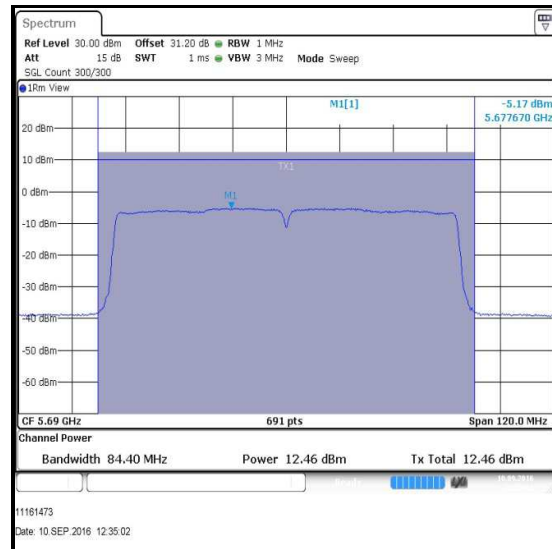
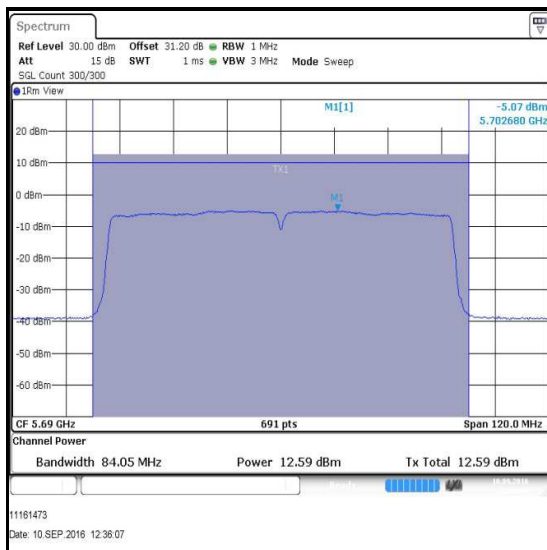
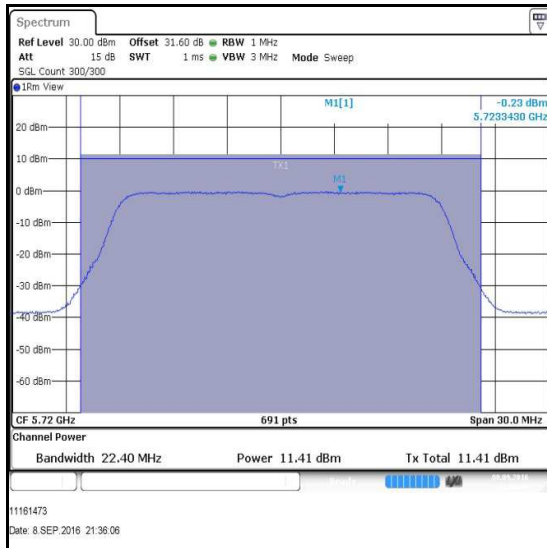


Transmitter Maximum Conducted Output Power (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1****Single Channel / Port 1****Single Channel / Port 2****Single Channel / Port 3**

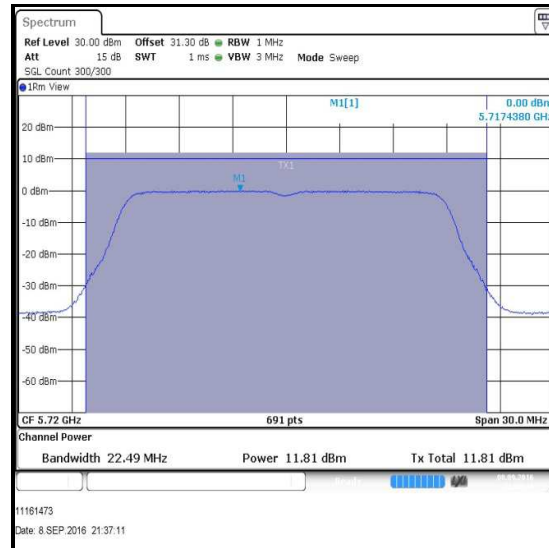
Transmitter Maximum Conducted Output Power (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)

Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3

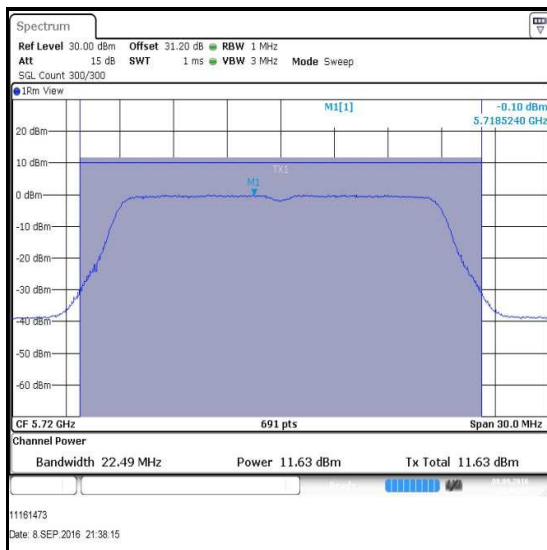
Channel	Frequency (MHz)	Conducted Power Port 1 (dBm)	Conducted Power Port 2 (dBm)	Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5720	11.4	11.8	11.6	16.4	23.1	6.7	Complied



Single Channel / Port 1



Single Channel / Port 2



Single Channel / Port 3

Transmitter Maximum Conducted Output Power (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)

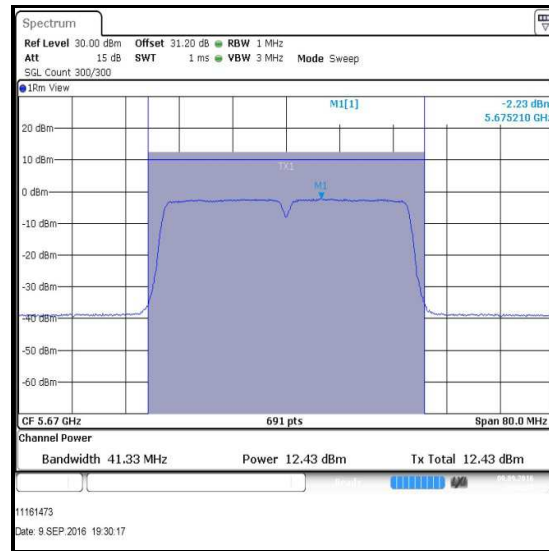
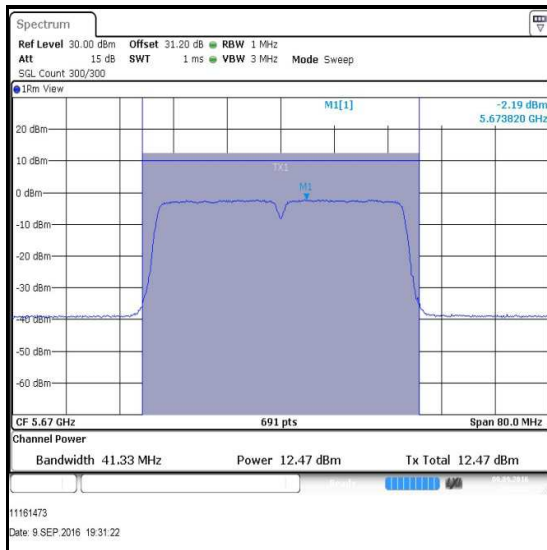
Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5710	12.0	0.1	12.1

Channel	Frequency (MHz)	Port 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5710	12.4	0.1	12.5

Channel	Frequency (MHz)	Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5710	12.5	0.1	12.6

Channel	Frequency (MHz)	Corrected Conducted Power Port 1 (dBm)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5710	12.1	12.5	12.6	17.2	24.0	6.8	Complied

Transmitter Maximum Conducted Output Power (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0****Single Channel / Port 1****Single Channel / Port 2****Single Channel / Port 3**

Transmitter Maximum Conducted Output Power (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)

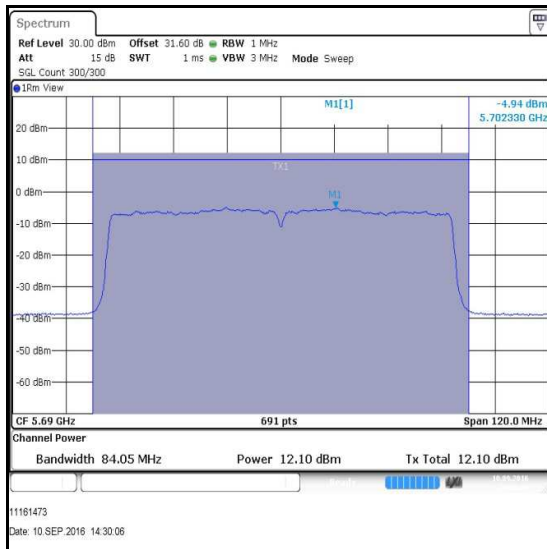
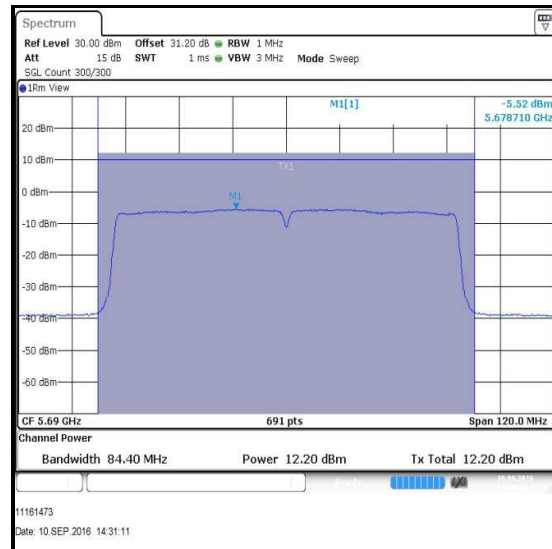
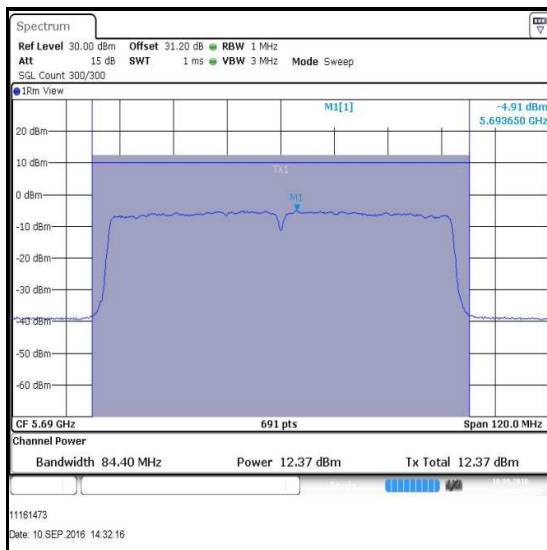
Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5690	12.1	0.1	12.2

Channel	Frequency (MHz)	Port 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5690	12.2	0.1	12.3

Channel	Frequency (MHz)	Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5690	12.4	0.1	12.5

Channel	Frequency (MHz)	Corrected Conducted Power Port 1 (dBm)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5690	12.2	12.3	12.5	17.1	24.0	6.9	Complied

Transmitter Maximum Conducted Output Power (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1****Single Channel / Port 1****Single Channel / Port 2****Single Channel / Port 3**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band)**Test Summary:**

Test Engineer:	Andrew Edwards	Test Dates:	06 September 2016 to 15 September 2016
Test Sample Serial Number:	C02S2007HH5Y		

FCC Reference:	Part 15.407(a)(3)
Test Method Used:	KDB 789033 D02 Section II.E.2.b) and II.E.2.d)

Environmental Conditions:

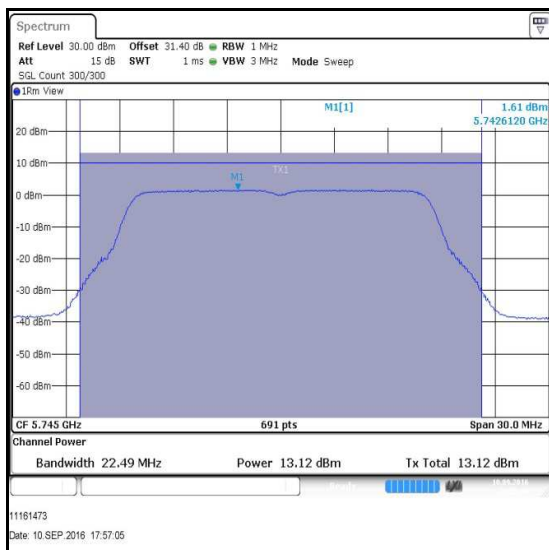
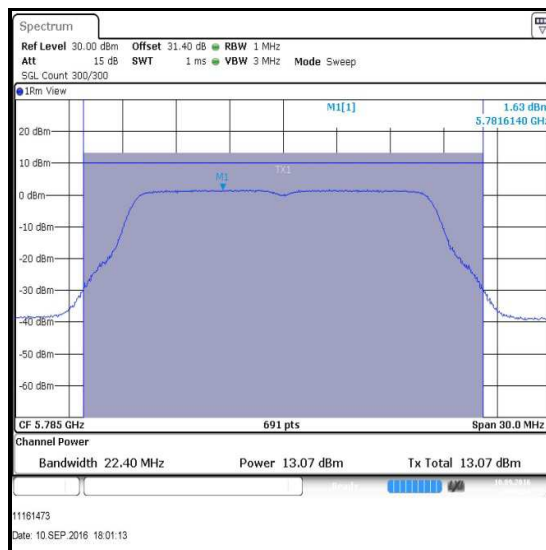
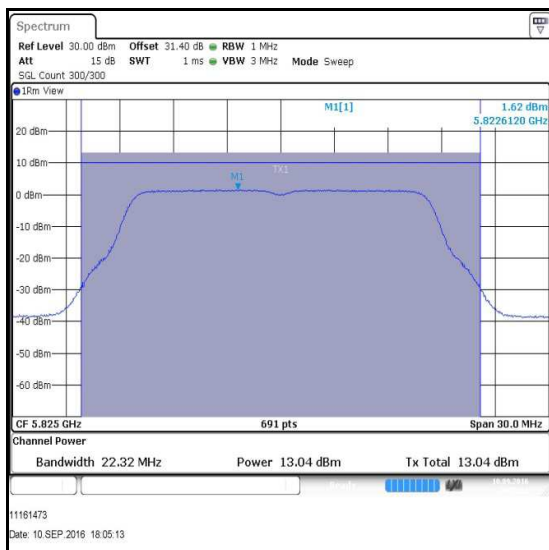
Temperature (°C):	23 to 28
Relative Humidity (%):	45 to 58

Note(s):

1. The FCC Part 15.407(a)(3) limit shall not exceed 1 W (30.0 dBm).
2. For data rates where the EUT was transmitting at <98% duty cycle, the calculated duty cycle in section 5.2.3 was added to the measured power in order to compute the average power during the actual transmission time.
3. For MIMO modes of operation, conducted power was measured on both ports and then combined using the measure-and-sum method stated in FCC KDB 662911.
4. For all SISO and MIMO STBC modes of operation, the antenna gain is < 6 dBi.
5. For 2Tx CDD modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 7.9 dBi. In accordance with Part 15.407(a)(3), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 30 dBm has been reduced by 1.9 dB to 28.1 dBm.
6. For 3Tx CDD modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 9.5 dBi. In accordance with Part 15.407(a)(3), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 30 dBm has been reduced by 3.5 dB to 26.5 dBm.
7. For details on antenna gains refer to section 3.6 of this test report.

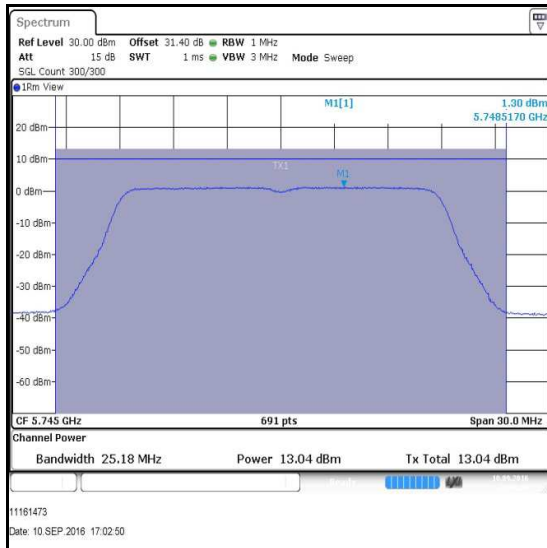
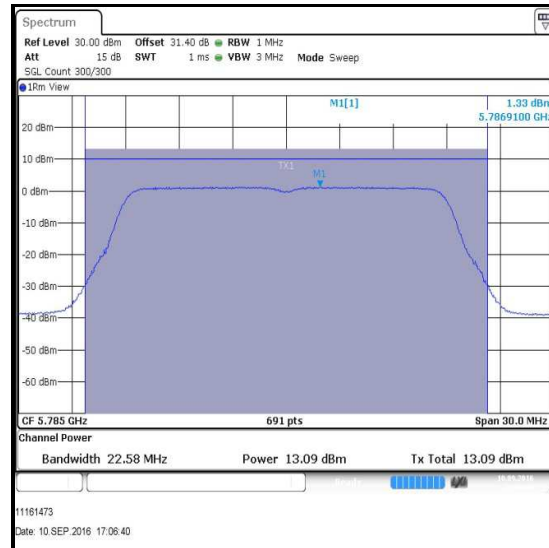
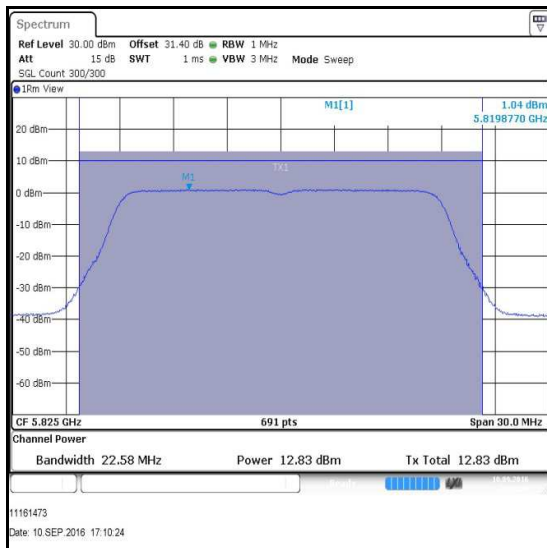
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11a SISO / BPSK / 6 Mbps / Port 2**

Channel	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	13.1	30.0	16.9	Complied
Middle	5785	13.1	30.0	16.9	Complied
Top	5825	13.0	30.0	17.0	Complied

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

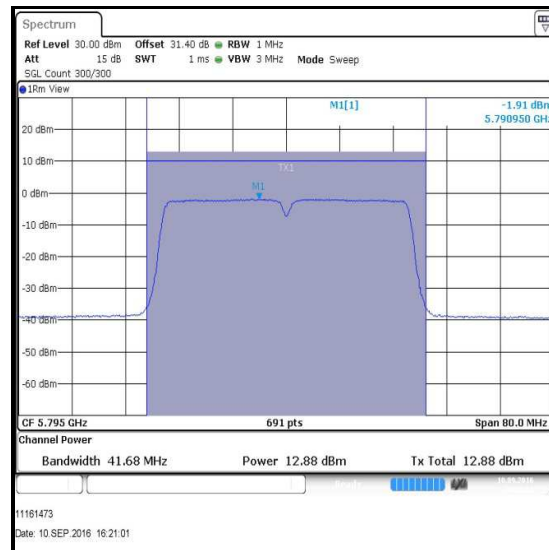
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / SISO / MCS0 / Port 2**

Channel	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	13.0	30.0	17.0	Complied
Middle	5785	13.1	30.0	16.9	Complied
Top	5825	12.8	30.0	17.2	Complied

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

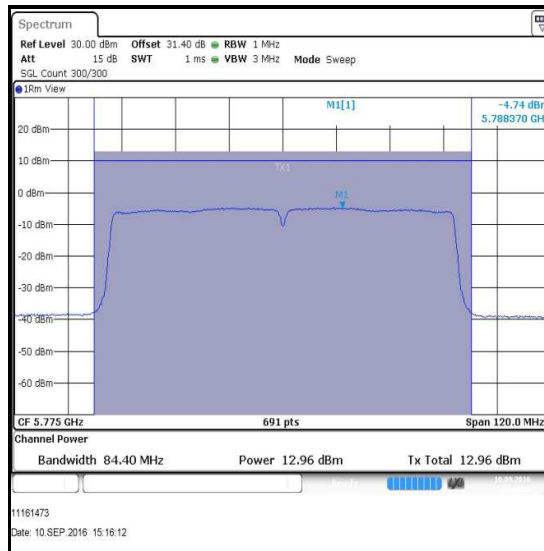
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / SISO / MCS0 / Port 2**

Channel	Frequency (MHz)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	12.9	0.1	13.0	30.0	17.0	Complied
Top	5795	12.9	0.1	13.0	30.0	17.0	Complied

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

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11ac / VHT80 / SISO / MCS0 / Port 2**

Channel	Frequency (MHz)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	13.0	0.1	13.1	30.0	16.9	Complied

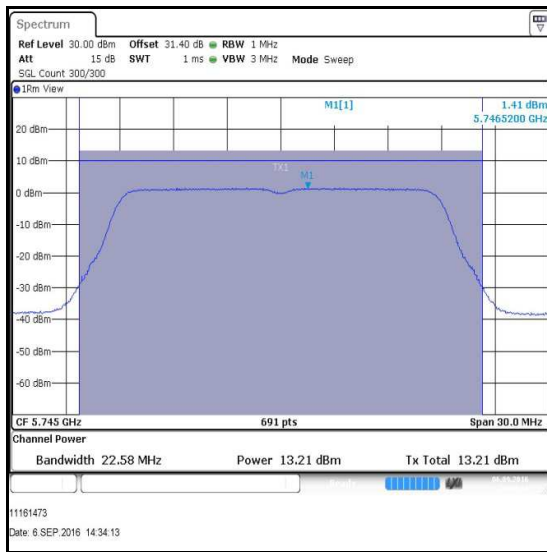
**Single Channel**

Transmitter Maximum Conducted Output Power (5.25-5.35 GHz & 5.47-5.725 GHz bands)

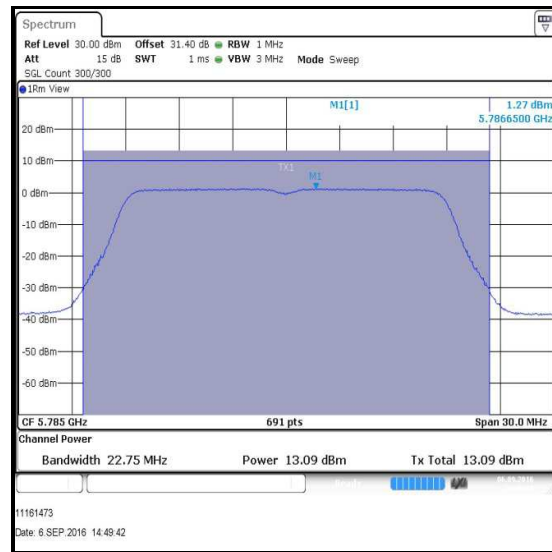
Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 2, 3

Channel	Frequency (MHz)	Conducted Power Port 2 (dBm)	Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	13.2	13.2	16.2	28.1	11.9	Complied
Middle	5785	13.1	13.1	16.1	28.1	12.0	Complied
Top	5825	13.2	13.3	16.3	28.1	11.8	Complied

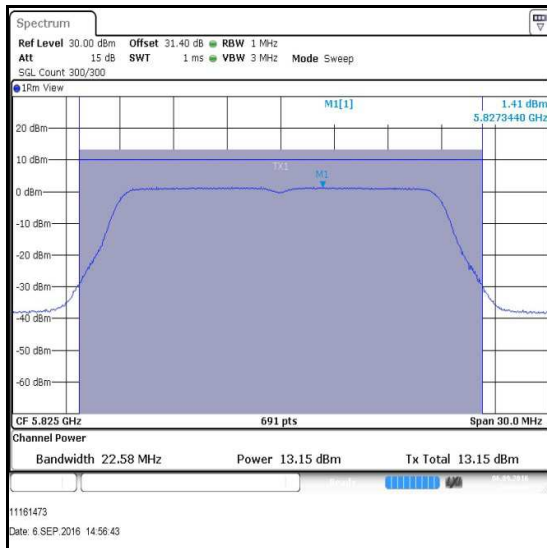
Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Port 2



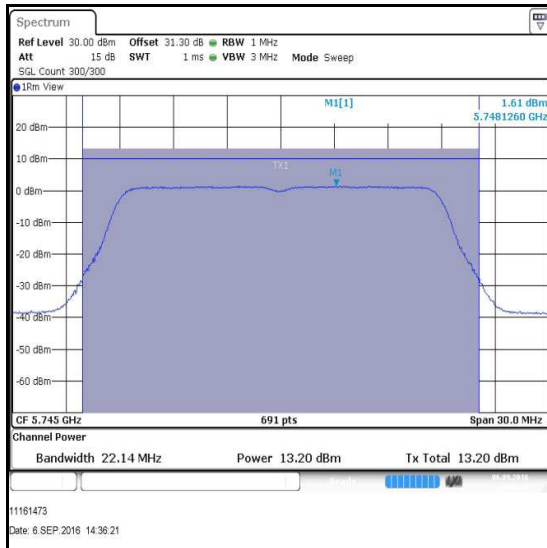
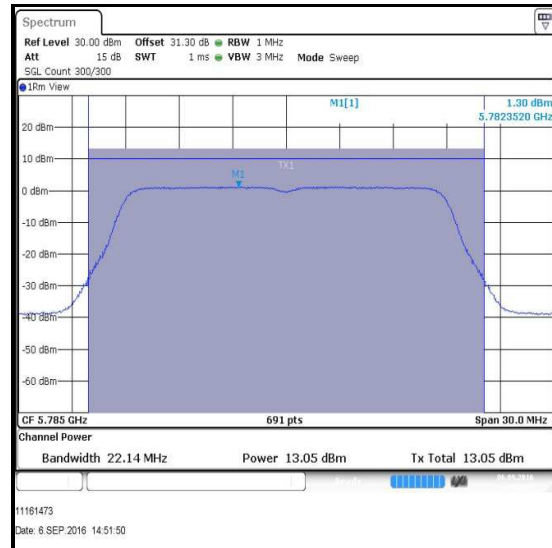
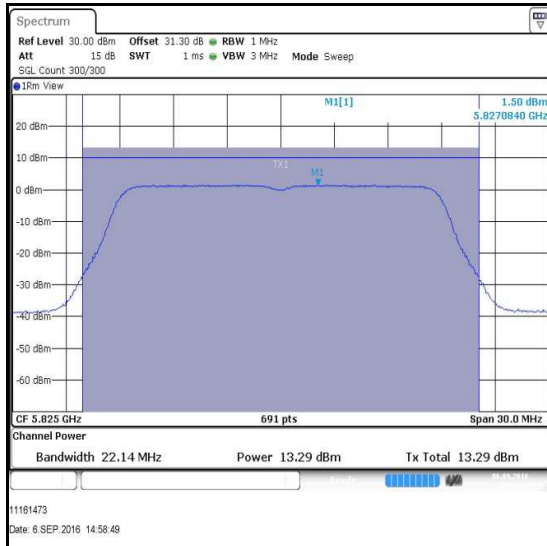
Bottom Channel



Middle Channel



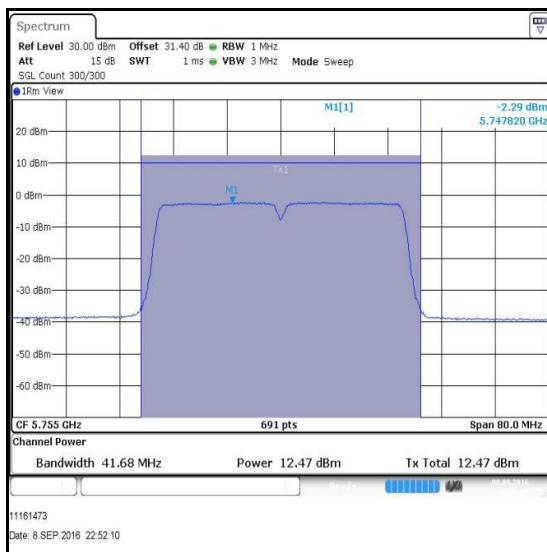
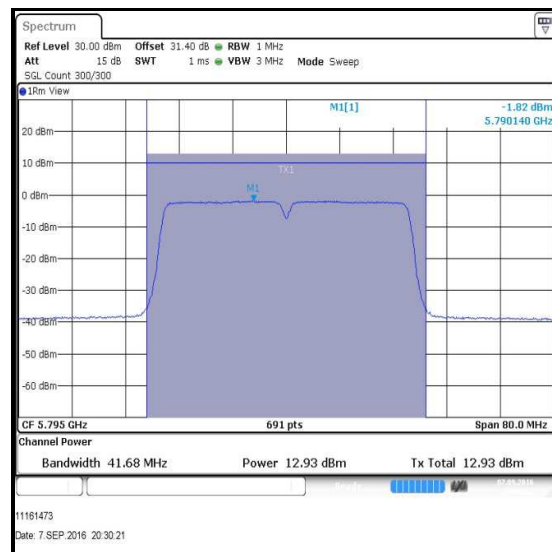
Top Channel

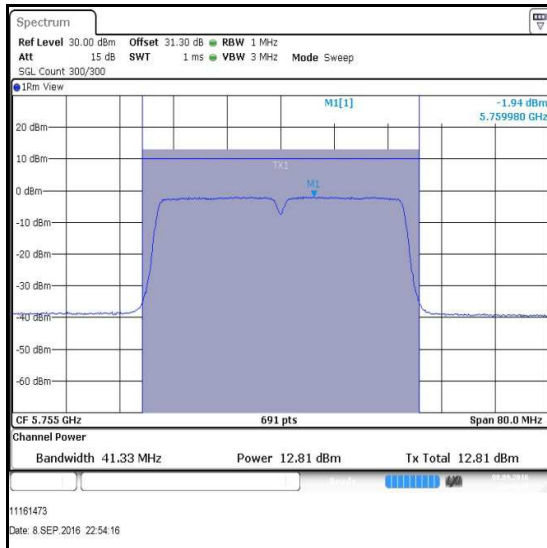
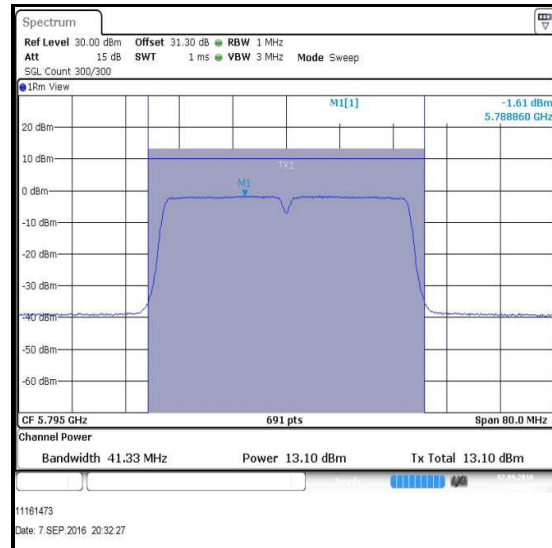
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Port 3****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 2, 3**

Channel	Frequency (MHz)	Port 2			Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	12.5	0.1	12.6	12.8	0.1	12.9
Top	5795	12.9	0.1	13.0	13.1	0.1	13.2

Channel	Frequency (MHz)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	12.6	12.9	15.8	28.1	12.3	Complied
Top	5795	13.0	13.2	16.1	28.1	12.0	Complied

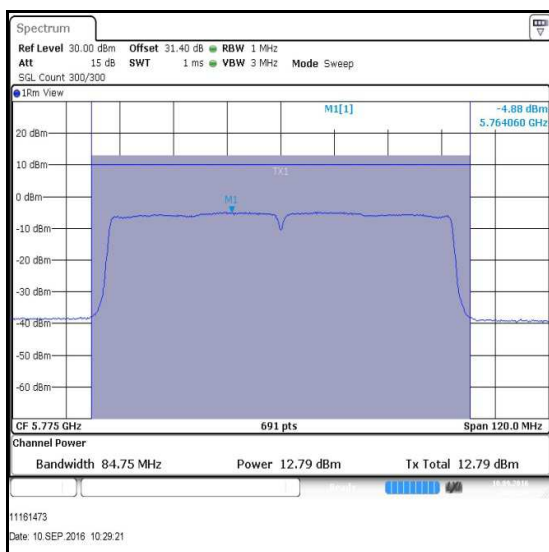
Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Port 2**Bottom Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Port 3****Bottom Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11ac / VHT80 / MIMO / 2Tx CDD / MCS0x1 / Ports 2, 3 band**

Channel	Frequency (MHz)	Port 2			Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	12.8	0.1	12.9	13.0	0.1	13.1

Channel	Frequency (MHz)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	12.9	13.1	16.0	28.1	12.1	Complied



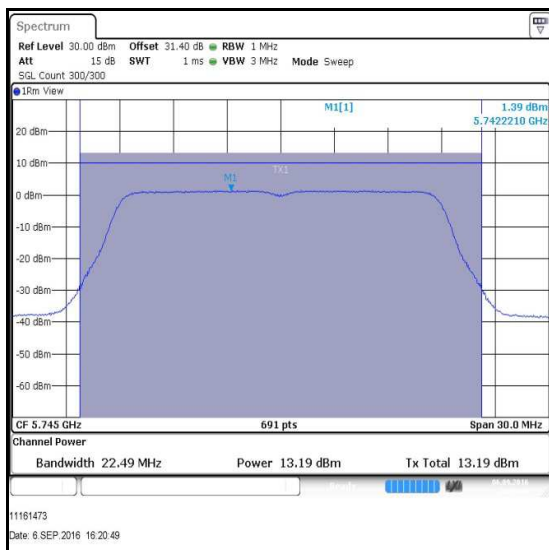
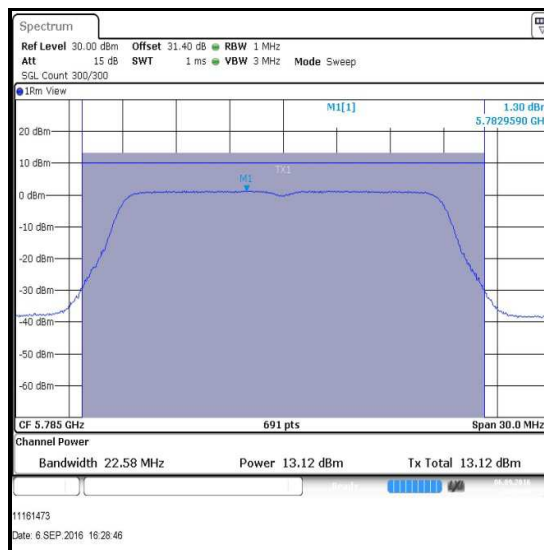
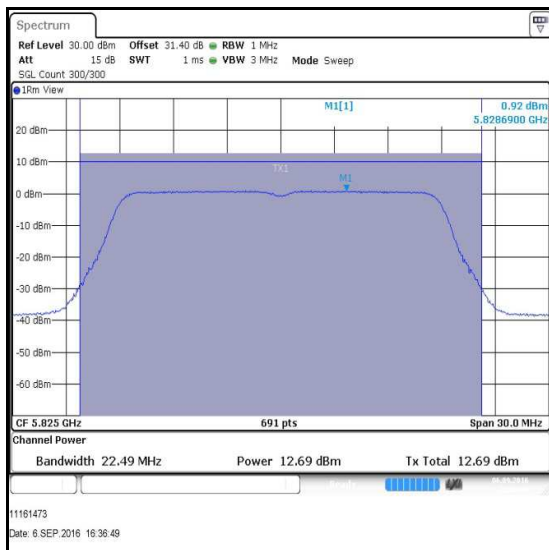
Single Channel / Port 2



Single Channel / Port 3

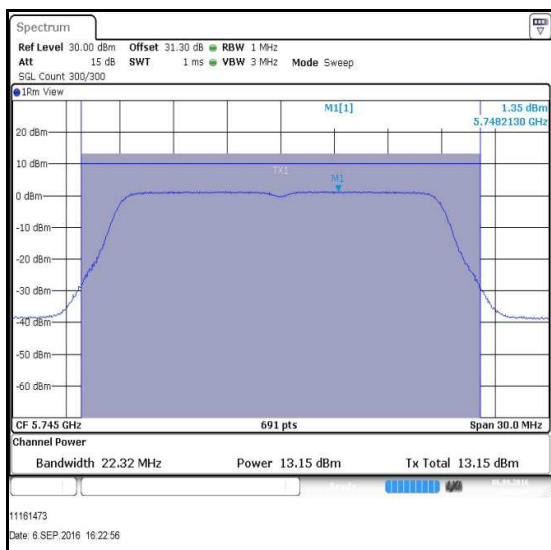
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Ports 2, 3**

Channel	Frequency (MHz)	Conducted Power Port 2 (dBm)	Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	13.2	13.2	16.2	30.0	13.8	Complied
Middle	5785	13.1	13.2	16.2	30.0	13.8	Complied
Top	5825	12.7	13.1	15.9	30.0	14.1	Complied

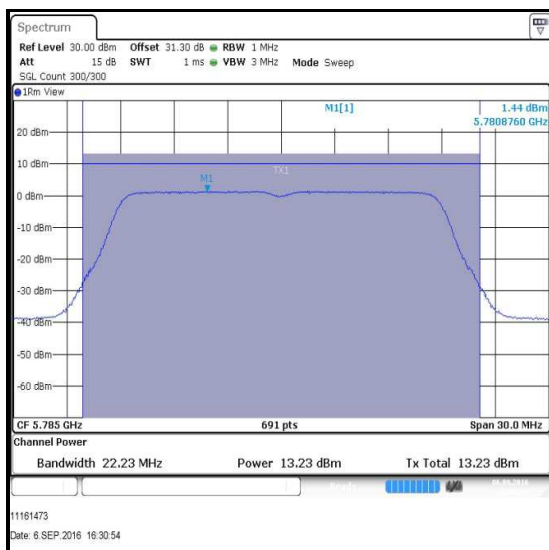
Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Port 2**Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)

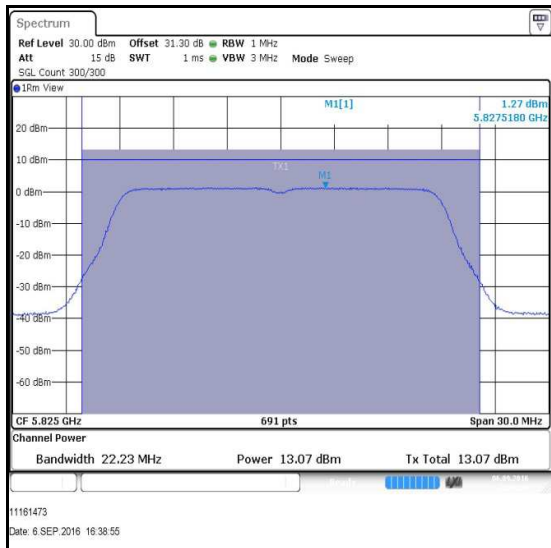
Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Port 3



Bottom Channel



Middle Channel

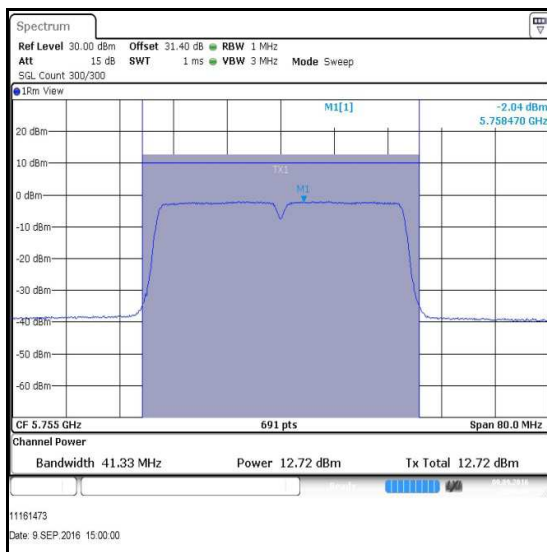
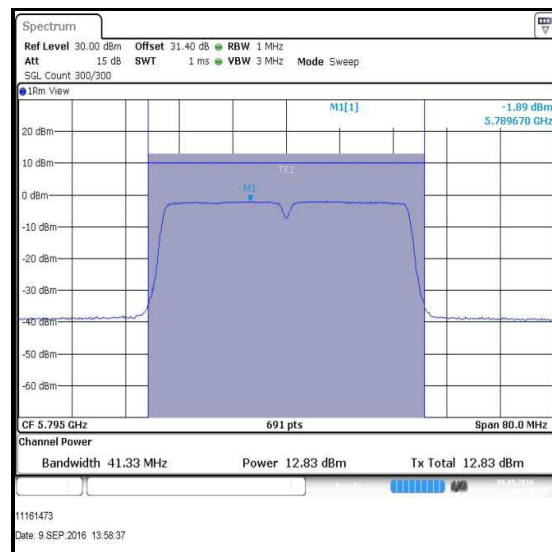


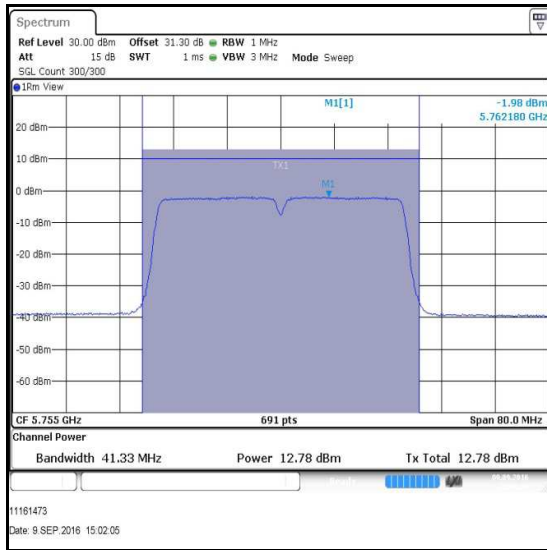
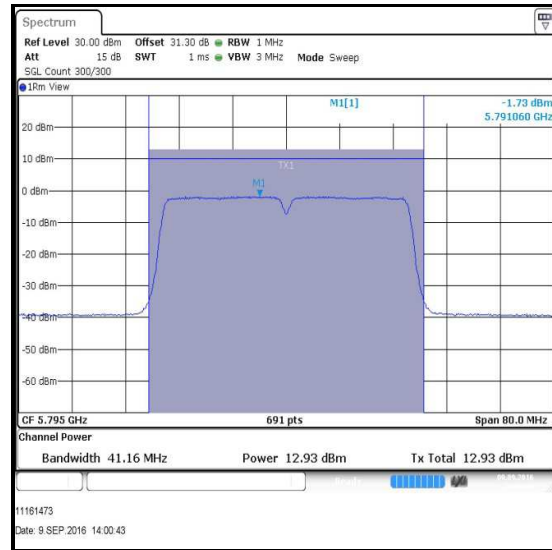
Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 2, 3**

Channel	Frequency (MHz)	Port 2			Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	12.7	0.1	12.8	12.8	0.1	12.9
Top	5795	12.8	0.1	12.9	12.9	0.1	13.0

Channel	Frequency (MHz)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	12.8	12.9	15.9	30.0	14.1	Complied
Top	5795	12.9	13.0	16.0	30.0	14.0	Complied

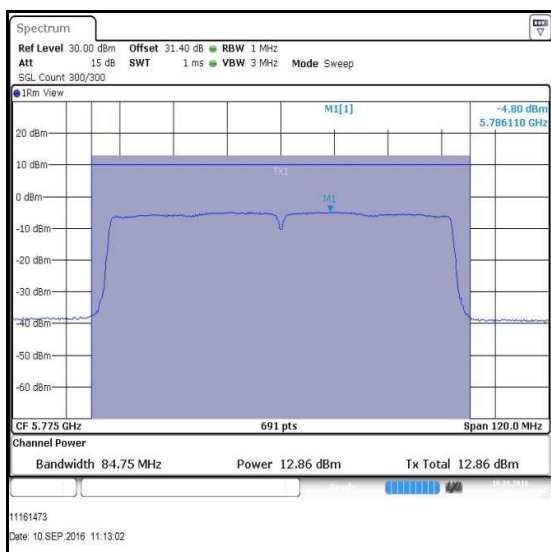
Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Port 2**Bottom Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Port 3****Bottom Channel****Top Channel**

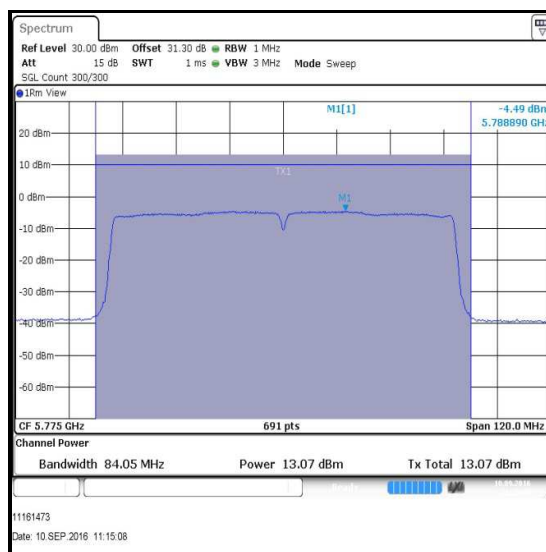
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11ac / VHT80 / MIMO / 2Tx STBC / MCS0x1 / Port 2**

Channel	Frequency (MHz)	Port 2			Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	12.9	0.1	13.0	13.1	0.1	13.2

Channel	Frequency (MHz)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	13.0	13.2	16.1	30.0	13.9	Complied



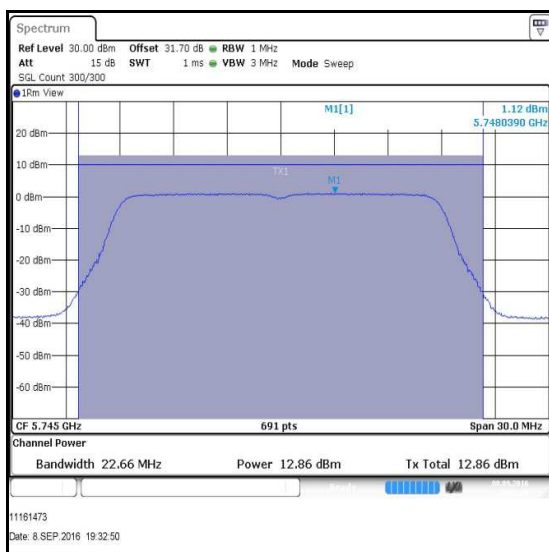
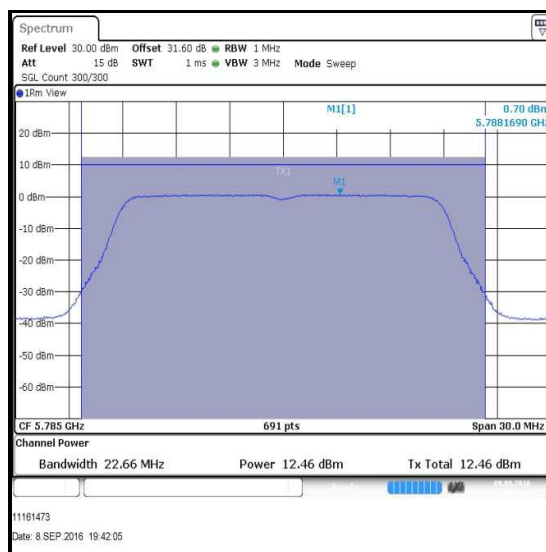
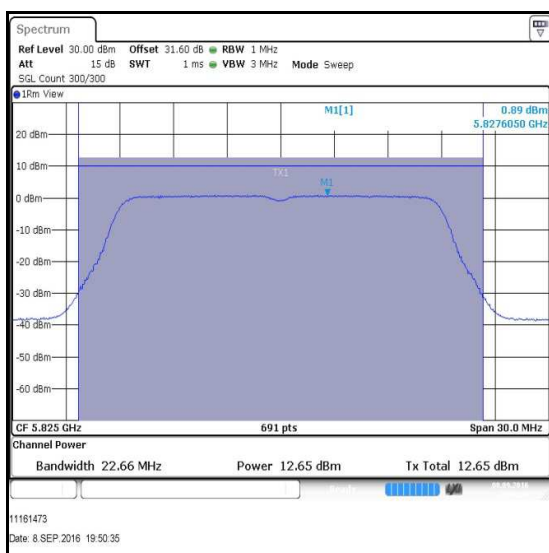
Single Channel / Port 2

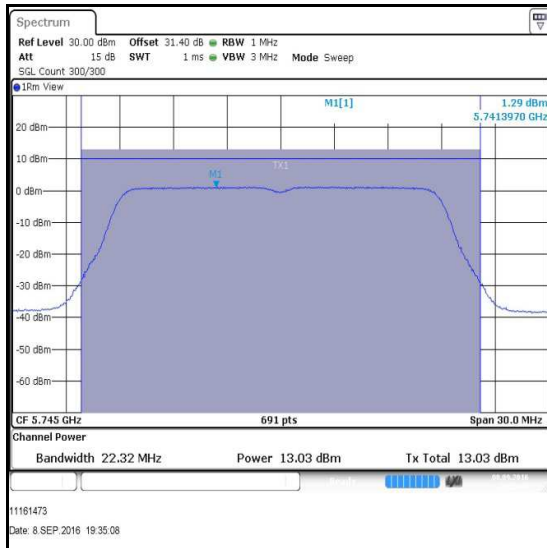
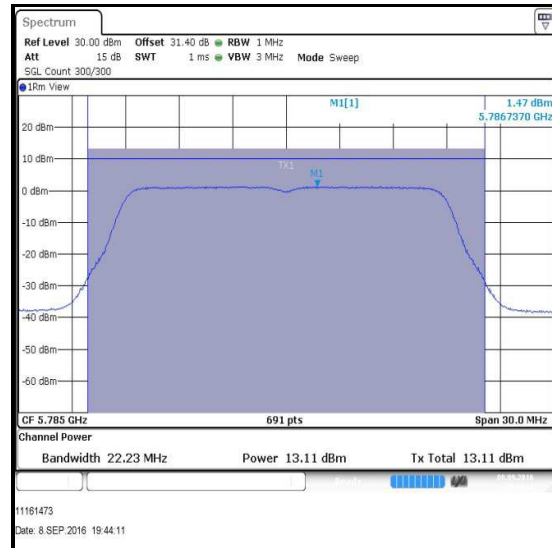
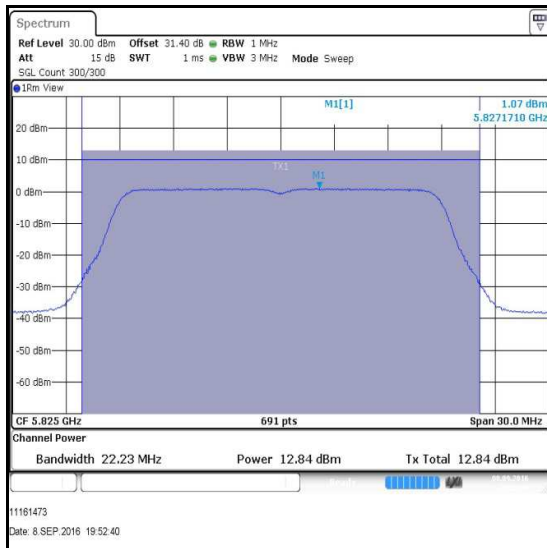


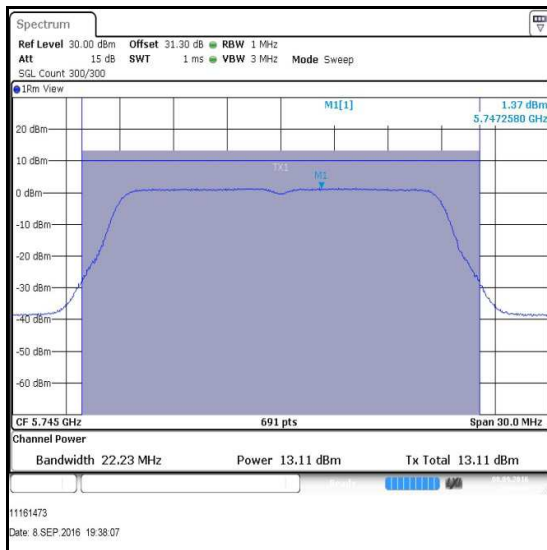
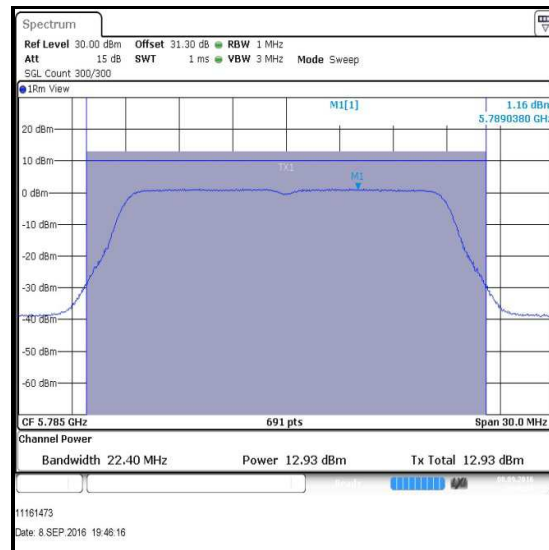
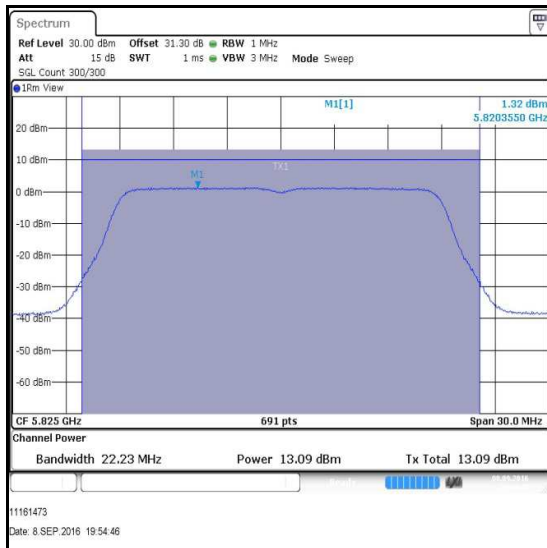
Single Channel / Port 3

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Conducted Power Port 1 (dBm)	Conducted Power Port 2 (dBm)	Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	12.9	13.0	13.1	17.8	26.5	8.7	Complied
Middle	5785	12.5	13.1	12.9	17.6	26.5	8.9	Complied
Top	5825	12.7	12.8	13.1	17.6	26.5	8.9	Complied

Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Port 1**Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Port 2****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Port 3****Bottom Channel****Middle Channel****Top Channel**

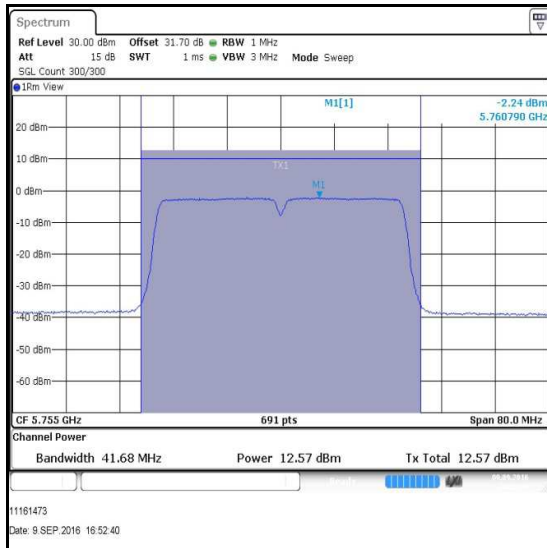
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Port 1		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	12.6	0.1	12.7
Top	5795	12.5	0.1	12.6

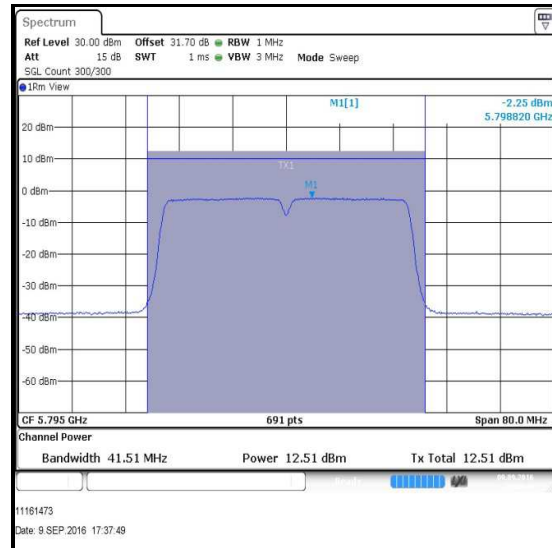
Channel	Frequency (MHz)	Port 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	13.1	0.1	13.2
Top	5795	12.8	0.1	12.9

Channel	Frequency (MHz)	Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	13.1	0.1	13.2
Top	5795	12.9	0.1	13.0

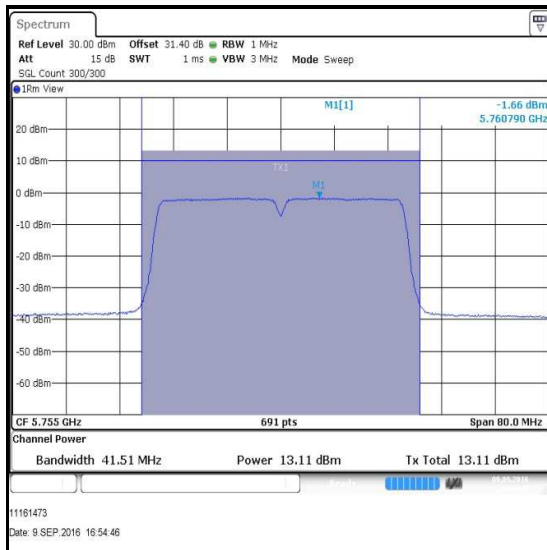
Channel	Frequency (MHz)	Corrected Conducted Power Port 1 (dBm)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	12.7	13.2	13.2	17.8	26.5	8.7	Complied
Top	5795	12.6	12.9	13.0	17.6	26.5	8.9	Complied

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Port 1**

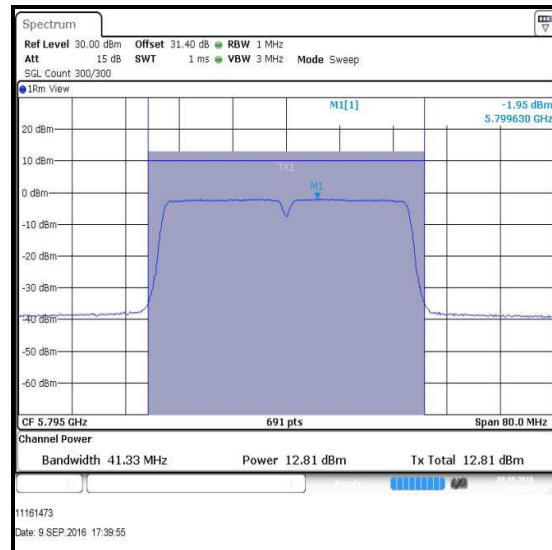
Bottom Channel



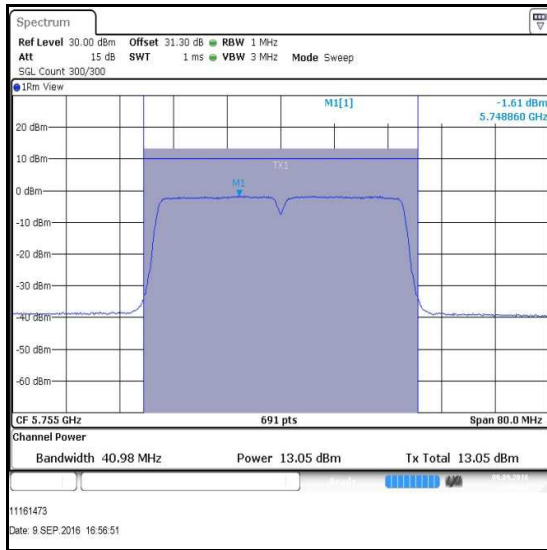
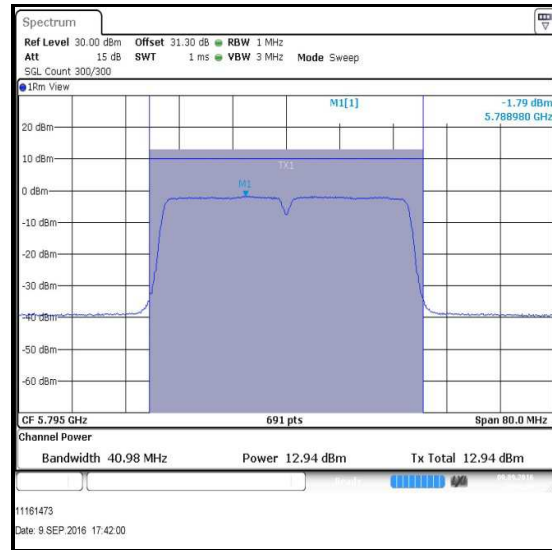
Top Channel

Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Port 2

Bottom Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Port 3****Bottom Channel****Top Channel**

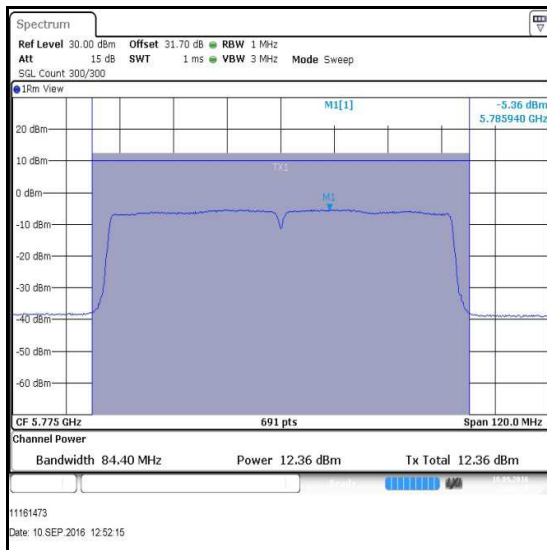
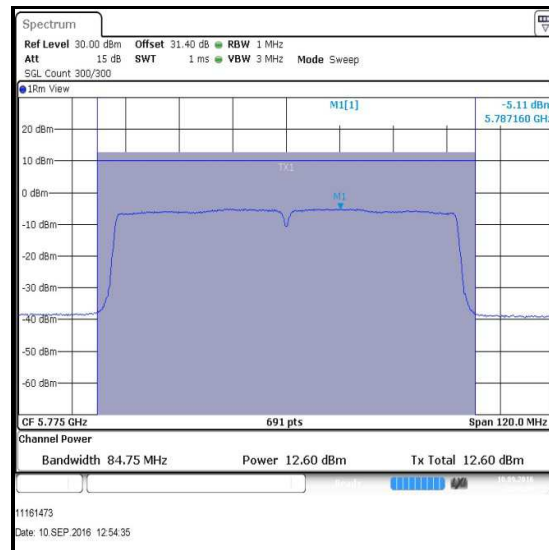
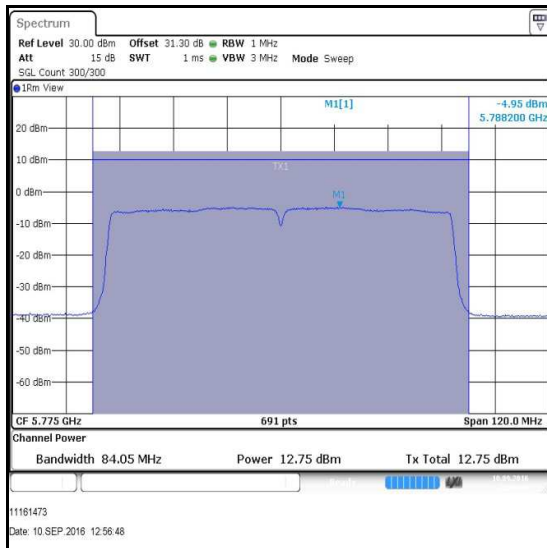
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Port 1		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	12.4	0.1	12.5

Channel	Frequency (MHz)	Port 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	12.6	0.1	12.7

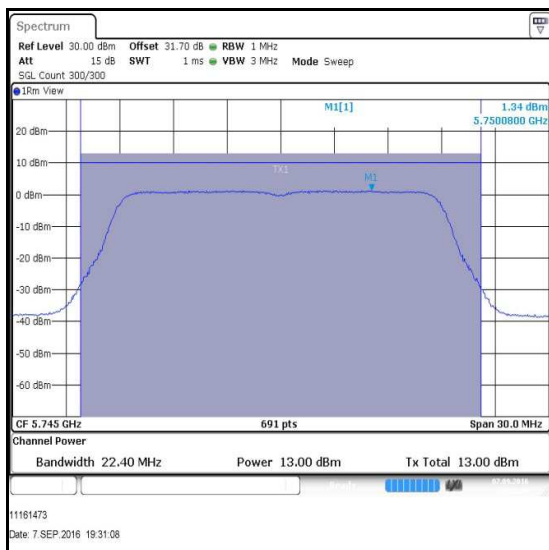
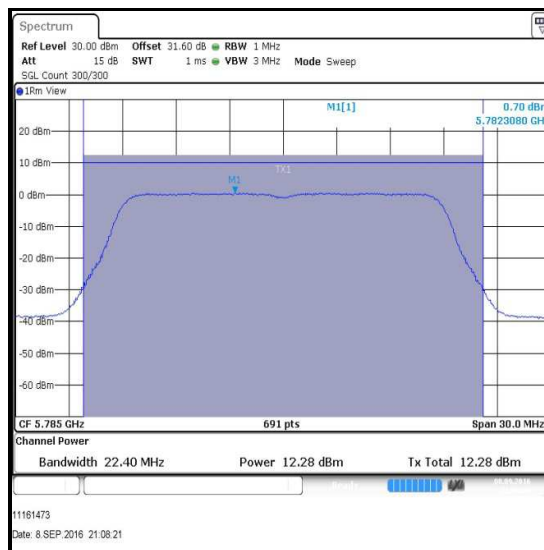
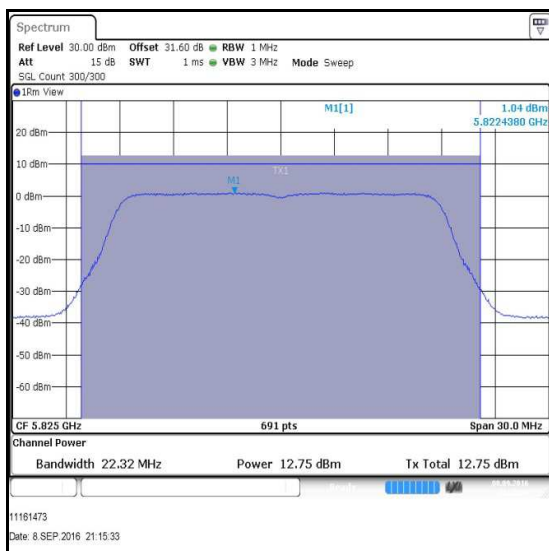
Channel	Frequency (MHz)	Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	12.8	0.1	12.9

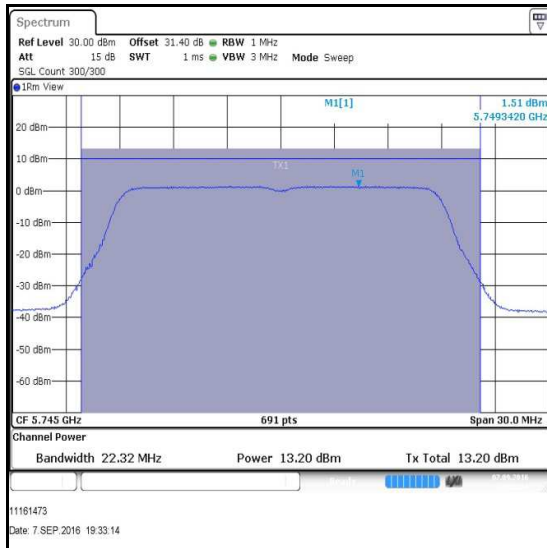
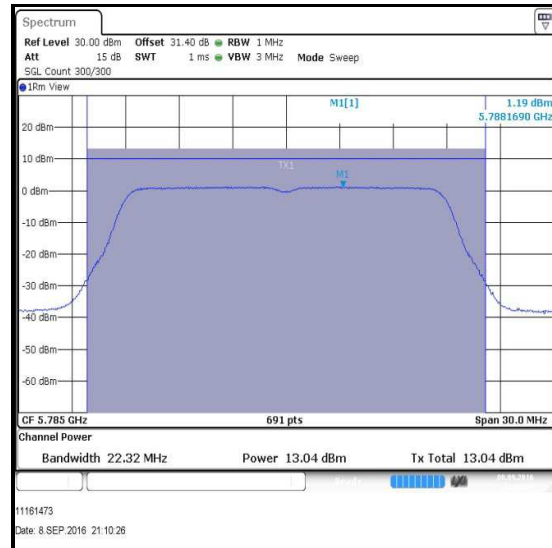
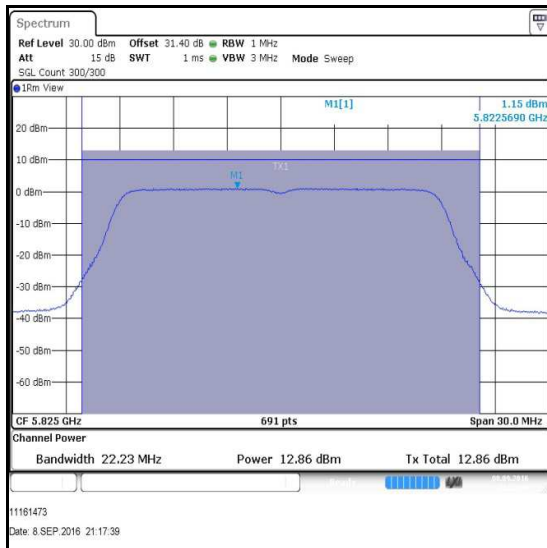
Channel	Frequency (MHz)	Corrected Conducted Power Port 1 (dBm)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	12.5	12.7	12.9	17.5	26.5	9.0	Complied

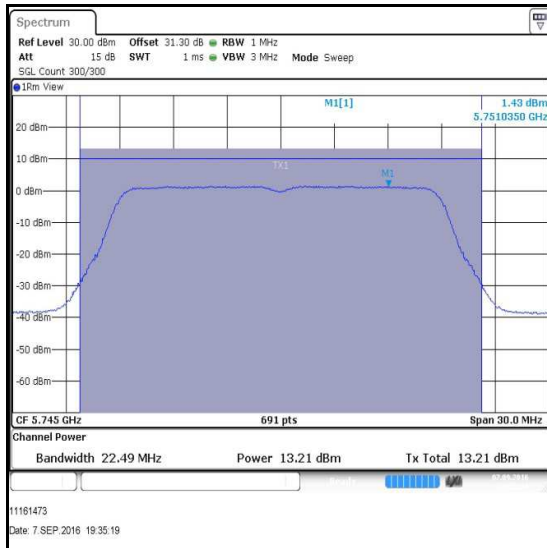
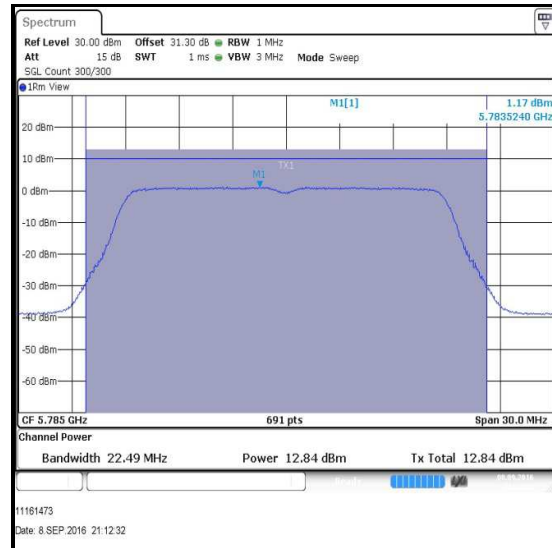
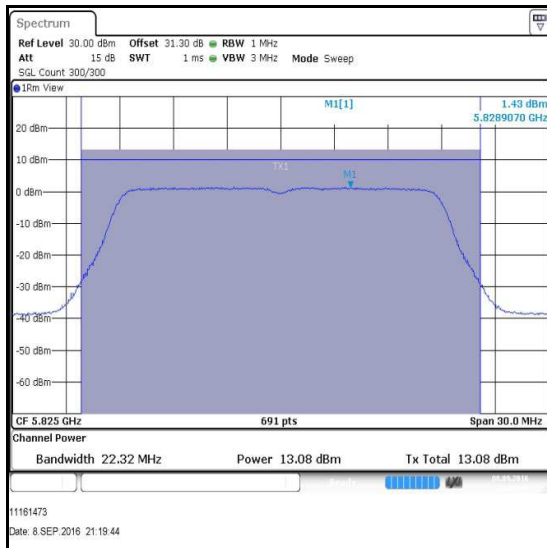
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1****Single Channel / Port 1****Single Channel / Port 2****Single Channel / Port 3**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Conducted Power Port 1 (dBm)	Conducted Power Port 2 (dBm)	Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	13.0	13.2	13.2	17.9	30.0	12.1	Complied
Middle	5785	12.3	13.0	12.8	17.5	30.0	12.5	Complied
Top	5825	12.8	12.9	13.1	17.7	30.0	12.3	Complied

Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Port 1**Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Port 2****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Port 3****Bottom Channel****Middle Channel****Top Channel**

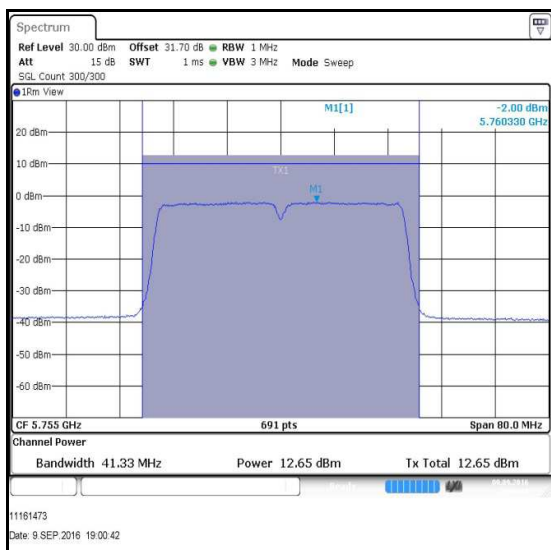
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Port 1		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	12.7	0.1	12.8
Top	5795	12.5	0.1	12.6

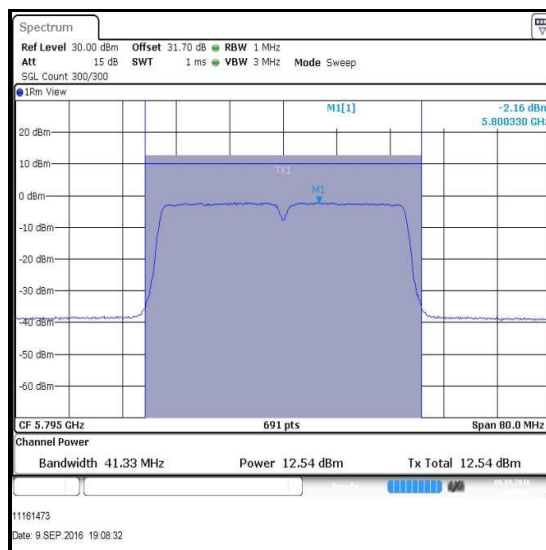
Channel	Frequency (MHz)	Port 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	13.1	0.1	13.2
Top	5795	13.0	0.1	13.1

Channel	Frequency (MHz)	Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	13.1	0.1	13.2
Top	5795	13.0	0.1	13.1

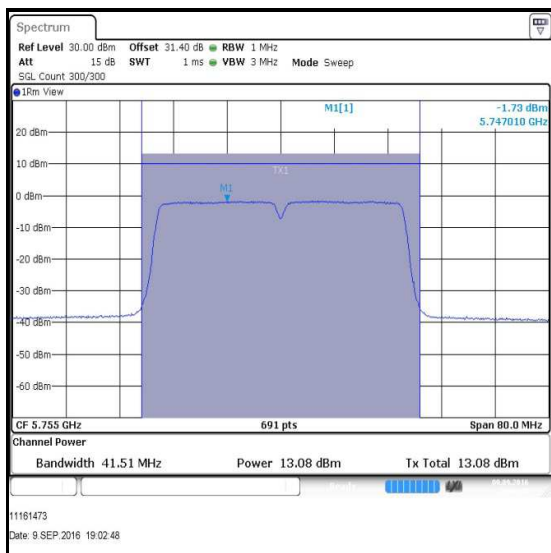
Channel	Frequency (MHz)	Corrected Conducted Power Port 1 (dBm)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	12.8	13.2	13.2	17.8	30.0	12.2	Complied
Top	5795	12.6	13.1	13.1	17.7	30.0	12.3	Complied

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Port 1**

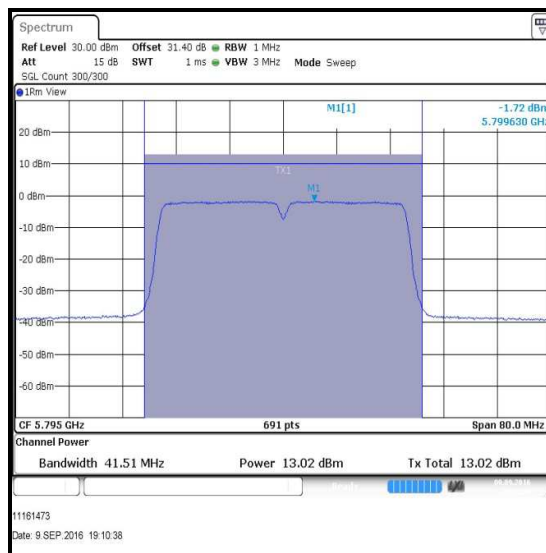
Bottom Channel



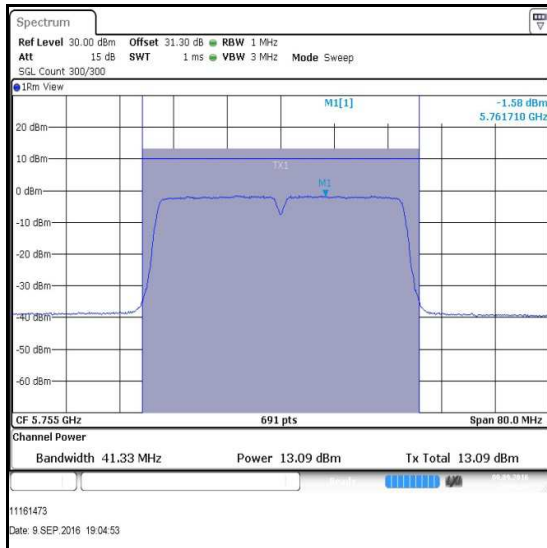
Top Channel

Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Port 2

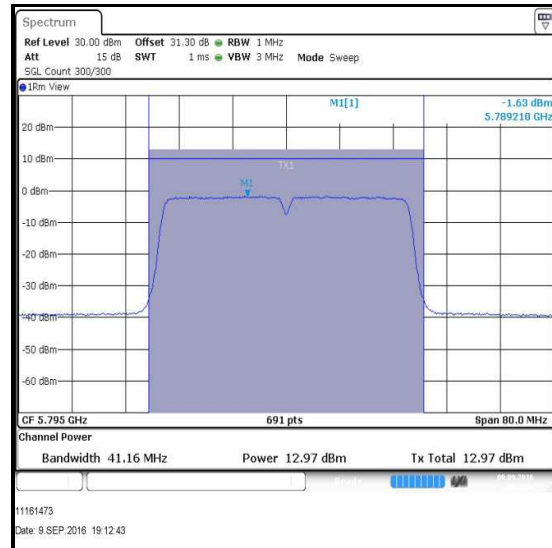
Bottom Channel



Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz bands) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Port 3**

Bottom Channel



Top Channel

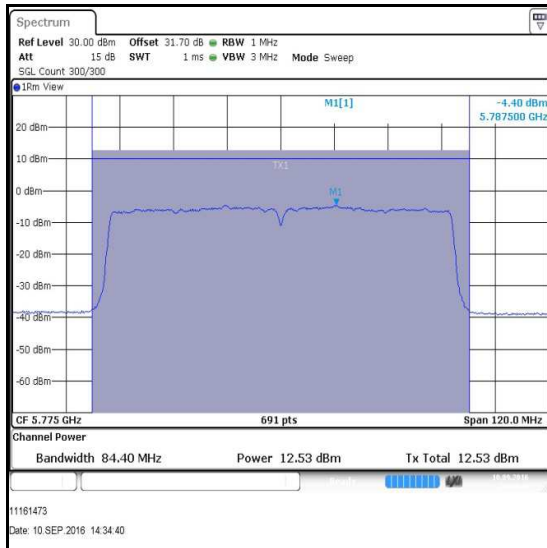
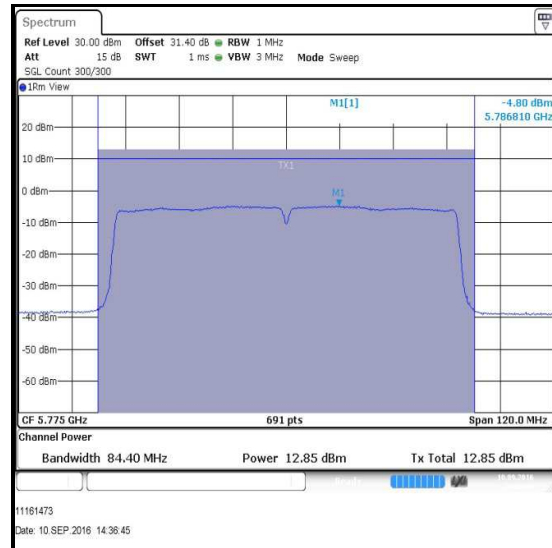
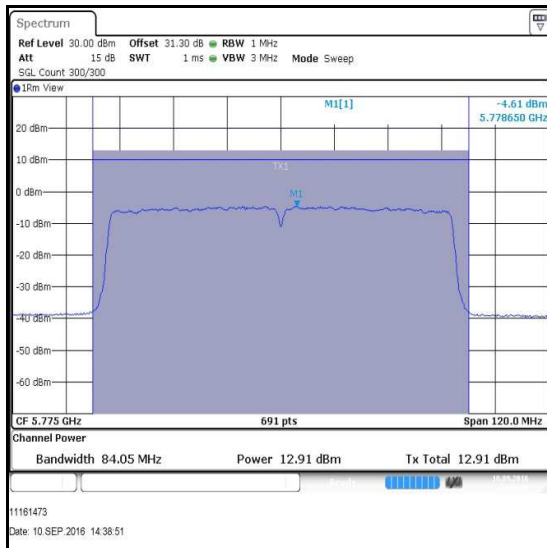
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz GHz bands) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 2, 3 band**

Channel	Frequency (MHz)	Port 1		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Top	5775	12.5	0.1	12.6

Channel	Frequency (MHz)	Port 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	12.9	0.1	13.0

Channel	Frequency (MHz)	Port 3		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	12.9	0.1	13.0

Channel	Frequency (MHz)	Corrected Conducted Power Port 1 (dBm)	Corrected Conducted Power Port 2 (dBm)	Corrected Conducted Power Port 3 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	12.6	13.0	13.0	17.6	30.0	12.4	Complied

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz GHz bands) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1****Single Channel / Port 1****Single Channel / Port 2****Single Channel / Port 3**

Transmitter Maximum Conducted Output Power (continued)**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2002	Thermohygrometer	Testo	608-H1	45041825	02 Apr 2017	12
M1835	Signal Analyser	Rohde & Schwarz	FSV30	103050	26 Feb 2017	12
A2952	RF Swtich	Pickering	64-102-002	XZ361012	Calibrated before use	-
A1374	Attenuator	Pasternack Enterprises	PE7013-10	Not stated	Calibrated before use	-
A2847	Attenuator	Radiall	R411.820.121	24671450	Calibrated before use	-
A2929	Attenuator	AtlanTecRF	AB18W5-03	011019-21#1	Calibrated before use	-
A2930	Attenuator	AtlanTecRF	AB18W5-10	000907-18#1	Calibrated before use	-
A2931	Attenuator	AtlanTecRF	AB18W5-20	970994#1	Calibrated before use	-
M260	Signal Generator	Rohde & Schwarz	SMP02	829076/008	09 May 2017	12

5.2.5. Transmitter Maximum Power Spectral Density**Test Summary:**

Test Engineer:	Andrew Edwards	Test Dates:	06 September 2016 to 15 September 2016
Test Sample Serial Number:	C02S2007HH5Y		

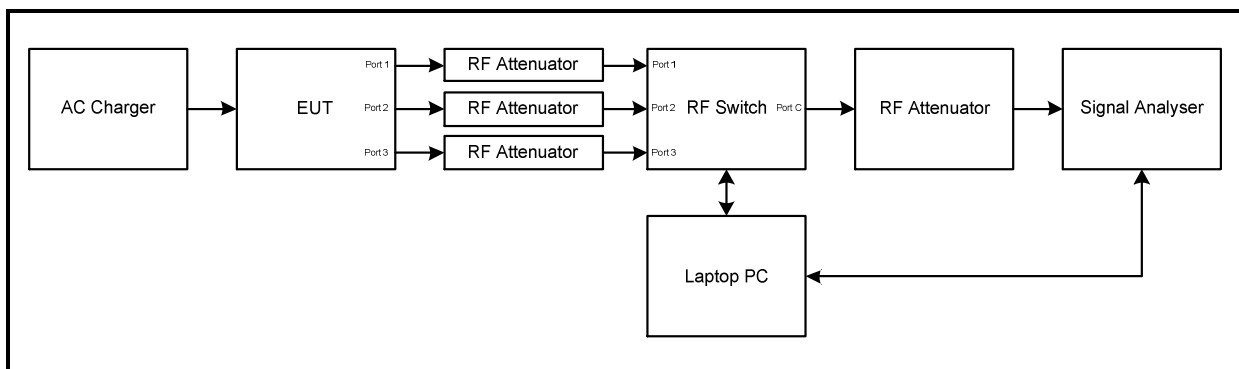
FCC Reference:	Part 15.407(a)(1)(iv)
Test Method Used:	KDB 789033 D02 Section II.F. referencing II.E.2.b) and II.E.2.d)

Environmental Conditions:

Temperature (°C):	23 to 28
Relative Humidity (%):	45 to 58

Note(s):

1. Transmitter Maximum Power Spectral Density tests in all bands were performed using a test receiver in accordance with KDB 789033 II. F referencing II.E.2.b) Method SA-1 and II.E.2.d) Method SA-2.
2. Measurements were performed on data rates detailed in section 4.2
3. For data rates where the EUT was transmitting at <98% duty cycle, the calculated duty cycle in section 5.2.3 was added to the measured maximum power spectral density in order to compute the average maximum power spectral density during the actual transmission time.
4. PSD was measured on both ports and then combined using the measure and sum spectral maxima across the outputs technique, stated in FCC KDB 662911 D01 Section E)2)b).
5. FCC Part 15.407(a)(1)(iv) limit for PPSD is <11 dBm/MHz.
6. For all SISO and MIMO STBC modes of operation, the antenna gain is < 6 dBi.
7. For 2Tx CDD modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 8.6 dBi. In accordance with Part 15.407(a)(1)(iv), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 2.6 dB to 8.4 dBm.
8. For 3Tx CDD modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 10.3 dBi. In accordance with Part 15.407(a)(1)(iv), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 4.3 dB to 6.7 dBm.
9. For details on antenna gains refer to section 3.6 of this test report.
10. 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.
11. As the power spectral density test uses the same test method as the output power test, before the power is integrated across the 26 dB bandwidth, the conducted power spectral density plots are located in the conducted output power section 5.2.4 of this test report. The peak spectral density was measured by placing a marker on the peak of the signal and the results entered in the tables below.

Transmitter Maximum Power Spectral Density (continued)**Test setup:**

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11a SISO / 6 Mbps / Port 3**

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5180	1.6	11.0	9.4	Complied
Middle	5200	1.7	11.0	9.3	Complied
Top	5240	1.7	11.0	9.3	Complied

Results: 802.11n / HT20 / SISO / MCS0 / Port 3

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5180	1.3	11.0	9.7	Complied
Middle	5200	1.3	11.0	9.7	Complied
Top	5240	1.2	11.0	9.8	Complied

Results: 802.11n / HT40 / SISO / MCS0 / Port 3

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	-3.0	0.1	-2.9	11.0	13.9	Complied
Top	5230	-1.8	0.1	-1.7	11.0	12.7	Complied

Results: 802.11ac / VHT80 / SISO / MCS0x1 / Port 3

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5210	-4.7	0.1	-4.6	11.0	15.6	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3**

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm)	Margin (dB)	Result
Bottom	5180	1.2	0.9	4.1	8.4	4.3	Complied
Middle	5200	1.2	1.0	4.1	8.4	4.3	Complied
Top	5240	1.0	0.9	4.0	8.4	4.4	Complied

Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3

Channel	Frequency (MHz)	Port 1			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5190	-3.8	0.1	-3.7	-3.6	0.1	-3.5
Top	5230	-1.7	0.1	-1.6	-1.7	0.1	-1.6

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5190	-3.7	-3.5	-0.6	8.4	9.0	Complied
Top	5230	-1.6	-1.6	1.4	8.4	7.0	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx CDD / MCS0x1 / Ports 1, 3

Channel	Frequency (MHz)	Port 1			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5210	-5.4	0.1	-5.3	-5.7	0.1	-5.6

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5210	-5.3	-5.6	-2.4	8.4	10.8	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3**

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm)	Margin (dB)	Result
Bottom	5180	1.3	1.3	4.3	11.0	6.7	Complied
Middle	5200	1.4	1.2	4.3	11.0	6.7	Complied
Top	5240	1.1	0.9	4.0	11.0	7.0	Complied

Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3

Channel	Frequency (MHz)	Port 1			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5190	-1.9	0.1	-1.8	-1.7	0.1	-1.6
Top	5230	-1.7	0.1	-1.6	-1.7	0.1	-1.6

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5190	-1.8	-1.6	1.3	11.0	9.7	Complied
Top	5230	-1.6	-1.6	1.4	11.0	9.6	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx STBC / MCS0x1 / Ports 1, 3

Channel	Frequency (MHz)	Port 1			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5210	-4.7	0.1	-4.6	-4.9	0.1	-4.8

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5210	-4.6	-4.8	-1.7	11.0	12.7	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3**

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm)	Margin (dB)	Result
Bottom	5180	-2.7	-2.6	-2.7	2.1	6.7	4.6	Complied
Middle	5200	-2.8	-2.4	-2.7	2.1	6.7	4.6	Complied
Top	5240	-2.8	-2.3	-2.7	2.2	6.7	4.5	Complied

Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5190	-4.1	0.1	-4.0
Top	5230	-3.8	0.1	-3.7

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5190	-3.3	0.1	-3.2
Top	5230	-3.2	0.1	-3.1

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5190	-3.7	0.1	-3.6
Top	5230	-3.3	0.1	-3.2

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 2 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5190	-4.0	-3.2	-3.6	1.2	6.7	5.5	Complied
Top	5230	-3.7	-3.1	-3.2	1.4	6.7	5.3	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5210	-5.9	0.1	-5.8

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5210	-5.5	0.1	-5.4

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5210	-5.9	0.1	-5.8

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 2 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5210	-5.8	-5.4	-5.8	-0.9	6.7	7.6	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3**

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm)	Margin (dB)	Result
Bottom	5180	1.3	1.3	1.3	6.1	11.0	4.9	Complied
Middle	5200	0.8	1.3	1.1	5.8	11.0	5.2	Complied
Top	5240	0.9	1.4	0.8	5.8	11.0	5.2	Complied

Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5190	-3.2	0.1	-3.1
Top	5230	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5190	-2.3	0.1	-2.2
Top	5230	-1.7	0.1	-1.6

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5190	-2.8	0.1	-2.7
Top	5230	-1.8	0.1	-1.7

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 2 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5190	-3.1	-2.2	-2.7	2.1	11.0	8.9	Complied
Top	5230	-2.1	-1.6	-1.7	3.0	11.0	8.0	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5210	-5.4	0.1	-5.3

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5210	-5.5	0.1	-5.4

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5210	-5.3	0.1	-5.2

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 2 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5210	-5.3	-5.4	-5.2	-0.5	11.0	11.5	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz bands)**Test Summary:**

Test Engineer:	Andrew Edwards	Test Dates:	06 September 2016 to 15 September 2016
Test Sample Serial Number:	C02S2007HH5Y		

FCC Reference:	Part 15.407(a)(2)
Test Method Used:	KDB 789033 D02 Section II.F. referencing II.E.2.b) and II.E.2.d)

Environmental Conditions:

Temperature (°C):	23 to 28
Relative Humidity (%):	45 to 58

Note(s):

1. FCC Part 15.407(a)(2) limit for PPSD in the 5.25-5.35 GHz and 5.47-5.725 GHz operating bands is <11 dBm/MHz.
2. For SISO modes of operation on U-NII-2A band, the EUT has an antenna gain of 6.5 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 0.5 dB to 10.5 dBm.
3. For 2Tx CDD modes of operation on U-NII-2A band, the EUT has a directional antenna gain of 9.4 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 3.4 dB to 7.6 dBm.
4. For 2Tx STBC modes of operation on U-NII-2A band, the EUT has a directional antenna gain of 6.4 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 0.4 dB to 10.6 dBm.
5. For 3Tx CDD modes of operation on U-NII-2A band, the EUT has a directional antenna gain of 11.0 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 5.0 dB to 6.0 dBm.
6. For 3Tx STBC modes of operation on U-NII-2A band, the EUT has a directional antenna gain of 6.3 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 0.3 dB to 10.7 dBm.
7. For SISO and STBC modes of operation on U-NII-2C band, the EUT has an antenna gain < 6 dBi.
8. For 2Tx CDD modes of operation on U-NII-2C band, the EUT has a directional antenna gain of 8.2 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 2.2 dB to 8.8 dBm.
9. For 3Tx CDD modes of operation on U-NII-2C band, the EUT has a directional antenna gain of 9.9 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 3.9 dB to 7.1 dBm.
10. For details on antenna gains refer to section 3.6 of this test report.

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz bands)
(continued)

Results: 802.11a SISO / 6 Mbps / 5.25-5.35 GHz band / Port 3

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	0.6	10.5	9.9	Complied
Middle	5280	0.6	10.5	9.9	Complied
Top	5320	0.6	10.5	9.9	Complied

Results: 802.11n / HT20 / SISO / MCS0 / 5.25-5.35 GHz band / Port 3

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	0.4	10.5	10.1	Complied
Middle	5280	0.2	10.5	10.3	Complied
Top	5320	0.5	10.5	10.0	Complied

Results: 802.11n / HT40 / SISO / MCS0 / 5.25-5.35 GHz band / Port 3

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Duty cycle correction (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	-2.7	0.1	-2.6	10.5	13.1	Complied
Top	5310	-2.8	0.1	-2.7	10.5	13.2	Complied

Results: 802.11ac / VHT80 / SISO / MCS0x1 / 5.25-5.35 GHz band / Port 3

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Duty cycle correction (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-5.8	0.1	-5.7	10.5	16.2	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11n / HT20 / MIMO / 2TX CDD / MCS0 / 5.25-5.35 GHz band / Ports 1, 3

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	0.2	0.5	3.4	7.6	4.2	Complied
Middle	5280	0.1	0.4	3.3	7.6	4.3	Complied
Top	5320	0.3	0.4	3.4	7.6	4.2	Complied

Results: 802.11n / HT40 / MIMO / 2TX CDD / MCS0 / 5.25-5.35 GHz band / Port 1+3

Channel	Frequency (MHz)	Port 1			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Bottom	5270	-3.3	0.1	-3.2	-2.7	0.1	-2.6
Top	5310	-2.9	0.1	-2.8	-2.9	0.1	-2.8

Channel	Frequency (MHz)	Corrected PSD Port 1 (dBm/MHz)	Corrected PSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	-3.2	-2.6	0.1	7.6	7.5	Complied
Top	5310	-2.8	-2.8	0.2	7.6	7.4	Complied

Results: 802.11ac / VHT80 / MIMO / 2TX CDD / MCS0x1 / 5.25-5.35 GHz band / Ports 1, 3

Channel	Frequency (MHz)	Port 1			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Single	5290	-10.0	0.1	-9.9	-9.6	0.1	-9.5

Channel	Frequency (MHz)	Corrected PSD Port 1 (dBm)	Corrected PSD Port 3 (dBm)	Combined PSD (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-10.0	-9.5	-6.7	7.6	14.3	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11n / HT20 / MIMO / 2TX STBC / MCS0 / 5.25-5.35 GHz band / Ports 1, 3

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	0.1	0.4	3.3	10.6	7.3	Complied
Middle	5280	0.1	0.4	3.3	10.6	7.3	Complied
Top	5320	0.0	0.5	3.3	10.6	7.3	Complied

Results: 802.11n / HT40 / MIMO / 2TX STBC / MCS0 / 5.25-5.35 GHz band / Ports 1, 3

Channel	Frequency (MHz)	Port 1			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5270	-2.9	0.1	-2.8	-2.6	0.1	-2.5
Top	5310	-2.8	0.1	-2.7	-2.5	0.1	-2.4

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	-2.8	-2.5	0.4	10.6	10.2	Complied
Top	5310	-2.7	-2.4	0.5	10.6	10.1	Complied

Results: 802.11ac / VHT80 / MIMO / 2TX STBC / MCS0x1 / 5.25-5.35 GHz band / Ports 1, 3

Channel	Frequency (MHz)	Port 1			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5290	-7.8	0.1	-7.7	-7.3	0.1	-7.2

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-7.7	-7.2	-4.4	10.6	15.0	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11n / HT20 / MIMO / 3TX CDD / MCS0 / 5.25-5.35 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	-3.6	-2.9	-3.1	1.6	6.0	4.4	Complied
Middle	5280	-3.6	-3.0	-3.0	1.6	6.0	4.4	Complied
Top	5320	-3.4	-3.0	-3.0	1.6	6.0	4.4	Complied

Results: 802.11n / HT40 / MIMO / 3TX CDD / MCS0 / 5.25-5.35 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5270	-4.1	0.1	-4.0
Top	5310	-4.0	0.1	-3.9

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5270	-3.3	0.1	-3.2
Top	5310	-3.5	0.1	-3.4

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5270	-3.3	0.1	-3.2
Top	5310	-3.5	0.1	-3.4

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	-4.0	-3.2	-3.2	1.3	6.0	4.7	Complied
Top	5310	-3.9	-3.4	-3.4	1.2	6.0	4.8	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11ac / VHT80 / MIMO / 3TX CDD / MCS0x1 / 5.25-5.35 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5290	-9.9	0.1	-9.8

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5290	-9.4	0.1	-9.3

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5290	-9.2	0.1	-9.1

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-9.8	-9.3	-9.1	-4.6	6.0	10.6	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11n / HT20 / MIMO / 3TX STBC / MCS0 / 5.25-5.35 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	-0.4	0.3	0.0	4.7	10.7	6.0	Complied
Middle	5280	-0.3	0.3	0.4	4.9	10.7	5.8	Complied
Top	5320	0.2	0.4	0.6	5.2	10.7	5.5	Complied

Results: 802.11n / HT40 / MIMO / 3TX STBC / MCS0 / 5.25-5.35 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5270	-3.2	0.1	-3.1
Top	5310	-3.3	0.1	-3.2

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5270	-2.8	0.1	-2.7
Top	5310	-2.6	0.1	-2.5

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5270	-2.7	0.1	-2.6
Top	5310	-2.5	0.1	-2.4

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	-3.1	-2.7	-2.6	2.0	10.7	8.7	Complied
Top	5310	-3.2	-2.5	-2.4	2.1	10.7	8.6	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11ac / VHT80 / MIMO / 3TX STBC / MCS0x1 / 5.25-5.35 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5290	-5.4	0.1	-5.3

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5290	-5.8	0.1	-5.7

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5290	-5.5	0.1	-5.4

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-5.3	-5.7	-5.4	-0.7	10.7	11.4	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz bands)
(continued)

Results: 802.11a SISO / 6 Mbps / 5.47-5.725 GHz band / Port 2

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	-0.7	11.0	11.7	Complied
Middle	5580	1.1	11.0	9.9	Complied
Top	5700	-5.2	11.0	16.2	Complied

Results: 802.11n / HT20 / SISO / MCS0 / 5.47-5.725GHz band / Port 2

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	-1.0	11.0	12.0	Complied
Middle	5580	0.8	11.0	10.2	Complied
Top	5700	-5.4	11.0	16.4	Complied

Results: 802.11n / HT40 / SISO / MCS0 / 5.47-5.725 GHz band / Port 2

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-2.7	0.1	-2.6	11.0	13.6	Complied
Middle	5590	-2.3	0.1	-2.2	11.0	13.2	Complied
Top	5670	-2.1	0.1	-2.0	11.0	13.0	Complied

Results: 802.11ac / VHT80 / SISO / MCS0x1 / 5.47-5.725 GHz band / Port 2

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-9.9	0.1	-9.8	11.0	20.8	Complied
Top	5610	-5.2	0.1	-5.1	11.0	16.1	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11n / HT20 / MIMO / 2TX CDD / MCS0 / 5.47-5.725 GHz band / Ports 2, 3

Channel	Frequency (MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	-3.0	-2.7	0.2	8.8	8.6	Complied
Middle	5580	0.9	0.8	3.9	8.8	4.9	Complied
Top	5700	-8.1	-8.1	-5.1	8.8	13.9	Complied

Results: 802.11n / HT40 / MIMO / 2TX CDD / MCS0 / 5.47-5.725 GHz band / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5510	-9.4	0.1	-9.3	-9.0	0.1	-8.9
Middle	5590	-2.4	0.1	-2.3	-2.2	0.1	-2.1
Top	5670	-2.4	0.1	-2.3	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Corrected PPSD Port 2 (dBm)	Corrected PPSD Port 3 (dBm)	Combined PPSD (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-9.3	-8.9	-6.1	8.8	14.9	Complied
Middle	5590	-2.3	-2.1	0.8	8.8	8.0	Complied
Top	5670	-2.3	-2.1	0.8	8.8	8.0	Complied

Results: 802.11ac / VHT80 / MIMO / 2TX CDD / MCS0x1 / 5.47-5.725 GHz band / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5530	-10.6	0.1	-10.5	-10.4	0.1	-10.3
Top	5610	-5.2	0.1	-5.1	-5.2	0.1	-5.1

Channel	Frequency (MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-10.5	-10.3	-7.4	8.8	16.2	Complied
Top	5610	-5.1	-5.1	-2.1	8.8	10.9	Complied

**Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)**

Results: 802.11n / HT20 / MIMO / 2TX STBC / MCS0 / 5.47-5.725 GHz band / Ports 2, 3

Channel	Frequency (MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	-3.0	-2.8	0.1	11.0	10.9	Complied
Middle	5580	0.8	0.6	3.7	11.0	7.3	Complied
Top	5700	-5.0	-4.9	-1.9	11.0	12.9	Complied

Results: 802.11n / HT40 / MIMO / 2TX STBC / MCS0 / 5.47-5.725 GHz band / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5510	-8.5	0.1	-8.4	-8.5	0.1	-8.4
Middle	5590	-2.4	0.1	-2.3	-2.6	0.1	-2.5
Top	5670	-2.4	0.1	-2.3	-2.4	0.1	-2.3

Channel	Frequency (MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-8.4	-8.4	-5.4	11.0	16.4	Complied
Middle	5590	-2.3	-2.5	0.6	11.0	10.4	Complied
Top	5670	-2.3	-2.3	0.7	11.0	10.3	Complied

Results: 802.11ac / VHT80 / MIMO / 2TX STBC / MCS0x1 / 5.47-5.725 GHz band / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5530	-9.9	0.1	-9.8	-9.3	0.1	-9.2
Top	5610	-5.0	0.1	-4.9	-5.2	0.1	-5.1

Channel	Frequency (MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-9.8	-9.2	-6.5	11.0	17.5	Complied
Top	5610	-4.9	-5.1	-2.0	11.0	13.0	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11n / HT20 / MIMO / 3TX CDD / MCS0 / 5.47-5.725 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm)	Margin (dB)	Result
Bottom	5500	-3.4	-3.3	-3.1	1.5	7.1	5.6	Complied
Middle	5580	-2.4	-2.0	-1.9	2.7	7.1	4.4	Complied
Top	5700	-8.0	-7.8	-8.1	-3.2	7.1	10.3	Complied

Results: 802.11n / HT40 / MIMO / 3TX CDD / MCS0 / 5.47-5.725 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5510	-9.5	0.1	-9.4
Middle	5590	-2.8	0.1	-2.7
Top	5670	-3.0	0.1	-2.9

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5510	-8.9	0.1	-8.8
Middle	5590	-2.5	0.1	-2.4
Top	5670	-2.6	0.1	-2.5

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5510	-9.1	0.1	-9.0
Middle	5590	-2.6	0.1	-2.5
Top	5670	-2.6	0.1	-2.5

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-9.4	-8.8	-9.0	-4.3	7.1	11.4	Complied
Middle	5590	-2.7	-2.4	-2.5	2.2	7.1	4.9	Complied
Top	5670	-2.9	-2.5	-2.5	2.1	7.1	5.0	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11ac / VHT80 / MIMO / 3TX CDD / MCS0x1 / 5.47-5.725 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5530	-13.4	0.1	-13.3
Top	5610	-5.4	0.1	-5.4

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5530	-13.2	0.1	-13.1
Top	5610	-5.1	0.1	-5.0

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5530	-13.0	0.1	-12.9
Top	5610	-5.2	0.1	-5.1

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-13.3	-13.1	-12.9	-8.3	7.1	15.4	Complied
Top	5610	-5.4	-5.0	-5.1	-0.4	7.1	7.5	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11n / HT20 / MIMO / 3TX STBC / MCS0 / 5.47-5.725 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm)	Margin (dB)	Result
Bottom	5500	-3.1	-3.3	-2.8	1.7	11.0	9.3	Complied
Middle	5580	0.6	0.9	0.8	5.5	11.0	5.5	Complied
Top	5700	-5.4	-4.8	-4.9	-0.3	11.0	11.3	Complied

Results: 802.11n / HT40 / MIMO / 3TX STBC / MCS0 / 5.47-5.725 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Bottom	5510	-9.2	0.1	-9.1
Middle	5590	-2.4	0.1	-2.3
Top	5670	-2.7	0.1	-2.6

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Bottom	5510	-8.5	0.1	-8.4
Middle	5590	-2.3	0.1	-2.2
Top	5670	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Bottom	5510	-8.4	0.1	-8.3
Middle	5590	-2.2	0.1	-2.1
Top	5670	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Corrected PSD Port 1 (dBm/MHz)	Corrected PSD Port 2 (dBm/MHz)	Corrected PSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-9.1	-8.4	-8.3	-3.8	11.0	14.8	Complied
Middle	5590	-2.3	-2.2	-2.1	2.6	11.0	8.4	Complied
Top	5670	-2.6	-2.1	-2.1	2.5	11.0	8.5	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz & 5.47-5.725 GHz band)
(continued)

Results: 802.11ac / VHT80 / MIMO / 3TX STBC / MCS0x1 / 5.47-5.725 GHz band / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5530	-8.8	0.1	-8.7
Top	5610	-5.2	0.1	-5.1

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5530	-9.4	0.1	-9.3
Top	5610	-5.3	0.1	-5.2

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5530	-8.8	0.1	-8.7
Top	5610	-5.3	0.1	-5.2

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-8.7	-9.3	-8.7	-4.1	11.0	15.1	Complied
Top	5610	-5.1	-5.2	-5.2	-0.4	11.0	11.4	Complied

Transmitter Maximum Power Spectral Density (Straddle Channels U-NII-2C bands and U-NII-3 bands at 5.725 GHz)**Test Summary:**

Test Engineer:	Andrew Edwards	Test Dates:	06 September 2016 to 15 September 2016
Test Sample Serial Number:	C02S2007HH5Y		

FCC Reference:	Part 15.407(a)(2)
Test Method Used:	KDB 789033 D02 Section II.F. referencing II.E.2.b) and II.E.2.d)

Environmental Conditions:

Temperature (°C):	23 to 28
Relative Humidity (%):	45 to 58

Note(s):

1. Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz need to meet requirements of both U-NII bands. Due to maximum power spectral density limit being more stringent on U-NII-2C, compliance is shown against the limits of U-NII-2C. By default the EUT also complies on U-NII-3.
2. FCC Part 15.407(a)(2) limit for PPSD is <11 dBm/MHz.
3. For SISO and STBC modes of operation, the EUT has an antenna gain < 6 dBi.
4. For 2Tx CDD modes of operation, the EUT has a directional antenna gain of 8.2 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 2.2 dB to 8.8 dBm.
5. For 3Tx CDD modes of operation, the EUT has a directional antenna gain of 9.9 dBi. In accordance with Part 15.407(a)(2), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 11.0 dBm has been reduced by 3.9 dB to 7.1 dBm.
6. For details on antenna gains refer to section 3.6 of this test report.

Transmitter Maximum Power Spectral Density (Straddle Channels U-NII-2C bands and U-NII-3 bands at 5.725 GHz)

Results: 802.11a SISO / 6 Mbps / Port 2

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	1.1	11.0	9.9	Complied

Results: 802.11n / HT20 / SISO / MCS0 / Port 2

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	0.8	11.0	10.2	Complied

Results: 802.11n / HT40 / SISO / MCS0 / Port 2

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Duty cycle correction	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	-2.3	0.1	-2.2	11.0	13.2	Complied

Results: 802.11ac / VHT80 / SISO / MCS0x1 / Port 2

Channel	Frequency (MHz)	PPSD (dBm/MHz)	Duty cycle correction	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	-5.1	0.1	-5.0	11.0	16.0	Complied

Transmitter Maximum Power Spectral Density (Straddle Channels U-NII-2C bands and U-NII-3 bands at 5.725 GHz)

Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 2, 3

Channel	Frequency (MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	0.8	0.9	3.9	8.8	4.9	Complied

Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Single	5710	-2.2	0.1	-2.1	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Corrected PSD Port 2 (dBm/MHz)	Corrected PSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	-2.1	-2.1	0.9	8.8	7.9	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx CDD / MCS0x1 / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Single	5690	-5.4	0.1	-5.3	-5.1	-0.1	-5.0

Channel	Frequency (MHz)	Corrected PSD Port 2 (dBm/MHz)	Corrected PSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	-5.3	-5.0	-2.1	8.8	10.9	Complied

Transmitter Maximum Power Spectral Density (Straddle Channels U-NII-2C bands and U-NII-3 bands at 5.725 GHz)

Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Ports 2, 3

Channel	Frequency (MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	0.8	0.9	3.9	11.0	7.1	Complied

Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Single	5710	-2.1	0.1	-2.0	-2.3	0.1	-2.2

Channel	Frequency (MHz)	Corrected PSD Port 2 (dBm/MHz)	Corrected PSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	-2.0	-2.2	0.9	11.0	10.1	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx STBC / MCS0x1 / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Single	5690	-5.2	0.1	-5.1	-4.9	0.1	-4.8

Channel	Frequency (MHz)	Corrected PSD Port 2 (dBm/MHz)	Corrected PSD Port 3 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	-5.1	-4.8	-1.9	11.0	12.9	Complied

Transmitter Maximum Power Spectral Density (Straddle Channels U-NII-2C bands and U-NII-3 bands at 5.725 GHz)

Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	-2.4	-2.0	-2.2	2.6	7.1	4.5	Complied

Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5710	-3.0	0.1	-2.9

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5710	-2.7	0.1	-2.6

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5710	-2.7	0.1	-2.6

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	-2.9	-2.6	-2.6	2.1	7.1	5.0	Complied

Transmitter Maximum Power Spectral Density (Straddle Channels U-NII-2C bands and U-NII-3 bands at 5.725 GHz)

Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5690	-5.2	0.1	-5.1

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5690	-5.2	0.1	-5.1

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5690	-5.1	0.1	-5.0

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	-5.1	-5.1	-5.0	-0.3	7.1	7.4	Complied

Transmitter Maximum Power Spectral Density (Straddle Channels U-NII-2C bands and U-NII-3 bands at 5.725 GHz)

Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	-0.2	0.0	-0.1	4.7	11.0	6.3	Complied

Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5710	-2.7	0.1	-2.6

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5710	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5710	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	-2.6	-2.1	-2.1	2.5	11.0	8.5	Complied

Transmitter Maximum Power Spectral Density (Straddle Channels U-NII-2C bands and U-NII-3 bands at 5.725 GHz)

Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5690	-4.9	0.1	-4.8

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5690	-5.5	0.1	-5.4

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5690	-4.9	0.1	-4.8

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	-4.8	-5.4	-4.8	-0.2	11.0	11.2	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band)**Test Summary:**

Test Engineer:	Andrew Edwards	Test Dates:	06 September 2016 to 15 September 2016
Test Sample Serial Number:	C02S2007HH5Y		

FCC Reference:	Part 15.407(a)(3)
Test Method Used:	KDB 789033 D02 Section II.F. referencing II.E.2.b) and II.E.2.d)

Environmental Conditions:

Temperature (°C):	23 to 28
Relative Humidity (%):	45 to 58

Note(s):

1. FCC Part 15.407(a)(3) limit for PPSD in the 5.725-5.85 GHz operating band is <30 dBm/500 kHz.
2. In accordance with ANSI C63.10 Section 4.1.4.1, use of bandwidths greater than those specified can produce higher readings. Compliance against the applicable limits is shown using a 1 MHz resolution bandwidth. This was deemed worst case.
3. For all SISO and MIMO STBC modes of operation, the antenna gain is < 6 dBi.
4. For 2Tx CDD modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 7.9 dBi. In accordance with Part 15.407(a)(3), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 30 dBm/500 kHz has been reduced by 1.9 dB to 28.1 dBm.
5. For 3Tx CDD modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 9.5 dBi. In accordance with Part 15.407(a)(3), the limit was reduced by the amount in dB the antenna gain exceeds 6 dBi. Therefore the limit of 30 dBm/500 kHz has been reduced by 3.5 dB to 26.5 dBm.
6. For details on antenna gains refer to section 3.6 of this test report.

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11a SISO / 6 Mbps / Port 2**

Channel	Frequency (MHz)	PPSD (dBm/1MHz)	Limit (dBm/500kHz)	Margin (dB)	Result
Bottom	5745	1.6	30.0	28.4	Complied
Middle	5785	1.6	30.0	28.4	Complied
Top	5825	1.6	30.0	28.4	Complied

Results: 802.11n / HT20 / SISO / MCS0 / Port 2

Channel	Frequency (MHz)	PPSD (dBm/1MHz)	Limit (dBm/500kHz)	Margin (dB)	Result
Bottom	5745	1.3	30.0	28.7	Complied
Middle	5785	1.3	30.0	28.7	Complied
Top	5825	1.0	30.0	29.0	Complied

Results: 802.11n / HT40 / SISO / MCS0 / Port 2

Channel	Frequency (MHz)	PPSD (dBm/1MHz)	Duty cycle correction	Corrected PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5755	-1.8	0.1	-1.7	30.0	31.7	Complied
Top	5795	-1.9	0.1	-1.8	30.0	31.8	Complied

Results: 802.11ac / VHT80 / SISO / MCS0x1 / Port 2

Channel	Frequency (MHz)	PPSD (dBm/1MHz)	Duty cycle correction	Corrected PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Single	5775	-4.7	0.1	-4.6	30.0	34.6	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 2, 3**

Channel	Frequency (MHz)	PPSD Port 2 (dBm/1MHz)	PPSD Port 3 (dBm/1MHz)	Combined PSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5745	1.4	1.6	4.5	28.1	23.6	Complied
Middle	5785	1.3	1.3	4.3	28.1	23.8	Complied
Top	5825	1.4	1.5	4.5	28.1	23.6	Complied

Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Bottom	5755	-2.3	0.1	-2.2	-1.9	0.1	-1.8
Top	5795	-1.8	0.1	-1.7	-1.6	0.1	-1.5

Channel	Frequency (MHz)	Corrected PSD Port 2 (dBm/MHz)	Corrected PSD Port 3 (dBm/MHz)	Combined PSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5755	-2.2	-1.8	1.0	28.1	27.1	Complied
Top	5795	-1.7	-1.5	1.4	28.1	26.7	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx CDD / MCS0x1 / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PSD (dBm/MHz)
Single	5775	-4.9	0.1	-4.8	-4.7	0.1	-4.6

Channel	Frequency (MHz)	Corrected PSD Port 2 (dBm/MHz)	Corrected PSD Port 3 (dBm/MHz)	Combined PSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Single	5775	-4.8	-4.6	-1.7	28.1	29.8	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Ports 2, 3**

Channel	Frequency (MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5745	1.4	1.4	4.4	30.0	25.6	Complied
Middle	5785	1.3	1.4	4.4	30.0	25.6	Complied
Top	5825	0.9	1.3	4.1	30.0	25.9	Complied

Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5755	-2.0	0.1	-1.9	-2.0	0.1	-1.9
Top	5795	-1.9	0.1	-1.8	-1.7	0.1	-1.6

Channel	Frequency (MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5755	-1.9	-1.9	1.1	30.0	28.9	Complied
Top	5795	-1.8	-1.6	1.3	30.0	28.7	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx STBC / MCS0x1 / Ports 2, 3

Channel	Frequency (MHz)	Port 2			Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)	PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5775	-4.8	0.1	-4.7	-4.5	0.1	-4.4

Channel	Frequency (MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Single	5775	-4.8	-4.4	-1.6	30.0	31.6	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3**

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5745	1.1	1.3	1.4	6.0	26.5	20.5	Complied
Middle	5785	0.7	1.5	1.2	5.9	26.5	20.6	Complied
Top	5825	0.9	1.1	1.3	5.9	26.5	20.6	Complied

Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5755	-2.2	0.1	-2.1
Top	5795	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5755	-1.7	0.1	-1.6
Top	5795	-1.9	0.1	-1.8

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5755	-1.6	0.1	-1.5
Top	5795	-1.8	0.1	-1.7

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5755	-2.1	-1.6	1.5	4.3	26.5	22.2	Complied
Top	5795	-2.1	-1.8	-1.7	2.9	26.5	23.6	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5775	-5.4	0.1	-5.2

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5775	-5.1	0.1	-5.0

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5775	-4.9	0.1	-4.8

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Single	5775	-5.2	-5.0	-4.8	-0.2	26.5	26.7	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3**

Channel	Frequency (MHz)	PPSD Port 1 (dBm/MHz)	PPSD Port 2 (dBm/MHz)	PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5745	1.3	1.5	1.4	6.2	30.0	23.8	Complied
Middle	5785	0.7	1.2	1.2	5.8	30.0	24.2	Complied
Top	5825	1.0	1.2	1.4	6.0	30.0	24.0	Complied

Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5755	-2.0	0.1	-1.9
Top	5795	-2.2	0.1	-2.1

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5755	-1.7	0.1	-1.6
Top	5795	-1.7	0.1	-1.6

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Bottom	5755	-1.6	0.1	-1.5
Top	5795	-1.6	0.1	-1.5

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Bottom	5755	-1.9	-1.6	-1.5	3.1	30.0	26.9	Complied
Top	5795	-2.1	-1.6	-1.5	3.0	30.0	27.0	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 2, 3**

Channel	Frequency (MHz)	Port 1		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5775	-4.4	0.1	-4.3

Channel	Frequency (MHz)	Port 2		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5775	-4.8	0.1	-4.7

Channel	Frequency (MHz)	Port 3		
		PPSD (dBm/MHz)	Duty Cycle correction (dB)	Corrected PPSD (dBm/MHz)
Single	5775	-4.6	0.1	-4.5

Channel	Frequency (MHz)	Corrected PPSD Port 1 (dBm/MHz)	Corrected PPSD Port 2 (dBm/MHz)	Corrected PPSD Port 3 (dBm/MHz)	Combined PPSD (dBm/1MHz)	Limit (dBm/500 kHz)	Margin (dB)	Result
Single	5775	-4.3	-4.7	-4.5	0.3	30.0	29.7	Complied

Transmitter Maximum Power Spectral Density (continued)**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2002	Thermohygrometer	Testo	608-H1	45041825	02 Apr 2017	12
M1835	Signal Analyser	Rohde & Schwarz	FSV30	103050	26 Feb 2017	12
A2952	RF Switch	Pickering	64-102-002	XZ361012	Calibrated before use	-
A1374	Attenuator	Pasternack Enterprises	PE7013-10	Not stated	Calibrated before use	-
A2847	Attenuator	Radiall	R411.820.121	24671450	Calibrated before use	-
A2929	Attenuator	AtlanTecRF	AB18W5-03	011019-21#1	Calibrated before use	-
A2930	Attenuator	AtlanTecRF	AB18W5-10	000907-18#1	Calibrated before use	-
A2931	Attenuator	AtlanTecRF	AB18W5-20	970994#1	Calibrated before use	-
M260	Signal Generator	Rohde & Schwarz	SMP02	829076/008	09 May 2017	12

5.2.6. Transmitter Out of Band Radiated Emissions**Test Summary:**

Test Engineer:	Stuart Martin	Test Date:	10 September 2016
Test Sample Serial Number:	C02S2003HH5Y		

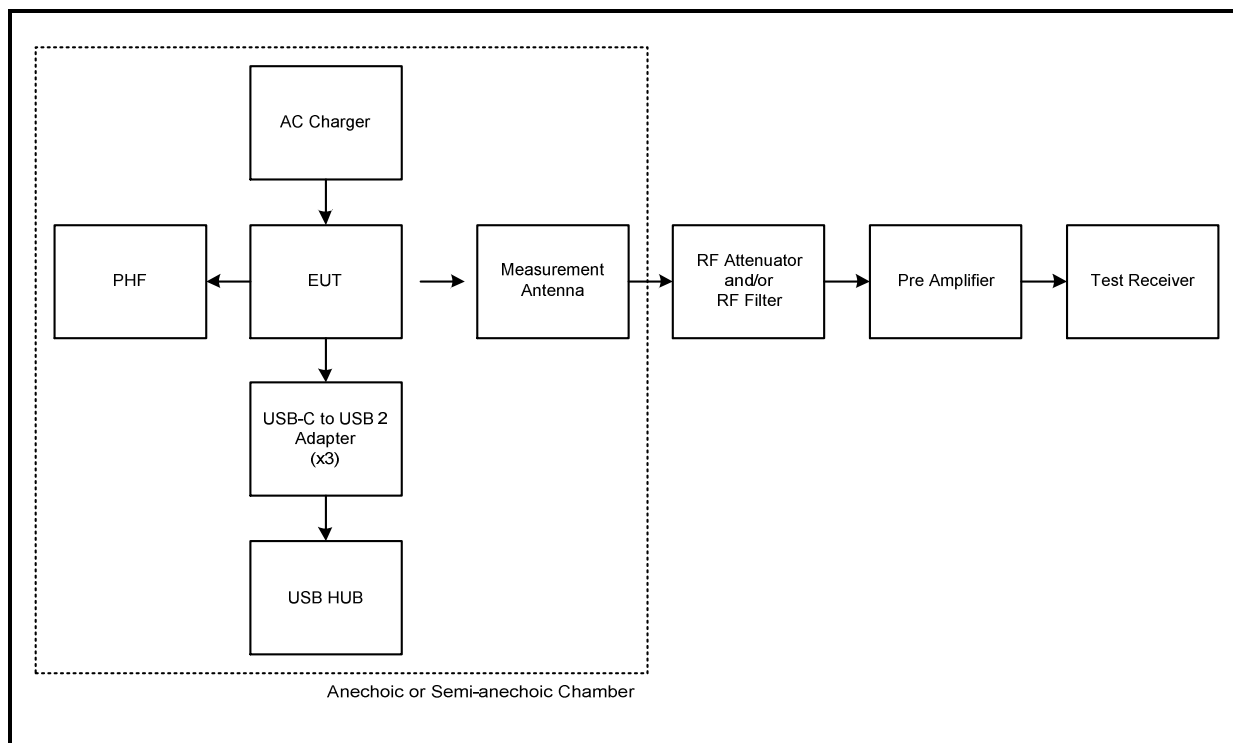
FCC Reference:	Parts 15.407(b)(4),(6),(7) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3 and 6.5
Frequency Range:	30 MHz to 1000 MHz

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	53

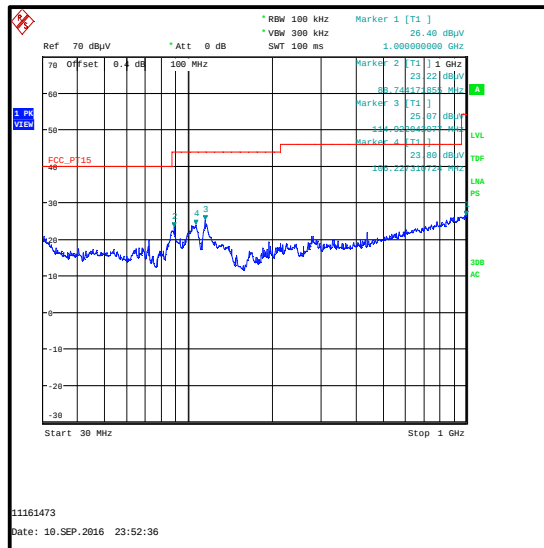
Note(s):

1. The preliminary scans showed similar emission levels below 1 GHz, for each channel and mode of operation. Therefore final radiated emissions measurements were performed with the EUT transmitting with a data rate of MCS0 (802.11n HT20 / MIMO / 3TX / CDD) on the middle channel of the 5.725-5.85 GHz band.
2. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor and cable loss.
3. All emissions shown on the pre-scan plots were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor. Therefore the highest peak noise floor reading of the measuring receiver was recorded in the table below.
4. Measurements below 1 GHz were performed in a semi-anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
5. Pre-scans were performed and markers placed on the highest measured levels. The test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. The sweep time was set to auto. A peak detector was used, sweep time was set to auto and trace mode was Max Hold.
6. Final measurements were performed on the marker frequencies. The test receiver resolution bandwidth was set to 120 kHz, using a CISPR quasi-peak detector and span big enough to see the whole emission.

Transmitter Out of Band Radiated Emissions (continued)**Test setup for radiated measurements:**

Transmitter Out of Band Radiated Emissions (continued)**Results: Middle Channel / Field Strength**

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1000.000	Vertical	26.4	54.0	27.6	Complied

**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2003	Thermohygrometer	Testo	608-H1	45046641	22 Apr 2017	12
K0017	3m RSE Chamber	Rainford EMC	N/A	N/A	19 May 2017	12
M1995	Test Receiver	Rohde & Schwarz	ESU40	100428	21 Mar 2017	12
A2888	Antenna	Schwarzbeck	VULB 9163	9163-941	07 Apr 2017	12
A2175	Low Pass Filter	AtlanTecRF	AFL-01000	800976	30 Apr 2017	12

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Test Summary:**

Test Engineers:	Nick Steele, Stuart Martin & Georgios Vrezas	Test Dates:	09 August 2016 to 20 September 2016
Test Sample Serial Number:	C02S2003HH5Y, C02S200EHH5Q & C02S200CHH5W		

FCC Reference:	Part 15.407(b)(1),(7) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3 and 6.6
Frequency Range:	1 GHz to 40 GHz

Environmental Conditions:

Temperature (°C):	20 to 25
Relative Humidity (%):	41 to 53

Note(s):

1. FCC Part 15.407(b)(1) states for transmitters operating in the band 5.15 to 5.25 GHz: all emissions outside of the 5.15 to 5.35 GHz band will not exceed -27 dBm/MHz. Part(b)(7) states the provisions of 15.205 apply e.g. restricted bands of operation.
2. Measurements were performed with the EUT transmitting using modes listed in Section 4.2 of this report were tested on all relevant channels in the frequency band 5150-5250 MHz. All plots are archived on the Company server and are available for inspection upon request.
3. Refer to section 5.2.7. *Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation)* for radiated spurious emission plots.
4. All emissions were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
5. Appropriate RF filters and attenuators were used during pre-scans and final measurements. Insertion losses were entered on the spectrum analyser as RF levels offsets.

Results: Bottom Channel / EIRP

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
See note 4					

Results: Middle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
See note 4					

Results: Top Channel / EIRP

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
See note 4					

Transmitter Out of Band Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Test Summary:**

Test Engineers:	Nick Steele, Stuart Martin & Georgios Vrezas	Test Dates:	09 August 2016 to 20 September 2016
Test Sample Serial Number:	C02S2003HH5Y, C02S200EHH5Q & C02S200CHH5W		

FCC Reference:	Part 15.407(b)(2),(7) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3 and 6.6
Frequency Range:	1 GHz to 40 GHz

Environmental Conditions:

Temperature (°C):	20 to 25
Relative Humidity (%):	41 to 53

Note(s):

1. FCC Part 15.407(b)(2) states for transmitters operating in the band 5.25 to 5.35 GHz: all emissions outside of the 5.15-5.35 GHz band will not exceed -27 dBm/MHz. Part(b)(7) states the provisions of 15.205 apply e.g. restricted bands of operation.
2. Measurements were performed with the EUT transmitting using modes listed in Section 4.2 of this report were tested on all relevant channels in the frequency band 5250-5350 MHz. All plots are archived on the Company server and are available for inspection upon request.
3. Refer to section 5.2.7. *Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation)* for radiated spurious emission plots.
4. All emissions were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
5. Appropriate RF filters and attenuators were used during pre-scans and final measurements. Insertion losses were entered on the spectrum analyser as RF levels offsets.

Results: Bottom Channel / EIRP

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
See note 4					

Results: Middle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
See note 4					

Results: Top Channel / EIRP

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
See note 4					

Transmitter Out of Band Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Test Summary:**

Test Engineers:	Nick Steele, Stuart Martin & Georgios Vrezas	Test Dates:	09 August 2016 to 20 September 2016
Test Sample Serial Number:	C02S2003HH5Y, C02S200EHH5Q & C02S200CHH5W		

FCC Reference:	Part 15.407(b)(3),(7) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3 and 6.6
Frequency Range:	1 GHz to 40 GHz

Environmental Conditions:

Temperature (°C):	20 to 25
Relative Humidity (%):	41 to 53

Note(s):

1. FCC Part 15.407(b)(3) states for transmitters operating in the band 5.47 to 5.725 GHz: all emissions outside of the band will not exceed -27 dBm/MHz. Part(b)(7) states the provisions of 15.205 apply e.g. restricted bands of operation.
2. Measurement results presented in this section, were performed with the EUT transmitting using 802.11n / 20MHz / MCS0 / 3Tx CDD on bottom, middle and top channels. All other modes listed in Section 4.2 of this report were tested on all relevant channels. These were seen to produce similar results and have therefore been excluded from this report. All plots are archived on the Company server and are available for inspection upon request.
3. Appropriate RF filters and attenuators were used during pre-scans and final measurements. Insertion losses were entered on the spectrum analyser as RF levels offsets.
4. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor and cable loss.
5. All other emissions were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
6. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 m above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Out of Band Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: Bottom Channel / EIRP**

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
See note 5					

Results: Middle Channel / Field Strength / Peak

Frequency (MHz)	Antenna Polarity	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
5119.400	Vertical	55.9	74.0	18.1	Complied

R Results: Middle Channel / Field Strength / Average

Frequency (MHz)	Antenna Polarity	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
5119.400	Vertical	43.6	54.0	10.4	Complied

Results: Top Channel / EIRP

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
See note 5					

Transmitter Out of Band Radiated Emissions (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)**Test Summary:**

Test Engineers:	Nick Steele, Stuart Martin & Georgios Vrezas	Test Dates:	02 September 2016 to 20 September 2016
Test Sample Serial Number:	C02S2003HH5Y, C02S200EHH5Q & C02S200CHH5W		

FCC Reference:	Part 15.407(b)(3),(4)(i),(7) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3 and 6.6
Frequency Range:	1 GHz to 40 GHz

Environmental Conditions:

Temperature (°C):	20 to 25
Relative Humidity (%):	41 to 53

Note(s):

1. FCC Part 15.407(b)(3) states for transmitters operating in the band 5.47 to 5.725 GHz: all emissions outside of the band will not exceed -27 dBm/MHz. Part(b)(7) states the provisions of 15.205 apply e.g. restricted bands of operation.
2. FCC Part 15.407(b)(4)(i) states for transmitters operating in the band 5.725 to 5.85 GHz: 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. Part(b)(7) states the provisions of 15.205 apply e.g. restricted bands of operation.
3. Measurement results presented in this section, were performed with the EUT transmitting using 802.11n / 20MHz / MCS0 / 3Tx CDD on bottom, middle and top channels. All other modes listed in Section 4.2 of this report were tested on all relevant channels. These were seen to produce similar results and have therefore been excluded from this report. All plots are archived on the Company server and are available for inspection upon request.
4. Appropriate RF filters and attenuators were used during pre-scans and final measurements. Insertion losses were entered on the spectrum analyser as RF levels offsets.
5. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor and cable loss.
6. All other emissions were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
7. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 m above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Out of Band Radiated Emissions (Channels that straddle the U-NII-2C and U-NII-3 bands at 5725 MHz) (continued)**Results: Single Channel / EIRP**

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
5245.467	Vertical	-37.8	-27.0	10.8	Complied

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Test Summary:**

Test Engineers:	Nick Steele, Stuart Martin & Georgios Vrezas	Test Dates:	02 September 2016 to 20 September 2016
Test Sample Serial Number:	C02S2003HH5Y, C02S200EHH5Q & C02S200CHH5W		

FCC Reference:	Part 15.407(b)(4)(i),(7) & 15.209(a)
Test Method Used:	KDB 789033 II.G. & ANSI C63.10 Sections 6.3 and 6.6
Frequency Range:	1 GHz to 40 GHz

Environmental Conditions:

Temperature (°C):	20 to 25
Relative Humidity (%):	41 to 53

Note(s):

1. FCC Part 15.407(b)(4)(i) states for transmitters operating in the band 5.725 to 5.85 GHz: 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. Part(b)(7) states the provisions of 15.205 apply e.g. restricted bands of operation.
2. Pre-scans presented in this section of the test report were performed with the EUT transmitting on middle channel in the 5.725-5.85 GHz band, using 802.11n / 20MHz / MCS0 / 3Tx CDD. This mode of operation produced the highest output power and was therefore deemed worst case. All final measurements were performed on any emission seen for each band.
3. All other modes listed in Section 4.2 of this report were tested on all relevant channels. These were seen to produce similar results and have therefore been excluded from this report. All plots are archived on the Company server and are available for inspection upon request.
4. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor and cable loss.
5. Appropriate RF filters and attenuators were used during pre-scans and final measurements. Insertion losses were entered on the spectrum analyser as RF levels offsets.
6. All other emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
7. Measurements were performed across the two restricted bands closest to the bands of operation with the EUT transmitting on the top channel in the 5.25 to 5.35 GHz band. Plots are included in this section of the test report. Peak and average measurements were made.
8. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 m above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: Bottom Channel / EIRP**

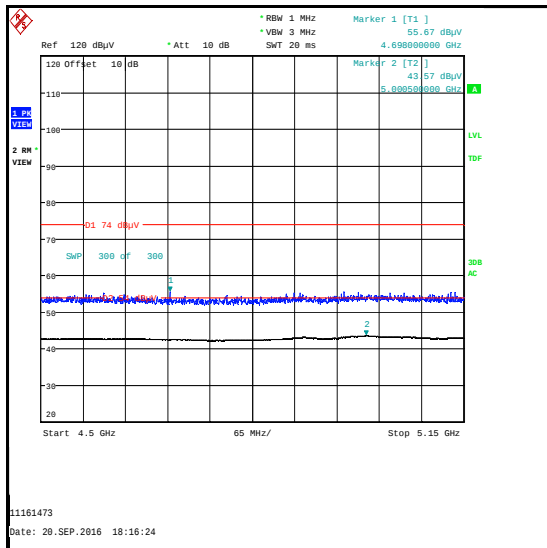
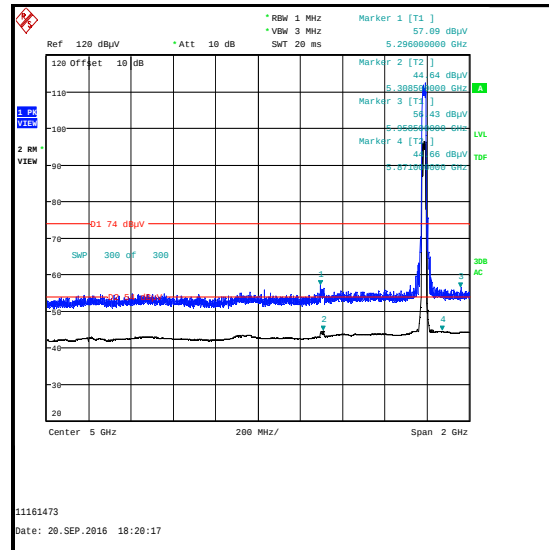
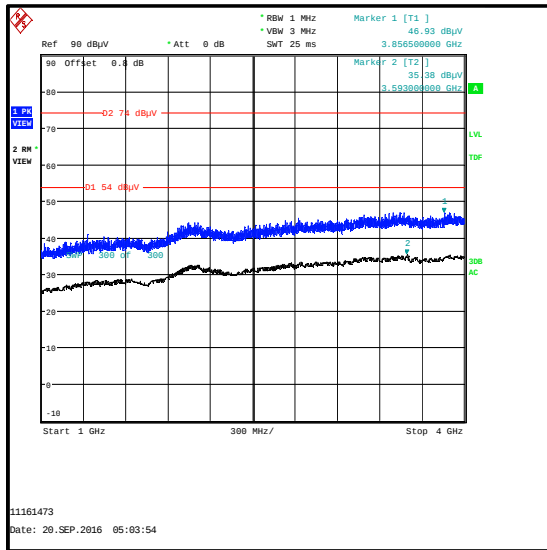
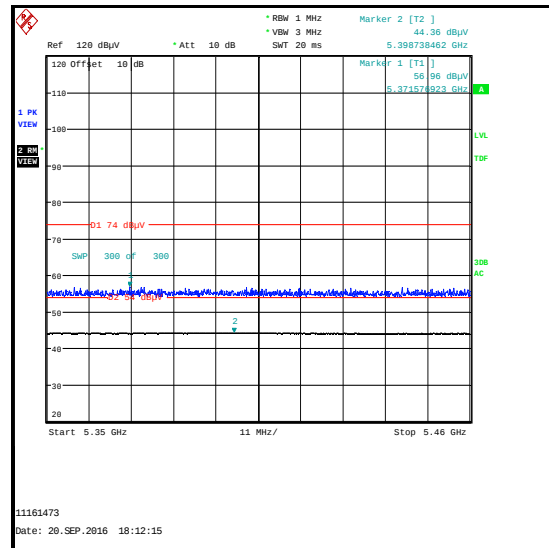
Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
5268.240	Vertical	-36.7	-27.0	9.7	Complied

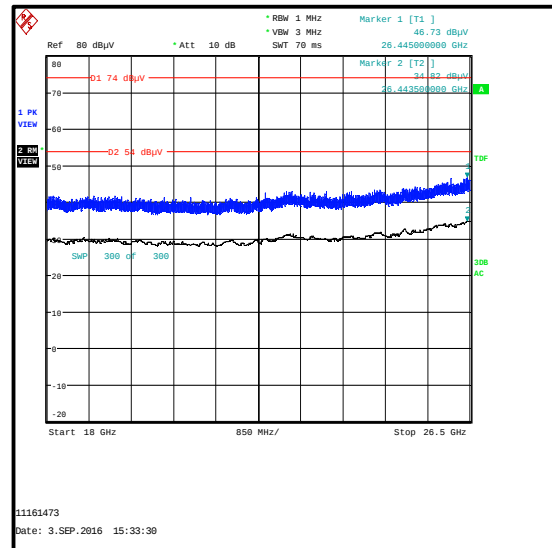
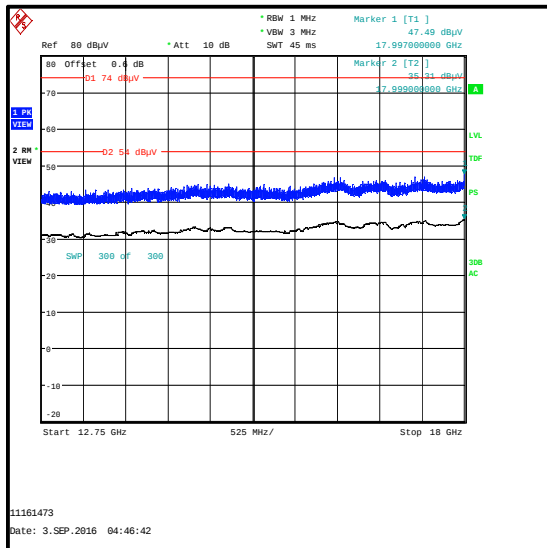
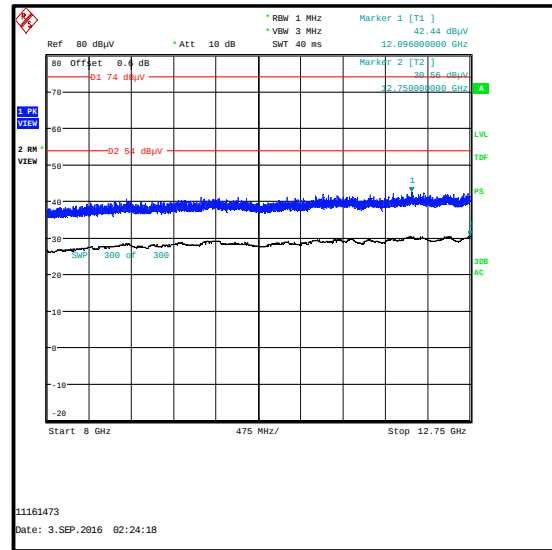
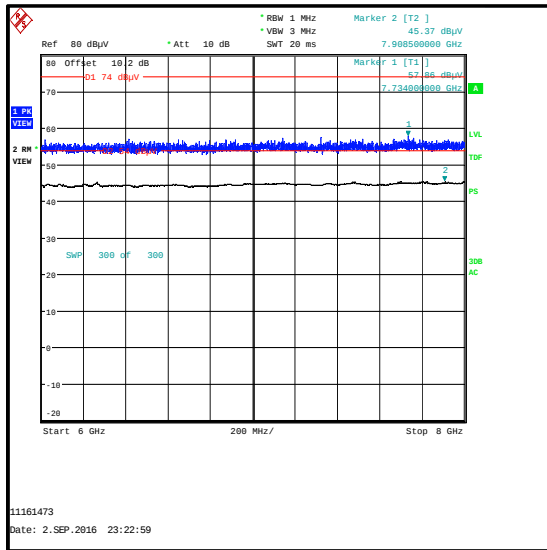
Results: Middle Channel / EIRP

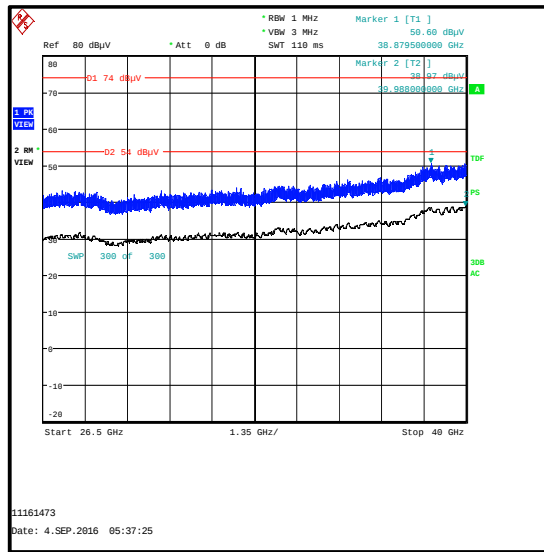
Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
5306.125	Vertical	-36.7	-27.0	9.7	Complied

Results: Top Channel / EIRP

Frequency (MHz)	Antenna Polarity	Peak Level (dBm/MHz)	Peak Limit (dBm/MHz)	Margin (dB)	Result
5336.899	Vertical	-35.2	-27.0	8.2	Complied

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Restricted Band 4.5 GHz to 5.15 GHz****Restricted Band 5.35 GHz to 5.46 GHz**

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2003	Thermohygrometer	Testo	608-H1	45046641	22 Apr 2017	12
K0017	3m RSE Chamber	Rainford EMC	N/A	N/A	17 May 2017	12
M1995	Test Receiver	Rohde & Schwarz	ESU40	100428	21 Mar 2017	12
A2891	Antenna	Schwarzbeck	HWRD 750	014	06 May 2017	12
A2892	Antenna	Schwarzbeck	BBHA 9170	9170-727	07 Apr 2017	12
A2891	Pre Amplifier	Schwarzbeck	BBV 9718	9718-306	07 Apr 2017	12
A2893	Pre-Amplifier	Schwarzbeck	BBV 9721	9721-021	07 Apr 2017	12
A2863	Pre Amplifier	Hewlett Packard	8449B	3008A02100	07 Jan 2017	12
A2889	Antenna	Schwarzbeck	BBHA 9120 B	BBHA 9120 B 653	07 Apr 2017	12
M1656	Thermohygrometer	JM Handelspunkt	30.5015.13	Not stated	07 Apr 2017	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	21 Dec 2016	12
M1886	Test Receiver	Rohde & Schwarz	ESU26	100554	21 Mar 2017	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	19 Dec 2016	12
A1818	Antenna	EMCO	3115	00075692	17 Dec 2016	12
A253	Antenna	Flann Microwave	12240-20	128	17 Dec 2016	12
A254	Antenna	Flann Microwave	14240-20	139	17 Dec 2016	12
A255	Antenna	Flann Microwave	16240-20	519	17 Dec 2016	12
A256	Antenna	Flann Microwave	18240-20	400	17 Dec 2016	12
A436	Antenna	Flann Microwave	20240-20	330	19 Dec 2016	12
A2947	High Pass Filter	AtlanTecRF	AFH-07000	1601900001	01 Jun 2017	12
A2176	High Pass Filter	AtlanTecRF	AFH-07000	800980	26 Apr 2017	12
A2133	Low Pass Filter	AtlanTecRF	AFL-04000	JFB1006-002	26 Apr 2017	12
A1396	Attenuator	Huber & Suhner	6810.17.B	757987	26 Apr 2017	12
A2916	Attenuator	AtlanTecRF	AN18W5-10	832827#1	19 Mar 2017	12

5.2.7. Transmitter Band Edge Radiated Emissions**Test Summary:**

Test Engineers:	Nick Steele, Stuart Martin & Georgios Vrezas	Test Dates:	09 August 2016 to 28 September 2016
Test Sample Serial Numbers:	C02S2003HH5Y, C02S200EHH5Q & C02S200CHH5W		

FCC Reference:	Parts 15.407(b)(1),(7), 15.205 & 15.209(a)
Test Method Used:	ANSI C63.10 Section 6.10 & KDB 789033 II.G.

Environmental Conditions:

Temperature (°C):	20 to 25
Relative Humidity (%):	41 to 53

Note(s):

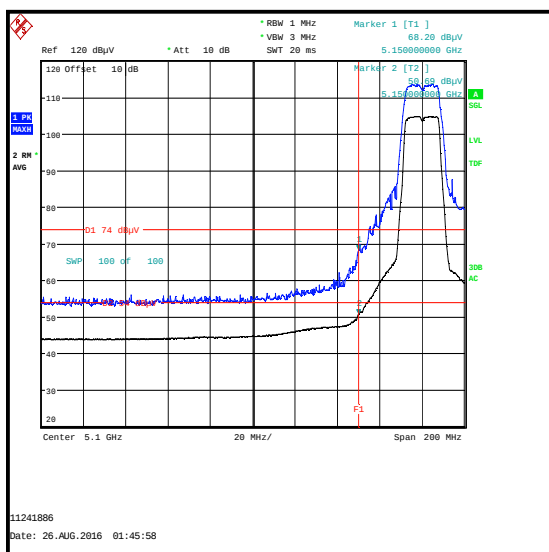
1. Measurements were performed on data rates detailed in section 4.2
2. Lower band edge measurements were performed with the EUT transmitting on the bottom or single channel. Upper band edge measurements were performed with the EUT transmitting on the top or single channel.
3. For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. However, there are restricted bands of operation below the lower band edge at 4.5-5.15 GHz and also above the upper band edge at 5.35-5.46 GHz therefore the provisions of FCC Part 15.205 apply.
4. Field strength measurements using peak and average detectors were performed in the restricted bands below 5.15 GHz and above 5.35 GHz. Field strength and EIRP results were found to be compliant with the restricted band limits and Part 15.407 out-of-band limits.
5. In accordance with KDB 789033 Section II.G.6.c) Method AD (vii), for average measurements, data rates where the EUT was transmitting <98% duty cycle, the duty cycle correction factor calculated in section 5.2.4 was added to the measured result.
6. Radiated band edge measurements were performed under different UL VS LTD job numbers. The job number appears on the bottom left of the result plots.

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11a SISO / 6 Mbps / Port 3 / Peak**

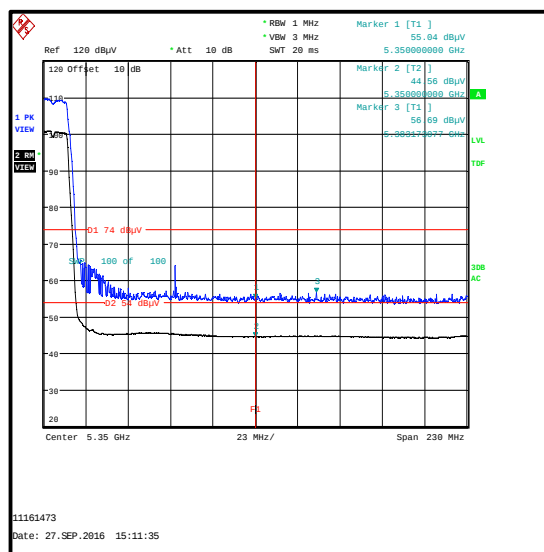
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	68.2	74.0	5.8	Complied
5350	55.0	74.0	19.0	Complied
5383.173	56.7	74.0	17.3	Complied

Results: 802.11a SISO / 6 Mbps / Port 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	50.7	54.0	3.3	Complied
5350	44.6	54.0	9.4	Complied



Lower Band Edge Peak & Average Measurement



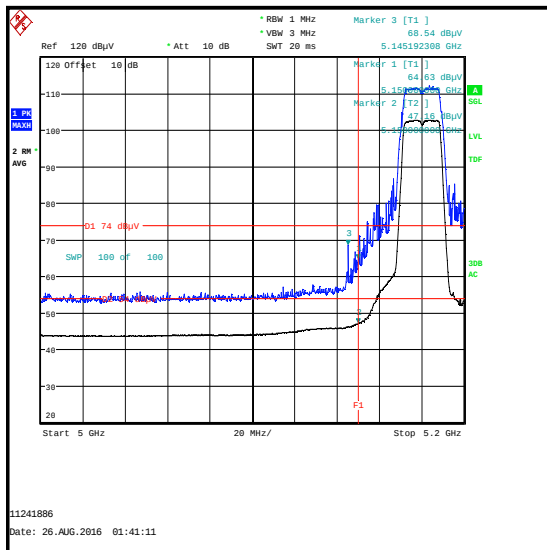
Upper Band Edge Peak & Average Measurement

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT20 / SISO / MCS0 / Port 3 / Peak**

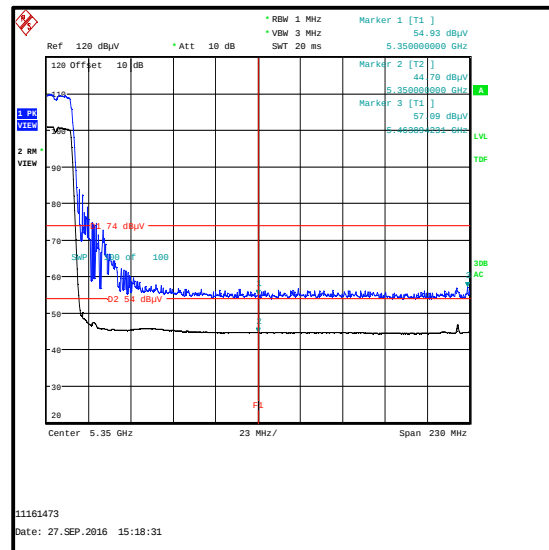
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5145.192	68.5	74.0	5.5	Complied
5150	64.6	74.0	9.4	Complied
5350	54.9	74.0	19.1	Complied

Results: 802.11n / HT20 / SISO / MCS0 / Port 3 / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	47.2	54.0	6.8	Complied
5350	44.7	54.0	9.3	Complied



Lower Band Edge Peak & Average Measurement



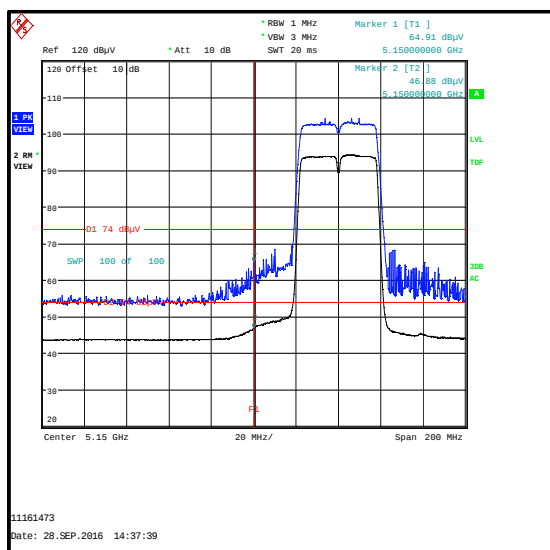
Upper Band Edge Peak & Average Measurement

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT40 / SISO / MCS0 / Port 3 / Peak**

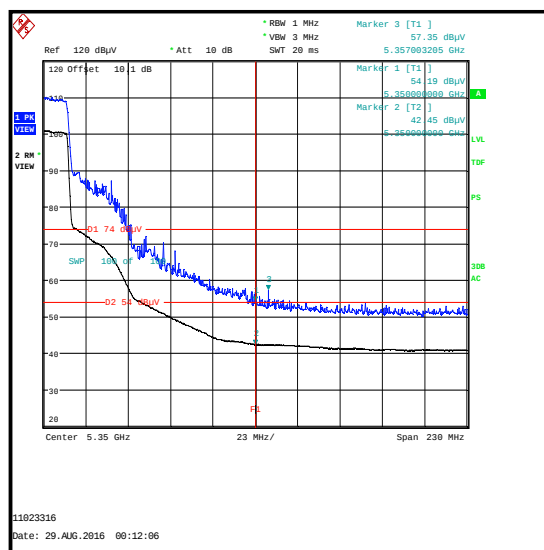
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	64.9	74.0	9.1	Complied
5350	54.2	74.0	19.8	Complied
5357.003	57.4	74.0	16.6	Complied

Results: 802.11n / HT40 / SISO / MCS0 / Port 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	46.9	0.1	47.0	54.0	7.0	Complied
5350	42.5	0.1	42.6	54.0	11.4	Complied



Lower Band Edge Peak & Average Measurement



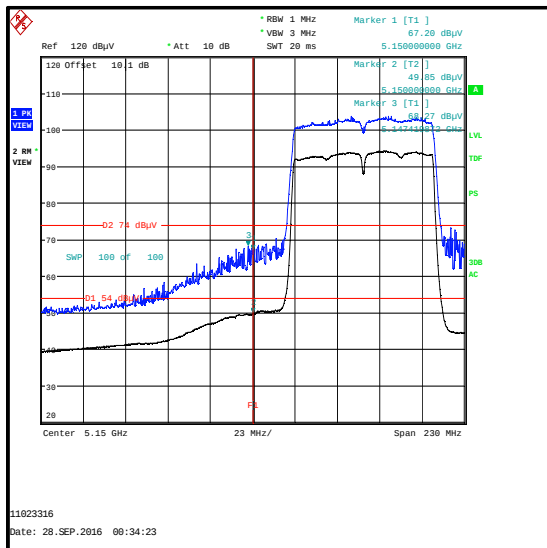
Upper Band Edge Peak & Average Measurement

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / VHT80 / SISO / MCS0 / Port 3 / Peak**

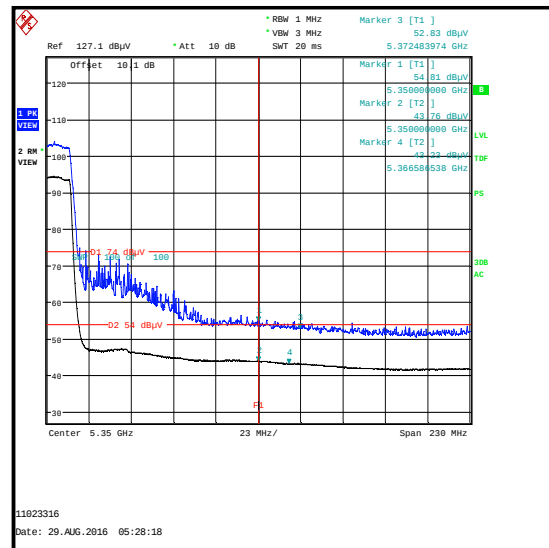
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5147.420	68.3	74.0	5.7	Complied
5150	67.2	74.0	6.8	Complied
5350	54.8	74.0	19.2	Complied

Results: 802.11ac / VHT80 / SISO / MCS0 / Port 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	49.9	0.1	50.0	54.0	4.0	Complied
5350	43.8	0.1	43.9	54.0	10.1	Complied



Lower Band Edge Peak & Average Measurement



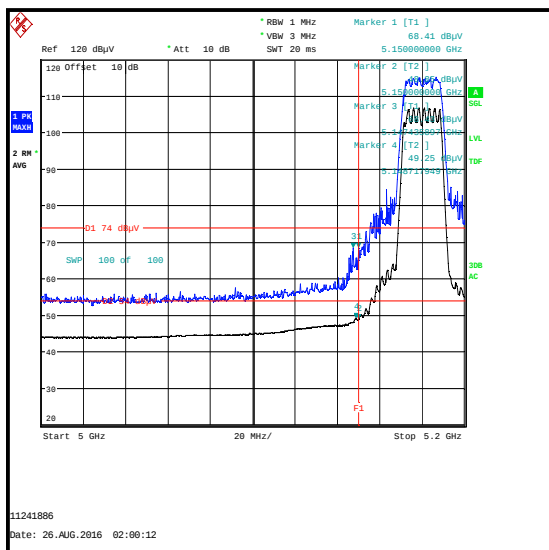
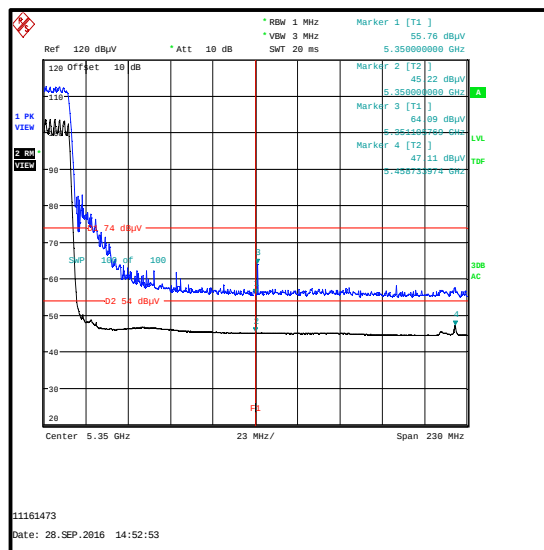
Upper Band Edge Peak & Average Measurement

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5147.436	68.4	74.0	5.6	Complied
5150	68.4	74.0	5.6	Complied
5350	55.8	74.0	18.2	Complied
5351.109	64.1	74.0	9.9	Complied

Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5148.718	49.3	54.0	4.7	Complied
5150	48.9	54.0	5.1	Complied
5350	45.2	54.0	8.8	Complied
5458.734	47.1	54.0	6.9	Complied

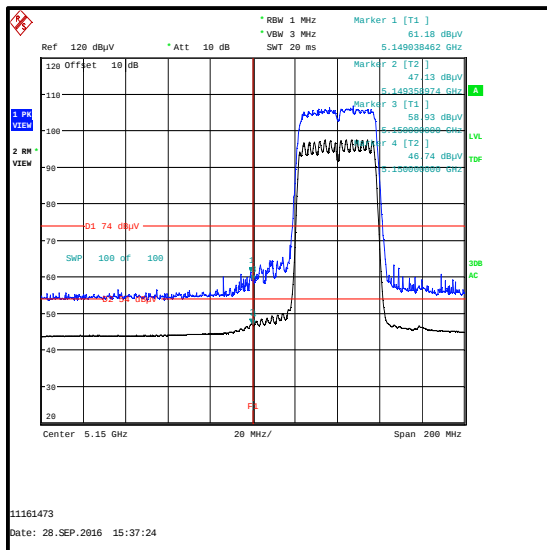
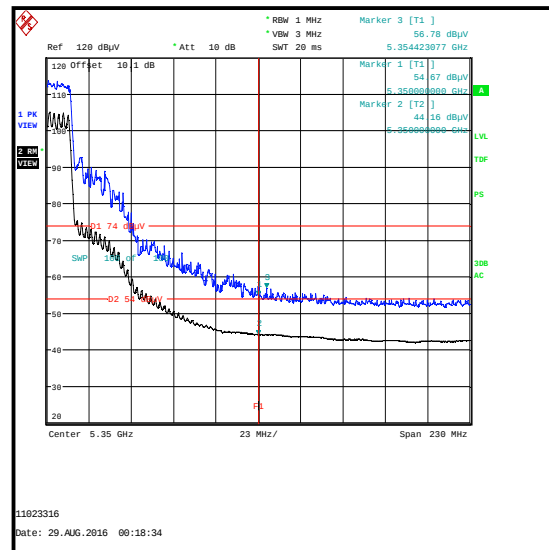
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5149.038	61.2	74.0	12.8	Complied
5150	58.9	74.0	15.1	Complied
5350	54.7	74.0	19.3	Complied
5354.423	56.8	74.0	17.2	Complied

Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5149.038	47.1	0.1	47.2	54.0	6.8	Complied
5150	46.7	0.1	46.8	54.0	7.2	Complied
5350	44.2	0.1	44.3	54.0	9.7	Complied

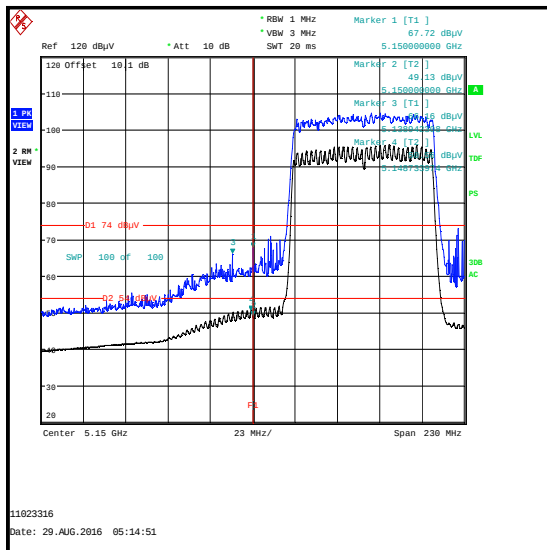
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / VHT80 / MIMO / 2Tx CDD / MCS0x1 / Ports 1, 3 / Peak**

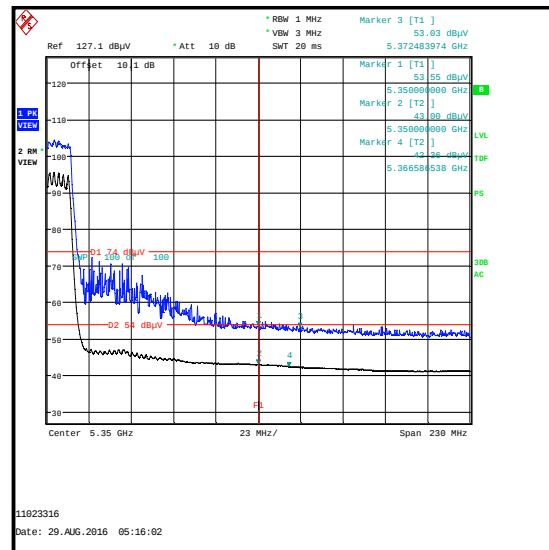
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	67.7	74.0	6.3	Complied
5350	53.6	74.0	20.4	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx CDD / MCS0x1 / Ports 1, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5148.734	50.6	0.1	50.7	54.0	3.3	Complied
5150	49.1	0.1	49.2	54.0	4.8	Complied
5350	43.0	0.1	43.1	54.0	10.9	Complied



Lower Band Edge Peak & Average Measurement



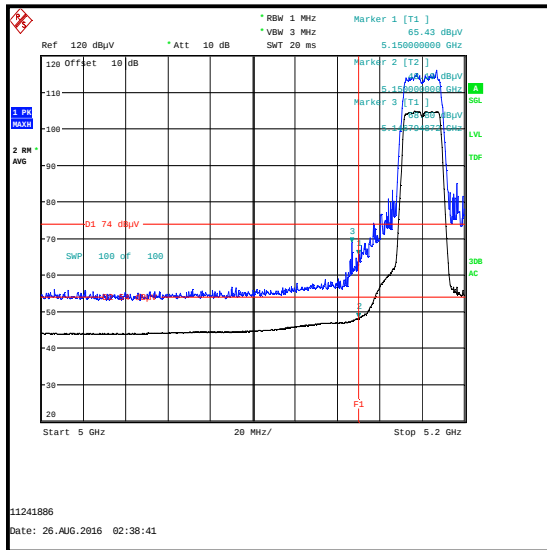
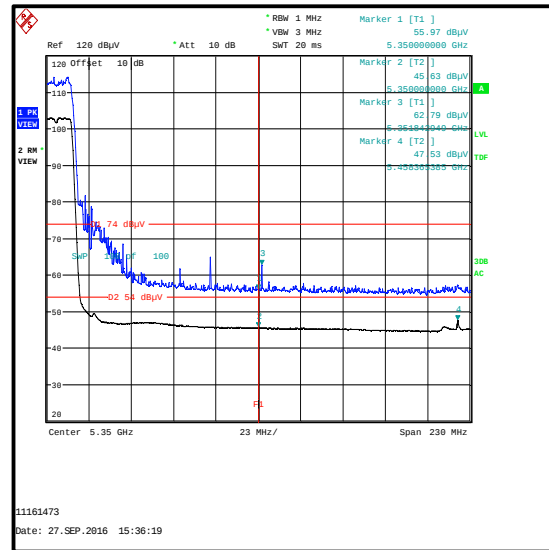
Upper Band Edge Peak & Average Measurement

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5146.795	68.8	74.0	5.2	Complied
5150	65.4	74.0	8.6	Complied
5350	56.0	74.0	18.0	Complied
5351.843	62.8	74.0	11.2	Complied

Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	48.2	54.0	5.8	Complied
5350	45.6	54.0	8.4	Complied
5458.365	47.5	54.0	6.5	Complied

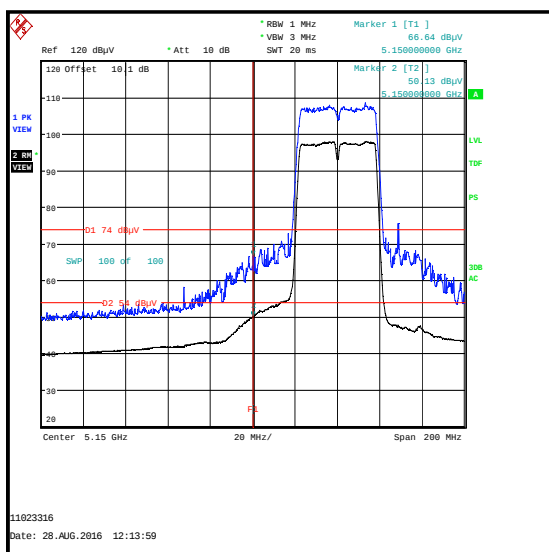
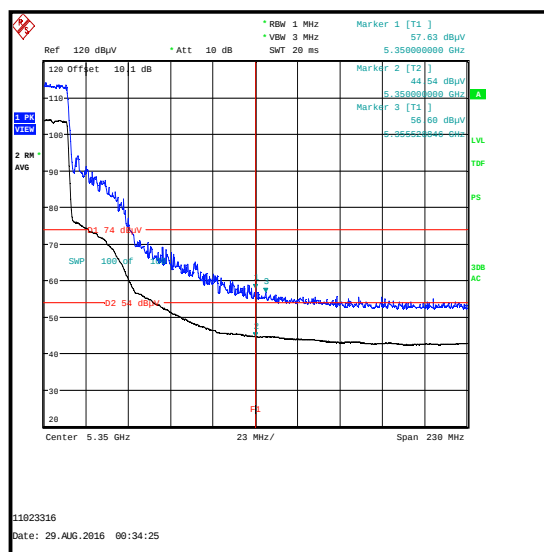
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	66.6	74.0	7.4	Complied
5350	57.6	74.0	16.4	Complied

Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	50.1	0.1	50.2	54.0	3.8	Complied
5350	44.5	0.1	44.6	54.0	9.4	Complied

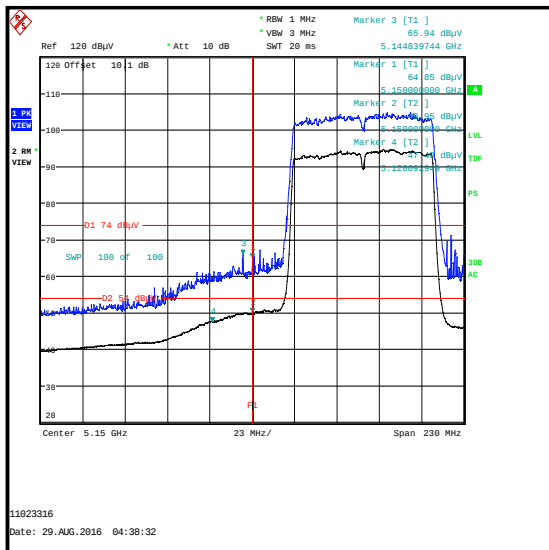
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / VHT80 / MIMO / 2Tx STBC / MCS0x1 / Ports 1, 3 / Peak**

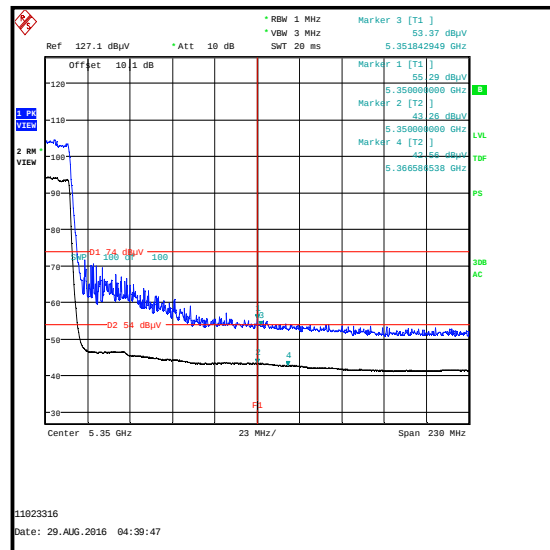
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5144.840	65.9	74.0	8.1	Complied
5150	64.9	74.0	9.1	Complied
5350	55.3	74.0	18.7	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx STBC / MCS0x1 / Ports 1, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	50.0	0.1	50.1	54.0	3.9	Complied
5350	43.3	0.1	43.4	54.0	10.6	Complied



Lower Band Edge Peak & Average Measurement



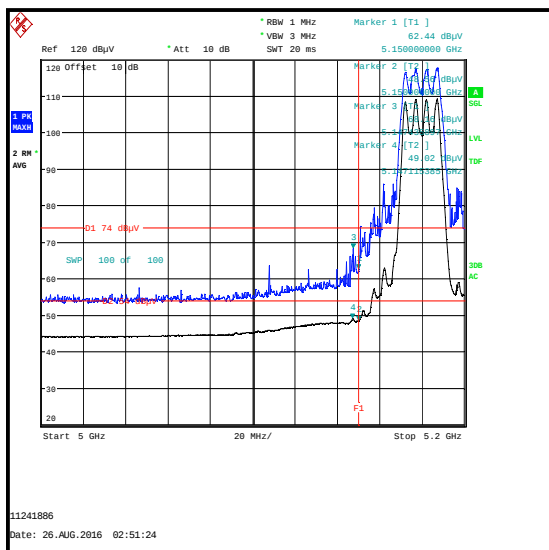
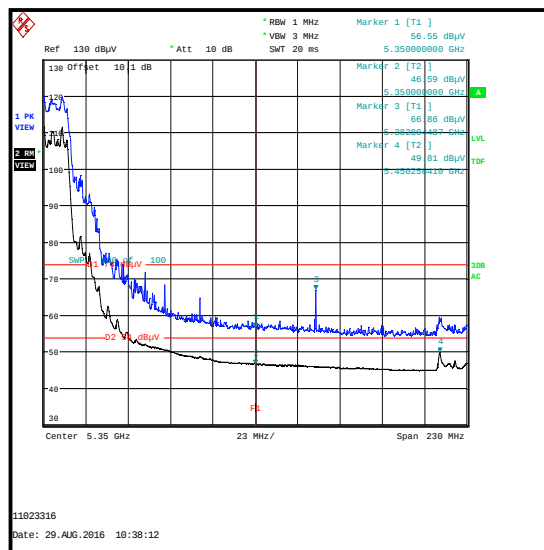
Upper Band Edge Peak & Average Measurement

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5147.436	68.2	74.0	5.8	Complied
5150	62.4	74.0	11.6	Complied
5350	56.6	74.0	17.4	Complied
5382.804	66.9	74.0	7.1	Complied

Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5147.115	49.0	54.0	5.0	Complied
5150	48.6	54.0	5.4	Complied
5350	46.6	54.0	7.4	Complied
5450.256	49.8	54.0	4.2	Complied

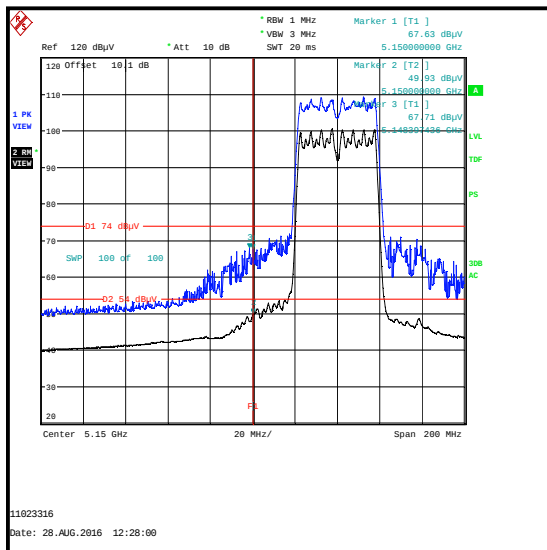
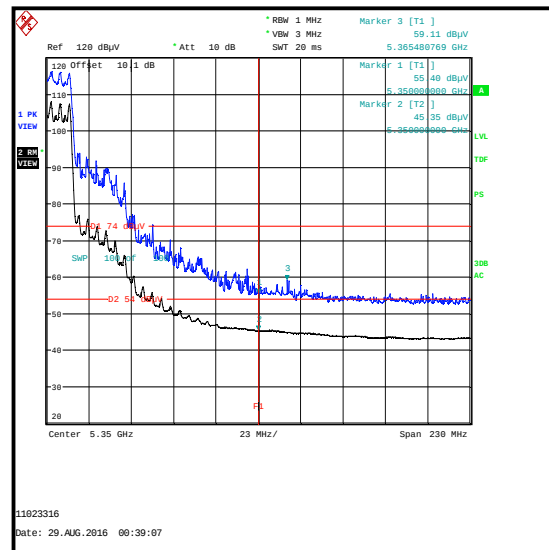
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5148.397	67.7	74.0	6.3	Complied
5150	67.6	74.0	6.4	Complied
5350	55.4	74.0	18.6	Complied
5365.481	59.1	74.0	14.9	Complied

Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	49.9	0.1	50.0	54.0	4.0	Complied
5350	45.4	0.1	45.5	54.0	8.5	Complied

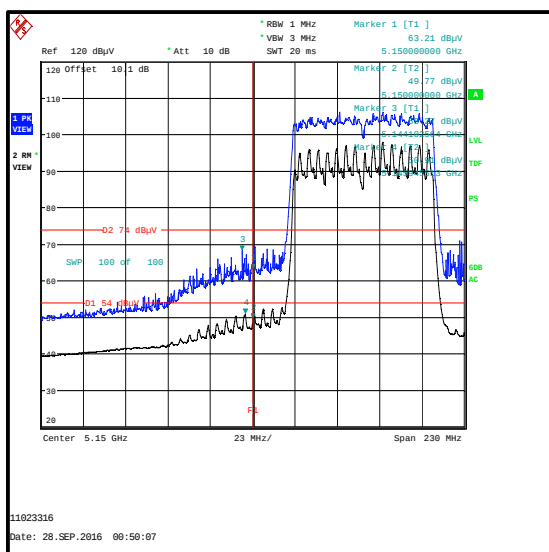
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1 / Ports 1, 2, 3 / Peak**

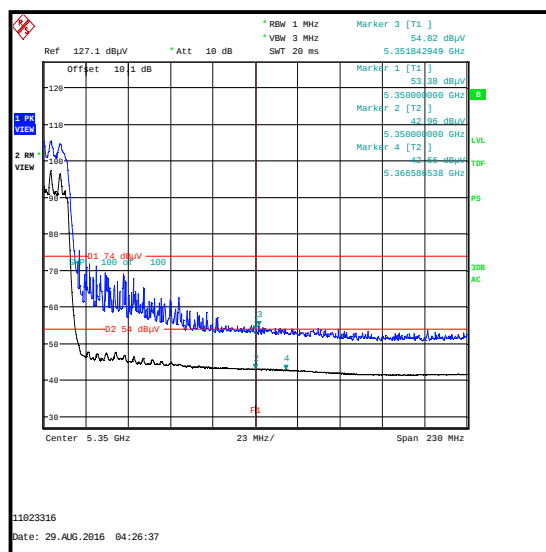
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5144.103	68.3	74.0	5.7	Complied
5150	63.2	74.0	10.8	Complied
5350	53.4	74.0	20.6	Complied
5351.843	54.8	74.0	19.2	Complied

Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1 / Ports 1,2, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5145.946	50.9	0.1	51.0	54.0	3.0	Complied
5150	49.8	0.1	49.9	54.0	4.1	Complied
5350	43.0	0.1	43.1	54.0	10.9	Complied



Lower Band Edge Peak & Average Measurement



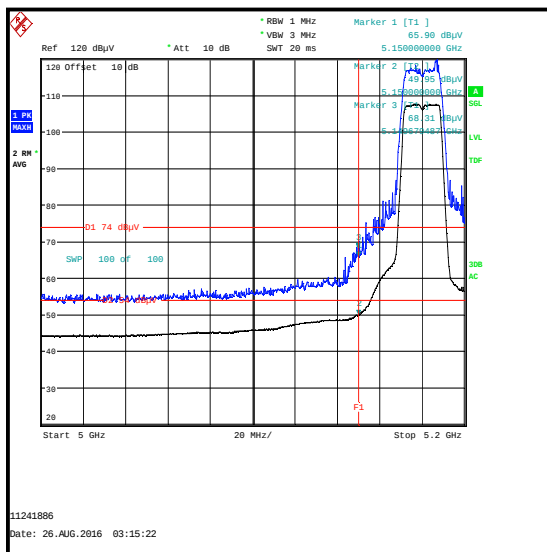
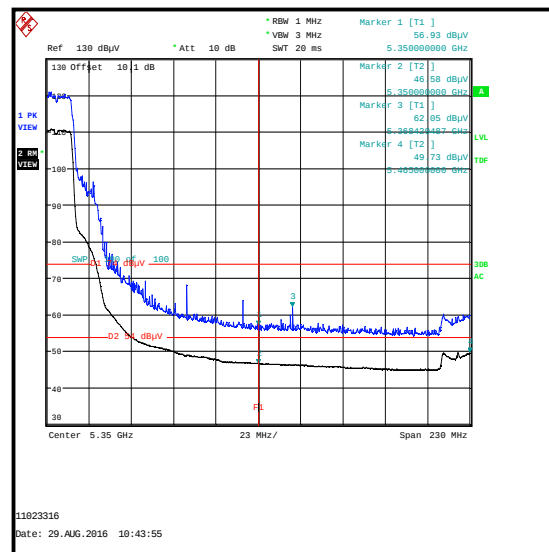
Upper Band Edge Peak & Average Measurement

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5149.679	68.3	74.0	5.7	Complied
5150	65.9	74.0	8.1	Complied
5350	56.9	74.0	17.1	Complied
5368.429	62.1	74.0	11.9	Complied

Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	50.0	54.0	4.0	Complied
5350	46.6	54.0	7.4	Complied

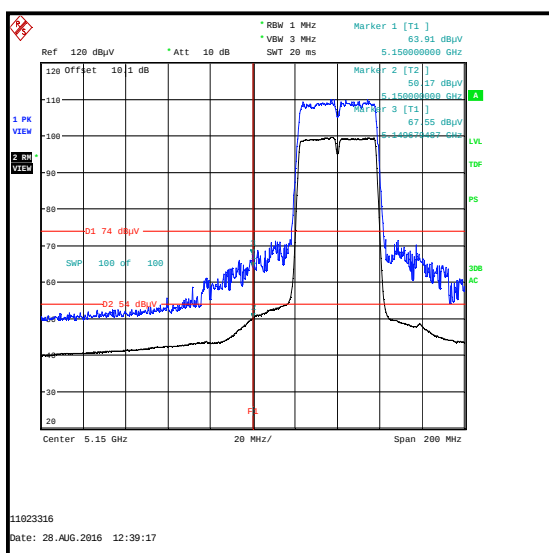
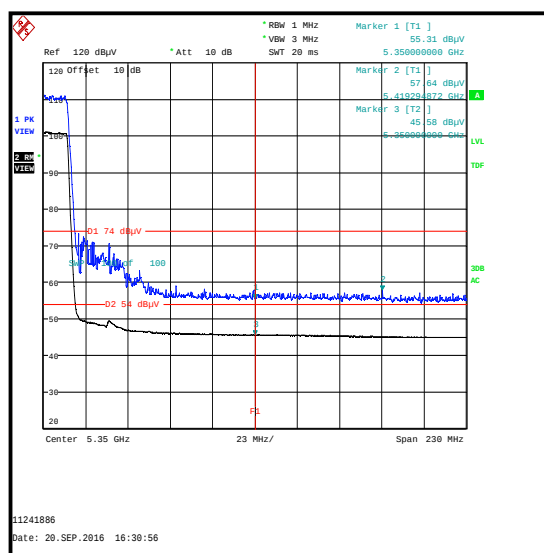
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5149.678	67.6	74.0	6.4	Complied
5150	63.9	74.0	10.1	Complied
5350	55.3	74.0	18.7	Complied
5419.295	57.6	74.0	16.4	Complied

Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	50.2	0.1	50.3	54.0	3.7	Complied
5350	45.6	0.1	45.7	54.0	8.3	Complied

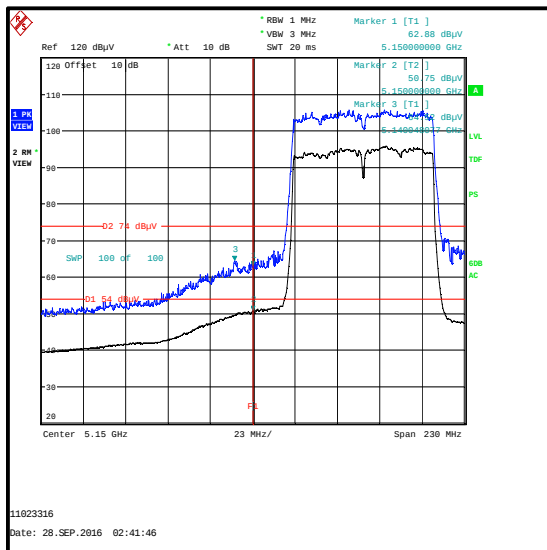
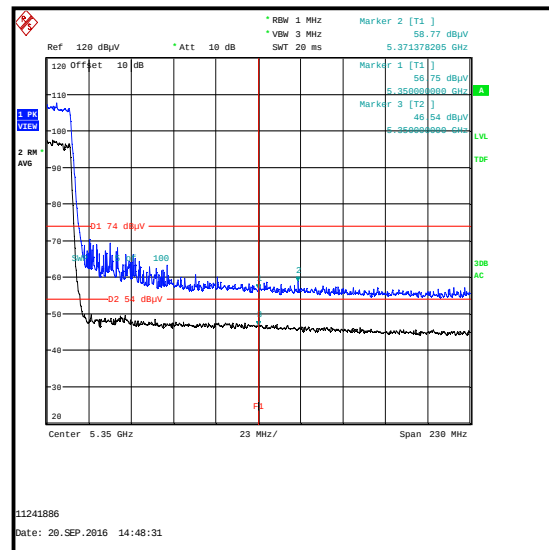
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5140.048	64.5	74.0	9.5	Complied
5150	62.9	74.0	11.1	Complied
5350	56.8	74.0	17.2	Complied
5371.378	58.8	74.0	15.2	Complied

Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	50.8	0.1	50.9	54.0	3.1	Complied
5350	46.5	0.1	46.6	54.0	7.4	Complied

**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band)**Test Summary:**

Test Engineers:	Nick Steele, Stuart Martin & Georgios Vrezas	Test Dates:	09 August 2016 to 28 September 2016
Test Sample Serial Numbers:	C02S2003HH5Y, C02S200EHH5Q & C02S200CHH5W		

FCC Reference:	Parts 15.407(b)(2),(7), 15.205 & 15.209(a)
Test Method Used:	ANSI C63.10 Section 6.10 & KDB 789033 II.G.

Environmental Conditions:

Temperature (°C):	20 to 25
Relative Humidity (%):	41 to 53

Note(s):

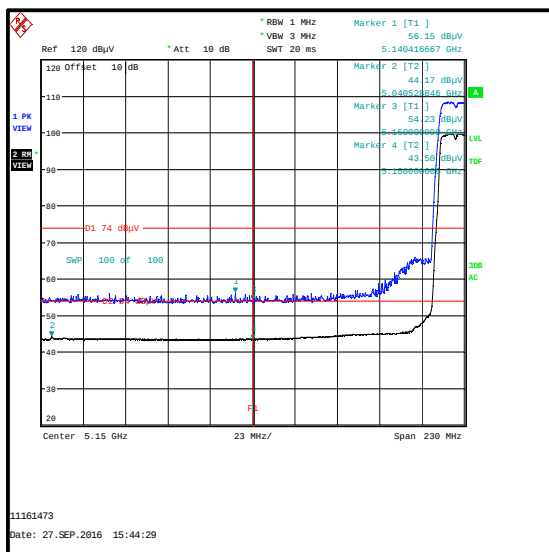
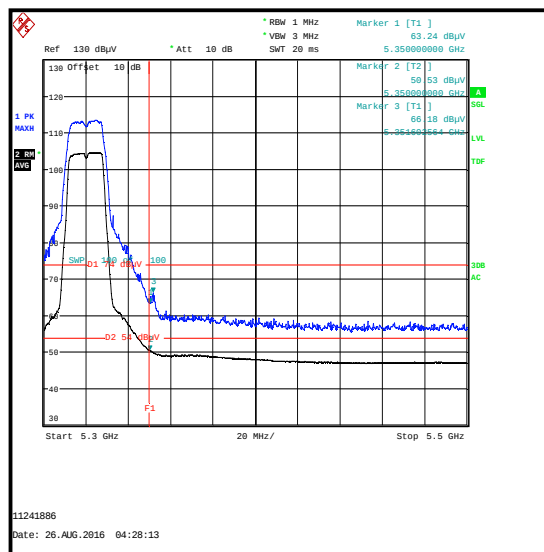
1. Measurements were performed on data rates detailed in section 4.2
2. Lower band edge measurements were performed with the EUT transmitting on the bottom or single channel. Upper band edge measurements were performed with the EUT transmitting on the top or single channel.
3. For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. However, there are restricted bands of operation below the lower band edge at 4.5-5.15 GHz and also above the upper band edge at 5.35-5.46 GHz therefore the provisions of FCC Part 15.205 apply.
4. Field strength measurements using peak and average detectors were performed in the restricted bands below 5.15 GHz and above 5.35 GHz. Field strength and EIRP results were found to be compliant with the restricted band limits and Part 15.407 out-of-band limits.
5. In accordance with KDB 789033 Section II.G.6.c) Method AD (vii), for average measurements, data rates where the EUT was transmitting <98% duty cycle, the duty cycle correction factor calculated in section 5.2.4 was added to the measured result.
6. Radiated band edge measurements were performed under different UL VS LTD job numbers. The job number appears on the bottom left of the result plots.

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11a SISO / 6 Mbps / Port 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5140.417	56.2	74.0	17.8	Complied
5150	54.2	74.0	19.8	Complied
5350	63.2	74.0	10.8	Complied
5351.603	66.2	74.0	7.8	Complied

Results: 802.11a SISO / 6 Mbps / Port 3 / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.529	44.2	54.0	9.8	Complied
5150	43.5	54.0	10.5	Complied
5350	50.5	54.0	3.5	Complied

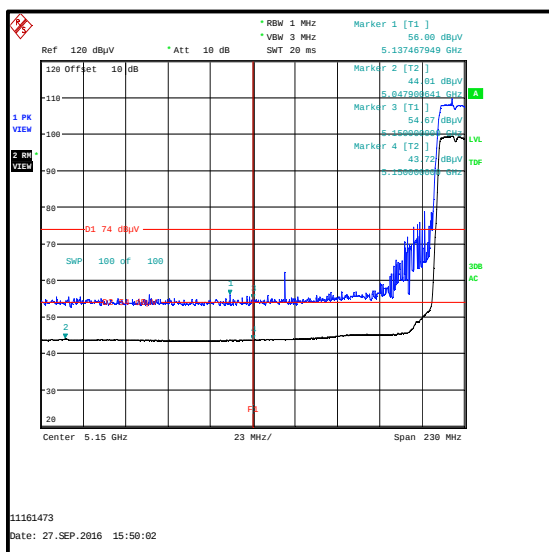
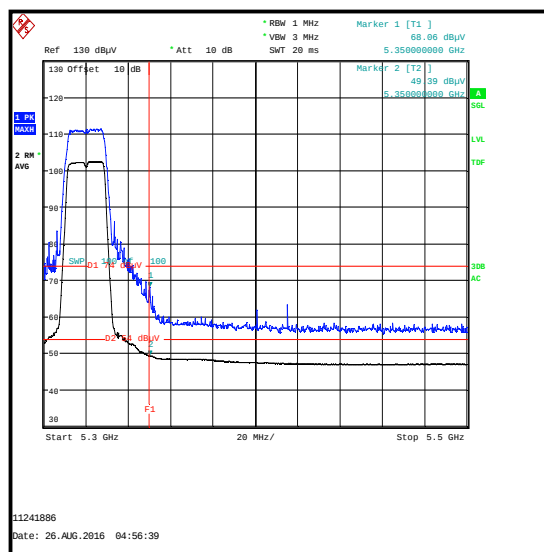
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT20 / SISO / MCS0 / Port 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5137.468	56.0	74.0	18.0	Complied
5150	54.7	74.0	19.3	Complied
5350	68.1	74.0	5.9	Complied

Results: 802.11n / HT20 / SISO / MCS0 / Port 3 / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5047.901	44.0	54.0	10.0	Complied
5150	43.7	54.0	10.3	Complied
5350	49.4	54.0	4.6	Complied

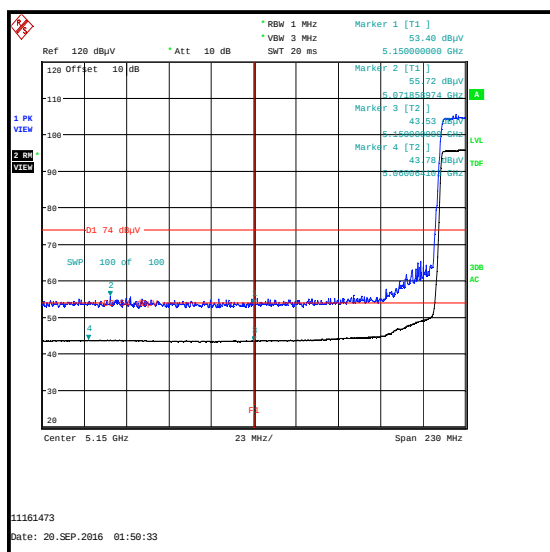
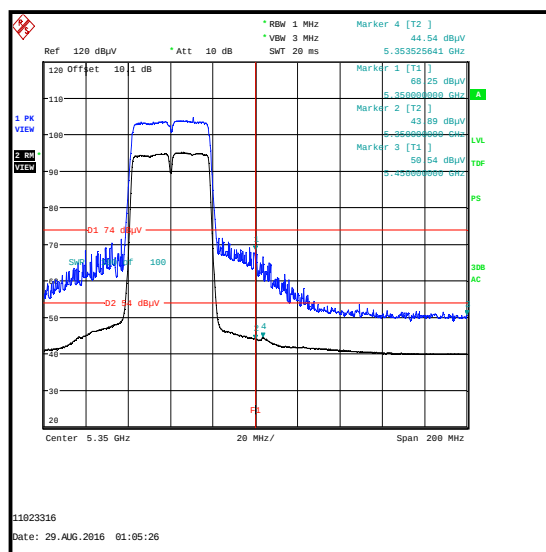
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / SISO / MCS0 / Port 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5071.859	55.7	74.0	18.3	Complied
5150	53.4	74.0	20.6	Complied
5350	68.3	74.0	5.7	Complied

Results: 802.11n / HT40 / SISO / MCS0 / Port 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5060.064	43.8	0.1	43.9	54.0	10.1	Complied
5150	43.5	0.1	43.6	54.0	10.4	Complied
5350	43.9	0.1	44.0	54.0	10.0	Complied
5353.526	44.5	0.1	44.6	54.0	9.4	Complied

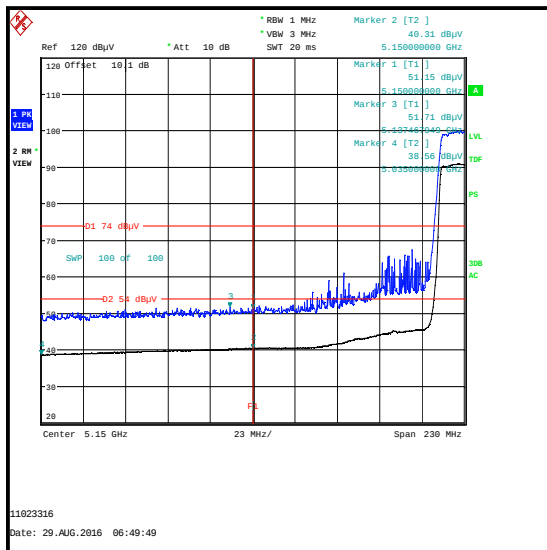
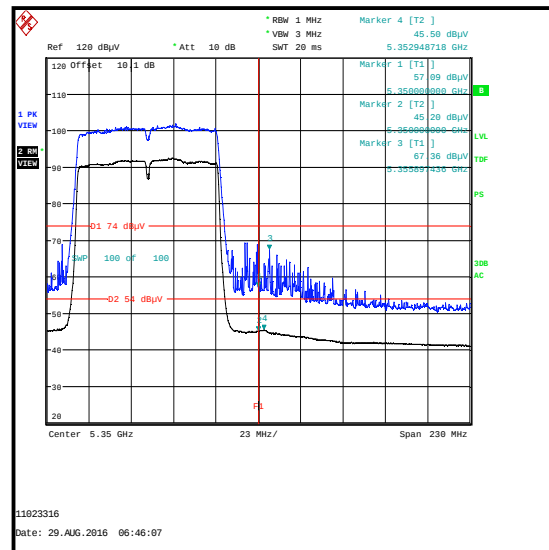
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11ac / VHT80 / SISO / MCS0 / Port 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5137.468	51.7	74.0	22.3	Complied
5150	51.2	74.0	22.8	Complied
5350	57.1	74.0	16.9	Complied
5355.897	67.4	74.0	6.6	Complied

Results: 802.11ac / VHT80 / SISO / MCS0 / Port 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	40.3	0.1	40.4	54.0	13.6	Complied
5350	45.2	0.1	45.3	54.0	8.7	Complied
5352.949	45.5	0.1	45.6	54.0	8.4	Complied

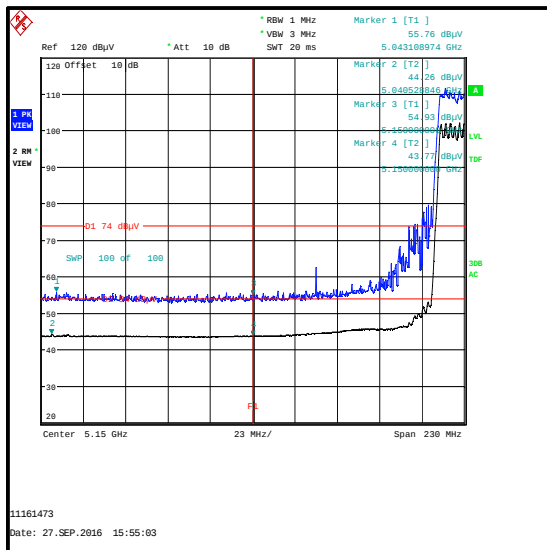
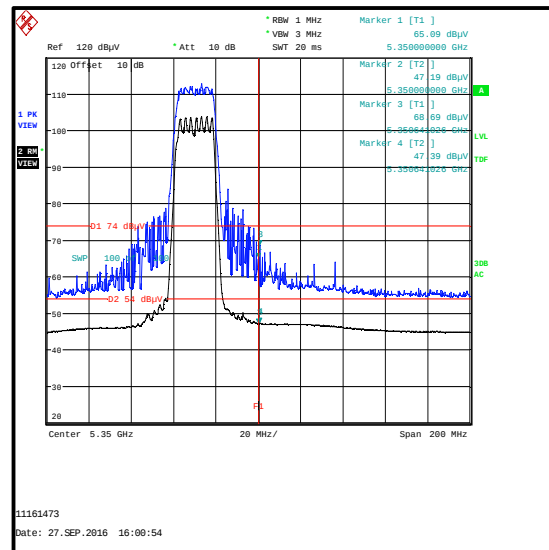
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5043.109	55.8	74.0	18.2	Complied
5150	54.9	74.0	19.1	Complied
5350	65.1	74.0	8.9	Complied
5350.641	68.7	74.0	5.3	Complied

Results: 802.11n / HT20 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5040.529	44.3	54.0	9.7	Complied
5150	43.8	54.0	10.2	Complied
5350	47.2	54.0	6.8	Complied
5350.641	47.4	54.0	6.6	Complied

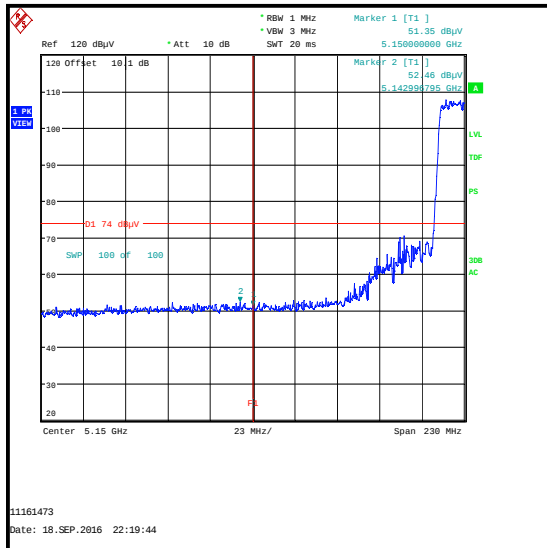
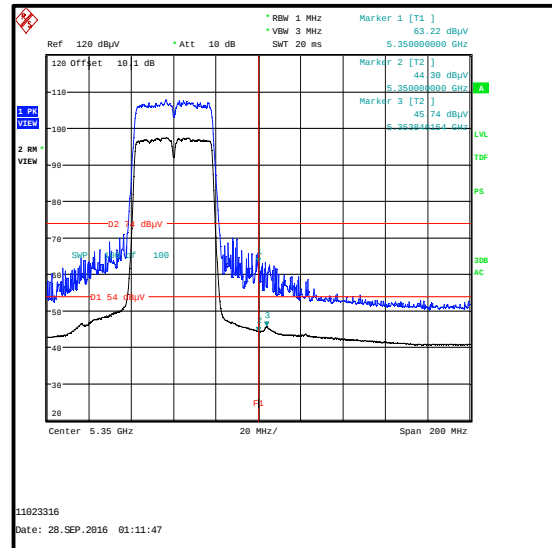
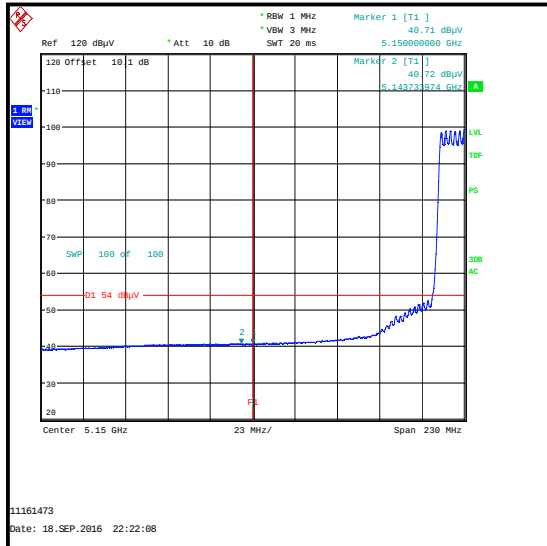
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5142.997	52.5	74.0	21.5	Complied
5150	51.4	74.0	22.6	Complied
5350	63.2	74.0	10.8	Complied

Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5143.734	40.7	0.1	40.8	54.0	13.2	Complied
5150	40.7	0.1	40.8	54.0	13.2	Complied
5350	44.3	0.1	44.4	54.0	9.6	Complied
5353.846	45.7	0.1	45.8	54.0	8.2	Complied

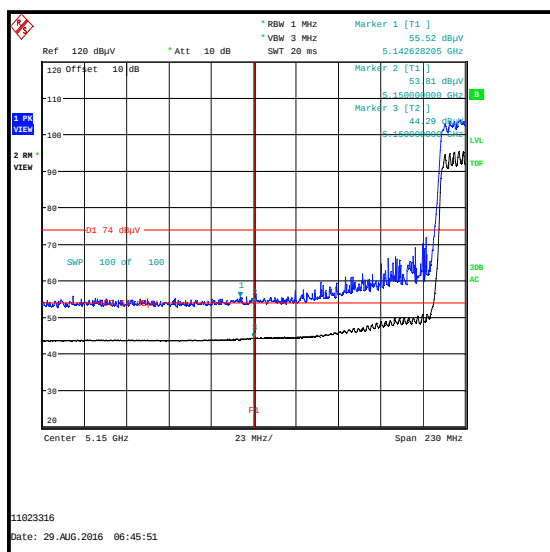
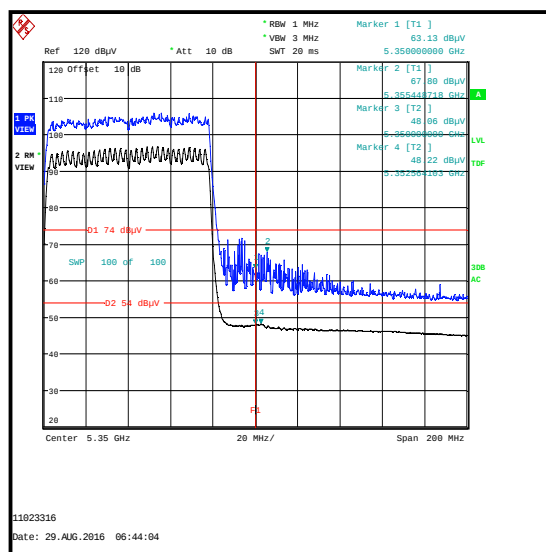
Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx CDD / MCS0 / Ports 1, 3****Lower Band Edge Peak Measurement****Upper Band Edge Peak & Average Measurement****Lower Band Edge Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11ac / VHT80 / MIMO / 2Tx CDD / MCS0x1 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5142.628	55.5	74.0	18.5	Complied
5150	53.8	74.0	20.2	Complied
5350	63.3	74.0	10.7	Complied
5355.449	67.8	74.0	6.2	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx CDD / MCS0x1 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	44.3	0.1	44.4	54.0	9.6	Complied
5350	48.1	0.1	48.2	54.0	5.8	Complied
5352.564	48.2	0.1	48.3	54.0	5.7	Complied

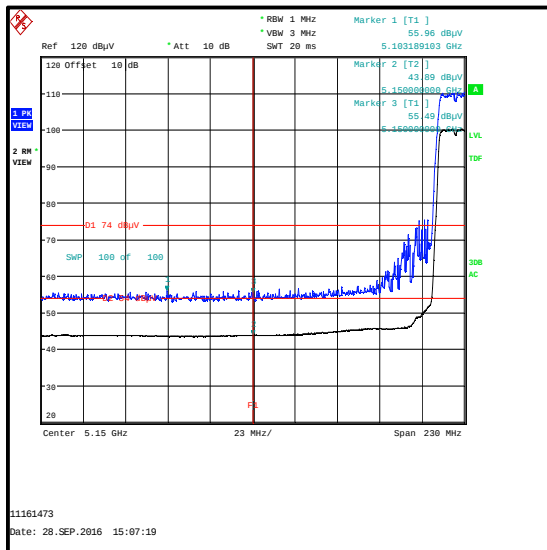
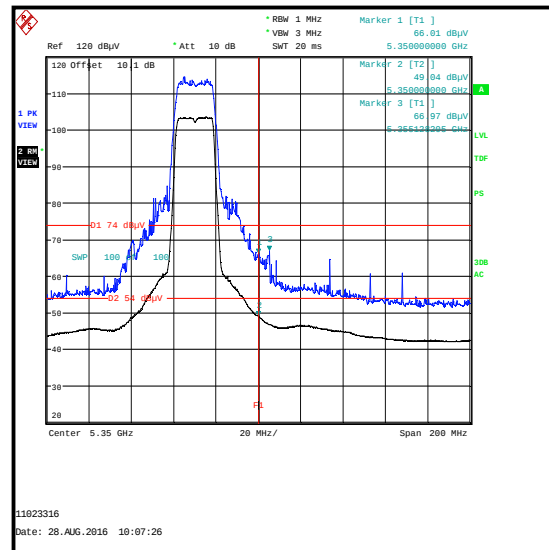
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5103.189	56.0	74.0	18.0	Complied
5150	55.5	74.0	18.5	Complied
5350	66.0	74.0	8.0	Complied
5355.128	67.0	74.0	7.0	Complied

Results: 802.11n / HT20 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	44.0	54.0	10.0	Complied
5350	49.0	54.0	5.0	Complied

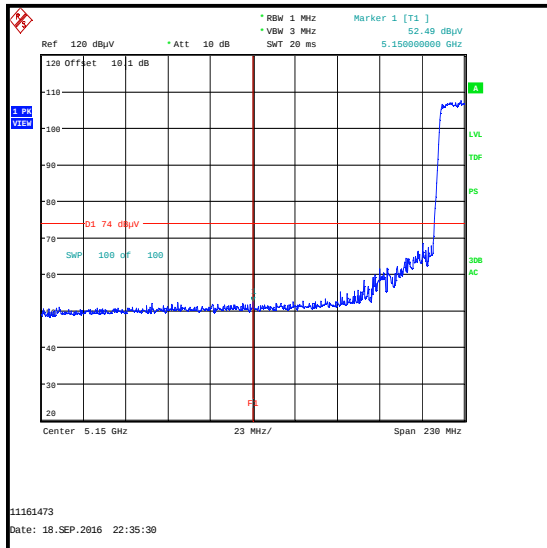
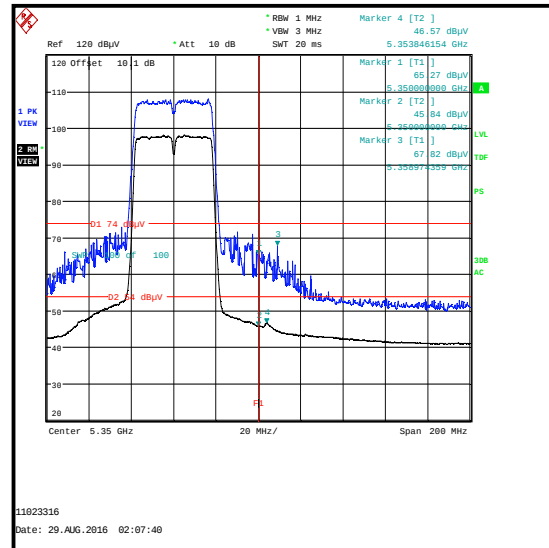
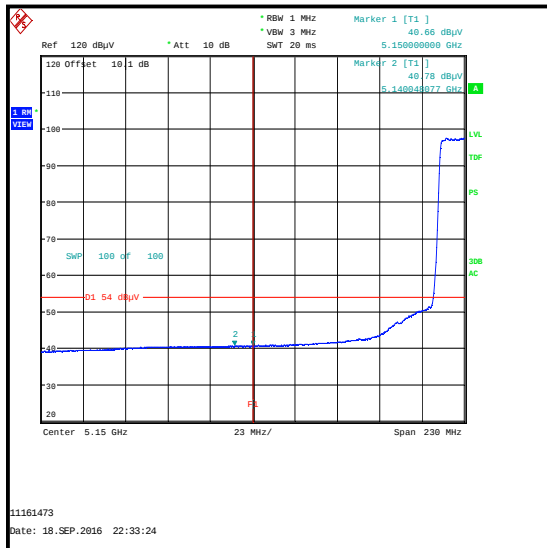
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	52.5	74.0	21.5	Complied
5350	65.3	74.0	8.7	Complied
5358.974	67.8	74.0	6.2	Complied

Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5140.048	40.8	0.1	40.9	54.0	13.1	Complied
5150	40.7	0.1	40.8	54.0	13.2	Complied
5350	45.8	0.1	45.9	54.0	8.1	Complied
5353.846	46.6	0.1	46.7	54.0	7.3	Complied

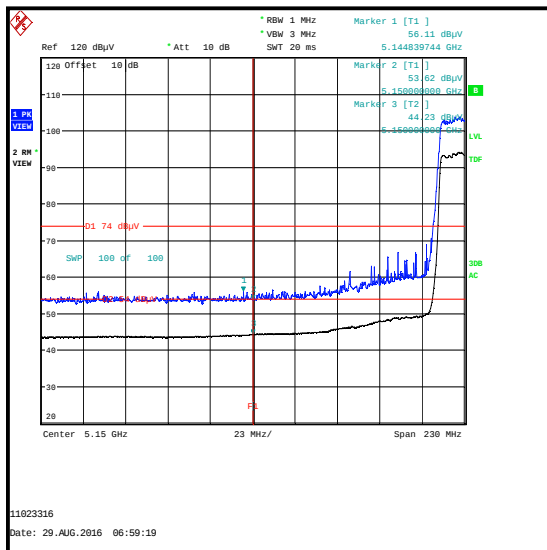
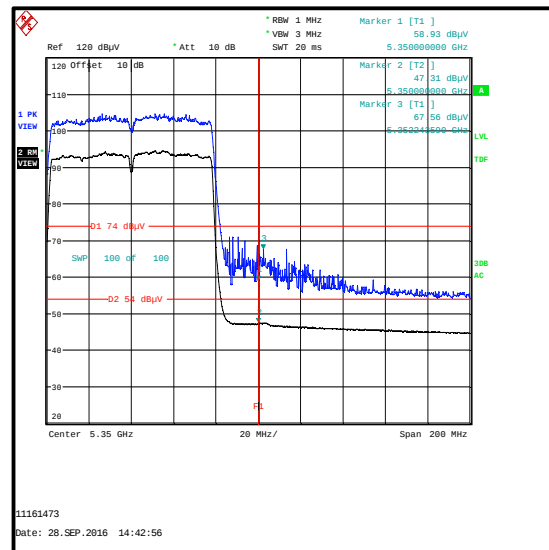
Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 2Tx STBC / MCS0 / Ports 1, 3****Lower Band Edge Peak Measurement****Upper Band Edge Peak & Average Measurement****Lower Band Edge Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11ac / VHT80 / MIMO / 2Tx STBC / MCS0x1 / Ports 1, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5144.840	56.1	74.0	17.9	Complied
5150	53.6	74.0	20.4	Complied
5350	58.9	74.0	15.1	Complied
5352.244	67.6	74.0	6.4	Complied

Results: 802.11ac / VHT80 / MIMO / 2Tx STBC / MCS0x1 / Ports 1, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	44.2	0.1	44.3	54.0	9.7	Complied
5350	47.3	0.1	47.4	54.0	6.6	Complied

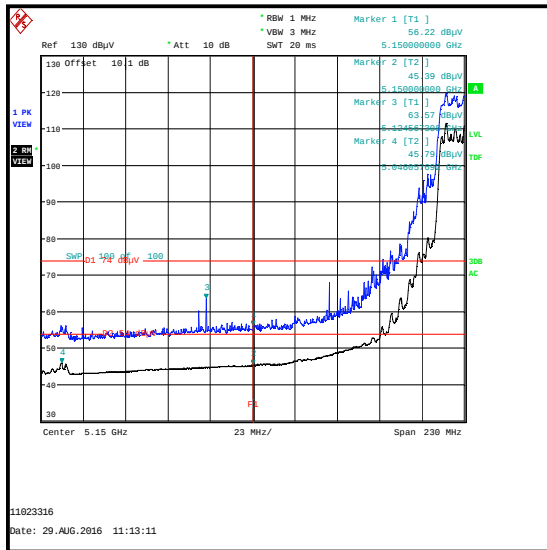
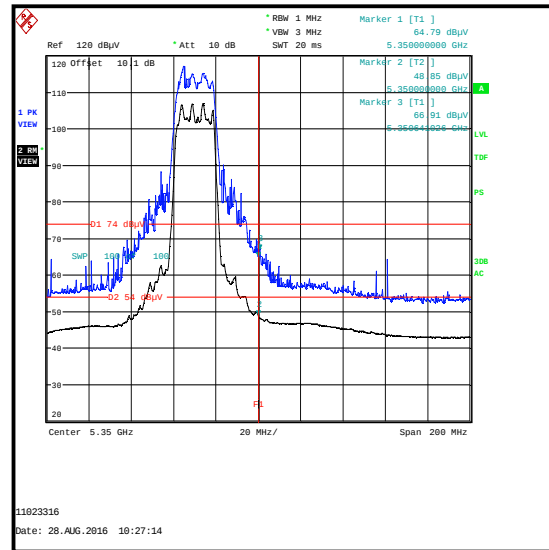
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5124.567	63.6	74.0	10.4	Complied
5150	56.2	74.0	17.8	Complied
5350	64.8	74.0	9.2	Complied
5350.641	66.9	74.0	7.1	Complied

Results: 802.11n / HT20 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5046.058	45.8	54.0	8.2	Complied
5150	45.4	54.0	8.6	Complied
5350	48.9	54.0	5.1	Complied

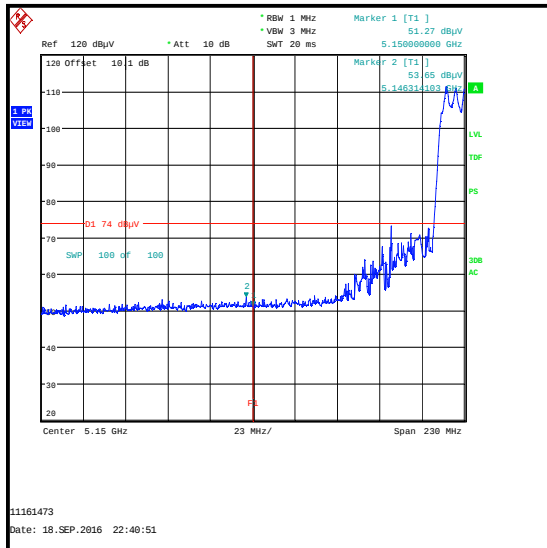
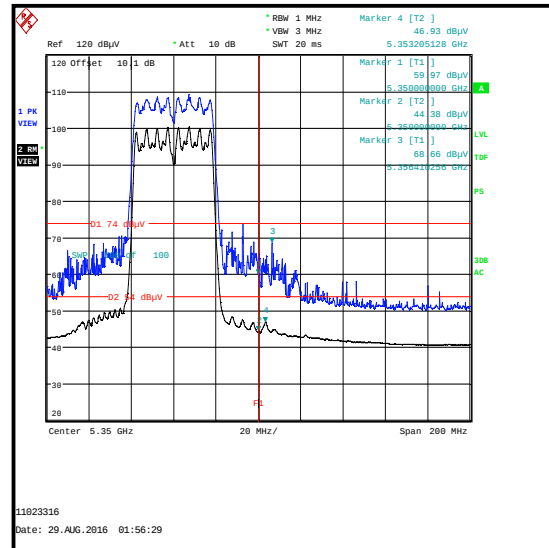
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5146.314	53.7	74.0	20.3	Complied
5150	51.3	74.0	22.7	Complied
5350	60.0	74.0	14.0	Complied
5356.410	68.7	74.0	5.3	Complied

Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	41.4	0.1	41.5	54.0	12.5	Complied
5350	44.4	0.1	44.5	54.0	9.5	Complied
5353.205	46.9	0.1	47.0	54.0	7.0	Complied

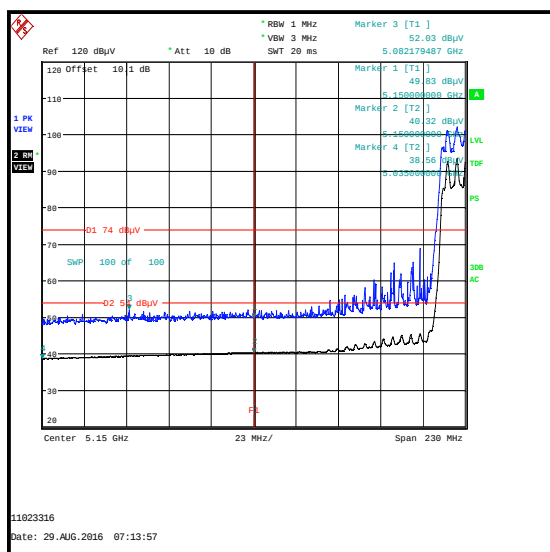
Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx CDD / MCS0 / Ports 1, 2, 3****Lower Band Edge Peak Measurement****Upper Band Edge Peak & Average Measurement****Lower Band Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1 / Ports 1, 2, 3 / Peak**

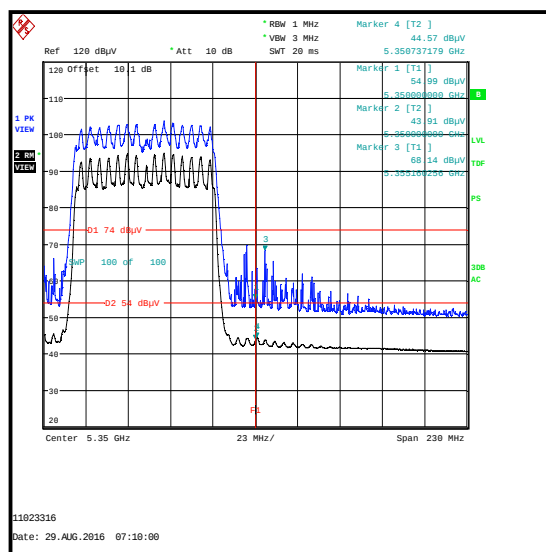
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5082.179	52.0	74.0	22.0	Complied
5150	49.8	74.0	24.2	Complied
5350	55.0	74.0	19.0	Complied
5355.160	68.1	74.0	5.9	Complied

Results: 802.11ac / VHT80 / MIMO / 3Tx CDD / MCS0x1 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	40.3	0.1	40.4	54.0	13.6	Complied
5350	43.9	0.1	44.0	54.0	10.0	Complied
5350.737	44.6	0.1	44.7	54.0	9.3	Complied



Lower Band Edge Peak & Average Measurement



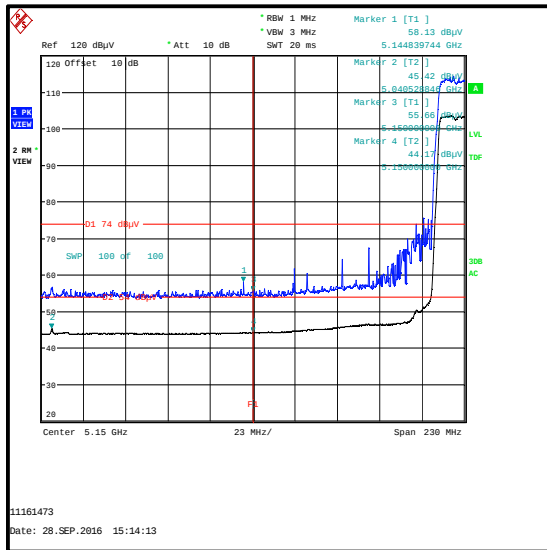
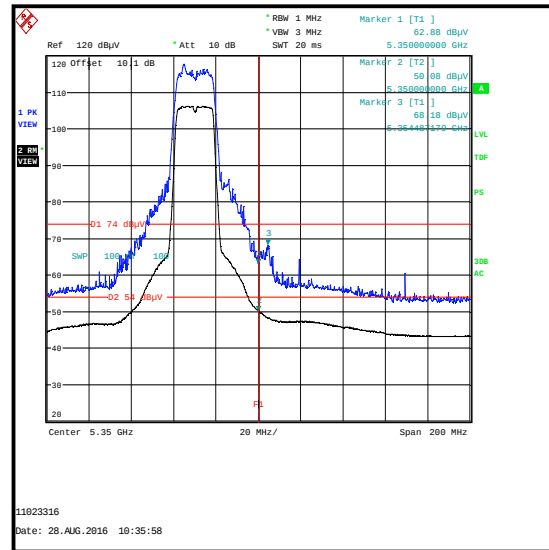
Upper Band Edge Peak & Average Measurement

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5144.840	58.1	74.0	15.9	Complied
5150	55.7	74.0	18.3	Complied
5350	62.9	74.0	11.1	Complied
5354.487	68.2	74.0	5.8	Complied

Results: 802.11n / HT20 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5040.529	45.4	54.0	8.6	Complied
5150	44.2	54.0	9.8	Complied
5350	50.1	54.0	3.9	Complied

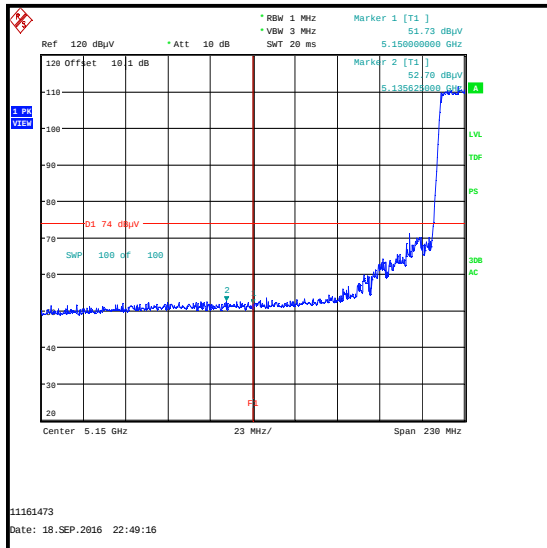
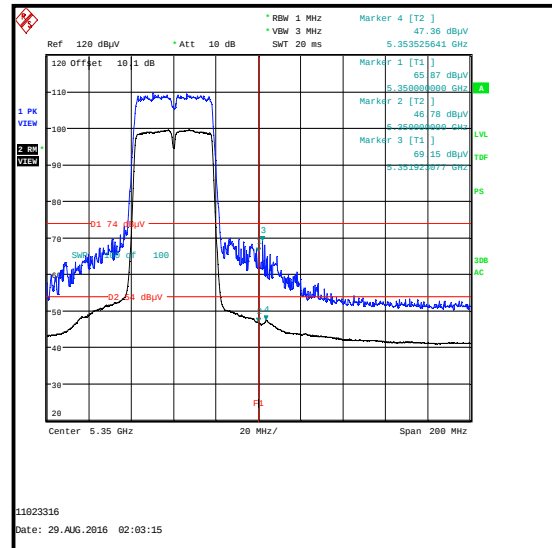
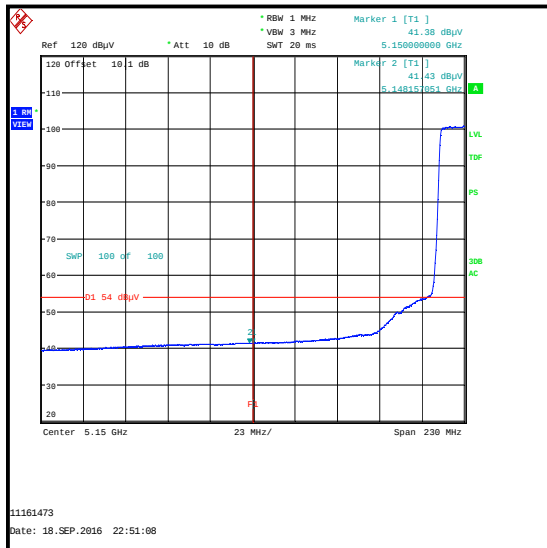
**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5135.625	52.7	74.0	21.3	Complied
5150	51.7	74.0	22.3	Complied
5350	65.9	74.0	8.1	Complied
5351.923	69.2	74.0	4.8	Complied

Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3 / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5148.157	41.4	0.1	41.5	54.0	12.5	Complied
5150	41.4	0.1	41.5	54.0	12.5	Complied
5350	46.8	0.1	46.9	54.0	7.1	Complied
5353.526	47.4	0.1	47.5	54.0	6.5	Complied

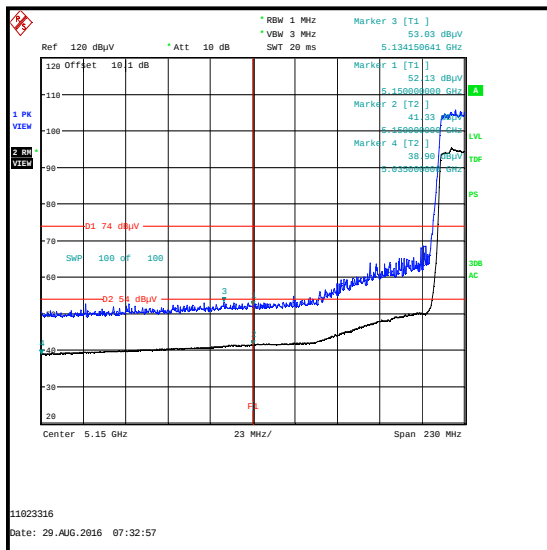
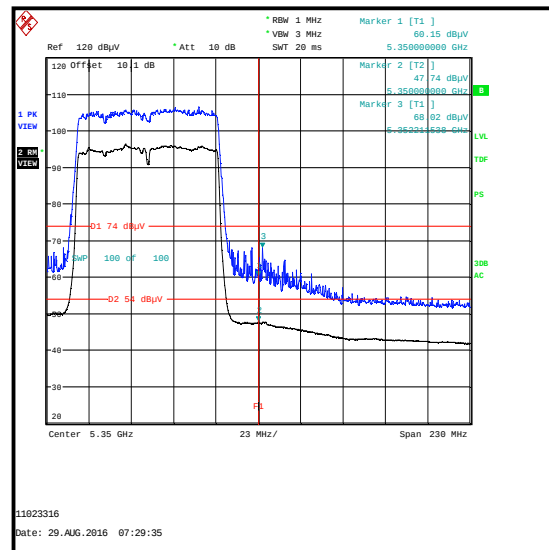
Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / HT40 / MIMO / 3Tx STBC / MCS0 / Ports 1, 2, 3****Lower Band Edge Peak Measurement****Upper Band Edge Peak & Average Measurement****Lower Band Edge Average Measurement**

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 2, 3 / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5134.151	53.0	74.0	21.0	Complied
5150	52.1	74.0	21.9	Complied
5350	60.2	74.0	13.8	Complied
5352.212	68.0	74.0	6.0	Complied

Results: 802.11ac / VHT80 / MIMO / 3Tx STBC / MCS0x1 / Ports 1, 3 / Average

Frequency (MHz)	Level (dB μ V/m)	Duty Cycle correction (dB)	Corrected Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	41.3	0.1	41.4	54.0	12.6	Complied
5350	47.7	0.1	47.8	54.0	6.2	Complied

**Lower Band Edge Peak & Average Measurement****Upper Band Edge Peak & Average Measurement**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band)**Test Summary:**

Test Engineers:	Nick Steele, Stuart Martin & Georgios Vrezas	Test Dates:	27 August 2016 to 28 September 2016
Test Sample Serial Number:	C02S2003HH5Y, C02S200EHH5Q & C02S200CHH5W		

FCC Reference:	Parts 15.407(b)(3),(7), 15.205 & 15.209(a)
Test Method Used:	ANSI C63.10 Section 6.10 & KDB 789033 II.G.

Environmental Conditions:

Temperature (°C):	20 to 25
Relative Humidity (%):	41 to 53

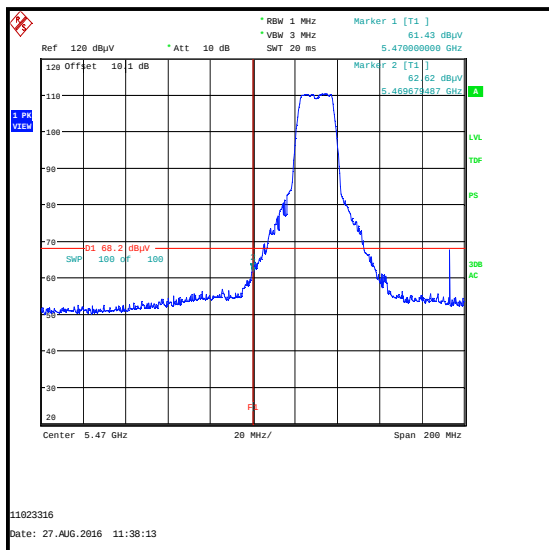
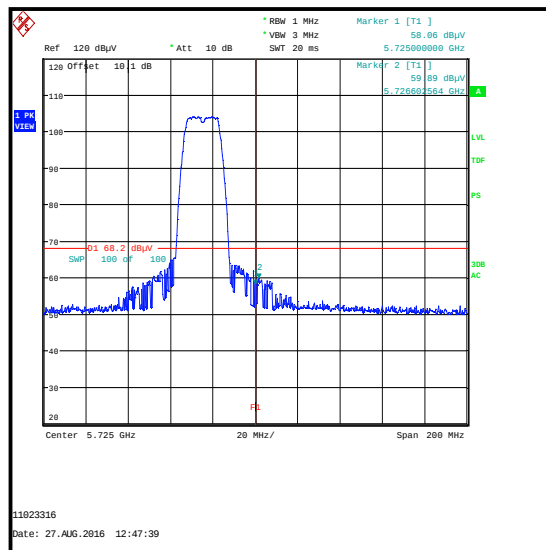
Note(s):

1. Measurements were performed on data rates detailed in section 4.2
2. Lower band edge measurements were performed with the EUT transmitting on the bottom channel. Upper band edge measurements were performed with the EUT transmitting on the top channel.
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 EIRP of -27 dBm/MHz. However, there are restricted bands of operation below the lower band edge at 4.5-5.15 GHz and also at 5.35-5.46 GHz therefore the provisions of FCC Part 15.205 apply.
4. For completeness, results are also shown as EIRP in dBm and also as field strength in dBμV/m. Measured field strength was converted to EIRP in accordance with KDB 789033 II.G.2.d.(iii) using a conversion factor of 95.2.
5. Radiated band edge measurements were performed under different UL VS LTD job numbers. The job number appears on the bottom left of the result plots.

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11a SISO / 6 Mbps / Port 2 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.679	-32.6	-27.0	5.6	Complied
5470	-33.8	-27.0	6.8	Complied
5725	-37.1	-27.0	10.1	Complied
5726.603	-35.3	-27.0	8.3	Complied

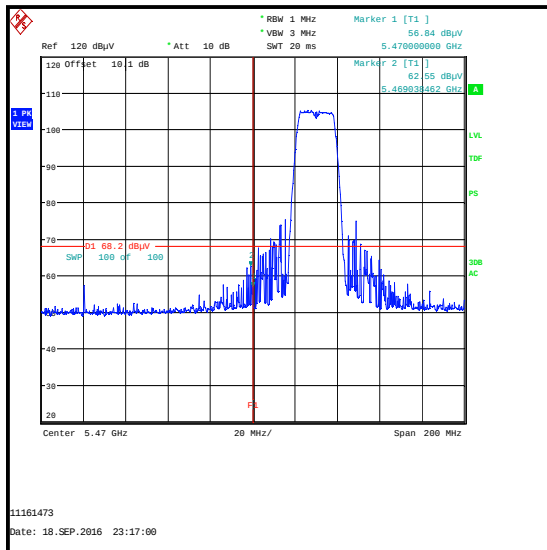
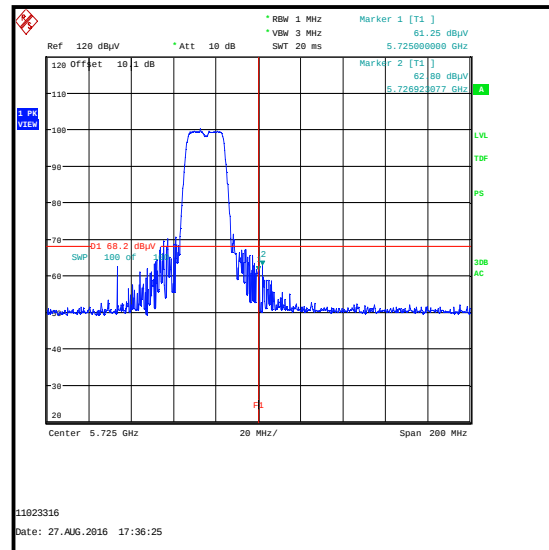
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.679	62.6	68.2	5.6	Complied
5470	61.4	68.2	6.8	Complied
5725	58.1	68.2	10.1	Complied
5726.603	59.9	68.2	8.3	Complied

**Lower Band Edge Measurement****Upper Band Edge Measurement**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / HT20 / SISO / MCS0 / Port 2**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.038	-32.6	-27.0	5.6	Complied
5470	-38.4	-27.0	11.4	Complied
5725	-33.9	-27.0	6.9	Complied
5726.923	-32.4	-27.0	5.4	Complied

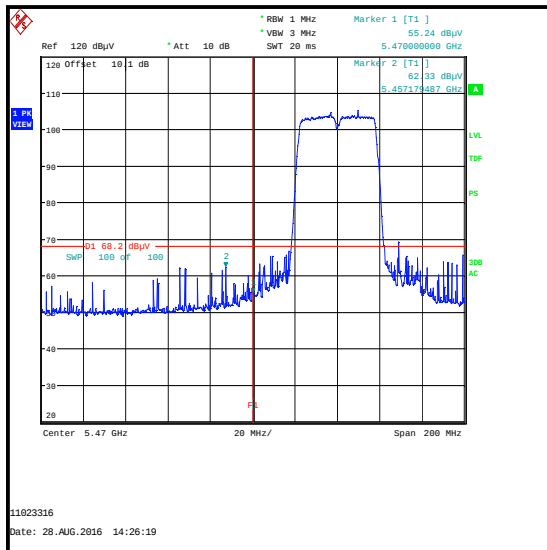
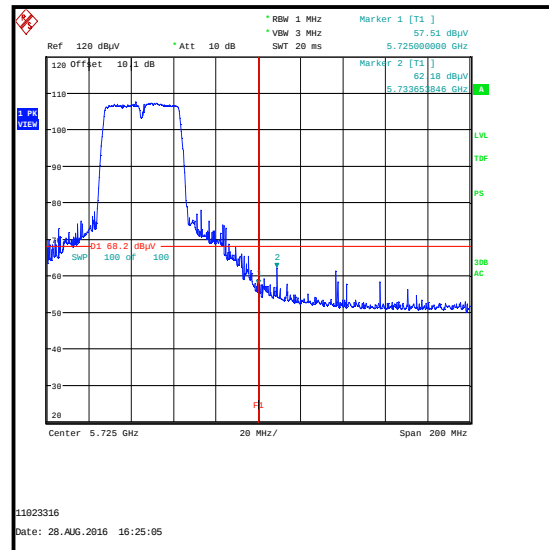
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5469.038	62.6	68.2	5.6	Complied
5470	56.8	68.2	11.4	Complied
5725	61.3	68.2	6.9	Complied
5726.923	62.8	68.2	5.4	Complied

**Lower Band Edge Measurement****Upper Band Edge Measurement**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / HT40 / SISO / MCS0 / Port 2**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5457.179	-32.9	-27.0	5.9	Complied
5470	-40.0	-27.0	13.0	Complied
5725	-37.7	-27.0	10.7	Complied
5733.654	-33.0	-27.0	6.0	Complied

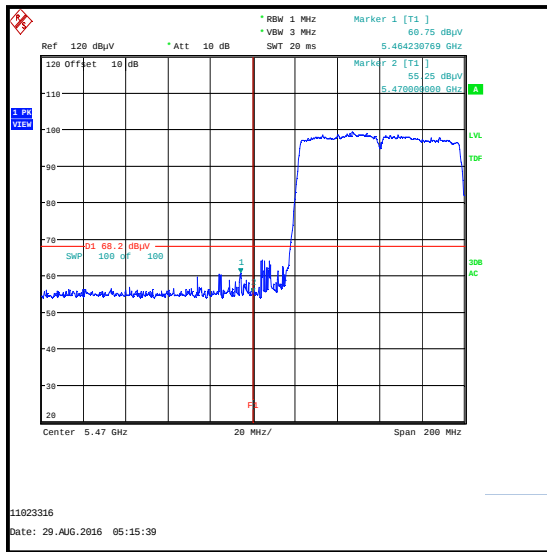
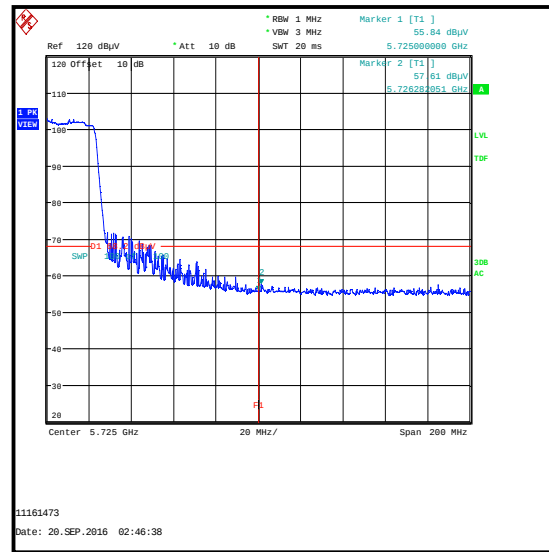
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5457.179	62.3	68.2	5.9	Complied
5470	55.2	68.2	13.0	Complied
5725	57.5	68.2	10.7	Complied
5733.654	62.2	68.2	6.0	Complied

**Lower Band Edge Measurement****Upper Band Edge Measurement**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / VHT80 / SISO / MCS0x1 / Port 2**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5464.231	-34.4	-27.0	7.4	Complied
5470	-39.9	-27.0	12.9	Complied
5725	-39.4	-27.0	12.4	Complied
5726.282	-37.6	-27.0	10.6	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5464.231	60.8	68.2	7.4	Complied
5470	55.3	68.2	12.9	Complied
5725	55.8	68.2	12.4	Complied
5726.282	57.6	68.2	10.6	Complied

**Lower Band Edge Measurement****Upper Band Edge Measurement**