

TEST REPORT

Applicant Name : Vanstone Electronic (Beijing) Co., Ltd.
Address : 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195
Report Number : SZNN210609-55441E-RF-00B
FCC ID: OWLA75

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Android POS Terminal
Model No.: A75
Multiple Model(s) No.: N/A
Trade Mark: Aisino
Date Received: 2021/06/09
Date of Test: 2021/10/10~2021/11/19
Report Date: 2021/11/22

Test Result:	Pass*
--------------	-------

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:



Fan Yang
EMC Engineer

Approved By:



Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk ★.

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk **. Customer model name, addresses, names, trademarks etc. are not considered data.

This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Shenzhen Accurate Technology Co., Ltd.

1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

Tel: +86 755-26503290 Fax: +86 755-26503396 Web: www.atc-lab.com

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
TEST METHODOLOGY	4
MEASUREMENT UNCERTAINTY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EQUIPMENT MODIFICATIONS	7
EUT EXERCISE SOFTWARE	7
DUTY CYCLE	7
SUPPORT EQUIPMENT LIST AND DETAILS	7
EXTERNAL I/O CABLE.....	7
BLOCK DIAGRAM OF TEST SETUP	8
SUMMARY OF TEST RESULTS	9
TEST EQUIPMENT LIST	10
FCC §15.247 (I), §1.1307 (B) (1) & §2.1093 – RF EXPOSURE	12
APPLICABLE STANDARD	12
FCC §15.203 - ANTENNA REQUIREMENT.....	13
APPLICABLE STANDARD	13
ANTENNA CONNECTOR CONSTRUCTION	13
FCC §15.207 (A) – AC LINE CONDUCTED EMISSIONS	14
APPLICABLE STANDARD	14
EUT SETUP	14
EMI TEST RECEIVER SETUP.....	14
TEST PROCEDURE	14
TRANSD FACTOR & MARGIN CALCULATION	15
TEST DATA	15
FCC §15.209, §15.205 & §15.247(D) - SPURIOUS EMISSIONS	18
APPLICABLE STANDARD	18
EUT SETUP	18
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	19
TEST PROCEDURE	19
FACTOR & MARGIN CALCULATION	19
TEST DATA	19
FCC §15.247(A) (2) – 6 DB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH	28
APPLICABLE STANDARD	28
TEST PROCEDURE	28
TEST DATA	28
FCC §15.247(B) (3) - MAXIMUM CONDUCTED OUTPUT POWER	29
APPLICABLE STANDARD	29
TEST PROCEDURE	29
TEST DATA	29

FCC §15.247(D) – 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	30
APPLICABLE STANDARD	30
TEST PROCEDURE	30
TEST DATA	30
FCC §15.247(E) - POWER SPECTRAL DENSITY.....	31
APPLICABLE STANDARD	31
TEST PROCEDURE	31
TEST DATA	31
APPENDIX WI-FI.....	32
APPENDIX A: DTS BANDWIDTH	32
APPENDIX B: OCCUPIED CHANNEL BANDWIDTH	38
APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER	44
APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY	45
APPENDIX E:BAND EDGE MEASUREMENTS	51
APPENDIX F: DUTY CYCLE	54
APPENDIX BLE.....	57
APPENDIX A: DTS BANDWIDTH	57
APPENDIX B: OCCUPIED CHANNEL BANDWIDTH	59
APPENDIX C: MAXIMUM CONDUCTED PEAK OUTPUT POWER	61
APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY	62
APPENDIX E:BAND EDGE MEASUREMENTS	64
APPENDIX F: DUTY CYCLE	65

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	BLE: 2402-2480MHz Wi-Fi: 2412-2472MHz
Maximum Conducted Peak Output Power	BLE: -0.78dBm Wi-Fi: 14.32dBm(802.11b), 16.44dBm(802.11g) 13.51dBm(802.11n20), 13.61dBm(802.11n40)
Modulation Technique	BLE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification*	1.0dBi (provided by the applicant)
Voltage Range	DC3.6V from battery or DC 5V from adapter
Sample serial number	SZNN210609-55441E-RF-S1 for RE&CE SZNN210609-55441E-RF-S2 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: TPA-46050200UU Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2000mA

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter	Uncertainty	
Occupied Channel Bandwidth	5%	
RF Frequency	0.082×10^{-7}	
RF output power, conducted	0.73dB	
Unwanted Emission, conducted	1.6dB	
AC Power Lines Conducted Emissions	2.72dB	
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature	1°C	
Humidity	6%	
Supply voltages	0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 mode, total 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

802.11b and 802.11n-HT20 mode was tested with Channel 1, 7 and 13.

802.11g mode was tested with Channel 1, 7, 12 and 13.

802.11n-HT40 mode was tested with Channel 3, 7 and 11.

For BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

“QRCT3.0**” software was used to test, which provided by manufacturer and power level as below:

Mode	Data rate	Power Level*		
		Low	Middle	High
802.11b	1Mbps	13	13	13
802.11g	6Mbps	13	13	13(2467MHz) 9(2472MHz)
802.11n-HT20	MCS0	11	11	9
802.11n-HT40	MCS0	11	11	11
BLE	1Mbps	Default		

Duty cycle

Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

Support Equipment List and Details

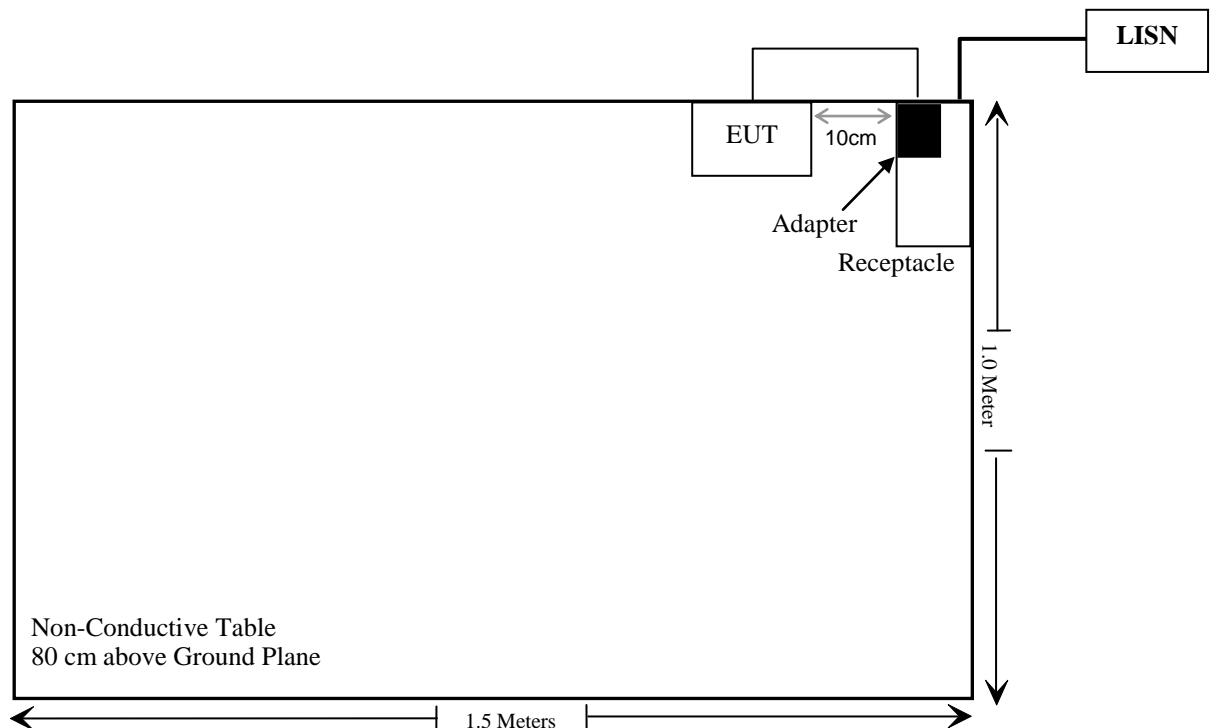
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

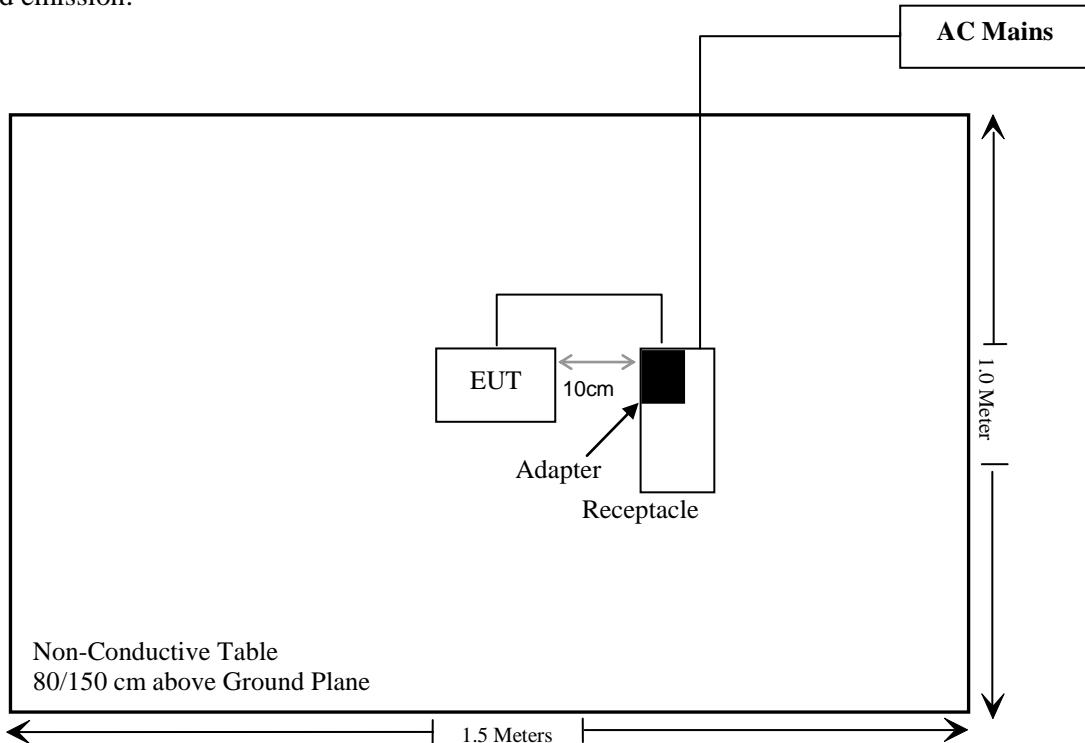
Cable Description	Length (m)	From Port	To
Unshielded detachable DC cable	1.0	adapter	EUT

Block Diagram of Test Setup

For conducted emission:



For radiated emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1) & §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	Test Receiver	ESPI3	100396	2020/12/24	2021/12/23
R & S	L.I.S.N.	ENV216	101314	2020/12/25	2021/12/24
Anritsu Corp	50Ω Coaxial Switch	MP59B	6200506474	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-2m	No.2	2020/12/25	2021/12/24
Conducted Emission Test Software: e3 19821b (V9)					
Radiated Emissions Test					
Rohde & Schwarz	Test Receiver	ESR	101817	2020/12/24	2021/12/23
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2020/12/24	2021/12/23
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2021/07/08	2022/07/07
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2020/11/28	2021/11/27
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/04	2023/01/03
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Unknown	RF Coaxial Cable	N-5m	No.3	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-5m	No.4	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.5	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.6	2020/12/25	2021/12/24
Radiated Emission Test Software: e3 19821b (V9)					

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSV40	101495	2020/12/24	2021/12/23
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/07/06	2022/07/05

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247 (i), §1.1307 (b) (1) & §2.1093 – RF EXPOSURE**Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]^{1/2}$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result**For worst case:**

Mode	Frequency (MHz)	Max tune-up conducted power (dBm)	Max tune-up conducted power (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BLE	2402-2480	0	1	5	0.3	3.0	Yes

Result: No SAR test is required

For Wi-Fi mode, please refer to SAR report: CR21110041-20A,CR21110041-20B

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, 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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one internal Antenna arrangement, which was permanently attached and the antenna gain is 1.0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

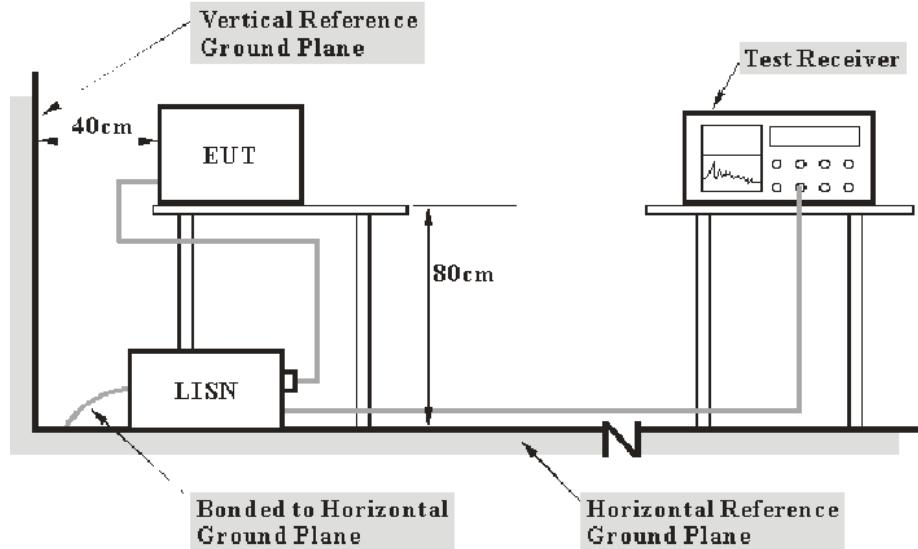
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207

EUT Setup



- Note:
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Transd Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss. The basic equation is as follows:

$$\text{Transd Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a over limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Over Limit} = \text{level} - \text{Limit}$$

$$\text{Level} = \text{reading level} + \text{Transd Factor}$$

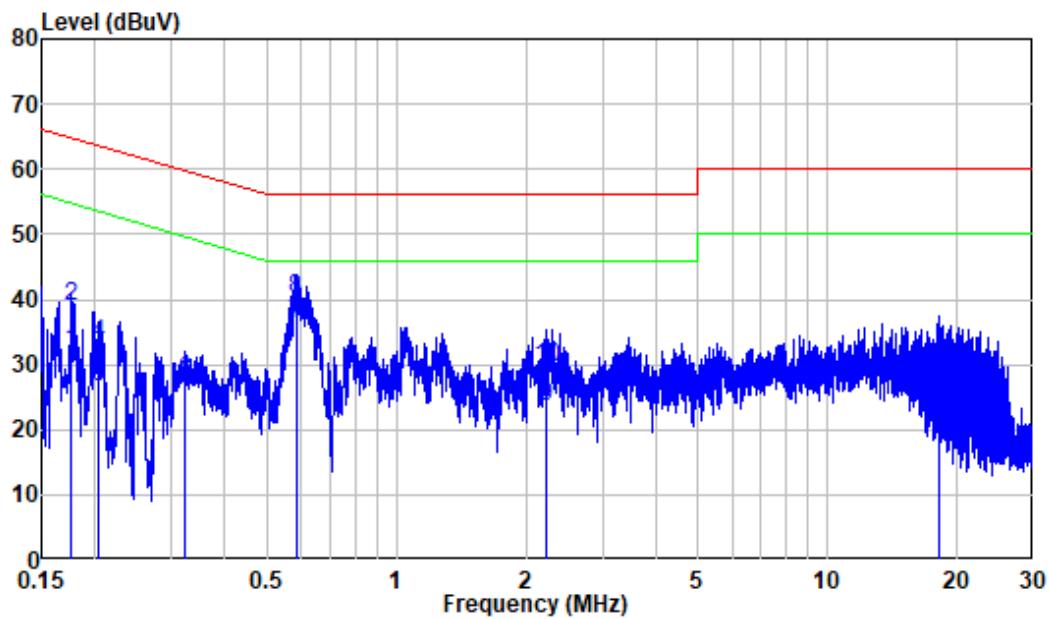
Test Data

Environmental Conditions

Temperature:	25°C
Relative Humidity:	64 %
ATM Pressure:	101.0 kPa

The testing was performed by Bin Deng on 2021-11-19.

EUT operation mode: Transmitting (the worst case is 802.11g mode, Middle channel)

AC 120V/60 Hz, Line

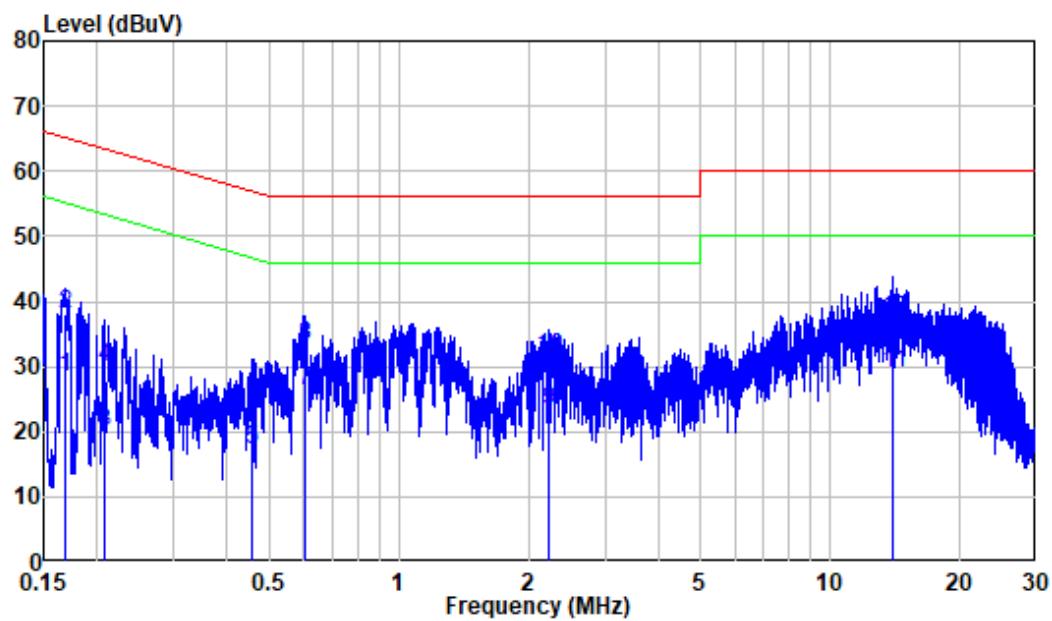
Site : Shielding Room

Condition: Line

Mode : 2.4G WIFI

Model : A75

Freq	Factor	Read		Limit Line	Over Limit	Remark
		MHz	dB	dBuV	dBuV	
1	0.176	9.84	22.12	31.96	54.67	-22.71 Average
2	0.176	9.84	29.01	38.85	64.67	-25.82 QP
3	0.204	9.80	16.75	26.55	53.44	-26.89 Average
4	0.204	9.80	23.50	33.30	63.44	-30.14 QP
5	0.322	9.80	17.03	26.83	49.65	-22.82 Average
6	0.322	9.80	17.81	27.61	59.65	-32.04 QP
7	0.584	9.81	26.44	36.25	46.00	-9.75 Average
8	0.584	9.81	30.33	40.14	56.00	-15.86 QP
9	2.222	9.92	13.75	23.67	46.00	-22.33 Average
10	2.222	9.92	19.78	29.70	56.00	-26.30 QP
11	18.207	10.15	9.64	19.79	50.00	-30.21 Average
12	18.207	10.15	19.30	29.45	60.00	-30.55 QP

AC 120V/60 Hz, Neutral

Site : Shielding Room
Condition: Neutral
Mode : 2.4G WIFI
Model : A75

	Freq	Factor	Read Level	Limit Level	Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.168	9.94	18.43	28.37	55.08	-26.71	Average
2	0.168	9.94	28.18	38.12	65.08	-26.96	QP
3	0.207	10.00	9.97	19.97	53.33	-33.36	Average
4	0.207	10.00	19.80	29.80	63.33	-33.53	QP
5	0.458	9.91	7.39	17.30	46.72	-29.42	Average
6	0.458	9.91	14.99	24.90	56.72	-31.82	QP
7	0.603	9.91	16.29	26.20	46.00	-19.80	Average
8	0.603	9.91	23.24	33.15	56.00	-22.85	QP
9	2.226	9.94	13.37	23.31	46.00	-22.69	Average
10	2.226	9.94	21.33	31.27	56.00	-24.73	QP
11	13.989	10.06	18.90	28.96	50.00	-21.04	Average
12	13.989	10.06	27.10	37.16	60.00	-22.84	QP

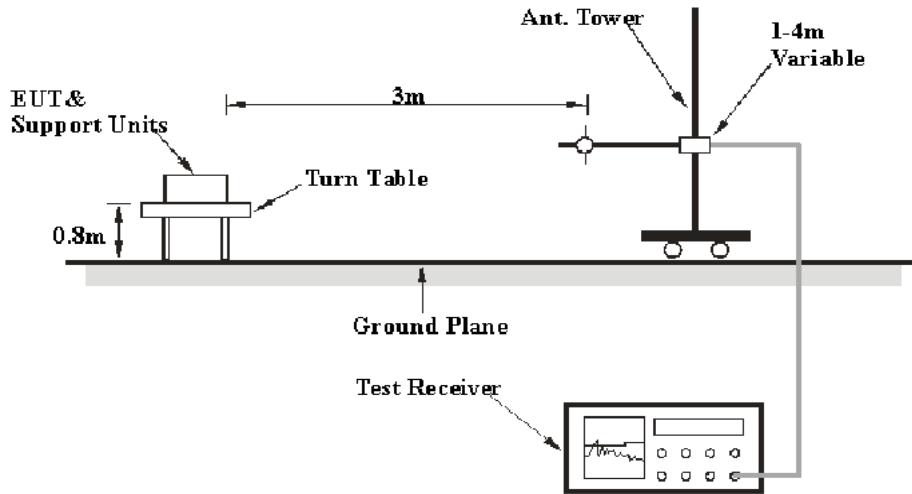
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

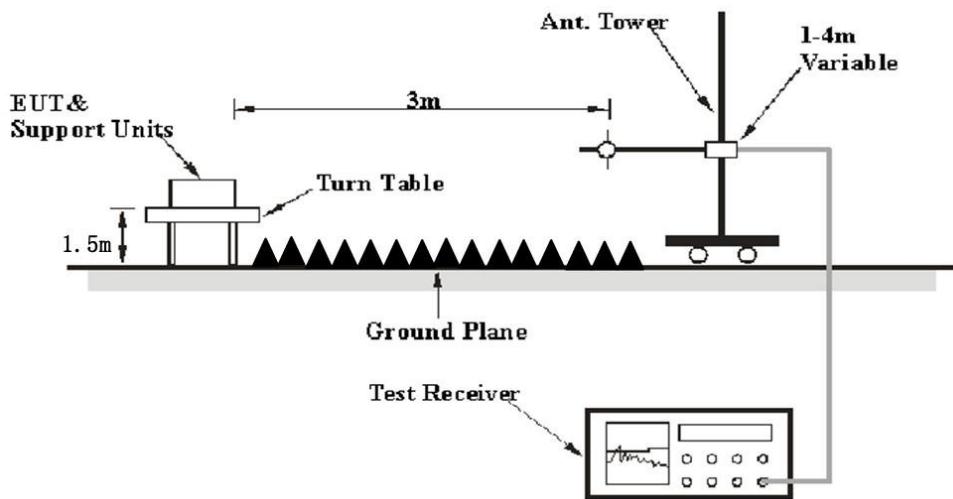
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz ^{Note 1}	/	Average
	1MHz	>1/T ^{Note 2}	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Over Limit or Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin/over limit of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Result}/\text{Corrected Amplitude-Limit} \\ \text{Result}/\text{Corrected Amplitude} &= \text{Reading} + \text{Factor}\end{aligned}$$

Test Data

Environmental Conditions

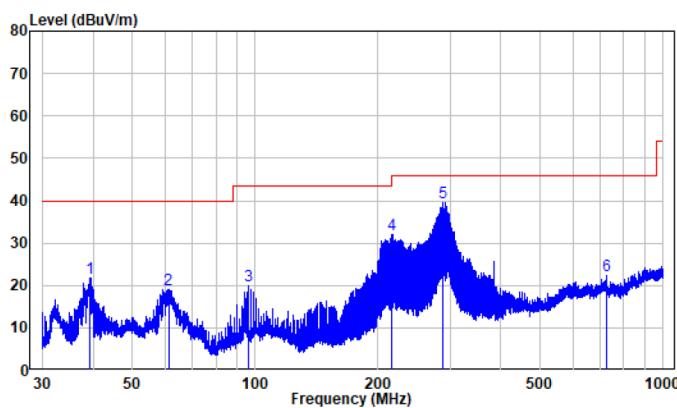
Temperature:	20~25 °C
Relative Humidity:	45~54%
ATM Pressure:	101.0 kPa

The testing was performed by Bin Deng on 2021-11-18 for below 1GHz and 2021-11-17 for above 1GHz.

EUT operation mode: Transmitting(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded)

30MHz-1GHz: (the worst case is 802.11b mode, Middle channel)

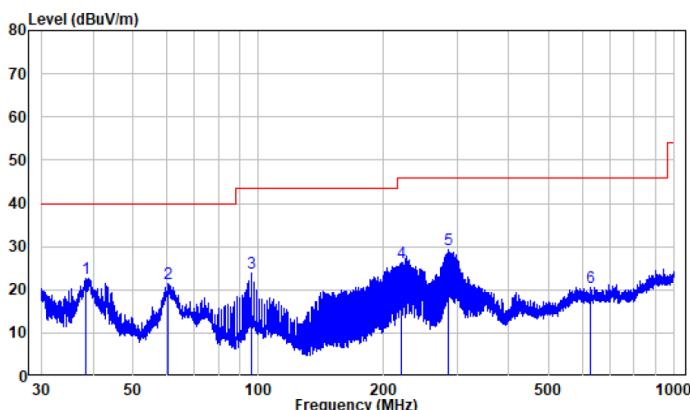
Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : SZNN210609-55441E-RF
 Mode : TX 11B

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz		dB/m	dBuV	dBuV/m	dBuV/m	dB
1	39.26	-18.77	40.37	21.60	40.00	-18.40	Peak
2	61.24	-19.73	38.69	18.96	40.00	-21.04	Peak
3	95.89	-20.02	39.96	19.94	43.50	-23.56	Peak
4	216.50	-18.99	50.87	31.88	46.00	-14.12	Peak
5	287.61	-17.32	57.00	39.68	46.00	-6.32	Peak
6	724.58	-11.37	33.72	22.35	46.00	-23.65	Peak

Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : SZNN210609-55441E-RF
 Mode : TX 11B

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz		dB/m	dBuV	dBuV/m	dBuV/m	dB
1	38.36	-18.91	41.61	22.70	40.00	-17.30	Peak
2	60.65	-19.64	41.03	21.39	40.00	-18.61	Peak
3	96.14	-19.97	43.72	23.75	43.50	-19.75	Peak
4	220.81	-18.96	45.25	26.29	46.00	-19.71	Peak
5	286.23	-17.41	46.63	29.22	46.00	-16.78	Peak
6	627.00	-11.46	32.06	20.60	46.00	-25.40	Peak

1-25 GHz:**BLE:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
BLE 1M, Low Channel									
2310	71.46	PK	148	2.2	H	-10.68	60.78	74	-13.22
2310	58.72	Ave.	148	2.2	H	-10.68	48.04	54	-5.96
2310	69.04	PK	300	2.5	V	-10.68	58.36	74	-15.64
2310	56.47	Ave.	300	2.5	V	-10.68	45.79	54	-8.21
2390	70.48	PK	74	1.3	H	-10.34	60.14	74	-13.86
2390	58.81	Ave.	74	1.3	H	-10.34	48.47	54	-5.53
2390	68.22	PK	314	1.5	V	-10.34	57.88	74	-16.12
2390	56.45	Ave.	314	1.5	V	-10.34	46.11	54	-7.89
4804	54.29	PK	29	2	H	-4.65	49.64	74	-24.36
4804	51.50	PK	104	1.8	V	-4.65	46.85	74	-27.15
BLE 1M, Middle Channel									
4880	55.23	PK	173	1.6	H	-4.45	50.78	74	-23.22
4880	51.93	PK	132	1	V	-4.45	47.48	74	-26.52
BLE 1M, High Channel									
2483.5	70.74	PK	121	1.7	H	-10.04	60.7	74	-13.3
2483.5	57.87	Ave.	121	1.7	H	-10.04	47.83	54	-6.17
2483.5	68.41	PK	27	1.1	V	-10.04	58.37	74	-15.63
2483.5	55.69	Ave.	27	1.1	V	-10.04	45.65	54	-8.35
2500	71.07	PK	193	2.3	H	-10.04	61.03	74	-12.97
2500	58.41	Ave.	193	2.3	H	-10.04	48.37	54	-5.63
2500	68.95	PK	57	1.9	V	-10.04	58.91	74	-15.09
2500	55.08	Ave.	57	1.9	V	-10.04	45.04	54	-8.96
4960	55.25	PK	207	2.1	H	-4.29	50.96	74	-23.04
4960	51.75	PK	116	1.4	V	-4.29	47.46	74	-26.54

Wi-Fi:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11B, Low Channel									
2310	71.21	PK	63	1.7	H	-10.68	60.53	74	-13.47
2310	56.89	Ave.	63	1.7	H	-10.68	46.21	54	-7.79
2310	69.00	PK	9	1	V	-10.68	58.32	74	-15.68
2310	54.70	Ave.	9	1	V	-10.68	44.02	54	-9.98
2390	70.57	PK	306	2.4	H	-10.34	60.23	74	-13.77
2390	56.10	Ave.	306	2.4	H	-10.34	45.76	54	-8.24
2390	68.47	PK	125	2.1	V	-10.34	58.13	74	-15.87
2390	53.91	Ave.	125	2.1	V	-10.34	43.57	54	-10.43
4824	54.62	PK	151	1	H	-4.51	50.11	74	-23.89
4824	51.90	PK	51	1.2	V	-4.51	47.39	74	-26.61
802.11B, Middle Channel									
4884	55.63	PK	284	1.4	H	-4.45	51.18	74	-22.82
4884	53.1	PK	169	2.1	V	-4.45	48.65	74	-25.35
802.11B, High Channel									
2483.5	70.37	PK	80	1.2	H	-10.04	60.33	74	-13.67
2483.5	56.38	Ave.	80	1.2	H	-10.04	46.34	54	-7.66
2483.5	68.19	PK	343	2.3	V	-10.04	58.15	74	-15.85
2483.5	54.26	Ave.	343	2.3	V	-10.04	44.22	54	-9.78
2500	72.60	PK	282	1.7	H	-10.04	62.56	74	-11.44
2500	60.71	Ave.	282	1.7	H	-10.04	50.67	54	-3.33
2500	70.51	PK	58	1.8	V	-10.04	60.47	74	-13.53
2500	58.92	Ave.	58	1.8	V	-10.04	48.88	54	-5.12
4944	53.70	PK	197	1.9	H	-4.29	49.41	74	-24.59
4944	50.58	PK	147	1.4	V	-4.29	46.29	74	-27.71

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11G, Low Channel									
2310	71.18	PK	44	2	H	-10.68	60.50	74	-13.50
2310	58.03	Ave.	44	2	H	-10.68	47.35	54	-6.65
2310	69.00	PK	314	2.4	V	-10.68	58.32	74	-15.68
2310	56.22	Ave.	314	2.4	V	-10.68	45.54	54	-8.46
2390	70.59	PK	218	2.5	H	-10.34	60.25	74	-13.75
2390	57.42	Ave.	218	2.5	H	-10.34	47.08	54	-6.92
2390	68.48	PK	55	1.2	V	-10.34	58.14	74	-15.86
2390	55.18	Ave.	55	1.2	V	-10.34	44.84	54	-9.16
4824	54.28	PK	120	2.1	H	-4.51	49.77	74	-24.23
4824	51.68	PK	169	1.1	V	-4.51	47.17	74	-26.83
802.11G, Middle Channel									
4884	54.76	PK	202	1.9	H	-4.45	50.31	74	-23.69
4884	52.55	PK	352	1.8	V	-4.45	48.1	74	-25.9
802.11G, High Channel (2467MHz)									
2483.5	68.93	PK	125	1.3	H	-10.04	58.89	74	-15.11
2483.5	55.45	Ave.	125	1.3	H	-10.04	45.41	54	-8.59
2483.5	66.75	PK	136	1.5	V	-10.04	56.71	74	-17.29
2483.5	53.20	Ave.	136	1.5	V	-10.04	43.16	54	-10.84
2500	80.58	PK	122	1.5	H	-10.04	70.54	74	-3.46
2500	60.89	Ave.	122	1.5	H	-10.04	50.85	54	-3.15
2500	79.12	PK	53	2.5	V	-10.04	69.08	74	-4.92
2500	58.49	Ave.	53	2.5	V	-10.04	48.45	54	-5.55
4934	53.90	PK	339	1.8	H	-4.29	49.61	74	-24.39
4934	51.00	PK	245	2.3	V	-4.29	46.71	74	-27.29
802.11G, High Channel (2472MHz)									
2483.5	70.42	PK	54	1.5	H	-10.04	60.38	74	-13.62
2483.5	56.94	Ave.	54	1.5	H	-10.04	46.9	54	-7.1
2483.5	68.24	PK	202	2.1	V	-10.04	58.2	74	-15.8
2483.5	54.69	Ave.	202	2.1	V	-10.04	44.65	54	-9.35
2500	82.21	PK	171	1.3	H	-10.04	72.17	74	-1.83
2500	62.42	Ave.	171	1.3	H	-10.04	52.38	54	-1.62
2500	80.61	PK	288	1	V	-10.04	70.57	74	-3.43
2500	59.98	Ave.	288	1	V	-10.04	49.94	54	-4.06
4944	54.39	PK	70	1.7	H	-4.29	50.1	74	-23.9
4944	51.49	PK	347	1.4	V	-4.29	47.2	74	-26.8

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11N20, Low Channel									
2310	73.07	PK	178	2.4	H	-10.68	62.39	74	-11.61
2310	58.12	Ave.	178	2.4	H	-10.68	47.44	54	-6.56
2310	70.85	PK	308	1.5	V	-10.68	60.17	74	-13.83
2310	55.97	Ave.	308	1.5	V	-10.68	45.29	54	-8.71
2390	71.85	PK	60	2.5	H	-10.34	61.51	74	-12.49
2390	57.90	Ave.	60	2.5	H	-10.34	47.56	54	-6.44
2390	69.65	PK	167	1.8	V	-10.34	59.31	74	-14.69
2390	55.70	Ave.	167	1.8	V	-10.34	45.36	54	-8.64
4824	53.82	PK	207	1.9	H	-4.51	49.31	74	-24.69
4824	50.62	PK	23	1.1	V	-4.51	46.11	74	-27.89
802.11N20, Middle Channel									
4884	54.79	PK	3	1.8	H	-4.45	50.34	74	-23.66
4884	51.8	PK	225	2.1	V	-4.45	47.35	74	-26.65
802.11N20, High Channel									
2483.5	70.31	PK	122	1.9	H	-10.04	60.27	74	-13.73
2483.5	57.15	Ave.	122	1.9	H	-10.04	47.11	54	-6.89
2483.5	68.16	PK	41	2.4	V	-10.04	58.12	74	-15.88
2483.5	55.07	Ave.	41	2.4	V	-10.04	45.03	54	-8.97
2500	81.94	PK	250	2.5	H	-10.04	71.9	74	-2.1
2500	62.77	Ave.	250	2.5	H	-10.04	52.73	54	-1.27
2500	79.36	PK	23	2.5	V	-10.04	69.32	74	-4.68
2500	60.91	Ave.	23	2.5	V	-10.04	50.87	54	-3.13
4944	54.24	PK	156	2.3	H	-4.29	49.95	74	-24.05
4944	50.78	PK	300	1.6	V	-4.29	46.49	74	-27.51

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H/V)				
802.11N40, Low Channel									
2310	72.99	PK	301	2	H	-10.68	62.31	74	-11.69
2310	59.86	Ave.	301	2	H	-10.68	49.18	54	-4.82
2310	70.73	PK	70	1.5	V	-10.68	60.05	74	-13.95
2310	57.79	Ave.	70	1.5	V	-10.68	47.11	54	-6.89
2390	71.06	PK	300	1.3	H	-10.34	60.72	74	-13.28
2390	58.44	Ave.	300	1.3	H	-10.34	48.10	54	-5.90
2390	70.88	PK	127	1.2	V	-10.34	60.54	74	-13.46
2390	56.31	Ave.	127	1.2	V	-10.34	45.97	54	-8.03
4844	53.55	PK	42	1	H	-4.36	49.19	74	-24.81
4844	50.61	PK	139	2.1	V	-4.36	46.25	74	-27.75
802.11N40, Middle Channel									
4884	54.77	PK	14	1.1	H	-4.45	50.32	74	-23.68
4884	51.92	PK	97	1.4	V	-4.45	47.47	74	-26.53
802.11N40, High Channel									
2483.5	70.42	PK	297	1.3	H	-10.04	60.38	74	-13.62
2483.5	57.70	Ave.	297	1.3	H	-10.04	47.66	54	-6.34
2483.5	68.28	PK	154	1.4	V	-10.04	58.24	74	-15.76
2483.5	55.51	Ave.	154	1.4	V	-10.04	45.47	54	-8.53
2500	82.92	PK	212	1.4	H	-10.04	72.88	74	-1.12
2500	62.98	Ave.	212	1.4	H	-10.04	52.94	54	-1.06
2500	80.48	PK	195	1.6	V	-10.04	70.44	74	-3.56
2500	60.92	Ave.	195	1.6	V	-10.04	50.88	54	-3.12
4924	54.79	PK	142	2.3	H	-4.41	50.38	74	-23.62
4924	51.78	PK	222	1.9	V	-4.41	47.37	74	-26.63

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

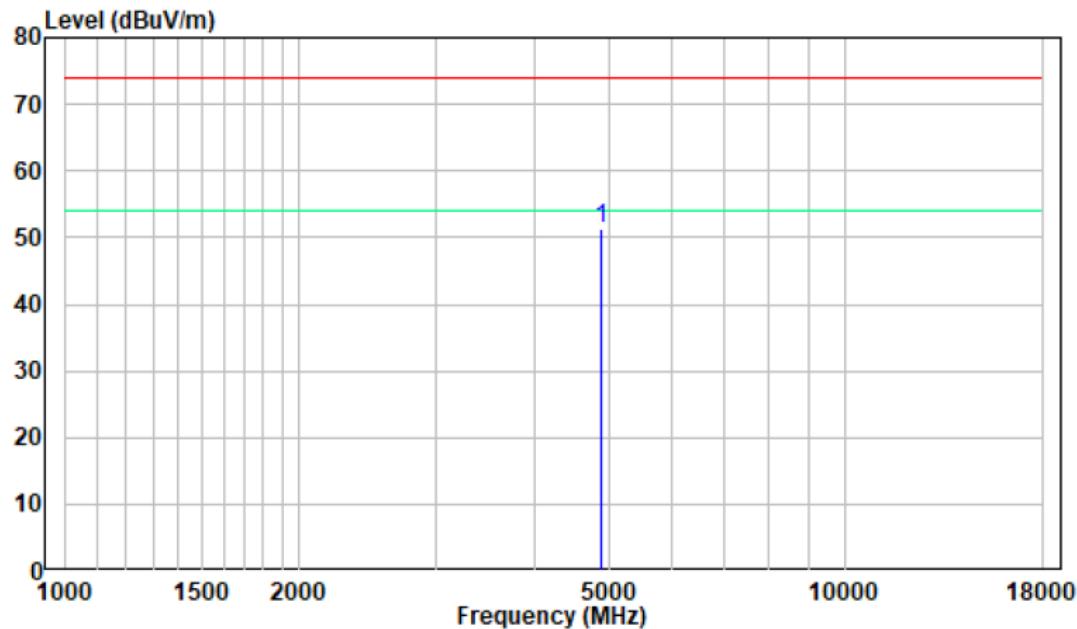
Margin =Corrected. Amplitude - Limit

The other spurious emission which is 20dB to the limit was not recorded.

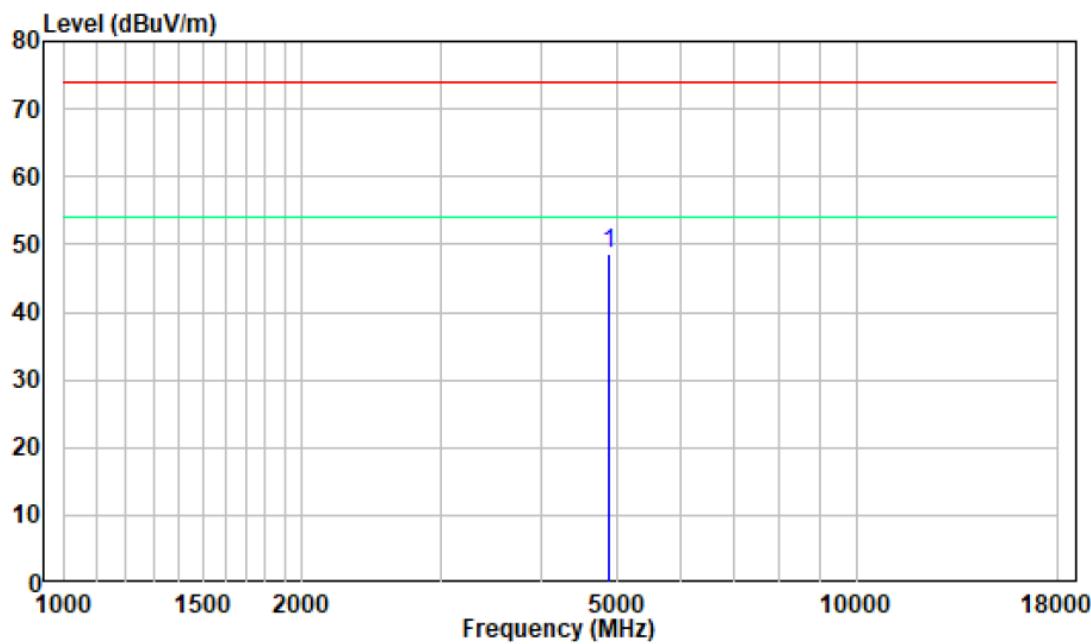
The test result of peak was less than the limit of average, so just peak values were recorded.

1-18 GHz:

**Pre-scan for Peak
802.11 b Middle Channel
Horizontal**

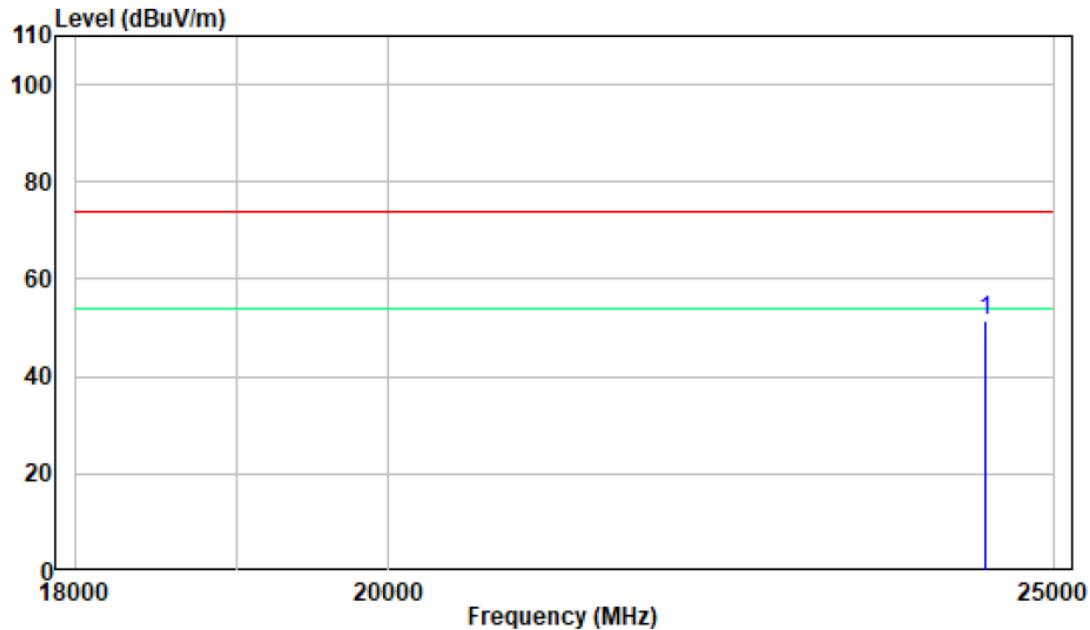


Vertical

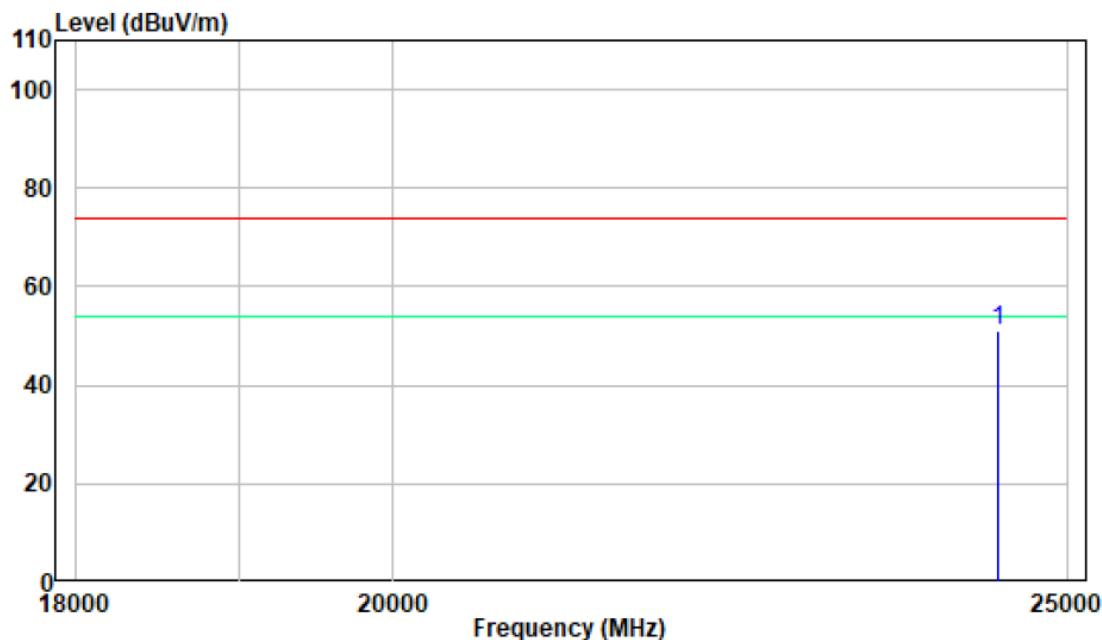


18 -25GHz:

Pre-scan for Peak
802.11 b Middle Channel
Horizontal



Vertical



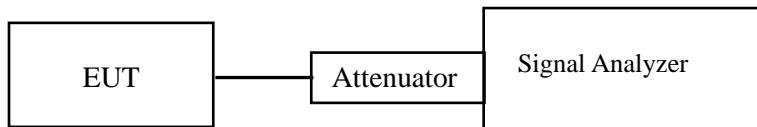
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	61 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-10-10 for BLE and 2021-11-19 for Wi-Fi.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

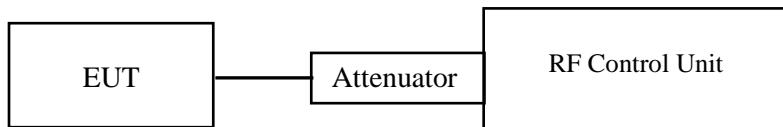
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-10-10 for BLE and 2021-11-19 for Wi-Fi.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

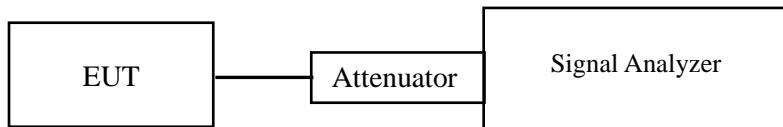
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

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)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-10-10 for BLE and 2021-11-19 for Wi-Fi.

EUT operation mode: Transmitting

Test Result: Compliant.

Conducted Band Edge Result:

Please refer to the Appendix Wi-Fi and Appendix BLE.

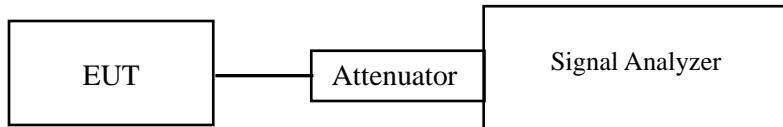
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-10-10 for BLE and 2021-11-19 for Wi-Fi.

EUT operation mode: Transmitting

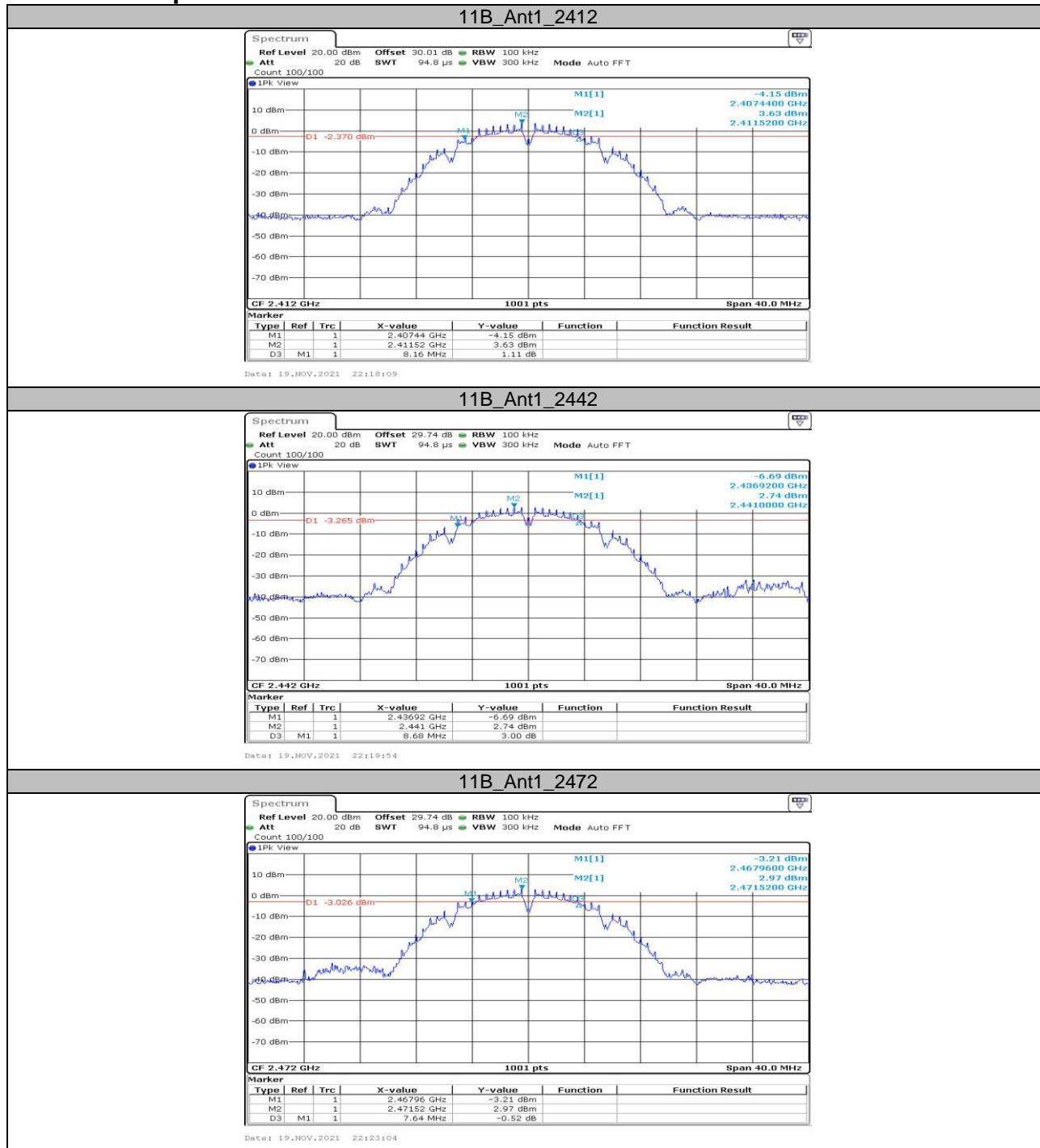
Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

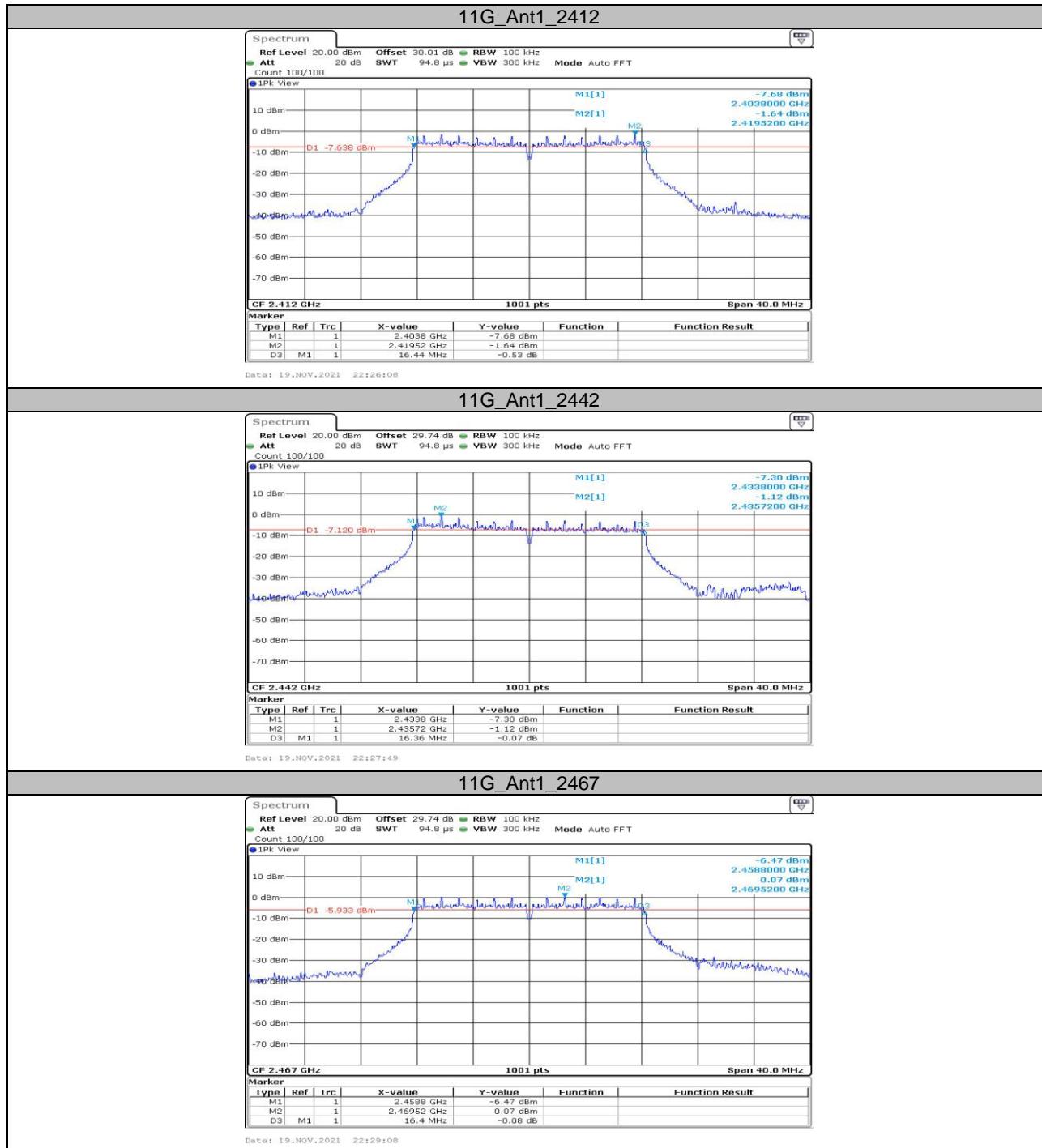
APPENDIX Wi-Fi

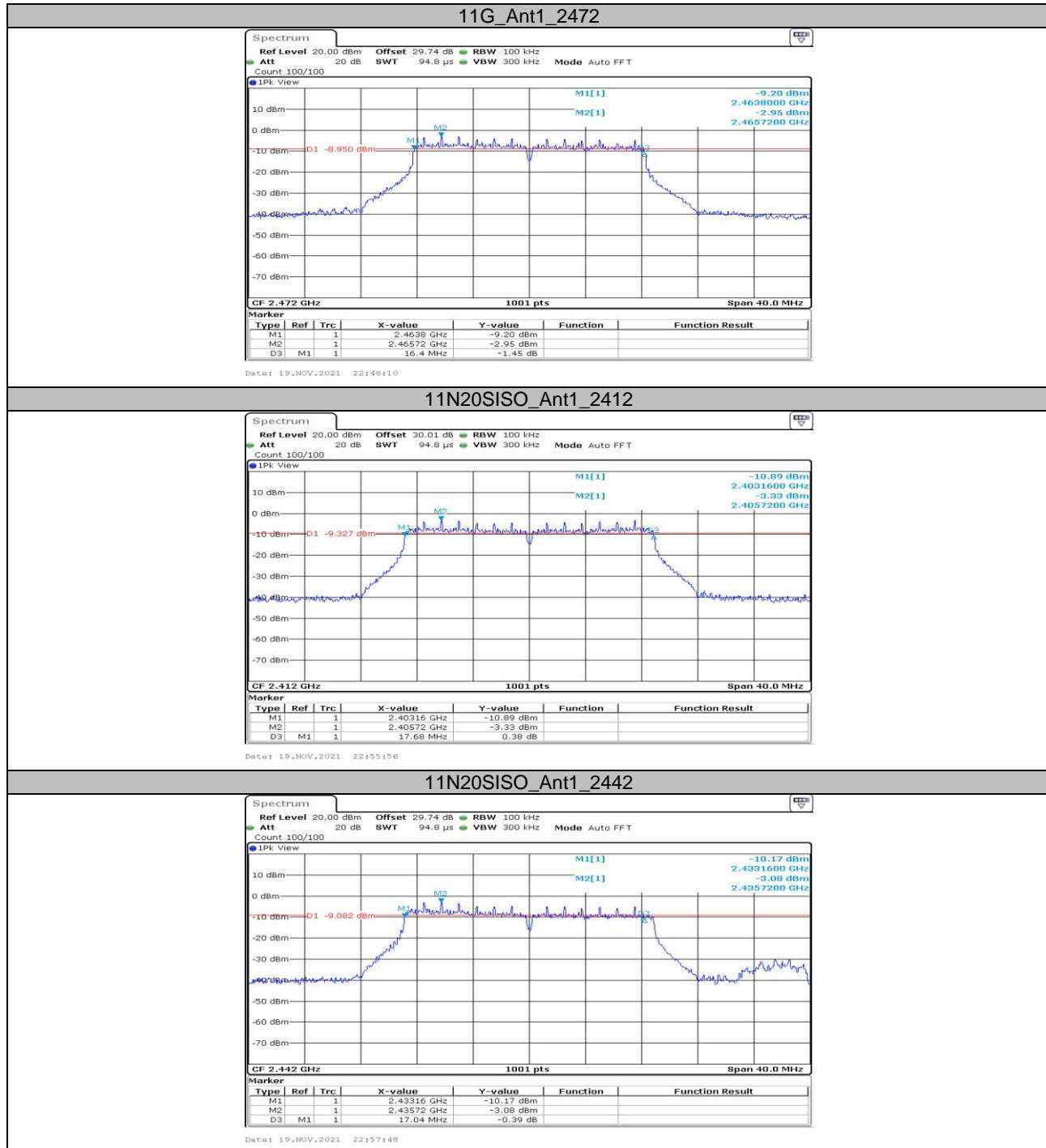
Appendix A: DTS Bandwidth Test Result

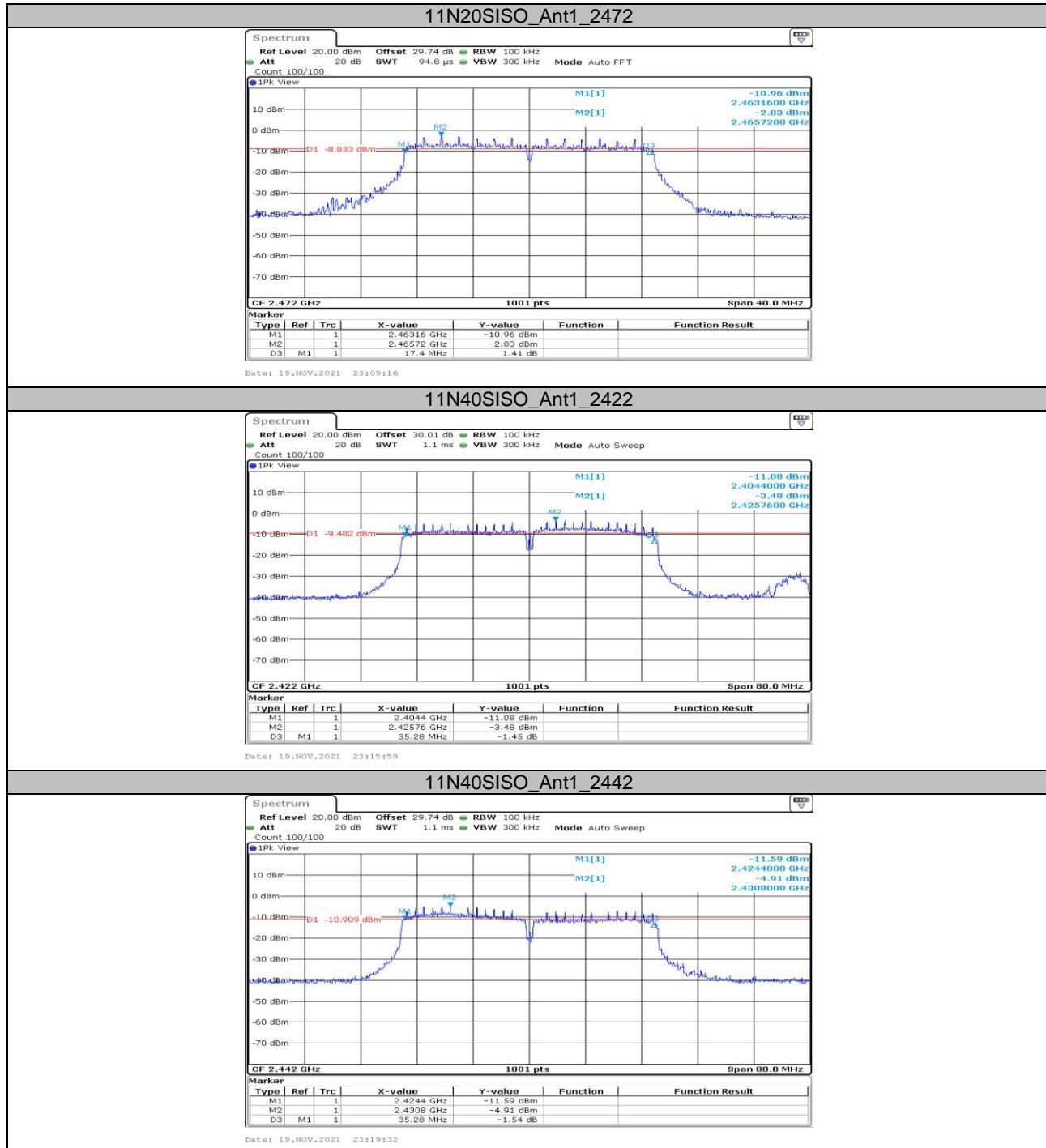
Test Mode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.160	0.5	PASS
		2442	8.680	0.5	PASS
		2472	7.640	0.5	PASS
11G	Ant1	2412	16.440	0.5	PASS
		2442	16.360	0.5	PASS
		2467	16.400	0.5	PASS
		2472	16.400	0.5	PASS
11N20SISO	Ant1	2412	17.680	0.5	PASS
		2442	17.040	0.5	PASS
		2472	17.400	0.5	PASS
11N40SISO	Ant1	2422	35.280	0.5	PASS
		2442	35.280	0.5	PASS
		2462	35.280	0.5	PASS

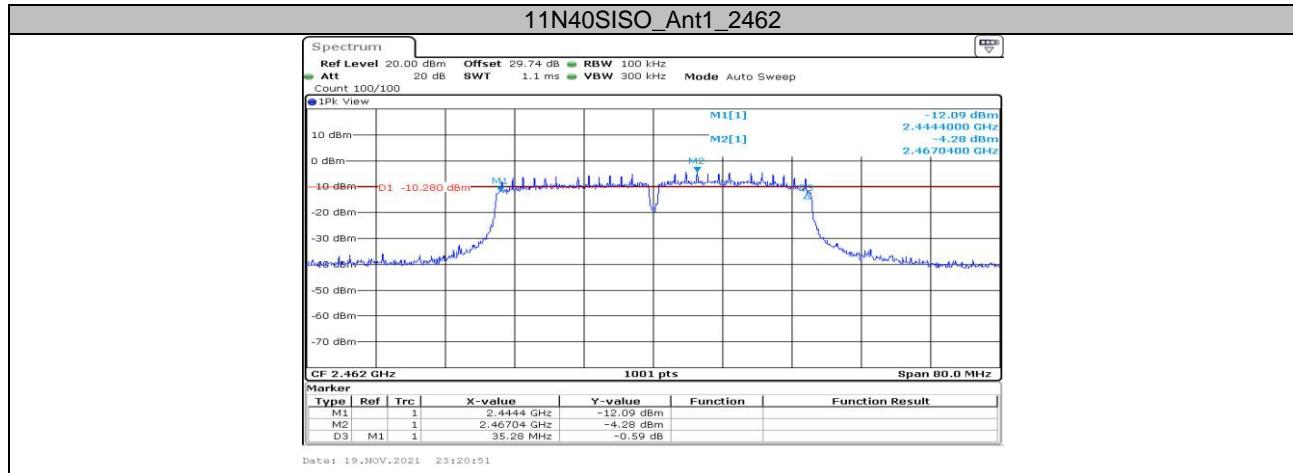
Test Graphs









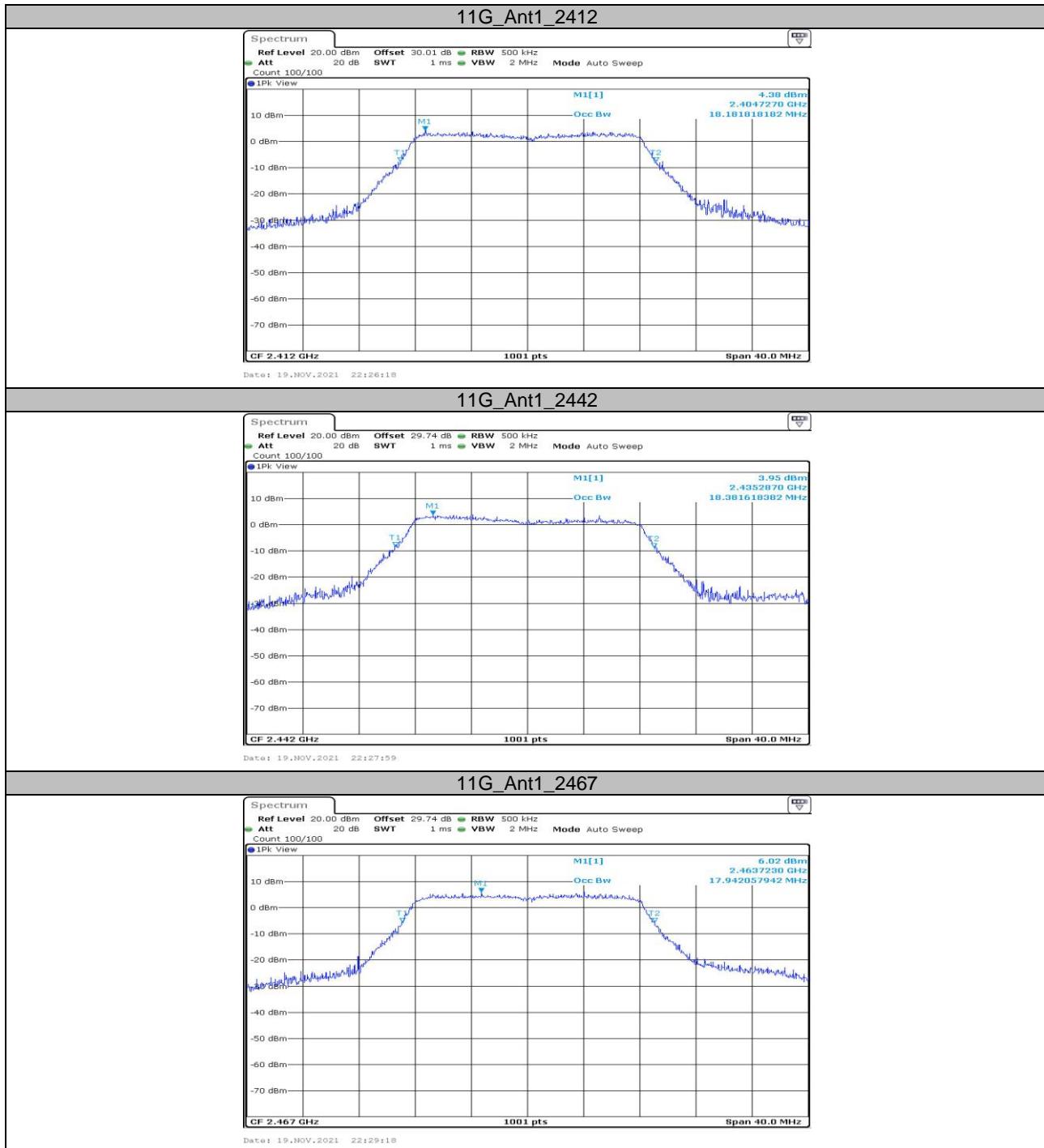


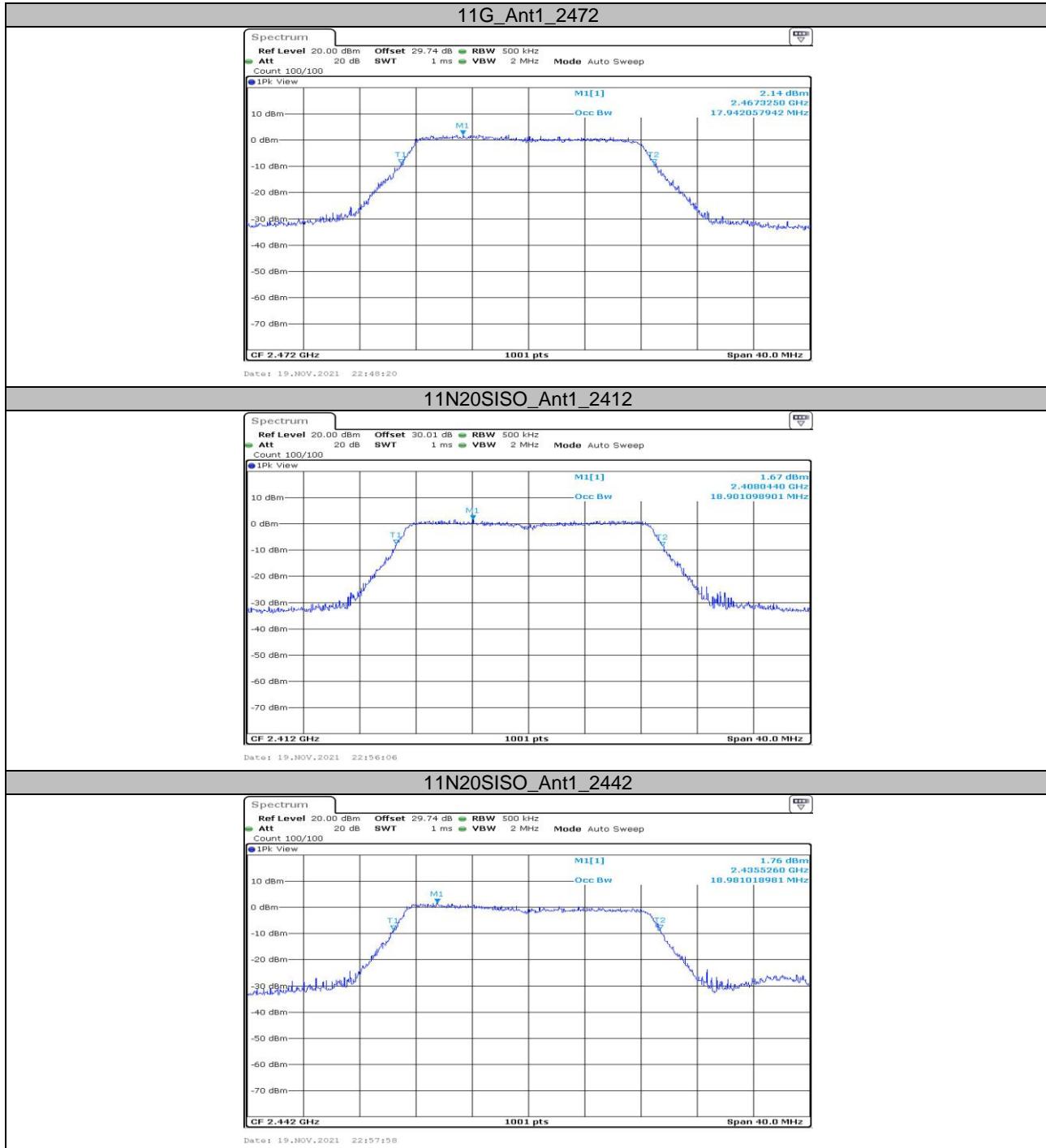
**Appendix B: Occupied Channel Bandwidth
Test Result**

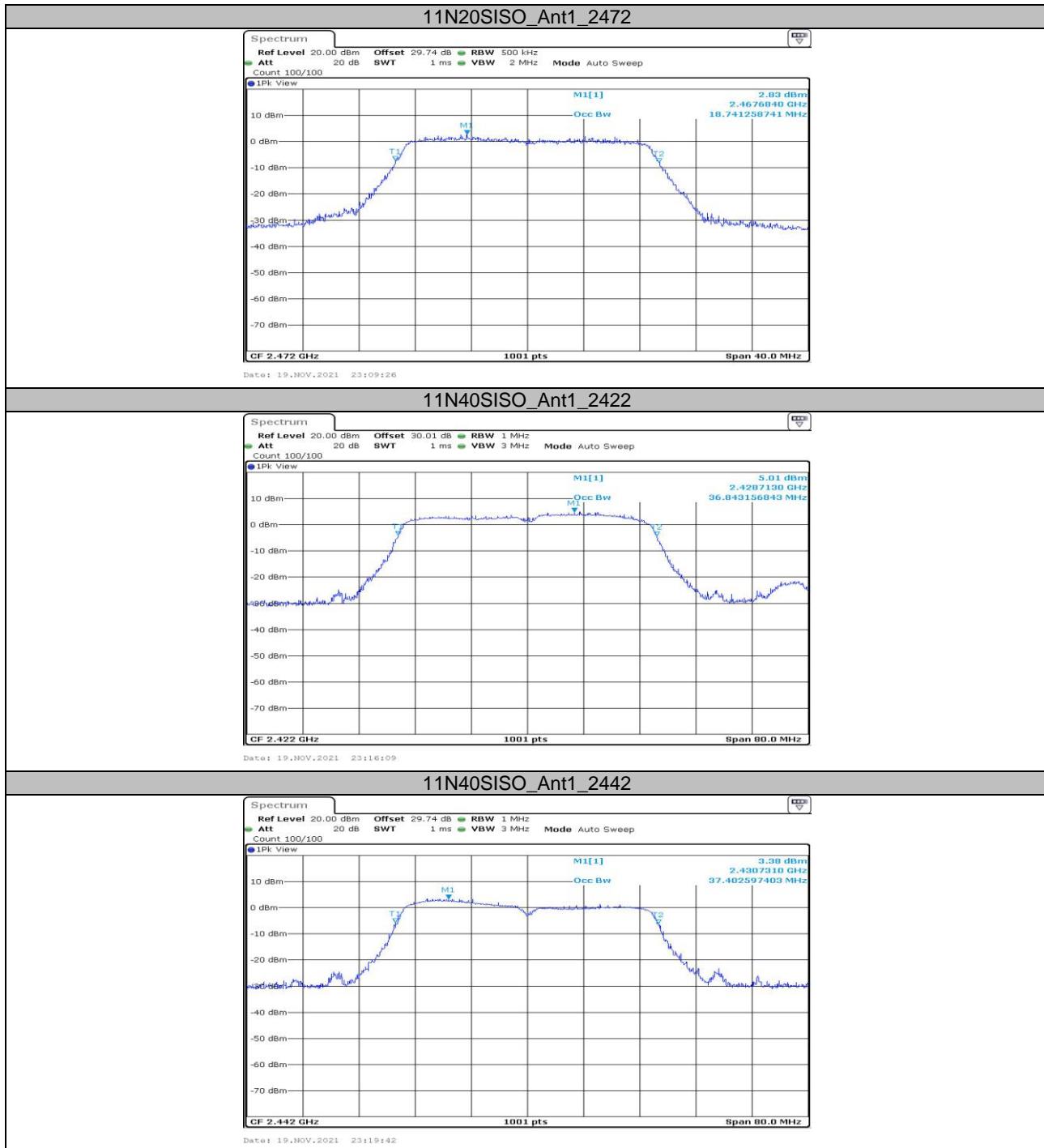
Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.666	---	PASS
		2442	13.666	---	PASS
		2472	13.666	---	PASS
11G	Ant1	2412	18.182	---	PASS
		2442	18.382	---	PASS
		2467	17.942	---	PASS
		2472	17.942	---	PASS
11N20SISO	Ant1	2412	18.901	---	PASS
		2442	18.981	---	PASS
		2472	18.741	---	PASS
11N40SISO	Ant1	2422	36.843	---	PASS
		2442	37.403	---	PASS
		2462	37.003	---	PASS

Test Graphs











Appendix C: Maximum conducted output power Test Result

PEAK:

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.92	≤30	PASS
		2442	14.32	≤30	PASS
		2472	13.82	≤30	PASS
11G	Ant1	2412	15.94	≤30	PASS
		2442	15.28	≤30	PASS
		2467	16.44	≤30	PASS
		2472	13.62	≤30	PASS
11N20SISO	Ant1	2412	13.11	≤30	PASS
		2442	13.51	≤30	PASS
		2472	13.39	≤30	PASS
11N40SISO	Ant1	2422	13.61	≤30	PASS
		2442	12.81	≤30	PASS
		2462	13.40	≤30	PASS

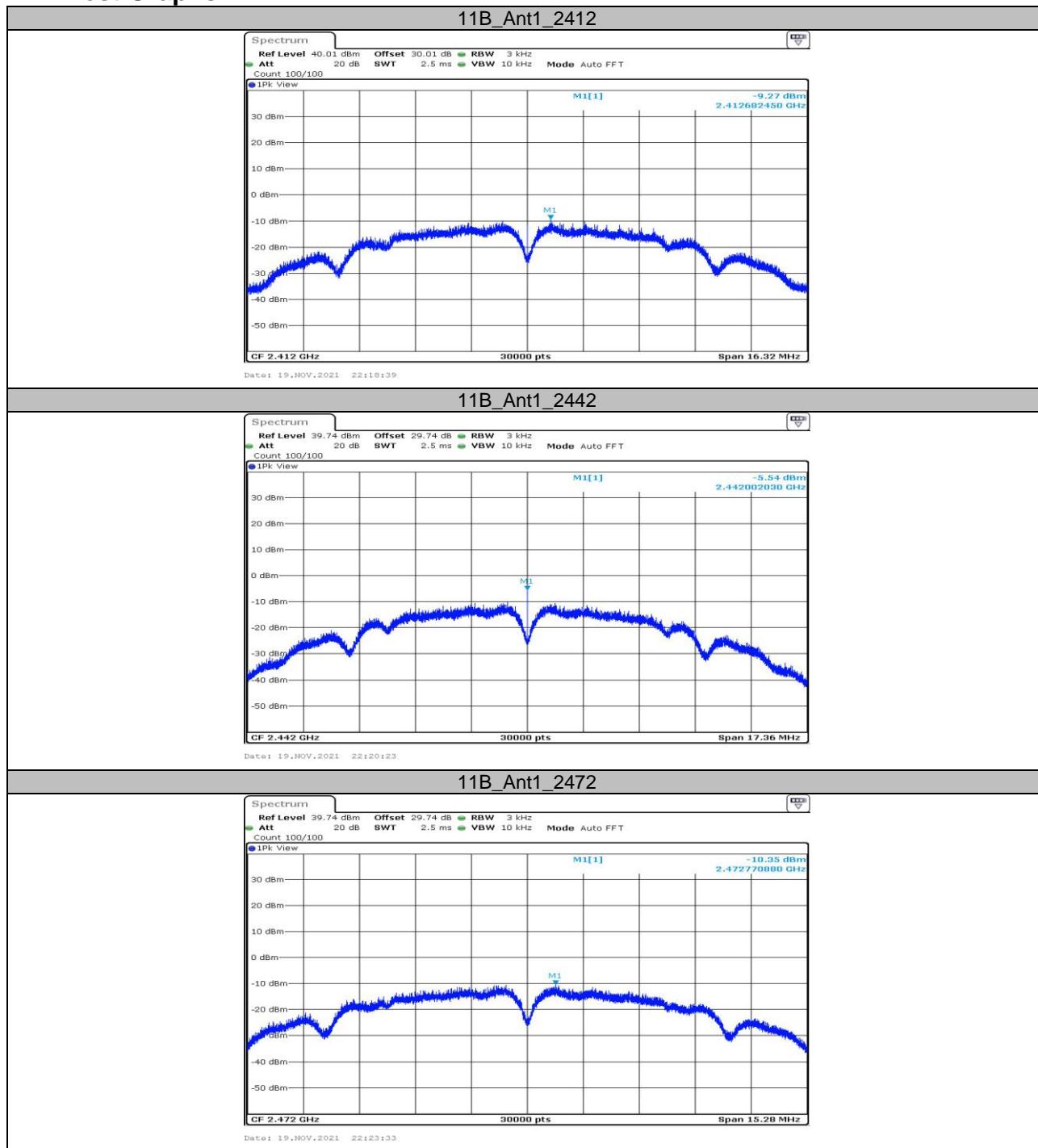
AV:

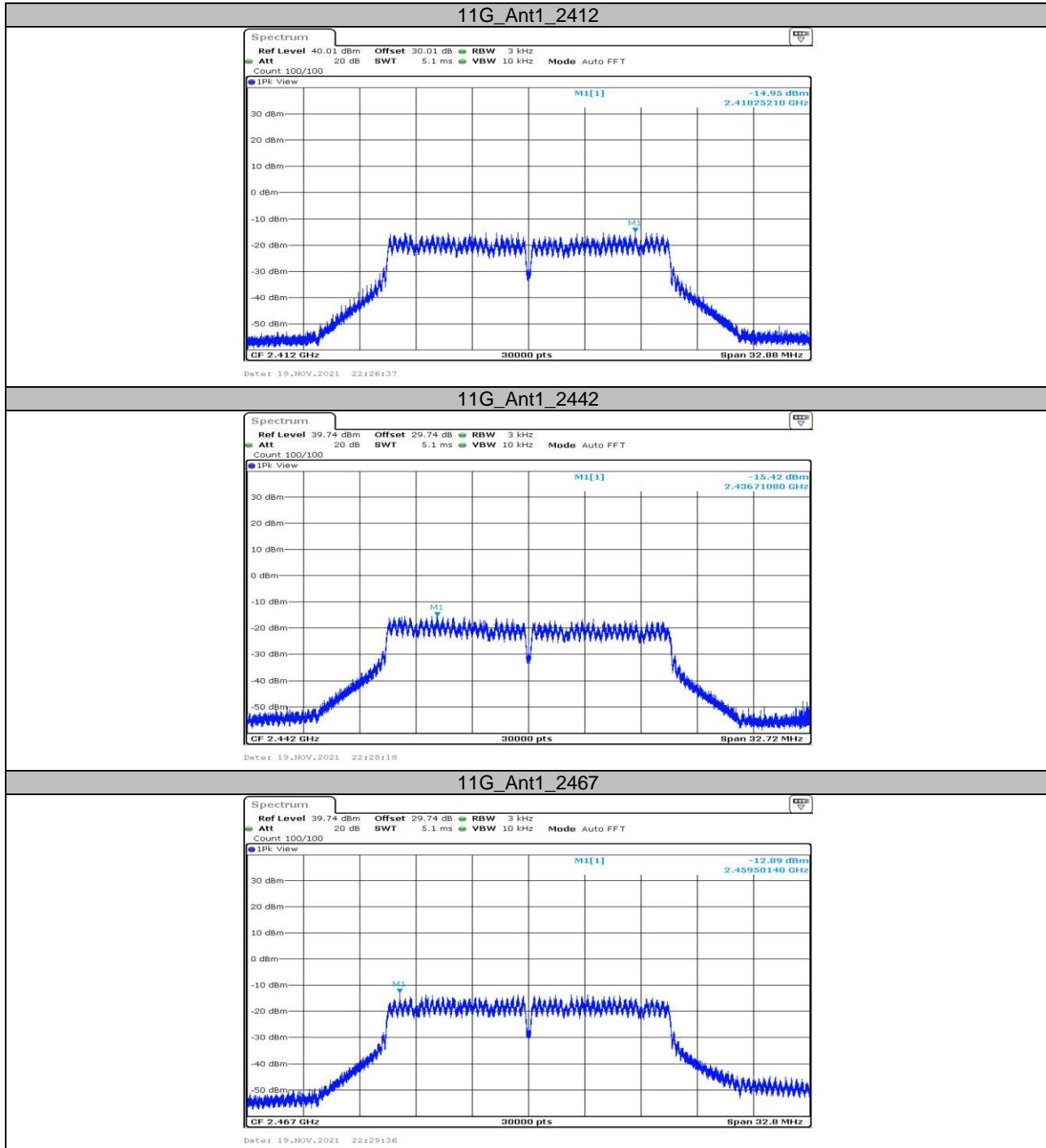
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	10.82	≤30	PASS
		2442	10.87	≤30	PASS
		2472	10.34	≤30	PASS
11G	Ant1	2412	9.36	≤30	PASS
		2442	9.17	≤30	PASS
		2467	10.59	≤30	PASS
		2472	8.04	≤30	PASS
11N20SISO	Ant1	2412	7.75	≤30	PASS
		2442	8.48	≤30	PASS
		2472	8.14	≤30	PASS
11N40SISO	Ant1	2422	8.60	≤30	PASS
		2442	7.32	≤30	PASS
		2462	7.96	≤30	PASS

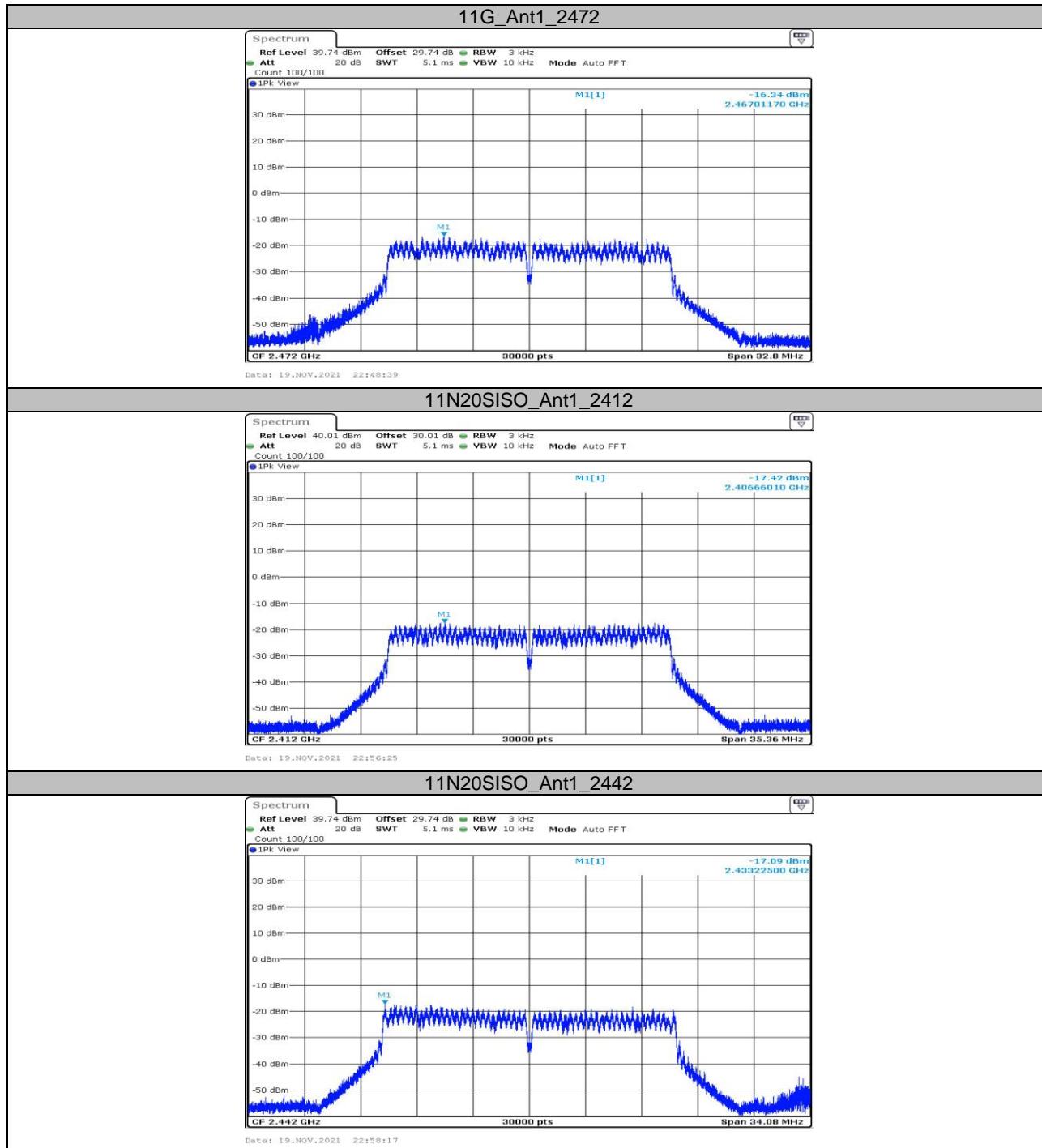
**Appendix D: Maximum power spectral density
Test Result**

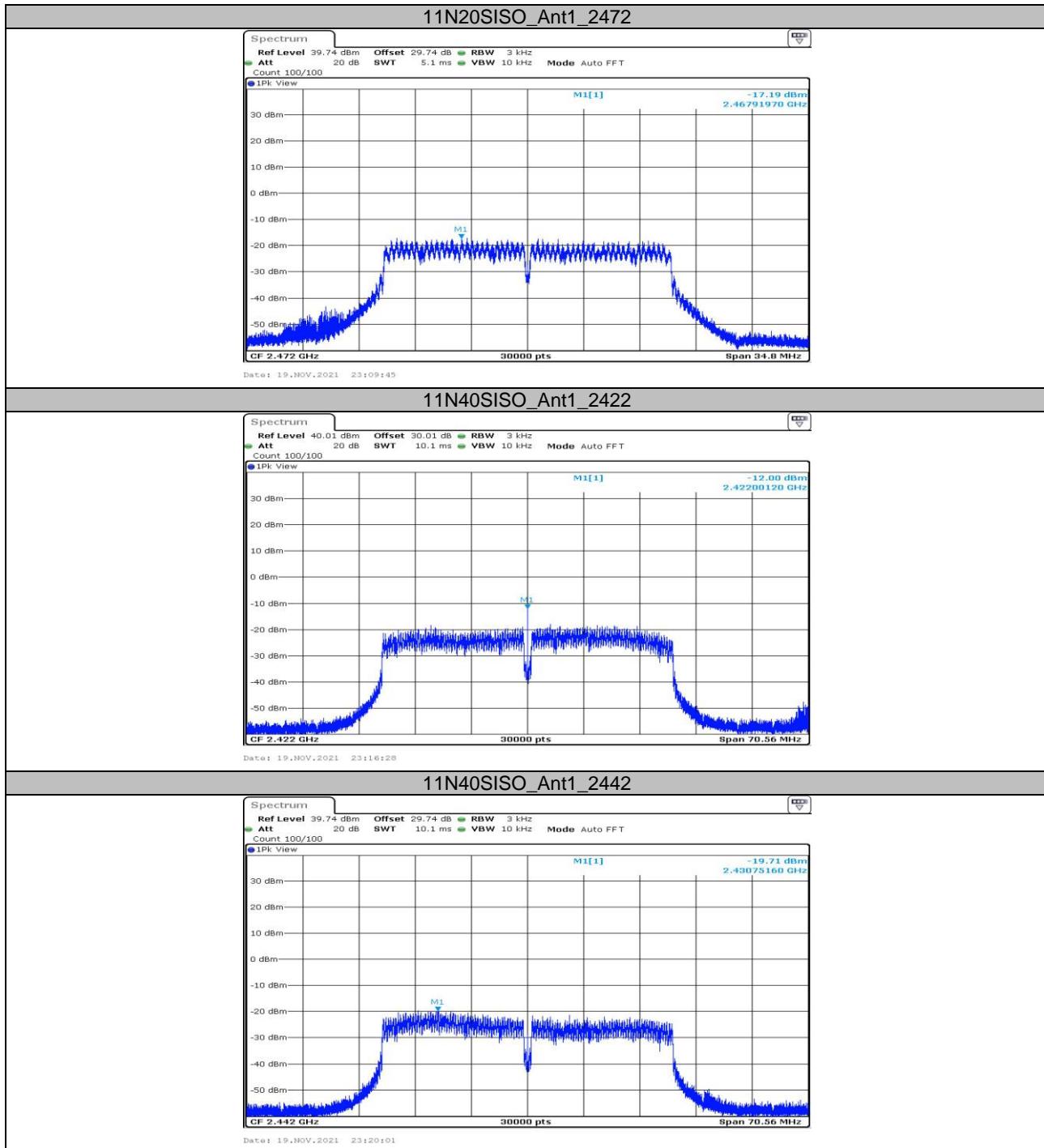
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.27	≤8	PASS
		2442	-5.54	≤8	PASS
		2472	-10.35	≤8	PASS
11G	Ant1	2412	-14.95	≤8	PASS
		2442	-15.42	≤8	PASS
		2467	-12.89	≤8	PASS
		2472	-16.34	≤8	PASS
11N20SISO	Ant1	2412	-17.42	≤8	PASS
		2442	-17.09	≤8	PASS
		2472	-17.19	≤8	PASS
11N40SISO	Ant1	2422	-12.00	≤8	PASS
		2442	-19.71	≤8	PASS
		2462	-18.02	≤8	PASS

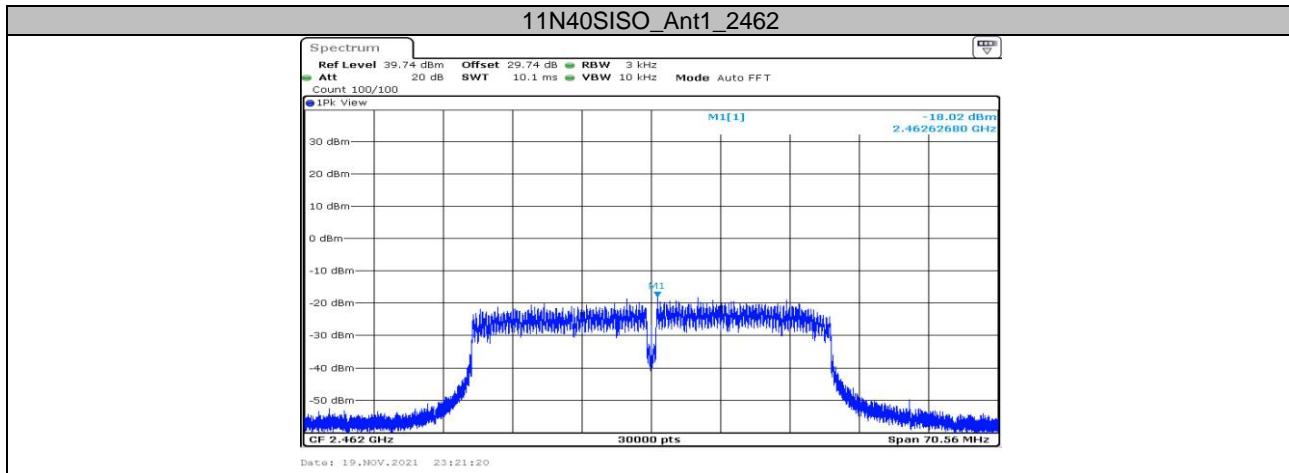
Test Graphs





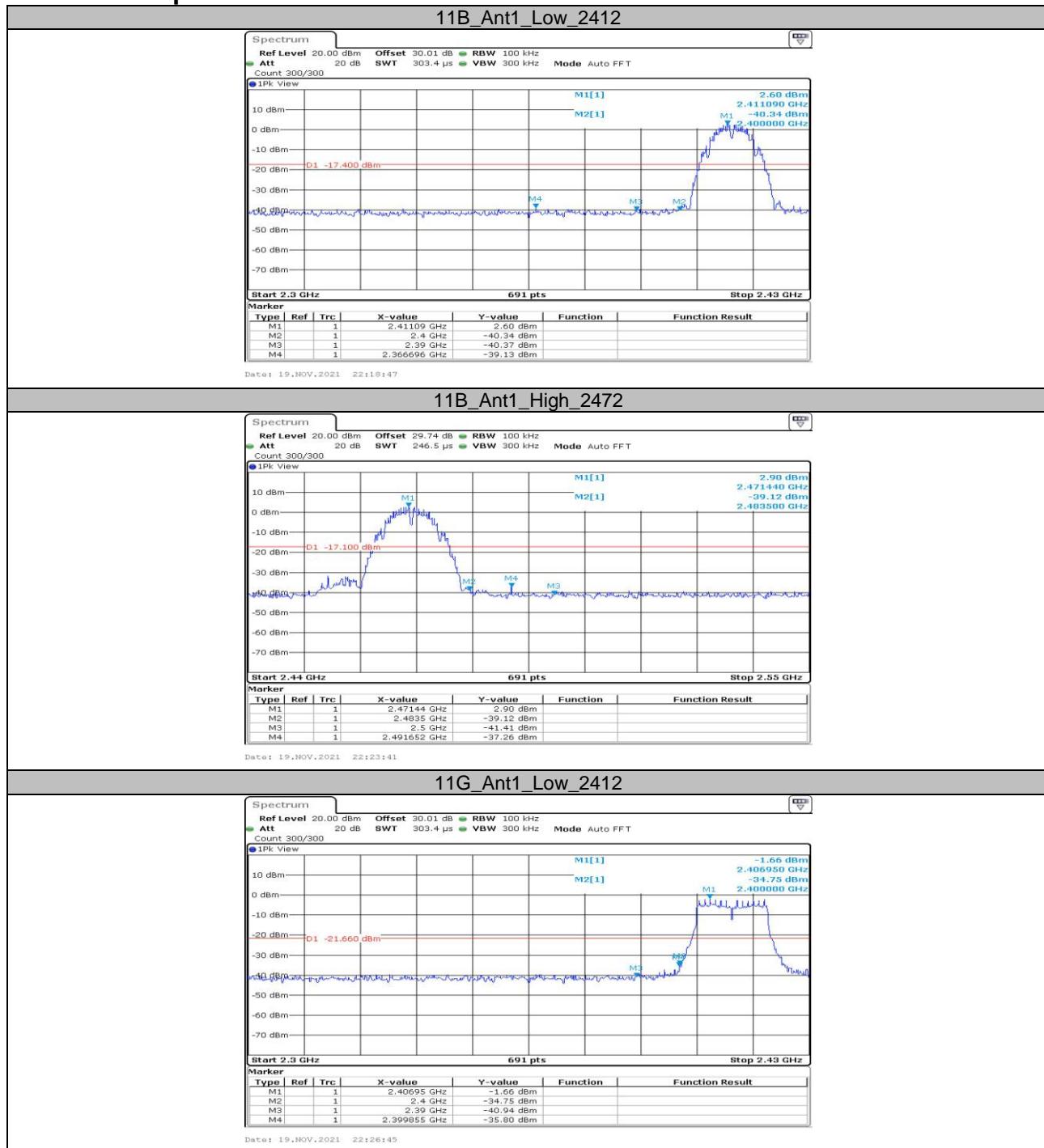


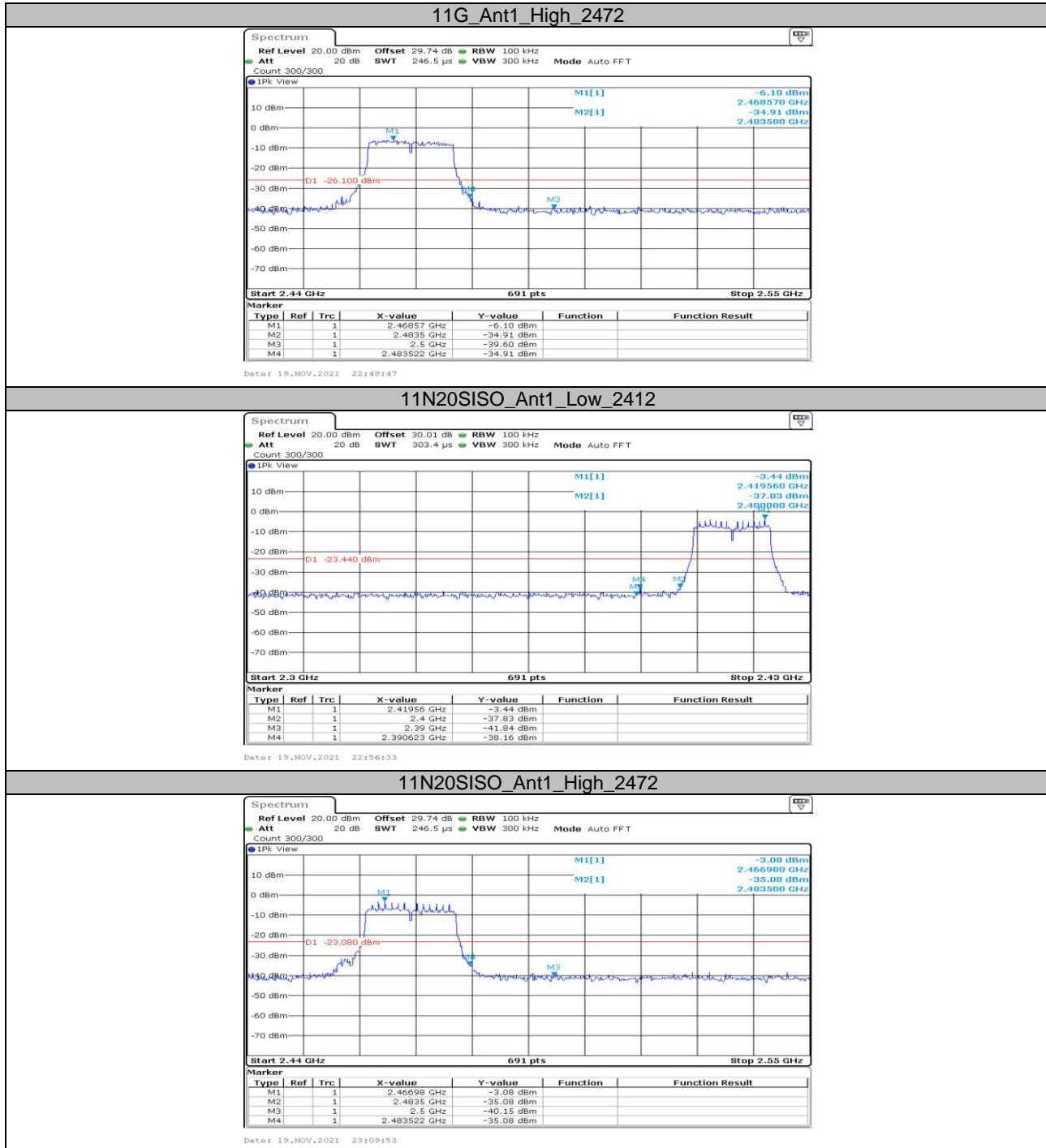


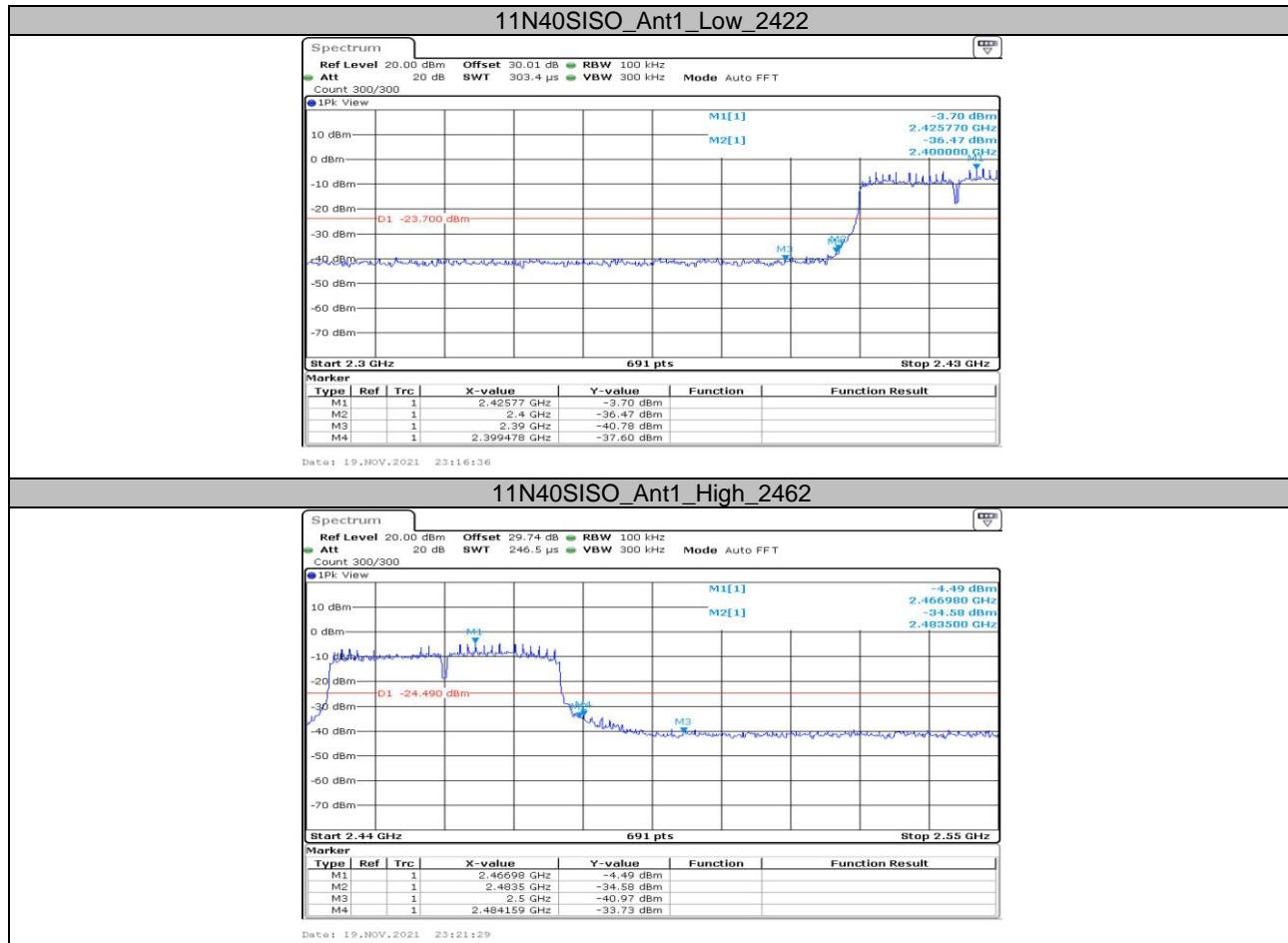


Appendix E: Band edge measurements

Test Graphs



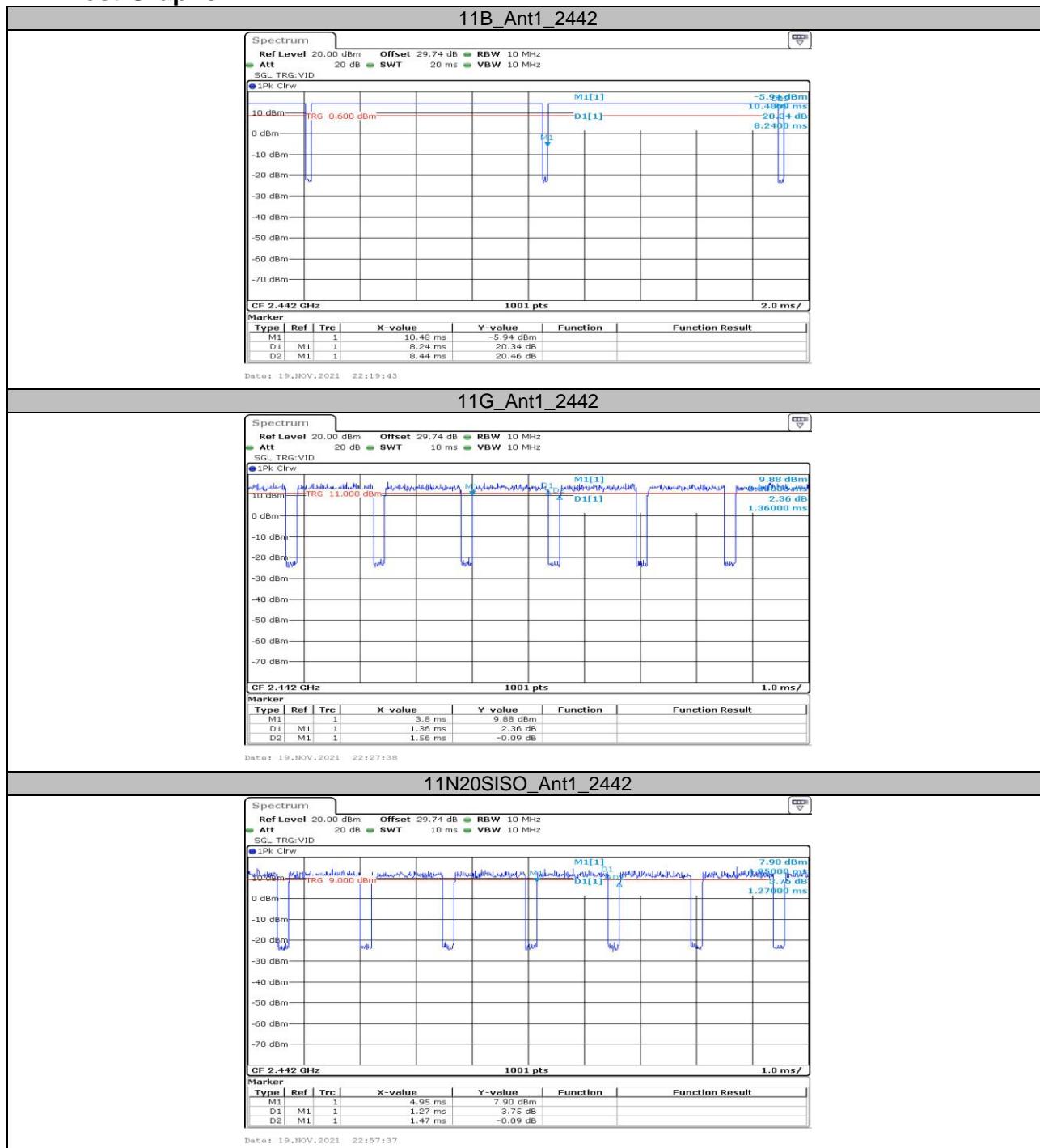


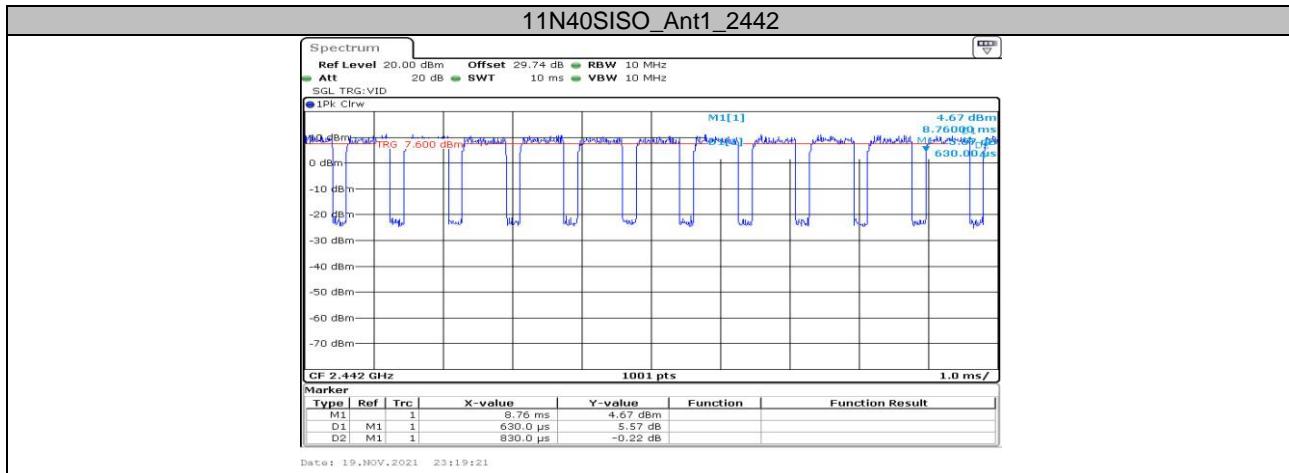


**Appendix F: Duty Cycle
Test Result**

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2442	8.24	8.44	97.63
11G	Ant1	2442	1.36	1.56	87.18
11N20SISO	Ant1	2442	1.27	1.47	86.39
11N40SISO	Ant1	2442	0.63	0.83	75.90

Test Graphs



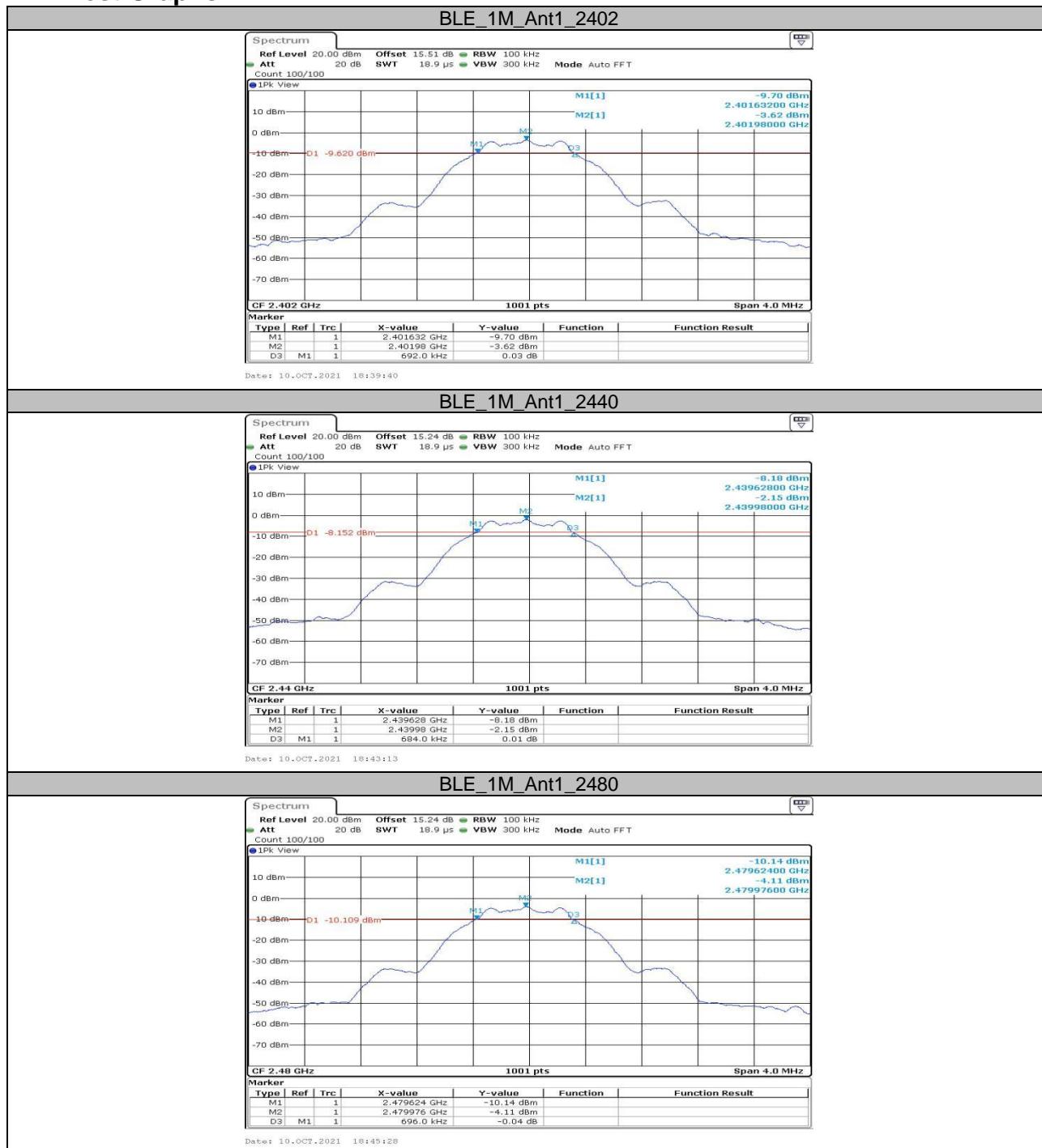


APPENDIX BLE

Appendix A: DTS Bandwidth Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	0.5	PASS
		2440	0.684	0.5	PASS
		2480	0.696	0.5	PASS

Test Graphs



**Appendix B: Occupied Channel Bandwidth
Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.063	---	PASS
		2440	1.063	---	PASS
		2480	1.063	---	PASS

Test Graphs



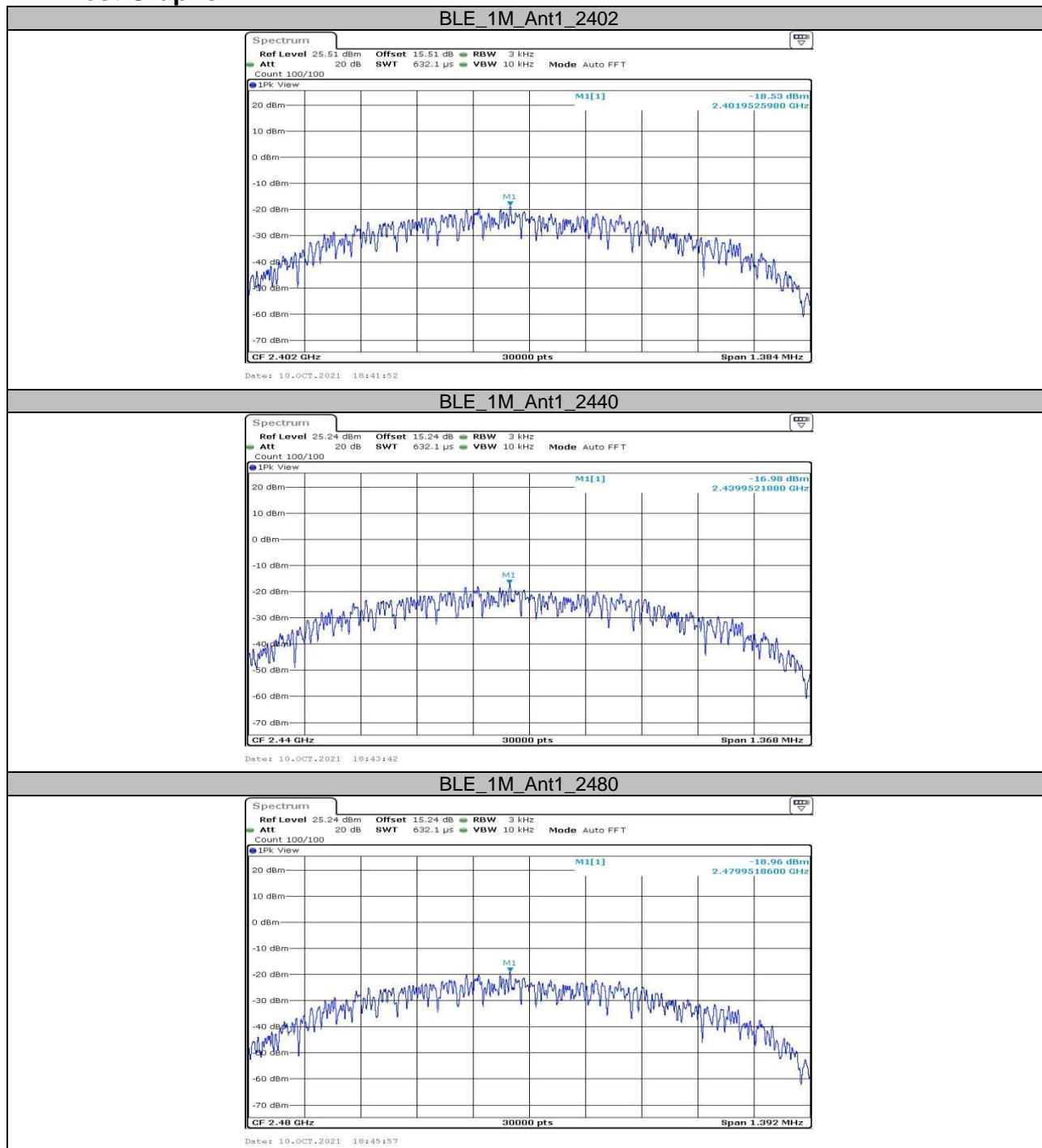
Appendix C: Maximum conducted Peak output power**Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.53	≤30	PASS
		2440	-0.78	≤30	PASS
		2480	-2.66	≤30	PASS

**Appendix D: Maximum power spectral density
Test Result**

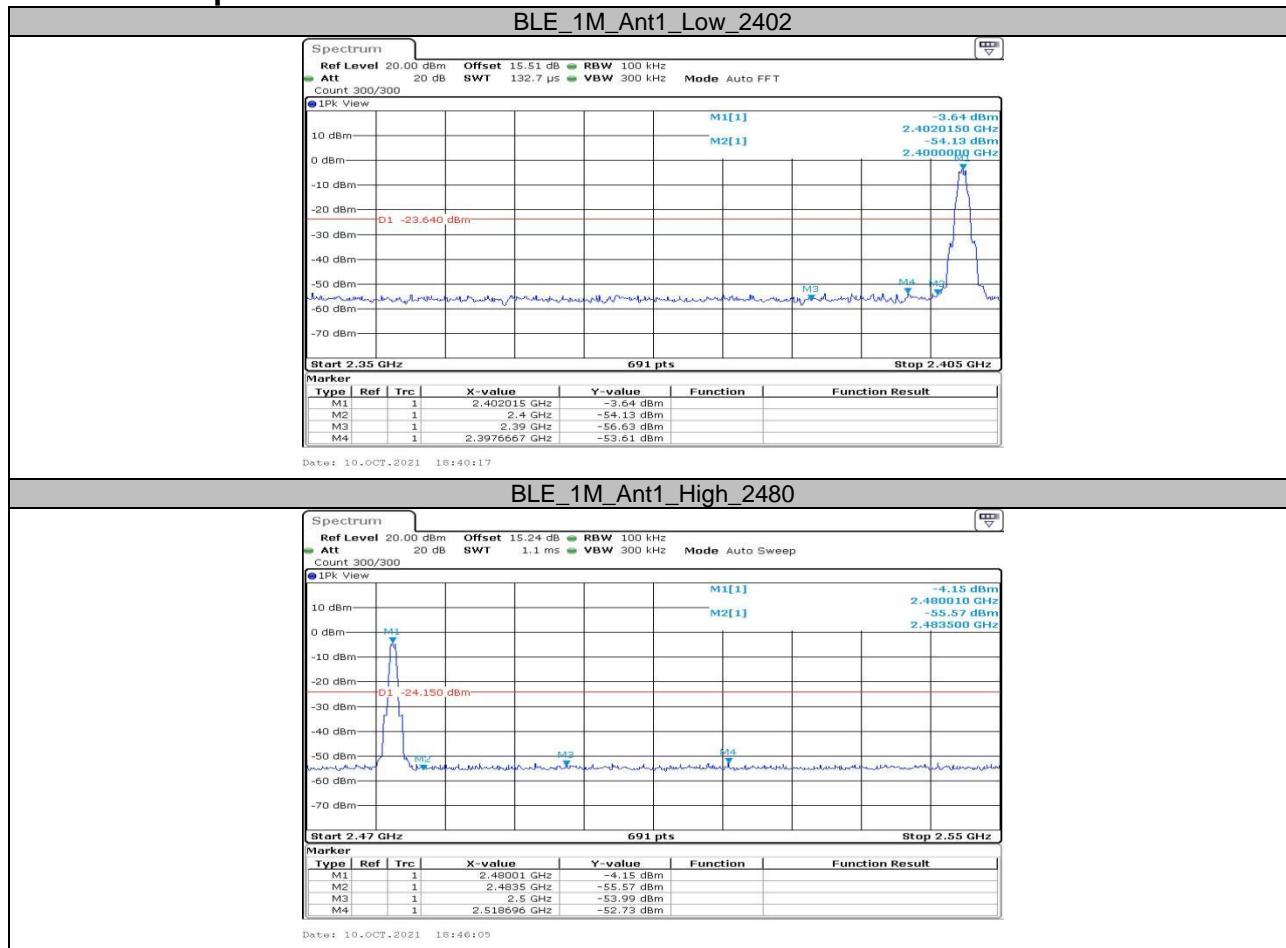
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.53	≤8	PASS
		2440	-16.98	≤8	PASS
		2480	-18.96	≤8	PASS

Test Graphs



Appendix E: Band edge measurements

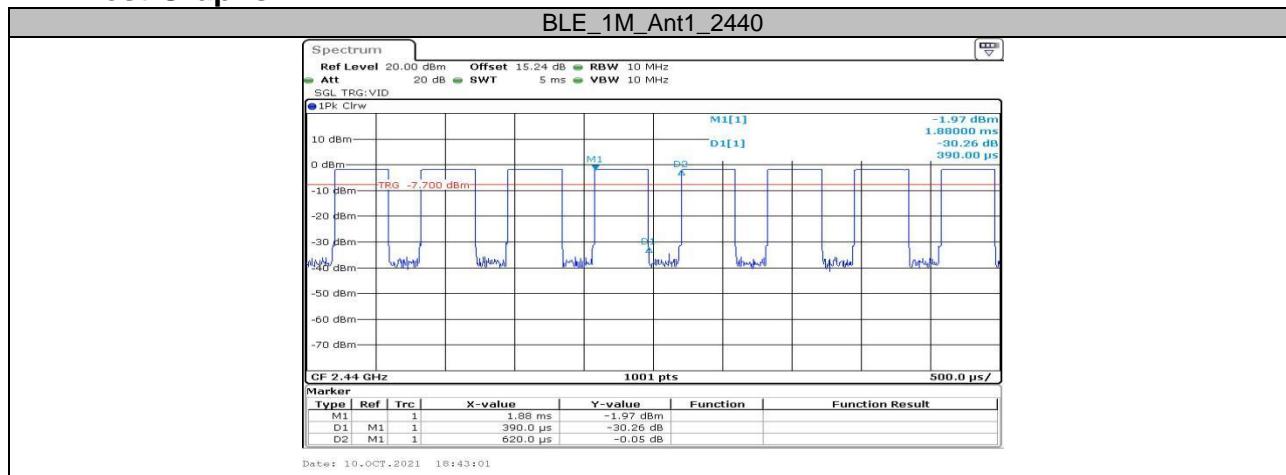
Test Graphs



**Appendix F: Duty Cycle
Test Result**

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2440	0.39	0.62	62.90

Test Graphs



***** END OF REPORT *****