

FCC PART 15.407 TEST REPORT

For

Chengdu Maipu International Infotech Co., Ltd

No.16, Jiuxing Avenue, High-tech Park, Chengdu, China

FCC ID:2AKESAIRCORE818

Report Type:
Original Report

Report Number:
RSZ161115010-00C

Report Date:
2017-01-17
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Chengdu Maipu International Infotech Co., Ltd's product, model number: AirCore818 (FCC ID: 2AKESAIRCORE818) in this report was a Maipu Wireless Access Point, which was measured approximately: 210 mm (L) x210 mm (W) x 26 mm (H), rated with input voltage: DC 24 V from adapter or powered by POE supply.

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* All measurement and test data in this report was gathered from production sample serial number 1603684 (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2016-11-15.

Objective

This type approval report is prepared on behalf of *Chengdu Maipu International Infotech Co., Ltd* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS and part 15B JBP submissions with FCC ID: 2AKESAIRCORE818.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

	Item	Uncertainty	
AC Power Line	s Conducted Emissions	±3.26 dB	
RF conducted test with spectrum		±0.9dB	
RF Output Pov	wer with Power meter	±0.5dB	
Radiated emission	30MHz~1GHz	±5.91dB	
Radiated emission	Above 1G	±4.92dB	
Occupi	ied Bandwidth	±0.5kHz	
Temperature		±1.0℃	
Н	Iumidity	±6%	

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Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China

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Test site at Bay Area Compliance Laboratories Corp. (Kunshan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.10-2013.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 815570. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

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EUT Exercise Software

Soft ware: "artgui.exe"

The test was tested with 100% duty cycle and the worst case was performed as below:

5150 MHz - 5250 MHz:

```
802.11a: Rate 6Mbps, Power level: 15
802.11n20: Rate MCS6.5, Power level: 15
802.11n40: Rate MCS13.5, Power level: 15
802.11ac20: Rate MNSS 6.5, Power level: 15
802.11ac40: Rate MNSS 13.5, Power level: 15
```

5725 MHz - 5850 MHz:

```
802.11a: Rate 6Mbps, Power level: 17
802.11n20: Rate MCS0, Power level: 15
802.11n40: Rate MCS0, Power level: 14
802.11ac20: Rate ISS0, Power level: 15
802.11ac40: Rate ISS0, Power level: 14
```

Antenna system

This Device Emploies Cyclic Delay Diversity.

Total directional gain (dBi) = gain of individual transmit antennas (dBi) + array gain (dB),

When determining reductions in power spectral density limits, array gain is calculated as follows:

Array gain = $10 \log (N_{ANT})$, where N_{ANT} is the number of transmit antennas.

When determining reductions in conducted power limits, array gain is calculated as follows:

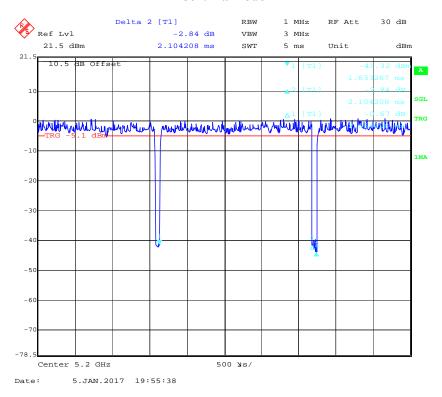
```
Array Gain = 0 dB for N_{ANT} \le 4;
Array Gain = 0 dB for channel widths \ge 40 MHz for any N_{ANT};
Array Gain = 3 dB for 20-MHz channel widths with N_{ANT} \ge 5.
```

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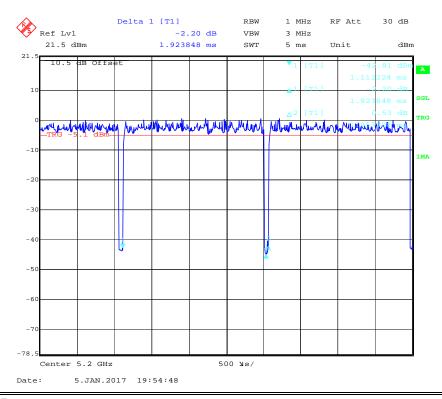
Duty cycle 5150 MHz – 5250 MHz:

802.11a mode

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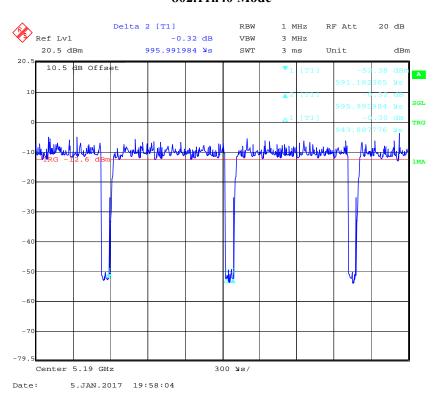
802.11n20 mode



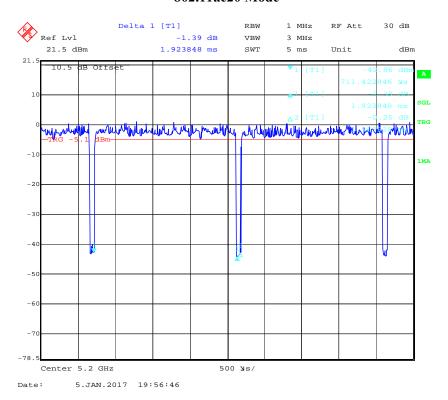
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802.11n40 Mode

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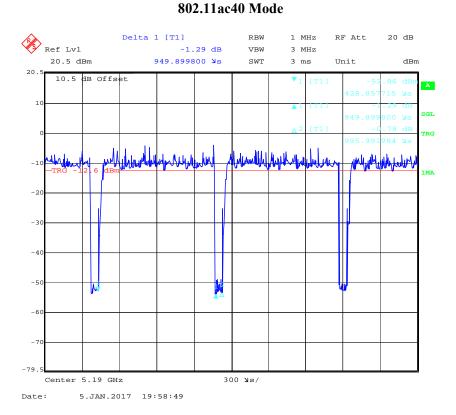


802.11ac20 Mode



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Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	10log(1/x)
802.11a	98	2054	-	10Hz	0
802.11n20	98	1924	-	10Hz	0
802.11n40	95	944	1.06	3kHz	0.22
802.11ac20	98	1924	-	10Hz	0
802.11ac40	95	950	1.05	3kHz	0.22

Note: 5725-5825MHz band was used the same duty cycle to test.

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Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Nootbook	T400	R8-LXAXE 09/12
HUAWEI	POE	PoE35-54A	2102220369ARG6001801
MASS POWER	Adapter	NBS24J240100VU	1604

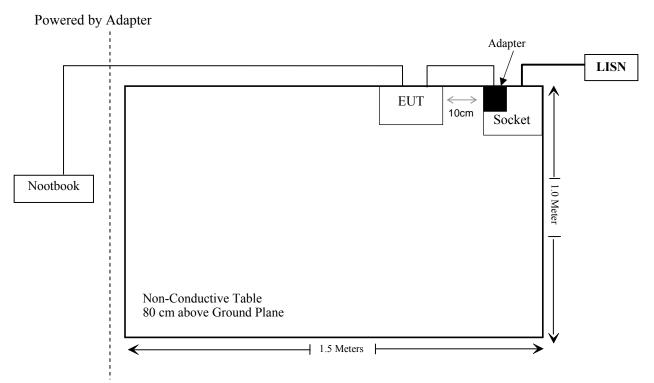
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External I/O Cable

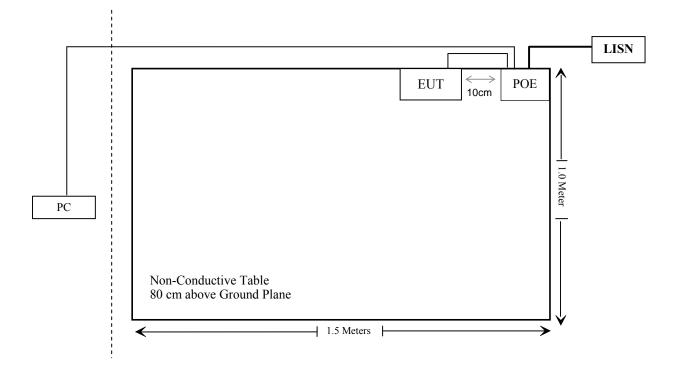
Cable Description	Length (m)	From Port	То
Un-shielding detachable RJ45 cable	1.0	POE	EUT
Un-shielding detachable RJ45 cable	3.0	EUT	Nootbook
Un-shielding detachable RJ45 cable	3.0	POE	Nootbook
Un-shielding detachable AC cable	0.9	Adapter	LISN
Un-shielding Un-detachable DC cable	1.5	EUT	Adapter

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Block Diagram of Test Setup



Powered by POE



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.407 (f), §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.407(b)(6)& §15.207(a)	Conducted Emissions	Compliance
\$15.205& \$15.209 &\$15.407(b) (1),(4),(7)	Undesirable Emission& Restricted Bands	Compliance
§15.407(a) (1),(5),(e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliance
§15.407(a)(1),(3)	Conducted Transmitter Output Power	Compliance
§15.407 (a)(1),(3)	Power Spectral Density	Compliance

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	R	adiation test			
Sonoma Instrunent	Amplifier	330	171377	2016-12-12	2017-12-12
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2016-11-25	2017-11-25
Sunol Sciences	Broadband Antenna	JB3	A090314-2	2016-01-09	2019-01-08
Narda	Pre-amplifier	AFS42- 00101800	2001270	2016-09-08	2017-09-08
EMCO	Horn Antenna	3116	00084159	2016-10-18	2019-10-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	100048	2016-11-25	2017-11-25
Rohde & Schwarz	FSV40 Signal Analyzer	FSV40	101116	2016-07-04	2017-07-03
ETS	Horn Antenna	3115	6229	2016-01-11	2019-01-10
R&S	Auto test Software	EMC32	V 09.10.0	NCR	NCR
haojintech	tech Coaxial Cable		001	2016-12-12	2017-12-12
haojintech	Coaxial Cable	Cable-2	002	2016-12-12	2017-12-12
haojintech	Coaxial Cable	Cable-3	003	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-4	004	2016-12-12	2017-12-12
MICRO-COAX	Coaxial Cable	Cable-5	005	2016-12-12	2017-12-12
	RF	Conducted test			
BACL	TS 8997 Cable-01	T-KS-EMC086	T-KS- EMC086	2016-12-09	2017-12-08
BACL	RF cable	KS-LAB-012	KS-LAB-012	2016-12-15	2017-12-14
WEINSCHEL	3dB Attenuator	5326	N/A	2016-06-18	2017-06-18
Agilent	Power Meter	N1912A	MY5000492	2016-11-18	2017-11-17
Agilent	Power Sensor	N1921A	MY54210024	2016-11-18	2017-11-17
Rohde & Schwarz	FSV40 Signal Analyzer	FSV40	101116	2016-07-04	2017-07-03
Rohde & Schwarz	Signal Analyzer	FSIQ26	836131/009	2016-09-21	2017-09-21

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.407 (f) & §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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Applicable Standard

According to FCC §2.1091 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz)	Power Density (mW/cm²)	Averaging Time (minutes)					
0.3–1.34	614	1.63	*(100)	30			
1.34–30	824/f	2.19/f	*(180/f²)	30			
30–300	27.5	0.073	0.2	30			
300-1500	/	/	f/1500	30			
1500-100,000	/	/	1.0	30			

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

 $S = PG/4\pi R^2 = power density (in appropriate units, e.g. mW/cm^2);$

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data (Worst Case):

Stand-alone:

Frequency	Ante	Antenna Gain		une –up ted Power	Evaluation Distance	Power Density	MPE Limit
(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mW/cm ²)	(mW/cm ²)
5180-5240	1.7	1.48	18.50	70.79	20	0.02	1.0
5745-5825	1.7	1.48	20.50	112.20	20	0.03	1.0

Simultaneous transmising consideration: (refering to the DTS report, the highest MPE for $2.4~\mathrm{GHz}$ band is $0.20~\mathrm{mW/cm^2}$)

The ratio=MPE_{DTS}/limit+MPE_{UNII}/limit=0.2+0.03=0.23<1.0.

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FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

This product has three integrated antenna with maximum gain 1.7 dBi which was soldered on PCB, fulfill the requirement of this section, and please refer to the EUT photo.

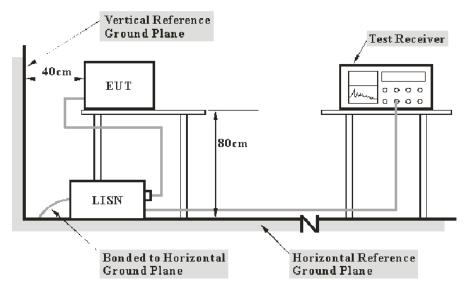
Result: Compliance.

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Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

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Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

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In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	46 %
ATM Pressure:	101.0 kPa

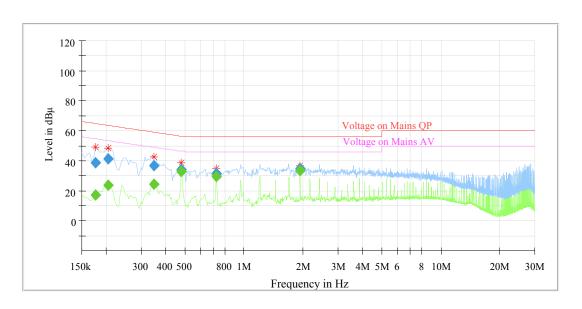
The testing was performed by Layne Li on 2016-12-26.

EUT operation mode: Transmitting (worst case: simultaneous transmission for all the three transmitters)

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Powered by adapter

AC 120V/60 Hz, Line:

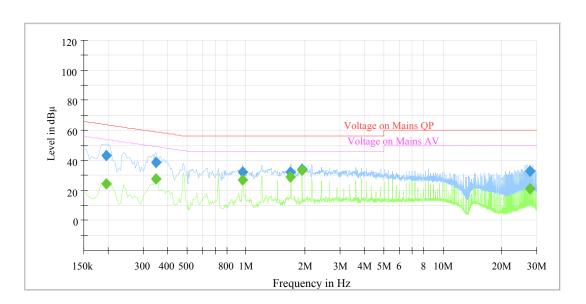


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Frequency (MHz)	QuasiPeak (dBµV)	Average (dB \mu V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.175000		16.85	9.000	L1	10.3	37.87	54.72	Compliance
0.175000	38.87		9.000	L1	10.3	25.85	64.72	Compliance
0.205000		23.74	9.000	L1	10.3	29.67	53.41	Compliance
0.205000	41.36		9.000	L1	10.3	22.05	63.41	Compliance
0.350000		24.41	9.000	L1	10.3	24.55	48.96	Compliance
0.350000	36.33		9.000	L1	10.3	22.63	58.96	Compliance
0.480000		32.45	9.000	L1	10.3	13.89	46.34	Compliance
0.480000	34.33		9.000	L1	10.3	22.01	56.34	Compliance
0.720000		29.35	9.000	L1	10.3	16.65	46.00	Compliance
0.720000	31.17		9.000	L1	10.3	24.83	56.00	Compliance
1.930000		33.30	9.000	L1	10.4	12.70	46.00	Compliance
1.930000	34.52		9.000	L1	10.4	21.48	56.00	Compliance

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AC120V, 60 Hz, Neutral:



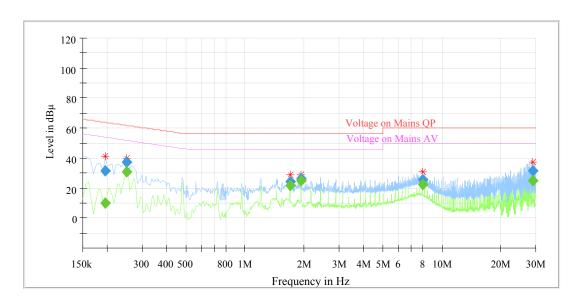
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Frequency (MHz)	QuasiPeak (dBµV)	Average (dB \mu V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.195000		24.18	9.000	N	10.3	29.64	53.82	Compliance
0.195000	43.29		9.000	N	10.3	20.53	63.82	Compliance
0.350000		27.26	9.000	N	10.3	21.70	48.96	Compliance
0.350000	38.79		9.000	N	10.3	20.17	58.96	Compliance
0.965000		27.15	9.000	N	10.3	18.85	46.00	Compliance
0.965000	32.08		9.000	N	10.3	23.92	56.00	Compliance
1.685000		28.60	9.000	N	10.4	17.40	46.00	Compliance
1.685000	32.15		9.000	N	10.4	23.85	56.00	Compliance
1.930000		33.39	9.000	N	10.4	12.61	46.00	Compliance
1.930000	34.22		9.000	N	10.4	21.78	56.00	Compliance
27.740000		21.17	9.000	N	10.5	28.83	50.00	Compliance
27.740000	32.54		9.000	N	10.5	27.46	60.00	Compliance

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Powered by POE

AC 120V/60 Hz, Line:

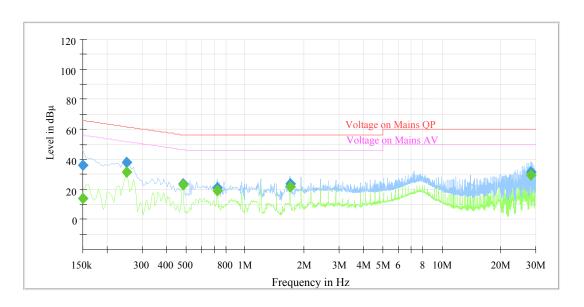


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Frequency (MHz)	QuasiPeak (dBµV)	Average (dB \mu V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.195000		10.26	9.000	L1	10.3	43.56	53.82	Compliance
0.195000	31.56		9.000	L1	10.3	32.26	63.82	Compliance
0.250000		30.62	9.000	L1	10.3	21.14	51.76	Compliance
0.250000	37.42		9.000	L1	10.3	24.34	61.76	Compliance
1.690000		21.59	9.000	L1	10.4	24.41	46.00	Compliance
1.690000	24.10		9.000	L1	10.4	31.90	56.00	Compliance
1.930000		24.68	9.000	L1	10.4	21.32	46.00	Compliance
1.930000	26.18		9.000	L1	10.4	29.82	56.00	Compliance
7.960000		22.31	9.000	L1	10.5	27.69	50.00	Compliance
7.960000	25.40		9.000	L1	10.5	34.60	60.00	Compliance
28.945000		25.11	9.000	L1	10.6	24.89	50.00	Compliance
28.945000	31.18		9.000	L1	10.6	28.82	60.00	Compliance

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AC120V, 60 Hz, Neutral:



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Frequency (MHz)	QuasiPeak (dBµV)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000		14.02	9.000	N	10.3	41.98	56.00	Compliance
0.150000	36.24		9.000	N	10.3	29.76	66.00	Compliance
0.250000		31.59	9.000	N	10.3	20.17	51.76	Compliance
0.250000	37.93		9.000	N	10.3	23.83	61.76	Compliance
0.485000		22.73	9.000	N	10.3	23.52	46.25	Compliance
0.485000	23.78		9.000	N	10.3	32.47	56.25	Compliance
0.720000		19.32	9.000	N	10.3	26.68	46.00	Compliance
0.720000	21.25		9.000	N	10.3	34.75	56.00	Compliance
1.690000		21.68	9.000	N	10.4	24.32	46.00	Compliance
1.690000	23.58		9.000	N	10.4	32.42	56.00	Compliance
28.460000		29.47	9.000	N	10.6	20.53	50.00	Compliance
28.460000	31.51		9.000	N	10.6	28.49	60.00	Compliance

Note:

1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
2) Corrected Amplitude = Reading + Correction Factor
3) Margin = Limit - Corrected Amplitude

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§15.205 & §15.209 & §15.407(B) (1),(4),(6),(7) – UNDESIRABLE EMISSION

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Applicable Standard

FCC §15.407 (b) (1), (2), (4), (6), (7); §15.209; §15.205;

- (b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

KDB 789033 D02 General UNII Test Procedures New Rulesv01, clause II.G 1 d), (ii) $E [dB\mu V/m] = EIRP [dBm] + 95.2$, for d = 3 meters.

KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01 clause E.3)

The general limit of -27 dBm EIRP (= $68 \text{ dB}\mu\text{V/m}$) is applied for unwanted emission of U-NII devices.

However, compliance with unwanted emissions in restricted bands may need to be considered, *e.g.*, some harmonics may land in the restricted bands below 5.15 GHz and above 5.35 GHz (refer

The general limit of -27 dBm EIRP (= $68 \text{ dB}\mu\text{V/m}$) is applied for unwanted emission of U-NII devices.

However, compliance with unwanted emissions in restricted bands may need to be considered, *e.g.*, some harmonics may land in the restricted bands below 5.15 GHz and above 5.35 GHz (refer to § 15.205 for restricted bands) that have average and peak limits specified in §§ 15.209 and 15.35(b), respectively.

Although the peak limit of 74 dB μ V/m (20 dB above 54 dB μ V/m) in the restricted band appears to be higher than 68 dB μ V/m, the lower average limit of 54 dB μ V/m in the restricted bands needs to be complied to

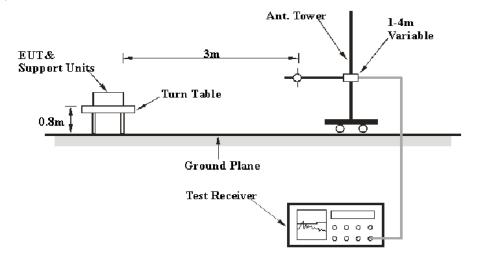
As to transmitters operating in the 5.725-5.85 GHz band, the strictest limit was applied for undesirable emissions, performed as below:

- 1) For 25MHz-75 MHz above or below the band edge, a level of -27 dBm/MHz (68.2dBμV/m) was applied.
- 2) For 5MHz-25 MHz above or below the band edge, a level of 10 dBm/MHz (105.2dBµV/m) was applied.
- 2) For 0MHz-5 MHz above or below the band edge, a level of 15.6 dBm/MHz (110.8dBμV/m) was applied.

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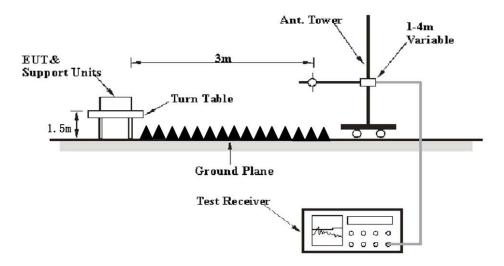
EUT Setup

Below 1 GHz:



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Above 1 GHz:



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to a 120 VAC/60 Hz power source,

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
	1 MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz Note 1	/	Ave.
	1MHz	>1/T Note 2	/	Ave.

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Note 1: when duty cycle is no less than 98% Note 2: when duty cycle is less than 98%

Test Procedure

Radiated Spurious Emission

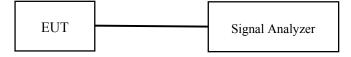
During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

Conducted Spurious Emission at Antenna Port

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. The Resolution bandwidth is set to 1MHz, The Video bandwidth is set to \geq 1MHz, report the peak value out of the oprating band.
- 3. Repeat above procedures until all frequencies measured were complete.



Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

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Test Results Summary

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

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$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	46 %
ATM Pressure:	101.0 kPa

The testing was performed by Layne Li on 2016-12-26.

EUT operation mode: Transmitting (worst case: simultaneous transmission for all the three transmitters)

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30 MHz ~ 40 GHz: (5150-5250 MHz & 5725-5825 MHz)

802.11a mode:

E	Re	eceiver	T4-1-1-	Rx An	itenna	Corrected	Corrected	FCC Part 1	5.407/205/209
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
				5180 M	Hz				
600.01	42.19	QP	204	2.3	V	-5.02	37.17	46	8.83
5180.00	114.75	PK	151	2.3	Н	2.28	117.03	/	/
5180.00	101.35	Ave.	151	2.3	Н	2.28	103.63	/	/
5180.00	107.77	PK	12	1.2	V	2.28	110.05	/	/
5180.00	92.43	Ave.	12	1.2	V	2.28	94.71	/	/
5144.78	57.37	PK	99	1.1	Н	2.17	59.54	74	14.46
5144.78	46.98	Ave.	99	1.1	Н	2.17	49.15	54	4.85
5356.13	54.95	PK	213	1.8	Н	2.28	57.23	74	16.77
5356.13	42.85	Ave.	213	1.8	Н	2.28	45.13	54	8.87
10360.00	46.18	PK	144	1.7	Н	12.9	59.08	74	14.92
10360.00	31.31	Ave.	144	1.7	Н	12.9	44.21	54	9.79
				5200 M	Hz				
600.01	42.24	QP	214	2.5	V	-5.02	37.22	46	8.78
5200.00	116.03	PK	230	1.4	Н	2.28	118.31	/	/
5200.00	102.72	Ave.	230	1.4	Н	2.28	105.00	/	/
5200.00	107.83	PK	72	2.2	V	2.28	110.11	/	/
5200.00	94.24	Ave.	72	2.2	V	2.28	96.52	/	/
5103.15	56.21	PK	254	1.5	Н	2.17	58.38	74	15.62
5103.15	45.24	Ave.	254	1.5	Н	2.17	47.41	54	6.59
5361.83	55.67	PK	9	1.3	Н	2.28	57.95	74	16.05
5361.83	42.91	Ave.	9	1.3	Н	2.28	45.19	54	8.81
10400.00	45.87	PK	117	2.3	Н	12.9	58.77	74	15.23
10400.00	31.65	Ave.	117	2.3	Н	12.9	44.55	54	9.45
				5240 M	Hz				
600.01	41.69	QP	276	1.8	V	-5.02	36.67	46	9.33
5240.00	115.8	PK	344	1.7	Н	2.28	118.08	/	/
5240.00	102.15	Ave.	344	1.7	Н	2.28	104.43	/	/
5240.00	106.57	PK	0	2.4	V	2.28	108.85	/	/
5240.00	93.68	Ave.	0	2.4	V	2.28	95.96	/	/
5374.28	57.23	PK	352	1.7	Н	2.28	59.51	74	14.49
5374.28	44.29	Ave.	352	1.7	Н	2.28	46.57	54	7.43
5137.81	55.05	PK	106	2.4	Н	2.17	57.22	74	16.78
5137.81	42.12	Ave.	106	2.4	Н	2.17	44.29	54	9.71
10480.00	46.17	PK	164	1.0	Н	14.06	60.23	74	13.77
10480.00	31.79	Ave.	164	1.0	Н	14.06	45.85	54	8.15

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	Re	eceiver		Rx An	itenna	Corrected	Corrected	FCC Part 1	5.407/205/209
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
				5745 M	Hz				
600.01	41.25	QP	351	2.2	V	-5.02	36.23	46	9.77
5745.00	116.91	PK	251	1.1	Н	2.61	119.52	/	/
5745.00	103.01	Ave.	251	1.1	Н	2.61	105.62	/	/
5745.00	108.59	PK	87	2.1	V	2.61	111.20	/	/
5745.00	94.33	Ave.	87	2.1	V	2.61	96.94	/	/
5721.53	73.22	PK	174	2.4	Н	2.61	75.83	110.8	34.97
5718.11	69.34	PK	151	2.0	Н	2.61	71.95	105.2	33.25
5666.83	58.97	PK	57	1.9	Н	2.61	61.58	68.2	6.62
11490.00	44.71	PK	60	1.6	Н	15.15	59.86	74	14.14
11490.00	30.43	Ave.	60	1.6	Н	15.15	45.58	54	8.42
				5785 M	Hz				
600.01	42.35	QP	3	1.0	V	-5.02	37.33	46	8.67
5785.00	113.57	PK	299	1.7	Н	3.49	117.06	/	/
5785.00	99.69	Ave.	299	1.7	Н	3.49	103.18	/	/
5785.00	105.96	PK	62	1.4	V	3.49	109.45	/	/
5785.00	91.36	Ave.	62	1.4	V	3.49	94.85	/	/
5720.69	57.45	PK	102	1.6	Н	2.61	60.06	110.8	50.74
5713.30	57.31	PK	153	1.3	Н	2.61	59.92	105.2	45.28
5650.20	56.34	PK	105	1.8	Н	2.61	58.95	68.2	9.25
11570.00	45.19	PK	43	1.5	Н	14.76	59.95	74	14.05
11570.00	32.19	Ave.	43	1.5	Н	14.76	46.95	54	7.05
				5825 M	Hz				
600.01	42.43	QP	222	1.3	V	-5.02	37.41	46	8.59
5825.00	113.22	PK	68	1.3	Н	3.49	116.71	/	/
5825.00	98.7	Ave.	68	1.3	Н	3.49	102.19	/	/
5825.00	105.98	PK	178	1.3	V	3.49	109.47	/	/
5825.00	93.18	Ave.	178	1.3	V	3.49	96.67	/	/
5850.47	62.18	PK	221	2.4	Н	3.49	65.67	110.8	45.13
5855.60	57.59	PK	344	1.3	Н	3.49	61.08	105.2	44.12
5882.81	56.26	PK	231	2.0	Н	3.49	59.75	68.2	8.45
11650.00	45.10	PK	12	1.3	Н	14.76	59.86	74	14.14
11650.00	31.09	Ave.	12	1.3	Н	14.76	45.85	54	8.15

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802.11n20 mode:

F	Re	eceiver	T. 4 1.1	Rx An	itenna	Corrected	Corrected	FCC Part 1	5.407/205/209
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	(30)			5180 M				(2 2 2 2	(")
600.01	42.44	QP	38	2.5	V	-5.02	37.42	46	8.58
5180.00	116.51	PK	281	2.3	Н	2.28	118.79	/	/
5180.00	101.94	Ave.	281	2.3	Н	2.28	104.22	/	/
5180.00	106.11	PK	7	1.0	V	2.28	108.39	/	/
5180.00	92.34	Ave.	7	1.0	V	2.28	94.62	/	/
5148.25	59.42	PK	88	1.2	Н	2.17	61.59	74	12.41
5148.25	46.00	Ave.	88	1.2	Н	2.17	48.17	54	5.83
5381.33	54.67	PK	75	1.6	Н	2.28	56.95	74	17.05
5381.33	42.70	Ave.	75	1.6	Н	2.28	44.98	54	9.02
10360.00	47.00	PK	322	1.6	Н	12.9	59.90	74	14.10
10360.00	31.55	Ave.	322	1.6	Н	12.9	44.45	54	9.55
				5200 M	Hz				
600.01	42.05	QP	195	1.9	V	-5.02	37.03	46	8.97
5200.00	115.7	PK	285	1.7	Н	2.28	117.98	/	/
5200.00	101.67	Ave.	285	1.7	Н	2.28	103.95	/	/
5200.00	107.4	PK	201	2.0	V	2.28	109.68	/	/
5200.00	94.7	Ave.	201	2.0	V	2.28	96.98	/	/
5114.65	56.66	PK	60	2.4	Н	2.17	58.83	74	15.17
5114.65	44.14	Ave.	60	2.4	Н	2.17	46.31	54	7.69
5355.76	60.59	PK	88	2.4	Н	2.28	62.87	74	11.13
5355.76	46.79	Ave.	88	2.4	Н	2.28	49.07	54	4.93
10400.00	47.45	PK	14	1.3	Н	12.9	60.35	74	13.65
10400.00	31.62	Ave.	14	1.3	Н	12.9	44.52	54	9.48
				5240 M	Hz				
600.01	41.96	QP	340	1.6	V	-5.02	36.94	46	9.06
5240.00	113.28	PK	144	2.5	Н	2.28	115.56	/	/
5240.00	97.77	Ave.	144	2.5	Н	2.28	100.05	/	/
5240.00	107.1	PK	266	1.6	V	2.28	109.38	/	/
5240.00	93.73	Ave.	266	1.6	V	2.28	96.01	/	/
5144.63	55.15	PK	307	1.8	Н	2.17	57.32	74	16.68
5144.63	42.71	Ave.	307	1.8	Н	2.17	44.88	54	9.12
5354.47	57.71	PK	343	2.3	Н	2.28	59.99	74	14.01
5354.47	44.09	Ave.	343	2.3	Н	2.28	46.37	54	7.63
10480.00	46.44	PK	77	1.7	Н	14.06	60.50	74	13.50
10480.00	31.59	Ave.	77	1.7	Н	14.06	45.65	54	8.35

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	Re	eceiver		Rx An	itenna	Corrected	Corrected	FCC Part 1	5.407/205/209
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
				5745 M	Hz				
600.01	41.32	QP	129	1.3	V	-5.02	36.30	46	9.70
5745.00	114.37	PK	214	1.8	Н	2.61	116.98	/	/
5745.00	100.85	Ave.	214	1.8	Н	2.61	103.46	/	/
5745.00	105.74	PK	80	2.4	V	2.61	108.35	/	/
5745.00	93.83	Ave.	80	2.4	V	2.61	96.44	/	/
5724.62	66.48	PK	127	1.9	Н	2.61	69.09	110.8	41.71
5714.90	57.6	PK	353	2.3	Н	2.61	60.21	105.2	44.99
5660.12	58.11	PK	284	2.1	Н	2.61	60.72	68.2	7.48
11490.00	45.05	PK	305	1.8	Н	15.15	60.20	74	13.80
11490.00	30.99	Ave.	305	1.8	Н	15.15	46.14	54	7.86
				5785 M	Hz				
600.01	42.08	QP	318	1.0	V	-5.02	37.06	46	8.94
5785.00	112.51	PK	29	1.4	Н	3.49	116.00	/	/
5785.00	98.10	Ave.	29	1.4	Н	3.49	101.59	/	/
5785.00	107.45	PK	20	1.9	V	3.49	110.94	/	/
5785.00	93.96	Ave.	20	1.9	V	3.49	97.45	/	/
5721.60	57.31	PK	300	1.8	Н	2.61	59.92	110.8	50.88
5707.61	56.54	PK	71	2.2	Н	2.61	59.15	105.2	46.05
5883.50	49.00	PK	307	2.0	Н	3.49	52.49	68.2	15.71
11570.00	44.88	PK	24	2.5	Н	14.76	59.64	74	14.36
11570.00	30.79	Ave.	24	2.5	Н	14.76	45.55	54	8.45
				5825 M	Hz				
600.01	41.62	QP	39	1.4	V	-5.02	36.60	46	9.40
5825.00	111.8	PK	86	1.0	Н	3.49	115.29	/	/
5825.00	97.6	Ave.	86	1.0	Н	3.49	101.09	/	/
5825.00	104.94	PK	347	1.4	V	3.49	108.43	/	/
5825.00	90.47	Ave.	347	1.4	V	3.49	93.96	/	/
5850.87	60.18	PK	140	1.7	Н	3.49	63.67	110.8	47.13
5855.88	56.89	PK	112	1.8	Н	3.49	60.38	105.2	44.82
5884.21	54.82	PK	268	2.3	Н	3.49	58.31	68.2	9.89
11650.00	45.12	PK	243	1.0	Н	14.76	59.88	74	14.12
11650.00	31.09	Ave.	243	1.0	Н	14.76	45.85	54	8.15

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802.11n40 mode:

E	Re	eceiver	T4-1-1-	Rx An	tenna	Corrected	Corrected	FCC Part 1	5.407/205/209
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	$\begin{array}{c} Amplitude \\ (dB\mu V/m) \end{array}$	Limit (dBµV/m)	Margin (dB)
				5190 M	Hz				
600.01	41.59	QP	109	1.8	V	-5.02	36.57	46	9.43
5190.00	113.52	PK	235	1.5	Н	2.28	115.80	/	/
5190.00	96.26	Ave.	235	1.5	Н	2.28	98.54	/	/
5190.00	103.89	PK	53	2.0	V	2.28	106.17	/	/
5190.00	88.70	Ave.	53	2.0	V	2.28	90.98	/	/
5140.88	62.10	PK	243	1.6	Н	2.17	64.27	74	9.73
5140.88	47.16	Ave.	243	1.6	Н	2.17	49.33	54	4.67
5379.33	54.98	PK	204	1.1	Н	2.28	57.26	74	16.74
5379.33	41.50	Ave.	204	1.1	Н	2.28	43.78	54	10.22
10380.00	46.36	PK	147	2.2	Н	12.9	59.26	74	14.74
10380.00	31.65	Ave.	147	2.2	Н	12.9	44.55	54	9.45
				5230 M	Hz				
600.01	41.85	QP	97	2.2	V	-5.02	36.83	46	9.17
5230.00	112.32	PK	143	1.4	Н	2.28	114.60	/	/
5230.00	94.30	Ave.	143	1.4	Н	2.28	96.58	/	/
5230.00	103.31	PK	328	1.9	V	2.28	105.59	/	/
5230.00	89.59	Ave.	328	1.9	V	2.28	91.87	/	/
5091.38	55.00	PK	323	1.1	Н	2.17	57.17	74	16.83
5091.38	42.94	Ave.	323	1.1	Н	2.17	45.11	54	8.89
5406.31	54.44	PK	193	1.8	Н	2.28	56.72	74	17.28
5406.31	42.91	Ave.	193	1.8	Н	2.28	45.19	54	8.81
10460.00	45.64	PK	58	2.2	Н	14.06	59.70	74	14.30
10460.00	31.42	Ave.	58	2.2	Н	14.06	45.48	54	8.52

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	Re	eceiver		Rx Ar	itenna	Corrected	Corrected	FCC Part 1	5.407/205/209
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
				5755 M	Hz				
600.01	42.45	QP	103	2.2	V	-5.02	37.43	46	8.57
5755.00	109.55	PK	2	2.1	Н	3.49	113.04	/	/
5755.00	95.07	Ave.	2	2.1	Н	3.49	98.56	/	/
5755.00	100.91	PK	72	1.3	V	3.49	104.40	/	/
5755.00	87.77	Ave.	72	1.3	V	3.49	91.26	/	/
5722.62	65.70	PK	102	1.6	Н	2.61	68.31	110.8	42.49
5719.95	63.18	PK	208	2.2	Н	2.61	65.79	105.2	39.41
5664.32	55.32	PK	53	2.1	Н	2.61	57.93	68.2	10.27
11510.00	42.89	PK	65	1.3	Н	15.15	58.04	74	15.96
11510.00	29.65	Ave.	65	1.3	Н	15.15	44.80	54	9.20
				5795 M	Hz				
600.01	42.37	QP	198	1.8	V	-5.02	37.35	46	8.65
5795.00	107.63	PK	81	1.3	Н	3.49	111.12	/	/
5795.00	91.87	Ave.	81	1.3	Н	3.49	95.36	/	/
5795.00	100.55	PK	137	1.0	V	3.49	104.04	/	/
5795.00	86.98	Ave.	137	1.0	V	3.49	90.47	/	/
5854.72	54.81	PK	227	2.1	Н	3.49	58.30	110.8	52.50
5874.07	54.46	PK	340	2.3	Н	3.49	57.95	105.2	47.25
5895.94	54.49	PK	205	1.6	Н	3.49	57.98	68.2	10.22
11590.00	44.79	PK	172	2.5	Н	14.76	59.55	74	14.45
11590.00	31.03	Ave.	172	2.5	Н	14.76	45.79	54	8.21

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802.11ac20 mode:

F	Re	eceiver	T. 4 1.1	Rx An	itenna	Corrected	Corrected	FCC Part 1	5.407/205/209
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	, , ,		•	5180 M	Hz			1	, ,
600.01	42.07	QP	86	2.0	V	-5.02	37.05	46	8.95
5180.00	113.65	PK	79	1.5	Н	2.28	115.93	/	/
5180.00	97.43	Ave.	79	1.5	Н	2.28	99.71	/	/
5180.00	107.08	PK	232	1.1	V	2.28	109.36	/	/
5180.00	90.22	Ave.	232	1.1	V	2.28	92.50	/	/
5129.15	55.08	PK	319	1.5	Н	2.17	57.25	74	16.75
5129.15	43.55	Ave.	319	1.5	Н	2.17	45.72	54	8.28
5367.20	54.57	PK	155	2.2	Н	2.28	56.85	74	17.15
5367.20	42.3	Ave.	155	2.2	Н	2.28	44.58	54	9.42
10360.00	45.84	PK	230	1.6	Н	12.9	58.74	74	15.26
10360.00	31.65	Ave.	230	1.6	Н	12.9	44.55	54	9.45
				5200 M	Hz				
600.01	41.08	QP	251	1.2	V	-5.02	36.06	46	9.94
5200.00	113.2	PK	231	2.4	Н	2.28	115.48	/	/
5200.00	97.62	Ave.	231	2.4	Н	2.28	99.90	/	/
5200.00	107.7	PK	207	1.0	V	2.28	109.98	/	/
5200.00	92.82	Ave.	207	1.0	V	2.28	95.10	/	/
5001.57	55.09	PK	305	1.6	Н	2.06	57.15	74	16.85
5001.57	42.34	Ave.	305	1.6	Н	2.06	44.40	54	9.60
5359.61	54.29	PK	326	1.4	Н	2.28	56.57	74	17.43
5359.61	42.84	Ave.	326	1.4	Н	2.28	45.12	54	8.88
10400.00	46.85	PK	269	1.3	Н	12.9	59.75	74	14.25
10400.00	31.96	Ave.	269	1.3	Н	12.9	44.86	54	9.14
				5240 M	Hz				
600.01	41.47	QP	133	1.4	V	-5.02	36.45	46	9.55
5240.00	113.66	PK	286	1.0	Н	2.28	115.94	/	/
5240.00	98.73	Ave.	286	1.0	Н	2.28	101.01	/	/
5240.00	108.12	PK	5	1.8	V	2.28	110.40	/	/
5240.00	93.58	Ave.	5	1.8	V	2.28	95.86	/	/
5139.23	54.54	PK	224	1.5	Н	2.17	56.71	74	17.29
5139.23	42.10	Ave.	224	1.5	Н	2.17	44.27	54	9.73
5360.45	57.70	PK	330	1.6	Н	2.28	59.98	74	14.02
5360.45	44.41	Ave.	330	1.6	Н	2.28	46.69	54	7.31
10480.00	46.33	PK	166	1.2	Н	14.06	60.39	74	13.61
10480.00	31.68	Ave.	166	1.2	Н	14.06	45.74	54	8.26

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	Receiver		_ Rx Antenna		Corrected	Corrected FCC Part 15.407/205/		5.407/205/209	
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
				5745 M	Hz				
600.01	42	QP	242	2.3	V	-5.02	36.98	46	9.02
5745.00	114.73	PK	250	2.5	Н	2.61	117.34	/	/
5745.00	97.97	Ave.	250	2.5	Н	2.61	100.58	/	/
5745.00	105.41	PK	262	2.5	V	2.61	108.02	/	/
5745.00	91.15	Ave.	262	2.5	V	2.61	93.76	/	/
5724.83	67.24	PK	276	1.8	Н	2.61	69.85	110.8	40.95
5715.91	61.74	PK	123	1.6	Н	2.61	64.35	105.2	40.85
5695.39	57.65	PK	221	1.6	Н	2.61	60.26	68.2	7.94
11490.00	45.21	PK	263	2.1	Н	15.15	60.36	74	13.64
11490.00	30.99	Ave.	263	2.1	Н	15.15	46.14	54	7.86
5785 MHz									
600.01	42.05	QP	231	1.1	V	-5.02	37.03	46	8.97
5785.00	113.00	PK	231	2.0	Н	3.49	116.49	/	/
5785.00	97.54	Ave.	231	2.0	Н	3.49	101.03	/	/
5785.00	105.26	PK	251	1.3	V	3.49	108.75	/	/
5785.00	87.28	Ave.	251	1.3	V	3.49	90.77	/	/
5722.52	56.64	PK	122	2.3	Н	2.61	59.25	110.8	51.55
5714.65	56.33	PK	4	1.9	Н	2.61	58.94	105.2	46.26
5656.61	56.69	PK	122	2.1	Н	2.61	59.30	68.2	8.90
11570.00	45.75	PK	257	2.2	Н	14.76	60.51	74	13.49
11570.00	31.80	Ave.	257	2.2	Н	14.76	46.56	54	7.44
				5825 M	Hz				
600.01	41.69	QP	14	1.5	V	-5.02	36.67	46	9.33
5825.00	112.55	PK	245	1.6	Н	3.49	116.04	/	/
5825.00	97.76	Ave.	245	1.6	Н	3.49	101.25	/	/
5825.00	105.19	PK	329	2.4	V	3.49	108.68	/	/
5825.00	91.71	Ave.	329	2.4	V	3.49	95.20	/	/
5852.28	57.38	PK	223	2.3	Н	3.49	60.87	110.8	49.93
5869.70	54.79	PK	320	1.9	Н	3.49	58.28	105.2	46.92
5878.30	54.83	PK	143	1.3	Н	3.49	58.32	68.2	9.88
11650.00	44.90	PK	190	2.1	Н	14.76	59.66	74	14.34
11650.00	30.89	Ave.	190	2.1	Н	14.76	45.65	54	8.35

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802.11ac40 mode:

	Receiver			, Rx Antenna		Corrected	Corrected	FCC Part 15.407/205/209	
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	5190 MHz								
600.01	41.37	QP	108	2.0	V	-5.02	36.35	46	9.65
5190.00	112.77	PK	25	1.9	Н	2.28	115.05	/	/
5190.00	95.92	Ave.	25	1.9	Н	2.28	98.20	/	/
5190.00	105.53	PK	190	1.2	V	2.28	107.81	/	/
5190.00	89.37	Ave.	190	1.2	V	2.28	91.65	/	/
5144.78	62.08	PK	217	1.8	Н	2.17	64.25	74	9.75
5144.78	47.42	Ave.	217	1.8	Н	2.17	49.59	54	4.41
5389.81	55.29	PK	16	1.7	Н	2.28	57.57	74	16.43
5389.81	43.22	Ave.	16	1.7	Н	2.28	45.50	54	8.50
10380.00	45.61	PK	88	1.2	V	12.9	58.51	74	15.49
10380.00	31.80	Ave.	88	1.2	V	12.9	44.70	54	9.30
	5230 MHz								
600.01	42.52	QP	59	1.1	V	-5.02	37.50	46	8.50
5230.00	110.18	PK	264	1.9	Н	2.28	112.46	/	/
5230.00	92.37	Ave.	264	1.9	Н	2.28	94.65	/	/
5230.00	104.07	PK	291	1.8	V	2.28	106.35	/	/
5230.00	89.59	Ave.	291	1.8	V	2.28	91.87	/	/
5126.32	54.75	PK	94	1.4	Н	2.17	56.92	74	17.08
5126.32	42.85	Ave.	94	1.4	Н	2.17	45.02	54	8.98
5363.44	54.74	PK	92	1.4	Н	2.28	57.02	74	16.98
5363.44	43.00	Ave.	92	1.4	Н	2.28	45.28	54	8.72
10460.00	45.71	PK	128	1.3	V	14.06	59.77	74	14.23
10460.00	31.92	Ave.	128	1.3	V	14.06	45.98	54	8.02

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-	Receiver			Rx Anteni		Corrected	Corrected	FCC Part 15.407/205/209	
Frequency (MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)	Turntable Degree	Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	5755 MHz								
600.01	42.05	QP	231	1.1	V	-5.02	37.03	46	8.97
5755.00	108.33	PK	201	1.4	Н	3.49	111.82	/	/
5755.00	93.91	Ave.	201	1.4	Н	3.49	97.40	/	/
5755.00	99.27	PK	8	1.7	V	3.49	102.76	/	/
5755.00	85.44	Ave.	8	1.7	V	3.49	88.93	/	/
5724.74	72.57	PK	144	2.1	Н	2.61	75.18	110.8	35.62
5718.83	67.06	PK	276	2.3	Н	2.61	69.67	105.2	35.53
5696.39	54.01	PK	170	1.2	Н	2.61	56.62	68.2	11.58
11510.00	44.79	PK	306	2.4	Н	15.15	59.94	74	14.06
11510.00	30.19	Ave.	306	2.4	Н	15.15	45.34	54	8.66
	5795 MHz								
600.01	41.05	QP	351	2.1	V	-5.02	36.03	46	9.97
5795.00	108.49	PK	287	2.2	Н	3.49	111.98	/	/
5795.00	93.87	Ave.	287	2.2	Н	3.49	97.36	/	/
5795.00	98.73	PK	118	1.6	V	3.49	102.22	/	/
5795.00	84.17	Ave.	118	1.6	V	3.49	87.66	/	/
5851.81	57.30	PK	227	2.5	Н	3.49	60.79	110.8	50.01
5856.64	52.65	PK	190	2.0	Н	3.49	56.14	105.2	49.06
5875.46	49.51	PK	10	1.7	Н	3.49	53.00	68.2	15.20
11590.00	45.27	PK	180	1.9	Н	14.76	60.03	74	13.97
11590.00	31.11	Ave.	180	1.9	Н	14.76	45.87	54	8.13

Note:

Corrected Amplitude = Corrected Factor + Reading
Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor
Margin = Limit- Corr. Amplitude
Spurious emissions more than 20 dB below the limit were not reported.

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FCC §15.407(a) (1) – 26 dB & 6dB EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

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Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum 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%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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 Data

Environmental Conditions

Temperature:	22~24 °C
Relative Humidity:	45~50 %
ATM Pressure:	100.0~101.0 kPa

The testing was performed by Chris Wang from 2017-01-04 to 2017-01-17.

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EUT operation mode: Transmitting

Test Result: Pass; please refer to the following tables and plots.

5180 MHz - 5240 MHz:

Ant 1:

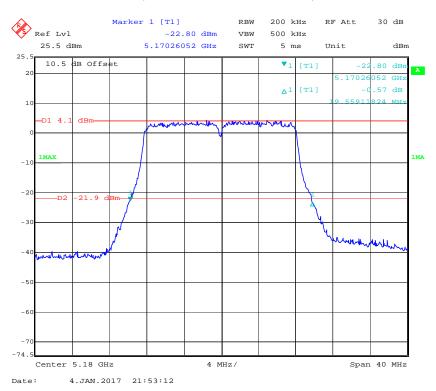
Frequency (MHz)	26dB Emission Bandwidth (MHz)	Remark
802.11	802.11a	
5180	19.559	
5200	19.279	
5240	19.238	
802.11n20		No transmitted signal in the 26
5180	20.361	dB bandwidth extends into the U-NII-2A band
5200	20.160	
5240	20.200	
802.11n40		
5190	40.120	
5230	40.120	

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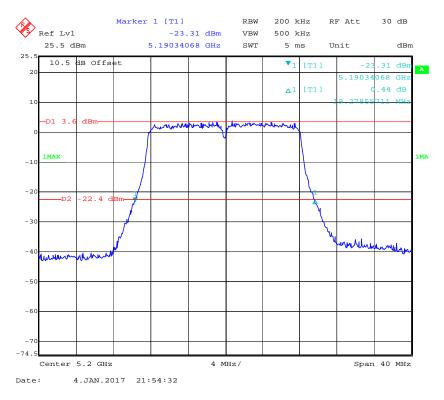
Frequency (MHz)	26dB Emission Bandwidth (MHz)	Remark
802.11ac	802.11ac20	
5180	20.361	
5200	20.240	No transmitted signal in the 26 dB bandwidth extends into the
5240	20.200	
802.11ac40		U-NII-2A band
5190	40.281	
5230	40.120	

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802.11a mode, 26dB Emission Bandwidth, 5180 MHz

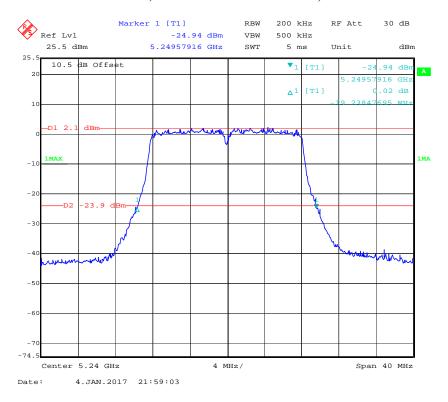


802.11a mode, 26dB Emission Bandwidth, 5200 MHz

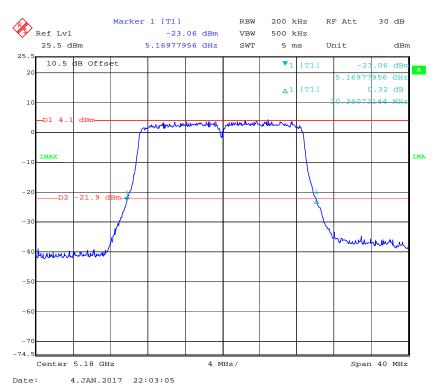


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802.11a mode, 26dB Emission Bandwidth, 5240 MHz

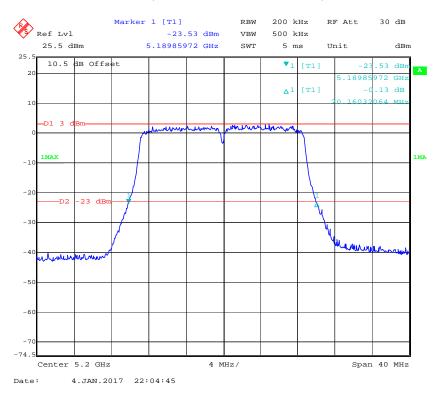


802.11n20 mode, 26dB Emission Bandwidth, 5180 MHz

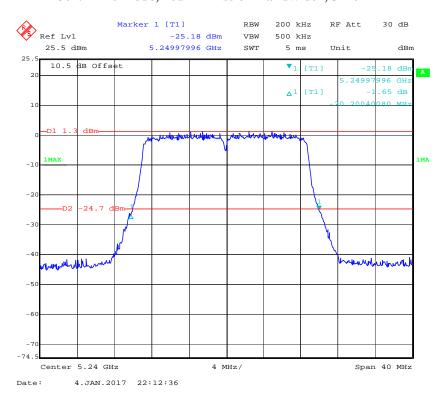


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802.11n20 mode, 26dB Emission Bandwidth, 5200 MHz

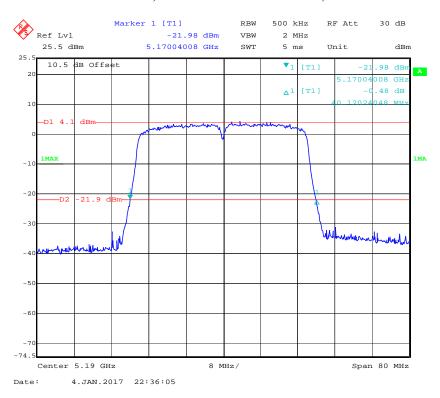


802.11n20 mode, 26dB Emission Bandwidth, 5240 MHz

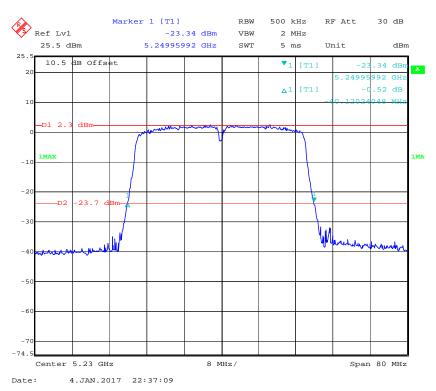


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802.11n40 mode, 26dB Emission Bandwidth, 5190 MHz

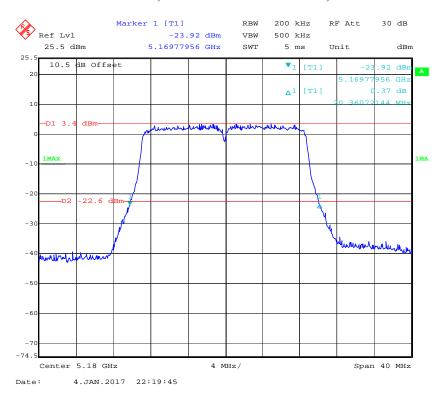


802.11n40 mode, 26dB Emission Bandwidth, 5230 MHz

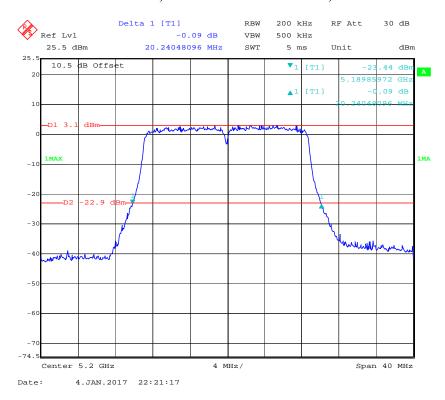


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802.11ac20 mode, 26dB Emission Bandwidth, 5180 MHz

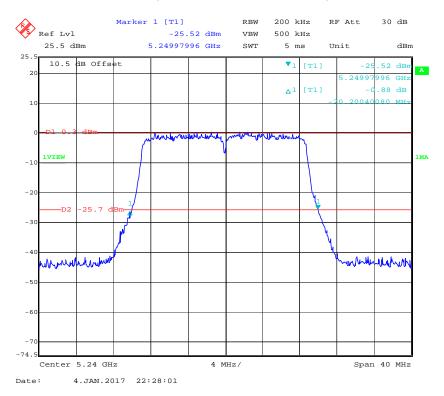


802.11ac20 mode, 26dB Emission Bandwidth, 5200 MHz

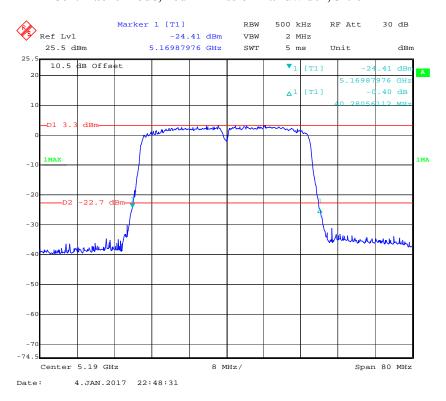


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802.11ac20 mode, 26dB Emission Bandwidth, 5240 MHz

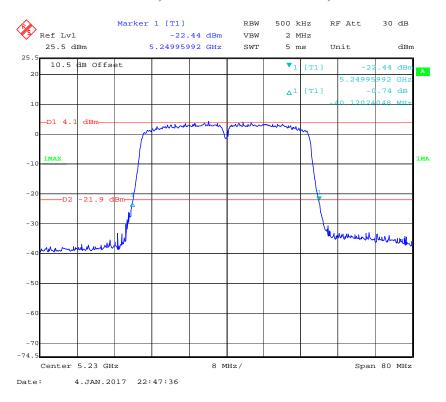


802.11ac40 mode, 26dB Emission Bandwidth, 5190 MHz



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802.11ac40 mode, 26dB Emission Bandwidth, 5230 MHz



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5180 MHz - 5240 MHz:

Ant 2:

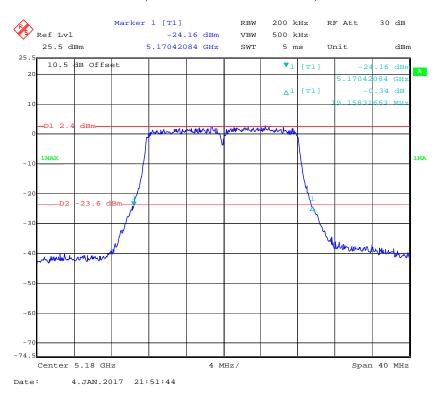
Frequency (MHz)	26dB Emission Bandwidth (MHz)	Remark
802.11a		
5180	19.158	
5200	19.359]
5240	19.479	
802.11n20		No transmitted signal in the 26
5180	20.361	dB bandwidth extends into the U-NII-2A band
5200	20.321	
5240	20.200	
802.11n40		
5190	40.281	
5230	39.960	

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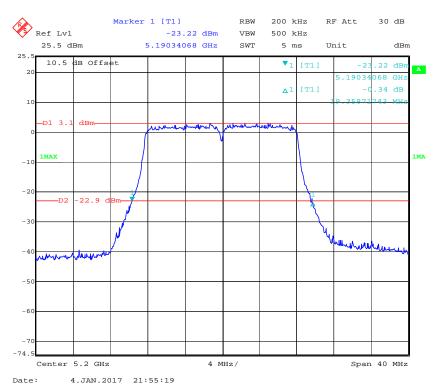
Frequency (MHz)	26dB Emission Bandwidth (MHz)	Remark
802.11ac20		
5180	20.281	
5200	20.240	No transmitted signal in the 26 dB bandwidth extends into the
5240	20.040	
802.11ac40		U-NII-2A band
5190	40.120	
5230	40.120	

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802.11a mode, 26dB Emission Bandwidth, 5180 MHz

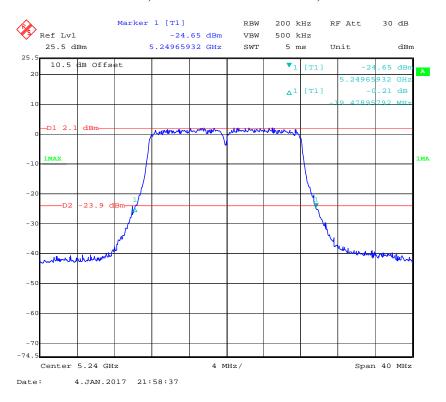


802.11a mode, 26dB Emission Bandwidth, 5200 MHz

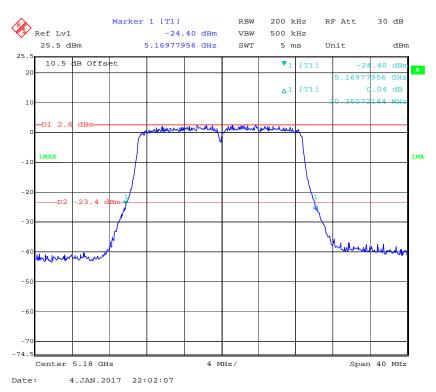


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802.11a mode, 26dB Emission Bandwidth, 5240 MHz

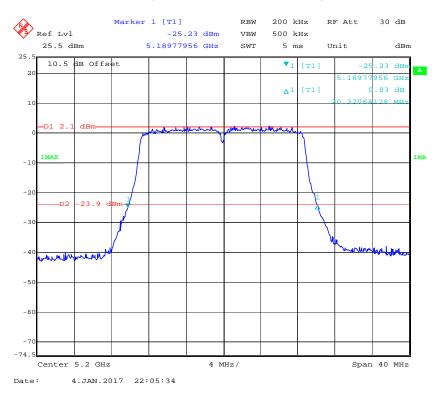


802.11n20 mode, 26dB Emission Bandwidth, 5180 MHz

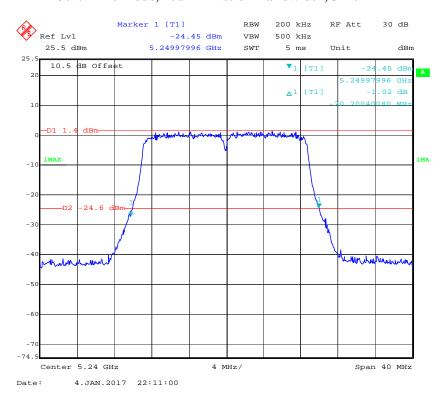


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802.11n20 mode, 26dB Emission Bandwidth, 5200 MHz

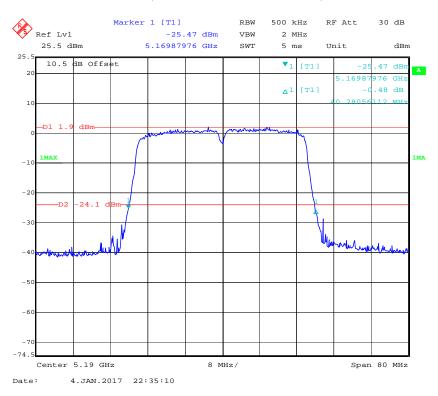


802.11n20 mode, 26dB Emission Bandwidth, 5240 MHz

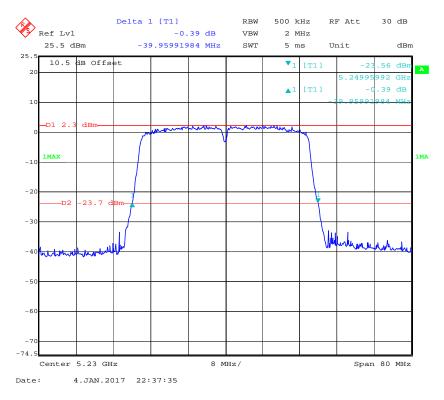


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802.11n40 mode, 26dB Emission Bandwidth, 5190 MHz

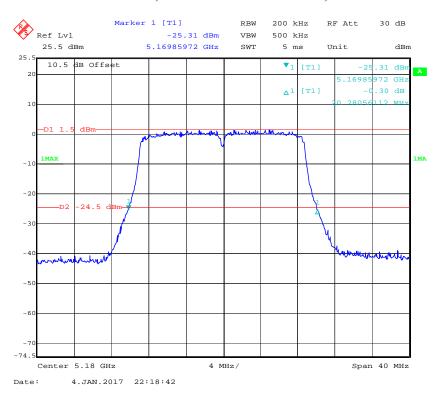


802.11n40 mode, 26dB Emission Bandwidth, 5230 MHz

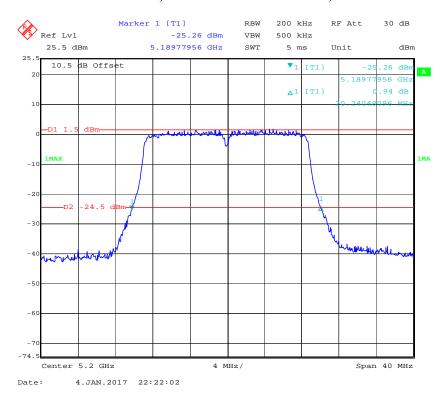


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802.11ac20 mode, 26dB Emission Bandwidth, 5180 MHz

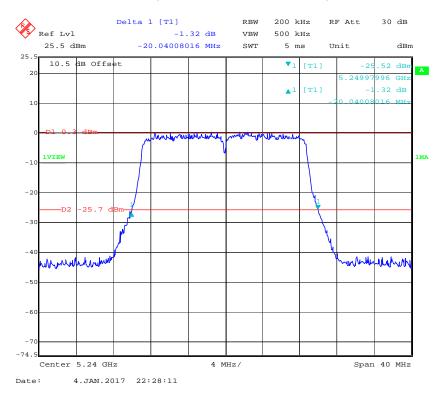


802.11ac20 mode, 26dB Emission Bandwidth, 5200 MHz

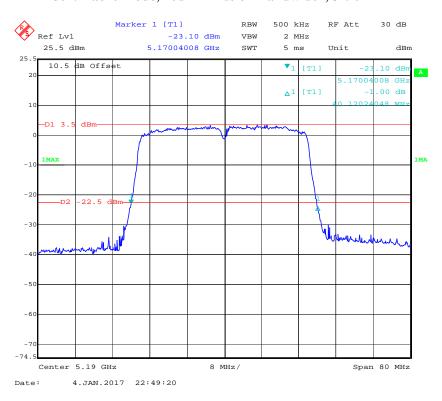


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802.11ac20 mode, 26dB Emission Bandwidth, 5240 MHz

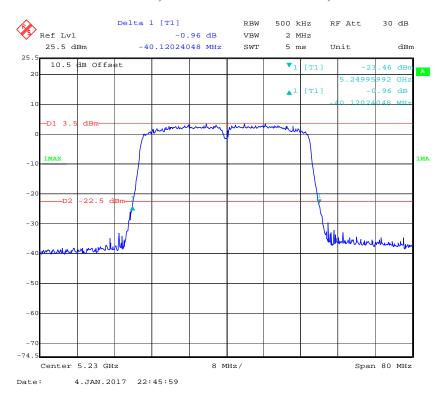


802.11ac40 mode, 26dB Emission Bandwidth, 5190 MHz



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802.11ac40 mode, 26dB Emission Bandwidth, 5230 MHz



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5180 MHz - 5240 MHz:

Ant 3:

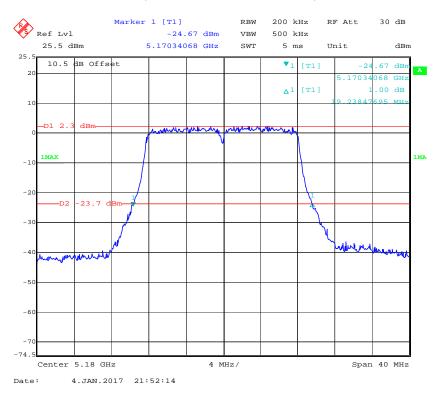
Frequency (MHz)	26dB Emission Bandwidth (MHz)	Remark
802.11	a	
5180	19.238	
5200	19.198]
5240	19.319	
802.11n20		No transmitted signal in the 26
5180	20.441	dB bandwidth extends into the U-NII-2A band
5200	20.321	
5240	20.200	
802.11n40		
5190	39.960	
5230	39.960	

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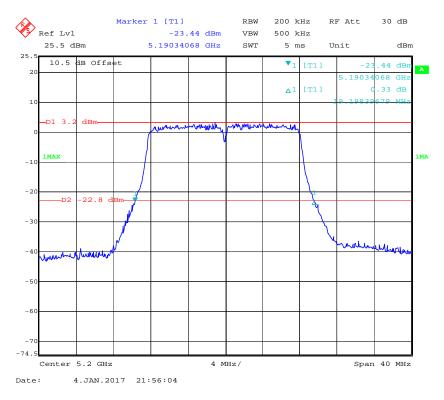
Frequency (MHz)	26dB Emission Bandwidth (MHz)	Remark
802.11ac20		
5180	20.361	
5200	20.240	No transmitted signal in the 26 dB bandwidth extends into the U-
5240	20.120	
802.11ac40		NII-2A band
5190	40.120	
5230	39.960	

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802.11a mode, 26dB Emission Bandwidth, 5180 MHz

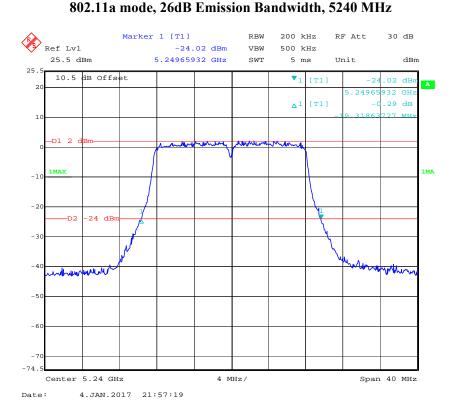


802.11a mode, 26dB Emission Bandwidth, 5200 MHz

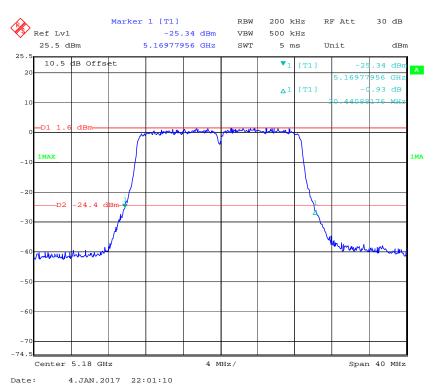


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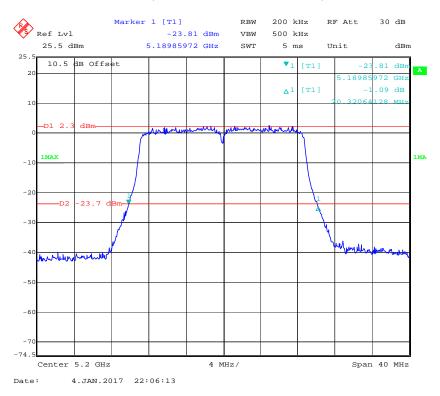


802.11n20 mode, 26dB Emission Bandwidth, 5180 MHz

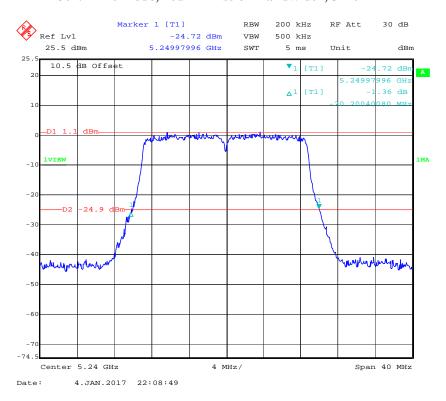


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802.11n20 mode, 26dB Emission Bandwidth, 5200 MHz

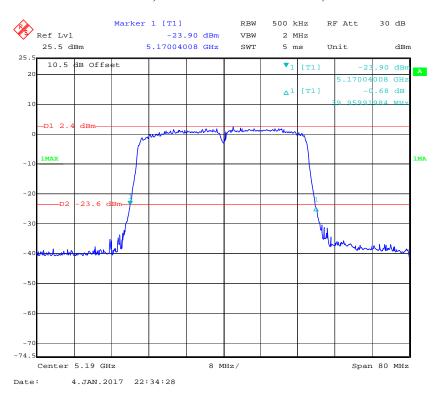


802.11n20 mode, 26dB Emission Bandwidth, 5240 MHz

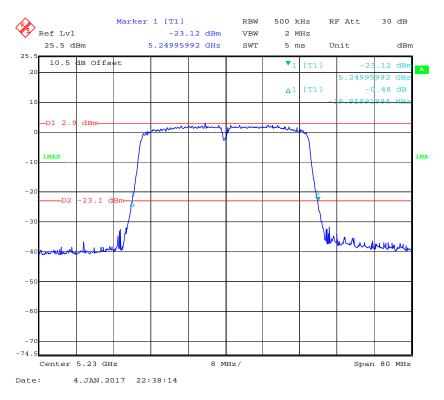


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802.11n40 mode, 26dB Emission Bandwidth, 5190 MHz

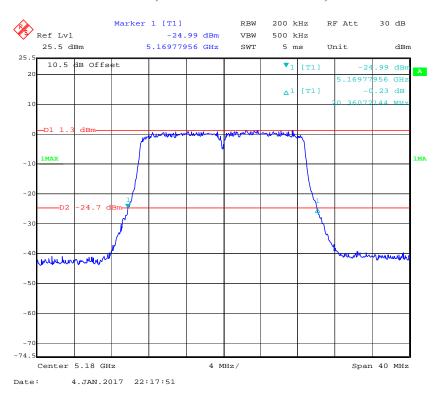


802.11n40 mode, 26dB Emission Bandwidth, 5230 MHz

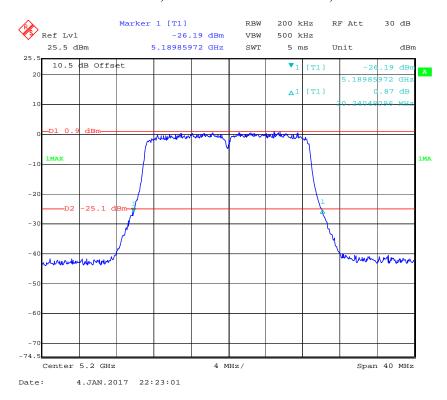


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802.11ac20 mode, 26dB Emission Bandwidth, 5180 MHz

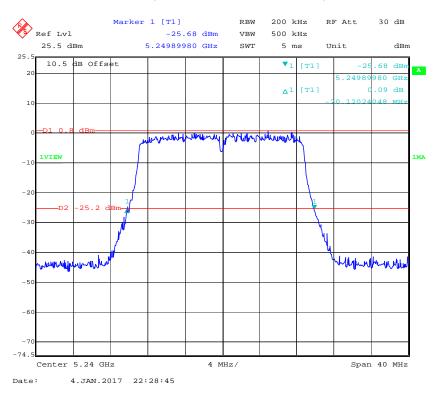


802.11ac20 mode, 26dB Emission Bandwidth, 5200 MHz

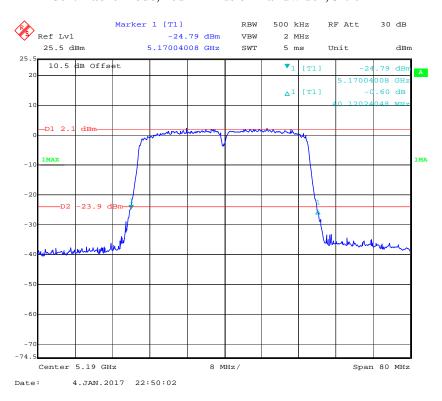


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802.11ac20 mode, 26dB Emission Bandwidth, 5240 MHz

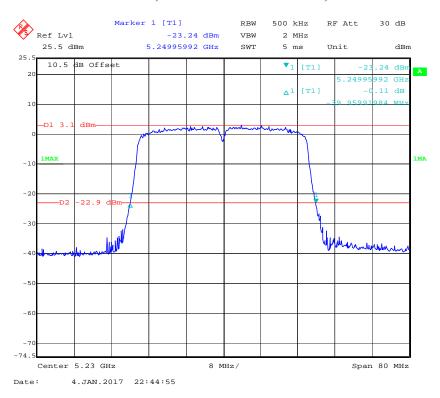


802.11ac40 mode, 26dB Emission Bandwidth, 5190 MHz



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802.11ac40 mode, 26dB Emission Bandwidth, 5230 MHz



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5725 MHz – 5825 MHz:

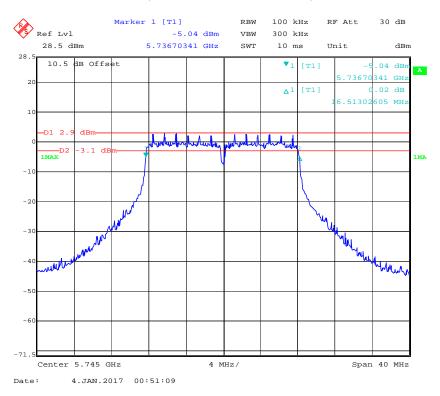
Ant 1:

Frequency (MHz)	6dB Emission Bandwidth (MHz)	Limit (MHz)
	802.11a	
5745	16.513	0.5
5785	16.513	0.5
5825	16.513	0.5
	802.11n20	
5745	17.715	0.5
5785	17.475	0.5
5825	17.715	0.5
	802.11n40	
5755	36.393	0.5
5795	36.313	0.5
	802.11ac20	
5745	17.715	0.5
5785	17.796	0.5
5825	17.796	0.5
	802.11ac40	
5755	36.553	0.5
5795	36.313	0.5

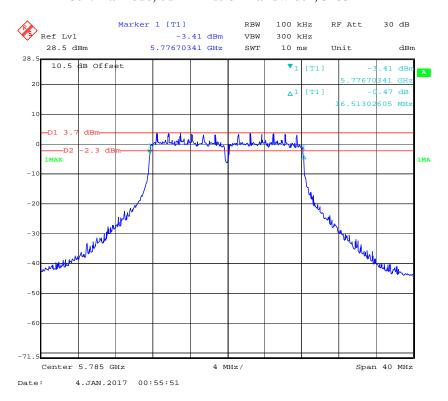
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802.11a mode, 6dB Emission Bandwidth, 5745 MHz



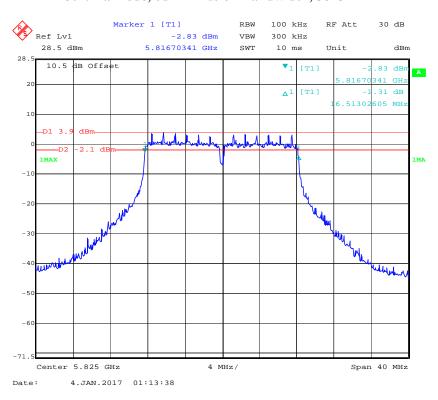
802.11a mode, 6dB Emission Bandwidth, 5785 MHz



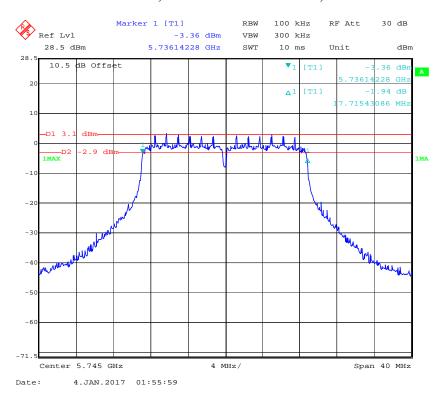
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802.11a mode, 6dB Emission Bandwidth, 5825 MHz

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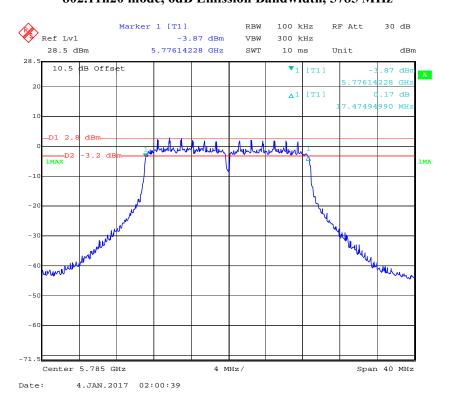
802.11n20 mode, 6dB Emission Bandwidth, 5745 MHz



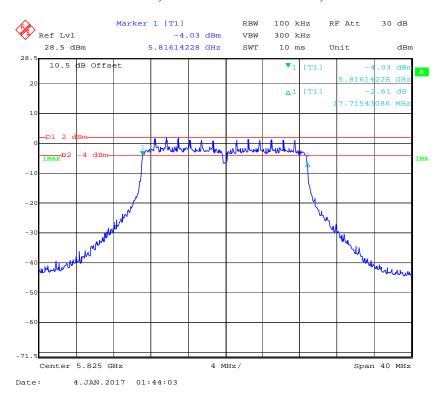
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802.11n20 mode, 6dB Emission Bandwidth, 5785 MHz

Report No.: RSZ161115010-00C



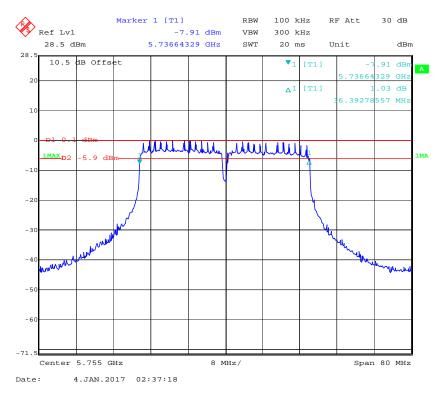
802.11n20 mode, 6dB Emission Bandwidth, 5825 MHz



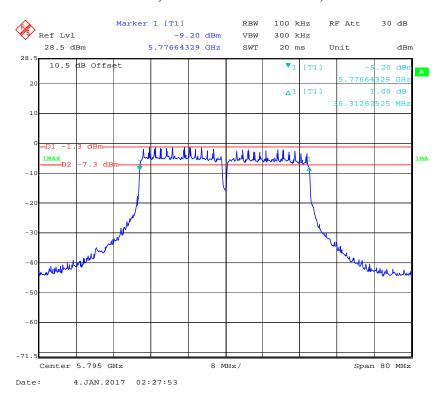
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802.11n40 mode, 6dB Emission Bandwidth, 5755 MHz



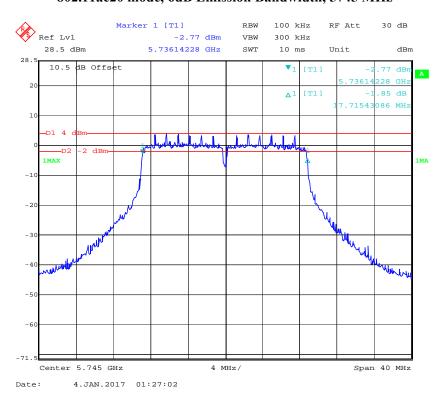
802.11n40 mode, 6dB Emission Bandwidth, 5795 MHz



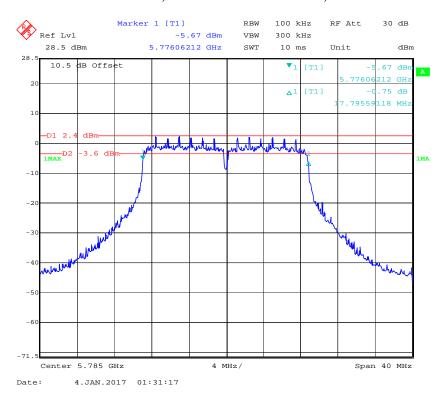
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802.11ac20 mode, 6dB Emission Bandwidth, 5745 MHz

Report No.: RSZ161115010-00C

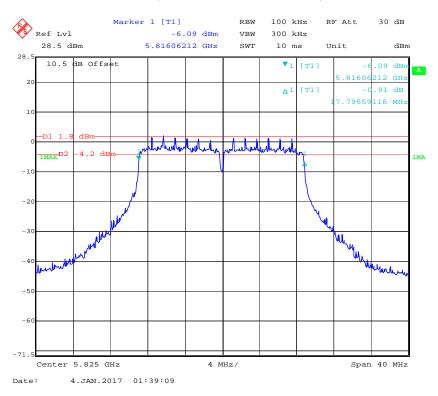


802.11ac20 mode, 6dB Emission Bandwidth, 5785 MHz

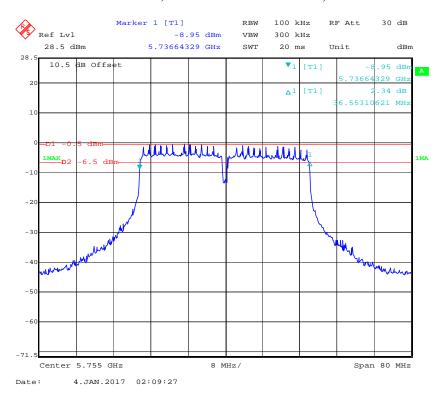


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802.11ac20 mode, 6dB Emission Bandwidth, 5825 MHz

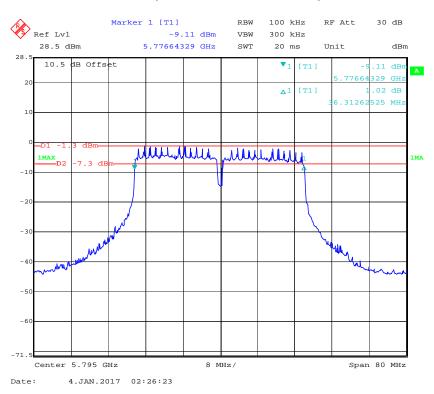


802.11ac40 mode, 6dB Emission Bandwidth, 5755 MHz



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802.11ac40 mode, 6dB Emission Bandwidth, 5795 MHz



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5725 MHz – 5825 MHz:

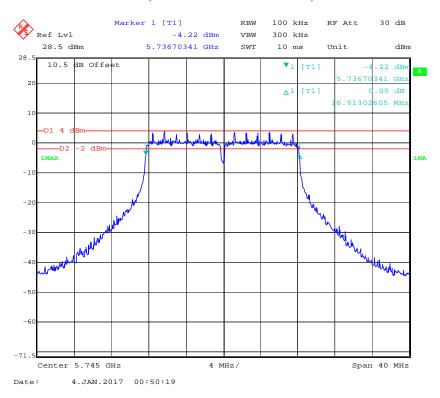
Ant 2:

Frequency (MHz)	6dB Emission Bandwidth (MHz)	Limit (MHz)
	802.11a	
5745	16.513	0.5
5785	16.513	0.5
5825	16.513	0.5
	802.11n20	
5745	17.796	0.5
5785	17.635	0.5
5825	17.555	0.5
	802.11n40	
5755	36.393	0.5
5795	36.313	0.5
	802.11ac20	
5745	17.715	0.5
5785	17.715	0.5
5825	17.715	0.5
	802.11ac40	
5755	36.393	0.5
5795	36.313	0.5

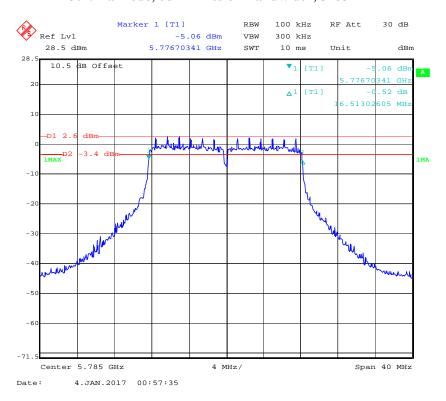
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802.11a mode, 6dB Emission Bandwidth, 5745 MHz



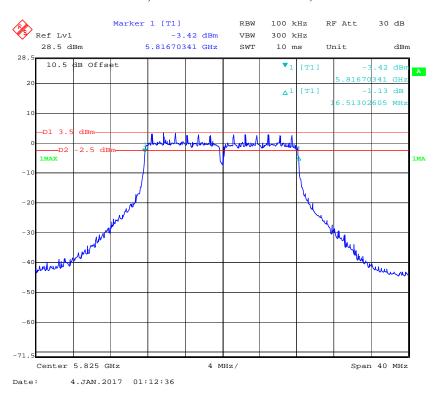
802.11a mode, 6dB Emission Bandwidth, 5785 MHz



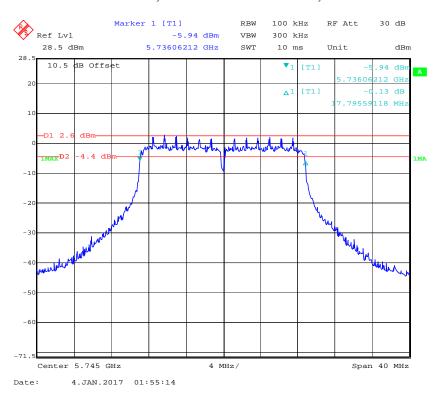
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802.11a mode, 6dB Emission Bandwidth, 5825 MHz

Report No.: RSZ161115010-00C

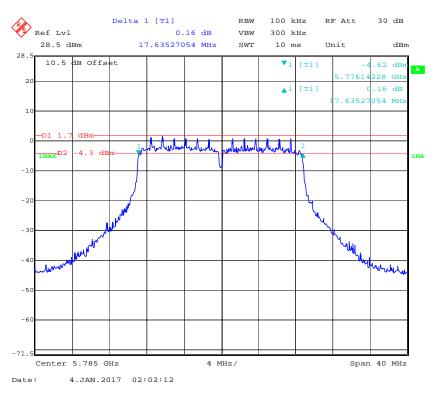


802.11n20 mode, 6dB Emission Bandwidth, 5745 MHz

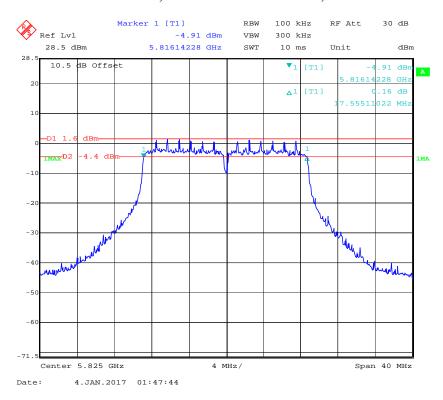


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802.11n20 mode, 6dB Emission Bandwidth, 5785 MHz



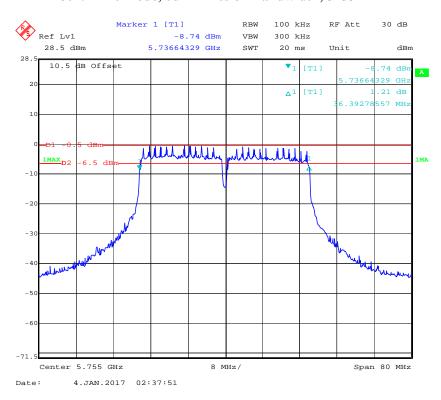
802.11n20 mode, 6dB Emission Bandwidth, 5825 MHz



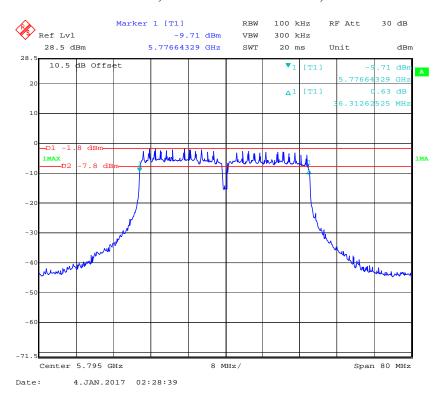
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802.11n40 mode, 6dB Emission Bandwidth, 5755 MHz

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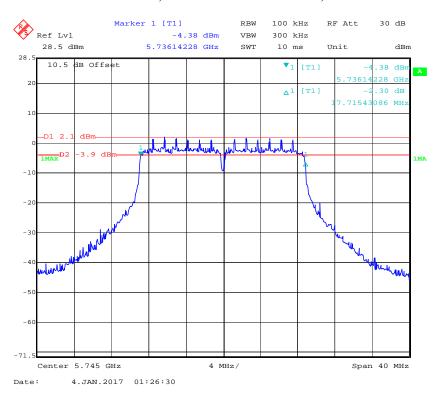


802.11n40 mode, 6dB Emission Bandwidth, 5795 MHz

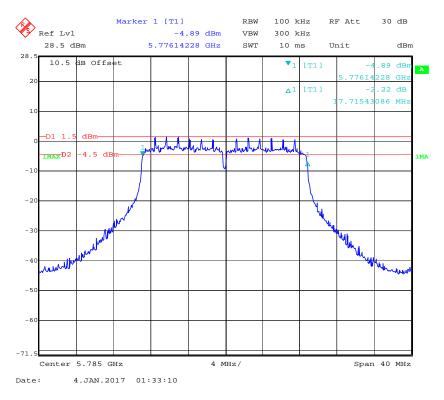


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802.11ac20 mode, 6dB Emission Bandwidth, 5745 MHz

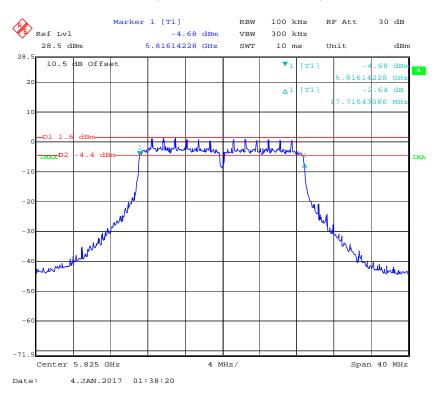


802.11ac20 mode, 6dB Emission Bandwidth, 5785 MHz

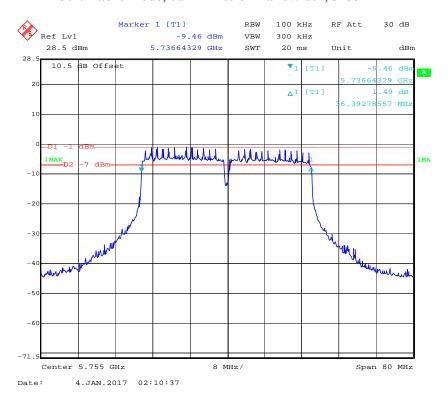


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802.11ac20 mode, 6dB Emission Bandwidth, 5825 MHz

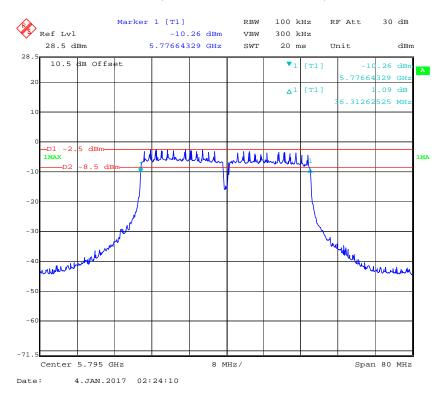


802.11ac40 mode, 6dB Emission Bandwidth, 5755 MHz



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802.11ac40 mode, 6dB Emission Bandwidth, 5795 MHz



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5725 MHz – 5825 MHz:

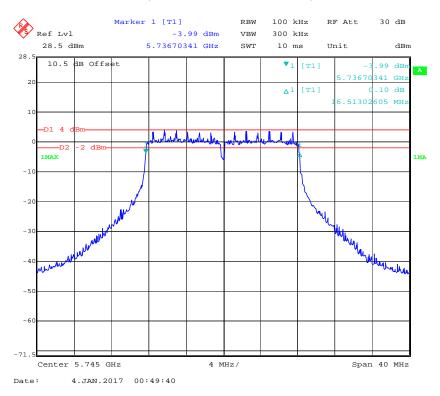
Ant 3:

Frequency (MHz)	6dB Emission Bandwidth (MHz)	Limit (MHz)			
	802.11a				
5745	16.513	0.5			
5785	16.513	0.5			
5825	16.513	0.5			
	802.11n20				
5745	17.715	0.5			
5785	17.715	0.5			
5825	17.635	0.5			
	802.11n40				
5755	36.393	0.5			
5795	36.313	0.5			
	802.11ac20				
5745	17.715	0.5			
5785	17.635	0.5			
5825	17.715	0.5			
802.11ac40					
5755	36.393	0.5			
5795	36.313	0.5			

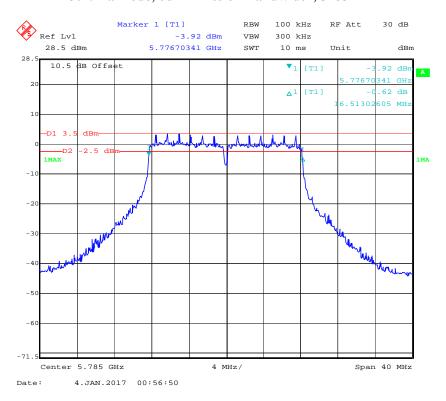
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802.11a mode, 6dB Emission Bandwidth, 5745 MHz



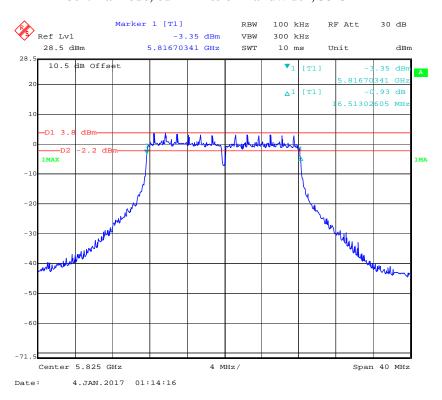
802.11a mode, 6dB Emission Bandwidth, 5785 MHz



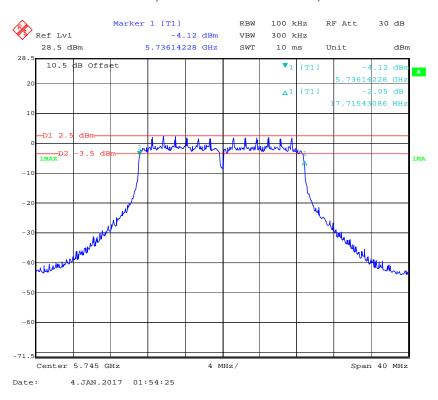
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802.11a mode, 6dB Emission Bandwidth, 5825 MHz

Report No.: RSZ161115010-00C

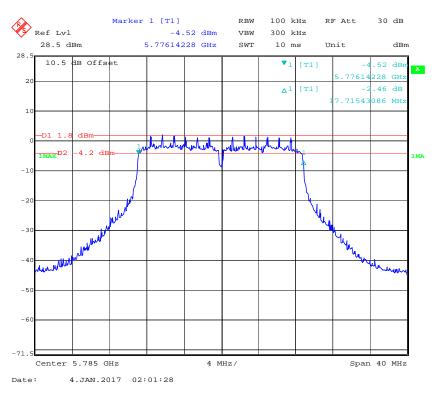


802.11n20 mode, 6dB Emission Bandwidth, 5745 MHz

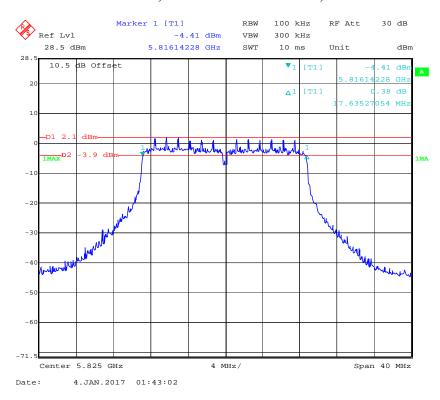


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802.11n20 mode, 6dB Emission Bandwidth, 5785 MHz



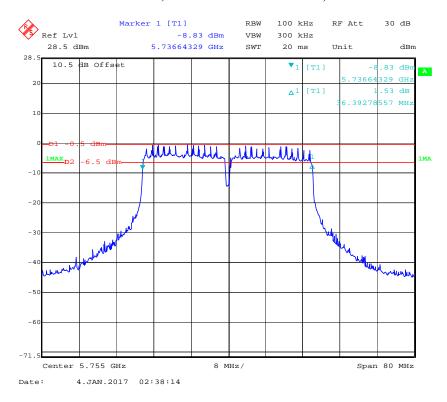
802.11n20 mode, 6dB Emission Bandwidth, 5825 MHz



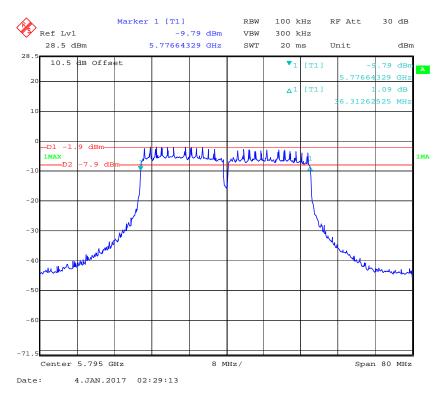
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802.11n40 mode, 6dB Emission Bandwidth, 5755 MHz

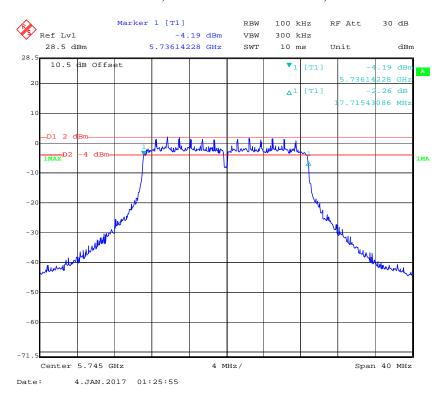


802.11n40 mode, 6dB Emission Bandwidth, 5795 MHz

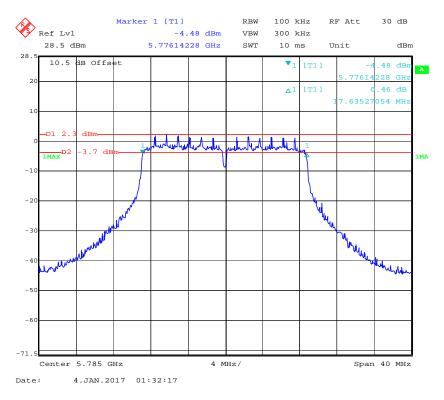


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802.11ac20 mode, 6dB Emission Bandwidth, 5745 MHz

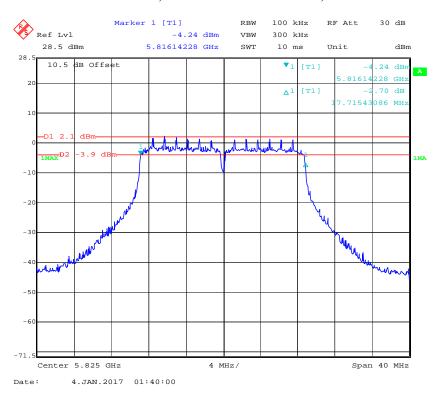


802.11ac20 mode, 6dB Emission Bandwidth, 5785 MHz

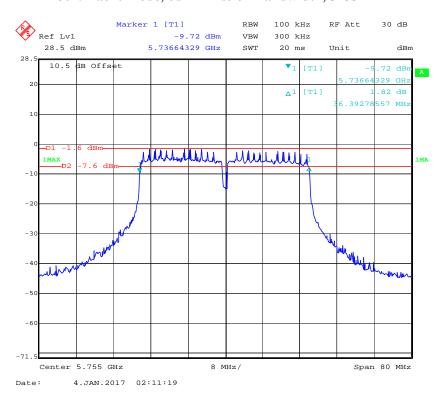


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802.11ac20 mode, 6dB Emission Bandwidth, 5825 MHz

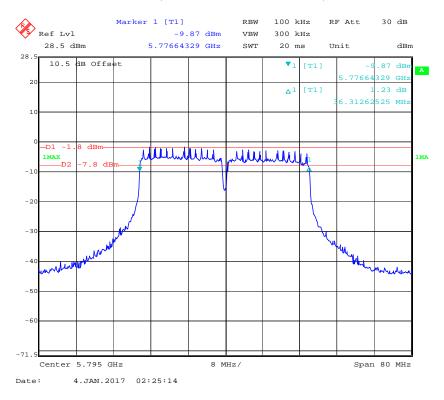


802.11ac40 mode, 6dB Emission Bandwidth, 5755 MHz



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802.11ac40 mode, 6dB Emission Bandwidth, 5795 MHz



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FCC §15.407(a) (1) (3)— CONDUCTED TRANSMITTER OUTPUT POWER

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Applicable Standard

For an indoor access point operating in the band 5.15-5.25 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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. 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.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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.

Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	23 ℃
Relative Humidity:	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Chris Wang on 2016-12-19..

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables.

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Note: This Device Emploies Cyclic Delay Diversity. When determining reductions in conducted power limits, array gain is calculated as follows: As to this device, $N_{ANT} \leqslant 4$, Array Gain = 0 dB. Total directional gain (dBi) = gain of individual transmit antennas (dBi) + 0 (dB) =1.7dBi.

5150 MHz - 5250 MHz:

Frequency (MHz)	Antenna Port	Output Power (dBm)	Sum Output Power (dBm) Chain1+Chain2+chain 3	Limit (dBm)	
	802.11a				
	1	14.97			
5180	2	12.70	18.20		
	3	12.06			
	1	13.62			
5200	2	12.11	17.37	30	
	3	11.84			
	1	11.44			
5240	2	11.88	16.39		
	3	11.51			
		802.11n20			
	1	14.96			
5180	2	12.19	17.97		
	3	11.68			
	1	13.66			
5200	2	11.98	17.24	30	
	3	11.46			
	1	11.24			
5240	2	11.73	16.21		
	3	11.33			
802.11n40					
	1	13.97			
`5190	2	11.79	17.34		
	3	11.49		30	
	1	11.58	16.10	30	
5230	2	11.28			
	3	11.10			

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Frequency (MHz)	Antenna Port	Output Power (dBm)	Sum Output Power (dBm) Chain1+Chain2+chain 3	Limit (dBm)
		802.	11ac20	
	1	15.00		
5180	2	12.69	18.10	
	3	11.59		
	1	13.53		
5200	2	12.18	17.24	30
	3	11.44		
	1	11.26		
5240	2	11.88	16.22	
	3	11.17]	l
		802.	11ac40	
	1	13.88		
5190	2	12.15	17.34	
	3	11.26		30
	1	11.53		30
5230	2	11.52	16.17	

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5725 MHz – 5825 MHz:

Frequency (MHz)	Antenna Port	Output Power (dBm)	Sum Output Power (dBm) Chain 1 Chain 2 chain 2	Limit (dBm)
		802.11a	Chain1+Chain2+chain 3	` ′
	1	14.28		
5745	2	15.73	20.00	
3/43	3	15.55	20.00	
5705	1	16.16	20.20	20
5785	2	14.83	20.28	30
	3	15.44		
	1	15.32	_	
5825	2	14.73	20.13	
	3	15.93		
		802.11n2	0	
	1	14.94	18.78	30
5745	2	13.38		
	3	13.54		
	1	14.11		
5785	2	12.99	18.31	
	3	13.43		
	1	13.18		
5825	2	12.35	17.86	
	3	13.65		
802.11n40				
	1	13.09		
5755	2	12.56	17.41	
	3	12.23		6.5
	1	13.09		30
5795	2	11.89	17.24	
	3	12.35	=	

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Frequency (MHz)	Antenna Port	Output Power (dBm)	Sum Output Power (dBm) Chain1+Chain2+chain 3	Limit (dBm)
		802.11ac20)	
	1	15.06		
5745	2	13.48	18.84	
	3	13.46		
	1	14.27		
5785	2	12.94	18.41	30
	3	13.59		
	1	13.27		
5825	2	12.26	17.85	
	3	13.59		
		802.11ac40)	
	1	13.62		
5755	2	12.61	17.59	
	3	12.10		30
	1	12.97		30
5795	2	11.74	17.13	
	3	12.28		

Note: According to the duty cycle hereinabove, the factor of 802.11n40, 802.11ac40 were 0.22, had been added to the output power

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FCC §15.407(a) (1) (5) - POWER SPECTRAL DENSITY

Applicable Standard

(ii) For an indoor access point operating in the band 5.15-5.25 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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. 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.

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For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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.

Test Procedure

For devices operating in the bands $5.15-5.25~\mathrm{GHz}$, $5.25-5.35~\mathrm{GHz}$, and $5.47-5.725~\mathrm{GHz}$, 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 $5.725-5.85~\mathrm{GHz}$, the rules specify a measurement bandwidth of $500~\mathrm{kHz}$. Many spectrum analyzers do not have $500~\mathrm{kHz}$ RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or $500~\mathrm{kHz}$, "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 $500~\mathrm{kHz}$). If measurements are performed using a reduced resolution bandwidth ($<1~\mathrm{MHz}$, or $<500~\mathrm{kHz}$) and integrated over 1 MHz, or $<500~\mathrm{kHz}$ bandwidth, the following adjustments to the procedures apply:

- a) Set $\overrightarrow{RBW} \ge 1/T$, where T is defined in section II.B.l.a).
- b) Set VBW \geq 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 (1MHz/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.

Test Data

Environmental Conditions

Temperature:	23~25 ℃	
Relative Humidity:	51~55 %	
ATM Pressure:	100.0~103.0 kPa	

The testing was performed by Chris Wang from 2016-12-19 to 2017-01-04

EUT operation mode: Transmitting

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Test Result: Pass

Please refer to the following tables and plots.

Note: This Device Emploies Cyclic Delay Diversity. When determining reductions in power spectral density limits, array gain is calculated as follows:

Array gain = $10 \log (N_{ANT})$, where N_{ANT} is the number of transmit antennas. Total directional gain (dBi) = gain of individual transmit antennas (dBi) +4.8 (dB) =6.5dBi, which is 0.5dB higher than 6dBi, so a 0.5dB reduction should be applied for power spectral density limits.

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5150 MHz - 5250 MHz:

Frequency (MHz)	Antenna Port	Power Spectral Density (dBm/MHz)	Sum Power spectral density (dBm/MHz) Chain1+Chain2+chain 3	Limit (dBm/MHz)
		802.1	1a	
	1	4.61		
5180	2	2.49	7.76	
	3	1.15		
	1	3.22		
5200	2	1.75	7.04	16.5
	3	1.66		
	1	0.99		
5240	2	1.62	5.92	
	3	0.80		
		802.11	n20	
	1	4.22		
5180	2	1.94	7.33	
	3	0.79		
	1	3.01		
5200	2	1.17	6.45	16.5
	3	0.44		
	1	0.50		
5240	2	1.10	5.49	
	3	0.54		
802.11n40				
	1	-0.12		
5190	2	-1.48	3.44	
	3	-2.80		16.5
	1	-2.24		10.5
5230	2	-2.01	2.41	
	3	-2.88		

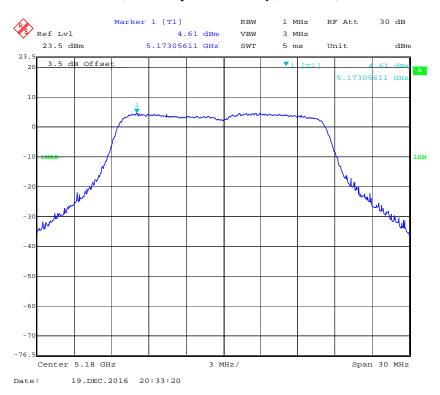
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-2.95

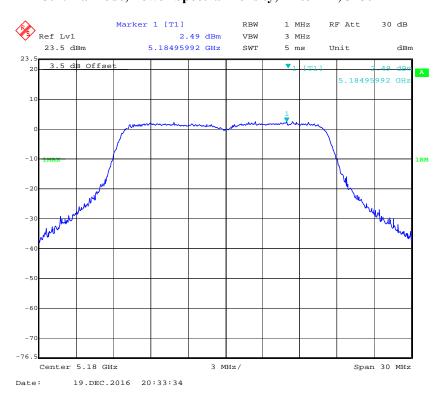
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802.11a mode, Power Spectral Density, Antenn 1, 5180 MHz

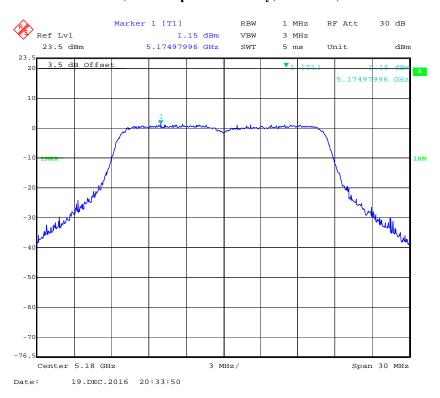


802.11a mode, Power Spectral Density, Antenn 2, 5180 MHz

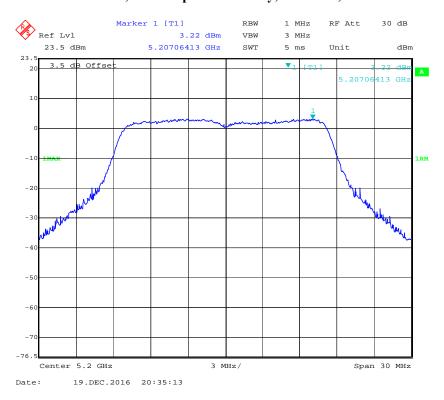


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802.11a mode, Power Spectral Density, Antenn 3, 5180 MHz

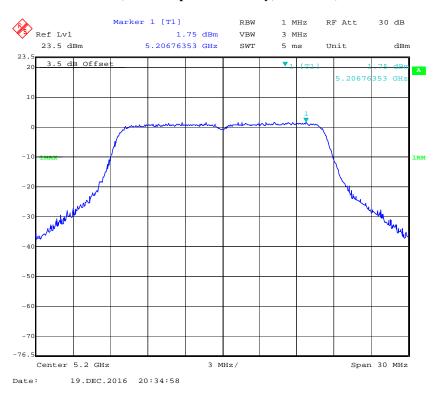


802.11a mode, Power Spectral Density, Antenn 1, 5200 MHz

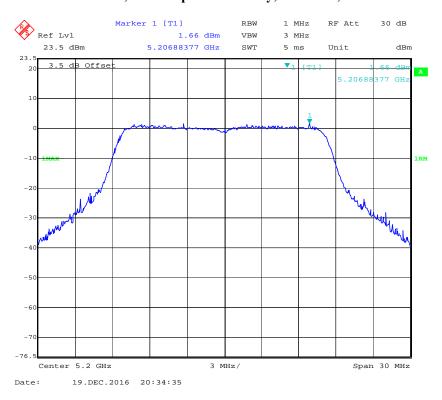


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802.11a mode, Power Spectral Density, Antenn 2, 5200 MHz

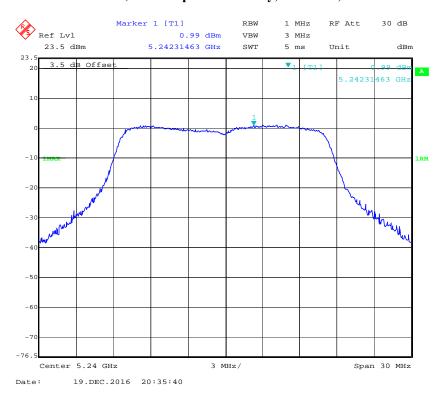


802.11a mode, Power Spectral Density, Antenn 3, 5200 MHz

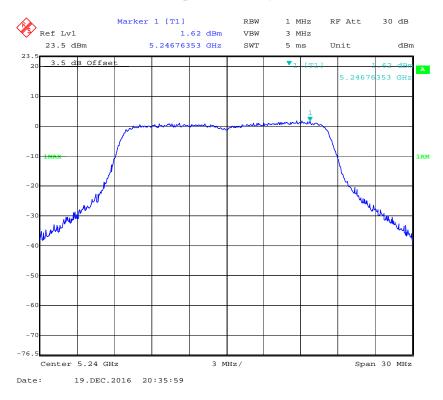


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802.11a mode, Power Spectral Density, Antenn 1, 5240 MHz

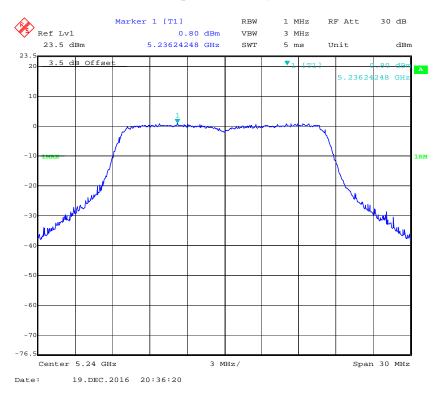


802.11a mode, Power Spectral Density, Antenn 2, 5240 MHz

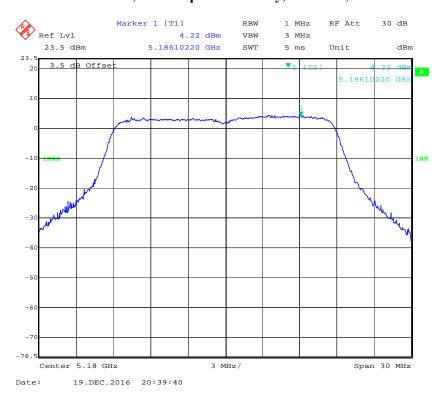


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802.11a mode, Power Spectral Density, Antenn 3, 5240 MHz

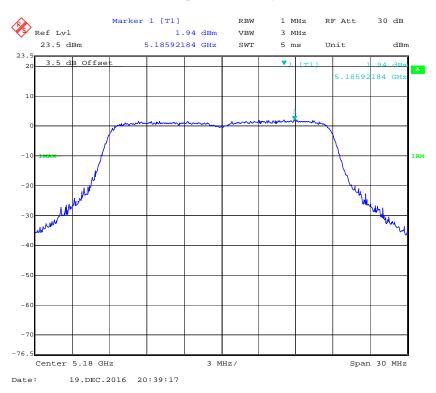


802.11n20 mode, Power Spectral Density, Antenn 1, 5180 MHz

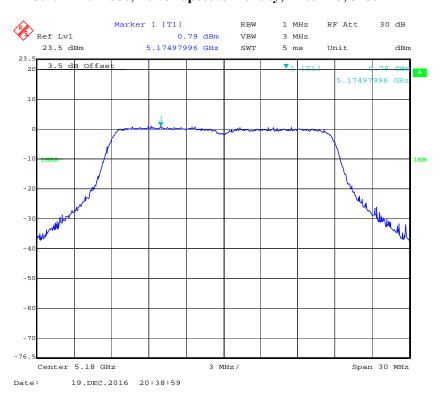


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802.11n20 mode, Power Spectral Density, Antenn 2, 5180 MHz

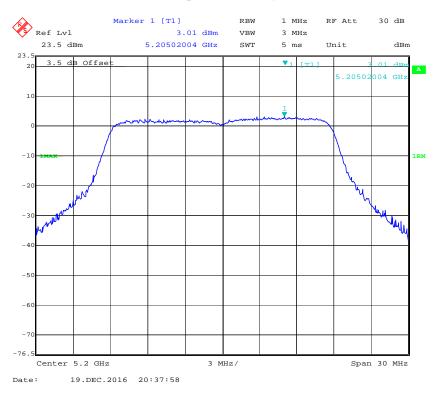


802.11n20 mode, Power Spectral Density, Antenn 3, 5180 MHz

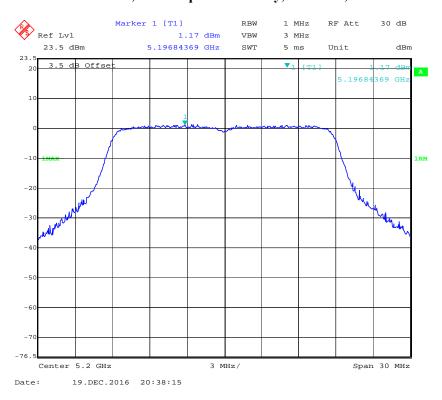


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802.11n20 mode, Power Spectral Density, Antenn 1, 5200 MHz

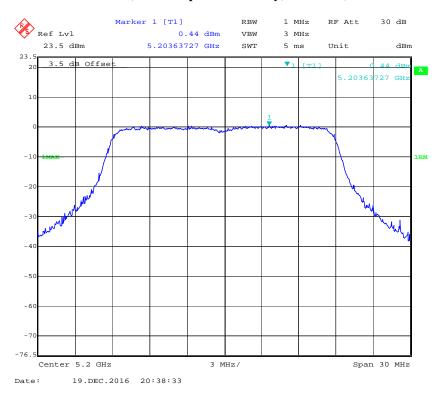


802.11n20 mode, Power Spectral Density, Antenn 2, 5200 MHz

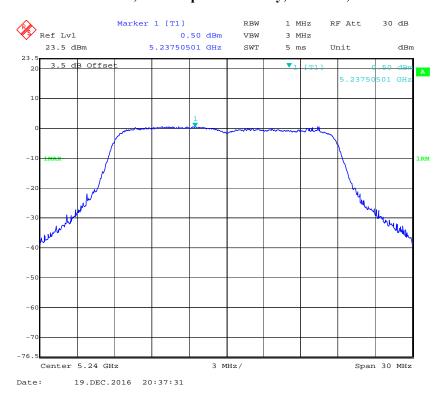


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802.11n20 mode, Power Spectral Density, Antenn 3, 5200 MHz

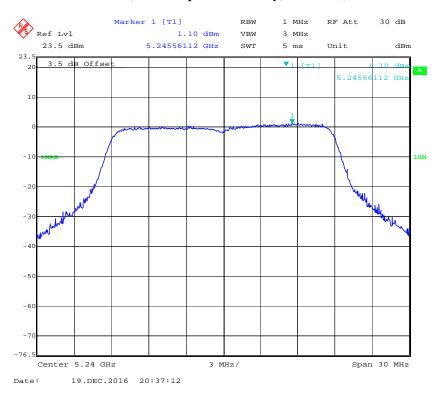


802.11n20 mode, Power Spectral Density, Antenn 1, 5240 MHz

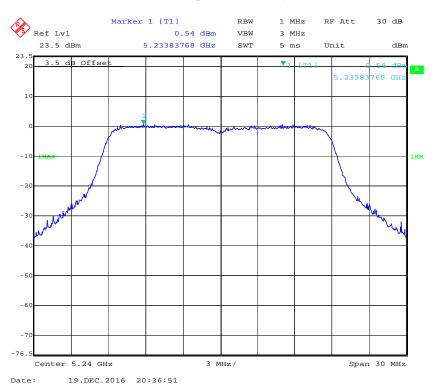


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802.11n20 mode, Power Spectral Density, Antenn 2, 5240 MHz



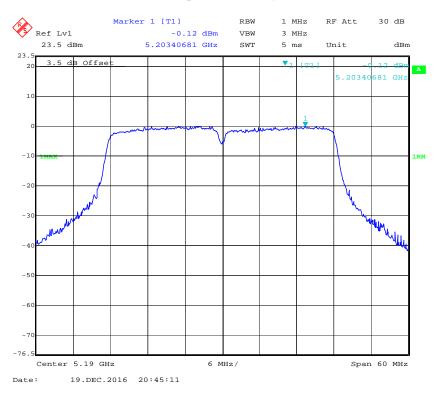
802.11n20 mode, RF Power Spectral Density, Antenn 3, 5240 MHz



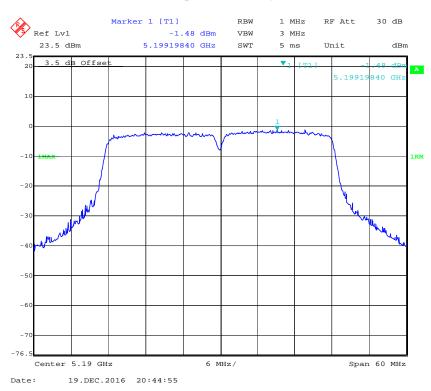
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802.11n40 mode, Power Spectral Density, Antenn 1, 5190 MHz

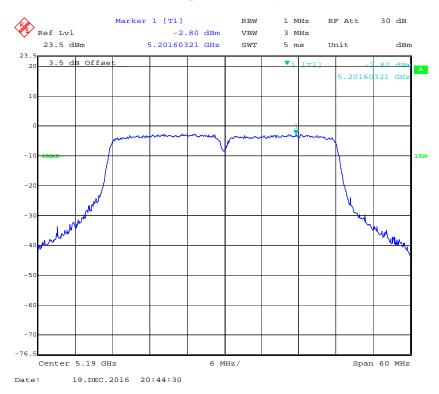


802.11n40 mode, Power Spectral Density, Antenn 2, 5190 MHz

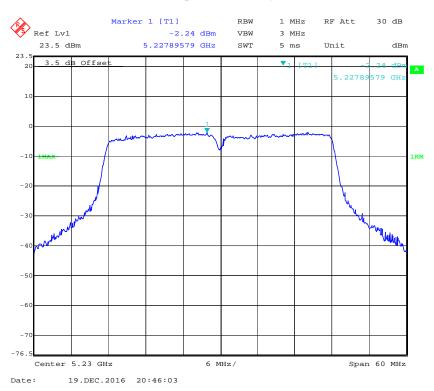


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802.11n40 mode, Power Spectral Density, Antenn 3, 5190 MHz

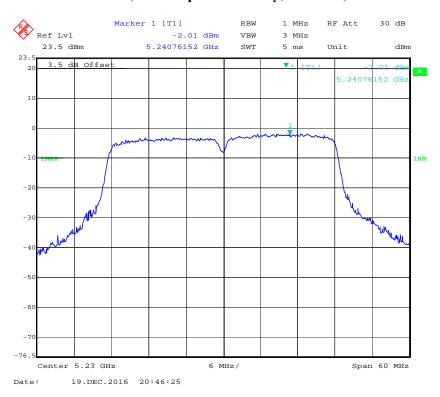


802.11n40 mode, Power Spectral Density, Antenn 1, 5230 MHz

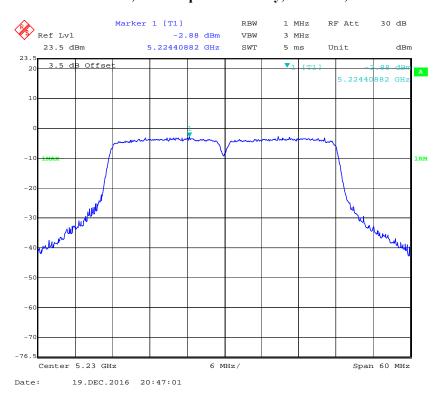


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802.11n40 mode, Power Spectral Density, Antenn 2, 5230 MHz

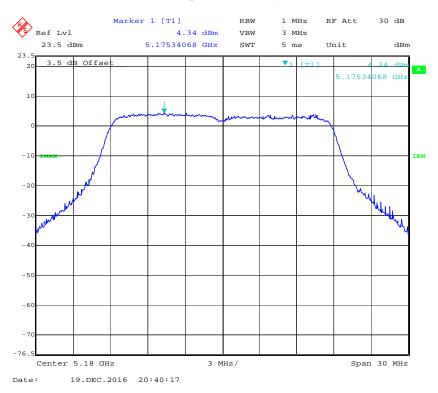


802.11n40 mode, Power Spectral Density, Antenn 3, 5230 MHz

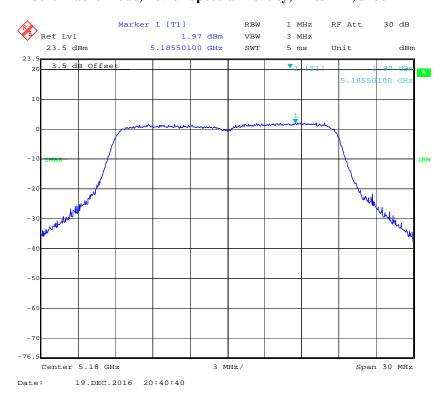


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802.11ac20 mode, Power Spectral Density, Antenn 1, 5180 MHz

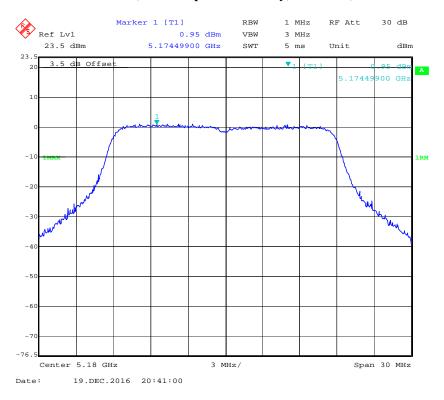


802. 11ac20 mode, Power Spectral Density, Antenn 2, 5180 MHz

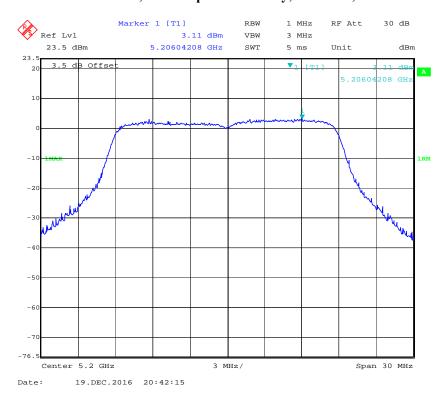


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802. 11ac20 mode, Power Spectral Density, Antenn 3, 5180 MHz

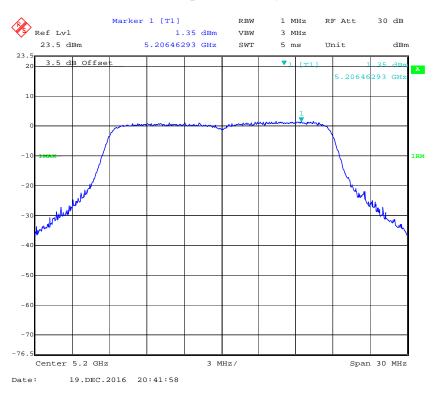


802. 11ac20 mode, Power Spectral Density, Antenn 1, 5200 MHz

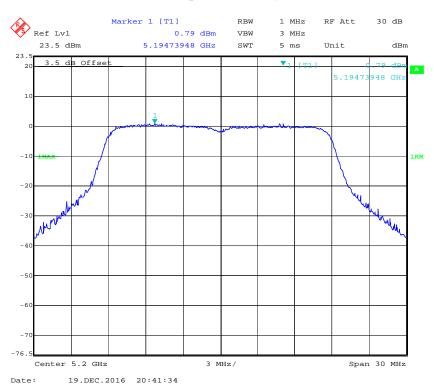


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802. 11ac20 mode, Power Spectral Density, Antenn 2, 5200 MHz

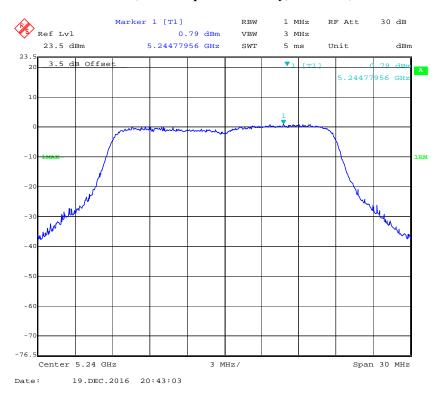


802. 11ac20 mode, Power Spectral Density, Antenn 3, 5200 MHz

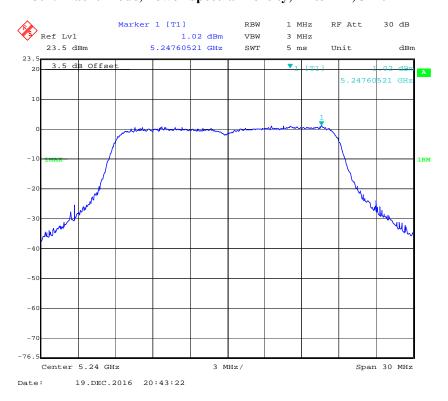


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802. 11ac20 mode, Power Spectral Density, Antenn 1, 5240 MHz

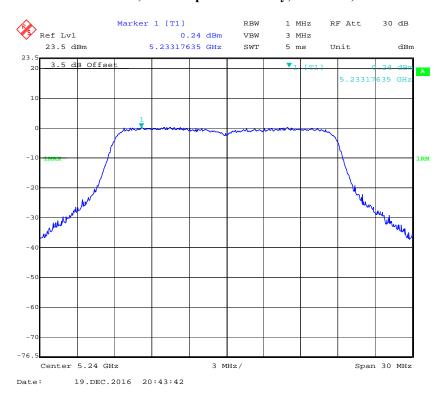


802. 11ac20 mode, Power Spectral Density, Antenn 2, 5240 MHz

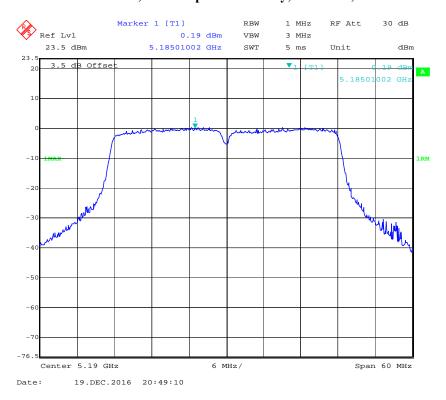


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802. 11ac20 mode, Power Spectral Density, Antenn 3, 5240 MHz

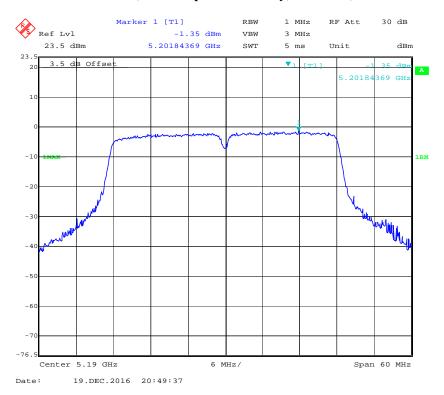


802. 11ac40 mode, Power Spectral Density, Antenn 1, 5190 MHz

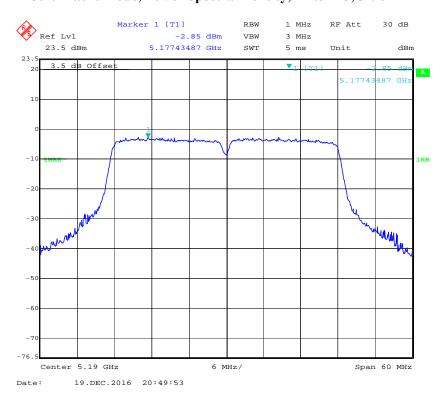


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802. 11ac40 mode, Power Spectral Density, Antenn 2, 5190 MHz

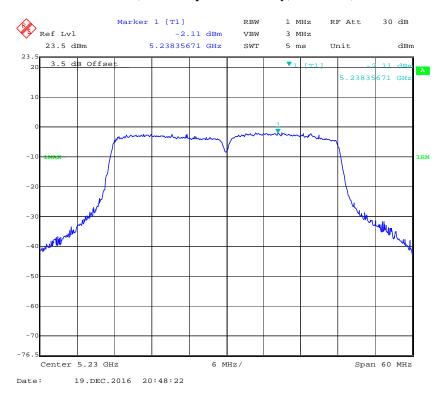


802. 11ac40 mode, Power Spectral Density, Antenn 3, 5190 MHz

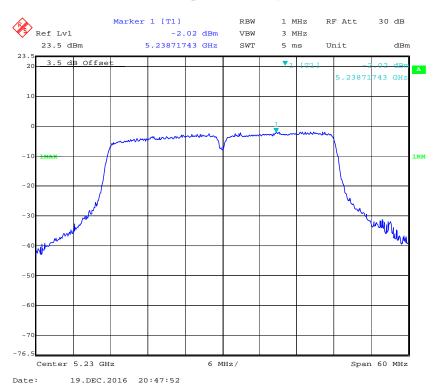


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802. 11ac40 mode, Power Spectral Density, Antenn 1, 5230 MHz

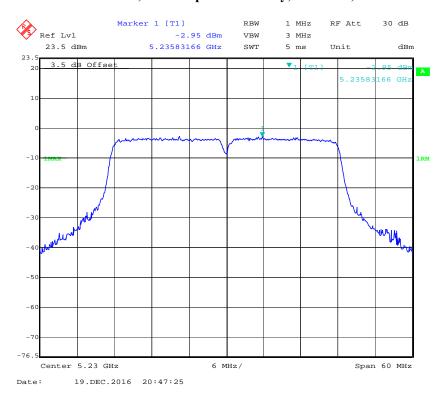


802. 11ac40 mode, Power Spectral Density, Antenn 2, 5230 MHz



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802. 11ac40 mode, Power Spectral Density, Antenn 3, 5230 MHz



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5725 MHz – 5825 MHz:

Frequency (MHz)	Antenna Port	Power Spectral Density (dBm/500kHz)	Sum Power spectral density (dBm/500kHz) Chain1+Chain2+chain 3	Limit (dBm/500kHz)		
802.11a						
5745	1	2.53		29.5		
	2	3.04	7.85			
	3	3.59				
5785	1	3.53	7.66			
	2	1.81				
	3	3.14				
5825	1	2.95	7.88			
	2	2.99				
	3	3.37				
802.11n20						
	1	2.22	6.72	29.5		
5745	2	1.76				
	3	1.85				
5785	1	1.82	6.25			
	2	1.14				
	3	1.46				
5825	1	1.05	5.90			
	2	0.44				
	3	1.80				
802.11n40						
5755	1	-0.02		29.5		
	2	-0.67	4.28			
	3	-0.82				
5795	1	-1.64	2.70			
	2	-2.42				
	3	-2.20				

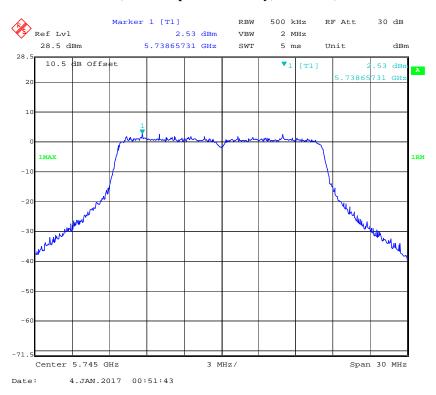
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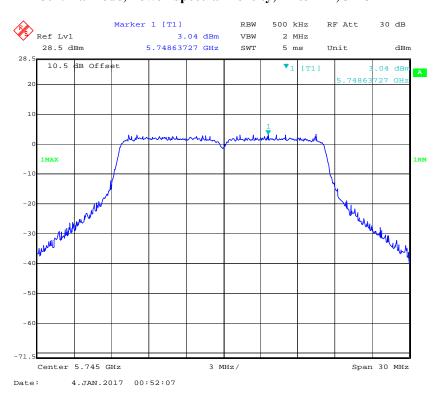
Frequency (MHz)	Antenna Port	Power Spectral Density (dBm/500kHz)	Sum Power spectral density (dBm/500kHz) Chain1+Chain2+chain 3	Limit (dBm/500kHz)		
802.11ac20						
5745	1	3.57	7.06	29.5		
	2	1.75				
	3	1.19				
5785	1	2.28	6.37			
	2	0.61				
	3	1.74				
5825	1	0.45	5.54			
	2	0.73				
	3	1.10				
802.11ac40						
5755	1	-1.09	3.45	- 29.5		
	2	-1.68				
	3	-1.22				
5795	1	-2.27	2.42			
	2	-2.06				
	3	-2.74				

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802.11a mode, Power Spectral Density, Antenn 1, 5745 MHz

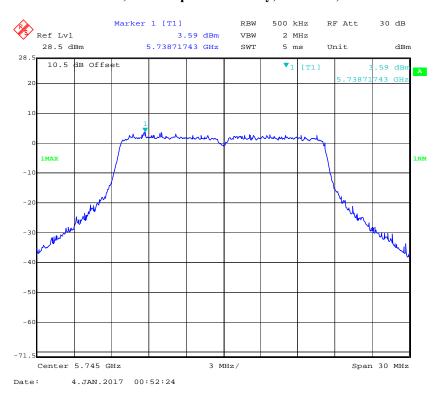


802.11a mode, Power Spectral Density, Antenn 2, 5745 MHz

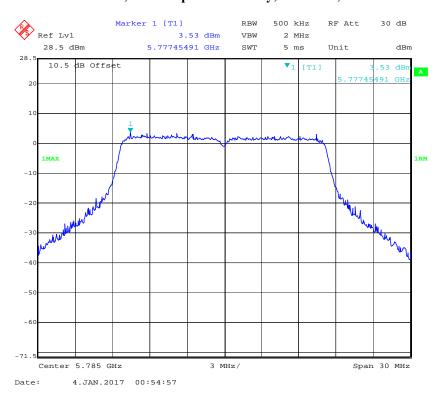


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802.11a mode, Power Spectral Density, Antenn 3, 5745 MHz

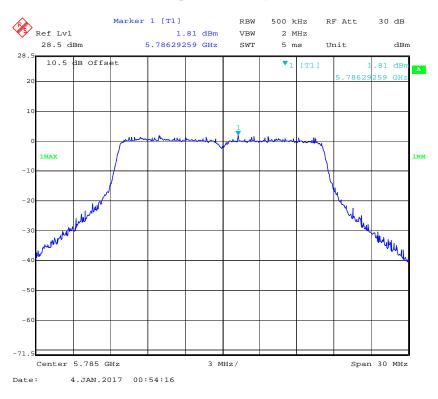


802.11a mode, Power Spectral Density, Antenn 1, 5785 MHz

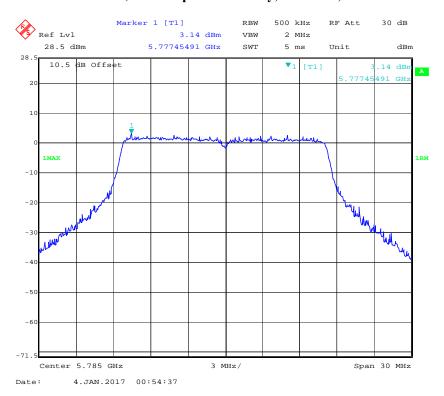


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802.11a mode, Power Spectral Density, Antenn 2, 5785 MHz

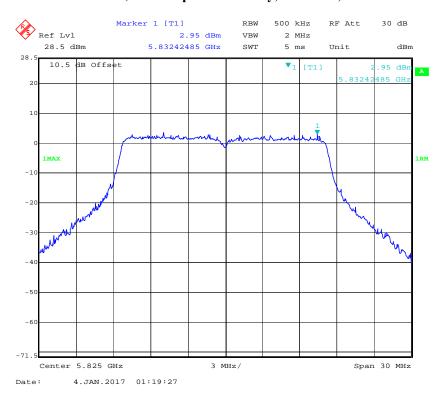


802.11a mode, Power Spectral Density, Antenn 3, 5785 MHz

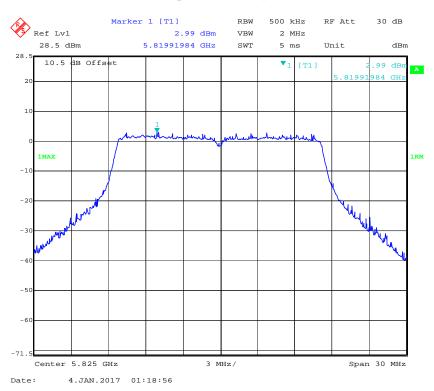


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802.11a mode, Power Spectral Density, Antenn 1, 5825 MHz

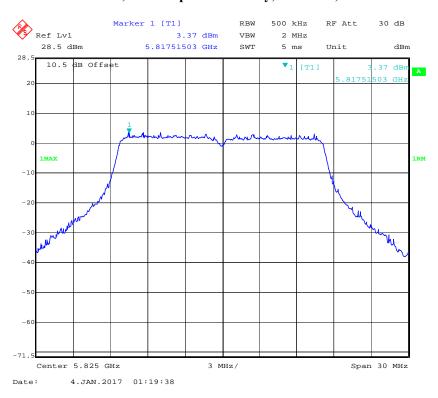


802.11a mode, Power Spectral Density, Antenn 2, 5825 MHz

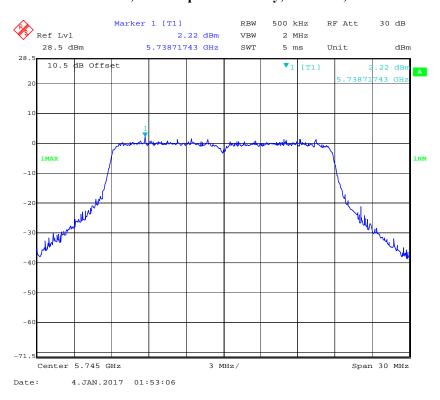


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802.11a mode, Power Spectral Density, Antenn 3, 5825 MHz

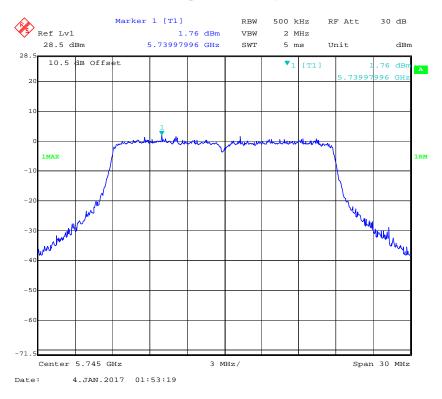


802.11n20 mode, Power Spectral Density, Antenn 1, 5745 MHz

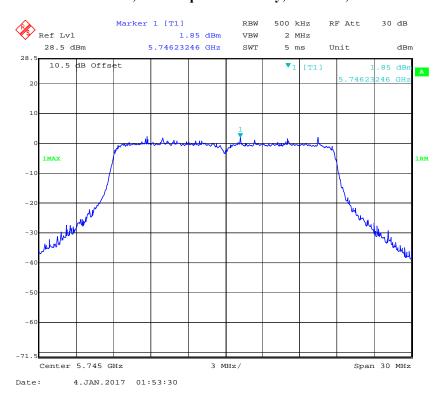


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802.11n20 mode, Power Spectral Density, Antenn 2, 5745 MHz



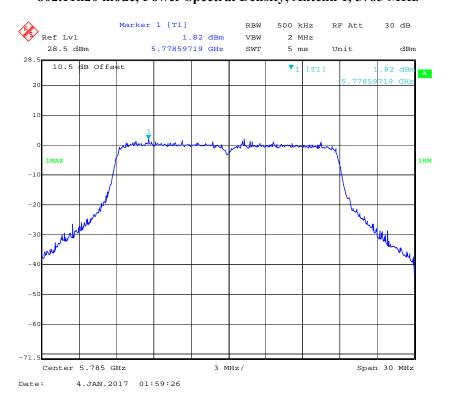
802.11n20 mode, Power Spectral Density, Antenn 3, 5745 MHz



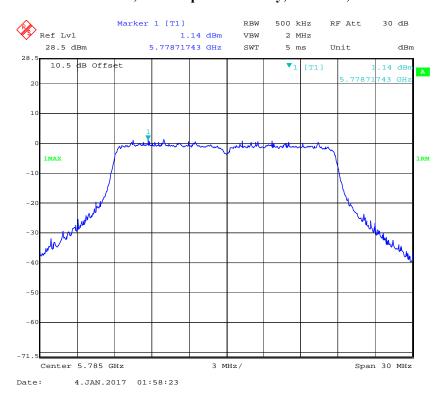
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802.11n20 mode, Power Spectral Density, Antenn 1, 5785 MHz

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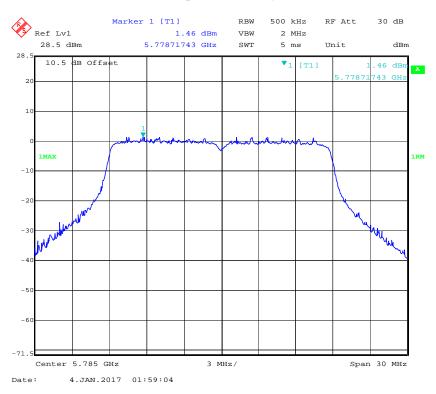


802.11n20 mode, Power Spectral Density, Antenn 2, 5785 MHz

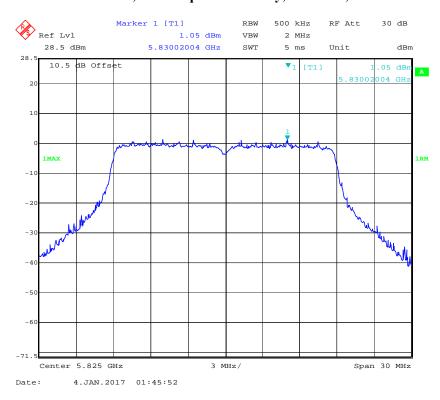


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802.11n20 mode, Power Spectral Density, Antenn 3, 5785 MHz

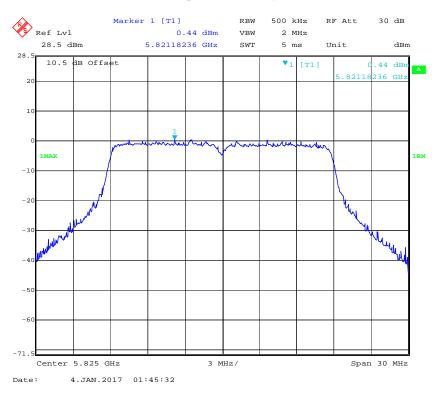


802.11n20 mode, Power Spectral Density, Antenn 1, 5825 MHz

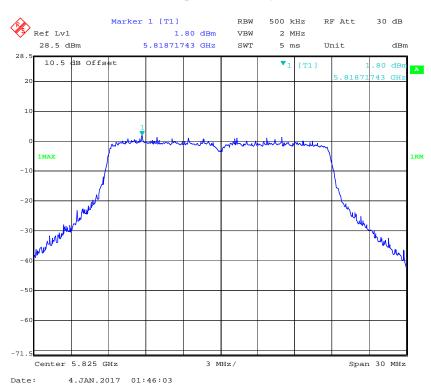


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802.11n20 mode, Power Spectral Density, Antenn 2, 5825 MHz

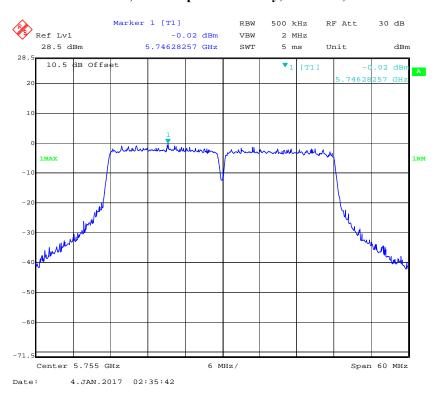


802.11n20 mode, Power Spectral Density, Antenn 3, 5825 MHz

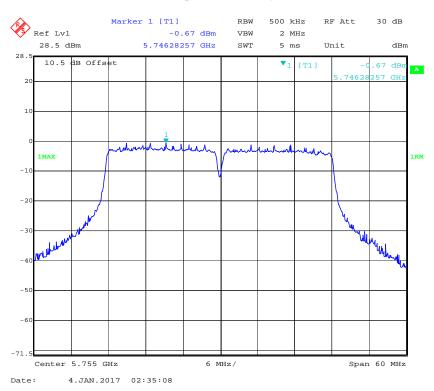


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802.11n40 mode, Power Spectral Density, Antenn 1, 5755 MHz



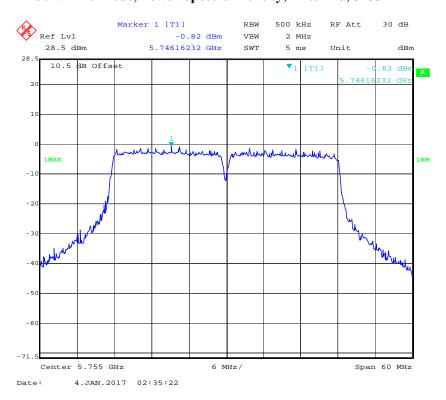
802.11n40 mode, Power Spectral Density, Antenn 2, 5755 MHz



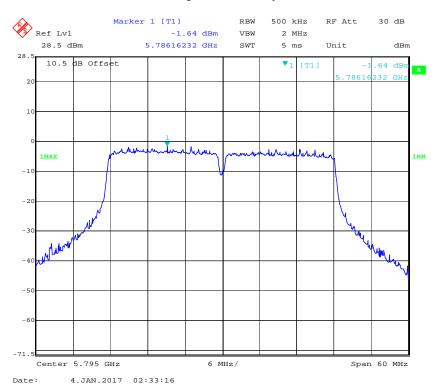
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802.11n40 mode, Power Spectral Density, Antenn 3, 5755 MHz

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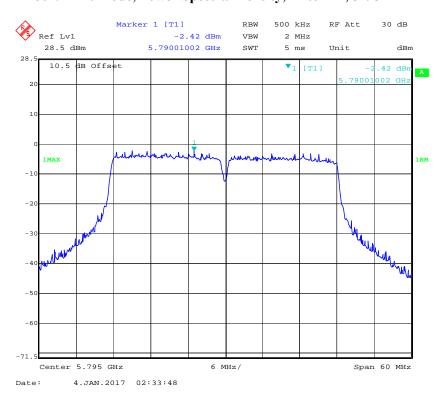
802.11n40 mode, Power Spectral Density, Antenn 1, 5795 MHz



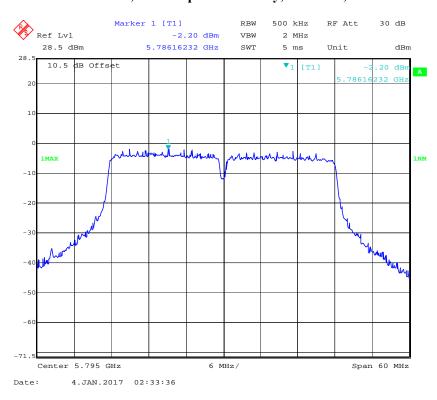
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802.11n40 mode, Power Spectral Density, Antenn 2, 5795 MHz

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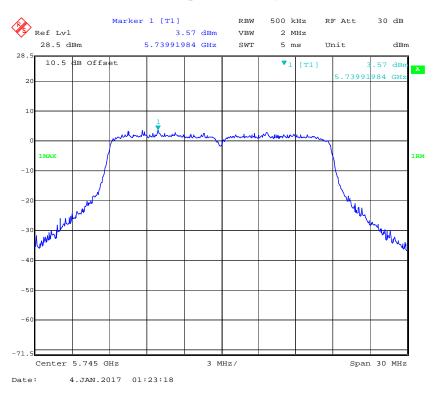


802.11n40 mode, Power Spectral Density, Antenn 3, 5795 MHz

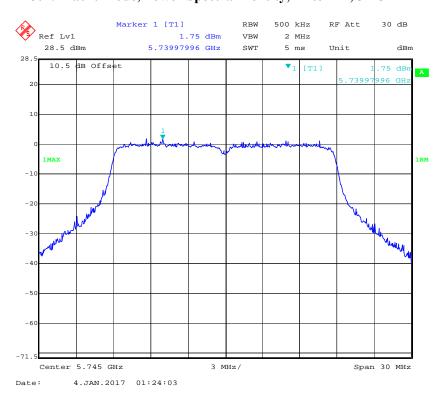


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802.11ac20 mode, Power Spectral Density, Antenn 1, 5745 MHz

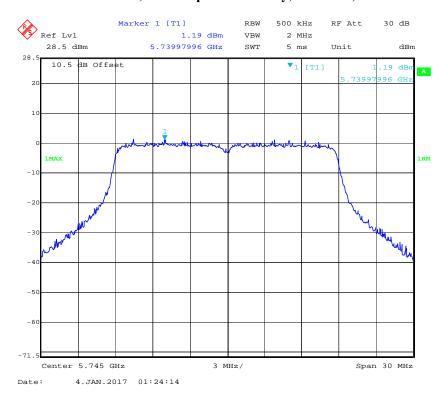


802. 11ac20 mode, Power Spectral Density, Antenn 2, 5745 MHz

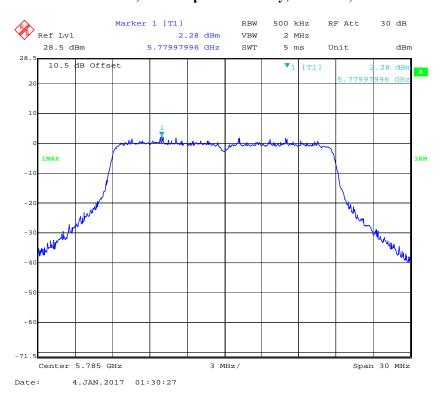


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802. 11ac20 mode, Power Spectral Density, Antenn 3, 5745 MHz

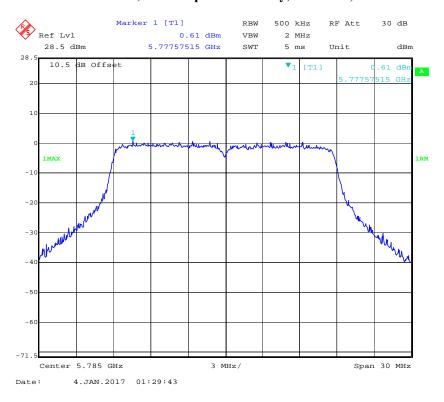


802. 11ac20 mode, Power Spectral Density, Antenn 1, 5785 MHz

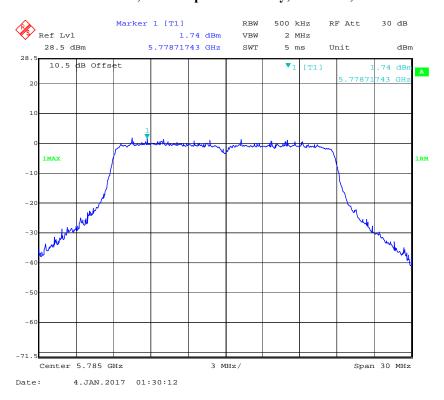


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802. 11ac20 mode, Power Spectral Density, Antenn 2, 5785 MHz

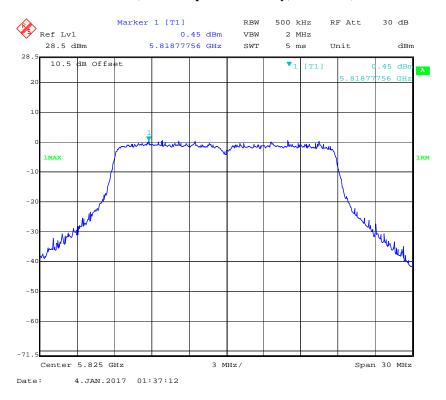


802. 11ac20 mode, Power Spectral Density, Antenn 3, 5785 MHz

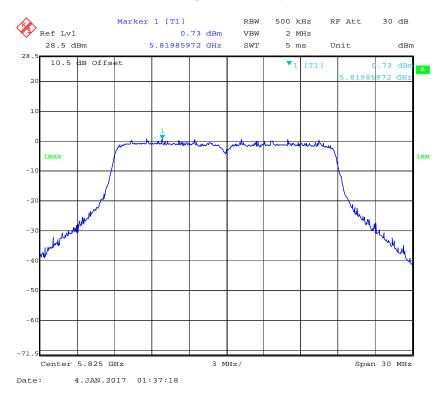


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802. 11ac20 mode, Power Spectral Density, Antenn 1, 5825 MHz



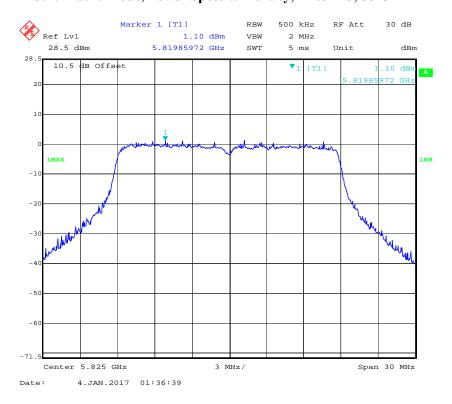
802. 11ac20 mode, Power Spectral Density, Antenn 2, 5825 MHz



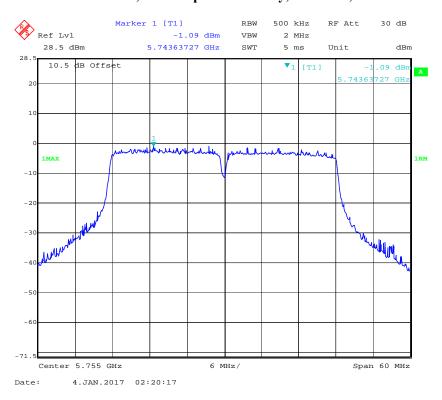
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802. 11ac20 mode, Power Spectral Density, Antenn 3, 5825 MHz

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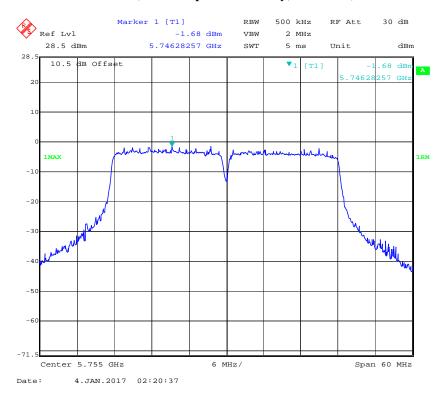


802. 11ac40 mode, Power Spectral Density, Antenn 1, 5755 MHz

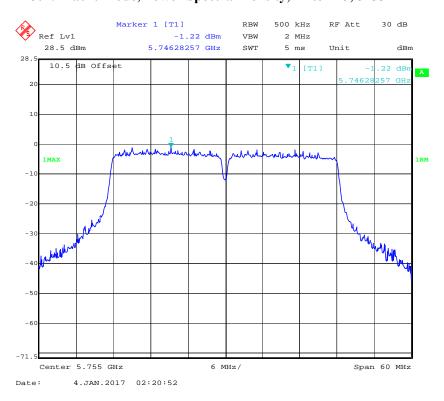


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802. 11ac40 mode, Power Spectral Density, Antenn 2, 5755 MHz



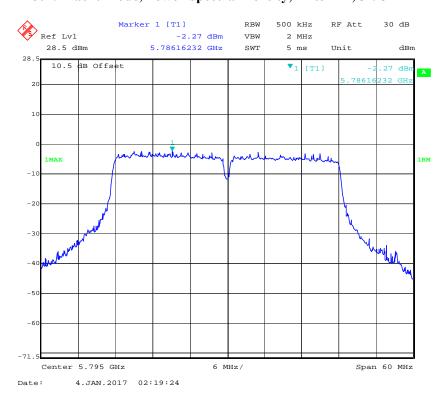
802. 11ac40 mode, Power Spectral Density, Antenn 3, 5755 MHz



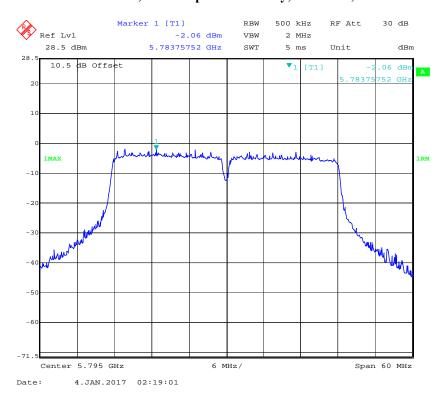
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802. 11ac40 mode, Power Spectral Density, Antenn 1, 5795 MHz

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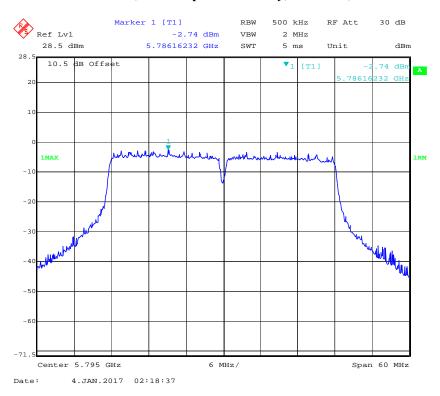
802. 11ac40 mode, Power Spectral Density, Antenn 2, 5795 MHz



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802. 11ac40 mode, Power Spectral Density, Antenn 3, 5795 MHz

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***** END OF REPORT *****

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