TEST REPORT

Applicant/Manufacturer:	Shenzhen Huafurui Technology Co., Ltd.
Address:	Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China
Report Number:	2601R49433E-RF-22C

Test Standard (s)

ETSI EN 300 328 V2.2.2 (2019-07)

Sample Description

Product Type:	Smartphone
Model No.:	KINGKONG ES 5
Multiple Model(s) No.:	N/A
Trade Mark:	CUBOT
Date Received:	2026-03-08
Issue Date:	2026-05-29

Test Result:	Pass▲

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

Prepared and Checked By:

GaLa Liu
RF Engineer

Approved By:

Jim Cheng
RF Supervisor

BAY AREA COMPLIANCE LABORATORY CORP. BACL COMPLIANCE AND VERIFICATION

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601R49433E-RF-22C	Original Report	2026-05-29

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	2412-2472MHz
Mode	802.11b/g/n20
Maximum EIRP	16.75 dBm
Modulation Technique	DSSS, OFDM
Antenna Specification#	0.9 dBi(It is provided by the manufacturer)
Voltage Range	DC 5/9V from adapter or DC 3.91V from Battery
Sample serial number	3IUC-9 for Radiated Emissions Test 3IUC-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Normal/Extreme Condition#	N.V.: Nominal Voltage: 3.91V_{DC} L.T.: Low Temperature -10℃ N.T.: Normal Temperature +25℃ H.T.: High Temperature +40℃ Note: the extreme test condition was declared by manufacturer.
Adapter Information	Model: TD-203G200170VF01 Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5V/3A, 9V/3A, 12V/2.5A, 15V/2A, 20V/1.5A PPS: 3.3V-16V/2A, 3.3V-11V/3A

Objective

This test report is in accordance with ETSI EN 300 328 V2.2.2 (2019-07), Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum

The objective is to determine the compliance of EUT with ETSI EN 300 328 V2.2.2 (2019-07).

Measurement Uncertainty

Item	Frequency Range		Expanded Measurement uncertainty
Spurious Emissions, Radiated	30MHz~1000MHz	Horizontal	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz	Vertical	6.28dB(k=2, 95% level of confidence)
	1GHz~6GHz	/	6.18dB(k=2, 95% level of confidence)
	6GHz~18GHz	/	6.62dB(k=2, 95% level of confidence)
Occupied Channel Bandwidth	/		52.29kHz(k=1.96, 95% level of confidence)
Power Spectral Density	/		2.09dB(k=1.96, 95% level of confidence)
RF output power, conducted	/		1.57dB(k=1.96, 95% level of confidence)
Unwanted Emission, conducted	/		2.48dB(k=1.96, 95% level of confidence)
Temperature	/		±0.4℃
Supply voltages	/		DC±0.4%;AC±1%
Humidity	/		±2%

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

Each test item follows test standards and with no deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For Wi-Fi mode, total 13 channels are provided to test:

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

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

EUT Exercise Software

Exercise Software#		Engineering mode		
Mode	Data rate	Power Level#		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	16	15	15
802.11g	6Mbps	15	14	14
802.11n20	MCS0	15	14	14

Note: The worst-case data rates are determined to be as above for each mode based upon investigation by measuring the power and PSD across all data rates bandwidths, and modulations.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT.

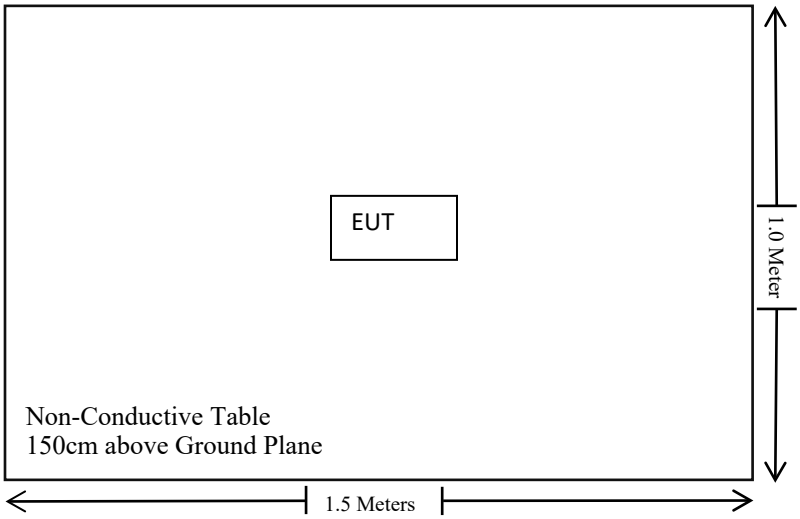
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To
/	/	/	/

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

ETSI EN 300 328 V2.2.2 (2019-07)	Description of Test	Test Result
§4.3.2.2	RF output power	Compliant
§ 4.3.2.3	Power Spectral Density	Compliant
§ 4.3.2.4	Duty Cycle, Tx-sequence, Tx-gap	Not Applicable
§ 4.3.2.5	Medium Utilization (MU) factor	Not Applicable
§ 4.3.2.6	Adaptivity	Compliant
§ 4.3.2.7	Occupied Channel Bandwidth	Compliant
§ 4.3.2.8	Transmitter unwanted emissions in the out-of-band domain	Compliant
§ 4.3.2.9	Transmitter unwanted emissions in the spurious domain	Compliant
§ 4.3.2.10	Receiver spurious emissions	Compliant
§ 4.3.2.11	Receiver Blocking	Compliant
§ 4.3.2.12	Geo-location capability	Not Applicable**

Note:

The supplier declared that the equipment is adaptive equipment
Not Applicable – This item only for non-adaptive equipment
Not Applicable** –The supplier declared that the equipment has no this function.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
Sonoma instrument	Pre-amplifier	310 N	186238	2025/09/08	2026/09/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Chamber A Cable	Cable A1	Cable A1	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A2	Cable A2	2025/09/08	2026/09/07
TDK	Chamber	Chamber A	2#	2023/07/12	2026/07/11
COM-POWER	Dipole Antenna	3121C	9209-860	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/09/01	2026/08/31
A.H.System	Preamplifier	PAM-0118P	489	2025/09/08	2026/09/07
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
The Electro-Mechanics Co.	Horn Antenna	3115	9107-3694	2024/06/06	2027/06/05
Unknown	Chamber B Cable	Cable B1	Cable B1	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B2	Cable B2	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B3	Cable B3	2025/09/08	2026/09/07
Keysight	MXG Vector Signal Generator	N5182B	MY53051503	2025/09/18	2026/09/17
JD	Filter Switch Unit	DT7220FSU	DS79906	2025/08/12	2026/08/11
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2025/08/12	2026/08/11
TDK	Chamber	Chamber B	1#	2023/07/14	2026/07/13

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
BACL	Temp&Humi Test Chamber	BTH-150-40	30145	2025/09/11	2026/09/10
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	146520	2025/09/18	2026/09/17
Tonscend	RF control Unit	JS0806-2	19D8060154	2025/07/18	2026/07/17
Tonscend	Test software	JS1120-3	V3.3.38	NCR	NCR
Keysight	MXA Signal Analyzer	N9020A	MY48490106	2025/7/29	2026/7/29
Keysight	MXG Vector Signal Generator	N5182B	MY53051503	2025/09/18	2026/09/17
Agilent	Signal Generator	N5183A	MY50140588	2025/09/18	2026/09/17
Unknown	10dB Attenuator	Unknown	F-03-EM224	2025/06/26	2026/06/25

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

REQUIREMENTS AND TEST PROCEDURES

RF Output Power

Applicable Standard

This requirement applies to all types of equipment using wide band modulations other than FHSS.

The RF output power is defined as the mean equivalent isotropic radiated power (e.i.r.p.) of the equipment during a transmission burst.

Limit

The RF output power for non-FHSS equipment shall be equal to or less than 20 dBm.

NOTE: For Non-adaptive FHSS equipment, the manufacturer may have declared a reduced RF Output Power (see clause 5.4.1 m)) and associated Duty Cycle (see clause 5.4.1 e)) that will ensure that the equipment meets the requirement for the Medium Utilization (MU) factor further described in clause 4.3.2.5. This is verified by the conformance test referred to in clause 4.3.2.5.4.

For non-adaptive non-FHSS equipment, where the manufacturer has declared an RF output power of less than 20 dBm e.i.r.p., the RF output power shall be equal to or less than that declared value.

This limit shall apply for any combination of power level and intended antenna assembly.

Test Procedure

The test procedure shall be as follows:

Step 1:

- Use a fast power sensor with a minimum sensitivity of -40 dBm and capable of minimum 1 MS/s.
- Use the following settings:
  - Sample speed 1 MS/s or faster.
  - The samples shall represent the RMS power of the signal.
  - Measurement duration: For non-adaptive equipment: equal to the observation period defined in clause 4.3.1.3.2 or clause 4.3.2.4.2. For adaptive equipment, the measurement duration shall be long enough to ensure a minimum number of bursts (at least 10) is captured.
    For adaptive equipment, to increase the measurement accuracy, a higher number of bursts may be used.

Step 2:

- For conducted measurements on devices with one transmit chain:
  - Connect the power sensor to the transmit port, sample the transmit signal and store the raw data. Use these stored samples in all following steps.
- For conducted measurements on devices with multiple transmit chains:
  - Connect one power sensor to each transmit port for a synchronous measurement on all transmit ports.
  - Trigger the power sensors so that they start sampling at the same time. Make sure the time difference between the samples of all sensors is less than 500 ns.
  - For each individual sampling point (time domain), sum the coincident power samples of all ports and store them. Use these summed samples as the new stored data set.

Step 3:

- Find the start and stop times of each burst in the stored measurement samples.
  The start and stop times are defined as the points where the power is at least 30 dB below the highest value of the stored samples in step 2.
  In case of insufficient sensitivity of the power sensor (e.g. in case of radiated measurements), the value of 30 dB may need to be reduced appropriately.

Step 4:

- Between the start and stop times of each individual burst calculate the RMS power over the burst using the formula below. The start and stop points shall be included. Save these P_{burst} values, as well as the start and stop times for each burst.

$$P_{burst} = \frac{1}{k}\sum_{n=1}^{k} P_{sample}(n)$$

with k being the total number of samples and n the actual sample number.

Step 5:

- The highest of all P_{burst} values (value A in dBm) will be used for maximum e.i.r.p. calculations.

Step 6:

- Add the (stated) antenna assembly gain G in dBi of the individual antenna.
- In case of smart antenna systems operating in mode with beamforming (see clause 5.3.2.2.4), add the additional beamforming gain Y in dB.
- If more than one antenna assembly is intended for this power setting, the maximum overall antenna gain (G or G + Y) shall be used.
- The RF Output Power (P_{out}) shall be calculated using the formula below:

$$P_{out} = A + G + Y$$

- This value, which shall comply with the limit given in clause 4.3.1.2.3 or clause 4.3.2.2.3, shall be recorded in the test report.

Power Spectral Density

Applicable Standard

The Power Spectral Density is the mean equivalent isotropically radiated power (e.i.r.p.) spectral density in a 1 MHz bandwidth during a transmission burst.

The maximum Power Spectral Density for non-FHSS equipment is 10 dBm per MHz.

Test Procedure

Option 1: For equipment with continuous and non-continuous transmissions

The transmitter shall be connected to a spectrum analyzer and the Power Spectral Density as defined in clause 4.3.2.3 shall be measured and recorded.

The test procedure shall be as follows:

Step 1:

Connect the UUT to the spectrum analyzer and use the following settings:

- Start Frequency: 2 400 MHz
- Stop Frequency: 2 483,5 MHz
- Resolution BW: 10 kHz
- Video BW: 30 kHz
- Sweep Points: > 8 350; for spectrum analyzers not supporting this number of sweep points, the frequency band may be segmented
- Detector: RMS
- Trace Mode: Max Hold
- Sweep time: For non-continuous transmissions: 2 × Channel Occupancy Time × number of sweep points
  For non-adaptive equipment use the maximum TX-sequence time in the formula above instead of the Channel Occupancy Time
  For continuous transmissions: 10 s; the sweep time may be increased further until a value where the sweep time has no further impact anymore on the RMS value of the signal

For non-continuous signals, wait for the trace to stabilize.

Save the data (trace data) set to a file.

Step 2:

For conducted measurements on smart antenna systems using either operating mode 2 or operating mode 3 (see clause 5.3.2.2), repeat the measurement for each of the transmit ports. For each sampling point (frequency domain), add up the coincident power values (in mW) for the different transmit chains and use this as the new data set.

Step 3:

Add up the values for power for all the samples in the file using the formula below.

$$P_{Sum} = \frac{1}{k}\sum_{n=1}^{k} P_{sample}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

Step 4:

Normalize the individual values for power (in dBm) so that the sum is equal to the RF Output Power (e.i.r.p.) measured in clause 5.4.2 and save the corrected data. The following formulas can be used:

$$C_{Corr} = P_{Sum} - P_{e.i.r.p}$$

$$P_{Samplecorr}(n) = P_{Sample}(n) - C_{Corr}$$

with 'n' being the actual sample number

Step 5:

Starting from the first sample $P_{Samplecorr}(n)$ (lowest frequency), add up the power (in mW) of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to sample #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.

Step 6:

Shift the start point of the samples added up in step 5 by one sample and repeat the procedure in step 5 (i.e. sample #2 to sample #101).

Step 7:

Repeat step 6 until the end of the data set and record the Power Spectral Density values for each of the 1 MHz segments.

From all the recorded results, the highest value is the maximum Power Spectral Density for the UUT. This value, which shall comply with the limit given in clause 4.3.2.3.3, shall be recorded in the test report.

Option 2: For equipment with continuous transmission capability.

This option is for equipment that can be configured to operate in a continuous transmit mode (100 % DC) .

Step 1:

Connect the UUT to the spectrum analyzer and use the following settings:
Centre Frequency: The centre frequency of the channel under test
RBW: 1 MHz
VBW: 3 MHz
Frequency Span: 2 × Nominal Bandwidth (e.g. 40 MHz for a 20 MHz channel)
Detector Mode: Peak
Trace Mode: Max Hold

Step 2:

When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:

Make the following changes to the settings of the spectrum analyzer:
Centre Frequency: Equal to the frequency recorded in step 2
Frequency Span: 3 MHz
RBW: 1 MHz
VBW: 3 MHz
Sweep Time: 1 minute
Detector Mode: RMS
Trace Mode: Max Hold

Step 4:

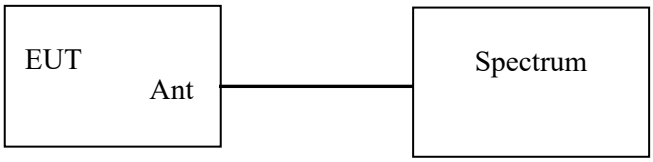
• Wait until the trace has stabilized, the trace shall be captured using the "Hold" or "View" option on the spectrum analyzer.
• Find the peak value of the trace and place the analyzer marker on this peak. This level is recorded as the highest mean power (power spectral density) D in a 1 MHz band.
• Alternatively, where a spectrum analyzer is equipped with a function to measure power spectral density, this function may be used to display the power spectral density D in dBm / MHz.
• In case of conducted measurements on smart antenna systems operating in a mode with multiple transmit chains active simultaneously, the power spectral density of each transmit chain shall be measured separately to calculate the total power spectral density (value D in dBm / MHz) for the UUT.

Step 5:

•The maximum Power Spectral Density (PSD) e.i.r.p. is calculated from the above measured power spectral density D, the applicable antenna assembly gain G in dBi and if applicable the beamforming gain Y in dB, according to the formula below. This value shall be recorded in the test report. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain shall be used.

$$PSD = D + G + Y \text{ (dBm / MHz)}$$

Test Setup Block diagram



Adaptivity

Applicable Standard

Adaptive non-FHSS using DAA:

According to ETSI EN 300 328 V2.2.2 (2019-07) §4.3.2.6.2, Adaptive non-FHSS using DAA is a mechanism for non-FHSS equipment by which a given channel is made 'unavailable' because an interfering signal was reported after the transmission in that channel.

Adaptive non-FHSS using LBT:

According to ETSI EN 300 328 V2.2.2 (2019-07) §4.3.2.6.3, Adaptive non-FHSS using LBT is a mechanism by which non-FHSS adaptive equipment avoids transmissions in a channel in the presence of an interfering signal in that channel. This mechanism shall operate as intended in the presence of an unwanted signal on frequencies other than those of the operating band.

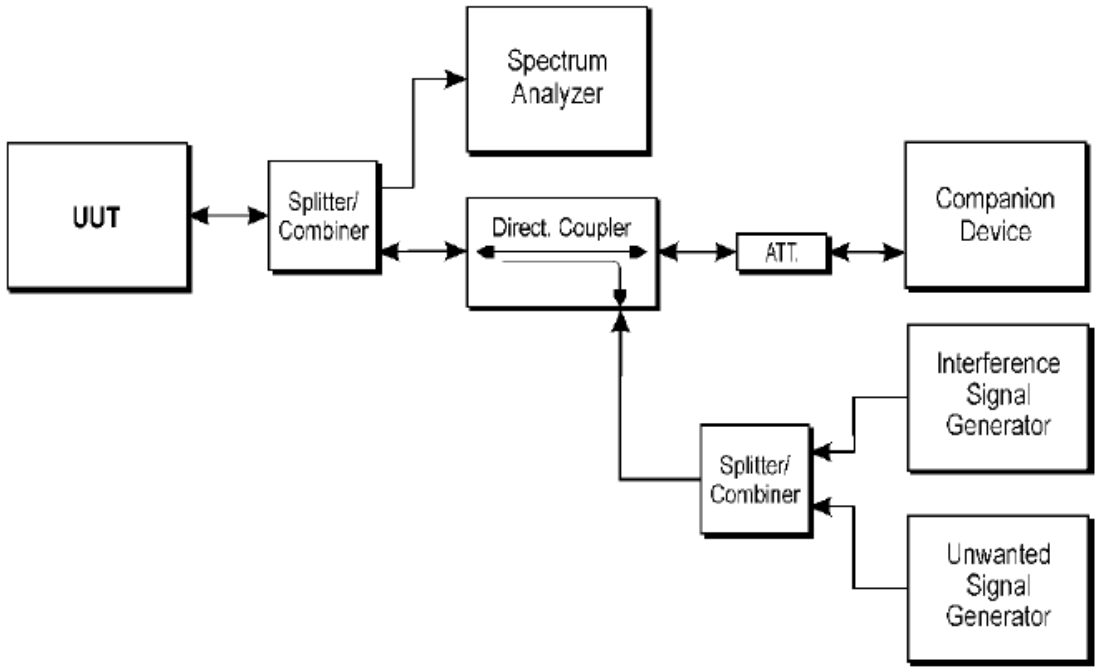
Limit

According to ETSI EN 300 328 V2.2.2 (2019-07)§4.3.2.6.2.2 & 4.3.2.6.3.2

Test Procedure

The measurement procedure refer to ETSI EN 300 328 V2.2.2 (2019-07) §5.4.6.2, §5.4.6.2.1.3 or 5.4.6.2.1.4.

Test Setup Block diagram



Occupied Channel Bandwidth

Applicable Standard

The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

Limit:

The Occupied Channel Bandwidth shall fall completely within the band given in table 1.

In addition, for non-adaptive non-FHSS equipment with e.i.r.p. greater than 10 dBm, the Occupied Channel Bandwidth shall be equal to or less than 20 MHz.

Test Procedure

For Conducted measurement, the measurement procedure shall be as follows:

Step 1:

Connect the UUT to the spectrum analyzer and use the following settings:

- Centre Frequency: The centre frequency of the channel under test
- Resolution BW: ~ 1 % of the span without going below 1 %
- Video BW: 3 × RBW
- Frequency Span: 2 × Nominal Channel Bandwidth
- Detector Mode: RMS
- Trace Mode: Max Hold
- Sweep time: 1 s

Step 2:

Wait for the trace to stabilize.
Find the peak value of the trace and place the analyzer marker on this peak.

Step 3:

Use the 99 % bandwidth function of the spectrum analyzer to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

NOTE: Make sure that the power envelope is sufficiently above the noise floor of the analyzer to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

For Radiated measurement, the test set up as described in annex B and the applicable measurement procedures described in annex C shall be used. Alternatively, a test fixture may be used.

The test procedure is as described under clause 5.4.7.2.1.

Transmitter Unwanted Emission In The Out-Of-Band Domain

Applicable Standard

According to ETSI EN 300 328 V2.2.2 (2019-07) §4.3.2.8.2, Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the necessary bandwidth which results from the modulation process, but excluding spurious emissions.

Limit

The transmitter unwanted emissions in the out-of-band domain shall not exceed the values provided by the mask in figure 3.

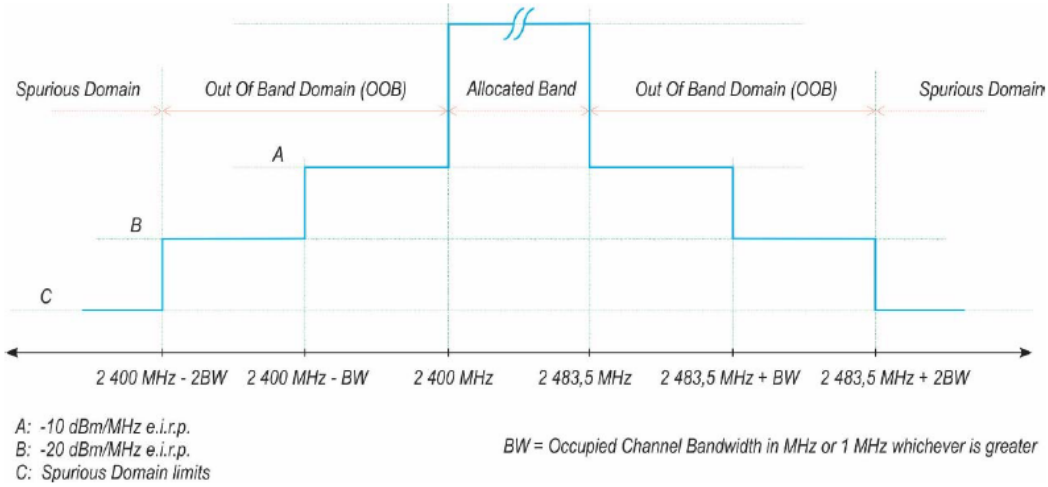


Figure 3: Transmit mask

Test Procedure

The conformance tests for this requirement are defined in clause 5.4.8.

Transmitter Unwanted Emission In The Spurious Domain

Applicable Standard

In the present document, transmitter unwanted emissions in the spurious domain are emissions outside the allocated band and outside the Out-of-band Domain as indicated in figure 3 when the equipment is in Transmit mode.

The transmitter unwanted emissions in the spurious domain shall not exceed the values given in table 12.

In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are e.r.p. for emissions up to 1 GHz and as e.i.r.p. for emissions above 1 GHz.

Transmitter limits for spurious emissions

Frequency Range	Maximum power e.r.p (≤ 1 GHz) e.i.r.p (> 1 GHz)	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 694 MHz	-54 dBm	100 kHz
694 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1MHz

Test Procedure

Conducted measurement

In case of conducted measurements, the radio equipment shall be connected to the measuring equipment via a suitable attenuator.
The spectrum in the spurious domain (see figures 1 or 3) shall be searched for emissions that exceed the limit values given in table or that come to within 6 dB below these limits. Each occurrence shall be recorded.

The measurement procedure refer to ETSI EN 300 328 V2.2.2 (2019-07) §5.4.9.2.1

Radiated measurement:

The test site as described in annex B and applicable measurement procedures as described in Annex A shall be used.

The test procedure is further as described under clause 5.4.9.2.1.

Receiver Spurious Emissions

Applicable Standard

According to ETSI EN 300 328 V2.2.2 (2019-07) §4.3.2.10, the receiver spurious emissions are emissions at any frequency when the equipment is in receive mode.

The spurious emissions of the receiver shall not exceed the values given in table 13.
In case of non-FHSS equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or for emissions radiated by integral antenna equipment (without antenna connectors), these limits are e.r.p. for emissions up to 1 GHz and e.i.r.p. for emissions above 1 GHz.

Table 13: Spurious emission limits for receivers

Frequency range	Maximum power	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12,75 GHz	-47 dBm	1 MHz

Test Procedure

Conducted measurement:

In case of conducted measurements, the radio equipment shall be connected to the measuring equipment via a suitable attenuator.
The spectrum in the spurious domain (see figures 1 or 3) shall be searched for emissions that exceed the limit values given in table or that come to within 6 dB below these limits. Each occurrence shall be recorded.

The measurement procedure refer to ETSI EN 300 328 V2.2.2 (2019-07) §5.4.10.2.1

Radiated measurement

The test site as described in annex B and applicable measurement procedures as described in Annex A shall be used.

The test procedure is further as described under clause 5.4.10.2.1.

Receiver Blocking

Applicable Standard

This requirement applies to all receiver categories as defined in clause 4.2.3.

Receiver blocking is a measure of the ability of the equipment to receive a wanted signal on its operating channel without exceeding a given degradation due to the presence of an unwanted input signal (blocking signal) at frequencies other than those of the operating band and spurious responses.

Performance Criteria:

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.

Limit

While maintaining the minimum performance criteria as defined in clause 4.3.2.11.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 14, table 15 or table 16.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × $\log_{10}$(OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × $\log_{10}$(OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2 524 2 584 2 674		

NOTE 1: OCBW is in Hz.
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 15: Receiver Blocking parameters receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × $\log_{10}$(OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

NOTE 1: OCBW is in Hz.
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 16: Receiver Blocking parameters receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × $\log_{10}$(OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

NOTE 1: OCBW is in Hz.
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 30 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Test Procedure

Conducted measurement:

For systems using multiple receive chains only one chain (antenna port) need to be tested. All other receiver inputs shall be terminated.

Figure 6 shows the test set-up which can be used for performing the receiver blocking test.

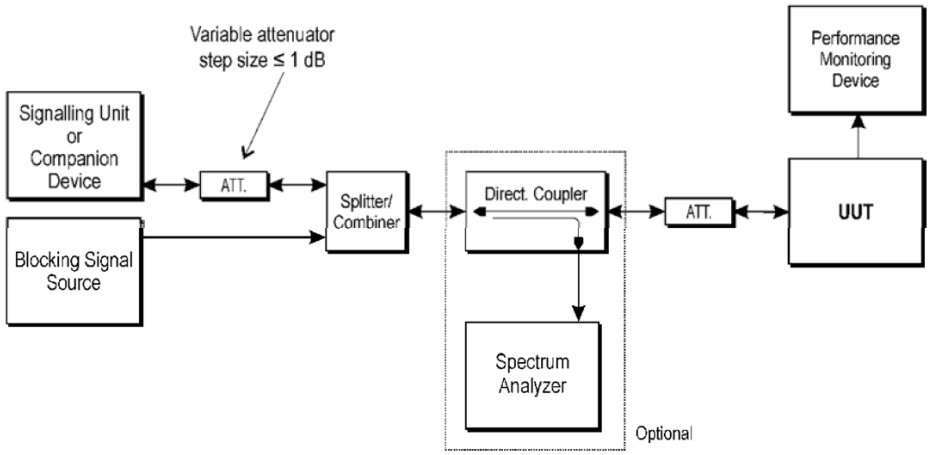


Figure 6: Test Set-up for receiver blocking

The procedure in step 1 to step 6 below shall be used to verify the receiver blocking requirement as described in clause 4.3.1.12 or clause 4.3.2.11. The performance monitoring device is capable of verifying the performance criteria as defined in clause 4.3.1.12.3 or clause 4.3.2.11.3.

Table 6, table 7 and table 8 in clause 4.3.1.12.4 contain the applicable blocking frequencies and blocking levels for each of the receiver categories for testing Receiver Blocking on FHSS equipment.

Table 14, table 15 and table 16 in clause 4.3.2.11.4 contain the applicable blocking frequencies and blocking levels for each of the receiver categories for testing Receiver Blocking on non-FHSS equipment.

Step 1:

• For non-FHSS equipment, the UUT shall be set to the lowest operating channel on which the blocking test has to be performed (see clause 5.4.11.1).

Step 2:

• The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment.

Step 3:

• With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup shown in figure 6.

• Unless the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the level of the wanted signal shall be set to the value provided in the table corresponding to the receiver category and type of equipment. The test procedure defined in clause 5.4.2, and more in particular clause 5.4.2.2.1.2, can be used to measure the (conducted) level of the wanted signal however no correction shall be made for antenna gain of the companion device (step 6 in clause 5.4.2.2.1.2 shall be ignored). This level may be measured directly at the output of the companion device and a correction is made for the coupling loss into the UUT. The actual level for the wanted signal shall be recorded in the test report.

• When the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the attenuation of the variable attenuator shall be increased in 1 dB steps to a value at which the minimum performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still met. The resulting level for the wanted signal at the input of the UUT is Pmin. This signal level (Pmin) is increased by the value provided in note 2 of the applicable table corresponding to the receiver category and type of equipment.

Step 4:

• The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment.
• If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 are met then proceed to step 6.

Step 5:

• If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is not met, step 3 and step 4 shall be repeated after that the frequency of the blocking signal set in step 2 has been increased with a value equal to the Occupied Channel Bandwidth except:
- For the blocking frequency 2 380 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be increased by 3 dB.
- For the blocking frequency 2 503,5 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be decreased by 3 dB.

• If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still not met, step 3 and step 4 shall be repeated after that the frequency of the blocking signal set in step 2 has been decreased with a value equal to the Occupied Channel Bandwidth except:
- For the blocking frequency 2 380 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be decreased by 3 dB.
- For the blocking frequency 2 503,5 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be increased by 3 dB.

• If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still not met, the UUT fails to comply with the Receiver Blocking requirement and step 6 and step 7 are no longer required.
• It shall be recorded in the test report whether the shift of blocking frequencies as described in the present step was used.

Step 6:

• Repeat step 4 and step 5 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment.

Step 7:

• For non-FHSS equipment, repeat step 2 to step 6 with the UUT operating at the highest operating channel on which the blocking test has to be performed (see clause 5.4.11.1).

Step 8:

• It shall be assessed and recorded in the test report whether the UUT complies with the Receiver Blocking requirement.

TEST DATA AND RESULTS

Transmitter unwanted emissions in the spurious domain

Environmental Conditions

Temperature (℃)	24.9-25.8	**Relative Humidity (%)**	48-51
ATM Pressure (kPa):	100.3-100.6	**Test engineer:**	Anson Su &Wing K Ji
Test date:	2026.03.27-2026.03.30		
EUT operation mode:	Transmitting		
Note:	Test Result: Compliant, Pretest with 802.11b, 802.11g, 802.11n-HT20, the worst case was 802.11b mode.		

30 MHz ~ 12.75 GHz:

Frequency (MHz)	Receiver Reading (dBµV)	Polar (H / V)	Substituted			Absolute Level (dBm)	EN 300 328	
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)		Limit (dBm)	Margin (dB)
Low Channel								
80.12	42.80	H	-71.59	0.75	0.00	-70.84	-36.00	34.84
158.76	31.86	V	-72.20	0.84	0.00	-71.36	-36.00	35.36
4824.00	50.25	H	-62.75	2	10.4	-54.35	-30.00	24.35
4824.00	50.54	V	-61.86	2	10.4	-53.46	-30.00	23.46
High Channel								
80.46	43.53	H	-70.86	0.75	0.00	-70.11	-36.00	34.11
162.84	31.31	V	-72.75	0.84	0.00	-71.91	-36.00	35.91
4944.00	50.74	H	-61.66	1.9	10.5	-53.06	-30.00	23.06
4944.00	50.95	V	-60.75	1.9	10.5	-52.15	-30.00	22.15

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.
Note 2:
Absolute Level = Substituted Level - Cable loss + Antenna Gain
Margin = Limit- Absolute Level

Receiver spurious emissions

Environmental Conditions

Temperature (℃)	24.9-25.8	**Relative Humidity (%)**	48-51
ATM Pressure (kPa):	100.3-100.6	**Test engineer:**	Anson Su &Wing K Ji
Test date:	2026.03.27-2026.03.30		
EUT operation mode:	Receiving		
Note:	Test Result: Compliant, Pretest with 802.11b, 802.11g, 802.11n-HT20, the worst case was 802.11b mode.		

30 MHz ~ 12.75 GHz:

Frequency (MHz)	Receiver Reading (dBμV)	Polar (H / V)	Substituted			Absolute Level (dBm)	EN 300 328	
			Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi/dBd)		Limit (dBm)	Margin (dB)
Low Channel								
80.62	42.42	H	-71.97	0.75	0.00	-71.22	-57.00	14.22
154.43	31.56	V	-72.50	0.84	0.00	-71.66	-57.00	14.66
1315.64	49.61	H	-64.79	1.00	7.30	-58.49	-47.00	11.49
1458.91	48.50	V	-66.60	1.20	8.20	-59.60	-47.00	12.60
High Channel								
80.72	43.07	H	-71.32	0.75	0.00	-70.57	-57.00	13.57
160.85	32.04	V	-72.02	0.84	0.00	-71.18	-57.00	14.18
1484.95	47.20	H	-67.40	1.20	8.20	-60.40	-47.00	13.40
1346.52	49.97	V	-65.33	1.00	7.30	-59.03	-47.00	12.03

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.
Note 2:
Absolute Level = Substituted Level - Cable loss + Antenna Gain
Margin = Limit- Absolute Level

RF Conducted data

Project No.:	**2601R49433E-RF**
EUT Number:	3IUC-1
Operating Mode:	**Transmitting/Receiving**
Test Conditions:	Normal Temperature: 25.2 °C Low Temperature: 0°C High Temperature: 55 °C Relative Humidity: 55 % ATM Pressure: 100.7 kPa
Test Engineer:	Ciel .Jiang
Test Date:	**2026.04.01**

RF Output Power

Test Result

Test Condition	Test Mode	Antenna	Frequency[MHz]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
NTNV	11B	Ant1	2412	16.09	20	PASS
			2442	15.43	20	PASS
			2472	16.04	20	PASS
	11G	Ant1	2412	16.17	20	PASS
			2442	15.83	20	PASS
			2472	16.29	20	PASS
	11N20SISO	Ant1	2412	16.14	20	PASS
			2442	15.81	20	PASS
			2472	16.43	20	PASS
LTNV	11B	Ant1	2412	16.42	20	PASS
			2442	15.74	20	PASS
			2472	16.35	20	PASS
	11G	Ant1	2412	16.47	20	PASS
			2442	16.16	20	PASS
			2472	16.60	20	PASS
	11N20SISO	Ant1	2412	16.47	20	PASS
			2442	16.13	20	PASS
			2472	16.75	20	PASS
HTNV	11B	Ant1	2412	15.78	20	PASS
			2442	15.13	20	PASS
			2472	15.72	20	PASS
	11G	Ant1	2412	15.86	20	PASS
			2442	15.49	20	PASS
			2472	15.96	20	PASS
	11N20SISO	Ant1	2412	15.82	20	PASS
			2442	15.47	20	PASS
			2472	16.12	20	PASS

Note: The antenna gain is 0.90dBi which was added into the result.

Power Spectral Density

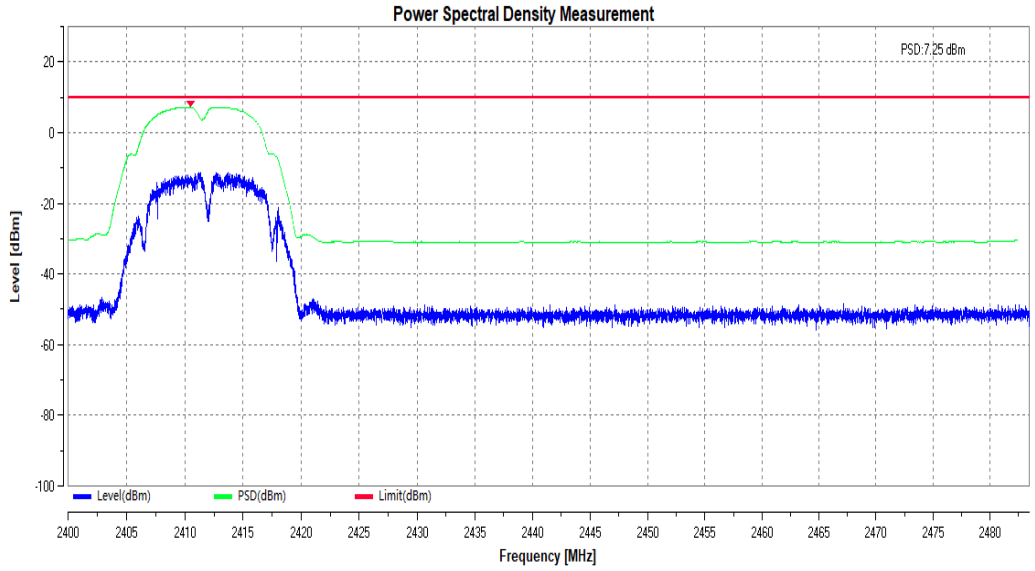
Test Result

Test Mode	Antenna	Frequency[MHz]	PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
11B	Ant1	2412	7.25	10	PASS
		2442	6.58	10	PASS
		2472	7.30	10	PASS
11G	Ant1	2412	4.79	10	PASS
		2442	4.33	10	PASS
		2472	4.70	10	PASS
11N20SISO	Ant1	2412	4.42	10	PASS
		2442	3.92	10	PASS
		2472	4.64	10	PASS

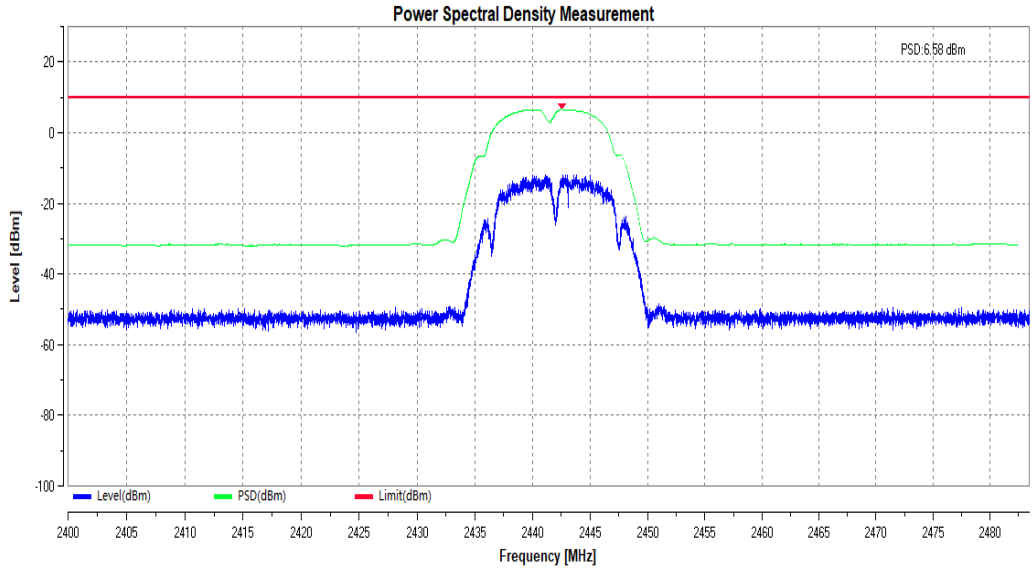
Note: The antenna gain is 0.90dBi which was added into the result.

Test Graphs

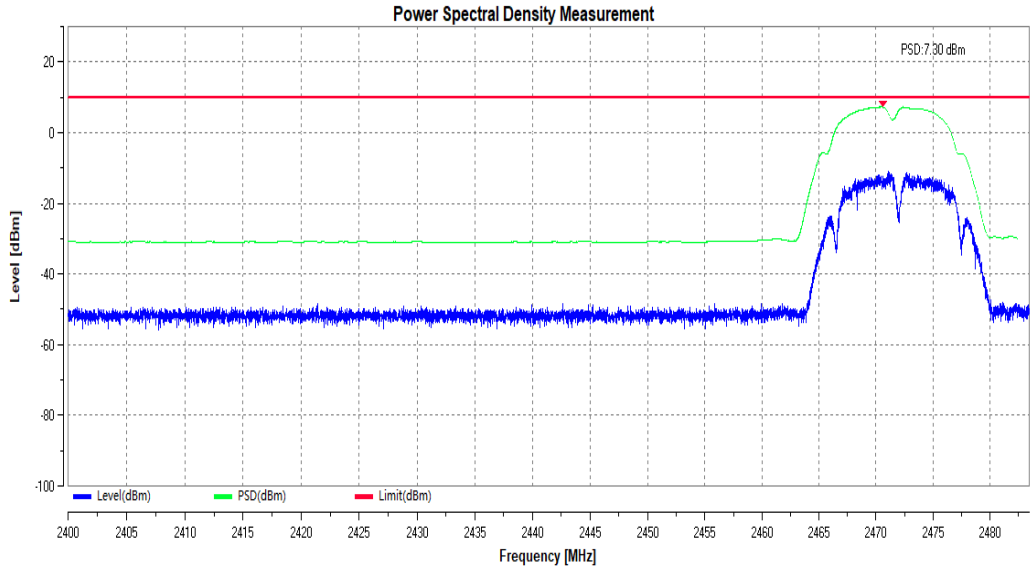
11B_Ant1_2412



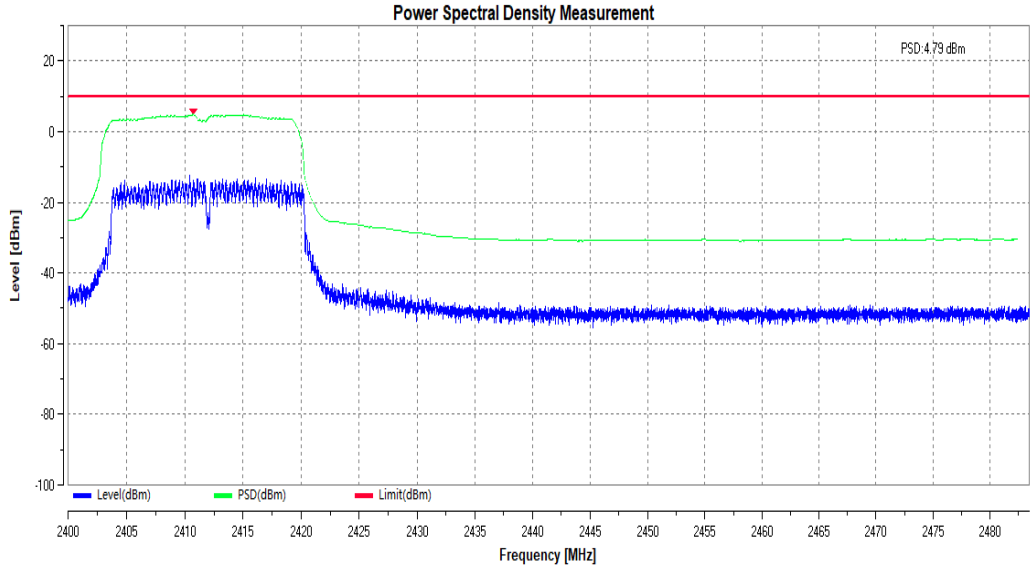
11B_Ant1_2442



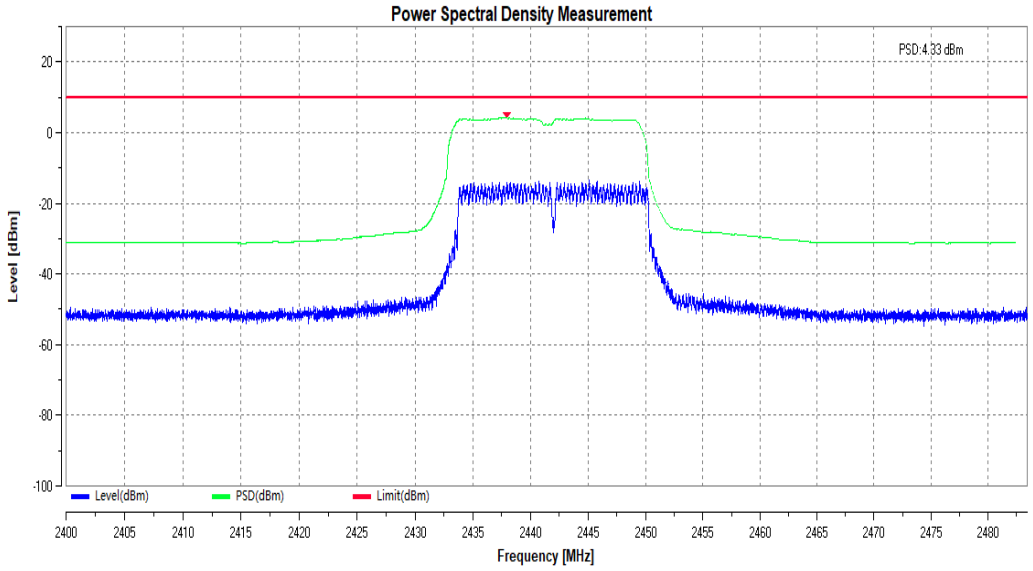
11B_Ant1_2472



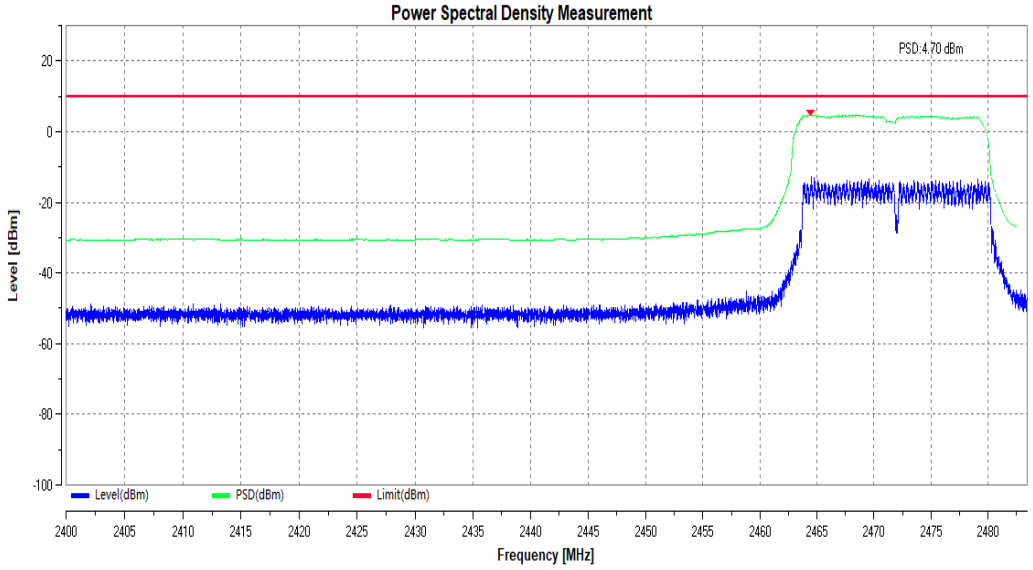
11G_Ant1_2412



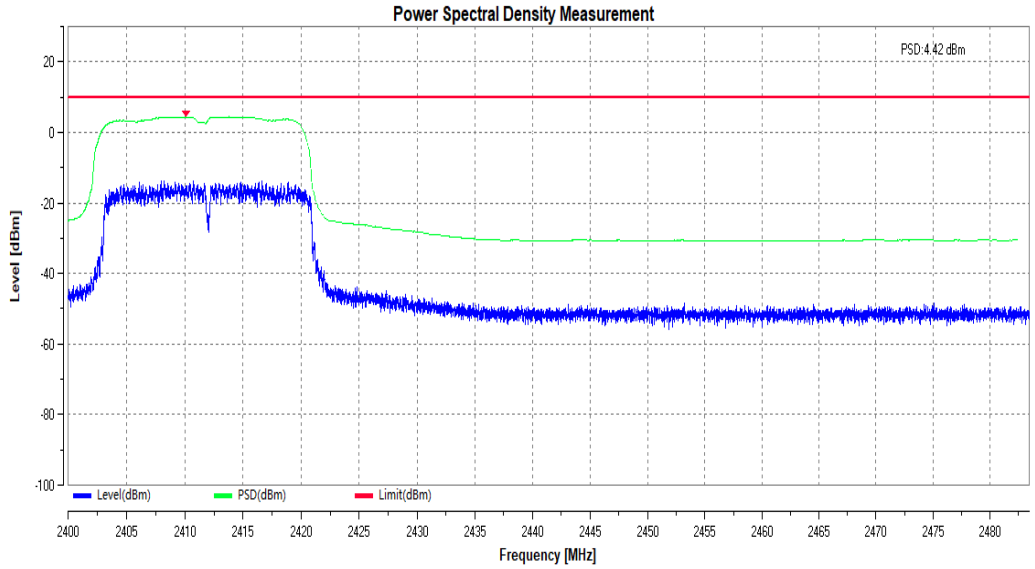
11G_Ant1_2442



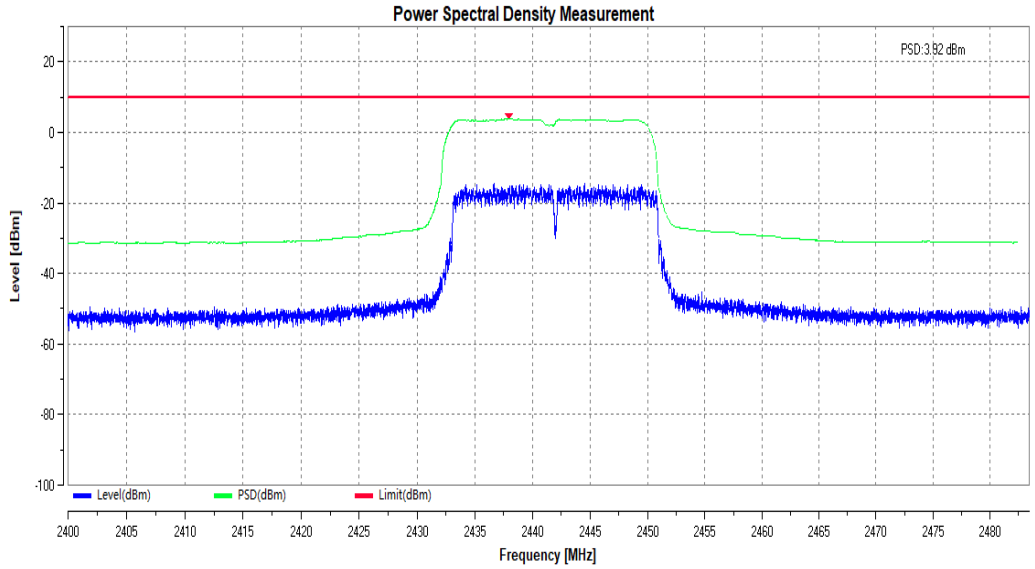
11G_Ant1_2472



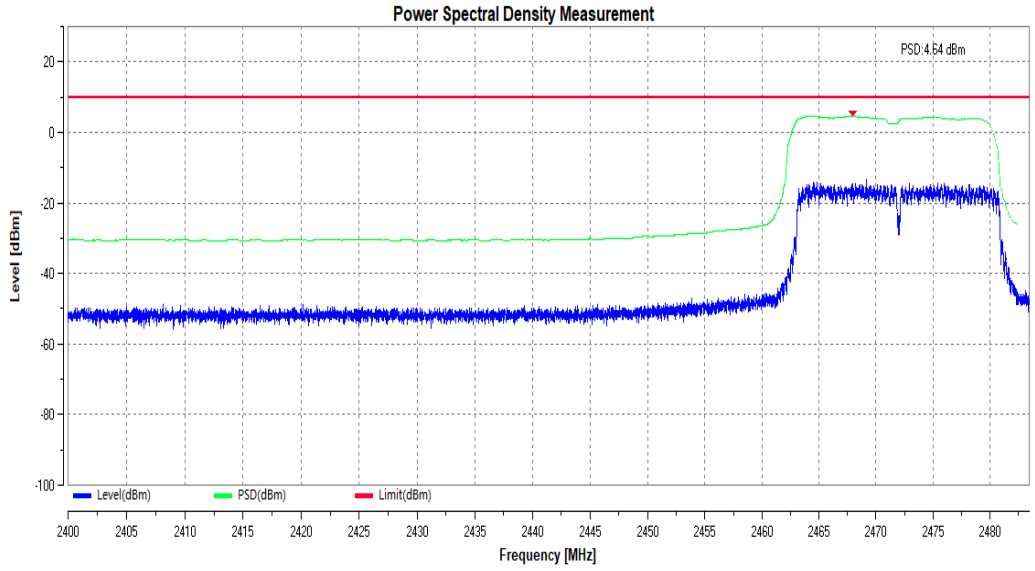
11N20SISO_Ant1_2412



11N20SISO_Ant1_2442



11N20SISO_Ant1_2472



Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Freq. [MHz]	OCB[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.832	2406.0844	2417.9164	2400 to 2483.5	PASS
		2472	11.973	2465.9931	2477.9661	2400 to 2483.5	PASS
11G	Ant1	2412	16.532	2403.7276	2420.2596	2400 to 2483.5	PASS
		2472	16.591	2463.6738	2480.2648	2400 to 2483.5	PASS
11N20SISO	Ant1	2412	17.613	2403.1923	2420.8053	2400 to 2483.5	PASS
		2472	17.675	2433.1465	2450.8215	2400 to 2483.5	PASS

Test Graphs

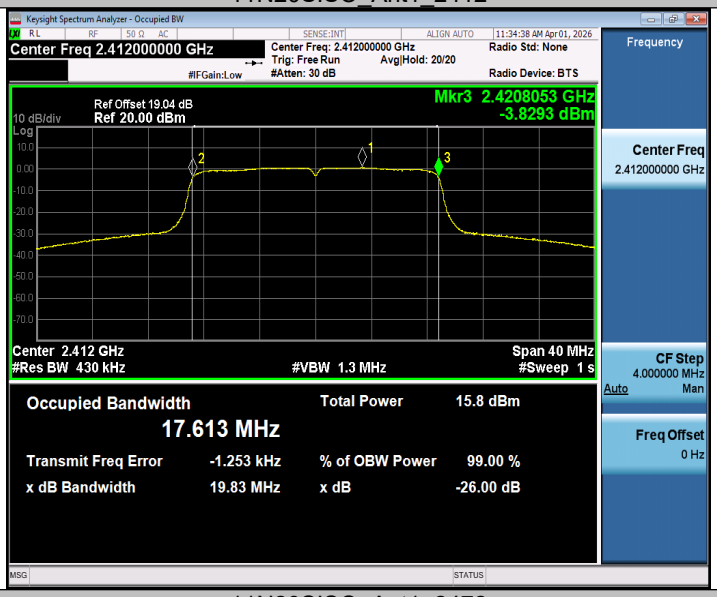
11B_Ant1_2412

11B_Ant1_2472

11G_Ant1_2412

11G_Ant1_2472

11N20SISO_Ant1_2412



11N20SISO_Ant1_2472

Transmitter Unwanted Emissions In The Out-Of-Band Domain

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. [MHz]	Level [dBm/MHz]	Limit [dBm/MHz]	Verdict
11B	Ant1	2412	2376.668	-46.80	-20.00	PASS
			2376.836	-46.82	-20.00	PASS
			2377.668	-46.75	-20.00	PASS
			2378.668	-46.56	-20.00	PASS
			2379.668	-46.50	-20.00	PASS
			2380.668	-47.39	-20.00	PASS
			2381.668	-47.38	-20.00	PASS
			2382.668	-47.21	-20.00	PASS
			2383.668	-47.15	-20.00	PASS
			2384.668	-47.17	-20.00	PASS
			2385.668	-47.23	-20.00	PASS
			2386.668	-46.64	-20.00	PASS
			2387.668	-47.28	-20.00	PASS
			2388.5	-46.61	-10.00	PASS
			2388.668	-46.53	-10.00	PASS
			2389.5	-46.63	-10.00	PASS
			2390.5	-45.35	-10.00	PASS
			2391.5	-46.69	-10.00	PASS
			2392.5	-46.31	-10.00	PASS
			2393.5	-46.02	-10.00	PASS
			2394.5	-46.14	-10.00	PASS
			2395.5	-44.13	-10.00	PASS
			2396.5	-42.71	-10.00	PASS
			2397.5	-42.55	-10.00	PASS
			2398.5	-41.77	-10.00	PASS
			2399.5	-39.82	-10.00	PASS
			2484	-47.19	-10.00	PASS
			2485	-47.21	-10.00	PASS
			2486	-47.31	-10.00	PASS
			2487	-47.30	-10.00	PASS
			2488	-47.29	-10.00	PASS
			2489	-47.29	-10.00	PASS
			2490	-47.28	-10.00	PASS
			2491	-47.33	-10.00	PASS
			2492	-47.31	-10.00	PASS
			2493	-47.32	-10.00	PASS
			2494	-47.30	-10.00	PASS
			2494.832	-47.30	-10.00	PASS
			2495	-47.29	-10.00	PASS
			2495.832	-47.32	-20.00	PASS
			2496.832	-47.31	-20.00	PASS
			2497.832	-47.32	-20.00	PASS
			2498.832	-47.29	-20.00	PASS
			2499.832	-47.29	-20.00	PASS
			2500.832	-47.02	-20.00	PASS
			2501.832	-46.99	-20.00	PASS
			2502.832	-47.00	-20.00	PASS
			2503.832	-46.99	-20.00	PASS
			2504.832	-47.00	-20.00	PASS
			2505.832	-46.98	-20.00	PASS
			2506.664	-47.04	-20.00	PASS
			2506.832	-46.98	-20.00	PASS
		2472	2376.527	-47.08	-20.00	PASS
			2376.554	-47.12	-20.00	PASS
			2377.527	-47.10	-20.00	PASS

			2378.527	-47.09	-20.00	PASS
			2379.527	-47.10	-20.00	PASS
			2380.527	-47.84	-20.00	PASS
			2381.527	-47.83	-20.00	PASS
			2382.527	-47.82	-20.00	PASS
			2383.527	-47.83	-20.00	PASS
			2384.527	-47.80	-20.00	PASS
			2385.527	-47.82	-20.00	PASS
			2386.527	-47.81	-20.00	PASS
			2387.527	-47.82	-20.00	PASS
			2388.5	-47.82	-10.00	PASS
			2388.527	-47.83	-10.00	PASS
			2389.5	-47.78	-10.00	PASS
			2390.5	-47.67	-10.00	PASS
			2391.5	-47.66	-10.00	PASS
			2392.5	-47.67	-10.00	PASS
			2393.5	-47.66	-10.00	PASS
			2394.5	-47.64	-10.00	PASS
			2395.5	-47.67	-10.00	PASS
			2396.5	-47.64	-10.00	PASS
			2397.5	-47.65	-10.00	PASS
			2398.5	-47.64	-10.00	PASS
			2399.5	-47.65	-10.00	PASS
			2484	-37.62	-10.00	PASS
			2485	-38.65	-10.00	PASS
			2486	-39.33	-10.00	PASS
			2487	-41.34	-10.00	PASS
			2488	-43.61	-10.00	PASS
			2489	-46.23	-10.00	PASS
			2490	-45.85	-10.00	PASS
			2491	-45.03	-10.00	PASS
			2492	-45.59	-10.00	PASS
			2493	-46.05	-10.00	PASS
			2494	-46.23	-10.00	PASS
			2494.973	-46.13	-10.00	PASS
			2495	-46.12	-10.00	PASS
			2495.973	-46.50	-20.00	PASS
			2496.973	-46.42	-20.00	PASS
			2497.973	-46.45	-20.00	PASS
			2498.973	-46.43	-20.00	PASS
			2499.973	-46.52	-20.00	PASS
			2500.973	-46.23	-20.00	PASS
			2501.973	-46.44	-20.00	PASS
			2502.973	-46.42	-20.00	PASS
			2503.973	-45.86	-20.00	PASS
			2504.973	-46.39	-20.00	PASS
			2505.973	-46.58	-20.00	PASS
			2506.946	-46.47	-20.00	PASS
			2506.973	-46.48	-20.00	PASS
11G	Ant1	2412	2366.968	-46.83	-20.00	PASS
			2367.436	-46.81	-20.00	PASS
			2367.968	-46.80	-20.00	PASS
			2368.968	-46.75	-20.00	PASS
			2369.968	-46.72	-20.00	PASS
			2370.968	-46.78	-20.00	PASS
			2371.968	-46.70	-20.00	PASS
			2372.968	-46.64	-20.00	PASS
			2373.968	-46.55	-20.00	PASS
			2374.968	-46.41	-20.00	PASS
			2375.968	-46.21	-20.00	PASS
			2376.968	-45.96	-20.00	PASS

			2377.968	-45.69	-20.00	PASS
			2378.968	-45.33	-20.00	PASS
			2379.968	-44.98	-20.00	PASS
			2380.968	-45.22	-20.00	PASS
			2381.968	-44.69	-20.00	PASS
			2382.968	-44.17	-20.00	PASS
			2383.5	-43.85	-10.00	PASS
			2383.968	-43.50	-10.00	PASS
			2384.5	-43.15	-10.00	PASS
			2385.5	-42.37	-10.00	PASS
			2386.5	-41.67	-10.00	PASS
			2387.5	-40.87	-10.00	PASS
			2388.5	-38.87	-10.00	PASS
			2389.5	-35.87	-10.00	PASS
			2390.5	-33.60	-10.00	PASS
			2391.5	-31.60	-10.00	PASS
			2392.5	-29.33	-10.00	PASS
			2393.5	-28.19	-10.00	PASS
			2394.5	-26.65	-10.00	PASS
			2395.5	-25.26	-10.00	PASS
			2396.5	-23.76	-10.00	PASS
			2397.5	-22.85	-10.00	PASS
			2398.5	-21.57	-10.00	PASS
			2399.5	-20.64	-10.00	PASS
			2484	-47.21	-10.00	PASS
			2485	-47.22	-10.00	PASS
			2486	-47.31	-10.00	PASS
			2487	-47.32	-10.00	PASS
			2488	-47.30	-10.00	PASS
			2489	-47.29	-10.00	PASS
			2490	-47.28	-10.00	PASS
			2491	-47.31	-10.00	PASS
			2492	-47.35	-10.00	PASS
			2493	-47.32	-10.00	PASS
			2494	-47.31	-10.00	PASS
			2495	-47.29	-10.00	PASS
			2496	-47.31	-10.00	PASS
			2497	-47.35	-10.00	PASS
			2498	-47.32	-10.00	PASS
			2499	-47.30	-10.00	PASS
			2499.532	-47.32	-10.00	PASS
			2500	-47.30	-10.00	PASS
			2500.532	-47.00	-20.00	PASS
			2501.532	-47.01	-20.00	PASS
			2502.532	-47.00	-20.00	PASS
			2503.532	-47.01	-20.00	PASS
			2504.532	-47.00	-20.00	PASS
			2505.532	-47.00	-20.00	PASS
			2506.532	-47.01	-20.00	PASS
			2507.532	-47.00	-20.00	PASS
			2508.532	-46.97	-20.00	PASS
			2509.532	-46.97	-20.00	PASS
			2510.532	-46.68	-20.00	PASS
			2511.532	-46.68	-20.00	PASS
			2512.532	-46.66	-20.00	PASS
			2513.532	-46.67	-20.00	PASS
			2514.532	-46.66	-20.00	PASS
			2515.532	-46.68	-20.00	PASS
			2516.064	-46.68	-20.00	PASS
			2516.532	-46.66	-20.00	PASS
		2472	2366.909	-47.03	-20.00	PASS

			2367.318	-47.04	-20.00	PASS
			2367.909	-47.05	-20.00	PASS
			2368.909	-47.01	-20.00	PASS
			2369.909	-47.02	-20.00	PASS
			2370.909	-47.13	-20.00	PASS
			2371.909	-47.13	-20.00	PASS
			2372.909	-47.13	-20.00	PASS
			2373.909	-47.14	-20.00	PASS
			2374.909	-47.12	-20.00	PASS
			2375.909	-47.11	-20.00	PASS
			2376.909	-47.15	-20.00	PASS
			2377.909	-47.13	-20.00	PASS
			2378.909	-47.13	-20.00	PASS
			2379.909	-47.11	-20.00	PASS
			2380.909	-47.85	-20.00	PASS
			2381.909	-47.84	-20.00	PASS
			2382.909	-47.83	-20.00	PASS
			2383.5	-47.84	-10.00	PASS
			2383.909	-47.84	-10.00	PASS
			2384.5	-47.81	-10.00	PASS
			2385.5	-47.82	-10.00	PASS
			2386.5	-47.83	-10.00	PASS
			2387.5	-47.81	-10.00	PASS
			2388.5	-47.84	-10.00	PASS
			2389.5	-47.82	-10.00	PASS
			2390.5	-47.66	-10.00	PASS
			2391.5	-47.66	-10.00	PASS
			2392.5	-47.66	-10.00	PASS
			2393.5	-47.68	-10.00	PASS
			2394.5	-47.67	-10.00	PASS
			2395.5	-47.67	-10.00	PASS
			2396.5	-47.67	-10.00	PASS
			2397.5	-47.66	-10.00	PASS
			2398.5	-47.67	-10.00	PASS
			2399.5	-47.66	-10.00	PASS
			2484	-20.26	-10.00	PASS
			2485	-21.09	-10.00	PASS
			2486	-22.17	-10.00	PASS
			2487	-23.01	-10.00	PASS
			2488	-24.01	-10.00	PASS
			2489	-24.78	-10.00	PASS
			2490	-25.81	-10.00	PASS
			2491	-26.93	-10.00	PASS
			2492	-27.99	-10.00	PASS
			2493	-29.34	-10.00	PASS
			2494	-30.57	-10.00	PASS
			2495	-32.88	-10.00	PASS
			2496	-34.78	-10.00	PASS
			2497	-36.04	-10.00	PASS
			2498	-36.81	-10.00	PASS
			2499	-37.36	-10.00	PASS
			2499.591	-38.14	-10.00	PASS
			2500	-38.52	-10.00	PASS
			2500.591	-38.77	-20.00	PASS
			2501.591	-39.60	-20.00	PASS
			2502.591	-39.95	-20.00	PASS
			2503.591	-41.02	-20.00	PASS
			2504.591	-41.72	-20.00	PASS
			2505.591	-42.60	-20.00	PASS
			2506.591	-43.24	-20.00	PASS
			2507.591	-43.60	-20.00	PASS

			2508.591	-44.23	-20.00	PASS
			2509.591	-44.65	-20.00	PASS
			2510.591	-44.72	-20.00	PASS
			2511.591	-44.94	-20.00	PASS
			2512.591	-45.17	-20.00	PASS
			2513.591	-45.36	-20.00	PASS
			2514.591	-45.54	-20.00	PASS
			2515.591	-45.67	-20.00	PASS
			2516.182	-45.75	-20.00	PASS
			2516.591	-45.81	-20.00	PASS
11N20SISO	Ant1	2412	2364.887	-46.85	-20.00	PASS
			2365.274	-46.84	-20.00	PASS
			2365.887	-46.78	-20.00	PASS
			2366.887	-46.76	-20.00	PASS
			2367.887	-46.72	-20.00	PASS
			2368.887	-46.68	-20.00	PASS
			2369.887	-46.62	-20.00	PASS
			2370.887	-46.66	-20.00	PASS
			2371.887	-46.57	-20.00	PASS
			2372.887	-46.44	-20.00	PASS
			2373.887	-46.26	-20.00	PASS
			2374.887	-46.07	-20.00	PASS
			2375.887	-45.78	-20.00	PASS
			2376.887	-45.51	-20.00	PASS
			2377.887	-45.18	-20.00	PASS
			2378.887	-44.73	-20.00	PASS
			2379.887	-44.24	-20.00	PASS
			2380.887	-44.50	-20.00	PASS
			2381.887	-43.95	-20.00	PASS
			2382.5	-43.54	-10.00	PASS
			2382.887	-43.25	-10.00	PASS
			2383.5	-42.86	-10.00	PASS
			2384.5	-42.17	-10.00	PASS
			2385.5	-41.29	-10.00	PASS
			2386.5	-39.97	-10.00	PASS
			2387.5	-37.87	-10.00	PASS
			2388.5	-35.39	-10.00	PASS
			2389.5	-33.10	-10.00	PASS
			2390.5	-30.97	-10.00	PASS
			2391.5	-29.30	-10.00	PASS
			2392.5	-27.71	-10.00	PASS
			2393.5	-26.21	-10.00	PASS
			2394.5	-25.35	-10.00	PASS
			2395.5	-24.25	-10.00	PASS
			2396.5	-23.19	-10.00	PASS
			2397.5	-22.09	-10.00	PASS
			2398.5	-20.99	-10.00	PASS
			2399.5	-19.59	-10.00	PASS
			2484	-47.20	-10.00	PASS
			2485	-47.19	-10.00	PASS
			2486	-47.30	-10.00	PASS
			2487	-47.31	-10.00	PASS
			2488	-47.28	-10.00	PASS
			2489	-47.27	-10.00	PASS
			2490	-47.28	-10.00	PASS
			2491	-47.32	-10.00	PASS
			2492	-47.30	-10.00	PASS
			2493	-47.31	-10.00	PASS
			2494	-47.31	-10.00	PASS
			2495	-47.29	-10.00	PASS
			2496	-47.28	-10.00	PASS

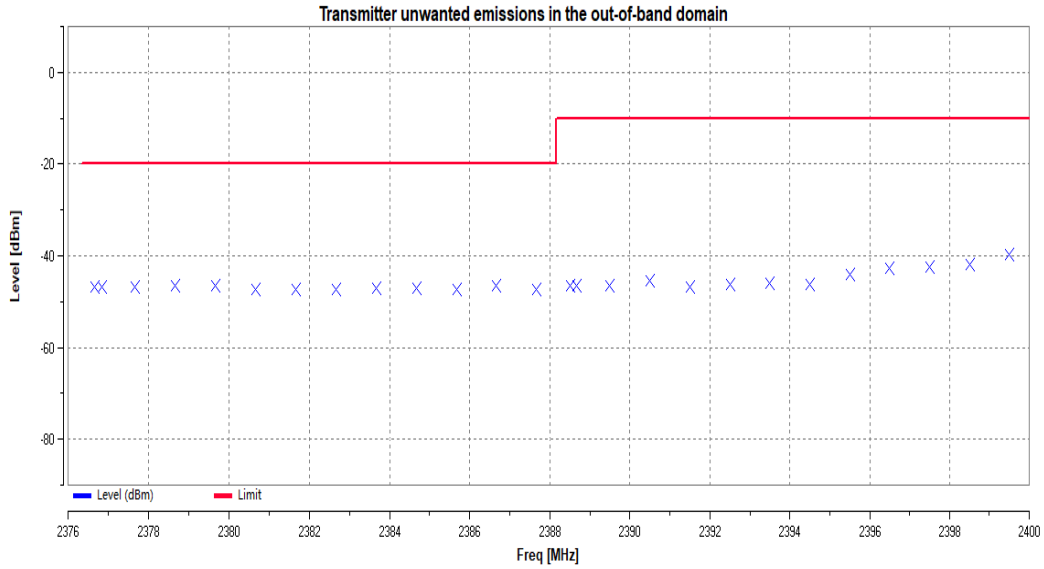
			2497	-47.32	-10.00	PASS
			2498	-47.29	-10.00	PASS
			2499	-47.28	-10.00	PASS
			2500	-47.28	-10.00	PASS
			2500.613	-46.99	-10.00	PASS
			2501	-46.98	-10.00	PASS
			2501.613	-47.01	-20.00	PASS
			2502.613	-46.97	-20.00	PASS
			2503.613	-46.97	-20.00	PASS
			2504.613	-46.97	-20.00	PASS
			2505.613	-46.99	-20.00	PASS
			2506.613	-46.98	-20.00	PASS
			2507.613	-46.95	-20.00	PASS
			2508.613	-46.95	-20.00	PASS
			2509.613	-46.91	-20.00	PASS
			2510.613	-46.67	-20.00	PASS
			2511.613	-46.66	-20.00	PASS
			2512.613	-46.66	-20.00	PASS
			2513.613	-46.64	-20.00	PASS
			2514.613	-46.64	-20.00	PASS
			2515.613	-46.66	-20.00	PASS
			2516.613	-46.64	-20.00	PASS
			2517.613	-46.63	-20.00	PASS
			2518.226	-46.63	-20.00	PASS
			2518.613	-46.64	-20.00	PASS
		2472	2364.807	-47.08	-20.00	PASS
			2365.114	-47.09	-20.00	PASS
			2365.807	-47.05	-20.00	PASS
			2366.807	-47.08	-20.00	PASS
			2367.807	-47.09	-20.00	PASS
			2368.807	-47.07	-20.00	PASS
			2369.807	-47.06	-20.00	PASS
			2370.807	-47.18	-20.00	PASS
			2371.807	-47.18	-20.00	PASS
			2372.807	-47.19	-20.00	PASS
			2373.807	-47.17	-20.00	PASS
			2374.807	-47.17	-20.00	PASS
			2375.807	-47.15	-20.00	PASS
			2376.807	-47.15	-20.00	PASS
			2377.807	-47.15	-20.00	PASS
			2378.807	-47.15	-20.00	PASS
			2379.807	-47.14	-20.00	PASS
			2380.807	-47.87	-20.00	PASS
			2381.807	-47.87	-20.00	PASS
			2382.5	-47.87	-10.00	PASS
			2382.807	-47.86	-10.00	PASS
			2383.5	-47.86	-10.00	PASS
			2384.5	-47.87	-10.00	PASS
			2385.5	-47.85	-10.00	PASS
			2386.5	-47.87	-10.00	PASS
			2387.5	-47.86	-10.00	PASS
			2388.5	-47.86	-10.00	PASS
			2389.5	-47.88	-10.00	PASS
			2390.5	-47.72	-10.00	PASS
			2391.5	-47.71	-10.00	PASS
			2392.5	-47.68	-10.00	PASS
			2393.5	-47.72	-10.00	PASS
			2394.5	-47.72	-10.00	PASS
			2395.5	-47.69	-10.00	PASS
			2396.5	-47.67	-10.00	PASS
			2397.5	-47.70	-10.00	PASS

			2398.5	-47.69	-10.00	PASS
			2399.5	-47.70	-10.00	PASS
			2484	-18.65	-10.00	PASS
			2485	-19.84	-10.00	PASS
			2486	-20.94	-10.00	PASS
			2487	-21.97	-10.00	PASS
			2488	-22.82	-10.00	PASS
			2489	-23.81	-10.00	PASS
			2490	-24.59	-10.00	PASS
			2491	-25.35	-10.00	PASS
			2492	-26.32	-10.00	PASS
			2493	-27.51	-10.00	PASS
			2494	-28.82	-10.00	PASS
			2495	-30.25	-10.00	PASS
			2496	-32.45	-10.00	PASS
			2497	-33.99	-10.00	PASS
			2498	-35.70	-10.00	PASS
			2499	-36.58	-10.00	PASS
			2500	-37.22	-10.00	PASS
			2500.693	-37.49	-10.00	PASS
			2501	-37.73	-10.00	PASS
			2501.693	-38.10	-20.00	PASS
			2502.693	-38.75	-20.00	PASS
			2503.693	-39.34	-20.00	PASS
			2504.693	-39.93	-20.00	PASS
			2505.693	-47.09	-20.00	PASS
			2506.693	-47.10	-20.00	PASS
			2507.693	-47.11	-20.00	PASS
			2508.693	-47.10	-20.00	PASS
			2509.693	-47.09	-20.00	PASS
			2510.693	-46.83	-20.00	PASS
			2511.693	-46.83	-20.00	PASS
			2512.693	-46.80	-20.00	PASS
			2513.693	-46.80	-20.00	PASS
			2514.693	-46.80	-20.00	PASS
			2515.693	-46.80	-20.00	PASS
			2516.693	-46.78	-20.00	PASS
			2517.693	-46.80	-20.00	PASS
			2518.386	-46.79	-20.00	PASS
			2518.693	-46.80	-20.00	PASS

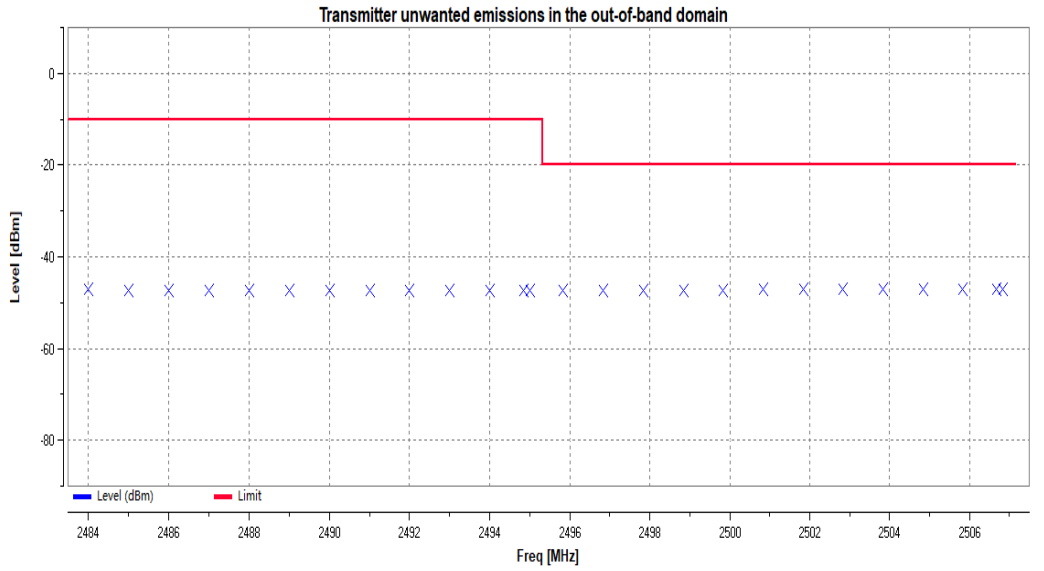
Note: The antenna gain 0.90 was added into the result.

Test Graphs

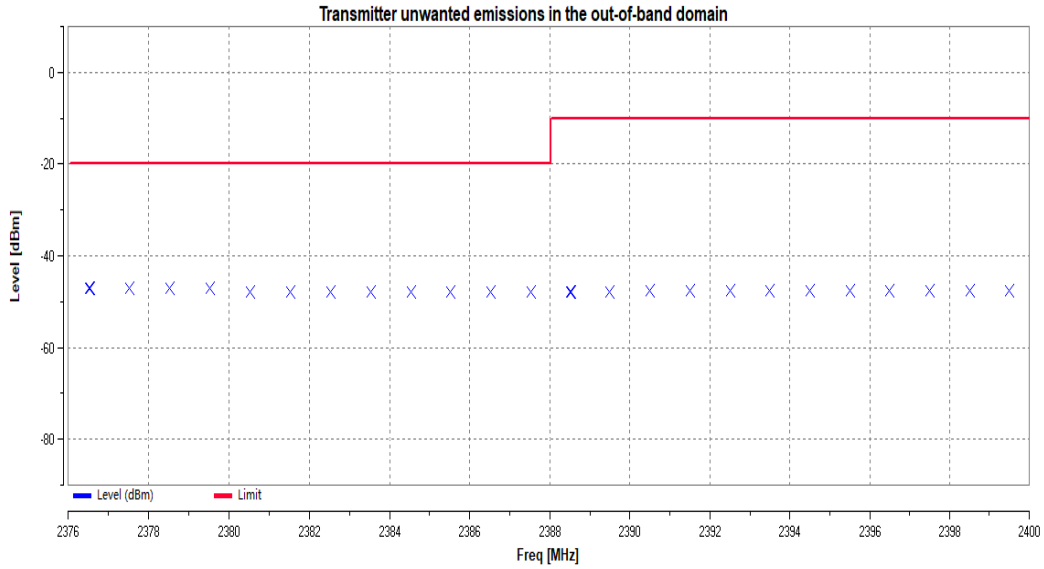
11B_Ant1_2412_2400MHz-2BW to 2400MHz



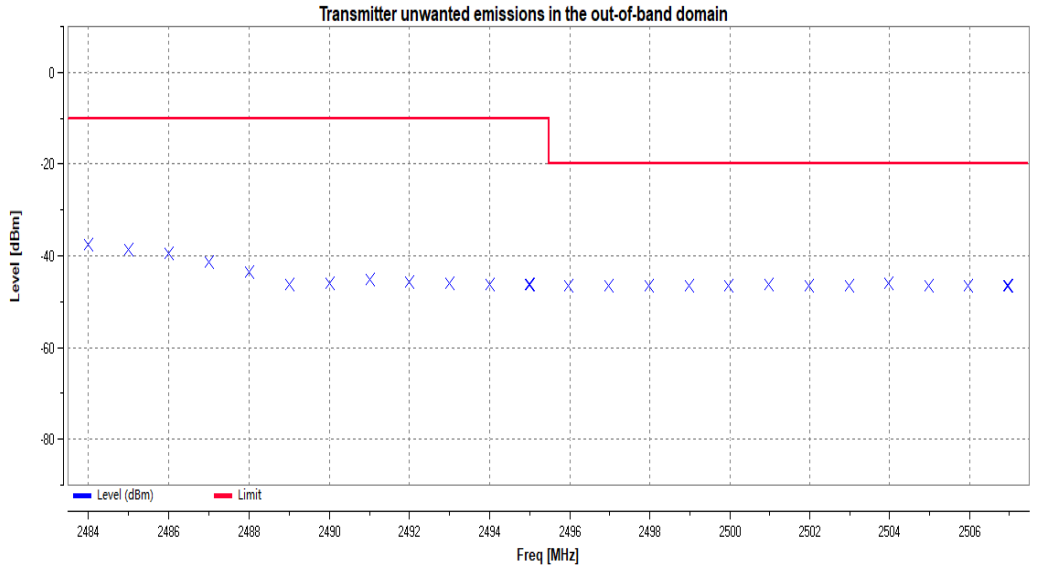
11B_Ant1_2412_2483.5MHz to 2483.5MHz+2BW



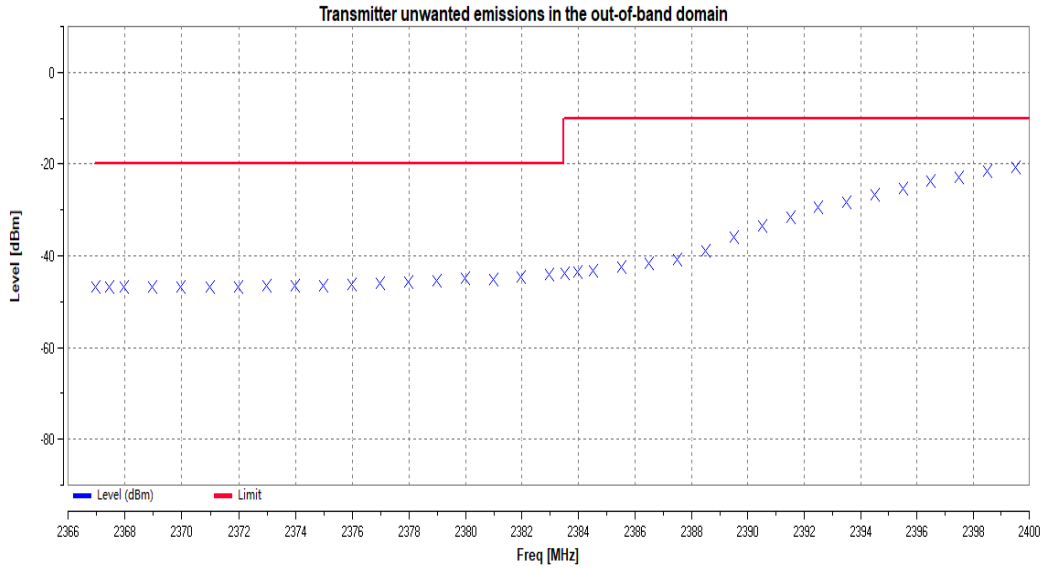
11B_Ant1_2472_2400MHz-2BW to 2400MHz



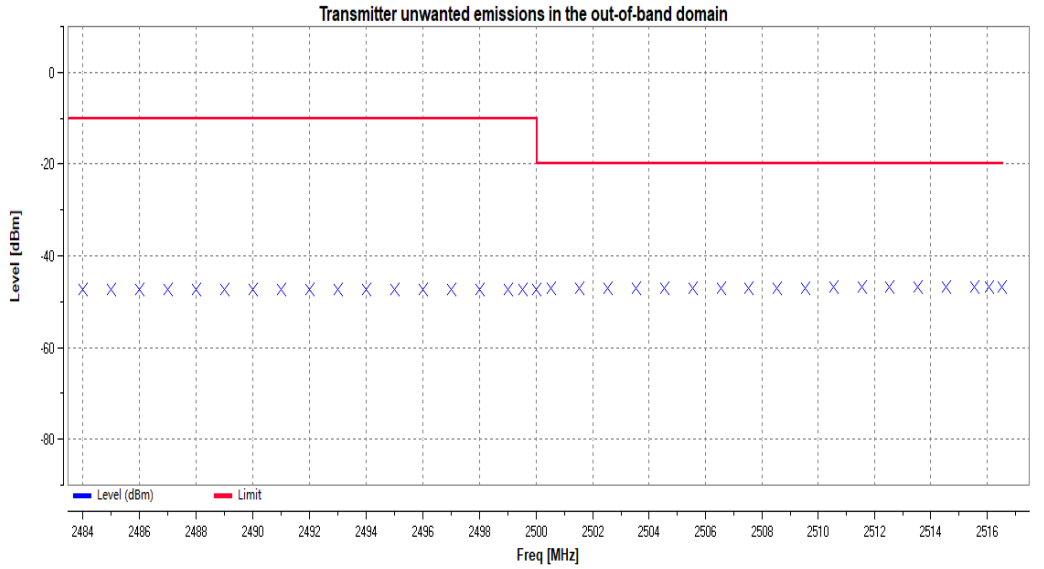
11B_Ant1_2472_2483.5MHz to 2483.5MHz+2BW



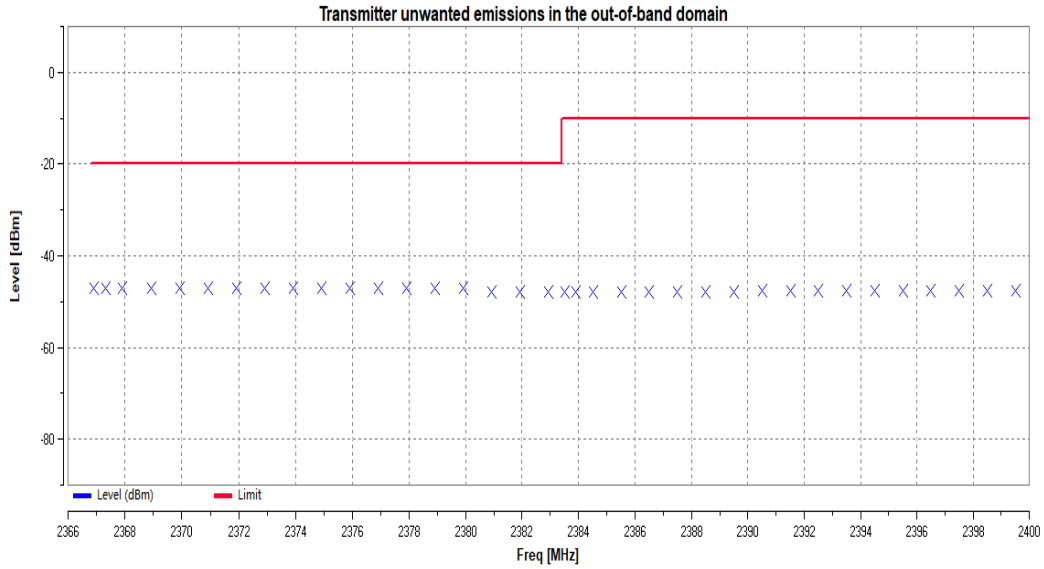
11G_Ant1_2412_2400MHz-2BW to 2400MHz



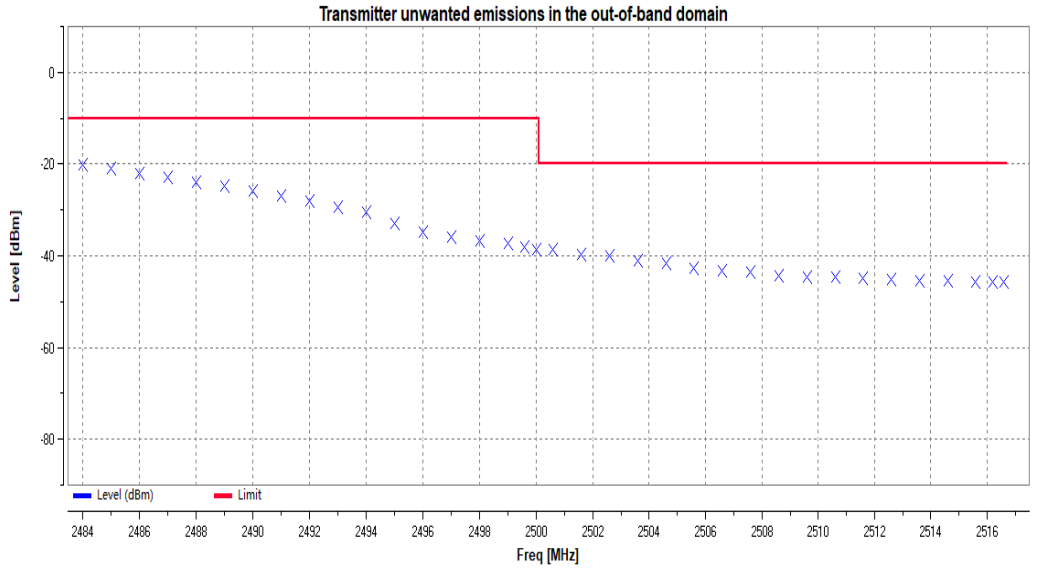
11G_Ant1_2412_2483.5MHz to 2483.5MHz+2BW



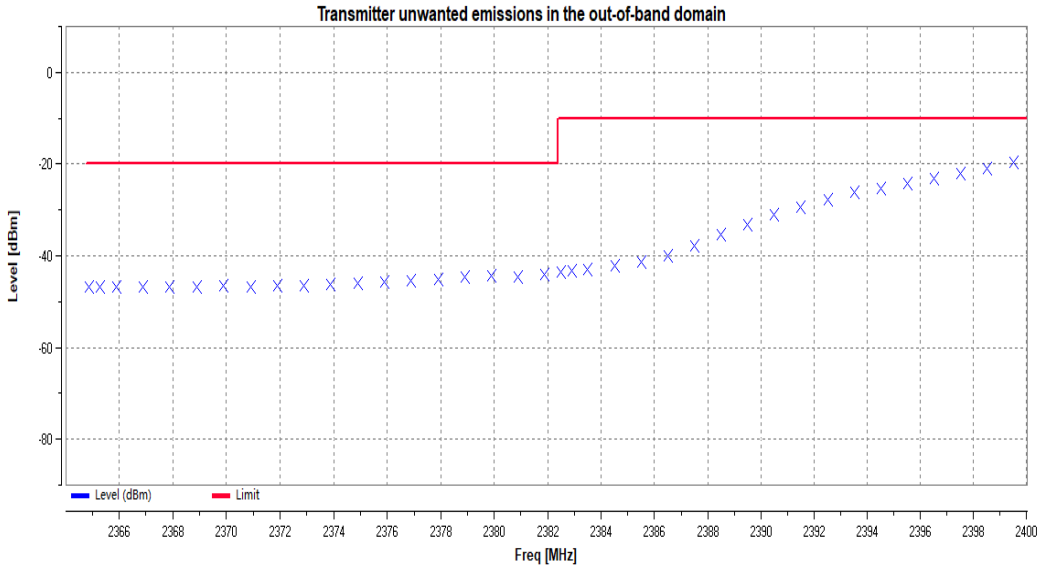
11G_Ant1_2472_2400MHz-2BW to 2400MHz



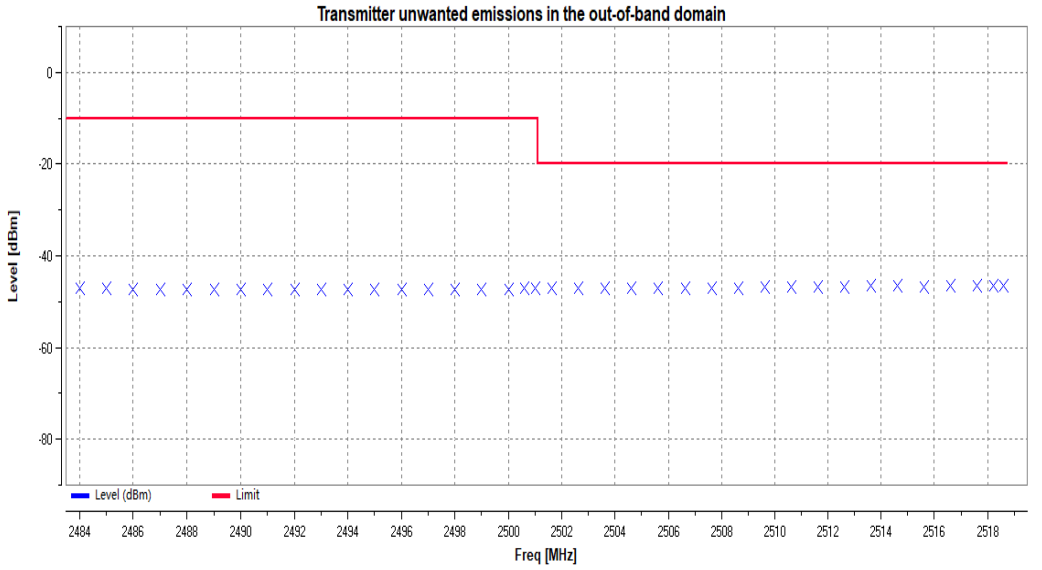
11G_Ant1_2472_2483.5MHz to 2483.5MHz+2BW



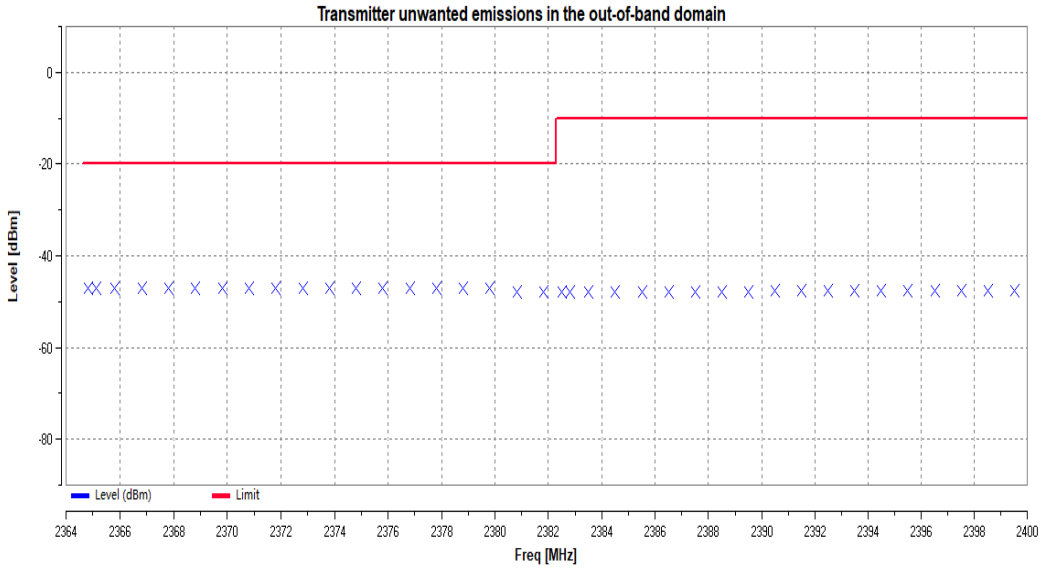
11N20SISO_Ant1_2412_2400MHz-2BW to 2400MHz



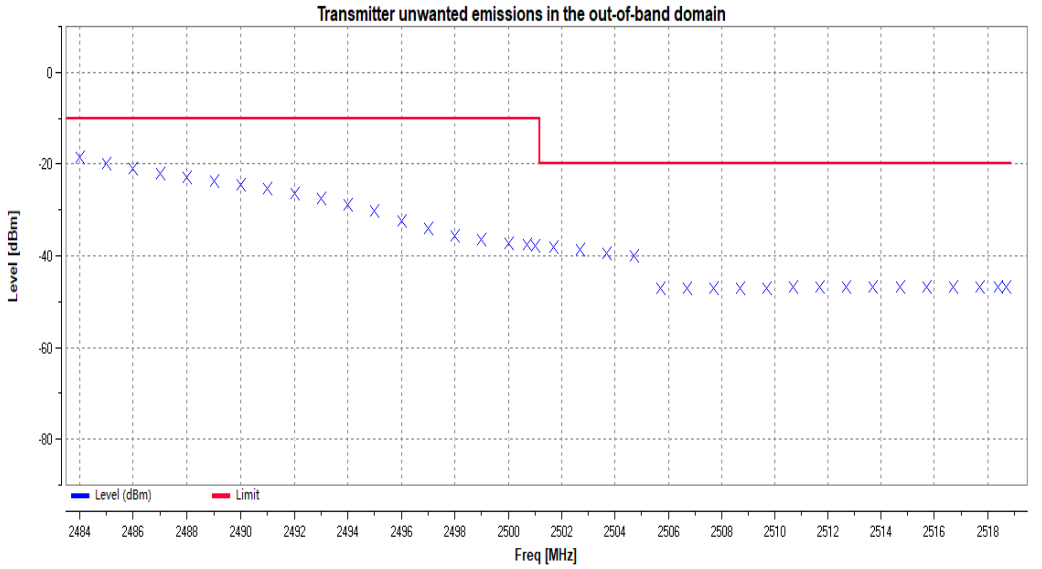
11N20SISO_Ant1_2412_2483.5MHz to 2483.5MHz+2BW



11N20SISO_Ant1_2472_2400MHz-2BW to 2400MHz



11N20SISO_Ant1_2472_2483.5MHz to 2483.5MHz+2BW



Receiver Blocking

Test Result

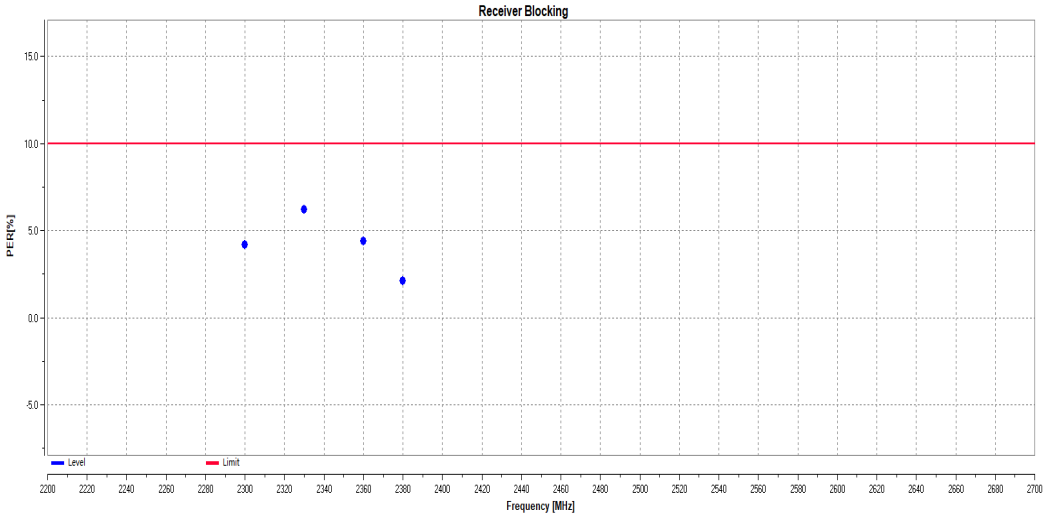
Test Mode	Antenna	Freq. [MHz]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
11B	Ant1	2412	-73.1	2300	-33.1	4.2	≤10	PASS
			-73.1	2330	-33.1	6.2	≤10	PASS
			-73.1	2360	-33.1	4.4	≤10	PASS
			-67.1	2380	-33.1	2.1	≤10	PASS
		2472	-67.1	2504	-33.1	3.6	≤10	PASS
			-73.1	2524	-33.1	7.0	≤10	PASS
			-73.1	2584	-33.1	4.8	≤10	PASS
			-73.1	2674	-33.1	6.3	≤10	PASS

Note: The Maximum EIRP is 16.75dBm>10dBm and the EUT is an adaptive device, so it belongs to the receiver category 1.

Note: The antenna gain is 0.90dBi which was added into the Wanted and CW signal.

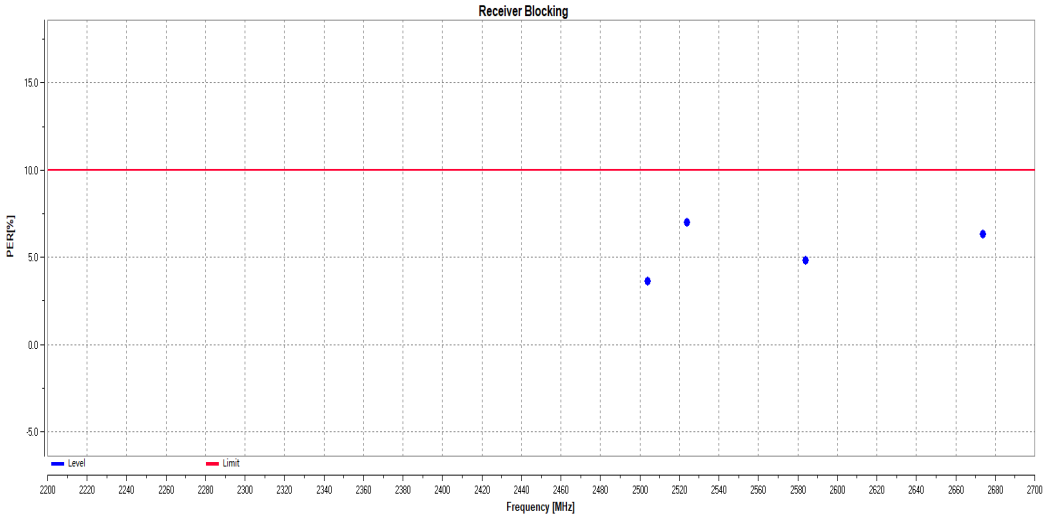
Test Graphs

11B_Ant1_2412



Freq.	2380	2430	2460	2480
PER	4.20	6.20	4.40	2.10

11B_Ant1_2472



Freq.	2484	2524	2564	2674
PER	3.60	7.00	4.80	6.30

Adaptivity

Test Result

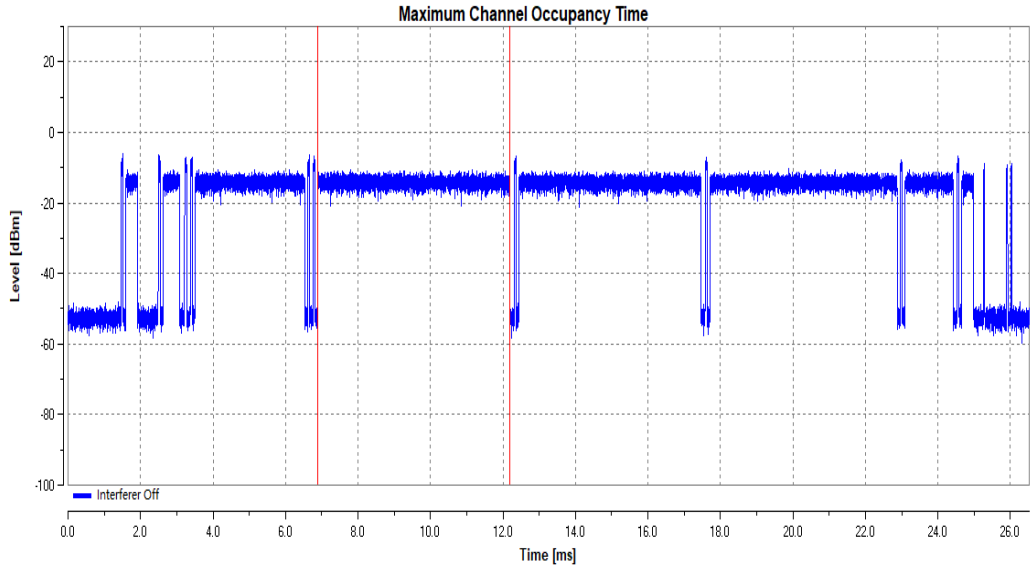
Test Mode	Antenna	Freq. [MHz]	Max.COT [ms]	Limit[ms]	Min.Idle Time[ms]	Limit[ms]	Verdict
11B	Ant1	2412	5.304	13	0.075	0.018	PASS
		2472	5.304	13	0.036	0.018	PASS

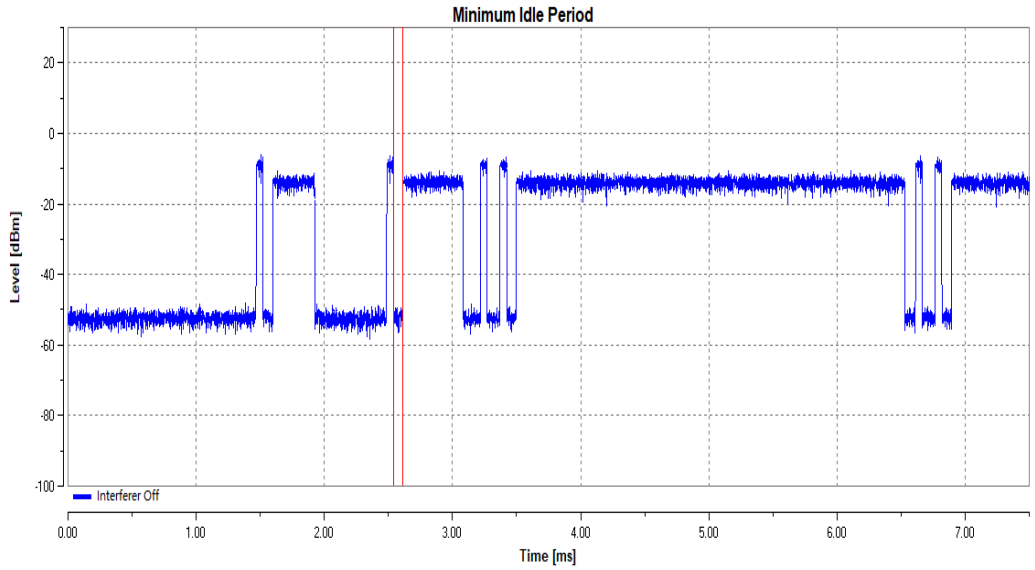
Test Mode	Antenna	Freq. [MHz]	Add Signal Type	Add Signal Time[ms]	Add Signal Level[dBm]	Max. Short Time [%]	Limit [%]	Verdict
11B	Ant1	2412	AWGN	3001	-65.52	1.80	10	PASS
			CW	63001	-34.10	0.00	10	PASS
		2472	AWGN	3001	-65.45	0.00	10	PASS
			CW	63001	-34.10	0.00	10	PASS

Note: The antenna gain is 0.90dBi which was added into the Add Signal Level.

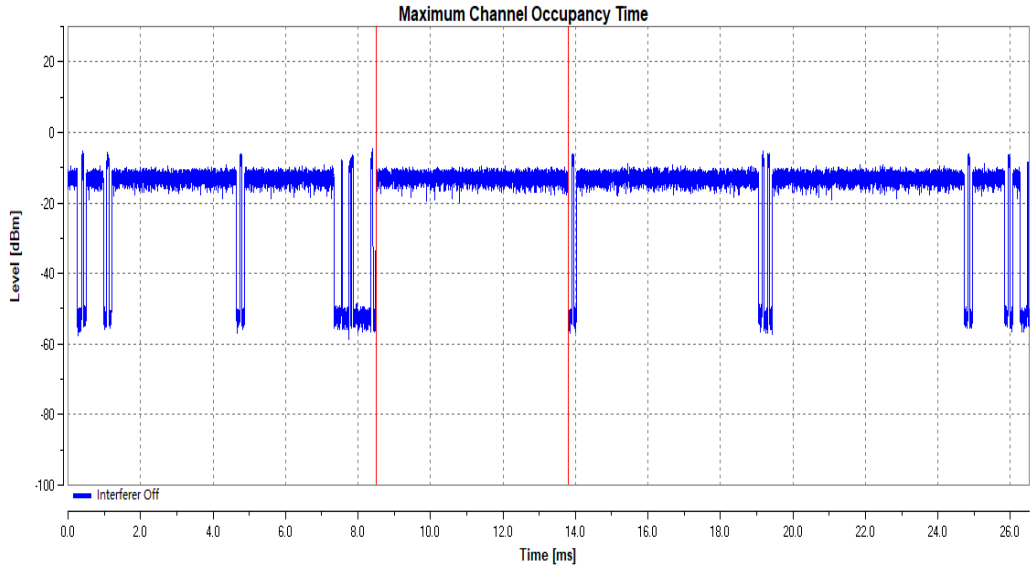
Test Graphs

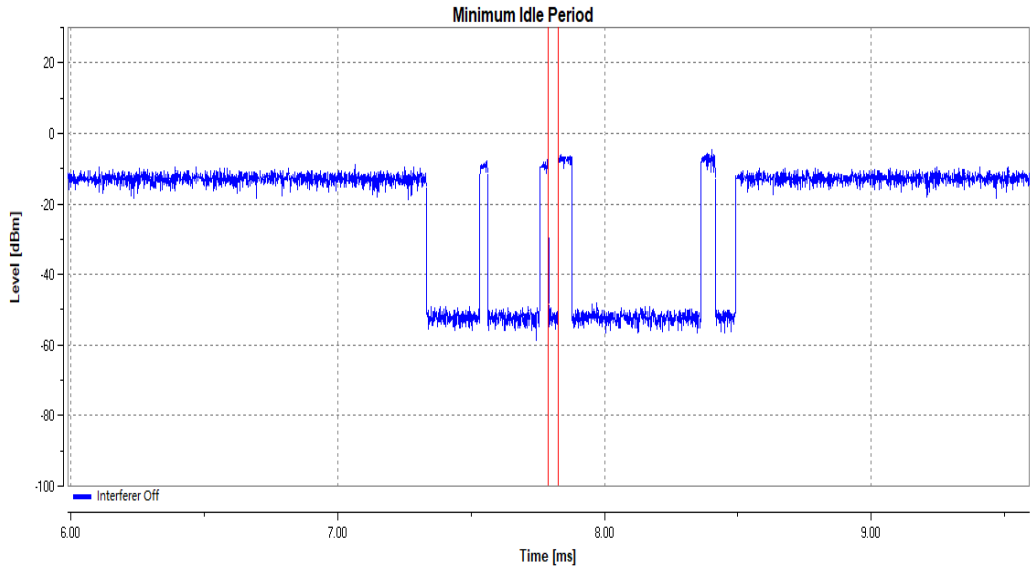
11B_Ant1_2412



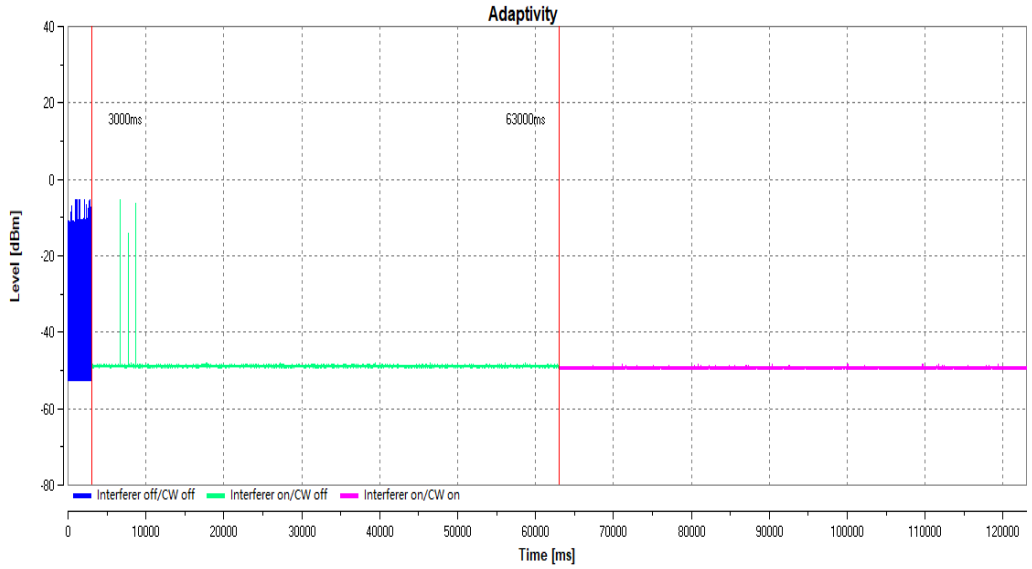


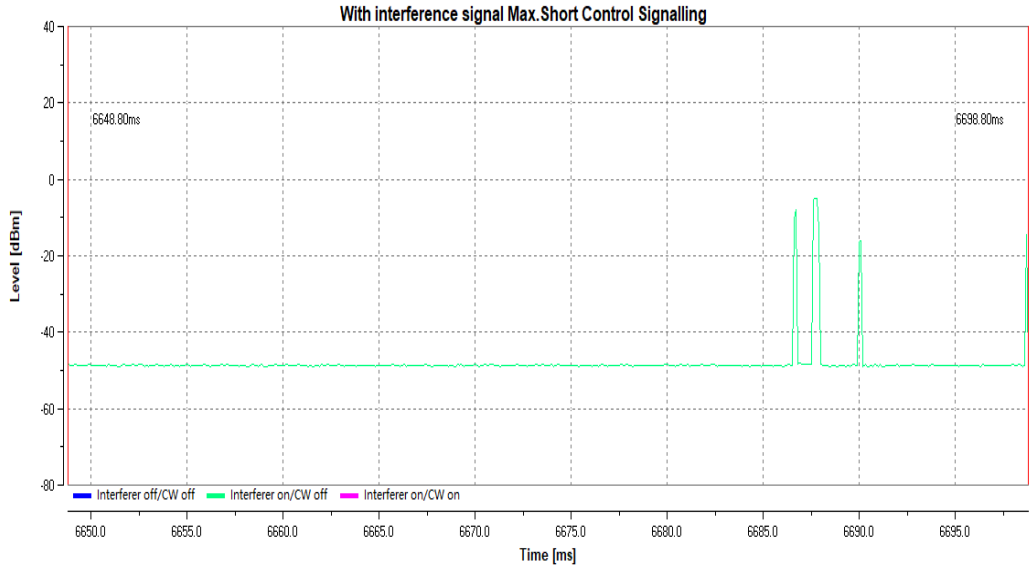
11B_Ant1_2472

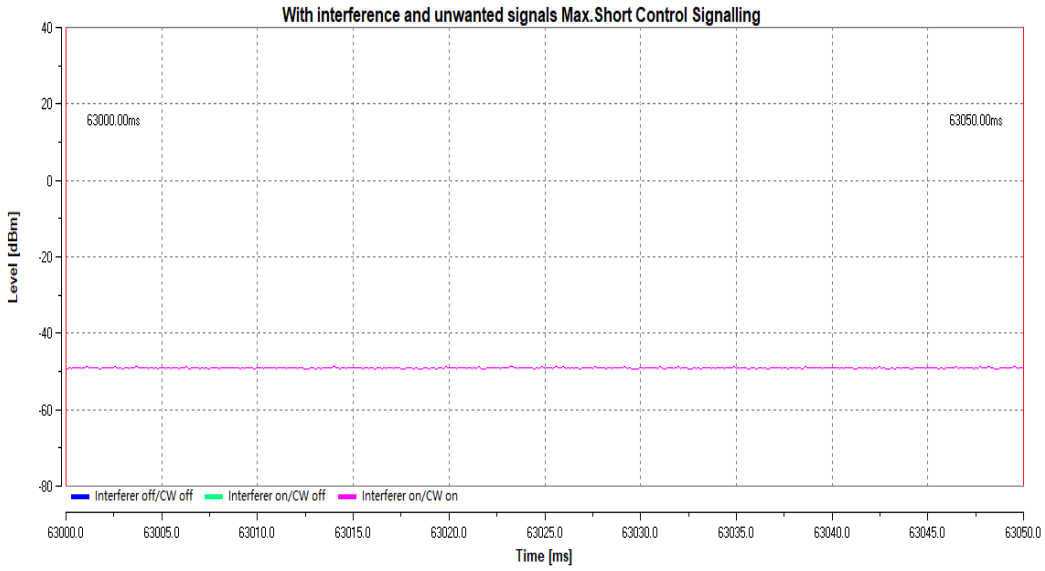




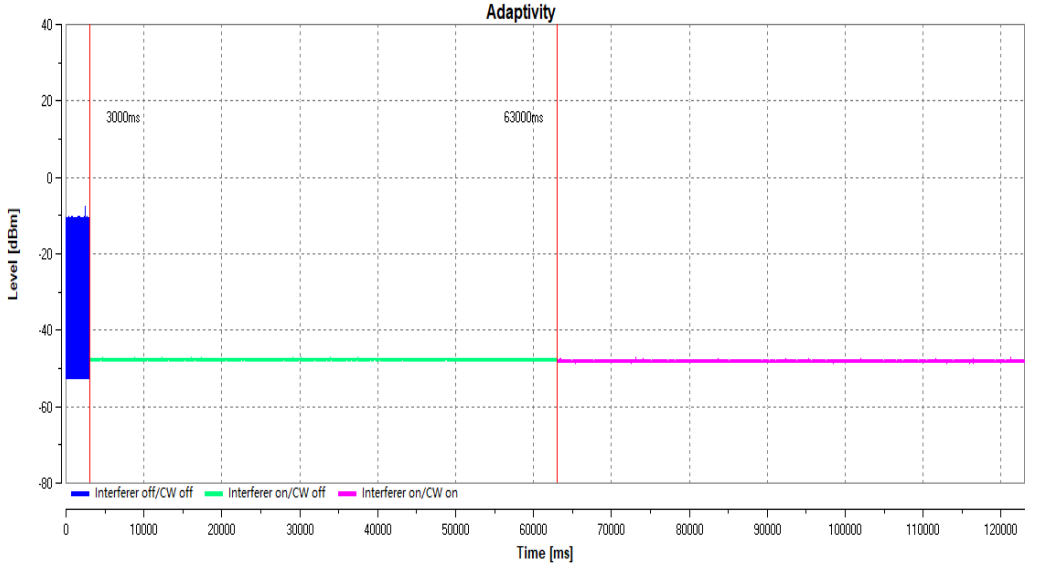
11B_Ant1_2412

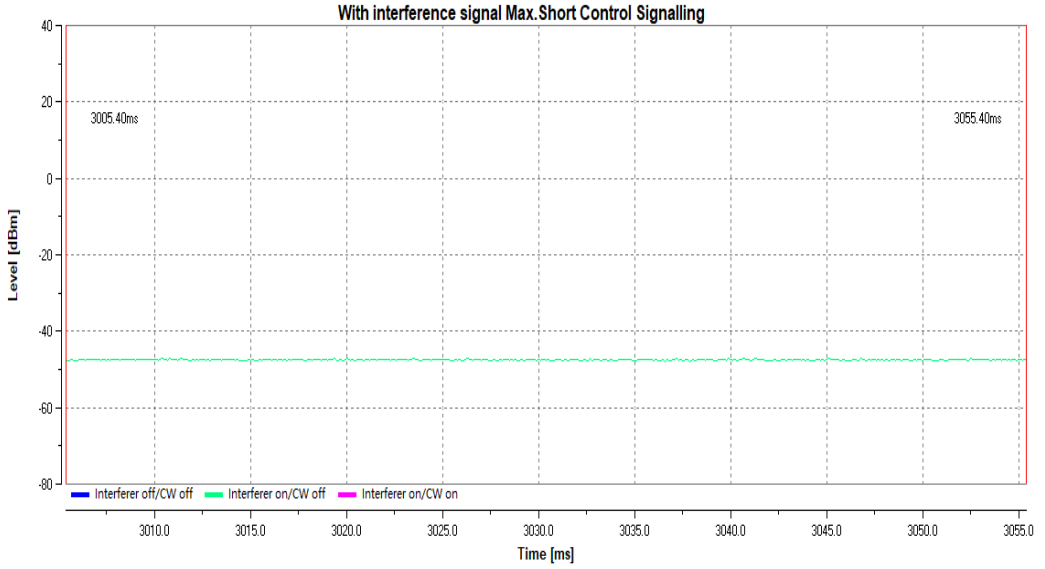






11B_Ant1_2472





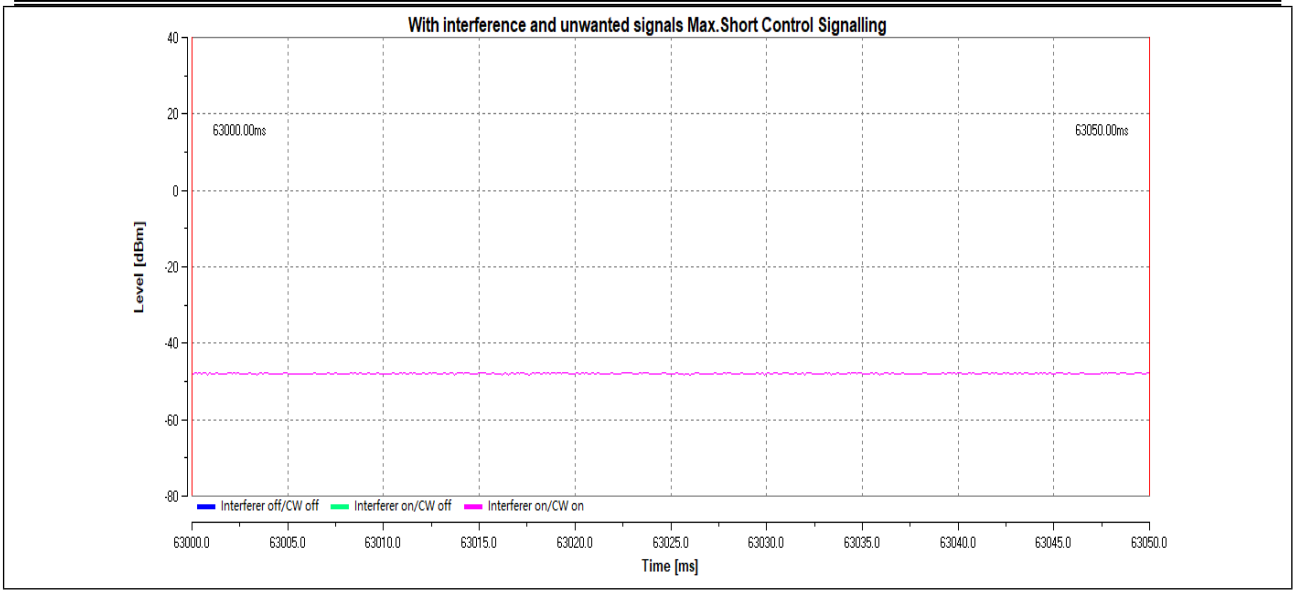

With interference and unwanted signals Max.Short Control Signalling
63000.00ms
63050.00ms
Level [dBm]
40
20
0
-20
-40
-60
-80
Interferer off/CW off
Interferer on/CW off
Interferer on/CW on
63000.0
63005.0
63010.0
63015.0
63020.0
63025.0
63030.0
63035.0
63040.0
63045.0
63050.0
Time [ms]

EXHIBIT A - E.2 INFORMATION AS REQUIRED BY EN 300 328 V2.2.2, CLAUSE 5.4.1

In accordance with EN 300 328, clause 5.4.1, the following information is provided by the supplier.

a) The type of modulation used by the equipment:

☐ FHSS
☒ other forms of modulation

b) In case of FHSS modulation:

In case of non-Adaptive Frequency Hopping equipment:
The number of Hopping Frequencies:_____.

In case of Adaptive Frequency Hopping Equipment:
The maximum number of Hopping Frequencies:_____;
The minimum number of Hopping Frequencies: _____;

The (average) Dwell Time:_____;

c) Adaptive / non-adaptive equipment:

☐ non-adaptive Equipment
☒ adaptive Equipment without the possibility to switch to a non-adaptive mode
☐ adaptive Equipment which can also operate in a non-adaptive mode

d) In case of adaptive equipment:

The Channel Occupancy Time implemented by the equipment: 5.304 ms

☐ The equipment has implemented an LBT based DAA mechanism

In case of equipment using modulation different from FHSS:

☐ The equipment is Frame Based equipment
☒ The equipment is Load Based equipment
☐ The equipment can switch dynamically between Frame Based and Load Based equipment

The CCA time implemented by the equipment: 36 µs

☐ The equipment has implemented an non-LBT based DAA mechanism
☐ The equipment can operate in more than one adaptive mode

e) In case of non-adaptive Equipment:

The maximum RF Output Power (e.i.r.p.): _____dBm
The maximum (corresponding) Duty Cycle: _____ %

Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):
_____.

f) The worst case operational mode for each of the following tests:

RF Output Power: 16.75dBm;
Power Spectral Density 7.30dBm/MHz;
Duty cycle, Tx-Sequence, Tx-gap N/A;
Accumulated Transmit Time, Minimum Frequency Occupation & Hopping Sequence (only for FHSS equipment) N/A;
Hopping Frequency Separation (only for FHSS equipment) N/A;
Medium Utilisation N/A;
Adaptivity Pass
Receiver Blocking Pass;
Nominal Channel Bandwidth 20MHz;
Transmitter unwanted emissions in the OOB domain -18.65dBm/MHz;
Transmitter unwanted emissions in the spurious domain -52.15dBm;
Receiver spurious emissions -58.49dBm;

g) The different transmit operating modes (tick all that apply):

☒ Operating mode 1: Single Antenna Equipment
☒ Equipment with only 1 antenna
☐ Equipment with 2 diversity antennas but only 1 antenna active at any moment in time
☐ Smart Antenna Systems with 2 or more antennas, but operating in a (legacy) mode where only 1 antenna is used. (e.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)

☐ Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming
☐ Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)
☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2
Note: Add more lines if more channel bandwidths are supported.

☐ Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming
☐ Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)
☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2
Note: Add more lines if more channel bandwidths are supported.

h) In case of Smart Antenna Systems:

The number of Receive chains: _____;
The number of Transmit chains:_____;

☐ symmetrical power distribution
☐ asymmetrical power distribution

In case of beam forming, the maximum beam forming gain: N/A dB;

Note: Beam forming gain does not include the basic gain of a single antenna.

i) Operating Frequency Range(s) of the equipment:

Operating Frequency Range 1: 2412 MHz to 2472 MHz
Operating Frequency Range 2: _____ MHz to _____ MHz

Note: Add more lines if more Frequency Ranges are supported.

j) Nominal Channel Bandwidth(s):

Nominal Channel Bandwidth 1:__20__MHz
Nominal Channel Bandwidth 2:___MHz
Nominal Channel Bandwidth 3:___MHz
Nominal Channel Bandwidth 4:___MHz

Note: Add more lines if more channel bandwidths are supported.

k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.):

☒ Stand-alone
☐ Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment)
☐ Plug-in radio device (Equipment intended for a variety of host systems)
☐ Other _____;

l) The normal and the extreme operating conditions that apply to the equipment:

Normal operating conditions (if applicable):

Operating temperature range:__25___ ° C
Other (please specify if applicable):_____

Extreme operating conditions:

Operating temperature range: Minimum:___-10___ ° C Maximum ___+40___° C
Other (please specify if applicable): _____ Minimum: _____ Maximum _____

Details provided are for the: ☒ stand-alone equipment
☐ combined (or host) equipment
☐ test jig

m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p levels:

Antenna Type:

☒ Integral Antenna (information to be provided in case of conducted measurements)

Antenna Gain:__0.9__dBi

If applicable, additional beamforming gain (excluding basic antenna gain):_____ dB

☐ Temporary RF connector provided
☐ No temporary RF connector provided

☐ Dedicated Antennas (equipment with antenna connector)
☐ Single power level with corresponding antenna(s)
☐ Multiple power settings and corresponding antenna(s)

Number of different Power Levels:_____;
Power Level 1:_____ dBm
Power Level 2:_____dBm
Power Level 3:_____.dBm

Note 1: Add more lines in case the equipment has more power levels.
Note 2: These power levels are conducted power levels (at antenna connector).

For each of the Power Levels, provide the intended antenna assemblies, their corresponding gains (G) and the resulting e.i.r.p. levels also taking into account the beamforming gain (Y) if applicable

Power Level 1:_____dBm

Number of antenna assemblies provided for this power level:

Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1			
2			
3			
4			

Note 3: Add more rows in case more antenna assemblies are supported for this power level.

Power Level 2:_____dBm

Number of antenna assemblies provided for this power level:

Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1			
2			
3			
4			

Note 4: Add more rows in case more antenna assemblies are supported for this power level.

Power Level 2:_____dBm

Number of antenna assemblies provided for this power level:

Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1			
2			
3			
4			

Note 5: Add more rows in case more antenna assemblies are supported for this power level.

n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:

Details provided are for the: ☒stand-alone equipment
☐ combined (or host) equipment
☐ test jig

Supply Voltage ☐ AC mains State AC voltage ___V
☒ DC State DC voltage __3.91/5/9__ V

In case of DC, indicate the type of power source
☐ Internal Power Supply
☒ External Power Supply or AC/DC adapter
☒ Battery
☐ Other:_____.

o) Describe the test modes available which can facilitate testing:

The measurements shall be performed during continuously transmitting___.

p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ , proprietary, etc.):

IEEE 802.11™ [i.3]_____.

q) If applicable, the statistical analysis referred to in clause 5.4.1 q)

(to be provided as separate attachment)

r) If applicable, the statistical analysis referred to in clause 5.4.1 r)

(to be provided as separate attachment)

s) Geo-location capability supported by the equipment:

☐ Yes

☐ The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user.

☒ No

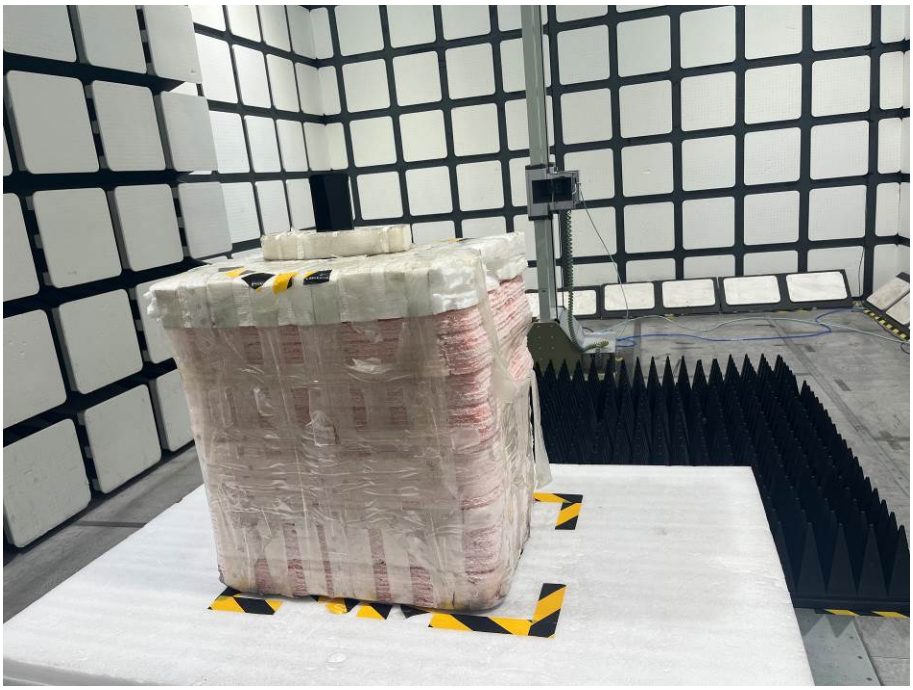
EXHIBIT B - EUT PHOTOGRAPHS

Please refer to the report number is 2601R49433E-EUT.

EXHIBIT C - TEST SETUP PHOTOGRAPHS

Radiated Spurious Emissions Test View (Below 1GHz)

Radiated Spurious Emissions Test View (Above 1GHz)



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