

FCC RADIO TEST REPORT

FCC ID: 2BDIA-RWSQ-12

Sample : WiFi Pet Feeder

Trade Name : ROJECO

Main Model : RWSQ-12

Additional Model : RWSQ-13, RWSQ-14, RWSQ-15

Report No. : UNIA23110209ER-62

Prepared for

Nanchang YueLing Technology Co., Ltd.

Rm.1612, Cuilin Bldg., 1266 Fenghe Central Ave., Honggutan Dist.,
Nanchang China

Prepared by

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TEST RESULT CERTIFICATION

Applicant : Nanchang YueLing Technology Co., Ltd.
Address : Rm.1612, Cuilin Bldg., 1266 Fenghe Central Ave., Honggutan Dist., Nanchang China
Manufacturer : Nanchang YueLing Technology Co., Ltd.
Address : Rm.1612, Cuilin Bldg., 1266 Fenghe Central Ave., Honggutan Dist., Nanchang China

Product description

Product : WiFi Pet Feeder
Trade Mark : ROJECO
Model Name : RWSQ-12, RWSQ-13, RWSQ-14, RWSQ-15

Test Methods : FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :

Date (s) of performance of tests : Nov. 02, 2023 ~ Nov. 21, 2023

Date of Issue : Nov. 23, 2023

Test Result : Pass

Prepared by:



Jason Ye/Editor

Reviewer:



Kelly Cheng/Supervisor

Approved & Authorized Signer:



Liuze/Manager

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1 TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

Item	FCC Rules	Description Of Test	Result
1	FCC Part 15.207	Conducted Emission	Pass
2	FCC Part 15.209(a)	Radiated Emission	Pass
3	FCC Part 15.247(a)(2)	Occupied Bandwidth	Pass
4	FCC Part 15.247(e)	Power Spectral Density	Pass
5	FCC Part 15.247(b)	Peak Output Power	Pass
6	FCC Part 15.247(d)	Out Of Band Emissions	Pass
7	FCC Part 15.247(d)	Conducted Spurious Emission	Pass
8	FCC Part 15.203	Antenna Requirement	Pass

Note:

“N/A” denotes test is not applicable in this Test Report.

1.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.
Address : D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community,
Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 31584

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
UNI	ANSI	9kHz ~ 150kHz	2.96
		150kHz ~ 30MHz	2.44

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
UNI	ANSI	9kHz ~ 30MHz	2.50
		30MHz ~ 1000MHz	4.80
		1000MHz ~ 18000MHz	4.13

C. RF Conducted Method:

Item	Measurement Uncertainty
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

1.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (°C)	15 - 35	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product:	WiFi Pet Feeder
Trade Mark:	ROJECO
Main Model:	RWSQ-12
Additional Model:	RWSQ-13, RWSQ-14, RWSQ-15
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: RWSQ-12.
FCC ID:	2BDIA-RWSQ-12
Operation Frequency:	802.11b/g/n20:2412~2462MHz
Number of Channels:	802.11b/g/n20: 11CH
Maximum Peak Conducted Output Power:	15.67 dBm
Modulation Type:	CCK, OFDM, DBPSK, DAPSK
Antenna Type:	PCB Antenna
Antenna Gain:	2.54dBi
Battery:	DC 6V
Adapter:	Model: QL010-0501000CU Input: AC 100-240V, 50/60Hz, 0.45A Output: DC 5.0V, 1.0A
Power Source:	DC 5.0V from adapter or DC 6V from battery

2.2 CARRIER FREQUENCY OF CHANNELS

Channel List for 802.11b/g/n(HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

2.3 TEST MODE

The EUT was programmed to be in continuously transmitting mode.

Channel List for 802.11b/g/n(HT20)		
Test Channel	EUT Channel	Test Frequency (MHz)
Low	CH01	2412
Middle	CH06	2437
High	CH11	2462

2.4 DESCRIPTION OF THE TEST MODES

During the measurement the environmental conditions were within the listed ranges:

Voltage	Normal Voltage	DC 6V
	High Voltage	DC 6.6V
	Low Voltage	DC 5.4V
Other	Normal Temperature	24°C
	Relative Humidity	55 %
	Air Pressure	989 hPa

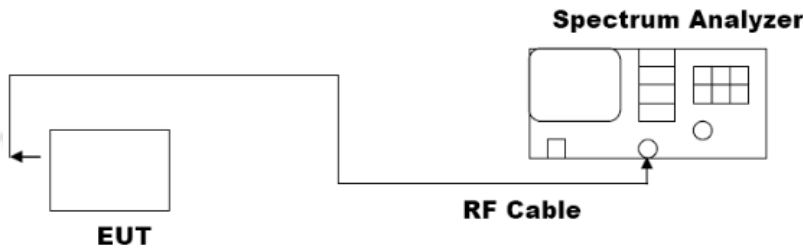
Note: All modes were test at Normal Voltage, High Voltage, and Low Voltage, only the worst results of Normal Voltage was reported in the test report.

2.5 TEST SETUP

Operation of EUT during Conducted and Radiation testing:



Operation of EUT during RF Conducted testing:



2.6 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model No.	Cable Length(cm)	Remark
1	WiFi Pet Feeder	RWSQ-12	--	EUT
2	Adapter	MDY-11-EX	--	AE

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

2.7 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
Conduction Emissions Measurement					
1	Conducted Emission Test Software	EZ-EMC	Ver.CCS-3A1-CE	N/A	N/A
2	AMN	Schwarzbeck	NNLK8121	8121370	2024.06.11
3	AAN	TESEQ	T8-Cat6	38888	2024.06.11
4	Pulse Limiter	CYBRTEK	EM5010	E115010056	2024.06.11
5	EMI Test Receiver	Rohde&Schwarz	ESCI	101210	2024.06.11
Radiated Emissions Measurement					
1	Radiated Emission Test Software	EZ-EMC	Ver.CCS-03A1	N/A	N/A
2	Horn Antenna	Sunol	DRH-118	A101415	2025.07.14
3	Broadband Hybrid Antenna	Sunol	JB1	A090215	2025.07.28
4	PREAMP	HP	8449B	3008A00160	2024.06.11
5	PREAMP	HP	8447D	2944A07999	2024.06.11
6	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2024.06.11
7	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2024.06.11
8	Signal Generator	Agilent	E4421B	MY4335105	2024.06.11
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2024.06.11
10	MXA Signal Analyzer	Keysight	N9020A	MY51110104	2024.06.11
11	RF Power sensor	DARE	RPR3006W	15I00041SNO88	2024.06.11
12	RF Power sensor	DARE	RPR3006W	15I00041SNO89	2024.06.11
13	RF power divider	Anritsu	K241B	992289	2024.06.11
14	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2024.06.11
15	Active Loop Antenna	Com-Power	AL-130R	10160009	2024.06.11
16	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2024.09.22
17	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2025.07.14
18	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2024.07.14
19	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2024.09.22
20	Signal Generator	Agilent	N5183A	MY47420153	2024.09.22
21	Spectrum Analyzer	Rohde&Schwarz	FSP 40	100501	2024.09.22
22	Power Meter	KEYSIGHT	N1911A	MY50520168	2024.09.22
23	Frequency Meter	VICTOR	VC2000	997406086	2024.09.22
24	DC Power Source	HYELEC	HY5020E	055161818	2024.09.22

3.1 TEST LIMIT

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15~0.50	79	66	66~56*	56~46*
0.50~5.00	73	60	56	46
5.00~30.0	73	60	60	50

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.3 TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10: 2013.
2. Support equipment, if needed, was placed as per ANSI C63.10: 2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10: 2013.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

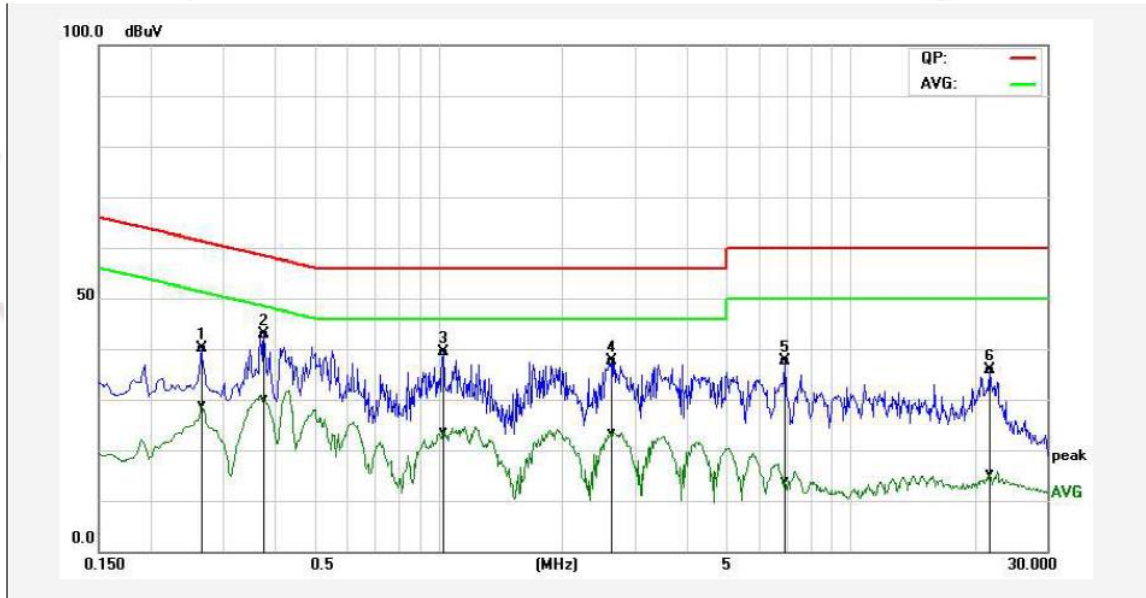
3.4 TEST RESULT

PASS

Remark:

1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.
2. All modes were test at Low, Middle, and High channel, only the worst result of 802.11b Middle Channel was reported.

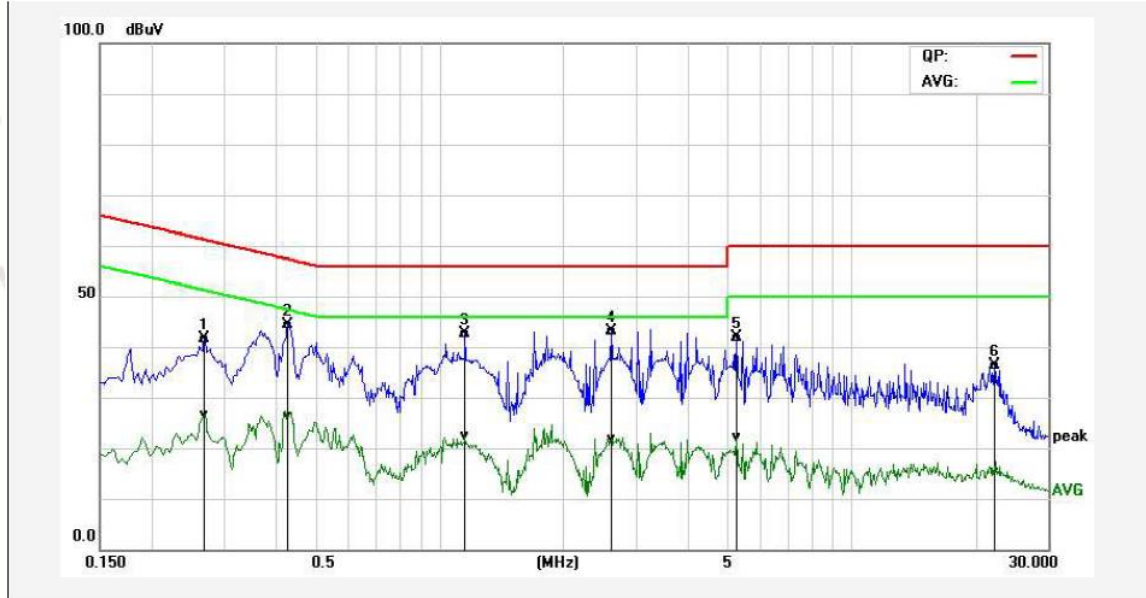
Temperature:	24℃	Relative Humidity:	48%
Test Date:	Nov. 03, 2023	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Line
Test Mode:	Transmitting mode of 802.11b 2437MHz		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.2660	29.58	18.32	10.62	40.20	28.94	61.24	51.24	-21.04	-22.30	Pass
2*	0.3780	32.28	19.58	10.64	42.92	30.22	58.32	48.32	-15.40	-18.10	Pass
3P	1.0300	28.58	12.87	10.77	39.35	23.64	56.00	46.00	-16.65	-22.36	Pass
4P	2.6300	26.66	12.34	11.09	37.75	23.43	56.00	46.00	-18.25	-22.57	Pass
5P	6.9260	25.31	1.69	12.23	37.54	13.92	60.00	50.00	-22.46	-36.08	Pass
6P	21.7180	20.03	-0.34	15.74	35.77	15.40	60.00	50.00	-24.23	-34.60	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

Temperature:	24°C	Relative Humidity:	48%
Test Date:	Nov. 03, 2023	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral
Test Mode:	Transmitting mode of 802.11b 2437MHz		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.2700	31.09	15.98	10.62	41.71	26.60	61.12	51.12	-19.41	-24.52	Pass
2P	0.4300	33.63	15.69	10.67	44.30	26.36	57.25	47.25	-12.95	-20.89	Pass
3P	1.1580	31.96	11.60	10.79	42.75	22.39	56.00	46.00	-13.25	-23.61	Pass
4*	2.6180	32.06	10.78	11.08	43.14	21.86	56.00	46.00	-12.86	-24.14	Pass
5P	5.2500	30.08	10.39	11.74	41.82	22.13	60.00	50.00	-18.18	-27.87	Pass
6P	22.2939	20.46	-0.51	15.87	36.33	15.36	60.00	50.00	-23.67	-34.64	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

4 RADIATED EMISSION

4.1 TEST LIMIT

For unintentional device, according to §15.209(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F (kHz)	-	Quasi-peak	300
0.490MHz-1.705MHz	24000/F (kHz)	-	Quasi-peak	30
1.705MHz-30MHz	30	-	Quasi-peak	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3
		74.0	Peak	3

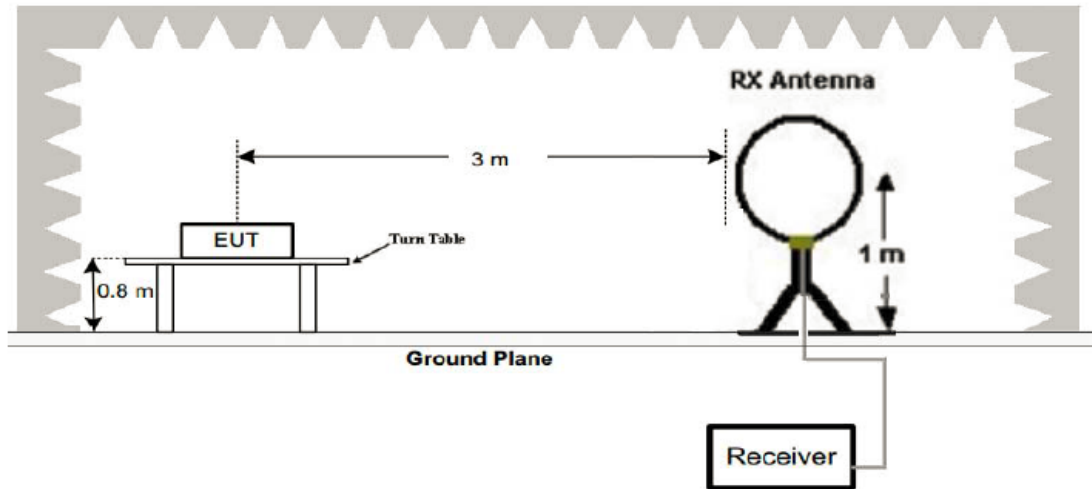
Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	$20\log(2400/F(KHz))+40\log(300/3)$	3
0.490-1.705	$20\log(24000/F(KHz))+40\log(30/3)$	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

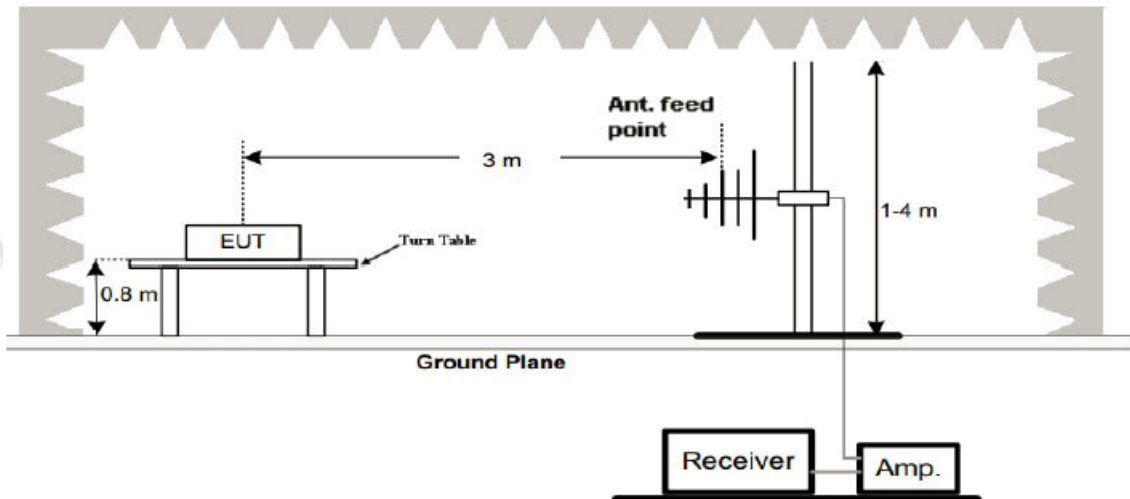
For intentional device, according to §15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 TEST SETUP

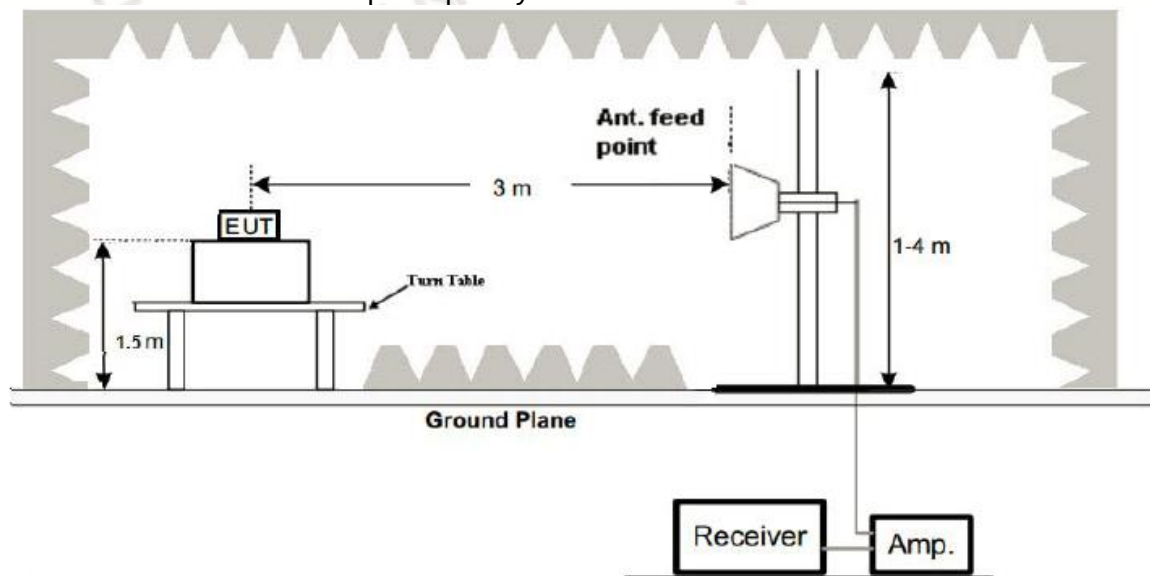
1. Radiated Emission Test-Up Frequency Below 30MHz



2. Radiated Emission Test-Up Frequency 30MHz~1GHz



3. Radiated Emission Test-Up Frequency Above 1GHz



4.3 TEST PROCEDURE

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9kHz to 25GHz per FCC PART 15.33(a).

Note: For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 TEST RESULT

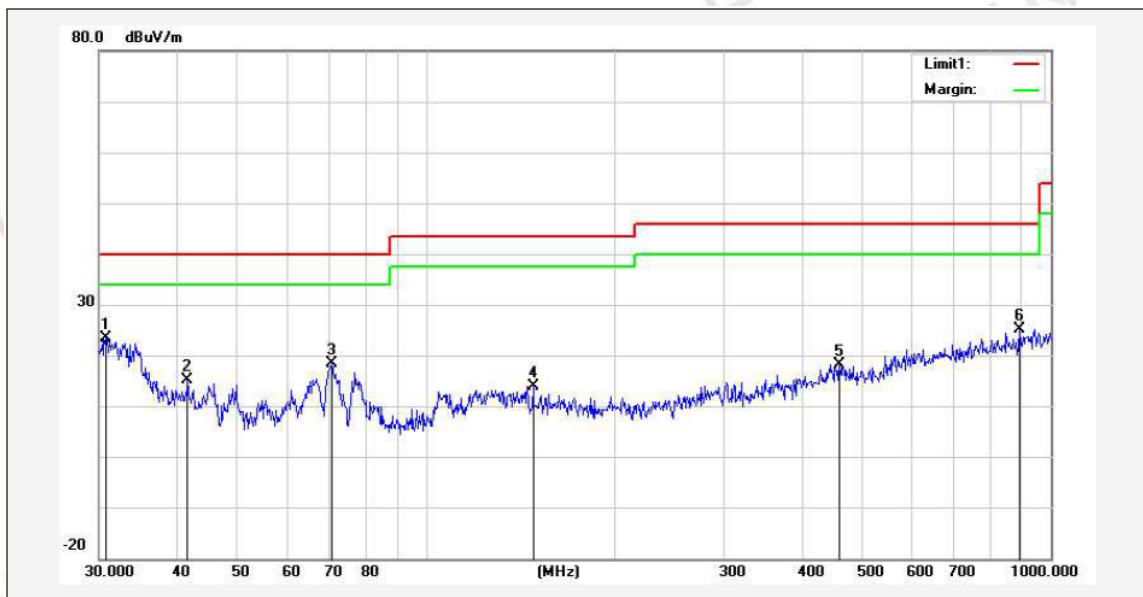
PASS

Remark:

1. All modes were test at Low, Middle, and High channel, only the worst result of 802.11b Middle Channel was reported for below 1GHz test.
2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, and test data recorded in this report.

Below 1GHz Test Results:

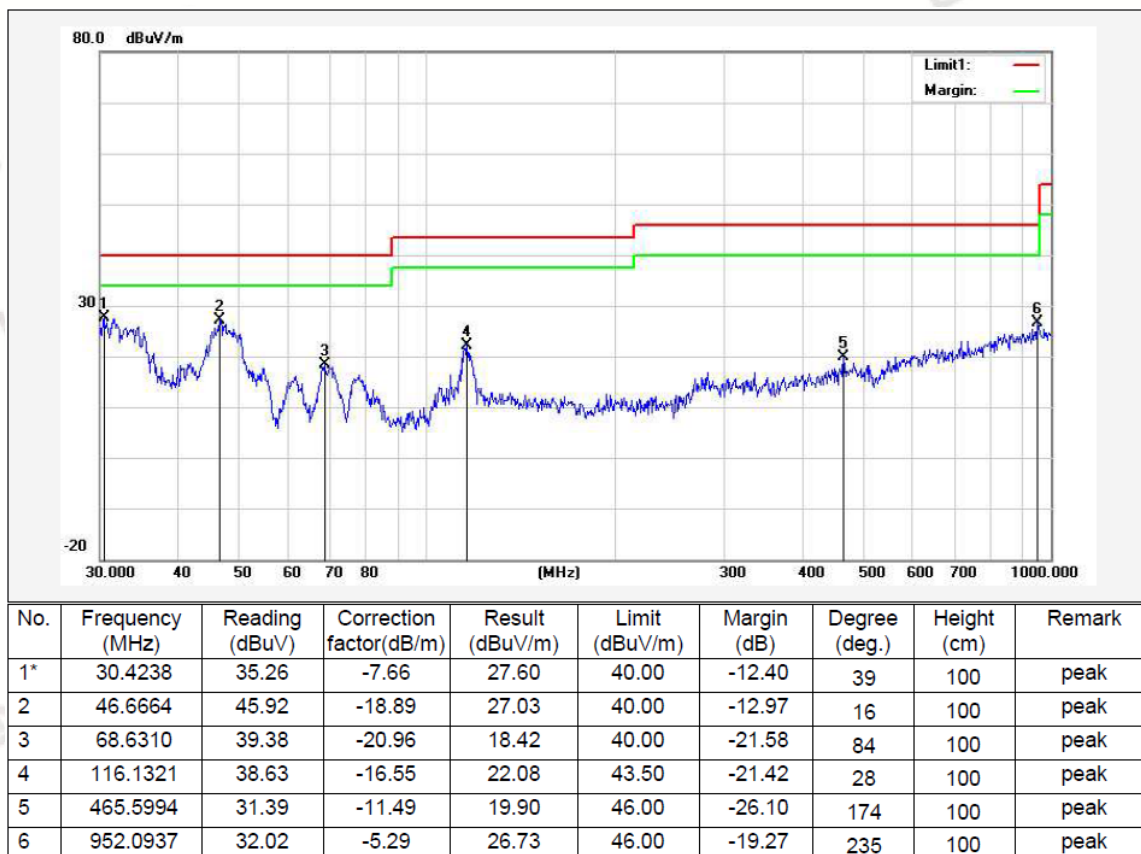
Temperature:	24℃	Relative Humidity:	48%
Test Date:	Nov. 03, 2023	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Horizontal
Test Mode:	Transmitting mode of 802.11b 2437MHz		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	30.7455	31.27	-7.91	23.36	40.00	-16.64	26	100	peak
2	41.5670	31.16	-16.12	15.04	40.00	-24.96	163	100	peak
3	70.8315	39.24	-20.82	18.42	40.00	-21.58	47	100	peak
4	148.4410	30.42	-16.64	13.78	43.50	-29.72	102	100	peak
5	459.1144	29.88	-11.64	18.24	46.00	-27.76	54	100	peak
6	890.7278	30.91	-5.84	25.07	46.00	-20.93	68	100	peak

Remark: Result = Reading Level + Factor, Margin = Result – Limit
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Temperature:	24℃	Relative Humidity:	48%
Test Date:	Nov. 03, 2023	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Vertical
Test Mode:	Transmitting mode of 802.11b 2437MHz		



Remark: Result = Reading Level + Factor, Margin = Result – Limit
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Remark:

1. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, emission from 9kHz to 30MHz are more than 20dB below the limit, so it was not recorded in this report.
2. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
3. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1MHz for measuring above 1GHz, below 30MHz was 10kHz.

Above 1 GHz Test Results:

CH01 of 802.11b Mode (2412MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	62.73	-3.64	59.09	74	-14.91	PK
4824	50.07	-3.64	46.43	54	-7.57	AV
7236	58.62	-0.95	57.67	74	-16.33	PK
7236	46.92	-0.95	45.97	54	-8.03	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.82	-3.64	58.18	74	-15.82	PK
4824	49.5	-3.64	45.86	54	-8.14	AV
7236	59.03	-0.95	58.08	74	-15.92	PK
7236	47.33	-0.95	46.38	54	-7.62	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH06 of 802.11b Mode (2437MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	62.14	-3.51	58.63	74	-15.37	PK
4874	50.19	-3.51	46.68	54	-7.32	AV
7311	58.99	-0.82	58.17	74	-15.83	PK
7311	47.4	-0.82	46.58	54	-7.42	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.86	-3.51	58.35	74	-15.65	PK
4874	49.69	-3.51	46.18	54	-7.82	AV
7311	58.71	-0.82	57.89	74	-16.11	PK
7311	46.83	-0.82	46.01	54	-7.99	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH11 of 802.11b Mode (2462MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	61.51	-3.43	58.08	74	-15.92	PK
4924	49.59	-3.43	46.16	54	-7.84	AV
7386	58.64	-0.75	57.89	74	-16.11	PK
7386	46.96	-0.75	46.21	54	-7.79	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	62.51	-3.43	59.08	74	-14.92	PK
4924	49.63	-3.43	46.2	54	-7.8	AV
7386	58.55	-0.75	57.8	74	-16.2	PK
7386	46.69	-0.75	45.94	54	-8.06	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH01 of 802.11g Mode (2412MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.44	-3.64	57.8	74	-16.2	PK
4824	49.31	-3.64	45.67	54	-8.33	AV
7236	56.93	-0.95	55.98	74	-18.02	PK
7236	46.92	-0.95	45.97	54	-8.03	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	60.92	-3.64	57.28	74	-16.72	PK
4824	49.46	-3.64	45.82	54	-8.18	AV
7236	57.07	-0.95	56.12	74	-17.88	PK
7236	46.76	-0.95	45.81	54	-8.19	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH06 of 802.11g Mode (2437MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.44	-3.51	57.93	74	-16.07	PK
4874	49.78	-3.51	46.27	54	-7.73	AV
7311	57.5	-0.82	56.68	74	-17.32	PK
7311	46.51	-0.82	45.69	54	-8.31	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.35	-3.51	57.84	74	-16.16	PK
4874	49.11	-3.51	45.6	54	-8.4	AV
7311	57.54	-0.82	56.72	74	-17.28	PK
7311	46.62	-0.82	45.8	54	-8.2	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH11 of 802.11g Mode (2462MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	61.46	-3.43	58.03	74	-15.97	PK
4924	48.93	-3.43	45.5	54	-8.5	AV
7386	57.52	-0.75	56.77	74	-17.23	PK
7386	46.31	-0.75	45.56	54	-8.44	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	61.61	-3.43	58.18	74	-15.82	PK
4924	49.15	-3.43	45.72	54	-8.28	AV
7386	57.16	-0.75	56.41	74	-17.59	PK
7386	46.74	-0.75	45.99	54	-8.01	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH01 of 802.11n/HT20 Mode (2412MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.74	-3.64	58.1	74	-15.9	PK
4824	49.49	-3.64	45.85	54	-8.15	AV
7236	57.93	-0.95	56.98	74	-17.02	PK
7236	46.71	-0.95	45.76	54	-8.24	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.55	-3.64	57.91	74	-16.09	PK
4824	49.45	-3.64	45.81	54	-8.19	AV
7236	57.85	-0.95	56.9	74	-17.1	PK
7236	46.61	-0.95	45.66	54	-8.34	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

CH06 of 802.11n/HT20 Mode (2437MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	60.74	-3.51	57.23	74	-16.77	PK
4874	49.5	-3.51	45.99	54	-8.01	AV
7311	57.05	-0.82	56.23	74	-17.77	PK
7311	46.92	-0.82	46.1	54	-7.9	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.15	-3.51	57.64	74	-16.36	PK
4874	49.45	-3.51	45.94	54	-8.06	AV
7311	58.06	-0.82	57.24	74	-16.76	PK
7311	46.52	-0.82	45.7	54	-8.3	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH11of 802.11n/HT20 Mode (2462MHz):

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	61.05	-3.43	57.62	74	-16.38	PK
4924	49.55	-3.43	46.12	54	-7.88	AV
7386	57.51	-0.75	56.76	74	-17.24	PK
7386	46.92	-0.75	46.17	54	-7.83	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924	61.23	-3.43	57.8	74	-16.2	PK
4924	49.37	-3.43	45.94	54	-8.06	AV
7386	57.22	-0.75	56.47	74	-17.53	PK
7386	46.64	-0.75	45.89	54	-8.11	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Remark:

1. Measuring frequencies from 1GHz to the 25GHz.
2. “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency.
3. * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
4. The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
5. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120kHz, 1 MHz for measuring above 1GHz, below 30MHz was 10kHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
6. When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.
7. All modes of operation were investigated and the worst-case emissions are reported.

Operation Mode: CH01 of 802.11b Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	58.22	-5.81	52.41	74	-21.59	
2310	/	-5.81	/	54	/	AV
2390	66.43	-5.84	60.59	74	-13.41	PK
2390	48.89	-5.84	43.05	54	-10.95	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	57.41	-5.81	51.6	74	-22.4	
2310	/	-5.81	/	54	/	AV
2390	66.1	-5.84	60.26	74	-13.74	PK
2390	49.53	-5.84	43.69	54	-10.31	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Operation Mode: CH11 of 802.11b Mode (2462MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.45	-5.65	51.8	74	-22.2	PK
2483.5	/	-5.65	/	54	/	AV
2500	58.26	-5.72	52.54	74	-21.46	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.88	-5.65	52.23	74	-21.77	PK
2483.5	/	-5.65	/	54	/	AV
2500	58.12	-5.72	52.4	74	-21.6	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Operation Mode: CH01 of 802.11g Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	57.75	-5.81	51.94	74	-22.06	PK
2310	/	-5.81	/	54	/	AV
2390	65.73	-5.84	59.89	74	-14.11	PK
2390	48.99	-5.84	43.15	54	-10.85	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	57.64	-5.81	51.83	74	-22.17	PK
2310	/	-5.81	/	54	/	AV
2390	66.23	-5.84	60.39	74	-13.61	PK
2390	48.08	-5.84	42.24	54	-11.76	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Operation Mode: CH11 of 802.11g Mode (2462MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.17	-5.65	51.52	74	-22.48	PK
2483.5	/	-5.65	/	54	/	AV
2500	57.25	-5.72	51.53	74	-22.47	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.28	-5.65	51.63	74	-22.37	PK
2483.5	/	-5.65	/	54	/	AV
2500	57.3	-5.72	51.58	74	-22.42	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Operation Mode: CH01 of 802.11n/HT20 Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	58	-5.81	52.19	74	-21.81	PK
2310	/	-5.81	/	54	/	AV
2390	66.45	-5.84	60.61	74	-13.39	PK
2390	49.08	-5.84	43.24	54	-10.76	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	58.13	-5.81	52.32	74	-21.68	PK
2310	/	-5.81	/	54	/	AV
2390	66.18	-5.84	60.34	74	-13.66	PK
2390	48.43	-5.84	42.59	54	-11.41	AV
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit						

Operation Mode: CH11 of 802.11n/HT20 Mode (2462MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	57.52	-5.65	51.87	74	-22.13	PK
2483.5	/	-5.65	/	54	/	AV
2500	57.51	-5.72	51.79	74	-22.21	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	58.12	-5.65	52.47	74	-21.53	PK
2483.5	/	-5.65	/	54	/	AV
2500	57.91	-5.72	52.19	74	-21.81	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Note:

1. Since the peak value is less than the average limit, the average value does not reflected in the report.

5 6dB BANDWIDTH

5.1 TEST LIMIT

FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

5.2 TEST PROCEDURE

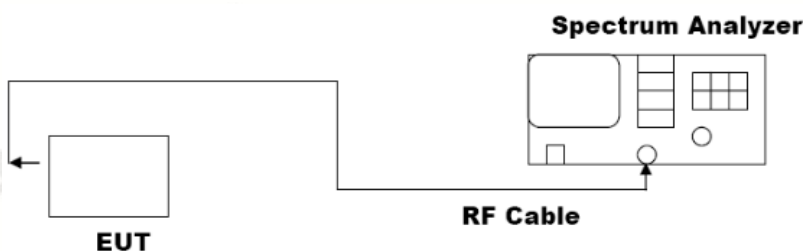
5.2.1 6dB BANDWIDTH MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq 3 \times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

5.2.2 99% OCCUPIED BANDWIDTH

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

5.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



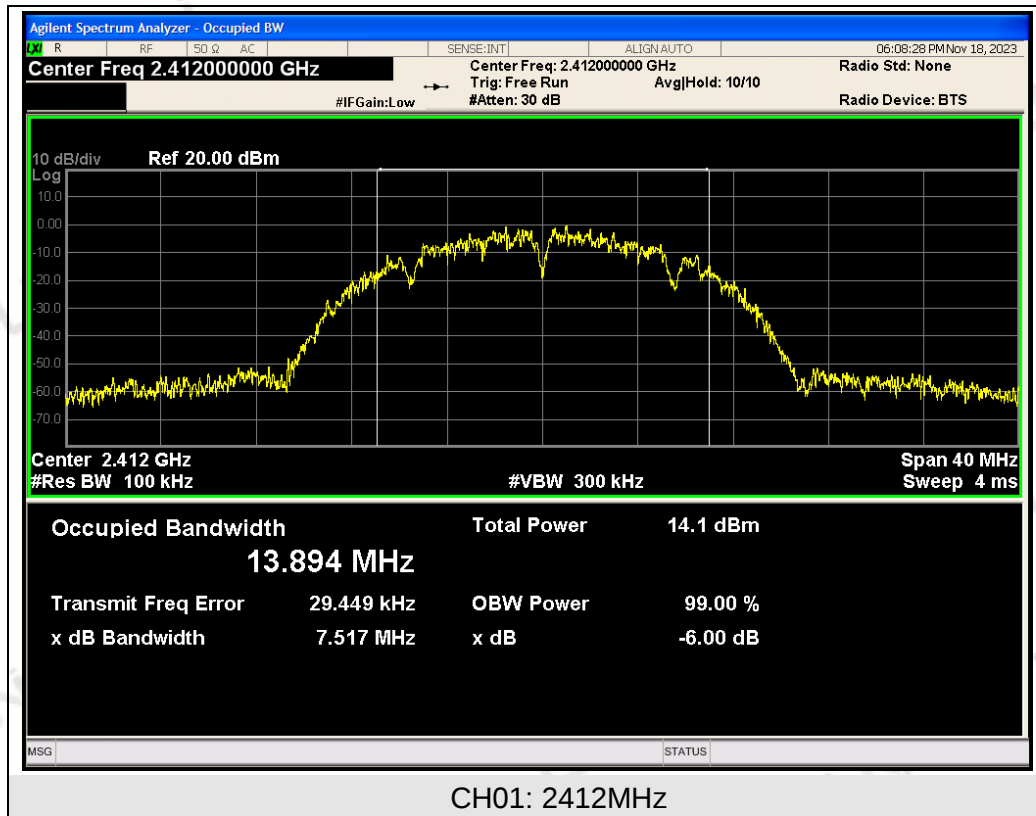
5.4 MEASUREMENT EQUIPMENT USED

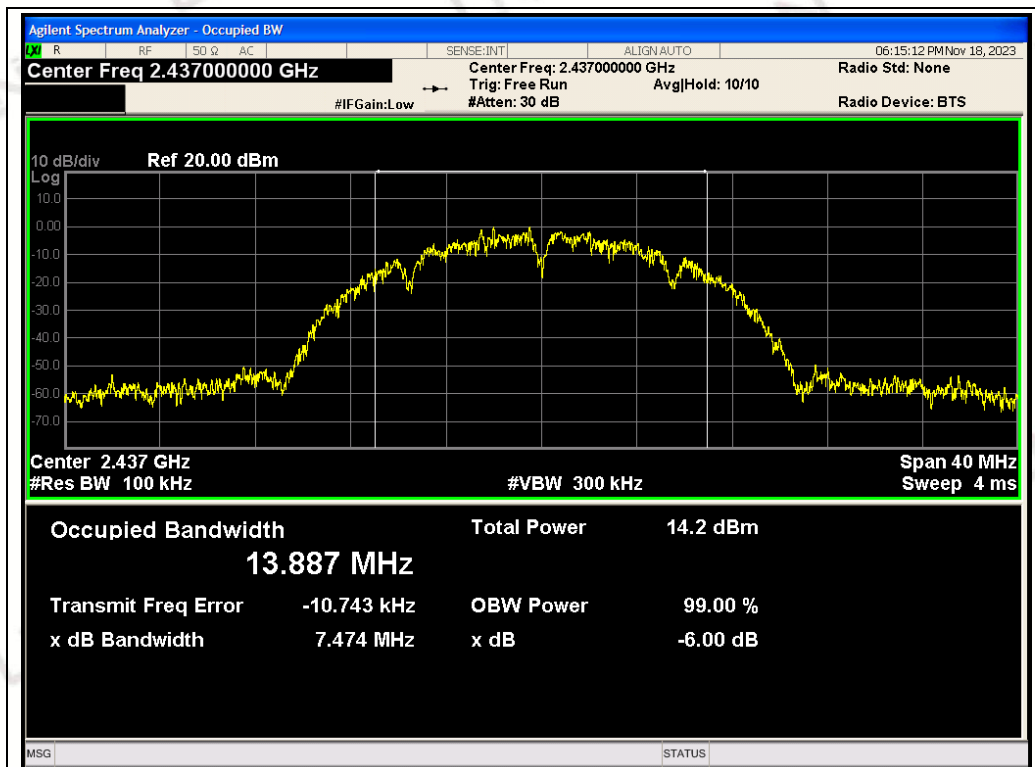
The same as described in section 2.7.

5.5 TEST RESULT

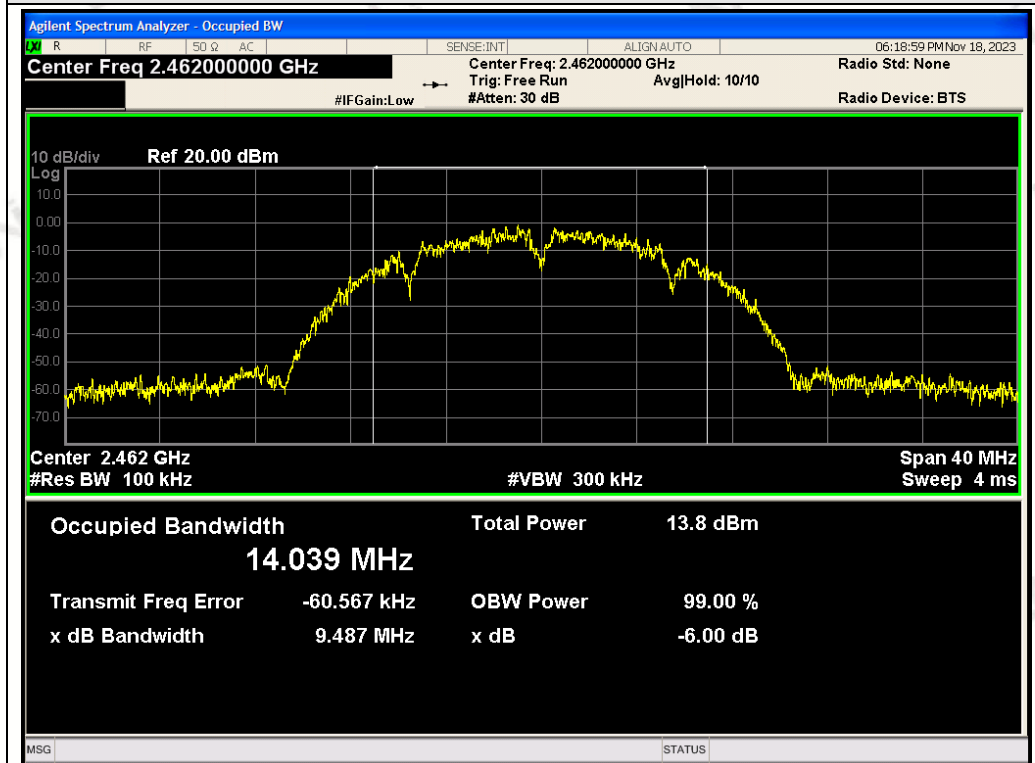
PASS

TX 802.11b Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	7.517	≥ 500	PASS
2437	7.474	≥ 500	PASS
2462	9.487	≥ 500	PASS



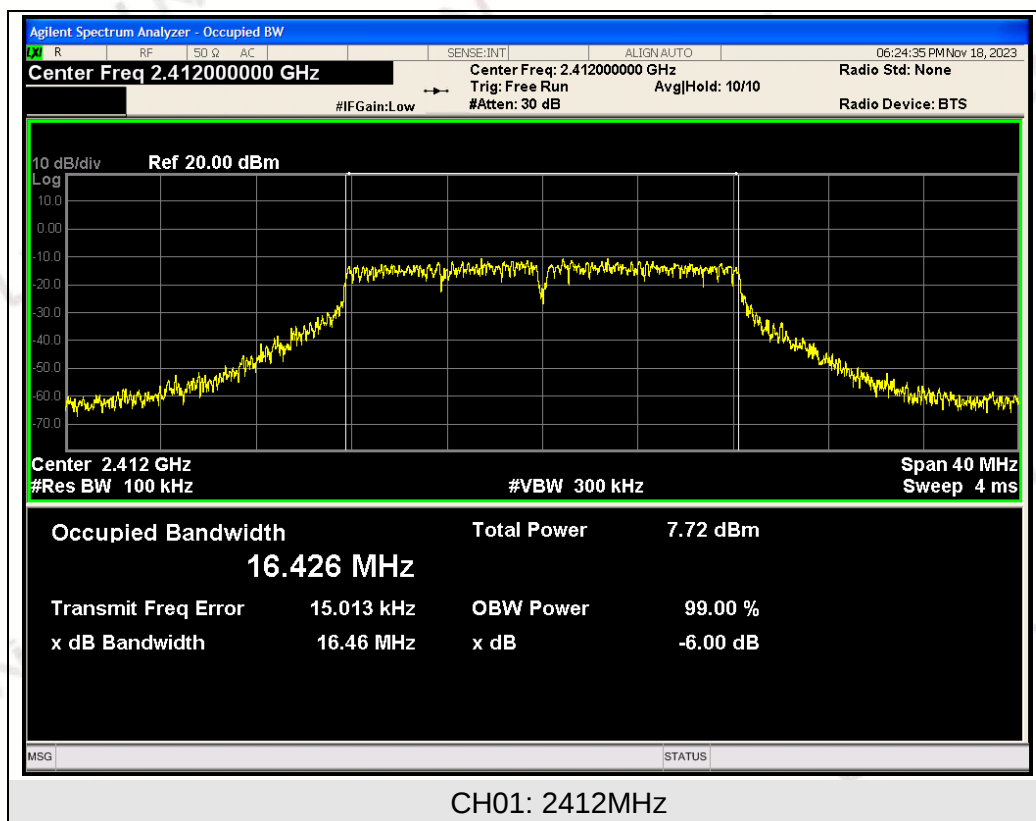


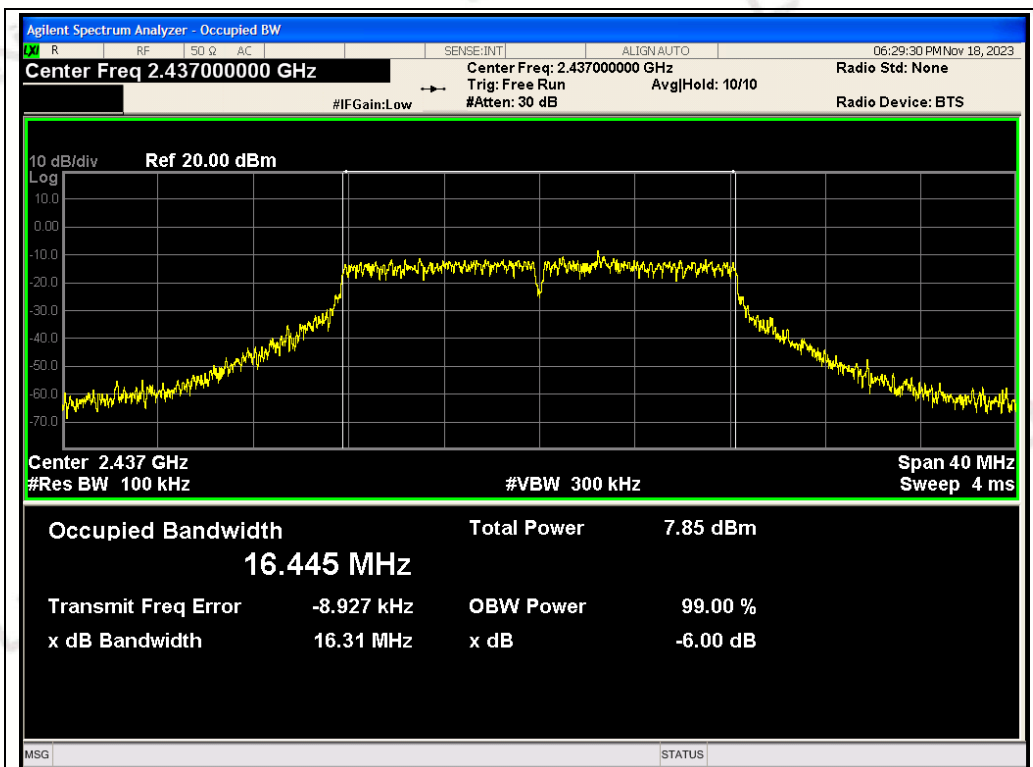
CH06: 2437MHz



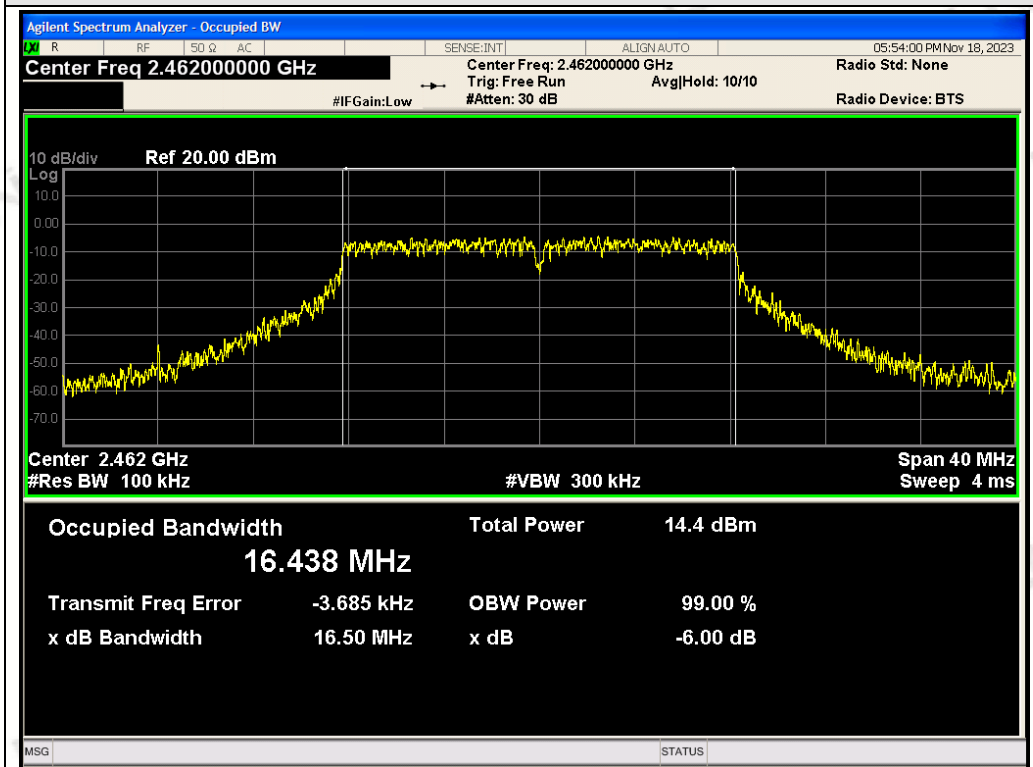
CH11: 2462MHz

TX 802.11g Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	16.46	≥ 500	PASS
2437	16.31	≥ 500	PASS
2462	16.50	≥ 500	PASS



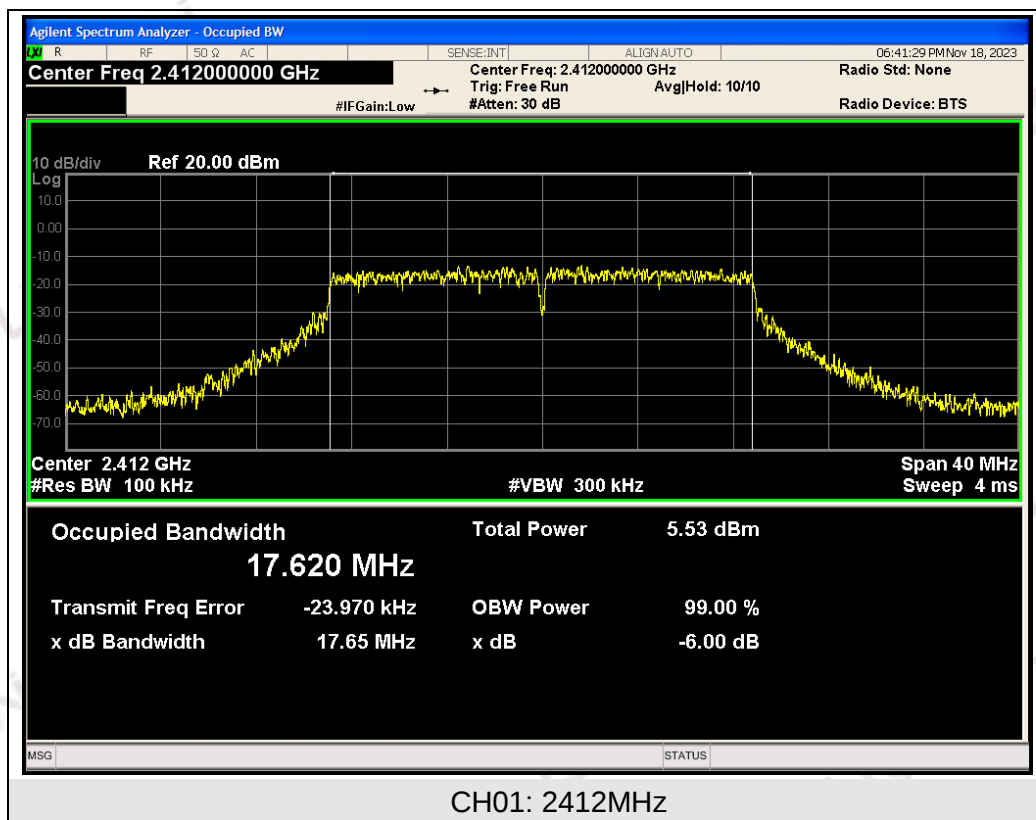


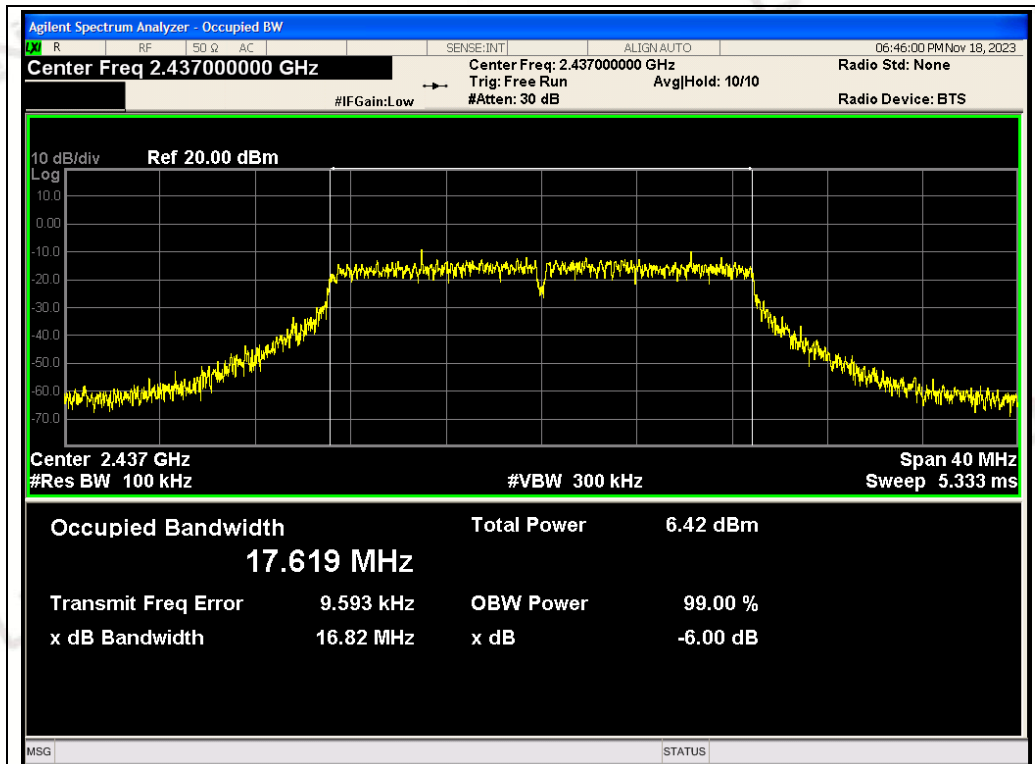
CH06: 2437MHz



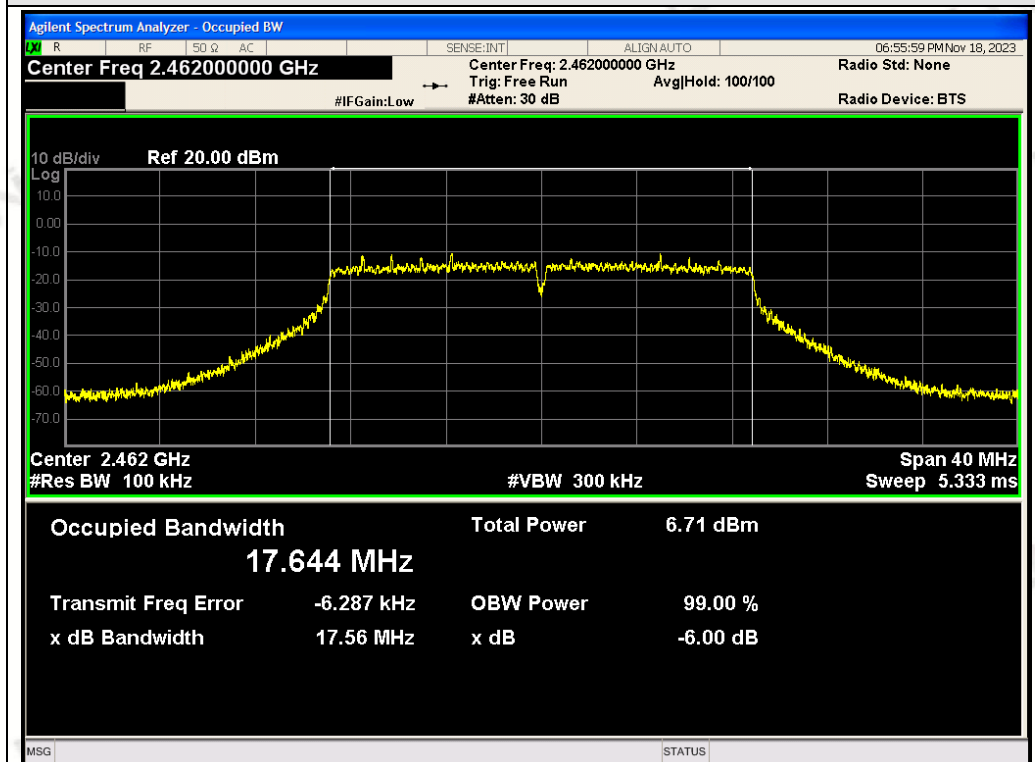
CH11: 2462MHz

TX 802.11n/HT20 Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (kHz)	Result
2412	17.65	≥ 500	PASS
2437	16.82	≥ 500	PASS
2462	17.56	≥ 500	PASS





CH06: 2437MHz



CH11: 2462MHz

6 POWER SPECTRAL DENSITY

6.1 TEST LIMIT

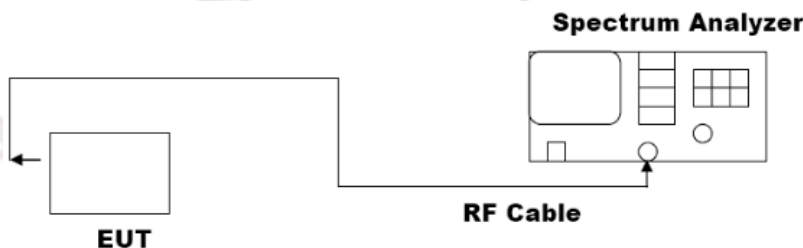
FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

- (1) Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2) Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3) Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPSD-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

6.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



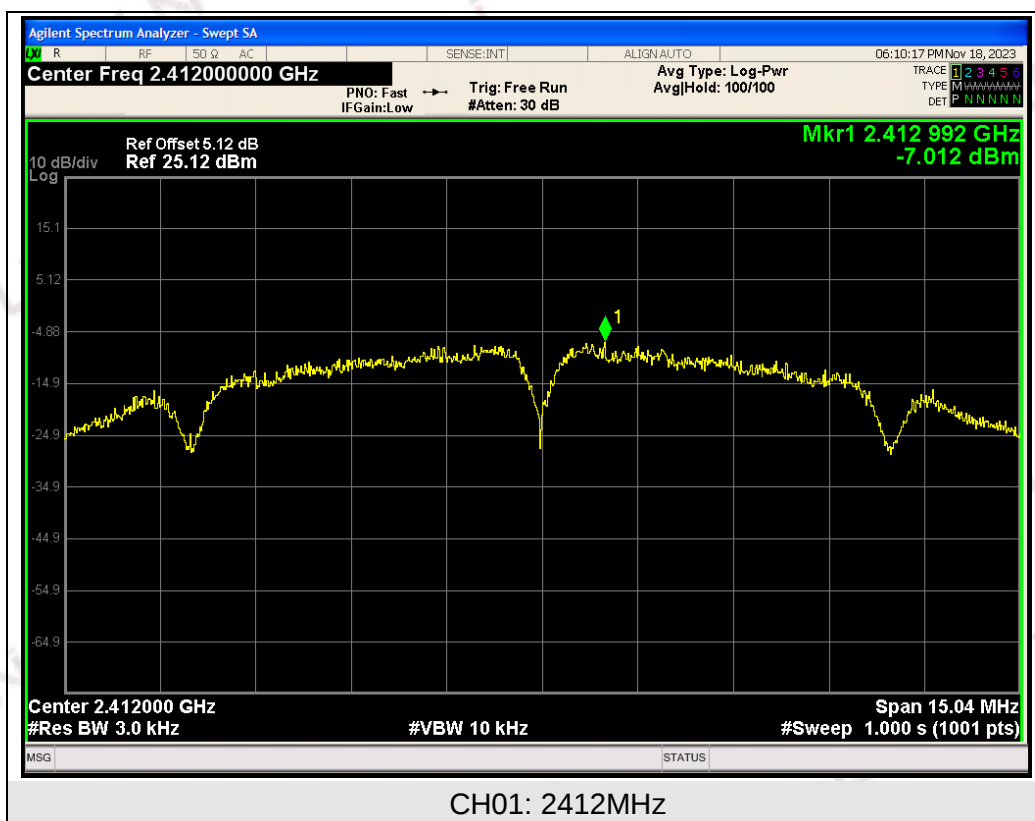
6.4 EQUIPMENT USED

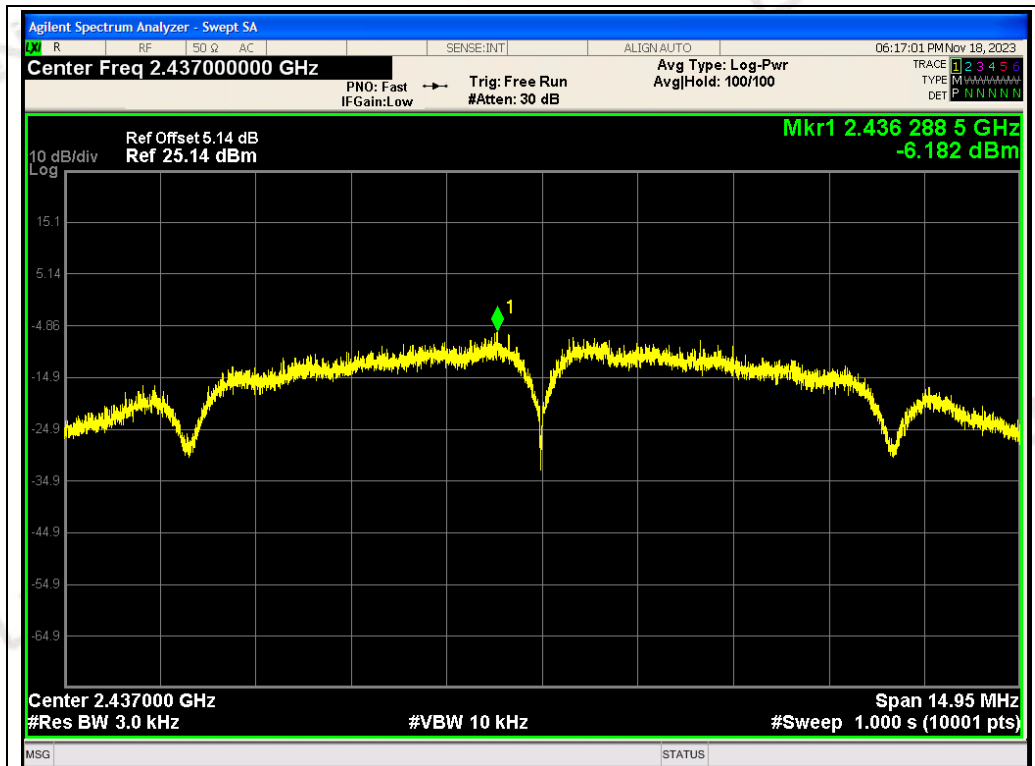
The same as described in section 2.7.

6.5 TEST RESULT

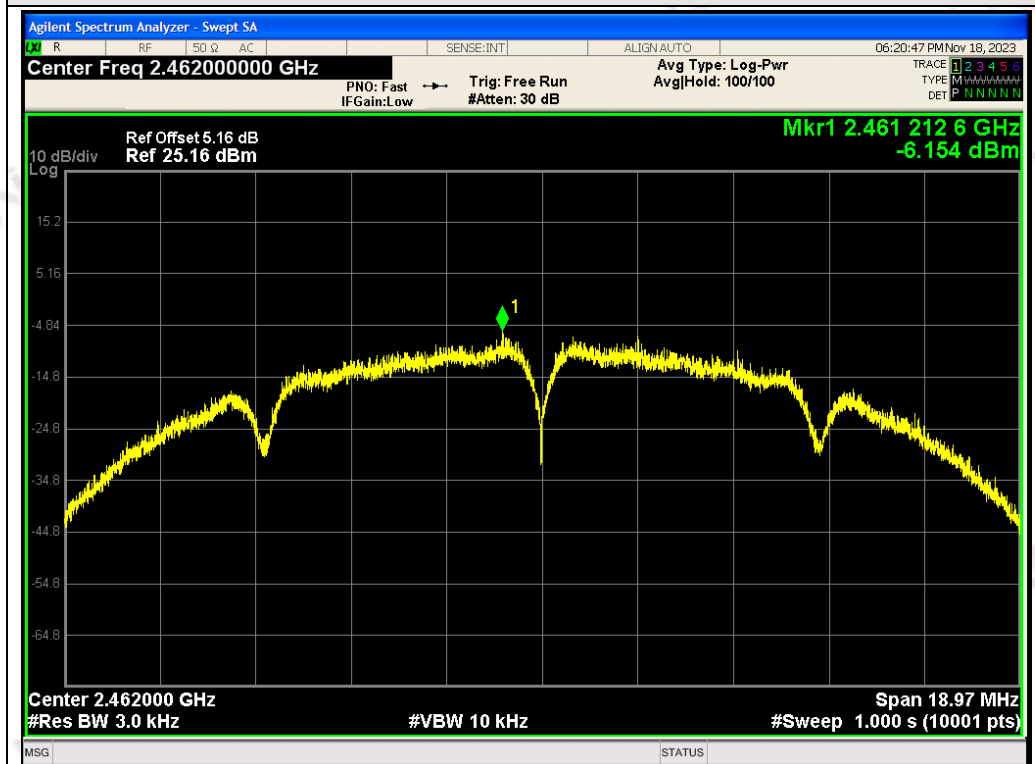
PASS

TX 802.11b Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-7.012	8	PASS
2437	-6.182	8	PASS
2462	-6.154	8	PASS



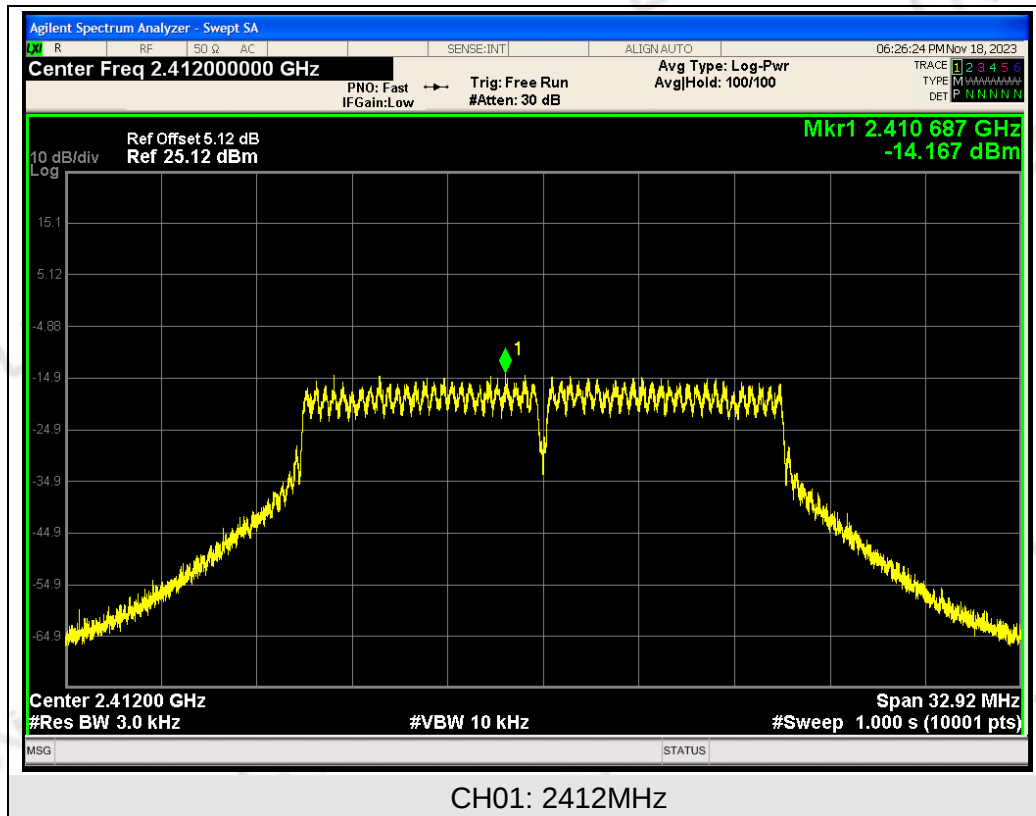


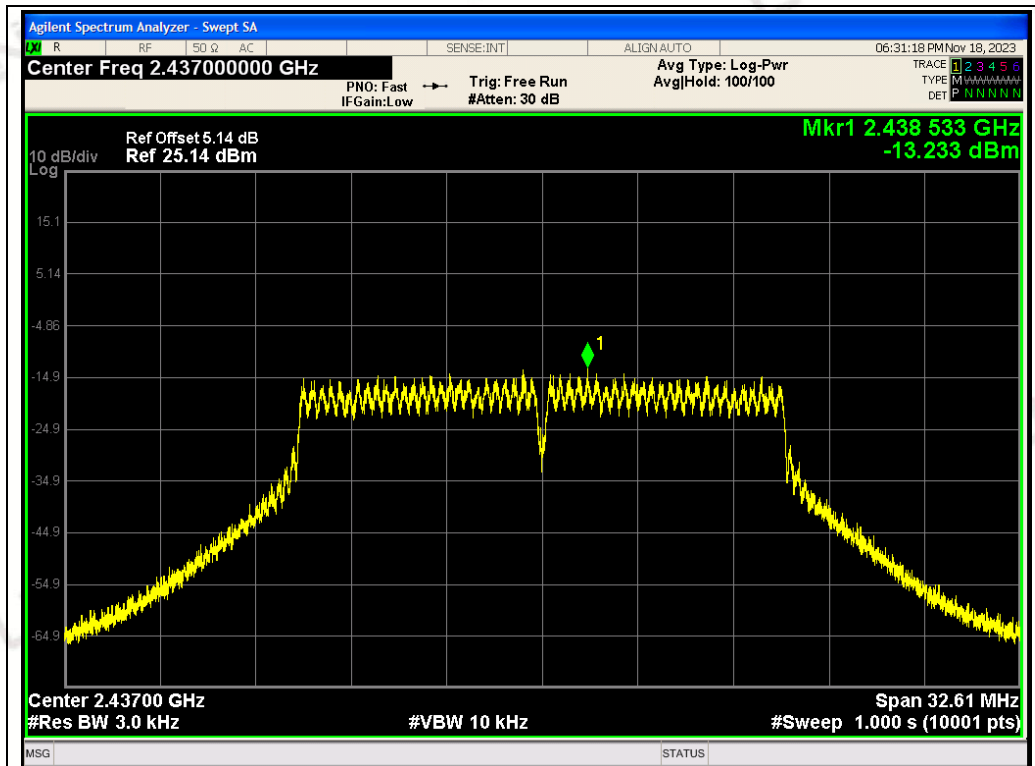
CH06: 2437MHz



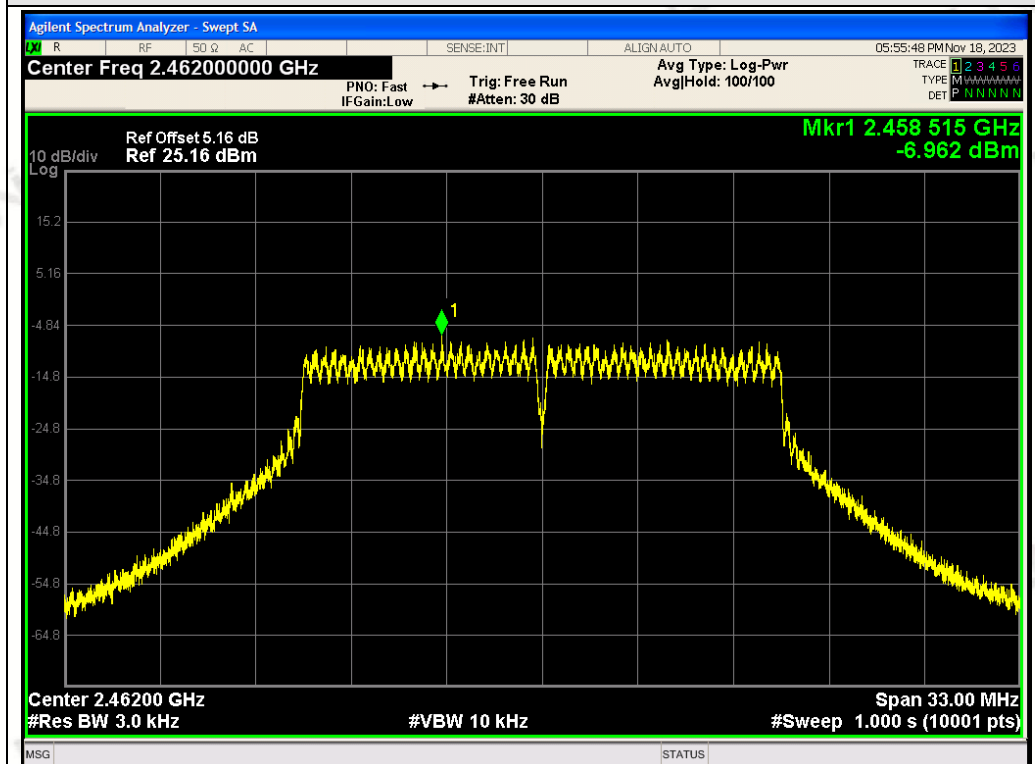
CH11: 2462MHz

TX 802.11g Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.167	8	PASS
2437	-13.233	8	PASS
2462	-6.962	8	PASS



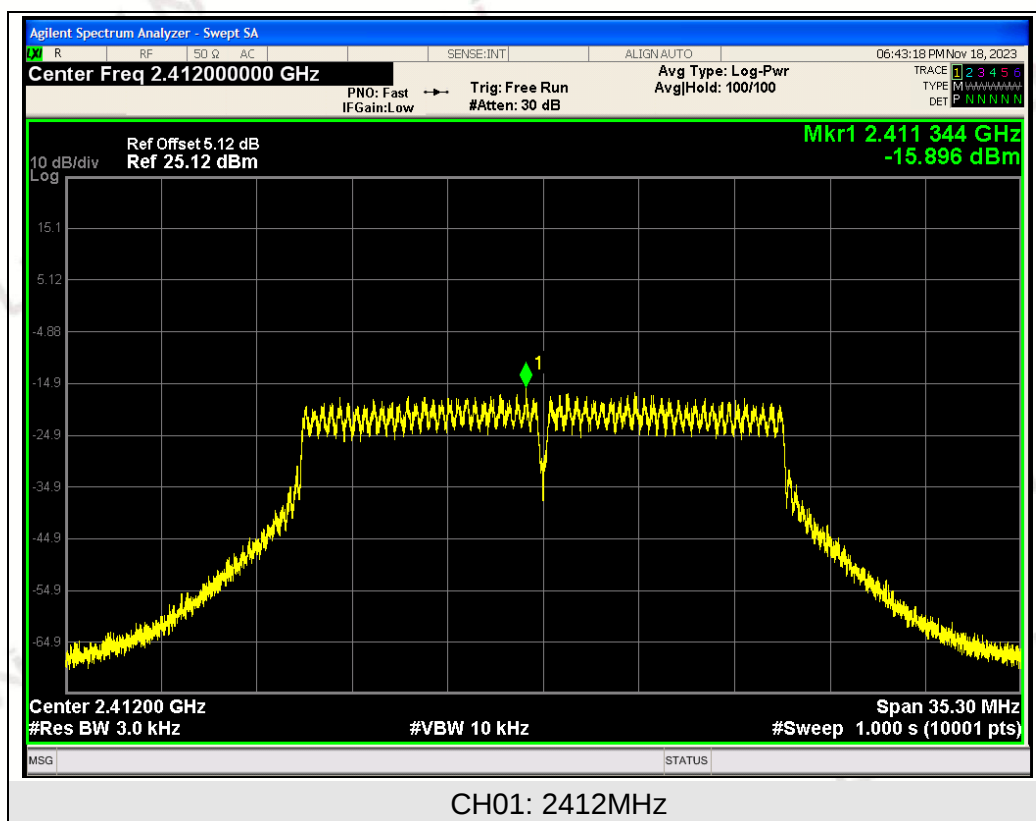


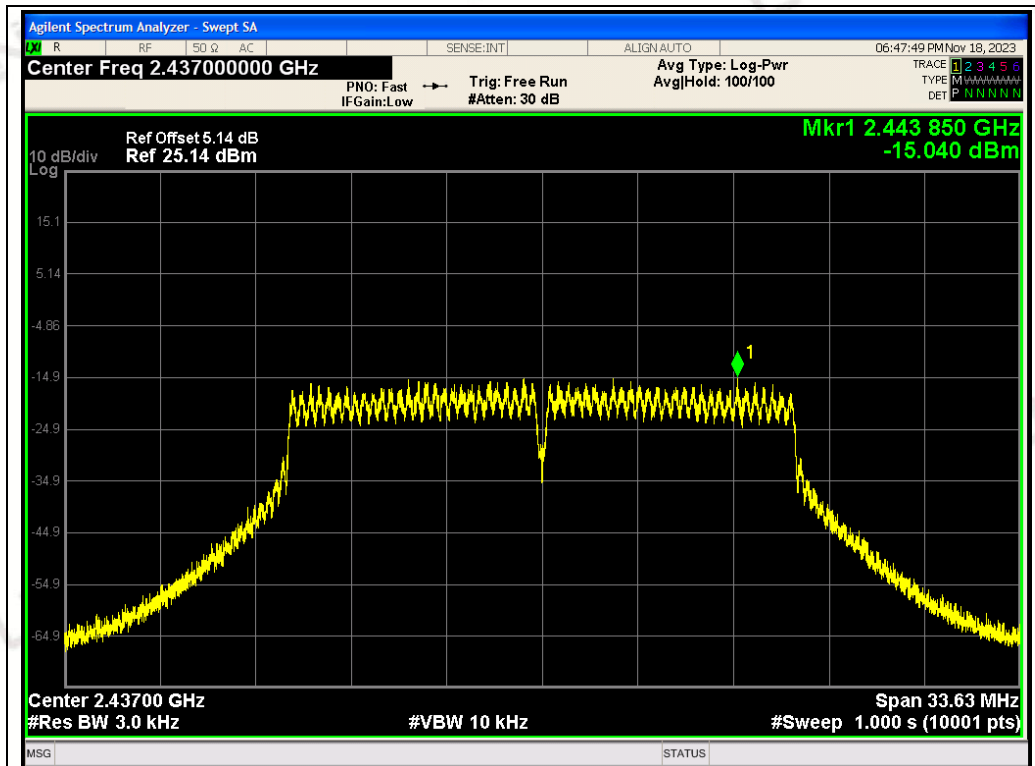
CH06: 2437MHz



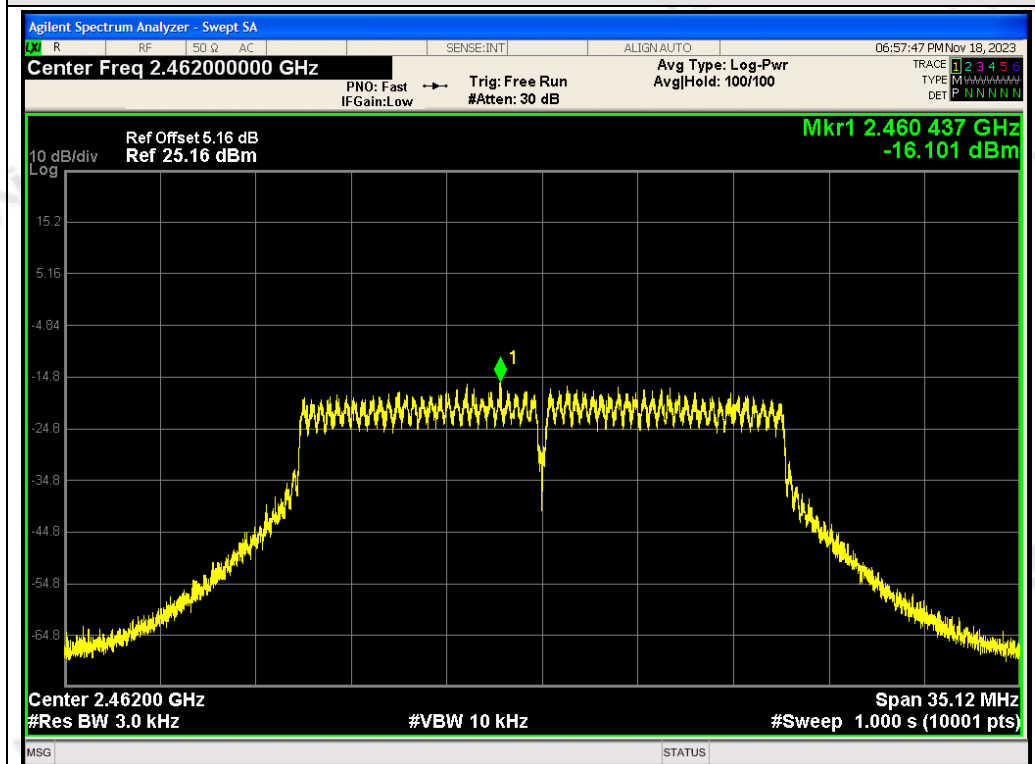
CH11: 2462MHz

TX 802.11n/HT20 Mode			
Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-15.896	8	PASS
2437	-15.040	8	PASS
2462	-16.101	8	PASS





CH06: 2437MHz



CH11: 2462MHz

7 PEAK OUTPUT POWER

7.1 TEST LIMIT

FCC Part15(15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

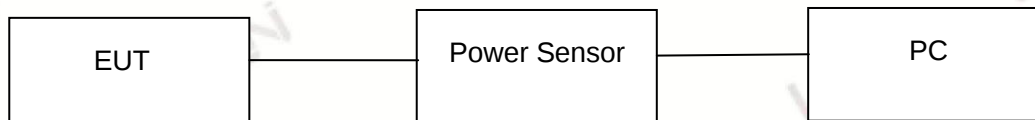
7.2 TEST PROCEDURE

For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

7.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



7.4 EQUIPMENT USED

The same as described in section 2.7.

7.5 TEST RESULT

PASS

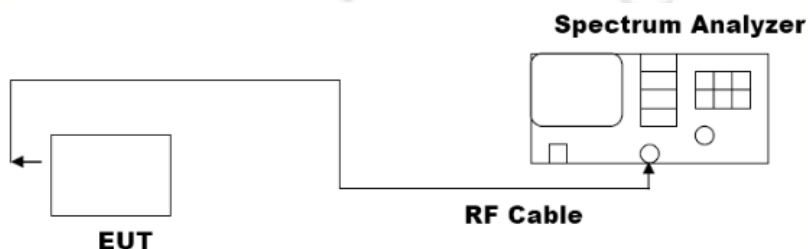
Test Mode	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
802.11b	2412	15.61	30
	2437	15.67	30
	2462	15.32	30
802.11g	2412	13.27	30
	2437	13.37	30
	2462	13.04	30
802.11n/HT20	2412	10.98	30
	2437	10.67	30
	2462	10.94	30

8 OUT OF BAND EMISSIONS

8.1 TEST 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.

8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



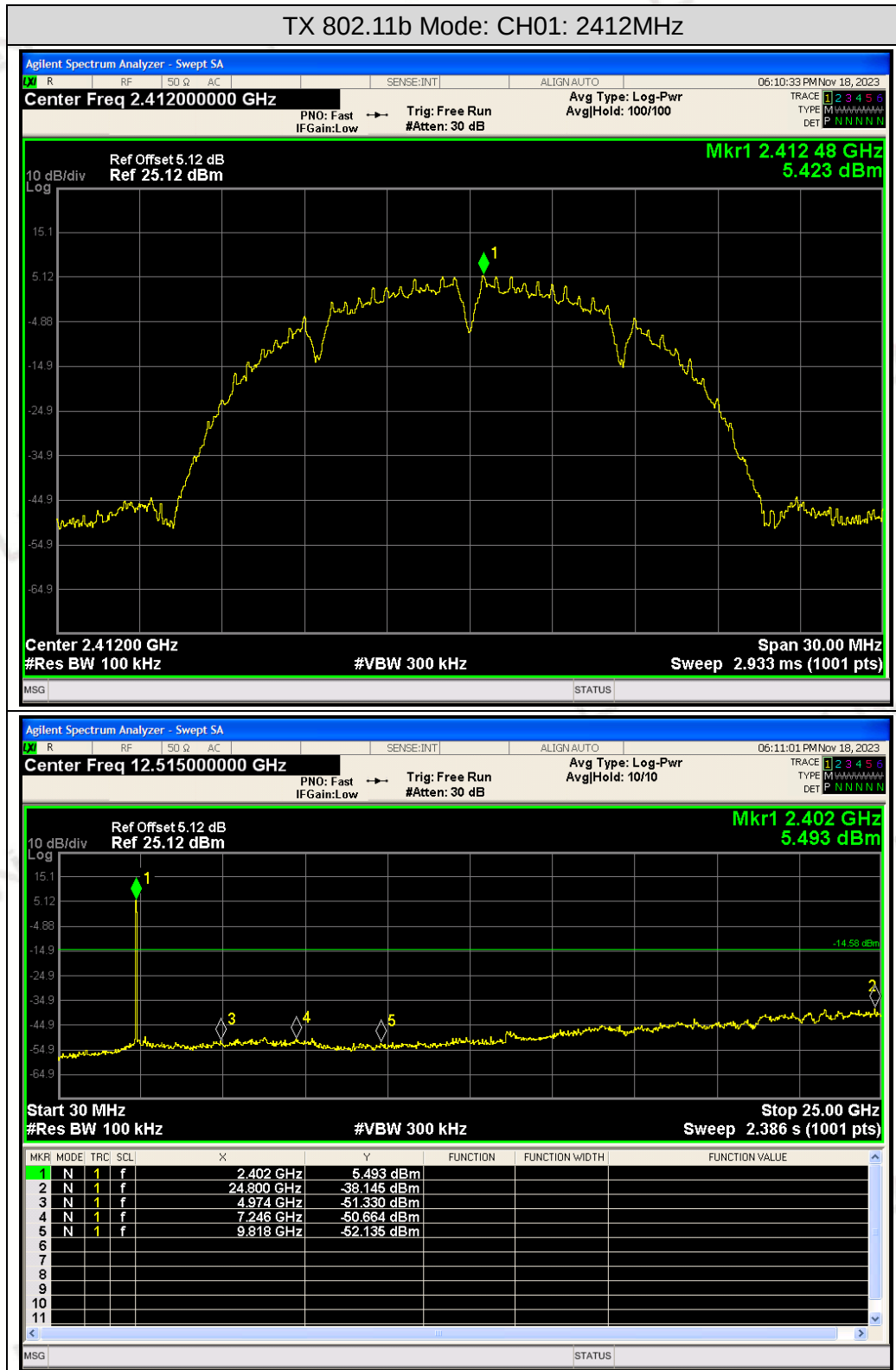
8.3 TEST PROCEDURE

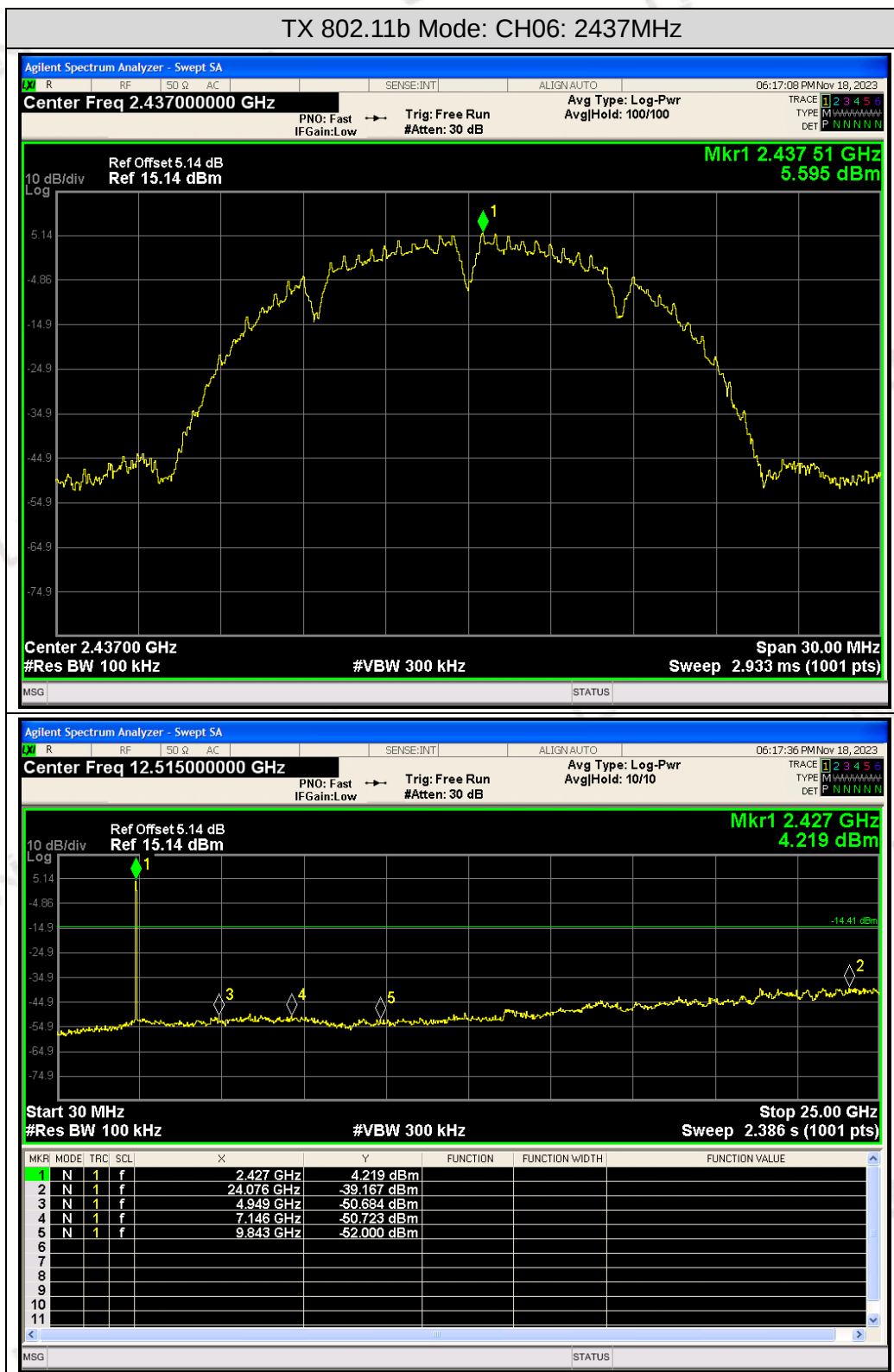
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as TX operation and connect directly to the spectrum analyzer.
3. Based on FCC Part15 C Section 15.247: RBW=100kHz, VBW=300kHz.
4. Set detected by the spectrum analyzer with peak detector.

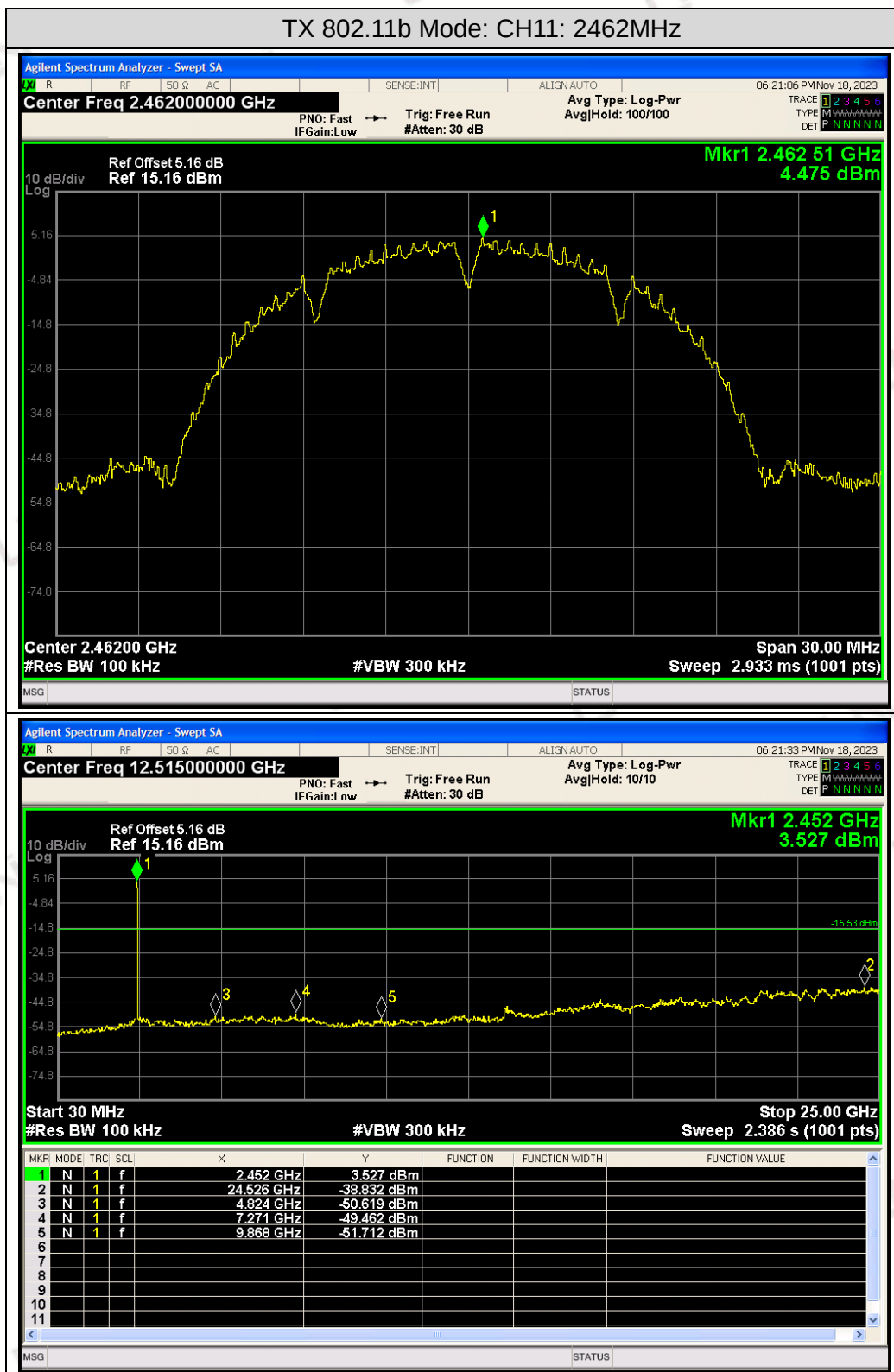
8.4 MEASUREMENT EQUIPMENT USED

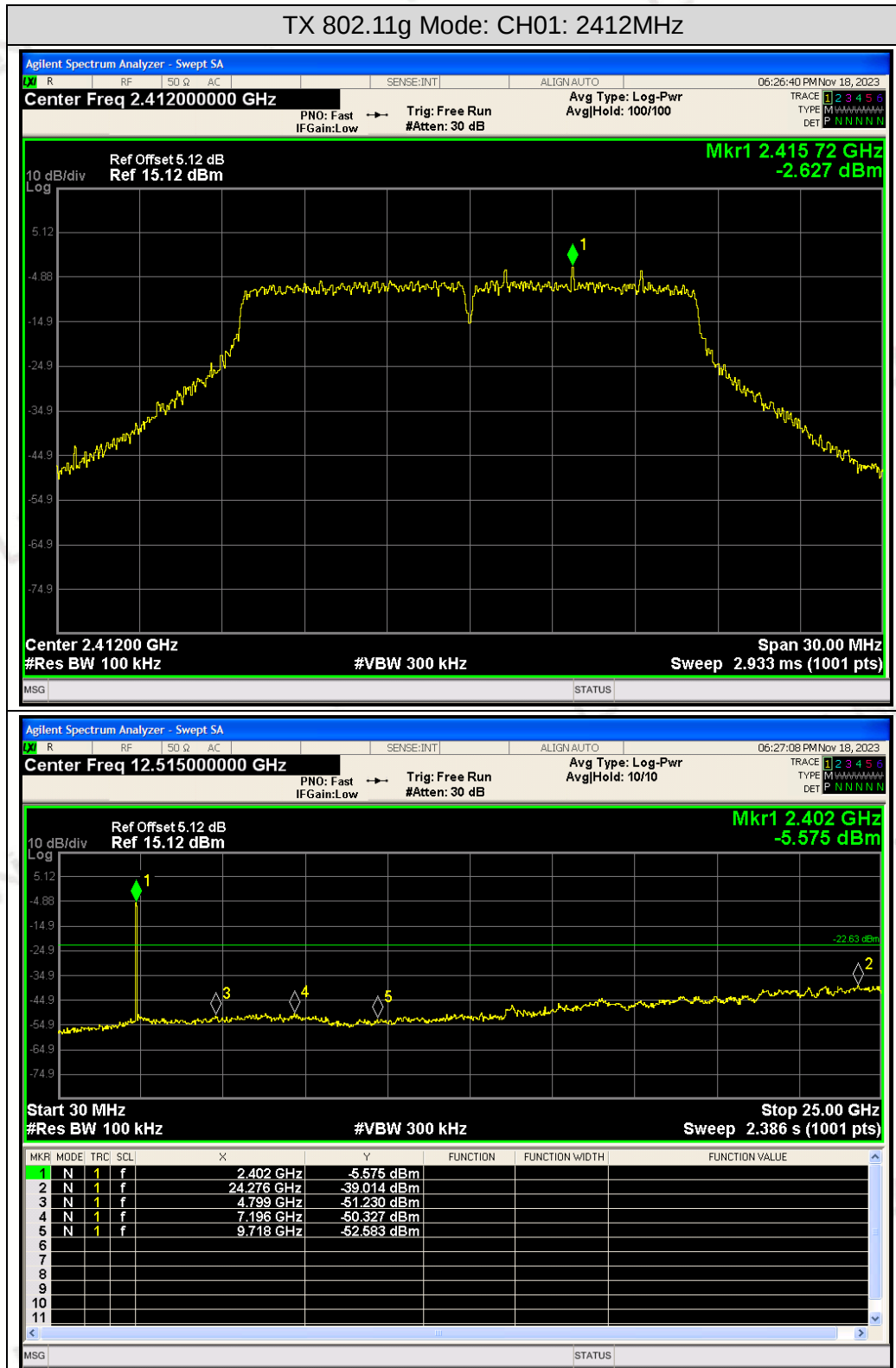
The same as described in section 2.7.

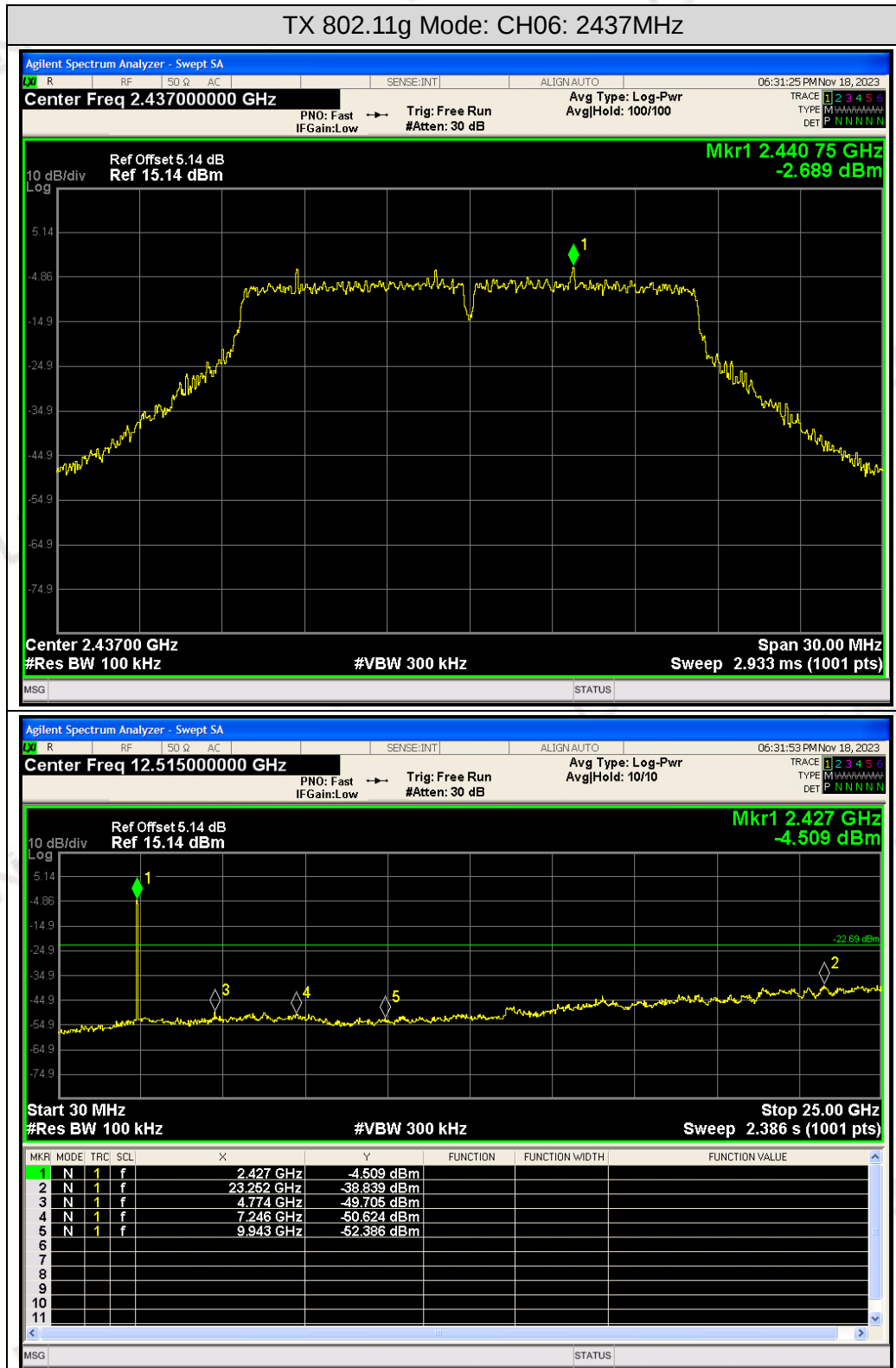
8.5 TEST RESULT

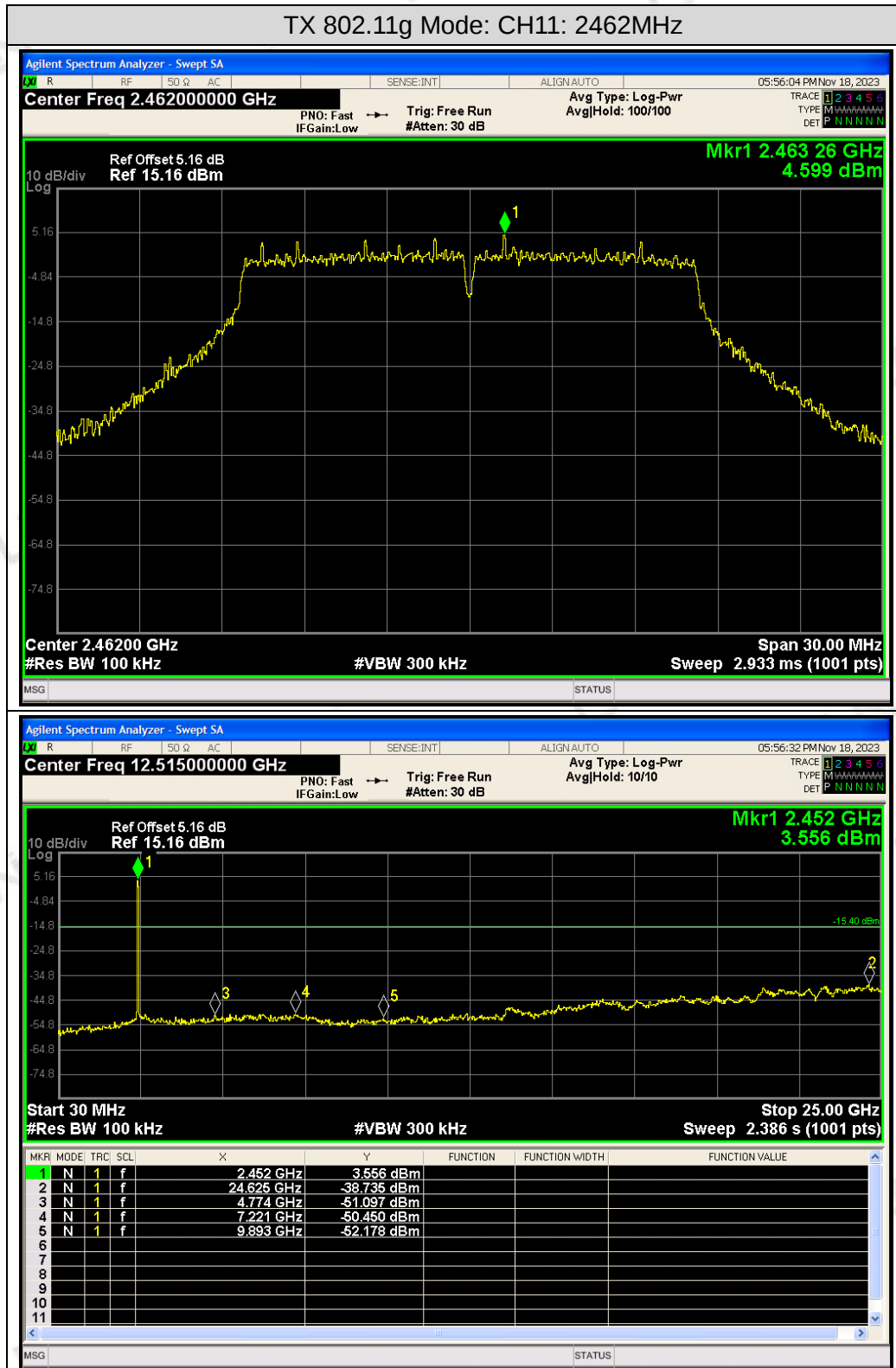


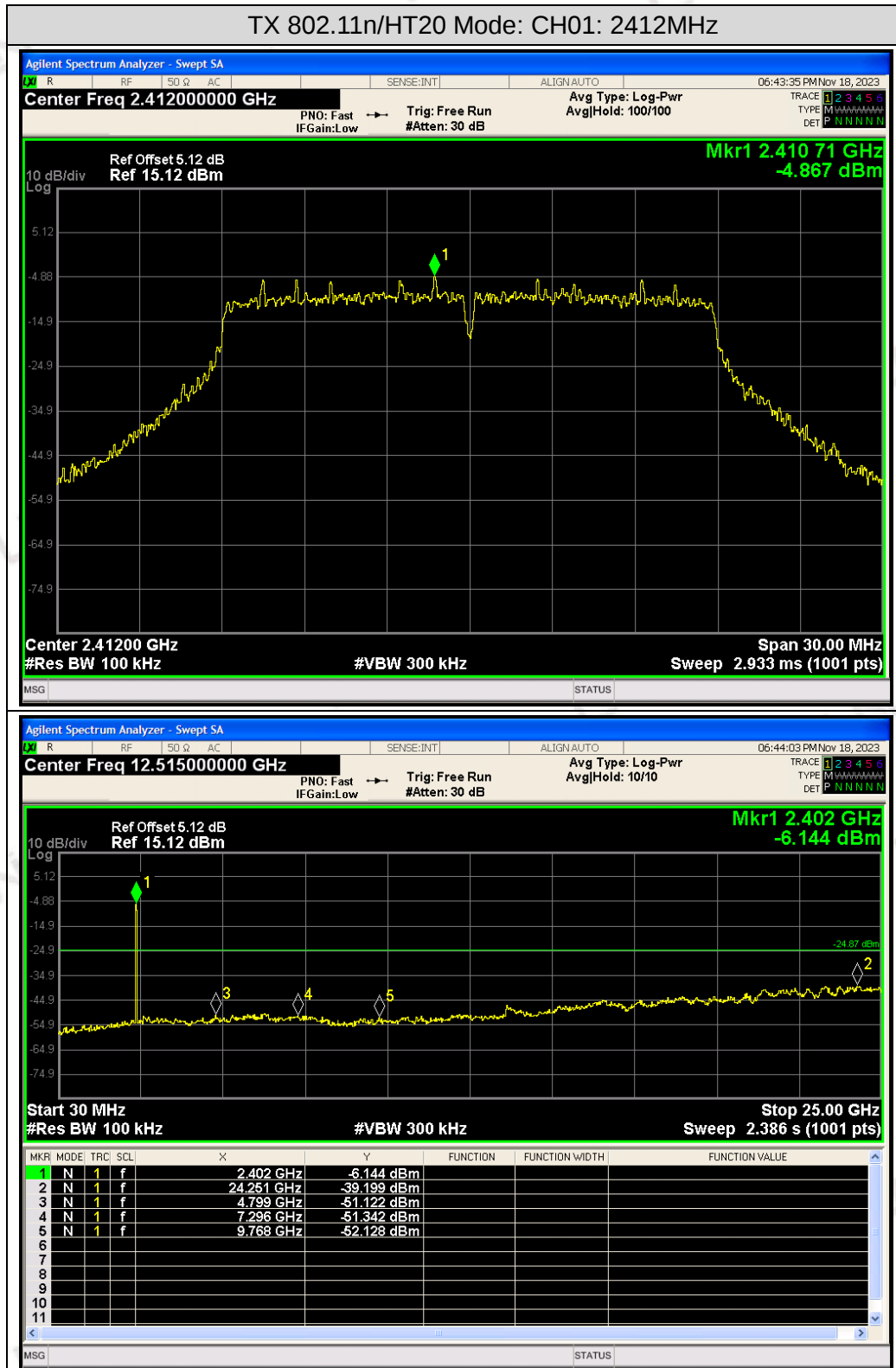


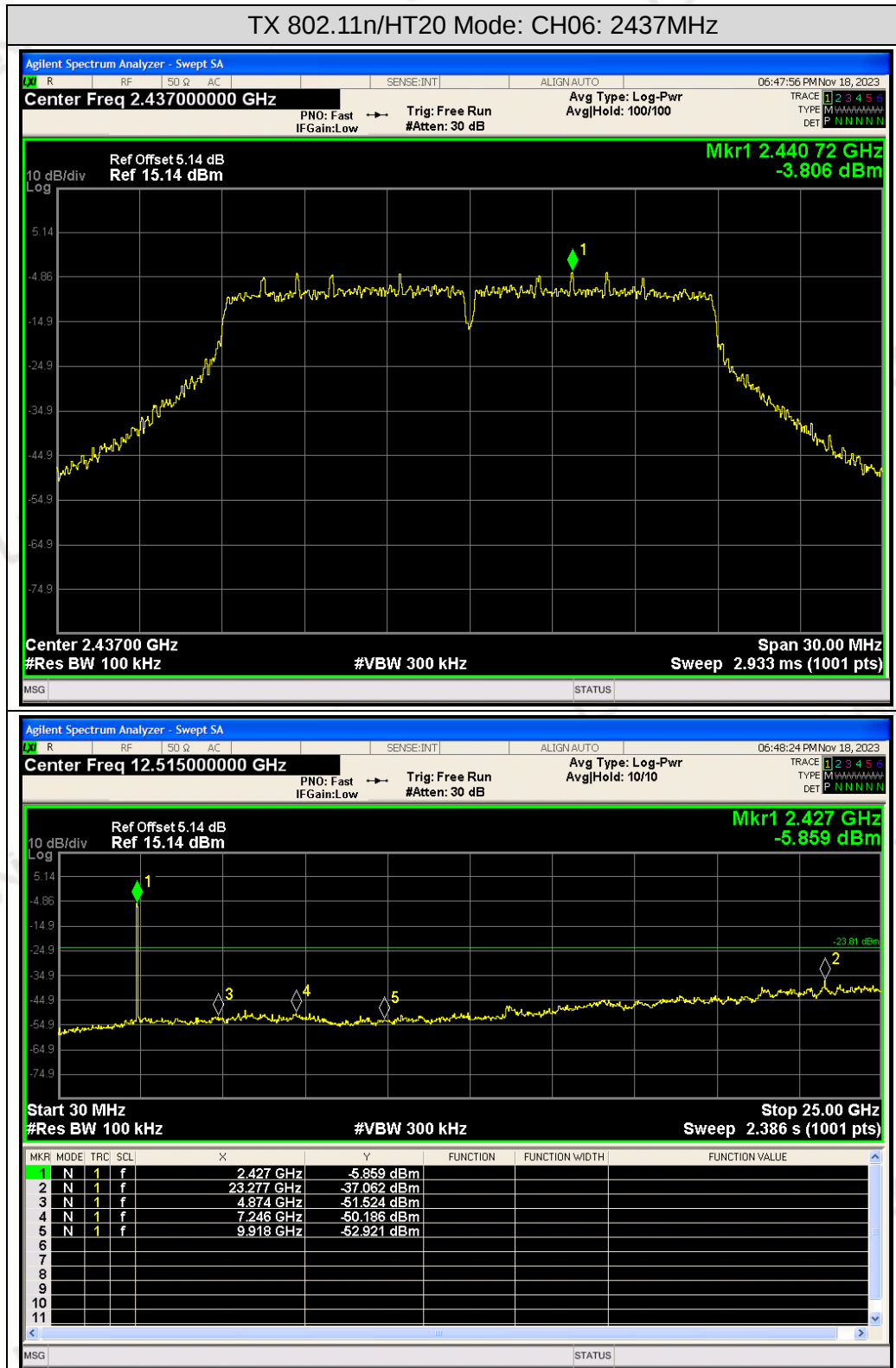


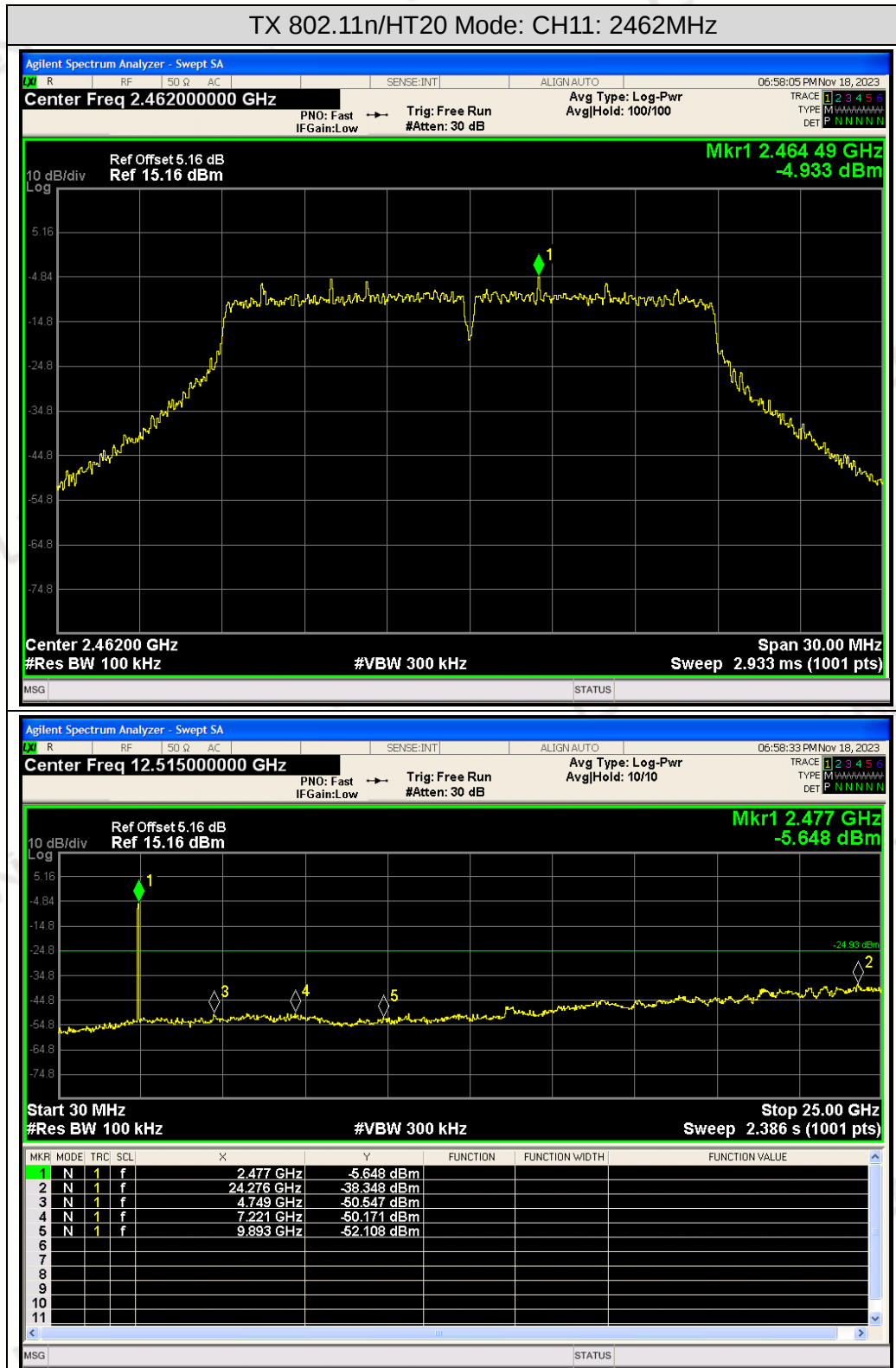












9 ANTENNA REQUIREMENT

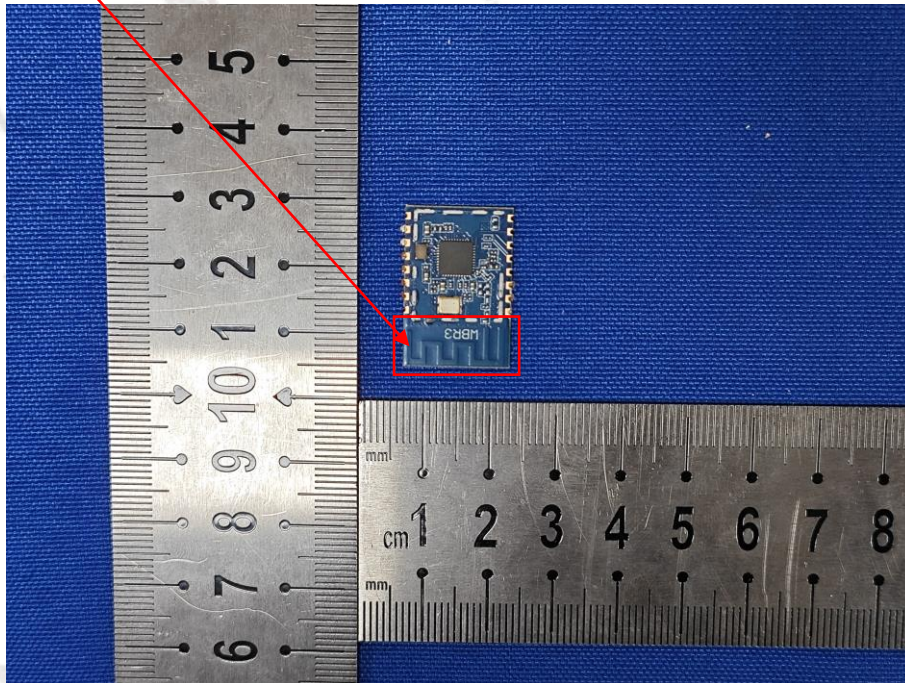
Standard Applicable:

For intentional device, according to FCC 47 CFR Section 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.

Antenna Connected Construction

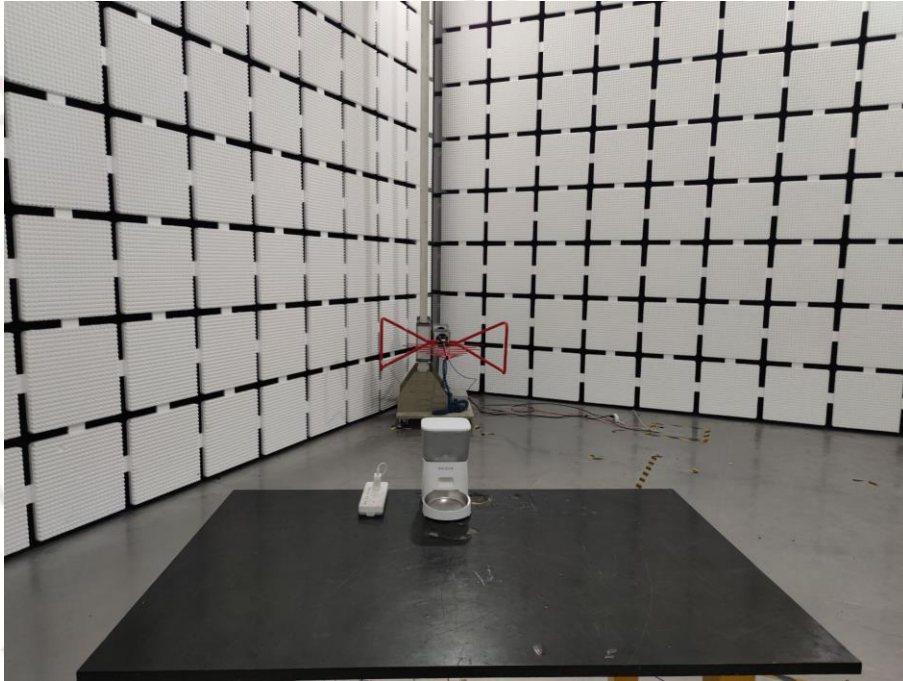
The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is 2.54dBi.

ANTENNA:



10 PHOTO OF TEST

RADIATED EMISSION



30MHz-1000MHz

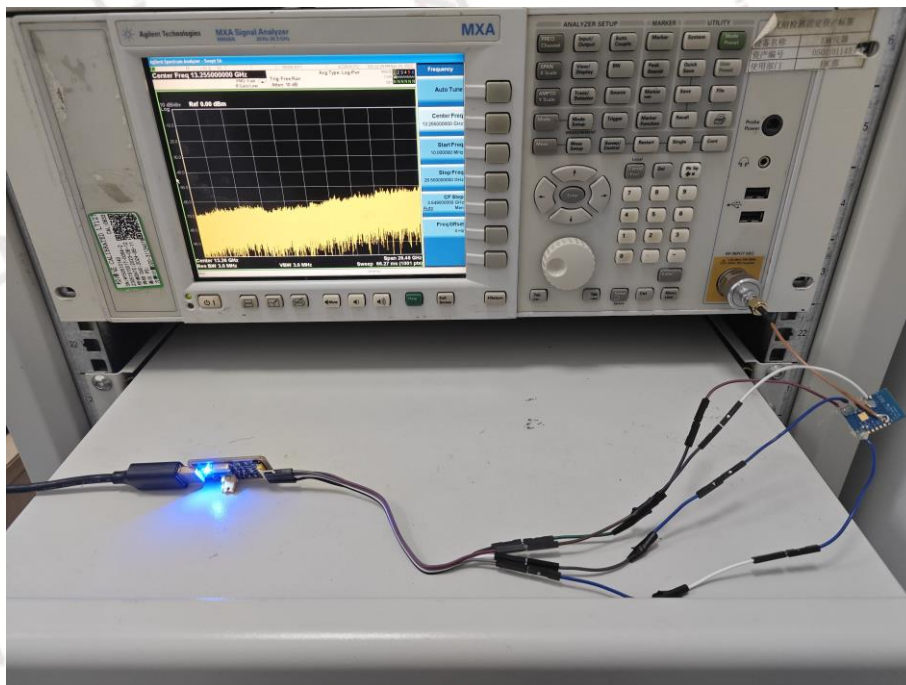


Above 1GHz

CONDUCTED EMISSION



RF CONDUCTED



End of Report