

TEST REPORT

of

FCC Part 15 Subpart E §15.407
IC RSS-247 Issue 3 and RSS-Gen Issue 5

FCC ID: BEJTFBMEIBN3EU
IC Certification: 2703H-TFBMEIBN3EU

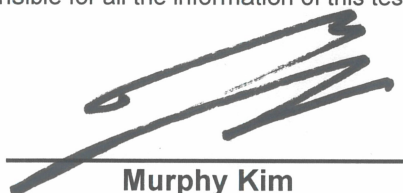
Equipment Under Test : Telematics
Model Name : TFBMEIBN3EU
Variant Model Name(s) : Refer to page 4
Applicant : FCC: LG Electronics USA, Inc.
IC: LG ELECTRONICS INC.
Manufacturer : LG Electronics Co., Ltd.
Date of Receipt : 2023.12.13
Date of Test(s) : 2024.03.04 ~ 2024.09.20
Date of Issue : 2024.09.20

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

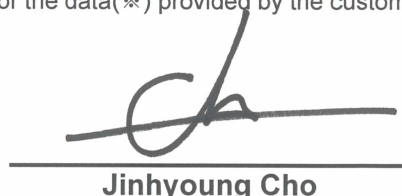
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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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Tested by:


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Technical
Manager:


Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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1.2. Details of Applicant

FCC Applicant : LG Electronics USA, Inc.

FCC Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, United States, 07632

IC Applicant : LG ELECTRONICS INC.

IC Address : 222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea (Republic of), 451-713

Contact Person : Kim, David

Phone No. : +1 201 470 2696

1.3. Details of Manufacturer

Company : LG Electronics Inc.

Address : 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea, 07336

1.4. Description of EUT

Kind of Product	Telematics				
Model Name	TFBMEIBN3EU				
Approved Module	FCC ID: BEJTM16FNNABM0 IC Certification: 2703H-TM16FNNABM0				
Variant Model Names	TFBMNINN0EN, TFBMEIBN3FR				
Serial Number	Conducted: #1 Radiated: #2				
Power Supply	DC 12 V				
Frequency Range	5 180 MHz ~ 5 240 MHz (Band 1: 11a/n_HT20, 11ac_VHT20) 5 190 MHz ~ 5 230 MHz (Band 1: 11n_HT40, 11ac_VHT40) 5 210 MHz (Band 1: 11ac_VHT80) 5 260 MHz ~ 5 320 MHz (Band 2A: 11a/n_HT20, 11ac_VHT20) 5 270 MHz ~ 5 310 MHz (Band 2A: 11n_HT40, 11ac_VHT40) 5 290 MHz (Band 2A: 11ac_VHT80) 5 500 MHz ~ 5 720 MHz (Band 2C: 11a/n_HT20, 11ac_VHT20) 5 510 MHz ~ 5 710 MHz (Band 2C: 11n_HT40, 11ac_VHT40) 5 530 MHz ~ 5 690 MHz (Band 2C: 11ac_VHT80) 5 745 MHz ~ 5 825 MHz (Band 3: 11a/n_HT20, 11ac_VHT20) 5 755 MHz ~ 5 795 MHz (Band 3: 11n_HT40, 11ac_VHT40) 5 775 MHz (Band 3: 11ac_VHT80)				
Modulation Technique	OFDM				
Number of Channels	4 channels (Band 1: 11a/n_HT20, 11ac_VHT20) 2 channels (Band 1: 11n_HT40, 11ac_VHT40) 1 channel (Band 1: 11ac_VHT80) 4 channels (Band 2A: 11a/n_HT20, 11ac_VHT20) 2 channels (Band 2A: 11n_HT40, 11ac_VHT40) 1 channel (Band 2A: 11ac_VHT80) 9 channels (Band 2C: 11a/n_HT20, 11ac_VHT20) 4 channels (Band 2C: 11n_HT40, 11ac_VHT40) 2 channels (Band 2C: 11ac_VHT80) 5 channels (Band 3: 11a/n_HT20, 11ac_VHT20) 2 channels (Band 3: 11n_HT40, 11ac_VHT40) 1 channel (Band 3: 11ac_VHT80)				
Antenna Type	Ant. 1: Pattern	Ant. 2: Pattern	Ant. 3: Chip	Ant. 4: Pattern	
Antenna Gain [※]	Frequency range	Ant. 1	Ant. 2	Ant. 3	Ant. 4
	5 150 MHz ~ 5 250 MHz	6.46 dB i	6.43 dB i	2.20 dB i	5.00 dB i
	5 250 MHz ~ 5 350 MHz	5.73 dB i	5.84 dB i	2.20 dB i	5.00 dB i
	5 470 MHz ~ 5 725 MHz	6.86 dB i	5.21 dB i	1.90 dB i	5.00 dB i
	5 725 MHz ~ 5 850 MHz	5.67 dB i	4.29 dB i	2.40 dB i	5.00 dB i
H/W Version	Rev. C3				
S/W Version	v010.038.045				
FVIN	N/A				

1.5. Declaration by the Manufacturer

- The EUT has four ports (Port1, Port 2, Port 3 and Port 4).
- WLAN 5G transmits both SISO and MIMO mode.
- The EUT is a slave without radar detection.
- The EUT is not supported TDWR(5.6 - 5.65 GHz) band.

1.6. Automatically Discontinue Transmission

1.6.1. Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operating failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

1.6.2. Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

1.7. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMA100B	106887	Oct. 06, 2023	Annual	Oct. 06, 2024
Spectrum Analyzer	R&S	FSV30	103453	Oct. 31, 2023	Annual	Oct. 31, 2024
Spectrum Analyzer	Agilent	N9020A	MY53421758	Sep. 10, 2024	Annual	Sep. 10, 2025
Spectrum Analyzer	Agilent	N9030A	US51350132	Nov. 27, 2023	Annual	Nov. 27, 2024
Power Meter	Anritsu	ML2495A	1223004	May 29, 2024	Annual	May 29, 2025
Power Sensor	Anritsu	MA2411B	1207272	May 29, 2024	Annual	May 29, 2025
Attenuator	AEROFLEX / INMET	40AH2W-10	40G-1	Jun. 19, 2024	Annual	Jun. 19, 2025
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Feb. 07, 2024	Annual	Feb. 07, 2025
Low Pass Filter	WT MICROWAVE INC	WT-A1700-LS	WT151207001	Apr. 08, 2024	Annual	Apr. 08, 2025
High Pass Filter	Wainwright Instrument GmbH	WHKX6.0/18G-10SS	51	Jul. 26, 2024	Annual	Jul. 26, 2025
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	15	Jun. 07, 2024	Annual	Jun. 07, 2025
DC Power Supply	R&S	HMP2020	022802107	Oct. 31, 2023	Annual	Oct. 31, 2024
Preamplifier	H.P.	8447F	2944A03909	Aug. 09, 2024	Annual	Aug. 09, 2025
Signal Conditioning Unit	R&S	SCU-18F	101058	Dec. 07, 2023	Annual	Dec. 07, 2024
Preamplifier	TESTEK	JS44-18004000-35-8P	1546891	Oct. 06, 2023	Annual	Oct. 06, 2024
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 21, 2023	Biennial	Aug. 21, 2025
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	9163-396	Apr. 02, 2024	Biennial	Apr. 02, 2026
Horn Antenna	R&S	HF906	100326	Feb. 19, 2024	Annual	Feb. 19, 2025
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	BBHA9170223	Oct. 10, 2023	Annual	Oct. 10, 2024
Test Receiver	R&S	ESU26	100109	Jan. 16, 2024	Annual	Jan. 16, 2025
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/3 8330516/L	N.C.R.	N/A	N.C.R.
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/3 8330516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	RFONE	NMST-13A26-NMST-5 m	TPC24021900 04	Apr. 03, 2024	Semi-Annual	Oct. 03, 2024
Coaxial Cable	Qualwave Inc.	NMST-13A26-NMST-10 m	TPC24021900 01	Apr. 03, 2024	Semi-Annual	Oct. 03, 2024
Coaxial Cable	RFONE	PL360P-292M292M-1.5M-A	20200324002	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024

Note;

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

1.8. Summary of Test Result

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart E, IC RSS-247 Issue 3, RSS-Gen Issue 5			
Section in FCC	Section in IC	Test Item(s)	Result
15.205(a) 15.209(a) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4)	RSS-Gen Issue 5 8.9 RSS-247 Issue 3 6.2.1.2 RSS-247 Issue 3 6.2.2.2 RSS-247 Issue 3 6.2.3.2 RSS-247 Issue 3 6.2.4.3	Transmitter Radiated Spurious Emissions	Complied
15.407(a)	RSS-Gen Issue 5 6.7	26 dB Bandwidth & 99 % Bandwidth	Complied
15.407(e)	RSS-247 Issue 3 6.2.4.2	6 dB Bandwidth	Complied
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RSS-247 Issue 3 6.2.1.1 RSS-247 Issue 3 6.2.2.1 RSS-247 Issue 3 6.2.3.1 RSS-247 Issue 3 6.2.4.2	Maximum Conducted Output Power	Complied
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RSS-247 Issue 3 6.2.1.1 RSS-247 Issue 3 6.2.2.1 RSS-247 Issue 3 6.2.3.1 RSS-247 Issue 3 6.2.4.2	Maximum Power Spectral Density	Complied
15.207	RSS-Gen Issue 5 8.8	AC Power Line Conducted Emission	N/A ¹⁾

Note;

- 1) The AC power line test was not performed because the EUT use battery power for operation and which do not operate from the AC power lines.

1.9. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 were used in the measurement of the DUT.

1.10. Sample Calculation

Where relevant, the following sample calculation is provided:

1.10.1. Conducted Test

Offset value (dB) = Attenuator (dB) + Cable loss (dB)

1.10.2. Radiation Test

Field strength level (dB μ V/m)

= Measured level (dB μ V) + Antenna factor (dB/m) + Cable loss (dB) - Amplifier gain (dB)

1.11. Information of Software for test

- Using the software of MobaXterm v23.6 to test for the WLAN.

1.12. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
Maximum Conducted Output Power	0.34 dB	
Maximum Power Spectral Density	0.65 dB	
99 % Bandwidth	0.03 MHz	
26 dB Bandwidth	0.03 MHz	
6 dB Bandwidth	0.06 MHz	
Radiated Emission, 9 kHz to 30 MHz	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 GHz	H	4.60 dB
	V	4.90 dB
Radiated Emission, above 1 GHz	H	3.90 dB
	V	3.80 dB

All measurement uncertainty values are shown with a coverage factor $k = 2$ to indicate a 95 % level of confidence

1.13. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL005441	2024.09.20	Initial

1.14. Information of Variant Models

Model Names	*Installation capability on PCB	GNSS	WiFi / BLE	Backup Battery	Model Remark
TFBMEIBN3EU	O	O	O	O	Basic Model
TFBMNINN0EN	X	O	O	X	Variant Model
TFBMEIBN3FR	O	O	O	O	

*Cellular Antennas are mounted on TFBMEIBN3EU, TFBMNINN0EN, TFBMEIBN3FR

O: Popped

X: De-Popped

Note;

All test items performed with basic model

1.15. Device Capabilities

Mode	SISO				CDD / MIMO		
	Port 1	Port 2	Port 3	Port 4	Port 1 + 2	Port 1 + 3	Port 1 + 4
Bluetooth Low Energy	O	X	X	X	X	X	X
WLAN 2 GHz	X	X	O	O	O	O	O
WLAN 5 GHz	X	X	O	O	O	O	O
WLAN 6 GHz	X	X	O	X	O	O	X

Note;

The EUT has four ports and all ports transmit by one WLAN module.

11b mode is transmit only SISO in Port 3 and Port 4.

The Port 1 passes directly through the module and Port 2, Port 3 and Port 4 are distributed through the switch end.

All the conducted test were performed at the point of before the switch as the worst case.

Mode	Measurement point			
	Highest Output Power (dBm)			
	Before switch	End of Port 2	End of Port 3	End of Port 4
11a	<u>2.27</u>	0.95	0.21	0.89
11n_HT20/11ac_VHT20	<u>2.12</u>	0.55	0.11	0.89
11n_HT40/11ac_VHT40	<u>2.83</u>	-0.15	-1.01	0.45
11ac_VHT80	<u>1.26</u>	0.28	-0.95	0.95

1.16. Worst-Case Configuration and Test Mode

Ant. Port	Mode	Frequency (MHz)	Average Power (dBm)
SISO	11n_HT20	5 745	<u>5.11</u>
	11ac_VHT20		5.08
	11n_HT40	5 755	<u>5.29</u>
	11ac_VHT40		5.28
MIMO	11n_HT20	5 745	<u>4.33</u>
	11ac_VHT20		4.28
	11n_HT40	5 755	<u>4.98</u>
	11ac_VHT40		4.96

Mode	Ant. Port	Bandwidth (MHz)	Data rate with highest output power
11a	SISO	20	6 Mbps
11n_HT20		20	MCS0
11n_HT40		40	MCS0
11ac_VHT80		80	MCS0
11a	MIMO	20	6 Mbps
11n_HT20		20	MCS0
11n_HT40		40	MCS0
11ac_VHT80		80	MCS0

*For duplicate test items among 802.11n_HT20, HT40, 802.11ac_VHT20 and VHT40 mode, the test mode with the highest power level was tested.

Radiated emission below 1 GHz was performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Radiated emission above 1 GHz was performed with the EUT set to transmit Low/Middle/High Channels.

Conducted tests were performed with the EUT set to transmit Low/Middle/High channels with highest output power.

1.17. Duty Cycle of EUT

Regarding to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, II.B, the maximum duty cycles of all modes were investigated and set the spectrum analyzer as below.
Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value, Set VBW $\geq$ RBW.
Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100.

Antenna	Mode	Data Rate	Duty Cycle (%)	Correction Factor (dB)
SISO	11a	6 Mbps	99.06	-
	11n_HT20	MCS0	99.71	-
	11ac_VHT40	MCS0	99.71	-
	11ac_VHT80	MCS0	99.71	-
MIMO	11a	6 Mbps	98.35	-
	11n_HT20	MCS0	98.19	-
	11ac_VHT40	MCS0	98.79	-
	11ac_VHT80	MCS0	98.79	-

Remark;

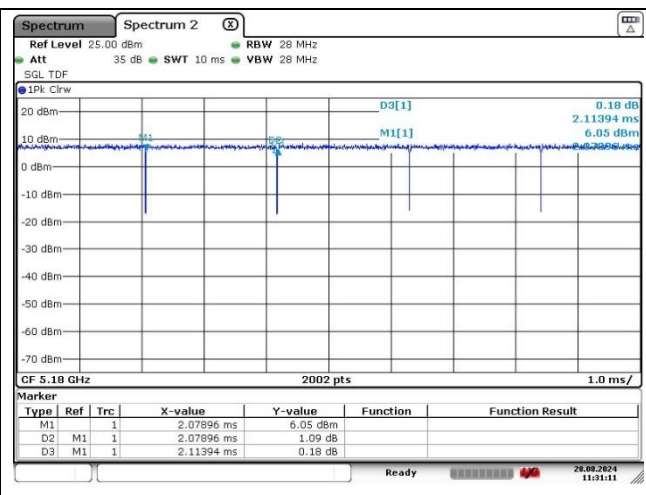
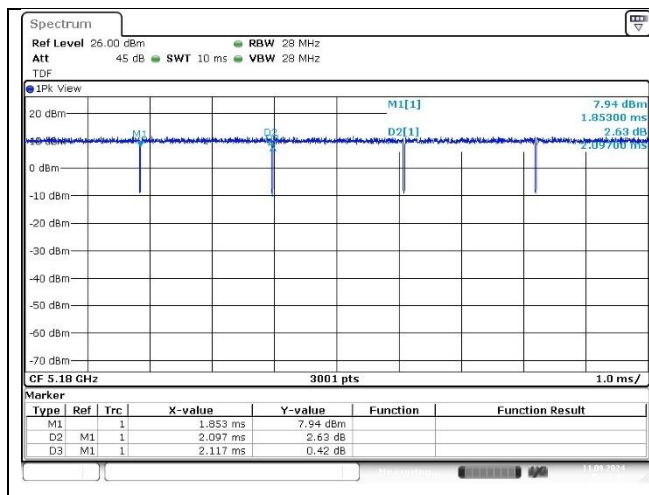
1. As measured duty cycles of EUT, all of mode and data rate keep constant period and are converted to log scale (power averaging) to compensate correction factor to result of average test items.
2. Duty Cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction Factor (dB) = 10 log (1 / Duty Cycle)
4. Duty cycle is over 98 %, compensation is no required.

- Test plots

11a

SISO

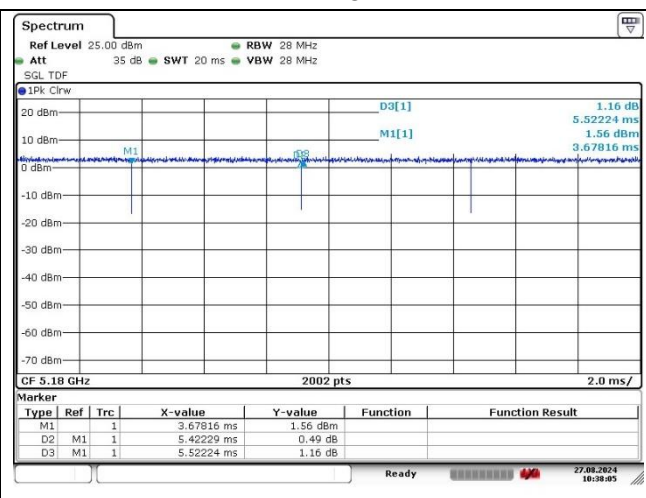
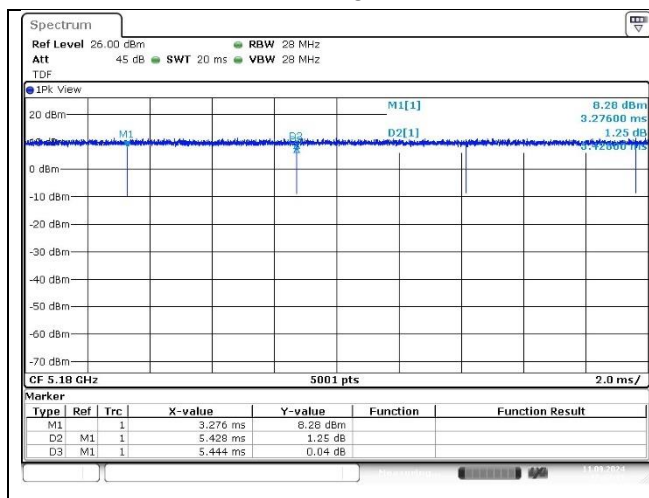
MIMO



11n_HT20

SISO

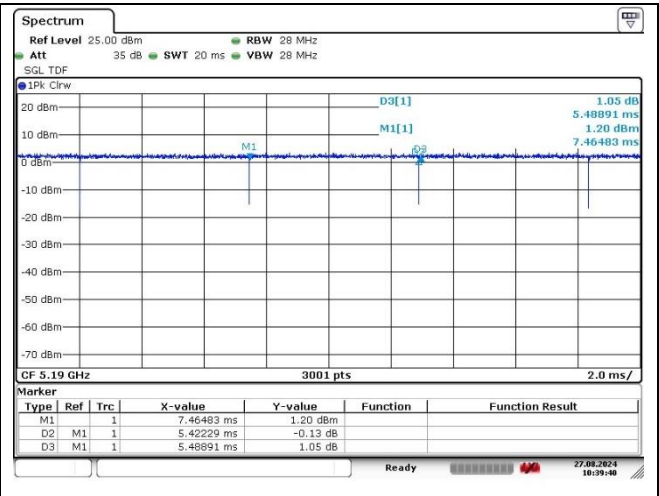
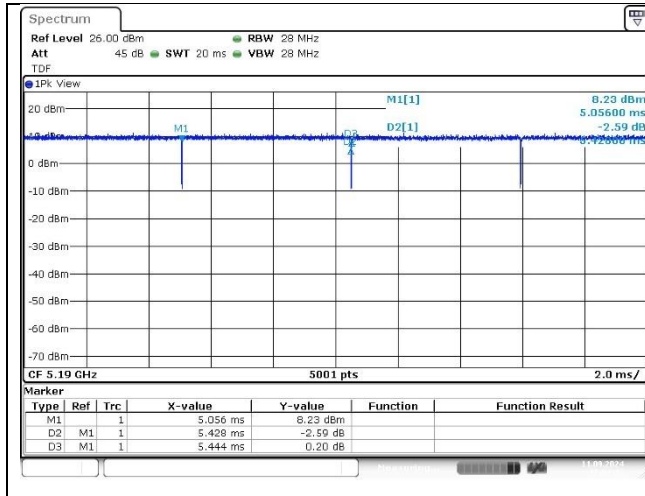
MIMO



11n_HT40

SISO

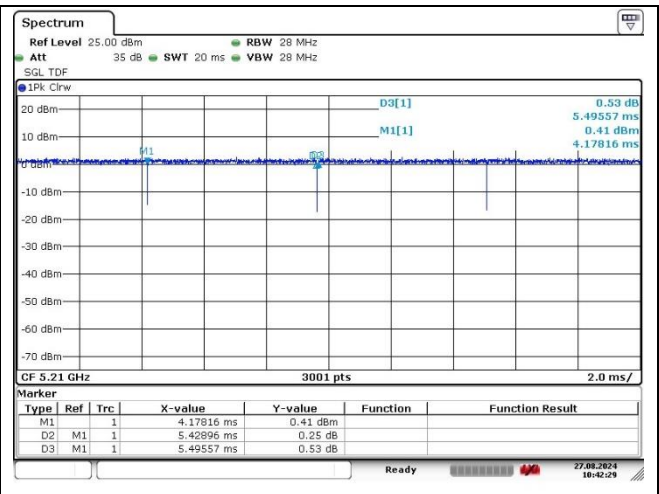
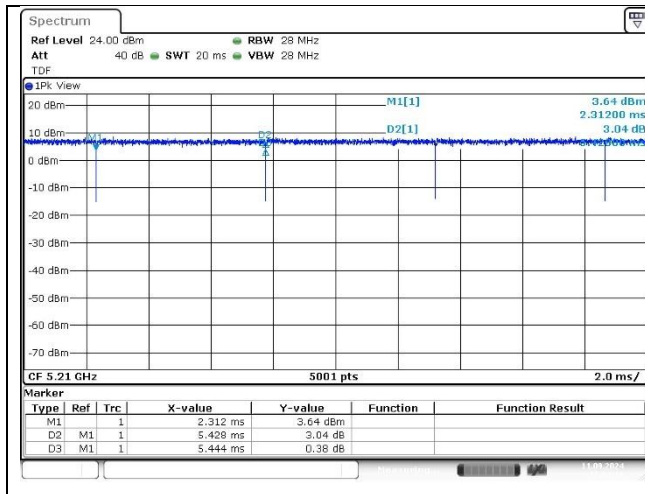
MIMO



11ac_VHT80

SISO

MIMO

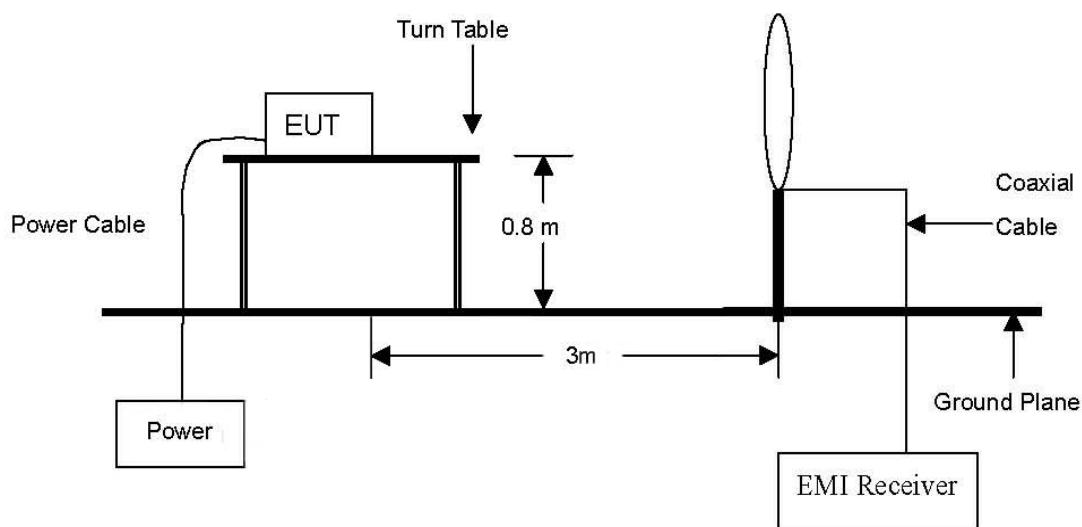


2. Transmitter Radiated Spurious Emissions

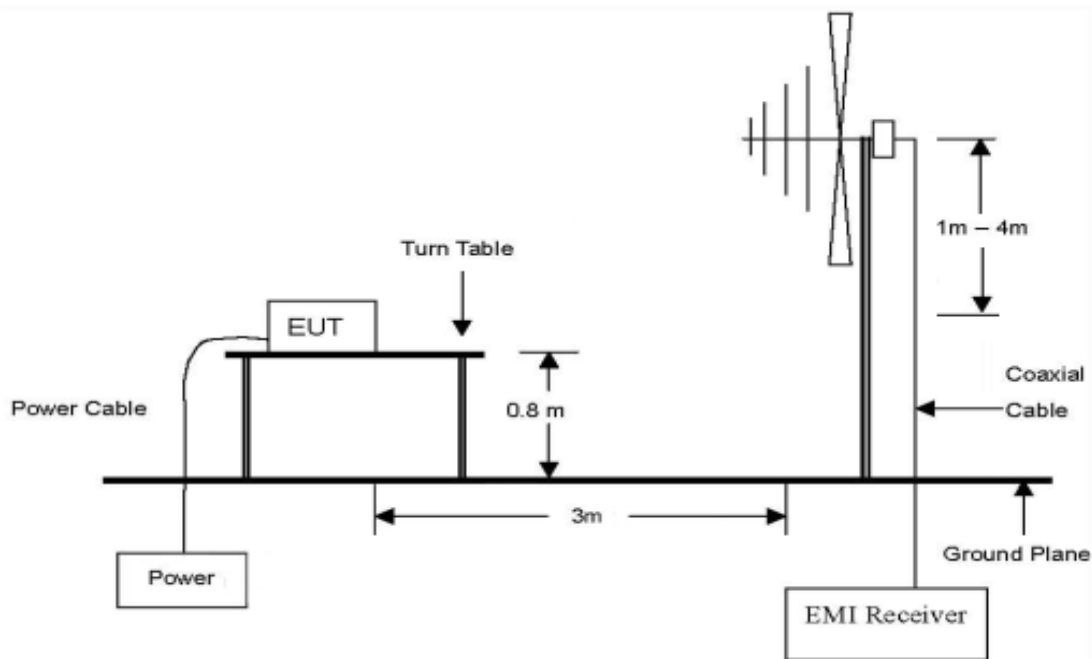
2.1. Test Setup

2.1.1. Transmitter radiated spurious emissions

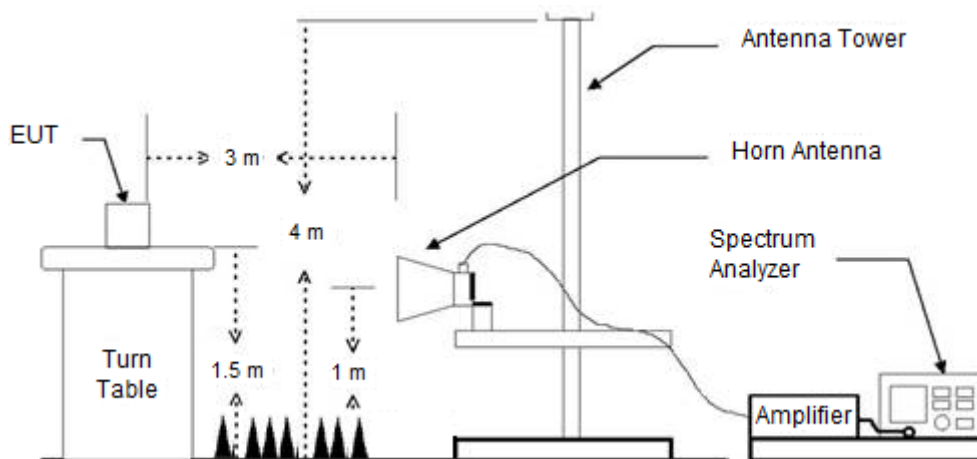
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated from 1 GHz to the 10th harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.



2.2. Limit

2.2.1. FCC

According to § 15.407(b)

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dB m/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dB m/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dB m/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dB m/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dB m/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dB m/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dB m/MHz at the band edge.

According to § 15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (Meters)
0.009-0.490	2 400/F(kHz)	300
0.490-1.705	24 000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

2.2.2. IC

According to RSS-247 Issue 3,

6.2.1.2 Frequency band 5 150-5 250 MHz

For transmitters with operating frequencies in the band 5 150-5 250 MHz, all emissions outside the band 5 150-5 350 MHz shall not exceed -27 dB m/MHz e.i.r.p. Any unwanted emissions that fall into the band 5 250-5 350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5 % of the occupied bandwidth (i.e. 99% bandwidth), above 5 250 MHz. The 26 dB bandwidth may fall into the 5 250-5 350 MHz band; however, if the occupied bandwidth also falls within the 5 250- 5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5 250-5 350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5 250-5 350 MHz band.

6.2.2.2 Frequency band 5 250-5 350 MHz

Devices shall comply with the following:

a) All emissions outside the band 5 250-5 350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or

b) All emissions outside the band 5 150-5 350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and its power shall comply with the spectral power density for operation within the band 5 150-5 250 MHz. The device, except devices installed in vehicles, shall be labelled or include in the user manual the following text “for indoor use only.”

6.2.3.2 Frequency band 5 470-5 600 MHz and 5 650-5 725 MHz

Emissions outside the band 5 470-5 725 MHz shall not exceed -27 dB m/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5 725 MHz can meet the emission limit of -27 dB m/MHz e.i.r.p. at 5 850 MHz instead of 5 725 MHz.

6.2.4.3 Frequency band 5 725-5 850 MHz

Devices operating in the band 5 725-5 850 MHz shall have comply with the following e.i.r.p. spectral density limits:

a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;

b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;

c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and

d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

2.3. Test Procedures

Radiated spurious emissions from the EUT were measured according to the dictates in section G of KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI C63.10-2013.

2.3.1. Test Procedures for emission below 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from above 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site below 1 GHz and 1.5 meter above the ground at a 3 meter anechoic chamber test site above 1 GHz. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. For measurements below 1 GHz resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements Above 1 GHz resolution bandwidth is set to 1 MHz, the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

- II.G.4. Unwanted emissions measurements below 1 GHz.

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

- II.G.5. Unwanted maximum emissions measurements above 1 GHz.

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

Set to RBW = 1 MHz, VBW ≥ 3 MHz, Detector = Peak, Sweep time = auto, Trace mode = Max hold.

- II.G.6. Average unwanted emissions measurements above 1 GHz.

Set to RBW = 1 MHz, VBW ≥ 3 MHz, Detector = power averaging (rms), Averaging type = power averaging (rms), Sweep time = auto, Perform a trace average of at least 100 traces. If the transmission is continuous, If the transmission is not continuous, the number of traces shall be increased by a factor of 1/x, where x is the duty cycle. For example, with 50 % duty cycle, at least 200 traces shall be averaged.

If tests are performed with the EUT transmitting at a duty cycle less than 98 %, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 % duty cycle. The correction factor is computed as follows:

- If power averaging (rms) mode was used in II.G.6.c)(iv), the correction factor is $10 \log (1 / x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50 %, then 3 dB must be added to the measured emission levels.

- The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z described in the test setup photo. All radiated testing of EUT was performed with worst case axis.

2.4. Test Result

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

2.4.1. Radiated Spurious Emission below 1 000 MHz

The frequency spectrum from 9 kHz to 1 000 MHz was investigated. All reading values are peak values.

- SISO

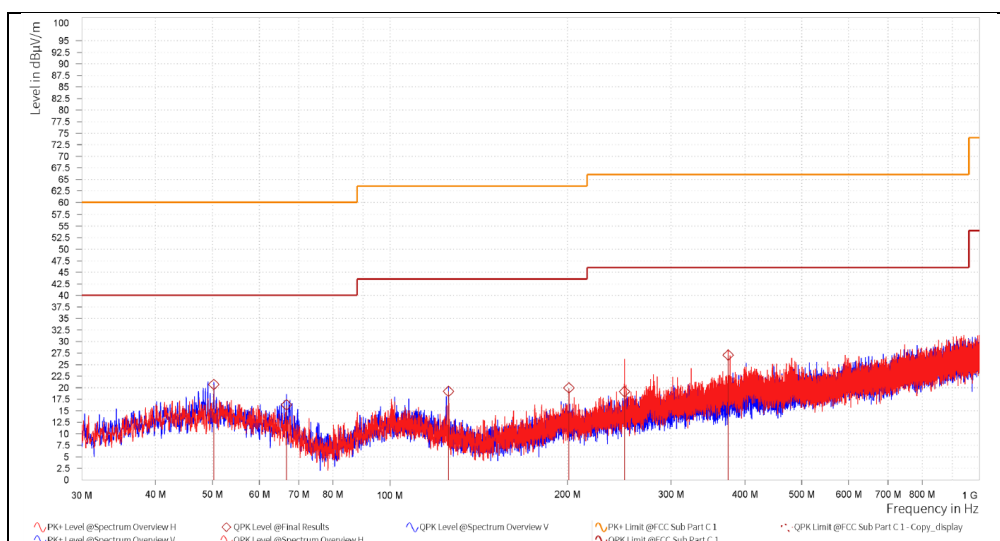
Ant. 3

Radiated Emissions			Ant	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
50.27	27.91	Quasi Peak	V	-7.25	20.66	40.00	19.34
374.96	31.77	Quasi Peak	H	-4.72	27.05	46.00	18.95
Above 400.00	Not detected	-	-	-	-	-	-

Remark;

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 GHz.
2. Test from 30 MHz to 1 000 MHz was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
3. Reported spurious emissions are in **11a (Band 3) / 6 Mbps / Low channel** as worst case among other modes.
4. Radiated spurious emission measurement as below.
 (Actual = Reading + Correction)
 (Correction = Antenna Factor + AMP Factor + Cable Loss)
5. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

- Test plot



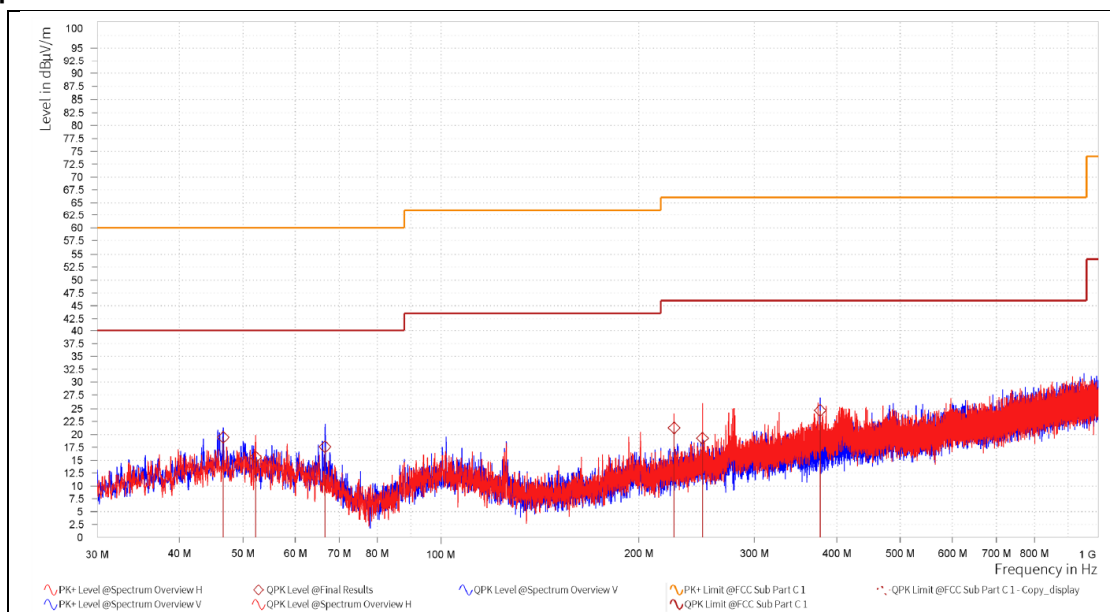
Ant. 4

Radiated Emissions			Ant	Correction	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	(dB/m)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
40.65	26.64	Quasi Peak	V	-7.22	19.42	40.00	20.58
Above 100.00	Not detected	-	-	-	-	-	-

Remark;

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 GHz.
2. Test from 30 MHz to 1 000 MHz was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
3. Reported spurious emissions are in **11a (Band 3) / 6 Mbps / Low channel** as worst case among other modes.
4. Radiated spurious emission measurement as below.
 (Actual = Reading + Correction)
 (Correction = Antenna Factor + AMP Factor + Cable Loss)
5. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

- Test plot



- MIMO(CDD)

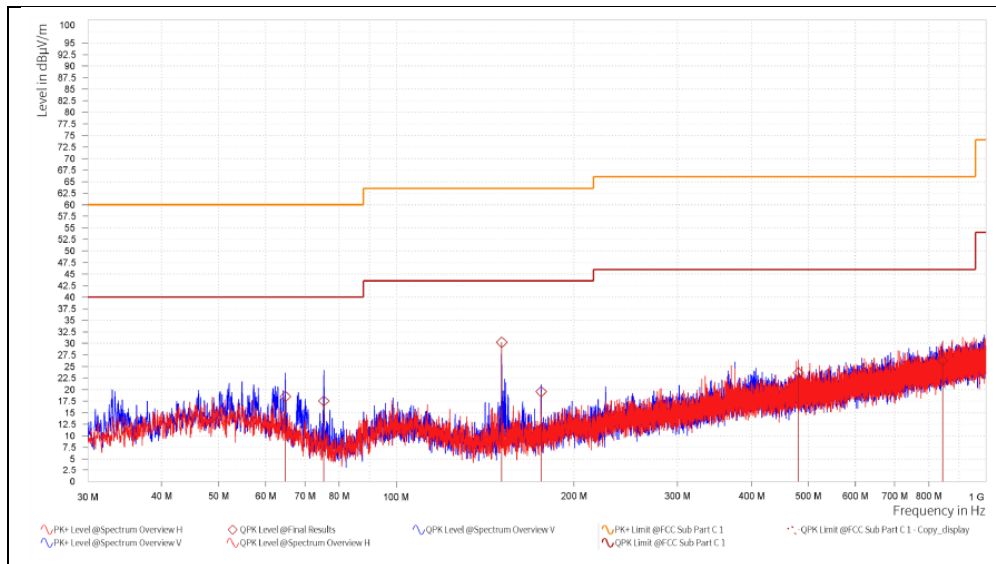
Ant. 1 + Ant. 2

Radiated Emissions			Ant	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
150.96	42.63	Quasi Peak	V	-12.42	30.21	43.50	13.29
843.70	23.77	Quasi Peak	H	2.49	26.26	46.00	19.74
Above 900.00	Not detected	-	-	-	-	-	-

Remark;

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 GHz.
2. Test from 30 MHz to 1 000 MHz was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
3. Reported spurious emissions are in **11n HT40 (Band 3) / MCS0 / Low channel** as worst case among other modes.
4. Radiated spurious emission measurement as below.
 (Actual = Reading + Correction)
 (Correction = Antenna Factor + AMP Factor + Cable Loss)
5. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

- Test plot



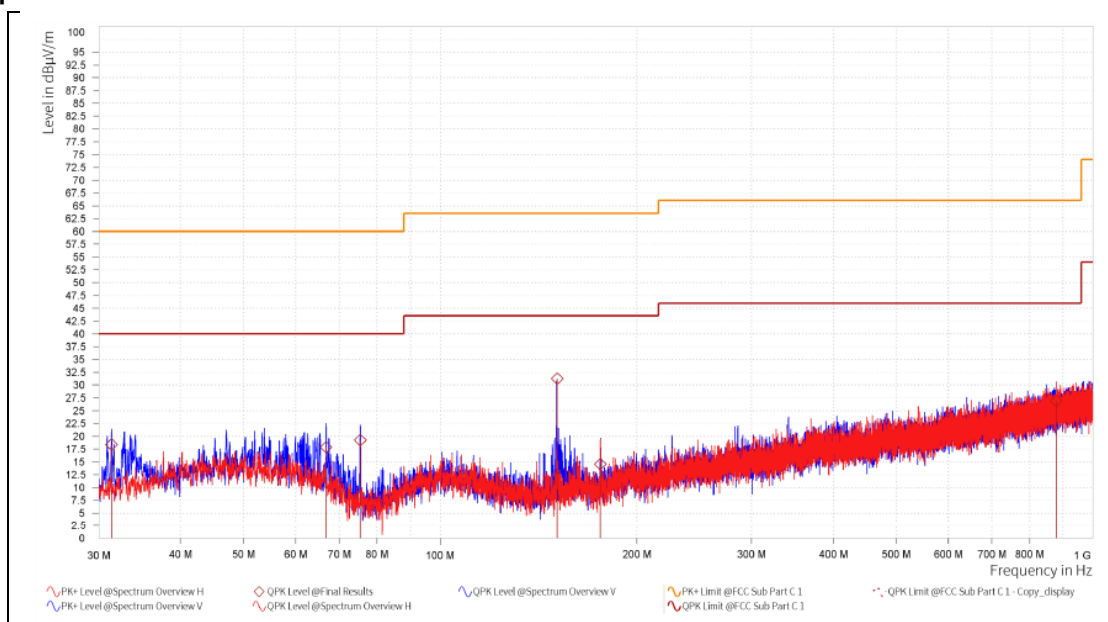
Ant. 1 + Ant. 3

Radiated Emissions			Ant	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
151.06	43.66	Quasi Peak	V	-12.42	31.24	43.50	12.26
878.69	23.77	Quasi Peak	H	3.11	26.88	46.00	19.12
Above 900.00	Not detected	-	-	-	-	-	-

Remark;

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 GHz.
2. Test from 30 MHz to 1 000 MHz was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
3. Reported spurious emissions are in **11n HT40 (Band 3) / MCS0 / Low channel** as worst case among other modes.
4. Radiated spurious emission measurement as below.
 (Actual = Reading + Correction)
 (Correction = Antenna Factor + AMP Factor + Cable Loss)
5. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

- Test plot



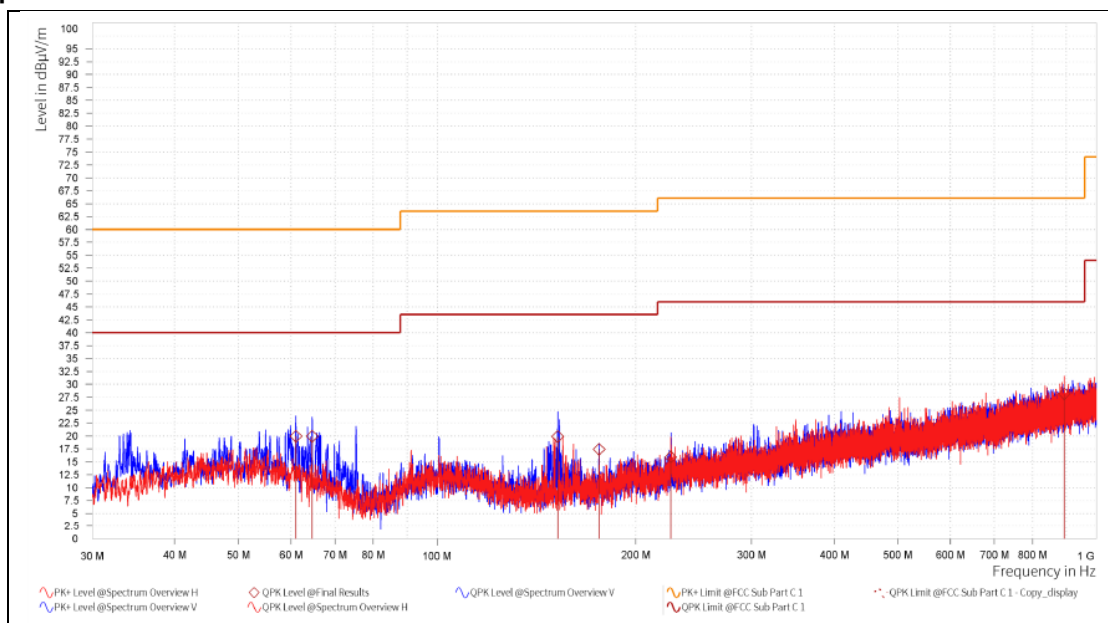
Ant. 1 + Ant. 4

Radiated Emissions			Ant	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
893.27	24.86	Quasi Peak	H	3.26	28.12	46.00	17.88
Above 900.00	Not detected	-	-	-	-	-	-

Remark;

1. Spurious emissions for all channels and modes were investigated and almost the same below 1 GHz.
2. Test from 30 MHz to 1 000 MHz was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
3. Reported spurious emissions are in **11n HT40 (Band 3) / MCS0 / Low channel** as worst case among other modes.
4. Radiated spurious emission measurement as below.
 (Actual = Reading + Correction)
 (Correction = Antenna Factor + AMP Factor + Cable Loss)
5. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

- Test plot



2.4.2. Radiated Spurious Emission above 1 000 MHz

- SISO

Ant. 3

11a (Band 1)

A. Low Channel (5 180 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*4 500.00	19.25	Peak	V	32.00	8.52	59.77	74.00	14.23
*4 500.00	5.83	Average	V	32.00	8.52	46.35	54.00	7.65
*4 523.47	21.04	Peak	V	32.00	8.54	61.58	74.00	12.42
*4 713.07	6.45	Average	V	32.33	8.72	47.50	54.00	6.50
*5 150.00	18.18	Peak	V	33.60	9.16	60.94	74.00	13.06
*5 150.00	5.54	Average	V	33.60	9.16	48.30	54.00	5.70

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 220 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 240 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11a (Band 2A)

A. Low Channel (5 260 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 300 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 320 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	13.86	Peak	V	34.00	9.38	57.24	74.00	16.76
*5 350.00	5.44	Average	V	34.00	9.38	48.82	54.00	5.18
*5 373.76	16.01	Peak	V	34.05	9.40	59.46	74.00	14.54
*5 413.12	5.35	Average	V	34.07	9.38	48.80	54.00	5.20
*5 460.00	13.65	Peak	V	34.00	9.50	57.15	74.00	16.85
*5 460.00	5.44	Average	V	34.00	9.50	48.94	54.00	5.06

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11a (Band 2C)

A. Low Channel (5 500 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	12.62	Peak	V	34.00	9.38	56.00	74.00	18.00
*5 350.00	4.58	Average	V	34.00	9.38	47.96	54.00	6.04
*5 400.85	15.87	Peak	V	34.10	9.39	59.36	74.00	14.64
*5 388.89	5.82	Average	V	34.08	9.40	49.30	54.00	4.70
*5 460.00	14.27	Peak	V	34.00	9.50	57.77	74.00	16.23
*5 460.00	4.99	Average	V	34.00	9.50	48.49	54.00	5.51

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 580 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 700 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 725.00	12.35	Peak	V	34.05	9.79	56.19	68.23	12.04
5 751.70	16.29	Peak	V	34.01	9.76	60.06	68.23	8.17

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11a (Band 3)

A. Low Channel (5 745 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 649.29	16.15	Peak	V	34.10	9.71	59.96	68.23	8.27
5 662.73	15.70	Peak	V	34.10	9.72	59.52	77.65	18.13
5 710.91	14.95	Peak	V	34.12	9.75	58.82	108.28	49.46
5 721.16	14.66	Peak	V	34.14	9.78	58.58	113.47	54.89

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 785 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 825 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 852.18	15.01	Peak	V	34.40	9.92	59.33	117.26	57.93
5 857.24	15.42	Peak	V	34.41	9.91	59.74	110.20	50.46
5 903.93	16.67	Peak	V	34.51	9.88	61.06	83.82	22.76
5 949.01	15.80	Peak	V	34.60	9.96	60.36	68.23	7.87

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT20 (Band 1)

A. Low Channel (5 180 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*4 500.00	15.04	Peak	V	32.00	8.52	55.56	74.00	18.44
*4 500.00	6.35	Average	V	32.00	8.52	46.87	54.00	7.13
*4 707.54	16.81	Peak	V	32.32	8.71	57.84	74.00	16.16
*4 731.24	6.46	Average	V	32.36	8.74	47.56	54.00	6.44
*5 150.00	14.31	Peak	V	33.60	9.16	57.07	74.00	16.93
*5 150.00	5.14	Average	V	33.60	9.16	47.90	54.00	6.10

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 220 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 240 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT20 (Band 2A)

A. Low Channel (5 260 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 300 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 320 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*5 350.00	14.78	Peak	V	34.00	9.38	58.16	74.00	15.84
*5 350.00	5.09	Average	V	34.00	9.38	48.47	54.00	5.53
*5 404.24	16.08	Peak	V	34.09	9.39	59.56	74.00	14.44
*5 407.84	5.74	Average	V	34.08	9.39	49.21	54.00	4.79
*5 460.00	12.74	Peak	V	34.00	9.50	56.24	74.00	17.76
*5 460.00	4.82	Average	V	34.00	9.50	48.32	54.00	5.68

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT20 (Band 2C)

A. Low Channel (5 500 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	13.15	Peak	V	34.00	9.38	56.53	74.00	17.47
*5 350.00	4.83	Average	V	34.00	9.38	48.21	54.00	5.79
*5 449.21	15.75	Peak	V	34.00	9.48	59.23	74.00	14.77
*5 415.93	6.09	Average	V	34.07	9.38	49.54	54.00	4.46
*5 460.00	14.15	Peak	V	34.00	9.50	57.65	74.00	16.35
*5 460.00	4.32	Average	V	34.00	9.50	47.82	54.00	6.18

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 580 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 700 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 725.00	13.79	Peak	V	34.05	9.79	57.63	68.23	10.60
5 750.35	16.51	Peak	V	34.00	9.76	60.27	68.23	7.96

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT20 (Band 3)

A. Low Channel (5 745 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 606.24	16.83	Peak	V	34.10	9.63	60.56	68.23	7.67
5 672.57	16.49	Peak	V	34.10	9.72	60.31	84.93	24.62
5 705.17	15.88	Peak	V	34.11	9.73	59.72	106.68	46.96
5 722.39	14.78	Peak	V	34.14	9.78	58.70	116.28	57.58

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 785 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 825 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 854.25	15.35	Peak	V	34.41	9.91	59.67	112.54	52.87
5 869.66	15.23	Peak	V	34.44	9.87	59.54	106.72	47.18
5 906.69	16.25	Peak	V	34.51	9.88	60.64	81.78	21.14
5 945.10	15.97	Peak	V	34.59	9.95	60.51	68.23	7.72

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT40 (Band 1)

A. Low Channel (5 190 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*4 500.00	15.55	Peak	V	32.00	8.52	56.07	74.00	17.93
*4 500.00	5.57	Average	V	32.00	8.52	46.09	54.00	7.91
*4 706.75	16.88	Peak	V	32.31	8.71	57.90	74.00	16.10
*4 709.12	6.37	Average	V	32.32	8.71	47.40	54.00	6.60
*5 150.00	13.46	Peak	V	33.60	9.16	56.22	74.00	17.78
*5 150.00	4.74	Average	V	33.60	9.16	47.50	54.00	6.50

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. High Channel (5 230 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT40 (Band 2A)

A. Low Channel (5 270 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. High Channel (5 310 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*5 350.00	14.16	Peak	V	34.00	9.38	57.54	74.00	16.46
*5 350.00	4.69	Average	V	34.00	9.38	48.07	54.00	5.93
*5 361.52	15.95	Peak	V	34.02	9.39	59.36	74.00	14.64
*5 425.84	5.77	Average	V	34.05	9.38	49.20	54.00	4.80
*5 460.00	13.10	Peak	V	34.00	9.50	56.60	74.00	17.40
*5 460.00	4.88	Average	V	34.00	9.50	48.38	54.00	5.62

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT40 (Band 2C)

A. Low Channel (5 510 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*5 350.00	13.06	Peak	V	34.00	9.38	56.44	74.00	17.56
*5 350.00	5.31	Average	V	34.00	9.38	48.69	54.00	5.31
*5 360.81	16.82	Peak	V	34.02	9.39	60.23	74.00	13.77
*5 434.13	6.26	Average	V	34.03	9.42	49.71	54.00	4.29
*5 460.00	14.22	Peak	V	34.00	9.50	57.72	74.00	16.28
*5 460.00	5.19	Average	V	34.00	9.50	48.69	54.00	5.31

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 550 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 670 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 725.00	14.10	Peak	V	34.05	9.79	57.94	68.23	10.29
5 761.00	16.43	Peak	V	34.04	9.76	60.23	68.23	8.00

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT40 (Band 3)

A. Low Channel (5 755 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 627.76	16.13	Peak	V	34.10	9.70	59.93	68.23	8.30
5 688.36	15.69	Peak	V	34.10	9.72	59.51	96.61	37.10
5 718.49	15.32	Peak	V	34.14	9.77	59.23	110.40	51.17
5 721.36	14.59	Peak	V	34.14	9.78	58.51	113.93	55.42

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. High Channel (5 795 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 855.00	15.81	Peak	V	34.41	9.91	60.13	110.83	50.70
5 872.19	16.48	Peak	V	34.44	9.86	60.78	106.01	45.23
5 897.03	16.32	Peak	V	34.49	9.87	60.68	88.93	28.25
5 926.01	16.80	Peak	V	34.55	9.91	61.26	68.23	6.97

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11ac_VHT80 (Band 1)

A. Middle Channel (5 210 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*4 500.00	13.64	Peak	V	32.00	8.52	54.16	74.00	19.84
*4 500.00	5.58	Average	V	32.00	8.52	46.10	54.00	7.90
*4 928.63	16.40	Peak	V	33.21	8.97	58.58	74.00	15.42
*4 707.50	6.81	Average	V	32.32	8.71	47.84	54.00	6.16
*5 150.00	12.96	Peak	V	33.60	9.16	55.72	74.00	18.28
*5 150.00	5.07	Average	V	33.60	9.16	47.83	54.00	6.17

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11ac_VHT80 (Band 2A)

A. Middle Channel (5 290 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	13.90	Peak	V	34.00	9.38	57.28	74.00	16.72
*5 350.00	5.05	Average	V	34.00	9.38	48.43	54.00	5.57
*5 421.33	16.64	Peak	V	34.06	9.38	60.08	74.00	13.92
*5 432.29	5.74	Average	V	34.04	9.41	49.19	54.00	4.81
*5 460.00	13.90	Peak	V	34.00	9.50	57.40	74.00	16.60
*5 460.00	5.21	Average	V	34.00	9.50	48.71	54.00	5.29

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11ac_VHT80 (Band 2C)

A. Low Channel (5 530 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	14.54	Peak	V	34.00	9.38	57.92	74.00	16.08
*5 350.00	5.09	Average	V	34.00	9.38	48.47	54.00	5.53
*5 390.12	16.48	Peak	V	34.08	9.39	59.95	74.00	14.05
*5 447.63	5.78	Average	V	34.00	9.47	49.25	54.00	4.75
*5 460.00	13.44	Peak	V	34.00	9.50	56.94	74.00	17.06
*5 460.00	4.77	Average	V	34.00	9.50	48.27	54.00	5.73

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11ac_VHT80 (Band 3)

A. Middle Channel (5 775 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 645.39	15.58	Peak	V	34.10	9.71	59.39	68.23	8.84
5 657.83	16.22	Peak	V	34.10	9.71	60.03	74.02	13.99
5 701.72	15.75	Peak	V	34.10	9.73	59.58	105.71	46.13
5 723.08	15.17	Peak	V	34.15	9.78	59.10	117.85	58.75
5 851.19	15.02	Peak	V	34.40	9.92	59.34	119.51	60.17
5 863.62	15.92	Peak	V	34.43	9.89	60.24	108.41	48.17
5 884.78	15.41	Peak	V	34.47	9.86	59.74	97.99	38.25
5 938.51	15.68	Peak	V	34.58	9.94	60.20	68.23	8.03

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

Ant. 4

11a (Band 1)

A. Low Channel (5 180 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*4 500.00	14.76	Peak	V	32.00	8.52	55.28	74.00	18.72
*4 500.00	5.43	Average	V	32.00	8.52	45.95	54.00	8.05
*4 717.27	16.63	Peak	V	32.33	8.72	57.68	74.00	16.32
*4 728.60	6.40	Average	V	32.36	8.74	47.50	54.00	6.50
*5 150.00	13.86	Peak	V	33.60	9.16	56.62	74.00	17.38
*5 150.00	4.71	Average	V	33.60	9.16	47.47	54.00	6.53

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 220 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 240 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11a (Band 2A)

A. Low Channel (5 260 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 300 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 320 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*5 350.00	13.81	Peak	V	34.00	9.38	57.19	74.00	16.81
*5 350.00	4.87	Average	V	34.00	9.38	48.25	54.00	5.75
*5 391.18	16.74	Peak	V	34.08	9.39	60.21	74.00	13.79
*5 392.93	5.79	Average	V	34.09	9.39	49.27	54.00	4.73
*5 460.00	12.64	Peak	V	34.00	9.50	56.14	74.00	17.86
*5 460.00	4.68	Average	V	34.00	9.50	48.18	54.00	5.82

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11a (Band 2C)

A. Low Channel (5 500 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	12.91	Peak	V	34.00	9.38	56.29	74.00	17.71
*5 350.00	4.53	Average	V	34.00	9.38	47.91	54.00	6.09
*5 387.50	16.02	Peak	V	34.08	9.40	59.50	74.00	14.50
*5 408.00	5.70	Average	V	34.08	9.39	49.17	54.00	4.83
*5 460.00	12.90	Peak	V	34.00	9.50	56.40	74.00	17.60
*5 460.00	4.84	Average	V	34.00	9.50	48.34	54.00	5.66

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 580 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 700 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 725.00	14.30	Peak	V	34.05	9.79	58.14	68.23	10.09
5 762.20	16.67	Peak	V	34.05	9.76	60.48	68.23	7.75

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11a (Band 3)

A. Low Channel (5 745 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 611.07	16.19	Peak	V	34.10	9.65	59.94	68.23	8.29
5 665.60	16.65	Peak	V	34.10	9.72	60.47	79.77	19.30
5 701.27	15.11	Peak	V	34.10	9.72	58.93	105.58	46.65
5 723.21	14.63	Peak	V	34.15	9.79	58.57	118.15	59.58

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 785 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 825 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 850.80	16.11	Peak	V	34.40	9.93	60.44	120.40	59.96
5 871.04	15.41	Peak	V	34.44	9.86	59.71	106.34	46.63
5 923.25	15.97	Peak	V	34.55	9.91	60.43	69.52	9.09
5 935.90	16.23	Peak	V	34.57	9.93	60.73	68.23	7.50

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT20 (Band 1)

A. Low Channel (5 180 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*4 500.00	14.99	Peak	V	32.00	8.52	55.51	74.00	18.49
*4 500.00	5.76	Average	V	32.00	8.52	46.28	54.00	7.72
*4 823.73	16.78	Peak	V	32.79	8.81	58.38	74.00	15.62
*4 707.46	6.75	Average	V	32.31	8.71	47.77	54.00	6.23
*5 150.00	13.09	Peak	V	33.60	9.16	55.85	74.00	18.15
*5 150.00	5.08	Average	V	33.60	9.16	47.84	54.00	6.16

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 220 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 240 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT20 (Band 2A)

A. Low Channel (5 260 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 300 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 320 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*5 350.00	13.29	Peak	V	34.00	9.38	56.67	74.00	17.33
*5 350.00	5.37	Average	V	34.00	9.38	48.75	54.00	5.25
*5 364.43	15.82	Peak	V	34.03	9.39	59.24	74.00	14.76
*5 394.18	5.74	Average	V	34.09	9.39	49.22	54.00	4.78
*5 460.00	12.31	Peak	V	34.00	9.50	55.81	74.00	18.19
*5 460.00	4.94	Average	V	34.00	9.50	48.44	54.00	5.56

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT20 (Band 2C)

A. Low Channel (5 500 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	12.61	Peak	V	34.00	9.38	55.99	74.00	18.01
*5 350.00	4.31	Average	V	34.00	9.38	47.69	54.00	6.31
*5 370.25	16.41	Peak	V	34.04	9.40	59.85	74.00	14.15
*5 420.25	5.33	Average	V	34.06	9.38	48.77	54.00	5.23
*5 460.00	15.46	Peak	V	34.00	9.50	58.96	74.00	15.04
*5 460.00	4.95	Average	V	34.00	9.50	48.45	54.00	5.55

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 580 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 700 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 725.00	14.45	Peak	V	34.05	9.79	58.29	68.23	9.94
5 742.70	16.14	Peak	V	34.01	9.77	59.92	68.23	8.31

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT20 (Band 3)

A. Low Channel (5 745 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 634.85	15.77	Peak	V	34.10	9.70	59.57	68.23	8.66
5 663.55	16.34	Peak	V	34.10	9.72	60.16	78.25	18.09
5 714.39	15.11	Peak	V	34.13	9.76	59.00	109.26	50.26
5 723.62	15.13	Peak	V	34.15	9.79	59.07	119.08	60.01

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 785 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 825 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 853.56	14.59	Peak	V	34.41	9.92	58.92	114.11	55.19
5 865.75	15.50	Peak	V	34.43	9.88	59.81	107.82	48.01
5 898.18	16.79	Peak	V	34.50	9.87	61.16	88.07	26.91
5 930.38	15.20	Peak	V	34.56	9.92	59.68	68.23	8.55

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT40 (Band 1)

A. Low Channel (5 190 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*4 500.00	12.64	Peak	V	32.00	8.52	53.16	74.00	20.84
*4 500.00	6.11	Average	V	32.00	8.52	46.63	54.00	7.37
*4 801.89	16.35	Peak	V	32.71	8.82	57.88	74.00	16.12
*4 730.13	6.42	Average	V	32.36	8.74	47.52	54.00	6.48
*5 150.00	13.26	Peak	V	33.60	9.16	56.02	74.00	17.98
*5 150.00	5.30	Average	V	33.60	9.16	48.06	54.00	5.94

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. High Channel (5 230 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT40 (Band 2A)

A. Low Channel (5 270 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. High Channel (5 310 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*5 350.00	13.34	Peak	V	34.00	9.38	56.72	74.00	17.28
*5 350.00	4.76	Average	V	34.00	9.38	48.14	54.00	5.86
*5 385.18	15.61	Peak	V	34.07	9.40	59.08	74.00	14.92
*5 371.93	5.80	Average	V	34.04	9.40	49.24	54.00	4.76
*5 460.00	14.01	Peak	V	34.00	9.50	57.51	74.00	16.49
*5 460.00	5.15	Average	V	34.00	9.50	48.65	54.00	5.35

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT40 (Band 2C)

A. Low Channel (5 510 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	13.14	Peak	V	34.00	9.38	56.52	74.00	17.48
*5 350.00	5.12	Average	V	34.00	9.38	48.50	54.00	5.50
*5 422.00	16.56	Peak	V	34.06	9.38	60.00	74.00	14.00
*5 423.00	6.11	Average	V	34.05	9.38	49.54	54.00	4.46
*5 460.00	12.40	Peak	V	34.00	9.50	55.90	74.00	18.10
*5 460.00	5.11	Average	V	34.00	9.50	48.61	54.00	5.39

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 550 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 670 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 725.00	15.97	Peak	V	34.05	9.79	59.81	68.23	8.42
5 752.00	16.58	Peak	V	34.01	9.76	60.35	68.23	7.88

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11n_HT40 (Band 3)

A. Low Channel (5 755 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 641.62	16.25	Peak	V	34.10	9.70	60.05	68.23	8.18
5 694.10	16.11	Peak	V	34.10	9.72	59.93	100.86	40.93
5 702.71	16.64	Peak	V	34.11	9.73	60.48	105.99	45.51
5 722.18	15.20	Peak	V	34.14	9.78	59.12	115.80	56.68

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. High Channel (5 795 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 854.25	14.80	Peak	V	34.41	9.91	59.12	112.54	53.42
5 868.05	14.57	Peak	V	34.44	9.87	58.88	107.17	48.29
5 897.72	15.52	Peak	V	34.50	9.87	59.89	88.41	28.52
5 971.55	14.73	Peak	V	34.64	9.96	59.33	68.47	9.14

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11ac_VHT80 (Band 1)

A. Middle Channel (5 210 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*4 500.00	14.19	Peak	V	32.00	8.52	54.71	74.00	19.29
*4 500.00	5.73	Average	V	32.00	8.52	46.25	54.00	7.75
*4 679.41	17.96	Peak	V	32.22	8.69	58.87	74.00	15.13
*4 715.64	6.51	Average	V	32.33	8.72	47.56	54.00	6.44
*5 150.00	14.63	Peak	V	33.60	9.16	57.39	74.00	16.61
*5 150.00	5.02	Average	V	33.60	9.16	47.78	54.00	6.22

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11ac_VHT80 (Band 2A)

A. Middle Channel (5 290 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	12.94	Peak	V	34.00	9.38	56.32	74.00	17.68
*5 350.00	5.08	Average	V	34.00	9.38	48.46	54.00	5.54
*5 447.68	16.81	Peak	V	34.00	9.47	60.28	74.00	13.72
*5 406.43	5.77	Average	V	34.09	9.39	49.25	54.00	4.75
*5 460.00	14.14	Peak	V	34.00	9.50	57.64	74.00	16.36
*5 460.00	5.19	Average	V	34.00	9.50	48.69	54.00	5.31

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11ac_VHT80 (Band 2C)

A. Low Channel (5 530 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*5 350.00	14.18	Peak	V	34.00	9.38	57.56	74.00	16.44
*5 350.00	5.09	Average	V	34.00	9.38	48.47	54.00	5.53
*5 434.61	16.33	Peak	V	34.03	9.42	59.78	74.00	14.22
*5 447.03	6.04	Average	V	34.01	9.47	49.52	54.00	4.48
*5 460.00	14.27	Peak	V	34.00	9.50	57.77	74.00	16.23
*5 460.00	5.30	Average	V	34.00	9.50	48.80	54.00	5.20

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11ac_VHT80 (Band 3)

A. Middle Channel (5 775 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 619.69	17.39	Peak	V	34.10	9.68	61.17	68.23	7.06
5 689.15	15.65	Peak	V	34.10	9.72	59.47	97.20	37.73
5 704.86	16.27	Peak	V	34.11	9.73	60.11	106.59	46.48
5 724.12	14.96	Peak	V	34.15	9.79	58.90	120.22	61.32
5 855.00	14.83	Peak	V	34.41	9.91	59.15	110.83	51.68
5 863.15	15.58	Peak	V	34.43	9.89	59.90	108.55	48.65
5 904.09	15.75	Peak	V	34.51	9.88	60.14	83.70	23.56
5 931.86	15.40	Peak	V	34.56	9.93	59.89	68.23	8.34

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

- MIMO(CDD)

Ant. 1 + Ant. 2

11a (Band 1)

A. Low Channel (5 180 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*4 500.00	15.15	Peak	V	32.00	8.52	55.67	74.00	18.33
*4 500.00	4.40	Average	V	32.00	8.52	44.92	54.00	9.08
*4 660.93	16.71	Peak	V	32.14	8.66	57.51	74.00	16.49
*4 645.92	5.99	Average	V	32.09	8.63	46.71	54.00	7.29
*5 150.00	14.96	Peak	V	33.60	9.16	57.72	74.00	16.28
*5 150.00	4.69	Average	V	33.60	9.16	47.45	54.00	6.55

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 220 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 240 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

11a (Band 2A)

A. Low Channel (5 260 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

B. Middle Channel (5 300 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-

C. High Channel (5 320 MHz)

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*5 350.00	17.16	Peak	V	34.00	9.38	60.54	74.00	13.46
*5 350.00	7.46	Average	V	34.00	9.38	50.84	54.00	3.16
*5 391.43	19.09	Peak	V	34.08	9.39	62.56	74.00	11.44
*5 360.77	7.88	Average	V	34.02	9.39	51.29	54.00	2.71
*5 460.00	16.95	Peak	V	34.00	9.50	60.45	74.00	13.55
*5 460.00	6.96	Average	V	34.00	9.50	50.46	54.00	3.54

Radiated Emissions			Ant.	Correction Factors		Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-