

W6M Antenna report

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Requirements Antenna Design Measurement

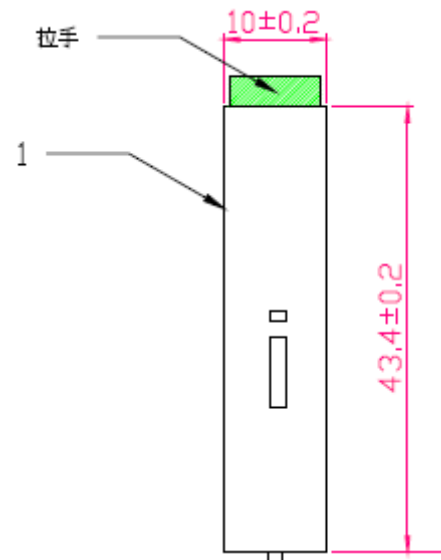
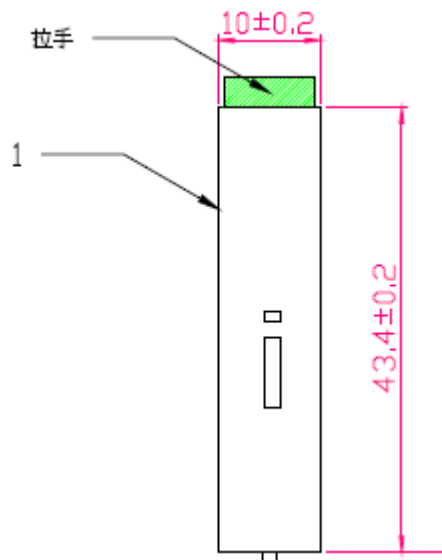
Requirements of Antenna Design

RF Function	Number of ANT	ANT Type	Frequency Band
ANT 1	1	Dipole	2412-2485MHz
ANT 2	1	Dipole	2412-2485MHz
ANT 3	1	Dipole	5150-5850MHz
ANT 4	1	Dipole	5150-5850MHz
ANT 5	1	Dipole	5150-5850MHz
ANT 6	1	Dipole	5150-5850MHz
ANT 7	1	Dipole	5925-7125MHz
ANT 8	1	Dipole	5925-7125MHz

Antenna Placement & Solution

RF Function	Number of ANT	Frequency Band	PN	Manufacturer
ANT 1	1	2412-2485MHz	DQ600230200	佳邦科技(INPAQ) No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C.

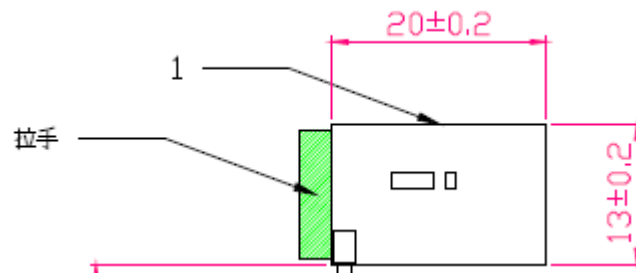
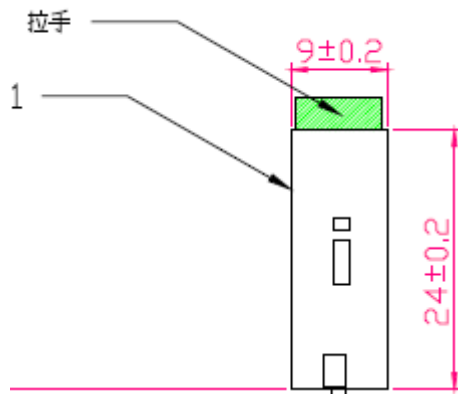
RF Function	Number of ANT	Frequency Band	PN	Manufacturer
ANT 2	1	2412-2485MHz	DQ600230300	佳邦科技(INPAQ) No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C.



Antenna Placement & Solution

RF Function	Number of ANT	Frequency Band	PN	Manufacturer
ANT 3	1	5150-5850MHz	DQ600208100	佳邦科技(INPAQ) No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C.

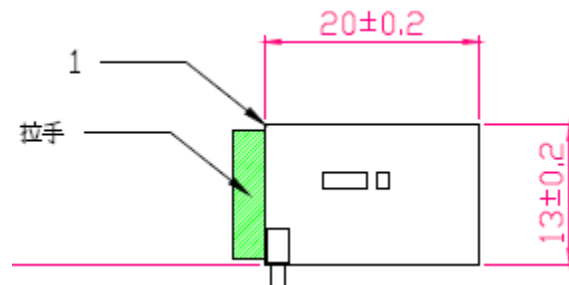
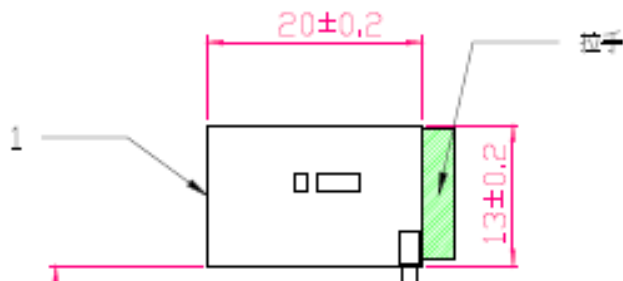
RF Function	Number of ANT	Frequency Band	PN	Manufacturer
ANT 4	1	5150-5850MHz	DQ600208201	佳邦科技(INPAQ) No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C.



Antenna Placement & Solution

RF Function	Number of ANT	Frequency Band	PN	Manufacturer
ANT 5	1	5150-5850MHz	DQ600208300	佳邦科技(INPAQ) No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C.

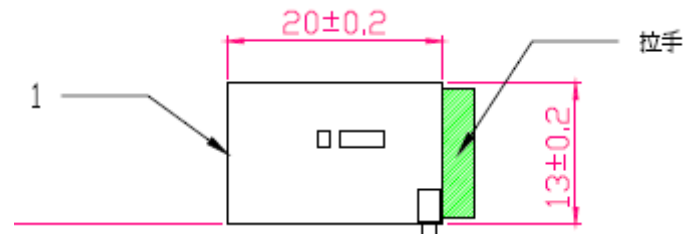
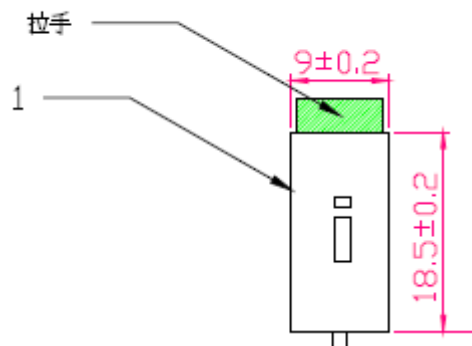
RF Function	Number of ANT	Frequency Band	PN	Manufacturer
ANT 6	1	5150-5850MHz	DQ600208400	佳邦科技(INPAQ) No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C.



Antenna Placement & Solution

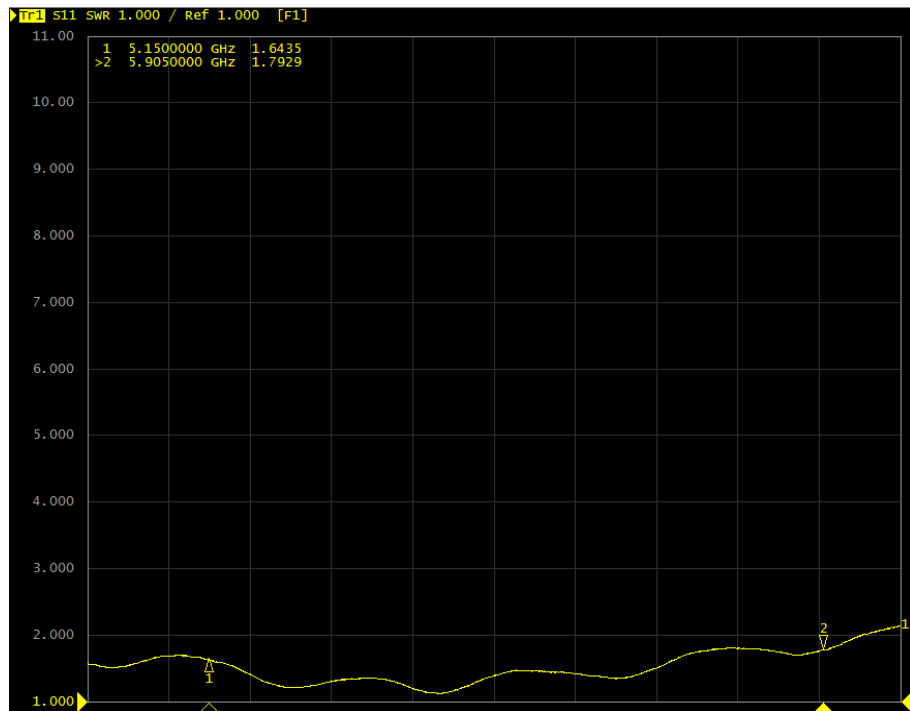
RF Function	Number of ANT	Frequency Band	PN	Manufacturer
ANT 7	1	5925-7125MHz	DQ600200105	佳邦科技(INPAQ) No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C.

RF Function	Number of ANT	Frequency Band	PN	Manufacturer
ANT 8	1	5925-7125MHz	DQ600200203	佳邦科技(INPAQ) No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C.

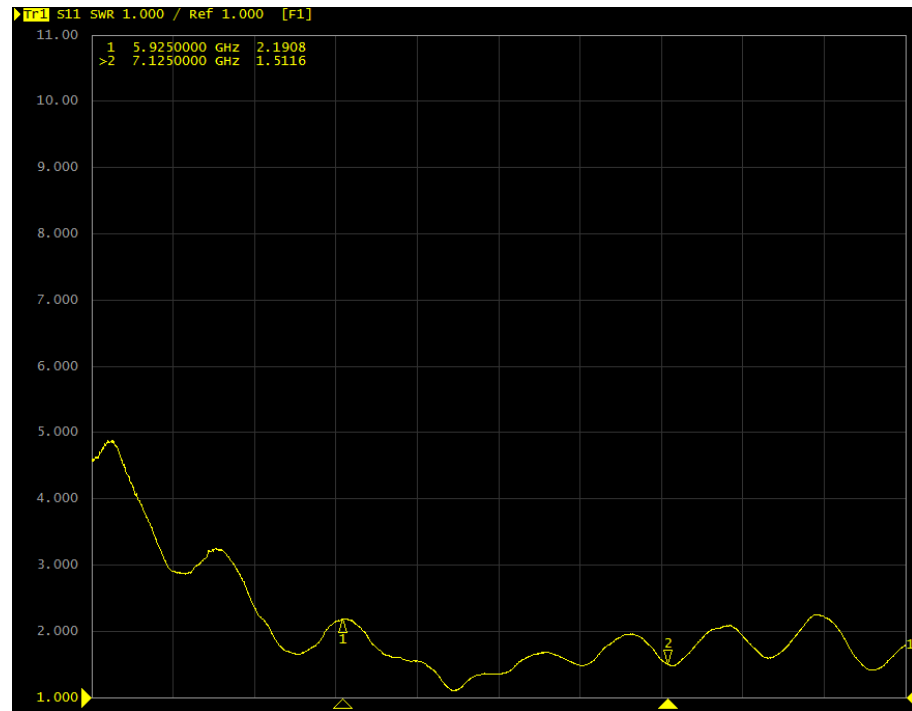


VSWR Results

ANT 5(5GHz)

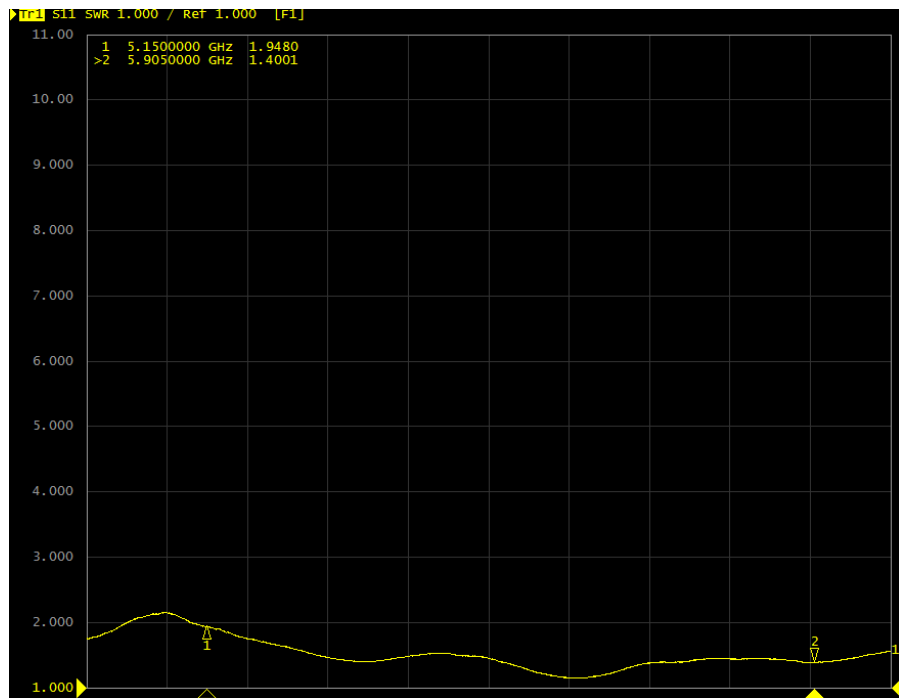


ANT 7(6GHz)

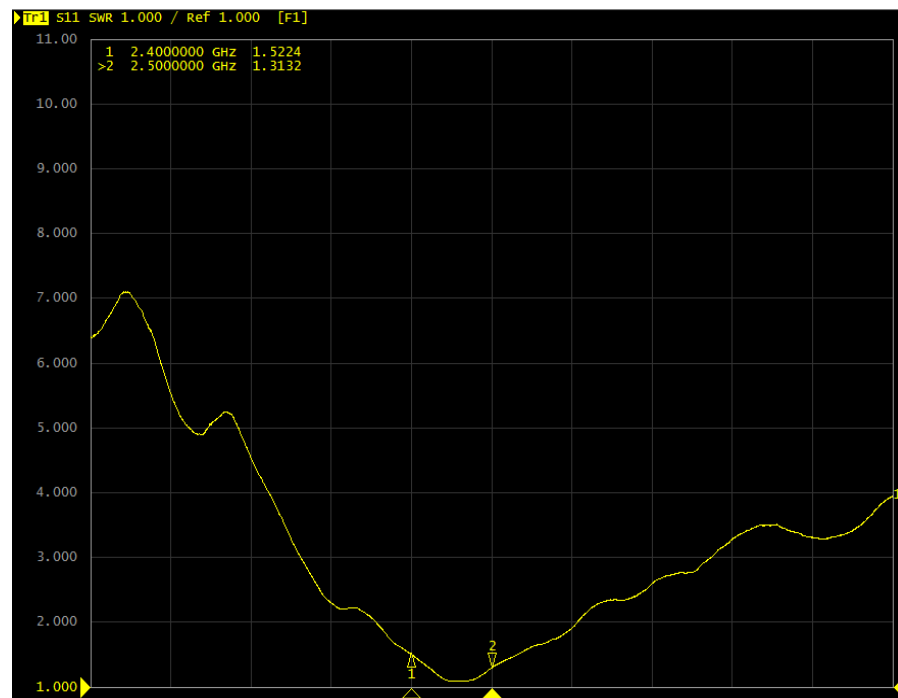


VSWR Results

ANT 4(5GHz)

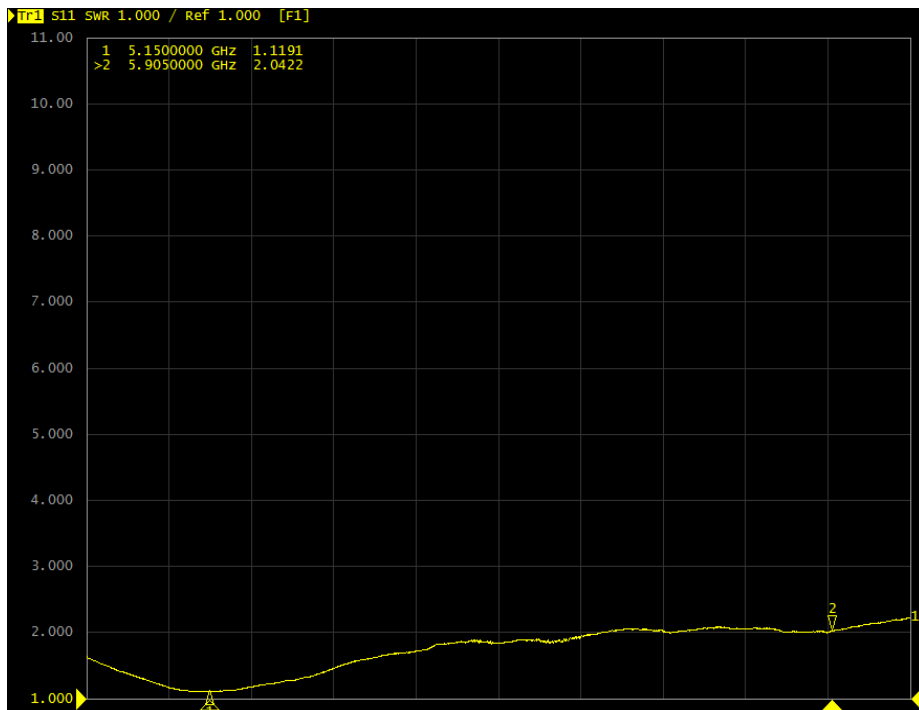


ANT 1(2.4GHz)

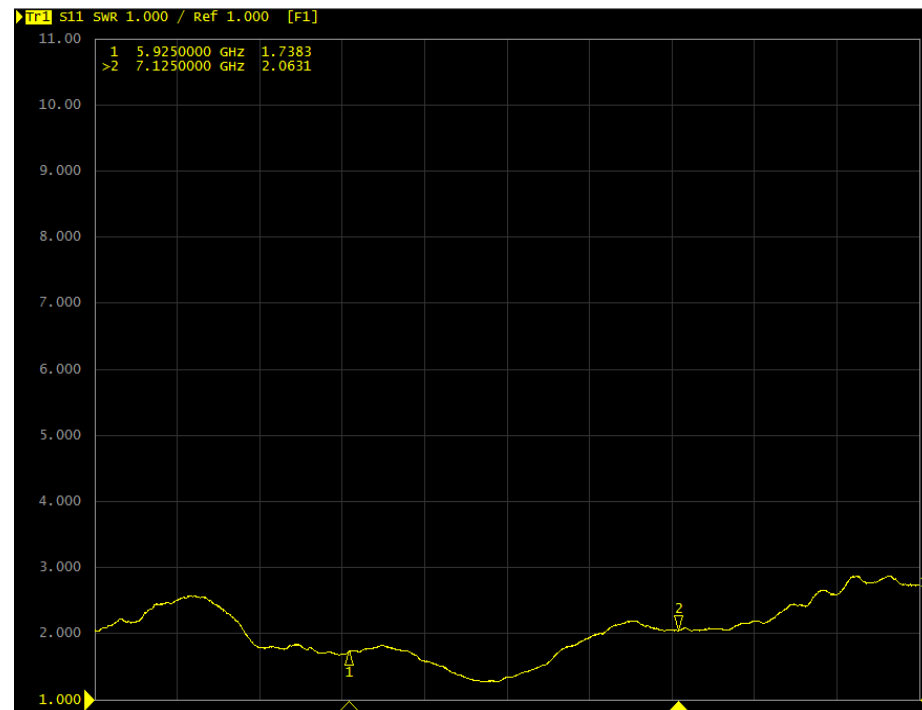


VSWR Results

ANT 3(5GHz)

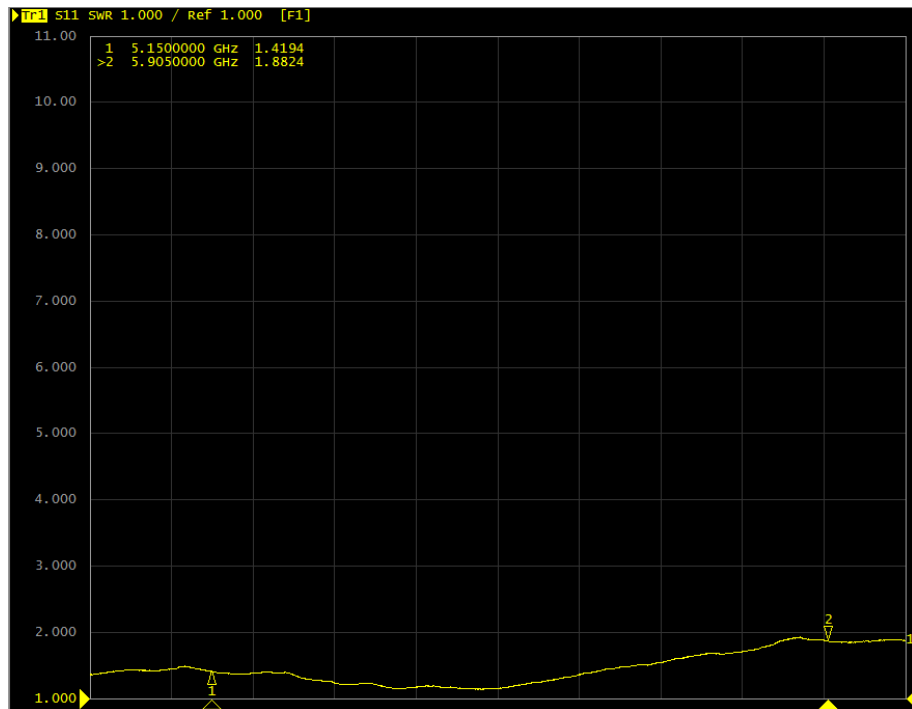


ANT 8(6GHz)

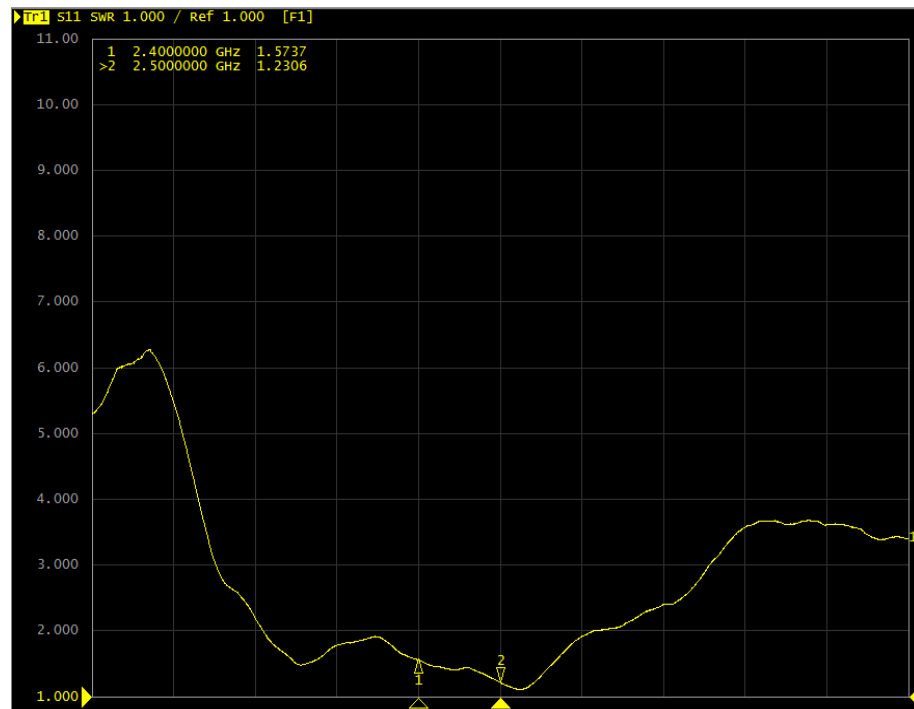


VSWR Results

ANT 6(5GHz)

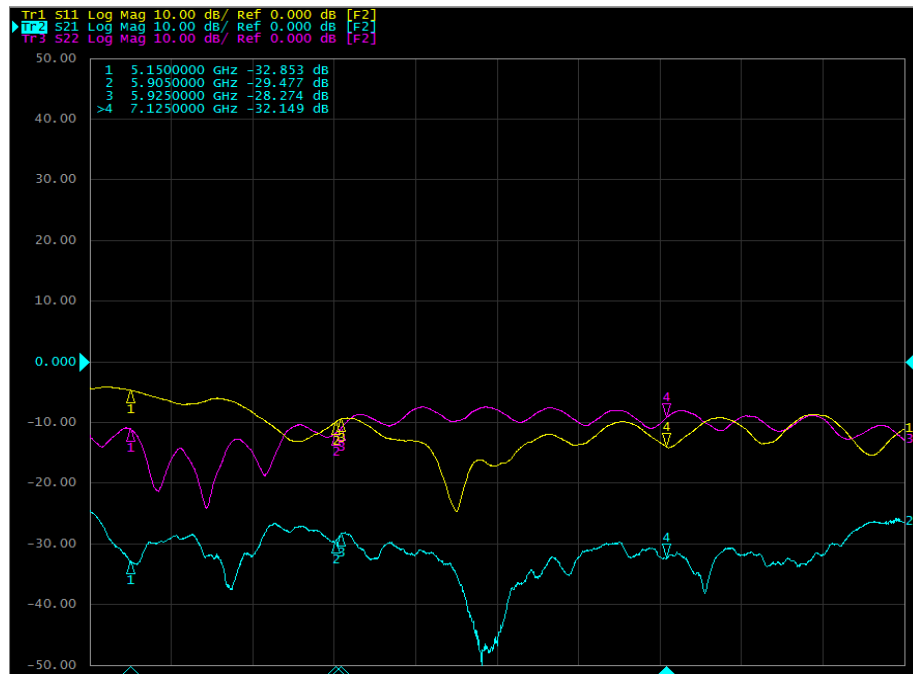


ANT 2(2.4GHz)

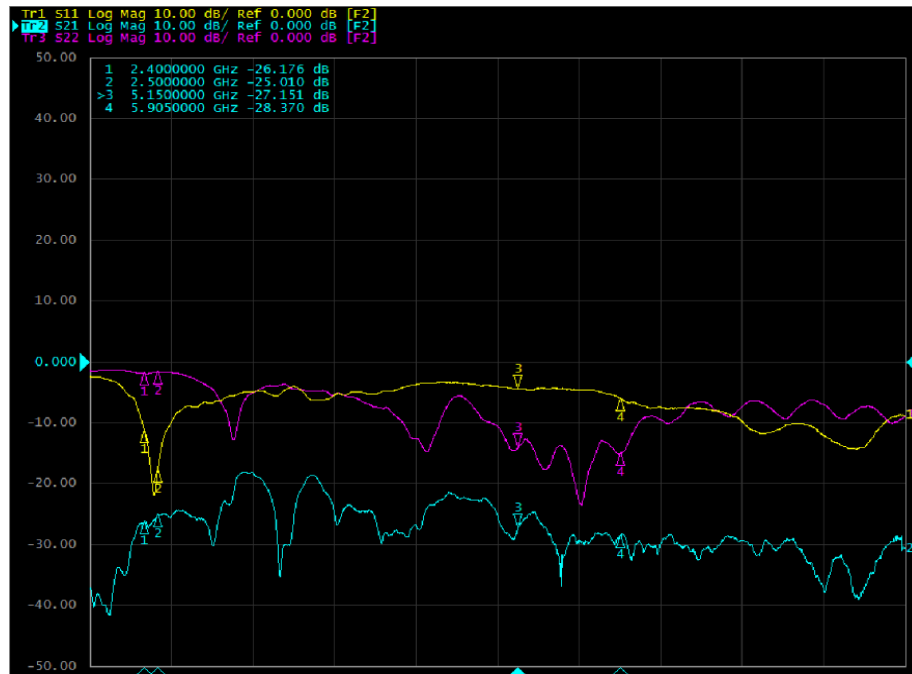


Isolation Results

ANT 5 (5GHz) & ANT 7(6GHz)

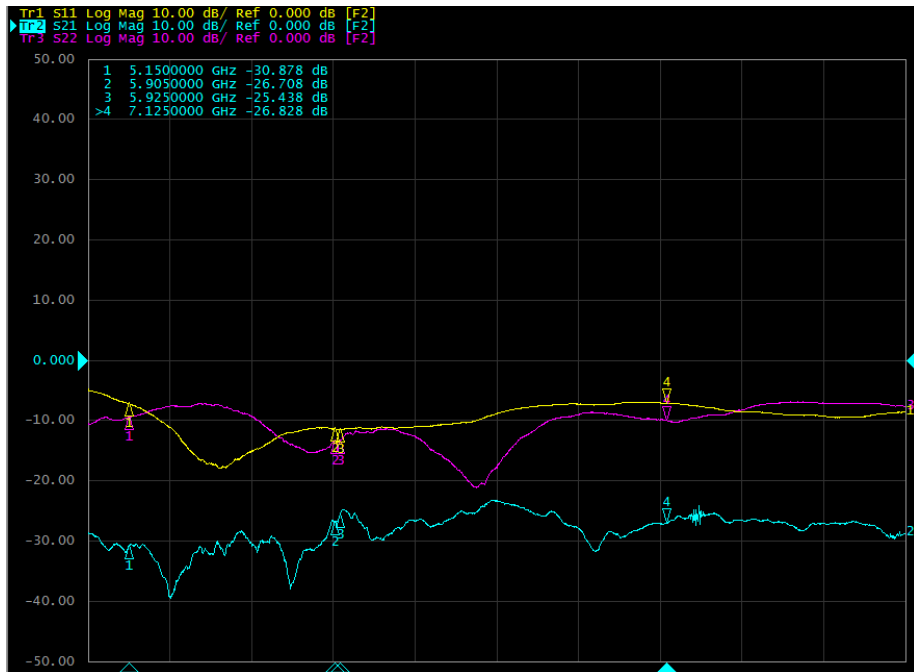


ANT 1(2.4GHz) & ANT 4(5GHz)

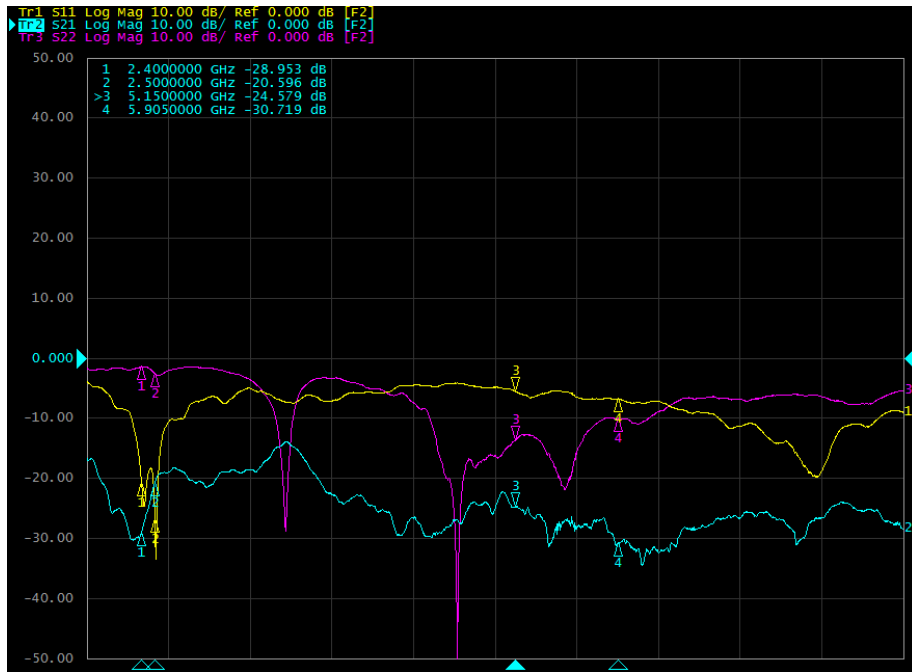


Isolation Results

ANT 3(5GHz) & ANT 8(6GHz)

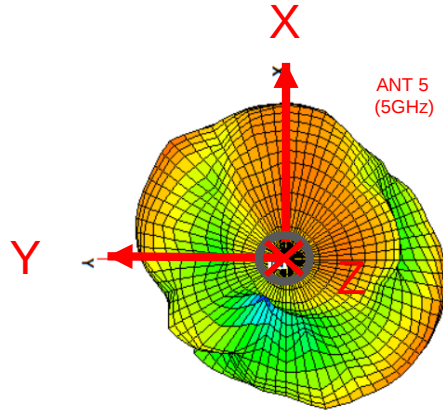


ANT 2(2.4GHz) & ANT 6(5GHz)

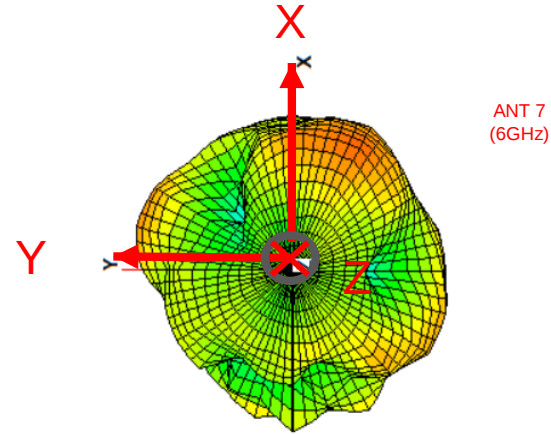


3D Radiation Pattern Results

ANT 5(5GHz)

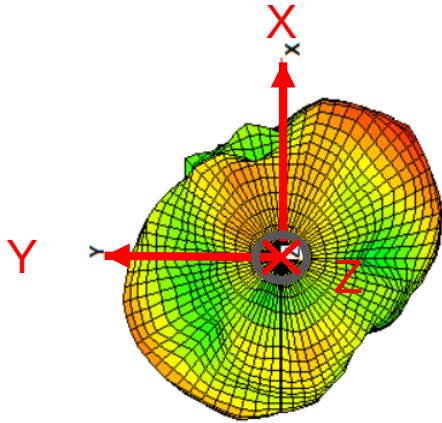


ANT 7(6GHz)



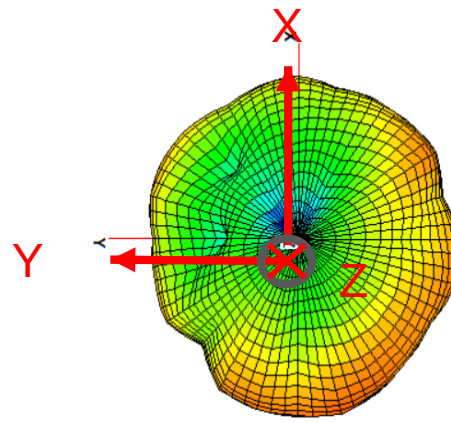
3D Radiation Pattern Results

ANT 4(5GHz)



ANT 4
(5GHz)

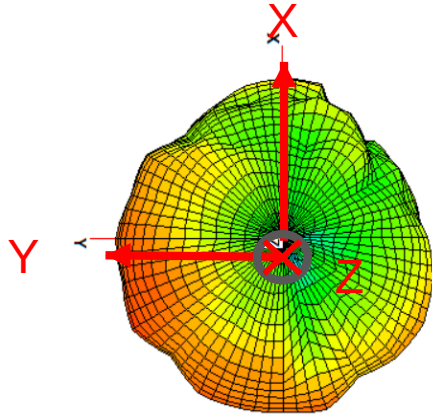
ANT 1(2.4GHz)



ANT 1
(2.4GHz)

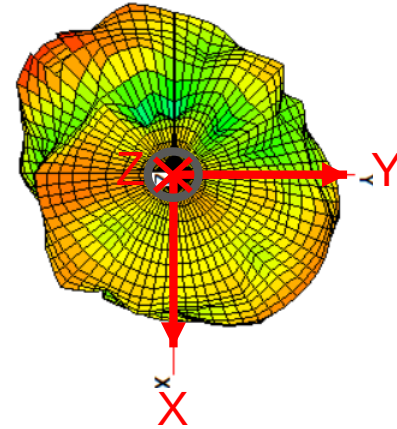
3D Radiation Pattern Results

ANT 3(5GHz)



ANT 3
(5GHz)

ANT 8(6GHz)

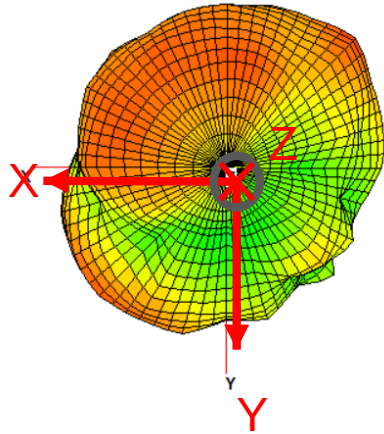


ANT 8
(6GHz)

3D Radiation Pattern Results

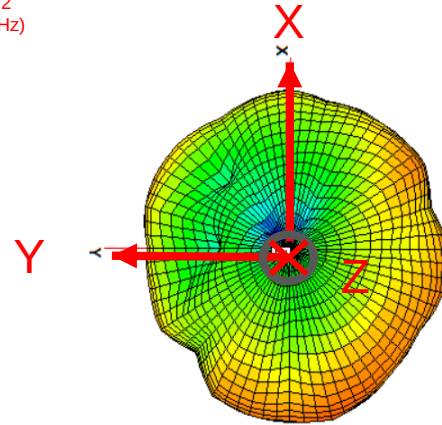
ANT 6(5GHz)

ANT 6
(5GHz)



ANT 2(2.4GHz)

ANT 2
(2.4GHz)



Results Summary

ANT 1(2.4GHz)

Frequency MHz	Avg. Gain dB	Peak Gain dBi
2400	-1.4	2.5
2405	-1.3	2.6
2410	-1.3	2.6
2415	-1.3	2.6
2420	-1.3	2.4
2425	-1.3	2.4
2430	-1.3	2.5
2435	-1.2	2.7
2440	-1.1	2.8
2445	-1.1	2.9
2450	-1.1	3.0
2455	-1.1	3.1
2460	-1.1	3.0
2465	-1.2	3.0
2470	-1.2	3.0
2475	-1.2	3.1
2480	-1.1	3.1
2485	-1.1	3.2

ANT 2(2.4GHz)

Frequency MHz	Avg. Gain dB	Peak Gain dBi
2400	-2.1	1.9
2405	-2.1	2.0
2410	-2.1	2.0
2415	-2.2	1.9
2420	-2.2	1.8
2425	-2.2	1.9
2430	-2.2	1.9
2435	-2.2	2.0
2440	-2.1	2.3
2445	-2.1	2.4
2450	-2.1	2.5
2455	-2.0	2.5
2460	-2.0	2.5
2465	-2.0	2.6
2470	-2.0	2.7
2475	-1.9	2.8
2480	-1.8	2.8
2485	-1.7	2.7

Results Summary

ANT 3(5GHz)

Frequency MHz	Avg. Gain dB	Peak Gain dBi
5150	-1.4	4.8
5175	-0.9	5.5
5200	-1.1	5.2
5225	-1.5	5.3
5250	-1.3	4.8
5275	-1.3	5.0
5300	-1.6	5.2
5325	-1.5	5.1
5350	-1.5	4.2
5375	-1.8	4.2
5400	-2.1	3.5
5425	-1.8	3.3
5450	-1.5	4.0
5475	-1.8	3.7
5500	-1.8	3.6
5525	-1.8	3.7
5550	-2.1	3.4
5575	-2.0	3.2
5600	-1.9	3.3
5625	-1.8	3.7
5650	-1.4	3.8
5675	-1.3	4.1
5700	-1.9	3.4
5725	-1.9	3.5
5750	-1.6	3.9
5775	-2.0	3.4
5800	-1.9	3.4
5825	-1.3	4.0
5850	-1.6	3.8

ANT 4(5GHz)

Frequency MHz	Avg. Gain dB	Peak Gain dBi
5150	-2.1	4.1
5175	-1.5	4.7
5200	-1.6	4.4
5225	-2.0	3.9
5250	-1.9	3.8
5275	-1.9	3.9
5300	-2.0	4.1
5325	-2.1	4.3
5350	-1.9	4.5
5375	-2.1	4.4
5400	-2.4	3.8
5425	-2.1	3.9
5450	-2.0	4.0
5475	-2.3	3.7
5500	-2.2	3.7
5525	-2.1	3.6
5550	-2.3	3.5
5575	-2.3	3.4
5600	-2.3	3.7
5625	-2.2	3.9
5650	-1.7	4.5
5675	-1.6	4.8
5700	-1.9	4.5
5725	-1.9	4.4
5750	-1.6	4.4
5775	-2.1	3.8
5800	-2.1	3.6
5825	-1.6	4.2
5850	-1.7	4.2

Results Summary

ANT 5(5GHz)		
Frequency MHz	Avg. Gain dB	Peak Gain dBi
5150	-2.2	3.3
5175	-1.6	3.9
5200	-1.4	4.0
5225	-1.8	3.7
5250	-1.7	3.8
5275	-1.7	3.7
5300	-1.9	3.6
5325	-1.9	3.4
5350	-1.7	3.4
5375	-1.8	3.4
5400	-2.1	3.2
5425	-1.8	3.2
5450	-1.7	3.3
5475	-2.1	3.1
5500	-1.9	3.0
5525	-1.9	2.9
5550	-2.1	2.8
5575	-2.1	2.7
5600	-2.1	2.9
5625	-1.9	3.0
5650	-1.6	3.3
5675	-1.8	3.2
5700	-2.2	3.0
5725	-2.2	3.0
5750	-2.0	3.1
5775	-2.5	2.7
5800	-2.6	2.4
5825	-2.0	3.0
5850	-2.0	3.3

ANT 6(5GHz)		
Frequency MHz	Avg. Gain dB	Peak Gain dBi
5150	-1.3	3.5
5175	-1.0	3.8
5200	-1.1	3.7
5225	-1.4	3.8
5250	-1.1	4.0
5275	-1.1	3.9
5300	-1.3	3.4
5325	-1.3	3.4
5350	-1.1	3.5
5375	-1.2	3.6
5400	-1.5	3.4
5425	-1.1	3.8
5450	-0.9	4.3
5475	-1.3	3.7
5500	-1.2	3.7
5525	-1.1	4.0
5550	-1.2	3.8
5575	-1.1	4.0
5600	-1.2	4.0
5625	-1.3	4.2
5650	-1.0	4.6
5675	-0.9	4.6
5700	-1.2	4.3
5725	-1.2	4.5
5750	-0.9	4.5
5775	-1.4	3.9
5800	-1.6	3.8
5825	-1.1	4.0
5850	-1.3	4.1

Results Summary

ANT 7(6GHz)		
Frequency MHz	Avg. Gain dB	Peak Gain dBi
5925	-2.4	2.8
5950	-2.7	2.5
5975	-2.7	2.6
6000	-2.4	2.7
6025	-2.8	2.2
6050	-2.6	2.0
6075	-2.1	2.4
6100	-2.5	2.1
6125	-2.5	2.1
6150	-2.3	2.1
6175	-2.6	2.0
6200	-2.4	2.3
6225	-2.0	2.6
6250	-2.3	2.6
6275	-2.4	2.5
6300	-1.9	2.9
6325	-1.9	3.2
6350	-2.2	2.7
6375	-2.0	2.7
6400	-1.8	2.9
6425	-2.2	2.6
6450	-2.4	2.4
6475	-2.1	2.4
6500	-2.2	2.4
6525	-2.6	2.5

ANT 7(6GHz)		
Frequency MHz	Avg. Gain dB	Peak Gain dBi
6525	-2.6	2.5
6550	-2.3	3.0
6575	-2.2	2.7
6600	-2.5	2.1
6625	-2.1	2.3
6650	-2.1	2.4
6675	-2.5	2.0
6700	-2.4	2.2
6725	-2.4	2.4
6750	-2.8	2.3
6775	-2.4	2.7
6800	-2.2	2.8
6825	-2.8	2.3
6850	-2.8	2.4
6875	-2.4	2.6
6900	-2.7	2.4
6925	-2.7	2.5
6950	-2.6	2.7
6975	-2.8	2.5
7000	-2.9	2.2
7025	-2.7	2.3
7050	-2.4	2.3
7075	-2.6	2.1
7100	-2.9	1.7
7125	-2.6	2.0

Results Summary

ANT 8(6GHz)		
Frequency MHz	Avg. Gain dB	Peak Gain dBi
5925	-1.2	5.1
5950	-1.6	4.4
5975	-1.4	5.0
6000	-1.2	5.1
6025	-1.9	4.0
6050	-1.7	4.2
6075	-1.5	4.5
6100	-1.7	3.8
6125	-1.4	4.3
6150	-1.2	4.4
6175	-1.6	3.6
6200	-1.4	4.0
6225	-1.3	3.9
6250	-1.6	3.5
6275	-1.5	3.6
6300	-1.1	4.1
6325	-1.1	4.5
6350	-1.4	4.5
6375	-1.4	4.8
6400	-1.1	5.4
6425	-1.5	5.4
6450	-1.6	5.6
6475	-1.1	6.4
6500	-1.4	6.3
6525	-1.8	5.8

ANT 8(6GHz)		
Frequency MHz	Avg. Gain dB	Peak Gain dBi
6525	-1.8	5.8
6550	-1.4	6.2
6575	-1.5	6.1
6600	-1.9	5.5
6625	-1.5	6.3
6650	-1.6	6.0
6675	-1.8	5.6
6700	-1.5	6.0
6725	-1.7	5.4
6750	-2.1	4.8
6775	-1.8	4.8
6800	-1.8	4.4
6825	-2.0	4.0
6850	-1.9	4.0
6875	-1.7	4.2
6900	-2.1	3.7
6925	-2.5	3.0
6950	-2.3	3.3
6975	-2.3	3.4
7000	-2.5	2.8
7025	-2.3	3.2
7050	-2.0	3.6
7075	-2.4	2.9
7100	-2.5	3.1
7125	-2.4	3.3