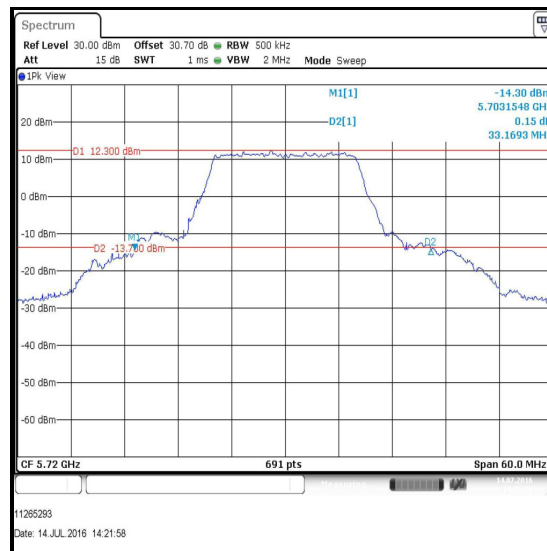


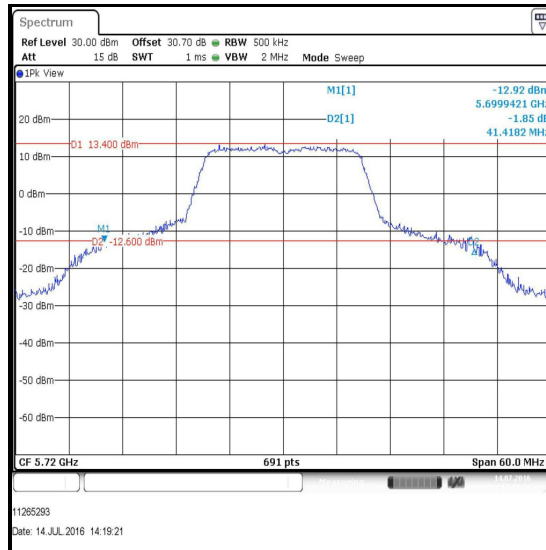
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11a / 20 MHz / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps	26 dB Emission Bandwidth (MHz)
Single	5720	BPSK	6	33.169

**Single Channel**

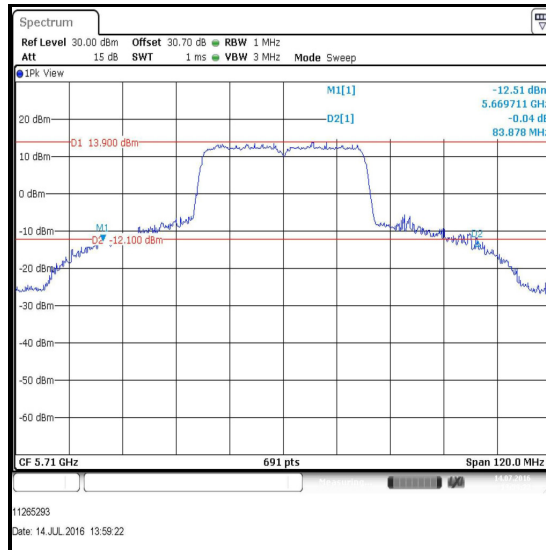
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 20 MHz / SISO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5720	BPSK	6.5 / 0	41.418

**Single Channel**

Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 40 MHz / SISO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz**

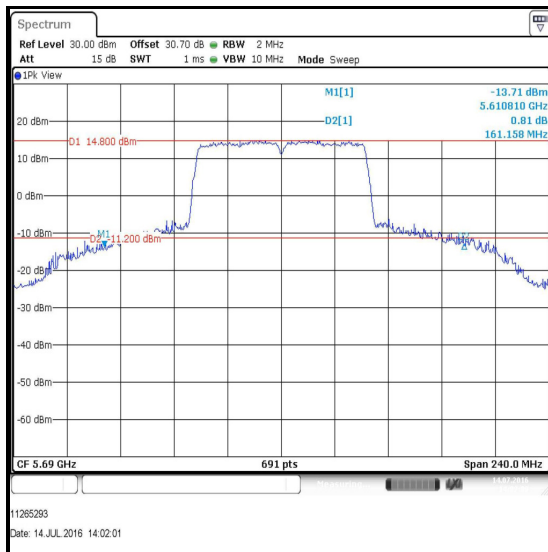
Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5710	BPSK	13.5 / 0	83.878

**Single Channel**

Transmitter 26 dB Emission Bandwidth (continued)

Results: 802.11ac / 80 MHz / SISO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz

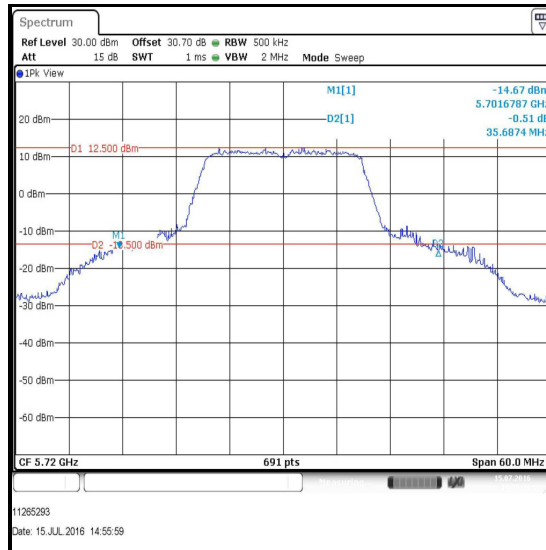
Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5690	BPSK	29.3 / 0	161.158



Single Channel

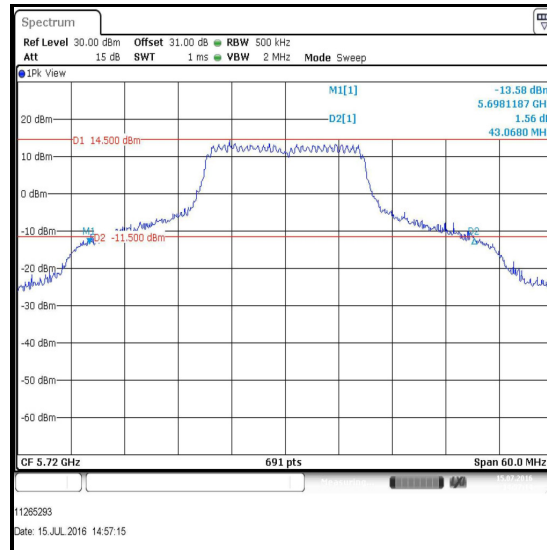
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 20 MHz / MIMO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz / Port 1**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5720	BPSK	6.5 / 0	35.687

**Single Channel**

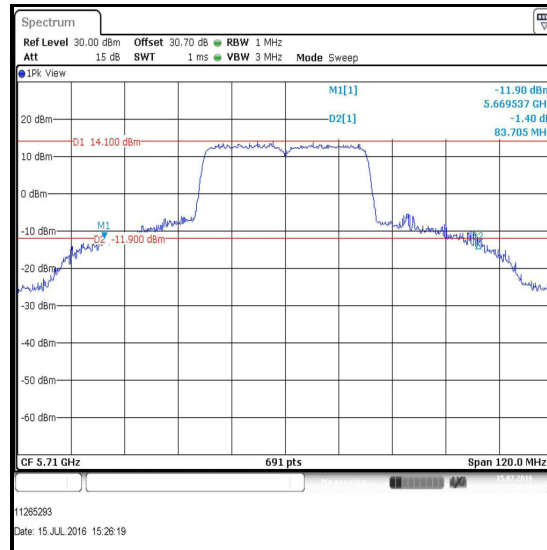
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 20 MHz / MIMO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz / Port 2**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5720	BPSK	6.5 / 0	43.068

**Single Channel**

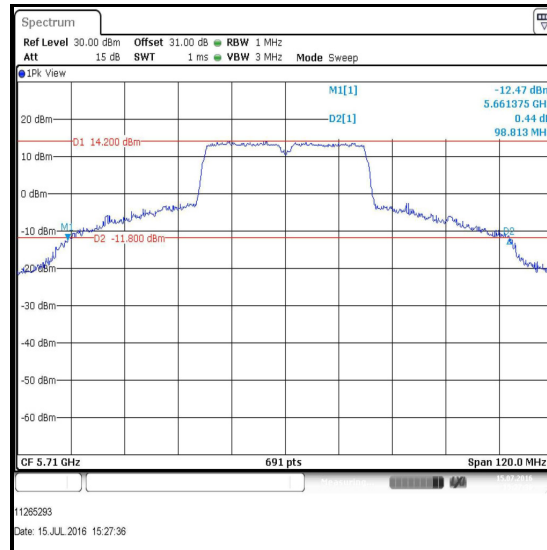
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 40 MHz / MIMO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz / Port 1**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5710	BPSK	13.5 / 0	83.705

**Single Channel**

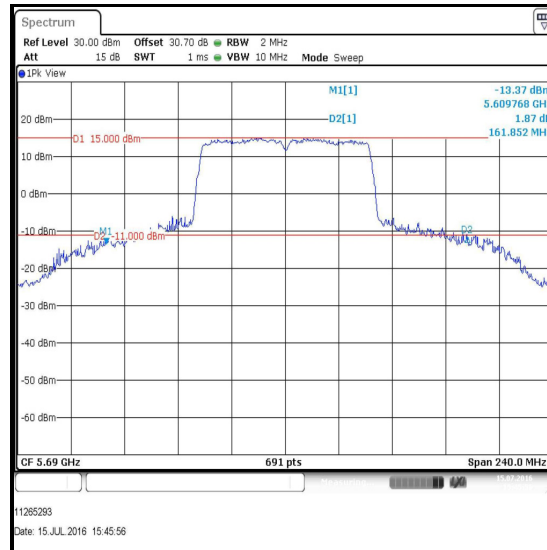
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 40 MHz / MIMO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz / Port 2**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5710	BPSK	13.5 / 0	98.813

**Single Channel**

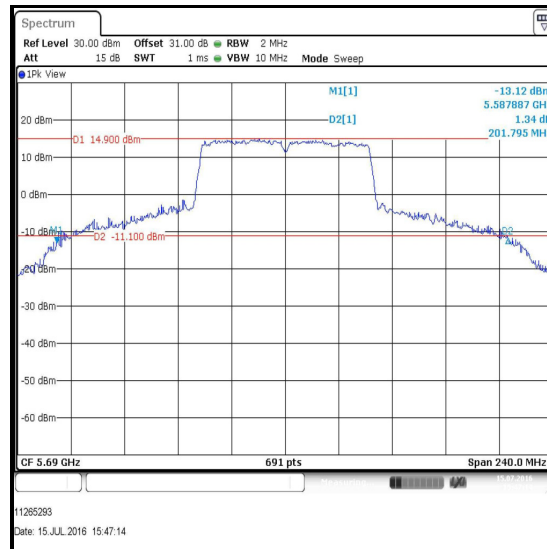
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11ac / 80 MHz / MIMO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz / Port 1**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5690	BPSK	29.3 / 0	161.852

**Single Channel**

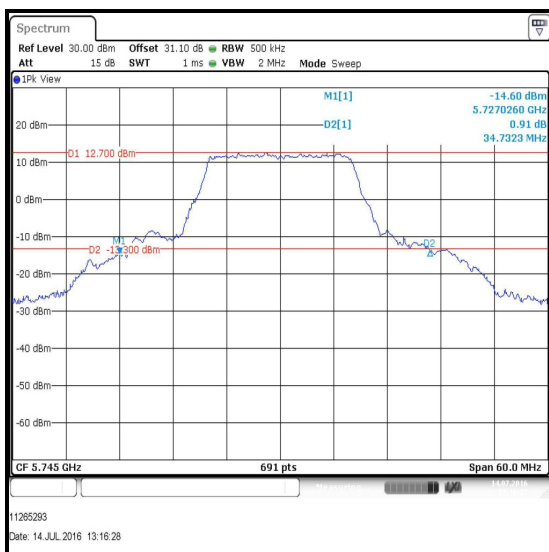
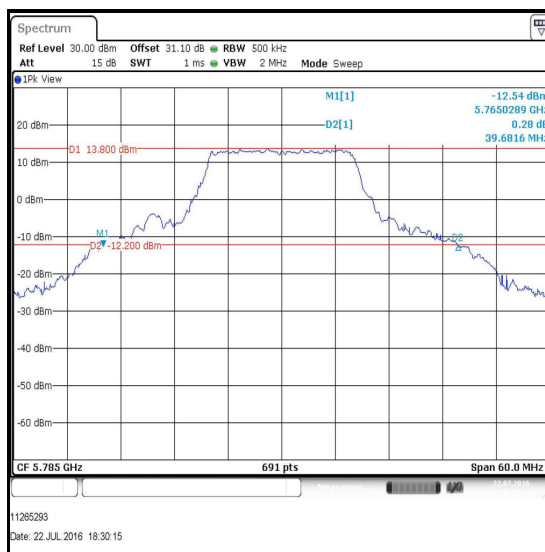
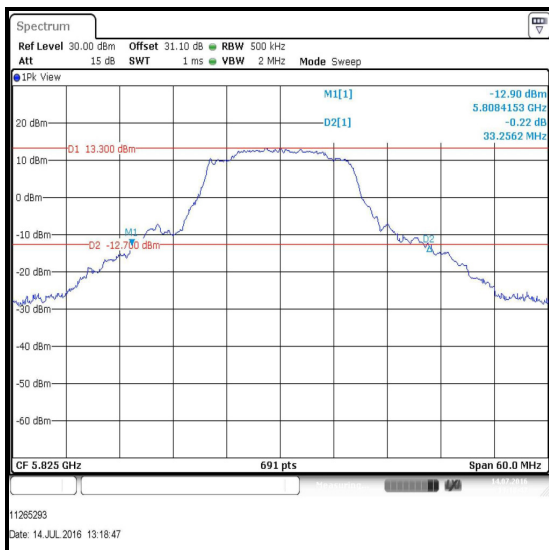
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11ac / 80 MHz / MIMO / Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz / Port 2**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5690	BPSK	29.3 / 0	201.795

**Single Channel**

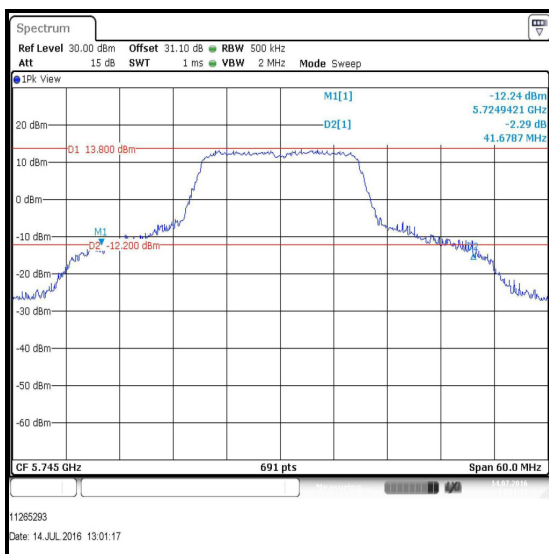
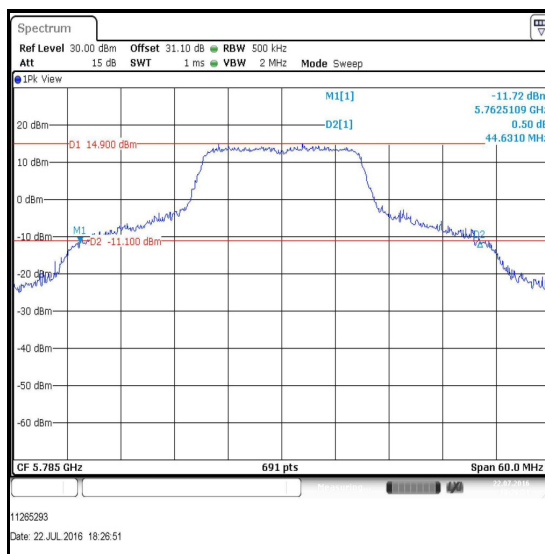
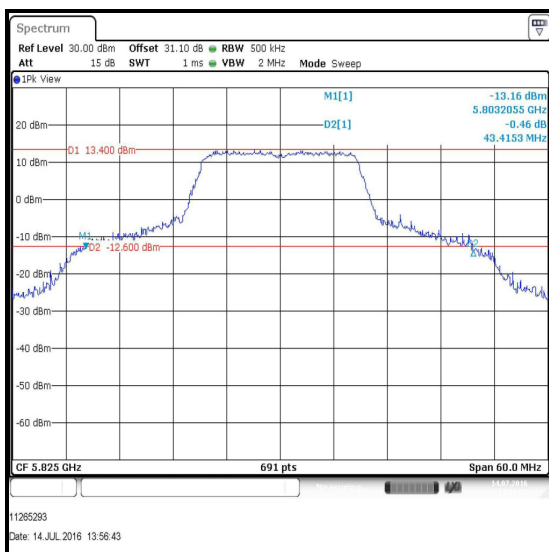
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11a / 20 MHz / 5.725-5.85 GHz band**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps	26 dB Emission Bandwidth (MHz)
Bottom	5745	BPSK	6	34.732
Middle	5785	BPSK	6	39.682
Top	5825	BPSK	6	33.256

**Bottom Channel****Middle Channel****Top Channel**

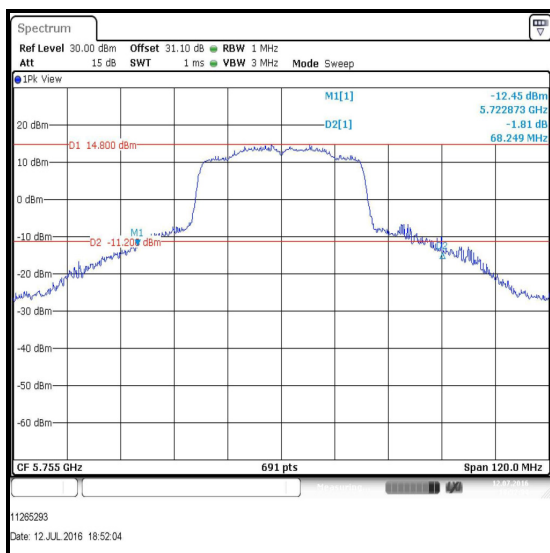
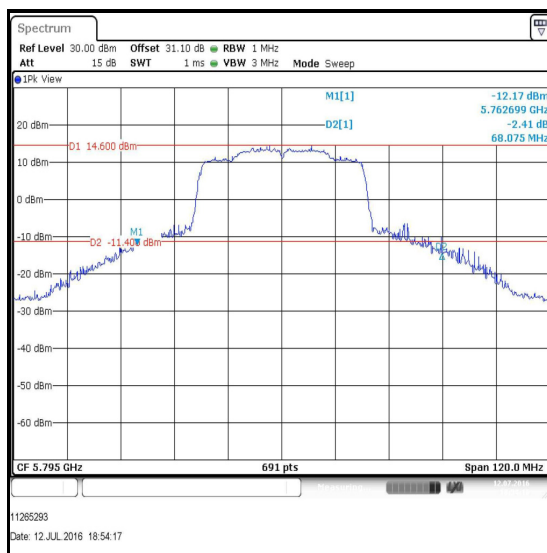
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 20 MHz / SISO / 5.725-5.85 GHz band**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Bottom	5745	BPSK	6.5 / 0	41.679
Middle	5785	BPSK	6.5 / 0	44.631
Top	5825	BPSK	6.5 / 0	43.415

**Bottom Channel****Middle Channel****Top Channel**

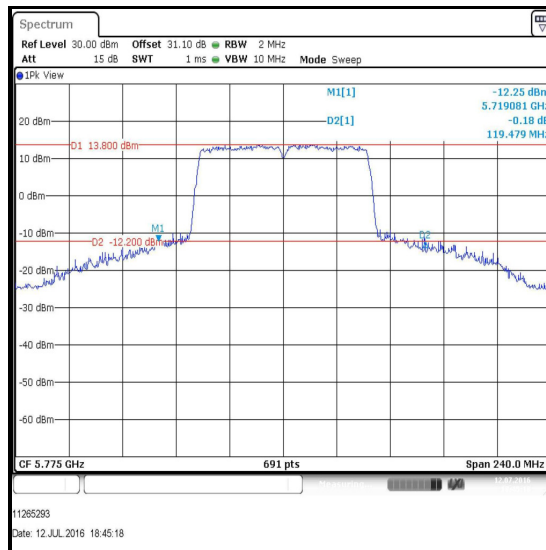
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 40 MHz / SISO / 5.725-5.85 GHz band**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Bottom	5755	BPSK	13.5 / 0	68.249
Top	5795	BPSK	13.5 / 0	68.075

**Bottom Channel****Top Channel**

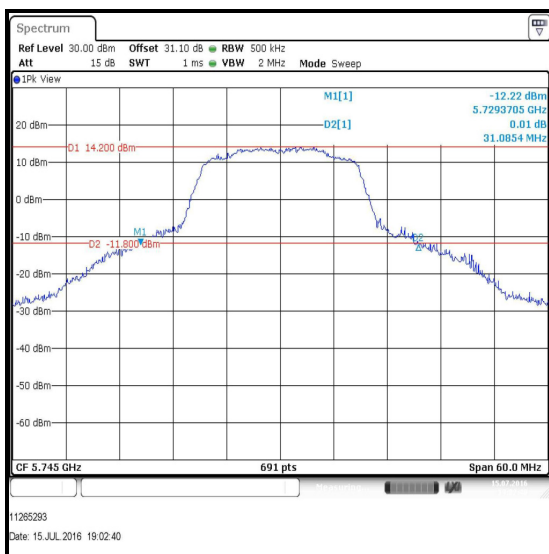
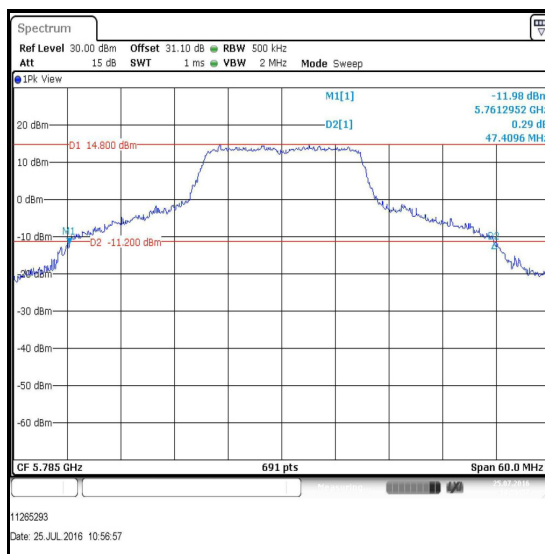
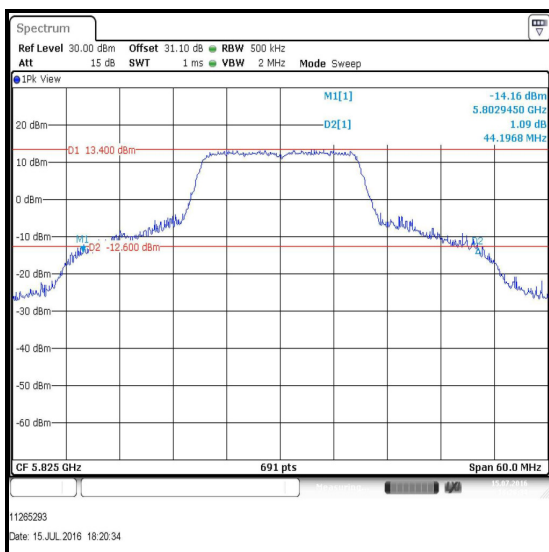
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11ac / 80 MHz / SISO / 5.725-5.85 GHz band**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5775	BPSK	29.3 / 0	119.479

**Single Channel**

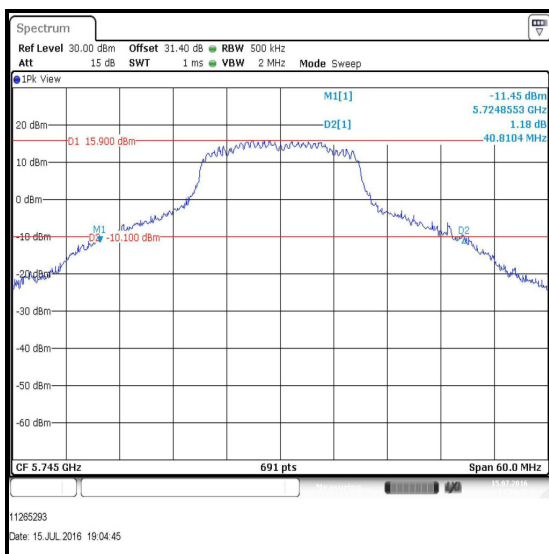
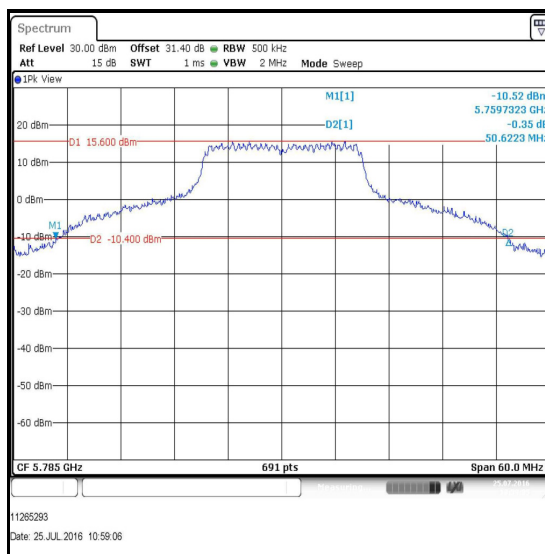
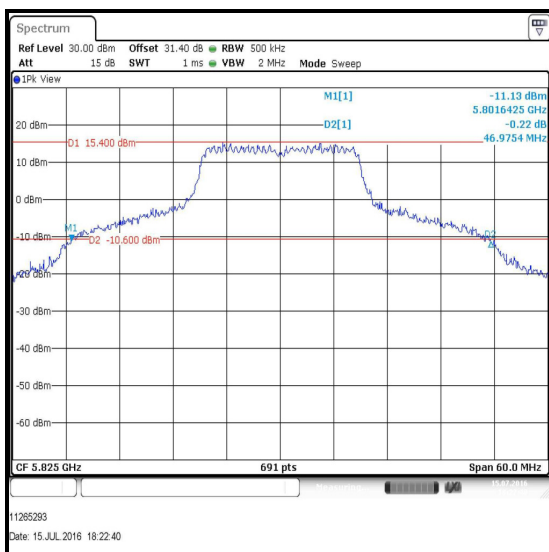
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 20 MHz / MIMO / 5.725-5.85 GHz band / Port 1**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Bottom	5745	BPSK	6.5 / 0	31.085
Middle	5785	BPSK	6.5 / 0	47.410
Top	5825	BPSK	6.5 / 0	44.197

**Bottom Channel****Middle Channel****Top Channel**

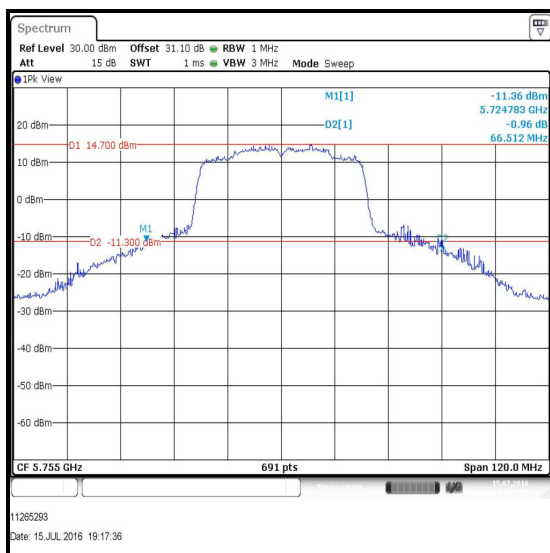
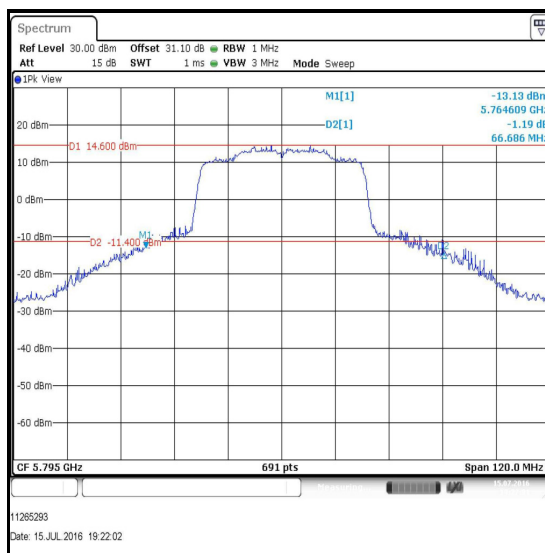
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 20 MHz / MIMO / 5.725-5.85 GHz band / Port 2**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Bottom	5745	BPSK	6.5 / 0	40.810
Middle	5785	BPSK	6.5 / 0	50.622
Top	5825	BPSK	6.5 / 0	46.975

**Bottom Channel****Middle Channel****Top Channel**

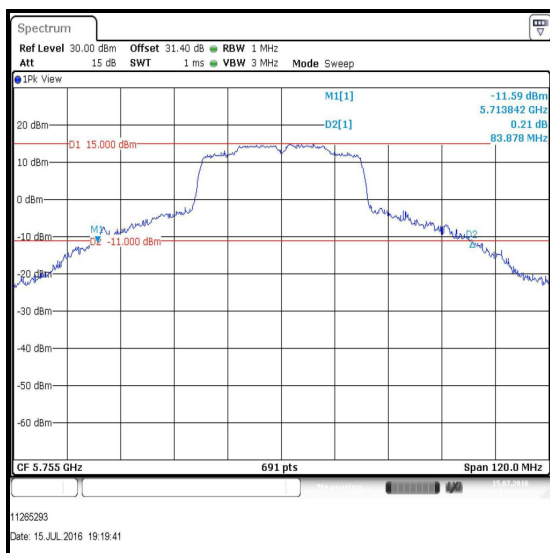
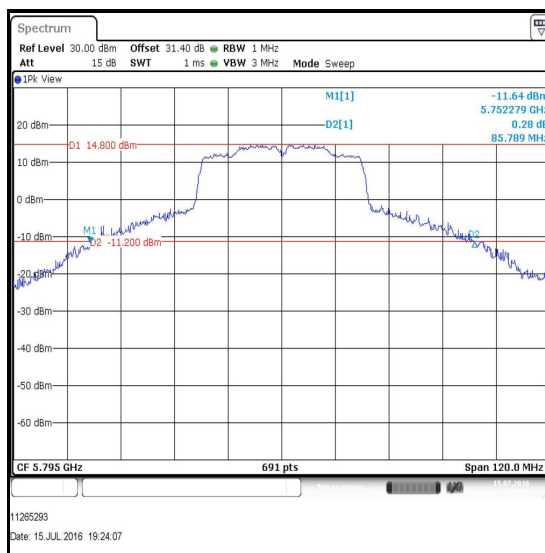
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 40 MHz / MIMO / 5.725-5.85 GHz band / Port 1**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Bottom	5755	BPSK	13.5 / 0	66.512
Top	5795	BPSK	13.5 / 0	66.686

**Bottom Channel****Top Channel**

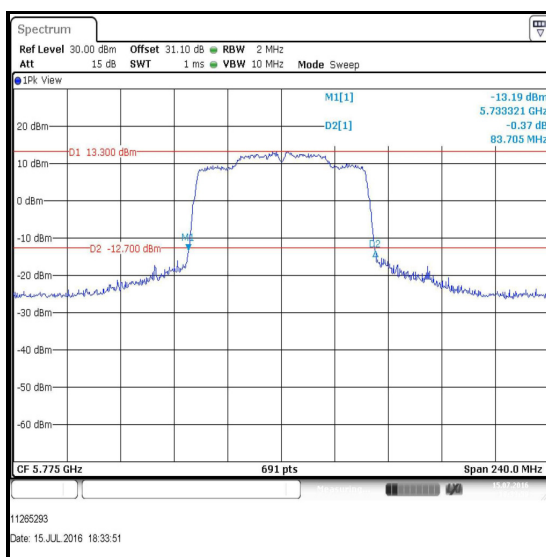
Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11n / 40 MHz / MIMO / 5.725-5.85 GHz band / Port 2**

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Bottom	5755	BPSK	13.5 / 0	83.878
Top	5795	BPSK	13.5 / 0	85.789

**Bottom Channel****Top Channel**

Transmitter 26 dB Emission Bandwidth (continued)**Results: 802.11ac / 80 MHz / MIMO / 5.725-5.85 GHz band / Port 1**

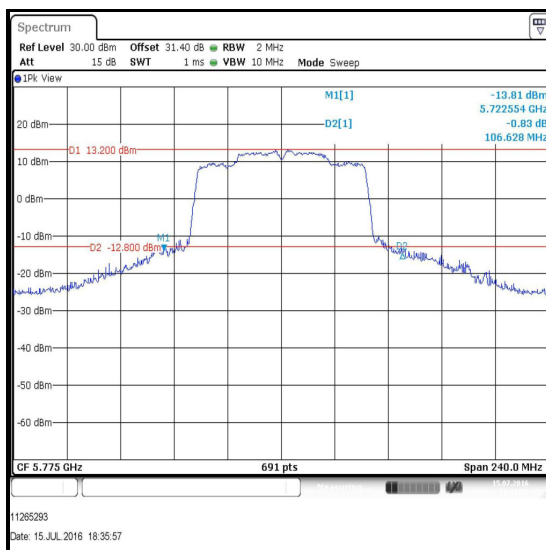
Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5775	BPSK	29.3 / 0x1	83.705



Single Channel

Results: 802.11ac / 80 MHz / MIMO / 5.725-5.85 GHz band / Port 2

Channel	Frequency (MHz)	Modulation scheme	Data Rate Mbps / MCS	26 dB Emission Bandwidth (MHz)
Single	5775	BPSK	29.3 / 0x1	106.628



Single Channel

Transmitter 26 dB Emission Bandwidth (continued)**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1659	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	02 Apr 2017	12
M1835	Signal Analyser	Rohde & Schwarz	FSV30	103050	27 Feb 2017	12
M1867	Attenuator	Huber + Suhner AG	6820.17.B	07101	Calibrated before use	-
A2847	Attenuator	Radiall	R411.820.121	24671450	Calibrated before use	-
A2345	Attenuator	Macom	2082-6043-20	None stated	Calibrated before use	-
A2952	RF Switch	Pickering Interfaces	64-102-002 & 40-881-001	XZ361012 & X361507	Calibrated before use	-
M1252	Signal Generator	Hewlett Packard	83640A	3119A00489	26 Oct 2017	24

5.2.2. Transmitter Minimum 6 dB Bandwidth**Test Summary:**

Test Engineer:	Georgios Vrezas	Test Dates:	12 July 2016 to 25 July 2016
Test Sample Serial Number:	C39RW006HFML		

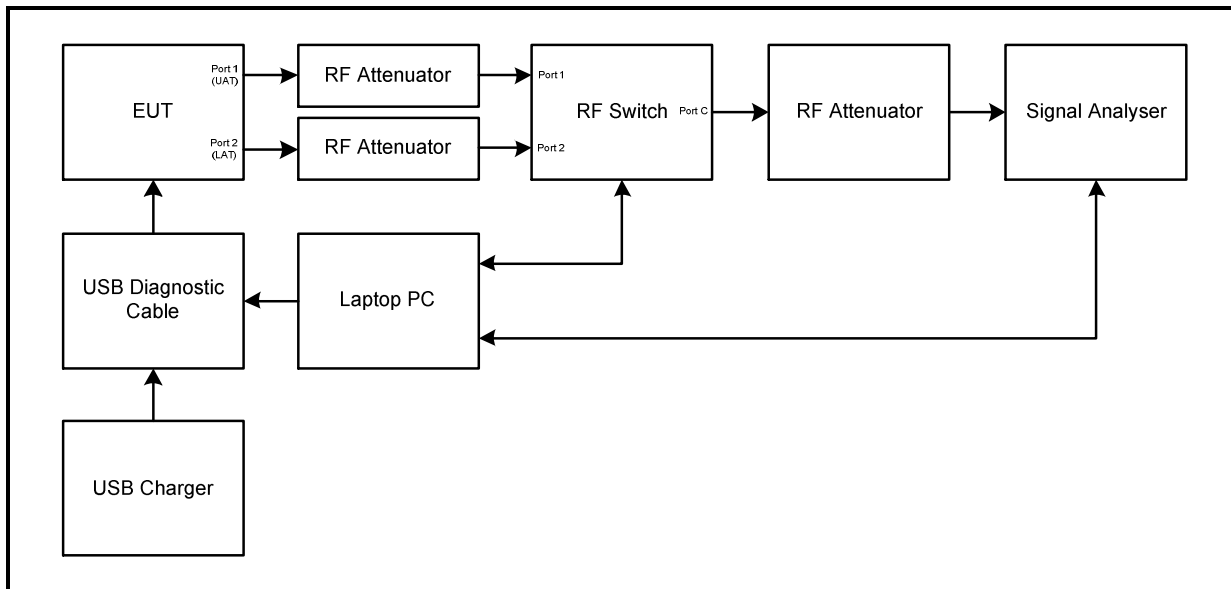
FCC Reference:	Part 15.407(e)
Test Method Used:	KDB 789033 D02 Section II.C.2.

Environmental Conditions:

Temperature (°C):	24 to 25
Relative Humidity (%):	40 to 43

Note(s):

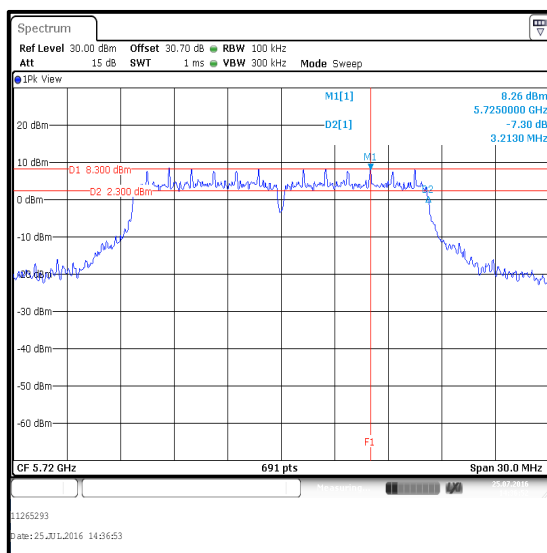
1. The customer declared the following data rates to be used for all measurements as:
 - 802.11a – BPSK / 6 Mbps / Port 1
 - 802.11n HT20 SISO – BPSK / 6.5 Mbps / MCS0 / Port 1
 - 802.11n HT40 SISO – BPSK / 13.5 Mbps / MCS0 / Port 1
 - 802.11ac VHT80 SISO – BPSK / 29.3 Mbps / MCS0 / Port 1
 - 802.11n HT20 MIMO – BPSK / 6.5 Mbps / MCS0
 - 802.11n HT40 MIMO – BPSK / 13.5 Mbps / MCS0
 - 802.11ac VHT80 MIMO – BPSK / 29.3 Mbps / MCS0x1
2. Final measurements were performed using the above configurations on the relevant channels.
3. For channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz, measurements were made on the portion of the emission bandwidth that is contained within the U-NII-3 band.
4. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cables. An RF level offset was entered on the signal analyser to compensate for the loss of the switch, attenuators and RF cables.

Transmitter Minimum 6 dB Bandwidth (continued)**Test setup:**

Transmitter Minimum 6 dB Bandwidth (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)

Results: 802.11a / 20 MHz / BPSK / 6 Mbps

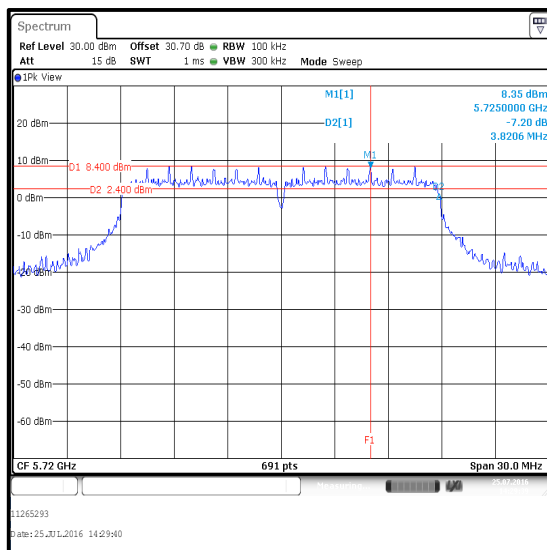
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3213	≥500	2713	Complied



Single Channel

Results: 802.11n / 20 MHz / SISO / BPSK / MCS0

Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3821	≥500	3321	Complied

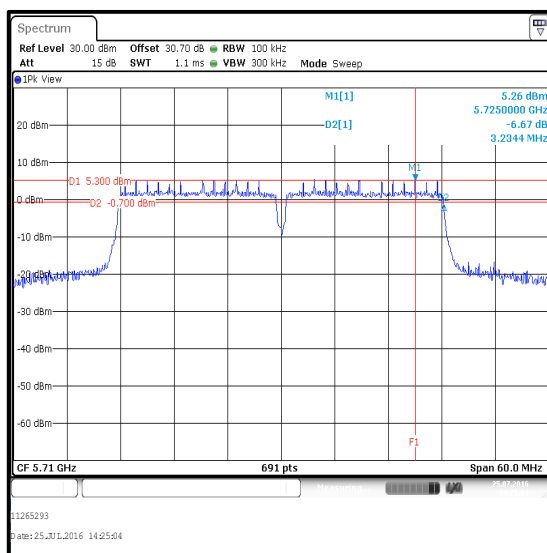


Single Channel

Transmitter Minimum 6 dB Bandwidth (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)

Results: 802.11n / 40 MHz / SISO / BPSK / MCS0

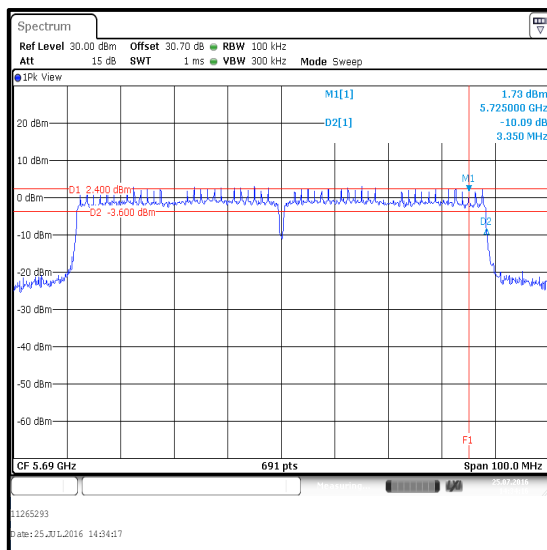
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3234	≥500	2734	Complied



Single Channel

Results: 802.11n / 80 MHz / SISO / BPSK / MCS0

Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3350	≥500	2850	Complied

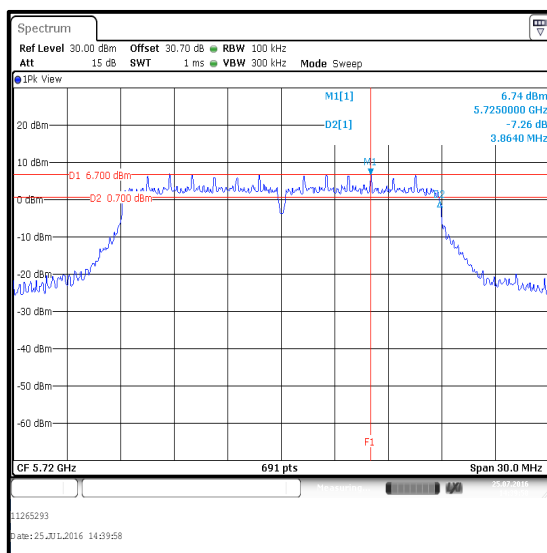


Single Channel

Transmitter Minimum 6 dB Bandwidth (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)

Results: 802.11n / 20 MHz / MIMO / BPSK / MCS0 / Port 1

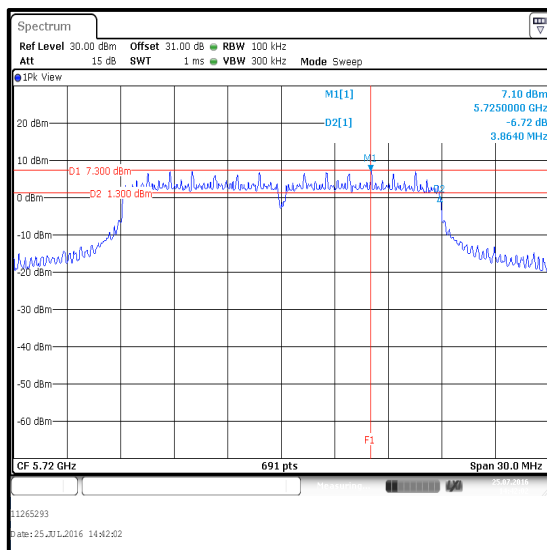
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3864	≥500	3564	Complied



Single Channel

Results: 802.11n / 20 MHz / MIMO / BPSK / MCS0 / Port 2

Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3864	≥500	3564	Complied

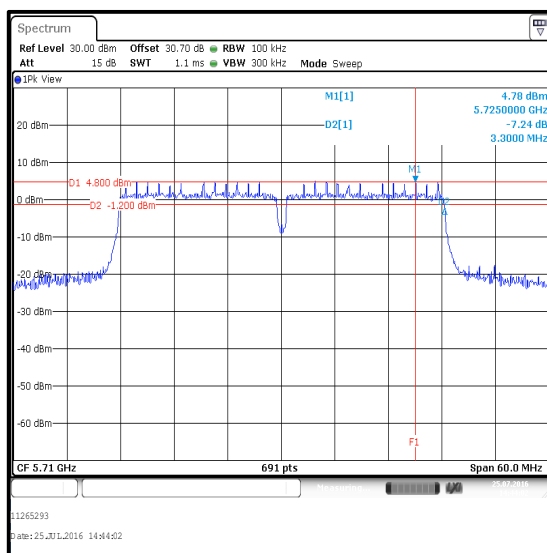


Single Channel

Transmitter Minimum 6 dB Bandwidth (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)

Results: 802.11n / 40 MHz / MIMO / BPSK / MCS0 / Port 1

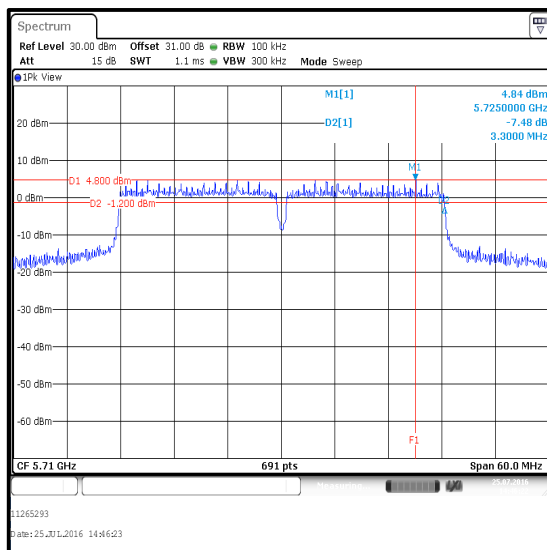
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3300	≥500	2800	Complied



Single Channel

Results: 802.11n / 40 MHz / MIMO / BPSK / MCS0 / Port 2

Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3300	≥500	2800	Complied

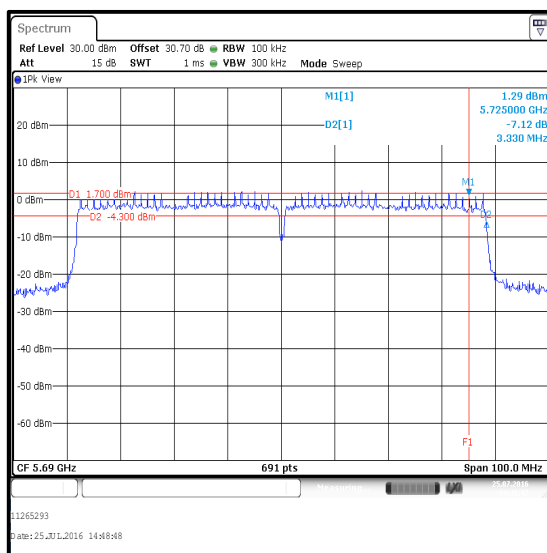


Single Channel

Transmitter Minimum 6 dB Bandwidth (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)

Results: 802.11ac / 80 MHz / MIMO / BPSK / MCS0x1 / Port 1

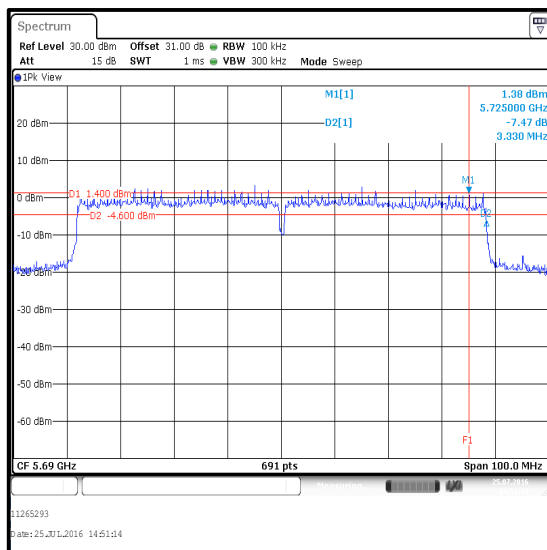
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3330	≥500	2830	Complied



Single Channel

Results: 802.11ac / 80 MHz / MIMO / BPSK / MCS0x1 / Port 2

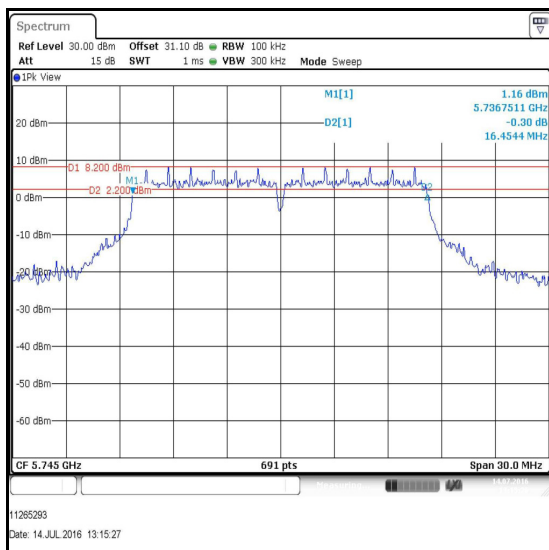
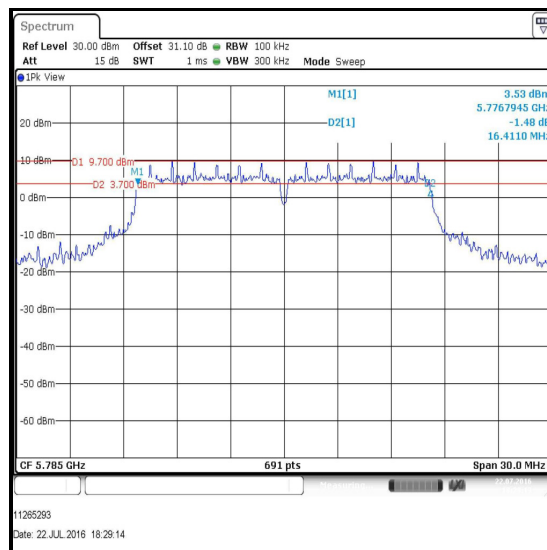
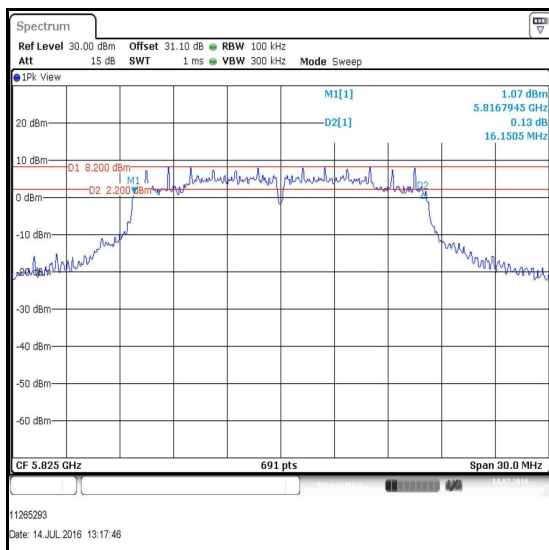
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Single	3330	≥500	2830	Complied



Single Channel

Transmitter Minimum 6 dB Bandwidth (5.725-5.85 GHz band) (continued)**Results: 802.11a / 20 MHz / BPSK / 6 Mbps**

Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	16454	≥500	15954	Complied
Middle	16411	≥500	15911	Complied
Top	16151	≥500	15651	Complied

**Bottom Channel****Middle Channel****Top Channel**