

Annex A

Conducted Spurious Emissions Full Service Mask Filter ATSC 1.0 and ATSC 3.0

- 1_ Output Power at the Power Amplifier (PA) output
- 2_ Measurement Bandwidth Correction Factor
 (Attenuation (dB) = $10 \cdot \log(\text{BW alternate}/500)$
 MBCF (dB) = $10 \cdot \log(6000/500) = 10.79 \text{ dB}$
- 3_ Test Coupler insertion loss + test Cable Insertion loss
- 4_ Corrected Power at Mask Filter Input
 Corrected Power (dBm) = Output Power at PA output (dBm) + MBCF (dB) - Test Coupler Insertion Loss (dB) - Test Cable Insertion Loss (dB)
- 5_ Lowpass Filter Insertion Loss
- 6_ Mask Filter Insertion Loss
- 7_ Conducted Spurious Signal Level
 Final Signal Level (dBm) = Corrected Power (dBm) + Lowpass Filter Insertion Loss (dB) + Mask Filter Insertion Loss (dB)
- 9_ Reference Level
 Reference Level (dBm) = Channel Power (dBm)
- 10_ Final Conducted Spurious Signal Level
 Final Conducted Spurious Signal Level (dBm) = Conducted Spurious Signal Level (dBm) - Reference Level (dBm)

Table 1
500 - 518 MHz _ ATSC 1.0

Freq MHz	1 dBm	2 dB	3 dB	4 dBm	5 dB	6 dB	7 dB	8 dBm	9 dBm	Limit dBc	Margin dB
500	-56.97	-10.79	-49.65	-18.11	-0.08	-65.70	-83.88	53.98	-137.86	-110.40	-27.46
500.045	-57.09	-10.79	-49.84	-18.04	-0.08	-66.33	-84.46	53.98	-138.44	-109.88	-28.55
500.09	-56.83	-10.79	-49.92	-17.70	-0.09	-69.56	-87.34	53.98	-141.32	-109.37	-31.96
500.135	-56.83	-10.79	-49.90	-17.72	-0.08	-71.87	-89.67	53.98	-143.65	-108.85	-34.81
500.18	-56.54	-10.79	-49.89	-17.45	-0.07	-73.83	-91.35	53.98	-145.33	-108.33	-37.00
500.225	-57.31	-10.79	-49.89	-18.22	-0.08	-69.81	-88.11	53.98	-142.09	-107.81	-34.27
500.27	-57.85	-10.79	-49.93	-18.72	-0.07	-67.25	-86.03	53.98	-140.01	-107.30	-32.71
500.315	-57.55	-10.79	-49.91	-18.43	-0.06	-64.96	-83.46	53.98	-137.44	-106.78	-30.66
500.36	-57.31	-10.79	-49.86	-18.24	-0.08	-62.73	-81.05	53.98	-135.03	-106.26	-28.77
500.405	-57.39	-10.79	-49.85	-18.33	-0.07	-61.57	-79.97	53.98	-133.95	-105.74	-28.20
500.45	-57.27	-10.79	-49.92	-18.14	-0.09	-60.04	-78.27	53.98	-132.25	-105.23	-27.02
500.495	-56.82	-10.79	-49.90	-17.71	-0.08	-58.75	-76.54	53.98	-130.52	-104.71	-25.81
500.54	-56.51	-10.79	-49.86	-17.44	-0.07	-57.45	-74.96	53.98	-128.94	-104.19	-24.75
500.585	-57.09	-10.79	-49.87	-18.01	-0.08	-56.60	-74.68	53.98	-128.66	-103.67	-24.99
500.63	-57.27	-10.79	-49.87	-18.19	-0.08	-55.51	-73.77	53.98	-127.75	-103.16	-24.60
500.675	-57.28	-10.79	-49.92	-18.15	-0.08	-54.66	-72.90	53.98	-126.88	-102.64	-24.24
500.72	-57.15	-10.79	-49.91	-18.02	-0.08	-53.75	-71.85	53.98	-125.83	-102.12	-23.71
500.765	-56.67	-10.79	-49.98	-17.49	-0.08	-52.92	-70.49	53.98	-124.47	-101.60	-22.87

500.81	-56.71	-10.79	-49.93	-17.57	-0.09	-52.20	-69.86	53.98	-123.84	-101.09	-22.75
500.855	-56.43	-10.79	-49.93	-17.29	-0.07	-51.48	-68.84	53.98	-122.82	-100.57	-22.25
500.9	-56.49	-10.79	-49.89	-17.38	-0.09	-50.79	-68.27	53.98	-122.25	-100.05	-22.20
500.945	-56.46	-10.79	-49.94	-17.31	-0.07	-50.08	-67.46	53.98	-121.44	-99.53	-21.90
500.99	-56.80	-10.79	-49.94	-17.65	-0.08	-49.51	-67.24	53.98	-121.22	-99.01	-22.21
501.035	-56.83	-10.79	-49.92	-17.69	-0.07	-48.78	-66.55	53.98	-120.53	-98.50	-22.03
501.08	-56.92	-10.79	-49.87	-17.84	-0.05	-48.23	-66.12	53.98	-120.10	-97.98	-22.12
501.125	-57.08	-10.79	-49.85	-18.03	-0.05	-47.62	-65.70	53.98	-119.68	-97.46	-22.22
501.17	-56.54	-10.79	-49.94	-17.39	-0.06	-47.07	-64.51	53.98	-118.49	-96.94	-21.55
501.215	-56.02	-10.79	-49.91	-16.90	-0.07	-46.56	-63.53	53.98	-117.51	-96.43	-21.08
501.26	-56.35	-10.79	-49.92	-17.22	-0.08	-46.09	-63.39	53.98	-117.37	-95.91	-21.46
501.305	-56.96	-10.79	-49.95	-17.80	-0.09	-45.50	-63.40	53.98	-117.37	-95.39	-21.98
501.35	-56.98	-10.79	-49.92	-17.85	-0.08	-45.00	-62.92	53.98	-116.90	-94.87	-22.03
501.395	-56.67	-10.79	-49.90	-17.56	-0.07	-44.55	-62.17	53.98	-116.15	-94.36	-21.79
501.44	-56.25	-10.79	-49.90	-17.14	-0.08	-44.00	-61.21	53.98	-115.19	-93.84	-21.35
501.485	-56.49	-10.79	-49.81	-17.47	-0.07	-43.52	-61.05	53.98	-115.03	-93.32	-21.71
501.53	-56.37	-10.79	-49.83	-17.33	-0.08	-43.08	-60.49	53.98	-114.47	-92.81	-21.66
501.575	-56.42	-10.79	-49.90	-17.31	-0.08	-42.67	-60.06	53.98	-114.04	-92.29	-21.75
501.62	-56.38	-10.79	-49.92	-17.25	-0.07	-42.22	-59.54	53.98	-113.52	-91.77	-21.75
501.665	-55.99	-10.79	-49.84	-16.94	-0.07	-41.68	-58.69	53.98	-112.67	-91.25	-21.41
501.71	-55.83	-10.79	-49.90	-16.72	-0.07	-41.32	-58.11	53.98	-112.09	-90.74	-21.36
501.755	-56.24	-10.79	-49.84	-17.19	-0.07	-40.87	-58.13	53.98	-112.11	-90.22	-21.89
501.8	-56.37	-10.79	-49.84	-17.31	-0.06	-40.44	-57.82	53.98	-111.80	-89.70	-22.10
501.845	-56.08	-10.79	-49.85	-17.01	-0.08	-40.07	-57.17	53.98	-111.15	-89.18	-21.96
501.89	-56.49	-10.79	-49.85	-17.43	-0.08	-39.59	-57.10	53.98	-111.08	-88.67	-22.41
501.935	-56.51	-10.79	-49.90	-17.39	-0.06	-39.26	-56.71	53.98	-110.69	-88.15	-22.54
501.98	-56.08	-10.79	-49.92	-16.95	-0.08	-38.82	-55.86	53.98	-109.84	-87.63	-22.21
502.025	-55.91	-10.79	-49.93	-16.77	-0.08	-38.43	-55.27	53.98	-109.25	-87.11	-22.14
502.07	-55.57	-10.79	-49.94	-16.42	-0.08	-38.05	-54.55	53.98	-108.53	-86.60	-21.93
502.115	-55.70	-10.79	-49.89	-16.60	-0.07	-37.63	-54.30	53.98	-108.28	-86.08	-22.20
502.16	-55.55	-10.79	-49.80	-16.54	-0.06	-37.24	-53.84	53.98	-107.82	-85.56	-22.26
502.205	-55.47	-10.79	-49.90	-16.37	-0.07	-36.83	-53.26	53.98	-107.24	-85.04	-22.20
502.25	-55.51	-10.79	-49.94	-16.36	-0.07	-36.47	-52.90	53.98	-106.88	-84.53	-22.36
502.295	-56.17	-10.79	-49.94	-17.02	-0.09	-36.10	-53.20	53.98	-107.18	-84.01	-23.17
502.34	-56.31	-10.79	-49.89	-17.21	-0.08	-35.69	-52.98	53.98	-106.96	-83.49	-23.47
502.385	-55.59	-10.79	-49.90	-16.48	-0.08	-35.34	-51.90	53.98	-105.88	-82.97	-22.91
502.43	-55.66	-10.79	-49.87	-16.58	-0.07	-34.97	-51.63	53.98	-105.60	-82.45	-23.15
502.475	-55.49	-10.79	-49.93	-16.35	-0.08	-34.61	-51.03	53.98	-105.01	-81.94	-23.08
502.52	-55.27	-10.79	-49.88	-16.18	-0.08	-34.27	-50.53	53.98	-104.51	-81.42	-23.09
502.565	-55.41	-10.79	-49.87	-16.33	-0.06	-33.86	-50.25	53.98	-104.23	-80.90	-23.32

502.61	-55.85	-10.79	-49.93	-16.71	-0.07	-33.55	-50.33	53.98	-104.30	-80.38	-23.92
502.655	-55.99	-10.79	-49.91	-16.88	-0.08	-33.18	-50.13	53.98	-104.11	-79.87	-24.24
502.7	-56.01	-10.79	-49.86	-16.94	-0.07	-32.80	-49.81	53.98	-103.79	-79.35	-24.44
502.745	-55.53	-10.79	-49.91	-16.41	-0.07	-32.44	-48.92	53.98	-102.90	-78.83	-24.06
502.79	-55.78	-10.79	-49.92	-16.65	-0.05	-32.10	-48.80	53.98	-102.78	-78.31	-24.46
502.835	-55.71	-10.79	-49.94	-16.56	-0.08	-31.77	-48.41	53.98	-102.39	-77.80	-24.59
502.88	-55.27	-10.79	-49.92	-16.13	-0.07	-31.40	-47.60	53.98	-101.58	-77.28	-24.30
502.925	-55.46	-10.79	-49.83	-16.41	-0.08	-31.05	-47.54	53.98	-101.52	-76.76	-24.75
502.97	-55.85	-10.79	-49.85	-16.79	-0.06	-30.70	-47.56	53.98	-101.54	-76.24	-25.30
503.015	-55.62	-10.79	-49.88	-16.53	-0.05	-30.38	-46.96	53.98	-100.94	-75.73	-25.21
503.06	-55.76	-10.79	-49.90	-16.65	-0.06	-30.02	-46.74	53.98	-100.72	-75.21	-25.51
503.105	-55.93	-10.79	-49.81	-16.91	-0.06	-29.67	-46.64	53.98	-100.62	-74.69	-25.93
503.15	-56.29	-10.79	-49.83	-17.25	-0.06	-29.38	-46.70	53.98	-100.68	-74.18	-26.50
503.195	-55.83	-10.79	-49.88	-16.74	-0.07	-29.05	-45.86	53.98	-99.84	-73.66	-26.18
503.24	-55.51	-10.79	-49.93	-16.37	-0.07	-28.69	-45.13	53.98	-99.11	-73.14	-25.97
503.285	-55.37	-10.79	-49.94	-16.23	-0.07	-28.41	-44.71	53.98	-98.69	-72.62	-26.07
503.33	-55.18	-10.79	-49.88	-16.09	-0.07	-28.10	-44.26	53.98	-98.24	-72.11	-26.14
503.375	-55.45	-10.79	-49.91	-16.32	-0.06	-27.75	-44.13	53.98	-98.10	-71.59	-26.52
503.42	-54.98	-10.79	-49.92	-15.85	-0.07	-27.42	-43.34	53.98	-97.32	-71.07	-26.25
503.465	-54.86	-10.79	-49.88	-15.77	-0.06	-27.10	-42.94	53.98	-96.92	-70.55	-26.37
503.51	-54.92	-10.79	-49.86	-15.85	-0.07	-26.79	-42.70	53.98	-96.68	-70.04	-26.65
503.555	-55.44	-10.79	-49.86	-16.37	-0.06	-26.47	-42.90	53.98	-96.88	-69.52	-27.36
503.6	-55.79	-10.79	-49.90	-16.68	-0.08	-26.17	-42.92	53.98	-96.90	-69.00	-27.90
503.645	-54.94	-10.79	-49.92	-15.81	-0.06	-25.86	-41.73	53.98	-95.70	-68.48	-27.22
503.69	-54.80	-10.79	-49.91	-15.68	-0.07	-25.56	-41.31	53.98	-95.29	-67.97	-27.32
503.735	-55.24	-10.79	-49.85	-16.18	-0.06	-25.27	-41.52	53.98	-95.49	-67.45	-28.05
503.78	-55.10	-10.79	-49.91	-15.98	-0.07	-25.00	-41.05	53.98	-95.03	-66.93	-28.10
503.825	-55.04	-10.79	-49.88	-15.95	-0.06	-24.68	-40.70	53.98	-94.68	-66.41	-28.26
503.87	-55.33	-10.79	-49.88	-16.24	-0.06	-24.40	-40.71	53.98	-94.69	-65.89	-28.79
503.915	-55.38	-10.79	-49.93	-16.24	-0.08	-24.16	-40.48	53.98	-94.46	-65.38	-29.08
503.96	-55.14	-10.79	-49.91	-16.02	-0.07	-23.88	-39.96	53.98	-93.94	-64.86	-29.08
504.005	-55.41	-10.79	-49.91	-16.29	-0.07	-23.64	-40.00	53.98	-93.98	-64.34	-29.63
504.05	-55.54	-10.79	-49.94	-16.38	-0.07	-23.36	-39.81	53.98	-93.79	-63.82	-29.97
504.095	-55.30	-10.79	-49.89	-16.20	-0.07	-23.11	-39.38	53.98	-93.36	-63.31	-30.05
504.14	-55.30	-10.79	-49.90	-16.20	-0.07	-22.88	-39.15	53.98	-93.13	-62.79	-30.34
504.185	-54.95	-10.79	-49.86	-15.88	-0.05	-22.65	-38.58	53.98	-92.56	-62.27	-30.29
504.23	-54.78	-10.79	-49.94	-15.63	-0.07	-22.43	-38.13	53.98	-92.11	-61.75	-30.35
504.275	-55.03	-10.79	-49.83	-15.99	-0.07	-22.25	-38.31	53.98	-92.29	-61.24	-31.05
504.32	-55.17	-10.79	-49.91	-16.05	-0.07	-22.07	-38.20	53.98	-92.17	-60.72	-31.45
504.365	-54.53	-10.79	-49.91	-15.41	-0.08	-21.92	-37.42	53.98	-91.39	-60.20	-31.19

504.41	-54.75	-10.79	-49.83	-15.71	-0.06	-21.75	-37.52	53.98	-91.49	-59.68	-31.81
504.455	-55.10	-10.79	-49.86	-16.03	-0.06	-21.64	-37.74	53.98	-91.72	-59.17	-32.55
504.5	-55.28	-10.79	-49.83	-16.24	-0.05	-21.55	-37.85	53.98	-91.82	-58.65	-33.17
504.545	-55.39	-10.79	-49.91	-16.27	-0.06	-21.49	-37.82	53.98	-91.80	-58.13	-33.67
504.59	-55.25	-10.79	-49.87	-16.17	-0.07	-21.49	-37.73	53.98	-91.71	-57.62	-34.10
504.635	-54.84	-10.79	-49.92	-15.71	-0.07	-21.50	-37.28	53.98	-91.25	-57.10	-34.16
504.68	-54.85	-10.79	-49.86	-15.79	-0.06	-21.56	-37.41	53.98	-91.39	-56.58	-34.81
504.725	-54.55	-10.79	-49.80	-15.54	-0.07	-21.69	-37.30	53.98	-91.28	-56.06	-35.22
504.77	-54.41	-10.79	-49.84	-15.36	-0.07	-21.85	-37.29	53.98	-91.27	-55.55	-35.72
504.815	-54.42	-10.79	-49.85	-15.36	-0.07	-22.11	-37.54	53.98	-91.52	-55.03	-36.49
504.86	-54.15	-10.79	-49.89	-15.04	-0.06	-22.49	-37.59	53.98	-91.57	-54.51	-37.06
504.905	-54.68	-10.79	-49.84	-15.63	-0.06	-23.11	-38.80	53.98	-92.78	-53.99	-38.78
504.95	-54.90	-10.79	-49.92	-15.77	-0.07	-23.84	-39.68	53.98	-93.66	-53.48	-40.19
504.995	-54.99	-10.79	-49.77	-16.01	-0.07	-24.87	-40.95	53.98	-94.93	-52.96	-41.97
505.04	-54.84	-10.79	-49.78	-15.85	-0.07	-26.31	-42.23	53.98	-96.21	-52.44	-43.77
505.085	-55.01	-10.79	-49.90	-15.91	-0.07	-28.23	-44.20	53.98	-98.18	-51.92	-46.26
505.13	-55.03	-10.79	-49.85	-15.97	-0.06	-28.90	-44.92	53.98	-98.90	-51.41	-47.49
505.175	-55.27	-10.79	-49.80	-16.25	-0.06	-24.80	-41.11	53.98	-95.09	-50.89	-44.21
505.22	-55.12	-10.79	-49.84	-16.07	-0.07	-21.26	-37.40	53.98	-91.38	-50.37	-41.01
505.265	-55.07	-10.79	-49.86	-16.00	-0.05	-18.09	-34.14	53.98	-88.12	-49.85	-38.26
505.31	-54.95	-10.79	-49.86	-15.88	-0.06	-15.41	-31.36	53.98	-85.33	-49.34	-36.00
505.355	-55.36	-10.79	-49.88	-16.27	-0.08	-13.04	-29.40	53.98	-83.38	-48.82	-34.56
505.4	-55.49	-10.79	-49.89	-16.38	-0.08	-10.84	-27.31	53.98	-81.29	-48.30	-32.99
505.445	-55.77	-10.79	-49.82	-16.74	-0.07	-9.00	-25.81	53.98	-79.79	-47.78	-32.00
505.49	-55.59	-10.79	-49.85	-16.53	-0.08	-7.33	-23.94	53.98	-77.92	-47.26	-30.66
505.535	-55.43	-10.79	-49.90	-16.32	-0.07	-5.87	-22.27	53.98	-76.25	-47.00	-29.25
505.58	-55.36	-10.79	-49.90	-16.26	-0.07	-4.68	-21.01	53.98	-74.99	-47.00	-27.99
505.625	-54.98	-10.79	-49.90	-15.87	-0.07	-3.72	-19.66	53.98	-73.64	-47.00	-26.64
505.67	-55.00	-10.79	-49.89	-15.90	-0.08	-2.97	-18.94	53.98	-72.92	-47.00	-25.92
505.715	-54.81	-10.79	-49.83	-15.77	-0.08	-2.42	-18.26	53.98	-72.24	-47.00	-25.24
505.76	-54.75	-10.79	-49.86	-15.68	-0.07	-1.99	-17.74	53.98	-71.72	-47.00	-24.72
505.805	-54.86	-10.79	-49.85	-15.80	-0.07	-1.70	-17.58	53.98	-71.56	-47.00	-24.56
505.85	-54.04	-10.79	-49.90	-14.93	-0.07	-1.47	-16.47	53.98	-70.45	-47.00	-23.45
505.895	-48.89	-10.79	-49.90	-9.79	-0.07	-1.31	-11.17	53.98	-65.15	-47.00	-18.15
505.94	-40.24	-10.79	-49.89	-1.14	-0.08	-1.21	-2.43	53.98	-56.41	-47.00	-9.41
505.985	-32.64	-10.79	-49.85	6.42	-0.06	-1.13	5.23	53.98	-48.75	-47.00	-1.75
506	In - Band Exclusion (506 - 512 MHz)										
512											
512.015	-32.39	-10.79	-49.75	6.57	-0.07	-1.07	5.42	53.98	-48.56	-47.00	-1.56
512.06	-39.73	-10.79	-49.76	-0.76	-0.08	-1.11	-1.96	53.98	-55.94	-47.00	-8.94

512.105	-48.24	-10.79	-49.66	-9.37	-0.09	-1.17	-10.63	53.98	-64.61	-47.00	-17.61
512.15	-52.97	-10.79	-49.72	-14.04	-0.07	-1.26	-15.37	53.98	-69.34	-47.00	-22.34
512.195	-53.28	-10.79	-49.77	-14.31	-0.07	-1.39	-15.77	53.98	-69.75	-47.00	-22.75
512.24	-53.37	-10.79	-49.81	-14.34	-0.07	-1.57	-15.99	53.98	-69.97	-47.00	-22.97
512.285	-53.97	-10.79	-49.76	-15.01	-0.08	-1.82	-16.90	53.98	-70.88	-47.00	-23.88
512.33	-54.55	-10.79	-49.75	-15.59	-0.08	-2.18	-17.86	53.98	-71.84	-47.00	-24.84
512.375	-54.80	-10.79	-49.75	-15.84	-0.09	-2.77	-18.70	53.98	-72.68	-47.00	-25.68
512.42	-54.23	-10.79	-49.74	-15.28	-0.09	-3.50	-18.87	53.98	-72.85	-47.00	-25.85
512.465	-54.76	-10.79	-49.73	-15.81	-0.09	-4.55	-20.45	53.98	-74.43	-47.00	-27.43
512.51	-54.51	-10.79	-49.76	-15.54	-0.09	-5.82	-21.45	53.98	-75.43	-47.26	-28.16
512.555	-54.32	-10.79	-49.82	-15.29	-0.09	-7.44	-22.81	53.98	-76.79	-47.78	-29.01
512.6	-54.47	-10.79	-49.77	-15.48	-0.07	-9.25	-24.80	53.98	-78.78	-48.30	-30.48
512.645	-54.87	-10.79	-49.72	-15.94	-0.07	-11.46	-27.47	53.98	-81.45	-48.82	-32.64
512.69	-55.20	-10.79	-49.76	-16.23	-0.09	-13.86	-30.19	53.98	-84.17	-49.34	-34.83
512.735	-54.45	-10.79	-49.76	-15.48	-0.08	-16.64	-32.20	53.98	-86.18	-49.85	-36.33
512.78	-54.45	-10.79	-49.76	-15.48	-0.08	-19.67	-35.23	53.98	-89.21	-50.37	-38.84
512.825	-54.67	-10.79	-49.73	-15.73	-0.09	-23.32	-39.13	53.98	-93.11	-50.89	-42.22
512.87	-54.97	-10.79	-49.72	-16.04	-0.07	-27.47	-43.57	53.98	-97.55	-51.41	-46.15
512.915	-54.90	-10.79	-49.70	-16.00	-0.07	-28.72	-44.79	53.98	-98.77	-51.92	-46.84
512.96	-55.01	-10.79	-49.75	-16.05	-0.09	-26.61	-42.75	53.98	-96.73	-52.44	-44.29
513.005	-54.99	-10.79	-49.75	-16.02	-0.09	-25.06	-41.17	53.98	-95.15	-52.96	-42.19
513.05	-55.40	-10.79	-49.70	-16.48	-0.08	-23.97	-40.54	53.98	-94.51	-53.47	-41.04
513.095	-55.79	-10.79	-49.71	-16.87	-0.09	-23.16	-40.12	53.98	-94.10	-53.99	-40.11
513.14	-55.71	-10.79	-49.76	-16.74	-0.08	-22.61	-39.43	53.98	-93.41	-54.51	-38.90
513.185	-55.40	-10.79	-49.79	-16.40	-0.08	-22.20	-38.68	53.98	-92.66	-55.03	-37.64
513.23	-54.96	-10.79	-49.78	-15.97	-0.08	-21.95	-38.00	53.98	-91.98	-55.55	-36.43
513.275	-54.94	-10.79	-49.78	-15.95	-0.09	-21.78	-37.82	53.98	-91.80	-56.06	-35.74
513.32	-55.03	-10.79	-49.74	-16.08	-0.10	-21.72	-37.90	53.98	-91.88	-56.58	-35.30
513.365	-54.80	-10.79	-49.74	-15.85	-0.07	-21.64	-37.56	53.98	-91.54	-57.10	-34.45
513.41	-54.67	-10.79	-49.76	-15.71	-0.08	-21.65	-37.44	53.98	-91.42	-57.61	-33.81
513.455	-54.60	-10.79	-49.74	-15.65	-0.08	-21.69	-37.42	53.98	-91.40	-58.13	-33.26
513.5	-54.90	-10.79	-49.76	-15.93	-0.08	-21.75	-37.77	53.98	-91.74	-58.65	-33.09
513.545	-54.77	-10.79	-49.77	-15.79	-0.09	-21.89	-37.76	53.98	-91.74	-59.17	-32.57
513.59	-55.40	-10.79	-49.83	-16.36	-0.10	-22.00	-38.46	53.98	-92.44	-59.69	-32.75
513.635	-55.65	-10.79	-49.72	-16.73	-0.08	-22.14	-38.95	53.98	-92.92	-60.20	-32.72
513.68	-55.41	-10.79	-49.79	-16.41	-0.10	-22.34	-38.85	53.98	-92.83	-60.72	-32.11
513.725	-55.16	-10.79	-49.73	-16.22	-0.10	-22.53	-38.84	53.98	-92.82	-61.24	-31.58
513.77	-55.54	-10.79	-49.75	-16.58	-0.08	-22.73	-39.39	53.98	-93.37	-61.75	-31.61
513.815	-55.43	-10.79	-49.79	-16.43	-0.09	-22.97	-39.50	53.98	-93.48	-62.27	-31.21
513.86	-55.04	-10.79	-49.77	-16.06	-0.09	-23.23	-39.38	53.98	-93.36	-62.79	-30.57

513.905	-54.85	-10.79	-49.74	-15.90	-0.09	-23.41	-39.40	53.98	-93.38	-63.31	-30.07
513.95	-55.05	-10.79	-49.67	-16.17	-0.08	-23.70	-39.95	53.98	-93.93	-63.83	-30.11
513.995	-55.53	-10.79	-49.71	-16.61	-0.07	-23.95	-40.64	53.98	-94.62	-64.34	-30.27
514.04	-55.59	-10.79	-49.74	-16.64	-0.08	-24.23	-40.95	53.98	-94.93	-64.86	-30.07
514.085	-55.54	-10.79	-49.77	-16.56	-0.07	-24.50	-41.13	53.98	-95.11	-65.38	-29.73
514.13	-55.83	-10.79	-49.80	-16.83	-0.08	-24.80	-41.70	53.98	-95.68	-65.89	-29.79
514.175	-55.40	-10.79	-49.75	-16.44	-0.09	-25.09	-41.62	53.98	-95.60	-66.41	-29.19
514.22	-55.23	-10.79	-49.74	-16.28	-0.09	-25.38	-41.75	53.98	-95.73	-66.93	-28.80
514.265	-55.84	-10.79	-49.73	-16.91	-0.08	-25.68	-42.67	53.98	-96.65	-67.45	-29.20
514.31	-56.06	-10.79	-49.79	-17.05	-0.07	-25.96	-43.08	53.98	-97.06	-67.96	-29.10
514.355	-56.06	-10.79	-49.78	-17.06	-0.09	-26.31	-43.46	53.98	-97.44	-68.48	-28.95
514.4	-56.06	-10.79	-49.77	-17.08	-0.10	-26.61	-43.78	53.98	-97.76	-69.00	-28.76
514.445	-55.64	-10.79	-49.79	-16.64	-0.10	-26.93	-43.66	53.98	-97.64	-69.52	-28.13
514.49	-55.20	-10.79	-49.74	-16.24	-0.08	-27.23	-43.56	53.98	-97.54	-70.04	-27.50
514.535	-55.40	-10.79	-49.73	-16.46	-0.08	-27.53	-44.06	53.98	-98.04	-70.55	-27.49
514.58	-55.19	-10.79	-49.80	-16.17	-0.11	-27.88	-44.16	53.98	-98.14	-71.07	-27.07
514.625	-55.14	-10.79	-49.81	-16.12	-0.09	-28.20	-44.42	53.98	-98.40	-71.59	-26.81
514.67	-55.30	-10.79	-49.79	-16.29	-0.07	-28.53	-44.90	53.98	-98.88	-72.10	-26.77
514.715	-55.74	-10.79	-49.77	-16.77	-0.08	-28.85	-45.70	53.98	-99.68	-72.62	-27.05
514.76	-55.31	-10.79	-49.77	-16.33	-0.09	-29.16	-45.58	53.98	-99.56	-73.14	-26.42
514.805	-55.08	-10.79	-49.80	-16.07	-0.09	-29.49	-45.65	53.98	-99.63	-73.66	-25.97
514.85	-55.56	-10.79	-49.80	-16.55	-0.08	-29.86	-46.49	53.98	-100.47	-74.18	-26.29
514.895	-55.47	-10.79	-49.79	-16.48	-0.09	-30.17	-46.73	53.98	-100.71	-74.69	-26.02
514.94	-55.40	-10.79	-49.79	-16.41	-0.07	-30.48	-46.96	53.98	-100.94	-75.21	-25.73
514.985	-55.37	-10.79	-49.79	-16.37	-0.08	-30.85	-47.29	53.98	-101.27	-75.73	-25.55
515.03	-55.54	-10.79	-49.74	-16.59	-0.07	-31.19	-47.86	53.98	-101.84	-76.24	-25.59
515.075	-55.46	-10.79	-49.79	-16.45	-0.07	-31.51	-48.03	53.98	-102.01	-76.76	-25.25
515.12	-55.31	-10.79	-49.79	-16.31	-0.08	-31.89	-48.27	53.98	-102.25	-77.28	-24.97
515.165	-55.37	-10.79	-49.81	-16.35	-0.08	-32.20	-48.63	53.98	-102.61	-77.80	-24.81
515.21	-56.03	-10.79	-49.77	-17.05	-0.08	-32.57	-49.70	53.98	-103.68	-78.32	-25.36
515.255	-55.69	-10.79	-49.75	-16.73	-0.07	-32.89	-49.69	53.98	-103.67	-78.83	-24.84
515.3	-55.88	-10.79	-49.81	-16.86	-0.08	-33.24	-50.18	53.98	-104.16	-79.35	-24.81
515.345	-55.69	-10.79	-49.82	-16.67	-0.08	-33.64	-50.39	53.98	-104.36	-79.87	-24.50
515.39	-55.63	-10.79	-49.77	-16.65	-0.09	-33.97	-50.70	53.98	-104.68	-80.38	-24.29
515.435	-55.44	-10.79	-49.82	-16.41	-0.09	-34.33	-50.83	53.98	-104.81	-80.90	-23.91
515.48	-55.67	-10.79	-49.77	-16.69	-0.08	-34.67	-51.44	53.98	-105.42	-81.42	-24.00
515.525	-55.24	-10.79	-49.79	-16.25	-0.07	-35.04	-51.36	53.98	-105.34	-81.94	-23.40
515.57	-55.57	-10.79	-49.77	-16.59	-0.07	-35.40	-52.06	53.98	-106.04	-82.46	-23.59
515.615	-55.71	-10.79	-49.73	-16.77	-0.08	-35.78	-52.63	53.98	-106.61	-82.97	-23.64
515.66	-55.72	-10.79	-49.71	-16.79	-0.09	-36.14	-53.03	53.98	-107.01	-83.49	-23.52

515.705	-55.97	-10.79	-49.79	-16.98	-0.11	-36.55	-53.63	53.98	-107.61	-84.01	-23.60
515.75	-55.94	-10.79	-49.78	-16.94	-0.08	-36.88	-53.90	53.98	-107.88	-84.53	-23.35
515.795	-55.53	-10.79	-49.79	-16.54	-0.09	-37.23	-53.85	53.98	-107.83	-85.04	-22.79
515.84	-55.22	-10.79	-49.78	-16.23	-0.08	-37.62	-53.93	53.98	-107.91	-85.56	-22.35
515.885	-55.35	-10.79	-49.78	-16.36	-0.07	-37.99	-54.42	53.98	-108.40	-86.08	-22.32
515.93	-55.19	-10.79	-49.78	-16.20	-0.07	-38.35	-54.62	53.98	-108.60	-86.59	-22.01
515.975	-55.66	-10.79	-49.81	-16.65	-0.09	-38.80	-55.53	53.98	-109.51	-87.11	-22.40
516.02	-55.33	-10.79	-49.77	-16.35	-0.09	-39.19	-55.62	53.98	-109.60	-87.63	-21.97
516.065	-55.42	-10.79	-49.76	-16.45	-0.09	-39.56	-56.11	53.98	-110.09	-88.15	-21.94
516.11	-55.56	-10.79	-49.78	-16.58	-0.09	-39.96	-56.63	53.98	-110.61	-88.67	-21.94
516.155	-55.71	-10.79	-49.78	-16.72	-0.08	-40.34	-57.15	53.98	-111.13	-89.18	-21.95
516.2	-56.04	-10.79	-49.76	-17.07	-0.09	-40.78	-57.93	53.98	-111.91	-89.70	-22.21
516.245	-56.19	-10.79	-49.84	-17.14	-0.11	-41.22	-58.47	53.98	-112.45	-90.22	-22.23
516.29	-56.68	-10.79	-49.80	-17.68	-0.09	-41.61	-59.38	53.98	-113.36	-90.73	-22.63
516.335	-56.33	-10.79	-49.80	-17.33	-0.07	-42.04	-59.44	53.98	-113.42	-91.25	-22.17
516.38	-55.77	-10.79	-49.77	-16.79	-0.08	-42.46	-59.32	53.98	-113.30	-91.77	-21.53
516.425	-55.94	-10.79	-49.79	-16.94	-0.08	-42.91	-59.93	53.98	-113.91	-92.29	-21.62
516.47	-56.17	-10.79	-49.74	-17.23	-0.07	-43.36	-60.65	53.98	-114.63	-92.81	-21.83
516.515	-56.05	-10.79	-49.66	-17.17	-0.07	-43.78	-61.02	53.98	-115.00	-93.32	-21.68
516.56	-56.35	-10.79	-49.78	-17.36	-0.08	-44.24	-61.68	53.98	-115.66	-93.84	-21.82
516.605	-55.84	-10.79	-49.77	-16.86	-0.09	-44.73	-61.67	53.98	-115.65	-94.36	-21.29
516.65	-56.24	-10.79	-49.85	-17.18	-0.07	-45.13	-62.38	53.98	-116.36	-94.87	-21.48
516.695	-55.90	-10.79	-49.82	-16.87	-0.08	-45.65	-62.60	53.98	-116.58	-95.39	-21.18
516.74	-56.23	-10.79	-49.71	-17.31	-0.09	-46.15	-63.55	53.98	-117.53	-95.91	-21.62
516.785	-56.07	-10.79	-49.82	-17.04	-0.07	-46.65	-63.75	53.98	-117.73	-96.43	-21.30
516.83	-56.03	-10.79	-49.77	-17.05	-0.07	-47.13	-64.26	53.98	-118.24	-96.95	-21.29
516.875	-55.86	-10.79	-49.74	-16.91	-0.09	-47.60	-64.60	53.98	-118.58	-97.46	-21.12
516.92	-55.88	-10.79	-49.73	-16.94	-0.08	-48.18	-65.20	53.98	-119.18	-97.98	-21.20
516.965	-56.33	-10.79	-49.79	-17.34	-0.08	-48.73	-66.14	53.98	-120.12	-98.50	-21.62
517.01	-56.61	-10.79	-49.82	-17.58	-0.09	-49.37	-67.05	53.98	-121.03	-99.01	-22.01
517.055	-56.58	-10.79	-49.80	-17.57	-0.10	-49.91	-67.58	53.98	-121.56	-99.53	-22.02
517.1	-56.23	-10.79	-49.82	-17.20	-0.08	-50.60	-67.88	53.98	-121.86	-100.05	-21.81
517.145	-56.54	-10.79	-49.83	-17.51	-0.09	-51.16	-68.76	53.98	-122.74	-100.57	-22.17
517.19	-56.66	-10.79	-49.79	-17.66	-0.08	-51.77	-69.51	53.98	-123.49	-101.09	-22.41
517.235	-56.37	-10.79	-49.79	-17.36	-0.07	-52.58	-70.02	53.98	-124.00	-101.60	-22.40
517.28	-56.63	-10.79	-49.80	-17.62	-0.07	-53.21	-70.91	53.98	-124.89	-102.12	-22.77
517.325	-56.92	-10.79	-49.77	-17.94	-0.08	-53.94	-71.96	53.98	-125.94	-102.64	-23.30
517.37	-57.04	-10.79	-49.74	-18.09	-0.10	-54.84	-73.02	53.98	-127.00	-103.16	-23.84
517.415	-56.89	-10.79	-49.73	-17.95	-0.07	-55.59	-73.61	53.98	-127.59	-103.67	-23.92
517.46	-56.49	-10.79	-49.78	-17.50	-0.08	-56.61	-74.18	53.98	-128.16	-104.19	-23.97

517.505	-56.49	-10.79	-49.79	-17.49	-0.09	-57.52	-75.11	53.98	-129.09	-104.71	-24.38
517.55	-56.15	-10.79	-49.81	-17.13	-0.10	-58.33	-75.56	53.98	-129.54	-105.22	-24.32
517.595	-56.22	-10.79	-49.83	-17.18	-0.09	-59.47	-76.74	53.98	-130.71	-105.74	-24.97
517.64	-56.83	-10.79	-49.78	-17.84	-0.08	-60.93	-78.85	53.98	-132.83	-106.26	-26.57
517.685	-56.69	-10.79	-49.79	-17.69	-0.09	-61.95	-79.73	53.98	-133.70	-106.78	-26.93
517.73	-56.42	-10.79	-49.77	-17.44	-0.08	-63.64	-81.16	53.98	-135.14	-107.30	-27.85
517.775	-56.74	-10.79	-49.73	-17.80	-0.08	-65.46	-83.35	53.98	-137.33	-107.81	-29.51
517.82	-56.70	-10.79	-49.78	-17.71	-0.09	-67.70	-85.50	53.98	-139.48	-108.33	-31.15
517.865	-56.54	-10.79	-49.79	-17.54	-0.09	-69.07	-86.70	53.98	-140.68	-108.85	-31.83
517.91	-56.88	-10.79	-49.78	-17.89	-0.11	-71.69	-89.68	53.98	-143.66	-109.37	-34.30
517.955	-56.62	-10.79	-49.77	-17.64	-0.08	-72.55	-90.28	53.98	-144.26	-109.88	-34.38
518	-56.66	-10.79	-49.78	-17.68	-0.10	-70.49	-88.27	53.98	-142.25	-110.40	-31.85

Table 2
50 – 1000 MHz_ ATSC 1.0

Freq	1	2	3	4	5	6	7	8	9	Limit	Margin
MHz	dBm	dB	dB	dBm	dB	dB	dB	dBm	dBm	dBc	dB
50	-86.84	-10.79	-75.38	-22.26	-0.64	-80.07	-102.96	53.98	-156.94	-110.00	-46.94
52.375	-87.17	-10.79	-76.79	-21.18	-0.63	-81.35	-103.15	53.98	-157.13	-110.00	-47.13
54.75	-86.68	-10.79	-75.47	-22.01	-0.58	-81.07	-103.65	53.98	-157.63	-110.00	-47.63
57.125	-87.00	-10.79	-74.85	-22.94	-0.57	-81.81	-105.31	53.98	-159.29	-110.00	-49.29
59.5	-86.96	-10.79	-75.80	-21.95	-0.62	-81.73	-104.30	53.98	-158.28	-110.00	-48.28
61.875	-86.75	-10.79	-73.98	-23.56	-0.66	-81.73	-105.94	53.98	-159.92	-110.00	-49.92
64.25	-86.55	-10.79	-74.16	-23.18	-0.76	-81.67	-105.61	53.98	-159.59	-110.00	-49.59
66.625	-86.32	-10.79	-74.46	-22.65	-0.78	-81.76	-105.19	53.98	-159.17	-110.00	-49.17
69	-86.42	-10.79	-73.41	-23.80	-0.88	-82.03	-106.71	53.98	-160.69	-110.00	-50.69
71.375	-86.55	-10.79	-73.49	-23.85	-1.05	-79.97	-104.87	53.98	-158.85	-110.00	-48.85
73.75	-87.15	-10.79	-72.16	-25.78	-1.10	-82.21	-109.09	53.98	-163.06	-110.00	-53.06
76.125	-86.95	-10.79	-71.53	-26.22	-1.21	-81.35	-108.78	53.98	-162.76	-110.00	-52.76
78.5	-86.80	-10.79	-71.28	-26.32	-1.24	-81.72	-109.27	53.98	-163.25	-110.00	-53.25
80.875	-86.99	-10.79	-71.16	-26.62	-1.29	-81.63	-109.54	53.98	-163.52	-110.00	-53.52
83.25	-87.56	-10.79	-70.57	-27.78	-1.23	-80.79	-109.80	53.98	-163.78	-110.00	-53.78
85.625	-87.36	-10.79	-70.40	-27.75	-1.16	-81.94	-110.85	53.98	-164.83	-110.00	-54.83
88	-87.34	-10.79	-69.62	-28.51	-1.06	-81.92	-111.49	53.98	-165.47	-110.00	-55.47
90.375	-87.09	-10.79	-69.58	-28.31	-1.03	-81.90	-111.23	53.98	-165.21	-110.00	-55.21
92.75	-87.23	-10.79	-69.67	-28.35	-1.01	-81.79	-111.14	53.98	-165.12	-110.00	-55.12
95.125	-87.40	-10.79	-69.34	-28.85	-0.99	-82.03	-111.87	53.98	-165.85	-110.00	-55.85
97.5	-86.97	-10.79	-68.74	-29.01	-1.04	-81.79	-111.84	53.98	-165.82	-110.00	-55.82
99.875	-87.37	-10.79	-68.60	-29.56	-1.07	-81.68	-112.31	53.98	-166.29	-110.00	-56.29

102.25	-87.14	-10.79	-68.21	-29.72	-1.09	-80.91	-111.72	53.98	-165.70	-110.00	-55.70
104.625	-87.05	-10.79	-67.97	-29.87	-1.17	-80.94	-111.97	53.98	-165.95	-110.00	-55.95
107	-87.09	-10.79	-67.24	-30.64	-1.25	-81.72	-113.61	53.98	-167.59	-110.00	-57.59
109.375	-86.05	-10.79	-67.25	-29.59	-1.21	-81.20	-112.00	53.98	-165.98	-110.00	-55.98
111.75	-85.56	-10.79	-66.85	-29.50	-1.21	-81.74	-112.45	53.98	-166.43	-110.00	-56.43
114.125	-85.18	-10.79	-66.77	-29.20	-1.17	-80.83	-111.20	53.98	-165.18	-110.00	-55.18
116.5	-84.80	-10.79	-66.48	-29.12	-1.07	-81.22	-111.41	53.98	-165.38	-110.00	-55.38
118.875	-84.98	-10.79	-65.97	-29.80	-1.01	-80.75	-111.56	53.98	-165.54	-110.00	-55.54
121.25	-85.24	-10.79	-65.83	-30.19	-0.80	-80.89	-111.89	53.98	-165.87	-110.00	-55.87
123.625	-86.19	-10.79	-65.47	-31.51	-0.78	-81.35	-113.64	53.98	-167.62	-110.00	-57.62
126	-86.53	-10.79	-65.36	-31.96	-0.70	-80.78	-113.44	53.98	-167.42	-110.00	-57.42
128.375	-86.60	-10.79	-64.48	-32.91	-0.66	-81.70	-115.28	53.98	-169.26	-110.00	-59.26
130.75	-87.43	-10.79	-64.84	-33.39	-0.70	-81.60	-115.69	53.98	-169.67	-110.00	-59.67
133.125	-87.09	-10.79	-64.22	-33.66	-0.69	-81.65	-116.00	53.98	-169.98	-110.00	-59.98
135.5	-87.52	-10.79	-64.15	-34.15	-0.76	-80.87	-115.79	53.98	-169.77	-110.00	-59.77
137.875	-87.81	-10.79	-63.98	-34.62	-0.76	-81.73	-117.10	53.98	-171.08	-110.00	-61.08
140.25	-87.81	-10.79	-63.40	-35.21	-0.75	-80.90	-116.85	53.98	-170.83	-110.00	-60.83
142.625	-87.38	-10.79	-63.16	-35.01	-0.69	-81.88	-117.58	53.98	-171.56	-110.00	-61.56
145	-87.71	-10.79	-63.21	-35.30	-0.62	-81.74	-117.66	53.98	-171.64	-110.00	-61.64
147.375	-88.27	-10.79	-62.99	-36.07	-0.61	-81.63	-118.31	53.98	-172.29	-110.00	-62.29
149.75	-87.88	-10.79	-62.69	-35.98	-0.45	-81.96	-118.39	53.98	-172.37	-110.00	-62.37
152.125	-87.72	-10.79	-62.50	-36.01	-0.39	-81.16	-117.56	53.98	-171.54	-110.00	-61.54
154.5	-87.30	-10.79	-62.38	-35.71	-0.32	-81.06	-117.09	53.98	-171.07	-110.00	-61.07
156.875	-87.65	-10.79	-62.06	-36.37	-0.21	-80.98	-117.56	53.98	-171.54	-110.00	-61.54
159.25	-87.93	-10.79	-61.93	-36.78	-0.18	-81.28	-118.25	53.98	-172.23	-110.00	-62.23
161.625	-87.92	-10.79	-61.52	-37.19	-0.14	-81.15	-118.48	53.98	-172.46	-110.00	-62.46
164	-87.98	-10.79	-61.48	-37.29	-0.11	-81.24	-118.64	53.98	-172.62	-110.00	-62.62
166.375	-87.16	-10.79	-61.18	-36.77	-0.11	-81.14	-118.02	53.98	-172.00	-110.00	-62.00
168.75	-87.56	-10.79	-61.05	-37.30	-0.11	-81.47	-118.88	53.98	-172.86	-110.00	-62.86
171.125	-87.41	-10.79	-60.95	-37.24	-0.17	-81.56	-118.98	53.98	-172.96	-110.00	-62.96
173.5	-87.64	-10.79	-60.81	-37.62	-0.15	-81.20	-118.96	53.98	-172.94	-110.00	-62.94
175.875	-87.59	-10.79	-60.60	-37.78	-0.16	-81.11	-119.05	53.98	-173.03	-110.00	-63.03
178.25	-87.86	-10.79	-60.52	-38.13	-0.14	-81.61	-119.88	53.98	-173.86	-110.00	-63.86
180.625	-87.57	-10.79	-60.25	-38.10	-0.09	-81.48	-119.67	53.98	-173.65	-110.00	-63.65
183	-88.26	-10.79	-60.01	-39.04	-0.09	-81.34	-120.47	53.98	-174.45	-110.00	-64.45
185.375	-87.24	-10.79	-59.93	-38.11	-0.04	-80.93	-119.08	53.98	-173.06	-110.00	-63.06
187.75	-87.62	-10.79	-59.73	-38.68	-0.08	-81.49	-120.25	53.98	-174.23	-110.00	-64.23
190.125	-87.79	-10.79	-59.38	-39.20	-0.12	-81.53	-120.85	53.98	-174.83	-110.00	-64.83
192.5	-88.49	-10.79	-59.51	-39.77	-0.12	-80.87	-120.75	53.98	-174.73	-110.00	-64.73
194.875	-87.48	-10.79	-59.00	-39.27	-0.19	-81.42	-120.87	53.98	-174.85	-110.00	-64.85

197.25	-87.73	-10.79	-58.99	-39.53	-0.15	-80.86	-120.54	53.98	-174.52	-110.00	-64.52
199.625	-87.81	-10.79	-58.76	-39.84	-0.22	-80.96	-121.01	53.98	-174.99	-110.00	-64.99
202	-87.08	-10.79	-58.84	-39.03	-0.20	-80.93	-120.17	53.98	-174.15	-110.00	-64.15
204.375	-86.77	-10.79	-58.61	-38.95	-0.15	-80.51	-119.61	53.98	-173.59	-110.00	-63.59
206.75	-86.43	-10.79	-58.45	-38.77	-0.18	-80.46	-119.42	53.98	-173.40	-110.00	-63.40
209.125	-86.23	-10.79	-58.14	-38.88	-0.13	-80.67	-119.67	53.98	-173.65	-110.00	-63.65
211.5	-86.21	-10.79	-58.06	-38.94	-0.15	-81.05	-120.15	53.98	-174.12	-110.00	-64.12
213.875	-85.24	-10.79	-57.95	-38.08	-0.16	-80.49	-118.72	53.98	-172.70	-110.00	-62.70
216.25	-85.00	-10.79	-57.82	-37.97	-0.15	-80.52	-118.64	53.98	-172.62	-110.00	-62.62
218.625	-84.65	-10.79	-57.71	-37.73	-0.29	-80.65	-118.67	53.98	-172.65	-110.00	-62.65
221	-84.52	-10.79	-57.55	-37.76	-0.32	-81.07	-119.15	53.98	-173.13	-110.00	-63.13
223.375	-84.28	-10.79	-57.51	-37.55	-0.40	-81.23	-119.19	53.98	-173.17	-110.00	-63.17
225.75	-84.04	-10.79	-57.35	-37.47	-0.61	-81.14	-119.22	53.98	-173.20	-110.00	-63.20
228.125	-83.77	-10.79	-57.24	-37.33	-0.70	-81.01	-119.04	53.98	-173.02	-110.00	-63.02
230.5	-83.64	-10.79	-57.10	-37.32	-0.88	-81.39	-119.60	53.98	-173.58	-110.00	-63.58
232.875	-83.67	-10.79	-56.93	-37.53	-0.91	-80.78	-119.22	53.98	-173.20	-110.00	-63.20
235.25	-83.43	-10.79	-56.66	-37.56	-0.99	-81.35	-119.89	53.98	-173.87	-110.00	-63.87
237.625	-83.25	-10.79	-56.60	-37.43	-0.94	-79.81	-118.19	53.98	-172.17	-110.00	-62.17
240	-83.14	-10.79	-56.56	-37.37	-0.92	-81.13	-119.42	53.98	-173.39	-110.00	-63.39
242.375	-82.92	-10.79	-56.39	-37.32	-0.89	-80.24	-118.45	53.98	-172.43	-110.00	-62.43
244.75	-82.78	-10.79	-56.11	-37.46	-0.82	-80.38	-118.67	53.98	-172.65	-110.00	-62.65
247.125	-82.43	-10.79	-56.03	-37.19	-0.75	-80.36	-118.30	53.98	-172.28	-110.00	-62.28
249.5	-82.52	-10.79	-56.00	-37.31	-0.69	-80.66	-118.66	53.98	-172.64	-110.00	-62.64
251.875	-82.33	-10.79	-55.80	-37.32	-0.71	-81.00	-119.04	53.98	-173.01	-110.00	-63.01
254.25	-82.14	-10.79	-55.62	-37.31	-0.74	-80.81	-118.86	53.98	-172.84	-110.00	-62.84
256.625	-81.97	-10.79	-55.51	-37.25	-0.79	-81.34	-119.39	53.98	-173.37	-110.00	-63.37
259	-81.95	-10.79	-55.31	-37.43	-0.94	-80.13	-118.49	53.98	-172.47	-110.00	-62.47
261.375	-81.93	-10.79	-55.19	-37.53	-1.05	-79.90	-118.48	53.98	-172.46	-110.00	-62.46
263.75	-81.65	-10.79	-55.11	-37.33	-1.15	-80.54	-119.01	53.98	-172.99	-110.00	-62.99
266.125	-81.77	-10.79	-55.07	-37.49	-1.38	-79.52	-118.39	53.98	-172.37	-110.00	-62.37
268.5	-81.66	-10.79	-54.97	-37.48	-1.55	-81.31	-120.34	53.98	-174.32	-110.00	-64.32
270.875	-81.44	-10.79	-54.94	-37.29	-1.65	-80.89	-119.83	53.98	-173.81	-110.00	-63.81
273.25	-81.39	-10.79	-54.75	-37.43	-1.64	-80.92	-120.00	53.98	-173.98	-110.00	-63.98
275.625	-81.42	-10.79	-54.69	-37.52	-1.61	-80.49	-119.62	53.98	-173.60	-110.00	-63.60
278	-81.16	-10.79	-54.50	-37.45	-1.52	-78.54	-117.52	53.98	-171.50	-110.00	-61.50
280.375	-80.99	-10.79	-54.42	-37.36	-1.36	-79.89	-118.61	53.98	-172.59	-110.00	-62.59
282.75	-80.90	-10.79	-54.43	-37.27	-1.20	-80.81	-119.28	53.98	-173.26	-110.00	-63.26
285.125	-80.83	-10.79	-54.38	-37.24	-1.17	-81.03	-119.44	53.98	-173.42	-110.00	-63.42
287.5	-80.49	-10.79	-54.21	-37.07	-1.06	-79.59	-117.72	53.98	-171.70	-110.00	-61.70
289.875	-80.39	-10.79	-54.19	-36.99	-1.06	-79.11	-117.16	53.98	-171.14	-110.00	-61.14

292.25	-80.24	-10.79	-53.97	-37.06	-1.10	-80.12	-118.29	53.98	-172.27	-110.00	-62.27
294.625	-80.06	-10.79	-53.97	-36.88	-1.25	-80.61	-118.74	53.98	-172.71	-110.00	-62.71
297	-79.90	-10.79	-53.92	-36.77	-1.32	-78.26	-116.35	53.98	-170.32	-110.00	-60.32
299.375	-79.70	-10.79	-53.87	-36.62	-1.36	-81.21	-119.18	53.98	-173.16	-110.00	-63.16
301.75	-79.73	-10.79	-53.72	-36.81	-1.50	-80.95	-119.26	53.98	-173.24	-110.00	-63.24
304.125	-79.86	-10.79	-53.61	-37.04	-1.53	-79.20	-117.77	53.98	-171.75	-110.00	-61.75
306.5	-79.77	-10.79	-53.57	-36.98	-1.60	-79.26	-117.84	53.98	-171.82	-110.00	-61.82
308.875	-79.90	-10.79	-53.34	-37.36	-1.55	-80.15	-119.06	53.98	-173.04	-110.00	-63.04
311.25	-79.93	-10.79	-53.34	-37.38	-1.40	-79.73	-118.52	53.98	-172.49	-110.00	-62.49
313.625	-80.01	-10.79	-53.41	-37.38	-1.32	-80.43	-119.14	53.98	-173.12	-110.00	-63.12
316	-80.19	-10.79	-53.15	-37.83	-1.14	-80.45	-119.41	53.98	-173.39	-110.00	-63.39
318.375	-80.15	-10.79	-53.19	-37.76	-1.01	-80.75	-119.52	53.98	-173.50	-110.00	-63.50
320.75	-80.13	-10.79	-53.09	-37.82	-0.94	-80.09	-118.86	53.98	-172.84	-110.00	-62.84
323.125	-80.24	-10.79	-53.11	-37.91	-0.95	-80.05	-118.92	53.98	-172.90	-110.00	-62.90
325.5	-80.05	-10.79	-52.99	-37.85	-0.97	-79.53	-118.35	53.98	-172.33	-110.00	-62.33
327.875	-79.56	-10.79	-53.05	-37.30	-0.95	-79.99	-118.24	53.98	-172.22	-110.00	-62.22
330.25	-78.95	-10.79	-52.80	-36.93	-1.07	-79.54	-117.55	53.98	-171.53	-110.00	-61.53
332.625	-77.95	-10.79	-52.85	-35.88	-1.05	-79.84	-116.77	53.98	-170.75	-110.00	-60.75
335	-77.13	-10.79	-52.72	-35.20	-1.09	-77.79	-114.08	53.98	-168.06	-110.00	-58.06
337.375	-76.19	-10.79	-52.63	-34.35	-1.11	-78.89	-114.35	53.98	-168.33	-110.00	-58.33
339.75	-74.92	-10.79	-52.63	-33.08	-1.03	-78.53	-112.64	53.98	-166.62	-110.00	-56.62
342.125	-74.35	-10.79	-52.57	-32.58	-0.96	-78.60	-112.13	53.98	-166.11	-110.00	-56.11
344.5	-73.68	-10.79	-52.49	-31.98	-0.87	-75.74	-108.59	53.98	-162.57	-110.00	-52.57
346.875	-72.93	-10.79	-52.47	-31.25	-0.75	-76.71	-108.71	53.98	-162.69	-110.00	-52.69
349.25	-72.44	-10.79	-52.56	-30.66	-0.65	-76.66	-107.98	53.98	-161.96	-110.00	-51.96
351.625	-71.93	-10.79	-52.36	-30.35	-0.46	-77.04	-107.85	53.98	-161.83	-110.00	-51.83
354	-71.41	-10.79	-52.32	-29.87	-0.41	-78.81	-109.09	53.98	-163.07	-110.00	-53.07
356.375	-70.75	-10.79	-52.19	-29.35	-0.33	-79.51	-109.19	53.98	-163.17	-110.00	-53.17
358.75	-70.17	-10.79	-52.20	-28.76	-0.31	-79.87	-108.94	53.98	-162.92	-110.00	-52.92
361.125	-69.53	-10.79	-52.19	-28.12	-0.32	-78.25	-106.69	53.98	-160.67	-110.00	-50.67
363.5	-69.04	-10.79	-52.23	-27.60	-0.39	-79.01	-107.00	53.98	-160.98	-110.00	-50.98
365.875	-68.64	-10.79	-52.09	-27.34	-0.54	-77.24	-105.12	53.98	-159.10	-110.00	-49.10
368.25	-68.41	-10.79	-52.03	-27.17	-0.57	-77.51	-105.25	53.98	-159.23	-110.00	-49.23
370.625	-68.17	-10.79	-52.03	-26.92	-0.65	-78.19	-105.76	53.98	-159.74	-110.00	-49.74
373	-67.96	-10.79	-51.94	-26.81	-0.56	-77.97	-105.34	53.98	-159.32	-110.00	-49.32
375.375	-67.71	-10.79	-51.92	-26.58	-0.51	-76.64	-103.72	53.98	-157.70	-110.00	-47.70
377.75	-67.51	-10.79	-51.72	-26.58	-0.44	-75.21	-102.23	53.98	-156.21	-110.00	-46.21
380.125	-67.20	-10.79	-51.76	-26.23	-0.22	-75.92	-102.36	53.98	-156.34	-110.00	-46.34
382.5	-66.97	-10.79	-51.65	-26.11	-0.19	-76.03	-102.33	53.98	-156.31	-110.00	-46.31
384.875	-66.81	-10.79	-51.63	-25.97	-0.13	-74.85	-100.96	53.98	-154.93	-110.00	-44.93

387.25	-66.49	-10.79	-51.61	-25.67	-0.03	-74.01	-99.70	53.98	-153.68	-110.00	-43.68
389.625	-66.19	-10.79	-51.60	-25.39	-0.05	-74.52	-99.95	53.98	-153.93	-110.00	-43.93
392	-66.06	-10.79	-51.48	-25.37	-0.07	-74.42	-99.86	53.98	-153.84	-110.00	-43.84
394.375	-65.76	-10.79	-51.50	-25.05	-0.04	-75.74	-100.83	53.98	-154.80	-110.00	-44.80
396.75	-65.56	-10.79	-51.36	-24.99	-0.03	-76.00	-101.03	53.98	-155.01	-110.00	-45.01
399.125	-65.16	-10.79	-51.44	-24.51	-0.11	-76.49	-101.11	53.98	-155.08	-110.00	-45.08
401.5	-65.01	-10.79	-51.30	-24.50	-0.12	-77.28	-101.90	53.98	-155.88	-110.00	-45.88
403.875	-64.92	-10.79	-51.28	-24.43	-0.17	-77.99	-102.59	53.98	-156.57	-110.00	-46.57
406.25	-64.76	-10.79	-51.29	-24.26	-0.20	-75.18	-99.64	53.98	-153.62	-110.00	-43.62
408.625	-64.55	-10.79	-51.22	-24.12	-0.22	-74.98	-99.32	53.98	-153.29	-110.00	-43.29
411	-64.43	-10.79	-51.19	-24.03	-0.17	-73.71	-97.91	53.98	-151.89	-110.00	-41.89
413.375	-64.15	-10.79	-51.29	-23.64	-0.17	-73.98	-97.79	53.98	-151.77	-110.00	-41.77
415.75	-63.60	-10.79	-51.32	-23.07	-0.10	-73.17	-96.34	53.98	-150.32	-110.00	-40.32
418.125	-62.94	-10.79	-51.31	-22.42	-0.11	-73.09	-95.63	53.98	-149.61	-110.00	-39.61
420.5	-62.57	-10.79	-51.20	-22.16	-0.14	-72.42	-94.72	53.98	-148.70	-110.00	-38.70
422.875	-62.40	-10.79	-51.24	-21.94	-0.11	-72.79	-94.84	53.98	-148.82	-110.00	-38.82
425.25	-62.06	-10.79	-51.29	-21.57	-0.09	-71.03	-92.69	53.98	-146.67	-110.00	-36.67
427.625	-61.83	-10.79	-51.23	-21.38	-0.07	-71.63	-93.08	53.98	-147.06	-110.00	-37.06
430	-61.73	-10.79	-51.22	-21.30	-0.08	-69.83	-91.21	53.98	-145.19	-110.00	-35.19
432.375	-61.70	-10.79	-51.32	-21.16	-0.08	-71.08	-92.32	53.98	-146.30	-110.00	-36.30
434.75	-61.40	-10.79	-51.27	-20.92	-0.08	-70.08	-91.08	53.98	-145.06	-110.00	-35.06
437.125	-61.54	-10.79	-51.27	-21.06	-0.12	-70.79	-91.97	53.98	-145.94	-110.00	-35.94
439.5	-61.81	-10.79	-51.36	-21.24	-0.05	-69.80	-91.08	53.98	-145.06	-110.00	-35.06
441.875	-62.42	-10.79	-51.26	-21.94	-0.14	-69.64	-91.72	53.98	-145.70	-110.00	-35.70
444.25	-62.93	-10.79	-51.40	-22.32	-0.11	-68.79	-91.23	53.98	-145.21	-110.00	-35.21
446.625	-63.22	-10.79	-51.34	-22.68	-0.16	-68.79	-91.62	53.98	-145.60	-110.00	-35.60
449	-62.92	-10.79	-51.36	-22.36	-0.14	-68.76	-91.26	53.98	-145.24	-110.00	-35.24
451.375	-62.93	-10.79	-51.30	-22.42	-0.13	-68.49	-91.03	53.98	-145.01	-110.00	-35.01
453.75	-62.72	-10.79	-51.34	-22.17	-0.12	-68.95	-91.23	53.98	-145.21	-110.00	-35.21
456.125	-62.73	-10.79	-51.34	-22.18	-0.07	-66.98	-89.23	53.98	-143.21	-110.00	-33.21
458.5	-62.63	-10.79	-51.15	-22.27	-0.10	-66.84	-89.21	53.98	-143.19	-110.00	-33.19
460.875	-62.51	-10.79	-51.25	-22.05	-0.08	-64.94	-87.07	53.98	-141.05	-110.00	-31.05
463.25	-62.65	-10.79	-51.19	-22.25	-0.06	-63.88	-86.18	53.98	-140.16	-110.00	-30.16
465.625	-62.91	-10.79	-51.24	-22.47	-0.11	-63.42	-86.00	53.98	-139.98	-110.00	-29.98
468	-62.78	-10.79	-51.18	-22.40	-0.09	-62.38	-84.87	53.98	-138.85	-110.00	-28.85
470.375	-62.71	-10.79	-51.07	-22.43	-0.11	-61.27	-83.81	53.98	-137.79	-110.00	-27.79
472.75	-62.37	-10.79	-51.18	-21.98	-0.09	-60.41	-82.48	53.98	-136.46	-110.00	-26.46
475.125	-61.37	-10.79	-51.04	-21.12	-0.05	-60.39	-81.56	53.98	-135.54	-110.00	-25.54
477.5	-60.06	-10.79	-51.15	-19.70	-0.12	-59.47	-79.28	53.98	-133.26	-110.00	-23.26
479.875	-58.19	-10.79	-51.22	-17.76	-0.14	-58.43	-76.33	53.98	-130.31	-110.00	-20.31

482.25	-57.09	-10.79	-51.16	-16.72	-0.15	-57.75	-74.61	53.98	-128.59	-110.00	-18.59
484.625	-56.25	-10.79	-51.21	-15.83	-0.18	-56.78	-72.79	53.98	-126.77	-110.00	-16.77
487	-55.89	-10.79	-51.19	-15.48	-0.10	-55.47	-71.05	53.98	-125.03	-110.00	-15.03
489.375	-55.38	-10.79	-51.23	-14.94	-0.10	-54.31	-69.35	53.98	-123.33	-110.00	-13.33
491.75	-54.83	-10.79	-51.21	-14.40	-0.10	-52.22	-66.73	53.98	-120.71	-110.00	-10.71
494.125	-54.25	-10.79	-51.17	-13.86	-0.06	-51.17	-65.09	53.98	-119.07	-110.00	-9.07
496.5	-53.14	-10.79	-51.09	-12.83	-0.09	-50.62	-63.55	53.98	-117.53	-110.00	-7.53
498.875	-50.73	-10.79	-51.13	-10.38	-0.09	-50.90	-61.37	53.98	-115.35	-110.00	-5.35
500	Refer to Table "1" for 500 - 518 MHz Conducted Spurious Emission Test Data										
518											
520.25	-51.11	-10.79	-51.16	-10.74	-0.15	-52.82	-63.71	53.98	-117.69	-110.00	-7.69
522.625	-51.78	-10.79	-51.21	-11.36	-0.15	-52.30	-63.81	53.98	-117.79	-110.00	-7.79
525	-52.48	-10.79	-51.20	-12.07	-0.08	-54.38	-66.53	53.98	-120.51	-110.00	-10.51
527.375	-53.38	-10.79	-51.22	-12.95	-0.07	-55.83	-68.85	53.98	-122.83	-110.00	-12.83
529.75	-54.10	-10.79	-51.21	-13.68	-0.08	-57.58	-71.34	53.98	-125.32	-110.00	-15.32
532.125	-54.98	-10.79	-51.19	-14.58	-0.13	-60.10	-74.81	53.98	-128.78	-110.00	-18.78
534.5	-55.89	-10.79	-51.18	-15.50	-0.12	-61.42	-77.04	53.98	-131.02	-110.00	-21.02
536.875	-57.76	-10.79	-51.14	-17.40	-0.15	-63.75	-81.31	53.98	-135.29	-110.00	-25.29
539.25	-59.55	-10.79	-51.03	-19.32	-0.12	-64.63	-84.08	53.98	-138.05	-110.00	-28.05
541.625	-61.26	-10.79	-51.12	-20.92	-0.10	-65.72	-86.75	53.98	-140.73	-110.00	-30.73
544	-62.79	-10.79	-51.15	-22.43	-0.10	-66.35	-88.87	53.98	-142.85	-110.00	-32.85
546.375	-63.55	-10.79	-51.12	-23.21	-0.11	-67.76	-91.08	53.98	-145.06	-110.00	-35.06
548.75	-64.00	-10.79	-51.11	-23.68	-0.12	-68.98	-92.78	53.98	-146.76	-110.00	-36.76
551.125	-64.02	-10.79	-51.19	-23.62	-0.09	-69.87	-93.59	53.98	-147.56	-110.00	-37.56
553.5	-64.36	-10.79	-51.11	-24.03	-0.14	-70.81	-94.98	53.98	-148.96	-110.00	-38.96
555.875	-64.30	-10.79	-51.20	-23.89	-0.12	-71.36	-95.38	53.98	-149.36	-110.00	-39.36
558.25	-64.19	-10.79	-51.17	-23.82	-0.06	-73.20	-97.07	53.98	-151.05	-110.00	-41.05
560.625	-64.01	-10.79	-51.16	-23.64	-0.10	-74.02	-97.76	53.98	-151.74	-110.00	-41.74
563	-63.99	-10.79	-51.17	-23.62	-0.12	-76.91	-100.64	53.98	-154.62	-110.00	-44.62
565.375	-63.79	-10.79	-51.16	-23.42	-0.16	-76.71	-100.29	53.98	-154.27	-110.00	-44.27
567.75	-63.30	-10.79	-51.26	-22.83	-0.16	-78.35	-101.33	53.98	-155.31	-110.00	-45.31
570.125	-63.02	-10.79	-51.34	-22.47	-0.13	-80.38	-102.98	53.98	-156.96	-110.00	-46.96
572.5	-62.68	-10.79	-51.30	-22.17	-0.18	-79.66	-102.01	53.98	-155.98	-110.00	-45.98
574.875	-62.57	-10.79	-51.36	-22.00	-0.14	-78.13	-100.27	53.98	-154.25	-110.00	-44.25
577.25	-62.95	-10.79	-51.41	-22.33	-0.14	-80.26	-102.73	53.98	-156.71	-110.00	-46.71
579.625	-63.55	-10.79	-51.28	-23.06	-0.13	-79.66	-102.86	53.98	-156.84	-110.00	-46.84
582	-64.00	-10.79	-51.27	-23.52	-0.12	-79.85	-103.50	53.98	-157.48	-110.00	-47.48
584.375	-64.34	-10.79	-51.26	-23.87	-0.10	-79.72	-103.69	53.98	-157.67	-110.00	-47.67
586.75	-64.59	-10.79	-51.23	-24.16	-0.16	-79.88	-104.20	53.98	-158.18	-110.00	-48.18
589.125	-64.61	-10.79	-51.19	-24.21	-0.13	-80.50	-104.85	53.98	-158.83	-110.00	-48.83

591.5	-64.51	-10.79	-51.19	-24.12	-0.13	-79.98	-104.22	53.98	-158.20	-110.00	-48.20
593.875	-64.53	-10.79	-51.12	-24.20	-0.11	-79.96	-104.27	53.98	-158.25	-110.00	-48.25
596.25	-64.77	-10.79	-51.24	-24.32	-0.15	-80.21	-104.68	53.98	-158.66	-110.00	-48.66
598.625	-64.53	-10.79	-51.22	-24.10	-0.13	-80.10	-104.33	53.98	-158.31	-110.00	-48.31
601	-64.52	-10.79	-51.25	-24.07	-0.14	-79.77	-103.98	53.98	-157.96	-110.00	-47.96
603.375	-64.64	-10.79	-51.28	-24.15	-0.17	-79.68	-104.00	53.98	-157.98	-110.00	-47.98
605.75	-64.46	-10.79	-51.23	-24.03	-0.14	-79.85	-104.01	53.98	-157.99	-110.00	-47.99
608.125	-64.73	-10.79	-51.27	-24.25	-0.15	-80.08	-104.48	53.98	-158.46	-110.00	-48.46
610.5	-64.74	-10.79	-51.32	-24.20	-0.11	-80.31	-104.63	53.98	-158.61	-110.00	-48.61
612.875	-64.89	-10.79	-51.35	-24.33	-0.11	-79.83	-104.26	53.98	-158.24	-110.00	-48.24
615.25	-64.81	-10.79	-51.40	-24.20	-0.05	-78.24	-102.50	53.98	-156.48	-110.00	-46.48
617.625	-65.01	-10.79	-51.46	-24.34	-0.04	-78.85	-103.23	53.98	-157.21	-110.00	-47.21
620	-64.87	-10.79	-51.45	-24.21	-0.07	-79.78	-104.06	53.98	-158.04	-110.00	-48.04
622.375	-65.14	-10.79	-51.46	-24.47	-0.14	-79.80	-104.41	53.98	-158.39	-110.00	-48.39
624.75	-65.34	-10.79	-51.44	-24.69	-0.21	-79.77	-104.66	53.98	-158.64	-110.00	-48.64
627.125	-65.57	-10.79	-51.46	-24.90	-0.21	-79.65	-104.77	53.98	-158.75	-110.00	-48.75
629.5	-65.89	-10.79	-51.42	-25.26	-0.21	-79.47	-104.94	53.98	-158.92	-110.00	-48.92
631.875	-65.89	-10.79	-51.29	-25.39	-0.13	-79.52	-105.05	53.98	-159.03	-110.00	-49.03
634.25	-66.22	-10.79	-51.40	-25.61	-0.09	-80.47	-106.17	53.98	-160.15	-110.00	-50.15
636.625	-66.41	-10.79	-51.24	-25.96	-0.08	-79.59	-105.62	53.98	-159.60	-110.00	-49.60
639	-66.59	-10.79	-51.34	-26.04	-0.10	-79.89	-106.03	53.98	-160.01	-110.00	-50.01
641.375	-66.69	-10.79	-51.18	-26.30	-0.12	-79.95	-106.37	53.98	-160.35	-110.00	-50.35
643.75	-67.02	-10.79	-51.27	-26.54	-0.17	-79.69	-106.40	53.98	-160.37	-110.00	-50.37
646.125	-67.38	-10.79	-51.30	-26.87	-0.17	-79.61	-106.65	53.98	-160.63	-110.00	-50.63
648.5	-67.63	-10.79	-51.29	-27.13	-0.17	-80.17	-107.47	53.98	-161.45	-110.00	-51.45
650.875	-68.12	-10.79	-51.25	-27.65	-0.16	-79.68	-107.49	53.98	-161.47	-110.00	-51.47
653.25	-68.70	-10.79	-51.25	-28.24	-0.14	-79.60	-107.98	53.98	-161.95	-110.00	-51.95
655.625	-69.10	-10.79	-51.27	-28.62	-0.15	-80.46	-109.24	53.98	-163.22	-110.00	-53.22
658	-69.71	-10.79	-51.20	-29.30	-0.17	-79.90	-109.36	53.98	-163.34	-110.00	-53.34
660.375	-70.27	-10.79	-51.23	-29.83	-0.20	-80.59	-110.61	53.98	-164.59	-110.00	-54.59
662.75	-70.97	-10.79	-51.18	-30.57	-0.17	-80.87	-111.62	53.98	-165.60	-110.00	-55.60
665.125	-71.48	-10.79	-51.27	-31.00	-0.19	-80.92	-112.10	53.98	-166.08	-110.00	-56.08
667.5	-71.97	-10.79	-51.38	-31.38	-0.19	-80.10	-111.67	53.98	-165.65	-110.00	-55.65
669.875	-72.27	-10.79	-51.36	-31.70	-0.19	-80.78	-112.68	53.98	-166.65	-110.00	-56.65
672.25	-72.57	-10.79	-51.36	-32.01	-0.22	-80.11	-112.34	53.98	-166.32	-110.00	-56.32
674.625	-72.91	-10.79	-51.49	-32.22	-0.22	-80.05	-112.49	53.98	-166.47	-110.00	-56.47
677	-73.23	-10.79	-51.46	-32.56	-0.21	-80.69	-113.47	53.98	-167.45	-110.00	-57.45
679.375	-73.50	-10.79	-51.36	-32.93	-0.22	-78.95	-112.10	53.98	-166.07	-110.00	-56.07
681.75	-74.06	-10.79	-51.33	-33.51	-0.29	-79.61	-113.41	53.98	-167.39	-110.00	-57.39
684.125	-74.03	-10.79	-51.33	-33.49	-0.56	-80.32	-114.37	53.98	-168.35	-110.00	-58.35

686.5	-74.77	-10.79	-51.29	-34.26	-1.00	-80.56	-115.83	53.98	-169.80	-110.00	-59.80
688.875	-75.23	-10.79	-51.40	-34.62	-1.45	-80.65	-116.71	53.98	-170.69	-110.00	-60.69
691.125	-75.99	-10.79	-51.23	-35.55	-2.40	-80.09	-118.04	53.98	-172.01	-110.00	-62.01
693.625	-76.66	-10.79	-51.19	-36.26	-2.91	-79.73	-118.91	53.98	-172.89	-110.00	-62.89
696	-77.25	-10.79	-51.35	-36.69	-3.45	-79.91	-120.05	53.98	-174.03	-110.00	-64.03
698.375	-77.99	-10.79	-51.37	-37.41	-4.02	-79.11	-120.54	53.98	-174.52	-110.00	-64.52
700.75	-78.79	-10.79	-51.40	-38.17	-4.23	-80.08	-122.48	53.98	-176.46	-110.00	-66.46
703.125	-79.23	-10.79	-51.43	-38.58	-4.63	-78.54	-121.75	53.98	-175.73	-110.00	-65.73
705.5	-79.76	-10.79	-51.34	-39.21	-4.80	-79.58	-123.59	53.98	-177.57	-110.00	-67.57
707.875	-80.36	-10.79	-51.43	-39.72	-5.60	-79.55	-124.86	53.98	-178.84	-110.00	-68.84
710.25	-80.70	-10.79	-51.41	-40.07	-6.21	-79.06	-125.34	53.98	-179.32	-110.00	-69.32
712.625	-81.03	-10.79	-51.42	-40.41	-6.97	-78.28	-125.66	53.98	-179.64	-110.00	-69.64
715	-81.57	-10.79	-51.47	-40.90	-8.87	-78.27	-128.03	53.98	-182.01	-110.00	-72.01
717.375	-81.80	-10.79	-51.42	-41.17	-9.87	-79.21	-130.26	53.98	-184.24	-110.00	-74.24
719.75	-81.61	-10.79	-51.45	-40.95	-10.79	-79.91	-131.64	53.98	-185.62	-110.00	-75.62
722.125	-81.61	-10.79	-51.44	-40.96	-12.49	-80.26	-133.71	53.98	-187.69	-110.00	-77.69
724.5	-81.15	-10.79	-51.40	-40.54	-13.17	-79.25	-132.96	53.98	-186.94	-110.00	-76.94
726.875	-81.17	-10.79	-51.39	-40.57	-14.30	-79.71	-134.58	53.98	-188.56	-110.00	-78.56
729.25	-81.14	-10.79	-51.28	-40.65	-14.74	-79.12	-134.51	53.98	-188.49	-110.00	-78.49
731.625	-80.88	-10.79	-51.21	-40.46	-15.08	-80.11	-135.65	53.98	-189.63	-110.00	-79.63
734	-80.84	-10.79	-51.19	-40.44	-15.63	-78.15	-134.22	53.98	-188.20	-110.00	-78.20
736.375	-80.69	-10.79	-51.19	-40.29	-15.89	-79.69	-135.87	53.98	-189.85	-110.00	-79.85
738.75	-80.68	-10.79	-51.28	-40.19	-16.50	-79.72	-136.41	53.98	-190.39	-110.00	-80.39
741.125	-80.66	-10.79	-51.13	-40.32	-17.07	-79.86	-137.24	53.98	-191.22	-110.00	-81.22
743.5	-80.65	-10.79	-51.17	-40.27	-17.65	-78.80	-136.72	53.98	-190.70	-110.00	-80.70
745.875	-80.55	-10.79	-51.36	-39.98	-19.19	-80.05	-139.22	53.98	-193.20	-110.00	-83.20
748.25	-80.77	-10.79	-51.40	-40.15	-20.01	-79.95	-140.12	53.98	-194.10	-110.00	-84.10
750.625	-80.57	-10.79	-51.39	-39.96	-21.68	-80.03	-141.67	53.98	-195.65	-110.00	-85.65
753	-80.78	-10.79	-51.38	-40.19	-22.48	-79.46	-142.13	53.98	-196.11	-110.00	-86.11
755.375	-80.92	-10.79	-51.41	-40.30	-23.17	-79.14	-142.61	53.98	-196.59	-110.00	-86.59
757.75	-81.08	-10.79	-51.43	-40.45	-24.42	-79.40	-144.27	53.98	-198.25	-110.00	-88.25
760.125	-81.30	-10.79	-51.47	-40.62	-24.90	-79.59	-145.11	53.98	-199.09	-110.00	-89.09
762.5	-81.37	-10.79	-51.44	-40.72	-25.67	-80.04	-146.43	53.98	-200.41	-110.00	-90.41
764.875	-81.60	-10.79	-51.44	-40.94	-25.92	-80.28	-147.14	53.98	-201.12	-110.00	-91.12
767.25	-81.88	-10.79	-51.45	-41.22	-26.16	-80.28	-147.67	53.98	-201.65	-110.00	-91.65
769.625	-81.83	-10.79	-51.35	-41.27	-26.52	-79.10	-146.89	53.98	-200.87	-110.00	-90.87
772	-81.91	-10.79	-51.38	-41.33	-26.68	-79.44	-147.45	53.98	-201.43	-110.00	-91.43
774.375	-82.24	-10.79	-51.40	-41.63	-27.18	-79.92	-148.73	53.98	-202.71	-110.00	-92.71
776.75	-82.24	-10.79	-51.33	-41.70	-27.53	-79.23	-148.46	53.98	-202.44	-110.00	-92.44
779.125	-82.48	-10.79	-51.40	-41.87	-28.04	-80.34	-150.25	53.98	-204.22	-110.00	-94.22

781.5	-82.16	-10.79	-51.32	-41.63	-29.25	-79.42	-150.30	53.98	-204.28	-110.00	-94.28
783.875	-82.38	-10.79	-51.35	-41.83	-30.02	-80.15	-152.00	53.98	-205.98	-110.00	-95.98
786.25	-82.27	-10.79	-51.40	-41.66	-31.45	-79.73	-152.85	53.98	-206.83	-110.00	-96.83
788.625	-82.32	-10.79	-51.37	-41.74	-32.20	-79.75	-153.68	53.98	-207.66	-110.00	-97.66
791	-81.55	-10.79	-51.32	-41.01	-32.81	-79.51	-153.33	53.98	-207.31	-110.00	-97.31
793.375	-81.36	-10.79	-51.49	-40.66	-33.98	-79.54	-154.18	53.98	-208.16	-110.00	-98.16
795.75	-80.93	-10.79	-51.46	-40.26	-34.43	-79.90	-154.59	53.98	-208.57	-110.00	-98.57
798.125	-80.86	-10.79	-51.47	-40.17	-35.25	-78.56	-153.98	53.98	-207.96	-110.00	-97.96
800.5	-80.54	-10.79	-51.49	-39.84	-35.49	-79.87	-155.19	53.98	-209.17	-110.00	-99.17
802.875	-80.54	-10.79	-51.48	-39.84	-35.86	-79.29	-155.00	53.98	-208.98	-110.00	-98.98
805.25	-79.95	-10.79	-51.57	-39.16	-35.97	-78.98	-154.12	53.98	-208.10	-110.00	-98.10
807.625	-79.65	-10.79	-51.51	-38.93	-36.11	-79.72	-154.76	53.98	-208.74	-110.00	-98.74
810	-79.74	-10.79	-51.54	-38.99	-36.28	-78.58	-153.85	53.98	-207.83	-110.00	-97.83
812.375	-80.03	-10.79	-51.53	-39.29	-36.46	-79.74	-155.50	53.98	-209.47	-110.00	-99.47
814.75	-80.29	-10.79	-51.58	-39.50	-37.02	-80.00	-156.52	53.98	-210.50	-110.00	-100.50
817.125	-80.76	-10.79	-51.42	-40.13	-37.41	-80.03	-157.58	53.98	-211.56	-110.00	-101.56
819.5	-81.83	-10.79	-51.50	-41.13	-37.98	-79.00	-158.11	53.98	-212.09	-110.00	-102.09
821.875	-82.57	-10.79	-51.44	-41.92	-39.14	-79.79	-160.85	53.98	-214.83	-110.00	-104.83
824.25	-83.02	-10.79	-51.39	-42.42	-39.86	-79.95	-162.23	53.98	-216.21	-110.00	-106.21
826.625	-83.03	-10.79	-51.44	-42.37	-40.93	-79.68	-162.98	53.98	-216.96	-110.00	-106.96
829	-83.13	-10.79	-51.48	-42.43	-41.80	-79.46	-163.69	53.98	-217.67	-110.00	-107.67
831.375	-83.27	-10.79	-51.55	-42.51	-42.35	-78.11	-162.97	53.98	-216.94	-110.00	-106.94
833.75	-83.32	-10.79	-51.52	-42.59	-43.26	-79.37	-165.21	53.98	-219.19	-110.00	-109.19
836.125	-82.92	-10.79	-51.41	-42.29	-43.59	-79.50	-165.39	53.98	-219.36	-110.00	-109.36
838.5	-82.61	-10.79	-51.46	-41.94	-44.26	-80.00	-166.20	53.98	-220.18	-110.00	-110.18
840.875	-82.36	-10.79	-51.47	-41.68	-44.41	-79.63	-165.72	53.98	-219.70	-110.00	-109.70
843.25	-82.34	-10.79	-51.56	-41.57	-44.45	-79.77	-165.78	53.98	-219.76	-110.00	-109.76
845.625	-82.16	-10.79	-51.56	-41.40	-44.61	-79.53	-165.53	53.98	-219.51	-110.00	-109.51
848	-82.23	-10.79	-51.59	-41.44	-44.71	-78.66	-164.81	53.98	-218.79	-110.00	-108.79
850.375	-82.23	-10.79	-51.48	-41.54	-44.85	-78.57	-164.96	53.98	-218.94	-110.00	-108.94
852.75	-82.42	-10.79	-51.46	-41.75	-44.99	-79.48	-166.22	53.98	-220.20	-110.00	-110.20
855.125	-82.21	-10.79	-51.48	-41.52	-45.29	-79.19	-166.01	53.98	-219.99	-110.00	-109.99
857.5	-81.93	-10.79	-51.44	-41.28	-46.29	-80.03	-167.60	53.98	-221.58	-110.00	-111.58
859.875	-81.43	-10.79	-51.44	-40.78	-46.77	-78.66	-166.21	53.98	-220.19	-110.00	-110.19
862.25	-80.95	-10.79	-51.41	-40.33	-48.04	-79.36	-167.73	53.98	-221.71	-110.00	-111.71
864.625	-80.22	-10.79	-51.33	-39.68	-48.64	-78.04	-166.36	53.98	-220.34	-110.00	-110.34
867	-79.67	-10.79	-51.39	-39.07	-49.27	-78.31	-166.64	53.98	-220.62	-110.00	-110.62
869.375	-78.89	-10.79	-51.37	-38.31	-50.35	-79.35	-168.01	53.98	-221.99	-110.00	-111.99
871.75	-78.56	-10.79	-51.31	-38.04	-50.65	-78.87	-167.56	53.98	-221.54	-110.00	-111.54
874.125	-78.31	-10.79	-51.28	-37.82	-51.34	-79.24	-168.41	53.98	-222.39	-110.00	-112.39

876.5	-78.14	-10.79	-51.30	-37.63	-51.65	-78.83	-168.11	53.98	-222.09	-110.00	-112.09
878.875	-77.88	-10.79	-51.42	-37.26	-51.97	-78.62	-167.84	53.98	-221.82	-110.00	-111.82
881.25	-77.68	-10.79	-51.42	-37.05	-51.85	-79.57	-168.47	53.98	-222.45	-110.00	-112.45
883.625	-77.55	-10.79	-51.53	-36.81	-51.90	-79.54	-168.25	53.98	-222.23	-110.00	-112.23
886	-77.12	-10.79	-51.47	-36.44	-52.01	-78.27	-166.73	53.98	-220.71	-110.00	-110.71
888.375	-76.97	-10.79	-51.47	-36.29	-52.19	-79.57	-168.05	53.98	-222.03	-110.00	-112.03
890.75	-76.60	-10.79	-51.54	-35.85	-52.64	-79.64	-168.14	53.98	-222.12	-110.00	-112.12
893.125	-76.48	-10.79	-51.49	-35.78	-52.89	-79.61	-168.28	53.98	-222.26	-110.00	-112.26
895.5	-76.79	-10.79	-51.64	-35.94	-53.53	-78.63	-168.10	53.98	-222.08	-110.00	-112.08
897.875	-76.74	-10.79	-51.47	-36.06	-54.80	-79.29	-170.14	53.98	-224.12	-110.00	-114.12
900.25	-76.70	-10.79	-51.43	-36.06	-55.16	-79.76	-170.98	53.98	-224.96	-110.00	-114.96
902.625	-76.82	-10.79	-51.55	-36.05	-56.18	-79.52	-171.76	53.98	-225.74	-110.00	-115.74
905	-76.95	-10.79	-51.48	-36.26	-57.06	-79.35	-172.67	53.98	-226.65	-110.00	-116.65
907.375	-76.78	-10.79	-51.44	-36.13	-57.32	-79.67	-173.12	53.98	-227.10	-110.00	-117.10
909.75	-76.78	-10.79	-51.43	-36.14	-57.81	-79.19	-173.14	53.98	-227.12	-110.00	-117.12
912.125	-76.63	-10.79	-51.42	-35.99	-58.02	-79.54	-173.56	53.98	-227.54	-110.00	-117.54
914.5	-76.27	-10.79	-51.46	-35.60	-58.62	-79.62	-173.84	53.98	-227.82	-110.00	-117.82
916.875	-75.76	-10.79	-51.39	-35.16	-58.54	-79.36	-173.05	53.98	-227.03	-110.00	-117.03
919.25	-75.38	-10.79	-51.35	-34.81	-58.49	-79.64	-172.94	53.98	-226.92	-110.00	-116.92
921.625	-75.04	-10.79	-51.32	-34.51	-58.34	-79.14	-171.99	53.98	-225.97	-110.00	-115.97
924	-74.76	-10.79	-51.40	-34.15	-58.54	-79.44	-172.12	53.98	-226.10	-110.00	-116.10
926.375	-74.60	-10.79	-51.35	-34.05	-58.79	-79.57	-172.41	53.98	-226.39	-110.00	-116.39
928.75	-74.53	-10.79	-51.34	-33.98	-59.17	-79.87	-173.03	53.98	-227.01	-110.00	-117.01
931.125	-73.95	-10.79	-51.47	-33.27	-59.75	-79.74	-172.76	53.98	-226.74	-110.00	-116.74
933.5	-73.74	-10.79	-51.42	-33.11	-60.39	-79.26	-172.76	53.98	-226.74	-110.00	-116.74
935.875	-73.39	-10.79	-51.42	-32.76	-60.48	-80.33	-173.58	53.98	-227.56	-110.00	-117.56
938.25	-73.09	-10.79	-51.49	-32.40	-62.11	-80.50	-175.01	53.98	-228.99	-110.00	-118.99
940.625	-72.61	-10.79	-51.37	-32.02	-62.78	-80.63	-175.44	53.98	-229.42	-110.00	-119.42
943	-72.19	-10.79	-51.42	-31.56	-62.76	-79.22	-173.54	53.98	-227.52	-110.00	-117.52
945.375	-71.88	-10.79	-51.39	-31.27	-63.62	-79.73	-174.62	53.98	-228.60	-110.00	-118.60
947.75	-71.68	-10.79	-51.41	-31.06	-64.22	-80.68	-175.96	53.98	-229.94	-110.00	-119.94
950.125	-71.45	-10.79	-51.43	-30.81	-64.03	-80.21	-175.06	53.98	-229.04	-110.00	-119.04
952.5	-71.57	-10.79	-51.40	-30.96	-64.20	-79.65	-174.80	53.98	-228.78	-110.00	-118.78
954.875	-72.12	-10.79	-51.48	-31.43	-64.08	-78.86	-174.38	53.98	-228.36	-110.00	-118.36
957.25	-72.22	-10.79	-51.44	-31.57	-64.40	-80.28	-176.25	53.98	-230.23	-110.00	-120.23
959.625	-72.65	-10.79	-51.37	-32.07	-64.32	-80.16	-176.55	53.98	-230.53	-110.00	-120.53
962	-72.99	-10.79	-51.48	-32.30	-64.61	-78.67	-175.58	53.98	-229.56	-110.00	-119.56
964.375	-73.41	-10.79	-51.42	-32.78	-64.65	-79.77	-177.19	53.98	-231.17	-110.00	-121.17
966.75	-74.00	-10.79	-51.41	-33.39	-65.12	-79.88	-178.39	53.98	-232.37	-110.00	-122.37
969.125	-74.59	-10.79	-51.49	-33.89	-65.65	-80.34	-179.87	53.98	-233.85	-110.00	-123.85

971.5	-75.17	-10.79	-51.43	-34.53	-65.86	-78.69	-179.08	53.98	-233.06	-110.00	-123.06
973.875	-75.38	-10.79	-51.50	-34.67	-66.98	-79.50	-181.14	53.98	-235.12	-110.00	-125.12
976.25	-75.32	-10.79	-51.63	-34.49	-68.03	-79.54	-182.06	53.98	-236.04	-110.00	-126.04
978.625	-74.22	-10.79	-51.56	-33.45	-67.13	-79.73	-180.32	53.98	-234.30	-110.00	-124.30
981	-72.69	-10.79	-51.62	-31.86	-68.69	-78.99	-179.54	53.98	-233.52	-110.00	-123.52
983.375	-70.43	-10.79	-51.53	-29.69	-69.30	-79.98	-178.97	53.98	-232.95	-110.00	-122.95
985.75	-68.08	-10.79	-51.45	-27.42	-69.71	-79.73	-176.86	53.98	-230.84	-110.00	-120.84
988.125	-66.17	-10.79	-51.47	-25.49	-68.99	-78.76	-173.24	53.98	-227.22	-110.00	-117.22
990.5	-64.10	-10.79	-51.32	-23.58	-70.43	-79.93	-173.94	53.98	-227.91	-110.00	-117.91
992.875	-61.85	-10.79	-51.26	-21.38	-69.78	-79.52	-170.69	53.98	-224.67	-110.00	-114.67
995.25	-59.66	-10.79	-51.35	-19.10	-69.54	-79.53	-168.17	53.98	-222.15	-110.00	-112.15
997.625	-57.01	-10.79	-51.27	-16.53	-69.21	-79.06	-164.81	53.98	-218.79	-110.00	-108.79
1000	-54.23	-10.79	-51.33	-13.68	-70.17	-79.24	-163.09	53.98	-217.07	-110.00	-107.07

Table 3
1000 – 6000 MHz_ATSC 1.0

Freq	1	2	3	4	5	6	7	8	9	Limit	Margin
MHz	dBm	dB	dB	dBm	dB	dB	dB	dBm	dBm	dBc	dB
1000	-44.75	-10.79	-50.52	-5.02	-70.61	-81.20	-156.83	53.98	-210.81	-110	-100.81
1012.5	-19.76	-10.79	-50.71	20.16	-73.18	-85.38	-138.39	53.98	-192.37	-110	-82.37
1025	-21.44	-10.79	-50.81	18.58	-74.87	-87.03	-143.33	53.98	-197.31	-110	-87.31
1037.5	-49.89	-10.79	-50.70	-9.97	-74.37	-83.55	-167.90	53.98	-221.88	-110	-111.88
1050	-67.64	-10.79	-50.58	-27.85	-73.76	-84.30	-185.91	53.98	-239.89	-110	-129.89
1062.5	-79.00	-10.79	-50.80	-38.99	-74.71	-82.75	-196.45	53.98	-250.43	-110	-140.43
1075	-79.08	-10.79	-50.77	-39.11	-80.12	-80.05	-199.28	53.98	-253.26	-110	-143.26
1087.5	-75.77	-10.79	-50.67	-35.89	-84.09	-86.22	-206.21	53.98	-260.19	-110	-150.19
1100	-76.63	-10.79	-50.64	-36.78	-81.40	-78.95	-197.13	53.98	-251.11	-110	-141.11
1112.5	-78.48	-10.79	-50.76	-38.52	-81.67	-79.99	-200.18	53.98	-254.16	-110	-144.16
1125	-82.65	-10.79	-50.82	-42.62	-102.48	-69.30	-214.39	53.98	-268.37	-110	-158.37
1137.5	-86.16	-10.79	-50.60	-46.35	-86.77	-78.05	-211.17	53.98	-265.15	-110	-155.15
1150	-84.07	-10.79	-50.79	-44.08	-82.67	-83.87	-210.62	53.98	-264.60	-110	-154.60
1162.5	-82.30	-10.79	-50.77	-42.33	-81.15	-84.63	-208.10	53.98	-262.08	-110	-152.08
1175	-80.97	-10.79	-50.69	-41.08	-89.45	-80.96	-211.48	53.98	-265.46	-110	-155.46
1187.5	-81.42	-10.79	-50.70	-41.50	-90.08	-85.30	-216.88	53.98	-270.86	-110	-160.86
1200	-86.09	-10.79	-50.86	-46.02	-82.14	-81.07	-209.23	53.98	-263.21	-110	-153.21
1212.5	-87.33	-10.79	-50.83	-47.29	-93.94	-79.56	-220.79	53.98	-274.77	-110	-164.77
1225	-87.54	-10.79	-50.80	-47.53	-93.91	-76.89	-218.33	53.98	-272.31	-110	-162.31
1237.5	-86.89	-10.79	-50.55	-47.13	-86.07	-75.22	-208.42	53.98	-262.40	-110	-152.40
1250	-86.98	-10.79	-50.77	-47.00	-90.12	-74.64	-211.76	53.98	-265.74	-110	-155.74
1262.5	-87.32	-10.79	-50.78	-47.33	-97.77	-71.43	-216.53	53.98	-270.51	-110	-160.51

1275	-87.62	-10.79	-50.52	-47.90	-84.48	-67.41	-199.79	53.98	-253.77	-110	-143.77
1287.5	-87.64	-10.79	-50.70	-47.73	-87.11	-61.69	-196.53	53.98	-250.51	-110	-140.51
1300	-88.02	-10.79	-50.74	-48.07	-85.55	-55.09	-188.72	53.98	-242.70	-110	-132.70
1312.5	-88.23	-10.79	-50.68	-48.34	-106.30	-46.88	-201.52	53.98	-255.50	-110	-145.50
1325	-88.14	-10.79	-50.51	-48.42	-83.55	-22.44	-154.41	53.98	-208.39	-110	-98.39
1337.5	-87.99	-10.79	-50.78	-48.00	-87.43	-34.90	-170.33	53.98	-224.31	-110	-114.31
1350	-85.62	-10.79	-50.78	-45.63	-89.13	-35.56	-170.31	53.98	-224.29	-110	-114.29
1362.5	-84.03	-10.79	-50.48	-44.34	-78.84	-28.56	-151.75	53.98	-205.73	-110	-95.73
1375	-84.46	-10.79	-50.60	-44.64	-91.01	-21.90	-157.55	53.98	-211.53	-110	-101.53
1387.5	-84.98	-10.79	-50.66	-45.11	-86.98	-34.26	-166.35	53.98	-220.33	-110	-110.33
1400	-84.48	-10.79	-50.49	-44.78	-88.45	-37.76	-170.99	53.98	-224.97	-110	-114.97
1412.5	-85.21	-10.79	-50.43	-45.58	-84.05	-39.27	-168.90	53.98	-222.88	-110	-112.88
1425	-85.45	-10.79	-50.55	-45.69	-88.86	-39.54	-174.09	53.98	-228.07	-110	-118.07
1437.5	-84.53	-10.79	-50.60	-44.73	-90.75	-39.57	-175.05	53.98	-229.03	-110	-119.03
1450	-83.73	-10.79	-50.37	-44.15	-92.76	-37.52	-174.42	53.98	-228.40	-110	-118.40
1462.5	-83.61	-10.79	-50.49	-43.91	-87.33	-34.80	-166.04	53.98	-220.02	-110	-110.02
1475	-83.74	-10.79	-50.43	-44.10	-96.45	-32.13	-172.69	53.98	-226.67	-110	-116.67
1487.5	-83.12	-10.79	-50.67	-43.24	-91.80	-25.72	-160.76	53.98	-214.74	-110	-104.74
1500	-75.07	-10.79	-50.18	-35.67	-96.86	-3.81	-136.34	53.98	-190.32	-110	-80.32
1512.5	-55.05	-10.79	-50.33	-15.52	-94.56	-25.14	-135.21	53.98	-189.19	-110	-79.19
1525	-38.66	-10.79	-50.48	1.03	-86.60	-32.16	-117.74	53.98	-171.72	-110	-61.72
1537.5	-44.27	-10.79	-50.61	-4.46	-103.80	-3.00	-111.26	53.98	-165.24	-110	-55.24
1550	-73.10	-10.79	-50.02	-33.87	-83.48	-26.28	-143.63	53.98	-197.61	-110	-87.61
1562.5	-82.73	-10.79	-50.42	-43.11	-84.66	-21.06	-148.83	53.98	-202.81	-110	-92.81
1575	-85.19	-10.79	-50.33	-45.64	-95.39	-25.15	-166.19	53.98	-220.17	-110	-110.17
1587.5	-84.08	-10.79	-50.11	-44.76	-86.92	-9.46	-141.14	53.98	-195.12	-110	-85.12
1600	-82.38	-10.79	-50.13	-43.03	-84.68	-21.12	-148.83	53.98	-202.81	-110	-92.81
1612.5	-81.36	-10.79	-50.38	-41.78	-86.71	-25.06	-153.54	53.98	-207.52	-110	-97.52
1625	-80.07	-10.79	-50.34	-40.53	-94.90	-24.92	-160.34	53.98	-214.32	-110	-104.32
1637.5	-79.32	-10.79	-49.98	-40.13	-85.09	-23.70	-148.92	53.98	-202.90	-110	-92.90
1650	-79.46	-10.79	-50.09	-40.17	-97.28	-17.33	-154.78	53.98	-208.76	-110	-98.76
1662.5	-80.62	-10.79	-50.17	-41.23	-96.86	-19.40	-157.49	53.98	-211.47	-110	-101.47
1675	-81.76	-10.79	-49.95	-42.60	-87.36	-29.64	-159.59	53.98	-213.57	-110	-103.57
1687.5	-83.46	-10.79	-49.92	-44.33	-84.56	-36.66	-165.56	53.98	-219.54	-110	-109.54
1700	-85.75	-10.79	-50.05	-46.49	-86.54	-41.79	-174.83	53.98	-228.81	-110	-118.81
1712.5	-86.70	-10.79	-50.01	-47.48	-91.58	-44.41	-183.47	53.98	-237.45	-110	-127.45
1725	-86.63	-10.79	-49.73	-47.69	-84.76	-48.26	-180.71	53.98	-234.69	-110	-124.69
1737.5	-86.70	-10.79	-49.84	-47.66	-96.23	-52.18	-196.06	53.98	-250.04	-110	-140.04
1750	-86.69	-10.79	-50.04	-47.45	-101.02	-54.42	-202.88	53.98	-256.86	-110	-146.86
1762.5	-86.43	-10.79	-49.70	-47.52	-110.63	-58.81	-216.96	53.98	-270.94	-110	-160.94

1775	-86.20	-10.79	-49.79	-47.21	-87.50	-64.92	-199.63	53.98	-253.61	-110	-143.61
1787.5	-86.39	-10.79	-49.74	-47.43	-92.87	-74.41	-214.72	53.98	-268.70	-110	-158.70
1800	-86.00	-10.79	-49.92	-46.87	-89.44	-77.20	-213.51	53.98	-267.49	-110	-157.49
1812.5	-86.28	-10.79	-49.58	-47.50	-90.84	-66.03	-204.36	53.98	-258.34	-110	-148.34
1825	-86.22	-10.79	-49.70	-47.31	-85.09	-61.17	-193.57	53.98	-247.55	-110	-137.55
1837.5	-86.14	-10.79	-49.95	-46.98	-86.58	-56.39	-189.96	53.98	-243.94	-110	-133.94
1850	-85.80	-10.79	-49.90	-46.69	-84.16	-53.45	-184.30	53.98	-238.28	-110	-128.28
1862.5	-85.73	-10.79	-49.62	-46.90	-85.35	-50.38	-182.62	53.98	-236.60	-110	-126.60
1875	-85.94	-10.79	-49.77	-46.96	-98.73	-38.90	-184.59	53.98	-238.57	-110	-128.57
1887.5	-85.39	-10.79	-49.90	-46.28	-91.09	-69.73	-207.11	53.98	-261.09	-110	-151.09
1900	-85.18	-10.79	-49.75	-46.22	-86.96	-50.52	-183.71	53.98	-237.69	-110	-127.69
1912.5	-84.60	-10.79	-49.49	-45.90	-93.29	-45.63	-184.82	53.98	-238.80	-110	-128.80
1925	-84.44	-10.79	-49.81	-45.41	-83.67	-40.69	-169.77	53.98	-223.75	-110	-113.75
1937.5	-84.96	-10.79	-49.59	-46.16	-103.92	-23.98	-174.07	53.98	-228.05	-110	-118.05
1950	-84.18	-10.79	-49.37	-45.60	-85.21	-2.95	-133.76	53.98	-187.74	-110	-77.74
1962.5	-82.98	-10.79	-49.28	-44.49	-85.35	-19.51	-149.35	53.98	-203.33	-110	-93.33
1975	-82.73	-10.79	-49.26	-44.26	-88.22	-31.30	-163.79	53.98	-217.77	-110	-107.77
1987.5	-81.89	-10.79	-49.25	-43.43	-82.97	-37.22	-163.62	53.98	-217.60	-110	-107.60
2000	-77.41	-10.79	-46.55	-41.65	-86.32	-39.99	-167.96	53.98	-221.94	-110	-111.94
2012.5	-64.98	-10.79	-48.95	-26.82	-84.82	-46.48	-158.13	53.98	-212.11	-110	-102.11
2025	-38.02	-10.79	-48.81	0.00	-91.95	-17.04	-108.98	53.98	-162.96	-110	-52.96
2037.5	-35.09	-10.79	-48.90	3.02	-80.14	-20.72	-97.84	53.98	-151.81	-110	-41.81
2050	-43.59	-10.79	-48.94	-5.45	-82.62	-38.39	-126.46	53.98	-180.44	-110	-70.44
2062.5	-66.70	-10.79	-48.61	-28.88	-85.05	-59.57	-173.51	53.98	-227.49	-110	-117.49
2075	-75.70	-10.79	-48.65	-37.84	-92.93	-48.14	-178.91	53.98	-232.89	-110	-122.89
2087.5	-79.56	-10.79	-48.52	-41.83	-85.02	-40.40	-167.26	53.98	-221.23	-110	-111.23
2100	-79.48	-10.79	-48.37	-41.90	-85.00	-33.65	-160.55	53.98	-214.53	-110	-104.53
2112.5	-78.99	-10.79	-48.54	-41.24	-87.42	-26.68	-155.34	53.98	-209.32	-110	-99.32
2125	-77.19	-10.79	-48.26	-39.72	-89.49	-6.24	-135.45	53.98	-189.43	-110	-79.43
2137.5	-76.32	-10.79	-48.47	-38.64	-88.89	-17.71	-145.23	53.98	-199.21	-110	-89.21
2150	-77.32	-10.79	-48.14	-39.96	-91.77	-37.05	-168.78	53.98	-222.76	-110	-112.76
2162.5	-80.80	-10.79	-48.17	-43.42	-91.42	-38.88	-173.72	53.98	-227.70	-110	-117.70
2175	-84.20	-10.79	-48.31	-46.68	-94.74	-49.25	-190.67	53.98	-244.65	-110	-134.65
2187.5	-84.90	-10.79	-48.14	-47.55	-88.84	-53.91	-190.30	53.98	-244.28	-110	-134.28
2200	-85.14	-10.79	-48.15	-47.77	-83.66	-44.32	-175.76	53.98	-229.74	-110	-119.74
2212.5	-85.01	-10.79	-47.92	-47.88	-88.25	-35.15	-171.28	53.98	-225.26	-110	-115.26
2225	-85.28	-10.79	-47.96	-48.11	-83.87	-12.88	-144.87	53.98	-198.85	-110	-88.85
2237.5	-85.56	-10.79	-47.95	-48.41	-87.46	-22.61	-158.48	53.98	-212.46	-110	-102.46
2250	-85.44	-10.79	-47.74	-48.49	-86.00	-27.52	-162.02	53.98	-216.00	-110	-106.00
2262.5	-85.63	-10.79	-47.78	-48.65	-95.61	-51.80	-196.06	53.98	-250.04	-110	-140.04

2275	-85.66	-10.79	-47.87	-48.58	-88.15	-34.31	-171.04	53.98	-225.02	-110	-115.02
2287.5	-86.08	-10.79	-47.93	-48.94	-79.98	-21.20	-150.13	53.98	-204.10	-110	-94.10
2300	-85.86	-10.79	-47.62	-49.03	-88.47	-15.12	-152.62	53.98	-206.60	-110	-96.60
2312.5	-86.17	-10.79	-47.76	-49.20	-89.66	-48.13	-186.99	53.98	-240.97	-110	-130.97
2325	-86.60	-10.79	-47.85	-49.54	-86.06	-69.69	-205.30	53.98	-259.28	-110	-149.28
2337.5	-86.49	-10.79	-47.96	-49.32	-88.30	-72.77	-210.39	53.98	-264.37	-110	-154.37
2350	-86.42	-10.79	-47.81	-49.40	-89.69	-71.61	-210.70	53.98	-264.68	-110	-154.68
2362.5	-86.59	-10.79	-47.87	-49.51	-83.55	-83.20	-216.26	53.98	-270.24	-110	-160.24
2375	-86.82	-10.79	-47.83	-49.78	-95.32	-79.04	-224.15	53.98	-278.13	-110	-168.13
2387.5	-86.64	-10.79	-47.94	-49.49	-90.76	-99.52	-239.77	53.98	-293.75	-110	-183.75
2400	-86.81	-10.79	-47.83	-49.78	-91.37	-83.80	-224.94	53.98	-278.92	-110	-168.92
2412.5	-86.94	-10.79	-47.63	-50.10	-85.60	-84.84	-220.54	53.98	-274.52	-110	-164.52
2425	-86.79	-10.79	-47.74	-49.84	-98.51	-82.59	-230.94	53.98	-284.92	-110	-174.92
2437.5	-87.28	-10.79	-47.68	-50.39	-92.88	-81.93	-225.20	53.98	-279.18	-110	-169.18
2450	-86.62	-10.79	-47.79	-49.62	-81.84	-82.50	-213.96	53.98	-267.94	-110	-157.94
2462.5	-86.91	-10.79	-47.63	-50.07	-88.10	-81.88	-220.05	53.98	-274.03	-110	-164.03
2475	-86.41	-10.79	-47.56	-49.64	-83.31	-71.46	-204.40	53.98	-258.38	-110	-148.38
2487.5	-86.81	-10.79	-47.56	-50.04	-83.54	-55.30	-188.88	53.98	-242.86	-110	-132.86
2500	-86.39	-10.79	-47.42	-49.76	-88.32	-39.90	-177.99	53.98	-231.96	-110	-121.96
2512.5	-80.27	-10.79	-47.46	-43.60	-97.61	-35.42	-176.63	53.98	-230.61	-110	-120.61
2525	-63.15	-10.79	-47.15	-26.78	-93.62	-20.00	-140.41	53.98	-194.39	-110	-84.39
2537.5	-42.56	-10.79	-47.26	-6.09	-81.24	-7.49	-94.83	53.98	-148.81	-110	-38.81
2550	-43.54	-10.79	-47.31	-7.02	-90.28	-24.28	-121.58	53.98	-175.56	-110	-65.56
2562.5	-65.91	-10.79	-47.32	-29.39	-93.04	-27.85	-150.28	53.98	-204.26	-110	-94.26
2575	-84.15	-10.79	-47.07	-47.88	-98.64	-23.62	-170.14	53.98	-224.12	-110	-114.12
2587.5	-87.15	-10.79	-46.90	-51.04	-82.20	-21.64	-154.88	53.98	-208.85	-110	-98.85
2600	-86.38	-10.79	-46.90	-50.27	-83.75	-25.77	-159.80	53.98	-213.78	-110	-103.78
2612.5	-83.50	-10.79	-47.05	-47.24	-84.19	-30.82	-162.26	53.98	-216.24	-110	-106.24
2625	-83.73	-10.79	-47.02	-47.50	-95.29	-30.38	-173.18	53.98	-227.16	-110	-117.16
2637.5	-86.51	-10.79	-46.80	-50.50	-85.60	-30.74	-166.84	53.98	-220.82	-110	-110.82
2650	-87.31	-10.79	-46.64	-51.45	-85.60	-29.59	-166.65	53.98	-220.63	-110	-110.63
2662.5	-86.23	-10.79	-46.70	-50.32	-84.73	-24.87	-159.91	53.98	-213.89	-110	-103.89
2675	-86.51	-10.79	-44.30	-53.00	-88.39	-15.51	-156.91	53.98	-210.89	-110	-100.89
2687.5	-86.47	-10.79	-46.62	-50.63	-84.08	-35.40	-170.12	53.98	-224.10	-110	-114.10
2700	-87.52	-10.79	-46.45	-51.86	-86.09	-5.19	-143.15	53.98	-197.13	-110	-87.13
2712.5	-88.38	-10.79	-46.53	-52.64	-81.69	-11.93	-146.25	53.98	-200.23	-110	-90.23
2725	-88.56	-10.79	-46.58	-52.77	-85.52	-14.10	-152.39	53.98	-206.37	-110	-96.37
2737.5	-89.40	-10.79	-46.57	-53.62	-88.00	-21.37	-163.00	53.98	-216.97	-110	-106.97
2750	-88.83	-10.79	-46.28	-53.35	-81.51	-21.62	-156.47	53.98	-210.45	-110	-100.45
2762.5	-89.19	-10.79	-46.21	-53.77	-85.61	-18.23	-157.60	53.98	-211.58	-110	-101.58

2775	-88.61	-10.79	-46.59	-52.81	-80.29	-13.37	-146.47	53.98	-200.44	-110	-90.44
2787.5	-89.26	-10.79	-46.42	-53.63	-91.97	-14.24	-159.85	53.98	-213.82	-110	-103.82
2800	-90.07	-10.79	-46.41	-54.45	-84.68	-0.63	-139.76	53.98	-193.74	-110	-83.74
2812.5	-89.41	-10.79	-45.89	-54.31	-57.56	-2.65	-114.52	53.98	-168.50	-110	-58.50
2825	-89.18	-10.79	-46.12	-53.85	-61.26	-11.05	-126.16	53.98	-180.14	-110	-70.14
2837.5	-89.12	-10.79	-46.43	-53.47	-72.74	-17.08	-143.30	53.98	-197.28	-110	-87.28
2850	-89.76	-10.79	-45.88	-54.68	-75.16	-23.25	-153.08	53.98	-207.06	-110	-97.06
2862.5	-90.15	-10.79	-45.91	-55.03	-75.33	-31.70	-162.06	53.98	-216.04	-110	-106.04
2875	-90.11	-10.79	-46.02	-54.88	-73.32	-14.43	-142.63	53.98	-196.61	-110	-86.61
2887.5	-90.02	-10.79	-46.08	-54.73	-70.46	-7.42	-132.61	53.98	-186.59	-110	-76.59
2900	-90.63	-10.79	-45.99	-55.43	-70.96	-42.97	-169.35	53.98	-223.33	-110	-113.33
2912.5	-90.04	-10.79	-45.62	-55.21	-68.62	-37.65	-161.48	53.98	-215.46	-110	-105.46
2925	-90.65	-10.79	-45.51	-55.92	-64.41	-21.43	-141.76	53.98	-195.74	-110	-85.74
2937.5	-90.30	-10.79	-45.78	-55.31	-60.81	-10.15	-126.27	53.98	-180.25	-110	-70.25
2950	-89.83	-10.79	-45.91	-54.71	-55.82	-17.62	-128.15	53.98	-182.13	-110	-72.13
2962.5	-89.51	-10.79	-45.66	-54.64	-48.52	-16.34	-119.50	53.98	-173.47	-110	-63.47
2975	-88.30	-10.79	-45.46	-53.63	-28.90	-3.13	-85.66	53.98	-139.64	-110	-29.64
2987.5	-88.26	-10.79	-45.61	-53.43	-39.35	-22.84	-115.62	53.98	-169.60	-110	-59.60
3000	-87.48	-10.79	-45.71	-52.57	-43.19	-15.38	-111.13	53.98	-165.11	-110	-55.11
3012.5	-81.73	-10.79	-45.63	-46.89	-41.21	-25.59	-113.70	53.98	-167.68	-110	-57.68
3025	-73.42	-10.79	-45.47	-38.74	-25.57	-23.24	-87.55	53.98	-141.53	-110	-31.53
3037.5	-53.53	-10.79	-45.50	-18.83	-43.42	-38.19	-100.44	53.98	-154.42	-110	-44.42
3050	-50.84	-10.79	-45.44	-16.19	-49.17	-42.40	-107.76	53.98	-161.74	-110	-51.74
3062.5	-56.17	-10.79	-45.62	-21.34	-53.80	-37.75	-112.89	53.98	-166.87	-110	-56.87
3075	-77.67	-10.79	-45.50	-42.97	-56.23	-23.33	-122.53	53.98	-176.51	-110	-66.51
3087.5	-88.65	-10.79	-45.44	-54.00	-56.61	-28.94	-139.55	53.98	-193.53	-110	-83.53
3100	-89.29	-10.79	-45.39	-54.69	-58.18	-27.13	-140.00	53.98	-193.98	-110	-83.98
3112.5	-88.39	-10.79	-45.51	-53.67	-60.25	-25.97	-139.89	53.98	-193.87	-110	-83.87
3125	-88.35	-10.79	-45.62	-53.53	-60.07	-43.51	-157.11	53.98	-211.09	-110	-101.09
3137.5	-89.05	-10.79	-45.30	-54.53	-59.33	-36.45	-150.31	53.98	-204.29	-110	-94.29
3150	-88.44	-10.79	-45.01	-54.22	-59.41	-36.41	-150.04	53.98	-204.02	-110	-94.02
3162.5	-88.61	-10.79	-45.77	-53.63	-60.06	-50.56	-164.26	53.98	-218.24	-110	-108.24
3175	-89.40	-10.79	-45.87	-54.32	-59.53	-52.87	-166.72	53.98	-220.70	-110	-110.70
3187.5	-88.74	-10.79	-45.72	-53.81	-58.21	-26.43	-138.45	53.98	-192.43	-110	-82.43
3200	-89.73	-10.79	-44.96	-55.56	-57.71	-47.52	-160.78	53.98	-214.76	-110	-104.76
3212.5	-88.83	-10.79	-45.32	-54.30	-57.34	-44.21	-155.85	53.98	-209.83	-110	-99.83
3225	-89.14	-10.79	-46.00	-53.93	-56.64	-16.54	-127.11	53.98	-181.09	-110	-71.09
3237.5	-89.68	-10.79	-45.61	-54.86	-55.42	-32.66	-142.94	53.98	-196.92	-110	-86.92
3250	-89.15	-10.79	-45.13	-54.81	-54.07	-25.98	-134.86	53.98	-188.84	-110	-78.84
3262.5	-89.02	-10.79	-45.13	-54.67	-53.08	-64.02	-171.78	53.98	-225.76	-110	-115.76

3275	-89.35	-10.79	-45.72	-54.41	-51.02	-49.28	-154.71	53.98	-208.69	-110	-98.69
3287.5	-89.47	-10.79	-45.10	-55.16	-48.89	-44.95	-148.99	53.98	-202.97	-110	-92.97
3300	-89.52	-10.79	-45.23	-55.08	-47.38	-41.25	-143.71	53.98	-197.69	-110	-87.69
3312.5	-89.28	-10.79	-45.05	-55.02	-43.73	-38.28	-137.03	53.98	-191.01	-110	-81.01
3325	-89.50	-10.79	-45.45	-54.84	-39.20	-41.47	-135.51	53.98	-189.49	-110	-79.49
3337.5	-89.93	-10.79	-45.40	-55.32	-35.63	-48.41	-139.36	53.98	-193.33	-110	-83.33
3350	-89.46	-10.79	-45.13	-55.12	-28.83	-22.69	-106.64	53.98	-160.62	-110	-50.62
3362.5	-89.79	-10.79	-45.25	-55.33	-16.31	-26.74	-98.38	53.98	-152.36	-110	-42.36
3375	-89.19	-10.79	-45.50	-54.48	-6.27	-28.56	-89.31	53.98	-143.29	-110	-33.29
3387.5	-89.58	-10.79	-45.39	-54.97	-5.12	-26.16	-86.25	53.98	-140.23	-110	-30.23
3400	-89.85	-10.79	-45.37	-55.27	-16.62	-22.24	-94.12	53.98	-148.10	-110	-38.10
3412.5	-90.25	-10.79	-45.54	-55.50	-24.18	-20.81	-100.49	53.98	-154.47	-110	-44.47
3425	-89.25	-10.79	-45.37	-54.67	-28.64	-39.10	-122.42	53.98	-176.40	-110	-66.40
3437.5	-90.49	-10.79	-45.33	-55.96	-31.20	-23.14	-110.30	53.98	-164.28	-110	-54.28
3450	-89.63	-10.79	-45.53	-54.89	-31.11	-16.44	-102.44	53.98	-156.42	-110	-46.42
3462.5	-89.61	-10.79	-45.60	-54.80	-29.50	-27.81	-112.11	53.98	-166.09	-110	-56.09
3475	-90.14	-10.79	-45.31	-55.63	-22.04	-33.69	-111.36	53.98	-165.34	-110	-55.34
3487.5	-90.00	-10.79	-45.24	-55.55	-22.57	-28.17	-106.28	53.98	-160.26	-110	-50.26
3500	-90.31	-10.79	-45.44	-55.67	-35.40	-54.29	-145.36	53.98	-199.34	-110	-89.34
3512.5	-89.30	-10.79	-45.77	-54.32	-41.46	-30.45	-126.22	53.98	-180.20	-110	-70.20
3525	-89.05	-10.79	-45.41	-54.43	-44.71	-31.38	-130.52	53.98	-184.50	-110	-74.50
3537.5	-88.34	-10.79	-45.27	-53.86	-48.67	-37.62	-140.15	53.98	-194.13	-110	-84.13
3550	-79.86	-10.79	-45.43	-45.23	-52.44	-38.09	-135.76	53.98	-189.74	-110	-79.74
3562.5	-76.31	-10.79	-45.73	-41.37	-54.76	-30.14	-126.27	53.98	-180.25	-110	-70.25
3575	-78.19	-10.79	-45.69	-43.29	-55.99	-35.60	-134.88	53.98	-188.86	-110	-78.86
3587.5	-84.83	-10.79	-45.46	-50.16	-58.35	-21.17	-129.68	53.98	-183.66	-110	-73.66
3600	-88.80	-10.79	-45.60	-53.99	-61.07	-25.25	-140.31	53.98	-194.29	-110	-84.29
3612.5	-90.81	-10.79	-45.77	-55.83	-61.70	-37.62	-155.16	53.98	-209.14	-110	-99.14
3625	-90.84	-10.79	-45.99	-55.63	-61.95	-44.91	-162.50	53.98	-216.48	-110	-106.48
3637.5	-91.79	-10.79	-45.58	-57.00	-63.24	-14.47	-134.72	53.98	-188.69	-110	-78.69
3650	-91.99	-10.79	-45.67	-57.10	-64.27	-14.14	-135.51	53.98	-189.49	-110	-79.49
3662.5	-91.84	-10.79	-46.14	-56.48	-66.13	-36.99	-159.61	53.98	-213.58	-110	-103.58
3675	-92.13	-10.79	-46.24	-56.68	-66.67	-19.93	-143.28	53.98	-197.26	-110	-87.26
3687.5	-91.93	-10.79	-46.04	-56.68	-66.15	-6.12	-128.94	53.98	-182.92	-110	-72.92
3700	-92.11	-10.79	-45.77	-57.13	-66.23	-31.93	-155.29	53.98	-209.27	-110	-99.27
3712.5	-92.15	-10.79	-46.09	-56.85	-67.05	-36.41	-160.30	53.98	-214.28	-110	-104.28
3725	-92.24	-10.79	-46.32	-56.71	-66.24	-7.04	-130.00	53.98	-183.98	-110	-73.98
3737.5	-92.17	-10.79	-46.49	-56.47	-68.29	-22.49	-147.25	53.98	-201.23	-110	-91.23
3750	-92.15	-10.79	-46.00	-56.93	-66.64	-32.03	-155.60	53.98	-209.58	-110	-99.58
3762.5	-92.08	-10.79	-46.08	-56.79	-67.75	-19.41	-143.94	53.98	-197.92	-110	-87.92

3775	-91.76	-10.79	-46.59	-55.96	-67.95	-14.08	-137.99	53.98	-191.97	-110	-81.97
3787.5	-91.92	-10.79	-46.49	-56.23	-69.13	-1.77	-127.12	53.98	-181.10	-110	-71.10
3800	-91.95	-10.79	-46.41	-56.34	-69.43	-7.98	-133.75	53.98	-187.72	-110	-77.72
3812.5	-91.75	-10.79	-46.36	-56.18	-70.91	-10.51	-137.61	53.98	-191.58	-110	-81.58
3825	-91.47	-10.79	-46.44	-55.82	-72.10	-39.21	-167.13	53.98	-221.11	-110	-111.11
3837.5	-91.25	-10.79	-46.70	-55.34	-72.56	-29.87	-157.77	53.98	-211.75	-110	-101.75
3850	-91.44	-10.79	-47.01	-55.22	-70.99	-8.42	-134.64	53.98	-188.61	-110	-78.61
3862.5	-90.68	-10.79	-46.90	-54.57	-73.16	-18.43	-146.16	53.98	-200.14	-110	-90.14
3875	-90.67	-10.79	-46.54	-54.92	-73.23	-5.39	-133.54	53.98	-187.52	-110	-77.52
3887.5	-90.76	-10.79	-46.77	-54.78	-72.34	-5.53	-132.64	53.98	-186.62	-110	-76.62
3900	-90.26	-10.79	-47.27	-53.78	-70.66	-12.21	-136.65	53.98	-190.63	-110	-80.63
3912.5	-90.36	-10.79	-46.79	-54.37	-71.09	-28.59	-154.05	53.98	-208.03	-110	-98.03
3925	-90.24	-10.79	-46.83	-54.20	-73.86	-14.03	-142.09	53.98	-196.07	-110	-86.07
3937.5	-90.82	-10.79	-46.80	-54.81	-73.50	-25.11	-153.42	53.98	-207.40	-110	-97.40
3950	-90.20	-10.79	-47.67	-53.31	-72.38	-20.68	-146.38	53.98	-200.36	-110	-90.36
3962.5	-90.47	-10.79	-47.39	-53.87	-73.14	-34.18	-161.19	53.98	-215.17	-110	-105.17
3975	-90.59	-10.79	-47.08	-54.30	-74.07	-9.83	-138.21	53.98	-192.19	-110	-82.19
3987.5	-90.84	-10.79	-47.18	-54.45	-74.14	-23.72	-152.30	53.98	-206.28	-110	-96.28
4000	-90.95	-10.79	-47.94	-53.80	-70.75	-43.92	-168.47	53.98	-222.45	-110	-112.45
4012.5	-91.37	-10.79	-47.90	-54.26	-70.24	-9.44	-133.94	53.98	-187.92	-110	-77.92
4025	-91.99	-10.79	-47.47	-55.31	-69.41	-34.93	-159.65	53.98	-213.63	-110	-103.63
4037.5	-92.23	-10.79	-47.87	-55.15	-68.86	-24.39	-148.41	53.98	-202.39	-110	-92.39
4050	-92.42	-10.79	-47.98	-55.23	-67.49	-27.74	-150.46	53.98	-204.44	-110	-94.44
4062.5	-91.53	-10.79	-48.18	-54.14	-66.41	-23.99	-144.54	53.98	-198.52	-110	-88.52
4075	-86.39	-10.79	-48.23	-48.96	-65.18	-10.76	-124.90	53.98	-178.88	-110	-68.88
4087.5	-93.12	-10.79	-48.07	-55.85	-63.23	-9.44	-128.51	53.98	-182.49	-110	-72.49
4100	-93.08	-10.79	-48.43	-55.44	-63.01	-16.23	-134.67	53.98	-188.65	-110	-78.65
4112.5	-93.56	-10.79	-48.54	-55.81	-61.07	-1.19	-118.06	53.98	-172.04	-110	-62.04
4125	-93.67	-10.79	-48.76	-55.71	-57.54	-9.00	-122.25	53.98	-176.23	-110	-66.23
4137.5	-93.94	-10.79	-48.72	-56.01	-55.28	-3.35	-114.65	53.98	-168.63	-110	-58.63
4150	-93.69	-10.79	-48.65	-55.83	-51.67	-30.33	-137.83	53.98	-191.81	-110	-81.81
4162.5	-93.78	-10.79	-49.36	-55.21	-45.36	-37.81	-138.38	53.98	-192.36	-110	-82.36
4175	-93.49	-10.79	-49.52	-54.76	-22.19	-9.50	-86.45	53.98	-140.43	-110	-30.43
4187.5	-93.30	-10.79	-49.24	-54.85	-46.46	-1.91	-103.23	53.98	-157.21	-110	-47.21
4200	-93.28	-10.79	-48.96	-55.10	-64.45	-12.15	-131.70	53.98	-185.68	-110	-75.68
4212.5	-93.47	-10.79	-49.33	-54.93	-36.79	-18.35	-110.06	53.98	-164.04	-110	-54.04
4225	-92.98	-10.79	-49.83	-53.94	-45.11	-23.09	-122.15	53.98	-176.12	-110	-66.12
4237.5	-92.86	-10.79	-49.76	-53.89	-47.33	-25.86	-127.09	53.98	-181.07	-110	-71.07
4250	-92.39	-10.79	-49.75	-53.44	-48.75	-28.68	-130.87	53.98	-184.85	-110	-74.85
4262.5	-91.43	-10.79	-49.71	-52.51	-49.86	-20.37	-122.73	53.98	-176.71	-110	-66.71

4275	-92.10	-10.79	-49.86	-53.02	-47.86	-7.02	-107.90	53.98	-161.88	-110	-51.88
4287.5	-91.65	-10.79	-50.46	-51.98	-45.96	-12.37	-110.31	53.98	-164.29	-110	-54.29
4300	-91.03	-10.79	-50.05	-51.77	-45.77	-10.67	-108.21	53.98	-162.19	-110	-52.19
4312.5	-91.39	-10.79	-50.06	-52.11	-44.01	-17.46	-113.58	53.98	-167.56	-110	-57.56
4325	-91.59	-10.79	-50.37	-52.01	-40.69	-8.51	-101.21	53.98	-155.19	-110	-45.19
4337.5	-91.04	-10.79	-50.81	-51.02	-37.54	-3.12	-91.68	53.98	-145.66	-110	-35.66
4350	-90.85	-10.79	-50.57	-51.08	-35.44	-20.18	-106.70	53.98	-160.68	-110	-50.68
4362.5	-91.27	-10.79	-50.48	-51.58	-31.78	-4.16	-87.52	53.98	-141.50	-110	-31.50
4375	-91.17	-10.79	-50.53	-51.44	-26.63	-8.22	-86.29	53.98	-140.27	-110	-30.27
4387.5	-91.72	-10.79	-51.03	-51.49	-22.34	-4.15	-77.98	53.98	-131.96	-110	-21.96
4400	-91.55	-10.79	-51.06	-51.27	-16.71	-7.68	-75.66	53.98	-129.64	-110	-19.64
4412.5	-92.21	-10.79	-50.79	-52.21	-11.52	-12.68	-76.41	53.98	-130.39	-110	-20.39
4425	-92.50	-10.79	-50.95	-52.34	-6.21	-20.44	-78.99	53.98	-132.97	-110	-22.97
4437.5	-92.03	-10.79	-51.09	-51.74	-9.63	-8.31	-69.68	53.98	-123.66	-110	-13.66
4450	-92.42	-10.79	-52.00	-51.21	-10.52	-4.02	-65.75	53.98	-119.73	-110	-9.73
4462.5	-92.94	-10.79	-51.55	-52.18	-12.36	-5.87	-70.42	53.98	-124.40	-110	-14.40
4475	-93.29	-10.79	-51.57	-52.50	-10.71	-6.59	-69.81	53.98	-123.79	-110	-13.79
4487.5	-93.24	-10.79	-52.68	-51.35	-5.26	-27.13	-83.74	53.98	-137.72	-110	-27.72
4500	-93.23	-10.79	-53.00	-51.01	-30.77	-4.36	-86.15	53.98	-140.13	-110	-30.13
4512.5	-93.70	-10.79	-53.67	-50.82	-17.33	-4.79	-72.94	53.98	-126.92	-110	-16.92
4525	-93.71	-10.79	-53.36	-51.14	-30.50	-2.95	-84.59	53.98	-138.57	-110	-28.57
4537.5	-93.34	-10.79	-54.36	-49.78	-36.79	-9.87	-96.43	53.98	-150.41	-110	-40.41
4550	-93.11	-10.79	-54.83	-49.07	-40.01	-6.58	-95.66	53.98	-149.64	-110	-39.64
4562.5	-93.08	-10.79	-55.13	-48.74	-43.07	-26.42	-118.22	53.98	-172.20	-110	-62.20
4575	-93.00	-10.79	-54.76	-49.03	-46.70	-18.68	-114.41	53.98	-168.39	-110	-58.39
4587.5	-92.94	-10.79	-54.56	-49.18	-49.83	-18.19	-117.20	53.98	-171.18	-110	-61.18
4600	-92.91	-10.79	-55.81	-47.89	-52.29	-10.43	-110.61	53.98	-164.59	-110	-54.59
4612.5	-92.87	-10.79	-55.71	-47.95	-51.43	-5.51	-104.88	53.98	-158.86	-110	-48.86
4625	-92.73	-10.79	-55.82	-47.70	-54.48	-3.50	-105.69	53.98	-159.67	-110	-49.67
4637.5	-92.71	-10.79	-55.51	-47.99	-56.11	-5.93	-110.03	53.98	-164.01	-110	-54.01
4650	-92.09	-10.79	-55.71	-47.17	-56.73	-14.19	-118.10	53.98	-172.08	-110	-62.08
4662.5	-91.75	-10.79	-56.28	-46.26	-58.02	-17.02	-121.31	53.98	-175.29	-110	-65.29
4675	-91.33	-10.79	-56.39	-45.73	-58.81	-12.20	-116.74	53.98	-170.72	-110	-60.72
4687.5	-90.72	-10.79	-56.37	-45.14	-61.03	-30.84	-137.01	53.98	-190.99	-110	-80.99
4700	-90.94	-10.79	-56.38	-45.35	-61.57	-36.14	-143.06	53.98	-197.04	-110	-87.04
4712.5	-90.38	-10.79	-56.76	-44.41	-62.85	-35.86	-143.12	53.98	-197.09	-110	-87.09
4725	-91.08	-10.79	-57.15	-44.72	-72.77	-32.78	-150.26	53.98	-204.24	-110	-94.24
4737.5	-90.36	-10.79	-57.25	-43.90	-64.28	-35.42	-143.60	53.98	-197.58	-110	-87.58
4750	-90.65	-10.79	-57.77	-43.68	-62.67	-32.77	-139.11	53.98	-193.09	-110	-83.09
4762.5	-91.12	-10.79	-60.84	-41.07	-64.32	-33.23	-138.63	53.98	-192.60	-110	-82.60

4775	-91.06	-10.79	-61.08	-40.78	-64.34	-21.13	-126.25	53.98	-180.23	-110	-70.23
4787.5	-91.18	-10.79	-60.36	-41.61	-64.66	-32.43	-138.70	53.98	-192.68	-110	-82.68
4800	-91.03	-10.79	-59.73	-42.09	-66.18	-42.99	-151.25	53.98	-205.23	-110	-95.23
4812.5	-91.42	-10.79	-59.54	-42.67	-65.93	-29.45	-138.04	53.98	-192.02	-110	-82.02
4825	-91.83	-10.79	-60.34	-42.28	-65.57	-32.35	-140.20	53.98	-194.18	-110	-84.18
4837.5	-92.20	-10.79	-59.97	-43.02	-66.10	-39.54	-148.66	53.98	-202.64	-110	-92.64
4850	-92.29	-10.79	-58.87	-44.21	-67.86	-17.01	-129.07	53.98	-183.05	-110	-73.05
4862.5	-92.26	-10.79	-59.05	-44.00	-67.03	-10.11	-121.14	53.98	-175.12	-110	-65.12
4875	-92.70	-10.79	-58.95	-44.54	-65.36	-13.93	-123.82	53.98	-177.80	-110	-67.80
4887.5	-92.54	-10.79	-59.14	-44.19	-65.80	-11.32	-121.32	53.98	-175.30	-110	-65.30
4900	-92.95	-10.79	-58.24	-45.49	-65.96	-3.73	-115.19	53.98	-169.16	-110	-59.16
4912.5	-92.89	-10.79	-57.81	-45.87	-64.02	-11.60	-121.50	53.98	-175.48	-110	-65.48
4925	-93.06	-10.79	-58.44	-45.41	-62.44	-11.48	-119.34	53.98	-173.32	-110	-63.32
4937.5	-92.99	-10.79	-58.08	-45.70	-62.17	-11.75	-119.62	53.98	-173.60	-110	-63.60
4950	-93.01	-10.79	-58.04	-45.76	-61.58	-11.89	-119.23	53.98	-173.21	-110	-63.21
4962.5	-93.29	-10.79	-57.08	-47.01	-59.94	-13.94	-120.89	53.98	-174.87	-110	-64.87
4975	-93.30	-10.79	-56.95	-47.13	-57.26	-14.09	-118.48	53.98	-172.46	-110	-62.46
4987.5	-93.17	-10.79	-57.05	-46.91	-54.80	-6.77	-108.48	53.98	-162.46	-110	-52.46
5000	-92.79	-10.79	-56.91	-46.67	-51.90	-12.63	-111.21	53.98	-165.19	-110	-55.19
5012.5	-93.15	-10.79	-56.82	-47.13	-47.44	-14.67	-109.24	53.98	-163.22	-110	-53.22
5025	-92.86	-10.79	-56.12	-47.52	-39.57	-17.59	-104.69	53.98	-158.67	-110	-48.67
5037.5	-92.68	-10.79	-55.95	-47.53	-20.68	-25.75	-93.96	53.98	-147.93	-110	-37.93
5050	-92.57	-10.79	-56.14	-47.22	-20.57	-18.45	-86.24	53.98	-140.22	-110	-30.22
5062.5	-92.27	-10.79	-56.10	-46.95	-40.68	-5.91	-93.54	53.98	-147.52	-110	-37.52
5075	-92.16	-10.79	-55.50	-47.45	-49.35	-20.83	-117.62	53.98	-171.60	-110	-61.60
5087.5	-91.88	-10.79	-54.95	-47.72	-56.39	-19.09	-123.20	53.98	-177.18	-110	-67.18
5100	-92.11	-10.79	-55.42	-47.48	-61.10	-22.83	-131.42	53.98	-185.40	-110	-75.40
5112.5	-91.25	-10.79	-55.43	-46.61	-65.74	-18.06	-130.41	53.98	-184.39	-110	-74.39
5125	-91.38	-10.79	-55.30	-46.87	-68.57	-36.17	-151.61	53.98	-205.59	-110	-95.59
5137.5	-90.95	-10.79	-54.59	-47.15	-72.17	-26.95	-146.26	53.98	-200.24	-110	-90.24
5150	-91.64	-10.79	-54.72	-47.71	-75.17	-9.29	-132.17	53.98	-186.15	-110	-76.15
5162.5	-91.18	-10.79	-55.40	-46.57	-78.87	-47.08	-172.52	53.98	-226.50	-110	-116.50
5175	-91.55	-10.79	-55.25	-47.09	-79.26	-39.70	-166.05	53.98	-220.03	-110	-110.03
5187.5	-91.29	-10.79	-54.77	-47.31	-79.76	-7.88	-134.95	53.98	-188.93	-110	-78.93
5200	-91.28	-10.79	-54.72	-47.35	-82.56	-52.02	-181.93	53.98	-235.91	-110	-125.91
5212.5	-91.76	-10.79	-55.12	-47.43	-86.38	-17.93	-151.74	53.98	-205.72	-110	-95.72
5225	-91.89	-10.79	-55.92	-46.76	-85.62	-16.39	-148.77	53.98	-202.75	-110	-92.75
5237.5	-92.03	-10.79	-55.88	-46.94	-99.83	-11.00	-157.77	53.98	-211.75	-110	-101.75
5250	-92.66	-10.79	-55.79	-47.67	-93.66	-27.06	-168.39	53.98	-222.37	-110	-112.37
5262.5	-93.07	-10.79	-56.85	-47.02	-82.21	-3.70	-132.92	53.98	-186.90	-110	-76.90

5275	-93.15	-10.79	-57.76	-46.18	-81.21	-10.22	-137.60	53.98	-191.58	-110	-81.58
5287.5	-93.54	-10.79	-59.57	-44.75	-98.54	-38.37	-181.66	53.98	-235.64	-110	-125.64
5300	-93.58	-10.79	-60.61	-43.76	-81.79	-22.60	-148.15	53.98	-202.13	-110	-92.13
5312.5	-93.88	-10.79	-61.17	-43.49	-86.45	-15.06	-145.00	53.98	-198.98	-110	-88.98
5325	-93.91	-10.79	-63.87	-40.84	-83.52	-19.60	-143.95	53.98	-197.93	-110	-87.93
5337.5	-93.85	-10.79	-66.10	-38.54	-85.54	-18.29	-142.38	53.98	-196.36	-110	-86.36
5350	-94.18	-10.79	-69.77	-35.20	-91.91	-8.14	-135.26	53.98	-189.24	-110	-79.24
5362.5	-93.98	-10.79	-69.12	-35.66	-89.66	-37.57	-162.88	53.98	-216.86	-110	-106.86
5375	-94.15	-10.79	-68.09	-36.85	-79.45	-16.69	-132.99	53.98	-186.97	-110	-76.97
5387.5	-93.93	-10.79	-65.34	-39.38	-83.79	-5.57	-128.73	53.98	-182.71	-110	-72.71
5400	-94.14	-10.79	-62.49	-42.44	-88.29	-11.50	-142.24	53.98	-196.22	-110	-86.22
5412.5	-93.84	-10.79	-60.64	-43.99	-94.52	-14.09	-152.59	53.98	-206.57	-110	-96.57
5425	-93.46	-10.79	-59.89	-44.36	-90.71	-13.30	-148.37	53.98	-202.35	-110	-92.35
5437.5	-93.40	-10.79	-59.64	-44.55	-78.66	-6.21	-129.41	53.98	-183.39	-110	-73.39
5450	-92.86	-10.79	-59.49	-44.17	-85.69	-24.88	-154.74	53.98	-208.72	-110	-98.72
5462.5	-93.03	-10.79	-59.21	-44.60	-90.58	-8.59	-143.78	53.98	-197.75	-110	-87.75
5475	-92.42	-10.79	-58.92	-44.29	-83.75	-11.98	-140.02	53.98	-194.00	-110	-84.00
5487.5	-92.34	-10.79	-58.68	-44.45	-89.58	-29.54	-163.57	53.98	-217.55	-110	-107.55
5500	-91.40	-10.79	-59.01	-43.18	-86.68	-8.34	-138.21	53.98	-192.18	-110	-82.18
5512.5	-90.97	-10.79	-60.35	-41.41	-88.95	-7.33	-137.68	53.98	-191.66	-110	-81.66
5525	-91.34	-10.79	-60.41	-41.72	-86.56	-2.34	-130.63	53.98	-184.61	-110	-74.61
5537.5	-91.11	-10.79	-60.57	-41.33	-84.27	-11.16	-136.76	53.98	-190.74	-110	-80.74
5550	-90.42	-10.79	-61.42	-39.78	-102.61	-14.27	-156.67	53.98	-210.64	-110	-100.64
5562.5	-91.50	-10.79	-62.12	-40.17	-85.73	-7.19	-133.08	53.98	-187.06	-110	-77.06
5575	-91.29	-10.79	-63.45	-38.62	-90.23	-12.77	-141.62	53.98	-195.60	-110	-85.60
5587.5	-90.61	-10.79	-64.12	-37.28	-91.01	-12.31	-140.60	53.98	-194.58	-110	-84.58
5600	-90.45	-10.79	-66.37	-34.86	-82.80	-31.98	-149.65	53.98	-203.63	-110	-93.63
5612.5	-91.06	-10.79	-68.70	-33.15	-90.61	-11.13	-134.89	53.98	-188.87	-110	-78.87
5625	-91.72	-10.79	-69.74	-32.77	-83.19	-16.33	-132.29	53.98	-186.27	-110	-76.27
5637.5	-92.32	-10.79	-72.35	-30.76	-94.40	-18.70	-143.86	53.98	-197.84	-110	-87.84
5650	-92.29	-10.79	-74.07	-29.01	-89.40	-23.19	-141.59	53.98	-195.57	-110	-85.57
5662.5	-92.81	-10.79	-74.40	-29.20	-85.20	-4.38	-118.79	53.98	-172.77	-110	-62.77
5675	-92.91	-10.79	-71.34	-32.35	-98.16	-8.15	-138.67	53.98	-192.65	-110	-82.65
5687.5	-93.03	-10.79	-68.80	-35.02	-86.39	-28.02	-149.43	53.98	-203.41	-110	-93.41
5700	-93.24	-10.79	-65.35	-38.68	-89.60	-19.00	-147.29	53.98	-201.27	-110	-91.27
5712.5	-93.26	-10.79	-61.84	-42.21	-81.86	-16.40	-140.47	53.98	-194.45	-110	-84.45
5725	-93.53	-10.79	-60.61	-43.71	-84.14	-7.66	-135.51	53.98	-189.48	-110	-79.48
5737.5	-93.44	-10.79	-58.67	-45.56	-95.65	-6.84	-148.06	53.98	-202.04	-110	-92.04
5750	-93.41	-10.79	-57.48	-46.72	-90.36	-13.82	-150.90	53.98	-204.88	-110	-94.88
5762.5	-93.09	-10.79	-55.41	-48.47	-90.19	-3.21	-141.87	53.98	-195.85	-110	-85.85

5775	-93.63	-10.79	-54.69	-49.73	-83.53	-5.41	-138.67	53.98	-192.65	-110	-82.65
5787.5	-93.48	-10.79	-53.33	-50.94	-81.95	-15.74	-148.64	53.98	-202.62	-110	-92.62
5800	-93.40	-10.79	-52.12	-52.07	-83.43	-3.70	-139.21	53.98	-193.19	-110	-83.19
5812.5	-93.36	-10.79	-51.62	-52.54	-82.57	-12.49	-147.59	53.98	-201.57	-110	-91.57
5825	-93.66	-10.79	-51.03	-53.43	-84.59	-17.66	-155.67	53.98	-209.65	-110	-99.65
5837.5	-93.34	-10.79	-50.30	-53.83	-94.25	-8.43	-156.51	53.98	-210.49	-110	-100.49
5850	-93.21	-10.79	-51.04	-52.96	-88.98	-4.58	-146.51	53.98	-200.49	-110	-90.49
5862.5	-93.01	-10.79	-50.61	-53.20	-80.61	-2.99	-136.80	53.98	-190.78	-110	-80.78
5875	-92.91	-10.79	-50.90	-52.80	-77.80	-4.37	-134.97	53.98	-188.95	-110	-78.95
5887.5	-92.38	-10.79	-51.41	-51.77	-84.76	-36.33	-172.85	53.98	-226.83	-110	-116.83
5900	-91.62	-10.79	-52.53	-49.88	-82.80	-34.51	-167.20	53.98	-221.17	-110	-111.17
5912.5	-91.50	-10.79	-54.07	-48.22	-91.50	-10.70	-150.42	53.98	-204.40	-110	-94.40
5925	-91.45	-10.79	-54.15	-48.08	-84.61	-21.82	-154.51	53.98	-208.49	-110	-98.49
5937.5	-90.34	-10.79	-54.43	-46.70	-86.39	-26.71	-159.80	53.98	-213.78	-110	-103.78
5950	-90.06	-10.79	-56.51	-44.34	-91.27	-27.74	-163.35	53.98	-217.33	-110	-107.33
5962.5	-91.07	-10.79	-58.87	-42.99	-91.37	-12.19	-146.55	53.98	-200.53	-110	-90.53
5975	-89.99	-10.79	-59.10	-41.67	-89.25	-23.33	-154.26	53.98	-208.24	-110	-98.24
5987.5	-90.37	-10.79	-56.15	-45.01	-58.84	-22.99	-126.84	53.98	-180.82	-110	-70.82
6000	-91.06	-10.79	-64.78	-37.07	-67.41	-19.44	-123.92	53.98	-177.90	-110	-67.90

Table 1
500 - 518 MHz _ ATSC 3.0

Freq	1	2	3	4	5	6	7	8	9	Limit	Margin
MHz	dBm	dB	dB	dBm	dB	dB	dB	dBm	dBm	dBc	dB
500	-62.58	-10.79	-49.15	-24.21	-0.08	-80.07	-104.36	53.22	-157.58	-110.40	-47.18
500.045	-62.89	-10.79	-49.34	-24.34	-0.08	-81.35	-105.77	53.22	-158.99	-109.88	-49.11
500.09	-63.22	-10.79	-49.42	-24.59	-0.09	-81.07	-105.75	53.22	-158.97	-109.37	-49.61
500.135	-63.18	-10.79	-49.40	-24.57	-0.08	-81.81	-106.45	53.22	-159.68	-108.85	-50.83
500.18	-62.84	-10.79	-49.40	-24.23	-0.07	-81.73	-106.04	53.22	-159.26	-108.33	-50.93
500.225	-63.22	-10.79	-49.37	-24.64	-0.08	-81.73	-106.44	53.22	-159.67	-107.81	-51.85
500.27	-63.49	-10.79	-49.42	-24.86	-0.07	-81.67	-106.60	53.22	-159.82	-107.30	-52.52
500.315	-62.67	-10.79	-49.39	-24.07	-0.06	-81.76	-105.90	53.22	-159.12	-106.78	-52.34
500.36	-63.01	-10.79	-49.36	-24.44	-0.08	-82.03	-106.55	53.22	-159.78	-106.26	-53.52
500.405	-62.89	-10.79	-49.34	-24.34	-0.07	-79.97	-104.38	53.22	-157.60	-105.74	-51.86
500.45	-62.28	-10.79	-49.43	-23.64	-0.09	-82.21	-105.94	53.22	-159.16	-105.23	-53.93
500.495	-62.31	-10.79	-49.41	-23.68	-0.08	-81.35	-105.11	53.22	-158.34	-104.71	-53.63
500.54	-62.60	-10.79	-49.34	-24.05	-0.07	-81.72	-105.84	53.22	-159.07	-104.19	-54.88
500.585	-62.30	-10.79	-49.37	-23.71	-0.08	-81.63	-105.42	53.22	-158.65	-103.67	-54.97
500.63	-62.47	-10.79	-49.38	-23.88	-0.08	-80.79	-104.75	53.22	-157.98	-103.16	-54.82
500.675	-63.10	-10.79	-49.41	-24.48	-0.08	-81.94	-106.50	53.22	-159.72	-102.64	-57.09
500.72	-63.15	-10.79	-49.40	-24.54	-0.08	-81.92	-106.53	53.22	-159.75	-102.12	-57.63
500.765	-62.86	-10.79	-49.47	-24.18	-0.08	-81.90	-106.16	53.22	-159.38	-101.60	-57.78
500.81	-63.03	-10.79	-49.43	-24.40	-0.09	-81.79	-106.27	53.22	-159.50	-101.09	-58.41
500.855	-63.04	-10.79	-49.42	-24.41	-0.07	-82.03	-106.51	53.22	-159.73	-100.57	-59.16
500.9	-62.65	-10.79	-49.41	-24.03	-0.09	-81.79	-105.91	53.22	-159.13	-100.05	-59.08
500.945	-63.28	-10.79	-49.41	-24.65	-0.07	-81.68	-106.40	53.22	-159.62	-99.53	-60.09
500.99	-62.87	-10.79	-49.43	-24.23	-0.08	-80.91	-105.22	53.22	-158.44	-99.01	-59.43
501.035	-62.50	-10.79	-49.42	-23.87	-0.07	-80.94	-104.88	53.22	-158.10	-98.50	-59.60
501.08	-62.22	-10.79	-49.34	-23.67	-0.05	-81.72	-105.44	53.22	-158.66	-97.98	-60.68
501.125	-62.66	-10.79	-49.32	-24.13	-0.05	-81.20	-105.39	53.22	-158.61	-97.46	-61.15
501.17	-62.62	-10.79	-49.40	-24.01	-0.06	-81.74	-105.81	53.22	-159.03	-96.94	-62.09
501.215	-62.41	-10.79	-49.39	-23.80	-0.07	-80.83	-104.70	53.22	-157.93	-96.43	-61.50
501.26	-62.58	-10.79	-49.41	-23.96	-0.08	-81.22	-105.26	53.22	-158.49	-95.91	-62.58
501.305	-62.31	-10.79	-49.45	-23.65	-0.09	-80.75	-104.49	53.22	-157.71	-95.39	-62.32
501.35	-62.65	-10.79	-49.43	-24.00	-0.08	-80.89	-104.97	53.22	-158.19	-94.87	-63.32
501.395	-62.44	-10.79	-49.38	-23.85	-0.07	-81.35	-105.26	53.22	-158.48	-94.36	-64.13
501.44	-61.97	-10.79	-49.40	-23.36	-0.08	-80.78	-104.22	53.22	-157.44	-93.84	-63.60
501.485	-62.13	-10.79	-49.30	-23.63	-0.07	-81.70	-105.39	53.22	-158.62	-93.32	-65.29
501.53	-62.55	-10.79	-49.33	-24.02	-0.08	-81.60	-105.70	53.22	-158.92	-92.81	-66.11
501.575	-62.49	-10.79	-49.40	-23.87	-0.08	-81.65	-105.60	53.22	-158.82	-92.29	-66.54

501.62	-62.04	-10.79	-49.41	-23.42	-0.07	-80.87	-104.36	53.22	-157.59	-91.77	-65.82
501.665	-61.87	-10.79	-49.32	-23.34	-0.07	-81.73	-105.13	53.22	-158.35	-91.25	-67.10
501.71	-62.07	-10.79	-49.39	-23.47	-0.07	-80.90	-104.45	53.22	-157.67	-90.74	-66.93
501.755	-62.11	-10.79	-49.34	-23.56	-0.07	-81.88	-105.51	53.22	-158.73	-90.22	-68.51
501.8	-62.08	-10.79	-49.33	-23.55	-0.06	-81.74	-105.35	53.22	-158.57	-89.70	-68.87
501.845	-62.03	-10.79	-49.36	-23.46	-0.08	-81.63	-105.17	53.22	-158.39	-89.18	-69.21
501.89	-61.65	-10.79	-49.36	-23.09	-0.08	-81.96	-105.13	53.22	-158.35	-88.67	-69.69
501.935	-61.66	-10.79	-49.37	-23.08	-0.06	-81.16	-104.29	53.22	-157.52	-88.15	-69.37
501.98	-61.90	-10.79	-49.43	-23.27	-0.08	-81.06	-104.41	53.22	-157.63	-87.63	-70.00
502.025	-62.15	-10.79	-49.43	-23.51	-0.08	-80.98	-104.57	53.22	-157.79	-87.11	-70.68
502.07	-61.22	-10.79	-49.45	-22.55	-0.08	-81.28	-103.92	53.22	-157.14	-86.60	-70.54
502.115	-61.14	-10.79	-49.38	-22.55	-0.07	-81.15	-103.76	53.22	-156.99	-86.08	-70.91
502.16	-61.01	-10.79	-49.30	-22.50	-0.06	-81.24	-103.80	53.22	-157.03	-85.56	-71.47
502.205	-60.77	-10.79	-49.40	-22.16	-0.07	-81.14	-103.36	53.22	-156.59	-85.04	-71.54
502.25	-61.11	-10.79	-49.43	-22.47	-0.07	-81.47	-104.02	53.22	-157.24	-84.53	-72.72
502.295	-61.38	-10.79	-49.44	-22.73	-0.09	-81.56	-104.38	53.22	-157.60	-84.01	-73.59
502.34	-61.33	-10.79	-49.38	-22.74	-0.08	-81.20	-104.01	53.22	-157.24	-83.49	-73.75
502.385	-61.43	-10.79	-49.39	-22.83	-0.08	-81.11	-104.02	53.22	-157.24	-82.97	-74.27
502.43	-61.71	-10.79	-49.37	-23.13	-0.07	-81.61	-104.82	53.22	-158.04	-82.45	-75.58
502.475	-61.26	-10.79	-49.42	-22.63	-0.08	-81.48	-104.18	53.22	-157.40	-81.94	-75.47
502.52	-61.27	-10.79	-49.36	-22.70	-0.08	-81.34	-104.11	53.22	-157.33	-81.42	-75.91
502.565	-62.03	-10.79	-49.35	-23.48	-0.06	-80.93	-104.47	53.22	-157.69	-80.90	-76.79
502.61	-62.37	-10.79	-49.41	-23.75	-0.07	-81.49	-105.32	53.22	-158.54	-80.38	-78.15
502.655	-61.24	-10.79	-49.38	-22.65	-0.08	-81.53	-104.25	53.22	-157.47	-79.87	-77.60
502.7	-61.03	-10.79	-49.34	-22.48	-0.07	-80.87	-103.42	53.22	-156.64	-79.35	-77.29
502.745	-61.07	-10.79	-49.39	-22.47	-0.07	-81.42	-103.96	53.22	-157.18	-78.83	-78.35
502.79	-61.12	-10.79	-49.39	-22.52	-0.05	-80.86	-103.43	53.22	-156.66	-78.31	-78.34
502.835	-61.24	-10.79	-49.43	-22.60	-0.08	-80.96	-103.64	53.22	-156.86	-77.80	-79.06
502.88	-61.12	-10.79	-49.41	-22.49	-0.07	-80.93	-103.50	53.22	-156.72	-77.28	-79.44
502.925	-61.05	-10.79	-49.33	-22.51	-0.08	-80.51	-103.09	53.22	-156.31	-76.76	-79.55
502.97	-61.03	-10.79	-49.32	-22.50	-0.06	-80.46	-103.02	53.22	-156.24	-76.24	-80.00
503.015	-61.30	-10.79	-49.36	-22.73	-0.05	-80.67	-103.45	53.22	-156.67	-75.73	-80.95
503.06	-61.42	-10.79	-49.36	-22.85	-0.06	-81.05	-103.96	53.22	-157.18	-75.21	-81.97
503.105	-60.79	-10.79	-49.31	-22.27	-0.06	-80.49	-102.82	53.22	-156.04	-74.69	-81.35
503.15	-60.19	-10.79	-49.31	-21.66	-0.06	-80.52	-102.25	53.22	-155.47	-74.18	-81.30
503.195	-60.23	-10.79	-49.37	-21.65	-0.07	-80.65	-102.37	53.22	-155.59	-73.66	-81.93
503.24	-60.55	-10.79	-49.40	-21.94	-0.07	-81.07	-103.08	53.22	-156.30	-73.14	-83.16
503.285	-60.88	-10.79	-49.42	-22.26	-0.07	-81.23	-103.56	53.22	-156.79	-72.62	-84.16
503.33	-60.57	-10.79	-49.37	-21.99	-0.07	-81.14	-103.21	53.22	-156.43	-72.11	-84.32
503.375	-61.11	-10.79	-49.38	-22.53	-0.06	-81.01	-103.59	53.22	-156.82	-71.59	-85.23

503.42	-61.28	-10.79	-49.41	-22.65	-0.07	-81.39	-104.12	53.22	-157.34	-71.07	-86.27
503.465	-60.36	-10.79	-49.35	-21.80	-0.06	-80.78	-102.63	53.22	-155.86	-70.55	-85.30
503.51	-59.81	-10.79	-49.34	-21.26	-0.07	-81.35	-102.67	53.22	-155.90	-70.04	-85.86
503.555	-60.21	-10.79	-49.34	-21.65	-0.06	-79.81	-101.53	53.22	-154.75	-69.52	-85.24
503.6	-60.66	-10.79	-49.39	-22.06	-0.08	-81.13	-103.27	53.22	-156.49	-69.00	-87.49
503.645	-61.12	-10.79	-49.38	-22.53	-0.06	-80.24	-102.83	53.22	-156.06	-68.48	-87.57
503.69	-61.24	-10.79	-49.38	-22.64	-0.07	-80.38	-103.10	53.22	-156.32	-67.97	-88.36
503.735	-61.18	-10.79	-49.32	-22.64	-0.06	-80.36	-103.07	53.22	-156.29	-67.45	-88.84
503.78	-60.97	-10.79	-49.40	-22.37	-0.07	-80.66	-103.10	53.22	-156.32	-66.93	-89.39
503.825	-60.86	-10.79	-49.36	-22.29	-0.06	-81.00	-103.35	53.22	-156.57	-66.41	-90.16
503.87	-60.69	-10.79	-49.36	-22.13	-0.06	-80.81	-103.00	53.22	-156.22	-65.89	-90.32
503.915	-60.19	-10.79	-49.42	-21.56	-0.08	-81.34	-102.98	53.22	-156.21	-65.38	-90.83
503.96	-60.42	-10.79	-49.40	-21.81	-0.07	-80.13	-102.01	53.22	-155.23	-64.86	-90.37
504.005	-60.51	-10.79	-49.38	-21.92	-0.07	-79.90	-101.89	53.22	-155.11	-64.34	-90.77
504.05	-60.29	-10.79	-49.41	-21.67	-0.07	-80.54	-102.27	53.22	-155.50	-63.82	-91.67
504.095	-59.81	-10.79	-49.36	-21.23	-0.07	-79.52	-100.82	53.22	-154.04	-63.31	-90.73
504.14	-60.02	-10.79	-49.39	-21.42	-0.07	-81.31	-102.80	53.22	-156.03	-62.79	-93.24
504.185	-60.11	-10.79	-49.33	-21.57	-0.05	-80.89	-102.51	53.22	-155.73	-62.27	-93.46
504.23	-60.44	-10.79	-49.41	-21.82	-0.07	-80.92	-102.81	53.22	-156.03	-61.75	-94.28
504.275	-60.44	-10.79	-49.30	-21.92	-0.07	-80.49	-102.49	53.22	-155.71	-61.24	-94.47
504.32	-60.72	-10.79	-49.38	-22.13	-0.07	-78.54	-100.74	53.22	-153.96	-60.72	-93.24
504.365	-60.89	-10.79	-49.43	-22.26	-0.08	-79.89	-102.22	53.22	-155.45	-60.20	-95.24
504.41	-60.74	-10.79	-49.29	-22.23	-0.06	-80.81	-103.09	53.22	-156.32	-59.68	-96.63
504.455	-60.36	-10.79	-49.33	-21.82	-0.06	-81.03	-102.91	53.22	-156.14	-59.17	-96.97
504.5	-60.60	-10.79	-49.30	-22.09	-0.05	-79.59	-101.73	53.22	-154.95	-58.65	-96.30
504.545	-60.34	-10.79	-49.40	-21.74	-0.06	-79.11	-100.90	53.22	-154.13	-58.13	-95.99
504.59	-60.02	-10.79	-49.35	-21.46	-0.07	-80.12	-101.65	53.22	-154.88	-57.62	-97.26
504.635	-60.18	-10.79	-49.40	-21.58	-0.07	-80.61	-102.25	53.22	-155.47	-57.10	-98.38
504.68	-59.78	-10.79	-49.32	-21.25	-0.06	-78.26	-99.58	53.22	-152.80	-56.58	-96.22
504.725	-59.81	-10.79	-49.29	-21.30	-0.07	-81.21	-102.58	53.22	-155.80	-56.06	-99.74
504.77	-60.26	-10.79	-49.32	-21.72	-0.07	-80.95	-102.75	53.22	-155.97	-55.55	-100.43
504.815	-59.95	-10.79	-49.34	-21.39	-0.07	-79.20	-100.66	53.22	-153.88	-55.03	-98.86
504.86	-59.74	-10.79	-49.38	-21.15	-0.06	-79.26	-100.48	53.22	-153.70	-54.51	-99.19
504.905	-60.12	-10.79	-49.33	-21.58	-0.06	-80.15	-101.79	53.22	-155.01	-53.99	-101.02
504.95	-60.42	-10.79	-49.41	-21.80	-0.07	-79.73	-101.60	53.22	-154.82	-53.48	-101.35
504.995	-60.06	-10.79	-49.27	-21.57	-0.07	-80.43	-102.07	53.22	-155.30	-52.96	-102.34
505.04	-60.16	-10.79	-49.27	-21.68	-0.07	-80.45	-102.20	53.22	-155.42	-52.44	-102.98
505.085	-60.07	-10.79	-49.37	-21.49	-0.07	-80.75	-102.30	53.22	-155.53	-51.92	-103.60
505.13	-60.19	-10.79	-49.33	-21.65	-0.06	-80.09	-101.80	53.22	-155.02	-51.41	-103.62
505.175	-60.51	-10.79	-49.29	-22.00	-0.06	-80.05	-102.12	53.22	-155.34	-50.89	-104.45

505.22	-59.87	-10.79	-49.35	-21.30	-0.07	-79.53	-100.91	53.22	-154.13	-50.37	-103.76
505.265	-59.92	-10.79	-49.33	-21.38	-0.05	-79.99	-101.41	53.22	-154.63	-49.85	-104.78
505.31	-59.98	-10.79	-49.35	-21.42	-0.06	-79.54	-101.03	53.22	-154.25	-49.34	-104.92
505.355	-59.51	-10.79	-49.38	-20.92	-0.08	-79.84	-100.84	53.22	-154.07	-48.82	-105.25
505.4	-59.42	-10.79	-49.37	-20.83	-0.08	-77.79	-98.71	53.22	-151.93	-48.30	-103.63
505.445	-59.88	-10.79	-49.30	-21.37	-0.07	-78.89	-100.34	53.22	-153.56	-47.78	-105.78
505.49	-59.45	-10.79	-49.35	-20.89	-0.08	-78.53	-99.50	53.22	-152.72	-47.26	-105.46
505.535	-59.03	-10.79	-49.40	-20.42	-0.07	-78.60	-99.09	53.22	-152.31	-47.00	-105.31
505.58	-59.14	-10.79	-49.39	-20.54	-0.07	-75.74	-96.35	53.22	-149.57	-47.00	-102.57
505.625	-59.97	-10.79	-49.39	-21.38	-0.07	-76.71	-98.15	53.22	-151.38	-47.00	-104.38
505.67	-59.57	-10.79	-49.38	-20.98	-0.08	-76.66	-97.72	53.22	-150.94	-47.00	-103.94
505.715	-59.40	-10.79	-49.34	-20.85	-0.08	-77.04	-97.97	53.22	-151.19	-47.00	-104.19
505.76	-59.52	-10.79	-49.34	-20.97	-0.07	-78.81	-99.85	53.22	-153.07	-47.00	-106.07
505.805	-59.22	-10.79	-49.34	-20.67	-0.07	-79.51	-100.25	53.22	-153.47	-47.00	-106.47
505.85	-59.14	-10.79	-49.39	-20.54	-0.07	-79.87	-100.48	53.22	-153.70	-47.00	-106.70
505.895	-58.53	-10.79	-49.40	-19.92	-0.07	-78.25	-98.25	53.22	-151.47	-47.00	-104.47
505.94	-55.80	-10.79	-49.38	-17.22	-0.08	-79.01	-96.30	53.22	-149.52	-47.00	-102.52
505.985	-46.19	-10.79	-49.34	-7.64	-0.06	-77.24	-84.95	53.22	-138.17	-47.00	-91.17
506	In - Band Exclusion (506 - 512 MHz)										
512											
512.015	-44.65	-10.79	-49.24	-6.20	-0.07	-80.32	-86.59	53.22	-139.82	-47.00	-92.82
512.06	-54.40	-10.79	-49.24	-15.95	-0.08	-80.56	-96.59	53.22	-149.81	-47.00	-102.81
512.105	-58.58	-10.79	-49.16	-20.22	-0.09	-80.65	-100.96	53.22	-154.18	-47.00	-107.18
512.15	-58.76	-10.79	-49.20	-20.35	-0.07	-80.09	-100.51	53.22	-153.73	-47.00	-106.73
512.195	-58.35	-10.79	-49.25	-19.89	-0.07	-79.73	-99.70	53.22	-152.92	-47.00	-105.92
512.24	-58.77	-10.79	-49.30	-20.26	-0.07	-79.91	-100.24	53.22	-153.46	-47.00	-106.46
512.285	-59.36	-10.79	-49.23	-20.92	-0.08	-79.11	-100.10	53.22	-153.32	-47.00	-106.32
512.33	-59.23	-10.79	-49.23	-20.79	-0.08	-80.08	-100.95	53.22	-154.17	-47.00	-107.17
512.375	-59.31	-10.79	-49.25	-20.85	-0.09	-78.54	-99.48	53.22	-152.70	-47.00	-105.70
512.42	-58.94	-10.79	-49.24	-20.49	-0.09	-79.58	-100.16	53.22	-153.39	-47.00	-106.39
512.465	-58.63	-10.79	-49.22	-20.20	-0.09	-79.55	-99.84	53.22	-153.06	-47.00	-106.06
512.51	-58.07	-10.79	-49.25	-19.61	-0.09	-79.06	-98.76	53.22	-151.98	-47.26	-104.71
512.555	-58.21	-10.79	-49.31	-19.69	-0.09	-78.28	-98.05	53.22	-151.27	-47.78	-103.49
512.6	-58.12	-10.79	-49.24	-19.67	-0.07	-78.27	-98.00	53.22	-151.22	-48.30	-102.92
512.645	-58.58	-10.79	-49.19	-20.18	-0.07	-79.21	-99.47	53.22	-152.69	-48.82	-103.87
512.69	-59.17	-10.79	-49.26	-20.70	-0.09	-79.91	-100.70	53.22	-153.92	-49.34	-104.59
512.735	-59.05	-10.79	-49.26	-20.59	-0.08	-80.26	-100.93	53.22	-154.15	-49.85	-104.30
512.78	-59.47	-10.79	-49.26	-21.00	-0.08	-79.25	-100.34	53.22	-153.56	-50.37	-103.19
512.825	-59.97	-10.79	-49.24	-21.52	-0.09	-79.71	-101.32	53.22	-154.54	-50.89	-103.65
512.87	-59.56	-10.79	-49.20	-21.15	-0.07	-79.12	-100.34	53.22	-153.56	-51.41	-102.16

512.915	-59.22	-10.79	-49.17	-20.83	-0.07	-80.11	-101.02	53.22	-154.24	-51.92	-102.31
512.96	-59.32	-10.79	-49.26	-20.86	-0.09	-78.15	-99.09	53.22	-152.31	-52.44	-99.87
513.005	-59.34	-10.79	-49.24	-20.89	-0.09	-79.69	-100.67	53.22	-153.89	-52.96	-100.93
513.05	-59.82	-10.79	-49.18	-21.43	-0.08	-79.72	-101.23	53.22	-154.45	-53.47	-100.98
513.095	-60.16	-10.79	-49.21	-21.74	-0.09	-79.86	-101.69	53.22	-154.91	-53.99	-100.92
513.14	-60.67	-10.79	-49.24	-22.21	-0.08	-78.80	-101.09	53.22	-154.31	-54.51	-99.80
513.185	-60.16	-10.79	-49.27	-21.69	-0.08	-80.05	-101.81	53.22	-155.04	-55.03	-100.01
513.23	-60.02	-10.79	-49.26	-21.54	-0.08	-79.95	-101.57	53.22	-154.80	-55.55	-99.25
513.275	-60.03	-10.79	-49.27	-21.55	-0.09	-80.03	-101.66	53.22	-154.88	-56.06	-98.82
513.32	-60.11	-10.79	-49.25	-21.64	-0.10	-79.46	-101.20	53.22	-154.43	-56.58	-97.85
513.365	-60.13	-10.79	-49.22	-21.71	-0.07	-79.14	-100.92	53.22	-154.14	-57.10	-97.04
513.41	-60.07	-10.79	-49.23	-21.63	-0.08	-79.40	-101.11	53.22	-154.33	-57.61	-96.72
513.455	-59.95	-10.79	-49.23	-21.51	-0.08	-79.59	-101.18	53.22	-154.40	-58.13	-96.27
513.5	-59.63	-10.79	-49.25	-21.17	-0.08	-80.04	-101.29	53.22	-154.51	-58.65	-95.86
513.545	-60.08	-10.79	-49.26	-21.61	-0.09	-80.28	-101.98	53.22	-155.20	-59.17	-96.03
513.59	-60.05	-10.79	-49.32	-21.52	-0.10	-80.28	-101.90	53.22	-155.12	-59.69	-95.44
513.635	-60.09	-10.79	-49.19	-21.69	-0.08	-79.10	-100.87	53.22	-154.10	-60.20	-93.89
513.68	-59.91	-10.79	-49.29	-21.41	-0.10	-79.44	-100.95	53.22	-154.18	-60.72	-93.46
513.725	-60.23	-10.79	-49.24	-21.78	-0.10	-79.92	-101.80	53.22	-155.02	-61.24	-93.78
513.77	-60.16	-10.79	-49.23	-21.72	-0.08	-79.23	-101.03	53.22	-154.25	-61.75	-92.50
513.815	-59.90	-10.79	-49.28	-21.41	-0.09	-80.34	-101.84	53.22	-155.06	-62.27	-92.79
513.86	-60.01	-10.79	-49.26	-21.55	-0.09	-79.42	-101.06	53.22	-154.29	-62.79	-91.50
513.905	-60.09	-10.79	-49.23	-21.65	-0.09	-80.15	-101.89	53.22	-155.11	-63.31	-91.80
513.95	-60.53	-10.79	-49.17	-22.15	-0.08	-79.73	-101.96	53.22	-155.18	-63.83	-91.36
513.995	-60.29	-10.79	-49.17	-21.91	-0.07	-79.75	-101.73	53.22	-154.95	-64.34	-90.61
514.04	-60.43	-10.79	-49.22	-22.00	-0.08	-79.51	-101.58	53.22	-154.81	-64.86	-89.95
514.085	-60.17	-10.79	-49.25	-21.72	-0.07	-79.54	-101.33	53.22	-154.55	-65.38	-89.18
514.13	-60.33	-10.79	-49.28	-21.84	-0.08	-79.90	-101.82	53.22	-155.04	-65.89	-89.15
514.175	-60.64	-10.79	-49.24	-22.19	-0.09	-78.56	-100.84	53.22	-154.06	-66.41	-87.65
514.22	-60.72	-10.79	-49.22	-22.29	-0.09	-79.87	-102.24	53.22	-155.47	-66.93	-88.54
514.265	-60.50	-10.79	-49.21	-22.09	-0.08	-79.29	-101.46	53.22	-154.69	-67.45	-87.24
514.31	-61.05	-10.79	-49.24	-22.59	-0.07	-78.98	-101.64	53.22	-154.86	-67.96	-86.90
514.355	-61.59	-10.79	-49.28	-23.10	-0.09	-79.72	-102.90	53.22	-156.13	-68.48	-87.64
514.4	-61.11	-10.79	-49.27	-22.63	-0.10	-78.58	-101.31	53.22	-154.53	-69.00	-85.53
514.445	-61.00	-10.79	-49.29	-22.50	-0.10	-79.74	-102.34	53.22	-155.56	-69.52	-86.04
514.49	-60.78	-10.79	-49.23	-22.35	-0.08	-80.00	-102.44	53.22	-155.66	-70.04	-85.62
514.535	-60.18	-10.79	-49.20	-21.77	-0.08	-80.03	-101.88	53.22	-155.10	-70.55	-84.55
514.58	-60.31	-10.79	-49.30	-21.79	-0.11	-79.00	-100.90	53.22	-154.12	-71.07	-83.05
514.625	-60.32	-10.79	-49.30	-21.81	-0.09	-79.79	-101.70	53.22	-154.92	-71.59	-83.33
514.67	-60.47	-10.79	-49.27	-21.99	-0.07	-79.95	-102.02	53.22	-155.24	-72.10	-83.13

514.715	-60.65	-10.79	-49.24	-22.20	-0.08	-79.68	-101.96	53.22	-155.18	-72.62	-82.56
514.76	-61.17	-10.79	-49.26	-22.70	-0.09	-79.46	-102.25	53.22	-155.48	-73.14	-82.34
514.805	-60.75	-10.79	-49.29	-22.26	-0.09	-78.11	-100.45	53.22	-153.67	-73.66	-80.02
514.85	-60.79	-10.79	-49.27	-22.31	-0.08	-79.37	-101.76	53.22	-154.98	-74.18	-80.81
514.895	-61.04	-10.79	-49.26	-22.57	-0.09	-79.50	-102.16	53.22	-155.38	-74.69	-80.69
514.94	-60.99	-10.79	-49.26	-22.53	-0.07	-80.00	-102.60	53.22	-155.82	-75.21	-80.61
514.985	-60.95	-10.79	-49.26	-22.47	-0.08	-79.63	-102.19	53.22	-155.41	-75.73	-79.68
515.03	-60.97	-10.79	-49.21	-22.54	-0.07	-79.77	-102.38	53.22	-155.61	-76.24	-79.36
515.075	-61.32	-10.79	-49.26	-22.85	-0.07	-79.53	-102.45	53.22	-155.67	-76.76	-78.91
515.12	-61.58	-10.79	-49.26	-23.11	-0.08	-78.66	-101.86	53.22	-155.08	-77.28	-77.80
515.165	-61.85	-10.79	-49.29	-23.35	-0.08	-78.57	-101.99	53.22	-155.22	-77.80	-77.42
515.21	-61.56	-10.79	-49.25	-23.10	-0.08	-79.48	-102.66	53.22	-155.89	-78.32	-77.57
515.255	-61.17	-10.79	-49.22	-22.74	-0.07	-79.19	-102.01	53.22	-155.23	-78.83	-76.40
515.3	-61.46	-10.79	-49.28	-22.97	-0.08	-80.03	-103.08	53.22	-156.30	-79.35	-76.95
515.345	-61.21	-10.79	-49.28	-22.71	-0.08	-78.66	-101.46	53.22	-154.68	-79.87	-74.81
515.39	-60.56	-10.79	-49.23	-22.12	-0.09	-79.36	-101.56	53.22	-154.79	-80.38	-74.40
515.435	-61.01	-10.79	-49.31	-22.50	-0.09	-78.04	-100.63	53.22	-153.85	-80.90	-72.95
515.48	-61.64	-10.79	-49.23	-23.20	-0.08	-78.31	-101.58	53.22	-154.81	-81.42	-73.39
515.525	-61.87	-10.79	-49.25	-23.41	-0.07	-79.35	-102.84	53.22	-156.06	-81.94	-74.13
515.57	-62.25	-10.79	-49.22	-23.82	-0.07	-78.87	-102.77	53.22	-155.99	-82.46	-73.53
515.615	-62.65	-10.79	-49.20	-24.23	-0.08	-79.24	-103.56	53.22	-156.78	-82.97	-73.81
515.66	-62.36	-10.79	-49.20	-23.95	-0.09	-78.83	-102.87	53.22	-156.10	-83.49	-72.61
515.705	-62.47	-10.79	-49.27	-23.98	-0.11	-78.62	-102.71	53.22	-155.93	-84.01	-71.92
515.75	-61.97	-10.79	-49.28	-23.48	-0.08	-79.57	-103.13	53.22	-156.36	-84.53	-71.83
515.795	-61.51	-10.79	-49.27	-23.03	-0.09	-79.54	-102.66	53.22	-155.88	-85.04	-70.84
515.84	-61.70	-10.79	-49.26	-23.22	-0.08	-78.27	-101.58	53.22	-154.80	-85.56	-69.24
515.885	-61.81	-10.79	-49.25	-23.34	-0.07	-79.57	-102.98	53.22	-156.21	-86.08	-70.13
515.93	-61.60	-10.79	-49.25	-23.14	-0.07	-79.64	-102.85	53.22	-156.08	-86.59	-69.48
515.975	-62.00	-10.79	-49.27	-23.52	-0.09	-79.61	-103.22	53.22	-156.44	-87.11	-69.33
516.02	-62.17	-10.79	-49.25	-23.71	-0.09	-78.63	-102.43	53.22	-155.65	-87.63	-68.02
516.065	-61.47	-10.79	-49.24	-23.03	-0.09	-79.29	-102.41	53.22	-155.63	-88.15	-67.48
516.11	-61.20	-10.79	-49.25	-22.74	-0.09	-79.76	-102.59	53.22	-155.82	-88.67	-67.15
516.155	-61.75	-10.79	-49.26	-23.28	-0.08	-79.52	-102.89	53.22	-156.11	-89.18	-66.92
516.2	-61.58	-10.79	-49.23	-23.14	-0.09	-79.35	-102.57	53.22	-155.80	-89.70	-66.10
516.245	-61.82	-10.79	-49.32	-23.29	-0.11	-79.67	-103.07	53.22	-156.29	-90.22	-66.08
516.29	-62.02	-10.79	-49.28	-23.52	-0.09	-79.19	-102.81	53.22	-156.03	-90.73	-65.29
516.335	-62.41	-10.79	-49.26	-23.94	-0.07	-79.54	-103.56	53.22	-156.78	-91.25	-65.53
516.38	-61.75	-10.79	-49.24	-23.30	-0.08	-79.62	-103.00	53.22	-156.22	-91.77	-64.45
516.425	-61.60	-10.79	-49.24	-23.16	-0.08	-79.36	-102.59	53.22	-155.82	-92.29	-63.53
516.47	-62.00	-10.79	-49.17	-23.62	-0.07	-79.64	-103.32	53.22	-156.54	-92.81	-63.74

516.515	-62.31	-10.79	-49.12	-23.98	-0.07	-79.14	-103.19	53.22	-156.41	-93.32	-63.09
516.56	-62.73	-10.79	-49.25	-24.27	-0.08	-79.44	-103.79	53.22	-157.01	-93.84	-63.17
516.605	-62.82	-10.79	-49.25	-24.36	-0.09	-79.57	-104.02	53.22	-157.24	-94.36	-62.89
516.65	-62.61	-10.79	-49.29	-24.11	-0.07	-79.87	-104.05	53.22	-157.28	-94.87	-62.40
516.695	-62.67	-10.79	-49.29	-24.17	-0.08	-79.74	-103.99	53.22	-157.21	-95.39	-61.82
516.74	-62.55	-10.79	-49.20	-24.14	-0.09	-79.26	-103.49	53.22	-156.71	-95.91	-60.80
516.785	-62.47	-10.79	-49.25	-24.01	-0.07	-80.33	-104.41	53.22	-157.63	-96.43	-61.20
516.83	-62.39	-10.79	-49.23	-23.95	-0.07	-80.50	-104.53	53.22	-157.75	-96.95	-60.80
516.875	-62.20	-10.79	-49.21	-23.78	-0.09	-80.63	-104.50	53.22	-157.72	-97.46	-60.25
516.92	-62.22	-10.79	-49.20	-23.81	-0.08	-79.22	-103.12	53.22	-156.34	-97.98	-58.36
516.965	-62.45	-10.79	-49.24	-24.00	-0.08	-79.73	-103.81	53.22	-157.03	-98.50	-58.53
517.01	-62.70	-10.79	-49.30	-24.20	-0.09	-80.68	-104.97	53.22	-158.19	-99.01	-59.18
517.055	-62.44	-10.79	-49.28	-23.95	-0.10	-80.21	-104.26	53.22	-157.49	-99.53	-57.95
517.1	-62.35	-10.79	-49.28	-23.85	-0.08	-79.65	-103.59	53.22	-156.81	-100.05	-56.76
517.145	-62.94	-10.79	-49.29	-24.43	-0.09	-78.86	-103.39	53.22	-156.61	-100.57	-56.04
517.19	-63.58	-10.79	-49.25	-25.13	-0.08	-80.28	-105.48	53.22	-158.70	-101.09	-57.62
517.235	-62.96	-10.79	-49.24	-24.50	-0.07	-80.16	-104.74	53.22	-157.96	-101.60	-56.36
517.28	-62.58	-10.79	-49.24	-24.12	-0.07	-78.67	-102.86	53.22	-156.08	-102.12	-53.96
517.325	-62.69	-10.79	-49.23	-24.24	-0.08	-79.77	-104.09	53.22	-157.32	-102.64	-54.68
517.37	-62.69	-10.79	-49.22	-24.27	-0.10	-79.88	-104.24	53.22	-157.47	-103.16	-54.31
517.415	-62.43	-10.79	-49.19	-24.04	-0.07	-80.34	-104.44	53.22	-157.67	-103.67	-53.99
517.46	-62.69	-10.79	-49.25	-24.22	-0.08	-78.69	-103.00	53.22	-156.22	-104.19	-52.03
517.505	-62.79	-10.79	-49.25	-24.34	-0.09	-79.50	-103.92	53.22	-157.15	-104.71	-52.44
517.55	-63.13	-10.79	-49.28	-24.64	-0.10	-79.54	-104.27	53.22	-157.49	-105.22	-52.27
517.595	-62.79	-10.79	-49.29	-24.29	-0.09	-79.73	-104.11	53.22	-157.33	-105.74	-51.59
517.64	-62.67	-10.79	-49.25	-24.22	-0.08	-78.99	-103.29	53.22	-156.51	-106.26	-50.25
517.685	-62.56	-10.79	-49.25	-24.10	-0.09	-79.98	-104.16	53.22	-157.38	-106.78	-50.61
517.73	-63.08	-10.79	-49.25	-24.62	-0.08	-79.73	-104.43	53.22	-157.65	-107.30	-50.35
517.775	-63.58	-10.79	-49.20	-25.17	-0.08	-78.76	-104.01	53.22	-157.23	-107.81	-49.42
517.82	-63.42	-10.79	-49.23	-24.98	-0.09	-79.93	-105.00	53.22	-158.22	-108.33	-49.89
517.865	-62.60	-10.79	-49.24	-24.15	-0.09	-79.52	-103.76	53.22	-156.98	-108.85	-48.14
517.91	-63.09	-10.79	-49.27	-24.61	-0.11	-79.53	-104.25	53.22	-157.47	-109.37	-48.11
517.955	-63.17	-10.79	-49.23	-24.73	-0.08	-79.06	-103.87	53.22	-157.09	-109.88	-47.21
518	-63.10	-10.79	-49.25	-24.64	-0.10	-79.24	-103.98	53.22	-157.20	-110.40	-46.80

Table 2
50 – 1000 MHz _ ATSC 3.0

Freq	1	2	3	4	5	6	7	8	9	Limit	Margin
MHz	dBm	dB	dB	dBm	dB	dB	dB	dBm	dBm	dBc	dB
50	-87.44	-10.79	-75.32	-22.91	-0.64	-80.07	-103.61	53.22	-156.84	-110.00	-46.84
52.375	-87.66	-10.79	-76.70	-21.75	-0.63	-81.35	-103.72	53.22	-156.95	-110.00	-46.95
54.75	-87.89	-10.79	-75.43	-23.26	-0.58	-81.07	-104.90	53.22	-158.13	-110.00	-48.13
57.125	-87.72	-10.79	-74.83	-23.68	-0.57	-81.81	-106.05	53.22	-159.27	-110.00	-49.27
59.5	-87.64	-10.79	-75.75	-22.69	-0.62	-81.73	-105.04	53.22	-158.26	-110.00	-48.26
61.875	-87.48	-10.79	-73.98	-24.29	-0.66	-81.73	-106.67	53.22	-159.90	-110.00	-49.90
64.25	-86.96	-10.79	-74.14	-23.60	-0.76	-81.67	-106.03	53.22	-159.25	-110.00	-49.25
66.625	-86.66	-10.79	-74.42	-23.03	-0.78	-81.76	-105.56	53.22	-158.78	-110.00	-48.78
69	-87.15	-10.79	-73.40	-24.54	-0.88	-82.03	-107.45	53.22	-160.67	-110.00	-50.67
71.375	-87.17	-10.79	-73.45	-24.51	-1.05	-79.97	-105.52	53.22	-158.75	-110.00	-48.75
73.75	-87.73	-10.79	-72.16	-26.37	-1.10	-82.21	-109.67	53.22	-162.90	-110.00	-52.90
76.125	-87.34	-10.79	-71.49	-26.64	-1.21	-81.35	-109.21	53.22	-162.43	-110.00	-52.43
78.5	-87.91	-10.79	-71.18	-27.52	-1.24	-81.72	-110.47	53.22	-163.70	-110.00	-53.70
80.875	-88.08	-10.79	-71.08	-27.78	-1.29	-81.63	-110.71	53.22	-163.93	-110.00	-53.93
83.25	-87.94	-10.79	-70.46	-28.26	-1.23	-80.79	-110.28	53.22	-163.51	-110.00	-53.51
85.625	-87.98	-10.79	-70.29	-28.48	-1.16	-81.94	-111.58	53.22	-164.80	-110.00	-54.80
88	-87.80	-10.79	-69.51	-29.09	-1.06	-81.92	-112.06	53.22	-165.29	-110.00	-55.29
90.375	-88.21	-10.79	-69.46	-29.54	-1.03	-81.90	-112.46	53.22	-165.68	-110.00	-55.68
92.75	-87.61	-10.79	-69.54	-28.87	-1.01	-81.79	-111.66	53.22	-164.88	-110.00	-54.88
95.125	-87.85	-10.79	-69.20	-29.44	-0.99	-82.03	-112.46	53.22	-165.69	-110.00	-55.69
97.5	-87.72	-10.79	-68.62	-29.89	-1.04	-81.79	-112.72	53.22	-165.95	-110.00	-55.95
99.875	-87.56	-10.79	-68.49	-29.86	-1.07	-81.68	-112.62	53.22	-165.84	-110.00	-55.84
102.25	-87.43	-10.79	-68.08	-30.14	-1.09	-80.91	-112.14	53.22	-165.37	-110.00	-55.37
104.625	-87.27	-10.79	-67.85	-30.22	-1.17	-80.94	-112.32	53.22	-165.54	-110.00	-55.54
107	-86.92	-10.79	-67.12	-30.58	-1.25	-81.72	-113.54	53.22	-166.77	-110.00	-56.77
109.375	-86.62	-10.79	-67.13	-30.28	-1.21	-81.20	-112.69	53.22	-165.92	-110.00	-55.92
111.75	-86.01	-10.79	-66.70	-30.10	-1.21	-81.74	-113.05	53.22	-166.27	-110.00	-56.27
114.125	-84.89	-10.79	-66.62	-29.07	-1.17	-80.83	-111.07	53.22	-164.29	-110.00	-54.29
116.5	-84.80	-10.79	-66.31	-29.28	-1.07	-81.22	-111.57	53.22	-164.79	-110.00	-54.79
118.875	-84.78	-10.79	-65.80	-29.77	-1.01	-80.75	-111.52	53.22	-164.74	-110.00	-54.74
121.25	-85.30	-10.79	-65.71	-30.38	-0.80	-80.89	-112.07	53.22	-165.29	-110.00	-55.29
123.625	-86.29	-10.79	-65.34	-31.74	-0.78	-81.35	-113.87	53.22	-167.09	-110.00	-57.09
126	-86.78	-10.79	-65.20	-32.37	-0.70	-80.78	-113.85	53.22	-167.07	-110.00	-57.07
128.375	-86.88	-10.79	-64.34	-33.33	-0.66	-81.70	-115.70	53.22	-168.92	-110.00	-58.92
130.75	-87.73	-10.79	-64.70	-33.82	-0.70	-81.60	-116.13	53.22	-169.35	-110.00	-59.35
133.125	-88.13	-10.79	-64.07	-34.85	-0.69	-81.65	-117.19	53.22	-170.41	-110.00	-60.41

135.5	-88.07	-10.79	-64.00	-34.86	-0.76	-80.87	-116.49	53.22	-169.72	-110.00	-59.72
137.875	-88.05	-10.79	-63.87	-34.98	-0.76	-81.73	-117.46	53.22	-170.68	-110.00	-60.68
140.25	-88.13	-10.79	-63.27	-35.64	-0.75	-80.90	-117.29	53.22	-170.51	-110.00	-60.51
142.625	-88.01	-10.79	-63.02	-35.78	-0.69	-81.88	-118.36	53.22	-171.58	-110.00	-61.58
145	-88.16	-10.79	-63.08	-35.88	-0.62	-81.74	-118.24	53.22	-171.46	-110.00	-61.46
147.375	-88.05	-10.79	-62.87	-35.97	-0.61	-81.63	-118.22	53.22	-171.44	-110.00	-61.44
149.75	-87.85	-10.79	-62.54	-36.10	-0.45	-81.96	-118.51	53.22	-171.73	-110.00	-61.73
152.125	-88.60	-10.79	-62.37	-37.02	-0.39	-81.16	-118.57	53.22	-171.79	-110.00	-61.79
154.5	-88.55	-10.79	-62.22	-37.11	-0.32	-81.06	-118.49	53.22	-171.71	-110.00	-61.71
156.875	-88.23	-10.79	-61.89	-37.13	-0.21	-80.98	-118.32	53.22	-171.55	-110.00	-61.55
159.25	-88.38	-10.79	-61.74	-37.43	-0.18	-81.28	-118.89	53.22	-172.11	-110.00	-62.11
161.625	-88.73	-10.79	-61.32	-38.20	-0.14	-81.15	-119.49	53.22	-172.71	-110.00	-62.71
164	-88.64	-10.79	-61.28	-38.15	-0.11	-81.24	-119.50	53.22	-172.72	-110.00	-62.72
166.375	-88.42	-10.79	-61.00	-38.22	-0.11	-81.14	-119.47	53.22	-172.69	-110.00	-62.69
168.75	-89.19	-10.79	-60.87	-39.11	-0.11	-81.47	-120.69	53.22	-173.91	-110.00	-63.91
171.125	-88.45	-10.79	-60.76	-38.47	-0.17	-81.56	-120.21	53.22	-173.43	-110.00	-63.43
173.5	-88.38	-10.79	-60.61	-38.56	-0.15	-81.20	-119.90	53.22	-173.13	-110.00	-63.13
175.875	-88.84	-10.79	-60.38	-39.25	-0.16	-81.11	-120.52	53.22	-173.74	-110.00	-63.74
178.25	-88.18	-10.79	-60.32	-38.65	-0.14	-81.61	-120.41	53.22	-173.63	-110.00	-63.63
180.625	-88.27	-10.79	-60.04	-39.02	-0.09	-81.48	-120.59	53.22	-173.81	-110.00	-63.81
183	-88.77	-10.79	-59.77	-39.79	-0.09	-81.34	-121.22	53.22	-174.44	-110.00	-64.44
185.375	-88.78	-10.79	-59.72	-39.85	-0.04	-80.93	-120.82	53.22	-174.05	-110.00	-64.05
187.75	-88.31	-10.79	-59.51	-39.59	-0.08	-81.49	-121.16	53.22	-174.38	-110.00	-64.38
190.125	-88.41	-10.79	-59.15	-40.05	-0.12	-81.53	-121.69	53.22	-174.91	-110.00	-64.91
192.5	-88.54	-10.79	-59.33	-40.00	-0.12	-80.87	-120.98	53.22	-174.21	-110.00	-64.21
194.875	-87.90	-10.79	-58.79	-39.90	-0.19	-81.42	-121.51	53.22	-174.73	-110.00	-64.73
197.25	-87.93	-10.79	-58.74	-39.97	-0.15	-80.86	-120.98	53.22	-174.21	-110.00	-64.21
199.625	-87.97	-10.79	-58.52	-40.24	-0.22	-80.96	-121.41	53.22	-174.63	-110.00	-64.63
202	-87.55	-10.79	-58.54	-39.80	-0.20	-80.93	-120.93	53.22	-174.16	-110.00	-64.16
204.375	-87.51	-10.79	-58.35	-39.95	-0.15	-80.51	-120.60	53.22	-173.83	-110.00	-63.83
206.75	-87.02	-10.79	-58.15	-39.66	-0.18	-80.46	-120.31	53.22	-173.53	-110.00	-63.53
209.125	-86.90	-10.79	-57.83	-39.87	-0.13	-80.67	-120.66	53.22	-173.88	-110.00	-63.88
211.5	-86.54	-10.79	-57.73	-39.60	-0.15	-81.05	-120.80	53.22	-174.03	-110.00	-64.03
213.875	-85.77	-10.79	-57.63	-38.93	-0.16	-80.49	-119.58	53.22	-172.80	-110.00	-62.80
216.25	-85.45	-10.79	-57.49	-38.75	-0.15	-80.52	-119.42	53.22	-172.65	-110.00	-62.65
218.625	-85.33	-10.79	-57.37	-38.75	-0.29	-80.65	-119.69	53.22	-172.91	-110.00	-62.91
221	-84.94	-10.79	-57.21	-38.51	-0.32	-81.07	-119.91	53.22	-173.13	-110.00	-63.13
223.375	-84.74	-10.79	-57.20	-38.33	-0.40	-81.23	-119.96	53.22	-173.19	-110.00	-63.19
225.75	-84.65	-10.79	-57.05	-38.39	-0.61	-81.14	-120.14	53.22	-173.36	-110.00	-63.36
228.125	-84.53	-10.79	-56.91	-38.42	-0.70	-81.01	-120.13	53.22	-173.36	-110.00	-63.36

230.5	-84.26	-10.79	-56.78	-38.27	-0.88	-81.39	-120.55	53.22	-173.77	-110.00	-63.77
232.875	-84.18	-10.79	-56.62	-38.35	-0.91	-80.78	-120.04	53.22	-173.26	-110.00	-63.26
235.25	-84.14	-10.79	-56.34	-38.59	-0.99	-81.35	-120.92	53.22	-174.15	-110.00	-64.15
237.625	-83.89	-10.79	-56.31	-38.36	-0.94	-79.81	-119.12	53.22	-172.34	-110.00	-62.34
240	-83.74	-10.79	-56.26	-38.27	-0.92	-81.13	-120.31	53.22	-173.54	-110.00	-63.54
242.375	-83.53	-10.79	-56.09	-38.23	-0.89	-80.24	-119.36	53.22	-172.59	-110.00	-62.59
244.75	-83.38	-10.79	-55.84	-38.33	-0.82	-80.38	-119.53	53.22	-172.75	-110.00	-62.75
247.125	-83.30	-10.79	-55.74	-38.35	-0.75	-80.36	-119.47	53.22	-172.69	-110.00	-62.69
249.5	-83.27	-10.79	-55.70	-38.37	-0.69	-80.66	-119.72	53.22	-172.94	-110.00	-62.94
251.875	-83.17	-10.79	-55.48	-38.48	-0.71	-81.00	-120.19	53.22	-173.41	-110.00	-63.41
254.25	-82.88	-10.79	-55.29	-38.38	-0.74	-80.81	-119.93	53.22	-173.15	-110.00	-63.15
256.625	-82.59	-10.79	-55.19	-38.19	-0.79	-81.34	-120.33	53.22	-173.55	-110.00	-63.55
259	-82.46	-10.79	-55.03	-38.22	-0.94	-80.13	-119.29	53.22	-172.51	-110.00	-62.51
261.375	-82.44	-10.79	-54.93	-38.30	-1.05	-79.90	-119.25	53.22	-172.48	-110.00	-62.48
263.75	-82.58	-10.79	-54.87	-38.50	-1.15	-80.54	-120.19	53.22	-173.41	-110.00	-63.41
266.125	-82.39	-10.79	-54.80	-38.38	-1.38	-79.52	-119.27	53.22	-172.50	-110.00	-62.50
268.5	-82.33	-10.79	-54.67	-38.45	-1.55	-81.31	-121.31	53.22	-174.53	-110.00	-64.53
270.875	-82.27	-10.79	-54.68	-38.38	-1.65	-80.89	-120.92	53.22	-174.14	-110.00	-64.14
273.25	-82.11	-10.79	-54.50	-38.40	-1.64	-80.92	-120.97	53.22	-174.19	-110.00	-64.19
275.625	-82.00	-10.79	-54.40	-38.39	-1.61	-80.49	-120.49	53.22	-173.71	-110.00	-63.71
278	-81.81	-10.79	-54.20	-38.41	-1.52	-78.54	-118.47	53.22	-171.70	-110.00	-61.70
280.375	-81.69	-10.79	-54.10	-38.37	-1.36	-79.89	-119.62	53.22	-172.84	-110.00	-62.84
282.75	-81.42	-10.79	-54.11	-38.10	-1.20	-80.81	-120.11	53.22	-173.33	-110.00	-63.33
285.125	-81.22	-10.79	-54.08	-37.93	-1.17	-81.03	-120.13	53.22	-173.35	-110.00	-63.35
287.5	-81.19	-10.79	-53.88	-38.10	-1.06	-79.59	-118.74	53.22	-171.97	-110.00	-61.97
289.875	-80.76	-10.79	-53.85	-37.70	-1.06	-79.11	-117.87	53.22	-171.09	-110.00	-61.09
292.25	-80.74	-10.79	-53.61	-37.92	-1.10	-80.12	-119.14	53.22	-172.37	-110.00	-62.37
294.625	-80.51	-10.79	-53.59	-37.71	-1.25	-80.61	-119.56	53.22	-172.78	-110.00	-62.78
297	-80.20	-10.79	-53.52	-37.47	-1.32	-78.26	-117.05	53.22	-170.27	-110.00	-60.27
299.375	-80.02	-10.79	-53.45	-37.35	-1.36	-81.21	-119.91	53.22	-173.14	-110.00	-63.14
301.75	-80.00	-10.79	-53.30	-37.48	-1.50	-80.95	-119.94	53.22	-173.16	-110.00	-63.16
304.125	-80.24	-10.79	-53.18	-37.85	-1.53	-79.20	-118.58	53.22	-171.80	-110.00	-61.80
306.5	-80.41	-10.79	-53.15	-38.05	-1.60	-79.26	-118.91	53.22	-172.13	-110.00	-62.13
308.875	-80.69	-10.79	-52.91	-38.57	-1.55	-80.15	-120.27	53.22	-173.50	-110.00	-63.50
311.25	-80.57	-10.79	-52.91	-38.46	-1.40	-79.73	-119.59	53.22	-172.81	-110.00	-62.81
313.625	-80.58	-10.79	-52.96	-38.41	-1.32	-80.43	-120.16	53.22	-173.39	-110.00	-63.39
316	-80.76	-10.79	-52.69	-38.86	-1.14	-80.45	-120.45	53.22	-173.67	-110.00	-63.67
318.375	-80.82	-10.79	-52.70	-38.91	-1.01	-80.75	-120.67	53.22	-173.90	-110.00	-63.90
320.75	-80.89	-10.79	-52.60	-39.08	-0.94	-80.09	-120.12	53.22	-173.34	-110.00	-63.34
323.125	-80.67	-10.79	-52.62	-38.85	-0.95	-80.05	-119.85	53.22	-173.08	-110.00	-63.08

325.5	-80.62	-10.79	-52.45	-38.96	-0.97	-79.53	-119.46	53.22	-172.69	-110.00	-62.69
327.875	-80.32	-10.79	-52.53	-38.59	-0.95	-79.99	-119.53	53.22	-172.75	-110.00	-62.75
330.25	-79.95	-10.79	-52.28	-38.46	-1.07	-79.54	-119.08	53.22	-172.30	-110.00	-62.30
332.625	-79.07	-10.79	-52.30	-37.57	-1.05	-79.84	-118.46	53.22	-171.68	-110.00	-61.68
335	-78.21	-10.79	-52.16	-36.84	-1.09	-77.79	-115.72	53.22	-168.94	-110.00	-58.94
337.375	-77.21	-10.79	-52.05	-35.94	-1.11	-78.89	-115.95	53.22	-169.17	-110.00	-59.17
339.75	-76.26	-10.79	-52.02	-35.03	-1.03	-78.53	-114.59	53.22	-167.81	-110.00	-57.81
342.125	-75.36	-10.79	-51.93	-34.22	-0.96	-78.60	-113.78	53.22	-167.00	-110.00	-57.00
344.5	-74.64	-10.79	-51.83	-33.61	-0.87	-75.74	-110.22	53.22	-163.44	-110.00	-53.44
346.875	-73.91	-10.79	-51.78	-32.92	-0.75	-76.71	-110.38	53.22	-163.60	-110.00	-53.60
349.25	-73.60	-10.79	-51.92	-32.47	-0.65	-76.66	-109.79	53.22	-163.01	-110.00	-53.01
351.625	-73.01	-10.79	-51.71	-32.09	-0.46	-77.04	-109.58	53.22	-162.81	-110.00	-52.81
354	-72.62	-10.79	-51.68	-31.73	-0.41	-78.81	-110.95	53.22	-164.18	-110.00	-54.18
356.375	-71.92	-10.79	-51.58	-31.14	-0.33	-79.51	-110.98	53.22	-164.20	-110.00	-54.20
358.75	-71.13	-10.79	-51.55	-30.37	-0.31	-79.87	-110.55	53.22	-163.77	-110.00	-53.77
361.125	-70.77	-10.79	-51.56	-29.99	-0.32	-78.25	-108.56	53.22	-161.78	-110.00	-51.78
363.5	-70.11	-10.79	-51.60	-29.30	-0.39	-79.01	-108.69	53.22	-161.92	-110.00	-51.92
365.875	-69.59	-10.79	-51.45	-28.92	-0.54	-77.24	-106.70	53.22	-159.92	-110.00	-49.92
368.25	-69.36	-10.79	-51.43	-28.71	-0.57	-77.51	-106.79	53.22	-160.01	-110.00	-50.01
370.625	-69.21	-10.79	-51.46	-28.54	-0.65	-78.19	-107.37	53.22	-160.60	-110.00	-50.60
373	-69.00	-10.79	-51.36	-28.43	-0.56	-77.97	-106.96	53.22	-160.18	-110.00	-50.18
375.375	-68.93	-10.79	-51.36	-28.37	-0.51	-76.64	-105.51	53.22	-158.73	-110.00	-48.73
377.75	-68.45	-10.79	-51.16	-28.08	-0.44	-75.21	-103.73	53.22	-156.95	-110.00	-46.95
380.125	-68.16	-10.79	-51.23	-27.73	-0.22	-75.92	-103.86	53.22	-157.08	-110.00	-47.08
382.5	-67.73	-10.79	-51.15	-27.38	-0.19	-76.03	-103.60	53.22	-156.82	-110.00	-46.82
384.875	-67.36	-10.79	-51.13	-27.03	-0.13	-74.85	-102.01	53.22	-155.23	-110.00	-45.23
387.25	-67.17	-10.79	-51.18	-26.78	-0.03	-74.01	-100.82	53.22	-154.04	-110.00	-44.04
389.625	-66.99	-10.79	-51.17	-26.61	-0.05	-74.52	-101.18	53.22	-154.40	-110.00	-44.40
392	-66.69	-10.79	-51.07	-26.41	-0.07	-74.42	-100.90	53.22	-154.12	-110.00	-44.12
394.375	-66.31	-10.79	-51.12	-25.98	-0.04	-75.74	-101.76	53.22	-154.98	-110.00	-44.98
396.75	-66.08	-10.79	-50.98	-25.90	-0.03	-76.00	-101.93	53.22	-155.15	-110.00	-45.15
399.125	-65.78	-10.79	-51.07	-25.50	-0.11	-76.49	-102.09	53.22	-155.31	-110.00	-45.31
401.5	-65.51	-10.79	-51.01	-25.29	-0.12	-77.28	-102.69	53.22	-155.91	-110.00	-45.91
403.875	-65.17	-10.79	-50.96	-24.99	-0.17	-77.99	-103.15	53.22	-156.38	-110.00	-46.38
406.25	-65.01	-10.79	-51.02	-24.78	-0.20	-75.18	-100.16	53.22	-153.38	-110.00	-43.38
408.625	-64.69	-10.79	-50.98	-24.50	-0.22	-74.98	-99.69	53.22	-152.92	-110.00	-42.92
411	-64.51	-10.79	-50.92	-24.37	-0.17	-73.71	-98.25	53.22	-151.47	-110.00	-41.47
413.375	-64.16	-10.79	-50.99	-23.95	-0.17	-73.98	-98.10	53.22	-151.32	-110.00	-41.32
415.75	-63.57	-10.79	-51.01	-23.35	-0.10	-73.17	-96.62	53.22	-149.84	-110.00	-39.84
418.125	-63.06	-10.79	-50.96	-22.89	-0.11	-73.09	-96.10	53.22	-149.33	-110.00	-39.33

420.5	-62.63	-10.79	-50.85	-22.58	-0.14	-72.42	-95.13	53.22	-148.35	-110.00	-38.35
422.875	-62.46	-10.79	-50.83	-22.43	-0.11	-72.79	-95.32	53.22	-148.55	-110.00	-38.55
425.25	-62.32	-10.79	-50.86	-22.26	-0.09	-71.03	-93.38	53.22	-146.60	-110.00	-36.60
427.625	-62.07	-10.79	-50.80	-22.06	-0.07	-71.63	-93.75	53.22	-146.98	-110.00	-36.98
430	-61.70	-10.79	-50.74	-21.75	-0.08	-69.83	-91.65	53.22	-144.87	-110.00	-34.87
432.375	-61.44	-10.79	-50.83	-21.41	-0.08	-71.08	-92.56	53.22	-145.79	-110.00	-35.79
434.75	-61.24	-10.79	-50.81	-21.22	-0.08	-70.08	-91.38	53.22	-144.60	-110.00	-34.60
437.125	-61.44	-10.79	-50.80	-21.42	-0.12	-70.79	-92.33	53.22	-145.55	-110.00	-35.55
439.5	-62.00	-10.79	-50.87	-21.92	-0.05	-69.80	-91.76	53.22	-144.98	-110.00	-34.98
441.875	-62.65	-10.79	-50.77	-22.67	-0.14	-69.64	-92.44	53.22	-145.66	-110.00	-35.66
444.25	-63.39	-10.79	-50.92	-23.26	-0.11	-68.79	-92.17	53.22	-145.39	-110.00	-35.39
446.625	-63.88	-10.79	-50.88	-23.80	-0.16	-68.79	-92.74	53.22	-145.97	-110.00	-35.97
449	-63.02	-10.79	-50.87	-22.94	-0.14	-68.76	-91.84	53.22	-145.06	-110.00	-35.06
451.375	-63.56	-10.79	-50.81	-23.54	-0.13	-68.49	-92.16	53.22	-145.38	-110.00	-35.38
453.75	-63.21	-10.79	-50.88	-23.12	-0.12	-68.95	-92.18	53.22	-145.40	-110.00	-35.40
456.125	-62.99	-10.79	-50.82	-22.96	-0.07	-66.98	-90.01	53.22	-143.23	-110.00	-33.23
458.5	-62.94	-10.79	-50.66	-23.07	-0.10	-66.84	-90.01	53.22	-143.24	-110.00	-33.24
460.875	-63.02	-10.79	-50.79	-23.02	-0.08	-64.94	-88.04	53.22	-141.27	-110.00	-31.27
463.25	-62.87	-10.79	-50.72	-22.94	-0.06	-63.88	-86.87	53.22	-140.10	-110.00	-30.10
465.625	-63.07	-10.79	-50.75	-23.11	-0.11	-63.42	-86.64	53.22	-139.86	-110.00	-29.86
468	-63.28	-10.79	-50.70	-23.37	-0.09	-62.38	-85.84	53.22	-139.07	-110.00	-29.07
470.375	-63.28	-10.79	-50.64	-23.43	-0.11	-61.27	-84.80	53.22	-138.03	-110.00	-28.03
472.75	-63.31	-10.79	-50.76	-23.33	-0.09	-60.41	-83.83	53.22	-137.05	-110.00	-27.05
475.125	-63.22	-10.79	-50.58	-23.43	-0.05	-60.39	-83.86	53.22	-137.08	-110.00	-27.08
477.5	-61.40	-10.79	-50.72	-21.47	-0.12	-59.47	-81.05	53.22	-134.27	-110.00	-24.27
479.875	-60.74	-10.79	-50.77	-20.76	-0.14	-58.43	-79.32	53.22	-132.54	-110.00	-22.54
482.25	-58.87	-10.79	-50.71	-18.96	-0.15	-57.75	-76.86	53.22	-130.08	-110.00	-20.08
484.625	-57.51	-10.79	-50.73	-17.57	-0.18	-56.78	-74.53	53.22	-127.75	-110.00	-17.75
487	-59.95	-10.79	-50.74	-20.00	-0.10	-55.47	-75.57	53.22	-128.79	-110.00	-18.79
489.375	-60.79	-10.79	-50.74	-20.84	-0.10	-54.31	-75.25	53.22	-128.47	-110.00	-18.47
491.75	-59.22	-10.79	-50.76	-19.25	-0.10	-52.22	-71.57	53.22	-124.80	-110.00	-14.80
494.125	-56.94	-10.79	-50.70	-17.03	-0.06	-51.17	-68.25	53.22	-121.48	-110.00	-11.48
496.5	-56.10	-10.79	-50.60	-16.28	-0.09	-50.62	-67.00	53.22	-120.22	-110.00	-10.22
498.875	-52.69	-10.79	-50.66	-12.82	-0.09	-50.90	-63.80	53.22	-117.03	-110.00	-7.03
500	Refer to Table "1" for 500 - 518 MHz Conducted Spurious Emission Test Data										
518											
520.25	-54.71	-10.79	-50.72	-14.77	-0.15	-52.82	-67.74	53.22	-120.96	-110.00	-10.96
522.625	-56.89	-10.79	-50.79	-16.89	-0.15	-52.30	-69.34	53.22	-122.56	-110.00	-12.56
525	-59.96	-10.79	-50.76	-19.99	-0.08	-54.38	-74.45	53.22	-127.67	-110.00	-17.67
527.375	-61.57	-10.79	-50.80	-21.56	-0.07	-55.83	-77.46	53.22	-130.68	-110.00	-20.68

529.75	-61.63	-10.79	-50.81	-21.61	-0.08	-57.58	-79.27	53.22	-132.49	-110.00	-22.49
532.125	-61.00	-10.79	-50.76	-21.03	-0.13	-60.10	-81.26	53.22	-134.48	-110.00	-24.48
534.5	-59.82	-10.79	-50.75	-19.86	-0.12	-61.42	-81.40	53.22	-134.62	-110.00	-24.62
536.875	-59.95	-10.79	-50.72	-20.02	-0.15	-63.75	-83.93	53.22	-137.15	-110.00	-27.15
539.25	-57.64	-10.79	-50.61	-17.82	-0.12	-64.63	-82.58	53.22	-135.80	-110.00	-25.80
541.625	-60.06	-10.79	-50.64	-20.21	-0.10	-65.72	-86.03	53.22	-139.25	-110.00	-29.25
544	-62.87	-10.79	-50.70	-22.96	-0.10	-66.35	-89.41	53.22	-142.63	-110.00	-32.63
546.375	-64.71	-10.79	-50.69	-24.81	-0.11	-67.76	-92.68	53.22	-145.90	-110.00	-35.90
548.75	-64.84	-10.79	-50.68	-24.96	-0.12	-68.98	-94.06	53.22	-147.28	-110.00	-37.28
551.125	-64.66	-10.79	-50.73	-24.71	-0.09	-69.87	-94.68	53.22	-147.90	-110.00	-37.90
553.5	-64.73	-10.79	-50.68	-24.84	-0.14	-70.81	-95.79	53.22	-149.01	-110.00	-39.01
555.875	-64.51	-10.79	-50.76	-24.54	-0.12	-71.36	-96.03	53.22	-149.25	-110.00	-39.25
558.25	-64.21	-10.79	-50.71	-24.29	-0.06	-73.20	-97.55	53.22	-150.77	-110.00	-40.77
560.625	-63.95	-10.79	-50.68	-24.06	-0.10	-74.02	-98.18	53.22	-151.41	-110.00	-41.41
563	-63.68	-10.79	-50.75	-23.71	-0.12	-76.91	-100.74	53.22	-153.96	-110.00	-43.96
565.375	-63.43	-10.79	-50.72	-23.50	-0.16	-76.71	-100.38	53.22	-153.60	-110.00	-43.60
567.75	-63.03	-10.79	-50.78	-23.04	-0.16	-78.35	-101.55	53.22	-154.77	-110.00	-44.77
570.125	-62.82	-10.79	-50.87	-22.73	-0.13	-80.38	-103.24	53.22	-156.46	-110.00	-46.46
572.5	-62.64	-10.79	-50.79	-22.64	-0.18	-79.66	-102.48	53.22	-155.70	-110.00	-45.70
574.875	-62.73	-10.79	-50.85	-22.67	-0.14	-78.13	-100.95	53.22	-154.17	-110.00	-44.17
577.25	-63.12	-10.79	-50.90	-23.01	-0.14	-80.26	-103.40	53.22	-156.63	-110.00	-46.63
579.625	-63.95	-10.79	-50.72	-24.02	-0.13	-79.66	-103.82	53.22	-157.04	-110.00	-47.04
582	-64.50	-10.79	-50.72	-24.57	-0.12	-79.85	-104.54	53.22	-157.76	-110.00	-47.76
584.375	-64.85	-10.79	-50.72	-24.92	-0.10	-79.72	-104.74	53.22	-157.97	-110.00	-47.97
586.75	-64.98	-10.79	-50.68	-25.09	-0.16	-79.88	-105.13	53.22	-158.35	-110.00	-48.35
589.125	-65.14	-10.79	-50.66	-25.26	-0.13	-80.50	-105.90	53.22	-159.12	-110.00	-49.12
591.5	-65.19	-10.79	-50.64	-25.34	-0.13	-79.98	-105.44	53.22	-158.66	-110.00	-48.66
593.875	-65.03	-10.79	-50.60	-25.23	-0.11	-79.96	-105.29	53.22	-158.51	-110.00	-48.51
596.25	-64.96	-10.79	-50.69	-25.06	-0.15	-80.21	-105.42	53.22	-158.64	-110.00	-48.64
598.625	-64.90	-10.79	-50.64	-25.05	-0.13	-80.10	-105.28	53.22	-158.50	-110.00	-48.50
601	-64.81	-10.79	-50.71	-24.89	-0.14	-79.77	-104.79	53.22	-158.02	-110.00	-48.02
603.375	-64.93	-10.79	-50.75	-24.97	-0.17	-79.68	-104.82	53.22	-158.04	-110.00	-48.04
605.75	-64.90	-10.79	-50.68	-25.01	-0.14	-79.85	-104.99	53.22	-158.22	-110.00	-48.22
608.125	-64.90	-10.79	-50.73	-24.96	-0.15	-80.08	-105.19	53.22	-158.41	-110.00	-48.41
610.5	-64.88	-10.79	-50.79	-24.88	-0.11	-80.31	-105.31	53.22	-158.53	-110.00	-48.53
612.875	-64.92	-10.79	-50.73	-24.98	-0.11	-79.83	-104.91	53.22	-158.13	-110.00	-48.13
615.25	-64.91	-10.79	-50.79	-24.91	-0.05	-78.24	-103.21	53.22	-156.43	-110.00	-46.43
617.625	-64.88	-10.79	-50.83	-24.84	-0.04	-78.85	-103.73	53.22	-156.95	-110.00	-46.95
620	-65.13	-10.79	-50.79	-25.13	-0.07	-79.78	-104.98	53.22	-158.20	-110.00	-48.20
622.375	-65.01	-10.79	-50.86	-24.93	-0.14	-79.80	-104.87	53.22	-158.09	-110.00	-48.09

624.75	-65.26	-10.79	-50.79	-25.27	-0.21	-79.77	-105.24	53.22	-158.46	-110.00	-48.46
627.125	-65.54	-10.79	-50.82	-25.50	-0.21	-79.65	-105.37	53.22	-158.59	-110.00	-48.59
629.5	-65.84	-10.79	-50.76	-25.88	-0.21	-79.47	-105.55	53.22	-158.77	-110.00	-48.77
631.875	-66.09	-10.79	-50.64	-26.24	-0.13	-79.52	-105.90	53.22	-159.12	-110.00	-49.12
634.25	-66.23	-10.79	-50.76	-26.27	-0.09	-80.47	-106.82	53.22	-160.04	-110.00	-50.04
636.625	-66.66	-10.79	-50.66	-26.80	-0.08	-79.59	-106.46	53.22	-159.68	-110.00	-49.68
639	-66.84	-10.79	-50.75	-26.87	-0.10	-79.89	-106.86	53.22	-160.08	-110.00	-50.08
641.375	-66.96	-10.79	-50.63	-27.11	-0.12	-79.95	-107.18	53.22	-160.41	-110.00	-50.41
643.75	-67.44	-10.79	-50.76	-27.48	-0.17	-79.69	-107.34	53.22	-160.56	-110.00	-50.56
646.125	-67.67	-10.79	-50.75	-27.71	-0.17	-79.61	-107.49	53.22	-160.71	-110.00	-50.71
648.5	-68.02	-10.79	-50.77	-28.04	-0.17	-80.17	-108.38	53.22	-161.60	-110.00	-51.60
650.875	-68.50	-10.79	-50.71	-28.58	-0.16	-79.68	-108.42	53.22	-161.64	-110.00	-51.64
653.25	-69.03	-10.79	-50.73	-29.09	-0.14	-79.60	-108.82	53.22	-162.05	-110.00	-52.05
655.625	-69.36	-10.79	-50.74	-29.41	-0.15	-80.46	-110.03	53.22	-163.25	-110.00	-53.25
658	-69.88	-10.79	-50.67	-30.00	-0.17	-79.90	-110.06	53.22	-163.28	-110.00	-53.28
660.375	-70.68	-10.79	-50.66	-30.81	-0.20	-80.59	-111.59	53.22	-164.82	-110.00	-54.82
662.75	-71.26	-10.79	-50.63	-31.43	-0.17	-80.87	-112.47	53.22	-165.69	-110.00	-55.69
665.125	-71.73	-10.79	-50.68	-31.85	-0.19	-80.92	-112.95	53.22	-166.17	-110.00	-56.17
667.5	-72.47	-10.79	-50.80	-32.46	-0.19	-80.10	-112.74	53.22	-165.97	-110.00	-55.97
669.875	-72.69	-10.79	-50.74	-32.74	-0.19	-80.78	-113.71	53.22	-166.93	-110.00	-56.93
672.25	-72.76	-10.79	-50.73	-32.82	-0.22	-80.11	-113.15	53.22	-166.37	-110.00	-56.37
674.625	-73.18	-10.79	-50.90	-33.07	-0.22	-80.05	-113.35	53.22	-166.57	-110.00	-56.57
677	-73.54	-10.79	-50.85	-33.48	-0.21	-80.69	-114.39	53.22	-167.61	-110.00	-57.61
679.375	-73.79	-10.79	-50.79	-33.78	-0.22	-78.95	-112.95	53.22	-166.18	-110.00	-56.18
681.75	-74.23	-10.79	-50.77	-34.26	-0.29	-79.61	-114.16	53.22	-167.38	-110.00	-57.38
684.125	-74.70	-10.79	-50.76	-34.72	-0.56	-80.32	-115.60	53.22	-168.83	-110.00	-58.83
686.5	-75.24	-10.79	-50.75	-35.28	-1.00	-80.56	-116.84	53.22	-170.06	-110.00	-60.06
688.875	-75.72	-10.79	-50.81	-35.70	-1.45	-80.65	-117.80	53.22	-171.02	-110.00	-61.02
691.25	-76.18	-10.79	-50.64	-36.33	-2.40	-80.09	-118.82	53.22	-172.04	-110.00	-62.04
693.625	-76.89	-10.79	-50.60	-37.07	-2.91	-79.73	-119.72	53.22	-172.94	-110.00	-62.94
696	-77.48	-10.79	-50.75	-37.52	-3.45	-79.91	-120.88	53.22	-174.10	-110.00	-64.10
698.375	-77.95	-10.79	-50.77	-37.97	-4.02	-79.11	-121.10	53.22	-174.32	-110.00	-64.32
700.75	-78.62	-10.79	-50.81	-38.60	-4.23	-80.08	-122.91	53.22	-176.13	-110.00	-66.13
703.125	-79.10	-10.79	-50.82	-39.07	-4.63	-78.54	-122.24	53.22	-175.46	-110.00	-65.46
705.5	-79.50	-10.79	-50.70	-39.59	-4.80	-79.58	-123.97	53.22	-177.20	-110.00	-67.20
707.875	-79.92	-10.79	-50.83	-39.88	-5.60	-79.55	-125.03	53.22	-178.25	-110.00	-68.25
710.25	-80.38	-10.79	-50.77	-40.40	-6.21	-79.06	-125.67	53.22	-178.89	-110.00	-68.89
712.625	-80.54	-10.79	-50.81	-40.52	-6.97	-78.28	-125.77	53.22	-178.99	-110.00	-68.99
715	-80.64	-10.79	-50.86	-40.57	-8.87	-78.27	-127.70	53.22	-180.92	-110.00	-70.92
717.375	-80.48	-10.79	-50.82	-40.45	-9.87	-79.21	-129.54	53.22	-182.76	-110.00	-72.76

719.75	-80.45	-10.79	-50.85	-40.38	-10.79	-79.91	-131.07	53.22	-184.30	-110.00	-74.30
722.125	-80.25	-10.79	-50.90	-40.14	-12.49	-80.26	-132.90	53.22	-186.12	-110.00	-76.12
724.5	-80.15	-10.79	-50.87	-40.07	-13.17	-79.25	-132.49	53.22	-185.71	-110.00	-75.71
726.875	-79.95	-10.79	-50.84	-39.90	-14.30	-79.71	-133.92	53.22	-187.14	-110.00	-77.14
729.25	-80.08	-10.79	-50.76	-40.10	-14.74	-79.12	-133.96	53.22	-187.19	-110.00	-77.19
731.625	-79.90	-10.79	-50.71	-39.98	-15.08	-80.11	-135.17	53.22	-188.39	-110.00	-78.39
734	-80.10	-10.79	-50.70	-40.18	-15.63	-78.15	-133.96	53.22	-187.18	-110.00	-77.18
736.375	-80.04	-10.79	-50.68	-40.16	-15.89	-79.69	-135.74	53.22	-188.96	-110.00	-78.96
738.75	-79.91	-10.79	-50.80	-39.90	-16.50	-79.72	-136.12	53.22	-189.35	-110.00	-79.35
741.125	-79.95	-10.79	-50.63	-40.11	-17.07	-79.86	-137.03	53.22	-190.25	-110.00	-80.25
743.5	-80.10	-10.79	-50.66	-40.24	-17.65	-78.80	-136.68	53.22	-189.91	-110.00	-79.91
745.875	-80.03	-10.79	-50.83	-39.99	-19.19	-80.05	-139.23	53.22	-192.45	-110.00	-82.45
748.25	-80.12	-10.79	-50.90	-40.01	-20.01	-79.95	-139.98	53.22	-193.20	-110.00	-83.20
750.625	-80.14	-10.79	-50.84	-40.09	-21.68	-80.03	-141.79	53.22	-195.02	-110.00	-85.02
753	-80.25	-10.79	-50.84	-40.21	-22.48	-79.46	-142.14	53.22	-195.36	-110.00	-85.36
755.375	-80.51	-10.79	-50.87	-40.43	-23.17	-79.14	-142.74	53.22	-195.96	-110.00	-85.96
757.75	-80.61	-10.79	-50.85	-40.55	-24.42	-79.40	-144.37	53.22	-197.60	-110.00	-87.60
760.125	-80.60	-10.79	-50.90	-40.49	-24.90	-79.59	-144.98	53.22	-198.21	-110.00	-88.21
762.5	-80.97	-10.79	-50.83	-40.94	-25.67	-80.04	-146.65	53.22	-199.87	-110.00	-89.87
764.875	-81.09	-10.79	-50.81	-41.07	-25.92	-80.28	-147.27	53.22	-200.49	-110.00	-90.49
767.25	-81.15	-10.79	-50.84	-41.10	-26.16	-80.28	-147.54	53.22	-200.76	-110.00	-90.76
769.625	-81.40	-10.79	-50.72	-41.47	-26.52	-79.10	-147.09	53.22	-200.31	-110.00	-90.31
772	-81.63	-10.79	-50.77	-41.65	-26.68	-79.44	-147.77	53.22	-200.99	-110.00	-90.99
774.375	-81.62	-10.79	-50.84	-41.57	-27.18	-79.92	-148.67	53.22	-201.89	-110.00	-91.89
776.75	-81.75	-10.79	-50.74	-41.80	-27.53	-79.23	-148.55	53.22	-201.78	-110.00	-91.78
779.125	-81.75	-10.79	-50.79	-41.75	-28.04	-80.34	-150.13	53.22	-203.35	-110.00	-93.35
781.5	-82.06	-10.79	-50.72	-42.13	-29.25	-79.42	-150.80	53.22	-204.02	-110.00	-94.02
783.875	-81.82	-10.79	-50.75	-41.86	-30.02	-80.15	-152.03	53.22	-205.25	-110.00	-95.25
786.25	-81.65	-10.79	-50.79	-41.65	-31.45	-79.73	-152.83	53.22	-206.06	-110.00	-96.06
788.625	-81.71	-10.79	-50.75	-41.75	-32.20	-79.75	-153.70	53.22	-206.92	-110.00	-96.92
791	-81.43	-10.79	-50.68	-41.55	-32.81	-79.51	-153.86	53.22	-207.09	-110.00	-97.09
793.375	-81.10	-10.79	-50.88	-41.01	-33.98	-79.54	-154.53	53.22	-207.75	-110.00	-97.75
795.75	-80.81	-10.79	-50.81	-40.79	-34.43	-79.90	-155.12	53.22	-208.34	-110.00	-98.34
798.125	-80.33	-10.79	-50.81	-40.31	-35.25	-78.56	-154.12	53.22	-207.34	-110.00	-97.34
800.5	-80.15	-10.79	-50.83	-40.11	-35.49	-79.87	-155.47	53.22	-208.69	-110.00	-98.69
802.875	-79.94	-10.79	-50.81	-39.92	-35.86	-79.29	-155.07	53.22	-208.29	-110.00	-98.29
805.25	-79.58	-10.79	-50.86	-39.50	-35.97	-78.98	-154.46	53.22	-207.68	-110.00	-97.68
807.625	-79.26	-10.79	-50.79	-39.26	-36.11	-79.72	-155.09	53.22	-208.31	-110.00	-98.31
810	-79.21	-10.79	-50.81	-39.19	-36.28	-78.58	-154.05	53.22	-207.27	-110.00	-97.27
812.375	-79.43	-10.79	-50.77	-39.44	-36.46	-79.74	-155.64	53.22	-208.87	-110.00	-98.87

814.75	-79.71	-10.79	-50.84	-39.66	-37.02	-80.00	-156.68	53.22	-209.90	-110.00	-99.90
817.125	-80.42	-10.79	-50.66	-40.55	-37.41	-80.03	-158.00	53.22	-211.22	-110.00	-101.22
819.5	-81.59	-10.79	-50.72	-41.66	-37.98	-79.00	-158.65	53.22	-211.87	-110.00	-101.87
821.875	-82.67	-10.79	-50.75	-42.71	-39.14	-79.79	-161.65	53.22	-214.87	-110.00	-104.87
824.25	-83.60	-10.79	-50.63	-43.76	-39.86	-79.95	-163.57	53.22	-216.79	-110.00	-106.79
826.625	-83.86	-10.79	-50.74	-43.91	-40.93	-79.68	-164.51	53.22	-217.74	-110.00	-107.74
829	-83.69	-10.79	-50.77	-43.71	-41.80	-79.46	-164.97	53.22	-218.19	-110.00	-108.19
831.375	-84.11	-10.79	-50.86	-44.04	-42.35	-78.11	-164.50	53.22	-217.72	-110.00	-107.72
833.75	-83.82	-10.79	-50.83	-43.78	-43.26	-79.37	-166.41	53.22	-219.63	-110.00	-109.63
836.125	-83.60	-10.79	-50.74	-43.65	-43.59	-79.50	-166.74	53.22	-219.97	-110.00	-109.97
838.5	-83.63	-10.79	-50.76	-43.66	-44.26	-80.00	-167.92	53.22	-221.14	-110.00	-111.14
840.875	-83.34	-10.79	-50.73	-43.40	-44.41	-79.63	-167.45	53.22	-220.67	-110.00	-110.67
843.25	-83.41	-10.79	-50.86	-43.34	-44.45	-79.77	-167.55	53.22	-220.78	-110.00	-110.78
845.625	-83.01	-10.79	-50.85	-42.95	-44.61	-79.53	-167.08	53.22	-220.31	-110.00	-110.31
848	-83.16	-10.79	-50.86	-43.09	-44.71	-78.66	-166.46	53.22	-219.69	-110.00	-109.69
850.375	-83.22	-10.79	-50.78	-43.23	-44.85	-78.57	-166.65	53.22	-219.87	-110.00	-109.87
852.75	-83.07	-10.79	-50.79	-43.07	-44.99	-79.48	-167.55	53.22	-220.77	-110.00	-110.77
855.125	-83.13	-10.79	-50.79	-43.12	-45.29	-79.19	-167.61	53.22	-220.83	-110.00	-110.83
857.5	-82.52	-10.79	-50.79	-42.52	-46.29	-80.03	-168.84	53.22	-222.06	-110.00	-112.06
859.875	-82.05	-10.79	-50.78	-42.06	-46.77	-78.66	-167.49	53.22	-220.71	-110.00	-110.71
862.25	-81.59	-10.79	-50.78	-41.60	-48.04	-79.36	-169.00	53.22	-222.22	-110.00	-112.22
864.625	-80.91	-10.79	-50.70	-41.00	-48.64	-78.04	-167.68	53.22	-220.90	-110.00	-110.90
867	-80.19	-10.79	-50.74	-40.24	-49.27	-78.31	-167.81	53.22	-221.03	-110.00	-111.03
869.375	-79.43	-10.79	-50.79	-39.43	-50.35	-79.35	-169.13	53.22	-222.35	-110.00	-112.35
871.75	-79.00	-10.79	-50.71	-39.08	-50.65	-78.87	-168.60	53.22	-221.82	-110.00	-111.82
874.125	-78.63	-10.79	-50.72	-38.71	-51.34	-79.24	-169.29	53.22	-222.52	-110.00	-112.52
876.5	-78.65	-10.79	-50.70	-38.73	-51.65	-78.83	-169.21	53.22	-222.43	-110.00	-112.43
878.875	-78.45	-10.79	-50.81	-38.44	-51.97	-78.62	-169.03	53.22	-222.25	-110.00	-112.25
881.25	-78.00	-10.79	-50.79	-38.00	-51.85	-79.57	-169.42	53.22	-222.64	-110.00	-112.64
883.625	-77.77	-10.79	-50.85	-37.70	-51.90	-79.54	-169.15	53.22	-222.37	-110.00	-112.37
886	-77.54	-10.79	-50.81	-37.52	-52.01	-78.27	-167.81	53.22	-221.03	-110.00	-111.03
888.375	-77.23	-10.79	-50.77	-37.25	-52.19	-79.57	-169.01	53.22	-222.24	-110.00	-112.24
890.75	-76.82	-10.79	-50.91	-36.70	-52.64	-79.64	-168.99	53.22	-222.21	-110.00	-112.21
893.125	-76.77	-10.79	-50.77	-36.80	-52.89	-79.61	-169.30	53.22	-222.52	-110.00	-112.52
895.5	-76.65	-10.79	-50.93	-36.51	-53.53	-78.63	-168.67	53.22	-221.89	-110.00	-111.89
897.875	-76.69	-10.79	-50.78	-36.70	-54.80	-79.29	-170.78	53.22	-224.00	-110.00	-114.00
900.25	-76.82	-10.79	-50.74	-36.87	-55.16	-79.76	-171.80	53.22	-225.02	-110.00	-115.02
902.625	-76.86	-10.79	-50.85	-36.80	-56.18	-79.52	-172.50	53.22	-225.72	-110.00	-115.72
905	-77.00	-10.79	-50.80	-36.98	-57.06	-79.35	-173.40	53.22	-226.62	-110.00	-116.62
907.375	-76.90	-10.79	-50.75	-36.94	-57.32	-79.67	-173.93	53.22	-227.16	-110.00	-117.16

909.75	-76.93	-10.79	-50.78	-36.93	-57.81	-79.19	-173.94	53.22	-227.16	-110.00	-117.16
912.125	-76.61	-10.79	-50.73	-36.66	-58.02	-79.54	-174.23	53.22	-227.45	-110.00	-117.45
914.5	-76.36	-10.79	-50.80	-36.34	-58.62	-79.62	-174.59	53.22	-227.81	-110.00	-117.81
916.875	-75.81	-10.79	-50.69	-35.90	-58.54	-79.36	-173.80	53.22	-227.02	-110.00	-117.02
919.25	-75.41	-10.79	-50.67	-35.52	-58.49	-79.64	-173.65	53.22	-226.87	-110.00	-116.87
921.625	-74.88	-10.79	-50.60	-35.06	-58.34	-79.14	-172.54	53.22	-225.77	-110.00	-115.77
924	-74.60	-10.79	-50.74	-34.65	-58.54	-79.44	-172.62	53.22	-225.84	-110.00	-115.84
926.375	-74.59	-10.79	-50.67	-34.70	-58.79	-79.57	-173.06	53.22	-226.28	-110.00	-116.28
928.75	-74.01	-10.79	-50.69	-34.11	-59.17	-79.87	-173.16	53.22	-226.38	-110.00	-116.38
931.125	-73.75	-10.79	-50.81	-33.73	-59.75	-79.74	-173.22	53.22	-226.44	-110.00	-116.44
933.5	-73.40	-10.79	-50.79	-33.40	-60.39	-79.26	-173.05	53.22	-226.27	-110.00	-116.27
935.875	-72.98	-10.79	-50.85	-32.92	-60.48	-80.33	-173.74	53.22	-226.96	-110.00	-116.96
938.25	-72.72	-10.79	-50.87	-32.64	-62.11	-80.50	-175.26	53.22	-228.48	-110.00	-118.48
940.625	-72.27	-10.79	-50.74	-32.32	-62.78	-80.63	-175.74	53.22	-228.96	-110.00	-118.96
943	-71.87	-10.79	-50.82	-31.84	-62.76	-79.22	-173.82	53.22	-227.04	-110.00	-117.04
945.375	-71.52	-10.79	-50.75	-31.55	-63.62	-79.73	-174.90	53.22	-228.13	-110.00	-118.13
947.75	-71.39	-10.79	-50.72	-31.46	-64.22	-80.68	-176.36	53.22	-229.59	-110.00	-119.59
950.125	-71.40	-10.79	-50.77	-31.42	-64.03	-80.21	-175.66	53.22	-228.89	-110.00	-118.89
952.5	-71.62	-10.79	-50.70	-31.71	-64.20	-79.65	-175.56	53.22	-228.78	-110.00	-118.78
954.875	-72.22	-10.79	-50.81	-32.21	-64.08	-78.86	-175.15	53.22	-228.38	-110.00	-118.38
957.25	-72.74	-10.79	-50.71	-32.81	-64.40	-80.28	-177.49	53.22	-230.72	-110.00	-120.72
959.625	-73.12	-10.79	-50.66	-33.25	-64.32	-80.16	-177.73	53.22	-230.95	-110.00	-120.95
962	-73.53	-10.79	-50.75	-33.57	-64.61	-78.67	-176.85	53.22	-230.07	-110.00	-120.07
964.375	-73.98	-10.79	-50.71	-34.06	-64.65	-79.77	-178.47	53.22	-231.70	-110.00	-121.70
966.75	-74.43	-10.79	-50.67	-34.55	-65.12	-79.88	-179.56	53.22	-232.78	-110.00	-122.78
969.125	-75.18	-10.79	-50.81	-35.16	-65.65	-80.34	-181.15	53.22	-234.37	-110.00	-124.37
971.5	-75.78	-10.79	-50.73	-35.84	-65.86	-78.69	-180.40	53.22	-233.62	-110.00	-123.62
973.875	-76.53	-10.79	-50.81	-36.51	-66.98	-79.50	-182.99	53.22	-236.21	-110.00	-126.21
976.25	-77.10	-10.79	-50.92	-36.96	-68.03	-79.54	-184.53	53.22	-237.76	-110.00	-127.76
978.625	-77.17	-10.79	-50.88	-37.08	-67.13	-79.73	-183.95	53.22	-237.17	-110.00	-127.17
981	-76.63	-10.79	-50.97	-36.44	-68.69	-78.99	-184.12	53.22	-237.35	-110.00	-127.35
983.375	-73.96	-10.79	-50.84	-33.91	-69.30	-79.98	-183.18	53.22	-236.40	-110.00	-126.40
985.75	-72.45	-10.79	-50.81	-32.43	-69.71	-79.73	-181.87	53.22	-235.09	-110.00	-125.09
988.125	-71.56	-10.79	-50.83	-31.52	-68.99	-78.76	-179.27	53.22	-232.49	-110.00	-122.49
990.5	-70.32	-10.79	-50.67	-30.44	-70.43	-79.93	-180.80	53.22	-234.02	-110.00	-124.02
992.875	-67.33	-10.79	-50.60	-27.52	-69.78	-79.52	-176.82	53.22	-230.04	-110.00	-120.04
995.25	-65.36	-10.79	-50.67	-25.48	-69.54	-79.53	-174.56	53.22	-227.78	-110.00	-117.78
997.625	-63.26	-10.79	-50.60	-23.45	-69.21	-79.06	-171.73	53.22	-224.95	-110.00	-114.95
1000	-59.54	-10.79	-50.64	-19.69	-70.17	-79.24	-169.09	53.22	-222.32	-110.00	-112.32

Table 3
1000 – 6000 MHz_ ATSC 3.0

Freq	1	2	3	4	5	6	7	8	9	Limit	Margin
MHz	dBm	dB	dB	dBm	dB	dB	dB	dBm	dBm	dBc	dB
1000	-53.25	-10.79	-50.52	-13.53	-70.61	-81.20	-165.33	53.22	-218.56	-110.00	-108.56
1012.5	-19.75	-10.79	-50.71	20.18	-73.18	-85.38	-138.38	53.22	-191.60	-110.00	-81.60
1025	-22.07	-10.79	-50.81	17.95	-74.87	-87.03	-143.95	53.22	-197.18	-110.00	-87.18
1037.5	-54.99	-10.79	-50.70	-15.08	-74.37	-83.55	-173.00	53.22	-226.22	-110.00	-116.22
1050	-69.62	-10.79	-50.58	-29.83	-73.76	-84.30	-187.89	53.22	-241.11	-110.00	-131.11
1062.5	-81.27	-10.79	-50.80	-41.25	-74.71	-82.75	-198.71	53.22	-251.94	-110.00	-141.94
1075	-78.77	-10.79	-50.77	-38.79	-80.12	-80.05	-198.96	53.22	-252.18	-110.00	-142.18
1087.5	-75.92	-10.79	-50.67	-36.04	-84.09	-86.22	-206.36	53.22	-259.58	-110.00	-149.58
1100	-77.53	-10.79	-50.64	-37.67	-81.40	-78.95	-198.03	53.22	-251.25	-110.00	-141.25
1112.5	-79.83	-10.79	-50.76	-39.87	-81.67	-79.99	-201.53	53.22	-254.75	-110.00	-144.75
1125	-84.43	-10.79	-50.82	-44.40	-102.48	-69.30	-216.18	53.22	-269.40	-110.00	-159.40
1137.5	-87.93	-10.79	-50.60	-48.12	-86.77	-78.05	-212.94	53.22	-266.17	-110.00	-156.17
1150	-85.20	-10.79	-50.79	-45.21	-82.67	-83.87	-211.75	53.22	-264.97	-110.00	-154.97
1162.5	-83.55	-10.79	-50.77	-43.57	-81.15	-84.63	-209.35	53.22	-262.57	-110.00	-152.57
1175	-81.69	-10.79	-50.69	-41.79	-89.45	-80.96	-212.19	53.22	-265.41	-110.00	-155.41
1187.5	-83.02	-10.79	-50.70	-43.11	-90.08	-85.30	-218.48	53.22	-271.71	-110.00	-161.71
1200	-89.81	-10.79	-50.86	-49.74	-82.14	-81.07	-212.95	53.22	-266.17	-110.00	-156.17
1212.5	-93.87	-10.79	-50.83	-53.84	-93.94	-79.56	-227.34	53.22	-280.56	-110.00	-170.56
1225	-94.57	-10.79	-50.80	-54.56	-93.91	-76.89	-225.36	53.22	-278.58	-110.00	-168.58
1237.5	-91.13	-10.79	-50.55	-51.37	-86.07	-75.22	-212.65	53.22	-265.88	-110.00	-155.88
1250	-93.00	-10.79	-50.77	-53.01	-90.12	-74.64	-217.77	53.22	-270.99	-110.00	-160.99
1262.5	-92.89	-10.79	-50.78	-52.90	-97.77	-71.43	-222.10	53.22	-275.32	-110.00	-165.32
1275	-92.56	-10.79	-50.52	-52.83	-84.48	-67.41	-204.72	53.22	-257.94	-110.00	-147.94
1287.5	-93.23	-10.79	-50.70	-53.32	-87.11	-61.69	-202.13	53.22	-255.35	-110.00	-145.35
1300	-93.83	-10.79	-50.74	-53.87	-85.55	-55.09	-194.52	53.22	-247.74	-110.00	-137.74
1312.5	-94.73	-10.79	-50.68	-54.84	-106.30	-46.88	-208.02	53.22	-261.24	-110.00	-151.24
1325	-94.41	-10.79	-50.51	-54.69	-83.55	-22.44	-160.68	53.22	-213.90	-110.00	-103.90
1337.5	-93.79	-10.79	-50.78	-53.80	-87.43	-34.90	-176.13	53.22	-229.35	-110.00	-119.35
1350	-89.60	-10.79	-50.78	-49.61	-89.13	-35.56	-174.29	53.22	-227.52	-110.00	-117.52
1362.5	-86.87	-10.79	-50.48	-47.18	-78.84	-28.56	-154.59	53.22	-207.81	-110.00	-97.81
1375	-86.33	-10.79	-50.60	-46.52	-91.01	-21.90	-159.42	53.22	-212.65	-110.00	-102.65
1387.5	-85.98	-10.79	-50.66	-46.11	-86.98	-34.26	-167.36	53.22	-220.58	-110.00	-110.58
1400	-85.91	-10.79	-50.49	-46.21	-88.45	-37.76	-172.41	53.22	-225.64	-110.00	-115.64
1412.5	-86.82	-10.79	-50.43	-47.19	-84.05	-39.27	-170.51	53.22	-223.74	-110.00	-113.74
1425	-86.75	-10.79	-50.55	-46.99	-88.86	-39.54	-175.39	53.22	-228.61	-110.00	-118.61

1437.5	-85.48	-10.79	-50.60	-45.67	-90.75	-39.57	-175.99	53.22	-229.22	-110.00	-119.22
1450	-84.68	-10.79	-50.37	-45.09	-92.76	-37.52	-175.36	53.22	-228.59	-110.00	-118.59
1462.5	-84.50	-10.79	-50.49	-44.80	-87.33	-34.80	-166.93	53.22	-220.15	-110.00	-110.15
1475	-85.98	-10.79	-50.43	-46.34	-96.45	-32.13	-174.93	53.22	-228.15	-110.00	-118.15
1487.5	-86.95	-10.79	-50.67	-47.07	-91.80	-25.72	-164.59	53.22	-217.81	-110.00	-107.81
1500	-83.36	-10.79	-50.18	-43.97	-96.86	-3.81	-144.63	53.22	-197.86	-110.00	-87.86
1512.5	-56.98	-10.79	-50.33	-17.44	-94.56	-25.14	-137.14	53.22	-190.36	-110.00	-80.36
1525	-41.64	-10.79	-50.48	-1.95	-86.60	-32.16	-120.72	53.22	-173.94	-110.00	-63.94
1537.5	-46.07	-10.79	-50.61	-6.26	-103.80	-3.00	-113.06	53.22	-166.28	-110.00	-56.28
1550	-76.36	-10.79	-50.02	-37.13	-83.48	-26.28	-146.89	53.22	-200.11	-110.00	-90.11
1562.5	-87.97	-10.79	-50.42	-48.34	-84.66	-21.06	-154.07	53.22	-207.29	-110.00	-97.29
1575	-88.10	-10.79	-50.33	-48.55	-95.39	-25.15	-169.10	53.22	-222.32	-110.00	-112.32
1587.5	-86.74	-10.79	-50.11	-47.41	-86.92	-9.46	-143.80	53.22	-197.02	-110.00	-87.02
1600	-85.36	-10.79	-50.13	-46.02	-84.68	-21.12	-151.81	53.22	-205.04	-110.00	-95.04
1612.5	-83.81	-10.79	-50.38	-44.22	-86.71	-25.06	-155.99	53.22	-209.21	-110.00	-99.21
1625	-82.47	-10.79	-50.34	-42.93	-94.90	-24.92	-162.74	53.22	-215.97	-110.00	-105.97
1637.5	-81.91	-10.79	-49.98	-42.72	-85.09	-23.70	-151.51	53.22	-204.74	-110.00	-94.74
1650	-81.93	-10.79	-50.09	-42.63	-97.28	-17.33	-157.24	53.22	-210.47	-110.00	-100.47
1662.5	-83.93	-10.79	-50.17	-44.55	-96.86	-19.40	-160.81	53.22	-214.03	-110.00	-104.03
1675	-84.64	-10.79	-49.95	-45.48	-87.36	-29.64	-162.47	53.22	-215.69	-110.00	-105.69
1687.5	-86.43	-10.79	-49.92	-47.30	-84.56	-36.66	-168.53	53.22	-221.75	-110.00	-111.75
1700	-90.02	-10.79	-50.05	-50.76	-86.54	-41.79	-179.09	53.22	-232.31	-110.00	-122.31
1712.5	-92.98	-10.79	-50.01	-53.76	-91.58	-44.41	-189.75	53.22	-242.97	-110.00	-132.97
1725	-93.39	-10.79	-49.73	-54.45	-84.76	-48.26	-187.47	53.22	-240.69	-110.00	-130.69
1737.5	-95.18	-10.79	-49.84	-56.13	-96.23	-52.18	-204.54	53.22	-257.76	-110.00	-147.76
1750	-94.84	-10.79	-50.04	-55.59	-101.02	-54.42	-211.03	53.22	-264.25	-110.00	-154.25
1762.5	-95.11	-10.79	-49.70	-56.20	-110.63	-58.81	-225.63	53.22	-278.86	-110.00	-168.86
1775	-93.22	-10.79	-49.79	-54.22	-87.50	-64.92	-206.65	53.22	-259.87	-110.00	-149.87
1787.5	-94.30	-10.79	-49.74	-55.34	-92.87	-74.41	-222.63	53.22	-275.85	-110.00	-165.85
1800	-93.92	-10.79	-49.92	-54.80	-89.44	-77.20	-221.44	53.22	-274.66	-110.00	-164.66
1812.5	-93.20	-10.79	-49.58	-54.42	-90.84	-66.03	-211.28	53.22	-264.51	-110.00	-154.51
1825	-95.27	-10.79	-49.70	-56.36	-85.09	-61.17	-202.62	53.22	-255.84	-110.00	-145.84
1837.5	-93.72	-10.79	-49.95	-54.57	-86.58	-56.39	-197.54	53.22	-250.76	-110.00	-140.76
1850	-93.47	-10.79	-49.90	-54.36	-84.16	-53.45	-191.97	53.22	-245.19	-110.00	-135.19
1862.5	-94.63	-10.79	-49.62	-55.80	-85.35	-50.38	-191.52	53.22	-244.75	-110.00	-134.75
1875	-95.05	-10.79	-49.77	-56.07	-98.73	-38.90	-193.70	53.22	-246.93	-110.00	-136.93
1887.5	-92.50	-10.79	-49.90	-53.39	-91.09	-69.73	-214.21	53.22	-267.43	-110.00	-157.43
1900	-91.35	-10.79	-49.75	-52.39	-86.96	-50.52	-189.88	53.22	-243.10	-110.00	-133.10
1912.5	-90.91	-10.79	-49.49	-52.22	-93.29	-45.63	-191.14	53.22	-244.36	-110.00	-134.36
1925	-91.30	-10.79	-49.81	-52.28	-83.67	-40.69	-176.63	53.22	-229.86	-110.00	-119.86

1937.5	-90.87	-10.79	-49.59	-52.06	-103.92	-23.98	-179.97	53.22	-233.19	-110.00	-123.19
1950	-87.04	-10.79	-49.37	-48.46	-85.21	-2.95	-136.62	53.22	-189.84	-110.00	-79.84
1962.5	-84.92	-10.79	-49.28	-46.43	-85.35	-19.51	-151.29	53.22	-204.52	-110.00	-94.52
1975	-84.75	-10.79	-49.26	-46.28	-88.22	-31.30	-165.81	53.22	-219.03	-110.00	-109.03
1987.5	-84.62	-10.79	-49.25	-46.16	-82.97	-37.22	-166.35	53.22	-219.57	-110.00	-109.57
2000	-82.29	-10.79	-46.55	-46.53	-86.32	-39.99	-172.83	53.22	-226.06	-110.00	-116.06
2012.5	-71.89	-10.79	-48.95	-33.73	-84.82	-46.48	-165.04	53.22	-218.26	-110.00	-108.26
2025	-41.63	-10.79	-48.81	-3.61	-91.95	-17.04	-112.59	53.22	-165.82	-110.00	-55.82
2037.5	-36.15	-10.79	-48.90	1.96	-80.14	-20.72	-98.89	53.22	-152.11	-110.00	-42.11
2050	-43.07	-10.79	-48.94	-4.92	-82.62	-38.39	-125.93	53.22	-179.15	-110.00	-69.15
2062.5	-72.11	-10.79	-48.61	-34.30	-85.05	-59.57	-178.92	53.22	-232.15	-110.00	-122.15
2075	-79.13	-10.79	-48.65	-41.27	-92.93	-48.14	-182.34	53.22	-235.56	-110.00	-125.56
2087.5	-81.85	-10.79	-48.52	-44.11	-85.02	-40.40	-169.54	53.22	-222.76	-110.00	-112.76
2100	-82.45	-10.79	-48.37	-44.87	-85.00	-33.65	-163.51	53.22	-216.73	-110.00	-106.73
2112.5	-81.82	-10.79	-48.54	-44.06	-87.42	-26.68	-158.17	53.22	-211.39	-110.00	-101.39
2125	-79.52	-10.79	-48.26	-42.05	-89.49	-6.24	-137.78	53.22	-191.00	-110.00	-81.00
2137.5	-78.33	-10.79	-48.47	-40.65	-88.89	-17.71	-147.24	53.22	-200.47	-110.00	-90.47
2150	-79.36	-10.79	-48.14	-42.00	-91.77	-37.05	-170.82	53.22	-224.04	-110.00	-114.04
2162.5	-83.63	-10.79	-48.17	-46.25	-91.42	-38.88	-176.55	53.22	-229.77	-110.00	-119.77
2175	-89.57	-10.79	-48.31	-52.05	-94.74	-49.25	-196.04	53.22	-249.26	-110.00	-139.26
2187.5	-92.63	-10.79	-48.14	-55.28	-88.84	-53.91	-198.03	53.22	-251.25	-110.00	-141.25
2200	-93.72	-10.79	-48.15	-56.35	-83.66	-44.32	-184.34	53.22	-237.56	-110.00	-127.56
2212.5	-92.13	-10.79	-47.92	-55.00	-88.25	-35.15	-178.40	53.22	-231.62	-110.00	-121.62
2225	-91.94	-10.79	-47.96	-54.77	-83.87	-12.88	-151.53	53.22	-204.75	-110.00	-94.75
2237.5	-93.49	-10.79	-47.95	-56.33	-87.46	-22.61	-166.41	53.22	-219.63	-110.00	-109.63
2250	-92.84	-10.79	-47.74	-55.89	-86.00	-27.52	-169.41	53.22	-222.64	-110.00	-112.64
2262.5	-91.84	-10.79	-47.78	-54.86	-95.61	-51.80	-202.27	53.22	-255.49	-110.00	-145.49
2275	-92.04	-10.79	-47.87	-54.97	-88.15	-34.31	-177.43	53.22	-230.65	-110.00	-120.65
2287.5	-92.47	-10.79	-47.93	-55.33	-79.98	-21.20	-156.52	53.22	-209.74	-110.00	-99.74
2300	-90.60	-10.79	-47.62	-53.77	-88.47	-15.12	-157.36	53.22	-210.58	-110.00	-100.58
2312.5	-93.36	-10.79	-47.76	-56.39	-89.66	-48.13	-194.17	53.22	-247.40	-110.00	-137.40
2325	-90.86	-10.79	-47.85	-53.81	-86.06	-69.69	-209.56	53.22	-262.78	-110.00	-152.78
2337.5	-90.35	-10.79	-47.96	-53.18	-88.30	-72.77	-214.25	53.22	-267.48	-110.00	-157.48
2350	-91.01	-10.79	-47.81	-53.98	-89.69	-71.61	-215.28	53.22	-268.50	-110.00	-158.50
2362.5	-91.08	-10.79	-47.87	-54.00	-83.55	-83.20	-220.75	53.22	-273.97	-110.00	-163.97
2375	-91.26	-10.79	-47.83	-54.22	-95.32	-79.04	-228.58	53.22	-281.80	-110.00	-171.80
2387.5	-91.01	-10.79	-47.94	-53.86	-90.76	-99.52	-244.14	53.22	-297.37	-110.00	-187.37
2400	-91.23	-10.79	-47.83	-54.19	-91.37	-83.80	-229.36	53.22	-282.58	-110.00	-172.58
2412.5	-90.66	-10.79	-47.63	-53.82	-85.60	-84.84	-224.26	53.22	-277.48	-110.00	-167.48
2425	-91.00	-10.79	-47.74	-54.05	-98.51	-82.59	-235.15	53.22	-288.37	-110.00	-178.37

2437.5	-91.67	-10.79	-47.68	-54.77	-92.88	-81.93	-229.59	53.22	-282.81	-110.00	-172.81
2450	-91.08	-10.79	-47.79	-54.08	-81.84	-82.50	-218.42	53.22	-271.64	-110.00	-161.64
2462.5	-89.80	-10.79	-47.63	-52.96	-88.10	-81.88	-222.94	53.22	-276.16	-110.00	-166.16
2475	-91.67	-10.79	-47.56	-54.89	-83.31	-71.46	-209.66	53.22	-262.88	-110.00	-152.88
2487.5	-90.82	-10.79	-47.56	-54.04	-83.54	-55.30	-192.88	53.22	-246.10	-110.00	-136.10
2500	-90.78	-10.79	-47.42	-54.15	-88.32	-39.90	-182.37	53.22	-235.59	-110.00	-125.59
2512.5	-79.46	-10.79	-47.46	-42.79	-97.61	-35.42	-175.82	53.22	-229.04	-110.00	-119.04
2525	-64.29	-10.79	-47.15	-27.92	-93.62	-20.00	-141.55	53.22	-194.77	-110.00	-84.77
2537.5	-46.67	-10.79	-47.26	-10.20	-81.24	-7.49	-98.94	53.22	-152.16	-110.00	-42.16
2550	-46.17	-10.79	-47.31	-9.65	-90.28	-24.28	-124.20	53.22	-177.43	-110.00	-67.43
2562.5	-67.12	-10.79	-47.32	-30.60	-93.04	-27.85	-151.49	53.22	-204.71	-110.00	-94.71
2575	-87.21	-10.79	-47.07	-50.93	-98.64	-23.62	-173.19	53.22	-226.41	-110.00	-116.41
2587.5	-92.02	-10.79	-46.90	-55.92	-82.20	-21.64	-159.75	53.22	-212.98	-110.00	-102.98
2600	-90.09	-10.79	-46.90	-53.98	-83.75	-25.77	-163.51	53.22	-216.73	-110.00	-106.73
2612.5	-85.59	-10.79	-47.05	-49.33	-84.19	-30.82	-164.34	53.22	-217.56	-110.00	-107.56
2625	-85.40	-10.79	-47.02	-49.17	-95.29	-30.38	-174.84	53.22	-228.06	-110.00	-118.06
2637.5	-87.90	-10.79	-46.80	-51.89	-85.60	-30.74	-168.22	53.22	-221.44	-110.00	-111.44
2650	-91.41	-10.79	-46.64	-55.56	-85.60	-29.59	-170.75	53.22	-223.98	-110.00	-113.98
2662.5	-89.79	-10.79	-46.70	-53.89	-84.73	-24.87	-163.48	53.22	-216.70	-110.00	-106.70
2675	-89.20	-10.79	-44.30	-55.69	-88.39	-15.51	-159.59	53.22	-212.81	-110.00	-102.81
2687.5	-88.56	-10.79	-46.62	-52.72	-84.08	-35.40	-172.21	53.22	-225.43	-110.00	-115.43
2700	-90.07	-10.79	-46.45	-54.41	-86.09	-5.19	-145.70	53.22	-198.92	-110.00	-88.92
2712.5	-90.61	-10.79	-46.53	-54.87	-81.69	-11.93	-148.48	53.22	-201.71	-110.00	-91.71
2725	-91.46	-10.79	-46.58	-55.67	-85.52	-14.10	-155.29	53.22	-208.51	-110.00	-98.51
2737.5	-91.22	-10.79	-46.57	-55.44	-88.00	-21.37	-164.81	53.22	-218.04	-110.00	-108.04
2750	-92.19	-10.79	-46.28	-56.71	-81.51	-21.62	-159.83	53.22	-213.05	-110.00	-103.05
2762.5	-92.19	-10.79	-46.21	-56.77	-85.61	-18.23	-160.60	53.22	-213.82	-110.00	-103.82
2775	-92.26	-10.79	-46.59	-56.46	-80.29	-13.37	-150.11	53.22	-203.33	-110.00	-93.33
2787.5	-89.00	-10.79	-46.42	-53.37	-91.97	-14.24	-159.58	53.22	-212.81	-110.00	-102.81
2800	-89.93	-10.79	-46.41	-54.30	-84.68	-0.63	-139.62	53.22	-192.84	-110.00	-82.84
2812.5	-90.83	-10.79	-45.89	-55.73	-57.56	-2.65	-115.94	53.22	-169.16	-110.00	-59.16
2825	-90.76	-10.79	-46.12	-55.43	-61.26	-11.05	-127.75	53.22	-180.97	-110.00	-70.97
2837.5	-91.60	-10.79	-46.43	-55.95	-72.74	-17.08	-145.77	53.22	-198.99	-110.00	-88.99
2850	-91.60	-10.79	-45.88	-56.52	-75.16	-23.25	-154.92	53.22	-208.14	-110.00	-98.14
2862.5	-91.16	-10.79	-45.91	-56.03	-75.33	-31.70	-163.06	53.22	-216.29	-110.00	-106.29
2875	-91.60	-10.79	-46.02	-56.36	-73.32	-14.43	-144.12	53.22	-197.34	-110.00	-87.34
2887.5	-92.89	-10.79	-46.08	-57.60	-70.46	-7.42	-135.48	53.22	-188.70	-110.00	-78.70
2900	-92.36	-10.79	-45.99	-57.16	-70.96	-42.97	-171.08	53.22	-224.30	-110.00	-114.30
2912.5	-90.59	-10.79	-45.62	-55.75	-68.62	-37.65	-162.03	53.22	-215.25	-110.00	-105.25
2925	-89.56	-10.79	-45.51	-54.83	-64.41	-21.43	-140.67	53.22	-193.89	-110.00	-83.89

2937.5	-93.28	-10.79	-45.78	-58.29	-60.81	-10.15	-129.25	53.22	-182.47	-110.00	-72.47
2950	-91.80	-10.79	-45.91	-56.67	-55.82	-17.62	-130.12	53.22	-183.34	-110.00	-73.34
2962.5	-91.27	-10.79	-45.66	-56.40	-48.52	-16.34	-121.26	53.22	-174.48	-110.00	-64.48
2975	-89.82	-10.79	-45.46	-55.15	-28.90	-3.13	-87.18	53.22	-140.40	-110.00	-30.40
2987.5	-89.22	-10.79	-45.61	-54.40	-39.35	-22.84	-116.58	53.22	-169.81	-110.00	-59.81
3000	-88.28	-10.79	-45.71	-53.36	-43.19	-15.38	-111.92	53.22	-165.14	-110.00	-55.14
3012.5	-87.78	-10.79	-45.63	-52.95	-41.21	-25.59	-119.75	53.22	-172.98	-110.00	-62.98
3025	-79.47	-10.79	-45.47	-44.78	-25.57	-23.24	-93.59	53.22	-146.81	-110.00	-36.81
3037.5	-60.62	-10.79	-45.50	-25.91	-43.42	-38.19	-107.52	53.22	-160.75	-110.00	-50.75
3050	-53.35	-10.79	-45.44	-18.69	-49.17	-42.40	-110.27	53.22	-163.49	-110.00	-53.49
3062.5	-56.84	-10.79	-45.62	-22.01	-53.80	-37.75	-113.56	53.22	-166.78	-110.00	-56.78
3075	-78.08	-10.79	-45.50	-43.37	-56.23	-23.33	-122.93	53.22	-176.15	-110.00	-66.15
3087.5	-91.37	-10.79	-45.44	-56.73	-56.61	-28.94	-142.27	53.22	-195.50	-110.00	-85.50
3100	-89.66	-10.79	-45.39	-55.07	-58.18	-27.13	-140.38	53.22	-193.60	-110.00	-83.60
3112.5	-90.08	-10.79	-45.51	-55.35	-60.25	-25.97	-141.57	53.22	-194.80	-110.00	-84.80
3125	-91.93	-10.79	-45.62	-57.10	-60.07	-43.51	-160.69	53.22	-213.91	-110.00	-103.91
3137.5	-89.17	-10.79	-45.30	-54.66	-59.33	-36.45	-150.44	53.22	-203.66	-110.00	-93.66
3150	-91.13	-10.79	-45.01	-56.91	-59.41	-36.41	-152.73	53.22	-205.95	-110.00	-95.95
3162.5	-89.50	-10.79	-45.77	-54.53	-60.06	-50.56	-165.15	53.22	-218.37	-110.00	-108.37
3175	-90.59	-10.79	-45.87	-55.51	-59.53	-52.87	-167.91	53.22	-221.13	-110.00	-111.13
3187.5	-90.74	-10.79	-45.72	-55.81	-58.21	-26.43	-140.45	53.22	-193.67	-110.00	-83.67
3200	-90.27	-10.79	-44.96	-56.10	-57.71	-47.52	-161.32	53.22	-214.55	-110.00	-104.55
3212.5	-91.41	-10.79	-45.32	-56.88	-57.34	-44.21	-158.42	53.22	-211.65	-110.00	-101.65
3225	-88.82	-10.79	-46.00	-53.61	-56.64	-16.54	-126.79	53.22	-180.01	-110.00	-70.01
3237.5	-90.81	-10.79	-45.61	-55.99	-55.42	-32.66	-144.07	53.22	-197.29	-110.00	-87.29
3250	-92.10	-10.79	-45.13	-57.76	-54.07	-25.98	-137.81	53.22	-191.03	-110.00	-81.03
3262.5	-91.40	-10.79	-45.13	-57.06	-53.08	-64.02	-174.16	53.22	-227.39	-110.00	-117.39
3275	-91.00	-10.79	-45.72	-56.07	-51.02	-49.28	-156.37	53.22	-209.59	-110.00	-99.59
3287.5	-91.70	-10.79	-45.10	-57.39	-48.89	-44.95	-151.22	53.22	-204.45	-110.00	-94.45
3300	-91.60	-10.79	-45.23	-57.16	-47.38	-41.25	-145.79	53.22	-199.01	-110.00	-89.01
3312.5	-90.98	-10.79	-45.05	-56.72	-43.73	-38.28	-138.73	53.22	-191.95	-110.00	-81.95
3325	-91.03	-10.79	-45.45	-56.37	-39.20	-41.47	-137.04	53.22	-190.26	-110.00	-80.26
3337.5	-90.86	-10.79	-45.40	-56.25	-35.63	-48.41	-140.29	53.22	-193.51	-110.00	-83.51
3350	-91.56	-10.79	-45.13	-57.22	-28.83	-22.69	-108.74	53.22	-161.96	-110.00	-51.96
3362.5	-88.95	-10.79	-45.25	-54.49	-16.31	-26.74	-97.54	53.22	-150.76	-110.00	-40.76
3375	-90.88	-10.79	-45.50	-56.17	-6.27	-28.56	-91.00	53.22	-144.22	-110.00	-34.22
3387.5	-91.64	-10.79	-45.39	-57.04	-5.12	-26.16	-88.31	53.22	-141.53	-110.00	-31.53
3400	-91.75	-10.79	-45.37	-57.17	-16.62	-22.24	-96.03	53.22	-149.25	-110.00	-39.25
3412.5	-91.25	-10.79	-45.54	-56.50	-24.18	-20.81	-101.50	53.22	-154.72	-110.00	-44.72
3425	-90.50	-10.79	-45.37	-55.92	-28.64	-39.10	-123.66	53.22	-176.89	-110.00	-66.89

3437.5	-91.10	-10.79	-45.33	-56.56	-31.20	-23.14	-110.91	53.22	-164.13	-110.00	-54.13
3450	-92.00	-10.79	-45.53	-57.26	-31.11	-16.44	-104.81	53.22	-158.04	-110.00	-48.04
3462.5	-91.93	-10.79	-45.60	-57.11	-29.50	-27.81	-114.43	53.22	-167.65	-110.00	-57.65
3475	-91.26	-10.79	-45.31	-56.74	-22.04	-33.69	-112.47	53.22	-165.69	-110.00	-55.69
3487.5	-90.22	-10.79	-45.24	-55.77	-22.57	-28.17	-106.50	53.22	-159.72	-110.00	-49.72
3500	-91.54	-10.79	-45.44	-56.89	-35.40	-54.29	-146.58	53.22	-199.81	-110.00	-89.81
3512.5	-90.83	-10.79	-45.77	-55.84	-41.46	-30.45	-127.75	53.22	-180.97	-110.00	-70.97
3525	-91.00	-10.79	-45.41	-56.38	-44.71	-31.38	-132.47	53.22	-185.69	-110.00	-75.69
3537.5	-91.66	-10.79	-45.27	-57.18	-48.67	-37.62	-143.46	53.22	-196.69	-110.00	-86.69
3550	-78.29	-10.79	-45.43	-43.65	-52.44	-38.09	-134.18	53.22	-187.41	-110.00	-77.41
3562.5	-71.71	-10.79	-45.73	-36.77	-54.76	-30.14	-121.67	53.22	-174.89	-110.00	-64.89
3575	-74.64	-10.79	-45.69	-39.74	-55.99	-35.60	-131.33	53.22	-184.55	-110.00	-74.55
3587.5	-86.63	-10.79	-45.46	-51.96	-58.35	-21.17	-131.48	53.22	-184.70	-110.00	-74.70
3600	-91.14	-10.79	-45.60	-56.33	-61.07	-25.25	-142.65	53.22	-195.87	-110.00	-85.87
3612.5	-90.35	-10.79	-45.77	-55.37	-61.70	-37.62	-154.70	53.22	-207.92	-110.00	-97.92
3625	-91.41	-10.79	-45.99	-56.21	-61.95	-44.91	-163.07	53.22	-216.29	-110.00	-106.29
3637.5	-90.82	-10.79	-45.58	-56.03	-63.24	-14.47	-133.74	53.22	-186.96	-110.00	-76.96
3650	-91.71	-10.79	-45.67	-56.83	-64.27	-14.14	-135.24	53.22	-188.46	-110.00	-78.46
3662.5	-91.76	-10.79	-46.14	-56.41	-66.13	-36.99	-159.53	53.22	-212.75	-110.00	-102.75
3675	-90.80	-10.79	-46.24	-55.35	-66.67	-19.93	-141.95	53.22	-195.17	-110.00	-85.17
3687.5	-92.60	-10.79	-46.04	-57.35	-66.15	-6.12	-129.62	53.22	-182.84	-110.00	-72.84
3700	-92.43	-10.79	-45.77	-57.45	-66.23	-31.93	-155.61	53.22	-208.83	-110.00	-98.83
3712.5	-92.27	-10.79	-46.09	-56.97	-67.05	-36.41	-160.42	53.22	-213.65	-110.00	-103.65
3725	-92.31	-10.79	-46.32	-56.79	-66.24	-7.04	-130.07	53.22	-183.30	-110.00	-73.30
3737.5	-92.02	-10.79	-46.49	-56.32	-68.29	-22.49	-147.10	53.22	-200.32	-110.00	-90.32
3750	-92.38	-10.79	-46.00	-57.16	-66.64	-32.03	-155.84	53.22	-209.06	-110.00	-99.06
3762.5	-92.32	-10.79	-46.08	-57.03	-67.75	-19.41	-144.18	53.22	-197.40	-110.00	-87.40
3775	-92.43	-10.79	-46.59	-56.63	-67.95	-14.08	-138.66	53.22	-191.88	-110.00	-81.88
3787.5	-92.01	-10.79	-46.49	-56.31	-69.13	-1.77	-127.21	53.22	-180.43	-110.00	-70.43
3800	-91.52	-10.79	-46.41	-55.90	-69.43	-7.98	-133.31	53.22	-186.53	-110.00	-76.53
3812.5	-91.80	-10.79	-46.36	-56.23	-70.91	-10.51	-137.65	53.22	-190.87	-110.00	-80.87
3825	-91.99	-10.79	-46.44	-56.34	-72.10	-39.21	-167.65	53.22	-220.87	-110.00	-110.87
3837.5	-92.17	-10.79	-46.70	-56.26	-72.56	-29.87	-158.69	53.22	-211.91	-110.00	-101.91
3850	-91.32	-10.79	-47.01	-55.10	-70.99	-8.42	-134.51	53.22	-187.74	-110.00	-77.74
3862.5	-91.27	-10.79	-46.90	-55.16	-73.16	-18.43	-146.75	53.22	-199.97	-110.00	-89.97
3875	-90.50	-10.79	-46.54	-54.74	-73.23	-5.39	-133.36	53.22	-186.59	-110.00	-76.59
3887.5	-90.48	-10.79	-46.77	-54.50	-72.34	-5.53	-132.36	53.22	-185.58	-110.00	-75.58
3900	-89.59	-10.79	-47.27	-53.10	-70.66	-12.21	-135.97	53.22	-189.20	-110.00	-79.20
3912.5	-90.08	-10.79	-46.79	-54.09	-71.09	-28.59	-153.77	53.22	-206.99	-110.00	-96.99
3925	-89.62	-10.79	-46.83	-53.57	-73.86	-14.03	-141.46	53.22	-194.68	-110.00	-84.68

3937.5	-90.50	-10.79	-46.80	-54.49	-73.50	-25.11	-153.10	53.22	-206.32	-110.00	-96.32
3950	-90.56	-10.79	-47.67	-53.67	-72.38	-20.68	-146.74	53.22	-199.96	-110.00	-89.96
3962.5	-90.71	-10.79	-47.39	-54.11	-73.14	-34.18	-161.43	53.22	-214.65	-110.00	-104.65
3975	-91.47	-10.79	-47.08	-55.18	-74.07	-9.83	-139.09	53.22	-192.31	-110.00	-82.31
3987.5	-91.32	-10.79	-47.18	-54.92	-74.14	-23.72	-152.78	53.22	-206.00	-110.00	-96.00
4000	-92.07	-10.79	-47.94	-54.92	-70.75	-43.92	-169.59	53.22	-222.81	-110.00	-112.81
4012.5	-90.97	-10.79	-47.90	-53.85	-70.24	-9.44	-133.54	53.22	-186.76	-110.00	-76.76
4025	-92.21	-10.79	-47.47	-55.52	-69.41	-34.93	-159.86	53.22	-213.08	-110.00	-103.08
4037.5	-91.88	-10.79	-47.87	-54.80	-68.86	-24.39	-148.06	53.22	-201.28	-110.00	-91.28
4050	-92.80	-10.79	-47.98	-55.61	-67.49	-27.74	-150.84	53.22	-204.06	-110.00	-94.06
4062.5	-92.54	-10.79	-48.18	-55.16	-66.41	-23.99	-145.55	53.22	-198.78	-110.00	-88.78
4075	-83.35	-10.79	-48.23	-45.91	-65.18	-10.76	-121.85	53.22	-175.08	-110.00	-65.08
4087.5	-92.03	-10.79	-48.07	-54.75	-63.23	-9.44	-127.41	53.22	-180.64	-110.00	-70.64
4100	-93.35	-10.79	-48.43	-55.70	-63.01	-16.23	-134.94	53.22	-188.16	-110.00	-78.16
4112.5	-93.62	-10.79	-48.54	-55.87	-61.07	-1.19	-118.12	53.22	-171.34	-110.00	-61.34
4125	-92.87	-10.79	-48.76	-54.90	-57.54	-9.00	-121.44	53.22	-174.66	-110.00	-64.66
4137.5	-93.87	-10.79	-48.72	-55.94	-55.28	-3.35	-114.57	53.22	-167.79	-110.00	-57.79
4150	-93.57	-10.79	-48.65	-55.71	-51.67	-30.33	-137.71	53.22	-190.93	-110.00	-80.93
4162.5	-93.66	-10.79	-49.36	-55.09	-45.36	-37.81	-138.26	53.22	-191.48	-110.00	-81.48
4175	-93.29	-10.79	-49.52	-54.56	-22.19	-9.50	-86.25	53.22	-139.47	-110.00	-29.47
4187.5	-93.96	-10.79	-49.24	-55.50	-46.46	-1.91	-103.88	53.22	-157.10	-110.00	-47.10
4200	-93.16	-10.79	-48.96	-54.99	-64.45	-12.15	-131.58	53.22	-184.80	-110.00	-74.80
4212.5	-93.20	-10.79	-49.33	-54.66	-36.79	-18.35	-109.79	53.22	-163.02	-110.00	-53.02
4225	-92.56	-10.79	-49.83	-53.52	-45.11	-23.09	-121.73	53.22	-174.95	-110.00	-64.95
4237.5	-93.78	-10.79	-49.76	-54.81	-47.33	-25.86	-128.01	53.22	-181.23	-110.00	-71.23
4250	-91.89	-10.79	-49.75	-52.93	-48.75	-28.68	-130.37	53.22	-183.59	-110.00	-73.59
4262.5	-90.69	-10.79	-49.71	-51.77	-49.86	-20.37	-121.99	53.22	-175.22	-110.00	-65.22
4275	-92.29	-10.79	-49.86	-53.22	-47.86	-7.02	-108.10	53.22	-161.32	-110.00	-51.32
4287.5	-91.59	-10.79	-50.46	-51.92	-45.96	-12.37	-110.26	53.22	-163.48	-110.00	-53.48
4300	-90.95	-10.79	-50.05	-51.69	-45.77	-10.67	-108.13	53.22	-161.36	-110.00	-51.36
4312.5	-90.76	-10.79	-50.06	-51.49	-44.01	-17.46	-112.95	53.22	-166.18	-110.00	-56.18
4325	-92.18	-10.79	-50.37	-52.59	-40.69	-8.51	-101.80	53.22	-155.02	-110.00	-45.02
4337.5	-89.52	-10.79	-50.81	-49.50	-37.54	-3.12	-90.16	53.22	-143.38	-110.00	-33.38
4350	-90.18	-10.79	-50.57	-50.40	-35.44	-20.18	-106.03	53.22	-159.25	-110.00	-49.25
4362.5	-92.01	-10.79	-50.48	-52.33	-31.78	-4.16	-88.27	53.22	-141.49	-110.00	-31.49
4375	-92.64	-10.79	-50.53	-52.90	-26.63	-8.22	-87.76	53.22	-140.98	-110.00	-30.98
4387.5	-91.19	-10.79	-51.03	-50.96	-22.34	-4.15	-77.45	53.22	-130.67	-110.00	-20.67
4400	-92.51	-10.79	-51.06	-52.23	-16.71	-7.68	-76.62	53.22	-129.84	-110.00	-19.84
4412.5	-92.24	-10.79	-50.79	-52.24	-11.52	-12.68	-76.43	53.22	-129.66	-110.00	-19.66
4425	-92.39	-10.79	-50.95	-52.23	-6.21	-20.44	-78.88	53.22	-132.10	-110.00	-22.10

4437.5	-91.99	-10.79	-51.09	-51.69	-9.63	-8.31	-69.63	53.22	-122.85	-110.00	-12.85
4450	-93.05	-10.79	-52.00	-51.85	-10.52	-4.02	-66.39	53.22	-119.61	-110.00	-9.61
4462.5	-93.44	-10.79	-51.55	-52.68	-12.36	-5.87	-70.92	53.22	-124.14	-110.00	-14.14
4475	-92.45	-10.79	-51.57	-51.66	-10.71	-6.59	-68.97	53.22	-122.19	-110.00	-12.19
4487.5	-93.21	-10.79	-52.68	-51.32	-5.26	-27.13	-83.71	53.22	-136.93	-110.00	-26.93
4500	-93.70	-10.79	-53.00	-51.49	-30.77	-4.36	-86.62	53.22	-139.85	-110.00	-29.85
4512.5	-93.84	-10.79	-53.67	-50.97	-17.33	-4.79	-73.09	53.22	-126.31	-110.00	-16.31
4525	-93.29	-10.79	-53.36	-50.72	-30.50	-2.95	-84.17	53.22	-137.40	-110.00	-27.40
4537.5	-93.07	-10.79	-54.36	-49.51	-36.79	-9.87	-96.16	53.22	-149.38	-110.00	-39.38
4550	-93.40	-10.79	-54.83	-49.36	-40.01	-6.58	-95.95	53.22	-149.17	-110.00	-39.17
4562.5	-92.91	-10.79	-55.13	-48.56	-43.07	-26.42	-118.05	53.22	-171.27	-110.00	-61.27
4575	-92.14	-10.79	-54.76	-48.17	-46.70	-18.68	-113.55	53.22	-166.77	-110.00	-56.77
4587.5	-93.40	-10.79	-54.56	-49.63	-49.83	-18.19	-117.66	53.22	-170.88	-110.00	-60.88
4600	-92.76	-10.79	-55.81	-47.74	-52.29	-10.43	-110.46	53.22	-163.68	-110.00	-53.68
4612.5	-93.40	-10.79	-55.71	-48.48	-51.43	-5.51	-105.41	53.22	-158.63	-110.00	-48.63
4625	-92.59	-10.79	-55.82	-47.56	-54.48	-3.50	-105.55	53.22	-158.77	-110.00	-48.77
4637.5	-92.29	-10.79	-55.51	-47.58	-56.11	-5.93	-109.61	53.22	-162.84	-110.00	-52.84
4650	-92.23	-10.79	-55.71	-47.31	-56.73	-14.19	-118.23	53.22	-171.46	-110.00	-61.46
4662.5	-92.55	-10.79	-56.28	-47.06	-58.02	-17.02	-122.10	53.22	-175.33	-110.00	-65.33
4675	-91.62	-10.79	-56.39	-46.02	-58.81	-12.20	-117.03	53.22	-170.25	-110.00	-60.25
4687.5	-91.31	-10.79	-56.37	-45.74	-61.03	-30.84	-137.60	53.22	-190.82	-110.00	-80.82
4700	-91.26	-10.79	-56.38	-45.66	-61.57	-36.14	-143.37	53.22	-196.60	-110.00	-86.60
4712.5	-90.41	-10.79	-56.76	-44.44	-62.85	-35.86	-143.15	53.22	-196.37	-110.00	-86.37
4725	-91.70	-10.79	-57.15	-45.34	-72.77	-32.78	-150.89	53.22	-204.11	-110.00	-94.11
4737.5	-89.58	-10.79	-57.25	-43.12	-64.28	-35.42	-142.82	53.22	-196.05	-110.00	-86.05
4750	-91.03	-10.79	-57.77	-44.05	-62.67	-32.77	-139.48	53.22	-192.71	-110.00	-82.71
4762.5	-91.08	-10.79	-60.84	-41.03	-64.32	-33.23	-138.59	53.22	-191.81	-110.00	-81.81
4775	-91.68	-10.79	-61.08	-41.39	-64.34	-21.13	-126.87	53.22	-180.09	-110.00	-70.09
4787.5	-90.91	-10.79	-60.36	-41.33	-64.66	-32.43	-138.43	53.22	-191.65	-110.00	-81.65
4800	-90.33	-10.79	-59.73	-41.39	-66.18	-42.99	-150.56	53.22	-203.78	-110.00	-93.78
4812.5	-92.19	-10.79	-59.54	-43.45	-65.93	-29.45	-138.82	53.22	-192.04	-110.00	-82.04
4825	-90.87	-10.79	-60.34	-41.32	-65.57	-32.35	-139.24	53.22	-192.46	-110.00	-82.46
4837.5	-91.78	-10.79	-59.97	-42.60	-66.10	-39.54	-148.24	53.22	-201.46	-110.00	-91.46
4850	-91.82	-10.79	-58.87	-43.74	-67.86	-17.01	-128.60	53.22	-181.83	-110.00	-71.83
4862.5	-91.83	-10.79	-59.05	-43.57	-67.03	-10.11	-120.71	53.22	-173.93	-110.00	-63.93
4875	-92.59	-10.79	-58.95	-44.43	-65.36	-13.93	-123.71	53.22	-176.93	-110.00	-66.93
4887.5	-92.77	-10.79	-59.14	-44.42	-65.80	-11.32	-121.55	53.22	-174.77	-110.00	-64.77
4900	-93.01	-10.79	-58.24	-45.55	-65.96	-3.73	-115.25	53.22	-168.47	-110.00	-58.47
4912.5	-92.85	-10.79	-57.81	-45.83	-64.02	-11.60	-121.46	53.22	-174.68	-110.00	-64.68
4925	-93.15	-10.79	-58.44	-45.50	-62.44	-11.48	-119.43	53.22	-172.65	-110.00	-62.65

4937.5	-93.40	-10.79	-58.08	-46.11	-62.17	-11.75	-120.03	53.22	-173.25	-110.00	-63.25
4950	-93.29	-10.79	-58.04	-46.05	-61.58	-11.89	-119.51	53.22	-172.74	-110.00	-62.74
4962.5	-92.47	-10.79	-57.08	-46.18	-59.94	-13.94	-120.07	53.22	-173.29	-110.00	-63.29
4975	-93.19	-10.79	-56.95	-47.03	-57.26	-14.09	-118.37	53.22	-171.60	-110.00	-61.60
4987.5	-93.06	-10.79	-57.05	-46.79	-54.80	-6.77	-108.37	53.22	-161.59	-110.00	-51.59
5000	-93.51	-10.79	-56.91	-47.39	-51.90	-12.63	-111.93	53.22	-165.15	-110.00	-55.15
5012.5	-93.02	-10.79	-56.82	-47.00	-47.44	-14.67	-109.11	53.22	-162.33	-110.00	-52.33
5025	-92.37	-10.79	-56.12	-47.03	-39.57	-17.59	-104.19	53.22	-157.42	-110.00	-47.42
5037.5	-92.68	-10.79	-55.95	-47.52	-20.68	-25.75	-93.95	53.22	-147.17	-110.00	-37.17
5050	-92.67	-10.79	-56.14	-47.32	-20.57	-18.45	-86.34	53.22	-139.57	-110.00	-29.57
5062.5	-92.41	-10.79	-56.10	-47.10	-40.68	-5.91	-93.69	53.22	-146.91	-110.00	-36.91
5075	-91.61	-10.79	-55.50	-46.90	-49.35	-20.83	-117.07	53.22	-170.30	-110.00	-60.30
5087.5	-91.86	-10.79	-54.95	-47.70	-56.39	-19.09	-123.18	53.22	-176.40	-110.00	-66.40
5100	-90.87	-10.79	-55.42	-46.24	-61.10	-22.83	-130.17	53.22	-183.40	-110.00	-73.40
5112.5	-90.63	-10.79	-55.43	-45.99	-65.74	-18.06	-129.79	53.22	-183.01	-110.00	-73.01
5125	-92.08	-10.79	-55.30	-47.57	-68.57	-36.17	-152.31	53.22	-205.53	-110.00	-95.53
5137.5	-90.23	-10.79	-54.59	-46.43	-72.17	-26.95	-145.54	53.22	-198.77	-110.00	-88.77
5150	-90.97	-10.79	-54.72	-47.04	-75.17	-9.29	-131.50	53.22	-184.73	-110.00	-74.73
5162.5	-91.27	-10.79	-55.40	-46.67	-78.87	-47.08	-172.62	53.22	-225.84	-110.00	-115.84
5175	-92.17	-10.79	-55.25	-47.70	-79.26	-39.70	-166.66	53.22	-219.88	-110.00	-109.88
5187.5	-91.24	-10.79	-54.77	-47.25	-79.76	-7.88	-134.90	53.22	-188.12	-110.00	-78.12
5200	-91.63	-10.79	-54.72	-47.70	-82.56	-52.02	-182.28	53.22	-235.50	-110.00	-125.50
5212.5	-92.51	-10.79	-55.12	-48.18	-86.38	-17.93	-152.49	53.22	-205.71	-110.00	-95.71
5225	-91.58	-10.79	-55.92	-46.45	-85.62	-16.39	-148.46	53.22	-201.68	-110.00	-91.68
5237.5	-92.35	-10.79	-55.88	-47.27	-99.83	-11.00	-158.10	53.22	-211.32	-110.00	-101.32
5250	-92.26	-10.79	-55.79	-47.27	-93.66	-27.06	-167.99	53.22	-221.21	-110.00	-111.21
5262.5	-93.48	-10.79	-56.85	-47.42	-82.21	-3.70	-133.32	53.22	-186.55	-110.00	-76.55
5275	-93.53	-10.79	-57.76	-46.56	-81.21	-10.22	-137.99	53.22	-191.21	-110.00	-81.21
5287.5	-93.25	-10.79	-59.57	-44.47	-98.54	-38.37	-181.38	53.22	-234.60	-110.00	-124.60
5300	-93.65	-10.79	-60.61	-43.82	-81.79	-22.60	-148.21	53.22	-201.43	-110.00	-91.43
5312.5	-94.23	-10.79	-61.17	-43.84	-86.45	-15.06	-145.35	53.22	-198.58	-110.00	-88.58
5325	-93.83	-10.79	-63.87	-40.75	-83.52	-19.60	-143.87	53.22	-197.09	-110.00	-87.09
5337.5	-94.05	-10.79	-66.10	-38.74	-85.54	-18.29	-142.58	53.22	-195.80	-110.00	-85.80
5350	-93.85	-10.79	-69.77	-34.87	-91.91	-8.14	-134.93	53.22	-188.15	-110.00	-78.15
5362.5	-94.24	-10.79	-69.12	-35.91	-89.66	-37.57	-163.13	53.22	-216.35	-110.00	-106.35
5375	-94.01	-10.79	-68.09	-36.71	-79.45	-16.69	-132.85	53.22	-186.07	-110.00	-76.07
5387.5	-93.51	-10.79	-65.34	-38.97	-83.79	-5.57	-128.32	53.22	-181.54	-110.00	-71.54
5400	-94.17	-10.79	-62.49	-42.47	-88.29	-11.50	-142.27	53.22	-195.49	-110.00	-85.49
5412.5	-94.02	-10.79	-60.64	-44.17	-94.52	-14.09	-152.78	53.22	-206.00	-110.00	-96.00
5425	-93.30	-10.79	-59.89	-44.19	-90.71	-13.30	-148.21	53.22	-201.43	-110.00	-91.43

5437.5	-93.23	-10.79	-59.64	-44.38	-78.66	-6.21	-129.24	53.22	-182.47	-110.00	-72.47
5450	-92.48	-10.79	-59.49	-43.78	-85.69	-24.88	-154.36	53.22	-207.58	-110.00	-97.58
5462.5	-93.04	-10.79	-59.21	-44.62	-90.58	-8.59	-143.79	53.22	-197.01	-110.00	-87.01
5475	-92.70	-10.79	-58.92	-44.57	-83.75	-11.98	-140.31	53.22	-193.53	-110.00	-83.53
5487.5	-92.70	-10.79	-58.68	-44.81	-89.58	-29.54	-163.93	53.22	-217.15	-110.00	-107.15
5500	-92.47	-10.79	-59.01	-44.25	-86.68	-8.34	-139.27	53.22	-192.49	-110.00	-82.49
5512.5	-91.39	-10.79	-60.35	-41.83	-88.95	-7.33	-138.10	53.22	-191.33	-110.00	-81.33
5525	-90.29	-10.79	-60.41	-40.67	-86.56	-2.34	-129.58	53.22	-182.80	-110.00	-72.80
5537.5	-91.30	-10.79	-60.57	-41.52	-84.27	-11.16	-136.95	53.22	-190.17	-110.00	-80.17
5550	-91.29	-10.79	-61.42	-40.66	-102.61	-14.27	-157.54	53.22	-210.76	-110.00	-100.76
5562.5	-90.52	-10.79	-62.12	-39.18	-85.73	-7.19	-132.10	53.22	-185.32	-110.00	-75.32
5575	-91.11	-10.79	-63.45	-38.44	-90.23	-12.77	-141.44	53.22	-194.66	-110.00	-84.66
5587.5	-91.43	-10.79	-64.12	-38.10	-91.01	-12.31	-141.41	53.22	-194.64	-110.00	-84.64
5600	-91.03	-10.79	-66.37	-35.45	-82.80	-31.98	-150.23	53.22	-203.45	-110.00	-93.45
5612.5	-91.53	-10.79	-68.70	-33.62	-90.61	-11.13	-135.37	53.22	-188.59	-110.00	-78.59
5625	-92.04	-10.79	-69.74	-33.08	-83.19	-16.33	-132.61	53.22	-185.83	-110.00	-75.83
5637.5	-91.95	-10.79	-72.35	-30.39	-94.40	-18.70	-143.49	53.22	-196.72	-110.00	-86.72
5650	-93.11	-10.79	-74.07	-29.82	-89.40	-23.19	-142.41	53.22	-195.63	-110.00	-85.63
5662.5	-92.84	-10.79	-74.40	-29.24	-85.20	-4.38	-118.82	53.22	-172.05	-110.00	-62.05
5675	-92.98	-10.79	-71.34	-32.43	-98.16	-8.15	-138.75	53.22	-191.97	-110.00	-81.97
5687.5	-93.46	-10.79	-68.80	-35.45	-86.39	-28.02	-149.86	53.22	-203.08	-110.00	-93.08
5700	-93.05	-10.79	-65.35	-38.49	-89.60	-19.00	-147.09	53.22	-200.32	-110.00	-90.32
5712.5	-93.22	-10.79	-61.84	-42.17	-81.86	-16.40	-140.43	53.22	-193.66	-110.00	-83.66
5725	-93.34	-10.79	-60.61	-43.51	-84.14	-7.66	-135.31	53.22	-188.53	-110.00	-78.53
5737.5	-93.15	-10.79	-58.67	-45.28	-95.65	-6.84	-147.77	53.22	-201.00	-110.00	-91.00
5750	-93.62	-10.79	-57.48	-46.93	-90.36	-13.82	-151.11	53.22	-204.33	-110.00	-94.33
5762.5	-93.55	-10.79	-55.41	-48.93	-90.19	-3.21	-142.33	53.22	-195.55	-110.00	-85.55
5775	-94.11	-10.79	-54.69	-50.21	-83.53	-5.41	-139.15	53.22	-192.37	-110.00	-82.37
5787.5	-93.92	-10.79	-53.33	-51.37	-81.95	-15.74	-149.07	53.22	-202.29	-110.00	-92.29
5800	-93.70	-10.79	-52.12	-52.37	-83.43	-3.70	-139.51	53.22	-192.73	-110.00	-82.73
5812.5	-93.70	-10.79	-51.62	-52.88	-82.57	-12.49	-147.93	53.22	-201.15	-110.00	-91.15
5825	-93.25	-10.79	-51.03	-53.01	-84.59	-17.66	-155.26	53.22	-208.48	-110.00	-98.48
5837.5	-93.20	-10.79	-50.30	-53.69	-94.25	-8.43	-156.37	53.22	-209.59	-110.00	-99.59
5850	-93.17	-10.79	-51.04	-52.92	-88.98	-4.58	-146.48	53.22	-199.70	-110.00	-89.70
5862.5	-93.13	-10.79	-50.61	-53.32	-80.61	-2.99	-136.92	53.22	-190.14	-110.00	-80.14
5875	-92.44	-10.79	-50.90	-52.33	-77.80	-4.37	-134.49	53.22	-187.72	-110.00	-77.72
5887.5	-92.18	-10.79	-51.41	-51.56	-84.76	-36.33	-172.65	53.22	-225.87	-110.00	-115.87
5900	-92.21	-10.79	-52.53	-50.47	-82.80	-34.51	-167.78	53.22	-221.00	-110.00	-111.00
5912.5	-91.95	-10.79	-54.07	-48.67	-91.50	-10.70	-150.87	53.22	-204.09	-110.00	-94.09
5925	-90.79	-10.79	-54.15	-47.43	-84.61	-21.82	-153.85	53.22	-207.08	-110.00	-97.08

5937.5	-89.83	-10.79	-54.43	-46.19	-86.39	-26.71	-159.29	53.22	-212.51	-110.00	-102.51
5950	-90.81	-10.79	-56.51	-45.08	-91.27	-27.74	-164.09	53.22	-217.31	-110.00	-107.31
5962.5	-89.58	-10.79	-58.87	-41.51	-91.37	-12.19	-145.06	53.22	-198.28	-110.00	-88.28
5975	-90.34	-10.79	-59.10	-42.03	-89.25	-23.33	-154.62	53.22	-207.84	-110.00	-97.84
5987.5	-90.66	-10.79	-56.15	-45.30	-58.84	-22.99	-127.13	53.22	-180.36	-110.00	-70.36
6000	-91.27	-10.79	-64.78	-37.29	-67.41	-19.44	-124.14	53.22	-177.36	-110.00	-67.36