



Approval Sheet

Customer	Jin dong fang	Data	2023/03/21
Product	BT Antennas	Models	W121
P/N	B172	Customer P/N	
Specifications	Black FPC; Gold finger plating		

Vender Approved By	Customer Approved By
	
Checked By:	Checked By:
Audit By:	Audit By:
Approval By:	Approval By:

File Revision Table

Version	Revise The Content	Revused	Approval	Date	Note



Content		
NO.	Proect	Page NO.
1	Specification	3
2	Antenna Placement	4
3	Antenna Measured	4
4	Test Data	5
5	Antenna Assembly	6
6	Inspection Standard	7
7	Outgoing Inspection Report	8
8	Packing Specification	9



Specification

1.1 Electrical Properties

Characteristics	Specifications
Working Band	2.4G BT
Antenna From	FPC
Impedance	50 Ω
Polarization	Linear
Peak Effi	16%@2.4G
Peak Gain	-2.7dBi@2.4G

1.2 Physical Properties

Characteristics	Specifications
Operating Temp	-10°C~+60°C
Storage Temp	-10°C~+70°C
Humidity	10~95%RH

Antenna Placement



Antenna Measured

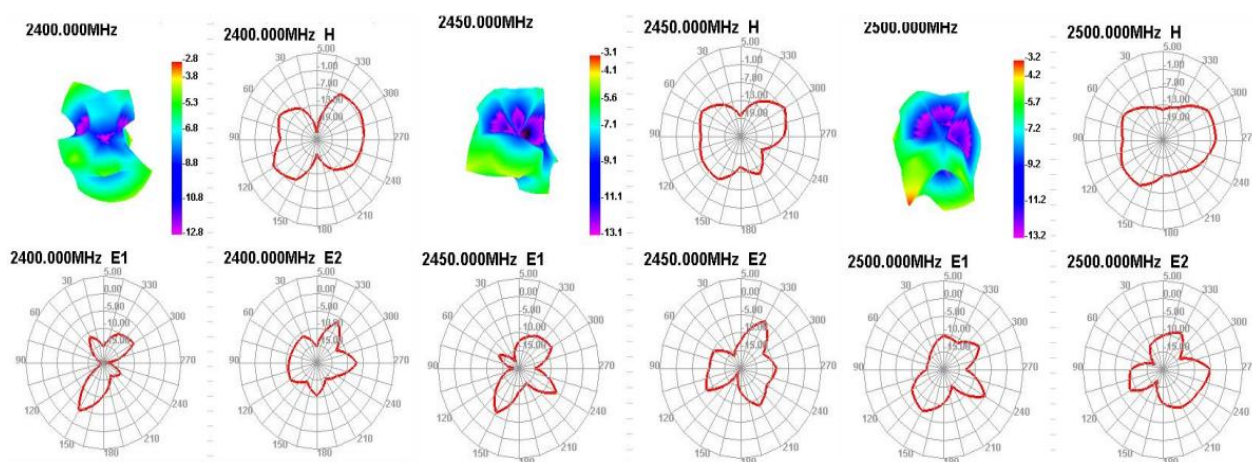
Test environment: Open space (channel)
Test distance: 15M
Test result: OK

Test Data

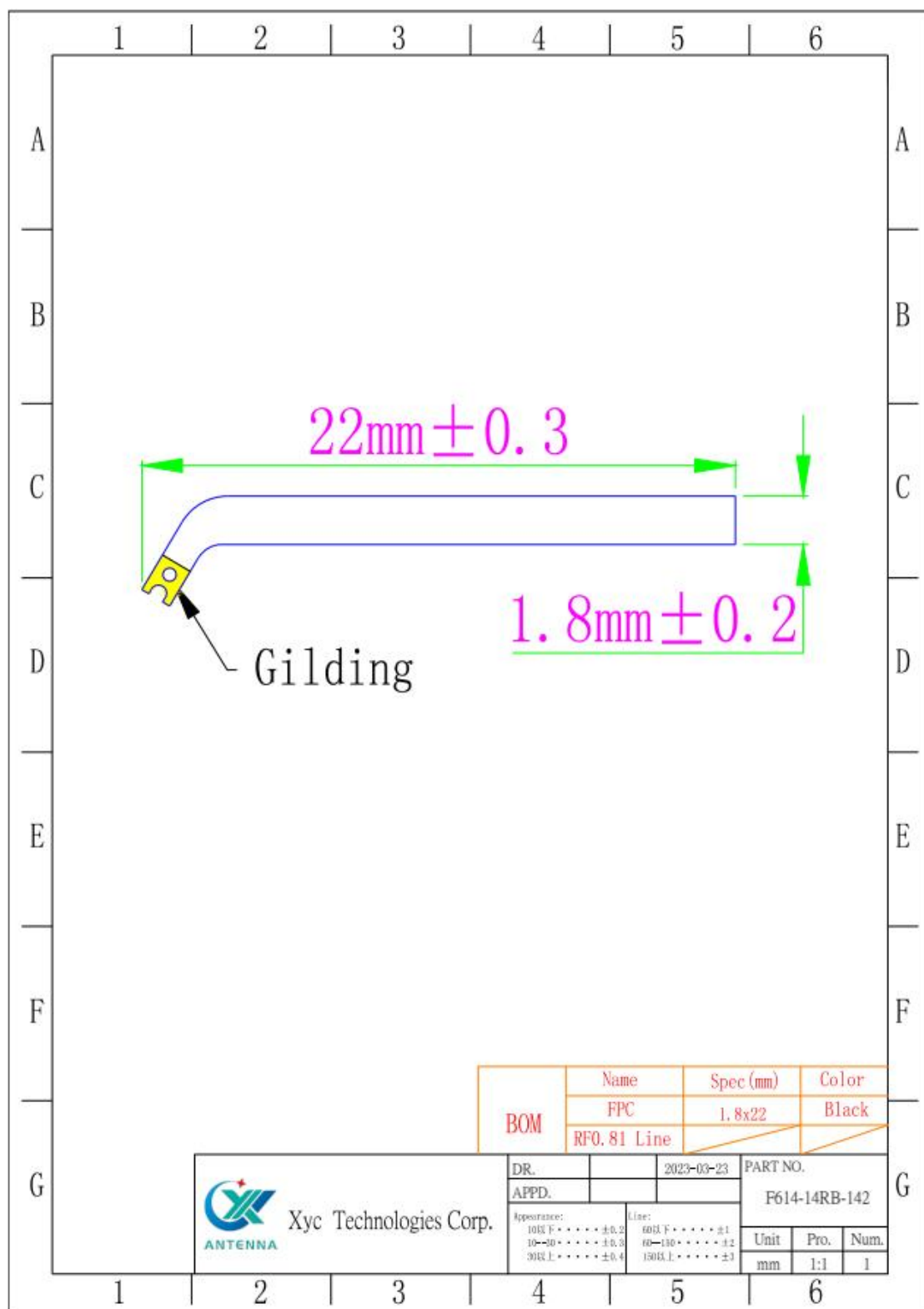
Efficiency Table

Passive Test For WIFI2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
2400	9.68	-10.14	-2.78	-4.93	4.834	4.849	-2.78	-22.85
2410	8.31	-10.8	-3.26	-5.41	3.936	4.376	-3.26	-23.31
2420	9.27	-10.33	-2.98	-5.13	4.303	4.967	-2.98	-23.01
2430	10.45	-9.81	-2.83	-4.98	5.007	5.445	-2.83	-21.03
2440	11.05	-9.57	-3.05	-5.2	5.38	5.669	-3.05	-20.75
2450	11.56	-9.37	-3.1	-5.25	5.51	6.045	-3.1	-19.45
2460	12.49	-9.04	-3.11	-5.26	5.774	6.713	-3.11	-18.67
2470	13.25	-8.78	-3.44	-5.59	5.937	7.309	-3.44	-17.18
2480	14.52	-8.38	-3.63	-5.78	6.359	8.158	-3.63	-15.94
2490	16.01	-7.96	-3.14	-5.29	6.93	9.076	-3.14	-15.97
2500	14.74	-8.31	-3.16	-5.31	6.465	8.278	-3.16	-17.95

Radiation Pattern



Antenna Assembly





Inspection Standard

Xyc Technologies Corp.	File Cod.	XYC-WI-PZ-02	Page.
	File Vers.	A0	1 of 1
File Name	Sampling Plan		

Sampling Level Table

Special Check				General			Batch Scope	Sample Word	Sampling	0.65		1.0		1.5		2.5		4.0		6.0	
S-1	S-2	S-3	S-4	I	II	III				AC	RE	AC	RE	AC	RE	AC	RE	AC	RE	AC	RE
A	A	A	A	A	A	B	2--8	A	2	0	1	0	1	0	1	0	1	0	1	0	1
A	A	A	A	A	B	C	9--15	B	3	0	1	0	1	0	1	0	1	0	1	0	1
A	A	B	B	B	C	D	16--25	C	5	0	1	0	1	0	1	0	1	0	1	1	2
A	B	B	C	C	D	E	26--50	D	8	0	1	0	1	0	1	0	1	1	2	1	2
B	B	C	C	C	E	F	51--90	E	13	0	1	0	1	0	1	1	2	1	2	2	3
B	B	C	D	D	F	G	91--150	F	20	0	1	0	1	1	2	1	2	2	3	3	4
B	C	D	E	E	G	H	151--280	G	32	0	1	1	2	1	2	2	3	3	4	5	6
B	C	D	E	F	H	J	281--500	H	50	1	2	1	2	2	3	3	4	5	6	7	8
C	C	E	F	G	J	K	501--1200	J	80	1	2	2	3	3	4	5	6	7	8	10	11
C	D	E	G	H	K	L	1201--3200	K	125	2	3	3	4	5	6	7	8	10	11	14	15
C	D	F	G	J	L	M	3201--10000	L	200	3	4	5	6	7	8	10	11	14	15	21	22
C	D	F	H	K	M	N	10001--35000	M	315	5	6	7	8	10	11	14	15	21	22	21	22
D	E	G	J	L	N	P	35001--150000	N	500	7	8	10	11	14	15	21	22	21	22	21	22
D	E	G	J	M	P	Q	150001--500000	P	800	10	11	14	15	21	22	21	22	21	22	21	22
D	E	H	K	N	Q	R	500001and over	Q	1250	14	15	21	22	21	22	21	22	21	22	21	22
								R	2000	21	22	21	22	21	22	21	22	21	22	21	22

AC-Qualified RE-No Qualified



Outgoing Inspection Report

Customer	jindongfang	Product	BT Antennas	Quantity shipped	5	Sampling quantity	2	
Models	W121	P/N	B172	Shipping date	2023/03/23			
Sampling standard	☒ Normal inspection ☐ Tightened inspection ☐ Decrement inspection							
Sampling mode	MIL-STD-105D (II) Single sampling Acceptance limit AQL:CR: 0 Maj: 2.5 Min: 4.0							
Quality acceptance level			CR Acc	0	Maj ACC	0	Min ACC	0
			CR REJ	1	Maj REJ	1	Min REJ	1
project	program of tests	examination requirement	test method	inspection result				decide
				1	2	3	4	
Dimensi onal inspecti on	FPC shape	1.8mm±0.2	calliper	1.8	1.8			OK
	FPC shape	22mm±0.3	calliper	22	21.9			OK
project	program of tests	examination requirement	test method	Defect description	C R	Maj	Min	判定
visual inspectio	Silk screen printing	The silk screen printing must be consistent with the product drawing	visual	No abnormality	0	0	0	OK
	Ink	Ink needs to be complete, no bad injection oil	visual	No abnormality	0	0	0	OK
	Goldfinger	No oxidation, no scratching phenomenon	visual	No abnormality	0	0	0	OK
electrical specifica tion								
final judgment	☒ OK ☐ NG							

FORM ID NO: XYC-WF-PZ-001

Packing Specification

