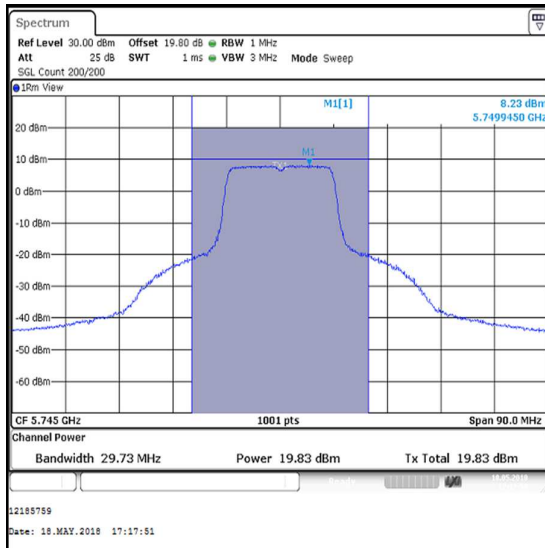
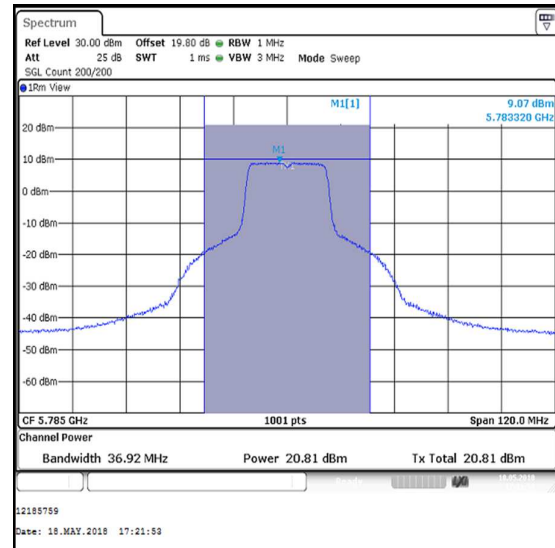
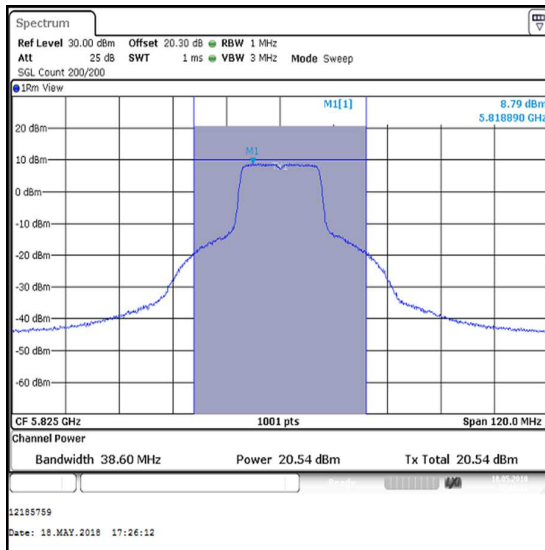
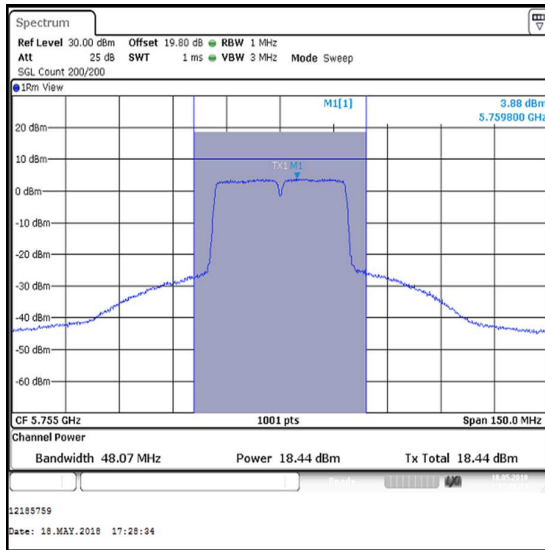
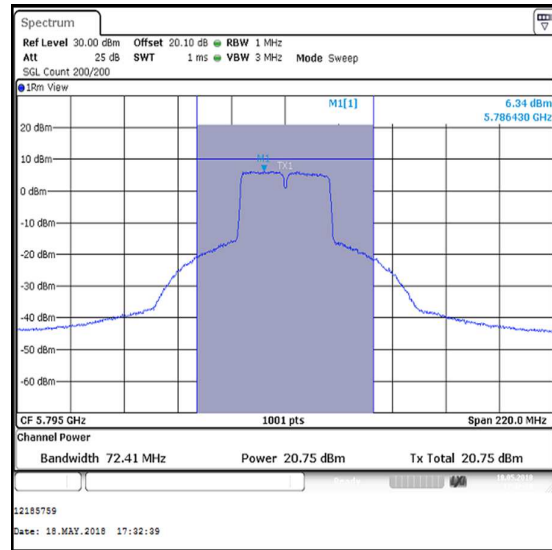


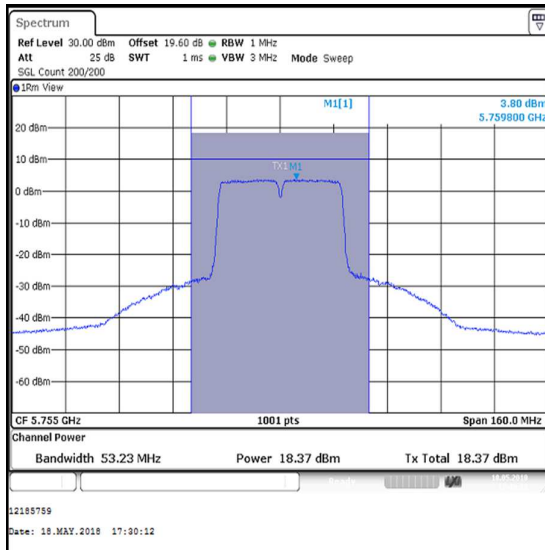
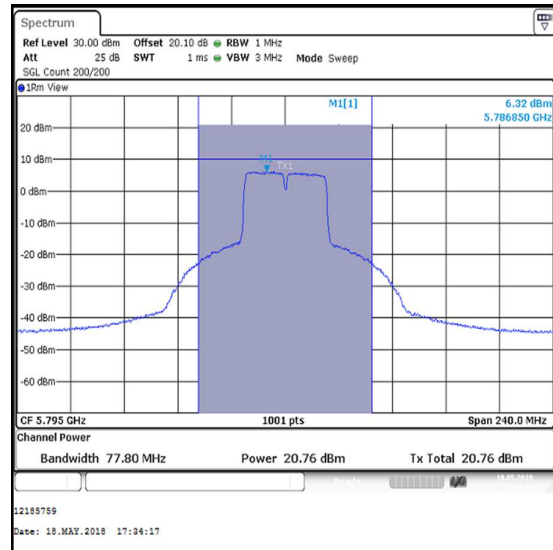
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Core 0****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	18.4	0.1	18.5	18.4	0.1	18.5
Top	5795	20.8	0.1	20.9	20.8	0.1	20.9

Channel	Frequency (MHz)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	18.5	18.5	21.5	30.0	8.5	Complied
Top	5795	20.9	20.9	23.9	30.0	6.1	Complied

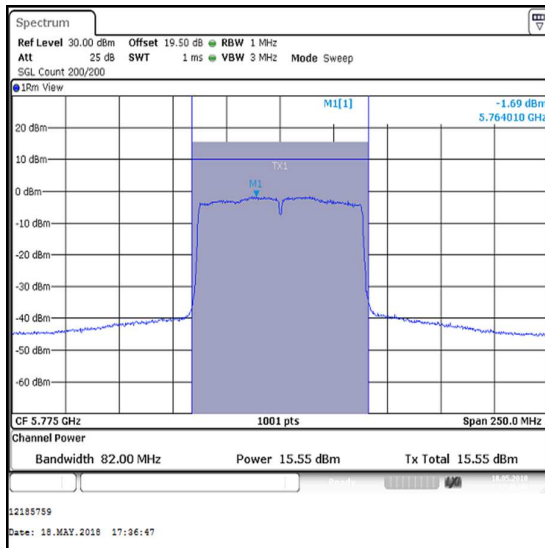
Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Core 1**Bottom Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Core 0****Bottom Channel****Top Channel**

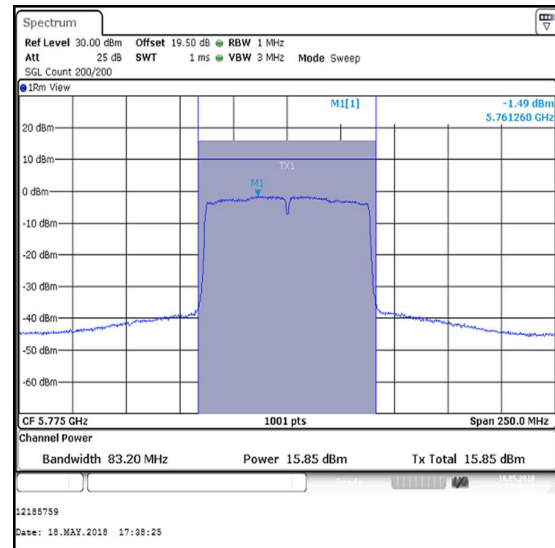
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	15.6	0.2	15.8	15.9	0.2	16.1

Channel	Frequency (MHz)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	15.8	16.1	19.0	30.0	11.0	Complied



Single Channel / Core 1

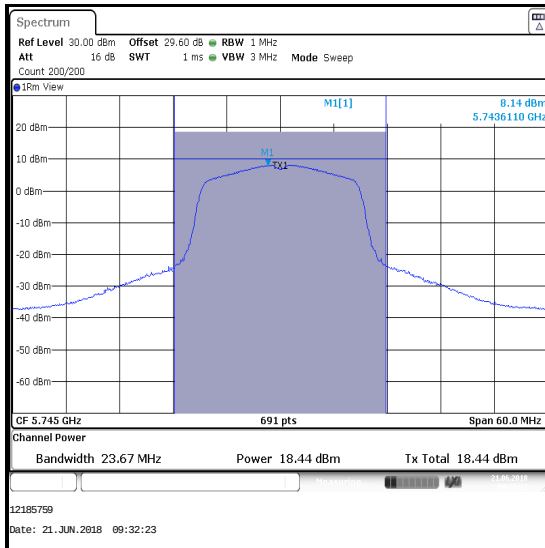
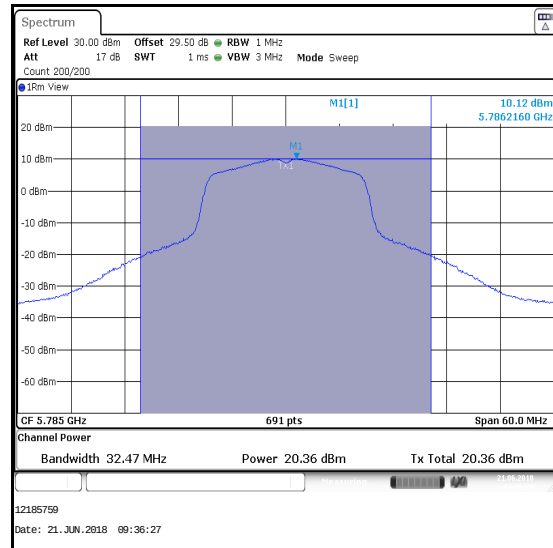
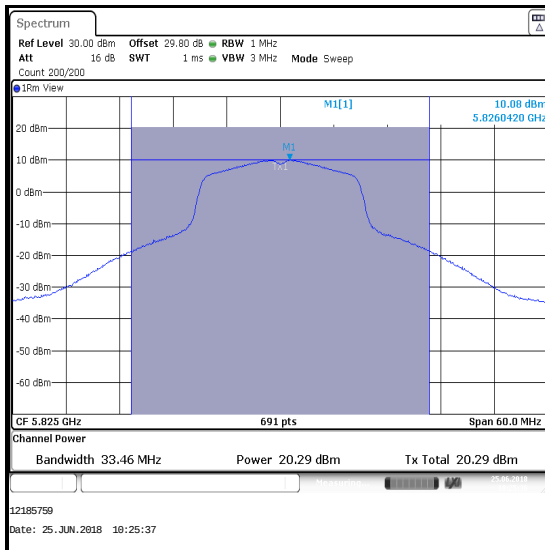


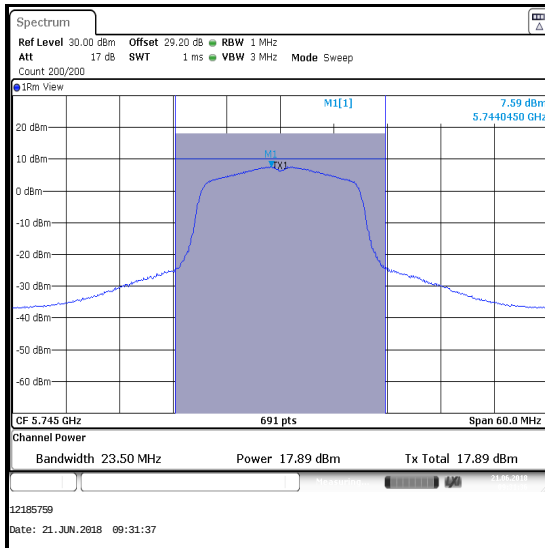
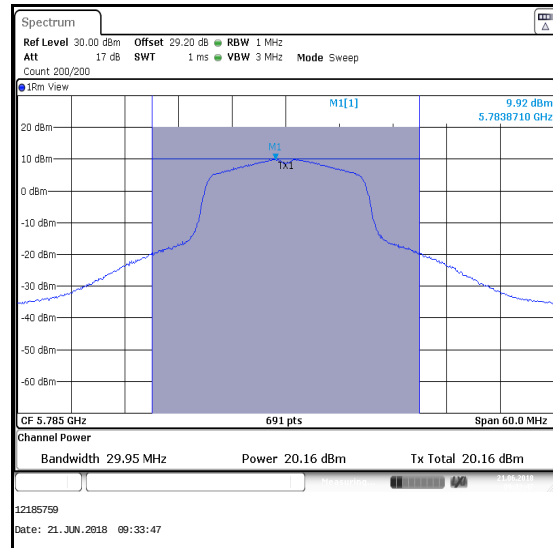
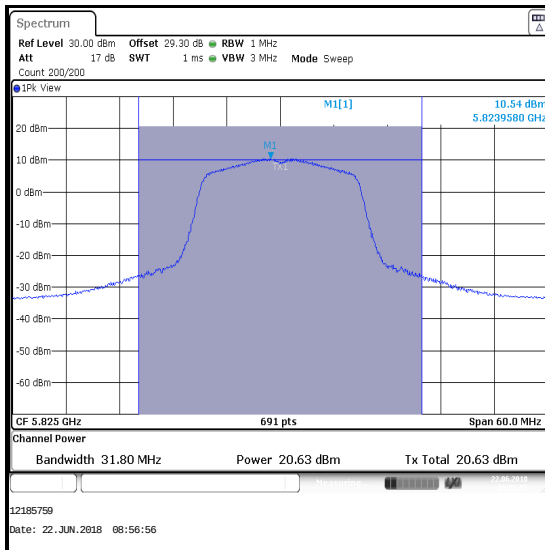
Single Channel / Core 0

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5745	18.4	0.2	18.6	17.9	0.2	18.1
Middle	5785	20.4	0.2	20.6	20.2	0.2	20.4
Top	5825	20.3	0.2	20.5	20.6	0.2	20.8

Channel	Frequency (MHz)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	18.6	18.1	21.4	27.5	6.1	Complied
Middle	5785	20.6	20.4	23.5	27.5	4.0	Complied
Top	5825	20.5	20.8	23.7	27.5	3.8	Complied

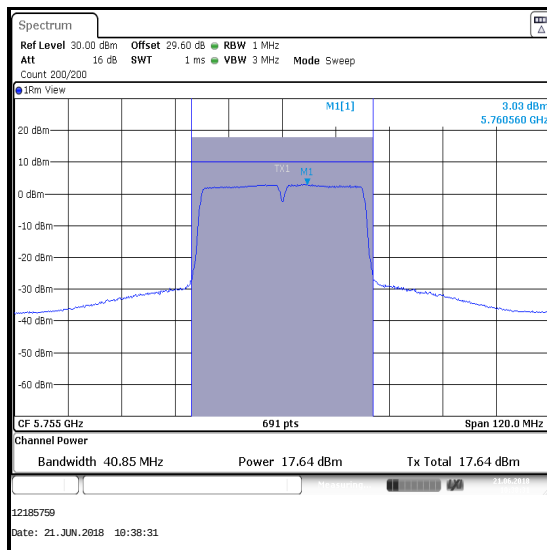
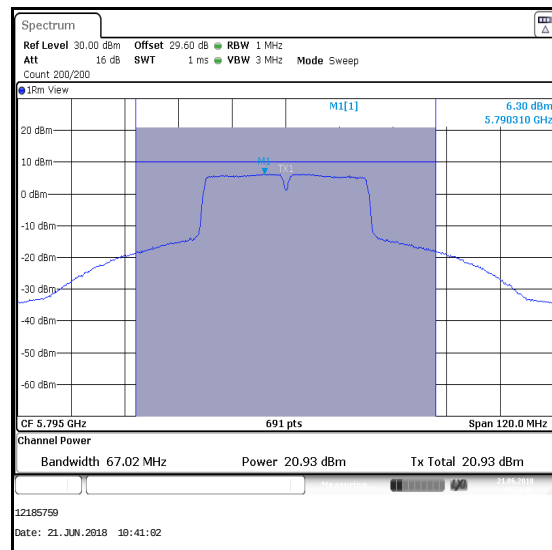
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Core 1****Bottom Channel****Middle Channel****Top Channel**

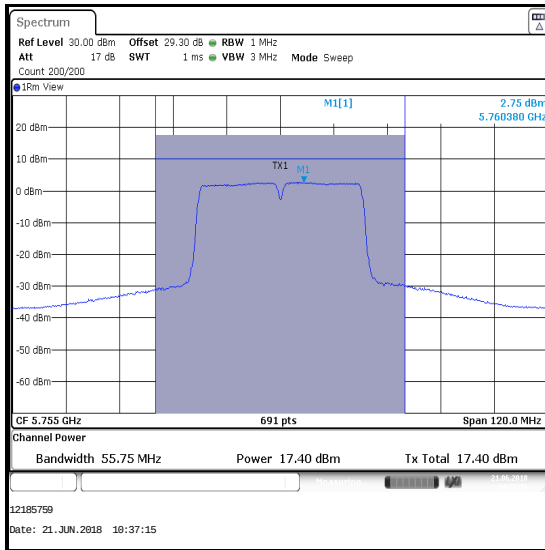
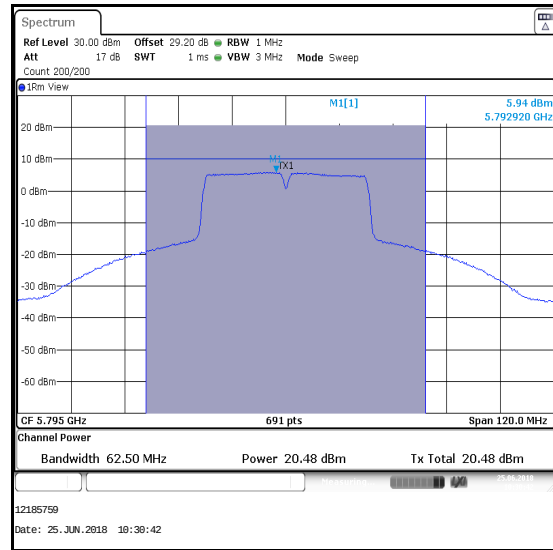
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Core 0****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	17.6	0.2	17.8	17.4	0.2	17.6
Top	5795	20.9	0.2	21.1	20.5	0.2	20.7

Channel	Frequency (MHz)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	17.8	17.6	20.7	27.5	6.8	Complied
Top	5795	21.1	20.7	23.9	27.5	3.6	Complied

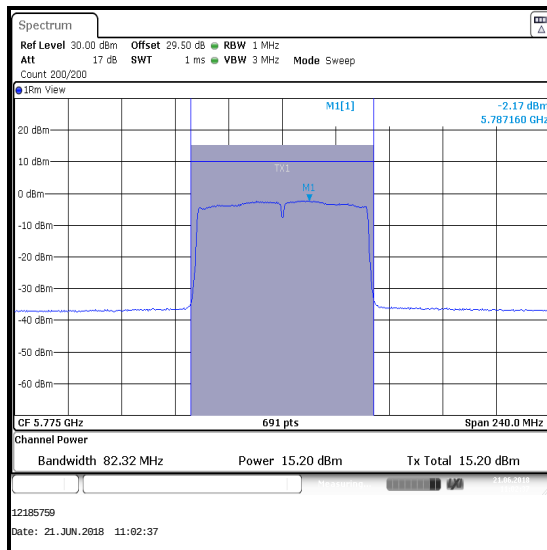
Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Core 1**Bottom Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Core 0****Bottom Channel****Top Channel**

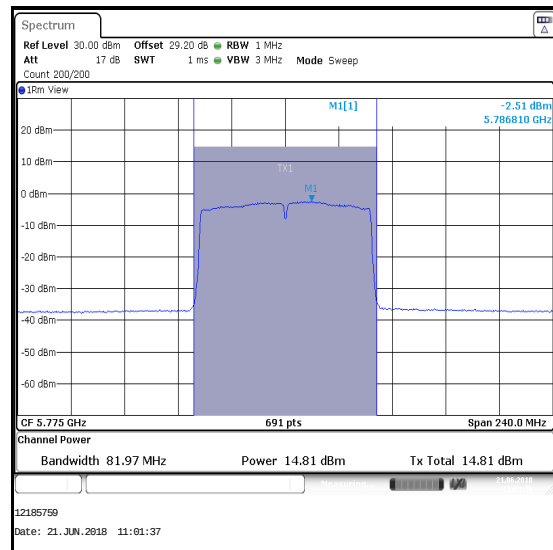
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	15.2	0.2	15.4	14.8	0.2	15.0

Channel	Frequency (MHz)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	15.4	15.0	18.2	27.5	9.3	Complied



Single Channel / Core 1

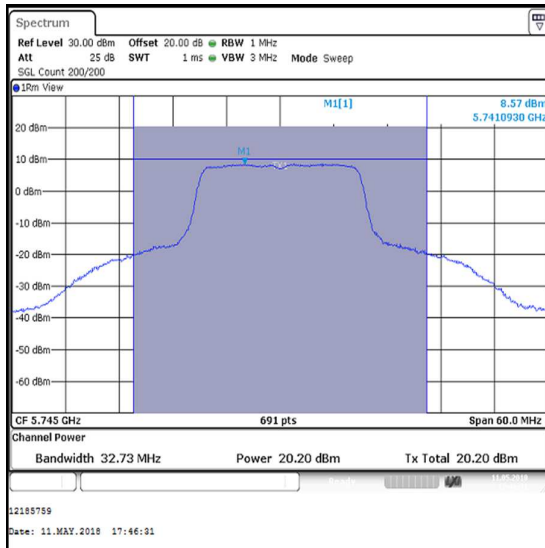
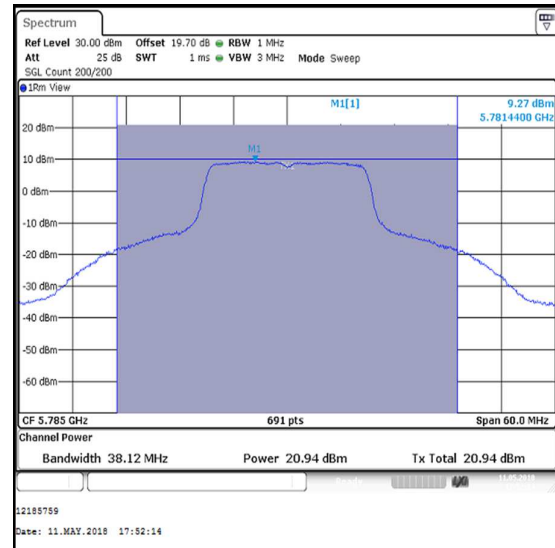
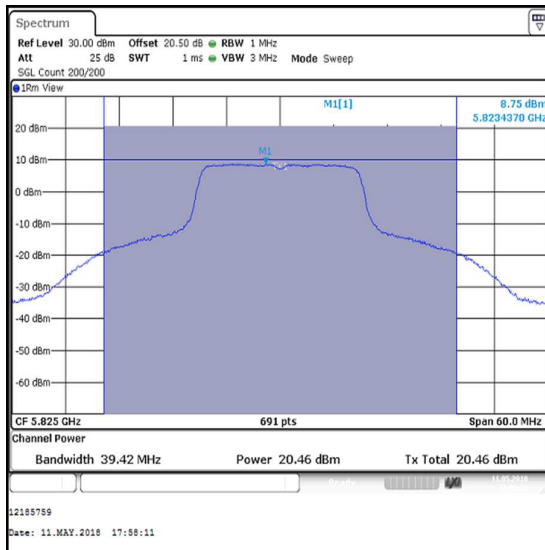


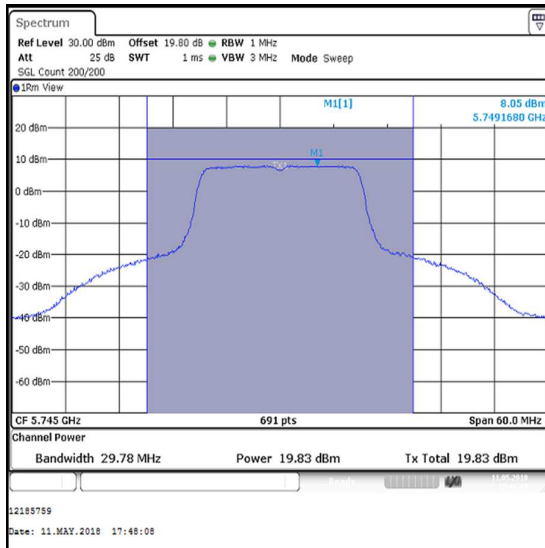
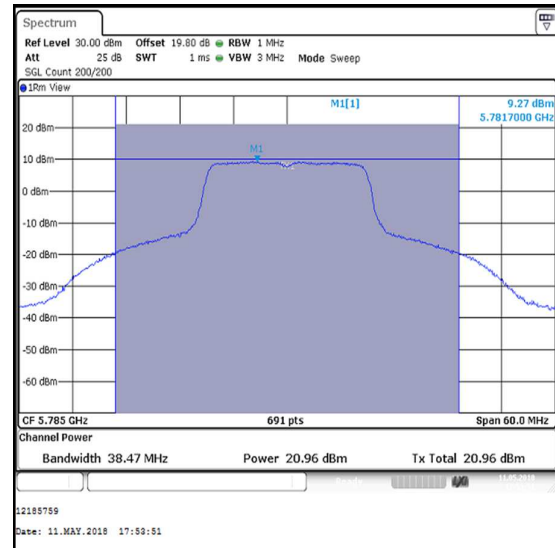
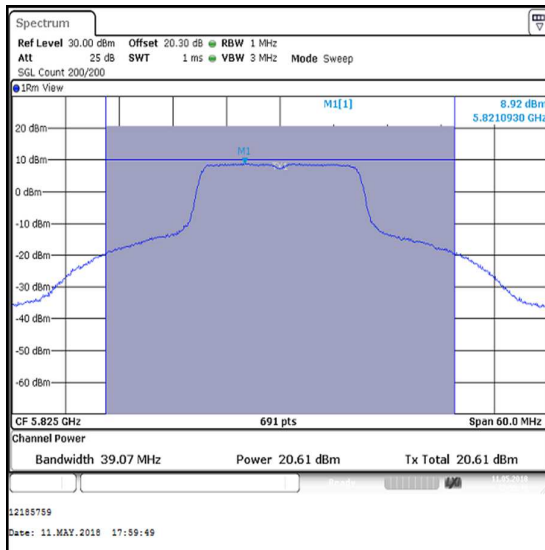
Single Channel / Core 0

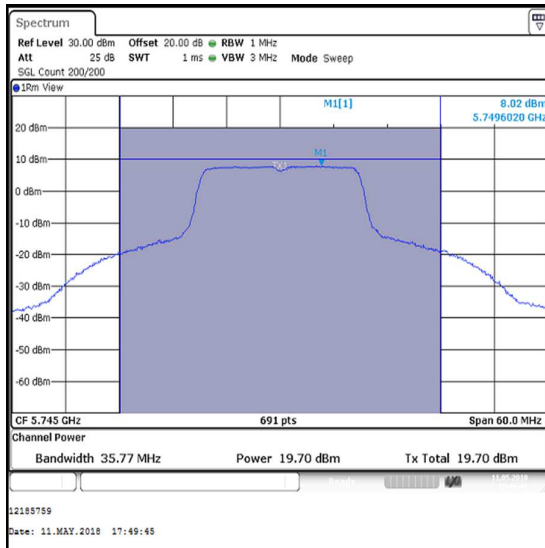
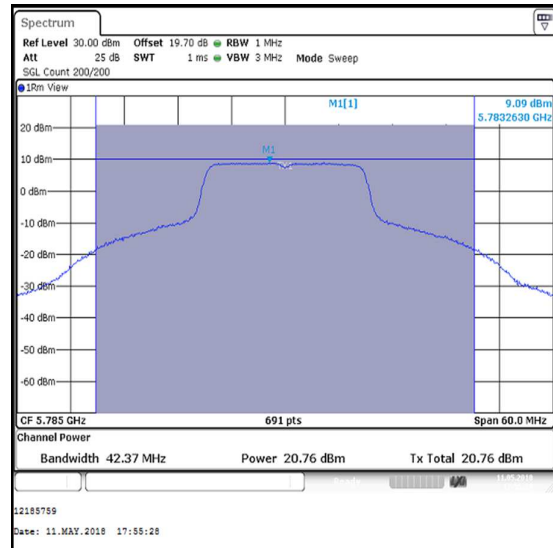
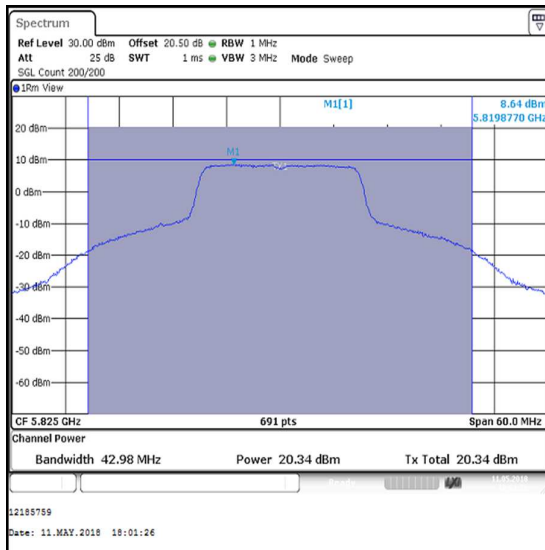
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Conducted Power Core 1 (dBm)	Conducted Power Core 0 (dBm)	Conducted Power Core 2 (dBm)	Combined Conducted Power (dBm)
Bottom	5745	20.2	19.8	19.7	24.7
Middle	5785	20.9	21.0	20.8	25.7
Top	5825	20.5	20.6	20.3	25.2

Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	24.7	29.7	5.0	Complied
Middle	5785	25.7	29.7	4.0	Complied
Top	5825	25.2	29.7	4.5	Complied

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Core 1****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Core 0****Bottom Channel****Middle Channel****Top Channel**

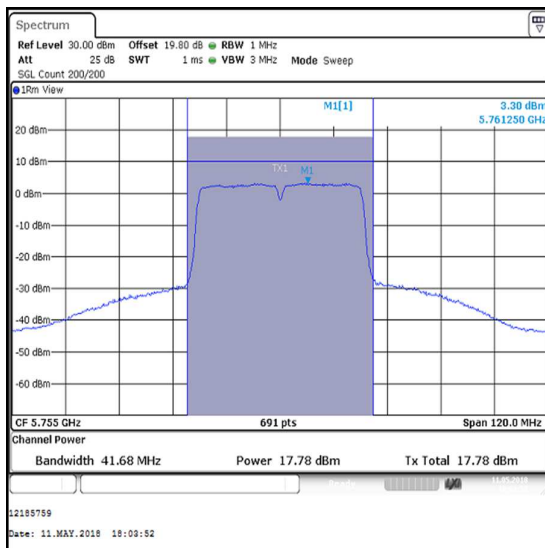
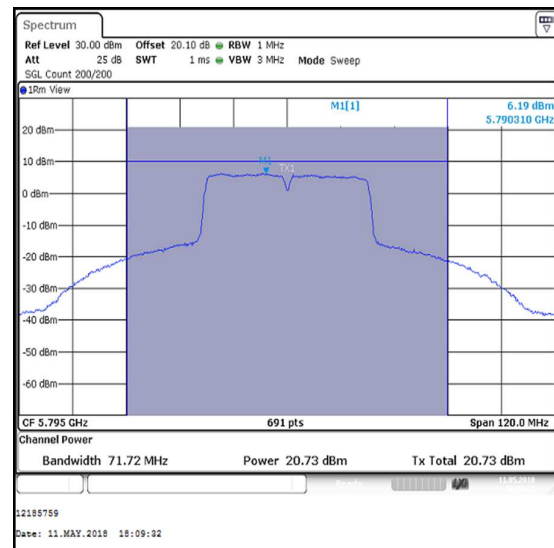
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Core 2****Bottom Channel****Middle Channel****Top Channel**

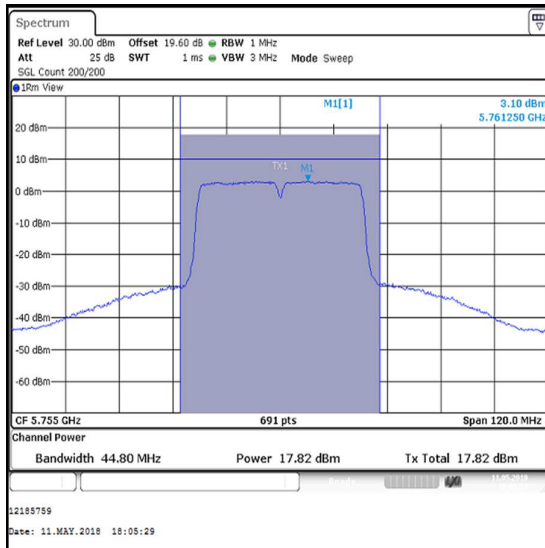
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	17.8	0.1	17.9	17.8	0.1	17.9
Top	5795	20.7	0.1	20.8	20.7	0.1	20.8

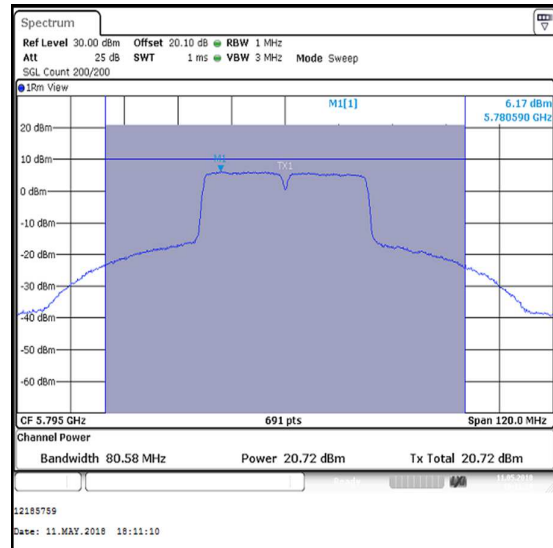
Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 2 (dBm)
Bottom	5755	17.4	0.1	17.5	17.9	17.9	17.5
Top	5795	20.7	0.1	20.8	20.8	20.8	20.8

Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	22.5	29.7	7.2	Complied
Top	5795	25.6	29.7	4.1	Complied

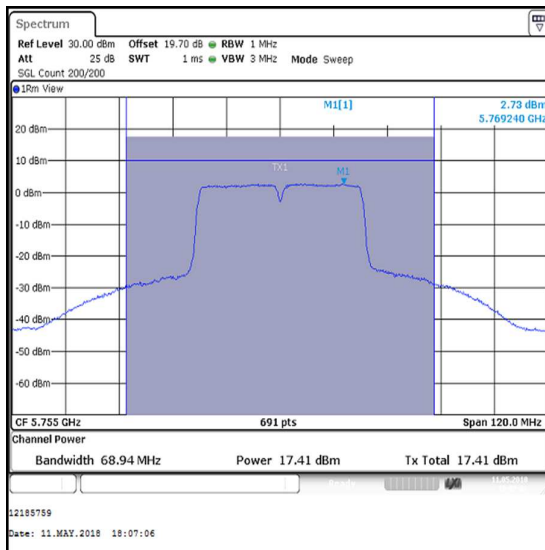
Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Core 1**Bottom Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Core 0**

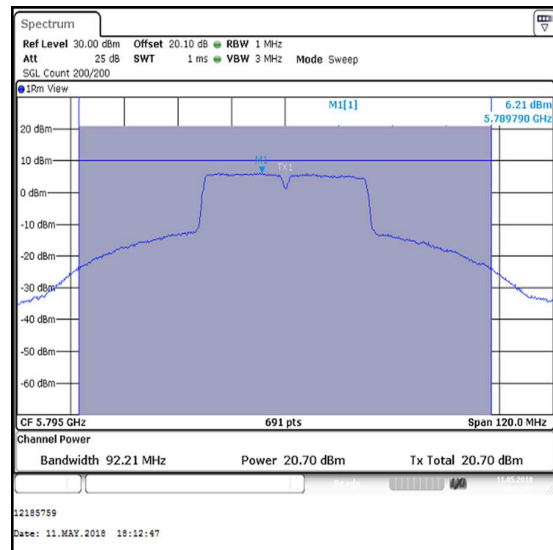
Bottom Channel



Top Channel

Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Core 2

Bottom Channel



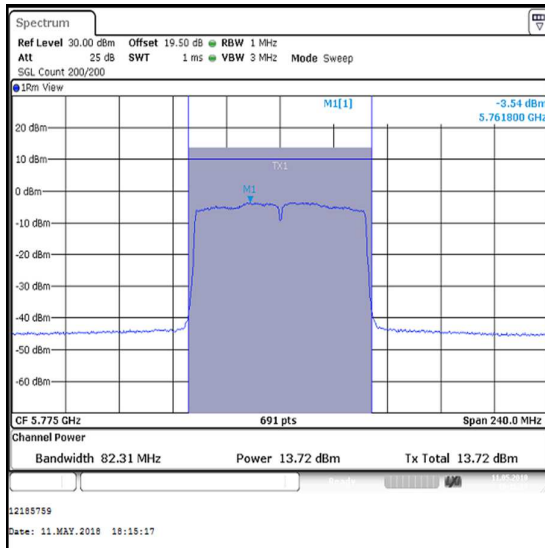
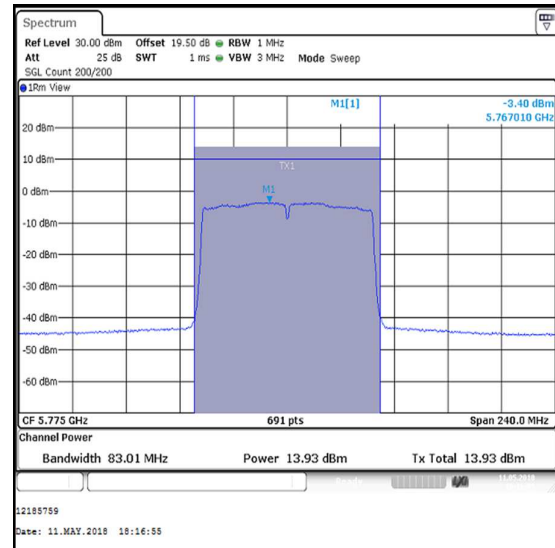
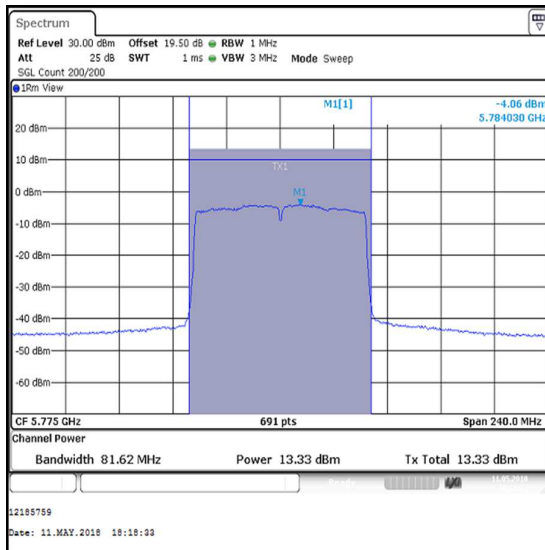
Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	13.7	0.2	13.9	13.9	0.2	14.1

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 2 (dBm)
Single	5775	13.3	0.2	13.5	13.9	14.1	13.5

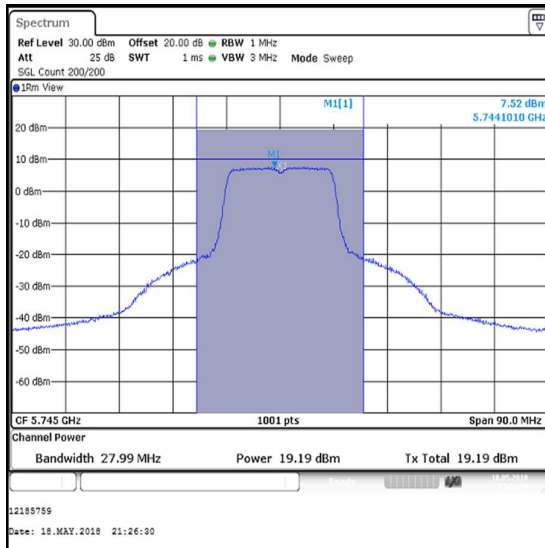
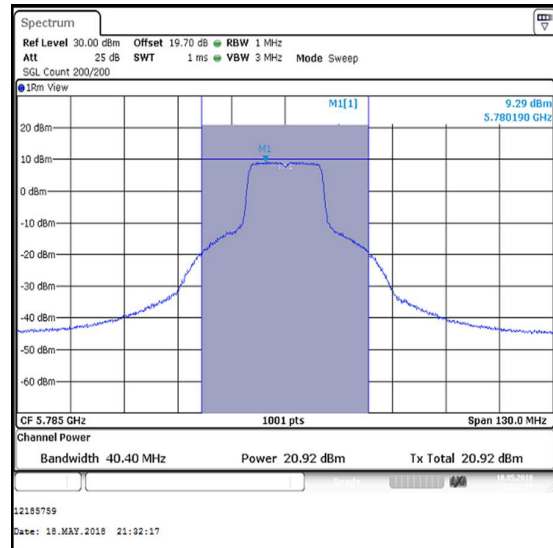
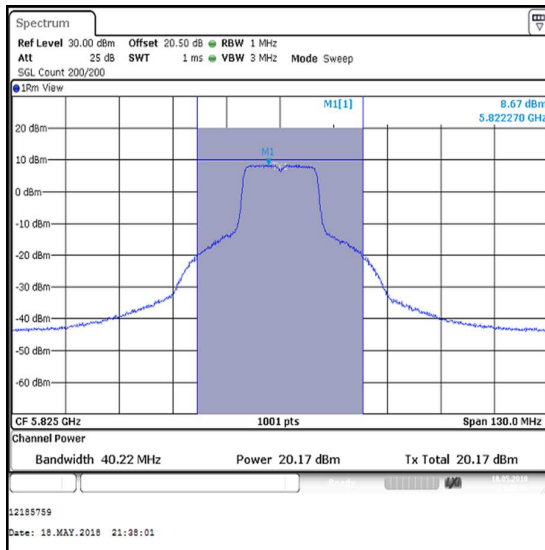
Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	18.6	29.7	11.1	Complied

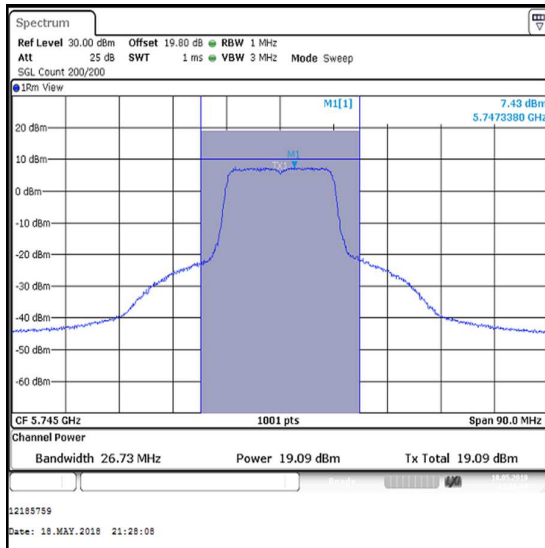
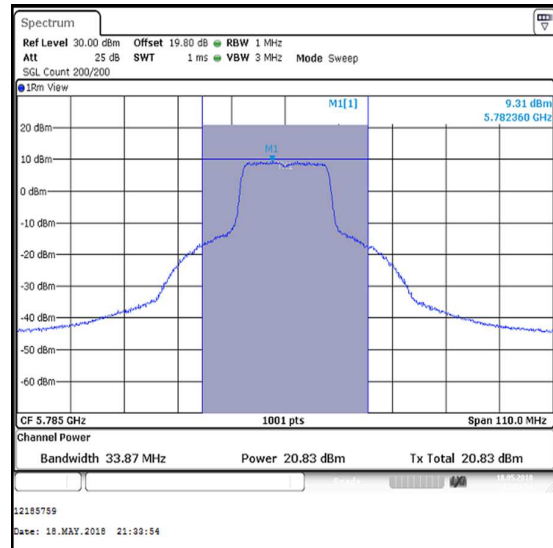
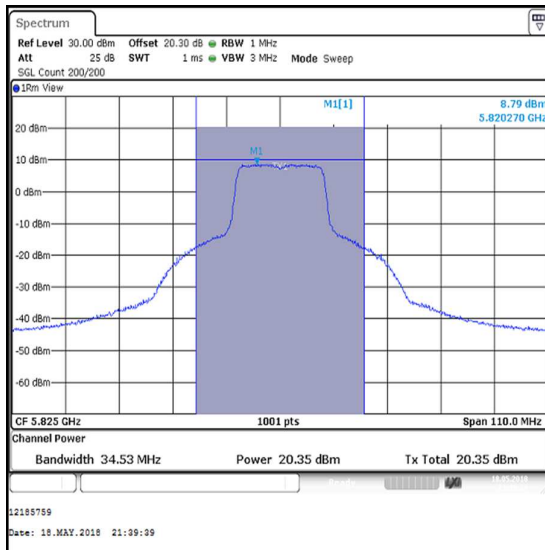
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0****Single Channel / Core 1****Single Channel / Core 0****Single Channel / Core 2**

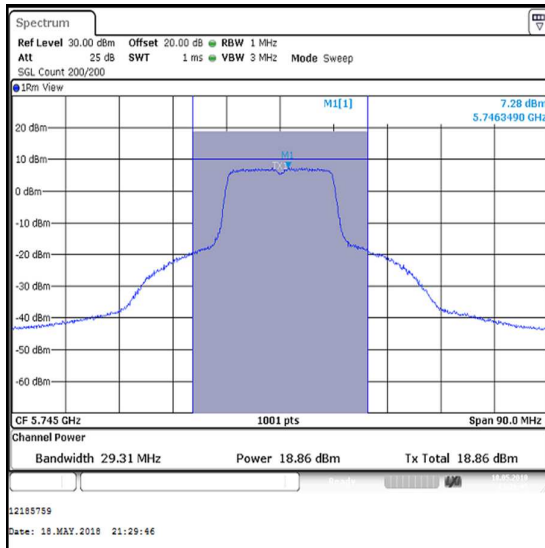
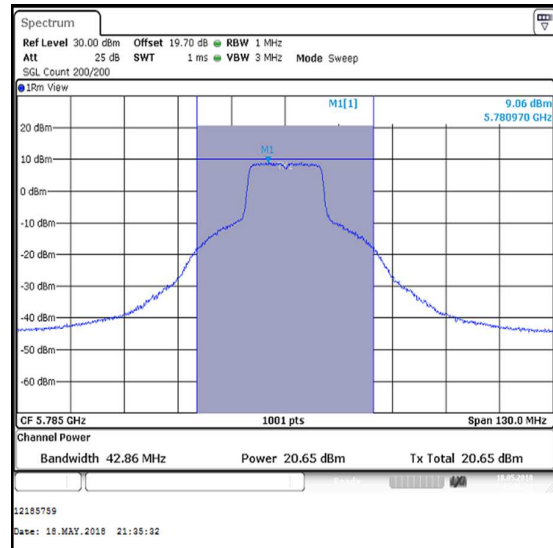
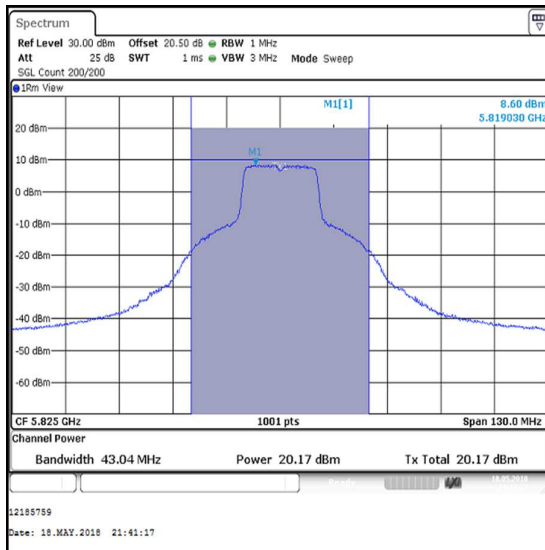
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Conducted Power Core 1 (dBm)	Conducted Power Core 0 (dBm)	Conducted Power Core 2 (dBm)	Combined Conducted Power (dBm)
Bottom	5745	19.2	19.1	18.9	23.8
Middle	5785	20.9	20.8	20.7	25.6
Top	5825	20.2	20.4	20.2	25.0

Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	23.8	30.0	6.2	Complied
Middle	5785	25.6	30.0	4.4	Complied
Top	5825	25.0	30.0	5.0	Complied

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Core 1****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Core 0****Bottom Channel****Middle Channel****Top Channel**

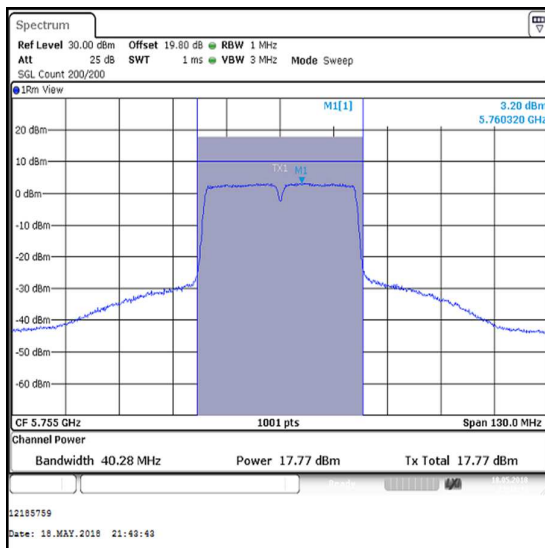
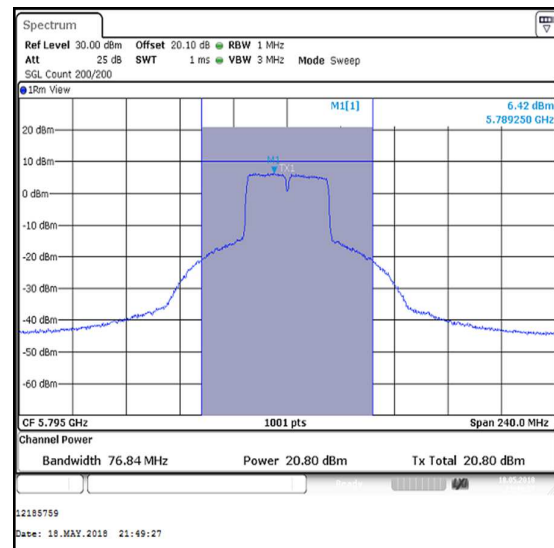
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Core 2****Bottom Channel****Middle Channel****Top Channel**

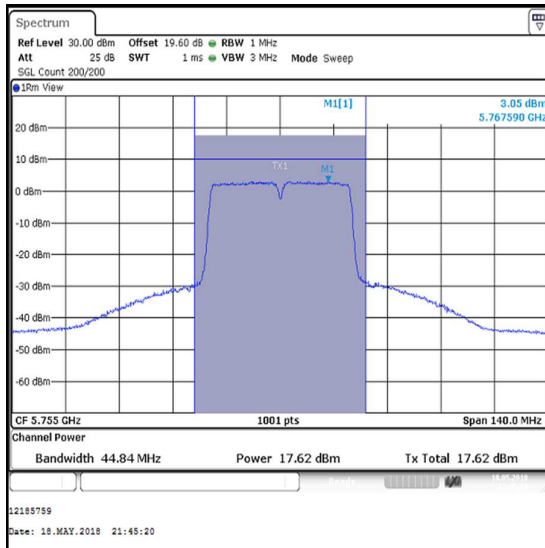
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Bottom	5755	17.8	0.1	17.9	17.6	0.1	17.7
Top	5795	20.8	0.1	20.9	20.8	0.1	20.9

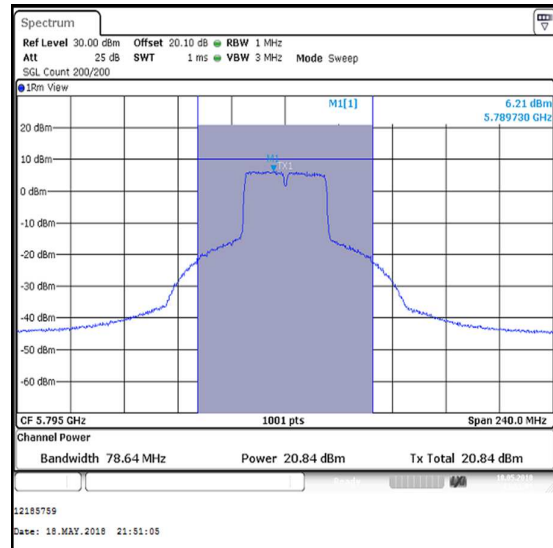
Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 2 (dBm)
Bottom	5755	17.1	0.1	17.2	17.9	17.7	17.2
Top	5795	20.8	0.1	20.9	20.9	20.9	20.9

Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	22.4	30.0	7.6	Complied
Top	5795	25.7	30.0	4.3	Complied

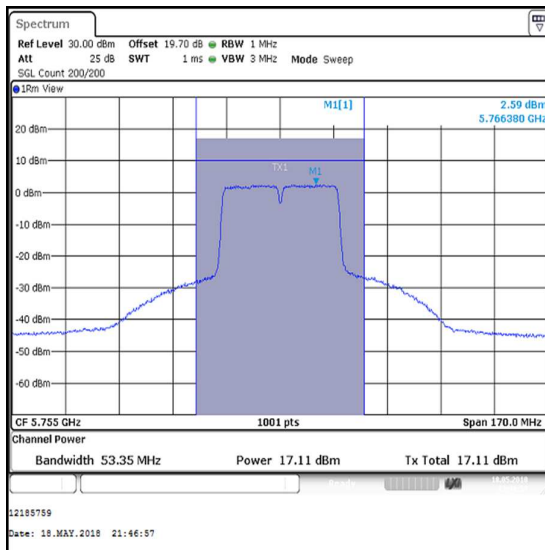
Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Core 1**Bottom Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Core 0**

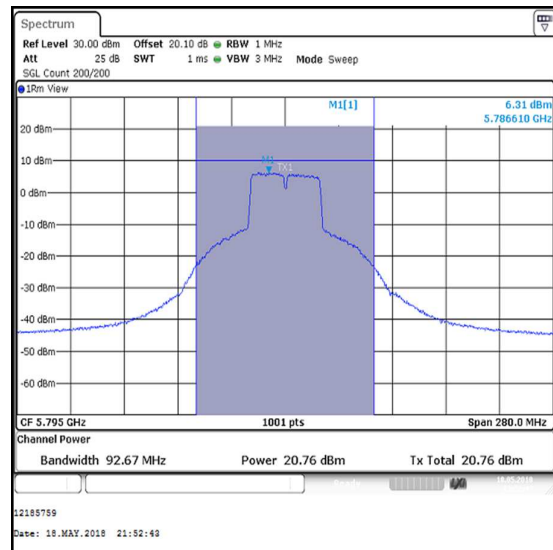
Bottom Channel



Top Channel

Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Core 2

Bottom Channel



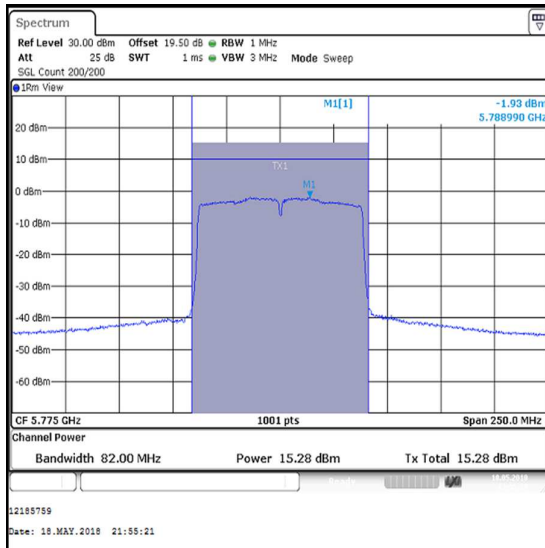
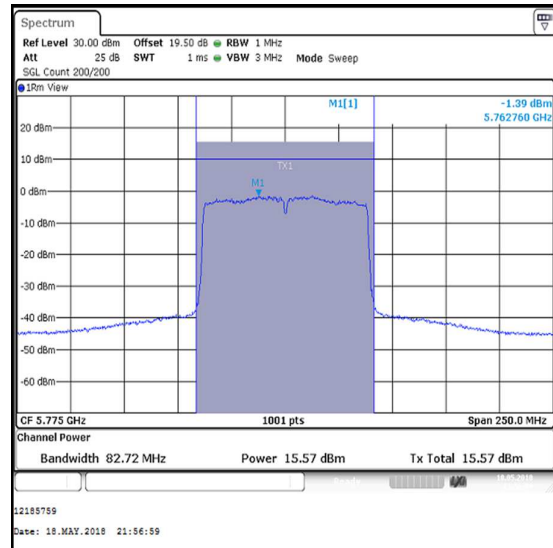
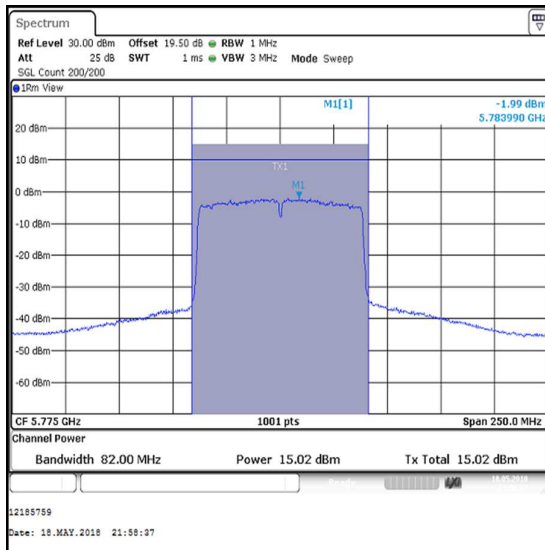
Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)
Single	5775	15.3	0.2	15.5	15.6	0.2	15.8

Channel	Frequency (MHz)	Core 0			Core 1, Core 0 & Core 2		
		Conducted Power (dBm)	Duty Cycle correction (dB)	Corrected Conducted Power (dBm)	Corrected Conducted Power Core 1 (dBm)	Corrected Conducted Power Core 0 (dBm)	Corrected Conducted Power Core 2 (dBm)
Single	5775	15.0	0.2	15.2	15.5	15.8	15.2

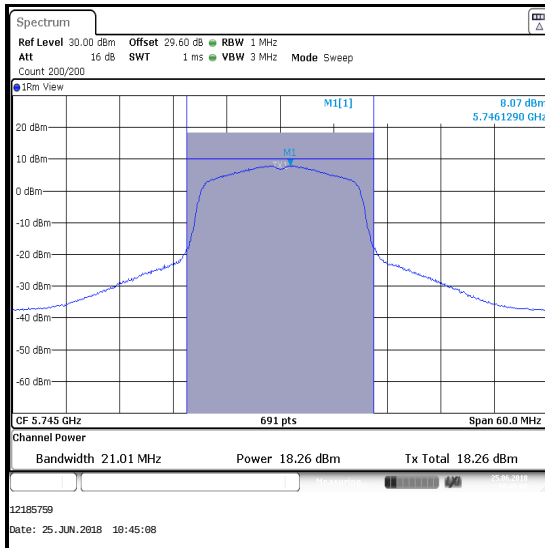
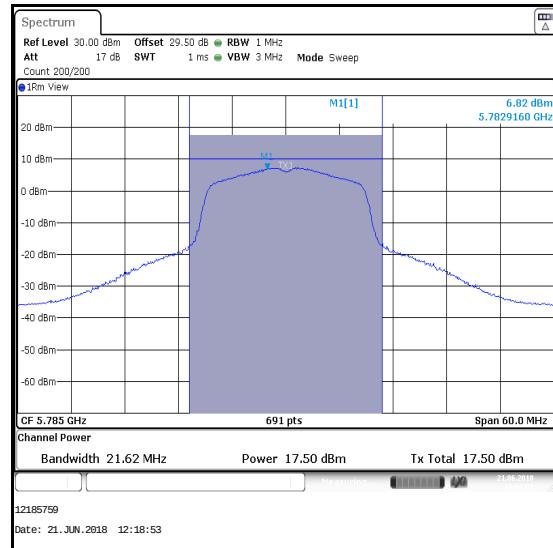
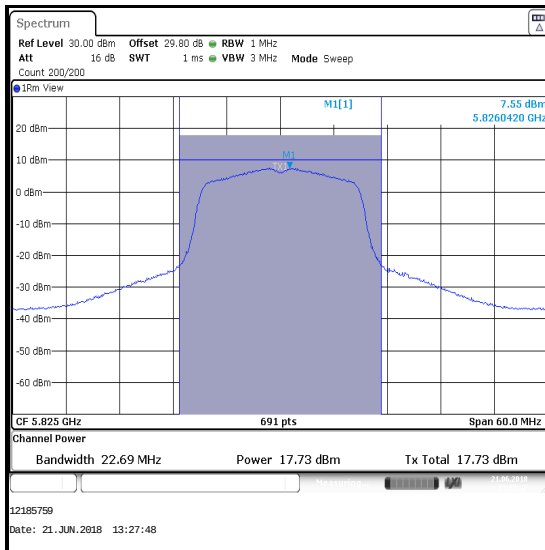
Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	20.3	30.0	9.7	Complied

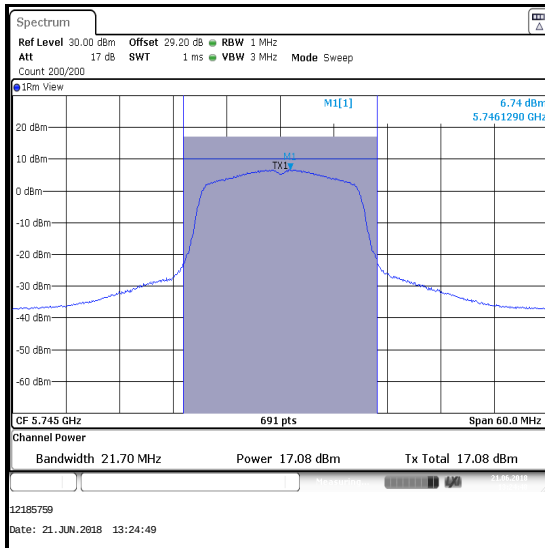
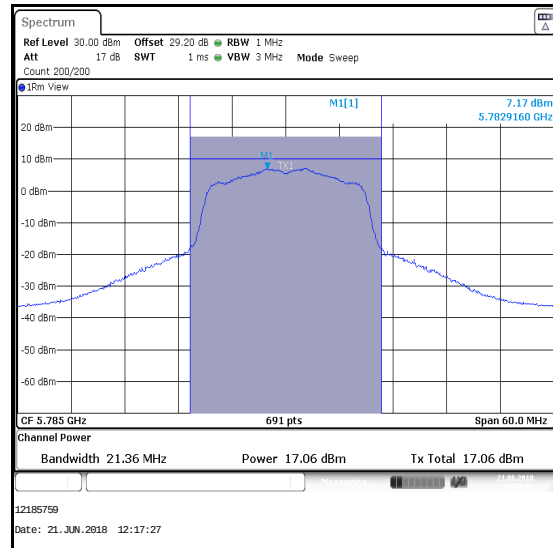
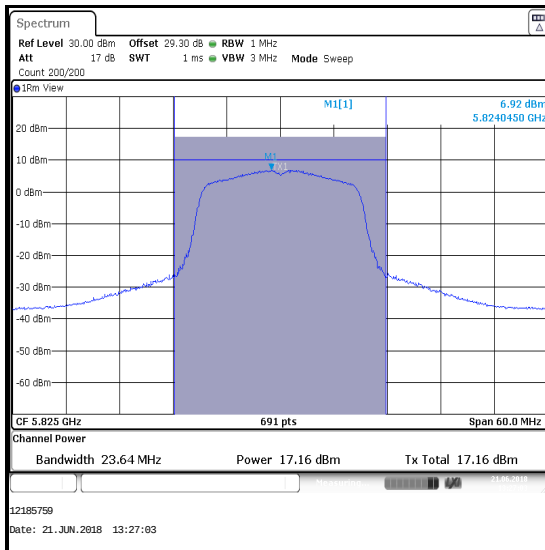
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0****Single Channel / Core 1****Single Channel / Core 0****Single Channel / Core 2**

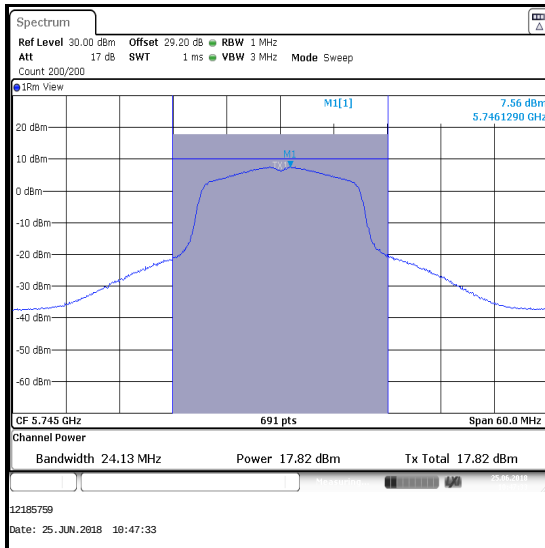
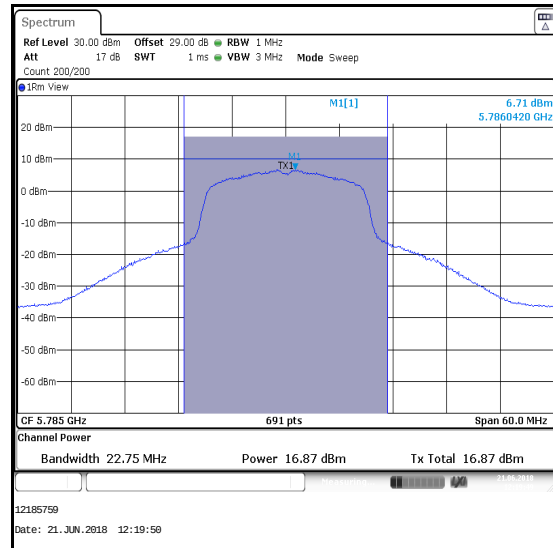
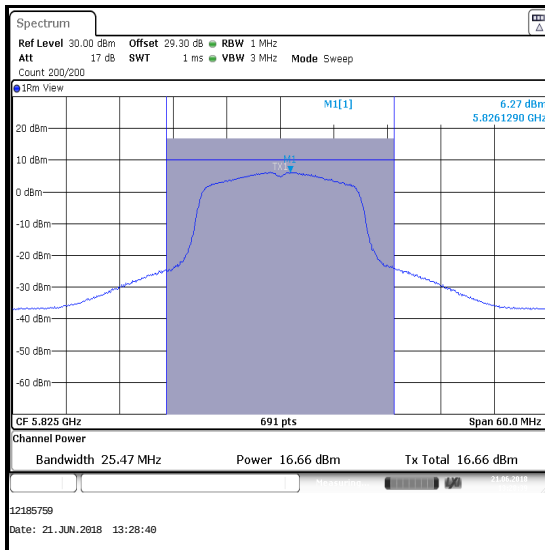
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Conducted Power Core 1 (dBm)	Conducted Power Core 0 (dBm)	Conducted Power Core 2 (dBm)	Combined Conducted Power (dBm)
Bottom	5745	18.3	17.1	17.8	22.5
Middle	5785	17.5	17.1	16.9	21.9
Top	5825	17.7	17.2	16.7	22.0

Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5745	22.5	26.2	3.7	Complied
Middle	5785	21.9	26.2	4.3	Complied
Top	5825	22.0	26.2	4.2	Complied

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Core 1****Bottom Channel****Middle Channel****Top Channel**

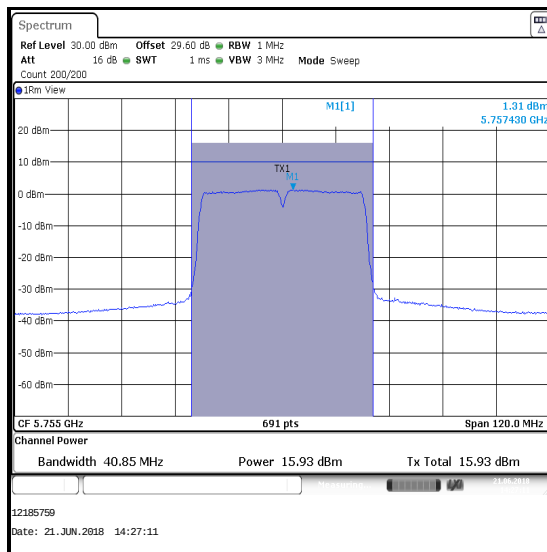
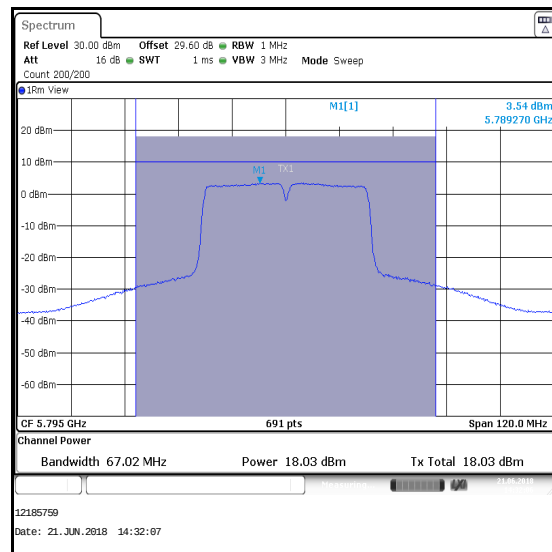
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Core 0****Bottom Channel****Middle Channel****Top Channel**

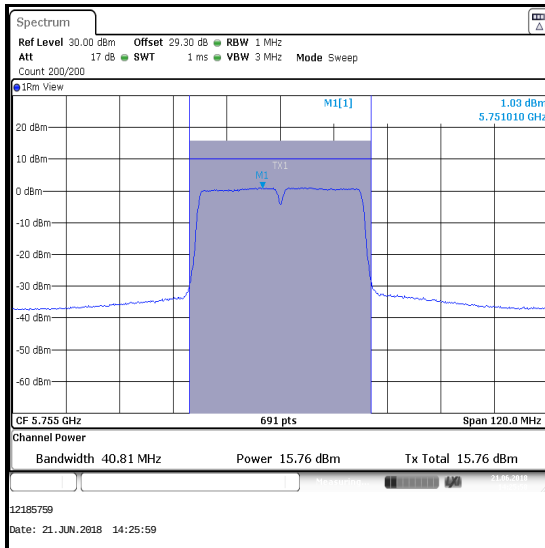
Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Core 2****Bottom Channel****Middle Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**

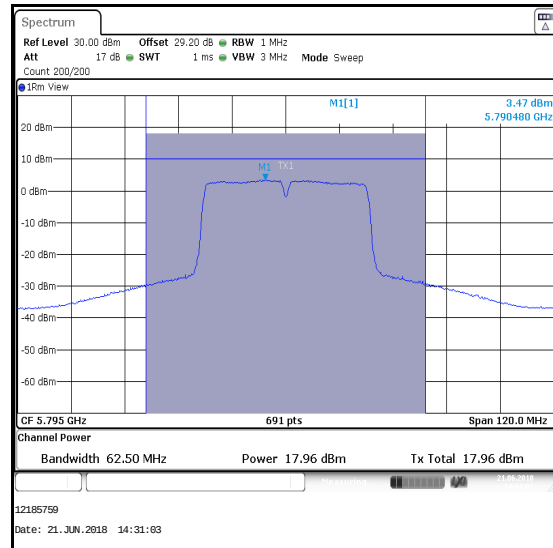
Channel	Frequency (MHz)	Conducted Power Core 1 (dBm)	Conducted Power Core 0 (dBm)	Conducted Power Core 2 (dBm)	Combined Conducted Power (dBm)
Bottom	5755	15.9	15.8	15.8	20.6
Top	5795	18.0	18.0	17.8	22.7

Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5755	20.6	26.2	5.6	Complied
Top	5795	22.7	26.2	3.5	Complied

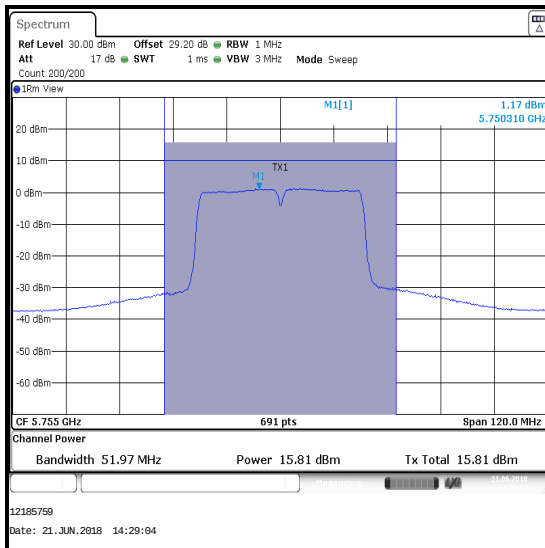
Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Core 1**Bottom Channel****Top Channel**

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Core 0**

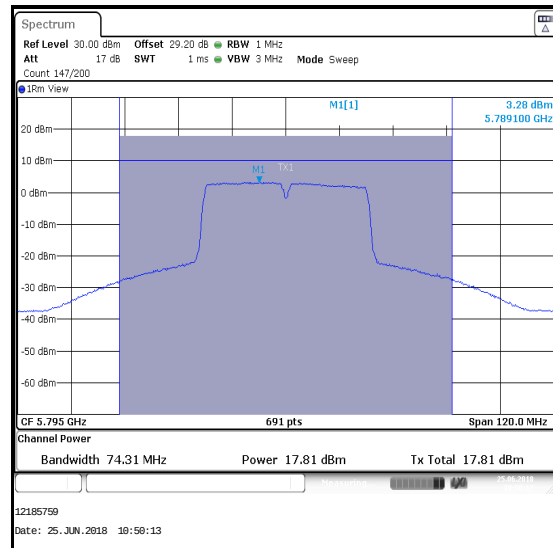
Bottom Channel



Top Channel

Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Core 2

Bottom Channel

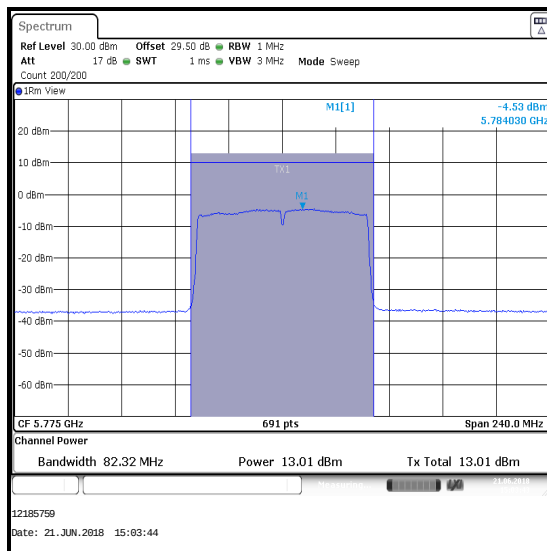
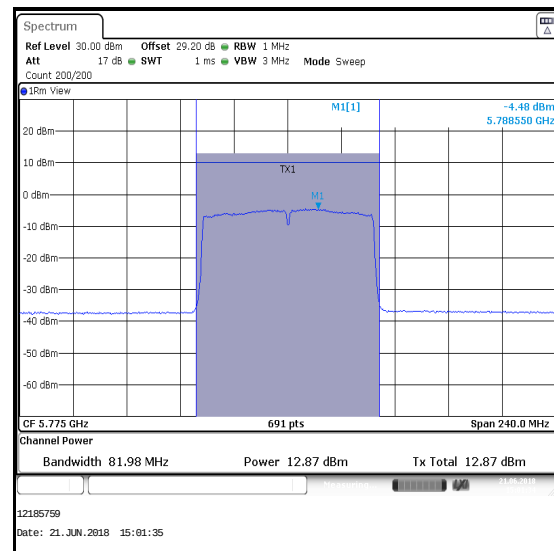
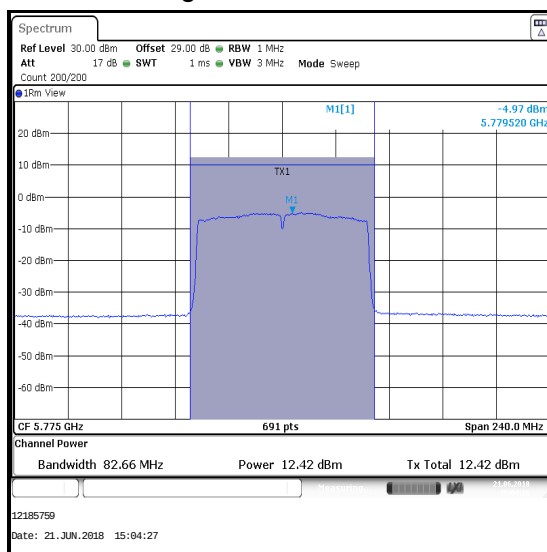


Top Channel

Transmitter Maximum Conducted Output Power (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Conducted Power Core 1 (dBm)	Conducted Power Core 0 (dBm)	Conducted Power Core 2 (dBm)	Combined Conducted Power (dBm)
Single	5775	13.0	12.9	12.4	17.5

Channel	Frequency (MHz)	Combined Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
Single	5775	17.5	26.2	8.7	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**Single Channel / Core 1****Single Channel / Core 0****Single Channel / Core 2**

4.5. Transmitter Maximum Power Spectral Density**4.5.1. 5.15-5.25 GHz band****Test Summary:**

Test Engineers:	Max Passell & Matthew Botfield	Test Dates:	11 May 2018 to 22 June 2018
Test Sample Serial Numbers:	C02WC003JMFN & C02WC001JTGW		

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 24
Relative Humidity (%):	42 to 54

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Note(s):**

1. Transmitter Maximum Power Spectral Density tests in all bands were performed using a signal analyser 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 using configurations detailed in Section 3.5 of this test report on the relevant channels.
3. For data rates where the EUT was transmitting at <98% duty cycle, the calculated duty cycle in Section 4.1 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. FCC Part 15.407(a)(1)(iv) limit for PSD is <11 dBm/MHz.
5. For MIMO CDD and MIMO STBC modes, PSD was measured on both ports and then combined using the *measure and sum the spectra across the outputs* technique, stated in FCC KDB 662911 D01 Section E)2)a).
6. For MIMO TxBF modes, 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).
7. For MIMO STBC modes of operation, the antenna gain is < 6 dBi.
8. For SISO modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 6.7 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 0.7 dB to 10.3 dBm.
9. For 2Tx CDD and 2Tx TxBF modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 8.9 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 2.9 dB to 8.1 dBm.
10. For 3Tx CDD modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 10.0 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 4.0 dB to 7.0 dBm.
11. For details on antenna gains refer to Section 3.4 of this test report.
12. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.
13. 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 4.4 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.
14. The EUT with serial number C02WC003JMFN was used for non-TxBF tests, the EUT with serial C02WC001JTGW number was used for TxBF tests.

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0**

Channel	Frequency (MHz)	PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5180	3.3	10.3	7.0	Complied
Middle	5200	7.0	10.3	3.3	Complied
Top	5240	7.2	10.3	3.1	Complied

Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5180	2.8	10.3	7.5	Complied
Middle	5200	6.7	10.3	3.6	Complied
Top	5240	7.1	10.3	3.2	Complied

Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5190	-1.3	0.1	-1.2	10.3	11.5	Complied
Top	5230	4.3	0.1	4.4	10.3	5.9	Complied

Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Single	5210	-4.5	0.2	-4.3	10.3	14.6	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm)	Margin (dB)	Result
Bottom	5180	1.8	1.5	4.5	8.1	3.6	Complied
Middle	5200	2.3	2.0	5.0	8.1	3.1	Complied
Top	5240	2.3	2.2	5.1	8.1	3.0	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5190	-3.3	0.1	-3.2	-3.6	0.1	-3.5
Top	5230	1.4	0.1	1.5	1.4	0.1	1.5

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	-3.2	-3.5	-0.4	8.1	8.5	Complied
Top	5230	1.5	1.5	4.4	8.1	3.7	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0x1

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5210	-7.8	0.2	-7.6	-7.6	0.2	-7.4

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5210	-7.6	-7.4	-4.8	8.1	12.9	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm)	Margin (dB)	Result
Bottom	5180	2.8	2.7	5.6	11.0	5.4	Complied
Middle	5200	5.1	5.4	8.1	11.0	2.9	Complied
Top	5240	5.3	5.4	8.3	11.0	2.7	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5190	-2.2	0.1	-2.1	-2.2	0.1	-2.1
Top	5230	3.1	0.1	3.2	3.4	0.1	3.5

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	-2.1	-2.1	0.8	11.0	10.2	Complied
Top	5230	3.2	3.5	6.2	11.0	4.8	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5210	-6.7	0.2	-6.5	-6.4	0.2	-6.2

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5210	-6.5	-6.2	-3.6	11.0	14.6	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5180	0.9	0.2	1.1	0.2	0.2	0.4
Middle	5200	2.9	0.2	3.1	2.1	0.2	2.3
Top	5240	3.4	0.2	3.6	2.1	0.2	2.3

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5180	1.1	0.4	3.8	8.1	4.3	Complied
Middle	5200	3.1	2.3	5.7	8.1	2.4	Complied
Top	5240	3.6	2.3	6.0	8.1	2.1	Complied

Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5190	-5.3	0.2	-5.1	-5.1	0.2	-4.9
Top	5230	1.0	0.2	1.2	0.3	0.2	0.5

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	-5.1	-4.9	-2.0	8.1	10.1	Complied
Top	5230	1.2	0.5	3.9	8.1	4.2	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5210	-10.5	0.2	-10.3	-11.5	0.2	-11.3

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5210	-10.3	-11.3	-7.8	8.1	15.9	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5180	-1.4	-1.5	-0.8	3.4
Middle	5200	-1.3	-1.2	-0.9	3.5
Top	5240	-0.6	-0.8	-0.2	4.1

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5180	3.4	7.0	3.6	Complied
Middle	5200	3.5	7.0	3.5	Complied
Top	5240	4.1	7.0	2.9	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Bottom	5190	-5.4	0.1	-5.3	-5.4	0.1	-5.3
Top	5230	-1.9	0.1	-1.8	-1.3	0.1	-1.2

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Bottom	5190	-4.5	0.1	-4.4	-5.3	-5.3	-4.4
Top	5230	-1.2	0.1	-1.1	-1.8	-1.2	-1.1

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	-0.4	7.0	7.4	Complied
Top	5230	3.3	7.0	3.7	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
42	5210	-9.5	0.2	-9.3	-9.6	0.2	-9.4

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
42	5210	-9.6	0.2	-9.4	-9.3	-9.4	-9.4

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
42	5210	-4.7	7.0	11.7	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5180	0.7	1.0	1.3	5.6
Middle	5200	3.0	3.0	2.8	7.5
Top	5240	3.2	3.6	3.8	8.2

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5180	5.6	11.0	5.4	Complied
Middle	5200	7.5	11.0	3.5	Complied
Top	5240	8.2	11.0	2.8	Complied

Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Bottom	5190	-4.4	0.1	-4.3	-4.3	0.1	-4.2
Top	5230	1.3	0.1	1.4	1.6	0.1	1.7

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Bottom	5190	-3.5	0.1	-3.4	-4.3	-4.2	-3.4
Top	5230	2.0	0.1	2.1	1.4	1.7	2.1

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	0.6	11.0	10.4	Complied
Top	5230	6.3	11.0	4.7	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Single	5210	-7.5	0.2	-7.3	-7.1	0.2	-6.9

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Single	5210	-7.5	0.2	-7.3	-7.3	-6.9	-7.3

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5210	-2.9	11.0	13.9	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5180	-0.1	-1.0	-1.1	4.1
Middle	5200	0.5	-0.6	-0.3	4.7
Top	5240	0.3	0.0	-0.1	4.8

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5180	4.1	7.0	2.9	Complied
Middle	5200	4.7	7.0	2.3	Complied
Top	5240	4.8	7.0	2.2	Complied

Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5190	-7.1	-7.3	-7.5	-2.5
Top	5230	-2.0	-2.8	-2.5	2.4

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	-2.5	7.0	9.5	Complied
Top	5230	2.4	7.0	4.6	Complied

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Single	5210	-9.8	-10.5	-10.4	-5.5

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5210	-5.5	7.0	12.5	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band)**4.5.2. 5.25-5.35 GHz band****Test Summary:**

Test Engineers:	Max Passell & Matthew Botfield	Test Dates:	11 May 2018 & 25 June 2018
Test Sample Serial Numbers:	C02WC003JMFN & C02WC001JTGW		

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):	22 to 24
Relative Humidity (%):	42 to 55

Note(s):

1. Transmitter Maximum Power Spectral Density tests in all bands were performed using a signal analyser 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 using configurations detailed in Section 3.5 of this test report on the relevant channels.
3. For data rates where the EUT was transmitting at <98% duty cycle, the calculated duty cycle in Section 4.1 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. FCC Part 15.407(a)(2) limit for PSD in the 5.25-5.35 GHz band is <11 dBm/MHz.
5. For MIMO CDD and MIMO STBC modes, 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)a).
6. For MIMO TxBF modes, 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).
7. For SISO modes of operation presented in this section of the test report, the EUT has an antenna gain of 7.6 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 1.6 dB to 9.4 dBm.
8. For 2Tx CDD and 2Tx TxBF modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 9.8 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 3.8 dB to 7.2 dBm.
9. For 3Tx CDD and 3Tx TxBF modes of operation presented in this section of the test report, 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.
10. For 2Tx STBC modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 6.9 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 0.9 dB to 10.1 dBm.

11. For 3Tx STBC modes of operation presented in this section of the test report, 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.
12. For details on antenna gains refer to Section 3.4 of this test report
13. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.
14. 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 4.4 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.
15. The EUT with serial number C02WC003JMFN was used for non-TxBF tests, the EUT with serial C02WC001JTGW number was used for TxBF tests.

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0**

Channel	Frequency (MHz)	PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5260	6.6	9.4	2.8	Complied
Middle	5280	6.5	9.4	2.9	Complied
Top	5320	3.6	9.4	5.8	Complied

Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5260	6.3	9.4	3.1	Complied
Middle	5280	6.2	9.4	3.2	Complied
Top	5320	3.7	9.4	5.7	Complied

Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5270	3.9	0.1	4.0	9.4	5.4	Complied
Top	5310	-1.0	0.1	-0.9	9.4	10.3	Complied

Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm /MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Single	5290	-4.5	0.2	-4.3	9.4	13.7	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	Combined PSD (dBm /MHz)	Limit (dBm /MHz)	Margin (dB)	Result
Bottom	5260	0.9	0.7	3.7	7.2	3.5	Complied
Middle	5280	1.3	0.8	3.9	7.2	3.3	Complied
Top	5320	0.1	0.0	2.9	7.2	4.3	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5190	0.8	0.1	0.9	0.5	0.1	0.6
Top	5230	-4.3	0.1	-4.2	-4.3	0.1	-4.2

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	0.9	0.6	3.6	7.2	3.6	Complied
Top	5230	-4.2	-4.2	-1.3	7.2	8.5	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5290	-7.3	0.2	-7.1	-7.4	0.2	-7.2

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-7.1	-7.2	-4.3	7.2	11.5	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	4.3	4.3	7.2	10.1	2.9	Complied
Middle	5280	4.4	4.1	7.0	10.1	3.1	Complied
Top	5320	1.3	1.6	4.3	10.1	5.8	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5190	1.3	0.1	1.4	1.2	0.1	1.3
Top	5230	-2.0	0.1	-1.9	-2.1	0.1	-2.0

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5190	1.4	1.3	4.2	10.1	5.9	Complied
Top	5230	-1.9	-2.0	1.0	10.1	9.1	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5290	-6.5	0.2	-6.3	-6.7	0.2	-6.5

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-6.3	-6.5	-3.5	10.1	13.6	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5260	1.8	0.2	2.0	1.4	0.2	1.6
Middle	5280	2.2	0.2	2.4	1.6	0.2	1.8
Top	5320	0.5	0.2	0.7	0.4	0.2	0.6

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	2.0	1.6	4.8	7.2	2.4	Complied
Middle	5280	2.4	1.8	5.1	7.2	2.1	Complied
Top	5320	0.7	0.6	3.7	7.2	3.5	Complied

Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5270	0.4	0.2	0.6	-0.8	0.2	-0.6
Top	5310	-5.0	0.2	-4.8	-6.2	0.2	-6.0

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	0.6	-0.6	3.1	7.2	4.1	Complied
Top	5310	-4.8	-6.0	-2.3	7.2	9.5	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5290	-8.9	0.2	-8.7	-9.5	0.2	-9.3

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-8.7	-9.3	-6.0	7.2	13.2	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5260	-2.6	-2.6	-2.5	2.1
Middle	5280	-2.2	-2.5	-2.2	2.3
Top	5320	-2.8	-3.0	-2.8	1.7

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	2.1	6.0	3.9	Complied
Middle	5280	2.3	6.0	3.7	Complied
Top	5320	1.7	6.0	4.3	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5270	-2.9	0.1	-2.8	-3.3	0.1	-3.2
Top	5310	-4.9	0.1	-4.8	-4.8	0.1	-4.7

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Corrected PSD Core 2 (dBm/MHz)
Bottom	5270	-3.1	0.1	-3.0	-2.8	-3.2	-3.0
Top	5310	-4.8	0.1	-4.7	-4.8	-4.7	-4.7

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	1.6	6.0	4.4	Complied
Top	5310	-0.2	6.0	6.2	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
58	5290	-9.4	0.2	-9.2	-9.2	0.2	-9.0

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Corrected PSD Core 2 (dBm/MHz)
58	5290	-9.2	0.2	-9.0	-9.2	-9.0	-9.0

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
58	5290	-4.5	6.0	10.5	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5260	2.7	2.6	2.7	7.4
Middle	5280	2.9	2.4	2.8	7.2
Top	5320	0.1	-0.2	0.1	4.4

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	7.4	10.7	3.3	Complied
Middle	5280	7.2	10.7	3.5	Complied
Top	5320	4.4	10.7	6.3	Complied

Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5270	0.3	0.1	0.4	0.3	0.1	0.4
Top	5310	-3.3	0.1	-3.2	-3.3	0.1	-3.2

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Corrected PSD Core 2 (dBm/MHz)
Bottom	5270	0.1	0.1	0.2	0.4	0.4	0.2
Top	5310	-2.9	0.1	-2.8	-3.2	-3.2	-2.8

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	4.9	10.7	5.8	Complied
Top	5310	1.4	10.7	9.3	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5290	-7.4	0.2	-7.2	-7.0	0.2	-6.8

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Single	5290	-7.1	0.2	-6.9	-7.2	-6.8	-6.9

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-2.5	10.7	13.2	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5260	-1.3	-1.6	-2.0	3.1
Middle	5280	-0.9	-1.4	-2.0	3.4
Top	5320	-1.2	-1.9	-2.5	2.9

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	3.1	6.0	2.9	Complied
Middle	5280	3.4	6.0	2.6	Complied
Top	5320	2.9	6.0	3.1	Complied

Transmitter Maximum Power Spectral Density (5.25-5.35 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5270	-3.8	-3.9	-4.1	0.8
Top	5310	-5.1	-5.8	-6.0	-0.8

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5270	0.8	6.0	5.2	Complied
Top	5310	-0.8	6.0	6.8	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Single	5290	-9.4	-10.1	-10.7	-5.3

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5290	-5.3	6.0	11.3	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band)**4.5.3. 5.47-5.725 GHz band****Test Summary:**

Test Engineers:	Max Passell & Matthew Botfield	Test Dates:	11 May 2018 & 25 June 2018
Test Sample Serial Numbers:	C02WC003JMFN & C02WC001JTGW		

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):	22 to 24
Relative Humidity (%):	42 to 55

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Note(s):**

1. Transmitter Maximum Power Spectral Density tests in all bands were performed using a signal analyser 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 using configurations detailed in Section 3.5 of this test report on the relevant channels.
3. For data rates where the EUT was transmitting at <98% duty cycle, the calculated duty cycle in Section 4.1 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. FCC Part 15.407(a)(2) limit for PSD in the 5.47-5.725 GHz band is <11 dBm/MHz.
5. For MIMO CDD and MIMO STBC modes, 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)2a).
6. For MIMO TxBF modes, 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)2b).
7. For SISO modes of operation presented in this section of the test report, the EUT has an antenna gain of 7.4 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 1.4 dB to 9.6 dBm.
8. For 2Tx CDD and 2 Tx TxBF modes of operation presented in this section of the test report, 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.
9. For 3Tx CDD and 3Tx TxBF modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 10.7 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 4.7 dB to 6.3 dBm.
10. For 2Tx STBC modes of operation presented in this section of the test report, 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.
11. For details on antenna gains refer to Section 3.4 of this test report.
12. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.
13. 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 4.4 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.
14. The EUT with serial number C02WC003JMFN was used for non-TxBF tests, the EUT with serial C02WC001JTGW number was used for TxBF tests.

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0**

Channel	Frequency (MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	2.3	9.6	7.3	Complied
Middle	5580	6.5	9.6	3.1	Complied
Top	5700	0.5	9.6	9.1	Complied

Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	1.9	9.6	7.7	Complied
Middle	5580	6.3	9.6	3.3	Complied
Top	5700	0.2	9.6	9.4	Complied

Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-1.8	0.1	-1.7	9.6	11.3	Complied
Middle	5590	4.9	0.1	5.0	9.6	4.6	Complied
Top	5670	1.5	0.1	1.6	9.6	8.0	Complied

Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-5.0	0.2	-4.8	9.6	14.4	Complied
Top	5610	-0.1	0.2	0.1	9.6	9.5	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	-1.3	-1.4	1.6	7.6	6.0	Complied
Middle	5580	1.4	1.3	4.2	7.6	3.4	Complied
Top	5700	-0.5	-0.7	2.3	7.6	5.3	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5510	-3.4	0.1	-3.3	-3.6	0.1	-3.5
Middle	5590	1.5	0.1	1.6	1.6	0.1	1.7
Top	5670	-0.2	0.1	-0.1	-0.1	0.1	0.0

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-3.3	-3.5	-0.5	7.6	8.1	Complied
Middle	5590	1.6	1.7	4.6	7.6	3.0	Complied
Top	5670	-0.1	0.0	2.9	7.6	4.7	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
106	5530	-8.2	0.2	-8.0	-8.3	0.2	-8.1
122	5610	-0.5	0.2	-0.3	-0.6	0.2	-0.4

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
106	5530	-8.0	-8.1	-5.1	7.6	12.7	Complied
122	5610	-0.3	-0.4	2.5	7.6	5.1	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	0.8	0.9	3.7	10.6	6.9	Complied
Middle	5580	4.3	4.2	7.1	10.6	3.5	Complied
Top	5700	0.7	0.8	3.7	10.6	6.9	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5510	-3.9	0.1	-3.8	-3.9	0.1	-3.8
Middle	5590	3.2	0.1	3.3	3.3	0.1	3.4
Top	5670	0.6	0.1	0.7	0.8	0.1	0.9

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-3.8	-3.8	-0.9	10.6	11.5	Complied
Middle	5590	3.3	3.4	6.3	10.6	4.3	Complied
Top	5670	0.7	0.9	3.7	10.6	6.9	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5530	-8.3	0.2	-8.1	-8.2	0.2	-8.0
Top	5610	-0.2	0.2	0.0	-0.3	0.2	-0.1

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-8.1	-8.0	-5.1	10.6	15.7	Complied
Top	5610	0.0	-0.1	3.0	10.6	7.6	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5500	0.8	0.2	1.0	0.0	0.2	0.2
Middle	5580	2.7	0.2	2.9	2.1	0.2	2.3
Top	5700	-0.8	0.2	-0.6	-1.5	0.2	-1.3

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	1.0	0.2	3.6	7.6	4.0	Complied
Middle	5580	2.9	2.3	5.6	7.6	2.0	Complied
Top	5700	-0.6	-1.3	2.1	7.6	5.5	Complied

Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5510	-5.3	0.2	-5.1	-5.8	0.2	-5.6
Middle	5590	0.1	0.2	0.3	-0.9	0.2	-0.7
Top	5670	-0.9	0.2	-0.7	-0.9	0.2	-0.7

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-5.1	-5.6	-2.3	7.6	9.9	Complied
Middle	5590	0.3	-0.7	2.8	7.6	4.8	Complied
Top	5670	-0.7	-0.7	2.3	7.6	5.3	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5530	-9.5	0.2	-9.3	-9.8	0.2	-9.6
Top	5610	-1.5	0.2	-1.3	-2.0	0.2	-1.8

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-9.3	-9.6	-6.4	7.6	14.0	Complied
Top	5610	-1.3	-1.8	1.5	7.6	6.1	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5500	-3.8	-3.8	-3.8	0.8
Middle	5580	-2.2	-2.2	-2.5	2.3
Top	5700	-2.0	-2.1	-2.4	2.5

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	0.8	6.3	5.5	Complied
Middle	5580	2.3	6.3	4.0	Complied
Top	5700	2.5	6.3	3.8	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5510	-6.1	0.1	-6.0	-5.9	0.1	-5.8
Middle	5590	-1.2	0.1	-1.1	-1.3	0.1	-1.2
Top	5670	-1.2	0.1	-1.1	-1.4	0.1	-1.3

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Bottom	5510	-5.7	0.1	-5.6	-6.0	-5.8	-5.6
Middle	5590	-0.9	0.1	-0.8	-1.1	-1.2	-0.8
Top	5670	-1.0	0.1	-0.9	-1.1	-1.3	-0.9

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-1.2	6.3	7.5	Complied
Middle	5590	3.5	6.3	2.8	Complied
Top	5670	3.5	6.3	2.8	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
106	5530	-8.8	0.2	-8.6	-9.3	0.2	-9.1
122	5610	-3.5	0.2	-3.3	-3.5	0.2	-3.3

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Corrected PSD Core 2 (dBm/MHz)
106	5530	-9.6	0.2	-9.4	-8.6	-9.1	-9.4
122	5610	-3.5	0.2	-3.3	-3.3	-3.3	-3.3

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
106	5530	-4.4	6.3	10.7	Complied
122	5610	1.3	6.3	5.0	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5500	-0.5	-0.4	-0.6	4.0
Middle	5580	2.8	3.0	2.8	7.4
Top	5700	0.6	0.5	-0.1	4.8

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	4.0	11.0	7.0	Complied
Middle	5580	7.4	11.0	3.6	Complied
Top	5700	4.8	11.0	6.2	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5510	-3.9	0.1	-3.8	-3.9	0.1	-3.8
Middle	5590	1.5	0.1	1.6	1.7	0.1	1.8
Top	5670	-0.4	0.1	-0.3	-0.3	0.1	-0.2

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Bottom	5510	-3.8	0.1	-3.7	-3.8	-3.8	-3.7
Middle	5590	2.0	0.1	2.1	1.6	1.8	2.1
Top	5670	-0.2	0.1	-0.1	-0.3	-0.2	-0.1

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	0.7	11.0	10.3	Complied
Middle	5590	6.4	11.0	4.6	Complied
Top	5670	4.4	11.0	6.6	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0x1**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Bottom	5530	-8.0	0.2	-7.8	-8.4	0.2	-8.2
Top	5610	-0.4	0.2	-0.2	0.1	0.2	0.3

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Corrected PSD Core 2 (dBm/MHz)
Bottom	5530	-9.0	0.2	-8.8	-7.8	-8.2	-8.8
Top	5610	-0.6	0.2	-0.4	-0.2	0.3	-0.4

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-3.8	11.0	14.8	Complied
Top	5610	4.3	11.0	6.7	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5500	-2.8	-3.5	-3.8	1.4
Middle	5580	-0.9	-1.4	-1.7	3.5
Top	5700	-2.1	-3.1	-2.6	2.2

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	1.4	6.3	4.9	Complied
Middle	5580	3.5	6.3	2.8	Complied
Top	5700	2.2	6.3	4.1	Complied

Transmitter Maximum Power Spectral Density (5.47-5.725 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5510	-7.2	-7.8	-9.0	-3.2
Middle	5590	-3.2	-3.8	-3.9	1.1
Top	5670	-3.4	-3.6	-3.7	1.2

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5510	-3.2	6.3	9.5	Complied
Middle	5590	1.1	6.3	5.2	Complied
Top	5670	1.2	6.3	5.1	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Bottom	5530	-10.1	-10.3	-10.9	-5.6
Top	5610	-4.3	-4.6	-4.6	0.3

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5530	-5.6	6.3	11.9	Complied
Top	5610	0.3	6.3	6.0	Complied

Transmitter Maximum Power Spectral Density (Straddle channels)**4.5.4. Channels that straddle the U-NII-2C and U-NII-3 bands****Test Summary:**

Test Engineers:	Max Passell & Matthew Botfield	Test Dates:	11 May 2018 & 25 June 2018
Test Sample Serial Numbers:	C02WC003JMFN & C02WC001JTGW		

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):	22 to 24
Relative Humidity (%):	42 to 55

Transmitter Maximum Power Spectral Density (Straddle channels) (continued)**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 complied on U-NII-3.
2. Transmitter Maximum Power Spectral Density tests in all bands were performed using a signal analyser in accordance with KDB 789033 II. F referencing II.E.2.b) Method SA-1 and II.E.2.d) Method SA-2.
3. Measurements were performed using configurations detailed in Section 3.5 of this test report on the relevant channels.
4. For data rates where the EUT was transmitting at <98% duty cycle, the calculated duty cycle in Section 4.1 was added to the measured maximum power spectral density in order to compute the average maximum power spectral density during the actual transmission time.
5. FCC Part 15.407(a)(2) limit for PPSD in the 5.47-5.725 GHz band is <11 dBm/MHz.
6. For MIMO CDD and MIMO STBC modes, 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)a).
7. For MIMO TxBF modes, 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).
8. For SISO modes of operation presented in this section of the test report, the EUT has an antenna gain of 7.4 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 1.4 dB to 9.6 dBm.
9. For 2Tx CDD and 2 Tx TxBF modes of operation presented in this section of the test report, 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.
10. For 3Tx CDD and 3Tx TxBF modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 10.7 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 4.7 dB to 6.3 dBm.
11. For 2Tx STBC modes of operation presented in this section of the test report, 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.
12. For details on antenna gains refer to Section 3.4 of this test report.
13. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.
14. 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 4.4 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.
15. The EUT with serial number C02WC003JMFN was used for non-TxBF tests, the EUT with serial C02WC001JTGW number was used for TxBF tests.

Transmitter Maximum Power Spectral Density (Straddle channels) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0**

Channel	Frequency (MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	6.4	9.6	3.2	Complied

Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	6.0	9.6	3.6	Complied

Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	5.3	0.1	5.4	9.6	4.2	Complied

Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	2.8	0.2	3.0	9.6	6.6	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	1.4	1.4	4.3	7.6	3.3	Complied

Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5710	1.6	0.1	1.7	1.5	0.1	1.6

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	1.7	1.6	4.6	7.6	3.0	Complied

Transmitter Maximum Power Spectral Density (Straddle channels) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Single	5690	-0.2	0.2	0.0	-0.5	0.2	-0.3

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	0.0	-0.3	2.8	7.6	4.8	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	4.5	4.4	7.3	10.6	3.3	Complied

Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Single	5710	3.3	0.1	3.4	3.1	0.1	3.2

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	3.4	3.2	6.2	10.6	4.4	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0x1

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Single	5690	0.4	0.2	0.6	0.3	0.2	0.5

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	0.6	0.5	3.5	10.6	7.1	Complied

Transmitter Maximum Power Spectral Density (Straddle channels) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Single	5720	2.6	0.2	2.8	1.9	0.2	2.1

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	2.8	2.1	5.5	7.6	2.1	Complied

Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Single	5710	0.2	0.2	0.4	-0.4	0.2	-0.2

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	0.4	-0.2	3.1	7.6	4.5	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm /MHz)
Single	5690	-0.3	0.2	-0.1	-1.2	0.2	-1.0

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm/MHz)	Corrected PSD Core 0 (dBm/MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	-0.1	-1.0	2.5	7.6	5.1	Complied

Transmitter Maximum Power Spectral Density (Straddle channels) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Single	5720	-2.1	-2.1	-2.6	2.4

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	2.4	6.3	3.9	Complied

Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5710	-1.3	0.1	-1.2	-1.7	0.1	-1.6

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Single	5710	-1.6	0.1	-1.5	-1.2	-1.6	-1.5

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	3.2	6.3	3.1	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5690	-2.1	0.2	-1.9	-2.3	0.2	-2.1

Channel	Frequency (MHz)	Core 2			Cores 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Single	5690	-2.4	0.2	-2.2	-1.9	-2.1	-2.2

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	2.6	6.3	3.7	Complied

Transmitter Maximum Power Spectral Density (Straddle channels) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Single	5720	2.9	3.1	2.8	7.5

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	7.5	11.0	3.5	Complied

Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5710	1.6	0.1	1.7	1.7	0.1	1.8

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Single	5710	1.4	0.1	1.5	1.7	1.8	1.5

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	6.4	11.0	4.6	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)
Single	5690	0.1	0.2	0.3	0.3	0.2	0.5

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm/MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm/MHz)	Corrected PSD Core 1 (dBm /MHz)	Corrected PSD Core 0 (dBm /MHz)	Corrected PSD Core 2 (dBm /MHz)
Single	5690	-0.3	0.2	-0.1	0.3	0.5	-0.1

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	4.7	11.0	6.3	Complied

Transmitter Maximum Power Spectral Density (Straddle channels) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Single	5720	-1.7	-1.8	-2.0	2.9

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5720	2.9	6.3	3.4	Complied

Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Single	5710	-2.5	-3.2	-3.1	1.8

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5710	1.8	6.3	4.5	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm/MHz)	PSD Core 0 (dBm/MHz)	PSD Core 2 (dBm/MHz)	Combined PSD (dBm/MHz)
Single	5690	-3.9	-4.4	-4.6	0.5

Channel	Frequency (MHz)	Combined PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Single	5690	0.5	6.3	5.8	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band)**4.5.5. 5.725-5.85 GHz band****Test Summary:**

Test Engineers:	Max Passell & Matthew Botfield	Test Dates:	11 May 2018 & 25 June 2018
Test Sample Serial Numbers:	C02WC003JMFN & C02WC001JTGW		

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):	22 to 24
Relative Humidity (%):	42 to 55

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Note(s):**

1. Transmitter Maximum Power Spectral Density tests in all bands were performed using a signal analyser 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 using configurations detailed in Section 3.5 of this test report on the relevant channels.
3. For data rates where the EUT was transmitting at <98% duty cycle, the calculated duty cycle in Section 4.1 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. FCC Part 15.407(a)(3) limit for PPSD in the 5.725-5.85 GHz operating band is <30 dBm/500 kHz.
5. For MIMO CDD and MIMO STBC modes, 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)a).
6. For MIMO TxBF modes, 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).
7. 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.
8. For STBC modes of operation, the antenna gain is < 6 dBi.
9. For SISO modes of operation presented in this section of the test report, the EUT has an antenna gain of 6.3 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 0.3 dB to 29.7 dBm.
10. For 2Tx CDD and 2Tx TxBF modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 8.5 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 2.5 dB to 27.5 dBm.
11. For 3Tx CDD and 3Tx TxBF modes of operation presented in this section of the test report, the EUT has a directional antenna gain of 9.8 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 3.8 dB to 26.2 dBm.
12. For details on antenna gains refer to Section 3.4 of this test report.
13. The signal analyser was connected to the RF port on the EUT using an RF switch, suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.
14. 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 4.4 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.
15. The EUT with serial number C02WC003JMFN was used for non-TxBF tests, the EUT with serial C02WC001JTGW number was used for TxBF tests.

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0**

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5745	10.1	29.7	19.6	Complied
Middle	5785	9.7	29.7	20.0	Complied
Top	5825	9.3	29.7	20.4	Complied

Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5745	9.8	29.7	19.9	Complied
Middle	5785	9.2	29.7	20.5	Complied
Top	5825	8.9	29.7	20.8	Complied

Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5755	6.5	0.1	6.6	29.7	23.1	Complied
Top	5795	6.2	0.1	6.3	29.7	23.4	Complied

Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0

Channel	Frequency (MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Single	5775	-1.0	0.2	-0.8	29.7	30.5	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm / 1 MHz)	PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5745	8.5	8.0	11.1	27.5	16.4	Complied
Middle	5785	9.5	9.2	12.1	27.5	15.4	Complied
Top	5825	8.8	8.9	11.8	27.5	15.7	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
151	5755	3.9	0.1	4.0	3.8	0.1	3.9
159	5795	6.3	0.1	6.4	6.1	0.1	6.2

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
151	5755	4.0	3.9	6.9	27.5	20.6	Complied
159	5795	6.4	6.2	9.2	27.5	18.3	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
155	5775	-1.5	0.2	-1.3	-1.4	0.2	-1.2

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
155	5775	-1.3	-1.2	1.7	27.5	25.8	Complied

Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm / 1 MHz)	PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5745	8.4	8.2	11.2	30.0	18.8	Complied
Middle	5785	9.3	9.1	12.1	30.0	17.9	Complied
Top	5825	8.9	8.8	11.8	30.0	18.2	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5755	3.9	0.1	4.0	3.8	0.1	3.9
Top	5795	6.3	0.1	6.4	6.3	0.1	6.4

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5755	4.0	3.9	6.9	30.0	23.1	Complied
Top	5795	6.4	6.4	9.2	30.0	20.8	Complied

Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Single	5775	-1.7	0.2	-1.5	-1.5	0.2	-1.3

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Single	5775	-1.5	-1.3	1.6	30.0	28.4	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5745	8.1	0.2	8.3	7.6	0.2	7.8
Middle	5785	10.1	0.2	10.3	9.9	0.2	10.1
Top	5825	10.1	0.2	10.3	10.5	0.2	10.7

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5745	8.3	7.8	11.1	27.5	16.4	Complied
Middle	5785	10.3	10.1	13.2	27.5	14.3	Complied
Top	5825	10.3	10.7	13.5	27.5	14.0	Complied

Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5755	3.0	0.2	3.2	2.8	0.2	3.0
Top	5795	6.3	0.2	6.5	5.9	0.2	6.1

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5755	3.2	3.0	6.1	27.5	21.4	Complied
Top	5795	6.5	6.1	9.3	27.5	18.2	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Single	5775	-2.2	0.2	-2.1	-2.5	0.2	-2.3

Channel	Frequency (MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Single	5775	-2.1	-2.3	0.8	27.5	26.7	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm / 1 MHz)	PSD Core 0 (dBm / 1 MHz)	PSD Core 2 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)
Bottom	5745	8.6	8.1	8.0	12.9
Middle	5785	9.3	9.3	9.1	13.8
Top	5825	8.7	8.9	8.6	13.3

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5745	12.9	26.2	13.3	Complied
Middle	5785	13.8	26.2	12.4	Complied
Top	5825	13.3	26.2	12.9	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5755	3.3	0.1	3.4	3.1	0.1	3.2
Top	5795	6.2	0.1	6.3	6.2	0.1	6.3

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 2 (dBm / 1 MHz)
Bottom	5755	2.7	0.1	2.8	3.4	3.2	2.8
Top	5795	6.2	0.1	6.3	6.3	6.3	6.3

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5755	7.8	26.2	18.4	Complied
Top	5795	11.0	26.2	15.2	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Single	5775	-3.5	0.2	-3.3	-3.4	0.2	-3.2

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 2 (dBm / 1 MHz)
Single	5775	-4.1	0.2	-3.9	-3.3	-3.2	-3.9

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Single	5775	1.1	26.2	25.1	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm / 1 MHz)	PSD Core 0 (dBm / 1 MHz)	PSD Core 2 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)
Bottom	5745	7.5	7.4	7.3	12.0
Middle	5785	9.3	9.3	9.1	13.8
Top	5825	8.7	8.8	8.6	13.3

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5745	12.0	30.0	18.0	Complied
Middle	5785	13.8	30.0	16.2	Complied
Top	5825	13.3	30.0	16.7	Complied

Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Bottom	5755	3.2	0.1	3.3	3.0	0.1	3.1
Top	5795	6.4	0.1	6.5	6.2	0.1	6.3

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 2 (dBm / 1 MHz)
Bottom	5755	2.6	0.1	2.7	3.3	3.1	2.7
Top	5795	6.3	0.1	6.4	6.5	6.3	6.4

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5755	7.6	30.0	22.4	Complied
Top	5795	11.0	30.0	19.0	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0**

Channel	Frequency (MHz)	Core 1			Core 0		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)
Single	5775	-1.9	0.2	-1.7	-1.4	0.2	-1.2

Channel	Frequency (MHz)	Core 2			Core 1, Core 0 & Core 2		
		PSD (dBm / 1 MHz)	Duty cycle correction factor (dB)	Corrected PSD (dBm / 1 MHz)	Corrected PSD Core 1 (dBm / 1 MHz)	Corrected PSD Core 0 (dBm / 1 MHz)	Corrected PSD Core 2 (dBm / 1 MHz)
Single	5775	-2.0	0.2	-1.8	-1.7	-1.2	-1.8

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Single	5775	2.9	30.0	27.1	Complied

Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm / 1 MHz)	PSD Core 0 (dBm / 1 MHz)	PSD Core 2 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)
Bottom	5745	8.1	6.7	7.6	12.3
Middle	5785	6.8	7.2	6.7	11.7
Top	5825	7.6	6.9	6.3	11.7

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5745	12.3	26.2	13.9	Complied
Middle	5785	11.7	26.2	14.5	Complied
Top	5825	11.7	26.2	14.5	Complied

Transmitter Maximum Power Spectral Density (5.725-5.85 GHz band) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0**

Channel	Frequency (MHz)	PSD Core 1 (dBm / 1 MHz)	PSD Core 0 (dBm / 1 MHz)	PSD Core 2 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)
Bottom	5755	1.3	1.0	1.2	5.9
Top	5795	3.5	3.5	3.3	8.2

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Bottom	5755	5.9	26.2	20.3	Complied
Top	5795	8.2	26.2	18.0	Complied

Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0

Channel	Frequency (MHz)	PSD Core 1 (dBm / 1 MHz)	PSD Core 0 (dBm / 1 MHz)	PSD Core 2 (dBm / 1 MHz)	Combined PSD (dBm / 1 MHz)
Single	5775	-4.5	-4.5	-5.0	0.1

Channel	Frequency (MHz)	Combined PSD (dBm / 1 MHz)	Limit (dBm / 500 kHz)	Margin (dB)	Result
Single	5775	0.1	26.2	26.1	Complied

5. Radiated Test Results

5.1. Transmitter Out of Band Radiated Emissions <1 GHz

Test Summary:

Test Engineer:	Alan Withers	Test Date:	16 May 2018
Test Sample Serial Number:	C02WC00DJMFL		

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:

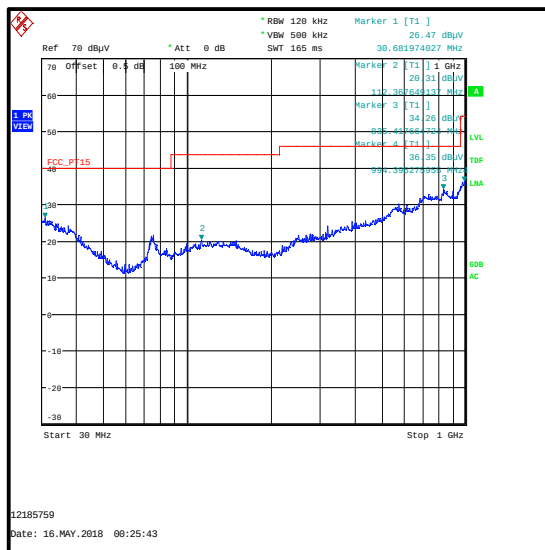
Temperature (°C):	23
Relative Humidity (%):	41

Note(s):

1. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor and cable loss.
2. Pre-scans were performed with the EUT transmitting in the band 5.725 to 5.85 GHz band with a configuration of 802.11n / HT20 / MCS0 / MIMO on middle channel in this band as it produced the highest power spectral density and was therefore deemed worst case. An inquiry was made to the FCC and the response was pre-scans could be performed in the band with the highest power spectral density and all final measurements should be performed on any emissions seen in each band.
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 120 kHz and video bandwidth 500 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.

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

Frequency (MHz)	Antenna Polarity	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
994.395	Vertical	36.4	54.0	17.6	Complied



5.2. Transmitter Out of Band Radiated Emissions >1 GHz

5.2.1. 5.15-5.25 GHz band

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation)

Test Summary:

Test Engineers:	James O'Reilly & Andrew Edwards	Test Dates:	19 May 2018 & 26 May 2018
Test Sample Serial Numbers:	C02WC00DJMFL & C02VP00AJLDY		

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 24
Relative Humidity (%):	42 to 45

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. In accordance with ANSI C63.10-2013 Section 6.5.4, emissions more than 20 dB below the limit do not need to be reported.
3. Pre-scans were performed with the EUT transmitting in the band 5.725 to 5.85 GHz band with a data rate of 802.11n / HT20 / MCS0 / MIMO on middle channel in this band as it produced the highest power spectral density and was therefore deemed worst case. An inquiry was made to the FCC and the response was pre-scans could be performed in the band with the highest power spectral density and all final measurements should be performed on any emissions seen in each band.
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. Measurements above 1 GHz were performed in a fully anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres 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.
7. All other 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.

Transmitter Out of Band Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Bottom Channel / EIRP**

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5611.800	Vertical	-36.1	-27.0	9.1	Complied

Results: Middle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5633.057	Vertical	-34.80	-27.0	7.8	Complied

Results: Top Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5676.593	Vertical	-35.5	-27.0	8.5	Complied

5.2.2. 5.25-5.35 GHz band**Transmitter Out of Band Radiated Emissions (5.25-5.35 GHz band operation)****Test Summary:**

Test Engineers:	James O'Reilly & Andrew Edwards	Test Dates:	19 May 2018 & 26 May 2018
Test Sample Serial Numbers:	C02WC00DJMFL & C02VP00AJLDY		

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 24
Relative Humidity (%):	42 to 44

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. In accordance with ANSI C63.10-2013 Section 6.5.4, emissions more than 20 dB below the limit do not need to be reported.
3. Pre-scans were performed with the EUT transmitting in the band 5.725 to 5.85 GHz band with a data rate of 802.11n / HT20 / MCS0 / MIMO on middle channel in this band as it produced the highest power spectral density and was therefore deemed worst case. An inquiry was made to the FCC and the response was pre-scans could be performed in the band with the highest power spectral density and all final measurements should be performed on any emissions seen in each band.
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. Measurements above 1 GHz were performed in a fully anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres 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.
7. All other 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.

Results: Bottom Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5698.401	Vertical	-37.2	-27.0	10.2	Complied

Results: Middle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5720.297	Vertical	-36.8	-27.0	9.8	Complied

5.2.3. 5.47-5.725 GHz band**Transmitter Out of Band Radiated Emissions (5.47-5.725 GHz band operation)****Test Summary:**

Test Engineers:	James O'Reilly & Mark Perry	Test Dates:	24 March 2018 & 26 May 2018
Test Sample Serial Numbers:	C02WC00DJMFL & C02VP00AJLDY		

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 24
Relative Humidity (%):	42 to 44

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. In accordance with ANSI C63.10-2013 Section 6.5.4, emissions more than 20 dB below the limit do not need to be reported.
3. Pre-scans were performed with the EUT transmitting in the band 5.725 to 5.85 GHz band with a data rate of 802.11n / HT20 / MCS0 / MIMO on middle channel in this band as it produced the highest power spectral density and was therefore deemed worst case. An inquiry was made to the FCC and the response was pre-scans could be performed in the band with the highest power spectral density and all final measurements should be performed on any emissions seen in each band.
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. Measurements above 1 GHz were performed in a fully anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres 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.
7. All other 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.

Results: Middle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5208.058	Vertical	-35.6	-27.0	8.6	Complied

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

Test Engineer:	James O'Reilly	Test Date:	26 May 2018
Test Sample Serial Numbers:	C02WC00DJMFL		

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):	24
Relative Humidity (%):	44

Note(s):

1. KDB 789033 Section III.B.2.b)(iii) states "Straddle channels are considered to be operating in both U-NII-2C and U-NII-3. The worst case out of band emission i.e. -27 dBm/MHz peak EIRP, applies at the band edges. The band edges are considered to be 5.47 GHz and 5.85 GHz.
2. In accordance with ANSI C63.10-2013 Section 6.5.4, emissions more than 20 dB below the limit do not need to be reported.
3. Pre-scans were performed with the EUT transmitting in the band 5.725 to 5.85 GHz band with a data rate of 802.11n / HT20 / MCS0 / MIMO on middle channel in this band as it produced the highest power spectral density and was therefore deemed worst case. An inquiry was made to the FCC and the response was pre-scans could be performed in the band with the highest power spectral density and all final measurements should be performed on any emissions seen in each band.
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. Measurements above 1 GHz were performed in a fully anechoic chamber (Asset Number K0017) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres 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.

Results: Straddle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5442.308	Vertical	-39.5	-27.0	12.5	Complied

5.2.5. 5.725-5.85 GHz band**Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation)****Test Summary:**

Test Engineers:	James O'Reilly, Alan Withers, Tom Sleigh & Mohamed Toubella	Test Dates:	14 May 2018 to 31 May 2018
Test Sample Serial Numbers:	C02WC00DJMFL & C02VP00AJLDY		

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 24
Relative Humidity (%):	42 to 44

Transmitter Out of Band Radiated Emissions (5.725-5.85 GHz band operation) (continued)**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. In accordance with ANSI C63.10-2013 Section 6.5.4, emissions more than 20 dB below the limit do not need to be reported.
3. Pre-scans were performed with the EUT transmitting in the band 5.725 to 5.85 GHz band with a data rate of 802.11n / HT20 / MCS0 / MIMO on middle channel in this band as it produced the highest power spectral density and was therefore deemed worst case. An inquiry was made to the FCC and the response was pre-scans could be performed in the band with the highest power spectral density and all final measurements should be performed on any emissions seen in each band.
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. The emission shown on the 4 GHz to 6 GHz is the EUT fundamental.
7. Measurements were performed across the two restricted bands closest to the bands of operation with the EUT transmitting on the bottom channel in the 5.15 to 5.25 GHz band and top channel 5.25 to 5.35 GHz range. 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.
9. 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 metres 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.
10. All other 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.

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

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5319.000	Vertical	-36.1	-27.0	9.1	Complied
5539.571	Vertical	-33.0	-27.0	6.0	Complied

Results: Middle Channel / EIRP

Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5578.621	Vertical	-30.4	-27.0	3.4	Complied

Results: Middle Channel / Field Strength

Frequency (MHz)	Antenna Polarity	Peak Level (dB μ V/m)	Peak Limit (dB μ V/m)	Margin (dB)	Result
5356.675	Vertical	60.9	74.0	13.1	Complied

Frequency (MHz)	Antenna Polarity	Average Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
5356.675	Vertical	51.2	54.0	2.8	Complied

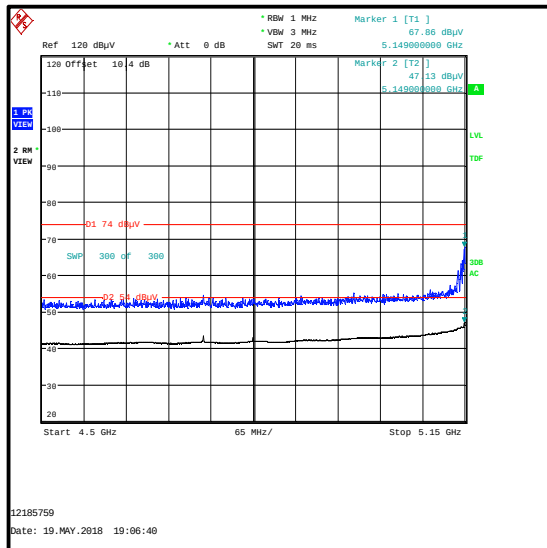
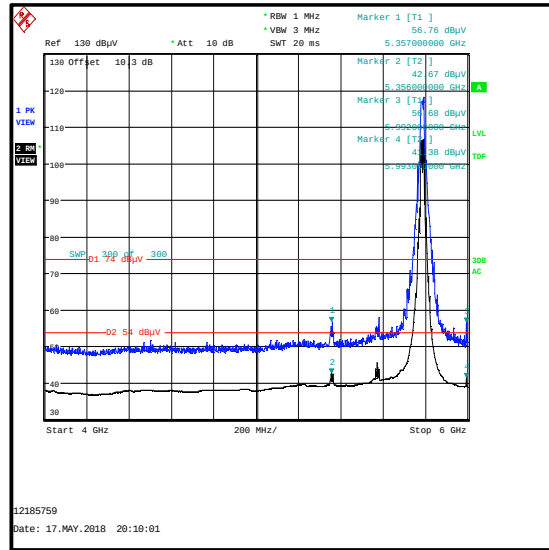
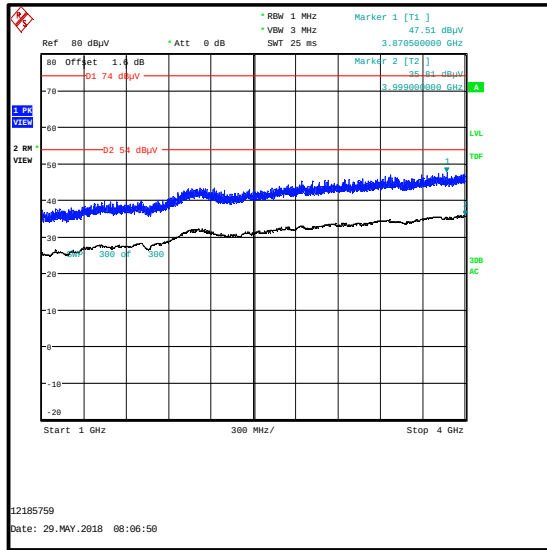
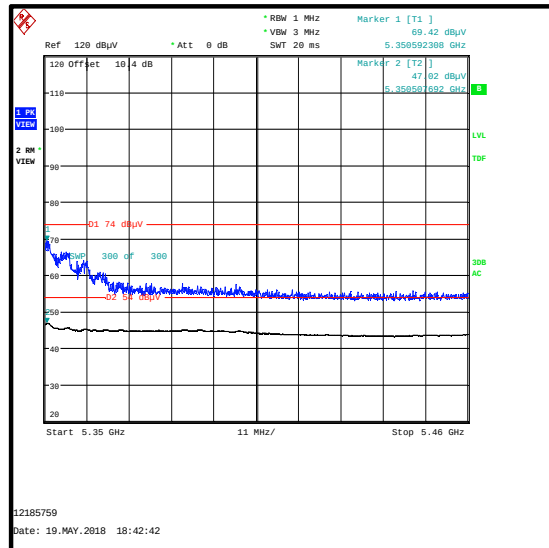
Results: Top Channel / EIRP

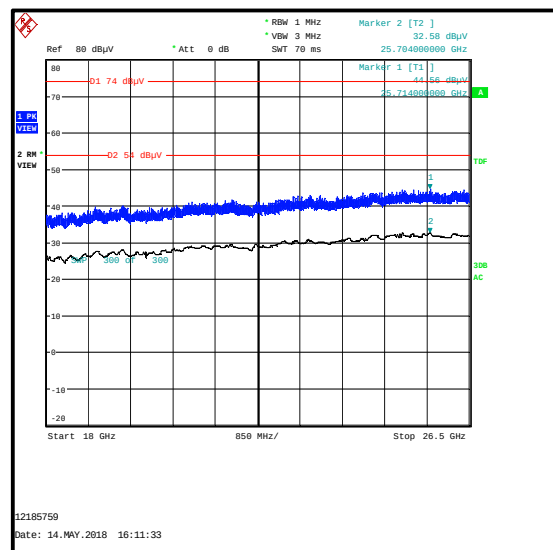
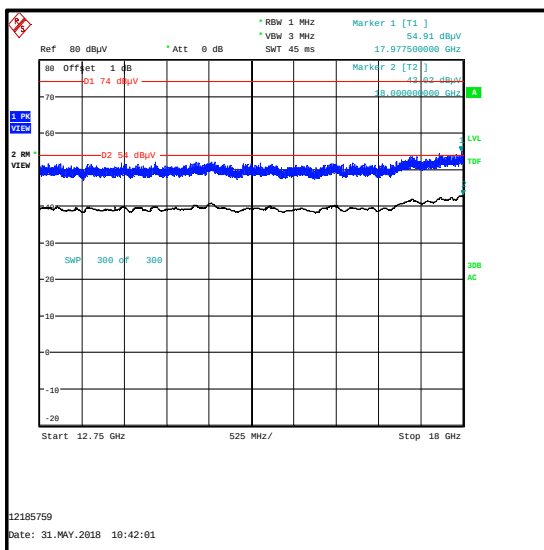
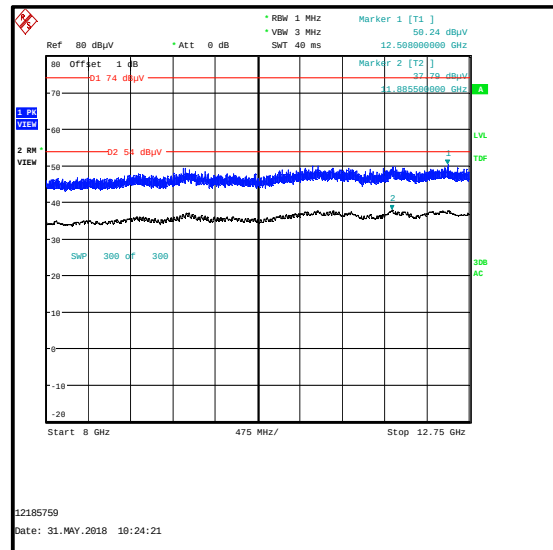
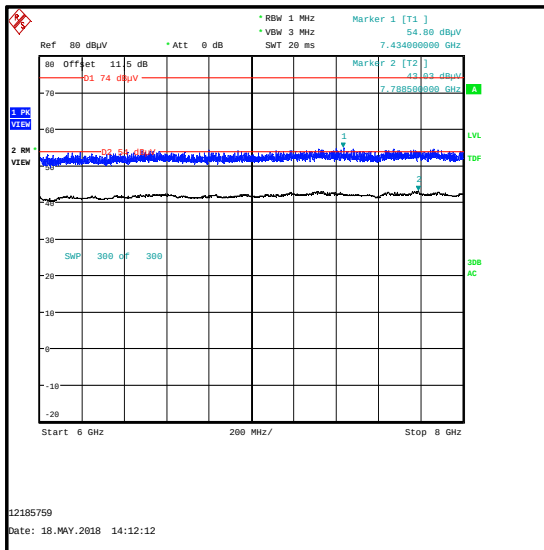
Frequency (MHz)	Antenna Polarity	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5616.928	Vertical	-32.2	-27.0	5.2	Complied

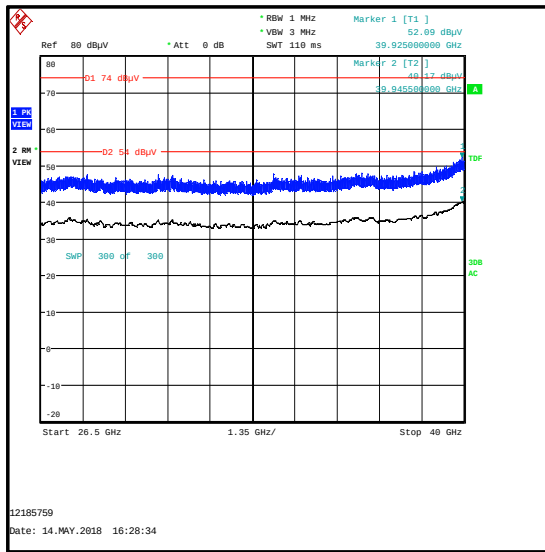
Results: Top Channel / Field Strength

Frequency (MHz)	Antenna Polarity	Peak Level (dB μ V/m)	Peak Limit (dB μ V/m)	Margin (dB)	Result
5392.579	Vertical	61.4	74.0	12.6	Complied

Frequency (MHz)	Antenna Polarity	Average Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
5392.579	Vertical	50.7	54.0	3.3	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)

5.3. Transmitter Band Edge Radiated Emissions**5.3.1. 5.15-5.25 GHz band****Test Summary:**

Test Engineers:	James O'Reilly, Alan Withers John Ferdinand, Tom Sleigh & Andrew Edwards	Test Dates:	02 January 2018 to 30 May 2018
Test Sample Serial Numbers:	C02WC006JTGW & C02VP00AJLDY		

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):	21 to 24
Relative Humidity (%):	43 to 51

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Note(s):**

1. The following modes were tested:
 - o 802.11a - BPSK / 6 Mbps / Core 0
 - o 802.11n HT20 / SISO - BPSK / MCS0 / Core 0
 - o 802.11n HT40 / SISO - BPSK / MCS0 / Core 0
 - o 802.11ac VHT80 / SISO – BPSK / MCS0x1 / Core 0
 - o 802.11n HT20 / MIMO / 2Tx CDD - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 2Tx CDD - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 2Tx CDD - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 2Tx STBC - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 2Tx STBC - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 2Tx STBC - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 2Tx TxBF - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 2Tx TxBF - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 2Tx TxBF - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 3Tx CDD - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 3Tx CDD - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 3Tx CDD - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 3Tx STBC - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 3Tx STBC - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 3Tx STBC - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 3Tx TxBF - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 3Tx TxBF - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 3Tx TxBF - BPSK / MCS0x1
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 5.15-5.25 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. Tests were performed in these restricted bands of operation, the results are included in the transmitter 5.725-5.85 GHz band radiated spurious emission section of this test report.
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.1.c) if the peak measurement is below the average limit, it is not necessary to perform a separate average measurement.
6. For all average measurements in this section, 300 sweeps were used. This satisfies the requirement for the minimum number of sweep points, as stated in KDB 789033 Section II.G.6.c) Method AD (vi).
7. 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 4.1 was added to the measured result.

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5147.949	67.8	74.0	6.2	Complied
5150	66.8	74.0	7.2	Complied

Results: Upper Band Edge / Peak

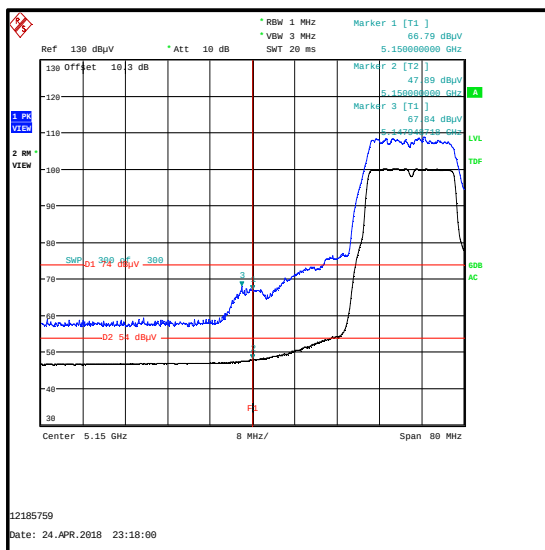
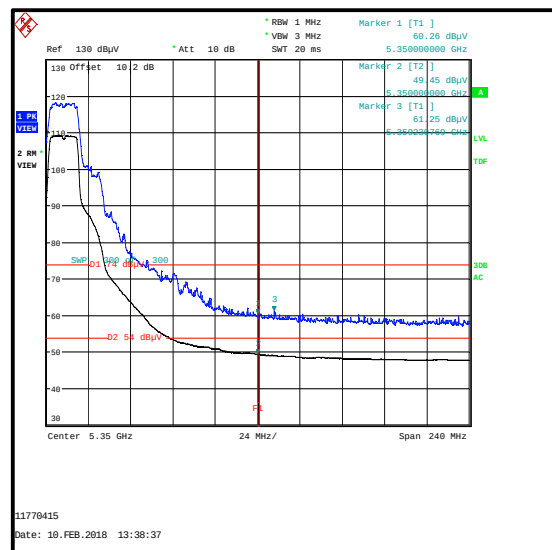
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	60.3	74.0	13.7	Complied
5359.231	61.3	74.0	12.7	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	47.9	54.0	6.1	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	49.5	54.0	4.5	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5148.077	67.7	74.0	6.3	Complied
5150	65.3	74.0	8.7	Complied

Results: Upper Band Edge / Peak

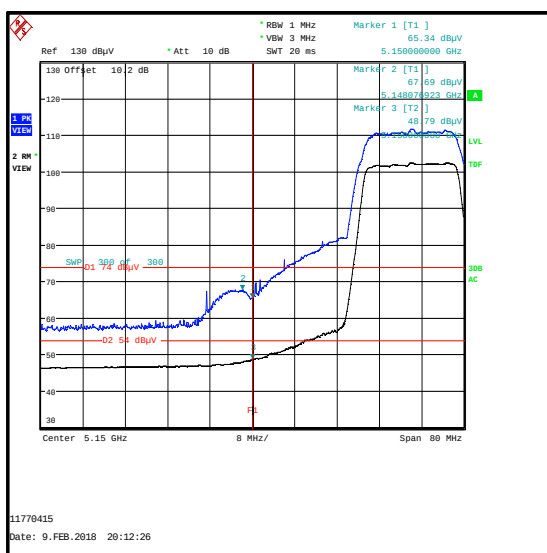
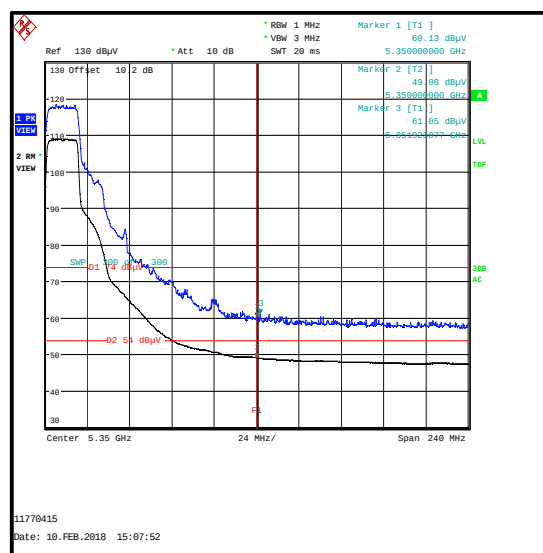
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	60.1	74.0	13.9	Complied
5351.923	61.1	74.0	12.9	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	48.8	54.0	5.2	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	49.1	54.0	4.9	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5149.038	67.7	74.0	6.3	Complied
5150	66.8	74.0	7.2	Complied

Results: Upper Band Edge / Peak

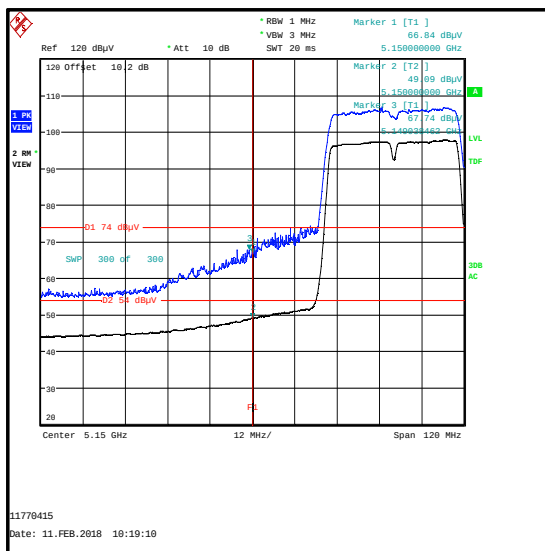
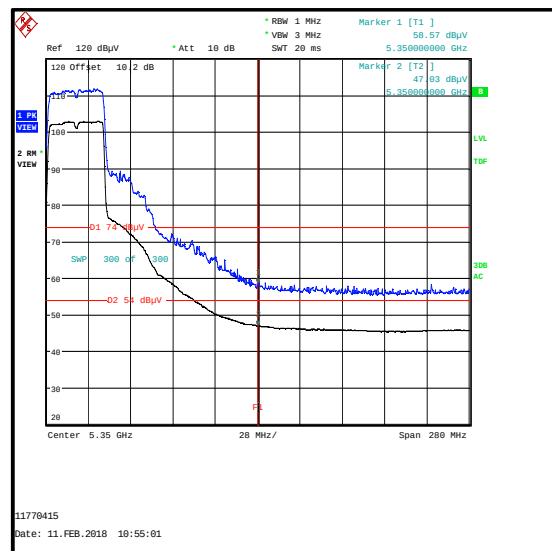
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	58.6	74.0	15.4	Complied

Results: Lower Band Edge / 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	49.1	0.1	49.2	54.0	4.8	Complied

Results: Upper Band Edge / 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
5350	47.0	0.1	47.1	54.0	6.9	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5142.949	65.0	74.0	9.0	Complied
5150	62.3	74.0	11.7	Complied

Results: Upper Band Edge / Peak

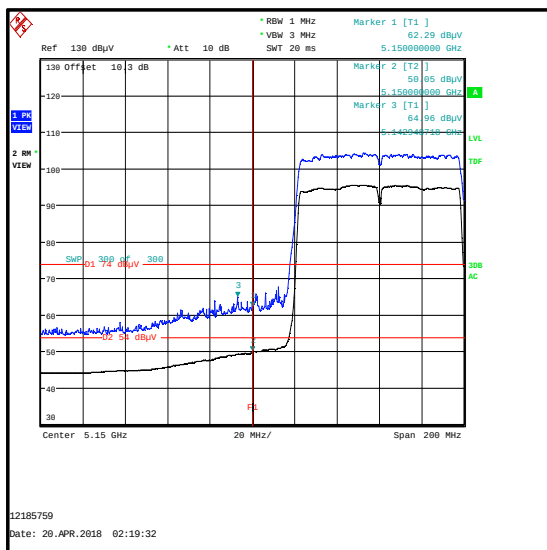
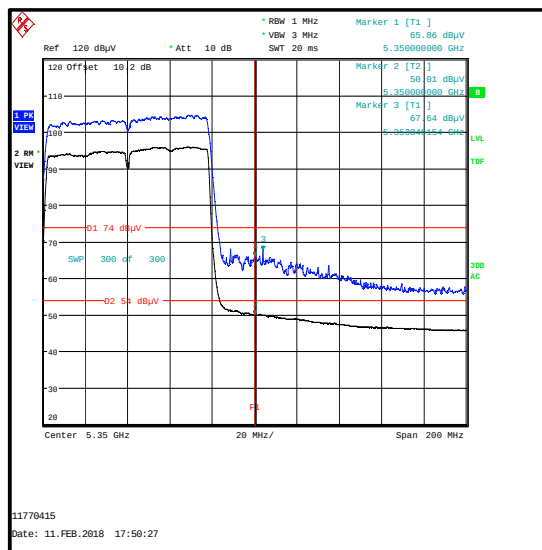
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	65.8	74.0	8.2	Complied
5353.846	67.6	74.0	6.4	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	50.1	0.2	50.3	54.0	3.7	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	50.0	0.2	50.2	54.0	3.8	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5148.846	68.9	74.0	5.1	Complied
5150	65.4	74.0	8.6	Complied

Results: Upper Band Edge / Peak

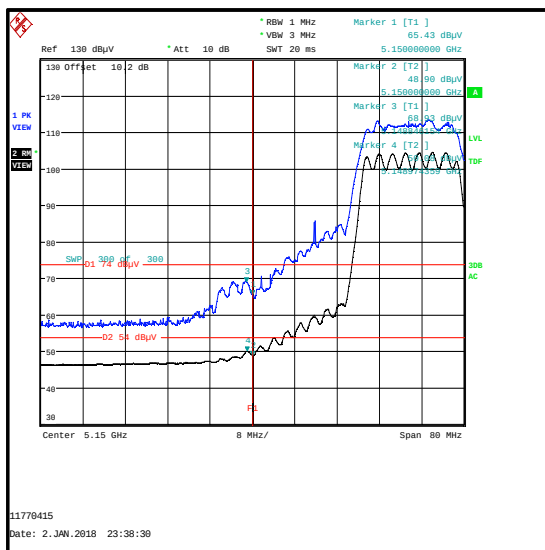
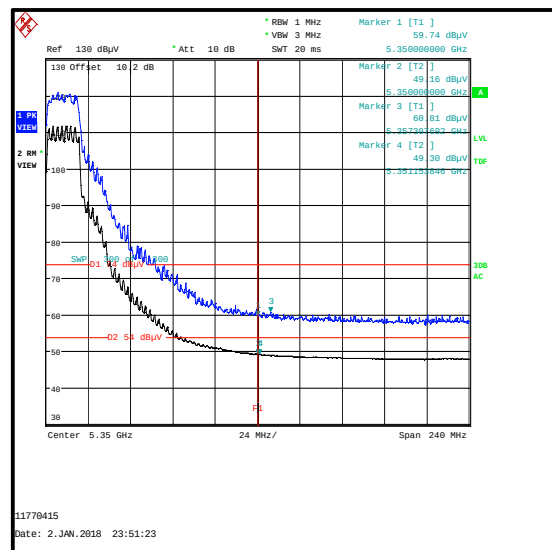
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	59.7	74.0	14.3	Complied
5357.308	60.8	74.0	13.2	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5148.974	50.1	54.0	3.9	Complied
5150	48.9	54.0	5.1	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	49.2	54.0	4.8	Complied
5351.154	49.3	54.0	4.7	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5149.808	68.7	74.0	5.3	Complied
5150	66.0	74.0	8.0	Complied

Results: Upper Band Edge / Peak

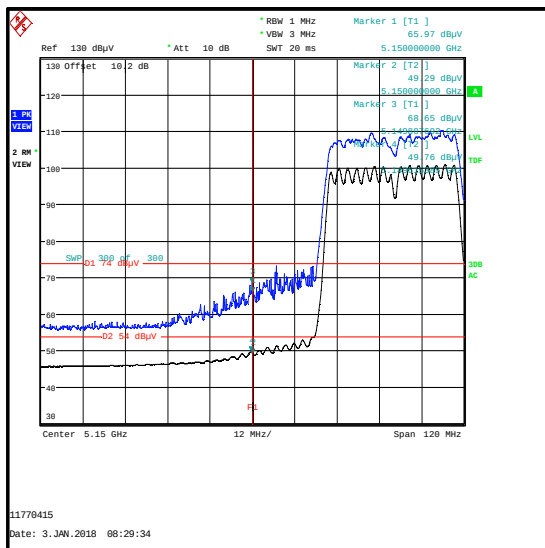
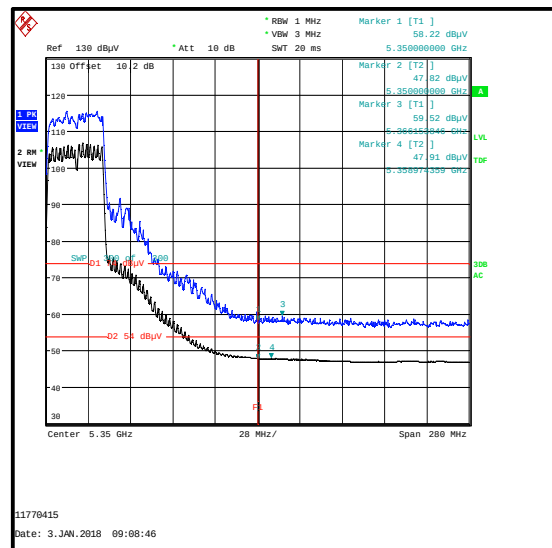
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	58.2	74.0	15.8	Complied
5366.154	59.5	74.0	14.5	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5149.615	49.8	0.1	49.9	54.0	4.1	Complied
5150	49.3	0.1	49.4	54.0	4.6	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.8	0.1	47.9	54.0	6.1	Complied
5358.974	47.9	0.1	48.0	54.0	6.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	66.2	74.0	7.8	Complied

Results: Upper Band Edge / Peak

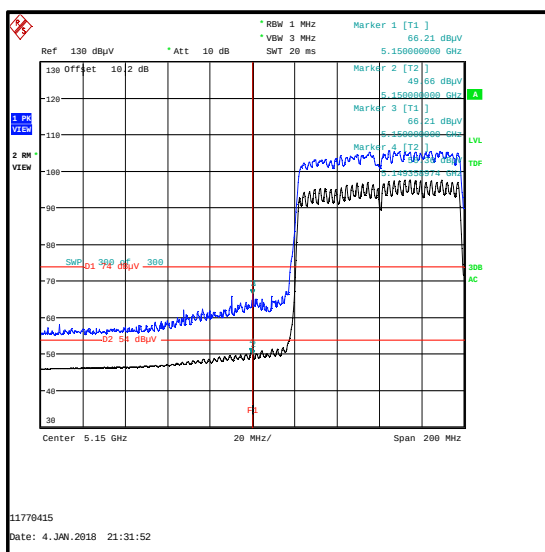
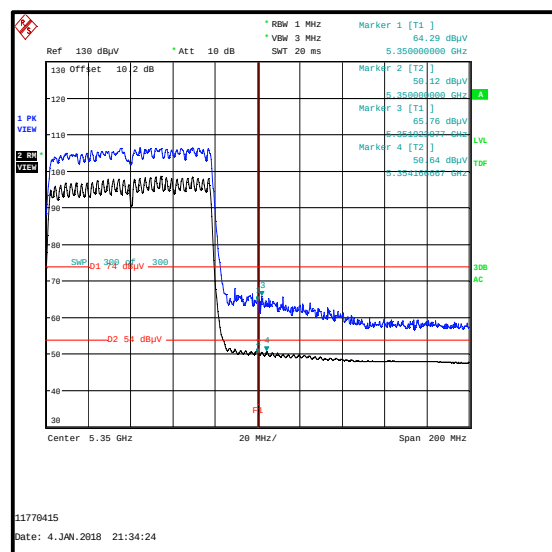
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	64.3	74.0	9.7	Complied
5351.923	65.8	74.0	8.2	Complied

Results: Lower Band Edge / 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
5149.359	50.4	0.2	50.6	54.0	3.4	Complied
5150	49.7	0.2	49.9	54.0	4.1	Complied

Results: Upper Band Edge / 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
5350	50.1	0.2	50.3	54.0	3.7	Complied
5354.167	50.6	0.2	50.8	54.0	3.2	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5148.718	69.3	74.0	4.7	Complied
5150	66.8	74.0	7.2	Complied

Results: Upper Band Edge / Peak

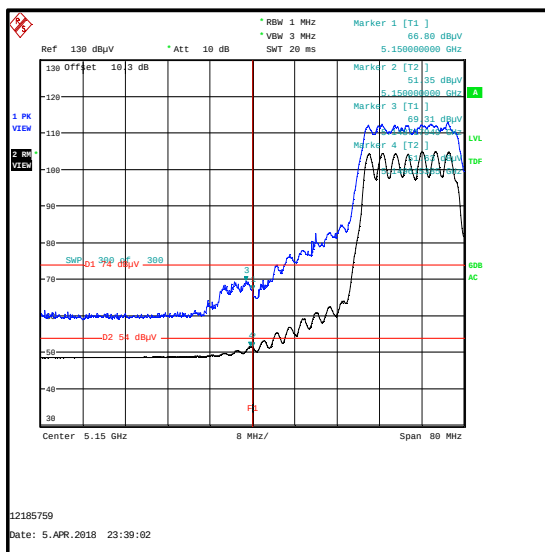
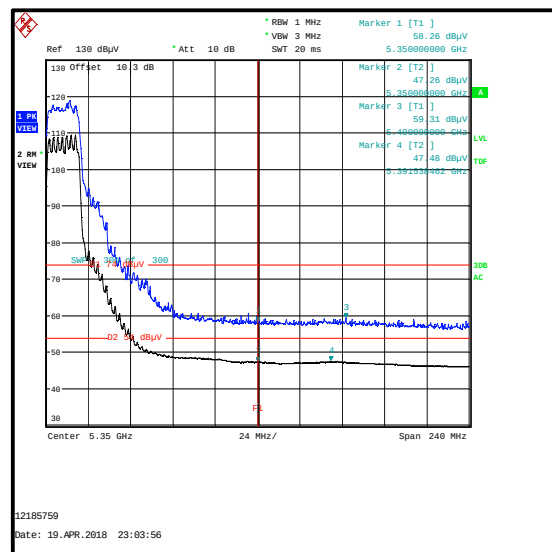
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	58.3	74.0	15.7	Complied
5400	59.3	74.0	14.7	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5149.615	51.6	54.0	2.4	Complied
5150	51.4	54.0	2.6	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.3	54.0	6.7	Complied
5391.538	47.5	54.0	6.5	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	67.5	74.0	6.5	Complied

Results: Upper Band Edge / Peak

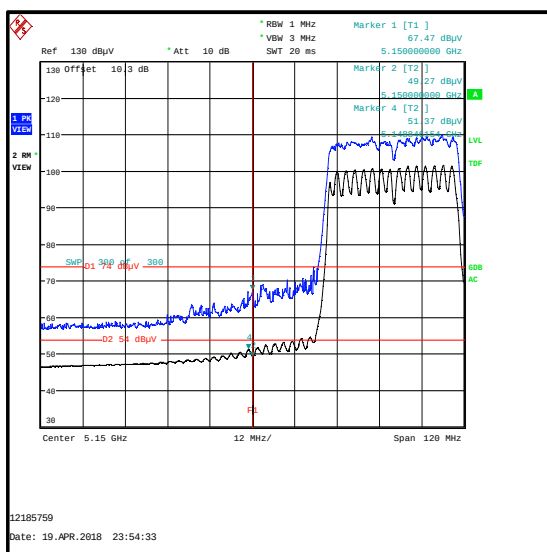
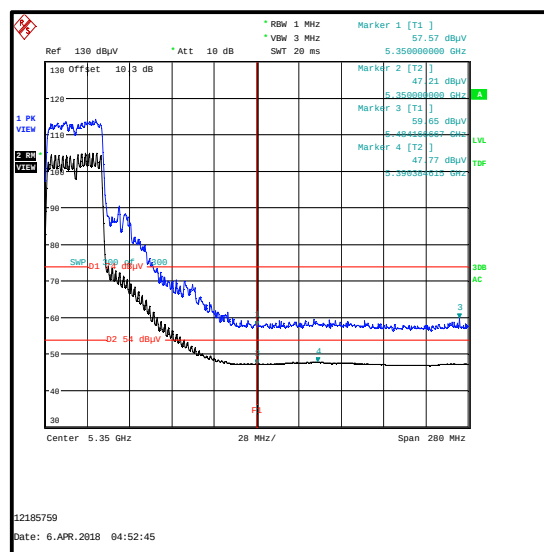
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	57.6	74.0	16.4	Complied
5484.167	59.7	74.0	14.3	Complied

Results: Lower Band Edge / 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
5148.846	51.4	0.1	51.5	54.0	2.5	Complied
5150	49.3	0.1	49.4	54.0	4.6	Complied

Results: Upper Band Edge / 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
5350	47.2	0.1	47.3	54.0	6.7	Complied
5390.305	47.8	0.1	47.9	54.0	6.1	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5148.718	60.1	74.0	13.9	Complied
5150	57.3	74.0	16.7	Complied

Results: Upper Band Edge / Peak

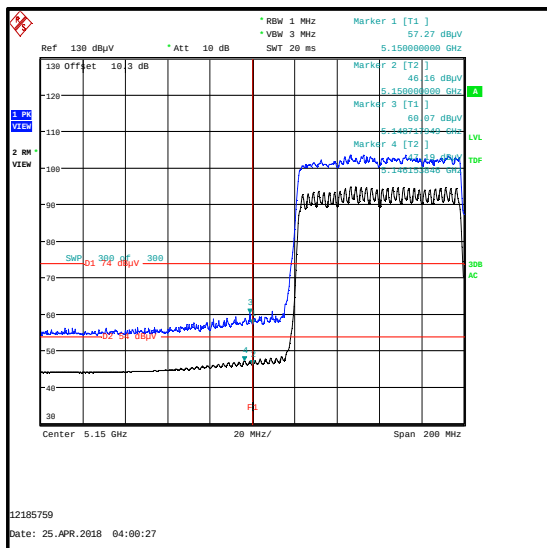
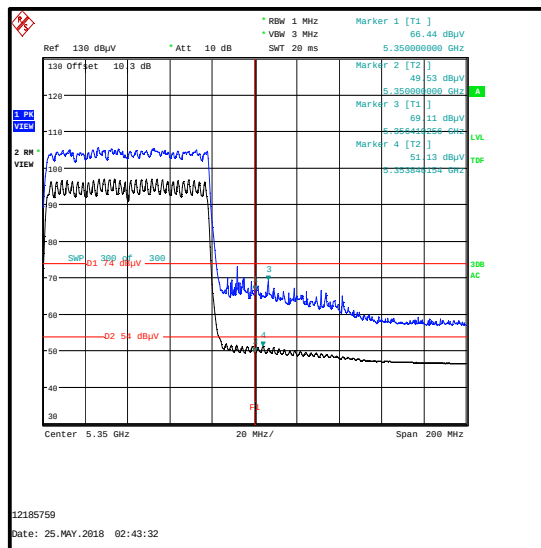
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	66.4	74.0	7.6	Complied
5356.410	69.1	74.0	4.9	Complied

Results: Lower Band Edge / 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
5146.154	47.2	0.2	47.4	54.0	6.6	Complied
5150	46.2	0.2	46.4	54.0	7.6	Complied

Results: Upper Band Edge / 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
5350	49.5	0.2	49.7	54.0	4.3	Complied
5353.846	51.1	0.2	51.3	54.0	2.7	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5148.462	68.4	74.0	5.6	Complied
5150	67.8	74.0	6.2	Complied

Results: Upper Band Edge / Peak

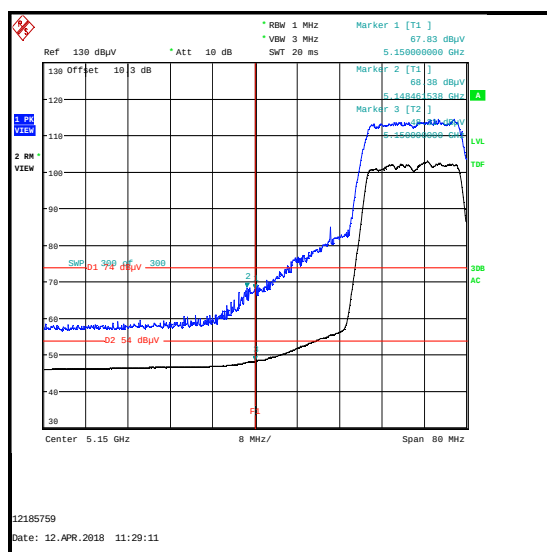
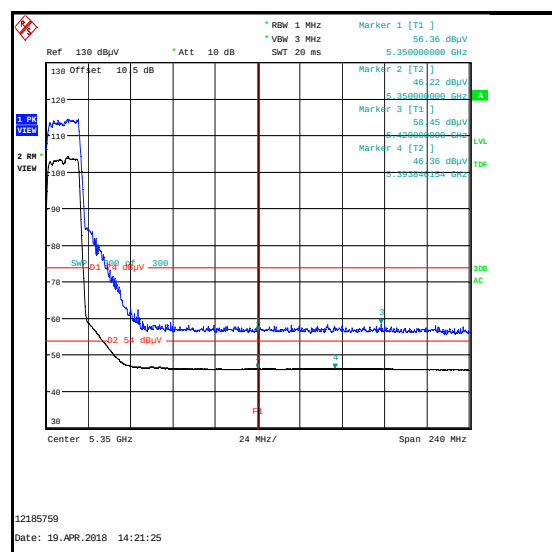
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	56.4	74.0	17.6	Complied
5430.000	58.5	74.0	15.5	Complied

Results: Lower Band Edge / 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	48.3	0.2	48.5	54.0	5.5	Complied

Results: Upper Band Edge / 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
5350	46.2	0.2	46.4	54.0	7.6	Complied
5393.846	46.4	0.2	46.6	54.0	7.4	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5149.231	69.2	74.0	4.8	Complied
5150	67.5	74.0	6.5	Complied

Results: Upper Band Edge / Peak

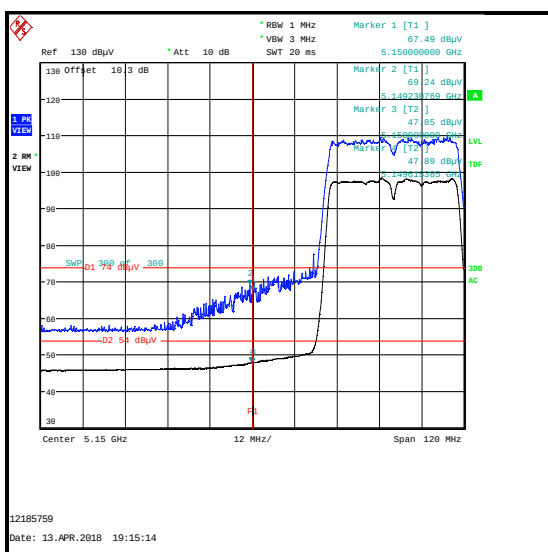
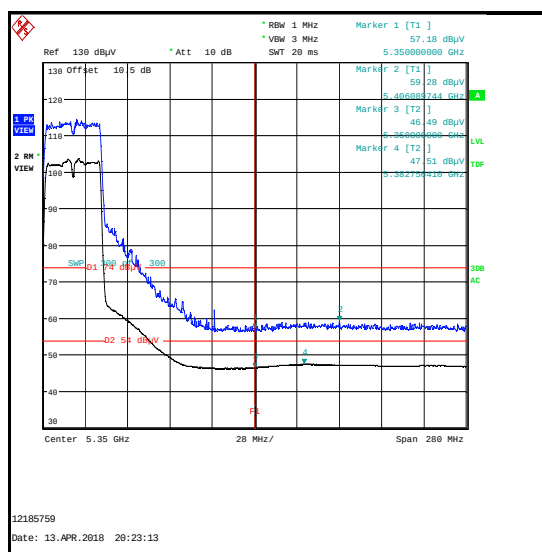
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	57.2	74.0	16.8	Complied
5406.090	59.3	74.0	14.7	Complied

Results: Lower Band Edge / 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	47.9	0.2	48.1	54.0	5.9	Complied

Results: Upper Band Edge / 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
5350	46.5	0.2	46.7	54.0	7.3	Complied
5382.756	47.5	0.2	47.7	54.0	6.3	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5147.436	60.2	74.0	13.8	Complied
5150	59.3	74.0	14.7	Complied

Results: Upper Band Edge / Peak

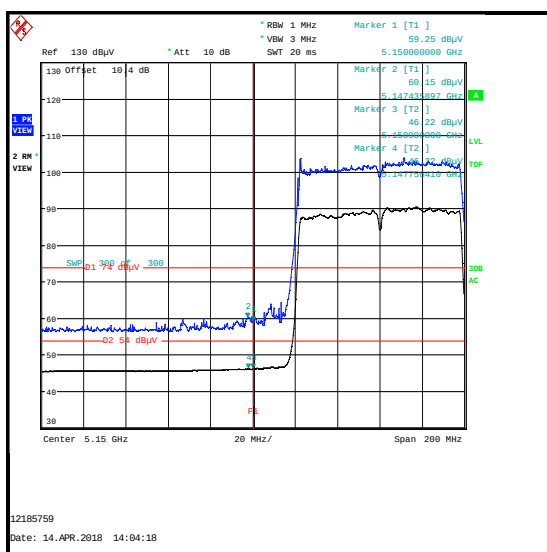
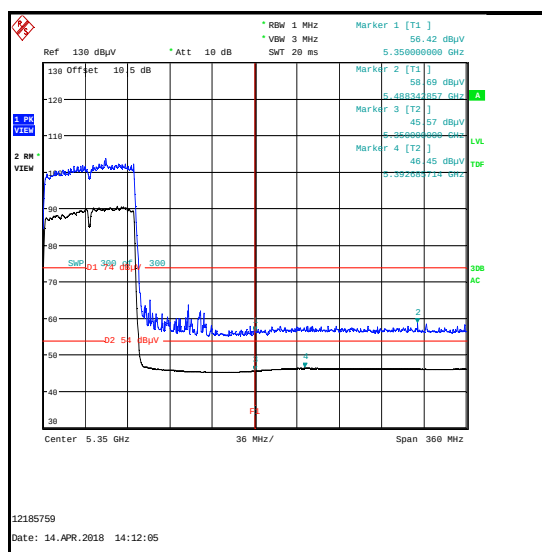
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	56.4	74.0	17.6	Complied
5488.343	58.7	74.0	15.3	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	46.2	0.2	46.4	54.0	7.6	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	45.6	0.2	45.8	54.0	8.2	Complied
5392.686	46.5	0.2	46.7	54.0	7.3	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5147.851	69.2	74.0	4.8	Complied
5150	65.6	74.0	8.4	Complied

Results: Upper Band Edge / Peak

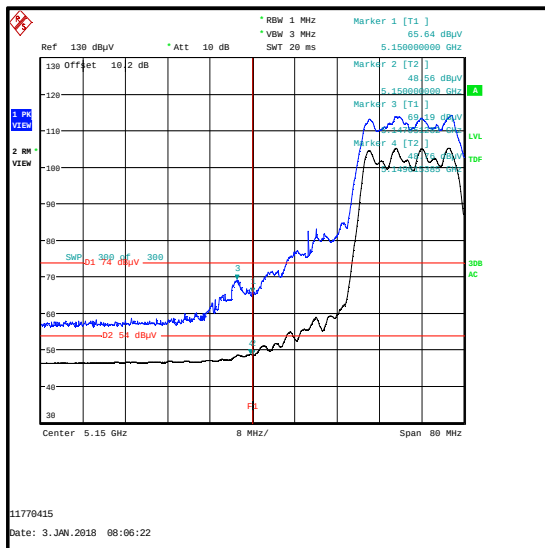
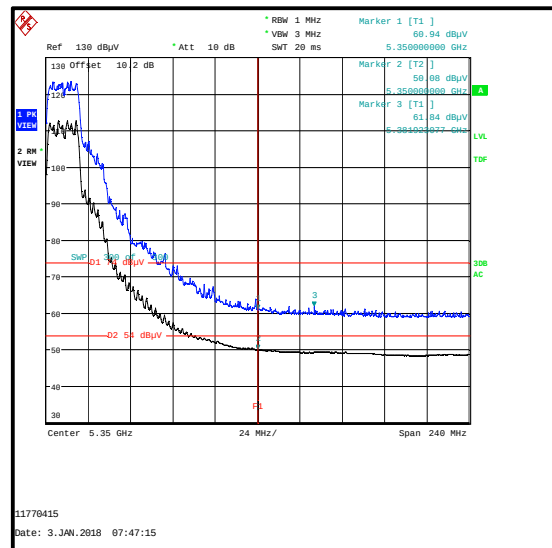
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	60.9	74.0	13.1	Complied
5381.923	61.8	74.0	12.2	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5149.615	48.8	54.0	5.2	Complied
5150	48.6	54.0	5.4	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	50.1	54.0	3.9	Complied

**Lower Band Edge Peak****Upper Band Edge**

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5147.692	68.8	74.0	5.2	Complied
5150	68.6	74.0	5.4	Complied

Results: Upper Band Edge / Peak

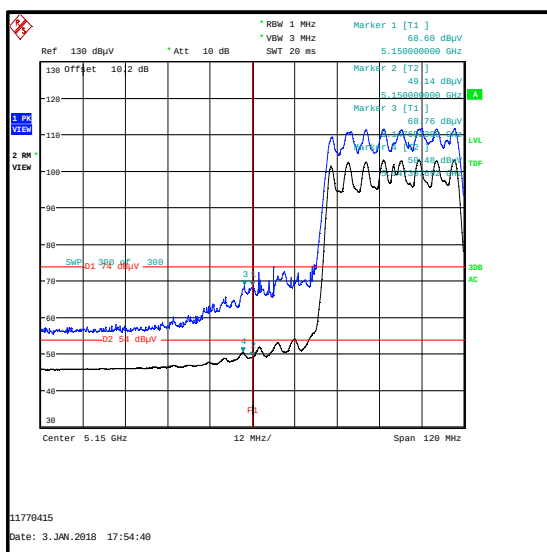
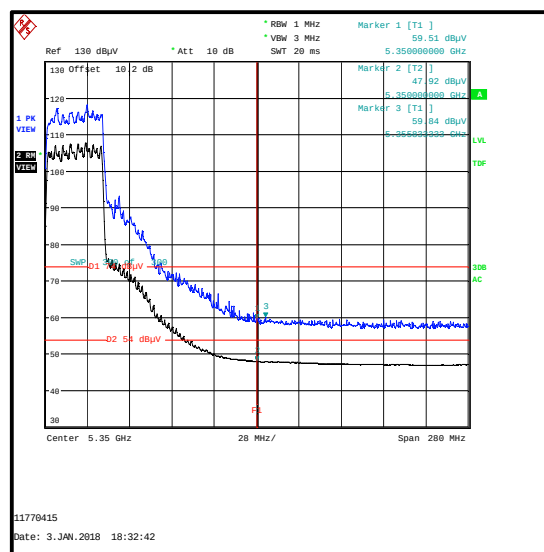
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	59.5	74.0	14.5	Complied
5355.833	59.8	74.0	14.2	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5147.308	50.5	0.1	50.6	54.0	3.4	Complied
5150	49.1	0.1	49.2	54.0	4.8	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.9	0.1	48.0	54.0	6.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5138.141	65.2	74.0	8.8	Complied
5150	62.1	74.0	11.9	Complied

Results: Upper Band Edge / Peak

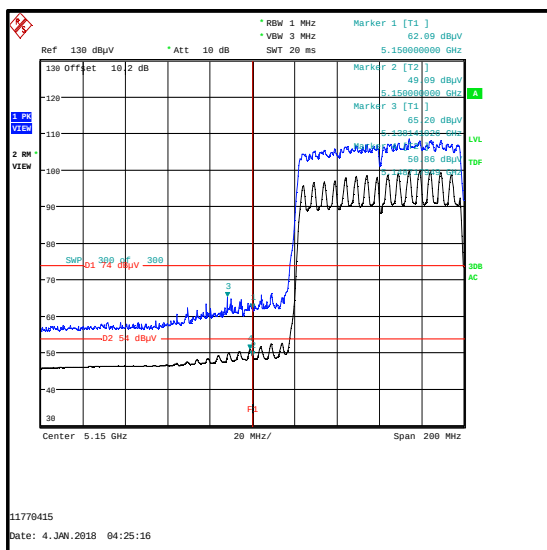
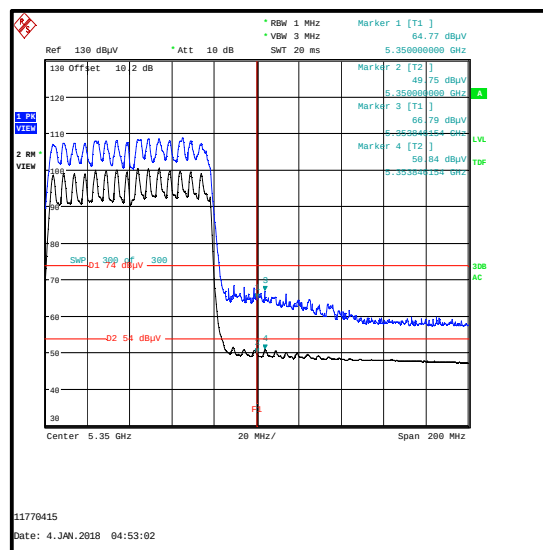
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	64.8	74.0	9.2	Complied
5353.846	66.8	74.0	7.2	Complied

Results: Lower Band Edge / 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
5140.718	50.9	0.2	51.1	54.0	2.9	Complied
5150	49.1	0.2	49.3	54.0	4.7	Complied

Results: Upper Band Edge / 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
5350	49.8	0.2	50.0	54.0	4.0	Complied
5353.846	50.8	0.2	51.0	54.0	3.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5148.462	67.7	74.0	6.3	Complied
5150	65.7	74.0	8.3	Complied

Results: Upper Band Edge / Peak

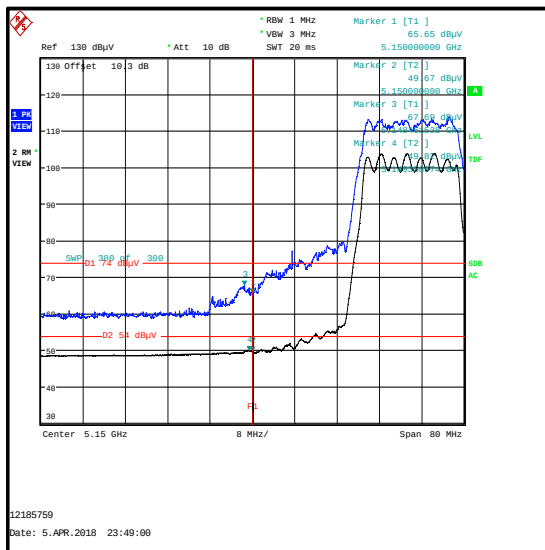
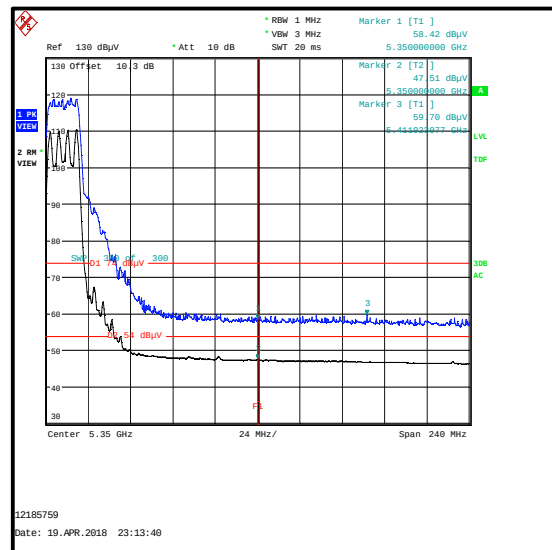
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	58.4	74.0	15.6	Complied
5411.923	59.7	74.0	14.3	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5149.359	49.8	54.0	4.2	Complied
5150	49.7	54.0	4.3	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	47.5	54.0	6.5	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5149.615	62.0	74.0	12.0	Complied
5150	59.4	74.0	14.6	Complied

Results: Upper Band Edge / Peak

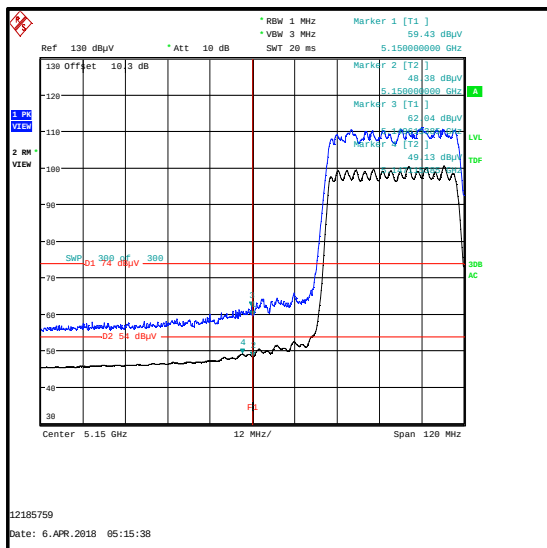
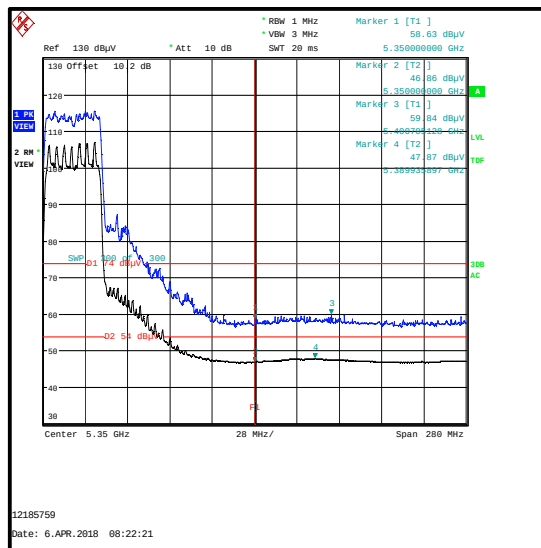
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	58.6	74.0	15.4	Complied
5400.705	59.8	74.0	14.2	Complied

Results: Lower Band Edge / 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
5147.115	49.1	0.1	49.2	54.0	4.8	Complied
5150	48.4	0.1	48.5	54.0	5.5	Complied

Results: Upper Band Edge / 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
5350	46.9	0.1	47.0	54.0	7.0	Complied
5389.936	47.9	0.1	48.0	54.0	6.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5148.718	64.3	74.0	9.7	Complied
5150	63.6	74.0	10.4	Complied

Results: Upper Band Edge / Peak

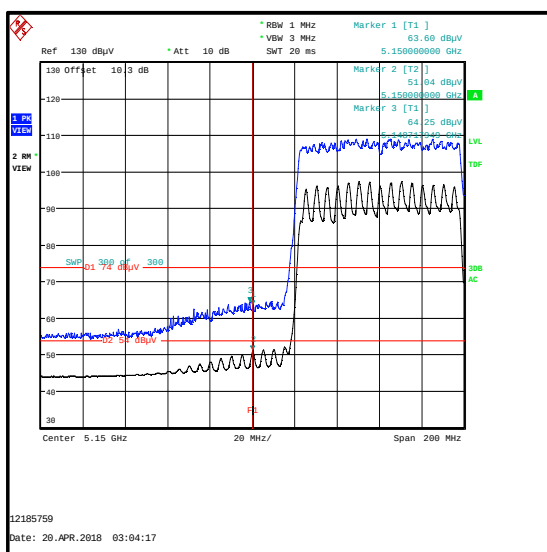
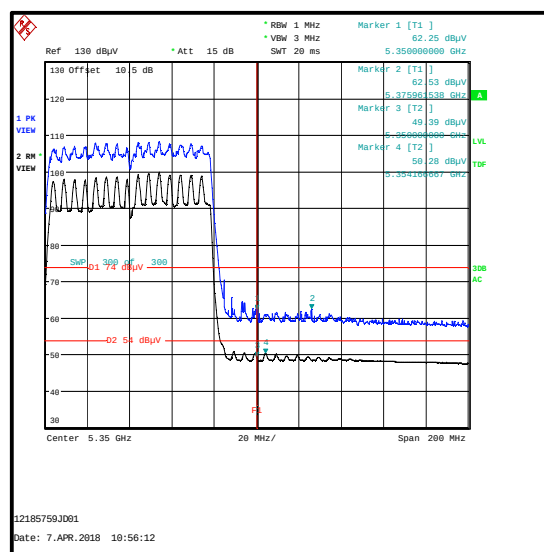
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	62.3	74.0	11.7	Complied
5375.962	62.5	74.0	11.5	Complied

Results: Lower Band Edge / 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	51.0	0.2	51.2	54.0	2.8	Complied

Results: Upper Band Edge / 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
5350	49.4	0.2	49.6	54.0	4.4	Complied
5354.167	50.3	0.2	50.5	54.0	3.5	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5149.872	66.0	74.0	8.0	Complied
5150	63.4	74.0	10.6	Complied

Results: Upper Band Edge / Peak

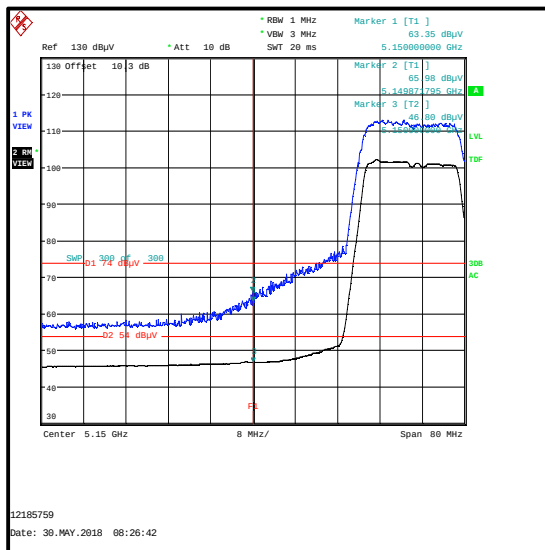
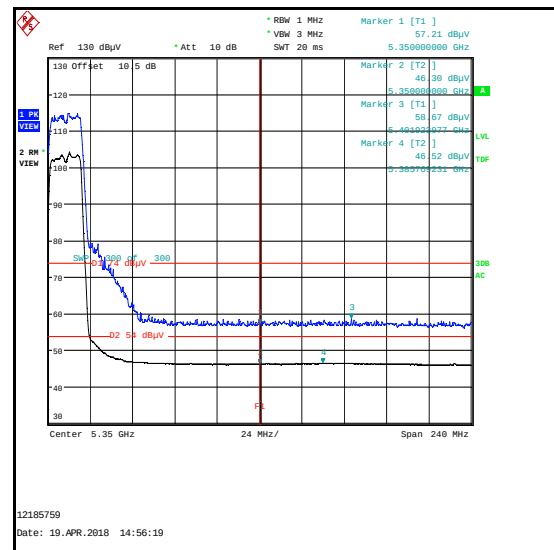
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	57.2	74.0	16.8	Complied
5401.923	58.7	74.0	15.3	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	46.8	54.0	7.2	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	46.3	54.0	7.7	Complied
5385.769	46.5	54.0	7.5	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5143.269	60.0	74.0	14.0	Complied
5150	58.7	74.0	15.3	Complied

Results: Upper Band Edge / Peak

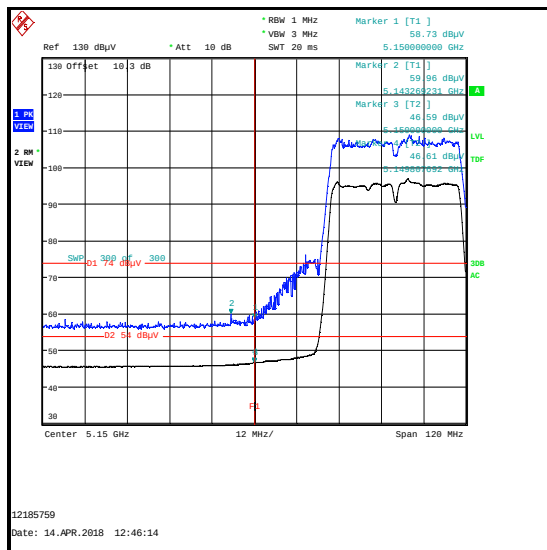
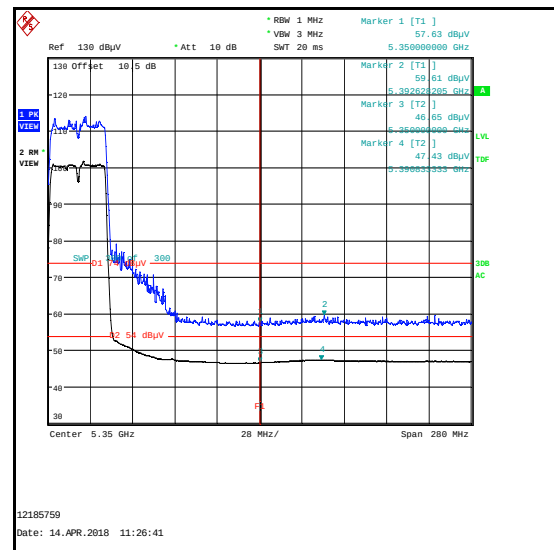
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	57.6	74.0	16.4	Complied
5392.628	59.6	74.0	14.4	Complied

Results: Lower Band Edge / Average

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

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	46.7	54.0	7.3	Complied
5390.833	47.4	54.0	6.6	Complied

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

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5145.833	65.0	74.0	9.0	Complied
5150	61.0	74.0	13.0	Complied

Results: Upper Band Edge / Peak

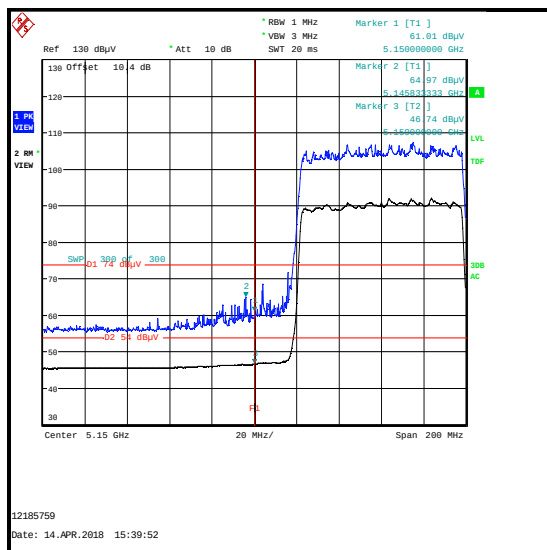
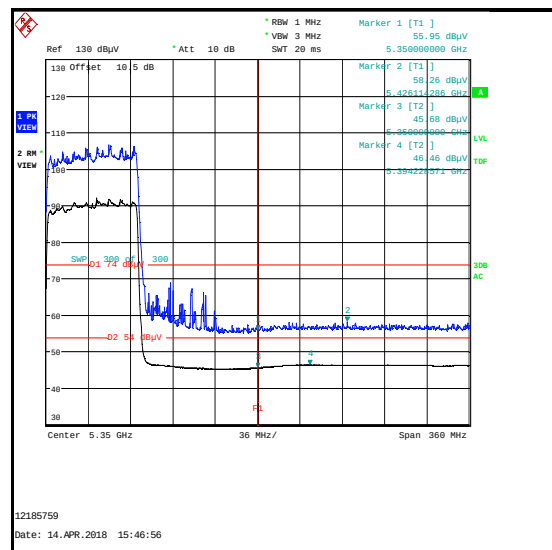
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	56.0	74.0	18.0	Complied
5426.114	58.3	74.0	15.7	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	46.7	54.0	7.3	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	45.7	54.0	8.3	Complied
5394.229	46.5	54.0	7.5	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band)**5.3.2. 5.25-5.35 GHz band****Test Summary:**

Test Engineers:	James O'Reilly, Alan Withers Andrew Edwards, Tom Sleigh & John, Ferdinand	Test Dates:	03 January 2018 to 25 May 2018
Test Sample Serial Numbers:	C02WC006JTGW & C02VP00AJLDY		

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):	21 to 24
Relative Humidity (%):	43 to 51

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Note(s):**

1. The following modes were tested:
 - o 802.11a - BPSK / 6 Mbps / Core 0
 - o 802.11n HT20 / SISO - BPSK / MCS0 / Core 0
 - o 802.11n HT40 / SISO - BPSK / MCS0 / Core 0
 - o 802.11ac VHT80 / SISO – BPSK / MCS0x1 / Core 0
 - o 802.11n HT20 / MIMO / 2Tx CDD - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 2Tx CDD - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 2Tx CDD - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 2Tx STBC - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 2Tx STBC - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 2Tx STBC - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 2Tx TxBF - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 2Tx TxBF - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 2Tx TxBF - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 3Tx CDD - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 3Tx CDD - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 3Tx CDD - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 3Tx STBC - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 3Tx STBC - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 3Tx STBC - BPSK / MCS0x1
 - o 802.11n HT20 / MIMO / 3Tx TxBF - BPSK / MCS0
 - o 802.11n HT40 / MIMO / 3Tx TxBF - BPSK / MCS0
 - o 802.11ac VHT80 / MIMO / 3Tx TxBF - BPSK / MCS0x1
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 5.25-5.35 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. Tests were performed in these restricted bands of operation with the EUT transmitting on the bottom and top channels within 5.25-5.35 GHz band, the results are included in the transmitter 5.725-5.85 GHz band radiated spurious emissions section of this test report.
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. For all average measurements in this section, 300 sweeps were used. This satisfies the requirement for the minimum number of sweep points, as stated in KDB 789033 Section II.G.6.c) Method AD (vi).
6. 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 4.1 was added to the measured result.

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5138.462	58.3	74.0	15.7	Complied
5150	57.5	74.0	16.5	Complied

Results: Upper Band Edge / Peak

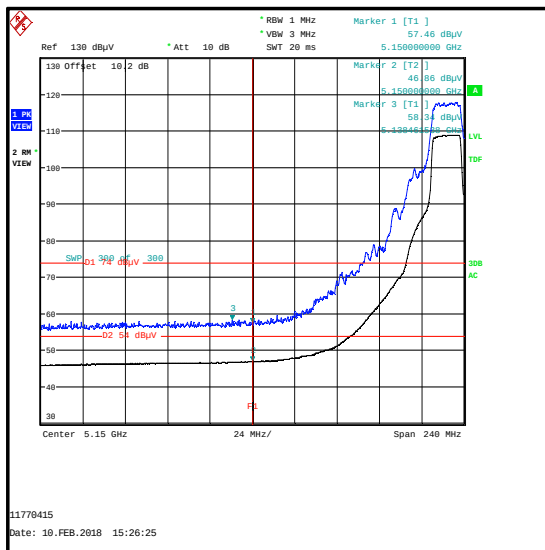
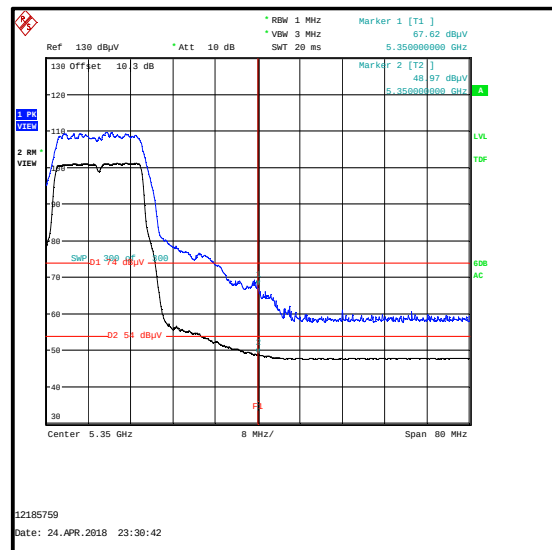
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	67.6	74.0	6.4	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	46.9	54.0	7.1	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	49.0	54.0	5.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5134.231	58.6	74.0	15.4	Complied
5150	57.9	74.0	16.1	Complied

Results: Upper Band Edge / Peak

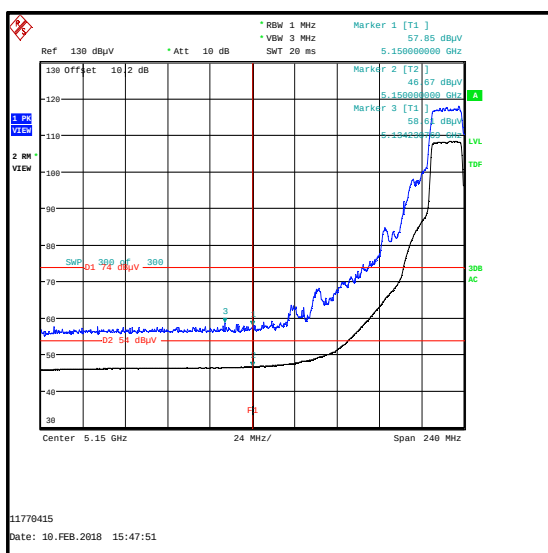
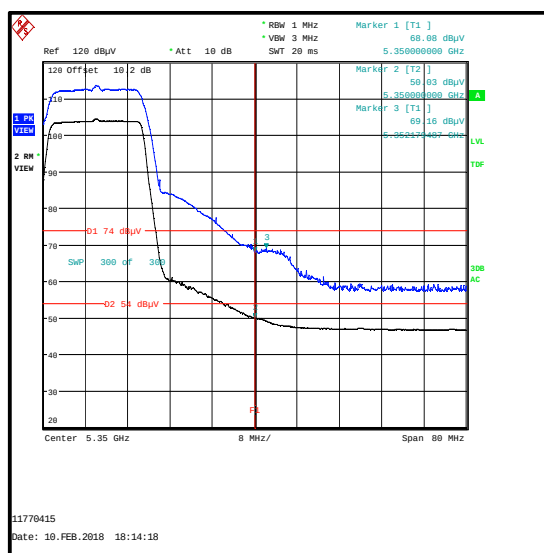
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	68.1	74.0	5.9	Complied
5352.179	69.2	74.0	4.8	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	46.7	54.0	7.3	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	50.0	54.0	4.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5148.654	57.3	74.0	16.7	Complied
5150	55.9	74.0	18.1	Complied

Results: Upper Band Edge / Peak

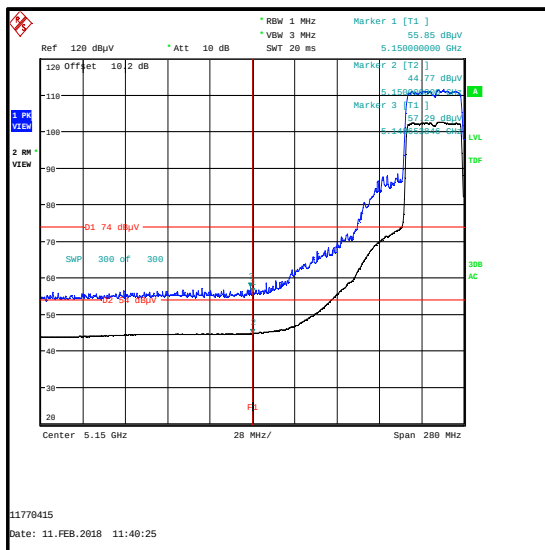
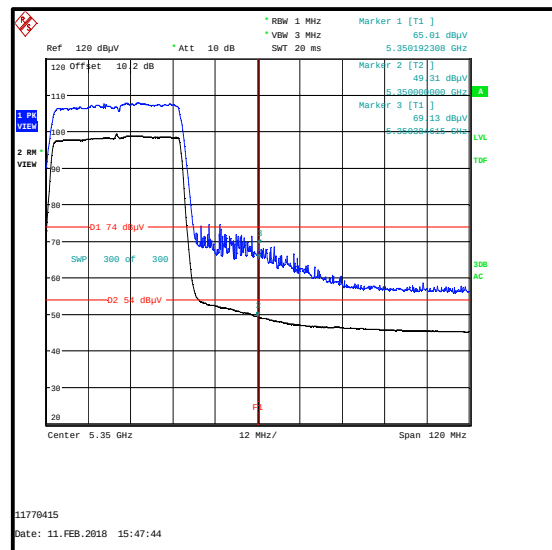
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	65.0	74.0	9.0	Complied
5350.385	69.1	74.0	4.9	Complied

Results: Lower Band Edge / 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	44.8	0.1	44.9	54.0	9.1	Complied

Results: Upper Band Edge / 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
5350	49.3	0.1	49.4	54.0	4.6	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5080.769	56.4	74.0	17.6	Complied
5150	55.5	74.0	18.5	Complied

Results: Upper Band Edge / Peak

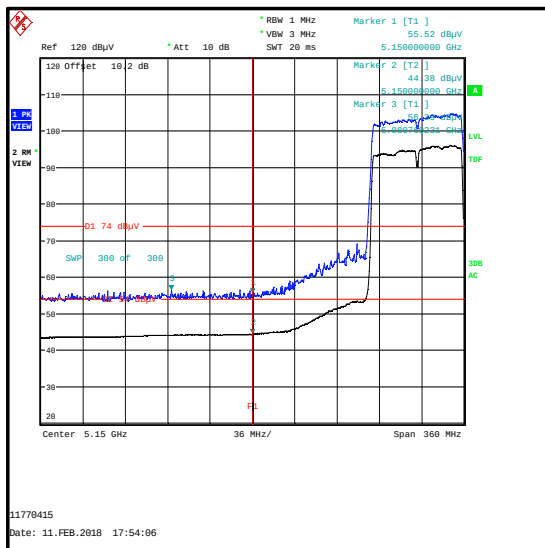
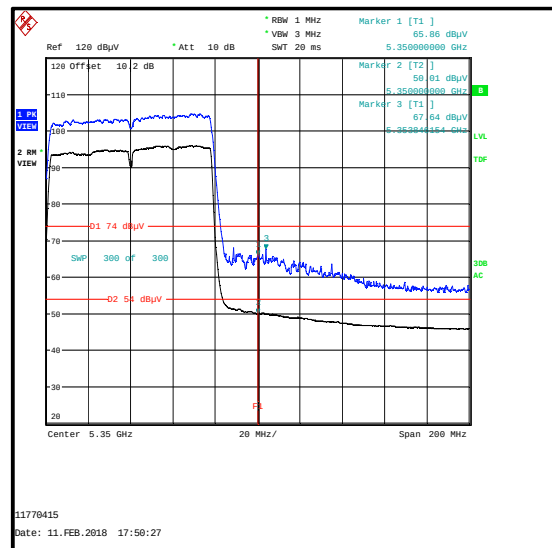
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	65.9	74.0	8.1	Complied
5353.846	67.6	74.0	6.4	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	44.4	0.2	44.6	54.0	9.4	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	50.0	0.2	50.2	54.0	3.8	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5143.077	58.0	74.0	16.0	Complied
5150	57.0	74.0	17.0	Complied

Results: Upper Band Edge / Peak

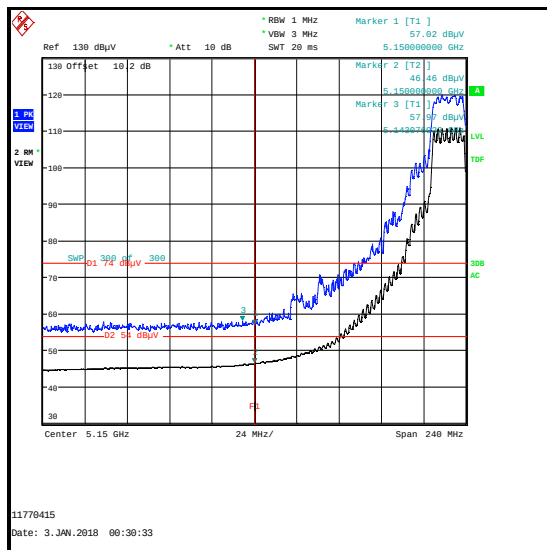
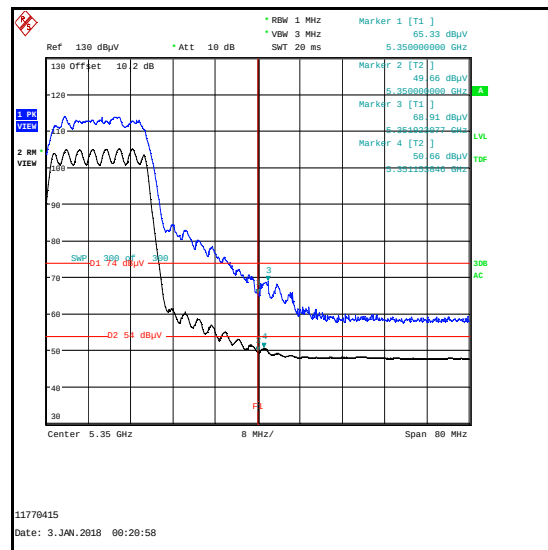
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	65.3	74.0	8.7	Complied
5351.923	68.9	74.0	5.1	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	46.5	54.0	7.5	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	49.7	54.0	4.3	Complied
5351.154	50.7	54.0	3.3	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5141.474	58.4	74.0	15.6	Complied
5150	56.9	74.0	17.1	Complied

Results: Upper Band Edge / Peak

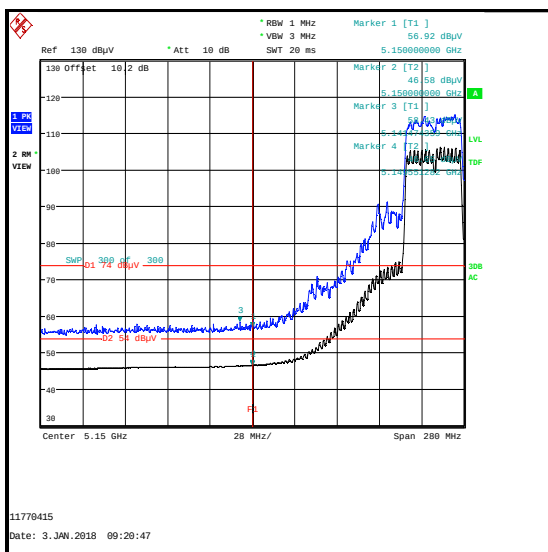
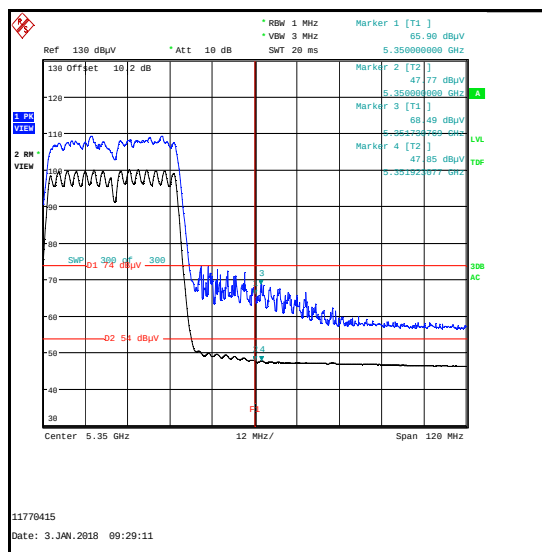
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	65.9	74.0	8.1	Complied
5351.731	68.5	74.0	5.5	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5149.551	46.8	0.1	46.9	54.0	7.1	Complied
5150	46.6	0.1	46.7	54.0	7.3	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.8	0.1	47.9	54.0	6.1	Complied
5351.923	47.9	0.1	48.0	54.0	6.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5128.654	58.1	74.0	15.9	Complied
5150	56.0	74.0	18.0	Complied

Results: Upper Band Edge / Peak

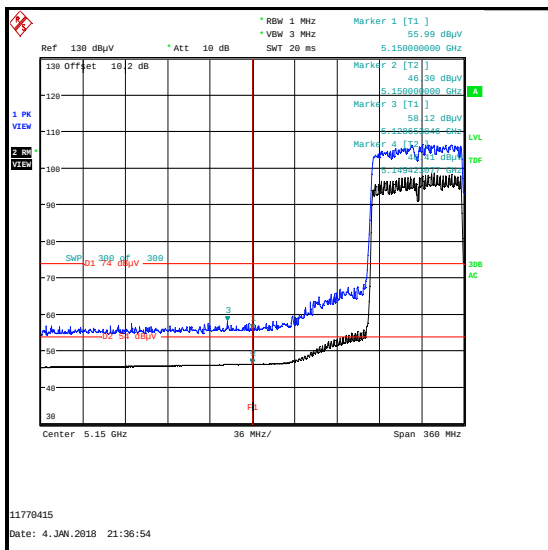
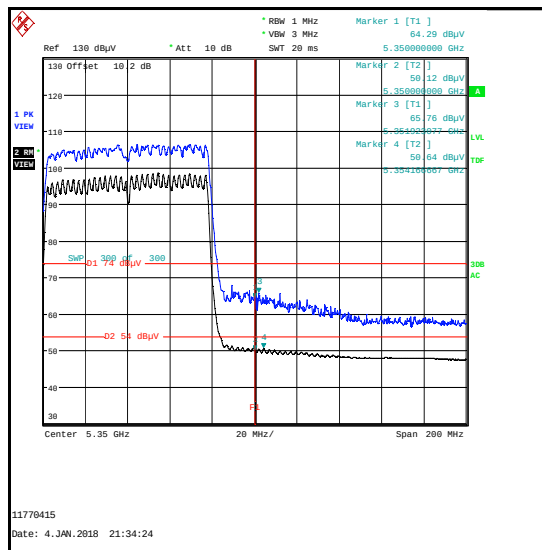
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	64.3	74.0	9.7	Complied
5351.923	65.8	74.0	8.2	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5149.423	46.4	0.2	46.6	54.0	7.4	Complied
5150	46.3	0.2	46.5	54.0	7.5	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	50.1	0.2	50.3	54.0	3.7	Complied
5354.167	50.6	0.2	50.8	54.0	3.2	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5132.308	57.1	74.0	16.9	Complied
5150	56.1	74.0	17.9	Complied

Results: Upper Band Edge / Peak

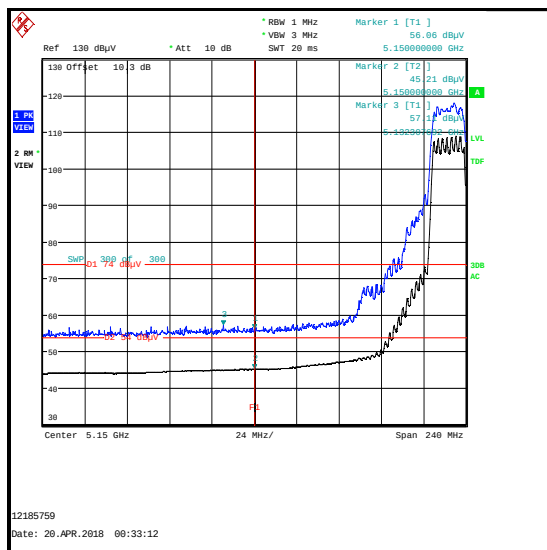
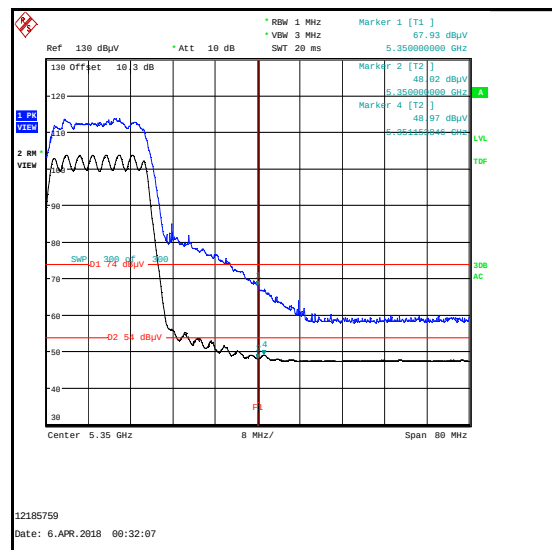
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	67.9	74.0	6.1	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	45.2	54.0	8.8	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	48.0	54.0	6.0	Complied
5351.154	49.0	54.0	5.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5125.769	57.9	74.0	16.1	Complied
5150	56.3	74.0	17.7	Complied

Results: Upper Band Edge / Peak

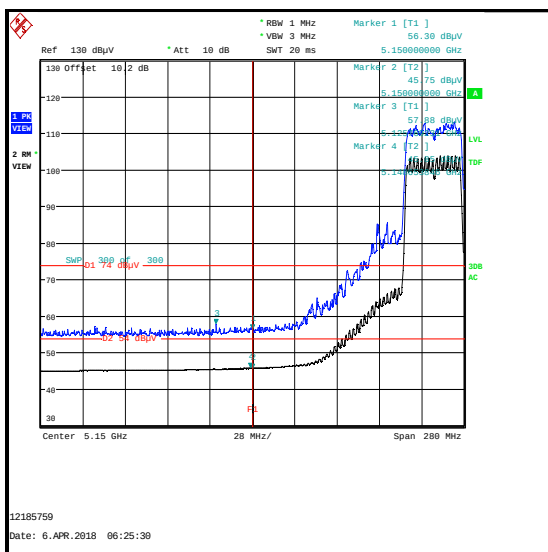
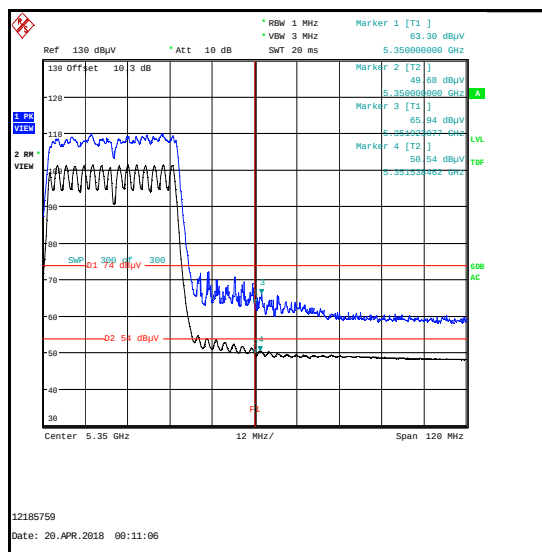
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	63.3	74.0	10.7	Complied
5351.923	65.9	74.0	8.1	Complied

Results: Lower Band Edge / 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
5148.654	45.9	0.1	46.0	54.0	8.0	Complied
5150	45.8	0.1	45.9	54.0	8.1	Complied

Results: Upper Band Edge / 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
5350	49.7	0.1	49.8	54.0	4.2	Complied
5351.538	50.5	0.1	50.6	54.0	3.4	Complied

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