

SPME Probes: A Novel Chemical Biopsy Tool for Spatially Resolved Profiling of Human Brain Tissue in vivo

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Tables

HILIC-HRMS

Features sampled with use of SPME fibers and analysed by HILIC-HRMS

RPLC-HRMS

Features sampled with use of SPME fibers and analysed by RPLC-HRMS

Hallmarks

	ratio two times higher for feature sampled with use of C18 than HLB fibers
	ratio two times lower for feature sampled with use of C18 than HLB fibers
	peak area between C18 and HLB fibers statistically significantly different ($p < 0.05$)
+	standard deviation of peak area between C18 and HLB fibers statistically significantly different ($p < 0.05$) - The F test significant
-	standard deviation of peak area between C18 and HLB fibers is not statistically significantly different ($p < 0.05$) - The F test insignificant

Abbreviations

Cer	Ceramides
HexCer	Hexoyl ceramides
CerG2	Dihexoyl ceramides
CerP	Ceramide phosphates
ChE	Cholesterol esters
DG	Diglycerides
LPC	Lysophosphatidylcholines
LPE	Lysophosphatidyletanolamines
MG	Monoglycerides
PAF	Platelet-activating factors
PC	Phosphatidylcholines
PE	Phosphatidyletanolamines
PG	Phosphatidylglycerols
PS	Phosphatidylserines
SM	Sphingomyelins
So	Sphingosines
ST	Sulfatides
TG	Triglycerides

LipidIon	Observed m/z	Delta(ppm)	Retention time	average area- C18	CV - C18 [%]	average area - HLB	CV - HLB [%]	ratio of average area- C18:HLB	The F-test
So(d18:1)+H	300.2893	1.22	9.015	6.64E+06	60%	3.23E+06	41%	2.06	-
So(d18:0)+H	302.3050	1.20	10.476	3.51E+06	73%	1.25E+06	34%	2.81	+
So(d20:1)+H	328.3205	1.44	8.758	1.41E+06	32%	7.50E+05	40%	1.88	-
So(d20:0)+H	330.3361	1.66	10.203	3.52E+06	41%	1.51E+06	38%	2.33	-
MG(18:2p)+H	339.2889	1.52	1.554	8.77E+05	36%	6.94E+05	30%	1.26	-
Cer(d20:0)+H	344.3154	1.48	11.217	1.43E+06	58%	4.67E+05	30%	3.06	+
So(d22:0)+H	358.3680	0.01	10.01	3.65E+06	32%	1.69E+06	40%	2.15	-
Cer(d23:1+hO)+H	400.3417	1.17	7.985	2.52E+06	53%	1.48E+06	47%	1.70	-
CerP(d21:0+pO)+H	454.2922	1.36	10.628	1.38E+06	32%	6.43E+05	33%	2.15	-
CerP(d21:0+pO)+Na	476.2743	0.87	10.628	7.93E+05	46%	3.98E+05	47%	1.99	-
CerP(d23:1+hO)+H	480.3081	0.68	10.477	1.50E+06	31%	6.27E+05	24%	2.39	-
CerP(d23:0+pO)+H	482.3241	0.00	10.446	4.97E+06	33%	2.28E+06	34%	2.18	-
CerP(d24:1+hO)+H	494.3237	0.87	9.217	9.32E+05	33%	3.27E+05	33%	2.85	-
CerP(d24:0+pO)+H	496.3393	0.94	9.214	4.58E+07	35%	2.18E+07	49%	2.10	-
CerP(d23:1+hO)+Na	502.2904	0.01	10.454	1.65E+06	29%	6.65E+05	16%	2.48	+
CerP(d23:1+hO)+Na	502.2912	1.52	10.054	3.32E+06	32%	1.58E+06	29%	2.10	-
CerP(d23:0+pO)+Na	504.3061	0.01	10.476	2.83E+06	48%	1.43E+06	45%	1.97	-
CerP(d24:0+pO)+Na	518.3214	0.56	9.192	5.09E+06	41%	2.89E+06	53%	1.76	-
LPE(21:1)+H	522.3550	0.75	8.769	1.05E+07	36%	4.52E+06	35%	2.33	-
CerP(d26:1+hO)+H	522.3554	0.00	8.769	1.05E+07	36%	4.52E+06	35%	2.33	-
CerP(d26:0+pO)+H	524.3711	0.00	9.038	1.78E+07	36%	9.38E+06	49%	1.90	-
LPE(22:6)+H	526.2928	0.00	10.365	1.89E+06	26%	6.51E+05	37%	2.90	-
Cer(d34:1)+H	538.5189	0.92	1.352	3.80E+05	100%	1.04E+05	55%	3.64	+
CerP(d26:1+hO)+Na	544.3373	0.15	9.055	2.89E+06	23%	1.29E+06	43%	2.25	-
CerP(d26:1+hO)+Na	544.3374	0.01	8.715	7.19E+06	28%	2.88E+06	43%	2.50	-
CerP(d26:0+pO)+Na	546.3530	0.01	9.05	2.44E+06	39%	1.43E+06	56%	1.71	-
LPE(22:6)+Na	548.2746	0.35	10.385	1.09E+06	48%	3.61E+05	39%	3.02	-
Cer(d36:2)+H	564.5345	0.89	1.352	1.15E+06	50%	5.86E+05	68%	1.95	-
Cer(d36:1)+H	566.5502	0.79	1.352	4.16E+06	51%	2.47E+06	47%	1.68	-
LPC(22:6)+H	568.3394	0.68	8.697	3.60E+06	32%	1.42E+06	28%	2.52	-
Cer(d40:2)+H	620.5974	0.43	5.362	3.52E+06	35%	3.14E+06	25%	1.12	-

Cer(d41:2)+H	634.6129	0.51	5.286	1.38E+06	35%	1.25E+06	29%	1.10	-
Cer(d40:0)+Na	646.6109	0.01	5.277	1.82E+06	40%	1.74E+06	25%	1.05	-
Cer(d42:3)+H	646.6129	0.58	5.277	1.76E+06	46%	1.76E+06	23%	1.00	-
Cer(d42:2)+H	648.6283	0.92	5.227	2.83E+06	39%	2.57E+06	22%	1.10	-
DG(40:7p)+H	651.5340	1.00	7.985	1.83E+06	46%	6.76E+05	28%	2.71	+
LPC(29:1)+H	676.5272	0.50	7.76	7.04E+05	46%	4.93E+05	17%	1.43	-
CerP(d39:3+pO)+H	700.5273	0.36	7.702	9.15E+05	25%	7.35E+05	24%	1.24	-
CerP(d39:2)+NH4	703.5745	0.51	8.406	1.58E+07	46%	6.76E+06	44%	2.33	-
CerP(d38:1+hO+O)+H	706.5377	0.58	7.157	1.31E+07	35%	8.33E+06	42%	1.58	-
LPC(32:1)+H	718.5738	0.93	6.996	3.16E+06	31%	2.14E+06	30%	1.48	-
Cer(d45:7+hO)+Na	718.5745	0.00	6.996	3.16E+06	31%	2.14E+06	30%	1.48	-
LPE(35:1)+H	718.5745	0.00	6.996	3.16E+06	31%	2.14E+06	30%	1.48	-
PE(35:0e)+H	720.5893	1.16	7.086	5.08E+06	33%	3.14E+06	44%	1.62	-
Cer(d45:6+pO)+Na	720.5901	0.00	7.073	5.50E+06	39%	3.14E+06	44%	1.75	-
PC(31:1p)+Na	724.5247	0.60	7.701	3.62E+06	104%	1.83E+06	5%	1.98	+
CerP(d39:2+pO)+Na	724.5252	0.00	7.545	4.76E+06	59%	2.95E+06	34%	1.61	-
SM(d34:1)+Na	725.5562	0.81	8.423	1.38E+06	42%	7.71E+05	58%	1.79	-
HexCer(d36:2)+H	726.5870	1.19	5.53	5.69E+06	51%	3.92E+06	38%	1.45	-
PC(31:0e)+Na	728.5583	2.54	7.619	1.85E+07	24%	1.61E+07	15%	1.15	-
PC(33:2p)+H	728.5589	0.00	7.616	1.84E+07	30%	1.72E+07	23%	1.07	-
HexCer(d36:1)+H	728.6028	0.95	3.177	4.07E+06	44%	3.15E+06	37%	1.29	-
CerP(d41:3)+NH4	729.5905	0.00	8.339	2.18E+07	43%	1.07E+07	63%	2.04	-
PC(33:1p)+H	730.5745	0.00	7.621	1.81E+07	29%	1.62E+07	21%	1.11	-
SM(d36:1)+H	731.6054	1.00	8.327	3.15E+08	49%	1.68E+08	57%	1.87	-
CerP(d40:2+hO+O)+H	732.5532	0.73	7.073	3.59E+07	33%	2.48E+07	42%	1.45	-
HexCer(d33:2+2O)+NH4	733.5570	0.36	7.074	1.59E+07	32%	1.01E+07	25%	1.57	-
HexCer(d33:1+hO+O)+NH4	735.5729	0.01	7.084	2.09E+08	39%	1.44E+08	36%	1.45	-
PC(31:1)+Na	740.5216	2.01	7.666	6.39E+06	51%	2.50E+06	24%	2.55	+
HexCer(d36:1+O)+H	744.5975	1.25	5.53	7.56E+06	36%	5.97E+06	36%	1.27	-
HexCer(d34:3+2O)+NH4	745.5566	0.88	7.728	9.29E+06	42%	6.95E+06	27%	1.34	-
SM(d37:1)+H	745.6204	1.94	8.298	1.09E+06	55%	5.98E+05	60%	1.83	-
PE(36:4e)+Na	748.5271	2.56	7.509	1.81E+07	34%	1.33E+07	27%	1.36	-
CerP(d43:7+hO)+H	748.5276	0.00	7.509	1.85E+07	26%	1.40E+07	24%	1.32	-
HexCer(d35:0+pO+O)+H	748.5926	0.98	1.58	9.54E+05	43%	7.39E+05	35%	1.29	-

HexCer(d36:7+hO)+NH4	749.5303	1.02	7.511	8.13E+06	34%	6.00E+06	24%	1.36	-
CerP(d41:3+pO)+Na	750.5421	1.72	7.505	1.89E+07	26%	1.40E+07	14%	1.34	-
CerP(d43:6+pO)+H	750.5432	0.00	7.505	1.89E+07	26%	1.28E+07	28%	1.48	-
HexCer(d36:6+hO)+NH4	751.5454	1.68	7.504	8.83E+06	23%	6.95E+06	27%	1.27	-
SM(d36:2)+Na	751.5713	1.48	8.365	1.57E+06	39%	1.15E+06	55%	1.37	-
PC(33:1p)+Na	752.5578	1.84	7.502	3.29E+07	32%	2.12E+07	45%	1.55	-
CerP(d43:5+pO)+H	752.5589	0.00	7.471	3.10E+07	26%	1.99E+07	36%	1.56	-
HexCer(d36:5+pO)+NH4	753.5614	1.33	7.5	1.54E+07	24%	1.08E+07	27%	1.43	-
SM(d36:1)+Na	753.5870	1.49	8.343	2.52E+07	46%	1.87E+07	53%	1.35	-
HexCer(d38:2)+H	754.6183	1.10	5.46	3.73E+06	29%	3.02E+06	19%	1.24	-
PC(32:0)+Na	756.5510	0.47	7.095	1.03E+07	35%	1.04E+07	21%	0.99	-
HexCer(d36:3+O)+NH4	757.5925	1.53	7.554	3.06E+06	36%	2.93E+06	14%	1.04	-
PC(35:1p)+H	758.6040	2.37	7.581	5.14E+06	37%	4.84E+06	14%	1.06	-
CerP(d43:2)+NH4	759.6375	0.00	8.267	2.00E+07	47%	1.39E+07	49%	1.44	-
PAF(32:1)+H	760.5851	0.00	6.992	6.34E+08	31%	5.27E+08	42%	1.20	-
HexCer(d35:2+2O)+NH4	761.5886	0.01	6.993	3.04E+08	29%	2.46E+08	48%	1.24	-
PG(34:3)+NH4	762.5269	1.38	8.213	3.19E+06	34%	1.15E+06	32%	2.78	-
PS(34:1)+H	762.5280	0.00	8.213	3.25E+06	36%	1.34E+06	48%	2.42	-
PE(36:3)+Na	764.5225	3.14	7.665	2.17E+07	39%	1.38E+07	42%	1.57	-
PC(33:2)+Na	766.5357	0.00	7.639	1.28E+07	31%	1.06E+07	25%	1.21	-
PE(38:5)+H	766.5367	1.90	7.639	1.26E+07	32%	1.05E+07	27%	1.21	-
HexCer(d36:1+O)+Na	766.5791	1.58	5.588	2.59E+06	44%	2.31E+06	36%	1.12	-
PAF(31:1)+Na	768.5514	0.00	7.603	5.02E+07	29%	3.42E+07	47%	1.47	-
PC(35:4)+H	768.5514	3.13	7.602	5.56E+07	28%	3.51E+07	24%	1.58	-
HexCer(d38:1+O)+H	772.6290	0.86	5.448	5.84E+06	39%	4.86E+06	29%	1.20	-
HexCer(d36:3+2O)+NH4	773.5872	1.74	7.666	7.52E+05	33%	6.51E+05	19%	1.15	-
PE(40:7p)+H	774.5421	1.43	7.456	1.27E+07	32%	1.00E+07	29%	1.27	-
CerP(d43:5+pO)+Na	774.5432	3.11	7.45	1.17E+07	24%	1.01E+07	30%	1.16	-
HexCer(d37:1+hO+O)+H	774.6079	1.45	1.561	1.43E+06	45%	1.08E+06	30%	1.32	-
CerP(d43:4+pO)+Na	776.5577	1.53	7.434	5.30E+07	39%	3.79E+07	29%	1.40	-
CerP(d45:7+hO)+H	776.5589	0.00	7.432	5.27E+07	39%	3.59E+07	34%	1.47	-
PC(35:1p)+Na	780.5878	0.00	7.132	4.44E+06	22%	2.74E+06	36%	1.62	-
HexCer(d38:5+pO)+NH4	781.5926	1.38	7.465	9.14E+06	28%	5.92E+06	36%	1.54	-
SM(d38:1)+Na	781.6180	1.80	8.296	1.24E+06	41%	1.34E+06	50%	0.92	-

PAF(32:1)+Na	782.5670	0.00	6.865	9.66E+07	42%	6.72E+07	46%	1.44	-
HexCer(d40:2)+H	782.6497	0.91	5.361	2.32E+07	33%	1.98E+07	26%	1.17	-
PS(34:1)+Na	784.5090	1.10	8.222	1.36E+06	44%	4.81E+05	41%	2.83	-
HexCer(d40:1)+H	784.6649	1.56	3.002	5.20E+06	48%	4.13E+06	36%	1.26	-
CerP(d45:3)+NH4	785.6531	0.00	8.2	2.94E+06	31%	2.39E+06	74%	1.23	-
PE(38:6)+Na	786.5032	1.54	7.665	1.54E+06	46%	1.69E+06	30%	0.91	-
CerP(d42:0+pO+O)+Na	786.5983	0.00	6.903	4.65E+07	25%	3.48E+07	15%	1.34	-
CerP(d45:2)+NH4	787.6688	0.00	8.178	7.38E+06	23%	5.17E+06	52%	1.43	-
PG(36:4)+NH4	788.5428	1.09	8.137	1.30E+07	37%	5.24E+06	43%	2.48	-
PAF(34:1)+H	788.6146	2.22	6.902	1.76E+08	23%	1.54E+08	35%	1.14	-
PE(38:4)+Na	790.5357	0.00	7.58	8.26E+06	34%	6.84E+06	28%	1.21	-
PG(36:3)+NH4	790.5593	0.00	8.182	2.40E+07	25%	1.38E+07	41%	1.74	-
PC(35:3)+Na	792.5514	0.00	7.58	6.66E+07	38%	4.95E+07	38%	1.35	-
HexCer(d38:1+O)+Na	794.6106	1.28	5.484	1.35E+06	32%	1.23E+06	28%	1.10	-
HexCer(d39:0)+Na	794.6494	1.65	5.304	1.06E+06	22%	1.03E+06	35%	1.03	-
PC(35:1)+Na	796.5837	1.29	7.58	1.05E+07	31%	6.77E+06	33%	1.56	-
HexCer(d41:2)+H	796.6652	1.07	5.291	8.66E+06	30%	7.86E+06	17%	1.10	-
ST(d34:0+O)+H	798.5391	0.63	7.433	3.86E+06	31%	3.96E+06	31%	0.98	-
CerP(d45:7+hO)+Na	798.5408	0.00	7.432	3.76E+06	31%	4.05E+06	26%	0.93	-
HexCer(d40:2+pO)+H	798.6445	1.05	5.385	3.46E+06	38%	3.22E+06	32%	1.08	-
HexCer(d41:1)+H	798.6804	1.64	2.958	2.76E+06	26%	2.42E+06	39%	1.14	-
HexCer(d40:1+O)+H	800.6599	1.35	5.362	3.35E+07	34%	2.92E+07	20%	1.15	-
CerP(d46:2)+NH4	801.6844	0.00	8.16	2.69E+06	39%	1.72E+06	46%	1.57	-
PC(37:3p)+Na	804.5878	0.00	7.357	1.14E+06	30%	7.85E+05	37%	1.45	-
CerP(d47:7+hO)+H	804.5886	1.94	7.357	1.13E+06	30%	7.76E+05	38%	1.46	-
PC(36:3)+Na	806.5681	1.29	6.808	5.89E+07	40%	4.74E+07	31%	1.24	-
PC(37:1p)+Na	808.6187	0.41	7.437	8.01E+05	29%	5.25E+05	28%	1.53	-
HexCer(d40:0)+Na	808.6649	1.50	5.277	1.21E+07	45%	1.11E+07	21%	1.09	-
PS(36:2)+Na	810.5251	0.55	8.137	3.13E+06	30%	1.91E+06	44%	1.64	-
PC(36:1)+Na	810.5983	0.00	6.8	1.08E+08	29%	7.72E+07	50%	1.40	-
HexCer(d42:2)+H	810.6802	1.92	5.236	2.15E+07	41%	1.87E+07	19%	1.15	-
SM(d40:0)+Na	811.6664	0.00	8.142	2.07E+06	17%	1.20E+06	34%	1.72	-
CerP(d47:4)+NH4	811.6688	0.00	8.142	2.07E+06	17%	1.20E+06	34%	1.72	-
PS(36:1)+Na	812.5412	0.00	8.137	1.27E+07	35%	7.31E+06	33%	1.74	-

CerP(d47:3)+NH4	813.6844	0.00	8.151	2.97E+07	28%	2.23E+07	39%	1.33	-
ST(d34:0+2O)+H	814.5344	0.14	7.576	3.86E+06	36%	4.62E+06	20%	0.84	-
PE(40:6)+Na	814.5357	0.00	7.576	3.86E+06	36%	4.58E+06	19%	0.84	-
PE(41:2)+H	814.6320	0.00	6.901	6.57E+06	35%	5.53E+06	16%	1.19	-
HexCer(d41:1+O)+H	814.6756	1.25	5.286	1.32E+07	26%	1.17E+07	24%	1.13	-
PAF(36:1)+H	816.6477	0.00	6.865	8.47E+06	26%	7.06E+06	22%	1.20	-
PG(38:3)+NH4	818.5895	1.31	8.088	2.06E+06	42%	1.04E+06	22%	1.98	-
HexCer(d40:1+O)+Na	822.6420	1.14	5.416	5.01E+06	17%	4.88E+06	17%	1.03	-
HexCer(d43:2)+H	824.6961	1.62	2.895	1.17E+06	48%	1.04E+06	27%	1.13	-
HexCer(d42:2+pO)+H	826.6755	1.45	5.286	1.82E+07	31%	1.85E+07	12%	0.99	-
HexCer(d42:1+O)+H	828.6908	1.83	5.236	3.18E+07	37%	3.12E+07	21%	1.02	-
PC(38:4)+Na	832.5827	0.00	6.744	1.68E+07	42%	1.24E+07	42%	1.36	-
PC(40:7)+H	832.5851	0.00	6.744	1.68E+07	43%	1.24E+07	40%	1.36	-
PE(41:3)+Na	834.5986	0.33	6.742	3.96E+07	51%	3.13E+07	54%	1.27	-
SM(d42:2)+Na	835.6647	1.97	8.186	1.30E+06	12%	1.89E+06	23%	0.69	-
PS(38:3)+Na	836.5429	2.01	7.983	5.85E+07	33%	3.13E+07	64%	1.87	-
PG(40:8)+NH4	836.5436	0.00	7.985	6.96E+07	40%	3.45E+07	53%	2.02	-
HexCer(d41:1+O)+Na	836.6574	1.50	5.291	2.42E+06	42%	1.93E+06	19%	1.26	-
PG(40:7)+NH4	838.5593	0.00	6.996	1.10E+07	45%	6.67E+06	59%	1.66	-
PAF(36:1)+Na	838.6296	0.00	6.789	8.69E+06	38%	5.58E+06	41%	1.56	-
ST(d36:1+2O)+H	840.5515	1.59	7.447	1.37E+06	50%	1.18E+06	21%	1.16	-
PE(44:10)+H	840.5538	0.00	7.447	1.39E+06	51%	1.20E+06	23%	1.16	-
HexCer(d43:1+O)+H	842.7064	1.80	5.172	1.49E+06	29%	1.39E+06	23%	1.08	-
HexCer(d42:2+pO)+Na	848.6572	1.65	5.277	2.57E+06	21%	2.77E+06	19%	0.93	-
HexCer(d42:1+O)+Na	850.6725	2.04	5.236	4.45E+06	22%	4.56E+06	13%	0.98	-
PS(40:6)+Na	858.5243	1.51	7.984	1.42E+07	23%	9.16E+06	34%	1.55	-
PS(42:5)+H	866.5906	0.00	6.915	3.38E+06	43%	2.11E+06	55%	1.61	-
PG(42:7)+NH4	866.5915	1.03	6.914	3.33E+06	43%	2.11E+06	55%	1.58	-
PS(44:10)+H	884.5422	1.57	7.886	2.15E+06	42%	9.65E+05	49%	2.23	-
PS(42:5)+Na	888.5725	0.00	6.789	1.69E+06	54%	8.27E+05	66%	2.05	-
ST(d42:2)+H	890.6368	1.95	1.57	7.15E+05	30%	6.52E+05	22%	1.10	-

Lipidlon	Observed m/z	Delta (ppm)	Retention time	average area- C18	CV - C18 [%]	average area - CV - HLB HLB	CV - HLB [%]	ratio of average area- C18:HLB	The F-test
So(d16:1)+H	272.2580	1.66	12.706	1.82E+06	20%	1.02E+06	21%	1.79	-
So(d17:0+pO)+H	304.2841	1.56	7.501	4.63E+06	70%	4.90E+06	19%	0.94	-
So(d18:1)+Na	322.2713	0.96	4.878	3.74E+06	48%	1.65E+06	43%	2.27	-
So(d22:0)+Na	380.3494	1.25	6.671	2.74E+06	32%	1.33E+06	34%	2.05	-
So(d24:0)+H	386.3988	1.17	7.677	5.77E+06	45%	2.34E+06	41%	2.47	-
So(d24:0)+Na	408.3807	1.21	7.675	9.40E+06	34%	4.32E+06	37%	2.17	-
DG(20:0)+NH4	418.3527	0.00	6.474	6.31E+05	38%	6.34E+05	32%	1.00	-
So(d25:0)+Na	422.3965	0.92	8.183	5.04E+06	40%	2.06E+06	48%	2.45	-
DG(22:3e)+NH4	426.3573	1.21	4.823	1.81E+06	28%	1.09E+06	37%	1.66	-
Cer(d25:1+hO)+NH4	445.4000	0.01	12.089	3.06E+06	25%	1.89E+06	15%	1.62	-
Cer(d25:0+pO)+NH4	447.4169	2.72	12.562	7.80E+06	60%	9.69E+06	3%	0.80	+
DG(24:4)+Na	471.3078	0.67	6.208	2.73E+06	61%	1.67E+06	35%	1.63	-
Cer(d27:1+pO)+NH4	473.4325	2.64	12.688	2.05E+07	24%	1.40E+07	24%	1.47	-
Cer(d27:0+O)+NH4	475.4469	0.01	13.105	4.80E+06	19%	6.22E+06	4%	0.77	-
Cer(d30:4)+H	476.4096	0.45	8.112	2.70E+06	154%	1.70E+05	40%	15.85	+
HexCer(d16:0+pO)+NH4	483.3289	2.66	6.353	1.06E+07	60%	8.78E+06	45%	1.21	-
Cer(d28:1+hO)+NH4	487.4482	2.51	12.966	1.31E+07	36%	1.12E+07	23%	1.17	-
Cer(d29:1+hO)+NH4	501.4639	2.61	13.219	4.57E+07	19%	2.82E+07	25%	1.62	-
Cer(d29:0+pO)+NH4	503.4794	2.39	13.57	8.25E+06	19%	9.10E+06	33%	0.91	-
Cer(d28:0+pO+2O)+H	504.4255	0.67	8.796	2.83E+07	57%	1.81E+07	33%	1.56	-
HexCer(d19:0)+NH4	509.3811	2.78	8.766	3.35E+07	47%	2.08E+07	33%	1.61	-
Cer(d30:2+O)+NH4	513.4639	2.53	13.061	7.19E+06	19%	4.52E+06	23%	1.59	-
CerP(d24:0+pO)+Na	518.3217	0.01	4.828	7.37E+06	48%	3.06E+06	71%	2.41	-
Cer(d29:0+pO+2O)+H	518.4414	0.26	9.225	8.46E+07	40%	5.44E+07	44%	1.56	-
SoG1(d20:1+hO)+NH4	523.3966	2.42	9.256	1.82E+08	25%	1.21E+08	42%	1.51	-
Cer(d31:4+pO)+NH4	523.4481	2.23	12.527	3.87E+06	18%	2.34E+06	22%	1.65	-
DG(30:2e)+H; OAHFA(33:1)+H	523.4710	1.98	10.981	2.51E+06	49%	3.50E+06	33%	0.72	-
Cer(d31:2+hO)+NH4	527.4794	2.22	13.302	4.59E+07	20%	2.78E+07	22%	1.65	-
Cer(d31:1+hO+O)+H	528.4623	0.00	9.552	2.24E+06	45%	9.16E+05	27%	2.44	-
Cer(d31:1+pO)+NH4	529.4952	2.44	13.664	5.67E+07	10%	3.57E+07	24%	1.59	-

Cer(d31:0+O)+NH4	531.5108	2.36	14.007	6.68E+06	121%	8.26E+06	25%	0.81	-
DG(28:1)+Na	533.4177	0.01	9.539	4.37E+06	40%	2.07E+06	58%	2.11	-
Cer(d32:5+pO)+NH4	535.4484	2.82	12.398	6.65E+06	30%	3.81E+06	30%	1.74	-
Cer(d32:3+O)+NH4	539.4796	2.45	13.172	4.57E+06	21%	2.61E+06	22%	1.75	-
Cer(d32:2+O)+NH4	541.4952	2.34	13.51	2.86E+07	12%	1.60E+07	28%	1.79	-
Cer(d32:1+O)+NH4	543.5107	2.19	13.822	3.26E+07	7%	2.12E+07	19%	1.54	-
DG(29:0)+NH4	544.4936	0.00	10.506	3.95E+06	57%	5.88E+06	6%	0.67	+
Cer(d34:6)+NH4	545.4693	2.99	13.667	2.53E+06	20%	1.34E+06	12%	1.88	-
DG(29:0)+Na	549.4490	0.01	10.479	6.18E+06	80%	7.42E+06	51%	0.83	-
SoG1(d22:1+hO)+NH4	551.4266	0.01	10.121	1.38E+06	104%	8.17E+05	7%	1.69	+
Cer(d33:2+2O)+H	554.4789	1.73	9.857	1.92E+06	49%	9.42E+05	28%	2.04	-
Cer(d33:2+hO)+NH4	555.5107	2.01	13.746	1.20E+08	9%	6.73E+07	24%	1.78	-
Cer(d33:1+hO+O)+H	556.4936	0.00	10.416	9.82E+06	49%	4.43E+06	28%	2.22	-
Cer(d33:1+O)+NH4	557.5262	1.85	14.095	4.61E+07	9%	2.39E+07	30%	1.93	-
Cer(d36:2)+H	564.5347	0.66	10.385	1.02E+07	50%	5.16E+06	68%	1.97	-
PE(23:4e)+Na	566.3211	1.07	4.509	1.03E+06	39%	1.95E+05	56%	5.30	-
Cer(d34:3+pO)+NH4	567.5107	2.06	13.606	8.13E+06	7%	4.58E+06	26%	1.78	-
DG(31:2)+NH4	568.4926	1.65	10.322	2.26E+06	60%	9.93E+05	23%	2.27	+
Cer(d34:2+O)+NH4	569.5263	1.92	13.913	3.16E+07	7%	1.68E+07	23%	1.88	-
Cer(d36:7)+NH4	571.4842	1.49	13.744	4.60E+06	4%	3.00E+06	18%	1.53	-
Cer(d34:1+O)+NH4	571.5420	2.12	14.22	2.12E+07	8%	1.24E+07	11%	1.70	-
Cer(d34:0+2O)+H	572.5245	0.57	11.257	1.61E+07	42%	2.16E+07	9%	0.75	-
TG(31:0e)+NH4	572.5249	0.00	11.257	1.46E+07	46%	2.13E+07	7%	0.68	+
ChE(11:0)+NH4	572.5396	0.86	13.166	1.52E+07	23%	7.13E+06	27%	2.13	-
Cer(d34:0+O)+NH4	573.5574	1.62	14.526	2.15E+06	54%	3.31E+06	30%	0.65	-
Cer(d34:1+O)+Na	576.4958	0.68	9.705	2.56E+06	133%	5.60E+05	17%	4.57	+
TG(31:0e)+Na	577.4797	0.87	11.289	1.70E+07	50%	2.83E+07	11%	0.60	-
Cer(d35:5+pO)+NH4	577.4952	2.31	13.163	1.45E+07	23%	6.90E+06	23%	2.10	-
DG(34:2p)+H	577.5190	0.01	11.763	3.35E+06	27%	1.84E+06	23%	1.82	-
Cer(d35:4+pO)+NH4	579.5108	2.17	13.544	1.18E+07	18%	4.35E+06	27%	2.71	-
DG(33:1p)+NH4	582.5456	0.01	9.257	5.95E+05	50%	7.16E+05	44%	0.83	-
Cer(d35:2+hO)+NH4	583.5418	1.71	14.124	5.14E+07	12%	3.07E+07	22%	1.68	-
Cer(d35:1+hO+O)+H	584.5245	0.52	11.176	3.00E+07	41%	1.54E+07	31%	1.95	-
Cer(d35:1+O)+NH4	585.5575	1.77	14.463	1.92E+07	12%	1.16E+07	19%	1.66	-

Cer(d36:2)+Na	586.5165	0.85	10.414	1.75E+07	42%	1.02E+07	51%	1.71	-
Cer(d35:0+pO+O)+H	586.5405	0.00	11.625	3.02E+07	40%	3.17E+07	25%	0.95	-
Cer(d34:1+2O)+Na	592.4905	1.02	8.295	1.19E+06	115%	4.19E+05	12%	2.85	+
Cer(d36:4+pO)+NH4	593.5263	1.87	13.747	2.48E+06	9%	1.37E+06	30%	1.82	-
Cer(d38:1)+H	594.5813	1.15	11.62	3.76E+06	54%	2.25E+06	58%	1.67	-
Cer(d36:3+O)+NH4	595.5418	1.62	14.006	5.97E+06	6%	3.26E+06	25%	1.83	-
Cer(d36:2+2O)+H	596.5245	0.63	11.069	5.14E+06	44%	2.54E+06	25%	2.03	-
DG(33:2)+NH4	596.5249	0.00	11.069	4.67E+06	49%	2.54E+06	25%	1.84	-
DG(34:0)+H	597.5453	0.00	12.228	7.83E+05	54%	6.99E+05	27%	1.12	-
Cer(d36:2+O)+NH4	597.5577	2.04	14.287	1.28E+07	8%	7.44E+06	16%	1.72	-
Cer(d36:1+2O)+H	598.5401	0.74	11.476	1.43E+07	39%	7.39E+06	23%	1.93	-
DG(36:5p)+H	599.5028	1.06	8.316	9.69E+05	60%	5.43E+05	51%	1.78	-
Cer(d36:1+O)+NH4	599.5730	1.41	14.58	1.31E+07	13%	7.29E+06	20%	1.80	-
CerG2(d14:0+pO)+H	600.3241	2.59	10.028	1.61E+06	32%	1.36E+06	18%	1.18	-
ChE(13:0)+NH4	600.5709	0.79	13.634	4.90E+06	22%	2.52E+06	25%	1.95	-
DG(33:2)+Na	601.4799	0.53	11.087	4.35E+06	70%	2.43E+06	7%	1.79	+
Cer(d36:0+O)+NH4	601.5890	2.02	14.861	2.37E+06	28%	3.12E+06	28%	0.76	-
Cer(d37:6+hO)+NH4	603.5107	1.87	13.327	1.73E+06	19%	9.28E+05	28%	1.87	-
Cer(d37:5+pO)+NH4	605.5263	1.77	13.629	3.55E+06	9%	1.90E+06	20%	1.87	-
Cer(d37:4+pO)+NH4	607.5419	1.77	13.963	7.41E+06	7%	4.22E+06	23%	1.75	-
DG(36:2e)+H	607.5660	0.01	12.725	2.39E+06	60%	1.37E+06	65%	1.75	-
Cer(d37:3+pO)+NH4	609.5574	1.46	14.219	1.17E+07	14%	6.44E+06	18%	1.82	-
Cer(d37:2+hO+O)+H	610.5400	0.83	11.36	1.50E+07	36%	6.49E+06	36%	2.31	-
Cer(d37:2+pO)+NH4	611.5729	1.24	14.502	2.15E+07	8%	1.28E+07	18%	1.67	-
Cer(d37:1+hO+O)+H	612.5557	0.70	11.764	3.49E+07	13%	2.01E+07	26%	1.73	-
Cer(d35:3+hO+2O)+NH4	613.5138	2.03	6.301	1.60E+06	7%	4.33E+06	12%	0.37	+
Cer(d37:1+O)+NH4	613.5887	1.52	14.789	1.26E+07	8%	8.83E+06	22%	1.43	-
Cer(d37:0+pO+O)+H	614.5712	1.00	12.2	3.45E+07	43%	2.95E+07	18%	1.17	-
Cer(d38:6+pO)+NH4	617.5262	1.64	14.368	3.72E+06	26%	2.14E+06	22%	1.74	-
DG(34:0)+Na	619.5262	1.65	12.214	2.44E+07	44%	2.44E+07	25%	1.00	-
DG(35:2)+NH4	624.5556	0.82	11.718	3.49E+06	33%	1.80E+06	28%	1.94	-
Cer(d40:0)+H	624.6285	0.62	12.381	1.32E+06	70%	8.24E+05	32%	1.61	-
Cer(d38:2+O)+NH4	625.5886	1.33	14.641	6.61E+06	2%	3.76E+06	16%	1.76	+
Cer(d38:1+hO+O)+H	626.5721	0.43	12.089	6.17E+06	31%	3.73E+06	27%	1.65	-

Cer(d38:1+O)+NH4	627.6042	1.15	14.919	6.71E+06	18%	4.49E+06	20%	1.50	-
ChE(15:0)+NH4	628.6027	0.01	14.057	3.29E+06	21%	1.84E+06	27%	1.79	-
DG(35:2)+Na	629.5111	0.71	11.714	3.43E+06	41%	1.55E+06	23%	2.22	-
DG(35:1)+Na	631.5270	0.34	11.995	4.79E+06	32%	1.93E+06	70%	2.48	-
Cer(d39:6+hO)+NH4	631.5418	1.57	14.541	3.01E+06	19%	1.71E+06	26%	1.76	-
Cer(d39:4+pO)+NH4	635.5728	1.10	14.305	2.68E+06	4%	1.58E+06	16%	1.70	-
Cer(d39:2+pO)+NH4	639.6045	1.72	14.802	6.28E+06	12%	4.43E+06	16%	1.42	-
Cer(d39:1+hO+O)+H	640.5869	0.92	12.309	1.67E+07	8%	1.23E+07	36%	1.36	-
TG(36:1e)+NH4	640.5875	0.00	12.309	1.57E+07	8%	1.23E+07	36%	1.28	-
ChE(16:1)+NH4	640.6024	0.48	14.721	2.06E+07	26%	9.81E+06	23%	2.10	-
Cer(d39:1+O)+NH4	641.6204	2.07	15.078	4.06E+06	13%	2.65E+06	17%	1.53	-
DG(36:1)+Na	645.5429	0.01	12.314	1.64E+07	11%	1.16E+07	26%	1.41	-
Cer(d40:5+pO)+NH4	647.5731	1.53	14.99	1.64E+07	132%	2.52E+06	15%	6.50	+
Cer(d42:2)+H	648.6283	0.94	12.241	4.56E+06	50%	3.45E+06	38%	1.32	-
Cer(d42:1)+H	650.6440	0.82	12.707	4.34E+06	112%	9.95E+05	38%	4.37	+
Cer(d42:0)+H	652.6597	0.80	12.845	1.83E+06	96%	7.87E+05	37%	2.33	+
TG(36:1)+NH4	654.5668	0.20	12.288	2.56E+06	77%	3.02E+06	10%	0.85	+
DG(38:2p)+Na	655.5636	0.09	12.801	7.98E+05	56%	8.42E+05	41%	0.95	-
ChE(17:0)+NH4	656.6344	0.59	15.147	2.13E+06	61%	6.38E+05	31%	3.33	+
Cer(d41:1)+Na	658.6109	0.01	13.881	4.25E+05	39%	5.63E+06	37%	0.08	+
Cer(d43:4)+H	658.6133	0.00	13.913	4.69E+05	37%	5.15E+06	35%	0.09	+
PEt(31:5p)+Na	659.4062	2.30	12.187	1.57E+07	51%	1.13E+07	30%	1.38	-
TG(36:1)+Na	659.5209	1.91	12.264	1.23E+06	79%	2.33E+06	45%	0.53	-
Cer(d41:6+hO)+NH4	659.5732	1.65	14.875	4.41E+06	33%	2.04E+06	22%	2.16	-
DG(38:5)+NH4	660.5558	0.53	11.472	1.07E+06	18%	7.16E+05	28%	1.49	-
Cer(d39:1+hO+O)+Na	662.5714	2.95	11.95	1.14E+07	25%	7.71E+06	51%	1.47	-
TG(38:3p)+NH4	662.5718	0.00	11.95	1.12E+07	27%	7.75E+06	50%	1.45	-
DG(39:2p)+NH4	664.6232	0.95	11.526	2.37E+06	80%	1.32E+06	40%	1.80	-
HexCer(d29:0+pO)+NH4	665.5311	0.00	10.782	1.20E+06	77%	1.04E+06	20%	1.15	+
ChE(18:2)+NH4	666.6179	0.68	14.808	1.27E+07	47%	5.41E+06	26%	2.35	-
Cer(d41:2+pO)+NH4	667.6360	1.84	15.096	2.50E+06	5%	1.22E+06	28%	2.05	-
ChE(18:1)+NH4	668.6336	0.60	15.037	1.82E+07	48%	7.36E+06	28%	2.48	-
Cer(d42:0+O)+H	668.6551	0.01	12.403	2.16E+06	70%	1.21E+06	41%	1.79	-
DG(38:0)+NH4	670.6337	1.10	11.906	7.85E+05	59%	4.55E+05	44%	1.73	-

Cer(d41:0+pO+O)+H	670.6344	0.00	13.163	2.62E+06	35%	3.02E+06	15%	0.87	-
ChE(18:0)+NH4	670.6507	1.63	15.309	1.53E+06	57%	5.98E+05	24%	2.55	+
Cer(d42:7+hO)+NH4	671.5730	1.29	14.807	5.49E+06	55%	2.71E+06	24%	2.03	+
HexCer(d30:3+pO)+NH4	673.4984	1.96	11.615	9.08E+05	60%	1.05E+06	13%	0.87	-
Cer(d42:0)+Na	674.6413	1.33	12.845	1.74E+06	95%	7.97E+05	31%	2.18	+
DG(38:0)+Na	675.5889	1.29	13.163	2.93E+06	33%	3.75E+06	11%	0.78	-
Cer(d42:5+pO)+NH4	675.6042	1.17	15.304	2.47E+06	72%	8.13E+05	26%	3.04	+
Cer(d44:2)+H	676.6598	0.59	12.398	1.52E+06	65%	6.58E+05	66%	2.31	-
Cer(d44:1)+H	678.6754	0.72	13.141	2.71E+06	133%	5.76E+05	34%	4.70	+
TG(38:1)+NH4	682.5976	0.60	12.782	3.35E+06	82%	3.81E+06	21%	0.88	-
HexCer(d32:3+O)+H	684.5039	0.89	11.941	8.11E+05	27%	6.72E+05	37%	1.21	-
TG(39:0e)+NH4	684.6501	0.00	13.392	2.33E+06	36%	2.94E+06	12%	0.79	-
TG(38:1)+Na	687.5522	1.80	12.8	1.84E+06	82%	3.09E+06	6%	0.59	+
HexCer(d32:2)+NH4	687.5534	2.35	12.8	2.26E+06	71%	2.87E+06	16%	0.79	-
Cer(d43:6+pO)+NH4	687.6041	0.98	15.191	9.96E+05	24%	4.59E+05	32%	2.17	-
Cer(d42:1+O)+Na	688.6208	0.93	12.44	4.61E+06	142%	6.62E+05	35%	6.96	+
TG(39:0e)+Na	689.6045	1.35	13.379	2.62E+06	29%	3.39E+06	7%	0.77	-
Cer(d41:1+hO+O)+Na	690.5999	1.09	11.212	6.06E+05	62%	3.02E+05	31%	2.01	-
Cer(d41:1+hO+O)+Na	690.6007	0.01	6.546	2.00E+06	32%	9.49E+05	32%	2.11	-
Cer(d42:0+O)+Na	690.6360	1.55	12.403	1.54E+06	78%	8.27E+05	44%	1.86	-
Cer(d41:0+pO+O)+Na	692.6161	0.32	11.875	6.48E+05	52%	3.69E+05	39%	1.76	-
ChE(20:2)+NH4	694.6490	0.95	15.104	2.29E+06	30%	1.01E+06	21%	2.27	-
DG(41:1p)+NH4	694.6699	1.29	12.908	2.86E+06	147%	3.83E+05	39%	7.47	+
Cer(d43:2+pO)+NH4	695.6667	0.92	15.374	1.18E+06	13%	6.48E+05	20%	1.83	-
TG(39:1)+NH4	696.6137	0.01	12.966	1.43E+06	65%	1.59E+06	12%	0.90	+
ChE(20:1)+NH4	696.6654	0.11	15.348	2.05E+06	14%	1.01E+06	31%	2.03	-
DG(41:0p)+NH4	696.6855	1.37	12.846	1.91E+06	66%	1.05E+06	50%	1.81	-
Cer(d42:1+pO+2O)+H	698.6293	0.01	13.204	1.99E+06	69%	3.32E+06	17%	0.60	-
DG(40:0)+NH4	698.6650	1.00	12.438	1.12E+06	72%	4.91E+05	50%	2.27	-
Cer(d43:0+pO+O)+H	698.6657	0.00	13.575	3.65E+06	37%	4.48E+06	12%	0.81	-
Cer(d44:1)+Na	700.6574	0.59	13.163	3.56E+06	136%	5.85E+05	40%	6.08	+
HexCer(d32:3+O)+NH4	701.5291	2.73	12.223	1.46E+06	36%	1.30E+06	28%	1.13	-
TG(39:1)+Na	701.5691	0.00	12.943	1.04E+06	50%	2.44E+06	46%	0.43	-
TG(39:0)+Na	703.5847	0.00	13.21	9.00E+05	87%	2.20E+06	19%	0.41	-

DG(40:0)+Na	703.6202	1.30	13.588	3.62E+06	33%	4.77E+06	7%	0.76	-
Cer(d42:1+hO+O)+Na	704.6156	1.02	11.531	2.16E+06	89%	9.29E+05	43%	2.32	+
TG(40:2)+NH4	708.6137	0.01	12.891	1.52E+06	63%	1.36E+06	27%	1.12	-
Cer(d46:0)+H	708.7221	1.06	13.642	1.16E+06	41%	7.37E+05	45%	1.58	-
Cer(d43:2+pO+2O)+H	710.6293	0.01	13.164	4.48E+06	54%	4.31E+06	24%	1.04	-
TG(40:0)+NH4	712.6443	0.96	13.45	5.63E+06	77%	1.01E+07	12%	0.56	-
Cer(d43:1+pO+2O)+H	712.6450	0.01	13.45	6.46E+06	74%	1.01E+07	12%	0.64	-
DG(41:0)+NH4	712.6805	1.23	12.644	1.90E+06	83%	8.56E+05	50%	2.22	-
Cer(d44:0+pO+O)+H	712.6814	0.00	13.737	2.45E+06	33%	2.58E+06	18%	0.95	-
TG(40:2)+Na	713.5680	1.44	12.892	9.90E+05	63%	1.08E+06	19%	0.92	-
TG(40:1)+Na	715.5838	1.29	13.199	3.32E+06	57%	5.05E+06	23%	0.66	-
CerP(d40:2+pO)+H	716.5589	0.00	11.123	1.30E+06	26%	1.03E+06	37%	1.27	-
Cer(d44:1+O)+Na	716.6519	1.22	12.895	3.71E+06	144%	5.41E+05	43%	6.86	+
TG(40:0)+Na	717.5996	1.03	13.45	2.35E+06	71%	6.60E+06	15%	0.36	-
DG(41:0)+Na	717.6355	1.71	13.706	2.14E+06	31%	2.58E+06	6%	0.83	+
Cer(d43:1+hO+O)+Na	718.6314	0.77	11.835	1.51E+06	66%	5.91E+05	40%	2.55	-
Cer(d44:0+O)+Na	718.6675	1.25	12.849	1.73E+06	69%	1.02E+06	51%	1.69	-
HexCer(d32:2+2O)+NH4	719.5416	0.01	10.358	1.26E+07	47%	1.17E+07	63%	1.08	-
DG(43:2p)+NH4	720.6858	0.82	12.572	1.16E+06	72%	5.05E+05	40%	2.30	-
HexCer(d33:0+O)+NH4	721.5938	0.21	12.178	3.82E+06	33%	3.55E+06	41%	1.08	-
PC(31:1p)+Na	724.5252	0.00	10.783	5.26E+06	23%	4.27E+06	33%	1.23	-
CerP(d41:5+pO)+H	724.5276	0.00	10.315	1.23E+07	44%	9.53E+06	30%	1.29	-
TG(41:1)+NH4	724.6443	0.86	13.357	5.80E+06	61%	4.66E+06	22%	1.24	-
DG(42:1)+NH4	724.6808	0.70	13.651	2.44E+06	22%	1.31E+06	30%	1.86	-
PE(36:4e)+H	726.5432	0.00	10.412	4.70E+06	42%	2.86E+06	48%	1.65	-
TG(41:0)+NH4	726.6598	1.13	13.585	8.27E+06	59%	9.77E+06	2%	0.85	+
Cer(d45:0+pO+O)+H	726.6970	0.00	13.936	1.58E+06	40%	1.62E+06	19%	0.98	-
CerP(d38:1+hO+O)+Na	728.5201	0.00	9.193	1.48E+07	66%	6.34E+06	80%	2.34	-
CerP(d41:3)+NH4	729.5905	0.00	9.347	7.61E+06	43%	4.47E+06	62%	1.70	-
TG(41:1)+Na	729.5993	1.47	13.316	3.80E+06	54%	3.81E+06	6%	1.00	+
DG(42:1)+Na	729.6368	0.00	13.648	2.41E+06	10%	1.25E+06	36%	1.93	-
Cer(d46:0)+Na	730.7034	1.83	13.652	1.07E+06	54%	6.42E+05	36%	1.67	-
TG(41:0)+Na	731.6155	0.65	13.604	4.83E+06	48%	6.26E+06	6%	0.77	+
HexCer(d35:1)+NH4	731.6160	2.21	13.593	4.54E+06	49%	6.29E+06	5%	0.72	+

DG(42:0)+Na	731.6514	1.42	13.926	1.22E+06	33%	1.42E+06	10%	0.86	-
Cer(d44:0+pO+O)+Na	734.6623	1.34	12.644	1.61E+06	84%	7.96E+05	43%	2.02	-
Cer(d43:0+pO+2O)+Na	736.6426	0.00	13.293	4.54E+06	52%	3.83E+06	25%	1.19	-
TG(42:2)+NH4	736.6432	2.40	13.308	4.54E+06	52%	3.44E+06	22%	1.32	-
TG(42:1)+NH4	738.6596	1.33	13.554	1.63E+07	57%	1.29E+07	26%	1.26	-
HexCer(d32:0+pO+2O)+NH4	739.5685	0.93	10.425	9.75E+06	75%	6.86E+06	35%	1.42	-
TG(42:0)+NH4	740.6754	1.15	13.812	2.11E+07	70%	2.19E+07	21%	0.96	-
TG(43:0e)+NH4	740.7118	1.14	13.073	1.30E+06	46%	8.08E+05	48%	1.61	-
TG(42:2)+Na	741.5985	2.51	13.302	3.46E+06	54%	3.01E+06	26%	1.15	-
PAF(29:0)+Na	742.5349	1.15	9.606	1.35E+06	53%	8.51E+05	46%	1.58	-
HexCer(d36:2)+NH4	743.6144	0.01	13.557	9.44E+06	44%	1.03E+07	15%	0.92	-
TG(42:1)+Na	743.6151	1.22	13.565	9.19E+06	38%	9.55E+06	14%	0.96	-
HexCer(d37:0)+H	744.6337	1.49	12.407	6.85E+06	52%	4.65E+06	40%	1.47	-
HexCer(d34:3+2O)+NH4	745.5594	2.87	10.028	7.37E+06	66%	3.56E+06	72%	2.07	-
TG(42:0)+Na	745.6306	1.46	13.811	9.80E+06	64%	1.20E+07	14%	0.81	-
CerP(d41:5+pO)+Na	746.5095	0.00	10.314	2.02E+06	46%	1.67E+06	32%	1.21	-
CerP(d42:1+O)+H	746.6058	0.00	10.666	1.29E+07	52%	7.48E+06	64%	1.72	-
CerP(d42:0+O)+H	748.6208	0.85	11.214	4.85E+06	54%	2.86E+06	63%	1.69	-
HexCer(d34:1+2O)+NH4	749.5889	0.40	12.416	4.88E+06	53%	4.67E+06	42%	1.04	-
TG(43:2)+NH4	750.6596	1.29	13.483	8.44E+06	57%	6.23E+06	25%	1.35	-
SM(d36:2)+Na	751.5718	0.85	9.317	7.95E+06	57%	4.02E+06	71%	1.98	-
CerP(d41:2+pO)+Na	752.5565	0.00	11.438	9.68E+06	25%	8.66E+06	24%	1.12	-
TG(43:1)+NH4	752.6752	1.46	13.715	3.30E+07	57%	2.60E+07	27%	1.27	-
SM(d36:1)+Na	753.5870	1.52	9.93	6.87E+07	41%	4.33E+07	50%	1.59	-
TG(43:0)+NH4	754.6908	1.45	13.978	3.45E+07	61%	3.74E+07	14%	0.92	-
TG(43:2)+Na	755.6149	1.45	13.494	5.79E+06	49%	4.67E+06	24%	1.24	-
HexCer(d37:2)+NH4	757.6300	0.01	13.727	1.93E+07	45%	1.63E+07	19%	1.18	-
TG(43:1)+Na	757.6307	1.28	13.748	1.79E+07	50%	1.62E+07	20%	1.10	-
CerP(d43:2)+NH4	759.6367	1.01	10.719	1.08E+07	50%	8.53E+06	59%	1.26	-
TG(43:0)+Na	759.6461	1.57	13.968	1.59E+07	46%	1.82E+07	10%	0.87	-
HexCer(d37:0+O)+H	760.6288	1.15	11.261	2.09E+06	38%	1.63E+06	35%	1.28	-
PC(33:4)+Na	762.5032	1.59	9.885	2.49E+06	44%	1.60E+06	46%	1.56	-
TG(44:3)+NH4	762.6599	0.88	13.417	3.75E+06	58%	2.76E+06	24%	1.36	-
TG(44:2)+NH4	764.6752	1.40	13.683	2.72E+07	60%	2.04E+07	31%	1.33	-

PC(34:2e)+Na	766.5721	0.00	10.617	8.89E+05	23%	8.49E+05	32%	1.05	-
HexCer(d36:1+O)+Na	766.5804	0.01	9.929	6.69E+06	31%	7.53E+06	17%	0.89	-
TG(44:1)+NH4	766.6909	1.36	13.911	6.26E+07	68%	4.12E+07	37%	1.52	-
Cer(d48:1+hO+O)+H	766.7283	0.00	14.49	1.92E+06	29%	1.23E+06	31%	1.56	-
HexCer(d34:0+pO+2O)+NH4	767.5999	0.96	11.109	2.17E+07	61%	1.61E+07	37%	1.35	-
TG(44:3)+Na	767.6160	0.00	13.403	2.57E+06	52%	2.15E+06	19%	1.19	-
TG(44:0)+NH4	768.7066	1.29	14.134	5.95E+07	33%	7.62E+07	7%	0.78	-
TG(44:2)+Na	769.6307	1.31	13.652	1.50E+07	54%	1.39E+07	25%	1.08	-
HexCer(d38:3)+NH4	769.6317	2.10	13.656	1.69E+07	44%	1.26E+07	26%	1.35	-
PE(38:6p)+Na	770.5081	1.81	10.252	7.92E+06	47%	5.20E+06	43%	1.52	-
ST(d32:0+O)+H	770.5083	0.00	10.26	7.53E+06	47%	5.29E+06	40%	1.42	-
TG(44:1)+Na	771.6460	1.75	13.911	2.83E+07	55%	2.07E+07	36%	1.37	-
CerP(d44:2+pO)+H	772.6199	2.06	11.306	1.67E+06	31%	1.25E+06	45%	1.34	-
HexCer(d38:1+O)+H	772.6286	1.49	10.733	5.69E+06	40%	4.73E+06	38%	1.20	-
HexCer(d38:1)+NH4	773.6618	0.64	14.148	1.92E+07	37%	2.95E+07	4%	0.65	+
TG(44:0)+Na	773.6630	0.00	14.138	1.90E+07	33%	2.78E+07	18%	0.68	-
Cer(d48:0+O)+Na	774.7299	1.35	13.629	1.09E+06	39%	7.66E+05	51%	1.43	-
HexCer(d36:2+2O)+NH4	775.6042	0.01	11.669	2.13E+06	36%	2.83E+06	13%	0.75	-
TG(45:3)+NH4	776.6753	1.29	13.602	5.27E+06	47%	4.05E+06	21%	1.30	-
TG(45:2)+NH4	778.6901	2.33	13.86	3.66E+07	58%	2.79E+07	28%	1.31	-
CerP(d43:2+pO)+Na	780.5878	0.00	11.985	4.63E+06	22%	4.16E+06	39%	1.11	-
CerP(d45:5+pO)+H	780.5902	0.00	11.522	6.06E+07	41%	3.78E+07	52%	1.61	-
TG(45:1)+NH4	780.7065	1.32	14.095	1.06E+08	55%	8.43E+07	27%	1.25	-
Cer(d49:1+hO+O)+H	780.7440	0.00	14.661	2.33E+06	29%	1.41E+06	37%	1.66	-
SM(d38:1)+Na	781.6185	1.19	10.702	5.77E+06	50%	4.66E+06	58%	1.24	-
TG(45:3)+Na	781.6306	1.40	13.606	3.51E+06	47%	2.91E+06	19%	1.21	-
HexCer(d39:4)+NH4	781.6317	2.07	13.606	3.50E+06	48%	2.90E+06	20%	1.21	-
PE(37:1)+Na	782.5670	0.00	9.761	1.06E+08	50%	6.33E+07	57%	1.67	-
TG(45:0)+NH4	782.7224	1.08	14.287	7.11E+07	47%	9.24E+07	8%	0.77	+
TG(45:2)+Na	783.6455	2.25	13.862	2.16E+07	47%	1.86E+07	22%	1.16	-
CerP(d42:1+hO+O)+Na	784.5827	0.00	10.786	6.24E+07	57%	4.38E+07	48%	1.42	-
HexCer(d40:1)+H	784.6650	1.39	11.575	6.77E+06	36%	5.04E+06	37%	1.34	-
TG(45:1)+Na	785.6617	1.59	14.094	4.10E+07	35%	3.61E+07	27%	1.14	-
ST(d32:0+2O)+H	786.5032	0.00	9.857	7.10E+06	51%	4.77E+06	54%	1.49	-

PE(38:6)+Na	786.5033	1.39	9.857	7.07E+06	52%	4.76E+06	54%	1.48	-
CerP(d45:2+pO)+H	786.6371	0.00	12.492	2.16E+06	36%	1.80E+06	40%	1.20	-
HexCer(d39:1+O)+H	786.6445	1.12	11.069	1.59E+06	33%	1.35E+06	51%	1.18	-
HexCer(d40:0)+H	786.6805	1.61	11.776	9.97E+05	41%	1.26E+06	14%	0.79	-
HexCer(d39:1)+NH4	787.6775	0.61	14.287	2.17E+07	39%	3.12E+07	4%	0.70	+
TG(45:0)+Na	787.6786	0.00	14.287	2.07E+07	34%	3.05E+07	5%	0.68	+
PC(35:5)+Na	788.5189	1.49	10.054	3.51E+06	42%	2.53E+06	36%	1.39	-
TG(46:3)+NH4	790.6909	1.31	13.796	1.81E+07	63%	1.43E+07	27%	1.27	-
ST(d32:0+O)+Na	792.4901	0.19	10.302	1.93E+06	37%	1.63E+06	26%	1.18	-
TG(46:2)+NH4	792.7062	1.72	14.029	9.12E+07	58%	7.16E+07	32%	1.27	-
ST(d34:2+O)+H	794.5083	0.00	10.466	1.97E+06	27%	1.52E+06	35%	1.30	-
CerP(d44:2+pO)+Na	794.6025	1.11	11.32	5.72E+05	44%	4.04E+05	59%	1.41	-
HexCer(d38:1+O)+Na	794.6117	0.01	10.719	1.18E+07	37%	1.10E+07	31%	1.07	-
TG(46:1)+NH4	794.7220	1.50	14.238	1.69E+08	50%	1.40E+08	25%	1.21	-
Co(Q9)+H	795.6286	0.00	11.714	1.31E+07	60%	1.02E+07	37%	1.28	-
HexCer(d36:0+pO+2O)+NH4	795.6311	0.79	11.714	1.32E+07	58%	1.03E+07	37%	1.28	-
TG(46:3)+Na	795.6459	1.77	13.796	1.07E+07	46%	9.35E+06	25%	1.15	-
ST(d34:1+O)+H	796.5235	0.50	10.416	4.39E+06	48%	2.91E+06	54%	1.51	-
PE(40:7p)+Na	796.5252	0.00	10.416	4.38E+06	48%	2.90E+06	54%	1.51	-
TG(46:0)+NH4	796.7375	1.72	14.462	7.42E+07	60%	1.16E+08	15%	0.64	-
TG(46:2)+Na	797.6614	1.96	14.029	3.93E+07	42%	3.58E+07	21%	1.10	-
ST(d34:0+O)+H	798.5393	0.30	10.983	2.53E+07	47%	1.73E+07	47%	1.46	-
CerP(d45:7+hO)+Na	798.5408	0.00	10.984	2.53E+07	47%	1.68E+07	44%	1.51	-
HexCer(d40:2)+NH4	799.6775	0.61	14.238	6.43E+07	31%	5.22E+07	19%	1.23	-
TG(46:1)+Na	799.6786	0.00	14.246	5.61E+07	43%	5.03E+07	23%	1.12	-
CerP(d45:6+pO)+Na	800.5565	0.00	11.045	4.56E+06	94%	4.93E+06	39%	0.92	-
HexCer(d40:1+O)+H	800.6600	1.21	11.408	6.36E+07	33%	5.87E+07	32%	1.08	-
HexCer(d40:1)+NH4	801.6927	0.08	14.462	2.36E+07	37%	3.05E+07	30%	0.78	-
TG(46:0)+Na	801.6943	0.00	14.463	1.86E+07	44%	3.13E+07	29%	0.59	-
PC(36:4)+Na	804.5502	1.41	9.76	5.17E+07	53%	3.25E+07	56%	1.59	-
TG(47:3)+NH4	804.7064	1.46	13.978	2.07E+07	61%	1.61E+07	29%	1.29	-
TG(47:2)+NH4	806.7219	1.62	14.185	9.66E+07	49%	7.69E+07	25%	1.26	-
TG(48:2e)+NH4	806.7584	1.43	14.749	1.86E+06	31%	1.35E+06	25%	1.37	-
TG(49:7)+H	807.6498	0.04	11.562	5.17E+06	44%	4.59E+06	32%	1.13	-

TG(47:1)+NH4	808.7377	1.48	14.409	1.68E+08	50%	1.32E+08	21%	1.27	-
TG(48:1e)+NH4	808.7741	1.47	14.964	2.97E+06	38%	1.90E+06	27%	1.56	-
TG(47:3)+Na	809.6615	1.81	13.972	1.09E+07	42%	9.34E+06	26%	1.17	-
HexCer(d42:2)+H	810.6818	0.01	10.126	1.99E+06	41%	1.79E+06	27%	1.11	-
TG(47:0)+NH4	810.7533	1.53	14.592	7.84E+07	59%	1.06E+08	12%	0.74	-
HexCer(d41:3)+NH4	811.6772	0.25	14.188	4.19E+07	31%	3.23E+07	24%	1.30	-
TG(47:2)+Na	811.6786	0.00	14.185	3.68E+07	31%	3.37E+07	17%	1.09	-
ST(d34:1+2O)+H	812.5169	2.38	10.023	1.82E+06	56%	1.32E+06	47%	1.38	-
HexCer(d42:1)+H	812.6964	1.19	12.134	1.74E+07	37%	1.38E+07	45%	1.26	-
CerP(d47:3)+NH4	813.6844	0.00	11.472	2.13E+07	22%	1.89E+07	35%	1.13	-
HexCer(d41:2)+NH4	813.6928	0.18	14.399	4.98E+07	39%	4.29E+07	26%	1.16	-
TG(47:1)+Na	813.6943	0.00	14.395	4.27E+07	24%	4.26E+07	15%	1.00	-
ST(d34:0+2O)+H	814.5342	0.41	10.617	2.80E+07	52%	2.03E+07	41%	1.38	-
PC(37:6)+Na	814.5357	0.00	10.626	2.72E+07	51%	2.04E+07	41%	1.33	-
HexCer(d40:2+hO+O)+H	814.6403	0.01	14.034	1.32E+06	35%	1.23E+06	23%	1.07	-
HexCer(d41:1+O)+H	814.6757	1.24	11.714	3.39E+07	33%	2.96E+07	36%	1.14	-
SM(d42:1)+H	815.6999	0.23	11.99	4.50E+06	26%	3.21E+06	45%	1.40	-
HexCer(d41:1)+NH4	815.7087	0.45	14.594	2.28E+07	33%	2.99E+07	19%	0.76	-
TG(47:0)+Na	815.7099	0.00	14.594	1.81E+07	42%	3.05E+07	21%	0.59	-
PAF(36:1)+H	816.6465	1.51	11.562	1.51E+07	35%	1.20E+07	31%	1.26	-
HexCer(d40:1+hO+O)+H	816.6542	2.17	14.236	1.56E+06	15%	1.36E+06	8%	1.14	-
HexCer(d41:0+O)+H	816.6912	1.37	11.915	2.64E+06	30%	2.37E+06	33%	1.12	-
TG(48:4)+NH4	816.7064	1.40	13.912	5.37E+06	55%	3.98E+06	28%	1.35	-
ST(d34:1+O)+Na	818.5059	0.00	10.415	1.48E+06	44%	1.07E+06	40%	1.38	-
TG(48:3)+NH4	818.7221	1.33	14.123	4.94E+07	52%	3.88E+07	25%	1.28	-
ST(d34:0+O)+Na	820.5210	0.58	10.992	5.39E+06	35%	4.36E+06	26%	1.24	-
TG(48:2)+NH4	820.7378	1.35	14.355	1.48E+08	49%	1.18E+08	30%	1.26	-
TG(48:4)+Na	821.6630	0.00	13.915	3.16E+06	39%	2.61E+06	25%	1.21	-
TG(48:1)+NH4	822.7533	1.43	14.539	1.86E+08	38%	1.74E+08	28%	1.07	-
TG(49:1e)+NH4	822.7892	2.04	15.054	2.63E+06	35%	1.73E+06	30%	1.53	-
HexCer(d42:4)+NH4	823.6775	0.62	14.122	2.43E+07	31%	1.91E+07	18%	1.27	-
TG(48:3)+Na	823.6786	0.00	14.122	2.16E+07	36%	1.90E+07	19%	1.13	-
HexCer(d40:0+O)+Na	824.6566	2.45	11.624	7.53E+06	32%	8.29E+06	16%	0.91	-
HexCer(d42:3+pO)+H	824.6587	2.84	11.624	7.43E+06	33%	7.96E+06	22%	0.93	-

HexCer(d43:2)+H	824.6969	0.66	11.917	1.54E+06	35%	1.69E+06	32%	0.91	-
TG(48:0)+NH4	824.7688	1.68	14.753	7.35E+07	56%	1.27E+08	11%	0.58	-
HexCer(d42:3)+NH4	825.6931	0.50	14.355	5.47E+07	26%	4.58E+07	17%	1.20	-
TG(48:2)+Na	825.6943	0.00	14.355	4.85E+07	29%	4.30E+07	15%	1.13	-
HexCer(d42:2+pO)+H	826.6753	1.62	11.469	3.76E+07	39%	3.75E+07	31%	1.00	-
HexCer(d42:2)+NH4	827.7083	0.05	14.538	6.88E+07	29%	5.62E+07	19%	1.23	-
TG(48:1)+Na	827.7099	0.00	14.54	5.62E+07	42%	5.46E+07	19%	1.03	-
PC(38:6)+Na	828.5503	1.34	9.695	3.91E+07	60%	3.07E+07	50%	1.27	-
HexCer(d42:1+O)+H	828.6923	0.00	10.599	1.56E+06	38%	1.51E+06	37%	1.03	-
TG(48:0)+Na	829.7256	0.00	14.756	1.47E+07	56%	1.97E+07	12%	0.75	-
HexCer(d42:0+O)+H	830.7064	1.94	12.183	3.74E+06	42%	4.06E+06	22%	0.92	-
TG(49:3)+NH4	832.7375	1.69	14.286	3.28E+07	54%	2.65E+07	24%	1.24	-
PC(40:6)+H	834.6007	0.00	10.501	4.89E+07	53%	3.63E+07	45%	1.35	-
HexCer(d42:1)+Na	834.6778	1.84	12.149	1.58E+07	38%	1.53E+07	30%	1.03	-
TG(49:2)+NH4	834.7528	2.08	14.464	1.01E+08	50%	8.01E+07	25%	1.25	-
TG(50:2e)+NH4	834.7894	1.80	15.011	3.85E+06	28%	2.43E+06	27%	1.58	-
CerG2(d31:2)+NH4	835.5898	1.01	9.93	4.33E+06	36%	2.96E+06	43%	1.46	-
TG(49:1)+NH4	836.7688	1.68	14.677	1.09E+08	52%	9.28E+07	20%	1.17	-
TG(50:1e)+NH4	836.8050	1.85	15.194	3.88E+06	18%	2.42E+06	23%	1.60	-
HexCer(d43:4)+NH4	837.6931	0.50	14.284	1.38E+07	27%	1.11E+07	18%	1.24	-
TG(49:3)+Na	837.6943	0.00	14.285	1.17E+07	25%	1.11E+07	18%	1.06	-
PAF(36:1)+Na	838.6296	0.00	11.069	1.37E+07	47%	8.13E+06	53%	1.68	-
HexCer(d41:0+O)+Na	838.6724	2.16	11.906	1.79E+06	32%	1.96E+06	21%	0.91	-
TG(49:0)+NH4	838.7846	1.41	14.861	4.09E+07	59%	5.97E+07	17%	0.69	-
HexCer(d43:3)+NH4	839.7085	0.21	14.489	3.33E+07	12%	2.62E+07	31%	1.27	-
TG(49:2)+Na	839.7099	0.00	14.481	2.93E+07	41%	2.92E+07	18%	1.00	-
ST(d37:3)+Na	840.5266	0.00	10.273	2.38E+06	20%	2.20E+06	25%	1.08	-
TG(52:11)+H	841.6362	2.51	10.719	6.21E+06	54%	4.64E+06	51%	1.34	-
HexCer(d43:2)+NH4	841.7241	0.19	14.668	3.62E+07	28%	2.88E+07	19%	1.26	-
TG(49:1)+Na	841.7256	0.00	14.667	3.11E+07	30%	2.98E+07	16%	1.04	-
TG(50:1e)+Na	841.7620	0.00	15.195	2.45E+06	17%	1.64E+06	20%	1.49	-
PC(40:2)+H	842.6620	1.61	11.683	2.78E+06	35%	2.41E+06	35%	1.15	-
HexCer(d42:2+2O)+H	842.6697	2.22	14.352	1.21E+06	16%	1.18E+06	14%	1.03	-
HexCer(d43:1)+NH4	843.7399	0.34	14.875	1.44E+07	42%	1.90E+07	14%	0.76	-

TG(49:0)+Na	843.7412	0.00	14.874	1.24E+07	50%	1.72E+07	9%	0.72	-
ST(d38:5+pO)+H	844.5237	0.23	9.669	1.85E+06	66%	1.43E+06	38%	1.29	-
PAF(38:1)+H	844.6779	1.27	12.143	3.81E+06	37%	3.23E+06	32%	1.18	-
PC(40:1)+H	844.6790	0.00	12.143	3.80E+06	38%	3.31E+06	35%	1.15	-
HexCer(d42:1+hO+O)+H	844.6851	2.47	14.546	1.31E+06	18%	1.07E+06	22%	1.23	-
TG(50:4)+NH4	844.7375	1.67	14.238	1.42E+07	47%	1.05E+07	26%	1.36	-
HexCer(d42:3+pO)+Na	846.6430	0.01	11.069	1.70E+06	45%	2.13E+06	35%	0.80	-
HexCer(d44:6+pO)+H	846.6436	2.11	11.069	1.70E+06	44%	2.13E+06	36%	0.80	-
HexCer(d43:2)+Na	846.6782	1.38	11.918	2.64E+06	32%	2.66E+06	30%	0.99	-
TG(50:3)+NH4	846.7527	2.19	14.427	5.86E+07	56%	4.59E+07	26%	1.28	-
HexCer(d42:2+pO)+Na	848.6572	1.64	11.471	4.80E+07	36%	4.85E+07	25%	0.99	-
TG(50:2)+NH4	848.7687	1.68	14.638	1.24E+08	51%	1.01E+08	34%	1.22	-
TG(50:4)+Na	849.6926	1.91	14.242	5.58E+06	30%	4.52E+06	17%	1.23	-
HexCer(d42:1+O)+Na	850.6730	1.48	11.984	5.46E+07	35%	5.38E+07	29%	1.02	-
HexCer(d44:4+pO)+H	850.6767	0.00	11.992	5.36E+07	33%	5.29E+07	28%	1.01	-
TG(50:1)+NH4	850.7847	1.34	14.807	9.77E+07	44%	7.25E+07	27%	1.35	-
DG(51:1)+NH4	850.8222	0.00	15.296	2.46E+06	34%	1.53E+06	30%	1.61	-
TG(50:3)+Na	851.7099	0.00	14.418	1.89E+07	24%	1.83E+07	18%	1.03	-
TG(50:0)+NH4	852.8003	1.32	15.009	2.82E+07	43%	2.91E+07	15%	0.97	-
HexCer(d44:3)+NH4	853.7239	0.10	14.598	3.40E+07	24%	3.02E+07	18%	1.13	-
TG(50:2)+Na	853.7256	0.00	14.639	2.97E+07	36%	3.10E+07	20%	0.96	-
HexCer(d44:2)+NH4	855.7398	0.27	14.807	3.72E+07	15%	3.43E+07	29%	1.08	-
TG(50:1)+Na	855.7412	0.00	14.811	2.98E+07	61%	3.81E+07	16%	0.78	-
PC(40:6)+Na	856.5809	2.11	10.5	2.15E+07	50%	1.84E+07	48%	1.16	-
ST(d37:0+pO+O)+H	856.5814	0.00	10.497	2.31E+07	53%	1.84E+07	48%	1.25	-
HexCer(d43:2+2O)+H	856.6872	0.01	14.488	7.64E+05	14%	8.69E+05	30%	0.88	-
HexCer(d44:1+O)+H	856.7222	1.68	12.505	9.98E+05	52%	8.30E+05	35%	1.20	-
HexCer(d44:1)+NH4	857.7554	0.21	15.014	1.29E+07	53%	1.29E+07	11%	1.00	+
TG(50:0)+Na	857.7569	0.00	15.014	9.92E+06	48%	1.36E+07	10%	0.73	-
CerG2(d34:2)+H	860.6094	0.00	11.078	5.10E+06	53%	2.89E+06	63%	1.77	-
PC(40:4)+Na	860.6140	0.00	11.078	5.42E+06	55%	2.91E+06	59%	1.86	-
TG(51:3)+NH4	860.7685	1.92	14.538	2.69E+07	53%	1.99E+07	33%	1.35	-
HexCer(d43:2+pO)+Na	862.6728	1.70	11.765	1.88E+06	35%	2.00E+06	32%	0.94	-
TG(51:2)+NH4	862.7843	1.76	14.754	5.35E+07	54%	4.40E+07	33%	1.21	-

TG(52:2e)+NH4	862.8208	1.63	15.24	3.12E+06	26%	2.08E+06	30%	1.50	-
TG(51:1)+NH4	864.8004	1.25	14.919	3.77E+07	45%	2.97E+07	22%	1.27	-
TG(52:1e)+NH4	864.8361	1.97	15.432	2.44E+06	42%	1.59E+06	31%	1.53	-
HexCer(d45:4)+NH4	865.7242	0.28	14.56	9.24E+06	24%	7.47E+06	21%	1.24	-
TG(51:3)+Na	865.7256	0.00	14.541	7.94E+06	29%	7.30E+06	21%	1.09	-
CerG2(d32:1+2O)+H	866.5843	0.86	10.8	5.64E+06	52%	4.39E+06	40%	1.29	-
TG(51:0)+NH4	866.8156	1.70	15.11	1.33E+07	45%	1.51E+07	18%	0.88	-
HexCer(d45:3)+NH4	867.7396	0.03	14.749	1.77E+07	30%	1.56E+07	25%	1.14	-
TG(51:2)+Na	867.7412	0.00	14.748	1.50E+07	41%	1.54E+07	19%	0.98	-
HexCer(d45:2)+NH4	869.7555	0.32	14.937	1.71E+07	51%	1.52E+07	33%	1.13	-
TG(51:1)+Na	869.7569	0.00	14.919	1.47E+07	34%	1.49E+07	31%	0.99	-
PC(42:2)+H	870.6938	0.96	12.215	1.80E+06	39%	1.67E+06	25%	1.08	-
HexCer(d45:1)+NH4	871.7709	0.01	15.109	5.74E+06	53%	7.58E+06	14%	0.76	-
TG(51:0)+Na	871.7725	0.00	15.109	5.53E+06	42%	7.35E+06	12%	0.75	-
PS(41:6)+Na	872.5412	0.00	9.781	1.11E+06	51%	8.40E+05	48%	1.32	-
TG(52:3)+NH4	874.7841	1.94	14.701	3.72E+07	45%	3.21E+07	29%	1.16	-
TG(52:2)+NH4	876.8001	1.58	14.861	3.77E+07	69%	3.88E+07	41%	0.97	-
HexCer(d44:1+O)+Na	878.7039	1.93	12.508	1.22E+06	50%	1.22E+06	42%	1.00	-
TG(52:1)+NH4	878.8155	1.83	15.072	2.15E+07	78%	2.51E+07	19%	0.86	-
TG(52:3)+Na	879.7412	0.00	14.68	9.48E+06	20%	1.11E+07	24%	0.85	-
ST(d40:1+O)+H	880.6166	1.37	9.894	1.71E+06	39%	1.52E+06	38%	1.13	-
TG(52:2)+Na	881.7569	0.00	14.87	7.73E+06	109%	1.13E+07	35%	0.68	-
CerG2(d32:1+pO+2O)+H	882.5795	1.16	10.8	1.93E+06	61%	1.48E+06	49%	1.30	-
TG(52:1)+Na	883.7725	0.00	15.086	4.59E+06	139%	1.21E+07	13%	0.38	-
HexCer(d46:1+O)+H	884.7549	0.00	14.134	1.48E+06	39%	4.90E+06	58%	0.30	+
TG(53:4)+NH4	886.7842	1.82	14.679	5.14E+06	41%	4.15E+06	22%	1.24	-
TG(53:3)+NH4	888.7999	1.80	14.807	1.11E+07	35%	8.64E+06	37%	1.28	-
TG(53:2)+NH4	890.8157	1.62	15	1.61E+07	49%	1.18E+07	32%	1.37	-
TG(53:4)+Na	891.7412	0.00	14.652	1.77E+06	29%	1.53E+06	9%	1.16	-
CerG2(d34:2+2O)+H	892.5996	0.43	10.961	8.68E+06	30%	7.37E+06	31%	1.18	-
ST(d42:1)+H	892.6526	1.81	10.702	2.56E+06	46%	2.27E+06	34%	1.13	-
CerP(d53:8)+Na	892.6555	0.00	10.702	2.56E+06	46%	2.27E+06	34%	1.13	-
TG(53:1)+NH4	892.8311	1.89	15.19	1.54E+07	53%	1.33E+07	20%	1.16	-
TG(53:3)+Na	893.7569	0.00	14.811	4.30E+06	25%	3.60E+06	18%	1.19	-

TG(53:0)+NH4	894.8466	2.06	15.358	1.10E+07	51%	1.40E+07	10%	0.79	-
HexCer(d47:3)+NH4	895.7711	0.25	15.009	7.28E+06	43%	6.23E+06	24%	1.17	-
TG(53:2)+Na	895.7725	0.00	14.996	6.90E+06	45%	6.44E+06	19%	1.07	-
HexCer(d47:2)+NH4	897.7867	0.22	15.197	9.03E+06	40%	7.53E+06	22%	1.20	-
TG(53:1)+Na	897.7882	0.00	15.199	8.87E+06	52%	7.69E+06	13%	1.15	+
HexCer(d47:1)+NH4	899.8019	0.37	15.353	5.70E+06	37%	6.73E+06	15%	0.85	-
TG(53:0)+Na	899.8022	1.80	15.357	5.94E+06	50%	6.59E+06	17%	0.90	-
PC(44:12)+Na	900.5500	1.49	9.257	2.14E+06	76%	1.36E+06	55%	1.57	-
TG(55:3)+NH4	916.8310	1.93	15.037	4.08E+06	43%	2.93E+06	25%	1.39	-
TG(55:2)+NH4	918.8468	1.79	15.251	9.23E+06	51%	7.17E+06	30%	1.29	-
TG(55:1)+NH4	920.8624	1.85	15.442	1.74E+07	55%	1.50E+07	26%	1.15	-
TG(55:3)+Na	921.7882	0.00	15.101	1.95E+06	33%	1.63E+06	16%	1.20	-
TG(55:2)+Na	923.8022	1.76	15.238	4.88E+06	36%	4.14E+06	25%	1.18	-
HexCer(d49:3)+NH4	923.8024	0.22	15.239	4.88E+06	37%	3.94E+06	17%	1.24	-
HexCer(d49:2)+NH4	925.8177	0.18	15.434	1.04E+07	41%	8.86E+06	23%	1.17	-
TG(55:1)+Na	925.8195	0.00	15.44	1.04E+07	41%	8.74E+06	23%	1.19	-
HexCer(d50:0)+H	926.8383	0.00	14.368	1.91E+06	84%	1.76E+06	41%	1.09	-
TG(56:4)+NH4	928.8312	1.73	15.014	3.41E+06	40%	2.21E+06	29%	1.54	-
TG(56:3)+NH4	930.8468	1.78	15.191	4.35E+06	66%	3.37E+06	18%	1.29	+
TG(56:2)+NH4	932.8622	1.95	15.397	1.21E+07	41%	9.06E+06	28%	1.33	-
HexCer(d50:4)+NH4	935.8022	0.00	15.192	2.64E+06	35%	2.18E+06	29%	1.21	-
TG(56:3)+Na	935.8038	0.00	15.189	2.53E+06	40%	2.01E+06	46%	1.25	-
TG(56:2)+Na	937.8195	0.00	15.386	6.98E+06	33%	6.05E+06	24%	1.15	-
HexCer(d52:0)+H	954.8696	0.00	14.663	2.56E+06	41%	1.36E+06	59%	1.89	-
CerG2(d42:2)+H	972.7332	1.38	11.421	8.22E+05	172%	1.98E+03	173%	415.28	+