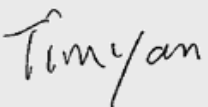


Test report No: 4934525.51

TEST REPORT

Radio Spectrum Matters (RF)

Identification of item tested	Bluetooth & 2.4G WIFI communication Module
Trademark	N/A
Model and /or type reference	JXC8720-18
FCC ID	PUU-GEL-RTL
IC	10798A-GELRTL
HVIN	JXC8720-18 V1.1
Features	3.3 Vdc
Applicant's name / address	Savant Technologies LLC, dba GE Lighting, a Savant Company 1975 Noble Road, Cleveland, OH, 44112, US.
Test method requested, standard	FCC CFR Title 47 Part15 Subpart C Section 15.247; KDB558074 D01v05r02; RSS-Gen Issue 5; RSS-247 Issue 3
Verdict Summary	COMPLIANCE
Tested by (name & signature)	Jazz Liang 
Approved by (name & signature)	Tim Yan 
Date of issue	2025-05-28
Report template No	TRF_EMG 2017-06- other

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GENERAL CONDITIONS

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. This report will not be used for social proof function in China market.

UNCERTAINTY

For all measurements where guidance for the calculation of the instrumentation uncertainty of a measurement is specified in EN 55016-4-2 (CISPR 16-4-2), EN/IEC 61000-4 series or a product standard, the measurement instrumentation uncertainty has been calculated and applied in accordance with these standards.

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa – 106 kPa

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not tested	N/T

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT.			
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT.			
Decimal separator used in this report	☒	Comma (,)	☐ Point (.)

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report nr.	Date	Description
4934525.51	2025-05-28	First release.

REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Description of the item	Bluetooth & 2.4G WIFI communication Module
Trademark	N/A
Model / Type number	JXC8720-18
FCC ID	PUU-GEL-RTL
IC	10798A-GELRTL
HVIN.....	JXC8720-18 V1.1
Hardware	N/A
Software	N/A
Firmware	N/A
Ratings	3.3 Vdc
Manufacturer.....	Same as Applicant
Factory	Shenzhen Jingxun Technology Co., Ltd 3/F, A5 Building Zhiyuan Community No.1001, Xueyuan Road Nanshan District, Shenzhen City, Guangdong, PEOPLE'S REPUBLIC OF CHINA

Based on customer description: Wireless module Characteristic

Operating frequency range(s) – Tx :	2412 – 2462 MHz for 2.4G WIFI 2402 – 2480 MHz for Bluetooth
Operating frequency range(s) – Rx :	2412 – 2462 MHz for 2.4G WIFI 2402 – 2480 MHz for Bluetooth
Type of Modulation	WLAN 2.4GHz : IEEE 802.11b: DSSS (CCK, QPSK, BPSK); IEEE 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM); IEEE 802.11n HT20: OFDM (BPSK, QPSK, 16QAM, 64QAM) Bluetooth LE:GFSK
Antenna type.....	Integrate antenna
Antenna gain.....	0.5 dBi
Operation temperature range	-20 – 85 °C

Antenna List

Antenna Model No.		N/A			
Antenna Manufacturer		N/A			
Antenna Delivery		☒ 1*TX+1*RX	☐ 2*TX+2*RX	☐ 3*TX+3*RX	
Antenna Technology		☒ SISO			
		☐ MIMO	☐ Basic methodology ☐ Sectorized antenna systems ☐ Cross-polarized antennas ☐ Unequal antenna gains, with equal transmit powers ☐ Spatial Multiplexing ☐ Cyclic Delay Diversity (CDD)		
Antenna Type		Integrate antenna			
Antenna Gain					
Antenna Technology		Ant Gain(eth1) (dBi)			
☒ SISO	☒ Ant1	0.5			
	☐ Ant2	-			

The radio module (Bluetooth) operating channels are:

BLE:

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

The WIFI mode operating channels are:

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

Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 3.3 V					
	☐	Battery:					
Mounting position.....:	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☒	Other: Installed on the circuit board					

Intended use of the Equipment Under Test (EUT)
--

The apparatus as supplied for the test is Wireless module.
--

Hence,model JXC8720-18 were chosen for full test.

Copy of marking plate:

Refer to document label.

1.2 Test data

Test Location	DEKRA Testing and Certification (Shanghai) Ltd. Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China FCC Designation Number: CN1324; ISED CAB identifier: CN0130
Date of receipt of test item	2025-03-05
Date (s) of performance of tests	2025-03-05 to 2025-04-02
Test sample	Normal sample: JXC8720-18(Lab no.4934525-1), RF conducted sample: JXC8720-18(Lab no.4934525-2), RF radiated sample: JXC8720-18(Lab no.4934525-1)

1.3 The environment(s) in which the EUT is intended to be used

The equipment under test (EUT) is intended to be used in the following environment(s):

☒	Residential (domestic) environment.
☒	Commercial and light-industrial environment.
☐	Industrial environment.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Operating mode	Operating mode description	Used for methos	
		Conducted	Radiated
1	Transmitting at WIFI	☒	☒
2			
3			
4			
<u>Supplemental information:</u> ---			

2.2 Support / Auxiliary equipment / unit / software for the EUT

The EUT has been tested with the following auxiliary equipment / unit / software:

Auxiliary equipment / unit / software	Type / Version	Manufacturer	Supplied by
Laptop	Latitude 5488	DELL	DEKRA
Serial port tool	-	-	DEKRA
UI_mptool	Ameba series mptool 1v16	-	Client
<u>Supplemental information:</u> ---			

2.3 Test Configuration / Block diagram used for tests

Refer to Annex 3.

2.4 Measurement procedure

The EUT was controlled by a serial PCB(Serial port tool) which provided by manufacturer which connected to laptop through the com port. After connected, run the software "Ameba series mptool 1v16" supplied by manufacturer to control the EUT work in required test mode as below table.

RF Mode	Set_channel(MHz)	Set_power in software
IEEE 802.11 b/g/n20	2412	115
	2437	115
	2462	115

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2022	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
KDB 558074 D01 v05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
RSS-Gen Issue 5 Amendment 1	2019	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 3	2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

3.3 Overview of results

FCC measurement			
Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	FCC 15.207	N/A	See 1)
Emissions in non-restricted frequency bands	FCC 15.247(d), FCC 15.209	PASS	---
Emissions in restricted frequency bands	FCC 15.247(d), FCC 15.209	PASS	---
Duty cycle	ANSI C63.10:2013	PASS	---
Band Edge	FCC 15.247(d)	PASS	---
Fundamental emission output power	FCC 15.247(b)(3)	PASS	---
DTS Bandwidth	FCC 15.247(a)(2)	PASS	---
Power Spectral Density	FCC 15.247(e)	PASS	---
Antenna Requirement	FCC 15.203	PASS	---
<u>Supplementary information:</u>			
1) The EUT is module which is built-in used.			

ISED measurement			
Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	RSS-Gen Issue 5 Section 8.8	N/A	See 1)
Emissions in restricted frequency bands	RSS-Gen Issue 5 Section 8.9&8.10	PASS	---
Emissions in non-restricted frequency bands	RSS-247 Issue 3 Section 5.5 RSS-Gen Issue 5 Section 8.9	PASS	---
Duty cycle	ANSI C63.10:2013	PASS	---
Band Edge	RSS-Gen Issue 5 Section 8.10	PASS	---
Fundamental emission output power	RSS-247 Issue 3 Section 5.4(d)	PASS	---
DTS Bandwidth	RSS-Gen Issue 5 Section 6.7 RSS-247 Issue 3 section 5.2 a)	PASS	---
Power Spectral Density	RSS-247 Issue 3 Section 5.2(b)	PASS	---
Antenna Requirement	RSS-Gen Issue 5 Section 6.8	PASS	---
<u>Supplementary information:</u>			
1) The EUT is module which is built-in used.			

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result.

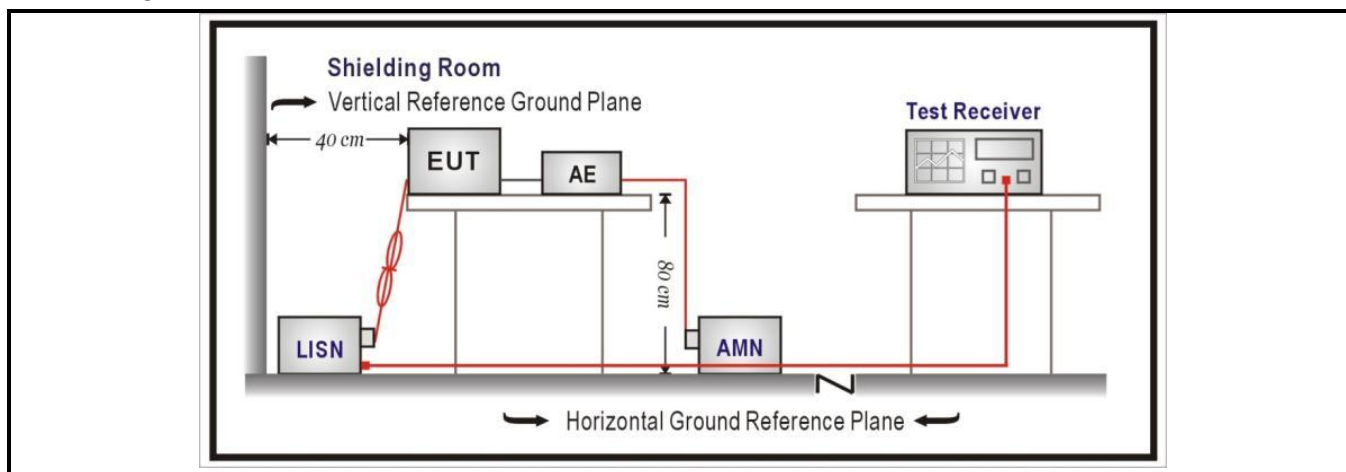
4 TRANSMITTER TEST RESULTS

4.1 AC Power Line Conducted Emission	VERDICT: N/A
---	---------------------

Limits

FCC Part 15 Subpart C Paragraph 15.207 RSS-Gen Issue 5 Section 8.8				
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾	Limit: AV [dB(μV) ¹⁾	IF BW	Detector(s)
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾	9 KHz	QP, AV
0,50 - 5,0	56	46	9 KHz	QP, AV
5,0 - 30	60	50	9 KHz	QP, AV
¹⁾ At the transition frequency, the lower limit applies.				
²⁾ The limit decreases linearly with the logarithm of the frequency.				

Test Configuration



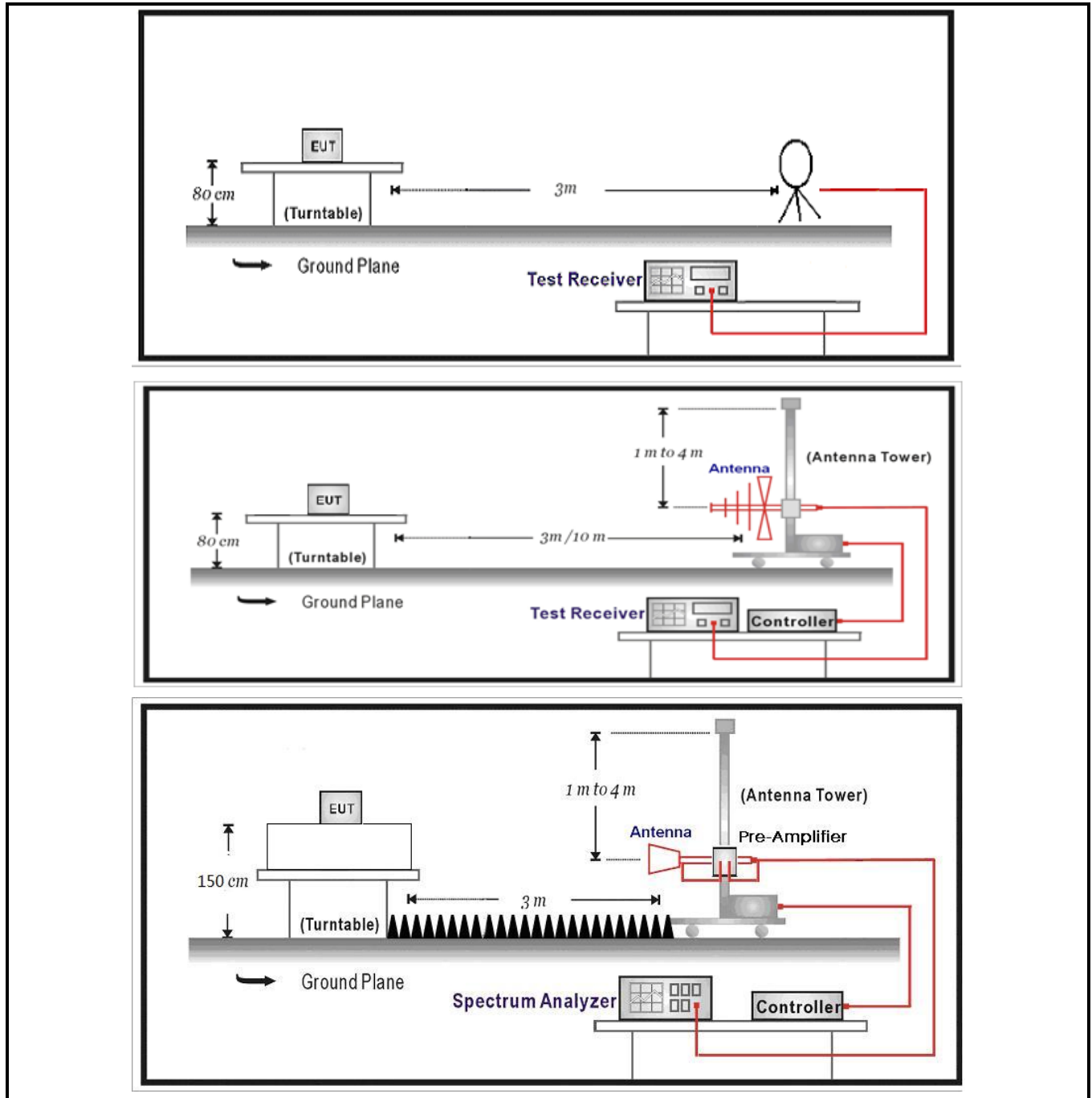
Performed measurements

Port under test		Terminal							
☐	AC mains input power	☐	N	☒	L1	☐	L2	☐	L3
☐	DC input power	☐	Positive (+)			☐	Negative (-)		
Test method applied		☐	Artificial mains network						
		☐	Voltage probe						
Test setup		☐	Table top	☐	Artificial hand applied				
		☐	Floor standing	☐	Other:				
		Refer to the Annex 2 for test setup photo(s).							
Operating mode(s) used		Mode 2							
Envirment condition (temperature; humidity)		23,0 °C; 45,0 %							
Remark		-							

4.2	Emissions in non-restricted frequency bands	VERDICT: PASS
------------	--	----------------------

Emissions Limit 15.209(a)			
Emissions Limit: RSS-Gen Issue 5 Section 8.9			
Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).			

Test Configuration



Performed measurements

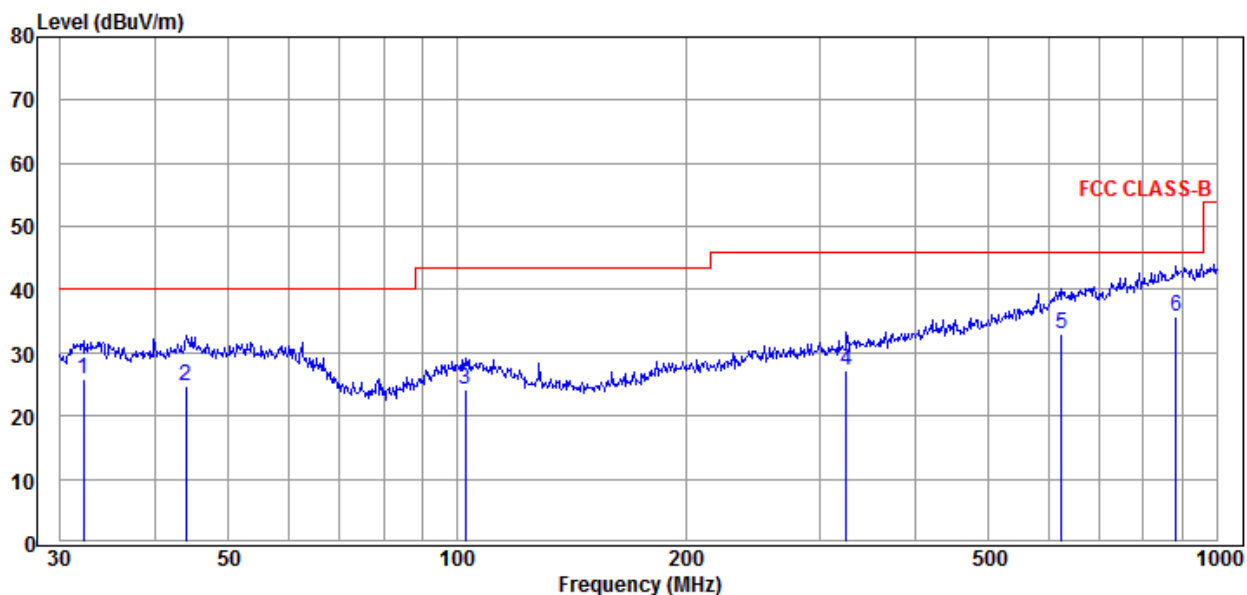
Port under test	Enclosure port	
Test method applied	☐	Conducted measurement
	☒	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	1)The test frequency range, 9kHz~30MHz, 18GHz~26GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report. 2)The EUT are tested in three orientations. The record is the worst orientation which refer to the Annex 3 for test setup photo(s).	

Results of 30 – 1000 MHz

Model	JXC8720-18
Operation Mode	Mode 1 @2462MHz (worst case)
Test voltage	3.3Vdc

Results

Horizontal



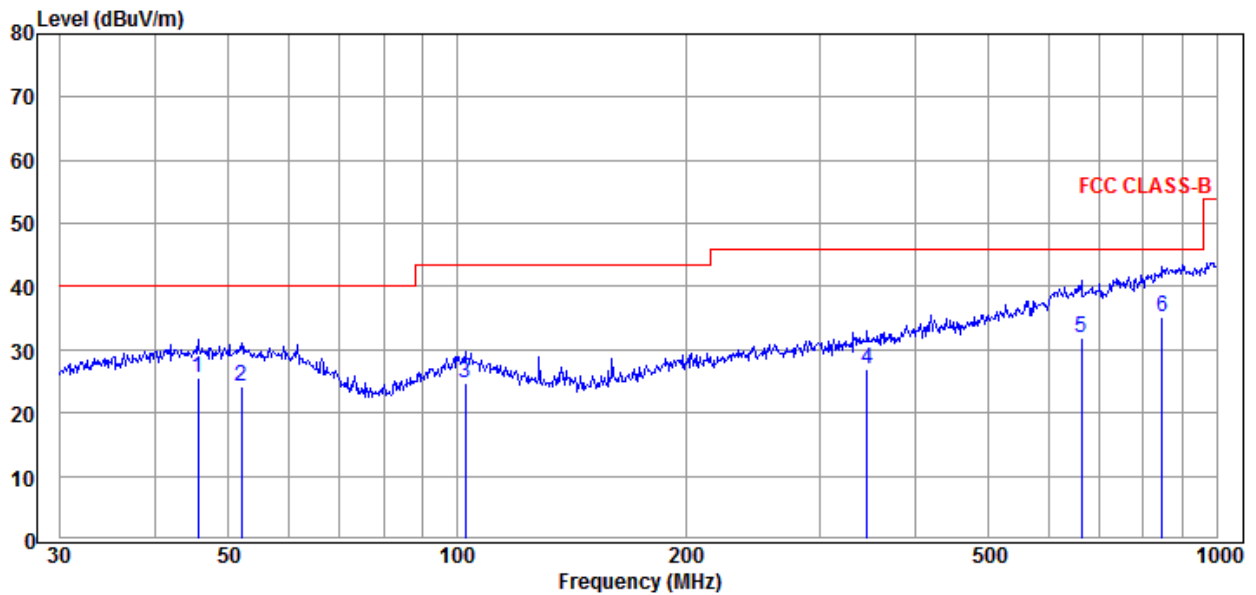
Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
32.18	7.34	18.45	25.79	40.00	14.21
43.97	3.96	20.74	24.70	40.00	15.30
102.36	4.96	19.11	24.07	43.50	19.43
325.60	4.96	22.20	27.16	46.00	18.84
625.08	3.96	29.14	33.10	46.00	12.90
884.50	3.10	32.50	35.60	46.00	10.40

Remarks:

- 1) C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

No other significant emissions were measured at the frequency range of interest employing the QP detectors.

Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
45.54	4.76	20.81	25.57	40.00	14.43
52.03	3.35	20.82	24.17	40.00	15.83
102.36	5.69	19.11	24.80	43.50	18.70
346.81	4.00	22.92	26.92	46.00	19.08
663.47	2.64	29.35	31.99	46.00	14.01
848.06	3.39	31.90	35.29	46.00	10.71

Remarks:

- 1) C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

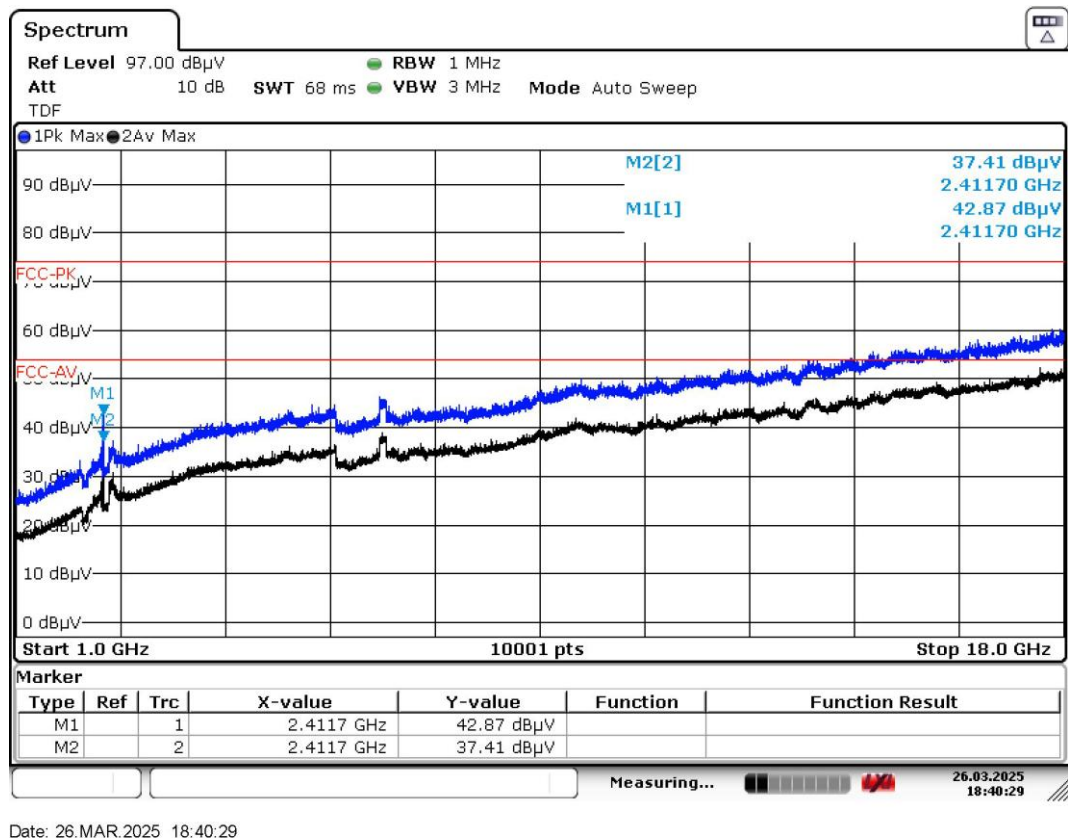
No other significant emissions were measured at the frequency range of interest employing the QP detectors.

Results of 1 – 18 GHz

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2412 MHz, IEEE 802.11 b
Test voltage	3.3Vdc

Results

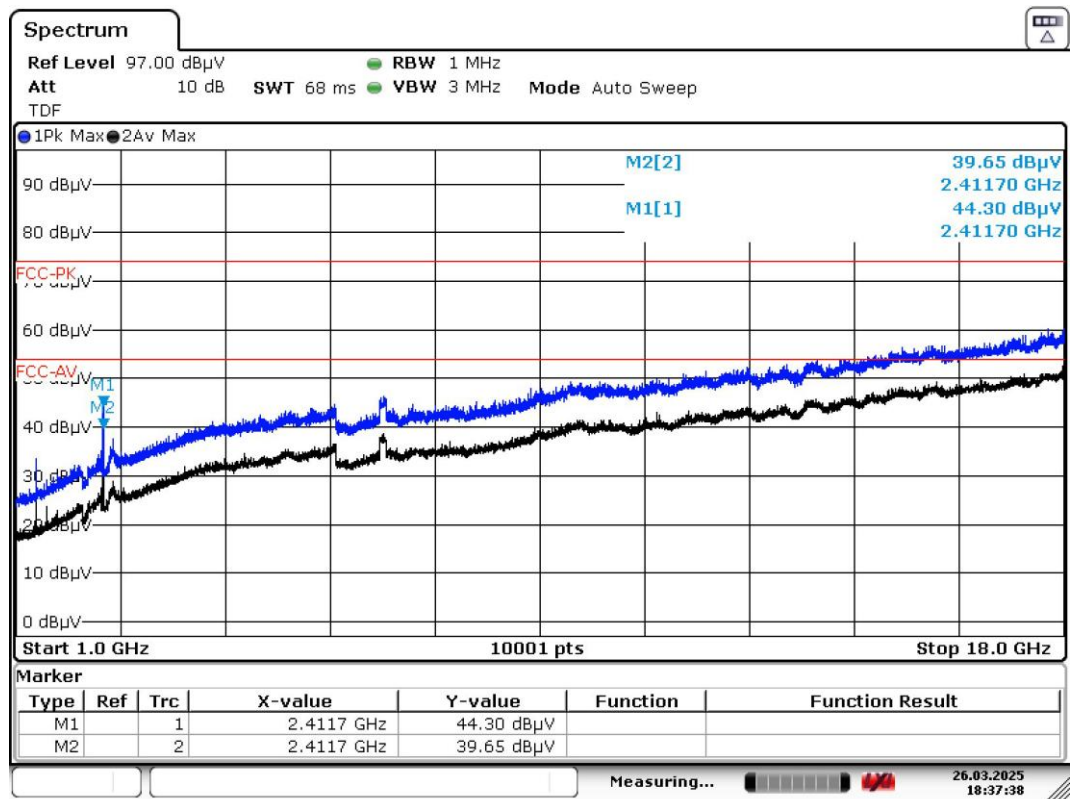
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 18:37:38

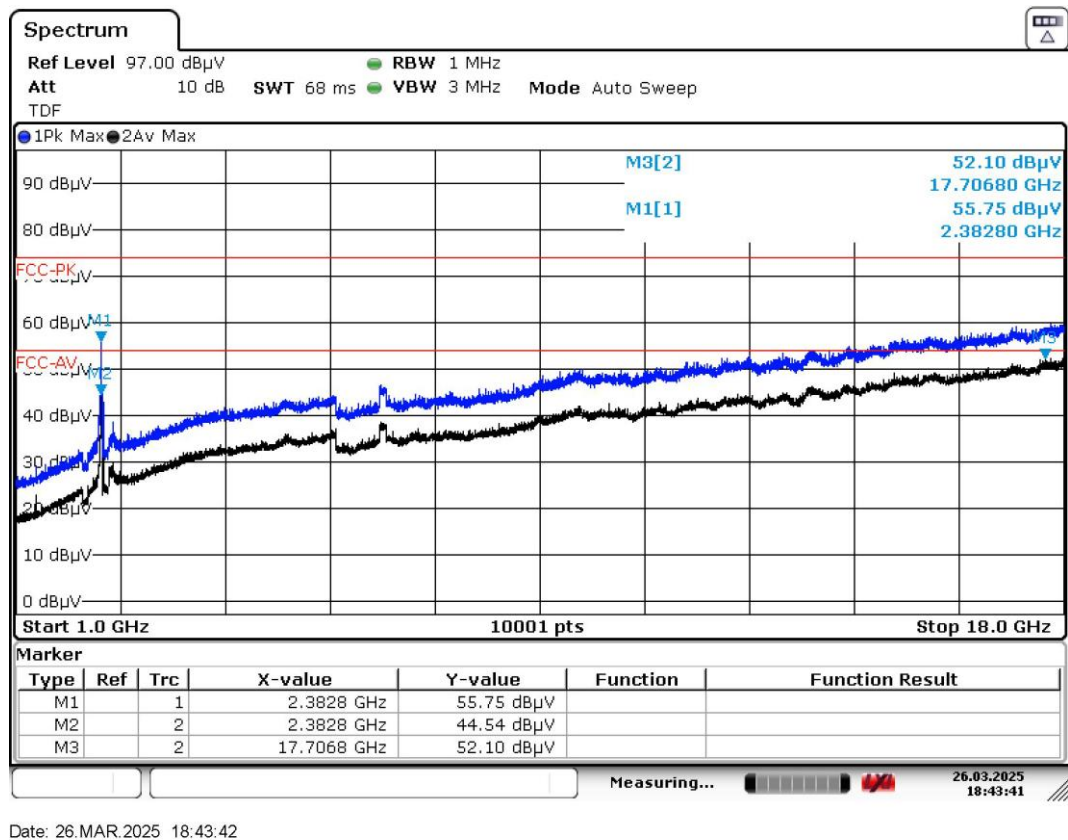
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2412 MHz, IEEE 802.11 g
Test voltage	3.3Vdc

Results

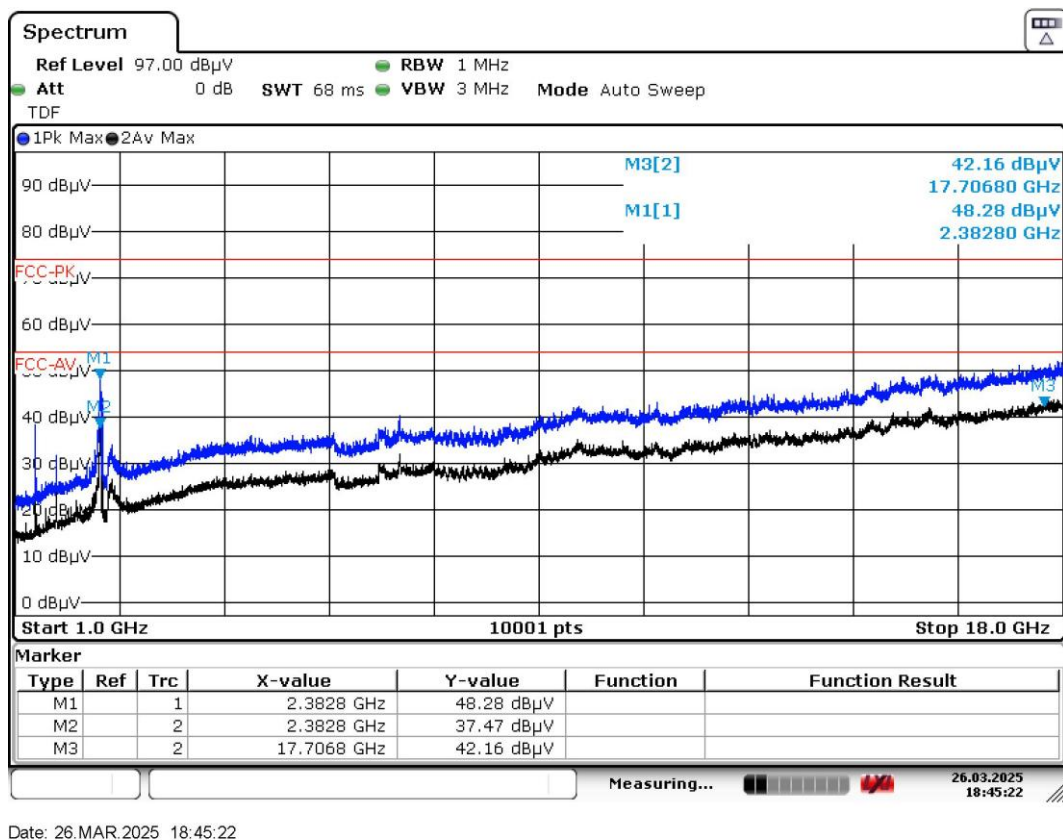
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



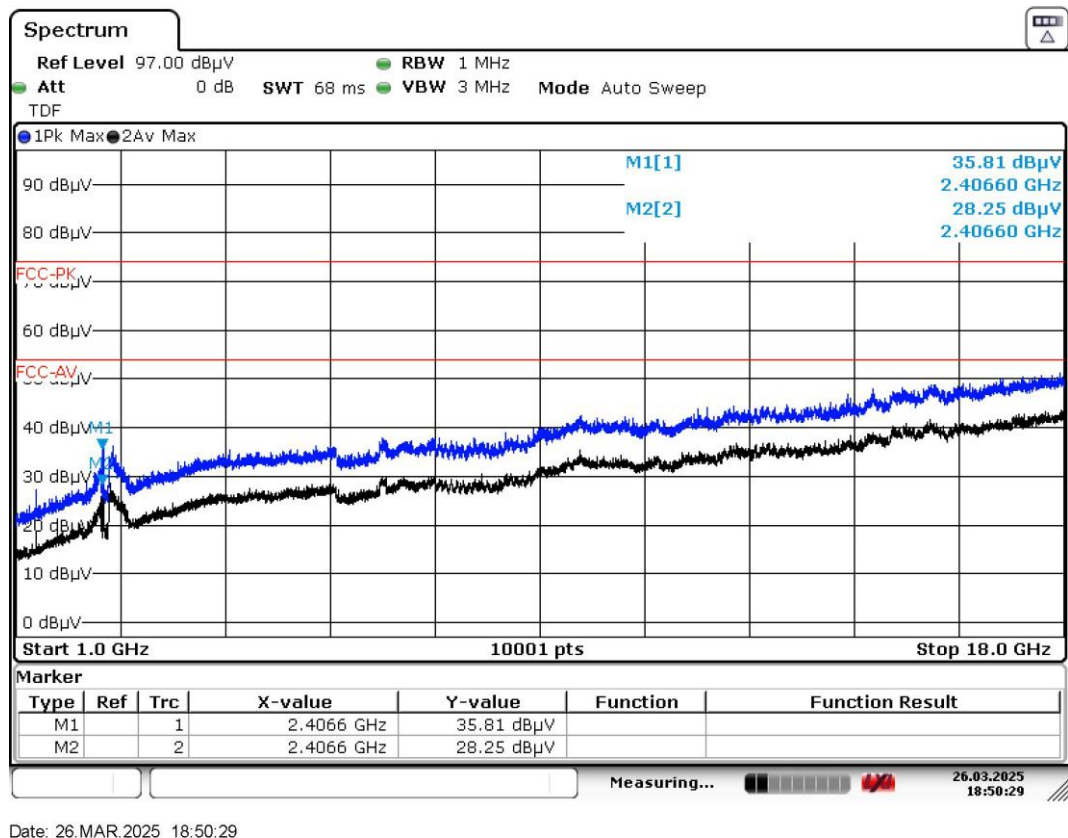
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2412 MHz, IEEE 802.11 n20
Test voltage	3.3Vdc

Results

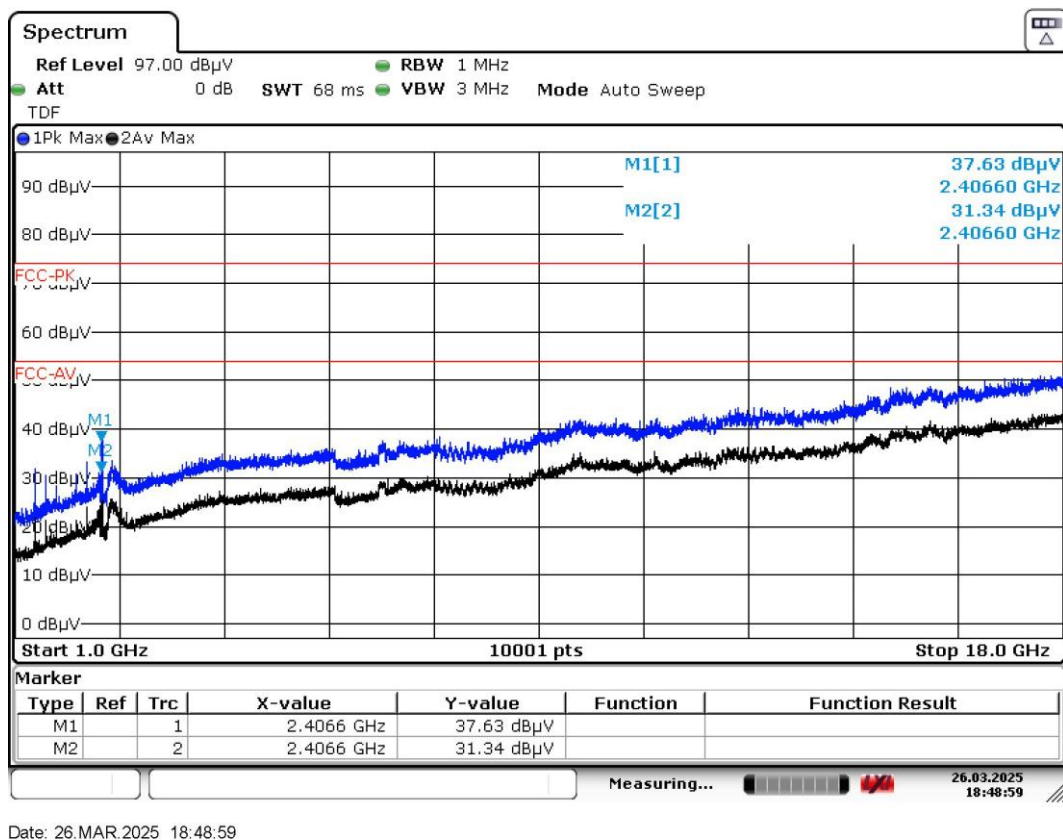
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



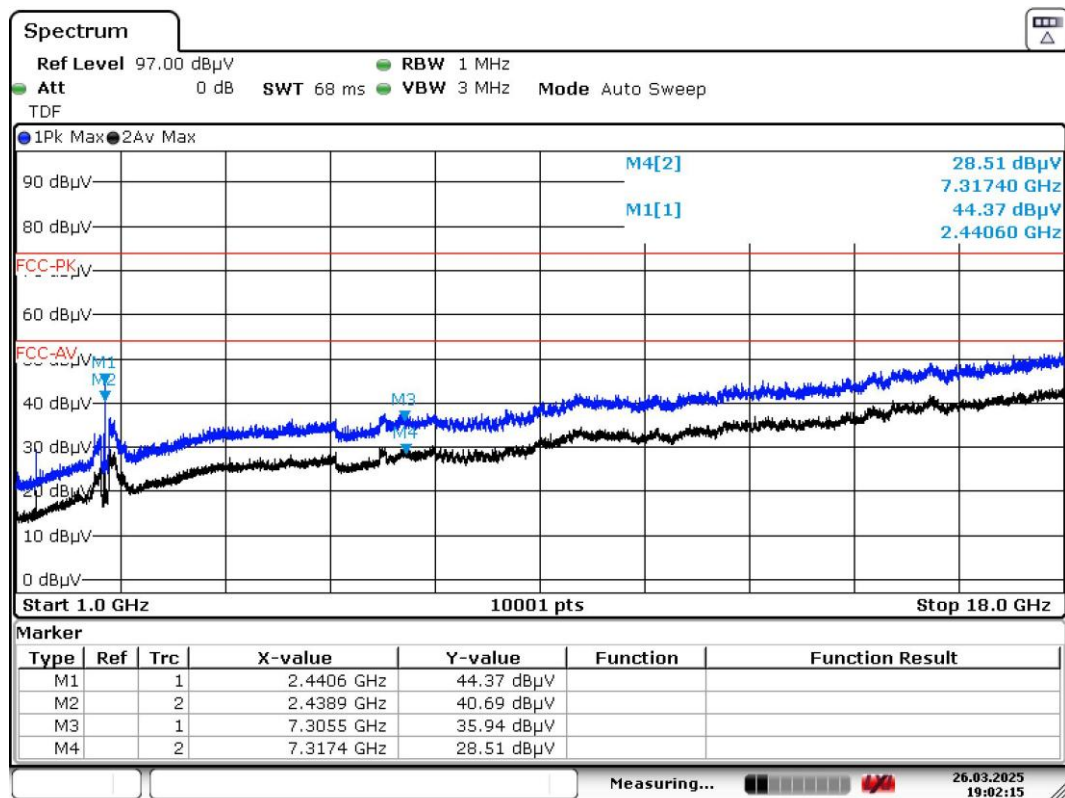
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2437 MHz, IEEE 802.11 b
Test voltage	3.3Vdc

Results

Horizontal

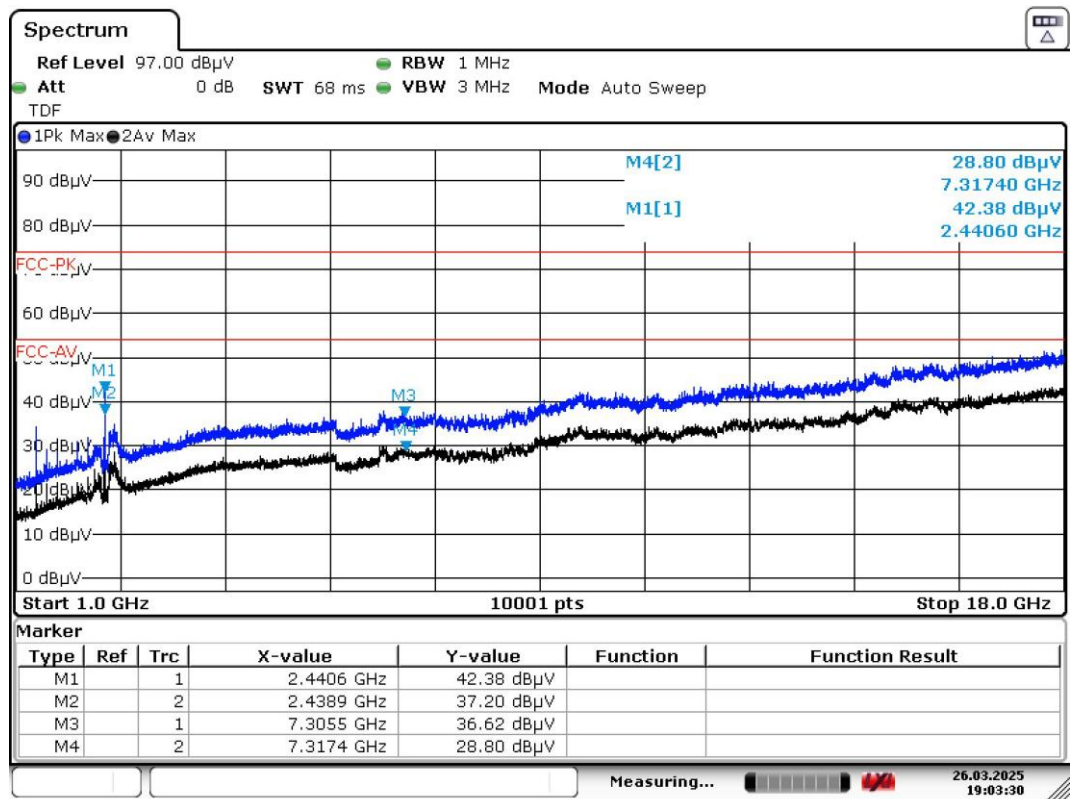


Date: 26.MAR.2025 19:02:15

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 19:03:30

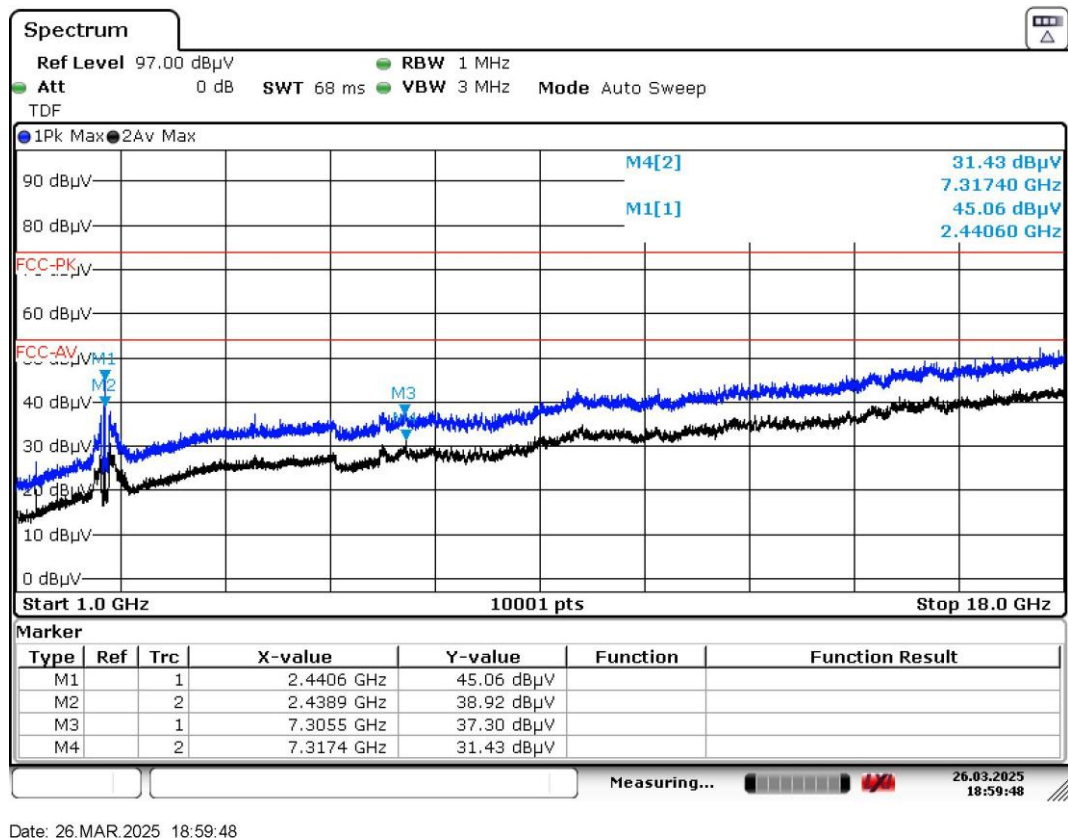
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2437 MHz, IEEE 802.11 g
Test voltage	3.3Vdc

Results

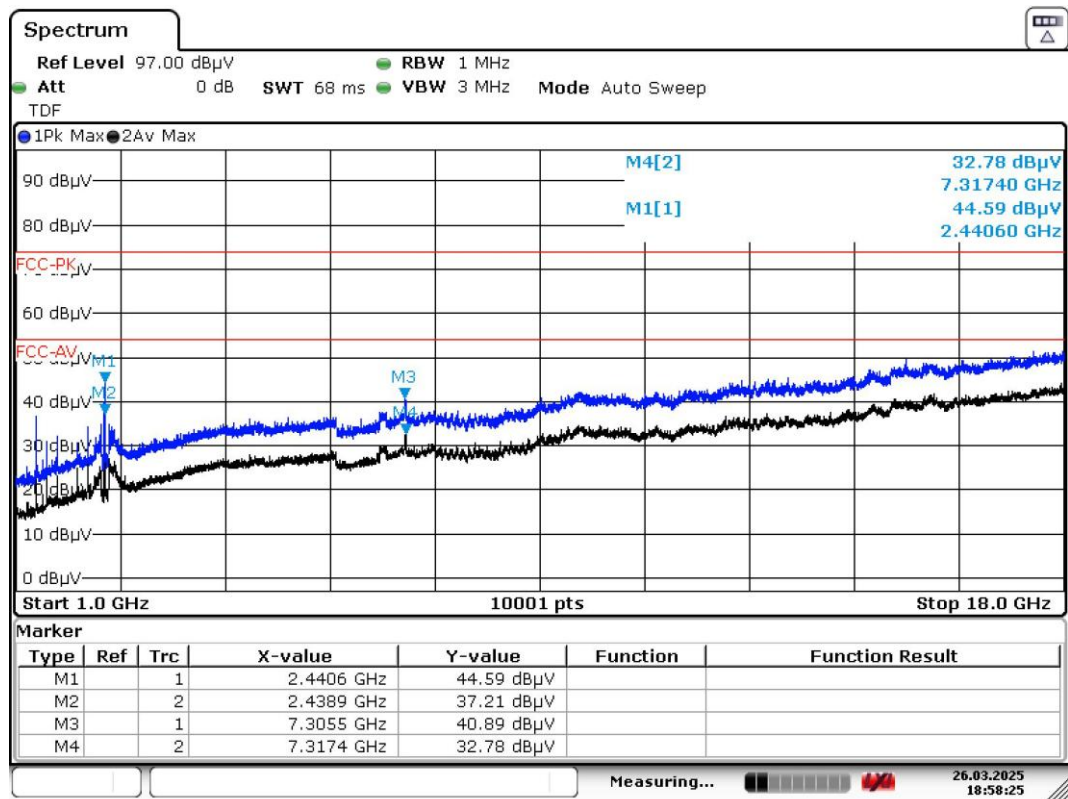
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 18:58:25

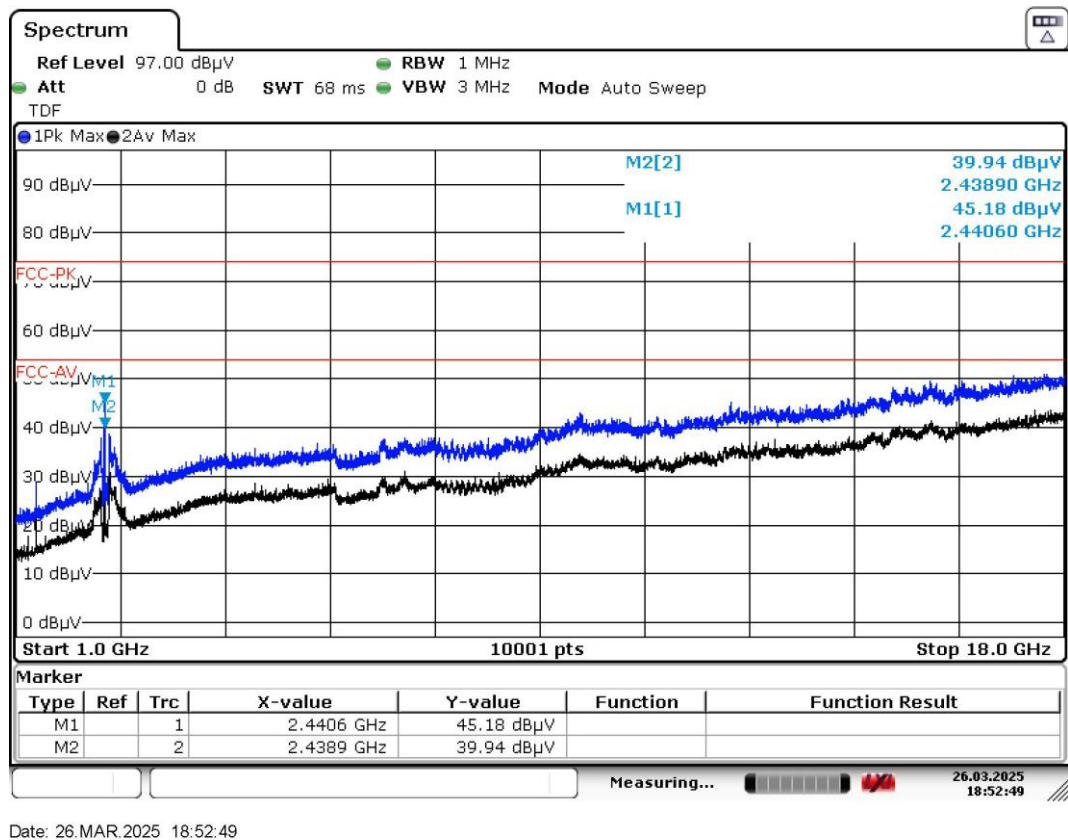
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2437 MHz, IEEE 802.11 n20
Test voltage	3.3Vdc

Results

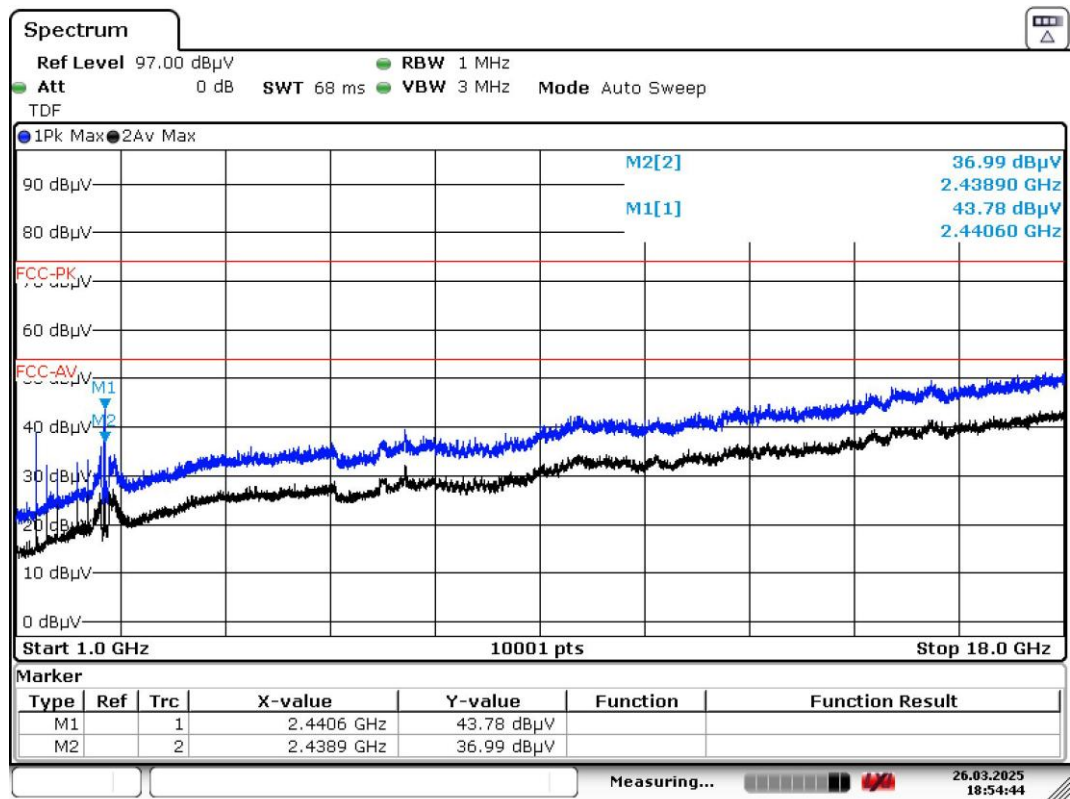
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 18:54:43

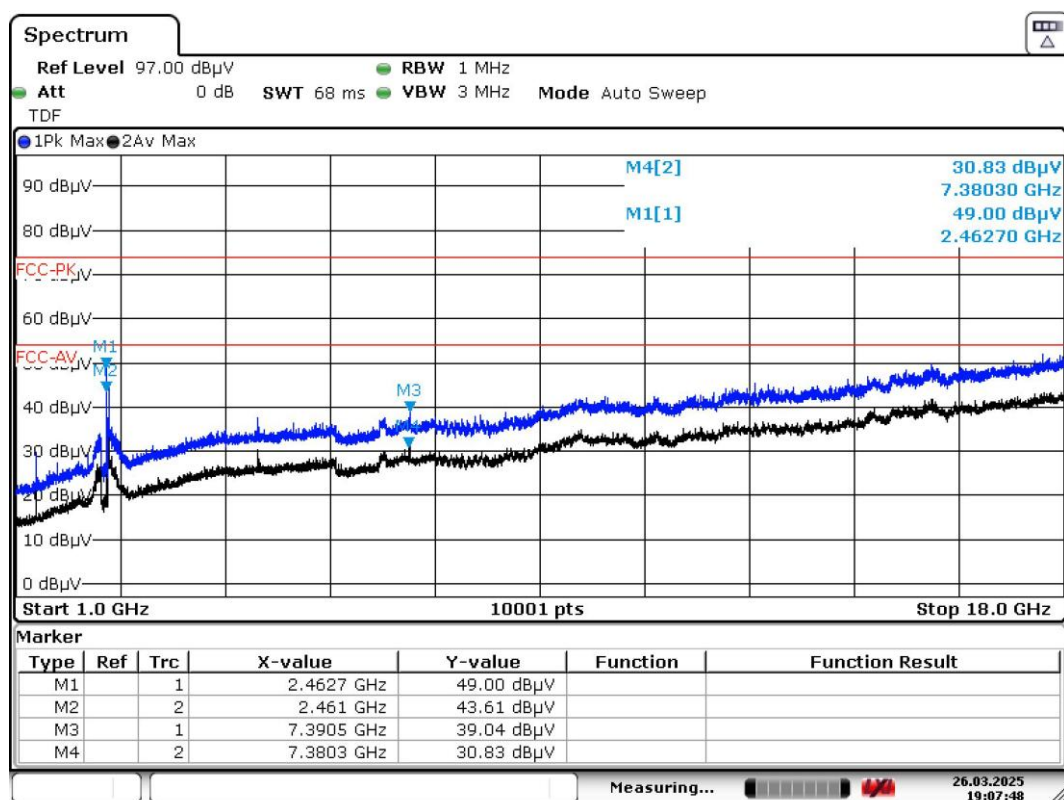
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2462 MHz, IEEE 802.11 b
Test voltage	3.3Vdc

Results

Horizontal

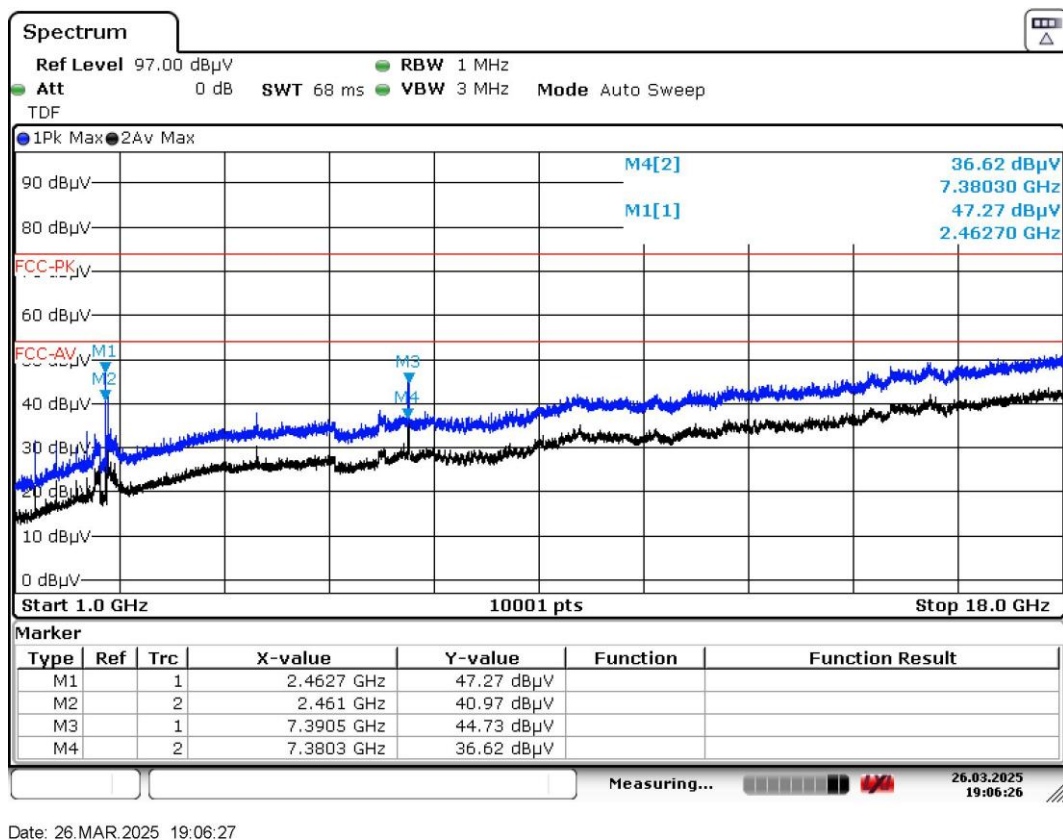


Date: 26.MAR.2025 19:07:48

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



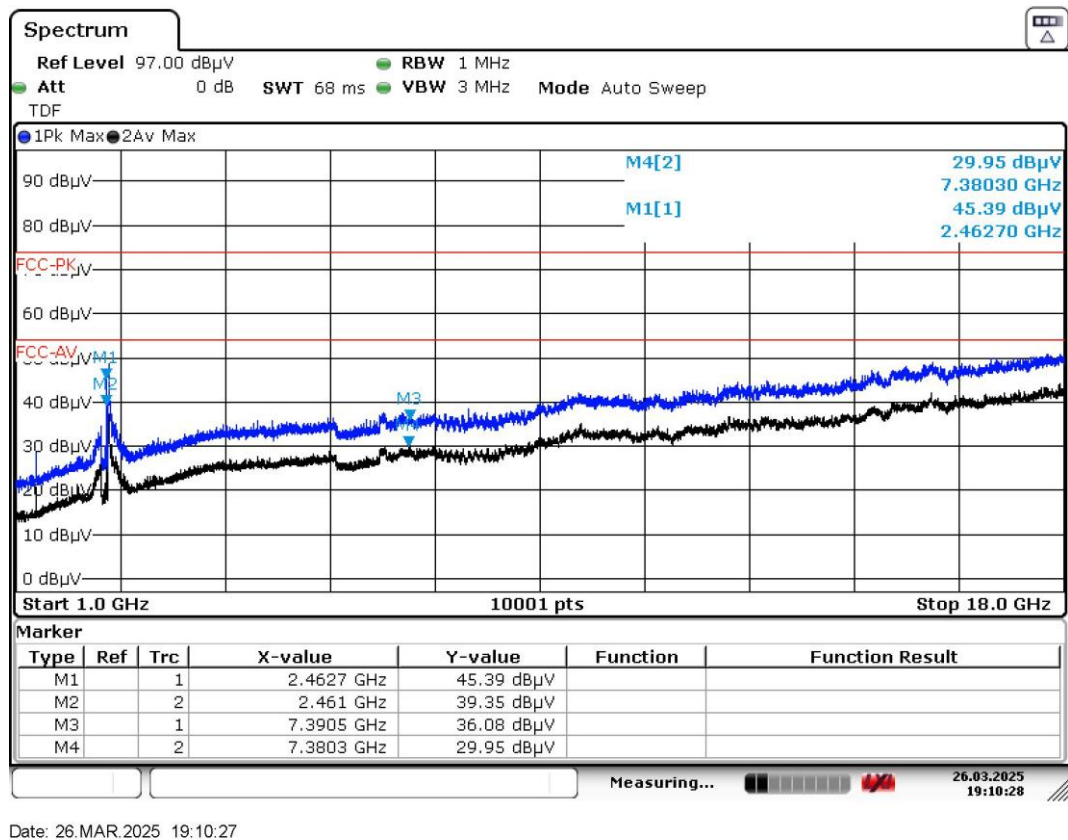
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2462 MHz, IEEE 802.11 g
Test voltage	3.3Vdc

Results

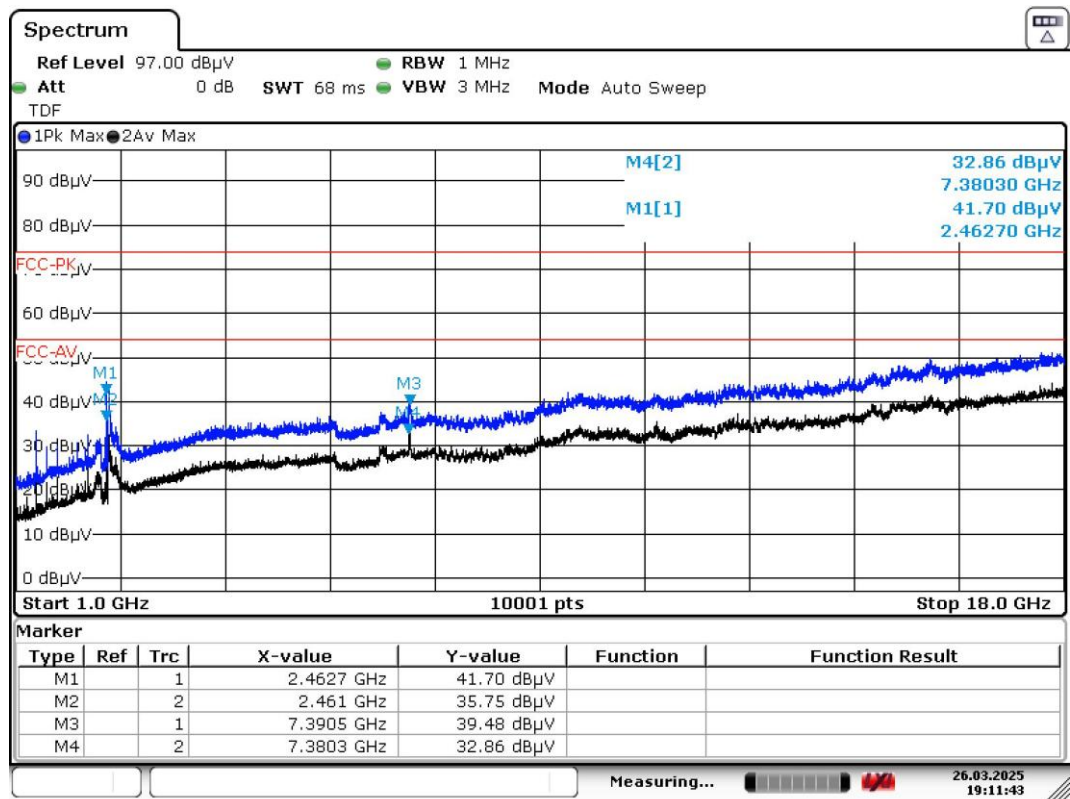
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 19:11:43

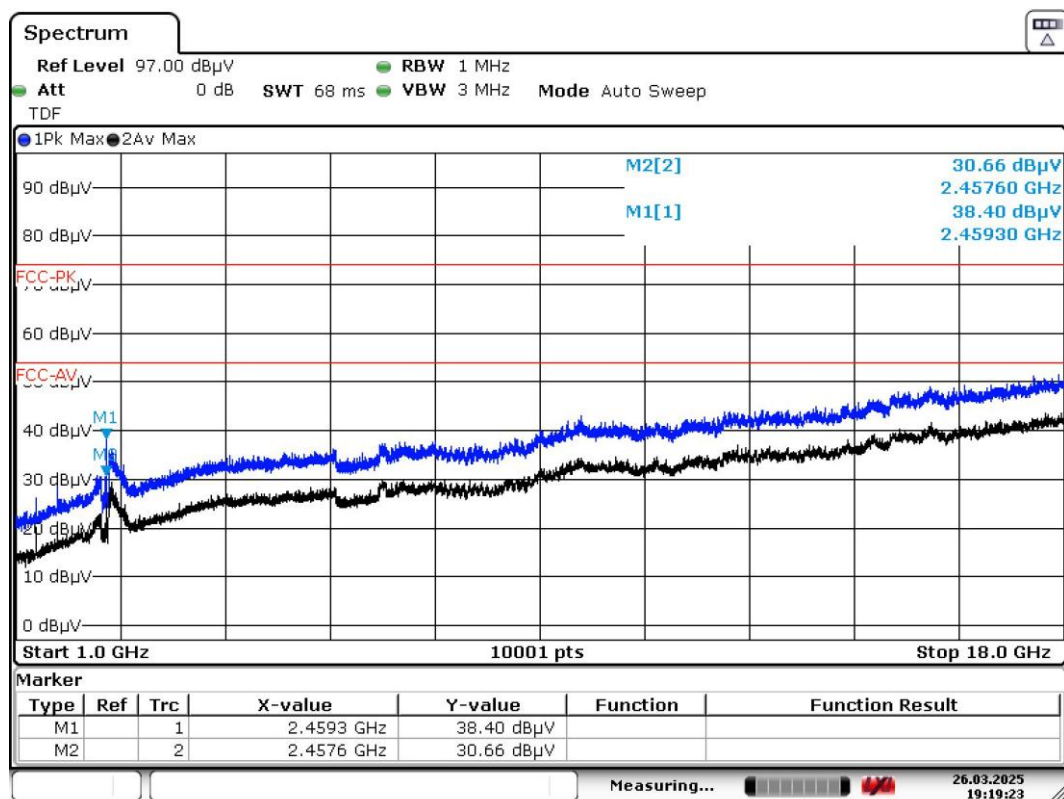
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2462 MHz, IEEE 802.11 n20
Test voltage	3.3Vdc

Results

Horizontal

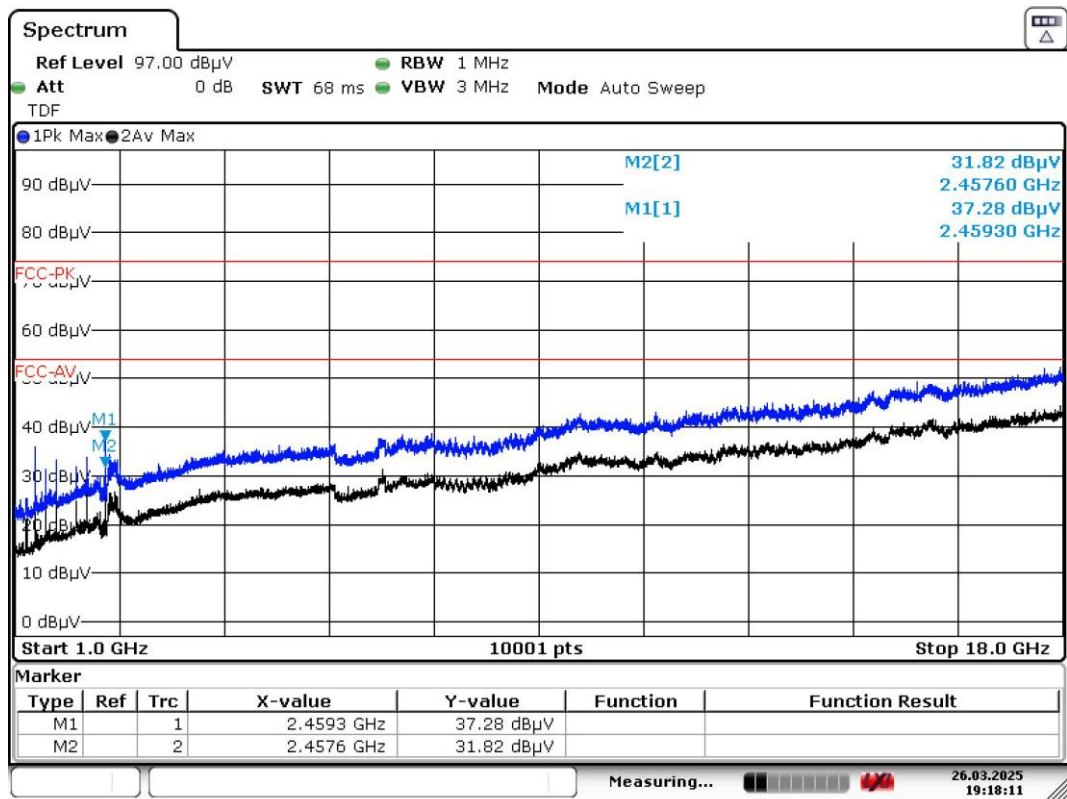


Date: 26.MAR.2025 19:19:23

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 19:18:11

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

4.3	Emissions in restricted frequency bands	VERDICT: PASS
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Restricted Bands of operation of FCC			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			
Restricted Bands of operation for IC			
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

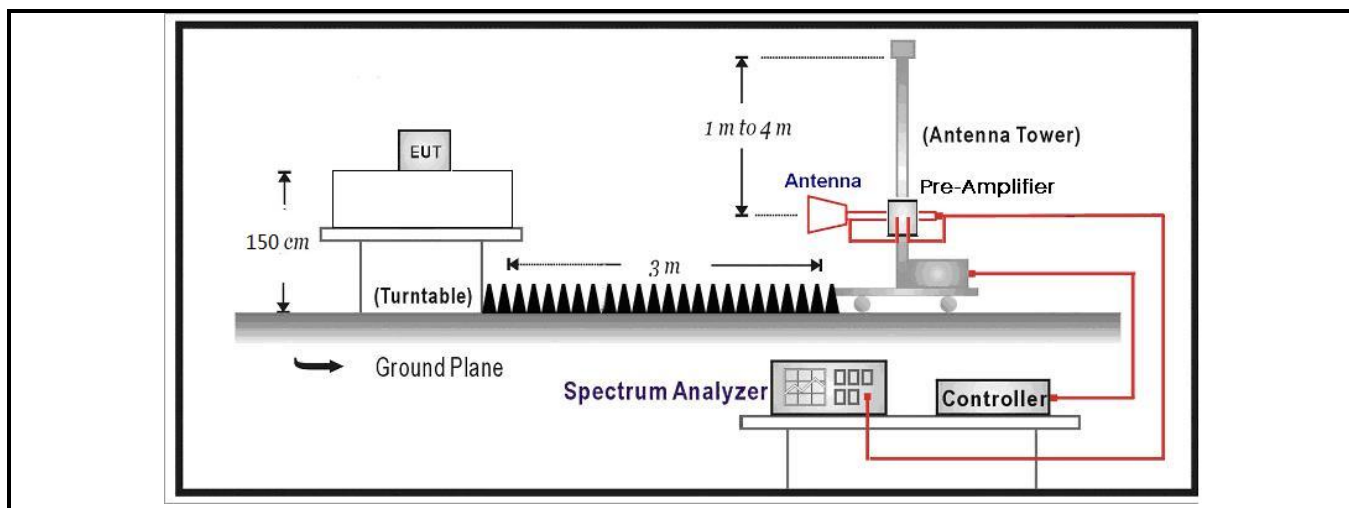
Restricted Band Emissions Limit

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Test Configuration



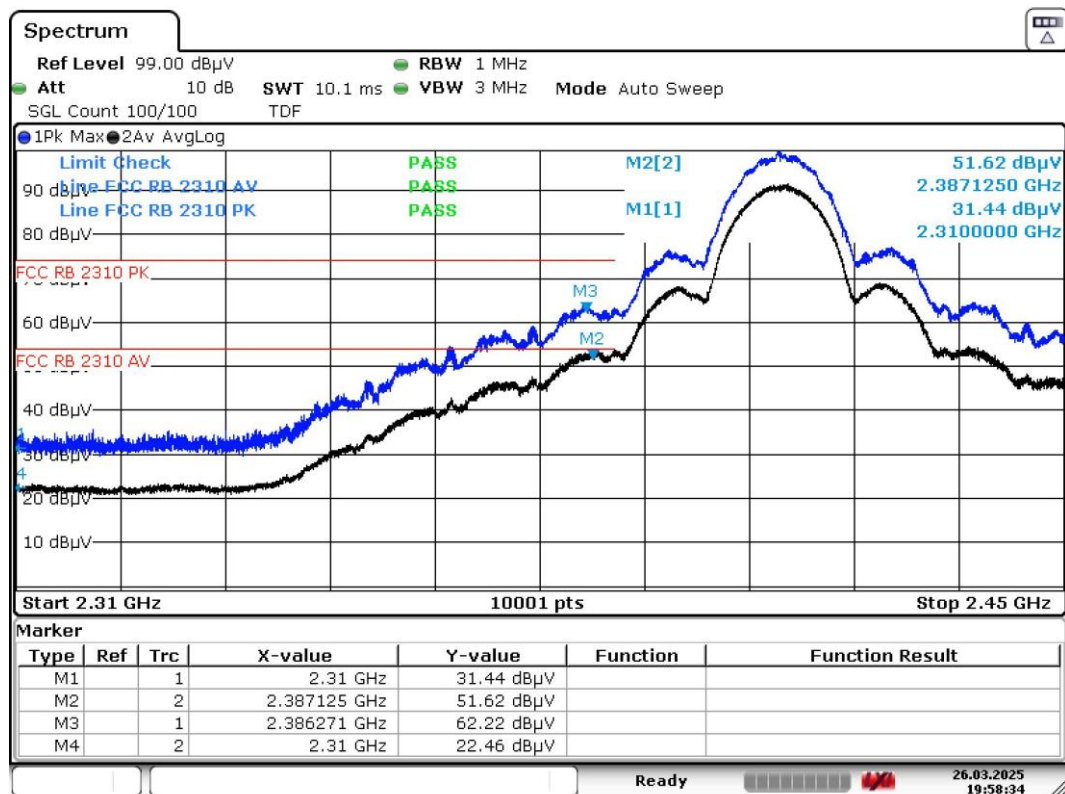
Performed measurements

Port under test	Enclosure port	
Test method applied	☐	Conducted measurement
	☒	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2412 MHz, IEEE 802.11 b
Test voltage	3.3Vdc

Results

Horizontal



Date: 26.MAR.2025 19:58:35

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Spectrum

Ref Level 99.00 dBμV RBW 1 MHz
 Att 10 dB SWT 10.1 ms VBW 3 MHz Mode Auto Sweep
 SGL Count 100/100 TDF

1Pk Max 2Av AvgLog

Limit Check PASS M2[2] 35.78 dBμV
 Line FCC RB 2310 AV PASS 2.3871250 GHz
 Line FCC RB 2310 PK PASS M1[1] 31.83 dBμV
 FCC RB 2310 PK 2.3100000 GHz
 FCC RB 2310 AV

Start 2.31 GHz 10001 pts Stop 2.45 GHz

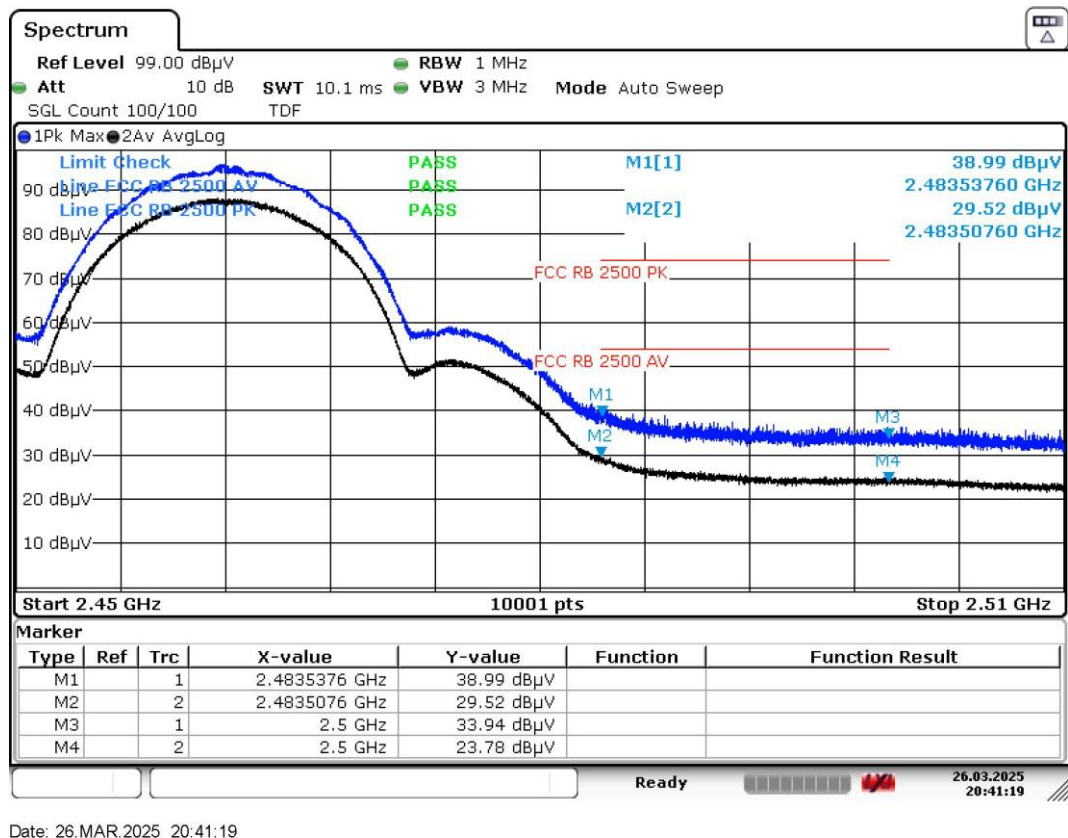
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.31 GHz	31.83 dBμV		
M2		2	2.387125 GHz	35.78 dBμV		
M3		1	2.386271 GHz	44.52 dBμV		
M4		2	2.31 GHz	22.15 dBμV		

Ready 26.03.2025 20:06:11

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2462 MHz, IEEE 802.11 b
Test voltage	3.3Vdc

Results

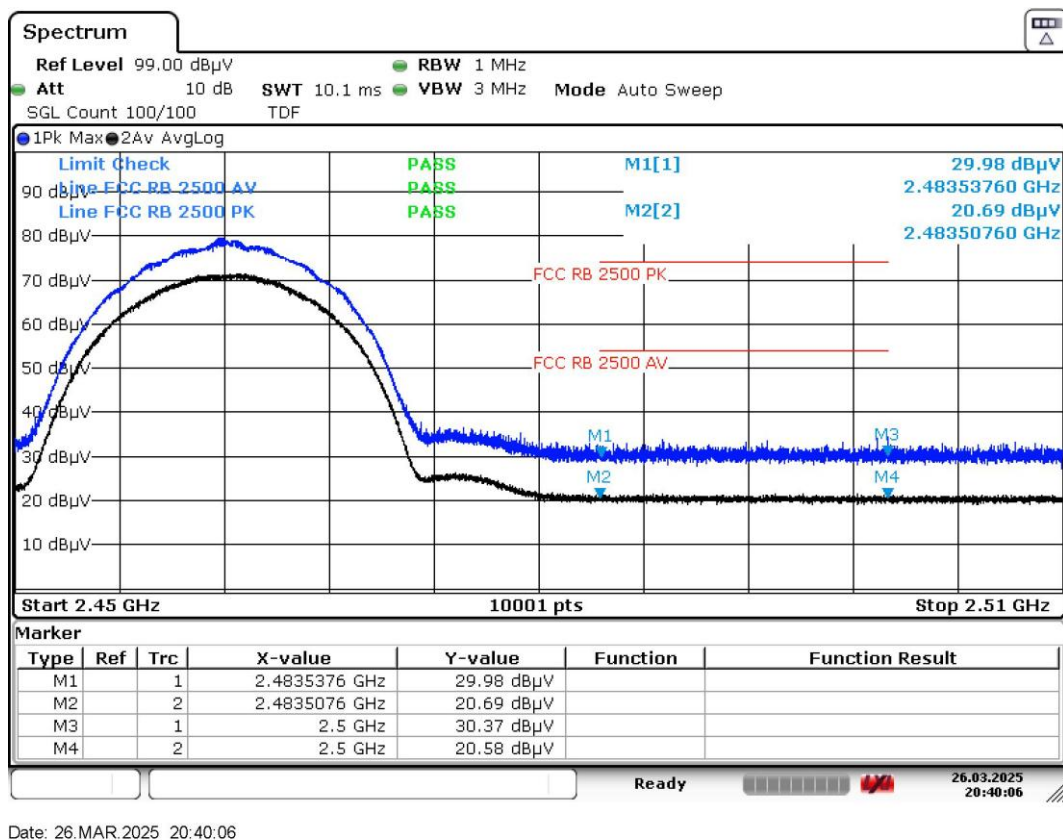
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



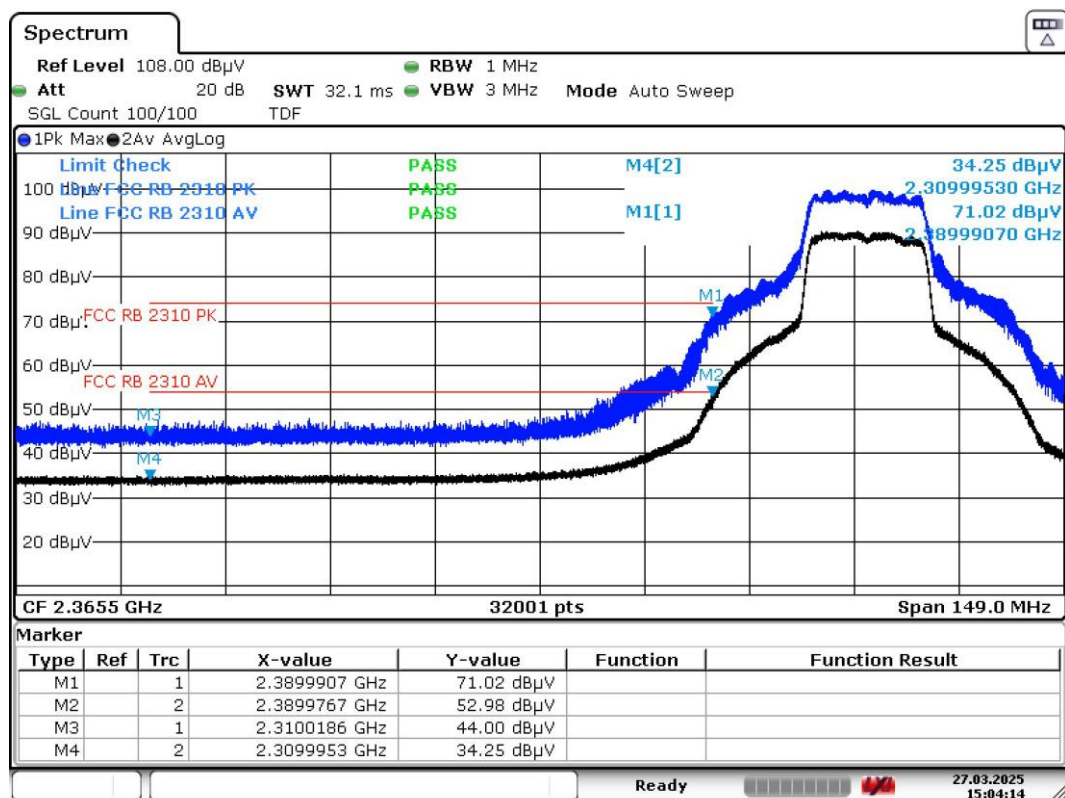
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2412 MHz, IEEE 802.11 g
Test voltage	3.3Vdc

Results

Horizontal

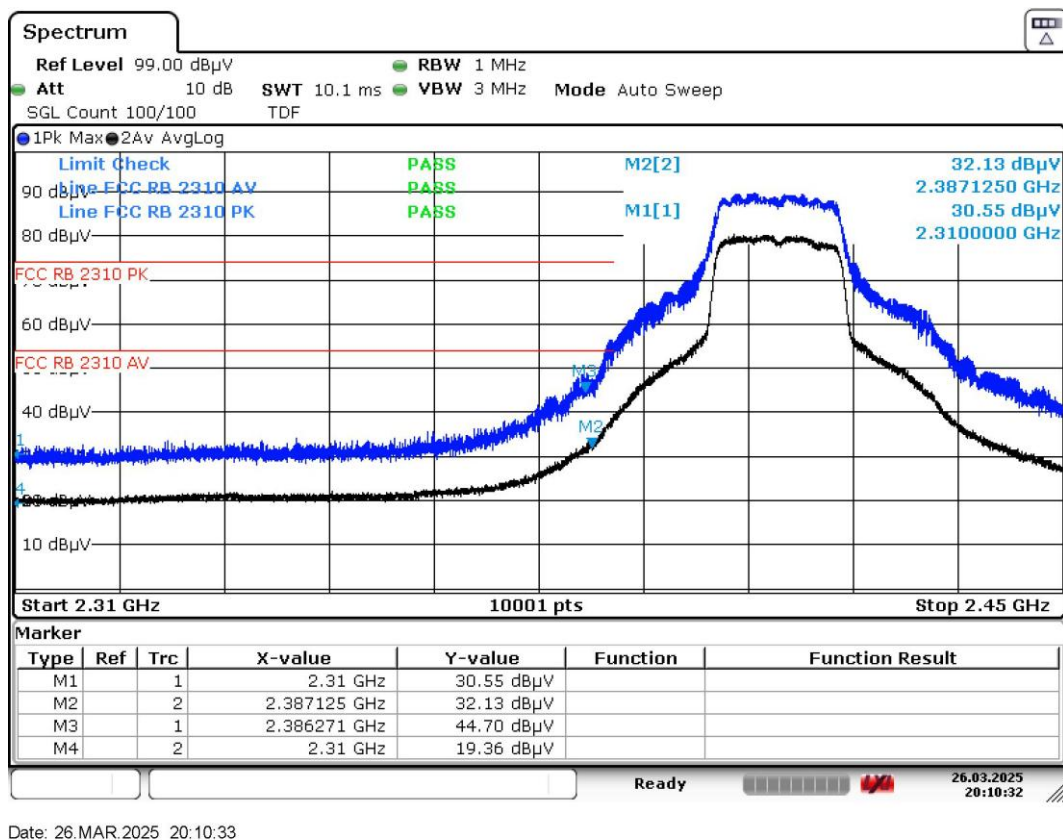


Date: 27.MAR.2025 15:04:14

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



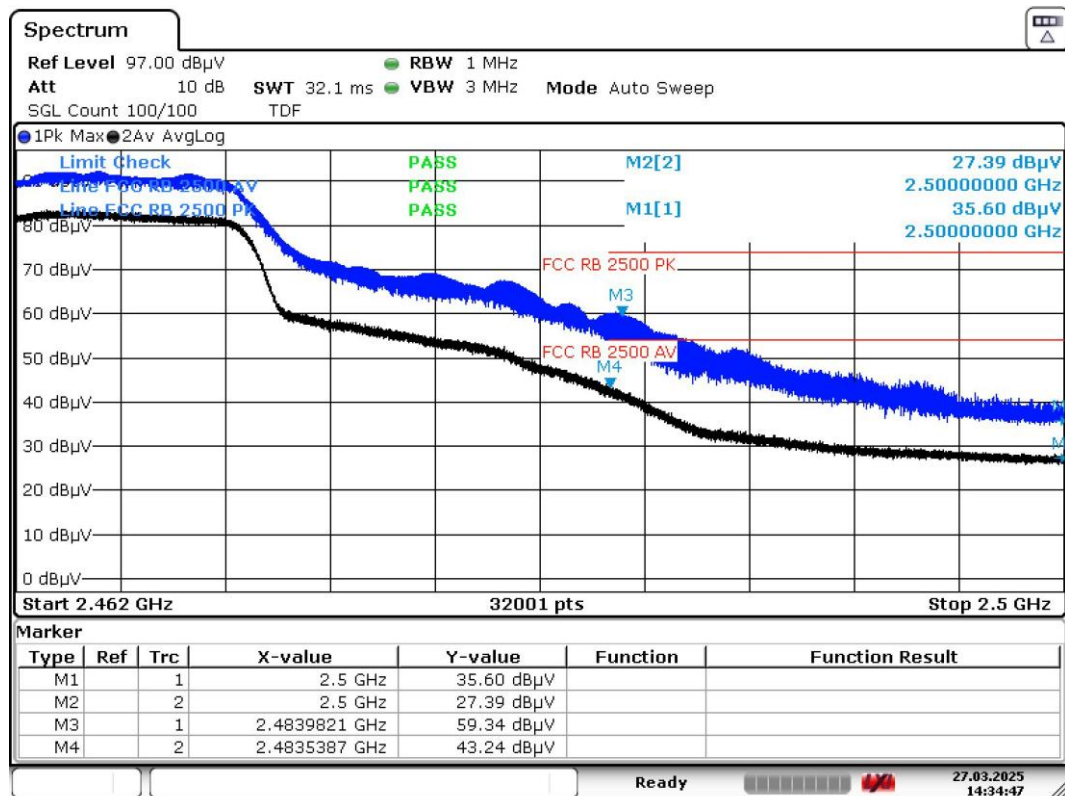
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2462 MHz, IEEE 802.11 g
Test voltage	3.3Vdc

Results

Horizontal

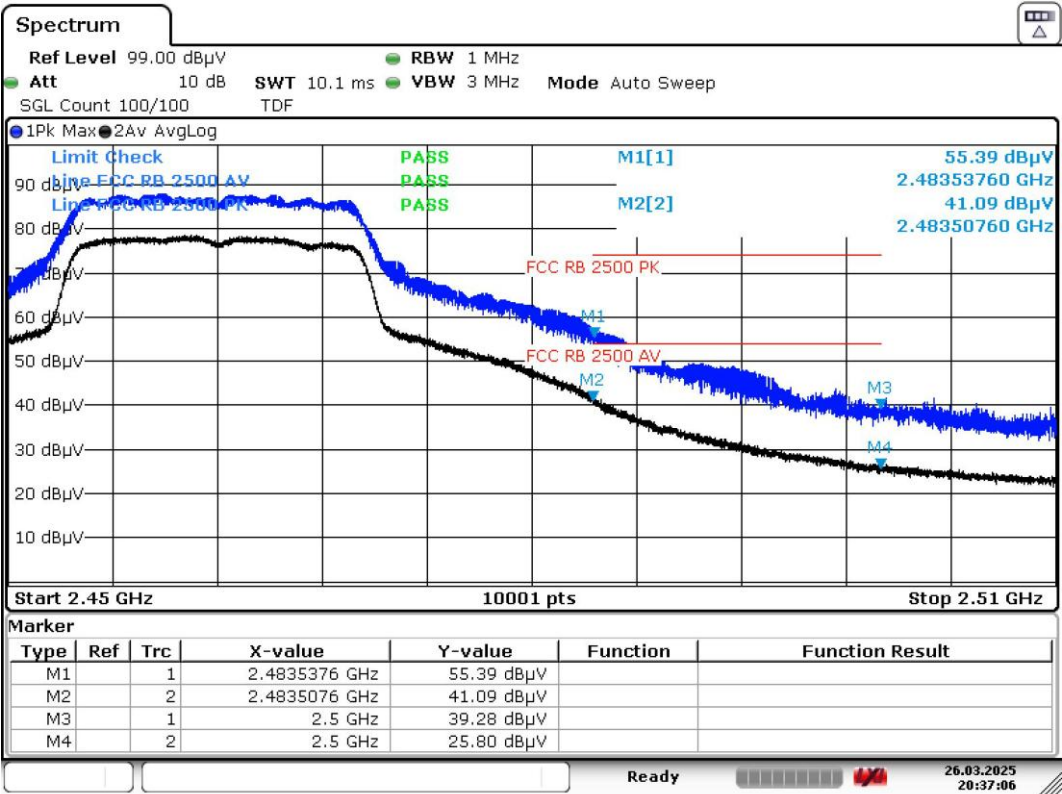


Date: 27.MAR.2025 14:34:46

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 20:37:07

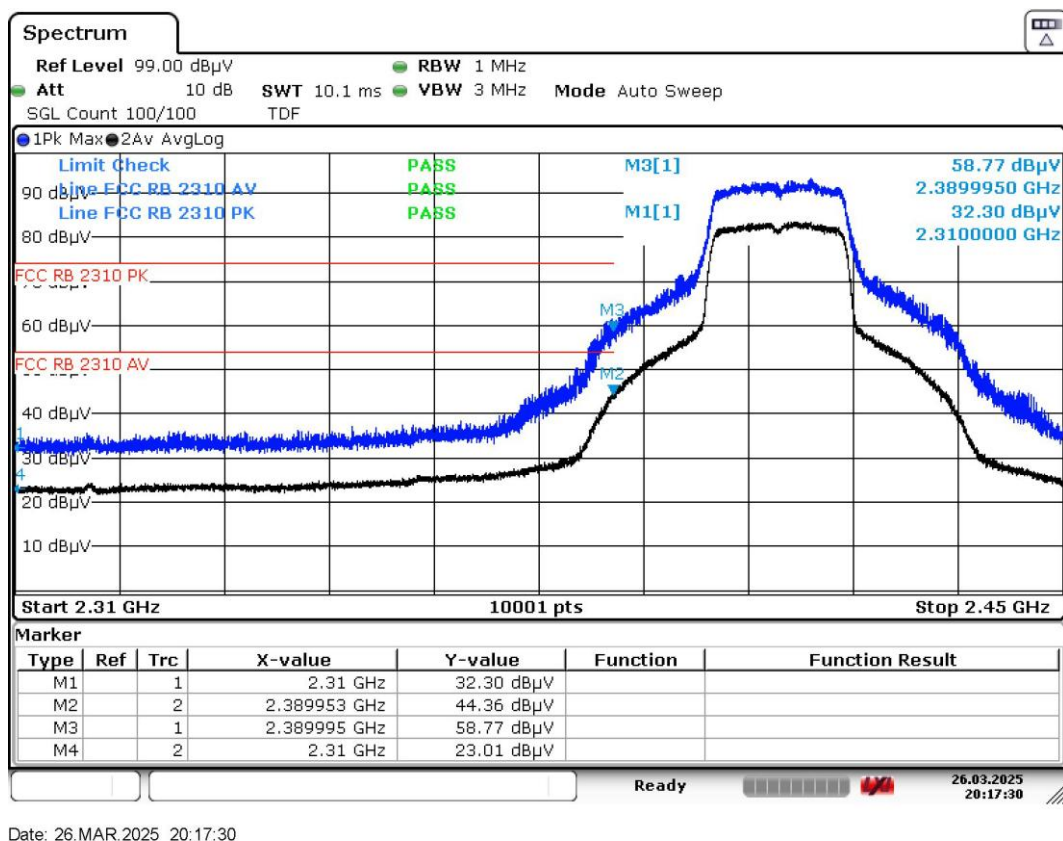
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2412 MHz, IEEE 802.11 n20
Test voltage	3.3Vdc

Results

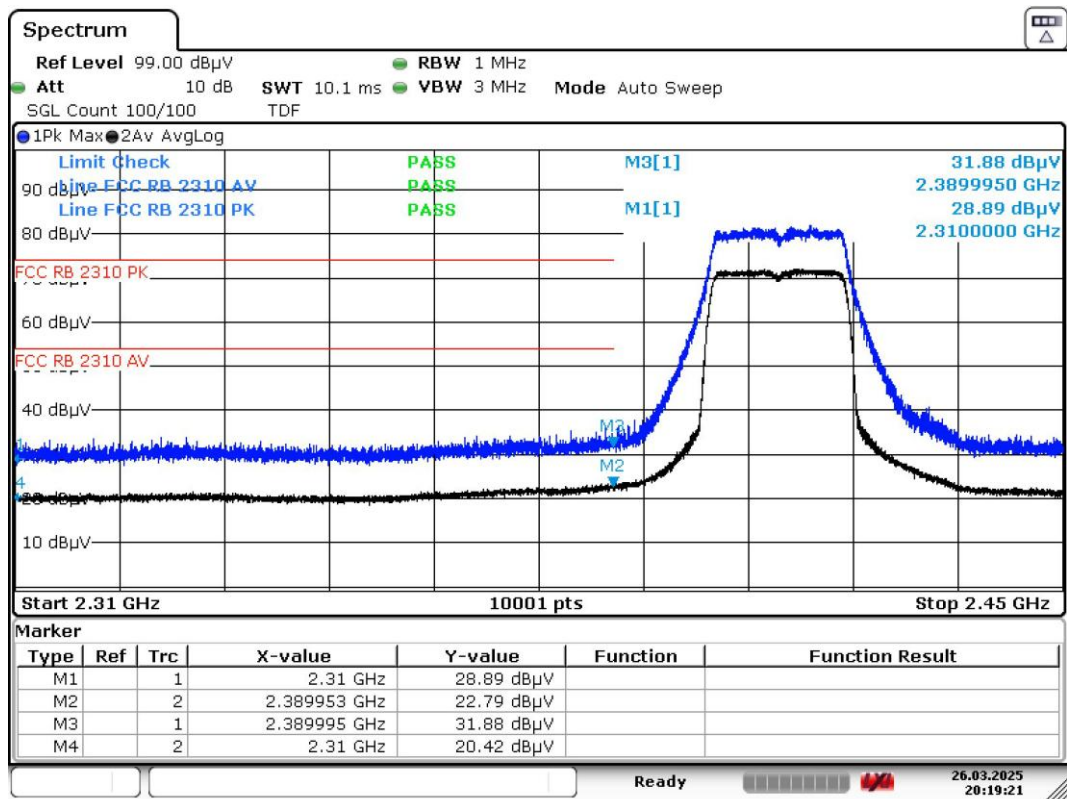
Horizontal



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 20:19:20

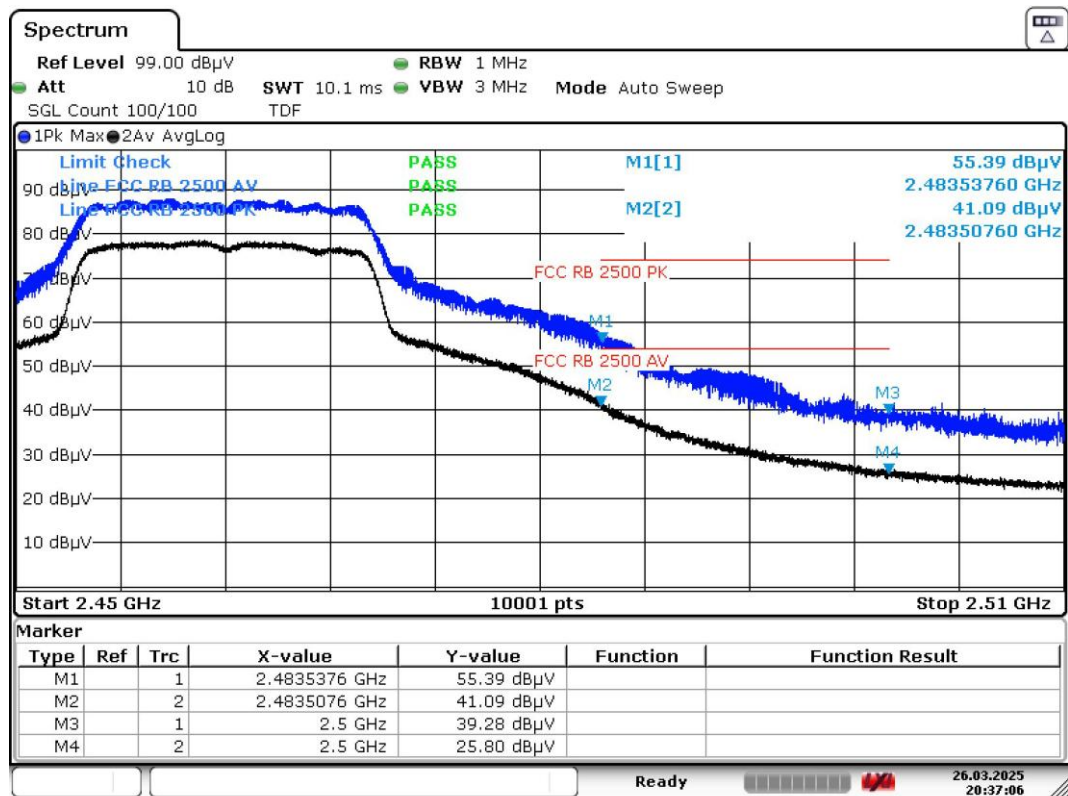
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	JXC8720-18
Operation Mode (worst case)	Mode 1 @2462 MHz, IEEE 802.11 n20
Test voltage	3.3Vdc

Results

Horizontal

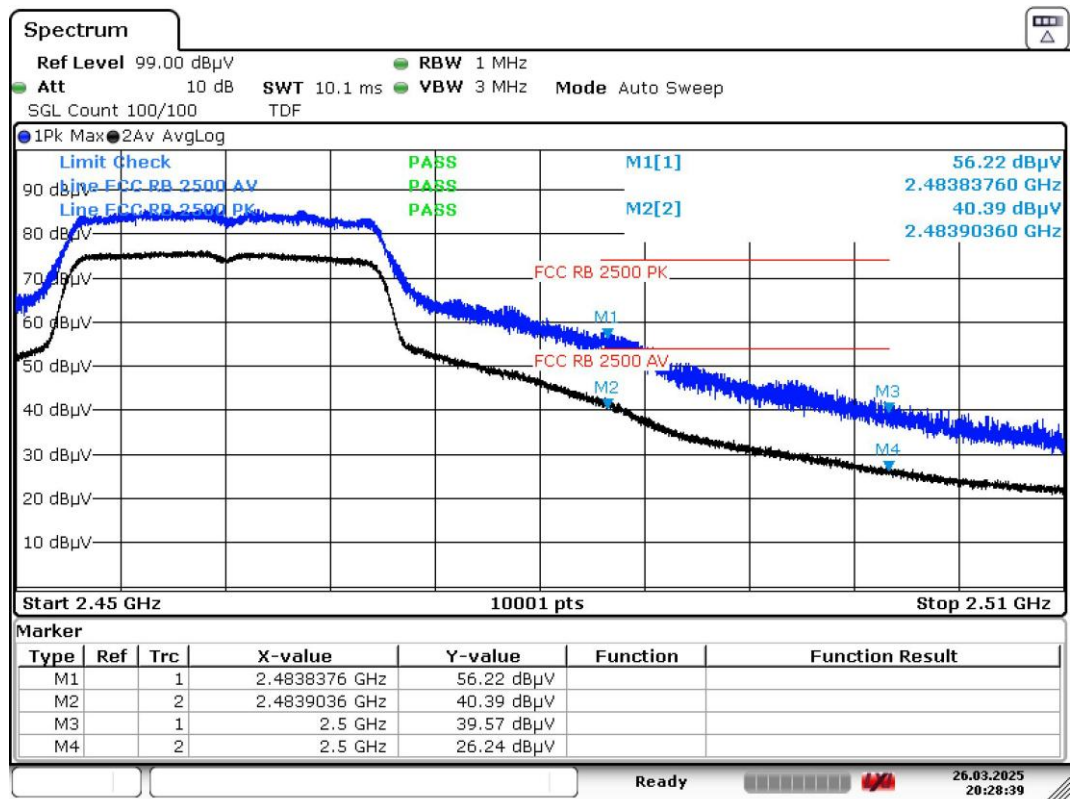


Date: 26.MAR.2025 20:37:07

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Date: 26.MAR.2025 20:28:40

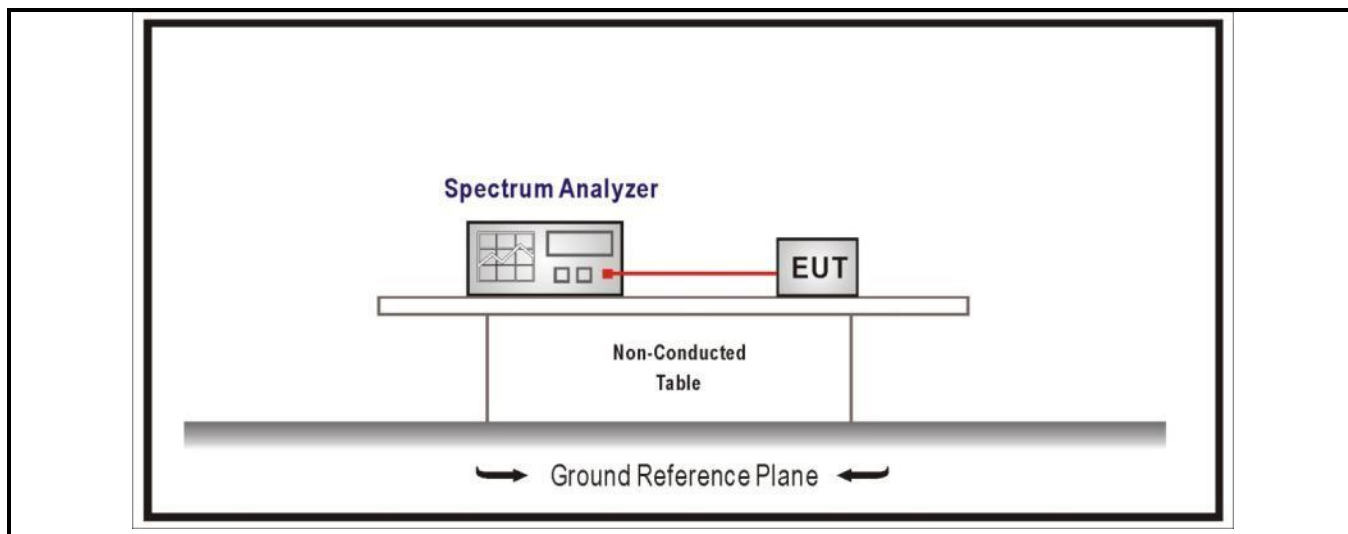
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

4.4 Band Edge	VERDICT: PASS
----------------------	----------------------

Standard	FCC Part 15 Subpart C Paragraph 15.247(d)	
	RSS-Gen Issue 5 Section 8.10	
RF Output power (Detection methods)	Limit(dB)	
RF Output power(Average detector)	30dBc(Note1)	
RF Output power(PK detector)	20dBc(Note2)	
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by LEast 30 dB relative to the maximum in-band peak PSD by LLevel in 100 kHz (i.e., 30 dBc).		
Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by least 20 dB relative to the maximum in-band peak PSD by level in 100 kHz (i.e., 20 dBc).		

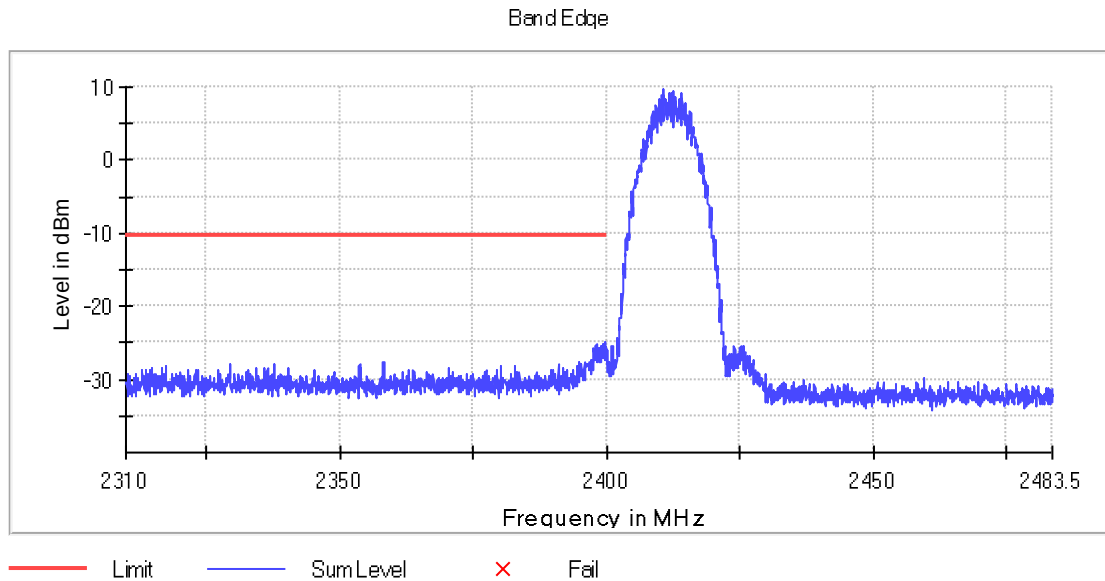
Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

IEEE 802.11 b Results @2412 MHz



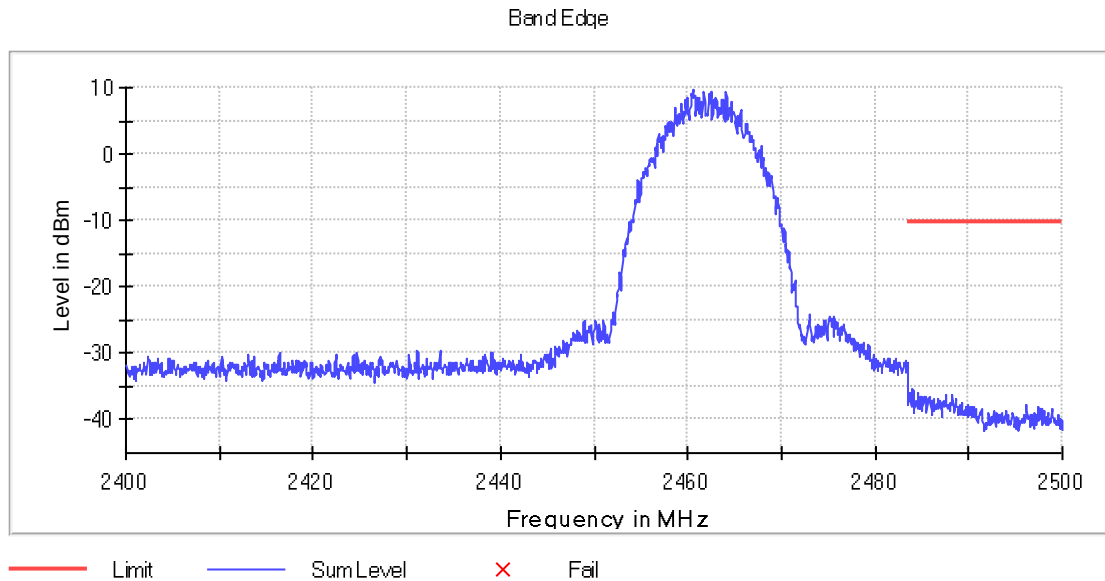
Inband Peak

Frequency (MHz)	Level (dBm)
2412.0000	9.7

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.725000	-24.9	14.6	-10.3	PASS
2399.475000	-25.2	14.9	-10.3	PASS
2398.075000	-25.2	14.9	-10.3	PASS
2398.025000	-25.3	15.0	-10.3	PASS
2398.975000	-25.4	15.1	-10.3	PASS
2399.925000	-25.5	15.2	-10.3	PASS
2398.925000	-25.5	15.2	-10.3	PASS
2399.775000	-25.7	15.4	-10.3	PASS
2398.525000	-25.7	15.4	-10.3	PASS
2397.675000	-25.7	15.4	-10.3	PASS
2399.975000	-25.9	15.6	-10.3	PASS
2399.425000	-25.9	15.6	-10.3	PASS
2398.575000	-26.0	15.7	-10.3	PASS
2399.625000	-26.0	15.7	-10.3	PASS
2398.125000	-26.0	15.7	-10.3	PASS

IEEE 802.11 b Results @2462 MHz



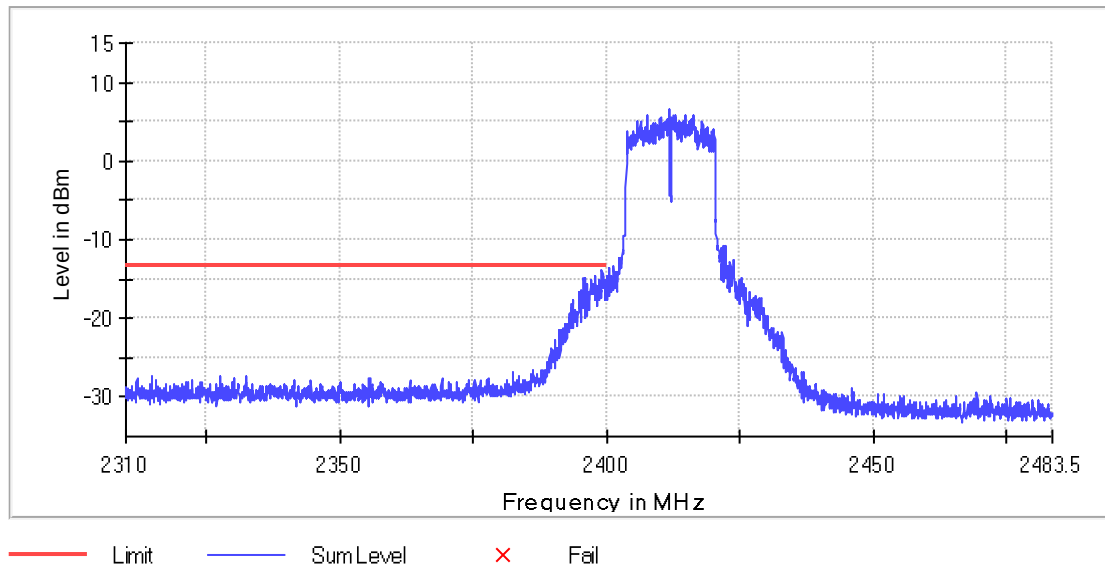
Inband Peak

Frequency (MHz)	Level (dBm)
2462.0000	9.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.025000	-35.2	25.0	-10.2	PASS
2484.075000	-35.5	25.3	-10.2	PASS
2483.975000	-35.9	25.7	-10.2	PASS
2484.625000	-35.9	25.7	-10.2	PASS
2484.575000	-36.0	25.8	-10.2	PASS
2483.725000	-36.0	25.8	-10.2	PASS
2483.675000	-36.2	26.0	-10.2	PASS
2487.625000	-36.2	26.0	-10.2	PASS
2487.575000	-36.3	26.1	-10.2	PASS
2488.275000	-36.3	26.2	-10.2	PASS
2484.925000	-36.4	26.2	-10.2	PASS
2485.275000	-36.4	26.3	-10.2	PASS
2485.375000	-36.5	26.3	-10.2	PASS
2484.875000	-36.5	26.3	-10.2	PASS
2488.325000	-36.6	26.4	-10.2	PASS

IEEE 802.11 g Results @2412 MHz



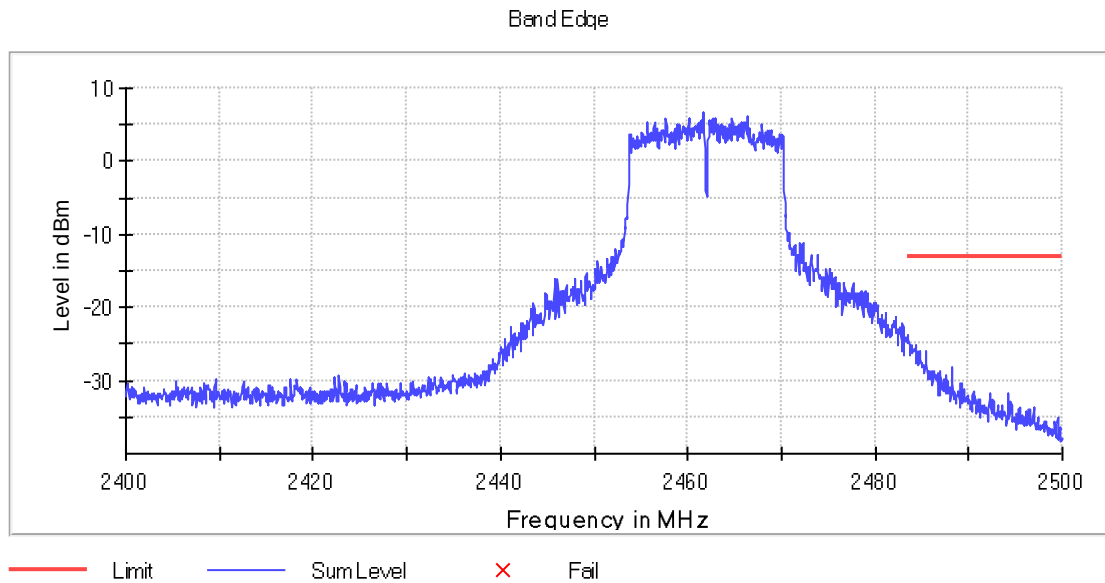
Inband Peak

Frequency (MHz)	Level (dBm)
2412.0000	6.7

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.175000	-13.9	0.6	-13.3	PASS
2399.225000	-14.3	0.9	-13.3	PASS
2397.925000	-14.5	1.1	-13.3	PASS
2397.975000	-14.5	1.2	-13.3	PASS
2399.475000	-14.7	1.3	-13.3	PASS
2396.075000	-14.8	1.5	-13.3	PASS
2395.775000	-14.9	1.6	-13.3	PASS
2399.125000	-14.9	1.6	-13.3	PASS
2397.025000	-15.0	1.7	-13.3	PASS
2399.375000	-15.1	1.7	-13.3	PASS
2398.625000	-15.1	1.8	-13.3	PASS
2396.125000	-15.1	1.8	-13.3	PASS
2398.575000	-15.1	1.8	-13.3	PASS
2398.525000	-15.2	1.8	-13.3	PASS
2399.775000	-15.2	1.8	-13.3	PASS

IEEE 802.11 g Results @2462 MHz



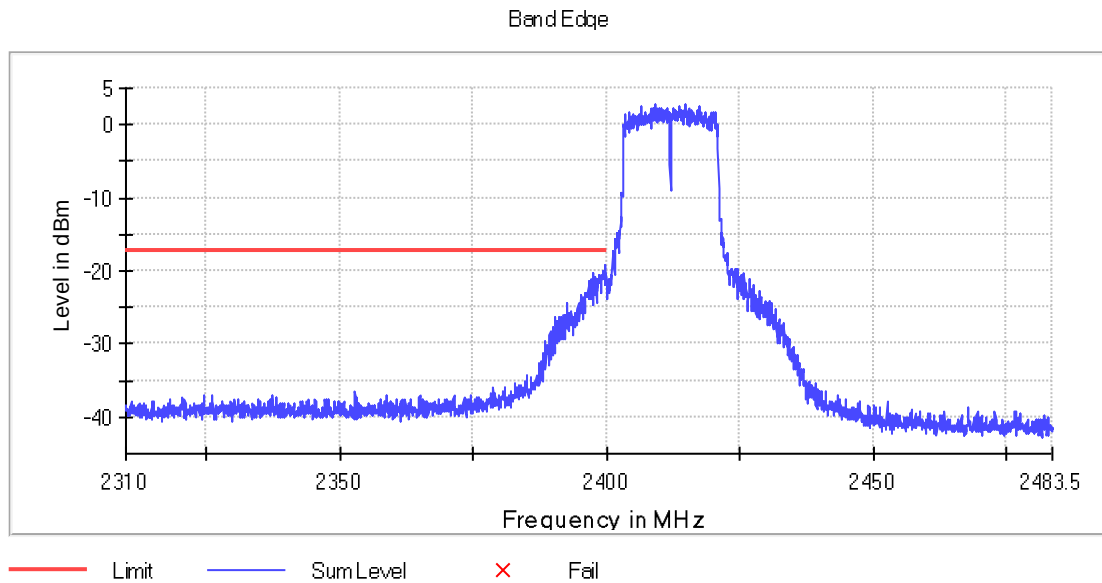
Inband Peak

Frequency (MHz)	Level (dBm)
2462.0000	6.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.575000	-24.4	11.2	-13.2	PASS
2483.525000	-24.5	11.3	-13.2	PASS
2483.875000	-25.0	11.8	-13.2	PASS
2483.825000	-25.1	11.9	-13.2	PASS
2484.325000	-25.1	11.9	-13.2	PASS
2483.625000	-25.3	12.1	-13.2	PASS
2484.275000	-25.3	12.2	-13.2	PASS
2484.125000	-25.6	12.4	-13.2	PASS
2483.925000	-25.7	12.5	-13.2	PASS
2484.075000	-25.8	12.6	-13.2	PASS
2484.175000	-25.8	12.6	-13.2	PASS
2483.775000	-25.9	12.7	-13.2	PASS
2485.475000	-26.0	12.8	-13.2	PASS
2484.825000	-26.0	12.8	-13.2	PASS
2484.575000	-26.1	12.9	-13.2	PASS

IEEE 802.11 n20 Results @2412 MHz



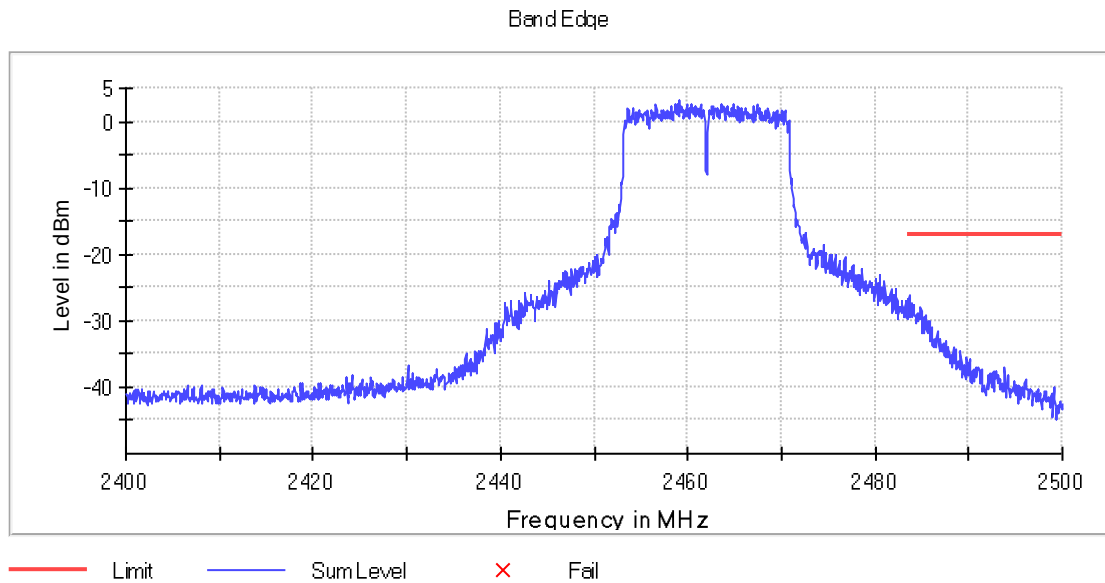
Inband Peak

Frequency (MHz)	Level (dBm)
2412.0000	2.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.875000	-19.3	2.1	-17.2	PASS
2399.825000	-19.4	2.3	-17.2	PASS
2399.925000	-20.1	2.9	-17.2	PASS
2399.275000	-20.1	3.0	-17.2	PASS
2399.225000	-20.2	3.1	-17.2	PASS
2397.575000	-20.3	3.1	-17.2	PASS
2397.625000	-20.3	3.1	-17.2	PASS
2399.375000	-20.4	3.3	-17.2	PASS
2399.425000	-20.6	3.4	-17.2	PASS
2398.825000	-20.6	3.5	-17.2	PASS
2399.475000	-20.7	3.5	-17.2	PASS
2398.525000	-20.7	3.5	-17.2	PASS
2398.875000	-20.7	3.5	-17.2	PASS
2397.975000	-20.8	3.6	-17.2	PASS
2398.475000	-20.8	3.6	-17.2	PASS

IEEE 802.11 n20 Results @2462 MHz



Inband Peak

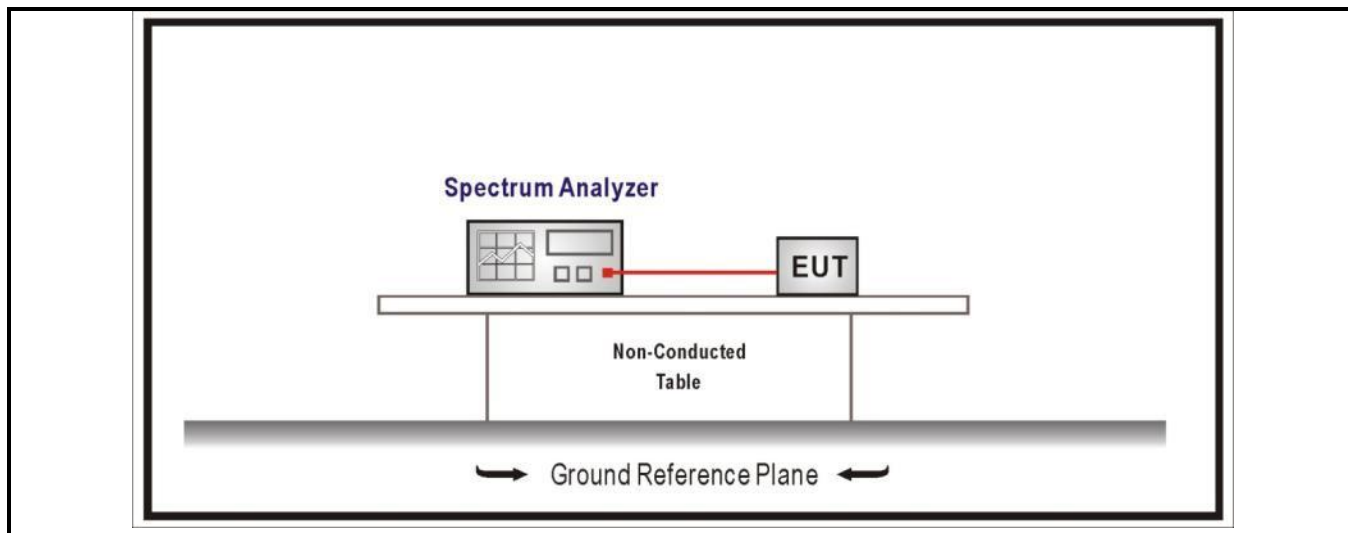
Frequency (MHz)	Level (dBm)
2462.0000	3.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.625000	-26.2	9.3	-16.9	PASS
2483.675000	-26.8	9.9	-16.9	PASS
2483.525000	-26.9	9.9	-16.9	PASS
2483.575000	-27.2	10.2	-16.9	PASS
2483.875000	-27.4	10.5	-16.9	PASS
2484.125000	-27.7	10.8	-16.9	PASS
2483.825000	-27.8	10.8	-16.9	PASS
2484.875000	-27.8	10.9	-16.9	PASS
2484.175000	-28.0	11.1	-16.9	PASS
2484.825000	-28.1	11.2	-16.9	PASS
2483.925000	-28.4	11.5	-16.9	PASS
2484.075000	-28.5	11.6	-16.9	PASS
2484.925000	-28.7	11.7	-16.9	PASS
2483.975000	-28.8	11.8	-16.9	PASS
2484.525000	-29.0	12.0	-16.9	PASS

4.5	Duty cycle	VERDICT: PASS
------------	-------------------	----------------------

Test Configuration



Performed measurements

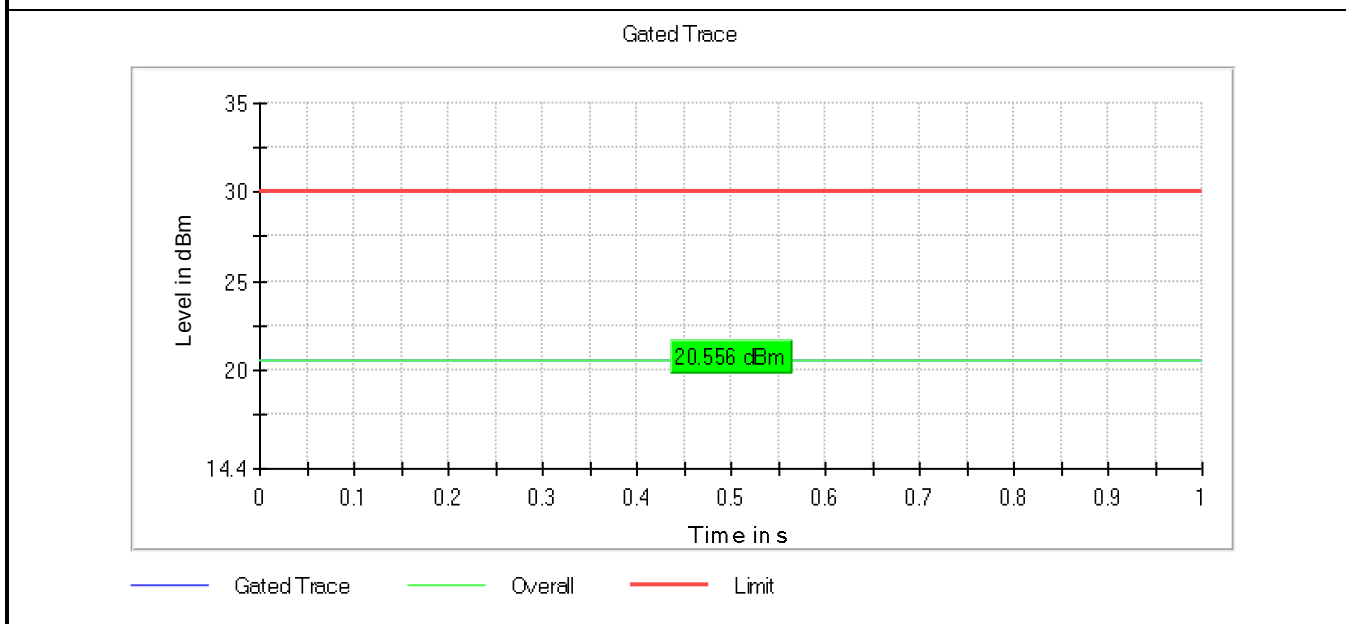
Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

Results

Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
IEEE 802.11 b	---	---	100.00%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

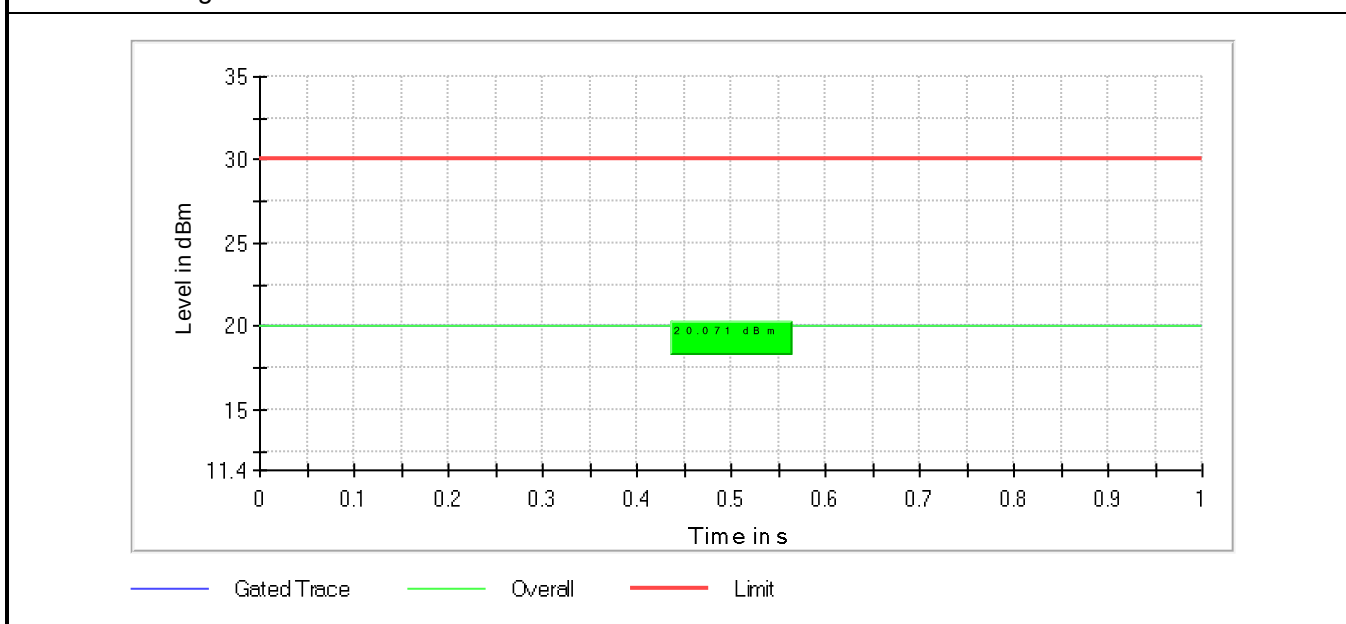
Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW $\geq 1/T$ will be used.

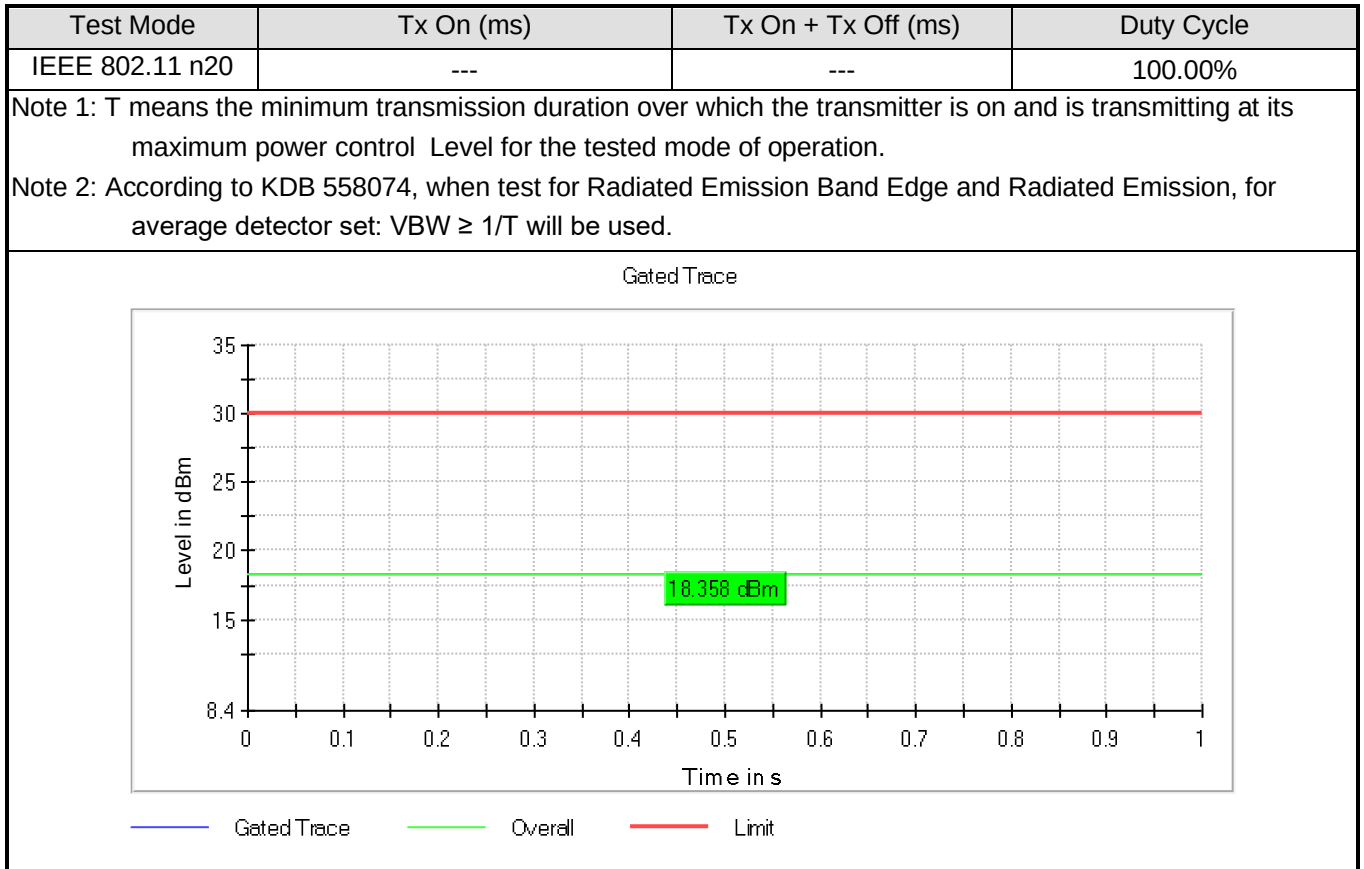


Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
IEEE 802.11 g	---	---	100.00%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW $\geq 1/T$ will be used.

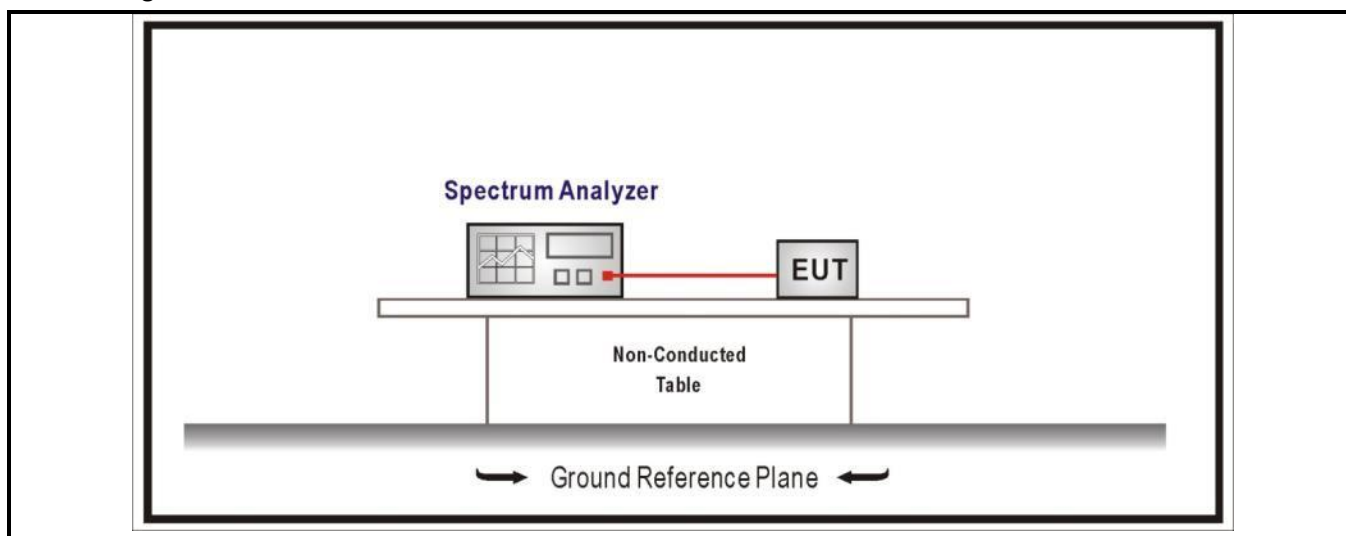




4.6 DTS Bandwidth	VERDICT: PASS
--------------------------	----------------------

Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2) RSS-Gen Issue 5 Section 6.7 RSS-247 Issue 3 section 5.2 a)
Systems using digital modulation techniques operate in the 2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at by least 500 kHz	

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

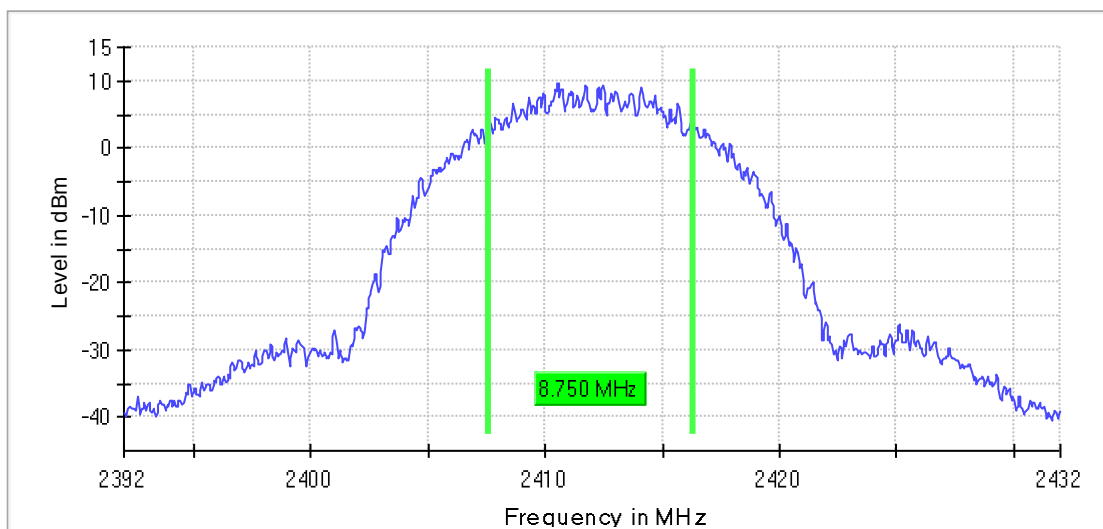
Results

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth(MHz)	RBW(kHz)/VBW(kHz)	Limit (kHz)	Result
IEEE 802.11 b	1	2412	8.75	100/300	>500	Pass
	6	2437	8.75		>500	Pass
	11	2462	8.75		>500	Pass

6dB Occupied Bandwidth

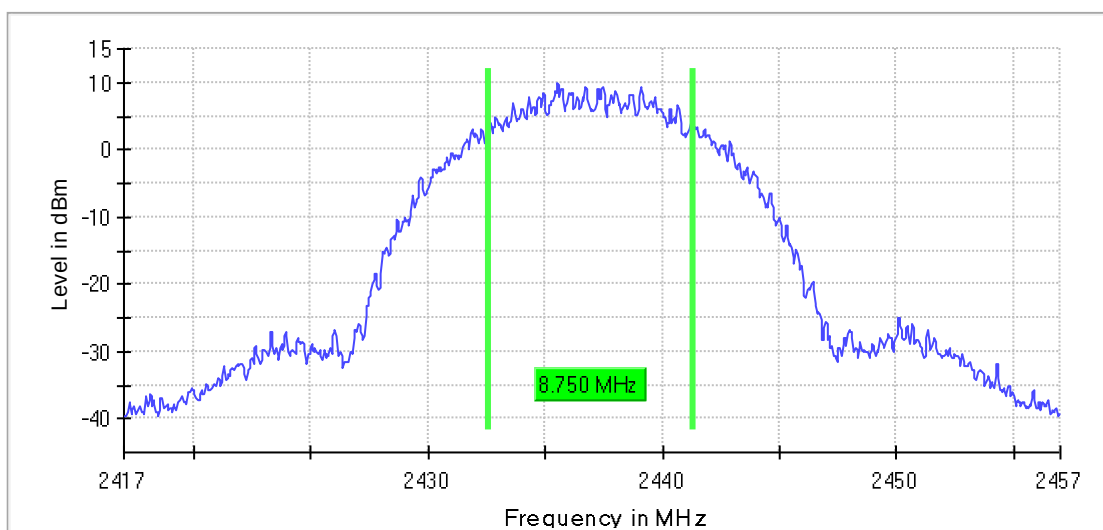
Mode 1 / CH1 (2412MHz)

6 dB Bandwidth



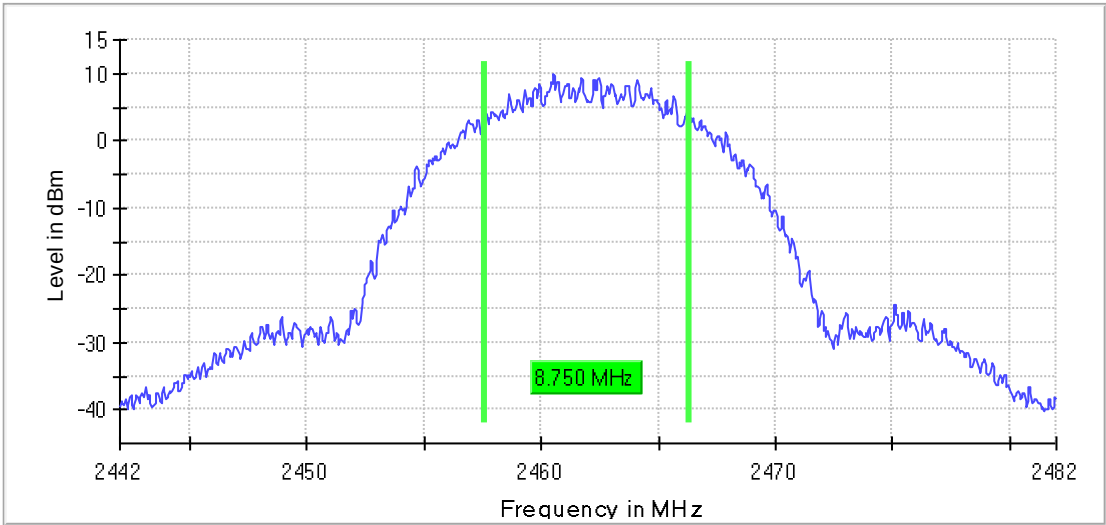
Mode 1 / CH6 (2437MHz)

6 dB Bandwidth



Mode 1 / CH11 (2462MHz)

6 dB Bandwidth

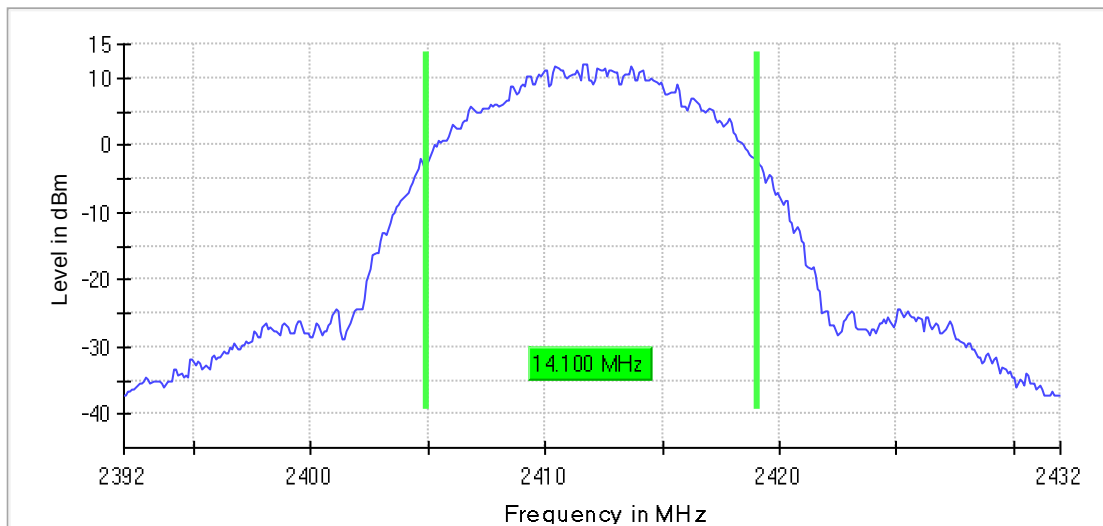


Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	RBW(kHz)/VBW(kHz)	Limit	Result
IEEE 802.11 b	1	2412	14.1	200/1000	Within frequency range	Pass
	6	2437	14.2		Within frequency range	Pass
	11	2462	14.2		Within frequency range	Pass

99% Occupied Bandwidth

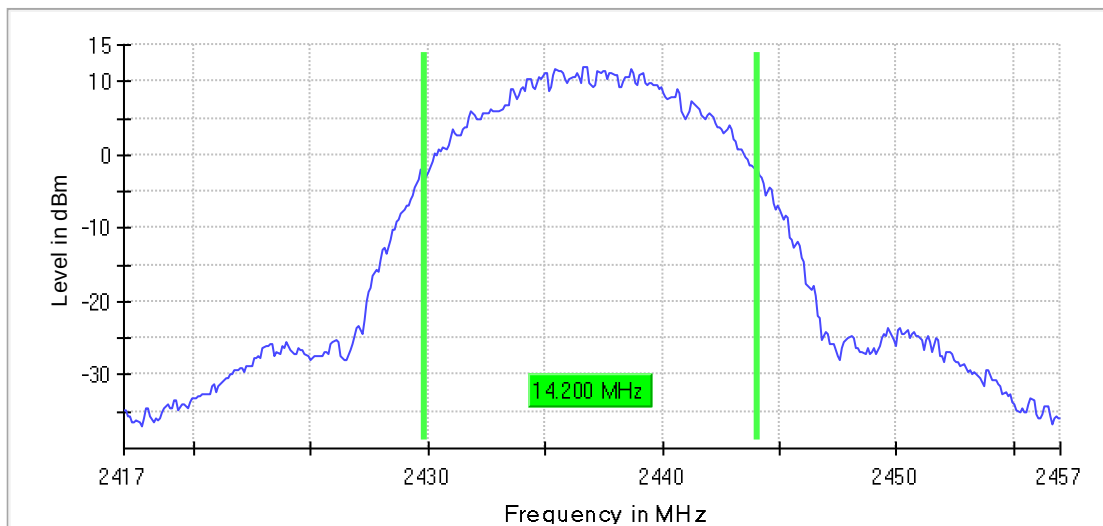
Mode 1 / CH1 (2412 MHz)

99 %Bandwidth



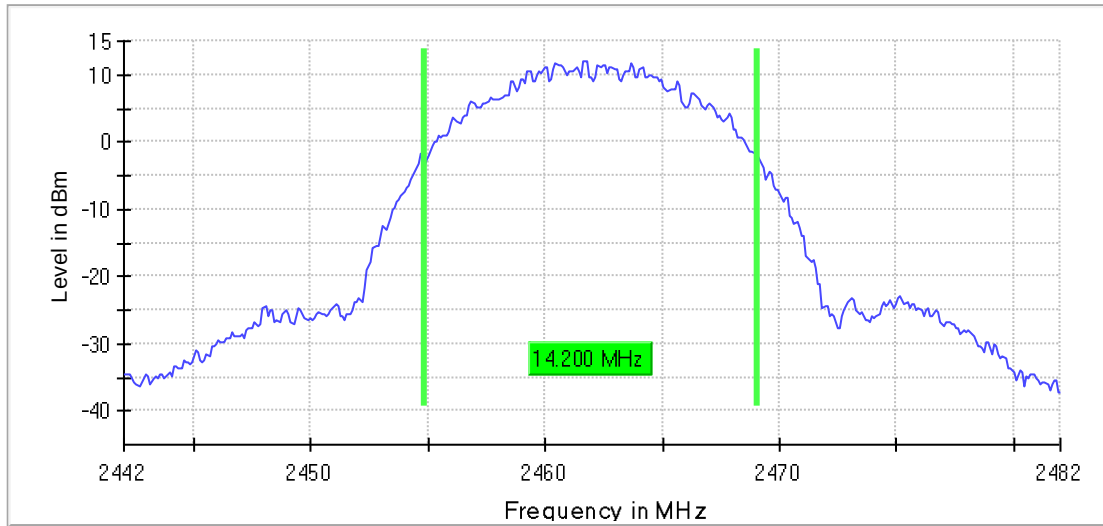
Mode 1 / CH6 (2437MHz)

99 %Bandwidth



Mode 1 / CH11 (2462 MHz)

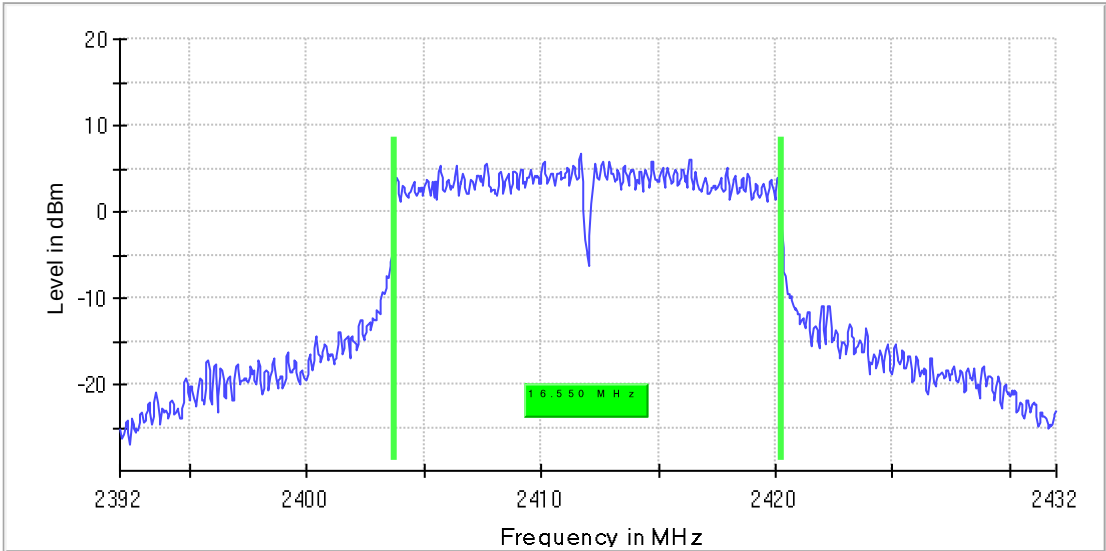
99 %Bandwidth



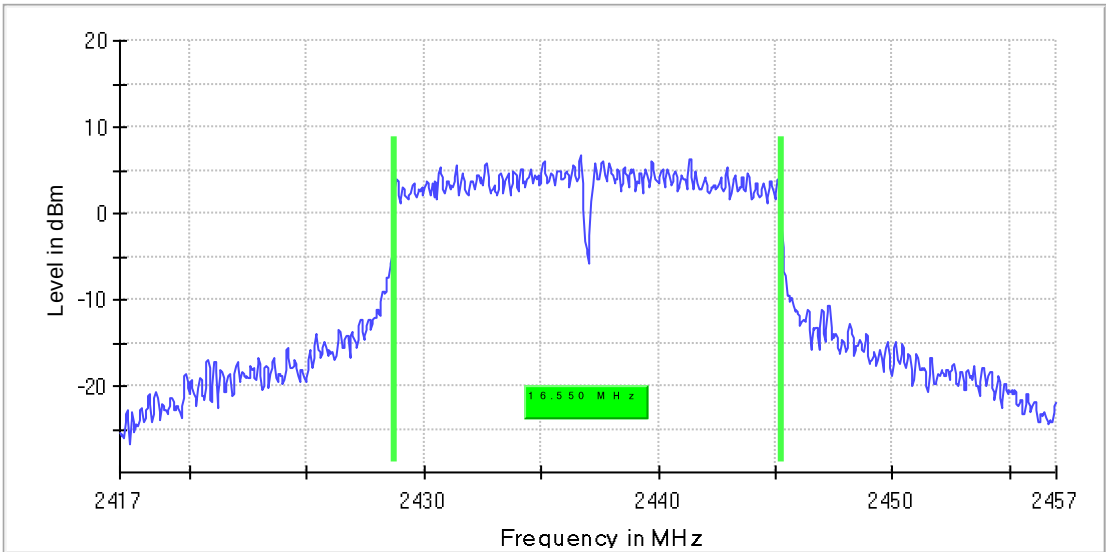
Results

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth(MHz)	RBW(kHz)/VBW(kHz)	Limit (kHz)	Result
IEEE 802.11 g	1	2412	16.55	100/300	>500	Pass
	6	2437	16.55		>500	Pass
	11	2462	16.60		>500	Pass

6dB Occupied Bandwidth
Mode 1 / CH1 (2412MHz)

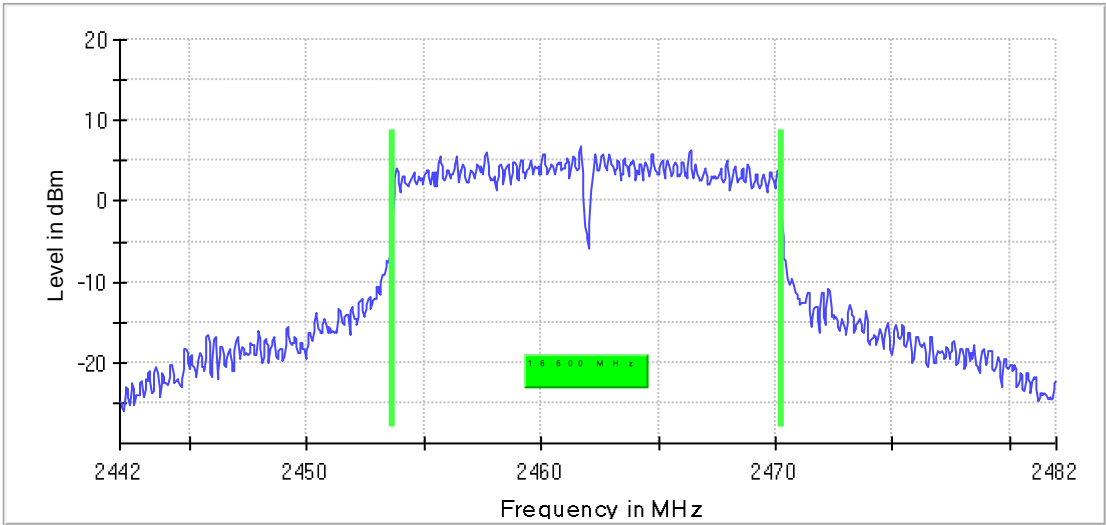


Mode 1 / CH6 (2437MHz)



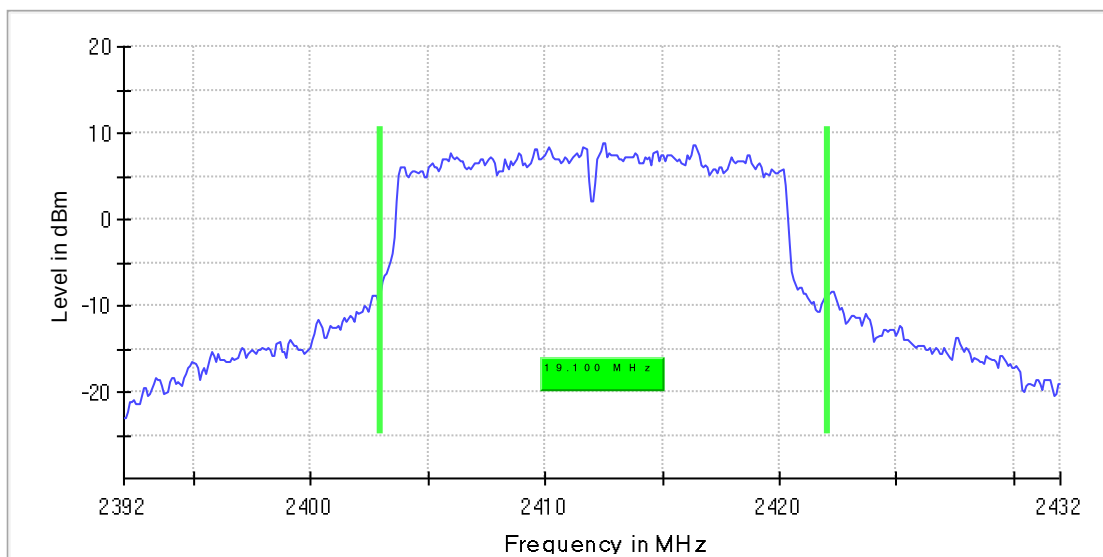
Mode 1 / CH11 (2462MHz)

6 dB Bandwidth



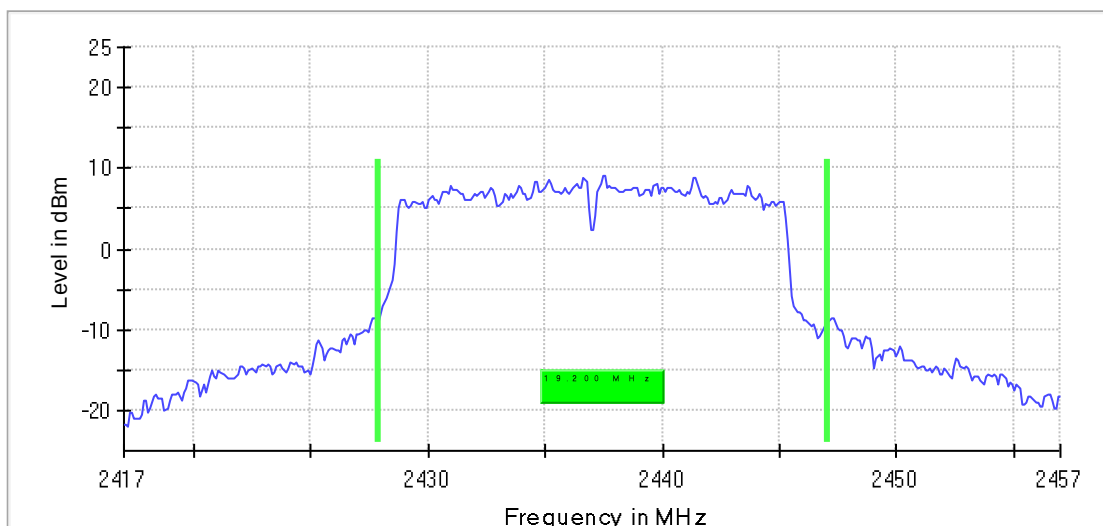
Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth(MHz)	RBW(kHz)/VBW(kHz)	Limit	Result
IEEE 802.11g	1	2412	19.1	200/1000	Within frequency range	Pass
	6	2437	19.1		Within frequency range	Pass
	11	2462	19.1		Within frequency range	Pass

99% Occupied Bandwidth
 Mode 1 / CH1 (2412 MHz)



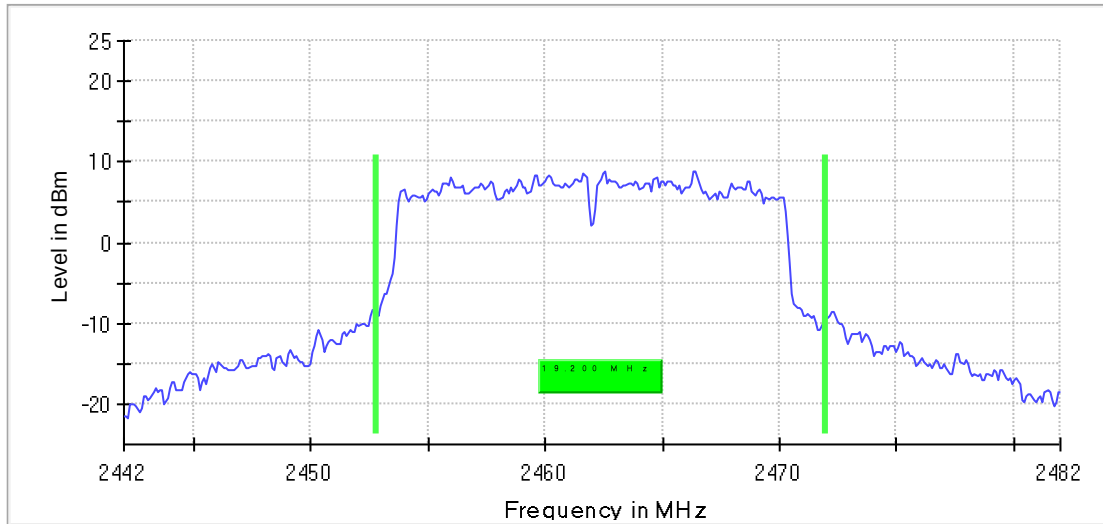
Mode 1 / CH6 (2437 MHz)

99 %Bandwidth



Mode 1 / CH11 (2462 MHz)

99 % Bandwidth



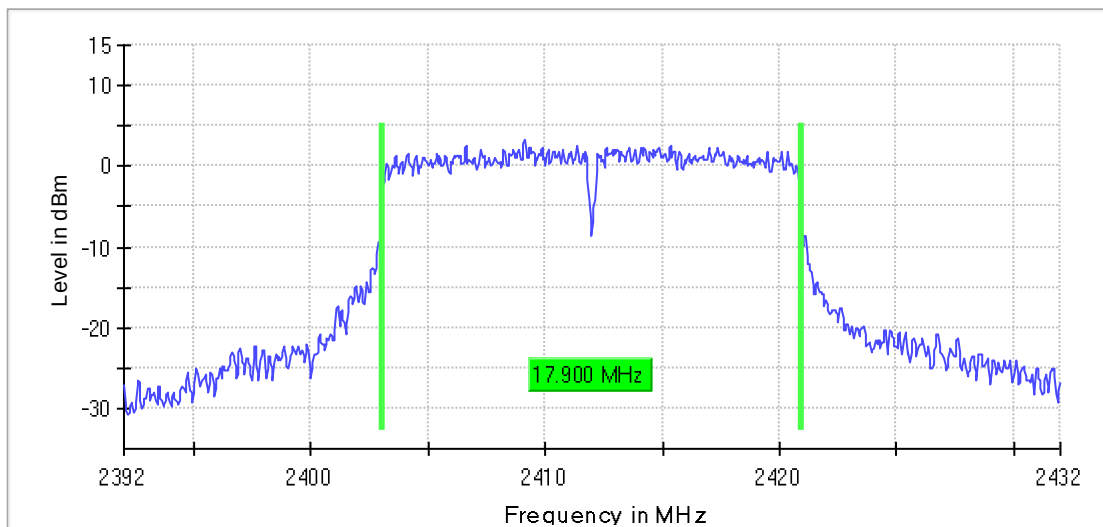
Results

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth(MHz)	RBW(kHz)/VBW(kHz)	Limit (kHz)	Result
IEEE 802.11 n20	1	2412	17.90	100/300	>500	Pass
	6	2437	17.90		>500	Pass
	11	2462	17.90		>500	Pass

6dB Occupied Bandwidth

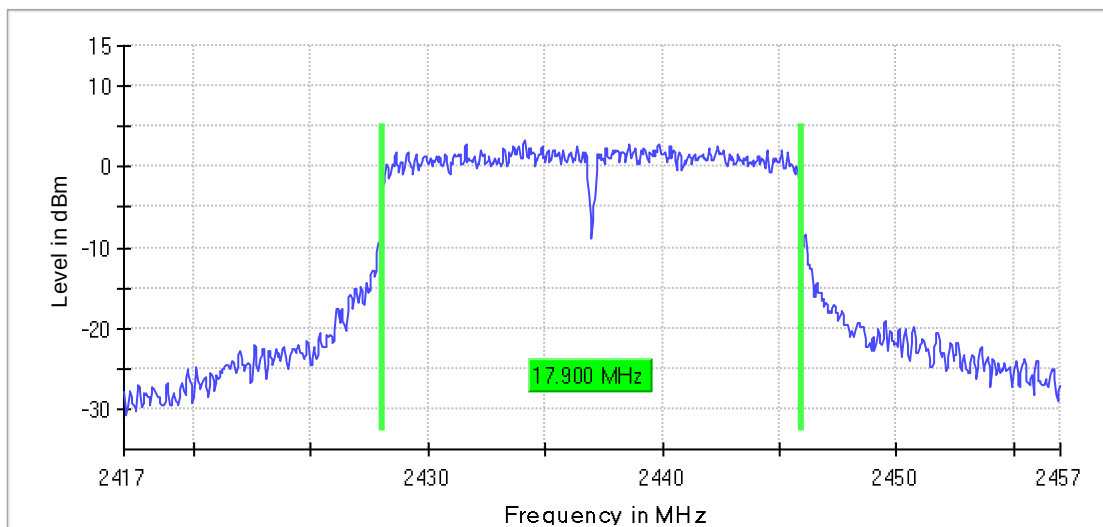
Mode 1 / CH1 (2412MHz)

6 dB Bandwidth

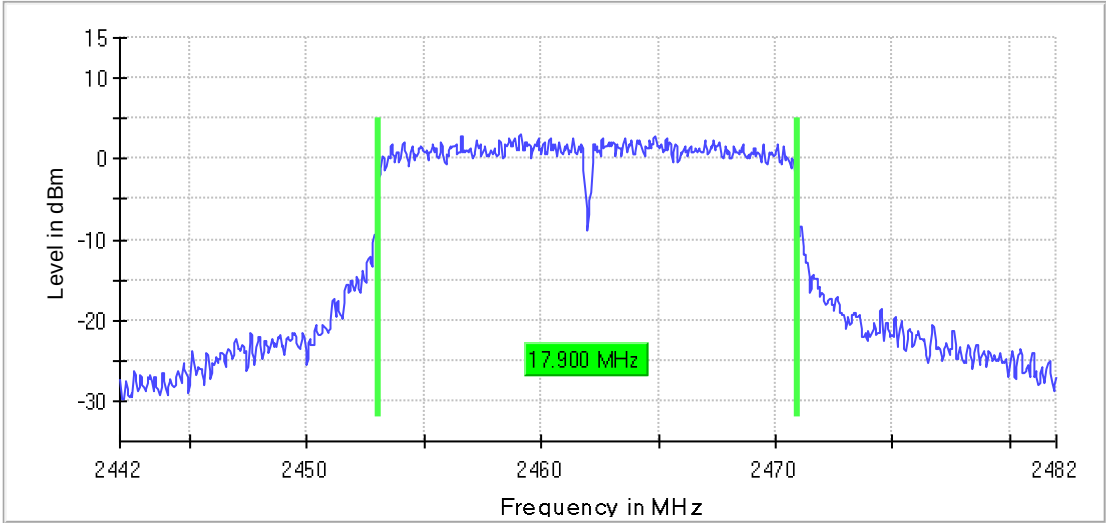


Mode 1 / CH6 (2437MHz)

6 dB Bandwidth



Mode 1 / CH11 (2462MHz)
6 dB Bandwidth

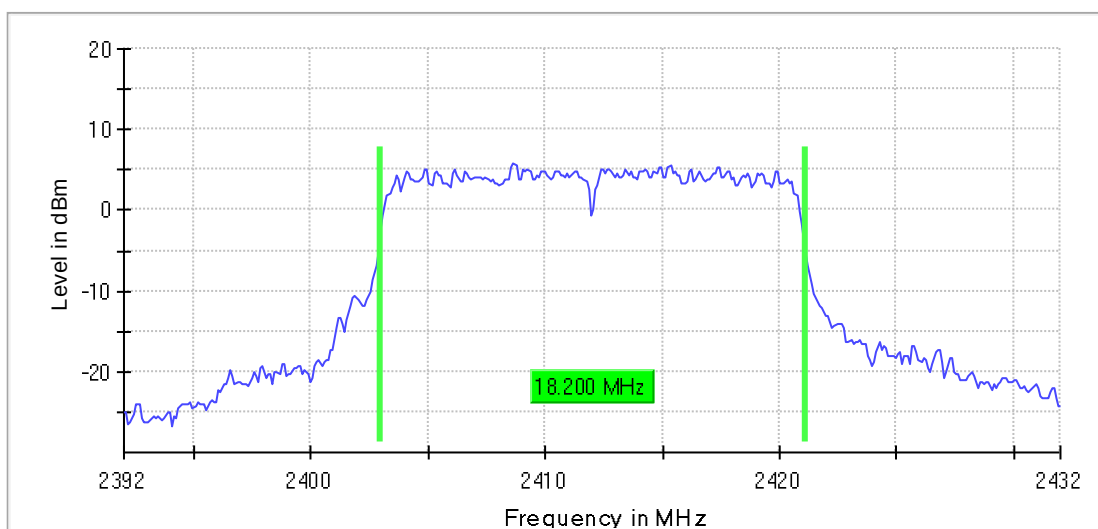


Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth(MHz)	RBW(kHz)/VBW(kHz)	Limit	Result
IEEE 802.11 n20	1	2412	18.20	200/1000	Within frequency range	Pass
	6	2437	18.20		Within frequency range	Pass
	11	2462	18.30		Within frequency range	Pass

99% Occupied Bandwidth

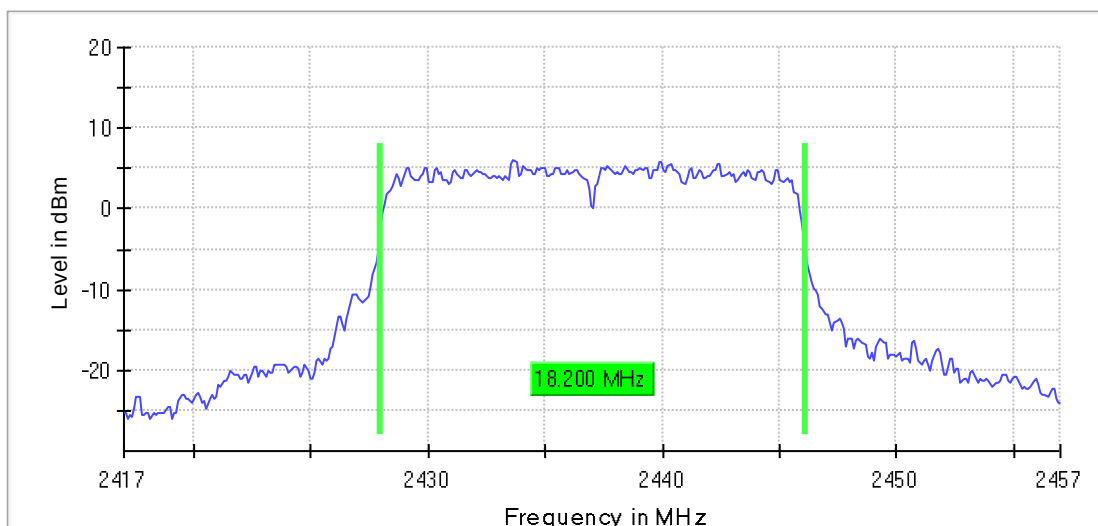
Mode 1 / CH1 (2412 MHz)

99 %Bandwidth



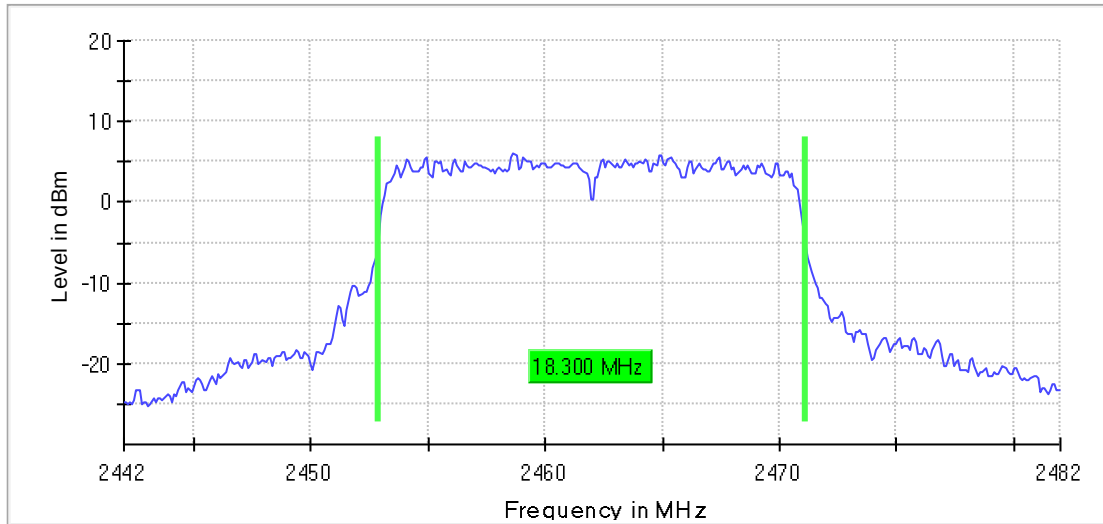
Mode 1 / CH6 (2437 MHz)

99 %Bandwidth



Mode 1 / CH11 (2462 MHz)

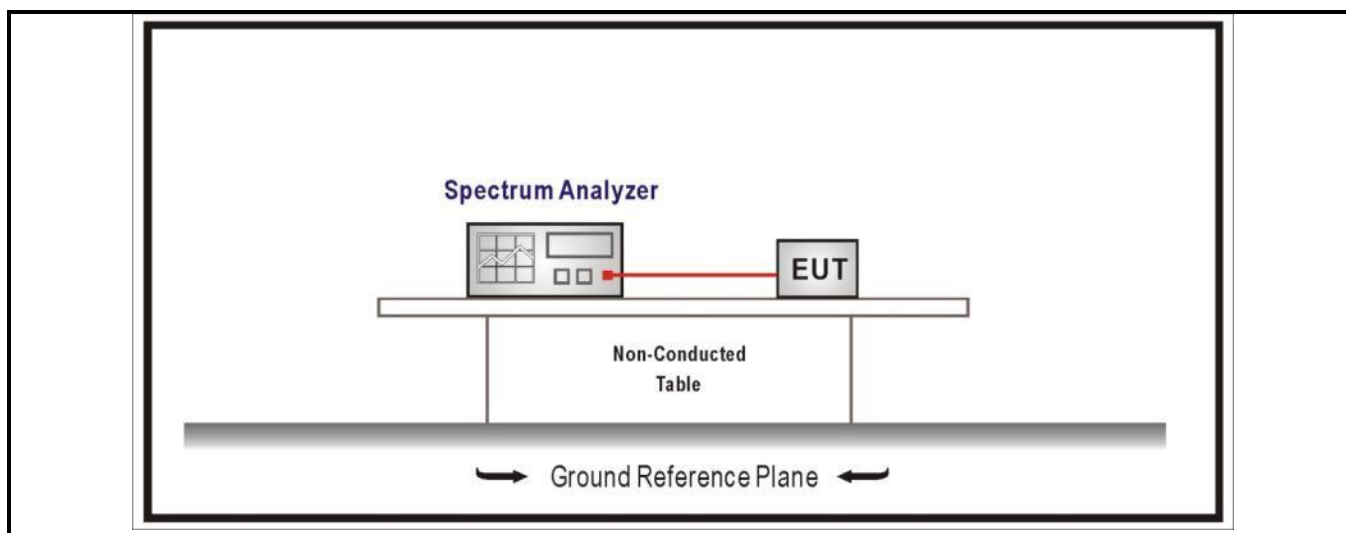
99 % Bandwidth



4.7	Fundamental emission output power	VERDICT: PASS
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Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3) RSS-247 Issue 3 Section 5.4(d)
☒	GTX < 6dBi	Pout≤30dBm
☐	GTX > 6dBi	
☐	Non-Fix point-point	Pout≤30-(GTX -6)
☐	Fix point-point	Pout≤30-[(GTX-6)]/3
☐	Point-to-multipoint	Pout≤30-(GTX-6)
☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
☐	single LE directional beam	Pout≤30-[(GTX-6)]/3+8dB
Note 1 : GTX directional gain of transmitting antennas.		
Note 2 : Pout is maximum peak conducted output power .		

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

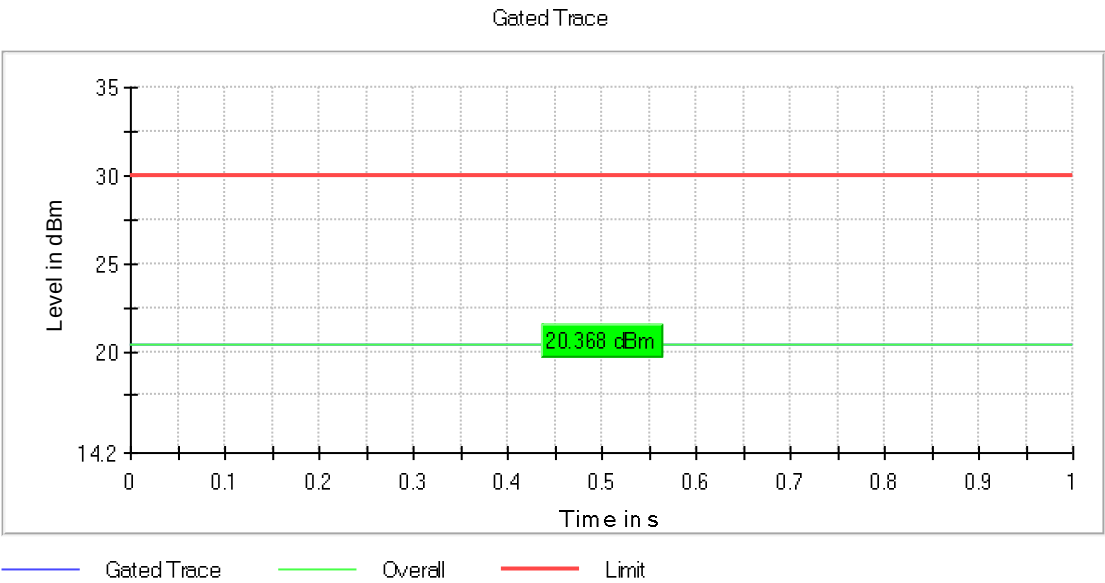
Results

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
IEEE 802.11 b	1	2412	20.4	≤30	20.9	≤36	Pass
	6	2437	20.5	≤30	21.0	≤36	Pass
	11	2462	20.6	≤30	21.1	≤36	Pass
IEEE 802.11 g	1	2412	20.1	≤30	20.6	≤36	Pass
	6	2437	20.2	≤30	20.7	≤36	Pass
	11	2462	20.2	≤30	20.7	≤36	Pass
IEEE 802.11 n20	1	2412	18.4	≤30	18.9	≤36	Pass
	6	2437	18.5	≤30	19.0	≤36	Pass
	11	2462	18.6	≤30	19.1	≤36	Pass

Remark: 0.5 dBi

Data of IEEE 802.11 b

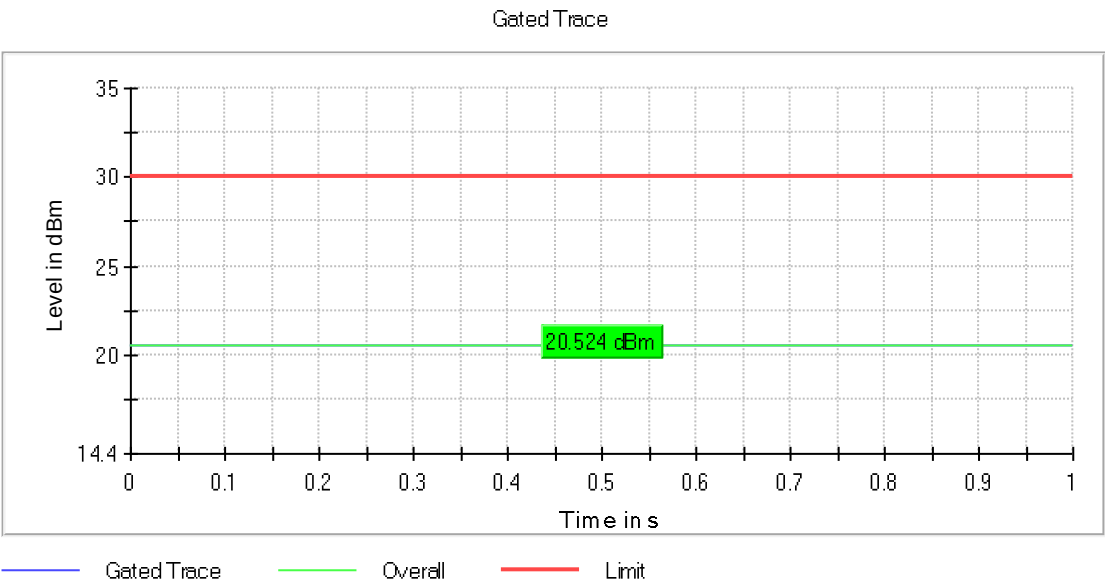
Result
CH1 (2412 MHz)



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

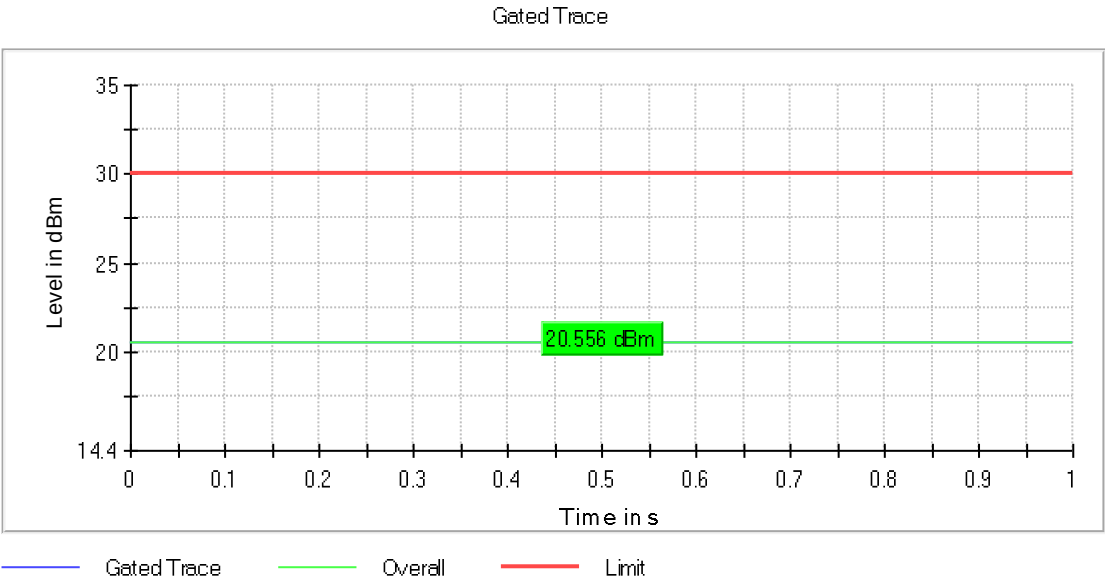
CH6 (2437 MHz)



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

CH11 (2462 MHz)

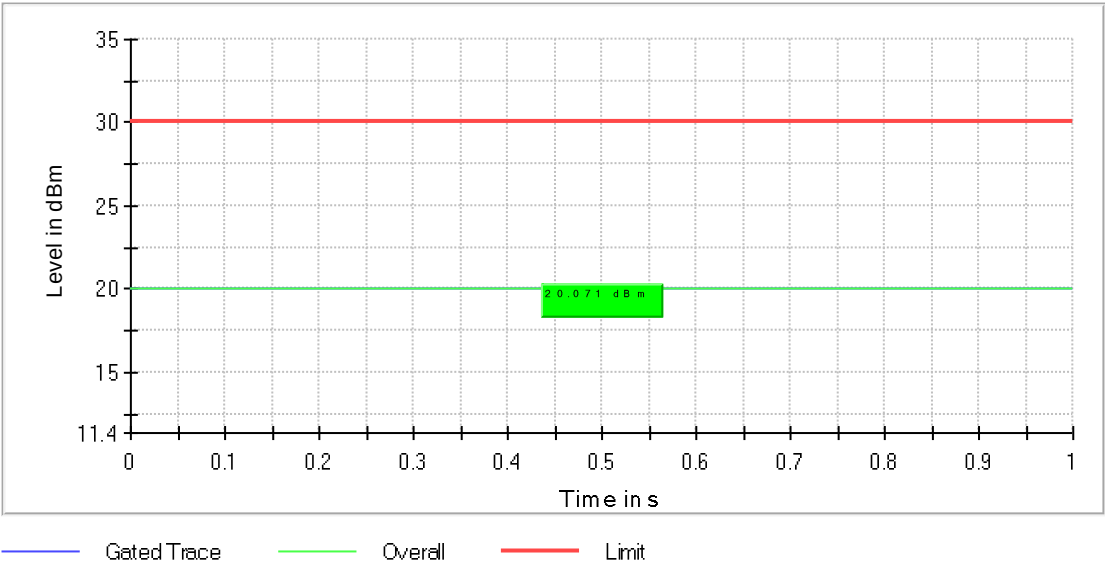


OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Data of IEEE 802.11 g

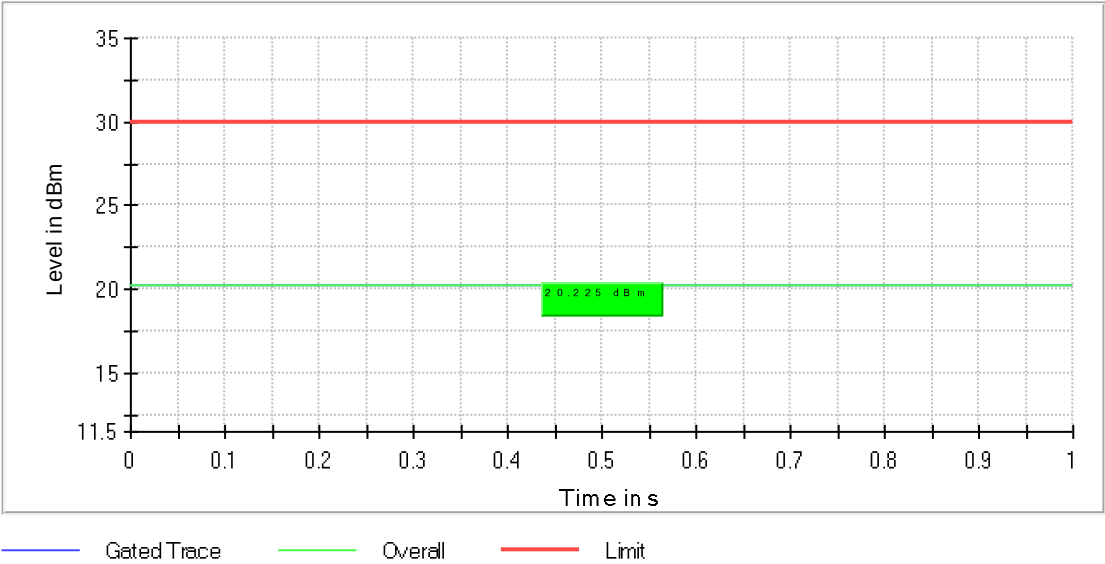
Result
CH1 (2412 MHz)



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

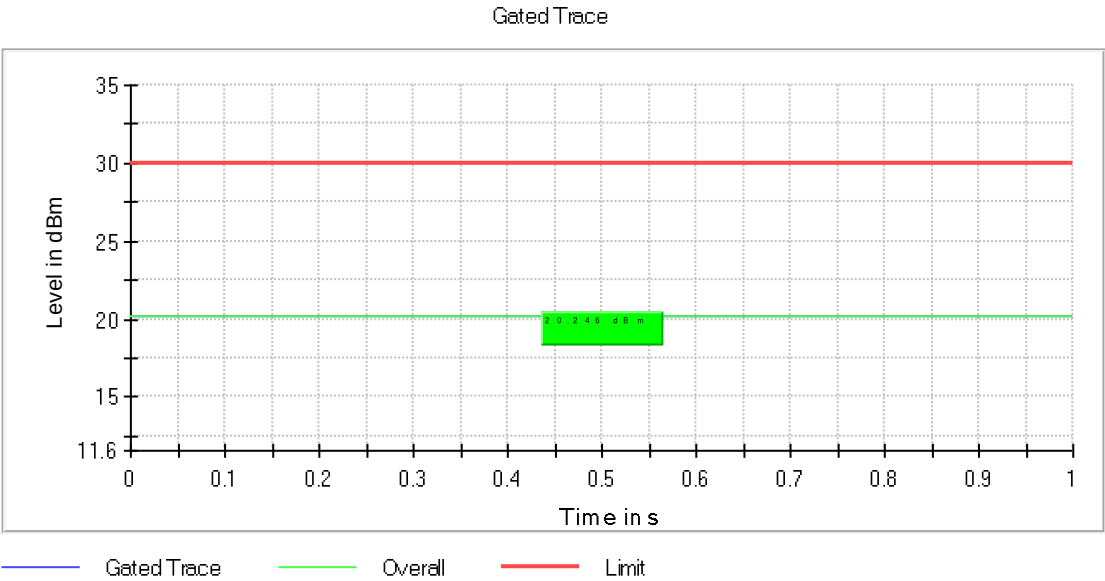
CH6 (2437 MHz)



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

CH11 (2462 MHz)

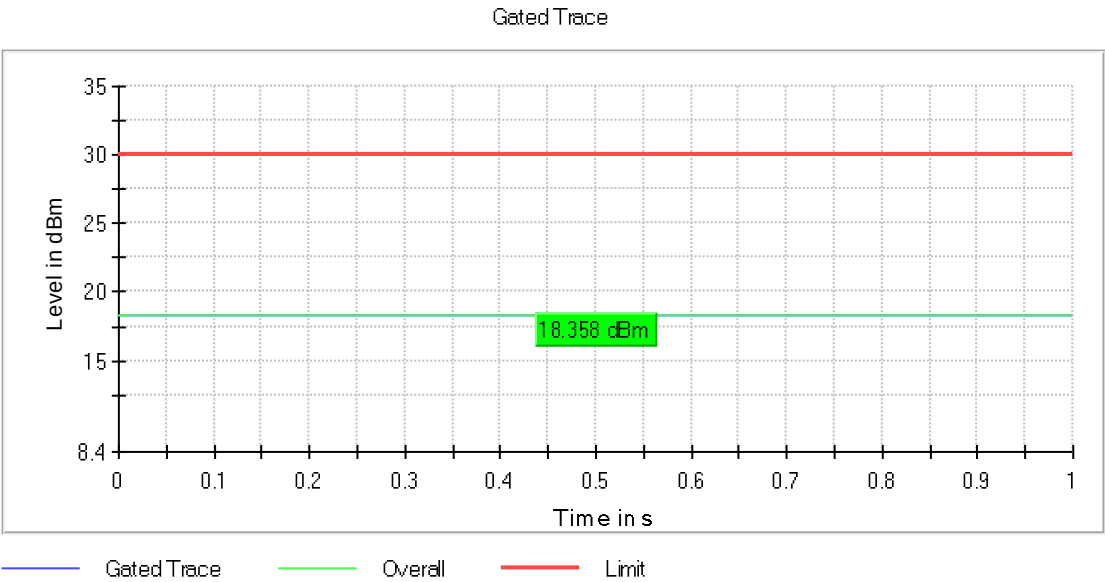


OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

Data of IEEE 802.11 n20

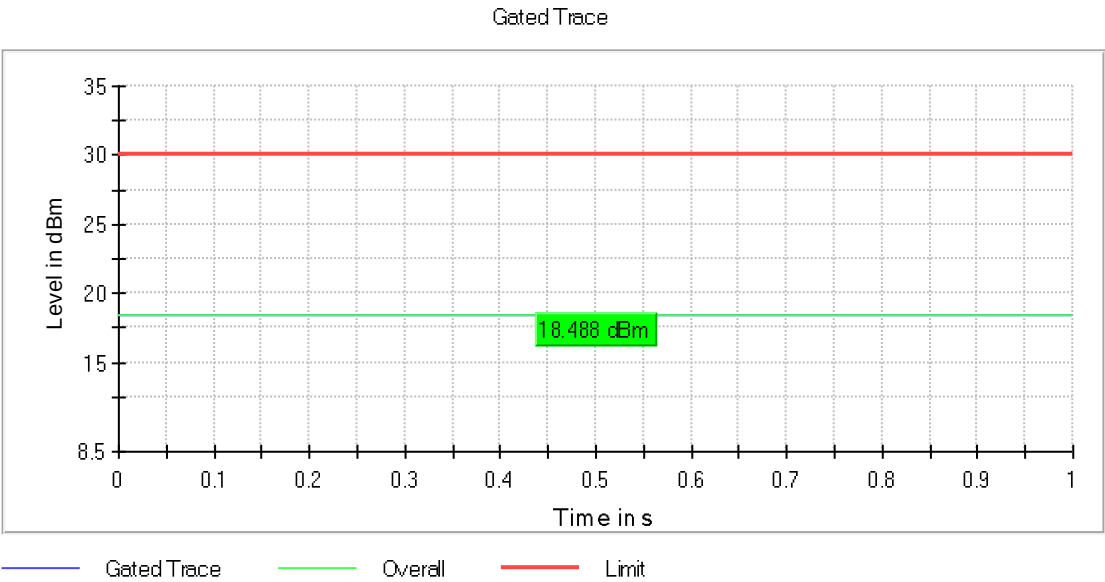
Result
CH1 (2412 MHz)



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

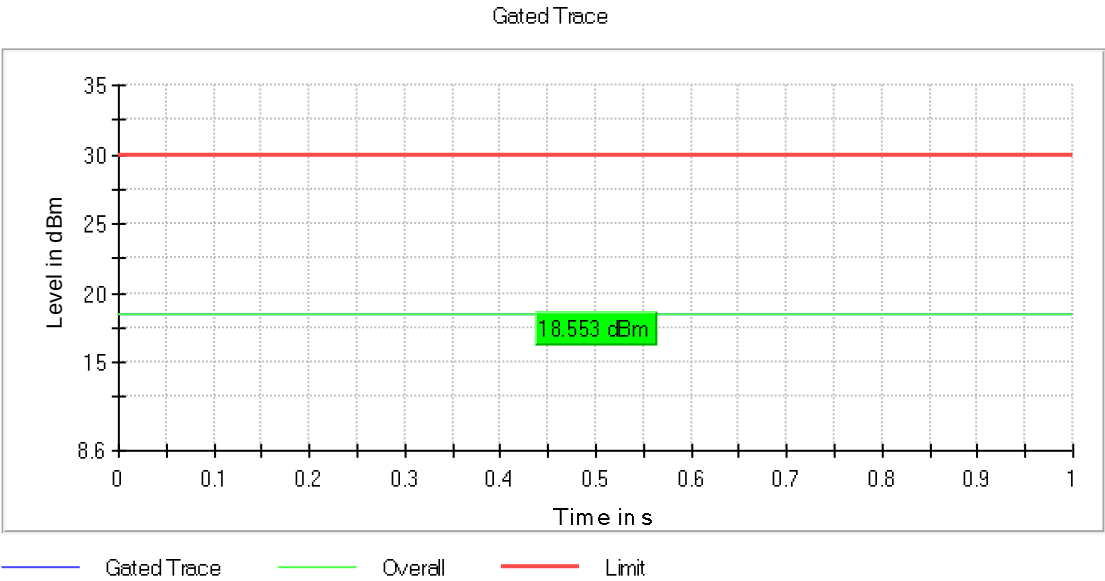
CH6 (2437 MHz)



OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

CH11 (2462 MHz)



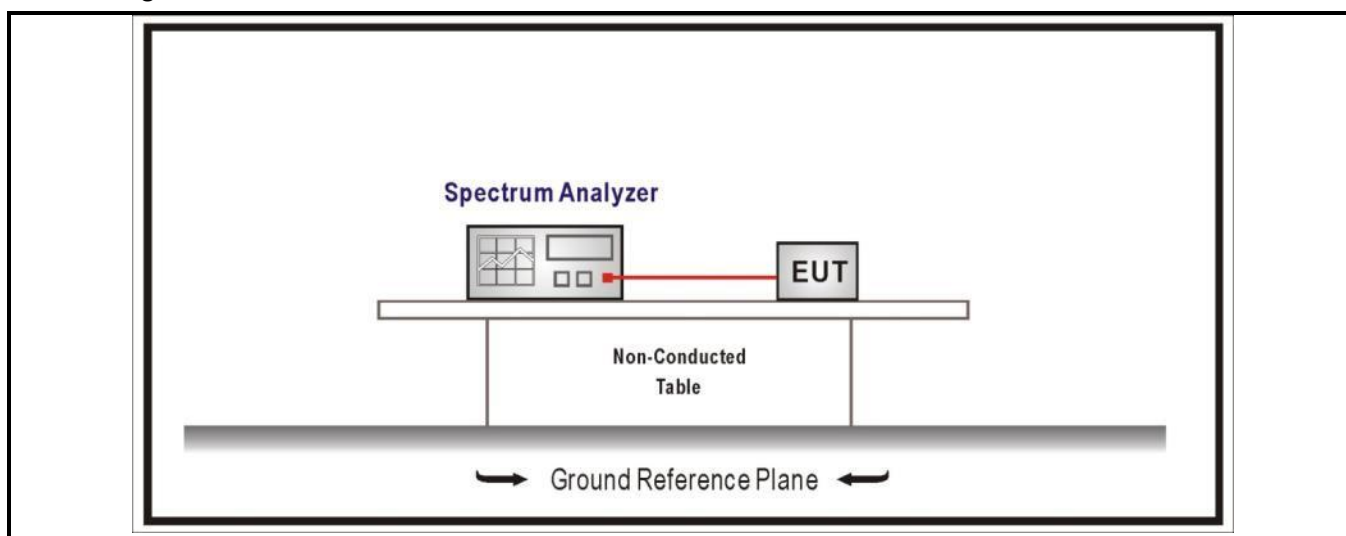
OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

4.8 Power Density	VERDICT: PASS
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Standard	FCC Part 15 Subpart C Paragraph 15.247 (b)(3) RSS-247 Issue 3 Section 5.2(b)
Power Spectral Density $\leq 8 \text{ dBm/3kHz}$	

Test Configuration



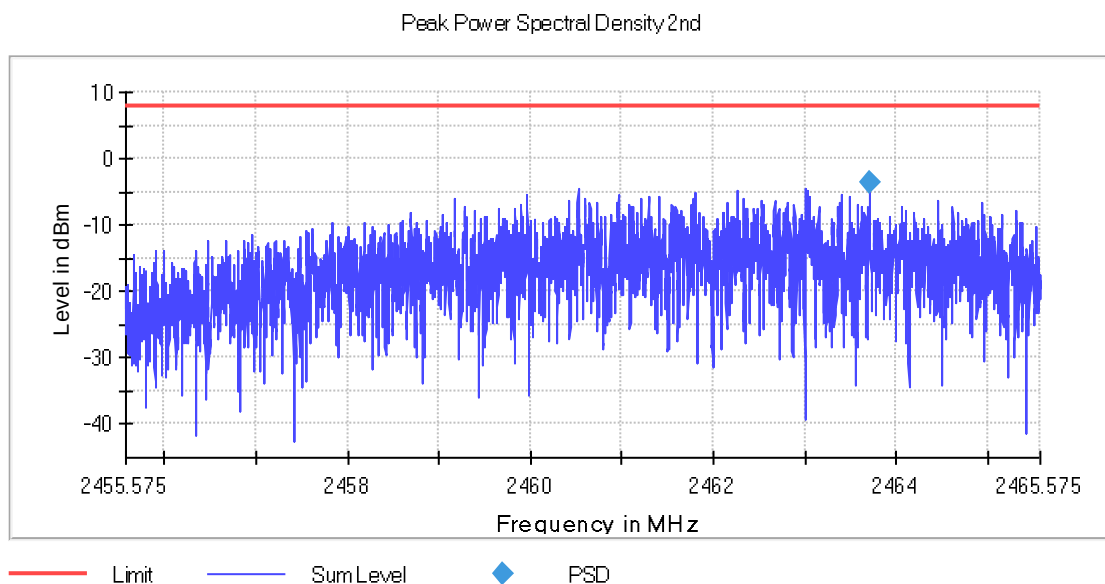
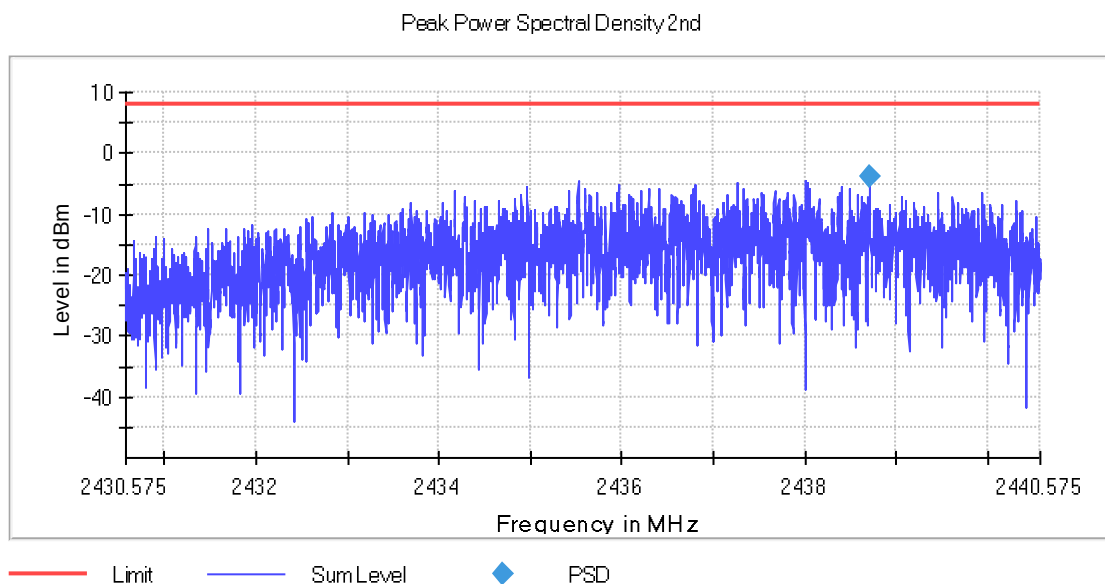
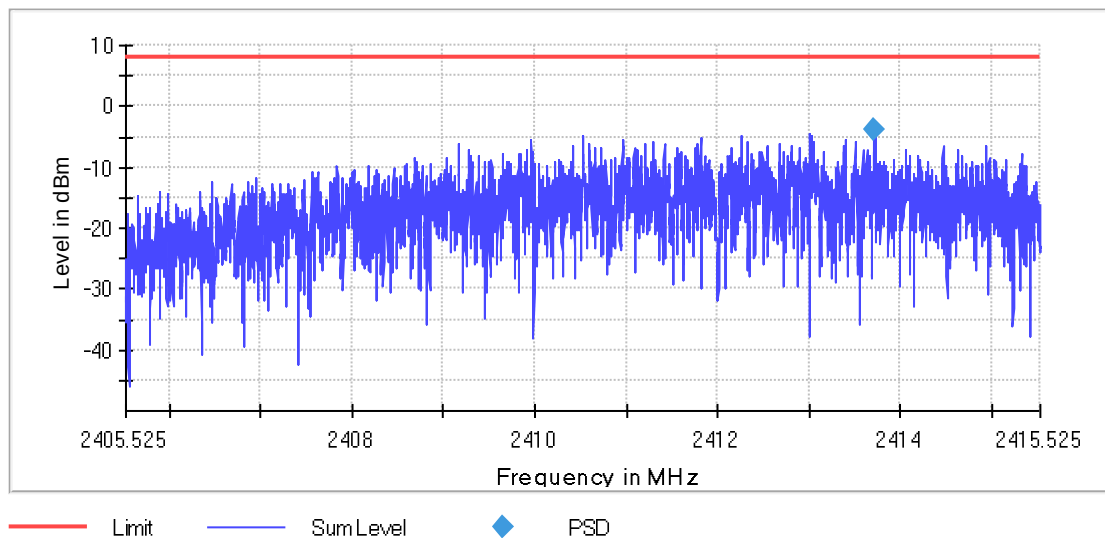
Performed measurements

Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark	---	

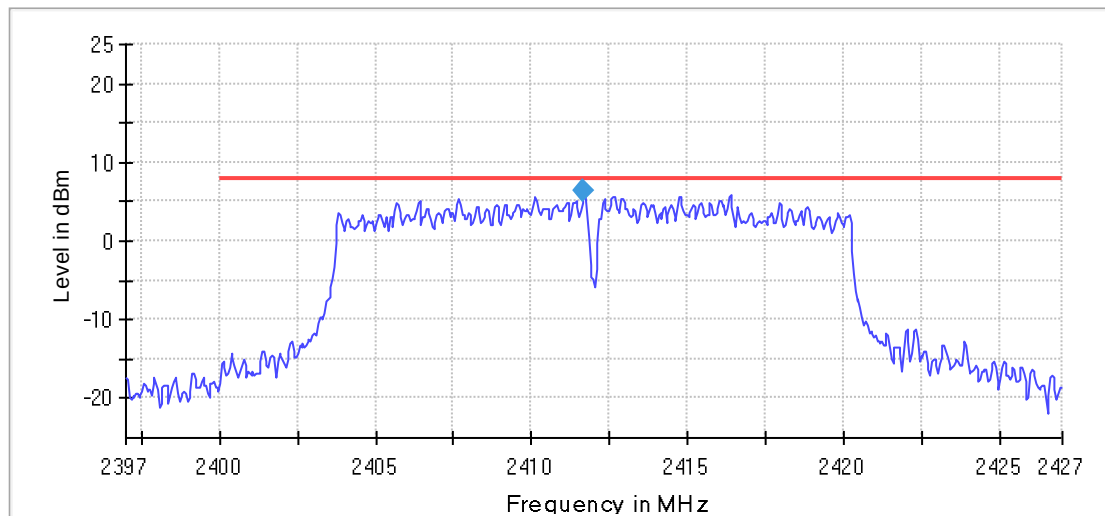
Results

Mode	Channel	Test Frequency (MHz)	RBW(kHz)/VBW(kHz)	Power Output (dBm)	Limit (dBm/3kHz)	Result
IEEE 802.11 b	1	2412	100/300	-3.797	≤ 8	Pass
	6	2437		-3.724	≤ 8	Pass
	11	2462		-3.709	≤ 8	Pass
IEEE 802.11 g	1	2412		6.471	≤ 8	Pass
	6	2437		6.598	≤ 8	Pass
	11	2462		6.680	≤ 8	Pass
IEEE 802.11 n20	1	2412		3.027	≤ 8	Pass
	6	2437		2.818	≤ 8	Pass
	11	2462		2.982	≤ 8	Pass

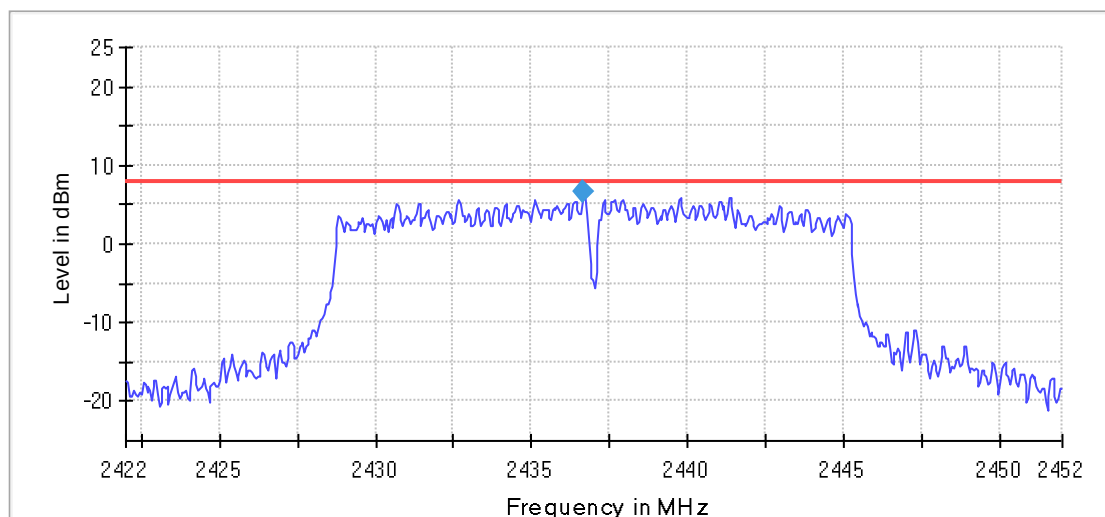
Data of IEEE 802.11 b
 Peak Power Spectral Density 2nd



Data of IEEE 802.11 g

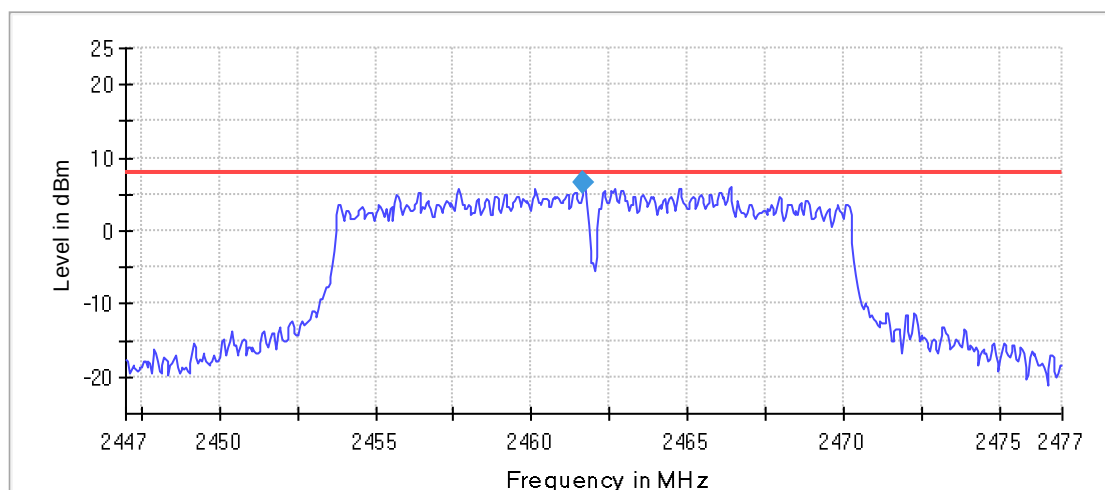


— Limit — SumLevel ◆ PSD



— Limit — SumLevel ◆ PSD

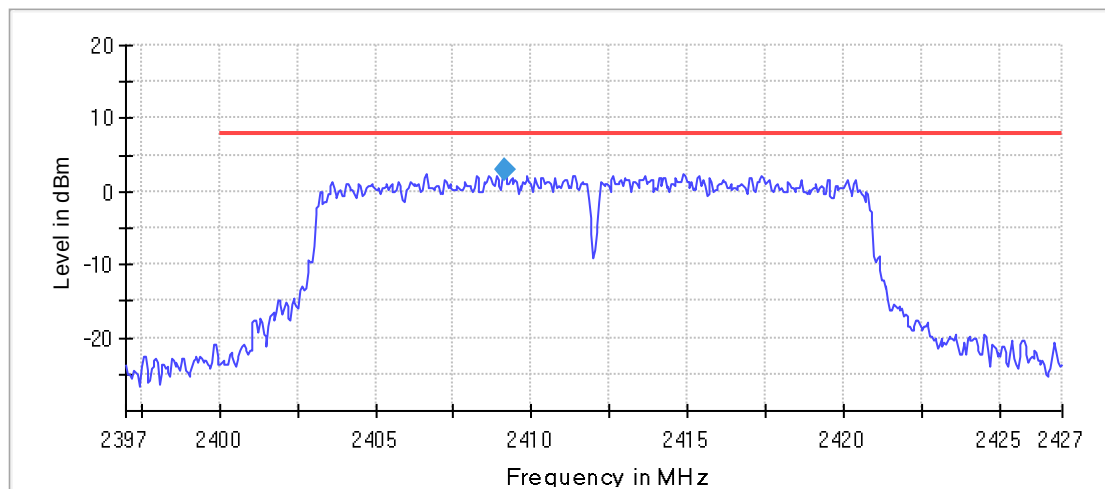
Peak Power Spectral Density



— Limit — SumLevel ◆ PSD

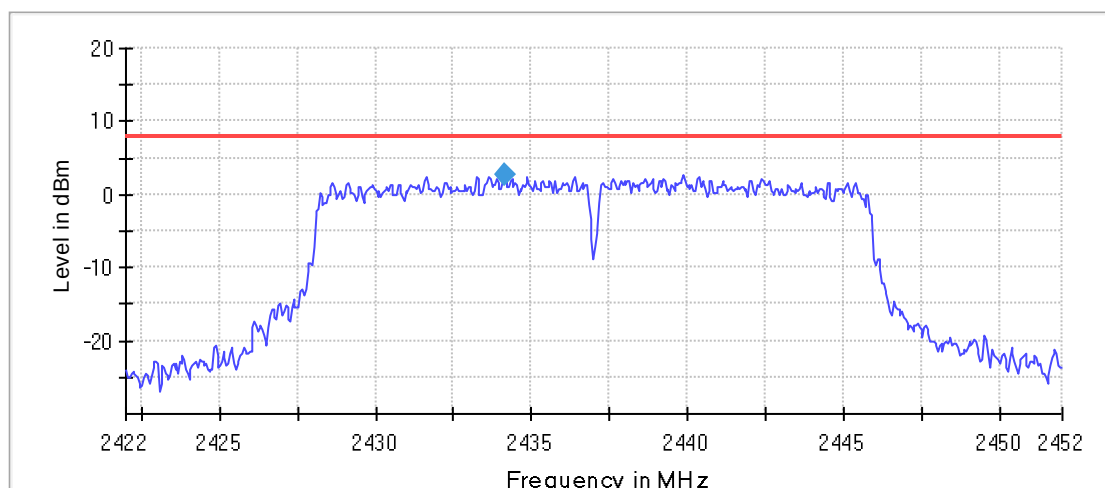
Data of IEEE 802.11 n20

Peak Power Spectral Density



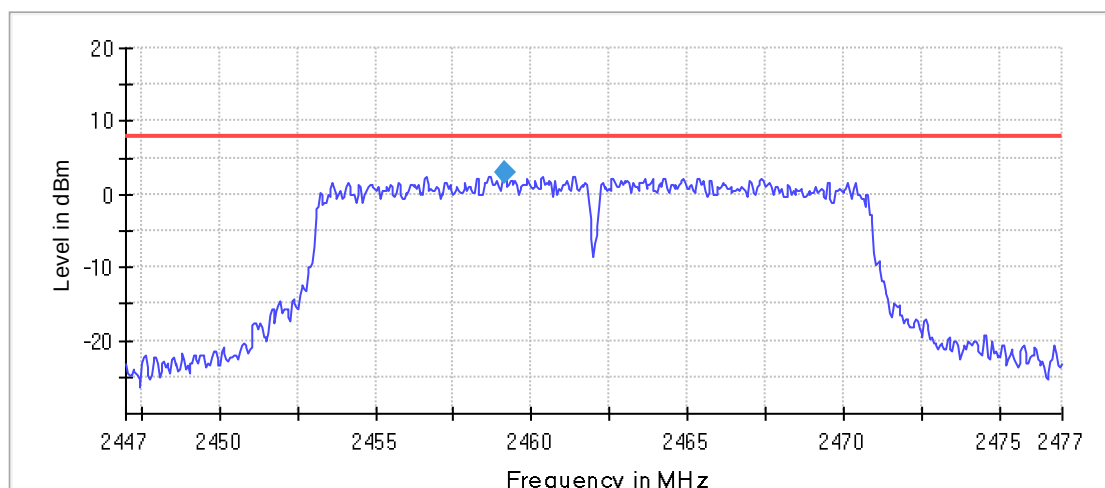
— Limit — SumLevel ◆ PSD

Peak Power Spectral Density



— Limit — SumLevel ◆ PSD

Peak Power Spectral Density



— Limit — SumLevel ◆ PSD

5 IDENTIFICATION OF THE EQUIPMENT UNDER TEST

The photographs show the tested device.

Refer to documents External photo and Internal photo.

ANNEX 1 – MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Occupied Channel Bandwidth	$\pm 0,7\%$
RF Output power, conducted	$\pm 0,6\text{dB}$
Power Spectral Density, Conducted	$\pm 0,6\text{dB}$
Unwanted Emissions, Conducted	$\pm 0.7\text{dB}$
Spurious (30-1000MHz)	$\pm 4,4\text{dB}$
Spurious (1-18GHz)	$\pm 4,4\text{dB}$

ANNEX 2 - USED EQUIPMENT

Instrumentation	Manufacturer	Model	Serial no.	DEKRA No.	Cal Due date
Spectrum analyzer	R&S	FSV	SN101012	G/L1235	2026/03/07
Chamber	ETS	/	/	G/L856	2026/02/25
Horn antenna (1GHz-18GHz)	R&S	HF907	102306	G/L1236	2026/02/03
Horn antenna preamplifier	Schwarzbeek	SCU-18	102234	G/L1236-1	2026/02/03
Horn antenna (18GHz-26.5GHz)	ETS	3160-09	00164643	G/L1237	2026/01/09
Horn antenna preamplifier	/	SCU-26D	1879064	G/L1237-1	2026/01/24
EMI receiver	R&S	ESCI	101205	G/L857	2025/06/23
Antenna (30MHz-2GHz)	SCHWARZBECK	VULB9168	01229	GZ2018	2026/03/28
Antenna (30MHz-3GHz)	SCHWARZBECK	VULB9163	506	G/L864	2025/06/11
OSP	R&S	OSP 150	101907	GZ1894	2026/02/01
Signal generator	R&S	SMB 100A	181317	GZ1895	2026/02/01
Vector signal generator	R&S	SMBV100A	263671	GZ1896	2026/02/01
Wireless connectivity tester	R&S	CMW 270	100990	GZ1893	2026/02/01
Manual step attenuator (11dB)	Keysight	8494B	TH60074118	GZ2086	2025/08/20
Manual step attenuator (70dB)	Keysight	8495D	TH60074471	GZ2087	2025/08/20
Band filter	HX Microwave	HXLBQ- DZA118	23110101-2	GZ2540	2025/11/26
Band filter	HX Microwave	HXLBQ- DZA104	23110101-1	GZ2541	2025/11/26
Band filter	HX Microwave	HXLBQ- DZA219	23080804-1	GZ2464	2025/08/18
RMI artificial antenna	/	/	/	GZ1988	2026/03/24
Programmable Temperature & Humidity Chamber	ASTUOD	TT-5166	52689	GZ2209	2026/04/08
Test software	R&S	EMC32	---	---	Version 11.30.00

ANNEX 3 - TEST PHOTOS

Refer to document Test setup.

--- END ---