TEST REPORT

500			DT&C Co., L	td.
U	Dt&C		eon-gil, Cheoin-gu, Yongin-si, Tel : 031-321-2664, Fax : 031-	
1. Report	No : DRTFCC2009-028	3(1)		
2. Custom	ner			
• Name	: LG Electronics USA, In	C.		
• Addre	ess : 111 Sylvan Avenue, l	North Building En	glewood Cliffs, NJ 07632	2
3. Use of	Report : FCC Original Gra	ant		
	t Name / Model Name : M : ZNFF100EMW	obile Phone / LM	-F100EMW	
	egulation(s): FCC Part 15. thod Used : KDB789033 I		C63.10-2013	
6. Date of	Test : 2020.07.23 ~ 2020	.08.27, 2020.09.2	23	
7. Location	n of Test : 🛛 Permanent	Testing Lab	On Site Testing	
8. Testing	Environment : See appen	ided test report.		
9. Test Re	sult : Refer to the attache	d Test Result		
The results	shown in this test report refe	er only to the samp	le(s) tested unless otherwis	se stated.
Affirmation	Tested by		Reviewed by	AA
Animation	Name : JungWoo Kim	Stitter	Name : GeunKi Son	(Signature)
		,		
		2020.09.	23.	
	I	DT&C Co	., Ltd.	
	Unconnected with	KS Q ISO / IEC 17	025 and KOLAS accreditat	tion
lf	this report is required to con	firmation of authen	ticity, please contact to repo	ort@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2009-0283	Sep. 10, 2020	Initial issue	JungWoo Kim	GeunKi Son
DRTFCC2009-0283(1)	Sep. 23, 2020	6dB Bandwidth data update	JungWoo Kim	GeunKi Son



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1. EUT DESCRIPTION

1.1 EUT Description

FCC Equipment Class	Unlicensed National Information Infrastructure (UNII)
Product	Mobile Phone
Model Name	LM-F100EMW
Add Model Name	LMF100EMW, F100EMW, LM-F100EM, LMF100EM, F100EM
Power Supply	DC 3.87 V
Modulation type	OFDM
Antenna Specification	Antenna type: PIFA Antenna Antenna gain: Refer to the clause 7 in test report.

5GHz Band	Mode	Tx frequency (MHz)	Max power(dBm)
	802.11a	5 180 ~ 5 240	18.89
	802.11n(HT20)	5 180 ~ 5 240	17.87
U-NII 1	802.11ac(VHT20)	5 180 ~ 5 240	17.93
0-1411 1	802.11n(HT40)	5 190 ~ 5 230	16.16
	802.11ac(VHT40)	5 190 ~ 5 230	16.10
	802.11ac(VHT80)	5 210	14.90
	802.11a	5 260 ~ 5 320	18.85
	802.11n(HT20)	5 260 ~ 5 320	17.82
U-NII 2A	802.11ac(VHT20)	5 260 ~ 5 320	17.91
U-INII ZA	802.11n(HT40)	5 270 ~ 5 310	15.88
	802.11ac(VHT40)	5 270 ~ 5 310	16.00
	802.11ac(VHT80)	5 290	14.59
	802.11a	5 500 ~ 5 720	18.72
	802.11n(HT20)	5 500 ~ 5 720	17.72
U-NII 2C	802.11ac(VHT20)	5 500 ~ 5 720	17.80
U-INII 2C	802.11n(HT40)	5 510 ~ 5 710	15.85
	802.11ac(VHT40)	5 510 ~ 5 710	15.90
	802.11ac(VHT80)	5 530 ~ 5 690	14.69
	802.11a	5 745 ~ 5 825	18.75
	802.11n(HT20)	5 745 ~ 5 825	17.59
U-NII 3	802.11ac(VHT20)	5 745 ~ 5 825	17.61
0-INII 3	802.11n(HT40)	5 755 ~ 5 795	15.68
	802.11ac(VHT40)	5 755 ~ 5 795	15.70
	802.11ac(VHT80)	5 775	14.53

1.2 Transmitting configuration of EUT

	SIS	0	MIMO (CDD)	MIMO (SDM)		
Mode	Ant 1	Ant 2	Ant 2 Ant 1 & 2			
	Data rate					
802.11a	6 ~ 54 Mbps	6 ~ 54 Mbps	6 ~ 54 Mbps	-		
802.11n(HT20)	MCS 0 ~ 7	MCS 0 ~ 7	MCS 0 ~ 7	MCS 8 ~ 15		
802.11ac(VHT20)	MCS 0 ~ 8 (1SS)	MCS 0 ~ 8 (1SS)	MCS 0 ~ 8 (1SS)	MCS 0 ~ 8 (2SS)		
802.11n(HT40)	MCS 0 ~ 7	MCS 0 ~ 7	MCS 0 ~ 7	MCS 8 ~ 15		
802.11ac(VHT40)	MCS 0 ~ 9 (1SS)	MCS 0 ~ 9 (1SS)	MCS 0 ~ 9 (1SS)	MCS 0 ~ 9 (2SS)		
802.11ac(VHT80)	MCS 0 ~ 9 (1SS)	MCS 0 ~ 9 (1SS)	MCS 0 ~ 9 (1SS)	MCS 0 ~ 9 (2SS)		

Note1: SDM = Spatial Diversity Multiplexing, CDD = Cycle Delay Diversity, SS = Spatial Streams

Note2: This device supports WiFi DBS(dual-band simultaneous) transmission operation, which allows for two SISO channels to operate independent of one another in the 2.4 GHz and 5 GHz bands simultaneously on each antenna. (Ant 1: 2.4 GHz band transmitting & ANT 2: 5 GHz band transmitting) And the test results for WiFi DBS were included in this test report.

2. Information about test items

2.1 Test Mode

Test Mode		ANT configuration	Worst data rate
TM 1	802.11a	CDD Multiple transmitting	6 Mbps
TM 2	802.11ac(VHT20)	SDM Multiple transmitting	MCS 0
ТМ 3	802.11n(HT40)	SDM Multiple transmitting	MCS 8
TM 4	802.11ac(VHT80)	SDM Multiple transmitting	MCS 0

Note 1: The worst case data rate is determined as above test mode according to the power measurements. Note 2: The power measurement results for all modes and data rate were reported.

2.2Tested Channel Information

5 GHz Band		/n(HT20) c(VHT20)	802.11n(HT40) /802.11ac(VHT40)		802.11ac(VHT80)	
	Channel	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Frequency [MHz]
	36	5 180	38	5 190	42	5 210
U-NII 1	40	5 200	-	-	-	-
	48	5 240	46	5 230	-	-
	52	5 260	54	5 270	58	5 290
U-NII 2A	60	5 300	-	-	-	-
	64	5 320	62	5 310	-	-
	100	5 500	102	5 510	106	5 530
U-NII 2C	120	5 600	118	5 590	122	5 610
	144	5 720	142	5 710	138	5 690
	149	5 745	151	5 755	155	5 775
U-NII 3	157	5 785	-	-	-	-
	165	5 825	159	5 795	-	-

2.3 Testing Environment

Temperature	: 22 °C ~ 26 °C
Relative humidity content	: 40 % ~ 45 %
Details of power supply	: DC 3.87 V

2.4 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing \rightarrow None

2.5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014 and ANSI C 63.10-2013. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

Test items	Measurement uncertainty
Transmitter Output Power	0.9 dB (The confidence level is about 95 %, $k = 2$)
Conducted spurious emission	0.9 dB (The confidence level is about 95 %, $k = 2$)
AC conducted emission	3.6 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz Below)	4.9 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz ~ 18 GHz)	5.1 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (18 GHz Above)	5.3 dB (The confidence level is about 95 %, $k = 2$)

3. SUMMARY OF TESTS

FCC Part Section(s)	Parameter	Limit	Test Condition	Status Note 1
15.407(a)	Emission Bandwidth (26 dB Bandwidth)	N/A		С
15.407(e)	Minimum Emission Bandwidth (6 dB Bandwidth)	> 500 kHz in 5 725 MHz ~ 5 850 MHz		С
15.407(a)	Maximum Conducted Output Power	5 150 MHz ~ 5 250 MHz : < 23.97 dBm 5 250 MHz ~ 5 350 MHz & 5 470 MHz ~ 5 725 MHz : < 250 mW or < 11 + 10 log10(B) dBm, whichever power is less. (B is the 26 dB BW.) 5 725 MHz ~ 5 850 MHz : < 30 dBm	Conducted	С
15.407(a)	Peak Power Spectral Density	5 150 MHz ~ 5 250 MHz : 11 dBm/MHz 5 250 MHz ~ 5 350 MHz : 11 dBm/MHz 5 470 MHz ~ 5 725 MHz : 11 dBm/MHz 5 725 MHz ~ 5 850 MHz : 30 dBm/500kHz		С
15.407(h)	Dynamic Frequency Selection	FCC 15.407(h)	-	C Note 3
15.407(b)	Undesirable Emissions	5 150 MHz ~ 5 725 MHz: < -27 dBm/MHz EIRP 5 725 MHz ~ 5 850 MHz: < -27 dBm/MHz or < 10 dBm/MHz or 15.6 dBm/MHz < 27 dBm/MHz EIRP		C Note 4,5
15.205 15.209 15.407(b)	General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	C Note 4,5
15.207	AC Conducted Emissions	C Conducted Emissions FCC 15.207 AC Line Conducted		С
15.203	Antenna Requirements	FCC 15.203	-	С

Note 1: C = Comply NC = Not Comply NT = Not Tested NA = Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

Note 3: Refer to the DFS test report.

Note 4: In case of this test item, we have done all TX test cases. And we attached the result of MIMO mode since MIMO is the worst case.

Note 5: This device supports wireless charging & Can use swivel mode.

So per KDB648474 D03v01r0, the radiated test items were performed all not charging, charging and swivel mode, the handset is placed on the representative charging pad under normal conditions of charging and in a simulated call configuration

Note 6: The sample was tested according to the following specification:

KDB789033 D02v02r01, KDB662911 D01v02r01, KDB648474 D03v01r04



4. TEST METHODOLOGY

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB 789033 D02v02r01 were used in measurement of the EUT.

The EUT was tested per the guidance of KDB789033 D02v02r01. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

4.1 EUT configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT exercise

The EUT was operated in the test mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E.

4.3 General test procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB789033 D02v02r01. So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector.

Radiated Emissions

Basically the radiated tests were performed with KDB789033 D02v02r01. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10-2013 as stated on KDB789033 D02v02r01.

The EUT is placed on a non-conductive table, which is 0.8 m above ground plane. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 1 or 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the highest emission, the relative positions of the EUT were rotated through three orthogonal axis.

4.4 Description of test modes

The EUT has been tested with all modes of operating conditions to determine the worst case emission characteristics. A test program is used to control the EUT for staying in continuous transmitting mode with maximum fixed duty cycle.



5. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

6. FACILITIES AND ACCREDITATIONS

6.1 Facilities

DT&C Co., Ltd.The 3 m test site and conducted measurement facility used to collect the radiated data are located at the
42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.

The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.

- FCC & IC MRA Accredited Test Firm No. : KR0034

- ISED #: 5740A			
www.dtnc.net			
Telephone	:	+ 82-31-321-2664	
FAX : +82-31-321-1664			

6.2 Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, loop, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and peak, quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

7. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The antenna is attached on the device by means of unique coupling method (Spring Tension). Therefore this E.U.T Complies with the requirement of §15.203

Directional antenna gain:

Bands	SI	SO	MIMO (CDD) Note 1.	MIMO (SDM) Note 2
	ANT 1 [dBi]	ANT 2 [dBi]	Directional Gain[dBi]	Directional Gain[dBi]
U-NII 1	-1.80	-4.40	0.01	-2.91
U-NII 2A	-1.80	-4.40	0.01	-2.91
U-NII 2C	-5.30	-7.90	-3.49	-6.41
U-NII 3	-5.30	-7.90	-3.49	-6.41

Note 1. Directional gain(correlated signal with unequal antenna gain and equal transmit power) $10 \log \left[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2 / N^{ANT} \right] dBi$

Note 2. Directional gain(completely uncorrelated signal with unequal antenna gain and equal transmit power) $10 \log \left[(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10}) / N^{ANT} \right] dBi$

8. TEST RESULT

8.1 Emission Bandwidth (26 dB Bandwidth)

Test Requirements

The bandwidth at 26 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. The 26 dB bandwidth is used to determine the conducted output power limit.

Test Configuration

Refer to the APPENDIX I.

Test Procedure

The transmitter output is connected to the Spectrum Analyzer and used following test procedure of KDB789033 D02v02r01.

- 1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
- 2. Set the video bandwidth (VBW) > RBW.
- 3. Detector = **Peak**.
- 4. Trace mode = **max hold**.

Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

Test Results : Comply

Mode	Band	Channel	Frequency [MHz]	Test Result [MHz]	
				ANT 1	ANT 2
TM 1	U-NII 1	36	5 180	19.81	19.86
		40	5 200	19.98	20.11
		48	5 240	20.42	20.66
	U-NII 2A	52	5 260	20.33	20.00
		60	5 300	20.59	19.96
		64	5 320	20.35	20.59
	U-NII 2C	100	5 500	20.34	20.85
		120	5 600	20.09	20.59
		144	5 720	20.53	20.74
TM 2		36	5 180	20.39	20.44
	U-NII 1	40	5 200	20.85	20.38
		48	5 240	20.73	20.44
		52	5 260	20.42	20.63
	U-NII 2A	60	5 300	20.52	20.48
		64	5 320	20.40	20.99
	U-NII 2C	100	5 500	20.90	20.81
		120	5 600	20.67	20.26
		144	5 720	20.67	20.57
ТМ 3	U-NII 1	38	5 190	40.82	40.47
		46	5 230	40.93	40.37
	U-NII 2A	54	5 270	40.79	40.74
		62	5 310	41.19	40.45
	U-NII 2C	102	5 510	41.14	40.16
		118	5 590	41.29	40.43
		142	5 710	40.88	40.43
TM 4	U-NII 1	42	5 210	82.71	81.50
	U-NII 2A	58	5 290	83.42	83.80
	U-NII 2C	106	5 530	82.88	82.82
		122	5 610	84.02	81.73
		138	5 690	82.49	82.66

Result Plots

26 dB Bandwidth

Occupied BV Center Freq: 5.180000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 06:42:56 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.180000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm 0 dB/div **Center Freq** 5 18000000 GHz un les Center 5.18 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms CF Step 4.000000 MHz Man #VBW 620 kHz Auto Total Power **Occupied Bandwidth** 22.5 dBm 16.502 MHz Freq Offset 0 Hz 25.481 kHz **Transmit Freq Error OBW Power** 99.00 % x dB Bandwidth 19.81 MHz x dB -26.00 dB STATUS

Test Mode: TM 1 & ANT 1 & Ch.36

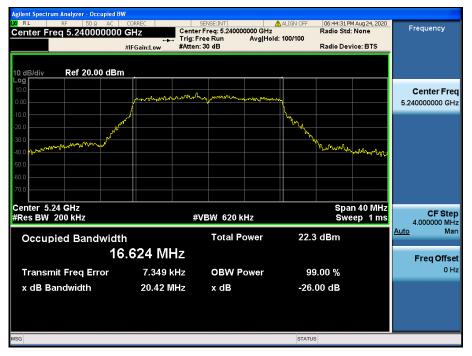
26 dB Bandwidth

Test Mode: TM 1 & ANT 1 & Ch.40



Test Mode: TM 1 & ANT 1 & Ch.48

Test Mode: TM 1 & ANT 1 & Ch.52

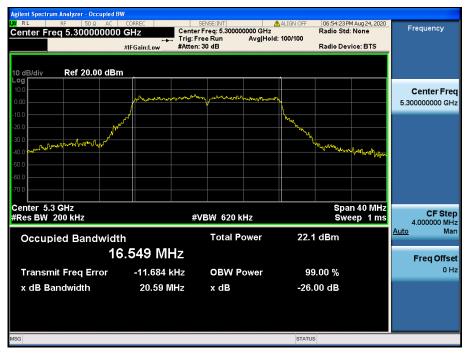


26 dB Bandwidth

trum Analyzer - Occupied BW SENSE:INT ALIGN OFF Center Freq: 5.26000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 06:53:52 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.260000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 3/div Center Freq 5.26000000 GHz Center 5.26 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms CF Step 4.000000 MHz Man #VBW 620 kHz Auto Occupied Bandwidth Total Power 22.4 dBm 16.579 MHz **Freq Offset** -8.704 kHz 0 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 20.33 MHz x dB -26.00 dB STATUS

Test Mode: TM 1 & ANT 1 & Ch.60

Test Mode: TM 1 & ANT 1 & Ch.64

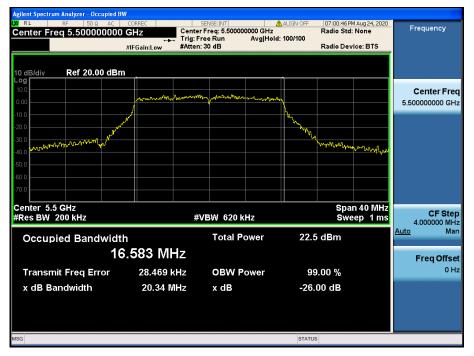


26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.32000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 06:54:54 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.320000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm Center Freq A . Ao 5.320000000 GHz A.M. w March Center 5.32 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms CF Step 4.000000 MHz #VBW 620 kHz Man <u>Auto</u> **Occupied Bandwidth** Total Power 22.0 dBm 16.539 MHz Freq Offset Transmit Freq Error -2.867 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 20.35 MHz x dB -26.00 dB STATUS

Test Mode: TM 1 & ANT 1 & Ch.100

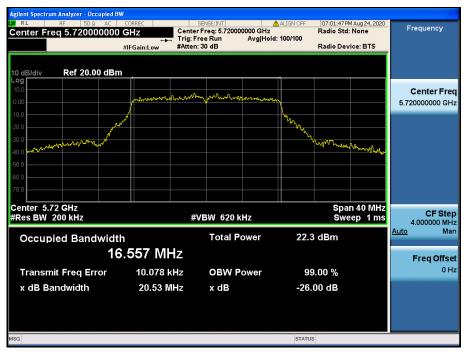
Test Mode: TM 1 & ANT 1 & Ch.120



26 dB Bandwidth

trum Analyzer - Occupied BW SENSE:INT ALIGN OFF Center Freq: 5.60000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 07:01:16 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.600000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 3/div Center Freq 5.60000000 GHz 1 mm -----Center 5.6 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms CF Step 4.000000 MHz Man #VBW 620 kHz Auto Occupied Bandwidth Total Power 22.3 dBm 16.605 MHz **Freq Offset** -9.424 kHz 0 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 20.09 MHz x dB -26.00 dB STATUS

Test Mode: TM 1 & ANT 1 & Ch.144



Test Mode: TM 2 & ANT 1 & Ch.36

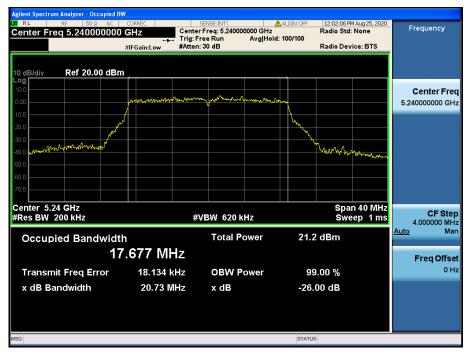


26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.20000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 12:01:33 PM Aug 25, 2020 Radio Std: None Frequency Center Freq 5.200000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm Center Freq 5.200000000 GHz MA.we սեստ Center 5.2 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms CF Step 4.000000 MHz #VBW 620 kHz Man <u>Auto</u> **Occupied Bandwidth** Total Power 21.0 dBm 17.702 MHz Freq Offset Transmit Freq Error 19.609 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 20.85 MHz x dB -26.00 dB STATUS

Test Mode: TM 2 & ANT 1 & Ch.40

Test Mode: TM 2 & ANT 1 & Ch.48



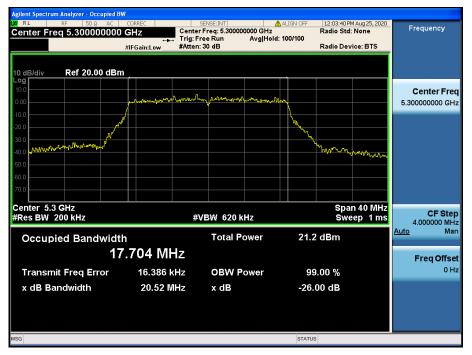
26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.26000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 12:03:07 PM Aug 25, 2020 Radio Std: None Frequency Center Freq 5.260000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm Center Freq 5.260000000 GHz Center 5.26 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms CF Step 4.000000 MHz #VBW 620 kHz Man <u>Auto</u> Total Power **Occupied Bandwidth** 21.3 dBm 17.690 MHz Freq Offset Transmit Freq Error -8.719 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 20.42 MHz x dB -26.00 dB STATUS

Test Mode: TM 2 & ANT 1 & Ch.52

Test Mode: TM 2 & ANT 1 & Ch.60

Test Mode: TM 2 & ANT 1 & Ch.64

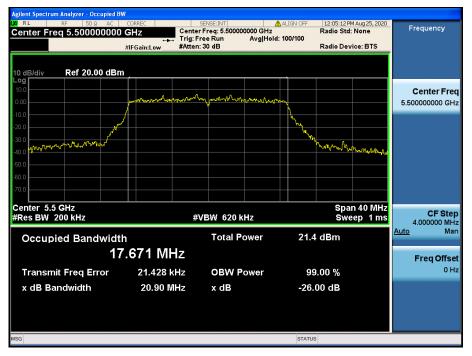


26 dB Bandwidth

trum Analyzer - Occupied BW SENSE:INT ALIGN OFF Center Freq: 5.32000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 12:04:15PM Aug 25, 2020 Radio Std: None Frequency Center Freq 5.320000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 3/div Center Freq 5.320000000 GHz Center 5.32 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms CF Step 4.000000 MHz Man #VBW 620 kHz Auto Occupied Bandwidth Total Power 21.0 dBm 17.668 MHz **Freq Offset** 17.094 kHz 0 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 20.40 MHz x dB -26.00 dB STATUS

Test Mode: TM 2 & ANT 1 & Ch.100

Test Mode: TM 2 & ANT 1 & Ch.120



26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.60000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 12:05:44 PM Aug 25, 2020 Radio Std: None Frequency Center Freq 5.600000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm Center Freq 5.60000000 GHz M have Center 5.6 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms CF Step 4.000000 MHz #VBW 620 kHz Man <u>Auto</u> Total Power **Occupied Bandwidth** 21.2 dBm 17.674 MHz Freq Offset Transmit Freq Error 7.610 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 20.67 MHz x dB -26.00 dB STATUS

Test Mode: TM 2 & ANT 1 & Ch.144

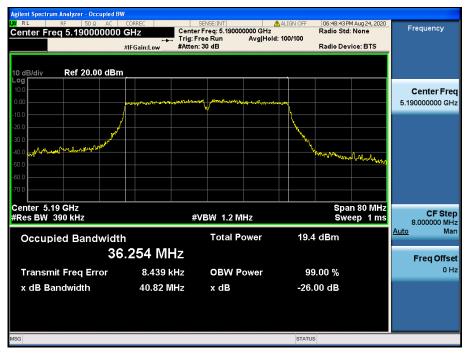


Test Mode: TM 3 & ANT 1 & Ch.38

Test Mode: TM 3 & ANT 1

&

Ch.46



26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.23000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 06:50:32 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.230000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm Center Freq 5.230000000 GHz Center 5.23 GHz #Res BW 390 kHz Span 80 MHz Sweep 1 ms CF Step 8.000000 MHz #VBW 1.2 MHz Man <u>Auto</u> **Occupied Bandwidth** Total Power 21.6 dBm 36.248 MHz Freq Offset Transmit Freq Error 53.649 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 40.93 MHz x dB -26.00 dB STATUS

Test Mode: TM 3 & ANT 1 & Ch.54

Test Mode: TM 3 & ANT 1 & Ch.62

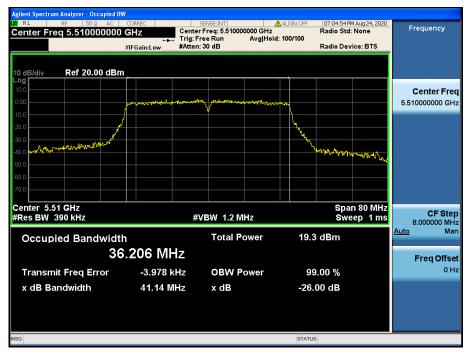


26 dB Bandwidth

GHZ Center Freq: 5.31000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 06:58:30 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.310000000 GHz Radio Device: BTS Ref 20.00 dBm Center Freq 5.310000000 GHz Center 5.31 GHz #Res BW 390 kHz Span 80 MHz Sweep 1 ms CF Step 8.000000 MHz #VBW 1.2 MHz Man <u>Auto</u> **Occupied Bandwidth** Total Power 19.5 dBm 36.172 MHz Freq Offset Transmit Freq Error 11.814 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 41.19 MHz x dB -26.00 dB STATUS

Test Mode: TM 3 & ANT 1 & Ch.102

Test Mode: TM 3 & ANT 1 & Ch.118



26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.59000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 07:05:26 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.590000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm Center Freq 5.590000000 GHz Center 5.59 GHz #Res BW 390 kHz Span 80 MHz Sweep 1 ms CF Step 8.000000 MHz #VBW 1.2 MHz Man <u>Auto</u> **Occupied Bandwidth** Total Power 21.4 dBm 36.231 MHz Freq Offset Transmit Freq Error 2.692 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 41.29 MHz x dB -26.00 dB STATUS

Test Mode: TM 3 & ANT 1 & Ch.142



Test Mode: TM 4 & ANT 1 & Ch.42

Test Mode: TM 4 & ANT 1 & Ch.58



26 dB Bandwidth

GHZ Center Freq: 5.29000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 06:59:48 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.290000000 GHz Radio Device: BTS Ref 20.00 dBm Center Freq 5.290000000 GHz Center 5.29 GHz #Res BW 820 kHz Span 160 MHz Sweep 1 ms CF Step 16.000000 MHz #VBW 2.4 MHz Man Auto Total Power **Occupied Bandwidth** 18.9 dBm 75.715 MHz Freq Offset Transmit Freq Error 45.981 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 83.42 MHz x dB -26.00 dB STATUS

Test Mode: TM 4 & ANT 1 & Ch.106

Test Mode: TM 4 & ANT 1 & Ch.122



26 dB Bandwidth

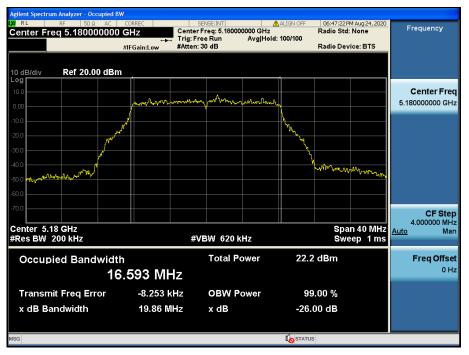
trum Analyzer - Occupied BW SENSE:INT ALIGN OFF Center Freq: 5.61000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 07:07:31PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.610000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 3/div Center Freq 5.61000000 GHz Center 5.61 GHz #Res BW 820 kHz Span 160 MHz Sweep 1 ms **CF Step** 16.000000 MHz <u>o</u> Man #VBW 2.4 MHz Auto Occupied Bandwidth Total Power 21.0 dBm 75.639 MHz **Freq Offset** 18.837 kHz 0 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 84.02 MHz x dB -26.00 dB STATUS

Test Mode: TM 4 & ANT 1 & Ch.138



Test Mode: TM 1 & ANT 2 & Ch.36

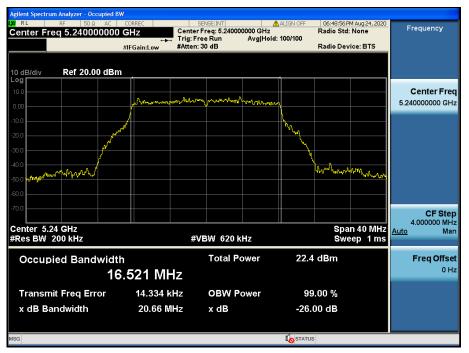
Test Mode: TM 1 & ANT 2 & Ch.40



26 dB Bandwidth

GHZ Center Freq: 5.20000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 06:48:26 PM Aug 24, 202 Radio Std: None Frequency Center Freq 5.200000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** 5.200000000 GHz maline M WWW. CF Step 4.000000 MHz Span 40 MHz Sweep 1 ms Center 5.2 GHz #Res BW 200 kHz Man <u>Auto</u> #VBW 620 kHz Occupied Bandwidth Total Power 22.4 dBm Freq Offset 0 Hz 16.526 MHz Transmit Freq Error 7.452 kHz **OBW Power** 99.00 % x dB Bandwidth 20.11 MHz x dB -26.00 dB

Test Mode: TM 1 & ANT 2 & Ch.48

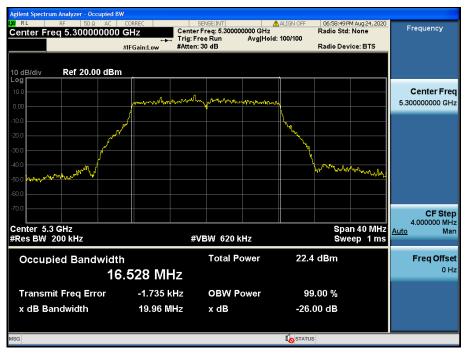


26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.26000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 06:58:18 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.260000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 0 dB/div Center Freq 5.26000000 GHz mm Manylo CF Step 4.000000 MHz Man Center 5.26 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms Auto #VBW 620 kHz 22.5 dBm **Occupied Bandwidth** Total Power **Freq Offset** 0 Hz 16.529 MHz Transmit Freq Error -293 Hz **OBW Power** 99.00 % x dB Bandwidth 20.00 MHz x dB -26.00 dB **I**STATUS

Test Mode: TM 1 & ANT 2 & Ch.52

Test Mode: TM 1 & ANT 2 & Ch.60



26 dB Bandwidth

GHZ Center Freq: 5.32000000 GHz #IFGain:Low #Atten: 30 dB 06:59:20 PM Aug 24, 202 Radio Std: None Frequency Center Freq 5.320000000 GHz Radio Device: BTS 0 dB/d Ref 20.00 dBm **Center Freq** 5.320000000 GHz n.... M CF Step 4.000000 MHz Man Span 40 MHz Sweep 1 ms Center 5.32 GHz #Res BW 200 kHz <u>Auto</u> #VBW 620 kHz Occupied Bandwidth Total Power 22.1 dBm Freq Offset 0 Hz 16.545 MHz Transmit Freq Error 7.479 kHz **OBW Power** 99.00 % x dB Bandwidth 20.59 MHz x dB -26.00 dB

Test Mode: TM 1 & ANT 2 & Ch.64

Test Mode: TM 1 & ANT 2 & Ch.100

Test Mode: TM 1 & ANT 2 &

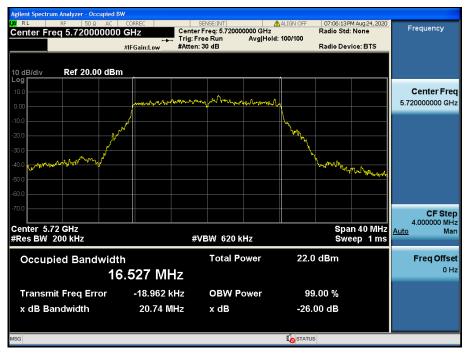
Ch.120



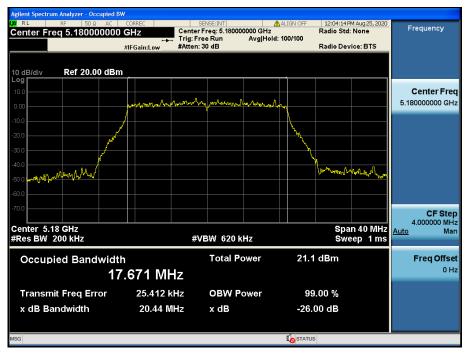
26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.60000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 07:05:43 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.600000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 0 dB/div Center Freq 5.60000000 GHz uñ i Mary CF Step 4.000000 MHz Man Center 5.6 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms Auto #VBW 620 kHz 22.5 dBm **Occupied Bandwidth** Total Power **Freq Offset** 0 Hz 16.556 MHz Transmit Freq Error 13.101 kHz **OBW Power** 99.00 % x dB Bandwidth 20.59 MHz x dB -26.00 dB **I**STATUS

Test Mode: TM 1 & ANT 2 & Ch.144



Test Mode: TM 2 & ANT 2 & Ch.36

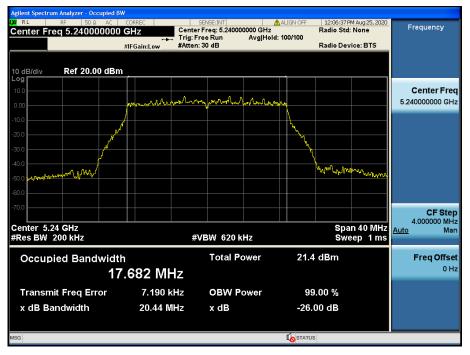


26 dB Bandwidth

GHZ Center Freq: 5.20000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 12:06:04 PM Aug 25, 20 Radio Std: None Frequency Center Freq 5.200000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** MARA 5.200000000 GHz who prost Mr. Collinger CF Step 4.000000 MHz Span 40 MHz Sweep 1 ms Center 5.2 GHz #Res BW 200 kHz Man <u>Auto</u> #VBW 620 kHz Occupied Bandwidth Total Power 21.4 dBm Freq Offset 0 Hz 17.696 MHz Transmit Freq Error 2.751 kHz **OBW Power** 99.00 % x dB Bandwidth 20.38 MHz x dB -26.00 dB

Test Mode: TM 2 & ANT 2 & Ch.40

Test Mode: TM 2 & ANT 2 & Ch.48



26 dB Bandwidth

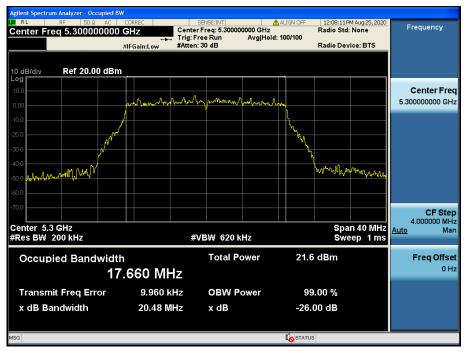
GHZ Center Freq: 5.26000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 12:07:38 PM Aug 25, 20 Radio Std: None Frequency Center Freq 5.260000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** 5.260000000 GHz anonal alist Υ٩... CF Step 4.000000 MHz Span 40 MHz Sweep 1 ms Center 5.26 GHz #Res BW 200 kHz Man <u>Auto</u> #VBW 620 kHz Occupied Bandwidth Total Power 21.4 dBm Freq Offset 0 Hz 17.674 MHz Transmit Freq Error 6.634 kHz **OBW Power** 99.00 % x dB Bandwidth 20.63 MHz x dB -26.00 dB

Test Mode: TM 2 & ANT 2 & Ch.52

Test Mode: TM 2 & ANT 2 & Ch.60

Test Mode: TM 2 & ANT 2 &

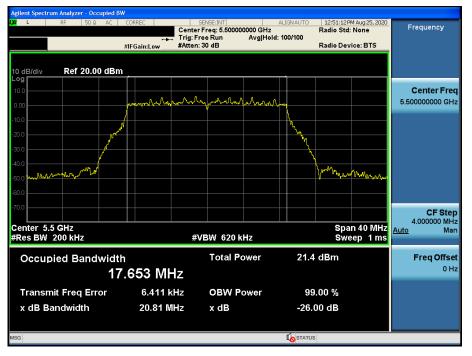
Ch.64



26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.32000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 12:08:45 PM Aug 25, 2020 Radio Std: None Frequency Center Freq 5.320000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 0 dB/div Center Freq man 5.320000000 GHz ۰۸ munh AM . web wash CF Step 4.000000 MHz Man Center 5.32 GHz #Res BW 200 kHz Span 40 MHz Sweep 1 ms Auto #VBW 620 kHz **Occupied Bandwidth** Total Power 21.2 dBm **Freq Offset** 0 Hz 17.673 MHz Transmit Freq Error 5.748 kHz **OBW Power** 99.00 % x dB Bandwidth 20.99 MHz x dB -26.00 dB **I**STATUS

Test Mode: TM 2 & ANT 2 & Ch.100

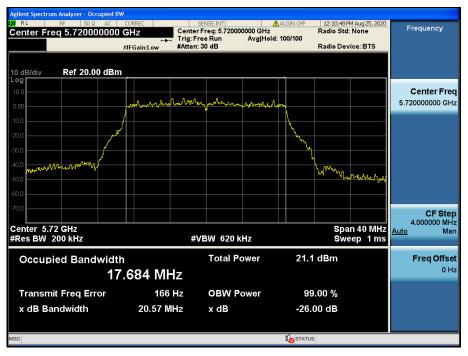


26 dB Bandwidth

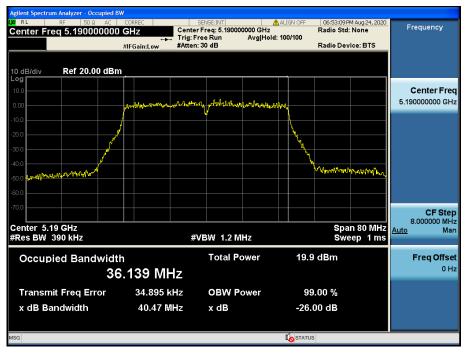
GHZ Center Freq: 5.60000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 12:10:14 PM Aug 25, 202 Radio Std: None Frequency Center Freq 5.600000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** manne Anh 5.60000000 GHz www. Martingen h . A.M. CF Step 4.000000 MHz Span 40 MHz Sweep 1 ms Center 5.6 GHz #Res BW 200 kHz Man <u>Auto</u> #VBW 620 kHz Occupied Bandwidth Total Power 21.8 dBm Freq Offset 0 Hz 17.677 MHz Transmit Freq Error 12.190 kHz **OBW Power** 99.00 % x dB Bandwidth 20.26 MHz x dB -26.00 dB **I**STATUS

Test Mode: TM 2 & ANT 2 & Ch.120

Test Mode: TM 2 & ANT 2 & Ch.144



Test Mode: TM 3 & ANT 2 & Ch.38

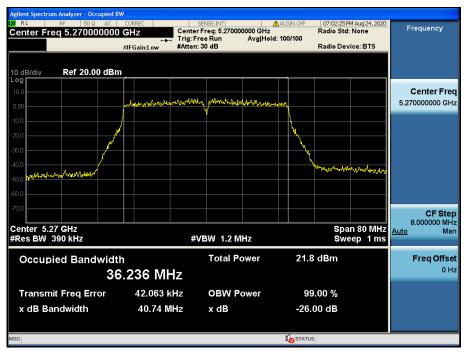


26 dB Bandwidth

GHZ Center Freq: 5.23000000 GHz #IFGain:Low #Atten: 30 dB 06:54:58 PM Aug 24, 202 Radio Std: None Frequency Center Freq 5.230000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** Mannes 5.230000000 GHz Man All Manhan ٠٨. CF Step 8.000000 MHz Span 80 MHz Sweep 1 ms Center 5.23 GHz #Res BW 390 kHz Man <u>Auto</u> #VBW 1.2 MHz Total Power 21.6 dBm Freq Offset **Occupied Bandwidth** 0 Hz 36.254 MHz Transmit Freq Error 29.761 kHz **OBW Power** 99.00 % x dB Bandwidth 40.37 MHz x dB -26.00 dB **I**STATUS

Test Mode: : TM 3 & ANT 2 & Ch.46

Test Mode: TM 3 & ANT 2 & Ch.54

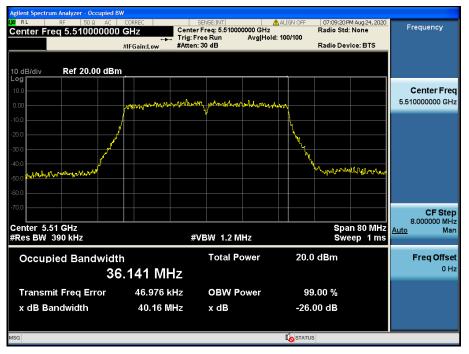


26 dB Bandwidth

GHZ Center Freq: 5,31000000 GHz #IFGain:Low #Atten: 30 dB 07:02:55 PM Aug 24, 202 Radio Std: None Frequency Center Freq 5.310000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** 5.310000000 GHz w.M. CF Step 8.000000 MHz Man Span 80 MHz Sweep 1 ms Center 5.31 GHz #Res BW 390 kHz <u>Auto</u> #VBW 1.2 MHz Total Power 19.9 dBm Freq Offset **Occupied Bandwidth** 0 Hz 36.207 MHz Transmit Freq Error 41.363 kHz **OBW Power** 99.00 % x dB Bandwidth 40.45 MHz x dB -26.00 dB **I**STATUS

Test Mode: TM 3 & ANT 2 & Ch.62

Test Mode: TM 3 & ANT 2 & Ch.102

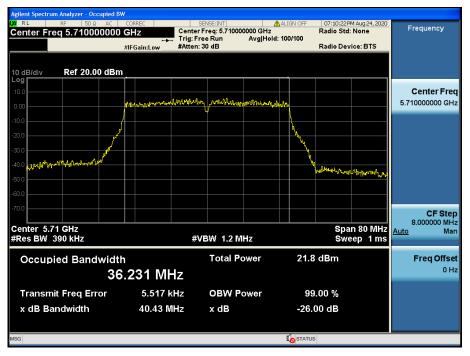


26 dB Bandwidth

GHZ Center Freq: 5.59000000 GHz #IFGain:Low #Atten: 30 dB 07:09:52 PM Aug 24, 202 Radio Std: None Frequency Center Freq 5.590000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** Marrigh 5.59000000 GHz Marchengelann CF Step 8.000000 MHz Span 80 MHz Sweep 1 ms Center 5.59 GHz #Res BW 390 kHz Man <u>Auto</u> #VBW 1.2 MHz Total Power 22.3 dBm Freq Offset **Occupied Bandwidth** 0 Hz 36.207 MHz Transmit Freq Error 15.417 kHz **OBW Power** 99.00 % x dB Bandwidth 40.43 MHz x dB -26.00 dB **I**STATUS

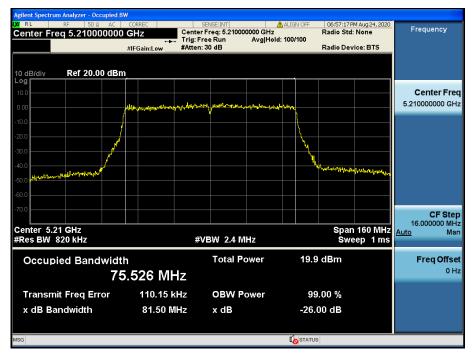
Test Mode: TM 3 & ANT 2 & Ch.118

Test Mode: TM 3 & ANT 2 & Ch.142



🛈 Dt&C

Test Mode: TM 4 & ANT 2 & Ch.42



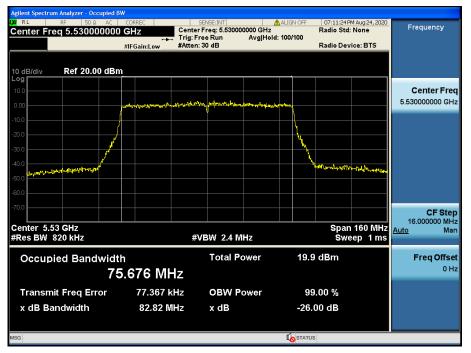
26 dB Bandwidth

GHZ Center Freq: 5.29000000 GHz #IFGain:Low #Atten: 30 dB 07:04:14 PM Aug 24, 202 Radio Std: None Frequency Center Freq 5.290000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** 5.290000000 GHz n de CF Step 16.00000 MHz Span 160 MHz Sweep 1 ms Center 5.29 GHz #Res BW 820 kHz Man Auto #VBW 2.4 MHz Occupied Bandwidth Total Power 19.5 dBm Freq Offset 0 Hz 75.500 MHz Transmit Freq Error 51.764 kHz **OBW Power** 99.00 % x dB Bandwidth 83.80 MHz x dB -26.00 dB **I**STATUS

Test Mode: TM 4 & ANT 2 & Ch.58

Test Mode: TM 4 & ANT 2 & Ch.106

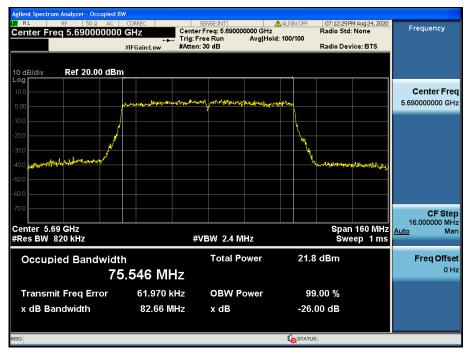
Test Mode: TM 4 & ANT 2 & Ch.122



26 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.61000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 07:11:57 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.610000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 0 dB/div Center Freq 5.61000000 GHz **CF Step** 16.000000 MHz <u>o</u> Man Span 160 MHz Sweep 1 ms Center 5.61 GHz #Res BW 820 kHz Auto #VBW 2.4 MHz **Occupied Bandwidth** Total Power 21.9 dBm **Freq Offset** 0 Hz 75.673 MHz Transmit Freq Error 47.850 kHz **OBW Power** 99.00 % x dB Bandwidth 81.73 MHz x dB -26.00 dB **I**STATUS

Test Mode: TM 4 & ANT 2 & Ch.138



8.2 Minimum Emission Bandwidth (6 dB Bandwidth)

Test Requirements

Within the 5.725 GHz - 5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Configuration

Refer to the APPENDIX I.

Test Procedure

The transmitter output is connected to the Spectrum Analyzer and used following test procedure of **KDB789033 D02v02r01**.

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth \geq 3 x RBW.
- 3. Detector = **Peak**.
- 4. Trace mode = **max hold**.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

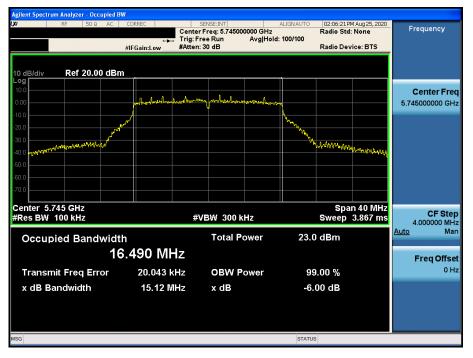
Test Results: Comply

Mode	Band	Channel	Frequency	Test Result [MHz]	
Mode	Band	Channel	[MHz]	ANT 1	ANT 2
		149	5 745	15.12	16.30
TM 1		157	5 785	15.11	15.85
		165	5 825	15.32	15.68
	U-NII 3	149	5 745	15.75	17.19
TM 2		157	5 785	16.05	16.27
		165	5 825	15.99	17.56
TM 3		151	5 755	36.03	35.30
11113		159	5 795	35.06	35.37
TM 4		155	5 775	75.41	75.29

Result Plots

6 dB Bandwidth

Test Mode: TM 1 & ANT 1 & Ch.149



6 dB Bandwidth

Test Mode: TM 1 & ANT 1 & Ch.157



Test Mode: TM 1 & ANT 1 & Ch.165



Test Mode: TM 2 & ANT 1 & Ch.149

Test Mode: TM 2 & ANT 1 & Ch.157



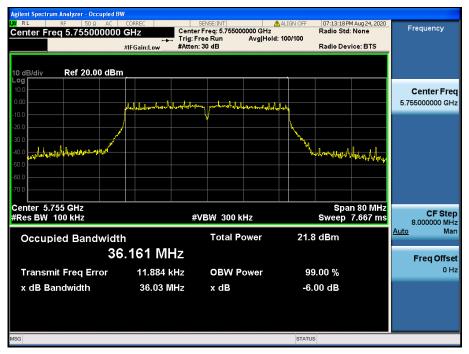
6 dB Bandwidth

SENSE:INT ALIGN OFF Center Freq: 5.785000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 12:07:50 PM Aug 25, 2020 Radio Std: None Frequency Center Freq 5.785000000 GHz #IFGain:Low Radio Device: BTS Ref 20.00 dBm Center Freq al a 5.785000000 GHz Mar In ALAN Span 40 MHz Sweep 3.867 ms Center 5.785 GHz #Res BW 100 kHz CF Step 4.000000 MHz #VBW 300 kHz Man <u>Auto</u> Total Power **Occupied Bandwidth** 21.6 dBm 17.629 MHz Freq Offset Transmit Freq Error -529 Hz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 16.05 MHz x dB -6.00 dB STATUS

Test Mode: TM 2 & ANT 1 & Ch.165

Agilent Spectrum Analyzer - Occupied B IXI RL RF 502 AC Center Freq 5.825000000	CORREC GHz Cente For Trig: #IFGain:Low #Atten	er Freq: 5.825000000 GHz	ALIGN OFF	12:08:24 PM Radio Std: I Radio Devid		Frequency
10 dB/div Ref 20.00 dBn	n pourtoustandlogentrastored	have proved and and the proved and the providence of the providenc				Center Freq 5.825000000 GHz
200 200 300 40.0 500			North Contraction of the second secon	Matras-Alufia	horadowla	
-60.0 -70.0 Center 5.825 GHz #Res BW 100 kHz		₩ 300 kHz		Span Sweep 3	40 MHz	CF Step
Occupied Bandwidt		Total Power	21.2	dBm	5.807 IIIS	4.000000 MHz <u>Auto</u> Man
Transmit Freq Error x dB Bandwidth	3.419 kHz 15.99 MHz	OBW Power x dB		.00 % 00 dB		Freq Offset 0 Hz
MSG			STATUS			

Test Mode: TM 3 & ANT 1 & Ch.151

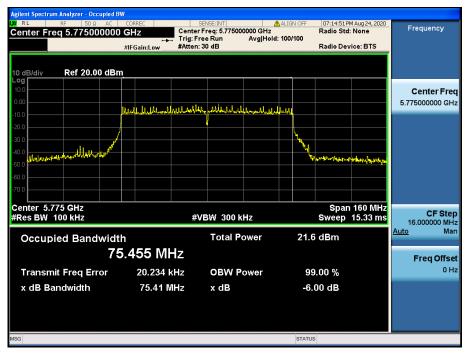


6 dB Bandwidth

GHZ Center Freq: 5.795000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 07:13:51 PM Aug 24, 2020 Radio Std: None Frequency Center Freq 5.795000000 GHz Radio Device: BTS Ref 20.00 dBm Center Freq and a log to a log the whitehallow hours 5.795000000 GHz . A. h. hugh ...l.n 1 Lagya the states - show the fight white Center 5.795 GHz #Res BW 100 kHz Span 80 MHz Sweep 7.667 ms CF Step 8.000000 MHz #VBW 300 kHz Man <u>Auto</u> Total Power **Occupied Bandwidth** 21.9 dBm 36.162 MHz Freq Offset Transmit Freq Error -3.720 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 35.06 MHz x dB -6.00 dB STATUS

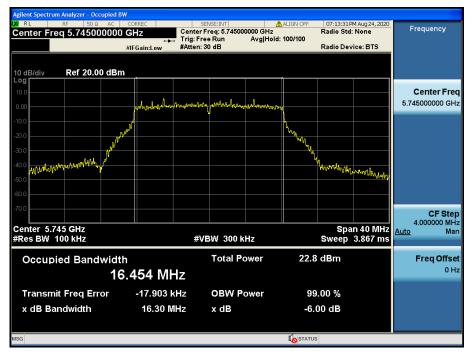
Test Mode: TM 3 & ANT 1 & Ch.159

Test Mode: TM 4 & ANT 1 & Ch.155



🛈 Dt&C

Test Mode: TM 1 & ANT 2 & Ch.149



6 dB Bandwidth

Center Freq: 5.78500000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 30 dB 07:14:02 PM Aug 24, 2020 Radio Std: None R Frequency Center Freq 5.785000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm 0 dB/d Center Frea Bencheralis 5 785000000 GHz In MANA un al wards . WWW Nature CF Step 4.000000 MHz Man Center 5.785 GHz #Res BW 100 kHz Span 40 MHz Sweep 3.867 ms <u>Auto</u> #VBW 300 kHz 23.2 dBm Occupied Bandwidth Total Power Freq Offset 0 Hz 16.445 MHz -11.734 kHz **OBW Power** 99.00 % **Transmit Freq Error** 15.85 MHz x dB Bandwidth x dB -6.00 dB **I**STATUS

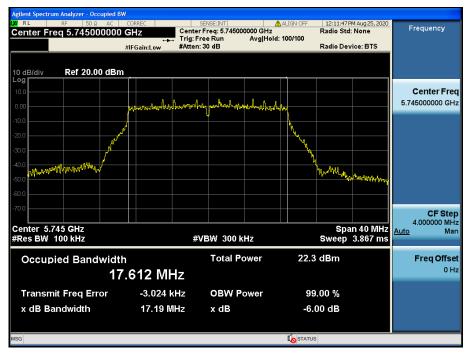
Test Mode: TM 1 & ANT 2 & Ch.157

Test Mode: TM 1 & ANT 2 & Ch.165

Agilent Spectrum Analyzer - Occupied B ₩ RF 50 Ω AC	W CORREC	SENSE:INT	ALIGNAUTO	02:09:57 PM Aug 25, 2020	
	Cente	r Freq: 5.825000000 GHz	d: 100/100	adio Std: None	Frequency
10 dB/div Ref 20.00 dBn	n				
0.00		mpmhermosperitelin	hey		Center Fred 5.825000000 GHz
-10.0	punter in the second		N. March		
-30.0 -40.0 -50.0				Anna for the high of	
-60.0					
Center 5.825 GHz #Res BW 100 kHz		VBW 300 kHz		Span 40 MHz weep 3.867 ms	CF Step
Occupied Bandwidt		Total Power	23.0 d		4.000000 MH <u>Auto</u> Mar
16	6.445 MHz				Freq Offse
Transmit Freq Error	3.160 kHz	OBW Power	99.0	0 %	0 Н
x dB Bandwidth	15.68 MHz	x dB	-6.00	dB	
SG			STATUS		

Test Mode: TM 2 & ANT 2 & Ch.149

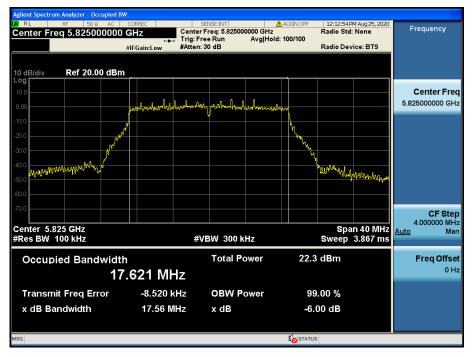
Test Mode: TM 2 & ANT 2 & Ch.157



6 dB Bandwidth

GHZ Center Freq: 5.785000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 12:12:21 PM Aug 25, 202 Radio Std: None Frequency Center Freq 5.785000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** A_4 5.785000000 GHz Maydarman WWWWWW hhall CF Step 4.000000 MHz Man Span 40 MHz Sweep 3.867 ms Center 5.785 GHz #Res BW 100 kHz <u>Auto</u> #VBW 300 kHz Occupied Bandwidth Total Power 22.5 dBm **Freq Offset** 0 Hz 17.628 MHz Transmit Freq Error -1.235 kHz **OBW Power** 99.00 % x dB Bandwidth 16.27 MHz x dB -6.00 dB **I**STATUS

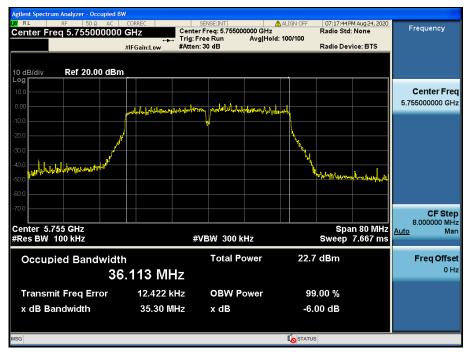
Test Mode: TM 2 & ANT 2 & Ch.165



🛈 Dt&C

Test Mode: TM 3 & ANT 2 & Ch.151

Test Mode: TM 3 & ANT 2 & Ch.159



6 dB Bandwidth

CHZ Center Freq: 5.795000000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 30 dB 07:18:17 PM Aug 24, 202 Frequency Center Freq 5.795000000 GHz Radio Device: BTS 0 dB/di Ref 20.00 dBm **Center Freq** 5.795000000 GHz anterbroadentalatation detable فليعيله mhillounded Mana WH-MARAN Mar J CF Step 8.000000 MHz Man Span 80 MHz Sweep 7.667 ms Center 5.795 GHz #Res BW 100 kHz <u>Auto</u> #VBW 300 kHz Total Power 22.8 dBm Freq Offset **Occupied Bandwidth** 0 Hz 36.133 MHz Transmit Freq Error 10.411 kHz **OBW Power** 99.00 % x dB Bandwidth 35.37 MHz x dB -6.00 dB **I**STATUS

Test Mode: TM 4 & ANT 2 & Ch.155





8.3 Maximum Conducted Output Power

Test Requirements

Part. 15.407(a)

(1) For the band 5.15 GHz - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15 GHz - 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15 GHz - 5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

- (2) For the 5.25 GHz 5.35 GHz
- (3) and 5.470 GHz 5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (4) For the band 5.725 GHz 5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

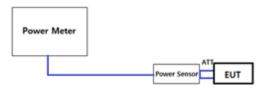
- Output power Limit Calculation

Band	Power Limit [mW]	Calculated Limit [dBm]	Antenna Gain (Worst case) [dBi]	Determined Limit [dBm]
U-NII 1	250	23.97	0.01	23.97

Band	Power Limit [mW] Least 26 dBc BW [MHz]	Calculated Limit [dBm]	Antenna Gain (Worst case) [dBi]	Determined Limit [dBm]	
U-NII 2A	250	23.97	0.01	23.75	
U-INII ZA	19.96	24.00	0.01		
U-NII 2C	250	23.97	-3.49	23.78	
0-INII 2C	20.09	24.02	-3.49	23.70	

Band	Power Limit [mW]	Calculated Limit [dBm]	Antenna Gain [dBi]	Determined Limit [dBm]
U-NII 3	250	23.97	-3.49	23.97

Test Configuration



Method PM-G

Test Procedure

Method PM-G of KDB789033 D02

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Test Results: Comply

- Output Power: Single

	011		Test Result [dBm]		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	
	36	5 180	15.91	15.85	
	40	5 200	15.80	15.87	
	48	5 240	16.01	15.58	
	52	5 260	15.99	15.69	
	60	5 300	15.85	15.69	
802.11a	64	5 320	15.56	15.32	
002.11d	100	5 500	16.02	15.37	
	120	5 600	16.09	15.20	
	144	5 720	15.86	15.17	
	149	5 745	15.99	15.48	
	157	5 785	15.86	15.28	
	165	5 825	15.74	15.18	

Mode	СН	Freq.[MHz]	Test Result [dBm]		
mode	CIT		ANT 1	ANT 2	
	36	5 180	14.52	14.32	
	40	5 200	14.24	14.33	
	48	5 240	14.33	14.09	
	52	5 260	14.43	13.99	
	60	5 300	14.41	13.94	
802.11n	64	5 320	14.21	13.77	
(HT20)	100	5 500	14.62	13.74	
	120	5 600	14.61	13.72	
	144	5 720	14.61	13.68	
	149	5 745	14.54	13.86	
	157	5 785	14.29	13.86	
	165	5 825	14.07	13.57	

Mode	CH	Freq.[MHz]	Test Result[dBm]		
	СН		ANT 1	ANT 2	
	38	5 190	13.10	13.03	
	46	5 230	13.22	12.60	
	54	5 270	13.05	12.68	
	62	5 310	13.05	12.61	
802.11n (HT40)	102	5 510	13.06	12.53	
(1140)	118	5 590	13.16	12.29	
	142	5 710	13.05	12.26	
	151	5 755	12.81	12.10	
	159	5 795	12.82	12.13	

Mode	СН		Test Result[dBm]		
Mode	СП	Freq.[MHz]	ANT 1	ANT 2	
	36	5 180	14.38	14.39	
	40	5 200	14.24	14.41	
	48	5 240	14.33	14.18	
	52	5 260	14.38	14.04	
	60	5 300	14.38	14.00	
802.11ac	64	5 320	14.15	13.76	
(VHT20)	100	5 500	14.54	13.90	
	120	5 600	14.66	13.73	
	144	5 720	14.54	13.61	
	149	5 745	14.47	13.72	
	157	5 785	14.38	13.80	
	165	5 825	14.34	13.61	

TDt&C

Mode	СН		Test Result[dBm]		
Mode	Сп	Freq.[MHz]	ANT 1	ANT 2	
	38	5 190	13.15	12.95	
	46	5 230	13.21	12.69	
	54	5 270	13.13	12.84	
	62	5 310	13.22	12.68	
802.11ac (VHT40)	102	5 510	13.09	12.64	
	118	5 590	13.23	12.28	
	142	5 710	12.97	12.42	
	151	5 755	12.85	12.36	
	159	5 795	12.86	12.22	

Mode	СН	Freq.[MHz]	Test Result[dBm]		
	CI		ANT 1	ANT 2	
	42	5 210	11.82	11.92	
	58	5 290	11.75	11.27	
802.11ac	106	5 530	11.69	11.37	
(VHT80)	122	5 610	11.84	11.24	
	138	5 690	11.84	11.07	
	155	5 775	11.72	11.11	

Dt&C

- Summed Output Power: CDD

			Т	Test Result [dBn		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)	
	36	5 180	15.91	15.85	18.89	
	40	5 200	15.80	15.87	18.85	
	48	5 240	16.01	15.58	18.81	
	52	5 260	15.99	15.69	18.85	
	60	5 300	15.85	15.69	18.78	
802.11a	64	5 320	15.56	15.32	18.45	
002.11a	100	5 500	16.02	15.37	18.72	
	120	5 600	16.09	15.20	18.68	
	144	5 720	15.86	15.17	18.54	
	149	5 745	15.99	15.48	18.75	
	157	5 785	15.86	15.28	18.59	
	165	5 825	15.74	15.18	18.48	

Mala		Test Result [dBm]			
Mode	СН	Freq.[MHz]	MHZ] ANT 1 ANT 2	ANT 2	ANT1+ANT2 (CDD)
	36	5 180	14.52	14.32	17.43
	40	5 200	14.24	14.33	17.30
	48	5 240	14.33	14.09	17.22
	52	5 260	14.43	13.99	17.23
	60	5 300	14.41	13.94	17.19
802.11n(HT20)	64	5 320	14.21	13.77	17.01
002.111(1120)	100	5 500	14.62	13.74	17.21
	120	5 600	14.61	13.72	17.20
	144	5 720	14.61	13.68	17.18
	149	5 745	14.54	13.86	17.22
	157	5 785	14.29	13.86	17.09
	165	5 825	14.07	13.57	16.84

			Test Result[dBm]		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)
	38	5 190	13.10	13.03	16.08
	46	5 230	13.22	12.60	15.93
	54	5 270	13.05	12.68	15.88
000.44	62	5 310	13.05	12.61	15.85
802.11n (HT40)	102	5 510	13.06	12.53	15.81
(111+0)	118	5 590	13.16	12.29	15.76
	142	5 710	13.05	12.26	15.68
	151	5 755	12.81	12.10	15.48
	159	5 795	12.82	12.13	15.50

			Test Result[dBm]		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)
	36	5 180	14.38	14.39	17.40
	40	5 200	14.24	14.41	17.34
	48	5 240	14.33	14.18	17.27
	52	5 260	14.38	14.04	17.22
	60	5 300	14.38	14.00	17.20
802.11ac	64	5 320	14.15	13.76	16.97
(VHT20)	100	5 500	14.54	13.90	17.24
	120	5 600	14.66	13.73	17.23
	144	5 720	14.54	13.61	17.11
	149	5 745	14.47	13.72	17.12
	157	5 785	14.38	13.80	17.11
	165	5 825	14.34	13.61	17.00



Mada	011		Test Result[dBm]		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (CDD)
	38	5 190	13.15	12.95	16.06
	46	5 230	13.21	12.69	15.97
	54	5 270	13.13	12.84	16.00
000 44 5	62	5 310	13.22	12.68	15.97
802.11ac (VHT40)	102	5 510	13.09	12.64	15.88
(((((((((((((((((((((((((((((((((((((((118	5 590	13.23	12.28	15.79
	142	5 710	12.97	12.42	15.71
	151	5 755	12.85	12.36	15.62
	159	5 795	12.86	12.22	15.56

Mode	СН		Test Result[dBm]			n]
Mode	Сп	Freq.[MHz]	ANT 1 ANT 2	ANT1+ANT2 (CDD)		
	42	5 210	11.82	11.92	14.88	
	58	5 290	11.75	11.27	14.53	
802.11ac	106	5 530	11.69	11.37	14.54	
(VHT80)	122	5 610	11.84	11.24	14.56	
	138	5 690	11.84	11.07	14.48	
	155	5 775	11.72	11.11	14.44	

- Summed Output Power: SDM

Mada	CH.		Test Result [dBm]		
Mode	СН	Freq. [MHZ]	Freq. [MHz] ANT 1 ANT	ANT 2	ANT1+ANT2 (SDM)
	36	5 180	14.93	14.77	17.86
	40	5 200	14.87	14.84	17.87
	48	5 240	14.96	14.73	17.86
	52	5 260	15.02	14.59	17.82
	60	5 300	14.99	14.58	17.80
802.11n	64	5 320	14.78	14.21	17.51
(HT20)	100	5 500	15.03	14.37	17.72
	120	5 600	14.96	14.17	17.59
	144	5 720	14.95	14.09	17.55
	149	5 745	14.83	14.32	17.59
	157	5 785	14.87	14.15	17.54
	165	5 825	14.64	14.15	17.41

Mode	СН		Test Result[dBm]		
Mode	Сп	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (SDM)
	38	5 190	13.24	13.05	16.16
	46	5 230	13.24	12.67	15.97
	54	5 270	13.01	12.68	15.86
000.44	62	5 310	12.97	12.58	15.79
802.11n (HT40)	102	5 510	13.05	12.61	15.85
(11140)	118	5 590	13.17	12.27	15.75
	142	5 710	13.17	12.27	15.75
	151	5 755	12.85	12.12	15.51
	159	5 795	13.02	12.29	15.68

	011		Test Result[dBm]		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (SDM)
	36	5 180	14.97	14.86	17.93
	40	5 200	14.87	14.96	17.93
	48	5 240	14.98	14.80	17.90
	52	5 260	15.17	14.62	17.91
	60	5 300	14.97	14.70	17.85
802.11ac	64	5 320	14.72	14.30	17.53
(VHT20)	100	5 500	15.12	14.44	17.80
	120	5 600	15.03	14.27	17.68
	144	5 720	14.92	14.14	17.56
	149	5 745	14.83	14.35	17.61
	157	5 785	14.91	14.26	17.61
	165	5 825	14.71	14.09	17.42

Mada	CH		Test Result[dBm]		
Mode	СН	Freq.[MHz]	ANT 1	ANT 2	ANT1+ANT2 (SDM)
	38	5 190	13.14	13.04	16.10
	46	5 230	13.34	12.75	16.07
	54	5 270	13.10	12.83	15.98
000.44	62	5 310	13.14	12.66	15.92
802.11ac (VHT40)	102	5 510	13.14	12.63	15.90
(11140)	118	5 590	13.22	12.40	15.84
	142	5 710	13.14	12.45	15.82
	151	5 755	12.98	12.26	15.65
	159	5 795	12.98	12.37	15.70

Mode	СН	Freq.[MHz]	Test Result[dB			n]
Mode	Сп		ANT 2	ANT1+ANT2 (SDM)		
	42	5 210	11.82	11.95	14.90	
	58	5 290	11.82	11.33	14.59	
802.11ac	106	5 530	11.74	11.37	14.57	
(VHT80)	122	5 610	12.02	11.31	14.69	
	138	5 690	11.95	11.15	14.58	
	155	5 775	11.88	11.12	14.53	



8.4 Maximum Power Spectral Density

Test requirements

Part. 15.407(a)

(1) For the band 5.15 GHz - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(ii) For an indoor access point operating in the band 5.15 GHz - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. ^{note1}

(iii) For fixed point-to-point access points operating in the band 5.15 GHz - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 GHz - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. ^{note1}

- (2) For the 5.25 GHz 5.35 GHz and 5.470 GHz 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band.^{note1}
- (3) For the band 5.725 GHz 5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.^{note1,note2}
- **Note1**: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- **Note2**: Fixed point to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

Band	Limit [dBm]	Antenna Gain (Worst case) [dBi]	Determined Limit [dBm]
U-NII 1	11	0.01	11
U-NII 2A	11	0.01	11
U-NII 2C	11	-3.49	11
U-NII 3	30	-3.49	30

- Peak Power Spectral Density Limit Calculation

Test Configuration

Refer to the APPENDIX I.

Test Procedure

Maximum Power Spectral Density is measured using Measurement Procedure of KDB789033 D02v02r01

- Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA - 1, SA - 2, SA - 3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
- 2) Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- 3) Make the following adjustments to the peak value of the spectrum, if applicable:

 a) If Method SA 2 or SA 2 Alternative was used, add 10 log(1 / x), where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA 3 Alternative was used and the linear mode was used in step II.E.2.g (viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
- 4) The result is the Maximum PSD over 1 MHz reference bandwidth.
- 5) For devices operating in the bands 5.15 GHz 5.25 GHz, 5.25 GHz 5.35 GHz, and 5.47 GHz 5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in §15.407(a)(5). For devices operating in the band 5.725 GHz 5.850 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
 - a) Set RBW ≥ 1 / T, where T is defined in section II.B.1.a). (Refer to Appendix II)
 - b) Set VBW ≥ 3 RBW.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log(500 kHz / RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log(1 MHz / RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW = 100 kHz is available on nearly all spectrum analyzers.

Test Results: Comply

- Summed Power spectral density:

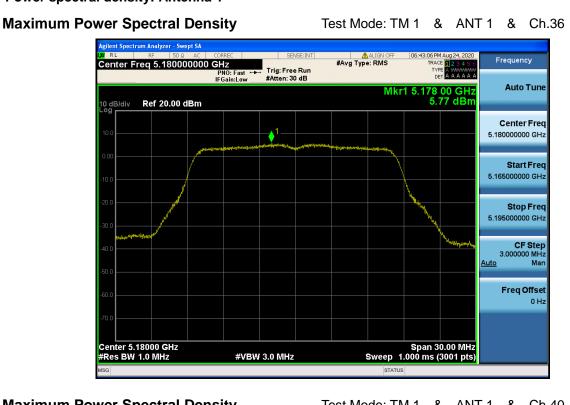
Image: Marking and the second secon	Mode	Channel	Frequency [MHz]	Reading [dBm]		T.F [dB]	Test Result [dBm]
40 5 200 5.81 6.14 48 5 240 5.88 6.32 52 5 260 5.75 6.08 60 5 300 5.69 6.29 100 5 500 6.25 5.74 120 5 600 5.67 6.29 144 5 720 5.75 5.72 120 5 600 5.67 6.29 144 5 720 5.75 5.72 149 5 745 -3.88 -3.00 157 5 785 -3.43 -2.65 165 5 825 -4.01 -3.05 165 5 825 -4.01 -3.05 60 5 300 4.26 4.34 7.55 600 4.32 4.89 7.56 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 165 5 825 -4.92<				ANT 1	ANT 2	Note 1	ANT1+ANT2+T.F
48 5 240 5.88 6.32 9.19 52 5 260 5.75 6.08 9.00 64 5 320 5.40 5.92 9.00 100 5 500 6.25 5.74 9.08 120 5 600 5.67 6.29 9.07 144 5 720 5.75 5.72 8.82 149 5 745 -3.88 -3.00 6.65 157 5 785 -3.43 -2.65 7.06 7.05 165 5 825 -4.01 -3.05 6.57 6.57 36 5 180 4.51 4.46 7.65 6.57 48 5 240 4.41 4.51 7.62 7.65 52 5 260 4.40 4.37 6.0 7.55 60 5 300 4.26 4.34 6.9 7.76 144 5 720 4.11 4.14 4.9 7.29 144 5 720 4.13 4	TM1	36	5 180	5.77	5.88		8.91
52 5 260 5.75 6.08 9.00 60 5 300 5.69 6.29 8.75 64 5 320 5.40 5.92 8.75 100 5 500 6.25 5.74 9.08 120 5 600 5.67 6.29 9.07 144 5 720 5.75 5.72 8.82 149 5 745 -3.88 -3.00 7.06 6.65 157 5 785 -3.43 -2.65 7.06 7.05 165 5 825 -4.01 -3.05 6.57 6.57 36 5 180 4.51 4.46 7.65 7.65 40 5 200 4.35 4.40 7.54 7.65 52 5 260 4.40 4.37 7.55 7.58 120 5 600 4.32 4.89 7.77 7.54 144 5 720 4.11 4.14 7.29 4.55 157 5 785 <		40	5 200	5.81	6.14		9.06
60 5 300 5.69 6.29 0.07 9.08 64 5 320 5.40 5.92 9.08 100 5 500 6.25 5.74 9.08 120 5 600 5.67 6.29 9.07 144 5 720 5.75 5.72 8.82 149 5 745 -3.88 -3.00 7.06 6.65 157 5 785 -3.43 -2.65 7.06 7.05 166 5 825 -4.01 -3.05 6.65 7.05 165 5 825 -4.01 -3.05 6.65 7.06 7.05 160 5 200 4.35 4.40 4.37 7.55 6.57 100 5 500 4.13 4.69 7.58 7.46 7.46 120 5 600 4.32 4.89 7.77 7.55 7.56 144 5 720 4.11 4.14 7.29 5.56 149 5 745 -5.17		48	5 240	5.88	6.32	0.07	9.19
TM1 64 6 320 5.40 5.92 8.75 100 5 500 6.25 5.74 9.08 120 5 600 5.67 6.29 9.07 144 5 720 5.75 5.72 8.82 149 5 745 -3.88 -3.00 6.65 157 5 785 -3.43 -2.65 7.06 7.05 165 5 825 -4.01 -3.05 7.66 7.05 165 5 825 -4.01 -3.05 7.66 7.05 40 5 200 4.35 4.40 4.37 7.55 60 5 300 4.26 4.34 7.55 7.62 52 5 260 4.11 4.14 7.29 7.58 120 5 600 4.32 4.89 7.77 7.58 120 5 600 4.32 4.89 7.77 5.45 157 5 785 -4.78 -4.05 7.14 5.75		52	5 260	5.75	6.08		9.00
TM1 100 5 500 6.25 5.74 9.08 120 5 600 5.67 6.29 9.07 144 5 720 5.75 5.72 8.82 149 5 745 -3.83 -3.00 7.06 6.65 157 5 785 -3.43 -2.65 7.06 6.65 165 5 825 -4.01 -3.05 7.06 7.05 36 5 180 4.51 4.46 7.65 6.57 40 5 200 4.35 4.40 7.55 7.62 52 5 260 4.40 4.37 7.55 7.62 50 120 5 600 4.32 4.89 7.76 7.54 120 5 600 4.32 4.89 7.77 7.46 7.55 165 5 820 -5.17 -4.27 7.14 5.75 149 5 745 -5.17 -4.27 5.45 7.14 5.75 157 5 785		60	5 300	5.69	6.29		9.08
100 5 500 6.25 5.74 9.08 120 5 600 5.67 6.29 9.07 144 5 720 5.75 5.72 8.82 149 5 745 -3.88 -3.00 7.06 7.05 157 5 785 -3.43 -2.65 7.06 7.05 165 5 825 -4.01 -3.05 6.657 6.57 40 5 200 4.35 4.40 7.54 7.55 48 5 240 4.41 4.51 7.62 7.55 52 5 260 4.40 4.37 7.55 6.65 60 5 300 4.26 4.34 7.55 7.66 7.68 100 5 500 4.13 4.69 7.77 7.58 7.77 100 5 600 4.32 4.89 7.77 7.58 7.55 100 5 785 -4.78 -4.05 7.14 5.75 157 5 785 -4.78		64	5 320	5.40	5.92		8.75
144 5 720 5.75 5.72 8.82 149 5 745 -3.88 -3.00 7.06 7.05 157 5 785 -3.43 -2.65 7.06 7.05 165 5 825 -4.01 -3.05 6.65 165 5 825 -4.01 -3.05 6.57 36 5 180 4.51 4.46 7.65 40 5 200 4.35 4.40 4.51 7.62 52 5 260 4.40 4.37 7.55 60 5 300 4.26 4.34 7.62 60 5 300 4.26 4.34 7.59 7.66 7.58 100 5 500 4.13 4.69 7.59 7.14 7.29 144 5 720 1.41 1.41 7.29 7.14 5.75 149 5 745 -5.17 -4.27 7.14 5.75 165 5 825 -4.92 -4.29 5.56 4.77		100	5 500	6.25	5.74		9.08
149 5 745 -3.88 -3.00 7.06 6.65 157 5 785 -3.43 -2.65 7.06 7.05 165 5 825 -4.01 -3.05 7.06 7.05 36 5 180 4.51 4.46 7.55 7.44 40 5 200 4.35 4.40 7.55 52 5 260 4.40 4.37 7.55 60 5 300 4.26 4.34 7.55 60 5 300 4.13 4.69 7.58 100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.14 7.29 144 5 720 4.11 4.14 7.29 5.66 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 5.56 4.77 54 5 270 1.44 1.80 0.22 2.84 102		120	5 600	5.67	6.29		9.07
157 5 785 -3.43 -2.65 7.06 7.05 165 5 825 -4.01 -3.05 6.57 36 5 180 4.51 4.46 7.65 40 5 200 4.35 4.40 48 5 240 4.41 4.51 7.65 52 5 260 4.40 4.37 7.55 60 5 300 4.26 4.34 7.65 7.46 64 5 200 3.83 4.02 100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -9.92 -4.29 9.293 4.6 5 230 1.56 1.52 175 5 4 5 270 1.44		144	5 720	5.75	5.72		8.82
165 5 825 -4.01 -3.05 6.57 36 5 180 4.51 4.46 7.65 40 5 200 4.35 4.40 7.54 48 5 240 4.41 4.51 7.62 52 5 260 4.40 4.37 7.55 60 5 300 4.26 4.34 7.65 100 5 500 4.13 4.69 7.79 100 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 5.56 4.77 5.45 157 5 785 -4.78 -0.04 2.93 4.6 5 230 1.56 1.52 38 5 190 -0.58 -0.04 2.93 4.85 6.33 4.77		149	5 745	-3.88	-3.00	7.06	6.65
36 5 180 4.51 4.46 7.65 40 5 200 4.35 4.40 7.54 48 5 240 4.41 4.51 7.62 52 5 260 4.40 4.37 7.55 60 5 300 4.26 4.34 7.69 7.09 100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 5.56 4.77 54 5 270 1.44 1.80 6.2 5 310 -0.30 -0.49 0.22 2.84 102 5 510 -0.31 -0.42 2.87 4.85 6.2 5 310 -0.31 -0.42 2.87 118		157	5 785	-3.43	-2.65		7.05
40 5 200 4.35 4.40 7.54 48 5 240 4.41 4.51 7.62 52 5 260 4.40 4.37 7.55 60 5 300 4.26 4.34 7.59 60 5 300 4.26 4.34 7.59 60 5 300 4.13 4.69 7.69 100 5 500 4.13 4.69 7.77 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 230 1.56 1.52 4.77 5.45 118 5 590 1.48 2.09 0.22		165	5 825	-4.01	-3.05		6.57
48 5 240 4.41 4.51 7.62 52 5 260 4.40 4.37 7.55 60 5 300 4.26 4.34 7.69 64 5 320 3.83 4.02 7.09 100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.45 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.76 165 5 825 -4.92 -4.29 7.14 5.76 165 5 825 -4.92 -4.29 7.14 5.76 165 5 825 -4.92 -4.29 7.14 5.76 162 5 310 -0.31 <td rowspan="12">TM2</td> <td>36</td> <td>5 180</td> <td>4.51</td> <td>4.46</td> <td rowspan="9">0.15</td> <td>7.65</td>	TM2	36	5 180	4.51	4.46	0.15	7.65
TM2 52 5 260 4.40 4.37 7.55 60 5 300 4.26 4.34 7.09 7.46 64 5 320 3.83 4.02 7.09 7.58 100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 5.56 4.77 54 5 270 1.44 1.80 0.22 2.84 62 5 310 -0.30 -0.49 0.22 2.84 102 5 510 -0.31 -0.42 2.87 5.03 142 5 710 1.48 2.09 5.03 4.47 151 5 755 -7.45 -6.65 7.21 3.19		40	5 200	4.35	4.40		7.54
60 5 300 4.26 4.34 0.15 7.46 64 5 320 3.83 4.02 7.09 7.09 100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 5.56 4.77 38 5 190 -0.58 -0.04 2.93 4.85 62 5 310 -0.30 -0.49 0.22 2.84 102 5 510 -0.31 -0.42 2.87 5.03 142 5 710 1.48 2.09 5.03 4.47 151 5 755 -7.45 -6.65 7.21 2.96 142 5 710 1.42 1.05 -1.57 2.96<		48	5 240	4.41	4.51		7.62
FM2 64 5 320 3.83 4.02 7.09 100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 38 5 190 -0.58 -0.04 2.93 46 5 230 1.56 1.52 4.77 54 5 270 1.44 1.80 0.22 2.84 102 5 510 -0.31 -0.42 2.87 3.03 118 5 590 1.48 2.09 5.03 4.47 151 5 755 -7.45 -6.65 7.21 2.96 142		52	5 260	4.40	4.37		7.55
IM2 100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 1.56 1.52 4.77 5.56 54 5 270 1.44 1.80 0.22 2.84 102 5 510 -0.31 -0.42 2.87 118 5 590 1.48 2.09 5.03 142 5 710 1.42 1.05 4.47 151 <td>60</td> <td>5 300</td> <td>4.26</td> <td>4.34</td> <td>7.46</td>		60	5 300	4.26	4.34		7.46
100 5 500 4.13 4.69 7.58 120 5 600 4.32 4.89 7.77 144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 7.14 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 825 -4.92 -4.29 7.14 5.75 165 5 230 1.56 1.52 4.77 4.85 102 5 510 -0.31 -0.42 2.87 5.03 118 5 755 -7.45 -6.65 7.21		64	5 320	3.83	4.02		7.09
144 5 720 4.11 4.14 7.29 149 5 745 -5.17 -4.27 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 5.56 38 5 190 -0.58 -0.04 5.56 46 5 230 1.56 1.52 4.77 54 5 270 1.44 1.80 0.22 2.84 62 5 310 -0.30 -0.49 0.22 2.84 102 5 510 -0.31 -0.42 2.87 2.87 118 5 590 1.48 2.09 5.03 4.47 151 5 755 -7.45 -6.65 7.21 2.96 142 5 710 1.42 1.05 4.47 2.96 159 5 795 -7.82 -6.76 7.21 2.96 159 5 795 -5.25 -5.10 0.24 -2.02 106<		100	5 500	4.13	4.69		7.58
149 5 745 -5.17 -4.27 5.45 157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 5.66 38 5 190 -0.58 -0.04		120	5 600	4.32	4.89		7.77
157 5 785 -4.78 -4.05 7.14 5.75 165 5 825 -4.92 -4.29 5.56 38 5 190 -0.58 -0.04		144	5 720	4.11	4.14		7.29
165 5 825 -4.92 -4.29 5.56 38 5 190 -0.58 -0.04		149	5 745	-5.17	-4.27	7.14	5.45
38 5 190 -0.58 -0.04 2.93 46 5 230 1.56 1.52 4.77 54 5 270 1.44 1.80 4.85 62 5 310 -0.30 -0.49 0.22 2.84 102 5 510 -0.31 -0.42 2.87 2.87 118 5 590 1.48 2.09 5.03 4.47 118 5 590 1.48 2.09 5.03 4.47 151 5 755 -7.45 -6.65 7.21 2.96 159 5 795 -7.82 -6.76 7.21 2.96 159 5 795 -5.07 -4.59 -1.57 -1.92 106 5 530 -5.27 -5.27 0.24 -2.02 122 5 610 -3.20 -2.50 0.41 138 5 690 -2.97 -2.84 0.35		157	5 785	-4.78	-4.05		5.75
46 5 230 1.56 1.52 54 5 270 1.44 1.80 62 5 310 -0.30 -0.49 102 5 510 -0.31 -0.42 118 5 590 1.48 2.09 142 5 710 1.42 1.05 151 5 755 -7.45 -6.65 159 5 795 -7.82 -6.76 7.21 2.96 42 5 210 -5.07 -4.59 159 5 795 -7.82 -6.76 7.21 2.96 -1.92 106 5 530 -5.27 -5.27 106 5 530 -5.27 -5.27 122 5 610 -3.20 -2.50 0.24 -2.02 0.41 138 5 690 -2.97 -2.84		165	5 825	-4.92	-4.29		5.56
54 5 270 1.44 1.80 4.85 62 5 310 -0.30 -0.49 0.22 2.84 102 5 510 -0.31 -0.42 2.87 118 5 590 1.48 2.09 5.03 142 5 710 1.42 1.05 4.47 151 5 755 -7.45 -6.65 7.21 3.19 159 5 795 -7.82 -6.76 7.21 2.96 42 5 210 -5.07 -4.59 -1.57 -1.92 58 5 290 -5.25 -5.10 -1.92 -1.92 106 5 530 -5.27 -5.27 0.24 -2.02 1138 5 690 -2.97 -2.84 0.35	TM3	38	5 190	-0.58	-0.04		2.93
62 5 310 -0.30 -0.49 0.22 2.84 102 5 510 -0.31 -0.42 2.87 2.87 118 5 590 1.48 2.09 5.03 5.03 142 5 710 1.42 1.05 4.47 151 5 755 -7.45 -6.65 7.21 3.19 159 5 795 -7.82 -6.76 7.21 2.96 159 5 795 -7.82 -6.76 -1.57 2.96 159 5 795 -7.82 -6.76 -1.57 2.96 159 5 795 -7.82 -6.76 -1.57 2.96 159 5 795 -7.82 -6.76 -1.92 -1.92 106 5 530 -5.27 -5.10 0.24 -2.02 112 5 610 -3.20 -2.50 0.41 0.35 1138 5 690 -2.97 -2.84 0.35 0.35		46	5 230	1.56	1.52	0.22	4.77
TM3 102 5 510 -0.31 -0.42 2.87 118 5 590 1.48 2.09 5.03 5.03 142 5 710 1.42 1.05 4.47 151 5 755 -7.45 -6.65 7.21 3.19 159 5 795 -7.82 -6.76 7.21 2.96 159 5 795 -7.82 -6.76 7.21 2.96 42 5 210 -5.07 -4.59 -1.57 -1.92 58 5 290 -5.25 -5.10 -1.92 -1.92 106 5 530 -5.27 -5.27 0.24 -2.02 1122 5 610 -3.20 -2.50 0.41 0.35		54	5 270	1.44	1.80		4.85
118 5 590 1.48 2.09 5.03 142 5 710 1.42 1.05 4.47 151 5 755 -7.45 -6.65 7.21 3.19 159 5 795 -7.82 -6.76 7.21 2.96 42 5 210 -5.07 -4.59 -1.57 58 5 290 -5.25 -5.10 -1.92 106 5 530 -5.27 -5.27 0.24 -2.02 1122 5 610 -3.20 -2.50 0.41 0.35		62	5 310	-0.30	-0.49		2.84
142 5 710 1.42 1.05 4.47 151 5 755 -7.45 -6.65 7.21 3.19 159 5 795 -7.82 -6.76 7.21 2.96 42 5 210 -5.07 -4.59 -1.57 58 5 290 -5.25 -5.10 -1.92 106 5 530 -5.27 -5.27 0.24 -2.02 122 5 610 -3.20 -2.50 0.41 0.35		102	5 510	-0.31	-0.42		2.87
151 5 755 -7.45 -6.65 7.21 3.19 159 5 795 -7.82 -6.76 7.21 2.96 42 5 210 -5.07 -4.59		118	5 590	1.48	2.09		5.03
159 5 795 -7.82 -6.76 7.21 2.96 42 5 210 -5.07 -4.59 -1.57 58 5 290 -5.25 -5.10 -1.92 106 5 530 -5.27 -5.27 0.24 -2.02 122 5 610 -3.20 -2.50 0.41 0.35		142	5 710	1.42	1.05		4.47
159 5 795 -7.82 -6.76 2.96 42 5 210 -5.07 -4.59 -1.57 58 5 290 -5.25 -5.10 -1.92 106 5 530 -5.27 -5.27 0.24 -2.02 122 5 610 -3.20 -2.50 0.35 0.35		151	5 755	-7.45	-6.65	7.21	3.19
58 5 290 -5.25 -5.10 -1.92 106 5 530 -5.27 -5.27 0.24 -2.02 122 5 610 -3.20 -2.50 0.41 0.35 138 5 690 -2.97 -2.84 0.35 0.35		159	5 795	-7.82	-6.76		2.96
TM4 106 5 530 -5.27 -5.27 0.24 -2.02 122 5 610 -3.20 -2.50 0.41 0.41 138 5 690 -2.97 -2.84 0.35	TM4	42	5 210	-5.07	-4.59	0.24	-1.57
1M4 122 5 610 -3.20 -2.50 0.41 138 5 690 -2.97 -2.84 0.35		58	5 290	-5.25	-5.10		-1.92
1M4 122 5 610 -3.20 -2.50 0.41 138 5 690 -2.97 -2.84 0.35		106	5 530	-5.27	-5.27		-2.02
138 5 690 -2.97 -2.84 0.35		122					0.41
		138			-2.84		0.35
155 5 775 -11.40 -10.71 7.23 -0.80		155				7.23	-0.80

Note 1: "U-NII 3 [T.F] = 10*LOG(500 kHz / 100 kHz) + DCCF" = 6.99 dB + DCCF For DCCF (Duty Cycle Correction Factor) please refer to appendix II.

Note 2: Test Result = Measurement Data + T.F

RESULT PLOTS

- Power spectral density: Antenna 1



Maximum Power Spectral Density







Test Mode: TM 1 & ANT 1 & Ch.52



Maximum Power Spectral Density







Test Mode: TM 1 & ANT 1 & Ch.100



Maximum Power Spectral Density







Test Mode: TM 1 & ANT 1 & Ch.149



Maximum Power Spectral Density









Test Mode: TM 2 & ANT 1 & Ch.36









Test Mode: TM 2 & ANT 1 & Ch.52



Maximum Power Spectral Density







Dt&C

Maximum Power Spectral Density

Test Mode: TM 2 & ANT 1 & Ch.100



Maximum Power Spectral Density







Test Mode: TM 2 & ANT 1 & Ch.149



Maximum Power Spectral Density







Test Mode: TM 3 & ANT 1 & Ch.38



Maximum Power Spectral Density





Test Mode: TM 3 & ANT 1 & Ch.54



Maximum Power Spectral Density

