

FCC PART 15.407 TEST REPORT

For

Grandstream Networks, Inc.

126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

FCC ID: YZZGWN7610

Report Type: Original Report	Product Type: Wireless Access point
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Report Number: <u>RSZ160602008-00C</u>	
Report Date: <u>2016-08-12</u>	
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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 *Grandstream Networks, Inc.*'s product, model number: *GWN7610 (FCC ID: YZZGWN7610)* in this report was a *Wireless Access point*, which was measured approximately: 20.0 cm (L) x 20.0 cm (W) x 6.0 cm (H), rated with input voltage: DC 24 V from adapter or powered by POE supply.

** All measurement and test data in this report was gathered from production sample serial number 1602422 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2016-06-02.*

Objective

This type approval report is prepared on behalf of *Grandstream Networks, Inc.* 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: YZZGWN7610.

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 and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.81 dB for 30MHz-1GHz, and 4.88 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) 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 October 31, 2013. 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.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

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: 21
802.11n20: Rate MCS6.5, Power level: 21
802.11n40: Rate MCS13.5, Power level: 21
802.11ac20: Rate MNSS 6.5, Power level: 21
802.11ac40: Rate MNSS 13.5, Power level: 21
802.11ac80: Rate MNSS 29.3, Power level: 21

5725 MHz – 5850 MHz:

802.11a: Rate 6Mbps, Power level: 21
802.11n20: Rate MCS6.5, Power level: 21
802.11n40: Rate MCS13.5, Power level: 21
802.11ac20: Rate MNSS 6.5, Power level: 21
802.11ac40: Rate MNSS 13.5, Power level: 21
802.11ac80: Rate MNSS 29.3, Power level: 21

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
intel	PC	CQ45	N/A
NETGEAR	POE	FS108P	1DL294310006A
NETGEAR	Adapter 1	DSA-0421S-50	330-10142-01
Mass power	Adapter 2	NBS24J240100VU	1604

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 $N_{ANT} \leq 4$;

Array Gain = 0 dB for channel widths ≥ 40 MHz for any N_{ANT} ;

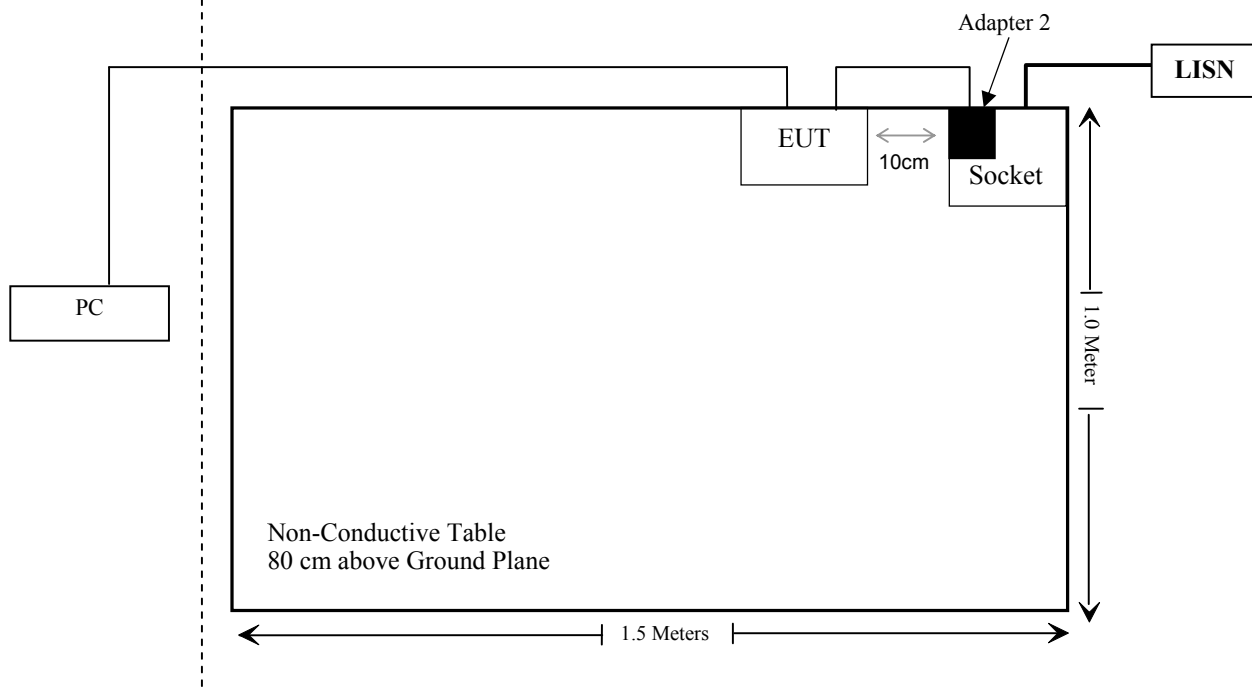
Array Gain = 3 dB for 20-MHz channel widths with $N_{ANT} \geq 5$.

External I/O Cable

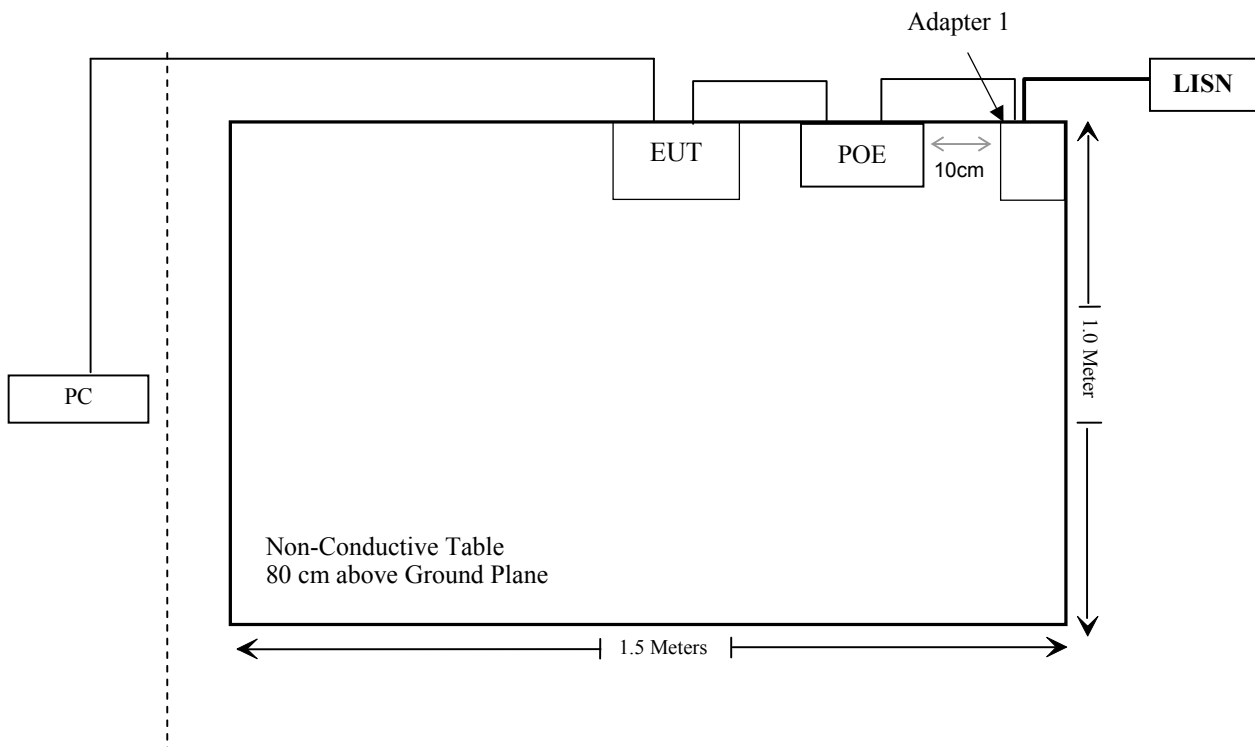
Cable Description	Length (m)	From Port	To
Un-shielding Un-detachable DC cable	0.8	POE	Adapter 1
Un-shielding detachable RJ45 cable	1.0	POE	EUT
Un-shielding detachable RJ45 cable	3.0	EUT	PC
Un-shielding detachable AC cable	0.9	Adapter 1	LISN
Un-shielding detachable AC cable	0.9	Adapter 2	LISN
Un-shielding Un-detachable DC cable	1.5	EUT	Adapter 2

Block Diagram of Test Setup

Powered by Adapter



Powered by POE



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

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

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)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	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/f ²)	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/cm²);

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 (MHz)	Antenna Gain		Max tune –up Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm²)	MPE Limit (mW/cm²)
	(dBi)	(numeric)	(dBm)	(mW)			
5180-5240	3.0	2.0	27.50	562.34	20	0.224	1.0
5745-5825	3.0	2.0	27.50	562.34	20	0.224	1.0

Simultaneous transmitting consideration: (referring to the DTS report, the highest MPE for 2.4G band is 0.20mW/cm²)

The ratio= $MPE_{DTS}/limit + MPE_{UNII}/limit = 0.2 + 0.224 = 0.424 < 1.0$, simultaneous exposure is not required.

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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:

- 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 3.0 dBi which was soldered on PCB, fulfill the requirement of this section, and please refer to the EUT photo.

Result: Compliance.

FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (6)

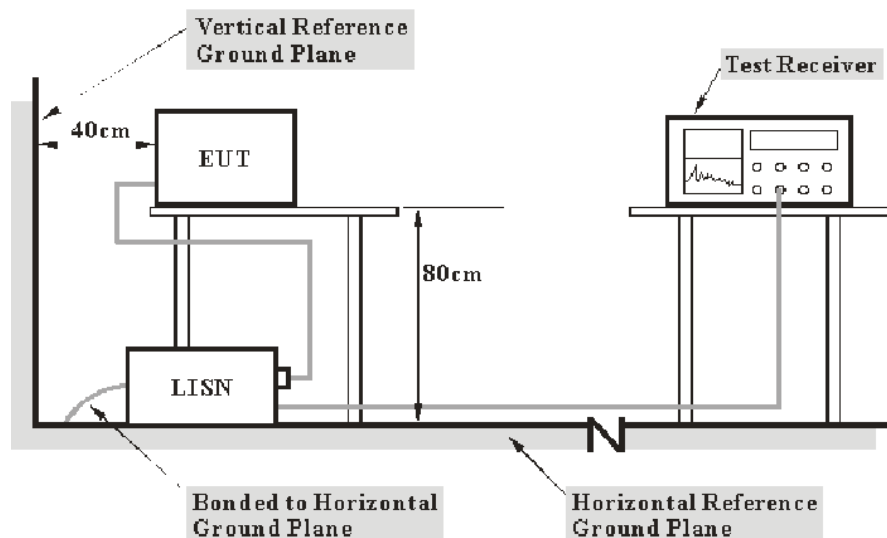
Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements maybe receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report

Port	Expanded Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 dB (k=2, 95% level of confidence)

EUT Setup



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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2016-06-01	2017-05-31
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2015-12-15	2016-12-14
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2016-05-14	2017-05-14
Rohde & Schwarz	CE Test software	EMC 32	V8.53	NCR	NCR
Ducommun technologies	Conducted Emission Cable	RG-214	CB031	2016-05-06	2017-05-06

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

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

$$L_m + U_{(L_m)} \leq L_{\text{lim}} + U_{\text{cispr}}$$

In BACL, $U_{(L_m)}$ 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:	26 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

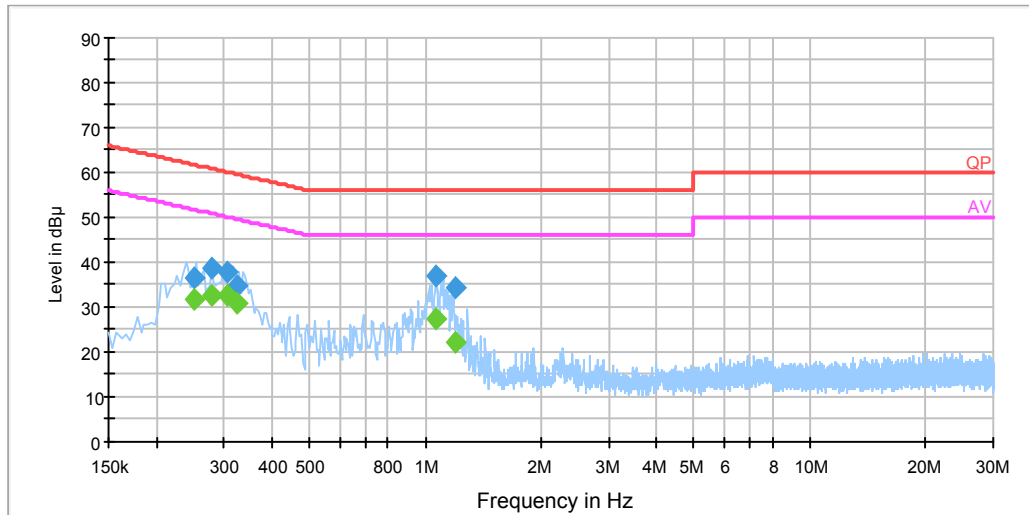
The testing was performed by Simon Wang on 2016-07-02.

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

Powered by adapter

AC 120V/60 Hz, Line:

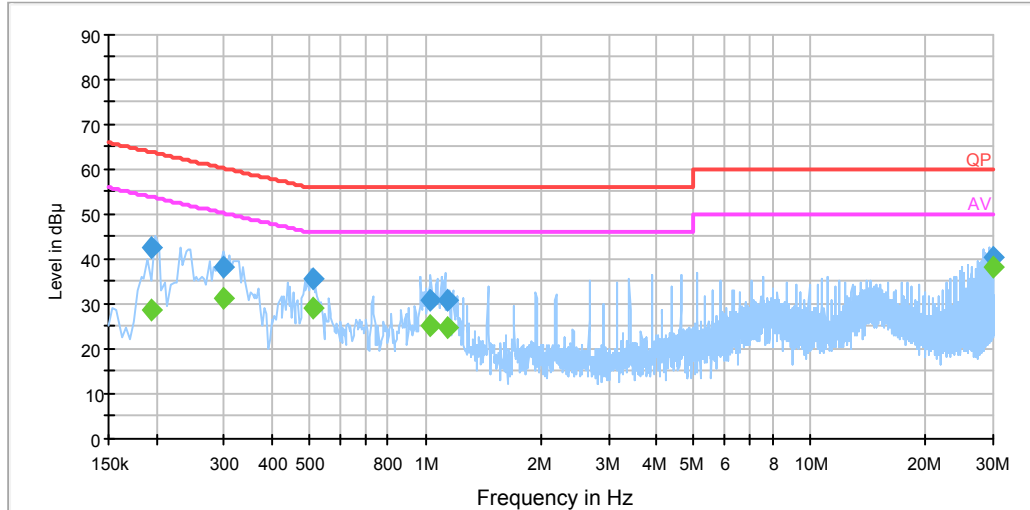
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.249500	36.7	20.0	61.8	25.1	QP
0.277500	38.8	19.9	60.9	22.1	QP
0.305350	37.9	19.9	60.1	22.2	QP
0.322770	34.9	19.9	59.6	24.7	QP
1.069950	37.0	20.0	56.0	19.0	QP
1.195670	34.5	20.0	56.0	21.5	QP
0.249500	31.7	20.0	51.8	20.1	Ave.
0.277500	32.6	19.9	50.9	18.3	Ave.
0.305350	32.5	19.9	50.1	17.6	Ave.
0.322770	30.9	19.9	49.6	18.7	Ave.
1.069950	27.6	20.0	46.0	18.4	Ave.
1.195670	22.2	20.0	46.0	23.8	Ave.

AC120V, 60 Hz, Neutral:

EMI Auto Test N

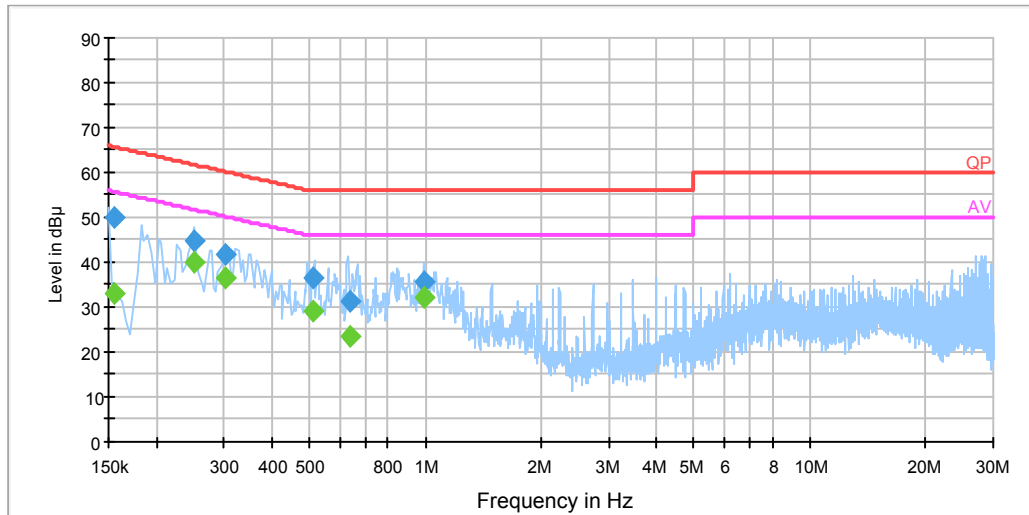


Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.193500	42.5	20.0	63.9	21.4	QP
0.297500	38.1	19.9	60.3	22.0	QP
0.509530	35.6	19.9	56.0	20.4	QP
1.026490	30.8	20.0	56.0	25.2	QP
1.141110	31.0	20.0	56.0	25.0	QP
29.877830	40.5	20.2	60.0	19.5	QP
0.193500	28.6	20.0	53.9	25.3	Ave.
0.297500	31.4	19.9	50.3	18.9	Ave.
0.509530	29.0	19.9	46.0	17.0	Ave.
1.026490	25.0	20.0	46.0	21.0	Ave.
1.141110	24.7	20.0	46.0	21.3	Ave.
29.877830	38.2	20.2	50.0	11.8	Ave.

Powered by POE

AC 120V/60 Hz, Line:

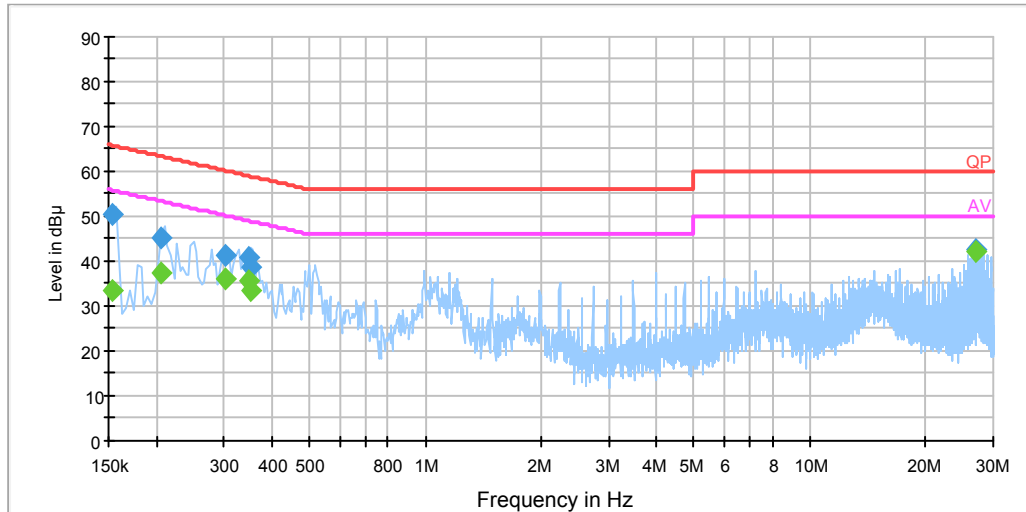
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.154500	49.8	20.0	65.8	16.0	QP
0.249500	44.7	20.0	61.8	17.1	QP
0.301470	41.7	19.9	60.2	18.5	QP
0.510290	36.7	19.9	56.0	19.3	QP
0.639450	31.3	19.9	56.0	24.7	QP
0.991150	35.5	20.0	56.0	20.5	QP
0.154500	33.2	20.0	55.8	22.6	Ave.
0.249500	39.9	20.0	51.8	11.9	Ave.
0.301470	36.5	19.9	50.2	13.7	Ave.
0.510290	29.0	19.9	46.0	17.0	Ave.
0.639450	23.6	19.9	46.0	22.4	Ave.
0.991150	32.0	20.0	46.0	14.0	Ave.

AC120V, 60 Hz, Neutral:

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.153500	50.5	20.0	65.8	15.3	QP
0.205500	45.3	20.0	63.4	18.1	QP
0.301470	41.5	19.9	60.2	18.7	QP
0.348690	40.9	19.9	59.0	18.1	QP
0.352750	38.8	19.9	58.9	20.1	QP
27.079650	42.8	20.2	60.0	17.2	QP
0.153500	33.5	20.0	55.8	22.3	Ave.
0.205500	37.5	20.0	53.4	15.9	Ave.
0.301470	36.1	19.9	50.2	14.1	Ave.
0.348690	35.8	19.9	49.0	13.2	Ave.
0.352750	33.3	19.9	48.9	15.6	Ave.
27.079650	42.3	20.2	50.0	7.7	Ave.

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

§15.205 & §15.209 & §15.407(B) (1),(4),(6),(7) – UNDESIRABLE EMISSION**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) $E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$, 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 dB μ 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 dB μ 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 (68.2dB μ V/m) was applied.
- 2) For 5MHz-25 MHz above or below the band edge, a level of 10 dBm/MHz (105.2dB μ V/m) was applied.
- 2) For 0MHz-5 MHz above or below the band edge, a level of 15.6 dBm/MHz (110.8dB μ V/m) was applied.

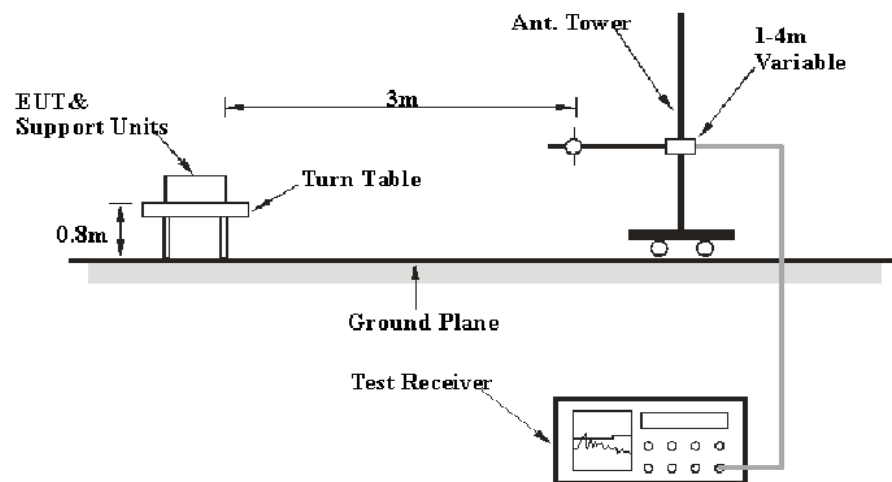
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

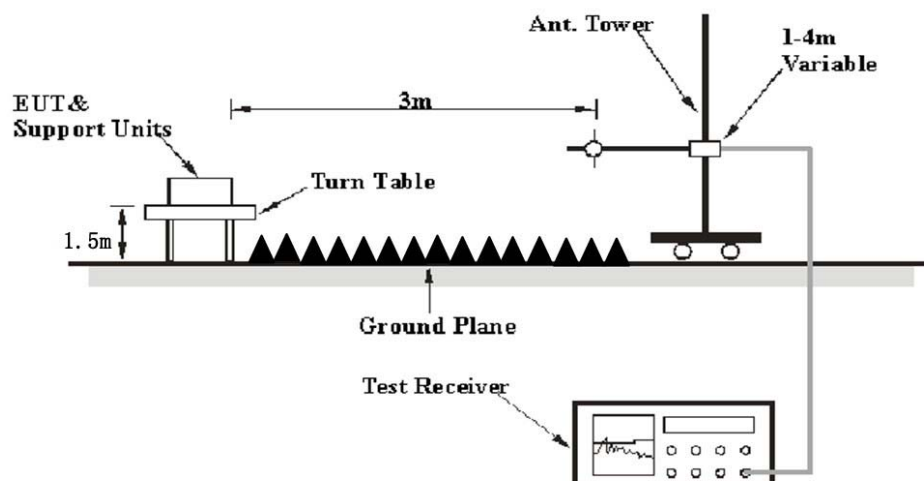
Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement at antenna port. And the uncertainty will not be taken into consideration for the test data recorded in the report.

EUT Setup

Below 1 GHz:



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,

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
Above 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	10 Hz	/	Ave.

Test Procedure

Radiated Spurious Emission

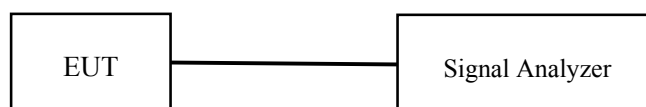
During the radiated emission test, the adapter was connected to the AC floor outlet.

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 ≥ 1 MHz, report the peak value out of the operating 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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2015-05-06	2017-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2015-12-15	2016-12-14
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2014-12-07	2017-12-06
Mini	Amplifier	ZVA-183-S+	5969001149	2016-04-23	2017-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2016-04-14	2017-04-14
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
TDK	Chamber	Chamber A	2#	2013-10-15	2016-10-15
TDK	Chamber	Chamber B	1#	2015-07-23	2016-07-22
DUCOMMUN	Pre-amplifier	ALN-22093530-01	991373-01	2015-12-02	2016-12-01
R&S	Auto test Software	EMC32	V9.10	NCR	NCR
Ducommun technologies	RF Cable	UFA210A-1-4724-30050U	MFR64369223410-001	2015-10-22	2016-10-22
Ducommun technologies	RF Cable	104PEA	218124002	2015-10-22	2016-10-22
Ducommun technologies	RF Cable	RG-214	1	2016-05-06	2017-05-06
Ducommun technologies	RF Cable	RG-214	2	2016-05-06	2017-05-06

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

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

$$L_m + U_{(L_m)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(L_m)}$ 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:	26 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang on 2016-07-02.

EUT operation mode: Transmitting

30 MHz ~ 40 GHz: (5150-5250 MHz & 5725-5825 MHz)**802.11a mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5180 MHz (Chain0)									
170.6	42.91	QP	170	2.1	H	-7.7	35.21	43.5	8.29
5180.00	87.55	PK	213	1.9	H	13.89	101.44	/	/
5180.00	76.76	Ave.	213	1.9	H	13.89	90.65	/	/
5180.00	98.95	PK	214	2.1	V	13.89	112.84	/	/
5180.00	88.16	Ave.	214	2.1	V	13.89	102.05	/	/
5147.8	46.37	PK	17	2.1	H	13.97	60.34	74	13.66
5147.8	31.18	AV	17	2.1	H	13.97	45.15	54	8.85
10360	40.28	PK	68	1.7	H	24.74	65.02	74	8.98
10360	24.4	Ave.	68	1.7	H	24.74	49.14	54	4.86
5180 MHz (Chain 1)									
170.6	43.25	QP	196	2.1	H	-7.7	35.55	43.5	7.95
5180.00	90.41	PK	75	2.1	H	13.89	104.30	/	/
5180.00	79.62	Ave.	75	2.1	H	13.89	93.51	/	/
5180.00	98.36	PK	207	1.4	V	13.89	112.25	/	/
5180.00	88.01	Ave.	207	1.4	V	13.89	101.90	/	/
5147.8	44.73	PK	261	1.8	H	13.97	58.7	74	15.3
5147.8	29.49	AV	261	1.8	H	13.97	43.46	54	10.54
10360	39.35	PK	179	1.5	H	24.74	64.09	74	9.91
10360	23.64	Ave.	179	1.5	H	24.74	48.38	54	5.62
5180 MHz (Chain 2)									
170.6	43.22	QP	77	2.1	H	-7.7	35.52	43.5	7.98
5180.00	88.68	PK	70	2.2	H	13.89	102.57	/	/
5180.00	77.91	Ave.	70	2.2	H	13.89	91.80	/	/
5180.00	97.87	PK	225	1.4	V	13.89	111.76	/	/
5180.00	86.46	Ave.	225	1.4	V	13.89	100.35	/	/
5147.8	45.33	PK	206	1.5	H	13.97	59.3	74	14.7
5147.8	33.25	AV	206	1.5	H	13.97	47.22	54	6.78
10360	40.95	PK	354	1.3	H	24.74	65.69	74	8.31
10360	24.95	Ave.	354	1.3	H	24.74	49.69	54	4.31
5180 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	43.37	QP	256	1.9	H	-7.7	35.67	43.5	7.83
5180.00	91.24	PK	222	2.4	H	13.89	105.13	/	/
5180.00	80.48	Ave.	222	2.4	H	13.89	94.37	/	/
5180.00	104.08	PK	72	1.5	V	13.89	117.97	/	/
5180.00	93.04	Ave.	72	1.5	V	13.89	106.93	/	/
5147.8	47.67	PK	164	1.5	H	13.97	61.64	74	12.36
5147.8	34.96	AV	164	1.5	H	13.97	48.93	54	5.07
10360	41.02	PK	61	1.9	H	24.74	65.76	74	8.24
10360	25.09	Ave.	255	1.9	H	24.74	49.83	54	4.17

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5200 MHz (Chain 0)									
170.6	43.18	QP	28	2.1	H	-7.7	35.48	43.5	8.02
5200.00	87.43	PK	281	2.2	H	13.89	101.32	/	/
5200.00	76.41	Ave.	281	2.2	H	13.89	90.30	/	/
5200.00	99.69	PK	291	1.1	V	13.89	113.58	/	/
5200.00	89.33	Ave.	291	1.1	V	13.89	103.22	/	/
10400	39.24	PK	62	2.1	H	24.74	63.98	74	10.02
10400	23.38	Ave.	62	2.1	H	24.74	48.12	54	5.88
5200 MHz (Chain 1)									
170.6	43.16	QP	39	2.1	H	-7.7	35.46	43.5	8.04
5200.00	88.43	PK	14	2.5	H	13.89	102.32	/	/
5200.00	76.09	Ave.	14	2.5	H	13.89	89.98	/	/
5200.00	98.04	PK	132	1.4	V	13.89	111.93	/	/
5200.00	86.67	Ave.	132	1.4	V	13.89	100.56	/	/
10400	40.62	PK	259	1.4	H	24.74	65.36	74	8.64
10400	24	Ave.	259	1.4	H	24.74	48.74	54	5.26
5200 MHz (Chain 2)									
170.6	43.11	QP	70	2.1	H	-7.7	35.41	43.5	8.09
5200.00	88.97	PK	132	2.4	H	13.89	102.86	/	/
5200.00	78.24	Ave.	132	2.4	H	13.89	92.13	/	/
5200.00	99.84	PK	55	2.3	V	13.89	113.73	/	/
5200.00	89.18	Ave.	55	2.3	V	13.89	103.07	/	/
10400	42.27	PK	120	1.1	H	24.74	67.01	74	6.99
10400	26.02	Ave.	120	1.1	H	24.74	50.76	54	3.24
5200 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
43.1	QP	155	1.9	H	-7.7	35.4	43.5	8.1	43.1
5200.00	90.31	PK	253	2.4	H	13.89	104.20	/	/
5200.00	80.48	Ave.	253	2.4	H	13.89	94.37	/	/
5200.00	102.32	PK	9	2.2	V	13.89	116.21	/	/
5200.00	92.25	Ave.	9	2.2	V	13.89	106.14	/	/
10400	42.45	PK	78	1.8	H	24.74	67.19	74	6.81
10400	26.57	Ave.	268	1.5	H	24.74	51.31	54	2.69

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5240 MHz (Chain 0)									
170.6	43.06	QP	52	2.1	H	-7.7	35.36	43.5	8.14
5240.00	87.94	PK	269	1.7	H	13.89	101.83	/	/
5240.00	77.01	Ave.	269	1.7	H	13.89	90.90	/	/
5240.00	99.05	PK	156	1.2	V	13.89	112.94	/	/
5240.00	88.55	Ave.	156	1.2	V	13.89	102.44	/	/
5352.3	40.29	PK	170	1.2	V	13.94	54.23	74	19.77
5352.3	27.7	Ave	170	1.2	V	13.94	41.63	54	12.37
10480	40.53	PK	226	2.1	H	24.74	65.27	74	8.73
10480	26.03	Ave.	226	2.1	H	24.74	50.77	54	3.23
5240 MHz (Chain 1)									
170.6	43.1	QP	245	2.1	H	-7.7	35.4	43.5	8.1
5240.00	88.04	PK	163	1.7	H	13.89	101.93	/	/
5240.00	77.34	Ave.	163	1.7	H	13.89	91.23	/	/
5240.00	98.31	PK	16	2.1	V	13.89	112.20	/	/
5240.00	88.14	Ave.	16	2.1	V	13.89	102.03	/	/
5352.3	40	PK	236	2.2	V	13.94	54.41	74	19.59
5352.3	27.54	Ave	236	2.2	V	13.94	41.48	54	12.52
10480	39.66	PK	44	1.7	H	24.74	64.40	74	9.60
10480	25.34	Ave.	44	1.7	H	24.74	50.08	54	3.92
5240 MHz (Chain 2)									
170.6	43.07	QP	169	2.1	H	-7.7	35.37	43.5	8.13
5240.00	88.27	PK	260	1.5	H	13.89	102.16	/	/
5240.00	77.83	Ave.	260	1.5	H	13.89	91.72	/	/
5240.00	98.75	PK	70	2.0	V	13.89	112.64	/	/
5240.00	88.29	Ave.	70	2.0	V	13.89	102.18	/	/
5352.3	40.93	PK	157	1.6	V	13.94	54.87	74	19.13
5352.3	29.13	Ave	157	1.6	V	13.94	43.07	54	10.93
10480	38.39	PK	271	1.8	H	24.74	63.13	74	10.87
10480	24.54	Ave.	271	1.8	H	24.74	49.28	54	4.72
5240 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	43.14	QP	163	1.8	H	-7.7	35.44	43.5	8.06
5240.00	95.71	PK	83	1.3	H	13.89	109.60	/	/
5240.00	84.73	Ave.	83	1.3	H	13.89	98.62	/	/
5240.00	103.31	PK	270	2.2	V	13.89	117.20	/	/
5240.00	92.68	Ave.	270	2.2	V	13.89	106.57	/	/
5352.3	43.19	PK	251	1.5	V	13.94	57.13	74	16.87
5352.3	31.91	Ave	251	1.5	V	13.94	45.85	54	8.15
10480	42.72	PK	294	2	H	24.74	67.46	74	6.54
10480	26.34	Ave.	282	1.8	H	24.74	51.08	54	2.92

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5745 MHz (Chain 0)									
170.6	43.15	QP	121	2.1	H	-7.7	35.45	43.5	8.05
5745.00	91.08	PK	49	1.2	H	15.54	106.62	/	/
5745.00	80.21	Ave.	49	1.2	H	15.54	95.75	/	/
5745.00	97.31	PK	92	2.0	V	15.54	112.85	/	/
5745.00	86.61	Ave.	92	2.0	V	15.54	102.15	/	/
5723.7	44.1	PK	104	1.4	H	13.94	58.04	110.8	52.76
5723.7	44.55	PK	107	2.1	V	13.94	58.49	110.8	52.31
5717.9	38.73	PK	267	2.1	H	13.94	52.67	105.2	52.53
5717.9	36.6	PK	62	1.8	V	13.94	50.54	105.2	54.66
5697.8	39.18	PK	179	1.9	H	13.94	53.12	68.2	15.08
5697.8	38.88	PK	179	1.4	V	13.94	52.82	68.2	15.38
11490	41.57	PK	227	2.0	H	27.36	68.93	74	5.07
11490	23.5	Ave.	227	2.0	H	27.36	50.86	54	3.14
5745 MHz (Chain 1)									
170.6	42.86	QP	187	2.1	H	-7.7	35.16	43.5	8.34
5745.00	86.97	PK	251	2.0	H	15.54	102.51	/	/
5745.00	76.41	Ave.	251	2.0	H	15.54	91.95	/	/
5745.00	97.75	PK	4	1.7	V	15.54	113.29	/	/
5745.00	86.76	Ave.	4	1.7	V	15.54	102.30	/	/
5723.7	44.32	PK	222	1.2	H	13.94	58.26	110.8	52.54
5723.7	42.8	PK	236	1.3	V	13.94	56.74	110.8	54.06
5717.9	36.88	PK	75	1.8	H	13.94	50.82	105.2	54.38
5717.9	37.98	PK	173	1.5	V	13.94	51.92	105.2	53.28
5697.8	38.25	PK	212	1.9	H	13.94	52.19	68.2	16.01
5697.8	38.64	PK	271	1.3	V	13.94	52.58	68.2	15.62
11490	42.28	PK	56	2.0	H	27.36	69.64	74	4.36
11490	24.25	Ave.	56	2.0	H	27.36	51.61	54	2.39

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5745 MHz (Chain 2)									
170.6	42.93	QP	23	2.1	H	-7.7	35.23	43.5	8.27
5745.00	87.83	PK	51	1.8	H	15.54	103.37	/	/
5745.00	77.28	Ave.	51	1.8	H	15.54	92.82	/	/
5745.00	97.85	PK	76	1.2	V	15.54	113.39	/	/
5745.00	87.39	Ave.	76	1.2	V	15.54	102.93	/	/
5723.7	43.49	PK	218	2.1	H	13.94	57.43	110.8	53.37
5723.7	45.6	PK	89	1.3	V	13.94	59.54	110.8	51.26
5717.9	39.14	PK	162	2.1	H	13.94	53.08	105.2	52.12
5717.9	38.28	PK	294	2.2	V	13.94	52.22	105.2	52.98
5697.8	37.49	PK	155	1.7	H	13.94	51.43	68.2	16.77
5697.8	38.38	PK	205	2.1	V	13.94	52.32	68.2	15.88
11490	41.16	PK	30	1.3	H	27.36	68.52	74	5.48
11490	23.17	Ave.	30	1.3	H	27.36	50.53	54	3.47
5745 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	43.51	QP	160	1.6	H	-7.7	35.81	43.5	7.69
5745.00	93.12	PK	7	2.1	H	15.54	108.66	/	/
5745.00	82.82	Ave.	7	2.1	H	15.54	98.36	/	/
5745.00	99.64	PK	308	1.1	V	15.54	115.18	/	/
5745.00	89.24	Ave.	308	1.1	V	15.54	104.78	/	/
5723.7	46.15	PK	258	2.1	H	13.94	59.9	110.8	50.9
5723.7	46.69	PK	157	1.7	V	13.94	60.13	110.8	50.67
5717.9	40.84	PK	233	1.5	H	13.94	55.13	105.2	50.07
5717.9	40.25	PK	179	1.4	V	13.94	54.67	105.2	50.53
5697.8	40.45	PK	280	1.4	H	13.94	54.03	68.2	14.17
5697.8	39.97	PK	232	1.8	V	13.94	54.37	68.2	13.83
11490	42.81	PK	255	1.5	V	27.36	70.17	74	3.83
11490	23.90	Ave.	151	1.5	V	27.36	51.26	54	2.74

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5785 MHz (Chain 0)									
170.6	43.09	QP	225	2.1	H	-7.7	35.39	43.5	8.11
5785.00	85.83	PK	223	2.1	H	15.19	101.02	/	/
5785.00	74.58	Ave.	223	2.1	H	15.19	89.77	/	/
5785.00	98.19	PK	243	1.4	V	15.19	113.38	/	/
5785.00	87.75	Ave.	243	1.4	V	15.19	102.94	/	/
11570	41.06	PK	330	1.2	H	28.49	69.55	74	4.45
11570	23.32	Ave.	330	1.2	H	28.49	51.81	54	2.19
5785 MHz (Chain 1)									
170.6	43.18	QP	17	2.1	H	-7.7	35.48	43.5	8.02
5785.00	87.41	PK	173	1.6	H	15.19	102.60	/	/
5785.00	76.68	Ave.	173	1.6	H	15.19	91.87	/	/
5785.00	97.56	PK	325	1.7	V	15.19	112.75	/	/
5785.00	86.46	Ave.	325	1.7	V	15.19	101.65	/	/
11570	41.4	PK	305	1.4	H	28.49	69.89	74	4.11
11570	23.22	Ave.	305	1.4	H	28.49	51.71	54	2.29
5785 MHz (Chain 2)									
170.6	43.44	QP	55	2.1	H	-7.7	35.74	43.5	7.76
5785.00	87.86	PK	92	1.4	H	15.19	103.05	/	/
5785.00	76.94	Ave.	92	1.4	H	15.19	92.13	/	/
5785.00	97.85	PK	17	2.2	V	15.19	113.04	/	/
5785.00	87.29	Ave.	17	2.2	V	15.19	102.48	/	/
11570	40.71	PK	122	1.1	H	28.49	69.20	74	4.80
11570	22.58	Ave.	122	1.1	H	28.49	51.07	54	2.93
5785 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	43.71	QP	149	1.6	H	-7.7	36.01	43.5	7.49
5785.00	89.68	PK	183	2.0	H	15.19	104.87	/	/
5785.00	79.59	Ave.	183	2.0	H	15.19	94.78	/	/
5785.00	98.31	PK	20	2.1	V	15.19	113.50	/	/
5785.00	89.93	Ave.	20	2.1	V	15.19	105.12	/	/
11570	42.54	PK	205	1.7	V	28.49	71.03	74	2.97
11570	22.45	Ave.	72	1.7	V	28.49	50.94	54	3.06

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5825 MHz (Chain 0)									
170.6	43.05	QP	8	2.1	H	-7.7	35.35	43.5	8.15
5825.00	91.34	PK	86	1.8	H	15.19	106.53	/	/
5825.00	80.45	Ave.	86	1.8	H	15.19	95.64	/	/
5825.00	98.87	PK	62	1.9	V	15.19	114.06	/	/
5825.00	88.21	Ave.	62	1.9	V	15.19	103.40	/	/
5853.3	44.27	PK	176	1.2	H	13.94	58.21	110.8	52.59
5853.3	45.22	PK	178	1.8	V	13.94	59.16	110.8	51.64
5858	37.72	PK	178	2.2	H	13.94	51.66	105.2	53.54
5858	39.31	PK	89	2.1	V	13.94	53.25	105.2	51.95
5880	38.06	PK	254	2.1	H	13.94	52	68.2	16.2
5880	38.29	PK	285	1.4	V	13.94	52.23	68.2	15.97
11650	42.37	PK	267	2.3	H	28.49	70.86	74	3.14
11650	23.27	Ave.	267	2.3	H	28.49	51.76	54	2.24
5825 MHz (Chain 1)									
170.6	43.26	QP	67	2.1	H	-7.7	35.56	43.5	7.94
5825.00	86.81	PK	355	2.1	H	15.19	102.00	/	/
5825.00	75.93	Ave.	355	2.1	H	15.19	91.12	/	/
5825.00	97.91	PK	296	2.0	V	15.19	113.10	/	/
5825.00	87.09	Ave.	296	2.0	V	15.19	102.28	/	/
5853.3	44.53	PK	133	1.4	H	13.94	58.47	110.8	52.33
5853.3	46.37	PK	102	2.1	V	13.94	60.31	110.8	50.49
5858	38.07	PK	213	1.8	H	13.94	52.01	105.2	53.19
5858	38.72	PK	181	2	V	13.94	52.66	105.2	52.54
5880	37.92	PK	160	1.4	H	13.94	51.86	68.2	16.34
5880	38.8	PK	298	1.5	V	13.94	52.74	68.2	15.46
11650	42.48	PK	73	2.0	H	28.49	70.97	74	3.03
11650	23.47	Ave.	73	2.0	H	28.49	51.96	54	2.04

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5825 MHz (Chain 2)									
170.6	43.03	QP	302	2.1	H	-7.7	35.33	43.5	8.17
5825.00	86.97	PK	220	2.4	H	15.19	102.16	/	/
5825.00	76.94	Ave.	220	2.4	H	15.19	92.13	/	/
5825.00	96.74	PK	8	2.0	V	15.19	111.93	/	/
5825.00	86.37	Ave.	8	2.0	V	15.19	101.56	/	/
5853.3	45.17	PK	150	1.7	H	13.94	59.11	110.8	51.69
5853.3	44.29	PK	248	2	V	13.94	58.23	110.8	52.57
5858	37.58	PK	53	1.8	H	13.94	51.52	105.2	53.68
5858	39.04	PK	300	2.1	V	13.94	52.98	105.2	52.22
5880	37.12	PK	212	2	H	13.94	51.06	68.2	17.14
5880	36.44	PK	91	2.2	V	13.94	50.38	68.2	17.82
11650	41.35	PK	351	1.9	H	28.49	69.84	74	4.16
11650	22.45	Ave.	351	1.9	H	28.49	50.94	54	3.06
5825 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	43.62	QP	171	1.6	H	-7.7	35.92	43.5	7.58
5825.00	94.51	PK	55	1.4	H	15.19	109.70	/	/
5825.00	83.26	Ave.	55	1.4	H	15.19	98.45	/	/
5825.00	101.18	PK	199	1.6	V	15.19	116.37	/	/
5825.00	90.01	Ave.	199	1.6	V	15.19	105.20	/	/
5853.3	46.62	PK	292	1.5	H	13.94	61.53	110.8	49.27
5853.3	47.48	PK	89	1.4	V	13.94	61.33	110.8	49.47
5858	40.7	PK	240	1.9	H	13.94	55	105.2	50.2
5858	41.05	PK	215	1.5	V	13.94	55.81	105.2	49.39
5880	39.76	PK	111	1.5	H	13.94	54.66	68.2	13.54
5880	40.37	PK	186	1.6	V	13.94	54.29	68.2	13.91
11650	41.69	PK	96	1.6	V	28.49	70.18	74	3.82
11650	22.69	Ave.	160	1.5	V	28.49	51.18	54	2.82

802.11n20 mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5180 MHz (Chain0)									
170.6	42.79	QP	251	2.1	H	-7.7	35.09	43.5	8.41
5180.00	92.61	PK	93	2.3	H	13.89	106.50	/	/
5180.00	81.42	Ave.	93	2.3	H	13.89	95.31	/	/
5180.00	99.31	PK	166	1.1	V	13.89	113.20	/	/
5180.00	88.81	Ave.	166	1.1	V	13.89	102.70	/	/
5147.8	44.66	PK	213	1.9	H	13.97	58.63	74	15.37
5147.8	30.93	AV	213	1.9	H	13.97	44.9	54	9.1
10360	41.79	PK	336	1.9	H	24.74	66.53	74	7.47
10360	25.41	Ave.	336	1.9	H	24.74	50.15	54	3.85
5180 MHz (Chain 1)									
170.6	42.88	QP	38	2.1	H	-7.7	35.18	43.5	8.32
5180.00	91.85	PK	254	1.3	H	13.89	105.74	/	/
5180.00	80.97	Ave.	254	1.3	H	13.89	94.86	/	/
5180.00	99.57	PK	277	1.1	V	13.89	113.46	/	/
5180.00	89.24	Ave.	277	1.1	V	13.89	103.13	/	/
5147.8	45.52	PK	285	1.6	H	13.97	59.49	74	14.51
5147.8	31.93	AV	285	1.6	H	13.97	45.9	54	8.1
10360	42.78	PK	158	1.2	H	24.74	67.52	74	6.48
10360	26.04	Ave.	158	1.2	H	24.74	50.78	54	3.22
5180 MHz (Chain 2)									
170.6	42.97	QP	47	2.1	H	-7.7	35.27	43.5	8.23
5180.00	90.51	PK	50	1.5	H	13.89	104.40	/	/
5180.00	80.24	Ave.	50	1.5	H	13.89	94.13	/	/
5180.00	98.57	PK	245	1.1	V	13.89	112.46	/	/
5180.00	88.61	Ave.	245	1.1	V	13.89	102.50	/	/
5147.8	46.46	PK	202	2	H	13.97	60.43	74	13.57
5147.8	31.93	AV	202	2	H	13.97	45.9	54	8.1
10360	42.55	PK	2	1.1	H	24.74	67.29	74	6.71
10360	25.49	Ave.	2	1.1	H	24.74	50.23	54	3.77
5180 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.95	QP	102	2.1	H	-7.7	35.25	43.5	8.25
5180.00	92.61	PK	260	1.6	H	13.89	106.50	/	/
5180.00	81.42	Ave.	260	1.6	H	13.89	95.31	/	/
5180.00	104.33	PK	168	1.2	V	13.89	118.22	/	/
5180.00	93.67	Ave.	168	1.2	V	13.89	107.56	/	/
5147.8	47.55	PK	272	1.7	H	13.97	61.52	74	12.48
5147.8	33.39	AV	272	1.7	H	13.97	47.36	54	6.64
10360	40.73	PK	224	2.3	H	24.74	65.47	74	8.53
10360	25.76	Ave.	224	2.3	H	24.74	50.50	54	3.50

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5200 MHz (Chain 0)									
170.6	43.55	QP	63	1.1	H	-7.7	35.85	43.5	7.65
5200.00	90.87	PK	28	2.0	H	13.89	104.76	/	/
5200.00	80.27	Ave.	28	2.0	H	13.89	94.16	/	/
5200.00	99.24	PK	68	1.5	V	13.89	113.13	/	/
5200.00	88.91	Ave.	68	1.5	V	13.89	102.80	/	/
10400	39.76	PK	143	2.1	H	24.74	64.50	74	9.50
10400	23.01	Ave.	143	2.1	H	24.74	47.75	54	6.25
5200 MHz (Chain 1)									
170.6	43.13	QP	79	2.1	H	-7.7	35.43	43.5	8.07
5200.00	91.38	PK	192	1.6	H	13.89	105.27	/	/
5200.00	80.64	Ave.	192	1.6	H	13.89	94.53	/	/
5200.00	99.84	PK	15	1.7	V	13.89	113.73	/	/
5200.00	89.10	Ave.	15	1.7	V	13.89	102.99	/	/
10400	40.76	PK	311	1.5	H	24.74	65.50	74	8.50
10400	23.54	Ave.	311	1.5	H	24.74	48.28	54	5.72
5200 MHz (Chain 2)									
170.6	42.75	QP	63	2.1	H	-7.7	35.05	43.5	8.45
5200.00	90.95	PK	185	2.2	H	13.89	104.84	/	/
5200.00	80.19	Ave.	185	2.2	H	13.89	94.08	/	/
5200.00	98.49	PK	136	2.2	V	13.89	112.38	/	/
5200.00	87.95	Ave.	136	2.2	V	13.89	101.84	/	/
10400	40.84	PK	177	2.1	H	24.74	65.58	74	8.42
10400	23.58	Ave.	177	2.1	H	24.74	48.32	54	5.68
5200 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.78	QP	82	2.1	H	-7.7	35.08	43.5	8.42
5200.00	92.47	PK	105	1.1	H	13.89	106.36	/	/
5200.00	81.67	Ave.	105	1.1	H	13.89	95.56	/	/
5200.00	104.37	PK	87	1.2	V	13.89	118.26	/	/
5200.00	92.19	Ave.	87	1.2	V	13.89	106.08	/	/
10400	40.8	PK	179	1.3	H	24.74	65.54	74	8.46
10400	25.52	Ave.	179	1.3	H	24.74	50.26	54	3.74

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5240 MHz (Chain 0)									
170.6	43.39	QP	77	2.1	H	-7.7	35.69	43.5	7.81
5240.00	91.95	PK	116	1.7	H	13.89	105.84	/	/
5240.00	80.57	Ave.	116	1.7	H	13.89	94.46	/	/
5240.00	98.35	PK	320	1.4	V	13.89	112.24	/	/
5240.00	87.95	Ave.	320	1.4	V	13.89	101.84	/	/
5352.3	41.25	PK	222	1.5	H	13.94	55.19	74	18.81
5352.3	29.3	Ave	222	1.5	H	13.94	43.19	54	10.81
10480	36.47	PK	340	2.1	H	24.74	61.21	74	12.79
10480	19.92	Ave.	340	2.1	H	24.74	44.66	54	9.34
5240 MHz (Chain 1)									
170.6	43.42	QP	22	2.1	H	-7.7	35.72	43.5	7.78
5240.00	90.78	PK	9	1.2	H	13.89	104.67	/	/
5240.00	80.37	Ave.	9	1.2	H	13.89	94.26	/	/
5240.00	98.84	PK	348	2.1	V	13.89	112.73	/	/
5240.00	87.91	Ave.	348	2.1	V	13.89	101.80	/	/
5352.3	41	PK	181	1.8	V	13.94	54.62	74	19.38
5352.3	27.94	Ave	181	1.8	V	13.94	41.88	54	12.12
10480	38.46	PK	37	2.5	H	24.74	63.20	74	10.80
10480	21.3	Ave.	37	2.5	H	24.74	46.04	54	7.96
5240 MHz (Chain 2)									
170.6	43.34	QP	57	2.1	H	-7.7	35.64	43.5	7.86
5240.00	91.84	PK	141	2.0	H	13.89	105.73	/	/
5240.00	80.94	Ave.	141	2.0	H	13.89	94.83	/	/
5240.00	98.75	PK	268	1.1	V	13.89	112.64	/	/
5240.00	88.17	Ave.	268	1.1	V	13.89	102.06	/	/
5352.3	41.82	PK	219	1.2	V	13.94	55.76	74	18.24
5352.3	28.93	Ave	219	1.2	V	13.94	42.87	54	11.13
10480	39.29	PK	231	1.7	H	24.74	64.03	74	9.97
10480	23.44	Ave.	231	1.7	H	24.74	48.18	54	5.82
5240 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	43.6	QP	63	1.1	H	-7.7	35.9	43.5	7.6
5240.00	90.81	PK	88	1.3	H	13.89	104.70	/	/
5240.00	80.27	Ave.	88	1.3	H	13.89	94.16	/	/
5240.00	102.63	PK	9	1.2	V	13.89	116.52	/	/
5240.00	92.12	Ave.	9	1.2	V	13.89	106.01	/	/
5352.3	43.19	PK	168	2	V	13.94	57.13	74	16.87
5352.3	29.74	Ave	168	2	V	13.94	43.68	54	10.32
10480	40.63	PK	305	1.2	H	24.74	65.37	74	8.63
10480	25.56	Ave.	305	1.2	H	24.74	50.30	54	3.70

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5745 MHz (Chain 0)									
170.6	42.65	QP	105	2.1	H	-7.7	34.95	43.5	8.55
5745.00	86.76	PK	80	1.4	H	15.54	102.30	/	/
5745.00	76.57	Ave.	80	1.4	H	15.54	92.11	/	/
5745.00	96.82	PK	197	2.4	V	15.54	112.36	/	/
5745.00	85.98	Ave.	197	2.4	V	15.54	101.52	/	/
5724.5	43.01	PK	204	1.2	H	13.94	56.95	110.8	53.85
5724.5	43.9	PK	157	1.3	V	13.94	57.84	110.8	52.96
5716.1	39.68	PK	52	1.5	H	13.94	53.62	105.2	51.58
5716.1	38.28	PK	175	1.8	V	13.94	52.22	105.2	52.98
5697.9	37.42	PK	131	1.7	H	13.94	51.36	68.2	16.84
5697.9	38.75	PK	208	1.6	V	13.94	52.69	68.2	15.51
11490	37.33	PK	158	1.9	H	27.36	64.69	74	9.31
11490	18.32	Ave.	158	1.9	H	27.36	45.68	54	8.32
5745 MHz (Chain 1)									
170.6	42.38	QP	274	2.1	H	-7.7	34.68	43.5	8.82
5745.00	86.79	PK	290	2.0	H	15.54	102.33	/	/
5745.00	76.27	Ave.	290	2.0	H	15.54	91.81	/	/
5745.00	96.57	PK	231	2.5	V	15.54	112.11	/	/
5745.00	86.49	Ave.	231	2.5	V	15.54	102.03	/	/
5724.5	42.13	PK	120	2.2	H	13.94	56.07	110.8	54.73
5724.5	42.77	PK	249	1.5	V	13.94	56.71	110.8	54.09
5716.1	39.82	PK	274	1.8	H	13.94	53.76	105.2	51.44
5716.1	38.08	PK	192	2.2	V	13.94	52.02	105.2	53.18
5697.9	36.76	PK	225	1.4	H	13.94	50.7	68.2	17.5
5697.9	37.38	PK	196	1.3	V	13.94	51.32	68.2	16.88
11490	37.69	PK	129	1.6	H	27.36	65.05	74	8.95
11490	19.2	Ave.	129	1.6	H	27.36	46.56	54	7.44

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5745 MHz (Chain 2)									
170.6	42.61	QP	114	2.1	H	-7.7	34.91	43.5	8.59
5745.00	86.75	PK	48	2.2	H	15.54	102.29	/	/
5745.00	76.19	Ave.	48	2.2	H	15.54	91.73	/	/
5745.00	96.78	PK	186	1.7	V	15.54	112.32	/	/
5745.00	86.27	Ave.	186	1.7	V	15.54	101.81	/	/
5724.5	44.58	PK	168	1.7	H	13.94	58.52	110.8	52.28
5724.5	42.45	PK	115	1.3	V	13.94	56.39	110.8	54.41
5716.1	39.43	PK	80	1.7	H	13.94	53.37	105.2	51.83
5716.1	39.05	PK	221	1.5	V	13.94	52.99	105.2	52.21
5697.9	36.32	PK	250	1.3	H	13.94	50.26	68.2	17.94
5697.9	36.69	PK	255	1.2	V	13.94	50.63	68.2	17.57
11490	37.69	PK	180	2.3	H	27.36	65.05	74	8.95
11490	19.2	Ave.	180	2.3	H	27.36	46.56	54	7.44
5745 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.55	QP	57	2.1	H	-7.7	34.85	43.5	8.65
5745.00	88.47	PK	155	2.4	H	15.54	104.01	/	/
5745.00	77.68	Ave.	155	2.4	H	15.54	93.22	/	/
5745.00	101.18	PK	13	2.2	V	15.54	116.72	/	/
5745.00	91.01	Ave.	13	2.2	V	15.54	106.55	/	/
5724.5	45.96	PK	209	1.3	H	13.94	59.9	110.8	50.9
5724.5	46.19	PK	225	1.3	V	13.94	60.13	110.8	50.67
5716.1	41.19	PK	275	1.9	H	13.94	55.13	105.2	50.07
5716.1	40.73	PK	237	1.9	V	13.94	54.67	105.2	50.53
5697.9	40.09	PK	243	1.2	H	13.94	54.03	68.2	14.17
5697.9	40.43	PK	208	2.1	V	13.94	54.37	68.2	13.83
11490	40.41	PK	326	1.1	H	27.36	67.77	74	6.23
11490	23.59	Ave.	326	1.1	H	27.36	50.95	54	3.05

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5785 MHz (Chain 0)									
170.6	42.67	QP	152	1.1	H	-7.7	34.97	43.5	8.53
5785.00	86.84	PK	42	1.2	H	15.19	102.03	/	/
5785.00	77.96	Ave.	42	1.2	H	15.19	93.15	/	/
5785.00	96.47	PK	122	1.6	V	15.19	111.66	/	/
5785.00	85.68	Ave.	122	1.6	V	15.19	100.87	/	/
11570	36.47	PK	308	1.2	H	28.49	64.96	74	9.04
11570	19.37	Ave.	308	1.2	H	28.49	47.86	54	6.14
5785 MHz (Chain 1)									
170.6	42.06	QP	20	1.1	H	-7.7	34.36	43.5	9.14
5785.00	85.68	PK	28	1.1	H	15.19	100.87	/	/
5785.00	75.39	Ave.	28	1.1	H	15.19	90.58	/	/
5785.00	97.97	PK	144	1.9	V	15.19	113.16	/	/
5785.00	87.53	Ave.	144	1.9	V	15.19	102.72	/	/
11570	37.56	PK	186	1.2	H	28.49	66.05	74	7.95
11570	18.88	Ave.	186	1.2	H	28.49	47.37	54	6.63
5785 MHz (Chain 2)									
170.6	42.16	QP	196	2.1	H	-7.7	34.46	43.5	9.04
5785.00	86.98	PK	243	1.4	H	15.19	102.17	/	/
5785.00	76.59	Ave.	243	1.4	H	15.19	91.78	/	/
5785.00	97.66	PK	122	1.7	V	15.19	112.85	/	/
5785.00	86.92	Ave.	122	1.7	V	15.19	102.11	/	/
11570	38.51	PK	44	1.0	H	28.49	67.00	74	7.00
11570	19.32	Ave.	44	1.0	H	28.49	47.81	54	6.19
5785 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.24	QP	63	2.1	H	-7.7	34.54	43.5	8.96
5785.00	88.49	PK	120	2.2	H	15.19	103.68	/	/
5785.00	87.95	Ave.	120	2.2	H	15.19	103.14	/	/
5785.00	101.46	PK	298	1.0	V	15.19	116.65	/	/
5785.00	90.83	Ave.	298	1.0	V	15.19	106.02	/	/
11570	40.62	PK	324	2.3	H	28.49	69.11	74	4.89
11570	23.39	Ave.	324	2.3	H	28.49	51.88	54	2.12

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5825 MHz (Chain 0)									
170.6	42.45	QP	308	2.1	H	-7.7	34.75	43.5	8.75
5825.00	85.91	PK	4	2.0	H	15.19	101.10	/	/
5825.00	75.39	Ave.	4	2.0	H	15.19	90.58	/	/
5825.00	96.87	PK	222	1.7	V	15.19	112.06	/	/
5825.00	86.28	Ave.	222	1.7	V	15.19	101.47	/	/
5852.4	44.44	PK	72	1.6	H	13.94	58.38	110.8	52.42
5852.4	46.28	PK	151	1.3	V	13.94	60.22	110.8	50.58
5856.3	38.38	PK	199	1.3	H	13.94	52.32	105.2	52.88
5856.3	39.28	PK	187	1.3	V	13.94	53.22	105.2	51.98
5876.4	36.82	PK	74	1.7	H	13.94	50.76	68.2	17.44
5876.4	38.08	PK	54	2	V	13.94	52.02	68.2	16.18
11650	34.45	PK	346	1.1	H	28.49	62.94	74	11.06
11650	19.21	Ave.	346	1.1	H	28.49	47.70	54	6.30
5825 MHz (Chain 1)									
170.6	42.02	QP	201	2.1	H	-7.7	34.32	43.5	9.18
5825.00	86.21	PK	271	1.9	H	15.19	101.40	/	/
5825.00	75.59	Ave.	271	1.9	H	15.19	90.78	/	/
5825.00	96.82	PK	293	1.5	V	15.19	112.01	/	/
5825.00	86.38	Ave.	293	1.5	V	15.19	101.57	/	/
5852.4	44.43	PK	208	1.8	H	13.94	58.37	110.8	52.43
5852.4	44.34	PK	270	2.1	V	13.94	58.28	110.8	52.52
5856.3	37.57	PK	230	1.3	H	13.94	51.51	105.2	53.69
5856.3	38.62	PK	50	1.3	V	13.94	52.56	105.2	52.64
5876.4	39.38	PK	244	1.6	H	13.94	53.32	68.2	14.88
5876.4	39.32	PK	73	1.2	V	13.94	53.26	68.2	14.94
11650	37.67	PK	301	1.5	H	28.49	66.16	74	7.84
11650	19.28	Ave.	301	1.5	H	28.49	47.77	54	6.23

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5825 MHz (Chain 2)									
170.6	42.06	QP	7	2.1	H	-7.7	34.36	43.5	9.14
5825.00	86.76	PK	168	1.1	H	15.19	101.95	/	/
5825.00	76.37	Ave.	168	1.1	H	15.19	91.56	/	/
5825.00	97.54	PK	41	2.0	V	15.19	112.73	/	/
5825.00	86.98	Ave.	41	2.0	V	15.19	102.17	/	/
5852.4	44.65	PK	205	1.7	H	13.94	58.59	110.8	52.21
5852.4	45.38	PK	294	2.1	V	13.94	59.32	110.8	51.48
5856.3	38.57	PK	272	1.4	H	13.94	52.51	105.2	52.69
5856.3	38.31	PK	210	1.4	V	13.94	52.25	105.2	52.95
5876.4	39.06	PK	85	1.4	H	13.94	53	68.2	15.2
5876.4	38.43	PK	159	1.2	V	13.94	52.37	68.2	15.83
11650	39.81	PK	159	1.7	H	28.49	68.30	74	5.70
11650	21.28	Ave.	159	1.7	H	28.49	49.77	54	4.23
5825 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.12	QP	63	2.1	H	-7.7	34.42	43.5	9.08
5825.00	87.78	PK	54	1.1	H	15.19	102.97	/	/
5825.00	77.51	Ave.	54	1.1	H	15.19	92.70	/	/
5825.00	100.25	PK	356	1.1	V	15.19	115.44	/	/
5825.00	89.62	Ave.	356	1.1	V	15.19	104.81	/	/
5852.4	47.59	PK	292	1.5	H	13.94	61.53	110.8	49.27
5852.4	47.39	PK	89	1.4	V	13.94	61.33	110.8	49.47
5856.3	41.06	PK	240	1.9	H	13.94	55	105.2	50.2
5856.3	41.87	PK	215	1.5	V	13.94	55.81	105.2	49.39
5876.4	40.72	PK	111	1.5	H	13.94	54.66	68.2	13.54
5876.4	40.35	PK	186	1.6	V	13.94	54.29	68.2	13.91
5852.4	47.59	PK	292	1.5	H	13.94	61.53	110.8	49.27
11650	40.45	PK	87	1.4	H	28.49	68.94	74	5.06
11650	23.06	Ave.	87	1.4	H	28.49	51.55	54	2.45

802.11n40 mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5190 MHz (Chain 0)									
170.6	42.03	QP	85	2.1	H	-7.7	34.33	43.5	9.17
5190.00	83.43	PK	284	2.3	H	13.89	97.32	/	/
5190.00	73.08	Ave.	284	2.3	H	13.89	86.97	/	/
5190.00	94.86	PK	107	2.1	V	13.89	108.75	/	/
5190.00	84.62	Ave.	107	2.1	V	13.89	98.51	/	/
5144.9	46.46	PK	235	1.3	H	13.97	60.43	74	13.57
5144.9	32.85	AV	235	1.3	H	13.97	46.82	54	7.18
10380	34.44	PK	309	1.3	H	24.74	59.18	74	14.82
10380	17.59	Ave.	309	1.3	H	24.74	42.33	54	11.67
5190 MHz (Chain 1)									
170.6	42.82	QP	251	1.2	H	-7.7	35.12	43.5	8.38
5190.00	84.62	PK	325	2.4	H	13.89	98.51	/	/
5190.00	73.83	Ave.	325	2.4	H	13.89	87.72	/	/
5190.00	95.38	PK	146	1.7	V	13.89	109.27	/	/
5190.00	84.92	Ave.	146	1.7	V	13.89	98.81	/	/
5144.9	44.7	PK	298	1.6	H	13.97	58.67	74	15.33
5144.9	31.58	AV	298	1.6	H	13.97	45.55	54	8.45
10380	35.33	PK	225	2.4	H	24.74	60.07	74	13.93
10380	17.39	Ave.	225	2.4	H	24.74	42.13	54	11.87
5190 MHz (Chain 2)									
170.6	42.71	QP	213	1.1	H	-7.7	35.01	43.5	8.49
5190.00	84.82	PK	292	2.3	H	13.89	98.71	/	/
5190.00	74.23	Ave.	292	2.3	H	13.89	88.12	/	/
5190.00	95.42	PK	95	2.2	V	13.89	109.31	/	/
5190.00	84.79	Ave.	95	2.2	V	13.89	98.68	/	/
5144.9	46.52	PK	222	1.9	H	13.97	60.49	74	13.51
5144.9	31.89	AV	222	1.9	H	13.97	45.86	54	8.14
10380	35.54	PK	348	1.4	H	24.74	60.28	74	13.72
10380	17.58	Ave.	348	1.4	H	24.74	42.32	54	11.68
5190 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	41.84	QP	74	1.1	H	-7.7	34.14	43.5	9.36
5190.00	87.69	PK	32	2.2	H	13.89	101.58	/	/
5190.00	76.84	Ave.	32	2.2	H	13.89	90.73	/	/
5190.00	99.69	PK	110	2.3	V	13.89	113.58	/	/
5190.00	88.35	Ave.	110	2.3	V	13.89	102.24	/	/
5144.9	47.66	PK	178	1.9	H	13.97	61.63	74	12.37
5144.9	35.02	AV	178	1.9	H	13.97	48.99	54	5.01
10380	35.19	PK	286	1.4	H	24.74	59.93	74	14.07
10380	18.55	Ave.	286	1.4	H	24.74	43.29	54	10.71

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5230 MHz (Chain 0)									
170.6	42.74	QP	207	2.1	H	-7.7	35.04	43.5	8.46
5230.00	85.95	PK	257	2.5	H	13.89	99.84	/	/
5230.00	74.68	Ave.	257	2.5	H	13.89	88.57	/	/
5230.00	95.86	PK	23	1.7	V	13.89	109.75	/	/
5230.00	85.21	Ave.	23	1.7	V	13.89	99.10	/	/
5354.5	40.79	PK	236	1.5	H	13.94	54.73	74	19.27
5354.5	29.8	Ave	236	1.5	H	13.94	43.69	54	10.31
10460	36.31	PK	107	2.3	H	24.74	61.05	74	12.95
10460	19.57	Ave.	107	2.3	H	24.74	44.31	54	9.69
5230 MHz (Chain 1)									
170.6	42.85	QP	12	2.1	H	-7.7	35.15	43.5	8.35
5230.00	85.67	PK	132	1.7	H	13.89	99.56	/	/
5230.00	75.12	Ave.	132	1.7	H	13.89	89.01	/	/
5230.00	95.76	PK	201	2.4	V	13.89	109.65	/	/
5230.00	85.37	Ave.	201	2.4	V	13.89	99.26	/	/
5354.5	41	PK	176	1.8	V	13.94	54.66	74	19.34
5354.5	27.53	Ave	176	1.8	V	13.94	41.47	54	12.53
10460	36.66	PK	319	1.1	H	24.74	61.40	74	12.60
10460	20.22	Ave.	319	1.1	H	24.74	44.96	54	9.04
5230 MHz (Chain 2)									
170.6	41.86	QP	78	2.1	H	-7.7	34.16	43.5	9.34
5230.00	85.92	PK	319	2.3	H	13.89	99.81	/	/
5230.00	75.38	Ave.	319	2.3	H	13.89	89.27	/	/
5230.00	95.29	PK	86	1.4	V	13.89	109.18	/	/
5230.00	74.81	Ave.	86	1.4	V	13.89	88.70	/	/
5354.5	40.78	PK	250	2	V	13.94	54.72	74	19.28
5354.5	28.08	Ave	250	2	V	13.94	42.02	54	11.98
10460	35.69	PK	285	2.0	H	24.74	60.43	74	13.57
10460	20.33	Ave.	285	2.0	H	24.74	45.07	54	8.93
5230 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.35	QP	104	2.1	H	-7.7	34.65	43.5	8.85
5230.00	87.96	PK	75	1.8	H	13.89	101.85	/	/
5230.00	77.68	Ave.	75	1.8	H	13.89	91.57	/	/
5230.00	99.81	PK	150	1.8	V	13.89	113.70	/	/
5230.00	89.38	Ave.	150	1.8	V	13.89	103.27	/	/
5354.5	43.55	PK	178	1.7	V	13.94	57.49	74	16.51
5354.5	32.18	Ave	178	1.7	V	13.94	46.12	54	7.88
10460	37.87	PK	201	1.1	H	24.74	62.61	74	11.39
10460	24.96	Ave.	201	1.1	H	24.74	49.70	54	4.30

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5755 MHz (Chain 0)									
170.6	42.3	QP	99	2.1	H	-7.7	34.6	43.5	8.9
5755.00	84.62	PK	303	2.1	H	15.19	99.81	/	/
5755.00	74.23	Ave.	303	2.1	H	15.19	89.42	/	/
5755.00	94.82	PK	342	1.3	V	15.19	110.01	/	/
5755.00	84.17	Ave.	342	1.3	V	15.19	99.36	/	/
5723	43.3	PK	257	1.4	H	13.94	57.24	110.8	53.56
5723	42.21	PK	156	1.3	V	13.94	56.15	110.8	54.65
5718.6	38.54	PK	138	1.5	H	13.94	52.48	105.2	52.72
5718.6	38	PK	262	1.6	V	13.94	51.94	105.2	53.26
5697.1	36.67	PK	239	1.3	H	13.94	50.61	68.2	17.59
5697.1	38.73	PK	299	1.9	V	13.94	52.67	68.2	15.53
11510	36.34	PK	280	2.2	H	27.36	63.70	74	10.30
11510	20.05	Ave.	280	2.2	H	27.36	47.41	54	6.59
5755 MHz (Chain 1)									
170.6	42.03	QP	23	2.1	H	-7.7	34.33	43.5	9.17
5755.00	84.93	PK	157	1.7	H	15.19	100.12	/	/
5755.00	74.62	Ave.	157	1.7	H	15.19	89.81	/	/
5755.00	94.76	PK	285	1.7	V	15.19	109.95	/	/
5755.00	84.92	Ave.	285	1.7	V	15.19	100.11	/	/
5723	43.51	PK	120	1.9	H	13.94	57.45	110.8	53.35
5723	42.48	PK	190	1.9	V	13.94	56.42	110.8	54.38
5718.6	39.82	PK	252	2.1	H	13.94	53.76	105.2	51.44
5718.6	38.43	PK	140	1.5	V	13.94	52.37	105.2	52.83
5697.1	36.24	PK	178	2	H	13.94	50.18	68.2	18.02
5697.1	36.8	PK	214	1.4	V	13.94	50.74	68.2	17.46
11510	37.73	PK	228	1.2	H	27.36	65.09	74	8.91
11510	21.22	Ave.	228	1.2	H	27.36	48.58	54	5.42

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5755 MHz (Chain 2)									
170.6	42.45	QP	57	2.1	H	-7.7	34.75	43.5	8.75
5755.00	84.84	PK	238	2.1	H	15.19	100.03	/	/
5755.00	74.29	Ave.	238	2.1	H	15.19	89.48	/	/
5755.00	94.32	PK	358	1.6	V	15.19	109.51	/	/
5755.00	83.89	Ave.	358	1.6	V	15.19	99.08	/	/
5723	42.85	PK	190	2.1	H	13.94	56.79	110.8	54.01
5723	44.37	PK	111	1.8	V	13.94	58.31	110.8	52.49
5718.6	39.02	PK	258	2.2	H	13.94	52.96	105.2	52.24
5718.6	38.46	PK	52	1.8	V	13.94	52.4	105.2	52.8
5697.1	36.83	PK	54	2	H	13.94	50.77	68.2	17.43
5697.1	37.43	PK	64	2	V	13.94	51.37	68.2	16.83
11510	37.14	PK	245	1.2	H	27.36	64.50	74	9.50
11510	21.12	Ave.	245	1.2	H	27.36	48.48	54	5.52
5755 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.49	QP	104	2.1	H	-7.7	34.79	43.5	8.71
5755.00	86.85	PK	286	1.3	H	15.19	102.04	/	/
5755.00	76.38	Ave.	286	1.3	H	15.19	91.57	/	/
5755.00	98.23	PK	360	2.0	V	15.19	113.42	/	/
5755.00	87.94	Ave.	360	2.0	V	15.19	103.13	/	/
5723	45.95	PK	79	1.9	H	13.94	59.9	110.8	50.9
5723	45.64	PK	115	1.7	V	13.94	60.13	110.8	50.67
5718.6	41.31	PK	106	1.7	H	13.94	55.13	105.2	50.07
5718.6	41.59	PK	233	1.8	V	13.94	54.67	105.2	50.53
5697.1	39.07	PK	113	1.6	H	13.94	54.03	68.2	14.17
5697.1	39.98	PK	298	2	V	13.94	54.37	68.2	13.83
11510	36.84	PK	274	1.5	H	27.36	64.20	74	9.80
11510	22.56	Ave.	274	1.5	H	27.36	49.92	54	4.08

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5795 MHz (Chain 0)									
170.6	42.12	QP	207	1.1	H	-7.7	34.42	43.5	9.08
5795.00	84.97	PK	192	2.1	H	15.19	100.16	/	/
5795.00	74.38	Ave.	192	2.1	H	15.19	89.57	/	/
5795.00	94.86	PK	224	1.8	V	15.19	110.05	/	/
5795.00	84.94	Ave.	224	1.8	V	15.19	100.13	/	/
5850.3	42.4	PK	264	1.4	H	13.94	56.34	110.8	54.46
5850.3	45.79	PK	226	2	V	13.94	59.73	110.8	51.07
5859.3	38.52	PK	272	1.7	H	13.94	52.46	105.2	52.74
5859.3	38.18	PK	54	1.8	V	13.94	52.12	105.2	53.08
5880.5	36.86	PK	237	1.2	H	13.94	50.8	68.2	17.4
5880.5	37.05	PK	76	1.4	V	13.94	50.99	68.2	17.21
11590	36.58	PK	97	1.1	H	28.49	65.07	74	8.93
11590	18.29	Ave.	97	1.1	H	28.49	46.78	54	7.22
5795 MHz (Chain 1)									
170.6	41.98	QP	24	1.5	H	-7.7	34.28	43.5	9.22
5795.00	84.52	PK	250	1.1	H	15.19	99.71	/	/
5795.00	73.96	Ave.	250	1.1	H	15.19	89.15	/	/
5795.00	95.12	PK	19	2.1	V	15.19	110.31	/	/
5795.00	84.61	Ave.	19	2.1	V	15.19	99.80	/	/
5850.3	42.29	PK	121	1.5	H	13.94	56.23	110.8	54.57
5850.3	43.97	PK	172	2	V	13.94	57.91	110.8	52.89
5859.3	38.87	PK	293	1.5	H	13.94	52.81	105.2	52.39
5859.3	37.11	PK	121	1.5	V	13.94	51.05	105.2	54.15
5880.5	36.18	PK	153	1.6	H	13.94	50.12	68.2	18.08
5880.5	38.59	PK	203	1.6	V	13.94	52.53	68.2	15.67
11590	37.24	PK	77	2.3	H	28.49	65.73	74	8.27
11590	18.74	Ave.	77	2.3	H	28.49	47.23	54	6.77

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5795 MHz (Chain 2)									
170.6	41.98	QP	123	1.2	H	-7.7	34.28	43.5	9.22
5795.00	84.23	PK	92	1.5	H	15.19	99.42	/	/
5795.00	73.97	Ave.	92	1.5	H	15.19	89.16	/	/
5795.00	84.68	PK	169	1.5	V	15.19	99.87	/	/
5795.00	84.09	Ave.	169	1.5	V	15.19	99.28	/	/
5850.3	44.07	PK	259	2.1	H	13.94	58.01	110.8	52.79
5850.3	42.86	PK	100	1.5	V	13.94	56.8	110.8	54
5859.3	38.83	PK	125	1.5	H	13.94	52.77	105.2	52.43
5859.3	36.82	PK	199	1.6	V	13.94	50.76	105.2	54.44
5880.5	36.83	PK	239	1.5	H	13.94	50.77	68.2	17.43
5880.5	38.45	PK	124	1.6	V	13.94	52.39	68.2	15.81
11590	37.39	PK	316	1.3	H	28.49	65.88	74	8.12
11590	19.38	Ave.	316	1.3	H	28.49	47.87	54	6.13
5795 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	41.92	QP	152	1.4	H	-7.7	34.22	43.5	9.28
5795.00	86.95	PK	148	1.8	H	15.19	102.14	/	/
5795.00	76.27	Ave.	148	1.8	H	15.19	91.46	/	/
5795.00	98.68	PK	205	1.9	V	15.19	113.87	/	/
5795.00	88.29	Ave.	205	1.9	V	15.19	103.48	/	/
5850.3	46.23	PK	292	1.5	H	13.94	61.53	110.8	49.27
5850.3	46.79	PK	89	1.4	V	13.94	61.33	110.8	49.47
5859.3	40.82	PK	240	1.9	H	13.94	55	105.2	50.2
5859.3	40.76	PK	215	1.5	V	13.94	55.81	105.2	49.39
5880.5	39.27	PK	111	1.5	H	13.94	54.66	68.2	13.54
5880.5	40.54	PK	186	1.6	V	13.94	54.29	68.2	13.91
11590	37.35	PK	61	1.1	H	28.49	65.84	74	8.16
11590	21.57	Ave.	61	1.1	H	28.49	50.06	54	3.94

802.11ac20 mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5180 MHz (Chain 0)									
170.6	41.83	QP	101	2.1	H	-7.7	34.13	43.5	9.37
5180.00	91.75	PK	244	1.7	H	13.89	105.64	/	/
5180.00	81.36	Ave.	244	1.7	H	13.89	95.25	/	/
5180.00	99.21	PK	91	2.4	V	13.89	113.10	/	/
5180.00	88.59	Ave.	91	2.4	V	13.89	102.48	/	/
5148.8	45.2	PK	177	1.6	H	13.97	59.17	74	14.83
5148.8	30.59	AV	177	1.6	H	13.97	44.56	54	9.44
10360	35.72	PK	287	2.4	H	24.74	60.46	74	13.54
10360	20.37	Ave.	287	2.4	H	24.74	45.11	54	8.89
5180 MHz (Chain 1)									
170.6	41.99	QP	63	2.1	H	-7.7	34.29	43.5	9.21
5180.00	91.86	PK	15	1.9	H	13.89	105.75	/	/
5180.00	81.29	Ave.	15	1.9	H	13.89	95.18	/	/
5180.00	99.75	PK	340	1.5	V	13.89	113.64	/	/
5180.00	89.37	Ave.	340	1.5	V	13.89	103.26	/	/
5148.8	45.78	PK	274	2.2	H	13.97	59.75	74	14.25
5148.8	29.98	AV	274	2.2	H	13.97	43.95	54	10.05
10360	36.51	PK	239	1.0	H	24.74	61.25	74	12.75
10360	21.18	Ave.	239	1.0	H	24.74	45.92	54	8.08
5180 MHz (Chain 2)									
170.6	42.36	QP	21	2.1	H	-7.7	34.66	43.5	8.84
5180.00	91.57	PK	295	1.6	H	13.89	105.46	/	/
5180.00	80.94	Ave.	295	1.6	H	13.89	94.83	/	/
5180.00	99.64	PK	315	2.2	V	13.89	113.53	/	/
5180.00	89.08	Ave.	315	2.2	V	13.89	102.97	/	/
5148.8	46.52	PK	113	1.5	H	13.97	60.49	74	13.51
5148.8	31.2	AV	113	1.5	H	13.97	45.17	54	8.83
10360	37.62	PK	227	1.4	H	24.74	62.36	74	11.64
10360	22.19	Ave.	227	1.4	H	24.74	46.93	54	7.07
5180 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.4	QP	22	2.1	H	-7.7	34.7	43.5	8.8
5180.00	95.81	PK	105	1.0	H	13.89	109.70	/	/
5180.00	85.27	Ave.	105	1.0	H	13.89	99.16	/	/
5180.00	102.81	PK	208	1.2	V	13.89	116.70	/	/
5180.00	92.36	Ave.	208	1.2	V	13.89	106.25	/	/
5148.8	48.11	PK	266	1.6	H	13.97	62.08	74	11.92
5148.8	35.1	AV	266	1.6	H	13.97	49.07	54	4.93
10360	39.78	PK	274	1.9	H	24.74	64.52	74	9.48
10360	26.21	Ave.	274	1.9	H	24.74	50.95	54	3.05

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5200 MHz (Chain 0)									
170.6	42.54	QP	63	2.1	H	-7.7	34.84	43.5	8.66
5200.00	91.28	PK	284	1.1	H	13.89	105.17	/	/
5200.00	80.59	Ave.	284	1.1	H	13.89	94.48	/	/
5200.00	98.48	PK	190	1.5	V	13.89	112.37	/	/
5200.00	87.95	Ave.	190	1.5	V	13.89	101.84	/	/
10400	36.14	PK	229	2.2	H	24.74	60.88	74	13.12
10400	20.53	Ave.	229	2.2	H	24.74	45.27	54	8.73
5200 MHz (Chain 1)									
170.6	42.53	QP	63	1.1	H	-7.7	34.83	43.5	8.67
5200.00	91.72	PK	224	1.1	H	13.89	105.61	/	/
5200.00	81.49	Ave.	224	1.1	H	13.89	95.38	/	/
5200.00	99.76	PK	341	1.6	V	13.89	113.65	/	/
5200.00	89.74	Ave.	341	1.6	V	13.89	103.63	/	/
10400	36.45	PK	57	1.1	H	24.74	61.19	74	12.81
10400	22.36	Ave.	57	1.1	H	24.74	47.10	54	6.90
5200 MHz (Chain 2)									
170.6	42.56	QP	39	2.1	H	-7.7	34.86	43.5	8.64
5200.00	91.34	PK	71	1.2	H	13.89	105.23	/	/
5200.00	80.94	Ave.	71	1.2	H	13.89	94.83	/	/
5200.00	99.84	PK	211	1.6	V	13.89	113.73	/	/
5200.00	89.63	Ave.	211	1.6	V	13.89	103.52	/	/
10400	36.44	PK	144	2.3	H	24.74	61.18	74	12.82
10400	21.74	Ave.	144	2.3	H	24.74	46.48	54	7.52
5200 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.5	QP	33	2.1	H	-7.7	34.8	43.5	8.7
5200.00	95.86	PK	246	1.4	H	13.89	109.75	/	/
5200.00	85.29	Ave.	246	1.4	H	13.89	99.18	/	/
5200.00	102.58	PK	197	1.8	V	13.89	116.47	/	/
5200.00	92.17	Ave.	197	1.8	V	13.89	106.06	/	/
10400	40.09	PK	111	1.7	H	24.74	64.83	74	9.17
10400	25.9	Ave.	111	1.7	H	24.74	50.64	54	3.36

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5240 MHz (Chain 0)									
170.6	42.33	QP	85	2.1	H	-7.7	34.63	43.5	8.87
5240.00	91.95	PK	82	2.4	H	13.89	105.84	/	/
5240.00	81.57	Ave.	82	2.4	H	13.89	95.46	/	/
5240.00	99.86	PK	69	2.4	V	13.89	113.75	/	/
5240.00	89.49	Ave.	69	2.4	V	13.89	103.38	/	/
5351.2	41.5	PK	241	1.7	H	13.94	55.44	74	18.56
5351.2	27.6	Ave	241	1.7	H	13.94	41.52	54	12.48
10480	37.01	PK	226	1.2	H	24.74	61.75	74	12.25
10480	21.4	Ave.	226	1.2	H	24.74	46.14	54	7.86
5240 MHz (Chain 1)									
170.6	42.48	QP	47	2.1	H	-7.7	34.78	43.5	8.72
5240.00	91.86	PK	268	1.0	H	13.89	105.75	/	/
5240.00	81.29	Ave.	268	1.0	H	13.89	95.18	/	/
5240.00	99.42	PK	305	1.6	V	13.89	113.31	/	/
5240.00	88.75	Ave.	305	1.6	V	13.89	102.64	/	/
5351.2	41	PK	228	2.1	V	13.94	54.81	74	19.19
5351.2	27.8	Ave	228	2.1	V	13.94	41.74	54	12.26
10480	37.5	PK	7	1.2	H	24.74	62.24	74	11.76
10480	21.58	Ave.	7	1.2	H	24.74	46.32	54	7.68
5240 MHz (Chain 2)									
170.6	42.47	QP	203	1.1	H	-7.7	34.77	43.5	8.73
5240.00	91.67	PK	168	1.9	H	13.89	105.56	/	/
5240.00	81.05	Ave.	168	1.9	H	13.89	94.94	/	/
5240.00	99.27	PK	63	1.8	V	13.89	113.16	/	/
5240.00	88.58	Ave.	63	1.8	V	13.89	102.47	/	/
5351.2	41.92	PK	199	2.1	V	13.94	55.86	74	18.14
5351.2	28.22	Ave	199	2.1	V	13.94	42.16	54	11.84
10480	38.23	PK	255	1.4	H	24.74	62.97	74	11.03
10480	22.78	Ave.	255	1.4	H	24.74	47.52	54	6.48
5240MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.59	QP	327	1.1	H	-7.7	34.89	43.5	8.61
5240.00	95.98	PK	128	1.2	H	13.89	109.87	/	/
5240.00	85.67	Ave.	128	1.2	H	13.89	99.56	/	/
5240.00	102.94	PK	357	1.1	V	13.89	116.83	/	/
5240.00	92.86	Ave.	357	1.1	V	13.89	106.75	/	/
5351.2	43.55	PK	226	2.1	V	13.94	57.49	74	16.51
5351.2	32.18	Ave	226	2.1	V	13.94	46.12	54	7.88
10480	39.41	PK	20	2.2	H	24.74	64.15	74	9.85
10480	25.52	Ave.	20	2.2	H	24.74	50.26	54	3.74

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5745 MHz (Chain 0)									
170.6	42.68	QP	258	2.1	H	-7.7	34.98	43.5	8.52
5745.00	84.61	PK	307	2.2	H	15.54	100.15	/	/
5745.00	74.16	Ave.	307	2.2	H	15.54	89.70	/	/
5745.00	97.22	PK	10	2.4	V	15.54	112.76	/	/
5745.00	86.31	Ave.	10	2.4	V	15.54	101.85	/	/
5721.1	42.87	PK	271	1.8	H	13.94	56.81	110.8	53.99
5721.1	43.43	PK	296	1.8	V	13.94	57.37	110.8	53.43
5717.9	39.94	PK	208	1.2	H	13.94	53.88	105.2	51.32
5717.9	39.56	PK	125	2.1	V	13.94	53.5	105.2	51.7
5698.6	37.69	PK	294	1.6	H	13.94	51.63	68.2	16.57
5698.6	37.56	PK	58	1.6	V	13.94	51.5	68.2	16.7
11490	36.59	PK	350	1.2	H	27.36	63.95	74	10.05
11490	18.54	Ave.	350	1.2	H	27.36	45.90	54	8.10
5745 MHz (Chain 1)									
170.6	42.69	QP	77	2.1	H	-7.7	34.99	43.5	8.51
5745.00	85.24	PK	217	2.1	H	15.54	100.78	/	/
5745.00	74.61	Ave.	217	2.1	H	15.54	90.15	/	/
5745.00	98.56	PK	164	2.2	V	15.54	114.10	/	/
5745.00	86.94	Ave.	164	2.2	V	15.54	102.48	/	/
5721.1	44.35	PK	247	1.3	H	13.94	58.29	110.8	52.51
5721.1	43.34	PK	288	1.9	V	13.94	57.28	110.8	53.52
5717.9	39.34	PK	150	1.8	H	13.94	53.28	105.2	51.92
5717.9	37.84	PK	89	1.4	V	13.94	51.78	105.2	53.42
5698.6	36.19	PK	154	1.4	H	13.94	50.13	68.2	18.07
5698.6	38.28	PK	146	2.1	V	13.94	52.22	68.2	15.98
11490	37.45	PK	94	1.1	H	27.36	64.81	74	9.19
11490	19.59	Ave.	94	1.1	H	27.36	46.95	54	7.05

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5745 MHz (Chain 2)									
170.6	42.6	QP	108	1.1	H	-7.7	34.9	43.5	8.6
5745.00	84.83	PK	263	1.7	H	15.54	100.37	/	/
5745.00	74.58	Ave.	263	1.7	H	15.54	90.12	/	/
5745.00	97.94	PK	281	1.2	V	15.54	113.48	/	/
5745.00	87.24	Ave.	281	1.2	V	15.54	102.78	/	/
5721.1	41.85	PK	290	1.8	H	13.94	55.79	110.8	55.01
5721.1	44.37	PK	207	1.9	V	13.94	58.31	110.8	52.49
5717.9	37.1	PK	53	1.5	H	13.94	51.04	105.2	54.16
5717.9	38.74	PK	160	1.7	V	13.94	52.68	105.2	52.52
5698.6	37.88	PK	71	1.6	H	13.94	51.82	68.2	16.38
5698.6	36.6	PK	150	1.7	V	13.94	50.54	68.2	17.66
11490	38.37	PK	250	1.4	H	27.36	65.73	74	8.27
11490	20.89	Ave.	250	1.4	H	27.36	48.25	54	5.75
5745 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2									
170.6	42.15	QP	201	1.1	H	-7.7	34.45	43.5	9.05
5745.00	92.26	PK	43	2.1	H	15.54	107.80	/	/
5745.00	81.69	Ave.	43	2.1	H	15.54	97.23	/	/
5745.00	100.37	PK	316	1.6	V	15.54	115.91	/	/
5745.00	89.54	Ave.	316	1.6	V	15.54	105.08	/	/
5721.1	45.82	PK	75	2.1	H	13.94	59.9	110.8	50.9
5721.1	45.51	PK	227	1.8	V	13.94	60.13	110.8	50.67
5717.9	41.03	PK	121	2	H	13.94	55.13	105.2	50.07
5717.9	40.58	PK	90	1.2	V	13.94	54.67	105.2	50.53
5698.6	39.65	PK	225	1.9	H	13.94	54.03	68.2	14.17
5698.6	39.33	PK	194	1.9	V	13.94	54.37	68.2	13.83
11490	39.88	PK	56	1.7	H	27.36	67.24	74	6.76
11490	24.76	Ave.	56	1.7	H	27.36	52.12	54	1.88

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5785 MHz (Chain 0)									
170.6	42.22	QP	63	2.1	H	-7.7	34.52	43.5	8.98
5785.00	86.57	PK	117	2.2	H	15.19	101.76	/	/
5785.00	75.98	Ave.	117	2.2	H	15.19	91.17	/	/
5785.00	98.67	PK	352	1.4	V	15.19	113.86	/	/
5785.00	88.34	Ave.	352	1.4	V	15.19	103.53	/	/
11570	36.52	PK	314	1.4	H	28.49	65.01	74	8.99
11570	18.92	Ave.	314	1.4	H	28.49	47.41	54	6.59
5785 MHz (Chain 1)									
170.6	42.37	QP	83	1.1	H	-7.7	34.67	43.5	8.83
5785.00	85.95	PK	116	1.5	H	15.19	101.14	/	/
5785.00	75.29	Ave.	116	1.5	H	15.19	90.48	/	/
5785.00	98.27	PK	14	1.7	V	15.19	113.46	/	/
5785.00	87.63	Ave.	14	1.7	V	15.19	102.82	/	/
11570	36.61	PK	332	1.6	H	28.49	65.10	74	8.90
11570	18.7	Ave.	332	1.6	H	28.49	47.19	54	6.81
5785 MHz (Chain 2)									
170.6	42.09	QP	79	1.1	H	-7.7	34.39	43.5	9.11
5785.00	86.29	PK	222	1.4	H	15.19	101.48	/	/
5785.00	75.86	Ave.	222	1.4	H	15.19	91.05	/	/
5785.00	98.68	PK	113	1.5	V	15.19	113.87	/	/
5785.00	88.23	Ave.	113	1.5	V	15.19	103.42	/	/
11570	37.39	PK	81	2.3	H	28.49	65.88	74	8.12
11570	19.76	Ave.	81	2.3	H	28.49	48.25	54	5.75
5785 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.28	QP	75	2.1	H	-7.7	34.58	43.5	8.92
5785.00	92.68	PK	212	2.3	H	15.19	107.87	/	/
5785.00	82.31	Ave.	212	2.3	H	15.19	97.50	/	/
5785.00	102.39	PK	309	1.6	V	15.19	117.58	/	/
5785.00	92.17	Ave.	309	1.6	V	15.19	107.36	/	/
11570	38.51	PK	254	1.6	H	28.49	67.00	74	7.00
11570	22.76	Ave.	254	1.6	H	28.49	51.25	54	2.75

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5825 MHz (Chain 0)									
170.6	42.23	QP	127	2.1	H	-7.7	34.53	43.5	8.97
5825.00	85.95	PK	164	1.8	H	15.19	101.14	/	/
5825.00	75.38	Ave.	164	1.8	H	15.19	90.57	/	/
5825.00	98.69	PK	217	1.8	V	15.19	113.88	/	/
5825.00	88.25	Ave.	217	1.8	V	15.19	103.44	/	/
5850.5	42.94	PK	274	1.8	H	13.94	56.88	110.8	53.92
5850.5	42.73	PK	220	1.9	V	13.94	56.67	110.8	54.13
5860.2	39.14	PK	133	1.6	H	13.94	53.08	105.2	52.12
5860.2	36.36	PK	190	1.6	V	13.94	50.3	105.2	54.9
5879.4	38.28	PK	59	1.9	H	13.94	52.22	68.2	15.98
5879.4	36.74	PK	268	1.7	V	13.94	50.68	68.2	17.52
11650	36.16	PK	51	1.5	H	28.49	64.65	74	9.35
11650	19.06	Ave.	51	1.5	H	28.49	47.55	54	6.45
5825 MHz (Chain 1)									
170.6	42.19	QP	45	1.1	H	-7.7	34.49	43.5	9.01
5825.00	86.32	PK	257	1.9	H	15.19	101.51	/	/
5825.00	75.67	Ave.	257	1.9	H	15.19	90.86	/	/
5825.00	98.56	PK	295	1.8	V	15.19	113.75	/	/
5825.00	87.93	Ave.	295	1.8	V	15.19	103.12	/	/
5850.5	43.49	PK	295	1.3	H	13.94	57.43	110.8	53.37
5850.5	44.05	PK	297	1.9	V	13.94	57.99	110.8	52.81
5860.2	38.83	PK	194	2.1	H	13.94	52.77	105.2	52.43
5860.2	36.99	PK	181	1.8	V	13.94	50.93	105.2	54.27
5879.4	36.18	PK	124	2.2	H	13.94	50.12	68.2	18.08
5879.4	38.87	PK	118	1.2	V	13.94	52.81	68.2	15.39
11650	36.63	PK	19	1.3	H	28.49	65.12	74	8.88
11650	19.43	Ave.	19	1.3	H	28.49	47.92	54	6.08

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5825 MHz (Chain 2)									
170.6	41.93	QP	42	1.8	H	-7.7	34.23	43.5	9.27
5825.00	86.58	PK	257	1.8	H	15.19	101.77	/	/
5825.00	75.83	Ave.	257	1.8	H	15.19	91.02	/	/
5825.00	98.27	PK	74	1.4	V	15.19	113.46	/	/
5825.00	87.76	Ave.	74	1.4	V	15.19	102.95	/	/
5850.5	44.06	PK	67	1.8	H	13.94	58	110.8	52.8
5850.5	45.34	PK	66	2.1	V	13.94	59.28	110.8	51.52
5860.2	37.86	PK	272	1.9	H	13.94	51.8	105.2	53.4
5860.2	38.69	PK	280	1.6	V	13.94	52.63	105.2	52.57
5879.4	37.87	PK	140	1.4	H	13.94	51.81	68.2	16.39
5879.4	37	PK	253	1.5	V	13.94	50.94	68.2	17.26
11650	38.38	PK	183	2.5	H	28.49	66.87	74	7.13
11650	20.7	Ave.	183	2.5	H	28.49	49.19	54	4.81
5825 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	41.99	QP	11	1.1	H	-7.7	34.29	43.5	9.21
5825.00	93.82	PK	289	1.0	H	15.19	109.01	/	/
5825.00	83.02	Ave.	289	1.0	H	15.19	98.21	/	/
5825.00	102.21	PK	191	1.3	V	15.19	117.40	/	/
5825.00	91.53	Ave.	191	1.3	V	15.19	106.72	/	/
5850.5	46.27	PK	292	1.5	H	13.94	61.53	110.8	49.27
5850.5	46.7	PK	89	1.4	V	13.94	61.33	110.8	49.47
5860.2	40.53	PK	240	1.9	H	13.94	55	105.2	50.2
5860.2	40.06	PK	215	1.5	V	13.94	55.81	105.2	49.39
5879.4	39.63	PK	111	1.5	H	13.94	54.66	68.2	13.54
5879.4	40.43	PK	186	1.6	V	13.94	54.29	68.2	13.91
11650	39.06	PK	274	1.7	H	28.49	67.55	74	6.45
11650	22.56	Ave.	274	1.7	H	28.49	51.05	54	2.95

802.11ac40 mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5190 MHz (Chain 0)									
170.6	41.86	QP	92	1.2	H	-7.7	34.16	43.5	9.34
5190	89.23	PK	0	2.3	H	13.89	103.12	/	/
5190	75.45	Ave.	0	2.3	H	13.89	89.34	/	/
5190	98.28	PK	282	1.4	V	13.89	112.17	/	/
5190	84.49	Ave.	282	1.4	V	13.89	98.38	/	/
5147.8	44.93	PK	217	1.5	H	13.97	58.9	74	15.1
5147.8	31.52	AV	217	1.5	H	13.97	45.49	54	8.51
10380	36.51	PK	157	2.5	H	24.74	61.25	74	12.75
10380	19.3	Ave.	157	2.5	H	24.74	44.04	54	9.96
5190 MHz (Chain 1)									
170.6	42.11	QP	78	1.1	H	-7.7	34.41	43.5	9.09
5190	89.33	PK	325	1.7	H	13.89	103.22	/	/
5190	75.46	Ave.	325	1.7	H	13.89	89.35	/	/
5190	98.17	PK	174	2.1	V	13.89	112.06	/	/
5190	84.3	Ave.	174	2.1	V	13.89	98.19	/	/
5147.8	46.25	PK	250	1.8	H	13.97	60.22	74	13.78
5147.8	30.94	AV	250	1.8	H	13.97	44.91	54	9.09
10380	36.3	PK	63	1.9	H	24.74	61.04	74	12.96
10380	19.57	Ave.	63	1.9	H	24.74	44.31	54	9.69
5190 MHz (Chain 2)									
170.6	41.97	QP	307	1.1	H	-7.7	34.27	43.5	9.23
5190	89.7	PK	242	2.4	H	13.89	103.59	/	/
5190	76.33	Ave.	242	2.4	H	13.89	90.22	/	/
5190	99.53	PK	285	1.2	V	13.89	113.42	/	/
5190	86.56	Ave.	285	1.2	V	13.89	100.45	/	/
5147.8	45.72	PK	232	2.1	H	13.97	59.69	74	14.31
5147.8	30.5	AV	232	2.1	H	13.97	44.47	54	9.53
10380	36.63	PK	154	1.7	H	24.74	61.37	74	12.63
10380	19.87	Ave.	154	1.7	H	24.74	44.61	54	9.39
5190 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.45	QP	324	1.1	H	-7.7	34.75	43.5	8.75
5190	95.98	PK	305	2.0	H	13.89	109.87	/	/
5190	81.59	Ave.	305	2.0	H	13.89	95.48	/	/
5190	103.37	PK	155	2.2	V	13.89	117.26	/	/
5190	88.43	Ave.	155	2.2	V	13.89	102.32	/	/
5147.8	47.33	PK	161	1.9	H	13.97	61.3	74	12.7
5147.8	32.73	AV	161	1.9	H	13.97	46.7	54	7.3
10380	40.01	PK	268	1.8	H	24.74	64.75	74	9.25
10380	24.06	Ave.	268	1.8	H	24.74	48.80	54	5.20

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5230 MHz (Chain 0)									
170.6	42.25	QP	58	2.1	H	-7.7	34.55	43.5	8.95
5230	89.57	PK	340	2.5	H	13.89	103.46	/	/
5230	76.31	Ave.	340	2.5	H	13.89	90.20	/	/
5230	98.25	PK	41	1.9	V	13.89	112.14	/	/
5230	85.61	Ave.	41	1.9	V	13.89	99.50	/	/
5353.1	41.06	PK	205	1.6	H	13.94	55.00	74	19
5353.1	29.0	Ave	205	1.6	H	13.94	42.94	54	11.06
10460	37.11	PK	41	2.4	H	24.74	61.85	74	12.15
10460	21.81	Ave.	41	2.4	H	24.74	46.55	54	7.45
5230 MHz (Chain 1)									
170.6	42.2	QP	96	2.1	H	-7.7	34.5	43.5	9
5230	89.58	PK	2	2.4	H	13.89	103.47	/	/
5230	75.23	Ave.	2	2.4	H	13.89	89.12	/	/
5230	97.98	PK	318	2.2	V	13.89	111.87	/	/
5230	85.42	Ave.	318	2.2	V	13.89	99.31	/	/
10460	37.43	PK	92	1.3	H	24.74	62.17	74	11.83
5353.1	42	PK	293	1.4	V	13.94	56.36	74	17.64
5353.1	29.88	Ave	293	1.4	V	13.94	43.82	54	10.18
10460	22.71	Ave.	92	1.3	H	24.74	47.45	54	6.55
5230 MHz (Chain 2)									
170.6	41.88	QP	48	1.1	H	-7.7	34.18	43.5	9.32
5230	89.59	PK	55	1.3	H	13.89	103.48	/	/
5230	75.33	Ave.	55	1.3	H	13.89	89.22	/	/
5230	98.56	PK	114	1.4	V	13.89	112.45	/	/
5230	85.42	Ave.	114	1.4	V	13.89	99.31	/	/
5353.1	42.32	PK	157	1.5	V	13.94	56.26	74	17.74
5353.1	28.16	Ave	157	1.5	V	13.94	42.1	54	11.9
10460	38.3	PK	291	2.0	H	24.74	63.04	74	10.96
10460	22.66	Ave.	291	2.0	H	24.74	47.40	54	6.60
5230 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	41.89	QP	66	1.1	H	-7.7	34.19	43.5	9.31
5230	97.53	PK	146	2.3	H	13.89	111.42	/	/
5230	83.57	Ave.	146	2.3	H	13.89	97.46	/	/
5230	103.47	PK	94	1.3	V	13.89	117.36	/	/
5230	90.27	Ave.	94	1.3	V	13.89	104.16	/	/
5353.1	43.79	PK	234	1.8	V	13.94	57.73	74	16.27
5353.1	29.37	Ave	234	1.8	V	13.94	43.31	54	10.69
10460	39.44	PK	4	2.5	H	24.74	64.18	74	9.82
10460	25.49	Ave.	4	2.5	H	24.74	50.23	54	3.77

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5755 MHz (Chain 0)									
170.6	41.9	QP	35	1.1	H	-7.7	34.2	43.5	9.3
5755	89.32	PK	245	1.8	H	15.19	104.51	/	/
5755	77.16	Ave.	245	1.8	H	15.19	92.35	/	/
5755	97.55	PK	137	1.5	V	15.19	112.74	/	/
5755	82.5	Ave.	137	1.5	V	15.19	97.69	/	/
5721.1	42.1	PK	133	1.2	H	13.94	56.04	110.8	54.76
5721.1	43.29	PK	146	2.1	V	13.94	57.23	110.8	53.57
5717.9	37.07	PK	290	1.7	H	13.94	51.01	105.2	54.19
5717.9	37.41	PK	70	1.6	V	13.94	51.35	105.2	53.85
5698.6	38.55	PK	178	1.4	H	13.94	52.49	68.2	15.71
5698.6	37.41	PK	270	1.2	V	13.94	51.35	68.2	16.85
11510	36.59	PK	65	2.4	H	27.36	63.95	74	10.05
11510	19.21	Ave.	65	2.4	H	27.36	46.57	54	7.43
5755 MHz (Chain 1)									
170.6	42.56	QP	271	1.1	H	-7.7	34.86	43.5	8.64
5755	90.47	PK	77	1.3	H	15.19	105.66	/	/
5755	77.65	Ave.	77	1.3	H	15.19	92.84	/	/
5755	98.57	PK	229	1.7	V	15.19	113.76	/	/
5755	83.37	Ave.	229	1.7	V	15.19	98.56	/	/
5721.1	42.1	PK	261	1.3	H	13.94	56.04	110.8	54.76
5721.1	42.2	PK	76	2	V	13.94	56.14	110.8	54.66
5717.9	39.84	PK	147	1.9	H	13.94	53.78	105.2	51.42
5717.9	38.13	PK	118	2.1	V	13.94	52.07	105.2	53.13
5698.6	35.83	PK	106	1.2	H	13.94	49.77	68.2	18.43
5698.6	37.2	PK	129	1.3	V	13.94	51.14	68.2	17.06
11510	36.45	PK	295	1.6	H	27.36	63.81	74	10.19
11510	19.24	Ave.	295	1.6	H	27.36	46.60	54	7.40

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.407/205/209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
5755 MHz (Chain 2)									
170.6	42.01	QP	125	1.3	H	-7.7	34.31	43.5	9.19
5755	90.28	PK	19	2.3	H	15.19	105.47	/	/
5755	76.33	Ave.	19	2.3	H	15.19	91.52	/	/
5755	99.24	PK	236	2.2	V	15.19	114.43	/	/
5755	85.4	Ave.	236	2.2	V	15.19	100.59	/	/
5721.1	44.04	PK	229	1.9	H	13.94	57.98	110.8	52.82
5721.1	41.57	PK	184	1.9	V	13.94	55.51	110.8	55.29
5717.9	39.69	PK	192	2.2	H	13.94	53.63	105.2	51.57
5717.9	39.41	PK	221	2.1	V	13.94	53.35	105.2	51.85
5698.6	37.86	PK	136	1.5	H	13.94	51.8	68.2	16.4
5698.6	35.44	PK	178	2	V	13.94	49.38	68.2	18.82
11510	37.64	PK	57	1.5	H	27.36	65.00	74	9.00
11510	21.38	Ave.	57	1.5	H	27.36	48.74	54	5.26
5755 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	42.28	QP	57	1.2	H	-7.7	34.58	43.5	8.92
5755	97.49	PK	141	1.2	H	15.19	112.68	/	/
5755	83.43	Ave.	141	1.2	H	15.19	98.62	/	/
5755	103.23	PK	2	1.1	V	15.19	118.42	/	/
5755	85.4	Ave.	2	1.1	V	15.19	100.59	/	/
5721.1	45.82	PK	220	1.9	H	13.94	59.9	110.8	50.9
5721.1	45.51	PK	207	1.7	V	13.94	60.13	110.8	50.67
5717.9	41.03	PK	270	1.4	H	13.94	55.13	105.2	50.07
5717.9	40.58	PK	187	1.8	V	13.94	54.67	105.2	50.53
5698.6	39.65	PK	264	1.7	H	13.94	54.03	68.2	14.17
5698.6	39.33	PK	265	1.9	V	13.94	54.37	68.2	13.83
11510	39.21	PK	162	2.1	H	27.36	66.57	74	7.43
11510	22.7	Ave.	162	2.1	H	27.36	50.06	54	3.94

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5795 MHz (Chain 0)									
170.6	41.82	QP	201	1.2	H	-7.7	34.12	43.5	9.38
5795	90.21	PK	201	2.0	H	15.19	105.40	/	/
5795	76.38	Ave.	201	2.0	H	15.19	91.57	/	/
5795	99.34	PK	146	2.0	V	15.19	114.53	/	/
5795	85.52	Ave.	146	2.0	V	15.19	100.71	/	/
5850.5	45.1	PK	59	1.9	H	13.94	59.04	110.8	51.76
5850.5	43.33	PK	298	1.8	V	13.94	57.27	110.8	53.53
5860.2	38.57	PK	196	1.7	H	13.94	52.51	105.2	52.69
5860.2	36.31	PK	128	2.2	V	13.94	50.25	105.2	54.95
5879.4	37.31	PK	224	1.2	H	13.94	51.25	68.2	16.95
5879.4	38.83	PK	164	1.8	V	13.94	52.77	68.2	15.43
11590	38.16	PK	124	2.0	H	28.49	66.65	74	7.35
11590	19.17	Ave.	124	2.0	H	28.49	47.66	54	6.34
5795 MHz (Chain 1)									
170.6	42.22	QP	25	1.2	H	-7.7	34.52	43.5	8.98
5795	90.2	PK	60	2.1	H	15.19	105.39	/	/
5795	76.47	Ave.	60	2.1	H	15.19	91.66	/	/
5795	99.46	PK	130	1.8	V	15.19	114.65	/	/
5795	86.48	Ave.	130	1.8	V	15.19	101.67	/	/
5850.5	44.47	PK	286	2.2	H	13.94	58.41	110.8	52.39
5850.5	43.34	PK	141	1.5	V	13.94	57.28	110.8	53.52
5860.2	38.41	PK	85	1.6	H	13.94	52.35	105.2	52.85
5860.2	37.62	PK	87	2	V	13.94	51.56	105.2	53.64
5879.4	37.35	PK	53	2.2	H	13.94	51.29	68.2	16.91
5879.4	37.35	PK	84	1.9	V	13.94	51.29	68.2	16.91
11590	38.26	PK	203	1.6	H	28.49	66.75	74	7.25
11590	19.25	Ave.	203	1.6	H	28.49	47.74	54	6.26

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5795 MHz (Chain 2)									
170.6	41.55	QP	57	1.1	H	-7.7	33.85	43.5	9.65
5795	90.34	PK	173	1.8	H	15.19	105.53	/	/
5795	77.32	Ave.	173	1.8	H	15.19	92.51	/	/
5795	99.19	PK	148	1.2	V	15.19	114.38	/	/
5795	84.24	Ave.	148	1.2	V	15.19	99.43	/	/
5850.5	43.76	PK	168	1.9	H	13.94	57.7	110.8	53.1
5850.5	44.23	PK	180	1.6	V	13.94	58.17	110.8	52.63
5860.2	36.69	PK	109	1.7	H	13.94	50.63	105.2	54.57
5860.2	37.77	PK	187	2	V	13.94	51.71	105.2	53.49
5879.4	35.79	PK	191	1.6	H	13.94	49.73	68.2	18.47
5879.4	36.84	PK	272	1.4	V	13.94	50.78	68.2	17.42
11590	38.38	PK	211	2.3	H	28.49	66.87	74	7.13
11590	19.56	Ave.	211	2.3	H	28.49	48.05	54	5.95
5795 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	41.67	QP	224	1.1	H	-7.7	33.97	43.5	9.53
5795	97.2	PK	32	1.8	H	15.19	112.39	/	/
5795	82.3	Ave.	32	1.8	H	15.19	97.49	/	/
5795	104.55	PK	210	2.0	V	15.19	119.74	/	/
5795	89.74	Ave.	210	2.0	V	15.19	104.93	/	/
5850.5	46.27	PK	60	1.9	H	13.94	59.9	110.8	50.9
5850.5	46.7	PK	226	2.2	V	13.94	60.13	110.8	50.67
5860.2	40.53	PK	190	1.4	H	13.94	55.13	105.2	50.07
5860.2	40.06	PK	206	1.3	V	13.94	54.67	105.2	50.53
5879.4	39.63	PK	152	1.5	H	13.94	54.03	68.2	14.17
5879.4	40.43	PK	58	1.3	V	13.94	54.37	68.2	13.83
11590	39.48	PK	190	2.3	H	28.49	67.97	74	6.03
11590	22.47	Ave.	190	2.3	H	28.49	50.96	54	3.04

802.11ac80 mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5210 MHz (Chain 0)									
170.6	41.55	QP	310	1.1	H	-7.7	33.85	43.5	9.65
5210	89.26	PK	337	1.1	H	13.89	103.15	/	/
5210	75.31	Ave.	337	1.1	H	13.89	89.20	/	/
5210	97.57	PK	352	2.2	V	13.89	111.46	/	/
5210	83.52	Ave.	352	2.2	V	13.89	97.41	/	/
5145.5	45.46	PK	175	1.9	H	13.97	59.43	74	14.57
5145.5	29.65	AV	175	1.9	H	13.97	43.62	54	10.38
5352.7	42.37	PK	262	1.8	H	13.94	56.31	74	17.69
5352.7	31.3	Ave	262	1.8	H	13.94	45.23	54	8.77
10420	36.45	PK	78	1.2	H	24.74	61.19	74	12.81
10420	19.44	Ave.	78	1.2	H	24.74	44.18	54	9.82
5210 MHz (Chain 1)									
170.6	41.62	QP	125	1.1	H	-7.7	33.92	43.5	9.58
5210	89.12	PK	73	1.7	H	13.89	103.01	/	/
5210	75.46	Ave.	73	1.7	H	13.89	89.35	/	/
5210	98.26	PK	97	1.9	V	13.89	112.15	/	/
5210	83.64	Ave.	97	1.9	V	13.89	97.53	/	/
5145.5	45.61	PK	270	1.6	H	13.97	59.58	74	14.42
5145.5	31.33	AV	270	1.6	H	13.97	45.3	54	8.7
5352.7	41	PK	195	1.7	V	13.94	55.38	74	18.62
5352.7	29.54	Ave	195	1.7	V	13.94	43.48	54	10.52
10420	36.17	PK	245	1.8	H	24.74	60.91	74	13.09
10420	19.59	Ave.	245	1.8	H	24.74	44.33	54	9.67

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5210 MHz (Chain 2)									
170.6	41.17	QP	47	1.1	H	-7.7	33.47	43.5	10.03
5210	90.06	PK	281	2.0	H	13.89	103.95	/	/
5210	76.46	Ave.	281	2.0	H	13.89	90.35	/	/
5210	98.42	PK	137	2.2	V	13.89	112.31	/	/
5210	83.65	Ave.	137	2.2	V	13.89	97.54	/	/
5145.5	45.78	PK	160	2	H	13.97	59.75	74	14.25
5145.5	32.72	AV	160	2	H	13.97	46.69	54	7.31
5352.7	42.75	PK	207	2	V	13.94	56.69	74	17.31
5352.7	28.9	Ave	207	2	V	13.94	42.84	54	11.16
10420	36.34	PK	245	1.1	H	24.74	61.08	74	12.92
10420	19.75	Ave.	245	1.1	H	24.74	44.49	54	9.51
5210 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	41.32	QP	60	1.1	H	-7.7	33.62	43.5	9.88
5210	97.34	PK	67	2.0	H	13.89	111.23	/	/
5210	82.61	Ave.	67	2.0	H	13.89	96.50	/	/
5210	103.26	PK	261	1.4	V	13.89	117.15	/	/
5210	89.15	Ave.	261	1.4	V	13.89	103.04	/	/
5145.5	47.44	PK	202	1.6	H	13.97	61.41	74	12.59
5145.5	33.83	AV	202	1.6	H	13.97	47.8	54	6.2
5352.7	44.04	PK	168	2.2	V	13.94	57.98	74	16.02
5352.7	30.9	Ave	168	2.2	V	13.94	44.84	54	9.16
10420	36.97	PK	210	1.4	H	24.74	61.71	74	12.29
10420	20.52	Ave.	210	1.4	H	24.74	45.26	54	8.74

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5775 MHz (Chain 0)									
170.6	41.57	QP	33	1.1	H	-7.7	33.87	43.5	9.63
5775	89.23	PK	315	2.0	H	15.19	104.42	/	/
5775	74.47	Ave.	315	2.0	H	15.19	89.66	/	/
5775	96.59	PK	177	1.2	V	15.19	111.78	/	/
5775	82.3	Ave.	177	1.2	V	15.19	97.49	/	/
5724.3	43.32	PK	169	1.6	H	13.94	57.26	110.8	53.54
5724.3	44.33	PK	168	1.8	V	13.94	58.27	110.8	52.53
5719.4	38.9	PK	145	1.9	H	13.94	52.84	105.2	52.36
5719.4	38.93	PK	149	1.9	V	13.94	52.87	105.2	52.33
5699.3	38.8	PK	65	2	H	13.94	52.74	68.2	15.46
5699.3	38.84	PK	121	1.6	V	13.94	52.78	68.2	15.42
5853.2	45.21	PK	285	1.5	H	13.94	59.15	110.8	51.65
5853.2	44.05	PK	131	1.7	V	13.94	57.99	110.8	52.81
5857.8	39.28	PK	180	2.2	H	13.94	53.22	105.2	51.98
5857.8	38.12	PK	167	1.4	V	13.94	52.06	105.2	53.14
5876.3	37.57	PK	82	2	H	13.94	51.51	68.2	16.69
5876.3	36.91	PK	228	2.2	V	13.94	50.85	68.2	17.35
11550	36.19	PK	102	1.5	H	28.49	64.68	74	9.32
11550	19.2	Ave.	102	1.5	H	28.49	47.69	54	6.31
5775 MHz (Chain 1)									
170.6	41.65	QP	48	1.1	H	-7.7	33.95	43.5	9.55
5775	89.12	PK	190	2.1	H	15.19	104.31	/	/
5775	75.45	Ave.	190	2.1	H	15.19	90.64	/	/
5775	97.33	PK	82	1.0	V	15.19	112.52	/	/
5775	82.51	Ave.	82	1.0	V	15.19	97.70	/	/
5724.3	42.94	PK	61	2.1	H	13.94	56.88	110.8	53.92
5724.3	43.81	PK	260	1.9	V	13.94	57.75	110.8	53.05
5719.4	40.01	PK	152	2.1	H	13.94	53.95	105.2	51.25
5719.4	40.22	PK	268	1.5	V	13.94	54.16	105.2	51.04
5699.3	38.34	PK	153	2.1	H	13.94	52.28	68.2	15.92
5699.3	39.28	PK	223	2	V	13.94	53.22	68.2	14.98
5853.2	43.22	PK	225	1.7	H	13.94	57.16	110.8	53.64
5853.2	43.76	PK	156	1.8	V	13.94	57.7	110.8	53.1
5857.8	40.17	PK	131	1.2	H	13.94	54.11	105.2	51.09
5857.8	37.89	PK	76	1.5	V	13.94	51.83	105.2	53.37
5876.3	36.73	PK	114	2	H	13.94	50.67	68.2	17.53
5876.3	36.55	PK	253	1.6	V	13.94	50.49	68.2	17.71
11550	36.51	PK	186	2.2	H	28.49	65.00	74	9.00
11550	19.44	Ave.	186	2.2	H	28.49	47.93	54	6.07

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5775 MHz (Chain 2)									
170.6	41.56	QP	11	1.1	H	-7.7	33.86	43.5	9.64
5775	90	PK	135	1.6	H	15.19	105.19	/	/
5775	76.41	Ave.	135	1.6	H	15.19	91.60	/	/
5775	98.24	PK	245	1.8	V	15.19	113.43	/	/
5775	83.19	Ave.	245	1.8	V	15.19	98.38	/	/
5724.3	45.14	PK	166	1.7	H	13.94	59.08	110.8	51.72
5724.3	42.48	PK	62	2.2	V	13.94	56.42	110.8	54.38
5719.4	38.79	PK	251	1.9	H	13.94	52.73	105.2	52.47
5719.4	39.83	PK	76	1.5	V	13.94	53.77	105.2	51.43
5699.3	39.11	PK	226	1.2	H	13.94	53.05	68.2	15.15
5699.3	38.35	PK	289	1.6	V	13.94	52.29	68.2	15.91
5853.2	45.49	PK	162	1.8	H	13.94	59.43	110.8	51.37
5853.2	46.02	PK	83	1.7	V	13.94	59.96	110.8	50.84
5857.8	38.58	PK	141	1.6	H	13.94	52.52	105.2	52.68
5857.8	39.16	PK	109	1.6	V	13.94	53.1	105.2	52.1
5876.3	37.73	PK	231	1.8	H	13.94	51.67	68.2	16.53
5876.3	38	PK	156	1.2	V	13.94	51.94	68.2	16.26
11550	37.23	PK	195	2.1	H	28.49	65.72	74	8.28
11550	21.17	Ave.	195	2.1	H	28.49	49.66	54	4.34
5775 MHz, Simultaneous Transmission for chain 0+ chain 1+chain 2.									
170.6	41.46	QP	22	1.1	H	-7.7	33.76	43.5	9.74
5775	97.48	PK	253	1.1	H	15.19	112.67	/	/
5775	83.51	Ave.	253	1.1	H	15.19	98.70	/	/
5775	103.76	PK	346	1.9	V	15.19	118.95	/	/
5775	89.67	Ave.	346	1.9	V	15.19	104.86	/	/
5724.3	46.65	PK	119	1.3	H	13.94	59.9	110.8	50.9
5724.3	45.77	PK	79	1.7	V	13.94	60.13	110.8	50.67
5719.4	41.61	PK	80	1.7	H	13.94	55.13	105.2	50.07
5719.4	41.7	PK	258	1.4	V	13.94	54.67	105.2	50.53
5699.3	40.23	PK	223	1.8	H	13.94	54.03	68.2	14.17
5699.3	40.8	PK	215	1.5	V	13.94	54.37	68.2	13.83
5853.2	47.16	PK	292	1.5	H	13.94	61.53	110.8	49.75
5853.2	47.29	PK	89	1.4	V	13.94	61.33	105.2	51.71
5857.8	41.5	PK	240	1.9	H	13.94	55	105.2	15.02
5857.8	41.53	PK	215	1.5	V	13.94	55.81	105.2	49.39
5876.3	39.93	PK	111	1.5	H	13.94	54.66	68.2	13.54
5876.3	39.8	PK	186	1.6	V	13.94	54.29	68.2	13.91
11550	38.11	PK	159	1.5	H	28.49	66.60	74	7.40
11550	23.36	Ave.	159	1.5	H	28.49	51.85	54	2.15

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.

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.

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

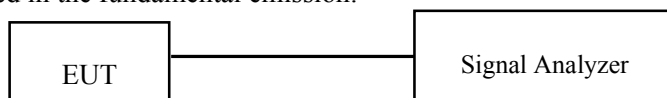
1. Emission Bandwidth (EBW)

- 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2016-04-14	2017-04-14
Ducommun technologies	RF Cable	RG-214	3	2016-05-06	2017-05-06
WEINSCHTEL	3dB Attenuator	5324	AU0709	2015-07-18	2016-07-18
WEINSCHTEL	3dB Attenuator	5324	AU0709	2016-07-18	2017-07-18

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

Test Data**Environmental Conditions**

Temperature:	23 - 26 °C
Relative Humidity:	50 - 58 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang from 2016-06-20 to 2016-08-12.

EUT operation mode: Transmitting

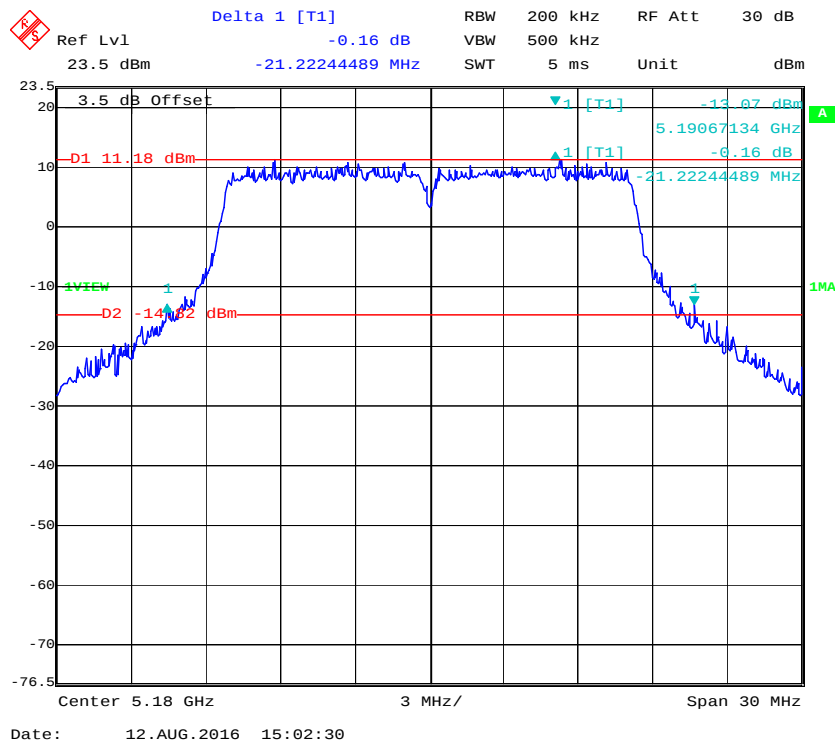
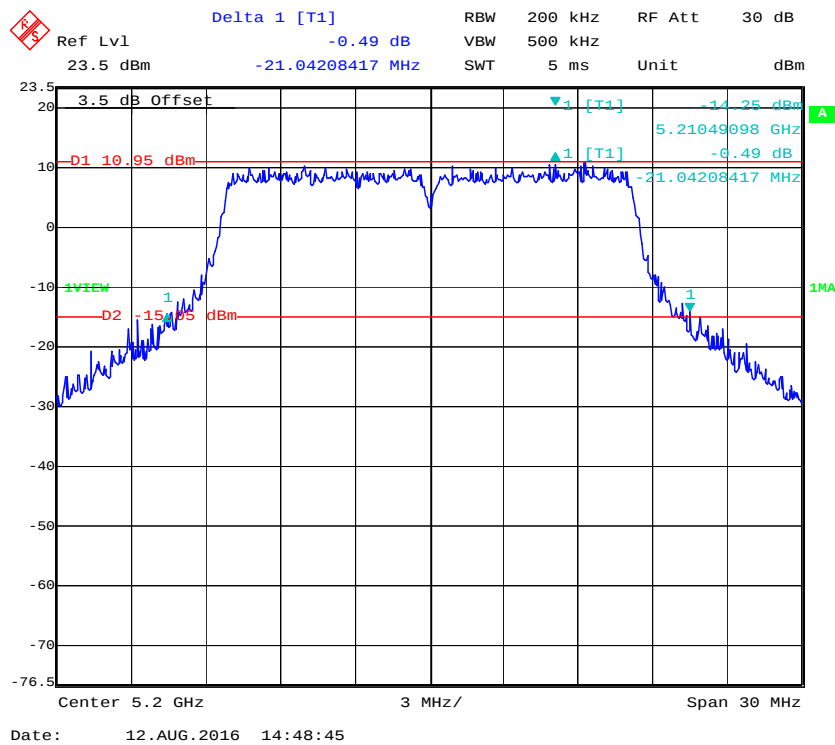
Test Result: Pass; please refer to the following tables and plots.

The three transmitters have the identical emission bandwidth characteristics, so one of them was tested for 26 dB bandwidth.

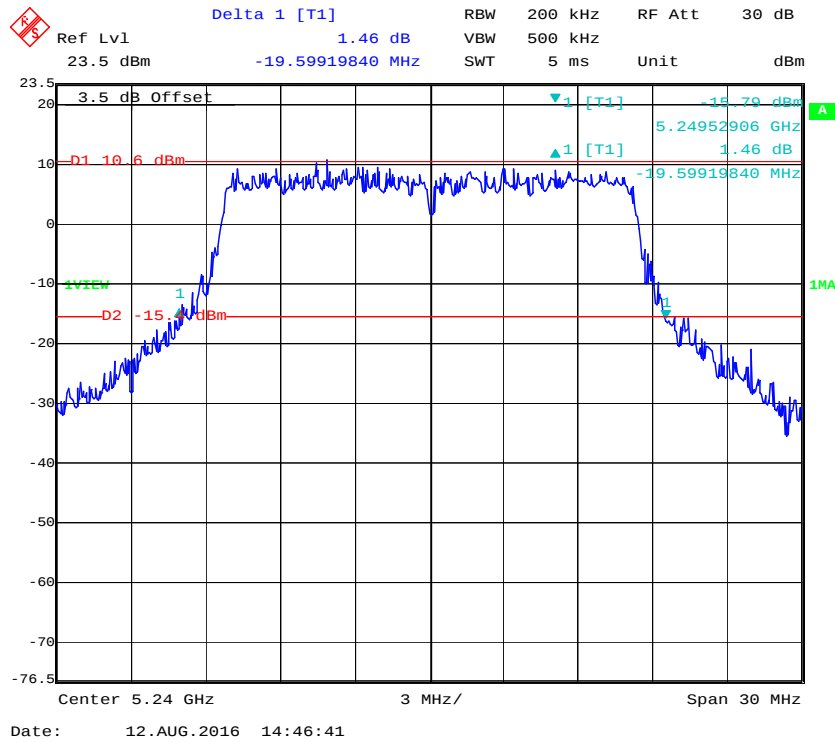
5180 MHz – 5240 MHz:

Frequency (MHz)	26dB Emission Bandwidth (MHz)	Remark
802.11a		No transmitted signal in the 26 dB bandwidth extends into the U-NII-2A band
5180	21.22	
5200	21.04	
5240	19.60	
802.11n20		
5180	20.62	
5200	21.10	
5240	20.50	
802.11n40		
5190	43.28	
5230	41.60	

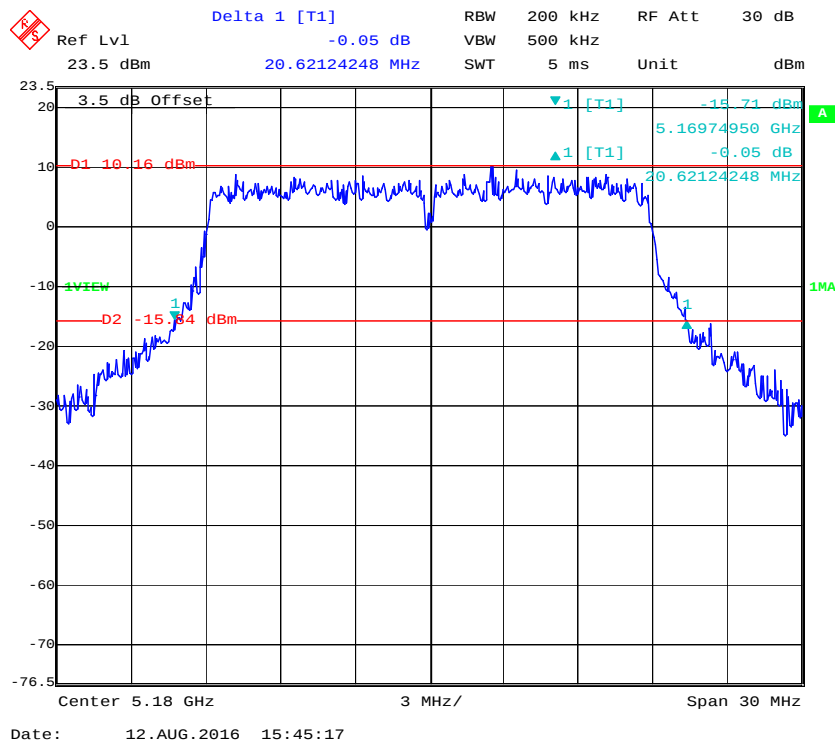
Frequency (MHz)	26dB Emission Bandwidth (MHz)	Remark
802.11ac20		No transmitted signal in the 26 dB bandwidth extends into the U-NII-2A band
5180	21.04	
5200	21.28	
5240	20.38	
802.11ac40		
5190	44.97	
5230	41.24	
802.11ac80		
5210	79.36	

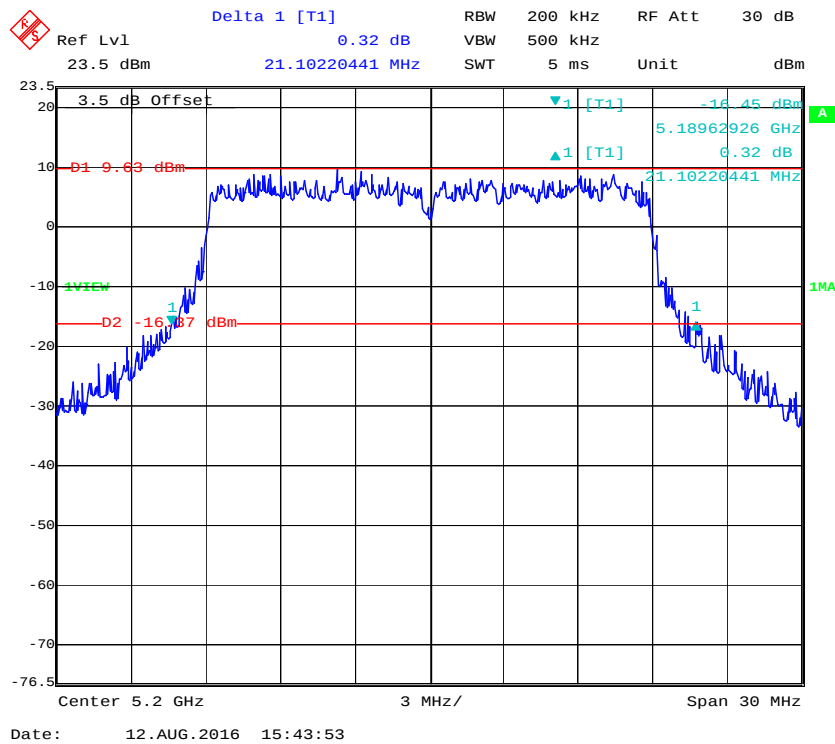
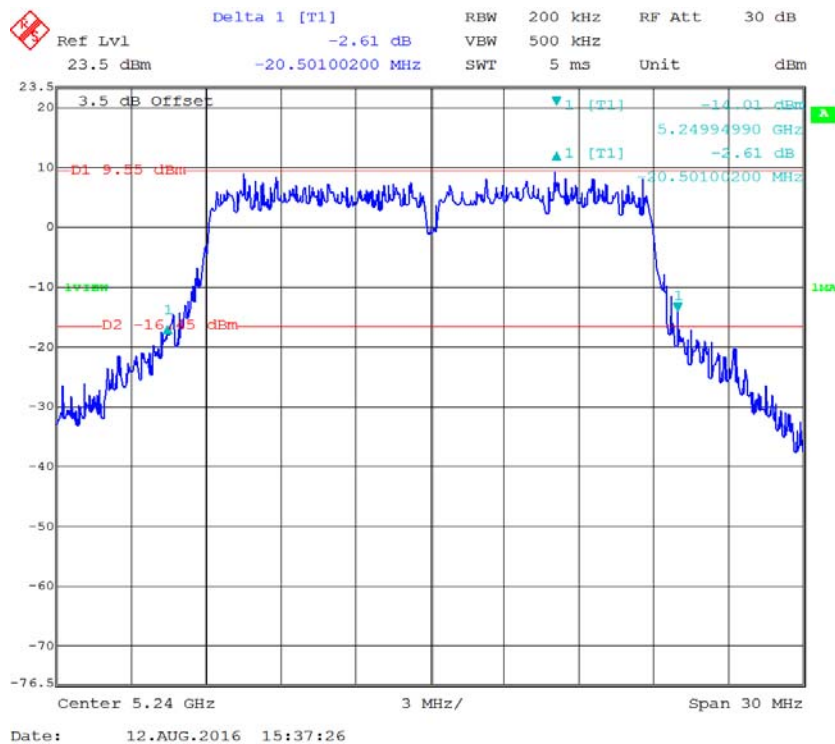
802.11a mode, 26dB Emission Bandwidth, 5180 MHz**802.11a mode, 26dB Emission Bandwidth, 5200 MHz**

802.11a mode, 26dB Emission Bandwidth, 5240 MHz

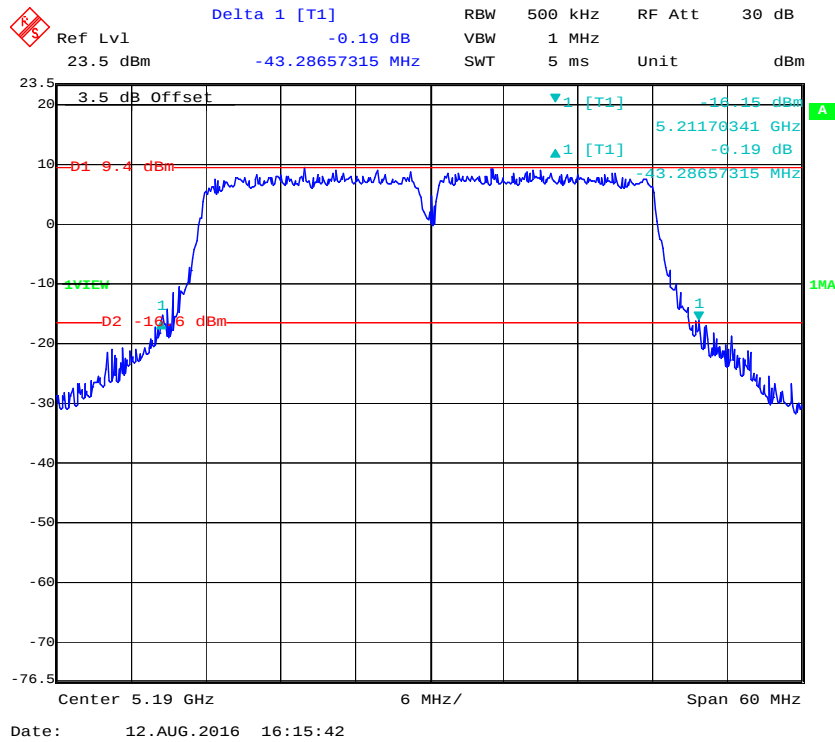


802.11n20 mode, 26dB Emission Bandwidth, 5180 MHz

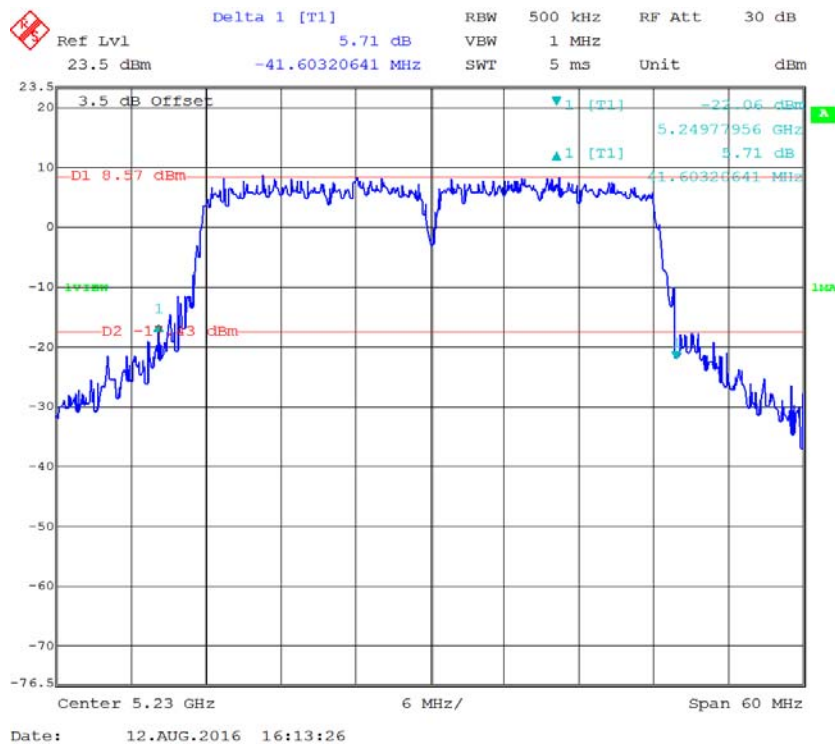


802.11n20 mode, 26dB Emission Bandwidth, 5200 MHz**802.11n20 mode, 26dB Emission Bandwidth, 5240 MHz**

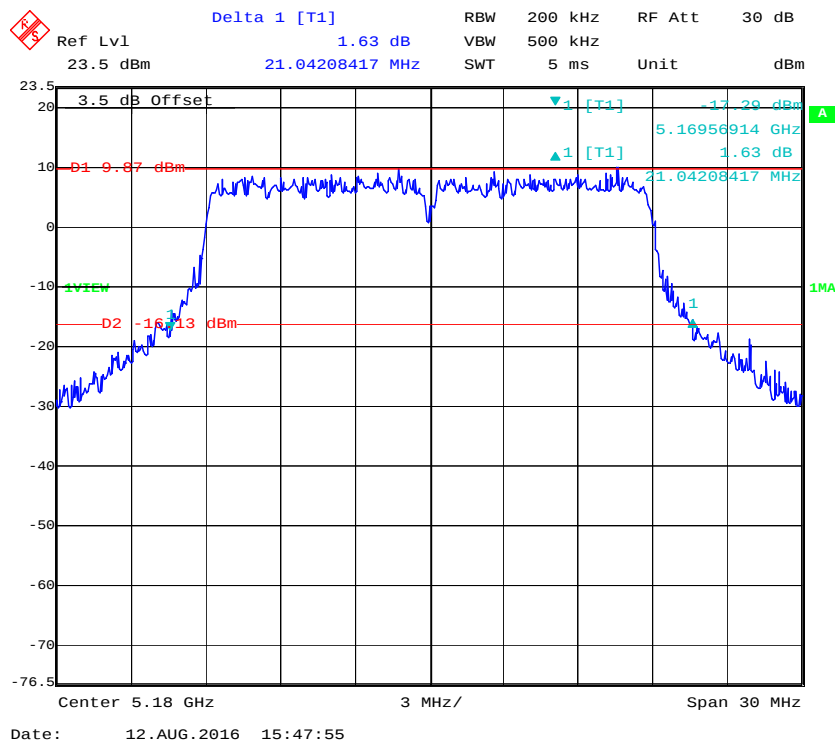
802.11n40 mode, 26dB Emission Bandwidth, 5190 MHz



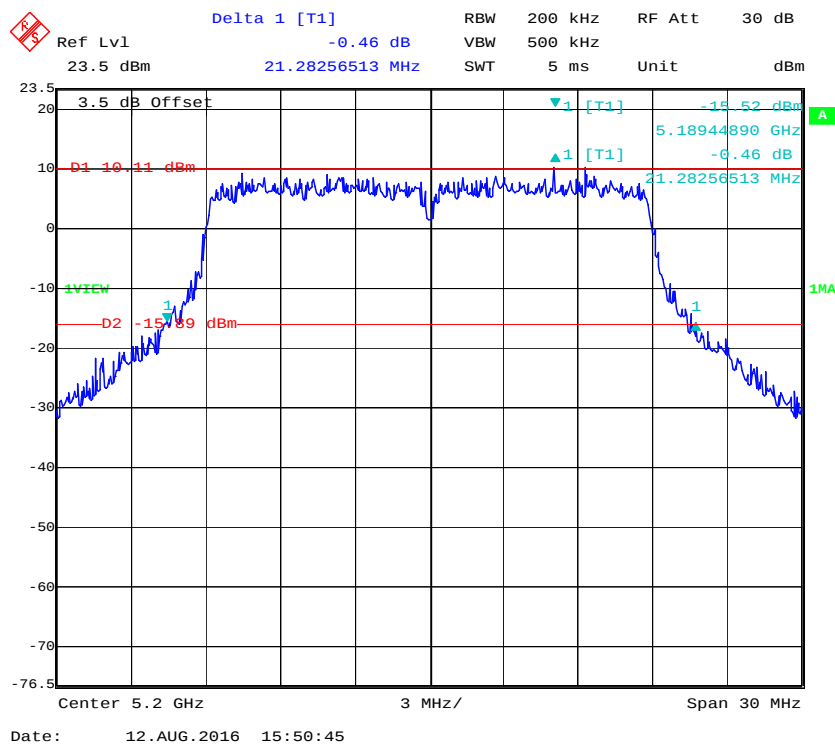
802.11n40 mode, 26dB Emission Bandwidth, 5230 MHz



802.11ac20 mode, 26dB Emission Bandwidth, 5180 MHz

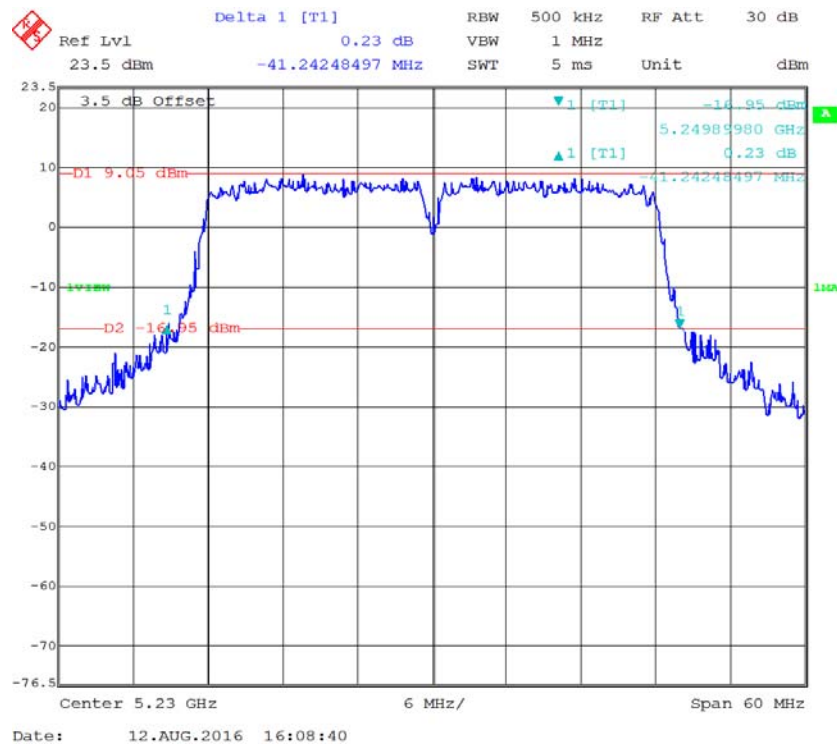
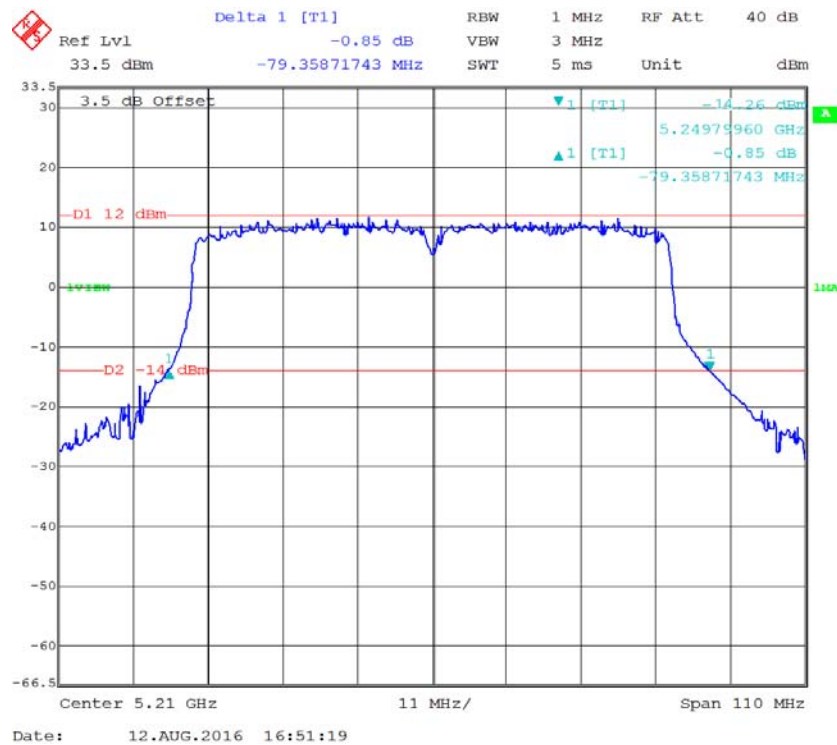


802.11ac20 mode, 26dB Emission Bandwidth, 5200 MHz



[illegible]

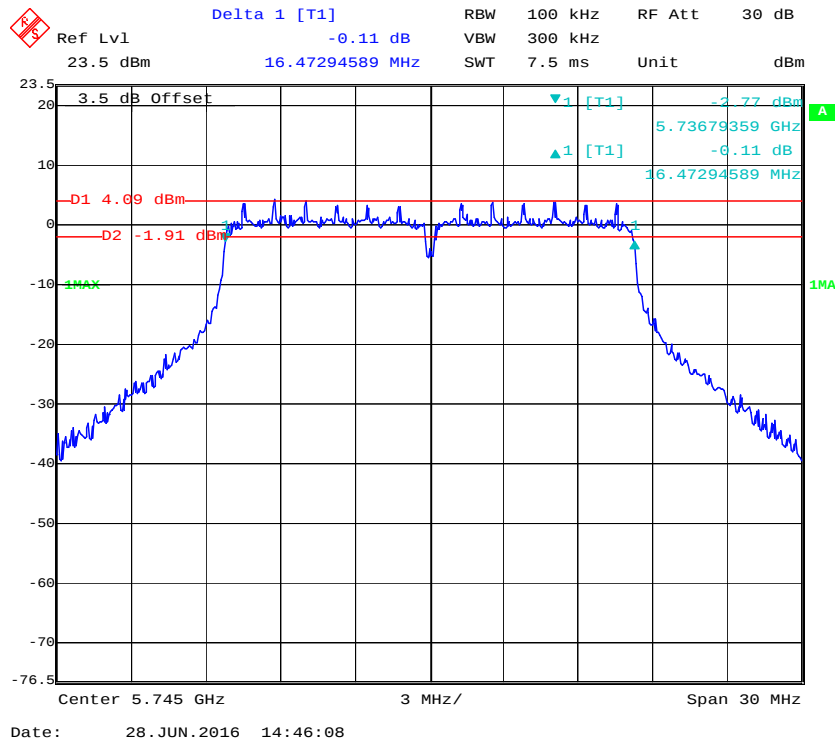
Ref Lvl 23.5 dBm Delta 1 [T1] 0.26 dB RBW 500 kHz RF Att 30 dB
 3.5 dB Offset: 3.5 dBm D1 10.33 dBm D2 -15.67 dBm Unit dBm
 5.21302605 GHz 6.26 dB 4.96993988 MHz
 1MAX 1MA
 Center 5.19 GHz 6 MHz/ Span 60 MHz
 Date: 12.AUG.2016 16:05:06

802.11ac40 mode, 26dB Emission Bandwidth, 5230 MHz**802.11ac80 mode, 26dB Emission Bandwidth, 5210 MHz**

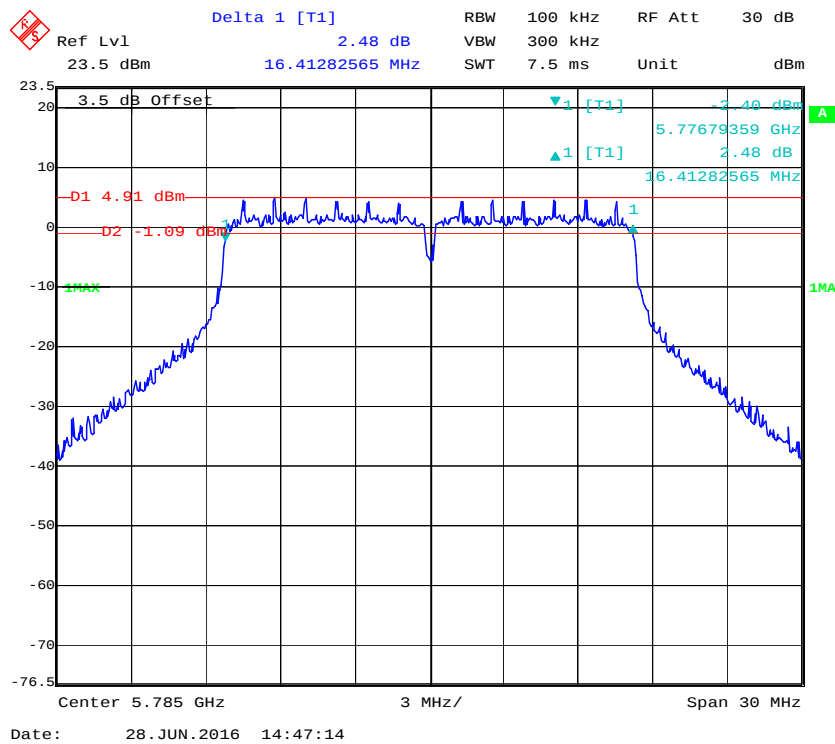
5725 MHz – 5825 MHz:

Frequency (MHz)	6dB Emission Bandwidth (MHz)	Limit (MHz)
802.11a		
5745	16.473	0.5
5785	16.413	0.5
5825	16.413	0.5
802.11n20		
5745	17.615	0.5
5785	17.615	0.5
5825	17.615	0.5
802.11n40		
5755	36.433	0.5
5795	36.433	0.5
802.11ac20		
5745	17.615	0.5
5785	17.675	0.5
5825	17.615	0.5
802.11ac40		
5755	36.19	0.5
5795	36.43	0.5
802.11ac80		
5775	76.232	0.5

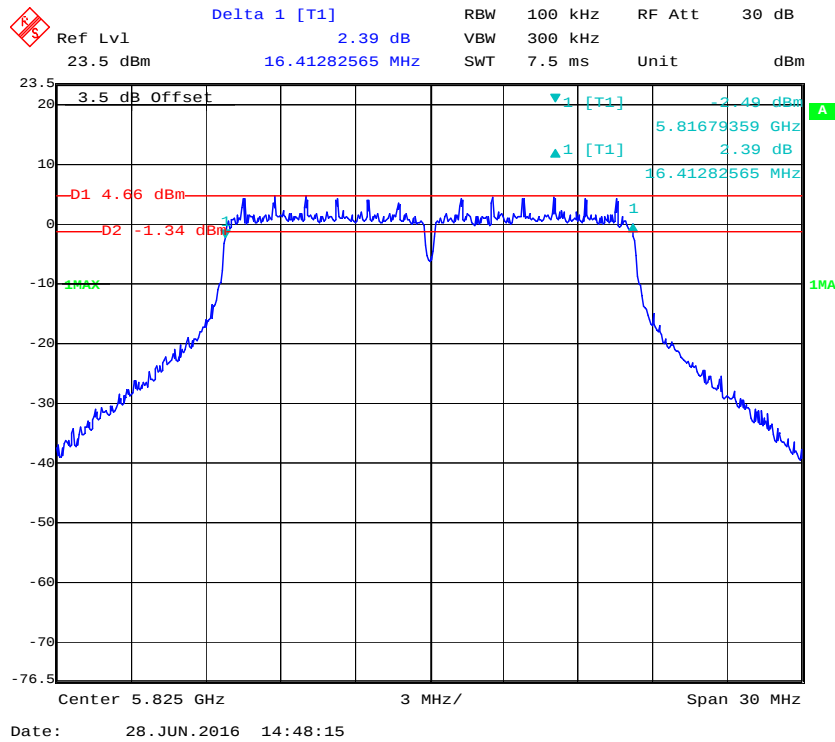
802.11a mode, 6dB Emission Bandwidth, 5745 MHz



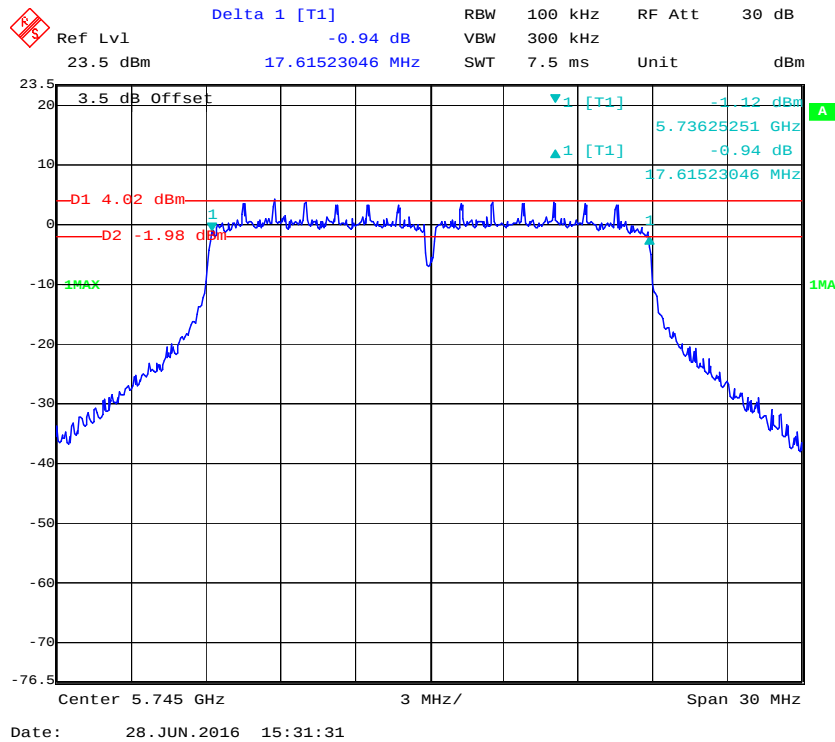
802.11a mode, 6dB Emission Bandwidth, 5785 MHz



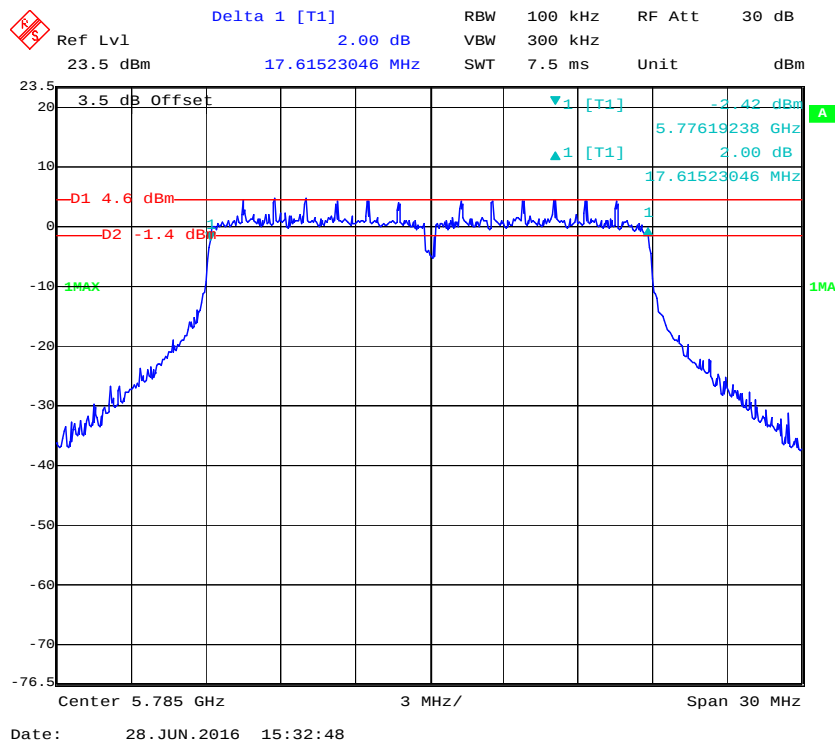
802.11a mode, 6dB Emission Bandwidth, 5825 MHz



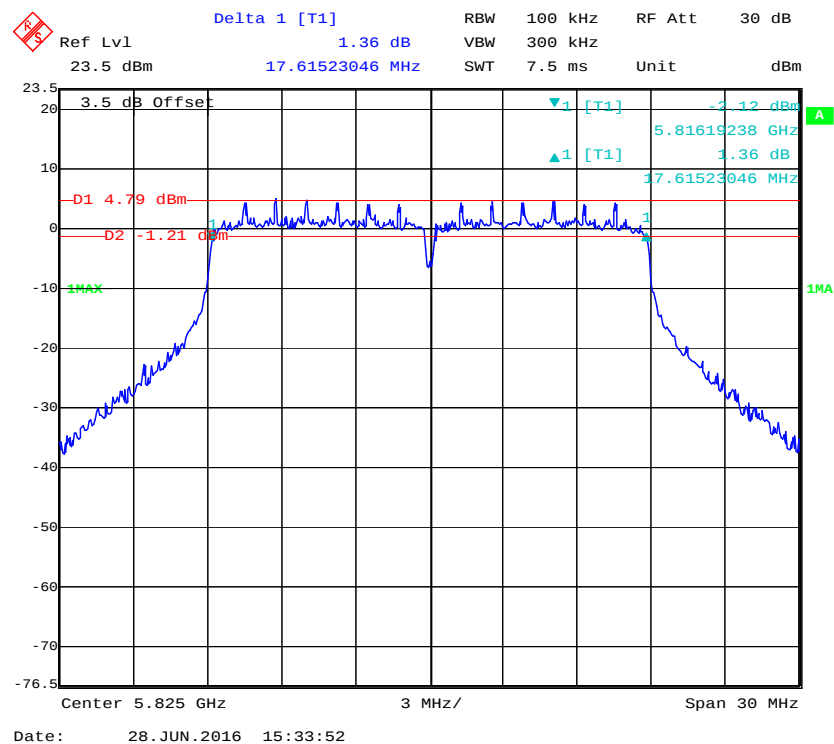
802.11n20 mode, 6dB Emission Bandwidth, 5745 MHz



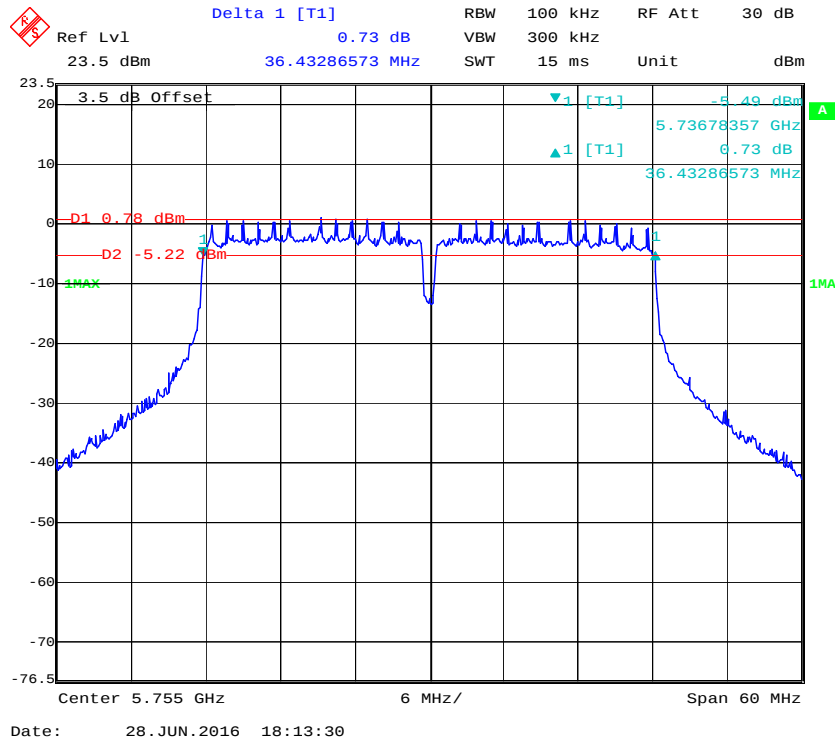
802.11n20 mode, 6dB Emission Bandwidth, 5785 MHz



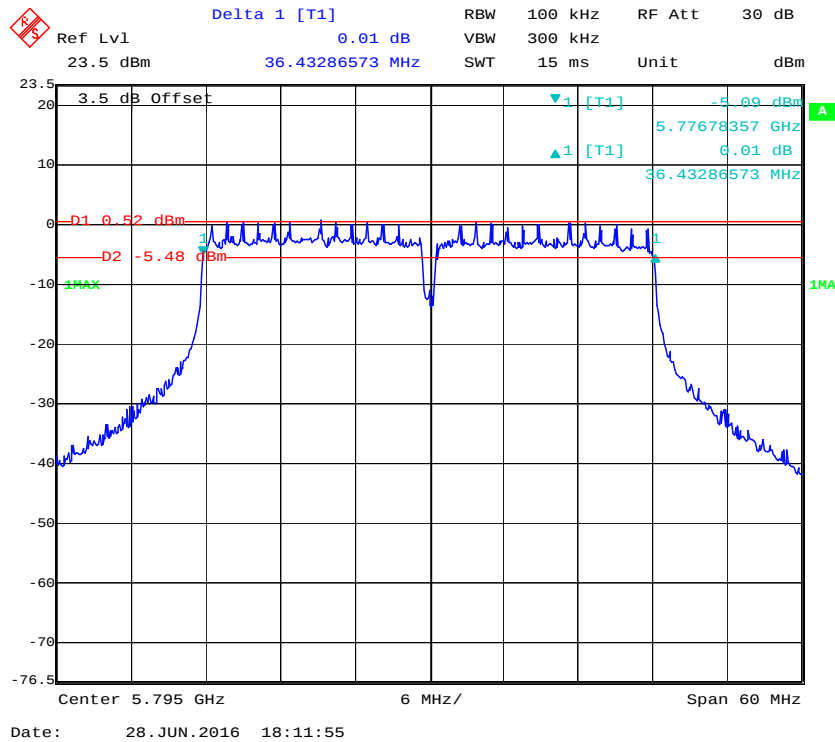
802.11n20 mode, 6dB Emission Bandwidth, 5825 MHz



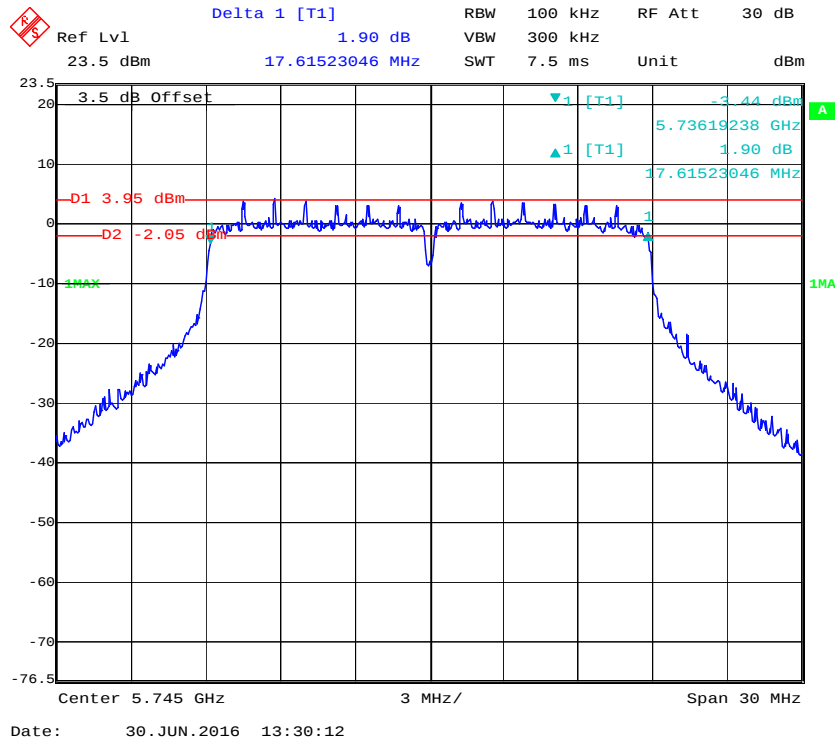
802.11n40 mode, 6dB Emission Bandwidth, 5755 MHz



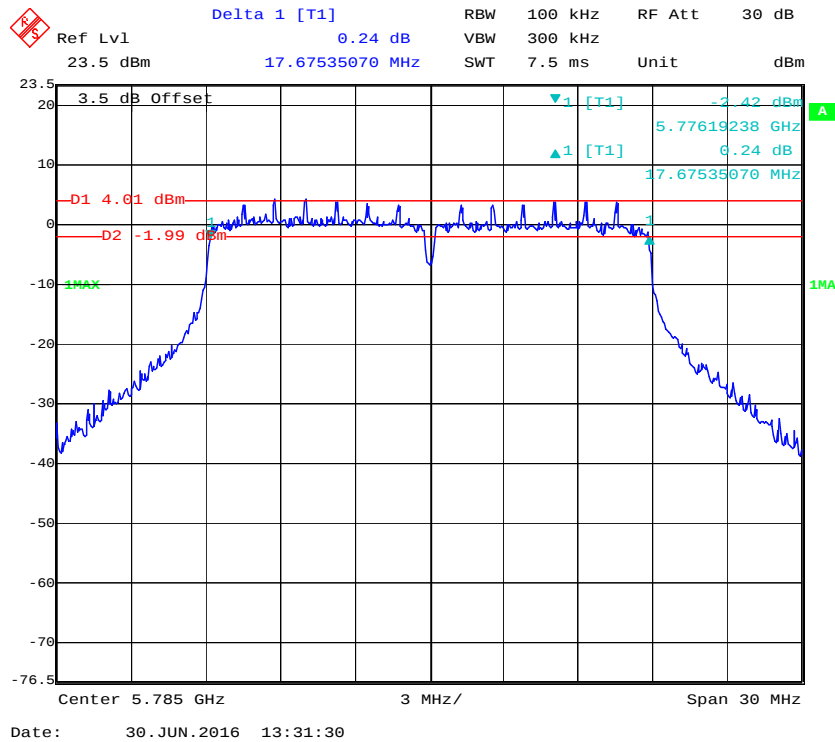
802.11n40 mode, 6dB Emission Bandwidth, 5795 MHz

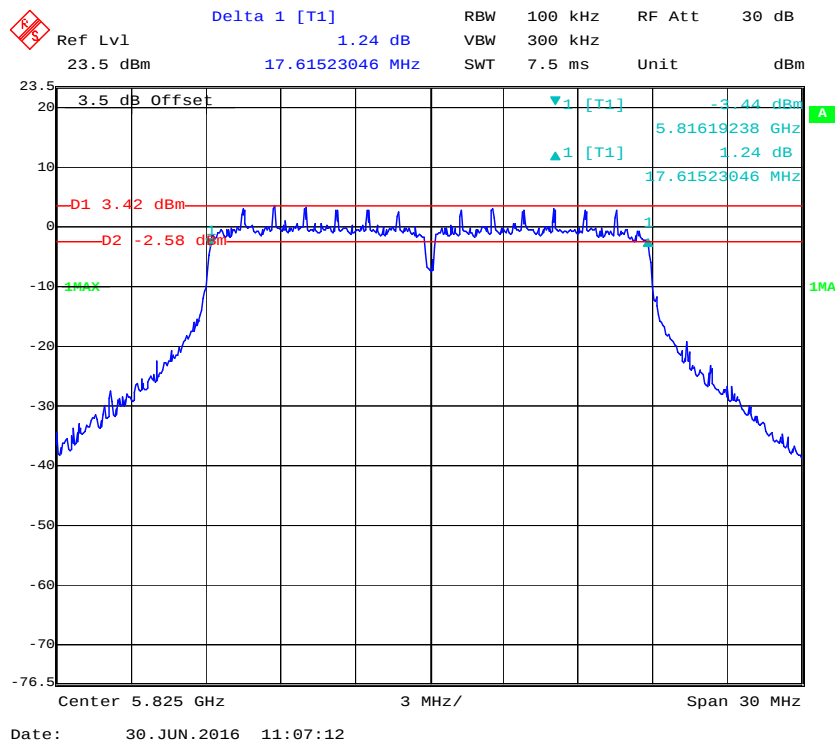
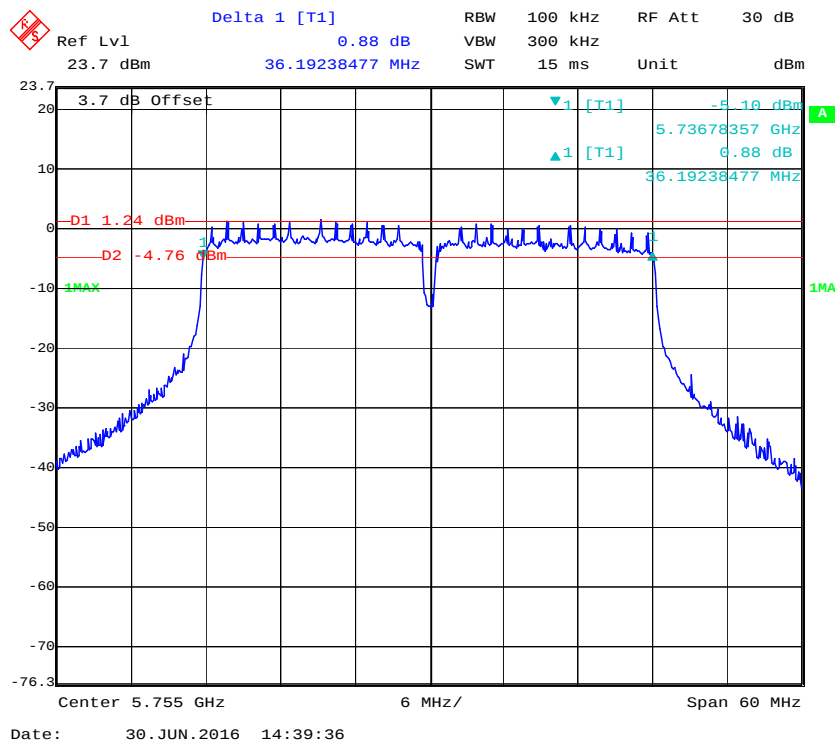


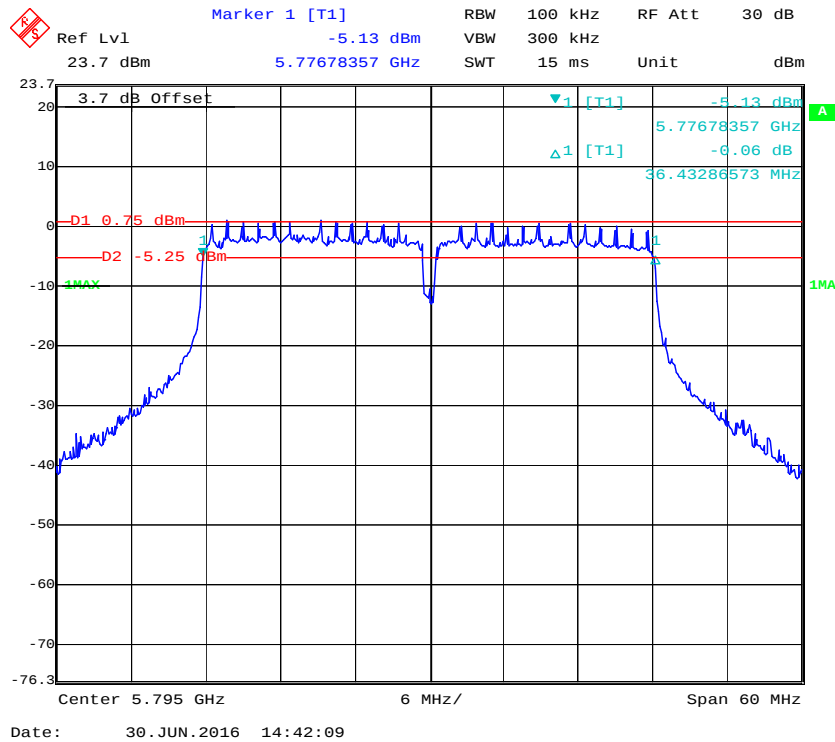
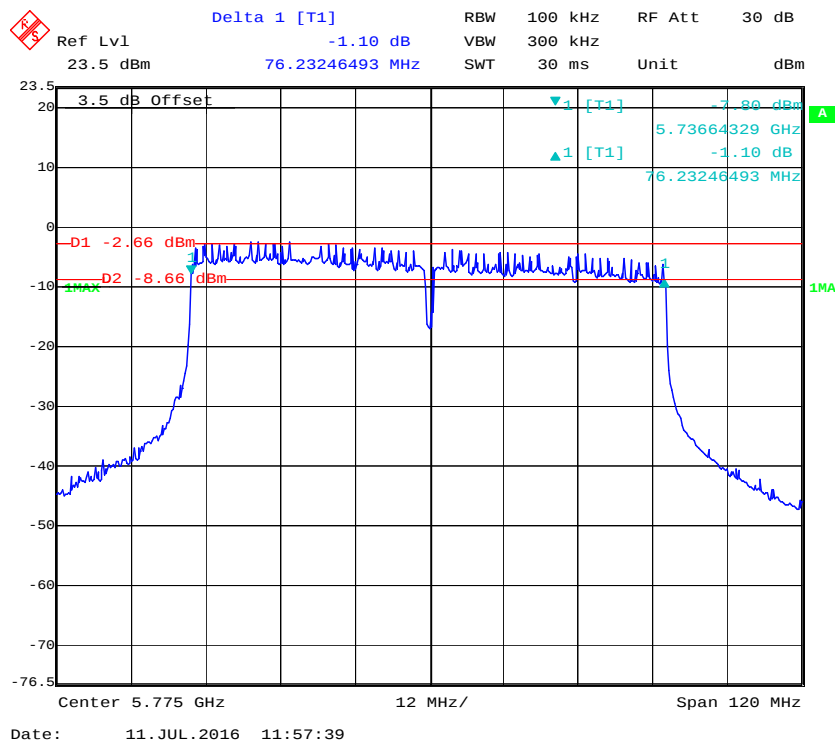
802.11ac20 mode, 6dB Emission Bandwidth, 5745 MHz



802.11ac20 mode, 6dB Emission Bandwidth, 5785 MHz



802.11ac20 mode, 6dB Emission Bandwidth, 5825 MHz**802.11ac40 mode, 6dB Emission Bandwidth, 5755 MHz**

802.11ac40 mode, 6dB Emission Bandwidth, 5795 MHz**802.11ac80 mode, 6dB Emission Bandwidth, 5775 MHz**

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

Set span to encompass the entire EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW $\geq$ 3 MHz.

(iv) Number of points in sweep $\geq$ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Manually set sweep time $\geq$ 10 * (number of points in sweep) * (symbol period of the transmitted signal), but not less than the automatic default sweep time.

(vi) Set detector = RMS.

(vii) The EUT shall be operated at 100 percent duty cycle.

(viii) Perform a single sweep.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2016-04-14	2017-04-14
Ducommun technologies	RF Cable	RG-214	3	2016-05-06	2017-05-06
WEINSCHL	3dB Attenuator	5324	AU0709	2015-07-18	2016-07-18
WEINSCHL	3dB Attenuator	5324	AU0709	2016-07-18	2017-07-18

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

Test Data**Environmental Conditions**

Temperature:	23 - 26 °C
Relative Humidity:	50 - 58 %
ATM Pressure:	101.0 kPa

The testing was performed by Simon Wang from 2016-07-19 to 2016-07-21.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables and plots.

Note: This Device Emploies Cyclic Delay Diversity.

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

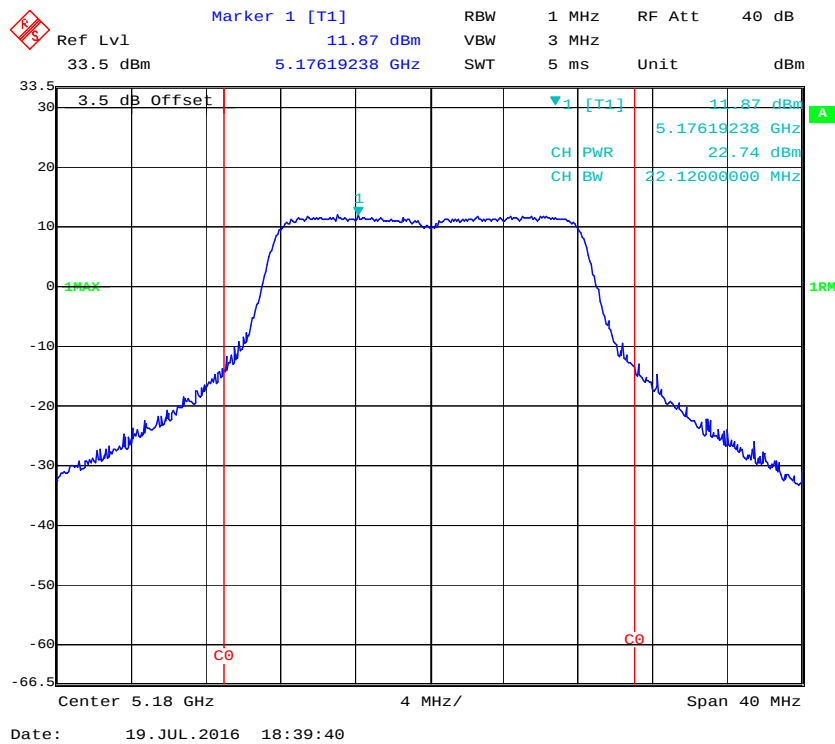
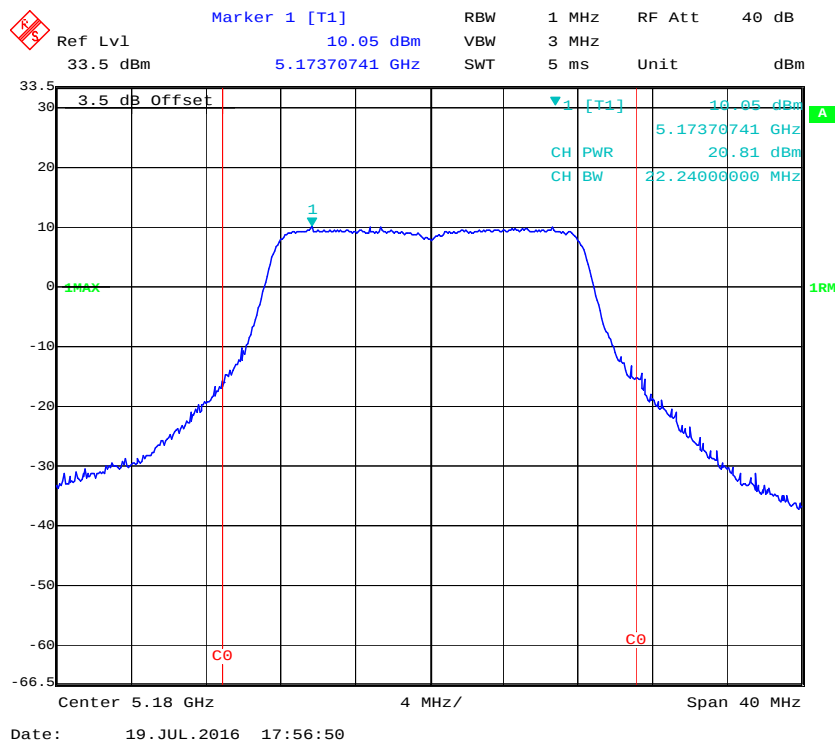
As to this device, $N_{ANT} \leq 4$, Array Gain = 0 dB.

Total directional gain (dBi) = gain of individual transmit antennas (dBi) + 0 (dB) = 3dBi.

5150 MHz – 5250 MHz:

Frequency (MHz)	Antenna Port	Output Power (dBm)	Sum Output Power (dBm) Chain0+Chain1+chain 2	Limit (dBm)
802.11a				
5180	0	22.74	26.410	30
	1	20.81		
	2	21.11		
5200	0	22.18	26.360	
	1	21.18		
	2	21.34		
5240	0	21.76	26.386	
	1	21.33		
	2	21.74		
802.11n20				
5180	0	21.69	25.939	30
	1	20.83		
	2	20.93		
5200	0	21.39	25.939	
	1	20.90		
	2	21.20		
5240	0	20.62	25.888	
	1	21.32		
	2	21.37		
802.11n40				
5190	0	21.89	26.123	30
	1	21.04		
	2	21.07		
5230	0	21.02	26.179	
	1	21.01		
	2	22.10		

Frequency (MHz)	Antenna Port	Output Power (dBm)	Sum Output Power (dBm) Chain0+Chain1+chain 2	Limit (dBm)
802.11ac20				
5180	0	21.75	25.812	30
	1	20.48		
	2	20.79		
5200	0	21.36	25.829	
	1	20.71		
	2	21.08		
5240	0	20.39	25.651	
	1	21.05		
	2	21.16		
802.11ac40				
5190	0	23.09	26.536	30
	1	20.77		
	2	21.05		
5230	0	22.43	26.215	
	1	20.71		
	2	20.99		
802.11ac80				
5210	0	22.69	27.395	30
	1	22.56		
	2	22.62		

802.11a mode, RF Conducted Output Power, Antenn 0, 5180 MHz**802.11a mode, RF Conducted Output Power, Antenn 1, 5180 MHz**

Ref Lvl 33.5 dBm
 Marker 1 [T1] 10.25 dBm
 5.18468938 GHz
 RBW 1 MHz
 VBW 3 MHz
 SWT 5 ms
 RF Att 40 dB
 Unit dBm

3.5 dB Offset
 CH PWR 16.25 dBm
 CH BW 5.18468938 GHz
 21.11 dBm
 22.61000000 MHz

1
 1
 1

3.5 dB Offset
 4 MHz/
 Span 40 MHz

Date: 19.JUL.2016 18:09:04

Ref Lvl 33.5 dBm

Marker 1 [T1] 11.26 dBm

RBW 1 MHz

VBW 3 MHz

SWT 5 ms

Unit dBm

3.5 dB Offset

CH PWR 11.26 dBm

CH BW 22.18 dBm

22.12000000 MHz

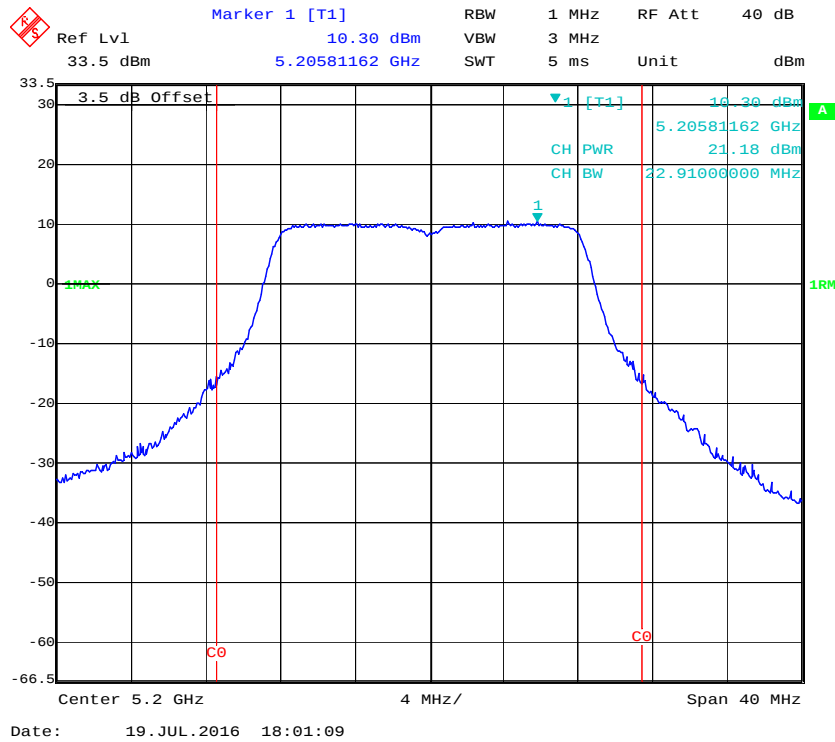
Center 5.2 GHz

4 MHz/

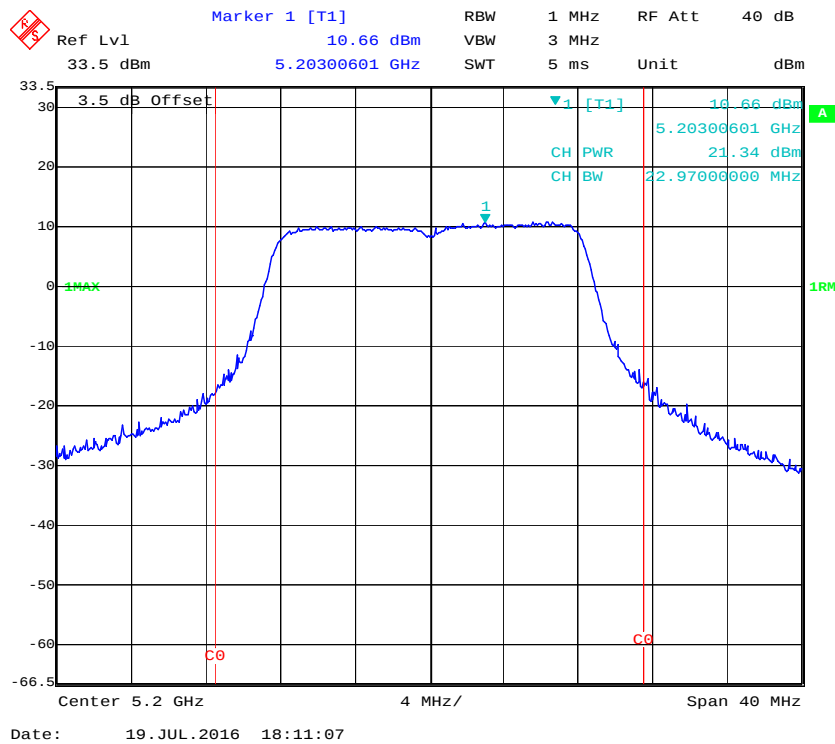
Span 40 MHz

Date: 19. JUL. 2016 18:40:37

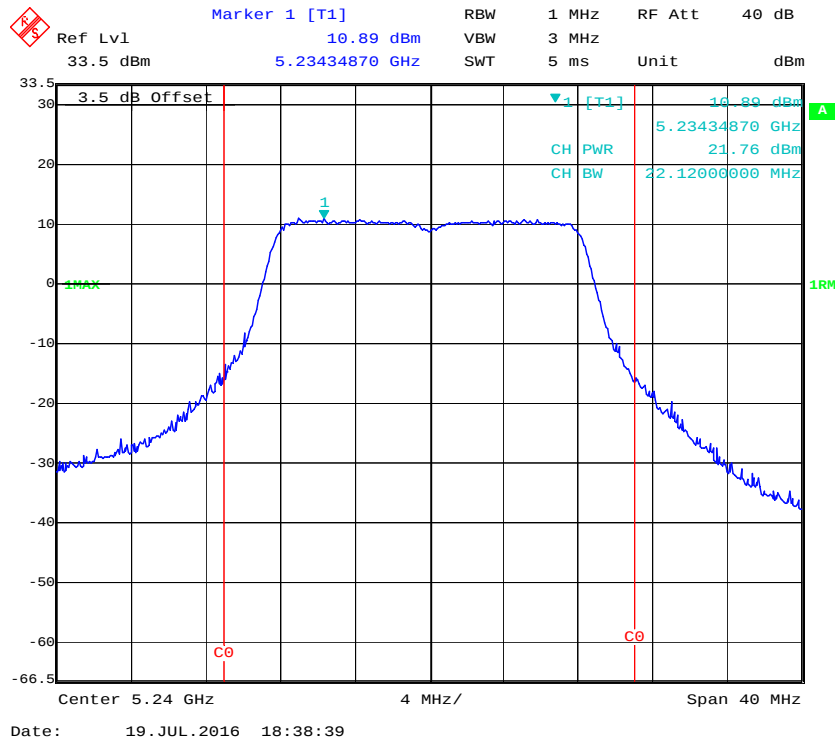
802.11a mode, RF Conducted Output Power, Antenn 1, 5200 MHz



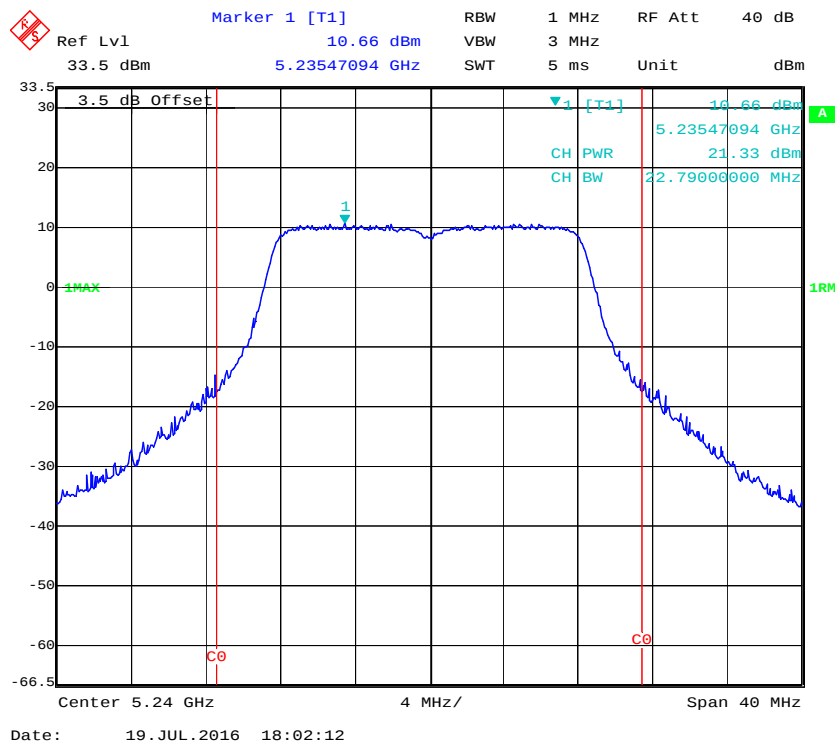
802.11a mode, RF Conducted Output Power, Antenn 2, 5200 MHz



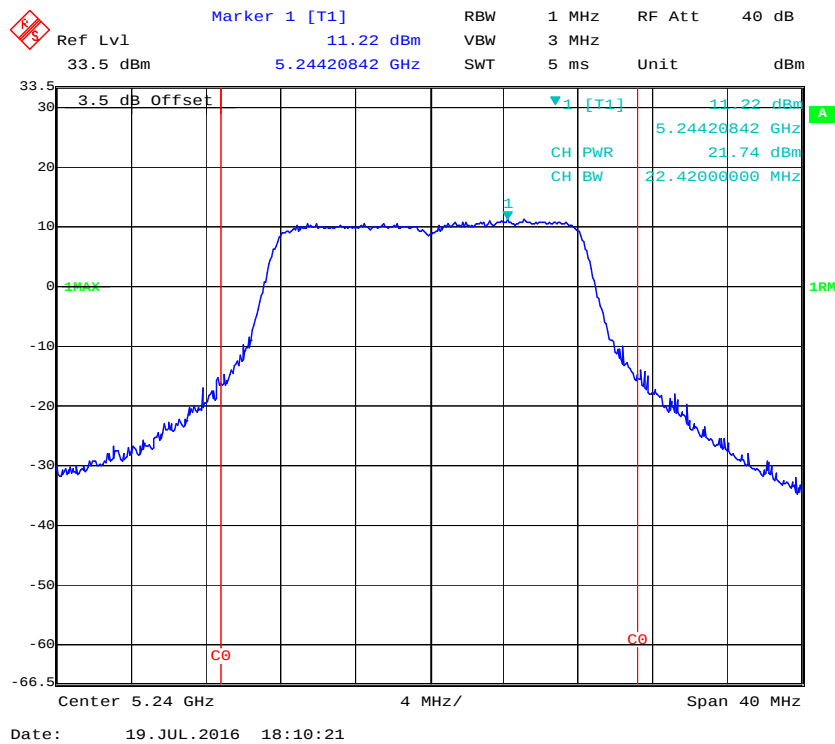
802.11a mode, RF Conducted Output Power, Antenn 0, 5240 MHz



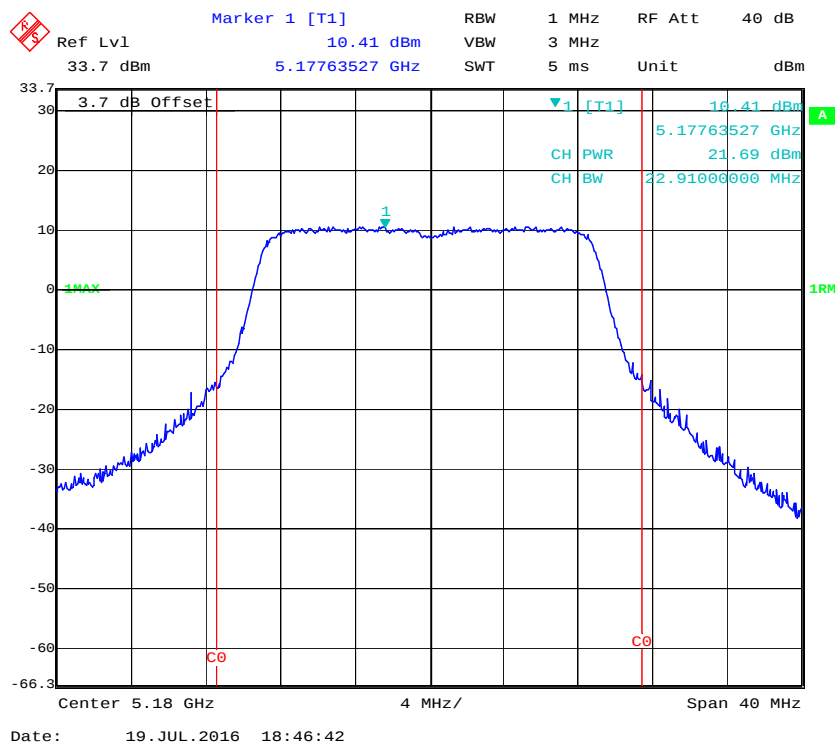
802.11a mode, RF Conducted Output Power, Antenn 1, 5240 MHz

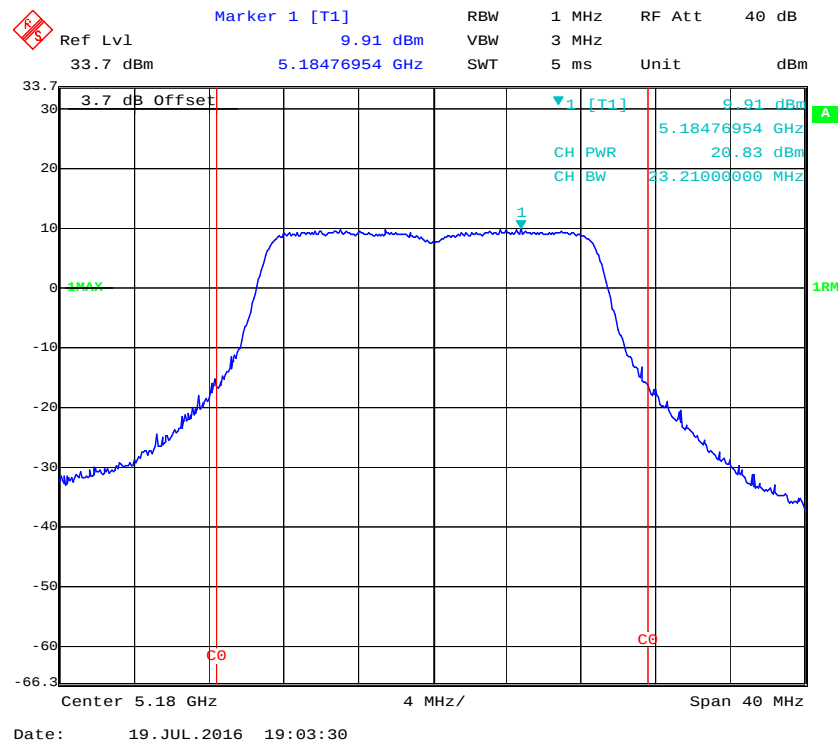
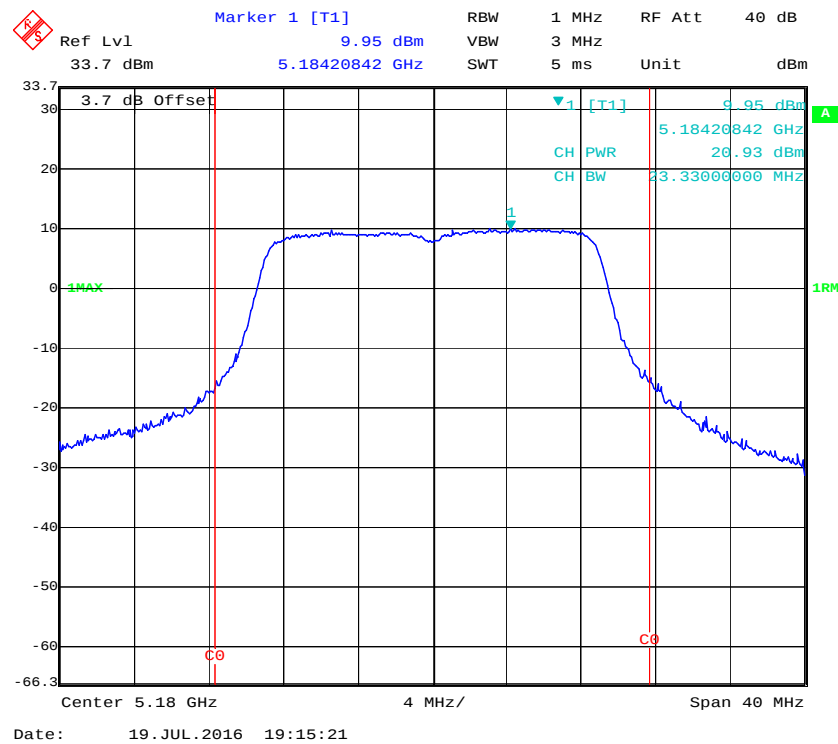


802.11a mode, RF Conducted Output Power, Antenn 2, 5240 MHz

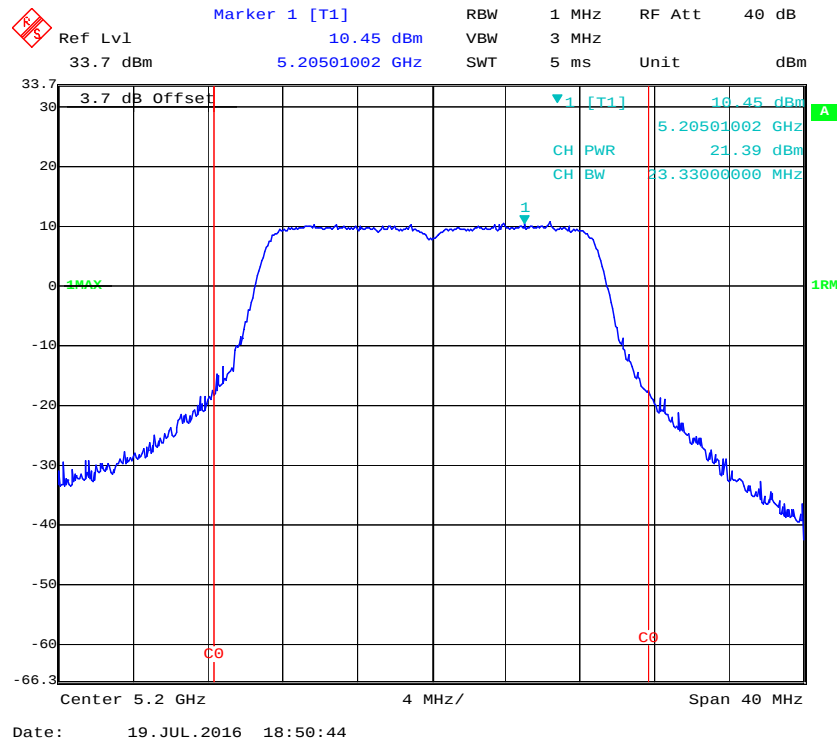


802.11n20 mode, RF Conducted Output Power, Antenn 0, 5180 MHz

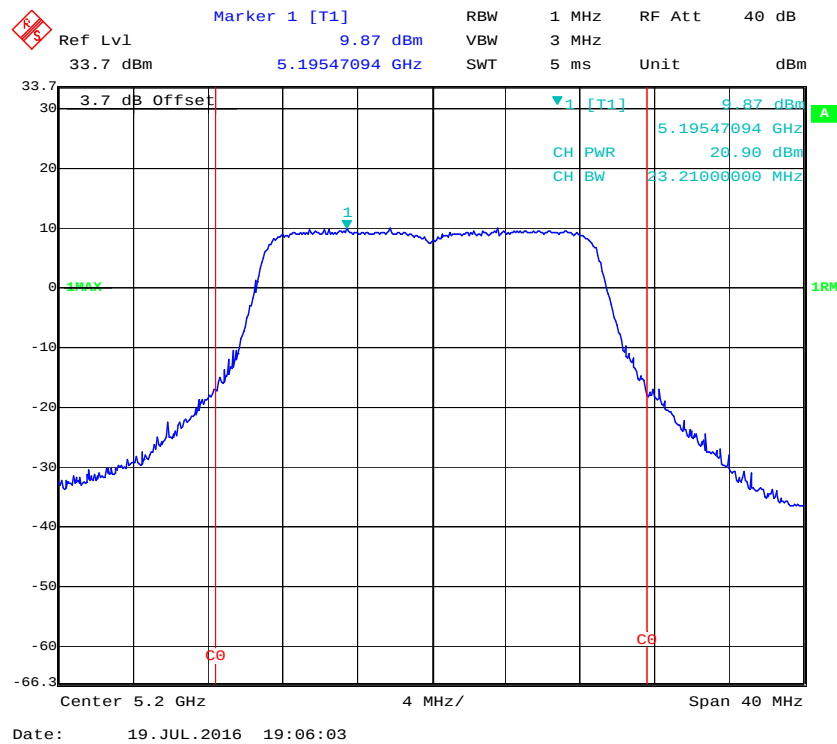


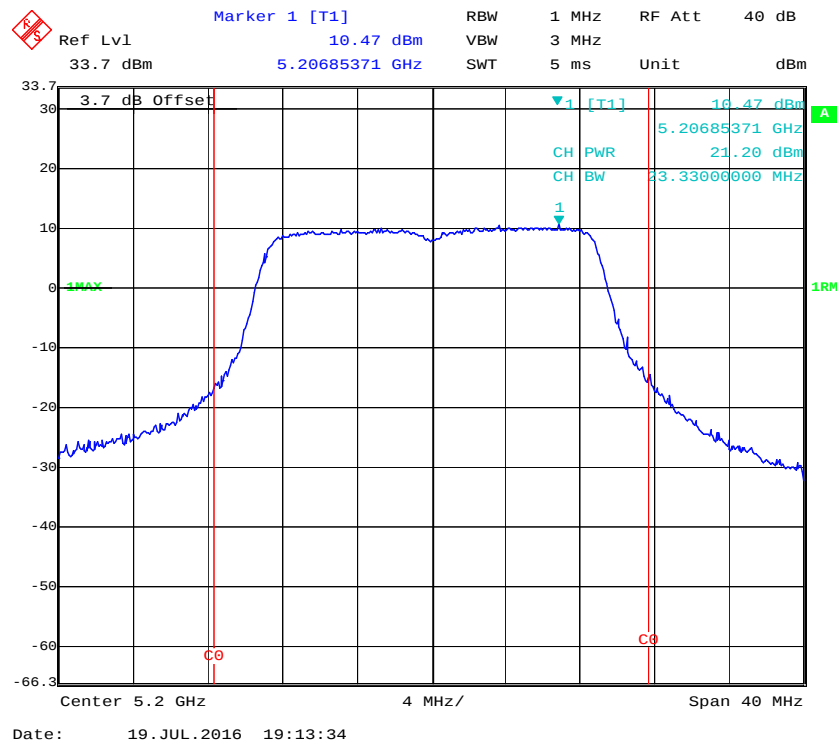
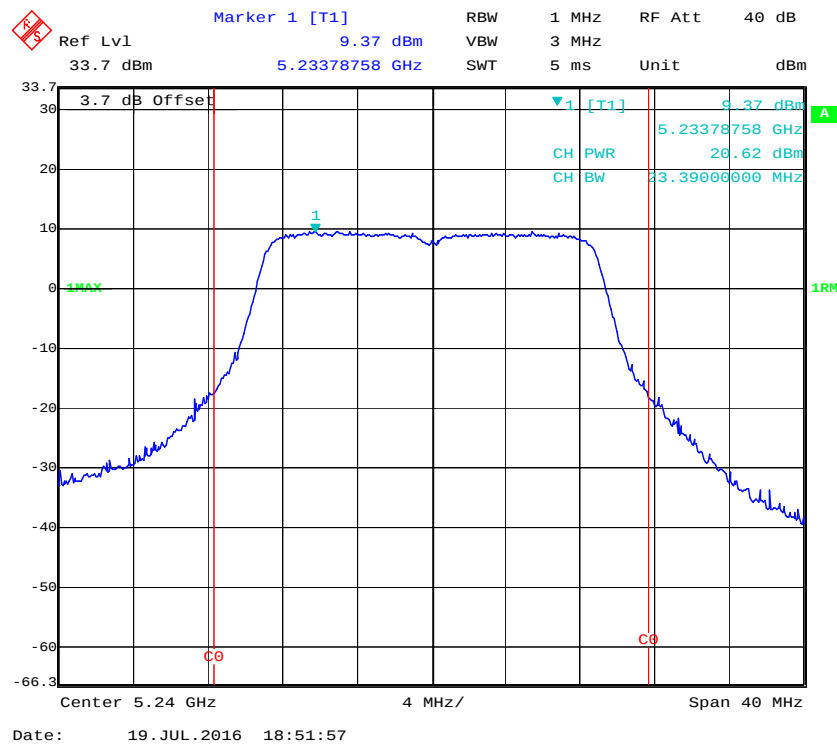
802.11n20 mode, RF Conducted Output Power, Antenn 1, 5180 MHz**802.11n20 mode, RF Conducted Output Power, Antenn 2, 5180 MHz**

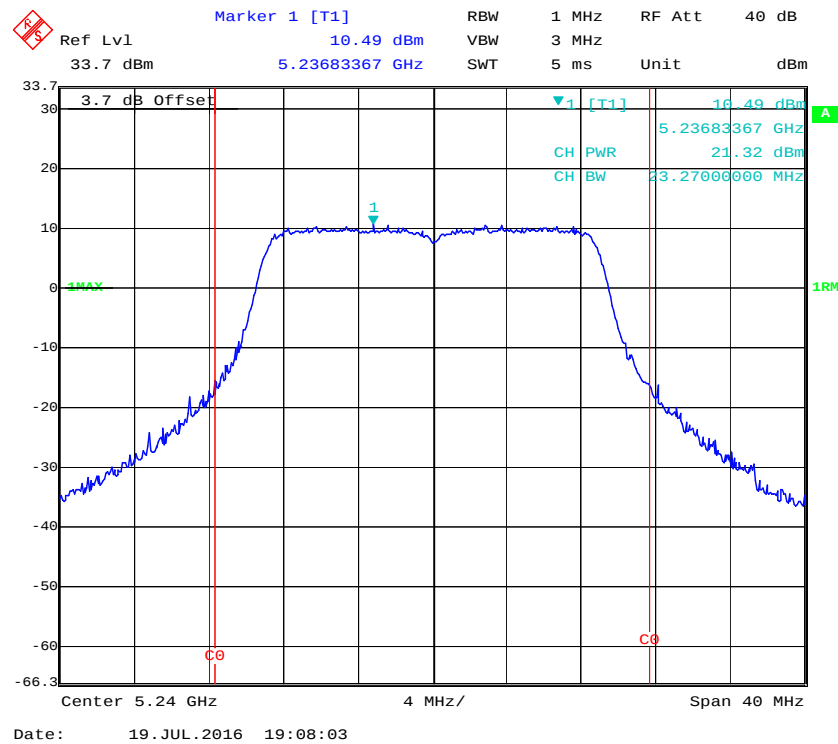
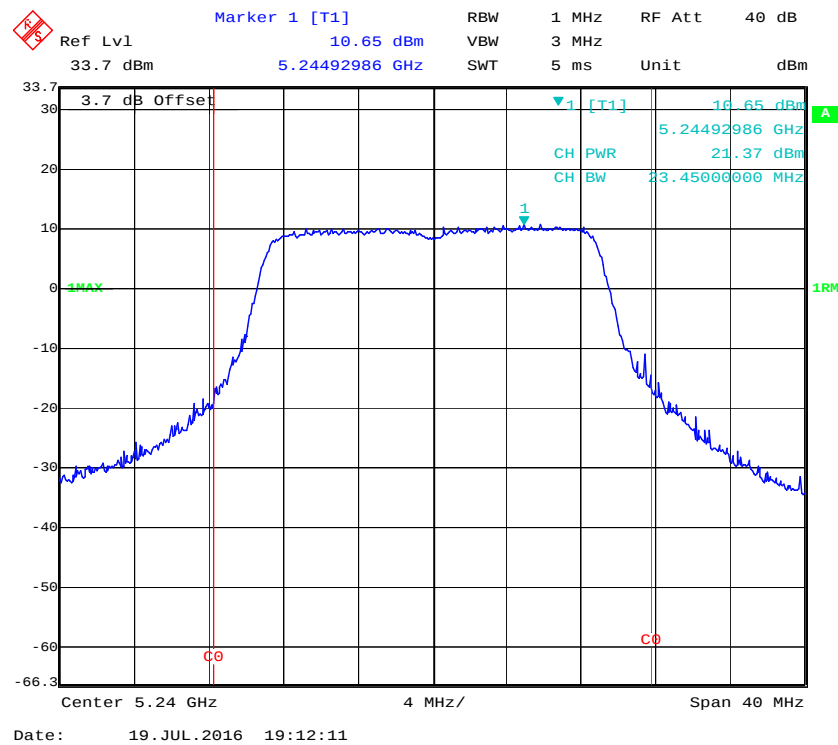
802.11n20 mode, RF Conducted Output Power, Antenn 0, 5200 MHz

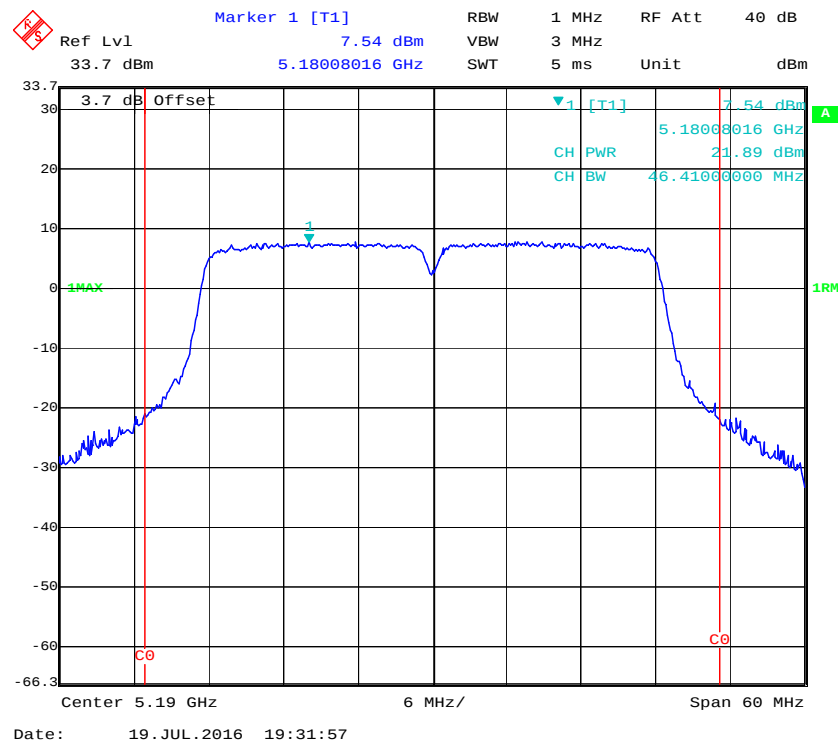
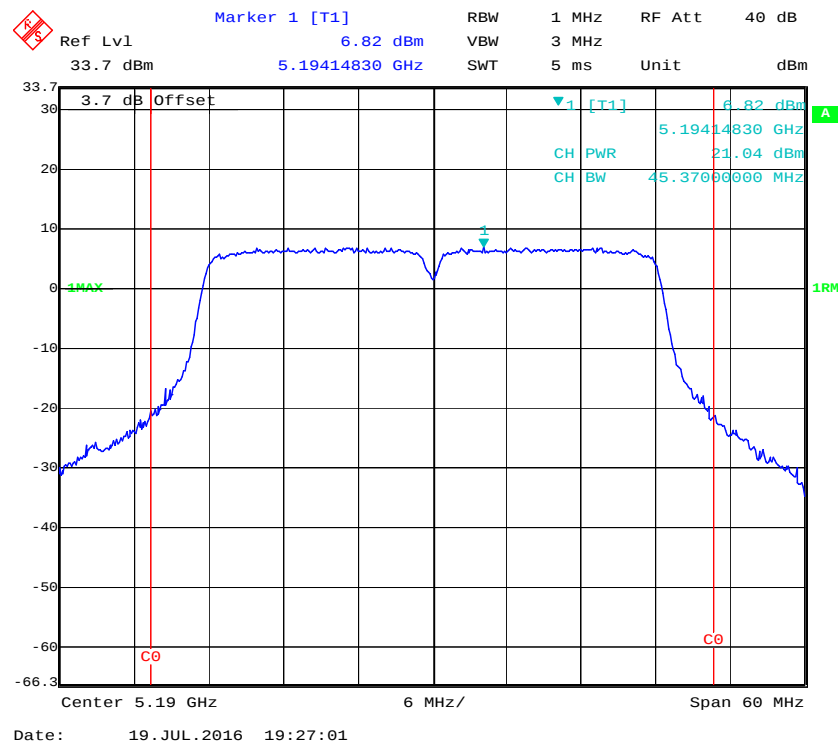


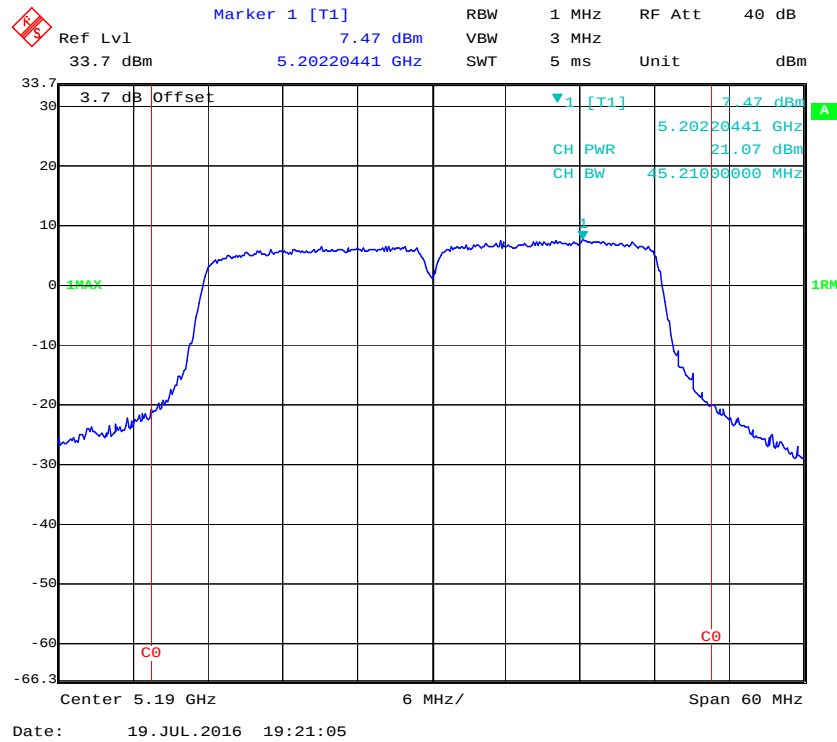
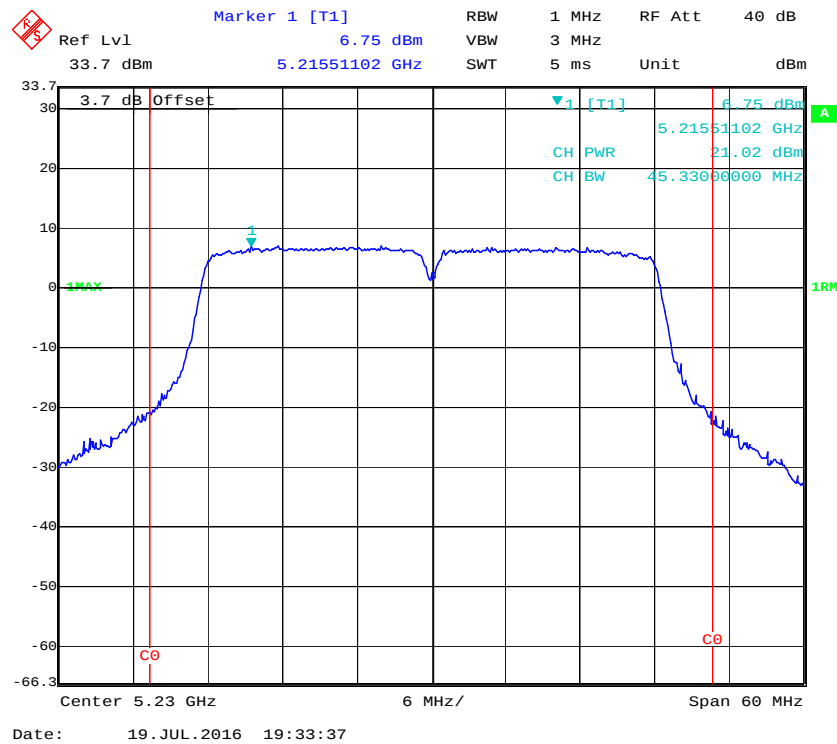
802.11n20 mode, RF Conducted Output Power, Antenn 1, 5200 MHz



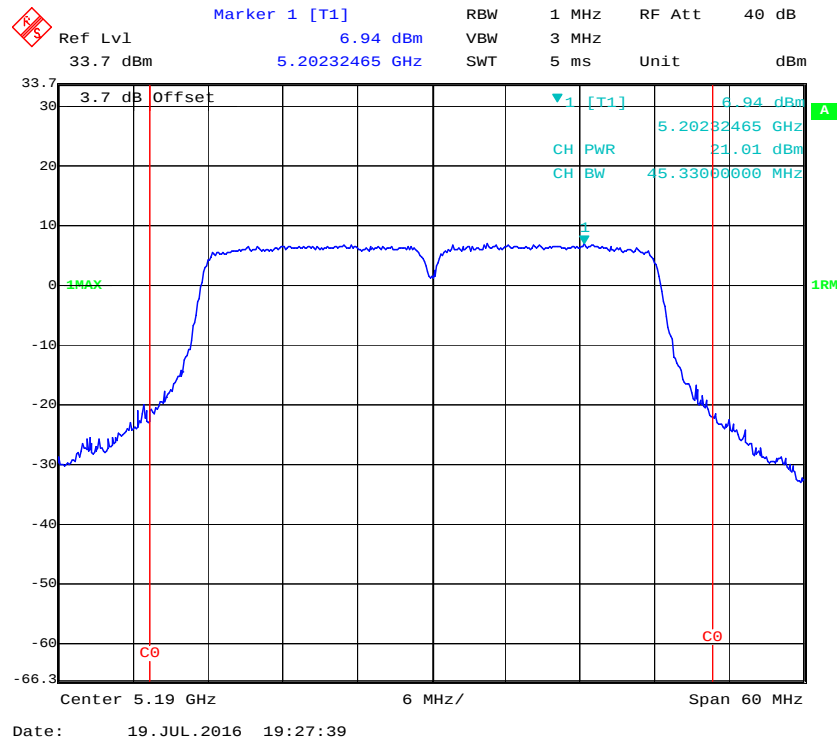
802.11n20 mode, RF Conducted Output Power, Antenn 2, 5200 MHz**802.11n20 mode, RF Conducted Output Power, Antenn 0, 5240 MHz**

802.11n20 mode, RF Conducted Output Power, Antenn 1, 5240 MHz**802.11n20 mode, RF Conducted Output Power, Antenn 2, 5240 MHz**

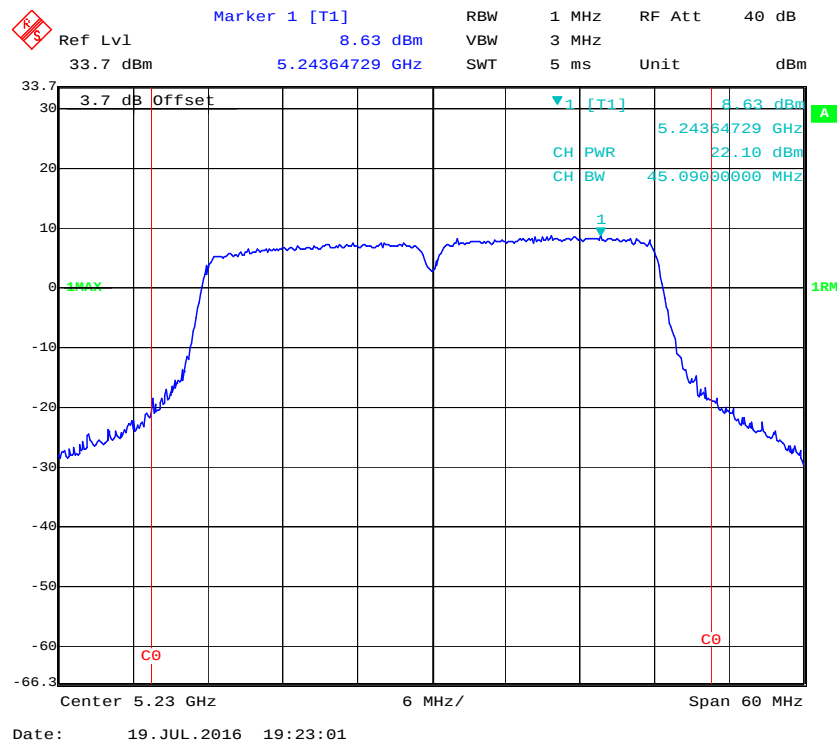
802.11n40 mode, RF Conducted Output Power, Antenn 0, 5190 MHz**802.11n40 mode, RF Conducted Output Power, Antenn 1, 5190 MHz**

802.11n40 mode, RF Conducted Output Power, Antenn 2, 5190 MHz**802.11n40 mode, RF Conducted Output Power, Antenn 0, 5230 MHz**

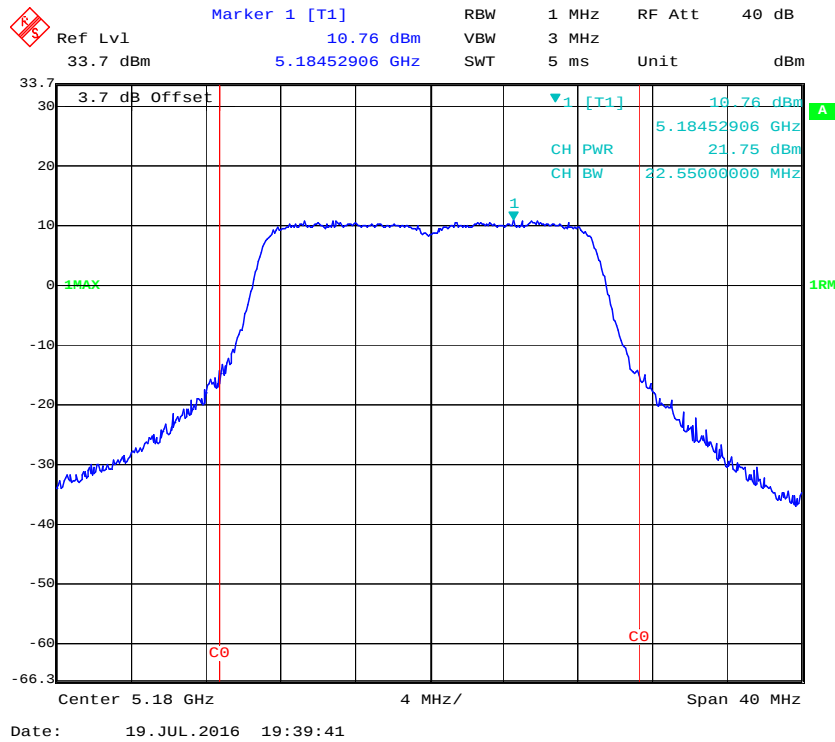
802.11n40 mode, RF Conducted Output Power, Antenn 1, 5230 MHz



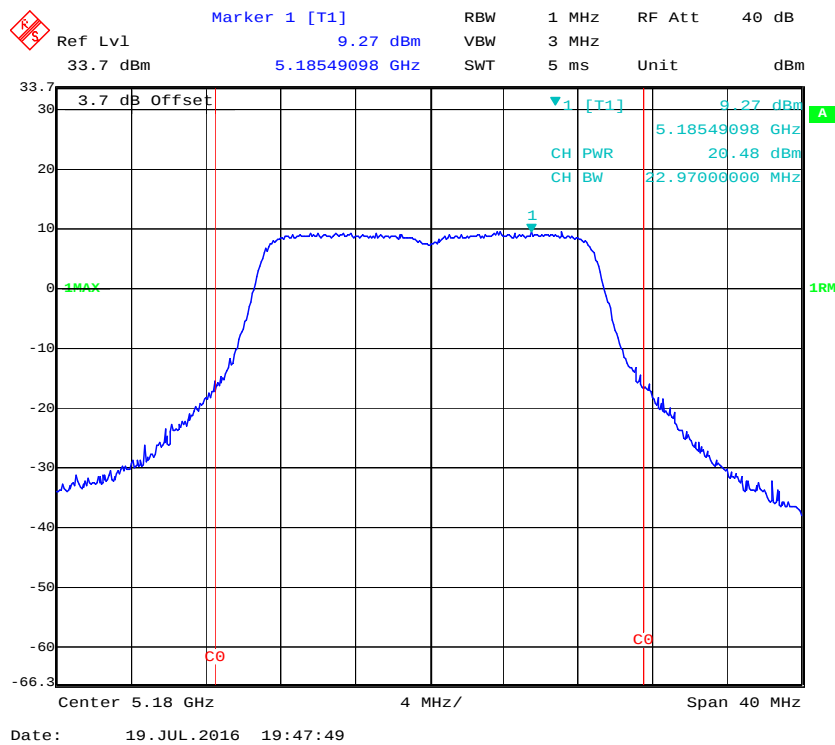
802.11n40 mode, RF Conducted Output Power, Antenn 2, 5230 MHz



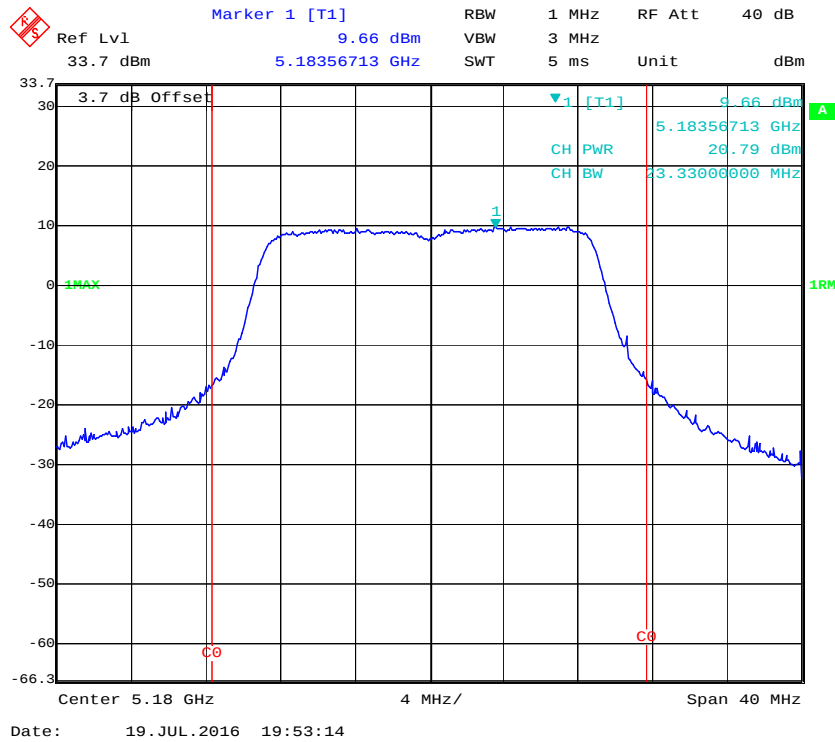
802.11ac20 mode, RF Conducted Output Power, Antenn 0, 5180 MHz



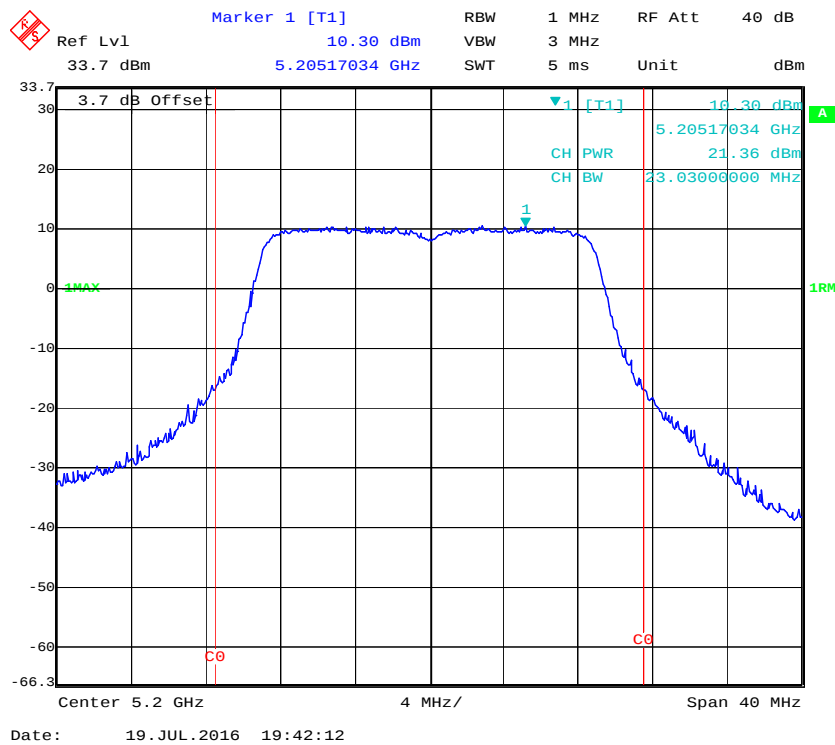
802.11ac20 mode, RF Conducted Output Power, Antenn 1, 5180 MHz



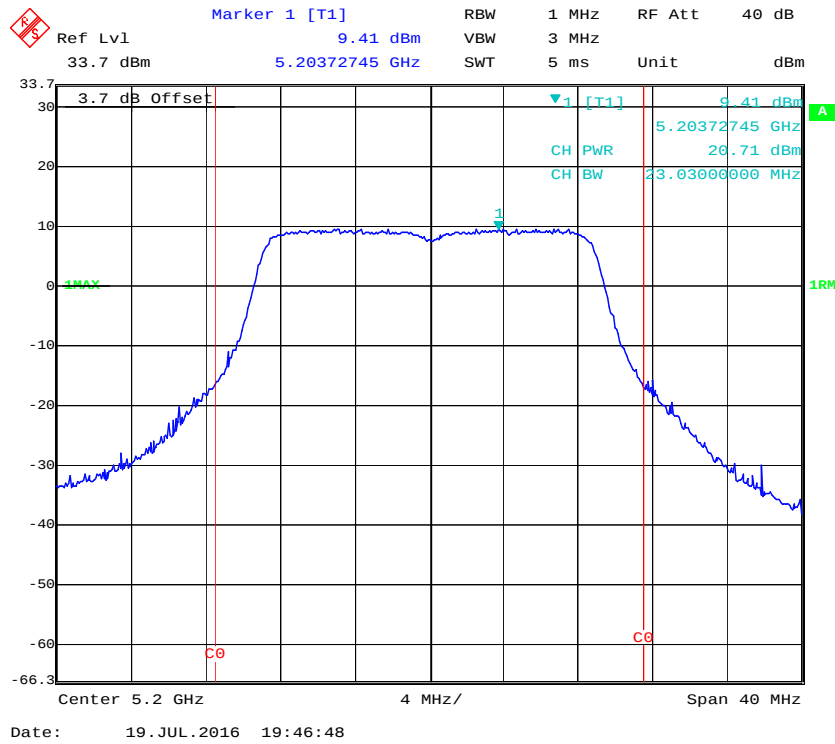
802.11ac20 mode, RF Conducted Output Power, Antenn 2, 5180 MHz



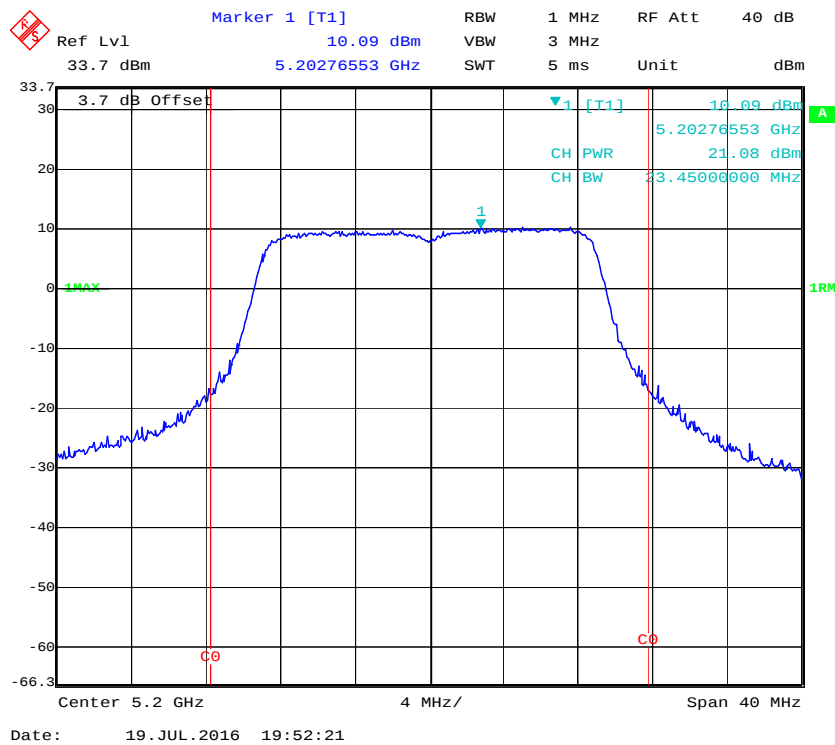
802.11ac20 mode, RF Conducted Output Power, Antenn 0, 5200 MHz



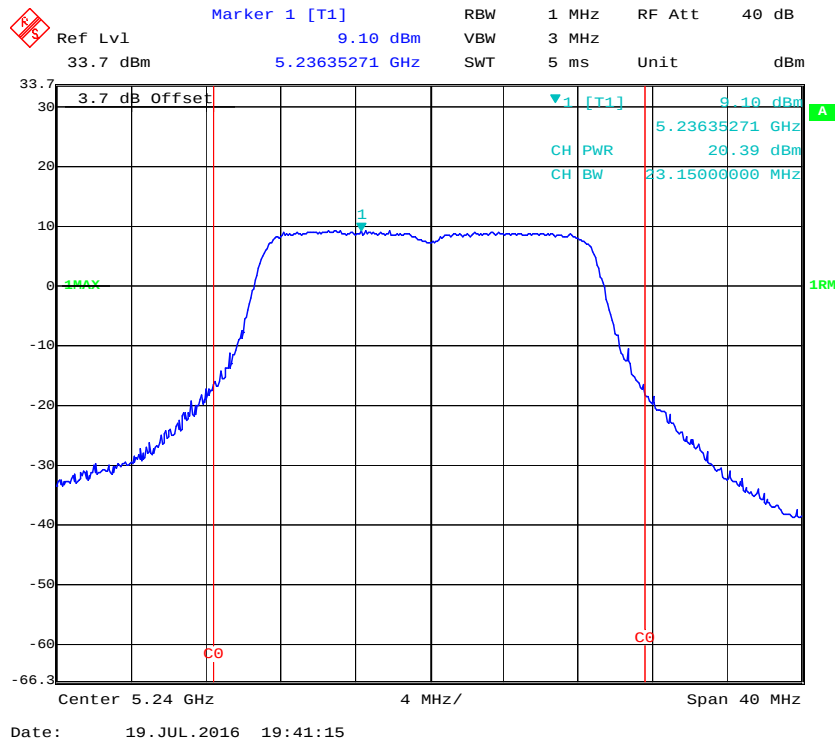
802.11ac20 mode, RF Conducted Output Power, Antenn 1, 5200 MHz



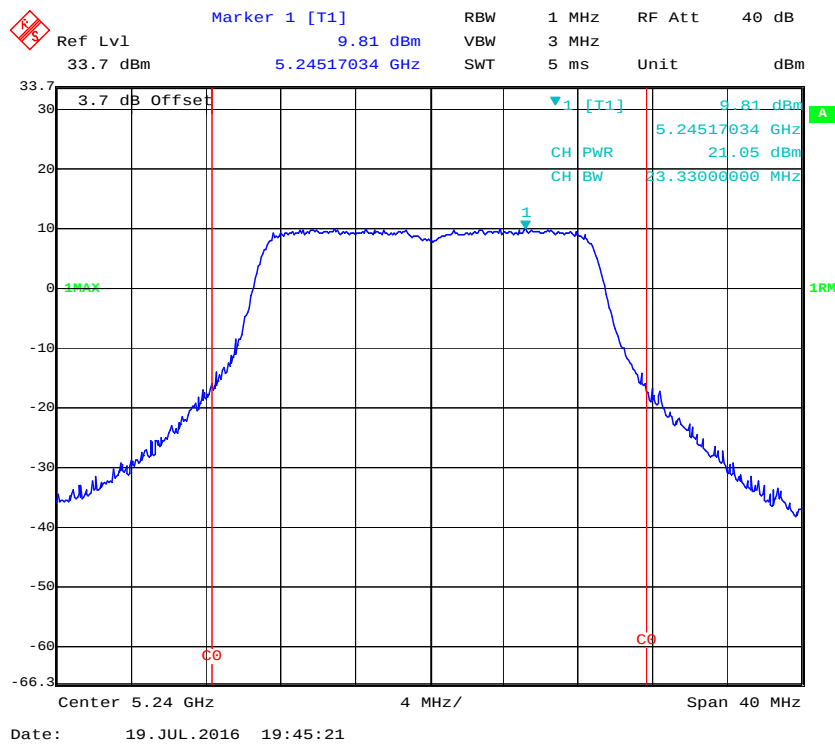
802.11ac20 mode, RF Conducted Output Power, Antenn 2, 5200 MHz

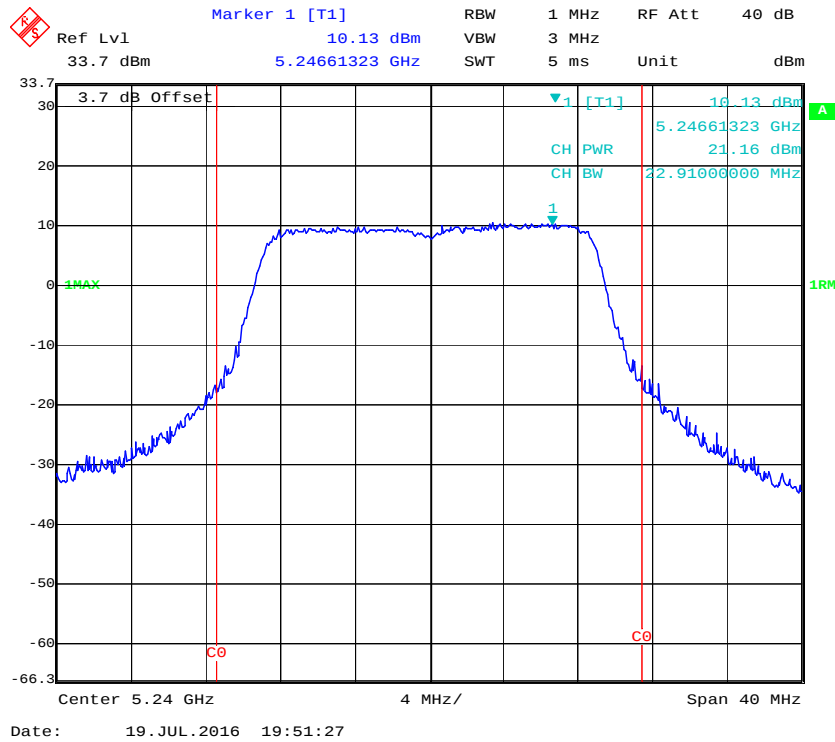
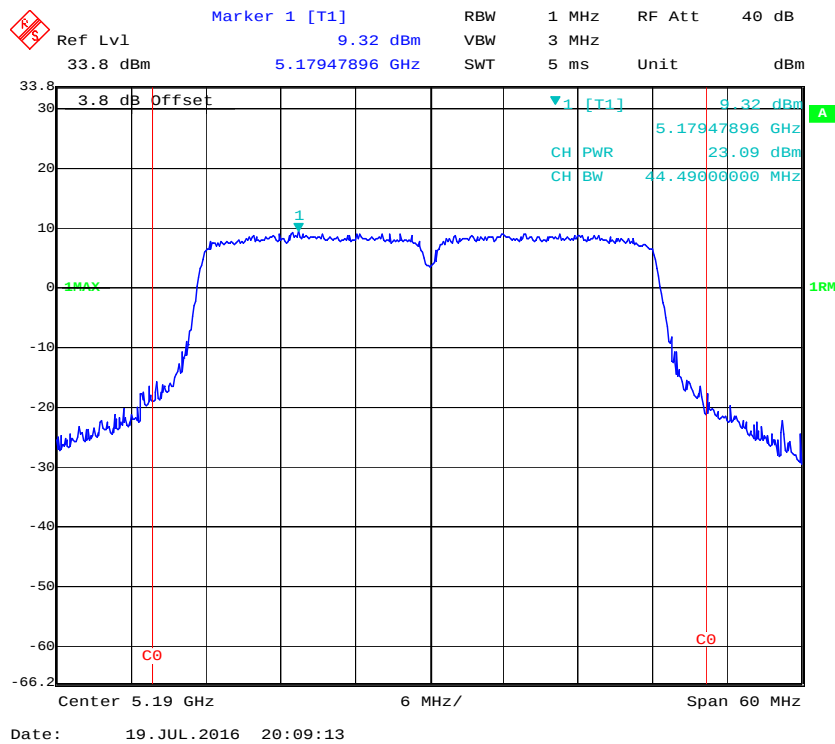


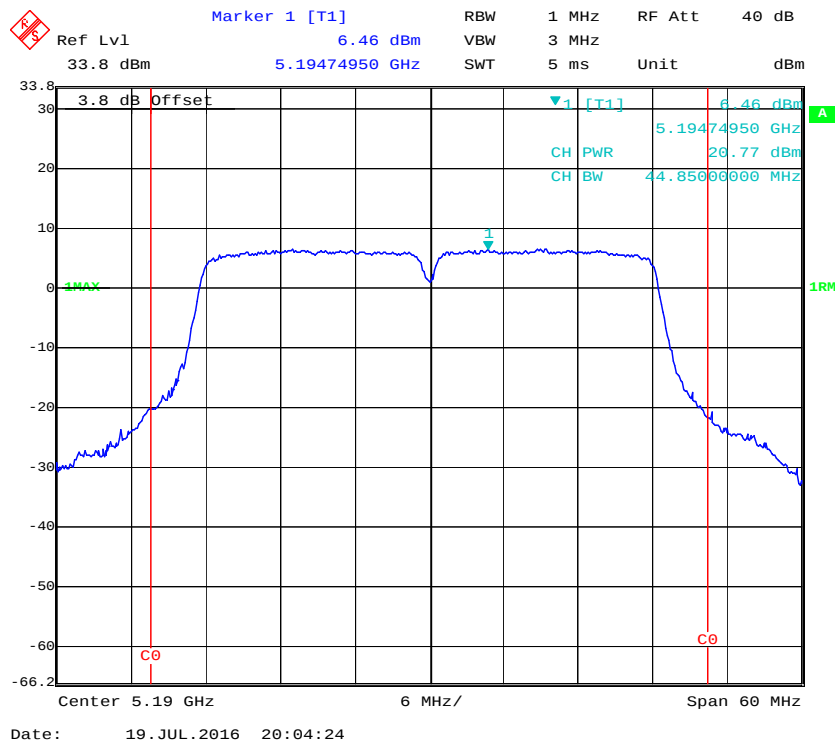
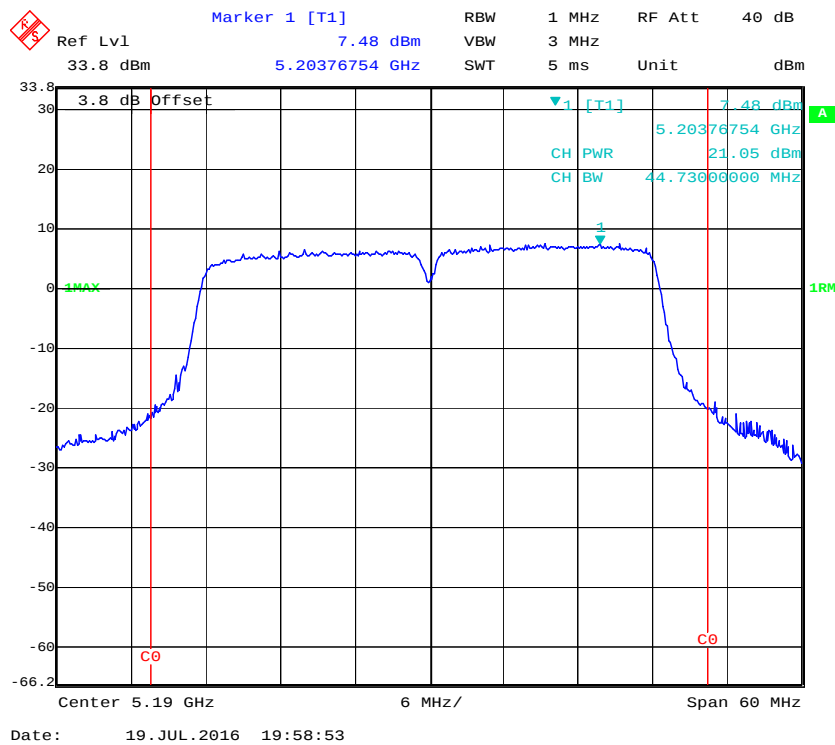
802.11ac20 mode, RF Conducted Output Power, Antenn 0, 5240 MHz

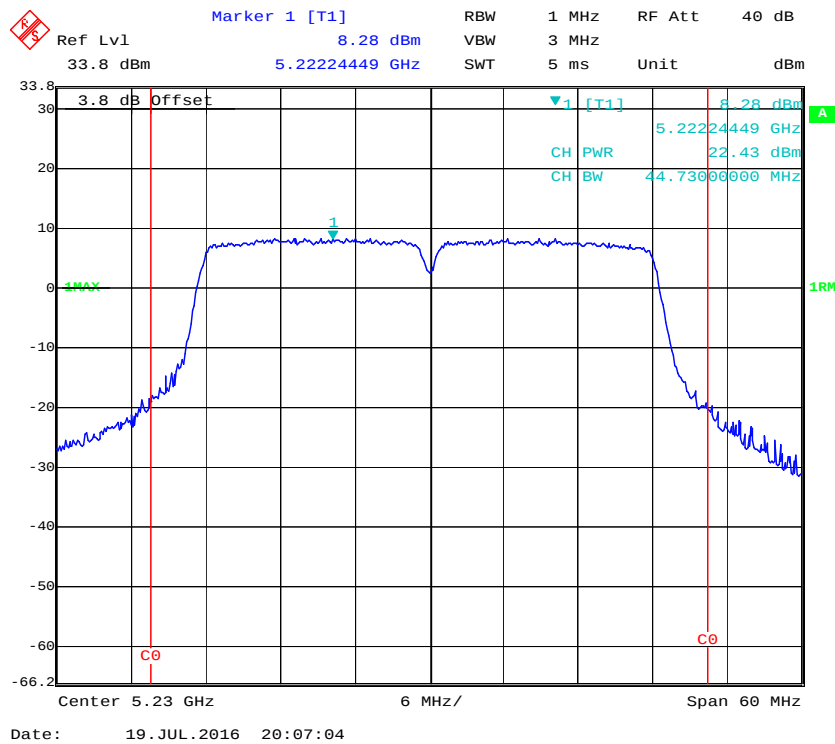
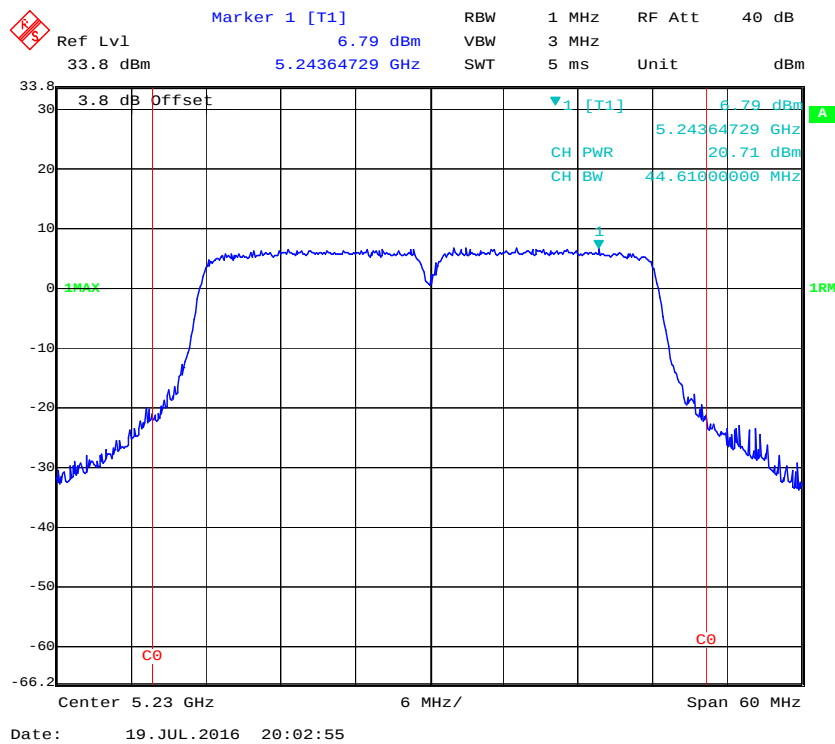


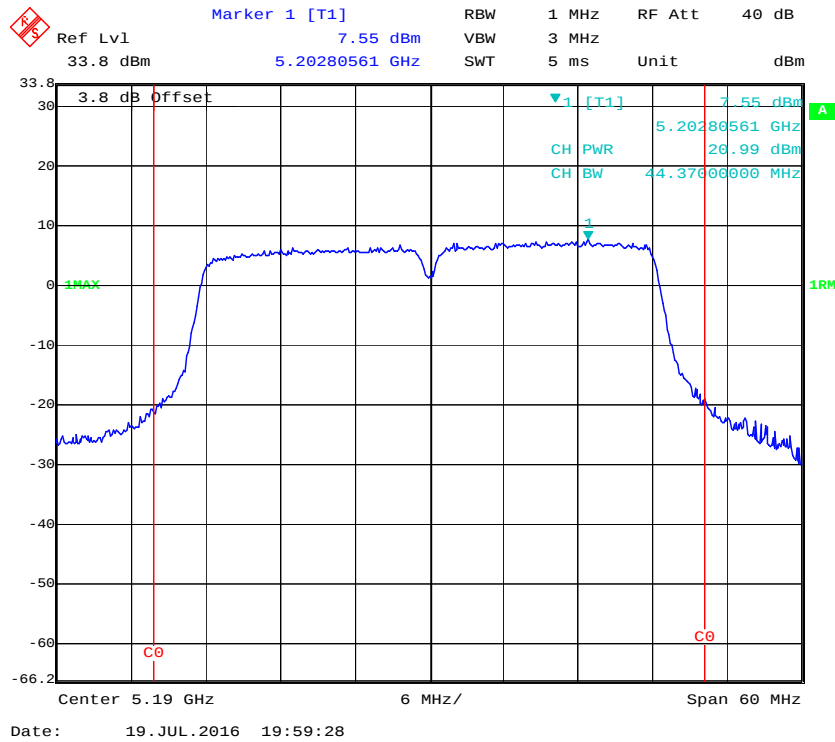
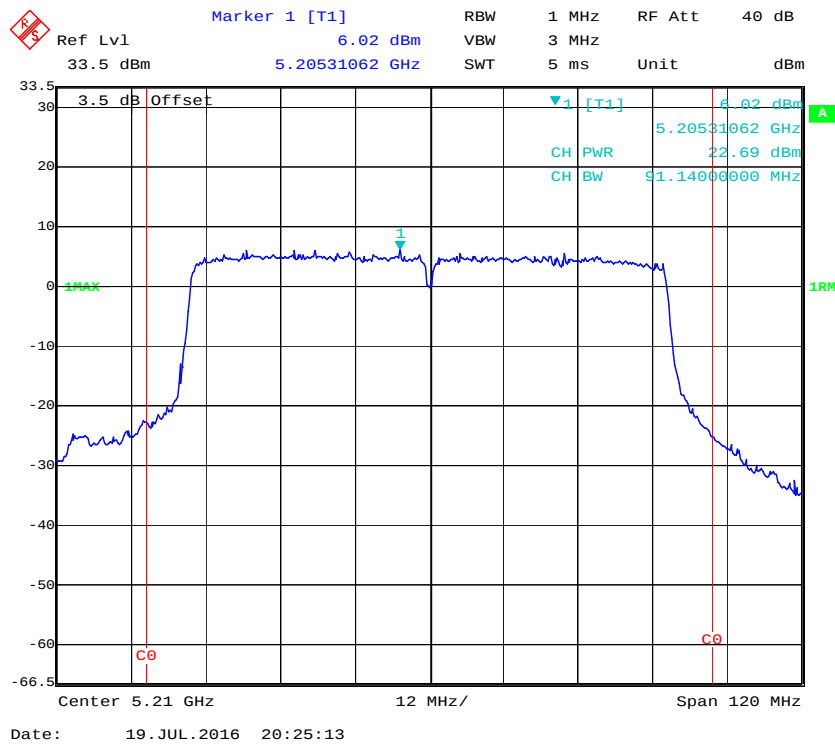
802.11ac20 mode, RF Conducted Output Power, Antenn 1, 5240 MHz

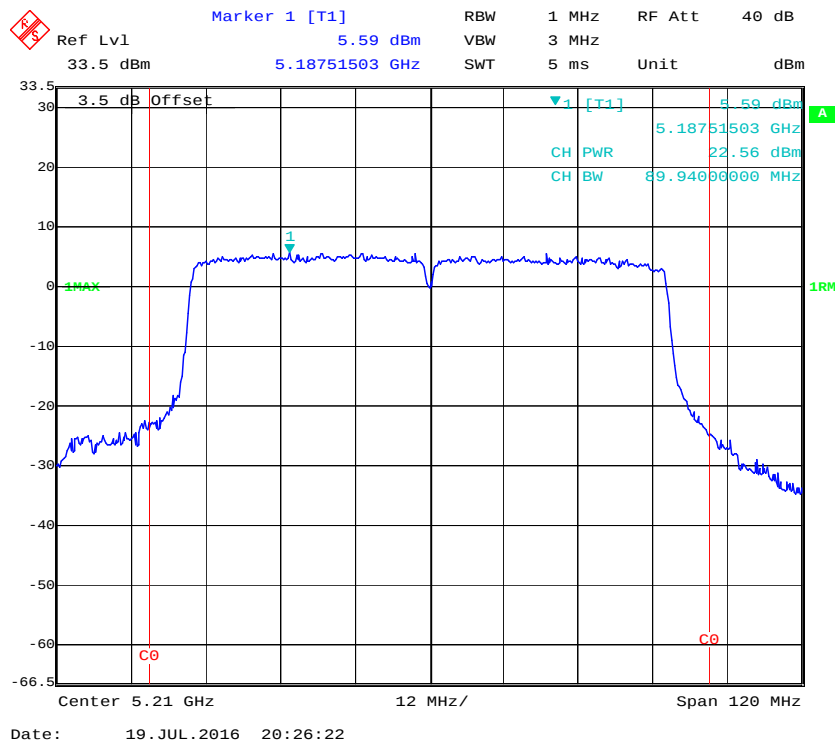
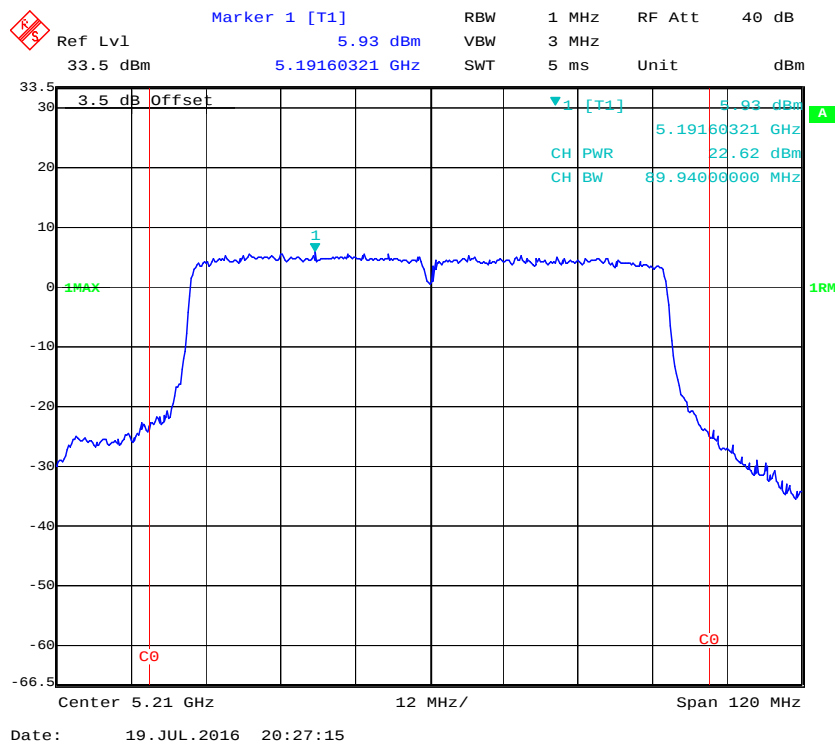


802.11ac20 mode, RF Conducted Output Power, Antenn 2, 5240 MHz**802.11ac40 mode, RF Conducted Output Power, Antenn 0, 5190 MHz**

802.11ac40 mode, RF Conducted Output Power, Antenn 1, 5190 MHz**802.11ac40 mode, RF Conducted Output Power, Antenn 2, 5190 MHz**

802.11ac40 mode, RF Conducted Output Power, Antenn 0, 5230 MHz**802.11ac40 mode, RF Conducted Output Power, Antenn 1, 5230 MHz**

802.11ac40 mode, RF Conducted Output Power, Antenn 2, 5230 MHz**802.11ac80 mode, RF Conducted Output Power, Antenn 0, 5210 MHz**

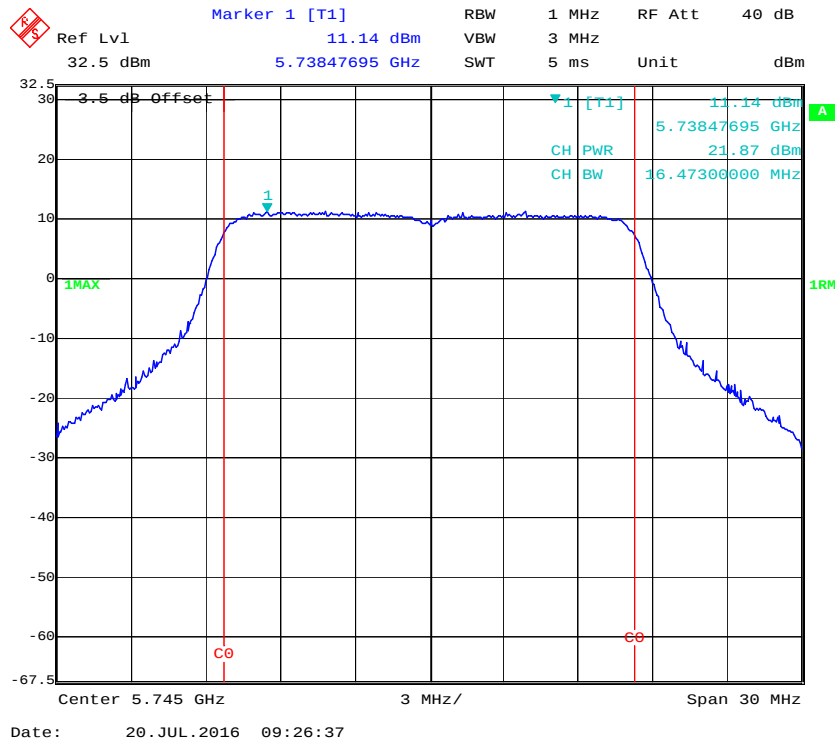
802.11ac80 mode, RF Conducted Output Power, Antenn 1, 5210 MHz**802.11ac80 mode, RF Conducted Output Power, Antenn 2, 5210 MHz**

5725 MHz – 5825 MHz:

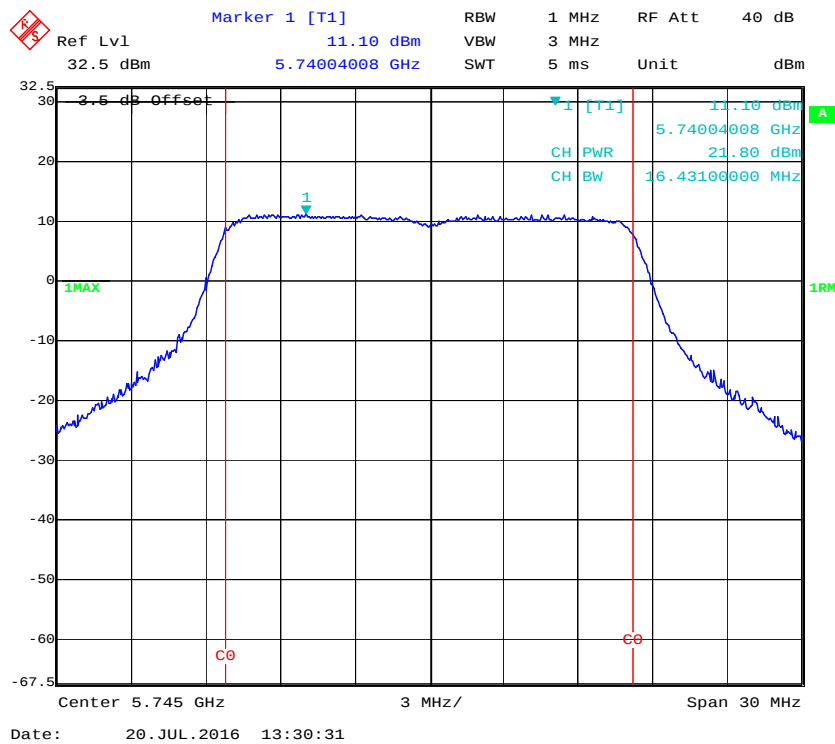
Frequency (MHz)	Antenna Port	Output Power (dBm)	Sum Output Power (dBm) Chain0+Chain1+chain 2	Limit (dBm)
802.11a				
5745	0	21.87	26.252	30
	1	21.80		
	2	20.67		
5785	0	21.54	25.824	
	1	20.68		
	2	20.89		
5825	0	20.56	25.497	
	1	20.70		
	2	20.91		
802.11n20				
5745	0	21.52	25.968	30
	1	21.00		
	2	21.05		
5785	0	21.06	25.906	
	1	21.31		
	2	21.03		
5825	0	20.39	25.621	
	1	21.21		
	2	20.91		
802.11n40				
5755	0	21.37	25.643	30
	1	20.61		
	2	20.59		
5795	0	20.88	25.506	
	1	20.73		
	2	20.59		

Frequency (MHz)	Antenna Port	Output Power (dBm)	Sum Output Power (dBm) Chain0+Chain1+chain 2	Limit (dBm)
802.11ac20				
5745	0	22.21	26.201	30
	1	21.00		
	2	20.96		
5785	0	22.03	26.251	
	1	21.28		
	2	21.07		
5825	0	21.16	25.845	
	1	21.22		
	2	20.83		
802.11ac40				
5755	0	22.27	26.405	30
	1	21.52		
	2	21.02		
5795	0	21.90	26.355	
	1	21.50		
	2	21.33		
802.11ac80				
5775	0	21.81	26.495	30
	1	21.67		
	2	21.69		

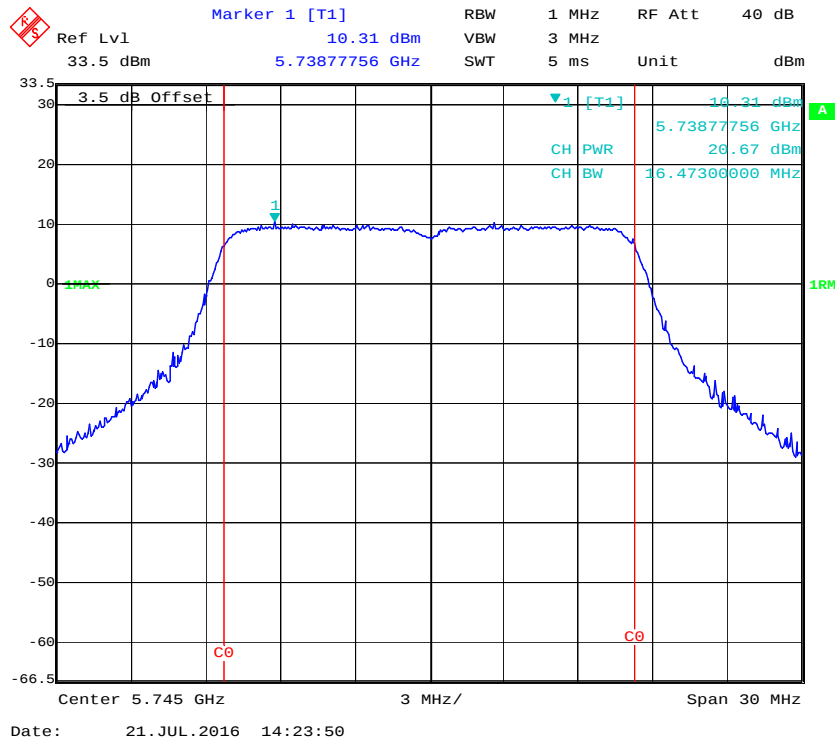
802.11a mode, RF Conducted Output Power, Antenn 0, 5745 MHz



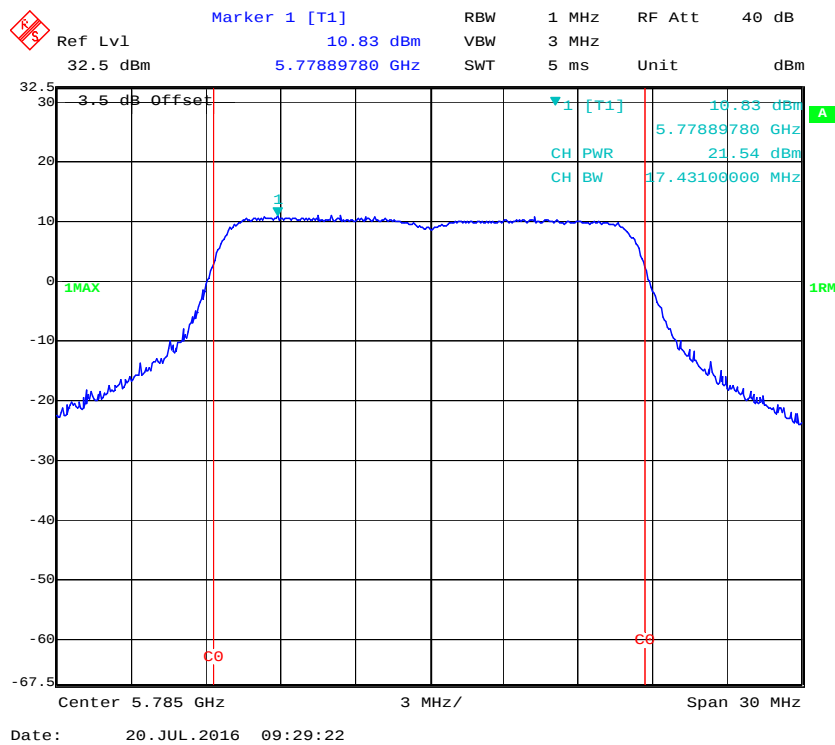
802.11a mode, RF Conducted Output Power, Antenn 1, 5745 MHz



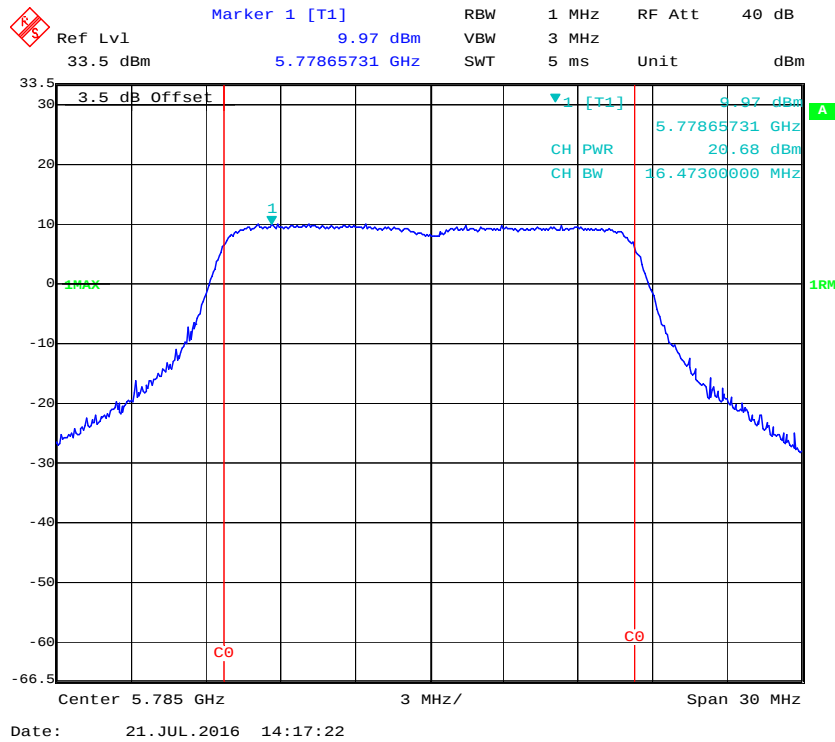
802.11a mode, RF Conducted Output Power, Antenn 2, 5745 MHz



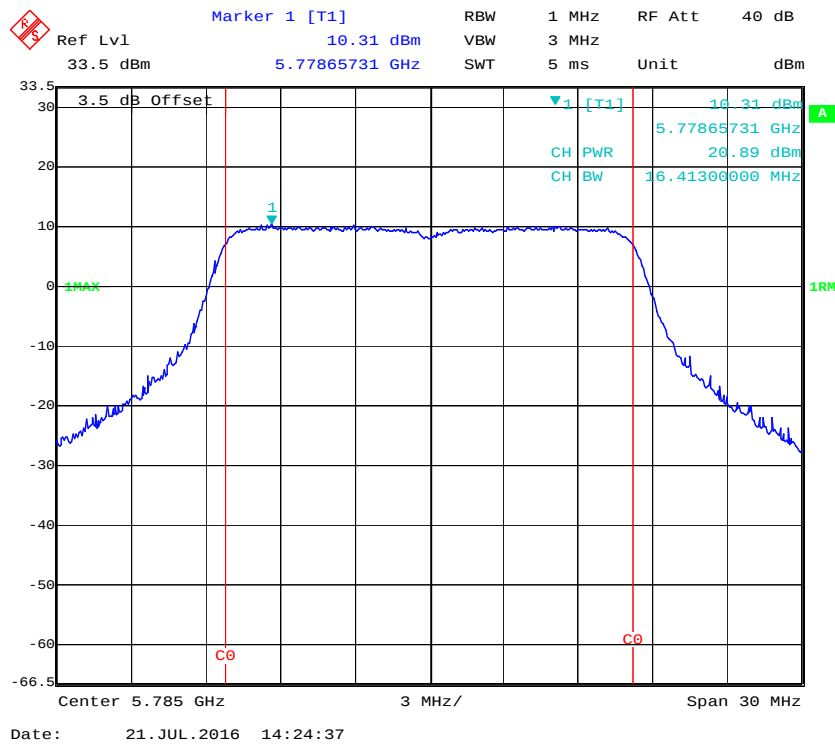
802.11a mode, RF Conducted Output Power, Antenn 0, 5785 MHz



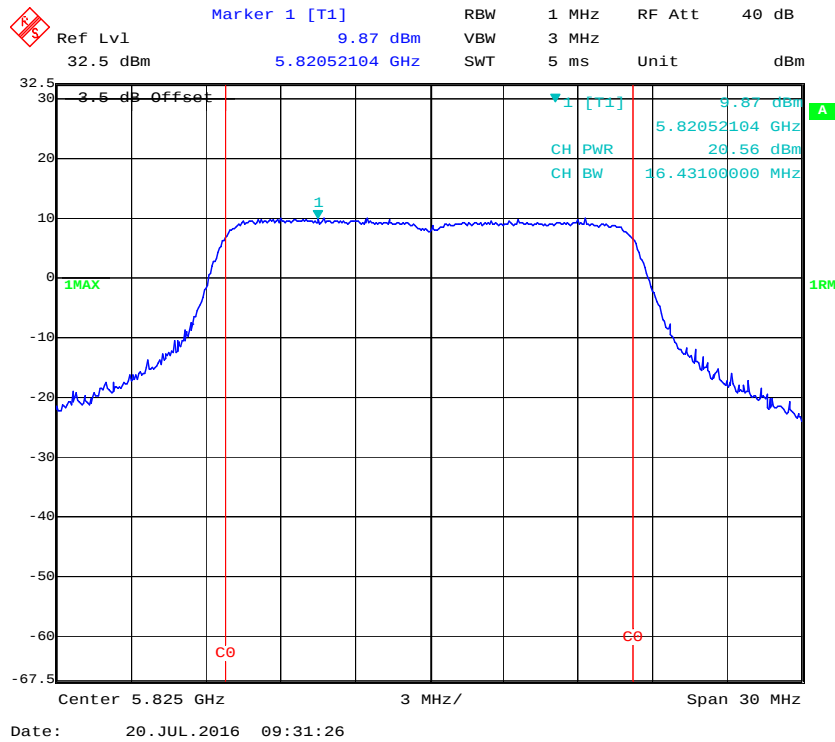
802.11a mode, RF Conducted Output Power, Antenn 1, 5785 MHz



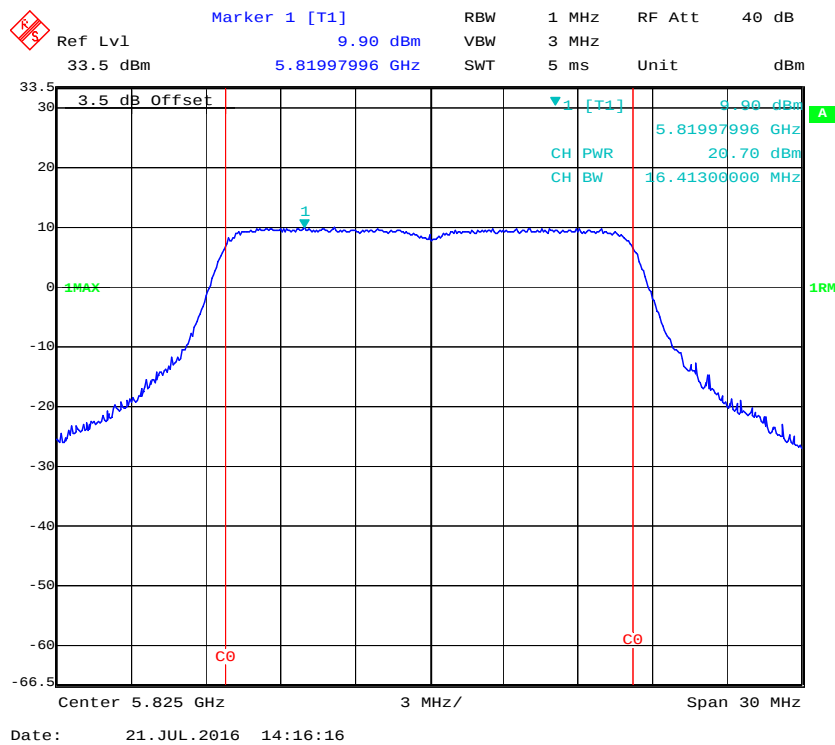
802.11a mode, RF Conducted Output Power, Antenn 2, 5785 MHz

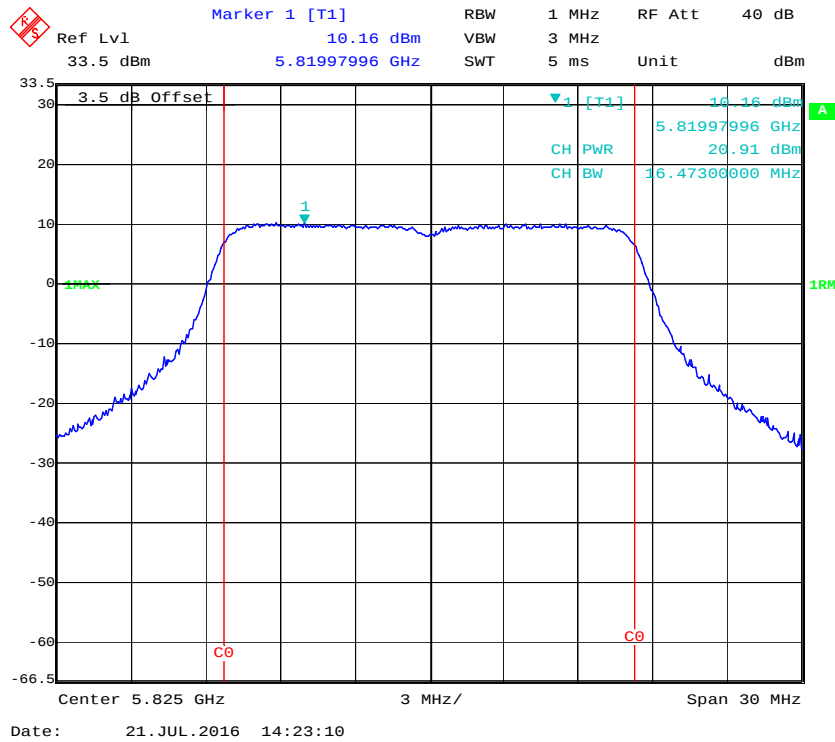
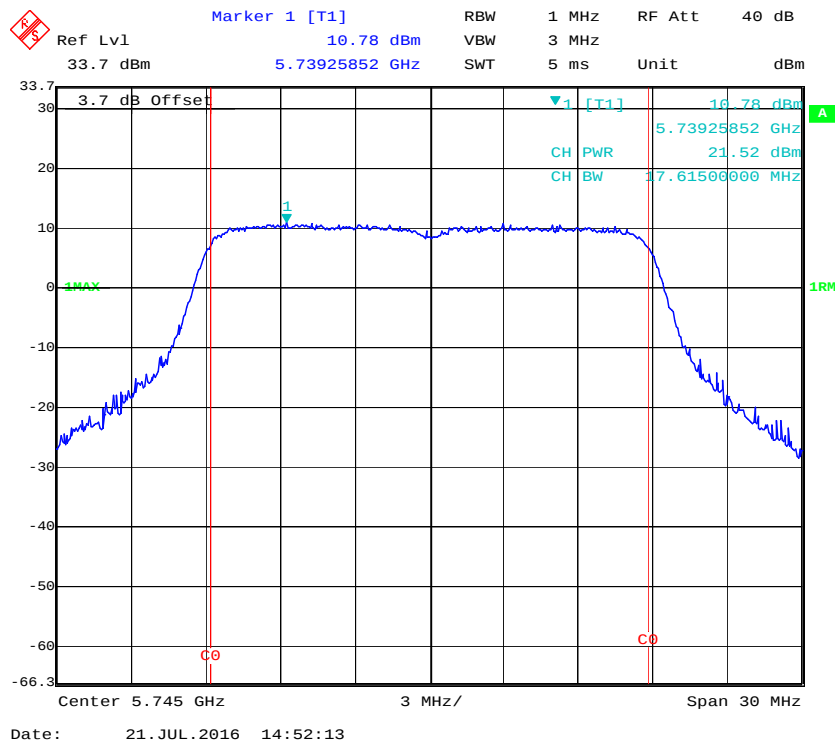


802.11a mode, RF Conducted Output Power, Antenn 0, 5825 MHz

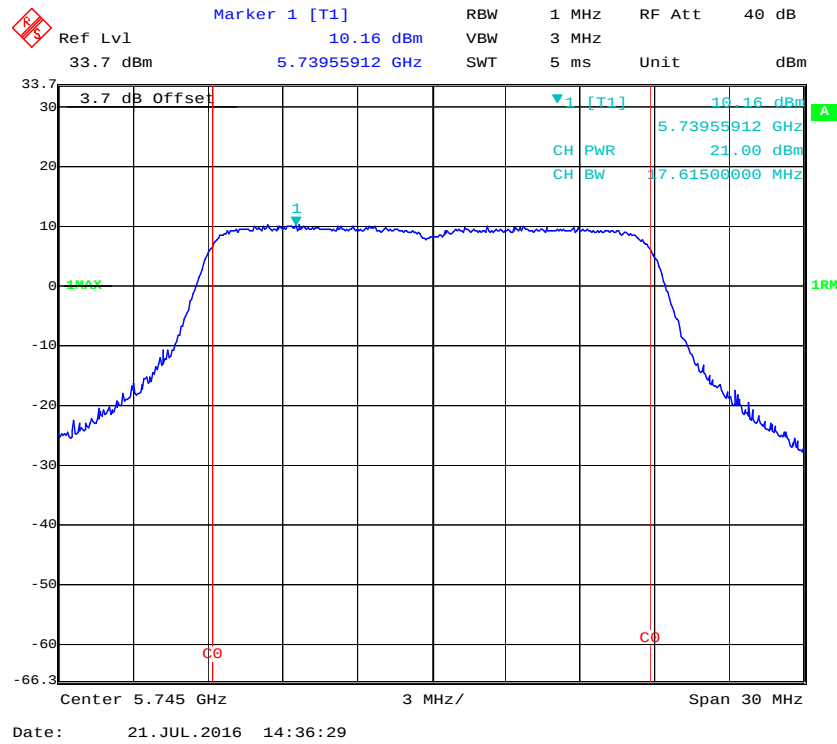


802.11a mode, RF Conducted Output Power, Antenn 1, 5825 MHz

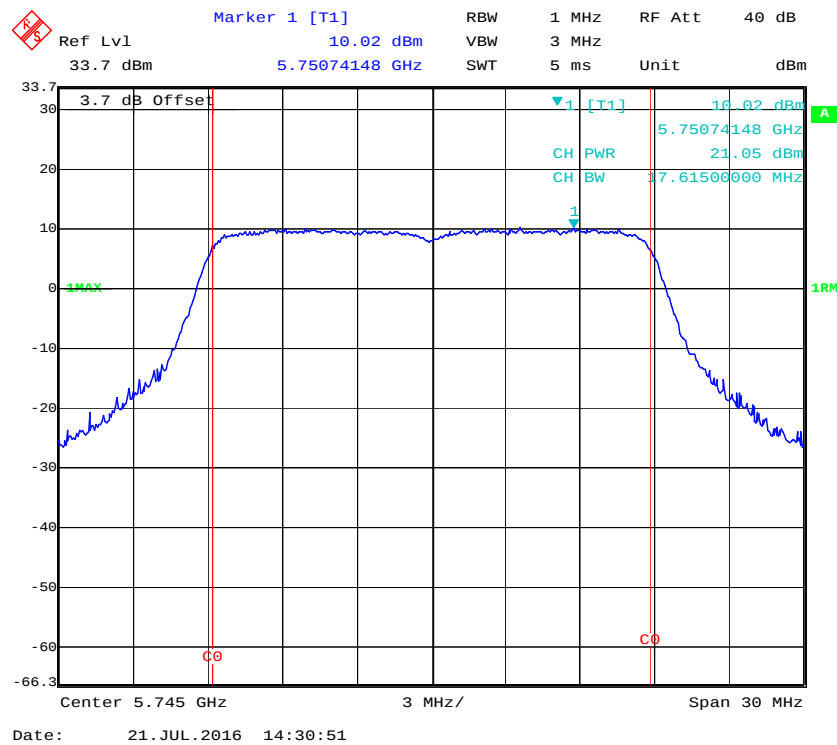


802.11a mode, RF Conducted Output Power, Antenn 2, 5825 MHz**802.11n20 mode, RF Conducted Output Power, Antenn 0, 5745 MHz**

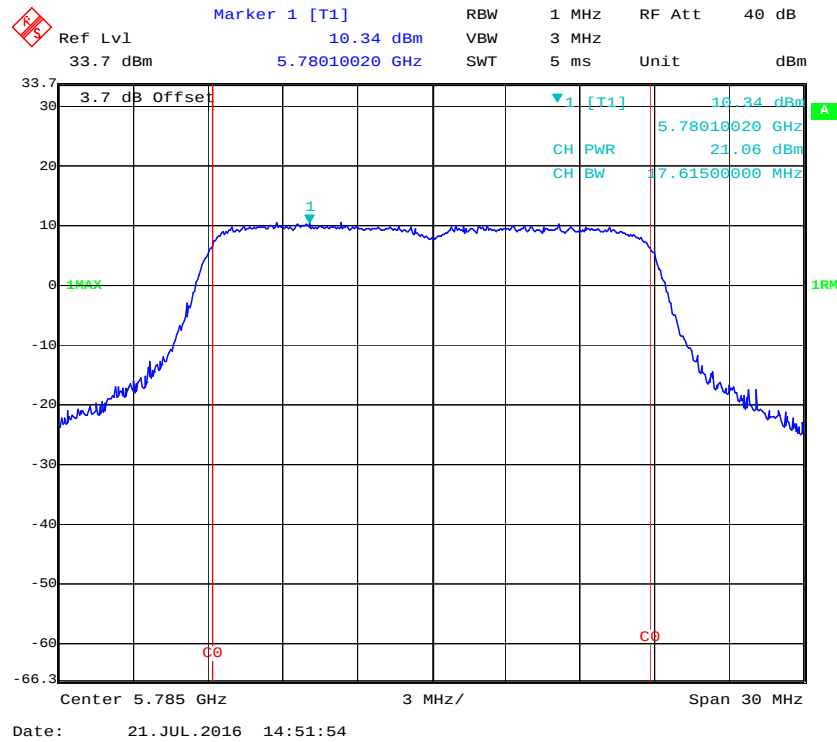
802.11n20 mode, RF Conducted Output Power, Antenn 1, 5745 MHz



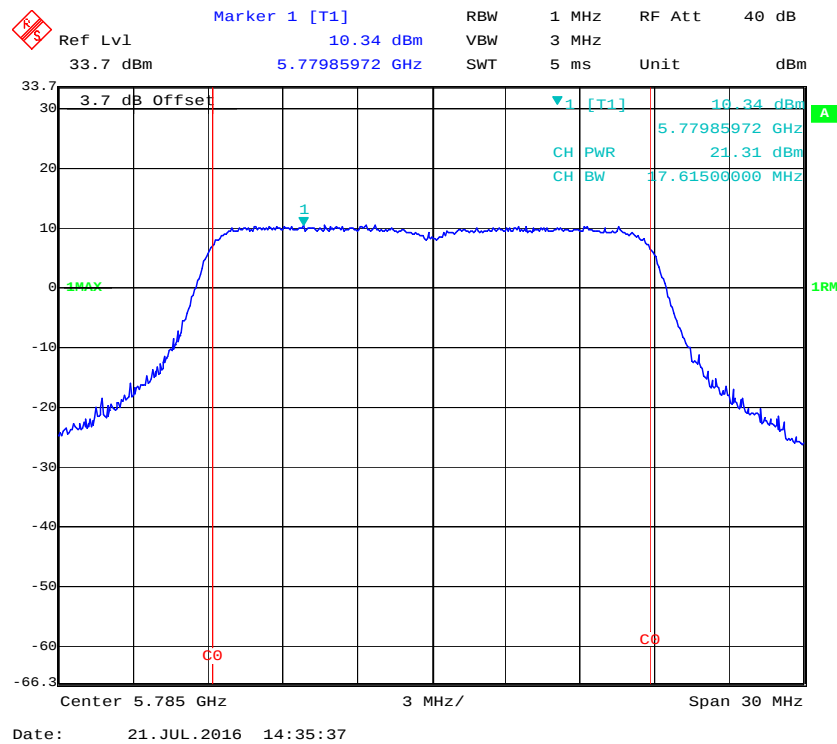
802.11n20 mode, RF Conducted Output Power, Antenn 2, 5745 MHz

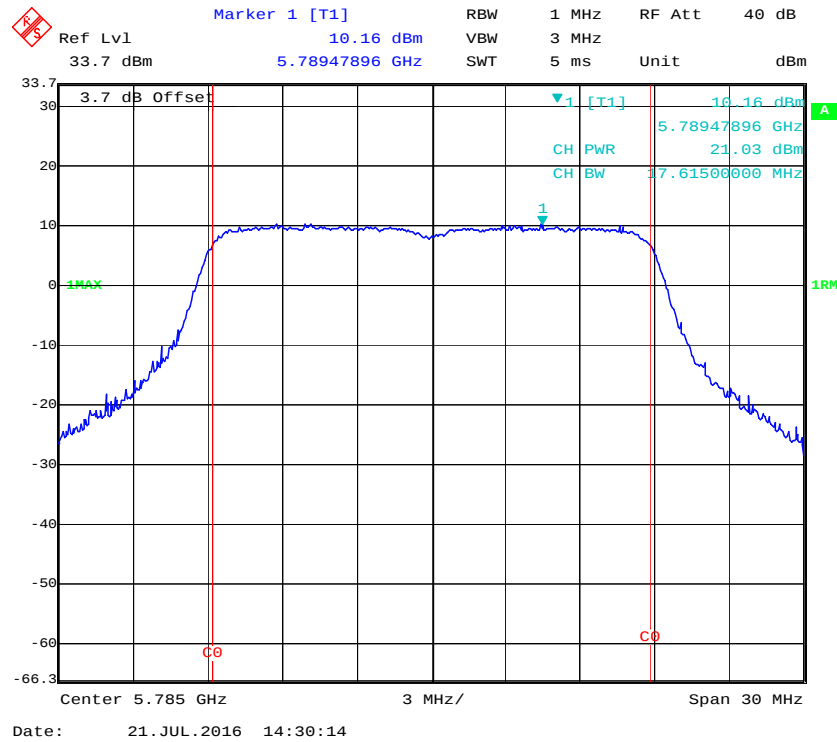
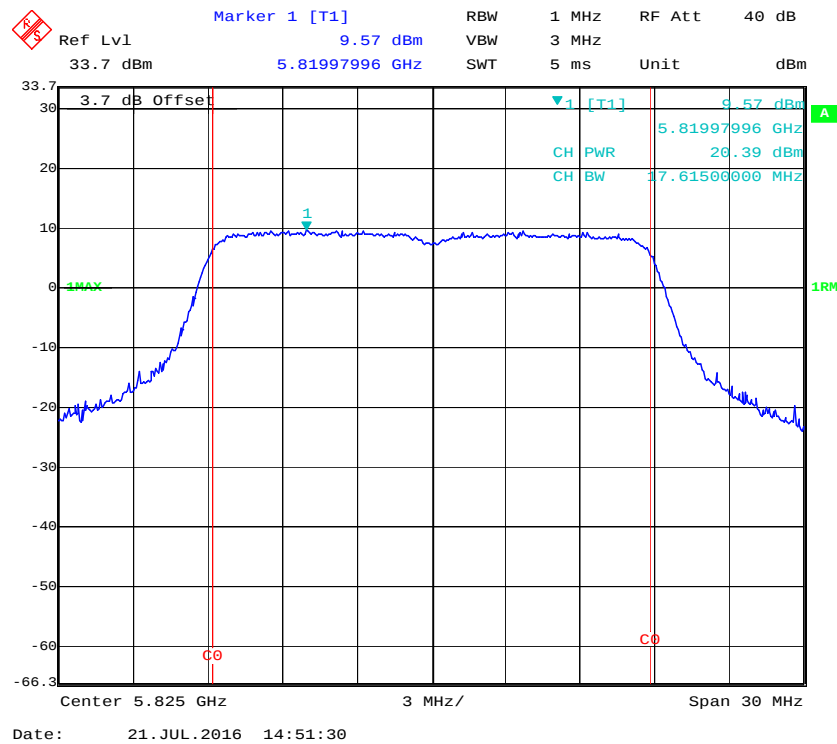


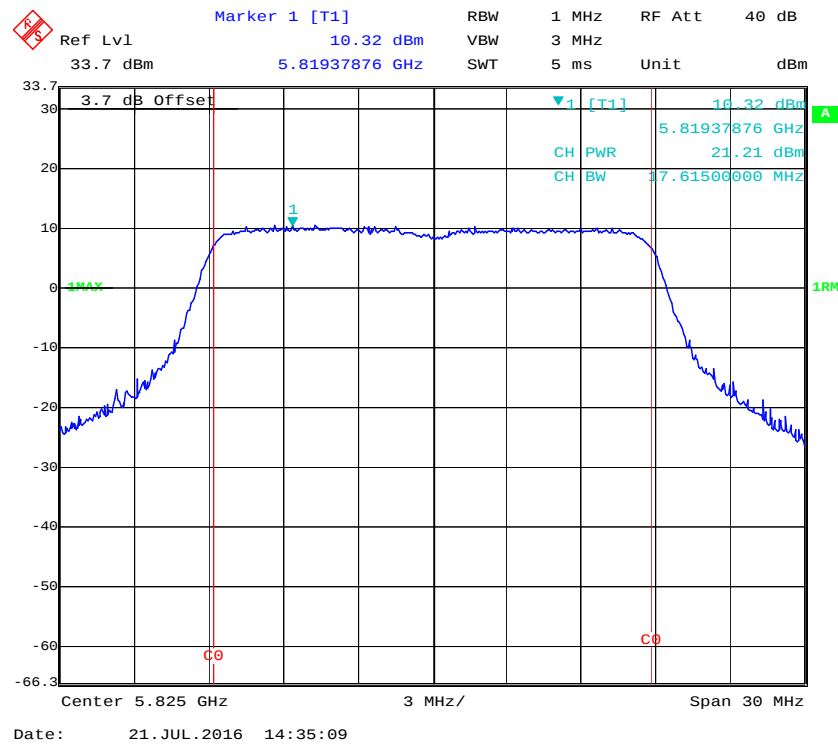
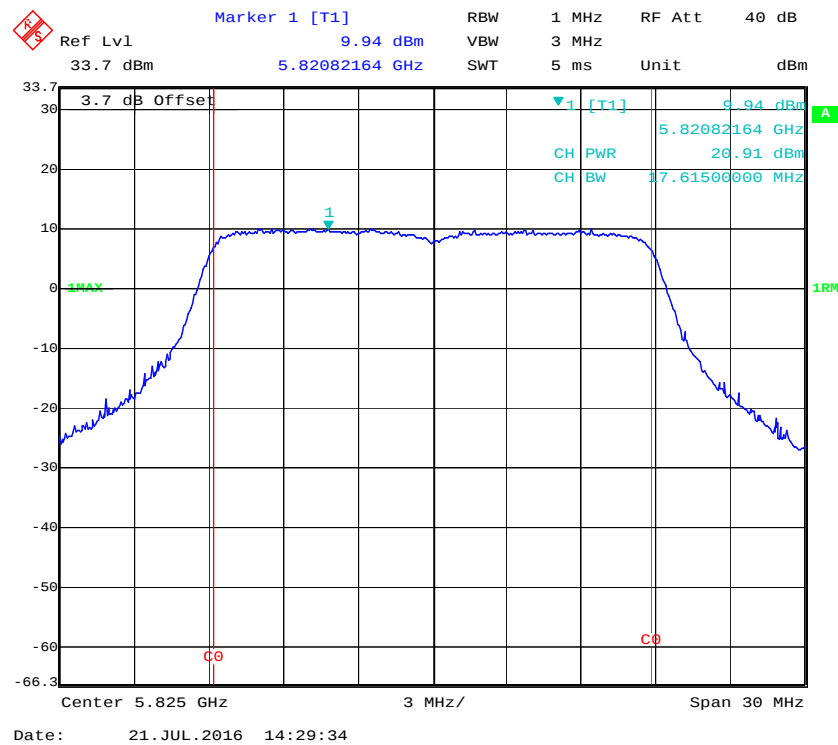
802.11n20 mode, RF Conducted Output Power, Antenn 0, 5785 MHz

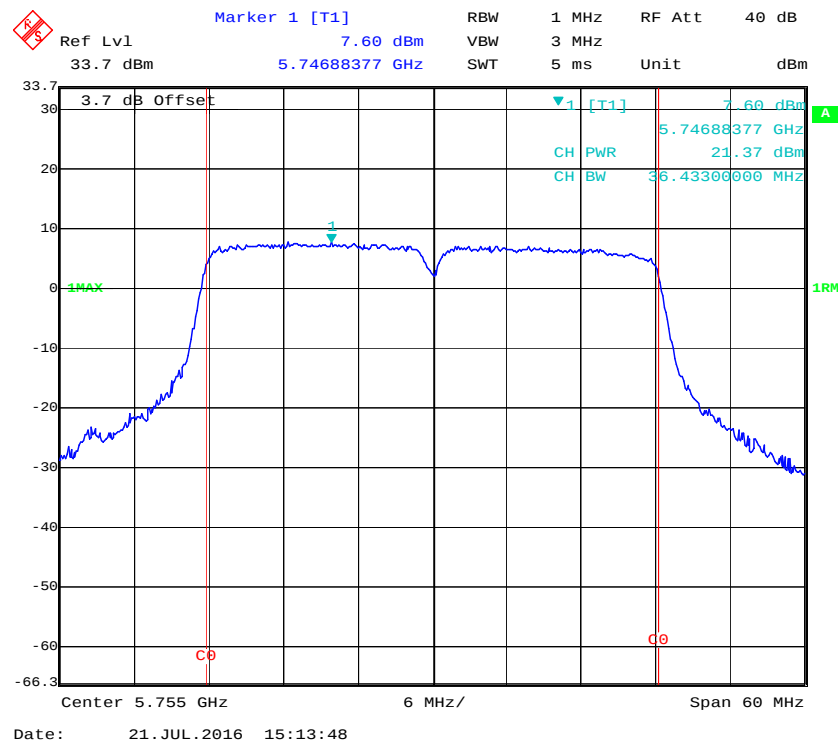
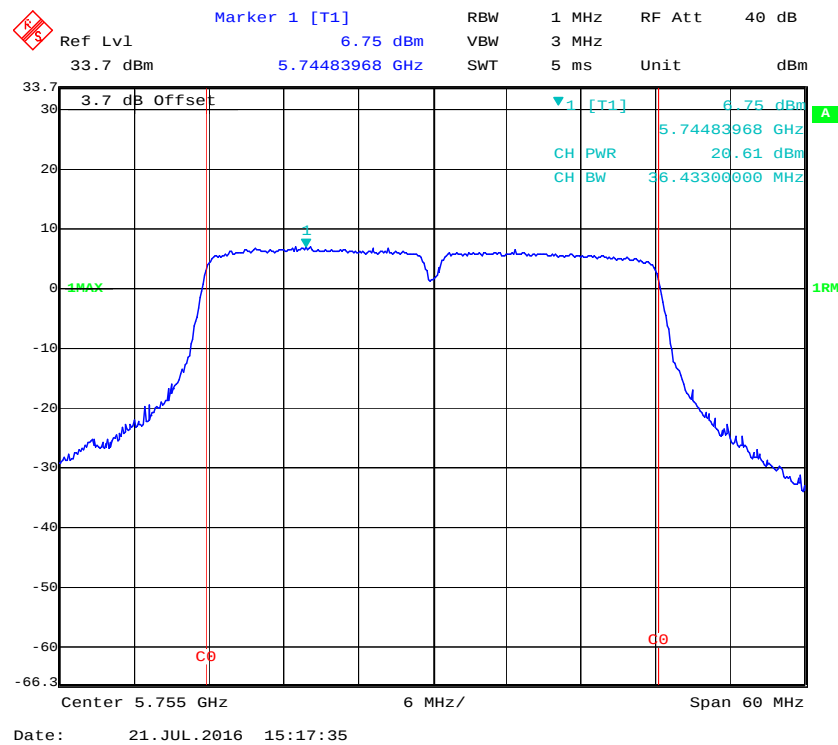


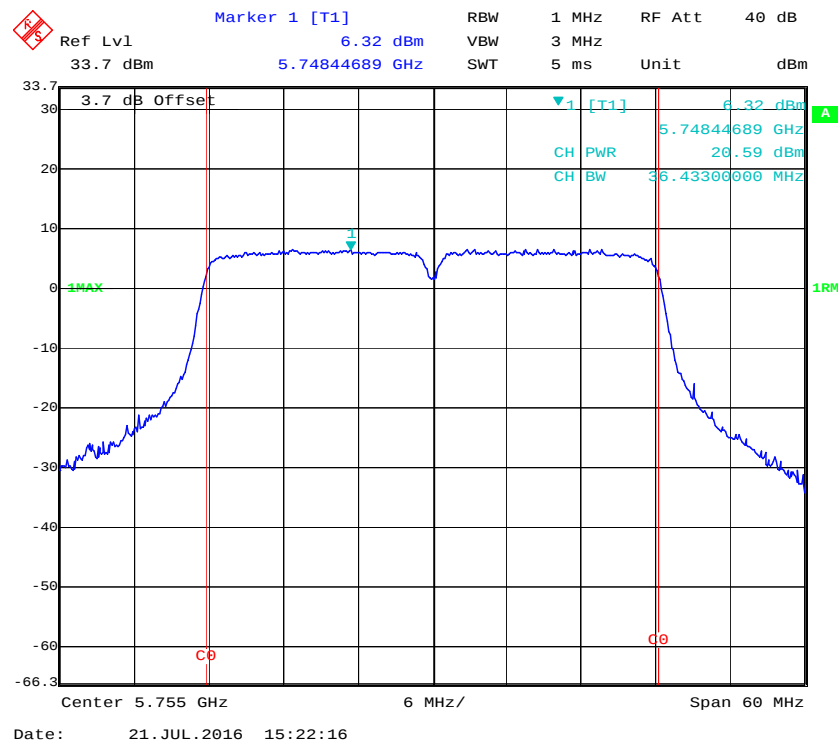
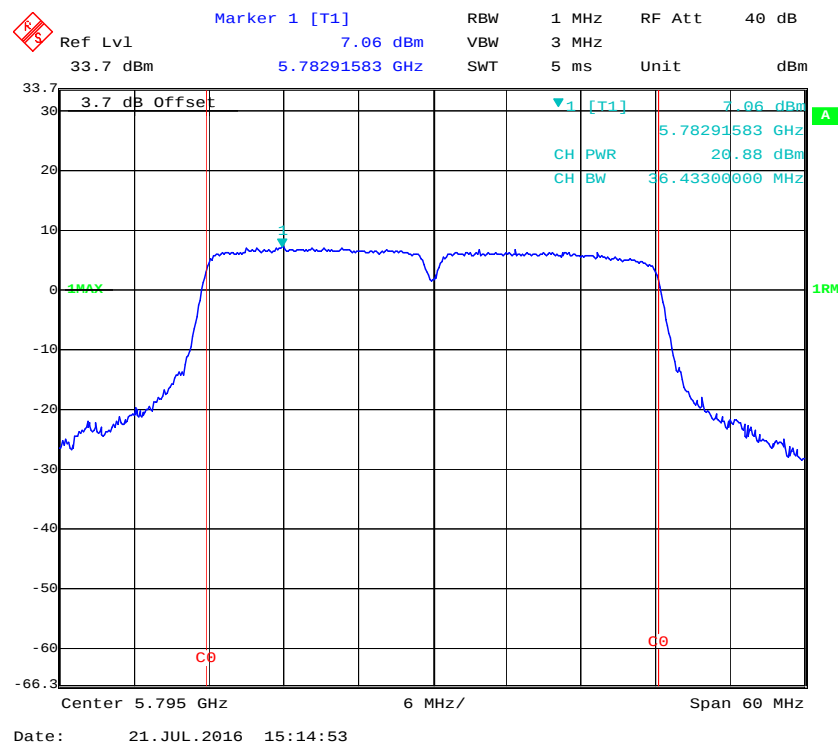
802.11n20 mode, RF Conducted Output Power, Antenn 1, 5785 MHz

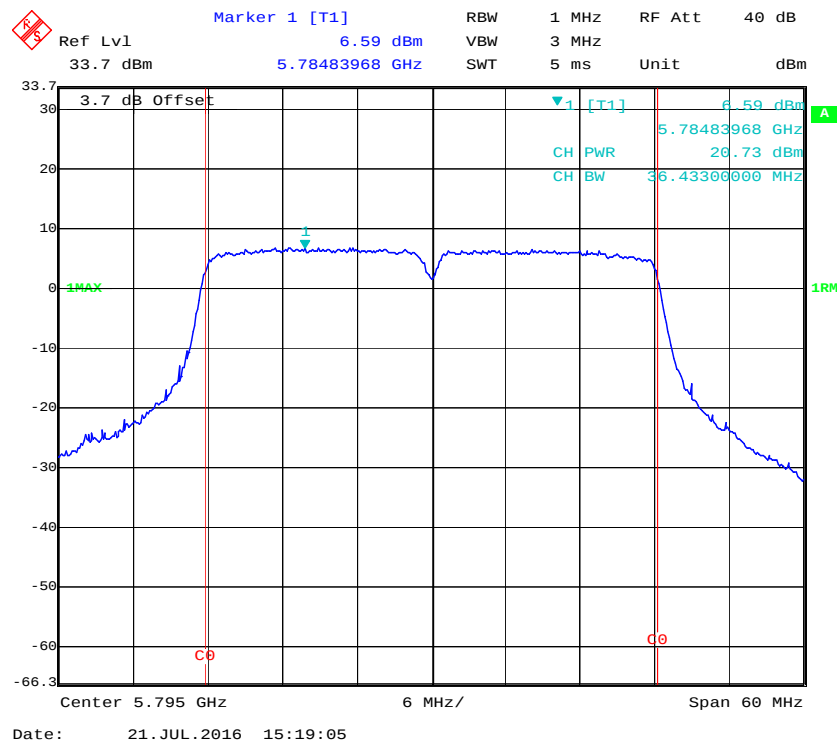
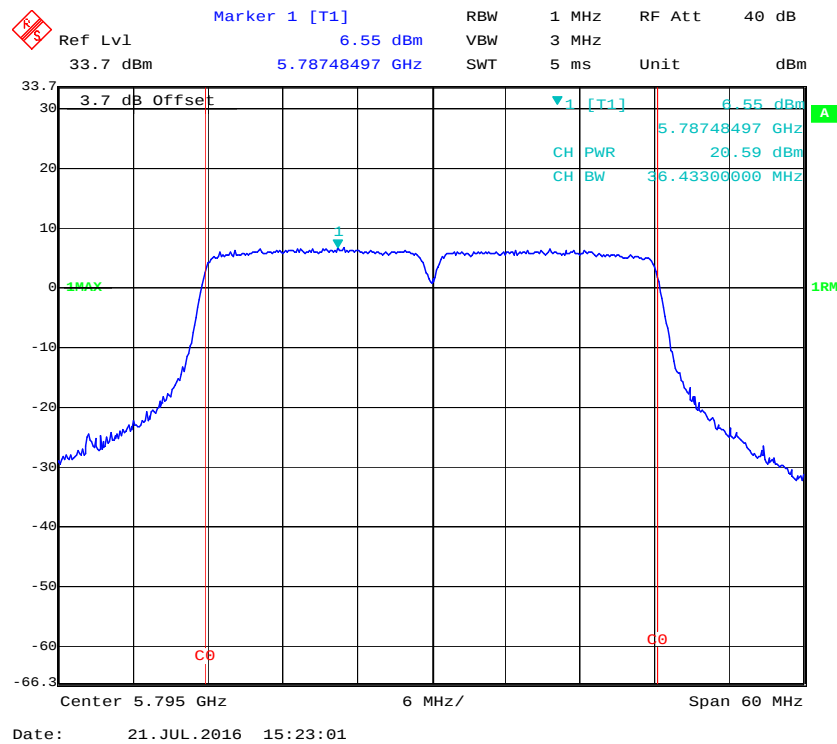


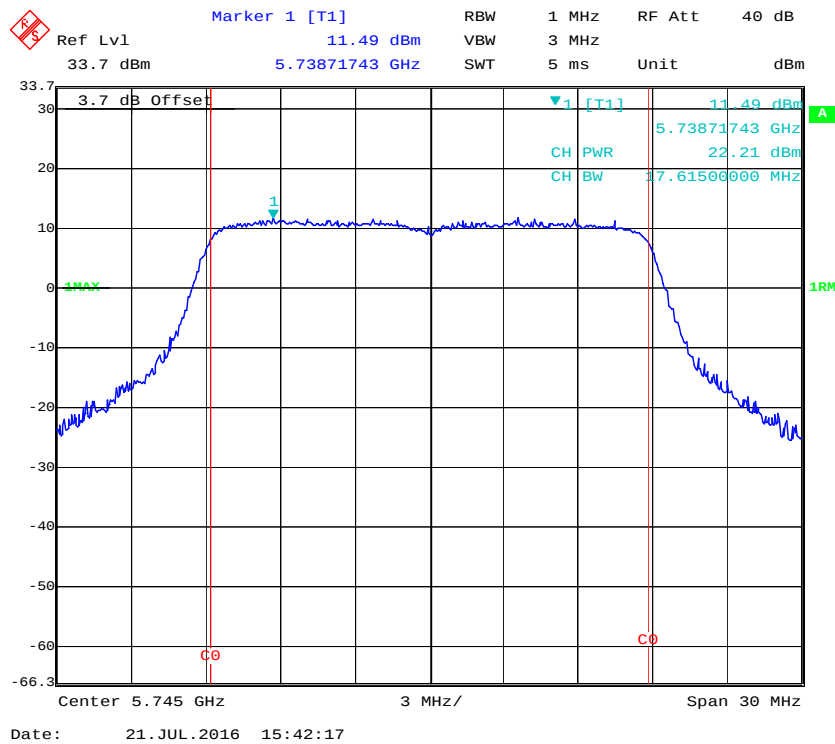
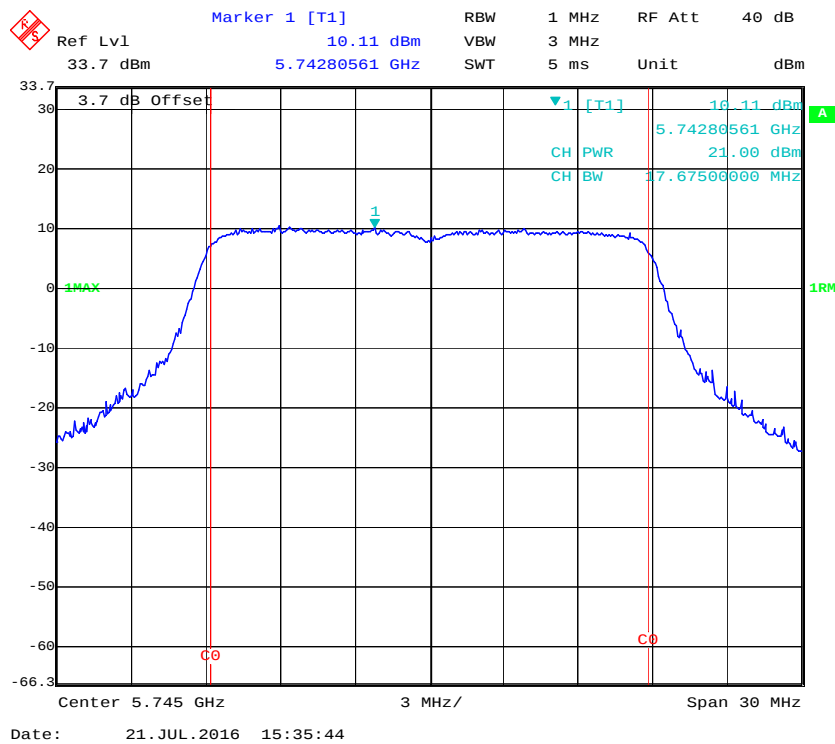
802.11n20 mode, RF Conducted Output Power, Antenn 2, 5785 MHz**802.11n20 mode, RF Conducted Output Power, Antenn 0, 5825 MHz**

802.11n20 mode, RF Conducted Output Power, Antenn 1, 5825 MHz**802.11n20 mode, RF Conducted Output Power, Antenn 2, 5825 MHz**

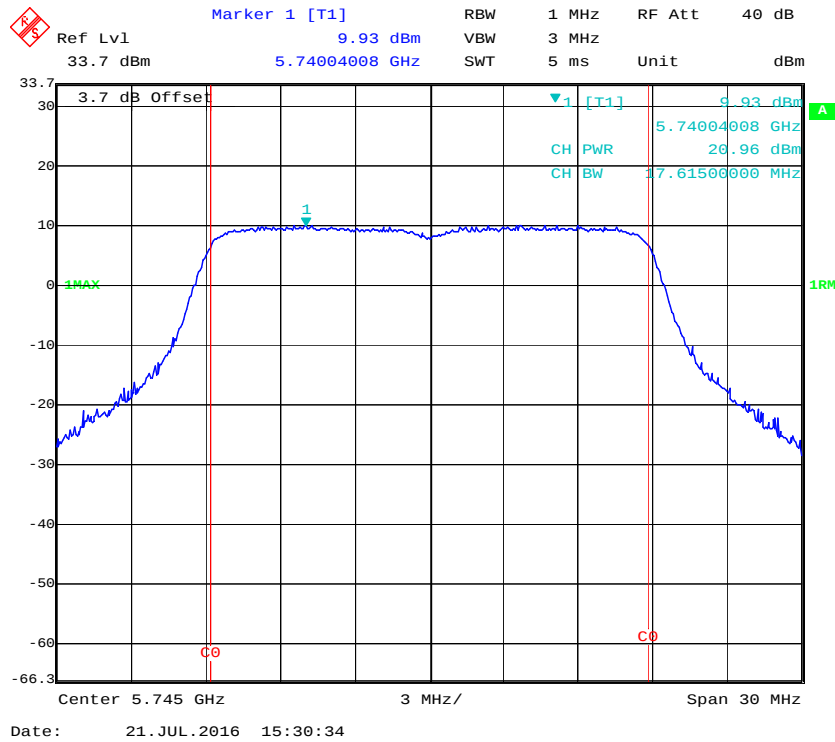
802.11n40 mode, RF Conducted Output Power, Antenn 0, 5755 MHz**802.11n40 mode, RF Conducted Output Power, Antenn 1, 5755 MHz**

802.11n40 mode, RF Conducted Output Power, Antenn 2, 5755 MHz**802.11n40 mode, RF Conducted Output Power, Antenn 0, 5795 MHz**

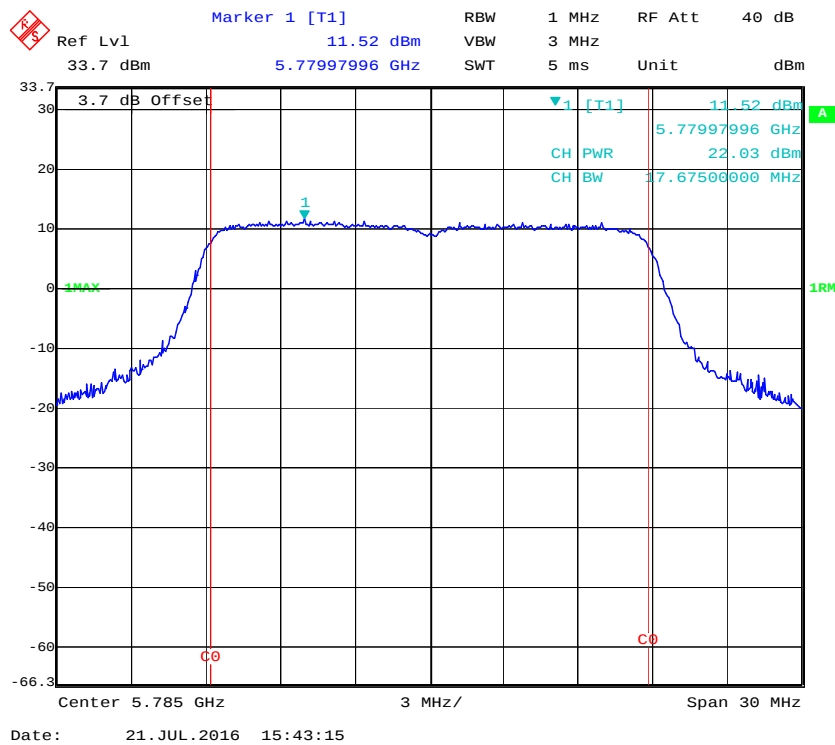
802.11n40 mode, RF Conducted Output Power, Antenn 1, 5795 MHz**802.11n40 mode, RF Conducted Output Power, Antenn 2, 5795 MHz**

802.11ac20 mode, RF Conducted Output Power, Antenn 0, 5745 MHz**802.11ac20 mode, RF Conducted Output Power, Antenn 1, 5745 MHz**

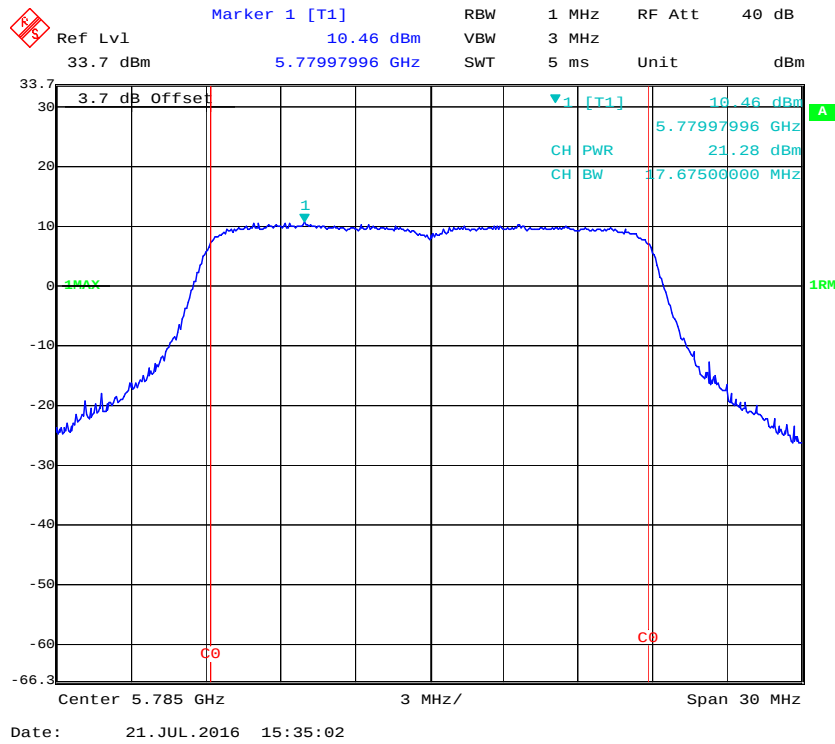
802.11ac20 mode, RF Conducted Output Power, Antenn 2, 5745 MHz



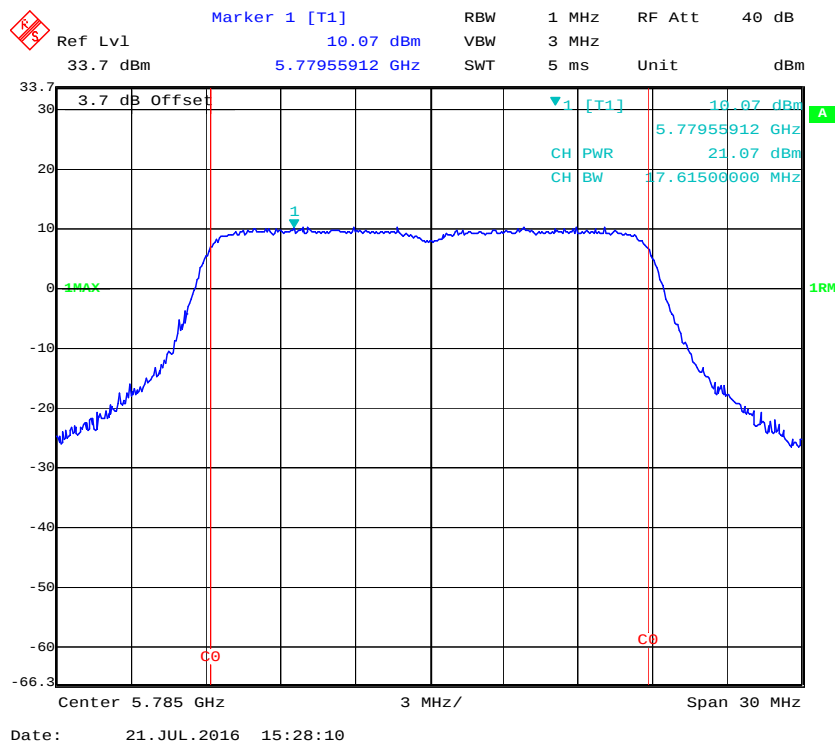
802.11ac20 mode, RF Conducted Output Power, Antenn 0, 5785 MHz

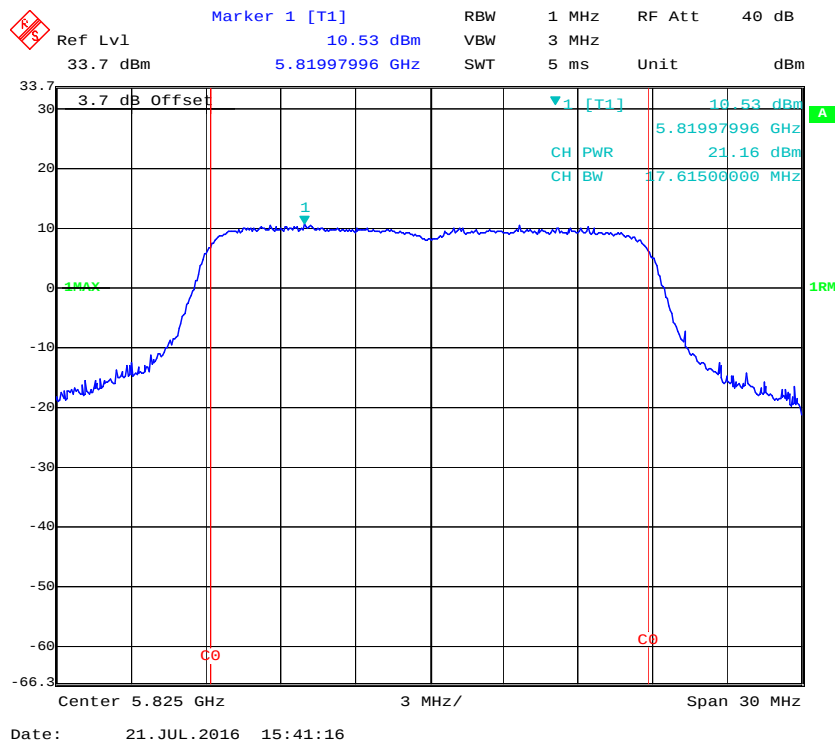
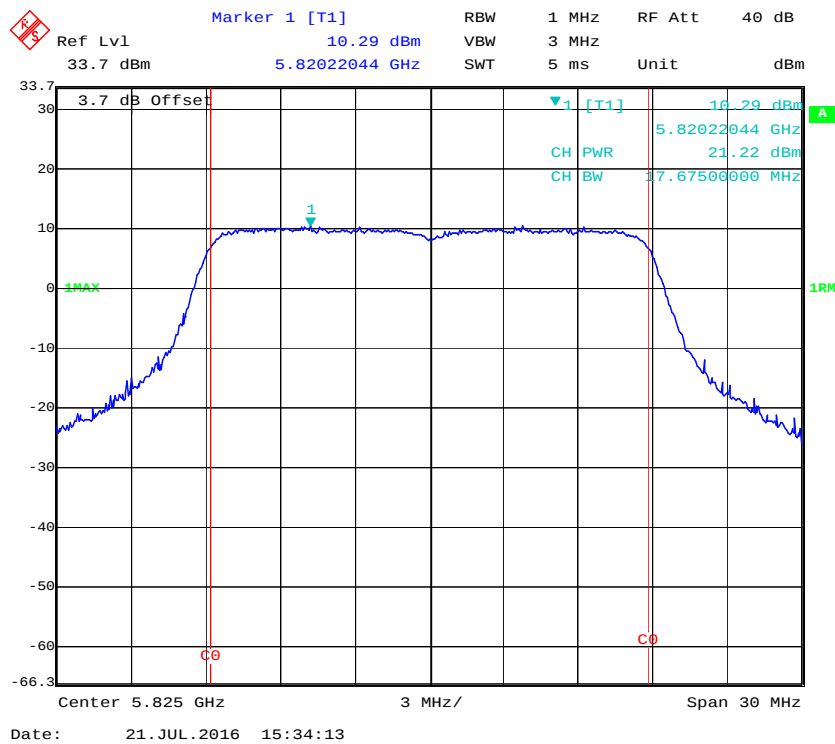


802.11ac20 mode, RF Conducted Output Power, Antenn 1, 5785 MHz

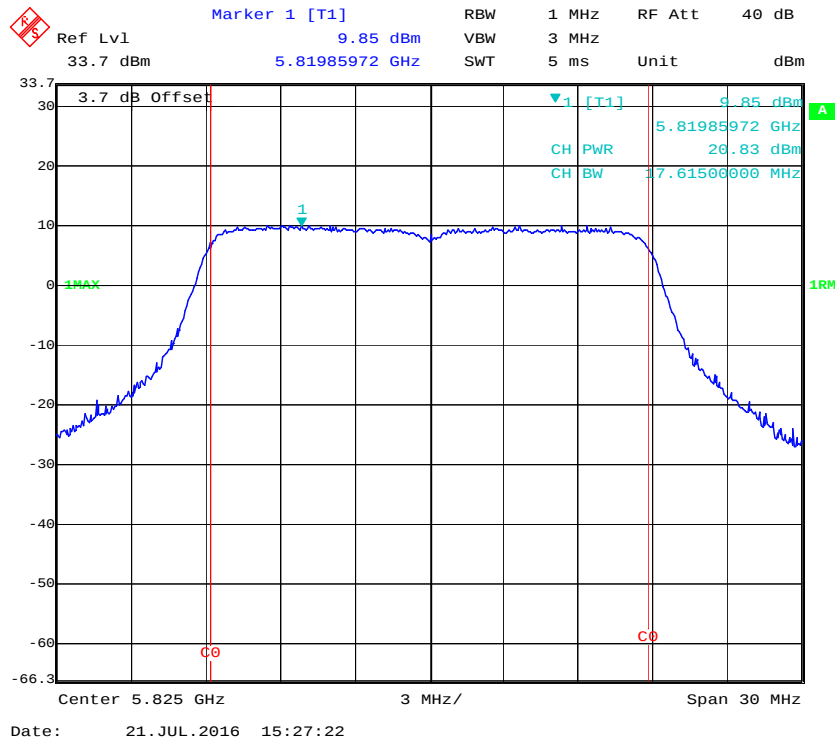


802.11ac20 mode, RF Conducted Output Power, Antenn 2, 5785 MHz

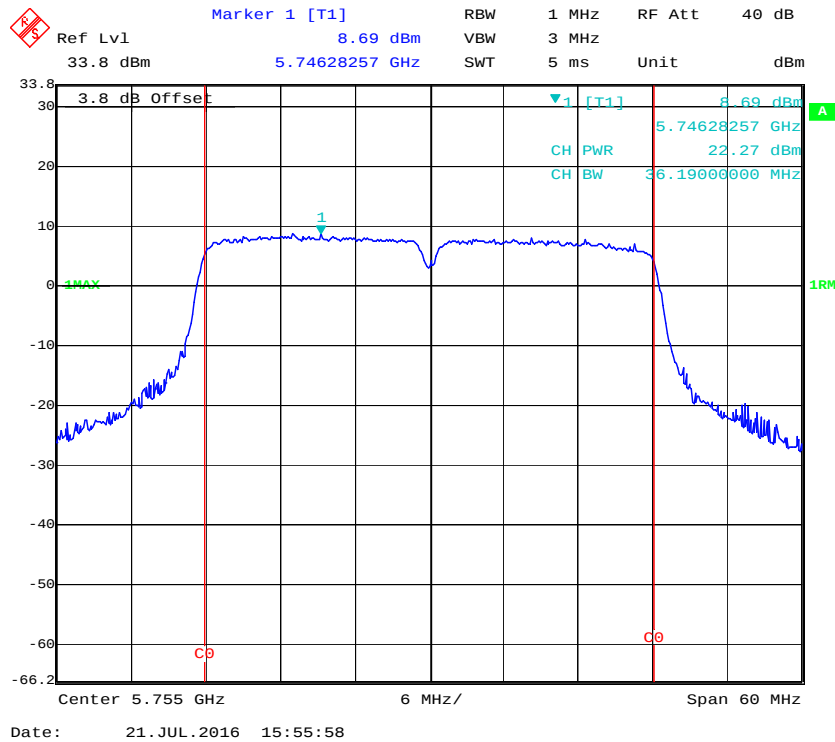


802.11ac20 mode, RF Conducted Output Power, Antenn 0, 5825 MHz**802.11ac20 mode, RF Conducted Output Power, Antenn 1, 5825 MHz**

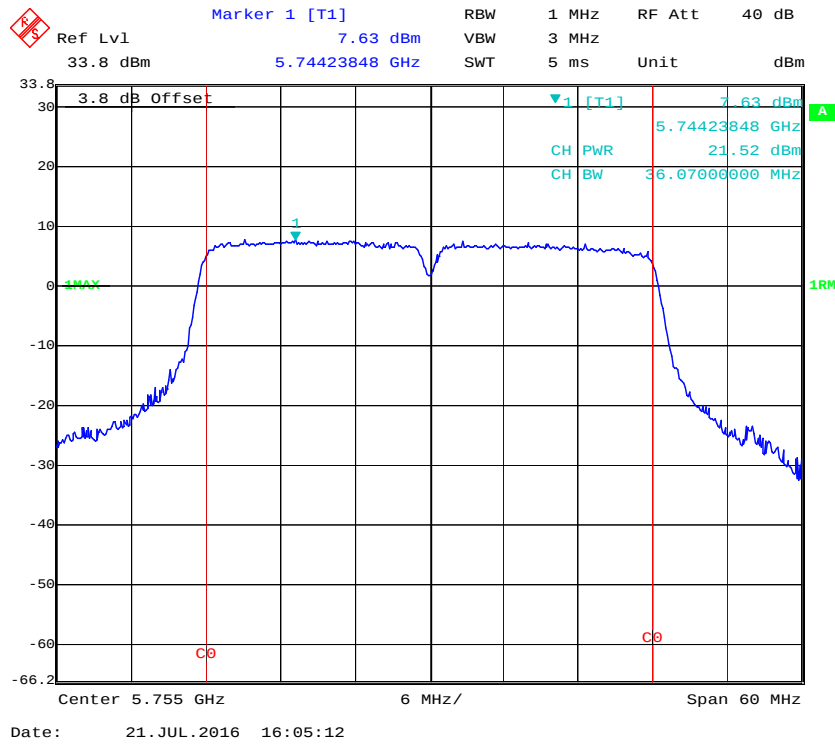
802.11ac20 mode, RF Conducted Output Power, Antenn 2, 5825 MHz



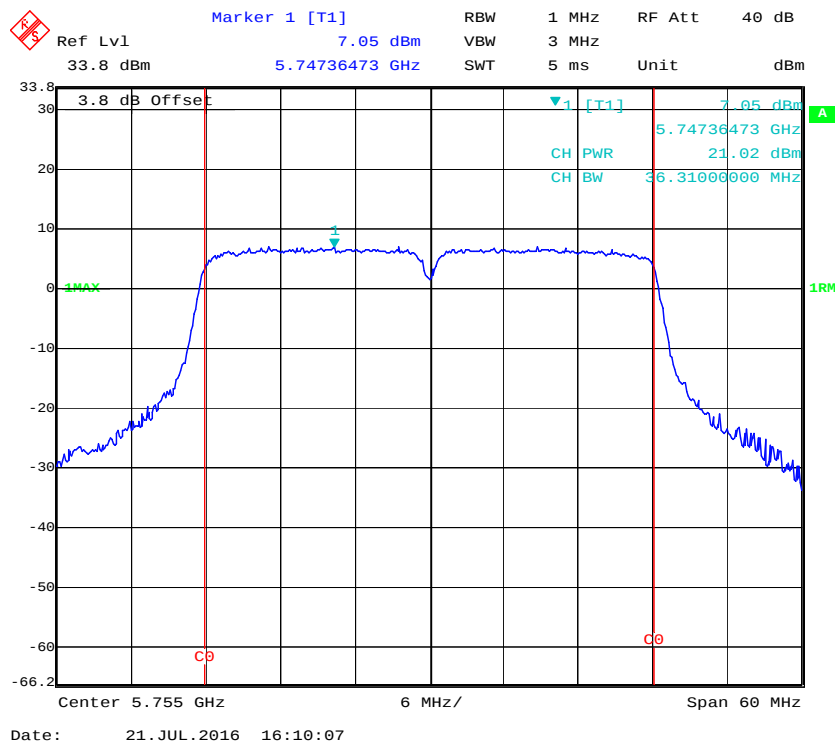
802.11ac40 mode, RF Conducted Output Power, Antenn 0, 5755 MHz

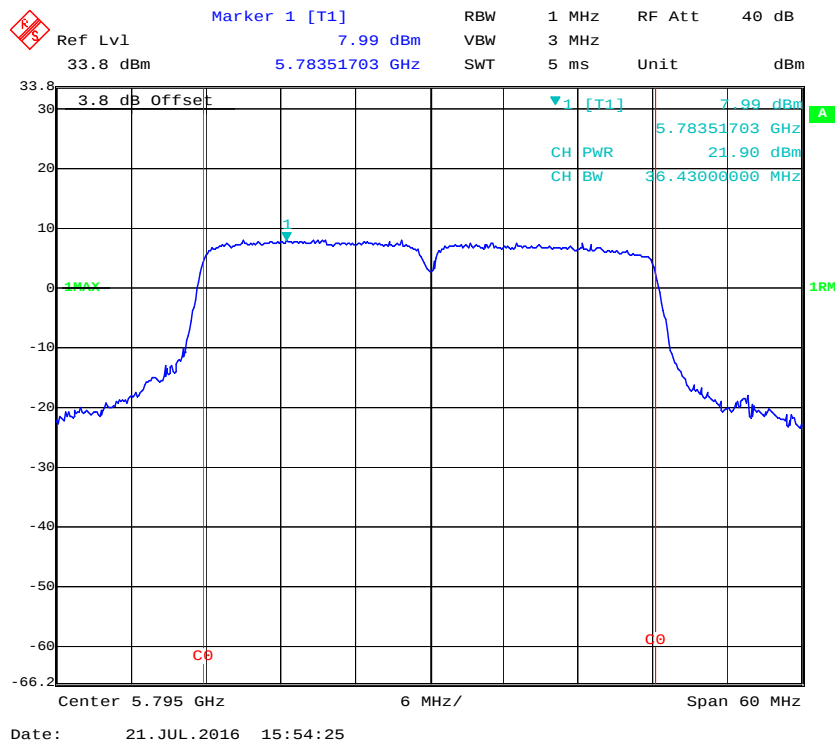
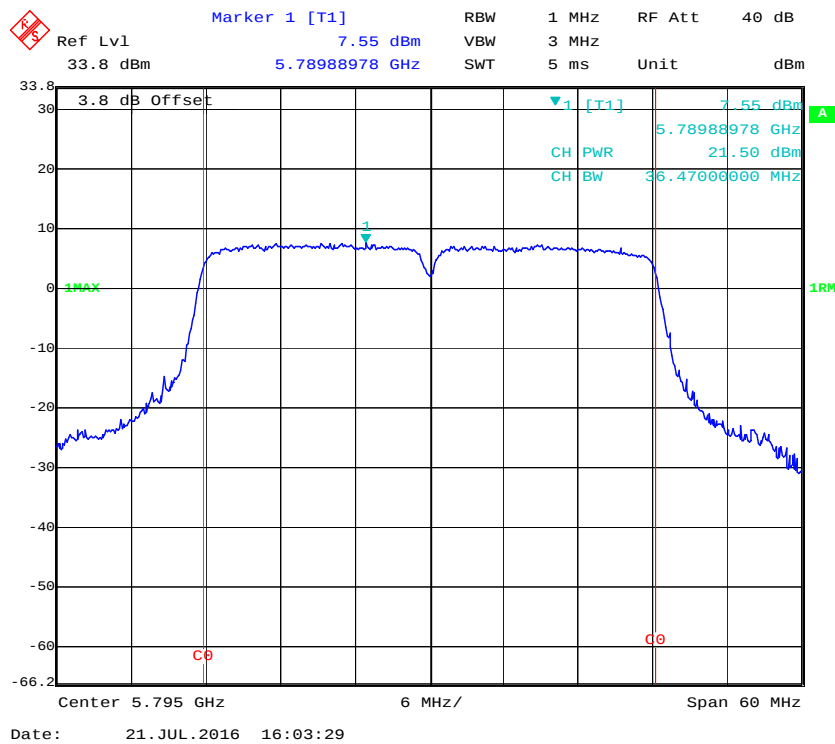


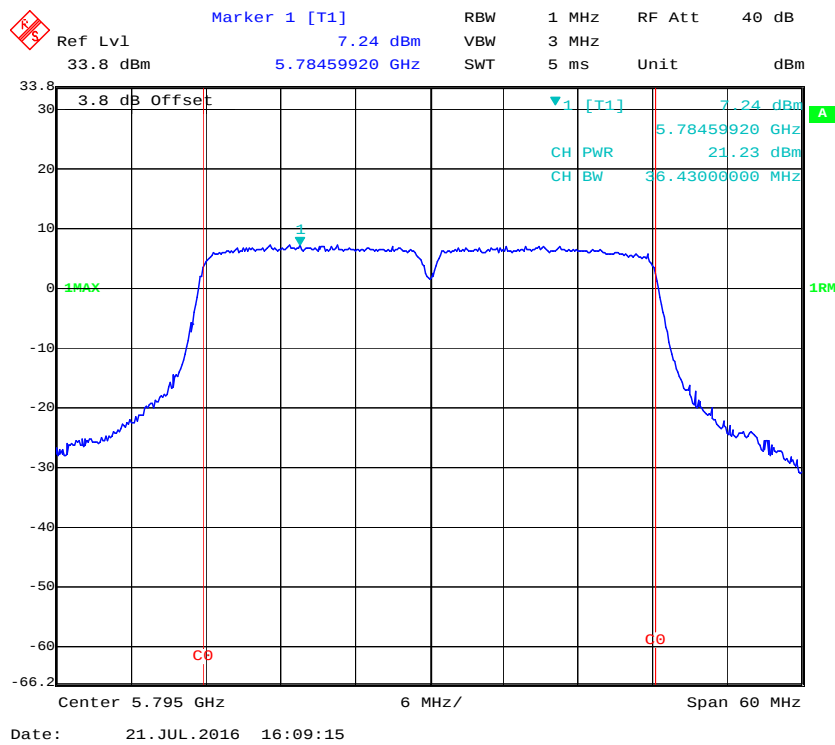
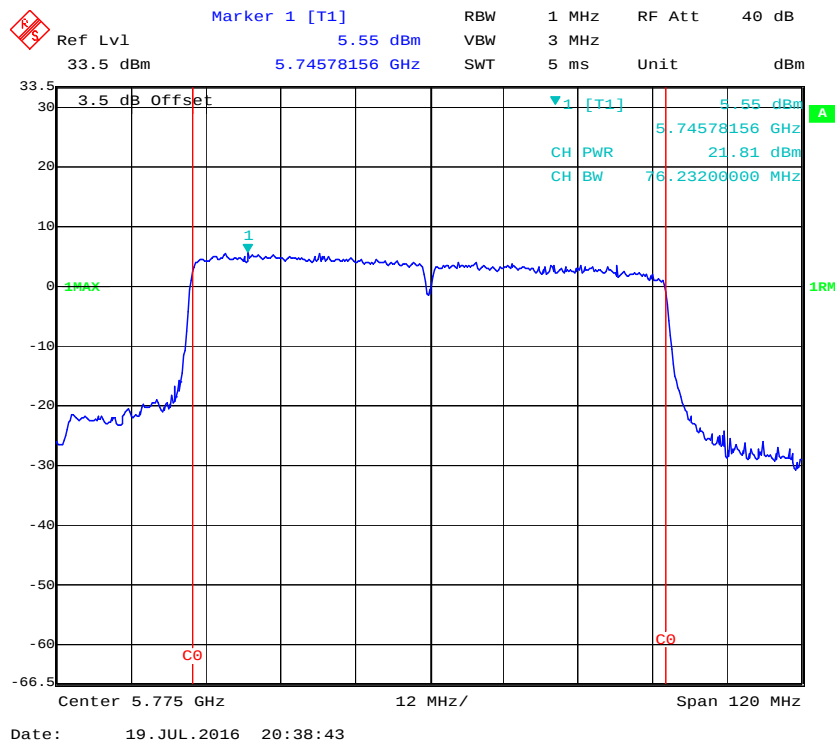
802.11ac40 mode, RF Conducted Output Power, Antenn 1, 5755 MHz

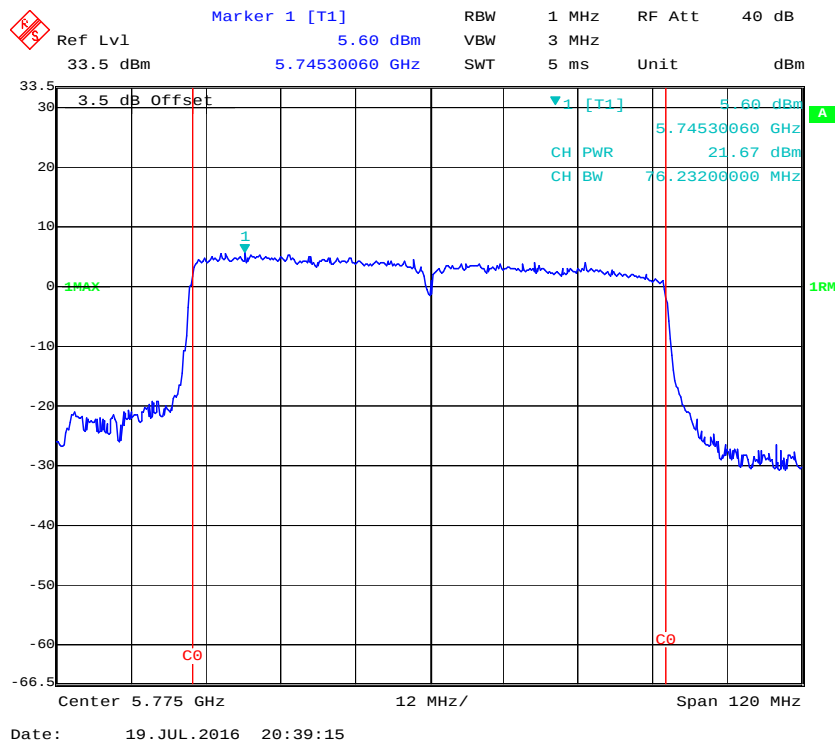
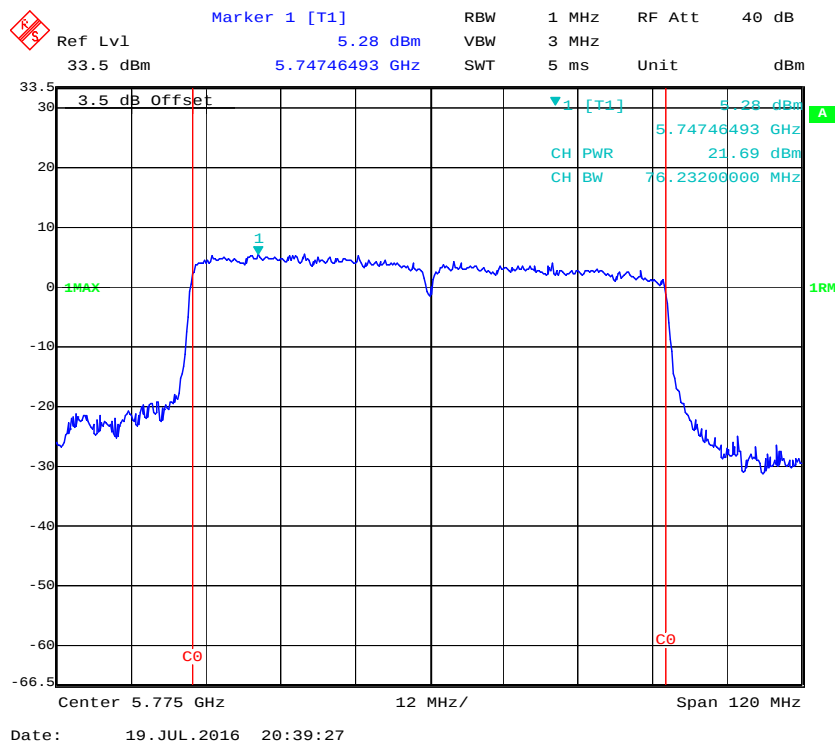


802.11ac40 mode, RF Conducted Output Power, Antenn 2, 5755 MHz



802.11ac40 mode, RF Conducted Output Power, Antenn 0, 5795 MHz**802.11ac40 mode, RF Conducted Output Power, Antenn 1, 5795 MHz**

802.11ac40 mode, RF Conducted Output Power, Antenn 2, 5795 MHz**802.11ac80 mode, RF Conducted Output Power, Antenn 0, 5775 MHz**

802.11ac80 mode, RF Conducted Output Power, Antenn 1, 5775 MHz**802.11ac80 mode, RF Conducted Output Power, Antenn 2, 5775 MHz**

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.

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 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.1.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2016-04-14	2017-04-14
Ducommun technologies	RF Cable	RG-214	3	2016-05-06	2017-05-06
WEINSCHTEL	3dB Attenuator	5324	AU0709	2016-07-18	2017-07-18

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

Test Data**Environmental Conditions**

Temperature:	23 - 26 °C
Relative Humidity:	51 - 58 %
ATM Pressure:	100.0-101.0 kPa

The testing was performed by Simon Wang from 2016-07-19 to 2016-08-12.

EUT operation mode: Transmitting

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:

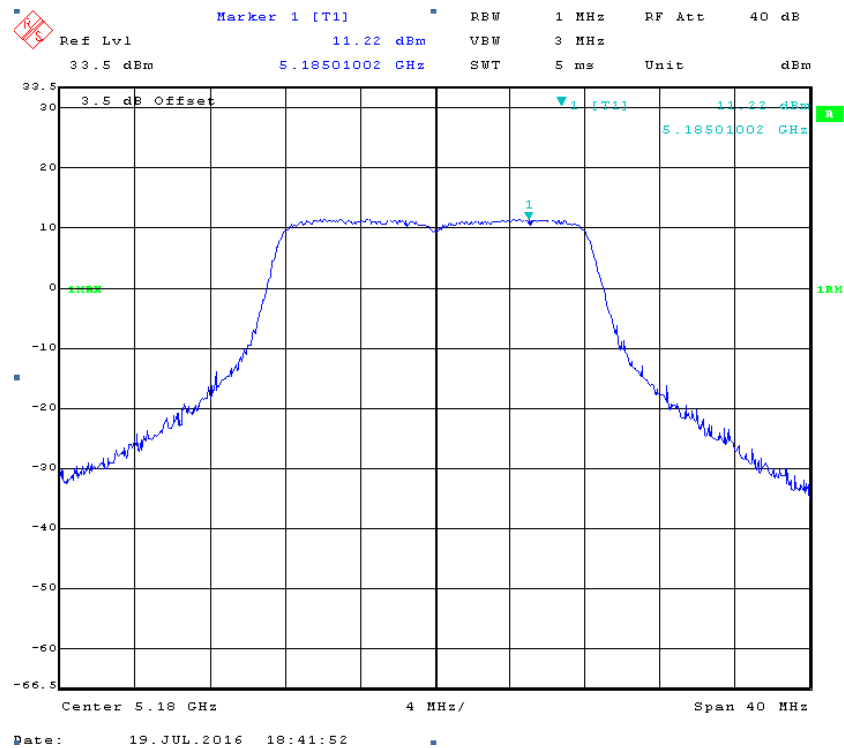
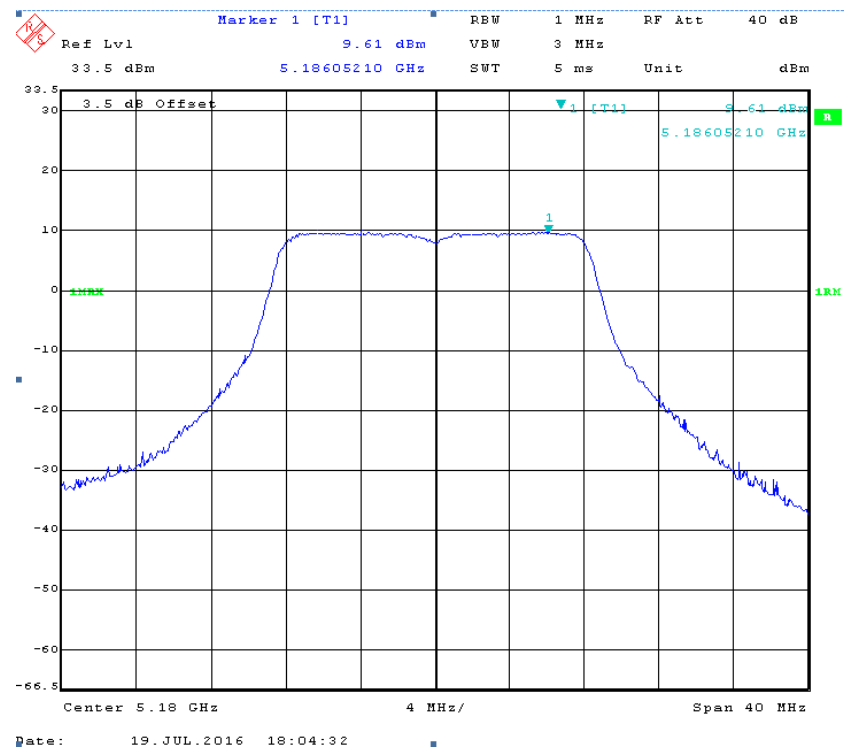
Array gain = $10 \log(N_{\text{ANT}})$, where N_{ANT} is the number of transmit antennas.

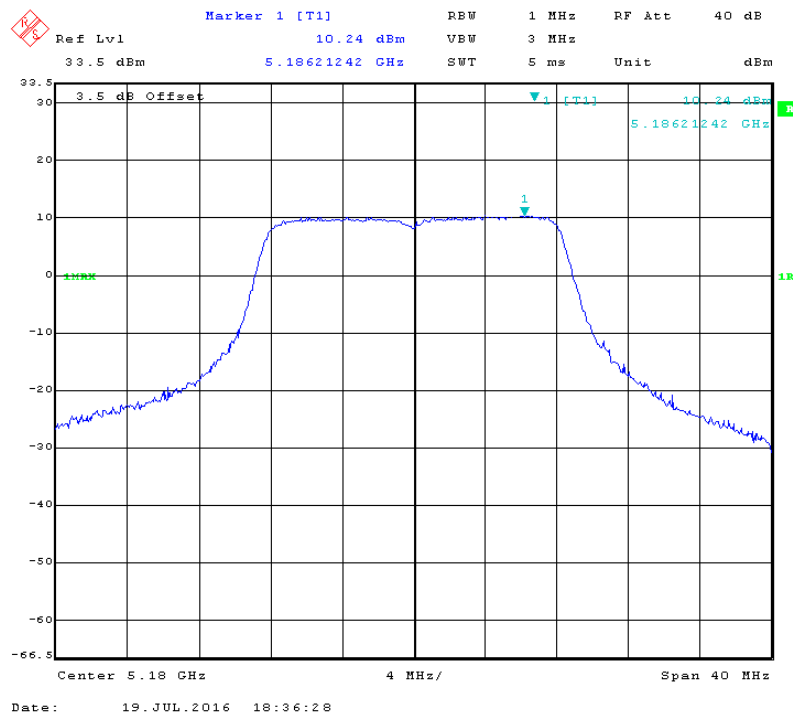
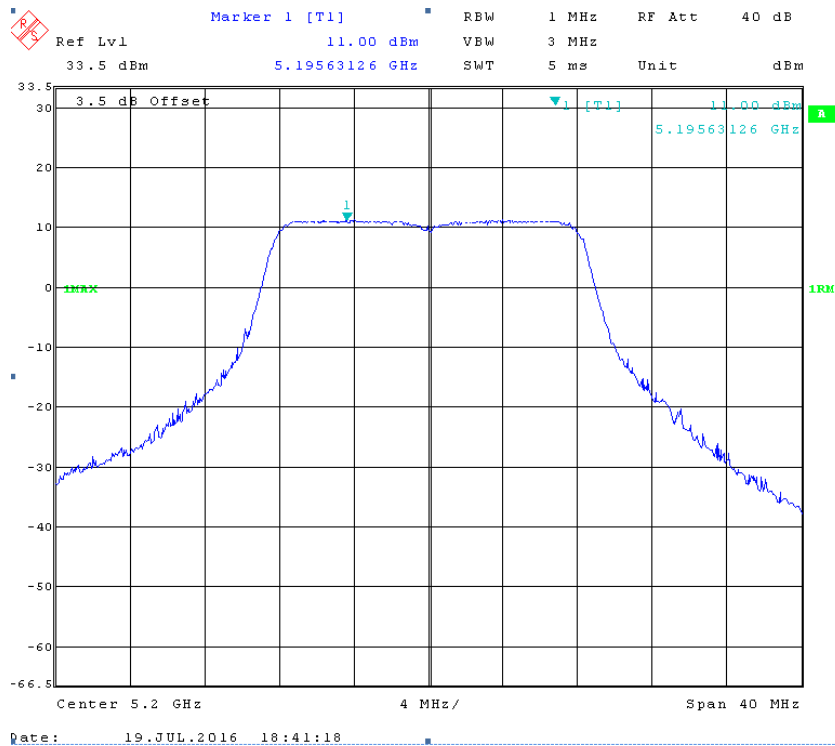
Total directional gain (dBi) = gain of individual transmit antennas (dBi) +4.8 (dB) =7.8dBi, which is 1.8dB higher than 6dBi, so a 1.8dB reduction should be applied for power spectral density limits.

5150 MHz – 5250 MHz:

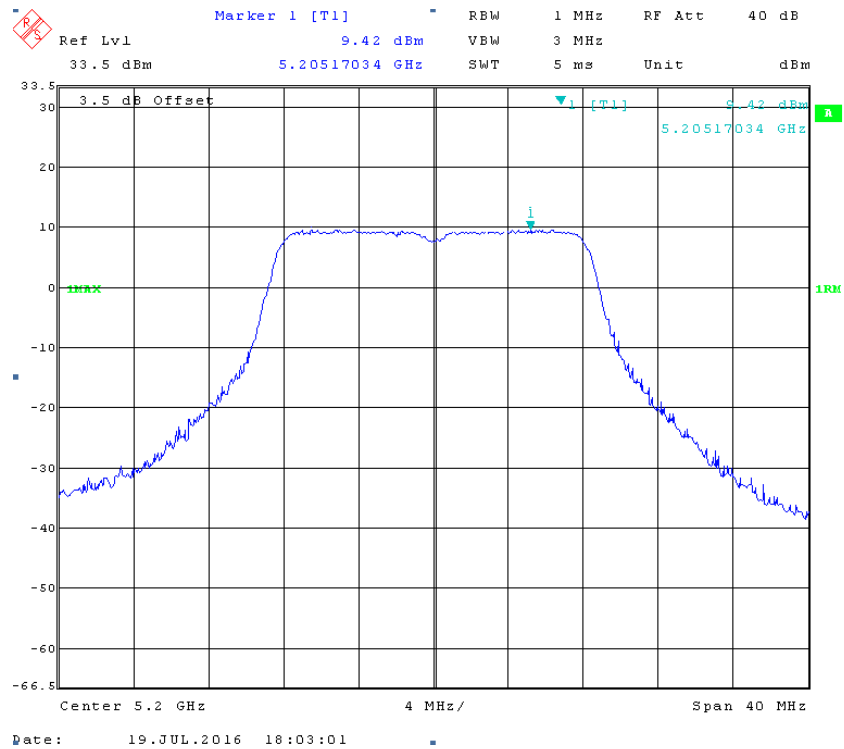
Frequency (MHz)	Antenna Port	Power Spectral Density (dBm/MHz)	Sum Power spectral density (dBm/MHz) Chain0+Chain1+chain 2	Limit (dBm/MHz)
802.11a				
5180	0	11.22	15.179	15.2
	1	9.61		
	2	10.24		
5200	0	11.00	15.127	
	1	9.42		
	2	10.50		
5240	0	10.10	15.049	
	1	10.07		
	2	10.64		
802.11n20				
5180	0	10.94	14.943	15.2
	1	9.68		
	2	9.78		
5200	0	10.82	15.130	
	1	9.76		
	2	10.43		
5240	0	9.64	15.014	
	1	10.50		
	2	10.53		
802.11n40				
5190	0	7.83	12.093	15.2
	1	6.77		
	2	7.30		
5230	0	6.77	12.519	
	1	7.49		
	2	8.75		

Frequency (MHz)	Antenna Port	Power Spectral Density (dBm/MHz)	Sum Power spectral density (dBm/MHz) Chain0+Chain1+chain 2	Limit (dBm/MHz)
802.11ac20				
5180	0	10.63	14.662	15.2
	1	9.13		
	2	9.78		
5200	0	10.38	14.821	
	1	9.29		
	2	10.39		
5240	0	9.14	14.622	
	1	10.02		
	2	10.31		
802.11ac40				
5190	0	9.55	12.819	15.2
	1	6.31		
	2	7.67		
5230	0	8.82	12.983	
	1	6.91		
	2	8.66		
802.11ac80				
5210	0	6.16	10.826	15.2
	1	5.93		
	2	6.07		

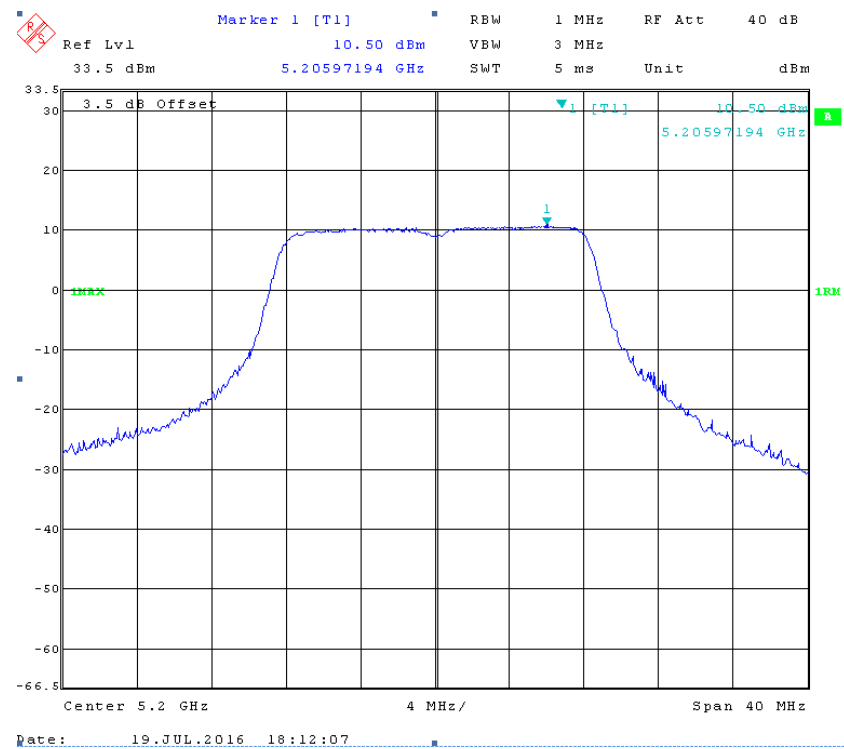
802.11a mode, Power Spectral Density, Antenn 0, 5180 MHz**802.11a mode, Power Spectral Density, Antenn 1, 5180 MHz**

802.11a mode, Power Spectral Density, Antenn 2, 5180 MHz**802.11a mode, Power Spectral Density, Antenn 0, 5200 MHz**

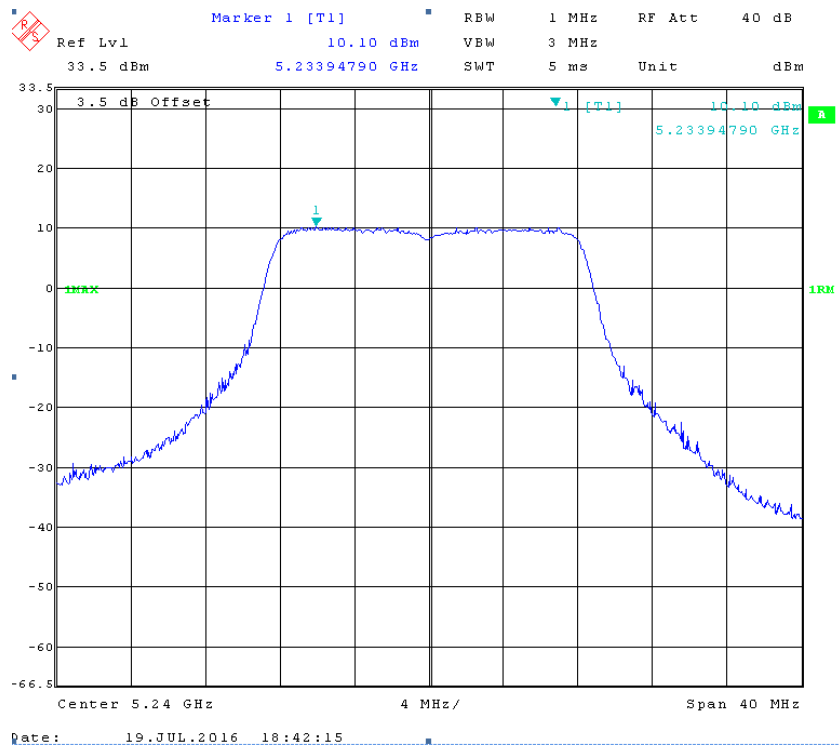
802.11a mode, Power Spectral Density, Antenn 1, 5200 MHz



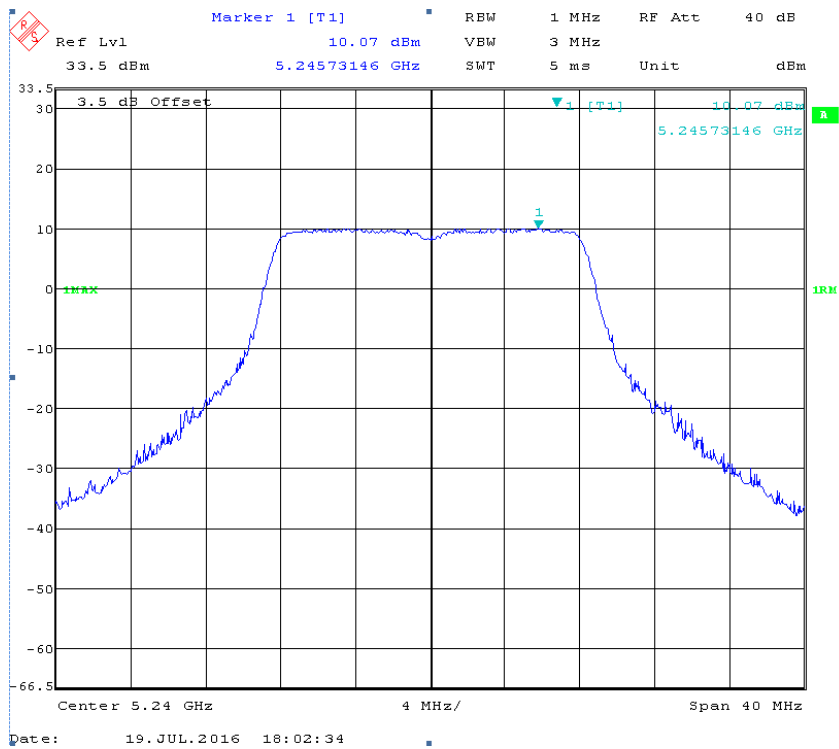
802.11a mode, Power Spectral Density, Antenn 2, 5200 MHz

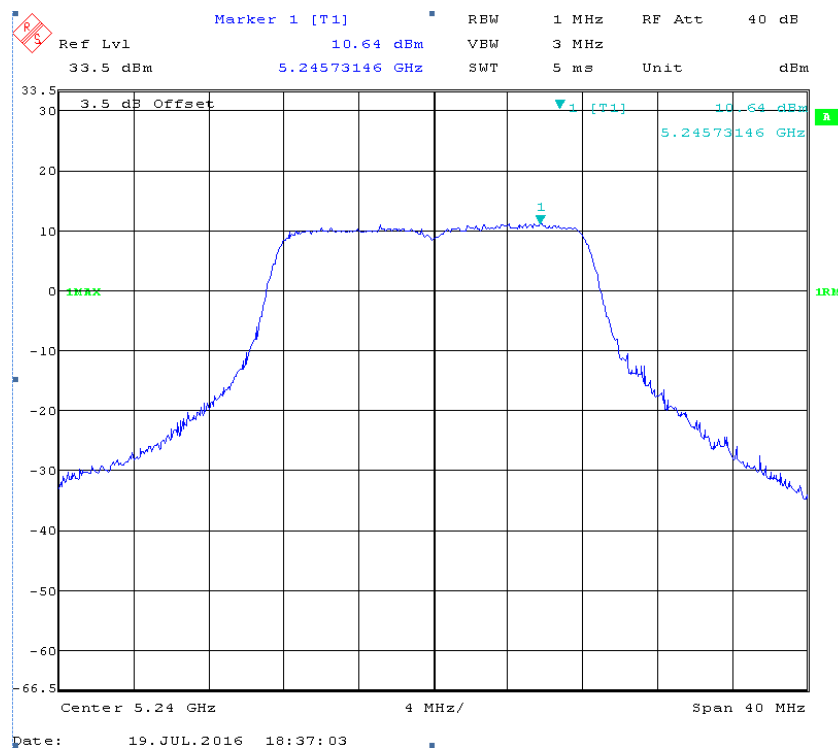
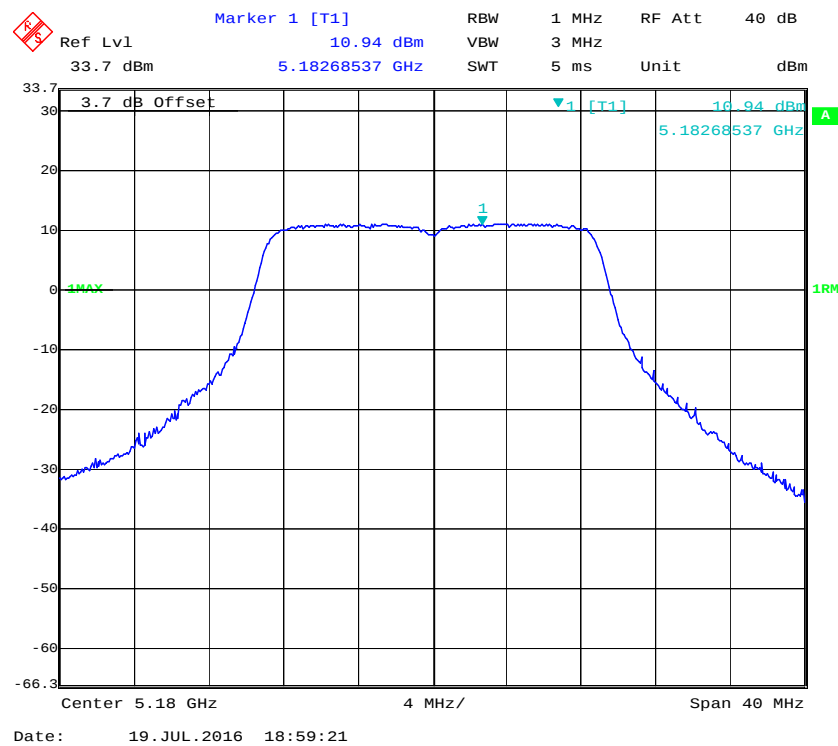


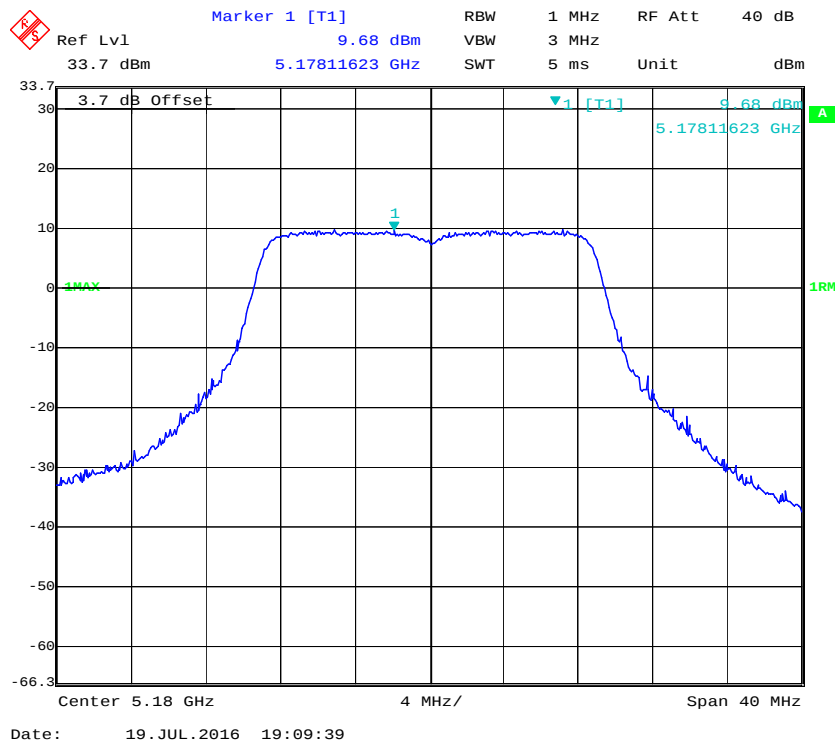
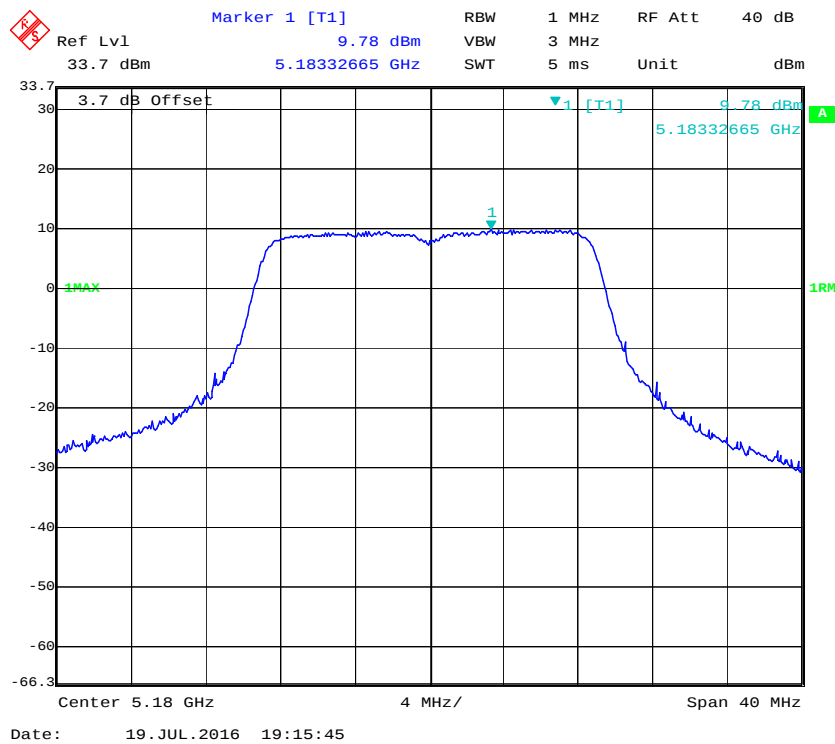
802.11a mode, Power Spectral Density, Antenn 0, 5240 MHz



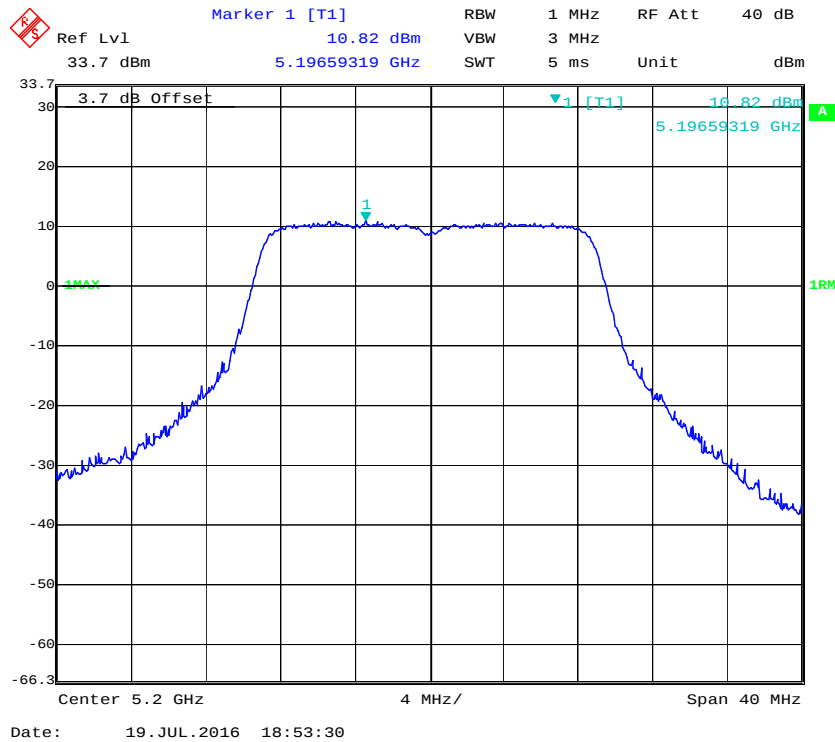
802.11a mode, Power Spectral Density, Antenn 1, 5240 MHz



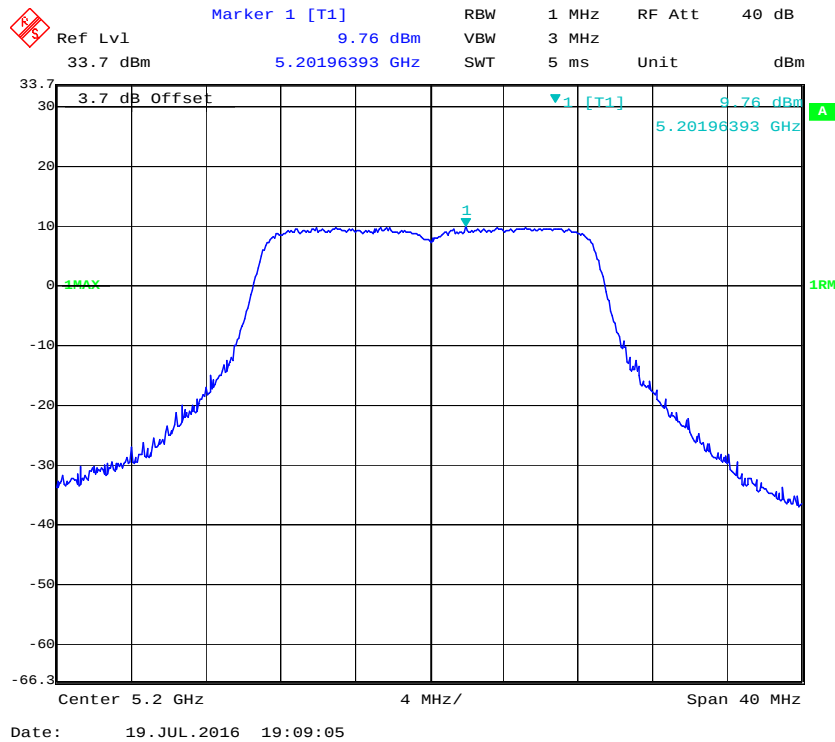
802.11a mode, Power Spectral Density, Antenn 2, 5240 MHz**802.11n20 mode, Power Spectral Density, Antenn 0, 5180 MHz**

802.11n20 mode, Power Spectral Density, Antenn 1, 5180 MHz**802.11n20 mode, Power Spectral Density, Antenn 2, 5180 MHz**

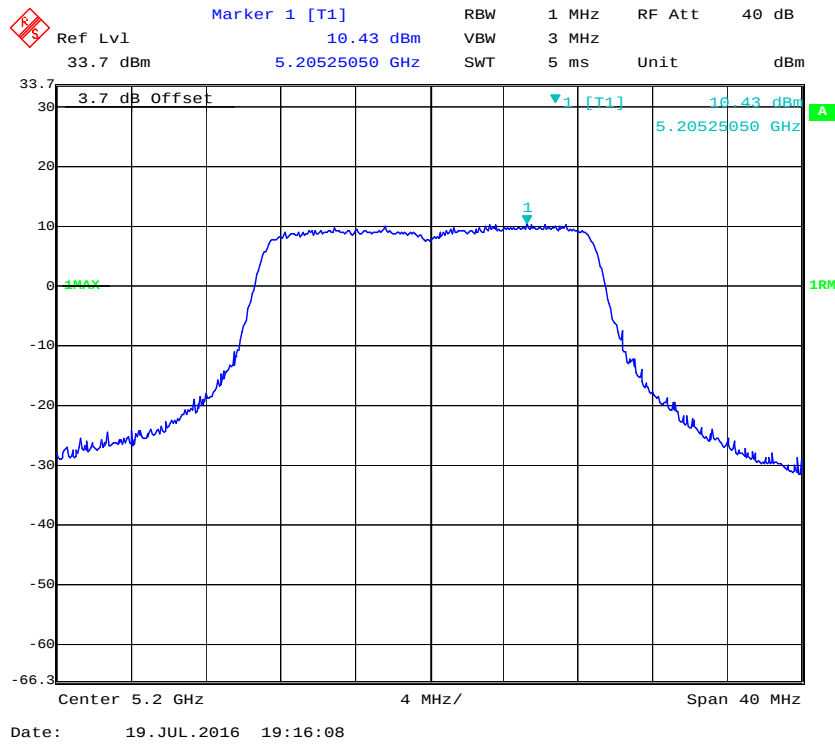
802.11n20 mode, Power Spectral Density, Antenn 0, 5200 MHz



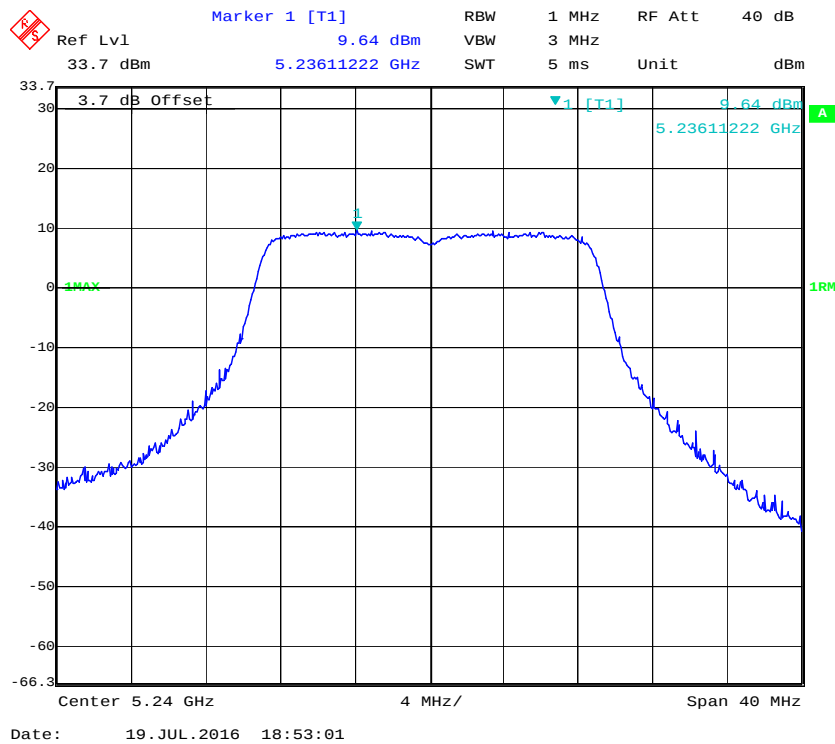
802.11n20 mode, Power Spectral Density, Antenn 1, 5200 MHz



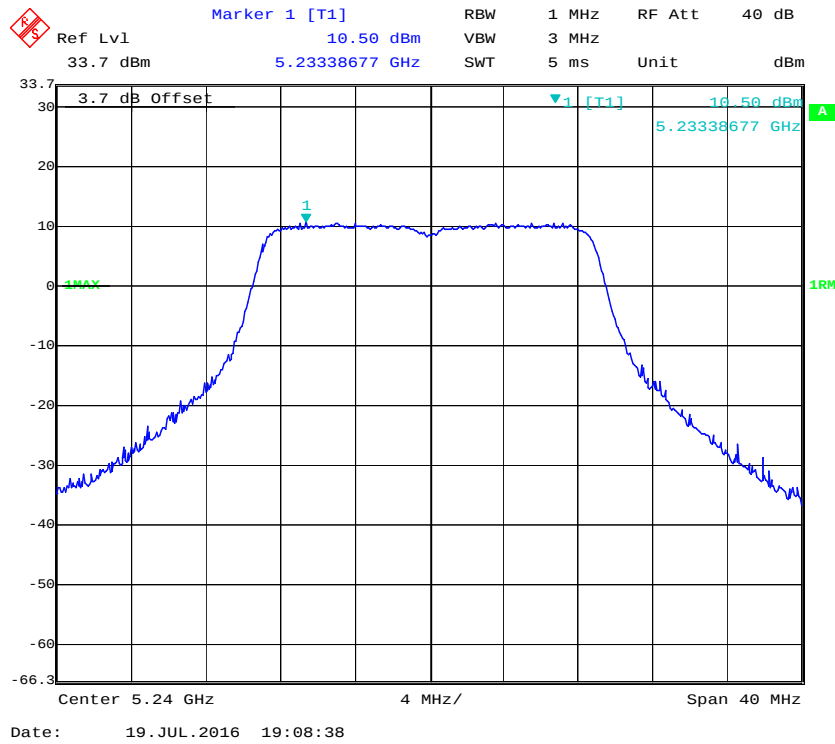
802.11n20 mode, Power Spectral Density, Antenn 2, 5200 MHz



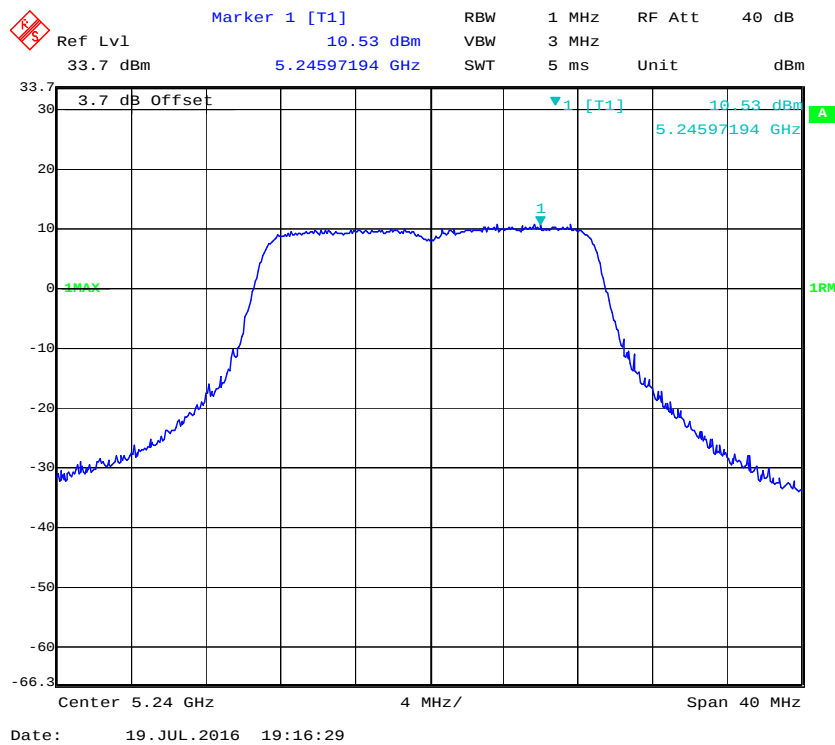
802.11n20 mode, Power Spectral Density, Antenn 0, 5240 MHz



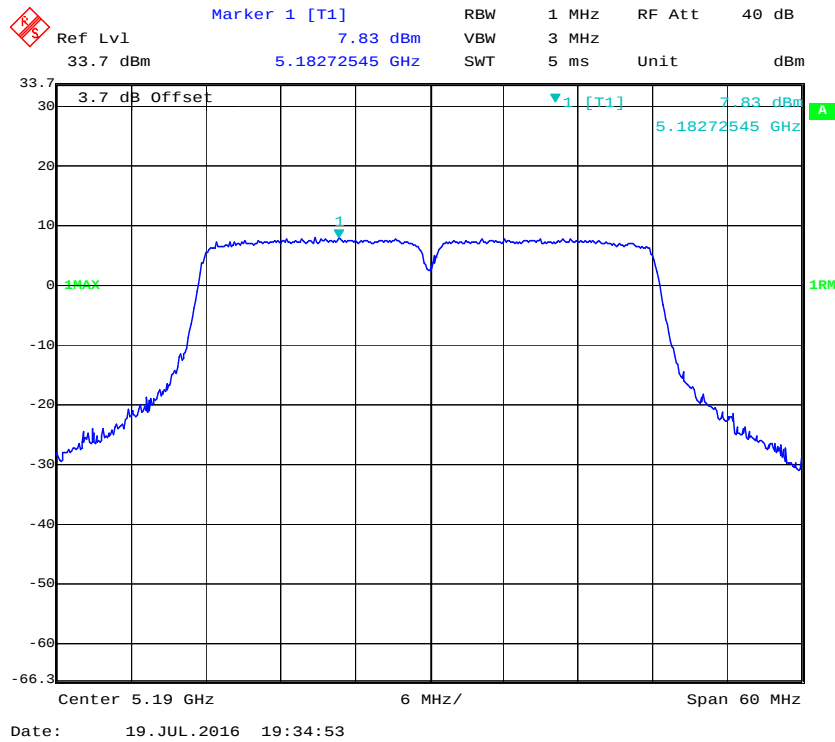
802.11n20 mode, Power Spectral Density, Antenn 1, 5240 MHz



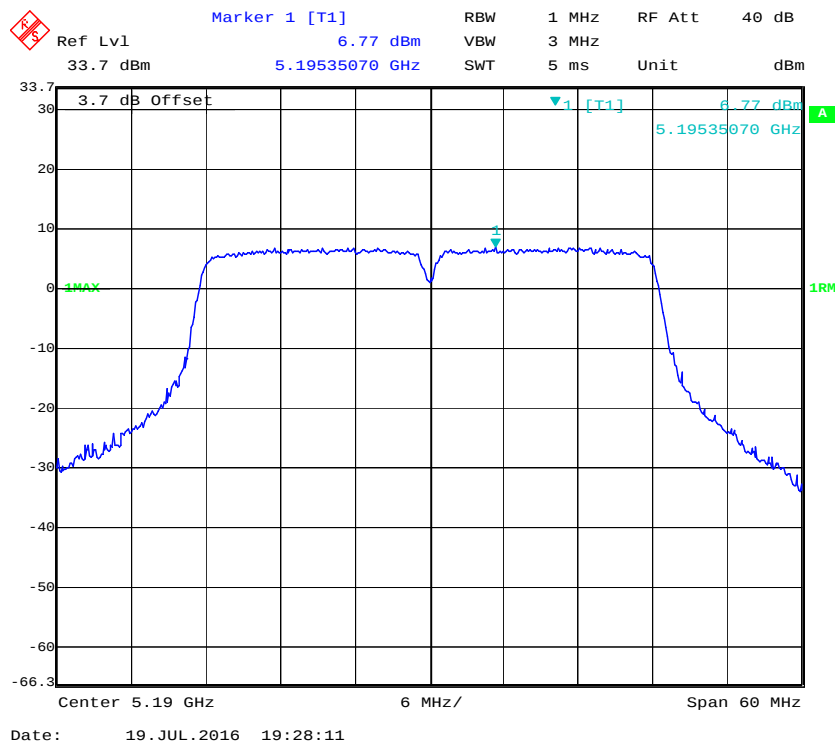
802.11n20 mode, RF Power Spectral Density, Antenn 2, 5240 MHz



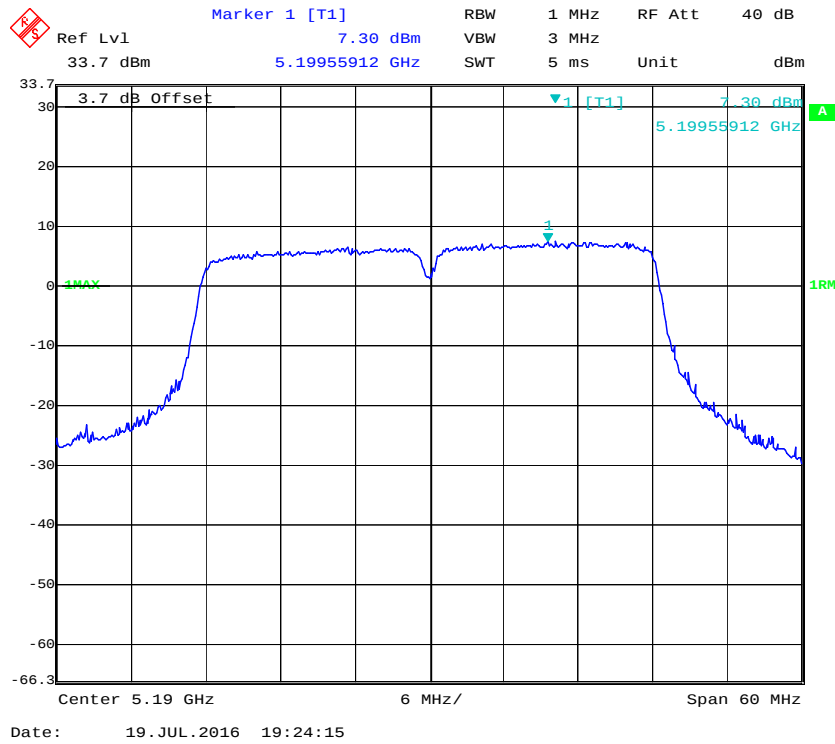
802.11n40 mode, Power Spectral Density, Antenn 0, 5190 MHz



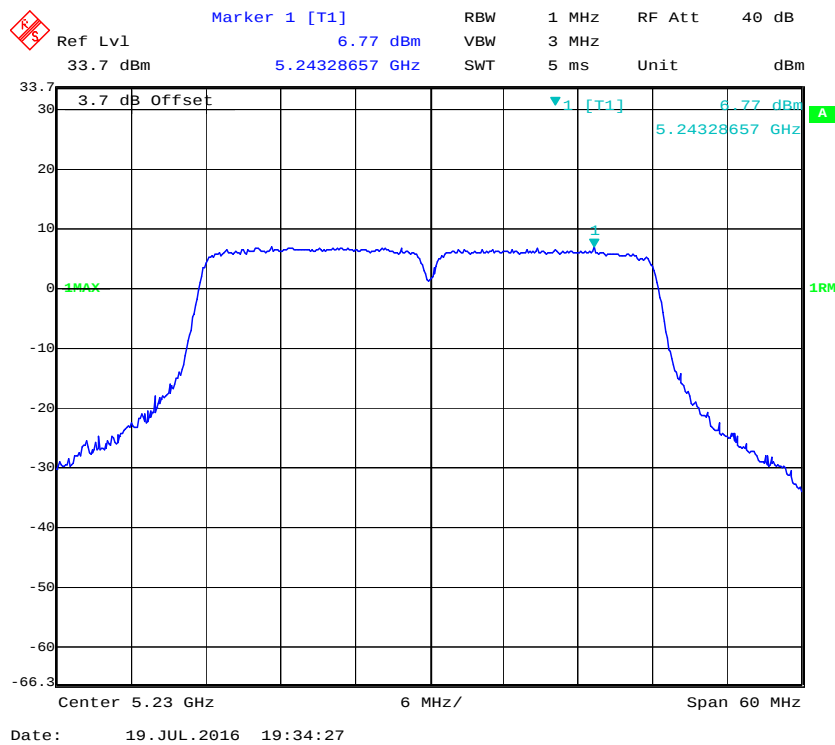
802.11n40 mode, Power Spectral Density, Antenn 1, 5190 MHz



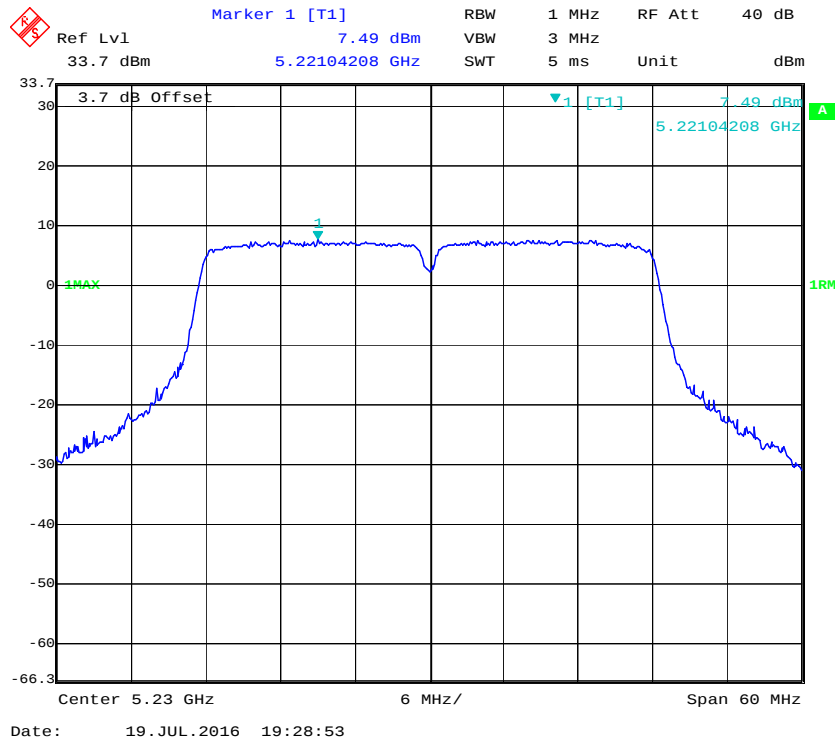
802.11n40 mode, Power Spectral Density, Antenn 2, 5190 MHz



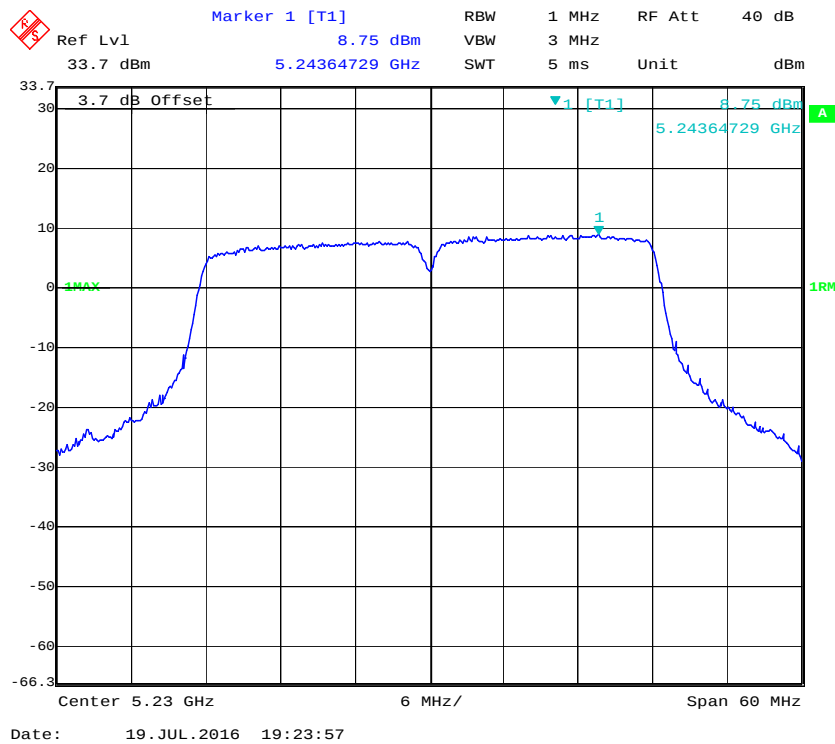
802.11n40 mode, Power Spectral Density, Antenn 0, 5230 MHz



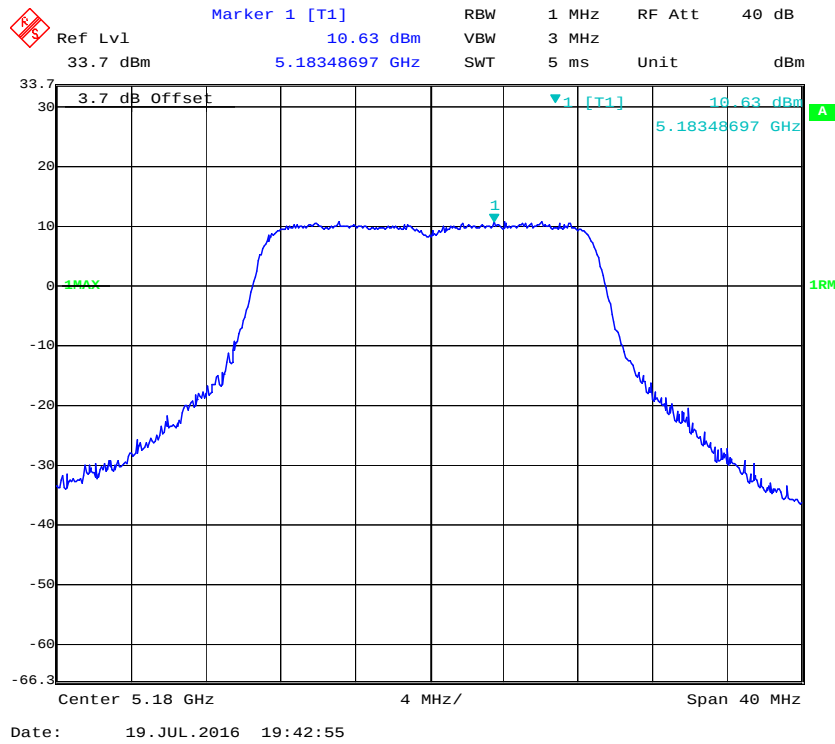
802.11n40 mode, Power Spectral Density, Antenn 1, 5230 MHz



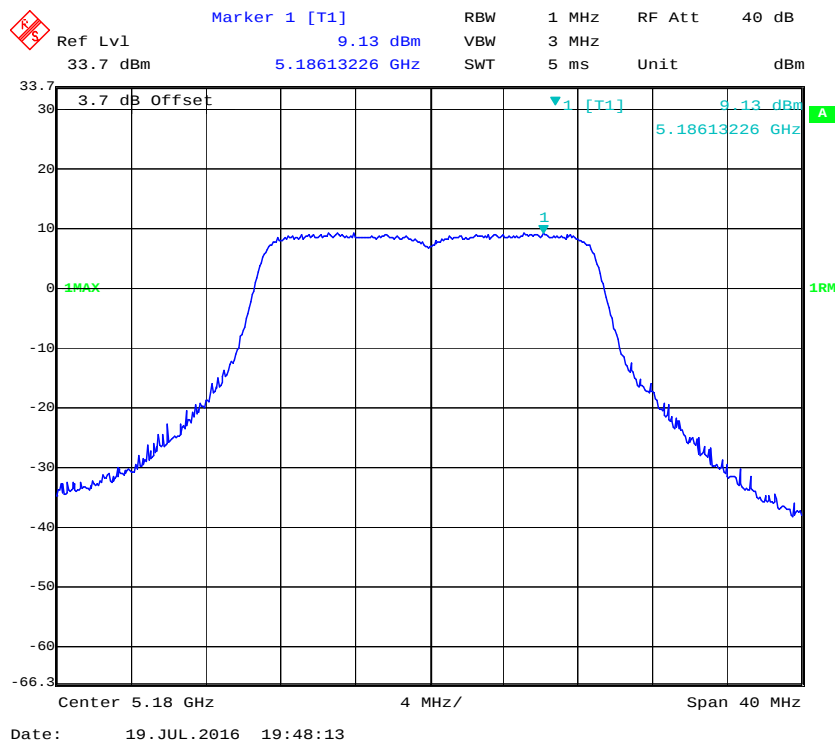
802.11n40 mode, Power Spectral Density, Antenn 2, 5230 MHz

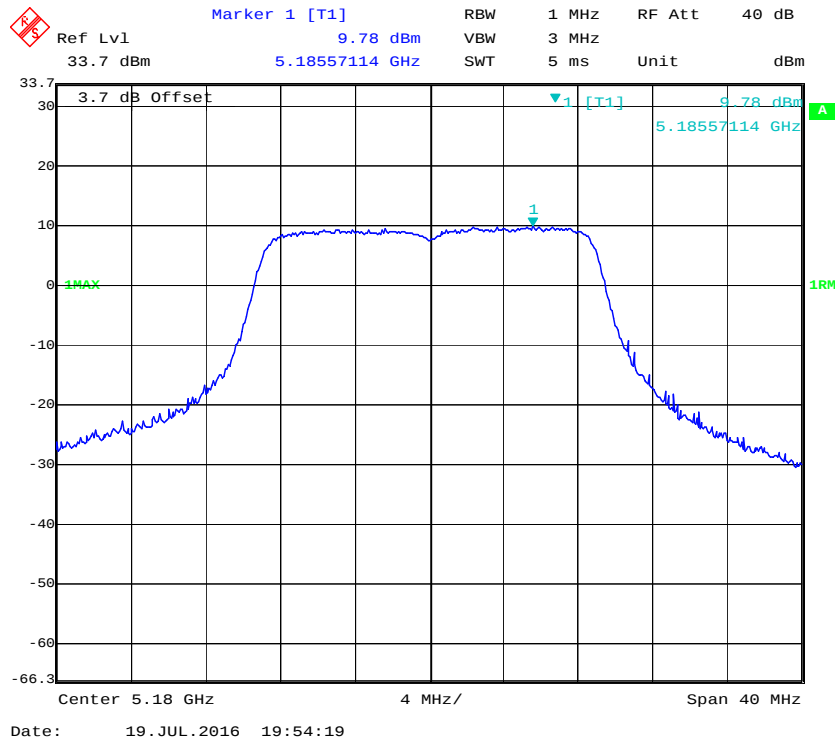
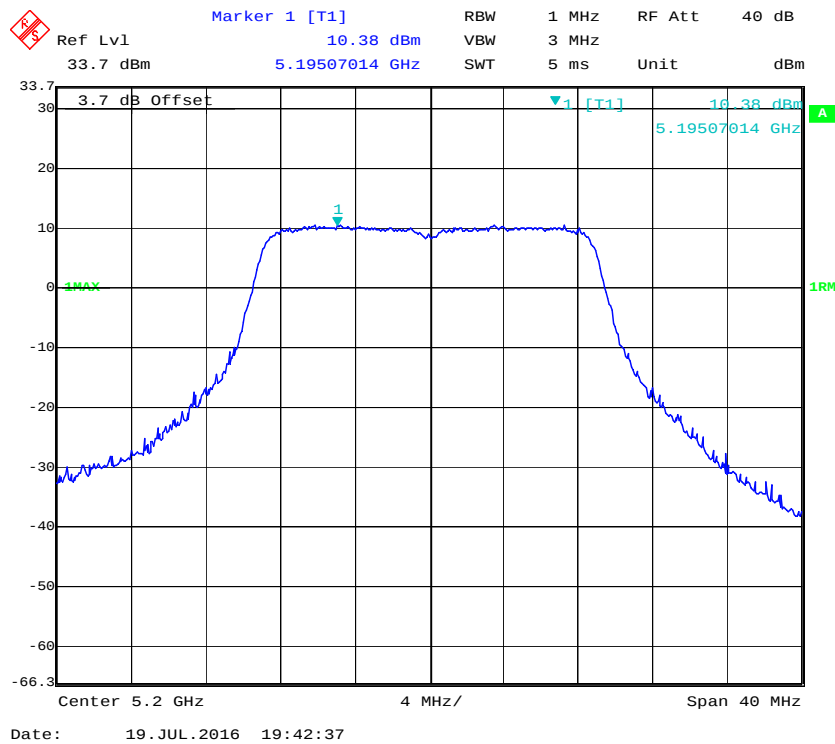


802.11ac20 mode, Power Spectral Density, Antenn 0, 5180 MHz

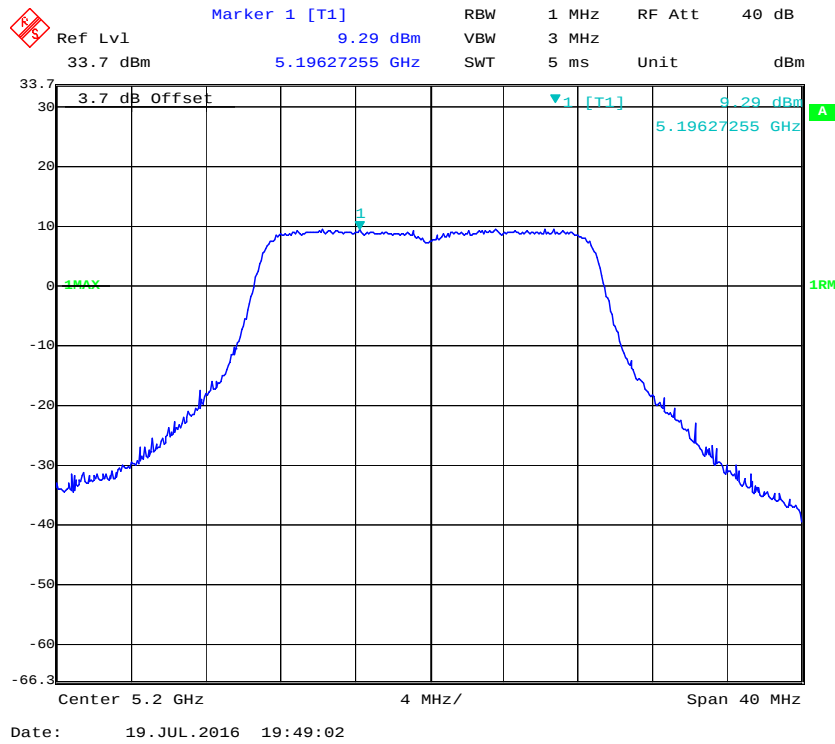


802.11ac20 mode, Power Spectral Density, Antenn 1, 5180 MHz

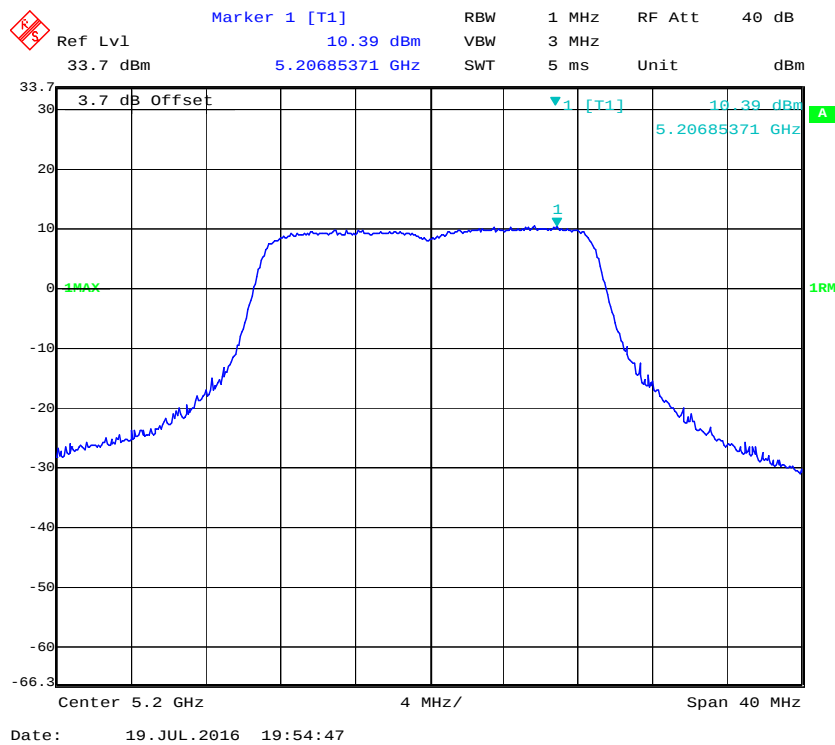


802. 11ac20 mode, Power Spectral Density, Antenn 2, 5180 MHz**802. 11ac20 mode, Power Spectral Density, Antenn 0, 5200 MHz**

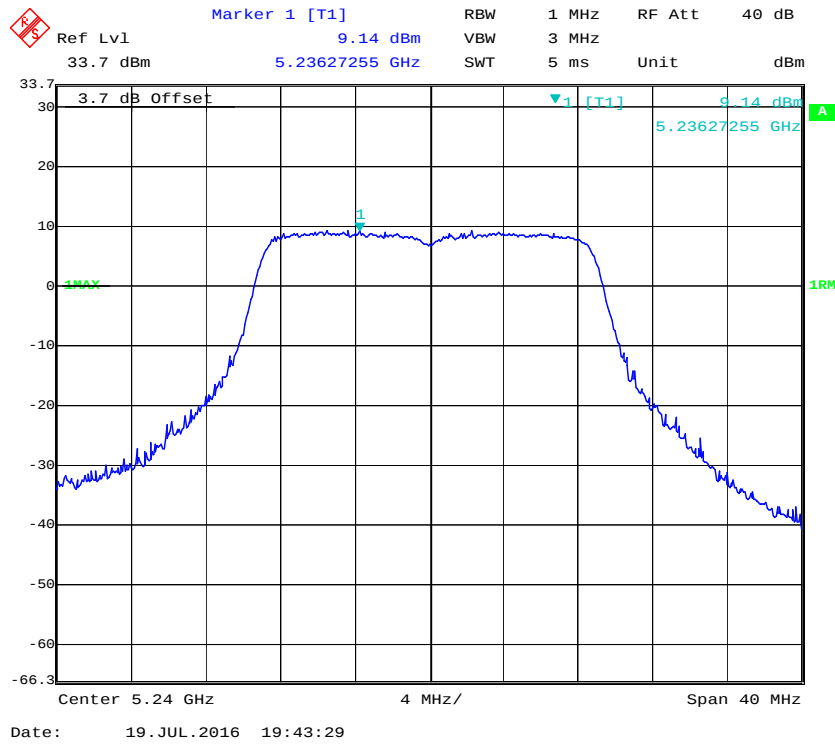
802.11ac20 mode, Power Spectral Density, Antenn 1, 5200 MHz



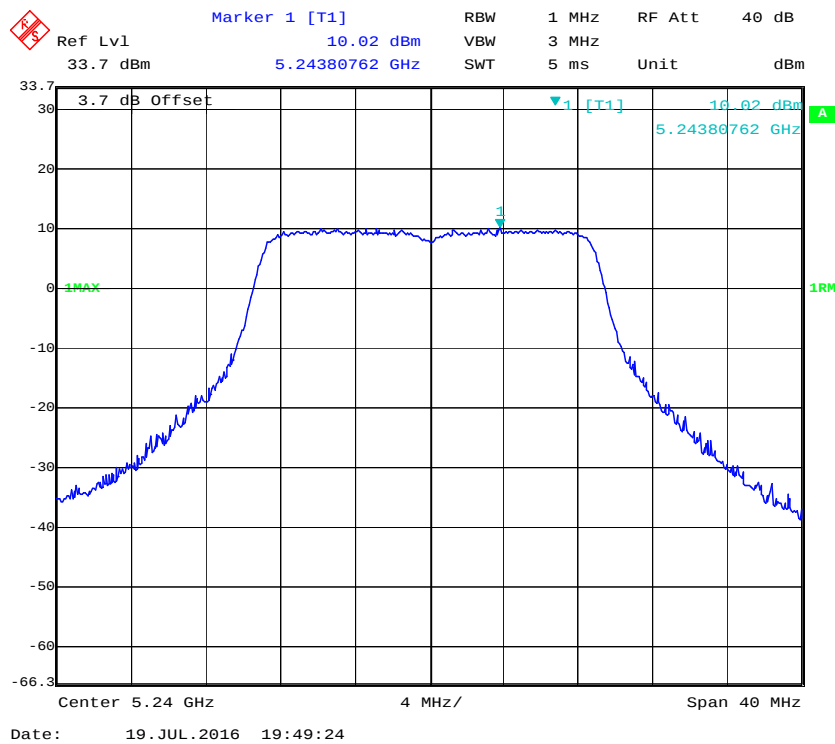
802.11ac20 mode, Power Spectral Density, Antenn 2, 5200 MHz

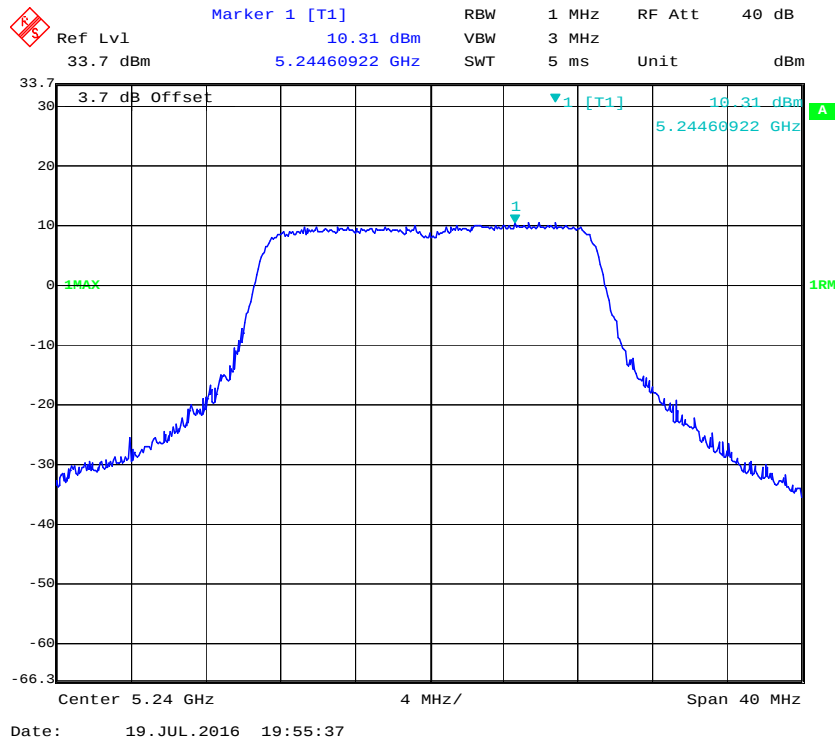
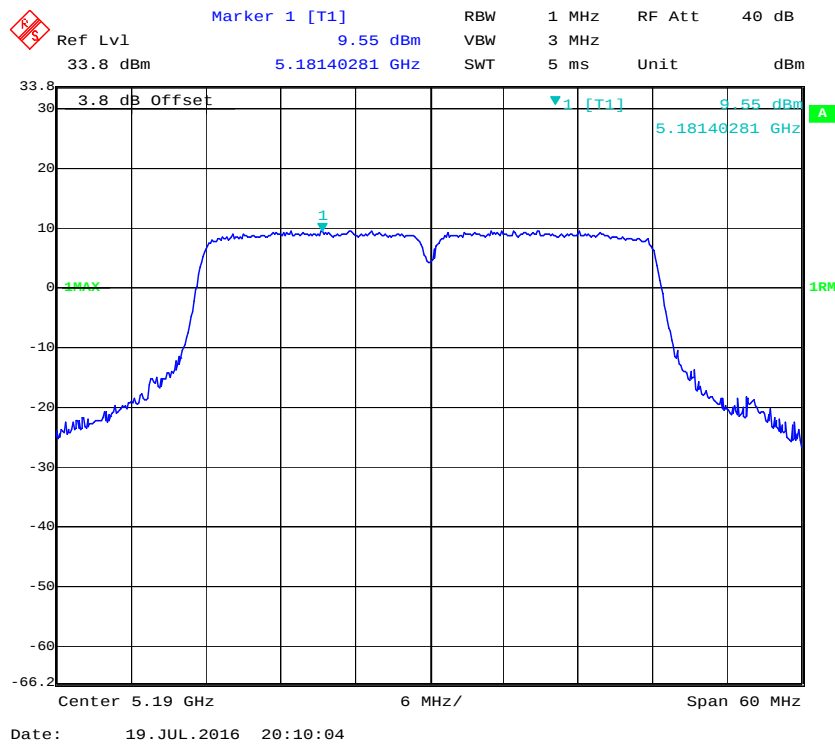


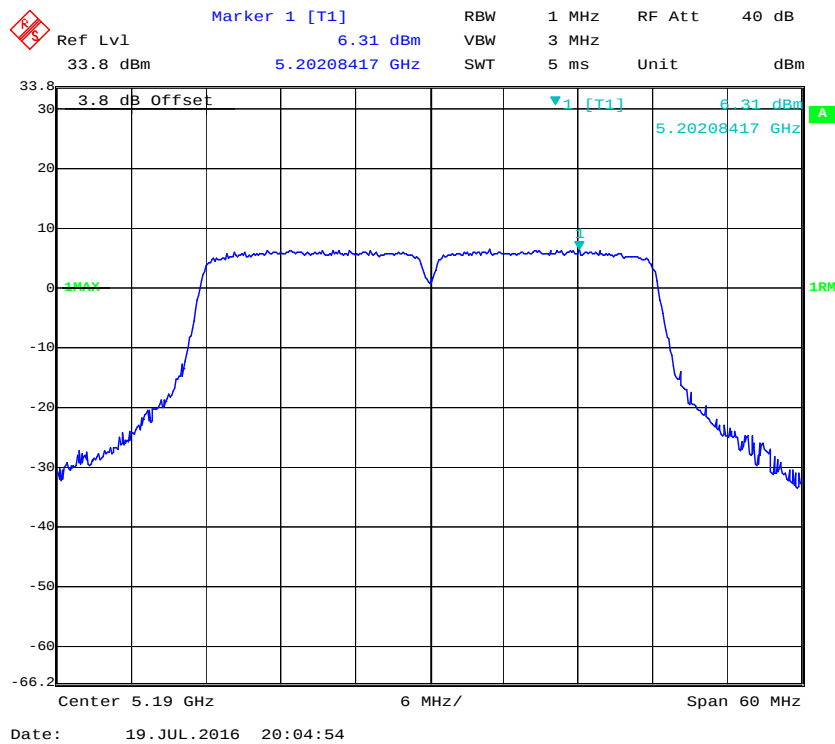
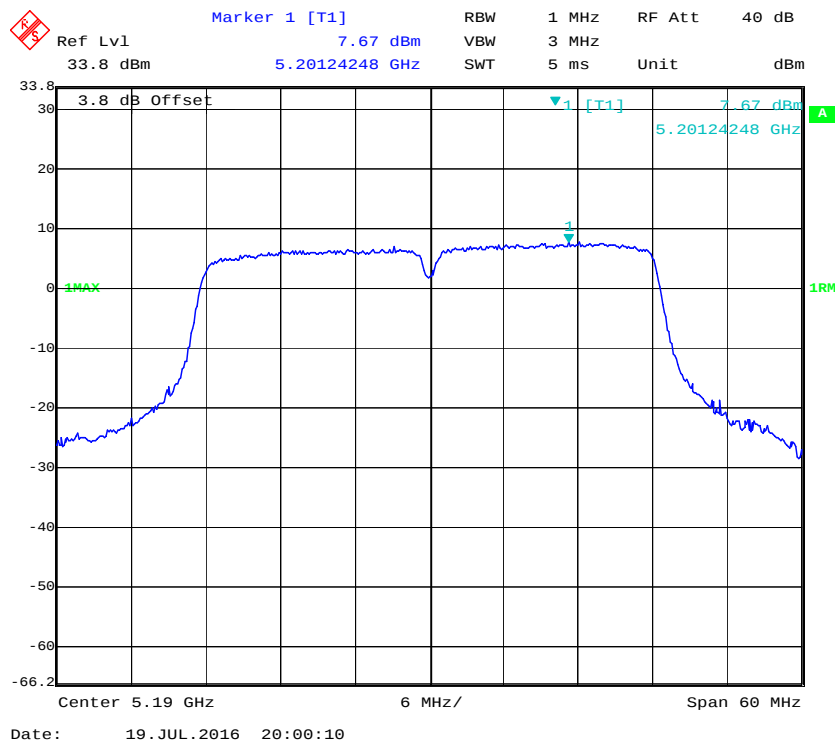
802.11ac20 mode, Power Spectral Density, Antenn 0, 5240 MHz



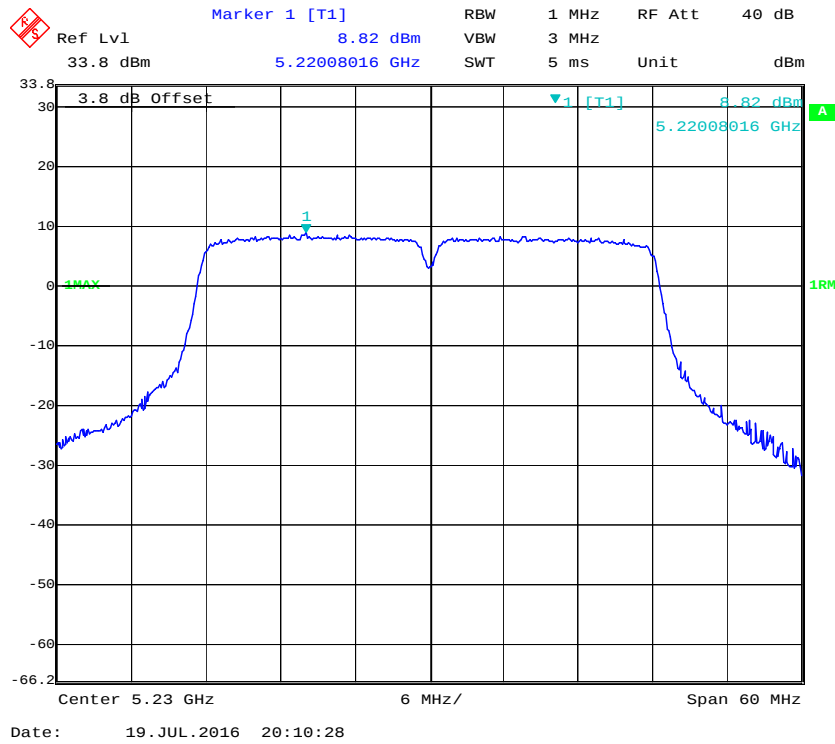
802.11ac20 mode, Power Spectral Density, Antenn 1, 5240 MHz



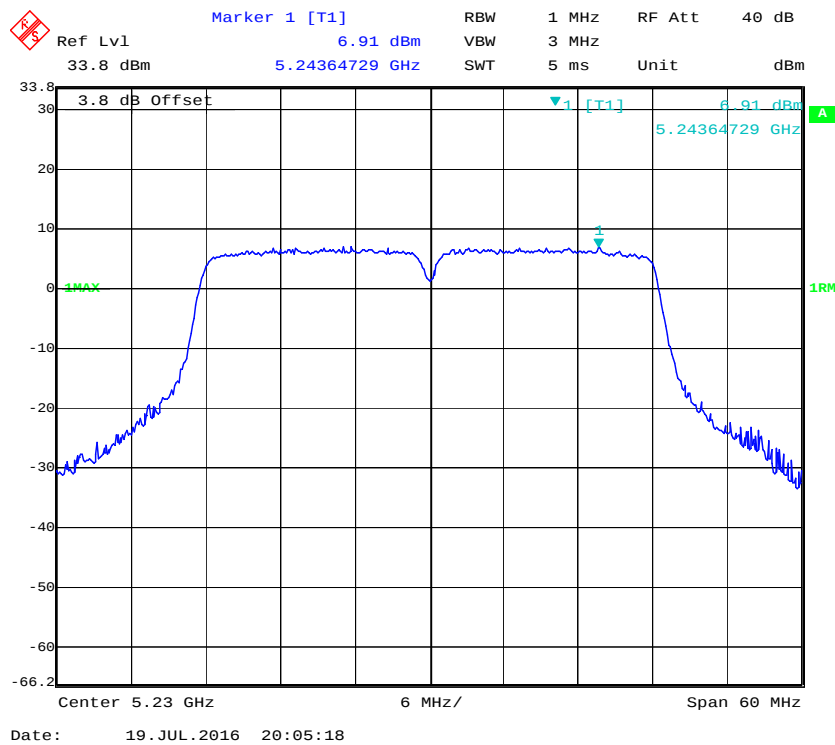
802. 11ac20 mode, Power Spectral Density, Antenn 2, 5240 MHz**802. 11ac40 mode, Power Spectral Density, Antenn 0, 5190 MHz**

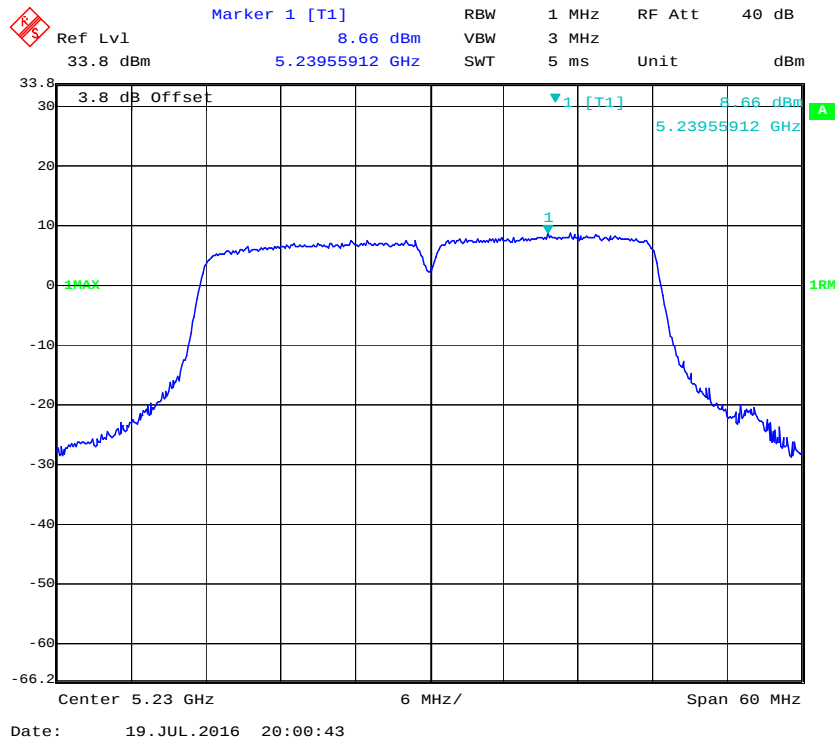
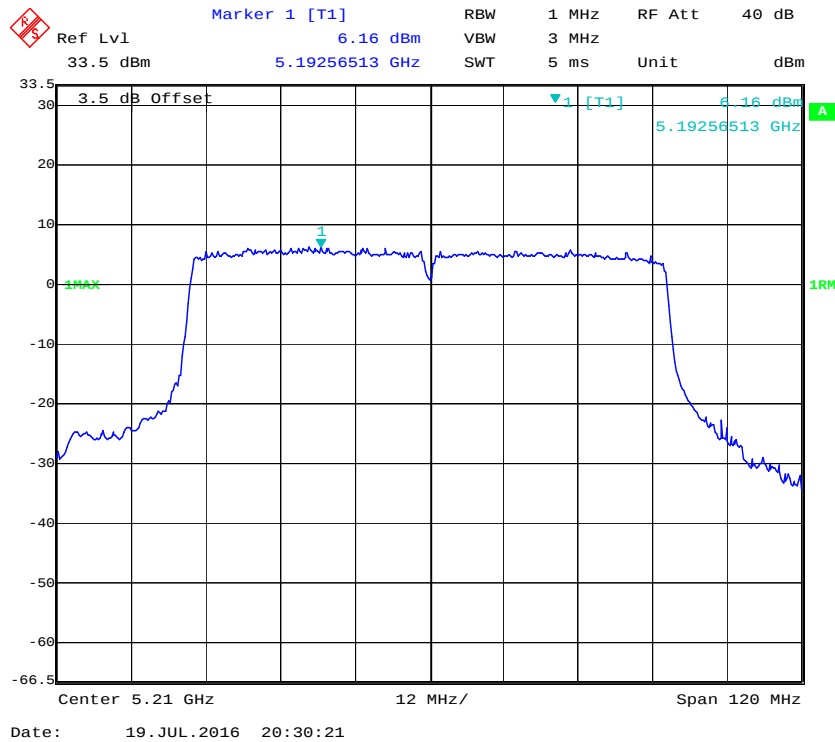
802.11ac40 mode, Power Spectral Density, Antenn 1, 5190 MHz**802.11ac40 mode, Power Spectral Density, Antenn 2, 5190 MHz**

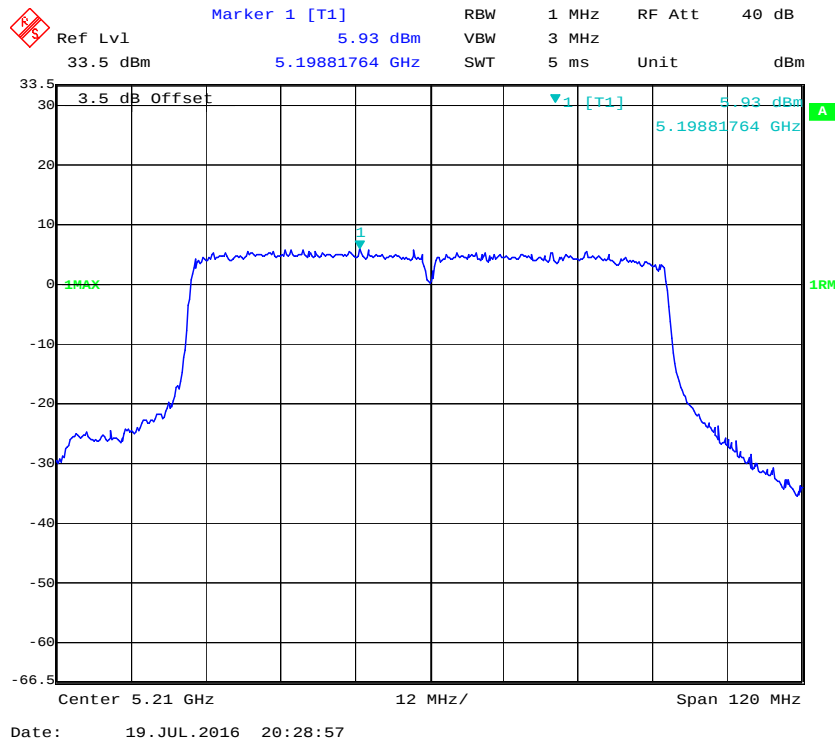
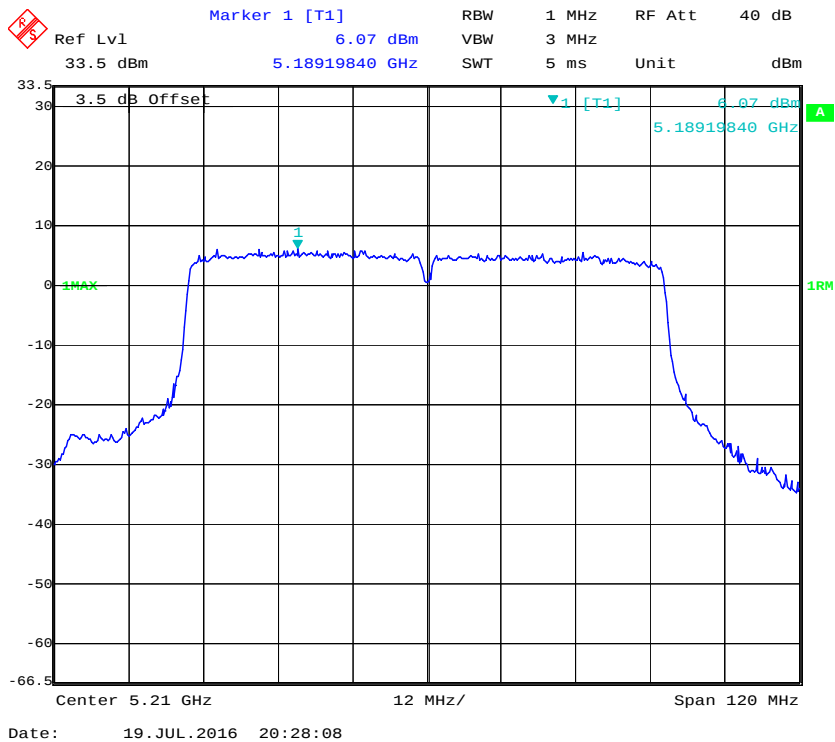
802.11ac40 mode, Power Spectral Density, Antenn 0, 5230 MHz



802.11ac40 mode, Power Spectral Density, Antenn 1, 5230 MHz



802.11ac40 mode, Power Spectral Density, Antenn 2, 5230 MHz**802.11ac80 mode, Power Spectral Density, Antenn 0, 5210 MHz**

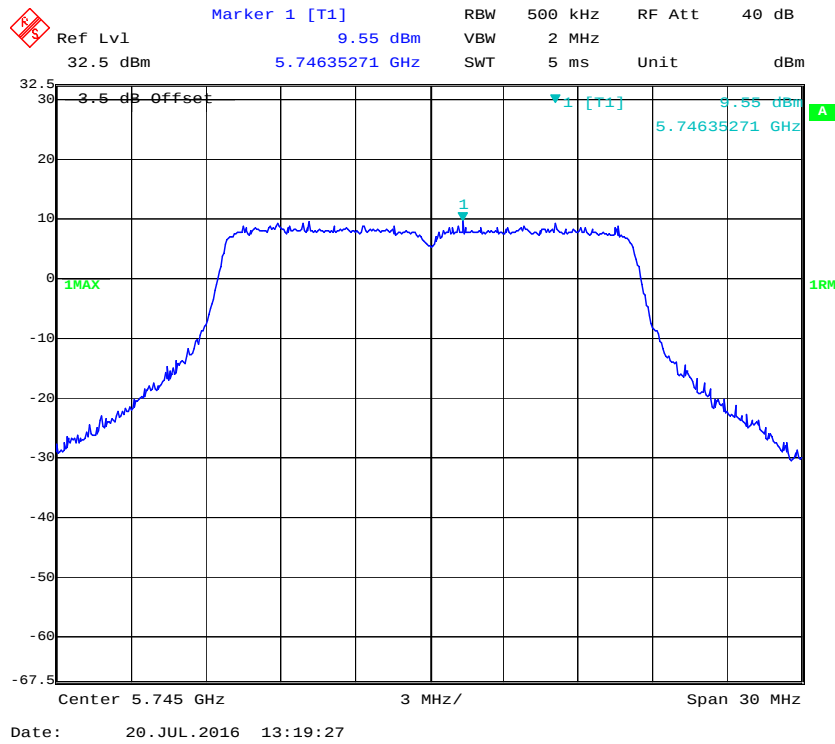
802.11ac80 mode, Power Spectral Density, Antenn 1, 5210 MHz**802.11ac80 mode, Power Spectral Density, Antenn 2, 5210 MHz**

5725 MHz – 5825 MHz:

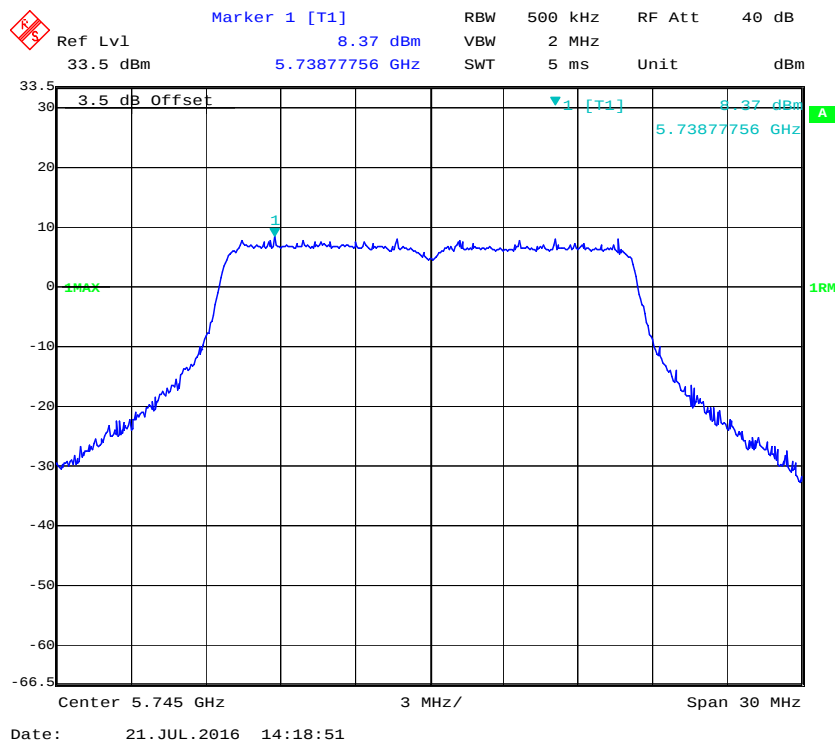
Frequency (MHz)	Antenna Port	Power Spectral Density (dBm/500kHz)	Sum Power spectral density (dBm/500kHz) Chain0+Chain1+chain 2	Limit (dBm/500kHz)
802.11a				
5745	0	9.55	13.661	28.2
	1	8.37		
	2	8.66		
5785	0	9.30	13.758	
	1	8.69		
	2	8.95		
5825	0	8.53	13.187	
	1	8.19		
	2	8.52		
802.11n20				
5745	0	9.84	14.051	28.2
	1	8.95		
	2	8.99		
5785	0	9.52	14.111	
	1	9.37		
	2	9.12		
5825	0	8.21	13.569	
	1	9.07		
	2	9.06		
802.11n40				
5755	0	6.22	10.339	28.2
	1	5.22		
	2	5.18		
5795	0	5.65	10.127	
	1	5.23		
	2	5.17		

Frequency (MHz)	Antenna Port	Power Spectral Density (dBm/500kHz)	Sum Power spectral density (dBm/500kHz) Chain0+Chain1+chain 2	Limit (dBm/500kHz)
802.11ac20				
5745	0	10.37	14.216	28.2
	1	9.25		
	2	8.51		
5785	0	10.81	14.653	
	1	9.63		
	2	9.01		
5825	0	9.06	13.817	
	1	9.47		
	2	8.56		
802.11ac40				
5755	0	7.81	11.479	28.2
	1	6.37		
	2	5.66		
5795	0	6.93	11.151	
	1	6.16		
	2	5.99		
802.11ac80				
5775	0	2.70	7.56	28.2
	1	2.92		
	2	2.75		

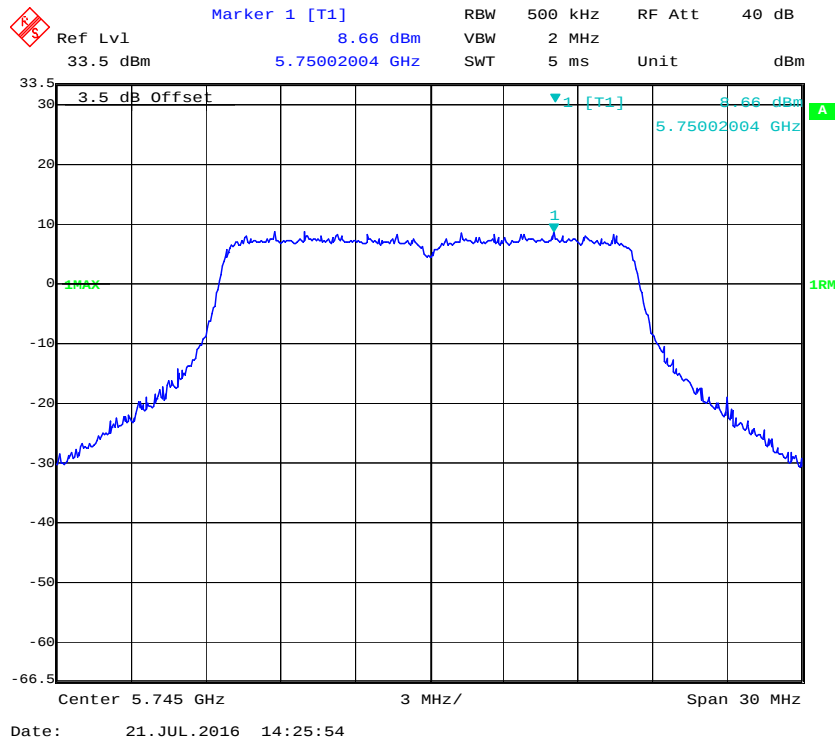
802.11a mode, Power Spectral Density, Antenn 0, 5745 MHz



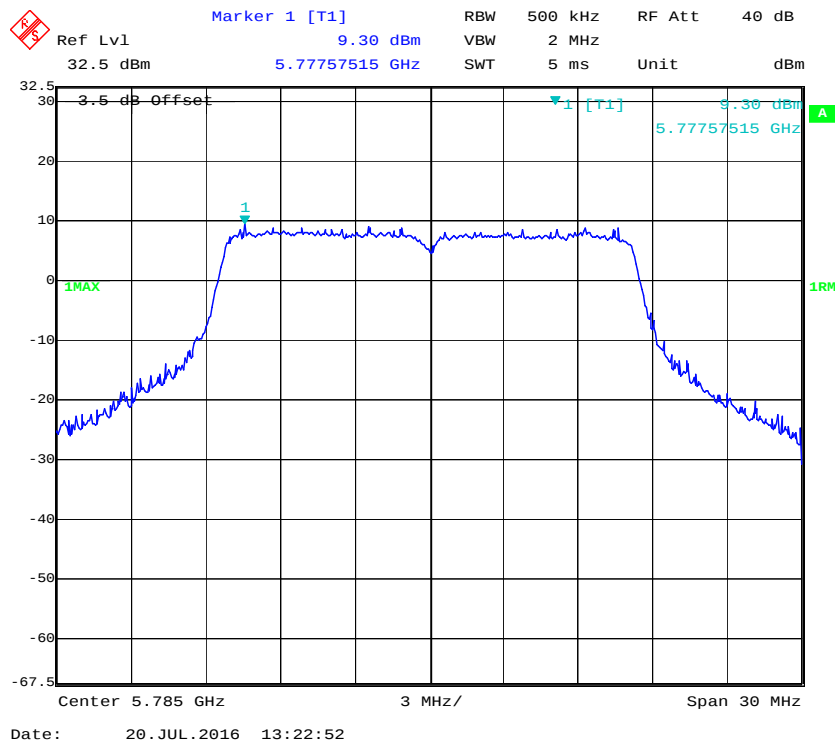
802.11a mode, Power Spectral Density, Antenn 1, 5745 MHz



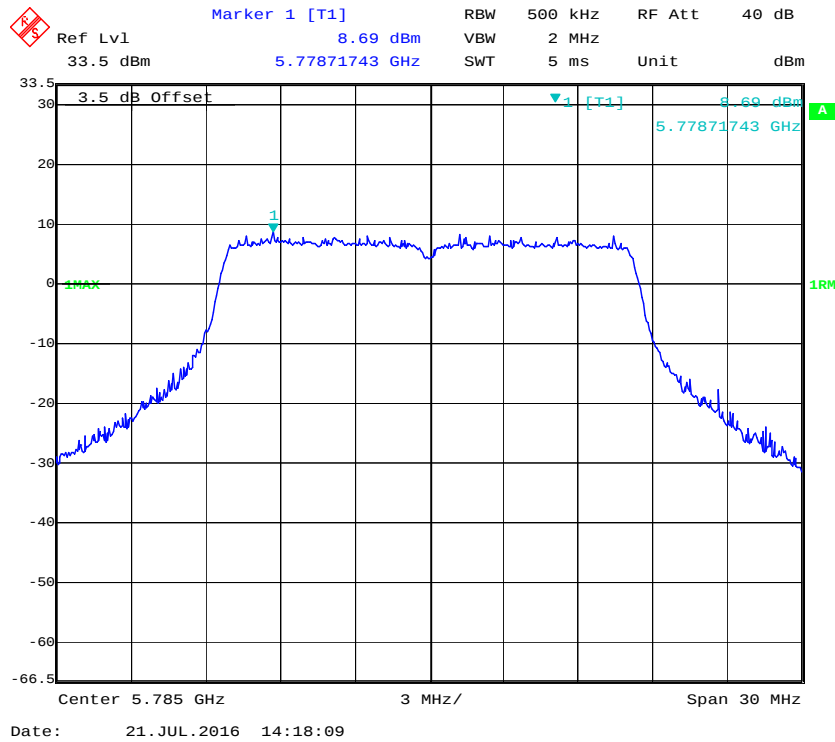
802.11a mode, Power Spectral Density, Antenn 2, 5745 MHz



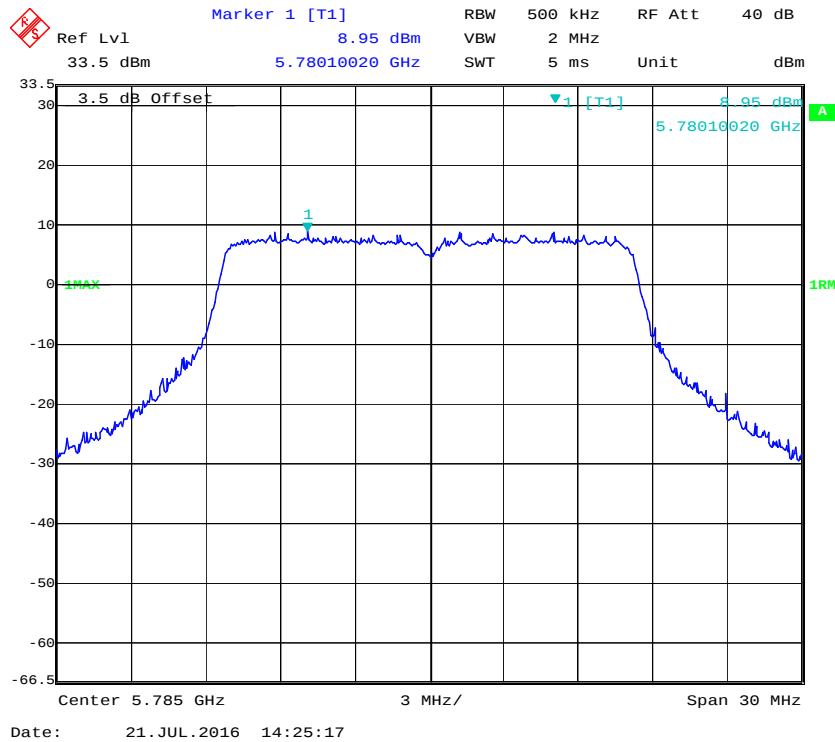
802.11a mode, Power Spectral Density, Antenn 0, 5785 MHz



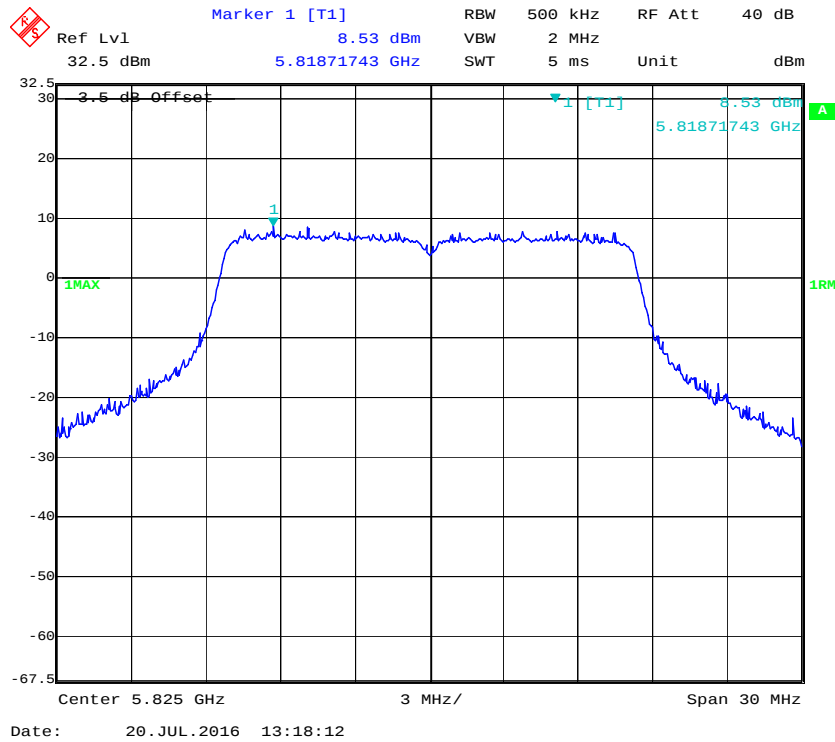
802.11a mode, Power Spectral Density, Antenn 1, 5785 MHz



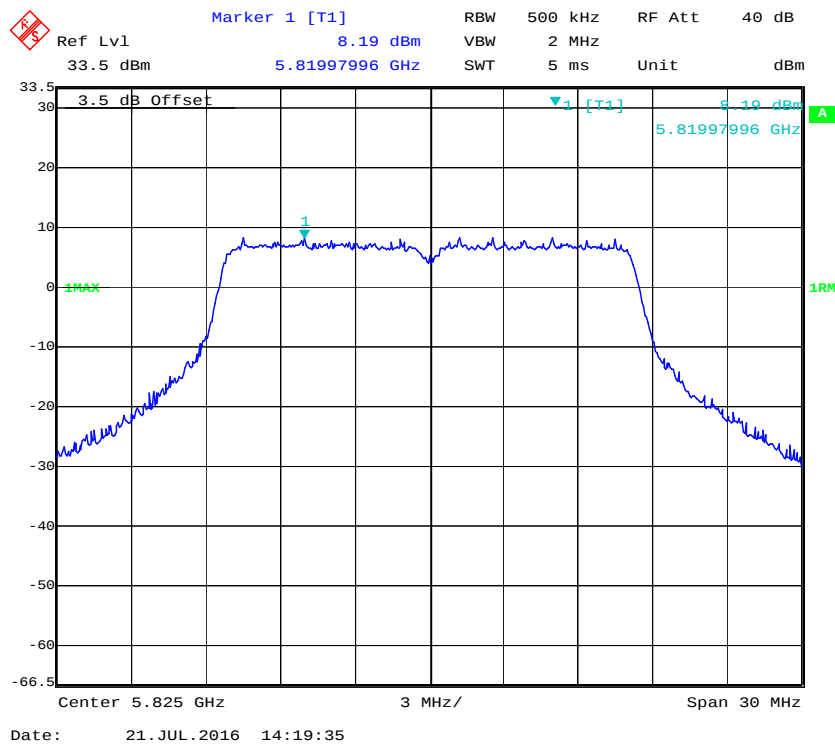
802.11a mode, Power Spectral Density, Antenn 2, 5785 MHz



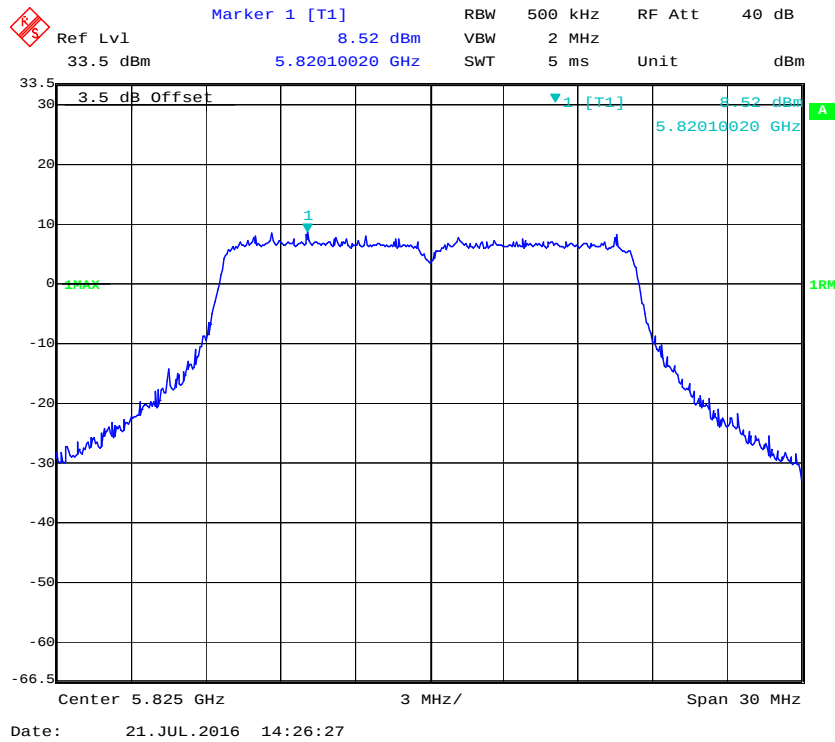
802.11a mode, Power Spectral Density, Antenn 0, 5825 MHz



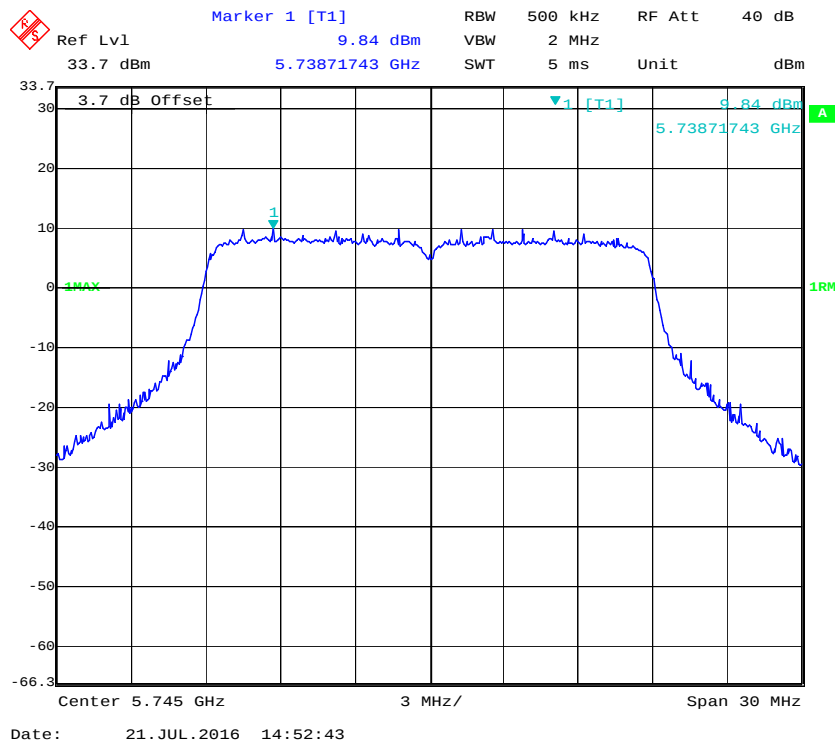
802.11a mode, Power Spectral Density, Antenn 1, 5825 MHz



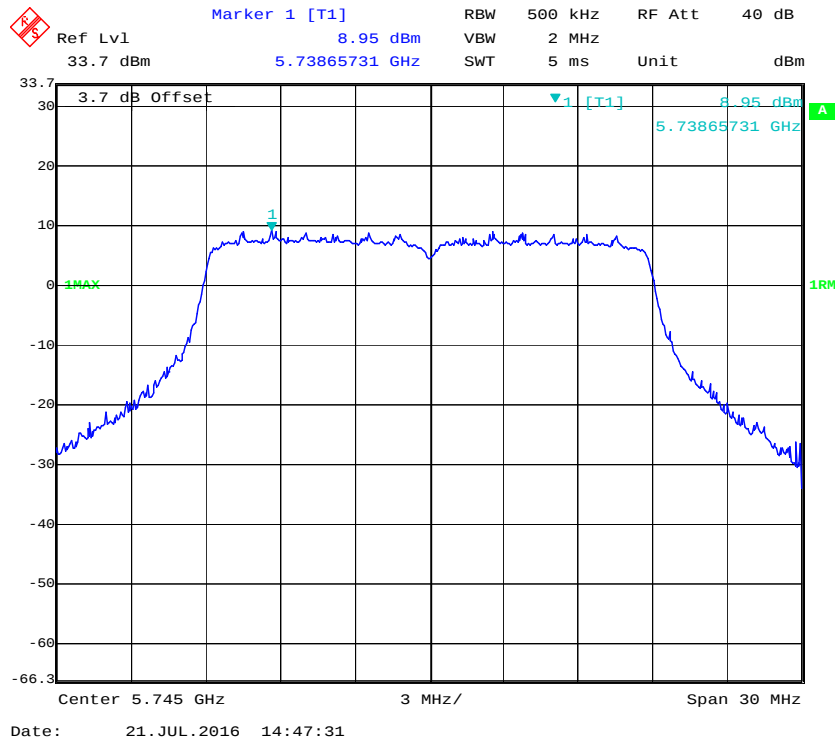
802.11a mode, Power Spectral Density, Antenn 2, 5825 MHz



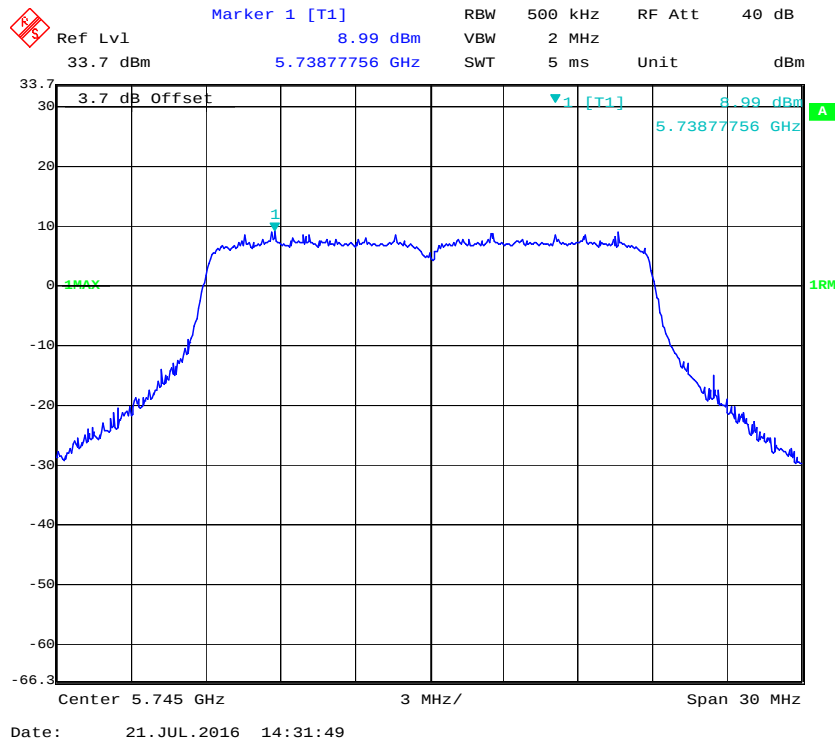
802.11n20 mode, Power Spectral Density, Antenn 0, 5745 MHz



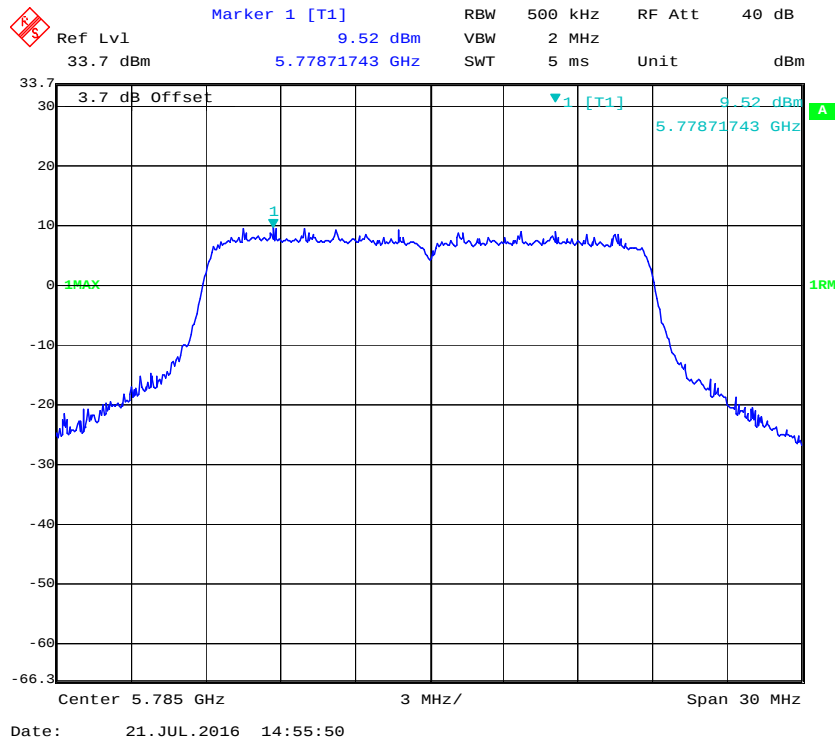
802.11n20 mode, Power Spectral Density, Antenn 1, 5745 MHz



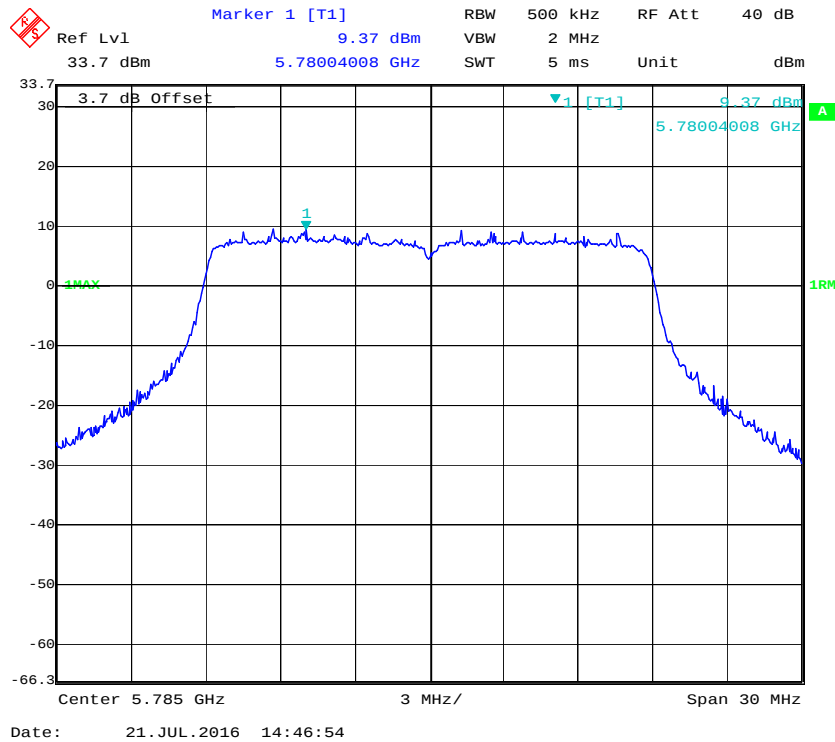
802.11n20 mode, Power Spectral Density, Antenn 2, 5745 MHz



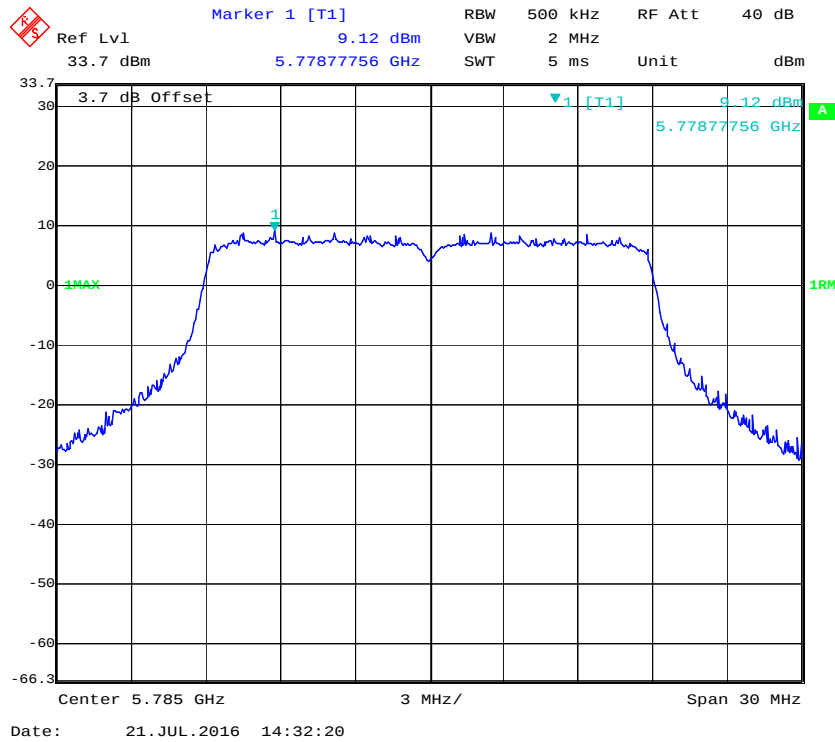
802.11n20 mode, Power Spectral Density, Antenn 0, 5785 MHz



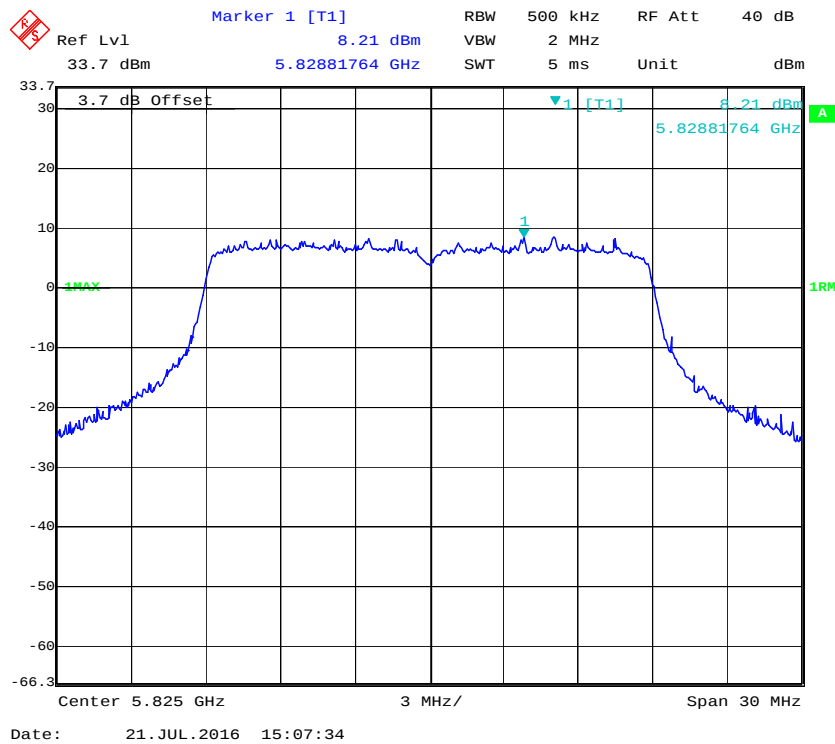
802.11n20 mode, Power Spectral Density, Antenn 1, 5785 MHz



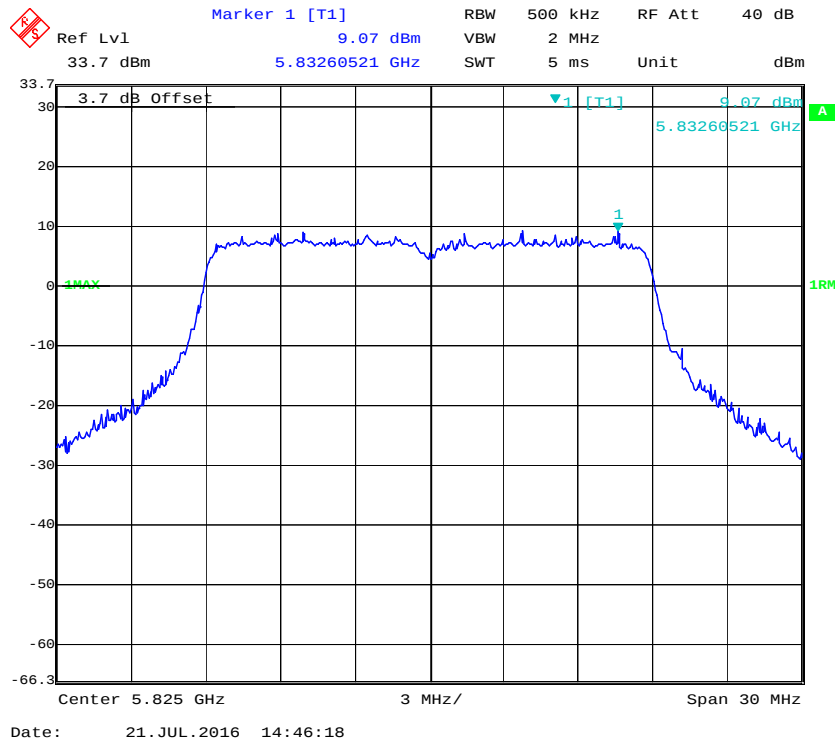
802.11n20 mode, Power Spectral Density, Antenn 2, 5785 MHz



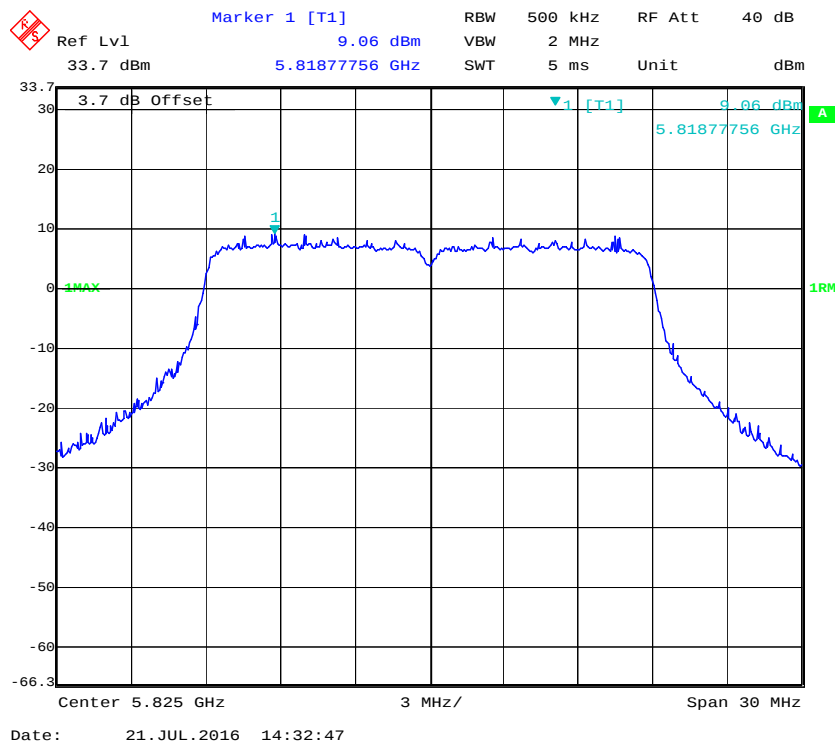
802.11n20 mode, Power Spectral Density, Antenn 0, 5825 MHz



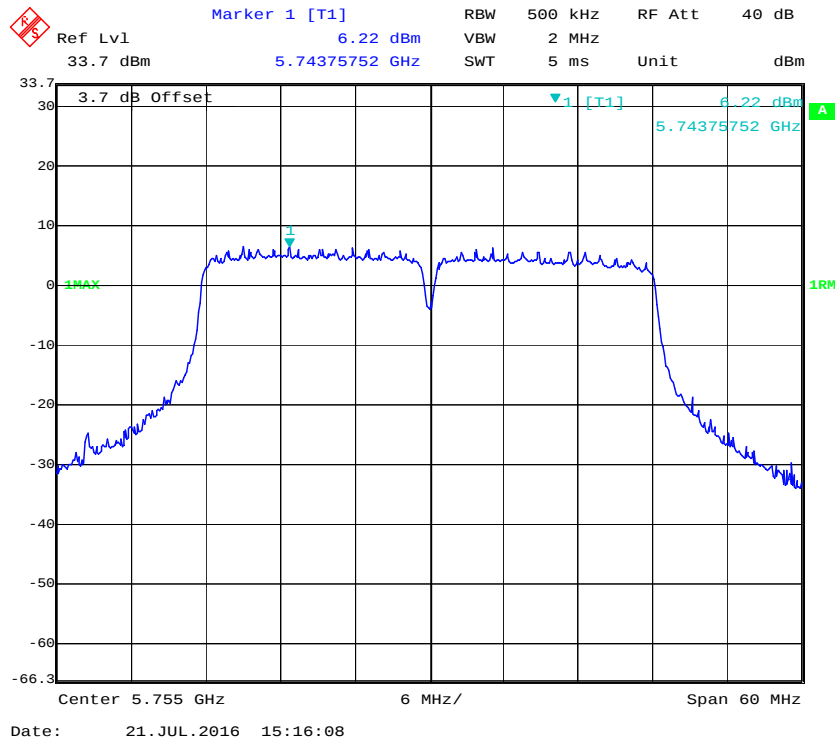
802.11n20 mode, Power Spectral Density, Antenn 1, 5825 MHz



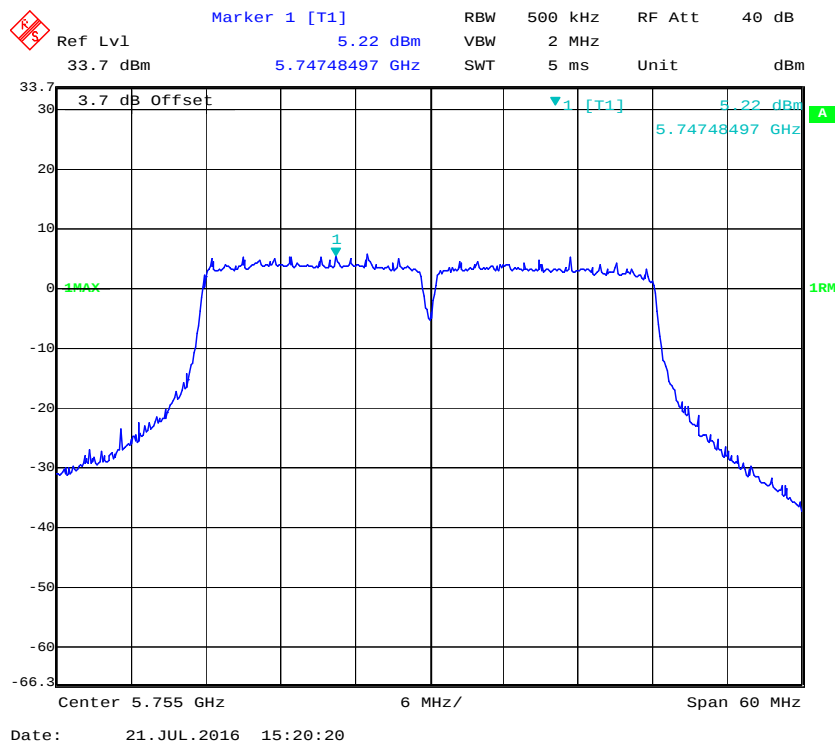
802.11n20 mode, Power Spectral Density, Antenn 2, 5825 MHz

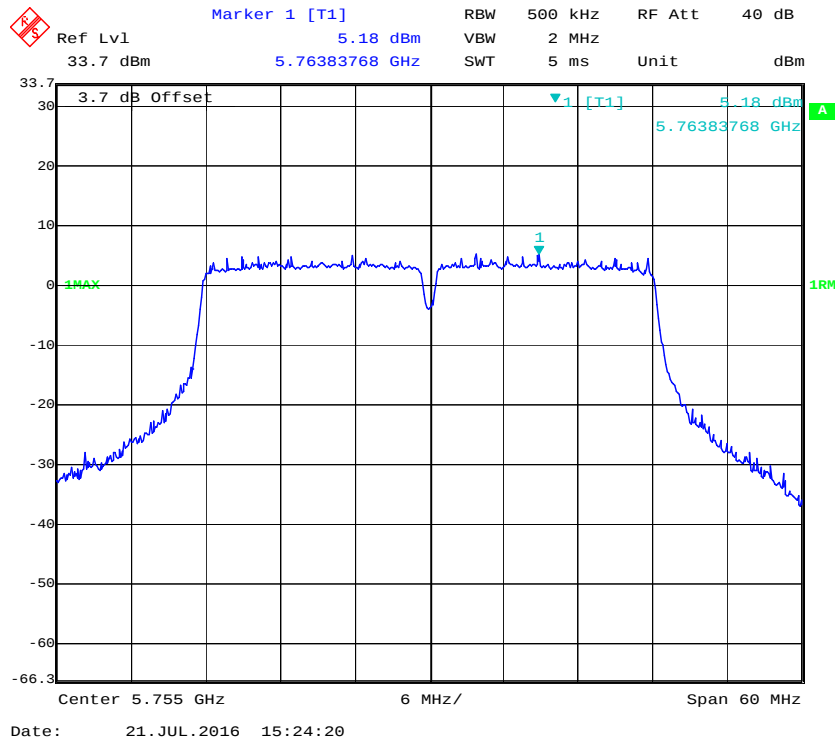
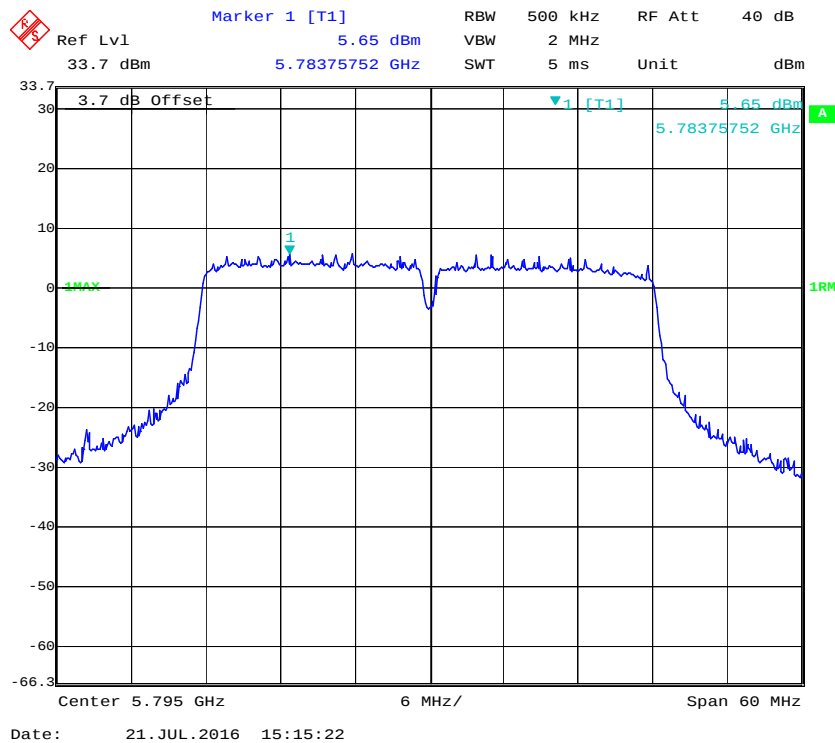


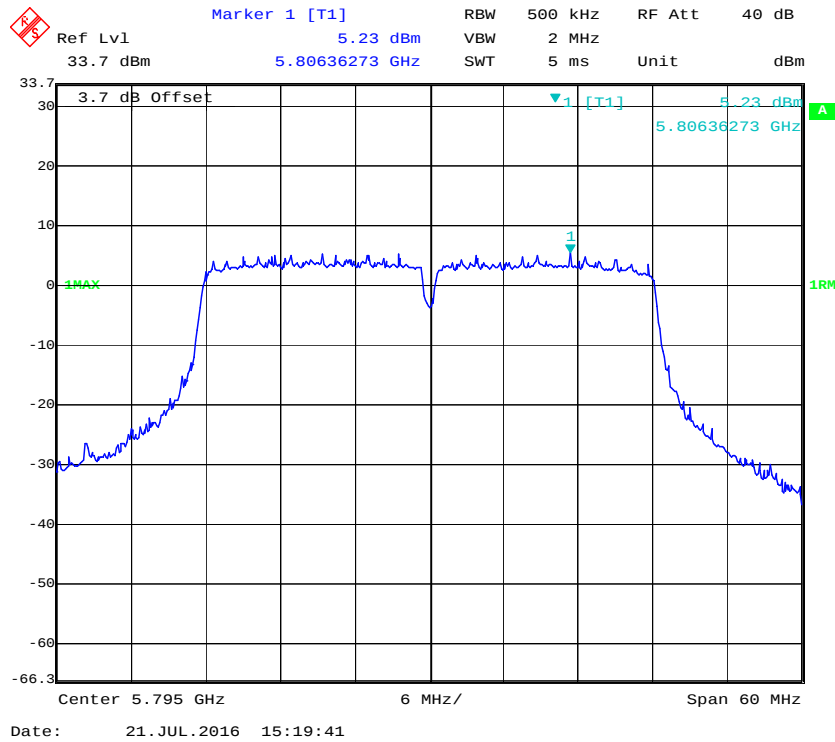
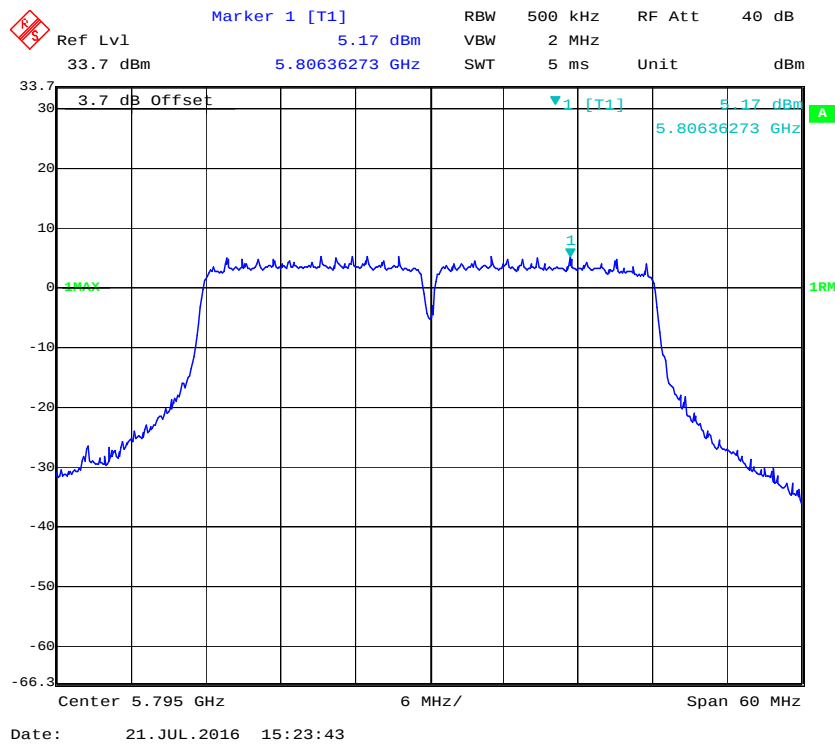
802.11n40 mode, Power Spectral Density, Antenn 0, 5755 MHz

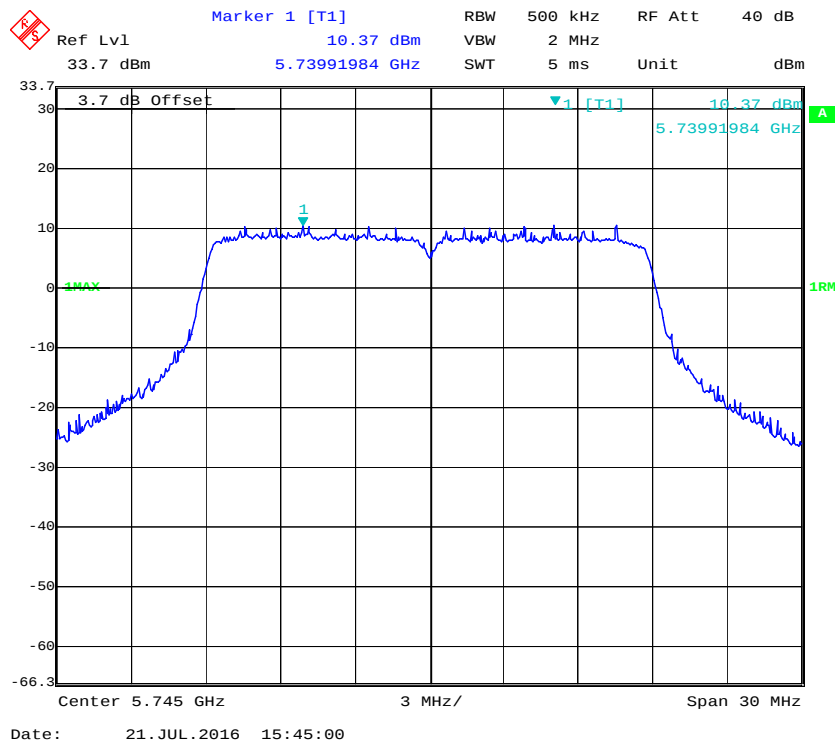
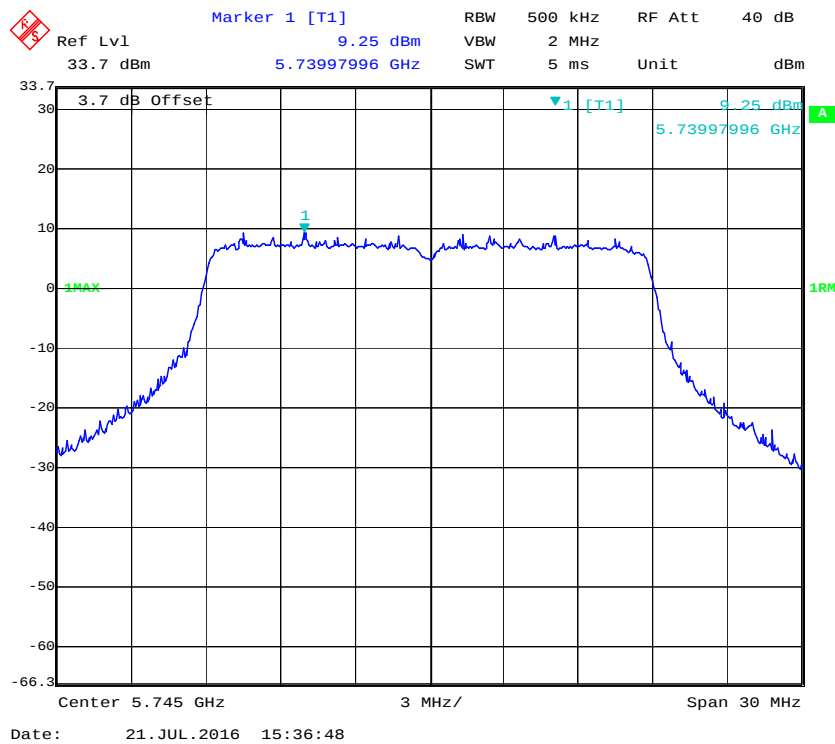


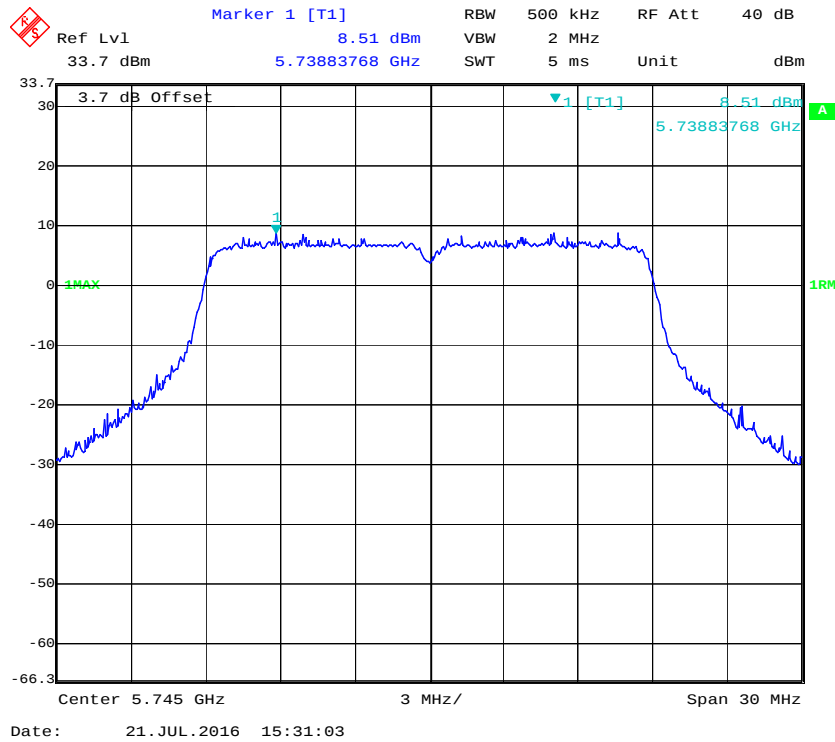
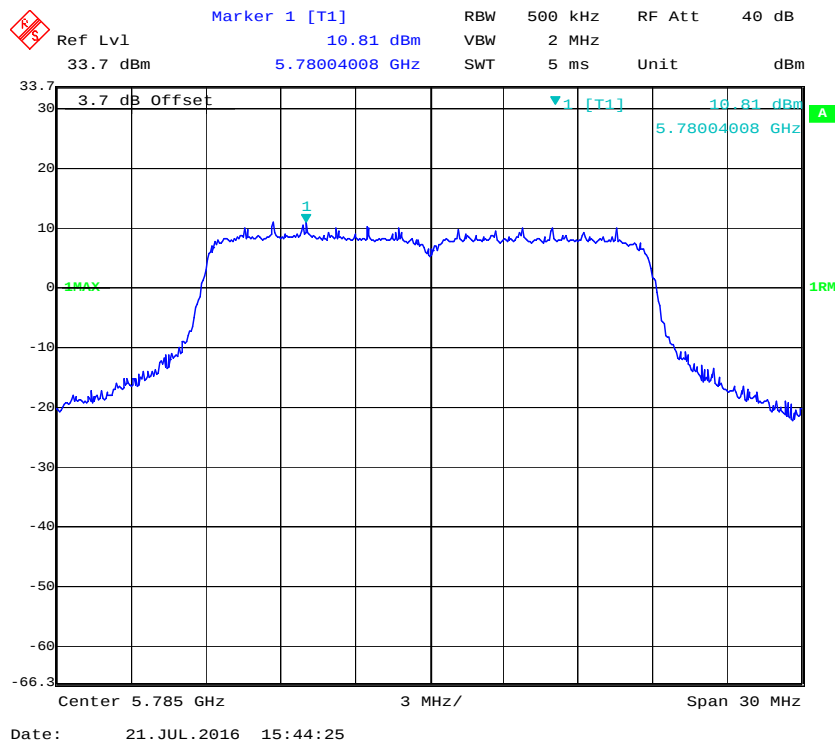
802.11n40 mode, Power Spectral Density, Antenn 1, 5755 MHz



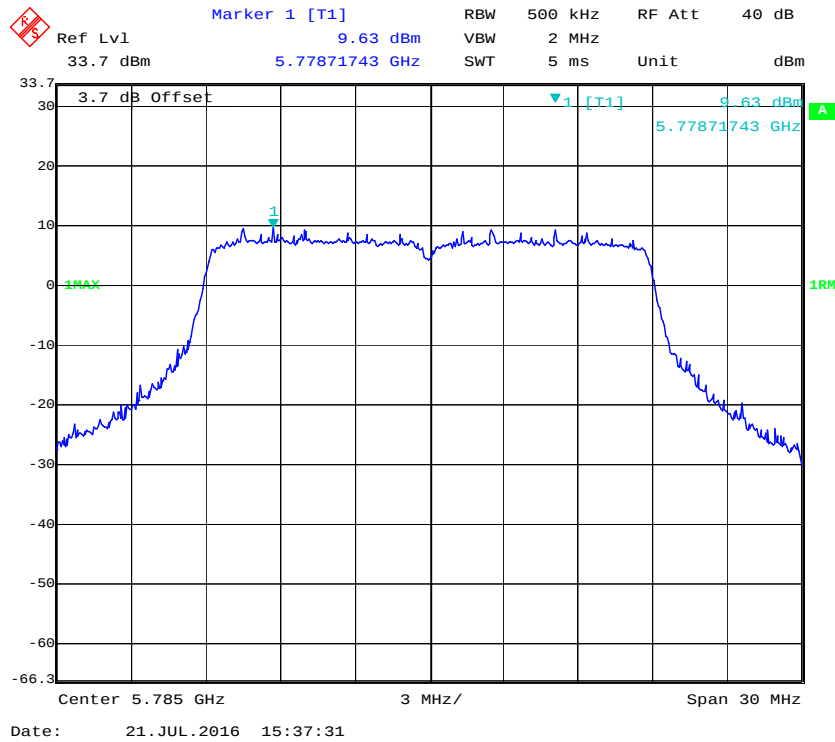
802.11n40 mode, Power Spectral Density, Antenn 2, 5755 MHz**802.11n40 mode, Power Spectral Density, Antenn 0, 5795 MHz**

802.11n40 mode, Power Spectral Density, Antenn 1, 5795 MHz**802.11n40 mode, Power Spectral Density, Antenn 2, 5795 MHz**

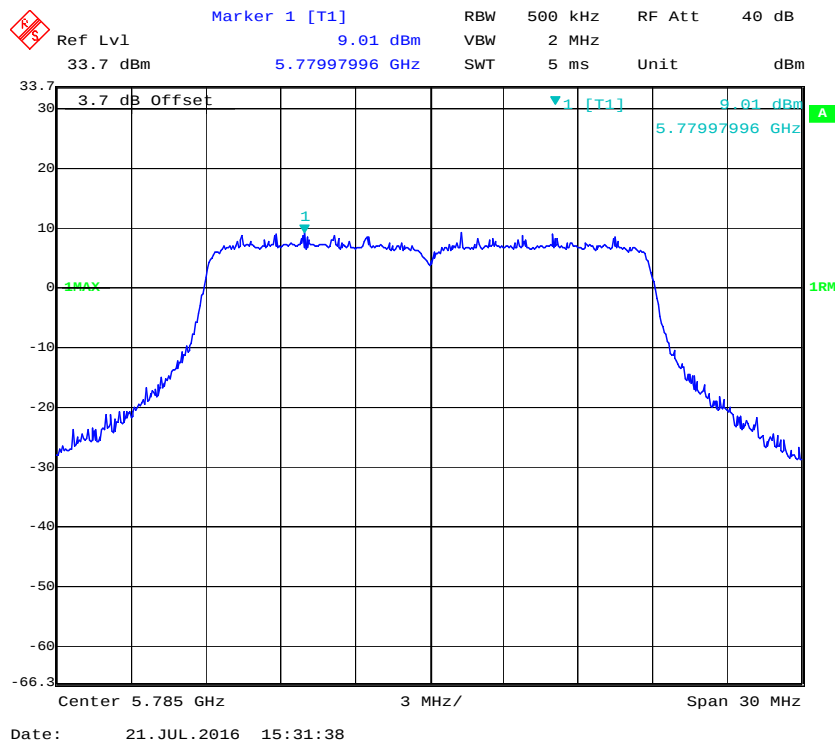
802.11ac20 mode, Power Spectral Density, Antenn 0, 5745 MHz**802.11ac20 mode, Power Spectral Density, Antenn 1, 5745 MHz**

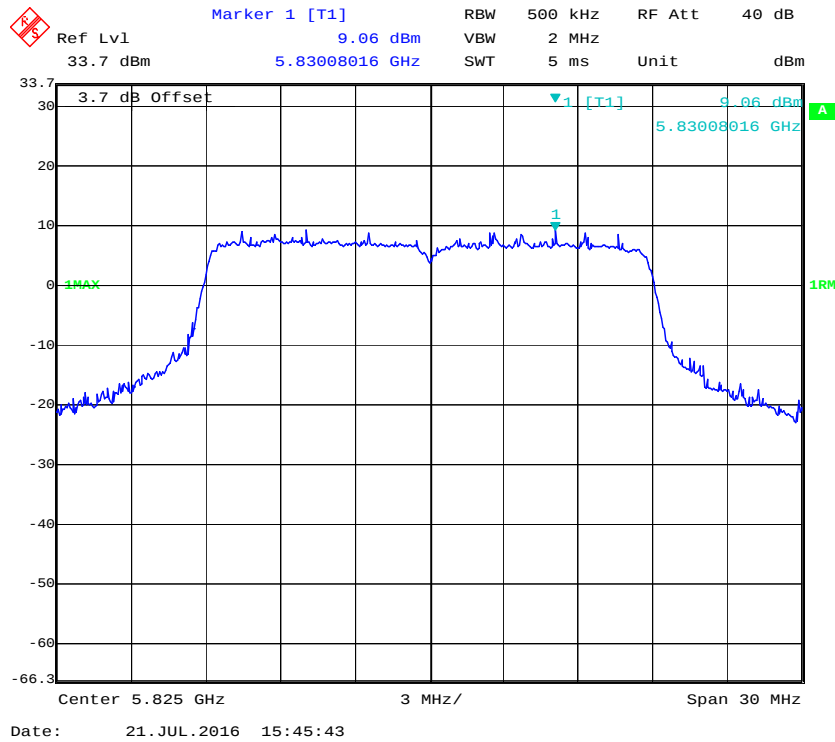
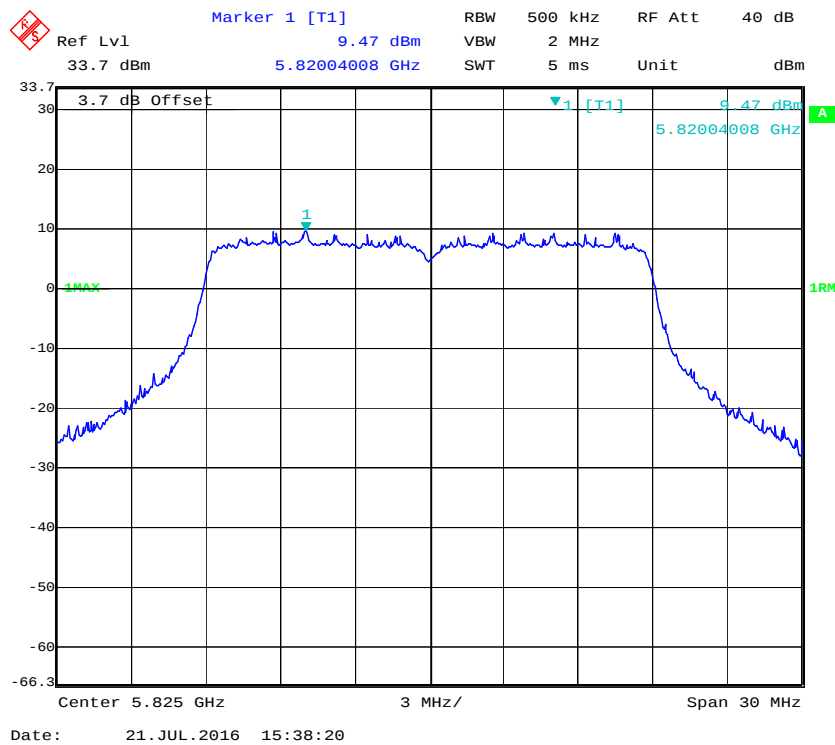
802. 11ac20 mode, Power Spectral Density, Antenn 2, 5745 MHz**802. 11ac20 mode, Power Spectral Density, Antenn 0, 5785 MHz**

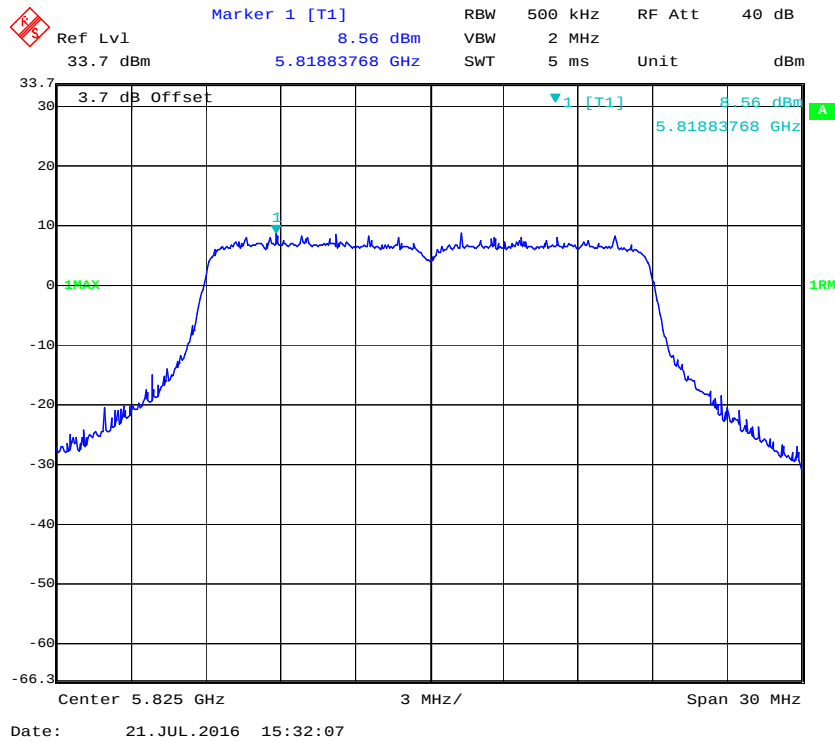
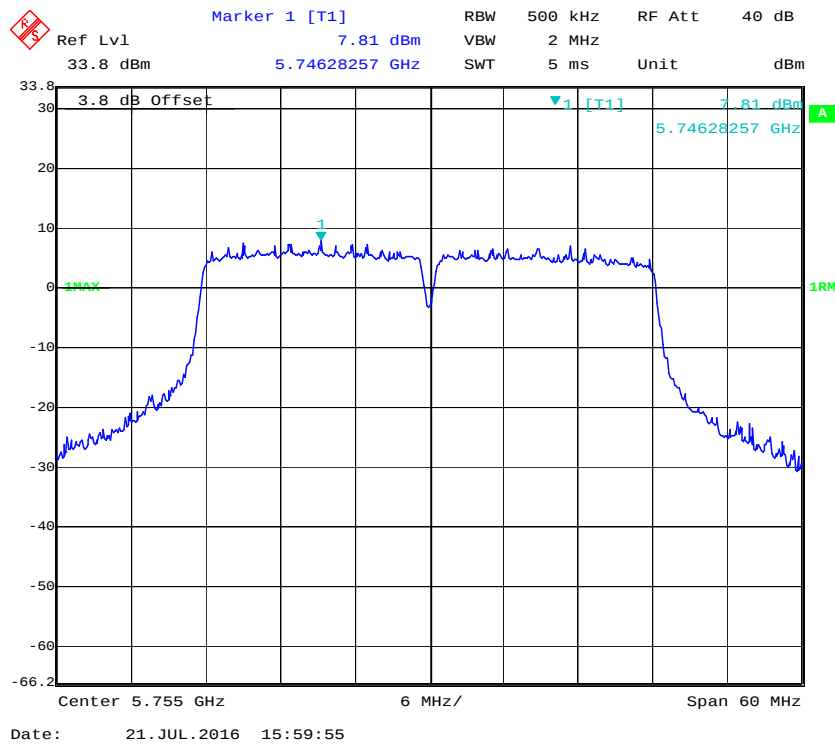
802. 11ac20 mode, Power Spectral Density, Antenn 1, 5785 MHz

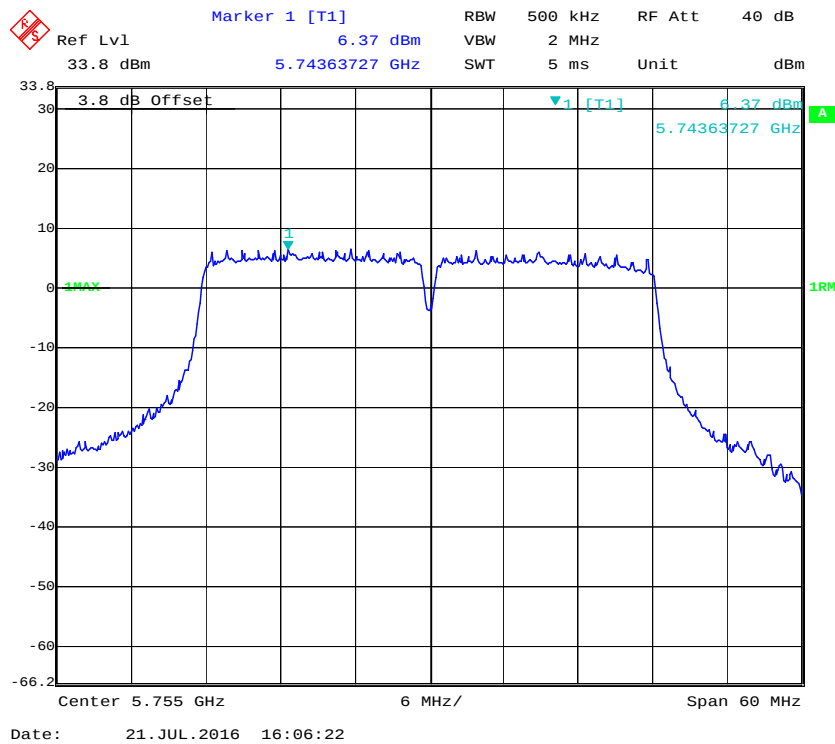
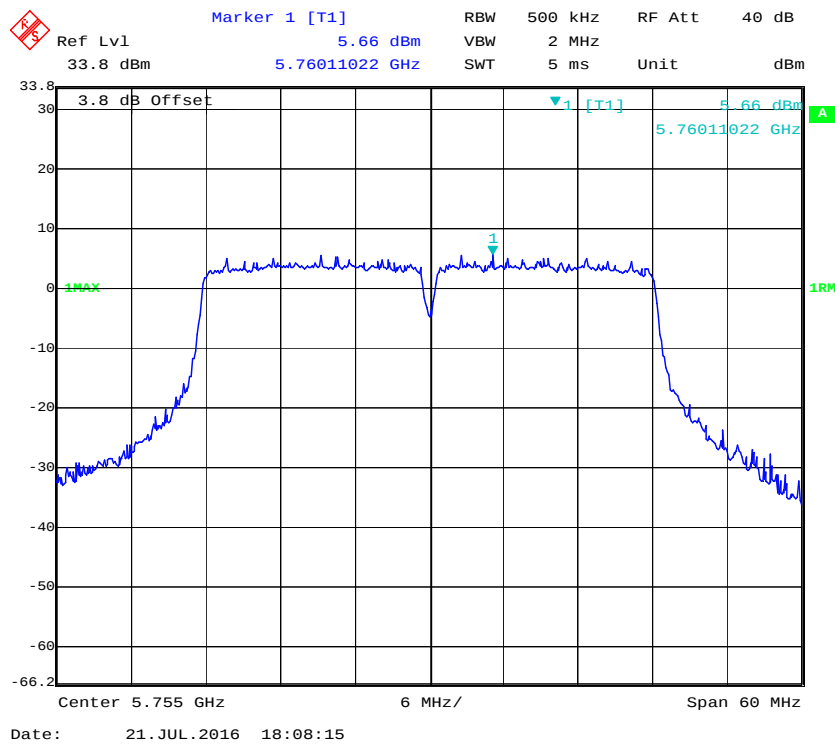


802. 11ac20 mode, Power Spectral Density, Antenn 2, 5785 MHz

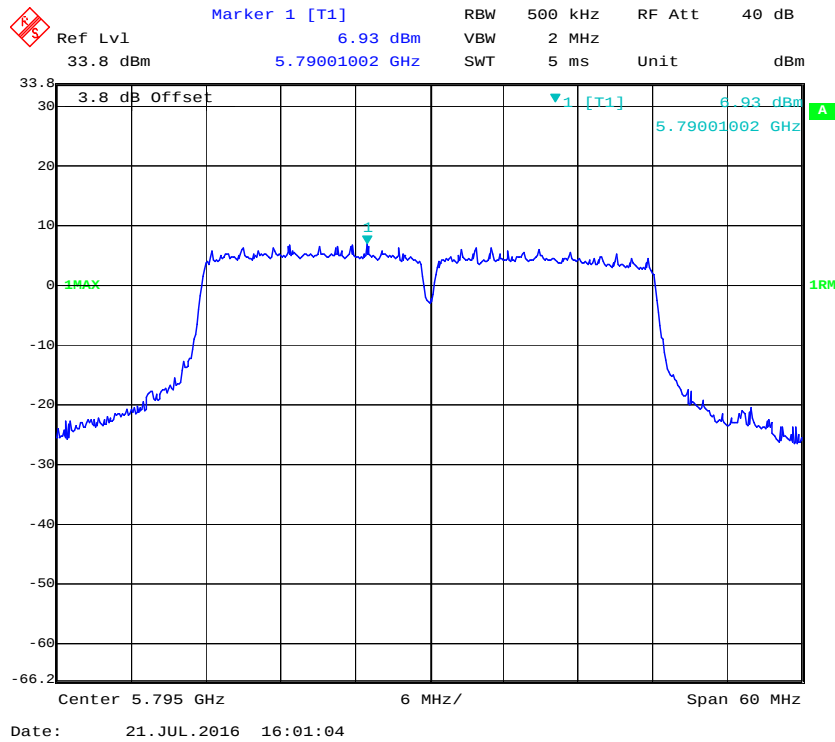


802. 11ac20 mode, Power Spectral Density, Antenn 0, 5825 MHz**802. 11ac20 mode, Power Spectral Density, Antenn 1, 5825 MHz**

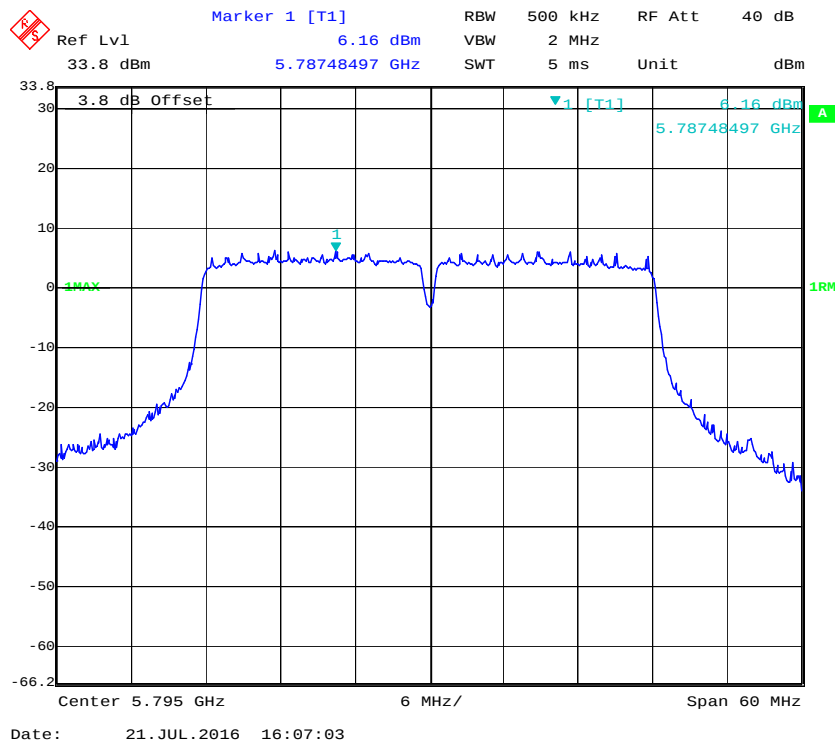
802. 11ac20 mode, Power Spectral Density, Antenn 2, 5825 MHz**802. 11ac40 mode, Power Spectral Density, Antenn 0, 5755 MHz**

802.11ac40 mode, Power Spectral Density, Antenn 1, 5755 MHz**802.11ac40 mode, Power Spectral Density, Antenn 2, 5755 MHz**

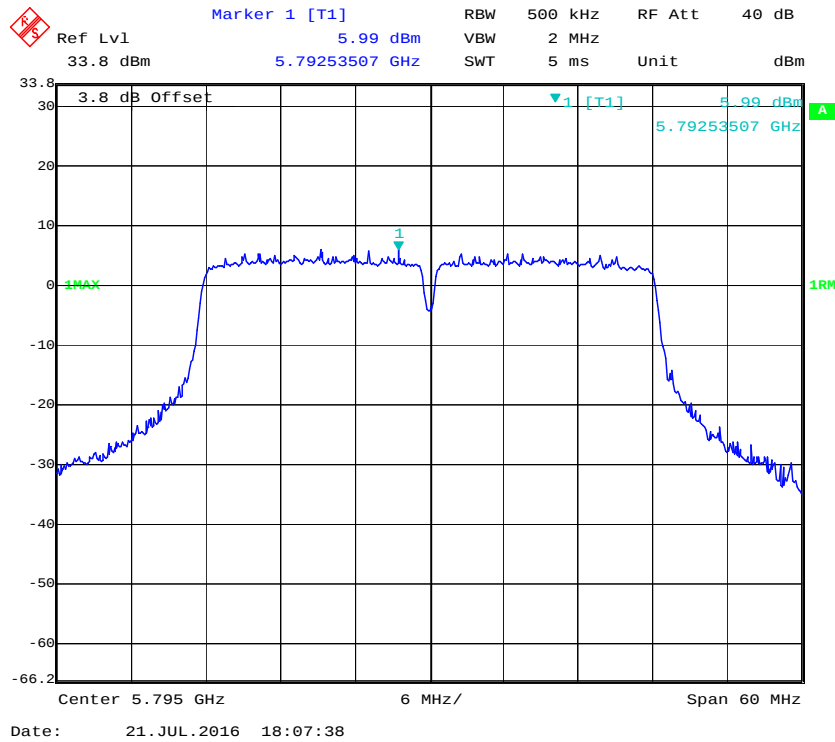
802. 11ac40 mode, Power Spectral Density, Antenn 0, 5795 MHz



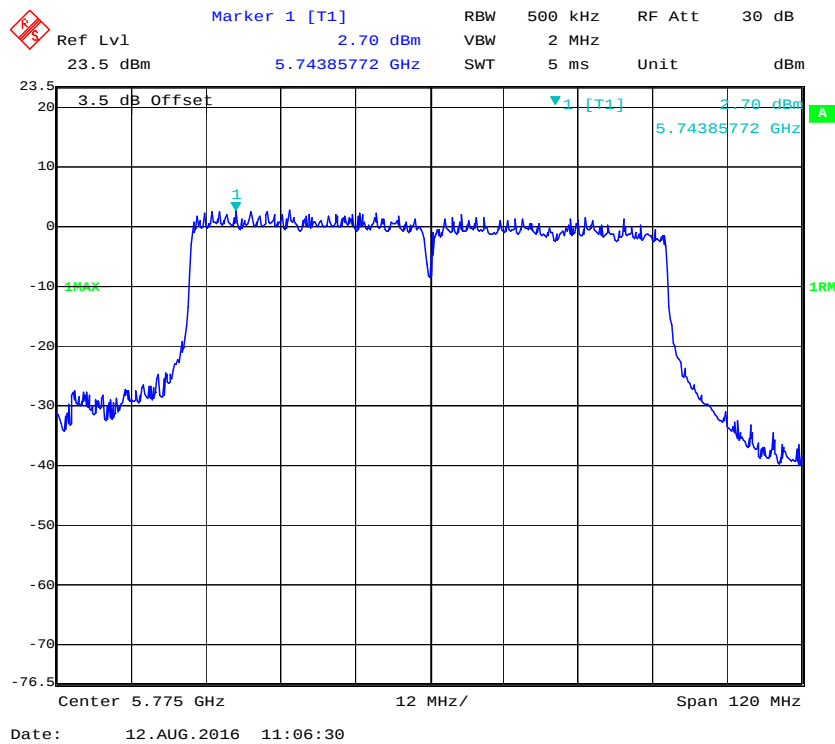
802. 11ac40 mode, Power Spectral Density, Antenn 1, 5795 MHz

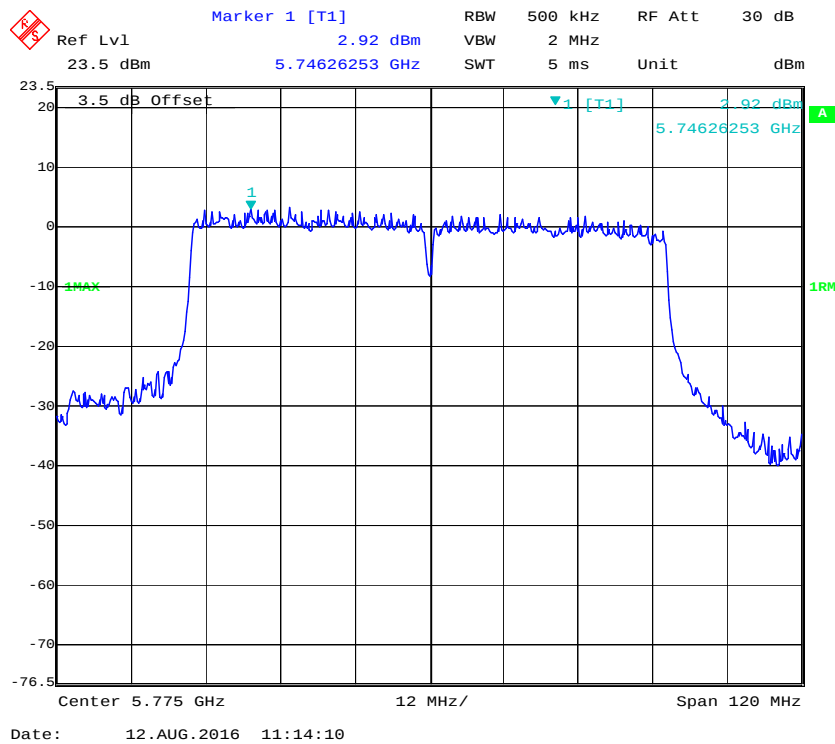
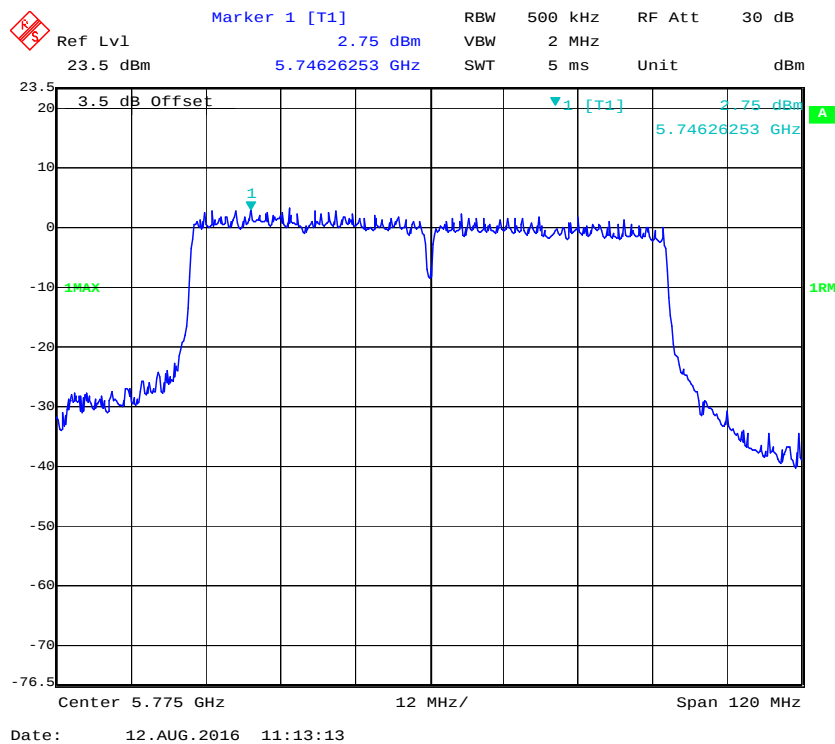


802.11ac40 mode, Power Spectral Density, Antenn 2, 5795 MHz



802.11ac80 mode, Power Spectral Density, Antenn 0, 5775 MHz



802.11ac80 mode, Power Spectral Density, Antenn 1, 5775 MHz**802.11ac80 mode, Power Spectral Density, Antenn 2, 5775 MHz********* END OF REPORT *******