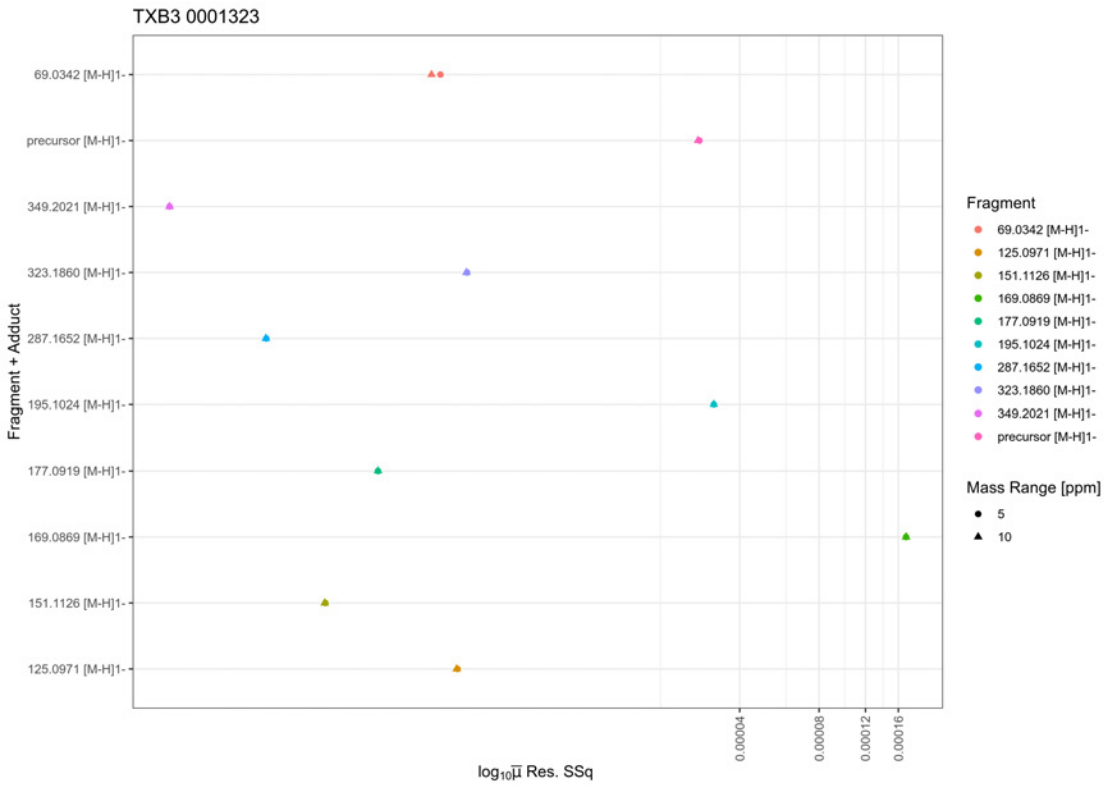


Figure 279. Normalized sum-of-squares of the residuals

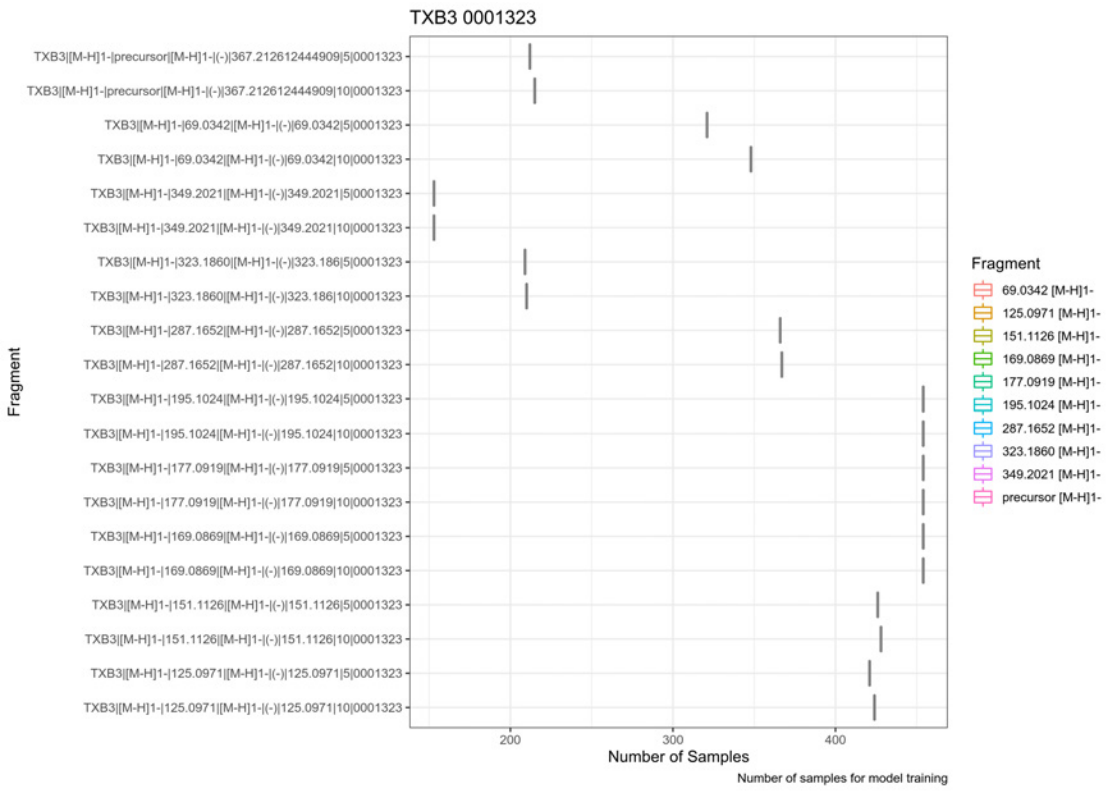


Figure 280. Number of samples used for training per combination Id

# 1.57. alpha-LA{d14} [M-H]1- 0000135

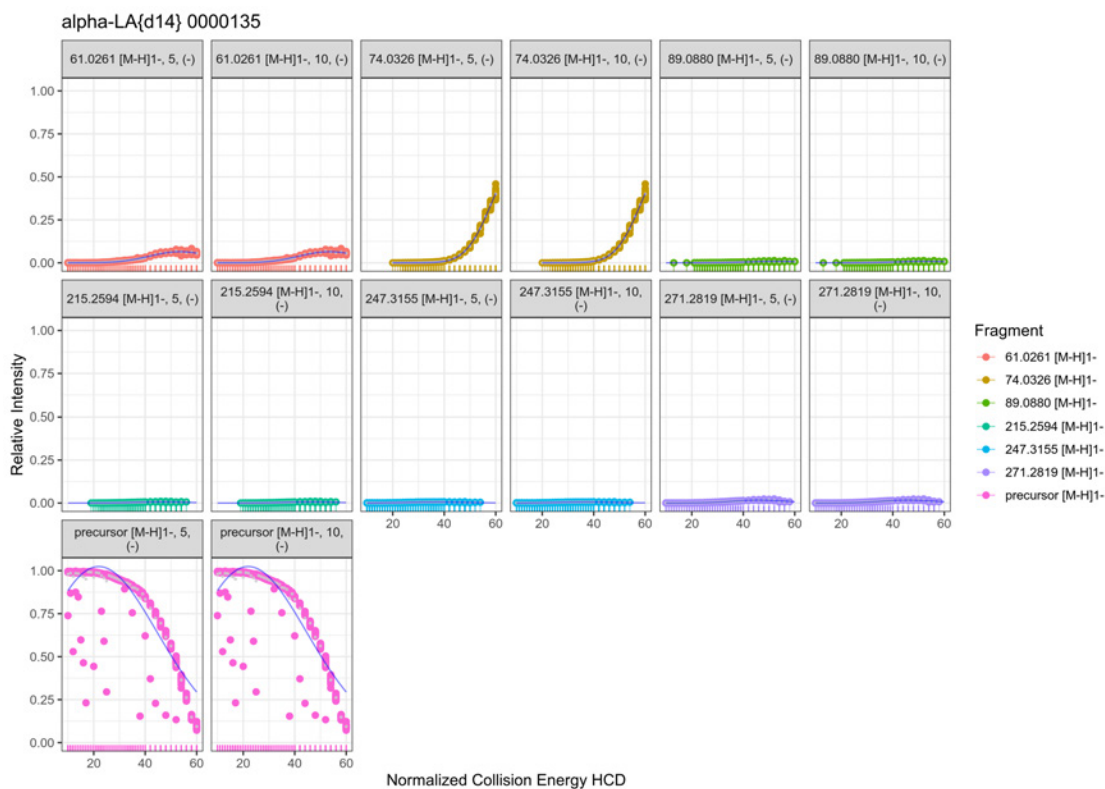


Figure 281. Nonlinear fit

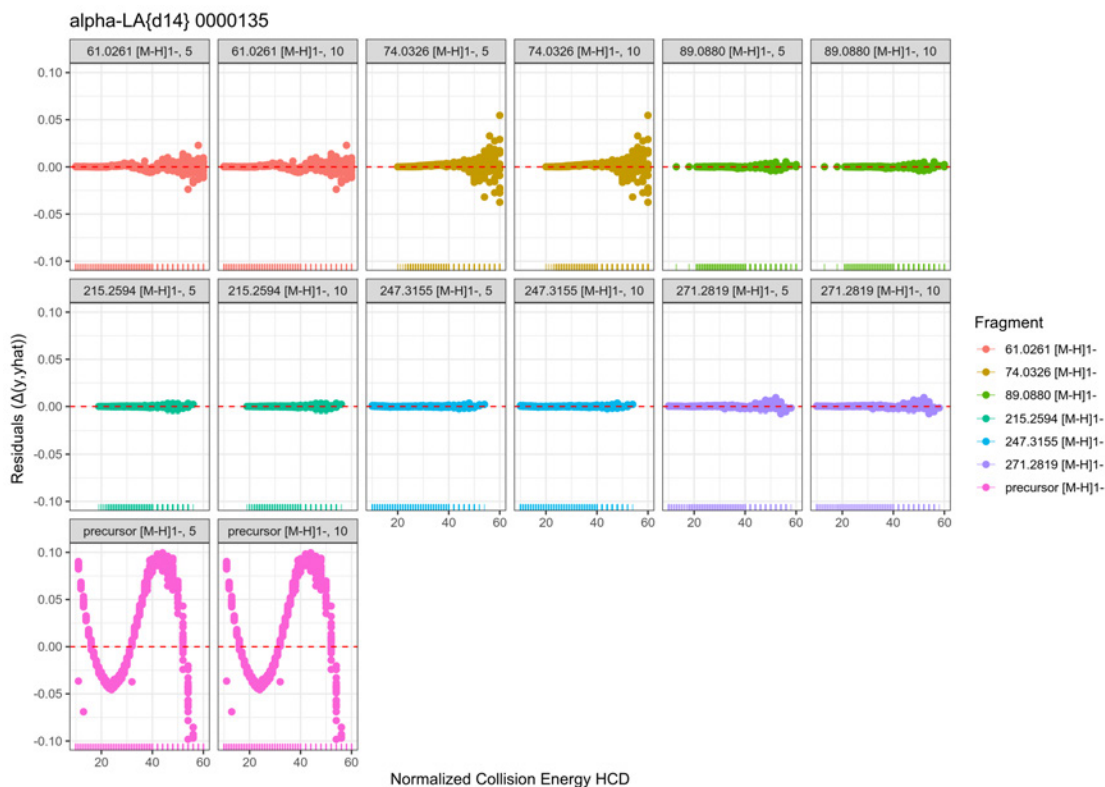


Figure 282. Residuals of nonlinear fit

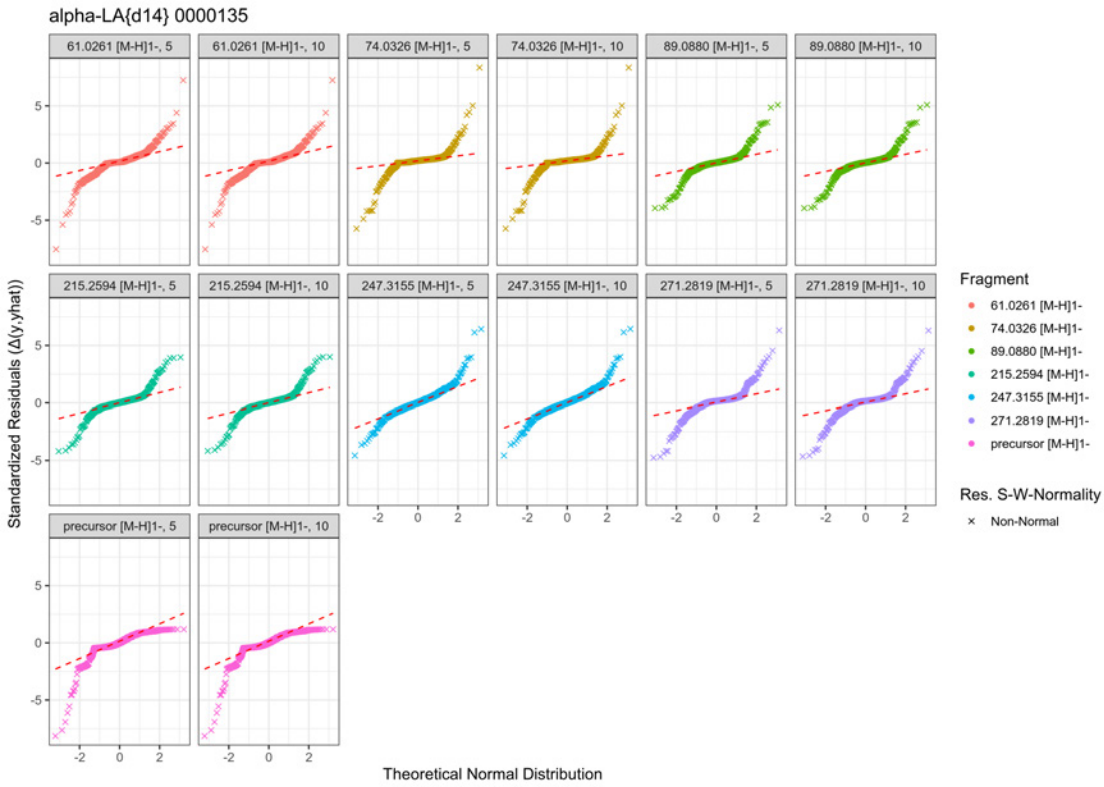


Figure 283. Quantile-quantile plot of residuals

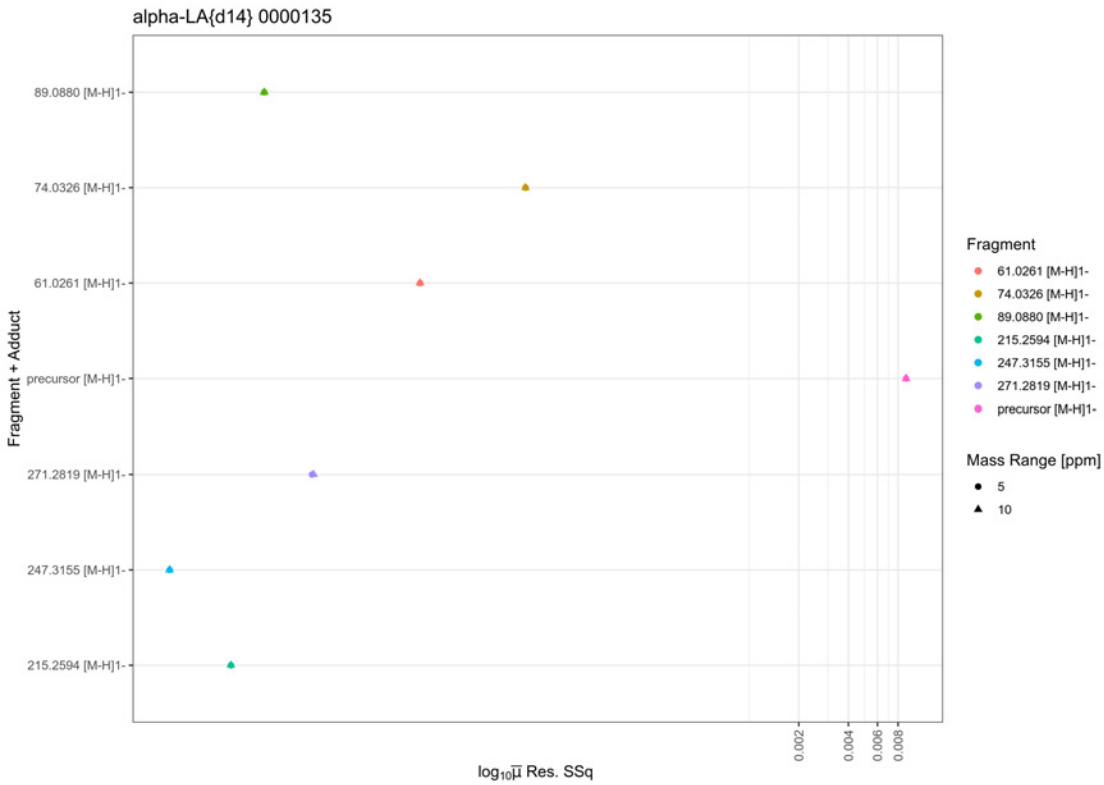


Figure 284. Normalized sum-of-squares of the residuals



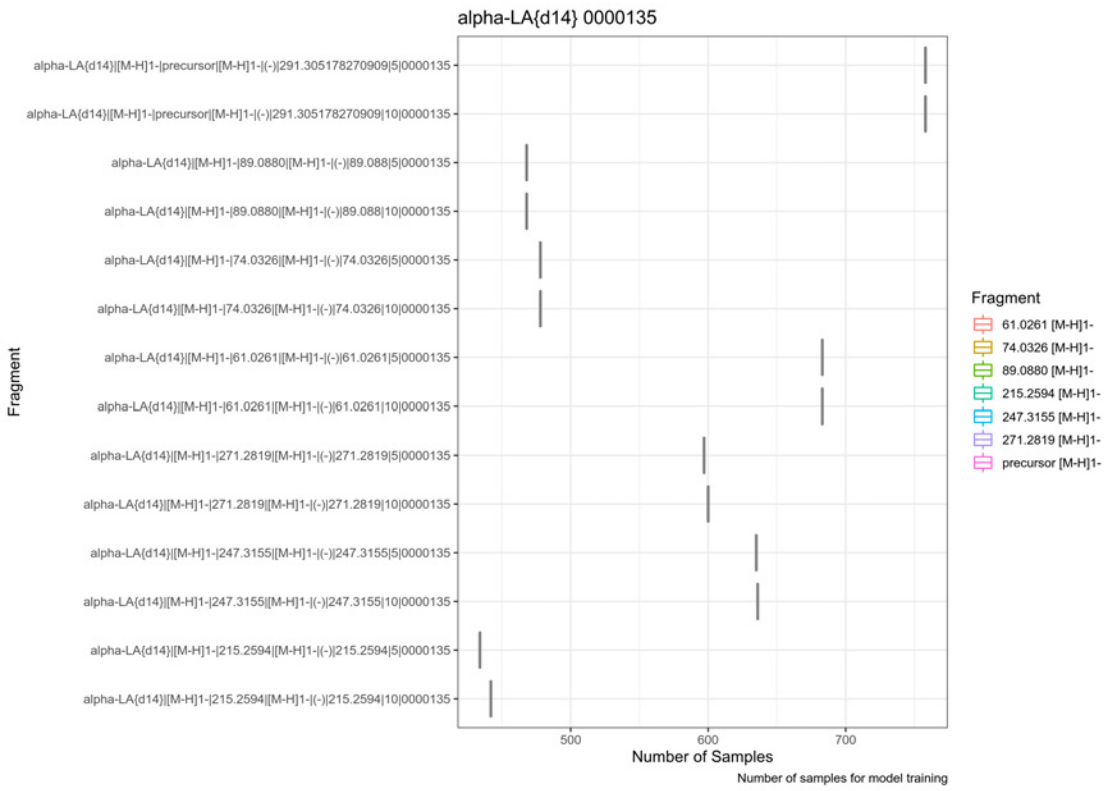


Figure 285. Number of samples used for training per combination Id

# 1.58. tetranor-12-HETE [M-H]1- 0001351

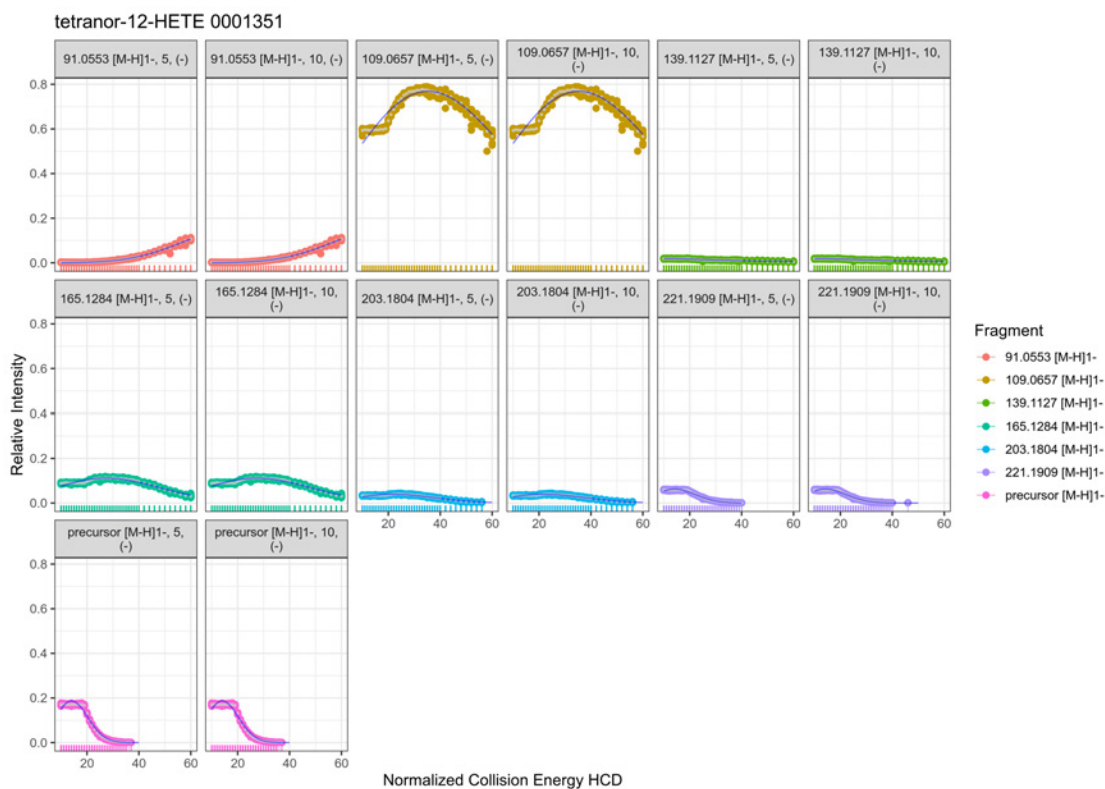


Figure 286. Nonlinear fit

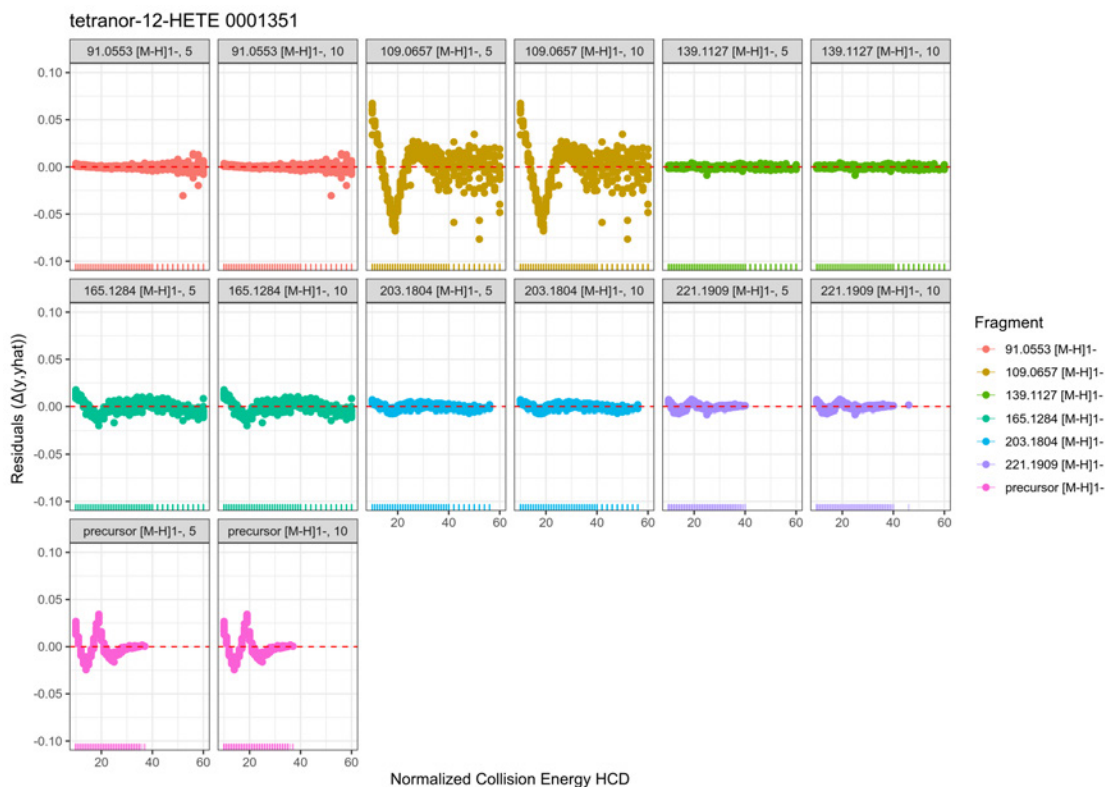


Figure 287. Residuals of nonlinear fit

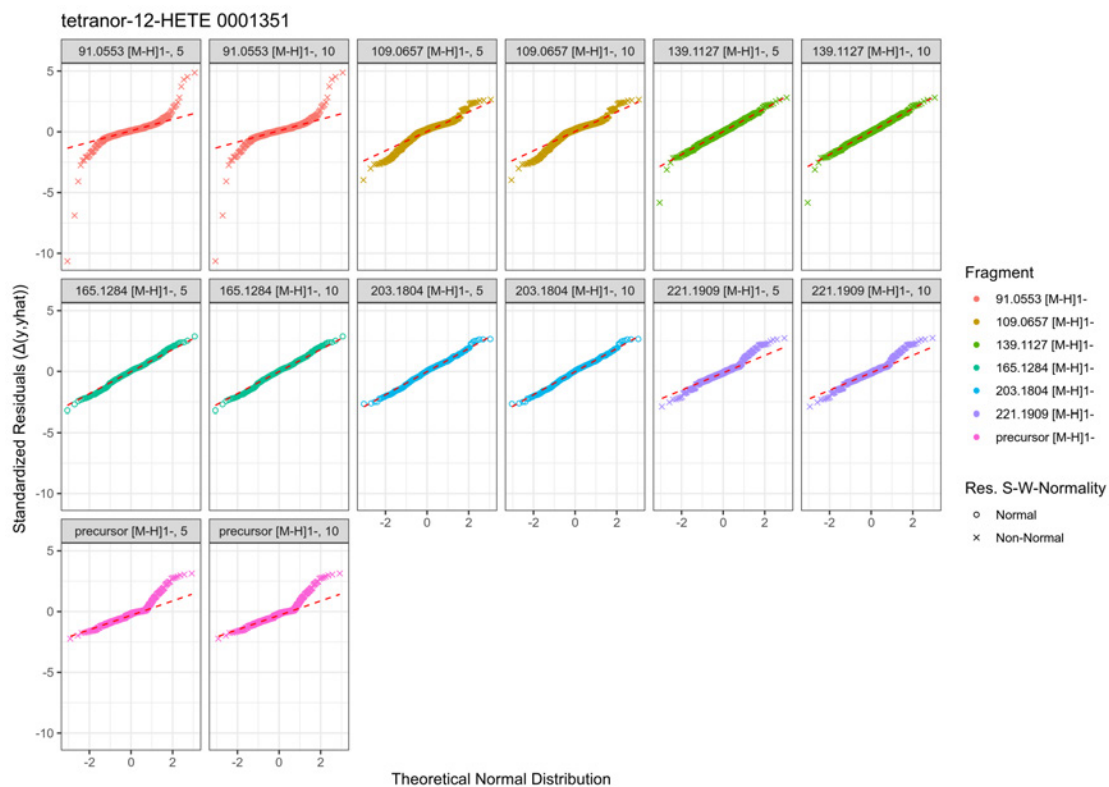


Figure 288. Quantile-quantile plot of residuals

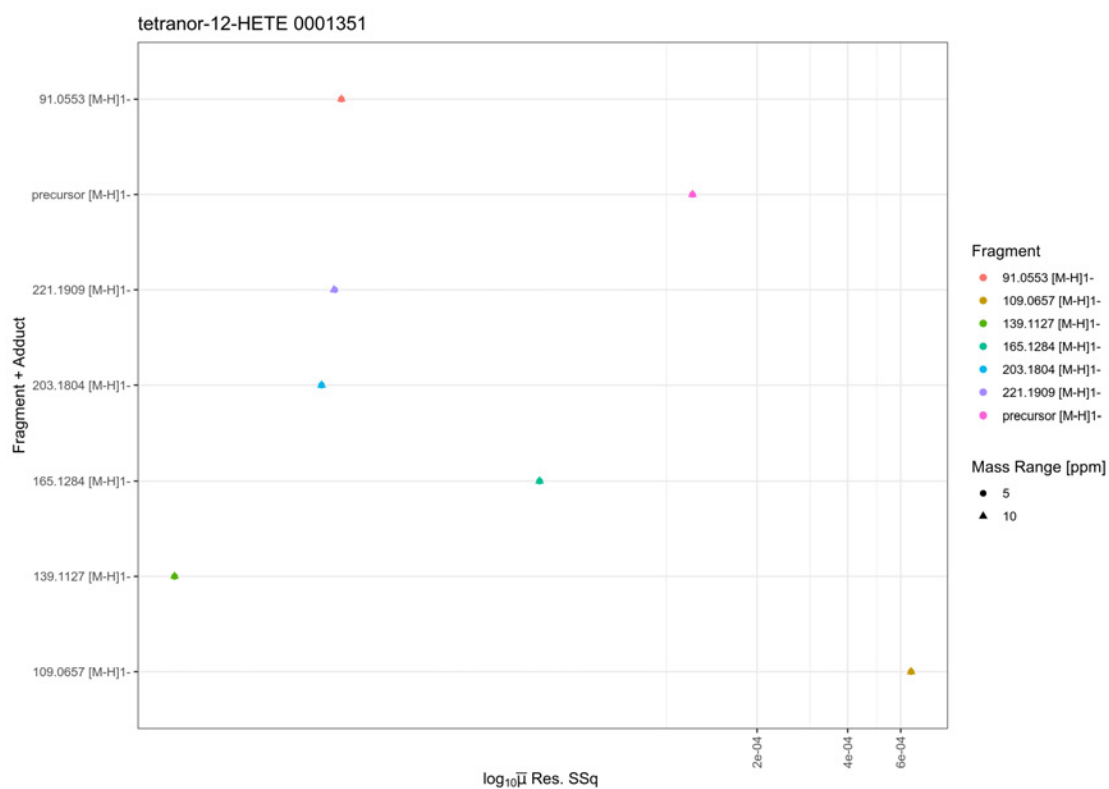


Figure 289. Normalized sum-of-squares of the residuals

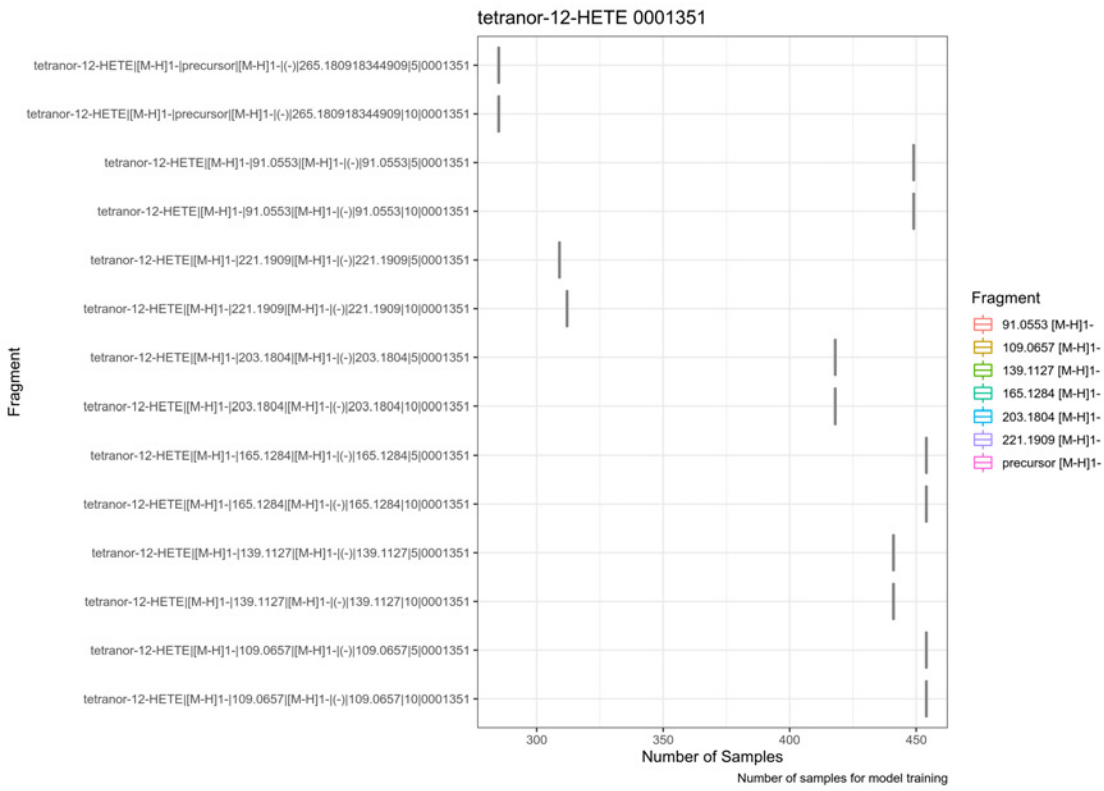


Figure 290. Number of samples used for training per combination Id