Antenna Specification

Date:December 10, 2009

Antenna Type: PCB Antenna
Antenna Gain: 13.41 dBi

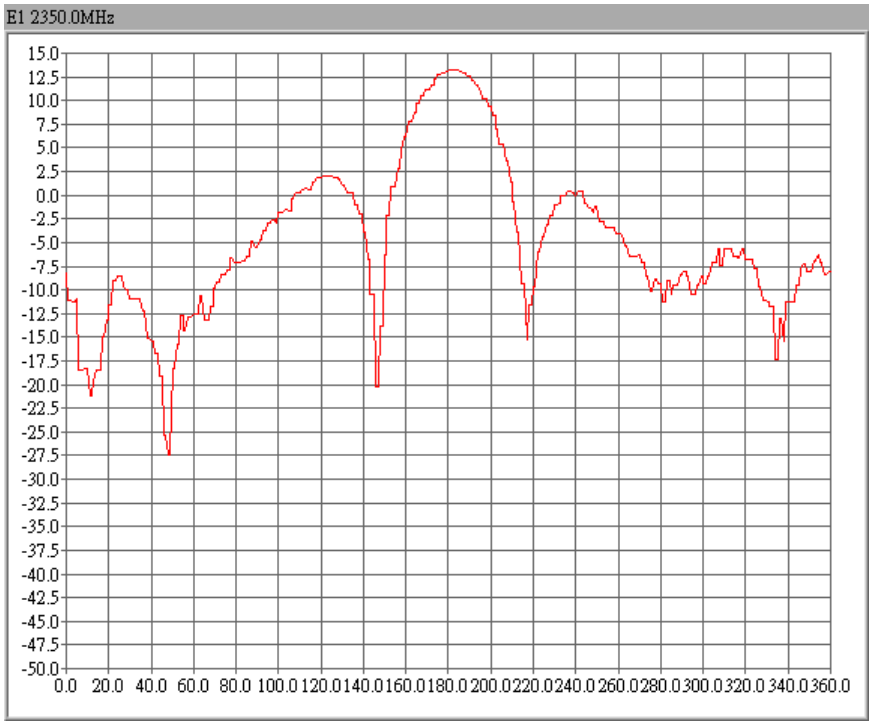
*Signature*_____

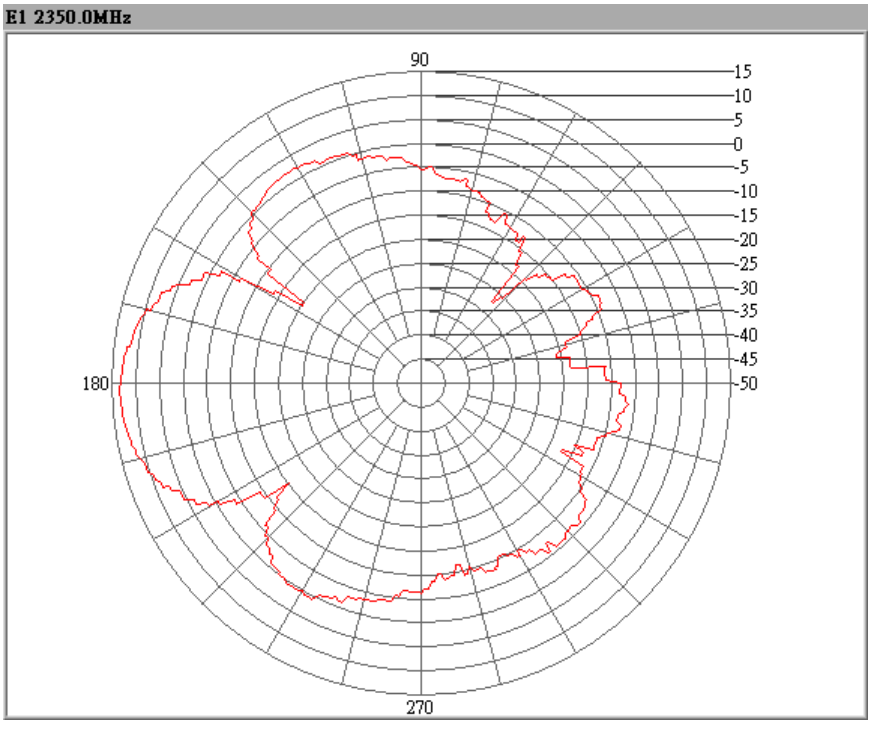
Name/Title: Benson Chen / Product Manager
Company Name: Loopcomm Technology, lnc.
Address: 1F, No. 114, Lian Chen Rd., Chung-Ho City, Taipei Hsien, 235, Taiwan,R.O.C.
TEL: +886-2-2243-2389
FAX: +886-2-2243-2198
Email: benson@loopcomm.com

H-plane 2D Pattern @2350.0MHz

Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	13.31
Max Gain@Angle (degree)	181.32
Min Gain (dBi)	-27.36
Min Gain@Angle (degree)	47.56
Average Gain (dBi)	3.21
-3dB Angle L (degree)	-13.58
-3db Angle R (degree)	14.45
HPB (degree)	28.03
FBR (dB)	21.17

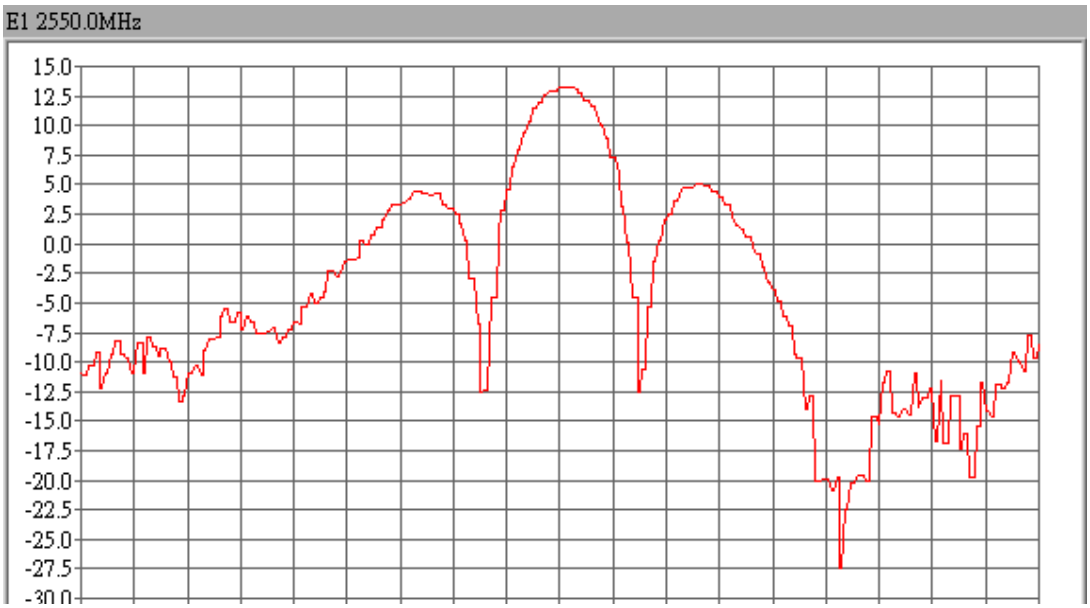


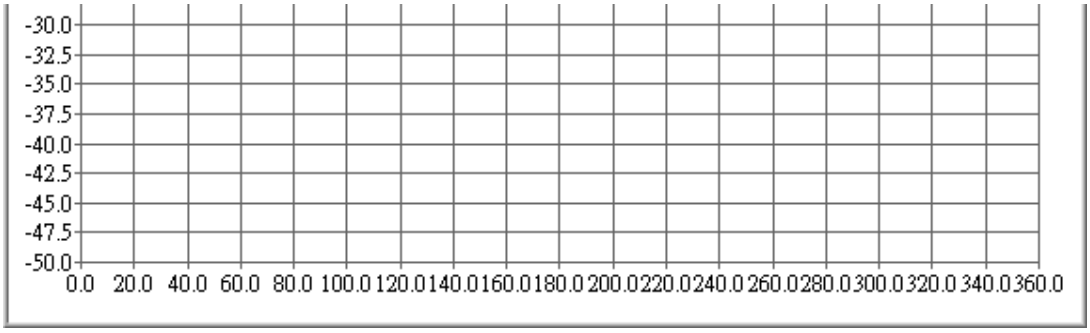


PA-23225 H-plane 2D Pattern @2550.0MHz

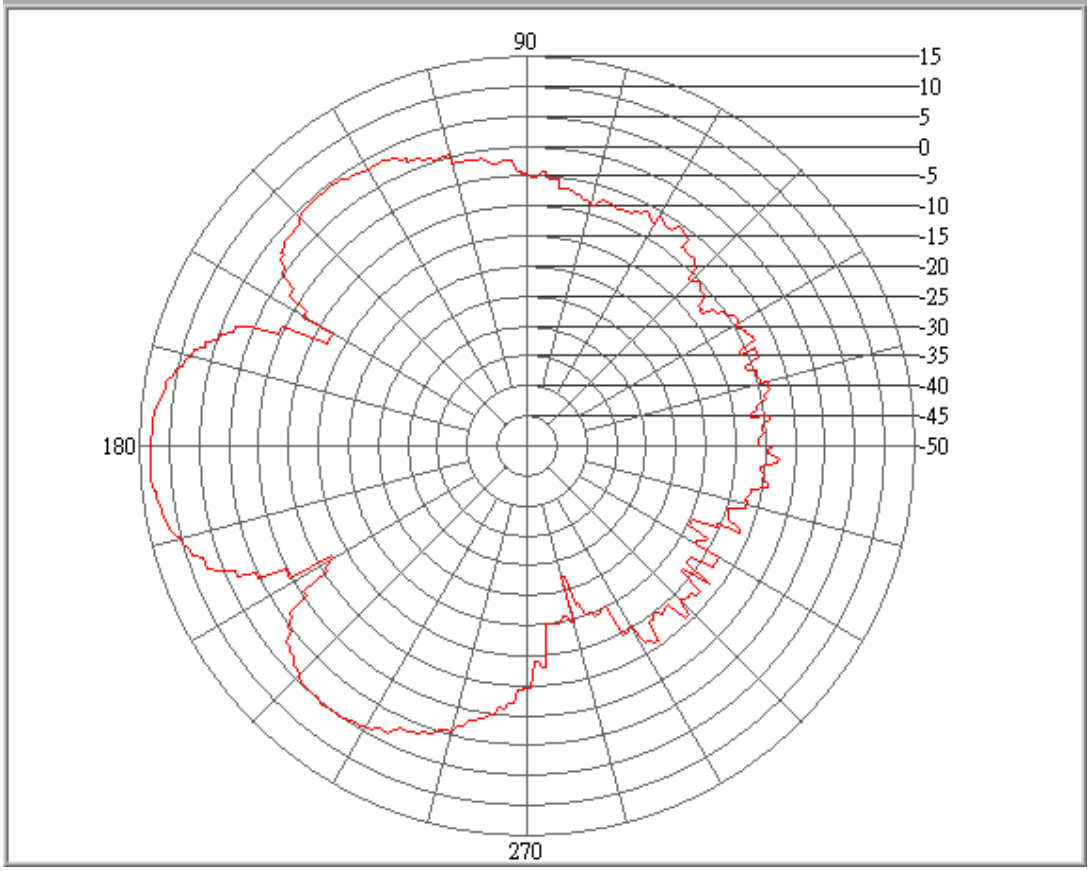
Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	13.24
Max Gain@Angle (degree)	181.26
Min Gain (dBi)	-27.47
Min Gain@Angle (degree)	285.42
Average Gain (dBi)	3.38
-3dB Angle L (degree)	-11.82
-3db Angle R (degree)	14.45
HPB (degree)	26.28
FBR (dB)	24.91




-30.0
-32.5
-35.0
-37.5
-40.0
-42.5
-45.0
-47.5
-50.0
0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 220.0 240.0 260.0 280.0 300.0 320.0 340.0 360.0

E1 2550.0MHz


90
180
270
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50

	E1
0	-10.35
1	-10.35
2	-9.14
3	-8.3
4	-11.36
5	-11.89
6	-9.55
7	-9.57
8	-9.62
9	-9.62
10	-9.93
11	-10.04
12	-10.93
13	-10.87
14	-10.17
15	-9.59
16	-8.49
17	-9.92
18	-10.81
19	-10.81
20	-10.54
21	-10.52
22	-10.45
23	-10.55
24	-10.71
25	-11.3
26	-11.56
27	-11.56
28	-9.58
29	-10.26
30	-12.63
31	-12.62
32	-12.61
33	-13.52
34	-13.82
35	-13.4
36	-13.4
37	-14
38	-15.51
39	-13.65
40	-12.1
41	-13.78
42	-14.27

43	-12.2
44	-11.58
45	-8.99
46	-8.99
47	-8.89
48	-8.81
49	-7.34
50	-7.02
51	-7.16
52	-6.83
53	-5.91
54	-5.91
55	-5.86
56	-5.83
57	-5.97
58	-5.78
59	-4.5
60	-5.32
61	-6.56
62	-6.68
63	-6.77
64	-6.77
65	-7.46
66	-7.48
67	-7.52
68	-7.02
69	-6.08
70	-6.13
71	-6.16
72	-7.09
73	-7.3
74	-7.31
75	-7.4
76	-6.69
77	-5.61
78	-6.62
79	-7.14
80	-7.3
81	-7.31
82	-6.96
83	-5.7
84	-5.6
85	-5.49
86	-4.83

87	-4.62
88	-4.18
89	-4.12
90	-3.76
91	-3.76
92	-3.81
93	-3.86
94	-3.48
95	-3.32
96	-2.77
97	-2.72
98	-2.29
99	-1.78
100	-0.9
101	-0.9
102	-0.61
103	-0.53
104	-0.21
105	-0.12
106	0.27
107	0.18
108	0.08
109	0.08
110	0.97
111	1.12
112	2.07
113	2.12
114	2.22
115	2.75
116	3.12
117	3.12
118	3.03
119	3.04
120	3.09
121	3.36
122	3.86
123	3.98
124	4.06
125	4.22
126	4.24
127	4.22
128	4.13
129	4.03
130	3.92

131	3.57
132	3.48
133	3.4
134	3.4
135	3.11
136	2.66
137	2.8
138	2.86
139	1.57
140	1.44
141	0.74
142	0.74
143	0.06
144	-0.63
145	-2.1
146	-2.57
147	-6.78
148	-7.56
149	-10.93
150	-10.91
151	-10.89
152	-10.89
153	-5.43
154	-4.27
155	-0.04
156	0.43
157	2.85
158	3.75
159	4.81
160	6.34
161	6.93
162	6.93
163	8.22
164	8.46
165	9.33
166	9.84
167	10.32
168	11.04
169	11.24
170	11.31
171	11.86
172	12.09
173	12.5
174	12.71

175	12.86
176	13.16
177	13.21
178	13.33
179	13.33
180	13.35
181	13.39
182	13.33
183	13.28
184	13.22
185	13.2
186	12.9
187	12.78
188	12.4
189	12.4
190	11.98
191	11.76
192	11.18
193	11.05
194	10.01
195	9.74
196	9.24
197	9.24
198	8.23
199	7.89
200	6.32
201	5.91
202	3.94
203	2.44
204	0.73
205	0.73
206	-2.8
207	-3.52
208	-9.38
209	-14.69
210	-23.89
211	-15.03
212	-9.89
213	-9.89
214	-4.94
215	-4.31
216	-1.38
217	-0.67
218	0.25

219	1.01
220	1.32
221	2.7
222	2.7
223	2.97
224	3.73
225	3.69
226	3.66
227	4.05
228	4.12
229	4.38
230	4.38
231	4.37
232	4.36
233	4.2
234	4.13
235	4.01
236	3.87
237	3.16
238	3.16
239	3.01
240	2.92
241	2.88
242	2.86
243	2.65
244	2.29
245	1.5
246	1.5
247	1.08
248	0.91
249	0.79
250	0.73
251	0.29
252	-0.09
253	-0.64
254	-1.67
255	-2.14
256	-2.14
257	-3.28
258	-3.42
259	-4.17
260	-4.3
261	-4.49
262	-5.13

263	-5.43
264	-6.72
265	-6.82
266	-7.03
267	-8.05
268	-9.16
269	-10.28
270	-12.06
271	-12.55
272	-12.56
273	-12.56
274	-14.37
275	-17.42
276	-18.61
277	-19.3
278	-18.23
279	-18.07
280	-16.96
281	-16.96
282	-16.83
283	-16.71
284	-18.16
285	-18.56
286	-31.14
287	-29.22
288	-19.85
289	-23.24
290	-27.92
291	-27.92
292	-23.89
293	-23.03
294	-18.54
295	-17.77
296	-15.26
297	-17.1
298	-18.73
299	-18.73
300	-16.53
301	-16.38
302	-15.72
303	-14.78
304	-12.7
305	-15.22
306	-16.83

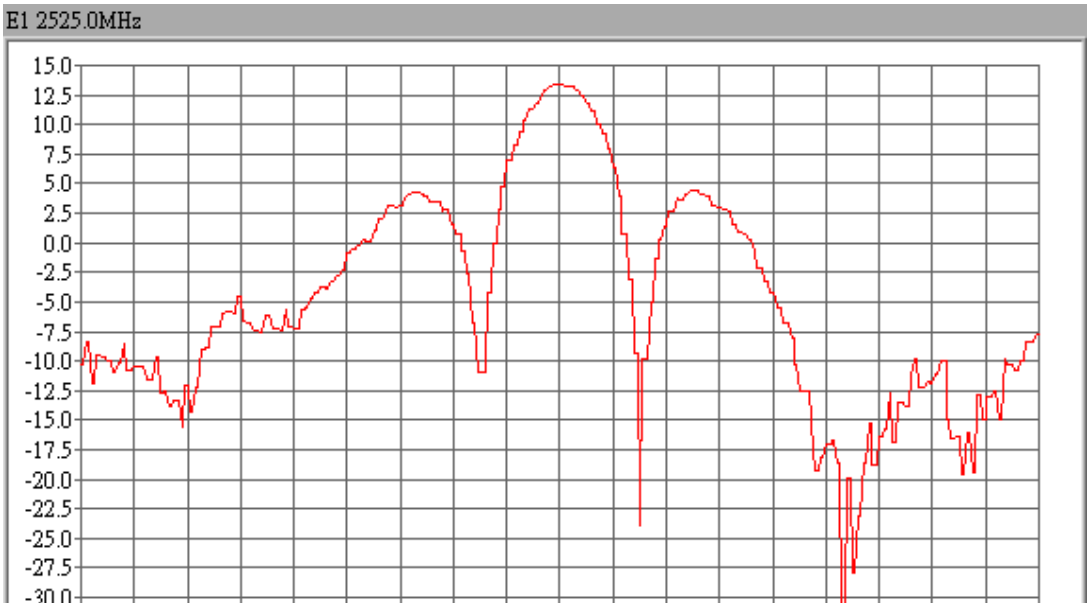
307	-14
308	-13.55
309	-13.59
310	-13.81
311	-12.72
312	-11.2
313	-10.22
314	-9.84
315	-12.17
316	-12.21
317	-12.1
318	-11.79
319	-11.87
320	-11.94
321	-11.18
322	-11.04
323	-9.94
324	-9.94
325	-12.15
326	-15
327	-16.19
328	-16.59
329	-16.41
330	-17.06
331	-19.58
332	-19.58
333	-17.46
334	-16.12
335	-18.97
336	-19.38
337	-12.85
338	-13.36
339	-14.98
340	-13.96
341	-13.04
342	-13.04
343	-12.53
344	-12.68
345	-14.98
346	-12.99
347	-9.75
348	-10.11
349	-10.3
350	-10.3

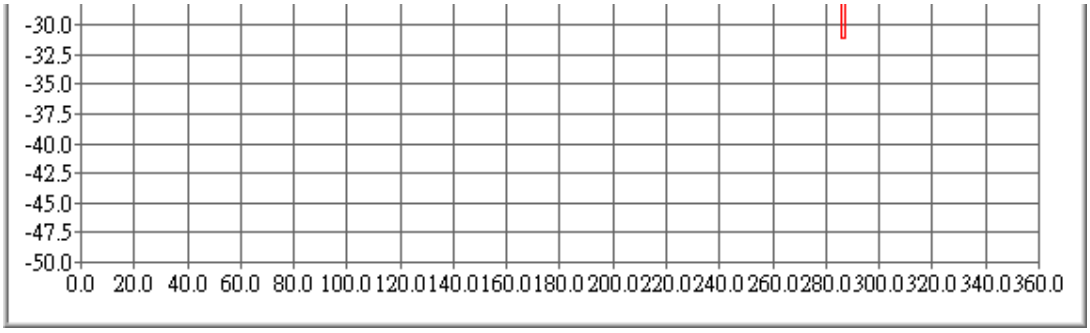
351	-10.7
352	-10.61
353	-10.05
354	-9.38
355	-8.39
356	-8.34
357	-8.31
358	-8.3
359	-7.77

PA-23225 H-plane 2D Pattern @2525.0MHz

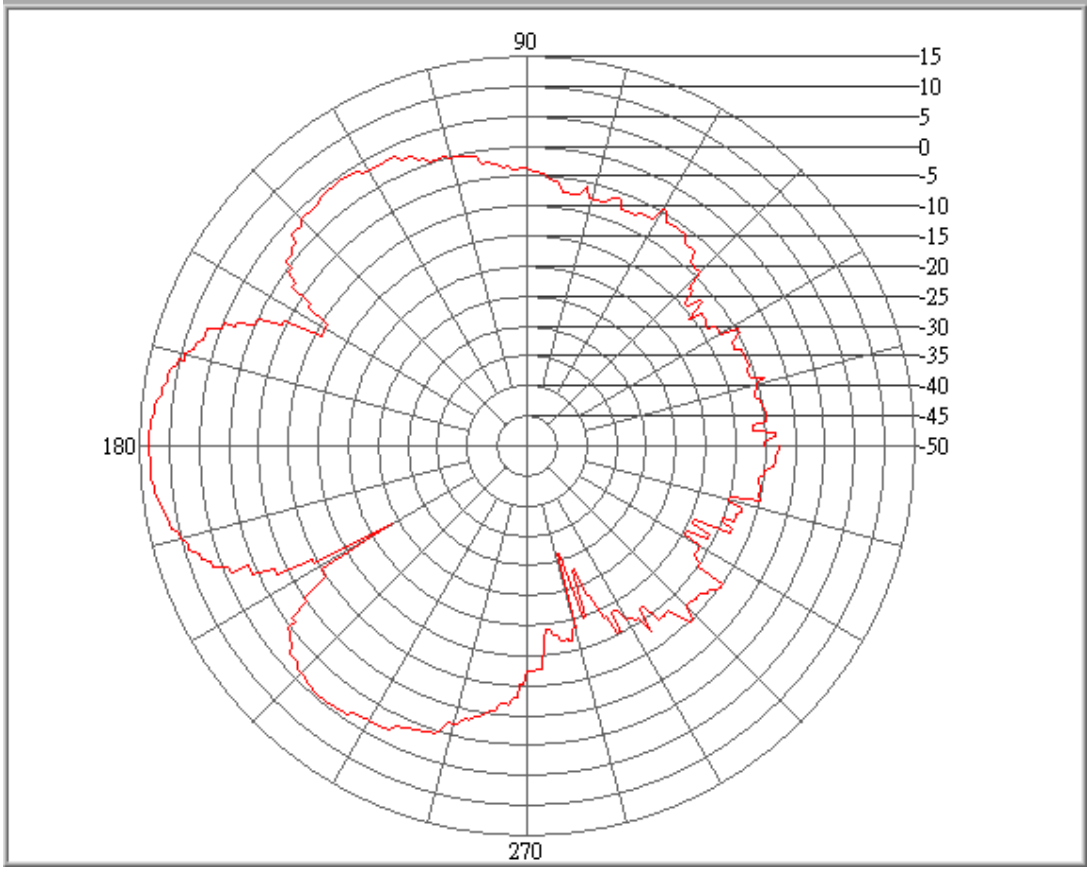
Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	13.39
Max Gain@Angle (degree)	180.58
Min Gain (dBi)	-31.14
Min Gain@Angle (degree)	285.95
Average Gain (dBi)	3.35
-3dB Angle L (degree)	-11.82
-3db Angle R (degree)	12.7
HPB (degree)	24.53
FBR (dB)	25.88




-30.0
-32.5
-35.0
-37.5
-40.0
-42.5
-45.0
-47.5
-50.0
0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 220.0 240.0 260.0 280.0 300.0 320.0 340.0 360.0

E1 2525.0MHz


90
180
270
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50

	E1
0	-10.67
1	-11.82
2	-12.79
3	-12.71
4	-12.69
5	-11.99
6	-11.99
7	-11.73
8	-11.25
9	-9.97
10	-9.23
11	-10.22
12	-10.21
13	-9.39
14	-9.39
15	-9.47
16	-9.56
17	-9.76
18	-9.83
19	-8.72
20	-8.59
21	-7.96
22	-8.88
23	-10.18
24	-10.18
25	-9.71
26	-9.62
27	-12.28
28	-12.7
29	-13.87
30	-12.74
31	-11.72
32	-11.72
33	-12.95
34	-13.19
35	-17.04
36	-16.76
37	-16.08
38	-19.54
39	-22.64
40	-19.77
41	-19
42	-18.61

43	-12.76
44	-12.63
45	-12.37
46	-12.03
47	-11.83
48	-11.61
49	-11.6
50	-11.21
51	-9.79
52	-9.5
53	-9.17
54	-9.17
55	-9.16
56	-8.37
57	-8.37
58	-8.07
59	-7.46
60	-7.69
61	-7.86
62	-7.86
63	-7.86
64	-8
65	-7.89
66	-7.58
67	-7.58
68	-8.13
69	-8.42
70	-7.36
71	-7.26
72	-7.22
73	-7.67
74	-8.78
75	-7.34
76	-6.3
77	-6.3
78	-7.61
79	-7.65
80	-7.93
81	-7.09
82	-5.87
83	-6.51
84	-6.77
85	-6.77
86	-5.36

87	-5.6
88	-6.13
89	-6.18
90	-6.22
91	-5.43
92	-5.34
93	-5.17
94	-4.13
95	-4.41
96	-4.71
97	-3.84
98	-3.55
99	-2.9
100	-2.9
101	-2.76
102	-2.43
103	-2.24
104	-2.1
105	-1.02
106	-0.88
107	-0.87
108	-0.87
109	-0.46
110	0.06
111	0.52
112	0.66
113	1.03
114	1.19
115	1.76
116	1.76
117	1.78
118	1.79
119	2.1
120	2.2
121	2.89
122	3.03
123	3.22
124	3.22
125	3.33
126	3.35
127	3.54
128	3.58
129	3.66
130	3.54

131	3.45
132	3.45
133	3.13
134	3.16
135	3.65
136	3.27
137	2.65
138	2.53
139	2.46
140	1.71
141	1.66
142	1.36
143	0.4
144	-0.1
145	-0.6
146	-2.54
147	-3.11
148	-6.86
149	-6.86
150	-8.72
151	-11.61
152	-10.88
153	-10.52
154	-6.11
155	-5.41
156	-0.48
157	-0.48
158	0.9
159	2.31
160	4.23
161	4.85
162	6.51
163	6.8
164	7.94
165	8.42
166	9.01
167	9.01
168	9.91
169	10.06
170	11.06
171	11.27
172	11.76
173	12.06
174	12.31

175	12.31
176	12.76
177	12.82
178	13.16
179	13.23
180	13.37
181	13.44
182	13.47
183	13.46
184	13.45
185	13.42
186	13.28
187	13.23
188	13.18
189	12.79
190	12.65
191	12.12
192	12.12
193	11.98
194	11.59
195	11.05
196	10.55
197	9.71
198	9.55
199	8.53
200	8.53
201	8.02
202	7.03
203	5.9
204	5.2
205	3.05
206	2.69
207	0.55
208	0.55
209	-1.91
210	-3.88
211	-8.8
212	-9.82
213	-23.18
214	-19.7
215	-8.93
216	-6.55
217	-4.01
218	-4.01

219	-2.1
220	-1.88
221	0.26
222	0.76
223	1.7
224	2.4
225	2.77
226	2.77
227	3.07
228	3.19
229	3.51
230	3.64
231	3.75
232	3.6
233	3.56
234	3.56
235	3.61
236	3.67
237	3.78
238	3.23
239	2.83
240	2.37
241	2.28
242	1.93
243	1.93
244	1.96
245	2.01
246	1.62
247	1.44
248	0.79
249	0.73
250	0.39
251	0.39
252	0.14
253	-0.06
254	-0.61
255	-0.72
256	-1.14
257	-1.51
258	-2.6
259	-2.6
260	-3.28
261	-3.61
262	-3.96

263	-4.04
264	-4.56
265	-4.75
266	-5.14
267	-6.59
268	-7.71
269	-7.71
270	-8.22
271	-8.26
272	-8.56
273	-9.85
274	-12.53
275	-13.46
276	-14.18
277	-18.49
278	-19.39
279	-19.19
280	-17.35
281	-18.57
282	-20.37
283	-19.17
284	-18.54
285	-17.83
286	-17.8
287	-17.78
288	-17.69
289	-22.8
290	-27.84
291	-23.56
292	-22.27
293	-20.42
294	-20.15
295	-18.98
296	-18.98
297	-17.8
298	-16.83
299	-16.29
300	-16.17
301	-16.24
302	-15.18
303	-11.8
304	-11.8
305	-13.6
306	-14.37

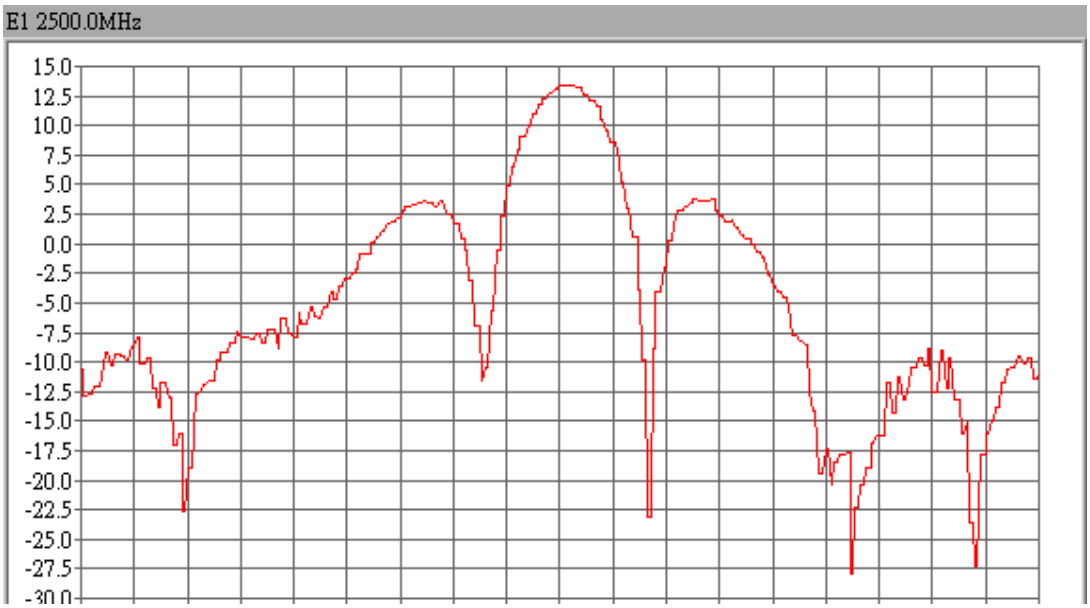
307	-11.35
308	-11.41
309	-13.19
310	-12.74
311	-11.83
312	-11.01
313	-10.42
314	-10.42
315	-9.58
316	-9.72
317	-10.33
318	-9.64
319	-8.81
320	-11.57
321	-12.55
322	-12.55
323	-9.03
324	-9.95
325	-12.22
326	-10.88
327	-9.59
328	-12.31
329	-13.21
330	-13.3
331	-16.02
332	-15.73
333	-15.12
334	-20.28
335	-23.56
336	-26.7
337	-27.21
338	-17.86
339	-17.86
340	-17.01
341	-16.01
342	-15.25
343	-14.97
344	-13.75
345	-13.3
346	-11.7
347	-11.7
348	-10.94
349	-10.55
350	-10.52

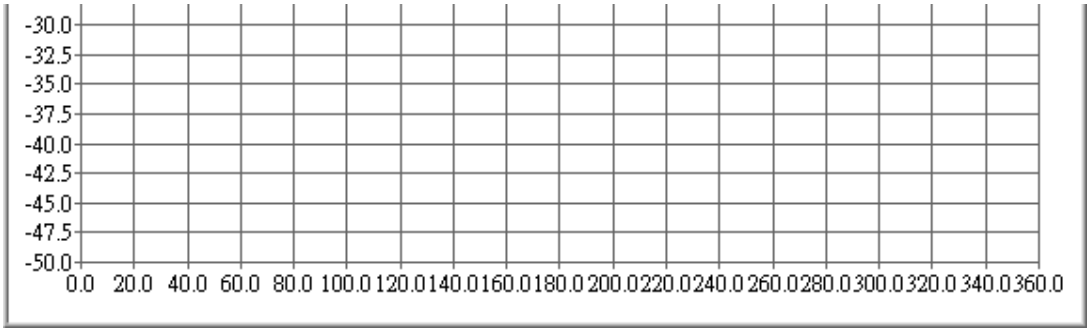
351	-10.38
352	-9.45
353	-9.7
354	-10.07
355	-10.07
356	-9.76
357	-9.7
358	-11.36
359	-11.29

PA-23225 H-plane 2D Pattern @2500.0MHz

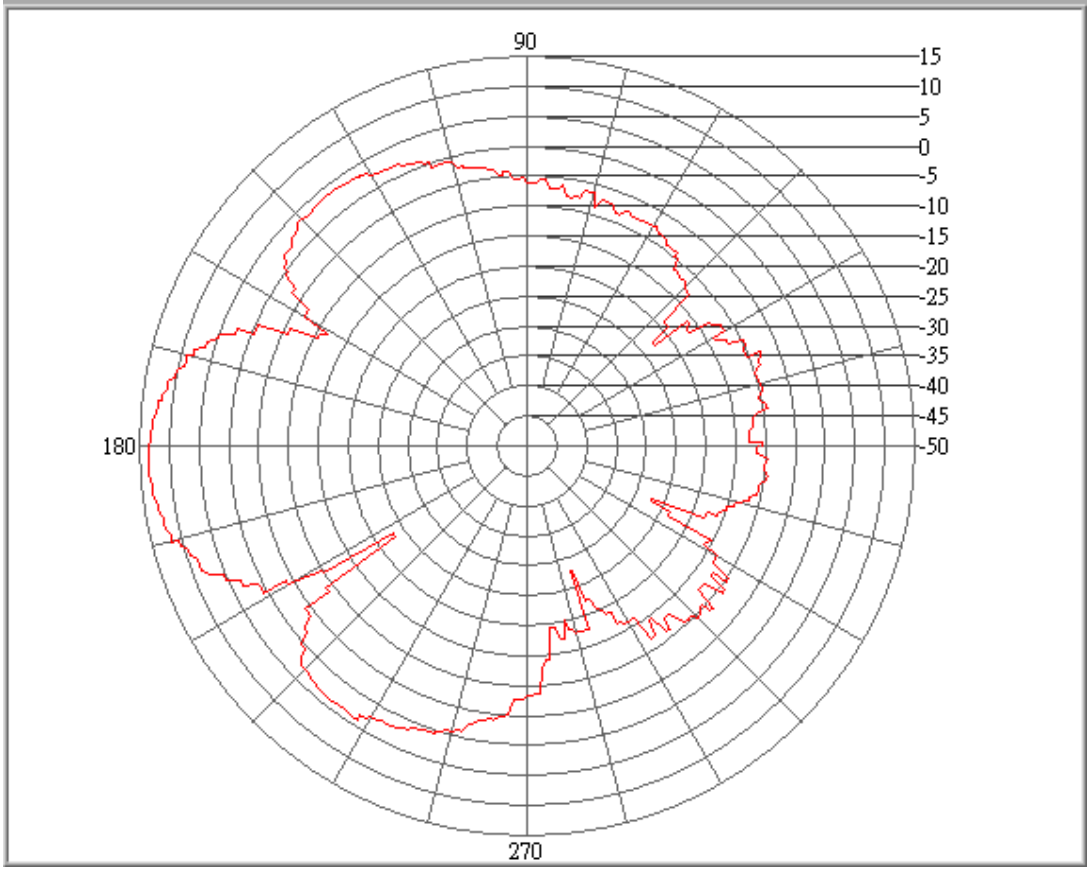
Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	13.47
Max Gain@Angle (degree)	181.33
Min Gain (dBi)	-27.84
Min Gain@Angle (degree)	289.44
Average Gain (dBi)	3.33
-3dB Angle L (degree)	-10.07
-3db Angle R (degree)	16.2
HPB (degree)	26.28
FBR (dB)	25.18




-30.0
-32.5
-35.0
-37.5
-40.0
-42.5
-45.0
-47.5
-50.0
0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 220.0 240.0 260.0 280.0 300.0 320.0 340.0 360.0

E1 2500.0MHz


90
180
270
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50

	E1
0.1	-15.11
1	-15.17
2	-16.21
3	-15.6
4	-14.09
5	-16.5
6	-18.56
7	-13.82
8	-12.64
9	-12.56
10	-11.91
11	-11.88
12	-11.82
13	-9.93
14	-8.98
15	-8.76
16	-8.74
17	-8.52
18	-7.7
19	-7.58
20	-7.45
21	-7.63
22	-7.68
23	-7.28
24	-7.3
25	-7.39
26	-7.39
27	-8.03
28	-8.34
29	-10.74
30	-10.96
31	-11.29
32	-12.17
33	-13.77
34	-13.77
35	-15.78
36	-16.32
37	-17.41
38	-17.62
39	-18.31
40	-19.12
41	-19.86
42	-19.86

43	-14.04
44	-13.59
45	-16.08
46	-14.25
47	-9.99
48	-10.76
49	-11.39
50	-8.95
51	-8.5
52	-8.71
53	-10.67
54	-8.97
55	-6.28
56	-7.02
57	-7.44
58	-8.08
59	-8.13
60	-7.92
61	-7.07
62	-7.81
63	-8.55
64	-8.17
65	-8.08
66	-7.4
67	-7.4
68	-7.32
69	-7.2
70	-6.78
71	-6.54
72	-7.74
73	-7.84
74	-7.38
75	-7.16
76	-6.7
77	-6.7
78	-6.52
79	-6.45
80	-5.51
81	-5.59
82	-5.96
83	-5.95
84	-5.93
85	-5.93
86	-6.07

87	-6.02
88	-4.28
89	-4.4
90	-4.66
91	-4.33
92	-4.09
93	-4.09
94	-4.42
95	-4.16
96	-2.44
97	-2.58
98	-2.78
99	-2.62
100	-2.53
101	-2.53
102	-1.06
103	-0.9
104	-0.37
105	-0.44
106	-0.51
107	0.15
108	0.33
109	0.34
110	0.34
111	0.7
112	1.35
113	1.66
114	1.82
115	2.08
116	2.13
117	2.5
118	2.5
119	2.7
120	2.95
121	2.91
122	2.9
123	3.25
124	3.33
125	3.59
126	3.59
127	3.59
128	3.58
129	3.67
130	3.65

131	3.48
132	3.26
133	3
134	3
135	3
136	3
137	2.33
138	2.13
139	1.51
140	1.12
141	0.75
142	-0.62
143	-0.93
144	-1.24
145	-3.94
146	-5.47
147	-8.2
148	-10.61
149	-11.91
150	-9.67
151	-9.42
152	-8.47
153	-3.45
154	-2.02
155	0.05
156	1.81
157	2.82
158	4.79
159	5.07
160	6.63
161	6.63
162	7.49
163	8.29
164	9.22
165	9.41
166	10.13
167	10.35
168	11.24
169	11.24
170	11.66
171	11.89
172	12.74
173	12.79
174	13.08

175	13.32
176	13.72
177	13.72
178	13.67
179	13.66
180	13.82
181	13.79
182	13.7
183	13.75
184	13.8
185	13.8
186	13.48
187	13.42
188	13.07
189	12.83
190	12.52
191	12.11
192	11.95
193	11.92
194	11.3
195	10.95
196	10.29
197	9.75
198	9.44
199	7.92
200	7.8
201	7.5
202	6.32
203	5.37
204	4.27
205	2.37
206	1.64
207	-1.29
208	-1.79
209	-5.82
210	-5.82
211	-9.48
212	-12.31
213	-10.77
214	-10.54
215	-5.19
216	-4.31
217	-2.28
218	-2.28

219	-0.87
220	-0.16
221	1.28
222	1.39
223	1.8
224	2.29
225	3.07
226	3.07
227	3.68
228	3.85
229	4
230	4.05
231	4.33
232	4.38
233	4.44
234	4.44
235	4.01
236	3.95
237	3.47
238	3.25
239	2.81
240	2.58
241	2.42
242	2.12
243	2.09
244	1.98
245	1.43
246	1.2
247	0.95
248	0.64
249	0.52
250	0.98
251	1
252	0.83
253	0.2
254	-0.5
255	-1.26
256	-1.74
257	-1.89
258	-2.11
259	-2.45
260	-3.7
261	-3.7
262	-5.19

263	-5.99
264	-6.83
265	-6.92
266	-6.79
267	-7.16
268	-7.91
269	-7.91
270	-9.33
271	-9.94
272	-12.57
273	-12.75
274	-13.08
275	-13.38
276	-13.9
277	-15.51
278	-16.44
279	-16.44
280	-17.28
281	-17.42
282	-18.04
283	-16.75
284	-15.27
285	-14.92
286	-14.8
287	-14.8
288	-18.42
289	-18.47
290	-18.55
291	-18.18
292	-17.92
293	-14.34
294	-13.97
295	-14.55
296	-17.41
297	-16.61
298	-15.62
299	-13.08
300	-11.89
301	-15.53
302	-15.02
303	-11.02
304	-11.02
305	-11.5
306	-11.85

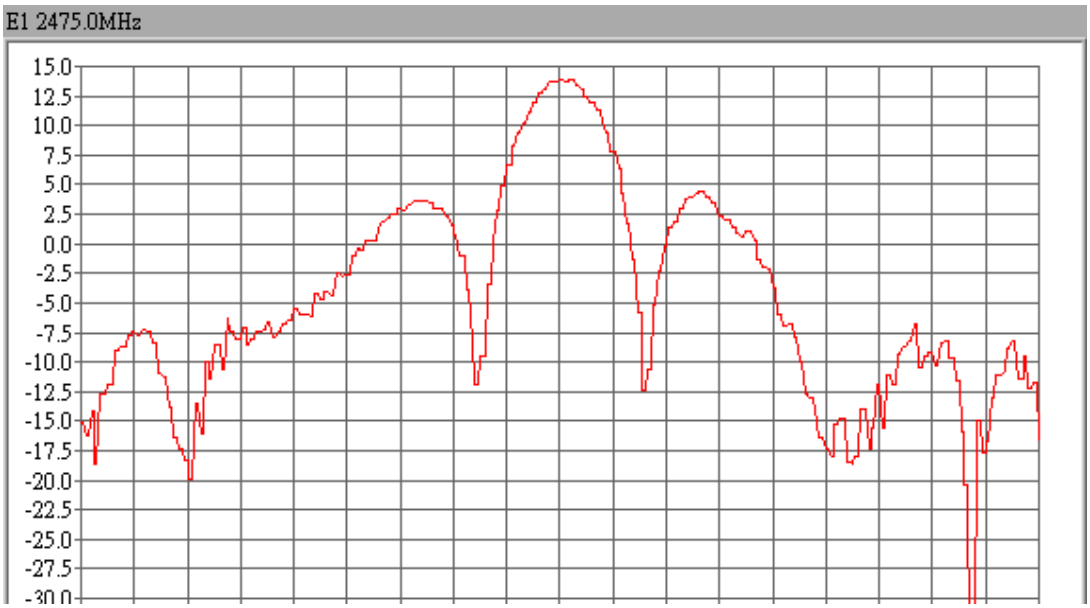
307	-9.78
308	-9.38
309	-8.76
310	-8.6
311	-8.23
312	-8.23
313	-7.27
314	-6.85
315	-10.39
316	-10.37
317	-9.48
318	-9.36
319	-9.18
320	-9.18
321	-10.1
322	-10.29
323	-8.35
324	-8.33
325	-8.26
326	-9.07
327	-9.73
328	-9.73
329	-11.58
330	-12.12
331	-15.94
332	-17.88
333	-20.46
334	-30.86
335	-34.7
336	-34.39
337	-14.9
338	-15.57
339	-17.71
340	-17.18
341	-16.68
342	-13.78
343	-12.99
344	-11.17
345	-11.17
346	-11.05
347	-10.85
348	-9.57
349	-8.86
350	-8.23

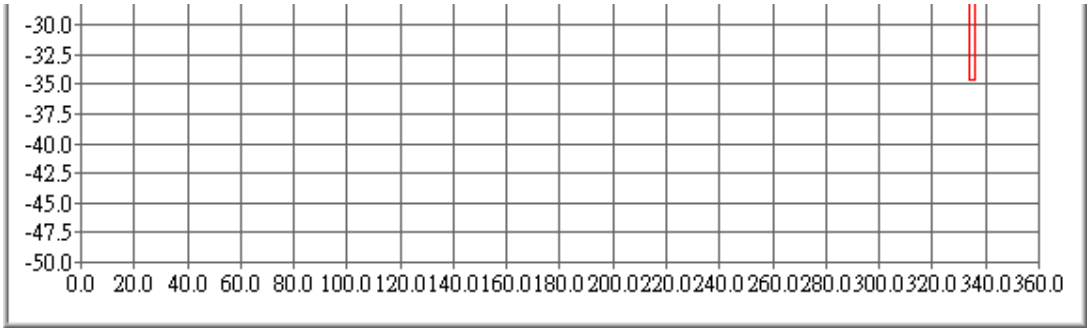
351	-8.45
352	-11.35
353	-11.35
354	-10.34
355	-9.43
356	-11.64
357	-12.16
358	-11.77
359	-13.03

PA-23225 H-plane 2D Pattern @2475.0MHz

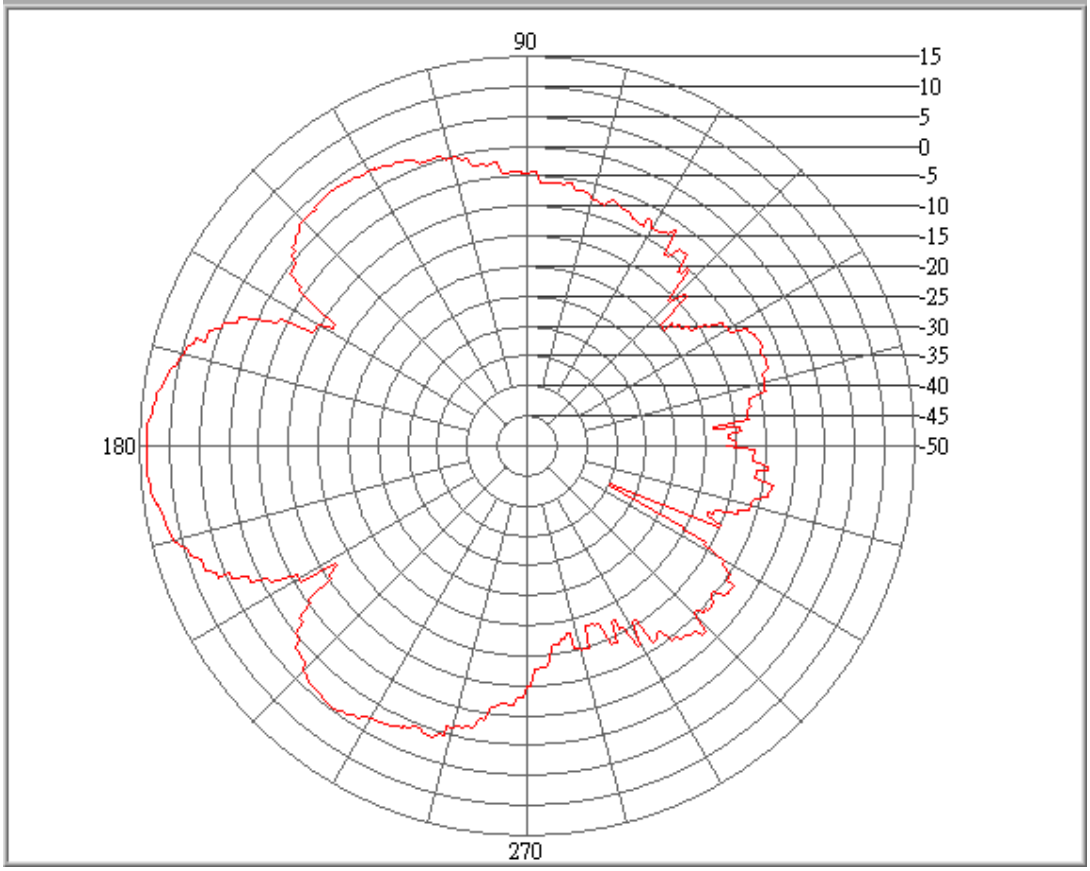
Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	13.82
Max Gain@Angle (degree)	179.91
Min Gain (dBi)	-34.7
Min Gain@Angle (degree)	334.24
Average Gain (dBi)	3.73
-3dB Angle L (degree)	-11.82
-3db Angle R (degree)	16.2
HPB (degree)	28.03
FBR (dB)	24.99




-30.0
-32.5
-35.0
-37.5
-40.0
-42.5
-45.0
-47.5
-50.0
0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 220.0 240.0 260.0 280.0 300.0 320.0 340.0 360.0

E1 2475.0MHz


90
180
270
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50

	E1
0.4	-12.8
1	-12.8
2	-14.14
3	-14.63
4	-25.52
5	-23.84
6	-19.48
7	-17.4
8	-15.71
9	-15.71
10	-14.94
11	-14.25
12	-10.33
13	-11.51
14	-12.99
15	-10.36
16	-9.52
17	-9.49
18	-9.11
19	-9.11
20	-9.11
21	-9.04
22	-9
23	-7.26
24	-7.11
25	-7.37
26	-8.24
27	-9.29
28	-10.31
29	-9.83
30	-9.72
31	-11.89
32	-11.81
33	-11.59
34	-11.59
35	-14.54
36	-16.09
37	-18.58
38	-18.81
39	-19.67
40	-21.61
41	-24.76
42	-24.76

43	-23.69
44	-23.37
45	-16.18
46	-16.04
47	-15.37
48	-14.02
49	-12.49
50	-12.49
51	-11.32
52	-11.14
53	-9.53
54	-9.33
55	-8.84
56	-8.55
57	-8.33
58	-8.9
59	-9.02
60	-8.98
61	-8.43
62	-8.24
63	-7.82
64	-8.3
65	-8.63
66	-7.95
67	-7.81
68	-7.76
69	-7.37
70	-7.5
71	-7.67
72	-6.9
73	-6.56
74	-6.38
75	-6.31
76	-6.55
77	-6.62
78	-7.27
79	-7.27
80	-7.39
81	-7.5
82	-6.92
83	-6.78
84	-5.63
85	-5.66
86	-5.81

87	-5.81
88	-5.62
89	-5.5
90	-4.48
91	-4.36
92	-4
93	-4.08
94	-4.23
95	-4.23
96	-2.9
97	-2.57
98	-2.1
99	-2.24
100	-2.65
101	-2.23
102	-1.83
103	-1.47
104	-1.37
105	-1.31
106	-0.56
107	-0.3
108	0.13
109	0.42
110	0.56
111	1.12
112	1.15
113	1.29
114	1.72
115	1.73
116	1.74
117	2.06
118	2.11
119	2.56
120	2.56
121	2.69
122	2.88
123	3.07
124	3.15
125	3.32
126	3.32
127	3.32
128	3.32
129	3.23
130	3.16

131	3.41
132	3.43
133	3.25
134	3.04
135	2.57
136	2.57
137	2.31
138	2.22
139	1.49
140	1.4
141	0.84
142	-0.06
143	-1.4
144	-3.48
145	-4.56
146	-4.56
147	-8.88
148	-9.65
149	-13.57
150	-13.47
151	-13.35
152	-7.61
153	-4.95
154	-0.76
155	-0.33
156	0.22
157	2.13
158	3.14
159	4.12
160	5.58
161	6.09
162	7.63
163	7.63
164	8.02
165	9.07
166	9.65
167	10.05
168	10.83
169	10.95
170	11.7
171	11.7
172	12
173	12.38
174	12.81

175	13
176	13.41
177	13.46
178	13.74
179	13.8
180	13.92
181	13.92
182	14.05
183	14.08
184	13.97
185	13.92
186	13.73
187	13.73
188	13.52
189	13.44
190	13.03
191	12.94
192	12.46
193	12.13
194	11.71
195	11.19
196	10.93
197	10.93
198	9.74
199	9.5
200	8.67
201	8.11
202	7.58
203	6.14
204	5.69
205	5.54
206	3.4
207	2.55
208	1.02
209	-0.71
210	-1.86
211	-7.11
212	-8.17
213	-14.78
214	-14.78
215	-13.47
216	-11.61
217	-6.89
218	-4.78

219	-2.34
220	-2.08
221	-0.6
222	-0.6
223	0.31
224	1.09
225	1.89
226	2.11
227	2.53
228	2.67
229	3.18
230	3.27
231	3.36
232	3.36
233	3.42
234	3.44
235	3.71
236	3.65
237	3.52
238	3.5
239	3.49
240	3.49
241	3.14
242	3.08
243	2.51
244	2.5
245	2.49
246	2.15
247	1.98
248	1.98
249	0.72
250	0.67
251	0.5
252	0.52
253	0.54
254	-0.36
255	-0.74
256	-2.39
257	-2.42
258	-2.57
259	-3.01
260	-3.22
261	-3.4
262	-3.92

263	-4.02
264	-5.47
265	-5.47
266	-5.94
267	-6.66
268	-7.41
269	-7.77
270	-8.96
271	-9.35
272	-11.83
273	-11.83
274	-10.54
275	-9.41
276	-10.65
277	-11.01
278	-12.24
279	-12.38
280	-13.02
281	-14.14
282	-15.55
283	-15.55
284	-14.49
285	-14.41
286	-16.85
287	-17.15
288	-17.98
289	-15.56
290	-13.39
291	-14.83
292	-15.27
293	-15.22
294	-13.68
295	-13.36
296	-12.75
297	-13.12
298	-13.35
299	-10.27
300	-9.92
301	-10.1
302	-11.14
303	-10.69
304	-10.05
305	-9.04
306	-8.6

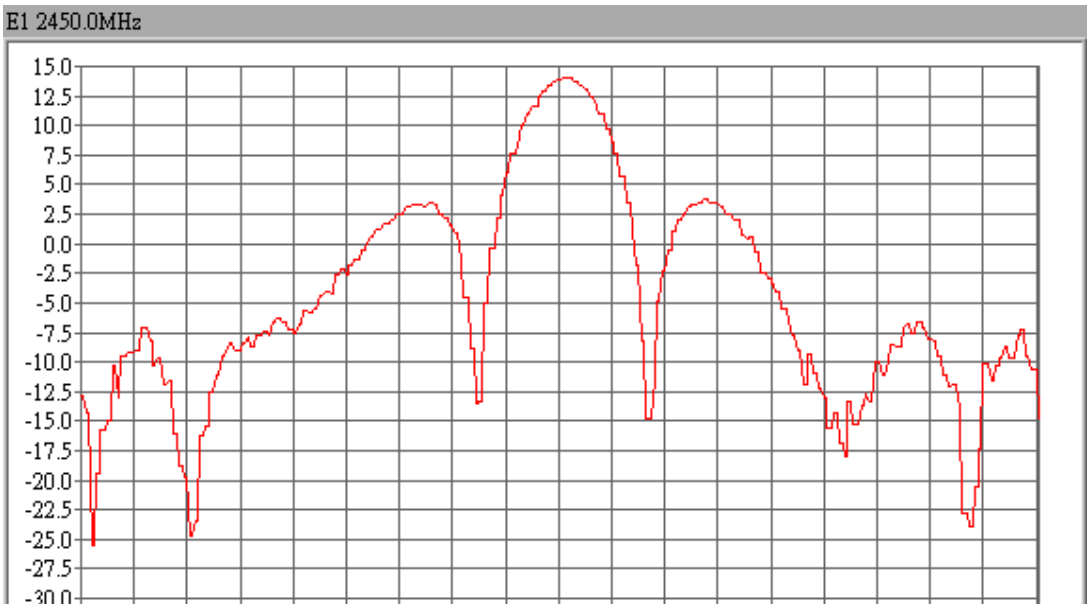
307	-8.72
308	-8.72
309	-8.27
310	-7.09
311	-6.91
312	-6.79
313	-7.46
314	-7.55
315	-6.64
316	-6.64
317	-6.87
318	-7.11
319	-7.84
320	-8.05
321	-8.29
322	-8.52
323	-9.43
324	-9.43
325	-10.51
326	-11.13
327	-12.03
328	-12.08
329	-11.97
330	-12.71
331	-13.82
332	-19.67
333	-22.74
334	-22.74
335	-23.98
336	-23.13
337	-20.48
338	-18.92
339	-17.31
340	-11.97
341	-10.14
342	-10.15
343	-11.56
344	-11.24
345	-10.36
346	-9.99
347	-9.64
348	-8.97
349	-8.74
350	-9.61

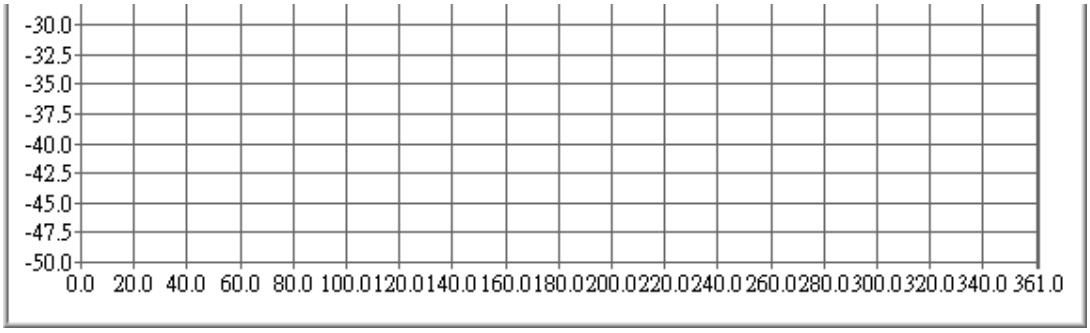
351	-9.61
352	-9.12
353	-7.69
354	-7.47
355	-7.28
356	-9.16
357	-9.53
358	-10.56
359	-10.56

PA-23225 H-plane 2D Pattern @2450.0MHz

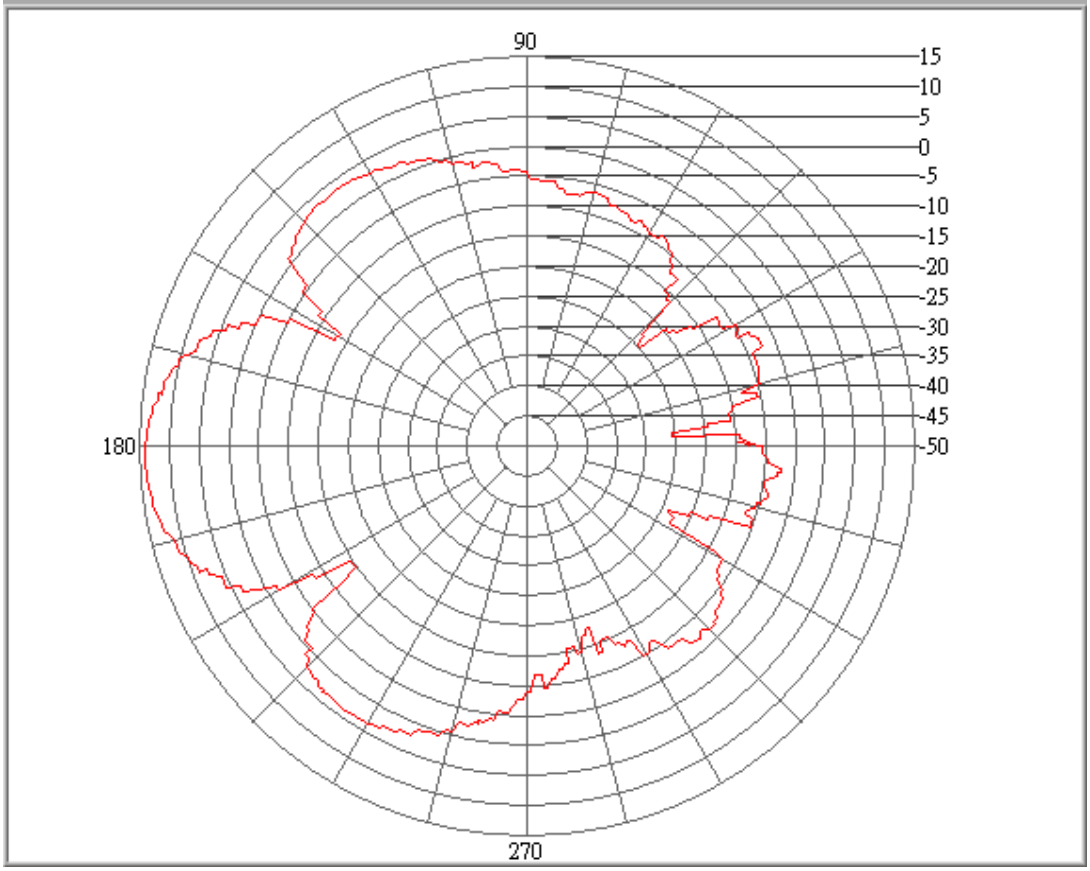
Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	14.08
Max Gain@Angle (degree)	182.19
Min Gain (dBi)	-25.52
Min Gain@Angle (degree)	3.87
Average Gain (dBi)	3.8
-3dB Angle L (degree)	-11.82
-3db Angle R (degree)	12.7
HPB (degree)	24.53
FBR (dB)	23.73




-30.0
-32.5
-35.0
-37.5
-40.0
-42.5
-45.0
-47.5
-50.0
0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 220.0 240.0 260.0 280.0 300.0 320.0 340.0 361.0

E1 2450.0MHz


90
180
270
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50

	E1
0.4	-15.17
1	-15.17
2	-16.36
3	-17.08
4	-37.93
5	-33.95
6	-25.99
7	-20.72
8	-17.47
9	-17.47
10	-12.11
11	-11.88
12	-10.54
13	-10.14
14	-9.45
15	-8.26
16	-7.62
17	-7.88
18	-7.89
19	-7.84
20	-7.66
21	-7.86
22	-8.11
23	-7.95
24	-7.88
25	-9.39
26	-9.42
27	-9.33
28	-9.07
29	-9.75
30	-10.28
31	-10.65
32	-10.71
33	-14.32
34	-14.32
35	-15.57
36	-17.41
37	-15.05
38	-14.03
39	-22.33
40	-24.53
41	-37.19
42	-29.48

43	-18.52
44	-18.52
45	-18.72
46	-18.76
47	-17.51
48	-15.64
49	-10.58
50	-11.3
51	-11.93
52	-11.93
53	-12.02
54	-12
55	-11.58
56	-10.84
57	-9.01
58	-8.73
59	-8.51
60	-9.51
61	-9.77
62	-9.73
63	-9.17
64	-9.05
65	-8.79
66	-8.97
67	-9.09
68	-8.43
69	-8.31
70	-8.37
71	-8.7
72	-8.28
73	-7.7
74	-7.47
75	-7.36
76	-7.21
77	-7.16
78	-6.77
79	-6.77
80	-7.25
81	-7.65
82	-7.85
83	-7.89
84	-6.44
85	-6.04
86	-4.71

87	-4.71
88	-4.75
89	-4.77
90	-4.02
91	-3.91
92	-3.22
93	-3.34
94	-3.61
95	-3.61
96	-2.91
97	-2.65
98	-3.4
99	-3.3
100	-2.6
101	-2.08
102	-1.4
103	-0.65
104	-0.37
105	-0.37
106	0.14
107	0.37
108	0.87
109	0.73
110	0.62
111	1.84
112	2.05
113	2
114	1.56
115	1.68
116	1.87
117	2.22
118	2.39
119	2.61
120	2.61
121	2.82
122	3.3
123	3.14
124	3.03
125	3.08
126	3.1
127	3.31
128	3.31
129	3.26
130	3.2

131	3.28
132	3.31
133	2.62
134	2.54
135	2.17
136	1.52
137	0.7
138	0.7
139	0.59
140	0.56
141	-1.75
142	-2.11
143	-4.05
144	-4.81
145	-5.71
146	-5.71
147	-11.36
148	-11.69
149	-8.04
150	-6.71
151	-4.32
152	-2.18
153	-0.81
154	-0.81
155	1.9
156	2.26
157	4.16
158	4.9
159	5.83
160	7.04
161	7.51
162	8.79
163	8.82
164	9.09
165	10.06
166	10.37
167	10.74
168	11.35
169	11.6
170	12.26
171	12.36
172	12.85
173	12.85
174	13.09

175	13.26
176	13.53
177	13.58
178	13.89
179	13.9
180	13.94
181	13.94
182	13.89
183	13.87
184	13.72
185	13.7
186	13.55
187	13.42
188	13.2
189	13.2
190	12.95
191	12.87
192	12.11
193	12.01
194	11.37
195	11
196	10.49
197	9.8
198	9.53
199	9.53
200	8.13
201	7.76
202	6.53
203	5.57
204	4.61
205	3.31
206	2.86
207	0.09
208	0.09
209	-1.19
210	-4.28
211	-8.38
212	-11.24
213	-21.24
214	-21.48
215	-10.32
216	-10.32
217	-8.02
218	-5.5

219	-4.01
220	-3.52
221	-1.4
222	-1.15
223	0.33
224	0.33
225	0.58
226	0.82
227	1.33
228	1.48
229	1.83
230	1.88
231	2.09
232	2.45
233	2.88
234	2.88
235	2.42
236	2.39
237	2.58
238	2.66
239	2.85
240	2.37
241	2.07
242	2.07
243	2.21
244	1.92
245	0.62
246	0.46
247	0.25
248	-0.4
249	-0.64
250	-0.64
251	-0.8
252	-1.02
253	-1.76
254	-1.85
255	-1.94
256	-2.99
257	-3.26
258	-3.6
259	-3.6
260	-3.75
261	-3.99
262	-4.48

263	-4.76
264	-5.84
265	-5.94
266	-6.34
267	-6.34
268	-6.94
269	-7.58
270	-7.78
271	-7.86
272	-9.75
273	-9.62
274	-8.8
275	-8.8
276	-10.12
277	-11.02
278	-10.29
279	-10.19
280	-11.09
281	-10.97
282	-10.7
283	-10.7
284	-12.86
285	-13.68
286	-15.08
287	-14.95
288	-13.93
289	-14.05
290	-14.22
291	-13.17
292	-12.7
293	-12.7
294	-11.68
295	-11.42
296	-10.74
297	-9.69
298	-8.86
299	-8.57
300	-8.51
301	-8.47
302	-8.19
303	-7.83
304	-7.13
305	-7.06
306	-7.01

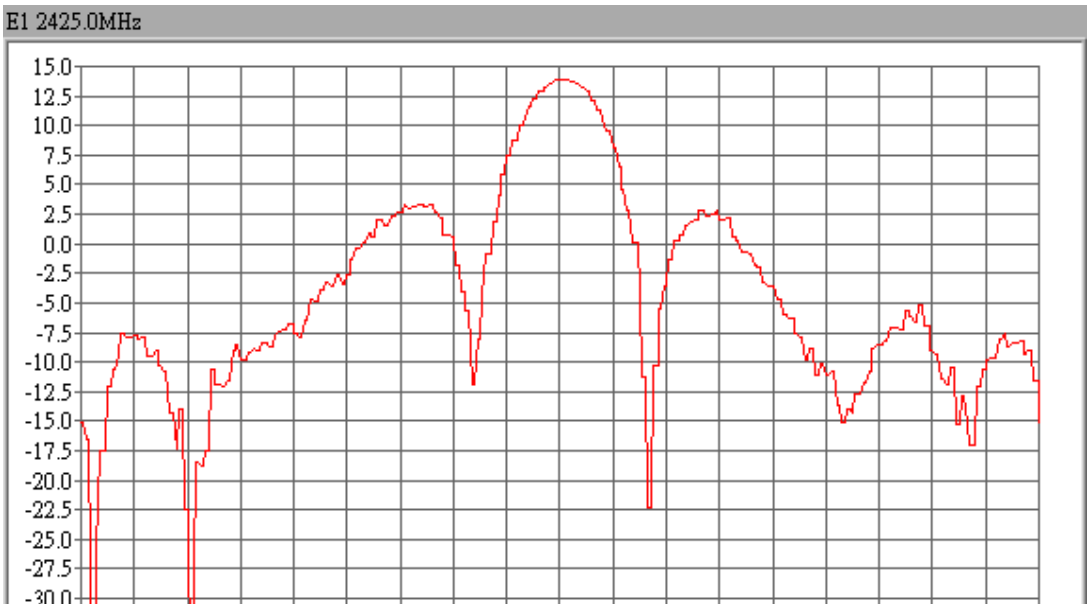
307	-7.11
308	-7.28
309	-6.94
310	-5.73
311	-5.94
312	-6.13
313	-6.48
314	-6.57
315	-5.22
316	-5.48
317	-6.92
318	-6.92
319	-8.03
320	-8.97
321	-9.29
322	-9.37
323	-11.44
324	-11.56
325	-11.9
326	-11.9
327	-10.93
328	-10.44
329	-14.94
330	-15.09
331	-12.78
332	-13.63
333	-15.08
334	-16.43
335	-17.1
336	-17.1
337	-12.01
338	-11.66
339	-10.65
340	-10.18
341	-9.79
342	-9.65
343	-9.62
344	-9.43
345	-7.99
346	-7.85
347	-7.63
348	-8.44
349	-8.71
350	-8.42

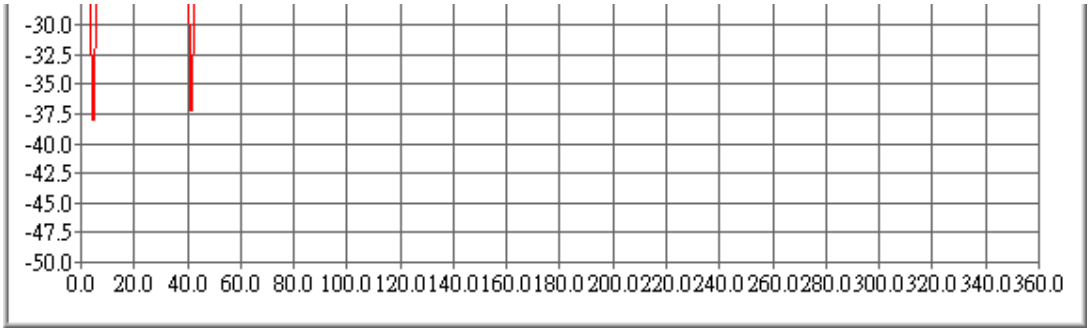
351	-8.42
352	-8.37
353	-8.25
354	-8.85
355	-9.29
356	-9.01
357	-8.98
358	-11.54
359	-11.54

PA-23225 H-plane 2D Pattern @2425.0MHz

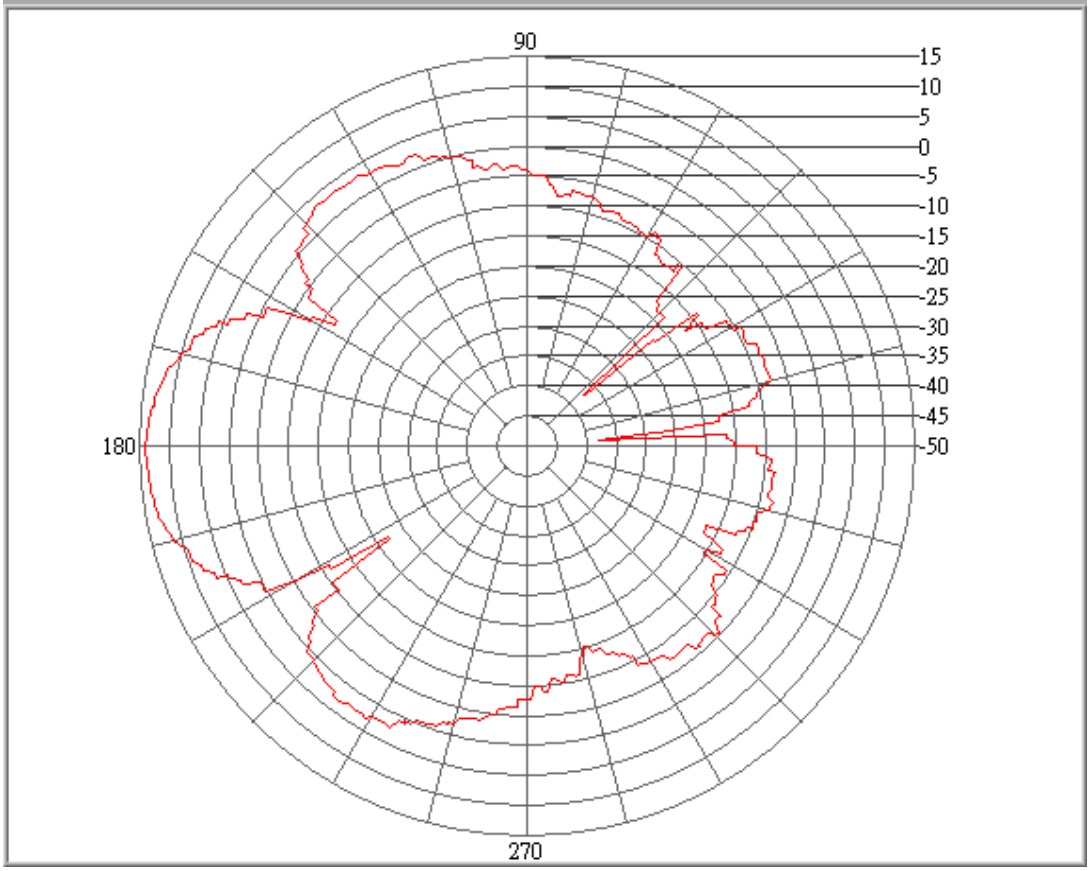
Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	13.94
Max Gain@Angle (degree)	179.65
Min Gain (dBi)	-37.93
Min Gain@Angle (degree)	3.83
Average Gain (dBi)	3.78
-3dB Angle L (degree)	-10.07
-3db Angle R (degree)	16.2
HPB (degree)	26.28
FBR (dB)	21.94




-30.0
-32.5
-35.0
-37.5
-40.0
-42.5
-45.0
-47.5
-50.0
0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 220.0 240.0 260.0 280.0 300.0 320.0 340.0 360.0

E1 2425.0MHz


90
180
270
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50

	E1
0	-8.7
1	-11.85
2	-12.44
3	-13.34
4	-13.34
5	-18.6
6	-19.74
7	-22
8	-24.19
9	-30.84
10	-23.93
11	-16.69
12	-16.69
13	-13.94
14	-13.62
15	-12.27
16	-12.01
17	-11.54
18	-9.75
19	-8.74
20	-8.74
21	-8.56
22	-8.26
23	-6.94
24	-7.15
25	-7.39
26	-9.14
27	-9.67
28	-9.61
29	-8.71
30	-9.22
31	-9.98
32	-9.54
33	-9.33
34	-9.64
35	-9.67
36	-11.16
37	-15.92
38	-14.48
39	-13.3
40	-19.83
41	-21.14
42	-22.54

43	-22.08
44	-20.02
45	-20.02
46	-19.94
47	-19.88
48	-14.74
49	-14.18
50	-13.61
51	-14.17
52	-15.38
53	-15.38
54	-12.28
55	-10.92
56	-12.63
57	-12.55
58	-10.62
59	-10.91
60	-11.48
61	-10.51
62	-9.87
63	-9.87
64	-9.31
65	-9.26
66	-8.93
67	-8.8
68	-8.56
69	-7.89
70	-7.57
71	-7.57
72	-6.59
73	-6.68
74	-6.98
75	-7.39
76	-7.76
77	-7.94
78	-7.99
79	-7.69
80	-7.69
81	-7.28
82	-6.54
83	-6.41
84	-6.34
85	-4.97
86	-4.98

87	-5.33
88	-5.33
89	-4.6
90	-3.74
91	-3.99
92	-4.1
93	-3.23
94	-3.2
95	-3.82
96	-3.69
97	-3.42
98	-3.42
99	-2.73
100	-2.48
101	-2.31
102	-2.16
103	-1.49
104	-0.96
105	-0.43
106	-0.43
107	0.37
108	0.44
109	0.58
110	0.88
111	1.38
112	1.43
113	1.45
114	1.45
115	1.84
116	1.94
117	2.38
118	2.56
119	2.77
120	2.88
121	2.93
122	3.14
123	3.15
124	3.1
125	2.85
126	2.98
127	3.14
128	3.29
129	3.35
130	2.74

131	2.76
132	3.2
133	3.2
134	2.87
135	2.49
136	2.09
137	1.93
138	1.16
139	0.94
140	0.04
141	0.04
142	-1.02
143	-1.63
144	-4.43
145	-4.82
146	-8.05
147	-10.22
148	-16.26
149	-14.21
150	-12.41
151	-12.41
152	-5.68
153	-4.97
154	-1.12
155	-0.26
156	1.23
157	3.04
158	4.07
159	4.07
160	5.63
161	5.84
162	7.08
163	7.6
164	8.37
165	9.14
166	9.56
167	10.46
168	10.51
169	10.7
170	11.42
171	11.75
172	12.16
173	12.5
174	12.63

175	13
176	13
177	13.1
178	13.37
179	13.41
180	13.45
181	13.55
182	13.58
183	13.67
184	13.66
185	13.61
186	13.61
187	13.45
188	13.34
189	13.28
190	13.24
191	12.62
192	12.43
193	12.02
194	12.02
195	11.59
196	11.47
197	10.7
198	10.54
199	9.7
200	9.16
201	8.46
202	8.46
203	7.48
204	7.3
205	5.61
206	5.01
207	3.46
208	1.95
209	0.73
210	-1.36
211	-1.78
212	-2.32
213	-6.04
214	-9.11
215	-13.95
216	-14.83
217	-15.3
218	-9.96

219	-9.28
220	-8.47
221	-4.63
222	-3.82
223	-2.79
224	-2.01
225	-1.66
226	-0.03
227	0.15
228	0.99
229	0.99
230	1.15
231	1.33
232	1.8
233	1.93
234	2.12
235	2.12
236	2.13
237	2.13
238	1.86
239	1.66
240	1.73
241	1.73
242	1.35
243	1.38
244	1.45
245	1.45
246	1.19
247	1.09
248	0.53
249	0.29
250	-0.74
251	-0.87
252	-1.04
253	-0.96
254	-0.93
255	-0.93
256	-2.91
257	-2.81
258	-2.39
259	-2.56
260	-2.77
261	-3.56
262	-3.96

263	-4.34
264	-4.36
265	-4.57
266	-5.3
267	-5.89
268	-6.47
269	-5.81
270	-5.62
271	-7.97
272	-7.97
273	-8.07
274	-8.3
275	-7.75
276	-7.39
277	-9.36
278	-9.59
279	-10.01
280	-9.93
281	-9.66
282	-9.66
283	-10.53
284	-10.99
285	-12.59
286	-12.7
287	-11.1
288	-11.04
289	-10.88
290	-11.73
291	-12.44
292	-12.44
293	-10.88
294	-10.67
295	-12.4
296	-11.84
297	-10.24
298	-9.44
299	-8.81
300	-8.81
301	-8.02
302	-8.02
303	-7.98
304	-8.15
305	-8.35
306	-7.47

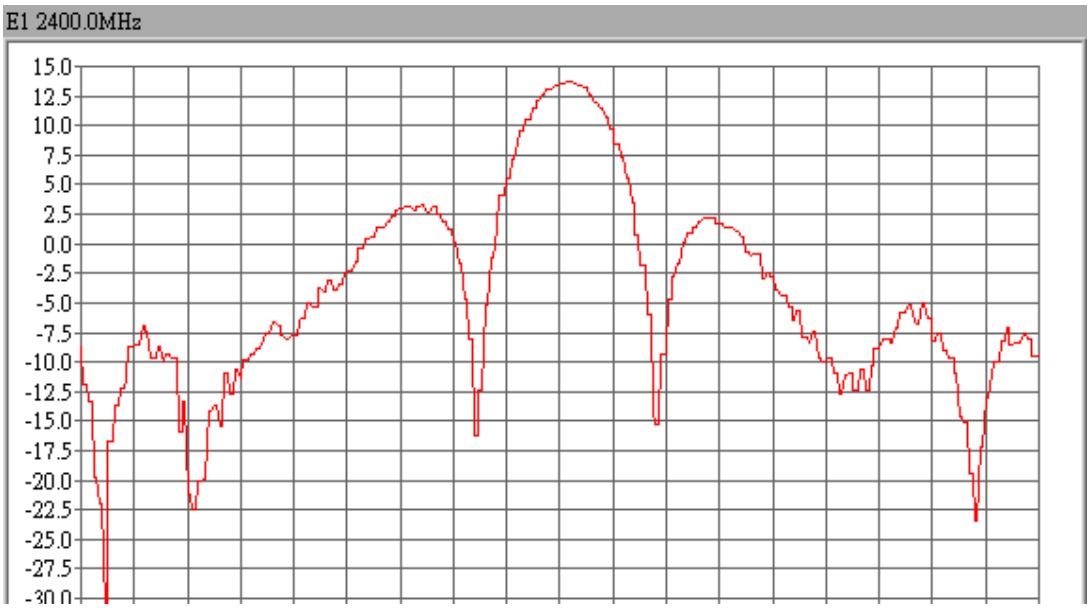
307	-7.1
308	-5.92
309	-5.8
310	-5.7
311	-5.24
312	-5.75
313	-6.44
314	-6.62
315	-6.7
316	-5.08
317	-5.06
318	-6.22
319	-6.22
320	-7.19
321	-8.23
322	-7.68
323	-7.51
324	-9.08
325	-9.17
326	-9.6
327	-9.6
328	-10.35
329	-11.01
330	-14.05
331	-14.68
332	-15.03
333	-16.19
334	-19.48
335	-19.48
336	-22.06
337	-23.4
338	-17.49
339	-16.72
340	-12.99
341	-12.26
342	-11.03
343	-10.41
344	-10
345	-10
346	-8.22
347	-8.05
348	-7.02
349	-7.65
350	-8.48

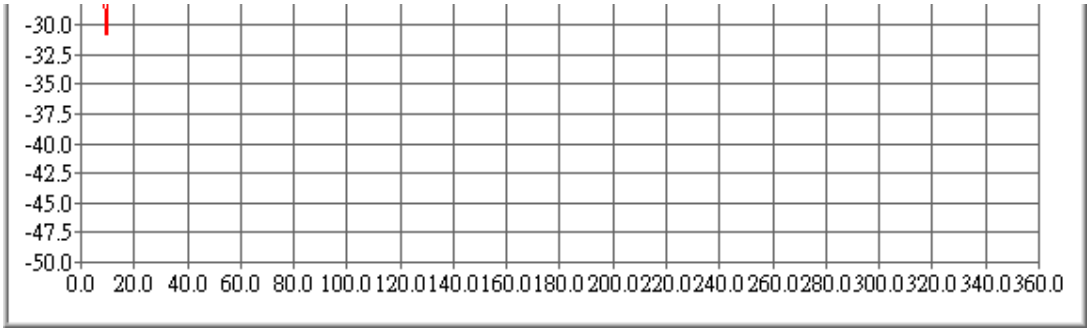
351	-8.44
352	-8.43
353	-8.43
354	-7.65
355	-7.71
356	-7.98
357	-8.71
358	-9.54
359	-9.52

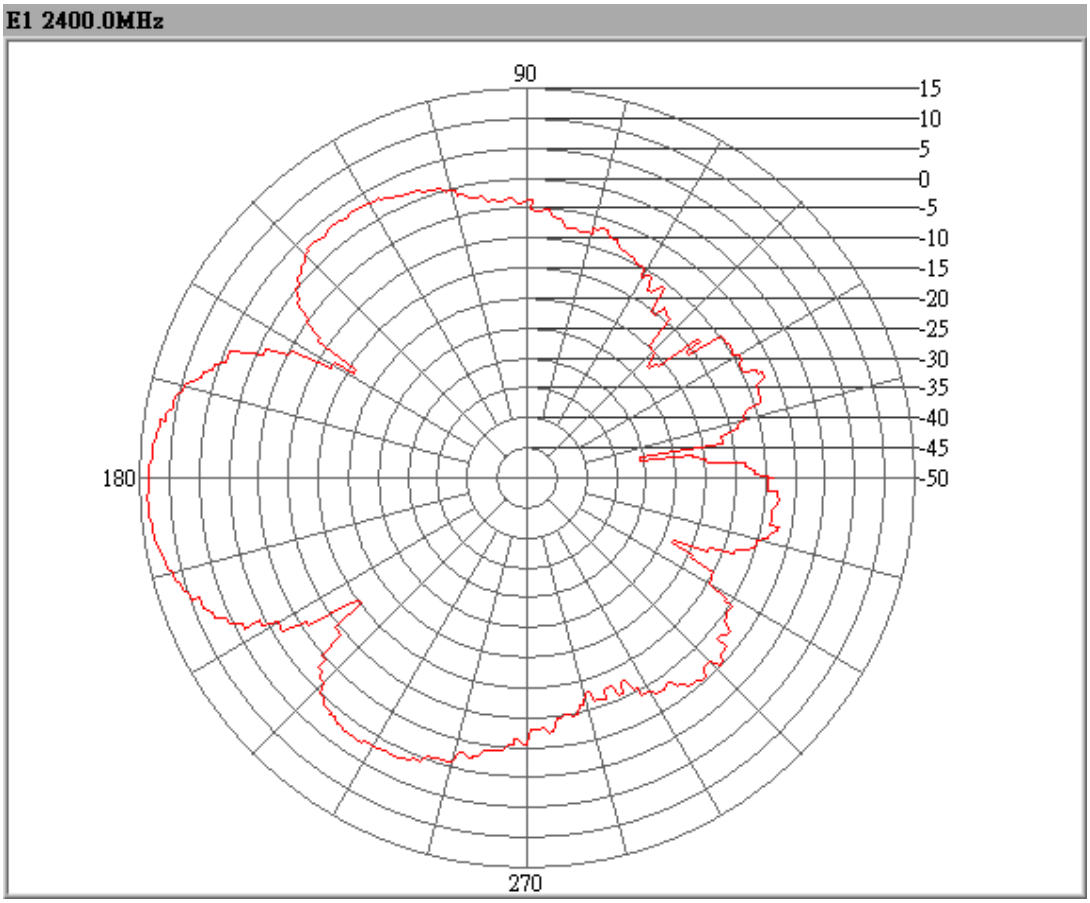
PA-23225 H-plane 2D Pattern @2400.0MHz

Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	13.67
Max Gain@Angle (degree)	182.97
Min Gain (dBi)	-30.84
Min Gain@Angle (degree)	8.67
Average Gain (dBi)	3.64
-3dB Angle L (degree)	-11.82
-3db Angle R (degree)	16.2
HPB (degree)	28.03
FBR (dB)	20.69




-30.0
-32.5
-35.0
-37.5
-40.0
-42.5
-45.0
-47.5
-50.0
0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 220.0 240.0 260.0 280.0 300.0 320.0 340.0 360.0


E1 2400.0MHz
90
180
270
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50

	E1
0	-9.59
1	-9.96
2	-10.58
3	-13.12
4	-14.57
5	-14.57
6	-16.84
7	-18.16
8	-22.4
9	-20.16
10	-17.88
11	-14.28
12	-13.1
13	-13.18
14	-15.59
15	-14.06
16	-10.52
17	-9.28
18	-8.46
19	-6.95
20	-6.81
21	-7.34
22	-7.34
23	-7.96
24	-8.82
25	-9.35
26	-9.57
27	-7.69
28	-7.9
29	-8.89
30	-8.89
31	-9.38
32	-9.7
33	-14.06
34	-14.41
35	-15.13
36	-15.56
37	-16.45
38	-16.45
39	-25.48
40	-28.82
41	-25.39
42	-26.61

43	-35.61
44	-32.02
45	-26.53
46	-22.17
47	-20
48	-20
49	-14.52
50	-14.65
51	-15.22
52	-14.07
53	-12.71
54	-10.23
55	-9.34
56	-9.34
57	-10.09
58	-10.05
59	-9.94
60	-9.99
61	-10.05
62	-9.02
63	-8.73
64	-7.51
65	-7.51
66	-7.83
67	-8.7
68	-8.33
69	-8.03
70	-6.61
71	-6.34
72	-7.72
73	-7.72
74	-6.77
75	-5.49
76	-6.34
77	-6.75
78	-6.47
79	-6.4
80	-5.93
81	-5.93
82	-5.28
83	-4.73
84	-4.22
85	-4.08
86	-3.53

87	-3.65
88	-4.04
89	-3.23
90	-2.39
91	-2.39
92	-2.61
93	-2.53
94	-1.28
95	-1.34
96	-1.45
97	-1.09
98	-0.85
99	-0.85
100	-0.99
101	-0.94
102	-0.41
103	-0.15
104	0.25
105	0.66
106	0.84
107	1.46
108	1.47
109	1.61
110	2.03
111	2.1
112	2.14
113	2.79
114	2.92
115	3.21
116	3.21
117	3.26
118	3.36
119	3.4
120	3.43
121	3.65
122	3.64
123	3.3
124	3.3
125	3.49
126	3.68
127	3.35
128	3.28
129	3.04
130	2.87

131	2.42
132	2.42
133	2.31
134	2.27
135	1.65
136	1.52
137	0.42
138	-0.3
139	-1.41
140	-2.48
141	-3.08
142	-3.08
143	-7.89
144	-8.67
145	-14.19
146	-14.47
147	-14.88
148	-9.94
149	-7.2
150	-7.2
151	-2.07
152	-1.31
153	1.55
154	2.6
155	3.71
156	5.3
157	5.65
158	7.38
159	7.38
160	7.84
161	8.56
162	9.35
163	9.81
164	10.71
165	10.82
166	11.7
167	11.7
168	12.02
169	12.36
170	12.92
171	13.07
172	13.6
173	13.69
174	14.03

175	14.03
176	14.14
177	14.21
178	14.42
179	14.45
180	14.46
181	14.47
182	14.5
183	14.47
184	14.44
185	14.44
186	14.19
187	14.16
188	13.8
189	13.69
190	13.41
191	13
192	12.74
193	12.74
194	11.93
195	11.79
196	11.22
197	10.71
198	10.22
199	9.41
200	9.22
201	9.08
202	7.73
203	7.05
204	6.11
205	4.86
206	4.35
207	1.64
208	1.64
209	0.81
210	-1.11
211	-3.67
212	-5.2
213	-9.89
214	-10.61
215	-14.2
216	-14.2
217	-11.75
218	-8.56

219	-6.37
220	-5.51
221	-3.3
222	-2.95
223	-1.64
224	-1.64
225	-0.85
226	-0.44
227	0.26
228	0.36
229	1.08
230	1.26
231	1.56
232	1.56
233	1.89
234	1.94
235	2.11
236	2.16
237	2.28
238	2.25
239	2.22
240	2.22
241	1.99
242	1.89
243	1.39
244	1.24
245	1.02
246	0.57
247	0.33
248	-0.48
249	-0.59
250	-0.65
251	-0.96
252	-0.87
253	-0.73
254	-1.26
255	-1.5
256	-1.5
257	-1.5
258	-1.68
259	-2.24
260	-2.53
261	-2.8
262	-3.52

263	-3.68
264	-4.22
265	-4.47
266	-5.4
267	-5.4
268	-5.82
269	-6.01
270	-5.8
271	-5.88
272	-7.25
273	-7.4
274	-7.69
275	-7.69
276	-7.08
277	-6.91
278	-6.2
279	-6.51
280	-7.7
281	-7.66
282	-7.61
283	-7.61
284	-8.84
285	-8.82
286	-8.65
287	-9.05
288	-9.67
289	-9.13
290	-8.88
291	-8.88
292	-8.89
293	-8.58
294	-7.74
295	-8.15
296	-8.57
297	-8.14
298	-8.05
299	-8.02
300	-7.86
301	-7.07
302	-5.9
303	-5.6
304	-5.43
305	-6.15
306	-6.18

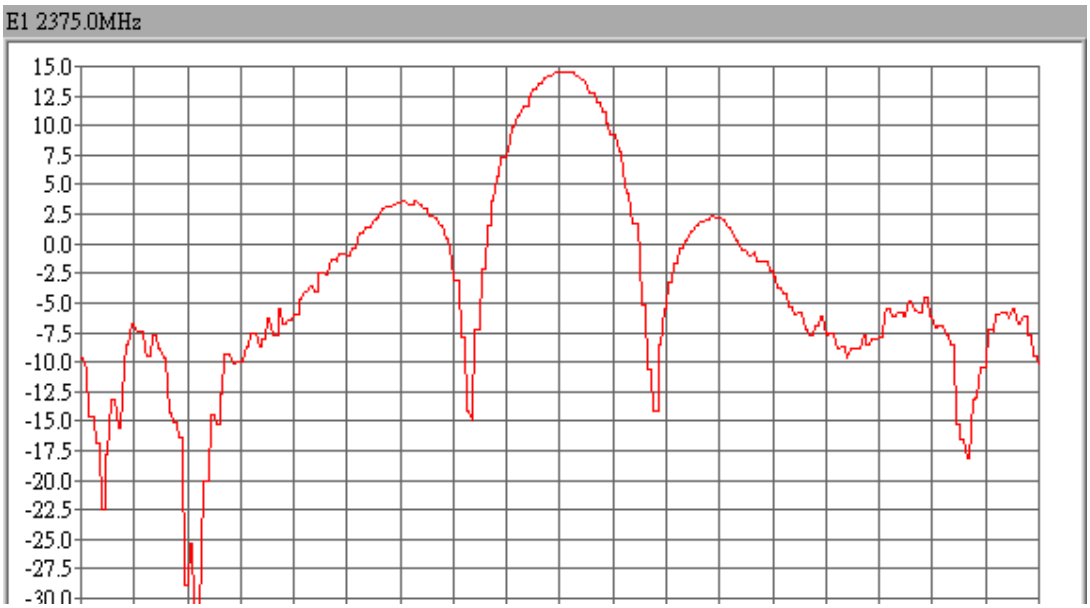
307	-5.84
308	-5.84
309	-6.04
310	-6.2
311	-5.08
312	-4.83
313	-5.68
314	-5.71
315	-5.83
316	-5.83
317	-4.91
318	-4.53
319	-6.21
320	-6.34
321	-7.02
322	-6.96
323	-6.88
324	-6.88
325	-7.61
326	-7.73
327	-8.48
328	-10.52
329	-15.22
330	-16.02
331	-16.58
332	-16.58
333	-18.06
334	-17.13
335	-13.23
336	-13.1
337	-12.96
338	-10.95
339	-10.51
340	-10.23
341	-7.32
342	-7.36
343	-7.43
344	-6.5
345	-6
346	-5.85
347	-5.84
348	-5.97
349	-6.31
350	-5.86

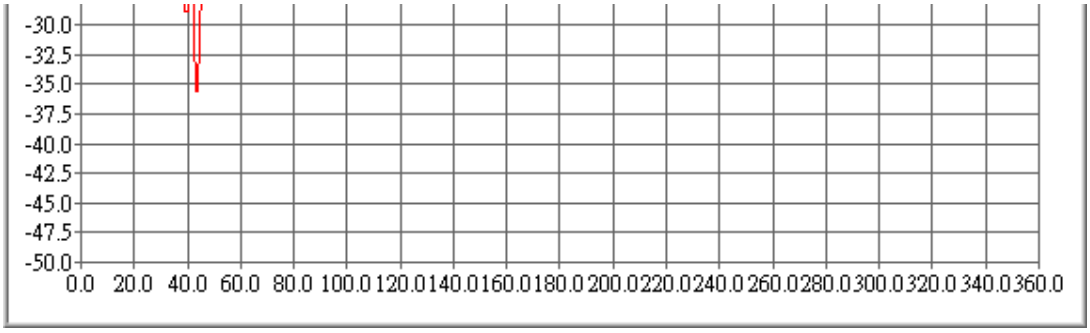
351	-5.56
352	-6.64
353	-6.67
354	-6.08
355	-6.08
356	-6.94
357	-7.67
358	-9.26
359	-9.57

PA-23225 H-plane 2D Pattern @2375.0MHz

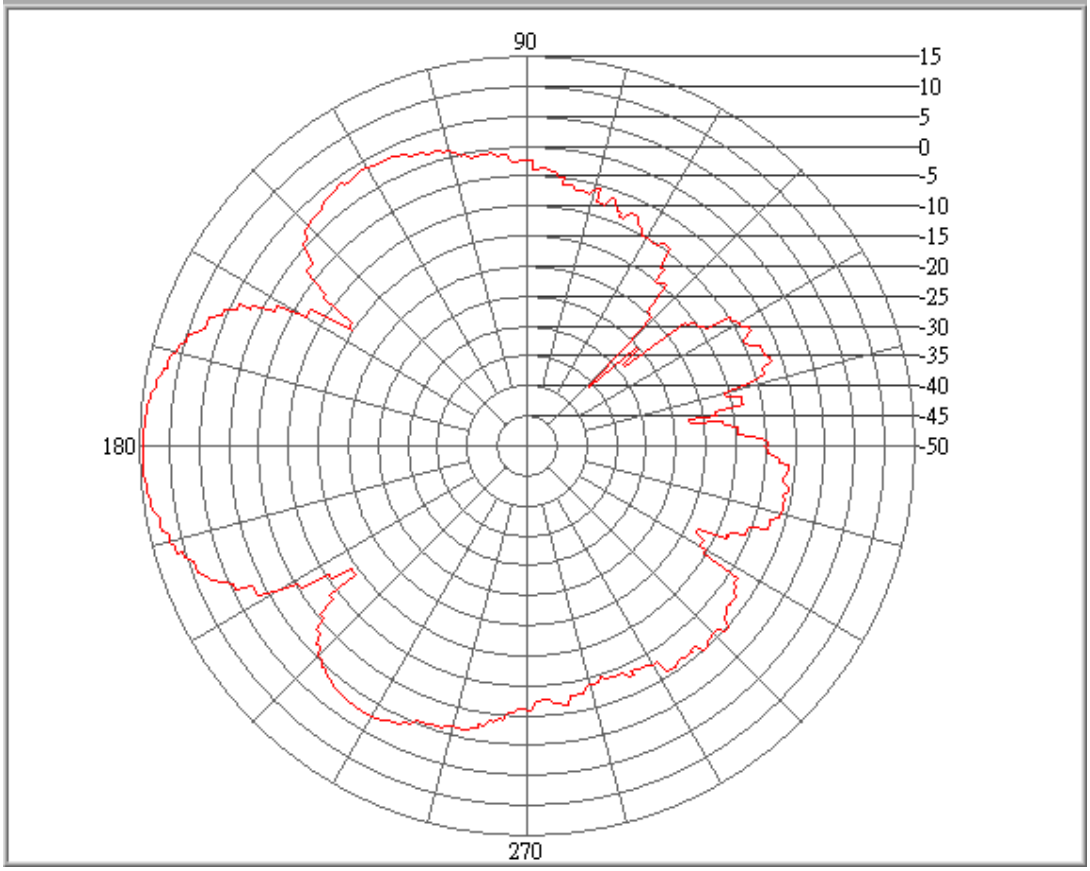
Date / Time : 2009117 / 19:35
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	E1
Max Gain (dBi)	14.5
Max Gain@Angle (degree)	181.67
Min Gain (dBi)	-35.61
Min Gain@Angle (degree)	42.77
Average Gain (dBi)	4.44
-3dB Angle L (degree)	-15.33
-3db Angle R (degree)	14.45
HPB (degree)	29.78
FBR (dB)	20.5




-30.0
-32.5
-35.0
-37.5
-40.0
-42.5
-45.0
-47.5
-50.0
0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0 160.0 180.0 200.0 220.0 240.0 260.0 280.0 300.0 320.0 340.0 360.0

E1 2375.0MHz


90
180
270
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50

	E1
0.1	-8.19
1	-11.15
2	-11.17
3	-11.32
4	-11.19
5	-10.97
6	-15.64
7	-18.42
8	-18.42
9	-18.23
10	-18.7
11	-21.12
12	-20.45
13	-19.54
14	-18.8
15	-18.52
16	-18.52
17	-14.97
18	-14.44
19	-13.21
20	-12.31
21	-11.6
22	-9.6
23	-9.06
24	-8.61
25	-8.61
26	-8.97
27	-9.62
28	-9.89
29	-10.02
30	-10.93
31	-10.98
32	-10.87
33	-10.87
34	-10.89
35	-10.89
36	-12
37	-12.22
38	-15.15
39	-15.24
40	-15.45
41	-15.45
42	-16.38

43	-16.77
44	-19.09
45	-19.88
46	-25.35
47	-26.1
48	-27.36
49	-27.36
50	-20.33
51	-18.3
52	-15.7
53	-15.03
54	-12.73
55	-13.58
56	-14.34
57	-13.12
58	-12.84
59	-12.81
60	-12.52
61	-12.54
62	-12.57
63	-11.3
64	-10.66
65	-12.86
66	-13.1
67	-12.84
68	-11.74
69	-10.83
70	-9.84
71	-9.33
72	-9.15
73	-8.41
74	-8.4
75	-8.27
76	-7.91
77	-7.25
78	-6.59
79	-7.05
80	-7.17
81	-7.02
82	-7
83	-6.94
84	-6.94
85	-6.68
86	-6.49

87	-5.03
88	-4.87
89	-5.52
90	-5.22
91	-4.64
92	-4.64
93	-3.96
94	-3.73
95	-2.9
96	-2.85
97	-2.58
98	-2.71
99	-2.92
100	-2.25
101	-1.87
102	-1.87
103	-1.49
104	-1.53
105	-1.67
106	-1.12
107	-0.41
108	0.12
109	0.32
110	0.33
111	0.59
112	0.62
113	0.69
114	0.6
115	0.54
116	1.28
117	1.45
118	1.81
119	1.81
120	1.91
121	2.11
122	2.04
123	2
124	1.97
125	1.96
126	1.84
127	1.84
128	1.77
129	1.71
130	1.2

131	1.03
132	0.34
133	0.32
134	0.21
135	-0.24
136	-0.99
137	-0.99
138	-1.79
139	-1.99
140	-3.95
141	-4.52
142	-6.85
143	-8.63
144	-10.53
145	-10.53
146	-18.89
147	-20.26
148	-13.89
149	-11.88
150	-6.25
151	-4.13
152	-2.09
153	0.19
154	0.85
155	0.99
156	2.89
157	3.58
158	4.76
159	5.7
160	6.22
161	7.73
162	7.83
163	8.03
164	8.8
165	9.3
166	9.77
167	10.36
168	10.53
169	11.19
170	11.19
171	11.34
172	11.65
173	11.99
174	12.27

175	12.61
176	12.69
177	12.93
178	12.97
179	13.09
180	13.09
181	13.23
182	13.31
183	13.19
184	13.17
185	13.11
186	13.04
187	12.9
188	12.9
189	12.7
190	12.61
191	12.11
192	12.06
193	11.66
194	11.41
195	11.03
196	10.5
197	10.23
198	10.23
199	9.32
200	9.13
201	8.39
202	7.76
203	7.04
204	5.9
205	5.46
206	5.44
207	3.6
208	2.95
209	1.42
210	0.19
211	-0.77
212	-3.32
213	-3.88
214	-9.29
215	-9.29
216	-11.18
217	-15.25
218	-13.14

219	-11.62
220	-9.97
221	-9.65
222	-5.9
223	-5.61
224	-4.32
225	-4.32
226	-3.6
227	-3.13
228	-2.32
229	-2.19
230	-0.97
231	-0.93
232	-0.81
233	-0.47
234	-0.13
235	-0.13
236	0.45
237	0.49
238	0.34
239	0.23
240	0.02
241	0.31
242	0.51
243	0.51
244	-0.84
245	-0.91
246	-1.36
247	-1.55
248	-1.88
249	-1.48
250	-1.21
251	-2.61
252	-2.83
253	-2.93
254	-3.43
255	-3.41
256	-3.39
257	-3.45
258	-3.47
259	-4.13
260	-4.13
261	-4.15
262	-4.19

263	-4.89
264	-5.4
265	-6.35
266	-6.51
267	-6.38
268	-6.38
269	-6.33
270	-6.24
271	-6.81
272	-7.14
273	-8.44
274	-8.61
275	-10.16
276	-9.8
277	-8.82
278	-8.82
279	-9.14
280	-9.27
281	-11.23
282	-11.04
283	-8.95
284	-9.47
285	-10.38
286	-9.82
287	-9.45
288	-9.45
289	-8.37
290	-8.32
291	-8.02
292	-8.27
293	-8.58
294	-9.91
295	-10.42
296	-10.41
297	-9.5
298	-9.28
299	-8.56
300	-8.97
301	-9.4
302	-8.72
303	-8.48
304	-7.17
305	-7.16
306	-6.76

307	-5.68
308	-6.57
309	-7.36
310	-6.03
311	-5.65
312	-5.66
313	-5.77
314	-6.44
315	-6.44
316	-6.54
317	-6.63
318	-5.88
319	-5.67
320	-6.79
321	-6.79
322	-6.83
323	-6.83
324	-7.33
325	-7.67
326	-9.33
327	-9.6
328	-11.07
329	-11.12
330	-11.25
331	-11.48
332	-11.7
333	-11.7
334	-17.11
335	-16.99
336	-13
337	-13.85
338	-15.39
339	-12.85
340	-11.28
341	-11.28
342	-11.31
343	-11.08
344	-9.47
345	-8.87
346	-7.85
347	-7.45
348	-7.2
349	-7.97
350	-8.08

351	-7.91
352	-6.93
353	-6.67
354	-6.27
355	-6.79
356	-7.07
357	-8.27
358	-8.36
359	-8.04

	E1
0	-10.96
1	-11.05
2	-11.11
3	-10.4
4	-10.34
5	-10.1
6	-9.1
7	-10.61
8	-12.19
9	-11.29
10	-10.95
11	-9.33
12	-9.2
13	-8.27
14	-8.27
15	-8.83
16	-9.39
17	-9.56
18	-9.62
19	-10.93
20	-10.57
21	-8.36
22	-8.36
23	-9.73
24	-10.93
25	-8.59
26	-7.94
27	-8.69
28	-8.83
29	-9.54
30	-9.25
31	-8.92
32	-8.92
33	-9.85
34	-10.01
35	-11.27
36	-11.83
37	-13.27
38	-13.04
39	-12.85
40	-11.41
41	-10.98
42	-10.97

43	-10.36
44	-10.58
45	-11.15
46	-9.9
47	-8.97
48	-8.2
49	-8.06
50	-8.03
51	-7.86
52	-7.08
53	-6.18
54	-5.66
55	-5.43
56	-6.58
57	-6.65
58	-6.44
59	-5.81
60	-6.57
61	-7.21
62	-6.29
63	-6.09
64	-6.68
65	-6.84
66	-7.6
67	-7.6
68	-7.62
69	-7.63
70	-7.41
71	-7.36
72	-7.14
73	-7.37
74	-8.4
75	-8.18
76	-7.88
77	-7.88
78	-7.34
79	-7.25
80	-6.68
81	-6.71
82	-6.8
83	-5.98
84	-5.26
85	-5.26
86	-4.36

87	-4.25
88	-5.04
89	-4.91
90	-4.53
91	-4.31
92	-4.09
93	-2.64
94	-2.29
95	-2.32
96	-2.7
97	-2.5
98	-2.09
99	-1.71
100	-1.51
101	-1.4
102	-1.39
103	-1.36
104	-1.22
105	-0.56
106	0.26
107	0.1
108	0.03
109	0.69
110	0.74
111	1.43
112	1.43
113	1.71
114	2.01
115	2.68
116	2.88
117	3.33
118	3.32
119	3.29
120	3.29
121	3.37
122	3.42
123	3.74
124	3.78
125	4.38
126	4.4
127	4.45
128	4.36
129	4.26
130	4.26

131	4.19
132	4.18
133	4.21
134	4.21
135	4.21
136	3.67
137	3.26
138	3.04
139	3
140	2.95
141	2.5
142	2.14
143	1.66
144	0.67
145	0.25
146	-2.96
147	-2.98
148	-4.1
149	-6.8
150	-9.96
151	-12.55
152	-12.4
153	-12.36
154	-4.46
155	-4.46
156	-2.92
157	0.6
158	1.86
159	2.78
160	4.27
161	4.62
162	6.57
163	6.91
164	8
165	8
166	8.87
167	9.32
168	10.32
169	10.48
170	11.48
171	11.61
172	11.89
173	11.89
174	12.39

175	12.56
176	12.92
177	12.93
178	12.98
179	13.07
180	13.19
181	13.23
182	13.24
183	13.24
184	13.22
185	13.18
186	13.08
187	12.88
188	12.71
189	12.25
190	12.15
191	12.11
192	11.61
193	11.4
194	10.94
195	10.42
196	10.03
197	9.11
198	8.93
199	7.35
200	7.35
201	6.75
202	5.85
203	4.1
204	3.16
205	0.44
206	-0.05
207	-4.57
208	-4.57
209	-8.34
210	-12.49
211	-11.12
212	-10.67
213	-5.39
214	-4.72
215	-1.43
216	-0.79
217	0.2
218	0.2

219	1.59
220	2.05
221	2.55
222	2.71
223	3.65
224	3.81
225	4.04
226	4.49
227	4.71
228	4.71
229	4.68
230	4.79
231	5.07
232	5.08
233	5.09
234	4.95
235	4.93
236	4.87
237	4.45
238	4.46
239	4.48
240	4.13
241	4.01
242	3.26
243	3.26
244	2.98
245	2.36
246	1.91
247	1.62
248	1.26
249	1.2
250	0.58
251	0.58
252	0.08
253	-0.65
254	-0.75
255	-0.8
256	-1.94
257	-2.09
258	-3.23
259	-3.43
260	-3.85
261	-3.85
262	-4.46

263	-4.78
264	-5.95
265	-6.11
266	-6.98
267	-7.68
268	-9.31
269	-9.48
270	-9.6
271	-9.6
272	-13.86
273	-13.85
274	-12.89
275	-15.4
276	-20.07
277	-20.11
278	-20.13
279	-20.01
280	-19.98
281	-20.01
282	-20.87
283	-20.55
284	-19.68
285	-23.7
286	-27.47
287	-23.54
288	-22.45
289	-20.24
290	-20.24
291	-20
292	-19.53
293	-19.56
294	-19.58
295	-20
296	-20.07
297	-14.59
298	-14.59
299	-14.84
300	-15.22
301	-12.89
302	-11.68
303	-10.82
304	-10.98
305	-14.27
306	-14.39

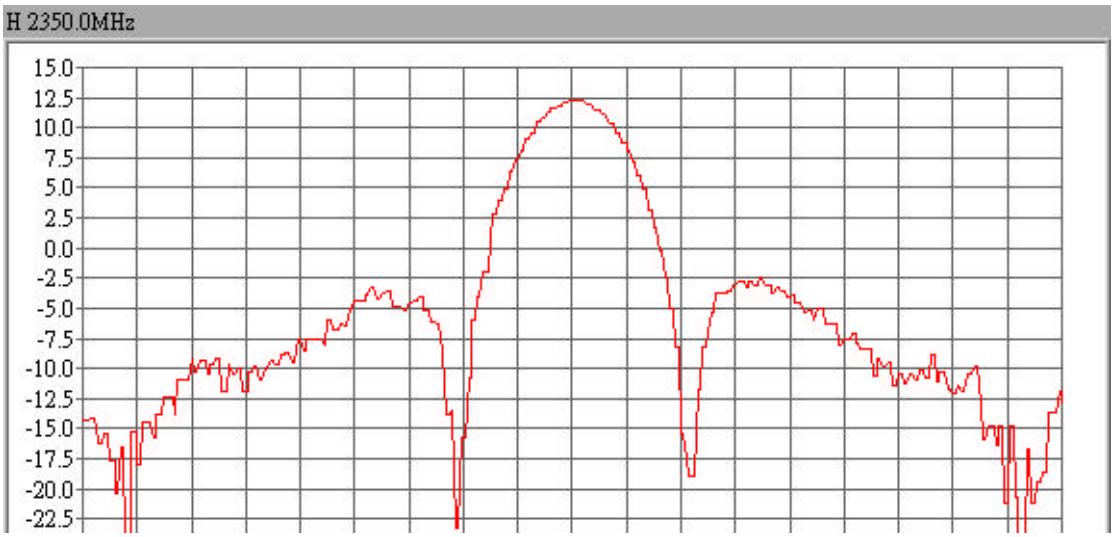
307	-14.68
308	-14.68
309	-14.19
310	-13.97
311	-14.53
312	-14.06
313	-10.92
314	-12.03
315	-13.77
316	-13.34
317	-13.05
318	-13.05
319	-12.19
320	-12.6
321	-16.68
322	-14.74
323	-11.58
324	-14.86
325	-16.87
326	-16.87
327	-12.87
328	-12.87
329	-12.84
330	-14.93
331	-17.38
332	-16.48
333	-16.12
334	-19.58
335	-19.69
336	-18.71
337	-15.47
338	-13.63
339	-11.67
340	-13.51
341	-14.17
342	-14.63
343	-14.31
344	-11.92
345	-11.92
346	-12.06
347	-12.2
348	-11.85
349	-11.74
350	-9.14

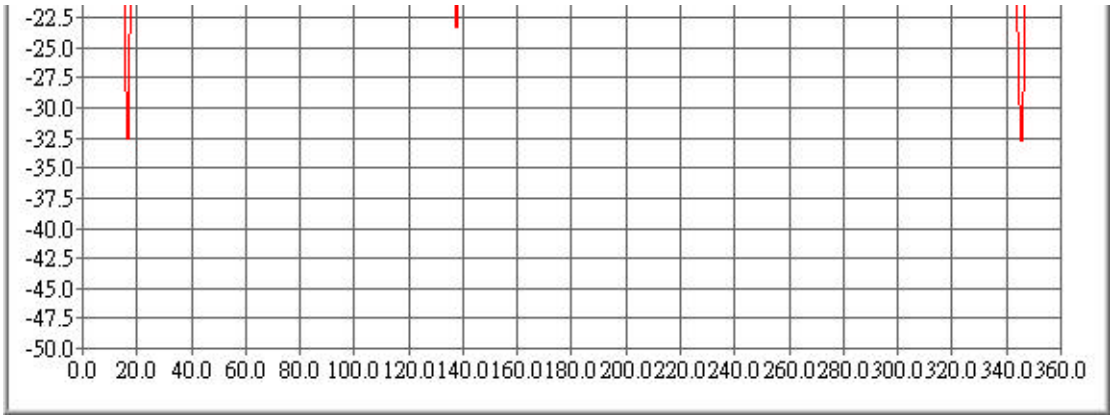
351	-9.31
352	-10.05
353	-10.05
354	-10.49
355	-10.78
356	-8.23
357	-7.82
358	-9.69
359	-9.39

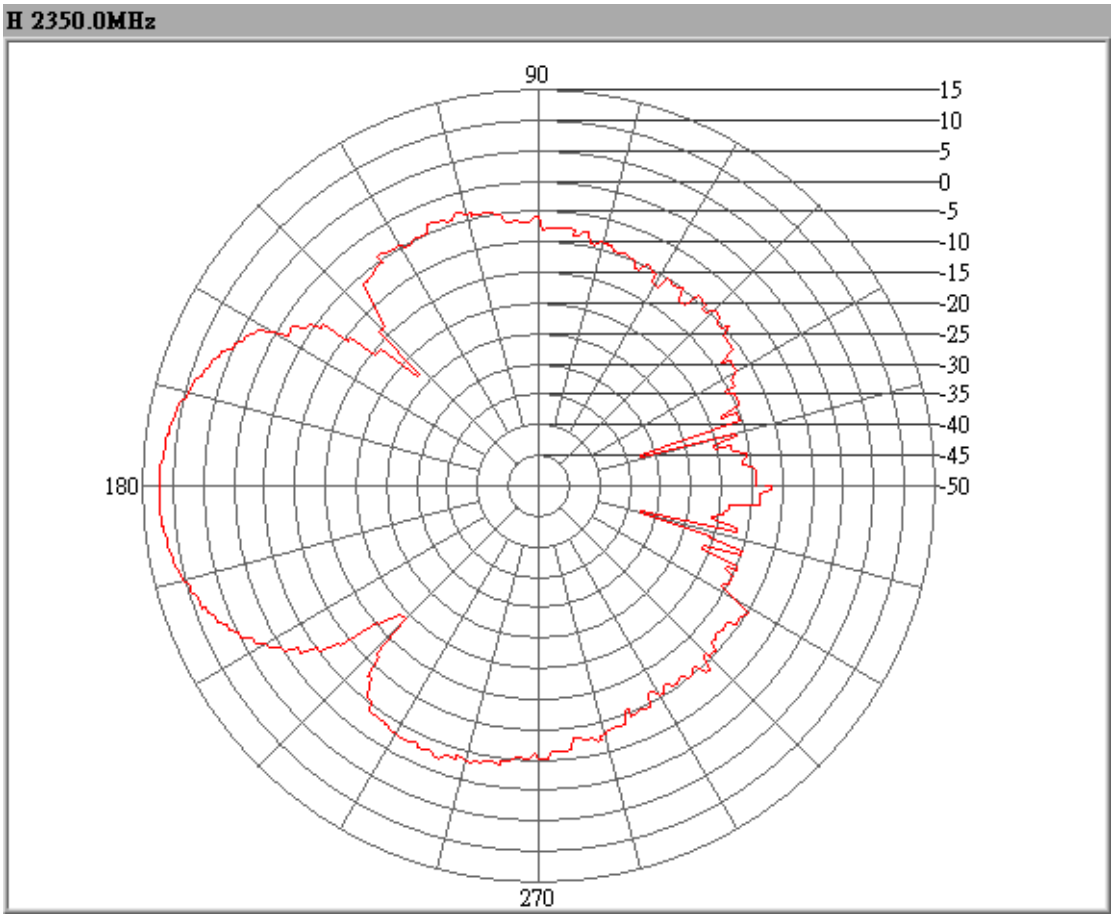
PA-23225 H-plane 2D Pattern @2350.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	12.32
Max Gain@Angle (degree)	178.51
Min Gain (dBi)	-32.63
Min Gain@Angle (degree)	345.35
Average Gain (dBi)	2.47
-3dB Angle L (degree)	-12.76
-3db Angle R (degree)	18.92
HPB (degree)	31.69
FBR (dB)	25.1







	H
0.1	-14.36
1	-14.36
2	-14.33
3	-14.14
4	-14.36
5	-14.71
6	-15.77

7	-16.28
8	-15.5
9	-15.6
10	-17.71
11	-17.71
12	-18.99
13	-20.42
14	-17.48
15	-16.61
16	-32.62
17	-29.64
18	-15.27
19	-15.27
20	-16.73
21	-17.97
22	-15
23	-14.52
24	-14.48
25	-14.76
26	-15.73
27	-14.83
28	-13.89
29	-13.89
30	-12.39
31	-12.36
32	-12.46
33	-12.99
34	-13.75
35	-11.89
36	-11.01
37	-11.01
38	-10.91
39	-10.43
40	-9.21
41	-9.85
42	-10.33
43	-9.42
44	-9.31
45	-9.54
46	-10.49
47	-10.09
48	-9.66
49	-9.35
50	-9.24

51	-11.87
52	-11.87
53	-11.11
54	-9.71
55	-10.15
56	-10.39
57	-9.97
58	-10.13
59	-11.92
60	-11.92
61	-11.01
62	-10.3
63	-9.85
64	-9.76
65	-10.89
66	-10.62
67	-9.91
68	-9.91
69	-9.51
70	-9.36
71	-9.67
72	-9.56
73	-8.89
74	-8.81
75	-8.69
76	-8.69
77	-9.33
78	-9.45
79	-7.55
80	-7.81
81	-8.55
82	-7.98
83	-7.52
84	-7.52
85	-7.64
86	-7.63
87	-7.56
88	-7.73
89	-8.01
90	-6.68
91	-5.89
92	-6.7
93	-6.76
94	-6.63

95	-6.26
96	-6.38
97	-6.47
98	-5.3
99	-5.03
100	-4.45
101	-4.45
102	-4.43
103	-4.4
104	-4.09
105	-3.84
106	-3.34
107	-3.25
108	-4.29
109	-4.13
110	-3.67
111	-3.67
112	-3.57
113	-3.52
114	-4.75
115	-4.83
116	-4.85
117	-4.99
118	-5.21
119	-5.21
120	-4.66
121	-4.54
122	-4.43
123	-4.33
124	-4.01
125	-4.63
126	-5.21
127	-5.21
128	-6.05
129	-6.11
130	-6.31
131	-7.26
132	-8.56
133	-10.83
134	-13.77
135	-13.66
136	-13.5
137	-19.97
138	-23.24

139	-15.91
140	-15.66
141	-14.36
142	-10.76
143	-8.25
144	-5.9
145	-4.36
146	-3.98
147	-1.97
148	-1.97
149	-1.05
150	0.56
151	1.95
152	2.85
153	3.84
154	3.96
155	4.94
156	5.31
157	6.39
158	6.39
159	7.09
160	7.38
161	8.16
162	8.28
163	9.04
164	9.24
165	9.52
166	9.52
167	10.4
168	10.53
169	10.89
170	11.01
171	11.28
172	11.44
173	11.56
174	11.56
175	11.79
176	11.83
177	12.12
178	12.2
179	12.32
180	12.3
181	12.29
182	12.29

183	12.26
184	12.2
185	12.03
186	12.02
187	12
188	11.6
189	11.54
190	11.5
191	11.21
192	11.02
193	10.73
194	10.46
195	10.34
196	9.64
197	9.53
198	8.81
199	8.81
200	8.45
201	8.09
202	7.4
203	7.19
204	5.96
205	5.77
206	4.88
207	4.88
208	3.89
209	3.2
210	1.86
211	1.59
212	-0.27
213	-0.97
214	-2.39
215	-2.39
216	-4.34
217	-5.01
218	-8.16
219	-8.79
220	-15.38
221	-16.05
222	-17.34
223	-18.35
224	-18.99
225	-18.99
226	-11.82

227	-11.2
228	-8.16
229	-7.66
230	-7
231	-5.74
232	-5.27
233	-3.73
234	-3.67
235	-3.69
236	-3.75
237	-3.65
238	-3.53
239	-3.21
240	-3.07
241	-2.82
242	-2.82
243	-2.91
244	-3.18
245	-3
246	-2.81
247	-3.06
248	-3.14
249	-2.47
250	-2.56
251	-3.15
252	-3.15
253	-3.44
254	-3.73
255	-3.41
256	-3.29
257	-3.55
258	-3.6
259	-4.11
260	-4.03
261	-3.87
262	-4.21
263	-4.5
264	-4.5
265	-5.26
266	-5.25
267	-5.17
268	-5.53
269	-6.05
270	-5.45

271	-5.08
272	-5.08
273	-6.26
274	-6.27
275	-6.31
276	-6.32
277	-6.34
278	-7.5
279	-8.12
280	-7.66
281	-7.62
282	-7.51
283	-7.07
284	-7.46
285	-7.86
286	-8.22
287	-8.32
288	-8.43
289	-8.43
290	-9.01
291	-10.6
292	-9.88
293	-9.23
294	-9.63
295	-9.74
296	-9.45
297	-9.79
298	-11.48
299	-11.48
300	-10.85
301	-10.39
302	-11.13
303	-11.24
304	-10.46
305	-10.61
306	-10.96
307	-10.96
308	-10.31
309	-10.06
310	-10.72
311	-10.7
312	-8.79
313	-9.51
314	-11.16

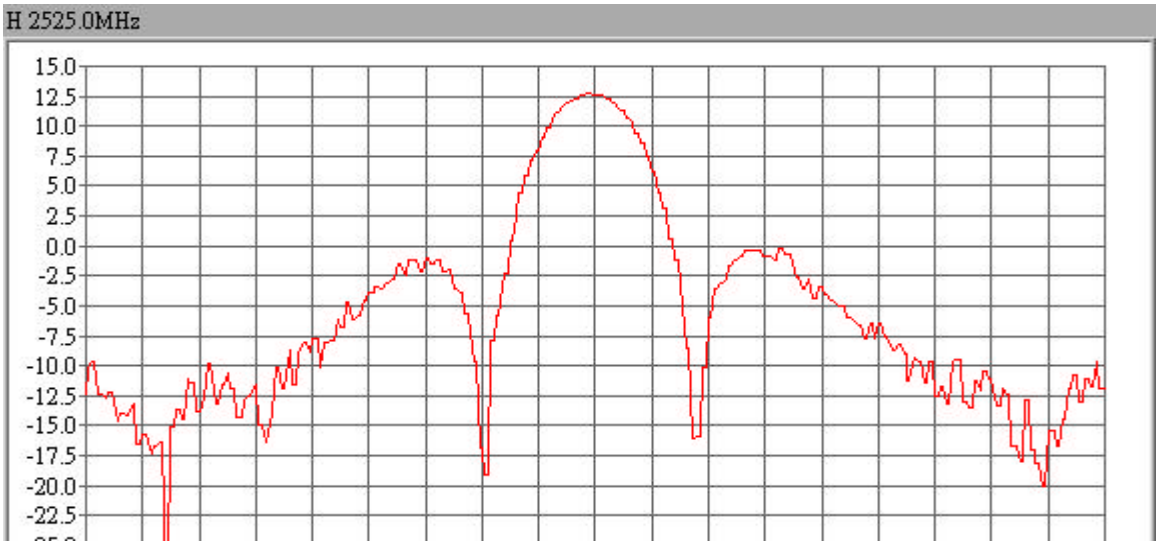
315	-10.73
316	-10.36
317	-10.36
318	-11.65
319	-11.75
320	-12.1
321	-11.9
322	-11.43
323	-11.68
324	-11.87
325	-10.7
326	-10.43
327	-10.39
328	-9.83
329	-10.86
330	-12.78
331	-14.86
332	-15.87
333	-14.83
334	-14.79
335	-15.18
336	-16.45
337	-15.62
338	-14.83
339	-20.14
340	-21.24
341	-14.83
342	-16.14
343	-20.75
344	-20.75
345	-27.9
346	-32.63
347	-18.91
348	-16.68
349	-21.13
350	-20.7
351	-19.37
352	-19.37
353	-18.87
354	-18.57
355	-14.2
356	-13.66
357	-13.63
358	-13.26

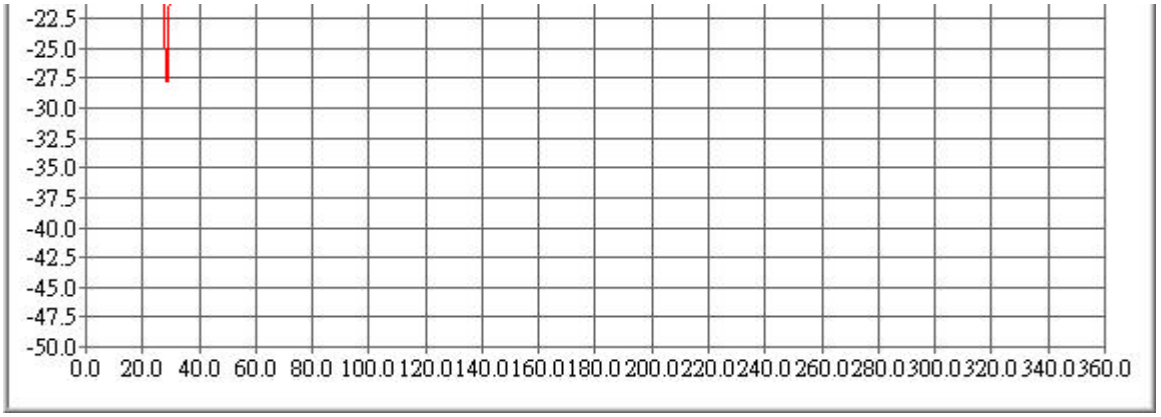
359	-11.83

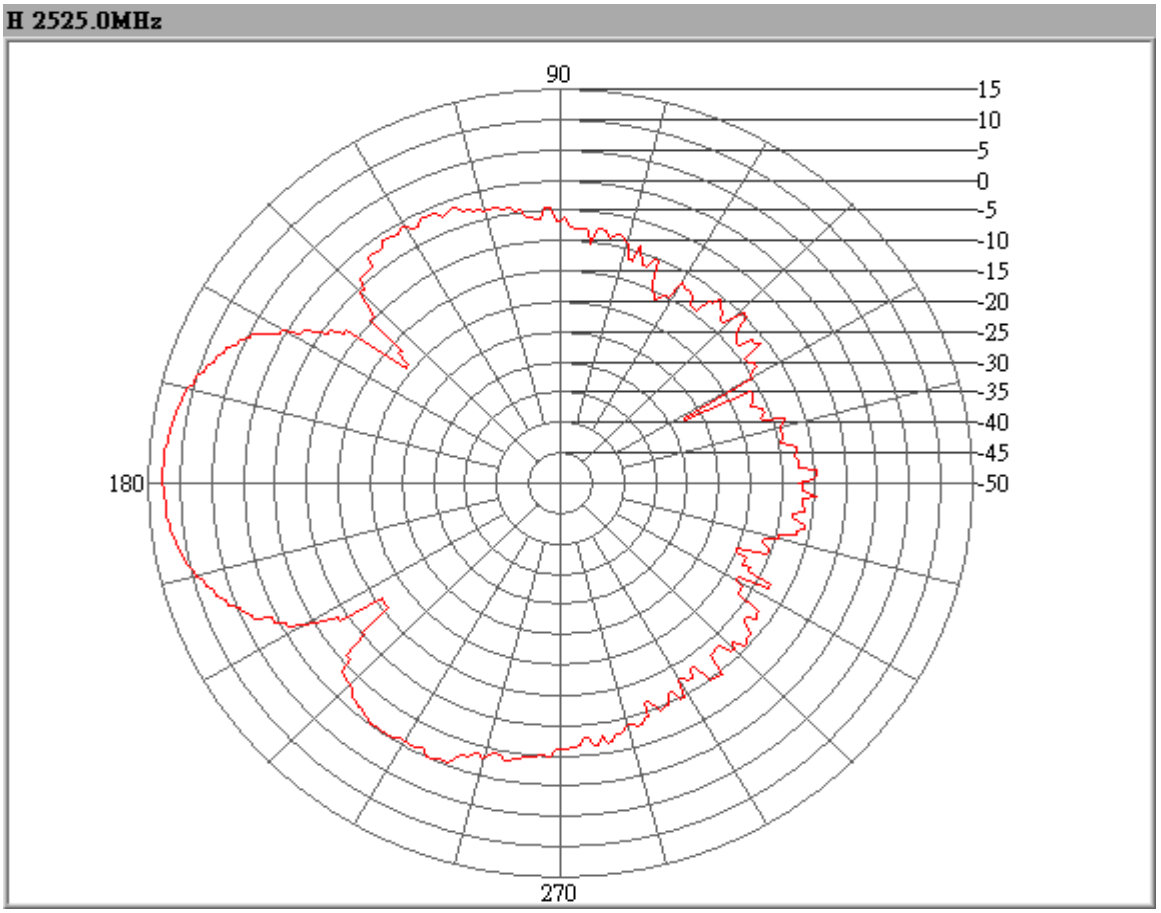
PA-23225 H-plane 2D Pattern @2525.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	12.68
Max Gain@Angle (degree)	176.66
Min Gain (dBi)	-27.67
Min Gain@Angle (degree)	27.77
Average Gain (dBi)	2.77
-3dB Angle L (degree)	-11
-3db Angle R (degree)	13.64
HPB (degree)	24.65
FBR (dB)	12.68







	H
0	-11.84
1	-10.23
2	-9.8
3	-9.67
4	-11.19
5	-12.31
6	-12.41
7	-12.69
8	-12.35

9	-12.29
10	-13.29
11	-14.58
12	-14.04
13	-14.05
14	-14.12
15	-14.12
16	-13.57
17	-14.41
18	-16.61
19	-16.61
20	-15.9
21	-15.71
22	-16.55
23	-17.14
24	-16.72
25	-16.62
26	-16.3
27	-19.14
28	-27.67
29	-26.81
30	-15.03
31	-15.03
32	-13.72
33	-13.63
34	-14.33
35	-14.41
36	-11.8
37	-11.37
38	-11.49
39	-12.95
40	-13.77
41	-13.33
42	-12.28
43	-10.19
44	-9.76
45	-11.36
46	-13.12
47	-12.81
48	-11.62
49	-11.32
50	-10.82
51	-11.93
52	-11.93

53	-13.49
54	-14.26
55	-14.05
56	-13.03
57	-12.59
58	-12.49
59	-12.12
60	-12.19
61	-14.76
62	-14.93
63	-15.46
64	-16.33
65	-14.92
66	-12.31
67	-10.08
68	-10.51
69	-11.83
70	-11.83
71	-10.01
72	-9.87
73	-11.63
74	-11.45
75	-9.33
76	-8.44
77	-8.03
78	-8.06
79	-8.68
80	-8.25
81	-7.69
82	-8.44
83	-9.97
84	-8.32
85	-7.99
86	-7.93
87	-7.83
88	-7.8
89	-6.27
90	-6.7
91	-6.81
92	-4.99
93	-4.63
94	-6.05
95	-6.21
96	-5.88

97	-5.82
98	-4.94
99	-4.5
100	-4.13
101	-3.94
102	-3.68
103	-3.46
104	-3.57
105	-3.6
106	-3.23
107	-3.12
108	-2.81
109	-2.69
110	-1.91
111	-1.56
112	-1.88
113	-2.14
114	-1.24
115	-1.21
116	-1.11
117	-1.44
118	-2.1
119	-1.8
120	-1.07
121	-1.19
122	-1.5
123	-1.45
124	-1.21
125	-1.37
126	-2.1
127	-2.09
128	-2.03
129	-2.03
130	-3.62
131	-3.63
132	-3.88
133	-3.9
134	-5.54
135	-5.58
136	-7.15
137	-9.73
138	-10.68
139	-16.79
140	-16.79

141	-19.02
142	-19.16
143	-10.44
144	-7.88
145	-6.41
146	-5.77
147	-3.83
148	-2.22
149	-1.15
150	0.5
151	0.96
152	2.81
153	4.41
154	4.73
155	5.87
156	5.93
157	7.14
158	7.2
159	7.97
160	7.97
161	8.84
162	9.06
163	9.66
164	9.92
165	10.39
166	10.99
167	11.16
168	11.45
169	11.73
170	11.87
171	12.04
172	12.19
173	12.34
174	12.43
175	12.57
176	12.61
177	12.68
178	12.68
179	12.66
180	12.63
181	12.53
182	12.52
183	12.38
184	12.3

185	12.3
186	12.05
187	12
188	11.64
189	11.32
190	11.06
191	10.73
192	10.67
193	10.3
194	9.39
195	9.33
196	8.62
197	8.56
198	7.44
199	7.41
200	6.33
201	6.18
202	4.75
203	4.46
204	3.31
205	3.18
206	1.21
207	0.53
208	-0.59
209	-1.09
210	-3.01
211	-6.31
212	-8.54
213	-10.65
214	-16.07
215	-16.02
216	-15.9
217	-14.1
218	-10.16
219	-8.88
220	-5.98
221	-5.52
222	-3.6
223	-3.53
224	-3.13
225	-3.13
226	-2.81
227	-1.78
228	-1.68

229	-1.29
230	-1.21
231	-0.98
232	-0.91
233	-0.57
234	-0.37
235	-0.41
236	-0.43
237	-0.42
238	-0.4
239	-0.88
240	-0.91
241	-0.85
242	-0.85
243	-1.07
244	-1.11
245	-0.45
246	-0.15
247	-0.5
248	-0.75
249	-1.06
250	-1.86
251	-2.68
252	-2.68
253	-3.45
254	-3.6
255	-3.14
256	-3.41
257	-4.3
258	-4.1
259	-3.44
260	-3.51
261	-4.06
262	-4.06
263	-4.51
264	-4.58
265	-4.75
266	-4.94
267	-4.99
268	-5.49
269	-6.03
270	-6.11
271	-6.2
272	-6.35

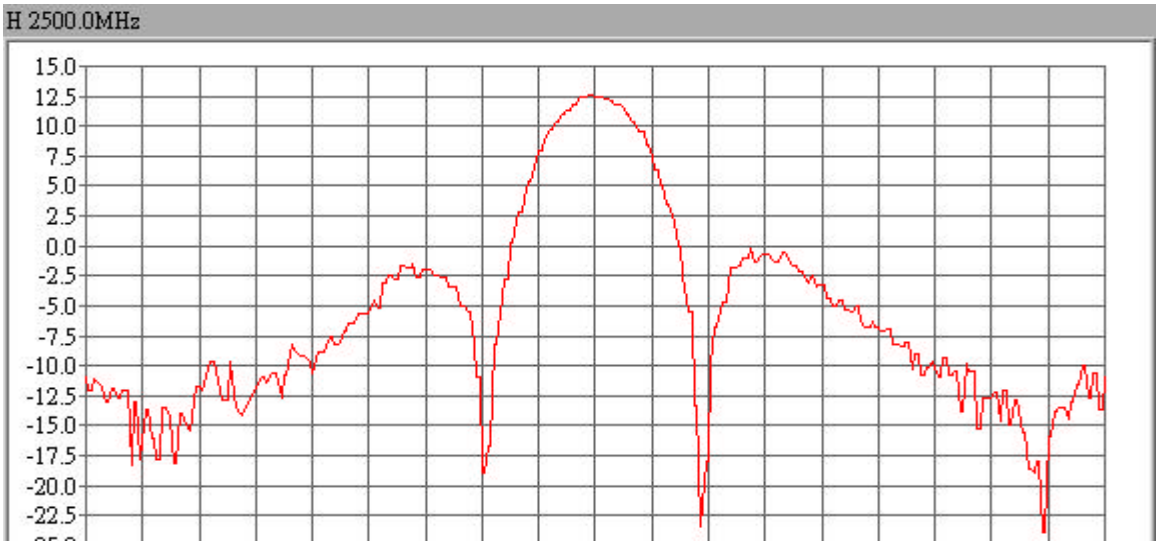
273	-6.54
274	-6.79
275	-7.72
276	-7.68
277	-6.5
278	-6.5
279	-7.65
280	-6.65
281	-6.48
282	-7.22
283	-7.58
284	-8.15
285	-8.68
286	-8.49
287	-8.24
288	-8.54
289	-8.97
290	-10.02
291	-11.31
292	-10.35
293	-9.46
294	-9.63
295	-9.93
296	-11.43
297	-11.28
298	-9.79
299	-9.7
300	-11.71
301	-12.6
302	-12.06
303	-11.69
304	-12.58
305	-13.13
306	-11.13
307	-9.57
308	-9.45
309	-10.44
310	-13.03
311	-13.07
312	-13.44
313	-13.39
314	-11.56
315	-11.25
316	-11.88

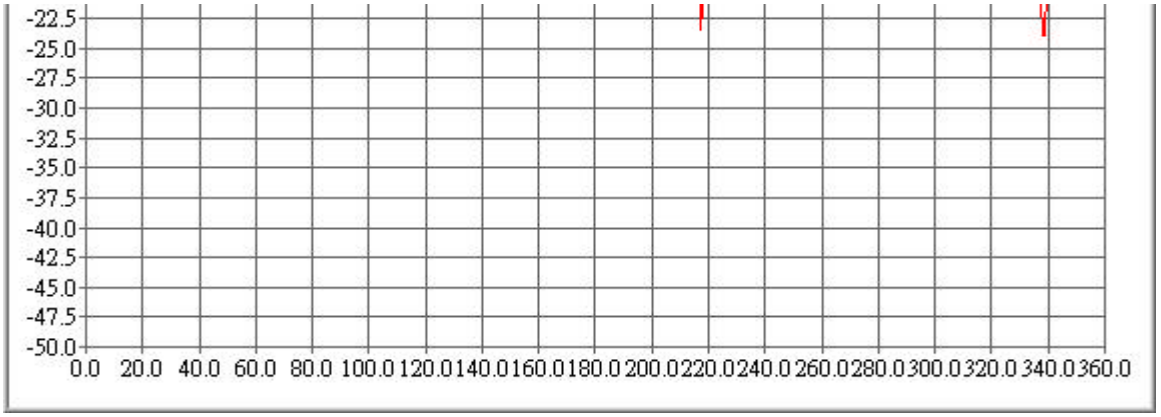
317	-11.13
318	-10.5
319	-10.8
320	-11.05
321	-11.89
322	-13.34
323	-13.35
324	-12.1
325	-12.3
326	-12.4
327	-15.36
328	-16.65
329	-17.19
330	-17.91
331	-16.16
332	-12.93
333	-14.59
334	-17.01
335	-17.55
336	-18.17
337	-19
338	-20.09
339	-18.53
340	-15.42
341	-15.36
342	-15.36
343	-16.63
344	-16.52
345	-14.48
346	-14.48
347	-11.9
348	-11.9
349	-10.83
350	-10.89
351	-13.03
352	-12.89
353	-11.15
354	-11.23
355	-11.73
356	-11.73
357	-10.1
358	-11.27
359	-11.91

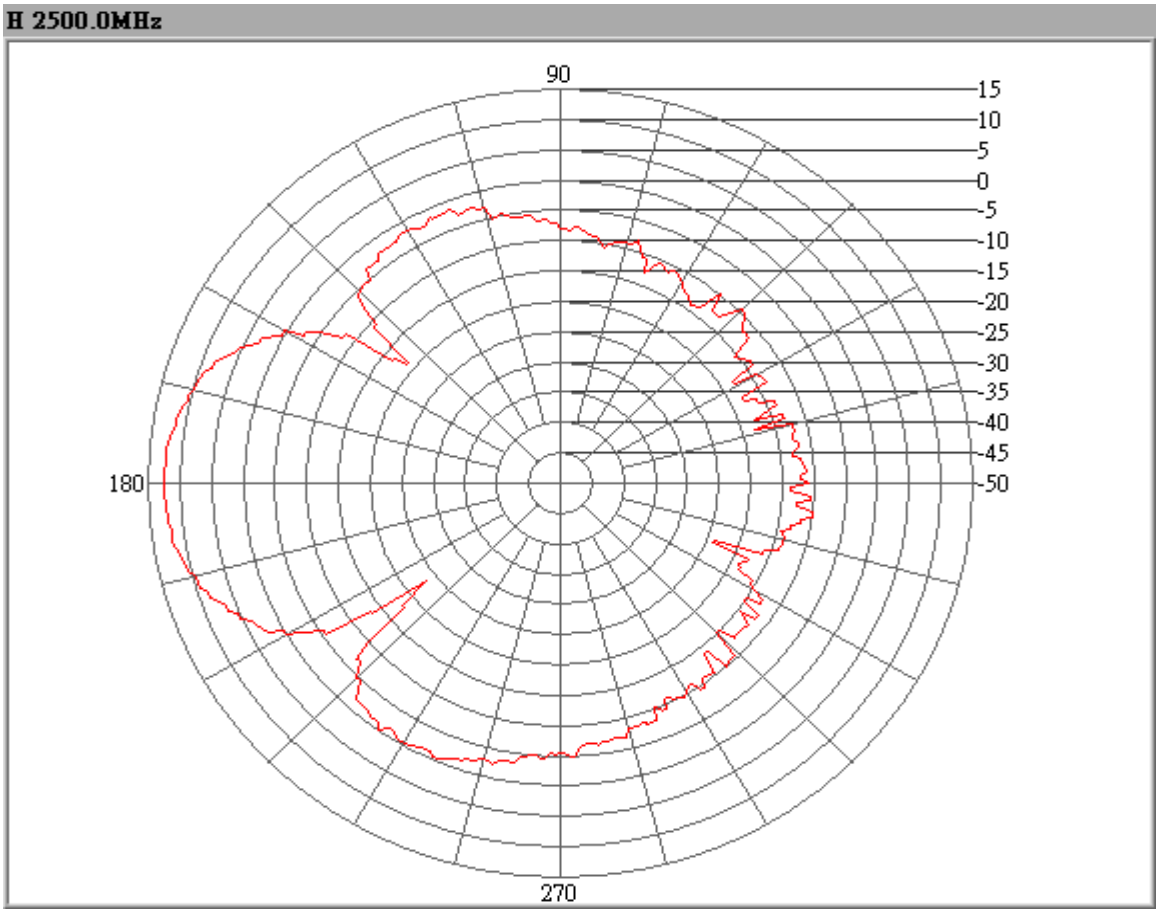
PA-23225 H-plane 2D Pattern @2500.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	12.6
Max Gain@Angle (degree)	177.69
Min Gain (dBi)	-23.97
Min Gain@Angle (degree)	337.99
Average Gain (dBi)	2.74
-3dB Angle L (degree)	-11
-3db Angle R (degree)	13.64
HPB (degree)	24.65
FBR (dB)	12.6







	H
0.4	-10.87
1	-11.77
2	-12.12
3	-11.05
4	-11.3
5	-11.56
6	-11.96
7	-13.03

8	-13.03
9	-12.14
10	-11.93
11	-12.44
12	-12.7
13	-12.37
14	-12.13
15	-14.56
16	-17.06
17	-13.27
18	-13.01
19	-15.91
20	-15.81
21	-13.67
22	-14.66
23	-16.08
24	-16.57
25	-17.9
26	-17.69
27	-13.87
28	-13.47
29	-13.83
30	-15.15
31	-18.15
32	-17.8
33	-14.21
34	-13.93
35	-14.69
36	-15.27
37	-15.41
38	-13.77
39	-11.8
40	-11.81
41	-12.03
42	-11.5
43	-10.54
44	-9.59
45	-9.59
46	-10.22
47	-11.36
48	-12.5
49	-12.85
50	-12.55
51	-10.53

52	-11
53	-13.26
54	-13.75
55	-13.99
56	-13.67
57	-13.14
58	-12.79
59	-12.4
60	-11.88
61	-11.27
62	-10.87
63	-10.93
64	-11.27
65	-11
66	-10.7
67	-10.7
68	-11.73
69	-12.25
70	-10.77
71	-10.72
72	-9.7
73	-8.32
74	-8.72
75	-9.04
76	-9.16
77	-9.22
78	-9.48
79	-9.8
80	-10.39
81	-9.79
82	-8.9
83	-8.9
84	-8.85
85	-8.17
86	-7.54
87	-7.65
88	-8.17
89	-8.17
90	-8.06
91	-7.11
92	-7.11
93	-6.72
94	-6.51
95	-6.38

96	-5.62
97	-5.6
98	-5.6
99	-5.59
100	-5.58
101	-5.06
102	-4.71
103	-5.14
104	-4.83
105	-3.08
106	-2.97
107	-2.5
108	-2.54
109	-2.83
110	-2.68
111	-1.61
112	-1.61
113	-1.75
114	-1.87
115	-1.69
116	-1.98
117	-2.55
118	-2.55
119	-2.19
120	-1.96
121	-1.91
122	-1.9
123	-2.48
124	-2.48
125	-2.53
126	-2.54
127	-2.54
128	-3.11
129	-3.41
130	-3.36
131	-3.34
132	-4.35
133	-4.98
134	-5.12
135	-5.52
136	-5.71
137	-8.48
138	-10.93
139	-10.98

140	-16.88
141	-18.86
142	-17.35
143	-16.7
144	-10.97
145	-8.16
146	-6.69
147	-4.17
148	-2.83
149	-2.73
150	-0.18
151	0.28
152	1.62
153	2.85
154	3.12
155	4.04
156	5.11
157	5.37
158	6.19
159	7.42
160	7.99
161	7.99
162	8.7
163	9.36
164	9.66
165	9.87
166	10.36
167	10.54
168	11.06
169	11.06
170	11.37
171	11.39
172	11.81
173	11.86
174	12.1
175	12.29
176	12.36
177	12.46
178	12.6
179	12.57
180	12.48
181	12.48
182	12.47
183	12.27

184	12.25
185	12.09
186	12.06
187	11.92
188	11.82
189	11.73
190	11.4
191	11.01
192	10.98
193	10.54
194	10.43
195	9.82
196	9.5
197	9.09
198	8.42
199	8.17
200	7.21
201	6.42
202	6.33
203	5.25
204	5.13
205	4.02
206	3.49
207	2.89
208	1.53
209	-0.05
210	-0.05
211	-1.68
212	-3.97
213	-5.49
214	-7.37
215	-13.28
216	-13.28
217	-21.12
218	-20.19
219	-17.93
220	-15.87
221	-9.69
222	-7.31
223	-6.85
224	-5.95
225	-4.7
226	-4.7
227	-3.57

228	-2.32
229	-1.87
230	-1.83
231	-1.62
232	-1.18
233	-1.07
234	-0.73
235	-0.38
236	-1.26
237	-1.28
238	-0.98
239	-0.63
240	-0.63
241	-0.63
242	-1.01
243	-1.28
244	-1.3
245	-1.28
246	-0.59
247	-0.53
248	-0.88
249	-1.31
250	-1.62
251	-1.62
252	-2
253	-2.11
254	-2.65
255	-3.12
256	-2.77
257	-2.82
258	-3.35
259	-3.29
260	-3.23
261	-3.69
262	-4.44
263	-4.55
264	-4.96
265	-4.93
266	-4.53
267	-4.63
268	-5.34
269	-5.36
270	-5.5
271	-5.4

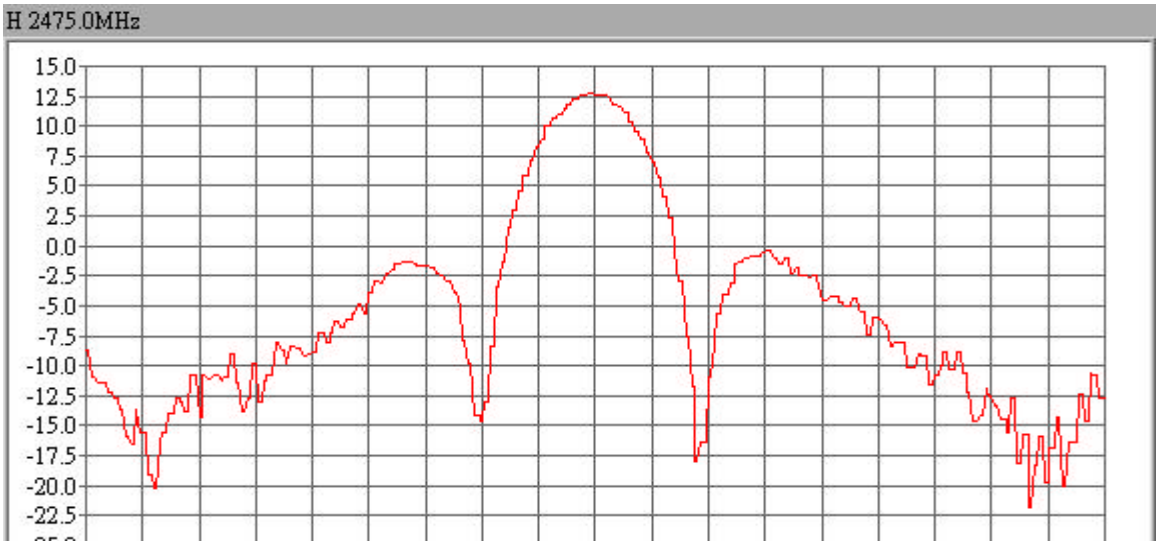
272	-4.94
273	-4.94
274	-6.16
275	-6.66
276	-6.75
277	-6.75
278	-6.38
279	-6.69
280	-6.73
281	-6.97
282	-7.02
283	-6.91
284	-6.88
285	-7.69
286	-8.14
287	-8.25
288	-8.41
289	-8.2
290	-7.98
291	-8.61
292	-9.9
293	-9.08
294	-9.1
295	-10.58
296	-10.82
297	-10.23
298	-10.06
299	-9.83
300	-10.22
301	-10.91
302	-10.46
303	-9.3
304	-9.84
305	-10.75
306	-10.64
307	-10.42
308	-10.89
309	-13.87
310	-13.68
311	-10.6
312	-10.24
313	-10.47
314	-12.27
315	-15.18

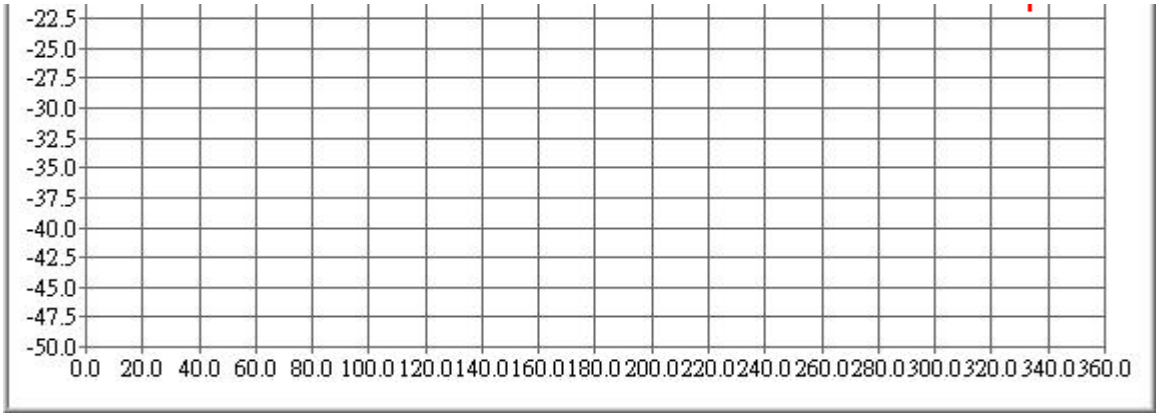
316	-14.4
317	-12.62
318	-12.65
319	-12.72
320	-12.62
321	-12.21
322	-12.25
323	-14.48
324	-12.65
325	-12.02
326	-14.08
327	-14.97
328	-13.61
329	-12.78
330	-14.17
331	-15.63
332	-16.7
333	-18.57
334	-18.68
335	-18.75
336	-17.94
337	-18.02
338	-23.97
339	-23.97
340	-15.98
341	-15.98
342	-14.54
343	-13.85
344	-13.65
345	-13.51
346	-13.97
347	-13.95
348	-13.03
349	-12.71
350	-11.65
351	-11.42
352	-9.99
353	-10.23
354	-12.66
355	-12.66
356	-10.64
357	-10.61
358	-13.3
359	-13.71

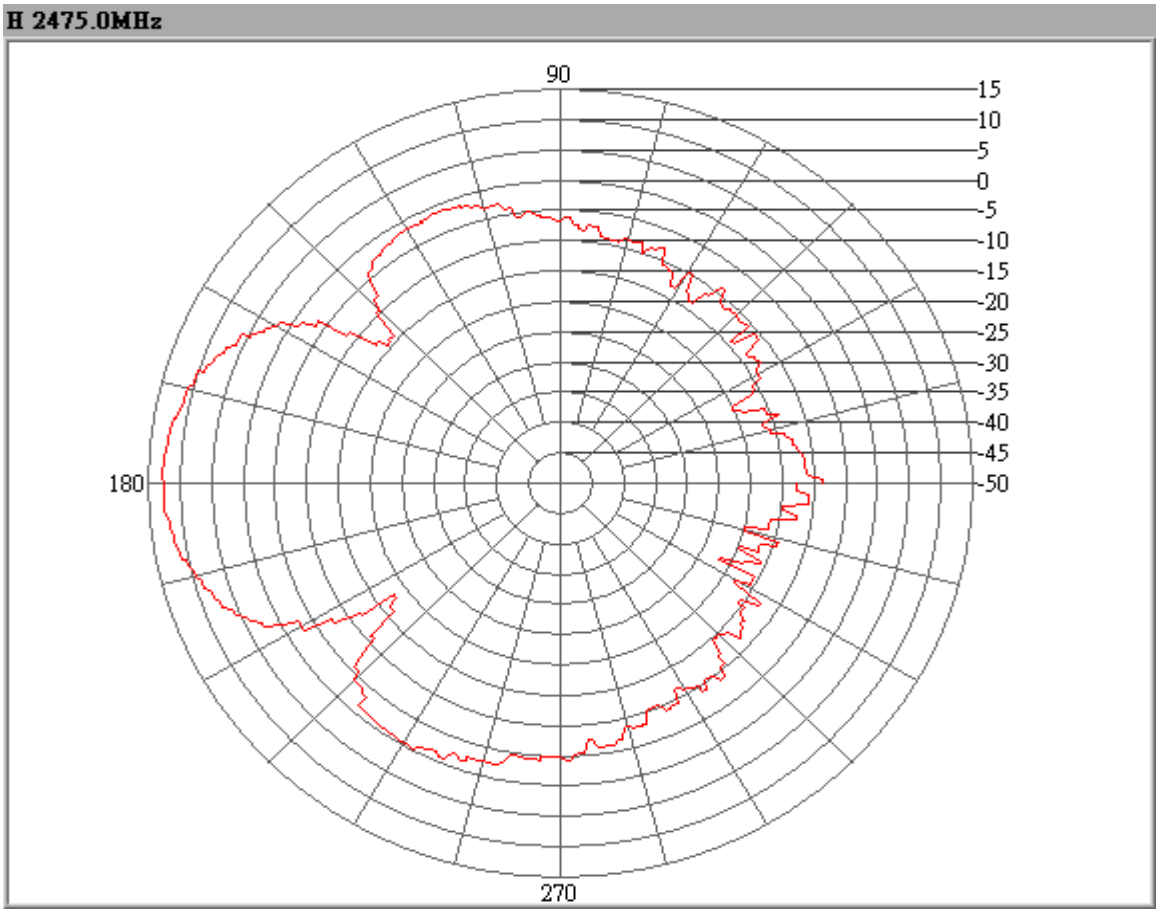
PA-23225 H-plane 2D Pattern @2475.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	12.71
Max Gain@Angle (degree)	178.34
Min Gain (dBi)	-21.86
Min Gain@Angle (degree)	333.39
Average Gain (dBi)	2.71
-3dB Angle L (degree)	-14.52
-3db Angle R (degree)	15.4
HPB (degree)	29.93
FBR (dB)	27.06







	H
0	-8.76
1	-9.27
2	-10.98
3	-10.98
4	-11.29
5	-11.48
6	-11.44
7	-11.43

8	-12.17
9	-12.29
10	-12.76
11	-12.76
12	-13.28
13	-13.62
14	-15.49
15	-15.85
16	-16.54
17	-15.72
18	-13.68
19	-14.75
20	-15.52
21	-15.52
22	-18.81
23	-19.11
24	-20.19
25	-18.96
26	-16.59
27	-16.01
28	-15.66
29	-14.11
30	-13.97
31	-13.7
32	-12.64
33	-12.82
34	-13.03
35	-13.57
36	-13.75
37	-10.78
38	-10.78
39	-11.91
40	-14.27
41	-12.34
42	-10.75
43	-11.02
44	-11.08
45	-10.8
46	-10.8
47	-10.97
48	-11.26
49	-11.07
50	-10.95
51	-9.2

52	-9.09
53	-11.4
54	-12.15
55	-13.82
56	-13.82
57	-13.04
58	-12.66
59	-9.99
60	-9.98
61	-13.08
62	-12.62
63	-11.2
64	-10.99
65	-10.78
66	-10.78
67	-8.25
68	-8.02
69	-8.73
70	-9.06
71	-9.87
72	-8.96
73	-8.33
74	-8.5
75	-8.53
76	-8.61
77	-9.1
78	-9.08
79	-9.06
80	-8.95
81	-8.9
82	-7.4
83	-7.28
84	-7.45
85	-8.07
86	-7.71
87	-7.28
88	-6.51
89	-6.24
90	-6.77
91	-6.66
92	-6.08
93	-6.08
94	-5.84
95	-5.63

96	-4.98
97	-4.85
98	-5.64
99	-5.25
100	-3.96
101	-3.96
102	-3.36
103	-3
104	-3.14
105	-3.14
106	-2.33
107	-2.23
108	-1.99
109	-1.75
110	-1.54
111	-1.54
112	-1.38
113	-1.36
114	-1.26
115	-1.33
116	-1.55
117	-1.63
118	-1.7
119	-1.71
120	-1.71
121	-1.72
122	-1.78
123	-1.93
124	-2.29
125	-2.34
126	-2.37
127	-2.85
128	-2.92
129	-3.07
130	-3.85
131	-4.35
132	-4.99
133	-7.01
134	-7.92
135	-9.7
136	-10.03
137	-14.15
138	-14.15
139	-14.34

140	-14.57
141	-13.46
142	-13.09
143	-8.41
144	-7.46
145	-3.48
146	-3.48
147	-2.28
148	-1.39
149	1.06
150	1.61
151	3.01
152	3.3
153	4.52
154	5.18
155	5.91
156	5.91
157	6.98
158	7.14
159	8.28
160	8.43
161	8.97
162	9.49
163	9.98
164	9.98
165	10.64
166	10.74
167	10.99
168	11.12
169	11.55
170	11.7
171	11.83
172	12.14
173	12.22
174	12.25
175	12.52
176	12.52
177	12.53
178	12.64
179	12.71
180	12.59
181	12.58
182	12.56
183	12.56

184	12.43
185	12.25
186	11.96
187	11.83
188	11.58
189	11.53
190	11.11
191	11.11
192	10.74
193	10.33
194	9.77
195	9.55
196	8.91
197	8.77
198	7.86
199	7.51
200	6.95
201	6.95
202	5.93
203	5.67
204	4.1
205	3.89
206	2.34
207	1.11
208	-0.59
209	-2.19
210	-2.88
211	-2.88
212	-7.65
213	-8.73
214	-11.78
215	-14.89
216	-18
217	-16.77
218	-16.43
219	-16.25
220	-10.93
221	-10.02
222	-8.27
223	-6.57
224	-5.62
225	-4.17
226	-3.99
227	-3.84

228	-3.12
229	-2.41
230	-1.56
231	-1.38
232	-1.31
233	-1.03
234	-1
235	-0.88
236	-0.88
237	-0.85
238	-0.82
239	-0.54
240	-0.49
241	-0.4
242	-0.55
243	-1.04
244	-1.04
245	-1.35
246	-1.52
247	-1.1
248	-1.04
249	-2.24
250	-2.12
251	-1.75
252	-2.11
253	-2.45
254	-2.45
255	-2.67
256	-2.67
257	-2.53
258	-2.85
259	-3.35
260	-4.17
261	-4.58
262	-4.58
263	-4.29
264	-4.29
265	-4.28
266	-4.52
267	-4.73
268	-4.9
269	-4.93
270	-4.86
271	-4.3

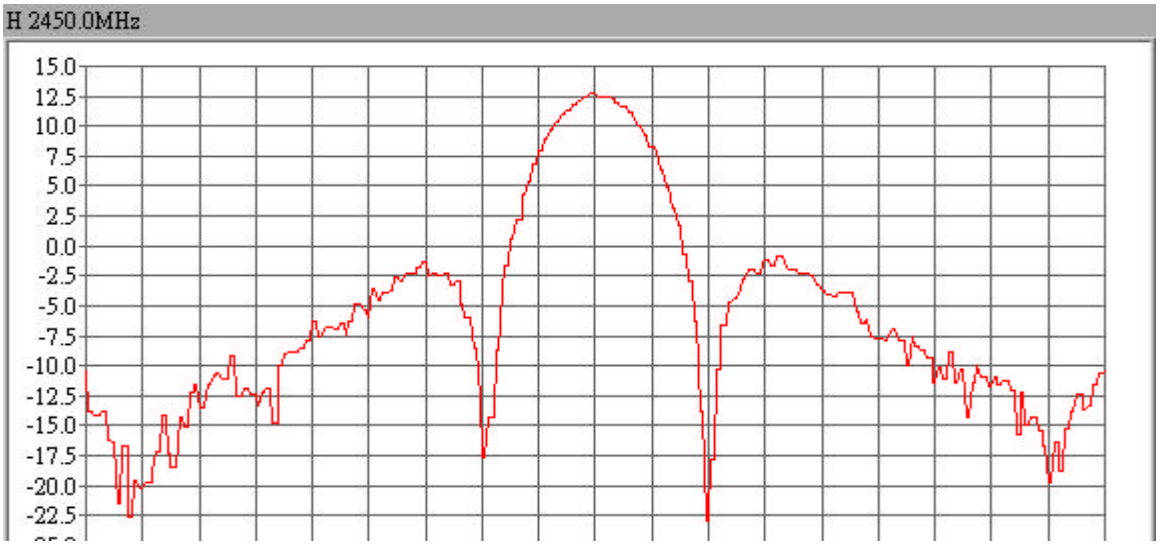
272	-4.64
273	-5.17
274	-5.36
275	-5.47
276	-7.25
277	-7.34
278	-5.99
279	-5.99
280	-6.03
281	-6.09
282	-6.49
283	-6.61
284	-8.37
285	-8.37
286	-8.03
287	-8.03
288	-8.06
289	-8.08
290	-9.7
291	-10.13
292	-10.16
293	-9.87
294	-8.98
295	-9.07
296	-9.14
297	-9.14
298	-11.23
299	-11.52
300	-10.75
301	-10.57
302	-10
303	-9.44
304	-8.84
305	-9.88
306	-10.22
307	-10.22
308	-8.93
309	-9.38
310	-10.64
311	-11.47
312	-12.15
313	-14.2
314	-14.63
315	-14.56

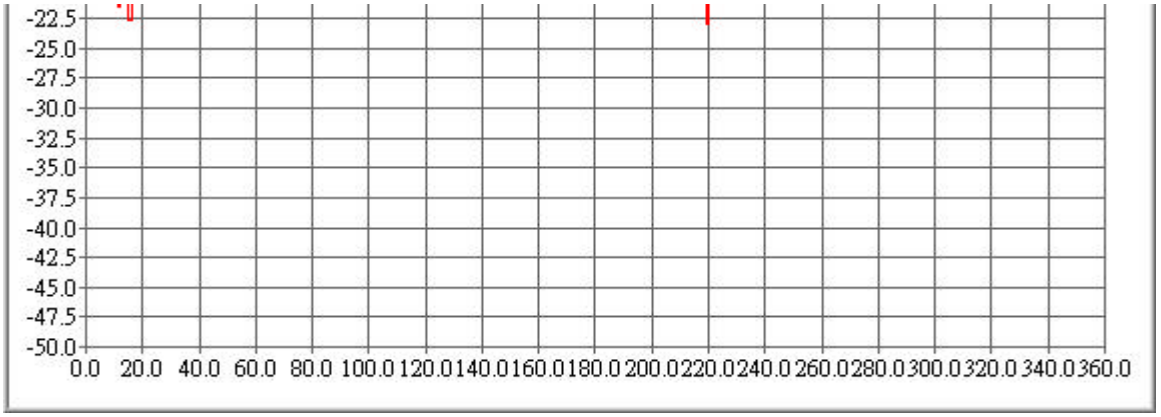
316	-14.1
317	-13.28
318	-11.95
319	-12.36
320	-12.54
321	-13.26
322	-13.37
323	-14.51
324	-14.51
325	-14.99
326	-15.58
327	-13.47
328	-12.66
329	-18.04
330	-17.86
331	-15.68
332	-15.68
333	-19.11
334	-21.86
335	-18.83
336	-18.34
337	-15.84
338	-16.77
339	-19.82
340	-18.53
341	-16.82
342	-16.82
343	-14.72
344	-14.35
345	-20.02
346	-18.94
347	-16.45
348	-16.4
349	-16.36
350	-16.36
351	-12.72
352	-12.54
353	-14.69
354	-13.46
355	-10.64
356	-10.77
357	-10.85
358	-12.51
359	-12.74

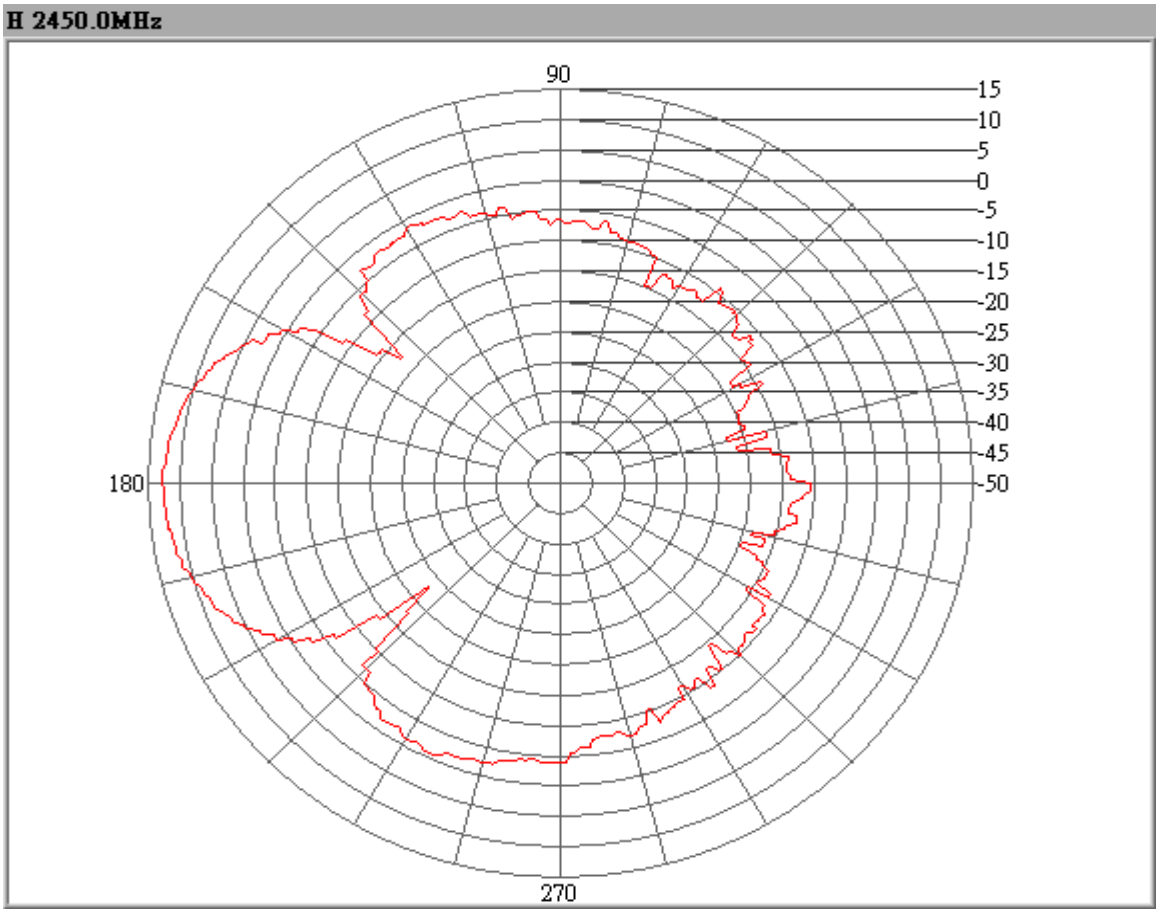
PA-23225 H-plane 2D Pattern @2450.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	12.74
Max Gain@Angle (degree)	179.47
Min Gain (dBi)	-23
Min Gain@Angle (degree)	219.17
Average Gain (dBi)	2.7
-3dB Angle L (degree)	-12.76
-3db Angle R (degree)	17.16
HPB (degree)	29.93
FBR (dB)	24.96







	H
0	-10.49
1	-12.41
2	-13.77
3	-14.13
4	-14.18
5	-14.11
6	-13.76
7	-14.79

8	-16.25
9	-16.35
10	-16.4
11	-21.07
12	-21.18
13	-16.67
14	-16.67
15	-19.43
16	-22.63
17	-20.44
18	-19.59
19	-20.19
20	-20.17
21	-19.82
22	-19.82
23	-19.25
24	-18.21
25	-17.31
26	-17.12
27	-14.25
28	-14.46
29	-17.39
30	-17.86
31	-18.53
32	-18.53
33	-15.26
34	-14.36
35	-15.04
36	-14.36
37	-12.17
38	-11.89
39	-11.6
40	-12.97
41	-13.42
42	-13.41
43	-11.51
44	-11.34
45	-10.81
46	-10.74
47	-10.66
48	-11
49	-11.08
50	-11.01
51	-9.25

52	-10.34
53	-12.61
54	-12.55
55	-12.5
56	-11.99
57	-11.9
58	-12.39
59	-12.39
60	-12.76
61	-13.34
62	-12.59
63	-12.19
64	-11.93
65	-12.07
66	-14.86
67	-14.86
68	-12.47
69	-9.9
70	-9.29
71	-9.06
72	-8.82
73	-8.81
74	-8.8
75	-8.71
76	-8.56
77	-8.56
78	-8.06
79	-7.89
80	-6.35
81	-6.54
82	-7.6
83	-7.44
84	-7.13
85	-6.89
86	-6.71
87	-6.71
88	-6.95
89	-6.93
90	-6.44
91	-6.71
92	-7.42
93	-6.81
94	-6.36
95	-5.15

96	-4.88
97	-4.91
98	-5.29
99	-5.48
100	-5.94
101	-4.61
102	-3.61
103	-4.42
104	-4.57
105	-3.82
106	-3.82
107	-3.79
108	-3.74
109	-3.06
110	-2.67
111	-2.87
112	-2.9
113	-2.24
114	-2.24
115	-2.22
116	-2.22
117	-1.96
118	-1.73
119	-1.47
120	-1.41
121	-2.43
122	-2.4
123	-2.3
124	-2.37
125	-2.45
126	-2.45
127	-2.25
128	-2.22
129	-3.27
130	-3.21
131	-3
132	-3.97
133	-4.91
134	-5.75
135	-6.04
136	-6.12
137	-8.59
138	-9.92
139	-12.69

140	-15.56
141	-17.65
142	-14.81
143	-14.26
144	-13.55
145	-8.67
146	-6.74
147	-3.79
148	-2.34
149	-1.61
150	0.35
151	0.6
152	2.2
153	2.2
154	3.07
155	4.22
156	5.06
157	5.42
158	6.68
159	6.82
160	7.99
161	8.17
162	8.88
163	8.88
164	9.35
165	9.68
166	10.25
167	10.42
168	10.96
169	11.01
170	11.32
171	11.53
172	11.84
173	11.84
174	12.05
175	12.11
176	12.37
177	12.43
178	12.68
179	12.71
180	12.74
181	12.56
182	12.49
183	12.49

184	12.38
185	12.35
186	12.26
187	12.1
188	11.97
189	11.73
190	11.67
191	11.63
192	11.12
193	10.92
194	10.57
195	10.23
196	10.03
197	9.33
198	9.2
199	8.28
200	8.28
201	7.97
202	7.32
203	6.78
204	6.39
205	5.19
206	4.98
207	3.19
208	2.74
209	1.65
210	1.65
211	0.15
212	-0.62
213	-2.8
214	-3.3
215	-6.29
216	-9.24
217	-13.83
218	-13.83
219	-21.21
220	-23
221	-17.87
222	-15.9
223	-10.23
224	-8.36
225	-6.67
226	-6.67
227	-4.89

228	-4.69
229	-4.39
230	-4.16
231	-3.61
232	-3.15
233	-2.79
234	-2.1
235	-1.94
236	-1.97
237	-2.3
238	-2.03
239	-1.51
240	-1.32
241	-1.2
242	-1.55
243	-1.6
244	-0.89
245	-0.89
246	-1.04
247	-1.25
248	-1.72
249	-1.92
250	-2.03
251	-2.06
252	-2.37
253	-2.37
254	-2.33
255	-2.29
256	-2.45
257	-2.52
258	-3.3
259	-3.36
260	-3.67
261	-3.81
262	-4.03
263	-4.03
264	-4.22
265	-4.27
266	-3.82
267	-3.84
268	-3.89
269	-3.91
270	-3.94
271	-3.94

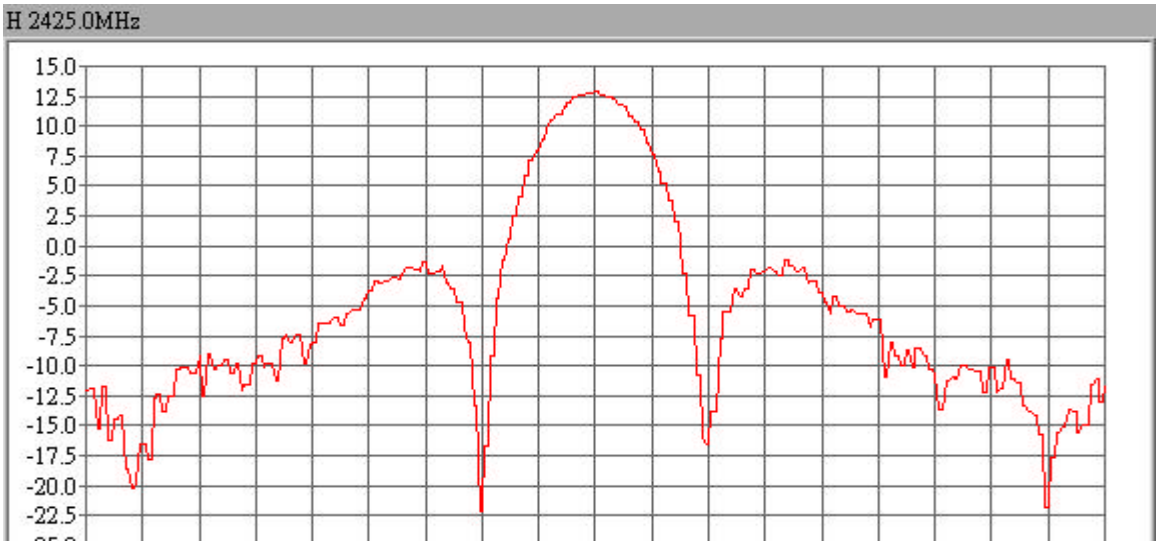
272	-5.4
273	-5.58
274	-6.38
275	-6.32
276	-6.19
277	-6.94
278	-7.53
279	-7.66
280	-7.68
281	-7.71
282	-7.93
283	-7.62
284	-7.04
285	-6.95
286	-6.89
287	-7.7
288	-7.84
289	-8.05
290	-10.05
291	-9.1
292	-7.57
293	-8.09
294	-8.39
295	-8.75
296	-8.81
297	-9.37
298	-9.37
299	-10.36
300	-11.45
301	-10.51
302	-10.16
303	-11.12
304	-11.08
305	-8.82
306	-9.59
307	-11.49
308	-11.49
309	-10.57
310	-10.24
311	-14.34
312	-13.99
313	-11.46
314	-10.86
315	-9.98

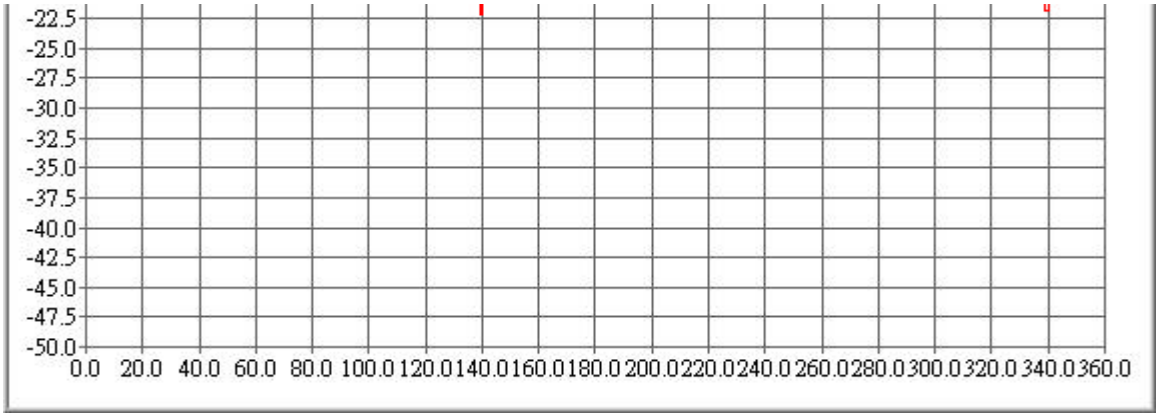
316	-10.56
317	-10.9
318	-10.9
319	-11.69
320	-11.58
321	-10.9
322	-11.2
323	-11.6
324	-11.41
325	-11.33
326	-11.33
327	-12.1
328	-13.02
329	-15.67
330	-13.92
331	-12.22
332	-14.2
333	-14.87
334	-14.24
335	-14.24
336	-14.58
337	-15.49
338	-16.16
339	-16.73
340	-19.19
341	-19.71
342	-16.4
343	-16.4
344	-17.5
345	-18.79
346	-16.21
347	-15.32
348	-13.81
349	-13.55
350	-12.34
351	-12.34
352	-13.08
353	-13.66
354	-13.42
355	-13.36
356	-11.6
357	-11.42
358	-10.62
359	-10.57

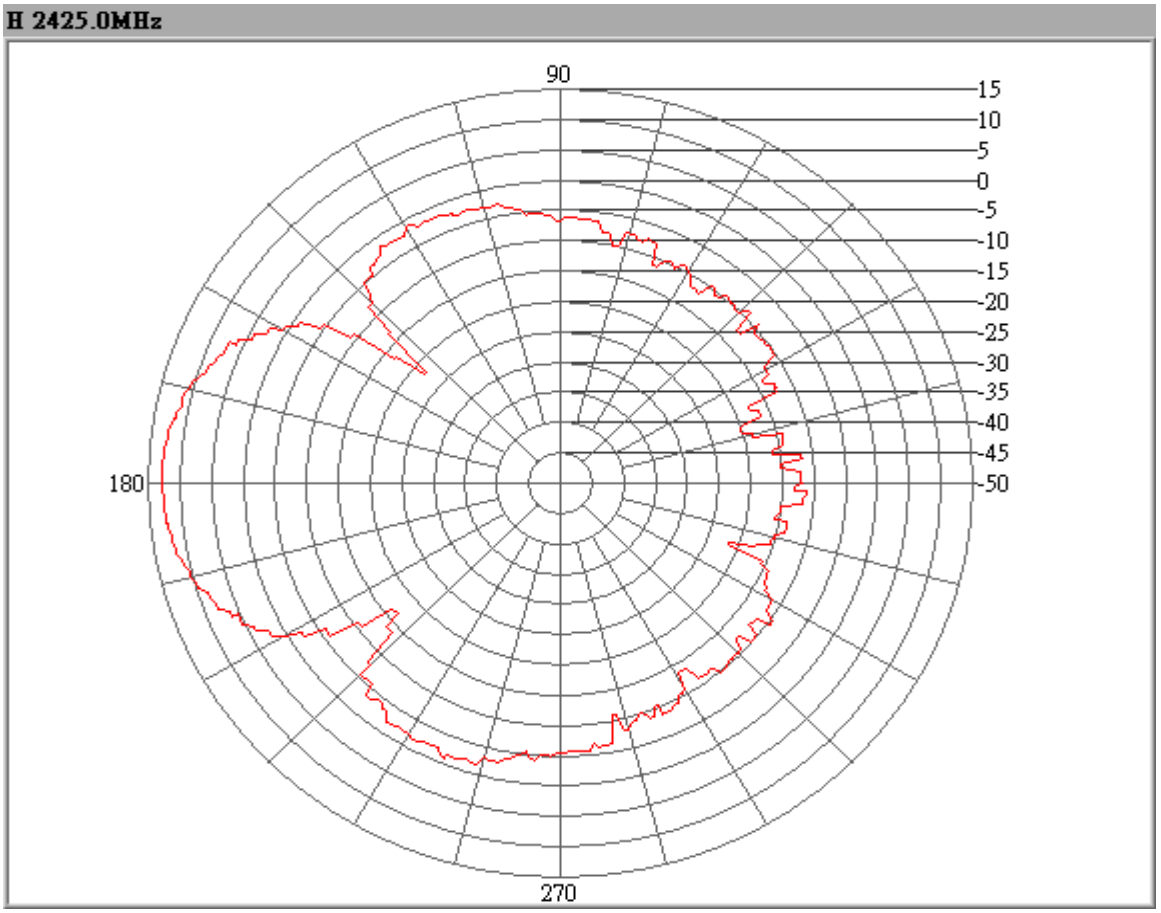
PA-23225 H-plane 2D Pattern @2425.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	12.93
Max Gain@Angle (degree)	180.24
Min Gain (dBi)	-22.09
Min Gain@Angle (degree)	138.9
Average Gain (dBi)	2.88
-3dB Angle L (degree)	-14.52
-3db Angle R (degree)	15.4
HPB (degree)	29.93
FBR (dB)	26.28







	H
0	-12.02
1	-12.01
2	-11.97
3	-11.97
4	-14.25
5	-15.31
6	-11.76
7	-12.28

8	-16.15
9	-15.59
10	-14.46
11	-14.46
12	-14.2
13	-14.1
14	-18.58
15	-18.81
16	-20.15
17	-19.97
18	-19.69
19	-17.55
20	-16.52
21	-16.52
22	-17.78
23	-16.74
24	-12.77
25	-12.58
26	-12.36
27	-13.4
28	-13.81
29	-12.63
30	-12.61
31	-11.99
32	-10.24
33	-10.17
34	-10.12
35	-10.19
36	-10.21
37	-10.6
38	-10.6
39	-10.06
40	-9.13
41	-11.25
42	-12.47
43	-9.46
44	-8.99
45	-10.3
46	-10.2
47	-9.95
48	-9.95
49	-9.67
50	-9.51
51	-10.48

52	-10.57
53	-9.85
54	-10.52
55	-12.02
56	-11.76
57	-11.55
58	-11.55
59	-10.07
60	-9.87
61	-9.22
62	-9.51
63	-10.17
64	-9.95
65	-9.79
66	-9.79
67	-11.22
68	-10.77
69	-7.72
70	-7.6
71	-7.36
72	-7.84
73	-8.12
74	-7.48
75	-7.38
76	-7.64
77	-9.89
78	-9.28
79	-8.18
80	-8.14
81	-8.11
82	-6.79
83	-6.5
84	-6.37
85	-6.37
86	-6.3
87	-6.15
88	-6.07
89	-6.03
90	-6.53
91	-6.62
92	-5.69
93	-5.61
94	-5.3
95	-5.3

96	-5.35
97	-5.38
98	-4.43
99	-4.3
100	-3.81
101	-3.62
102	-2.88
103	-2.95
104	-3.03
105	-3.03
106	-2.99
107	-2.98
108	-2.57
109	-2.64
110	-2.83
111	-2.62
112	-2.42
113	-2.01
114	-1.88
115	-1.88
116	-1.9
117	-1.97
118	-2.13
119	-1.69
120	-1.36
121	-2.16
122	-2.34
123	-2.31
124	-2.07
125	-1.94
126	-1.73
127	-2.53
128	-3.02
129	-3.45
130	-3.51
131	-4.72
132	-4.72
133	-5.33
134	-6.8
135	-7.51
136	-8.06
137	-12.28
138	-13.29
139	-22.09

140	-20.81
141	-16.7
142	-16.7
143	-11.76
144	-9.2
145	-4.67
146	-4.14
147	-1.24
148	-0.63
149	0.51
150	0.51
151	2.02
152	2.43
153	4.05
154	4.43
155	5.92
156	6.51
157	7.11
158	7.11
159	7.88
160	8.01
161	8.87
162	9.19
163	9.76
164	10.24
165	10.53
166	11
167	11.05
168	11.16
169	11.66
170	11.76
171	11.89
172	12.29
173	12.43
174	12.56
175	12.56
176	12.62
177	12.78
178	12.79
179	12.8
180	12.89
181	12.93
182	12.62
183	12.61

184	12.48
185	12.48
186	12.35
187	12.2
188	11.97
189	11.85
190	11.64
191	11.6
192	10.84
193	10.69
194	10.3
195	10.3
196	9.86
197	9.69
198	8.62
199	8.49
200	7.7
201	7.26
202	6.25
203	5.65
204	5.19
205	5.19
206	3.89
207	3.7
208	2.05
209	1.47
210	0.21
211	-1.34
212	-2.36
213	-5.41
214	-5.88
215	-6.4
216	-10.7
217	-12.66
218	-16.03
219	-16.31
220	-16.49
221	-13.95
222	-13.75
223	-12.72
224	-7.72
225	-6.59
226	-5.47
227	-5.5

228	-5.51
229	-3.51
230	-3.63
231	-4.15
232	-4.15
233	-3.75
234	-3.5
235	-2.12
236	-1.99
237	-2.31
238	-2.27
239	-2.16
240	-2.16
241	-1.96
242	-1.83
243	-2.05
244	-2.08
245	-2.39
246	-2.06
247	-1.16
248	-1.41
249	-1.62
250	-1.62
251	-2.07
252	-2.07
253	-1.84
254	-2.36
255	-3.13
256	-2.99
257	-2.92
258	-2.92
259	-3.85
260	-3.98
261	-4.62
262	-5.02
263	-5.61
264	-4.64
265	-4.17
266	-4.96
267	-5
268	-5.09
269	-5.42
270	-5.4
271	-5.38

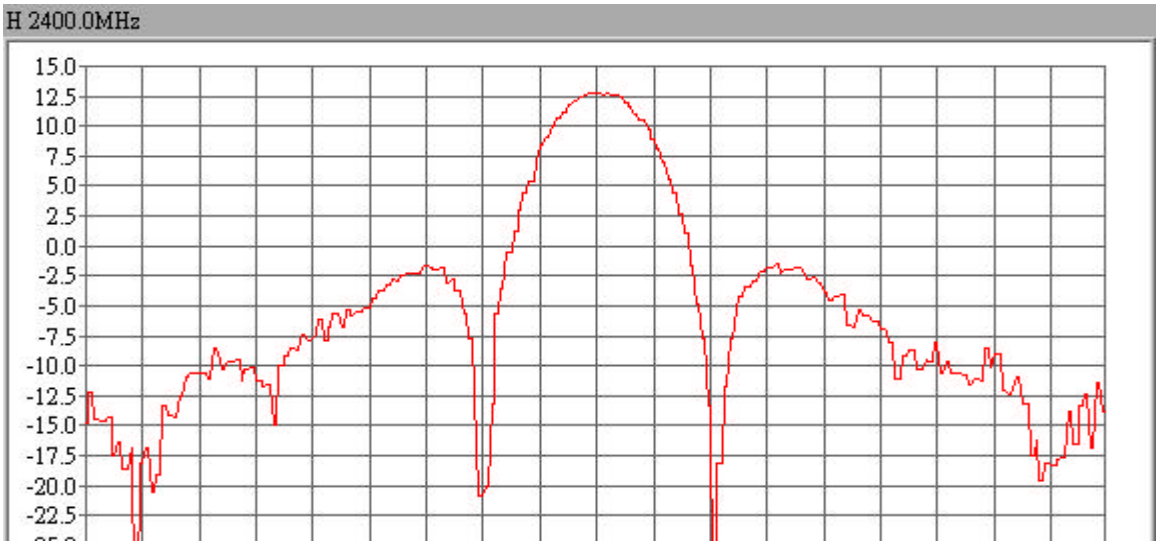
272	-5.63
273	-5.68
274	-5.71
275	-5.71
276	-6.13
277	-6.83
278	-6.36
279	-6.12
280	-6.18
281	-6.3
282	-10.96
283	-10.13
284	-7.99
285	-7.99
286	-8.65
287	-9.12
288	-9.84
289	-9.94
290	-8.63
291	-9.03
292	-10.16
293	-9.33
294	-8.57
295	-8.57
296	-9.22
297	-9.37
298	-10.26
299	-10.48
300	-10.8
301	-12.63
302	-13.59
303	-13.59
304	-11.2
305	-11.14
306	-10.97
307	-11.05
308	-11.14
309	-10.19
310	-9.94
311	-9.96
312	-10.31
313	-10.37
314	-10.48
315	-10.45

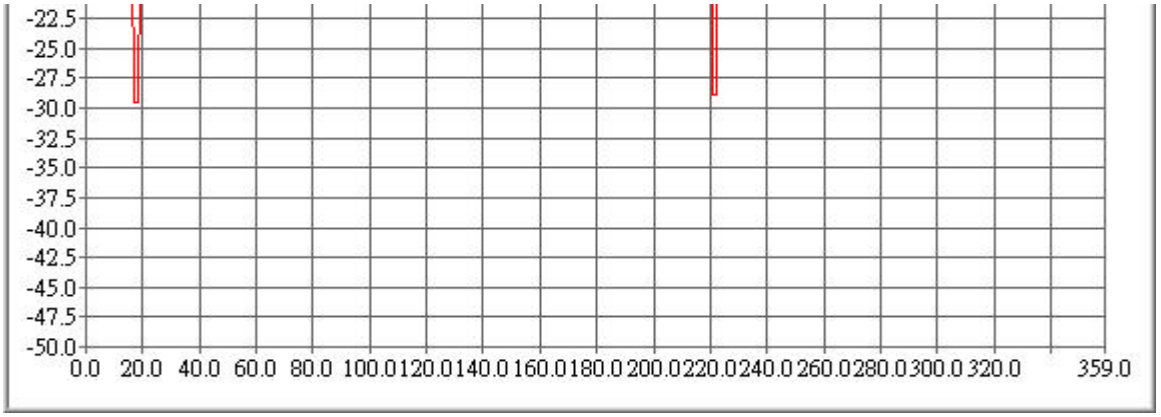
316	-10.42
317	-11.91
318	-12.13
319	-10.15
320	-10.15
321	-11.05
322	-12.2
323	-11.96
324	-11.88
325	-9.53
326	-9.8
327	-11.14
328	-11.14
329	-11.34
330	-11.45
331	-13.17
332	-13.36
333	-13.78
334	-13.9
335	-14.2
336	-14.2
337	-15.27
338	-15.78
339	-21.4
340	-21.44
341	-17.62
342	-16.83
343	-15.51
344	-15.51
345	-15.21
346	-15.15
347	-13.62
348	-13.66
349	-13.78
350	-14.68
351	-15.62
352	-15.13
353	-14.99
354	-14.91
355	-11.64
356	-11.48
357	-11.11
358	-12.19
359	-12.99

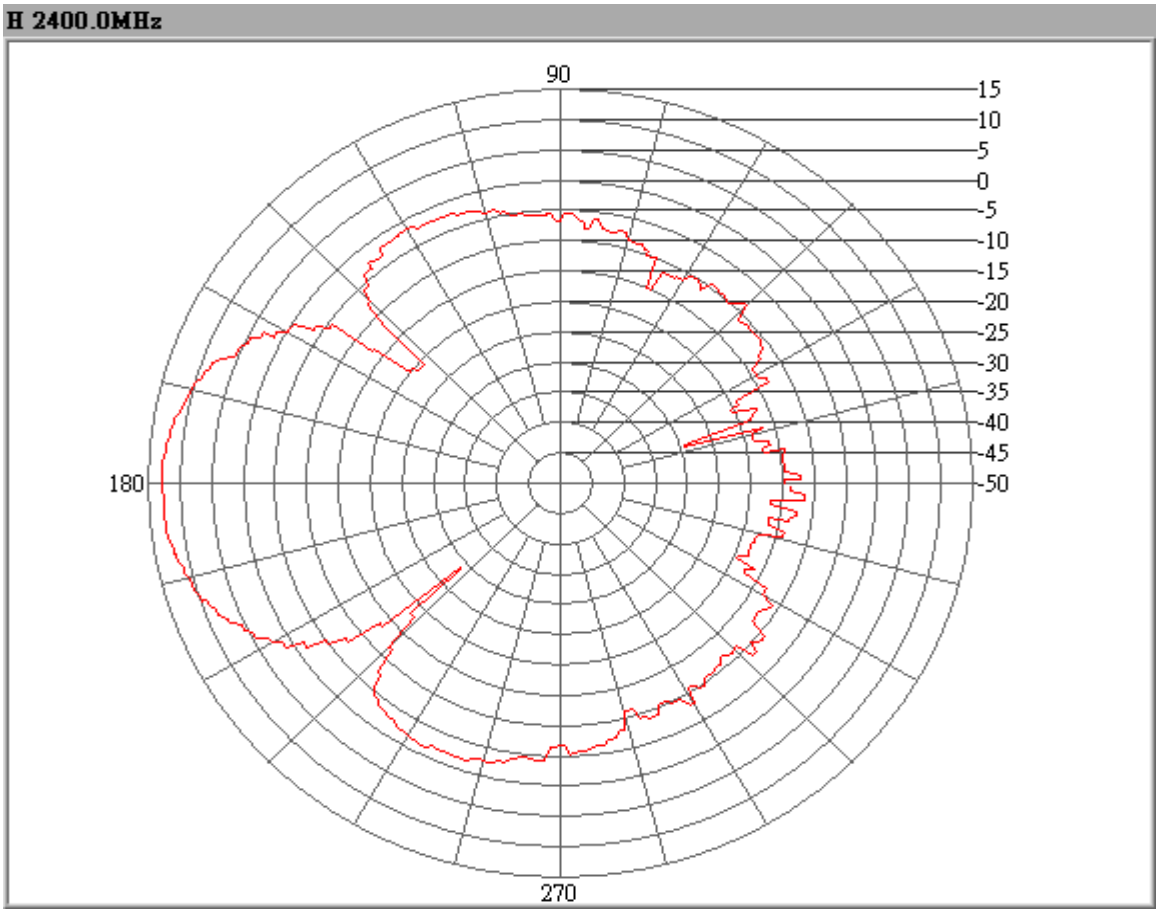
PA-23225 H-plane 2D Pattern @2400.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	12.72
Max Gain@Angle (degree)	177.33
Min Gain (dBi)	-29.49
Min Gain@Angle (degree)	17.37
Average Gain (dBi)	2.98
-3dB Angle L (degree)	-12.76
-3db Angle R (degree)	22.44
HPB (degree)	35.21
FBR (dB)	23.72







	H
0	-14.79
1	-13.38
2	-12.15
3	-14.01
4	-14.5
5	-14.63
6	-14.63
7	-14.54

8	-14.31
9	-15.91
10	-17.52
11	-16.69
12	-16.4
13	-18.66
14	-18.66
15	-18.07
16	-16.78
17	-24.27
18	-29.49
19	-19.91
20	-18.21
21	-16.8
22	-17.74
23	-20.5
24	-20.5
25	-19.62
26	-19.08
27	-14.07
28	-13.34
29	-14.17
30	-14.21
31	-14.31
32	-14.31
33	-13
34	-12.49
35	-10.97
36	-10.9
37	-10.61
38	-10.63
39	-10.66
40	-10.67
41	-10.67
42	-10.67
43	-11.09
44	-10.8
45	-8.58
46	-8.95
47	-9.56
48	-10.01
49	-10.27
50	-9.77
51	-9.67

52	-9.65
53	-9.44
54	-10.1
55	-11.26
56	-10.63
57	-10.28
58	-10.14
59	-10.13
60	-11.31
61	-11.31
62	-11.48
63	-11.7
64	-11.62
65	-11.6
66	-14.99
67	-14.29
68	-9.96
69	-9.96
70	-9.58
71	-9.24
72	-8.73
73	-8.6
74	-8.62
75	-8.33
76	-7.37
77	-7.37
78	-7.69
79	-7.86
80	-7.66
81	-7.05
82	-6.14
83	-6.52
84	-7.94
85	-7.39
86	-6.79
87	-5.94
88	-5.62
89	-5.62
90	-6.7
91	-6.37
92	-5.38
93	-5.59
94	-5.76
95	-5.58

96	-5.55
97	-5.49
98	-5.17
99	-5.16
100	-5.14
101	-4.67
102	-4.44
103	-3.83
104	-3.81
105	-3.7
106	-3.29
107	-3.09
108	-2.82
109	-2.85
110	-2.87
111	-2.5
112	-2.48
113	-2.31
114	-2.31
115	-2.31
116	-2.31
117	-2.34
118	-2.35
119	-1.6
120	-1.63
121	-1.78
122	-1.87
123	-1.97
124	-1.97
125	-1.88
126	-1.87
127	-3.12
128	-3.04
129	-2.83
130	-3.31
131	-3.75
132	-3.75
133	-5.59
134	-5.86
135	-7.69
136	-9.41
137	-12.39
138	-18
139	-20.93

140	-20.93
141	-20.06
142	-18.68
143	-13.21
144	-9.69
145	-5.7
146	-4.14
147	-3.54
148	-0.45
149	-0.45
150	0.02
151	1.28
152	2.19
153	3.01
154	4.09
155	4.37
156	5.33
157	5.33
158	5.87
159	6.97
160	7.83
161	8.46
162	8.99
163	9.14
164	10
165	10.07
166	10.63
167	10.8
168	11.12
169	11.12
170	11.6
171	11.77
172	12.06
173	12.11
174	12.47
175	12.52
176	12.61
177	12.68
178	12.72
179	12.72
180	12.71
181	12.69
182	12.6
183	12.65

184	12.72
185	12.63
186	12.59
187	12.59
188	12.43
189	12.31
190	11.9
191	11.74
192	11.58
193	11.16
194	11.02
195	10.45
196	10.44
197	10.31
198	9.78
199	9.39
200	8.92
201	8.36
202	8.17
203	6.95
204	6.72
205	5.48
206	5.48
207	4.88
208	4.4
209	2.91
210	2.62
211	1.01
212	0.33
213	-1.66
214	-1.66
215	-3.71
216	-4.83
217	-7.36
218	-7.71
219	-13.4
220	-17.28
221	-28.9
222	-23.26
223	-18.14
224	-18.14
225	-12.23
226	-11.51
227	-7.67

228	-7.02
229	-5.4
230	-4.77
231	-4.27
232	-3.56
233	-3.38
234	-3.33
235	-2.94
236	-2.73
237	-2.39
238	-2.21
239	-2.12
240	-1.84
241	-1.82
242	-1.74
243	-1.45
244	-1.82
245	-2.33
246	-2.13
247	-2.01
248	-2.01
249	-2.01
250	-1.82
251	-1.82
252	-2.04
253	-2.34
254	-2.63
255	-2.76
256	-2.6
257	-2.65
258	-3.1
259	-3.39
260	-3.93
261	-3.93
262	-4.38
263	-4.53
264	-4.19
265	-4.17
266	-4.1
267	-5.16
268	-6.56
269	-6.56
270	-6.68
271	-6.71

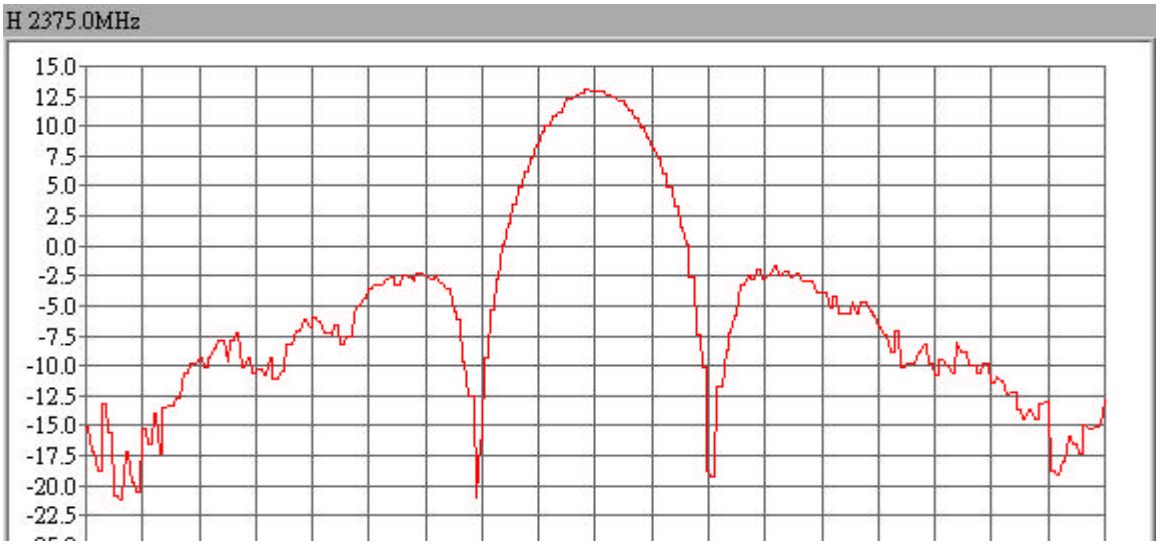
272	-5.3
273	-5.4
274	-5.75
275	-5.77
276	-5.79
277	-6.16
278	-6.25
279	-6.25
280	-6.91
281	-6.97
282	-7.12
283	-7.7
284	-8.11
285	-10.7
286	-11.05
287	-10.77
288	-9.16
289	-8.94
290	-8.63
291	-8.71
292	-8.75
293	-10.28
294	-10.36
295	-10.14
296	-9.5
297	-9.57
298	-9.62
299	-8.22
300	-8.02
301	-10.68
302	-10.41
303	-9.62
304	-9.62
305	-10.3
306	-10.66
307	-10.6
308	-10.61
309	-10.83
310	-11.11
311	-11.64
312	-11.64
313	-11.23
314	-11.09
315	-11.2

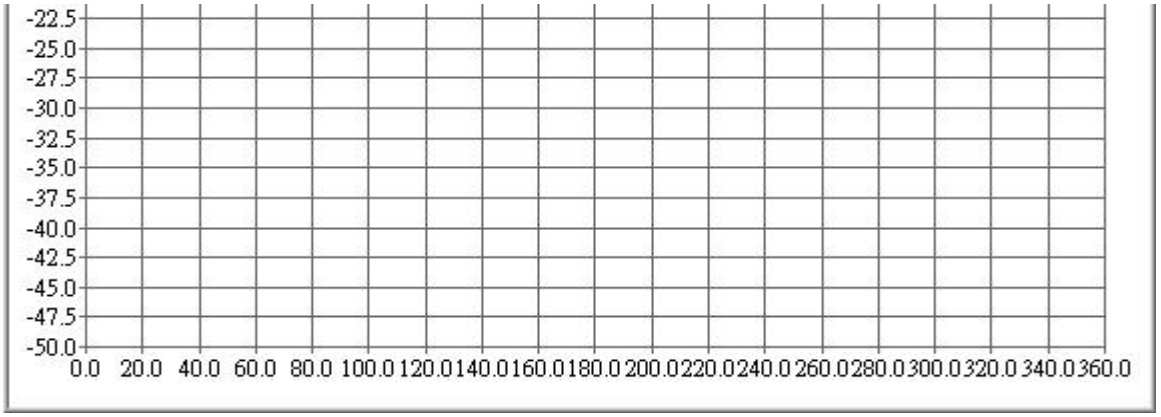
316	-10.83
317	-8.46
318	-9.15
319	-10.21
320	-9.51
321	-9.07
322	-9.07
323	-11.9
324	-12.07
325	-12.4
326	-12.08
327	-11.49
328	-11.2
329	-11.01
330	-12.88
331	-13.19
332	-13.72
333	-17.56
334	-17.04
335	-16.16
336	-18.3
337	-19.53
338	-18.3
339	-18.14
340	-18.22
341	-18.22
342	-18.07
343	-17.89
344	-17.75
345	-17.69
346	-13.85
347	-14.24
348	-16.57
349	-16.57
350	-14.79
351	-13.41
352	-12.58
353	-12.41
354	-16.83
355	-15.77
356	-11.43
357	-12.4
358	-13.83
359	-13.83

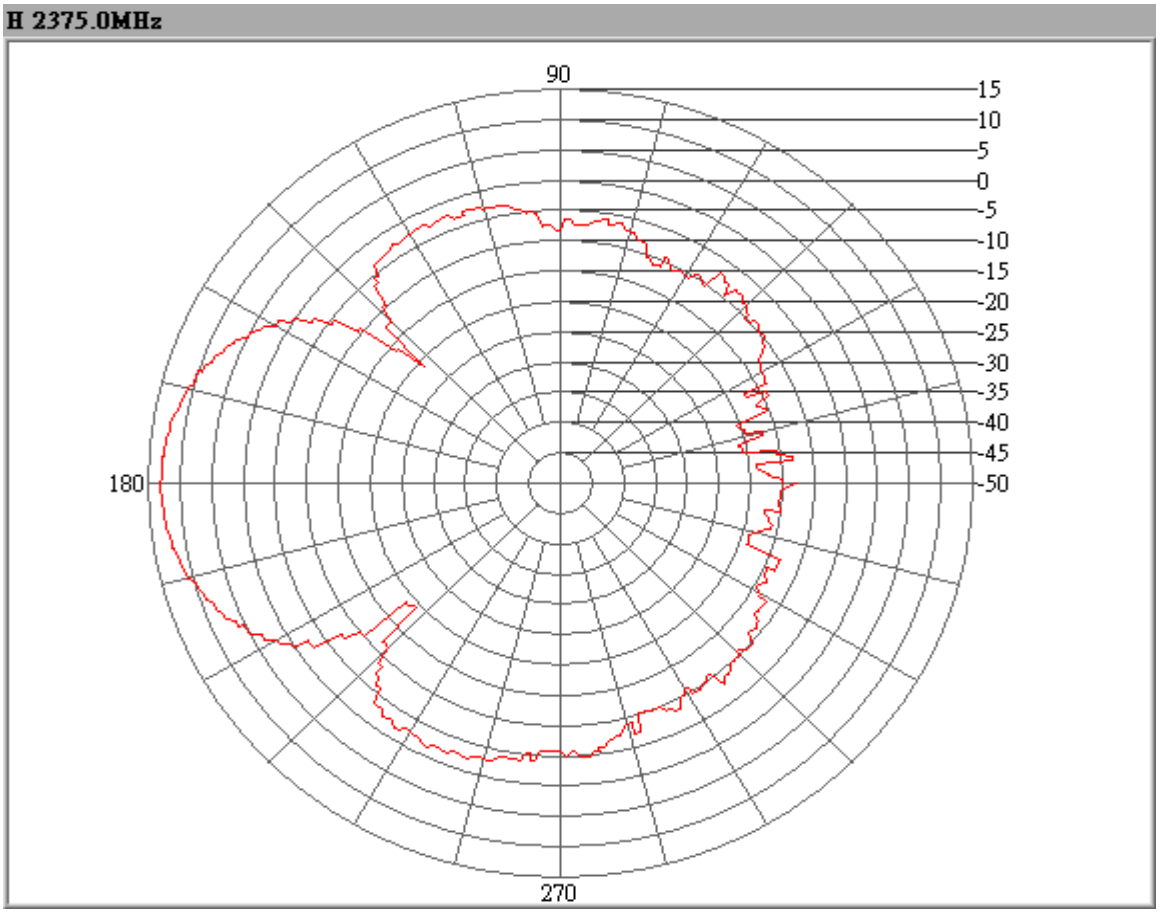
PA-23225 H-plane 2D Pattern @2375.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	13.03
Max Gain@Angle (degree)	176.4
Min Gain (dBi)	-21.25
Min Gain@Angle (degree)	11.63
Average Gain (dBi)	3.18
-3dB Angle L (degree)	-12.76
-3db Angle R (degree)	18.92
HPB (degree)	31.69
FBR (dB)	25.24







	H
0.3	-15.08
1	-15.08
2	-17.1
3	-17.27
4	-18.84
5	-18.84
6	-15.75
7	-13.11

8	-15.25
9	-15.64
10	-20.81
11	-20.93
12	-21.25
13	-21.25
14	-18.25
15	-17.1
16	-19.8
17	-19.94
18	-20.62
19	-18.35
20	-15.33
21	-15.33
22	-16.37
23	-16.51
24	-13.97
25	-14.96
26	-17.26
27	-15.26
28	-13.55
29	-13.39
30	-13.36
31	-13.29
32	-12.77
33	-12.33
34	-11.53
35	-10.94
36	-10.54
37	-9.9
38	-9.78
39	-9.74
40	-9.32
41	-9.54
42	-10.15
43	-9.74
44	-9.37
45	-8.71
46	-8.55
47	-7.91
48	-7.91
49	-8.5
50	-9.71
51	-8.65

52	-7.9
53	-7.32
54	-7.19
55	-10.19
56	-9.99
57	-9.35
58	-9.35
59	-10.11
60	-10.55
61	-10.38
62	-10.36
63	-10.77
64	-10.41
65	-9.41
66	-10.35
67	-11.09
68	-11.09
69	-10.51
70	-10.19
71	-8.28
72	-8.23
73	-8.14
74	-7.44
75	-7.12
76	-7.12
77	-6.1
78	-6.25
79	-6.74
80	-6.34
81	-5.93
82	-6.25
83	-6.35
84	-7.26
85	-7.26
86	-7.32
87	-7.43
88	-6.9
89	-6.54
90	-8.1
91	-8.26
92	-7.5
93	-7.5
94	-6.7
95	-5.45

96	-5.18
97	-5.03
98	-4.41
99	-4.32
100	-3.51
101	-3.44
102	-3.24
103	-3.24
104	-3.19
105	-3.18
106	-2.82
107	-2.79
108	-2.68
109	-2.95
110	-3.27
111	-3.27
112	-2.54
113	-2.46
114	-2.69
115	-2.77
116	-2.98
117	-2.57
118	-2.29
119	-2.29
120	-2.66
121	-2.68
122	-2.79
123	-2.67
124	-2.48
125	-2.88
126	-3.07
127	-3.48
128	-3.51
129	-3.91
130	-5.44
131	-5.78
132	-6.12
133	-8.83
134	-9.71
135	-12.5
136	-12.5
137	-15.15
138	-21.08
139	-18.34

140	-16.16
141	-10.49
142	-9.39
143	-5.4
144	-4.77
145	-2.72
146	-2.72
147	-0.93
148	0.07
149	1.68
150	1.89
151	3.44
152	3.79
153	4.87
154	4.87
155	5.86
156	6.25
157	7.28
158	7.43
159	8.43
160	8.75
161	9.5
162	9.81
163	10.08
164	10.08
165	10.8
166	10.87
167	11.17
168	11.35
169	11.78
170	12.08
171	12.27
172	12.27
173	12.62
174	12.65
175	12.75
176	12.9
177	13.03
178	12.91
179	12.88
180	12.97
181	12.97
182	12.96
183	12.94

184	12.74
185	12.62
186	12.51
187	12.47
188	12.13
189	12.13
190	11.97
191	11.79
192	11.43
193	11.34
194	10.69
195	10.49
196	9.86
197	9.86
198	9.34
199	9.03
200	8.33
201	8.18
202	7.39
203	7.07
204	6.04
205	5.51
206	4.98
207	4.98
208	3.53
209	3.33
210	1.57
211	1.12
212	0.07
213	-1.4
214	-2.55
215	-2.55
216	-7.38
217	-7.78
218	-10.06
219	-13.91
220	-18.73
221	-19.13
222	-19.27
223	-11.99
224	-11.81
225	-11.12
226	-8.7
227	-8.03

228	-7.25
229	-6.2
230	-5.8
231	-3.35
232	-3.33
233	-3.1
234	-2.47
235	-2.6
236	-2.71
237	-2.07
238	-1.91
239	-2.78
240	-2.69
241	-2.37
242	-2.37
243	-1.98
244	-1.72
245	-2.4
246	-2.45
247	-2.09
248	-2.22
249	-2.55
250	-2.55
251	-2.39
252	-2.3
253	-2.86
254	-2.91
255	-2.88
256	-2.88
257	-2.91
258	-3.49
259	-3.89
260	-3.89
261	-3.94
262	-4.18
263	-5.15
264	-4.63
265	-4.14
266	-5.43
267	-5.66
268	-5.66
269	-5.73
270	-5.41
271	-4.74

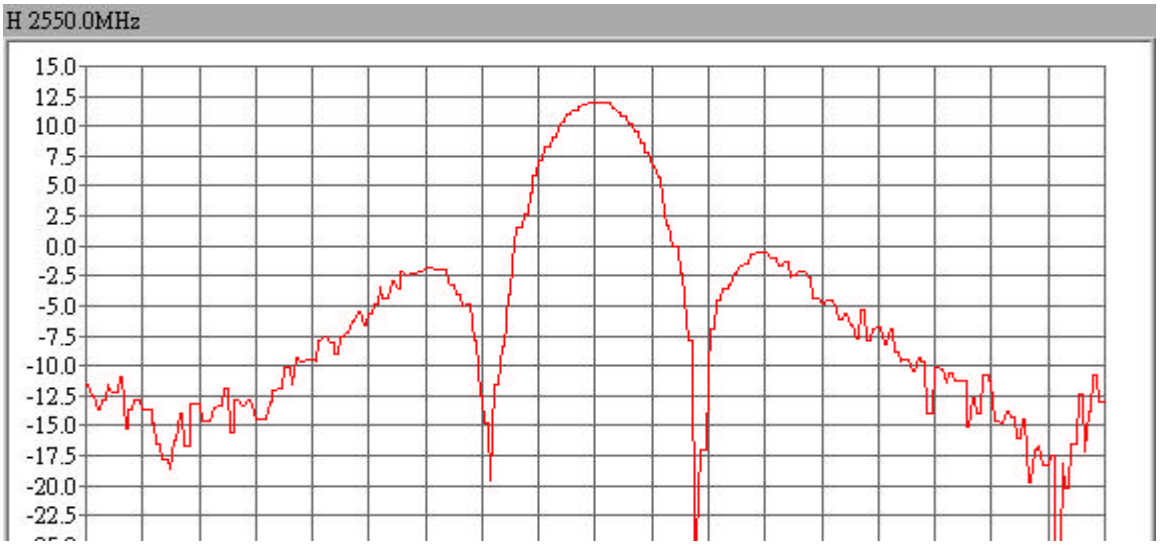
272	-5.29
273	-5.62
274	-4.76
275	-4.68
276	-4.84
277	-5.51
278	-5.68
279	-5.87
280	-6.54
281	-6.83
282	-7.38
283	-7.57
284	-8.81
285	-8.81
286	-8.05
287	-7.15
288	-9.25
289	-10.06
290	-9.89
291	-9.89
292	-9.88
293	-9.5
294	-8.92
295	-8.92
296	-8.29
297	-8.16
298	-9.82
299	-10.03
300	-10.71
301	-10.04
302	-9.46
303	-9.46
304	-10
305	-10.1
306	-10.62
307	-9.62
308	-8.01
309	-8.58
310	-8.89
311	-8.89
312	-9.96
313	-9.97
314	-9.98
315	-10.25

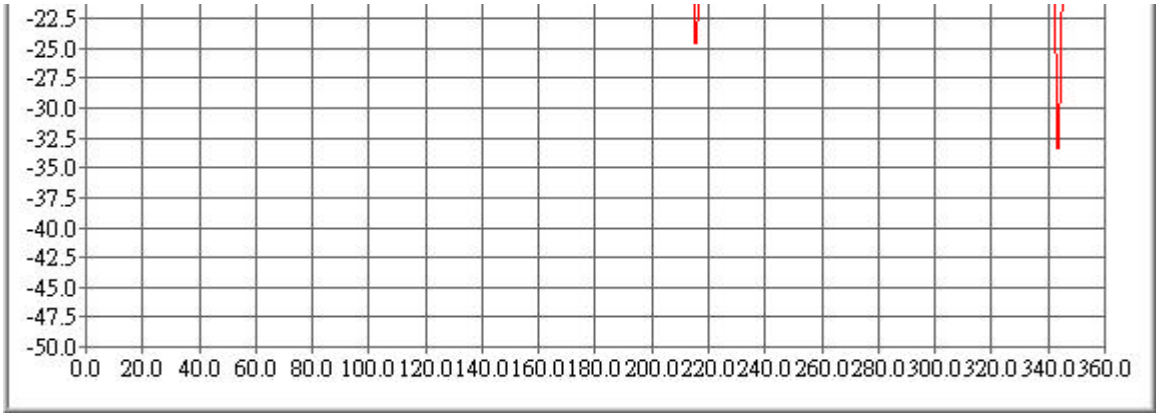
316	-10.59
317	-10
318	-9.81
319	-9.91
320	-11.47
321	-11.28
322	-10.92
323	-11.11
324	-11.21
325	-12.32
326	-12.45
327	-12.21
328	-12.21
329	-12.83
330	-13.61
331	-14.29
332	-14.53
333	-13.69
334	-13.82
335	-14.53
336	-14.53
337	-13.76
338	-13.16
339	-13.1
340	-13.08
341	-18.81
342	-18.85
343	-19.12
344	-18.67
345	-17.96
346	-17.96
347	-16.4
348	-15.96
349	-16.57
350	-16.68
351	-17.36
352	-16.32
353	-14.99
354	-15.23
355	-15.32
356	-15.32
357	-15.17
358	-14.87
359	-14.19

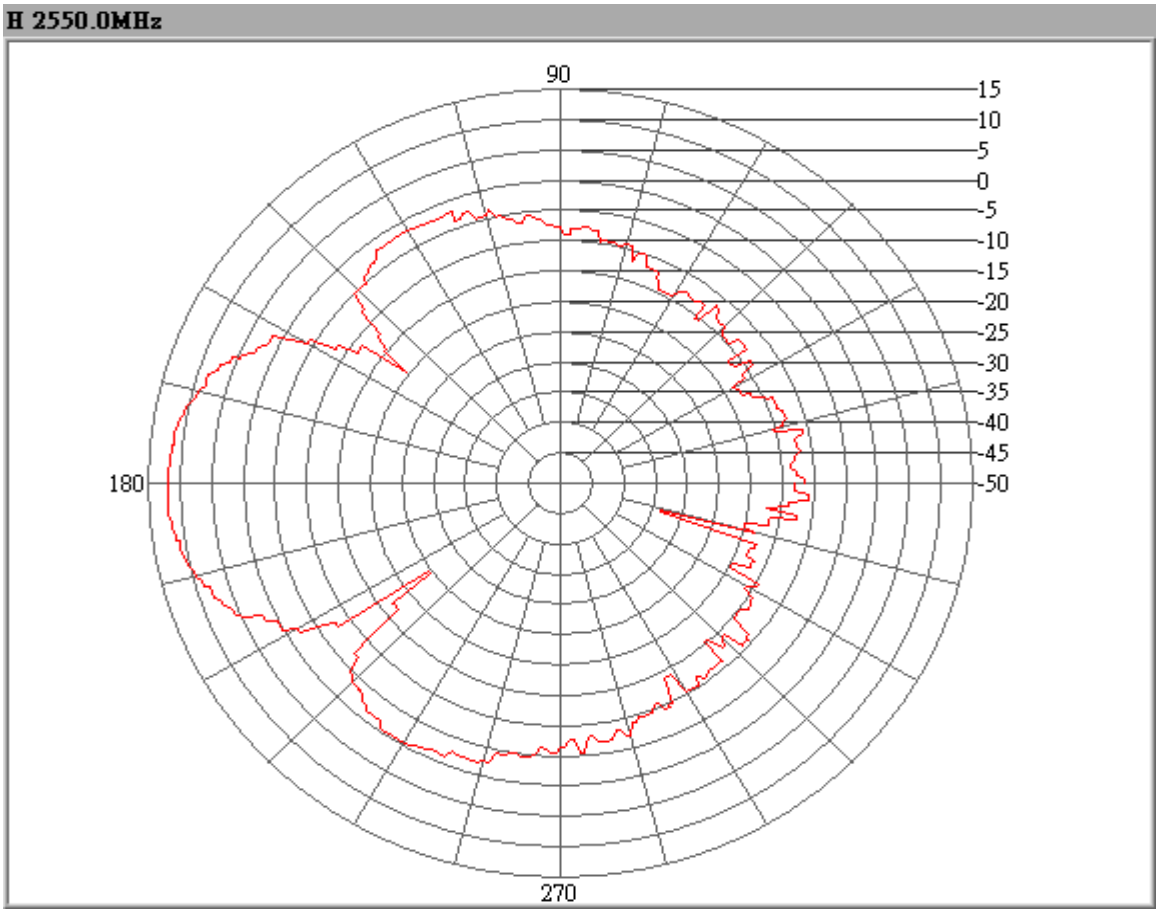
PA-23225 H-plane 2D Pattern @2550.0MHz

Date / Time : 2009117 / 18:12
Software Version : V1.2
Manufacturer :
Measurement Distance : 8M*4M*4M
Project Number :
Operator Name : Edison
Model Name : PA-23225 H-plane
Serial Number :
Temperature : 59
Humidity : 20

	H
Max Gain (dBi)	11.96
Max Gain@Angle (degree)	178.01
Min Gain (dBi)	-33.43
Min Gain@Angle (degree)	342.76
Average Gain (dBi)	1.94
-3dB Angle L (degree)	-12.76
-3db Angle R (degree)	17.16
HPB (degree)	29.93
FBR (dB)	26.49







	H
0	-11.54
1	-11.54
2	-12.32
3	-12.6
4	-13.61
5	-13.58
6	-12.81
7	-12.37

8	-11.63
9	-12.06
10	-12.28
11	-12.28
12	-10.9
13	-11.65
14	-15.26
15	-14.52
16	-13.59
17	-13.04
18	-12.84
19	-12.85
20	-13.64
21	-13.66
22	-13.7
23	-14.25
24	-14.74
25	-16.16
26	-16.51
27	-17.79
28	-17.79
29	-18.09
30	-18.64
31	-17.2
32	-16.19
33	-14.21
34	-14.04
35	-16.66
36	-16.66
37	-15.04
38	-13.18
39	-13.17
40	-13.16
41	-14.68
42	-14.68
43	-14.66
44	-14.17
45	-13.53
46	-13.53
47	-13.33
48	-13.3
49	-11.83
50	-12.83
51	-15.63

52	-14.1
53	-12.89
54	-12.89
55	-13.25
56	-13.22
57	-12.9
58	-13.02
59	-13.21
60	-14.06
61	-14.47
62	-14.47
63	-14.47
64	-14.14
65	-13.05
66	-12.53
67	-12.03
68	-11.86
69	-11.82
70	-10.11
71	-10.11
72	-10.57
73	-11.6
74	-10.23
75	-9.3
76	-9.65
77	-9.71
78	-9.46
79	-9.46
80	-9.53
81	-9.63
82	-8.53
83	-7.94
84	-7.53
85	-7.54
86	-8.07
87	-8.07
88	-8.56
89	-9.03
90	-7.93
91	-7.57
92	-7.32
93	-7.2
94	-6.32
95	-6.03

96	-5.57
97	-5.57
98	-6.4
99	-6.63
100	-5.63
101	-5.49
102	-4.9
103	-4.28
104	-3.48
105	-4.11
106	-4.43
107	-4.43
108	-2.87
109	-3
110	-3.58
111	-2.94
112	-2.16
113	-2.38
114	-2.5
115	-2.35
116	-2.33
117	-2.29
118	-2.05
119	-1.98
120	-1.88
121	-1.87
122	-1.86
123	-1.89
124	-1.9
125	-1.96
126	-1.96
127	-2.33
128	-2.89
129	-3.11
130	-3.21
131	-3.93
132	-4.06
133	-5.02
134	-4.97
135	-4.86
136	-4.86
137	-6.95
138	-7.87
139	-12.29

140	-12.75
141	-14.72
142	-16.36
143	-19.54
144	-14.89
145	-11.55
146	-11.55
147	-8.31
148	-7.76
149	-4
150	-2.84
151	-1.3
152	0.68
153	1.53
154	1.53
155	2.74
156	3.14
157	4.44
158	5.06
159	5.8
160	6.81
161	7.2
162	8.24
163	8.26
164	8.4
165	9.04
166	9.33
167	9.73
168	10.12
169	10.31
170	10.91
171	10.99
172	11.36
173	11.36
174	11.46
175	11.57
176	11.71
177	11.77
178	11.96
179	11.96
180	11.93
181	11.93
182	11.93
183	11.93

184	11.92
185	11.92
186	11.54
187	11.48
188	11.21
189	11.01
190	10.77
191	10.77
192	10.31
193	10.21
194	9.5
195	9.27
196	8.61
197	8.22
198	7.87
199	7.87
200	6.83
201	6.7
202	5.67
203	5.22
204	4.17
205	2.89
206	1.76
207	0.39
208	-0.01
209	-0.18
210	-2.3
211	-3.62
212	-6.06
213	-7.16
214	-7.85
215	-21.99
216	-24.62
217	-16.98
218	-16.98
219	-14.49
220	-10.74
221	-8.22
222	-7
223	-4.6
224	-4.42
225	-3.55
226	-3.55
227	-3.37

228	-3.25
229	-2.45
230	-2.32
231	-1.59
232	-1.57
233	-1.51
234	-1.51
235	-0.88
236	-0.62
237	-0.58
238	-0.56
239	-0.49
240	-0.56
241	-0.68
242	-0.92
243	-1.08
244	-1.08
245	-1.71
246	-1.66
247	-1.32
248	-1.75
249	-2.55
250	-2.45
251	-2.38
252	-2.15
253	-2.12
254	-2.17
255	-2.59
256	-3.27
257	-4.41
258	-4.37
259	-4.35
260	-4.81
261	-4.86
262	-4.52
263	-4.52
264	-4.75
265	-5.2
266	-5.79
267	-6.21
268	-5.7
269	-5.6
270	-6.56
271	-6.83

272	-7.78
273	-7.78
274	-6.23
275	-5.36
276	-7.64
277	-7.94
278	-6.99
279	-6.93
280	-6.78
281	-6.78
282	-7.86
283	-8.24
284	-6.94
285	-7.29
286	-8.86
287	-9.21
288	-9.68
289	-9.52
290	-9.43
291	-9.43
292	-10.53
293	-10.28
294	-9.3
295	-9.48
296	-9.69
297	-12.74
298	-14.01
299	-14.01
300	-10.17
301	-10.19
302	-10.26
303	-10.75
304	-11.47
305	-10.86
306	-10.55
307	-11.15
308	-11.21
309	-11.21
310	-11.24
311	-13.02
312	-15.15
313	-13.34
314	-12.75
315	-13.98

316	-13.58
317	-10.77
318	-10.77
319	-11
320	-11.22
321	-13.9
322	-14.62
323	-14.74
324	-14.59
325	-13.89
326	-14.06
327	-14.28
328	-14.28
329	-15.38
330	-16.09
331	-15.01
332	-14.53
333	-19.75
334	-19.48
335	-17.06
336	-16.96
337	-16.78
338	-17.68
339	-18.25
340	-18.25
341	-17.47
342	-19.62
343	-33.43
344	-27.49
345	-18.22
346	-19.54
347	-20.22
348	-16.82
349	-16.48
350	-15.84
351	-12.37
352	-14.34
353	-17.24
354	-14.87
355	-13.75
356	-11.04
357	-10.94
358	-12.95
359	-12.95