

TEST REPORT

Product Name : Wi-Fi/BT Module
Brand Mark : HUNAN FN-LINK
Model No. : 6223N-SRD
FCC ID : 2AATL-6223N-SRD
Report Number : BLA-EMC-202102-A4203
Date of Sample Receipt : 2021/2/23
Date of Test : 2021/2/23 to 2021/3/10
Date of Issue : 2021/3/10
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Prepared for:

HUNAN FN-LINK TECHNOLOGY LIMITED

**No.8, Litong Road, Liuyang Economic & Technical Development Zone,
Changsha, Hunan, CHINA**

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

**Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China**

TEL: +86-755-23059481

Compiled by:

Jozu .

Review by:

Sweet. liang

Approved by:

Jmen li

Date:

2021/3/11



REPORT REVISE RECORD

Version No.	Date	Description
00	2021/3/11	Original

BlueAsia

TABLE OF CONTENTS

1 TEST SUMMARY	6
2 GENERAL INFORMATION	7
3 GENERAL DESCRIPTION OF E.U.T.....	7
4 BLOCK DIAGRAM OF EUT CONNECTION	7
5 TEST ENVIRONMENT	8
6 TEST MODE	8
7 MEASUREMENT UNCERTAINTY	8
8 DESCRIPTION OF SUPPORT UNIT.....	9
9 LABORATORY LOCATION.....	9
10 TEST INSTRUMENTS LIST	10
1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....	14
1.1 LIMITS	14
1.2 BLOCK DIAGRAM OF TEST SETUP	14
1.3 PROCEDURE	14
1.4 TEST DATA	16
2 RADIATED SPURIOUS EMISSIONS.....	18
2.1 LIMITS	18
2.2 BLOCK DIAGRAM OF TEST SETUP	19
2.3 PROCEDURE	19
2.4 TEST DATA	21
3 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....	29
3.1 LIMITS	29
3.2 BLOCK DIAGRAM OF TEST SETUP	30
3.3 PROCEDURE	30
3.4 TEST DATA	32
4 CONDUCTED SPURIOUS EMISSIONS	36
4.1 LIMITS	36
4.2 BLOCK DIAGRAM OF TEST SETUP	36
4.3 TEST DATA	36
5 DWELL TIME	37

5.1	LIMITS	37
5.2	BLOCK DIAGRAM OF TEST SETUP	37
5.3	EST DATA	37
6	CONDUCTED BAND EDGES MEASUREMENT.....	38
6.1	LIMITS	38
6.2	BLOCK DIAGRAM OF TEST SETUP	38
6.3	TEST DATA	38
7	ANTENNA REQUIREMENT.....	39
7.1	CONCLUSION	39
8	HOPPING CHANNEL NUMBER.....	40
8.1	LIMITS	40
8.2	BLOCK DIAGRAM OF TEST SETUP	40
8.3	TEST DATA	40
9	CARRIER FREQUENCIES SEPARATION	41
9.1	LIMITS	41
9.2	BLOCK DIAGRAM OF TEST SETUP	41
9.3	TEST DATA	41
10	20DB BANDWIDTH.....	42
10.1	BLOCK DIAGRAM OF TEST SETUP	42
10.2	TEST DATA.....	42
11	CONDUCTED PEAK OUTPUT POWER	43
11.1	LIMITS	43
11.2	BLOCK DIAGRAM OF TEST SETUP	43
11.3	EST DATA.....	43
11	APPENDIX.....	44
11.1	APPENDIX A: 20dB EMISSION BANDWIDTH.....	44
	<i>Test Result.....</i>	44
	<i>Test Graphs.....</i>	45
11.2	APPENDIX : OCCUPIED CHANNEL BANDWIDTH.....	48
	<i>Test Result.....</i>	48
	<i>Test Graphs.....</i>	49
11.3	APPENDIX : MAXIMUM CONDUCTED OUTPUT POWER	52

<i>Test Result</i>	52
<i>Test Graphs</i>	53
11.4 APPENDIX : CARRIER FREQUENCY SEPARATION	56
<i>Test Result</i>	56
<i>Test Graphs</i>	57
11.5 APPENDIX : TIME OF OCCUPANCY	58
<i>Test Result</i>	58
<i>Test Graphs</i>	59
11.6 APPENDIX : NUMBER OF HOPPING CHANNELS.....	61
<i>Test Result</i>	61
<i>Test Graphs</i>	62
11.7 APPENDIX G: BAND EDGE MEASUREMENTS.....	63
<i>Test Result</i>	63
<i>Test Graphs</i>	64
11.8 APPENDIX : CONDUCTED SPURIOUS EMISSION.....	68
<i>Test Result</i>	68
<i>Test Graphs</i>	69
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	78
APPENDIX B: PHOTOGRAPHS OF EUT	80

1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Dwell Time	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass

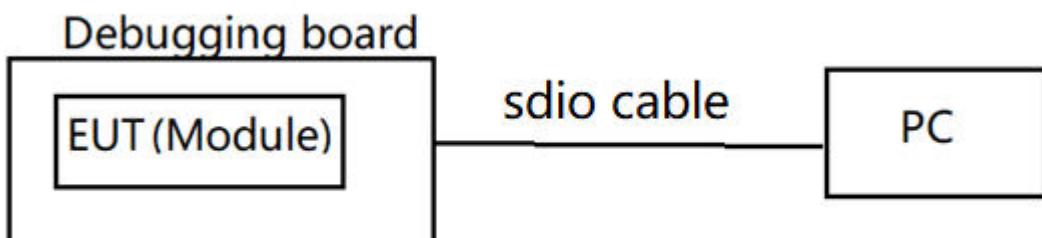
2 GENERAL INFORMATION

Applicant	HUNAN FN-LINK TECHNOLOGY LIMITED
Address	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
Manufacturer	HUNAN FN-LINK TECHNOLOGY LIMITED
Address	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
Factory	HUNAN FN-LINK TECHNOLOGY LIMITED
Address	No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, CHINA
Product Name	Wi-Fi/BT Module
Test Model No.	6223N-SRD

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	1.0
Software Version	1.0
Operation Frequency:	2402Mhz~2480MHz
Modulation Type:	GFSK, p/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Internal Antenna
Antenna Gain:	1.2 dBi(Provided by customer)

4 BLOCK DIAGRAM OF EUT CONNECTION



5 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	3.3Vdc

6 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
TX	Keep the EUT in transmitting mode

Remark: Only the data of the worst mode would be recorded in this report.

7 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

8 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HASEE	K610D	N/A	N/A

Note:

-- means no any support device during testing.

9 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

10 TEST INSTRUMENTS LIST

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	2020/11/25	2023/11/24
Receiver	R&S	ESPI3	101082	2020/10/12	2021/10/11
LISN	R&S	ENV216	3560.6550.15	2020/10/12	2021/10/11
LISN	安泰信	AT166-2	AKK1806000003	2020/10/12	2021/10/11
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Conducted Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Dwell Time					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due

Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Conducted Band Edges Measurement

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Hopping Channel Number

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Carrier Frequencies Separation

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11

Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11
------------------	---------	--------	------------	------------	------------

Test Equipment Of 20dB Bandwidth

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Conducted Peak Output Power

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

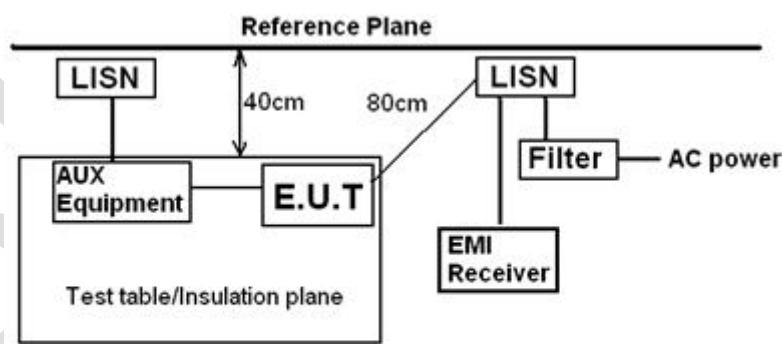
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

1.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

1.2 BLOCK DIAGRAM OF TEST SETUP



Remark
E.U.T: Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height=0.8m

1.3 PROCEDURE

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50?H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

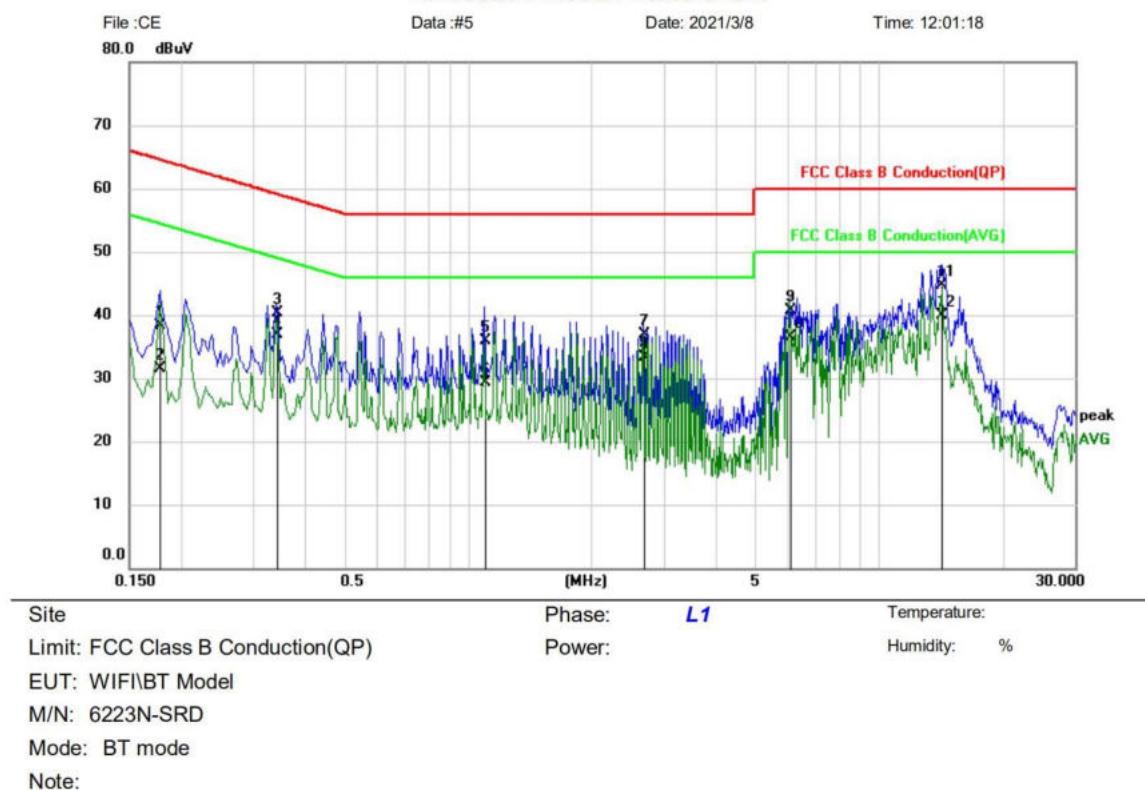
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

BlueAsia

1.4 TEST DATA

[TestMode: TX]; [Line: Line];[Power:AC120V/60Hz]

Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1780	28.45	9.82	38.27	64.58	-26.31	QP
2		0.1780	21.78	9.82	31.60	54.58	-22.98	AVG
3		0.3420	30.53	9.85	40.38	59.15	-18.77	QP
4		0.3420	27.05	9.85	36.90	49.15	-12.25	AVG
5		1.0980	26.00	9.92	35.92	56.00	-20.08	QP
6		1.0980	19.47	9.92	29.39	46.00	-16.61	AVG
7		2.6660	26.96	9.96	36.92	56.00	-19.08	QP
8		2.6660	23.37	9.96	33.33	46.00	-12.67	AVG
9		6.0820	30.56	10.06	40.62	60.00	-19.38	QP
10		6.0820	26.43	10.06	36.49	50.00	-13.51	AVG
11		14.1540	34.43	10.32	44.75	60.00	-15.25	QP
12	*	14.1540	29.61	10.32	39.93	50.00	-10.07	AVG

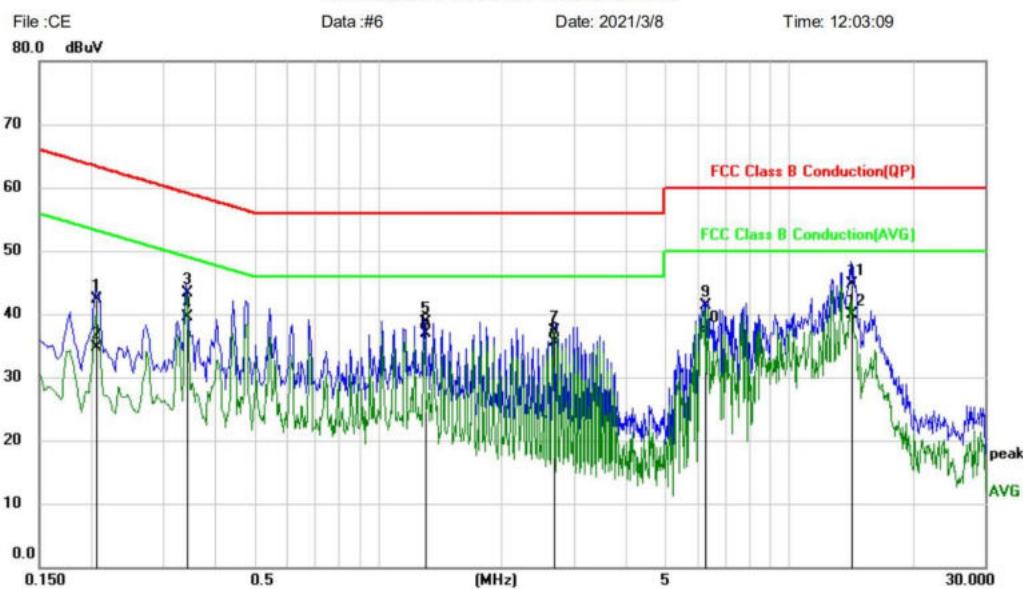
*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX]; [Line: Neutral] ;[Power:AC120V/60Hz]

Conducted Emission Measurement



Site	Phase:	N	Temperature:
Limit: FCC Class B Conduction(QP)	Power:		Humidity: %
EUT: WIFI\BT Model			
M/N: 6223N-SRD			
Mode: BT mode			
Note:			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.2060	32.58	9.75	42.33	63.37	-21.04	QP
2		0.2060	25.02	9.75	34.77	53.37	-18.60	AVG
3		0.3420	33.45	9.77	43.22	59.15	-15.93	QP
4		0.3420	29.73	9.77	39.50	49.15	-9.65	AVG
5		1.2980	28.94	9.85	38.79	56.00	-17.21	QP
6	*	1.2980	27.05	9.85	36.90	46.00	-9.10	AVG
7		2.6660	27.35	9.89	37.24	56.00	-18.76	QP
8		2.6660	25.55	9.89	35.44	46.00	-10.56	AVG
9		6.2220	31.25	9.99	41.24	60.00	-18.76	QP
10		6.2220	27.30	9.99	37.29	50.00	-12.71	AVG
11		14.1540	34.49	10.28	44.77	60.00	-15.23	QP
12		14.1540	29.69	10.28	39.97	50.00	-10.03	AVG

*:Maximum data x:Over limit !:over margin

⟨Reference Only⟩

Test Result: Pass

2 RADIATED SPURIOUS EMISSIONS

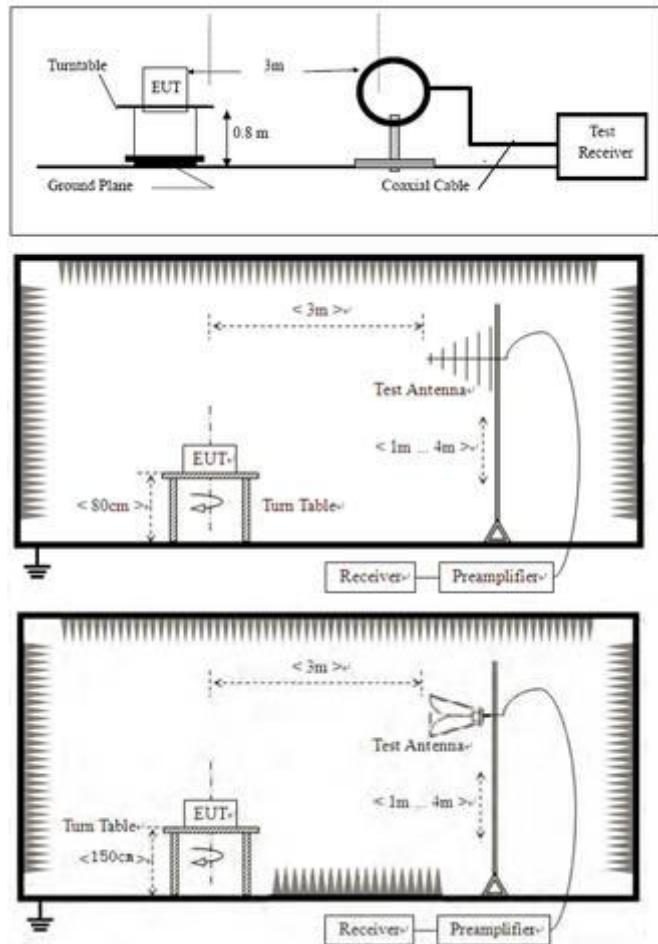
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX;TX mode (SE) below 1G
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

2.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

2.2 BLOCK DIAGRAM OF TEST SETUP



2.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

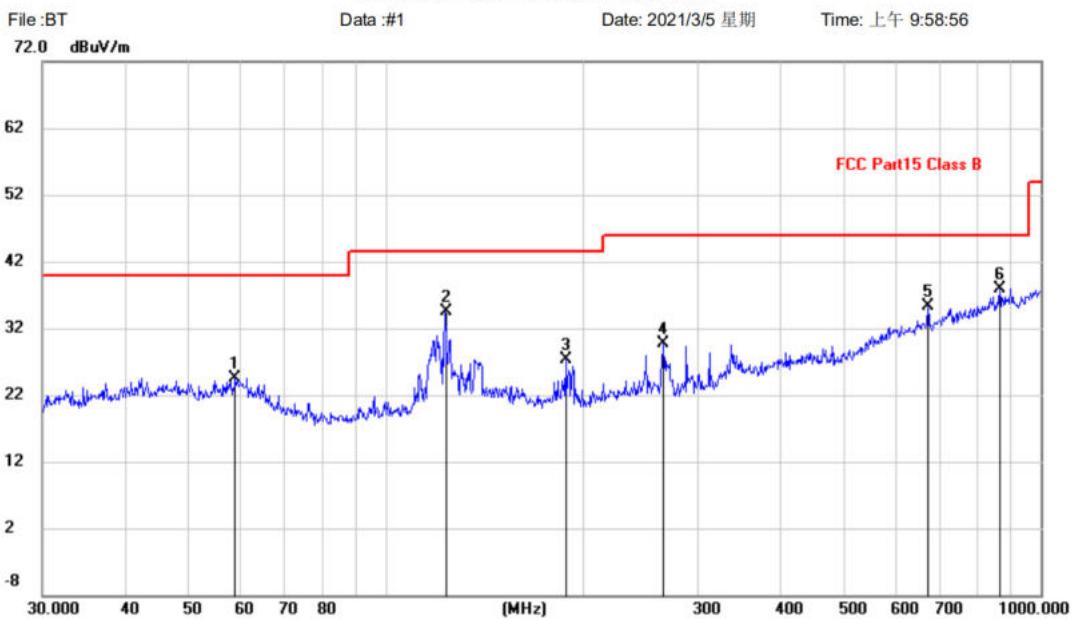
Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

2.4 TEST DATA

[TestMode: TX mode (SE) below 1G]; [Polarity: Horizontal]

Radiated Emission Measurement



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 Class B

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: TX mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		59.0251	1.04	23.48	24.52	40.00	-15.48	QP			
2		123.2655	11.73	22.70	34.43	43.50	-9.07	QP			
3		188.4124	6.14	21.12	27.26	43.50	-16.24	QP			
4		265.6757	6.64	23.02	29.66	46.00	-16.34	QP			
5		672.8444	2.97	32.25	35.22	46.00	-10.78	QP			
6	*	866.0878	2.57	35.26	37.83	46.00	-8.17	QP			

*:Maximum data

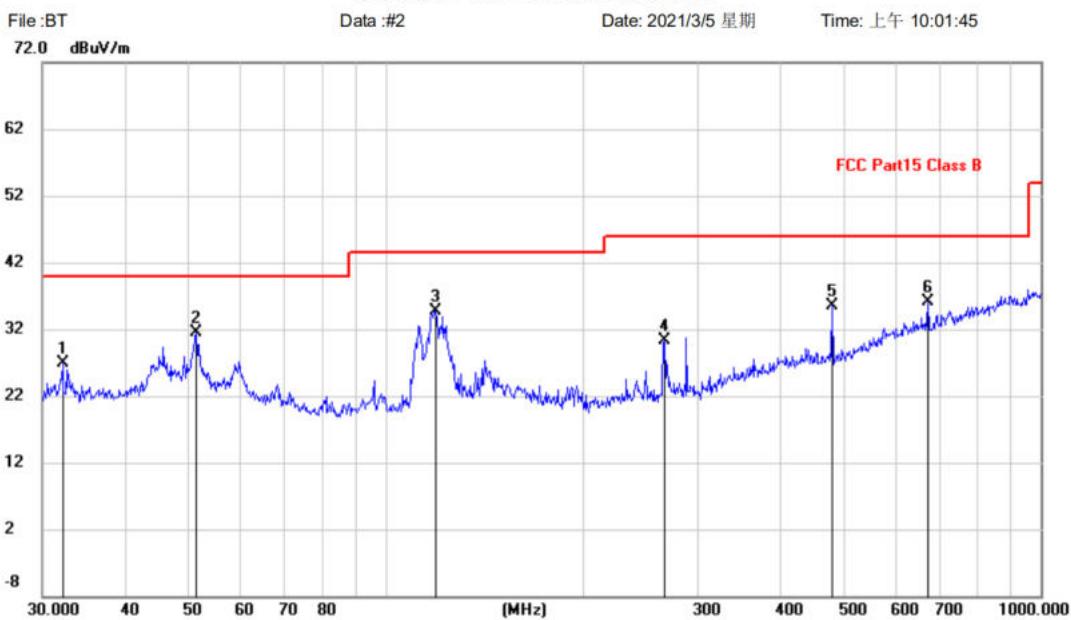
x:Over limit

!:over margin

(Reference Only)

Test Result: Pass

[TestMethod: TX mode (SE) below 1G]; [Polarity: Vertical]

Radiated Emission Measurement


Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 Class B

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: TX mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment				Degree	Comment
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	
1		32.1795	4.48	22.47	26.95	40.00	-13.05	QP		
2 *		51.4807	7.71	23.74	31.45	40.00	-8.55	QP		
3		119.0180	12.19	22.48	34.67	43.50	-8.83	QP		
4		266.6089	7.27	23.06	30.33	46.00	-15.67	QP		
5		480.5276	7.25	28.17	35.42	46.00	-10.58	QP		
6		672.8444	3.80	32.25	36.05	46.00	-9.95	QP		

*:Maximum data x:Over limit !:over margin

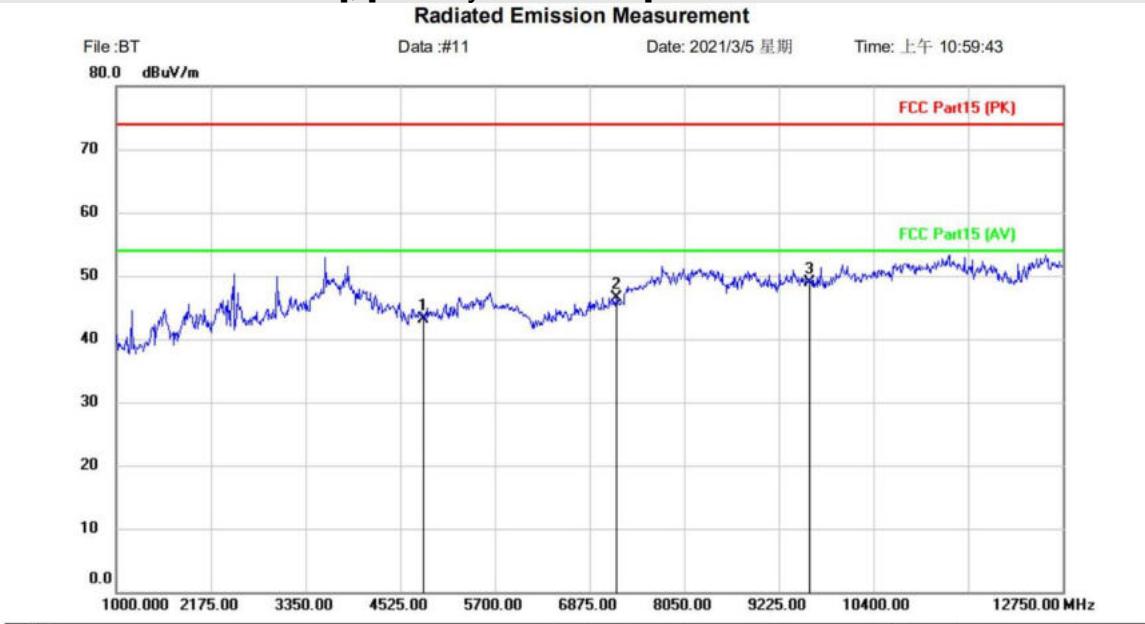
(Reference Only)

Test Result: Pass



Remark: During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

[TestMode: TX Low channel]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: WIFI/BT Model	Distance: 3m	
M/N: 6223N-SRD		
Mode: BT-TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4808.000	50.46	-7.29	43.17	74.00	-30.83	peak			
2		7206.000	50.88	-4.42	46.46	74.00	-27.54	peak			
3	*	9608.000	49.26	-0.29	48.97	74.00	-25.03	peak			

*:Maximum data x:Over limit !:over margin

⟨Reference Only

Test Result: Pass



[TestMode: TX Low channel]; [Polarity: Vertical]

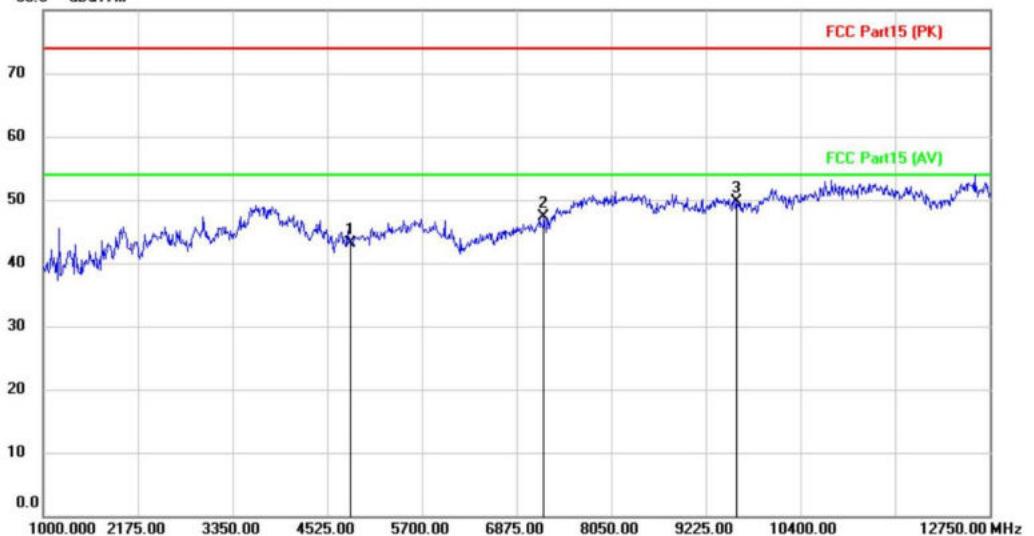
Radiated Emission Measurement

File : BT

Data :#12

Date: 2021/3/5 星期

Time: 上午 11:03:02



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

FUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-L

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4808.000	50.33	-7.29	43.04	74.00	-30.96	peak			
2		7206.000	51.66	-4.42	47.24	74.00	-26.76	peak			
3	*	9608.000	50.09	-0.29	49.80	74.00	-24.20	peak			

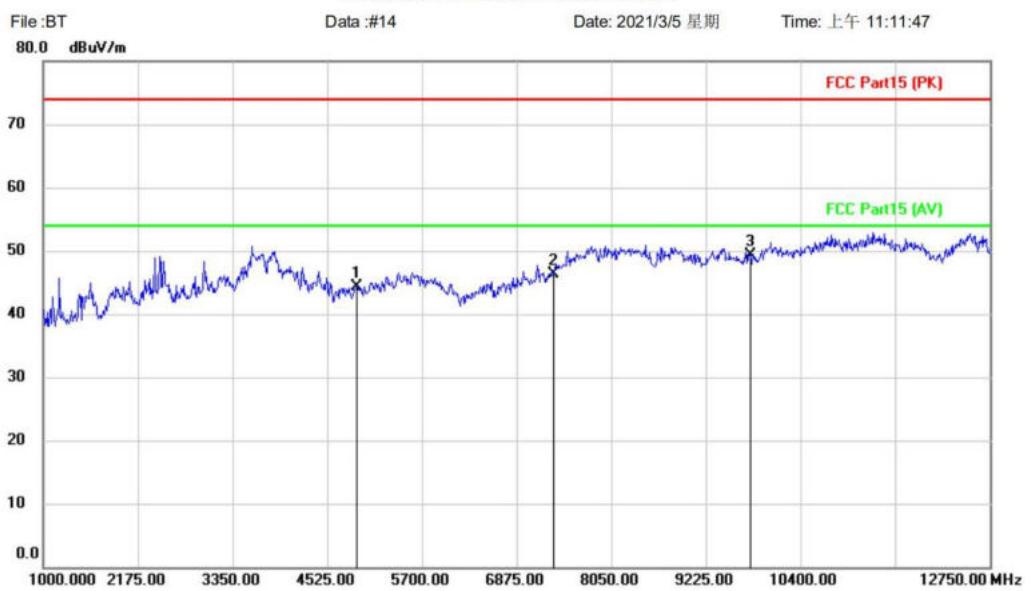
*:Maximum data x:Over limit !:over margin

⟨Reference Only

Test Result: Pass

[TestMode: TX middle channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-M

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		4884.000	51.79	-7.52	44.27	74.00	-29.73	peak		
2		7326.000	49.67	-3.34	46.33	74.00	-27.67	peak		
3	*	9768.000	48.64	0.58	49.22	74.00	-24.78	peak		

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX middle channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-M

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		4884.000	51.97	-7.52	44.45	74.00	-29.55	peak			
2		7326.000	51.32	-3.34	47.98	74.00	-26.02	peak			
3	*	9768.000	48.92	0.58	49.50	74.00	-24.50	peak			

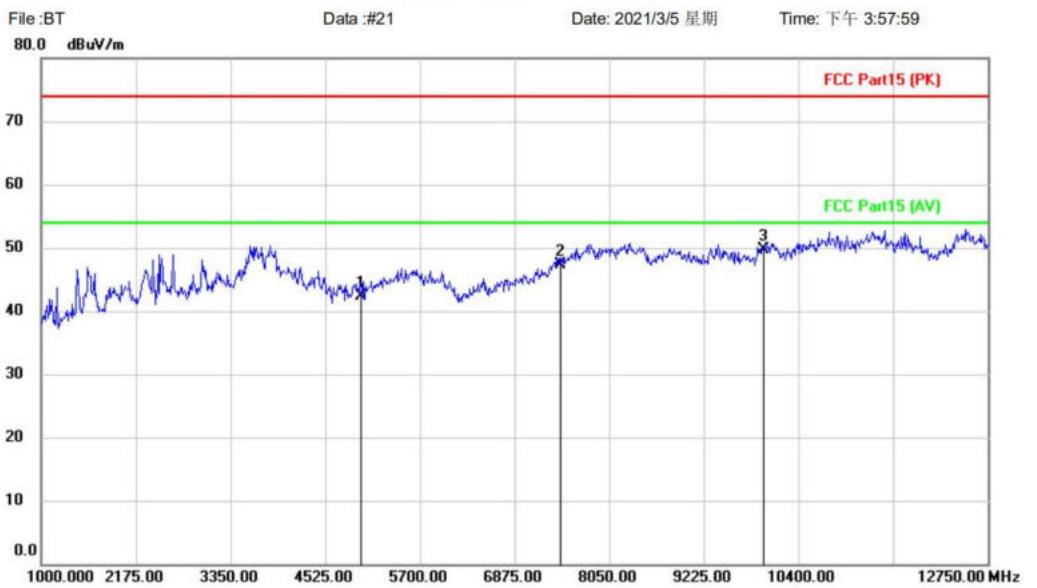
*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-H

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector	Antenna Height cm	Table Degree degree	Comment
1		4960.000	49.30	-6.99	42.31	74.00	-31.69	peak			
2		7440.000	49.69	-2.43	47.26	74.00	-26.74	peak			
3	*	9960.000	47.81	1.92	49.73	74.00	-24.27	peak			

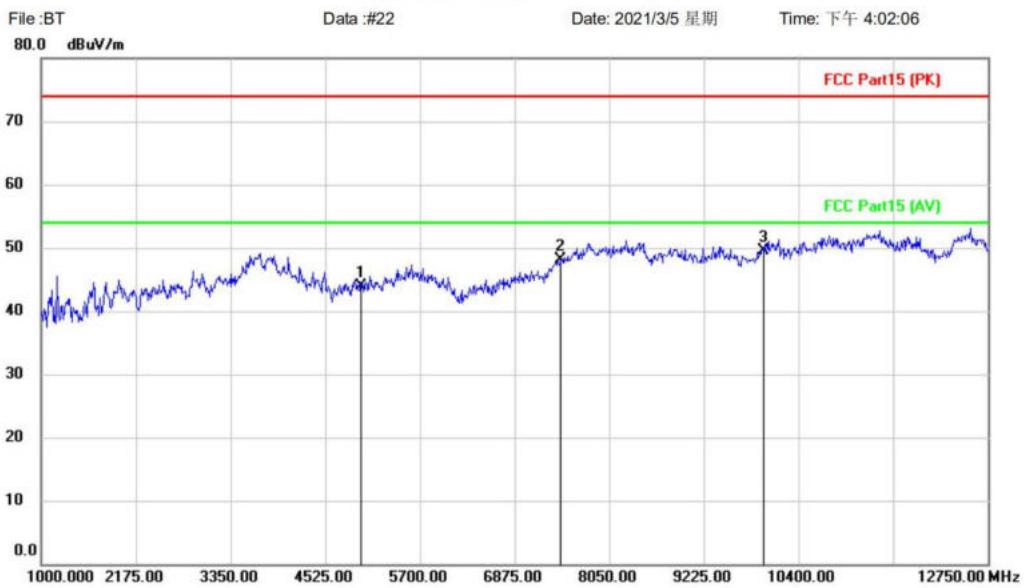
*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-H

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Over Detector	Antenna Height cm	Table Degree degree	Comment
1		4960.000	50.85	-6.99	43.86	74.00	-30.14	peak			
2		7440.000	50.45	-2.43	48.02	74.00	-25.98	peak			
3	*	9960.000	47.60	1.92	49.52	74.00	-24.48	peak			

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

3 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

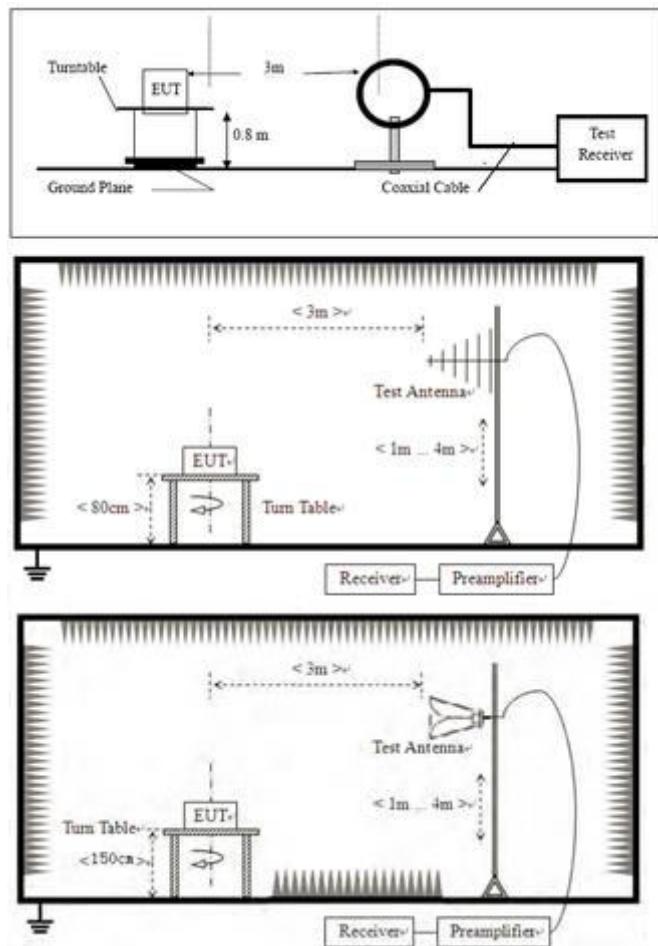
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX Low channel;TX high channel
Test Mode (Final Test)	TX Low channel;TX high channel
Tester	Jozu
Temperature	25°C
Humidity	60%

3.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

3.2 BLOCK DIAGRAM OF TEST SETUP



3.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

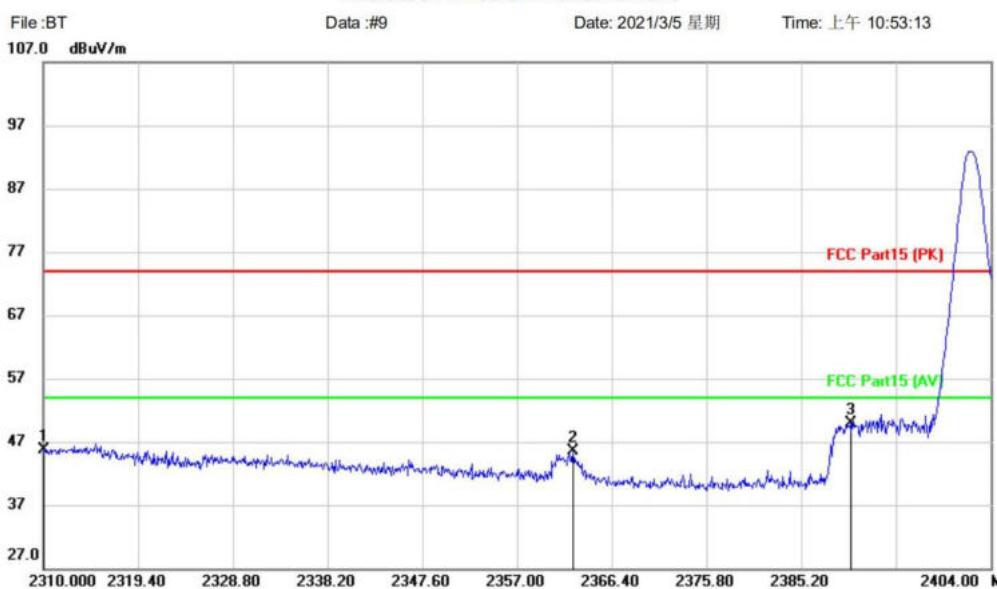
BlueAsia

3.4 TEST DATA

Remark: During the test, pre-scan the GFSK, Pi/4QPSK, 8-DPSK modulation, and found the 8-DPSK modulation which it is worse case.

[TestMode: TX Low channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-L

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2310.000	64.40	-18.60	45.80	74.00	-28.20	peak			
2		2362.546	63.95	-18.45	45.50	74.00	-28.50	peak			
3 *		2390.000	68.27	-18.37	49.90	74.00	-24.10	peak			

Test Result: Pass

[TestMethod: TX Low channel]; [Polarity: Vertical]

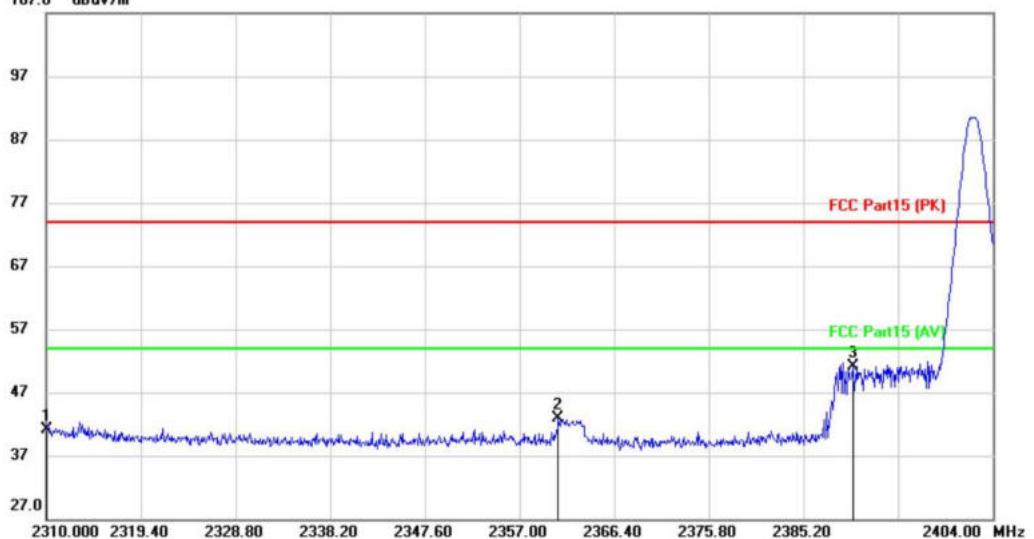
Radiated Emission Measurement

File :BT
107.0 dBuV/m

Data :#10

Date: 2021/3/5 星期

Time: 上午 10:55:53



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-L

Note:

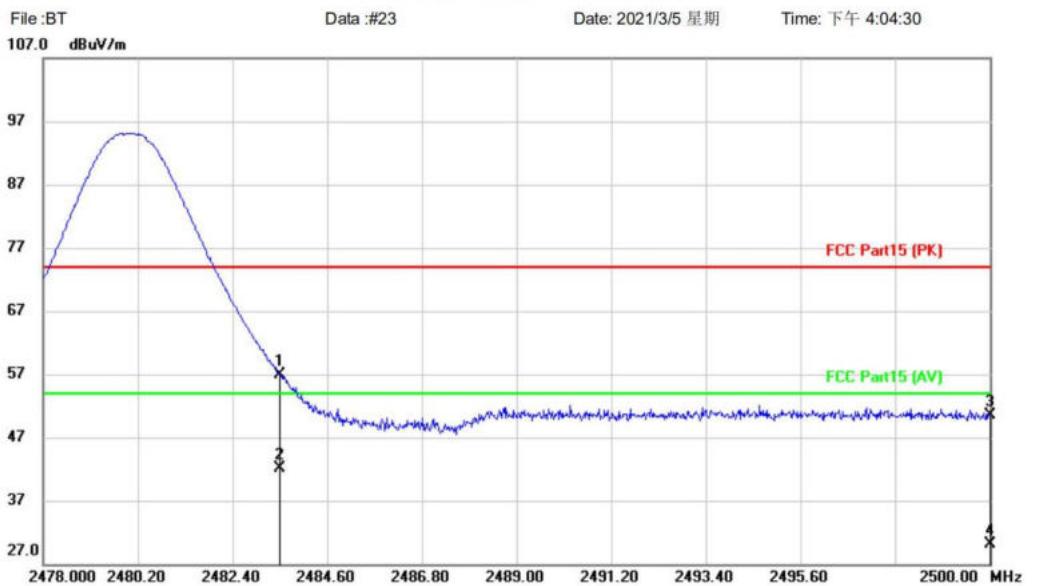
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm		Table Degree	Comment
								Detector	degree		
1		2310.000	59.66	-18.60	41.06	74.00	-32.94	peak			
2		2360.854	61.33	-18.45	42.88	74.00	-31.12	peak			
3 *		2390.000	69.50	-18.37	51.13	74.00	-22.87	peak			

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMode: TX high channel]; [Polarity: Horizontal]

Radiated Emission Measurement


Site

Polarization: **Horizontal**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-H

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2483.500	71.72	-14.79	56.93	74.00	-17.07	peak			
2	*	2483.500	56.84	-14.79	42.05	54.00	-11.95	AVG			
3		2500.000	65.30	-14.72	50.58	74.00	-23.42	peak			
4		2500.000	44.79	-14.72	30.07	54.00	-23.93	AVG			

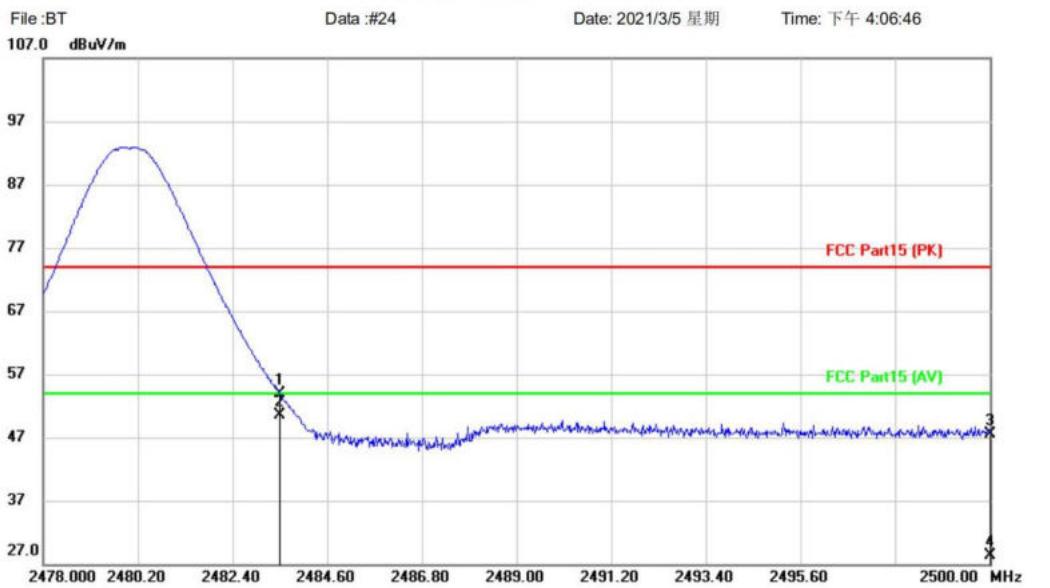
*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[TestMethod: TX high channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site

Polarization: **Vertical**

Temperature:

Limit: FCC Part15 (PK)

Power:

Humidity: %

EUT: WIFI/BT Model

Distance: 3m

M/N: 6223N-SRD

Mode: BT-TX-H

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	68.77	-14.79	53.98	74.00	-20.02	peak		
2	*	2483.500	65.28	-14.79	50.49	54.00	-3.51	AVG		
3		2500.000	62.21	-14.72	47.49	74.00	-26.51	peak		
4		2500.000	43.00	-14.72	28.28	54.00	-25.72	AVG		

*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

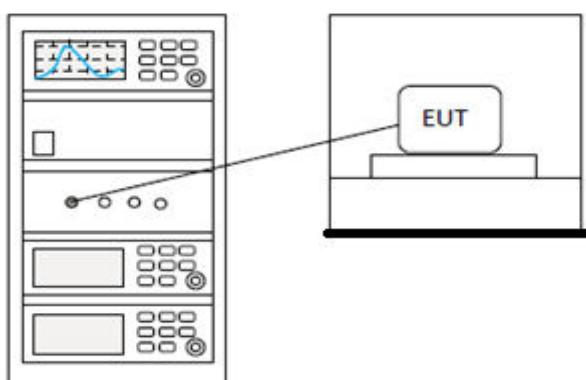
4 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

4.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
---------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

4.2 BLOCK DIAGRAM OF TEST SETUP



4.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

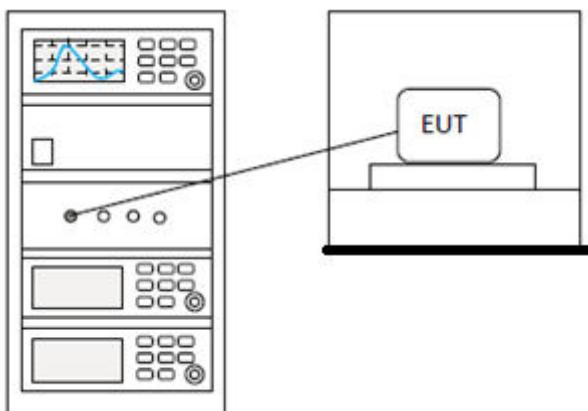
5 DWELL TIME

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.4
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

5.1 LIMITS

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

5.2 BLOCK DIAGRAM OF TEST SETUP



5.3 EST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

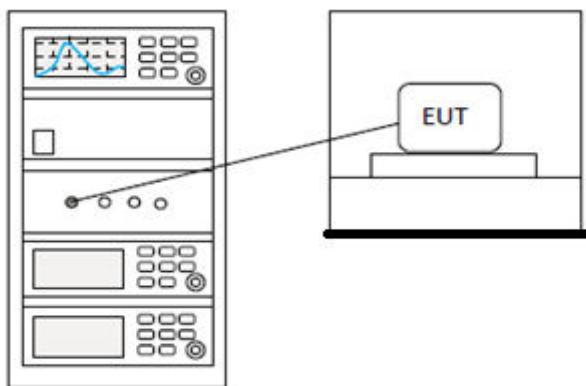
6 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

6.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
---------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

6.2 BLOCK DIAGRAM OF TEST SETUP



6.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

7 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

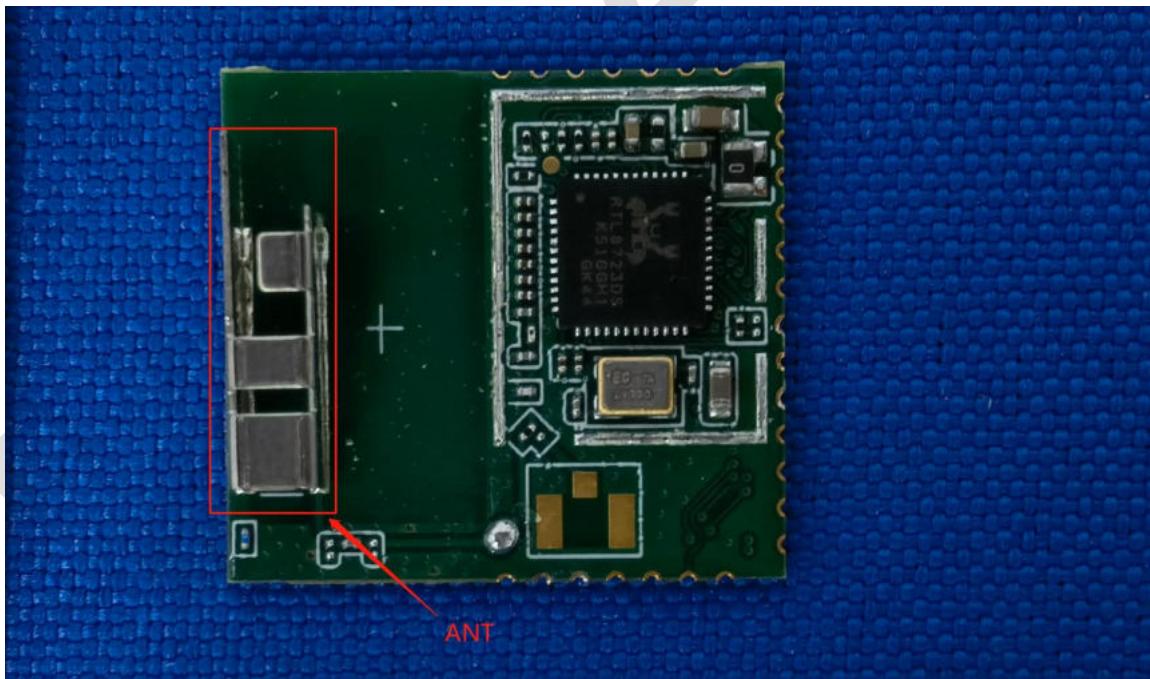
7.1 CONCLUSION

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.2dBi.



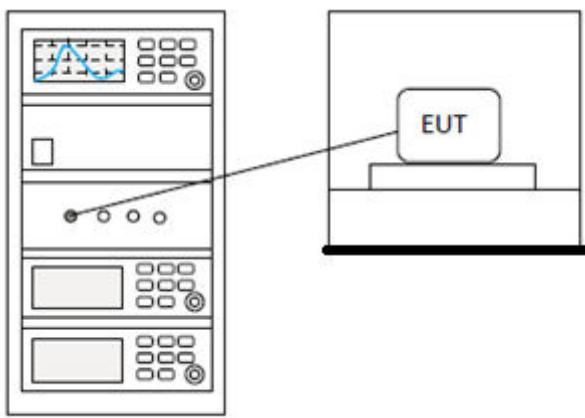
8 HOPPING CHANNEL NUMBER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.3
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

8.1 LIMITS

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

8.2 BLOCK DIAGRAM OF TEST SETUP



8.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

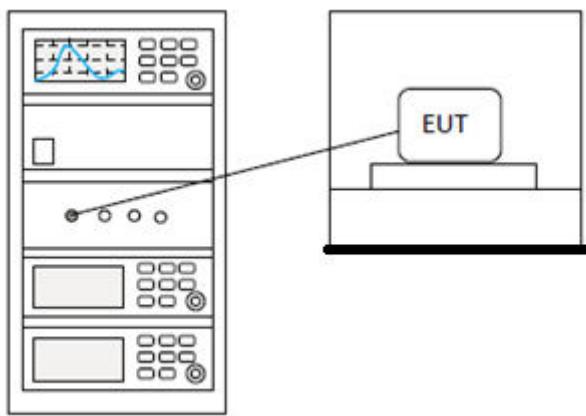
9 CARRIER FREQUENCIES SEPARATION

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

9.1 LIMITS

Limit: 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

9.2 BLOCK DIAGRAM OF TEST SETUP



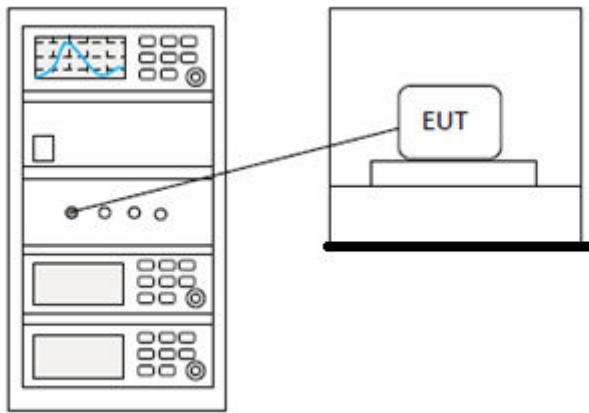
9.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

10 20DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.7
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

10.1 BLOCK DIAGRAM OF TEST SETUP



10.2 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

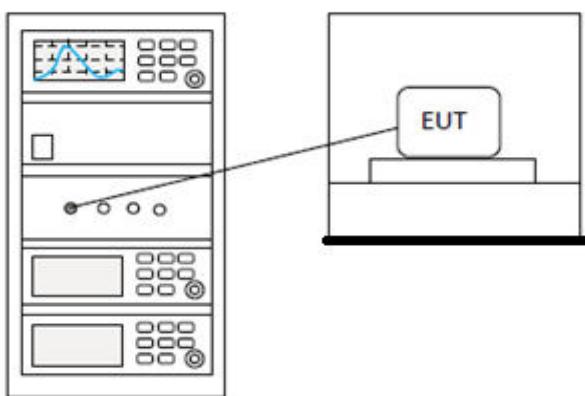
11 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25 °C
Humidity	60%

11.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 EST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

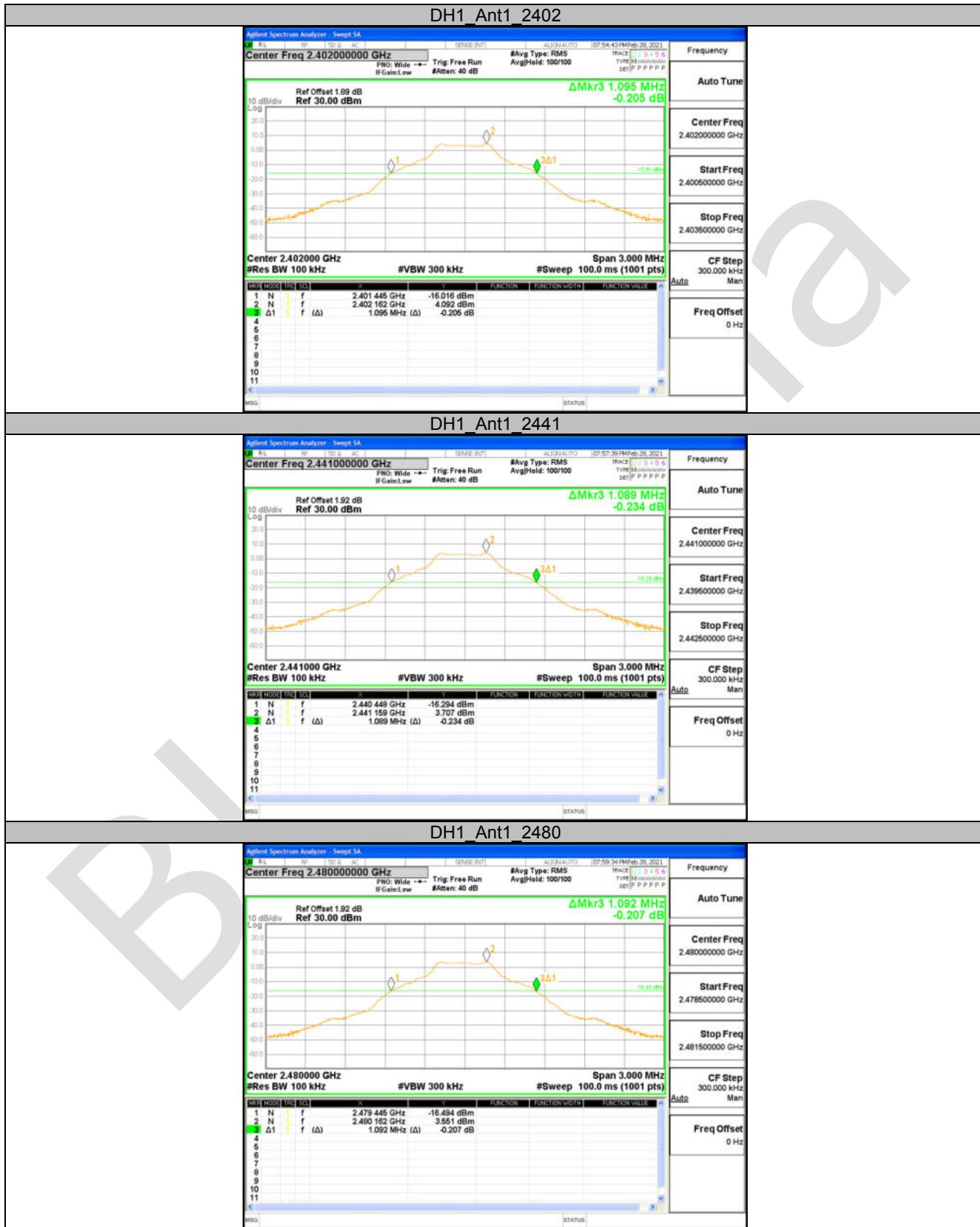
11 APPENDIX

11.1 APPENDIX A: 20DB EMISSION BANDWIDTH

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	1.095	2401.445	2402.540	---	PASS
		2441	1.089	2440.448	2441.537	---	PASS
		2480	1.092	2479.445	2480.537	---	PASS
2DH1	Ant1	2402	1.386	2401.310	2402.696	---	PASS
		2441	1.386	2440.310	2441.696	---	PASS
		2480	1.386	2479.307	2480.693	---	PASS
3DH1	Ant1	2402	1.347	2401.337	2402.684	---	PASS
		2441	1.347	2440.337	2441.684	---	PASS
		2480	1.350	2479.334	2480.684	---	PASS

Test Graphs







11.2 APPENDIX : OCCUPIED CHANNEL BANDWIDTH

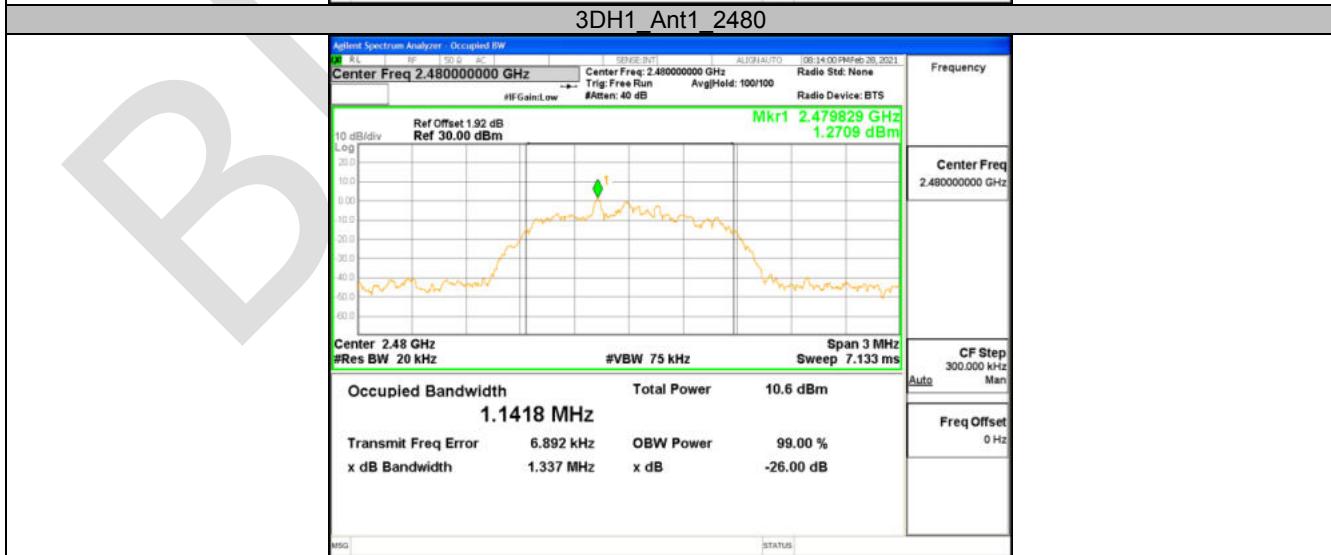
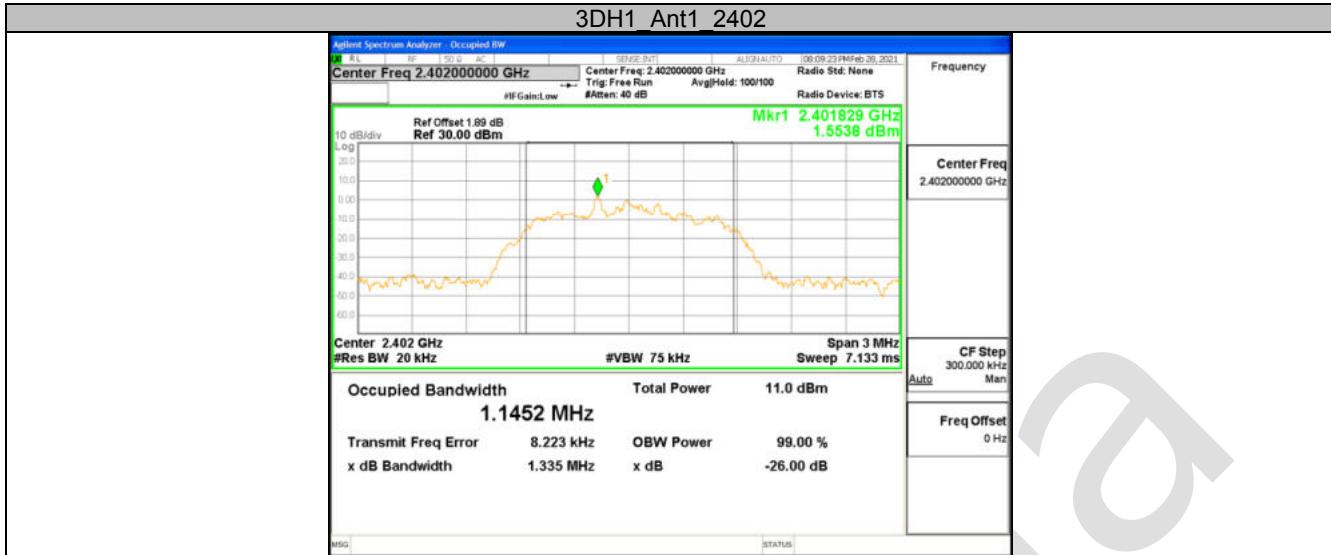
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.83846	2401.579	2402.417	---	PASS
		2441	0.84471	2440.572	2441.416	---	PASS
		2480	0.82255	2479.593	2480.416	---	PASS
2DH1	Ant1	2402	1.1727	2401.416	2402.589	---	PASS
		2441	1.1735	2440.411	2441.585	---	PASS
		2480	1.1960	2479.410	2480.606	---	PASS
3DH1	Ant1	2402	1.1452	2401.436	2402.581	---	PASS
		2441	1.1444	2440.436	2441.580	---	PASS
		2480	1.1418	2479.436	2480.578	---	PASS

Test Graphs





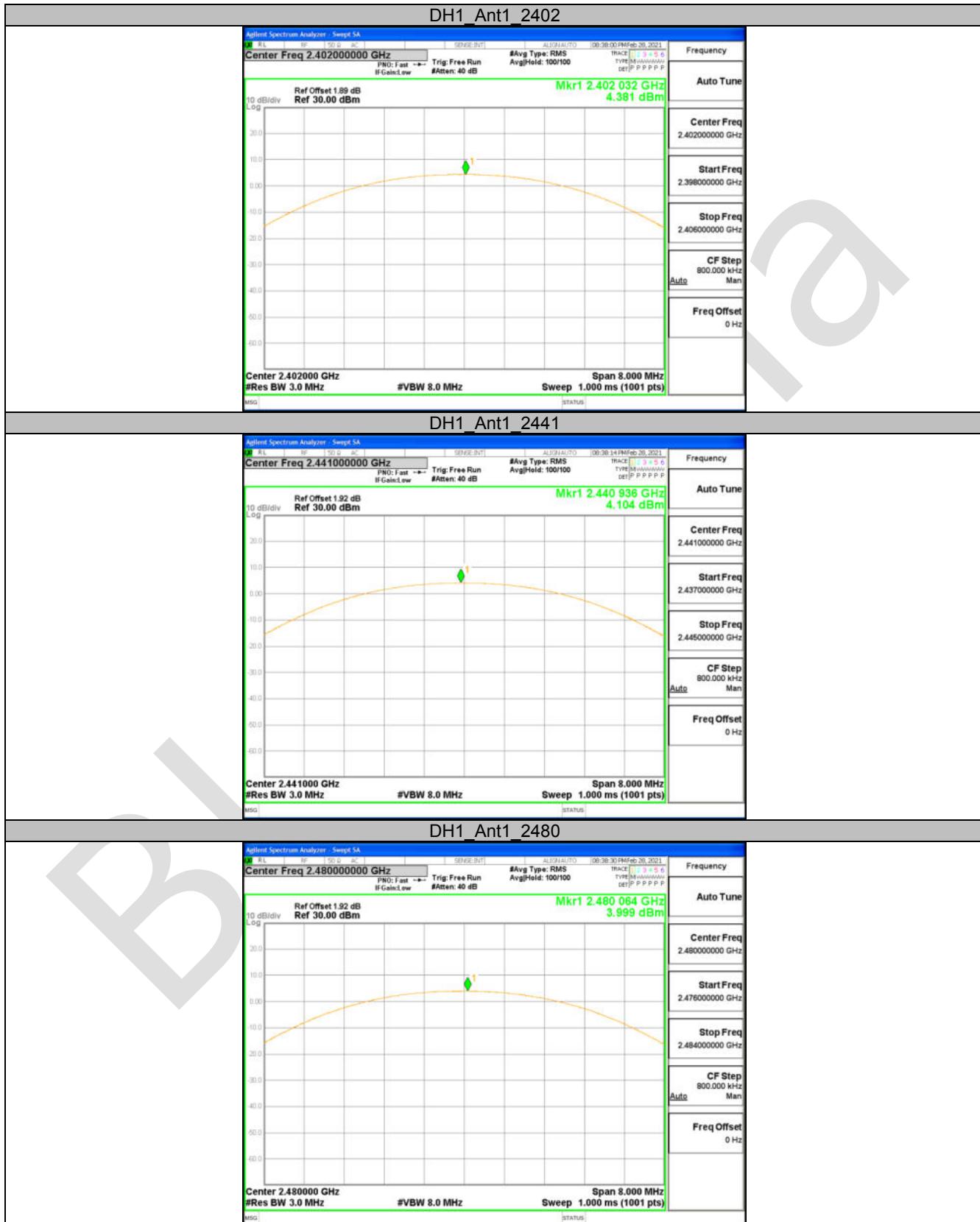


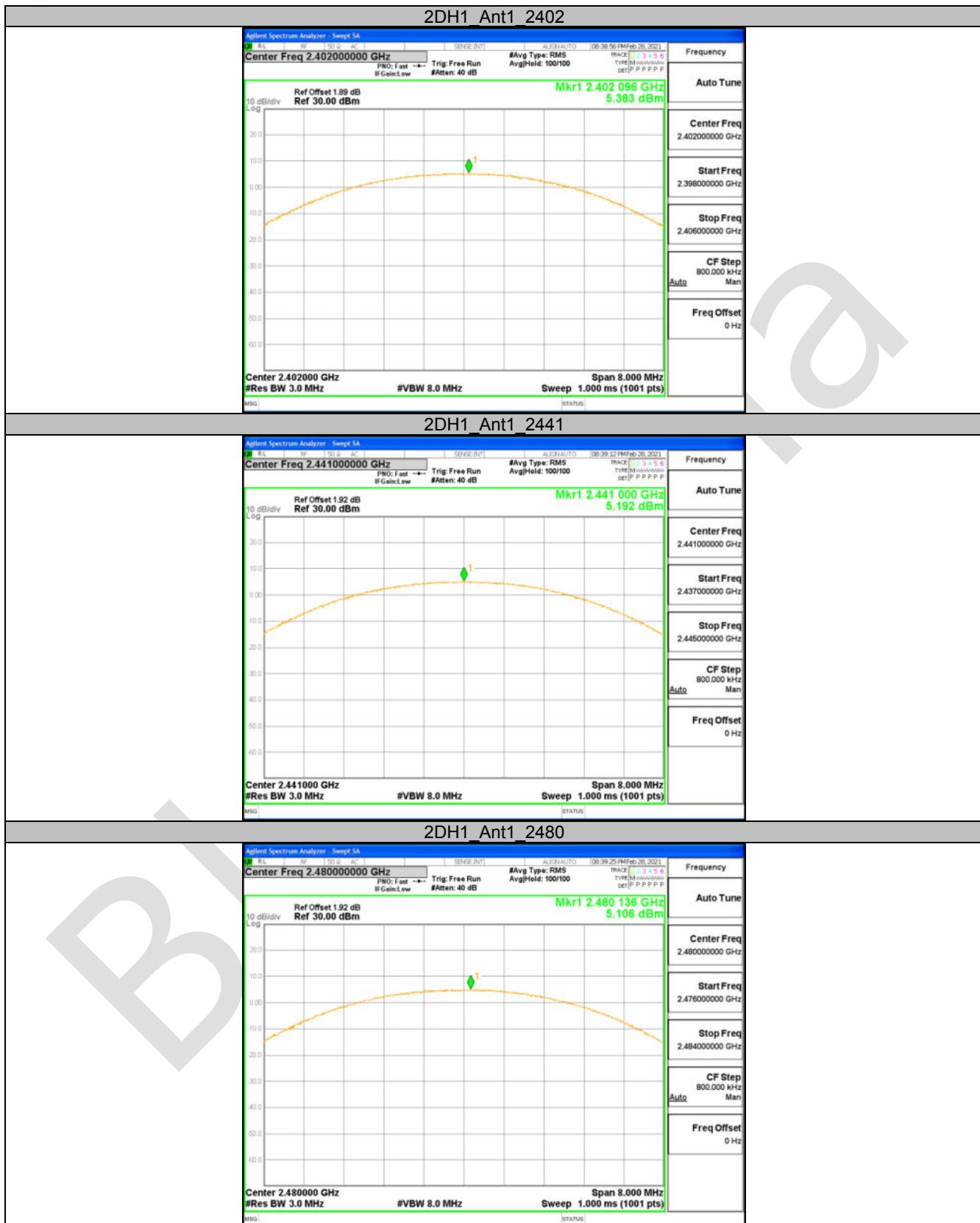
11.3 APPENDIX : MAXIMUM CONDUCTED OUTPUT POWER

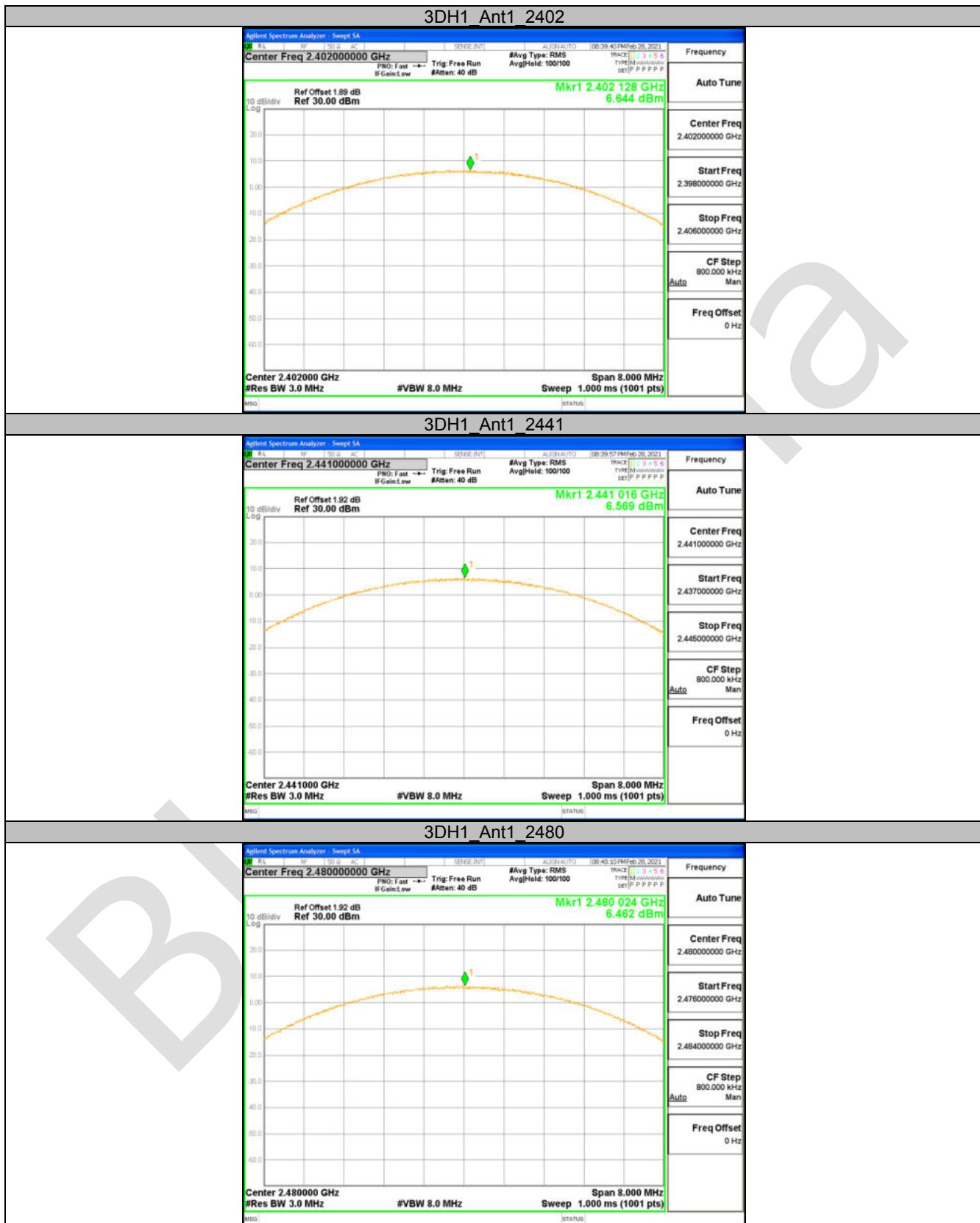
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	4.38	<=20.97	PASS
		2441	4.1	<=20.97	PASS
		2480	4	<=20.97	PASS
2DH1	Ant1	2402	5.38	<=20.97	PASS
		2441	5.19	<=20.97	PASS
		2480	5.11	<=20.97	PASS
3DH1	Ant1	2402	6.64	<=20.97	PASS
		2441	6.57	<=20.97	PASS
		2480	6.46	<=20.97	PASS

Test Graphs







11.4 APPENDIX : CARRIER FREQUENCY SEPARATION

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	0.99	>=0.730	PASS
2DH1	Ant1	Hop	1	>=0.924	PASS
3DH1	Ant1	Hop	0.99	>=0.900	PASS

Test Graphs



11.5 APPENDIX : TIME OF OCCUPANCY

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	330	0.126	<=0.4	PASS
DH3	Ant1	Hop	1.64	180	0.295	<=0.4	PASS
DH5	Ant1	Hop	2.88	80	0.231	<=0.4	PASS