

Report No. : FR441445-04AN

# FCC Test Report

Equipment : ORiNOCO AP-9100

Brand Name : Proxim

Model No. : AP-9100-XX (XX=US or WD or JP)

Standard : 47 CFR FCC Part 15.407

Operating Band : 5250 MHz - 5350 MHz

5470 MHz - 5725 MHz

FCC Classification: NII

Applicant : PROXIM WIRELESS CORP

47633 Westinghouse Drive Fremont,

CA 94539 United States

Manufacturer : Senao Networks, Inc.

33F, No. 529, Chung Cheng Rd.,

Hsintien, Taipei, Taiwan

Function : ☐ Outdoor AP; ⊠ Indoor AP;

Fixed P2P AP Portable Client

The product sample received on Jul. 10, 2014 and completely tested on Aug. 29, 2014. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Vic Hsiao / Supervisor

Testing Laboratory
1190

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**APPENDIX A. TEST PHOTOS** 

APPENDIX B. PHOTOGRAPHS OF EUT

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## **Summary of Test Result**

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	Conformance Test Specifications				
Report Clause	· IDSCRIPTION				
1.1.2	15.203	Antenna Requirement	Complied		
3.1	15.207	AC Power-line Conducted Emissions	Complied		
3.2	15.407(a)	Emission Bandwidth	Complied		
3.3	15.407(a)	RF Output Power (Maximum Conducted Output Power)	Complied		
3.4	15.407(a)	Peak Power Spectral Density	Complied		
3.5	15.407(b)	Transmitter Bandedge Emissions	Complied		
3.6	15.407(b)	Transmitter Unwanted Emissions	Complied		
3.7	15.407(g)	Frequency Stability	Complied		

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## **Revision History**

Report No.	Version	Description	Issued Date
FR441445-04AN	Rev. 01	Initial issue of report	Jun. 09, 2015

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1 General Description

#### 1.1 Information

#### 1.1.1 RF General Information

	RF General Information						
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	RF Output Power (dBm)	Co-location	
5250-5350		5260-5320	52-64 [4]	3	18.37	Yes	
5470-5725	а	5500-5700	100-140 [8]	3	18.57	Yes	
straddle 5725		5720	144	3	17.39	Yes	
5250-5350		5260-5320	52-64 [4]	3	18.60/18.87	Yes	
5470-5725	n (HT20) ac (VHT20)	5500-5700	100-140 [8]	3	18.93 /18.59	Yes	
straddle 5725	40 (111120)	5720	144	3	17.41/17.47	Yes	
5250-5350	n (HT40)	5270-5310	54-62 [2]	3	21.82/21.79	Yes	
5470-5725	ac (VHT40)	5510-5670	102-134 [3]	3	20.97/20.81	Yes	
straddle 5725		5710	142	3	20.72/20.66	Yes	
5250-5350	ac (VHT80)	5290	58 [1]	3	21.95	Yes	
5470-5725		5530-5610	106-122 [2]	3	20.87	Yes	
straddle 5725		5690	138	3	20.85	Yes	

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- Note 1: RF output power specifies that Maximum Conducted Output Power.
- Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- Note 4: Co-location, Co-location is generally defined as simultaneously transmitting (co-transmitting) antennas within 20 cm of each other. (i.e., EUT has simultaneously co-transmitting that operating 2.4GHz and 5GHz.)
- Note 5: Straddle 5725 means that straddle the boundary between 5470-5725MHz band and 5725-5825MHz band. The maximum conducted output power within each band of operation shall comply with the limits for that band. (e.g., XX / XX = (5470-5725MHz band power / 5725-5825MHz band power).
- Note 6: 802.11ac support straddle channel between 5470-5725MHz band and 5725-5825MHz band.

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#### 1.1.2 Antenna Information

	Antenna Category			
$\boxtimes$	Integral antenna (antenna permanently attached)			
	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.			

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Antenna General Information							
No.	Ant. Cat.	Ant. Type	Gain (dBi)				
1	Integral	PIFA	4.66				
2	Integral	PIFA	5.00				
3	Integral	PIFA	4.87				
	3 Integral PIFA 4.87  Remark: This EUT only suppots 3TX and CDD function in modulation mode: 11 a, 11n and 11ac.						

### 1.1.3 Type of EUT

	Identify EUT				
EUT	Serial Number	N/A			
Pres	sentation of Equipment	☐ Production ; ☐ Pre-Production ; ☐ Prototype			
		Type of EUT			
$\boxtimes$	Stand-alone				
	Combined (EUT where the radio part is fully integrated within another device)				
	Combined Equipment - Brand Name / Model No.:				
	Plug-in radio (EUT intended for a variety of host systems)				
	Host System - Brand Name / Model No.:				
	Other:				

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## 1.1.4 Test Signal Duty Cycle

	Operated Mode for Worst Duty Cycle					
	Operated normally mode for worst duty cycle					
$\boxtimes$	○ Operated test mode for worst duty cycle					
	Test Signal Duty Cycle (x)  Power Duty Factor [dB] – (10 log 1/x)					
$\boxtimes$	97.62% - IEEE 802.11a	0.10				
$\boxtimes$	98.46% - IEEE 802.11n (HT20)	0.07				
$\boxtimes$	96.94% - IEEE 802.11n (HT40)	0.14				
$\boxtimes$	98.48% - IEEE 802.11ac (VHT20)	0.07				
$\boxtimes$	96.94% - IEEE 802.11ac (VHT40)	0.14				
$\boxtimes$	94.00% - IEEE 802.11ac (VHT80)	0.27				

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### 1.1.5 EUT Operational Condition

Supply Voltage		⊠ DC	
Type of DC Source			☐ From Battery
Test Voltage			
Test Climatic	⊠ Tnom (20°C)		☑ Tmin (-20°C)

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### 1.2 Accessories and Support Equipment

Accessories						
	Brand Name	Powertron Electronics Corp.	Model Name	PA1015-2I		
AC Adapter	Power Rating	I/P: 100-240V ~ 50~60Hz 0.4A ; O/P: 12V===1.25A				
	DC Power Cable	1.4 meter, non-shielded cable, wi	th one ferrite co	re		

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Reminder: Regarding to more detail and other information, please refer to user manual.

Support Equipment - RF Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	
1	Notebook	DELL	E5500	NA	

	Support Equipment - AC Conduction & Radiated Emission					
No.	Equipment	Brand Name	Model Name	FCC ID		
1	Notebook	DELL	E5530	R33002		
2	PoE	EnGenius	EPE-48GR	DoC		

### 1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2009
- FCC KDB 789033 D01 v01r04
- FCC KDB 644545 D01 v01r02
- FCC KDB 662911 D01 v02r01

### 1.4 Testing Location Information

	Testing Location										
$\boxtimes$	HWA YA	ADD	:		No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.						
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Test Condition				Test Site No.	Test Engineer	Test Environment					
AC Conduction				CO04-HY	Zeus	25°C / 46%					
RF Conducted				TH01HY	lan	21.9°C / 63%					
Radiated Emission				03CH03-HY	Allen	26°C / 51%					

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1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

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Me	easurement Uncertainty	
Test Item		Uncertainty
AC power-line conducted emissions		±2.3 dB
Emission bandwidth, 26dB bandwidth		±1.4 %
RF output power, conducted		±0.6 dB
Power density, conducted		±0.8 dB
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB
	0.15 – 30 MHz	±0.4 dB
	30 – 1000 MHz	±0.5 dB
	1 – 18 GHz	±0.7 dB
	18 – 40 GHz	±0.8 dB
	40 – 200 GHz	N/A
All emissions, radiated	9 – 150 kHz	±2.5 dB
	0.15 – 30 MHz	±2.3 dB
	30 – 1000 MHz	±2.6 dB
	1 – 18 GHz	±3.6 dB
	18 – 40 GHz	±3.8 dB
	40 – 200 GHz	N/A
Temperature		±0.8 °C
Humidity		±3 %
DC and low frequency voltages		±3 %
Time		±1.4 %
Duty Cycle		±1.4 %

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2 Test Configuration of EUT

## 2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing						
Modulation Mode	Transmit Chains (N <sub>TX</sub> )	Data Rate / MCS	Worst Data Rate / MCS			
11a	3	6-54Mbps	6 Mbps			
HT20	3	MCS 0-23	MCS 0			
HT40	3	MCS 0-23	MCS 0			
VHT20	3	MCS 0-8	MCS 0			
VHT40	3	MCS 0-9	MCS 0			
VHT80	3	MCS 0-9	MCS 0			

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### 2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter (5250-5350MHz band)								
Test Software Version Atheros Radio Test2(ART2-GUI)_ V2.3								
		Test Frequency (MHz)						
Modulation Mode	$N_{TX}$		NCB: 20MH	z	NCB: 40MHz		NCB: 80MHz	
		5260	5300	5320	5270	5310	5290	
11a,6-54Mbps	3	12	12	11.5	-	-	-	
HT20	3	12.5	12.5	12.5	-	-	-	
HT40	3	-	-	-	16	16.5	-	
VHT20	3	13	13	13	-	-	-	
VHT40	3	-	-	-	16	16.5	-	
VHT80	3	-	-	-	-	-	17	

The Worst Case Power Setting Parameter (5470-5725MHz band)												
Test Software Version	Test Software Version Atheros Radio Test2(ART2-GUI)_ V2.3											
		Test Frequency (MHz)										
Modulation Mode	$N_{TX}$		NCB:	20MHz		NCB: 40MHz				NCB: 80MHz		
		5500	5580	5700	5720	5510	5550	5670	5710	5530	5610	5690
11a,6-54Mbps	3	13	13	12.5	12.5	-	-	-	-	-	-	-
HT20	3	13.5	13.5	13.5	13	-	-	-	-	-	-	-
HT40	3	=	-	-	-	16	16	15.5	15.5	-	-	-
VHT20	3	13.5	13.5	13	13	-	-	-	-	-	-	-
VHT40	3	=	-	-	-	16	16	15.5	15.5	-	-	-
VHT80	3	=	-	-	-	-	-	-	-	15.5	16.5	16

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## 2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests						
Tests Item AC power-line conducted emissions						
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz					
Operating Mode	Operating Mode Description					
1	Adapter Mode					
2	PoE Mode					
Operating mode 1 was the worst case and it is recorded in this test report.						

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The Worst Case Mode for Following Conformance Tests					
Tests Item	RF Output Power, Peak Power Spectral Density, Emission Bandwidth, Peak Excursion, Transmitter Conducted Unwanted Emissions Transmitter Conducted Bandedge Emissions				
Test Condition	Conducted measurement at transmit chains				
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80				

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Th	The Worst Case Mode for Following Conformance Tests					
Tests Item	Fransmitter Radiated Unwanted Emissions Fransmitter Radiated Bandedge Emissions					
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.					
User Position	<ul> <li>☐ EUT will be placed in fixed position.</li> <li>☐ EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes.</li> </ul>					
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes.					
Operating Mode <1GHz	Operating Mode Description	n				
1	Adapter Mode					
2	PoE Mode					
Operating mode 2 was the	worst case and it is recorded in this test report.					
Operating Mode >1GHz	Operating Mode Description					
1	Adapter Mode					
Modulation Mode	11a, HT20, HT40, VHT20, VHT40, VHT80					
	X Plane	Y Plane	Z Plane			
Orthogonal Planes of EUT						
Worst Planes of EUT			V			

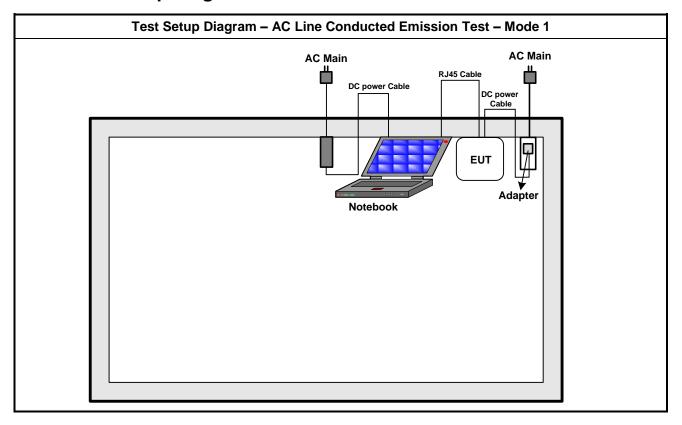
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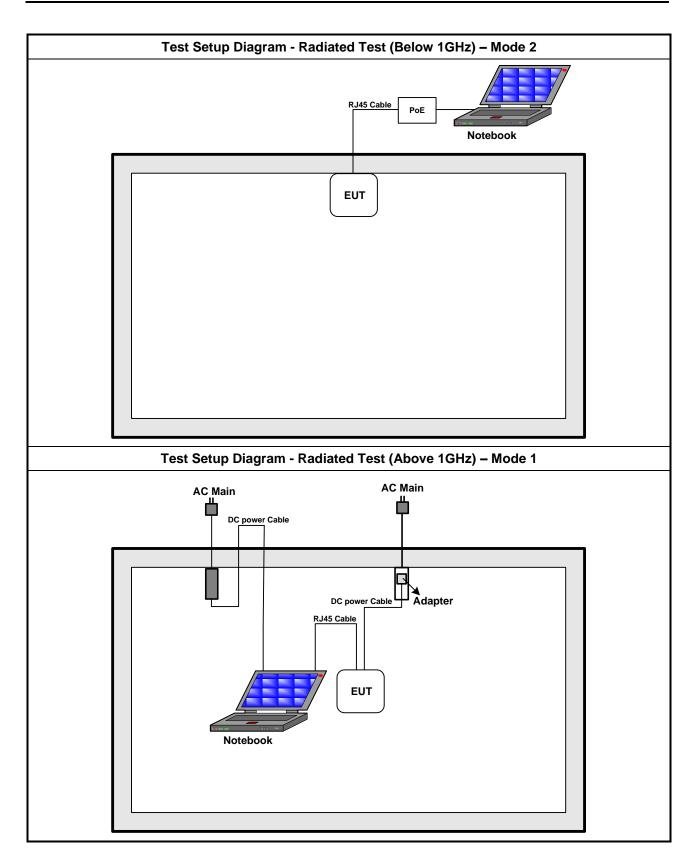
#### 2.4 **Test Setup Diagram**



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#### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

#### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit				
Quasi-Peak	Average			
66 - 56 *	56 - 46 *			
56	46			
60	50			
	<b>Quasi-Peak</b> 66 - 56 * 56			

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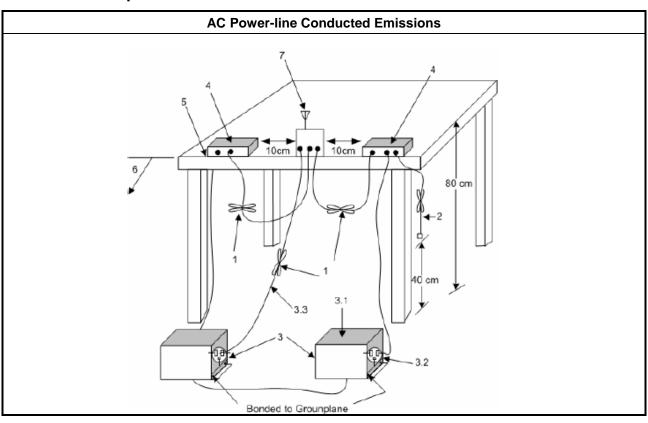
#### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.1.3 Test Procedures

	Test Method
$\boxtimes$	Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions.

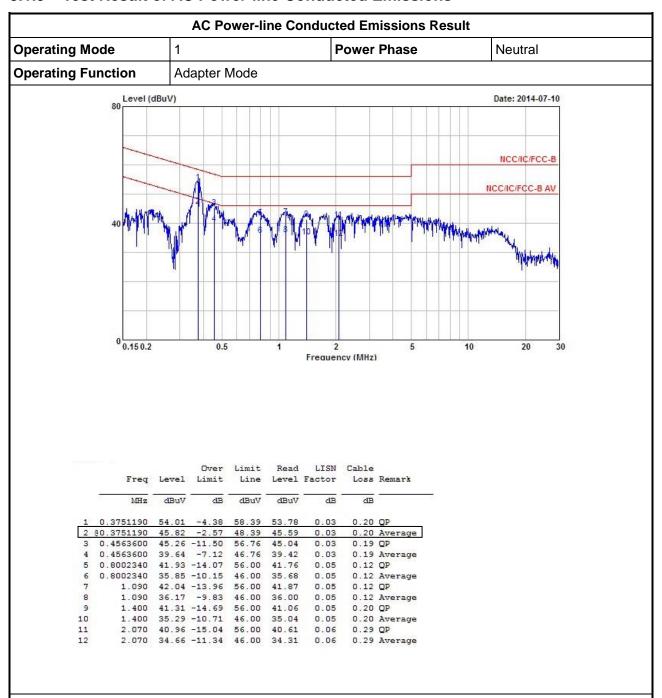
#### 3.1.4 Test Setup



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#### 3.1.5 Test Result of AC Power-line Conducted Emissions



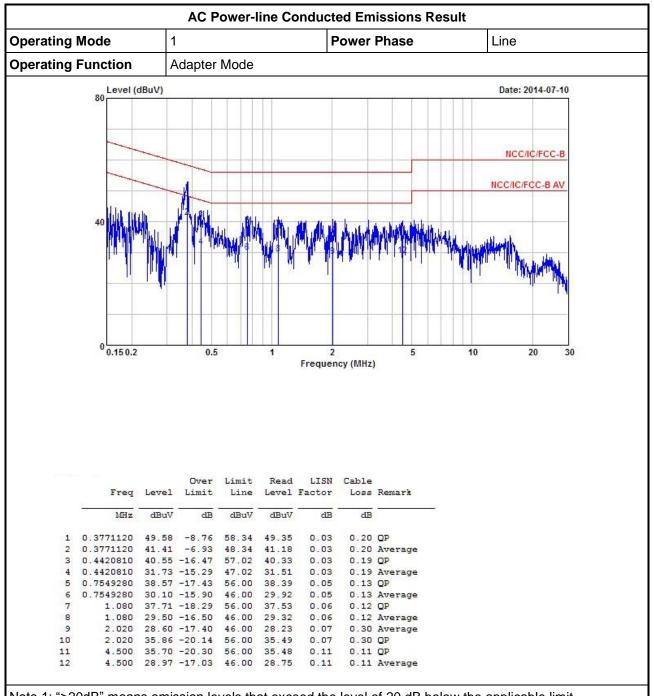
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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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#### 3.2 Emission Bandwidth

#### 3.2.1 Emission Bandwidth Limit

	Emission Bandwidth Limit					
UN	JNII Devices					
	For the 5.15-5.25 GHz band, N/A					
$\boxtimes$	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.					
$\boxtimes$	For the $5.47-5.725$ GHz band, the maximum conducted output power shall not exceed the lesser of $250$ mW or $11$ dBm + $10$ log B, where B is the $26$ dB emission bandwidth in MHz.					
	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.					

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#### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.2.3 Test Procedures

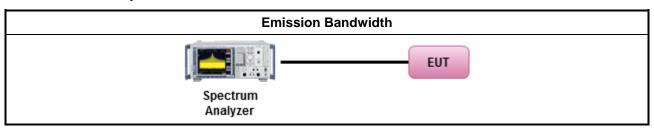
			Test Method
$\boxtimes$	For	the e	mission bandwidth shall be measured using one of the options below:
	$\boxtimes$	Ref	er as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
		Ref	er as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
		Ref	er as IC RSS-Gen, clause 4.6 for bandwidth testing.
$\boxtimes$	For	cond	ucted measurement.
		The	EUT supports single transmit chain and measurements performed on this transmit chain.
		The	EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
	$\boxtimes$	The	EUT supports multiple transmit chains using options given below:
			Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1.
			Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains.

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### 3.2.4 Test Setup



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#### 3.2.5 Test Result of Emission Bandwidth

UNII Emission Bandwidth Result (5250-5350MHz band)										
Condit	ion			Emission Bandwidth (MHz)						
Modulation Mode	N.	Freq.	!	99% Bandwidth	1	2	26dB Bandwidt	h		
wodulation wode	N <sub>TX</sub>	(MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 1	Chain Port 2	Chain Port 3		
11a	3	5260	16.64	16.64	16.84	20.87	20.35	19.87		
11a	3	5300	16.61	16.71	16.56	19.62	20.35	20.75		
11a	3	5320	16.49	16.64	16.76	19.75	20.25	20.37		
HT20	3	5260	18.01	17.94	17.76	21.02	20.82	21.27		
HT20	3	5300	17.94	17.81	17.79	21.35	20.92	20.52		
HT20	3	5320	17.71	17.86	17.84	20.75	21.10	20.97		
HT40	3	5270	36.86	36.62	36.62	45.32	44.16	43.76		
HT40	3	5310	36.70	36.82	36.70	44.72	45.24	43.92		
VHT20	3	5260	17.76	17.84	17.74	20.70	21.10	20.85		
VHT20	3	5300	17.91	17.84	17.96	21.05	20.87	21.45		
VHT20	3	5320	17.61	17.96	17.86	20.00	21.15	21.05		
VHT40	3	5270	36.54	36.50	36.66	44.04	43.56	43.60		
VHT40	3	5310	36.70	36.58	36.58	44.00	45.64	44.44		
VHT80	3	5290	75.72	75.96	75.80	86.48	85.28	86.00		
Result				Complied						

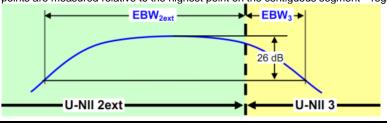
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		UI	NII Emission Ba	ndwidth Resul	t (5470-5725MF	Iz band)				
Condit	ion			Emission Bandwidth (MHz)						
Modulation Mode	N <sub>TX</sub>	Freq.		99% Bandwidth	1	2	26dB Bandwidt	h		
		(MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Chain Port 1	Chain Port 2	Chain Port 3		
11a	3	5500	16.79	16.51	16.51	20.15	19.02	20.40		
11a	3	5580	17.01	16.71	16.64	20.85	19.95	20.97		
11a	3	5700	16.61	16.59	16.51	20.45	20.12	19.50		
11a	3	5720	16.61	16.64	16.79	19.82	20.07	20.47		
HT20	3	5500	17.74	17.69	17.86	22.37	22.82	22.60		
HT20	3	5580	17.74	17.76	18.01	20.50	20.35	21.10		
HT20	3	5700	17.79	17.69	17.76	21.35	20.75	20.57		
HT20	3	5720	17.89	17.76	17.86	21.32	20.50	20.95		
HT40	3	5510	36.46	36.58	36.62	43.60	43.40	43.64		
HT40	3	5550	36.54	36.82	36.58	44.84	45.08	43.56		
HT40	3	5670	36.58	36.54	36.66	43.92	43.76	43.68		
HT40	3	5710	36.50	36.70	36.70	45.60	45.16	45.40		
VHT20	3	5500	17.69	17.81	17.79	21.02	20.50	21.05		
VHT20	3	5580	17.99	17.74	17.84	20.75	20.62	21.22		
VHT20	3	5700	17.74	17.96	17.91	21.67	21.47	21.02		
VHT20	3	5720	17.76	17.86	17.86	20.60	21.32	21.02		
VHT40	3	5510	36.74	36.70	36.54	45.00	44.28	45.40		
VHT40	3	5550	36.58	36.66	36.50	46.12	43.04	44.68		
VHT40	3	5670	36.58	36.66	36.58	43.84	43.60	45.72		
VHT40	3	5710	36.50	36.86	36.50	44.32	44.72	45.04		
VHT80	3	5530	75.96	75.96	75.64	85.12	85.20	86.72		
VHT80	3	5610	75.80	75.80	75.80	85.12	85.76	84.08		
VHT80	3	5690	75.80	75.80	75.72	84.72	83.28	85.68		
Result					Com	plied				

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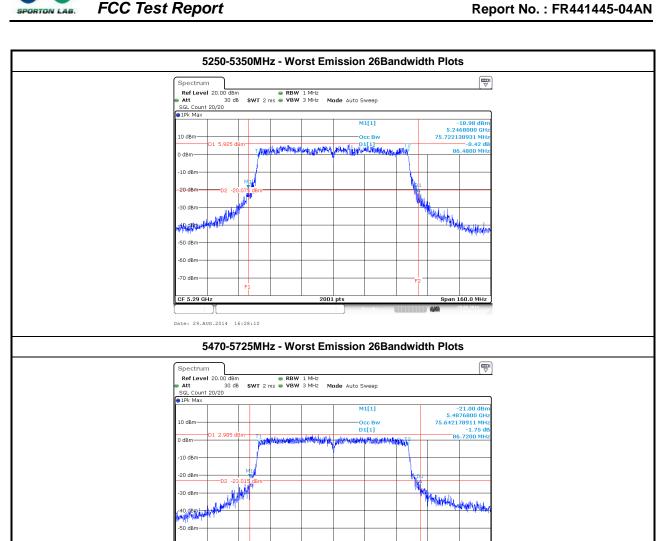
<sup>\* =</sup> Band-crossing channel. For an emission that crosses the boundary between two adjacent U-NII bands, the boundary frequency between the bands serves as one edge for defining the portion of the EBW that falls within a particular U-NII band; however, the -26 dB points are measured relative to the highest point on the contiguous segment—regardless of which band contains that highest point.



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-70 dBm-

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## 3.3 RF Output Power

#### 3.3.1 RF Output Power Limit

	Maximum Conducted Output Power Limit
UNI	Il Devices
	For the 5.15-5.25 GHz band:
	Outdoor AP: the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 - ( $G_{TX}$ - 6). e.i.r.p. at any elevation angle above 30 degrees $\leq$ 125mW [21dBm]
	Indoor AP: the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
	Point-to-point AP: the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$ .
	Mobile or Portable Client: the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .
	For the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 - ( $G_{TX}$ - 6).
$\boxtimes$	For the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .
	For the 5.725-5.85 GHz band:
	Point-to-multipoint systems (P2M): the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ .
	Point-to-point systems (P2P): the maximum conducted output power (P <sub>Out</sub> ) shall not exceed the lesser of 1 W.
	t = maximum conducted output power in dBm, = the maximum transmitting antenna directional gain in dBi.

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### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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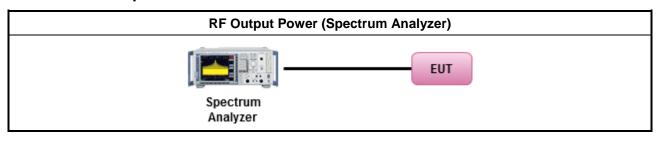


#### 3.3.3 Test Procedures

		Test Method
$\boxtimes$	Max	imum Conducted Output Power
	[duty	y cycle ≥ 98% or external video / power trigger]
	$\boxtimes$	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
		Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
	duty	cycle < 98% and average over on/off periods with duty factor
	$\boxtimes$	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
		Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wid	eband RF power meter and average over on/off periods with duty factor
		Refer as FCC KDB 789033, clause E Method PM (using an RF average power meter).
$\boxtimes$	For	conducted measurement.
		The EUT supports single transmit chain and measurements performed on this transmit chain.
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.
		The EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
		If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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### 3.3.4 Test Setup



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#### 3.3.5 Directional Gain for Power Measurement

	Dire	ectional Gain (D	G) Result		
Transmit Chains No.	ı	1	2	3	-
Maximum G <sub>ANT</sub> (dBi)		4.66	5.00	4.87	-
Modulation Mode	DG (dBi)	N <sub>TX</sub>	N <sub>ss</sub> (Min.)	STBC	Array Gain (dB)
11a,6-54Mbps	4.85	3	1/2/3	-	0 (Note 4)
HT20,M0-23	4.85	3	1/2/3	-	0 (Note 4)
HT40,M0-23	4.85	3	1/2/3	-	0 (Note 4)
VHT20,M0-8	4.85	3	1/2/3	-	0 (Note 4)
VHT40,M0-9	4.85	3	1/2/3	-	0 (Note 4)
VHT80,M0-9	4.85	3	1/2/3	-	0 (Note 4)

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- Note 1: For all transmitter outputs with equal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain =  $G_{ANT}$  + 10 log( $N_{TX}$ ) All transmit signals are completely uncorrelated, Directional Gain =  $G_{ANT}$
- Note 2: For all transmitter outputs with unequal antenna gains, directional gain is to be computed as follows: Any transmit signals are correlated, Directional Gain = 10 log[(10<sup>G1/20</sup> +... + 10<sup>GN/20</sup>)<sup>2</sup> /N<sub>TX</sub>]

  All transmit signals are completely uncorrelated, Directional Gain = 10 log[(10<sup>G1/10</sup> +... + 10<sup>GN/10)</sup>/N<sub>TX</sub>]
- Note 3: For Spatial Multiplexing, Directional Gain (DG) =  $G_{ANT}$  + 10 log( $N_{TX}/N_{SS}$ ), where Nss = the number of independent spatial streams data.
- Note 4: For CDD transmissions, directional gain is calculated as power measurements: Directional Gain (DG) =  $G_{ANT}$  + Array Gain, where Array Gain is as follows: Array Gain = 0 dB (i.e., no array gain) for  $N_{TX} \le 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq$  40 MHz for any N<sub>TX</sub>;

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3.3.6 Test Result of Maximum Conducted Output Power

	Maximum Conducted Output Power (5250-5350MHz band)							
		- Frank	Output Power (dBm)				Antenna Gain	
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	(dBi)	Power Limit
11a	3	5260	14.09	13.16	12.90	18.19	4.85	20.98
11a	3	5300	14.13	13.55	13.02	18.37	4.85	20.93
11a	3	5320	13.59	12.92	12.52	17.81	4.85	20.96
HT20	3	5260	14.36	13.63	13.45	18.60	4.85	21.18
HT20	3	5300	13.90	13.32	13.08	18.22	4.85	21.12
HT20	3	5320	13.96	13.53	13.23	18.35	4.85	21.17
HT40	3	5270	16.38	16.95	16.49	21.38	4.85	24.00
HT40	3	5310	16.82	17.29	17.04	21.82	4.85	24.00
VHT20	3	5260	13.85	14.18	13.78	18.71	4.85	21.16
VHT20	3	5300	14.02	14.39	13.89	18.87	4.85	21.20
VHT20	3	5320	13.88	14.38	13.87	18.82	4.85	21.01
VHT40	3	5270	17.13	16.87	16.27	21.54	4.85	24.00
VHT40	3	5310	17.04	17.27	16.73	21.79	4.85	24.00
VHT80	3	5290	17.50	17.22	16.80	21.95	4.85	24.00
Resu				(	Complied			

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### FCC Test Report

	Maximum Conducted Output Power (5470-5725MHz band)							
		Freq.	Output Power(dBm)				Antenna Gain	
Modulation Mode	N <sub>TX</sub>	(MHz)	Chain Port 1	Chain Port 2	Chain Port 3	Sum Chain	(dBi)	Power Limit
11a	3	5500	14.32	13.38	13.12	18.41	4.85	20.79
11a	3	5580	14.43	13.55	13.31	18.57	4.85	21.00
11a	3	5700	14.71	12.66	13.34	18.43	4.85	20.90
11a	3	5720	13.76	11.54	12.25	17.39	4.85	20.97
HT20	3	5500	14.37	13.68	13.42	18.61	4.85	21.00
HT20	3	5580	13.75	13.82	13.73	18.54	4.85	21.00
HT20	3	5700	14.47	13.70	14.27	18.93	4.85	21.00
HT20	3	5720	13.16	12.14	12.57	17.41	4.85	21.00
HT40	3	5510	16.40	16.01	16.01	20.91	4.85	21.00
HT40	3	5550	16.34	15.80	16.05	20.84	4.85	21.00
HT40	3	5670	16.69	15.87	16.02	20.97	4.85	21.00
HT40	3	5710	16.91	15.27	15.48	20.72	4.85	21.00
VHT20	3	5500	13.91	13.95	13.59	18.59	4.85	21.00
VHT20	3	5580	13.77	13.75	13.59	18.47	4.85	21.00
VHT20	3	5700	14.61	13.06	13.49	18.54	4.85	21.00
VHT20	3	5720	13.57	11.90	12.46	17.47	4.85	21.00
VHT40	3	5510	16.54	15.78	15.70	20.79	4.85	21.00
VHT40	3	5550	16.37	15.76	15.80	20.75	4.85	21.00
VHT40,	3	5670	16.53	15.69	15.86	20.81	4.85	21.00
VHT40,	3	5710	16.89	15.18	15.40	20.66	4.85	21.00
VHT80	3	5530	15.18	14.98	14.72	19.73	4.85	21.00
VHT80	3	5610	16.37	15.88	16.04	20.87	4.85	21.00
VHT80	3	5690	16.85	15.65	15.64	20.85	4.85	21.00
Result				•		C	Complied	

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5250-5350MHz - Worst RF Output Power Plots Spectrum CF 5.29 GHz Span 90.0 MHz 1001 pts Bandwidth 80.00 MHz Power 17.23 dBm Tx Total 17.23 dBm Type Ref Trc M1 D1 M1 M2 Date: 29.AUG.2014 16:27:39 5470-5725MHz - Worst RF Output Power Plots Spectrum Offset 3.21 dB • RBW 1 MHz SWT 1 ms • VBW 3 MHz Bandwidth 40.00 MHz Power 16.55 dBm Tx Total 16.55 dBm

Note 1: RF Output Power Plots w/o Duty Factor

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## 3.4 Peak Power Spectral Density

#### 3.4.1 Peak Power Spectral Density Limit

		Peak Power Spectral Density Limit
UNI	I Dev	rices
	For t	the 5.15-5.25 GHz band:
		Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$ .
		Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$ .
		Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$ .
		Mobile or Portable Client: the peak power spectral density (PPSD) $\leq$ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then PPSD= 11 – $(G_{TX} - 6)$
$\boxtimes$		the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq$ 11 dBm/MHz. If $G_{TX} > 6$ dBi, PPSD= 11 – ( $G_{TX} - 6$ ).
$\boxtimes$		the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq$ 11 dBm/MHz. If $G_{TX} > 6$ dBi, PPSD= 11 – ( $G_{TX} - 6$ ).
	For t	the 5.725-5.85 GHz band:
		Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) $\leq$ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then PPSD= $30 - (G_{TX} - 6)$ .
		Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
pow	er sh	peak power spectral density that he same method as used to determine the conducted output hall be used to determine the power spectral density. And power spectral density in dBm/MHz e maximum transmitting antenna directional gain in dBi.

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### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

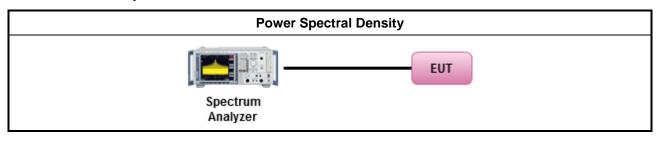
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#### 3.4.3 Test Procedures

		Test Method							
$\boxtimes$	outp func	eak power spectral density procedures that the same method as used to determine the conducted atput power shall be used to determine the peak power spectral density and use the peak search action on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density all be measured using below options:							
		Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth							
	[duty	y cycle ≥ 98% or external video / power trigger]							
	$\boxtimes$	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).							
		Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)							
	duty	cycle < 98% and average over on/off periods with duty factor							
	$\boxtimes$	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).							
		Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)							
$\boxtimes$	For	conducted measurement.							
		The EUT supports single transmit chain and measurements performed on this transmit chain.							
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.							
	$\boxtimes$	The EUT supports multiple transmit chains using options given below:							
		Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.							
		Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.							
		If multiple transmit chains, EIRP PPSD calculation could be following as methods: PPSD <sub>total</sub> = PPSD <sub>1</sub> + PPSD <sub>2</sub> + + PPSD <sub>n</sub> (calculated in linear unit [mW] and transfer to log unit [dBm]) EIRP <sub>total</sub> = PPSD <sub>total</sub> + DG							
		Each individually PPSD plots refer as test report clause 3.3.5 with each individually PPSD plots.							

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### 3.4.4 Test Setup



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### 3.4.5 Test Result of Peak Power Spectral Density

		Peak P	ower Spectral Density Resul	t (5250-5350MHz band)	
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Peak Power Spectral Density (dBm)	PSD Limit	PSD-DG (dBi)
11a	3	5260	6.98	7.38	9.62
11a	3	5300	7.35	7.38	9.62
11a	3	5320	6.58	7.38	9.62
HT20	3	5260	7.19	7.38	9.62
HT20	3	5300	6.90	7.38	9.62
HT20	3	5320	7.05	7.38	9.62
HT40	3	5270	6.87	7.38	9.62
HT40	3	5310	7.37	7.38	9.62
VHT20	3	5260	7.05	7.38	9.62
VHT20	3	5300	7.33	7.38	9.62
VHT20	3	5320	7.14	7.38	9.62
VHT40	3	5270	7.12	7.38	9.62
VHT40	3	5310	7.14	7.38	9.62
VHT80	3	5290	4.48	7.38	9.62
Resu	ult			Complied	

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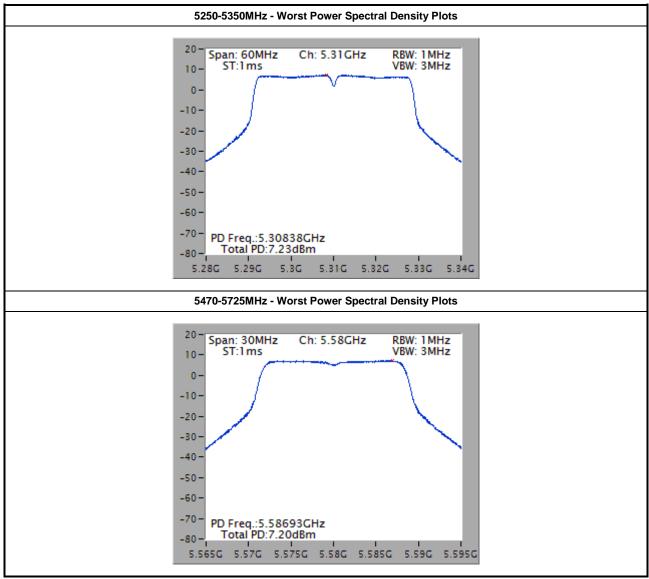
### FCC Test Report

	Peak Power Spectral Density Result (5470-5725MHz band)						
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Peak Power Spectral Density (dBm)	PSD Limit	PSD-DG (dBi)		
11a	3	5500	7.20	7.38	9.62		
11a	3	5580	7.30	7.38	9.62		
11a	3	5700	7.26	7.38	9.62		
11a	3	5720	7.18	7.38	9.62		
HT20	3	5500	7.22	7.38	9.62		
HT20	3	5580	7.12	7.38	9.62		
HT20	3	5700	7.30	7.38	9.62		
HT20	3	5720	6.86	7.38	9.62		
HT40	3	5510	6.36	7.38	9.62		
HT40	3	5550	6.20	7.38	9.62		
HT40	3	5670	6.58	7.38	9.62		
HT40	3	5710	6.51	7.38	9.62		
VHT20	3	5500	7.16	7.38	9.62		
VHT20	3	5580	7.07	7.38	9.62		
VHT20	3	5700	6.98	7.38	9.62		
VHT20	3	5720	7.10	7.38	9.62		
VHT40	3	5510	6.33	7.38	9.62		
VHT40	3	5550	6.19	7.38	9.62		
VHT40	3	5670	6.18	7.38	9.62		
VHT40	3	5710	6.38	7.38	9.62		
VHT80	3	5530	2.02	7.38	9.62		
VHT80	3	5610	3.13	7.38	9.62		
VHT80	3	5690	3.19	7.38	9.62		
Resu	ılt			Complied			

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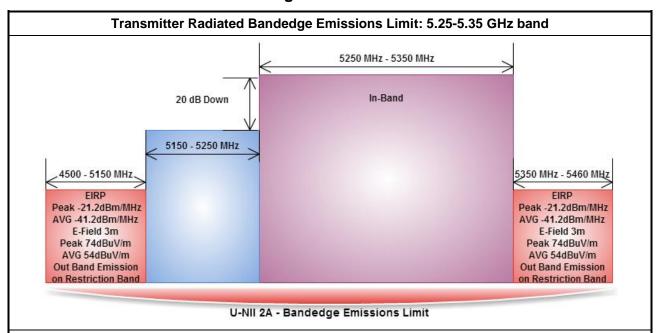
Note 1: Power Density Plots w/o Duty Factor



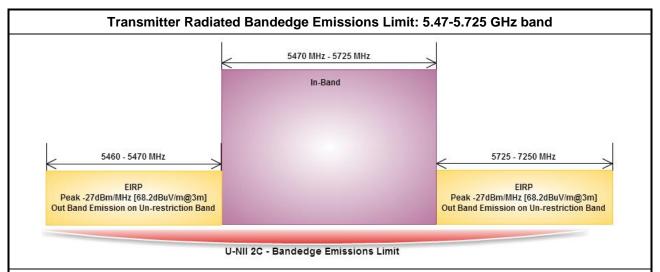
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#### **Transmitter Bandedge Emissions** 3.5

#### **Transmitter Radiated Bandedge Emissions Limit** 3.5.1



Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.



Refer as FCC KDB 789033, G)2)c)(i) specifying that if a non-restricted-band out-of-band emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm or -17 dBm peak emission limit. Reason for change: to ensure that emission requirements in the non-restricted bands are not more stringent than those in the restricted bands.

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#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

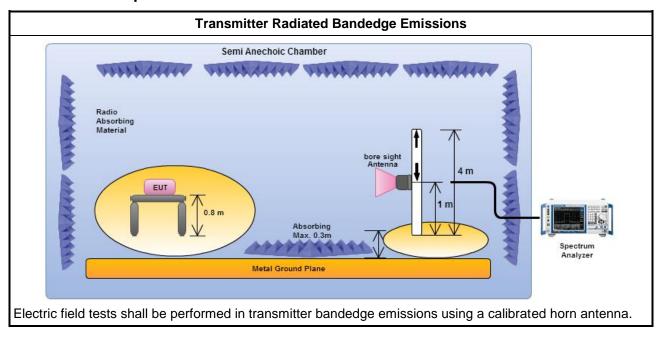
	Test Method
$\boxtimes$	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
$\boxtimes$	Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	If EUT operate in adjacent contiguous bands, bandedge testing performed at the lowest frequency channel at lower-band and highest frequency channel at higher-band. Transmitter in-band emissions will consist of adjacent contiguous bands (e.g., IEEE 802.11ac VHT160 The lowest frequency channel at lower-band and highest frequency channel at higher-band in-band emissions will consist of two adjacent contiguous bands.)
	Operating in 5.15-5.25 GHz band (lower-band) and 5.25-5.35 GHz band (higher-band).
	Operating in 5.47-5.725 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).
	If EUT operate in individual non-contiguous bands, bandedge testing performed at the lowest frequency channel and highest frequency channel within lower-band and higher-band. (e.g., (e.g., IEEE 802.11ac VHT160)
	Operating in 5.25-5.35 GHz band (lower-band) and 5.47-5.725 GHz band (higher-band).
	Operating in 5.15-5.25 GHz band (lower-band) and 5.725-5.825 GHz band (higher-band).
$\boxtimes$	For the transmitter unwanted emissions shall be measured using following options below:
	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
	Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
	$\boxtimes$ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
$\boxtimes$	For the transmitter bandedge emissions shall be measured using following options below:
	Refer as FCC KDB 789033, clause H)3)d) for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.
	Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.
$\boxtimes$	For radiated measurement, refer as ANSI C63.10, clause 6.6. Test distance is 3m.
	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 3m, because the instrumentation noise floor is typically close to the radiated emission limit.

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## FCC Test Report

#### **Test Setup** 3.5.4



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### 3.5.5 Transmitter Radiated Bandedge Emissions (with Antenna)

<b>Ν</b> <sub>τχ</sub>	Freq. (MHz)	Measure Distance (m)	Freq. (MHz)	Level	Limit	Freg.	Level	Limit	
3		` '	PK	(dBuV/m) PK	(dBuV/m) PK	(MHz) AV	(dBuV/m) AV	Limit (dBuV/m) AV	Pol.
	5260	3	5132.40	61.85	74	5107.20	48.16	54	Н
3	5320	3	5350.04	69.29	74	5350.04	52.60	54	Н
3	5260	3	5101.20	60.57	74	5101.80	47.67	54	Н
3	5320	3	5351.02	69.88	74	5350.00	52.28	54	Н
3	5270	3	5122.20	61.01	74	5113.20	48.19	54	Н
3	5310	3	5350.84	68.46	74	5350.48	52.56	54	Н
3	5260	3	5143.20	63.60	74	5148.00	49.18	54	Н
3	5320	3	5350.46	69.50	74	5350.00	52.42	54	Н
3	5270	3	5127.00	61.56	74	5119.80	48.28	54	Н
3	5310	3	5350.12	67.29	74	5351.02	52.36	54	Н
3	5290	3	5128.80	60.79	74	5135.40	47.55	54	Н
3	5290	3	5350.50	67.74	74	5350.00	52.67	54	Н
	3 3 3 3 3 3 3 3 3 3 3	3 5320 3 5270 3 5310 3 5260 3 5320 3 5270 3 5310 3 5290 3 5290	3     5320     3       3     5270     3       3     5310     3       3     5260     3       3     5320     3       3     5270     3       3     5310     3       3     5290     3       3     5290     3	3     5320     3     5351.02       3     5270     3     5122.20       3     5310     3     5350.84       3     5260     3     5143.20       3     5320     3     5350.46       3     5270     3     5127.00       3     5310     3     5350.12       3     5290     3     5128.80       3     5290     3     5350.50	3     5320     3     5351.02     69.88       3     5270     3     5122.20     61.01       3     5310     3     5350.84     68.46       3     5260     3     5143.20     63.60       3     5320     3     5350.46     69.50       3     5270     3     5127.00     61.56       3     5310     3     5350.12     67.29       3     5290     3     5128.80     60.79	3     5320     3     5351.02     69.88     74       3     5270     3     5122.20     61.01     74       3     5310     3     5350.84     68.46     74       3     5260     3     5143.20     63.60     74       3     5320     3     5350.46     69.50     74       3     5270     3     5127.00     61.56     74       3     5310     3     5350.12     67.29     74       3     5290     3     5128.80     60.79     74       3     5290     3     5350.50     67.74     74	3     5320     3     5351.02     69.88     74     5350.00       3     5270     3     5122.20     61.01     74     5113.20       3     5310     3     5350.84     68.46     74     5350.48       3     5260     3     5143.20     63.60     74     5148.00       3     5320     3     5350.46     69.50     74     5350.00       3     5270     3     5127.00     61.56     74     5119.80       3     5310     3     5350.12     67.29     74     5351.02       3     5290     3     5128.80     60.79     74     5135.40       3     5290     3     5350.50     67.74     74     5350.00	3     5320     3     5351.02     69.88     74     5350.00     52.28       3     5270     3     5122.20     61.01     74     5113.20     48.19       3     5310     3     5350.84     68.46     74     5350.48     52.56       3     5260     3     5143.20     63.60     74     5148.00     49.18       3     5320     3     5350.46     69.50     74     5350.00     52.42       3     5270     3     5127.00     61.56     74     5119.80     48.28       3     5310     3     5350.12     67.29     74     5351.02     52.36       3     5290     3     5128.80     60.79     74     5135.40     47.55       3     5290     3     5350.50     67.74     74     5350.00     52.67	3     5320     3     5351.02     69.88     74     5350.00     52.28     54       3     5270     3     5122.20     61.01     74     5113.20     48.19     54       3     5310     3     5350.84     68.46     74     5350.48     52.56     54       3     5260     3     5143.20     63.60     74     5148.00     49.18     54       3     5320     3     5350.46     69.50     74     5350.00     52.42     54       3     5270     3     5127.00     61.56     74     5119.80     48.28     54       3     5310     3     5350.12     67.29     74     5351.02     52.36     54       3     5290     3     5128.80     60.79     74     5135.40     47.55     54       3     5290     3     5350.50     67.74     74     5350.00     52.67     54

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U-NII 5470-5725MHz Transmitter Radiated Bandedge (with Antenna)										
Modulation Mode	N <sub>TX</sub>	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Pol.			
11a	3	5500	3	5469.68	67.25	74.0	Н			
11a	3	5700	3	5725.88	66.63	68.2	Н			
11a	3	5720	3	5874.92	61.25	68.2	Н			
HT20	3	5500	3	5468.72	71.44	74.0	Н			
HT20	3	5700	3	5725.76	66.75	68.2	Н			
HT20	3	5720	3	5842.72	61.91	68.2	Н			
HT40	3	5510	3	5469.40	66.56	74.0	Н			
HT40	3	5670	3	5727.20	66.88	68.2	Н			
HT40	3	5710	3	5912.64	61.52	68.2	Н			
VHT20	3	5500	3	5468.72	69.51	74.0	Н			
VHT20	3	5700	3	5725.88	66.73	68.2	Н			
VHT20	3	5720	3	5825.70	67.14	68.2	Н			
VHT40	3	5510	3	5469.99	67.34	74.0	Н			
VHT40	3	5670	3	5725.20	66.77	68.2	Н			
VHT40	3	5710	3	5827.08	66.85	68.2	Н			
VHT80	3	5530	3	5469.68	67.82	74.0	Н			
VHT80	3	5690	3	5827.60	65.77	68.2	Н			

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3.6 Transmitter Unwanted Emissions

#### 3.6.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emiss	Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit											
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)									
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300									
0.490~1.705	24000/F(kHz)	33.8 - 23	30									
1.705~30.0	30	29	30									
30~88	100	40	3									
88~216	150	43.5	3									
216~960	200	46	3									
Above 960	500	54	3									

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Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

	Un-restricted band emissions above 1GHz Limit									
Operating Band	Limit									
5.15 - 5.25 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]									
5.25 - 5.35 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]									
5.47 - 5.725 GHz	e.i.r.p27 dBm [68.2 dBuV/m@3m]									
5.725 - 5.85 GHz	5.715 5.725 GHz: e.i.r.p17 dBm [78.2 dBuV/m@3m] 5.85 5.86 GHz: e.i.r.p17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p27 dBm [68.2 dBuV/m@3m]									

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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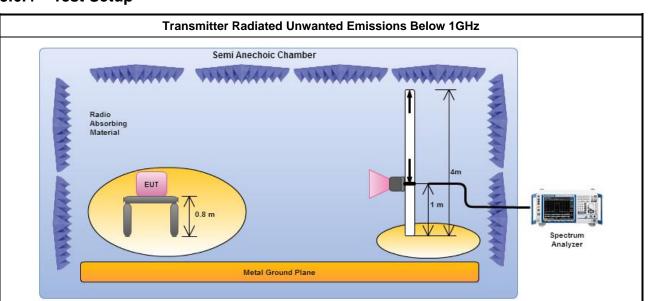
# 3.6.3 Test Procedures

	Test Method
	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
$\boxtimes$	For the transmitter unwanted emissions shall be measured using following options below:
	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
	Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
$\boxtimes$	For radiated measurement.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	$oxed{\boxtimes}$ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is 3m.
$\boxtimes$	The any unwanted emissions level shall not exceed the fundamental emission level.
$\boxtimes$	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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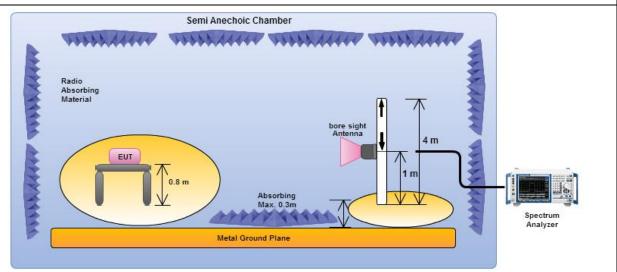
# 3.6.4 Test Setup



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Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

#### **Transmitter Radiated Unwanted Emissions Above 1GHz**



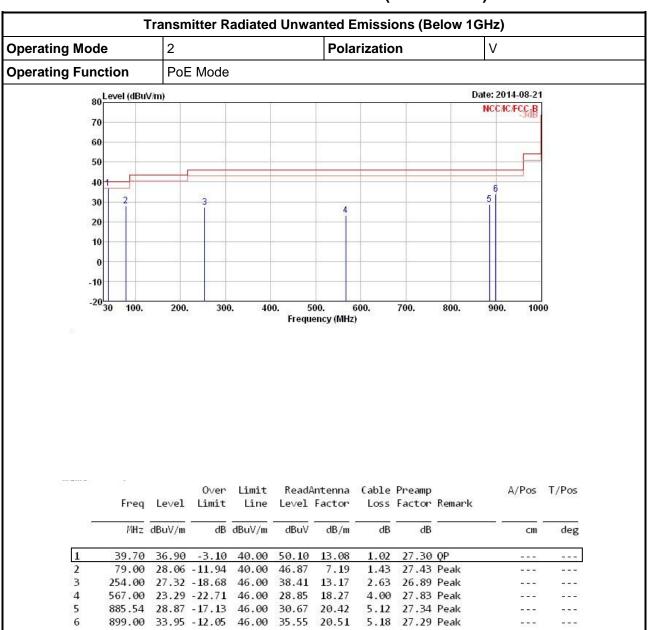
Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

#### 3.6.5 Transmitter Radiated Unwanted Emissions-with Antenna (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

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#### 3.6.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)



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Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

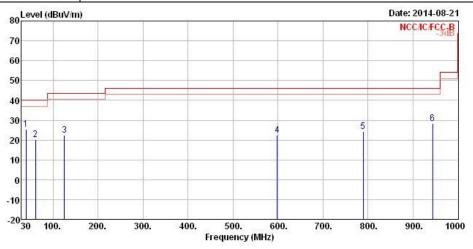
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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eq Le Hz dBu	vel	Limit	Line	Level	Factor	Loss	Factor	Remark		
łz dBu								rychiel K		
	V/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>	Cm	deg
70 25	.47	-14.53	40.00	38.67	13.08	1.02	27.30	Peak	5.5.5	355
34 20	.26	-19.74	40.00	39.61	6.85	1.26	27.46	Peak		555
36 22	.34	-21.16	43.50	35.20	12.49	1.83	27.18	Peak		
00 22	.45	-23.55	46.00	27.66	18.41	4.14	27.76	Peak	222	2(2(2)
00 24	.38	-21.62	46.00	27.46	19.71	4.86	27.65	Peak	5.5.5	200
74 28	. 17	- 17.83	46.00	29.40	20.81	5.31	27.35	Peak	5,555	555
֡	04 20 06 22 00 22 00 24	20.26 20.34 20.234 20.234 20.238	04 20.26 -19.74 06 22.34 -21.16 00 22.45 -23.55 00 24.38 -21.62	24     20.26     -19.74     40.00       26     22.34     -21.16     43.50       20     22.45     -23.55     46.00       20     24.38     -21.62     46.00	04     20.26     -19.74     40.00     39.61       06     22.34     -21.16     43.50     35.20       00     22.45     -23.55     46.00     27.66       00     24.38     -21.62     46.00     27.46	04     20.26 - 19.74     40.00     39.61     6.85       06     22.34 - 21.16     43.50     35.20     12.49       00     22.45 - 23.55     46.00     27.66     18.41       00     24.38 - 21.62     46.00     27.46     19.71	04     20.26     -19.74     40.00     39.61     6.85     1.26       06     22.34     -21.16     43.50     35.20     12.49     1.83       00     22.45     -23.55     46.00     27.66     18.41     4.14       00     24.38     -21.62     46.00     27.46     19.71     4.86	04     20.26     -19.74     40.00     39.61     6.85     1.26     27.46       06     22.34     -21.16     43.50     35.20     12.49     1.83     27.18       09     22.45     -23.55     46.00     27.66     18.41     4.14     27.76       09     24.38     -21.62     46.00     27.46     19.71     4.86     27.65	04 20.26 -19.74 40.00 39.61 6.85 1.26 27.46 Peak 06 22.34 -21.16 43.50 35.20 12.49 1.83 27.18 Peak 07 22.45 -23.55 46.00 27.66 18.41 4.14 27.76 Peak 08 24.38 -21.62 46.00 27.46 19.71 4.86 27.65 Peak	04 20.26 -19.74 40.00 39.61 6.85 1.26 27.46 Peak 06 22.34 -21.16 43.50 35.20 12.49 1.83 27.18 Peak 07 22.45 -23.55 46.00 27.66 18.41 4.14 27.76 Peak 08 24.38 -21.62 46.00 27.46 19.71 4.86 27.65 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

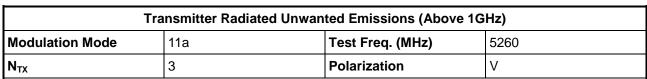
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical).

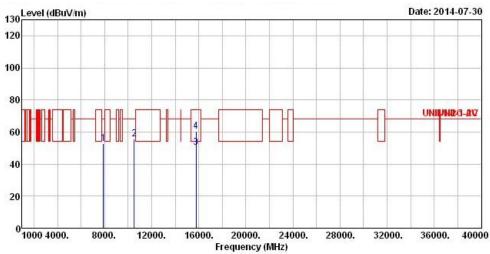
Note 4: No level of unwanted emissions exceeds the level of the fundamental emission.

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#### Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5250-5350MHz

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	Freq	Level	0∨er Limit			Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	8. <del>)</del>	cm	deg
1	7908.00	52.82	- 15 . 38	68.20	40.46	37.00	8.14	32.78	Peak	555	
2	10520.00	55.71	-12.49	68.20	40.35	38.99	9.02	32.65	Peak	2(2(2)	
3	15780.00	50.38	-3.62	54.00	33.80	37.26	11.59	32.27	Average	222	
4	15780.00	60.64	-13.36	74.00	44.06	37.26	11.59	32.27	Peak		7.7.7

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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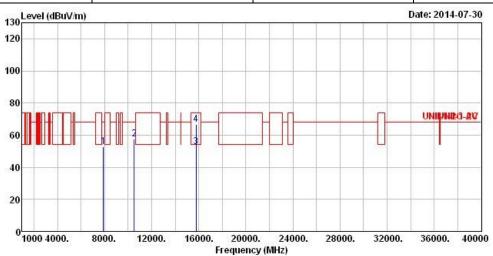


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5260

N<sub>TX</sub> 3 Polarization H

Report No.: FR441445-04AN



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	15	cm	deg
1	7908.00	52.59	-15.61	68.20	40.23	37.00	8.14	32.78	Peak	777	5.55
2	10520.00	57.34	-10.86	68.20	41.98	38.99	9.02	32.65	Peak	5(5(5)	5.5.5
3	15780.00	52.56	-1.44	54.00	35.98	37.26	11.59	32.27	Average		
4	15780.00	66.84	-7. <b>1</b> 6	74.00	50.26	37.26	11.59	32.27	Peak	222	222

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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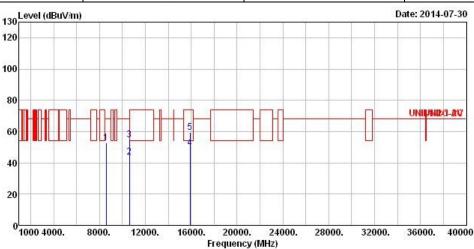


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5300

N<sub>TX</sub> 3 Polarization V

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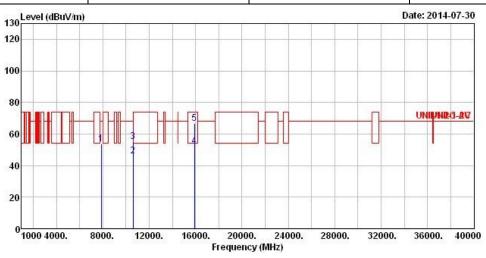
			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
ð.	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	à ē	cm	deg
1	8585.50	52.89	-15.31	68.20	39.63	38.13	7.97	32.84	Peak		222
2	10600.00	43.64	-10.36	54.00	28.23	38.96	9.06	32.61	Average	5,5,5	5,5,5
3	10600.00	54.84	-13.36	68.20	39.43	38.96	9.06	32.61	Peak	222	222
4	15900.00	49.58	-4.42	54.00	33.22	37.07	11.59	32.30	Average	200	200
5	15900.00	59.68	-14.32	74.00	43.32	37.07	11.59	32.30	Peak	5.5.5	3.5.5

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	11a	Test Freq. (MHz)	5300							
$N_{TX}$	3	Polarization	Н							



	Freq	Level	0∨er Limit			Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	915		deg
1	7882.00	53.84	- 14.36	68.20	41.57	36.98	8.07	32.78	Peak	55.5	3.33
2	10600.00	45.91	-8.09	54.00	30.50	38.96	9.06	32.61	Average	555	555
3	10600.00	55.34	-12.86	68.20	39.93	38.96	9.06	32.61	Peak	222	
4	15900.00	52.32	-1.68	54.00	35.96	37.07	11.59	32.30	Average	2000	2000
5	15900.00	66.46	-7.54	74.00	50.10	37.07	11.59	32.30	Peak	200	200

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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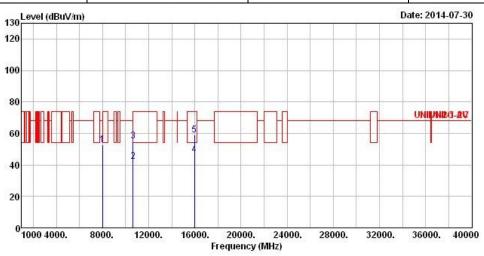


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5320

N<sub>TX</sub> 3 Polarization V

Report No.: FR441445-04AN



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	À.E	Cm	deg
1	8018.50	52.58	- 15 . 62	68.20	39.99	37 <b>.1</b> 3	8.26	32.80	Peak		
2	10640.00	42.32	-11.68	54.00	26.89	38.94	9.07	32.58	Average	505050	-,-,-,-
3	10640.00	55.01	-18.99	74.00	39.58	38.94	9.07	32.58	Peak	20202	222
4	15960.00	46.76	-7.24	54.00	30.53	36.96	11.59	32.32	Average	222	200
5	15960.00	58.80	-15.20	74.00	42.57	36.96	11.59	32.32	Peak	555	3.5.5.

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

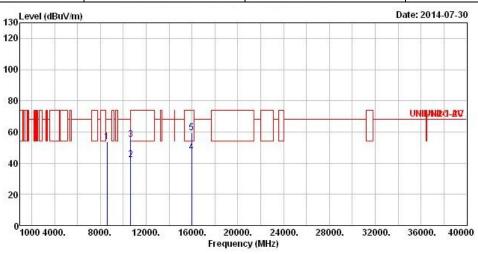
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	11a	Test Freq. (MHz)	5320								
$N_{TX}$	3	Polarization	Н								

Report No.: FR441445-04AN



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
8.5	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ii.	Cm	deg
1	8585.50	53.73	- 14 . 47	68.20	40.47	38.13	7.97	32.84	Peak	555	555
2	10640.00	42.45	-11.55	54.00	27.02	38.94	9.07	32.58	Average	2(2(2)	2/2/2/
3	10640.00	55.37	-18.63	74.00	39.94	38.94	9.07	32.58	Peak	222	222
4	15960.00	46.89	-7.11	54.00	30.66	36.96	11.59	32.32	Average	5.5.5	555
5	15960.00	59.66	-14.34	74.00	43.43	36.96	11.59	32.32	Peak	555	5(5(5)

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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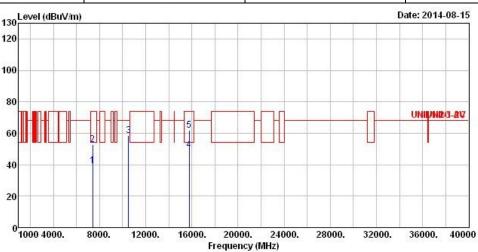


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5260

N<sub>TX</sub> 3 Polarization V

Report No.: FR441445-04AN



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
0.8	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	àt.	cm	deg
1	7428.00	39.13	-14.87	54.00	28.04	36.42	7.37	32.70	Average	0	0
2	7428.00	52.65	-21.35	74.00	41.56	36.42	7.37	32.70	Peak	0	0
3	10520.00	58.34	-9.86	68.20	42.98	38.99	9.02	32.65	Peak	0	0
4	15780.00	49.50	-4.50	54.00	32.92	37.26	11.59	32.27	Average	0	0
5	15780.00	61.88	-12.12	74.00	45.30	37.26	11.59	32.27	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

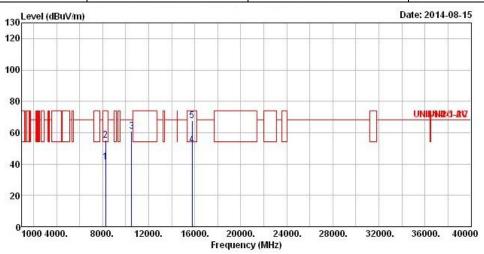
Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode HT20 Test Freq. (MHz) 5260								
$N_{TX}$	3	Polarization	Н					

Report No.: FR441445-04AN



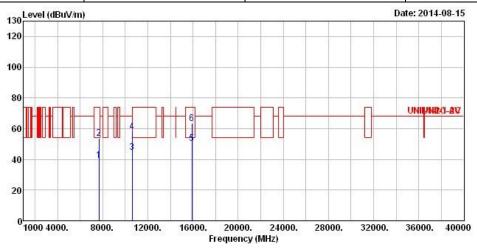
	Freq	Le∨el	0∨er Limit			Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	31 <del>0</del>	cm	deg
1	8248.00	41.15	-12.85	54.00	28.24	37.58	8.13	32.80	Average	0	0
2	8248.00	55.14	-18.86	74.00	42.23	37.58	8.13	32.80	Peak	0	0
3	10520.00	61.12	-7.08	68.20	45.76	38.99	9.02	32.65	Peak	0	0
4	15780.00	52.52	-1.48	54.00	35.94	37.26	11.59	32.27	Average	0	0
5	15780.00	67.70	-6.30	74.00	51.12	37.26	11.59	32.27	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode HT20 Test Freq. (MHz) 5300								
N <sub>TX</sub> 3 Polarization V								



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>	cm	deg
1	7684.00	39.50	-14.50	54.00	27.76	36.78	7.71	32.75	Average	0	0
2	7684.00	53.67	-20.33	74.00	41.93	36.78	7.71	32.75	Peak	0	0
3	10600.00	44.71	-9.29	54.00	29.30	38.96	9.06	32.61	Average	0	0
4	10600.00	57.93	-10.27	68.20	42.52	38.96	9.06	32.61	Peak	0	0
5	15900.00	50.47	-3.53	54.00	34.11	37.07	11.59	32.30	Average	0	0
6	15900.00	63.34	-10.66	74.00	46.98	37.07	11.59	32.30	Peak	0	0

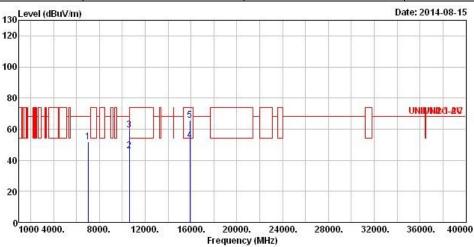
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	Test Freq. (MHz)	5300						
$N_{TX}$	3	Polarization	Н					

Report No.: FR441445-04AN

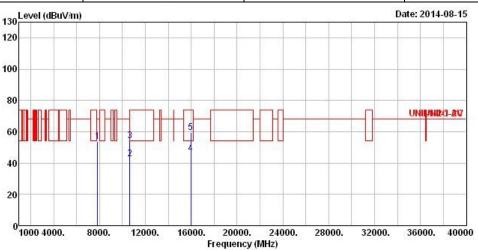


			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	916	Cm	deg
1	7016.00	51.87	-16.33	68.20	42.07	35.34	7.05	32.59	Peak	0	0
2	10600.00	46.25	-7.75	54.00	30.84	38.96	9.06	32.61	Average	0	0
3	10600.00	59.35	-8.85	68.20	43.94	38.96	9.06	32.61	Peak	0	0
4	15900.00	52.54	-1.46	54.00	36.18	37.07	11.59	32.30	Average	0	0
5	15900.00	65.56	-8.44	74.00	49.20	37.07	11.59	32.30	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode HT20 Test Freq. (MHz) 5320								
N <sub>TX</sub> 3 Polarization V								



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	i i	Cm	deg
1	7824.00	53.51	-14.69	68.20	41.36	36.92	8.00	32.77	Peak		
2	10640.00	42.76	-11.24	54.00	27.33	38.94	9.07	32.58	Average	5,5,5	5,5,5
3	10640.00	54.25	-19.75	74.00	38.82	38.94	9.07	32.58	Peak		444
4	15960.00	46.24	-7.76	54.00	30.01	36.96	11.59	32.32	Average	2000	200
5	15960.00	59.25	-14.75	74.00	43.02	36.96	11.59	32.32	Peak	555	5.5.5

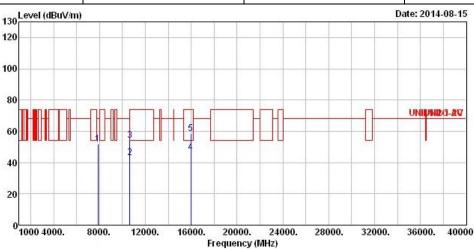
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode HT20 Test Freq. (MHz) 5320								
$N_{TX}$	3	Polarization	Н					

Report No.: FR441445-04AN

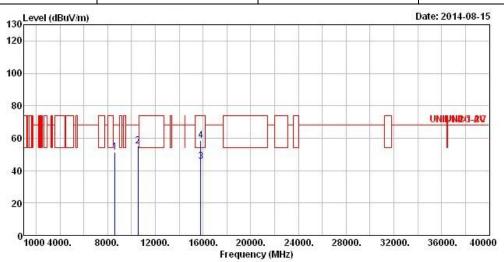


			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	×	cm	deg
1	7884.00	51.79	-16.41	68.20	39.45	36.98	8.14	32.78	Peak	222	222
2	10640.00	43.12	-10.88	54.00	27.69	38.94	9.07	32.58	Average	7.7.7	5.5.5
3	10640.00	54.12	-19.88	74.00	38.69	38.94	9.07	32.58	Peak		
4	15960.00	46.63	-7.37	54.00	30.40	36.96	11.59	32.32	Average	2(2(2)	2020
5	<b>1</b> 5960.00	58.49	-15.51	74.00	42.26	36.96	11.59	32.32	Peak		

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode HT40 Test Freq. (MHz) 5270								
N <sub>TX</sub> 3 Polarization V									



			0∨er	Limit	ReadA	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	is .	Cm	deg
1	8610.00	51.47	-16.73	68.20	38.21	38.15	7.95	32.84	Peak		
2	10540.00	55.25	-12.95	68.20	39.86	38.99	9.04	32.64	Peak	5,5,5	5,5,5
3	15810.00	45.68	-8.32	54.00	29.17	37.20	11.59	32.28	Average	222	
4	15810.00	58.61	-15.39	74.00	42.10	37.20	11.59	32.28	Peak	222	200

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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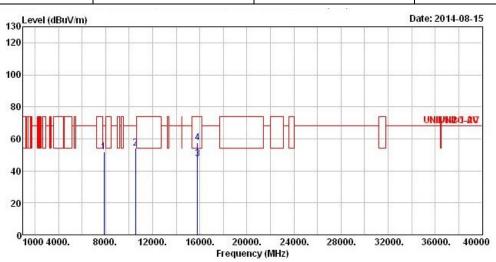


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5270

N<sub>TX</sub> 3 Polarization H

Report No.: FR441445-04AN

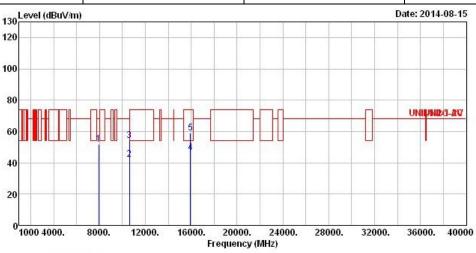


			0ver	Limit	ReadA	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
30 <b>-</b>	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	S-	cm	deg
1	7884.00	51.84	-16.36	68.20	39.50	36.98	8.14	32.78	Peak		
2	10540.00	54.36	-13.84	68.20	38.97	38.99	9.04	32.64	Peak	222	222
3	15810.00	47.27	-6.73	54.00	30.76	37.20	11.59	32.28	Average	7.7.7	7.7.7
4	15810.00	57.78	-16.22	74.00	41.27	37.20	11.59	32.28	Peak		

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode HT40 Test Freq. (MHz) 5310									
$N_{TX}$	3	Polarization	V						



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7926.00	51.73	-16.47	68.20	39.29	37.02	8.21	32.79	Peak	222	222
2	10620.00	42.29	-11.71	54.00	26.86	38.95	9.07	32.59	Average	7.7.7	7.7.7.
3	10620.00	54.31	-19.69	74.00	38.88	38.95	9.07	32.59	Peak		
4	15930.00	46.40	-7.60	54.00	30.11	37.01	11.59	32.31	Average	202020	202020
5	15930 00	59 97	- 14 93	74 99	42 78	37 01	11.59	32 31	Peak	222	2020

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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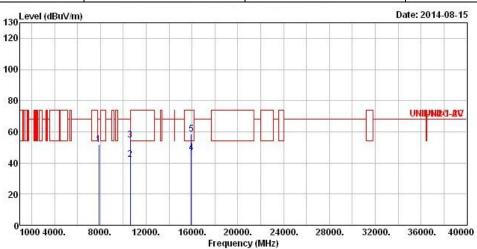


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT40 Test Freq. (MHz) 5310

N<sub>TX</sub> 3 Polarization H

Report No.: FR441445-04AN



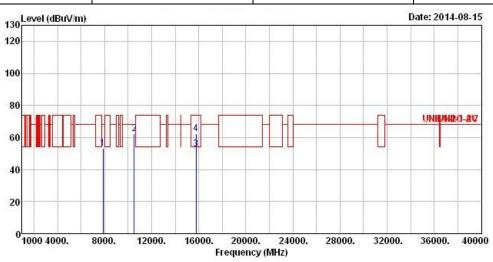
			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7884.00	51.94	-16.26	68.20	39.60	36.98	8.14	32.78	Peak	555	555
2	10620.00	42.28	-11.72	54.00	26.85	38.95	9.07	32.59	Average		
3	10620.00	54.51	-19.49	74.00	39.08	38.95	9.07	32.59	Peak	222	222
4	15930.00	46.48	-7.52	54.00	30.19	37.01	11.59	32.31	Average	3.5.5	3.5.5.
5	15930.00	58.60	- 15.40	74.00	42.31	37.01	11.59	32.31	Peak	5(5)5	5(5(5)

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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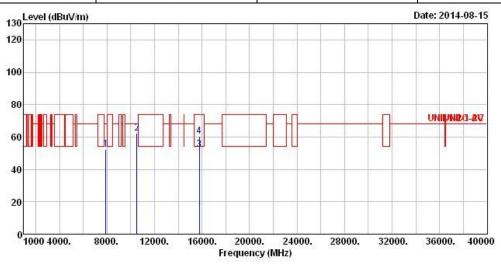
			0ver	Limit	ReadA	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark		
85	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	i de la companya de	Cm	deg
1	7886.00	53.32	- 14.88	68.20	40.98	36.98	8.14	32.78	Peak	5(5,5)	555
2	10520.00	62.58	-5.62	68.20	47.22	38.99	9.02	32.65	Peak		
3	15780.00	52.60	-1.40	54.00	36.02	37.26	11.59	32.27	Average	222	222
4	15780.00	62.54	-11.46	74.00	45.96	37.26	11.59	32.27	Peak		3.5.5

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Test Freq. (MHz)	5260								
$N_{TX}$	3	Polarization	Н							

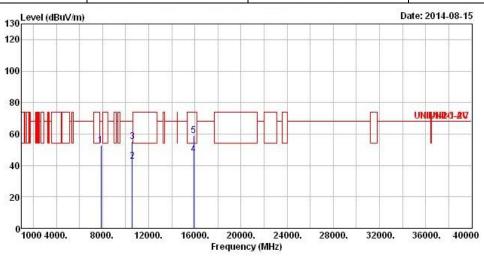


			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
ä	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ăi.	cm	deg
1	7920.50	52.42	- 15.78	68.20	40.04	37.02	8.14	32.78	Peak		
2	10520.00	62.46	-5.74	68.20	47.10	38.99	9.02	32.65	Peak	5(5(5)	
3	15780.00	52.05	-1.95	54.00	35.47	37.26	11.59	32.27	Average	222	2020
4	15780.00	60.58	-13.42	74.00	44.00	37.26	11.59	32.27	Peak	2000	200

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	VHT20	Test Freq. (MHz)	5300							
$N_{TX}$	3	Polarization	V							

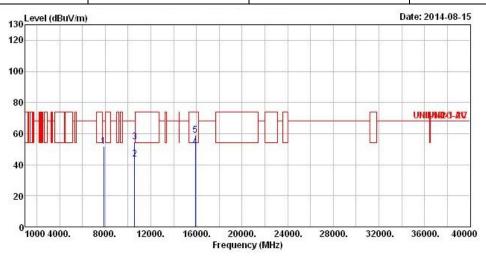


			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ii b	cm	deg
1	7884.00	52.55	- 15 . 65	68.20	40.21	36.98	8.14	32.78	Peak	555	555
2	10596.00	42.53	-25.67	68.20	27.11	38.97	9.06	32.61	Average	222	
3	10596.00	55.17	-13.03	68.20	39.75	38.97	9.06	32.61	Peak	222	
4	15900.00	47.15	-6.85	54.00	30.79	37.07	11.59	32.30	Average	3.3.5	5.5.5
5	15900.00	58.86	- 15 . 14	74.00	42.50	37.07	11.59	32.30	Peak	555	555

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT20	Test Freq. (MHz)	5300						
$N_{TX}$	3	Polarization	Н						



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	30 ·	cm	deg
1	7884.00	51.72	-16.48	68.20	39.38	36.98	8.14	32.78	Peak	555	555
2	10596.00	43.73	-24.47	68.20	28.31	38.97	9.06	32.61	Average		
3	10596.00	54.47	-13.73	68.20	39.05	38.97	9.06	32.61	Peak	222	222
4	15900.00	51.27	-2.73	54.00	34.91	37.07	11.59	32.30	Average	3.5.5.	5.5.5
5	15900.00	59.06	-14.94	74.00	42.70	37.07	11.59	32.30	Peak	5.5.5	555

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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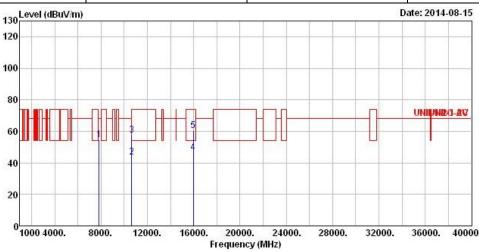


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT20 Test Freq. (MHz) 5320

N<sub>TX</sub> 3 Polarization V

Report No.: FR441445-04AN



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	X <del></del>	cm	deg
1	7824.00	54.60	-13.60	68.20	42.45	36.92	8.00	32.77	Peak	0	0
2	10640.00	43.45	-10.55	54.00	28.02	38.94	9.07	32.58	Average	0	0
3	10640.00	57.80	-16.20	74.00	42.37	38.94	9.07	32.58	Peak	0	0
4	15960.00	46.48	-7.52	54.00	30.25	36.96	11.59	32.32	Average	0	0
5	15960.00	60.30	-13.70	74.00	44.07	36.96	11.59	32.32	Peak	0	0

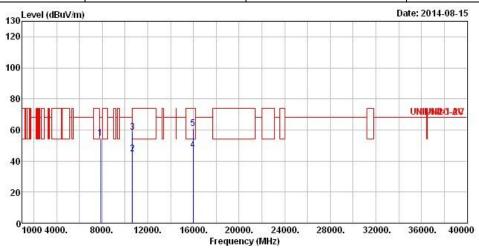
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation Mode VHT20 Test Freq. (MHz) 5320									
N <sub>TX</sub>	3	Polarization	Н							

Report No.: FR441445-04AN



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	915	cm	deg
1	7884.00	54.91	-13.29	68.20	42.57	36.98	8.14	32.78	Peak	0	Ø
2	10640.00	44.45	-9.55	54.00	29.02	38.94	9.07	32.58	Average	0	0
3	10640.00	58.45	-15.55	74.00	43.02	38.94	9.07	32.58	Peak	0	0
4	15960.00	46.93	-7.07	54.00	30.70	36.96	11.59	32.32	Average	0	0
5	15960.00	60.93	-13.07	74.00	44.70	36.96	11.59	32.32	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

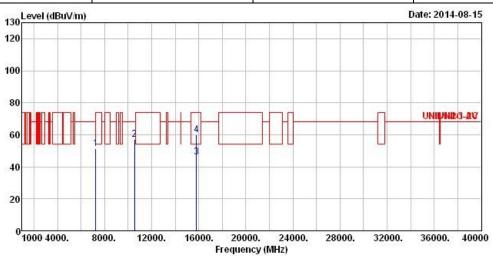
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Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT40 Test Freq. (MHz) 5270

N<sub>TX</sub> 3 Polarization V

Report No.: FR441445-04AN

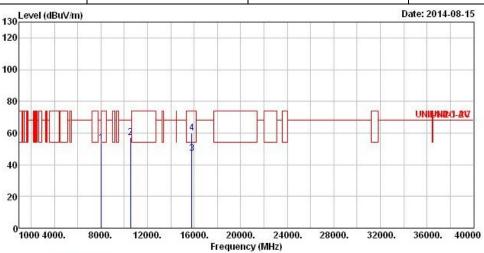


			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>		deg
1	7241.00	51.31	-16.89	68.20	40.80	35.93	7.23	32.65	Peak	0	0
2	10540.00	56.97	-11.23	68.20	41.58	38.99	9.04	32.64	Peak	0	0
3	15810.00	45.92	-8.08	54.00	29.41	37.20	11.59	32.28	Average	0	0
4	15810.00	59.99	-14.01	74.00	43.48	37.20	11.59	32.28	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	Modulation ModeVHT40Test Freq. (MHz)5270									
N <sub>TX</sub> 3 Polarization H										

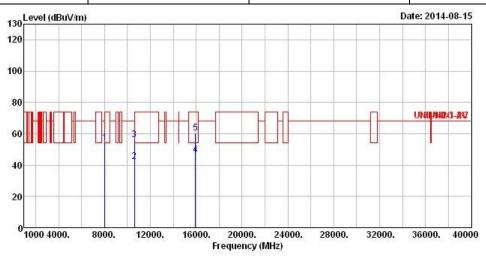


			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	×	cm	deg
1	8021.00	53.71	-14.49	68.20	41.12	37 <b>.1</b> 3	8.26	32.80	Peak	0	0
2	10540.00	57.00	-11.20	68.20	41.61	38.99	9.04	32.64	Peak	0	0
3	15810.00	47.21	-6.79	54.00	30.70	37.20	11.59	32.28	Average	0	0
4	15810.00	59.79	-14.21	74.00	43.28	37.20	11.59	32.28	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT40	Test Freq. (MHz)	5310						
N <sub>TX</sub>	3	Polarization	V						

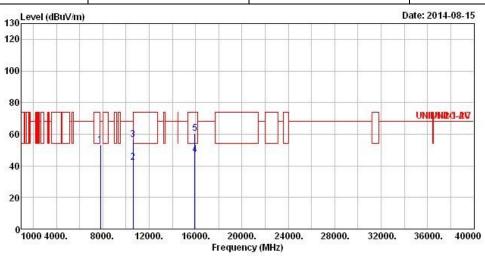


			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
8	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	i i	Cm	deg
1	8022.00	54.15	- 14 . 05	68.20	41.56	37 <b>.1</b> 3	8.26	32.80	Peak	0	0
2	10620.00	42.34	-11.66	54.00	26.91	38.95	9.07	32.59	Average	0	0
3	10620.00	56.14	-17.86	74.00	40.71	38.95	9.07	32.59	Peak	0	0
4	15930.00	46.35	-7.65	54.00	30.06	37.01	11.59	32.31	Average	0	0
5	15930.00	60.50	-13.50	74.00	44.21	37.01	11.59	32.31	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	Modulation Mode VHT40 Test Freq. (MHz) 5310								
N <sub>TX</sub>	3	Polarization	Н						



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	(d)	cm	deg
1	7810.00	53.36	- 14 . 84	68.20	41.21	36.92	8.00	32.77	Peak	0	0
2	10620.00	42.44	-11.56	54.00	27.01	38.95	9.07	32.59	Average	0	0
3	10620.00	56.79	-17.21	74.00	41.36	38.95	9.07	32.59	Peak	0	0
4	15930.00	46.90	-7.10	54.00	30.61	37.01	11.59	32.31	Average	0	0
5	15930.00	60.34	-13.66	74.00	44.05	37.01	11.59	32.31	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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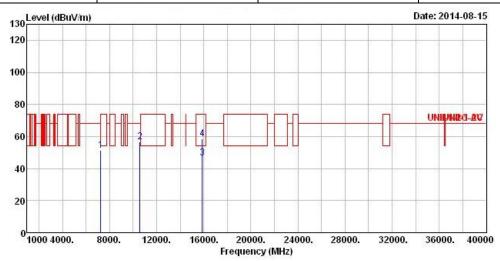


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode VHT80 Test Freq. (MHz) 5290

N<sub>TX</sub> 3 Polarization V

Report No.: FR441445-04AN



			0ver	Limit	ReadA	ntenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
25	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	0	cm	deg
1	7239.00	51.29	-16.91	68.20	40.78	35.93	7.23	32.65	Peak	0	0
2	10580.00	56.52	-11.68	68.20	41.10	38.97	9.06	32.61	Peak	0	0
3	15870.00	46.51	-7.49	54.00	30.12	37.09	11.59	32.29	Average	0	0
4	15870.00	58.75	-15.25	74.00	42.36	37.09	11.59	32.29	Peak	0	0

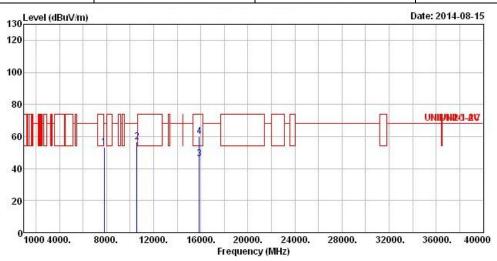
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Tra	Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	VHT80	Test Freq. (MHz)	5290							
N <sub>TX</sub>	3	Polarization	Н							

Report No.: FR441445-04AN



			0∨er	Limit	ReadA	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
85	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	i de la companya de	cm	deg
1	7816.00	53.26	-14.94	68.20	41.11	36.92	8.00	32.77	Peak	0	0
2	10580.00	56.67	-11.53	68.20	41.25	38.97	9.06	32.61	Peak	0	0
3	15870.00	46.04	-7.96	54.00	29.65	37.09	11.59	32.29	Average	0	0
4	15870.00	60.06	-13.94	74.00	43.67	37.09	11.59	32.29	Peak	0	0

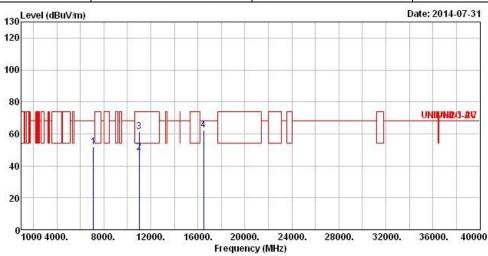
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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#### 3.6.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 5470-5725MHz

Report No.: FR441445-04AN

Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5500					
$N_{TX}$	3	Polarization	V					

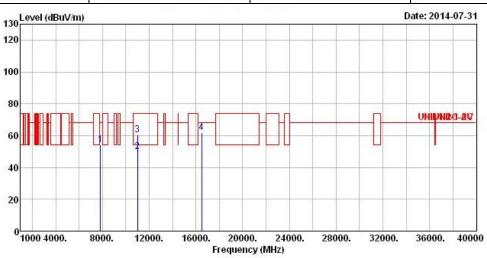


	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Freq	Le∨el	0∨er Limit			Antenna Factor		요시생이 이번 경험이다.	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Ñ.E		deg									
1	7124.00	51.67	-16.53	68.20	41.54	35.61	7.14	32.62	Peak	0	0									
2	11000.00	48.50	-5.50	54.00	32.84	38.80	9.23	32.37	Average	0	0									
3	11000.00	61.34	-12.66	74.00	45.68	38.80	9.23	32.37	Peak	0	0									
4	16500.00	62.22	-5.98	68.20	44.58	37.40	12.18	31.94	Peak	0	0									

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5500					
N <sub>TX</sub>	3	Polarization	Н					



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ile.	Cm	deg
1	7828.00	54. <b>1</b> 4	- 14.06	68.20	41.98	36.93	8.00	32.77	Peak	0	0
2	11000.00	49.81	-4.19	54.00	34.15	38.80	9.23	32.37	Average	0	0
3	11000.00	60.62	-13.38	74.00	44.96	38.80	9.23	32.37	Peak	0	0
4	16500.00	61.95	-6.25	68.20	44.31	37.40	12.18	31.94	Peak	0	0

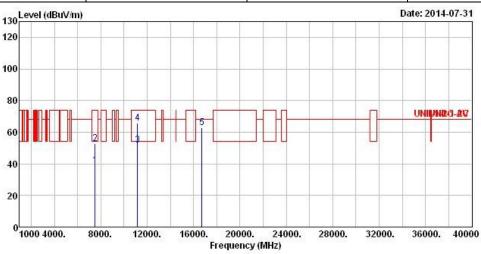
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)								
Modulation Mode	11a	Test Freq. (MHz)	5580					
N <sub>TX</sub>	3	Polarization	V					

Report No.: FR441445-04AN



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	45	cm	deg
1	7524.00	39.00	- 15 . 00	54.00	27.66	36.63	7.43	32.72	Average	0	0
2	7524.00	52.62	-21.38	74.00	41.28	36.63	7.43	32.72	Peak	0	0
3	11160.00	52.00	-2.00	54.00	35.85	38.97	9.54	32.36	Average	0	0
4	11160.00	65.55	-8.45	74.00	49.40	38.97	9.54	32.36	Peak	0	0
5	16740.00	62.71	-5.49	68.20	43.97	38.80	11.58	31.64	Peak	0	0

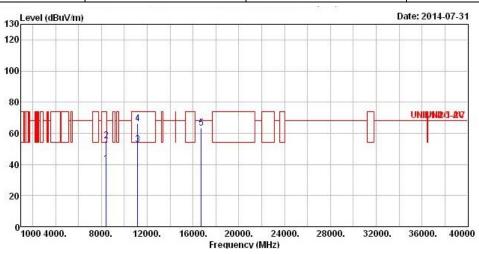
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation Mode 11a Test Freq. (MHz) 5580									
$N_{TX}$										

Report No.: FR441445-04AN



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	£	cm	deg
1	8440.00	40.53	-13.47	54.00	27.31	38.00	8.03	32.81	Average	0	0
2	8440.00	54.96	-19.04	74.00	41.74	38.00	8.03	32.81	Peak	0	0
3	11160.00	52.55	-1.45	54.00	36.40	38.97	9.54	32.36	Average	0	0
4	11160.00	66.25	-7.75	74.00	50.10	38.97	9.54	32.36	Peak	0	0
5	16740.00	63.15	-5.05	68.20	44.41	38.80	11.58	31.64	Peak	0	0

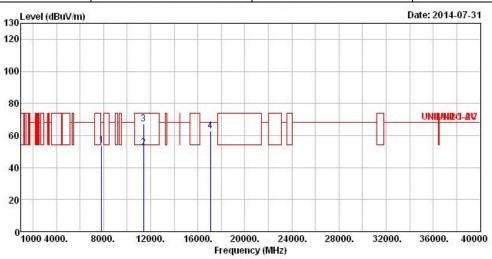
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation Mode 11a Test Freq. (MHz) 5700									
N <sub>TX</sub> 3 Polarization V										

Report No.: FR441445-04AN



			0∨er			Antenna				A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
2.5	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	80	cm	deg
1	7840.00	53.69	-14.51	68.20	41.53	36.93	8.00	32.77	Peak	0	0
2	11400.00	52.50	-1.50	54.00	35.73	39.20	9.92	32.35	Average	0	0
3	11400.00	66.98	-7.02	74.00	50.21	39.20	9.92	32.35	Peak	0	0
4	17100.00	63.07	-5. <b>1</b> 3	68.20	42.00	41.08	11.33	31.34	Peak	0	0

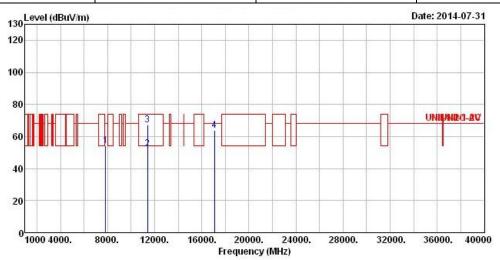
- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation Mode 11a Test Freq. (MHz) 5700									
N <sub>TX</sub>	3	Polarization	Н							

Report No.: FR441445-04AN



	Freq	Level	0∨er Limit			Antenna Factor				A/Pos	T/Pos
10-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg
1	7848.00	54.20	-14.00	68.20	41.96	36.95	8.07	32.78	Peak	0	0
2	11400.00	52.29	-1.71	54.00	35.52	39.20	9.92	32.35	Average	0	0
3	11400.00	67.06	-6.94	74.00	50.29	39.20	9.92	32.35	Peak	0	0
4	17100.00	63.95	-4.25	68.20	42.88	41.08	11.33	31.34	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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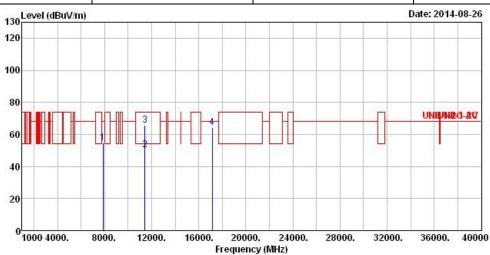


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5720

N<sub>TX</sub> 3 Polarization V

Report No.: FR441445-04AN



			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	×	cm	deg
1	7884.00	54.62	-13.58	68.20	42.28	36.98	8.14	32.78	Peak		
2	11440.00	50.23	-3.77	54.00	33.36	39.23	9.98	32.34	Average		
3	11440.00	65.56	-8.44	74.00	48.69	39.23	9.98	32.34	Peak		
4	17160.00	64.31	-3.89	68.20	42.65	41.60	11.42	31.36	Peak	200	****

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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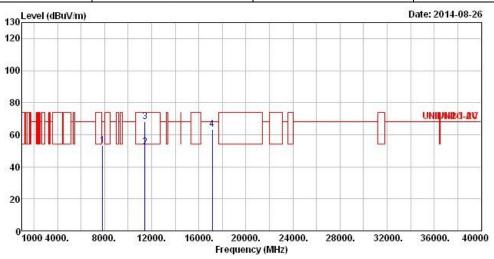


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode 11a Test Freq. (MHz) 5720

N<sub>TX</sub> 3 Polarization H

Report No.: FR441445-04AN



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
à	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	ài.	cm	deg
1	7836.00	53.32	-14.88	68.20	41.16	36.93	8.00	32.77	Peak		
2	11440.00	52.37	-1.63	54.00	35.50	39.23	9.98	32.34	Average	0	0
3	11440.00	68.14	-5.86	74.00	51.27	39.23	9.98	32.34	Peak	0	0
4	17160.00	63.36	-4.84	68.20	41.70	41.60	11.42	31.36	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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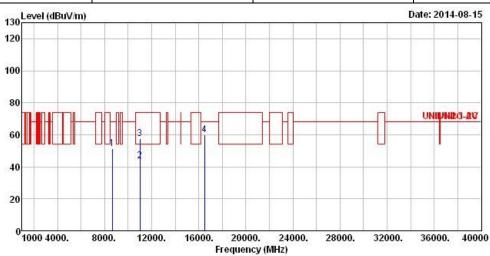


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5500

N<sub>TX</sub> 3 Polarization V

Report No.: FR441445-04AN



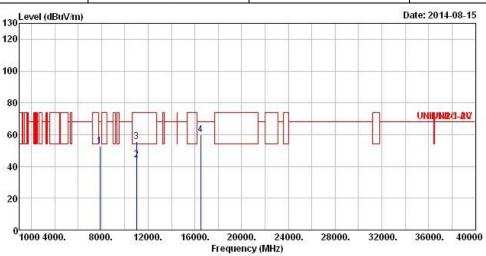
	Freq	Level	O∨er Limit			Antenna Factor				A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	1 de	cm	deg
1	8652.00	51.26	-16.94	68.20	38.03	38.16	7.93	32.86	Peak	555	
2	11000.00	43.55	-10.45	54.00	27.89	38.80	9.23	32.37	Average	555	
3	11000.00	57.55	-16.45	74.00	41.89	38.80	9.23	32.37	Peak		
4	16500.00	59.76	-8.44	68.20	42.12	37.40	12.18	31.94	Peak	2/2/2/	222

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation Mode HT20 Test Freq. (MHz) 5500									
N <sub>TX</sub> 3 Polarization H										



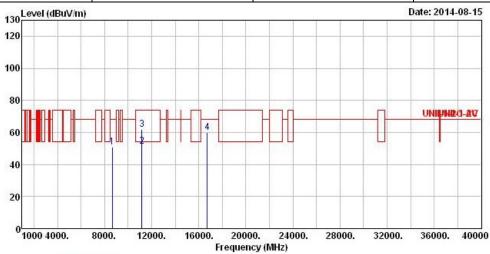
			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
8	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	às.	Cm	deg
1	7884.00	52.64	- 15 . 56	68.20	40.30	36.98	8.14	32.78	Peak		
2	11000.00	44.15	-9.85	54.00	28.49	38.80	9.23	32.37	Average	555	
3	11000.00	55.75	-18.25	74.00	40.09	38.80	9.23	32.37	Peak	222	222
4	16500.00	60.08	-8.12	68.20	42.44	37.40	12.18	31.94	Peak	222	200

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)										
Modulation Mode	Modulation Mode HT20 Test Freq. (MHz) 5580									
N <sub>TX</sub> 3 Polarization V										



			0ver	Limit	ReadA	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>	Cm	deg
1	8652.00	50.83	-17.37	68.20	37.60	38.16	7.93	32.86	Peak	222	
2	11160.00	51.39	-2.61	54.00	35.24	38.97	9.54	32.36	Average	5.5.5	7.7.7
3	11160.00	61.67	-12.33	74.00	45.52	38.97	9.54	32.36	Peak		
4	16740.00	60.18	-8.02	68.20	41.44	38.80	11.58	31.64	Peak	¥0¥0¥0	202020

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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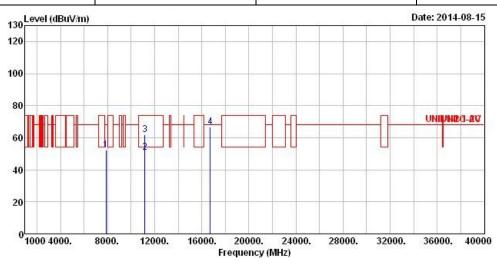


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5580

N<sub>TX</sub> 3 Polarization H

Report No.: FR441445-04AN



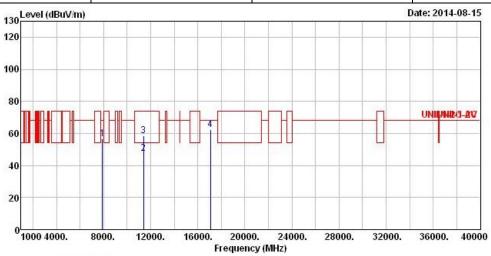
			0∨er			Antenna		~ 있는데, 이번 (영향) <b></b> [1]		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	re∨er	Factor	Loss	Factor	Remark		
i.i	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	il E	cm	deg
1	7884.00	52.37	- 15 . 83	68.20	40.03	36.98	8.14	32.78	Peak		
2	11160.00	50.96	-3.04	54.00	34.81	38.97	9.54	32.36	Average	505050	505050
3	11160.00	62.02	-11.98	74.00	45.87	38.97	9.54	32.36	Peak		2(2(2)
4	16740.00	66.46	-1.74	68.20	47.72	38.80	11.58	31.64	Peak	222	

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation Mode	HT20	Test Freq. (MHz)	5700						
N <sub>TX</sub>	3	Polarization	V						

Report No.: FR441445-04AN



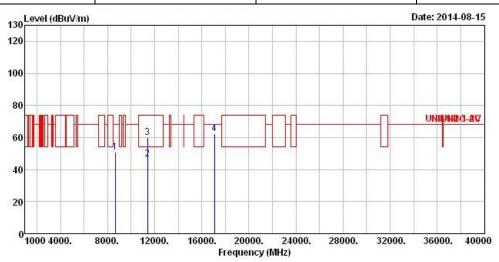
			0ver	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	X	Cm	deg
1	7914.00	56.62	-11.58	68.20	44.24	37.02	8.14	32.78	Peak	222	
2	11400.00	47.73	-6.27	54.00	30.96	39.20	9.92	32.35	Average		
3	11400.00	58.36	-15.64	74.00	41.59	39.20	9.92	32.35	Peak		
4	17100.00	62.37	-5.83	68.20	41.30	41.08	11.33	31.34	Peak	202020	202020

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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Transmitter Radiated Unwanted Emissions (Above 1GHz)									
Modulation ModeHT20Test Freq. (MHz)5700									
N <sub>TX</sub>	3	Polarization	Н						



			0∨er	Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos
	Freq	Level	Limit	Line	Le∨el	Factor	Loss	Factor	r Remark		
8.5	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	i de la companya de	cm	deg
1	8652.00	51.02	- 17 . 18	68.20	37.79	38.16	7.93	32.86	Peak	555	555
2	11400.00	46.66	-7.34	54.00	29.89	39.20	9.92	32.35	Average	222	
3	11400.00	60.00	-14.00	74.00	43.23	39.20	9.92	32.35	Peak	222	222
4	17100.00	62.43	-5.77	68.20	41.36	41.08	11.33	31.34	Peak	3.5.5	555

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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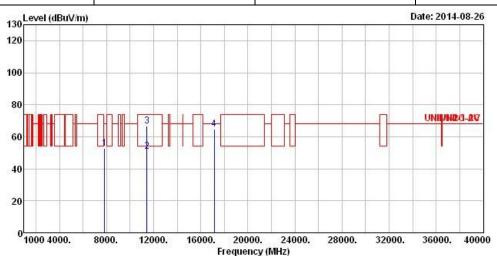


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5720

N<sub>TX</sub> 3 Polarization V

Report No.: FR441445-04AN



				Limit	Read	Antenna	Cable	Preamp		A/Pos	T/Pos	
	Freq	Le∨el	Level	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	15	cm	deg	
1	7845.00	52.96	-15.24	68.20	40.71	36.95	8.07	32.77	Peak	555	7.7.7	
2	11440.00	50.87	-3.13	54.00	34.00	39.23	9.98	32.34	Average	0	0	
3	11440.00	66.46	-7.54	74.00	49.59	39.23	9.98	32.34	Peak	0	0	
4	17160.00	64.58	-3.62	68.20	42.92	41.60	11.42	31.36	Peak	0	0	

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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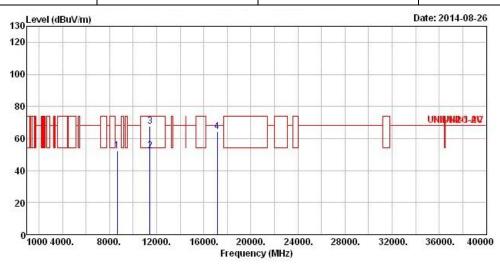


Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode HT20 Test Freq. (MHz) 5720

N<sub>TX</sub> 3 Polarization H

Report No.: FR441445-04AN



			0ver	Over Limit		ReadAntenna		Cable Preamp			T/Pos
	Freq	Le∨el	Limit	Line	Le∨el	Factor	Loss	Factor	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	0	cm	deg
1	8652.00	52.25	- 15 . 95	68.20	39.02	38.16	7.93	32.86	Peak	555	5,5,5
2	11440.00	52.43	-1.57	54.00	35.56	39.23	9.98	32.34	Average	0	0
3	11440.00	67.67	-6.33	74.00	50.80	39.23	9.98	32.34	Peak	0	0
4	17160.00	64.21	-3.99	68.20	42.55	41.60	11.42	31.36	Peak	0	0

- Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.
- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands emission satisfies both the average and peak limits of 15.209, it is not required to satisfy the -27 dBm peak emission limit of 15.407.
- Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

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