

Figure S-1. The peak height for every detected m/z in all 7 rainwater samples. There were 14,924 individual m/z 's detected in total.

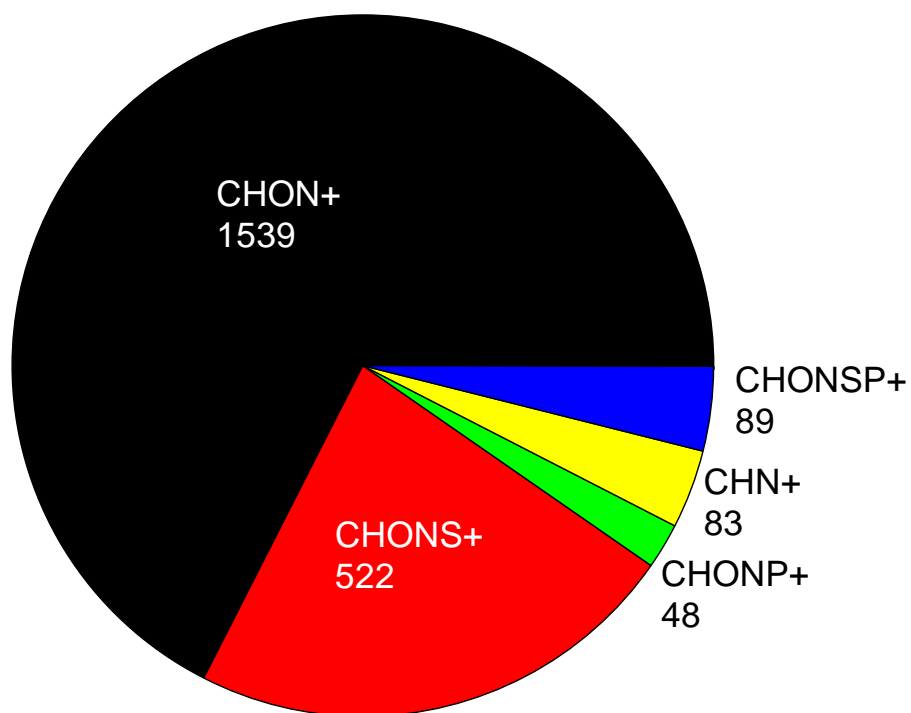


Figure S-2. Number of each type of N containing elemental formula (among 2281 N containing compounds) detected in the marine rainwater samples (positive ion mode m/z^+ 50-500).

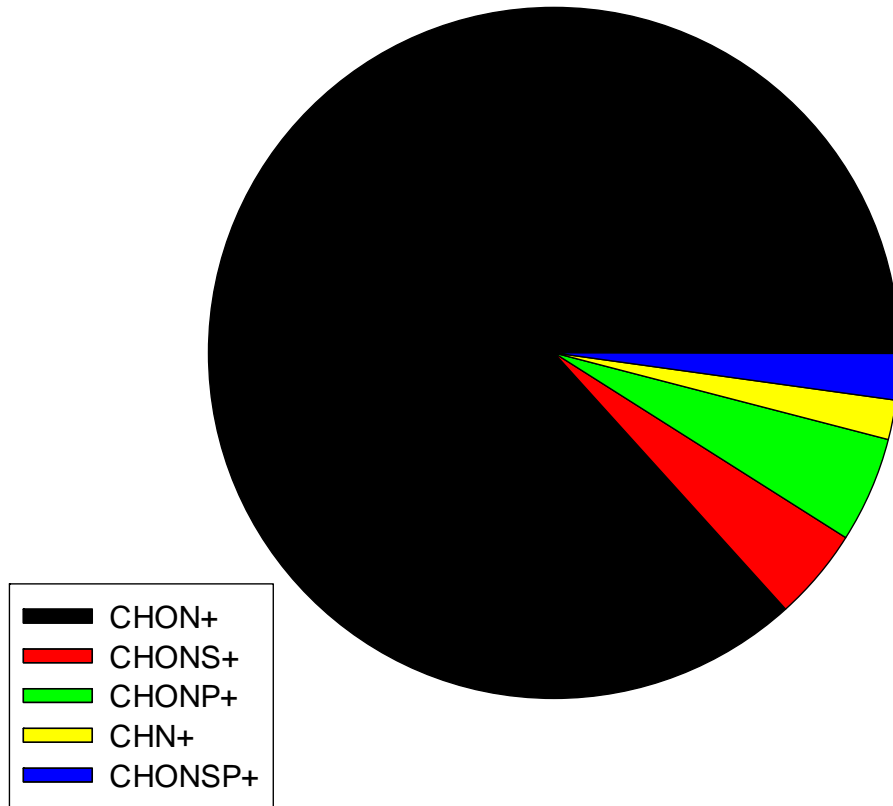


Figure S-3. Number of each type of N containing elemental formula detected in continental rainwater (positive ion mode m/z^+ 50-300). Modified from Altieri et al., 2009.

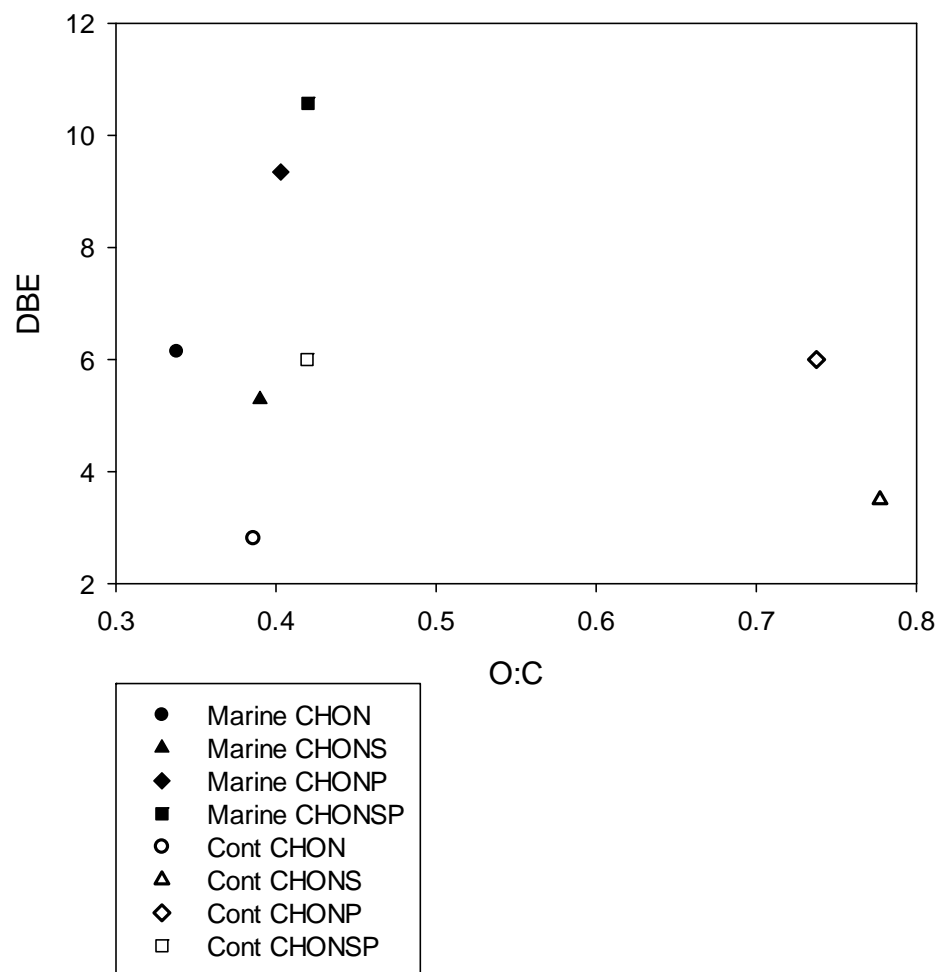


Figure S-4. Average (arithmetic mean) DBE vs. O:C for each N and O containing compound class.

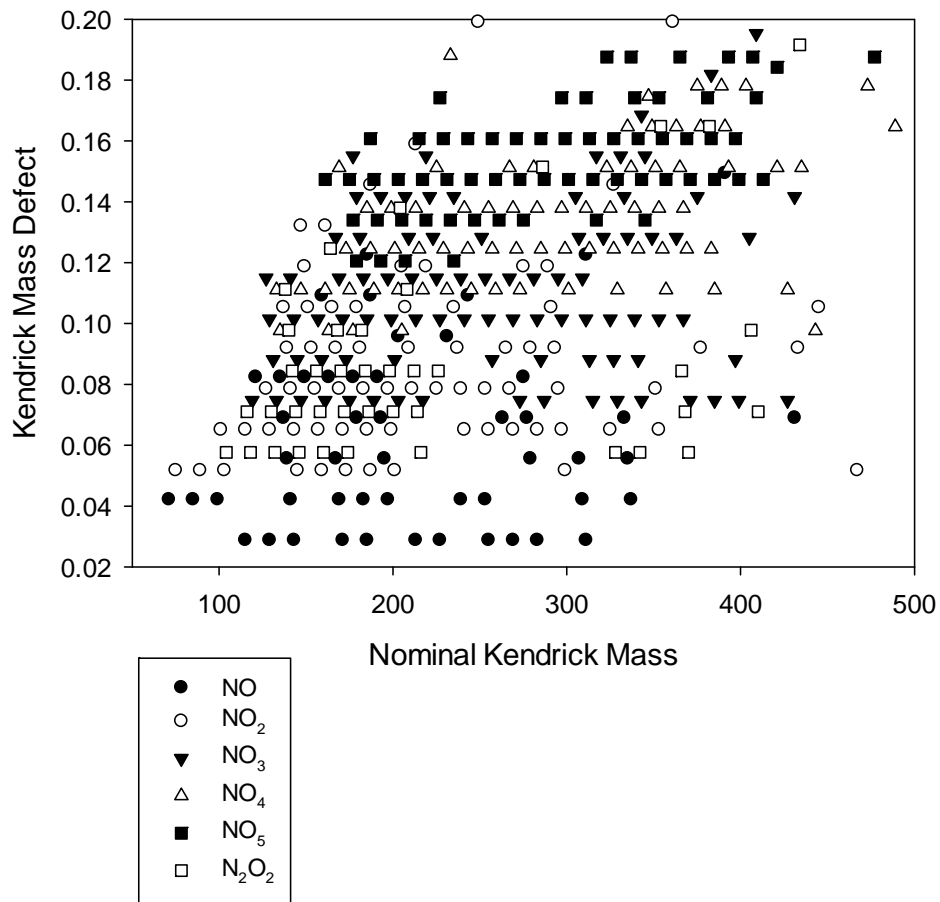


Figure S-5. Kendrick mass defect vs. nominal Kendrick mass (full mass range m/z^+ 50-500) for a subset of the CHON+ compounds (denoted in legend).

Table S-1. The measured m/z 's and calculated elemental formula for all N containing molecules in the 1 September 2009 rainwater sample.

| CHON+ | m/z^+ | Elemental Formula |
|--------------|---------------------------|--|
| | 76.039292 | C ₂ H ₅ O ₂ N ₁ |
| | 86.060026 | C ₄ H ₇ O ₁ N ₁ |
| | 100.075680 | C ₅ H ₉ O ₁ N ₁ |
| | 102.054973 | C ₄ H ₇ O ₂ N ₁ |
| | 104.070603 | C ₄ H ₉ O ₂ N ₁ |
| | 116.070608 | C ₅ H ₉ O ₂ N ₁ |
| | 128.070611 | C ₆ H ₉ O ₂ N ₁ |
| | 129.029430 | C ₄ H ₄ O ₃ N ₂ |
| | 130.122640 | C ₇ H ₁₅ O ₁ N ₁ |
| | 132.065512 | C ₅ H ₉ O ₃ N ₁ |
| | 133.097165 | C ₅ H ₁₂ O ₂ N ₂ |
| | 134.044792 | C ₄ H ₇ O ₄ N ₁ |
| | 136.075692 | C ₈ H ₉ O ₁ N ₁ |
| | 138.054944 | C ₇ H ₇ O ₂ N ₁ |
| | 138.088937 | C ₆ H ₁₃ O ₁ N ₁ |
| | 138.091356 | C ₈ H ₁₁ O ₁ N ₁ |
| | 139.047801 | C ₄ H ₈ O ₂ N ₂ |
| | 139.050208 | C ₆ H ₆ O ₂ N ₂ |
| | 139.084207 | C ₅ H ₁₂ O ₁ N ₂ |
| | 140.070600 | C ₇ H ₉ O ₂ N ₁ |
| | 141.102242 | C ₇ H ₁₂ O ₁ N ₂ |
| | 142.086255 | C ₇ H ₁₁ O ₂ N ₁ |
| | 143.081513 | C ₆ H ₁₀ O ₂ N ₂ |
| | 145.108375 | C ₅ H ₁₂ O ₁ N ₄ |
| | 146.092388 | C ₅ H ₁₁ O ₂ N ₃ |
| | 147.112795 | C ₆ H ₁₄ O ₂ N ₂ |
| | 148.039310 | C ₈ H ₅ O ₂ N ₁ |
| | 148.060432 | C ₅ H ₉ O ₄ N ₁ |
| | 150.091343 | C ₉ H ₁₁ O ₁ N ₁ |
| | 151.086598 | C ₈ H ₁₀ O ₁ N ₂ |
| | 152.056669 | C ₅ H ₅ O ₁ N ₅ |
| | 152.068202 | C ₆ H ₁₁ O ₂ N ₁ |
| | 152.070611 | C ₈ H ₉ O ₂ N ₁ |
| | 153.063465 | C ₅ H ₁₀ O ₂ N ₂ |
| | 154.086246 | C ₈ H ₁₁ O ₂ N ₁ |
| | 156.063101 | C ₅ H ₁₁ O ₃ N ₁ |
| | 156.076755 | C ₆ H ₉ O ₂ N ₃ |
| | 156.101904 | C ₈ H ₁₃ O ₂ N ₁ |
| | 157.097160 | C ₇ H ₁₂ O ₂ N ₂ |
| | 157.133540 | C ₈ H ₁₆ O ₁ N ₂ |
| | 158.081181 | C ₇ H ₁₁ O ₃ N ₁ |
| | 159.051292 | C ₄ H ₆ O ₃ N ₄ |
| | 159.076426 | C ₆ H ₁₀ O ₃ N ₂ |
| | 159.112804 | C ₇ H ₁₄ O ₂ N ₂ |

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|------------|----------------------|
| 160.108052 | $C_6H_{13}O_2N_3$ |
| 161.092083 | $C_6H_{12}O_3N_2$ |
| 162.054978 | $C_9H_7O_2N_1$ |
| 164.104590 | $C_8H_{15}O_1N_1$ |
| 164.107014 | $C_{10}H_{13}O_1N_1$ |
| 165.102261 | $C_9H_{12}O_1N_2$ |
| 166.047465 | $C_6H_9O_3N_1$ |
| 166.083858 | $C_7H_{13}O_2N_1$ |
| 166.120240 | $C_8H_{17}O_1N_1$ |
| 167.079090 | $C_6H_{12}O_2N_2$ |
| 168.063113 | $C_6H_{11}O_3N_1$ |
| 168.099501 | $C_7H_{15}O_2N_1$ |
| 168.101912 | $C_9H_{13}O_2N_1$ |
| 168.138317 | $C_{10}H_{17}O_1N_1$ |
| 169.097168 | $C_8H_{12}O_2N_2$ |
| 170.078765 | $C_6H_{13}O_3N_1$ |
| 170.153948 | $C_{10}H_{19}O_1N_1$ |
| 171.112833 | $C_8H_{14}O_2N_2$ |
| 173.092118 | $C_7H_{12}O_3N_2$ |
| 173.103336 | $C_6H_{12}O_2N_4$ |
| 174.087318 | $C_6H_{11}O_3N_3$ |
| 174.160097 | $C_8H_{19}O_1N_3$ |
| 175.107832 | $C_7H_{14}O_3N_2$ |
| 175.118958 | $C_6H_{14}O_2N_4$ |
| 178.122695 | $C_{11}H_{15}O_1N_1$ |
| 179.117899 | $C_{10}H_{14}O_1N_2$ |
| 180.099495 | $C_8H_{15}O_2N_1$ |
| 180.138267 | $C_{11}H_{17}O_1N_1$ |
| 181.081990 | $C_5H_{12}O_5N_2$ |
| 182.078757 | $C_7H_{13}O_3N_1$ |
| 182.081169 | $C_9H_{11}O_3N_1$ |
| 182.115152 | $C_8H_{17}O_2N_1$ |
| 182.117525 | $C_{10}H_{15}O_2N_1$ |
| 183.085379 | $C_5H_{12}O_2N_4$ |
| 183.112792 | $C_9H_{14}O_2N_2$ |
| 183.149208 | $C_{10}H_{18}O_1N_2$ |
| 184.058029 | $C_6H_{11}O_4N_1$ |
| 184.094410 | $C_7H_{15}O_3N_1$ |
| 184.169589 | $C_{11}H_{21}O_1N_1$ |
| 185.053275 | $C_5H_{10}O_4N_2$ |
| 185.128461 | $C_9H_{16}O_2N_2$ |
| 186.073677 | $C_6H_{13}O_4N_1$ |
| 186.091346 | $C_{12}H_{11}O_1N_1$ |
| 187.107710 | $C_8H_{14}O_3N_2$ |
| 187.144104 | $C_9H_{18}O_2N_2$ |
| 188.175738 | $C_9H_{21}O_1N_3$ |
| 189.123369 | $C_8H_{16}O_3N_2$ |
| 191.102666 | $C_7H_{14}O_4N_2$ |

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| 192.086640 | $C_7H_{13}O_5N_1$ |
| 192.099496 | $C_9H_{15}O_2N_1$ |
| 192.138302 | $C_{12}H_{17}O_1N_1$ |
| 193.081874 | $C_6H_{12}O_5N_2$ |
| 193.118285 | $C_7H_{16}O_4N_2$ |
| 193.129565 | $C_6H_{16}O_3N_4$ |
| 193.131138 | $C_9H_{18}O_1N_2$ |
| 194.078755 | $C_8H_{13}O_3N_1$ |
| 194.113407 | $C_6H_{15}O_4N_3$ |
| 194.115149 | $C_9H_{17}O_2N_1$ |
| 194.151544 | $C_{10}H_{21}O_1N_1$ |
| 194.153947 | $C_{12}H_{19}O_1N_1$ |
| 195.061124 | $C_5H_{10}O_6N_2$ |
| 195.097503 | $C_6H_{14}O_5N_2$ |
| 195.110381 | $C_8H_{16}O_2N_2$ |
| 196.058053 | $C_7H_{11}O_4N_1$ |
| 196.094403 | $C_8H_{15}O_3N_1$ |
| 196.130859 | $C_9H_{19}O_2N_1$ |
| 197.164851 | $C_{11}H_{20}O_1N_2$ |
| 198.073669 | $C_7H_{13}O_4N_1$ |
| 198.110069 | $C_8H_{17}O_3N_1$ |
| 198.123692 | $C_9H_{15}O_2N_3$ |
| 199.068961 | $C_6H_{12}O_4N_2$ |
| 199.144098 | $C_{10}H_{18}O_2N_2$ |
| 200.052906 | $C_6H_{11}O_5N_1$ |
| 200.089275 | $C_7H_{15}O_4N_1$ |
| 201.048142 | $C_5H_{10}O_5N_2$ |
| 201.102211 | $C_{12}H_{12}O_1N_2$ |
| 201.123358 | $C_9H_{16}O_3N_2$ |
| 201.159724 | $C_{10}H_{20}O_2N_2$ |
| 202.047463 | $C_9H_9O_3N_1$ |
| 202.068559 | $C_6H_{13}O_5N_1$ |
| 204.134267 | $C_8H_{17}O_3N_3$ |
| 206.078799 | $C_9H_{13}O_3N_1$ |
| 206.115111 | $C_{10}H_{17}O_2N_1$ |
| 206.117519 | $C_{12}H_{15}O_2N_1$ |
| 208.094392 | $C_9H_{15}O_3N_1$ |
| 208.105726 | $C_8H_{15}O_2N_3$ |
| 208.130782 | $C_{10}H_{19}O_2N_1$ |
| 208.167152 | $C_{11}H_{23}O_1N_1$ |
| 209.128488 | $C_{11}H_{16}O_2N_2$ |
| 210.073680 | $C_8H_{13}O_4N_1$ |
| 210.084902 | $C_7H_{13}O_3N_3$ |
| 210.089095 | $C_{12}H_{13}O_1N_1$ |
| 210.097236 | $C_7H_{15}O_6N_1$ |
| 210.112388 | $C_{11}H_{15}O_3N_1$ |
| 210.123671 | $C_{10}H_{15}O_2N_3$ |
| 210.146523 | $C_{10}H_{21}O_2N_1$ |

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| 210.148794 | $C_{12}H_{19}O_2N_1$ |
| 211.068934 | $C_7H_{12}O_4N_2$ |
| 212.052896 | $C_7H_{11}O_5N_1$ |
| 212.089280 | $C_8H_{15}O_4N_1$ |
| 212.125677 | $C_9H_{19}O_3N_1$ |
| 212.127968 | $C_{11}H_{17}O_3N_1$ |
| 213.098259 | $C_8H_{12}O_3N_4$ |
| 213.123474 | $C_{10}H_{16}O_3N_2$ |
| 213.159733 | $C_{11}H_{20}O_2N_2$ |
| 214.091098 | $C_5H_{13}O_3N_5$ |
| 214.216536 | $C_{13}H_{27}O_1N_1$ |
| 215.139169 | $C_{10}H_{18}O_3N_2$ |
| 216.063130 | $C_{10}H_{11}O_3N_1$ |
| 216.084239 | $C_7H_{15}O_5N_1$ |
| 216.170579 | $C_{10}H_{21}O_2N_3$ |
| 217.154842 | $C_{10}H_{20}O_3N_2$ |
| 218.151508 | $C_{12}H_{21}O_1N_1$ |
| 220.039232 | $C_{14}H_5O_2N_1$ |
| 220.094453 | $C_{10}H_{15}O_3N_1$ |
| 220.118020 | $C_9H_{17}O_5N_1$ |
| 220.130790 | $C_{11}H_{19}O_2N_1$ |
| 220.167168 | $C_{12}H_{23}O_1N_1$ |
| 222.073689 | $C_9H_{13}O_4N_1$ |
| 222.110036 | $C_{10}H_{17}O_3N_1$ |
| 222.112489 | $C_{12}H_{15}O_3N_1$ |
| 222.146431 | $C_{11}H_{21}O_2N_1$ |
| 224.089298 | $C_9H_{15}O_4N_1$ |
| 224.125726 | $C_{10}H_{19}O_3N_1$ |
| 224.128088 | $C_{12}H_{17}O_3N_1$ |
| 224.162108 | $C_{11}H_{23}O_2N_1$ |
| 225.098251 | $C_9H_{12}O_3N_4$ |
| 226.104948 | $C_9H_{17}O_4N_1$ |
| 226.141351 | $C_{10}H_{21}O_3N_1$ |
| 227.175434 | $C_{12}H_{22}O_2N_2$ |
| 228.084221 | $C_8H_{15}O_5N_1$ |
| 228.120620 | $C_9H_{19}O_4N_1$ |
| 228.232151 | $C_{14}H_{29}O_1N_1$ |
| 229.154801 | $C_{11}H_{20}O_3N_2$ |
| 230.115149 | $C_{12}H_{17}O_2N_1$ |
| 230.149843 | $C_{10}H_{19}O_3N_3$ |
| 230.186305 | $C_{11}H_{23}O_2N_3$ |
| 232.169553 | $C_{15}H_{21}O_1N_1$ |
| 234.146428 | $C_{12}H_{21}O_2N_1$ |
| 236.089296 | $C_{10}H_{15}O_4N_1$ |
| 236.125660 | $C_{11}H_{19}O_3N_1$ |
| 236.149257 | $C_{10}H_{21}O_5N_1$ |
| 236.164368 | $C_{14}H_{21}O_2N_1$ |
| 237.107206 | $C_7H_{14}O_2N_6$ |

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| 237.157317 | $C_{11}H_{22}O_2N_2$ |
| 238.104965 | $C_{10}H_{17}O_4N_1$ |
| 238.180137 | $C_{14}H_{23}O_2N_1$ |
| 240.120592 | $C_{10}H_{19}O_4N_1$ |
| 240.157003 | $C_{11}H_{23}O_3N_1$ |
| 240.159360 | $C_{13}H_{21}O_3N_1$ |
| 240.232235 | $C_{15}H_{29}O_1N_1$ |
| 242.063485 | $C_8H_{13}O_6N_1$ |
| 242.138627 | $C_{12}H_{19}O_4N_1$ |
| 244.079148 | $C_8H_{15}O_6N_1$ |
| 244.201941 | $C_{12}H_{25}O_2N_3$ |
| 245.075889 | $C_8H_{10}O_2N_6$ |
| 247.082606 | $C_{11}H_{10}O_3N_4$ |
| 248.125732 | $C_{12}H_{19}O_3N_1$ |
| 248.149201 | $C_{11}H_{21}O_5N_1$ |
| 248.162089 | $C_{13}H_{23}O_2N_1$ |
| 250.086245 | $C_{16}H_{11}O_2N_1$ |
| 250.141359 | $C_{12}H_{21}O_3N_1$ |
| 251.122841 | $C_8H_{16}O_2N_6$ |
| 252.084265 | $C_{10}H_{15}O_5N_1$ |
| 252.120598 | $C_{11}H_{19}O_4N_1$ |
| 252.159368 | $C_{14}H_{21}O_3N_1$ |
| 253.065590 | $C_6H_{10}O_4N_6$ |
| 253.069665 | $C_{11}H_{10}O_2N_4$ |
| 254.063430 | $C_9H_{13}O_6N_1$ |
| 254.136256 | $C_{11}H_{21}O_4N_1$ |
| 254.174927 | $C_{14}H_{23}O_3N_1$ |
| 254.247814 | $C_{16}H_{31}O_1N_1$ |
| 255.243025 | $C_{15}H_{30}O_1N_2$ |
| 256.079176 | $C_9H_{15}O_6N_1$ |
| 256.115493 | $C_{10}H_{19}O_5N_1$ |
| 256.263487 | $C_{16}H_{33}O_1N_1$ |
| 257.087015 | $C_8H_{10}O_1N_8$ |
| 259.102665 | $C_8H_{12}O_1N_8$ |
| 261.014207 | $C_{11}H_4O_6N_2$ |
| 261.118358 | $C_8H_{14}O_1N_8$ |
| 262.086193 | $C_{17}H_{11}O_2N_1$ |
| 262.130008 | $C_{12}H_{15}O_2N_5$ |
| 262.141326 | $C_{11}H_{15}O_1N_7$ |
| 262.177752 | $C_{14}H_{25}O_2N_1$ |
| 263.056191 | $C_{14}H_6O_2N_4$ |
| 263.122597 | $C_9H_{16}O_2N_6$ |
| 264.157052 | $C_{13}H_{23}O_3N_1$ |
| 264.193465 | $C_{14}H_{27}O_2N_1$ |
| 265.152320 | $C_{12}H_{22}O_3N_2$ |
| 265.227460 | $C_{16}H_{28}O_1N_2$ |
| 266.099885 | $C_{11}H_{17}O_5N_1$ |
| 266.123424 | $C_{10}H_{19}O_7N_1$ |

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| 266.136307 | $C_{12}H_{21}O_4N_1$ |
| 267.131543 | $C_{11}H_{20}O_4N_2$ |
| 268.079157 | $C_{10}H_{15}O_6N_1$ |
| 268.104053 | $C_{10}H_{13}O_4N_5$ |
| 268.151959 | $C_{12}H_{23}O_4N_1$ |
| 269.087026 | $C_9H_{10}O_1N_8$ |
| 269.147214 | $C_{11}H_{22}O_4N_2$ |
| 270.094869 | $C_{10}H_{17}O_6N_1$ |
| 270.279166 | $C_{17}H_{35}O_1N_1$ |
| 273.264896 | $C_{14}H_{32}O_1N_4$ |
| 274.049857 | $C_{17}H_7O_3N_1$ |
| 275.029941 | $C_{12}H_6O_6N_2$ |
| 275.133958 | $C_9H_{16}O_1N_8$ |
| 275.146484 | $C_9H_{18}O_4N_6$ |
| 276.193424 | $C_{15}H_{27}O_2N_1$ |
| 277.058081 | $C_{12}H_4O_1N_8$ |
| 277.071849 | $C_{15}H_8O_2N_4$ |
| 278.136387 | $C_{13}H_{21}O_4N_1$ |
| 278.172693 | $C_{14}H_{25}O_3N_1$ |
| 278.209112 | $C_{15}H_{29}O_2N_1$ |
| 278.247710 | $C_{18}H_{31}O_1N_1$ |
| 279.131675 | $C_{12}H_{20}O_4N_2$ |
| 280.115529 | $C_{10}H_{13}O_3N_7$ |
| 280.151978 | $C_{13}H_{23}O_4N_1$ |
| 280.188418 | $C_{14}H_{27}O_3N_1$ |
| 280.263528 | $C_{18}H_{33}O_1N_1$ |
| 281.147221 | $C_{12}H_{22}O_4N_2$ |
| 282.094863 | $C_{11}H_{17}O_6N_1$ |
| 282.167637 | $C_{13}H_{25}O_4N_1$ |
| 283.090161 | $C_{10}H_{16}O_6N_2$ |
| 284.294812 | $C_{18}H_{37}O_1N_1$ |
| 285.290098 | $C_{17}H_{36}O_1N_2$ |
| 286.049828 | $C_{18}H_7O_3N_1$ |
| 287.280552 | $C_{15}H_{34}O_1N_4$ |
| 288.193490 | $C_{16}H_{27}O_2N_1$ |
| 289.113367 | $C_9H_{14}O_2N_8$ |
| 289.259818 | $C_{14}H_{32}O_2N_4$ |
| 290.044735 | $C_{17}H_7O_4N_1$ |
| 290.136157 | $C_{14}H_{21}O_4N_1$ |
| 290.172686 | $C_{15}H_{25}O_3N_1$ |
| 290.209075 | $C_{16}H_{29}O_2N_1$ |
| 291.071403 | $C_{11}H_8O_1N_8$ |
| 291.141431 | $C_9H_{18}O_5N_6$ |
| 292.060421 | $C_{17}H_9O_4N_1$ |
| 292.152005 | $C_{14}H_{23}O_4N_1$ |
| 292.188336 | $C_{15}H_{27}O_3N_1$ |
| 292.224761 | $C_{16}H_{31}O_2N_1$ |
| 292.227044 | $C_{18}H_{29}O_2N_1$ |

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| 293.092056 | $C_{17}H_{12}O_3N_2$ |
| 294.131321 | $C_{13}H_{21}O_5N_1$ |
| 294.167608 | $C_{14}H_{25}O_4N_1$ |
| 296.110520 | $C_{12}H_{19}O_6N_1$ |
| 296.146928 | $C_{13}H_{23}O_5N_1$ |
| 296.183239 | $C_{14}H_{27}O_4N_1$ |
| 296.219702 | $C_{15}H_{31}O_3N_1$ |
| 296.221984 | $C_{17}H_{29}O_3N_1$ |
| 297.118371 | $C_{11}H_{14}O_1N_8$ |
| 298.089772 | $C_{11}H_{17}O_7N_1$ |
| 298.126120 | $C_{12}H_{21}O_6N_1$ |
| 298.162586 | $C_{13}H_{25}O_5N_1$ |
| 298.214121 | $C_{18}H_{29}O_1N_1$ |
| 299.079165 | $C_{17}H_{12}O_2N_2$ |
| 299.150406 | $C_{16}H_{18}O_2N_4$ |
| 299.157976 | $C_{12}H_{24}O_5N_2$ |
| 299.219282 | $C_{13}H_{26}O_2N_6$ |
| 301.136995 | $C_{11}H_{22}O_6N_2$ |
| 302.081415 | $C_{19}H_{11}O_3N_1$ |
| 303.156685 | $C_{14}H_{18}O_2N_6$ |
| 303.177760 | $C_{11}H_{22}O_4N_6$ |
| 303.275460 | $C_{15}H_{34}O_2N_4$ |
| 304.151836 | $C_{13}H_{17}O_2N_7$ |
| 305.099540 | $C_{12}H_{12}O_4N_6$ |
| 305.168224 | $C_9H_{20}O_4N_8$ |
| 305.172335 | $C_{14}H_{20}O_2N_6$ |
| 306.076004 | $C_{18}H_{11}O_4N_1$ |
| 306.167744 | $C_{15}H_{25}O_4N_1$ |
| 306.204182 | $C_{16}H_{29}O_3N_1$ |
| 306.240340 | $C_{17}H_{33}O_2N_1$ |
| 307.115214 | $C_{12}H_{14}O_4N_6$ |
| 307.183922 | $C_9H_{22}O_4N_8$ |
| 307.187988 | $C_{14}H_{22}O_2N_6$ |
| 307.256508 | $C_{11}H_{30}O_2N_8$ |
| 308.146896 | $C_{14}H_{23}O_5N_1$ |
| 308.183312 | $C_{15}H_{27}O_4N_1$ |
| 308.219815 | $C_{16}H_{31}O_3N_1$ |
| 309.157348 | $C_{17}H_{22}O_2N_2$ |
| 310.162478 | $C_{14}H_{25}O_5N_1$ |
| 310.171155 | $C_9H_{21}O_2N_9$ |
| 310.235425 | $C_{16}H_{33}O_3N_1$ |
| 310.310463 | $C_{20}H_{39}O_1N_1$ |
| 311.157732 | $C_{13}H_{24}O_5N_2$ |
| 311.219270 | $C_{14}H_{26}O_2N_6$ |
| 312.326108 | $C_{20}H_{41}O_1N_1$ |
| 313.173410 | $C_{13}H_{26}O_5N_2$ |
| 314.196146 | $C_{16}H_{27}O_5N_1$ |
| 314.232583 | $C_{17}H_{31}O_4N_1$ |

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| 315.131571 | $C_{15}H_{20}O_4N_2$ |
| 315.138763 | $C_9H_{20}O_5N_6$ |
| 315.152699 | $C_{12}H_{24}O_6N_2$ |
| 316.123604 | $C_{10}H_{21}O_{10}N_1$ |
| 316.139099 | $C_{14}H_{21}O_7N_1$ |
| 316.224708 | $C_{18}H_{31}O_2N_1$ |
| 317.168189 | $C_{12}H_{26}O_6N_2$ |
| 317.172330 | $C_{15}H_{20}O_2N_6$ |
| 317.193467 | $C_{12}H_{24}O_4N_6$ |
| 317.208750 | $C_{16}H_{24}O_1N_6$ |
| 318.164831 | $C_{12}H_{21}O_2N_7$ |
| 318.191124 | $C_{15}H_{27}O_6N_1$ |
| 318.235887 | $C_{11}H_{27}O_2N_9$ |
| 318.240357 | $C_{18}H_{33}O_2N_1$ |
| 319.136343 | $C_{10}H_{18}O_6N_6$ |
| 319.151602 | $C_{14}H_{18}O_3N_6$ |
| 319.172727 | $C_{11}H_{22}O_5N_6$ |
| 320.146876 | $C_{15}H_{23}O_5N_1$ |
| 320.183360 | $C_{16}H_{27}O_4N_1$ |
| 320.219687 | $C_{17}H_{31}O_3N_1$ |
| 320.251549 | $C_{11}H_{29}O_2N_9$ |
| 320.256021 | $C_{18}H_{35}O_2N_1$ |
| 321.130891 | $C_{13}H_{16}O_4N_6$ |
| 321.151990 | $C_{10}H_{20}O_6N_6$ |
| 321.167253 | $C_{14}H_{20}O_3N_6$ |
| 321.188315 | $C_{11}H_{24}O_5N_6$ |
| 322.162544 | $C_{15}H_{25}O_5N_1$ |
| 322.199054 | $C_{16}H_{29}O_4N_1$ |
| 322.237607 | $C_{19}H_{31}O_3N_1$ |
| 322.271717 | $C_{18}H_{37}O_2N_1$ |
| 323.159926 | $C_{16}H_{22}O_5N_2$ |
| 324.128974 | $C_{12}H_{21}O_9N_1$ |
| 324.141887 | $C_{14}H_{23}O_6N_1$ |
| 324.178242 | $C_{15}H_{27}O_5N_1$ |
| 324.207047 | $C_{20}H_{25}O_1N_3$ |
| 324.210374 | $C_9H_{25}O_4N_9$ |
| 324.214362 | $C_{16}H_{31}O_4N_1$ |
| 325.149640 | $C_{13}H_{18}O_1N_8$ |
| 325.271349 | $C_{16}H_{32}O_1N_6$ |
| 325.321345 | $C_{20}H_{40}O_1N_2$ |
| 326.157556 | $C_{14}H_{25}O_6N_1$ |
| 326.165674 | $C_9H_{21}O_3N_9$ |
| 326.232565 | $C_{18}H_{31}O_4N_1$ |
| 328.173084 | $C_{14}H_{27}O_6N_1$ |
| 328.211838 | $C_{17}H_{29}O_5N_1$ |
| 328.248271 | $C_{18}H_{33}O_4N_1$ |
| 328.284630 | $C_{19}H_{37}O_3N_1$ |
| 329.229806 | $C_{14}H_{28}O_3N_6$ |

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| 330.204015 | $C_{18}H_{29}O_3N_1$ |
| 330.227513 | $C_{17}H_{31}O_5N_1$ |
| 330.300307 | $C_{19}H_{39}O_3N_1$ |
| 331.151625 | $C_{15}H_{18}O_3N_6$ |
| 332.134025 | $C_{14}H_{21}O_8N_1$ |
| 332.219695 | $C_{18}H_{31}O_3N_1$ |
| 333.084440 | $C_{17}H_{14}O_4N_2$ |
| 333.162992 | $C_{12}H_{26}O_7N_2$ |
| 333.167270 | $C_{15}H_{20}O_3N_6$ |
| 334.162536 | $C_{16}H_{25}O_5N_1$ |
| 334.199022 | $C_{17}H_{29}O_4N_1$ |
| 334.214358 | $C_{21}H_{29}O_1N_1$ |
| 334.230702 | $C_{11}H_{27}O_3N_9$ |
| 334.235330 | $C_{18}H_{33}O_3N_1$ |
| 335.167676 | $C_{11}H_{22}O_6N_6$ |
| 336.128765 | $C_{13}H_{21}O_9N_1$ |
| 336.228011 | $C_{18}H_{29}O_3N_3$ |
| 336.253123 | $C_{20}H_{33}O_3N_1$ |
| 337.069680 | $C_{18}H_{10}O_2N_4$ |
| 338.074562 | $C_{15}H_{13}O_5N_3$ |
| 338.143409 | $C_{12}H_{21}O_5N_5$ |
| 338.157661 | $C_{15}H_{25}O_6N_1$ |
| 338.196068 | $C_{18}H_{27}O_5N_1$ |
| 338.266642 | $C_{18}H_{37}O_3N_1$ |
| 340.173022 | $C_{13}H_{21}O_4N_7$ |
| 340.188202 | $C_{19}H_{27}O_3N_1$ |
| 340.248287 | $C_{19}H_{33}O_4N_1$ |
| 340.284599 | $C_{20}H_{37}O_3N_1$ |
| 341.144583 | $C_{13}H_{18}O_2N_8$ |
| 341.266270 | $C_{16}H_{32}O_2N_6$ |
| 342.227472 | $C_{18}H_{31}O_5N_1$ |
| 342.263968 | $C_{19}H_{35}O_4N_1$ |
| 342.300327 | $C_{20}H_{39}O_3N_1$ |
| 343.113628 | $C_{14}H_{18}O_8N_2$ |
| 343.331898 | $C_{20}H_{42}O_2N_2$ |
| 344.206798 | $C_{17}H_{29}O_6N_1$ |
| 344.243177 | $C_{18}H_{33}O_5N_1$ |
| 344.315972 | $C_{20}H_{41}O_3N_1$ |
| 345.032914 | $C_{13}H_{10}O_8N_2$ |
| 345.125176 | $C_9H_{20}O_{10}N_4$ |
| 346.157174 | $C_9H_{23}O_9N_5$ |
| 346.162507 | $C_{17}H_{25}O_5N_1$ |
| 346.180196 | $C_{23}H_{23}O_2N_1$ |
| 346.199003 | $C_{18}H_{29}O_4N_1$ |
| 346.258757 | $C_{18}H_{35}O_5N_1$ |
| 347.100188 | $C_{18}H_{16}O_4N_2$ |
| 347.192401 | $C_{14}H_{26}O_6N_4$ |
| 347.230523 | $C_{18}H_{32}O_3N_2$ |

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| 348.103536 | $C_{12}H_{17}O_9N_3$ |
| 348.129110 | $C_{14}H_{21}O_9N_1$ |
| 348.250939 | $C_{19}H_{35}O_3N_1$ |
| 349.110452 | $C_{10}H_{16}O_8N_6$ |
| 349.183301 | $C_{12}H_{24}O_6N_6$ |
| 349.218057 | $C_{12}H_{26}O_1N_{10}$ |
| 350.144613 | $C_{14}H_{23}O_9N_1$ |
| 350.209189 | $C_{21}H_{29}O_2N_1$ |
| 350.238836 | $C_{13}H_{29}O_1N_9$ |
| 350.241324 | $C_{15}H_{27}O_1N_9$ |
| 350.263978 | $C_{15}H_{33}O_1N_7$ |
| 350.269012 | $C_{21}H_{35}O_3N_1$ |
| 350.273680 | $C_{11}H_{31}O_2N_{11}$ |
| 350.981917 | $C_9H_4O_{10}N_4$ |
| 351.077389 | $C_9H_{12}O_6N_8$ |
| 352.090175 | $C_{16}H_{15}O_5N_3$ |
| 352.173098 | $C_{16}H_{27}O_6N_1$ |
| 352.223030 | $C_{18}H_{29}O_4N_3$ |
| 352.245903 | $C_{18}H_{35}O_4N_1$ |
| 353.025330 | $C_{13}H_8O_{10}N_2$ |
| 353.144692 | $C_{14}H_{18}O_2N_8$ |
| 353.157145 | $C_{14}H_{20}O_5N_6$ |
| 353.352704 | $C_{22}H_{44}O_1N_2$ |
| 354.148831 | $C_{24}H_{19}O_2N_1$ |
| 354.152153 | $C_{15}H_{25}O_7N_1$ |
| 354.188894 | $C_{16}H_{29}O_6N_1$ |
| 354.227578 | $C_{19}H_{31}O_5N_1$ |
| 354.264029 | $C_{20}H_{35}O_4N_1$ |
| 354.300383 | $C_{21}H_{39}O_3N_1$ |
| 354.336667 | $C_{22}H_{43}O_2N_1$ |
| 355.306743 | $C_{19}H_{38}O_2N_4$ |
| 356.069542 | $C_9H_9O_7N_9$ |
| 356.091736 | $C_{22}H_{13}O_4N_1$ |
| 356.152657 | $C_9H_{21}O_8N_7$ |
| 356.243249 | $C_{19}H_{33}O_5N_1$ |
| 357.236150 | $C_{16}H_{34}O_5N_2$ |
| 357.261159 | $C_{16}H_{32}O_3N_6$ |
| 358.199040 | $C_{19}H_{29}O_4N_1$ |
| 358.222478 | $C_{18}H_{31}O_6N_1$ |
| 358.258853 | $C_{19}H_{35}O_5N_1$ |
| 358.295325 | $C_{20}H_{39}O_4N_1$ |
| 358.308214 | $C_{22}H_{41}O_1N_1$ |
| 359.194254 | $C_{18}H_{28}O_4N_2$ |
| 359.232633 | $C_{21}H_{30}O_3N_2$ |
| 360.214849 | $C_{19}H_{31}O_4N_1$ |
| 360.323769 | $C_{22}H_{43}O_1N_1$ |
| 361.149699 | $C_{16}H_{18}O_1N_8$ |
| 362.157580 | $C_{17}H_{25}O_6N_1$ |

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| 362.191255 | C ₁₄ H ₂₅ O ₃ N ₇ |
| 362.193551 | C ₁₈ H ₂₉ O ₅ N ₁ |
| 362.211552 | C ₂₄ H ₂₇ O ₂ N ₁ |
| 362.241092 | C ₁₆ H ₂₇ O ₁ N ₉ |
| 363.225496 | C ₁₈ H ₃₂ O ₄ N ₂ |
| 364.209500 | C ₁₆ H ₂₅ O ₃ N ₇ |
| 364.218112 | C ₁₃ H ₂₇ O ₂ N ₉ |
| 364.248310 | C ₂₁ H ₃₃ O ₄ N ₁ |
| 364.284706 | C ₂₂ H ₃₇ O ₃ N ₁ |
| 365.142910 | C ₁₄ H ₂₂ O ₆ N ₄ |
| 365.241100 | C ₁₈ H ₃₄ O ₄ N ₂ |
| 365.263652 | C ₁₆ H ₃₄ O ₂ N ₆ |
| 365.277534 | C ₁₉ H ₃₈ O ₃ N ₂ |
| 366.197012 | C ₁₂ H ₂₅ O ₃ N ₉ |
| 366.225128 | C ₁₆ H ₂₇ O ₃ N ₇ |
| 366.264037 | C ₂₁ H ₃₅ O ₄ N ₁ |
| 366.268618 | C ₁₁ H ₃₁ O ₃ N ₁₁ |
| 367.101094 | C ₁₆ H ₁₆ O ₅ N ₄ |
| 367.143507 | C ₁₀ H ₂₄ O ₉ N ₄ |
| 367.332147 | C ₂₂ H ₄₂ O ₂ N ₂ |
| 368.204049 | C ₁₇ H ₃₁ O ₆ N ₁ |
| 368.240737 | C ₁₆ H ₂₉ O ₃ N ₇ |
| 368.279601 | C ₂₁ H ₃₇ O ₄ N ₁ |
| 368.316121 | C ₂₂ H ₄₁ O ₃ N ₁ |
| 369.104273 | C ₁₄ H ₁₆ O ₈ N ₄ |
| 369.113704 | C ₁₂ H ₂₀ O ₁₁ N ₂ |
| 369.297599 | C ₁₈ H ₃₆ O ₂ N ₆ |
| 369.347804 | C ₂₂ H ₄₄ O ₂ N ₂ |
| 370.141370 | C ₂₂ H ₂₁ O ₃ N ₁ |
| 370.222774 | C ₁₉ H ₃₁ O ₆ N ₁ |
| 370.258898 | C ₂₀ H ₃₅ O ₅ N ₁ |
| 370.295149 | C ₂₁ H ₃₉ O ₄ N ₁ |
| 371.092846 | C ₂₄ H ₁₀ O ₁ N ₄ |
| 371.096119 | C ₁₅ H ₁₆ O ₆ N ₄ |
| 371.196312 | C ₂₁ H ₂₆ O ₄ N ₂ |
| 371.227651 | C ₁₆ H ₂₈ O ₁ N ₈ |
| 371.326803 | C ₂₁ H ₄₂ O ₃ N ₂ |
| 371.363307 | C ₂₂ H ₄₆ O ₂ N ₂ |
| 372.201860 | C ₁₈ H ₂₉ O ₇ N ₁ |
| 372.214318 | C ₂₀ H ₃₁ O ₄ N ₁ |
| 372.238157 | C ₁₉ H ₃₃ O ₆ N ₁ |
| 372.274478 | C ₂₀ H ₃₇ O ₅ N ₁ |
| 373.115327 | C ₁₈ H ₁₂ O ₂ N ₈ |
| 374.211603 | C ₂₅ H ₂₇ O ₂ N ₁ |
| 374.230200 | C ₂₀ H ₃₃ O ₄ N ₁ |
| 374.303077 | C ₂₂ H ₄₁ O ₂ N ₁ |
| 375.208981 | C ₁₂ H ₂₄ O ₁ N ₁₂ |
| 375.235355 | C ₁₅ H ₃₀ O ₅ N ₆ |

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| 375.259277 | C ₁₆ H ₃₂ O ₁ N ₈ |
| 376.209358 | C ₁₇ H ₂₅ O ₃ N ₇ |
| 376.217967 | C ₁₄ H ₂₇ O ₂ N ₉ |
| 376.245616 | C ₁₈ H ₂₉ O ₂ N ₇ |
| 376.254438 | C ₁₅ H ₃₁ O ₁ N ₉ |
| 376.284791 | C ₂₃ H ₃₇ O ₃ N ₁ |
| 377.181004 | C ₁₇ H ₂₂ O ₁ N ₈ |
| 377.219749 | C ₂₂ H ₃₀ O ₂ N ₂ |
| 378.184538 | C ₁₃ H ₂₉ O ₈ N ₃ |
| 378.188789 | C ₁₈ H ₂₉ O ₆ N ₁ |
| 378.225051 | C ₁₇ H ₂₇ O ₃ N ₇ |
| 378.235931 | C ₁₆ H ₂₇ O ₂ N ₉ |
| 378.261196 | C ₂₀ H ₃₇ O ₄ N ₁ |
| 378.264070 | C ₂₂ H ₃₅ O ₄ N ₁ |
| 379.220559 | C ₁₈ H ₃₂ O ₅ N ₂ |
| 379.256825 | C ₁₉ H ₃₆ O ₄ N ₂ |
| 380.127773 | C ₂₅ H ₁₇ O ₃ N ₁ |
| 380.240704 | C ₁₇ H ₂₉ O ₃ N ₇ |
| 380.277162 | C ₁₈ H ₃₃ O ₂ N ₇ |
| 381.100387 | C ₁₀ H ₁₆ O ₁₀ N ₆ |
| 381.164640 | C ₁₇ H ₂₂ O ₃ N ₆ |
| 381.236097 | C ₁₈ H ₃₄ O ₅ N ₂ |
| 381.333944 | C ₂₀ H ₄₀ O ₁ N ₆ |
| 382.220018 | C ₁₈ H ₃₃ O ₆ N ₁ |
| 382.258971 | C ₂₁ H ₃₅ O ₅ N ₁ |
| 383.144167 | C ₁₆ H ₂₀ O ₄ N ₆ |
| 383.262346 | C ₁₅ H ₃₀ O ₂ N ₁₀ |
| 383.276864 | C ₁₈ H ₃₄ O ₃ N ₆ |
| 383.313165 | C ₁₉ H ₃₈ O ₂ N ₆ |
| 383.399640 | C ₂₄ H ₅₀ O ₁ N ₂ |
| 384.197599 | C ₁₄ H ₂₉ O ₉ N ₃ |
| 384.253394 | C ₂₄ H ₃₃ O ₃ N ₁ |
| 384.274612 | C ₂₁ H ₃₇ O ₅ N ₁ |
| 384.310958 | C ₂₂ H ₄₁ O ₄ N ₁ |
| 385.146943 | C ₁₄ H ₂₀ O ₇ N ₆ |
| 385.196546 | C ₁₈ H ₂₈ O ₇ N ₂ |
| 385.226255 | C ₁₀ H ₂₈ O ₆ N ₁₀ |
| 385.292514 | C ₁₈ H ₃₆ O ₃ N ₆ |
| 385.342495 | C ₂₂ H ₄₄ O ₃ N ₂ |
| 386.232932 | C ₂₃ H ₃₁ O ₄ N ₁ |
| 386.253901 | C ₂₀ H ₃₅ O ₆ N ₁ |
| 387.087295 | C ₁₀ H ₁₆ O ₉ N ₆ |
| 387.198972 | C ₁₅ H ₂₆ O ₆ N ₆ |
| 387.264147 | C ₂₃ H ₃₄ O ₃ N ₂ |
| 388.079022 | C ₂₀ H ₁₅ O ₆ N ₁ |
| 388.209365 | C ₂₀ H ₃₁ O ₅ N ₁ |
| 388.226750 | C ₂₆ H ₂₉ O ₂ N ₁ |
| 388.232955 | C ₁₉ H ₃₃ O ₇ N ₁ |

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| 389.251082 | $C_{16}H_{32}O_5N_6$ |
| 389.274928 | $C_{17}H_{34}O_1N_8$ |
| 390.183111 | $C_{26}H_{25}O_1N_1$ |
| 390.194380 | $C_{10}H_{27}O_9N_7$ |
| 390.233400 | $C_{15}H_{29}O_2N_9$ |
| 390.260926 | $C_{19}H_{31}O_2N_7$ |
| 390.297851 | $C_{20}H_{35}O_1N_7$ |
| 391.126188 | $C_{20}H_{20}O_5N_2$ |
| 391.290578 | $C_{17}H_{36}O_1N_8$ |
| 392.212732 | $C_{14}H_{27}O_3N_9$ |
| 392.240636 | $C_{18}H_{29}O_3N_7$ |
| 393.194994 | $C_{11}H_{24}O_6N_{10}$ |
| 393.209575 | $C_{14}H_{28}O_7N_6$ |
| 393.308757 | $C_{19}H_{36}O_1N_8$ |
| 394.212948 | $C_{10}H_{29}O_6N_9$ |
| 394.256260 | $C_{18}H_{31}O_3N_7$ |
| 394.329149 | $C_{22}H_{45}O_3N_1$ |
| 395.062313 | $C_{18}H_{10}O_7N_4$ |
| 395.214612 | $C_{16}H_{26}O_4N_8$ |
| 396.123038 | $C_{25}H_{17}O_4N_1$ |
| 396.141716 | $C_{20}H_{23}O_6N_1$ |
| 396.989890 | $C_{12}H_4O_{12}N_4$ |
| 397.041724 | $C_{17}H_8O_8N_4$ |
| 397.153790 | $C_{11}H_{26}O_{10}N_4$ |
| 397.230637 | $C_{18}H_{34}O_6N_2$ |
| 397.389957 | $C_{23}H_{48}O_1N_4$ |
| 398.207489 | $C_{22}H_{27}O_4N_3$ |
| 398.214938 | $C_{18}H_{33}O_7N_1$ |
| 398.230440 | $C_{22}H_{33}O_4N_1$ |
| 398.253945 | $C_{21}H_{35}O_6N_1$ |
| 398.290061 | $C_{22}H_{39}O_5N_1$ |
| 399.202642 | $C_{21}H_{26}O_4N_4$ |
| 399.308119 | $C_{19}H_{38}O_3N_6$ |
| 400.167395 | $C_{12}H_{25}O_{10}N_5$ |
| 400.269663 | $C_{21}H_{37}O_6N_1$ |
| 400.311815 | $C_{15}H_{39}O_2N_9$ |
| 400.378586 | $C_{24}H_{49}O_3N_1$ |
| 401.166849 | $C_{16}H_{24}O_8N_4$ |
| 401.221274 | $C_{10}H_{28}O_7N_{10}$ |
| 401.257557 | $C_{11}H_{32}O_6N_{10}$ |
| 402.243469 | $C_{14}H_{33}O_5N_7$ |
| 403.290752 | $C_{18}H_{36}O_1N_8$ |
| 404.198749 | $C_{27}H_{27}O_1N_1$ |
| 406.237813 | $C_{26}H_{31}O_3N_1$ |
| 406.292188 | $C_{20}H_{35}O_2N_7$ |
| 406.316423 | $C_{21}H_{43}O_6N_1$ |
| 406.331726 | $C_{25}H_{43}O_3N_1$ |
| 407.138845 | $C_{26}H_{18}O_3N_2$ |

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| 407.141003 | $C_{14}H_{22}O_{10}N_4$ |
| 407.363375 | $C_{25}H_{46}O_2N_2$ |
| 408.123184 | $C_{26}H_{17}O_4N_1$ |
| 408.207344 | $C_{27}H_{25}O_1N_3$ |
| 408.272005 | $C_{21}H_{39}O_5N_1$ |
| 409.114337 | $C_{20}H_{16}O_6N_4$ |
| 409.165430 | $C_{11}H_{26}O_9N_6$ |
| 409.166270 | $C_{25}H_{20}O_2N_4$ |
| 409.207351 | $C_{18}H_{26}O_2N_8$ |
| 410.102268 | $C_{25}H_{15}O_5N_1$ |
| 410.290274 | $C_{23}H_{39}O_5N_1$ |
| 411.093800 | $C_{19}H_{14}O_7N_4$ |
| 411.169470 | $C_{12}H_{28}O_{10}N_4$ |
| 411.186520 | $C_{17}H_{24}O_3N_8$ |
| 411.430988 | $C_{26}H_{54}O_1N_2$ |
| 412.245778 | $C_{23}H_{35}O_4N_1$ |
| 413.214650 | $C_{17}H_{28}O_6N_6$ |
| 413.248977 | $C_{17}H_{36}O_9N_2$ |
| 413.249391 | $C_{17}H_{30}O_1N_{10}$ |
| 413.272961 | $C_{16}H_{32}O_3N_{10}$ |
| 413.323814 | $C_{20}H_{40}O_3N_6$ |
| 414.225026 | $C_{22}H_{33}O_5N_1$ |
| 414.285045 | $C_{22}H_{39}O_6N_1$ |
| 414.321419 | $C_{23}H_{43}O_5N_1$ |
| 414.327615 | $C_{16}H_{41}O_2N_9$ |
| 415.182473 | $C_{17}H_{26}O_8N_4$ |
| 415.273224 | $C_{12}H_{34}O_6N_{10}$ |
| 415.303095 | $C_{19}H_{38}O_4N_6$ |
| 416.240491 | $C_{22}H_{35}O_5N_1$ |
| 416.277004 | $C_{23}H_{39}O_4N_1$ |
| 417.119499 | $C_{22}H_{16}O_5N_4$ |
| 417.306187 | $C_{19}H_{38}O_1N_8$ |
| 418.214413 | $C_{28}H_{29}O_1N_1$ |
| 419.233162 | $C_{26}H_{30}O_3N_2$ |
| 420.280596 | $C_{17}H_{35}O_2N_9$ |
| 421.232626 | $C_{21}H_{30}O_2N_6$ |
| 421.328890 | $C_{22}H_{40}O_2N_6$ |
| 422.287303 | $C_{22}H_{41}O_5N_1$ |
| 422.326603 | $C_{25}H_{43}O_4N_1$ |
| 423.219768 | $C_{15}H_{30}O_8N_6$ |
| 425.245387 | $C_{13}H_{30}O_3N_{12}$ |
| 425.359925 | $C_{22}H_{44}O_2N_6$ |
| 426.217995 | $C_{27}H_{27}O_2N_3$ |
| 426.218436 | $C_{14}H_{29}O_5N_9$ |
| 426.261356 | $C_{24}H_{37}O_4N_1$ |
| 426.285398 | $C_{23}H_{39}O_6N_1$ |
| 427.339424 | $C_{21}H_{42}O_3N_6$ |
| 428.128151 | $C_{29}H_{17}O_3N_1$ |

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| 428.230441 | $C_{25}H_{31}O_2N_3$ |
| 428.240563 | $C_{23}H_{35}O_5N_1$ |
| 428.248957 | $C_{18}H_{37}O_{10}N_1$ |
| 428.373617 | $C_{25}H_{49}O_4N_1$ |
| 429.198335 | $C_{18}H_{28}O_8N_4$ |
| 429.318679 | $C_{20}H_{40}O_4N_6$ |
| 430.243640 | $C_{21}H_{35}O_3N_1$ |
| 430.256374 | $C_{23}H_{37}O_5N_1$ |
| 430.279990 | $C_{22}H_{39}O_7N_1$ |
| 430.322558 | $C_{16}H_{41}O_3N_9$ |
| 431.169156 | $C_{22}H_{24}O_4N_4$ |
| 434.268819 | $C_{28}H_{35}O_3N_1$ |
| 435.235470 | $C_{20}H_{30}O_5N_6$ |
| 435.300871 | $C_{28}H_{38}O_2N_2$ |
| 435.344566 | $C_{23}H_{42}O_2N_6$ |
| 436.217728 | $C_{19}H_{33}O_{10}N_1$ |
| 436.238845 | $C_{16}H_{31}O_4N_9$ |
| 436.303089 | $C_{21}H_{37}O_3N_7$ |
| 436.342378 | $C_{26}H_{45}O_4N_1$ |
| 437.126559 | $C_{13}H_{20}O_{11}N_6$ |
| 437.186394 | $C_{28}H_{24}O_3N_2$ |
| 437.193533 | $C_{22}H_{24}O_4N_6$ |
| 437.235828 | $C_{16}H_{32}O_8N_6$ |
| 437.250911 | $C_{20}H_{32}O_5N_6$ |
| 438.196912 | $C_{18}H_{31}O_{11}N_1$ |
| 438.239161 | $C_{25}H_{31}O_4N_3$ |
| 440.149419 | $C_{27}H_{21}O_5N_1$ |
| 440.150021 | $C_{14}H_{23}O_3N_7$ |
| 444.404933 | $C_{26}H_{53}O_4N_1$ |
| 445.131569 | $C_{15}H_{20}O_{10}N_6$ |
| 446.119763 | $C_{20}H_{19}O_9N_3$ |
| 447.122436 | $C_{15}H_{24}O_{12}N_2$ |
| 447.227249 | $C_{11}H_{30}O_9N_{10}$ |
| 452.233914 | $C_{16}H_{31}O_5N_9$ |
| 453.165808 | $C_{24}H_{24}O_7N_2$ |
| 453.325231 | $C_{16}H_{40}O_5N_{10}$ |
| 454.329098 | $C_{27}H_{45}O_3N_1$ |
| 455.335274 | $C_{25}H_{44}O_2N_4$ |
| 463.131208 | $C_{16}H_{16}O_4N_{12}$ |
| 463.267281 | $C_{23}H_{30}O_1N_{10}$ |
| 463.277372 | $C_{21}H_{34}O_4N_8$ |
| 463.375874 | $C_{25}H_{46}O_2N_6$ |
| 464.306972 | $C_{19}H_{39}O_3N_9$ |
| 465.377504 | $C_{24}H_{50}O_3N_4$ |
| 468.101752 | $C_{34}H_{13}O_2N_1$ |
| 469.081884 | $C_{29}H_{12}O_5N_2$ |
| 469.293445 | $C_{28}H_{38}O_1N_4$ |
| 475.236992 | $C_{16}H_{30}O_7N_{10}$ |

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| 476.270567 | C ₁₉ H ₃₅ O ₄ N ₉ |
| 476.307179 | C ₂₀ H ₃₉ O ₃ N ₉ |
| 479.226233 | C ₂₄ H ₃₂ O ₅ N ₄ |
| 481.154657 | C ₃₂ H ₂₀ O ₃ N ₂ |
| 481.211105 | C ₁₄ H ₂₈ O ₉ N ₁₀ |
| 481.262977 | C ₂₁ H ₃₈ O ₇ N ₄ |
| 482.265675 | C ₁₄ H ₃₇ O ₈ N ₉ |
| 485.113018 | C ₃₀ H ₁₆ O ₅ N ₂ |
| 485.251800 | C ₂₅ H ₂₈ O ₁ N ₁₀ |
| 485.292176 | C ₁₇ H ₃₈ O ₅ N ₁₀ |
| 486.112607 | C ₃₄ H ₁₅ O ₃ N ₁ |
| 487.304030 | C ₂₈ H ₄₀ O ₂ N ₄ |
| 487.361307 | C ₂₄ H ₄₂ O ₁ N ₁₀ |
| 489.283347 | C ₂₇ H ₃₈ O ₃ N ₄ |
| 489.304571 | C ₂₄ H ₄₂ O ₅ N ₄ |
| 493.241532 | C ₂₃ H ₂₈ O ₃ N ₁₀ |
| 493.314536 | C ₂₇ H ₄₂ O ₃ N ₄ |
| 493.350916 | C ₂₈ H ₄₆ O ₂ N ₄ |

| CHONS+ | <i>m/z</i> ⁺ | Elemental Formula |
|--------|-------------------------|--|
| | 130.032114 | C ₅ H ₇ O ₁ N ₁ S ₁ |
| | 149.998304 | C ₅ H ₅ O ₁ N ₁ S ₁ |
| | 152.016475 | C ₇ H ₅ O ₁ N ₁ S ₁ |
| | 158.027017 | C ₆ H ₇ O ₂ N ₁ S ₁ |
| | 159.981092 | C ₃ H ₁ O ₃ N ₃ S ₁ |
| | 163.977666 | C ₅ H ₃ O ₂ N ₁ S ₁ |
| | 163.994753 | C ₃ H ₅ O ₁ N ₃ S ₂ |
| | 168.026059 | C ₃ H ₉ O ₁ N ₃ S ₂ |
| | 175.089964 | C ₇ H ₁₄ O ₁ N ₂ S ₁ |
| | 175.994769 | C ₄ H ₅ O ₁ N ₃ S ₂ |
| | 176.973021 | C ₅ H ₂ O ₂ N ₂ S ₁ |
| | 178.010391 | C ₄ H ₇ O ₁ N ₃ S ₂ |
| | 178.035487 | C ₆ H ₁₁ O ₁ N ₁ S ₂ |
| | 178.089627 | C ₇ H ₁₅ O ₂ N ₁ S ₁ |
| | 179.978202 | C ₄ H ₅ O ₃ N ₁ S ₂ |
| | 192.022714 | C ₈ H ₅ O ₁ N ₃ S ₁ |
| | 202.050880 | C ₆ H ₁₃ O ₃ N ₁ S ₁ |
| | 205.957764 | C ₅ H ₃ O ₄ N ₁ S ₂ |
| | 206.038354 | C ₉ H ₇ O ₁ N ₃ S ₁ |
| | 210.984335 | C ₄ H ₆ O ₄ N ₂ S ₂ |
| | 214.089613 | C ₁₀ H ₁₅ O ₂ N ₁ S ₁ |
| | 214.968996 | C ₅ H ₂ O ₂ N ₄ S ₂ |
| | 214.988696 | C ₈ H ₄ O ₂ N ₂ S ₁ |
| | 215.989514 | C ₆ H ₅ O ₂ N ₃ S ₂ |
| | 219.986048 | C ₈ H ₇ O ₁ N ₁ S ₂ |
| | 222.019665 | C ₈ H ₉ O ₃ N ₁ S ₁ |
| | 228.068838 | C ₁₀ H ₁₃ O ₃ N ₁ S ₁ |
| CHONP+ | <i>m/z</i> ⁺ | Elemental Formula |

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| 232.963815 | C ₇ H ₄ O ₂ N ₂ P ₂ |
| 280.948704 | C ₇ H ₄ O ₅ N ₂ P ₂ |
| 293.969038 | C ₉ H ₇ O ₅ N ₁ P ₂ |
| 294.964504 | C ₈ H ₆ O ₅ N ₂ P ₂ |
| 300.075143 | C ₈ H ₁₇ O ₂ N ₅ P ₂ |
| 300.161519 | C ₁₃ H ₂₉ O ₁ N ₁ P ₂ |
| 314.954389 | C ₇ H ₆ O ₇ N ₂ P ₂ |
| 338.990039 | C ₈ H ₄ O ₄ N ₈ P ₂ |
| 348.990151 | C ₁₅ H ₈ O ₃ N ₂ P ₂ |
| 349.156842 | C ₁₆ H ₂₈ O ₁ N ₂ P ₂ |
| 390.196084 | C ₁₈ H ₃₃ O ₄ N ₁ P ₂ |
| 429.240726 | C ₁₇ H ₃₄ O ₁ N ₈ P ₂ |
| 487.109918 | C ₁₃ H ₂₄ O ₁₀ N ₆ P ₂ |

| CHN+ | <i>m/z</i> ⁺ | Elemental Formula |
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| | 70.065113 | C ₄ H ₇ N ₁ |
| | 72.080752 | C ₄ H ₉ N ₁ |
| | 86.096396 | C ₅ H ₁₁ N ₁ |
| | 94.065118 | C ₆ H ₇ N ₁ |
| | 125.107335 | C ₇ H ₁₂ N ₂ |
| | 131.129149 | C ₅ H ₁₄ N ₄ |
| | 136.112082 | C ₉ H ₁₃ N ₁ |
| | 139.122960 | C ₈ H ₁₄ N ₂ |
| | 140.143380 | C ₉ H ₁₇ N ₁ |
| | 142.159026 | C ₉ H ₁₉ N ₁ |
| | 150.077420 | C ₆ H ₇ N ₅ |
| | 150.127740 | C ₁₀ H ₁₅ N ₁ |
| | 155.154287 | C ₉ H ₁₈ N ₂ |
| | 158.096433 | C ₁₁ H ₁₁ N ₁ |
| | 159.160431 | C ₇ H ₁₈ N ₄ |
| | 166.159041 | C ₁₁ H ₁₉ N ₁ |
| | 170.096425 | C ₁₂ H ₁₁ N ₁ |
| | 170.165174 | C ₉ H ₁₉ N ₃ |
| | 174.127731 | C ₁₂ H ₁₅ N ₁ |
| | 182.190333 | C ₁₂ H ₂₃ N ₁ |
| | 184.180832 | C ₁₀ H ₂₁ N ₃ |
| | 185.057204 | C ₈ H ₄ N ₆ |
| | 196.205983 | C ₁₃ H ₂₅ N ₁ |
| | 199.072854 | C ₉ H ₆ N ₆ |
| | 201.113316 | C ₁₁ H ₁₂ N ₄ |
| | 210.127715 | C ₁₅ H ₁₅ N ₁ |
| | 212.143360 | C ₁₅ H ₁₇ N ₁ |
| | 224.237249 | C ₁₅ H ₂₉ N ₁ |
| | 226.159009 | C ₁₆ H ₁₉ N ₁ |
| | 227.104110 | C ₁₁ H ₁₀ N ₆ |
| | 246.127815 | C ₁₈ H ₁₅ N ₁ |
| | 252.174668 | C ₁₈ H ₂₁ N ₁ |
| | 282.221642 | C ₂₀ H ₂₇ N ₁ |

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| 307.260742 | C ₁₆ H ₃₀ N ₆ |
| 309.156959 | C ₁₅ H ₁₆ N ₈ |
| 311.223052 | C ₁₉ H ₂₆ N ₄ |
| 315.160604 | C ₂₀ H ₁₈ N ₄ |
| 337.307750 | C ₁₈ H ₃₆ N ₆ |
| 356.255419 | C ₁₉ H ₂₉ N ₇ |
| 360.362542 | C ₂₅ H ₄₅ N ₁ |
| 363.323423 | C ₂₀ H ₃₈ N ₆ |
| 377.176326 | C ₂₅ H ₂₀ N ₄ |
| 391.354697 | C ₂₂ H ₄₂ N ₆ |
| 393.370295 | C ₂₂ H ₄₄ N ₆ |
| 394.346902 | C ₂₈ H ₄₃ N ₁ |
| 408.311915 | C ₂₅ H ₃₇ N ₅ |
| 420.280111 | C ₁₅ H ₂₉ N ₁₅ |
| 450.359195 | C ₂₈ H ₄₃ N ₅ |
| 457.350696 | C ₂₃ H ₄₀ N ₁₀ |
| 464.374317 | C ₂₉ H ₄₅ N ₅ |

| CHONSP+ | <i>m/z</i> ⁺ | Elemental Formula |
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| | 269.953851 | C ₉ H ₅ O ₃ N ₁ S ₁ P ₂ |
| | 272.947167 | C ₈ H ₆ O ₁ N ₂ S ₂ P ₂ |
| | 288.947425 | C ₈ H ₄ O ₁ N ₄ S ₁ P ₂ |
| | 305.915066 | C ₉ H ₃ O ₄ N ₁ S ₁ P ₂ |
| | 307.917789 | C ₇ H ₃ O ₇ N ₁ S ₁ P ₂ |
| | 312.974892 | C ₁₄ H ₆ O ₁ N ₂ S ₁ P ₂ |
| | 315.916524 | C ₈ H ₃ O ₃ N ₃ S ₂ P ₂ |
| | 325.887022 | C ₈ H ₃ O ₄ N ₁ S ₂ P ₂ |
| | 327.902813 | C ₈ H ₅ O ₄ N ₁ S ₂ P ₂ |
| | 327.939420 | C ₉ H ₉ O ₃ N ₁ S ₂ P ₂ |
| | 328.897967 | C ₇ H ₄ O ₄ N ₂ S ₂ P ₂ |
| | 335.912794 | C ₈ H ₃ O ₈ N ₁ S ₁ P ₂ |
| | 336.952966 | C ₁₁ H ₆ O ₁ N ₄ S ₂ P ₂ |
| | 340.942395 | C ₁₁ H ₄ O ₂ N ₄ S ₁ P ₂ |
| | 348.914242 | C ₉ H ₄ O ₂ N ₄ S ₂ P ₂ |
| | 352.913472 | C ₁₃ H ₄ O ₁ N ₂ S ₂ P ₂ |
| | 356.903926 | C ₇ H ₄ O ₄ N ₄ S ₂ P ₂ |
| | 356.919569 | C ₁₁ H ₄ O ₁ N ₄ S ₂ P ₂ |
| | 366.912182 | C ₇ H ₄ O ₆ N ₄ S ₂ P ₂ |
| | 366.924800 | C ₉ H ₆ O ₃ N ₄ S ₂ P ₂ |
| | 368.919465 | C ₁₂ H ₄ O ₁ N ₄ S ₂ P ₂ |
| | 369.887850 | C ₈ H ₃ O ₅ N ₃ S ₂ P ₂ |
| | 383.904109 | C ₉ H ₅ O ₅ N ₃ S ₂ P ₂ |
| | 398.890604 | C ₈ H ₄ O ₉ N ₂ S ₂ P ₂ |
| | 398.902101 | C ₇ H ₄ O ₈ N ₄ S ₂ P ₂ |
| | 410.916809 | C ₁₂ H ₄ O ₅ N ₄ S ₂ P ₂ |
| | 419.892438 | C ₁₃ H ₅ O ₆ N ₁ S ₂ P ₂ |