



Annex A Detailed Test Data

A.1 Antenna diagram

A.1.1 Test Results

A.1.1.1 Rotating x-axis

A.1.1.1.1 Horizontal polarization

Azimuth deg	Frequency 2402.000 MHz dBi	Frequency 2480.000 MHz dBi
0.0	-16.69	-13.72
2.0	-18.19	-15.75
4.0	-11.50	-16.98
6.0	-11.50	-15.01
8.0	-8.35	-15.01
10.0	-7.18	-13.47
12.0	-7.18	-11.15
14.0	-5.13	-11.15
16.0	-4.48	-8.50
18.0	-4.48	-8.50
20.0	-3.69	-7.15
22.0	-3.69	-4.96
24.0	-3.21	-4.96
26.0	-2.89	-3.70
28.0	-2.88	-3.70
30.0	-2.04	-2.80
32.0	-2.04	-2.80
34.0	-1.19	-2.36
36.0	-1.19	-1.80
38.0	-0.76	-1.80
40.0	-0.80	-1.65
42.0	-0.80	-1.56
44.0	-1.36	-1.48
46.0	-1.36	-1.27
48.0	-2.22	-1.27
50.0	-2.60	-1.14
52.0	-2.60	-1.14
54.0	-3.41	-1.19
56.0	-3.41	-1.41
58.0	-4.41	-1.41
60.0	-4.82	-1.50
62.0	-4.82	-1.72
64.0	-5.46	-1.72
66.0	-6.01	-1.95
68.0	-6.01	-2.88
70.0	-7.92	-2.88
72.0	-9.11	-3.53
74.0	-9.10	-5.45
76.0	-12.03	-5.45
78.0	-13.59	-7.76
80.0	-13.59	-7.76
82.0	-15.69	-8.47
84.0	-15.69	-8.80
86.0	-15.65	-8.80
88.0	-14.04	-8.64
90.0	-14.04	-8.82
92.0	-9.95	-8.81
94.0	-8.48	-9.49
96.0	-8.48	-13.45
98.0	-5.79	-13.45
100.0	-4.48	-17.85
102.0	-4.48	-20.97
104.0	-2.07	-20.95
106.0	-1.31	-14.36
108.0	-1.30	-8.20
110.0	-0.26	-8.20
112.0	0.09	-6.41
114.0	0.09	-3.82
116.0	0.61	-3.82



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
118.0	0.72	-2.96
120.0	0.72	-1.81
122.0	0.58	-1.81
124.0	0.43	-1.50
126.0	0.43	-1.28
128.0	0.25	-1.28
130.0	0.25	-1.36
132.0	0.24	-1.71
134.0	0.20	-1.71
136.0	0.08	-1.90
138.0	0.08	-1.87
140.0	-0.30	-1.87
142.0	-0.42	-1.74
144.0	-0.42	-1.39
146.0	-0.23	-1.39
148.0	0.00	-1.17
150.0	0.00	-0.85
152.0	0.14	-0.85
154.0	0.11	-0.87
156.0	0.11	-1.15
158.0	-0.08	-1.15
160.0	-0.19	-1.63
162.0	-0.19	-1.64
164.0	-0.39	-2.05
166.0	-0.39	-3.30
168.0	-0.84	-3.30
170.0	-1.17	-4.01
172.0	-1.18	-5.61
174.0	-2.22	-5.60
176.0	-2.96	-6.16
178.0	-2.97	-6.84
180.0	-4.50	-6.84
182.0	-5.30	-7.19
184.0	-5.30	-7.78
186.0	-7.16	-7.78
188.0	-8.06	-7.96
190.0	-8.06	-8.05
192.0	-10.25	-8.05
194.0	-11.47	-8.25
196.0	-11.46	-9.10
198.0	-13.21	-9.10
200.0	-13.12	-9.61
202.0	-13.11	-10.06
204.0	-10.57	-10.07
206.0	-9.12	-9.73
208.0	-9.12	-8.02
210.0	-7.13	-8.01
212.0	-6.67	-7.46
214.0	-6.68	-7.73
216.0	-6.08	-7.73
218.0	-5.71	-8.08
220.0	-5.72	-8.75
222.0	-5.00	-8.74
224.0	-4.92	-8.60
226.0	-4.92	-8.20
228.0	-4.88	-8.21
230.0	-5.16	-8.29
232.0	-5.16	-9.54
234.0	-5.95	-9.55
236.0	-6.43	-10.34
238.0	-6.43	-10.78
240.0	-7.52	-10.78
242.0	-8.03	-9.12
244.0	-8.03	-9.12
246.0	-8.45	-8.29
248.0	-8.45	-7.25
250.0	-7.86	-7.24
252.0	-7.42	-7.02
254.0	-7.42	-6.63
256.0	-6.69	-6.63
258.0	-6.51	-6.40
260.0	-6.51	-6.48
262.0	-6.20	-6.48



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
264.0	-5.75	-6.79
266.0	-5.75	-7.36
268.0	-4.89	-7.36
270.0	-4.47	-7.43
272.0	-4.47	-7.42
274.0	-3.63	-7.43
276.0	-3.21	-7.47
278.0	-3.21	-7.41
280.0	-2.86	-7.41
282.0	-2.99	-7.38
284.0	-2.98	-7.22
286.0	-3.67	-7.22
288.0	-3.99	-7.08
290.0	-3.99	-6.75
292.0	-4.16	-6.75
294.0	-4.06	-6.69
296.0	-4.06	-6.70
298.0	-3.98	-6.70
300.0	-4.08	-6.75
302.0	-4.08	-6.57
304.0	-4.38	-6.57
306.0	-4.39	-6.26
308.0	-4.40	-5.82
310.0	-4.20	-5.82
312.0	-4.07	-5.66
314.0	-4.07	-5.63
316.0	-3.94	-5.63
318.0	-4.10	-5.57
320.0	-4.10	-4.84
322.0	-4.97	-4.84
324.0	-5.43	-3.97
326.0	-5.43	-3.96
328.0	-6.55	-3.73
330.0	-6.56	-3.51
332.0	-8.13	-3.51
334.0	-8.91	-3.67
336.0	-8.91	-4.05
338.0	-9.53	-4.05
340.0	-9.62	-4.18
342.0	-9.62	-4.36
344.0	-10.43	-4.36
346.0	-11.20	-4.54
348.0	-11.19	-5.70
350.0	-13.00	-5.70
352.0	-14.02	-6.73
354.0	-14.02	-9.74
356.0	-15.60	-9.74
358.0	-15.19	-11.75
360.0	-16.69	-13.72



A.1.1.1.2 Vertical polarization

<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
0.0	-6.18	-6.93
2.0	-5.67	-7.00
4.0	-5.69	-6.79
6.0	-6.04	-6.79
8.0	-6.04	-6.46
10.0	-6.29	-6.40
12.0	-6.82	-6.40
14.0	-6.82	-6.72
16.0	-7.74	-7.04
18.0	-7.74	-7.04
20.0	-8.37	-7.76
22.0	-10.20	-7.76
24.0	-10.20	-8.67
26.0	-13.56	-9.39
28.0	-13.57	-9.38
30.0	-19.10	-11.72
32.0	-19.09	-11.72
34.0	-22.23	-16.11
36.0	-19.46	-16.11
38.0	-19.47	-21.29
40.0	-16.00	-19.45
42.0	-12.96	-19.45
44.0	-10.88	-13.78
46.0	-7.98	-13.78
48.0	-7.98	-9.87
50.0	-6.12	-8.38
52.0	-6.11	-8.38
54.0	-5.34	-6.11
56.0	-4.18	-6.11
58.0	-4.18	-5.13
60.0	-3.72	-4.80
62.0	-3.03	-4.80
64.0	-3.03	-3.96
66.0	-2.84	-3.56
68.0	-2.46	-3.56
70.0	-2.45	-2.86
72.0	-2.20	-2.55
74.0	-2.04	-2.55
76.0	-2.04	-2.14
78.0	-2.08	-2.01
80.0	-2.08	-2.01
82.0	-2.13	-1.73
84.0	-2.00	-1.73
86.0	-2.04	-1.44
88.0	-2.07	-1.32
90.0	-1.21	-1.32
92.0	-1.22	-1.13
94.0	-1.49	-1.07
96.0	-0.63	-1.09
98.0	-0.63	-0.92
100.0	-0.95	-0.97
102.0	-0.68	-0.98
104.0	-0.72	-0.81
106.0	-0.67	-0.74
108.0	-0.94	-0.74
110.0	-0.95	-0.85
112.0	-1.06	-1.05
114.0	-1.20	-1.05
116.0	-1.20	-1.47
118.0	-1.14	-1.70
120.0	-1.23	-1.70
122.0	-1.22	-2.22
124.0	-1.35	-2.53
126.0	-1.47	-2.53
128.0	-1.53	-3.34
130.0	-1.58	-3.64
132.0	-1.41	-3.65
134.0	-1.40	-4.05
136.0	-1.63	-4.25
138.0	-2.55	-4.25



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
140.0	-2.56	-4.89
142.0	-3.03	-5.35
144.0	-3.94	-5.35
146.0	-3.93	-6.46
148.0	-4.20	-6.83
150.0	-5.26	-6.83
152.0	-5.25	-7.61
154.0	-5.80	-8.00
156.0	-7.37	-8.00
158.0	-7.38	-8.87
160.0	-8.47	-9.46
162.0	-8.46	-9.45
164.0	-8.69	-11.06
166.0	-8.96	-11.06
168.0	-8.97	-12.06
170.0	-9.10	-12.31
172.0	-9.95	-12.31
174.0	-9.98	-12.70
176.0	-10.41	-12.99
178.0	-11.36	-12.99
180.0	-11.39	-13.34
182.0	-11.61	-13.46
184.0	-11.59	-13.46
186.0	-11.59	-14.02
188.0	-11.54	-14.60
190.0	-11.40	-14.59
192.0	-11.37	-16.49
194.0	-11.43	-17.44
196.0	-11.17	-17.43
198.0	-11.18	-18.61
200.0	-11.00	-18.55
202.0	-10.73	-18.58
204.0	-10.71	-17.39
206.0	-10.47	-16.18
208.0	-10.02	-16.17
210.0	-10.02	-13.44
212.0	-9.50	-12.02
214.0	-8.50	-12.03
216.0	-8.49	-9.55
218.0	-7.76	-8.82
220.0	-6.57	-8.82
222.0	-6.56	-7.79
224.0	-6.06	-7.26
226.0	-5.27	-7.26
228.0	-5.28	-5.88
230.0	-4.91	-5.19
232.0	-4.23	-5.19
234.0	-4.23	-4.25
236.0	-3.87	-4.05
238.0	-2.99	-4.05
240.0	-3.00	-3.78
242.0	-2.29	-3.65
244.0	-2.29	-3.65
246.0	-2.10	-3.27
248.0	-2.02	-3.26
250.0	-2.02	-2.83
252.0	-2.02	-2.67
254.0	-2.03	-2.66
256.0	-2.02	-2.59
258.0	-1.94	-2.55
260.0	-1.68	-2.55
262.0	-1.67	-2.30
264.0	-1.73	-2.03
266.0	-1.83	-2.04
268.0	-1.83	-1.57
270.0	-1.89	-1.39
272.0	-1.91	-1.38
274.0	-1.92	-1.14
276.0	-1.82	-1.11
278.0	-1.53	-1.11
280.0	-1.52	-1.15
282.0	-1.49	-1.24
284.0	-1.56	-1.24



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
286.0	-1.57	-1.50
288.0	-1.65	-1.57
290.0	-1.97	-1.57
292.0	-1.97	-1.71
294.0	-2.20	-1.86
296.0	-2.44	-1.86
298.0	-2.43	-2.43
300.0	-2.52	-2.83
302.0	-2.66	-2.83
304.0	-2.66	-3.74
306.0	-2.81	-4.10
308.0	-3.36	-4.10
310.0	-3.35	-4.82
312.0	-3.98	-5.32
314.0	-5.39	-5.32
316.0	-5.39	-6.91
318.0	-6.24	-7.93
320.0	-8.17	-7.93
322.0	-8.17	-10.47
324.0	-10.36	-11.89
326.0	-10.37	-11.88
328.0	-11.36	-15.48
330.0	-11.81	-15.48
332.0	-11.85	-19.40
334.0	-11.48	-20.81
336.0	-10.71	-20.83
338.0	-10.69	-19.82
340.0	-10.24	-17.37
342.0	-9.13	-17.38
344.0	-9.14	-12.63
346.0	-8.75	-11.05
348.0	-7.93	-11.05
350.0	-7.92	-8.92
352.0	-7.49	-8.21
354.0	-6.58	-8.21
356.0	-6.74	-7.12
358.0	-6.22	-6.87
360.0	-6.18	-6.93



A.1.1.2 Rotating y-axis

A.1.1.2.1 Horizontal polarization

Azimuth deg	Frequency 2402.000 MHz dBi	Frequency 2480.000 MHz dBi
0.0	-0.97	-0.93
2.0	-0.96	-0.97
4.0	-1.77	-1.06
6.0	-1.77	-1.31
8.0	-3.31	-1.31
10.0	-3.88	-1.46
12.0	-3.88	-2.01
14.0	-3.90	-2.01
16.0	-3.43	-3.05
18.0	-3.43	-3.06
20.0	-2.46	-3.58
22.0	-2.46	-4.63
24.0	-2.30	-4.64
26.0	-2.43	-5.74
28.0	-2.43	-5.75
30.0	-2.91	-7.38
32.0	-2.91	-7.37
34.0	-3.67	-8.16
36.0	-3.67	-9.14
38.0	-4.66	-9.15
40.0	-5.20	-9.43
42.0	-5.19	-9.63
44.0	-6.51	-9.77
46.0	-6.52	-9.95
48.0	-7.86	-9.95
50.0	-8.43	-10.20
52.0	-8.43	-10.20
54.0	-9.27	-10.50
56.0	-9.28	-11.03
58.0	-9.46	-11.03
60.0	-9.43	-11.16
62.0	-9.42	-10.75
64.0	-8.83	-10.75
66.0	-8.18	-10.32
68.0	-8.18	-8.80
70.0	-6.42	-8.80
72.0	-5.60	-7.82
74.0	-5.60	-5.66
76.0	-4.23	-5.66
78.0	-3.88	-3.93
80.0	-3.88	-3.92
82.0	-3.77	-3.33
84.0	-3.77	-2.68
86.0	-3.53	-2.67
88.0	-3.19	-2.64
90.0	-3.19	-2.58
92.0	-2.49	-2.58
94.0	-2.35	-2.47
96.0	-2.35	-2.39
98.0	-2.72	-2.38
100.0	-3.16	-2.63
102.0	-3.16	-3.65
104.0	-4.67	-3.65
106.0	-5.57	-3.95
108.0	-5.58	-4.09
110.0	-6.40	-4.09
112.0	-5.36	-4.01
114.0	-5.36	-3.61
116.0	-2.37	-3.61
118.0	-1.32	-3.19
120.0	-1.32	-2.22
122.0	-0.05	-2.23
124.0	0.16	-1.89
126.0	0.16	-1.70
128.0	0.04	-1.69
130.0	-0.10	-1.63
132.0	-0.10	-1.30
134.0	0.19	-1.30



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
136.0	0.74	-1.14
138.0	0.74	-1.03
140.0	1.85	-1.03
142.0	1.90	-1.16
144.0	1.90	-1.82
146.0	0.90	-1.82
148.0	0.19	-2.18
150.0	0.19	-2.81
152.0	-0.98	-2.81
154.0	-1.10	-3.19
156.0	-1.10	-4.25
158.0	-0.37	-4.24
160.0	0.05	-5.23
162.0	0.04	-5.24
164.0	0.00	-5.57
166.0	0.00	-6.01
168.0	-1.16	-6.01
170.0	-1.80	-5.65
172.0	-1.80	-4.31
174.0	-2.80	-4.31
176.0	-3.10	-3.95
178.0	-3.11	-4.16
180.0	-2.80	-4.16
182.0	-2.23	-4.60
184.0	-2.23	-5.62
186.0	-1.55	-5.63
188.0	-1.82	-6.24
190.0	-1.82	-8.56
192.0	-3.98	-8.56
194.0	-5.85	-10.50
196.0	-5.85	-18.48
198.0	-10.41	-18.48
200.0	-11.45	-26.56
202.0	-11.46	-20.95
204.0	-9.86	-20.95
206.0	-8.67	-16.96
208.0	-8.67	-11.68
210.0	-6.83	-11.68
212.0	-6.25	-10.18
214.0	-6.25	-8.64
216.0	-5.31	-8.64
218.0	-4.83	-8.29
220.0	-4.83	-6.67
222.0	-3.32	-6.67
224.0	-2.55	-5.64
226.0	-2.55	-3.68
228.0	-1.21	-3.68
230.0	-0.73	-2.93
232.0	-0.73	-2.01
234.0	-0.20	-2.01
236.0	-0.19	-2.07
238.0	-0.19	-3.42
240.0	-0.81	-3.42
242.0	-1.51	-6.84
244.0	-1.51	-6.84
246.0	-4.61	-9.80
248.0	-4.61	-17.63
250.0	-11.85	-17.62
252.0	-19.02	-14.61
254.0	-19.01	-9.01
256.0	-10.11	-9.00
258.0	-7.07	-7.55
260.0	-7.06	-6.22
262.0	-4.49	-6.22
264.0	-4.27	-6.19
266.0	-4.27	-6.37
268.0	-4.00	-6.37
270.0	-3.64	-5.92
272.0	-3.64	-3.77
274.0	-1.99	-3.77
276.0	-0.79	-3.00
278.0	-0.79	-2.67
280.0	1.14	-2.67



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
282.0	1.50	-2.75
284.0	1.50	-2.32
286.0	0.96	-2.32
288.0	0.35	-2.06
290.0	0.35	-2.55
292.0	-1.00	-2.55
294.0	-1.70	-3.38
296.0	-1.71	-5.58
298.0	-2.76	-5.57
300.0	-2.59	-6.61
302.0	-2.59	-9.16
304.0	-1.87	-9.16
306.0	-2.04	-9.96
308.0	-2.04	-9.00
310.0	-3.97	-9.00
312.0	-5.34	-8.14
314.0	-5.34	-6.44
316.0	-7.14	-6.44
318.0	-6.50	-5.31
320.0	-6.50	-3.81
322.0	-3.25	-3.81
324.0	-2.13	-4.47
326.0	-2.13	-4.47
328.0	-2.23	-4.92
330.0	-2.23	-4.66
332.0	-4.69	-4.66
334.0	-5.92	-4.39
336.0	-5.92	-4.07
338.0	-7.87	-4.07
340.0	-8.65	-3.70
342.0	-8.65	-2.68
344.0	-6.77	-2.68
346.0	-4.56	-2.31
348.0	-4.56	-1.67
350.0	-1.51	-1.53
352.0	-0.81	-1.31
354.0	-0.81	-1.08
356.0	-0.42	-0.78
358.0	-0.52	-0.60
360.0	-0.52	-0.48



A.1.1.2.2 Vertical polarization

<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
0.0	-11.63	-13.30
2.0	-11.19	-13.30
4.0	-11.15	-14.87
6.0	-12.26	-14.86
8.0	-12.26	-15.26
10.0	-12.77	-14.93
12.0	-13.10	-14.91
14.0	-13.10	-14.01
16.0	-13.01	-14.07
18.0	-13.01	-14.07
20.0	-12.77	-15.01
22.0	-12.70	-15.01
24.0	-12.71	-15.53
26.0	-12.89	-15.70
28.0	-12.89	-15.69
30.0	-13.04	-16.00
32.0	-13.05	-15.98
34.0	-13.10	-16.56
36.0	-12.96	-16.55
38.0	-12.96	-16.91
40.0	-12.93	-16.87
42.0	-12.98	-16.88
44.0	-13.00	-17.09
46.0	-13.14	-17.09
48.0	-13.14	-17.53
50.0	-12.77	-17.49
52.0	-12.77	-17.50
54.0	-12.86	-16.83
56.0	-13.36	-16.84
58.0	-13.36	-16.37
60.0	-13.72	-16.22
62.0	-15.52	-16.23
64.0	-15.53	-16.25
66.0	-16.73	-16.36
68.0	-19.15	-16.36
70.0	-19.14	-16.15
72.0	-20.29	-15.89
74.0	-22.43	-15.90
76.0	-22.45	-15.91
78.0	-24.56	-15.88
80.0	-24.56	-15.88
82.0	-26.76	-17.08
84.0	-28.67	-17.09
86.0	-28.68	-19.80
88.0	-27.35	-20.38
90.0	-25.15	-20.41
92.0	-25.16	-20.44
94.0	-25.95	-20.34
96.0	-23.22	-20.35
98.0	-23.22	-20.80
100.0	-19.71	-21.71
102.0	-14.91	-21.70
104.0	-14.92	-21.90
106.0	-13.81	-19.64
108.0	-12.93	-19.64
110.0	-12.92	-14.35
112.0	-12.70	-12.85
114.0	-12.70	-12.85
116.0	-12.69	-11.65
118.0	-12.83	-11.72
120.0	-14.23	-11.72
122.0	-14.22	-12.70
124.0	-15.81	-13.58
126.0	-22.38	-13.59
128.0	-22.39	-16.57
130.0	-30.11	-19.12
132.0	-24.88	-19.12
134.0	-24.88	-31.23
136.0	-20.70	-29.68
138.0	-15.39	-29.67



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
140.0	-15.40	-20.64
142.0	-14.03	-18.35
144.0	-13.07	-18.31
146.0	-13.07	-15.65
148.0	-13.42	-15.38
150.0	-15.28	-15.37
152.0	-15.28	-16.65
154.0	-16.34	-17.93
156.0	-19.49	-17.93
158.0	-19.49	-20.40
160.0	-22.26	-19.48
162.0	-22.25	-19.48
164.0	-22.04	-17.08
166.0	-20.36	-17.08
168.0	-20.36	-15.44
170.0	-19.20	-14.85
172.0	-16.53	-14.86
174.0	-16.53	-14.14
176.0	-15.22	-14.04
178.0	-13.22	-14.05
180.0	-13.22	-14.03
182.0	-12.41	-14.01
184.0	-11.25	-14.02
186.0	-11.24	-14.02
188.0	-11.17	-13.99
190.0	-11.66	-14.00
192.0	-11.67	-13.78
194.0	-11.98	-13.73
196.0	-13.33	-13.73
198.0	-13.31	-13.75
200.0	-14.45	-13.73
202.0	-17.92	-13.72
204.0	-17.92	-13.15
206.0	-20.25	-12.86
208.0	-28.26	-12.87
210.0	-28.26	-13.02
212.0	-32.89	-13.24
214.0	-29.49	-13.25
216.0	-29.49	-14.26
218.0	-27.42	-14.89
220.0	-23.78	-14.89
222.0	-23.78	-15.57
224.0	-21.83	-15.66
226.0	-18.77	-15.65
228.0	-18.78	-16.68
230.0	-18.42	-17.84
232.0	-19.20	-17.85
234.0	-19.20	-20.71
236.0	-19.90	-21.40
238.0	-21.03	-21.40
240.0	-21.04	-23.75
242.0	-21.50	-23.37
244.0	-21.50	-23.37
246.0	-22.82	-18.98
248.0	-23.05	-18.99
250.0	-23.04	-16.08
252.0	-21.04	-15.50
254.0	-19.63	-15.50
256.0	-19.62	-15.21
258.0	-20.05	-15.38
260.0	-21.20	-15.37
262.0	-21.19	-16.77
264.0	-22.37	-17.79
266.0	-27.47	-17.78
268.0	-27.49	-19.69
270.0	-33.88	-20.87
272.0	-28.58	-20.88
274.0	-28.56	-23.71
276.0	-25.17	-23.66
278.0	-19.79	-23.65
280.0	-19.80	-21.54
282.0	-17.48	-21.13
284.0	-14.04	-21.11



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
286.0	-14.04	-21.04
288.0	-13.37	-20.31
290.0	-14.02	-20.32
292.0	-14.02	-19.61
294.0	-15.25	-20.04
296.0	-19.86	-20.05
298.0	-19.86	-22.42
300.0	-22.73	-23.22
302.0	-24.77	-23.21
304.0	-24.77	-23.69
306.0	-24.07	-24.47
308.0	-21.18	-24.45
310.0	-21.19	-23.98
312.0	-20.58	-21.65
314.0	-20.14	-21.66
316.0	-20.13	-16.53
318.0	-20.43	-15.02
320.0	-22.45	-15.02
322.0	-22.44	-13.87
324.0	-26.07	-13.90
326.0	-26.07	-13.90
328.0	-25.50	-14.10
330.0	-21.04	-14.10
332.0	-21.04	-14.44
334.0	-21.07	-15.21
336.0	-24.94	-15.20
338.0	-24.94	-19.86
340.0	-26.38	-24.95
342.0	-21.12	-24.93
344.0	-21.11	-23.10
346.0	-18.47	-19.45
348.0	-14.95	-19.44
350.0	-14.95	-15.30
352.0	-13.67	-14.14
354.0	-12.07	-14.14
356.0	-12.07	-12.58
358.0	-12.05	-12.50
360.0	-12.85	-12.50



A.1.1.3 Rotating z-axis

A.1.1.3.1 Horizontal polarization

Azimuth deg	Frequency 2402.000 MHz dBi	Frequency 2480.000 MHz dBi
0.0	-15.50	-8.56
2.0	-13.87	-8.78
4.0	-8.48	-9.10
6.0	-8.48	-10.30
8.0	-5.94	-10.30
10.0	-5.33	-10.33
12.0	-5.33	-9.55
14.0	-4.93	-9.55
16.0	-4.97	-9.08
18.0	-4.97	-9.08
20.0	-5.57	-9.04
22.0	-5.57	-8.79
24.0	-6.71	-8.79
26.0	-7.29	-8.04
28.0	-7.29	-8.04
30.0	-8.73	-7.90
32.0	-8.73	-7.90
34.0	-9.77	-8.18
36.0	-9.77	-9.13
38.0	-10.19	-9.13
40.0	-10.19	-9.72
42.0	-10.19	-10.30
44.0	-10.52	-10.67
46.0	-10.52	-10.54
48.0	-10.59	-10.55
50.0	-10.35	-10.37
52.0	-10.35	-10.37
54.0	-9.77	-10.66
56.0	-9.77	-11.62
58.0	-10.20	-11.62
60.0	-10.88	-11.97
62.0	-10.88	-11.91
64.0	-12.45	-11.91
66.0	-12.98	-11.60
68.0	-12.98	-10.83
70.0	-13.93	-10.82
72.0	-14.53	-10.57
74.0	-14.54	-10.40
76.0	-15.60	-10.40
78.0	-15.92	-11.13
80.0	-15.92	-11.13
82.0	-16.68	-11.52
84.0	-16.68	-11.37
86.0	-18.66	-11.37
88.0	-19.41	-10.78
90.0	-19.42	-9.36
92.0	-17.99	-9.36
94.0	-15.70	-9.00
96.0	-15.70	-8.76
98.0	-11.69	-8.75
100.0	-11.24	-8.63
102.0	-11.24	-8.10
104.0	-10.77	-8.10
106.0	-10.58	-7.96
108.0	-10.58	-8.41
110.0	-9.45	-8.41
112.0	-8.85	-8.79
114.0	-8.86	-9.35
116.0	-8.30	-9.35
118.0	-8.33	-9.75
120.0	-8.33	-11.82
122.0	-8.87	-11.83
124.0	-9.11	-13.10
126.0	-9.11	-14.36
128.0	-9.91	-14.37
130.0	-10.57	-13.81
132.0	-10.58	-11.66
134.0	-13.01	-11.66



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
136.0	-14.29	-10.82
138.0	-14.29	-9.08
140.0	-13.21	-9.08
142.0	-11.19	-8.45
144.0	-11.19	-7.43
146.0	-7.87	-7.44
148.0	-6.67	-7.08
150.0	-6.67	-6.55
152.0	-4.98	-6.55
154.0	-4.60	-6.48
156.0	-4.60	-6.80
158.0	-4.95	-6.79
160.0	-5.45	-7.45
162.0	-5.45	-7.45
164.0	-6.25	-7.55
166.0	-6.25	-7.13
168.0	-6.08	-7.13
170.0	-5.69	-6.85
172.0	-5.69	-6.46
174.0	-4.59	-6.46
176.0	-4.10	-6.39
178.0	-4.11	-6.24
180.0	-3.19	-6.23
182.0	-3.07	-6.10
184.0	-3.07	-5.67
186.0	-3.60	-5.67
188.0	-4.17	-5.63
190.0	-4.17	-6.48
192.0	-5.46	-6.48
194.0	-5.91	-7.44
196.0	-5.91	-8.97
198.0	-6.91	-8.96
200.0	-7.59	-9.43
202.0	-7.59	-11.00
204.0	-9.95	-11.00
206.0	-11.17	-12.23
208.0	-11.16	-14.41
210.0	-12.20	-14.41
212.0	-12.60	-14.51
214.0	-12.60	-13.95
216.0	-16.48	-13.96
218.0	-19.68	-13.94
220.0	-19.68	-15.40
222.0	-28.39	-15.39
224.0	-30.74	-16.57
226.0	-30.76	-18.72
228.0	-19.80	-18.74
230.0	-17.81	-18.92
232.0	-17.82	-16.52
234.0	-16.32	-16.52
236.0	-16.07	-15.22
238.0	-16.08	-13.83
240.0	-15.43	-13.82
242.0	-15.03	-15.00
244.0	-15.03	-15.00
246.0	-15.09	-16.40
248.0	-15.09	-21.84
250.0	-16.39	-21.85
252.0	-17.01	-26.08
254.0	-17.03	-23.78
256.0	-16.94	-23.76
258.0	-16.19	-21.00
260.0	-16.19	-17.93
262.0	-13.72	-17.93
264.0	-12.17	-18.49
266.0	-12.17	-18.29
268.0	-9.90	-18.27
270.0	-9.18	-18.16
272.0	-9.18	-17.58
274.0	-8.15	-17.58
276.0	-7.90	-16.81
278.0	-7.90	-13.98
280.0	-8.05	-14.00



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
282.0	-8.08	-12.73
284.0	-8.08	-10.93
286.0	-7.50	-10.93
288.0	-7.04	-10.56
290.0	-7.04	-10.32
292.0	-6.24	-10.32
294.0	-5.95	-10.22
296.0	-5.95	-9.47
298.0	-5.29	-9.49
300.0	-4.93	-9.17
302.0	-4.93	-8.03
304.0	-4.32	-8.02
306.0	-4.21	-7.52
308.0	-4.21	-7.01
310.0	-4.33	-7.01
312.0	-4.45	-7.15
314.0	-4.46	-8.28
316.0	-5.73	-8.29
318.0	-7.13	-8.90
320.0	-7.14	-9.98
322.0	-11.07	-9.97
324.0	-12.79	-12.64
326.0	-12.79	-12.63
328.0	-14.77	-14.23
330.0	-14.78	-12.53
332.0	-14.68	-12.53
334.0	-13.42	-10.74
336.0	-13.42	-8.46
338.0	-10.55	-8.46
340.0	-9.80	-8.11
342.0	-9.80	-7.73
344.0	-9.55	-7.74
346.0	-10.12	-7.67
348.0	-10.12	-7.69
350.0	-13.02	-7.70
352.0	-15.47	-8.00
354.0	-15.48	-8.41
356.0	-21.08	-8.44
358.0	-17.60	-8.88
360.0	-15.50	-8.87



A.1.1.3.2 Vertical polarization

Azimuth deg	Frequency 2402.000 MHz dBi	Frequency 2480.000 MHz dBi
0.0	-10.37	-15.50
2.0	-9.71	-13.75
4.0	-9.27	-12.09
6.0	-8.55	-12.09
8.0	-8.55	-9.82
10.0	-8.05	-8.64
12.0	-7.20	-8.63
14.0	-7.20	-6.87
16.0	-6.21	-6.56
18.0	-6.21	-6.56
20.0	-5.82	-6.85
22.0	-5.52	-6.84
24.0	-5.52	-7.42
26.0	-5.89	-7.52
28.0	-5.89	-7.53
30.0	-6.15	-7.52
32.0	-6.15	-7.52
34.0	-6.32	-7.78
36.0	-6.04	-7.78
38.0	-6.03	-7.87
40.0	-5.58	-7.79
42.0	-5.18	-7.79
44.0	-4.89	-7.48
46.0	-4.54	-7.48
48.0	-4.54	-7.52
50.0	-4.45	-7.49
52.0	-4.45	-7.49
54.0	-4.50	-7.14
56.0	-4.56	-7.14
58.0	-4.57	-6.38
60.0	-4.54	-5.98
62.0	-4.68	-5.99
64.0	-4.67	-5.55
66.0	-4.74	-5.47
68.0	-5.12	-5.46
70.0	-5.11	-5.26
72.0	-5.22	-5.17
74.0	-5.74	-5.16
76.0	-5.74	-5.40
78.0	-6.28	-5.67
80.0	-6.28	-5.68
82.0	-6.50	-6.13
84.0	-7.61	-6.13
86.0	-7.60	-6.91
88.0	-8.15	-7.41
90.0	-9.28	-7.41
92.0	-9.28	-8.34
94.0	-9.91	-8.80
96.0	-10.44	-8.80
98.0	-10.43	-10.52
100.0	-9.86	-12.02
102.0	-9.10	-12.01
104.0	-9.10	-17.79
106.0	-9.36	-19.90
108.0	-11.10	-19.92
110.0	-11.10	-16.53
112.0	-12.05	-15.20
114.0	-12.10	-15.20
116.0	-12.10	-13.57
118.0	-11.56	-13.09
120.0	-10.94	-13.09
122.0	-10.93	-13.04
124.0	-11.02	-13.78
126.0	-11.27	-13.78
128.0	-11.27	-14.57
130.0	-11.41	-14.74
132.0	-10.05	-14.73
134.0	-10.05	-14.71
136.0	-9.49	-13.95
138.0	-7.93	-13.94



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
140.0	-7.93	-10.84
142.0	-7.24	-9.48
144.0	-6.29	-9.47
146.0	-6.29	-8.06
148.0	-6.40	-7.97
150.0	-7.24	-7.97
152.0	-7.25	-9.01
154.0	-7.73	-9.70
156.0	-9.10	-9.72
158.0	-9.09	-11.28
160.0	-11.22	-11.96
162.0	-11.23	-11.96
164.0	-12.24	-12.91
166.0	-12.15	-12.91
168.0	-12.15	-13.34
170.0	-11.16	-13.25
172.0	-9.36	-13.25
174.0	-9.36	-12.88
176.0	-8.97	-12.82
178.0	-8.89	-12.83
180.0	-8.89	-12.25
182.0	-8.95	-11.81
184.0	-9.43	-11.82
186.0	-9.43	-11.26
188.0	-10.03	-11.32
190.0	-11.14	-11.32
192.0	-11.14	-12.41
194.0	-11.37	-13.21
196.0	-11.66	-13.20
198.0	-11.66	-14.08
200.0	-11.99	-13.72
202.0	-13.74	-13.71
204.0	-13.74	-12.28
206.0	-15.04	-11.49
208.0	-17.04	-11.48
210.0	-17.03	-10.06
212.0	-16.84	-9.56
214.0	-14.66	-9.56
216.0	-14.65	-8.80
218.0	-14.08	-8.46
220.0	-13.21	-8.46
222.0	-13.20	-7.98
224.0	-12.75	-7.69
226.0	-11.14	-7.69
228.0	-11.14	-7.13
230.0	-10.24	-7.04
232.0	-8.26	-7.04
234.0	-8.26	-7.16
236.0	-7.53	-7.28
238.0	-6.85	-7.30
240.0	-6.85	-7.47
242.0	-7.42	-7.69
244.0	-7.42	-7.70
246.0	-7.98	-8.08
248.0	-9.20	-8.08
250.0	-9.20	-8.71
252.0	-9.57	-9.25
254.0	-10.32	-9.25
256.0	-10.32	-11.01
258.0	-10.63	-11.84
260.0	-11.33	-11.84
262.0	-11.33	-12.58
264.0	-12.08	-12.63
266.0	-14.16	-12.62
268.0	-14.15	-12.92
270.0	-15.50	-13.33
272.0	-20.35	-13.32
274.0	-20.34	-14.72
276.0	-24.38	-15.62
278.0	-36.81	-15.62
280.0	-36.84	-17.25
282.0	-28.05	-17.98
284.0	-19.07	-17.98



<i>Azimuth deg</i>	<i>Frequency 2402.000 MHz dBi</i>	<i>Frequency 2480.000 MHz dBi</i>
286.0	-19.07	-19.03
288.0	-16.71	-19.09
290.0	-14.34	-19.10
292.0	-14.33	-17.30
294.0	-14.19	-15.49
296.0	-15.42	-15.49
298.0	-15.42	-12.16
300.0	-16.75	-11.24
302.0	-20.77	-11.25
304.0	-20.75	-10.50
306.0	-22.56	-10.30
308.0	-21.36	-10.30
310.0	-21.37	-10.13
312.0	-19.59	-10.01
314.0	-17.06	-10.02
316.0	-17.06	-10.76
318.0	-16.74	-11.60
320.0	-19.11	-11.61
322.0	-19.10	-13.65
324.0	-21.94	-13.80
326.0	-21.91	-13.80
328.0	-21.09	-12.05
330.0	-17.26	-12.05
332.0	-17.26	-10.60
334.0	-15.93	-10.49
336.0	-14.19	-10.49
338.0	-14.19	-10.99
340.0	-13.81	-11.30
342.0	-13.13	-11.30
344.0	-13.12	-11.80
346.0	-12.81	-12.18
348.0	-12.54	-12.18
350.0	-12.54	-14.09
352.0	-12.28	-15.40
354.0	-11.15	-15.40
356.0	-11.16	-16.20
358.0	-10.71	-15.50
360.0	-10.70	-15.50