

Table S5. List of all lipid molecular species identified from Calu-3 cells using capillary UPLC-MS and the HSS T3 material. The chain length denotes the total number of acyl carbons followed by total double bonds.

Molecular Species	Formula	Formula Mass (isotopic)	Expected <i>m/z</i>	Observed <i>m/z</i>	Ion Type	Mass Error (ppm)	Retention Time (min)	Ion Intensity
18:2 Cholesteryl ester	C <sub>45</sub> H <sub>76</sub> O <sub>2</sub>	648.5845	666.6189	666.6169	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.0	67.82	2.04E+05
20:4 Cholesteryl ester	C <sub>47</sub> H <sub>76</sub> O <sub>2</sub>	672.5845	690.6189	690.6165	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.4	66.90	2.41E+05
20:5 Cholesteryl ester	C <sub>47</sub> H <sub>74</sub> O <sub>2</sub>	670.5689	688.6032	688.6011	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.1	65.83	2.27E+05
alpha-hydroxycholestanol	C <sub>27</sub> H <sub>48</sub> O <sub>2</sub>	404.3654	422.3998	422.3986	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.8	25.14	1.93E+05
Cer(d42:1)	C <sub>42</sub> H <sub>83</sub> NO <sub>3</sub>	649.6373	650.6451	650.6430	[M+H] <sup>+</sup>	-3.2	57.52	2.15E+06
Cer(d42:2)	C <sub>42</sub> H <sub>81</sub> NO <sub>3</sub>	647.6216	648.6294	648.6275	[M+H] <sup>+</sup>	-3.0	51.28	1.42E+06
Cholesterol	C <sub>27</sub> H <sub>46</sub> O	386.3549	404.3892	404.3873	[M+NH <sub>4</sub> ] <sup>+</sup>	-4.8	35.13	5.05E+05
DG(32:0)	C <sub>35</sub> H <sub>68</sub> O <sub>5</sub>	568.5066	586.5410	586.5384	[M+NH <sub>4</sub> ] <sup>+</sup>	-4.4	48.47	4.03E+05
DG(34:0)	C <sub>37</sub> H <sub>72</sub> O <sub>5</sub>	596.5379	614.5723	614.5698	[M+NH <sub>4</sub> ] <sup>+</sup>	-4.1	53.22	2.85E+05
DG(34:1)	C <sub>37</sub> H <sub>70</sub> O <sub>5</sub>	594.5223	612.5567	612.5545	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.6	49.15	4.19E+06
DG(36:1)	C <sub>39</sub> H <sub>74</sub> O <sub>5</sub>	622.5536	640.5880	640.5856	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.6	53.25	1.59E+06
DG(36:2)	C <sub>39</sub> H <sub>72</sub> O <sub>5</sub>	620.5379	638.5723	638.5702	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.4	49.69	9.76E+05
DG(38:2)	C <sub>41</sub> H <sub>76</sub> O <sub>5</sub>	648.5692	666.6036	666.6011	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.7	53.11	6.88E+05
DG(38:3)	C <sub>41</sub> H <sub>74</sub> O <sub>5</sub>	646.5536	664.5880	664.5862	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.7	51.71	2.92E+05
DG(38:4)	C <sub>41</sub> H <sub>72</sub> O <sub>5</sub>	644.5379	662.5723	662.5701	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.4	49.15	5.55E+05
DG(40:1)	C <sub>43</sub> H <sub>82</sub> O <sub>5</sub>	678.6162	696.6506	696.6485	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.9	57.92	3.99E+05
DG(40:2)	C <sub>43</sub> H <sub>80</sub> O <sub>5</sub>	676.6005	694.6349	694.6323	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.7	56.37	3.71E+05
DG(42:1)	C <sub>45</sub> H <sub>86</sub> O <sub>5</sub>	706.6475	724.6819	724.6805	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.9	60.43	3.12E+05
DG(42:2)	C <sub>45</sub> H <sub>84</sub> O <sub>5</sub>	704.6318	722.6662	722.6642	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.8	58.85	3.74E+05
FA(13:0)	C <sub>13</sub> H <sub>26</sub> O <sub>2</sub>	214.1933	213.1854	213.1866	[M-H] <sup>-</sup>	5.3	16.45	1.24E+05
FA(14:0)	C <sub>14</sub> H <sub>28</sub> O <sub>2</sub>	228.2089	227.2011	227.2021	[M-H] <sup>-</sup>	4.3	19.23	2.45E+05
FA(15:0)	C <sub>15</sub> H <sub>30</sub> O <sub>2</sub>	242.2246	241.2167	241.2178	[M-H] <sup>-</sup>	4.3	20.43	1.12E+06
FA(16:0)	C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	256.2402	255.2324	255.2326	[M-H] <sup>-</sup>	0.7	22.19	2.26E+07
FA(16:1)	C <sub>16</sub> H <sub>30</sub> O <sub>2</sub>	254.2246	253.2167	253.2176	[M-H] <sup>-</sup>	3.3	18.31	3.08E+05
FA(17:0)	C <sub>17</sub> H <sub>34</sub> O <sub>2</sub>	270.2559	269.2480	269.2491	[M-H] <sup>-</sup>	3.8	23.18	1.71E+06
FA(17:1)	C <sub>17</sub> H <sub>32</sub> O <sub>2</sub>	268.2402	267.2324	267.2330	[M-H] <sup>-</sup>	2.2	21.24	1.53E+05
FA(18:0)	C <sub>18</sub> H <sub>36</sub> O <sub>2</sub>	284.2715	283.2637	283.2643	[M-H] <sup>-</sup>	2.0	27.44	1.66E+06
FA(18:1)	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	282.2559	281.2480	281.2487	[M-H] <sup>-</sup>	2.2	22.84	3.53E+06
FA(18:2)	C <sub>18</sub> H <sub>32</sub> O <sub>2</sub>	280.2402	279.2324	279.2333	[M-H] <sup>-</sup>	3.1	20.35	9.44E+05

FA(18:3)	C <sub>18</sub> H <sub>30</sub> O <sub>2</sub>	278.2246	277.2167	277.2178	[M-H]-	3.7	17.59	8.68E+04
FA(20:0)	C <sub>20</sub> H <sub>40</sub> O <sub>2</sub>	312.3028	311.2950	311.2957	[M-H]-	2.2	29.52	1.47E+05
FA(20:1)	C <sub>20</sub> H <sub>38</sub> O <sub>2</sub>	310.2872	309.2794	309.2801	[M-H]-	2.3	25.67	1.03E+06
FA(20:2)	C <sub>20</sub> H <sub>36</sub> O <sub>2</sub>	308.2715	307.2637	307.2645	[M-H]-	2.5	22.96	2.86E+05
FA(20:3)	C <sub>20</sub> H <sub>34</sub> O <sub>2</sub>	306.2559	305.2481	305.2488	[M-H]-	2.3	21.52	1.15E+05
FA(20:4)	C <sub>20</sub> H <sub>32</sub> O <sub>2</sub>	304.2402	303.2324	303.2333	[M-H]-	2.9	18.90	2.15E+05
FA(20:5)	C <sub>20</sub> H <sub>30</sub> O <sub>2</sub>	302.2246	301.2167	301.2177	[M-H]-	3.1	17.11	8.33E+05
FA(22:1)	C <sub>22</sub> H <sub>42</sub> O <sub>2</sub>	338.3185	337.3106	337.3112	[M-H]-	1.6	29.06	1.23E+05
FA(22:2)	C <sub>22</sub> H <sub>40</sub> O <sub>2</sub>	336.3028	335.2950	335.2956	[M-H]-	1.8	26.25	9.24E+04
FA(22:4)	C <sub>22</sub> H <sub>36</sub> O <sub>2</sub>	332.2715	331.2637	331.2635	[M-H]-	-0.7	22.10	3.88E+05
FA(22:5)	C <sub>22</sub> H <sub>34</sub> O <sub>2</sub>	330.2559	329.2481	329.2491	[M-H]-	3.0	19.51	1.77E+05
FA(22:6)	C <sub>22</sub> H <sub>32</sub> O <sub>2</sub>	328.2402	327.2324	327.2334	[M-H]-	3.0	18.19	3.94E+05
FA(24:0)	C <sub>24</sub> H <sub>48</sub> O <sub>2</sub>	368.3654	367.3576	367.3583	[M-H]-	1.9	41.17	2.64E+05
FA(24:1)	C <sub>24</sub> H <sub>46</sub> O <sub>2</sub>	366.3497	365.3419	365.3429	[M-H]-	2.7	33.41	2.12E+05
FA(26:0)	C <sub>26</sub> H <sub>52</sub> O <sub>2</sub>	396.3967	395.3889	395.3898	[M-H]-	2.2	48.19	2.07E+05
FA(26:1)	C <sub>26</sub> H <sub>50</sub> O <sub>2</sub>	394.3811	393.3732	393.3741	[M-H]-	2.1	39.11	7.89E+04
GlcCer(d18:1/24:1)	C <sub>48</sub> H <sub>91</sub> NO <sub>8</sub>	809.6744	810.6823	810.6811	[M+H]+	-1.4	53.97	7.44E+05
LacCer(d18:1/16:0)	C <sub>46</sub> H <sub>87</sub> NO <sub>13</sub>	861.6177	862.6255	862.6234	[M+H]+	-2.5	31.28	6.25E+05
LacCer(d18:1/24:0)	C <sub>54</sub> H <sub>103</sub> NO <sub>13</sub>	973.7429	974.7507	974.7479	[M+H]+	-2.9	50.29	1.12E+06
LacCer(d18:1/24:1)	C <sub>54</sub> H <sub>101</sub> NO <sub>13</sub>	971.7273	972.7351	972.7315	[M+H]+	-3.6	48.16	7.01E+05
LPA(14:0)	C <sub>17</sub> H <sub>35</sub> O <sub>7</sub> P	382.2120	381.2042	381.2053	[M-H]-	2.8	11.52	3.81E+04
LPC(14:0)	C <sub>22</sub> H <sub>46</sub> NO <sub>7</sub> P	467.3012	468.3090	468.3081	[M+H]+	-1.9	13.19	9.03E+05
LPC(16:0) or PC(O-16:0)	C <sub>24</sub> H <sub>50</sub> NO <sub>7</sub> P	495.3325	496.3403	496.3390	[M+H]+	-2.6	16.07	1.39E+07
LPC(16:1)	C <sub>24</sub> H <sub>48</sub> NO <sub>7</sub> P	493.3168	494.3246	494.3245	[M+H]+	-0.3	13.82	1.06E+06
LPC(17:0)	C <sub>25</sub> H <sub>52</sub> NO <sub>7</sub> P	509.3481	510.3559	510.3551	[M+H]+	-1.7	16.93	1.82E+05
LPC(18:0) or PC(O-18:0)	C <sub>26</sub> H <sub>54</sub> NO <sub>7</sub> P	523.3638	524.3716	524.3705	[M+H]+	-2.0	19.83	3.03E+06
LPC(18:1) or PC(O-18:1) or PC(P-18:0)	C <sub>26</sub> H <sub>52</sub> NO <sub>7</sub> P	521.3481	522.3559	522.3546	[M+H]+	-2.6	14.82	8.33E+05
LPC(18:2)	C <sub>26</sub> H <sub>50</sub> NO <sub>7</sub> P	519.3325	520.3403	520.3399	[M+H]+	-0.7	13.91	7.27E+05
LPC(19:0) or PC(O-19:0)	C <sub>27</sub> H <sub>56</sub> NO <sub>7</sub> P	537.3794	538.3872	538.3870	[M+H]+	-0.4	21.39	6.92E+04
LPC(19:1)	C <sub>27</sub> H <sub>54</sub> NO <sub>7</sub> P	535.3638	536.3716	536.3698	[M+H]+	-3.3	17.65	1.45E+05
LPC(20:3)	C <sub>28</sub> H <sub>52</sub> NO <sub>7</sub> P	545.3481	546.3559	546.3529	[M+H]+	-5.6	19.15	9.38E+04
LPC(20:4)	C <sub>28</sub> H <sub>50</sub> NO <sub>7</sub> P	543.3325	544.3403	544.3366	[M+H]+	-6.7	16.12	2.91E+05
LPC(20:5)	C <sub>28</sub> H <sub>48</sub> NO <sub>7</sub> P	541.3168	542.3246	542.3240	[M+H]+	-1.2	12.28	6.67E+04
LPC(22:1)	C <sub>30</sub> H <sub>60</sub> NO <sub>7</sub> P	577.4107	578.4185	578.4178	[M+H]+	-1.3	22.54	9.03E+04

LPC(22:6)	C30H50NO7P	567.3325	568.3403	568.3401	[M+H]+	-0.4	13.12	1.34E+05
LPC(O-16:0) or PC(O-8:0/O-8:0)	C24H52NO6P	481.3532	482.3610	482.3599	[M+H]+	-2.3	16.87	2.56E+06
LPC(O-16:1) or LPC(P-16:0)	C24H50NO6P	479.3376	480.3454	480.3442	[M+H]+	-2.5	16.09	4.67E+05
LPC(O-17:0) or PC(O-16:0/O-1:0)	C25H54NO6P	495.3689	496.3767	496.3768	[M+H]+	0.1	18.23	4.11E+04
LPC(O-18:0) or PC(O-16:0/O-2:0)	C26H56NO6P	509.3845	510.3923	510.3923	[M+H]+	-0.1	21.10	3.45E+06
LPC(O-20:0) or PC(O-18:0/O-2:0)	C28H60NO6P	537.4158	538.4236	538.4225	[M+H]+	-2.0	25.00	9.27E+05
LPC(P-18:1)	C26H52NO6P	505.3532	506.3610	506.3600	[M+H]+	-2.1	16.74	1.95E+05
LPE(16:0)	C21H44NO7P	453.2855	454.2933	454.2922	[M+H]+	-2.6	16.59	9.06E+05
LPE(16:1)	C21H42NO7P	451.2699	452.2777	452.2770	[M+H]+	-1.6	13.52	9.02E+04
LPE(17:0)	C22H46NO7P	467.3012	468.3090	468.3087	[M+H]+	-0.6	18.38	8.75E+04
LPE(18:0)	C23H48NO7P	481.3168	482.3246	482.3241	[M+H]+	-1.1	21.19	8.33E+04
LPE(18:1)	C23H46NO7P	479.3012	480.3090	480.3085	[M+H]+	-1.1	22.52	2.38E+04
LPE(18:2)	C23H44NO7P	477.2855	478.2933	478.2930	[M+H]+	-0.7	14.17	1.12E+05
LPE(20:0)	C25H52NO7P	509.3481	510.3559	510.3551	[M+H]+	-1.7	16.93	1.82E+05
LPE(20:1)	C25H50NO7P	507.3325	508.3403	508.3401	[M+H]+	-0.4	20.21	3.52E+05
LPE(20:2)	C25H48NO7P	505.3168	506.3246	506.3242	[M+H]+	-0.8	17.74	7.86E+04
LPE(20:3)	C25H46NO7P	503.3012	504.3090	504.3081	[M+H]+	-1.8	15.21	1.38E+05
LPE(20:5)	C25H42NO7P	499.2699	500.2777	500.2775	[M+H]+	-0.4	12.34	1.83E+05
LPE(22:6)	C27H44NO7P	525.2855	526.2933	526.2925	[M+H]+	-1.5	13.37	6.25E+05
LPG(16:0)	C22H45O9P	484.2801	483.2723	483.2741	[M-H]-	3.8	13.70	3.69E+04
LPG(18:0)	C24H49O9P	512.3114	511.3036	511.3055	[M-H]-	3.7	15.93	3.57E+04
LPG(18:1)	C24H47O9P	510.2958	509.2879	509.2890	[M-H]-	2.1	14.00	2.90E+05
LPG(22:6)	C28H45O9P	556.2801	555.2723	555.2734	[M-H]-	1.9	11.82	3.23E+04
LPI(16:0)	C25H49O12P	572.2962	571.2883	571.2900	[M-H]-	2.9	13.56	1.41E+05
LPI(18:0)	C27H53O12P	600.3275	599.3196	599.3215	[M-H]-	3.2	15.65	5.73E+05
LPI(18:1)	C27H51O12P	598.3118	597.3040	597.3050	[M-H]-	1.7	13.92	2.56E+05
LPI(20:2)	C29H53O12P	624.3275	623.3196	623.3209	[M-H]-	2.0	14.23	2.87E+04
LPI(20:3)	C29H51O12P	622.3118	621.3040	621.3058	[M-H]-	2.9	13.10	5.53E+04
LPI(20:4)	C29H49O12P	620.2962	619.2883	619.2890	[M-H]-	1.1	12.32	1.80E+05
LPI(22:4)	C31H53O12P	648.3275	647.3196	647.3214	[M-H]-	2.7	13.53	3.14E+04
LPI(22:6)	C31H49O12P	644.2962	643.2883	643.2894	[M-H]-	1.7	11.90	2.14E+04
LPS(18:1)	C24H46NO9P	523.2910	524.2988	524.2985	[M+H]+	-0.5	13.13	1.23E+05
LPS(18:2)	C24H44NO9P	521.2754	522.2832	522.2832	[M+H]+	0.1	11.39	1.22E+04
LPS(20:0)	C26H52NO9P	553.3380	554.3458	554.3452	[M+H]+	-1.0	20.00	2.39E+04

LPS(22:0)	C28H56NO9P	581.3693	582.3771	582.3764	[M+H]+	-1.2	22.56	7.59E+04
LPS(22:6)	C28H44NO9P	569.2754	570.2832	570.2830	[M+H]+	-0.4	12.65	1.36E+04
MG(20:4)	C23H38O4	378.2770	396.3114	396.3096	[M+NH4]+	-4.4	17.56	1.26E+05
PA(36:1)	C39H75O8P	702.5199	701.5121	701.5135	[M-H]-	2.0	30.11	4.29E+05
PC(18:1)	C26H50NO8P	535.3274	536.3352	536.3353	[M+H]+	0.1	21.01	2.87E+04
PC(19:1)	C27H52NO8P	549.3430	550.3509	550.3493	[M+H]+	-2.9	15.85	2.31E+06
PC(20:0)	C28H56NO8P	565.3743	566.3822	566.3808	[M+H]+	-2.3	17.19	3.13E+05
PC(20:1)	C28H54NO8P	563.3587	564.3665	564.3655	[M+H]+	-1.7	21.59	1.04E+05
PC(21:0)	C29H58NO8P	579.3900	580.3978	580.3953	[M+H]+	-4.3	19.18	3.80E+04
PC(22:1)	C30H58NO8P	591.3900	592.3978	592.3977	[M+H]+	-0.2	21.34	1.18E+05
PC(26:0)	C34H68NO8P	649.4682	650.4761	650.4743	[M+H]+	-2.7	25.32	2.30E+05
PC(27:0)	C35H70NO8P	663.4839	664.4917	664.4906	[M+H]+	-1.7	27.24	2.68E+05
PC(28:0)	C36H72NO8P	677.4995	678.5074	678.5057	[M+H]+	-2.4	27.50	6.99E+06
PC(29:0)	C37H74NO8P	691.5152	692.5230	692.5218	[M+H]+	-1.7	30.13	2.49E+06
PC(29:1)	C37H72NO8P	689.4995	690.5074	690.5053	[M+H]+	-2.9	34.29	9.72E+05
PC(30:0)	C38H76NO8P	705.5308	706.5387	706.5372	[M+H]+	-2.1	31.99	3.90E+07
PC(31:0)	C39H78NO8P	719.5465	720.5543	720.5527	[M+H]+	-2.2	34.48	3.38E+06
PC(31:1)	C39H76NO8P	717.5308	718.5387	718.5368	[M+H]+	-2.5	38.84	9.53E+06
PC(31:2)	C39H74NO8P	715.5152	716.5230	716.5213	[M+H]+	-2.4	35.03	8.81E+05
PC(32:0)	C40H80NO8P	733.5621	734.5700	734.5684	[M+H]+	-2.2	36.08	1.25E+07
PC(32:1)	C40H78NO8P	731.5465	732.5543	732.5519	[M+H]+	-3.2	30.09	9.42E+07
PC(32:2)	C40H76NO8P	729.5308	730.5387	730.5368	[M+H]+	-2.6	29.86	2.35E+07
PC(32:3)	C40H74NO8P	727.5152	728.5230	728.5210	[M+H]+	-2.8	26.10	1.85E+05
PC(33:0)	C41H82NO8P	747.5778	748.5856	748.5851	[M+H]+	-0.6	38.70	1.48E+06
PC(33:1)	C41H80NO8P	745.5621	746.5700	746.5693	[M+H]+	-0.8	35.10	1.58E+07
PC(33:2)	C41H78NO8P	743.5465	744.5543	744.5526	[M+H]+	-2.2	39.54	1.26E+07
PC(33:3)	C41H76NO8P	741.5308	742.5387	742.5371	[M+H]+	-2.1	28.19	2.17E+05
PC(34:0)	C42H84NO8P	761.5934	762.6012	762.5993	[M+H]+	-2.6	45.21	9.70E+06
PC(34:1)	C42H82NO8P	759.5778	760.5856	760.5820	[M+H]+	-4.7	33.39	1.54E+08
PC(34:2)	C42H80NO8P	757.5621	758.5700	758.5676	[M+H]+	-3.2	33.74	8.80E+07
PC(34:3)	C42H78NO8P	755.5465	756.5543	756.5524	[M+H]+	-2.5	30.51	1.50E+07
PC(34:4)	C42H76NO8P	753.5308	754.5387	754.5355	[M+H]+	-4.2	28.83	1.92E+06
PC(34:5)	C42H74NO8P	751.5152	752.5230	752.5219	[M+H]+	-1.4	26.82	3.20E+05
PC(35:1)	C43H84NO8P	773.5934	774.6012	774.5984	[M+H]+	-3.6	40.50	1.47E+07

PC(35:2)	C43H82NO8P	771.5778	772.5856	772.5823	[M+H]+	-4.2	34.94	8.46E+06
PC(35:5)	C43H76NO8P	765.5308	766.5387	766.5367	[M+H]+	-2.6	35.29	5.01E+06
PC(36:1)	C44H86NO8P	787.6091	788.6169	788.6140	[M+H]+	-3.7	42.60	7.01E+07
PC(36:2)	C44H84NO8P	785.5934	786.6012	786.5978	[M+H]+	-4.4	36.28	5.88E+07
PC(36:3)	C44H82NO8P	783.5778	784.5856	784.5818	[M+H]+	-4.8	33.92	3.04E+07
PC(36:4)	C44H80NO8P	781.5621	782.5700	782.5678	[M+H]+	-2.8	31.66	1.45E+07
PC(36:5)	C44H78NO8P	779.5465	780.5543	780.5516	[M+H]+	-3.4	29.59	9.47E+06
PC(36:6)	C44H76NO8P	777.5308	778.5387	778.5359	[M+H]+	-3.5	28.57	4.40E+06
PC(37:1)	C45H88NO8P	801.6247	802.6325	802.6316	[M+H]+	-1.1	54.32	1.29E+06
PC(37:2)	C45H86NO8P	799.6091	800.6169	800.6126	[M+H]+	-5.3	39.58	5.91E+06
PC(37:5)	C45H80NO8P	793.5621	794.5700	794.5678	[M+H]+	-2.7	31.40	1.26E+06
PC(37:6)	C45H78NO8P	791.5465	792.5543	792.5521	[M+H]+	-2.8	29.65	7.38E+05
PC(38:1)	C46H90NO8P	815.6404	816.6482	816.6464	[M+H]+	-2.2	51.22	3.23E+06
PC(38:2)	C46H88NO8P	813.6247	814.6325	814.6287	[M+H]+	-4.7	43.33	2.94E+07
PC(38:3)	C46H86NO8P	811.6091	812.6169	812.6128	[M+H]+	-5.1	39.13	8.81E+06
PC(38:4)	C46H84NO8P	809.5934	810.6012	810.5968	[M+H]+	-5.5	38.65	9.50E+06
PC(38:5)	C46H82NO8P	807.5778	808.5856	808.5820	[M+H]+	-4.4	33.34	1.96E+07
PC(38:6)	C46H80NO8P	805.5621	806.5700	806.5662	[M+H]+	-4.7	32.55	1.57E+07
PC(38:7)	C46H78NO8P	803.5465	804.5543	804.5521	[M+H]+	-2.8	29.08	4.09E+06
PC(38:8)	C46H76NO8P	801.5308	802.5387	802.5370	[M+H]+	-2.1	27.86	1.21E+05
PC(39:1)	C47H92NO8P	829.6560	830.6638	830.6625	[M+H]+	-1.6	56.07	3.71E+06
PC(39:2)	C47H90NO8P	827.6404	828.6482	828.6473	[M+H]+	-1.1	53.33	1.03E+06
PC(39:3)	C47H88NO8P	825.6247	826.6325	826.6284	[M+H]+	-5.0	41.94	3.66E+05
PC(40:0)	C48H96NO8P	845.6873	846.6951	846.6930	[M+H]+	-2.6	59.62	5.61E+05
PC(40:1)	C48H94NO8P	843.6717	844.6795	844.6748	[M+H]+	-5.5	54.34	2.44E+06
PC(40:10)	C48H76NO8P	825.5308	826.5387	826.5445	[M+H]+	7.1	24.86	1.95E+05
PC(40:2)	C48H92NO8P	841.6560	842.6638	842.6606	[M+H]+	-3.9	49.33	6.70E+06
PC(40:3)	C48H90NO8P	839.6404	840.6482	840.6447	[M+H]+	-4.1	44.40	1.77E+06
PC(40:4)	C48H88NO8P	837.6247	838.6325	838.6292	[M+H]+	-4.0	39.77	2.12E+06
PC(40:5)	C48H86NO8P	835.6091	836.6169	836.6125	[M+H]+	-5.3	38.62	5.27E+06
PC(40:6)	C48H84NO8P	833.5934	834.6012	834.5975	[M+H]+	-4.5	34.61	5.89E+06
PC(40:7)	C48H82NO8P	831.5778	832.5856	832.5816	[M+H]+	-4.9	32.96	1.22E+07
PC(40:8)	C48H80NO8P	829.5621	830.5700	830.5680	[M+H]+	-2.4	29.64	2.48E+06
PC(40:9)	C48H78NO8P	827.5465	828.5543	828.5519	[M+H]+	-2.9	28.13	7.62E+05

PC(41:4)	C49H90NO8P	851.6404	852.6482	852.6462	[M+H] <sup>+</sup>	-2.3	55.63	5.05E+05
PC(42:0)	C50H100NO8P	873.7186	874.7264	874.7238	[M+H] <sup>+</sup>	-3.0	62.82	4.16E+05
PC(42:1)	C50H98NO8P	871.7030	872.7108	872.7087	[M+H] <sup>+</sup>	-2.5	56.39	3.93E+06
PC(42:10)	C50H80NO8P	853.5621	854.5700	854.5705	[M+H] <sup>+</sup>	0.7	28.56	3.73E+06
PC(42:11)	C50H78NO8P	851.5465	852.5543	852.5578	[M+H] <sup>+</sup>	4.1	26.46	6.87E+05
PC(42:2)	C50H96NO8P	869.6873	870.6951	870.6921	[M+H] <sup>+</sup>	-3.4	53.92	3.88E+06
PC(42:3)	C50H94NO8P	867.6717	868.6795	868.6765	[M+H] <sup>+</sup>	-3.4	44.86	7.50E+05
PC(42:5)	C50H90NO8P	863.6404	864.6482	864.6447	[M+H] <sup>+</sup>	-4.0	41.40	5.58E+05
PC(42:6)	C50H88NO8P	861.6247	862.6325	862.6281	[M+H] <sup>+</sup>	-5.1	39.08	8.85E+05
PC(42:7)	C50H86NO8P	859.6091	860.6169	860.6131	[M+H] <sup>+</sup>	-4.4	36.62	4.65E+05
PC(42:8)	C50H84NO8P	857.5934	858.6012	858.5981	[M+H] <sup>+</sup>	-3.7	32.31	7.35E+05
PC(42:9)	C50H82NO8P	855.5778	856.5856	856.5834	[M+H] <sup>+</sup>	-2.5	30.41	2.14E+06
PC(43:2)	C51H98NO8P	883.7030	884.7108	884.7091	[M+H] <sup>+</sup>	-1.9	56.34	2.44E+05
PC(43:6)	C51H90NO8P	875.6404	876.6482	876.6459	[M+H] <sup>+</sup>	-2.6	52.03	3.15E+05
PC(44:1)	C52H102NO8P	899.7343	900.7421	900.7396	[M+H] <sup>+</sup>	-2.7	59.28	1.98E+06
PC(44:10)	C52H84NO8P	881.5934	882.6012	882.6042	[M+H] <sup>+</sup>	3.3	32.89	6.54E+05
PC(44:12)	C52H80NO8P	877.5621	878.5700	878.5728	[M+H] <sup>+</sup>	3.2	28.34	1.32E+06
PC(44:2)	C52H100NO8P	897.7186	898.7264	898.7247	[M+H] <sup>+</sup>	-2.0	57.22	1.91E+06
PC(44:3)	C52H98NO8P	895.7030	896.7108	896.7073	[M+H] <sup>+</sup>	-3.8	54.00	9.12E+05
PC(44:4)	C52H96NO8P	893.6873	894.6951	894.6928	[M+H] <sup>+</sup>	-2.6	51.97	3.82E+05
PC(44:5)	C52H94NO8P	891.6717	892.6795	892.6764	[M+H] <sup>+</sup>	-3.4	49.59	3.06E+05
PC(46:0)	C54H108NO8P	929.7812	930.7890	930.7860	[M+H] <sup>+</sup>	-3.3	59.36	1.42E+06
PC(46:2)	C54H104NO8P	925.7499	926.7577	926.7547	[M+H] <sup>+</sup>	-3.3	59.23	2.84E+05
PC(48:2)	C56H108NO8P	953.7812	954.7890	954.7884	[M+H] <sup>+</sup>	-0.7	64.08	2.14E+05
PC(O-12:0/O-12:0)	C32H68NO6P	593.4784	594.4862	594.4844	[M+H] <sup>+</sup>	-3.1	32.22	1.28E+06
PC(O-28:0)	C36H74NO7P	663.5203	664.5281	664.5261	[M+H] <sup>+</sup>	-3.0	31.36	2.51E+06
PC(O-30:0)	C38H78NO7P	691.5516	692.5594	692.5572	[M+H] <sup>+</sup>	-3.2	36.20	1.02E+07
PC(O-30:1) or PC(P-30:0)	C38H76NO7P	689.5359	690.5437	690.5424	[M+H] <sup>+</sup>	-2.0	31.23	3.75E+06
PC(O-31:0)	C39H80NO7P	705.5672	706.5750	706.5725	[M+H] <sup>+</sup>	-3.6	38.36	3.07E+06
PC(O-31:1) or PC(P-31:0)	C39H78NO7P	703.5516	704.5594	704.5578	[M+H] <sup>+</sup>	-2.2	48.25	6.99E+05
PC(O-32:0)	C40H82NO7P	719.5829	720.5907	720.5885	[M+H] <sup>+</sup>	-3.0	41.56	1.02E+08
PC(O-32:1) or PC(P-32:0)	C40H80NO7P	717.5672	718.5750	718.5724	[M+H] <sup>+</sup>	-3.7	32.77	6.73E+06
PC(O-32:2) or PC(P-32:1)	C40H78NO7P	715.5516	716.5594	716.5577	[M+H] <sup>+</sup>	-2.4	31.31	2.50E+06
PC(O-34:0)	C42H86NO7P	747.6142	748.6220	748.6200	[M+H] <sup>+</sup>	-2.6	50.02	3.26E+07

PC(O-34:4) or PC(P-34:3)	C42H78NO7P	739.5516	740.5594	740.5572	[M+H] <sup>+</sup>	-2.9	30.57	3.83E+05
PC(O-35:0)	C43H88NO7P	761.6298	762.6376	762.6365	[M+H] <sup>+</sup>	-1.6	52.49	4.73E+05
PC(O-35:2)	C43H84NO7P	757.5985	758.6063	758.6042	[M+H] <sup>+</sup>	-2.9	53.18	3.47E+06
PC(O-36:0)	C44H90NO7P	775.6455	776.6533	776.6523	[M+H] <sup>+</sup>	-1.3	53.90	6.81E+06
PC(O-36:1) or PC(P-36:0)	C44H88NO7P	773.6298	774.6376	774.6341	[M+H] <sup>+</sup>	-4.6	47.65	3.64E+07
PC(O-36:2) or PC(P-36:1)	C44H86NO7P	771.6142	772.6220	772.6188	[M+H] <sup>+</sup>	-4.1	42.05	3.61E+07
PC(O-36:3) or PC(P-36:2)	C44H84NO7P	769.5985	770.6063	770.6027	[M+H] <sup>+</sup>	-4.7	41.12	1.50E+07
PC(O-36:4) or PC(P-36:3)	C44H82NO7P	767.5829	768.5907	768.5871	[M+H] <sup>+</sup>	-4.7	36.55	3.29E+07
PC(O-36:5) or PC(P-36:4)	C44H80NO7P	765.5672	766.5750	766.5720	[M+H] <sup>+</sup>	-3.9	33.27	7.80E+06
PC(O-37:4)	C45H84NO7P	781.5985	782.6063	782.6027	[M+H] <sup>+</sup>	-4.6	39.38	1.63E+06
PC(O-38:1) or PC(P-38:0)	C46H92NO7P	801.6611	802.6689	802.6668	[M+H] <sup>+</sup>	-2.6	53.29	1.70E+07
PC(O-38:2) or PC(P-38:1)	C46H90NO7P	799.6455	800.6533	800.6498	[M+H] <sup>+</sup>	-4.4	47.79	9.82E+06
PC(O-38:3) or PC(P-38:2)	C46H88NO7P	797.6298	798.6376	798.6338	[M+H] <sup>+</sup>	-4.8	45.07	4.49E+06
PC(O-38:4) or PC(P-38:3)	C46H86NO7P	795.6142	796.6220	796.6184	[M+H] <sup>+</sup>	-4.5	42.65	1.85E+07
PC(O-38:5) or PC(P-38:4)	C46H84NO7P	793.5985	794.6063	794.6025	[M+H] <sup>+</sup>	-4.9	36.47	2.77E+07
PC(O-38:6) or PC(P-38:5)	C46H82NO7P	791.5829	792.5907	792.5870	[M+H] <sup>+</sup>	-4.7	33.88	1.32E+07
PC(O-40:0)	C46H94NO7P	803.6768	804.6846	804.6829	[M+H] <sup>+</sup>	-2.1	58.83	3.95E+06
PC(O-40:1) or PC(P-40:0)	C48H96NO7P	829.6924	830.7002	830.6968	[M+H] <sup>+</sup>	-4.1	55.06	9.05E+06
PC(O-40:2) or PC(P-40:1)	C48H94NO7P	827.6768	828.6846	828.6808	[M+H] <sup>+</sup>	-4.6	48.19	7.74E+06
PC(O-40:3) or PC(P-40:2)	C48H92NO7P	825.6611	826.6689	826.6657	[M+H] <sup>+</sup>	-3.9	49.18	2.40E+06
PC(O-40:4) or PC(P-40:3)	C48H90NO7P	823.6455	824.6533	824.6495	[M+H] <sup>+</sup>	-4.6	46.59	4.95E+06
PC(O-40:5) or PC(P-40:4)	C48H88NO7P	821.6298	822.6376	822.6336	[M+H] <sup>+</sup>	-5.0	43.12	1.25E+07
PC(O-40:6) or PC(P-40:5)	C48H86NO7P	819.6142	820.6220	820.6178	[M+H] <sup>+</sup>	-5.1	40.86	1.32E+07
PC(O-42:1) or PC(P-42:0)	C50H100NO7P	857.7237	858.7315	858.7288	[M+H] <sup>+</sup>	-3.2	59.26	8.37E+06
PC(O-42:2) or PC(P-42:1)	C50H98NO7P	855.7081	856.7159	856.7131	[M+H] <sup>+</sup>	-3.3	56.16	1.60E+07
PC(O-42:4)	C50H94NO7P	851.6768	852.6846	852.6815	[M+H] <sup>+</sup>	-3.6	49.68	3.48E+06
PC(O-42:6)	C50H90NO7P	847.6455	848.6533	848.6495	[M+H] <sup>+</sup>	-4.5	47.84	2.75E+06
PC(P-36:5)	C44H78NO7P	763.5516	764.5594	764.5563	[M+H] <sup>+</sup>	-4.0	33.28	3.07E+06
PC(P-38:6)	C46H80NO7P	789.5672	790.5750	790.5702	[M+H] <sup>+</sup>	-6.1	31.86	3.24E+06
PC(P-39:1)	C47H92NO7P	813.6611	814.6689	814.6690	[M+H] <sup>+</sup>	0.1	58.99	7.17E+05
PC(P-40:6)	C48H84NO7P	817.5985	818.6063	818.6031	[M+H] <sup>+</sup>	-4.0	35.53	9.38E+06
PC(P-42:2)	C50H96NO7P	853.6924	854.7002	854.6969	[M+H] <sup>+</sup>	-3.9	53.34	4.06E+06
PC(P-42:4)	C50H92NO7P	849.6611	850.6689	850.6654	[M+H] <sup>+</sup>	-4.2	44.61	3.19E+06
PC(P-42:6)	C50H88NO7P	845.6298	846.6376	846.6338	[M+H] <sup>+</sup>	-4.5	39.82	8.46E+05

PE(24:0)	C29H58NO8P	579.3900	580.3978	580.3953	[M+H]+	-4.3	19.18	3.80E+04
PE(26:0)	C31H62NO8P	607.4213	608.4291	608.4289	[M+H]+	-0.4	20.02	2.09E+04
PE(32:1)	C37H72NO8P	689.4995	690.5074	690.5053	[M+H]+	-2.9	34.29	9.72E+05
PE(34:1)	C39H76NO8P	717.5308	718.5387	718.5368	[M+H]+	-2.5	38.84	9.53E+06
PE(34:2)	C39H74NO8P	715.5152	716.5230	716.5213	[M+H]+	-2.4	35.03	8.81E+05
PE(35:0)	C40H80NO8P	733.5621	734.5700	734.5685	[M+H]+	-2.0	43.21	8.35E+05
PE(35:1)	C40H78NO8P	731.5465	732.5543	732.5526	[M+H]+	-2.4	37.14	8.87E+05
PE(35:2)	C40H76NO8P	729.5308	730.5387	730.5368	[M+H]+	-2.6	26.75	2.89E+05
PE(35:3)	C40H74NO8P	727.5152	728.5230	728.5210	[M+H]+	-2.8	26.11	1.85E+05
PE(36:0)	C41H82NO8P	747.5778	748.5856	748.5851	[M+H]+	-0.6	38.71	1.48E+06
PE(36:1)	C41H80NO8P	745.5621	746.5700	746.5693	[M+H]+	-0.8	35.11	1.58E+07
PE(36:2)	C41H78NO8P	743.5465	744.5543	744.5526	[M+H]+	-2.2	39.54	1.26E+07
PE(36:3)	C41H76NO8P	741.5308	742.5387	742.5371	[M+H]+	-2.1	28.19	2.17E+05
PE(37:1)	C42H82NO8P	759.5778	760.5856	760.5843	[M+H]+	-1.6	53.71	1.56E+06
PE(37:2)	C42H80NO8P	757.5621	758.5700	758.5687	[M+H]+	-1.6	25.94	4.17E+05
PE(38:4)	C43H78NO8P	767.5465	768.5543	768.5502	[M+H]+	-5.3	37.60	1.76E+06
PE(38:5)	C43H76NO8P	765.5308	766.5387	766.5367	[M+H]+	-2.6	35.29	5.01E+06
PE(39:2)	C44H84NO8P	785.5934	786.6012	786.5982	[M+H]+	-3.9	48.86	6.92E+05
PE(39:5)	C44H78NO8P	779.5465	780.5543	780.5507	[M+H]+	-4.6	24.42	3.34E+04
PE(40:1)	C45H88NO8P	801.6247	802.6325	802.6316	[M+H]+	-1.1	54.32	1.29E+06
PE(40:2)	C45H86NO8P	799.6091	800.6169	800.6152	[M+H]+	-2.1	49.88	1.15E+06
PE(40:4)	C45H82NO8P	795.5778	796.5856	796.5820	[M+H]+	-4.6	43.70	5.51E+05
PE(40:5)	C45H80NO8P	793.5621	794.5700	794.5678	[M+H]+	-2.7	31.40	1.26E+06
PE(40:6)	C45H78NO8P	791.5465	792.5543	792.5511	[M+H]+	-4.0	35.94	9.96E+05
PE(41:1)	C46H90NO8P	815.6404	816.6482	816.6466	[M+H]+	-1.9	55.47	2.36E+05
PE(41:4)	C46H84NO8P	809.5934	810.6012	810.5996	[M+H]+	-2.0	26.00	1.95E+05
PE(42:1)	C47H92NO8P	829.6560	830.6638	830.6625	[M+H]+	-1.6	56.07	3.71E+06
PE(42:2)	C47H90NO8P	827.6404	828.6482	828.6473	[M+H]+	-1.1	53.33	1.03E+06
PE(43:0)	C48H96NO8P	845.6873	846.6951	846.6930	[M+H]+	-2.6	59.63	5.61E+05
PE(44:4)	C49H90NO8P	851.6404	852.6482	852.6462	[M+H]+	-2.3	55.63	5.05E+05
PG(32:0)	C38H75O10P	722.5098	721.5019	721.5035	[M-H]-	2.2	27.31	1.63E+05
PG(32:1)	C38H73O10P	720.4941	719.4863	719.4880	[M-H]-	2.3	26.62	8.07E+04
PG(34:1)	C40H77O10P	748.5254	747.5176	747.5108	[M-H]-	-9.1	29.75	1.41E+05
PG(34:2)	C40H75O10P	746.5098	745.5019	745.5047	[M-H]-	3.7	24.64	8.99E+05



PG(34:3)	C40H73O10P	744.4941	743.4863	743.4890	[M-H]-	3.6	24.65	5.80E+04
PG(36:0)	C42H83O10P	778.5724	777.5645	777.5587	[M-H]-	-7.5	35.04	5.37E+05
PG(36:1)	C42H81O10P	776.5567	775.5489	775.5505	[M-H]-	2.1	31.85	5.24E+04
PG(36:2)	C42H79O10P	774.5411	773.5332	773.5339	[M-H]-	0.9	29.18	1.53E+05
PG(36:3)	C42H77O10P	772.5254	771.5176	771.5185	[M-H]-	1.1	27.07	5.33E+05
PG(36:4)	C42H75O10P	770.5098	769.5019	769.5037	[M-H]-	2.3	25.33	5.65E+05
PG(36:5)	C42H73O10P	768.4941	767.4863	767.4902	[M-H]-	5.1	24.54	4.38E+04
PG(36:6)	C42H71O10P	766.4785	765.4706	765.4731	[M-H]-	3.2	23.10	4.66E+05
PG(38:5)	C44H77O10P	796.5254	795.5176	795.5182	[M-H]-	0.7	26.40	5.57E+05
PG(38:6)	C44H75O10P	794.5098	793.5019	793.5038	[M-H]-	2.4	24.56	2.74E+05
PG(38:7)	C44H73O10P	792.4941	791.4863	791.4882	[M-H]-	2.4	22.65	2.81E+05
PG(40:5)	C46H81O10P	824.5567	823.5489	823.5411	[M-H]-	-9.4	28.40	1.88E+05
PG(40:6)	C46H79O10P	822.5411	821.5332	821.5350	[M-H]-	2.1	25.31	3.70E+05
PG(40:7)	C46H77O10P	820.5254	819.5176	819.5190	[M-H]-	1.7	25.01	2.01E+05
PG(40:8)	C46H75O10P	818.5098	817.5019	817.5050	[M-H]-	3.8	24.00	8.51E+04
PG(40:9)	C46H73O10P	816.4941	815.4863	815.4874	[M-H]-	1.3	22.83	9.59E+04
PG(42:8)	C48H79O10P	846.5411	845.5332	845.5372	[M-H]-	4.7	24.89	1.85E+05
PG(42:9)	C48H77O10P	844.5254	843.5176	843.5204	[M-H]-	3.4	24.47	2.50E+05
PG(44:12)	C50H75O10P	866.5098	865.5019	865.5030	[M-H]-	1.2	24.37	2.81E+04
PI(32:0)	C41H79O13P	810.5258	809.5180	809.5196	[M-H]-	2.0	27.14	5.02E+04
PI(32:1)	C41H77O13P	808.5102	807.5023	807.5041	[M-H]-	2.3	26.54	1.27E+06
PI(34:0)	C43H83O13P	838.5571	837.5493	837.5573	[M-H]-	9.6	27.58	1.80E+05
PI(34:1)	C43H81O13P	836.5415	835.5336	835.5339	[M-H]-	0.3	26.72	2.32E+06
PI(34:2)	C43H79O13P	834.5258	833.5180	833.5193	[M-H]-	1.5	26.82	2.40E+06
PI(34:3)	C43H77O13P	832.5102	831.5023	831.5041	[M-H]-	2.1	25.56	8.98E+04
PI(35:1)	C44H83O13P	850.5571	849.5493	849.5522	[M-H]-	3.5	27.76	2.67E+04
PI(35:2)	C44H81O13P	848.5415	847.5336	847.5345	[M-H]-	1.0	27.14	6.39E+04
PI(36:0)	C45H87O13P	866.5884	865.5806	865.5851	[M-H]-	5.2	29.05	4.89E+04
PI(36:1)	C45H85O13P	864.5728	863.5649	863.5661	[M-H]-	1.3	33.34	9.98E+05
PI(36:2)	C45H83O13P	862.5571	861.5493	861.5496	[M-H]-	0.3	28.14	2.62E+06
PI(36:3)	C45H81O13P	860.5415	859.5336	859.5337	[M-H]-	0.1	28.28	1.95E+06
PI(36:4)	C45H79O13P	858.5258	857.5180	857.5227	[M-H]-	5.6	24.60	2.27E+04
PI(36:5)	C45H77O13P	856.5102	855.5023	855.5042	[M-H]-	2.2	24.57	2.93E+05
PI(37:2)	C46H85O13P	876.5728	875.5649	875.5658	[M-H]-	1.0	31.06	1.07E+05

PI(37:3)	C46H83O13P	874.5571	873.5493	873.5522	[M-H]-	3.3	28.29	9.41E+04
PI(37:4)	C46H81O13P	872.5415	871.5336	871.5346	[M-H]-	1.1	27.89	3.52E+05
PI(38:0)	C47H91O13P	894.6197	893.6119	893.6144	[M-H]-	2.9	30.92	1.06E+05
PI(38:1)	C47H89O13P	892.6041	891.5962	891.5976	[M-H]-	1.5	32.38	7.11E+04
PI(38:2)	C47H87O13P	890.5884	889.5806	889.5814	[M-H]-	1.0	35.32	7.23E+05
PI(38:3)	C47H85O13P	888.5728	887.5649	887.5725	[M-H]-	8.5	29.55	2.31E+06
PI(38:4)	C47H83O13P	886.5571	885.5493	885.5525	[M-H]-	3.6	27.44	1.18E+07
PI(38:5)	C47H81O13P	884.5415	883.5336	883.5425	[M-H]-	10.0	24.85	5.80E+04
PI(38:6)	C47H79O13P	882.5258	881.5180	881.5184	[M-H]-	0.5	26.38	9.36E+05
PI(39:3)	C48H87O13P	902.5884	901.5806	901.5824	[M-H]-	2.1	30.34	5.48E+04
PI(39:4)	C48H85O13P	900.5728	899.5649	899.5670	[M-H]-	2.3	30.36	7.46E+04
PI(39:5)	C48H83O13P	898.5571	897.5493	897.5507	[M-H]-	1.6	27.67	8.27E+04
PI(40:2)	C49H91O13P	918.6197	917.6119	917.6121	[M-H]-	0.3	38.07	4.12E+04
PI(40:4)	C49H87O13P	914.5884	913.5806	913.5819	[M-H]-	1.5	30.57	9.82E+05
PI(40:5)	C49H85O13P	912.5728	911.5649	911.5665	[M-H]-	1.7	27.86	9.86E+05
PI(40:6)	C49H83O13P	910.5571	909.5493	909.5504	[M-H]-	1.2	28.68	7.23E+05
PI(40:7)	C49H81O13P	908.5415	907.5336	907.5338	[M-H]-	0.2	26.07	1.45E+05
PI(40:8)	C49H79O13P	906.5258	905.5180	905.5188	[M-H]-	0.9	25.15	5.38E+04
PS(27:0)	C33H64NO10P	665.4268	666.4346	666.4335	[M+H]+	-1.6	14.63	1.14E+05
PS(27:1)	C33H62NO10P	663.4111	664.4189	664.4183	[M+H]+	-0.9	18.27	2.15E+04
PS(29:0)	C35H68NO10P	693.4581	694.4659	694.4643	[M+H]+	-2.3	18.91	1.25E+05
PS(30:2)	C36H66NO10P	703.4424	704.4502	704.4489	[M+H]+	-2.0	18.15	2.05E+04
PS(31:1)	C37H70NO10P	719.4737	720.4815	720.4796	[M+H]+	-2.7	17.26	2.18E+05
PS(32:1)	C38H72NO10P	733.4894	734.4972	734.4954	[M+H]+	-2.4	28.00	8.50E+04
PS(33:0)	C39H76NO10P	749.5207	750.5285	750.5268	[M+H]+	-2.3	23.46	1.29E+04
PS(33:1)	C39H74NO10P	747.5050	748.5128	748.5128	[M+H]+	-0.1	22.36	1.91E+04
PS(34:1)	C40H76NO10P	761.5207	762.5285	762.5268	[M+H]+	-2.2	29.92	1.37E+06
PS(36:2)	C42H78NO10P	787.5363	788.5441	788.5423	[M+H]+	-2.4	30.44	1.92E+06
PS(36:3)	C42H76NO10P	785.5207	786.5285	786.5263	[M+H]+	-2.7	28.24	4.52E+05
PS(36:4)	C42H74NO10P	783.5050	784.5128	784.5085	[M+H]+	-5.5	25.68	5.47E+04
PS(37:1)	C43H82NO10P	803.5676	804.5754	804.5741	[M+H]+	-1.7	24.94	1.68E+04
PS(38:4)	C44H78NO10P	811.5363	812.5441	812.5417	[M+H]+	-3.0	31.15	2.08E+06
PS(38:5)	C44H76NO10P	809.5207	810.5285	810.5283	[M+H]+	-0.3	27.03	2.21E+05
PS(40:6)	C46H78NO10P	835.5363	836.5441	836.5421	[M+H]+	-2.4	30.52	2.11E+06

PS(42:9)	C48H76NO10P	857.5207	858.5285	858.5316	[M+H] <sup>+</sup>	3.6	22.60	3.66E+04
PS(44:10)	C50H78NO10P	883.5363	884.5441	884.5434	[M+H] <sup>+</sup>	-0.8	24.53	2.12E+05
PS(44:8)	C50H82NO10P	887.5676	888.5754	888.5750	[M+H] <sup>+</sup>	-0.5	25.35	1.09E+05
SM(d30:1)	C35H71N2O6P	646.5050	647.5128	647.5119	[M+H] <sup>+</sup>	-1.3	25.60	1.56E+05
SM(d32:1)	C37H75N2O6P	674.5363	675.5441	675.5420	[M+H] <sup>+</sup>	-3.0	28.49	8.58E+06
SM(d33:1)	C38H77N2O6P	688.5519	689.5597	689.5578	[M+H] <sup>+</sup>	-2.8	29.16	1.35E+06
SM(d34:1)	C39H79N2O6P	702.5675	703.5754	703.5731	[M+H] <sup>+</sup>	-3.2	33.00	6.57E+07
SM(d34:2)	C39H77N2O6P	700.5519	701.5597	701.5577	[M+H] <sup>+</sup>	-2.8	29.15	1.33E+07
SM(d36:2)	C41H81N2O6P	728.5832	729.5910	729.5897	[M+H] <sup>+</sup>	-1.8	33.11	6.27E+05
SM(d39:2)	C44H87N2O6P	770.6301	771.6380	771.6454	[M+H] <sup>+</sup>	9.6	21.58	1.07E+05
SM(d40:1)	C45H91N2O6P	786.6614	787.6693	787.6669	[M+H] <sup>+</sup>	-3.0	49.89	3.75E+06
SM(d42:0)	C47H97N2O6P	816.7084	817.7162	817.7157	[M+H] <sup>+</sup>	-0.6	56.49	1.15E+06
SM(d42:1)	C47H95N2O6P	814.6927	815.7006	815.6975	[M+H] <sup>+</sup>	-3.8	50.19	1.76E+07
SM(d42:2)	C47H93N2O6P	812.6771	813.6849	813.6823	[M+H] <sup>+</sup>	-3.2	49.32	2.84E+07
SM(d44:1)	C49H99N2O6P	842.7240	843.7319	843.7292	[M+H] <sup>+</sup>	-3.2	57.59	4.18E+05
SM(d44:2)	C49H97N2O6P	840.7084	841.7162	841.7122	[M+H] <sup>+</sup>	-4.8	53.12	6.37E+05
TG(46:0)	C49H94O6	778.7050	796.7394	796.7370	[M+NH4] <sup>+</sup>	-3.0	65.74	3.40E+06
TG(48:0)	C51H98O6	806.7363	824.7707	824.7685	[M+NH4] <sup>+</sup>	-2.6	67.25	5.32E+06
TG(48:1)	C51H96O6	804.7207	822.7550	822.7535	[M+NH4] <sup>+</sup>	-1.8	64.60	1.15E+07
TG(48:3)	C51H92O6	800.6894	818.7237	818.7215	[M+NH4] <sup>+</sup>	-2.7	61.98	1.74E+06
TG(49:1)	C52H98O6	818.7363	836.7707	836.7681	[M+NH4] <sup>+</sup>	-3.1	65.46	1.80E+06
TG(49:2)	C52H96O6	816.7207	834.7550	834.7533	[M+NH4] <sup>+</sup>	-2.1	64.52	1.41E+06
TG(50:0)	C53H102O6	834.7676	852.8020	852.8004	[M+NH4] <sup>+</sup>	-1.9	69.14	1.69E+06
TG(50:1)	C53H100O6	832.7520	850.7863	850.7857	[M+NH4] <sup>+</sup>	-0.8	65.95	4.43E+06
TG(50:2)	C53H98O6	830.7363	848.7707	848.7688	[M+NH4] <sup>+</sup>	-2.2	65.84	2.23E+06
TG(50:3)	C53H96O6	828.7207	846.7550	846.7518	[M+NH4] <sup>+</sup>	-3.8	63.05	5.15E+06
TG(50:4)	C53H94O6	826.7050	844.7394	844.7372	[M+NH4] <sup>+</sup>	-2.6	62.10	7.31E+05
TG(51:1)	C54H102O6	846.7676	864.8020	864.7989	[M+NH4] <sup>+</sup>	-3.5	67.11	2.71E+06
TG(51:2)	C54H100O6	844.7520	862.7863	862.7837	[M+NH4] <sup>+</sup>	-3.0	66.09	1.93E+06
TG(51:3)	C54H98O6	842.7363	860.7707	860.7677	[M+NH4] <sup>+</sup>	-3.5	64.17	1.43E+06
TG(52:0)	C55H106O6	862.7989	880.8333	880.8336	[M+NH4] <sup>+</sup>	0.4	70.52	1.56E+06
TG(52:1)	C55H104O6	860.7832	878.8176	878.8148	[M+NH4] <sup>+</sup>	-3.2	68.72	1.93E+06
TG(52:2)	C55H102O6	858.7676	876.8020	876.7995	[M+NH4] <sup>+</sup>	-2.8	67.26	2.31E+06
TG(52:4)	C55H98O6	854.7363	872.7707	872.7684	[M+NH4] <sup>+</sup>	-2.6	63.67	3.67E+06

TG(52:5)	C55H96O6	852.7207	870.7550	870.7524	[M+NH4]+	-3.0	62.95	2.34E+06
TG(52:6)	C55H94O6	850.7050	868.7394	868.7371	[M+NH4]+	-2.6	62.13	4.71E+05
TG(52:7)	C55H92O6	848.6894	866.7237	866.7218	[M+NH4]+	-2.3	60.33	2.36E+05
TG(53:1)	C56H106O6	874.7989	892.8333	892.8302	[M+NH4]+	-3.4	68.45	8.13E+05
TG(53:2)	C56H104O6	872.7832	890.8176	890.8143	[M+NH4]+	-3.8	67.00	4.11E+06
TG(53:3)	C56H102O6	870.7676	888.8020	888.7986	[M+NH4]+	-3.8	65.32	2.41E+06
TG(53:4)	C56H100O6	868.7520	886.7863	886.7837	[M+NH4]+	-3.0	64.61	7.25E+05
TG(54:0)	C57H110O6	890.8302	908.8646	908.8656	[M+NH4]+	1.2	71.97	2.68E+05
TG(54:2)	C57H106O6	886.7989	904.8333	904.8308	[M+NH4]+	-2.7	68.73	7.31E+05
TG(54:3)	C57H104O6	884.7832	902.8176	902.8133	[M+NH4]+	-4.8	65.79	5.88E+06
TG(54:4)	C57H102O6	882.7676	900.8020	900.7980	[M+NH4]+	-4.4	65.41	4.29E+06
TG(54:5)	C57H100O6	880.7520	898.7863	898.7829	[M+NH4]+	-3.8	64.65	4.59E+06
TG(54:6)	C57H98O6	878.7363	896.7707	896.7678	[M+NH4]+	-3.3	63.06	2.40E+06
TG(54:7)	C57H96O6	876.7207	894.7550	894.7517	[M+NH4]+	-3.7	62.40	2.12E+06
TG(54:8)	C57H94O6	874.7050	892.7394	892.7364	[M+NH4]+	-3.3	60.95	2.77E+05
TG(55:2)	C58H108O6	900.8145	918.8489	918.8459	[M+NH4]+	-3.3	68.02	4.57E+05
TG(55:3)	C58H106O6	898.7989	916.8333	916.8298	[M+NH4]+	-3.8	67.51	5.39E+05
TG(55:4)	C58H104O6	896.7832	914.8176	914.8153	[M+NH4]+	-2.6	65.58	2.21E+05
TG(55:7)	C58H98O6	890.7363	908.7707	908.7677	[M+NH4]+	-3.3	63.21	4.15E+05
TG(56:0)	C59H114O6	918.8615	936.8959	936.8969	[M+NH4]+	1.1	72.80	4.23E+05
TG(56:1)	C59H112O6	916.8458	934.8802	934.8785	[M+NH4]+	-1.9	70.75	1.73E+06
TG(56:4)	C59H106O6	910.7989	928.8333	928.8298	[M+NH4]+	-3.8	66.40	1.53E+06
TG(56:5)	C59H104O6	908.7832	926.8176	926.8135	[M+NH4]+	-4.5	66.26	2.53E+06
TG(56:6)	C59H102O6	906.7676	924.8020	924.7982	[M+NH4]+	-4.1	65.20	3.52E+06
TG(56:7)	C59H100O6	904.7520	922.7863	922.7830	[M+NH4]+	-3.6	64.12	7.38E+06
TG(56:8)	C59H98O6	902.7363	920.7707	920.7672	[M+NH4]+	-3.7	63.00	1.18E+06
TG(57:1)	C60H114O6	930.8615	948.8959	948.8967	[M+NH4]+	0.9	70.83	1.99E+05
TG(57:3)	C60H110O6	926.8302	944.8646	944.8614	[M+NH4]+	-3.3	68.04	2.92E+05
TG(57:4)	C60H108O6	924.8145	942.8489	942.8454	[M+NH4]+	-3.7	67.38	2.79E+05
TG(57:6)	C60H104O6	920.7832	938.8176	938.8155	[M+NH4]+	-2.3	65.24	3.09E+05
TG(57:7)	C60H102O6	918.7676	936.8020	936.7987	[M+NH4]+	-3.5	64.42	5.89E+05
TG(57:8)	C60H100O6	916.7520	934.7863	934.7840	[M+NH4]+	-2.5	63.42	2.64E+05
TG(58:0)	C61H118O6	946.8928	964.9272	964.9271	[M+NH4]+	-0.1	73.88	4.40E+05
TG(58:1)	C61H116O6	944.8771	962.9115	962.9082	[M+NH4]+	-3.4	71.81	3.27E+06

TG(58:10)	C <sub>61</sub> H <sub>98</sub> O <sub>6</sub>	926.7363	944.7707	944.7685	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.3	62.30	1.90E+05
TG(58:2)	C <sub>61</sub> H <sub>114</sub> O <sub>6</sub>	942.8615	960.8959	960.8945	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.4	70.59	1.05E+06
TG(58:3)	C <sub>61</sub> H <sub>112</sub> O <sub>6</sub>	940.8458	958.8802	958.8762	[M+NH <sub>4</sub> ] <sup>+</sup>	-4.1	68.95	1.87E+06
TG(58:4)	C <sub>61</sub> H <sub>110</sub> O <sub>6</sub>	938.8302	956.8646	956.8613	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.4	68.18	6.55E+05
TG(58:5)	C <sub>61</sub> H <sub>108</sub> O <sub>6</sub>	936.8145	954.8489	954.8442	[M+NH <sub>4</sub> ] <sup>+</sup>	-5.0	67.71	8.21E+05
TG(58:6)	C <sub>61</sub> H <sub>106</sub> O <sub>6</sub>	934.7989	952.8333	952.8286	[M+NH <sub>4</sub> ] <sup>+</sup>	-4.9	66.36	1.33E+06
TG(58:7)	C <sub>61</sub> H <sub>104</sub> O <sub>6</sub>	932.7832	950.8176	950.8109	[M+NH <sub>4</sub> ] <sup>+</sup>	-7.1	64.36	1.49E+06
TG(58:8)	C <sub>61</sub> H <sub>102</sub> O <sub>6</sub>	930.7676	948.8020	948.7995	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.6	63.93	3.53E+06
TG(58:9)	C <sub>61</sub> H <sub>100</sub> O <sub>6</sub>	928.7520	946.7863	946.7825	[M+NH <sub>4</sub> ] <sup>+</sup>	-4.0	63.37	9.86E+05
TG(59:3)	C <sub>62</sub> H <sub>114</sub> O <sub>6</sub>	954.8615	972.8959	972.8943	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.6	69.22	1.51E+05
TG(60:0)	C <sub>63</sub> H <sub>122</sub> O <sub>6</sub>	974.9241	992.9585	992.9594	[M+NH <sub>4</sub> ] <sup>+</sup>	0.9	74.99	5.32E+05
TG(60:1)	C <sub>63</sub> H <sub>120</sub> O <sub>6</sub>	972.9084	990.9428	990.9414	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.5	73.03	1.49E+06
TG(60:10)	C <sub>63</sub> H <sub>102</sub> O <sub>6</sub>	954.7676	972.8020	972.7990	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.0	63.59	3.74E+05
TG(60:11)	C <sub>63</sub> H <sub>100</sub> O <sub>6</sub>	952.7520	970.7863	970.7846	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.7	62.20	1.60E+05
TG(60:12)	C <sub>63</sub> H <sub>98</sub> O <sub>6</sub>	950.7363	968.7707	968.7687	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.1	62.03	2.56E+05
TG(60:2)	C <sub>63</sub> H <sub>118</sub> O <sub>6</sub>	970.8928	988.9272	988.9263	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.9	71.67	9.99E+05
TG(60:3)	C <sub>63</sub> H <sub>116</sub> O <sub>6</sub>	968.8771	986.9115	986.9094	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.1	69.93	2.78E+06
TG(60:4)	C <sub>63</sub> H <sub>114</sub> O <sub>6</sub>	966.8615	984.8959	984.8945	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.4	69.61	1.49E+05
TG(60:5)	C <sub>63</sub> H <sub>112</sub> O <sub>6</sub>	964.8458	982.8802	982.8769	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.4	68.84	1.27E+05
TG(60:6)	C <sub>63</sub> H <sub>110</sub> O <sub>6</sub>	962.8302	980.8646	980.8615	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.1	66.91	1.53E+05
TG(60:7)	C <sub>63</sub> H <sub>108</sub> O <sub>6</sub>	960.8145	978.8489	978.8453	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.7	67.28	2.40E+05
TG(60:8)	C <sub>63</sub> H <sub>106</sub> O <sub>6</sub>	958.7989	976.8333	976.8299	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.4	65.80	8.76E+05
TG(60:9)	C <sub>63</sub> H <sub>104</sub> O <sub>6</sub>	956.7832	974.8176	974.8148	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.9	64.62	3.92E+05
TG(61:3)	C <sub>64</sub> H <sub>118</sub> O <sub>6</sub>	982.8928	1000.9272	1000.9254	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.8	70.28	9.44E+04
TG(62:0)	C <sub>65</sub> H <sub>126</sub> O <sub>6</sub>	1002.9554	1020.9898	1020.9896	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.2	75.64	7.74E+04
TG(62:1)	C <sub>65</sub> H <sub>124</sub> O <sub>6</sub>	1000.9397	1018.9741	1018.9734	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.7	73.18	1.22E+05
TG(62:10)	C <sub>65</sub> H <sub>106</sub> O <sub>6</sub>	982.7989	1000.8333	1000.8329	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.3	64.32	2.39E+05
TG(62:11)	C <sub>65</sub> H <sub>104</sub> O <sub>6</sub>	980.7832	998.8176	998.8159	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.7	64.30	4.96E+05
TG(62:12)	C <sub>65</sub> H <sub>102</sub> O <sub>6</sub>	978.7676	996.8020	996.7989	[M+NH <sub>4</sub> ] <sup>+</sup>	-3.1	62.42	2.55E+05
TG(62:2)	C <sub>65</sub> H <sub>122</sub> O <sub>6</sub>	998.9241	1016.9585	1016.9591	[M+NH <sub>4</sub> ] <sup>+</sup>	0.6	72.99	2.61E+05
TG(62:3)	C <sub>65</sub> H <sub>120</sub> O <sub>6</sub>	996.9084	1014.9428	1014.9407	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.0	71.57	3.32E+05
TG(62:5)	C <sub>65</sub> H <sub>116</sub> O <sub>6</sub>	992.8771	1010.9115	1010.9105	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.0	69.78	9.37E+04
TG(62:6)	C <sub>65</sub> H <sub>114</sub> O <sub>6</sub>	990.8615	1008.8959	1008.8931	[M+NH <sub>4</sub> ] <sup>+</sup>	-2.7	68.58	1.21E+05
TG(64:1)	C <sub>67</sub> H <sub>128</sub> O <sub>6</sub>	1028.9710	1047.0054	1047.0046	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.8	74.24	1.52E+05

TG(64:2)	C <sub>67</sub> H <sub>126</sub> O <sub>6</sub>	1026.9554	1044.9898	1044.9882	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.5	72.85	8.33E+04
TG(64:3)	C <sub>67</sub> H <sub>124</sub> O <sub>6</sub>	1024.9397	1042.9741	1042.9724	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.6	71.76	1.66E+05
TG(64:4)	C <sub>67</sub> H <sub>122</sub> O <sub>6</sub>	1022.9241	1040.9585	1040.9576	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.8	71.04	1.01E+05
TG(64:5)	C <sub>67</sub> H <sub>120</sub> O <sub>6</sub>	1020.9084	1038.9428	1038.9420	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.8	71.03	1.16E+05
TG(64:6)	C <sub>67</sub> H <sub>118</sub> O <sub>6</sub>	1018.8928	1036.9272	1036.9258	[M+NH <sub>4</sub> ] <sup>+</sup>	-1.3	69.89	1.73E+05
TG(66:0)	C <sub>69</sub> H <sub>134</sub> O <sub>6</sub>	1059.0180	1077.0524	1077.0541	[M+NH <sub>4</sub> ] <sup>+</sup>	1.6	77.85	2.54E+04
TG(66:1)	C <sub>69</sub> H <sub>132</sub> O <sub>6</sub>	1057.0023	1075.0367	1075.0358	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.9	75.22	1.14E+05
TG(66:2)	C <sub>69</sub> H <sub>130</sub> O <sub>6</sub>	1054.9867	1073.0211	1073.0203	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.7	73.84	1.06E+05
TG(66:3)	C <sub>69</sub> H <sub>128</sub> O <sub>6</sub>	1052.9710	1071.0054	1071.0053	[M+NH <sub>4</sub> ] <sup>+</sup>	-0.1	72.75	1.04E+05