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Supplementary Materials

2 **Comprehensive Profiling of Platycodonis Radix in Different Growing Regions** 3 **Using Liquid Chromatography Coupled with Mass Spectrometry: from** 4 **Metabolome and Lipidome Aspects**

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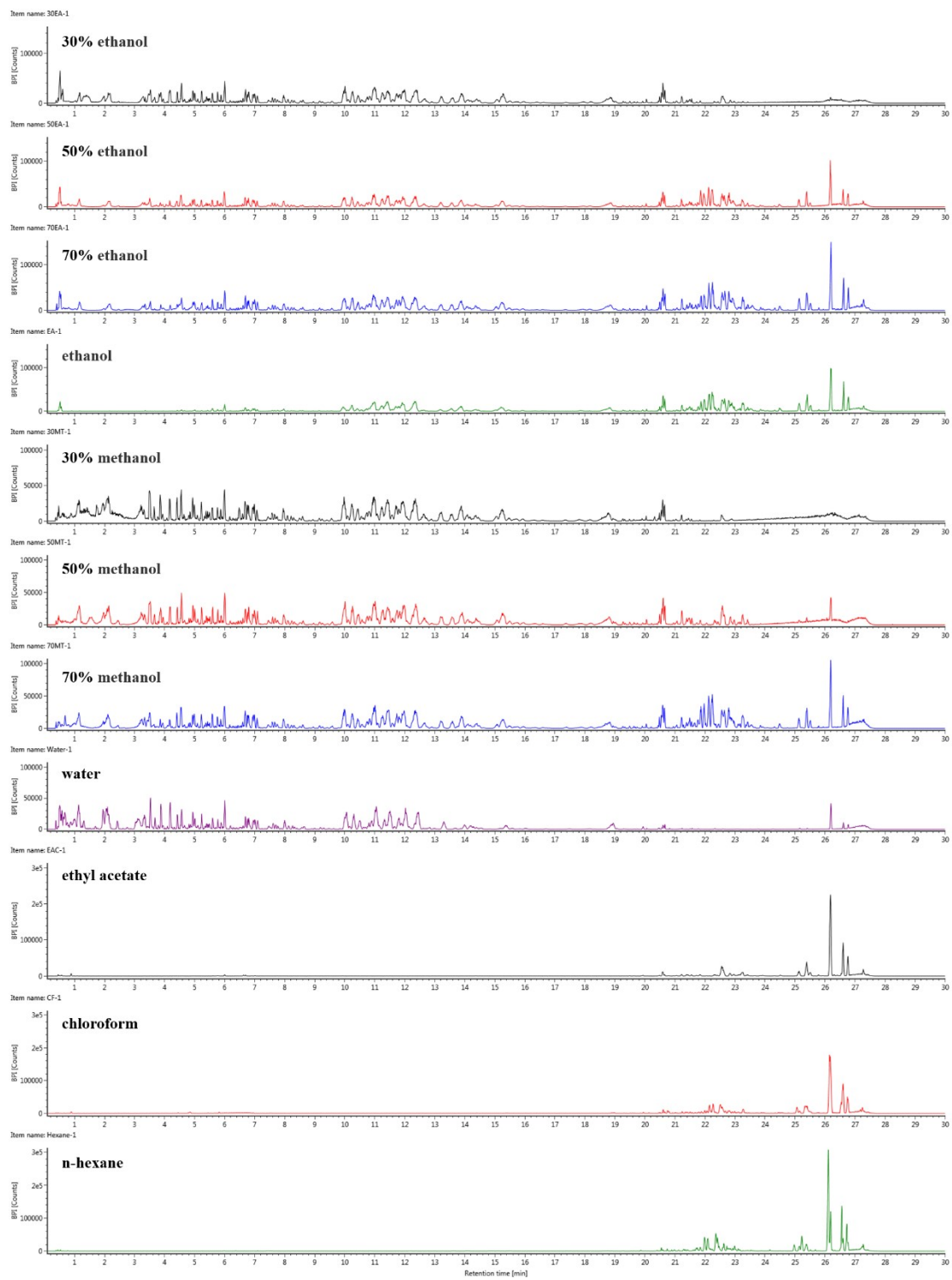
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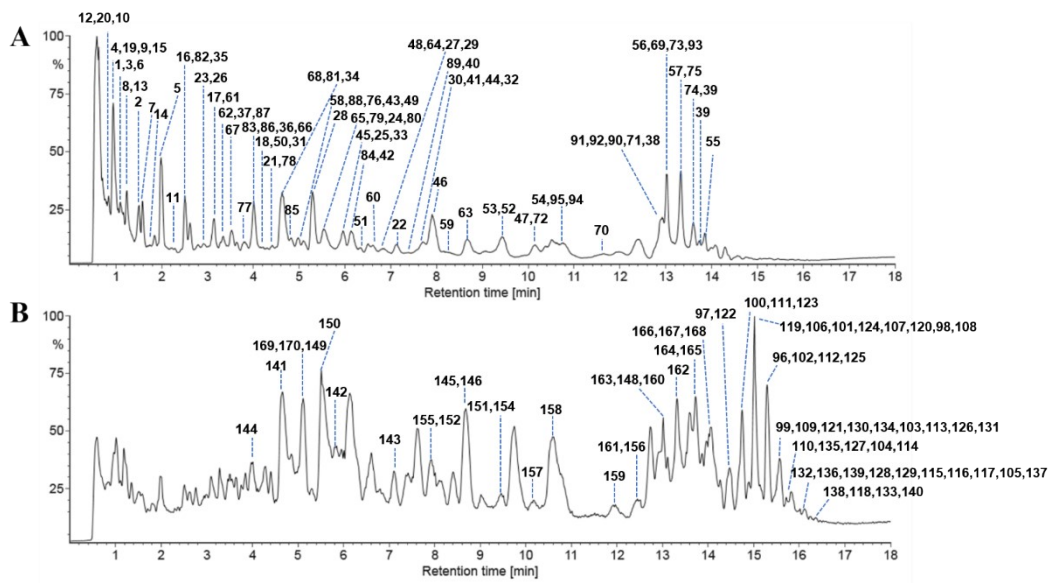
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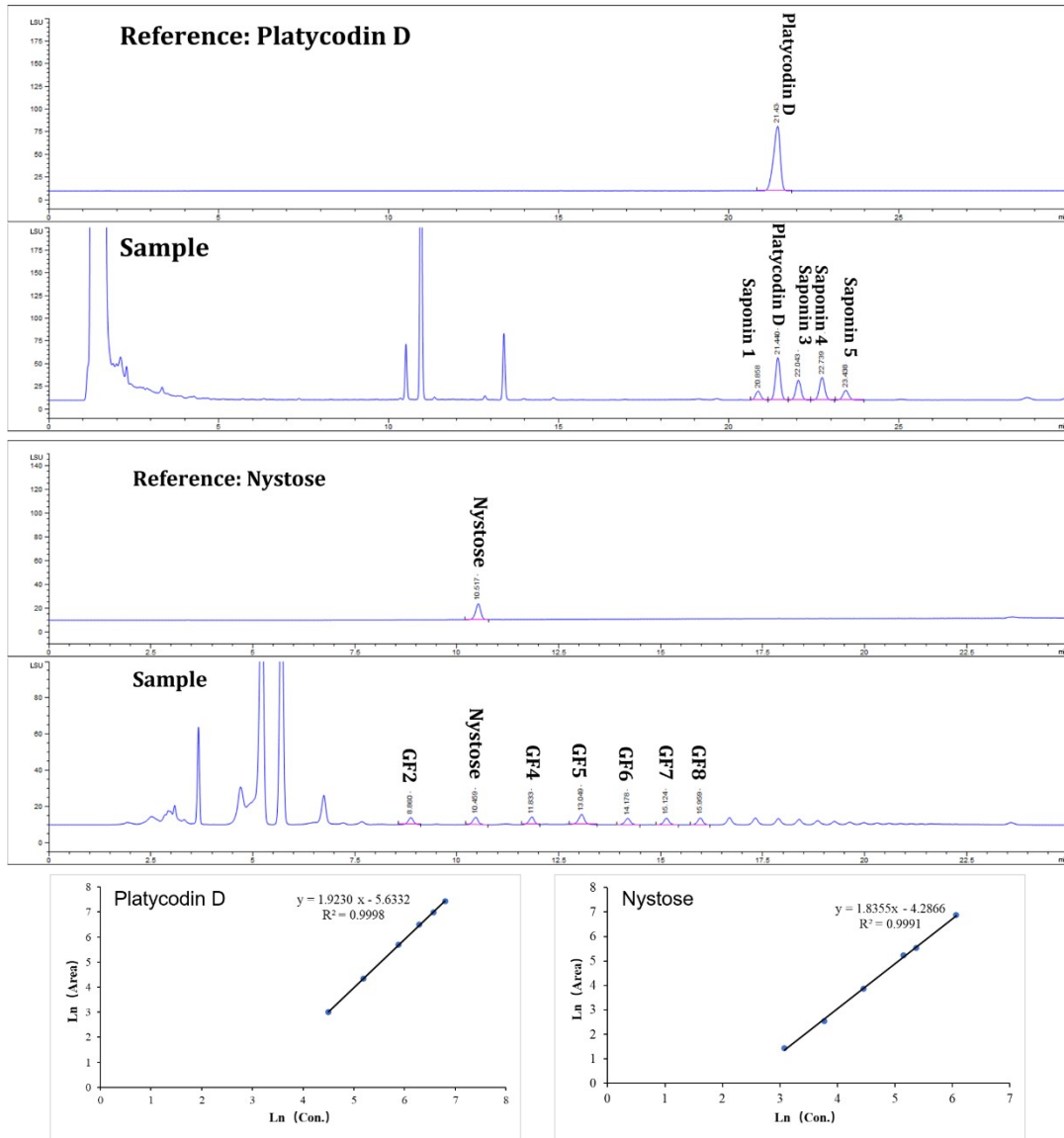
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13 **Figure S1.** Representative chromatograms of different solvent extractions for
 14 metabolome sample.



15

16 **Figure S2.** Representative chromatograms of lipid profiling via UPLC/IM-QTOF-
 17 HDMS^E analysis in negative (A) and positive (B) modes



18

19 **Figure S3.** Representative chromatograms and linear calibration curves for assays on
 20 total saponins and oligosaccharides.

Table S1 Detailed information of the samples

| NO. | Sample location | Growth year | Date for handpicking | Local weather |
|---|--------------------------------|-------------|---------------------------|--------------------|
| AH1 AH2 AH3 AH4 | Lixing, Taihe county | 2-3 years | 2020.10.23 | Sunny |
| AH5 AH6 AH7 AH8 | Lixing, Taihe county | 2-3 years | 2020.10.24 | Cloudy with breeze |
| AH9 AH10 AH11 AH12 | Shuangmaio, Taihe county | 2-3 years | 2020.10.25 | Cloudy with breeze |
| NM1 NM2 NM3 NM4 NM5 NM6 NM7 NM8 NM9 NM10 NM11 NM12 | Harqin banner, Chifeng city | 2-3 years | 2020.09.16- 2020.09.17 | Cloudy to sunny |

23 **Table 2** Lipid molecular species identified in *Platycodonis Radix*

| NO. | Lipid species | Adduct | Observed m/z | Mass error (ppm) | Formula | Retention time (min) |
|-----|------------------|-----------------------|-----------------|---------------------|------------|-------------------------|
| 1 | LPA 16:0 | [M-H] ⁻ | 409.2361 | 0.13 | C19H39O7P | 1.12 |
| 2 | LPA 18:0 | [M-H] ⁻ | 437.2673 | -0.1 | C21H43O7P | 1.56 |
| 3 | LPA 18:1 | [M-H] ⁻ | 435.2512 | -1.21 | C21H41O7P | 1.17 |
| 4 | LPA 18:2 | [M-H] ⁻ | 433.2358 | -0.64 | C21H39O7P | 0.96 |
| 5 | LPA 18:2 | [M-H] ⁻ | 433.2363 | 0.43 | C21H39O7P | 2.00 |
| 6 | LPC 16:0/0:0 | [M+HCOO] ⁻ | 540.3308 | 0.22 | C24H50NO7P | 1.19 |
| 7 | LPC 18:0/0:0 | [M+HCOO] ⁻ | 568.3622 | 0.33 | C26H54NO7P | 1.63 |
| 8 | LPC 18:1/0:0 | [M+HCOO] ⁻ | 566.3454 | -1.76 | C26H52NO7P | 1.24 |
| 9 | LPC 18:2/0:0 | [M+HCOO] ⁻ | 564.3303 | -0.64 | C26H50NO7P | 1.02 |
| 10 | LPC 18:3 | [M+HCOO] ⁻ | 562.3149 | -0.29 | C26H48NO7P | 0.87 |
| 11 | LPC 20:0/0:0 | [M+HCOO] ⁻ | 596.3928 | -0.87 | C28H58NO7P | 2.31 |
| 12 | LPE 0:0/18:2 | [M-H] ⁻ | 476.2786 | 0.41 | C23H44NO7P | 0.83 |
| 13 | LPE 16:0/0:0 | [M-H] ⁻ | 452.2785 | 0.6 | C21H44NO7P | 1.24 |
| 14 | LPE 18:0/0:0 | [M-H] ⁻ | 480.3105 | 1.98 | C23H48NO7P | 1.72 |
| 15 | LPE 18:2/0:0 | [M-H] ⁻ | 476.2785 | -0.29 | C23H44NO7P | 1.06 |
| 16 | LPE 20:0/0:0 | [M-H] ⁻ | 508.3413 | 0.93 | C25H52NO7P | 2.46 |
| 17 | LPE 22:0/0:0 | [M-H] ⁻ | 536.3721 | -0.15 | C27H56NO7P | 3.25 |
| 18 | LPE 24:0/0:0 | [M-H] ⁻ | 564.4044 | 1.66 | C29H60NO7P | 4.21 |
| 19 | LPI 16:0 | [M-H] ⁻ | 571.2881 | -1.37 | C25H49O12P | 0.98 |
| 20 | LPI 18:2 | [M-H] ⁻ | 595.2883 | -0.93 | C27H49O12P | 0.86 |
| 21 | PA 14:0/18:2 | [M-H] ⁻ | 643.4417 | 0.34 | C35H65O8P | 4.39 |
| 22 | PA 16:0/18:1 | [M-H] ⁻ | 673.4808 | -0.93 | C37H71O8P | 7.14 |
| 23 | PA 16:0/18:1(OH) | [M-H] ⁻ | 685.4449 | 0.12 | C37H67O9P | 2.95 |
| 24 | PA 16:0/18:2 | [M-H] ⁻ | 671.4661 | 0.53 | C37H69O8P | 5.59 |
| 25 | PA 16:0/18:2 | [M-H] ⁻ | 671.4653 | -0.61 | C37H69O8P | 5.94 |
| 26 | PA 16:0/18:2(OH) | [M-H] ⁻ | 687.4601 | -0.82 | C37H69O9P | 3.01 |
| 27 | PA 17:0/17:2 | [M-H] ⁻ | 671.4655 | -0.34 | C37H69O8P | 6.80 |
| 28 | PA 17:1/15:0 | [M-H] ⁻ | 645.4502 | 0.26 | C35H67O8P | 5.43 |
| 29 | PA 17:1/18:1 | [M-H] ⁻ | 685.4812 | -0.3 | C38H71O8P | 6.80 |
| 30 | PA 18:0/18:2 | [M-H] ⁻ | 699.4966 | -0.66 | C39H73O8P | 7.60 |
| 31 | PA 18:2/15:1 | [M-H] ⁻ | 655.4341 | -0.51 | C36H65O8P | 4.36 |
| 32 | PA 18:2/18:0 | [M-H] ⁻ | 699.4966 | -0.65 | C39H73O8P | 7.75 |
| 33 | PA 18:2/18:1 | [M-H] ⁻ | 697.4813 | -0.18 | C39H71O8P | 5.94 |
| 34 | PA 18:2/18:2 | [M-H] ⁻ | 695.4655 | -0.37 | C39H69O8P | 4.69 |
| 35 | PA 18:2/18:2(OH) | [M-H] ⁻ | 711.4402 | 0.38 | C39H69O9P | 2.52 |
| 36 | PA 18:2/18:3 | [M-H] ⁻ | 693.4496 | -0.47 | C39H67O8P | 4.02 |
| 37 | PA 18:3/18:3 | [M-H] ⁻ | 691.4347 | 0.34 | C39H65O8P | 3.42 |
| 38 | PA 22:0/18:2 | [M-H] ⁻ | 755.5591 | -0.65 | C43H81O8P | 12.89 |
| 39 | PA 24:0/18:2 | [M-H] ⁻ | 783.5902 | -0.9 | C45H85O8P | 13.71 |
| 40 | PC 16:0/16:0 | [M+HCOO] ⁻ | 778.5598 | -0.76 | C40H80NO8P | 7.39 |
| 41 | PC 16:0/18:1 | [M+HCOO] ⁻ | 804.5753 | -0.86 | C42H82NO8P | 7.62 |

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|----|-------------------|-----------------------|----------|-------|------------|-------|
| 42 | PC 16:0/18:2 | [M+HCOO] ⁻ | 802.5599 | -0.56 | C42H80NO8P | 6.15 |
| 43 | PC 16:0/18:3 | [M+HCOO] ⁻ | 800.5448 | 0.11 | C42H78NO8P | 5.10 |
| 44 | PC 17:0_18:2 | [M+HCOO] ⁻ | 816.5746 | -1.72 | C43H82NO8P | 7.70 |
| 45 | PC 17:1_18:2 | [M+HCOO] ⁻ | 814.5605 | 0.2 | C43H80NO8P | 5.91 |
| 46 | PC 18:0/18:2 | [M+HCOO] ⁻ | 830.5907 | -1.17 | C44H84NO8P | 8.14 |
| 47 | PC 18:0_18:1 | [M+HCOO] ⁻ | 832.6057 | -1.99 | C44H86NO8P | 10.07 |
| 48 | PC 18:0_18:3 | [M+HCOO] ⁻ | 828.5755 | -0.67 | C44H82NO8P | 6.72 |
| 49 | PC 18:2/18:2 | [M+HCOO] ⁻ | 826.5676 | -0.5 | C44H80NO8P | 5.12 |
| 50 | PC 18:2/18:3 | [M+HCOO] ⁻ | 824.5440 | -0.85 | C44H78NO8P | 4.29 |
| 51 | PC 18:2_18:1 | [M+HCOO] ⁻ | 828.5766 | -0.9 | C44H82NO8P | 6.30 |
| 52 | PC 18:2_21:1 | [M+HCOO] ⁻ | 870.6224 | -0.68 | C47H88NO8P | 9.38 |
| 53 | PC 19:0_18:2 | [M+HCOO] ⁻ | 844.6060 | -1.54 | C45H86NO8P | 9.33 |
| 54 | PC 20:0/18:2 | [M+HCOO] ⁻ | 858.6218 | -1.31 | C46H88NO8P | 10.73 |
| 55 | PC 20:0_18:1 | [M+HCOO] ⁻ | 860.6385 | -0.18 | C46H90NO8P | 13.84 |
| 56 | PC 22:0_18:2 | [M+HCOO] ⁻ | 886.6543 | 0.09 | C48H92NO8P | 12.99 |
| 57 | PC 22:0_19:2 | [M+HCOO] ⁻ | 900.6772 | 1.74 | C49H94NO8P | 13.28 |
| 58 | PE 15:1/18:2 | [M-H] ⁻ | 698.4839 | -0.87 | C38H70NO8P | 4.98 |
| 59 | PE 16:0/18:1 | [M-H] ⁻ | 716.5227 | -1.24 | C39H76NO8P | 8.25 |
| 60 | PE 16:0/18:2 | [M-H] ⁻ | 714.5075 | -0.73 | C39H74NO8P | 6.64 |
| 61 | PE 16:0/18:2(OH) | [M-H] ⁻ | 730.5014 | -2 | C39H74NO9P | 3.27 |
| 62 | PE 16:0/18:3(OH) | [M-H] ⁻ | 728.4861 | 0.34 | C39H72NO9P | 3.31 |
| 63 | PE 18:0/18:2 | [M-H] ⁻ | 742.5386 | -0.89 | C41H78NO8P | 8.77 |
| 64 | PE 18:1/18:2 | [M-H] ⁻ | 740.5234 | -0.39 | C41H76NO8P | 6.78 |
| 65 | PE 18:1/18:3 | [M-H] ⁻ | 738.5079 | -0.1 | C41H74NO8P | 5.49 |
| 66 | PE 18:2/16:0 | [M-H] ⁻ | 714.5071 | -1.1 | C39H74NO8P | 4.07 |
| 67 | PE 18:2/18:2 | [M-H] ⁻ | 738.5079 | -1.47 | C41H74NO8P | 3.53 |
| 68 | PE 18:3/18:2 | [M-H] ⁻ | 736.4926 | 0.38 | C41H72NO8P | 4.57 |
| 69 | PE 18:3/24:0 | [M-H] ⁻ | 870.6261 | 3.61 | C47H88NO8P | 13.05 |
| 70 | PE 20:0/18:2 | [M-H] ⁻ | 770.5709 | 0.49 | C43H82NO8P | 11.59 |
| 71 | PE 20:0/20:0 | [M-H] ⁻ | 802.6324 | -0.92 | C45H90NO8P | 12.86 |
| 72 | PE 21:1_18:2 | [M-H] ⁻ | 782.5703 | -0.24 | C44H82NO8P | 10.11 |
| 73 | PE 22:0/18:2 | [M-H] ⁻ | 798.6007 | -1.48 | C45H86NO8P | 13.15 |
| 74 | PE 24:0/18:2 | [M-H] ⁻ | 826.6326 | -0.6 | C47H90NO8P | 13.67 |
| 75 | PE 25:1/18:2 | [M-H] ⁻ | 838.6320 | -1.34 | C48H89NO8P | 13.38 |
| 76 | PG 16:0/18:2 | [M-H] ⁻ | 745.5019 | -1.08 | C40H75O10P | 5.03 |
| 77 | PG 18:2/18:2 | [M-H] ⁻ | 769.5014 | -1.52 | C42H75O10P | 3.82 |
| 78 | PG 18:2/18:2 | [M-H] ⁻ | 769.5025 | -0.05 | C42H75O10P | 4.45 |
| 79 | PI 16:0/16:0 | [M-H] ⁻ | 809.5185 | -0.08 | C41H79O13P | 5.55 |
| 80 | PI 16:0/18:1 | [M-H] ⁻ | 835.5343 | 0.35 | C43H81O13P | 5.75 |
| 81 | PI 16:0/18:2 | [M-H] ⁻ | 833.5183 | -0.28 | C43H79O13P | 4.68 |
| 82 | PI 16:0/18:2 (OH) | [M-H] ⁻ | 849.5119 | -1.19 | C43H80O14P | 2.50 |
| 83 | PI 16:0/18:3 | [M-H] ⁻ | 831.5019 | -1.23 | C43H76O13P | 3.98 |
| 84 | PI 18:0/18:2 | [M-H] ⁻ | 861.5494 | -0.9 | C45H83O13P | 6.12 |
| 85 | PI 18:0/18:3 | [M-H] ⁻ | 859.5340 | -0.78 | C45H81O13P | 4.83 |

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|-----|-------------------|-----------------------------------|----------|-------|-------------|-------|
| 86 | PI 18:1/18:3 | [M-H] ⁻ | 857.5175 | -1.26 | C45H79O13P | 4.01 |
| 87 | PI 18:3/18:2 | [M-H] ⁻ | 855.5017 | -1.41 | C45H77O13P | 3.43 |
| 88 | PMeOH 15:0/17:2 | [M-H] ⁻ | 657.4499 | -0.25 | C36H67O8P | 5.01 |
| 89 | PMeOH 18:0/18:2 | [M-H] ⁻ | 713.5200 | -0.78 | C40H75O8P | 7.38 |
| 90 | PMeOH 21:0/18:2 | [M-H] ⁻ | 755.5591 | -1.1 | C43H81O8P | 12.85 |
| 91 | PMeOH 22:0/18:2 | [M-H] ⁻ | 769.5750 | -0.33 | C44H83O8P | 12.73 |
| 92 | PMeOH 23:1/18:2 | [M-H] ⁻ | 781.5747 | -0.76 | C45H83O8P | 12.82 |
| 93 | PMeOH 24:1/18:2 | [M-H] ⁻ | 795.5901 | -0.16 | C46H85O8P | 13.15 |
| 94 | PS 22:0/18:2 | [M-H] ⁻ | 842.5911 | -0.61 | C46H86NO10P | 10.99 |
| 95 | PS 24:1/18:2 | [M-H] ⁻ | 868.6067 | -0.76 | C48H88NO10P | 10.87 |
| 96 | TG 16:1/16:1/16:0 | [M+NH ₄] ⁺ | 820.7365 | -2.86 | C51H94O6 | 15.22 |
| 97 | TG 16:0/16:0/18:3 | [M+H] ⁺ | 829.7268 | -1.37 | C53H96O6 | 14.27 |
| 98 | TG 14:0/18:2/17:1 | [M+NH ₄] ⁺ | 832.7368 | -2.46 | C52H94O6 | 15.19 |
| 99 | TG 16:0/17:0/18:2 | [M+NH ₄] ⁺ | 834.7540 | -0.64 | C52H96O6 | 15.42 |
| 100 | TG 16:1/18:2/16:2 | [M+NH ₄] ⁺ | 842.7228 | -0.53 | C53H92O6 | 14.69 |
| 101 | TG 16:1/16:1/18:2 | [M+NH ₄] ⁺ | 844.7390 | 0.16 | C53H94O6 | 14.95 |
| 102 | TG 18:2/14:0/18:1 | [M+NH ₄] ⁺ | 846.7522 | -2.68 | C53H96O6 | 15.24 |
| 103 | TG 16:0/18:2/16:0 | [M+NH ₄] ⁺ | 848.7686 | -1.87 | C53H98O6 | 15.56 |
| 104 | TG 16:0/18:1/16:0 | [M+NH ₄] ⁺ | 850.7840 | -2.19 | C53H100O6 | 15.82 |
| 105 | TG 16:0/18:0/16:0 | [M+NH ₄] ⁺ | 852.8003 | -1.35 | C53H102O6 | 16.11 |
| 106 | TG 16:1/17:2/18:2 | [M+NH ₄] ⁺ | 856.7372 | -1.99 | C54H94O6 | 14.90 |
| 107 | TG 16:1/17:1/18:2 | [M+NH ₄] ⁺ | 858.7522 | -2.76 | C54H96O6 | 15.15 |
| 108 | TG 16:1/16:0/19:3 | [M+NH ₄] ⁺ | 858.7526 | -2.46 | C54H96O6 | 15.19 |
| 109 | TG 16:0/17:1/18:2 | [M+NH ₄] ⁺ | 860.7689 | -1.43 | C54H98O6 | 15.44 |
| 110 | TG 16:0/17:0/18:2 | [M+NH ₄] ⁺ | 862.7851 | -0.8 | C54H100O6 | 15.71 |
| 111 | TG 18:2/16:1/18:3 | [M+NH ₄] ⁺ | 868.7365 | -2.7 | C55H94O6 | 14.70 |
| 112 | TG 18:2/18:2/16:0 | [M+NH ₄] ⁺ | 872.7656 | -2.93 | C55H98O6 | 15.30 |
| 113 | TG 18:1/18:2/16:0 | [M+NH ₄] ⁺ | 874.7845 | -2.13 | C55H100O6 | 15.56 |
| 114 | TG 18:1/18:1/16:0 | [M+NH ₄] ⁺ | 876.7993 | -2.49 | C55H102O6 | 15.83 |
| 115 | TG 16:0/16:0/20:1 | [M+NH ₄] ⁺ | 878.8157 | -1.62 | C55H104O6 | 16.10 |
| 116 | TG 18:1/18:0/16:0 | [M+NH ₄] ⁺ | 878.8157 | -1.62 | C55H104O6 | 16.10 |
| 117 | TG 18:0/18:0/16:1 | [M+NH ₄] ⁺ | 878.8157 | -1.62 | C55H104O6 | 16.10 |
| 118 | TG 18:0/18:0/16:0 | [M+NH ₄] ⁺ | 880.8303 | -2.8 | C55H106O6 | 16.37 |
| 119 | TG 18:2/15:1/20:3 | [M+NH ₄] ⁺ | 882.7527 | -2.05 | C56H96O6 | 14.88 |
| 120 | TG 18:2/15:0/20:3 | [M+NH ₄] ⁺ | 884.7676 | -2.96 | C56H98O6 | 15.17 |
| 121 | TG 18:1/15:0/20:3 | [M+NH ₄] ⁺ | 886.7838 | -2.25 | C56H100O6 | 15.45 |
| 122 | TG 18:3/18:2/18:3 | [M+NH ₄] ⁺ | 892.7361 | -3.09 | C57H94O6 | 14.48 |
| 123 | TG 18:2/18:2/18:3 | [M+NH ₄] ⁺ | 894.7528 | -1.96 | C57H96O6 | 14.75 |
| 124 | TG 18:2/18:2/18:2 | [M+NH ₄] ⁺ | 896.7682 | -2.16 | C57H98O6 | 15.03 |
| 125 | TG 20:3/16:1/18:1 | [M+NH ₄] ⁺ | 898.7829 | -3.23 | C57H100O6 | 15.30 |
| 126 | TG 18:1/18:1/18:2 | [M+NH ₄] ⁺ | 900.7998 | -1.18 | C57H102O6 | 15.60 |
| 127 | TG 18:1/18:1/18:1 | [M+NH ₄] ⁺ | 902.8150 | -2.3 | C57H104O6 | 15.81 |

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|-----|--------------------|-----------------------------------|----------|-------|-----------|-------|
| 128 | TG 18:1/18:1/18:0 | [M+NH ₄] ⁺ | 904.8310 | -1.96 | C57H106O6 | 16.09 |
| 129 | TG 18:0/18:0/18:2 | [M+NH ₄] ⁺ | 904.8310 | -1.96 | C57H106O6 | 16.09 |
| 130 | TG 18:2/19:1/18:2 | [M+NH ₄] ⁺ | 910.7999 | -1.73 | C58H102O6 | 15.45 |
| 131 | TG 18:2/20:1/18:2 | [M+NH ₄] ⁺ | 926.8157 | -1.56 | C59H104O6 | 15.60 |
| 132 | TG 20:0/18:2/18:2 | [M+NH ₄] ⁺ | 928.8305 | -2.48 | C59H106O6 | 15.88 |
| 133 | TG 22:0/16:0/18:2 | [M+NH ₄] ⁺ | 932.8598 | -4.53 | C59H110O6 | 16.37 |
| 134 | TG 21:1/18:2/18:3 | [M+NH ₄] ⁺ | 938.8150 | -2.28 | C60H104O6 | 15.49 |
| 135 | TG 18:2/21:1/18:2 | [M+NH ₄] ⁺ | 940.8312 | -1.62 | C60H106O6 | 15.73 |
| 136 | TG 22:1/18:2/18:2 | [M+NH ₄] ⁺ | 954.8461 | -2.44 | C61H108O6 | 15.90 |
| 137 | TG 22:0/18:2/18:2 | [M+NH ₄] ⁺ | 956.8625 | -1.61 | C61H110O6 | 16.15 |
| 138 | TG 18:2/22:0/18:1 | [M+NH ₄] ⁺ | 958.8768 | -3.07 | C61H112O6 | 16.35 |
| 139 | TG 18:2/21:1/20:2 | [M+NH ₄] ⁺ | 968.8612 | -2.14 | C62H110O6 | 15.99 |
| 140 | TG 18:2/18:2/24:0 | [M+NH ₄] ⁺ | 984.8915 | -3.93 | C63H114O6 | 16.40 |
| 141 | DG 18:3/16:0 | [M+H] ⁺ | 591.4970 | -2.23 | C37H66O5 | 4.76 |
| 142 | DG 18:3/18:3 | [M+H] ⁺ | 613.4819 | -1.23 | C39H64O5 | 5.86 |
| 143 | DG 18:3/18:2 | [M+H] ⁺ | 615.4971 | -1.94 | C39H66O5 | 7.11 |
| 144 | DG 18:3/18:2 | [M+H] ⁺ | 615.4973 | -1.58 | C39H66O5 | 4.02 |
| 145 | DG 18:2/18:2 | [M+H] ⁺ | 617.5127 | -1.98 | C39H68O5 | 8.68 |
| 146 | DG 18:1/18:3 | [M+H] ⁺ | 617.5127 | -1.98 | C39H68O5 | 8.68 |
| 147 | DG 18:2/18:1 | [M+H] ⁺ | 619.5289 | -1.18 | C39H70O5 | 10.83 |
| 148 | DG 18:2/18:0 | [M+H] ⁺ | 621.5430 | -3.57 | C39H72O5 | 12.97 |
| 149 | Cer d18:2/n16:1 | [M+H] ⁺ | 534.4872 | -1.69 | C34H63NO3 | 4.98 |
| 150 | Cer d18:1/h16:0 | [M+H] ⁺ | 554.5130 | -2.25 | C34H67NO4 | 5.46 |
| 151 | Cer t18:1/h20:0 | [M+H] ⁺ | 626.5718 | -0.04 | C38H75NO5 | 9.35 |
| 152 | Cer t18:1/n22:2 | [M+H] ⁺ | 634.5759 | -0.95 | C40H75NO4 | 7.93 |
| 153 | Cer t18:1/h21:0 | [M+H] ⁺ | 640.5864 | -1.6 | C39H77NO5 | 10.80 |
| 154 | Cer t18:1/h22:1 | [M+H] ⁺ | 652.5863 | 2.2 | C40H77NO5 | 9.45 |
| 155 | Cer t18:1/h22:1 | [M+H] ⁺ | 652.5868 | 2.3 | C40H77NO5 | 7.92 |
| 156 | Cer t18:1/h22:0 | [M+H] ⁺ | 654.6020 | -1.61 | C40H79NO5 | 12.45 |
| 157 | Cer t18:1/h22:0 | [M+H] ⁺ | 654.6020 | -1.69 | C40H79NO5 | 10.17 |
| 158 | Cer t18:1/h22:0 | [M+H] ⁺ | 654.6021 | -1.51 | C40H79NO5 | 10.46 |
| 159 | Cer t18:1/h23:0 | [M+H] ⁺ | 668.6176 | -1.7 | C41H81NO5 | 11.99 |
| 160 | Cer t18:1/h23:0 | [M+H] ⁺ | 668.6179 | -1.25 | C41H81NO5 | 13.04 |
| 161 | Cer t18:1/h24:1 | [M+H] ⁺ | 680.6177 | -1.06 | C42H81NO5 | 12.39 |
| 162 | Cer t18:1/h24:0 | [M+H] ⁺ | 682.6334 | -1.44 | C42H83NO5 | 13.34 |
| 163 | Cer t18:1/h24:0 | [M+H] ⁺ | 682.6336 | -1.12 | C42H83NO5 | 12.91 |
| 164 | Cer t18:0/h24:0 | [M+H] ⁺ | 684.6491 | -1.46 | C42H85NO5 | 13.60 |
| 165 | Cer t18:1/h25:0 | [M+H] ⁺ | 696.6492 | -1.2 | C43H85NO5 | 13.60 |
| 166 | Cer t18:1/h26:0 | [M+H] ⁺ | 710.6652 | -0.96 | C44H87NO5 | 13.86 |
| 167 | Cer t18:0/h26:0 | [M+H] ⁺ | 712.6804 | -1.39 | C44H89NO5 | 14.10 |
| 168 | Cer t18:1/h27:0 | [M+H] ⁺ | 724.6802 | -1.63 | C45H89NO5 | 14.10 |
| 169 | HexCer d18:3/n16:0 | [M+H] ⁺ | 696.5394 | 1.24 | C40H73NO8 | 4.84 |
| 170 | HexCer d18:3/n16:0 | [M+H] ⁺ | 696.5399 | 1.95 | C40H73NO8 | 4.97 |

24 LPA: Lysosphosphatidic acid; LPC: Lysophosphatidylcholine; LPE:
25 Lysophosphatidylethanolamine; LPI: Lysophosphatidylinositol; PA: Phosphatidic
26 acid; PC: Phosphatidylcholine; PE: Phosphatidylethanolamine; PG:
27 Phosphatidylglycerol; PI: Phosphatidylinositol; PMeOH: Phosphatidylmethanol; PS:
28 Phosphatidylinositol; TG: Triacylglycerol; DG: Diacylglycerol; Cer: Ceramide;
29 HexCer: Hexosylceramide.