

Peak Name	HMDB ID
(2E)-Dodecenoyl-CoA	HMDB03712
(2E)-Octenoyl-CoA	HMDB03949
(S)-3-Hydroxydodecanoyl-CoA	HMDB03936
1. 4-Pregnene-17alpha,21-diol-3,20-dione	HMDB00015
13-HODE	HMDB61708
14,15-DiHETE	HMDB10204
18-Hydroxycorticosterone	HMDB00319
1-Monopalmitin	HMDB11533
2,6 dimethylheptanoyl carnitine	HMDB06320
27-hydroxy-cholesterol(d6)	HMDB02103
2-Hydroxybutric acid	HMDB00008
3(4-HYDROXYPHENYL)LACTATE	HMDB00755
3'-AMP	HMDB03540
3-Hydroxycapric acid	HMDB02203
3-Hydroxy-cis-5-tetradecenoylcarnitine	HMDB13330
3-Hydroxymethylglutaric acid	HMDB00355
3-Methylglutaryl carnitine	HMDB00552
3-Methylhistidine	HMDB00479
3-Oxododecanoyl-CoA	HMDB03937
4alpha-formyl-4beta-methyl-5alpha-cholesta-8,24-dien-3beta-ol	HMDB12167
4-HYDROXYBENZALDEHYDE	HMDB11718
4-Hydroxyproline	HMDB00725
4-Phosphopantothenoylcysteine	HMDB01117
4-Trimethylammoniobutanoic acid	HMDB01161
5,6-DHET	HMDB02343
5-Aminopentanoate	HMDB03355
5-Hydroxy-L-tryptophan	HMDB00472
5-KETE	HMDB10217
6,8-Dihydroxypurine	HMDB01182
9,12-Hexadecadienoylcarnitine	HMDB13334
9E,11E-Octadecadienoic acid	HMDB05047
9-HETE	HMDB10222
9-HODE	HMDB10223
Acrylyl-CoA	HMDB02307
Adenosine diphosphate ribose	HMDB01178
ADP	HMDB00061
ADP	HMDB01341
Allantoin	HMDB00462
Allodeoxycholic acid	HMDB00478
Alpha-Linolenic acid	HMDB01388
Amino adipic acid	HMDB00510
Arachidonic acid	HMDB01043
Arginine	HMDB00517
Asymmetric dimethylarginine (ADMA)	HMDB01539
Biliverdin	HMDB01008
Biotin	HMDB00030
CE(12:0)	HMDB02262

Cer(d16:1(4E)/24:0(2OH))	NA
Cer(d18:0/23:0)	HMDB11767
Cervonyl carnitine	HMDB06510
Chenodeoxycholic acid	HMDB00518
Cholesterol (-H2O)	HMDB00067
Citric acid	HMDB00094
Citrulline	HMDB00904
Creatine	HMDB00064
Creatinine	HMDB00562
Cytidine	HMDB00089
dCDP	HMDB01245
Decanoyl-CoA (n-C10:0CoA)	HMDB06404
Dehydroascorbic acid	HMDB01264
Dehydroepiandrosterone	HMDB00077
Deoxycholic acid	HMDB00626
Deoxyuridine	HMDB00012
Desmosterol	HMDB02719
D-Fructose	HMDB00660
DG(42:0)	HMDB56063
DG(42:6)	HMDB07636
Dodecanoic acid	HMDB00638
Dodecanoylcarnitine	HMDB02250
Eicosapentaenoic acid	HMDB01999
Eicosenoic acid	HMDB02231
Ethyl-3-Ureidopropionate	HMDB00026
FAD	HMDB01248
Farnesol	HMDB04305
Fumaric acid	HMDB00134
Gentisic acid	HMDB00152
GlcCer(d18:0/14:0)	NA
GlcCer(d18:0/18:0)	HMDB04972
Gluconic acid	HMDB00625
Gluconolactone	HMDB00150
Glucosamine	HMDB01514
Glucose 1-phosphate	HMDB01586
Glucosylceramide (d18:1/16:0)	HMDB04971
Glucosylceramide (d18:1/20:0)	HMDB04973
Glucuronic acid	HMDB00127
Glutamate	HMDB00148
Glutamine	HMDB00641
Glutamine	HMDB03423
Glyceric acid	HMDB00139
Glycocholic acid	HMDB00138
Hexadecanedioic acid mono-L-carnitine ester	HMDB00712
Hippuric acid	HMDB00714
Histidine	HMDB00177
Homoserine	HMDB00719
Hydroxydodecanoic acid	HMDB02059

Indoleacetic acid	HMDB00197
Indolepyruvate	HMDB60484
Indoxyl sulfate	HMDB00682
Inosine diphosphate	HMDB03335
Isobutyryl-L-carnitine	HMDB00736
Isoleucine	HMDB00172
Isopentenyl pyrophosphate	HMDB01347
Kojibiose	HMDB11742
Kynurenine	HMDB00684
L-Carnitine	HMDB00062
Leucine	HMDB00687
Leukotriene D4	HMDB03080
Lithocholyltaurine	HMDB00722
LPA(18:0)	HMDB07850
LPA(18:2)	HMDB07852
LPC(16:0)	HMDB10382
LPC(18:0)	HMDB13122
LPC(18:1)	HMDB02815
LPC(18:3)	HMDB10387
LPC(24:1)	HMDB10406
LPE(20:0)	HMDB12108
LPE(22:0)	HMDB11490
LPE(22:6)	HMDB11496
Lysine	HMDB00182
Malic acid	HMDB00744
Malonyl-CoA	HMDB01175
Malyl-CoA	HMDB01021
Methionine	HMDB00696
Methylglutaric acid	HMDB00752
MG(14:0/0:0/0:0)	HMDB11561
MG(18:1(9Z)/0:0/0:0)	HMDB11567
Myristic acid	HMDB00806
N-Acetylaspartate	HMDB00812
N-Acetylglutamine	HMDB06029
N-Acetylneuraminic acid	HMDB00230
N-Acetylphenylalanine	HMDB00512
N-Acetylserotonin	HMDB01238
N-Acetyltryptophan	HMDB13713
N-Methyl-L-glutamate	HMDB61715
Nonanedioic acid	HMDB00784
Nonanoyl-CoA	HMDB13028
Norvaline	HMDB13716
Oleic acid	HMDB02080
Ornithine	HMDB00214
Ortho-Hydroxyphenylacetic acid	HMDB00669
Oxalosuccinic acid	HMDB03974
Oxidized Glutathione	HMDB03337
Oxoadipic acid	HMDB00225

Oxoglutaric acid	HMDB00208
PA 30:0	HMDB00674
PA(36:2)	HMDB07862
Palmitate	HMDB00220
Palmitic amide	HMDB12273
Palmitoleic acid	HMDB03229
Palmitoylcarnitine	HMDB00222
Pantothenic acid	HMDB00210
PC(30:0)	HMDB11203
PC(32:0)	HMDB07994
PC(32:1)	HMDB11302
PC(34:0)	HMDB07970
PC(34:4)	HMDB07883
PC(36:5)	HMDB11280
PC(38:8)	HMDB08502
PC(40:6)	HMDB08377
PC(40:9)	HMDB08509
PE(36:0)	HMDB08841
PE(36:0)	HMDB11373
PE(36:1)	HMDB09018
PE(36:3)	HMDB09548
PE(36:5)	HMDB09191
PE(38:2)	HMDB09288
PE(38:4)	HMDB09380
PE(40:10)	HMDB09467
PE(40:5))	HMDB11457
PE(40:6)	HMDB09396
PE(42:10)	HMDB09473
PE(42:7)	HMDB09595
PG(34:1)	HMDB10630
PG(36:2)	HMDB13418
PG(36:3)	HMDB10620
PG(38:3)	HMDB10608
PG(38:4)	HMDB10638
PGP(38:7)	HMDB13501
Phenylalanine	HMDB00159
Phosphocreatine	HMDB01511
Phytonadione	HMDB15157
PI(38:2)	HMDB09829
PI(38:4)	HMDB09830
PI(38:6)	HMDB09902
PI(40:6)	HMDB09892
Pipecolic Acid	HMDB00070
Progesterone	HMDB01830
Proline	HMDB00162
Prostaglandin F1a	HMDB02685
Protoporphyrin IX	HMDB00241
PS(34:2)	HMDB12358

PS(38:2)	NA
PS(38:4)	NA
PS(38:5)	HMDB12404
PS(38:7)	HMDB12373
PS(40:6)	NA
PS(42:8)	HMDB12439
PS(44:12)	HMDB12450
Pyridoxamine	HMDB01431
Pyroglutamic acid	HMDB00267
Pyrrolidonecarboxylic acid	HMDB00805
Retinoate	HMDB02369
Riboflavin	HMDB00244
SM(d16:0/20:0)	NA
SM(d18:0/18:1(9Z))	HMDB12089
SM(d18:0/22:0)	HMDB12091
SM(d18:0/24:0)	HMDB12094
SM(d18:0/24:1(15Z))	HMDB12095
SM(d18:1/20:0)	HMDB13468
SM(d18:1/23:0)	HMDB12105
SODIUM BENZOATE	HMDB01870
Sphinganine	HMDB00269
Sphingosine-1-phosphate	HMDB00277
Suberic acid	HMDB00893
Succinate	HMDB00254
Sucrose	HMDB00258
Tartaric acid	HMDB00956
Taurine	HMDB00251
Taurodeoxycholic acid	HMDB00896
Tetradecanedioic acid	HMDB00872
Tetradecanoylcarnitine	HMDB05066
TG(38:0)	NA
TG(40:1)	HMDB07553
TG(44:3)	NA
TG(52:1)	HMDB46308
TG(56:7)	HMDB10521
TG(58:10)	HMDB48227
TG(58:5)	HMDB05408
TG(58:6)	HMDB52466
TG(60:5)	HMDB54421
TG(64:16)	HMDB10553
Thymidine	HMDB00273
Thymine	HMDB00262
Thyroxine	HMDB00248
trans-Aconitic acid	HMDB00958
Tryptophan	HMDB00929
Tyrosine	HMDB00158
Uric acid	HMDB00289
Uridine	HMDB00296

Uridine 5'-monophosphate	HMDB00288
Uridine diphosphate-N-acetylglucosamine	HMDB00290
Xanthosine	HMDB00299
γ -D-Glutamylglycine	HMDB11667

KEGG ID	database used	m/z	accurate mass
C03221	Metlin, HMDB	944.24	944.24
C05276	Metlin, HMDB	892.22	892.21
C05262	Metlin, HMDB	966.30	966.28
C05488	Metlin, HMDB	345.21	345.21
NA	Metlin, HMDB	297.24	297.24
C14775	Metlin, HMDB	337.24	337.24
C01124	Metlin, HMDB	363.22	363.22
C01885	Metlin, HMDB	331.28	331.28
C02990	Metlin, HMDB	302.23	302.23
C06340	Metlin, HMDB, LipidMaps	431.38	431.38
C05984	HMDB	103.04	103.04
C03672	Metlin, HMDB	181.05	181.05
C01367	Metlin, HMDB	348.07	348.07
NA	Metlin, HMDB	187.14	187.13
NA	Metlin, HMDB	386.27	386.27
C03761	Metlin, HMDB	161.05	161.05
NA	HMDB	290.15	290.15
C01152	Metlin, HMDB	170.09	170.09
C05263	Metlin, HMDB	964.24	964.26
NA	HMDB	427.36	427.35
C00633	Metlin, HMDB	121.03	121.03
C01157	Metlin, HMDB	132.06	132.07
C04352	Metlin, HMDB	403.09	403.09
C01181	Metlin, HMDB	146.12	146.12
C14772	Metlin, HMDB	339.25	339.25
C00431	Metlin, HMDB	118.09	118.09
C01017	Metlin, HMDB	219.08	219.08
C14732	Metlin, HMDB	319.23	319.23
NA	HMDB	153.04	153.03
C03299	HMDB	396.30	396.30
C01530	HMDB	281.25	281.25
NA	Metlin, HMDB	319.23	319.23
NA	Metlin, HMDB	297.24	297.24
C00894	HMDB	822.10	822.13
C00301	Metlin, HMDB	558.07	558.07
C00054	Metlin, HMDB	426.02	426.02
C00008	Metlin, HMDB	428.03	428.02
C01551	Metlin, HMDB	157.04	157.04
NA	Metlin, HMDB	393.30	393.30
C06427	Metlin, HMDB	279.23	279.23
C00956	Metlin, HMDB	160.06	160.06
C00219	Metlin, HMDB, LipidMaps	305.25	305.25
C00062	Metlin, HMDB	175.12	175.12
C03626	Metlin, HMDB	203.15	203.15
C00500	Metlin, HMDB	583.25	583.26
C00120	Metlin, HMDB	245.10	245.10
C02530	Metlin, HMDB	569.53	569.53

C00195	Metlin	636.61	636.59
C00195	Metlin, HMDB	638.65	638.64
NA	Metlin, HMDB	472.34	472.34
C02528	Metlin, HMDB	393.30	393.30
C00187	HMDB	369.35	369.34
C00158	Metlin, HMDB	193.03	193.03
C00327	Metlin, HMDB	174.09	174.09
C00300	Metlin, HMDB	132.08	132.08
C00791	Metlin, HMDB	114.07	114.07
C00475	Metlin, HMDB	242.08	242.09
C00705	HMDB	386.03	386.02
C05274	Metlin, HMDB	922.27	922.26
C00425	Metlin, HMDB	173.01	173.01
C01227	Metlin, HMDB	289.22	289.22
C04483	Metlin, HMDB	391.29	391.29
C00526	Metlin, HMDB	227.07	227.07
C01802	Metlin, HMDB	385.35	385.35
C02336	Metlin, HMDB	179.06	179.06
C00165	Metlin, HMDB, LipidMaps	709.66	709.67
C00165	Metlin, HMDB, LipidMaps	695.57	695.56
C02679	Metlin, HMDB	199.17	199.17
C03299	Metlin, HMDB	344.28	344.28
C06428	Metlin, HMDB	303.22	303.22
C16526	Metlin, HMDB	309.28	309.28
C0264	Metlin	161.09	161.09
C00016	Metlin, HMDB	784.15	784.15
C01126	Metlin, HMDB	223.20	223.21
C00122	Metlin, HMDB	115.00	115.00
C00628	Metlin, HMDB	155.04	155.03
C01190	Metlin	672.55	672.54
C01190	Metlin, HMDB, LipidMaps	730.62	730.62
C00257	Metlin, HMDB	195.05	195.05
C00198	Metlin, HMDB	179.05	179.06
C00329	Metlin, HMDB	180.09	180.09
C00103	Metlin, HMDB	261.04	261.04
C01190	Metlin, HMDB	698.56	698.56
C01190	Metlin, HMDB	754.64	754.62
C00191	Metlin, HMDB	193.04	193.04
C00025	Metlin, HMDB	148.06	148.06
C00064	Metlin, HMDB	145.06	145.06
C00819	Metlin, HMDB	147.08	147.08
C00258	Metlin, HMDB	105.02	105.02
C01921	Metlin, HMDB	464.31	464.30
C02990	Metlin, HMDB	430.32	430.32
C01586	Metlin, HMDB	180.07	180.07
C00135	Metlin, HMDB	154.06	154.06
C00263	Metlin, HMDB	120.06	120.07
C08317	Metlin, HMDB	215.17	215.17

C00954	Metlin, HMDB	176.07	176.07
C00331	Metlin, HMDB	202.05	202.05
NA	Metlin, HMDB	134.06	134.06
C00104	Metlin, HMDB	427.01	427.01
NA	Metlin, HMDB	232.15	232.15
C00407	Metlin, HMDB	130.09	130.09
C00129	HMDB	298.08	298.09
C19632	Metlin, HMDB	343.12	343.12
C00328	Metlin, HMDB	209.09	209.09
C00318	Metlin, HMDB	162.11	162.11
C00123	Metlin, HMDB	132.10	132.10
C05951	Metlin, HMDB	497.26	497.26
C02592	Metlin, HMDB	482.29	482.29
C00416	Metlin, HMDB, LipidMaps	461.25	461.26
C00416	Metlin, HMDB, LipidMaps	435.24	435.24
C04230	Metlin, HMDB	496.34	496.34
C04230	Metlin, HMDB	508.37	508.38
C04230	Metlin, HMDB, LipidMaps	522.35	522.36
C04230	Metlin, HMDB	518.32	518.32
C04230	Metlin, HMDB	606.45	606.45
C04230	Metlin, HMDB	510.35	510.36
NA	Metlin, HMDB	538.39	538.39
C05973	Metlin, HMDB	526.29	526.29
C00047	Metlin, HMDB	147.11	147.11
C00711	Metlin, HMDB	133.02	133.01
C00083	Metlin, HMDB	854.10	854.12
C04348	Metlin, HMDB	884.15	884.13
C00073	Metlin, HMDB	150.06	150.06
C03761	Metlin, HMDB	147.06	147.07
C01885	Metlin, HMDB	303.25	303.25
C01885	Metlin, HMDB	357.30	357.29
C06424	Metlin, HMDB	227.20	227.20
C01042	Metlin, HMDB	174.04	174.04
C04148	Metlin, HMDB	187.07	187.08
C19910	Metlin, HMDB	308.10	308.10
C03519	Metlin, HMDB	206.08	206.08
C00978	Metlin, HMDB	217.11	217.11
NA	Metlin, HMDB	245.09	245.09
C01046	Metlin, HMDB	162.08	162.08
C08261	Metlin, HMDB	187.10	187.10
C01942	Metlin, HMDB	908.24	908.24
C01826	Metlin, HMDB	118.09	118.09
C08363	Metlin, HMDB	283.26	283.26
C00077	Metlin, HMDB	131.08	131.08
C05852	Metlin, HMDB	151.04	151.04
C05379	Metlin, HMDB	189.02	189.01
C00127	Metlin, HMDB	613.16	613.16
C00322	Metlin, HMDB	159.03	159.03

C00026	Metlin, HMDB	145.01	145.01
C00416	Metlin, HMDB	621.43	621.45
C00416	Metlin, HMDB	701.49	701.51
C00249	Metlin, HMDB	255.23	255.23
C00249	Metlin, HMDB	256.26	256.26
C08362	Metlin, HMDB	255.23	255.23
C02990	Metlin, HMDB	400.34	400.34
C00864	Metlin, HMDB	218.10	218.10
C00350	Metlin, HMDB, LipidMaps	688.53	688.53
C00157	HMDB, LipidMaps	732.59	732.57
C00350	HMDB, LipidMaps	714.53	714.54
C00157	Metlin, HMDB, LipidMaps	762.61	762.60
C00157	Metlin, HMDB, LipidMaps	752.53	752.52
C00157	Metlin, HMDB, LipidMaps	762.56	762.54
C00157	HMDB, LipidMaps	800.53	800.53
C00157	HMDB, LipidMaps	834.58	834.59
C00157	Metlin, HMDB, LipidMaps	862.52	862.52
C00350	Metlin, HMDB, LipidMaps	746.57	746.57
C00350	Metlin, HMDB, LipidMaps	766.56	766.55
C00350	Metlin, HMDB, LipidMaps	728.56	728.56
C00350	Metlin, HMDB, LipidMaps	742.54	742.54
C00350	Metlin, HMDB, LipidMaps	772.48	772.47
C00350	Metlin, HMDB, LipidMaps	758.61	758.61
C00350	Metlin, HMDB, LipidMaps	752.57	752.56
C00350	Metlin, HMDB	782.48	782.48
C00350	Metlin, HMDB, LipidMaps	778.58	778.57
C00350	Metlin, HMDB, LipidMaps	814.53	814.54
C00350	Metlin, HMDB, LipidMaps	812.53	812.52
C00350	Metlin, HMDB	818.57	818.57
C00344	Metlin, HMDB	749.53	749.53
C00344	Metlin, HMDB	795.53	795.53
C00344	Metlin, HMDB	773.55	773.53
C00344	Metlin, HMDB	801.56	801.56
C00344	Metlin, HMDB	799.54	799.55
C00344	HMDB	871.44	871.46
C00079	Metlin, HMDB	166.09	166.09
C02305	Metlin, HMDB	212.05	212.04
C02059	Metlin, HMDB	451.36	451.36
C00626	HMDB	889.57	889.59
C00626	HMDB	885.55	885.56
C00626	Metlin, HMDB, LipidMaps	881.52	881.52
C00626	Metlin, HMDB, LipidMaps	909.56	909.55
C00408	Metlin, HMDB, LipidMaps	130.09	130.09
C00410	Metlin, HMDB, LipidMaps	315.23	315.23
C00148	Metlin, HMDB	116.07	116.07
C06475	Metlin, HMDB	379.25	379.25
C02191	Metlin, HMDB	563.26	563.27
C02737	Metlin, HMDB, LipidMaps	758.51	758.50

C02737	Metlin, HMDB, LipidMaps	816.57	816.57
C02737	Metlin, HMDB, LipidMaps	830.51	830.51
C02737	Metlin, HMDB, LipidMaps	810.53	810.53
C02737	Metlin, HMDB	806.48	806.50
C02737	Metlin, LipidMaps	820.56	820.55
C02737	Metlin, HMDB, LipidMaps	878.52	878.49
C02737	Metlin, HMDB, LipidMaps	880.52	880.51
C00534	Metlin, HMDB	169.09	169.09
C01879	Metlin, HMDB	128.04	128.04
C02237	Metlin, HMDB	130.05	130.05
C15493	Metlin, HMDB	301.21	301.22
C00255	Metlin, HMDB	375.13	375.13
C00550	Metlin, LipidMaps	755.60	755.60
C00550	Metlin, HMDB, LipidMaps	731.61	731.61
C00550	Metlin, HMDB, LipidMaps	789.68	789.68
C00550	Metlin, HMDB, LipidMaps	817.71	817.72
C00550	Metlin, HMDB, LipidMaps	815.70	815.70
C00550	Metlin, HMDB	781.62	781.62
C00550	Metlin, HMDB	823.67	823.67
C00180	Metlin, HMDB	121.03	121.03
C00836	Metlin, HMDB	302.31	302.31
C06124	Metlin, HMDB	380.26	380.26
C08278	Metlin, HMDB	173.08	173.08
C00042	Metlin, HMDB	117.02	117.02
C00089	Metlin, HMDB	341.11	341.11
C00898	Metlin, HMDB	149.01	149.01
C00245	Metlin, HMDB	126.02	126.02
C05463	Metlin, HMDB	500.30	500.30
C11002	Metlin, HMDB	257.18	257.18
NA	Metlin, HMDB	372.31	372.31
C00422	Metlin	695.61	695.62
C00165	Metlin, LipidMaps	693.61	693.60
C00165	Metlin, LipidMaps	779.60	779.60
C00422	Metlin, HMDB	859.77	859.77
C00422	HMDB	903.77	903.75
C00422	Metlin, HMDB	925.74	925.73
C00422	Metlin, HMDB	935.79	935.81
C00422	Metlin, HMDB	935.81	935.81
C00422	Metlin, HMDB	963.83	963.84
C00422	Metlin, HMDB	997.71	997.73
C00214	Metlin, HMDB	241.08	241.08
C00178	Metlin, HMDB	127.05	127.05
C01829	HMDB	775.68	775.69
C02341	Metlin, HMDB	175.02	175.02
C00078	Metlin, HMDB	205.10	205.10
C00082	Metlin, HMDB	182.08	182.08
C00366	Metlin, HMDB	169.03	169.04
C00299	Metlin, HMDB	243.06	243.06

C00105	HMDB	323.03	323.03
C00043	HMDB	606.08	606.08
C01762	Metlin, HMDB	283.07	283.07
C03740	Metlin, HMDB	205.08	205.08

Δ mass	RT (min)	Standard RT (min)	Δ RT (min)	B10	B12
0.0041	26.82	NA	NA	1309	1040
0.0117	26.77	NA	NA	3433	3078
0.0169	26.89	NA	NA	625	749
0.0052	24.30	23.98	0.32	244140	266640
0.0048	24.89	NA	NA	21484	22788
0.0007	26.19	NA	NA	1618	947
0.0013	23.52	NA	NA	17642	18574
0.0050	25.36	25.70	0.34	16482	17532
0.0011	23.96	23.41	0.55	11237	10361
0.0001	26.99	NA	NA	161922	228196
0.0003	8.04	8.07	0.03	665172	959575
0.0010	12.32	12.50	0.18	59744	38945
0.0024	5.38	NA	NA	7180	4805
0.0017	22.51	21.78	0.73	35415	67058
0.0005	25.32	NA	NA	13185	17401
0.0010	6.62	NA	NA	1523	3811
0.0027	26.33	NA	NA	25859	29651
0.0005	4.82	4.89	0.07	109414	150925
0.0181	27.04	NA	NA	3622	3036
0.0101	26.88	NA	NA	5033	4696
0.0013	17.11	17.30	0.19	16847	20555
0.0010	4.73	4.70	0.03	7728	9794
0.0020	21.87	NA	NA	100513	94580
0.0020	6.44	6.21	0.23	29169	32130
0.0011	25.33	NA	NA	8088	8185
0.0011	5.38	5.32	0.06	149177	107380
0.0005	8.88	NA	NA	25127	18929
0.0006	24.74	NA	NA	113563	117983
0.0037	20.63	NA	NA	165995	132337
0.0007	24.05	24.25	0.20	23152	25572
0.0017	25.98	NA	NA	165812	384138
0.0008	25.26	NA	NA	174527	328092
0.0048	25.39	NA	NA	46957	51733
0.0230	6.37	NA	NA	91	19
0.0021	4.76	4.87	0.11	2558	2134
0.0036	4.79	4.75	0.04	6470	14544
0.0098	4.82	4.75	0.07	2046	6774
0.0011	5.01	5.03	0.02	44758	35155
0.0018	24.53	25.40	0.87	6483	8232
0.0009	25.83	NA	NA	47567	66521
0.0018	4.90	4.89	0.01	24133	20510
0.0005	26.10	NA	NA	131513	162801
0.0010	4.52	4.33	0.19	72103	56239
0.0012	5.38	5.35	0.03	15680	15413
0.0018	25.02	25.18	0.16	51906	128109
0.0026	18.69	19.12	0.43	23300	20940
0.0003	26.71	NA	NA	14573	14945

0.0133	4.42	NA	NA	26248	23870
0.0088	4.39	NA	NA	24924	21496
0.0055	25.59	NA	NA	34664	31360
0.0010	25.62	25.30	0.32	28789	26362
0.0074	27.42	27.15	0.27	70542	74839
0.0002	5.60	5.38	0.22	17732	26762
0.0011	4.76	4.79	0.03	81463	68279
0.0008	5.34	5.33	0.01	323567.5	223031
0.0003	5.42	5.96	0.54	40804	21445
0.0030	5.39	5.31	0.08	31376	226379
0.0110	4.93	5.22	0.29	8233	17527
0.0111	27.51	NA	NA	2278	3039
0.0012	6.33	5.34	0.99	85793	124832
0.0002	24.84	NA	NA	36446	33367
0.0001	25.33	25.40	0.07	87461	60111
0.0016	7.83	NA	NA	104993	135840
0.0007	26.74	26.21	0.53	4074	5748
0.0018	4.94	4.67	0.27	450676	450408
0.0126	4.38	NA	NA	6472	5698
0.0041	4.40	NA	NA	3791	3867
0.0018	24.74	24.80	0.06	7285	7309
0.0012	23.22	23.10	0.12	10324	16957
0.0060	25.24	NA	NA	125622	237214
0.0030	26.29	NA	NA	3946	7664
0.0022	24.75	24.84	0.09	9903	8303
0.0016	16.32	16.65	0.33	23873	41255
0.0009	25.31	NA	NA	4019	4835
0.0011	5.78	6.57	0.79	33225	29868
0.0019	16.22	NA	NA	89897	88513
0.0114	4.42	NA	NA	1807	2283
0.0019	4.36	NA	NA	369	386
0.0012	4.71	4.68	0.03	34808	376550
0.0012	4.69	4.80	0.11	564	4557
0.0008	4.92	4.43	0.49	79965	99982
0.0008	4.70	4.31	0.39	23632	42364
0.0070	4.41	NA	NA	18907	18091
0.0149	4.34	NA	NA	1640	1241.5
0.0004	4.62	NA	NA	6713	9308
0.0014	4.68	4.62	0.06	19604	46457
0.0013	4.59	4.49	0.10	203109	207455
0.0010	4.64	4.63	0.01	713792	852369
0.0026	5.05	5.06	0.01	9986	9384.5
0.0032	24.08	24.10	0.02	954	1879
0.0018	24.81	NA	NA	18473	18638
0.0004	17.22	17.44	0.22	474302.5	809752
0.0009	4.48	4.24	0.24	7343	8948
0.0009	4.65	4.45	0.20	50420	48708
0.0011	23.64	NA	NA	25442	36477

0.0004	20.01	NA	NA	10441	15897
0.0017	21.06	20.80	0.26	6326	3924
0.0005	12.35	12.96	0.61	18529	18507
0.0001	5.59	6.54	0.95	1321	2907
0.0002	13.75	NA	NA	221553	264512
0.0023	6.35	6.90	0.55	69382	50901
0.0023	23.75	23.80	0.05	31403	33352
0.0004	4.71	NA	NA	26854	34782
0.0001	12.05	12.08	0.03	30437	28024
0.0017	5.47	5.72	0.25	1506130	1006476
0.0001	6.55	6.90	0.35	412643	323816
0.0015	25.71	25.00	0.71	477473	538061
0.0016	24.42	24.50	0.08	1615	1980
0.0122	24.61	NA	NA	16013	17053
0.0057	24.17	NA	NA	36655	42208
0.0023	27.60	NA	NA	32028158	39862619
0.0017	26.55	NA	NA	189239	249706
0.0018	26.22	NA	NA	11913729	12802685
0.0000	26.09	NA	NA	2392823	2941881
0.0025	27.70	NA	NA	56929	55771
0.0027	26.08	NA	NA	592263	781236
0.0043	26.60	NA	NA	234815	314588
0.0017	25.40	NA	NA	3133990	3923546
0.0010	4.17	3.98	0.19	76115	79790
0.0024	5.40	5.26	0.14	30130	100554
0.0122	21.08	NA	NA	32141	19397
0.0161	26.21	NA	NA	875	1115
0.0004	6.04	6.08	0.04	328008	338175
0.0025	12.03	12.18	0.15	69065	64546
0.0034	24.98	NA	NA	6916	7847
0.0072	25.63	NA	NA	154135	98411
0.0008	25.24	25.30	0.06	6752	10442
0.0008	6.34	6.50	0.16	21570	56597
0.0052	6.42	NA	NA	1108	1098
0.0012	4.90	4.88	0.02	11489	8131
0.0012	19.39	19.51	0.12	23572	38449
0.0046	18.77	18.44	0.33	2157	3704
0.0012	19.74	19.47	0.27	38449	46517
0.0009	4.89	NA	NA	39436	55695
0.0017	20.50	20.60	0.10	135470	169113
0.0005	27.26	NA	NA	17631	17661
0.0001	6.37	5.78	0.59	826526	799428
0.0011	25.99	25.70	0.29	18884	39825
0.0020	4.78	4.11	0.67	54395	45241
0.0015	17.51	16.90	0.61	10019	6370
0.0055	20.30	NA	NA	3853	4526
0.0008	5.37	6.01	0.64	7966	11947
0.0008	6.29	6.62	0.33	15574	20971

0.0005	5.42	NA	NA	13471	31143
0.0147	26.54	NA	NA	8326	7313
0.0169	23.01	NA	NA	10570	7028
0.0002	25.74	25.80	0.06	81196	149609
0.0003	25.39	25.80	0.41	101469	102951
0.0000	25.59	25.70	0.11	29685	53719
0.0004	24.37	24.25	0.12	245122	370547
0.0006	10.71	10.74	0.03	520282	457439
0.0051	4.41	NA	NA	23018	24084
0.0205	4.45	5.38	0.93	22473	19703
0.0110	4.45	4.87	0.42	6356	6650
0.0060	4.41	NA	NA	44250	35417
0.0028	4.38	4.87	0.49	7917	7523
0.0113	4.41	4.91	0.50	8285	7687
0.0012	4.42	NA	NA	2264	1398
0.0114	4.40	5.38	0.98	20505	16612
0.0036	4.35	NA	NA	2975	1452
0.0035	4.35	4.97	0.62	4520	3109
0.0041	4.39	NA	NA	8391	8658
0.0038	4.35	NA	NA	2449	2310
0.0029	4.44	4.99	0.55	13928	14158
0.0106	4.42	5.01	0.59	2884	2693
0.0002	4.40	5.29	0.89	38068	34901
0.0151	4.42	NA	NA	31130	26504
0.0054	4.39	NA	NA	3340	3802
0.0037	4.40	NA	NA	9902	10012
0.0058	4.39	NA	NA	23180	20987
0.0049	4.40	NA	NA	35382	27279
0.0035	4.38	NA	NA	41344	31952
0.0042	27.40	NA	NA	159599	166041
0.0012	4.42	NA	NA	1971	1741
0.0124	28.26	NA	NA	19948	20238
0.0077	28.63	NA	NA	40325	44317
0.0110	27.57	NA	NA	15442	13788
0.0211	4.40	NA	NA	617	676
0.0011	9.68	9.68	0.00	3724247	5874978
0.0027	4.95	4.96	0.01	2937	4786
0.0005	27.30	28.08	0.78	20086	20749
0.0177	25.75	NA	NA	39794	40255
0.0061	23.99	NA	NA	789714	1300784
0.0038	36.06	NA	NA	11812	4240
0.0086	38.89	NA	NA	11136	6817
0.0012	6.36	7.04	0.68	79857	82652
0.0024	25.72	25.92	0.20	4403	4383
0.0013	5.37	5.57	0.20	130068	134740
0.0000	24.19	NA	NA	20108	20042
0.0008	27.59	27.80	0.21	891	5852
0.0131	4.39	NA	NA	9728	11251

0.0057	4.37	NA	NA	25049	23398
0.0023	4.42	NA	NA	2471	2242
0.0014	4.38	NA	NA	37419	32263
0.0141	4.44	NA	NA	21108	22839
0.0148	4.40	NA	NA	40473	34767
0.0239	4.40	NA	NA	15854	13858
0.0047	4.40	NA	NA	13931	11284
0.0035	4.19	4.71	0.52	21619	20629
0.0010	7.56	8.55	0.99	502378	745999
0.0003	7.56	NA	NA	276648	528343
0.0017	25.50	26.30	0.80	34113	36101
0.0012	19.16	19.11	0.05	1485	1715
0.0012	28.53	28.10	0.43	98331	107073
0.0008	28.13	28.10	0.03	1739950	1781713
0.0065	28.67	28.10	0.57	53461	61777
0.0057	28.82	28.10	0.72	18769	15457
0.0006	28.84	28.10	0.74	212702	183802
0.0011	28.46	28.12	0.34	102705	115804
0.0047	27.94	NA	NA	26855	28242
0.0021	20.30	20.50	0.20	15676	26162
0.0002	23.29	23.71	0.42	1145	4377
0.0019	24.22	24.21	0.01	120946	111866
0.0014	18.82	19.03	0.21	44968	47225
0.0012	6.87	7.37	0.50	133891	285938
0.0017	4.86	4.66	0.20	20963	34478
0.0012	4.79	4.82	0.03	1683	2390
0.0019	4.58	4.52	0.06	259413	273566
0.0005	23.90	24.00	0.10	42145	40395
0.0021	23.90	NA	NA	65337	60720
0.0001	22.67	NA	NA	18521	14402
0.0089	4.52	NA	NA	11436	9403
0.0112	4.52	NA	NA	9907	7877
0.0068	4.43	NA	NA	1536	1332
0.0006	3.82	NA	NA	2497	4209
0.0224	4.20	NA	NA	4458	4172
0.0135	3.85	NA	NA	3415	4606
0.0164	4.20	NA	NA	4275	4253
0.0017	4.29	NA	NA	6684	5464
0.0049	4.22	NA	NA	6434	5086
0.0201	3.87	NA	NA	645	1328
0.0006	11.11	11.24	0.13	138744	292448
0.0004	11.19	10.60	0.59	75601	169369
0.0111	23.68	23.70	0.02	6623	3646
0.0015	5.63	5.38	0.25	21258	31004
0.0002	12.06	12.12	0.06	4170714	4311697
0.0011	6.36	6.39	0.03	654623	691028
0.0009	5.75	6.09	0.34	599688	997993
0.0013	6.33	6.82	0.49	40137	103445

0.0026	4.80	4.87	0.07	849	932
0.0026	5.42	4.56	0.86	3648	18681
0.0003	8.72	8.66	0.06	764	3764
0.0012	4.84	NA	NA	10571	12447

B20	B21	B22	B25	B26	B28
417	1305	1120	886	284	1525
3545	2515	3142	2384	2904	3151
433	1183	571	1141	571	878
289698	262528	221424	270580	254494	339721
20490	22417	20460	20330	20435	19436
1073	1472	736	1350	1306	697
17921	12745	8212	14189	11134	17172
18650	15315	15371	15253	16431	15931
10303	9686	9824	10815	9778	11023
233299	250899	239246	183465	243208	203311
1000593	1149128	1299868	1221876	1013632	1769981
54187	51817	43812	78322	96059	56761
609	4116	942	11125	12349	609
57483	72399	72831	54287	71187	70981
14617	13813	24031	19618	17564	14787
3527	3241	5857	2818	3508	3632
26413	24117	14949	14783	12137	26365
136197	111930	150557	156886	127309	168513
4219	4534	1835	3027	2435	4078
3720	3003	4375	6263	4689	3194
6126	8453	5242	10078	10520	10227
7726	6589	8076	6008	7084	7690
114292	101398	117283	108683	126321	95056
21983	21668	19392	34590	22785	25120
6842	10865	6487	13256	8090	7482
98427	155731	131301	111645	147383	86716
4811	9062	9060	8117	6269	6552
90633	102535	91916	105070	104955	118957
146159	137294	154311	143708	127192	184251
25589	26452	25012	25870	25138	25084
174664	232372	198026	185541	179389	431395
88010	126722	94708	103373	146934	239511
47356	50233	50418	50119	48110	49790
28	89	1045	626	1367	81
1276	1492	1505	4759	10061	1861
5198	10399	6069	9190	15737	9783
2546	3847	4776	4406	6402	3342
75440	49382	10133	19188	12737	108127
8928	7219	11763	7617	7180	7859
38476	50053	60535	82124	56161	52296
19148	27163	5180	6733	5378	20183
128990	144533	195163	164625	167408	171762
48601	36753	34581	97439	90651	46207
14058	16699	11210	19002	14359	9957
47574	39584	59909	53452	48737	48706
17088	17854	23128	18748	17772	19541
10356	13796	18312	7364	11562	11406

20580	23909	30038	28298	28119	23884
22742	22112	25095	23051	22423	23543
35489	34899	35356	38812	39301	35408
27396	26847	32607	33092	30542	26630
83553	78912	151055	84143	111872	79587
46657	43828	47708	19944	39651	39868
81004	73919	61031	67997	53177	78682
263066.5	318467	242574	273735.5	377306.5	241434.5
27838	44731	30093	36403	36798	25914
37407	55877	81082	15746	5795	11785
23483	20143	33295	45676	93646	29226
2833	2418	1602	3090	2328	2096
209932	197839	189796	129175	254668	206252
29636	30849	28835	27264	32098	36736
87263	126792	57751	186767	76046	62486
107078	91206	90051	73047	67956	99308
4433	3088	2500	3590	3362	2885
561499	597498	419756	349155	423621	636662
4778	5148	7573	7361	7546	5911
3401	3530	4405	4177	4180	3621
5682	8122	4539	5149	5263	9800
12514	12487	11882	20834	20895	16355
77672	110095	89220	89887	109407	141549
4285	10940	3353	2901	2818	5396
10879	9828	7422	6239	7525	10257
44218	30131	52972	17289	30293	39679
4670	4112	5000	3612	5549	5039
68920	54755	32607	135750	141823	34744
87447	80509	88503	92959	84514	92682
2025	2780	2292	2015	2830	2088
278	238	347	413	411	334
89099	113956	85427	58308	207467	230947
1064	1256	2756	527	2466	2816
106171	101509	30615	29521	32180	99326
48768	48611	45550	25590	40065	28262
17426	17224	21411	19277	19305	17283
1492	1445	1201	1819.5	1879.5	1449
15835	19737	12195	9698	16341	11740
19606	19536	22134	18024	24717	19487
205611	213634	170402	188376	163849	201410
854668	775968	796783	712109	775119	804322
8977	10131	4663.5	4333	3241	16734.5
633	1068	1712	17513	1239	693
19280	17492	20073	18642	17249	19266
1397058.5	1086523.5	514636.5	2313229	3427333.5	689013
8286	8136	10416	8078	11512	9457
39104	47497	42986	29765	42132	39254
27487	34226	36397	27848	34781	39868

16840	15868	13956	7975	13812	16061
14573	11208	8960	6113	9086	13673
25221	24264	15700	6405	23424	18270
6517	6437	6724	2246	3940	6290
191841	170042	200066	168756	221576	328779
52801	55635	68504	50262	67151	59010
28748	29504	19371	19865	16483	32522
41237	39580	37746	25701	39578	43212
28563	28136	23678	79561	30549	32836
1142226	1016575	1051924	991265	995389	1004815
290225	280307	484993	344511	487271	296981
415403	468717	557387	356678	475990	434647
1953	1748	1723	20820	2196	1950
17724	16825	18394	17118	16087	16006
39336	36914	42808	43213	40005	35989
31823340	32874607	44969806	30978976	41005605	33428726
178207	170754	234478	143000	188245	136156
12075304	12150200	14620169	11524778	13102870	9656915
2388115	2532708	3163478	3016337	2940169	3318827
61599	56282	73053	52692	69192	48215
677778	680868	864040	619842	825913	623052
298777	363967	348377	269882	355848	238080
2949489	2531788	4729032	2841843	3365339	2876723
70512	79477	52179	61538	72223	54586
124034	110205	51910	89072	67415	46453
13717	20464	48492	8399	13059	37057
757	1275	824	447	535	1524
259325	265254	322548	282322	286452	323742
47084	58525	76022	47168	62609	69844
6235	4253	5050	3010	4346	2350
206249	71164	211868	359856	300398	104306
5276	8192	6614	9777	7599	14071
23647	20846	20052	28007	39681	17364
5085	4970	2909	642	572	945
10641	9335	5997	6588	5285	9422
28829	41439	42152	34879	46278	45293
4298	4981	4085	4669	4473	4222
52903	52896	45400	58970	84397	58050
42660	54767	20137	24913	25274	32679
121944	116042	145817	109905	123994	123618
16448	16745	13700	18292	15681	14631
660269	705582	656941	670392	630456	743863
34538	40108	73757	92084	69287	59538
46034	51173	40965	35263	33081	50773
24557	29040	11012	69084	69020	12409
5535	4947	5633	16568	14310	4563
19872	19921	14926	5185	10271	16422
20607	24971	12905	17875	15796	16084

44966	46392	21478	38930	16109	17949
6152	9530	7712	11157	10090	8413
17024	7080	19528	11523	21340	6508
74676	121909	85322	70204	63767	183380
106026	106945	115808	100588	109846	106879
34334	47937	58482	68887	60373	54335
460904	398556	503610	352248	384216	358505
563332	550072	565236	551453	523475	556651
23550	23602	25068	21477	19386	23305
20116	20201	24603	25097	25579	18308
6362	6297	7850	5439	8280	6299
35167	34841	44619	45180	41364	36931
7008	7292	8272	7748	7469	7261
7289	8071	9654	9590	9455	8064
1848	1880	2279	2200	1755	2070
17197	17875	23254	18373	19937	17971
1978	1735	2582	2711	3218	2486
3370	3785	4800	4700	5127	3243
8053	7388	10739	9833	10433	7295
1982	2149	2212	2308	2144	2121
14250	15981	12164	10928	9729	15604
2697	2944	3301	2576	3091	3191
34810	35140	38805	36116	35389	35508
29906	28007	28635	27653	25178	30499
3754	3506	4995	3754	4799	3853
9652	10366	12369	10500	12909	11438
20953	22508	21816	19363	18630	22820
29791	31449	29403	27489	26783	31625
33741	34437	43243	38606	37330	35222
219844	160349	256826	184227	256340	157910
2098	1665	2130	2202	2766	1438
23327	22741	28136	26875	32918	26600
67125	44866	42425	39434	59343	60530
18155	14555	16895	21358	22565	14949
833	708	702	580	872	635
4208484	5612421	5345935	5522204	5066224	4681615
6456	4187	1803	2005	2349	3203
18534	19340	12971	17417	16604	18106
1130	29705	5471	6941	4502	54783
2234	871719	165890	149868	141479	1410217
16312	10750	7587	7696	8404	7232
14060	17337	18396	9664	15700	13682
77246	81377	59066	63497	68588	67802
5244	5652	3779	6955	5196	6168
110385	131000	94297	162884	128177	71161
19467	19744	19864	28271	30576	19825
1391	708	1788	2135	1593	2490
12105	10923	11861	9372	9604	10942

24012	24279	21990	22347	21408	26494
1579	2042	2937	2608	3073	2037
34738	36331	36145	32315	32141	36953
22206	23786	20423	17739	17479	23773
34979	33356	41866	39769	36522	37326
13516	13871	15734	13045	12867	15481
12174	11926	13761	12488	11616	13938
19950	21559	15793	15817	18285	16377
667279	569705	489095	506763	477266	721972
291633	353042	188455	180170	227202	329571
28928	30198	27149	29820	30305	34514
3289	3348	3541	1968	3526	3909
128398	122569	150414	110481	169556	142123
2384459	2214713	5895281	2356056	4526782	3139245
90314	83092	270919	127478	194495	136859
23983	20217	66109	40703	42570	32361
277433	226089	615504	426625	414406	326725
134546	124780	109996	114535	141019	147686
35187	33011	40425	43495	42020	45066
25401	20348	20908	87929	70358	23174
1894	1938	4391	4068	6160	1406
126544	131447	140956	115302	178459	120946
50331	40575	53875	33166	30972	33448
238801	197636	137391	457480	1489361	132227
38466	37110	44448	19830	38957	45089
7205	1214	931	171	1049	736
386438	378477	385938	393423	514237	302453
32051	38551	41671	103271	42531	40152
61059	63984	63592	68195	66077	63816
17787	20089	17121	15227	19266	10017
10585	11712	13054	14776	14728	10535
9576	9395	11425	11852	11948	8466
1427	1402	1628	1719	1844	1039
4037	3863	4900	3088	3929	4165
4317	3520	3925	4089	4000	4187
4953	4264	4928	4590	4919	4751
5978	5813	6250	4337	6841	8060
5577	5972	5082	6773	4442	6163
4663	4207	3350	6420	4495	5123
1340	1100	1177	848	1409	1348
112324	120167	170324	129334	86358	123516
109912	81403	73336	107297	82577	91493
4476	4519	6626	3489	3046	4260
45868	43843	64585	26404	47680	43126
3616711	5002289	4833427	3613609	4555037	4646643
606086	657856	813714	781234	884848	762193
831785	685338	438878	1152945	2942925	478224
58638	61061	50543	70660	144531	44603

693	508	330	868	2543	561
5063	7201	6402	851	0	1285
420	988	672	1675	28249	1064
17088	12890	14677	13623	14861	12796

B5	C11	C14	C16	C18	C19
1080	1077	794	884	327	879
3271	2558	2765	3995	2921	1968
721	1027	891	797	636	1225
284081	270364	306771	280198	301494	299525
19988	20481	21604	20845	20707	21780
1743	578	1772	1431	1730	1878
17779	13633	16442	14244	14929	22468
20153	18829	17161	14878	15969	33860
11856	10618	10702	10314	10188	12382
242818	264094	222347	205594	230221	185468
1435867	1274832	1371584	967380	1378525	1094536
43496	51966	47428	39982	45096	66315
1924	1218	2016	609	2273	14627
57059	85591	87240	50752	51590	48265
17199	18058	18996	17543	17493	22211
2784	3192	4252	3043	3529	3048
24761	23002	25575	26361	11114	7071
118497	176221	168682	219954	132721	165639
3840	3739	3300	3596	2123	2830
5138	2939	5320	2781	2487	4905
18223	7032	16779	12373	7603	12482
8289	10369	9398	8047	5010	4583
106241	119373	102873	99013	126581	132939
33961	22400	21805	33751	14969	22328
7086	12618	6349	5485	11122	9877
143383	91794	108024	108598	130218	82914
13029	11727	23119	17816	13380	9998
103002	109075	140443	96900	98142	114008
158793	150123	138606	136419	128688	120675
27667	28552	26866	23545	25618	32475
205137	238315	378760	246479	209375	220914
176256	403217	367053	74031	78525	95120
50817	49449	52502	49750	50574	55510
493	47	187	66	712	413
1168	2981	4469	931	2069	10232
8039	19537	26528	6714	8225	20709
3173	8436	11104	3710	3444	10883
133386	21350	31484	25357	21602	9288
12098	6602	9276	5586	6725	4529
54227	52970	67278	45377	65673	68639
28014	13656	16855	12062	12642	5719
153563	172200	195424	148575	205592	185193
64061	22155	15203	99648	52460	103656
16112	8125	12677	12186	14766	10359
142782	53547	46867	33053	38608	42214
26295	18573	18390	17595	23373	22624
10932	18079	17782	14873	12391	11208

23030	27460	26168	26236	28218	27352
20254	26061	22792	25710	21968	24972
32755	32842	33833	34803	38495	43669
28494	24155	26849	28273	31133	34250
78737	96583	77789	77150	90185	89867
47587	45817	36324	25402	26636	21243
74032	66184	66442	74662	61931	63009
372249.5	229826	234161.5	265558	280746	305029
43637	20139	21838	25316	32970	20807
20209	83280	99123	36538	44867	26303
11553	50501	23020	32528	27069	51075
2623	2335	2872	2460	2986	2754
211499	195730	188099	145609	154569	213019
34330	36609	42610	30324	26916	30538
91404	169178	56567	39733	108268	98293
124395	114547	110617	99263	85965	102638
4247	3808	4138	5286	3389	3102
628478	503082	543698	443465	557854	334602
4719	6458	6253	6899	6101	7822
3985	4831	4075	3442	4091	4247
5910	6441	11908	7307	4801	4480
14034	16832	19136	9858	10366	20101
143481	252637	235200	78762	83941	108923
3644	8278	16420	2755	3343	7335
11445	8445	10352	8920	8597	7350
27983	58889	47523	29891	36532	29408
5072	4441	3685	5696	4504	4488
32800	54668	50796	53209	41078	82242
89122	83819	83956	79112	93231	90074
2207	2556	2737	2573	2527	2349
424	579	272	469	460	411
62511	101774	151992	75453	91733	76026
818	2002	2196	1215	992	1261
118264	127669	112166	105049	48032	38698
55802	42371	46354	26755	46922	26849
18762	20028	19489	20553	19541	20020
1330.5	1891	1625.5	1628	1695	2068
10216	19956	13657	14323	12504	10927
19015	39278	36445	14678	19306	26995
179923	215225	206136	194774	173297	178113
782295	900113	866669	801549	741740	743093
15798.5	6152	7225	6369.5	6314.5	1319.5
230	1421	2014	341	176	451
19256	18968	19132	17853	22026	23686
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8101	8892	8003	11673	8485	7095
45403	43366	38142	39925	32745	35456
36851	42067	47191	26502	28930	31270

16968	14640	11334	16260	10257	9209
10765	6801	7921	9413	6163	6115
17467	27297	18193	27789	17118	14656
5215	7190	4313	4831	6461	4010
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59039	49311	55434	64596	49955	48464
28853	26150	29598	31424	20361	19113
41840	46527	45895	43274	47395	35614
21375	25092	24587	20704	32231	40514
1314176	956526	862300	805716	954222	856177
295588	262482	263412	596713	268329	323150
478229	643861	561122	460986	438763	421470
1931	3469	2683	2609	2033	3013
18314	18859	18997	18521	17971	16648
40825	46548	44782	36454	41751	38884
33116292	45238299	39717944	31403593	38305798	36004100
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12023354	14039245	11839953	8914032	11816462	11664334
2682047	2843807	3203629	2652411	3452929	3077502
61423	59764	47988	54300	56891	58142
671003	859249	819476	682267	778387	718507
302408	384143	320350	267477	282132	304905
2887897	5614459	5052006	3317253	3245124	2730314
79148	58826	52107	63491	53627	50934
73824	68472	86907	74821	49793	101079
19758	23488	16241	22174	23193	6894
1497	505	947	1827	366	469
295523	253030	275892	291330	242782	246119
60885	48244	54553	45262	49271	57106
3700	4705	6569	1918	2553	9471
189423	115129	119844	110014	166642	400935
8769	9760	8018	8211	7435	5860
23492	22054	19258	23186	36202	45728
558	4786	13509	3420	3963	2625
8930	9013	8353	8804	7509	10010
31222	29835	21113	34114	24827	25511
5580	6567	5679	1757	4152	3227
73548	46672	41061	107777	54228	46391
47857	45824	46772	35235	30575	25912
140790	142563	151595	116821	101911	115261
18071	14105	14843	14835	18097	18331
732315	807547	746161	858950	545067	684677
37369	45828	57582	40024	98753	82291
40779	44974	46516	44437	35993	36822
12149	30122	29251	9728	30362	81409
4334	5916	7203	5310	6511	15249
9208	28043	25415	15465	18718	27252
29111	13498	14053	17396	10953	15379

25274	19562	27185	22935	19876	29648
6255	8963	9825	12957	12313	13349
14698	14843	9504	7018	22088	26344
95722	112432	127316	112686	81784	100435
104803	97988	98203	100937	109051	99045
47920	44142	50541	44895	70399	57561
434366	440634	480114	246525	341774	344396
556935	441755	494469	559558	575781	626721
23593	23169	25210	24336	24681	22795
18241	25010	21621	23624	23168	25108
6904	8439	6676	6831	7226	7930
32802	42154	40129	47281	37112	46669
7745	8825	8147	8194	8093	8583
7527	8892	8776	8996	8436	8621
1672	2804	2395	1940	2165	2130
15602	19704	19610	20689	17218	23098
1610	3205	2960	2971	3142	2672
4138	3919	4669	5096	4750	5521
7736	10228	8455	9924	9368	10990
1955	2379	2260	2672	2548	2301
12887	16943	14610	14820	14597	12110
3211	3370	2933	3032	3700	3343
32020	37782	36068	41565	35297	39380
26043	30399	27498	31618	28271	30387
3758	4731	3839	4205	4465	4538
8493	12114	10723	12543	11174	14211
18394	24648	22135	25114	23177	23402
27818	33372	31847	34188	34151	32487
31150	37832	37591	40089	35871	42876
171365	203634	182015	172643	239550	254367
1511	2379	1915	2257	2174	2369
24556	27546	23347	26149	29566	24841
74670	43513	73783	62237	42484	41854
14206	15047	16125	16352	23274	25704
633	982	732	1159	885	821
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20560	18193	18306	17559	17484	16313
15860	10824	15340	22596	3840	2594
412457	301162	410984	634255	132419	62278
15748	31968	21266	17070	11036	6760
13440	29261	25544	20995	13344	11588
79312	63937	62775	76152	56807	54570
6257	3273	7276	6689	7350	5660
147268	96761	97405	87049	77380	72290
20311	22766	20655	20646	19548	20484
1508	9721	18143	1692	1058	1592
11313	11692	11723	11345	11201	9975

21116	27647	25415	26091	24135	27174
2074	2955	1951	2751	2527	3379
34882	38093	37042	39874	37945	36669
20887	25271	23385	23860	24564	21475
33924	39174	37811	45574	36071	42678
12325	16118	15430	16527	14316	16180
11102	13615	13478	14948	13894	13321
20803	16097	15141	18328	13343	14664
534473	786398	659995	681425	450210	556252
305932	423752	385530	323375	189879	219197
32294	33471	40715	28410	29168	31250
2458	3081	2022	1638	2759	1846
121389	133280	123590	135375	148941	131874
2246349	3041039	2593147	3006928	3528298	3127206
82693	118243	105733	105662	134607	138920
24115	26079	26232	27283	37178	47778
259374	292666	263696	285611	386782	503584
127221	150390	141841	137008	130022	114740
33826	35124	39116	39870	38274	43598
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1575	5456	4524	1244	3674	6527
115164	130020	114045	126072	117402	145404
36869	46688	46917	30938	20975	48264
332628	187252	159887	162767	154878	622081
40419	41439	45715	27925	63832	37296
1190	1320	973	1228	791	1754
270222	472311	409496	359963	289842	468643
33466	40756	47034	37760	33544	34799
67034	61019	64054	62914	58549	66252
19039	6777	11830	20466	14494	17611
9680	13370	11756	12525	11643	15537
8825	10711	10111	10426	10097	12444
1297	1853	1064	1683	1895	1752
3631	4421	4124	4119	4031	3481
4513	4745	3959	3539	4004	4528
4411	4519	5176	4574	4146	4254
5720	8814	5482	6644	7322	5715
5150	5785	5579	5535	5885	6767
4939	4440	4399	5436	5071	4931
945	871	1181	1556	1412	987
194080	155959	110469	119654	93787	109447
130257	99622	96185	89781	82370	75183
5936	4029	4313	3868	3319	3886
47245	48914	36686	26959	32679	29577
4089589	4125418	3989138	4440441	3770837	4438930
662397	676111	701800	1105134	754290	746152
582792	587420	604712	673307	498575	1726567
49786	70818	68639	41778	43472	82419

811	710	695	469	959	5589
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856	1608	2364	1644	868	11000
13860	19433	13889	15071	13755	15498

C2	C23	C27	C3	QC1	QC2
546	1268	497	604	900	342
2696	2547	3381	3075	2618	2372
861	927	1528	927	753	694
230483	298183	309238	289090	269971	268427
22206	20913	19810	22325	20685	21667
1127	1715	2871	1056	1400	350
14132	13841	17975	16473	12394	12150
18583	19273	17010	17918	24771	22867
12658	11391	11715	11626	11152	11251
209646	214124	224053	236394	223638	215715
1052567	1170055	1617932	1191040	1094847	1249051
38994	43335	57575	42674	56719	62105
3983	1391	1568	1015	2616	609
51440	64207	55301	94575	64814	62947
19284	25398	16707	21167	25195	24844
2166	5055	2448	5646	4099	3045
18427	10078	14634	23892	10765	9915
141461	199484	127328	142738	122636	157842
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7452	14595	8173	9442	12520	11135
6103	6779	4700	8364	5621	8363
116452	128227	167621	107568	145330	126661
24583	22630	19507	20838	17980	18252
6136	13217	5228	6442	9126	8734
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4936	10041	5498	10492	8778	10418
125550	98346	104267	123726	98368	98507
157834	158683	159707	156547	108236	138437
28831	27138	27676	25986	33232	29255
166886	209506	273523	318837	200959	148105
290259	76274	82034	313714	176755	160726
49975	49551	47267	49884	46768	51204
130	107	301	31	3771	131
1559	1190	2089	1292	3552	4208
15467	7545	5030	7526	13582	17639
6760	3124	1803	1672	7898	7237
11429	9447	20054	20647	7613	19754
10055	5167	5541	8877	4786	6492
59371	56153	55684	62762	56861	59881
10152	5470	8310	16229	7301	8746
145631	180596	174127	211067	199681	189006
66527	53270	46425	29758	43460	58873
11894	12824	10456	13909	9741	3858
60178	71523	48681	44450	52289	53119
25877	23214	21456	25004	21061	19783
13058	10558	12436	20346	12362	12048

29994	29146	28647	26851	28743	26340
25406	24798	24659	25889	23000	25504
36338	41517	40787	35884	36267	37616
31241	31576	26878	28900	27076	27827
74941	88598	82012	75498	125327	101760
41072	28313	39245	39421	49372	38441
61580	63436	55143	66079	57139	60406
231370	214455	249360.5	253074	176961.5	158127.5
23638	26789	36370	31505	18894	11781
36801	25203	4986	82907	30209	14720
29414	37653	31648	20280	59337	67316
2790	3282	2179	2574	2371	2148
184338	220296	216167	239921	230648	236862
35023	29014	32607	37944	26694	28247
42786	194159	36246	77536	103236	100861
94191	95012	84105	117556	97423	93585
3291	3238	2816	2572	3565	2933
375003	369161	471293	475688	384972	431339
6587	6502	8391	6984	6899	6723
4320	4352	4763	4685	4067	3908
6595	3867	6541	6759	5093	4390
13728	10630	13650	17043	12456	13889
209087	80469	78043	193250	130364	135888
4211	3152	4610	4946	3391	4473
9919	7370	9296	9151	7268	7357
45735	42371	58578	34815	57017	54828
4462	3824	4458	4002	3774	4393
24822	28841	30706	32111	52997	61577
98931	101129	115373	92334	92154	92706
2794	2202	2389	2944	3158	2787
396	531	439	336	503	670
737268	88878	142974	145607	94085	99354
10252	1464	1407	1610	1698	2207
91687	42351	89221	96871	43330	38145
36048	35742	39405	39974	52837	45979
21577	21158	20815	19713	20748	20379
1586	1827	1821.5	1731.5	1947	1814
8169	9339	12827	10162	14687	14561
24141	19429	13800	27225	17752	21549
208838	190423	153827	188427	171863	168493
849072	776652	678176	781971	631711	720599
4272.5	2916.5	6337.5	3941.5	1293	3796
1409	2218	278	934	2905	3074
20236	21056	19840	18698	20900	20068
350793.5	524478	487384.5	340842.5	1166266.5	1168284
9183	7809	7976	8141	10091	8702
34163	35917	29455	38647	31047	36900
32621	32422	31004	49883	32953	30143

14676	9279	11650	14208	8345	9453
7572	11701	9666	8546	9400	10055
17749	16760	16609	22575	18387	12568
3840	5657	4434	6628	6890	7359
393571	265001	241817	375761	233619	234294
67990	42742	65939	51460	41974	49610
27767	20993	27077	29879	14697	19016
30617	34896	33682	38281	32461	41074
22916	35407	26341	32156	32384	35826
1047710	808183	1030693	1012585	776245	683844
370452	343583	249441	220380	254473	243060
583760	455612	438465	539021	488685	479018
1882	3227	1596	1774	4966	5369
19307	18104	17725	18284	17400	18131
45191	41402	41737	44582	40641	42215
42235295	38076954	32343070	40624199	43471048	41659916
236399	153625	134059	220956	209870	199508
12605248	11401348	10091866	11323807	14452816	14102130
3045822	3027346	3239772	3209934	3080599	2993207
55642	52606	48495	50340	63856	60898
798953	747819	628265	898668	902365	861359
393766	299609	253545	350401	388331	393329
5190665	3449753	3055822	5523721	3908454	4169266
83340	48290	41397	61302	49427	49245
49544	81945	23474	69952	70704	57265
29265	26686	19503	28441	25387	39115
1068	340	1434	1367	281	657
240026	258001	204053	233483	196229	244002
45350	68726	40447	52468	47622	54596
6511	3748	3134	3864	5300	4982
160938	263798	128129	132664	290042	241651
5919	4629	9069	9675	7047	4860
20674	16664	17564	20612	20836	22325
1972	8166	639	4691	5131	591
7662	6785	7761	8597	7019	9739
33939	34643	32981	38744	26303	30015
3100	3386	7261	5674	4707	4938
44015	85712	57197	63208	51392	51315
42008	23933	23756	35648	22147	30662
166474	130791	147355	129801	109095	113129
15214	16887	14155	15783	16053	14568
688866	632751	528537	664103	530316	584653
31288	96295	56080	65237	67054	72537
43875	42477	32715	43717	36731	32139
11430	6039	10444	9137	38570	20813
4508	4583	3422	2804	7395	6870
13674	20233	16101	19516	51936	32099
20655	12893	15182	17604	15939	15548

18257	34298	10087	24013	29687	19147
6998	6383	14018	7863	9861	9124
20236	23021	22218	14367	17107	18809
86813	60975	113212	135571	86333	83481
106225	107185	96712	102901	103337	113900
46257	57422	61361	58587	60049	57582
346259	369453	341538	390645	418849	471827
672263	506259	426772	591823	617069	627860
25352	25063	23413	25471	22686	21308
25211	27106	26068	24796	28044	24804
8128	7508	7966	7412	7674	8945
45739	43816	43654	45723	41233	45509
9395	8985	8842	8553	8788	8698
9785	9733	10702	9562	11074	9633
2560	1685	2301	3184	3037	2442
21828	21255	21483	22368	21331	21283
2921	2815	3110	3162	4140	3039
4447	4900	5052	4371	5950	5098
10934	10421	10535	9612	11065	10355
2768	2306	2137	2608	2472	3028
14478	12885	12663	14372	9458	11451
3812	3662	3468	2856	3008	3031
39002	37285	37682	38194	32660	36366
31283	30005	28324	30219	22967	26473
4547	4295	4311	4322	4224	4929
12956	12216	11540	13273	13233	13265
24052	22946	20192	23761	19428	20360
33547	31186	30341	35009	26091	27020
42866	40658	38704	42467	40178	42025
178935	227313	168631	203421	267674	246413
2367	2425	2199	2249	2755	1968
23827	29448	26976	27624	24085	26297
93299	71520	72969	63195	50738	49068
19305	22173	16216	16048	21793	19700
773	754	965	651	592	674
4024217	4646095	4164346	3711919	4442571	4454491
4505	3478	1208	2657	2041	2012
19614	17257	15894	21037	15350	14958
11322	5313	9567	18628	1069	8318
253072	109644	212317	457834	1718	75921
16612	7886	15196	25562	2292	3130
15304	16136	19108	20072	17034	20368
77356	55792	52730	69805	47538	55108
4364	5490	6981	4182	5963	4627
98202	72088	99580	91481	61791	46447
19152	18987	19251	21386	20780	21433
6647	1121	1291	7401	2496	2819
12895	11622	11769	12288	11908	12297

26070	24603	23235	27062	20693	21026
2968	2424	2614	2444	2811	2509
39875	34717	33594	40315	28789	32796
23968	20257	19865	24342	16683	15529
43033	40561	39822	42346	39253	39976
15929	14666	15052	14988	13931	13418
14091	13481	13481	15050	12348	12664
23558	12560	12034	17936	13403	14365
696873	524955	488178	537847	516917	553358
402181	190801	205139	341262	160650	210885
39955	28677	32813	36338	33043	32115
1516	2600	2306	1489	2316	2537
148840	158700	137944	128995	130049	128412
2620773	4091198	3265294	2659194	4894697	4618827
125696	180665	170471	101936	246667	296679
29782	53751	42283	24744	68371	68109
304982	575841	436667	274015	624667	620536
147995	134627	134475	142058	113895	106284
42275	40887	42201	35601	57974	51872
19428	18396	13526	11512	30376	33128
3725	4806	1265	3200	9305	6749
128482	114227	101268	115182	136389	141214
38689	51709	28993	22940	24945	45024
237373	202392	114585	171523	185142	253100
32318	39278	28080	39073	36578	36807
1445	674	410	1164	2582	3322
322078	283727	231971	356156	380653	374306
41479	36799	30087	35570	37954	38734
65529	58902	58364	64246	63487	73919
8977	17149	21990	7872	11062	12223
12063	13157	11023	11615	12096	11773
10315	10008	9196	9944	10770	8844
1905	1885	2068	1456	1870	2206
4170	3547	3462	3969	4469	4368
3917	3726	3929	5360	5029	4948
4698	4106	4316	4498	5185	5352
7691	6069	6468	6214	8955	8506
6167	6490	5872	6097	5664	5114
4637	4709	5726	4452	4278	3816
1007	1213	958	1336	1068	1058
114443	151962	146895	153331	136453	127231
89408	89540	88139	102236	83615	72653
4800	5078	3447	5035	4419	4319
43614	34652	39538	41508	52124	49451
3518620	5156258	4093086	4149550	3524978	4561351
533210	821079	603982	615262	560161	629341
966234	746020	288032	559842	712697	738789
61531	52400	33783	60244	52220	50024

917	777	344	381	780	846
2940	3505	790	8215	2760	203
2016	1348	664	1192	1324	1432
14396	16882	11118	14332	14812	17173

QC3	QC4	QC5	QC6	NOTES
496	779	690	827	Group B = T2D mice receiving T
1481	3177	3152	3781	Group C = T2D mice receiving C
1155	928	460	577	QC = Quality Control samples
264576	255220	267218	260239	RT, retention time
21784	21204	20687	21334	
761	2221	1056	2139	
14090	14097	14220	14748	
17721	16868	16704	15849	
10744	10374	10466	9768	
223359	199557	215711	221077	
1208247	1035838	1321277	1109618	
74409	60576	59669	68823	
2437	1828	5182	5107	
62683	69019	68018	70802	
23684	18949	20235	17355	
3128	2734	3101	2646	
13251	23716	24950	29923	
132859	148807	140048	141502	
3751	3076	4097	2948	
3946	2843	2300	2716	
10646	9157	10384	11490	
8112	7910	7067	7617	
116640	108156	92989	95598	
19627	24585	25591	26701	
10086	8608	9814	8822	
91912	91002	130112	138476	
9849	9286	9329	10344	
100966	102910	106941	108573	
144858	153136	157784	152117	
25112	26206	26285	27282	
178340	221502	267782	313022	
144345	186566	159869	160437	
51948	50064	49271	51118	
175	0	903	612	
3169	4226	3529	3706	
13245	15220	15306	16771	
7082	7338	6042	6715	
8746	15671	8316	14394	
7369	7420	7459	7093	
53537	49888	55345	55485	
4456	5122	5552	4051	
190776	137116	143117	148039	
60608	51617	62114	57685	
11577	10919	15936	14910	
54953	47485	51353	48709	
21085	18052	16879	16713	
14265	17109	14433	13903	

28464	30612	28889	28746	
24984	24802	24158	25212	
36756	34661	36437	30834	
26110	24576	27924	27419	
107811	97002	90204	90408	
40249	64379	72657	65280	
53655	52899	62242	56293	
225386	233439	347531	344589	
23021	25225	37817	41282	
19681	9543	27305	15942	
60543	62053	56322	64049	
2736	3482	3194	3727	
248075	243447	237001	236961	
28800	29374	30117	31516	
95786	113706	97411	102044	
87710	95308	107270	80258	
2948	2481	2785	3794	
382396	411051	363609	376240	
7464	7826	7174	7760	
4609	4351	5190	4333	
5710	7451	8470	9488	
15719	17848	18999	18830	
133623	117834	129025	120526	
4407	5848	6442	6757	
7701	7843	6947	8731	
39230	52176	56251	59399	
4026	3990	4344	5046	
58077	58269	57677	59052	
95468	82286	78693	84278	
2971	3092	3252	2764	
506	393	564	448	
101103	108236	118887	103324	
1766	1839	1191	2304	
26628	90872	75595	82845	
47645	45737	54592	45940	
19381	20735	20756	21327	
1906.5	1655	1743.5	1953	
13995	17302	17052	16616	
22195	26790	24324	22792	
177177	177715	183968	186514	
764921	847030	803280	821802	
1725.5	5146	2724.5	4114	
2925	3290	3364	3097	
18708	16460	17460	18986	
1144274.5	1068329.5	1024685.5	1133062.5	
9878	10561	9376	9348	
36428	39344	39930	39773	
31968	35226	35649	36278	

10987	13619	13826	13133	
8090	9359	7362	8193	
21278	22022	23174	16393	
7265	5668	7713	5819	
243539	260392	275984	266073	
54585	56663	53059	63576	
19546	26739	27813	29041	
37858	35021	34597	37517	
42064	46875	35009	34840	
1007118	927460	1378381	1265738	
258127	252435	338474	450331	
497292	502513	572266	568186	
5408	5018	5006	4411	
19508	17170	18897	18363	
45325	40446	37366	41152	
41583753	36209624	36759856	39036058	
220134	187342	177582	179689	
14261496	11907959	11350959	11212320	
3080152	2808853	2835674	2930849	
64820	61810	61896	60112	
846103	707103	650778	712258	
374291	347815	342837	352743	
4049326	3798235	3817772	3684729	
57202	61847	60971	60498	
66718	43675	73355	57074	
63158	39378	30605	35138	
104	1597	435	1220	
309913	250997	283918	244724	
61322	72353	51315	53478	
5867	4804	5597	4610	
237747	137724	134973	132865	
5062	11661	12635	9596	
24388	27021	24094	26417	
1668	2050	1066	1111	
6738	7450	8312	6584	
23172	23866	28259	30941	
3677	4753	6169	5012	
47801	51158	52018	53638	
23344	35228	29899	31680	
111730	136898	119084	128770	
16232	18096	21433	22121	
598845	805464	709613	684555	
63193	44578	38391	43345	
34415	35412	39078	34857	
36276	35967	50761	32882	
7663	7189	9105	9289	
53129	36347	69288	62422	
18113	19695	19022	19338	

23830	14760	20473	16973	
10195	11443	11622	9581	
18390	11766	8412	6450	
72083	91854	99776	138125	
112877	101705	103190	101887	
62726	44246	52398	43817	
500283	436194	373422	441866	
590886	526478	486326	524360	
21922	21131	22400	21693	
26036	29045	26933	26728	
8705	8402	8296	8278	
46049	45062	45620	44975	
8866	8432	8755	8560	
9584	10385	10212	10152	
2613	3639	2890	2523	
21128	23054	22078	22673	
3507	4069	3891	3273	
5387	5665	5093	5223	
11149	10995	12048	11066	
2400	2778	2650	2730	
10281	11243	11629	11912	
3033	2957	3691	3380	
36975	35307	37118	38740	
27696	26300	27248	28007	
4714	5103	5217	3912	
12266	12937	13338	13683	
19876	20269	21791	22324	
26594	28522	29944	30311	
39756	40937	39928	41319	
233884	196530	199280	195729	
1782	2654	2427	2253	
25271	25698	23712	24894	
40412	44685	42431	40109	
19006	12373	13841	12936	
785	562	718	613	
4564657	4503060	4760055	4498496	
2397	2553	1845	3598	
14498	14636	14630	14678	
7602	16738	25034	32928	
195576	462884	652394	840806	
6139	51941	112198	57923	
24716	75582	75323	48092	
59098	66459	68716	62192	
5114	3617	4778	4822	
83781	85113	139485	138109	
21805	20763	20864	20221	
2871	2805	3258	3043	
11233	12303	12729	12826	

21180	21632	22618	21967	
2667	3121	3224	3138	
32090	31732	34013	34610	
18888	19232	19755	20445	
39356	38310	40340	40281	
14273	14404	14880	14557	
12352	12620	13266	13050	
16636	17982	17162	18233	
575983	534847	704354	682394	
235556	348480	399230	405413	
30744	28094	31938	31695	
2869	1766	3409	2377	
128179	134891	127797	122928	
4405466	4048281	3930727	3792751	
248730	217043	184792	176937	
65533	51369	48100	45377	
579569	463952	443713	404304	
101636	158569	148927	138175	
45102	56639	58596	53606	
32309	32493	40768	41671	
5609	3809	3892	3723	
143678	137261	134140	136930	
48422	37596	28197	52408	
245783	191595	236773	228889	
37676	26005	26071	26979	
2690	3300	4118	3621	
414129	427242	443682	427499	
45652	47750	61297	67267	
61403	62213	64312	66327	
13256	13591	13850	13309	
12072	11655	14140	12416	
10809	9077	11427	10763	
1508	1632	1968	1942	
4123	3293	3915	3657	
4112	5040	4616	4664	
4679	4163	4520	4569	
8787	9352	9435	8035	
4567	5230	4795	5342	
4287	3642	3925	3767	
1103	945	1012	1345	
110242	100806	125076	123766	
92684	95548	104453	79467	
3679	4231	3963	4278	
58690	63370	70190	65835	
4113411	4635581	3731142	3977090	
689370	727916	709867	624761	
823657	775052	842126	813391	
57435	51535	54308	53119	

1407	890	897	658	
1825	0	1910	1584	
1424	1368	1176	1344	
14430	17634	17003	15139	

2D plasma
control plasma