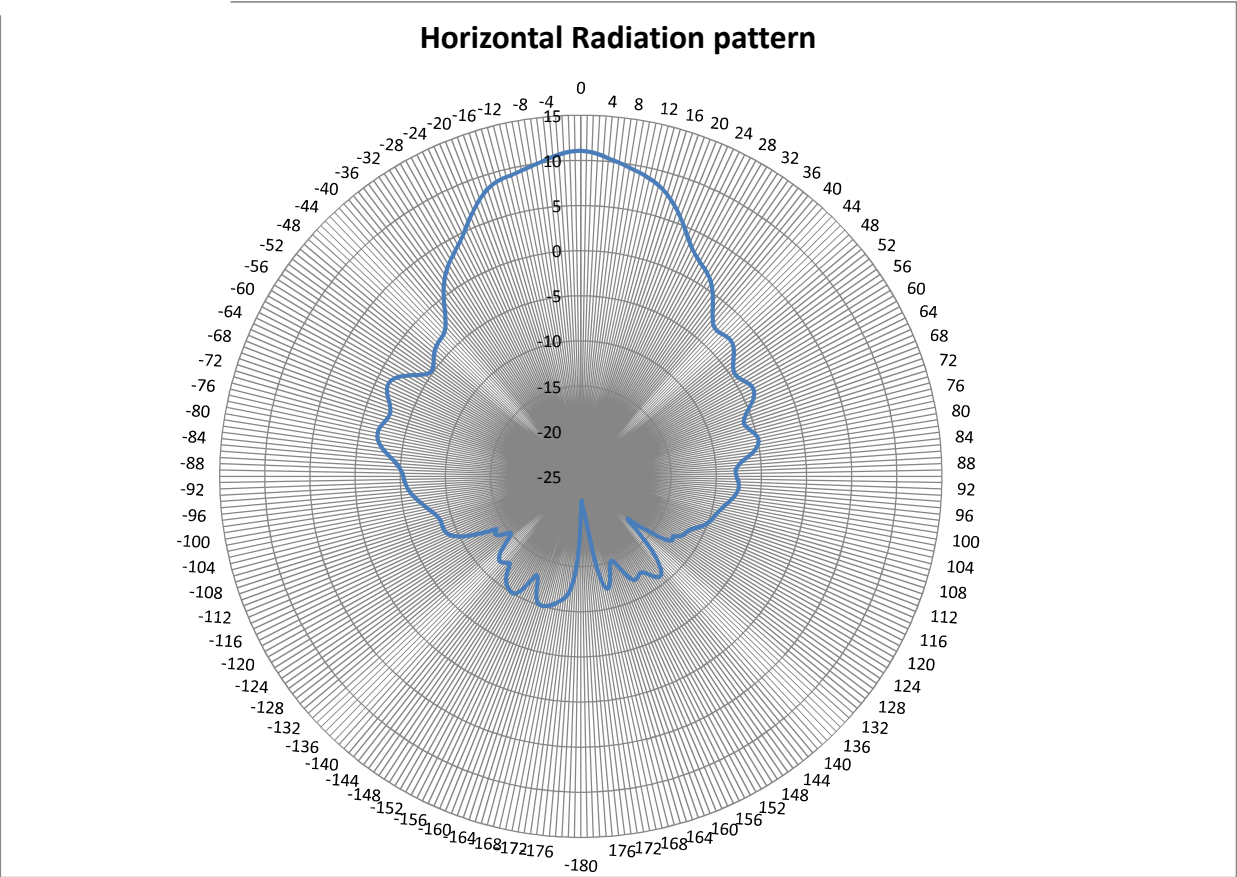


Extreme / PCE4552AH

Antenna model: WS-AO-DX13025N Panel for outdoor

Theta	5100.00(MHz)
0	11.0525
1	11.0139
2	10.9173
3	10.7681
4	10.5707
5	10.3546
6	10.1765
7	9.9901
8	9.8025
9	9.6172
10	9.4381
11	9.2599
12	9.0706
13	8.8658
14	8.6385
15	8.3623
16	8.0427
17	7.6654
18	7.2431
19	6.8040
20	6.3109
21	5.7716
22	5.2083
23	4.6378
24	4.0849
25	3.5736
26	3.1221
27	2.7436
28	2.4304
29	2.1738
30	1.9486
31	1.7264
32	1.4777
33	1.1792
34	0.8147
35	0.3785
36	-0.1242
37	-0.6750
38	-1.2441
39	-1.7913
40	-2.2675
41	-2.6265
42	-2.8403
43	-2.9098
44	-2.8657
45	-2.7597
46	-2.6495



47	-2.58195
48	-2.59063
49	-2.69378
50	-2.89038
51	-3.16624
52	-3.49612
53	-3.83801
54	-4.15044
55	-4.38549
56	-4.51014
57	-4.51174
58	-4.39922
59	-4.20687
60	-3.98218
61	-3.7757
62	-3.63091
63	-3.58147
64	-3.64416
65	-3.82499
66	-4.11422
67	-4.48702
68	-4.90704
69	-5.32119
70	-5.67284
71	-5.90649
72	-5.99166
73	-5.92299
74	-5.73649
75	-5.48255
76	-5.22598
77	-5.02108
78	-4.91136
79	-4.9224
80	-5.06737
81	-5.3416
82	-5.7291
83	-6.19119
84	-6.67971
85	-7.13399
86	-7.49552
87	-7.73031
88	-7.82943
89	-7.81999
90	-7.7406
91	-7.63501
92	-7.53875
93	-7.47614
94	-7.46341

95	-7.51076
96	-7.61218
97	-7.76522
98	-7.95535
99	-8.17188
100	-8.39762
101	-8.6201
102	-8.8306
103	-9.02322
104	-9.19288
105	-9.33747
106	-9.46421
107	-9.57838
108	-9.69161
109	-9.81543
110	-9.96861
111	-10.15805
112	-10.39296
113	-10.66688
114	-10.9603
115	-11.2468
116	-11.4882
117	-11.6651
118	-11.778
119	-11.8635
120	-11.976
121	-12.1617
122	-12.4568
123	-12.8638
124	-12.7122
125	-12.6582
126	-12.8687
127	-13.4051
128	-14.305
129	-15.5008
130	-16.0692
131	-16.8942
132	-17.9936
133	-17.7511
134	-16.418
135	-15.0737
136	-13.9017
137	-12.9282
138	-12.1417
139	-11.5408
140	-11.1303
141	-10.9092
142	-10.87835

143	-11.0251
144	-11.3091
145	-11.6749
146	-12.0377
147	-12.3071
148	-12.4193
149	-12.3772
150	-12.2447
151	-12.1098
152	-12.0537
153	-12.1343
154	-12.3806
155	-12.7839
156	-13.3149
157	-13.8965
158	-14.4414
159	-14.852
160	-15.0446
161	-14.9505
162	-14.5641
163	-13.9492
164	-13.2513
165	-12.6427
166	-12.2666
167	-12.223
168	-12.5829
169	-13.3907
170	-14.6651
171	-16.3653
172	-18.2649
173	-19.8718
174	-20.7156
175	-21.0092
176	-21.3221
177	-21.8808
178	-22.3144
179	-21.7826
-180	-20.1027
-179	-18.0345
-178	-16.1534
-177	-14.6212
-176	-13.4415
-175	-12.5746
-174	-11.9686
-173	-11.5642
-172	-11.2896
-171	-11.0782
-170	-10.88321

-169	-10.68472
-168	-10.49435
-167	-10.33537
-166	-10.21595
-165	-10.12244
-164	-10.04872
-163	-10.01114
-162	-10.05891
-161	-10.26362
-160	-10.68872
-159	-11.3434
-158	-12.1384
-157	-12.8157
-156	-13.0168
-155	-12.6077
-154	-11.852
-153	-11.0888
-152	-10.50953
-151	-10.16442
-150	-10.02228
-149	-10.02662
-148	-10.11484
-147	-10.24514
-146	-10.40726
-145	-10.62305
-144	-10.9291
-143	-11.3669
-142	-11.9551
-141	-12.4978
-140	-12.5111
-139	-12.3446
-138	-12.1299
-137	-12.0085
-136	-12.0118
-135	-12.167
-134	-12.495
-133	-13.0035
-132	-13.6464
-131	-14.3243
-130	-14.8443
-129	-15.0177
-128	-14.8106
-127	-14.3766
-126	-13.9378
-125	-13.6482
-124	-13.5748
-123	-13.7339
-122	-13.97

-121	-13.2348
-120	-12.4563
-119	-11.691
-118	-10.9749
-117	-10.34025
-116	-9.8085
-115	-9.38744
-114	-9.07914
-113	-8.8766
-112	-8.76404
-111	-8.72024
-110	-8.7177
-109	-8.72428
-108	-8.71237
-107	-8.66063
-106	-8.55443
-105	-8.39591
-104	-8.19538
-103	-7.96302
-102	-7.71463
-101	-7.45609
-100	-7.19358
-99	-6.92886
-98	-6.66541
-97	-6.40875
-96	-6.16795
-95	-5.95157
-94	-5.76855
-93	-5.62088
-92	-5.50668
-91	-5.41384
-90	-5.32452
-89	-5.21407
-88	-5.05318
-87	-4.82035
-86	-4.50422
-85	-4.11566
-84	-3.67887
-83	-3.23344
-82	-2.81718
-81	-2.46361
-80	-2.20052
-79	-2.03925
-78	-1.9856
-77	-2.03146
-76	-2.15868
-75	-2.33863
-74	-2.52963

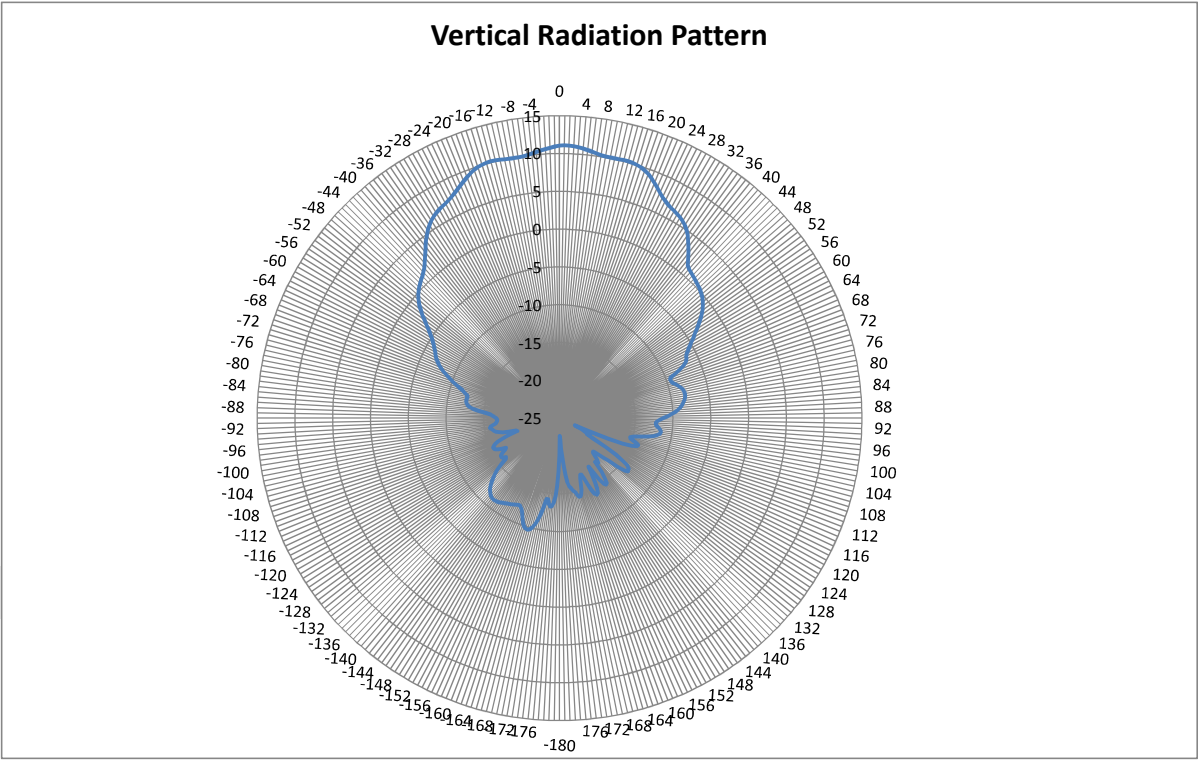
-73	-2.68348
-72	-2.75374
-71	-2.70908
-70	-2.54623
-69	-2.29397
-68	-1.99915
-67	-1.715914
-66	-1.492953
-65	-1.368797
-64	-1.368574
-63	-1.505482
-62	-1.782755
-61	-2.18928
-60	-2.69783
-59	-3.26413
-58	-3.82436
-57	-4.3033
-56	-4.63018
-55	-4.77059
-54	-4.73287
-53	-4.56049
-52	-4.31386
-51	-4.04883
-50	-3.8046
-49	-3.60673
-48	-3.46355
-47	-3.36829
-46	-3.30444
-45	-3.23672
-44	-3.12322
-43	-2.92542
-42	-2.61366
-41	-2.18036
-40	-1.643553
-39	-1.037802
-38	-0.402639
-37	0.22445
-36	0.81731
-35	1.35789
-34	1.83922
-33	2.26401
-32	2.63521
-31	2.97413
-30	3.29266
-29	3.61529
-28	3.95861
-27	4.33118
-26	4.74916

-25	5.20665
-24	5.69809
-23	6.21412
-22	6.72835
-21	7.22448
-20	7.68553
-19	8.09381
-18	8.43824
-17	8.71806
-16	8.92581
-15	9.07205
-14	9.1624
-13	9.208
-12	9.3583
-11	9.5029
-10	9.6476
-9	9.8017
-8	9.9701
-7	10.1528
-6	10.3414
-5	10.5305
-4	10.7034
-3	10.8544
-2	10.9678
-1	11.0353

Extreme / PCE4552AH

Antenna model: WS-AO-DX13025N Panel for outdoor

Theta	5100.00(MHz)
0	11.0525
1	11.1018
2	11.0962
3	11.0394
4	10.9396
5	10.8058
6	10.6536
7	10.4971
8	10.3533
9	10.2376
10	10.1615
11	10.1253
12	10.1266
13	10.1492
14	10.1727
15	10.1766
16	10.1422
17	10.0483
18	9.8852
19	9.6482
20	9.3359
21	8.95816
22	8.53448
23	8.08987
24	7.65704
25	7.26911
26	6.9433
27	6.68424
28	6.48765
29	6.32501
30	6.17205
31	5.99226
32	5.75439
33	5.44375
34	5.04193
35	4.54691
36	3.96881
37	3.33135
38	2.66986
39	2.0144
40	1.40161
41	1.13215
42	0.97292
43	0.8261
44	0.68686
45	0.54928
46	0.41507
47	0.2707



Based on the Raw PCTEL Data, plot is Phi=90 (Y-Z), gain is max (Port1, Port2, Port3) + affixed cable loss

48	0.10844
49	-0.08765
50	-0.322463
51	-0.604581
52	-0.9411366
53	-1.333824
54	-1.776872
55	-2.26195
56	-2.7751
57	-3.30252
58	-3.82588
59	-4.33106
60	-4.80966
61	-5.26071
62	-5.68875
63	-6.11432
64	-6.37275
65	-6.45313
66	-6.71194
67	-7.16311
68	-7.79025
69	-8.54993
70	-9.36772
71	-9.51373
72	-9.44744
73	-9.23127
74	-8.94417
75	-8.65171
76	-8.40359
77	-8.22603
78	-8.12451
79	-8.09447
80	-8.12596
81	-8.20956
82	-8.33738
83	-8.50498
84	-8.71691
85	-8.98127
86	-9.30844
87	-9.70459
88	-10.17426
89	-10.69869
90	-11.2434
91	-11.7389
92	-12.1006
93	-12.2605
94	-12.2029
95	-11.9941
96	-11.7355

97	-11.5294
98	-11.4511
99	-11.5568
100	-11.8803
101	-12.4329
102	-13.1982
103	-14.0867
104	-14.898
105	-15.3456
106	-15.2539
107	-14.7879
108	-14.2773
109	-14.0003
110	-14.1188
111	-14.7513
112	-15.9979
113	-17.9904
114	-20.8065
115	-22.7732
116	-22.3644
117	-21.7422
118	-21.0175
119	-20.4798
120	-20.7972
121	-19.8104
122	-17.7632
123	-16.084
124	-14.8322
125	-14.0252
126	-13.654
127	-13.6086
128	-13.5145
129	-13.9772
130	-14.9959
131	-16.4233
132	-17.1927
133	-17.8668
134	-18.4234
135	-18.7373
136	-18.6348
137	-18.1446
138	-17.5573
139	-17.1737
140	-17.1755
141	-17.5484
142	-15.9748
143	-14.926
144	-14.3685
145	-14.2611

146	-14.5738
147	-15.2761
148	-16.3326
149	-17.5138
150	-16.4784
151	-15.3471
152	-14.415
153	-13.8457
154	-13.7029
155	-13.9734
156	-14.6074
157	-15.485
158	-16.3814
159	-16.9891
160	-17.0466
161	-16.5661
162	-15.8187
163	-15.077
164	-14.5325
165	-14.2633
166	-14.293
167	-14.568
168	-14.9668
169	-15.1479
170	-15.3977
171	-15.6921
172	-15.9154
173	-16.4238
174	-17.3788
175	-18.7896
176	-19.8407
177	-20.9707
178	-22.1327
179	-22.662
-180	-20.1027
-179	-17.8297
-178	-16.0228
-177	-14.6741
-176	-13.762
-175	-13.2796
-174	-13.2117
-173	-13.5304
-172	-14.1643
-171	-14.1728
-170	-13.0509
-169	-12.0717
-168	-11.2462
-167	-10.58308
-166	-10.09117

-165	-9.77766
-164	-9.6451
-163	-9.68988
-162	-9.90433
-161	-10.26523
-160	-10.73025
-159	-11.2352
-158	-11.7038
-157	-12.0585
-156	-12.2544
-155	-12.3026
-154	-12.2494
-153	-12.1549
-152	-12.056
-151	-11.97
-150	-11.8912
-149	-11.8091
-148	-11.716
-147	-11.6061
-146	-11.4869
-145	-11.373
-144	-11.2719
-143	-11.1981
-142	-11.1547
-141	-11.1447
-140	-11.176
-139	-11.249
-138	-11.3712
-137	-11.5414
-136	-11.7641
-135	-12.0407
-134	-12.3656
-133	-12.7416
-132	-13.1633
-131	-13.6386
-130	-14.1691
-129	-14.7621
-128	-15.4094
-127	-16.1053
-126	-16.2659
-125	-15.8931
-124	-15.7278
-123	-15.7488
-122	-15.9329
-121	-16.2717
-120	-16.7467
-119	-16.908
-118	-16.3781
-117	-15.9287

-116	-15.6017
-115	-15.4261
-114	-15.4032
-113	-15.5469
-112	-15.8463
-111	-16.2997
-110	-16.8891
-109	-17.5867
-108	-18.3665
-107	-19.1692
-106	-19.0208
-105	-18.0303
-104	-17.2728
-103	-16.7255
-102	-16.3578
-101	-16.1356
-100	-16.0292
-99	-15.8649
-98	-15.7106
-97	-15.8265
-96	-16.1588
-95	-16.4706
-94	-16.6194
-93	-16.7275
-92	-16.7683
-91	-16.7224
-90	-16.5889
-89	-16.3907
-88	-16.1504
-87	-15.8863
-86	-15.1854
-85	-14.2595
-84	-13.542
-83	-13.0354
-82	-12.7175
-81	-12.5462
-80	-12.4708
-79	-12.456
-78	-12.4715
-77	-12.4956
-76	-12.3646
-75	-12.0309
-74	-11.6231
-73	-11.1499
-72	-10.61797
-71	-10.05198
-70	-9.47573
-69	-8.91836
-68	-8.39772

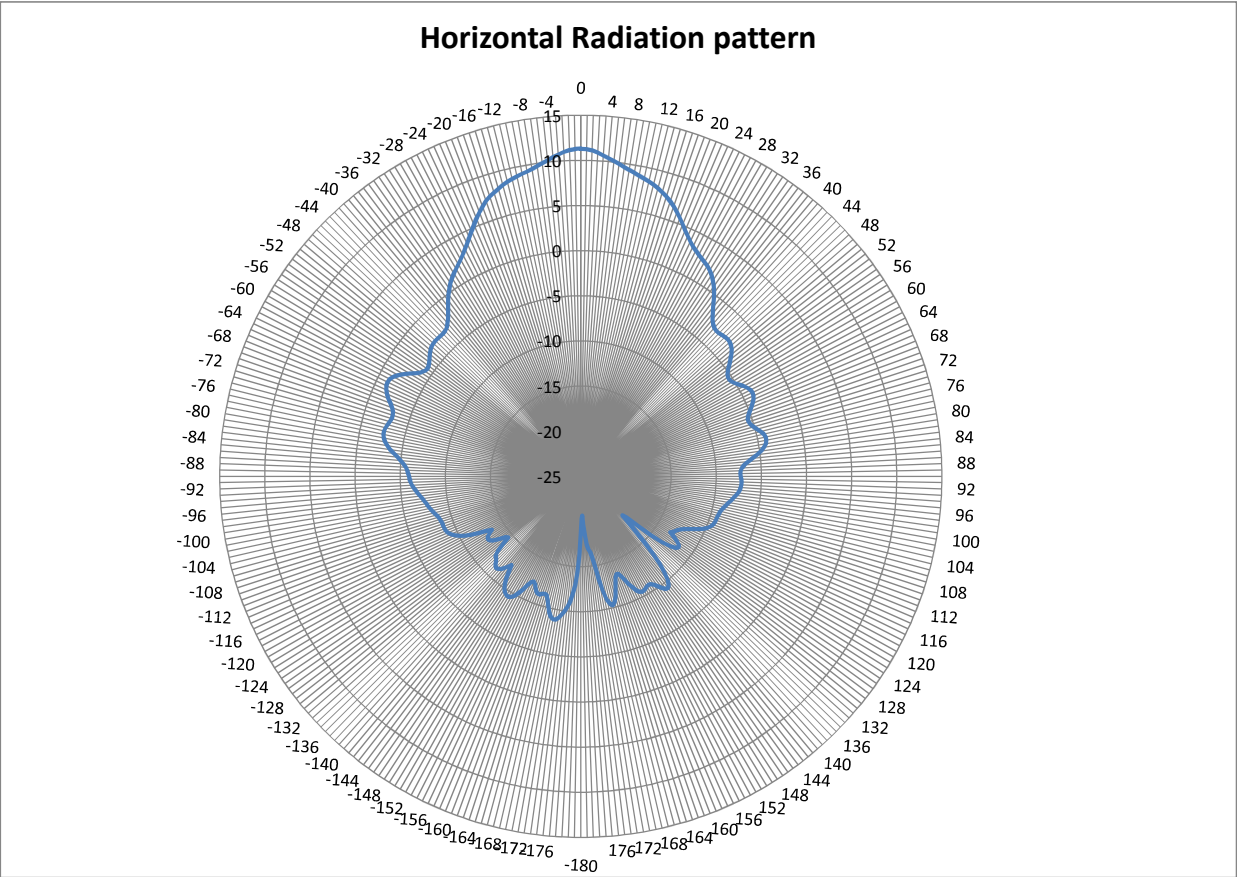
-67	-7.92819
-66	-7.51875
-65	-7.17044
-64	-6.871
-63	-6.60805
-62	-6.36026
-61	-6.1047
-60	-5.82208
-59	-5.49345
-58	-5.10652
-57	-4.65222
-56	-4.13087
-55	-3.55278
-54	-2.93657
-53	-2.31183
-52	-1.705933
-51	-1.146378
-50	-0.652961
-49	-0.234107
-48	0.11309
-47	0.39833
-46	0.64241
-45	0.87242
-44	1.11575
-43	1.40026
-42	1.74645
-41	2.16766
-40	2.65476
-39	3.19724
-38	3.7688
-37	4.33713
-36	4.87374
-35	5.36205
-34	5.78249
-33	6.13714
-32	6.42406
-31	6.65185
-30	6.8397
-29	7.00825
-28	7.17201
-27	7.35909
-26	7.57745
-25	7.84053
-24	8.14072
-23	8.47197
-22	8.81426
-21	9.1477
-20	9.4535
-19	9.7146

-18	9.9173
-17	10.0578
-16	10.1367
-15	10.1574
-14	10.1327
-13	10.0775
-12	10.0098
-11	9.9486
-10	9.9124
-9	9.9143
-8	9.9637
-7	10.0576
-6	10.1896
-5	10.3426
-4	10.4988
-3	10.6369
-2	10.7852
-1	10.9452

Extreme / PCE4552AH

Antenna model: WS-AO-DX13025N Panel for outdoor

Theta	5200.00(MHz)
0	11.288
1	11.2402
2	11.1102
3	10.9042
4	10.6315
5	10.3836
6	10.1316
7	9.8674
8	9.6067
9	9.3617
10	9.1321
11	8.91942
12	8.71884
13	8.51681
14	8.29624
15	8.04027
16	7.73445
17	7.39515
18	7.03367
19	6.61553
20	6.1453
21	5.63915
22	5.11636
23	4.60247
24	4.12199
25	3.69836
26	3.33726
27	3.04858
28	2.8132
29	2.6117
30	2.4176
31	2.20009
32	1.93246
33	1.59439
34	1.17469
35	0.67186
36	0.09699
37	-0.526906
38	-1.163342
39	-1.765446
40	-2.28179
41	-2.66884
42	-2.90025
43	-2.98292
44	-2.9523
45	-2.86254
46	-2.77163



Based on the Raw PCTEI Data, plot is Phi=0 (X-Z), gain is max (Port1, Port2, Port3) + affixed cable loss

47	-2.72919
48	-2.77259
49	-2.91896
50	-3.17574
51	-3.52718
52	-3.94638
53	-4.39096
54	-4.80606
55	-5.13799
56	-5.33616
57	-5.37666
58	-5.2586
59	-5.01679
60	-4.70524
61	-4.38252
62	-4.10746
63	-3.91899
64	-3.84498
65	-3.89493
66	-4.06258
67	-4.32764
68	-4.65078
69	-4.98332
70	-5.26249
71	-5.43294
72	-5.45552
73	-5.32779
74	-5.08231
75	-4.77519
76	-4.46806
77	-4.21954
78	-4.07068
79	-4.05154
80	-4.17483
81	-4.44078
82	-4.83499
83	-5.32516
84	-5.86272
85	-6.38207
86	-6.81844
87	-7.12262
88	-7.28155
89	-7.32188
90	-7.28862
91	-7.22912
92	-7.18471
93	-7.17999
94	-7.22968

95	-7.33415
96	-7.48659
97	-7.6772
98	-7.89386
99	-8.11738
100	-8.33959
101	-8.55111
102	-8.74364
103	-8.90761
104	-9.04056
105	-9.1336
106	-9.19342
107	-9.22466
108	-9.25079
109	-9.29732
110	-9.38984
111	-9.55785
112	-9.8171
113	-10.17721
114	-10.62806
115	-11.1408
116	-11.6576
117	-12.1172
118	-12.4648
119	-12.6993
120	-12.8678
121	-13.0511
122	-13.3278
123	-12.7127
124	-12.1351
125	-11.7329
126	-11.5984
127	-11.7958
128	-12.3863
129	-13.4112
130	-14.8658
131	-16.6167
132	-18.1593
133	-18.6493
134	-17.8489
135	-16.4021
136	-14.8228
137	-13.3109
138	-11.9621
139	-10.84635
140	-10.02175
141	-9.51453
142	-9.31783

143	-9.40018
144	-9.69712
145	-10.10852
146	-10.49952
147	-10.75701
148	-10.83009
149	-10.76089
150	-10.62698
151	-10.52431
152	-10.51799
153	-10.64479
154	-10.9311
155	-11.374
156	-11.9388
157	-12.5452
158	-13.0827
159	-13.4205
160	-13.4595
161	-13.1524
162	-12.5564
163	-11.8056
164	-11.0749
165	-10.53024
166	-10.29461
167	-10.44157
168	-11.0185
169	-12.0199
170	-13.36
171	-14.7875
172	-15.9142
173	-16.5295
174	-16.8754
175	-17.3894
176	-18.3099
177	-19.5983
178	-20.6319
179	-20.2437
-180	-18.4094
-179	-16.2532
-178	-14.3726
-177	-12.8895
-176	-11.7767
-175	-10.9621
-174	-10.35942
-173	-9.87544
-172	-9.45875
-171	-9.10957
-170	-8.88219

-169	-8.84823
-168	-9.05386
-167	-9.51173
-166	-10.14583
-165	-10.80218
-164	-11.268
-163	-11.4169
-162	-11.3173
-161	-11.1692
-160	-11.1443
-159	-11.313
-158	-11.6491
-157	-12.0275
-156	-12.239
-155	-12.1038
-154	-11.6212
-153	-10.9659
-152	-10.33718
-151	-9.85277
-150	-9.55284
-149	-9.42691
-148	-9.45212
-147	-9.60706
-146	-9.89294
-145	-10.32488
-144	-10.9209
-143	-11.6884
-142	-12.5541
-141	-12.0924
-140	-11.6866
-139	-11.3849
-138	-11.2162
-137	-11.2104
-136	-11.3861
-135	-11.7549
-134	-11.9691
-133	-12.0622
-132	-12.6236
-131	-13.6244
-130	-14.4965
-129	-14.3055
-128	-13.8465
-127	-13.3273
-126	-12.8991
-125	-12.6372
-124	-12.5787
-123	-12.7238
-122	-13.0559

-121	-13.5379
-120	-12.8789
-119	-11.9816
-118	-11.1902
-117	-10.51589
-116	-9.96654
-115	-9.53761
-114	-9.22293
-113	-9.01294
-112	-8.89072
-111	-8.83238
-110	-8.81332
-109	-8.80416
-108	-8.7724
-107	-8.70307
-106	-8.58735
-105	-8.43428
-104	-8.261
-103	-8.08616
-102	-7.91989
-101	-7.76711
-100	-7.61764
-99	-7.45946
-98	-7.28097
-97	-7.08143
-96	-6.86719
-95	-6.65422
-94	-6.45616
-93	-6.28642
-92	-6.15201
-91	-6.04972
-90	-5.96827
-89	-5.8846
-88	-5.7711
-87	-5.59587
-86	-5.33946
-85	-4.99479
-84	-4.57726
-83	-4.12527
-82	-3.67993
-81	-3.2839
-80	-2.96978
-79	-2.75604
-78	-2.64917
-77	-2.64362
-76	-2.72155
-75	-2.85197
-74	-2.99097

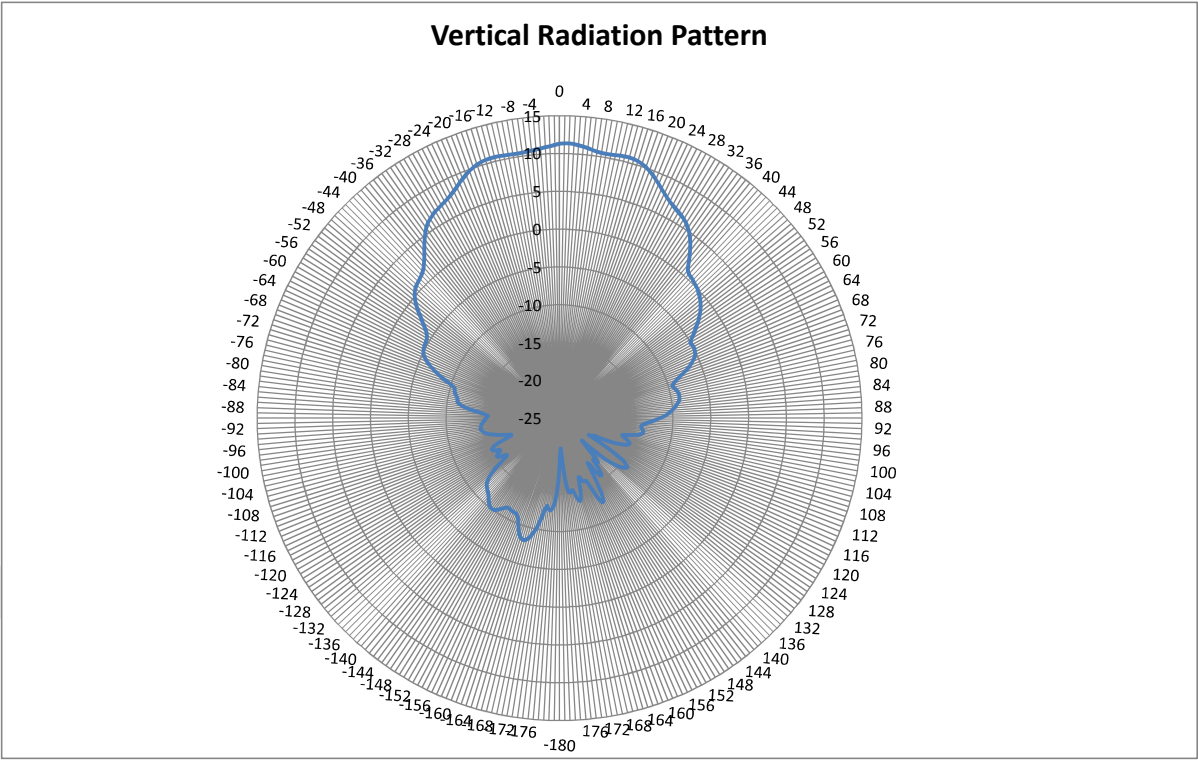
-73	-3.09107
-72	-3.10154
-71	-2.99065
-70	-2.75521
-69	-2.42435
-68	-2.05143
-67	-1.693972
-66	-1.403432
-65	-1.221944
-64	-1.173876
-63	-1.273206
-62	-1.518619
-61	-1.896454
-60	-2.37671
-59	-2.91123
-58	-3.43249
-57	-3.86786
-56	-4.15067
-55	-4.25127
-54	-4.18306
-53	-3.99496
-52	-3.74541
-51	-3.48739
-50	-3.26419
-49	-3.10037
-48	-3.00722
-47	-2.98043
-46	-3.0013
-45	-3.03693
-44	-3.0448
-43	-2.97963
-42	-2.80776
-41	-2.51468
-40	-2.113
-39	-1.632467
-38	-1.10974
-37	-0.581403
-36	-0.075433
-35	0.38939
-34	0.80587
-33	1.17557
-32	1.50924
-31	1.82205
-30	2.13344
-29	2.46419
-28	2.82969
-27	3.24479
-26	3.70359

-25	4.20628
-24	4.7412
-23	5.29098
-22	5.83518
-21	6.35033
-20	6.82333
-19	7.23948
-18	7.59056
-17	7.86941
-16	8.11998
-15	8.40491
-14	8.63132
-13	8.81692
-12	8.97447
-11	9.1233
-10	9.2831
-9	9.4704
-8	9.6884
-7	9.9355
-6	10.2052
-5	10.4807
-4	10.7424
-3	10.9699
-2	11.1464
-1	11.2553

Extreme / PCE4552AH

Antenna model: WS-AO-DX13025N Panel for outdoor

Theta	5200.00(MHz)
0	11.288
1	11.3542
2	11.3566
3	11.3003
4	11.1918
5	11.0497
6	10.8919
7	10.7389
8	10.6153
9	10.5331
10	10.5024
11	10.5198
12	10.5727
13	10.6339
14	10.6845
15	10.6969
16	10.6571
17	10.551
18	10.373
19	10.1245
20	9.8102
21	9.4432
22	9.0382
23	8.61868
24	8.20295
25	7.81179
26	7.45992
27	7.15682
28	6.89925
29	6.67722
30	6.47286
31	6.26417
32	6.02985
33	5.73964
34	5.37837
35	4.92463
36	4.37874
37	3.74045
38	3.03179
39	2.28163
40	1.5444
41	0.86677
42	0.6121
43	0.49264
44	0.37895
45	0.25975
46	0.12682
47	-0.02734



Based on the Raw PCTEL Data, plot is Phi=90 (Y-Z), gain is max (Port1, Port2, Port3) + affixed cable loss

48	-0.209105
49	-0.423147
50	-0.674748
51	-0.9677745
52	-1.305683
53	-1.690842
54	-2.11985
55	-2.5871
56	-3.08358
57	-3.59745
58	-4.11383
59	-4.62288
60	-5.02028
61	-4.96799
62	-4.93259
63	-4.95103
64	-5.04312
65	-5.22117
66	-5.49172
67	-5.86179
68	-6.33155
69	-6.89176
70	-7.51595
71	-8.15376
72	-8.74345
73	-9.22742
74	-9.50818
75	-9.3582
76	-9.18972
77	-9.03686
78	-8.92405
79	-8.86387
80	-8.86905
81	-8.93803
82	-9.07205
83	-9.26388
84	-9.49812
85	-9.76614
86	-10.06208
87	-10.38495
88	-10.74486
89	-11.1627
90	-11.6479
91	-12.2012
92	-12.792
93	-13.3586
94	-13.819
95	-14.089
96	-14.1472

97	-14.0456
98	-13.8871
99	-13.768
100	-13.7803
101	-13.9779
102	-14.3996
103	-15.0429
104	-15.85
105	-16.4194
106	-16.2474
107	-15.912
108	-15.5554
109	-15.2796
110	-15.1631
111	-15.2605
112	-15.5893
113	-16.1364
114	-16.8754
115	-17.76
116	-18.7752
117	-19.8976
118	-19.7527
119	-19.9794
120	-20.585
121	-18.8973
122	-17.1327
123	-15.7028
124	-14.7089
125	-14.1415
126	-13.9436
127	-14.0433
128	-14.3614
129	-14.8214
130	-15.3672
131	-16.0425
132	-16.9449
133	-18.1815
134	-19.6927
135	-20.849
136	-20.5863
137	-19.2001
138	-17.8955
139	-17.2395
140	-17.3633
141	-17.9638
142	-16.6382
143	-15.8626
144	-15.6059
145	-15.8446

146	-16.5437
147	-17.6557
148	-17.9674
149	-16.5842
150	-14.8517
151	-13.4293
152	-12.6142
153	-12.489
154	-13.0226
155	-14.0721
156	-15.2554
157	-15.9785
158	-16.0538
159	-15.9766
160	-16.1854
161	-16.6316
162	-16.7678
163	-16.0931
164	-14.9733
165	-14.0586
166	-13.6692
167	-13.8415
168	-14.4209
169	-15.0589
170	-15.3486
171	-15.2209
172	-15.0377
173	-15.1673
174	-15.8139
175	-17.0182
176	-18.6836
177	-20.3434
178	-21.0026
179	-20.1083
-180	-18.4094
-179	-16.676
-178	-15.1934
-177	-14.0503
-176	-13.2624
-175	-12.83
-174	-12.7328
-173	-12.9165
-172	-13.2996
-171	-12.8652
-170	-11.789
-169	-10.83945
-168	-10.01836
-167	-9.33584
-166	-8.79555

-165	-8.41569
-164	-8.20673
-163	-8.18777
-162	-8.36403
-161	-8.73035
-160	-9.24884
-159	-9.84722
-158	-10.41772
-157	-10.84529
-156	-11.0745
-155	-11.1529
-154	-11.1663
-153	-11.2008
-152	-11.2681
-151	-11.3339
-150	-11.3326
-149	-11.2078
-148	-10.9651
-147	-10.66201
-146	-10.36903
-145	-10.15054
-144	-10.03246
-143	-10.02548
-142	-10.11284
-141	-10.27854
-140	-10.49439
-139	-10.7336
-138	-10.9695
-137	-11.1825
-136	-11.3663
-135	-11.5209
-134	-11.6665
-133	-11.8317
-132	-12.059
-131	-12.3897
-130	-12.857
-129	-13.4925
-128	-14.3019
-127	-15.2754
-126	-16.3609
-125	-16.5262
-124	-16.16
-123	-15.667
-122	-15.3299
-121	-15.2953
-120	-15.5764
-119	-16.0153
-118	-16.0817
-117	-15.5405

-116	-15.2067
-115	-15.1138
-114	-15.2792
-113	-15.7029
-112	-16.3717
-111	-17.2571
-110	-18.216
-109	-18.2549
-108	-17.9208
-107	-17.4055
-106	-16.8792
-105	-16.3834
-104	-15.9368
-103	-15.5613
-102	-15.2022
-101	-14.9127
-100	-14.6977
-99	-14.5572
-98	-14.4887
-97	-14.4863
-96	-14.539
-95	-14.633
-94	-14.7544
-93	-14.8931
-92	-15.0346
-91	-15.1729
-90	-15.3034
-89	-15.4239
-88	-15.519
-87	-15.0533
-86	-14.4531
-85	-13.6076
-84	-12.7178
-83	-12.0516
-82	-11.6053
-81	-11.3558
-80	-11.2649
-79	-11.2846
-78	-11.0973
-77	-10.8847
-76	-10.73377
-75	-10.64249
-74	-10.58846
-73	-10.09298
-72	-9.37883
-71	-8.61371
-70	-7.85887
-69	-7.15093
-68	-6.51699

-67	-5.97302
-66	-5.53049
-65	-5.19505
-64	-4.96391
-63	-4.82644
-62	-4.75658
-61	-4.71499
-60	-4.65642
-59	-4.53191
-58	-4.30566
-57	-3.96111
-56	-3.49926
-55	-2.93961
-54	-2.31465
-53	-1.665691
-52	-1.036261
-51	-0.468722
-50	0.010794
-49	0.3873
-48	0.6631
-47	0.85284
-46	0.9963
-45	1.12098
-44	1.28291
-43	1.51846
-42	1.85118
-41	2.29072
-40	2.82373
-39	3.42234
-38	4.04246
-37	4.65361
-36	5.21831
-35	5.70673
-34	6.11662
-33	6.4421
-32	6.69446
-31	6.89112
-30	7.05432
-29	7.20988
-28	7.38005
-27	7.5841
-26	7.83319
-25	8.12874
-24	8.45965
-23	8.81594
-22	9.1724
-21	9.5127
-20	9.8188
-19	10.0802

-18	10.2853
-17	10.4351
-16	10.5283
-15	10.5743
-14	10.5827
-13	10.5618
-12	10.5241
-11	10.484
-10	10.4552
-9	10.4445
-8	10.4628
-7	10.508
-6	10.5826
-5	10.6761
-4	10.779
-3	10.8816
-2	10.9774
-1	11.1598