

Partial Test report	Test report No: NIE: 51929RRF.016
USA FCC Part 15.407, 1 CANADA RSS-247, RSS Unlicensed National Information General technical requirements. Radiated emission limits; general Digital Transmission Systems (D (FHSs) and Licence-Exempt Loca	Gen Infrastructure (U-NII) Devices.
(*) Identification of item tested	Headunit with radio and Bluetooth
(*) Trademark	Panasonic
(*) Model and /or type reference	MIB3E_MQB37w_BTWIFI
Other identification of the product	FCC ID: WUQ-MIB3VBTWIFI IC: 216R-MIB3VBTWIFI PN: 5E3.035.869 HW version: X85 SW version: X495
Features	Bluetooth, WLAN, FM, AM, DAB, USB.
(*) Features	PANASONIC AUTOMOTIVE SYSTEMS EUROPE GMBH Robert Bosch Str. 27-29 – 63225 Langen - Germany
Test method requested, standard	 USA FCC Part 15.407 10-1-18 Edition: Unlicensed National Information Infrastructure (U-NII) Devices. General technical requirements. Transmitter Out of Band Radiated Emissions. Transmitter Band Edge Radiated Emissions. USA FCC Part 15.209 10-1-18 Edition: Radiated. emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). Transmitter Out of Band Radiated Emissions. Transmitter Band Edge Radiated Emissions. GANADA RSS-Gen Issue 5 (April 2018). Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02



	General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.			
Approved by (name / position & signature)	A. Llamas RF Lab. Manager		Firmado digitalmente por ALEJANDRO LLAMAS RODRIGUEZ Fecha: 2019.08.06 09:19:59 +02'00'	
Date of issue	2019-08-06			
Report template No	FDT08_22 (*) "Data provided by the	client		



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Competences and guarantees

DEKRA Testing and Certification is a testing laboratory accredited by the National Accreditation Body (ENAC - Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

DEKRA Testing and Certification is a FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification at the time of performance of the test.

DEKRA Testing and Certification is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

- 1. This report is only referred to the item that has undergone the test.
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- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification internal document PODT000.

Data provided by the client

The following data has been provided by the client:

- 1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
- 2. The sample consists of an Automotive head unit to be installed in cars with the following features: Bluetooth, WLAN, FM, AM, DAB, USB.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.



Usage of samples

Samples undergoing test have been selected by: the client.

- Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
51929B/537	Head unit with radio and Bluetooth	MIB3E_MQB37w_BTWIFI	PM6- 00108.01.19413F0111	2019/06/05
51292B/538	Harness			2019/06/05

Sample S/01 has undergone the following test(s): All tests indicated in Appendixes A and B.

Test sample description

Ports			Cable					
		name and ription	Specifi ed max length [m]		ched g test	Shieldeo		Coupled to atient ⁽³⁾
Rated power supply	Volta	ge and Frequency			Re	ference po	oles	
				L1	L2	L3	Ν	PE
		DC: 12 Vdc						
Rated Power:								
Clock frequencies								
Other parameters:								
Software version:	X495							
Hardware version:	X85							
Dimensions in cm (W x H x D):								
		Other: Installed in c	ars					
Modules/parts	Module/parts of test item				Гуре	Ma	anufac	turer



Accessories (not part of the test item)	Description	Туре	Manufacturer
Documents as provided by the applicant	Description	File name	Issue date

⁽³⁾ Only for Medical Equipment

Identification of the client

PANASONIC AUTOMOTIVE SYSTEMS EUROPE GMBH

Robert Bosch Str. 27-29 - 63225 Langen - Germany

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2019-07-09
Date (finish)	2019-07-12

Document history

Report number	Date	Description
51929RRF.016	2019-08-06	First release

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %



Remarks and comments

The tests have been performed by the technical personnel: Ignacio Cabra, Miguel Ángel Torres and José Gabriel Pendón.

Used instrumentation:

Radiated Measurements:

ulateu	weasurements.		
		Last Calibration	Due Calibration
1.	Semianechoic Absorber Lined Chamber ETS FACT3 200STP	N.A.	N.A.
2.	EMI Test Receiver ROHDE AND SCHWARZ ESR7	2018/10	2020/10
3.	BiconicalLog antenna ETS LINDGREN 3142E	2017/09	2020/09
4.	RF Pre-amplifier 40 dB, 10 MHz-6 GHz BONN ELEKTRONIK BLNA 0160-01N	2019/02	2020/08
5.	Signal and Spectrum Analyzer ROHDE AND SCHWARZ FSV40	2018/02	2020/02
6.	Broadband Horn antenna 1-18 GHz SCHWARZBECK BBHA 9120 D	2018/01	2021/01
7.	RF Pre-amplifier 30 dB, 18 GHz-40 GHz BONN ELEKTRONIK BLMA 1840-1M	2019/02	2021/02
8.	Broadband Horn antenna 18-40 GHz SCHWARZBECK BBHA 9170	2018/07	2021/07
9.	DC Power Supply Keysight Technologies U8002A		
10.	0	2019/06	2020/06
11.	RF Pre-amplifier, 30 dB ,1-18 GHz BONN ELEKTRONIK BLMA 0118-3A	2019/04	2020/04

Testing verdicts

Not applicable :	N/A
Pass :	Ρ
Fail :	F
Not measured :	N/M



Summary

A. Common requirements for all bands

FCC PART 15 PARAGRAPH / RSS-247							
Requi	Requirement – Test case Verdict Remark						
RSS-Gen 6.6 / RSS-247 6.2.	Transmitter 99% Occupied Bandwidth	N/M	See (1)				
FCC 15.403 (i)	Transmitter 26 dB Emission Bandwidth (EBW)	N/M	See (1)				
FCC 15.35 (c) / RSS-Gen 6.10	Duty Cycle	N/M	See (1)				
FCC 15.407 (g) / RSS-Gen 6.11	Transmitter Frequency Stability (Temperature & Voltage Variation)	N/M	See (1)				
Supplementary information and remarks:							
(1) Test not requested.							

B. 5.15 GHz – 5.25 GHz Band

FCC PART 15 PARAGRAPH / RSS-247							
Requirement	– Test case	Verdict	Remark				
FCC 15.407 (a) (1) (iv)	Transmitter Maximum conducted Output Power	N/M	See (1)				
RSS-247 6.2.1.1	Transmitter Maximum Equivalent Isotropically Radiated Power EIRP	N/M	See (1)				
FCC 15.407 (a) (1) (iv)	Transmitter Maximum Power Spectral Density	N/M	See (1)				
RSS-247 6.2.1.1	Transmitter EIRP Spectral Density	N/M	See (1)				
FCC 15.407 (b) (1) (7)/ RSS-247 6.2.1.2	Transmitter Band Edge Radiated Emissions	Р					
FCC 15.407 (b) (1) (6) (7) / RSS-247 6.2.1.2	Transmitter Out of Band Radiated Emissions	Р					
Supplementary information and remarks:		<u> </u>					
(1) Test not requested.							

C. 5.725 GHz – 5.85 GHz Band

FCC PART 15 PARAGRAPH / RSS-247							
Requirement – T	est case	Verdict	Remark				
FCC Part 15.407 (a) (3) / RSS-247 6.2.4.1	Transmitter Maximum conducted Output Power	N/M	See (1)				
FCC 15.407 (e) / RSS-247 Clause 6.2.4.1	6 dB bandwidth.	N/M	See (1)				
FCC 15.407 (a) (3) / RSS-247 Clause 6.2.4.1	Transmitter Maximum Power Spectral Density	N/M	See (1)				
FCC 15.407 (b) (4) (7)/ RSS-247 6.2.4.2	Transmitter Band Edge Radiated Emissions	Р					
FCC 15.407 (b) (4) (6) (7) / RSS-247 6.2.4.2	Transmitter Out of Band Radiated Emissions	Р					
Supplementary information and remarks:							
(1) Test not requested.							



Appendix A: Test result for 5.15GHz – 5.25GHz.



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TEST CONDITIONS

Power supply (V): Vnominal = 12 Vdc

Type of power supply = External power supply (Battery).

Type of antenna: External antenna.

Declared Gain:+ 0.7dBi

Technology Tested:	WLAN (IEEE 802.11 a,n,ac) / U-N	WLAN (IEEE 802.11 a,n,ac) / U-NII				
Modes:		802.11a: 6, 9, 12, 18, 24, 36, 48 & 54 Mbps				
	802.11n HT20: MCS0 to MCS23					
	802.11n HT40: MCS0 to MCS23					
	802.11ac VHT20: MCS0 to MCS9					
	802.11ac VHT40: MCS0 to MCS9					
	802.11ac VHT80: MCS0 to MCS9					
Beamforming:	No	No				
Frequency Range:	5150 MHz to 5250 MHz	5150 MHz to 5250 MHz				
Channel Spacing:	20 MHz	20 MHz				
Transmit Channels	Channel	Channel Frequency (MHz)				
	Lowest: 36	5180				
	Middle: 40	5200				
	Highest: 48	5240				
Channel Spacing:	40 MHz					
Transmit Channels	Channel	Channel Frequency (MHz)				
	Lowest: 38	5190				
	Highest: 46	5230				
Channel Spacing:	80 MHz					
Transmit Channels	Middle: 42	5210				

The test set-up was made in accordance to the general provisions of FCC Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017.

The EUT was tested in the following operating mode:

- Continuously transmitting with a modulated carrier at maximum power in all required channels using the supported data rates/modulations types.

The field strength at the band edges was evaluated for each mode on the lowest and highest channels at the rated power for the channel under test.

For all modes, the EUT was configured in test mode using a software application. The application was used to enable a continuous transmission and to select the test channels as required. The client supplied instructions to configure the EUT. The customer supplied a document containing the setup instructions.



The worst cases for testing were identified for output power and spurious levels at the band edges which were selected based on preliminary testing that correspond to next data rates:

- 802.11a: 6 Mbits
- 802.11n HT20: MCS0
- 802.11n HT40: MCS0
- 802.11ac VHT20: MCS0
- 802.11ac VHT40: MCS0
- 802.11ac VHT80: MCS0

RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 1 m for the frequency range 1 GHz-40 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

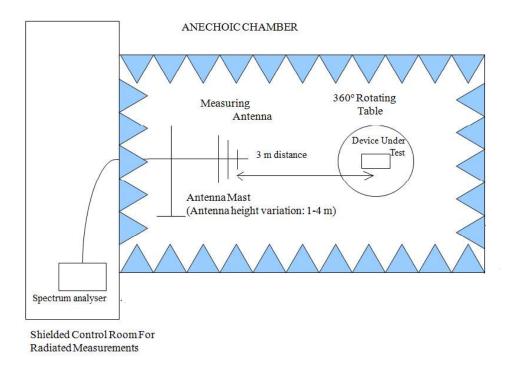
For radiated emissions in the range 1 GHz-40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The EUT was placed at a height of 80 cm above the reference ground plane in the center of the chamber turntable to perform the measurements below 1GHz and the EUT was placed at a height of 1.5 meters above the test chamber floor in the center of the chamber turntable to perform the measurements above 1GHz. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

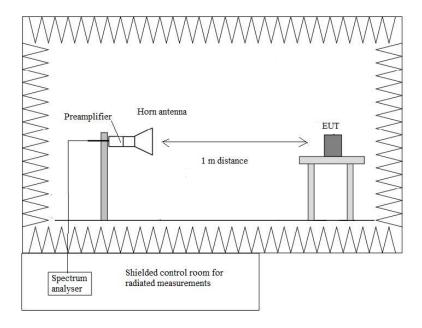
The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor and cable loss.

Radiated measurements setup f < 1 GHz.

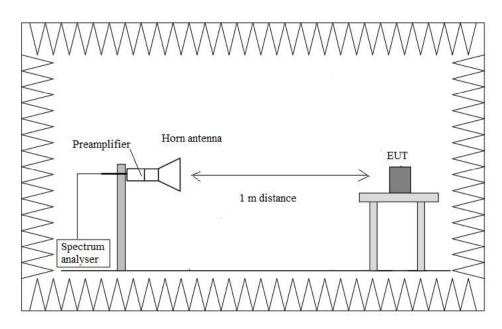




Radiated measurements setup f > 1 GHz up to 17 GHz.



Radiated measurements setup f > 17 GHz up to 40 GHz.





FCC Section 15.407(b)(1)(6) /RSS-247 6.2.1.2. Transmitter Out of Band Radiated Emissions

SPECIFICATION

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 EIRP of –27 dBm/MHz (68.23 dB μ V/m at 3 m distance).

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength (μ V/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasipeak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 1m for the frequency range 1 GHz-40 GHz and a distance of 3m for frequency range 30MHz-1GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.



Frequency range 30 MHz-1000 MHz.

Note: The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious levels operatin	g (radiated) closest to limit.
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Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Uncertainty (dB)
323.991	Horizontal	Quasi-Peak	26.2	46	19.8	± 3.88
406.441	Horizontal	Quasi-Peak	37.5	46	8.5	± 3.88
575.027	Vertical	Quasi-Peak	32.3	46	13.7	± 3.88
725.021	Vertical	Quasi-Peak	34.8	46	11.2	\pm 3.88

Frequency range 1 GHz-40 GHz

The results in the next tables show the maximum measured levels in the 1-40 GHz frequency range.

The lowest, middle and highest channels were measured for out-of-band emissions for the worst mode.

Spurious signals with peak levels above the average limit (54 dBµV/m at 3 m) are measured with an average detector for checking compliance with the average limit for spurious signals inside the restricted bands.

Mode: 802.11n HT20– 20MHz (worst case)

Channel 36 (5180MHz): Out-of-band spurious emissions in the 1-40 GHz range.

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Uncertainty (dB)
1.86150	Horizontal	Peak	54.62	68.23	8.06	± 3.70
3.41410	Vertical	Peak	48.08	68.23	20.15	± 3.70
8.81883	Horizontal	Peak	44.28	68.23	23.95	± 3.70

Channel 40 (5200MHz): Out-of-band spurious emissions in the 1-40 GHz range.

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Uncertainty (dB)
1.86430	Vertical	Peak	53.83	68.23	14.4	± 3.70
2 20020	Horizontal	Peak	54.53	68.23	13.7	± 3.70
2.20030	HUHZUHIAI	Average	53.52	54	0.48	± 3.70
4.40030	Horizontal	Peak	51.63	68.23	16.6	± 3.70
8.81920	Vertical	Peak	45.29	68.23	16.6	± 3.70

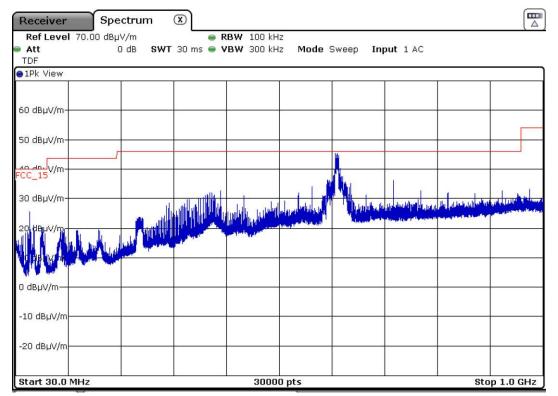


Channel 48 (5240MHz): Out-of-band spurious emissions in the 1-40 GHz range.

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Uncertainty (dB)
1.86250	Horizontal	Peak	55.32	68.23	12.91	± 3.70
2.14330	Horizontal	Peak	54.43	68.23	13.8	± 3.70
8.81917	Horizontal	Peak	44.33	68.23	23.9	± 3.70

Verdict: PASS

FREQUENCY RANGE 30 MHz-1000 MHz.



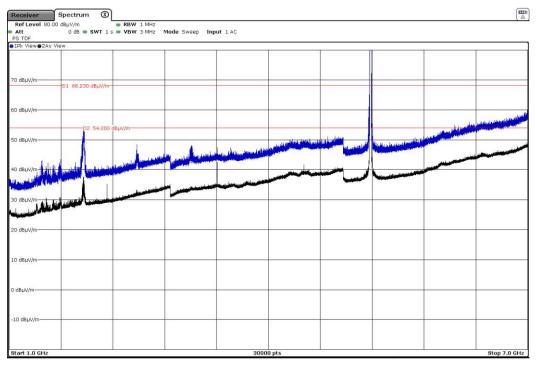
Note: This plot is valid for all channels and all modulation modes.



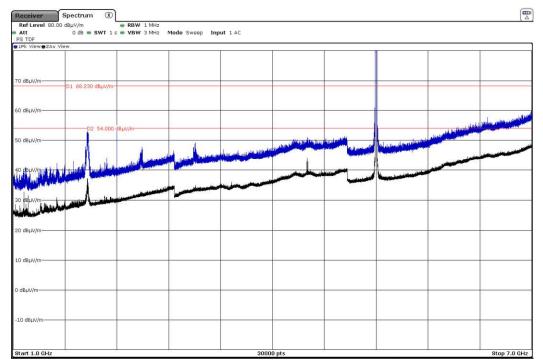
FREQUENCY RANGE 1 GHz to 7 GHz. (worst case)

Mode: 802.11n HT20- 20MHz

Channel 36 (5180MHz):

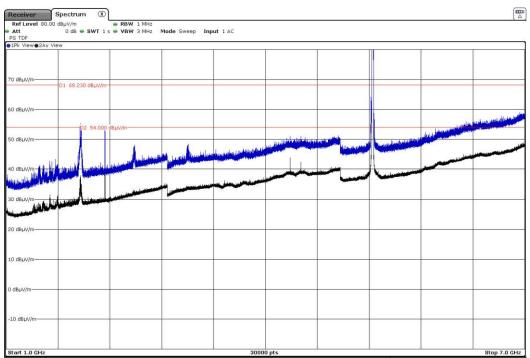


Channel 40 (5200MHz):





Channel 48 (5240MHz):





FREQUENCY RANGE 7 GHz to 17 GHz. (worst case)

Mode: 802.11n HT20 - 20MHz

Channel 36 (5180MHz):

Spectrum	1								
Ref Level 80.00 Att		 RBW 1 MHz VBW 3 MHz 	Mode Sween						<u> </u>
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●1Pk View●2Av V	lew								
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60 dBµV/m									
	D2 54.000 (dBµV/m-							
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Channel 48 (5240MHz):

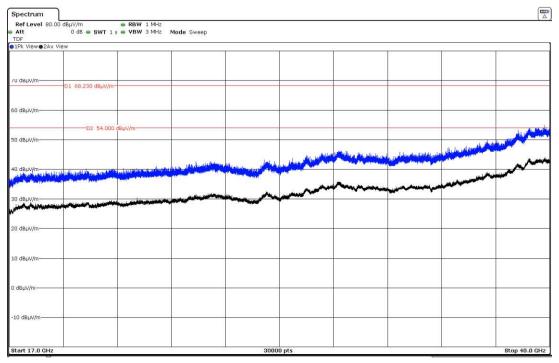
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Start 7.0 GHz		·		3000	0 pts				Stop 17.0 GHz



FREQUENCY RANGE 17 GHz to 40 GHz.

Mode: 802.11n HT20 - 20MHz

Channel 36 (5180MHz):



Channel 40 (5200MHz):

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#### Channel 48 (5240MHz):

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30 dBµV/m	الكمينين والمحاصل والمحاص	a the state of the second	and the second se						
20 dBµV/m	-						-		
10 dBµV/m									
0 dBµV/m	_								
-10 dBµV/m									
Start 17.0 GHz				3000	0 ptc			1	Stop 40.0 GHz
Start 17.0 GH2				3000	o pra				otop 40.0 GHz



# FCC Section 15.407 Subclause (b) (1) / RSS-247 6.2.1.2. Transmitter Band Edge Radiated Emissions.

#### **SPECIFICATION**

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 EIRP of –27 dBm/MHz (68.20 dB $\mu$ V/m at 3 m distance).

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

#### RESULTS:

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

All emissions outside of the 5.15-5.35GHz band shall not exceed an EIRP of -27dBm/MHz. There are restricted bands of operation below band edge at 4.5-5.15 GHz also above the upper band edge at 5.35-5.46GHz therefore the provision of FCC Part 15.205 apply.

Field strength measurements using peak and average detector performed in the restricted bands below 5.15GHz and above 5.35 GHz.

Test performed on the following worst cases modes in all relevant tests channels:

- 802.11a: 6 Mbits
- 802.11n HT20: MCS0
- 802.11n HT40: MCS0
- 802.11ac VHT20: MCS0
- 802.11ac VHT40: MCS0
- 802.11ac VHT80: MCS0

DEKRA Testing and Certification, S.A.U. Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



#### Mode: 802.11a - 20MHz

Channel 36 (5180MHz): spurious emissions in 4.50-5.15 GHz adjacent band. No radiated spurious signals were detected.

Channel 48 (5240MHz): spurious emissions in 5.35-5.46 GHz adjacent band. No radiated spurious signals were detected.

#### Mode: 802.11ac VHT20 - 20MHz

Channel 36 (5180MHz): spurious emissions in 4.50-5.15 GHz adjacent band. No radiated spurious signals were detected.

Channel 48 (5240MHz): spurious emissions in 5.35-5.46 GHz adjacent band. No radiated spurious signals were detected.

#### Mode : 802.11n HT20 – 20MHz

Channel 36 (5180MHz): spurious emissions in 4.50-5.15 GHz adjacent band. No radiated spurious signals were detected.

Channel 48 (5240MHz): spurious emissions in 5.35-5.46 GHz adjacent band. No radiated spurious signals were detected.

#### Mode: 802.11ac VHT40 – 40MHz

Channel 38 (5190MHz): spurious emissions in 4.50-5.15 GHz adjacent band. No radiated spurious signals were detected.

Channel 46 (5230MHz): spurious emissions in 5.35-5.46 GHz adjacent band. No radiated spurious signals were detected.

#### Mode : 802.11n HT40- 40MHz

Channel 38 (5190MHz): spurious emissions in 4.50-5.15 GHz adjacent band. No radiated spurious signals were detected.

Channel 46 (5230MHz): spurious emissions in 5.35-5.46 GHz adjacent band. No radiated spurious signals were detected. DEKRA Testing and Certification, S.A.U. Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



#### Mode : 802.11ac VHT80 – 80MHz

Channel 42 (5210MHz): spurious emissions in 4.50-5.15 GHz and 5.35-5.46 GHz adjacent band.

No radiated spurious signals were detected.

Verdict: PASS



#### Mode: 802.11a - 20MHz

#### 4500 MHz to 5150 MHz Lower Band Edge Channel 36

Receiver	Spectrum 🛞	1							
Ref Level 92.00		RBW 1 MHz	1000-21 15 78	100000000000					
Att SGL Count 300/301		s 🖶 VBW 3 MHz	Mode Sweep Ing	out 1 AC					
●1Pk View●2Rm Vie	ew								-
90 dBµV/m					-				
10 10									
80 dBµV/m									
	D1 74.000 dBµV/m-								
70 dBµV/m									
60 dBµV/m									
	D2 54.000	d8µV/m							
50 dBµV/m-		and the second second		tat states at the	atulat the				
50 dBuV/m-	a serial and a series of the series of the	an international states and a state	and the second subscription of the second	a in an	Huch day	hereiten with which the host with	A REAL PROPERTY AND IN A	Selected as a lar or the advance	haniala se in which wight
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40 dBµV/m-				APPLIANT CONTRACTOR OF CONTRACTOR					
					hard bearings	*****************************	an franker and a state of the s	and an	and the second sec
30 dBµV/m									
20 dBµV/m									
10 dBµV/m									
10 0001/11									
0 dBµV/m									
Start 4.5 GHz				3000	pts				Stop 5.15 GHz

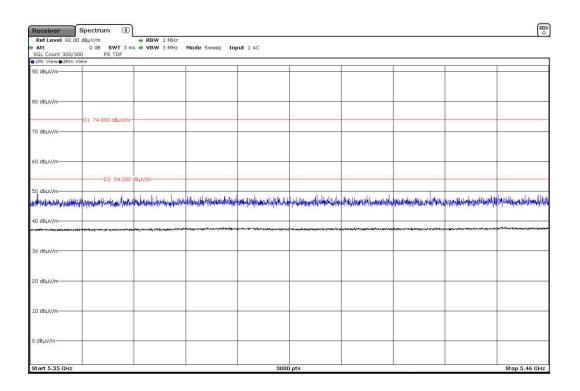
Receiver	Spe	ectrum	×						
Ref Leve Att SGL Count		IV/m D dB <b>SWT</b> PS TDF	3 ms 👄 VE	W 1 MHz W 3 MHz	Mode Swe	eep Input	1 AC		
●1Pk View(	2Rm View	-							
80 dBµV/m-									
70 dBµV/m-	D1 74.000	dBµV/m							
60 dBµV/m-									
50 dBµV/m-		.000 dBµV/m-	ut to a the set of the set	aghterian and realistic	tilkilahashinkininini tilkilahashini	willing and her and	, illeder and a street	en andre han shallow	aty:tightibilitythics.co
40 dBµV/m-									
30 dBµV/m-									
20 dBµV/m-									
10 dBµV/m-									
0 dBµV/m—									
Start 5.35	GHz		1	3000	pts		· · · · · ·	Stop	5.46 GHz



#### Mode: 802.11ac VHT20 – 20MHz

#### 4500 MHz to 5150 MHz Lower Band Edge Channel 36

Receiver	Spectrum 🛞								
Ref Level 92.00	dBµV/m	🖷 RBW 1 MHz	NUMBER OF THE	Anna Matsata an					
🖷 Att		s 🖶 VBW 3 MHz	Mode Sweep Inp	ut 1 AC					
SGL Count 300/30 91Pk View 92Rm Vi									
Fictors construct productions	lew I				N 2				
90 dBµV/m									-
80 dBµV/m									
60 ubµv/m									
	D1 74.000 dBµV/m-				1.		-		
70 dBµV/m									
60 dBµV/m	-						-		
	D2 54.000 c	dBµV/m							
50 dBuV/mt			1.2	1	and country to		-		
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40 dBµV/m	and and and an an and and and and and an				www.common.com				
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						8.8			
30 dBµV/m									
30 UBpV/m									
20 dBµV/m									
10 dBµV/m									
0 dBµV/m									
o oppym									
	· · · · · · · · · · · · · · · · · · ·				n;				
Start 4.5 GHz				3000	pts				Stop 5.15 GHz





#### Mode: 802.11n HT20- 20MHz

#### 4500 MHz to 5150 MHz Lower Band Edge Channel 36

Receiver	Spe	ectrum	×						
🖷 Att	l 92.00 dBµ ( 300/300	D dB SWT	3 ms 👄 VE	3W 1 MHz 3W 3 MHz	Mode Swe	eep Input	1 AC		
●1Pk View(	2Rm View								
80 dBµV/m-									
70 dBµV/m-	D1 74.000	dBµV/m					7		
60 dBµV/m-									
50 dBµ∨/m-			المعارفين المحالية المعدور العرائية		La Barrista	-	الاندادة والمارية	antra Landar Martin	and the second second second second
40 dBµV/m-			<b>∊</b> ⋈⋳⋼⋼⋠⋾∊⋼ <b>⋎</b> ⋝∊						
30 dBµV/m-									
20 dBµV/m-									
10 dBµV/m-									
0 dBµV/m—									
Start 4.5 0	GHz			3000	pts			Stop	5.15 GHz

Receiver	Spe	ctrum	×						
Ref Level Att SGL Count		2291.0010320C	3 ms 🖷 VE	3W 1 MHz 3W 3 MHz	Mode Swe	eep Input	1 AC		
●1Pk View●		1010							
80 dBµV/m-									
70 dBµV/m-	D1 74.000	dBµV/m───							
60 dBµV/m-									
50 dBµV/m-		.000 dBµV/m-	ingersonal work to as	ni frankligi nasionariti ja	atin ba specticals of 11 have a low of 14	edition for an address	and an and the set	the trail the station of the	ehrmusselenselenselenselense
40 dBµV/m-			*****						
30 dBµV/m-									
20 dBµV/m-									
10 dBµV/m-									
0 dBµV/m—	011-			2000				Oten	E 46 0Up
Start 5.35	GHZ			3000	i pres			scop	5.46 GHz



#### Mode: 802.11ac VHT40 – 40MHz

#### 4500 MHz to 5150 MHz Lower Band Edge Channel 38

Receiver Spectrum (X)							<b></b>
The second	RBW 1 MHz						12
Att 0 dB SWT 3 ms 🖷 V	/BW 3 MHz Mode Sweep In	put 1 AC					
SGL Count 300/300 PS TDF	125	16					
1Pk Viewe2Rm View	2						
90 dBµV/m-							
80 dBµV/m							
D1 74.000 dBµV/m							
70 dBµV/m							
60 dBµV/m							
D2 54.000.d8µV/r							
50 dBuv/m Bandki/landal	or Listinbulg are subscription administration of the	demistrickystyldia this resistant d	hold a state	ale and a scherift and locat	allan makikilikan	al a large the second and the second s	an the state of th
40 dBµV/m-				a and a subsequence of the second	And the second sec		
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30 dBµV/m		-					
20 dBµV/m							
10 dBµV/m							
0 dBµV/m							
Start 4.5 GHz		3000 pt:					

Ref Level 92.00		RBW 1 MHz		1.1401 (MD)					
Att GL Count 300/30		s 🖷 VBW 3 MHz	Mode Sweep In	put 1 AC					
1Pk View@2Rm Vi									
90 dBµV/m							-		
30 dBµV/m					-		-		-
E. Markanin									
	D1 74.000 dBµV/m-								
70 dBµV/m									
2272272									
60 dBµV/m									
	D2 54.000 (	dBµV/m	-						
50 dBµV/m									
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d dbub //m									2
) dBµV/m					-				-



#### Mode: 802.11n HT40 - 40MHz

#### 4500 MHz to 5150 MHz Lower Band Edge Channel 38

Receiver	Spectrum (X)							
Ref Level 92.00		BW 1 MHz	101.021					
SGL Count 300/3		BW 3 MHz Mode Sweep In	nput 1 AC					
∎1Pk View⊕2Rm \	view.							
90 dBµV/m								
80 dBµV/m				-				-
	D1 74.000 dBµV/m							
70 dBµV/m								
60 dBµV/m								
	D2 54.000 dBµV/n	9						
50 dBµV/m	allement trathe let the worthing buy	waterneiterstrationshilterstrated	Markel Marked States Andrews	A And Market			T.	L. Mil
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Receiver			×						
Ref Level Att		IV/m OdB <b>SWT</b>		BW 1 MHz BW 3 MHz	Mode Swe	eep Input	1 AC		
SGL Count 3	1.04 CT	PS TDF	8			6) W			
●1Pk View●2	Rm View				1				
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60 dBµV/m		1		n. 71	2				
	-D2 54	.000 dBµV/m-							
50 dBµV/m-	Hp-	-	waanin an white	-	A. Antipological March 19	-	with with the fill	-	al a statistic har a filler has
40 dBµV/m	5. 	Å	-		-				
******	******		, Maria ( 1999), Maria		****			<b></b>	
30 dBµV/m+		-			-				
20 dBµV/m-									
10 dBµV/m									
0 dBµV/m					-			-	
Start 5.35 G	Hz	1		3000	) pts			Stor	5.46 GHz



#### Mode: 802.11ac VHT80 – 80MHz

#### 4500 MHz to 5150 MHz Lower Band Edge Channel 42

Receiver	Spectrum 🛞								ſ
Ref Level 92.0		RBW 1 MHz							
Att SGL Count 300/3		s 🖷 VBW 3 MHz	Mode Sweep In	put 1 AC					
1Pk Viewe2Rm									
90 dBµV/m									
30 dBµV/m				-					
	D1 74.000 dBµV/m-								
70 dBµV/m							-		-
50 dBµV/m									
	D2 54.000	dBµV/m	-						-
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30 dBµV/m									
20 dBµV/m			0				-		-
10 dBµV/m									
) dBµV/m									
start 4.5 GHz		1	2	3000	) pts				Stop 5.15 GF

	0 dBµV/m	🖷 RBW 1 MHz	NG 86 22						
Att SGL Count 300/3		s 🖷 VBW 3 MH2	Mode Sweep In	put 1 AC					
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90 dBµV/m									
o uppy/m									
80 dBµV/m	_								-
in approxim									
	D1 74.000 dBµV/m-						-		
70 dBµV/m									
60 dBµV/m									
	D2 54.000	dBµV/m	-						-
50 dBµV/m									
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40 d8µV/m 30 d8µV/m 20 d8µV/m		entabildiriya na en		lifetic alles de la composition de la c		line deletert en de d			
40 dBµV/m		entabildiriya na en							
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# **Appendix B:** Test result for 5.725GHz – 5.850GHz.



## INDEX

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FCC Section 15.407(b)(4)(6) /RSS-247 6.2.4.2. Transmitter Out of Band Radiated Emissions	. 37
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## **TEST CONDITIONS**

Power supply (V): Vnominal = 12 Vdc

Type of power supply = External power supply (Battery).

Type of antenna: External antenna.

Declared Gain: + 0.7dBi

Technology Tested:	WLAN (IEEE 802.11 a,n,ac) / U-NII					
Modes:	802.11a: 6, 9, 12, 18, 24, 36, 48 & 54 Mbps					
	802.11n HT20: MCS0 to MCS7					
	802.11n HT40: MCS0 to MCS7					
	802.11ac VHT20: MCS0 to MCS8					
	802.11ac VHT40: MCS0 to MCS9					
	802.11ac VHT80: MCS0 to MCS9					
Beamforming:	No					
Frequency Range:	5725 MHz to 5850 MHz					
Channel Spacing:	20 MHz					
Transmit Channels	Channel	Channel Frequency (MHz)				
	Lowest: 149	5745				
	Middle: 157	5785				
	Highest: 165	5825				
Channel Spacing:	40 MHz					
Transmit Channels	Channel	Channel Frequency (MHz)				
	Lowest: 151	5755				
	Highest: 159	5795				
Channel Spacing:	80 MHz					
Transmit Channels	Middle: 155	5775				

The test set-up was made in accordance to the general provisions of ANSI C63.10: 2013 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated 12/14/2017 and FCC KBD 662911 D01 Multiple Transmitter Output v02r01 dated 10/31/2013.

The EUT was tested in the following operating mode:

- Continuously transmitting with a modulated carrier at maximum power in all required channels using the supported data rates/modulations types.

The field strength at the band edges was evaluated for each mode individually on the lowest and highest channels at the rated power for the channel under test.



For all modes, the EUT was configured in test mode using a software application. The application was used to enable a continuous transmission and to select the test channels as required. The client supplied scripts to configure the EUT. The customer supplied a document containing the setup instructions.

The worst cases for testing were identified for output power and spurious levels at the band edges which were selected based on preliminary testing that correspond to next data rates:

- 802.11a: 6 Mbits
- 802.11n HT20: MCS0
- 802.11n HT40: MCS0
- 802.11ac VHT20: MCS0
- 802.11ac VHT40: MCS0
- 802.11ac VHT80: MCS0

#### RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 1 m for the frequency range 1 GHz-40 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

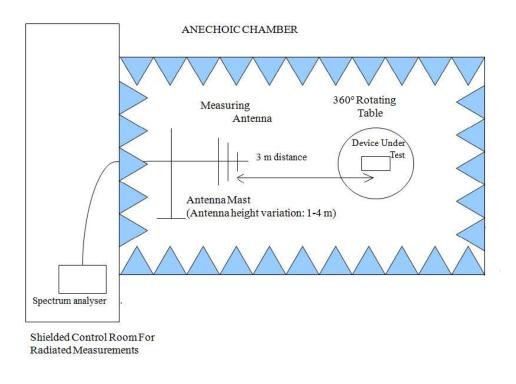
For radiated emissions in the range 1 GHz-40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The EUT was placed at a height of 80 cm above the reference ground plane in the center of the chamber turntable to perform the measurements below 1GHz and the EUT was placed at a height of 1.5 meters above the test chamber floor in the center of the chamber turntable to perform the measurements above 1GHz. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

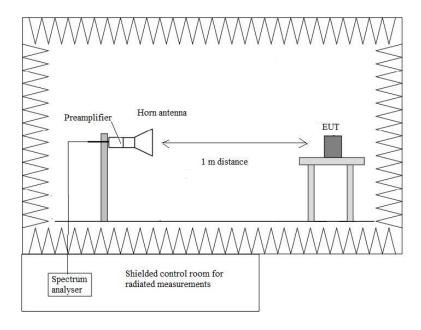
The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor and cable loss.

#### Radiated measurements setup f < 1 GHz

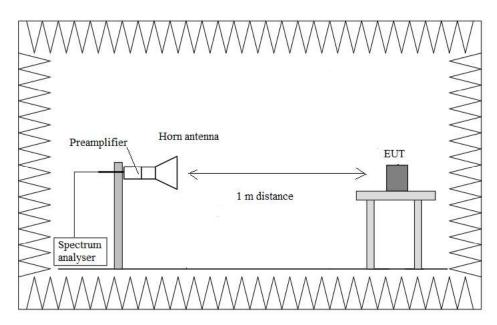




Radiated measurements setup f > 1 GHz up to 17 GHz.



Radiated measurements setup f > 17 GHz up to 40 GHz.





# FCC Section 15.407(b)(4)(6) /RSS-247 6.2.4.2. Transmitter Out of Band Radiated Emissions

# SPECIFICATION

For transmitters operating in the 5.725–5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz (68.23 dBµV/m at 3 m distance) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/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 dBm/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 dBm/MHz at the band edge.

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength ( $\mu$ V/m)	Field strength (dBµV/m)	Measurement distance (m)	
0.009-0.490	2400/F(kHz)	-	300	
0.490-1.705	0.490-1.705 24000/F(kHz) -			
1.705 - 30.0	30	-	30	
30 - 88	100	40	3	
88 - 216	150	43.5	3	
216 - 960	200	46	3	
960 - 40000	500	54	3	

The emission limits shown in the above table are based on measurements employing CISPR quasipeak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

#### RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 1m for the frequency range 1 GHz-40 GHz and a distance of 3m for frequency range 30MHz-1GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.



#### Frequency range 30 MHz-1000 MHz.

Note: The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Uncertainty (dB)
328.679	Horizontal	Quasi-Peak	38.3	46	7.7	± 3.88
575.027	Vertical	Quasi-Peak	32.3	46	13.7	± 3.88
621.781	Vertical	Quasi-Peak	39.3	46	6.7	± 3.88
725.021	Vertical	Quasi-Peak	34.9	46	11.1	± 3.88

#### Frequency range 1 GHz-40 GHz

The results in the next tables show the maximum measured levels in the 1-40 GHz range except the 5.65-5.725 GHz and 5.85-5.925GHz adjacent bands. The results in the adjacent bands was evaluated on the next section.

The lowest, middle and highest channels were measured for out-of-band emissions for the worst mode.

Spurious signals with peak levels above the average limit (54 dBµV/m at 3 m) are measured with an average detector for checking compliance with the average limit for emissions inside the restricted bands.

#### Mode: 802.11n HT20– 20MHz (worst case)

Channel 149 (5745MHz):

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Uncertainty (dB)
1.85330	Horizontal	Peak	53.59	68.23	14.64	± 3.70
2.05550	Horizontal	Peak	55.14	68.23	13.09	± 3.70
8.81917	Horizontal	Peak	43.20	68.23	25.03	± 3.70

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Uncertainty (dB)
1.86770	Horizontal	Peak	54.58	68.23	13.65	± 3.70
2.39210	Horizontal	Peak	51.30	68.23	16.93	± 3.70
8.81917	Horizontal	Peak	43.88	68.23	24.35	± 3.70

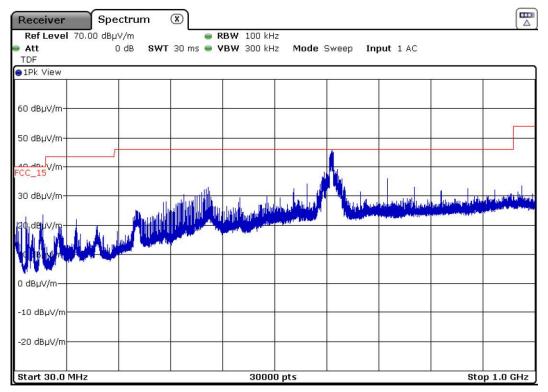


Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement Uncertainty (dB)
1.85930	Horizontal	Peak	54.32	68.23	13.91	± 3.70
2.09930	Horizontal	Peak	54.40	68.23	13.83	± 3.70
8.81917	Horizontal	Peak	44.93	68.23	23.30	± 3.70

Verdict: PASS



#### FREQUENCY RANGE 30 MHz-1000 MHz.



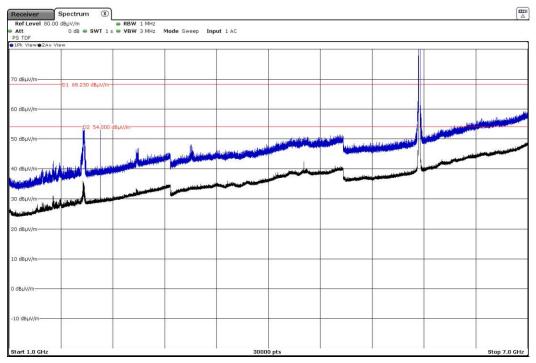
Note: This plot is valid for all channels and all modulation modes.



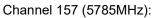
# Mode: 802.11n HT20- 20MHz (worst case)

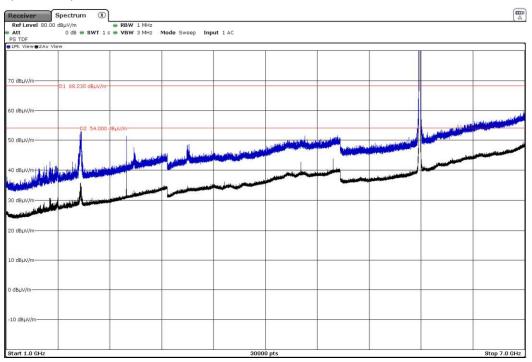
# FREQUENCY RANGE 1 GHz to 7 GHz.

# Channel 149 (5745MHz):



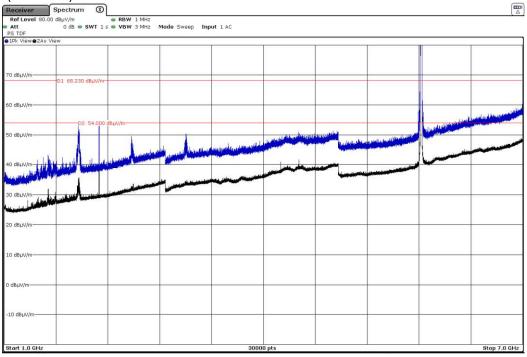
Note: The peaks shown in the plot above the limit are the carrier frequencies.





Note: The peaks shown in the plot above the limit are the carrier frequencies.



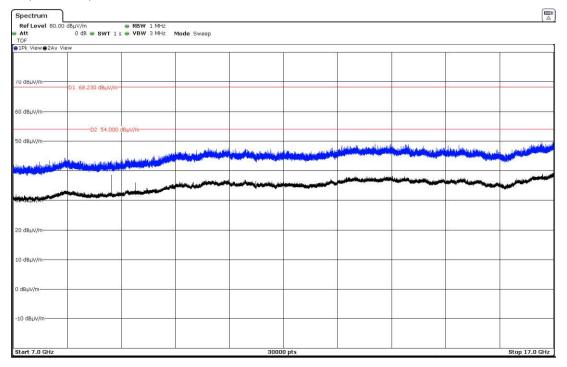


Note: The peaks shown in the plot above the limit are the carrier frequencies.

# FREQUENCY RANGE 7 GHz to 17 GHz.

# Mode: 802.11n HT20- 20MHz

Channel 149 (5745MHz):





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# FREQUENCY RANGE 17 GHz to 26 GHz.

# Mode: 802.11n HT20- 20MHz

Channel 149 (5745MHz):

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# FCC Section 15.407 Subclause (b) (4) / RSS-247 6.2.4.2. Transmitter Band Edge Radiated Emissions.

# **SPECIFICATION**

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz (68.23 dBµV/m at 3 m distance) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/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 dBm/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 dBm/MHz at the band edge.

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)	
0.009-0.490	.009-0.490 2400/F(kHz) -			
0.490-1.705	24000/F(kHz)	-	300	
1.705 - 30.0	30	-	30	
30 - 88	100	40	3	
88 - 216	150	43.5	3	
216 - 960	200	46	3	
960 - 40000	500	54	3	

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

#### RESULTS:

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

Test performed on the following worst cases modes in all relevant tests channels:

- 802.11a: 6 Mbits
- 802.11n HT20: MCS0
- 802.11n HT40: MCS0
- 802.11ac VHT20: MCS0
- 802.11ac VHT40: MCS0
- 802.11ac VHT80: MCS0

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# Mode: 802.11a - 20MHz

#### Results: Peak / Channel 149

No radiated spurious signals were detected outside the band-edge.

# Results: Peak / Channel 157

No radiated spurious signals were detected outside the band-edge.

# Results: Peak / Channel 165

No radiated spurious signals were detected outside the band-edge.

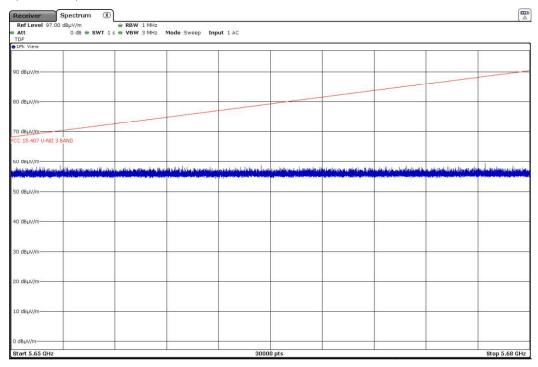
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# Mode: 802.11a - 20MHz

# Radiated spurious emissions inside adjacent band 5.65 – 5.68 GHz.

# Channel 149 (5745MHz):



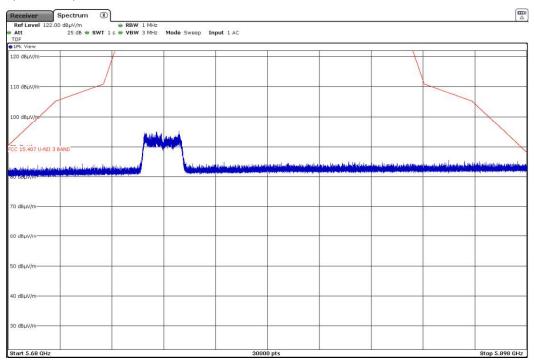
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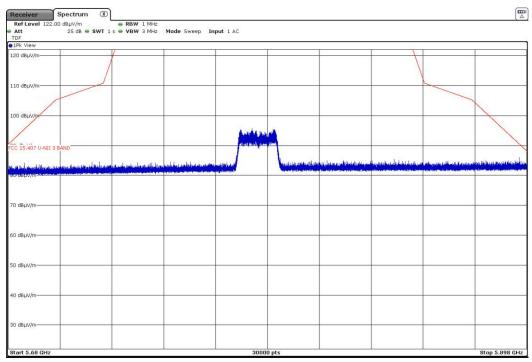
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#### Radiated spurious emissions inside band 5.68 – 5.898 GHz.

#### Channel 149 (5745MHz):







Note: The signal shown on the plot is the carrier frequency.

# Channel 165 (5825MHz):

Spectrum () 122.00 dBµV/m • RBW 1 MHz 25 dB • SWT 1 s • VBW 3 MHz Ref Level Att Mode Sweep Input 1 AC 20 dBµV, 110 dBµV/r 100 dBuV Vuela no 0 dBr 40 dBuN O dBu Start 5.68 GHz 30000 nts Stop 5.898 GHz



# Radiated spurious emissions inside adjacent band 5.898 – 5.925 GHz.

# Channel 149 (5745MHz):

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Start 5.898 GHz				3000	0 pts				Stop 5.925 GHz

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# Mode: 802.11ac VHT20 – 20MHz

#### Results: Peak / Channel 149

No radiated spurious signals were detected outside the band-edge.

# Results: Peak / Channel 157

No radiated spurious signals were detected outside the band-edge.

# Results: Peak / Channel 165

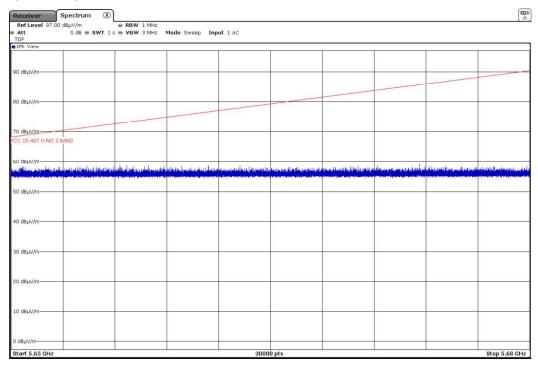
No radiated spurious signals were detected outside the band-edge.



# Mode: 802.11ac VHT20 – 20MHz

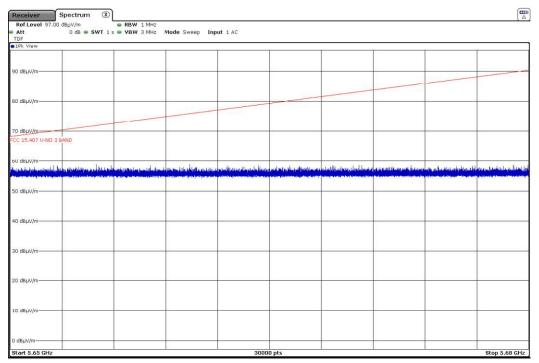
#### Radiated spurious emissions inside adjacent band 5.65 – 5.68 GHz.

#### Channel 149 (5745MHz):



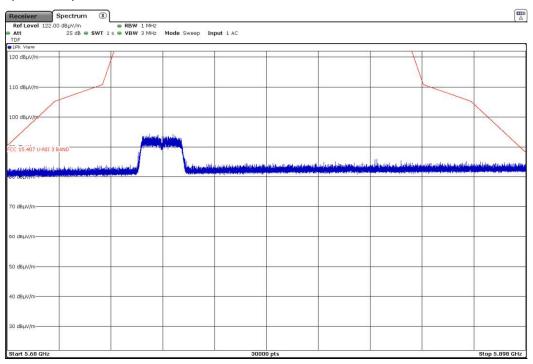
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0 d8µV/m 0 d8µV/m 0 d8µV/m 0 d8µV/m									





#### Radiated spurious emissions inside band 5.68 - 5.898 GHz.

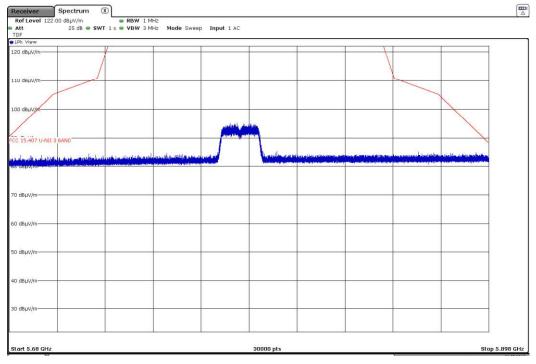
#### Channel 149 (5745MHz):



DEKRA Testing and Certification, S.A.U. Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456

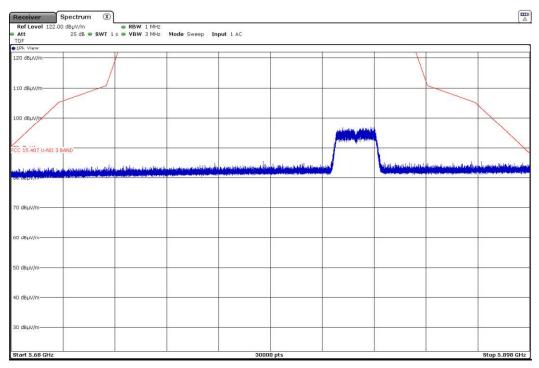


#### Channel 157 (5785MHz):



Note: The signal shown on the plot is the carrier frequency.

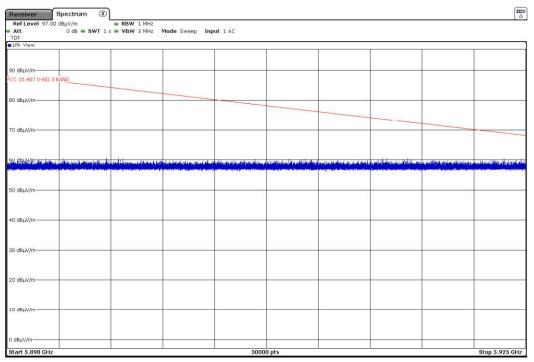
#### Channel 165 (5825MHz):





# Radiated spurious emissions inside adjacent band 5.898 – 5.925 GHz.

# Channel 149 (5745MHz):



Ref Level 97.00	dBµV/m	. RBW 1 MHz							[
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# Mode: 802.11n HT20- 20MHz

#### Results: Peak / Channel 149

No radiated spurious signals were detected outside the band-edge.

# Results: Peak / Channel 157

No radiated spurious signals were detected outside the band-edge.

#### Results: Peak / Channel 165

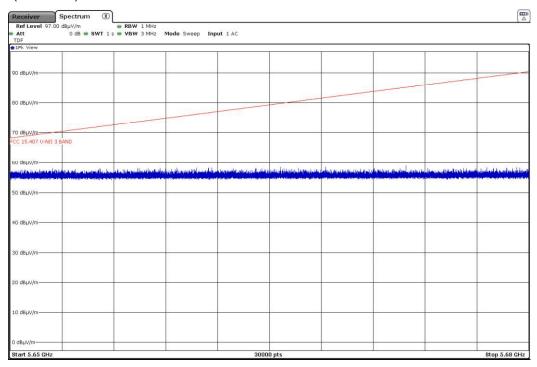
No radiated spurious signals were detected outside the band-edge.



# Mode: 802.11n HT20- 20MHz

#### Radiated spurious emissions inside adjacent band 5.65 – 5.68 GHz.

# Channel 149 (5745MHz):



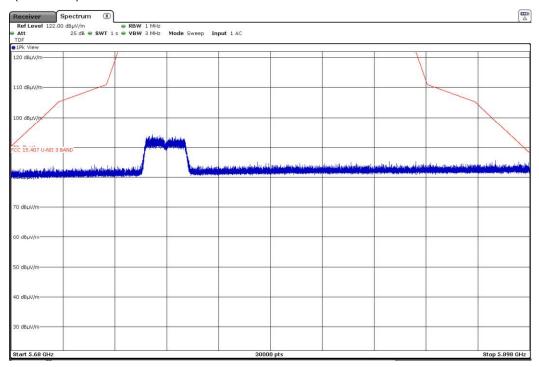
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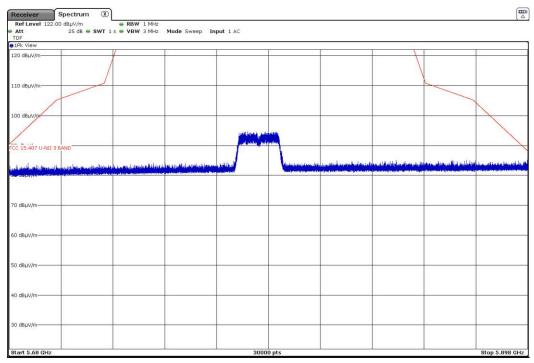
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20 dBµV/m									
10 dBµV/m									
0 dBµV/m									
Start 5.65 GHz				3000	) nts				Stop 5.68 GHz
atant a.oa GHz				3000	i prs				acup a.68 GHz

# Radiated spurious emissions inside band 5.68 - 5.898 GHz.

#### Channel 149 (5745MHz):

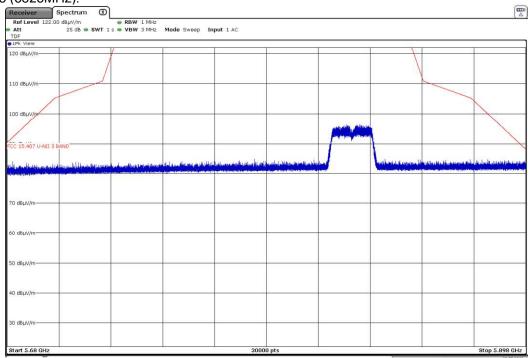






Note: The signal shown on the plot is the carrier frequency.

# Channel 165 (5825MHz):

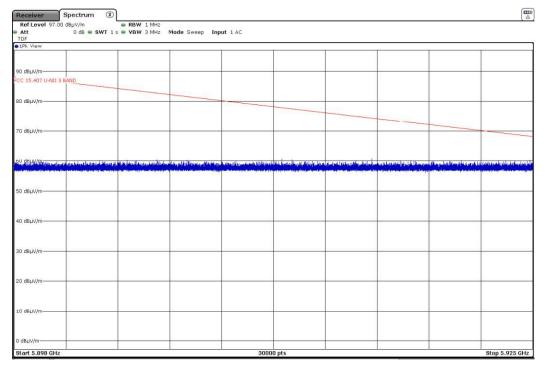




# Radiated spurious emissions inside adjacent band 5.898 – 5.925 GHz.

# Channel 149 (5745MHz):

Receiver Spectrum	$\otimes$						
Ref Level 97.00 dBµV/m	RBW 1 MHz	and the second second	NY CONTRACT				(1
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80 dBµV/m							
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	and the second s						
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FIG. 2 100 CONT. 1910							
10 dBµV/m							
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Concernance -			0000			-	
Start 5.898 GHz			3000	u pts			Stop 5.925 GHz





Receiver Spe	ctrum 🛞								
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30 dBµV/m									-
20 dBµV/m									
10 dBµV/m									
0 dBµV/m									
Start 5.898 GHz				3000	0 pts				Stop 5.925 GHz



# Mode: 802.11ac VHT40- 40MHz

#### Results: Channel 151

No radiated spurious signals were detected outside the band-edge.

#### **Results: Channel 159**

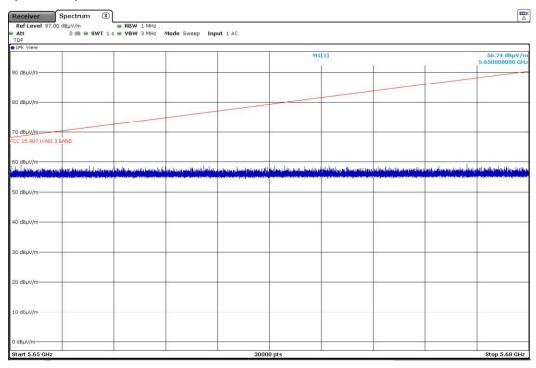
No radiated spurious signals were detected outside the band-edge.



# Mode: 802.11ac VHT40 - 40MHz

# Radiated spurious emissions inside adjacent band 5.65 – 5.68 GHz.

# Channel 151 (5755MHz):

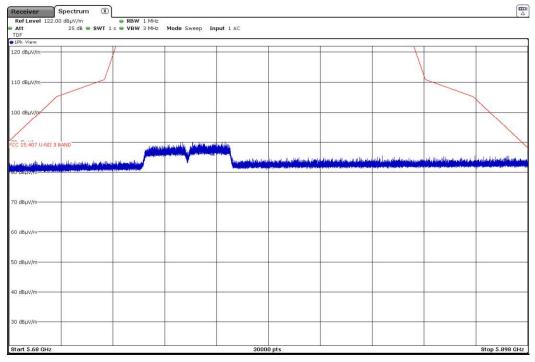


Ref Level 97.00 de		RBW 1 MHz							
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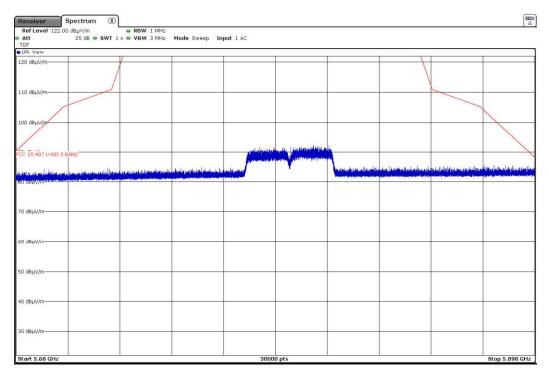
#### Radiated spurious emissions inside band 5.68 – 5.898 GHz.

#### Channel 151 (5755MHz):



Note: The signal shown on the plot is the carrier frequency.

# Channel 159 (5795MHz):





# Radiated spurious emissions inside adjacent band 5.898 – 5.925 GHz.

# Channel 151 (5755MHz):

Receiver Sp	pectrum 🛞								
Ref Level 97.00 dt Att		<ul> <li>RBW 1 MHz</li> <li>VBW 3 MHz</li> </ul>	Mode Sweep Inp	ut 1 AC					
TDF 1Pk View									
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CC 13.407 04411 3 84	AD .								
80 dBµV/m									
oo dopeyin									
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to depayin									
0 dBµV/m-									
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acuit a.090 GHZ				3000	u pes				acup a.92a GHZ

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1Pk View					1	T		1
90 dBµV/m								
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50 dBµV/m								
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20 dBµV/m								
10 dBµV/m			-	14	1			



# Mode: 802.11n HT40- 40MHz

#### Results: Channel 151

No radiated spurious signals were detected outside the band-edge

### Results: Channel 159

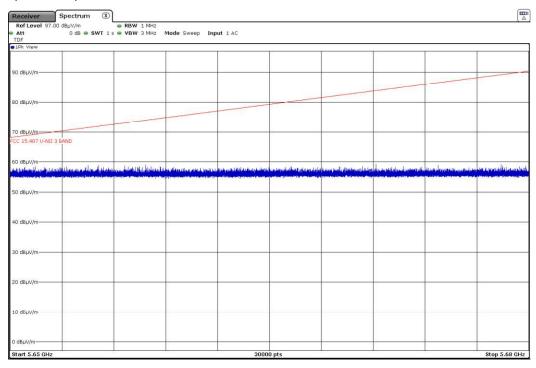
No radiated spurious signals were detected outside the band-edge.



# Mode: 802.11n HT40 - 40MHz

# Radiated spurious emissions inside adjacent band 5.65 – 5.68 GHz.

# Channel 151 (5755MHz):

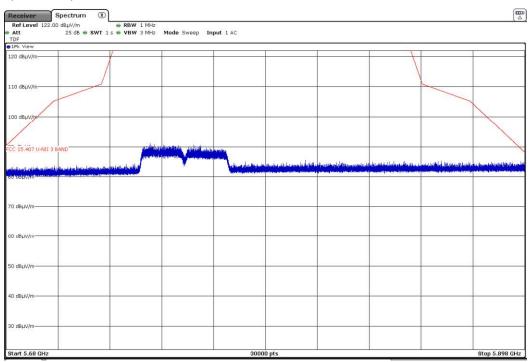


Ref Level 97.00 Att		RBW 1 MHz	Mode Sweep Inp						
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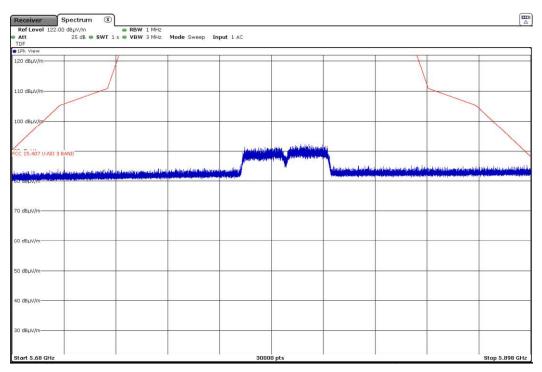
#### Radiated spurious emissions inside band 5.68 – 5.898 GHz.

#### Channel 151 (5755MHz):



Note: The signal shown on the plot is the carrier frequency.

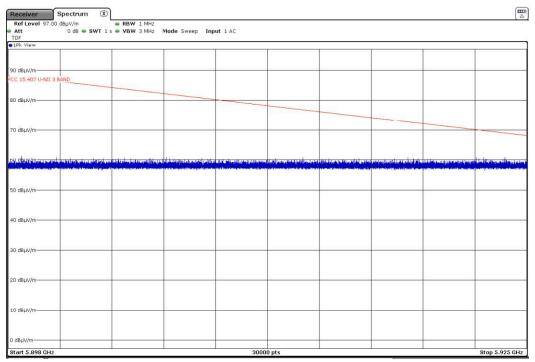
#### Channel 159 (5795MHz):





# Radiated spurious emissions inside adjacent band 5.898 – 5.925 GHz.

# Channel 151 (5755MHz):



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# Mode: 802.11ac VHT80 - 80MHz

#### Results: Channel 155

No radiated spurious signals were detected outside the band-edge.

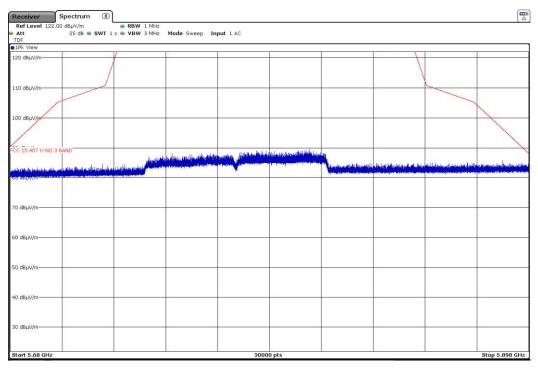
#### Radiated spurious emissions inside adjacent band 5.65 – 5.68 GHz.

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# Radiated spurious emissions inside band 5.68 – 5.898 GHz.

#### Channel 155 (5775MHz):



Note: The signal shown on the plot is the carrier frequency.

#### Radiated spurious emissions inside adjacent band 5.898 – 5.925 GHz.

#### Channel 155 (5775 MHz):

