Antenna Specification

Product Model： Deco X50-Outdoor(US)1.0

Version： 1.0

Date：

Checked By：

TP-Link Corporation Limited
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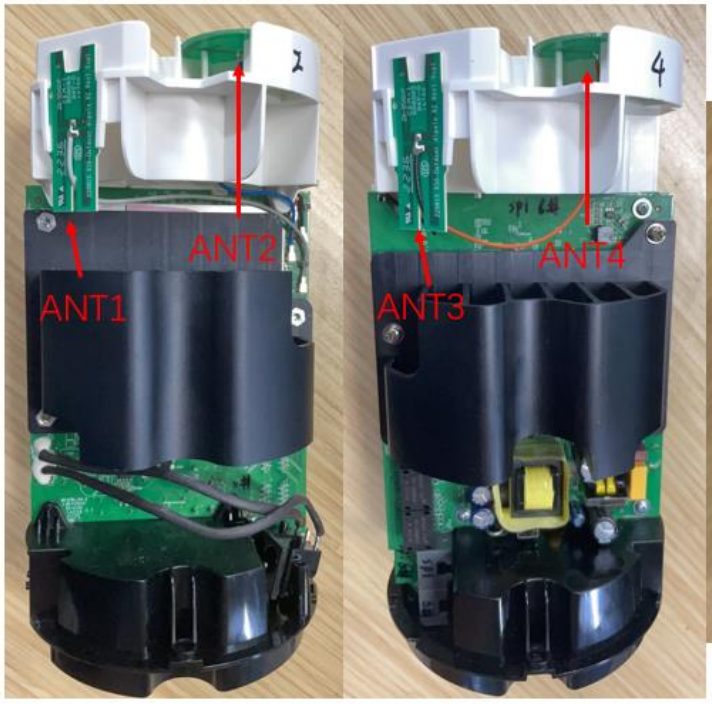
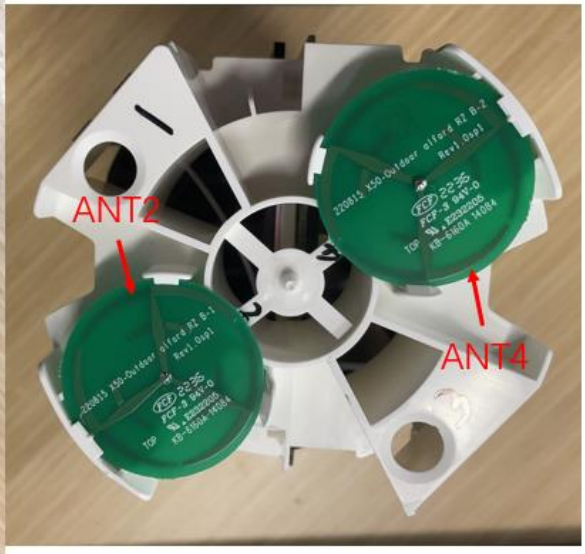
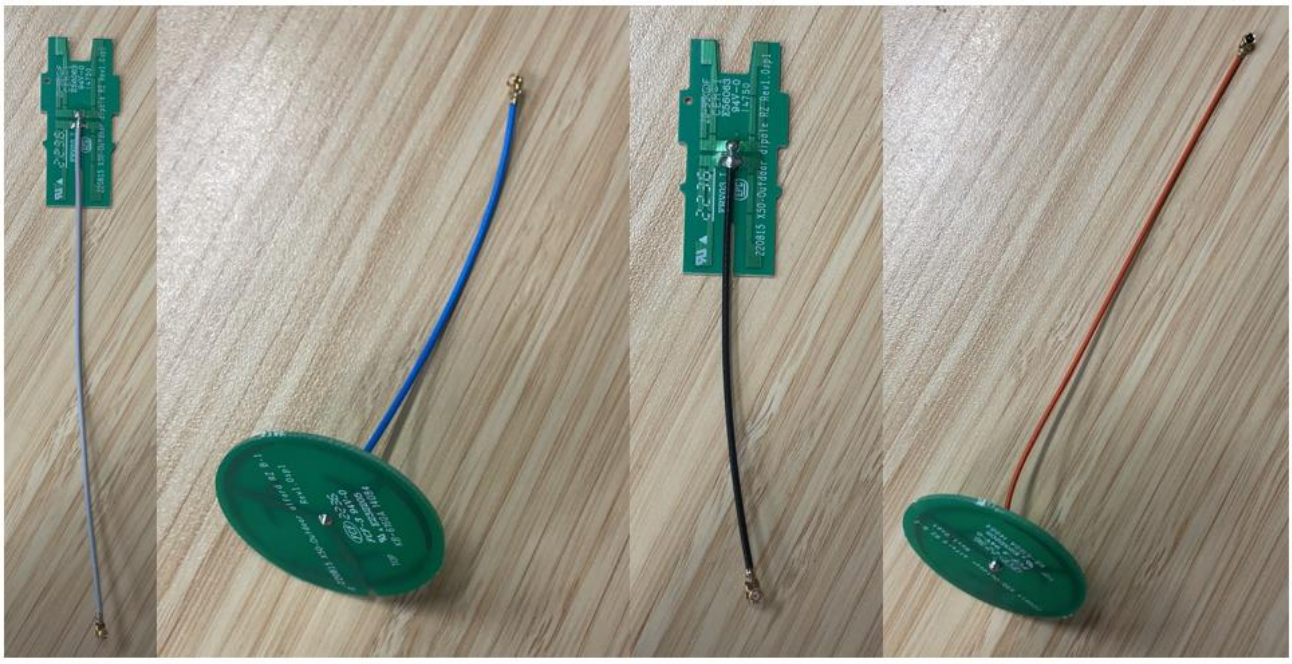
I. Antenna Distribution

Deco X50-Outdoor(US)1.0







ANT1 ANT2 ANT3 ANT4

II. Electrical Characteristics

	Ant1
Frequency	2400~2500MHz & 5150~5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.98dBi@2400~2500MHz 0.99dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant2	
Frequency	2400~2500MHz & 5150~5850MHz
Impedance	50Ohm
Antenna Type	Alford
Antenna Gain	1.95dBi@2400~2500MHz 0.96dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant3	
Frequency	2400~2500MHz & 5150~5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	1.97dBi@2400~2500MHz 0.94dBi@5150~5850MHz
Radiation pattern	Omni-Directional

Ant4	
Frequency	2400~2500MHz & 5150~5850MHz
Impedance	50Ohm
Antenna Type	Alford
Antenna Gain	1.93dBi@2400~2500MHz 0.97dBi@5150~5850MHz
Radiation pattern	Omni-Directional

III. Antenna Peak Gain

Ant1											
Frequency(MHz)	**2400**	**2410**	**2420**	**2430**	**2440**	**2450**	**2460**	**2470**	**2480**	**2490**	**2500**
Gain(dBi)	1.83	1.86	1.82	1.84	1.85	1.80	1.79	1.91	1.89	1.83	1.98
Frequency(MHz)	**5150**	**5200**	**5250**	**5300**	**5350**	**5400**	**5450**	**5500**	**5550**	**5600**	**5650**
Gain(dBi)	0.94	0.96	0.99	0.94	0.95	0.94	0.93	0.89	0.95	0.89	0.88
Frequency(MHz)	**5700**	**5750**	**5800**	**5850**							
Gain(dBi)	0.96	0.92	0.94	0.90							

Ant2											
Frequency(MHz)	**2400**	**2410**	**2420**	**2430**	**2440**	**2450**	**2460**	**2470**	**2480**	**2490**	**2500**
Gain(dBi)	1.85	1.86	1.82	1.82	1.83	1.89	1.87	1.90	1.95	1.88	1.94
Frequency(MHz)	**5150**	**5200**	**5250**	**5300**	**5350**	**5400**	**5450**	**5500**	**5550**	**5600**	**5650**
Gain(dBi)	0.96	0.91	0.92	0.91	0.93	0.87	0.88	0.90	0.91	0.84	0.87
Frequency(MHz)	**5700**	**5750**	**5800**	**5850**							
Gain(dBi)	0.89	0.95	0.85	0.96							

Ant3											
Frequency(MHz)	**2400**	**2410**	**2420**	**2430**	**2440**	**2450**	**2460**	**2470**	**2480**	**2490**	**2500**
Gain(dBi)	1.89	1.88	1.94	1.97	1.94	1.96	1.88	1.84	1.90	1.86	1.92
Frequency(MHz)	**5150**	**5200**	**5250**	**5300**	**5350**	**5400**	**5450**	**5500**	**5550**	**5600**	**5650**
Gain(dBi)	0.89	0.92	0.87	0.91	0.89	0.92	0.91	0.87	0.84	0.90	0.85
Frequency(MHz)	**5700**	**5750**	**5800**	**5850**							

Gain(dBi)	0.94	0.93	0.89	0.93							

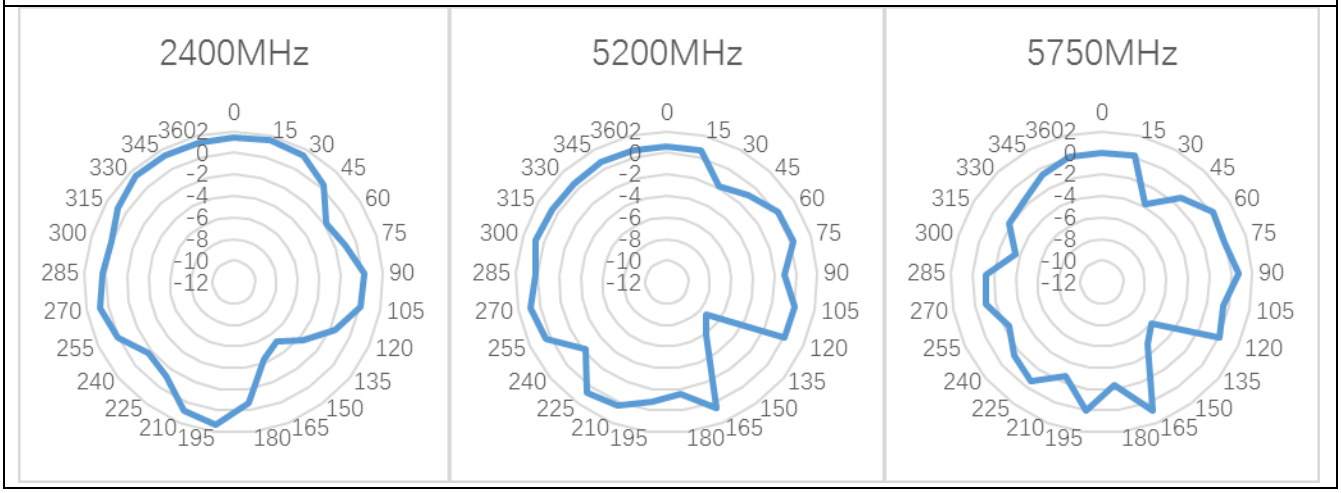
Ant4											
Frequency(MHz)	**2400**	**2410**	**2420**	**2430**	**2440**	**2450**	**2460**	**2470**	**2480**	**2490**	**2500**
Gain(dBi)	1.91	1.89	1.92	1.90	1.87	1.92	1.84	1.83	1.86	1.93	1.92
Frequency(MHz)	**5150**	**5200**	**5250**	**5300**	**5350**	**5400**	**5450**	**5500**	**5550**	**5600**	**5650**
Gain(dBi)	0.92	0.91	0.95	0.97	0.94	0.90	0.86	0.91	0.88	0.94	0.91
Frequency(MHz)	**5700**	**5750**	**5800**	**5850**							
Gain(dBi)	0.84	0.90	0.85	0.86							

IV. Antenna Peak Gain (above 30° elevation)

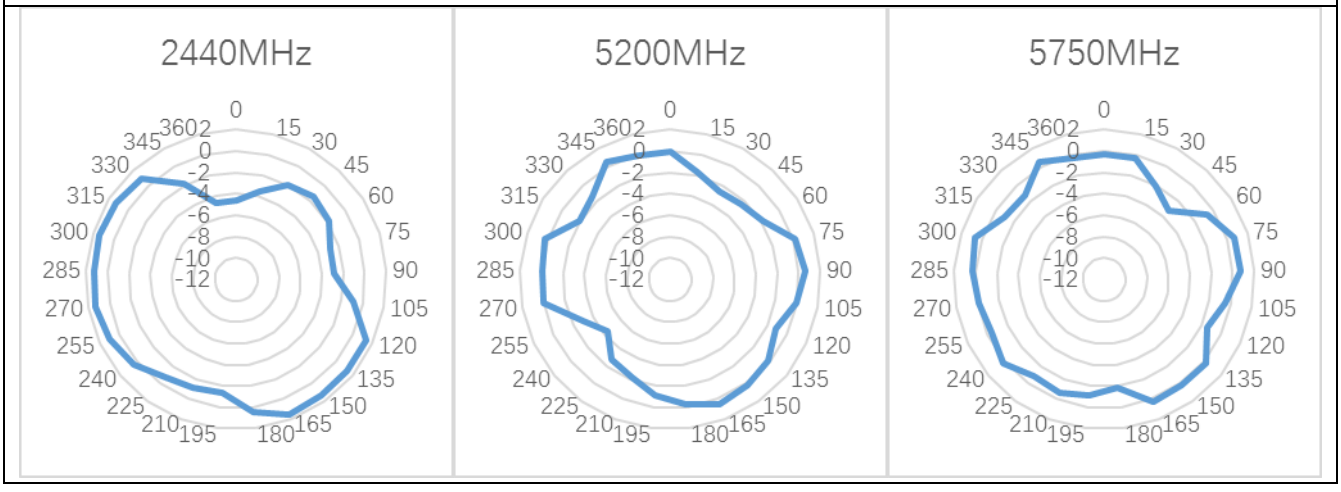
Frequency(MHz)	**5150**	**5200**	**5250**
ANT1	-4.10	-4.07	-4.08
ANT2	-4.06	-4.08	-4.09
ANT3	-4.05	-4.06	-4.04
ANT4	-4.08	-4.09	-4.00

V. Antenna Radiation Pattern

Ant1



Ant2



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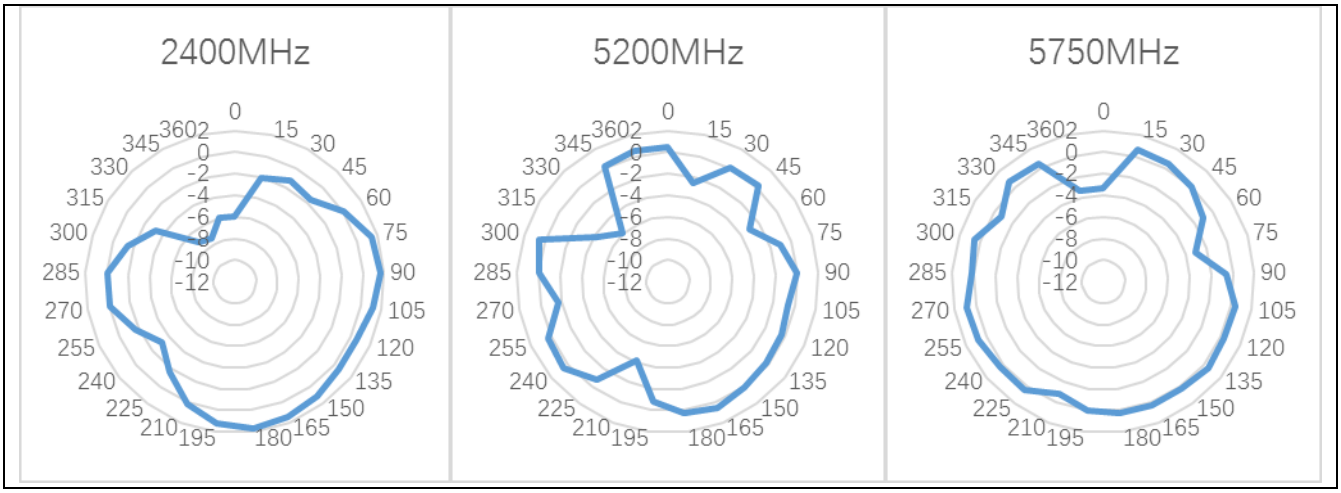

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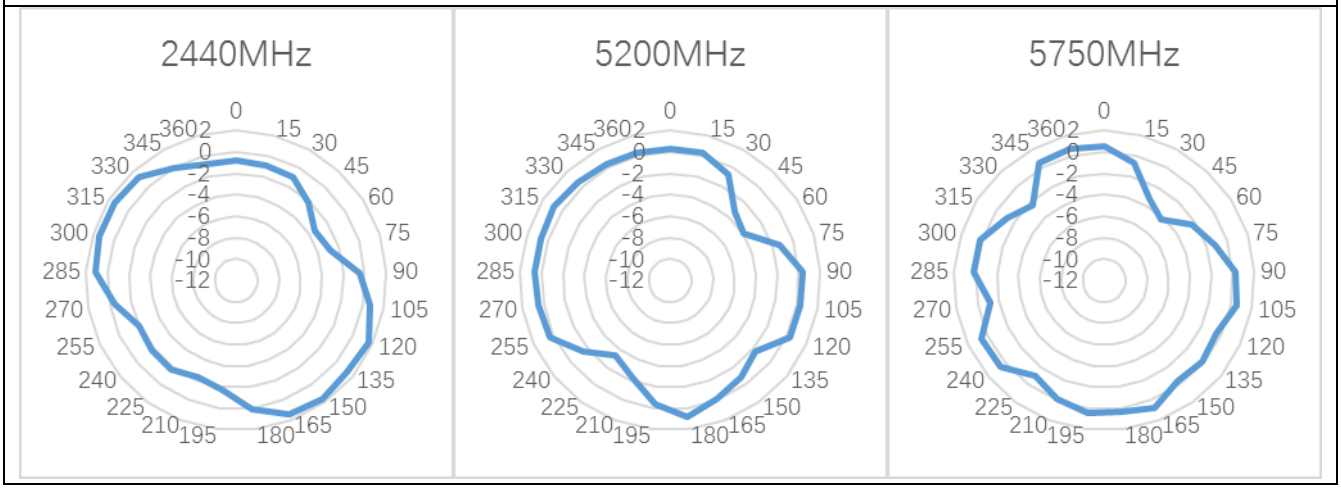
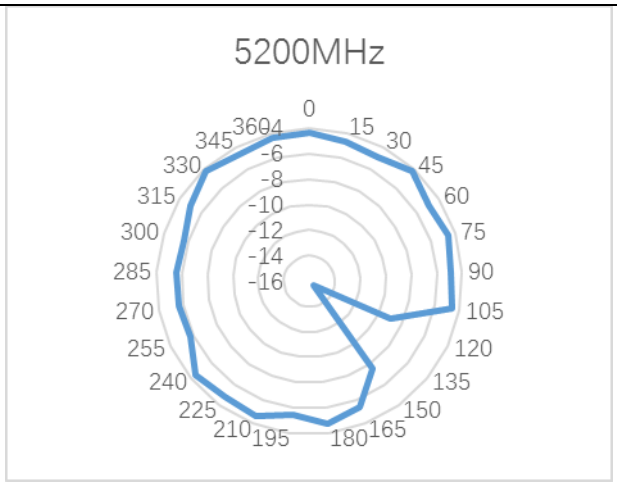
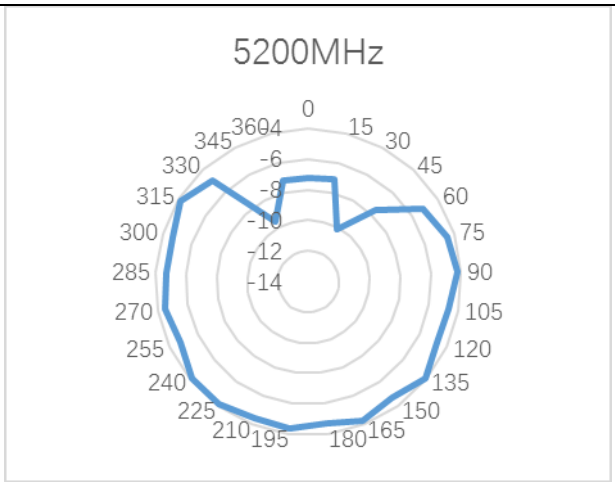


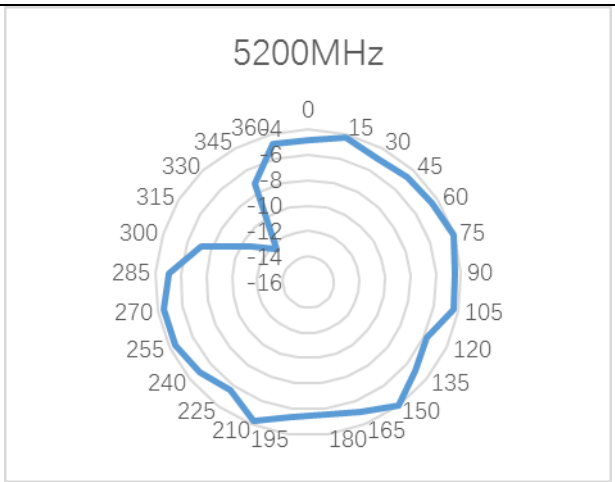
VI. Antenna Radiation Pattern (above 30° elevation)

Ant1


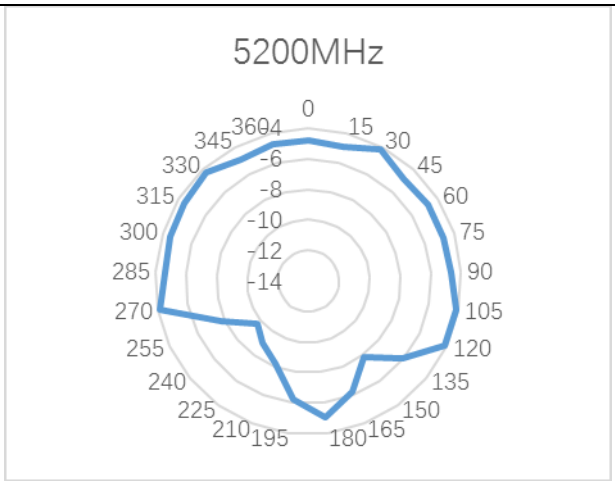
Ant2


5200MHz
0
15
30
45
60
75
90
105
120
135
150
165
180
195
210
225
240
255
270
285
300
315
330
345
360
-6
-8
-10
-12
-14

Ant3


5200MHz
0
15
30
45
60
75
90
105
120
135
150
165
180
195
210
225
240
255
270
285
300
315
330
345
360
-6
-8
-10
-12
-14
-16

Ant4


5200MHz
0
15
30
45
60
75
90
105
120
135
150
165
180
195
210
225
240
255
270
285
300
315
330
345
360
-6
-8
-10
-12
-14