

## **Non-compliant Antenna Waiver Request**

Televisa requests authority to use its new AVL 2.0m antenna in the 5925 – 6425 MHz frequencies.

The AVL 2.0m antenna that is the subject of this application exceeds the antenna performance standards specified in Section 25.209(a), and thus Section 25.220 of the FCC's rules applies.

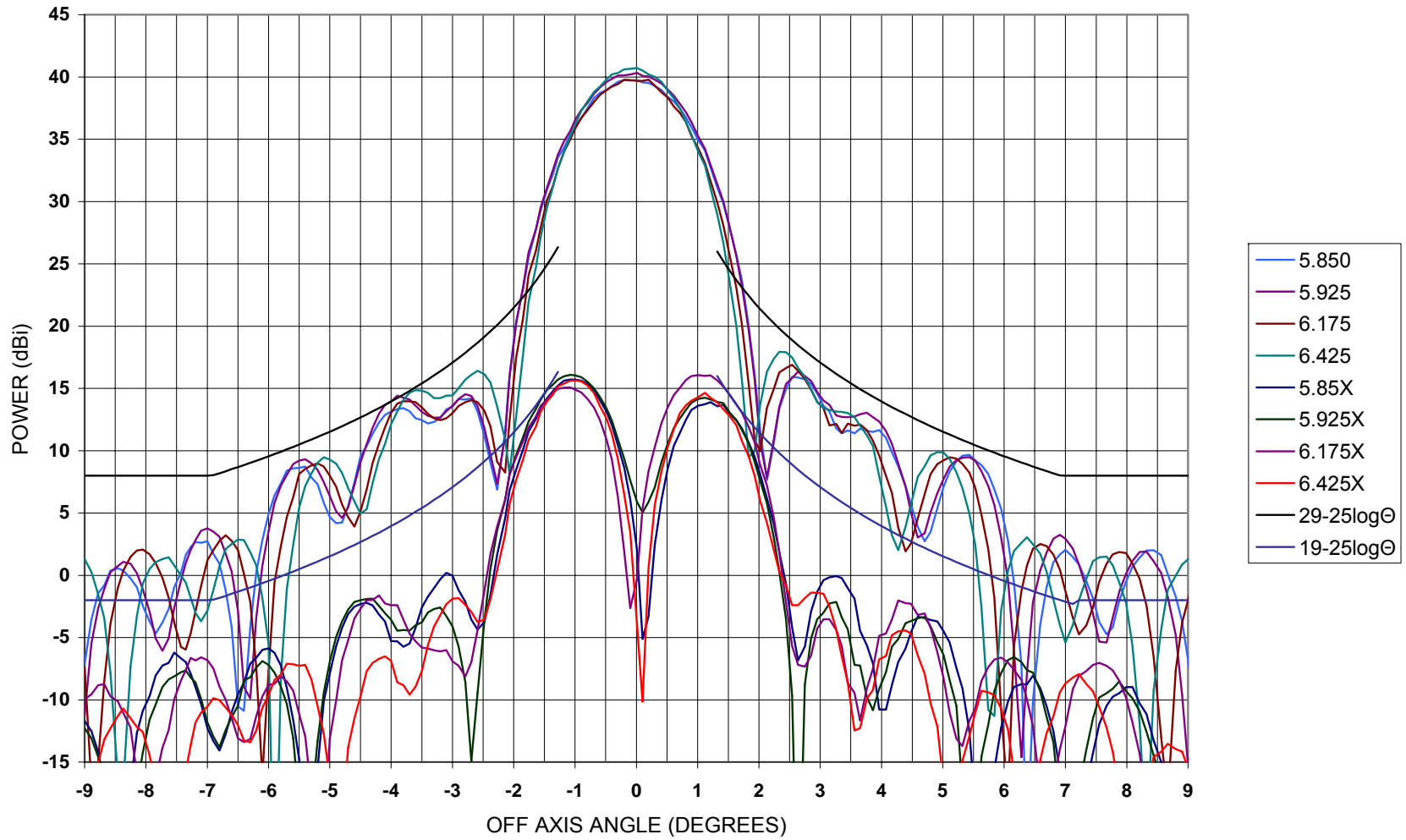
The antenna generally exhibits non-compliance for off-axis angles from 1.0 degrees to 2.0 degrees due to the width of its main lobe. Per the requirement of Section 25.220, the measured antenna performance data has been provided in this Exhibit.

A review of this data indicates that the antenna patterns exceed the antenna performance standard of Section 25.209(a) for off-axis angles from 1.0 degrees to 2.0 degrees by a maximum of 7 dB. Per Section 25.220(c)(1), the applicant must reduce the power and power density levels stated in Sections 25.134, 25.211 or 25.212 of the FCC's rules, whichever is applicable, by the number of decibels that the non-compliant antenna fails to meet the antenna performance standard of Sections 25.209(a) and (b).

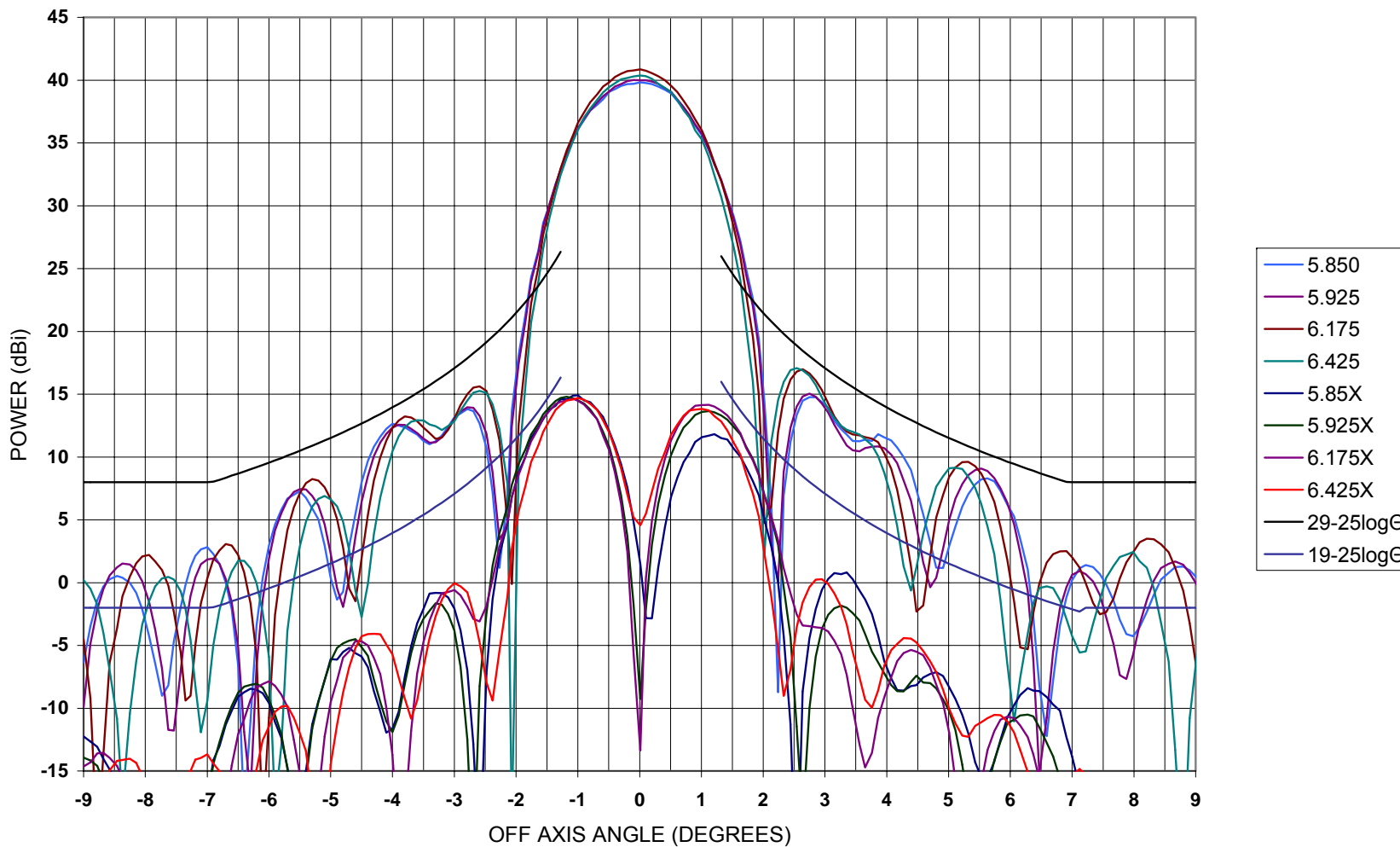
As per Section 25.212, the maximum antenna input power density routinely licensed by the FCC for transmission of digital carriers using a Section 25.209 compliant antenna in C-band is -2.7 dBW/4kHz. To comply with 25.220(c)(1), the maximum transmit power density for the 2.0m antenna should be -9.7 dBW/4kHz, which is a reduction of 7 dB. The Televisa application requests authority to transmit at a maximum power density of -20.6 dBW/4 kHz. Consequently, by transmitting at the reduced power density of -20.6 dBW/4 kHz, the 2.0m antenna complies with the FCC's two-degree spacing policy.

Accordingly, licensing of the proposed earth station will be consistent with the Commission's two-degree spacing policy.

### AvL 2.0M C-Band Antenna Vertical Polarization Transmit Azimuth Patterns

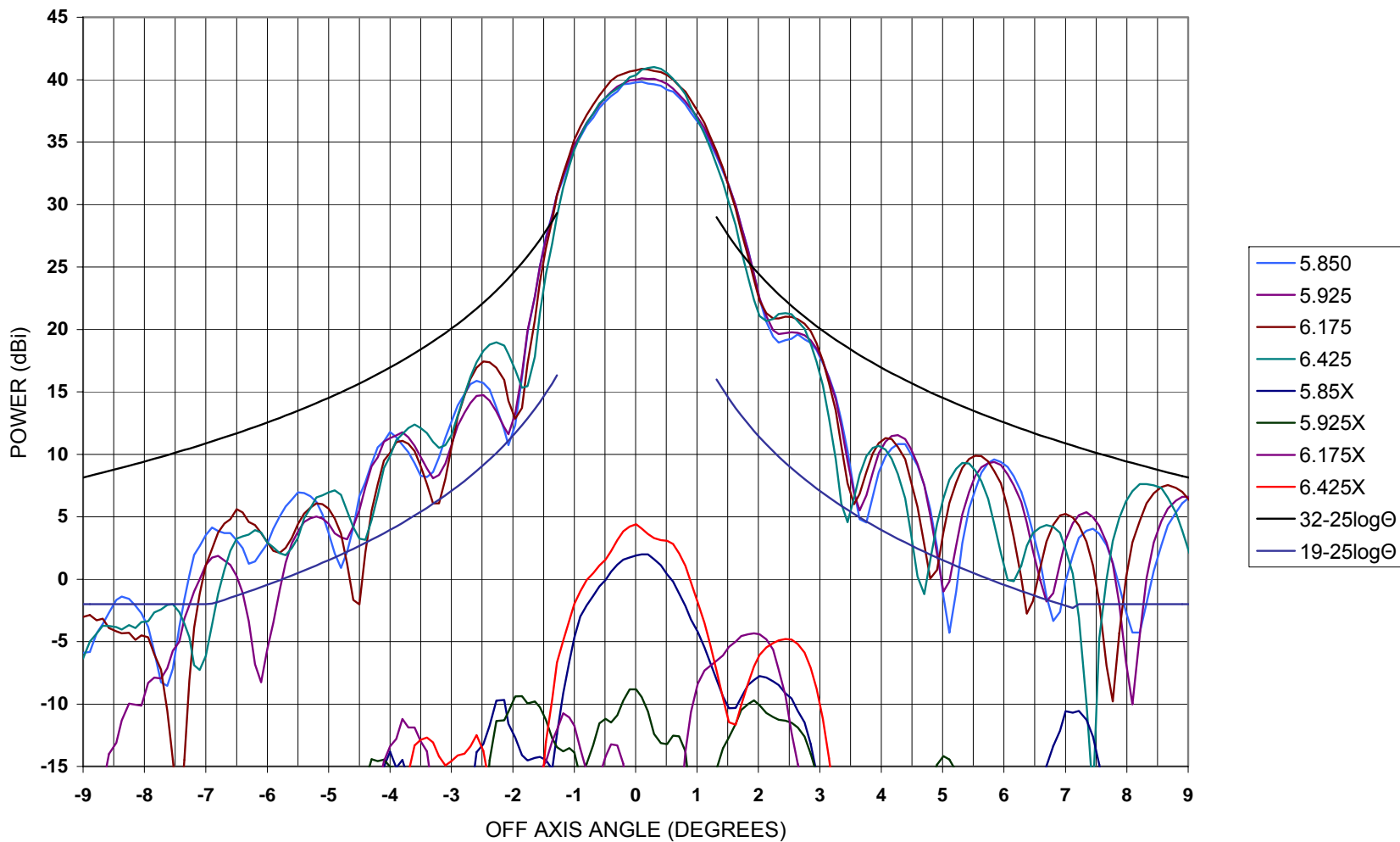


### AvL 2.0M C-Band Antenna Horizontal Polarization Transmit Azimuth Patterns

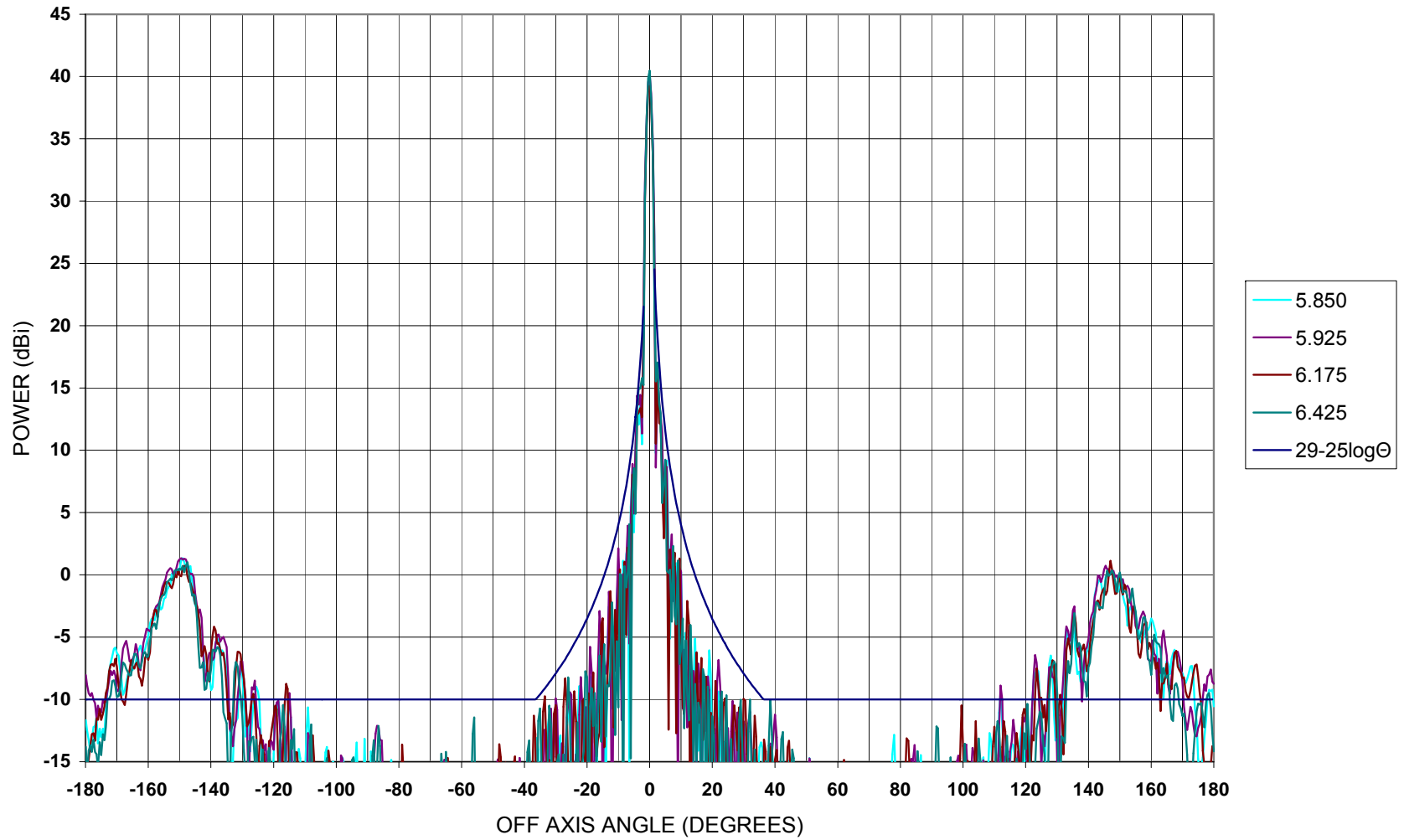




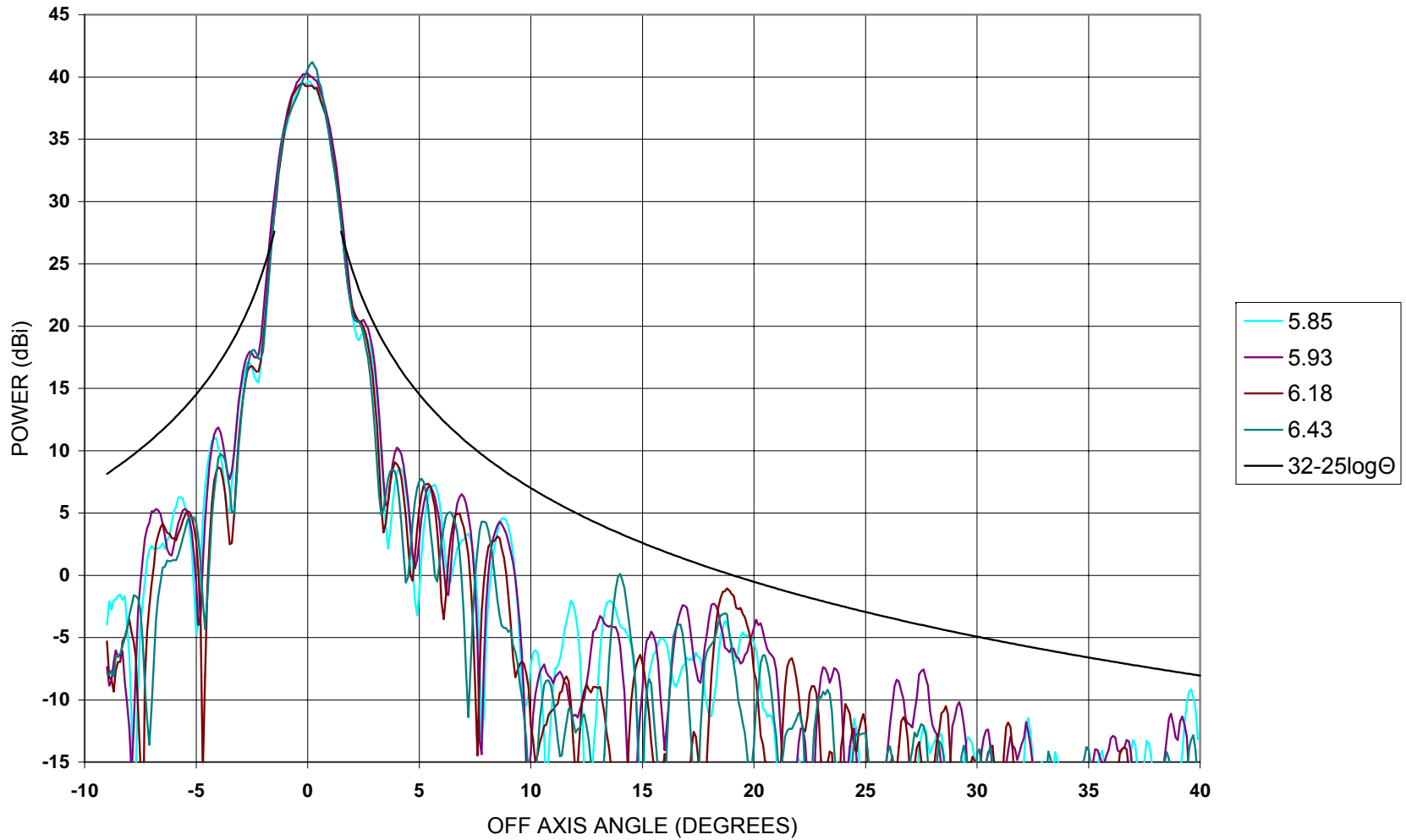
### AvL 2.0M C-Band Antenna Horizontal Polarization Transmit Elevation Patterns



### AvL 2.0M C-Band Antenna Vertical Polarization Transmit Azimuth Patterns



### AvL 2.0M C-Band Antenna Horizontal Polarization Transmit Elevation Patterns



## AvL 2.0m C-Band Antenna Power Spectral Density with -20.6dBW/4kHz applied to flange

Az	Power Spectral Density (dBW/4kHz) Vertical Polarization			Power Spectral Density (dBW/4kHz) Horizontal Polarization		
	5.85GHz	6.175GHz	6.425GHz	5.85GHz	6.175GHz	6.425GHz
-180	-32.27	-35.32	-34.4	-31.51	-33.74	-33.96
-175	-33.64	-32.25	-35.09	-36	-33.91	-39.64
-170	-26.87	-27.98	-30.41	-33.65	-31.35	-27.26
-165	-28.25	-27.93	-27.79	-28.3	-26.97	-26.94
-160	-25.49	-27.44	-27.16	-25.04	-25.74	-24.65
-155	-22.51	-21.5	-22.21	-22.7	-22.97	-22.83
-150	-20.2	-20.61	-20.11	-21.6	-21.66	-21.61
-145	-23.01	-22.92	-22.3	-24.01	-24.18	-24.72
-140	-29.87	-26.65	-28.15	-26.48	-25.74	-27.15
-135	-28.28	-29.75	-32.51	-30.11	-29.57	-33.02
-130	-28.68	-28.29	-31.95	-30.69	-32.15	-42.03
-125	-29.99	-36.84	-37.33	-33.79	-38.93	-32.97
-120	-34.96	-31.95	-35.82	-41.78	-39.69	-36.54
-115	-30.74	-38.15	-37.32	-41.56	-41.76	-34.09
-110	-37.11	-38.57	-62.18	-33.43	-37.3	-37.37
-105	-38.7	-37.91	-49.17	-36.99	-35.78	-45.33
-100	-43.69	-44.17	-44.09	-46.97	-38.3	-41.91
-95	-43.88	-46.53	-35.48	-39.23	-45.37	-41.44
-90	-42.15	-41.01	-41.35	-33.9	-46.81	-48.04
-85	-35.94	-38.95	-42.27	-35.86	-39.02	-48.99
-80	-40.94	-38.36	-44.3	-38.62	-43.68	-43
-75	-41.8	-39.28	-52.68	-35.94	-48.28	-43.23
-70	-39.08	-51.64	-47.92	-42.55	-44.99	-43.4
-65	-41.24	-39.21	-34.83	-38.91	-48.34	-46.9
-60	-40.84	-41.82	-42.58	-47.29	-42.29	-39.24
-55	-40.12	-37.54	-42	-55.11	-33.88	-36.91
-50	-37.98	-40.73	-49.54	-42.97	-39.06	-49.67
-45	-40.54	-42.44	-36.2	-40.05	-42.48	-44.16



-40	-41.82	-40.74	-42.18	-47.37	-41.3	-35.61
-35	-40.07	-46.62	-31.33	-44.92	-35.96	-42.11
-30	-38.77	-31.08	-37.9	-36.51	-45.93	-34.65
-25	-31.97	-54.77	-41.42	-35.88	-37.91	-36.35
-20	-47.05	-32.25	-28.83	-41.12	-41.43	-28.84
-15	-32.63	-24.09	-28.75	-42.75	-24.47	-30.08
-10	-20.57	-22.93	-31.26	-21.27	-22.99	-28.04
-9.5	-27.92	-20.16	-20.53	-27.97	-21.76	-21.66
-9	-27.56	-27.42	-19.32	-26.91	-25.61	-20.09
-8.9	-24.04	-36.8	-20.34	-24.02	-30.31	-20.78
-8.8	-21.9	-35.07	-22.13	-21.96	-42.22	-22.04
-8.7	-21.27	-28.55	-24.07	-20.85	-34.82	-24.27
-8.6	-20.09	-23.9	-28.47	-20.27	-27.46	-27.27
-8.5	-19.9	-21.06	-36.8	-20.01	-24.76	-31.12
-8.4	-20.07	-19.68	-37.56	-20.15	-22.17	-37.71
-8.3	-20.72	-18.56	-27.95	-20.56	-20.63	-30.72
-8.2	-21.42	-18.05	-23.87	-21.35	-19.56	-26.52
-8.1	-22.91	-17.96	-21.28	-22.67	-19.01	-23.62
-8	-24.18	-18.34	-20.1	-24.8	-18.89	-21.75
-7.9	-25.14	-19.05	-19.56	-26.98	-19.42	-20.57
-7.8	-24.26	-20.25	-19.31	-29.55	-20.11	-19.94
-7.7	-23.16	-21.83	-19.17	-28.71	-21.34	-19.83
-7.6	-21.42	-23.82	-19.82	-25.18	-23.44	-20.02
-7.5	-20.22	-25.8	-20.64	-22.51	-26.65	-20.97
-7.4	-18.84	-26	-21.18	-20.74	-30.48	-22.34
-7.3	-18.2	-24.67	-22.44	-19.3	-30.11	-24.84
-7.2	-17.79	-22.93	-23.61	-18.41	-26.11	-28.46
-7.1	-17.86	-20.9	-24.31	-17.89	-22.74	-32.21
-7	-17.74	-18.84	-23.45	-17.71	-20.77	-29.71
-6.9	-18.74	-18	-21.8	-18.25	-19.25	-25.25
-6.8	-19.53	-17.28	-19.91	-19.06	-18.53	-22.44
-6.7	-21.68	-16.82	-18.5	-20.53	-18.03	-20.69
-6.6	-24.59	-17.27	-18.1	-22.67	-18.15	-19.41
-6.5	-30.99	-18	-17.74	-27.12	-18.9	-18.53

-6.4	-31.33	-19.91	-17.79	-38.81	-20.29	-18.54
-6.3	-24.61	-22.18	-18.77	-31.5	-22.75	-19.15
-6.2	-20.25	-27.38	-19.81	-23.94	-26.97	-20.34
-6.1	-17.66	-36.19	-22.43	-20.16	-40.44	-22.66
-6	-15.55	-27.67	-26.14	-17.58	-31.86	-26.21
-5.9	-14.05	-20.61	-48.94	-15.93	-23.68	-38.08
-5.8	-13.09	-17.69	-28.79	-14.74	-19.8	-33.24
-5.7	-12.06	-15.36	-21.68	-13.85	-16.93	-24.11
-5.6	-11.87	-13.76	-18.17	-13.55	-15.12	-20.05
-5.5	-11.84	-11.89	-15.16	-13.27	-13.98	-17.39
-5.4	-11.73	-11.49	-13.44	-13.79	-13.19	-15.45
-5.3	-12.62	-11.2	-12.44	-14.64	-12.87	-14.23
-5.2	-13.15	-11.05	-11.58	-15.5	-12.99	-13.6
-5.1	-14.66	-11.3	-11.14	-17.59	-13.5	-13.39
-5	-15.79	-12.03	-11.33	-20.16	-14.45	-13.66
-4.9	-16.29	-12.91	-11.65	-21.89	-16.03	-14.22
-4.8	-16.23	-14.35	-12.42	-21.28	-18.3	-15.42
-4.7	-14.89	-15.38	-13.61	-17.66	-21.57	-17.71
-4.6	-13.01	-16.11	-14.67	-15.05	-22.58	-20.94
-4.5	-10.91	-14.91	-15.67	-12.56	-19.16	-23.02
-4.4	-10.09	-13.13	-15.3	-10.85	-15.72	-20.4
-4.3	-9.1	-11	-13.2	-9.73	-12.97	-16.42
-4.2	-8.2	-9.45	-11.26	-8.92	-11.14	-13.48
-4.1	-7.59	-8.16	-10.08	-8.29	-9.81	-11.53
-4	-7.32	-6.99	-8.49	-7.89	-8.79	-9.82
-3.9	-7.14	-6.26	-7.47	-8.03	-8.2	-8.61
-3.8	-7.05	-6.05	-6.53	-8.18	-7.88	-7.9
-3.7	-7.29	-6.08	-5.95	-8.48	-7.96	-7.47
-3.6	-7.85	-6.13	-5.76	-8.76	-8.25	-7.35
-3.5	-8.01	-6.55	-5.79	-9.26	-8.76	-7.38
-3.4	-8.28	-7.07	-5.98	-9.52	-9.2	-7.69
-3.3	-8.16	-7.42	-6.39	-9.28	-9.67	-7.84
-3.2	-7.83	-7.59	-6.39	-8.81	-9.55	-8.13
-3.1	-7.16	-7.42	-6.2	-8.13	-8.93	-7.81

-3	-6.92	-7.03	-6.17	-7.37	-8.06	-7.43
-2.9	-6.32	-6.44	-5.58	-7.06	-6.96	-6.59
-2.8	-6.35	-6.14	-4.91	-6.73	-6.11	-5.79
-2.7	-6.27	-5.97	-4.52	-6.89	-5.58	-5.16
-2.6	-7.31	-6.14	-4.21	-7.88	-5.48	-5.02
-2.5	-9.25	-6.82	-4.47	-9.81	-5.83	-5.17
-2.4	-11.41	-8.07	-5.13	-13.33	-7.33	-6.08
-2.3	-13.59	-10.93	-7.07	-19.37	-9.77	-8.06
-2.2	-8.93	-11.8	-9.74	-13.78	-16.2	-12.45
-2.1	-4.48	-7.65	-12.45	-6.86	-21.21	-39.13
-2	-0.05	-2.49	-7.76	-2.42	-8.51	-11.03
-1.9	2.51	0.61	-2.9	0.82	-3.28	-4.58
-1.8	5.05	4.06	1.35	3.75	1.1	0.41
-1.7	7.25	6.01	4.09	5.93	4.02	3.69
-1.6	8.79	7.86	6.52	8.11	6.61	6.32
-1.5	10.46	10.06	8.87	9.52	8.62	8.74
-1.4	11.75	11.22	10.55	11.2	10.44	10.7
-1.3	13.09	12.64	12.06	12.3	11.86	12.19
-1.2	13.84	13.95	13.34	13.64	13.29	13.54
-1.1	14.93	14.94	14.62	14.74	14.53	14.88
-1	15.55	15.81	15.54	15.52	15.49	15.74
-0.9	16.2	16.69	16.66	16.29	16.33	16.76
-0.8	17.02	17.29	17.4	17.04	17.13	17.45
-0.7	17.85	17.97	18.2	17.5	17.76	18.14
-0.6	18.26	18.53	18.64	17.94	18.39	18.75
-0.5	18.49	18.9	19.17	18.54	18.74	19.19
-0.4	18.8	19.19	19.61	18.74	19.15	19.47
-0.3	19.14	19.4	19.71	19.01	19.41	19.79
-0.2	19.29	19.73	20	19.15	19.62	19.9
-0.1	19.24	19.71	20.05	19.16	19.67	20.01
0	19.29	19.65	20.1	19.29	19.76	20.1
0.1	19.11	19.65	19.9	19.22	19.66	20.03
0.2	19.07	19.76	19.6	19.14	19.46	19.83
0.3	18.83	19.27	19.4	18.95	19.21	19.43

0.4	18.49	18.74	19	18.69	18.9	19.11
0.5	17.94	18.34	18.3	18.4	18.44	18.76
0.6	17.57	17.6	17.67	17.79	17.95	18.12
0.7	17.02	17.08	16.84	17.17	17.27	17.34
0.8	16.29	16.36	15.79	16.53	16.55	16.74
0.9	15.53	15.24	14.77	15.82	15.77	15.72
1	14.47	14.24	13.4	15.07	14.89	14.98
1.1	13.64	13.06	12.28	13.9	13.59	13.61
1.2	12.29	11.64	10.46	12.88	12.32	12.15
1.3	10.67	9.89	8.35	11.46	10.87	10.44
1.4	9.37	8.04	6.06	10.07	9.22	8.52
1.5	7.46	5.68	2.96	8.64	7.22	6.46
1.6	5.27	3.03	-0.59	6.63	4.79	3.76
1.7	3.21	0.11	-4.93	4.47	1.91	0.14
1.8	-0.45	-4.66	-11.13	2.07	-1.51	-4.26
1.9	-4.33	-9.15	-10.66	-1.17	-6.21	-11.47
2	-8.83	-10.09	-6.89	-6.17	-16.34	-18.04
2.1	-12.83	-6.58	-4.27	-14.14	-14.95	-9.09
2.2	-9.88	-5.09	-3.23	-29.27	-9.12	-5.74
2.3	-7.09	-3.74	-2.67	-13.6	-6.47	-4.31
2.4	-5.52	-3.4	-2.72	-9.32	-4.93	-3.36
2.5	-4.53	-3.13	-3.14	-7.22	-4.3	-3.2
2.6	-4.59	-3.63	-3.98	-6.06	-4.1	-3.38
2.7	-4.73	-4.26	-4.69	-5.79	-4.46	-3.81
2.8	-5.1	-5.15	-5.67	-5.78	-5.01	-4.55
2.9	-5.86	-6.09	-6.71	-6.18	-5.78	-5.54
3	-6.85	-6.6	-7.18	-6.63	-6.82	-6.46
3.1	-7.33	-8	-7.35	-7.68	-7.88	-7.2
3.2	-8.68	-7.89	-7.47	-8.31	-8.65	-7.8
3.3	-9.07	-8.62	-7.51	-8.75	-9.07	-8.11
3.4	-8.84	-7.87	-7.59	-9.26	-9.29	-8.27
3.5	-9.06	-8.03	-7.92	-9.28	-9.37	-8.5
3.6	-8.7	-7.93	-8.61	-9.17	-9.52	-8.87
3.7	-8.86	-8.36	-9.37	-9.26	-9.64	-9.34

3.8	-8.97	-9.24	-10.23	-8.71	-9.93	-10.2
3.9	-8.81	-10.43	-12.66	-8.98	-10.82	-11.55
4	-9.43	-12.04	-15.08	-9.22	-12.04	-13.42
4.1	-10.57	-13.42	-17.4	-9.79	-13.73	-15.79
4.2	-11.72	-16.19	-18.58	-10.54	-16.32	-18.99
4.3	-13.31	-18.11	-16.72	-11.58	-19.8	-20.92
4.4	-14.75	-17.49	-14.93	-13.14	-23.41	-19.07
4.5	-16.57	-15.47	-12.71	-15.12	-22.92	-16.38
4.6	-17.74	-13.52	-11.87	-17.36	-19.02	-14.29
4.7	-16.98	-11.91	-10.99	-19.34	-15.91	-12.64
4.8	-15.06	-11.1	-10.72	-19.39	-14.12	-11.82
4.9	-13.38	-10.81	-10.77	-17.64	-12.68	-11.17
5	-12.13	-10.57	-11.29	-16.07	-11.94	-11.13
5.1	-11.31	-10.66	-12.35	-14.49	-11.52	-11.24
5.2	-10.88	-11.08	-13.62	-13.5	-11.5	-11.86
5.3	-10.79	-11.79	-15.65	-12.73	-11.84	-12.74
5.4	-11.25	-13.01	-18.16	-12.32	-12.41	-14.01
5.5	-11.62	-15.2	-23.21	-12.24	-13.38	-15.81
5.6	-12.35	-17.92	-31.43	-12.48	-14.68	-18.03
5.7	-13.56	-21.84	-31.9	-13.23	-16.65	-21.67
5.8	-15.12	-30.82	-23.44	-14.31	-19.28	-26.72
5.9	-17.62	-38.11	-20.3	-15.28	-22.59	-31.33
6	-21.03	-25.71	-18.67	-17.07	-26.26	-27.83
6.1	-27.66	-21.31	-18.01	-19.49	-26.41	-24.36
6.2	-42.73	-19.26	-17.57	-23.33	-23.5	-21.9
6.3	-30.58	-17.91	-18.13	-28.73	-21.18	-20.72
6.4	-24.44	-17.53	-18.89	-32.77	-19.51	-20.57
6.5	-21.41	-17.68	-20.31	-28.34	-18.83	-20.71
6.6	-19.43	-18.38	-22.55	-23.98	-18.61	-21.68
6.7	-18.8	-19.57	-24.6	-21.69	-18.59	-23.18
6.8	-18.41	-21.31	-26.02	-20.34	-19.07	-24.53
6.9	-19	-23.44	-24.61	-19.4	-19.91	-25.85
7	-19.6	-24.76	-22.61	-19.14	-21.15	-25.77
7.1	-20.92	-24.07	-20.9	-19.31	-22.72	-23.54

7.2	-22.32	-22.6	-19.48	-19.86	-23.63	-21.65
7.3	-24.22	-20.55	-19.18	-20.68	-23.44	-19.89
7.4	-25.19	-19.12	-19.12	-21.97	-22.35	-18.94
7.5	-24.64	-18.34	-19.82	-23.51	-20.76	-18.23
7.6	-22.51	-18.17	-21.21	-24.63	-19.49	-18.05
7.7	-20.97	-18.25	-22.82	-24.81	-18.67	-17.84
7.8	-19.78	-19.07	-26.26	-24.09	-17.9	-18.57
7.9	-19.04	-20.3	-32.47	-22.87	-17.61	-19.11
8	-18.47	-22.45	-42.03	-21.52	-17.64	-20.73
8.1	-18.45	-26.59	-29.84	-20.28	-18.05	-23.49
8.2	-18.84	-33.06	-24.94	-19.76	-18.67	-26.56
8.3	-20.37	-38.12	-21.79	-19.3	-19.93	-33.62
8.4	-22.19	-27.67	-20.65	-19.26	-21.76	-44.1
8.5	-24.16	-23.84	-19.76	-19.57	-24.32	-31.07
8.6	-27.94	-21.61	-19.23	-20.16	-28.19	-25.91
8.7	-27.94	-21.61	-19.23	-21.18	-35.45	-22.92
8.8	-27.94	-21.61	-19.23	-22.81	-37.61	-21.4
8.9	-27.94	-21.61	-19.23	-24.9	-30.5	-20.52
9	-27.94	-21.61	-19.23	-28.22	-26.31	-19.75
9.5	-23.31	-19.29	-27.75	-22.76	-23.19	-30.54
10	-20.38	-26.12	-26.65	-22.52	-40.89	-32.53
15	-30.25	-26.82	-35.54	-36.43	-27.83	-33.81
20	-35.26	-42.87	-31.95	-34.76	-40.15	-26.75
25	-34.38	-42.04	-36.85	-48.26	-32	-36.06
30	-33.67	-30.56	-39.66	-37.32	-49.69	-37.28
35	-34.44	-43.84	-35.76	-31.97	-35.38	-43.43
40	-41.11	-35.44	-46.02	-43.64	-41.16	-38.08
45	-41.88	-37.29	-37.47	-47.28	-42.28	-40.56
50	-36.99	-50.15	-40.39	-44.22	-54.09	-45.8
55	-44.23	-44.14	-39.91	-37.2	-40.59	-35.88
60	-55.56	-40.66	-40.45	-35.17	-39.54	-37.07
65	-53.78	-40.7	-46.07	-46.22	-37.72	-60.69
70	-45.65	-71.82	-42.66	-40.96	-41.08	-41.72
75	-44.03	-48.11	-40.93	-43.06	-40.55	-45.21

80	-38.91	-49.34	-37.34	-36.92	-38.35	-49.32
85	-55.99	-39.2	-39.44	-40.47	-35.64	-64.15
90	-38.56	-40.04	-38.63	-35.79	-49.1	-37.14
95	-44.02	-38.59	-50.2	-36.59	-42.74	-36.94
100	-41.55	-34.34	-38.08	-40.61	-38.32	-40.21
105	-39.59	-37.73	-33.75	-37.4	-37.24	-33.38
110	-50.35	-32.8	-40.2	-36.11	-50.53	-35.71
115	-35.82	-39.45	-38.69	-35.65	-43.87	-34.92
120	-38.12	-31.91	-34.61	-30.89	-34.17	-40.32
125	-34.39	-30.47	-31.73	-29.56	-31.78	-32.54
130	-31.87	-33.64	-30.18	-33.73	-29.08	-33.22
135	-24.62	-24.24	-24.82	-27.73	-27.14	-28.71
140	-26.51	-27.81	-28.01	-28.94	-25.74	-28.67
145	-21.91	-21.67	-22.12	-22.96	-21.25	-21.72
150	-21.31	-20.74	-20.41	-22.49	-22.57	-22.38
155	-23.48	-23.72	-23.53	-26.19	-24.53	-23.34
160	-24.11	-26.5	-28.64	-30.27	-26.14	-26.9
165	-27.51	-27.72	-28.87	-33.33	-28.16	-25.78
170	-28.46	-28.89	-31.94	-32.99	-31.01	-28.83
175	-35.38	-28.72	-30.94	-34.76	-32.62	-39.02
180	-31.15	-34.69	-34.76	-32.11	-33.45	-33.02