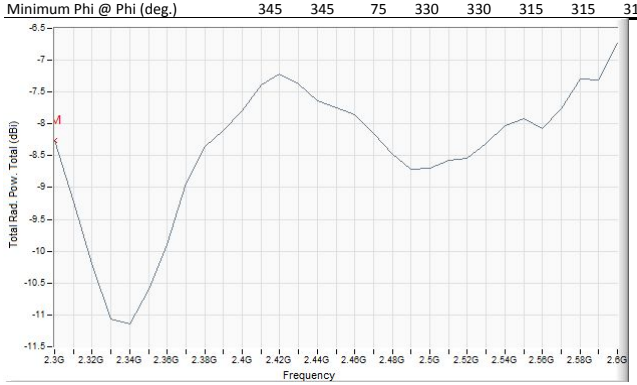
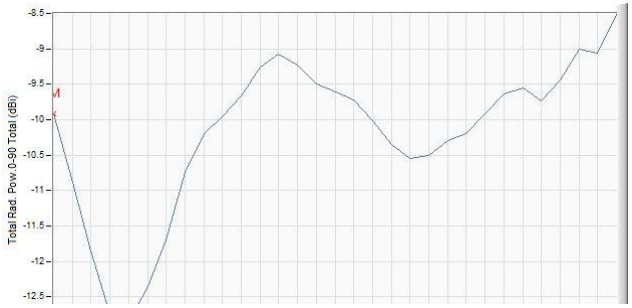
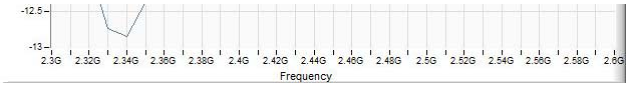
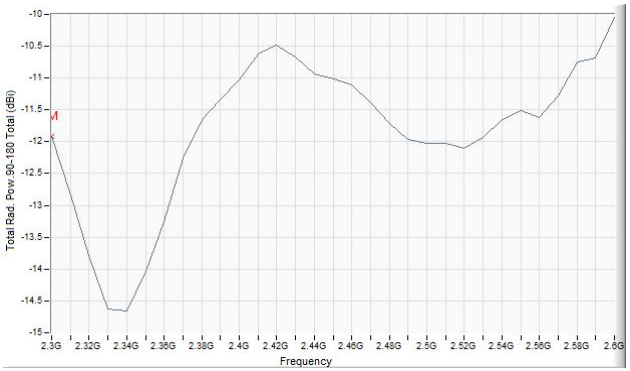
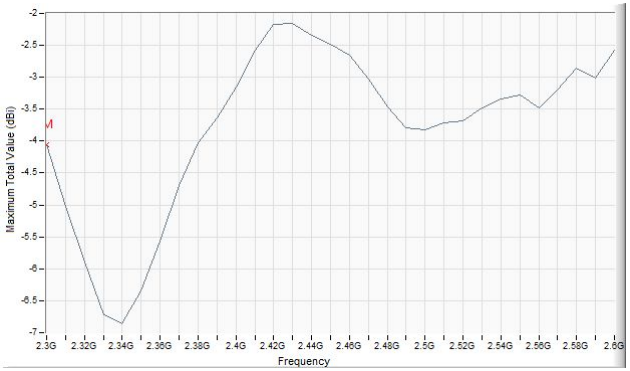
Frequency	2.3G	2.31G	2.32G	2.33G	2.34G	2.35G	2.36G	2.37G	2.38G	2.39G	2.4G	2.41G	2.42G	2.43G	2.44G	2.45G	2.46G	2.47G	2.48G	2.49G	2.5G	2.51G	2.52G	2.53G	2.54G	2.55G	2.56G	2.57G	2.58G	2.59G	2.6G
Total Rad. Pow. Total (dBi)	-8.26	-9.22	-10.19	-11.06	-11.14	-10.6	-9.9	-8.93	-8.36	-8.1	-7.8	-7.39	-7.22	-7.38	-7.64	-7.75	-7.86	-8.15	-8.48	-8.71	-8.7	-8.57	-8.54	-8.3	-8.03	-7.91	-8.07	-7.76	-7.29	-7.31	-6.74
Total Rad. Pow.0-90 Total (dBi)	-9.91	-10.88	-11.85	-12.73	-12.84	-12.35	-11.69	-10.74	-10.19	-9.96	-9.67	-9.26	-9.07	-9.23	-9.49	-9.61	-9.72	-10.02	-10.35	-10.55	-10.5	-10.3	-10.2	-9.91	-9.64	-9.55	-9.73	-9.44	-9.01	-9.06	-8.51
Total Rad. Pow.90-180 Total (dBi)	-11.91	-12.83	-13.79	-14.63	-14.65	-14.03	-13.26	-12.26	-11.65	-11.34	-11.03	-10.63	-10.48	-10.67	-10.94	-11.02	-11.11	-11.38	-11.72	-11.97	-12.03	-12.03	-12.1	-11.93	-11.65	-11.51	-11.62	-11.27	-10.74	-10.69	-10.05
Maximum Total Value (dBi)	-4.06	-5.02	-5.9	-6.72	-6.86	-6.34	-5.57	-4.7	-4.02	-3.63	-3.16	-2.57	-2.17	-2.16	-2.35	-2.49	-2.65	-3.03	-3.47	-3.79	-3.82	-3.72	-3.69	-3.48	-3.34	-3.27	-3.48	-3.2	-2.86	-3.02	-2.57
Maximum Total @ Theta (deg.)	0	0	0	0	0	15	15	15	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	75	75	75	75	75	75
Maximum Total @ Phi (deg.)	120	120	120	120	120	45	45	45	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	270	270	270	270	270	285
Minimum Total Value (dBi)	-19.14	-20.46	-21.55	-22.37	-22.53	-22.44	-22.34	-22.08	-22.11	-22.04	-21.73	-21.38	-21.44	-22.02	-23.08	-24.07	-24.91	-25.94	-26.78	-27.74	-29.04	-30.02	-30.99	-31.13	-30.11	-27.68	-26.51	-25.27	-23.68	-23.32	-21.1
Minimum Total @ Theta (deg.)	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Minimum Total @ Phi (deg.)	180	180	180	180	180	180	180	180	180	180	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165
Ant. Port Inp. Pow. Total (dBi)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak EIRP Total (dBi)	-4.06	-5.02	-5.9	-6.72	-6.86	-6.34	-5.57	-4.7	-4.02	-3.63	-3.16	-2.57	-2.17	-2.16	-2.35	-2.49	-2.65	-3.03	-3.47	-3.79	-3.82	-3.72	-3.69	-3.48	-3.34	-3.27	-3.48	-3.2	-2.86	-3.02	-2.57
Directivity Total (dBi)	4.2	4.2	4.29	4.34	4.28	4.26	4.33	4.23	4.34	4.47	4.64	4.82	5.05	5.22	5.29	5.26	5.21	5.12	5.01	4.92	4.88	4.85	4.85	4.82	4.69	4.64	4.59	4.56	4.43	4.29	4.17
Efficiency Total (dB)	-8.26	-9.22	-10.19	-11.06	-11.14	-10.6	-9.9	-8.93	-8.36	-8.1	-7.8	-7.39	-7.22	-7.38	-7.64	-7.75	-7.86	-8.15	-8.48	-8.71	-8.7	-8.57	-8.54	-8.3	-8.03	-7.91	-8.07	-7.76	-7.29	-7.31	-6.74
Efficiency Total (%)	14.93	11.97	9.57	7.83	7.69	8.71	10.23	12.79	14.59	15.49	16.6	18.24	18.97	18.28	17.22	16.79	16.37	15.31	14.19	13.46	13.49	13.9	14	14.79	15.74	16.18	15.6	16.75	18.66	18.58	21.18
Gain Total (dBi)	-4.06	-5.02	-5.9	-6.72	-6.86	-6.34	-5.57	-4.7	-4.02	-3.63	-3.16	-2.57	-2.17	-2.16	-2.35	-2.49	-2.65	-3.03	-3.47	-3.79	-3.82	-3.72	-3.69	-3.48	-3.34	-3.27	-3.48	-3.2	-2.86	-3.02	-2.57
NHPIS +/-30 Total (dBi)	-11.17	-12.09	-13.02	-13.88	-13.96	-13.45	-12.78	-11.82	-11.26	-11.03	-10.74	-10.33	-10.13	-10.28	-10.53	-10.61	-10.7	-10.99	-11.31	-11.52	-11.48	-11.28	-11.17	-10.85	-10.56	-10.44	-10.6	-10.28	-9.82	-9.85	-9.28
NHPIS +/-45 Total (dBi)	-9.64	-10.58	-11.53	-12.39	-12.47	-11.95	-11.27	-10.31	-9.75	-9.51	-9.23	-8.82	-8.64	-8.8	-9.06	-9.17	-9.26	-9.55	-9.88	-10.1	-10.06	-9.89	-9.81	-9.52	-9.23	-9.12	-9.29	-8.98	-8.54	-8.58	-8.02
Maximum Theta Value (dBi)	-5.2	-6.19	-7.56	-8.65	-8.72	-8.02	-7.37	-6.76	-6.38	-6.19	-6.12	-6.16	-6	-6.14	-6.27	-6.14	-6.15	-6.35	-6.57	-6.69	-6.73	-6.82	-6.98	-6.74	-6.16	-5.88	-6.06	-6.16	-6	-6.24	-5.87
Maximum Theta @ Theta (deg.)	15	15	15	15	15	45	45	45	45	45	45	45	90	120	120	120	120	120	120	120	120	120	15	15	15	15	15	15	15	0	60
Maximum Theta @ Phi (deg.)	30	30	30	30	30	60	60	60	60	60	60	60	330	330	330	330	345	345	345	345	345	345	0	0	15	15	15	15	15	45	210
Minimum Theta Value (dBi)	-39.7	-38.45	-40.59	-38.84	-39.61	-40.1	-36.88	-37.59	-37.07	-37.3	-39.46	-40.89	-38.7	-39.63	-38.91	-39.08	-46.63	-34.36	-33.34	-39.16	-45.34	-42.63	-44.01	-35.17	-32.26	-30.44	-28.56	-28.84	-30.38	-31.42	-35.94
Minimum Theta @ Theta (deg.)	150	150	90	90	90	90	30	30	30	90	90	90	90	150	150	105	105	105	30	30	90	150	150	150	90	90	90	150	150	150	90
Minimum Theta @ Phi (deg.)	30	30	0	15	195	195	90	90	90	180	180	180	180	135	135	45	45	45	75	75	45	135	135	135	165	165	165	135	135	135	45
Maximum Phi Value (dBi)	-4.49	-5.49	-6.35	-7.19	-7.4	-7.08	-6.29	-5.08	-4.46	-4.22	-3.92	-3.45	-3.13	-3.2	-3.49	-3.78	-4.02	-4.49	-5.06	-5.49	-5.48	-5.28	-5.09	-4.75	-4.65	-4.66	-4.94	-4.5	-4.1	-4.22	-3.47
Maximum Phi @ Theta (deg.)	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	75	75
Maximum Phi @ Phi (deg.)	105	105	105	105	105	300	300	315	315	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	90	90
Minimum Phi Value (dBi)	-44.27	-38.27	-40.33	-42.56	-39.18	-35.55	-41.31	-41.87	-40.17	-45.94	-33.44	-32.95	-34.98	-34.81	-32.88	-33	-35.17	-40.58	-44.48	-40.45	-37.68	-36.9	-38.21	-38.39	-37.63	-40.23	-41.97	-44.87	-43.28	-41.12	-39.35
Minimum Phi @ Theta (deg.)	135	135	90	135	135	150	150	150	150	165	165	135	135	120	135	135	150	105	150	135	135	90	135	135	135	135	135	135	135	135	135
Minimum Phi @ Phi (deg.)	345	345	75	330	330	315	315	315	315	315	300	345	345	195	345	345	330	60	330	345	345	165	330	330	330	330	330	330	330	330	330

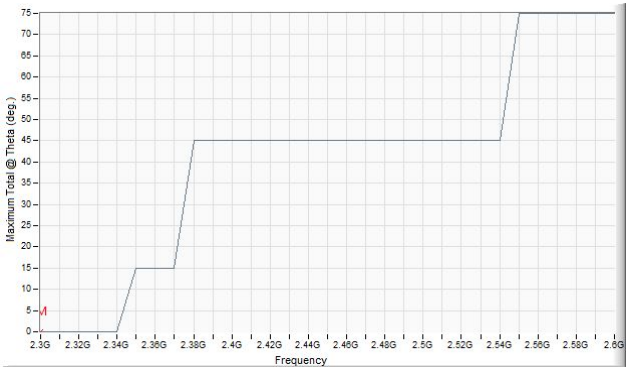


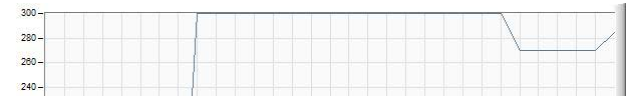


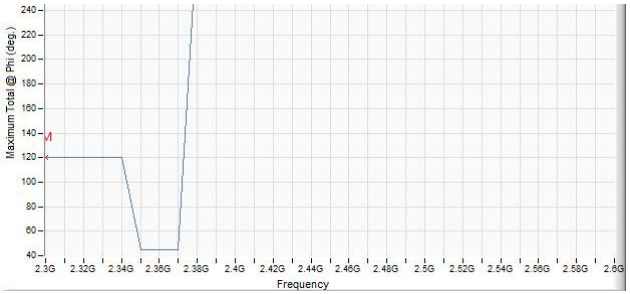

-12.5
-13
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

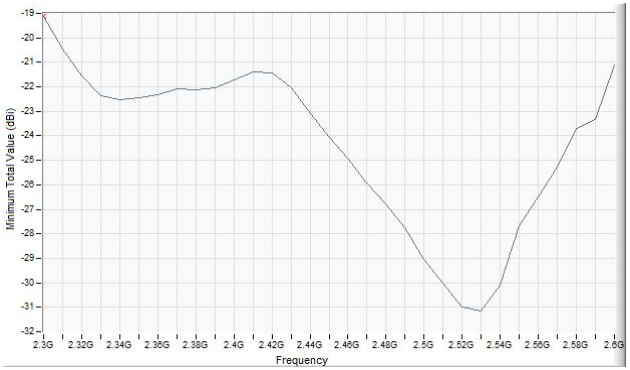

Total Rad. Pow 90-180 Total (dBi)
-10
-10.5
-11
-11.5
-12
-12.5
-13
-13.5
-14
-14.5
-15
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

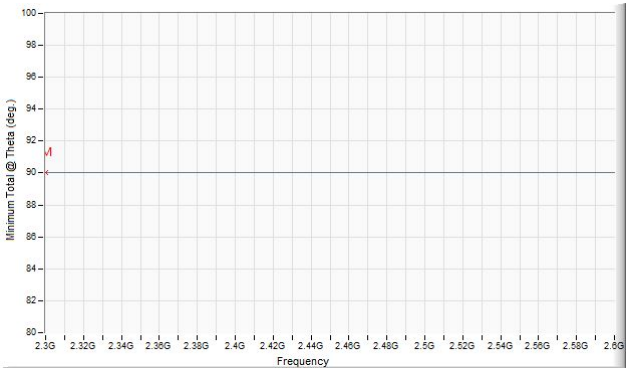

Maximum Total Value (dBi)
-2
-2.5
-3
-3.5
-4
-4.5
-5
-5.5
-6
-6.5
-7
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency


Maximum Total @ Theta (deg.)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

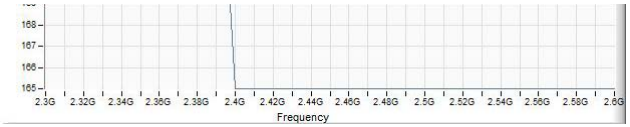

300
280
260
240

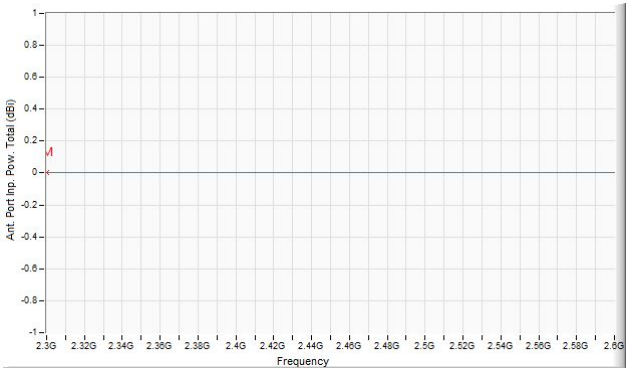

Maximum Total @ Phi (deg.)
240
220
200
180
160
140
120
100
80
60
40
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

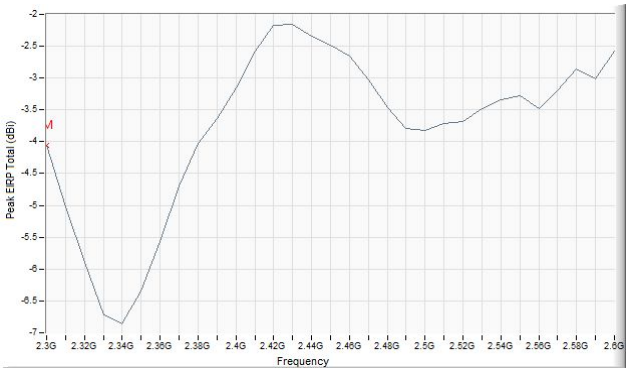

Minimum Total Value (dBi)
-19
-20
-21
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

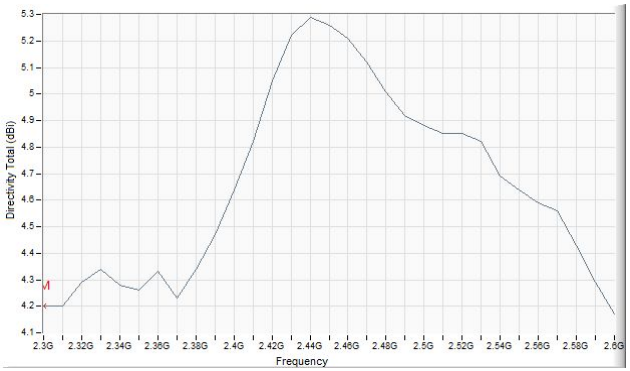

Minimum Total @ Theta (deg.)
100
98
96
94
92
90
88
86
84
82
80
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

Minimum Total @ Phi (deg.)
180
179
178
177
176
175
174
173
172
171
170
169

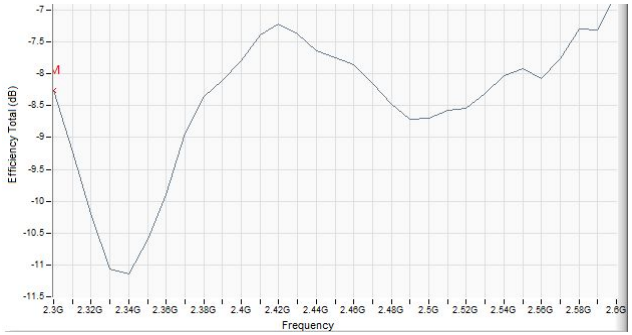

168
167
166
165
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

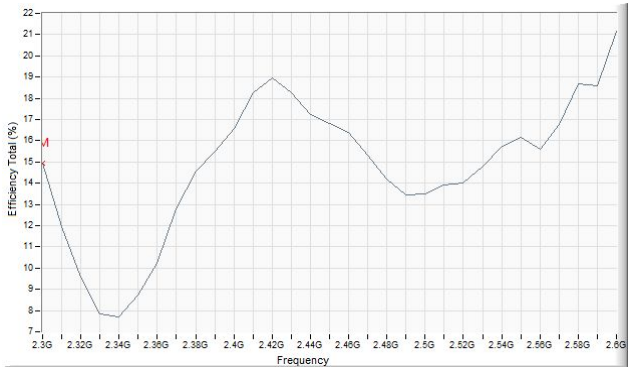

Ant. Port Inp. Pow. Total (dBi)
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

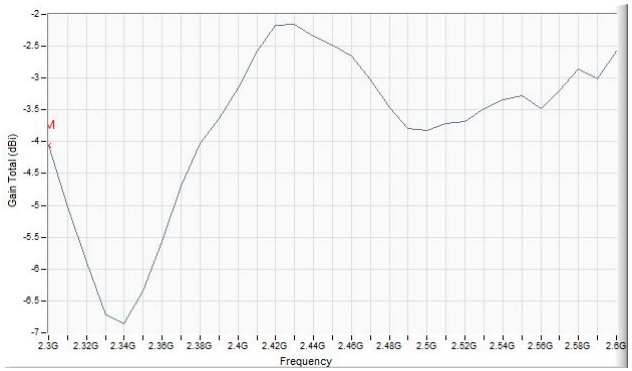

Peak ERP Total (dBi)
-2
-2.5
-3
-3.5
-4
-4.5
-5
-5.5
-6
-6.5
-7
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

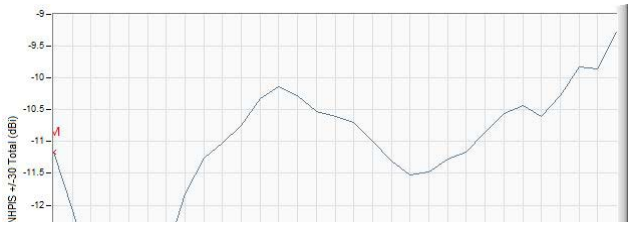

Directivity Total (dBi)
5.3
5.2
5.1
5
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

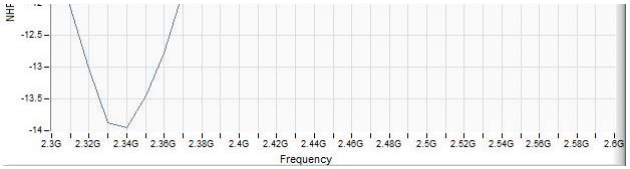
-6.5
-7

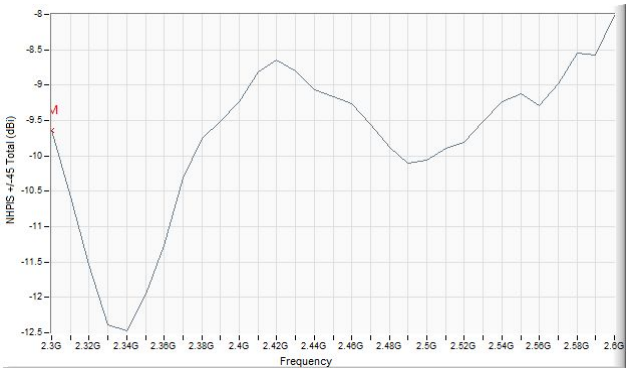

Efficiency Total (dB)
Frequency

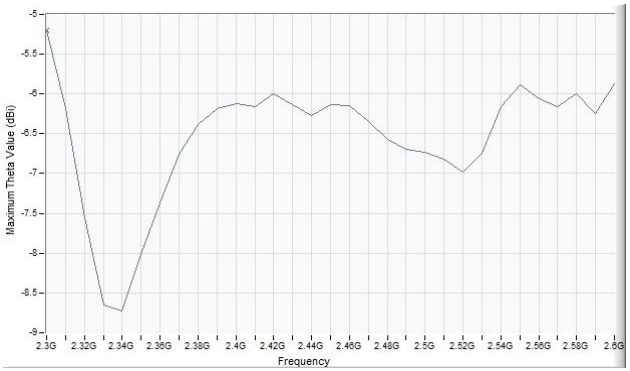

Efficiency Total (%)
Frequency

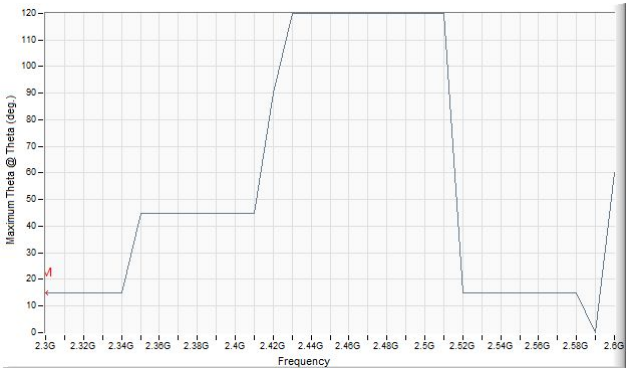

Gain Total (dBi)
Frequency

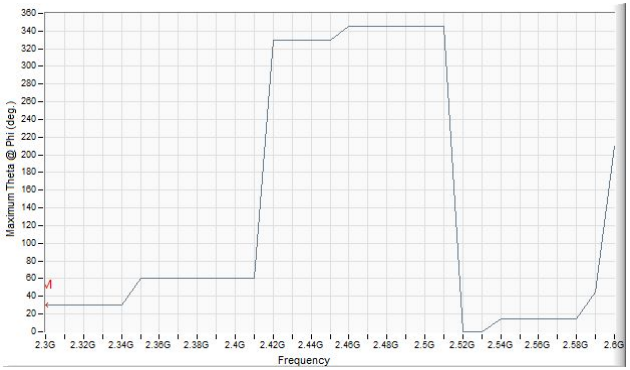

HPBS +/-30 Total (dBi)

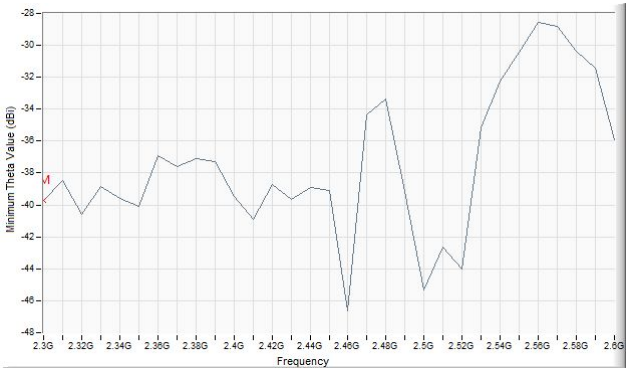

NHF
-12.5
-13
-13.5
-14
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

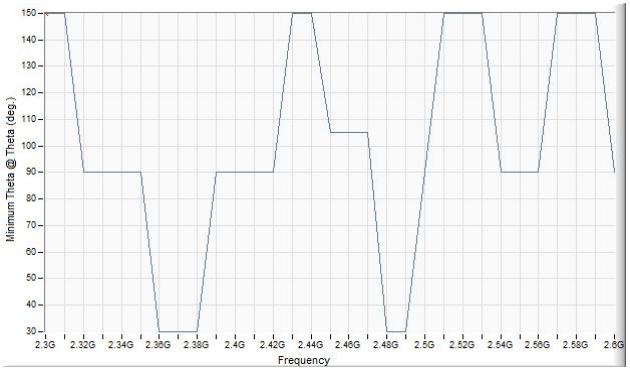

NHPIS +/-45 Total (dBi)
-8
-8.5
-9
-9.5
-10
-10.5
-11
-11.5
-12
-12.5
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency


Maximum Theta Value (dBi)
-5
-5.5
-6
-6.5
-7
-7.5
-8
-8.5
-9
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

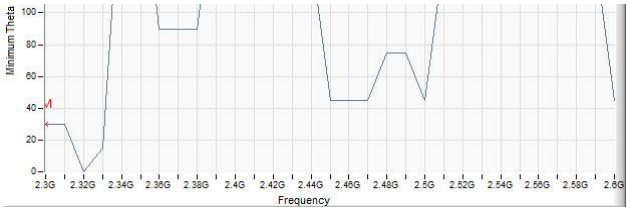

Maximum Theta @ Theta (deg.)
120
110
100
90
80
70
60
50
40
30
20
10
0
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

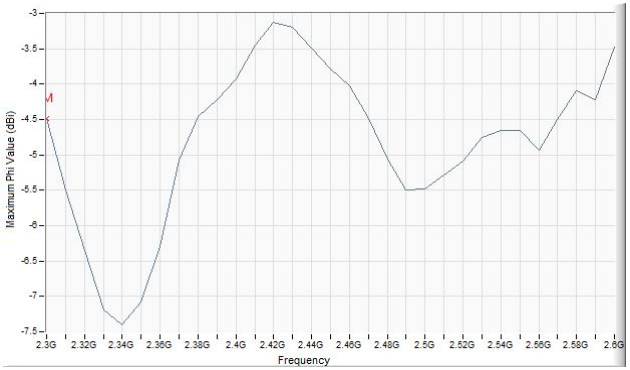

Maximum Theta @ Phi (deg.)
Frequency

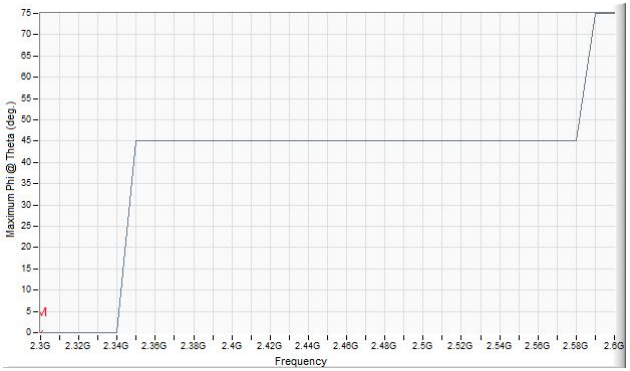

Minimum Theta Value (dBi)
Frequency

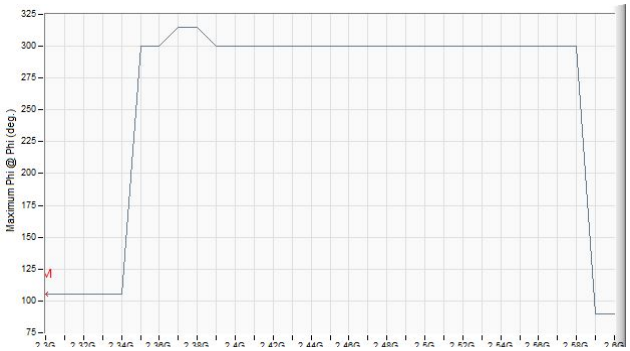

Minimum Theta @ Theta (deg.)
Frequency

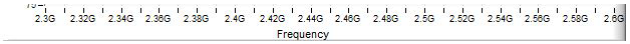
eta @ Phi (deg.)

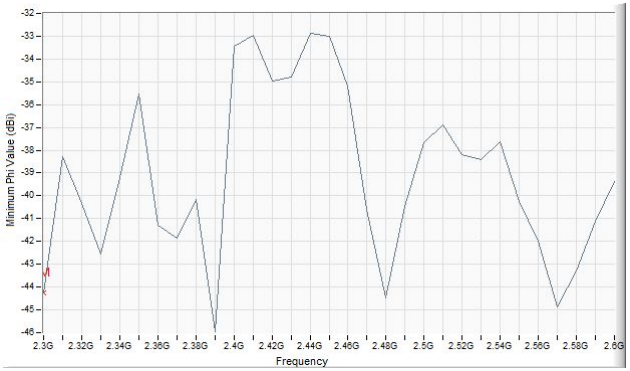

Minimum Theta
100
80
60
40
20
0
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

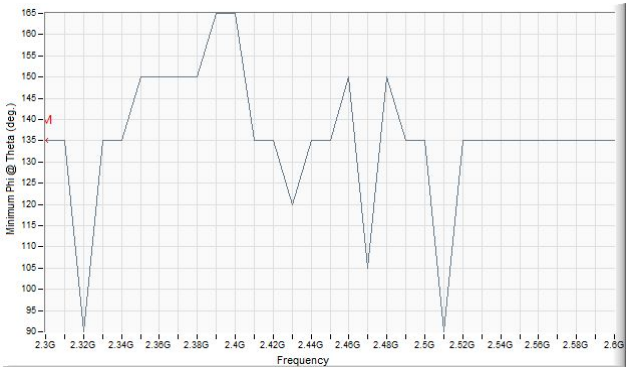

Maximum Phi Value (dBi)
-3
-3.5
-4
-4.5
-5
-5.5
-6
-6.5
-7
-7.5
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency

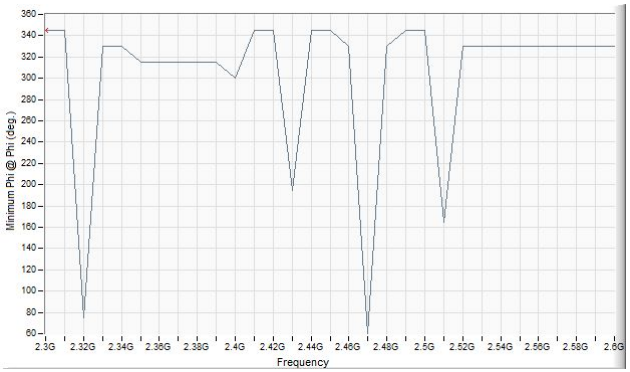

Maximum Phi @ Theta (deg.)
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
M
2.3G 2.32G 2.34G 2.36G 2.38G 2.4G 2.42G 2.44G 2.46G 2.48G 2.5G 2.52G 2.54G 2.56G 2.58G 2.6G
Frequency


Maximum Phi @ Phi (deg.)
325
300
275
250
225
200
175
150
125
100
75
M



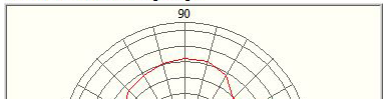


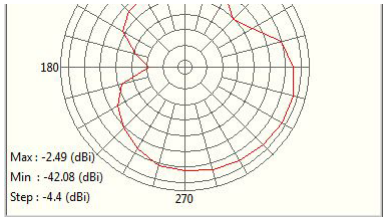




Theta H

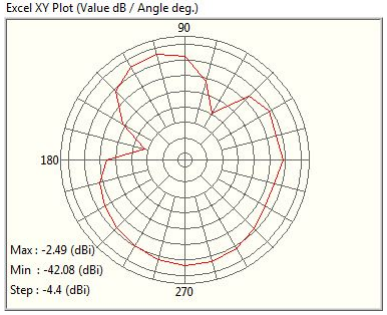
Excel XY Plot (Value dB / Angle deg.)





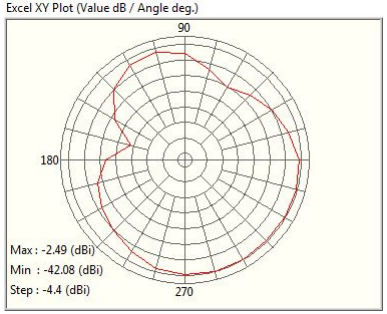
Phi H

Excel XY Plot (Value dB / Angle deg.)



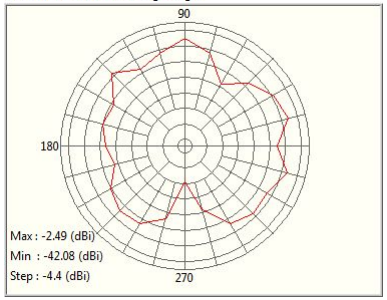
Total H

Excel XY Plot (Value dB / Angle deg.)



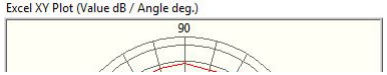
Theta E1

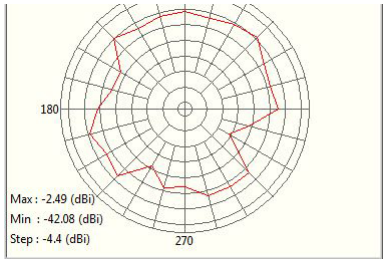
Excel XY Plot (Value dB / Angle deg.)



Phi E1

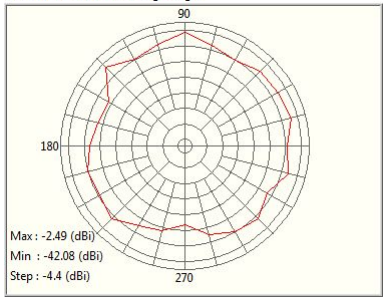
Excel XY Plot (Value dB / Angle deg.)





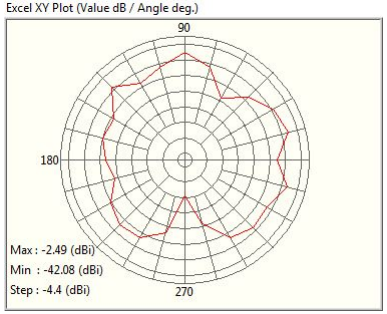
Total E1

Excel XY Plot (Value dB / Angle deg.)



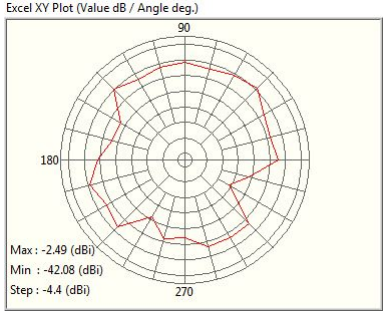
Theta E2

Excel XY Plot (Value dB / Angle deg.)



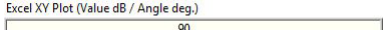
Phi E2

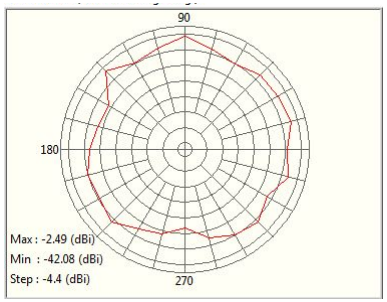
Excel XY Plot (Value dB / Angle deg.)



Total E2

Excel XY Plot (Value dB / Angle deg.)




90
180
270
Max : -2.49 (dBi)
Min : -42.08 (dBi)
Step : -4.4 (dBi)