Prüfbericht-Nr.: *Test report no.:*	**CN25OJBD 002**	**Auftrags-Nr.:** *Order no.:*	168539409	Seite 1 von 25 *Page 1 of 25*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2025-01-13	
Auftraggeber: *Client:*	**Edifier International Limited** P.O. Box 6264 General Post Office, Hong Kong			
Prüfgegenstand: *Test item:*	Tabletop Wireless Speaker			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	EDF100092, S300 (Trademark: EDIFIER)			
Auftrags-Inhalt: *Order content:*	Type Test			
Prüfgrundlage: *Test specification:*	EN 300 328 V2.2.2 (2019-07) ETSI EN 300 328 V2.2.2 (2019-07)			
Wareneingangsdatum: *Date of sample receipt:*	2025-01-20			
Prüfmuster-Nr.: *Test sample no.:*	S25011512-001 S25011512-009			
Prüfzeitraum: *Testing period:*	2025-01-23 - 2025-02-17			
Ort der Prüfung: *Place of testing:*	Guangdong Dongdian Testing Service Co.,Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			



geprüft von: *tested by:*	x	**genehmigt von:** *authorized by:*	x
Datum: *Date:* 2025-03-11	Signed by: Harry W. C. Wu	**Ausstellungsdatum:** *Issue date:* 2025-03-11	Signed by: Alex Lan
Stellung / Position	Project Manager	**Stellung** / Position	Authorizer

Sonstiges / *Other:*

This report is for Article 3.2 Radio Spectrum of EN 300 328 of 2.4GHz Wi-Fi function requirements only.

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:* Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged:*

* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*P(ass) = passed a.m. test specification(s)*	*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.

Anmerkungen

Remarks

1	The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request. *Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.* *Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.*
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3	Test clauses with remark of * are subcontracted to qualified subcontractors and descripted under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report. *Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.*
4	The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the “Zero Guard Band Rule” and “Simple Acceptance” in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019. *Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.*

Test Summary

5.1.1 RF OUTPUT POWER
RESULT: Pass

5.1.2 POWER SPECTRAL DENSITY
RESULT: Pass

5.1.3 DUTY CYCLE, TX-SEQUENCE, TX-GAP
RESULT: Not applicable

5.1.4 MEDIUM UTILISATION (MU) FACTOR
RESULT: Not applicable

5.1.5 ADAPTIVITY
RESULT: Pass

5.1.6 OCCUPIED CHANNEL BANDWIDTH
RESULT: Pass

5.1.7 TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN
RESULT: Pass

5.1.8 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN
RESULT: Pass

5.2.1 RECEIVER SPURIOUS EMISSIONS
RESULT: Pass

5.2.2 RECEIVER BLOCKING
RESULT: Pass

5.2.3 GEO-LOCATION CAPABILITY
RESULT: Not applicable

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Result.

2 Test Sites

2.1 Test Facilities

Guangdong Dongdian Testing Service Co.,Ltd.
Unit 2, Building 1, No.17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

CNAS No.: L6451

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☒ RF Connected Test (RF Measurement System 1#)					
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2025/03/31	1 Year
Wideband Radio Communication Tester	R&S	CMW500	168801	2025/03/31	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2025/03/31	1 Year
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2024/09/05	1 Year
RF Control Unit	Tonsend	JS0806-2	21I8060485	2025/03/31	1 Year
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22	1 Year
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A	N/A

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22	1 Year
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22	1 Year
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31	1 Year
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31	1 Year
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11	2 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/07/08	1 Year
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22	1 Year
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	/
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11	2 Year
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31	1 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26	1 Year
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18	2 Year
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31	1 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31	1 Year

2.3 Uncertainty of Measurement

The value of the measurement uncertainty of each parameter is listed as below:

Table 2: Maximum Measurement Uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.40 dB (3.6 GHz ≤ f < 8 GHz)
	1.66 dB (8 GHz ≤ f < 26.5 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 ℃
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Tabletop Wireless Speaker with Bluetooth Dual technology and 802.11 g/n (Wi-Fi), technologies, the product comes with an infrared remote control, it used for audio entertainment in house or similar environment.

Two models are identical except the model number different for different market purpose.

Manufacturer: Beijing Edifier Technology Co., Ltd.
Address: 815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road, Haidian District, 100080 Beijing, P.R. China

Factory: Dongguan Edifier Technology Co., Ltd.
Address: No.2 Gongyedong Road, Songshan Lake Sci.&Tech. Industry Park, Dongguan, 523808 Guangdong, P.R. China

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Tabletop Wireless Speaker
Type Designation	EDF100092, S300
Trade Mark	EDIFIER
Extreme Temperature Range	0°C - +35°C
Operating Voltage	AC 100-240V, 50/60Hz, 750mA
Technical Specification of Bluetooth (BDR & EDR)	
Operating Frequency Channel	2402 – 2480 MHz
Bluetooth Core Version	5.4
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, π/4DQPSK, 8DPSK
Antenna Number	1
Antenna Type	FPC antenna
Antenna Gain	3.27 dBi (Provide by the Client)

Technical Specification of Bluetooth (Bluetooth Low Energy)	
Operating Frequency Channel	2402 – 2480 MHz for data rate 1Mbps 2404 – 2478 MHz for data rate 2Mbps
Bluetooth Core Version	5.4
Data rate	1Mbps, 2Mbps
Channel Number	40 channels for data rate 1Mbps 37 channels for data rate 2Mbps Note: 2402MHz/2426MHz/2480MHz will be disable via software for date rate 2Mbps.
Channel separation	2MHz
Modulation	GFSK
Antenna Number	1
Antenna Type	FPC antenna
Antenna Gain	3.27 dBi (Provide by the Client)

Technical Specification of 802.11 g/n Wi-Fi	
Operating channel frequency	2412-2472MHz for 802.11 g/n-HT20
Type of modulation	OFDM(BPSK/QPSK/16QAM/64QAM)
Data rate	6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20)
Channel number	13 Channels for 802.11 g/n-HT20
Channel separation	5 MHz
Antenna Number	1
Antenna Type	FPC antenna
Antenna Gain	1.94 dBi (Provide by the Client)

Technical Specification of Wi-Fi 802.11 n (Band1/2/3)	
Operating Frequency Range	5150-5250MHz, 5250-5350MHz, 5470-5725MHz
Operating Frequency / Channels / Protocol	5180-5320MHz, 15CHs, 802.11 n20; 5500-5700MHz, 19CHs, 802.11 n20
Data Rate	MCS0 ~ MCS7 Mbps for 802.11n
Channel Separation	20MHz
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Type of Product	Adaptive equipment and does not support non-adaptive mode; LBT based Detect and Avoid (load based equipment)
Beamforming	Not Supported
DFS Operational mode	Slave without radar detection
Antenna Number	1
Antenna Type	FPC antenna
Antenna Gain	2.32 dBi for 5150-5250MHz 3.27 dBi for 5250-5350MHz 2.85 dBi for 5470-5725MHz (Provide by the Client)

Technical Specification of Wi-Fi 802.11 n (Band 4)	
Operating Frequency Range	5725-5875MHz
Operating Frequency / Channels / Protocol	5.8GHz Wi-Fi: 5745-5825MHz, 8CHs, 802.11n20
Channel Spacing	20MHz
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Beamforming	Not Supported
Receiver category	Receiver category 1
Antenna Number	1
Antenna Type	FPC antenna
Antenna Gain	2.86 dBi (Provide by the Client)

Table 4: RF Channel and Frequency of 802.11 g/n - (HT20) Wi-Fi

RF Channel	802.11 b/g/n(HT20) Frequency (MHz)	RF Channel	802.11 b/g/n(HT20) Frequency (MHz)
01	**2412**	08	2447
02	2417	09	2452
03	2422	10	2457
04	2427	**11**	2462
05	2432	12	2467
06	2437	**13**	**2472**
07	**2442**		

Test frequencies are lowest channel: 2412 MHz, middle channel: 2442 MHz and highest channel: 2472 MHz for 802.11g/n(HT20)

3.3 Independent Operation Modes

The basic operation modes are:

A. On, 802.11 g/n Transmitting mode
   a) Low Channel
   b) Middle Channel
   c) High Channel

B. 802.11 g/n Receiving mode
   a) Low Channel
   b) Middle Channel
   c) High Channel

C. Off

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Block Diagram
- Schematics
- User Manual
- Parts List
- Rating Label

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and chapter 7.

According to clause 3.1, all test were applied on model EDF100092.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

5 Test Results ERM

5.1 Transmitter Requirement & Test Suites

5.1.1 RF Output Power

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.2 of EN 300 328
Limit	:	Clause 4.3.2.2.3 of EN 300 328
Test suites	:	Clause 5.4.2 of EN 300 328

Test Setup

Date of testing	:	2025-01-23 - 2025-02-17
Test voltage	:	AC 230V/50Hz
Test environment	:	Normal and extreme temperature
Operation mode	:	A
Ambient temperature	:	23.8 ℃
Relative humidity	:	47.9 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.2 Power Spectral Density

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.3 of EN 300 328
Limit	:	Clause 4.3.2.3.3 of EN 300 328
Test suites	:	Clause 5.4.3 of EN 300 328

Test Setup

Date of testing	:	2025-01-23 - 2025-02-17
Test voltage	:	AC 230V/50Hz
Test environment	:	Normal temperature
Operation mode	:	A
Ambient temperature	:	23.8 ℃
Relative humidity	:	47.9 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.3 Duty Cycle, TX-sequence, TX-gap

RESULT: **Not applicable**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.4 of EN 300 328
Limit	:	Clause 4.3.2.4.3 of EN 300 328
Test suites	:	Clause 5.4.2 of EN 300 328

Exemption Conditions:

☒ These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in non-adaptive mode.

Conclusion:

The EUT is adaptive equipment and does not support non-adaptive mode, hence this requirement is not applicable.

5.1.4 Medium Utilisation (MU) Factor

RESULT: **Not applicable**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.5 of EN 300 328
Limit	:	Clause 4.3.2.5.3 of EN 300 328
Test suites	:	Clause 5.4.2 of EN 300 328

Exemption Conditions:

☒ These requirements apply to non-adaptive equipment or to adaptive equipment when operating in non-adaptive mode. The equipment is using wide band modulations other than FHSS.

Conclusion:

The EUT is adaptive equipment and does not support non-adaptive mode, hence this requirement is not applicable.

5.1.5 Adaptivity

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.6.3 of EN 300 328
Limit	:	Clause 4.3.2.6.3.2 of EN 300 328
Test suites	:	Clause 5.4.6 of EN 300 328

Test Setup

Date of testing	:	2025-01-23 - 2025-02-17
Test voltage	:	AC 230V/50Hz
Test environment	:	Normal temperature
Operation mode	:	A
Ambient temperature	:	23.8 ℃
Relative humidity	:	47.9 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.6 Occupied Channel Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.7 of EN 300 328
Limit	:	Clause 4.3.2.7.3 of EN 300 328
Test suites	:	Clause 5.4.7 of EN 300 328

Test Setup

Date of testing	:	2025-01-23 - 2025-02-17
Test voltage	:	AC 230V/50Hz
Test environment	:	Normal temperature
Operation mode	:	A
Ambient temperature	:	23.8 ℃
Relative humidity	:	47.9 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.7 Transmitter Unwanted Emissions in the Out-of-band Domain

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.8 of EN 300 328
Limit	:	Clause 4.3.2.8.3 of EN 300 328
Test suites	:	Clause 5.4.8 of EN 300 328

Test Setup

Date of testing	:	2025-01-23 - 2025-02-17
Test voltage	:	AC 230V/50Hz
Test environment	:	Normal temperature
Operation mode	:	A
Ambient temperature	:	23.8 ℃
Relative humidity	:	47.9 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.1.8 Transmitter Unwanted Emissions in the Spurious Domain

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.9 of EN 300 328
Limit	:	Clause 4.3.2.9.3 of EN 300 328
Test suites	:	Clause 5.4.9 of EN 300 328

Test Setup

Date of testing	:	2025-01-23 - 2025-02-17
Test voltage	:	AC 230V/50Hz
Test environment	:	Normal temperature
Operation mode	:	A
Ambient temperature	:	23.8 ℃
Relative humidity	:	47.9 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.2 Receiver Requirement & Test Suites

5.2.1 Receiver Spurious Emissions

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.10 of EN 300 328
Limit	:	Clause 4.3.2.10.3 of EN 300 328
Test suites	:	Clause 5.4.10 of EN 300 328

Test Setup

Date of testing	:	2025-01-23 - 2025-02-17
Test voltage	:	AC 230V/50Hz
Test environment	:	Normal temperature
Operation mode	:	B
Ambient temperature	:	23.8 ℃
Relative humidity	:	47.9 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

5.2.2 Receiver Blocking

RESULT: **Pass**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.11 of EN 300 328
Limit	:	Clause 4.3.2.11.3 of EN 300 328
Test suites	:	Clause 5.4.11 of EN 300 328

Test Setup

Date of testing	:	2025-01-23 - 2025-02-17
Test voltage	:	AC 230V/50Hz
Test environment	:	Normal temperature
Operation mode	:	B
Ambient temperature	:	23.8 ℃
Relative humidity	:	47.9 %
Atmospheric pressure	:	101.4 kPa

For the measurement records, refer to the appendix A.

For 802.11g: the maximum RF output power is 18.03dBm.
For 802.11 n -HT20: the maximum RF output power is 18.06dBm.

Hence according to the 4.2.3.2, the EUT is belong category 1 receiver.

5.2.3 Geo-location Capability

RESULT: **Not applicable**

Test Specification

Test standard	:	EN 300 328 V2.2.2
Test requirement	:	Clause 4.3.2.12 of EN 300 328

Exemption Conditions:

This requirement only applies to equipment with geo-location capability as defined in clause 4.3.2.12.

Conclusion:

The EUT does not support geo-location capability, hence this requirement is not applicable.

6 Photographs of the Test Set-Up

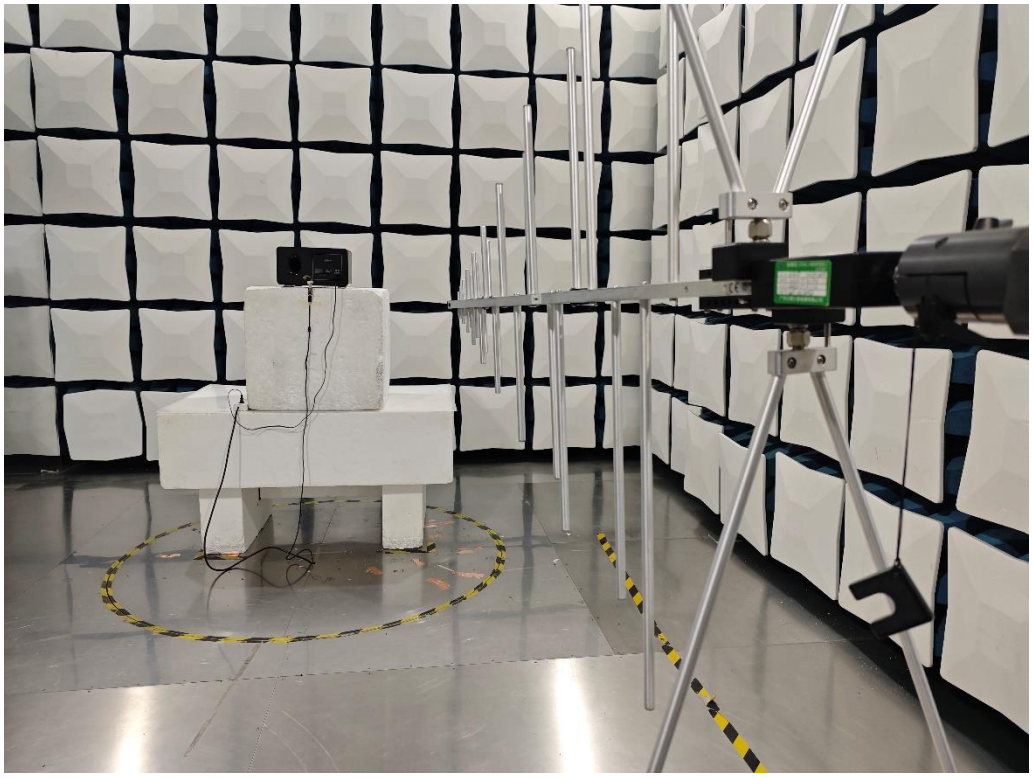
Photograph 1: Set-up for Radio Spectrum Testing, Normal temperature



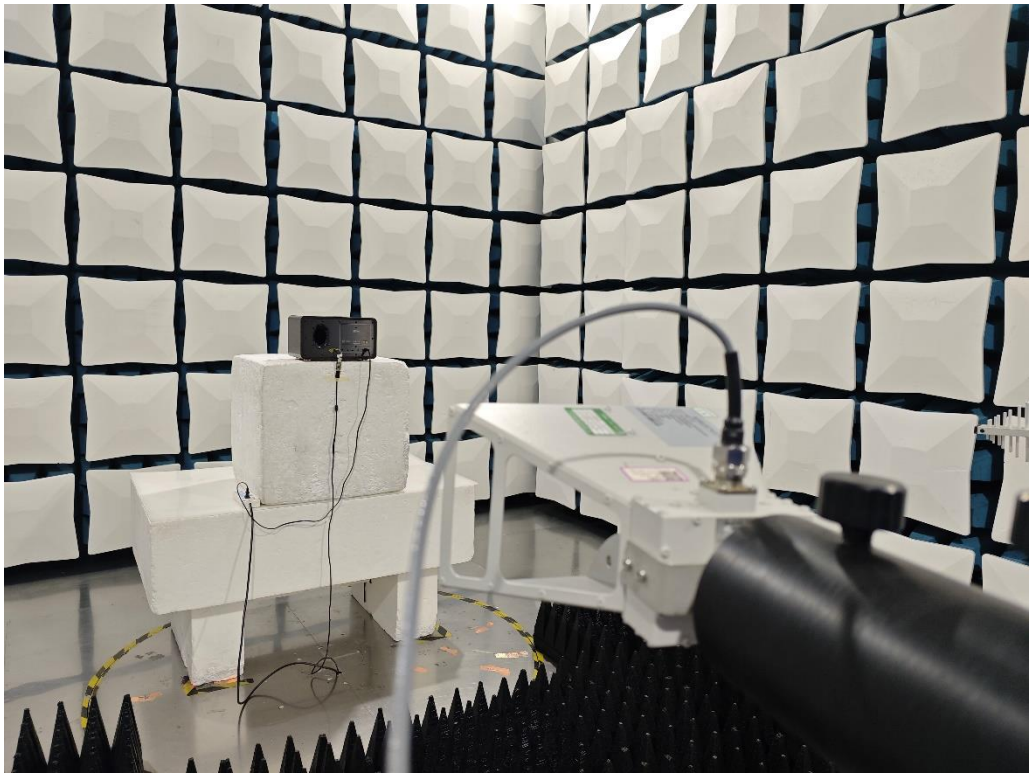
Photograph 2: Set-up for Radio Spectrum Testing, Extreme temperature



Photograph 3: Set-up for Transmitter & Receiver Spurious Emissions, below 1GHz



Photograph 4: Set-up for Transmitter & Receiver Spurious Emissions, Above 1GHz



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Appendix A

Test Results of 2.4GHz Wi-Fi

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1 Appendix A.1 : RF output power

The RF output power is the mean equivalent isotropically radiated power (EIRP) during a transmission burst. Only the worst case for all test modes reported.

Test Condition	Test Mode	Antenna	Frequency (MHz)	Burst Power [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
NTNV	11G	Ant1	2412	15.53	17.47	20	PASS
			2442	15.74	17.68	20	PASS
			2472	16.04	17.98	20	PASS
	11N20SISO	Ant1	2412	15.52	17.46	20	PASS
			2442	15.78	17.72	20	PASS
			2472	16.05	17.99	20	PASS
LTNV	11G	Ant1	2412	15.55	17.49	20	PASS
			2442	15.76	17.70	20	PASS
			2472	16.09	18.03	20	PASS
	11N20SISO	Ant1	2412	15.57	17.51	20	PASS
			2442	15.87	17.81	20	PASS
			2472	16.12	18.06	20	PASS
HTNV	11G	Ant1	2412	15.52	17.46	20	PASS
			2442	15.72	17.66	20	PASS
			2472	16.02	17.96	20	PASS
	11N20SISO	Ant1	2412	15.51	17.45	20	PASS
			2442	15.74	17.68	20	PASS
			2472	16.03	17.97	20	PASS

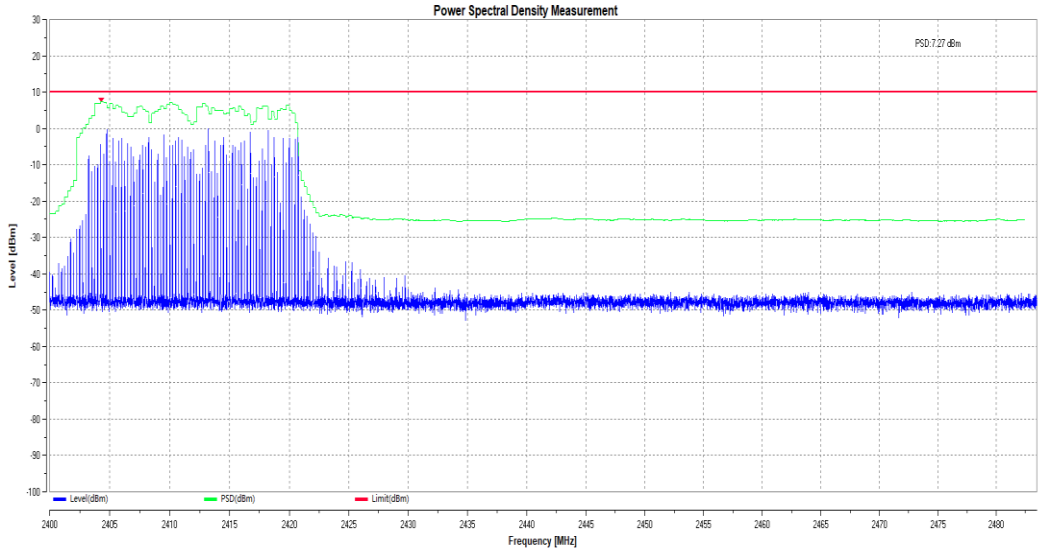
Note: EIRP = Measured Highest Pburst Values + Antenna Gain

2 Appendix A.2: Power density

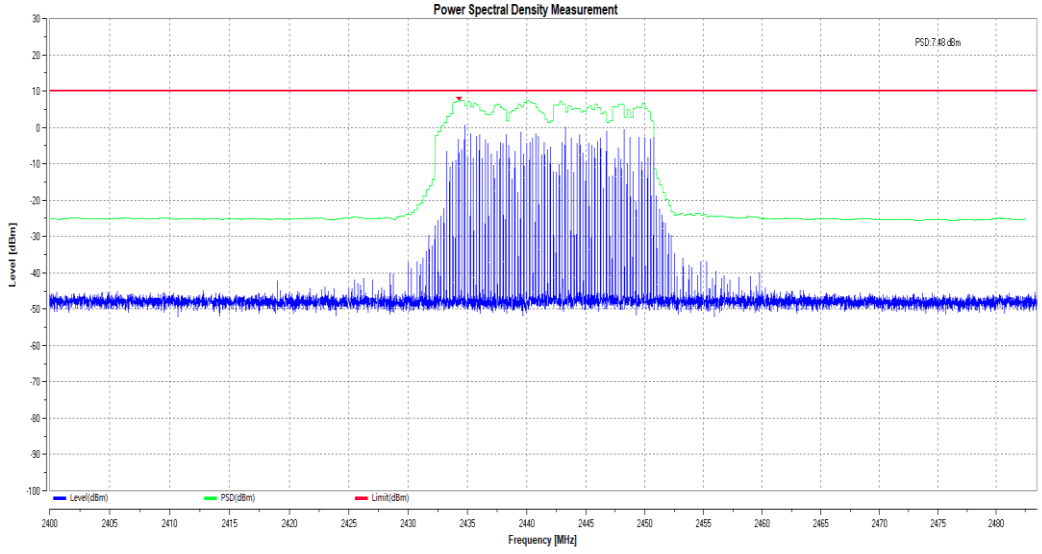
The power density is the mean Equivalent Isotropically Radiated Power (EIRP) density during a transmission burst. Only the worst case for all test modes reported.

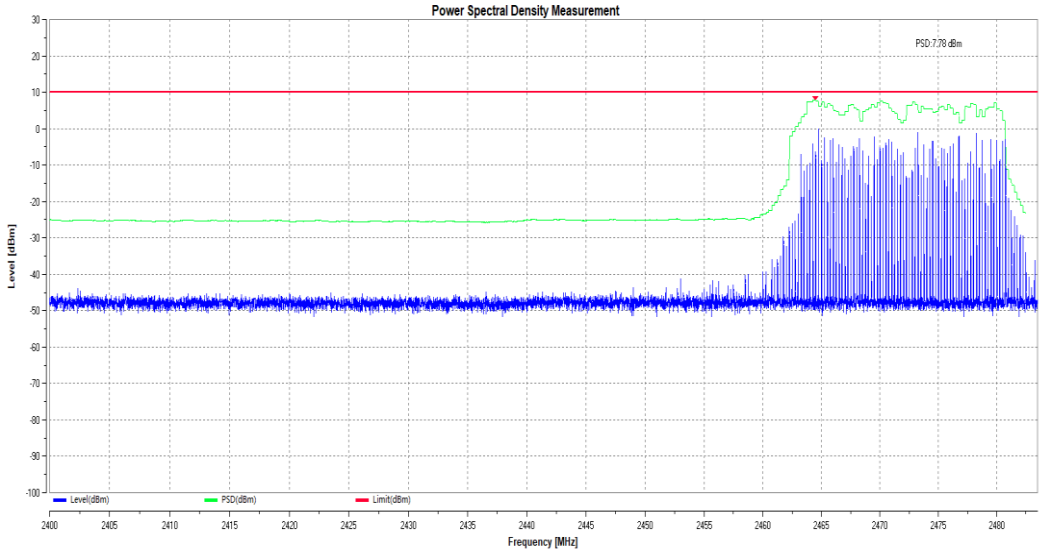
Test Mode	Antenna	Frequency (MHz)	EIRP PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
11G	Ant1	2412	7.27	10	PASS
		2442	7.48	10	PASS
		2472	7.78	10	PASS
11N20SISO	Ant1	2412	7.26	10	PASS
		2442	7.51	10	PASS
		2472	7.80	10	PASS

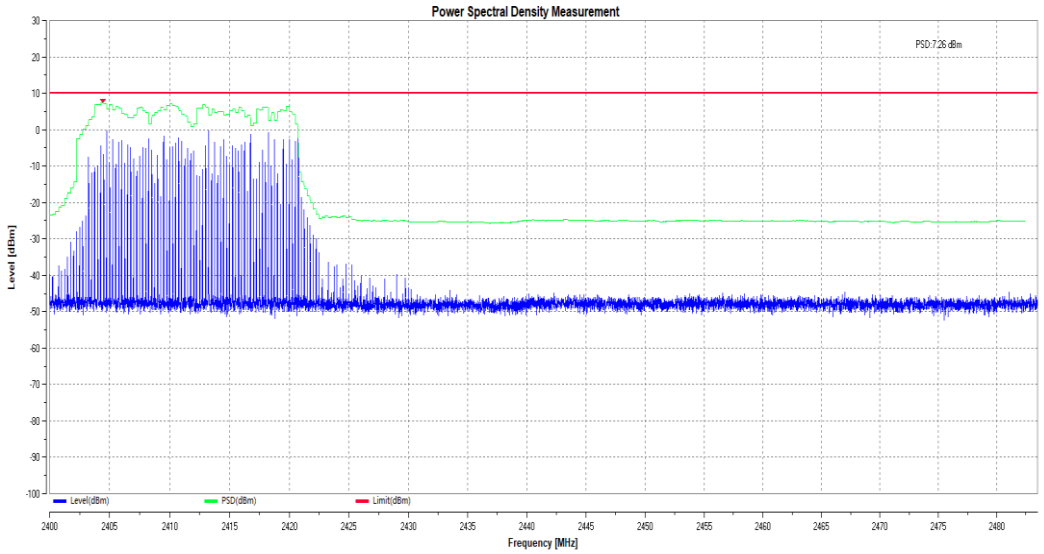
11G_Ant1_2412



11G_Ant1_2442



11G_Ant1_2472


11N20SISO_Ant1_2412


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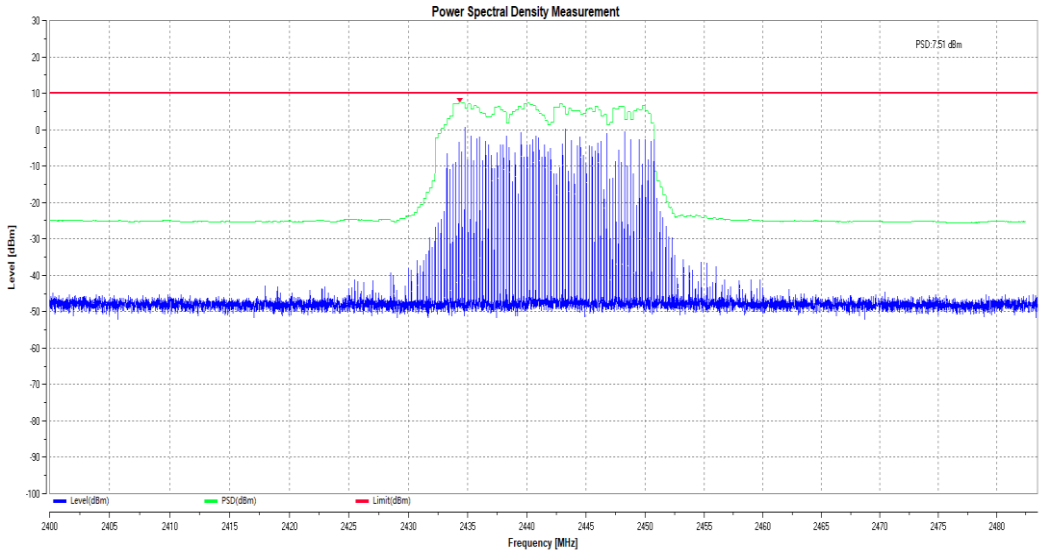

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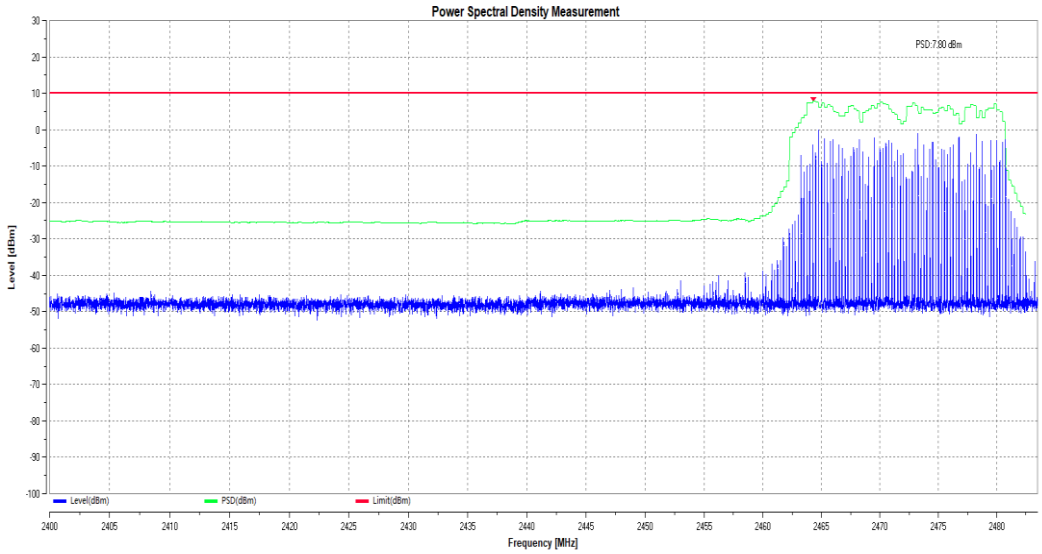
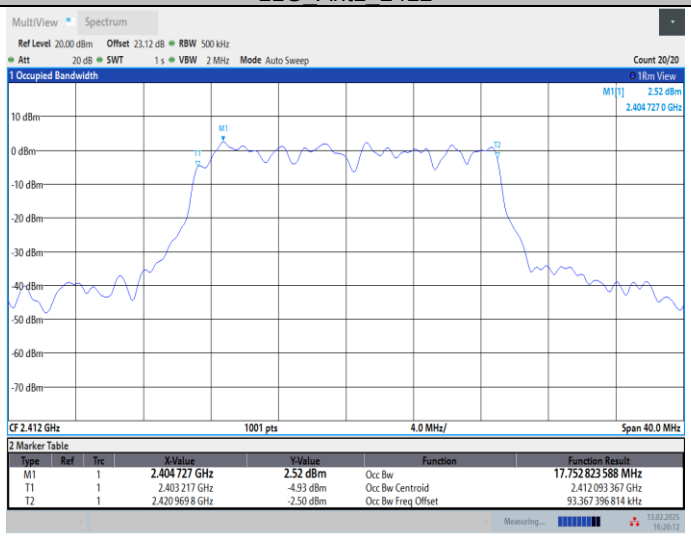


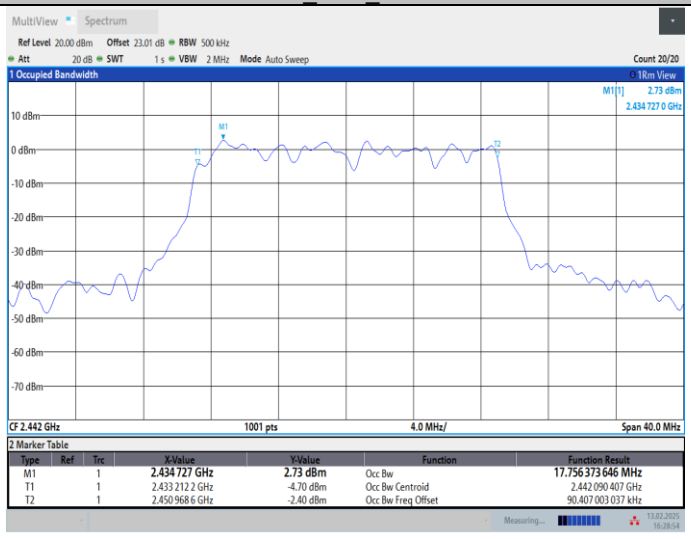
3 Appendix A.3 : Occupied Channel Bandwidth

Test Mode	Antenna	Frequency (MHz)	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11G	Ant1	2412	17.753	2403.2170	2420.9698	2400 to 2483.5	PASS
		2442	17.756	2433.2122	2450.9686	2400 to 2483.5	PASS
		2472	17.757	2463.2150	2480.9720	2400 to 2483.5	PASS
11N20SISO	Ant1	2412	17.753	2403.2168	2420.9701	2400 to 2483.5	PASS
		2442	17.757	2433.2121	2450.9686	2400 to 2483.5	PASS
		2472	17.757	2463.2152	2480.9720	2400 to 2483.5	PASS

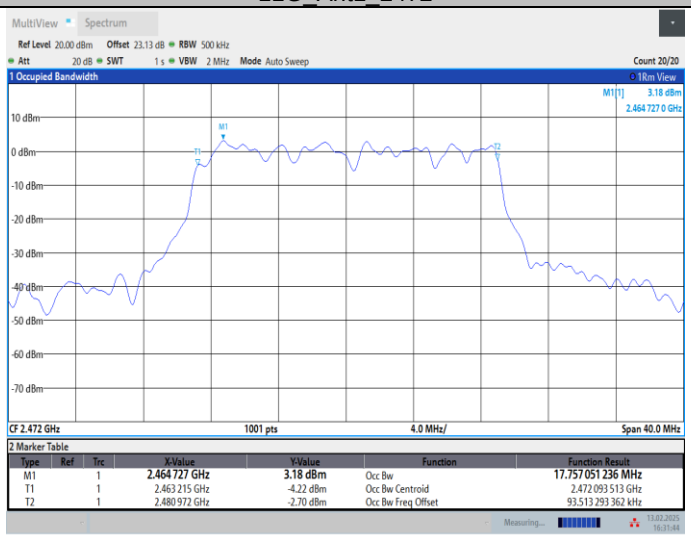
11G_Ant1_2412



11G_Ant1_2442



11G_Ant1_2472



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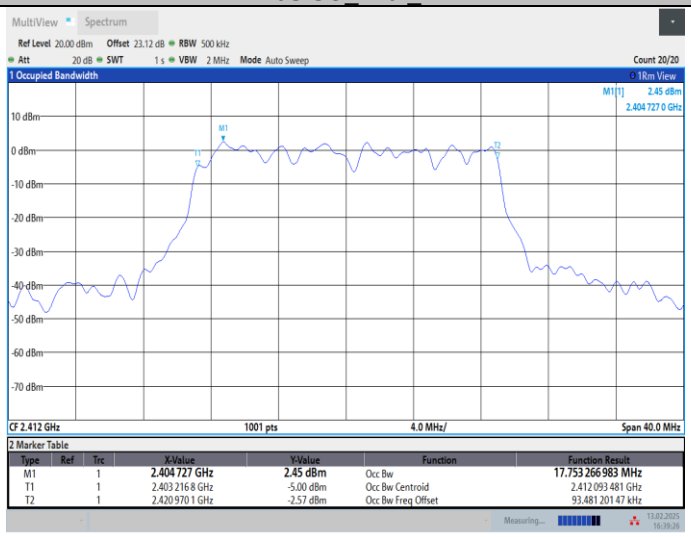
11N20SISO_Ant1_2412



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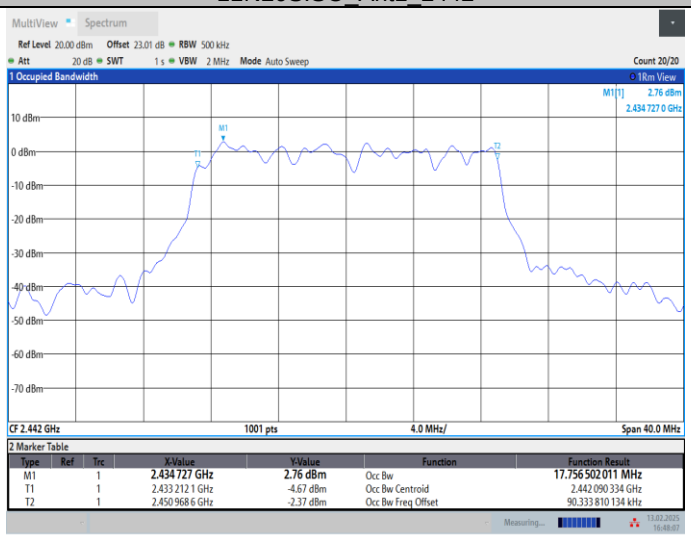
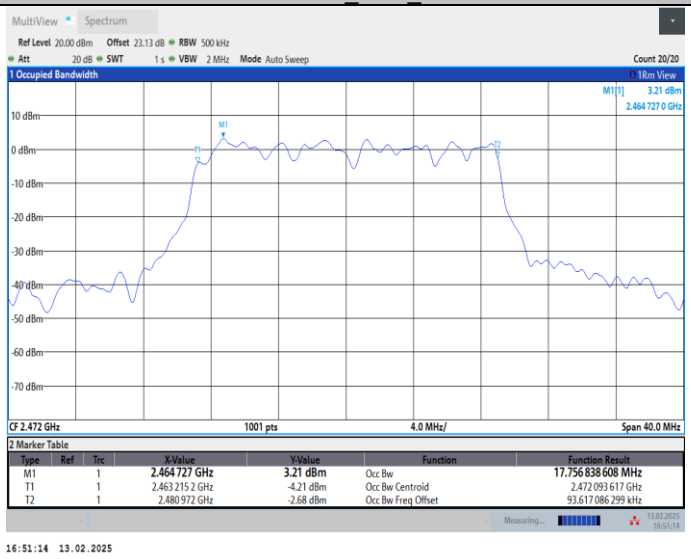
11N20SISO_Ant1_2442



16:48:07 13.02.2025

11N20SISO_Ant1_2472



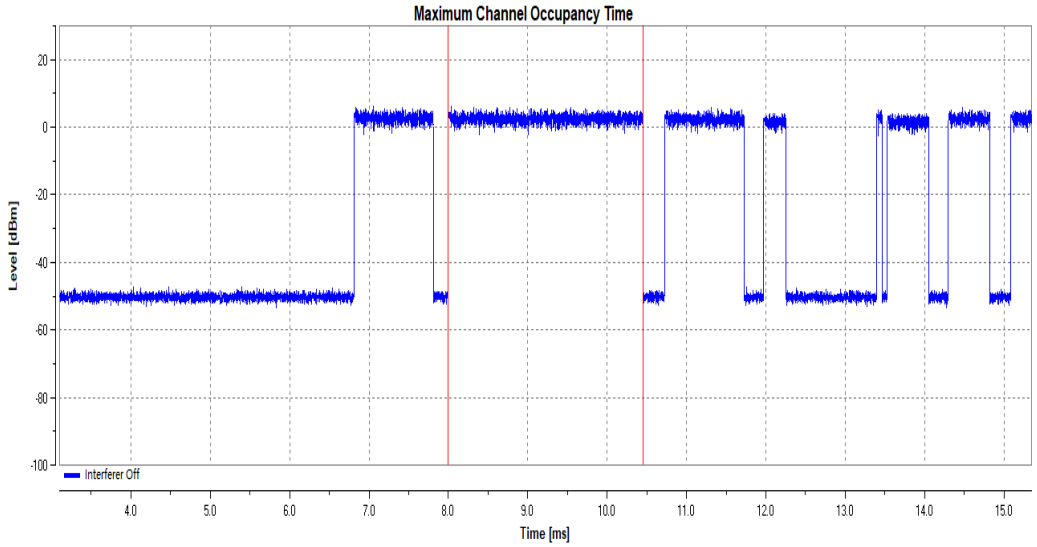
4 Appendix A.4: Adaptivity

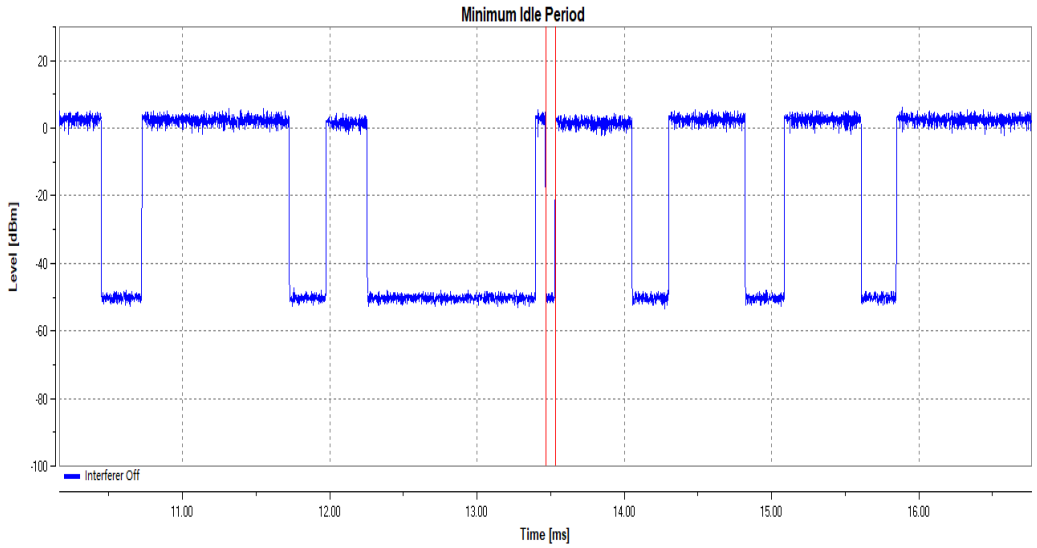
Only the worst case for all test modes reported.

Test Mode	Antenna	Frequency (MHz)	Max.COT [ms]	Limit [ms]	Min.Idle Time [ms]	Limit [ms]	Verdict
11G	Ant1	2412	2.449	13	0.066	0.018	PASS
		2472	1.977	13	0.074	0.018	PASS

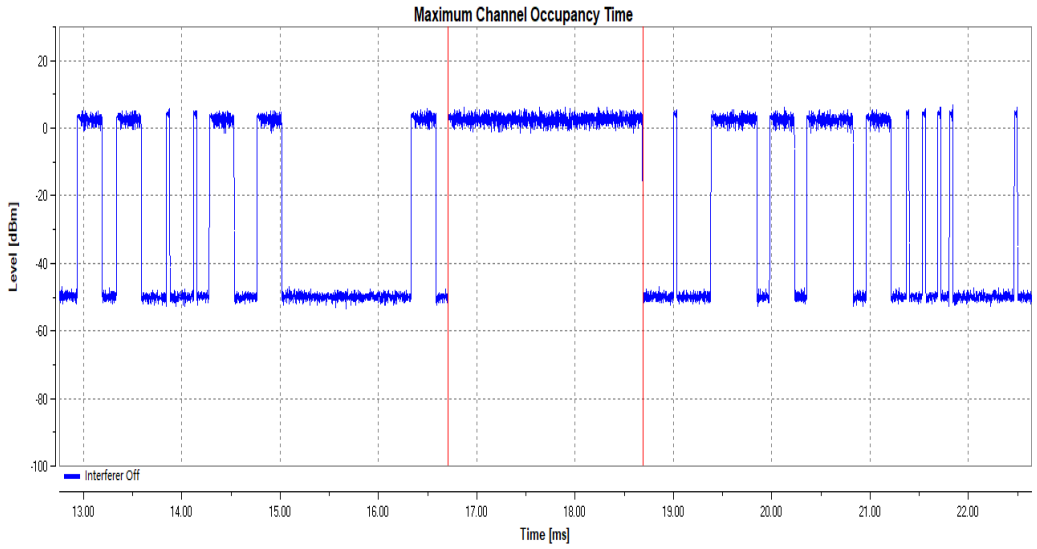
Test Mode	Antenna	Frequency (MHz)	Add Signal Type	Add Signal Time [ms]	Add Signal Level [dbm]	Max. Short Time [%]	Limit [%]	Verdict
11G	Ant1	2412	AWGN	3000	-65.68	3.60	10	PASS
			CW	63000	-33.06	3.60	10	PASS
		2472	AWGN	3000	-66.05	3.60	10	PASS
			CW	63000	-33.06	3.60	10	PASS

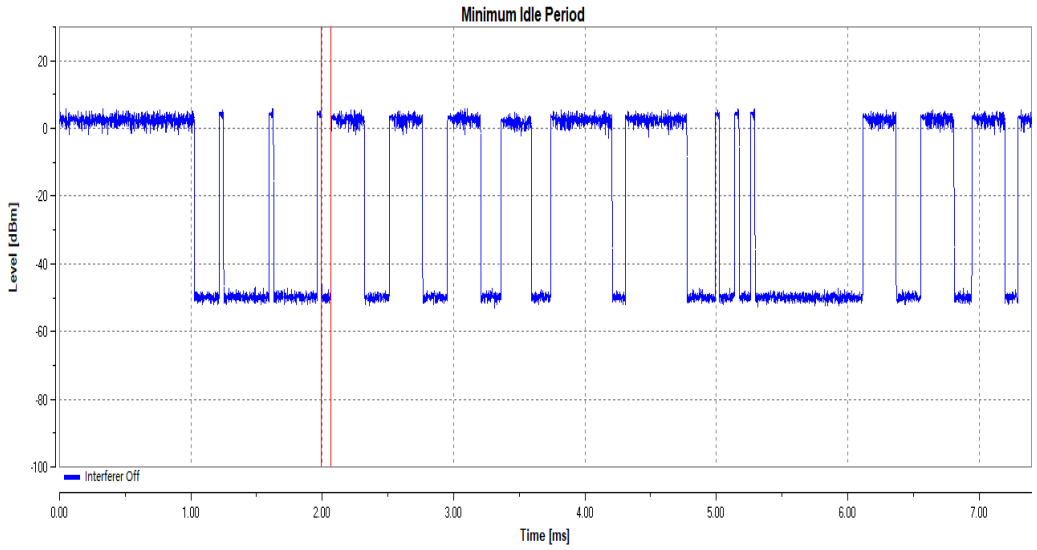
11G_Ant1_2412



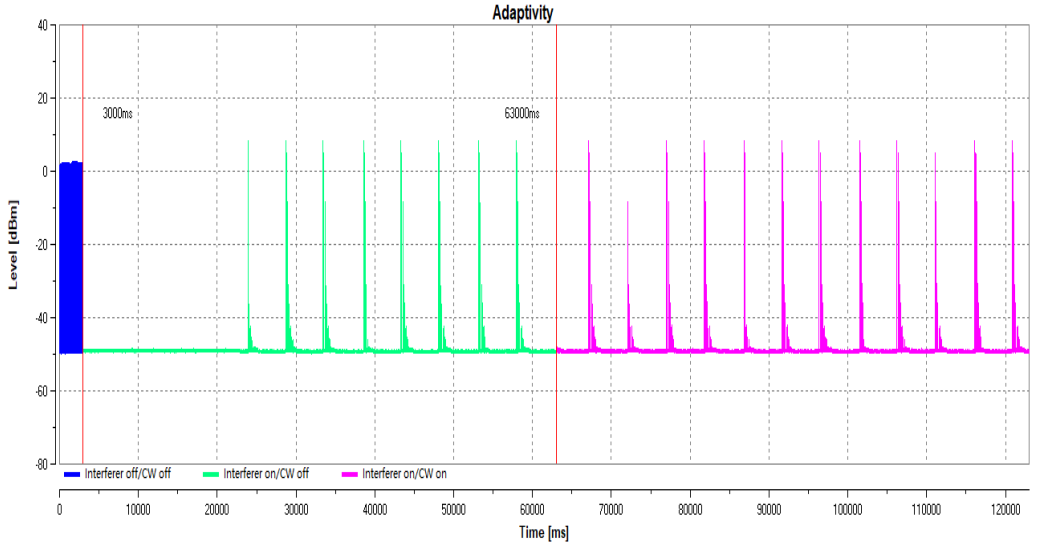


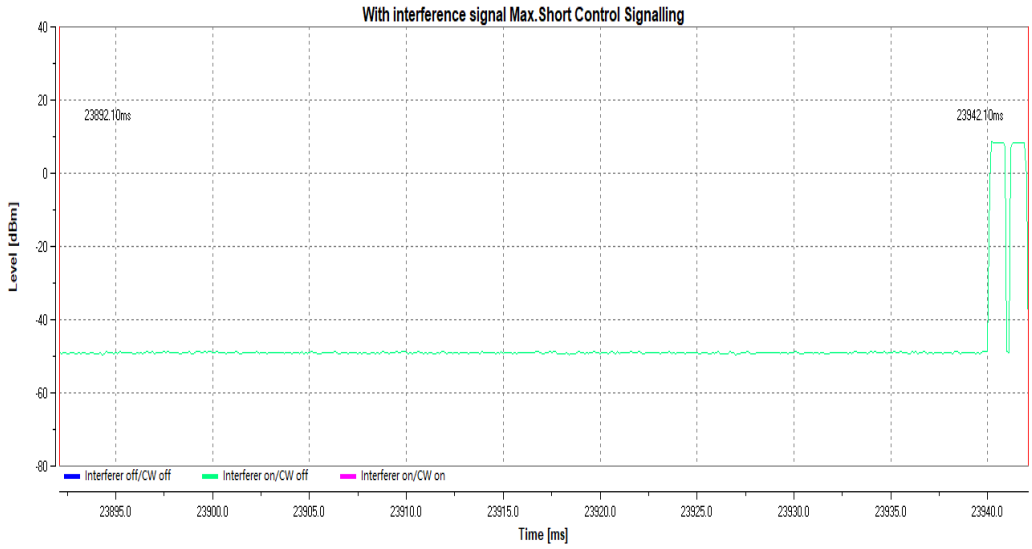
11G_Ant1_2472

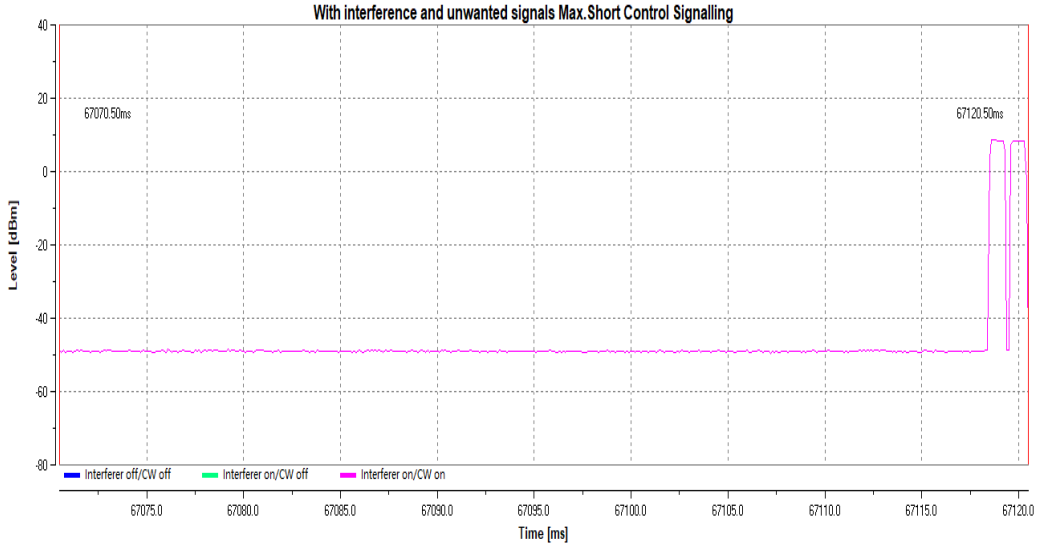




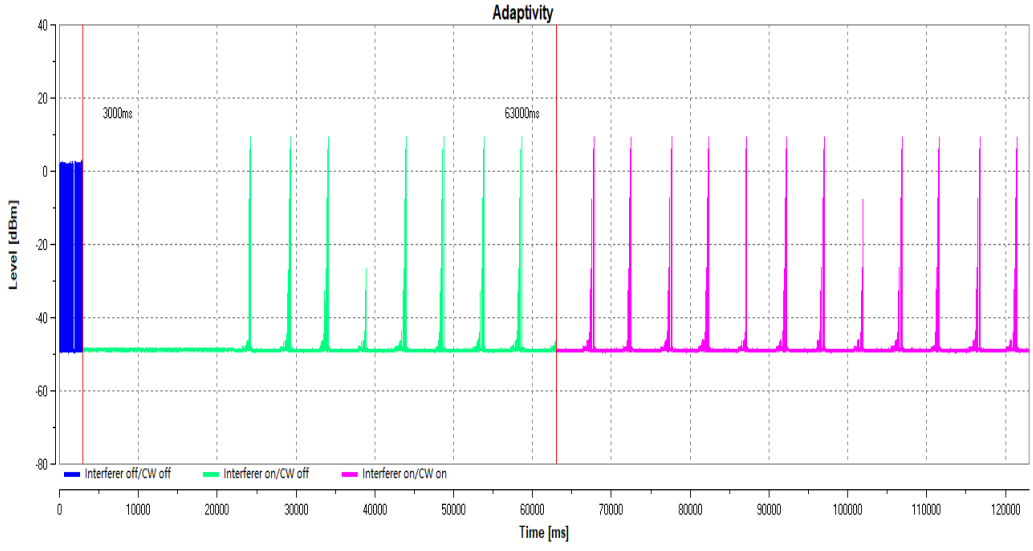
11G_Ant1_2412

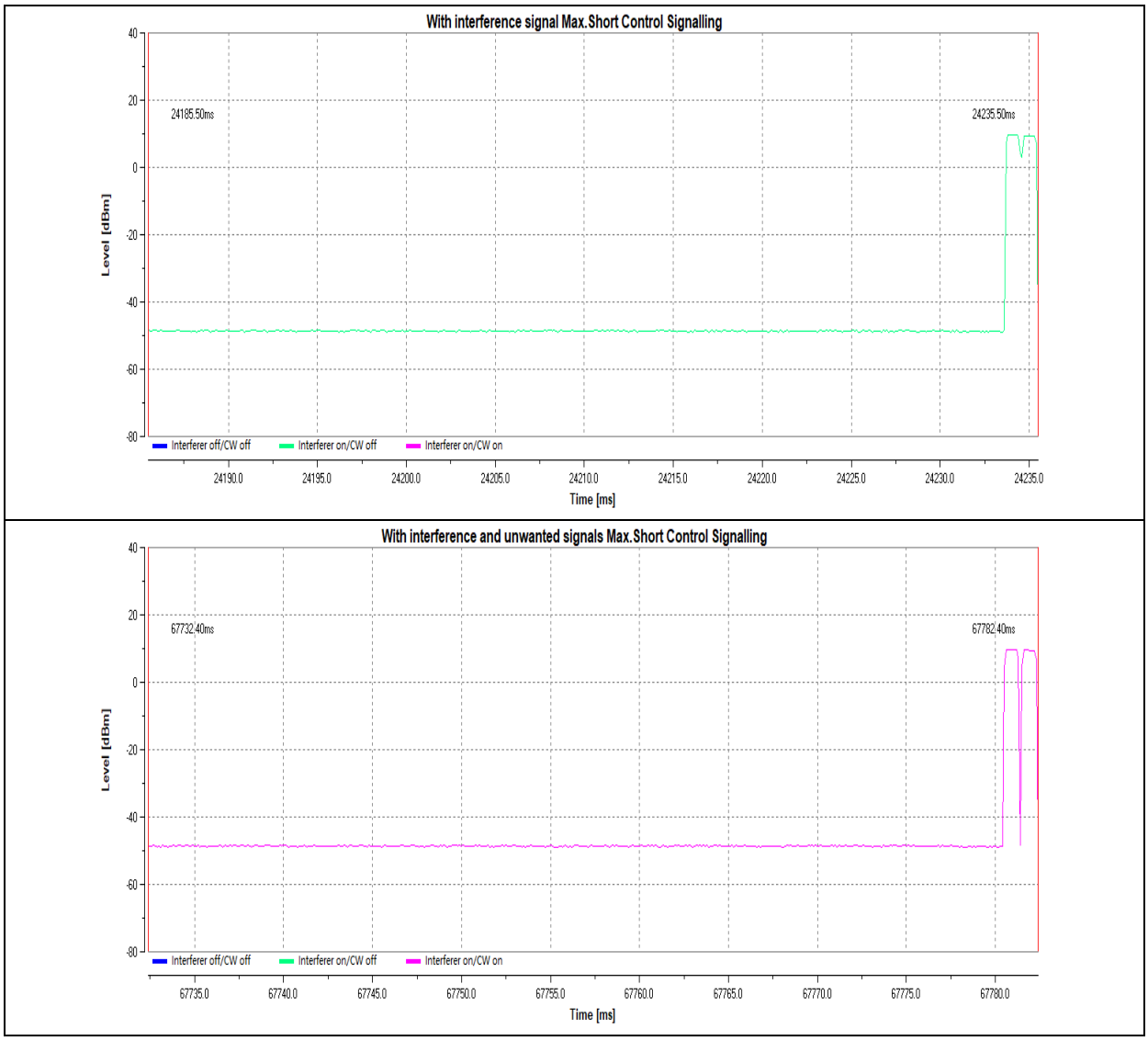






11G_Ant1_2472

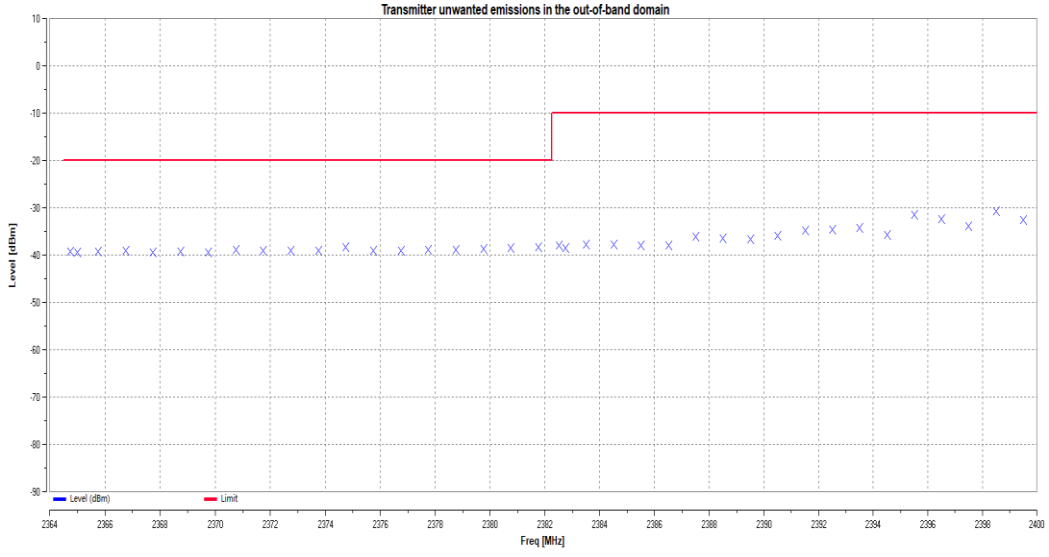



With interference signal Max.Short Control Signalling
24185.50ms
24235.50ms
Level [dBm]
Interferer off/CW off
Interferer on/CW off
Interferer on/CW on
Time [ms]
With interference and unwanted signals Max.Short Control Signalling
67732.40ms
67782.40ms
Level [dBm]
Interferer off/CW off
Interferer on/CW off
Interferer on/CW on
Time [ms]

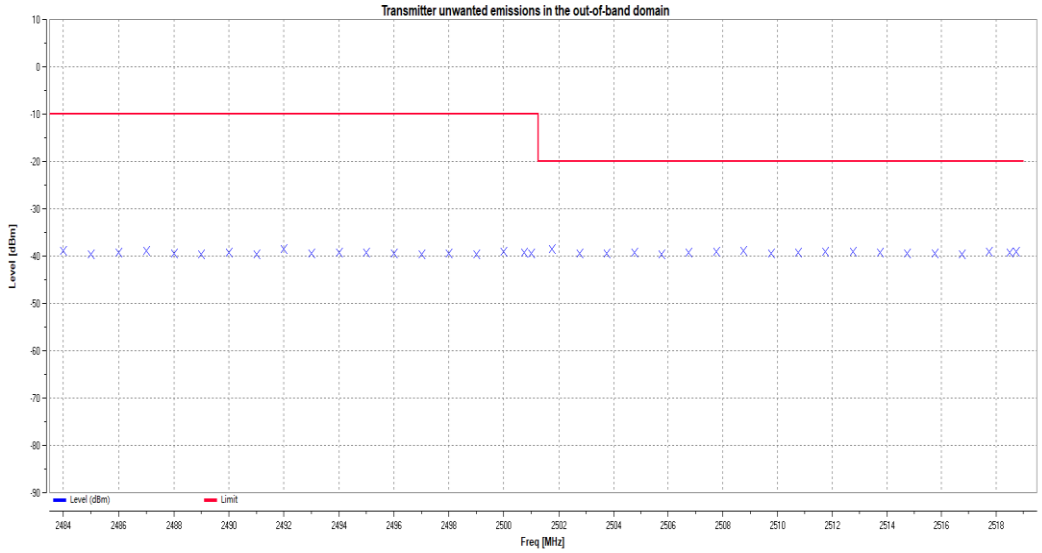
5 Appendix A.5: Transmitter Unwanted Emissions in The Out-of-Band Domain

Test Mode	Antenna	Frequency (MHz)	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11G	Ant1	2412	2381.75	-38.31	-20.00	PASS
			2398.50	-30.82	-10.00	PASS
			2492.00	-38.6	-10.00	PASS
			2501.75	-38.56	-20.00	PASS
		2472	2364.74	-38.96	-20.00	PASS
			2398.50	-38.64	-10.00	PASS
			2485.00	-26.86	-10.00	PASS
			2501.76	-37.95	-20.00	PASS
11N20SISO	Ant1	2412	2381.75	-38.36	-20.00	PASS
			2398.50	-30.92	-10.00	PASS
			2501.00	-38.58	-10.00	PASS
			2504.75	-38.94	-20.00	PASS
		2472	2380.74	-39.21	-20.00	PASS
			2397.50	-38.85	-10.00	PASS
			2485.00	-26.72	-10.00	PASS
			2502.76	-37.68	-20.00	PASS

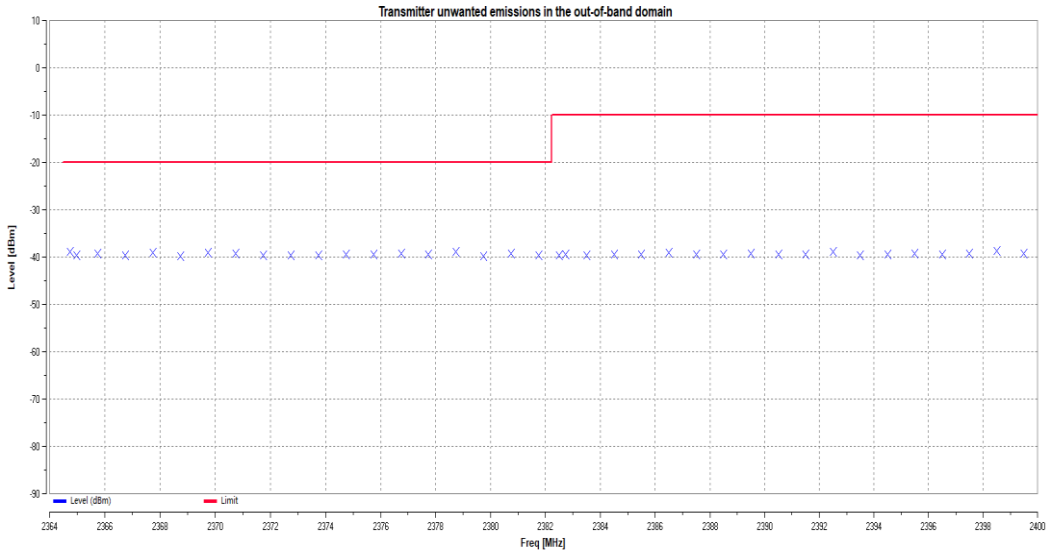
11G_Ant1_2412_2400MHz-2BW to 2400MHz



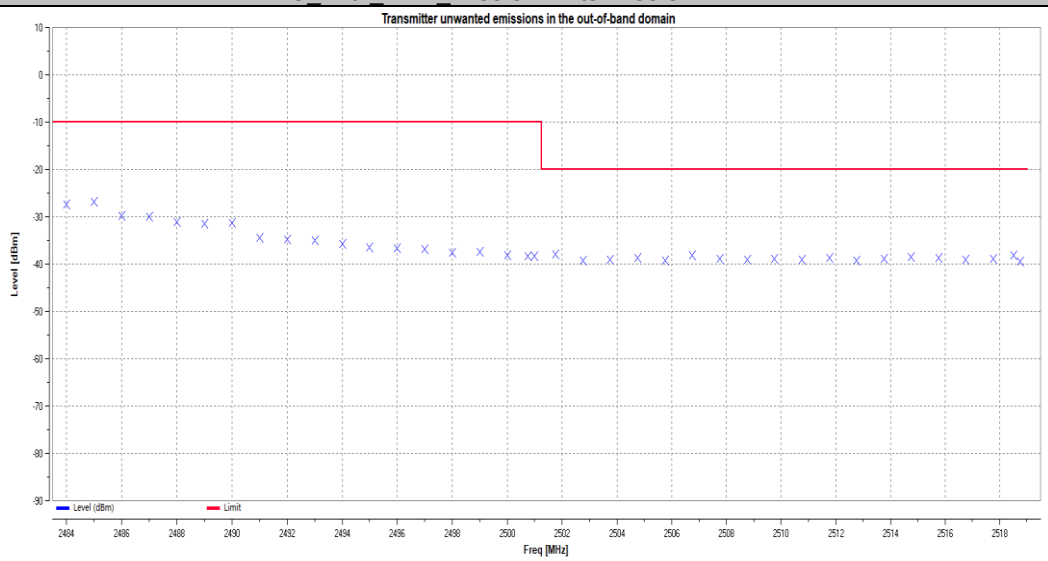
11G_Ant1_2412_2483.5MHz to 2483.5MHz+2BW



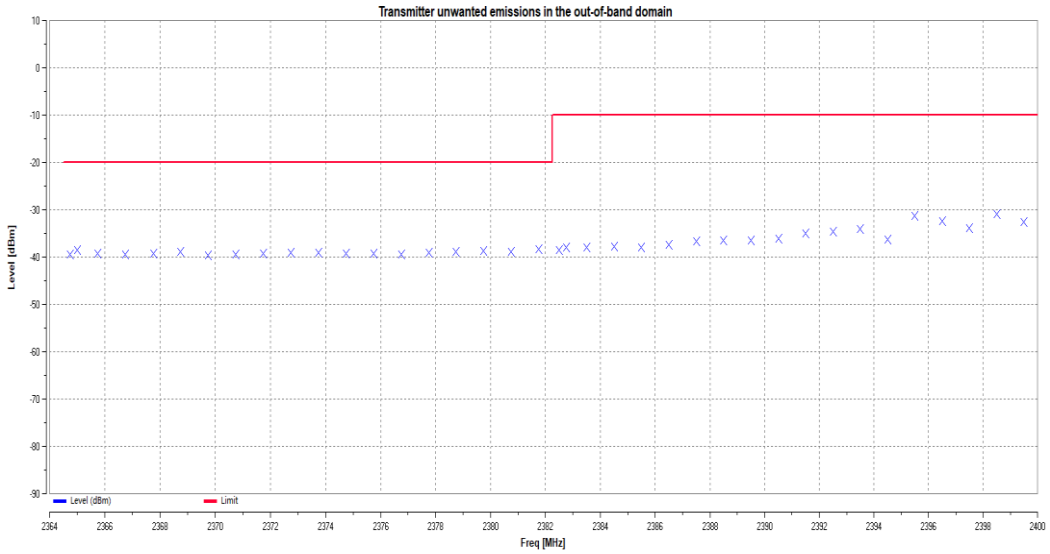
11G_Ant1_2472_2400MHz-2BW to 2400MHz



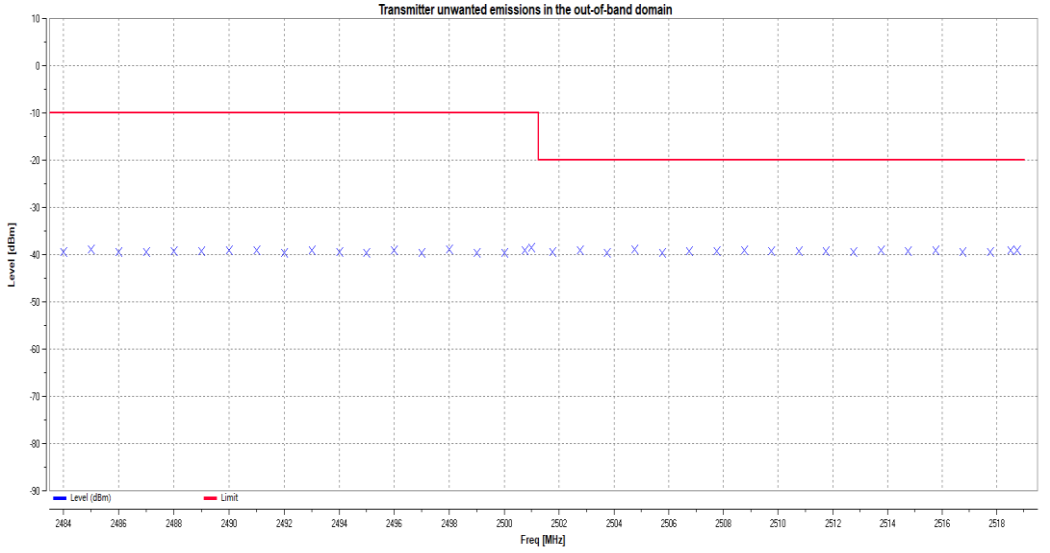
11G_Ant1_2472_2483.5MHz to 2483.5MHz+2BW



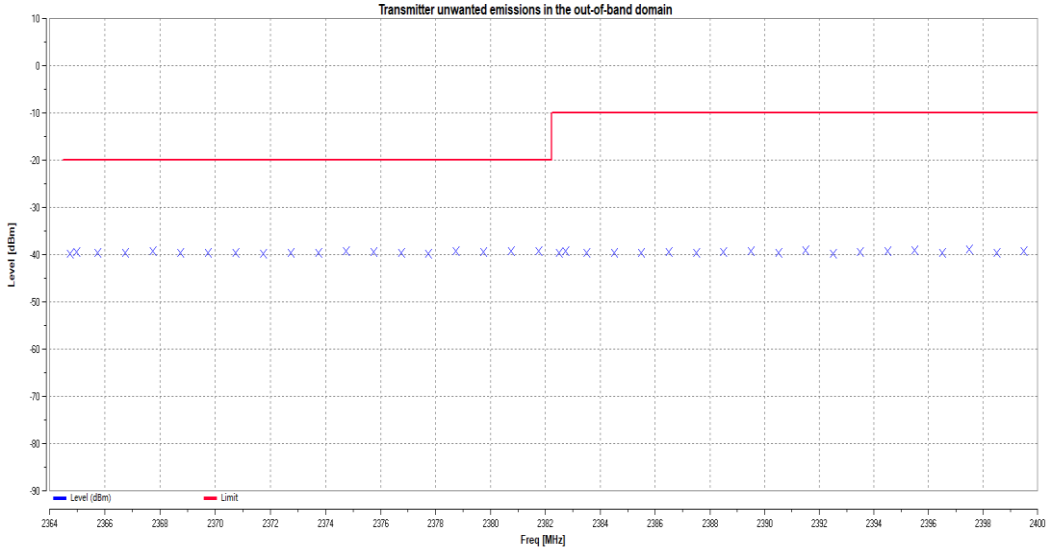
11N20SISO_Ant1_2412_2400MHz-2BW to 2400MHz



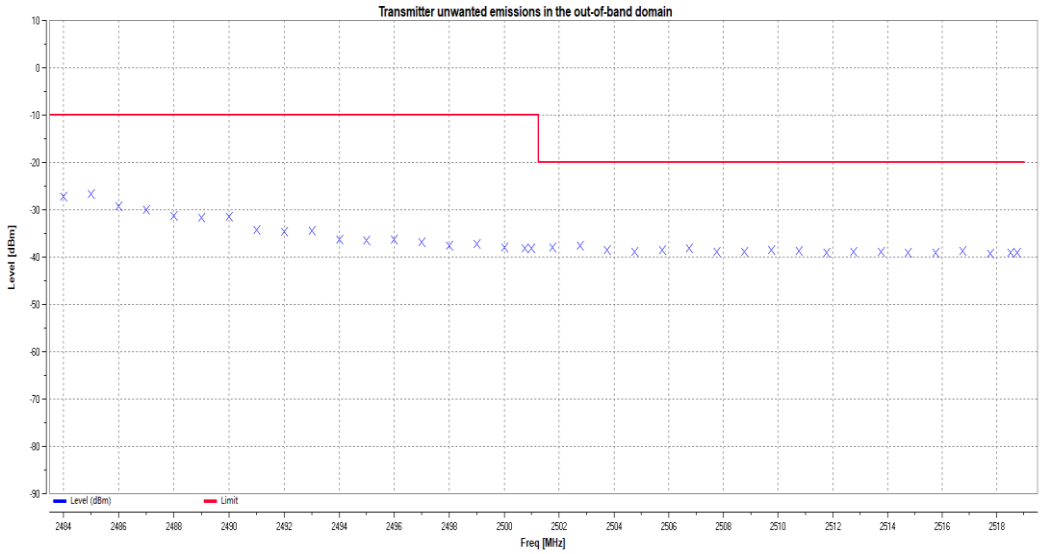
11N20SISO_Ant1_2412_2483.5MHz to 2483.5MHz+2BW



11N20SISO_Ant1_2472_2400MHz-2BW to 2400MHz



11N20SISO_Ant1_2472_2483.5MHz to 2483.5MHz+2BW

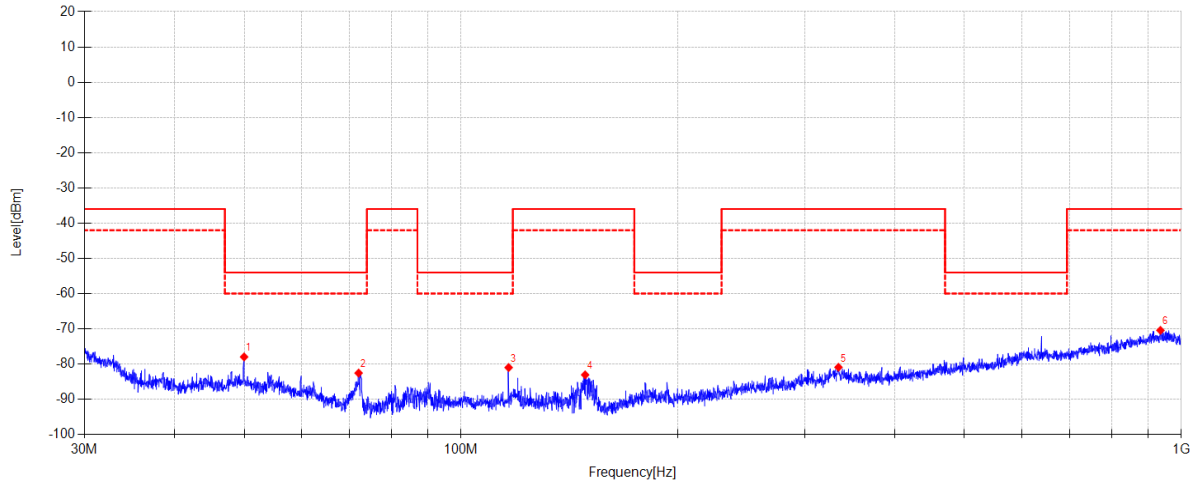


6 Appendix A.6 : Transmitter unwanted emissions

Note: The EUT without antenna connectors and only the worst case for all test modes reported.

Test Date:	2025-01-24	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2412MHz TX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE BELOW1G 2.4G\1		
Memo:	Sample Number:S25011512-001 Power Setting: 1500		

Test Graph

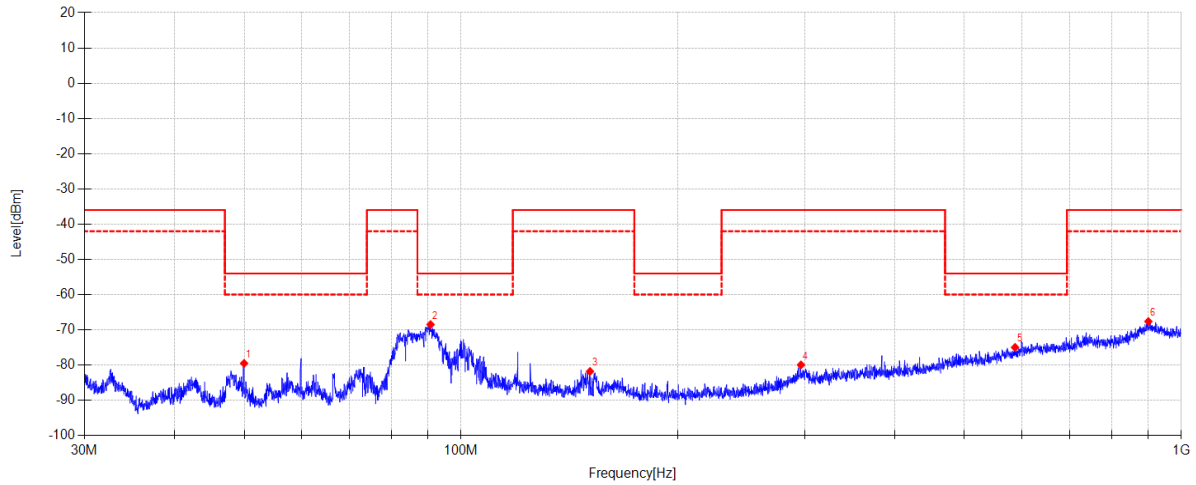


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	49.981	32.06	-110.02	-77.96	-54.00	23.96	PK	Horizontal	ERP
2	72.072	34.96	-117.49	-82.53	-54.00	28.53	PK	Horizontal	ERP
3	116.427	35.15	-116.12	-80.97	-54.00	26.97	PK	Horizontal	ERP
4	148.706	35.12	-118.17	-83.05	-36.00	47.05	PK	Horizontal	ERP
5	334.228	28.86	-109.76	-80.90	-36.00	44.90	PK	Horizontal	ERP
6	935.559	27.45	-97.86	-70.41	-36.00	34.41	PK	Horizontal	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2025-01-24	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2412MHz TX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE BELOW1G 2.4G\2		
Memo:	Sample Number:S25011512-001 Power Setting: 1500		

Test Graph

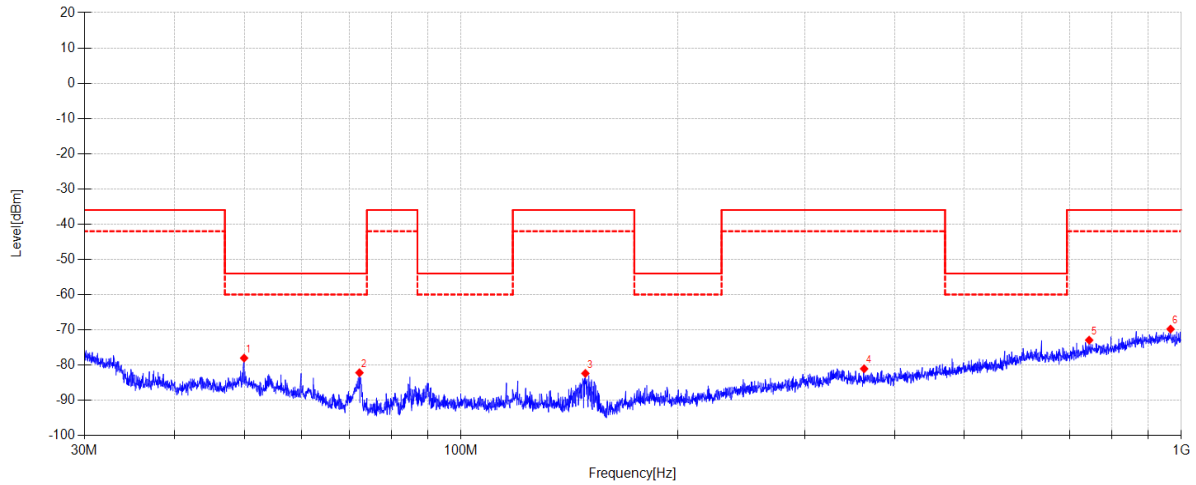


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	49.981	35.32	-114.82	-79.50	-54.00	25.50	PK	Vertical	ERP
2	90.708	43.35	-111.84	-68.49	-54.00	14.49	PK	Vertical	ERP
3	151.018	31.84	-113.63	-81.79	-36.00	45.79	PK	Vertical	ERP
4	296.464	29.43	-109.37	-79.94	-36.00	43.94	PK	Vertical	ERP
5	587.730	27.03	-102.00	-74.97	-54.00	20.97	PK	Vertical	ERP
6	900.166	27.48	-95.10	-67.62	-36.00	31.62	PK	Vertical	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2025-01-24	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2472MHz TX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE BELOW1G 2.4G\3		
Memo:	Sample Number:S25011512-001 Power Setting: 1500		

Test Graph

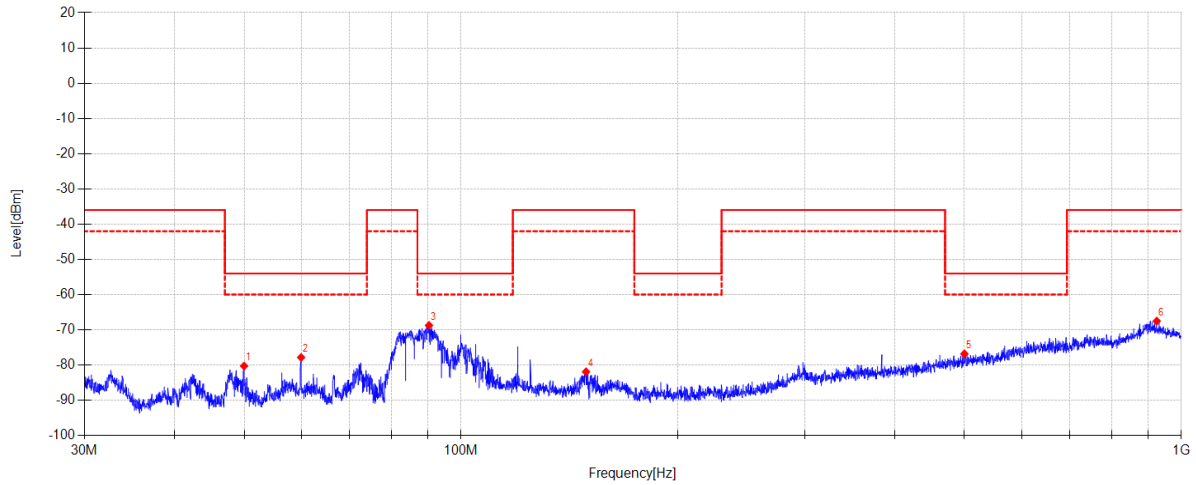


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	49.981	32.01	-110.02	-78.01	-54.00	24.01	PK	Horizontal	ERP
2	72.274	35.32	-117.48	-82.16	-54.00	28.16	PK	Horizontal	ERP
3	148.810	35.82	-118.18	-82.36	-36.00	46.36	PK	Horizontal	ERP
4	362.804	28.03	-109.07	-81.04	-36.00	45.04	PK	Horizontal	ERP
5	744.910	28.75	-101.66	-72.91	-36.00	36.91	PK	Horizontal	ERP
6	966.226	27.98	-97.76	-69.78	-36.00	33.78	PK	Horizontal	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2025-01-24	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2472MHz TX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE BELOW1G 2.4G\4		
Memo:	Sample Number:S25011512-001 Power Setting: 1500		

Test Graph

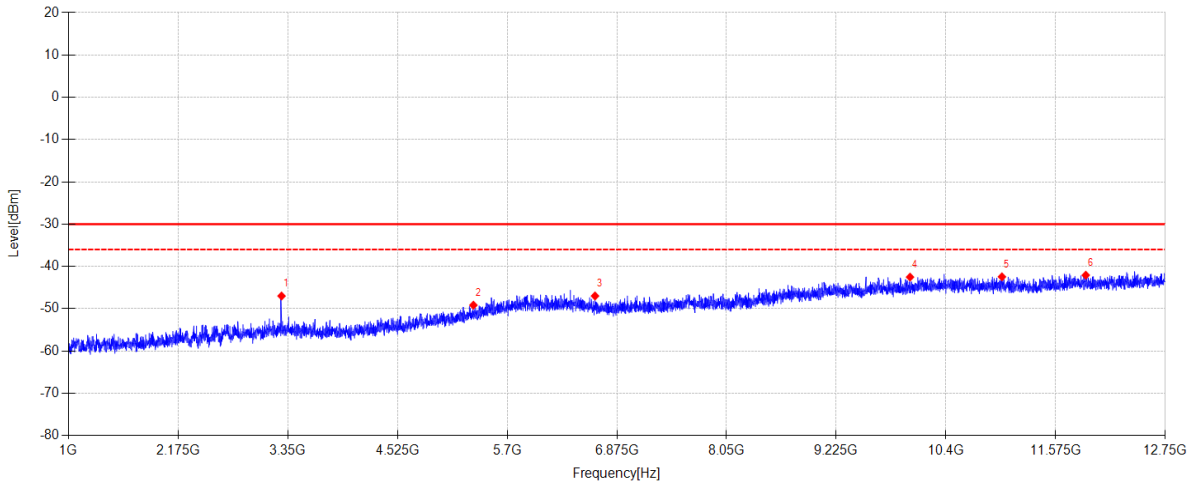


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	49.981	34.56	-114.82	-80.26	-54.00	26.26	PK	Vertical	ERP
2	59.977	36.92	-114.74	-77.82	-54.00	23.82	PK	Vertical	ERP
3	90.264	43.19	-111.92	-68.73	-54.00	14.73	PK	Vertical	ERP
4	149.124	31.68	-113.57	-81.89	-36.00	45.89	PK	Vertical	ERP
5	499.844	27.06	-103.86	-76.80	-54.00	22.80	PK	Vertical	ERP
6	924.473	27.94	-95.45	-67.51	-36.00	31.51	PK	Vertical	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2025-01-23	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2412MHz TX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE ABOVE1G 2.4G\1		
Memo:	Sample Number:S25011512-001 Power Setting: 1500		

Test Graph

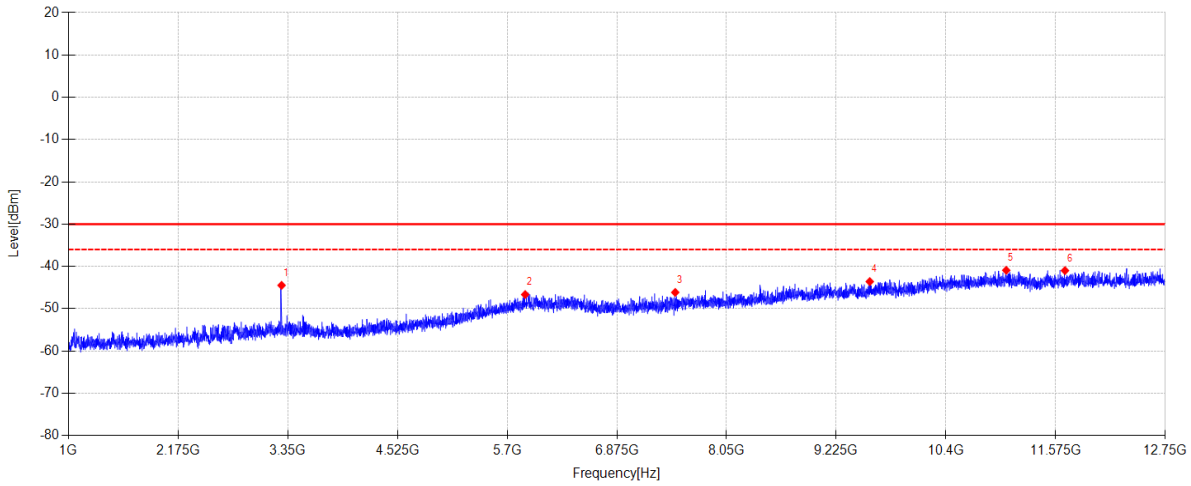


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	3283.025	54.65	-101.64	-46.99	**-30.00**	16.99	PK	Horizontal	EIRP
2	5338.100	47.16	-96.32	-49.16	**-30.00**	19.16	PK	Horizontal	EIRP
3	6641.175	47.48	-94.46	-46.98	**-30.00**	16.98	PK	Horizontal	EIRP
4	10015.775	45.49	-88.00	-42.51	**-30.00**	12.51	PK	Horizontal	EIRP
5	11000.425	45.63	-88.08	-42.45	**-30.00**	12.45	PK	Horizontal	EIRP
6	11898.125	45.84	-87.91	-42.07	**-30.00**	12.07	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2025-01-23	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2412MHz TX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE ABOVE1G 2.4G\2		
Memo:	Sample Number:S25011512-001 Power Setting: 1500		

Test Graph

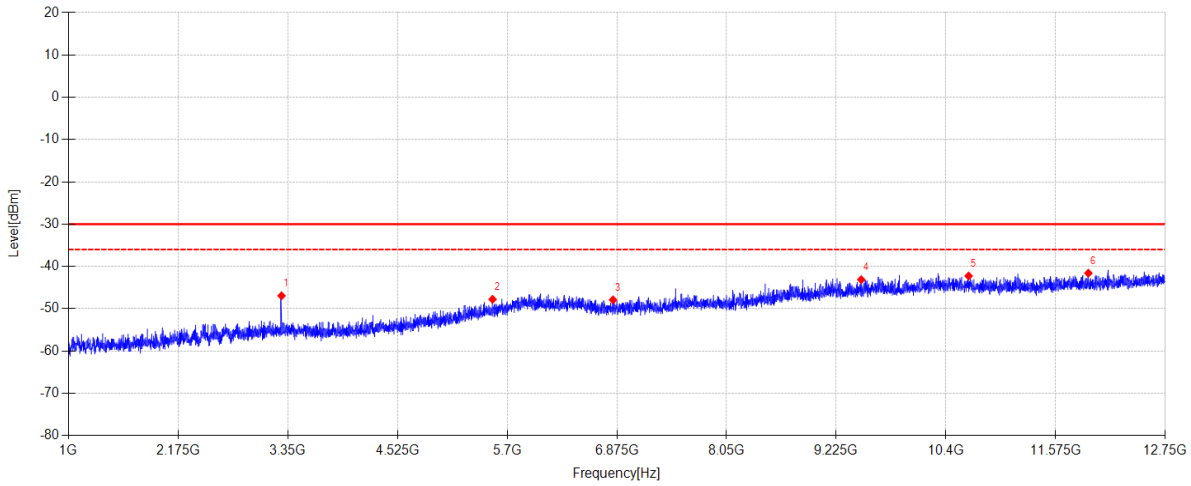


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	3283.025	57.14	-101.61	-44.47	**-30.00**	14.47	PK	Vertical	EIRP
2	5892.700	47.39	-94.03	-46.64	**-30.00**	16.64	PK	Vertical	EIRP
3	7500.100	47.58	-93.72	-46.14	**-30.00**	16.14	PK	Vertical	EIRP
4	9584.550	45.42	-89.00	-43.58	**-30.00**	13.58	PK	Vertical	EIRP
5	11046.250	45.84	-86.75	-40.91	**-30.00**	10.91	PK	Vertical	EIRP
6	11674.875	46.16	-87.14	-40.98	**-30.00**	10.98	PK	Vertical	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2025-01-23	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2472MHz TX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE ABOVE1G 2.4G\3		
Memo:	Sample Number:S25011512-001 Power Setting: 1500		

Test Graph

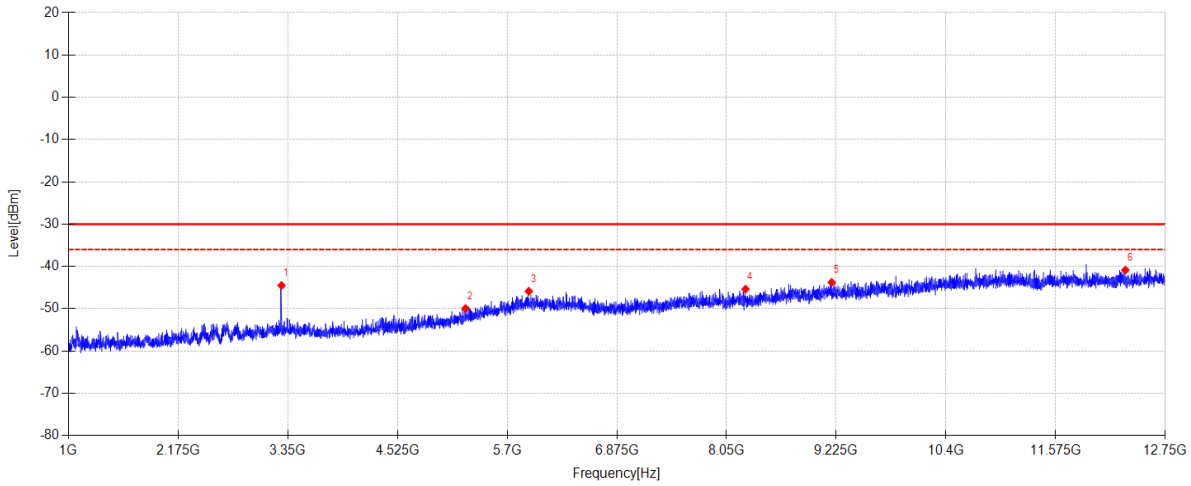


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	3283.025	54.70	-101.64	-46.94	**-30.00**	16.94	PK	Horizontal	EIRP
2	5543.725	47.69	-95.46	-47.77	**-30.00**	17.77	PK	Horizontal	EIRP
3	6833.875	46.83	-94.73	-47.90	**-30.00**	17.90	PK	Horizontal	EIRP
4	9492.900	45.57	-88.69	-43.12	**-30.00**	13.12	PK	Horizontal	EIRP
5	10643.225	45.80	-88.05	-42.25	**-30.00**	12.25	PK	Horizontal	EIRP
6	11926.325	46.32	-87.91	-41.59	**-30.00**	11.59	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2025-01-23	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2472MHz TX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE ABOVE1G 2.4G\4		
Memo:	Sample Number:S25011512-001 Power Setting: 1500		

Test Graph



Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	3283.025	57.11	-101.61	-44.50	**-30.00**	14.50	PK	Vertical	EIRP
2	5253.500	47.10	-97.05	-49.95	**-30.00**	19.95	PK	Vertical	EIRP
3	5931.475	47.99	-93.85	-45.86	**-30.00**	15.86	PK	Vertical	EIRP
4	8253.275	46.31	-91.67	-45.36	**-30.00**	15.36	PK	Vertical	EIRP
5	9176.825	45.70	-89.48	-43.78	**-30.00**	13.78	PK	Vertical	EIRP
6	12322.300	46.64	-87.49	-40.85	**-30.00**	10.85	PK	Vertical	EIRP

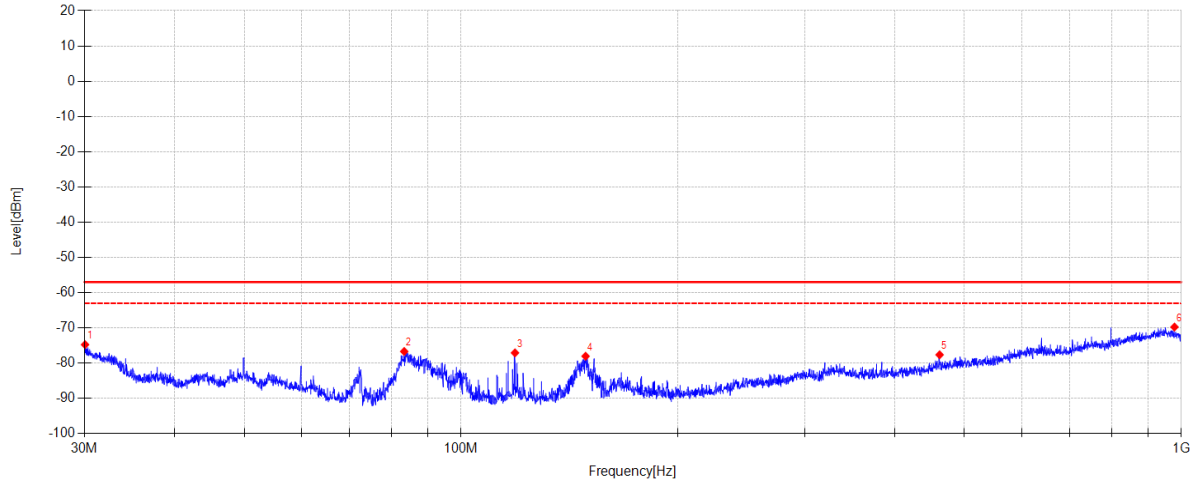
Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

7 Appendix A.7 : Receiver spurious emissions

Note: The EUT without antenna connectors and only the worst case for all test modes reported.

Test Date:	2025-01-24	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2412MHz RX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE BELOW1G 2.4G\7		
Memo:	Sample Number:S25011512-001 Power Setting:NA		

Test Graph



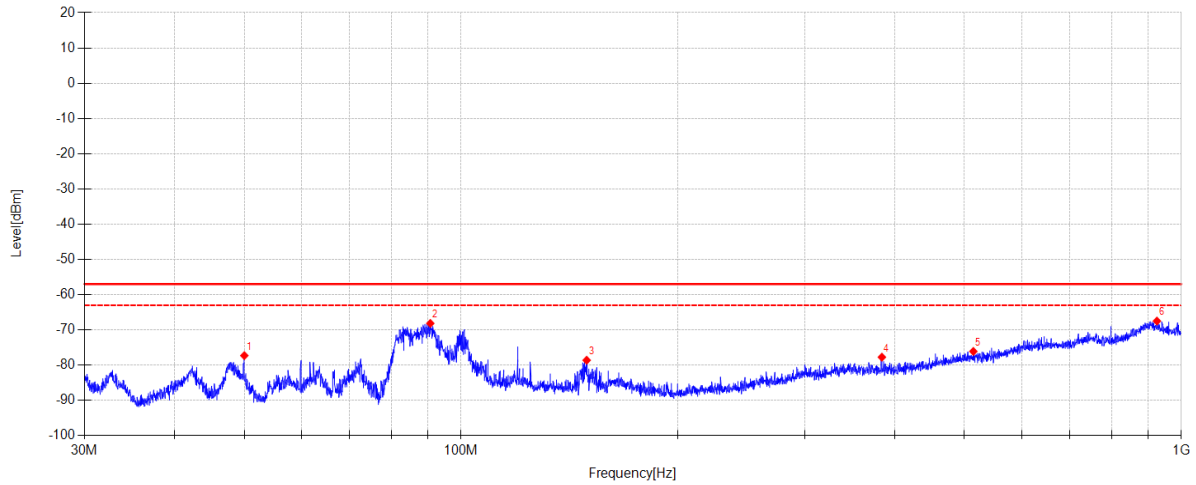
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	30.063	38.35	-113.11	-74.76	-57.00	17.76	PK	Horizontal	ERP
2	83.388	40.51	-117.21	-76.70	-57.00	19.70	PK	Horizontal	ERP
3	118.818	39.18	-116.27	-77.09	-57.00	20.09	PK	Horizontal	ERP
4	148.915	40.14	-118.19	-78.05	-57.00	21.05	PK	Horizontal	ERP
5	461.769	29.88	-107.52	-77.64	-57.00	20.64	PK	Horizontal	ERP
6	978.498	28.23	-97.99	-69.76	-57.00	12.76	PK	Horizontal	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2025-01-24	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2412MHz RX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE BELOW1G 2.4G\8		
Memo:	Sample Number:S25011512-001 Power Setting:NA		

Test Graph

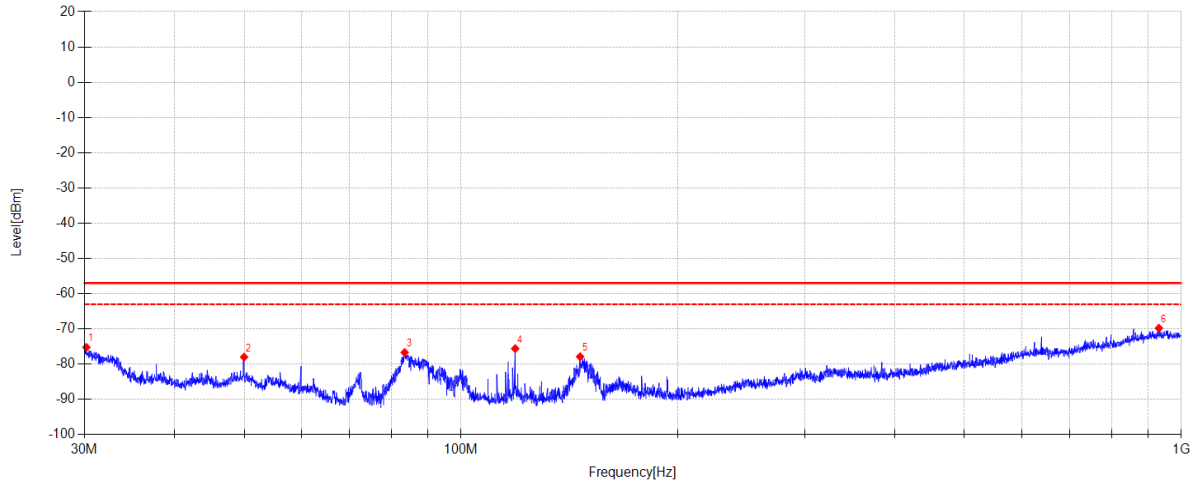


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	50.016	37.52	-114.82	-77.30	-57.00	20.30	PK	Vertical	ERP
2	90.644	43.70	-111.85	-68.15	-57.00	11.15	PK	Vertical	ERP
3	149.438	34.99	-113.60	-78.61	-57.00	21.61	PK	Vertical	ERP
4	384.005	29.24	-106.99	-77.75	-57.00	20.75	PK	Vertical	ERP
5	514.422	27.73	-103.84	-76.11	-57.00	19.11	PK	Vertical	ERP
6	925.122	27.96	-95.45	-67.49	-57.00	10.49	PK	Vertical	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2025-01-24	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2472MHz RX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE BELOW1G 2.4G\5		
Memo:	Sample Number:S25011512-001 Power Setting:NA		

Test Graph

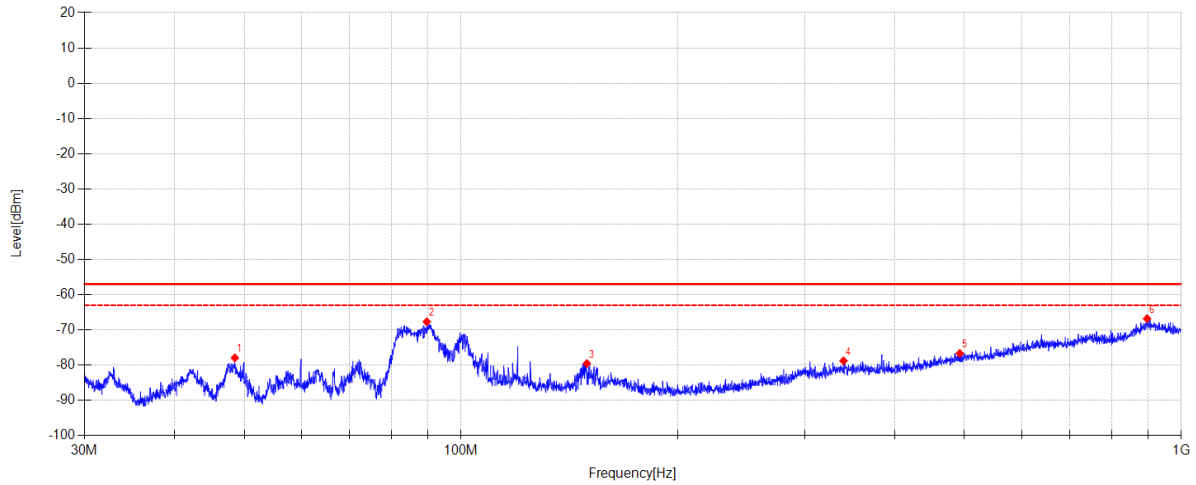


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	30.190	37.86	-113.09	-75.23	-57.00	18.23	PK	Horizontal	ERP
2	49.981	32.02	-110.02	-78.00	-57.00	21.00	PK	Horizontal	ERP
3	83.505	40.51	-117.21	-76.70	-57.00	19.70	PK	Horizontal	ERP
4	118.902	40.68	-116.28	-75.60	-57.00	18.60	PK	Horizontal	ERP
5	146.327	40.13	-118.02	-77.89	-57.00	20.89	PK	Horizontal	ERP
6	930.978	28.18	-97.99	-69.81	-57.00	12.81	PK	Horizontal	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2025-01-24	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2472MHz RX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE BELOW1G 2.4G\6		
Memo:	Sample Number:S25011512-001 Power Setting:NA		

Test Graph

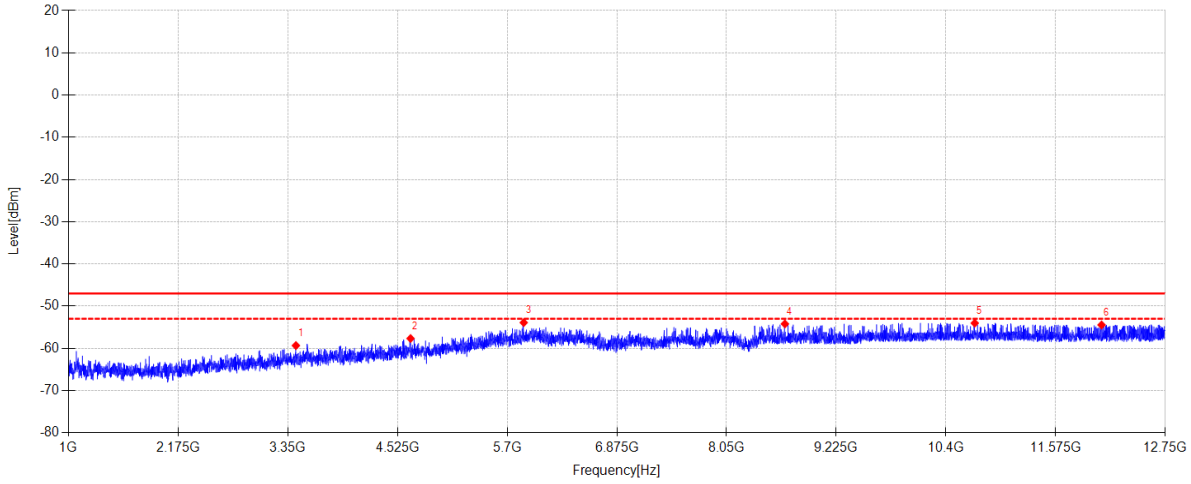


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	48.531	37.02	-114.95	-77.93	-57.00	20.93	PK	Vertical	ERP
2	89.633	44.45	-112.13	-67.68	-57.00	10.68	PK	Vertical	ERP
3	149.543	34.08	-113.61	-79.53	-57.00	22.53	PK	Vertical	ERP
4	339.662	28.90	-107.68	-78.78	-57.00	21.78	PK	Vertical	ERP
5	492.538	27.48	-104.16	-76.68	-57.00	19.68	PK	Vertical	ERP
6	896.387	28.50	-95.32	-66.82	-57.00	9.82	PK	Vertical	ERP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 100 kHz, VBW: 300 kHz, Sweep time: auto.

Test Date:	2025-01-23	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2412MHz RX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE ABOVE1G 2.4G\7		
Memo:	Sample Number:S25011512-001 Power Setting:NA		

Test Graph

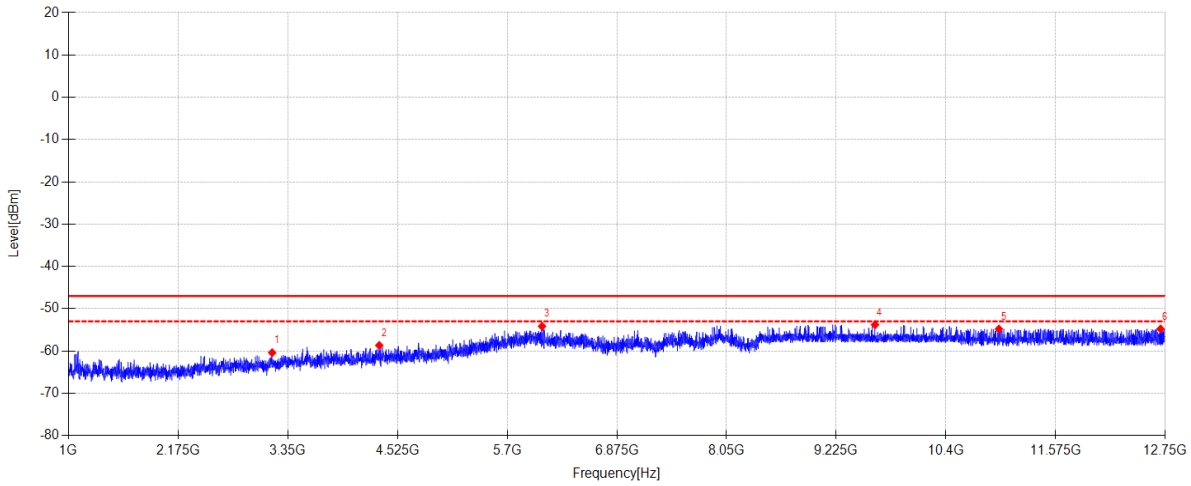


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	3436.950	43.03	-102.37	-59.34	**-47.00**	12.34	PK	Horizontal	EIRP
2	4664.825	41.53	-99.19	-57.66	**-47.00**	10.66	PK	Horizontal	EIRP
3	5877.425	40.53	-94.42	-53.89	**-47.00**	6.89	PK	Horizontal	EIRP
4	8675.100	36.58	-90.78	-54.20	**-47.00**	7.20	PK	Horizontal	EIRP
5	10709.025	34.73	-88.75	-54.02	**-47.00**	7.02	PK	Horizontal	EIRP
6	12067.325	34.22	-88.67	-54.45	**-47.00**	7.45	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2025-01-23	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2412MHz RX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE ABOVE1G 2.4G\8		
Memo:	Sample Number:S25011512-001 Power Setting:NA		

Test Graph

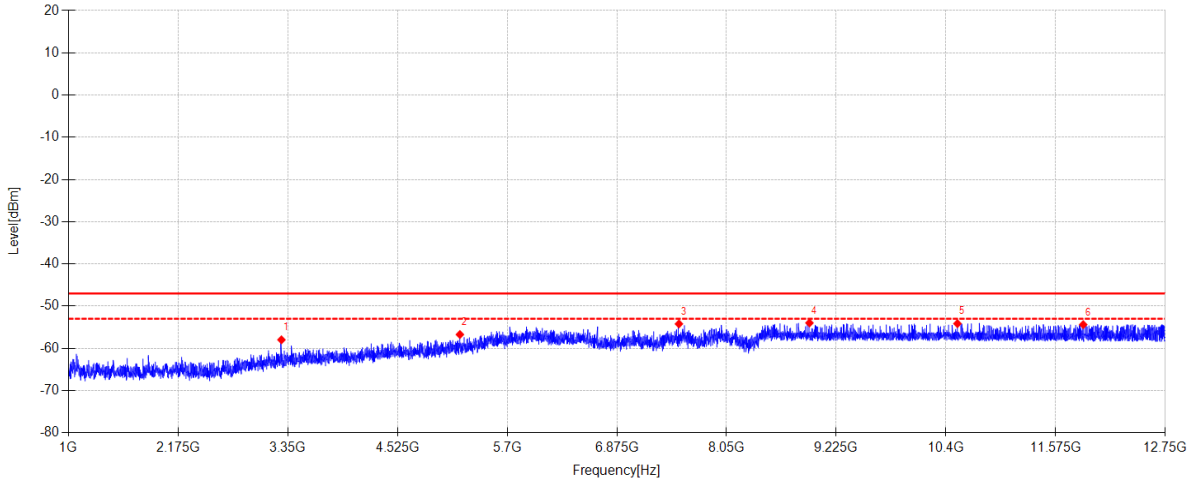


Data List									
NO.	**Freq. [MHz]**	**Reading [dBµV/m]**	**Factor [dB]**	**Level [dBm]**	**Limit [dBm]**	**Margin [dB]**	**Detector**	**Polarity**	**Type**
1	3181.975	42.52	-102.91	-60.39	**-47.00**	13.39	PK	Vertical	EIRP
2	4329.950	41.67	-100.34	-58.67	**-47.00**	11.67	PK	Vertical	EIRP
3	6073.650	39.83	-93.98	-54.15	**-47.00**	7.15	PK	Vertical	EIRP
4	9640.950	35.62	-89.40	-53.78	**-47.00**	6.78	PK	Vertical	EIRP
5	10967.525	32.74	-87.52	-54.78	**-47.00**	7.78	PK	Vertical	EIRP
6	12699.475	33.69	-88.47	-54.78	**-47.00**	7.78	PK	Vertical	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2025-01-23	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2472MHz RX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE ABOVE1G 2.4G\5		
Memo:	Sample Number:S25011512-001 Power Setting:NA		

Test Graph



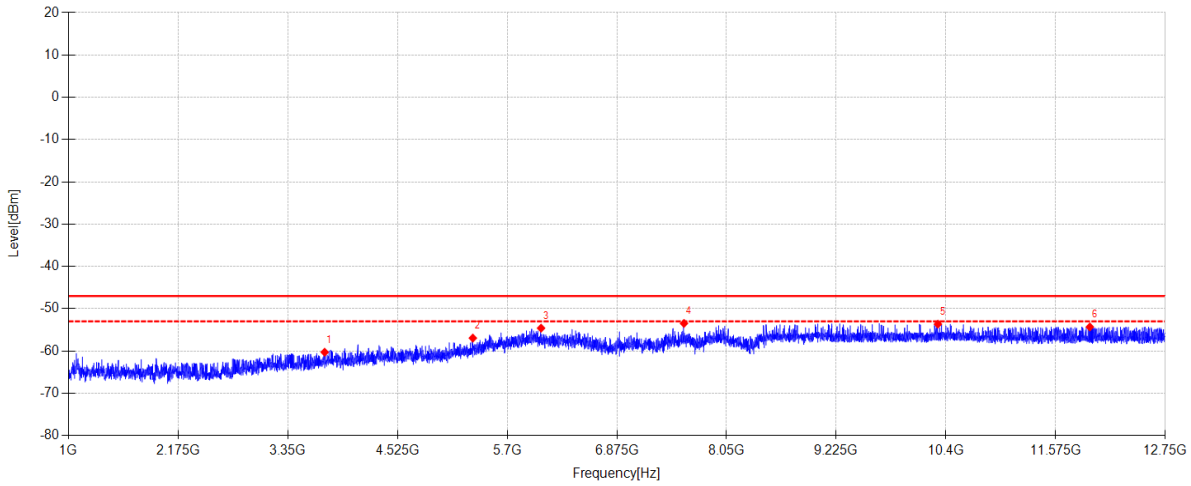
Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	3281.850	44.76	-102.73	-57.97	**-47.00**	10.97	PK	Horizontal	EIRP
2	5193.575	40.65	-97.37	-56.72	**-47.00**	9.72	PK	Horizontal	EIRP
3	7540.050	40.00	-94.20	-54.20	**-47.00**	7.20	PK	Horizontal	EIRP
4	8938.300	35.89	-89.87	-53.98	**-47.00**	6.98	PK	Horizontal	EIRP
5	10523.375	34.58	-88.71	-54.13	**-47.00**	7.13	PK	Horizontal	EIRP
6	11871.100	34.31	-88.68	-54.37	**-47.00**	7.37	PK	Horizontal	EIRP

Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Date:	2025-01-23	**Tested By**:	Zhong Nan
EUT:	Table Wireless Speaker	**Model Number**:	EDF100092
Test Mode:	N20 2472MHz RX Mode	**Power Supply**:	AC 230V/50Hz
Condition:	Temp:23.0°C;Humi:42.7%	**Test Site**:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q25011512-1E\CE ABOVE1G 2.4G\6		
Memo:	Sample Number:S25011512-001 Power Setting:NA		

Test Graph



Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Detector	Polarity	Type
1	3744.800	41.42	-101.70	-60.28	**-47.00**	13.28	PK	Vertical	EIRP
2	5332.225	40.16	-97.10	-56.94	**-47.00**	9.94	PK	Vertical	EIRP
3	6063.075	39.38	-93.97	-54.59	**-47.00**	7.59	PK	Vertical	EIRP
4	7594.100	40.43	-93.90	-53.47	**-47.00**	6.47	PK	Vertical	EIRP
5	10314.225	34.92	-88.57	-53.65	**-47.00**	6.65	PK	Vertical	EIRP
6	11941.600	33.77	-88.08	-54.31	**-47.00**	7.31	PK	Vertical	EIRP

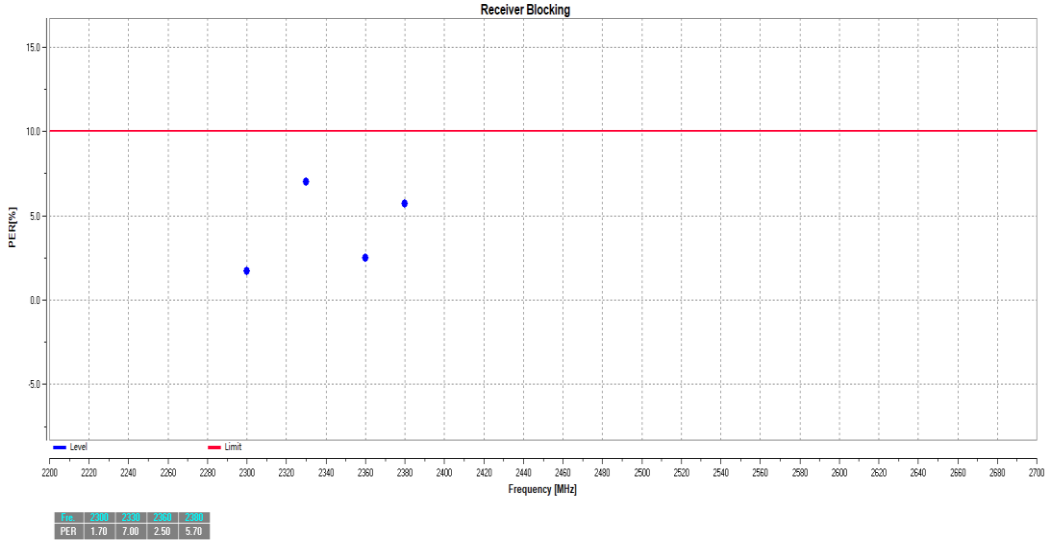
Note:
1. Level = Reading + Factor.
2. Factor = Antenna Factor + Cable Loss + Filter Factor - Preamp Gain + Site Loss Factor - 107.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

8 Appendix A.8: Receiver Blocking

Remark: EUT is category 1 receiver.

Test Mode	Antenna	Frequency (MHz)	Pmin [dBm]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
11N20SISO	Ant1	2412	---	-72.06	2300	-32.06	1.70	≤10	PASS
			---	-72.06	2330	-32.06	7.00	≤10	PASS
			---	-72.06	2360	-32.06	2.50	≤10	PASS
			---	-66.06	2380	-32.06	5.70	≤10	PASS
		2472	---	-66.06	2504	-32.06	1.30	≤10	PASS
			---	-72.06	2524	-32.06	1.20	≤10	PASS
			---	-72.06	2584	-32.06	1.30	≤10	PASS
			---	-72.06	2674	-32.06	1.70	≤10	PASS

11N20SISO_Ant1_2412



11N20SISO_Ant1_2472

