

TEST REPORT

Reference No...... : WTX25X09241819W
FCC ID..... : 2BSNX-CSN001
Applicant..... : Audible Cone Safety Products
Address..... : 24335 HWY 395 South, Canyon City, OR 97820
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : Cone Sensor
Model No...... : CSNRRENG001
Standards..... : FCC Part 15.247
Date of Receipt sample..... : 2025-09-08
Date of Test..... : 2025-09-08 to 2025-12-26
Date of Issue..... : 2025-12-26
Test Report Form No...... : WTX_Part 15_247W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

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Report version

Version No.	Date of issue	Description
Rev.00	2025-12-26	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Cone Sensor
Trade Name:	/
Model No.:	CSNRRENG001
Adding Model(s):	/
Rated Voltage:	Type-C Port:DC5V Battery:DC3.7V
Battery Capacity:	2000mAh
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	15.26dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	1.9dBi
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the FCC rules.

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, KDB 558074 D01 15.247 Meas Guidance v05r02.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.5 EUT Setup and Test Mode

The RF sample was used for the purpose of the measurements. All testing was performed under maximum output power conditions, and measured its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~75 %
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Type-C Cable	1.25	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Adapter	/	XY18W-1375-QC3.0	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	0.57dB
Occupied Bandwidth	Conducted	0.015MHz
Power Spectral Density	Conducted	1.8dB
Conducted Spurious Emission	Conducted	2.17dB
Conducted Emissions	Conducted	9-150kHz, 3.74dB
		0.15-30MHz, 3.34dB
Transmitter Spurious Emissions	Radiated	30-200MHz, 4.52dB
		0.2-1GHz 5.56dB
		1-6GHz, 3.84dB
		6-18GHz, 3.92dB

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2025-02-23	2026-02-22
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2025-02-23	2026-02-22
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2025-02-23	2026-02-22
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2025-02-23	2026-02-22
WTXE1051A 1001	Power Sensor	Agilent	U2021XA	MY551600 07	2025-02-23	2026-02-22
WTXE1051A 1002	Power Sensor	Agilent	U2021XA	MY542400 01	2025-02-23	2026-02-22
WTXW1105A 1010	Spectrum Analyzer	KEYSIGHT	N9020A	MY512856 77	2025-02-23	2026-02-22
WTXE1105A 1008	RF Control Unit	Tonscend	JS0806-2	24F80620 870	2025-02-23	2026-02-22
WTXE1103A 1003	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
WTXE1003A 1-005	Coaxial Cable	/	0M4RFC	/	2025-02-23	2026-02-22
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2025-02-23	2026-02-22
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2025-02-23	2026-02-22
WTXE1104A 1032-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1032-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1032-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☐ Chamber A: Above 1GHz						

WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2025-02-23	2026-02-22
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1065A 1001	Amplifier	C&D	PAP-1.0G18	14918	2025-02-23	2026-02-22
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2025-02-23	2026-02-22
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1033-1	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-2	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104A 1033-3	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A10457	2025-02-23	2026-02-22
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2025-02-23	2026-02-22
WTXE1104A 1031-1	Coaxial Cable	/	1.5MRFC-LWB3	/	2025-02-23	2026-02-22
WTXE1104A 1031-2	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1031-3	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1007A 1002	Amplifier	HP	8447F	2944A03869	2025-02-23	2026-02-22

WTXE1104A 1034-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1034-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2025-02-23	2026-02-22
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104A 1035-1	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-2	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104A 1035-3	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2024-12-08	2025-12-07
					2025-11-25	2026-11-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2025-02-23	2026-02-22
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2025-02-23	2026-02-22
WTXE1104A 1036	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104A 1038	Coaxial Cable	/	6MRFC-DP	/	2025-02-23	2026-02-22
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2025-02-23	2026-02-22
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2025-02-23	2026-02-22
WTXE1104A 1037	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)
EMI Test Software (Conducted Emission Room 1#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3
EMI Test Software (Conducted Emission Room 2#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3
RF Test System	Tonscend	JS1120-3	V3.5.39

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 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.

3.2 Evaluation Information

This product has a PCB antenna, fulfill the requirement of this section.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

4.4 Summary of Test Results/Plots

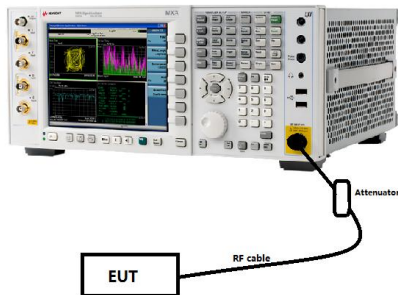
Please refer to Appendix C

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2020 Subclause 11.8.1, the test method of DTS Bandwidth as below:

Option 1:

The steps for the first option are as follows:

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB downamplitude” value, then it shall be as close as possible to this value.

Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in ANSI C63.10-2020 Subclause 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB

5.4 Summary of Test Results/Plots

Please refer to Appendix A

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

The EUT was directly connected to the Power meter.

6.4 Summary of Test Results/Plots

Please refer to Appendix B

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

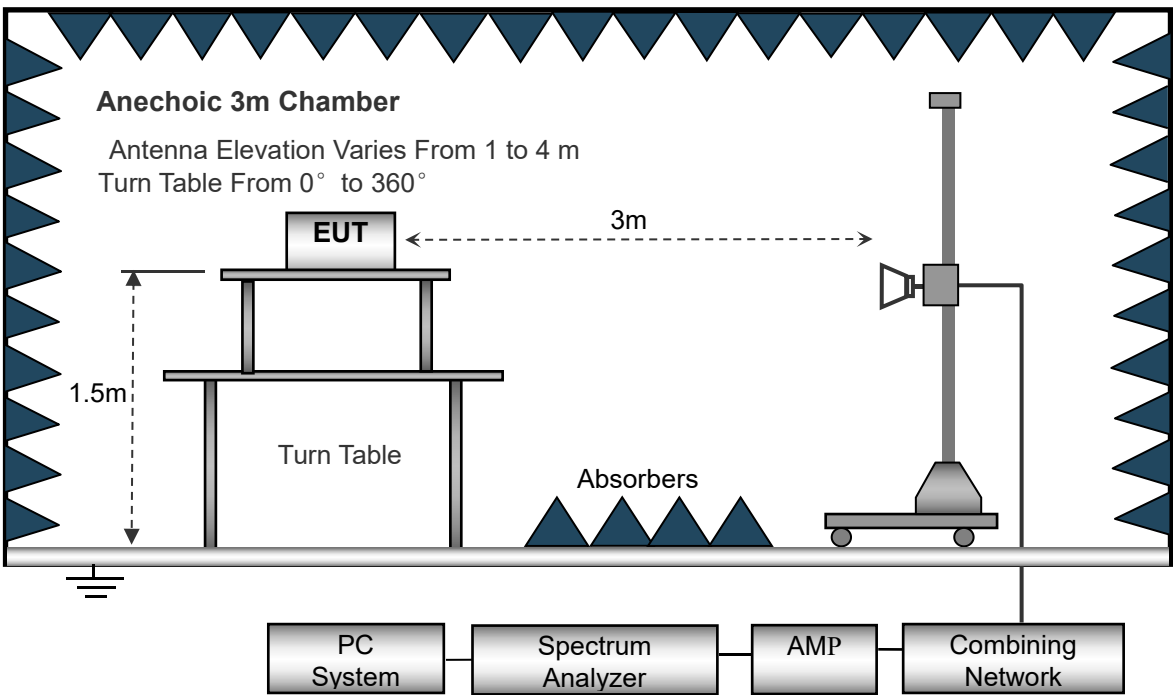
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10kHz,	RBW=120kHz,	RBW=1MHz,
VBW =30kHz	VBW=300kHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

7.3 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

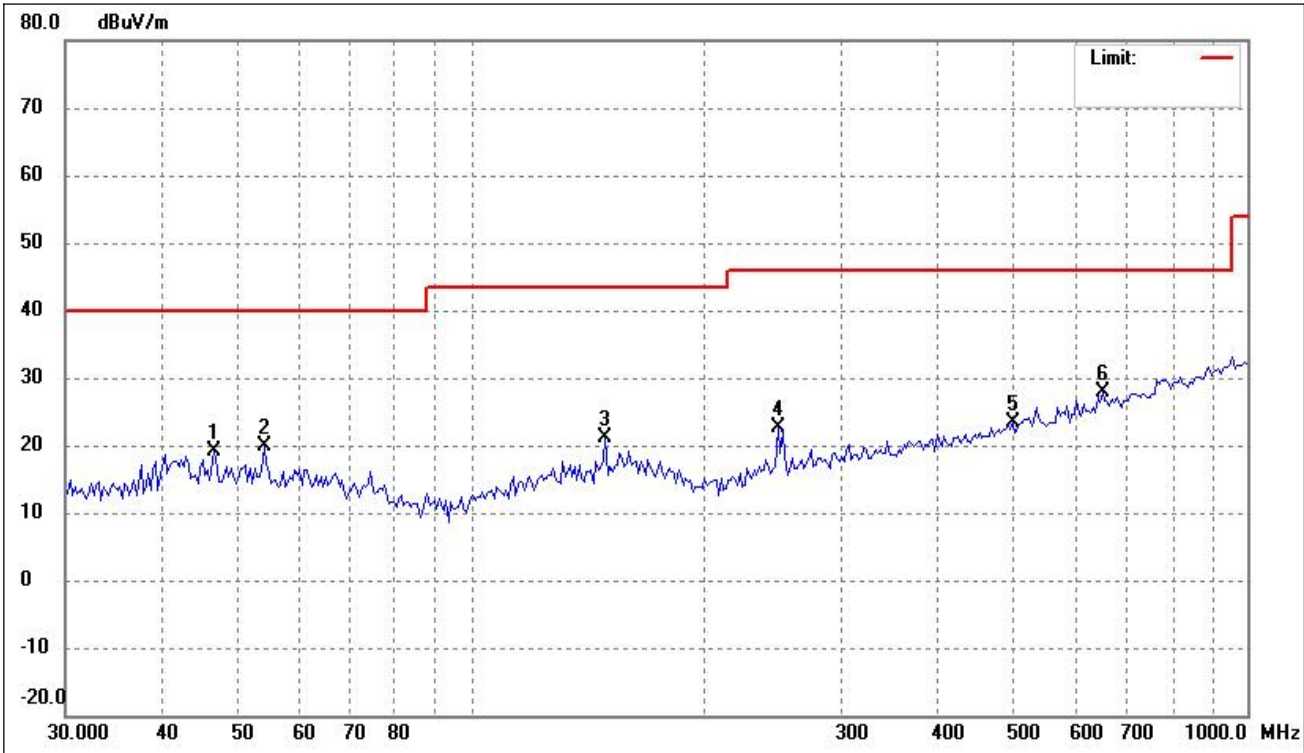
7.4 Summary of Test Results/Plots

Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b_11Mbps) is recorded in this report.

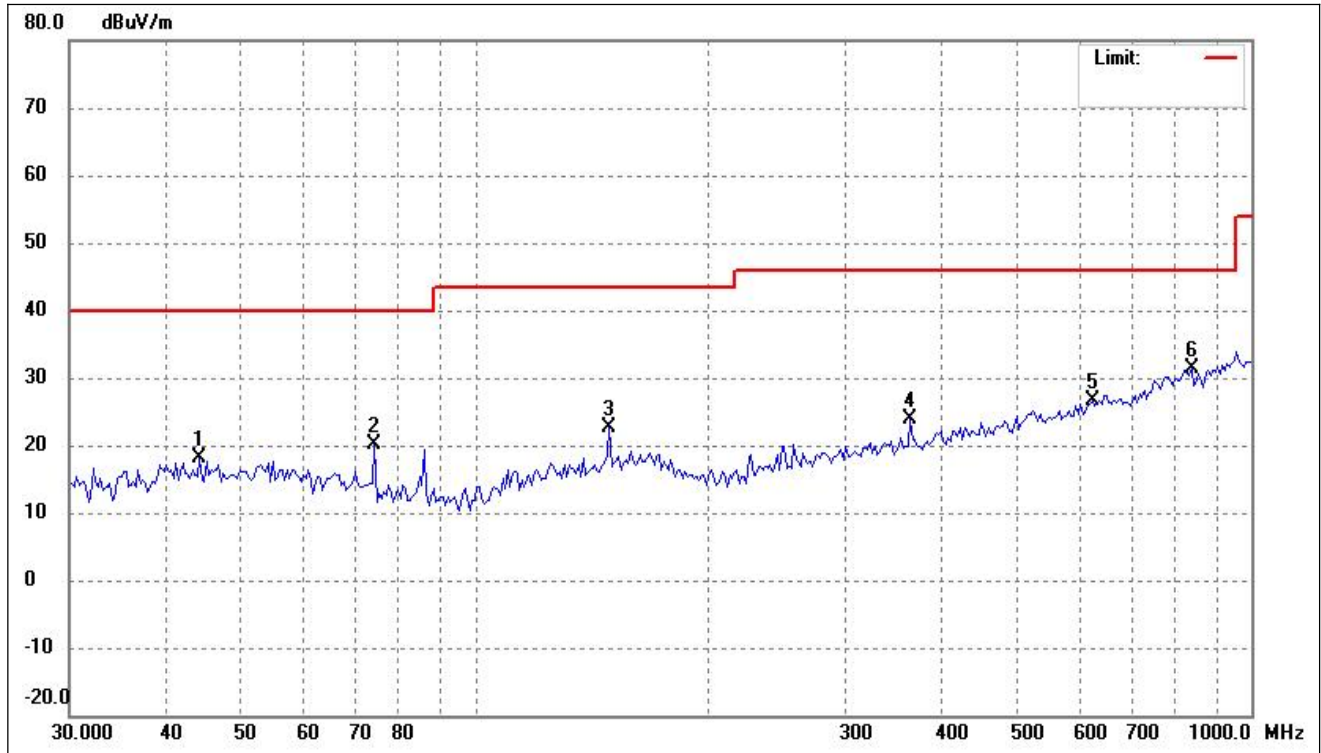
➤ Spurious Emissions Below 1GHz

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal



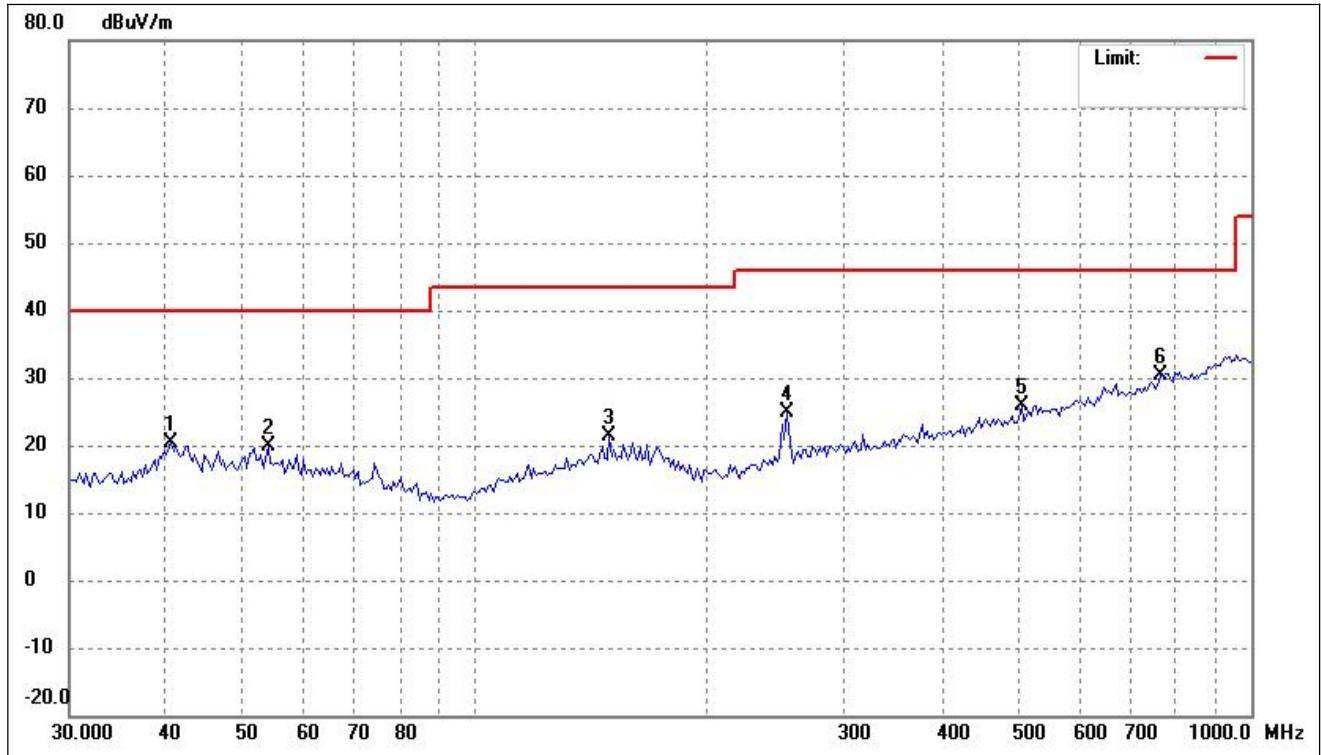
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	46.7077	28.23	-9.01	19.22	40.00	-20.78	-	-	peak
2	54.1349	28.90	-9.14	19.76	40.00	-20.24	-	-	peak
3	148.9175	30.03	-8.91	21.12	43.50	-22.38	-	-	peak
4	248.7319	32.20	-9.64	22.56	46.00	-23.44	-	-	peak
5	498.7303	27.77	-4.38	23.39	46.00	-22.61	-	-	peak
6	651.3831	29.10	-1.33	27.77	46.00	-18.23	-	-	peak

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical



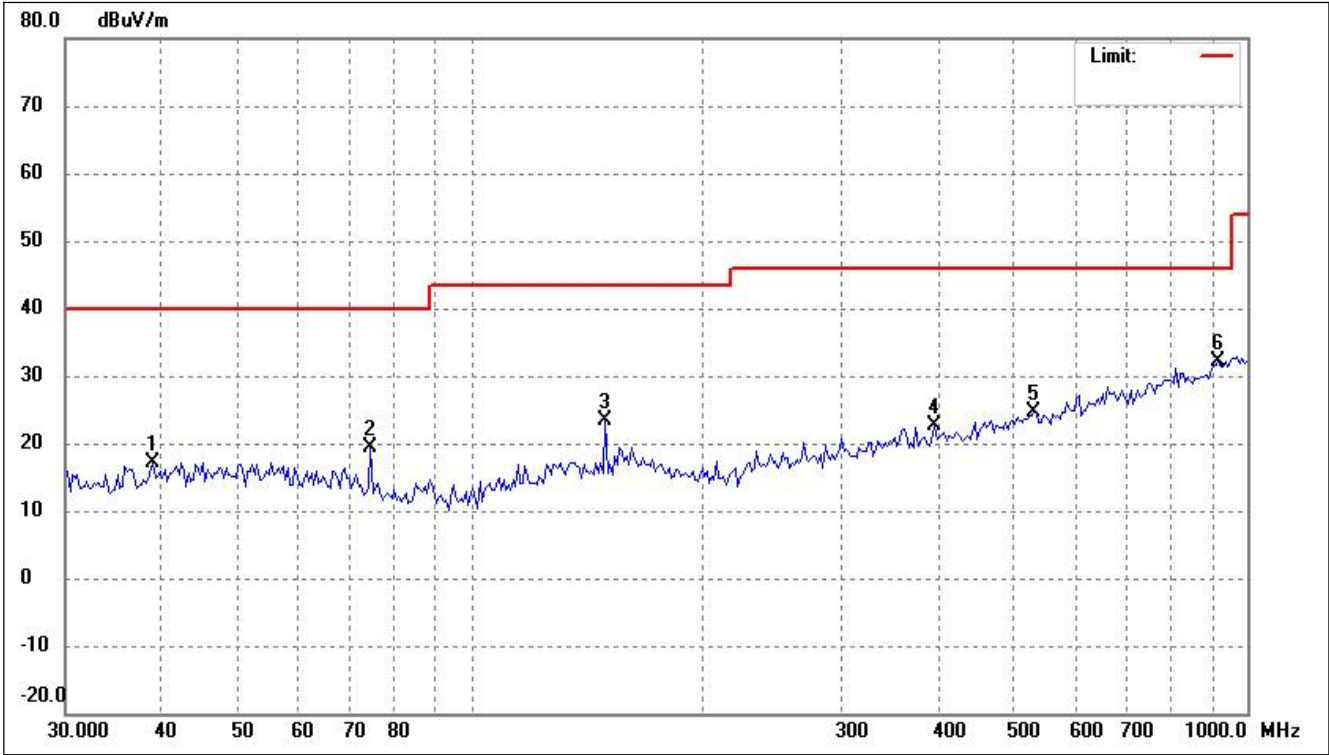
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	44.1544	27.23	-9.13	18.10	40.00	-21.90	-	-	peak
2	74.2696	32.14	-11.92	20.22	40.00	-19.78	-	-	peak
3	148.9175	31.59	-8.91	22.68	43.50	-20.82	-	-	peak
4	363.5231	30.77	-6.79	23.98	46.00	-22.02	-	-	peak
5	624.4897	28.87	-2.14	26.73	46.00	-19.27	-	-	peak
6	838.8870	30.49	0.97	31.46	46.00	-14.54	-	-	peak

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Horizontal



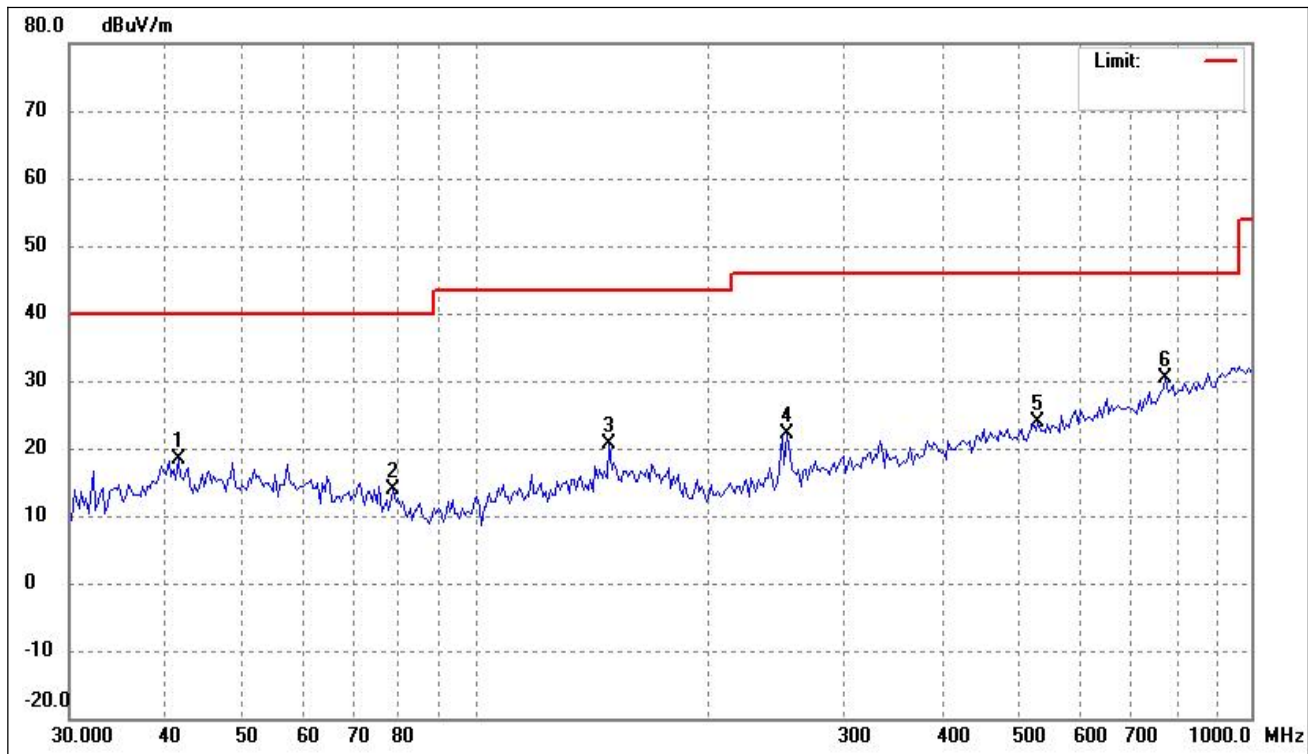
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	40.5837	29.99	-9.53	20.46	40.00	-19.54	-	-	peak
2	54.1349	28.90	-9.14	19.76	40.00	-20.24	-	-	peak
3	148.9175	30.32	-8.91	21.41	43.50	-22.09	-	-	peak
4	252.2523	34.27	-9.50	24.77	46.00	-21.23	-	-	peak
5	505.7891	30.11	-4.23	25.88	46.00	-20.12	-	-	peak
6	765.6482	29.90	0.45	30.35	46.00	-15.65	-	-	peak

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Vertical



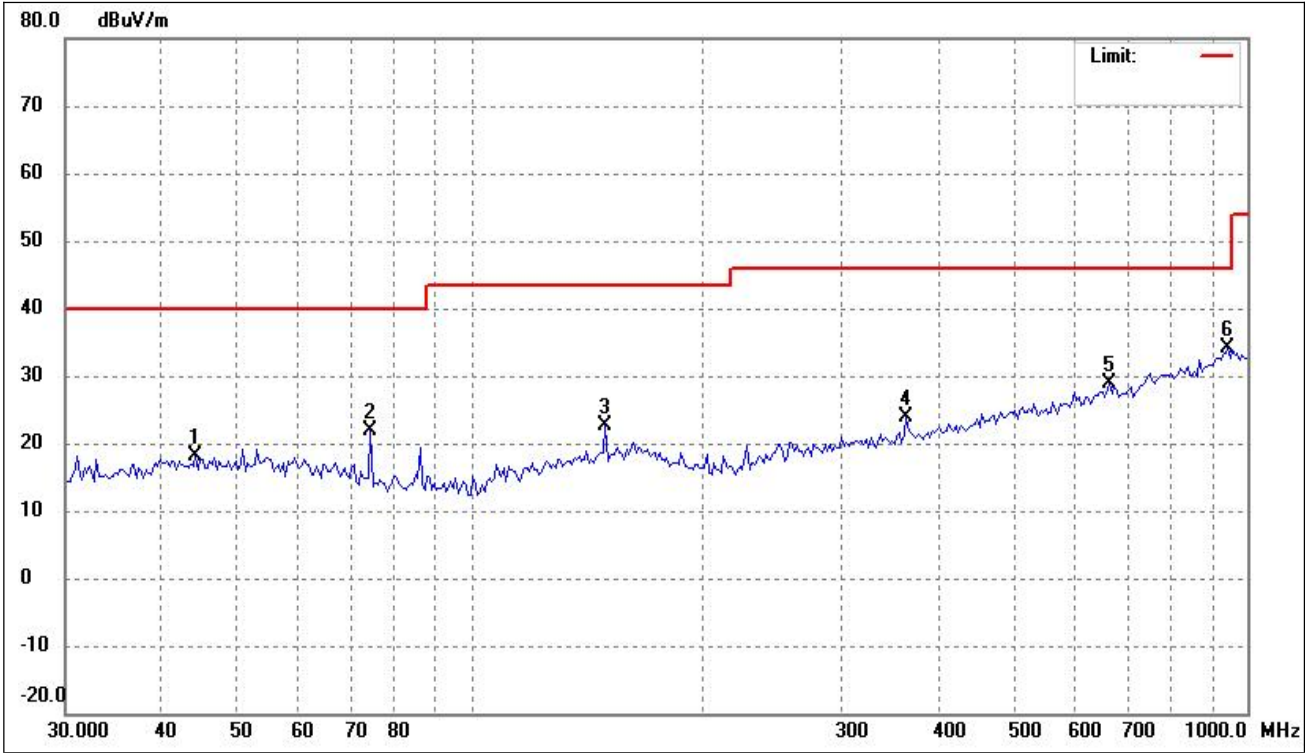
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	38.9081	26.82	-9.69	17.13	40.00	-22.87	-	-	peak
2	74.2696	31.32	-11.92	19.40	40.00	-20.60	-	-	peak
3	148.9175	32.36	-8.91	23.45	43.50	-20.05	-	-	peak
4	395.5071	28.88	-6.18	22.70	46.00	-23.30	-	-	peak
5	531.2910	28.39	-3.80	24.59	46.00	-21.41	-	-	peak
6	919.1315	29.75	2.33	32.08	46.00	-13.92	-	-	peak

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	41.4483	27.72	-9.45	18.27	40.00	-21.73	-	-	peak
2	78.5645	26.61	-12.75	13.86	40.00	-26.14	-	-	peak
3	148.9175	29.49	-8.91	20.58	43.50	-22.92	-	-	peak
4	252.2523	31.72	-9.50	22.22	46.00	-23.78	-	-	peak
5	531.2910	27.77	-3.80	23.97	46.00	-22.03	-	-	peak
6	776.4849	29.86	0.63	30.49	46.00	-15.51	-	-	peak

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	44.1544	27.23	-9.13	18.10	40.00	-21.90	-	-	peak
2	74.2696	33.86	-11.92	21.94	40.00	-18.06	-	-	peak
3	148.9175	31.59	-8.91	22.68	43.50	-20.82	-	-	peak
4	363.5231	30.77	-6.79	23.98	46.00	-22.02	-	-	peak
5	665.2610	30.09	-1.22	28.87	46.00	-17.13	-	-	peak
6	945.3336	31.23	2.85	34.08	46.00	-11.92	-	-	peak

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- Test Mode: 802.11b_11Mbps (worst case)

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	60.61	-13.21	47.40	74	-26.60	H	PK
4824.000	55.61	-13.21	42.40	54	-11.60	H	AV
7236.000	55.02	-6.94	48.08	74	-25.92	H	PK
7236.000	46.46	-6.94	39.52	54	-14.48	H	AV
4824.000	64.94	-13.21	51.73	74	-22.27	V	PK
4824.000	60.94	-13.21	47.73	54	-6.27	V	AV
7236.000	54.55	-6.94	47.61	74	-26.39	V	PK
7236.000	46.54	-6.94	39.60	54	-14.40	V	AV
Middle Channel-2437MHz							
4874.000	60.05	-13.15	46.90	74	-27.10	H	PK
4874.000	56.03	-13.15	42.88	54	-11.12	H	AV
7311.000	55.04	-7.15	47.89	74	-26.11	H	PK
7311.000	46.42	-7.15	39.27	54	-14.73	H	AV
4874.000	65.28	-13.15	52.13	74	-21.87	V	PK
4874.000	61.00	-13.15	47.85	54	-6.15	V	AV
7311.000	54.37	-7.15	47.22	74	-26.78	V	PK
7311.000	46.42	-7.15	39.27	54	-14.73	V	AV
High Channel-2462MHz							
4924.000	60.53	-13.09	47.44	74	-26.56	H	PK
4924.000	55.15	-13.09	42.06	54	-11.94	H	AV
7386.000	54.94	-7.37	47.57	74	-26.43	H	PK
7386.000	46.26	-7.37	38.89	54	-15.11	H	AV
4924.000	65.87	-13.09	52.78	74	-21.22	V	PK
4924.000	60.67	-13.09	47.58	54	-6.42	V	AV
7386.000	54.43	-7.37	47.06	74	-26.94	V	PK
7386.000	46.95	-7.37	39.58	54	-14.42	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Conducted Spurious Emission Please refer to Appendix F

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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).

8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2020 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2020 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission

must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

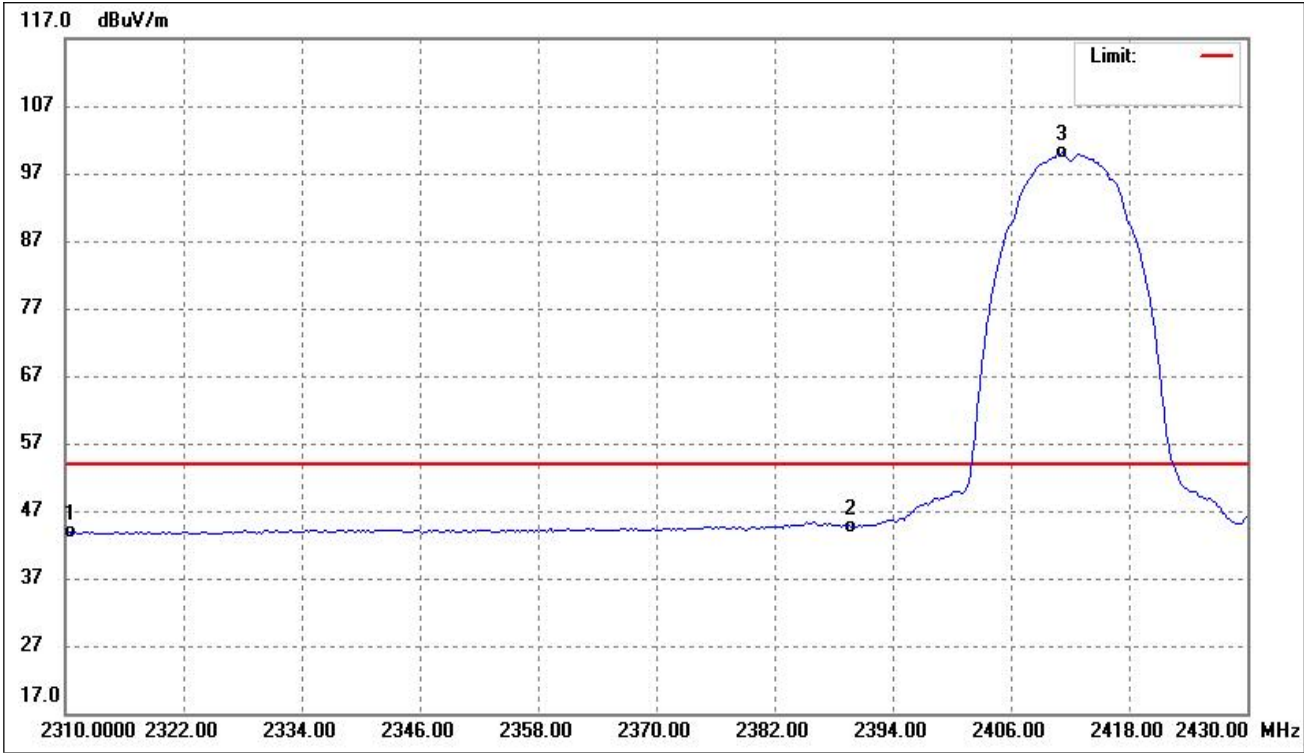
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

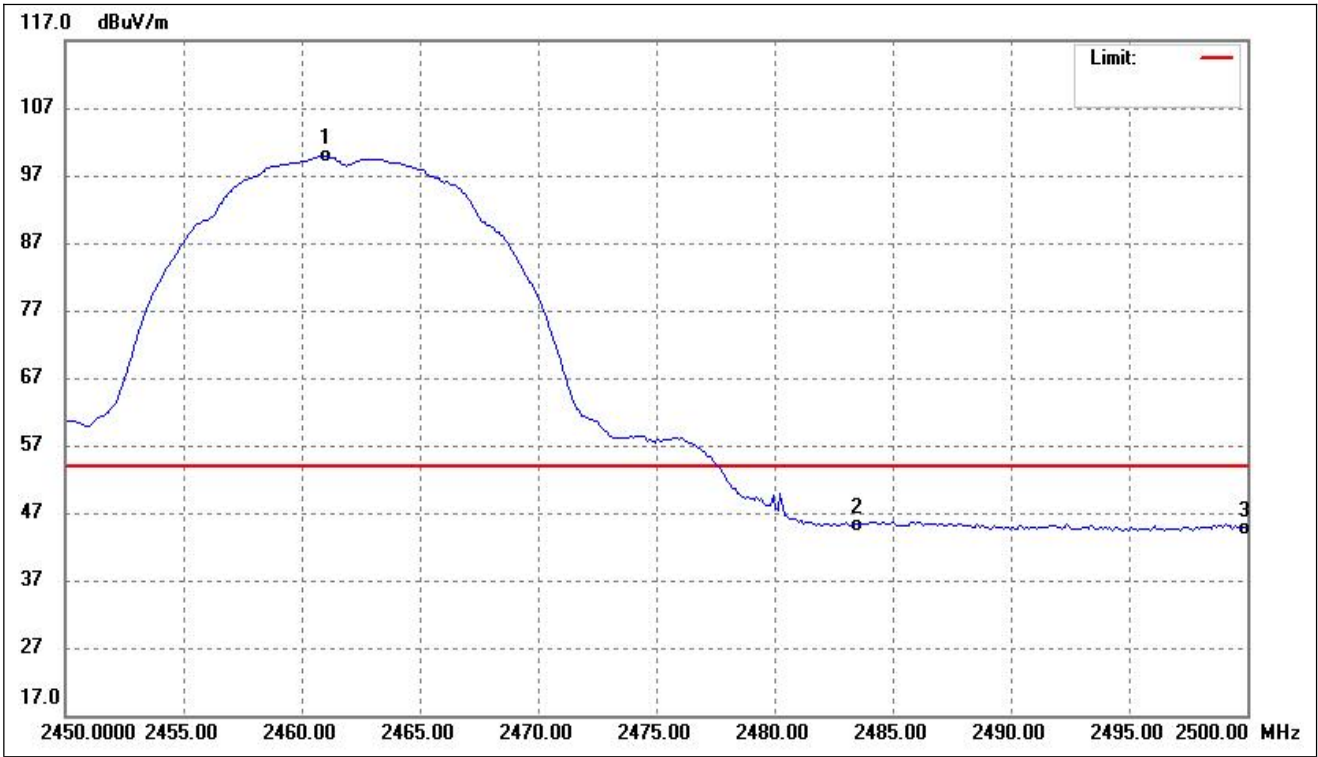
➤ Radiated test

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



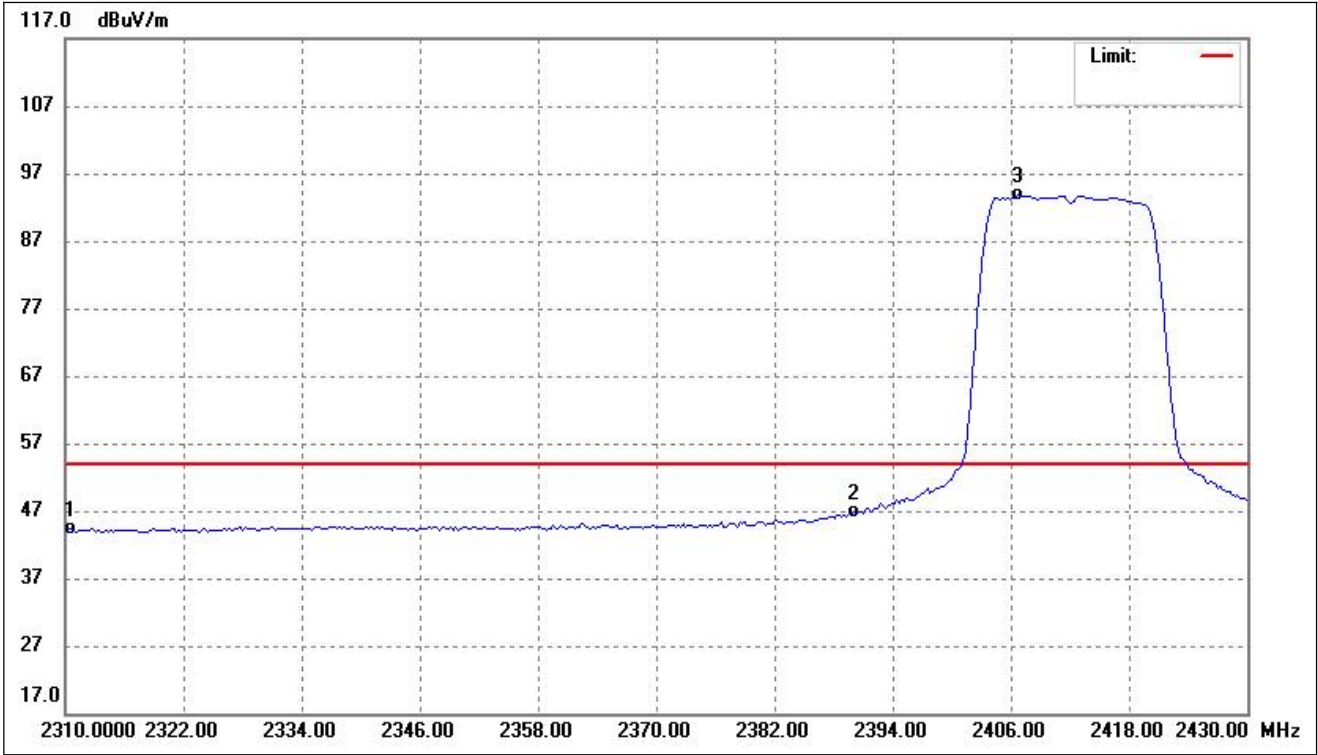
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.35	0.50	43.85	54.00	-10.15	Average Detector
	2310.000	56.38	0.50	56.88	74.00	-17.12	Peak Detector
2	2390.000	43.98	0.69	44.67	54.00	-9.33	Average Detector
	2390.000	57.16	0.69	57.85	74.00	-16.15	Peak Detector
3	2411.242	99.34	0.74	100.08	/	/	Average Detector
	2411.723	108.10	0.75	108.85	/	/	Peak Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.022	99.02	0.85	99.87	/	/	Average Detector
	2461.523	107.18	0.86	108.04	/	/	Peak Detector
2	2483.500	44.28	0.91	45.19	54.00	-8.81	Average Detector
	2483.500	57.06	0.91	57.97	74.00	-16.03	Peak Detector
3	2500.000	43.74	0.95	44.69	54.00	-9.31	Average Detector
	2500.000	55.43	0.95	56.38	74.00	-17.62	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



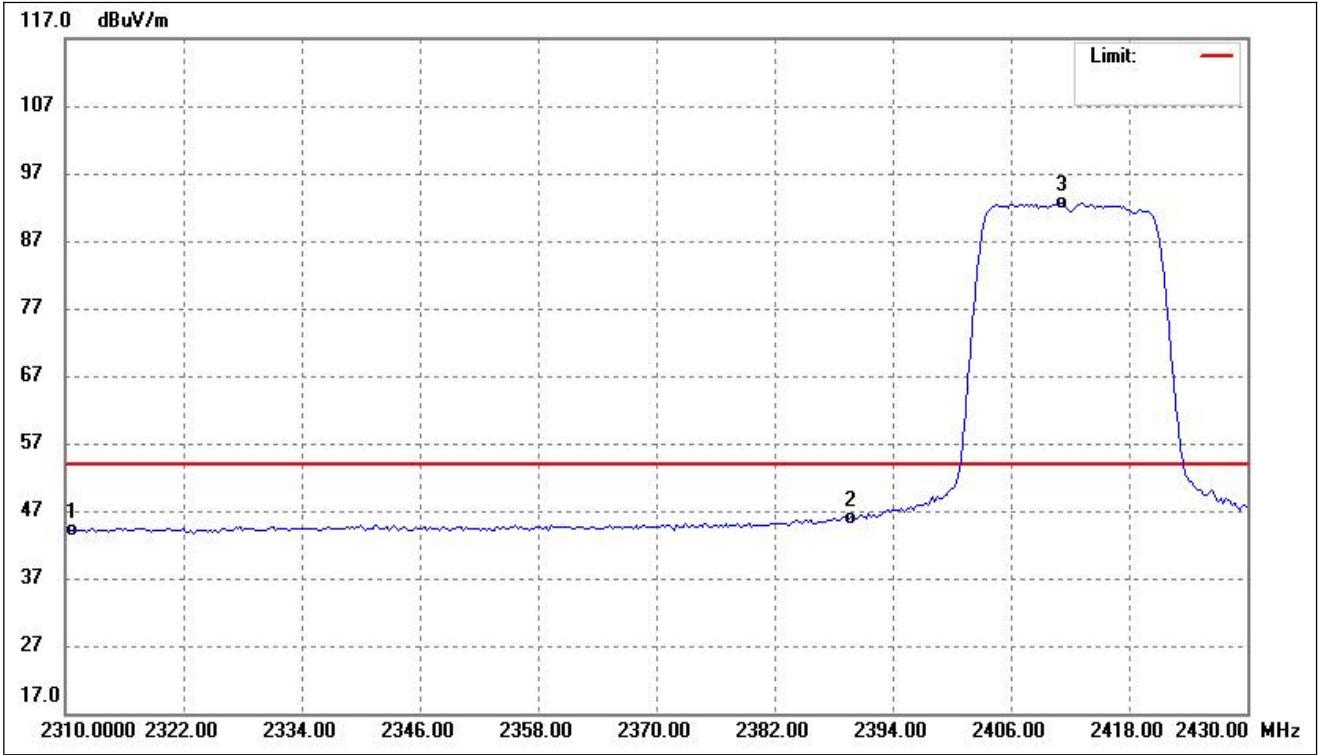
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.79	0.50	44.29	54.00	-9.71	Average Detector
	2310.000	55.80	0.50	56.30	74.00	-17.70	Peak Detector
2	2390.000	46.09	0.69	46.78	54.00	-7.22	Average Detector
	2390.000	62.04	0.69	62.73	74.00	-11.27	Peak Detector
3	2406.673	93.03	0.73	93.76	/	/	Average Detector
	2408.838	103.68	0.74	104.42	/	/	Peak Detector

802.11g_54Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.609	93.89	0.84	94.73	/	/	Average Detector
	2458.317	103.77	0.85	104.62	/	/	Peak Detector
2	2483.500	49.37	0.91	50.28	54.00	-3.72	Average Detector
	2483.500	68.68	0.91	69.59	74.00	-4.41	Peak Detector
3	2500.000	44.09	0.95	45.04	54.00	-8.96	Average Detector
	2500.000	55.65	0.95	56.60	74.00	-17.40	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.60	0.50	44.10	54.00	-9.90	Average Detector
	2310.000	55.64	0.50	56.14	74.00	-17.86	Peak Detector
2	2390.000	45.13	0.69	45.82	54.00	-8.18	Average Detector
	2390.000	58.62	0.69	59.31	74.00	-14.69	Peak Detector
3	2411.242	91.99	0.74	92.73	/	/	Average Detector
	2409.078	102.47	0.74	103.21	/	/	Peak Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2457.415	92.36	0.85	93.21	/	/	Average Detector
	2459.118	102.87	0.85	103.72	/	/	Peak Detector
2	2483.500	47.83	0.91	48.74	54.00	-5.26	Average Detector
	2483.500	67.50	0.91	68.41	74.00	-5.59	Peak Detector
3	2500.000	43.72	0.95	44.67	54.00	-9.33	Average Detector
	2500.000	56.04	0.95	56.99	74.00	-17.01	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.70	0.50	44.20	54.00	-9.80	Average Detector
	2310.000	55.02	0.50	55.52	74.00	-18.48	Peak Detector
2	2390.000	46.00	0.69	46.69	54.00	-7.31	Average Detector
	2390.000	60.73	0.69	61.42	74.00	-12.58	Peak Detector
3	2411.563	88.40	0.75	89.15	/	/	Average Detector
	2412.685	98.72	0.75	99.47	/	/	Peak Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2442.766	88.88	0.81	89.69	/	/	Average Detector
	2443.046	99.12	0.81	99.93	/	/	Peak Detector
2	2483.500	48.16	0.91	49.07	54.00	-4.93	Average Detector
	2483.500	63.80	0.91	64.71	74.00	-9.29	Peak Detector
3	2500.000	44.18	0.95	45.13	54.00	-8.87	Average Detector
	2500.000	57.46	0.95	58.41	74.00	-15.59	Peak Detector

➤ Conducted test
Please refer to Appendix D&E

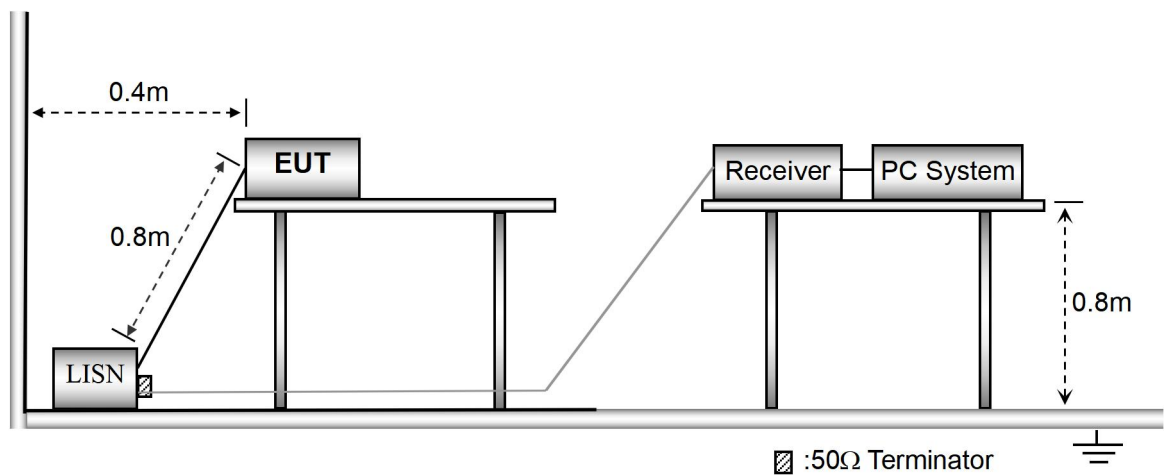
9. Conducted Emissions

9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

9.2 Basic Test Setup Block Diagram



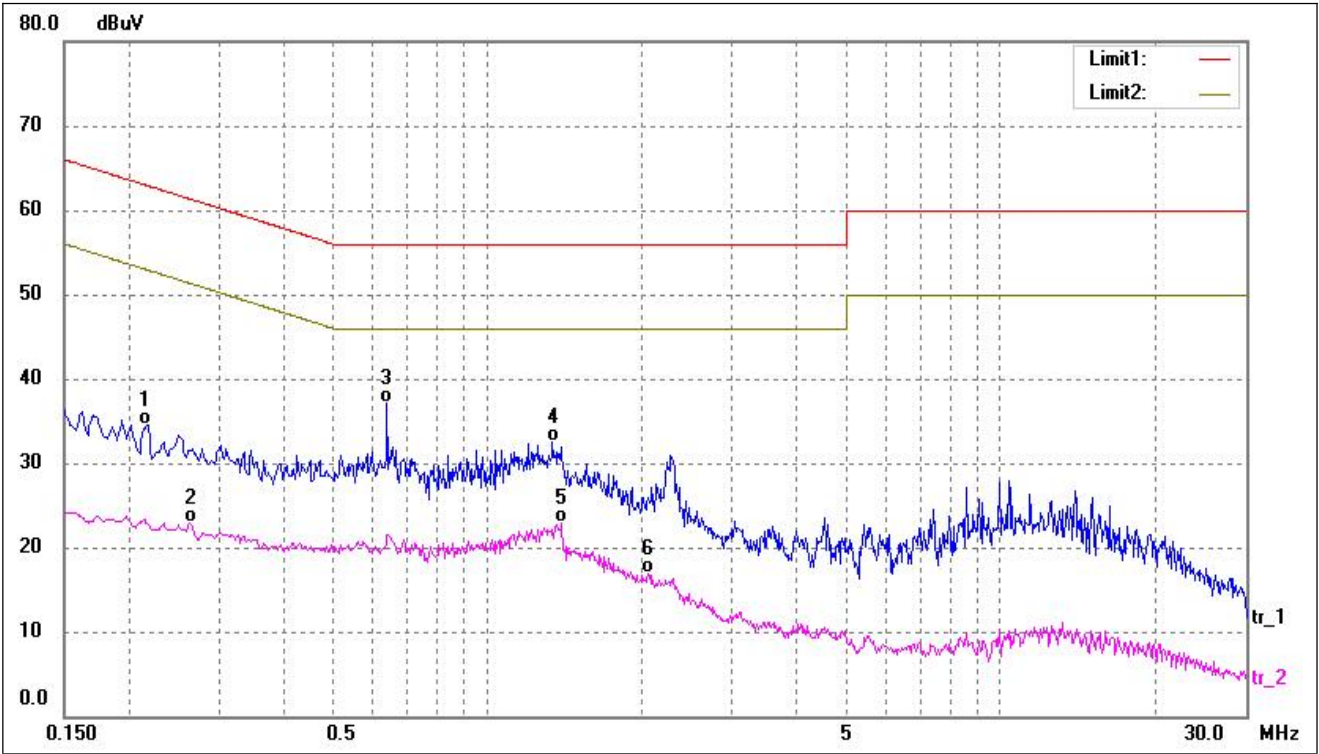
9.3 Test Receiver Setup

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

Start Frequency.....	150kHz
Stop Frequency.....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth.....	9kHz
Quasi-Peak Adapter Mode.....	Normal

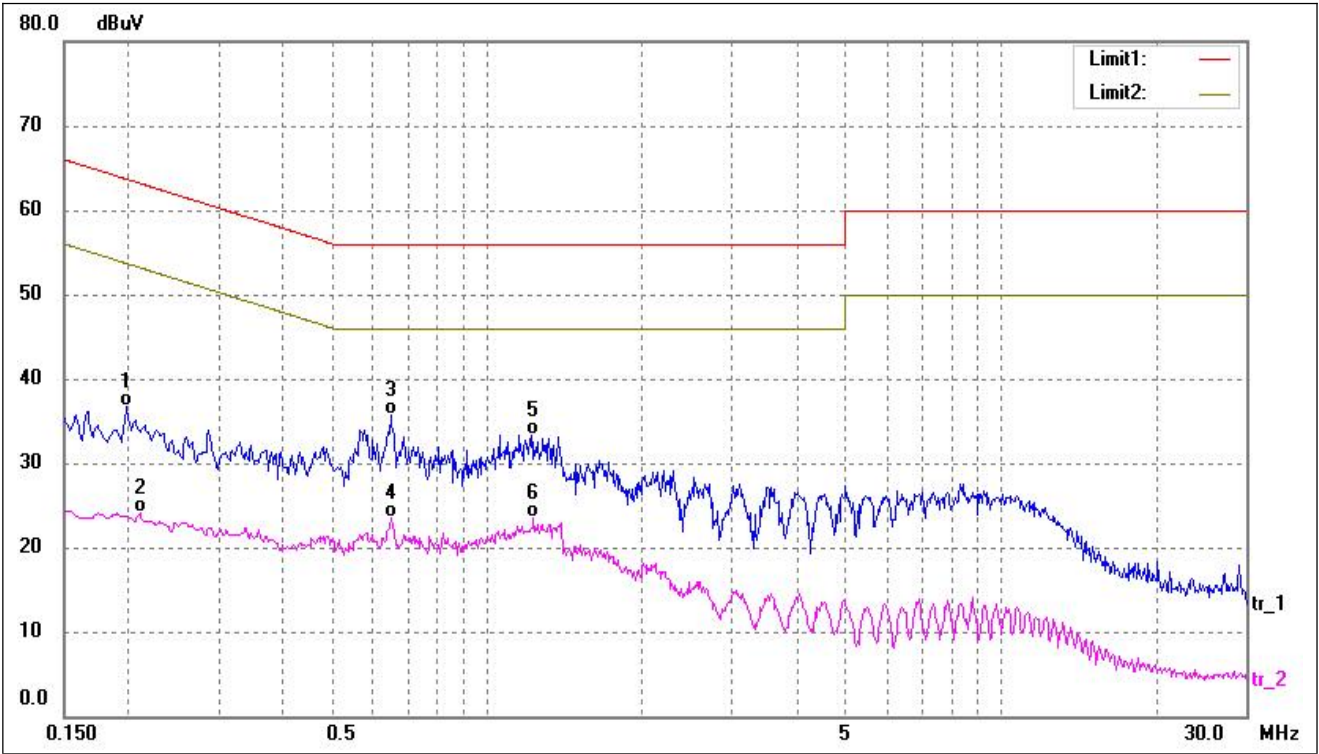
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2180	24.95	9.63	34.58	62.89	-28.31	QP
2	0.2620	13.23	9.63	22.86	51.37	-28.51	AVG
3*	0.6380	27.37	9.71	37.08	56.00	-18.92	QP
4	1.3380	22.95	9.62	32.57	56.00	-23.43	QP
5	1.3980	13.27	9.60	22.87	46.00	-23.13	AVG
6	2.0580	7.50	9.36	16.86	46.00	-29.14	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1980	27.02	9.62	36.64	63.69	-27.05	QP
2	0.2100	14.38	9.63	24.01	53.21	-29.20	AVG
3*	0.6500	26.09	9.71	35.80	56.00	-20.20	QP
4	0.6500	13.83	9.71	23.54	46.00	-22.46	AVG
5	1.2180	23.72	9.67	33.39	56.00	-22.61	QP
6	1.2340	13.86	9.67	23.53	46.00	-22.47	AVG

APPENDIX SUMMARY

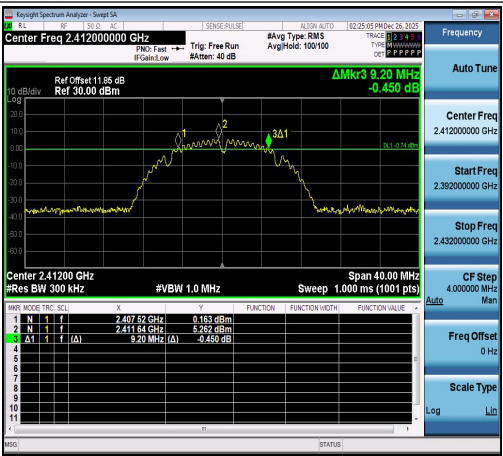
Project No.	WTX25X09241819W	Test Engineer	BAldi zhong
Start date	2025/09/18	Finish date	2025/12/26
Temperature	23.6℃	Humidity	64%
RF specifications	WIFI 2.4GHz		

APPENDIX	Description of Test Item	Result
A	DTS Bandwidth	Compliant
B	Maximum conducted output power	Compliant
C	Maximum power spectral density	Compliant
D	Reference level measurement	Compliant
E	Band edge measurements	Compliant
F	Conducted Spurious Emission	Compliant
G	Duty Cycle	Compliant

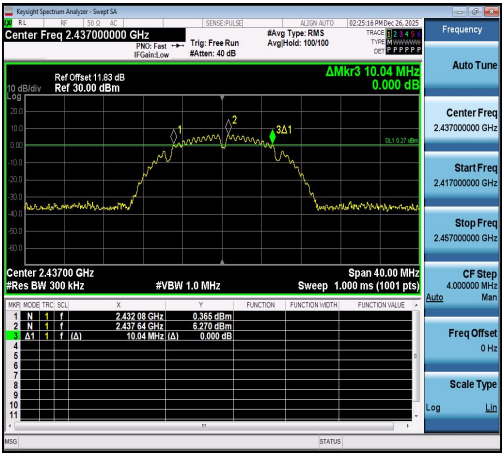
Appendix A: DTS Bandwidth**Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.200	2407.520	2416.720	0.5	PASS
11B	Ant1	2437	10.040	2432.080	2442.120	0.5	PASS
11B	Ant1	2462	9.240	2457.480	2466.720	0.5	PASS
11G	Ant1	2412	16.360	2403.920	2420.280	0.5	PASS
11G	Ant1	2437	16.400	2428.920	2445.320	0.5	PASS
11G	Ant1	2462	16.400	2453.920	2470.320	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.280	2420.880	0.5	PASS
11N20SISO	Ant1	2437	17.520	2428.400	2445.920	0.5	PASS
11N20SISO	Ant1	2462	17.520	2453.320	2470.840	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.160	2439.920	0.5	PASS
11N40SISO	Ant1	2437	35.840	2419.160	2455.000	0.5	PASS
11N40SISO	Ant1	2452	34.960	2434.400	2469.360	0.5	PASS

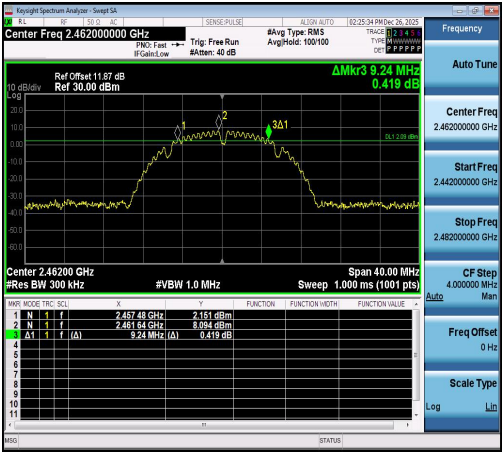
Test Graphs



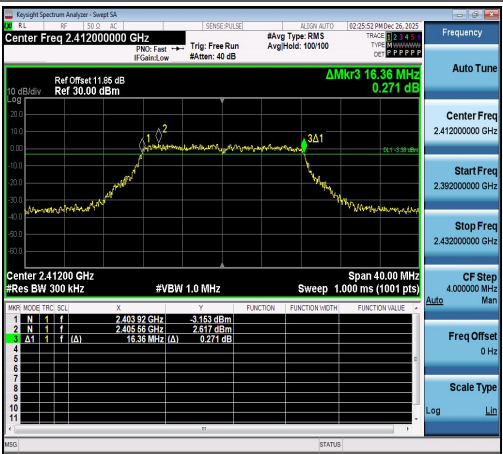
11B-Ant1-2412-PASS



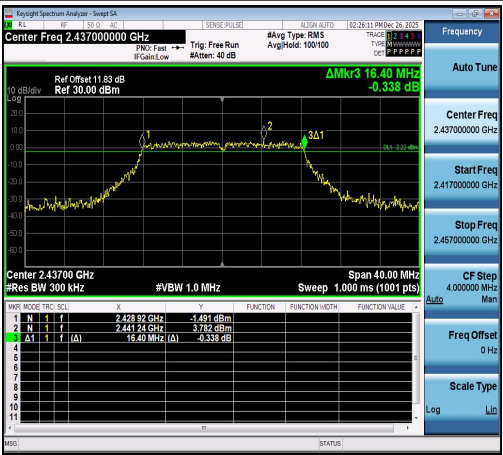
11B-Ant1-2437-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



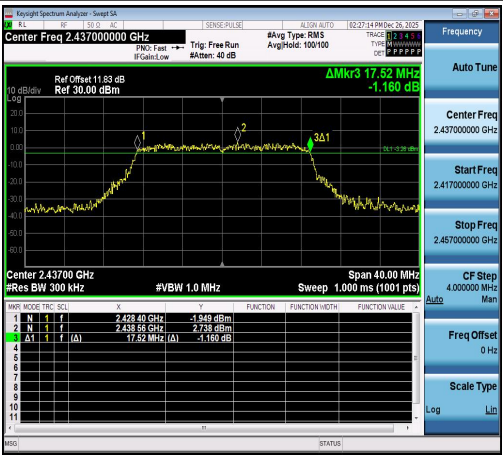
11G-Ant1-2437-PASS



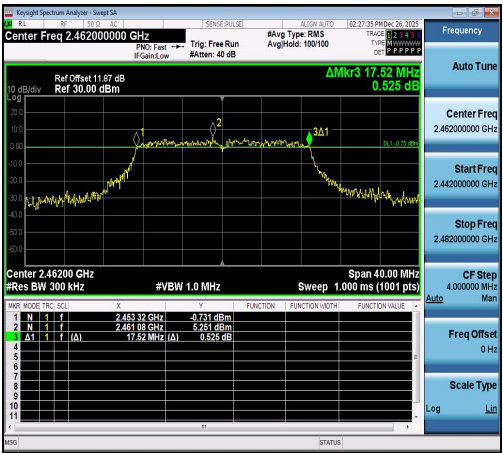
11G-Ant1-2462-PASS



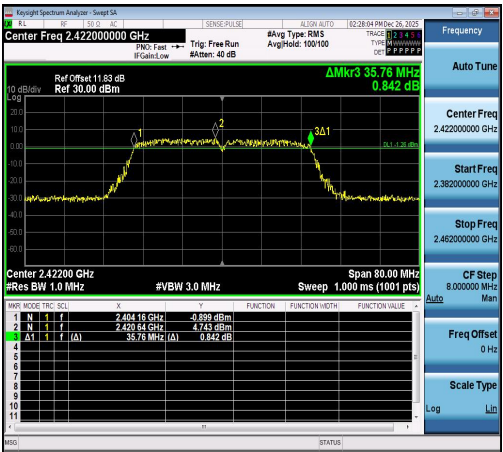
11N20SISO-Ant1-2412-PASS



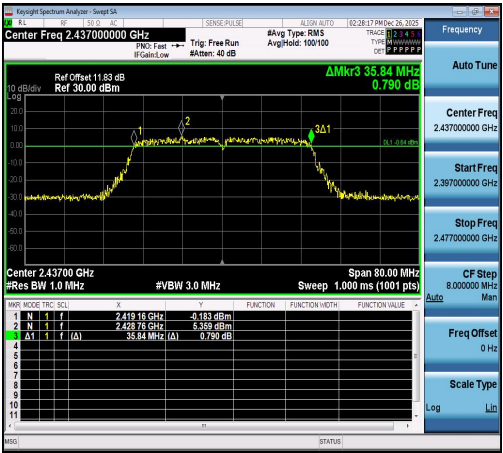
11N20SISO-Ant1-2437-PASS



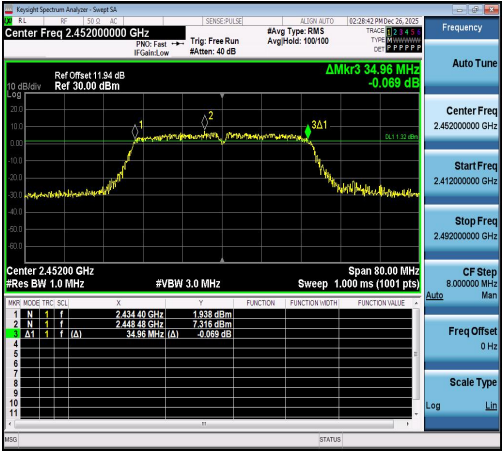
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

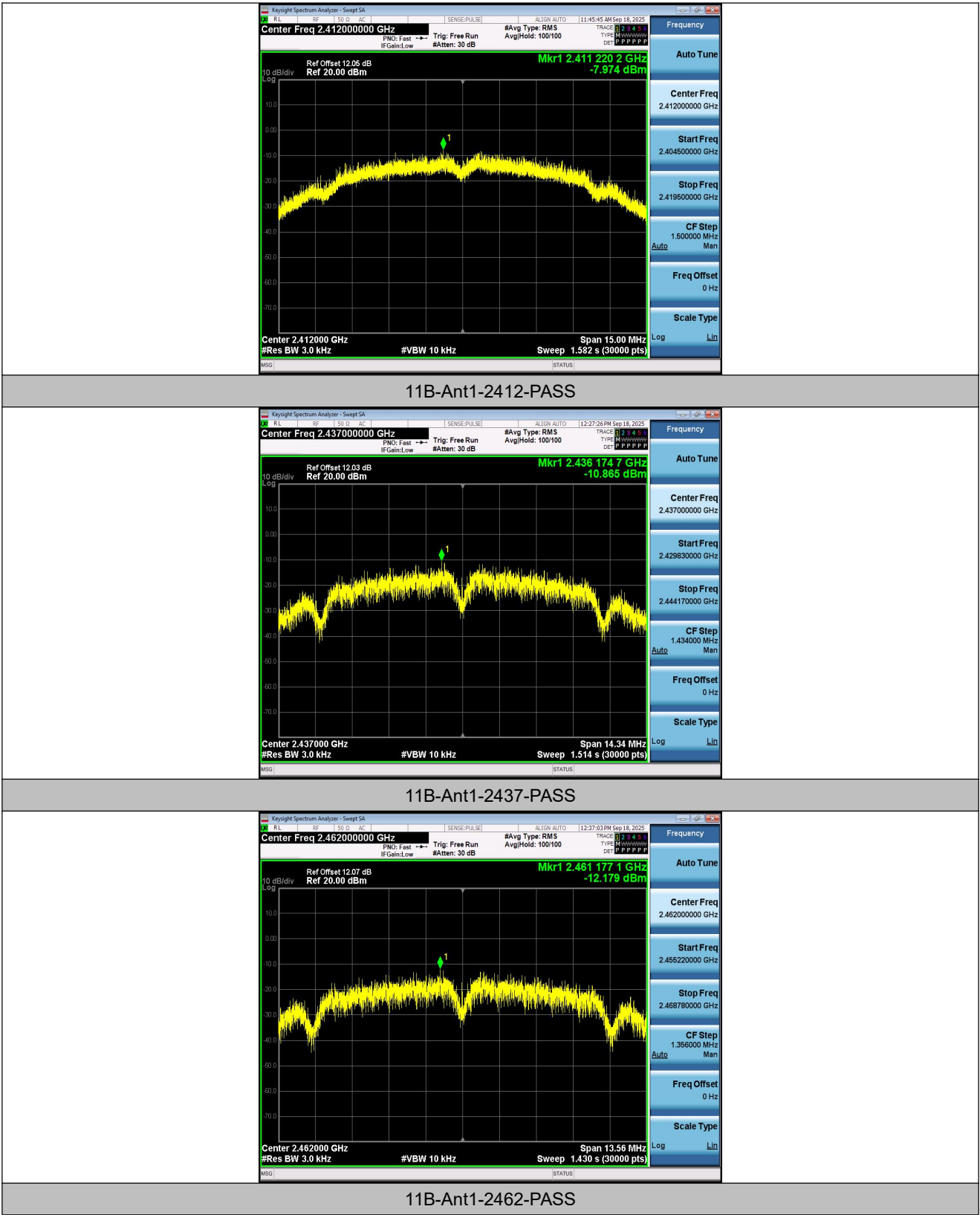
Appendix B: Maximum conducted output power**Test Result**

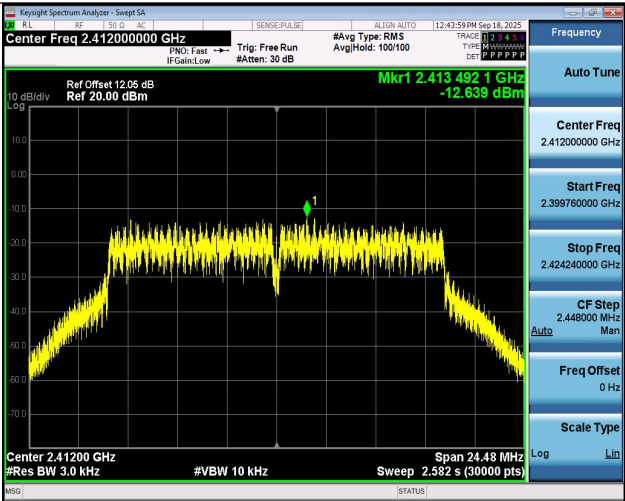
TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.20	≤30.00	PASS
11B	Ant1	2437	12.98	≤30.00	PASS
11B	Ant1	2462	11.80	≤30.00	PASS
11G	Ant1	2412	13.10	≤30.00	PASS
11G	Ant1	2437	11.81	≤30.00	PASS
11G	Ant1	2462	11.16	≤30.00	PASS
11N20SISO	Ant1	2412	12.28	≤30.00	PASS
11N20SISO	Ant1	2437	14.87	≤30.00	PASS
11N20SISO	Ant1	2462	15.26	≤30.00	PASS
11N40SISO	Ant1	2422	13.97	≤30.00	PASS
11N40SISO	Ant1	2437	14.14	≤30.00	PASS
11N40SISO	Ant1	2452	14.28	≤30.00	PASS

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

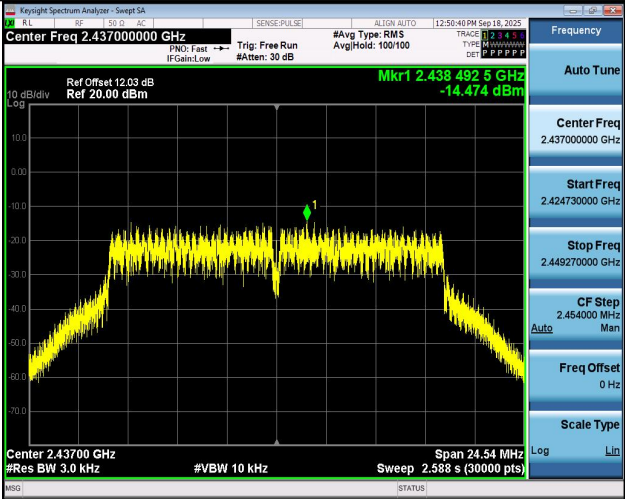
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.97	≤8.00	PASS
11B	Ant1	2437	-10.87	≤8.00	PASS
11B	Ant1	2462	-12.18	≤8.00	PASS
11G	Ant1	2412	-12.64	≤8.00	PASS
11G	Ant1	2437	-14.47	≤8.00	PASS
11G	Ant1	2462	-15.91	≤8.00	PASS
11N20SISO	Ant1	2412	-12.90	≤8.00	PASS
11N20SISO	Ant1	2437	-10.80	≤8.00	PASS
11N20SISO	Ant1	2462	-10.85	≤8.00	PASS
11N40SISO	Ant1	2422	-13.27	≤8.00	PASS
11N40SISO	Ant1	2437	-13.26	≤8.00	PASS
11N40SISO	Ant1	2452	-13.47	≤8.00	PASS

Test Graphs

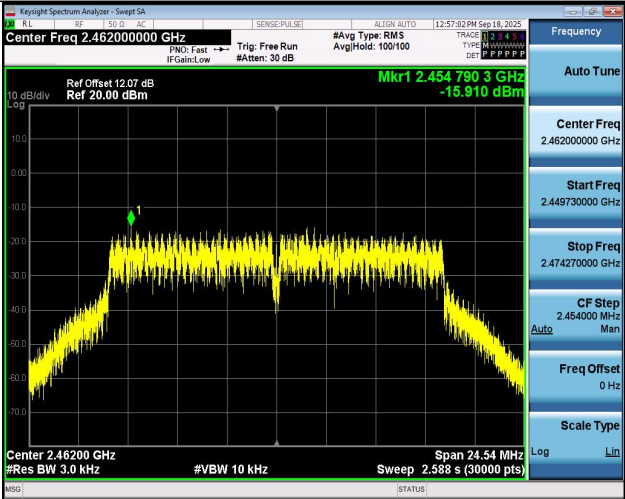




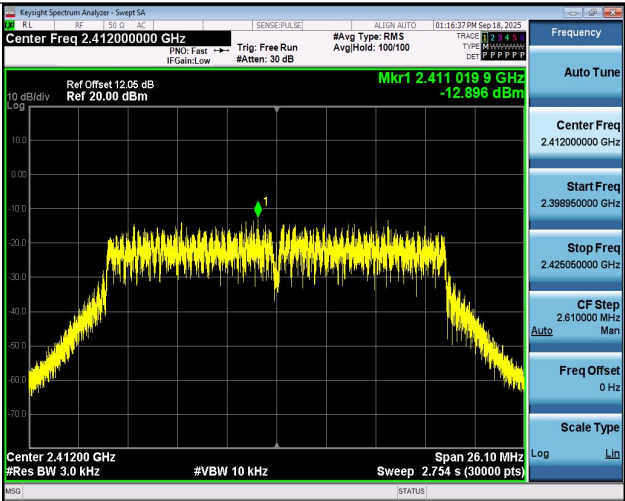
11G-Ant1-2412-PASS



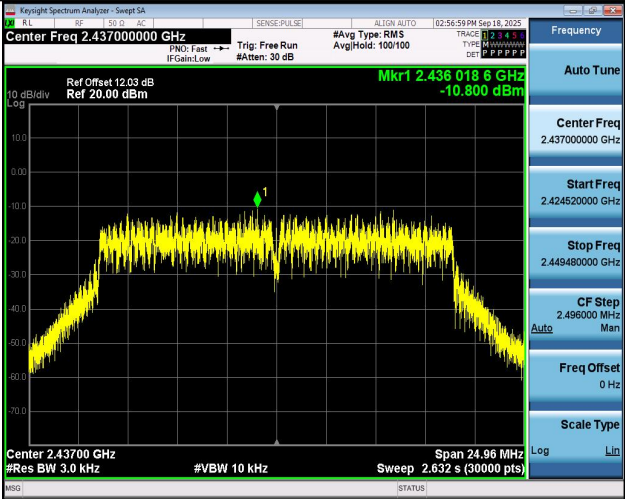
11G-Ant1-2437-PASS



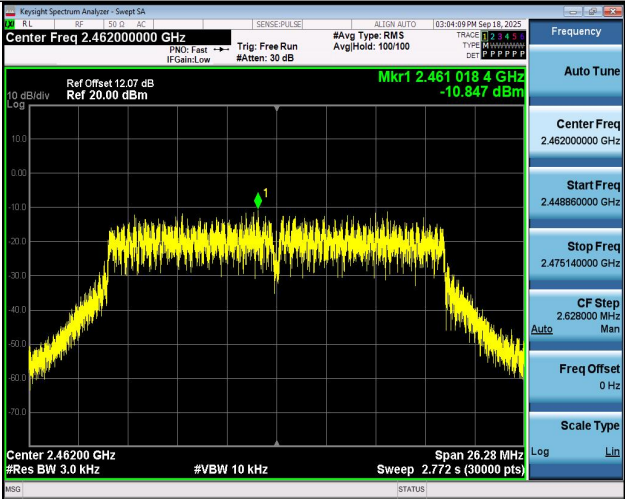
11G-Ant1-2462-PASS



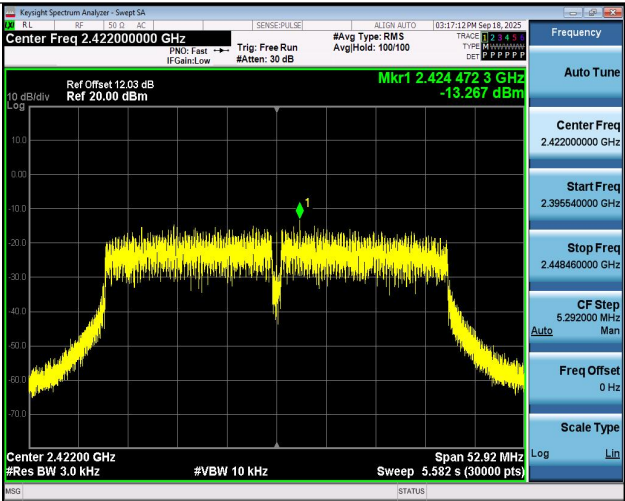
11N20SISO-Ant1-2412-PASS



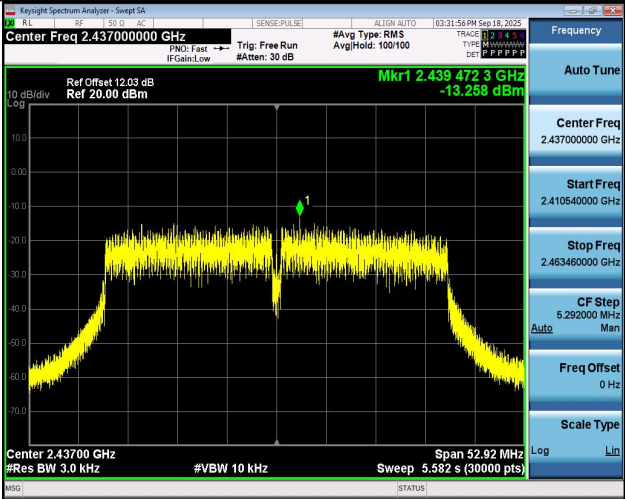
11N20SISO-Ant1-2437-PASS



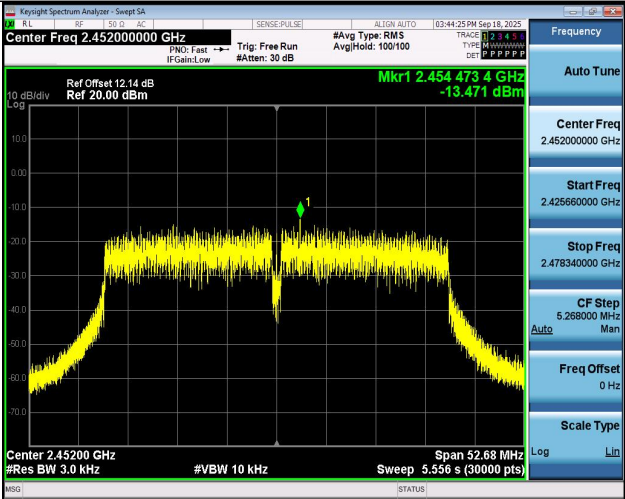
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

Appendix D: Reference level measurement**Test Result**

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2413.46	1.55
11B	Ant1	2437	2436.47	2.72
11B	Ant1	2462	2461.48	1.74
11G	Ant1	2412	2406.98	1.65
11G	Ant1	2437	2430.72	0.16
11G	Ant1	2462	2455.72	-1.41
11N20SISO	Ant1	2412	2410.72	0.92
11N20SISO	Ant1	2437	2430.71	3.35
11N20SISO	Ant1	2462	2457.01	2.73
11N40SISO	Ant1	2422	2417.03	-0.42
11N40SISO	Ant1	2437	2440.76	0.14
11N40SISO	Ant1	2452	2443.26	-0.14

Test Graphs

