Sphingolipidome quantification by liquid chromatography-high resolution mass spectrometry:

whole blood vs. plasma

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Table S1. Ceramide/Sphingoid Internal Standard Mixture I.

| ISTD               | Formula          | m/z Positive | Adduct | Stock conc | Mol weight |
|--------------------|------------------|--------------|--------|------------|------------|
| C17 Sphingosine    | C17H35NO2        | 286.274      | M+H    | 12.5 µM    | 285.27     |
| C17 Sphinganine    | C17H37NO2        | 288.2897     | M+H    | 12.5 µM    | 287.28     |
| C17 Sphingosine-1-P| C17H36NO5P       | 366.2401     | M+H    | 12.5 µM    | 365.23     |
| C17 Sphinganine-1-P| C17H38NO5P       | 368.256      | M+H    | 12.5 µM    | 367.25     |
| C12 SM             | C35H71N2O6P      | 647.5118     | M+H    | 12.5 µM    | 646.51     |
| C12 Ceramide       | C30H59NO3        | 482.4571     | M+H    | 12.5 µM    | 481.45     |
| C12 Glucosyl Ceramide | C36H69NO8   | 644.509      | M+H    | 12.5 µM    | 643.5      |
| C12 Lactosyl Ceramide | C42H79NO13   | 806.5615     | M+H    | 12.5 µM    | 805.56     |
| C12 Ceramide-1-P   | C30H60NO6P       | 562.4232     | M+H    | 12.5 µM    | 561.42     |
| C25 Ceramide       | C43H85NO3        | 664.6602     | M+H    | 12.5 µM    | 663.65     |

Table S2. Inclusion list for PRM experiments.
| Lipidion | RT   | Monoisotopic mass | IonFormula    | CalcMz | Scan start | Scan end |
|----------|------|-------------------|---------------|--------|------------|----------|
| Cer(d18:0_16:0) | 13.1 | 539.5277          | C34H69O3N1    | 540.535 | 12.6       | 13.6     |
| Cer(d18:0_18:0) | 14   | 567.559           | C36H73O3N1    | 568.5663 | 13.5       | 14.5     |
| Cer(d18:0_20:0) | 14.9 | 595.5903          | C38H77O3N1    | 596.5976 | 14.4       | 15.4     |
| Cer(d18:0_22:0) | 15.7 | 623.6216          | C40H81O3N1    | 624.6289 | 15.2       | 16.2     |
| Cer(d18:0_23:0) | 16.1 | 637.6373          | C41H83O3N1    | 638.6446 | 15.6       | 16.6     |
| Cer(d18:0_24:0) | 16.5 | 651.6529          | C42H85O3N1    | 652.6602 | 16         | 17       |
| Cer(d18:0_24:1) | 15.5 | 649.6373          | C42H83O3N1    | 650.6446 | 15         | 16       |
| Cer(d18:0_24:2) | 14.8 | 647.6216          | C42H81O3N1    | 648.6289 | 14.3       | 15.3     |
| Cer(d18:0_25:0) | 16.9 | 665.6686          | C43H87O3N1    | 666.6759 | 16.4       | 17.4     |
| Cer(d18:0_26:0) | 17.2 | 679.6842          | C44H89O3N1    | 680.6915 | 16.7       | 17.7     |
| Cer(d18:0_26:2) | 15.6 | 675.6529          | C44H85O3N1    | 676.6602 | 15.1       | 16.1     |
| Cer(d18:1_16:0) | 12.7 | 537.5121          | C34H67O3N1    | 538.5194 | 12.2       | 13.2     |
| Cer(d18:1_18:0) | 13.7 | 565.5434          | C36H71O3N1    | 566.5507 | 13.2       | 14.2     |
| Cer(d18:1_20:0) | 14.5 | 593.5747          | C38H75O3N1    | 594.582  | 14         | 15       |
| Cer(d18:1_22:0) | 15.4 | 621.606           | C40H79O3N1    | 622.6133 | 14.9       | 15.9     |
| Cer(d18:1_22:1) | 14.3 | 619.5903          | C40H77O3N1    | 620.5976 | 13.8       | 14.8     |
| Cer(d18:1_23:0) | 15.8 | 635.6216          | C41H81O3N1    | 636.6289 | 15.3       | 16.3     |
| Cer(d18:1_23:1) | 14.7 | 633.606           | C41H79O3N1    | 634.6133 | 14.2       | 15.2     |
| Cer(d18:1_24:0) | 16.2 | 649.6373          | C42H83O3N1    | 650.6446 | 15.7       | 16.7     |
| Cer(d18:1_24:0+O) | 14.8 | 665.6322          | C42H83O4N1    | 666.6395 | 14.3       | 15.3     |
| Cer(d18:1_24:1) | 15.2 | 647.6216          | C42H81O3N1    | 648.6289 | 14.7       | 15.7     |
| Cer(d18:1_24:2)/Cer(d18:2_24:1) | 14.4 | 645.606          | C42H79O3N1    | 646.6133 | 13.9       | 14.9     |
| Cer(d18:1_25:1) | 15.5 | 661.6373          | C43H83O3N1    | 662.6646 | 15         | 16       |
| Cer(d18:1_26:0) | 16.9 | 677.6686          | C44H87O3N1    | 678.6759 | 16.4       | 17.4     |
| Cer(d18:1_26:1) | 16   | 675.6529          | C44H85O3N1    | 676.6602 | 15.5       | 16.5     |
| Cer(d18:1_26:2)/Cer(d18:2_26:1) | 15.2 | 673.6373          | C44H84O3N1    | 674.6446 | 14.7       | 15.7     |
| Cer(d18:2_20:0) | 13.7 | 591.559           | C38H73O3N1    | 592.5663 | 13.2       | 14.2     |
| Compound                  | Mass   | Retention Time | Formula       | Exact Mass   | Purity | Mass Accuracy | MS/MS Accuracy |
|--------------------------|--------|----------------|---------------|--------------|--------|---------------|----------------|
| Cer(d18:2_22:0)          | 14.6   | 619.5903       | C40H77O3N1    | 620.5976     | 14.1   | 15.1          |                |
| Cer(d18:2_23:0)          | 15     | 633.606        | C41H79O3N1    | 634.6133     | 14.5   | 15.5          |                |
| Cer(d18:2_24:0)          | 15.4   | 647.6216       | C42H81O3N1    | 648.6289     | 14.9   | 15.9          |                |
| Cer(d18:2_25:0)          | 15.8   | 661.6373       | C43H83O3N1    | 662.6446     | 15.3   | 16.3          |                |
| Cer(d18:2_26:0)          | 16.1   | 675.6529       | C44H85O3N1    | 676.6602     | 15.6   | 16.6          |                |
| Cer(d19:1_22:0)          | 15.6   | 635.6216       | C41H81O3N1    | 636.6289     | 15.1   | 16.1          |                |
| Cer(d19:1_23:0)          | 15.9   | 649.6373       | C42H83O3N1    | 650.6446     | 15.4   | 16.4          |                |
| Cer(d19:1_24:0)          | 16.4   | 663.6529       | C43H85O3N1    | 664.6611     | 15.9   | 16.9          |                |
| Cer(d19:1_24:1)          | 15.4   | 661.6373       | C43H83O3N1    | 662.6446     | 14.9   | 15.9          |                |
| Cer(d19:1_25:0)          | 16.7   | 677.6686       | C44H87O3N1    | 678.6759     | 16.2   | 17.2          |                |
| Cer(d20:1_24:0)          | 16.9   | 677.6686       | C44H87O3N1    | 678.6761     | 16.4   | 17.4          |                |
| Cer(m18:0_22:0)          | 16.1   | 607.6267       | C40H81O2N1    | 608.6341     | 15.6   | 16.6          |                |
| Cer(m18:0_24:0)          | 16.9   | 635.658        | C42H85O2N1    | 636.6654     | 16.4   | 17.4          |                |
| Cer(m18:0_24:1)          | 15.9   | 633.6424       | C42H83O2N1    | 634.6497     | 15.4   | 16.4          |                |
| Cer(m18:0_26:0)          | 17.6   | 663.6893       | C44H89O2N1    | 664.6968     | 17.1   | 18.1          |                |
| Cer(m18:1_22:0)          | 15.3   | 605.6111       | C40H79O2N1    | 606.6185     | 14.8   | 15.8          |                |
| Cer(m18:1_24:0)          | 16.1   | 633.6424       | C42H83O2N1    | 634.6498     | 15.6   | 16.6          |                |
| Cer(m18:1_24:0+O)        | 15.5   | 649.6373       | C42H83O3N1    | 650.6446     | 15     | 16            |                |
| Cer(m18:1_26:0)          | 16.7   | 661.6737       | C44H87O2N1    | 662.6812     | 16.2   | 17.2          |                |
| Cer(m19:0_24:0)          | 17     | 649.6737       | C43H87O2N1    | 650.6812     | 16.5   | 17.5          |                |
| Cer(t18:0_16:0)          | 12.3   | 555.5227       | C34H69O4N1    | 556.5302     | 11.8   | 12.8          |                |
| Cer(t18:0_22:0)          | 15     | 639.6166       | C40H81O4N1    | 640.6238     | 14.5   | 15.5          |                |
| Cer(t18:0_23:0)          | 15.4   | 653.6322       | C41H83O4N1    | 654.6395     | 14.9   | 15.9          |                |
| Cer(t18:0_24:0)          | 15.8   | 667.6479       | C42H85O4N1    | 668.6551     | 15.3   | 16.3          |                |
| Cer(t18:0_26:0)          | 16.5   | 695.6792       | C44H89O4N1    | 696.6864     | 16     | 17            |                |
| CerP(d18:1_16:0)         | 11.1   | 617.4784       | C34H68O6N1P1  | 618.4857     | 10.6   | 11.6          |                |
| CerP(d18:1_22:0)         | 13.7   | 701.5723       | C40H80O6N1P1  | 702.5796     | 13.2   | 14.2          |                |
| CerP(d18:1_24:0)         | 14.5   | 729.6036       | C42H84O1O6P1  | 730.6109     | 14     | 15            |                |
| CerP(d18:1_24:1)         | 13.5   | 727.5879       | C42H82O1O6P1  | 728.5952     | 13     | 14            |                |
| Compound                | R  | m/z       | Molecular Formula | Observed m/z | Prec. Error (ppm) | Fragment m/z | Prec. Error (ppm) |
|------------------------|----|-----------|-------------------|--------------|-------------------|--------------|-------------------|
| GD3(d34:1)             | 10.2 | 1433.809  | C68H121O29N3      | 1442.801     | 9.7               | 10.7         |
| GM1(d40:1)             | 12.8 | 1601.939  | C77H139O31N3      | 1600.932     | 12.3              | 13.3         |
| GM1(d42:1)             | 13.5 | 1629.971  | C79H143O31N3      | 1628.961     | 13                | 14           |
| GM1(d42:2)             | 12.7 | 1627.955  | C79H141O31N3      | 1626.947     | 12.2              | 13.2         |
| GM3(d32:1)             | 9.4  | 1124.682  | C55H100O21N2      | 1153.721     | 12.9              | 13.9         |
| GM3(d34:1)             | 10.4 | 1152.713  | C57H104O21N3      | 1153.721     | 9.9               | 10.9         |
| GM3(d34:1+O)           | 10.2 | 1168.708  | C57H104O22N2      | 1169.716     | 9.7               | 10.7         |
| GM3(d34:2)             | 9.5  | 1150.698  | C57H102O21N2      | 1151.705     | 9                 | 10           |
| GM3(d36:1)             | 11.4 | 1180.745  | C59H108O21N2      | 1181.753     | 10.9              | 11.9         |
| GM3(d36:2)             | 10.6 | 1178.729  | C61H106O21N2      | 1179.737     | 10.1              | 11.1         |
| GM3(d40:1)             | 12.9 | 1236.807  | C63H116O21N2      | 1237.815     | 12.4              | 13.4         |
| GM3(d40:2)             | 12.3 | 1234.791  | C63H114O21N2      | 1235.799     | 11.8              | 12.8         |
| GM3(d42:1)             | 13.6 | 1264.838  | C65H120O21N2      | 1265.848     | 13.1              | 14.1         |
| GM3(d42:2)             | 12.8 | 1262.823  | C65H118O21N2      | 1263.831     | 12.3              | 13.3         |
| Hex1Cer(d18:1_16:0)    | 12  | 699.5649  | C40H77O8N1        | 700.5722     | 11.5              | 12.5         |
| Hex1Cer(d18:1_16:0+O)  | 10.4 | 715.5598  | C40H77O9N1        | 716.5671     | 9.9               | 10.9         |
| Hex1Cer(d18:1_18:0)    | 12.9 | 727.5962  | C42H81O8N1        | 728.6035     | 12.4              | 13.4         |
| Hex1Cer(d18:1_20:0)    | 13.7 | 755.6275  | C44H85O8N1        | 756.6346     | 13.2              | 14.2         |
| Hex1Cer(d18:1_22:0)    | 14.6 | 783.6588  | C46H89O8N1        | 784.6661     | 14.1              | 15.1         |
| Hex1Cer(d18:1_24:0)    | 15.4 | 811.6901  | C48H93O8N1        | 812.6974     | 14.9              | 15.9         |
| Hex1Cer(d18:1_24:1)    | 14.4 | 809.6745  | C48H91O8N1        | 810.6817     | 13.9              | 14.9         |
| Hex1Cer(d18:1_24:2)/Hex1Cer(d18:2/24:1) | 13.7 | 807.6588  | C48H89O8N1        | 808.6661     | 13.2              | 14.2         |
| Hex1Cer(d18:2_24:0)    | 14.6 | 809.6745  | C48H91O8N1        | 810.6817     | 14.1              | 15.1         |
| Hex2Cer(d18:0_16:0)    | 12  | 863.6334  | C46H89O13N1       | 864.6406     | 11.5              | 12.5         |
| Hex2Cer(d18:1_16:0)    | 11.6 | 861.6177  | C46H87O13N1       | 862.625      | 11.1              | 12.1         |
| Hex2Cer(d18:1_18:0)    | 12.6 | 889.649   | C48H91O13N1       | 890.6563     | 12.1              | 13.1         |
| Hex2Cer(d18:1_20:0)    | 13.4 | 917.6803  | C50H95O13N1       | 918.6876     | 12.9              | 13.9         |
| Hex2Cer(d18:1_22:0)    | 14.2 | 945.7116  | C52H99O13N1       | 946.7189     | 13.7              | 14.7         |
| Hex2Cer(d18:1_24:0)    | 15  | 973.7429  | C54H103O13N1      | 974.7502     | 14.5              | 15.5         |
| Compound                        | m/z  | Exact Mass   | Formula       | Retention Time | RSD  | RSD  |
|--------------------------------|------|--------------|---------------|----------------|------|------|
| Hex2Cer(d18:1_24:1)           | 14.1 | 971.7273     | C54H101O13N1  | 972.7346       | 13.6 | 14.6 |
| Hex2Cer(d18:1_26:0)           | 15.8 | 1001.774     | C56H107O13N1  | 1002.783       | 15.3 | 16.3 |
| Hex2Cer(d18:1_26:1)           | 14.8 | 999.7586     | C56H105O13N1  | 1000.766       | 14.3 | 15.3 |
| Hex2Cer(d18:2_16:0)           | 10.7 | 859.6021     | C46H85O13N1   | 860.6094       | 10.2 | 11.2 |
| Hex3Cer(d18:1_16:0)           | 11.4 | 1023.671     | C52H97O18N1   | 1024.679       | 10.9 | 11.9 |
| Hex3Cer(d18:1_18:0)           | 12.3 | 1051.702     | C54H101O18N1  | 1052.71        | 11.8 | 12.8 |
| Hex3Cer(d18:1_22:0)           | 14   | 1107.765     | C58H109O18N1  | 1108.773       | 13.5 | 14.5 |
| Hex3Cer(d18:1_24:0)           | 14.8 | 1135.796     | C60H113O18N1  | 1136.803       | 14.3 | 15.3 |
| Hex3Cer(d18:1_24:1)           | 13.8 | 1133.78      | C60H111O18N1  | 1134.789       | 13.3 | 14.3 |
| Hex3Cer(d18:1_26:0)           | 15.5 | 1163.827     | C62H117O18N1  | 1164.835       | 15   | 16   |
| SPH(d18:1)                     | 3.4  | 299.2824     | C18H37O2N1    | 300.2895       | 2.9  | 3.9  |
| SPH(d18:0)                     | 3.9  | 301.2981     | C18H39O2N1    | 302.3054       | 3.4  | 4.4  |
| SPHP(d18:0)                    | 3.2  | 381.2644     | C18H40O5N1P1  | 382.2717       | 2.7  | 3.7  |
| SPHP(d18:1)                    | 3.1  | 379.2488     | C18H38O5N1P1  | 380.256        | 2.6  | 3.6  |
| SPHP(d18:2)                    | 1.5  | 377.2331     | C18H36O5N1P1  | 378.2404       | 1    | 2    |
| SM(d30:0)                      | 9.9  | 648.5206     | C35H73O6N2P1  | 649.5291       | 9.4  | 10.4 |
| SM(d18:1_12:0)                 | 9.4  | 646.505      | C35H71O6N2P1  | 647.5124       | 8.9  | 9.9  |
| SM(d30:2)                      | 8.2  | 644.4893     | C35H69O6N2P1  | 645.4967       | 7.7  | 8.7  |
| SM(d31:1)                      | 10   | 660.5206     | C36H73O6N2P1  | 661.5283       | 9.5  | 10.5 |
| SM(d32:0)                      | 11.1 | 676.5519     | C37H77O6N2P1  | 677.5598       | 10.6 | 11.6 |
| SM(d32:1)                      | 10.6 | 674.5363     | C37H75O6N2P1  | 675.544        | 10.1 | 11.1 |
| SM(d32:2)                      | 9.6  | 672.5206     | C37H73O6N2P1  | 673.5279       | 9.1  | 10.1 |
| SM(d33:2)                      | 10.3 | 688.5519     | C38H77O6N2P1  | 689.5596       | 9.8  | 10.8 |
| SM(d18:0_16:0)                 | 12.2 | 704.5832     | C39H81O6N2P1  | 705.5904       | 11.7 | 12.7 |
| SM(d18:1_16:0)                 | 11.7 | 702.5676     | C39H79O6N2P1  | 703.5751       | 11.2 | 12.2 |
| SM(d18:1_16:1)                 | 10.8 | 700.5519     | C39H77O6N2P1  | 701.5594       | 10.3 | 11.3 |
| SM(d34:4)                      | 10.6 | 696.5206     | C39H73O6N2P1  | 697.5257       | 10.1 | 11.1 |
| SM(d35:4)                      | 11.2 | 710.5363     | C40H75O6N2P1  | 711.5414       | 10.7 | 11.7 |
| SM(d36:0)                      | 13.2 | 732.6145     | C41H85O6N2P1  | 733.6198       | 12.7 | 13.7 |
| Compound               | m/z   | Retention Index | Formula          | Mass Accuracy | Rel. Error | Accuracy  |
|------------------------|-------|----------------|------------------|--------------|-----------|-----------|
| SM(d36:1)              | 12.8  | 730.5989       | C41H83O6N2P1     | 731.6066     | 12.3      | 13.3      |
| SM(d18:1_18:1)         | 11.9  | 728.5832       | C41H81O6N2P1     | 729.5905     | 11.4      | 12.4      |
| SM(d18:1_18:2)         | 11.1  | 726.5676       | C41H79O6N2P1     | 727.575      | 10.6      | 11.6      |
| SM(d36:5)              | 10.8  | 722.5363       | C41H75O6N2P1     | 723.5413     | 10.3      | 11.3      |
| SM(d37:1)              | 13.3  | 744.6145       | C42H85O6N2P1     | 745.6222     | 12.8      | 13.8      |
| SM(d37:2)              | 12.4  | 742.5989       | C42H83O6N2P1     | 743.6063     | 11.9      | 12.9      |
| SM(d38:0)              | 14.2  | 760.6458       | C43H89O6N2P1     | 761.6519     | 13.7      | 14.7      |
| SM(d18:1_20:0)         | 13.7  | 758.6302       | C43H87O6N2P1     | 759.6378     | 13.2      | 14.2      |
| SM(d18:1_20:1)         | 12.9  | 756.6145       | C43H85O6N2P1     | 757.6216     | 12.4      | 13.4      |
| SM(d38:3)              | 12    | 754.5989       | C43H83O6N2P1     | 755.606      | 11.5      | 12.5      |
| SM(d20:0_18:4)         | 12.8  | 752.5832       | C43H81O6N2P1     | 753.5884     | 12.3      | 13.3      |
| SM(d38:5)              | 11.9  | 750.5676       | C43H79O6N2P1     | 751.5726     | 11.4      | 12.4      |
| SM(d38:6)              | 11.1  | 748.5519       | C43H77O6N2P1     | 749.558      | 10.6      | 11.6      |
| SM(d39:1)              | 14.2  | 772.6458       | C44H89O6N2P1     | 773.6534     | 13.7      | 14.7      |
| SM(d18:1_21:1)         | 13.4  | 770.6302       | C44H87O6N2P1     | 771.6378     | 12.9      | 13.9      |
| SM(d39:4)              | 13.3  | 766.5989       | C44H83O6N2P1     | 767.6037     | 12.8      | 13.8      |
| SM(d40:0)              | 15.1  | 788.6771       | C45H93O6N2P1     | 789.6839     | 14.6      | 15.6      |
| SM(d40:1)              | 14.6  | 786.6615       | C45H91O6N2P1     | 787.669      | 14.1      | 15.1      |
| SM(d18:1_22:1)         | 13.8  | 784.6458       | C45H89O6N2P1     | 785.6531     | 13.3      | 14.3      |
| SM(d40:3)              | 12.8  | 782.6302       | C45H87O6N2P1     | 783.6377     | 12.3      | 13.3      |
| SM(d20:0_20:4)         | 13.7  | 780.6145       | C45H85O6N2P1     | 781.6196     | 13.2      | 14.2      |
| SM(d40:7)              | 10.7  | 774.5676       | C45H79O6N2P1     | 775.5751     | 10.2      | 11.2      |
| SM(d41:1)              | 15.2  | 800.6771       | C46H93O6N2P1     | 801.6846     | 14.7      | 15.7      |
| SM(d18:1_23:1)         | 14.3  | 798.6615       | C46H91O6N2P1     | 799.6692     | 13.8      | 14.8      |
| SM(d41:2)              | 14    | 798.6615       | C46H91O6N2P1     | 799.6689     | 13.5      | 14.5      |
| SM(d41:3)              | 13.3  | 796.6458       | C46H89O6N2P1     | 797.6531     | 12.8      | 13.8      |
| SM(d18:2_23:2)         | 14.2  | 794.6302       | C46H87O6N2P1     | 795.6367     | 13.7      | 14.7      |
| SM(d18:1_24:0)         | 15.5  | 814.6928       | C47H95O6N2P1     | 815.7003     | 15        | 16        |
| SM(d18:1_24:1)         | 14.4  | 812.6771       | C47H93O6N2P1     | 813.6842     | 13.9      | 14.9      |
| Compound          | Value | M/z   | Molecular Formula | Retention Time (min) | 13  | 14  |
|-------------------|-------|-------|-------------------|----------------------|-----|-----|
| SM(d18:1_24:2)    | 13.6  | 810.6615 | C47H91O6N2P1     | 811.6687            | 13.1| 14.1|
| SM(d18:2_24:2)    | 12.9  | 808.6458 | C47H90O6N2P1     | 809.6507            | 12.4| 13.4|
| SM(d18:1_24:4)    | 13.5  | 806.6302 | C47H87O6N2P1     | 807.6356            | 13  | 14  |
| SM(d43:1)         | 16.1  | 828.7084 | C48H97O6N2P1     | 829.7162            | 15.6| 16.6|
| SM(d43:2)         | 14.9  | 826.6928 | C48H95O6N2P1     | 827.7               | 14.4| 15.4|
| SM(d43:3)         | 14.1  | 824.6771 | C48H93O6N2P1     | 825.6842            | 13.6| 14.6|
| SM(d43:5)         | 14    | 820.6458 | C48H89O6N2P1     | 821.6507            | 13.5| 14.5|
| SM(d43:6)         | 13.3  | 818.6302 | C48H87O6N2P1     | 819.6358            | 12.8| 13.8|
| SM(d44:1)         | 16.6  | 842.7241 | C49H99O6N2P1     | 843.7318            | 16.1| 17.1|
| SM(d44:2)         | 15.4  | 840.7084 | C49H97O6N2P1     | 841.7163            | 14.9| 15.9|
| SM(d44:3)         | 14.5  | 838.6928 | C49H95O6N2P1     | 839.7               | 14  | 15  |
| SM(d44:4)         | 13.8  | 836.6771 | C49H93O6N2P1     | 837.6845            | 13.3| 14.3|
| SM(d44:7)         | 12.9  | 830.6302 | C49H87O6N2P1     | 831.6359            | 12.4| 13.4|