

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

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5053.654	58.3	74.0	15.7	Complied
5150	56.1	74.0	17.9	Complied

Results: Upper Band Edge / Peak

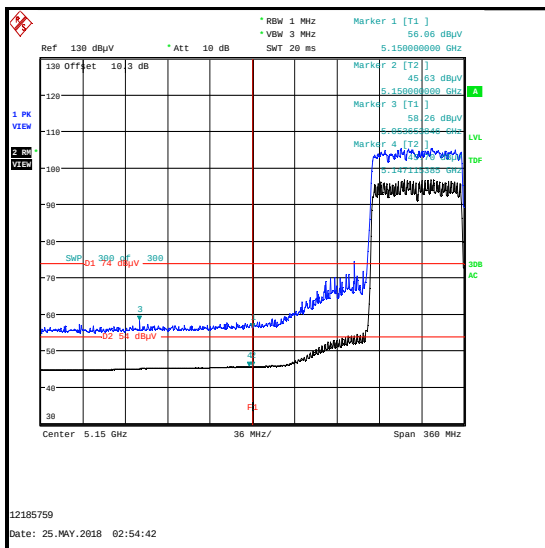
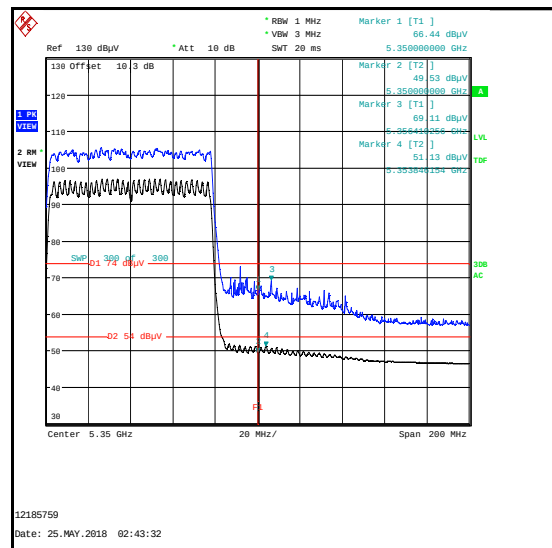
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	66.4	74.0	7.6	Complied
5356.410	69.1	74.0	4.9	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5147.115	45.7	0.2	45.9	54.0	8.1	Complied
5150	45.6	0.2	45.8	54.0	8.2	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	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 (5.25-5.35 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
5121.154	57.0	74.0	17.0	Complied
5150	55.8	74.0	18.2	Complied

Results: Upper Band Edge / Peak

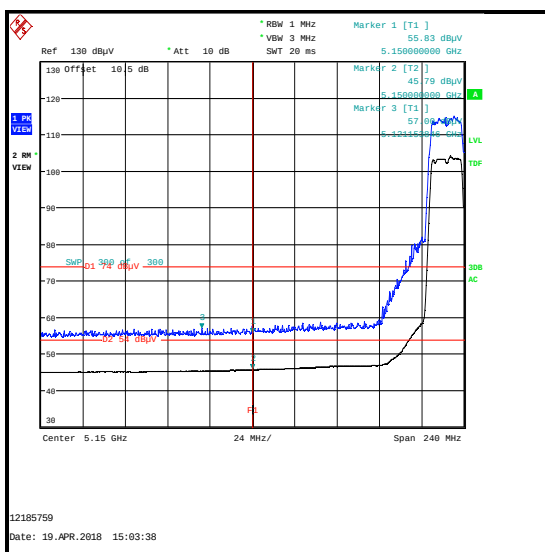
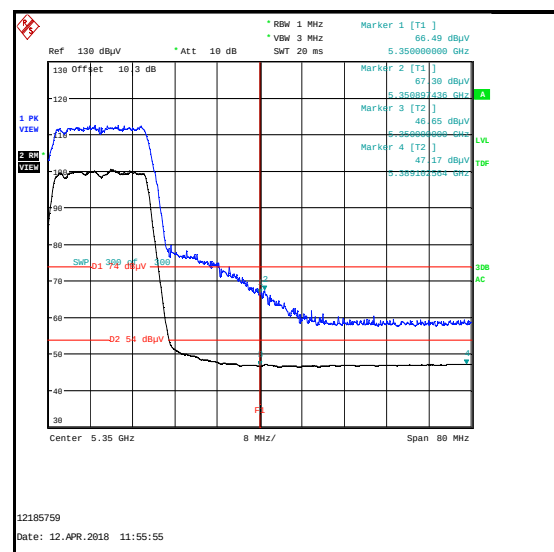
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	66.5	74.0	7.5	Complied
5350.897	67.3	74.0	6.7	Complied

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	45.8	0.2	46.0	54.0	8.0	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	46.7	0.2	46.9	54.0	7.1	Complied
5389.103	47.2	0.2	47.4	54.0	6.6	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 TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5049.038	58.6	74.0	15.4	Complied
5150	56.7	74.0	17.3	Complied

Results: Upper Band Edge / Peak

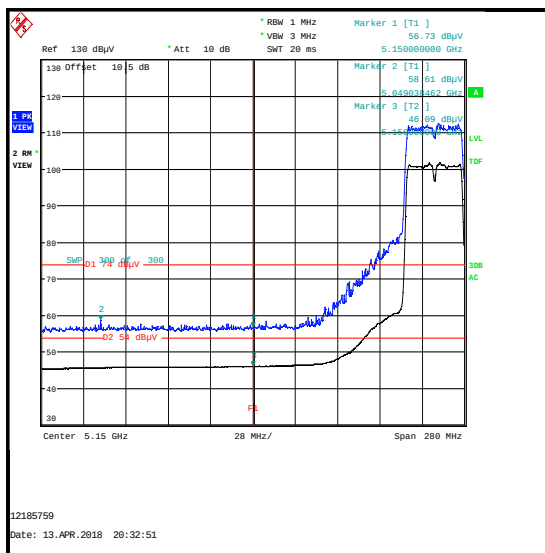
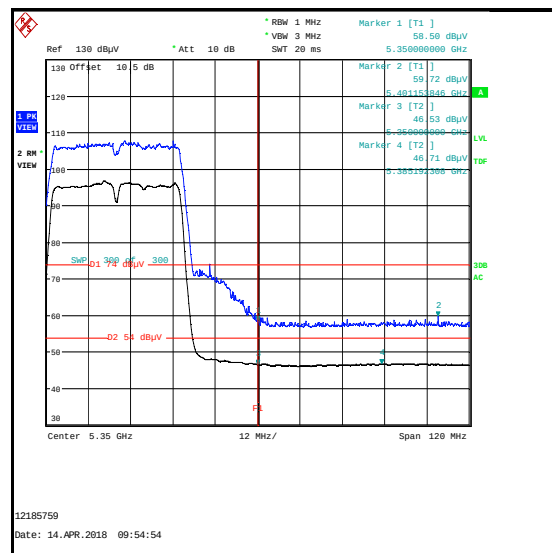
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	58.5	74.0	15.5	Complied
5401.154	59.7	74.0	14.3	Complied

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	46.1	0.2	46.3	54.0	7.7	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	46.5	0.2	46.7	54.0	7.3	Complied
5385.192	46.7	0.2	46.9	54.0	7.1	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 TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5093.943	57.7	74.0	16.3	Complied
5150	56.0	74.0	18.0	Complied

Results: Upper Band Edge / Peak

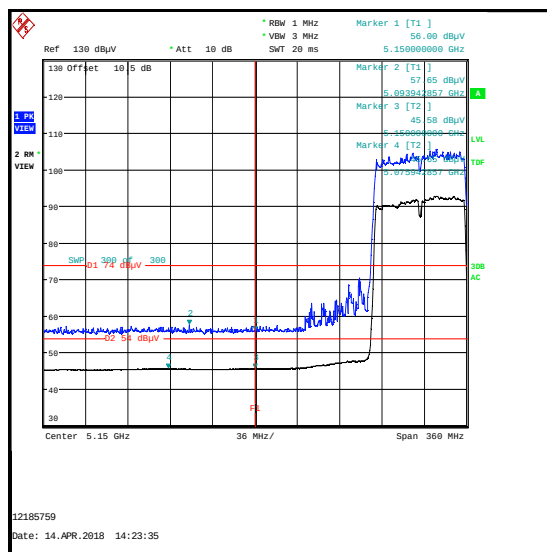
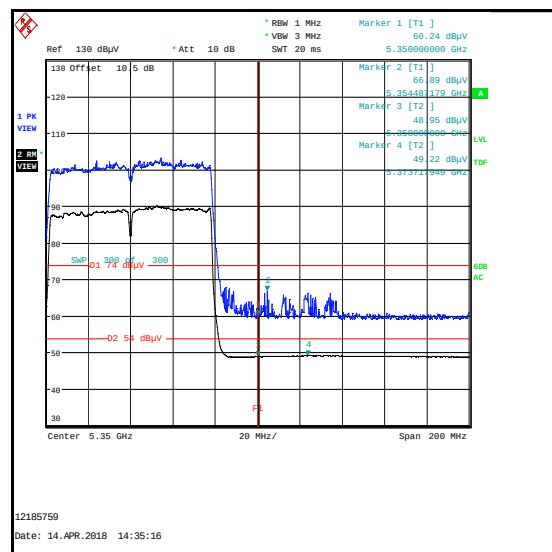
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	60.2	74.0	13.8	Complied
5354.487	66.9	74.0	7.1	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5075.942	46.7	0.2	46.9	54.0	7.1	Complied
5150	45.6	0.2	45.8	54.0	8.2	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	49.0	0.2	49.2	54.0	4.8	Complied
5373.718	49.2	0.2	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: 802.11n / 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
5145.769	58.9	74.0	15.1	Complied
5150	58.2	74.0	15.8	Complied

Results: Upper Band Edge / Peak

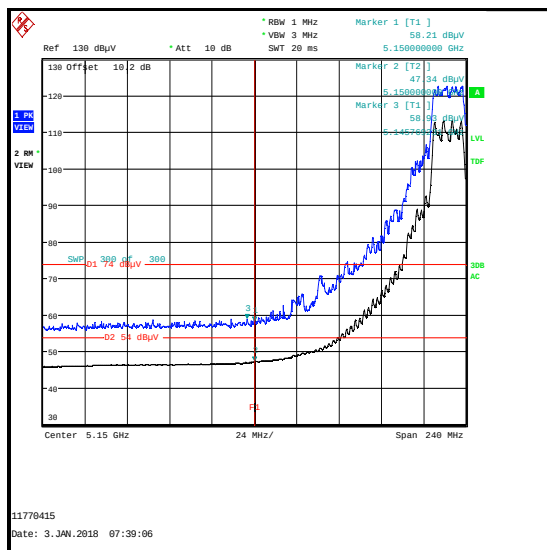
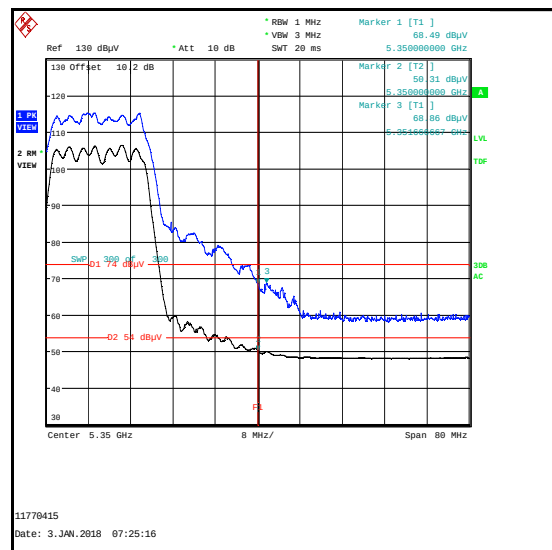
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	68.5	74.0	5.5	Complied
5351.667	68.9	74.0	5.1	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	47.3	54.0	6.7	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	50.3	54.0	3.7	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 / 3Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5121.283	58.0	74.0	16.0	Complied
5150	57.1	74.0	16.9	Complied

Results: Upper Band Edge / Peak

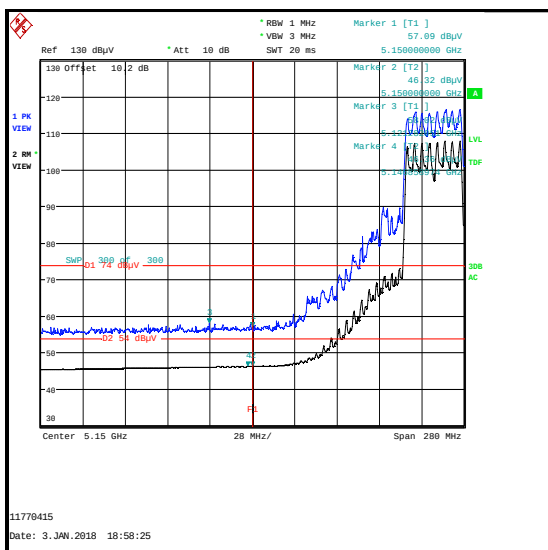
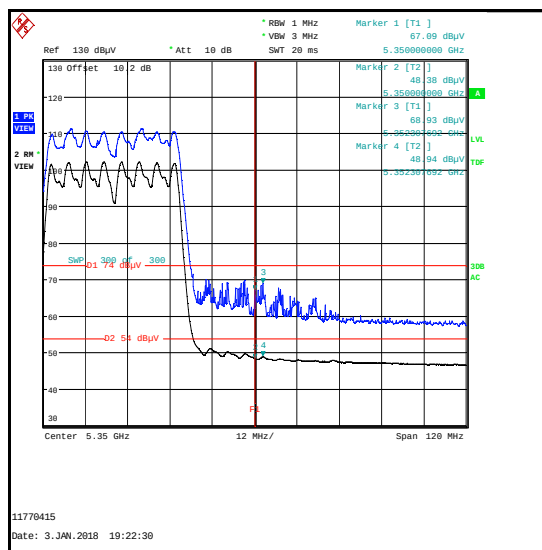
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	67.1	74.0	6.9	Complied
5352.308	68.9	74.0	5.1	Complied

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
5146.859	46.4	0.1	46.5	54.0	7.5	Complied
5150	46.3	0.1	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	48.4	0.1	48.5	54.0	5.5	Complied
5352.308	48.9	0.1	49.0	54.0	5.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.25-5.35 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5100.962	58.3	74.0	15.7	Complied
5150	56.9	74.0	17.1	Complied

Results: Upper Band Edge / Peak

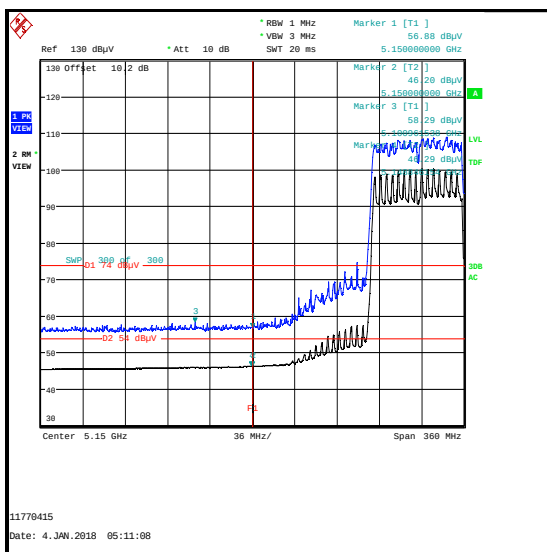
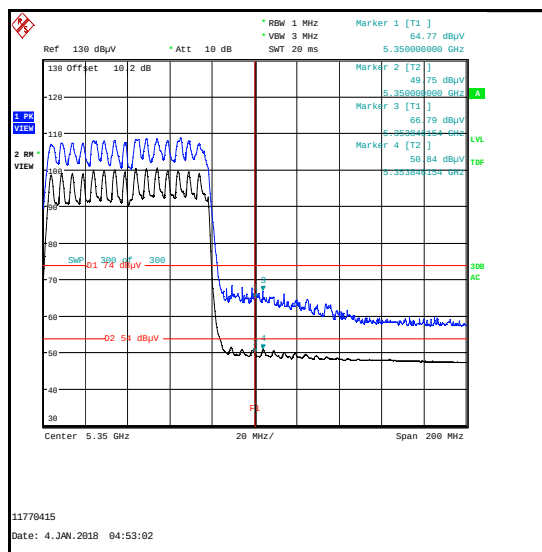
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	64.8	74.0	9.2	Complied
5353.846	66.8	74.0	7.2	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5148.846	46.3	0.2	46.5	54.0	7.5	Complied
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	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 (5.25-5.35 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
5131.538	57.1	74.0	16.9	Complied
5150	56.4	74.0	17.6	Complied

Results: Upper Band Edge / Peak

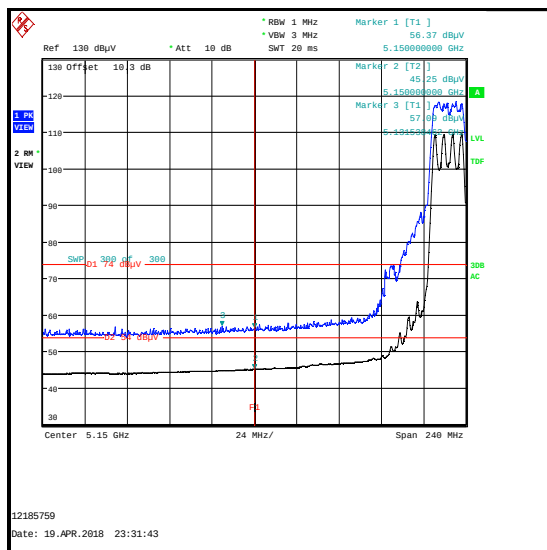
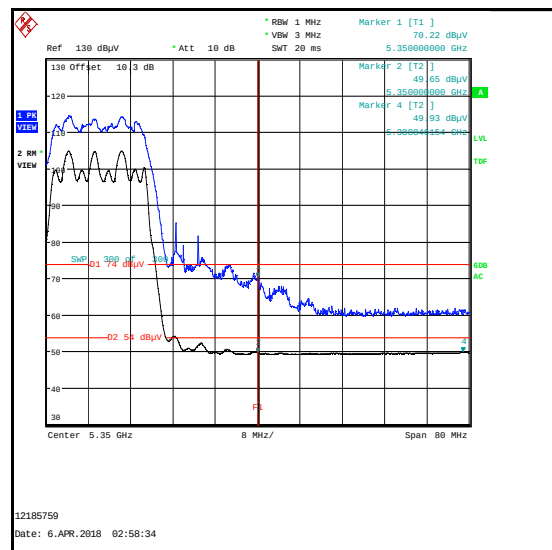
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	70.2	74.0	3.8	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5150	45.3	54.0	8.7	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	49.7	54.0	4.3	Complied
5388.846	49.9	54.0	4.1	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 / 3Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5059.359	56.9	74.0	17.1	Complied
5150	56.1	74.0	17.9	Complied

Results: Upper Band Edge / Peak

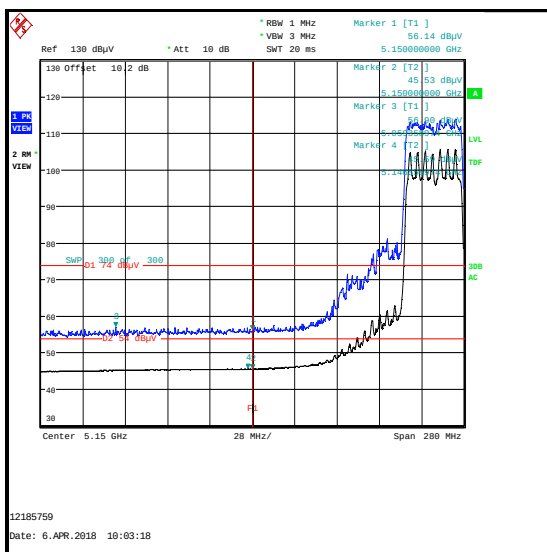
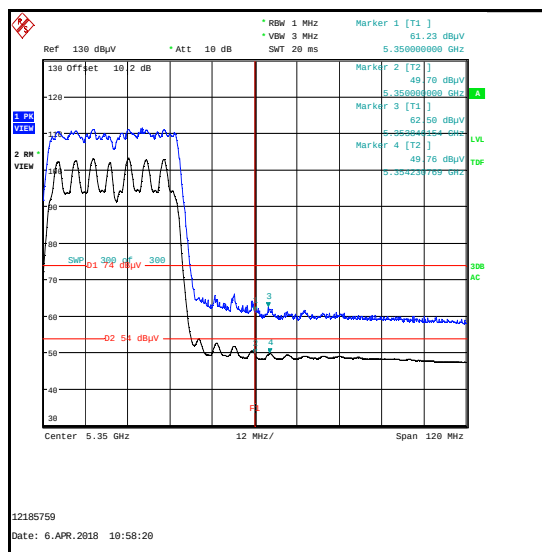
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	61.2	74.0	12.8	Complied
5353.846	62.5	74.0	11.5	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Duty Cycle correction (dB)	Corrected Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5146.857	45.6	0.1	45.7	54.0	8.3	Complied
5150	45.5	0.1	45.6	54.0	8.4	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	49.7	0.1	49.8	54.0	4.2	Complied
5354.231	49.8	0.1	49.9	54.0	4.1	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 / 3Tx STBC / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
4993.143	59.4	74.0	14.6	Complied
5150	57.0	74.0	17.0	Complied

Results: Upper Band Edge / Peak

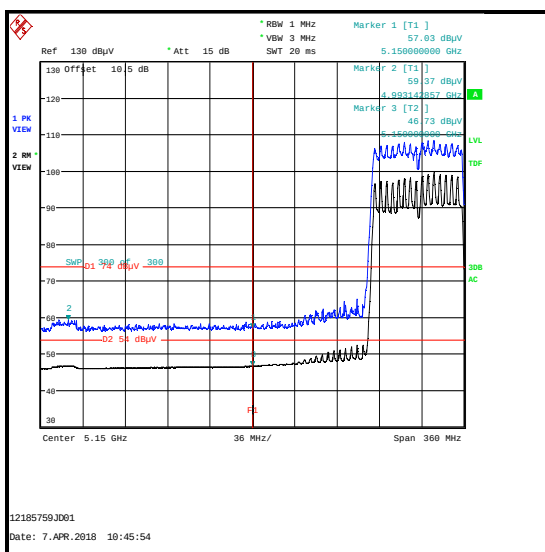
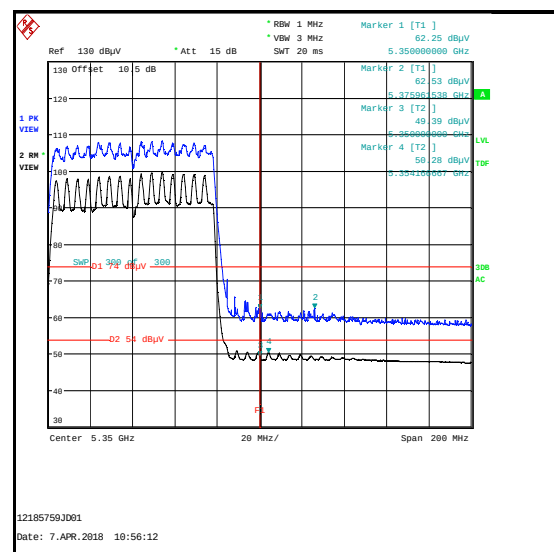
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5350	62.3	74.0	11.7	Complied
5375.962	62.5	74.0	11.5	Complied

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	46.7	0.2	46.9	54.0	7.1	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	49.4	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 (5.25-5.35 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
5048.462	57.5	74.0	16.5	Complied
5150	56.2	74.0	17.8	Complied

Results: Upper Band Edge / Peak

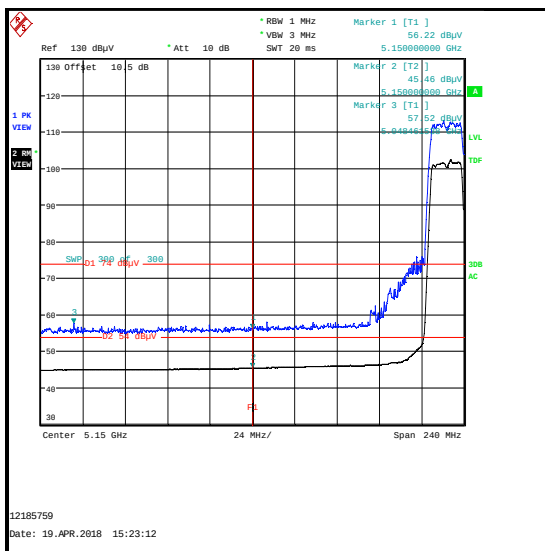
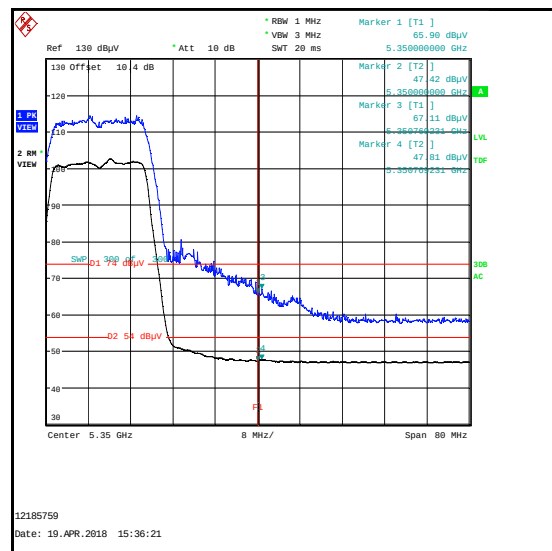
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	65.9	74.0	8.1	Complied
5350.769	67.1	74.0	6.9	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	45.5	54.0	8.5	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.4	54.0	6.6	Complied
5350.769	47.8	54.0	6.2	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 / 3Tx TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5115.000	57.5	74.0	16.5	Complied
5150	57.4	74.0	16.6	Complied

Results: Upper Band Edge / Peak

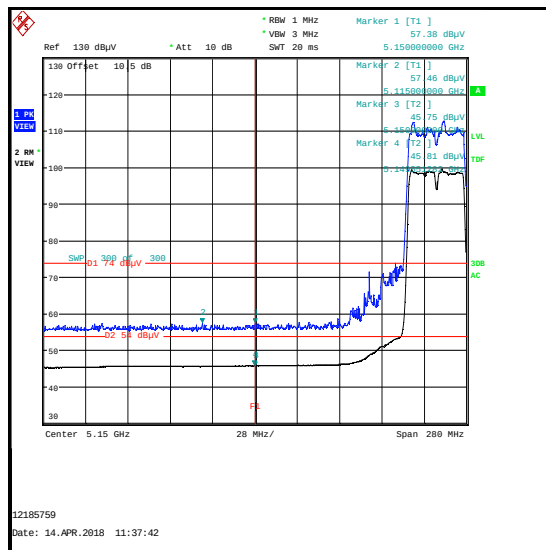
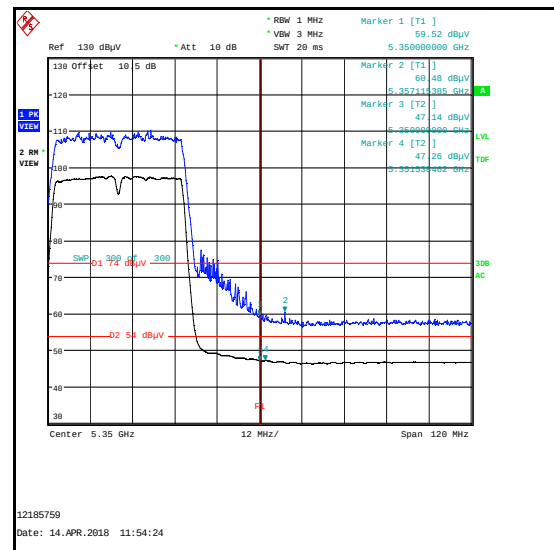
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	59.5	74.0	14.5	Complied
5357.115	60.5	74.0	13.5	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	45.8	54.0	8.2	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	47.1	54.0	6.9	Complied
5351.538	47.3	54.0	6.7	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 / 3Tx TxBF / BPSK / MCS0****Results: Lower Band Edge / Peak**

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5143.653	57.6	74.0	16.4	Complied
5150	56.6	74.0	17.4	Complied

Results: Upper Band Edge / Peak

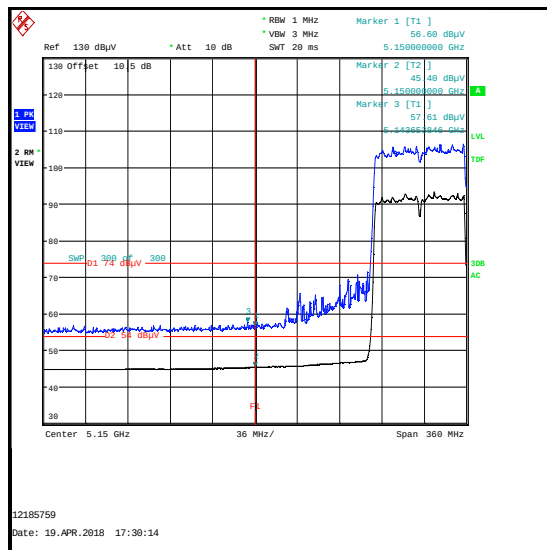
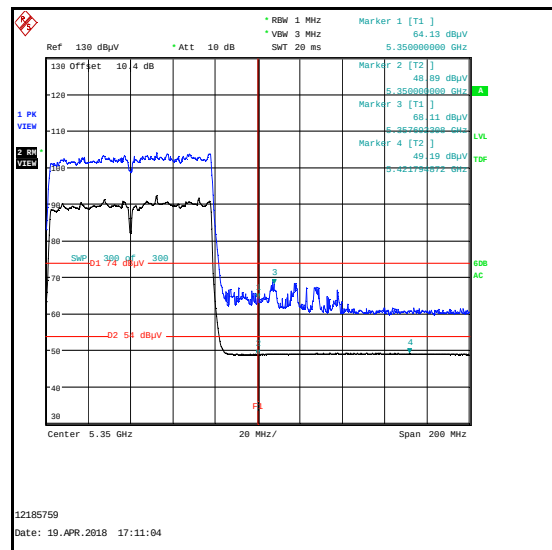
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	64.1	74.0	9.9	Complied
5357.692	68.1	74.0	5.9	Complied

Results: Lower Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5150	45.4	54.0	8.6	Complied

Results: Upper Band Edge / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5350	48.9	54.0	5.1	Complied
5421.795	49.2	54.0	4.8	Complied

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

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band)**5.3.3. 5.47-5.725 GHz band****Test Summary:**

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

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

Environmental Conditions:

Temperature (°C):	21 to 25
Relative Humidity (%):	41 to 51

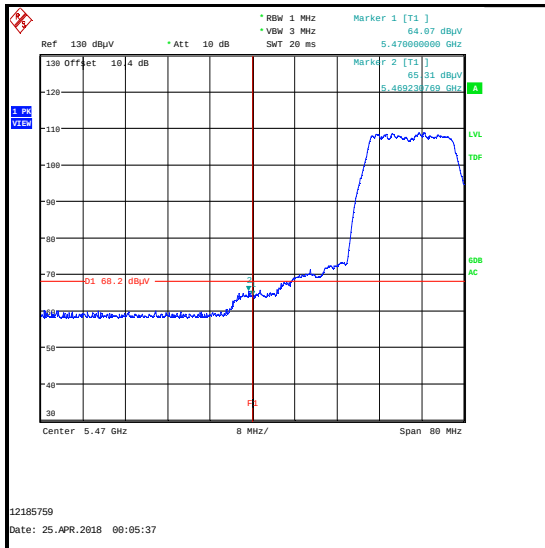
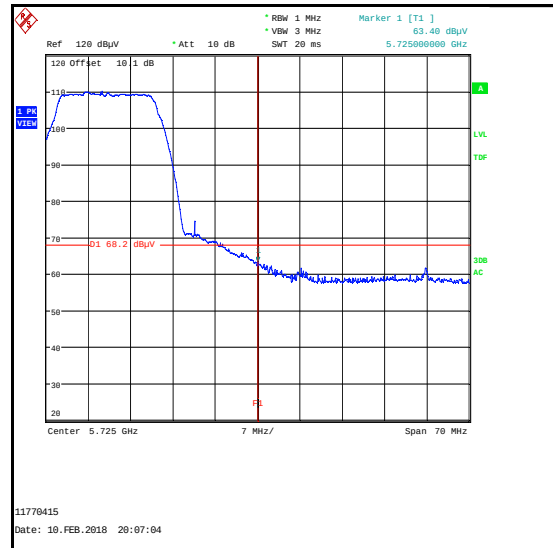
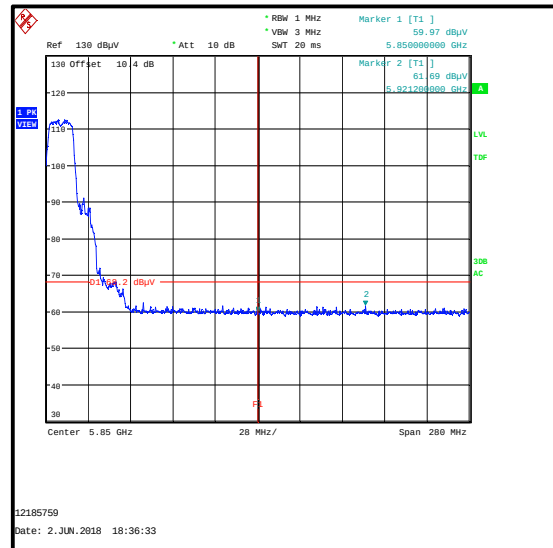
Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Note(s):**

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 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz. However, there are restricted bands of operation below the lower band edge at 4.5-5.15 GHz and also at 5.35-5.46 GHz therefore the provisions of FCC Part 15.205 apply. Tests were performed in these restricted bands of operation with the EUT transmitting on the bottom and top channels within 5.47-5.725 GHz band, the results are included in the transmitter 5.725-5.85 GHz band radiated spurious emissions section of this test report.
4. For completeness, results are also shown as EIRP in dBm and also as field strength in dBμV/m. Measured field strength was converted to EIRP in accordance with KDB 789033 II.G.2.c)(iii) using a conversion factor of 95.2.
5. As straddle channels overlap the upper band edge at 5725 MHz, additional testing was performed in accordance with KDB 778093 III.B.2.b)(iii) which requires compliance of overlapping channels to an unwanted emission level of -27 dBm/MHz at 5850 MHz instead of 5725 MHz. The EUT was configured to transmit on the straddle channels and the emission levels at 5850 MHz were recorded. A marker was placed on the band edge spot frequency and a second marker placed on the highest emission level in the adjacent non-restricted band of operation (where a higher level emission was present). Marker frequencies and levels were recorded.

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.231	-29.9	-27.0	2.9	Complied
5470	-31.1	-27.0	4.1	Complied
5725	-31.8	-27.0	4.8	Complied
5850	-35.2	-27.0	8.2	Complied
5921.200	-33.5	-27.0	6.5	Complied

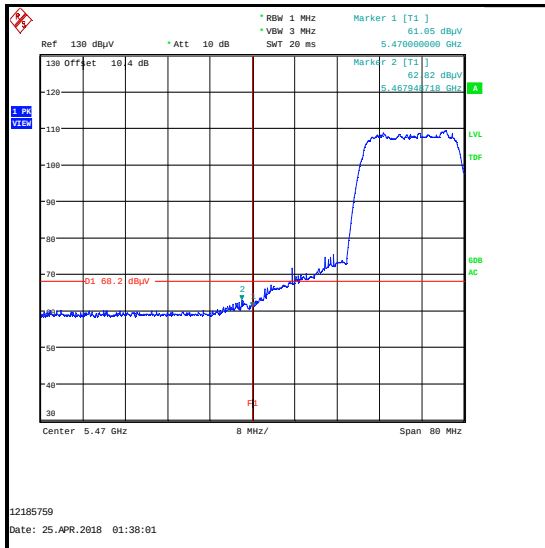
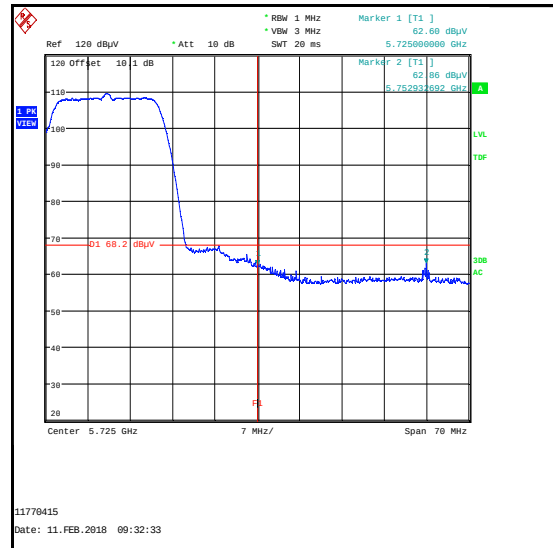
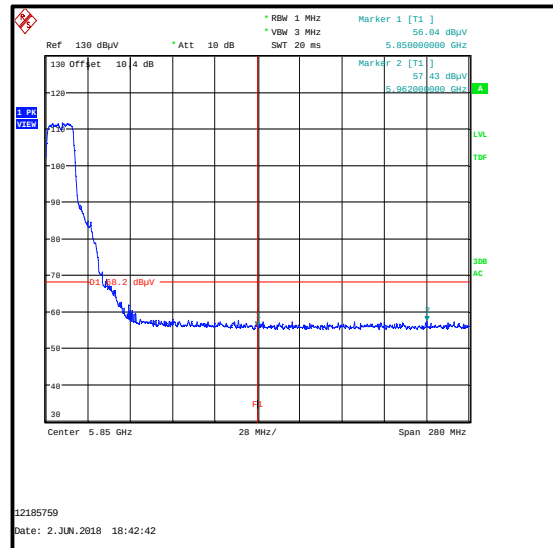
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.231	65.3	68.2	2.9	Complied
5470	64.1	68.2	4.1	Complied
5725	63.4	68.2	4.8	Complied
5850	60.0	68.2	8.2	Complied
5921.200	61.7	68.2	6.5	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11a / 20 MHz / SISO / BPSK / 6 Mbps / Core 0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5467.949	-32.4	-27.0	5.4	Complied
5470	-34.1	-27.0	7.1	Complied
5725	-32.6	-27.0	5.6	Complied
5752.933	-32.3	-27.0	5.3	Complied
5850	-39.2	-27.0	12.2	Complied
5962.000	-37.8	-27.0	10.8	Complied

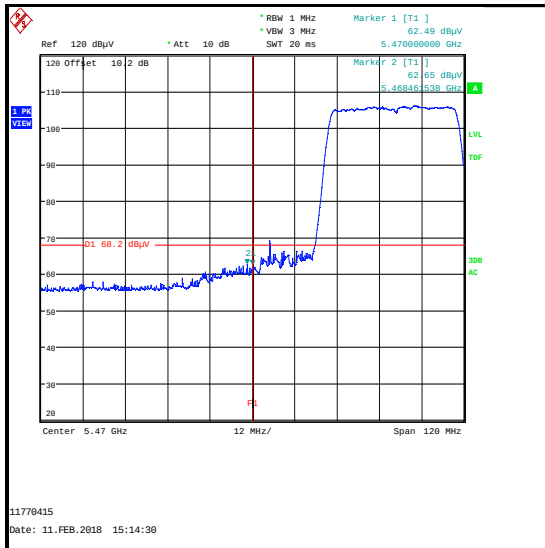
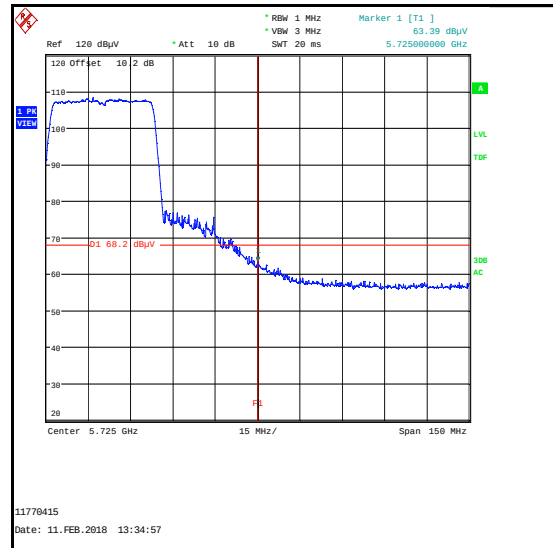
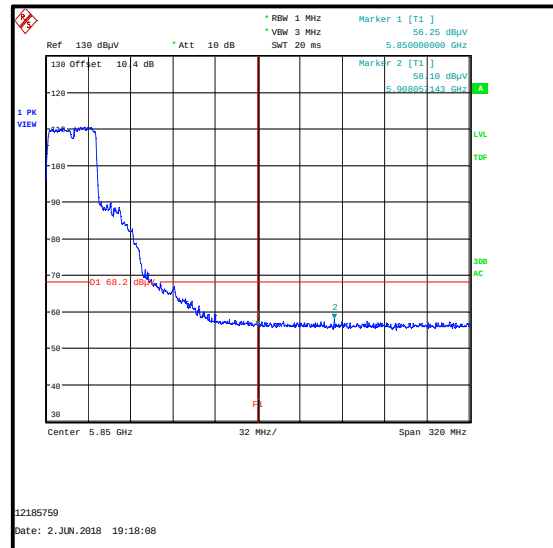
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5467.949	62.8	68.2	5.4	Complied
5470	61.1	68.2	7.1	Complied
5725	62.6	68.2	5.6	Complied
5752.933	62.9	68.2	5.3	Complied
5850	56.0	68.2	12.2	Complied
5962.000	57.4	68.2	10.8	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5468.462	-32.5	-27.0	5.5	Complied
5470	-32.7	-27.0	5.7	Complied
5725	-31.8	-27.0	4.8	Complied
5850	-38.9	-27.0	11.9	Complied
5908.057	-37.1	-27.0	10.1	Complied

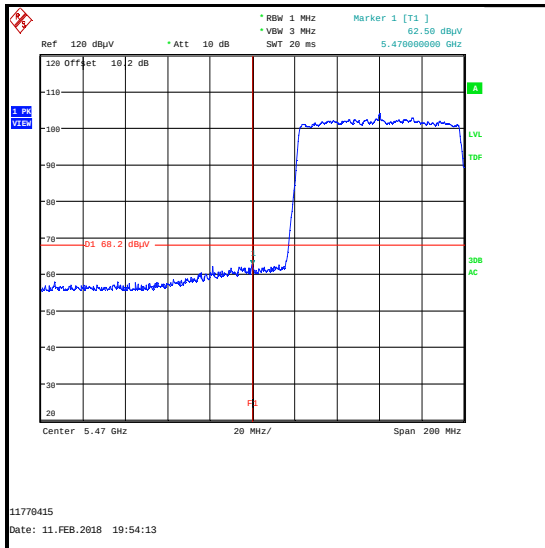
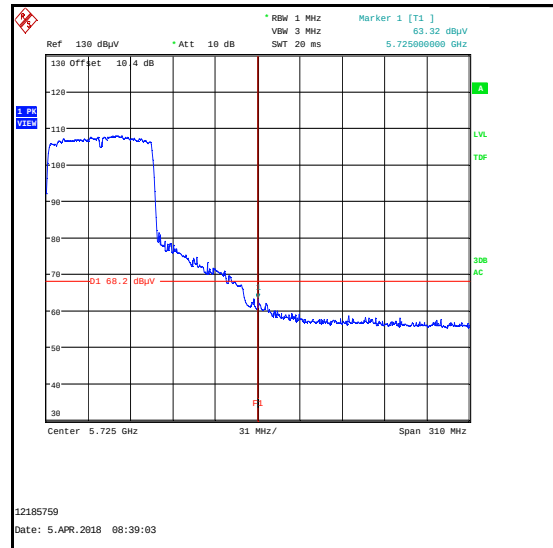
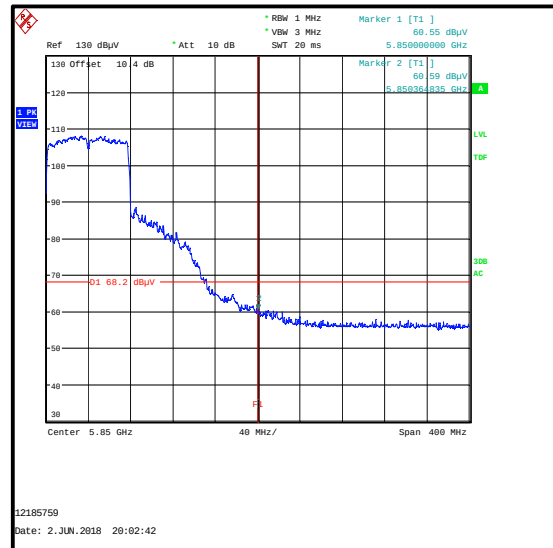
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5468.462	62.7	68.2	5.5	Complied
5470	62.5	68.2	5.7	Complied
5725	63.4	68.2	4.8	Complied
5850	56.3	68.2	11.9	Complied
5908.057	58.1	68.2	10.1	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5470	-32.7	-27.0	5.7	Complied
5725	-31.9	-27.0	4.9	Complied
5850	-34.6	-27.0	7.6	Complied

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5470	62.5	68.2	5.7	Complied
5725	63.3	68.2	4.9	Complied
5850	60.6	68.2	7.6	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

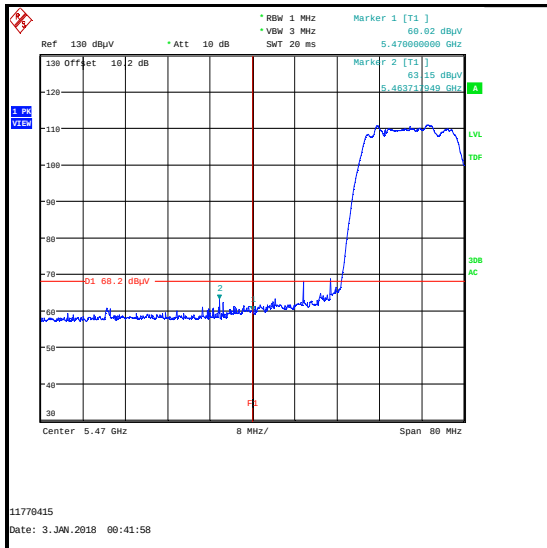
Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5463.718	-32.0	-27.0	5.0	Complied
5470	-35.2	-27.0	8.2	Complied
5725	-33.1	-27.0	6.1	Complied
5752.933	-32.1	-27.0	5.1	Complied
5850	-39.6	-27.0	12.6	Complied
5981.200	-37.6	-27.0	10.6	Complied

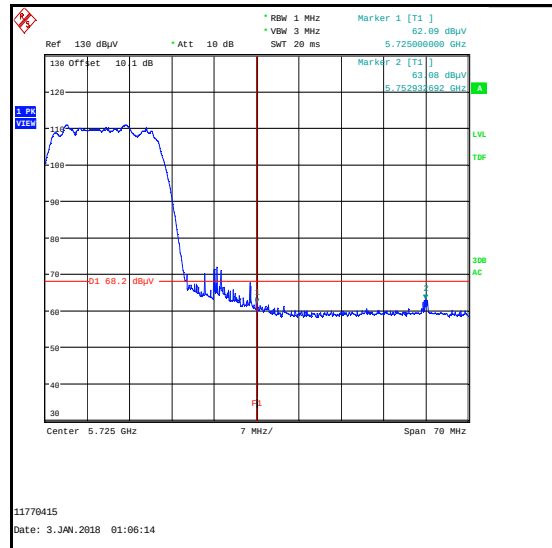
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5463.718	63.2	68.2	5.0	Complied
5470	60.0	68.2	8.2	Complied
5725	62.1	68.2	6.1	Complied
5752.933	63.1	68.2	5.1	Complied
5850	55.6	68.2	12.6	Complied
5981.200	57.6	68.2	10.6	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)

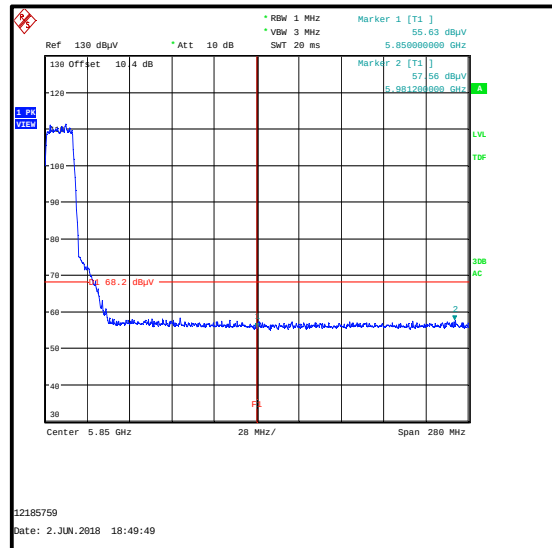
Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak



Lower Band Edge



Upper Band Edge

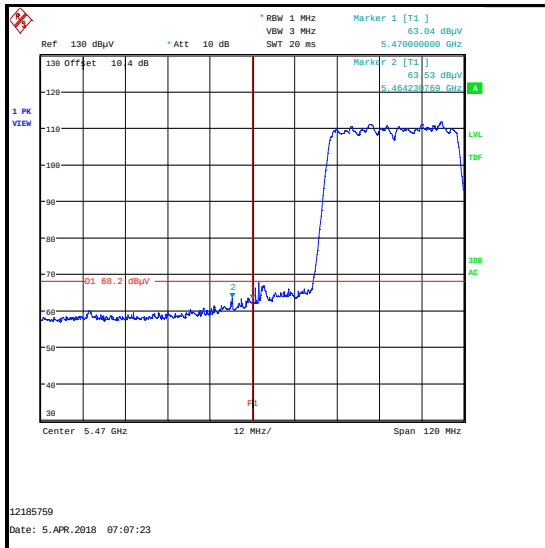
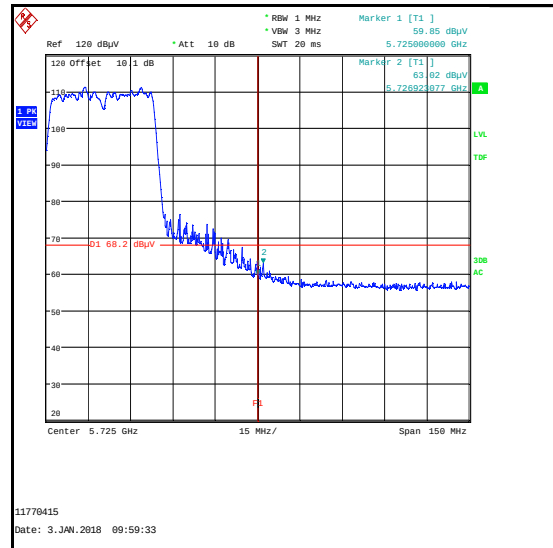
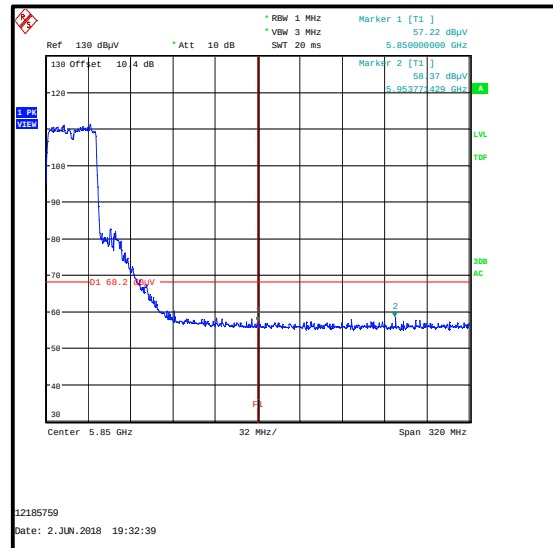


Straddle Channel emission level at 5850 MHz

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5464.231	-31.7	-27.0	4.7	Complied
5470	-32.2	-27.0	5.2	Complied
5725	-35.3	-27.0	8.3	Complied
5726.923	-32.2	-27.0	5.2	Complied
5850	-38.0	-27.0	11.0	Complied
5953.771	-36.8	-27.0	9.8	Complied

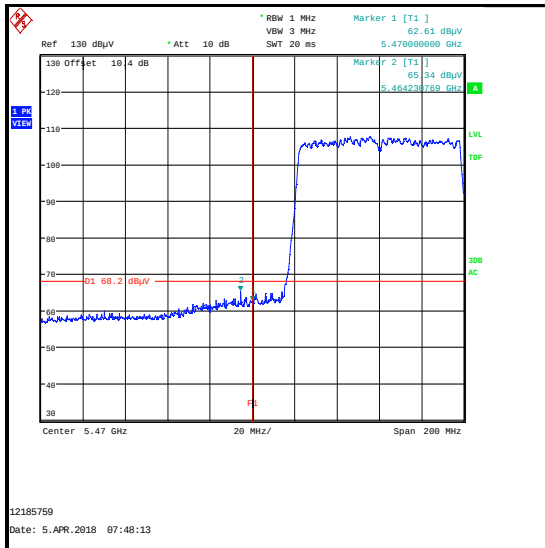
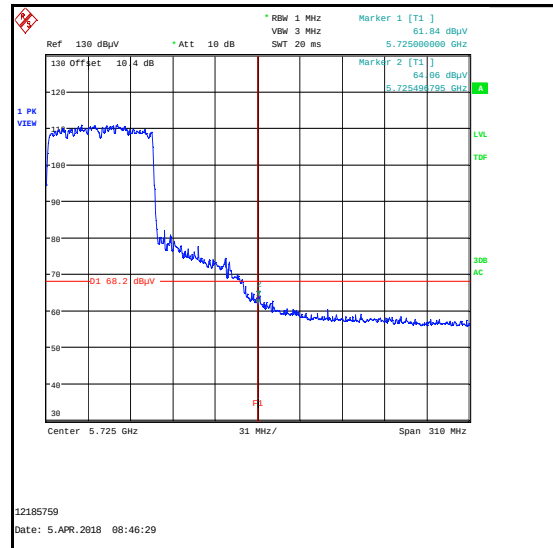
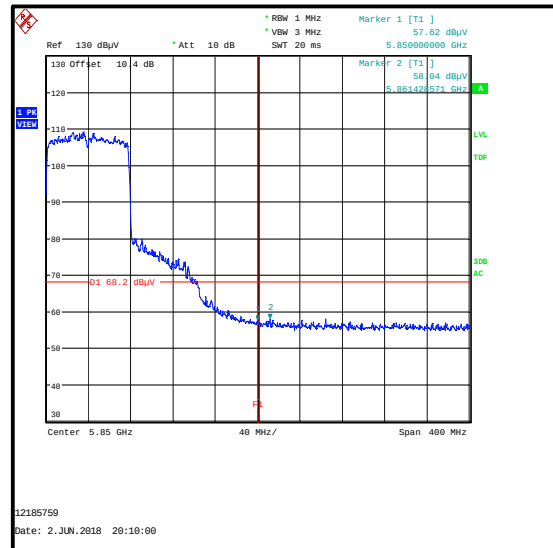
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5464.231	63.5	68.2	4.7	Complied
5470	63.0	68.2	5.2	Complied
5725	59.9	68.2	8.3	Complied
5726.923	63.0	68.2	5.2	Complied
5850	57.2	68.2	11.0	Complied
5953.771	58.4	68.2	9.8	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5464.231	-29.9	-27.0	2.9	Complied
5470	-32.6	-27.0	5.6	Complied
5725	-33.4	-27.0	6.4	Complied
5725.497	-31.1	-27.0	4.1	Complied
5850	-37.6	-27.0	10.6	Complied
5861.429	-37.2	-27.0	10.2	Complied

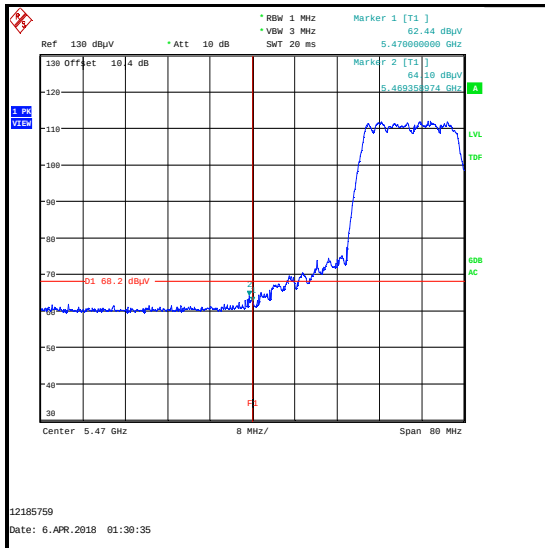
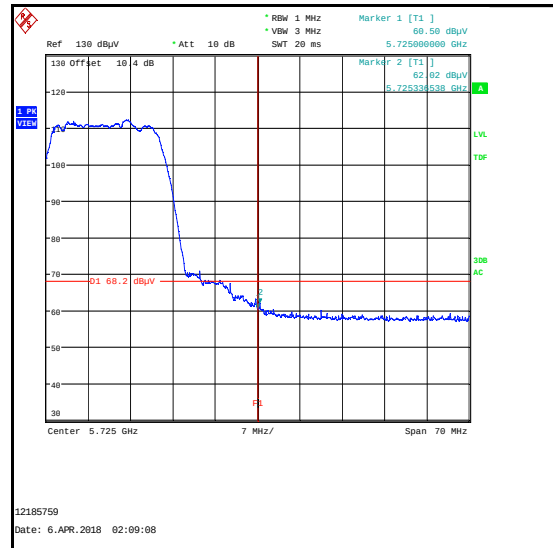
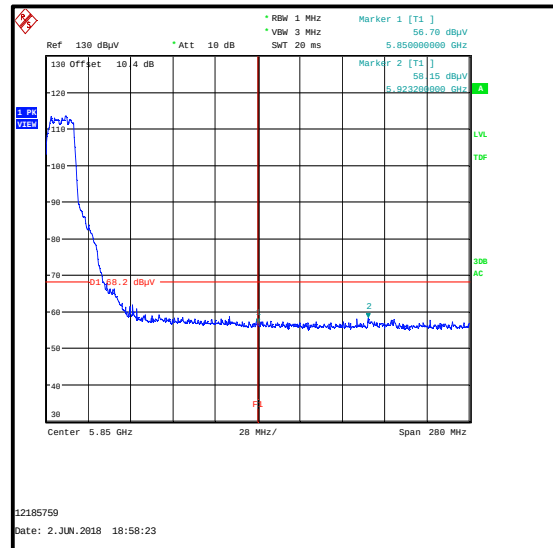
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5464.231	65.3	68.2	2.9	Complied
5470	62.6	68.2	5.6	Complied
5725	61.8	68.2	6.4	Complied
5725.497	64.1	68.2	4.1	Complied
5850	57.6	68.2	10.6	Complied
5861.429	58.0	68.2	10.2	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.359	-31.1	-27.0	4.1	Complied
5470	-32.8	-27.0	5.8	Complied
5725	-34.7	-27.0	7.7	Complied
5725.337	-33.2	-27.0	6.2	Complied
5850	-38.5	-27.0	11.5	Complied
5923.200	-37.0	-27.0	10.0	Complied

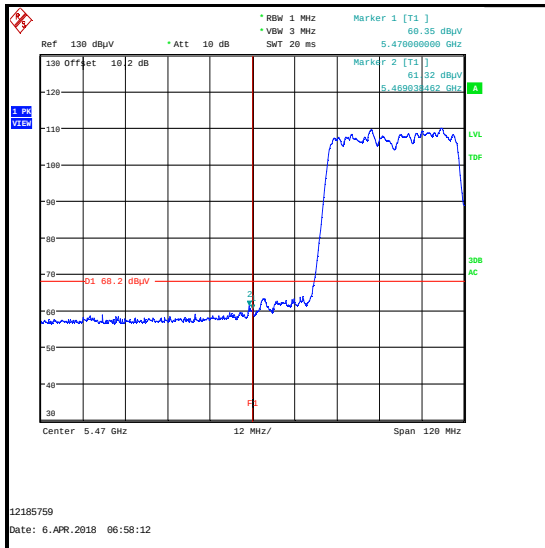
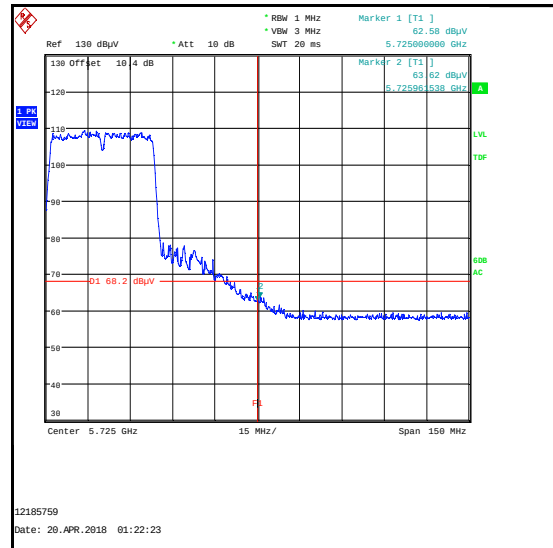
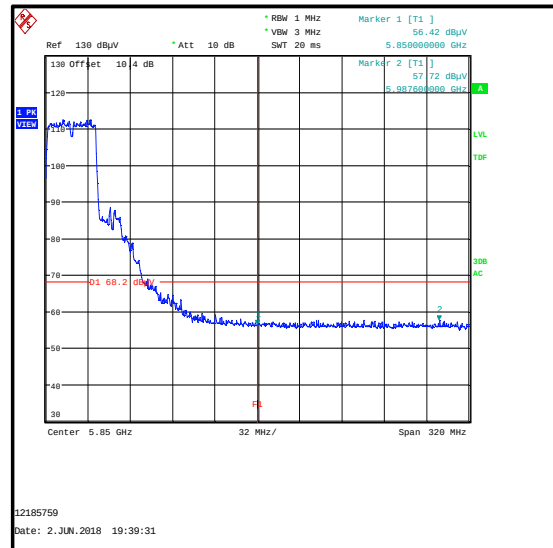
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.359	64.1	68.2	4.1	Complied
5470	62.4	68.2	5.8	Complied
5725	60.5	68.2	7.7	Complied
5725.337	62.0	68.2	6.2	Complied
5850	56.7	68.2	11.5	Complied
5923.200	58.2	68.2	10.0	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.038	-33.9	-27.0	6.9	Complied
5470	-34.8	-27.0	7.8	Complied
5725	-32.6	-27.0	5.6	Complied
5725.962	-31.6	-27.0	4.6	Complied
5850	-38.8	-27.0	11.8	Complied
5987.600	-37.5	-27.0	10.5	Complied

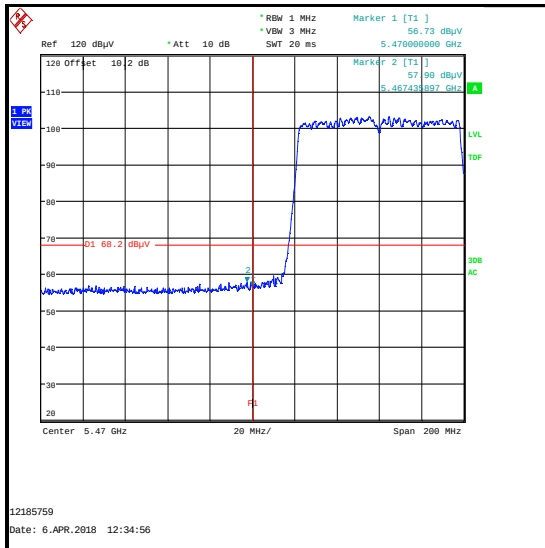
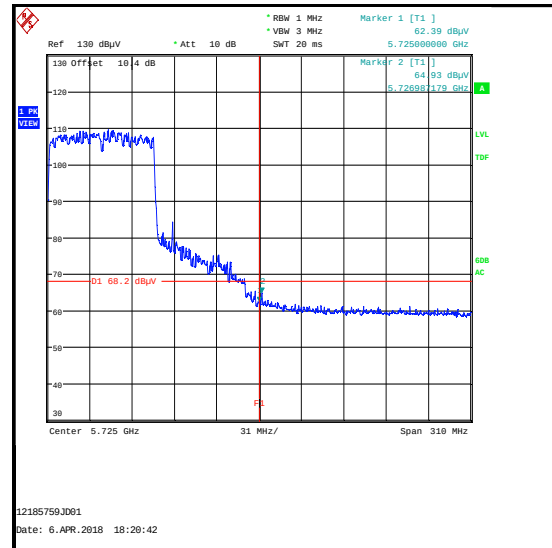
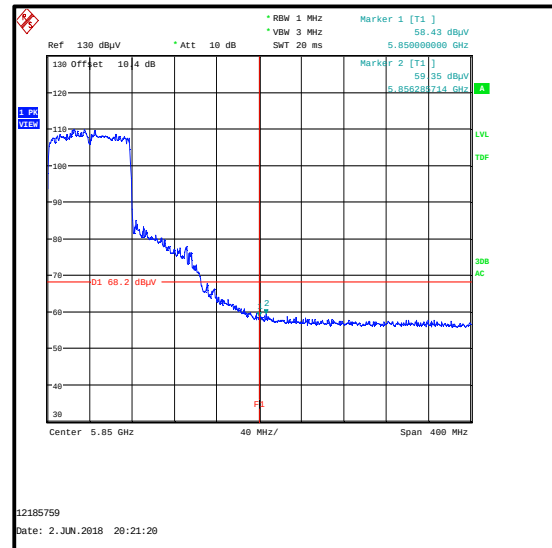
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.038	61.3	68.2	6.9	Complied
5470	60.4	68.2	7.8	Complied
5725	62.6	68.2	5.6	Complied
5725.962	63.6	68.2	4.6	Complied
5850	56.4	68.2	11.8	Complied
5987.600	57.7	68.2	10.5	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5467.436	-37.3	-27.0	10.3	Complied
5470	-38.5	-27.0	11.5	Complied
5725	-32.8	-27.0	5.8	Complied
5726.987	-30.3	-27.0	3.3	Complied
5850	-36.8	-27.0	9.8	Complied
5856.286	-35.8	-27.0	8.8	Complied

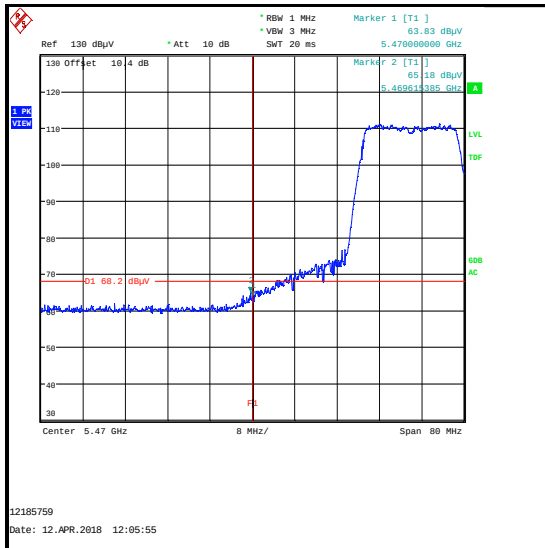
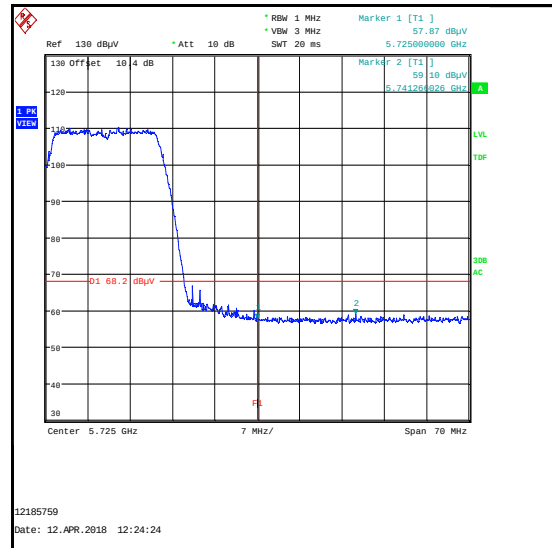
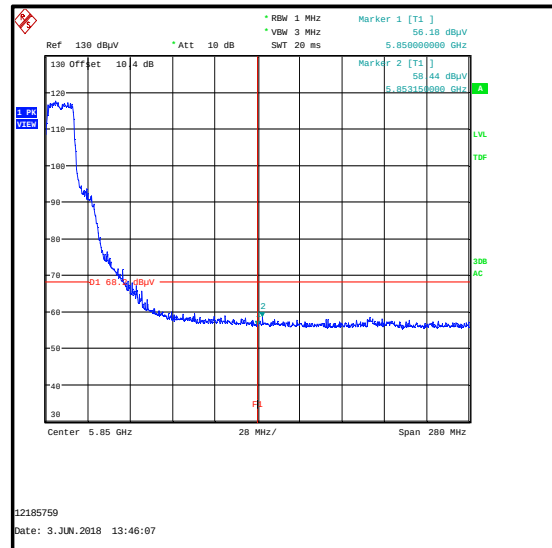
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5467.436	57.9	68.2	10.3	Complied
5470	56.7	68.2	11.5	Complied
5725	62.4	68.2	5.8	Complied
5726.987	64.9	68.2	3.3	Complied
5850	58.4	68.2	9.8	Complied
5856.286	59.4	68.2	8.8	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.615	-30.0	-27.0	3.0	Complied
5470	-31.4	-27.0	4.4	Complied
5725	-37.3	-27.0	10.3	Complied
5741.266	-36.1	-27.0	9.1	Complied
5850	-39.0	-27.0	12.0	Complied
5853.150	-36.8	-27.0	9.8	Complied

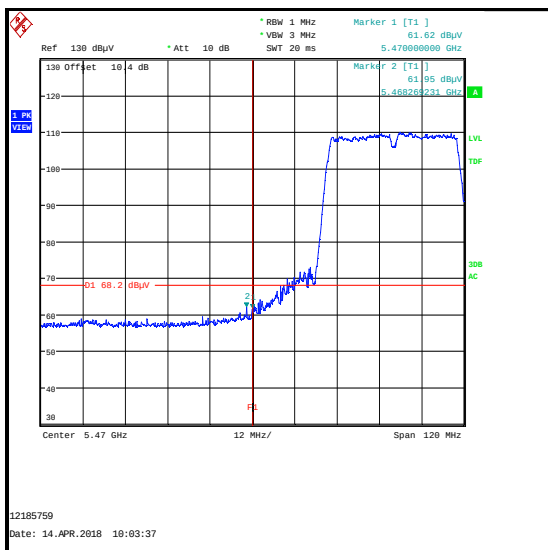
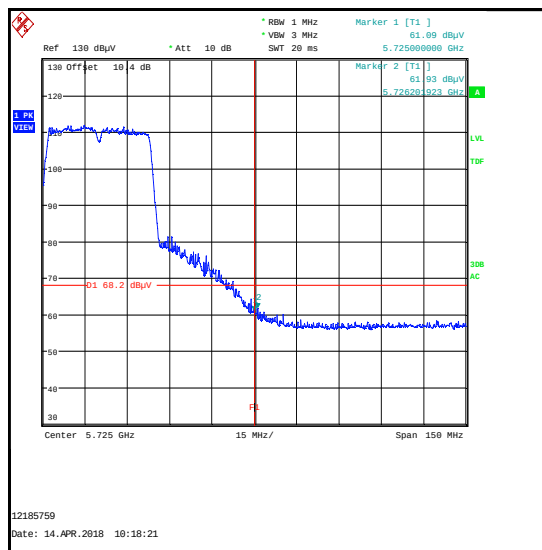
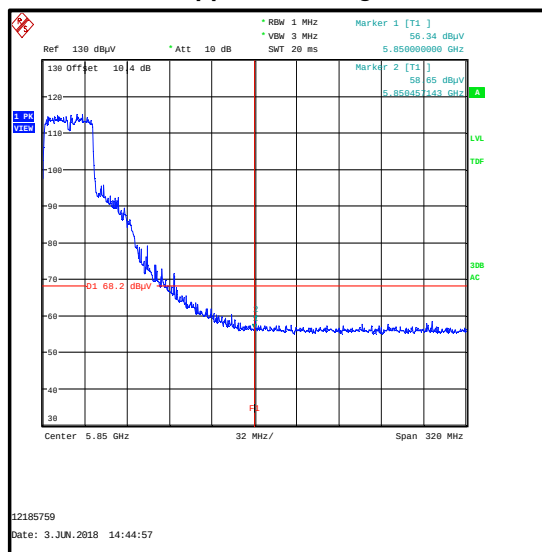
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.615	65.2	68.2	3.0	Complied
5470	63.8	68.2	4.4	Complied
5725	57.9	68.2	10.3	Complied
5741.266	59.1	68.2	9.1	Complied
5850	56.2	68.2	12.0	Complied
5853.150	58.4	68.2	9.8	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5468.269	-33.2	-27.0	6.2	Complied
5470	-33.6	-27.0	6.6	Complied
5725	-34.1	-27.0	7.1	Complied
5726.202	-33.3	-27.0	6.3	Complied
5850	-38.9	-27.0	11.9	Complied
5850.457	-36.5	-27.0	9.5	Complied

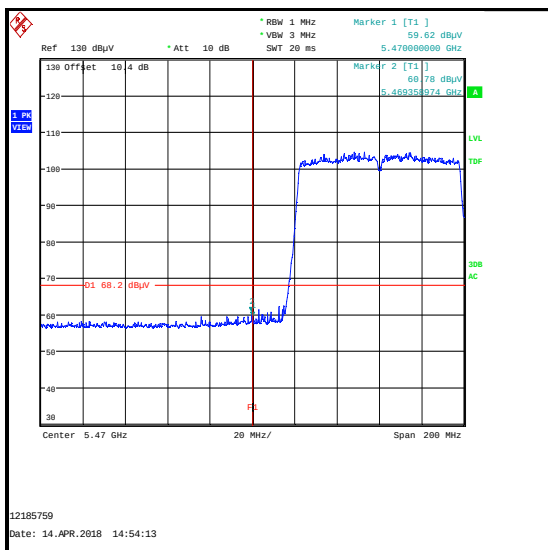
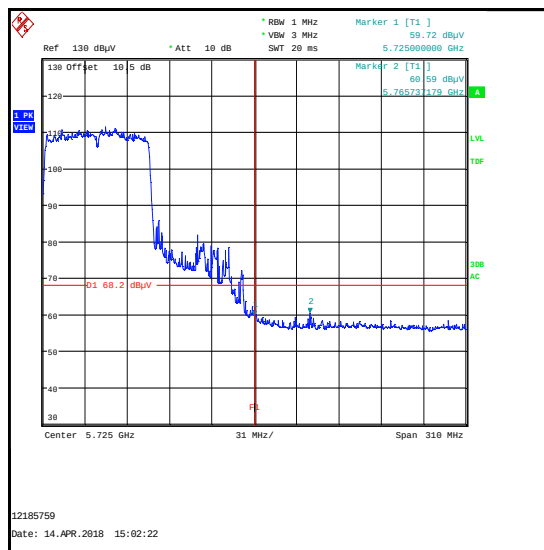
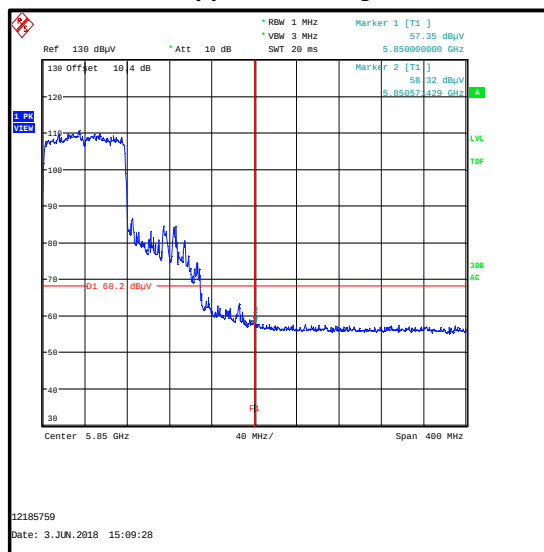
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5468.269	62.0	68.2	6.2	Complied
5470	61.6	68.2	6.6	Complied
5725	61.1	68.2	7.1	Complied
5726.202	61.9	68.2	6.3	Complied
5850	56.3	68.2	11.9	Complied
5850.457	58.7	68.2	9.5	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.359	-34.4	-27.0	7.4	Complied
5470	-35.6	-27.0	8.6	Complied
5725	-35.5	-27.0	8.5	Complied
5765.737	-34.6	-27.0	7.6	Complied
5850	-37.8	-27.0	10.8	Complied
5850.571	-36.9	-27.0	9.9	Complied

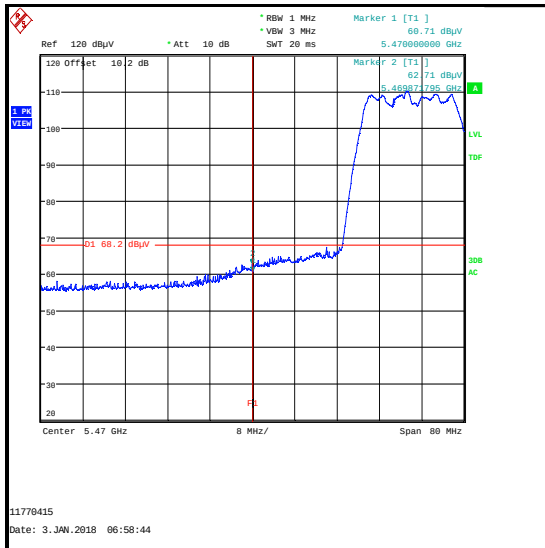
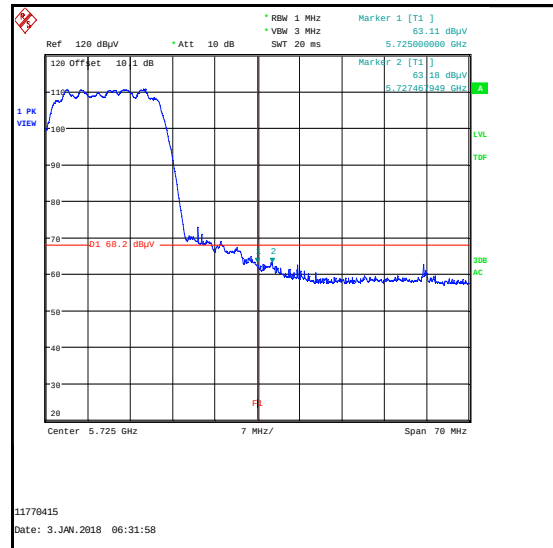
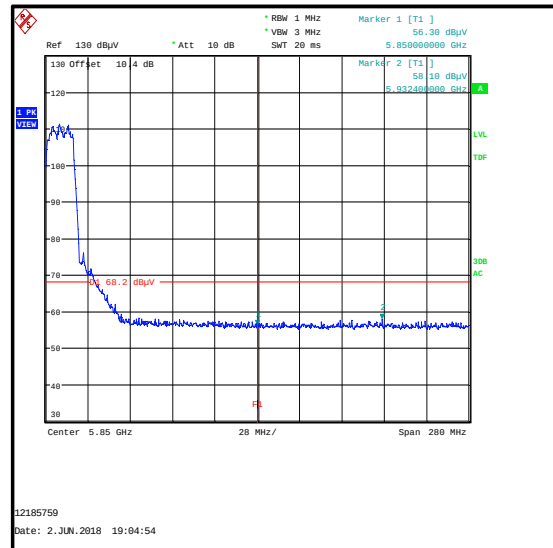
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.359	60.8	68.2	7.4	Complied
5470	59.6	68.2	8.6	Complied
5725	59.7	68.2	8.5	Complied
5765.737	60.6	68.2	7.6	Complied
5850	57.4	68.2	10.8	Complied
5850.571	58.3	68.2	9.9	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.872	-32.5	-27.0	5.5	Complied
5470	-34.5	-27.0	7.5	Complied
5725	-32.1	-27.0	5.1	Complied
5727.468	-32.0	-27.0	5.0	Complied
5850	-38.9	-27.0	11.9	Complied
5932.400	-37.1	-27.0	10.1	Complied

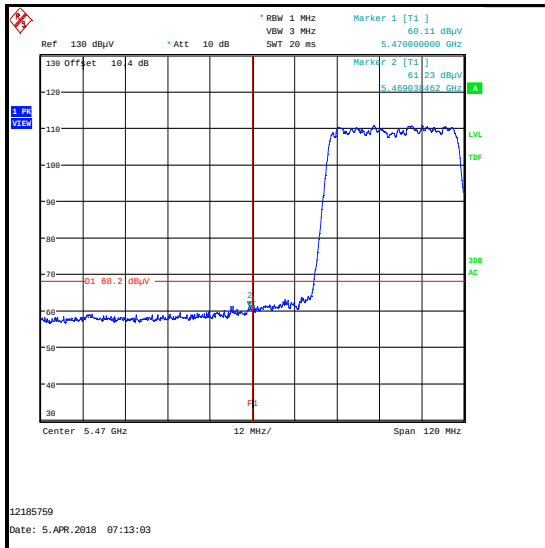
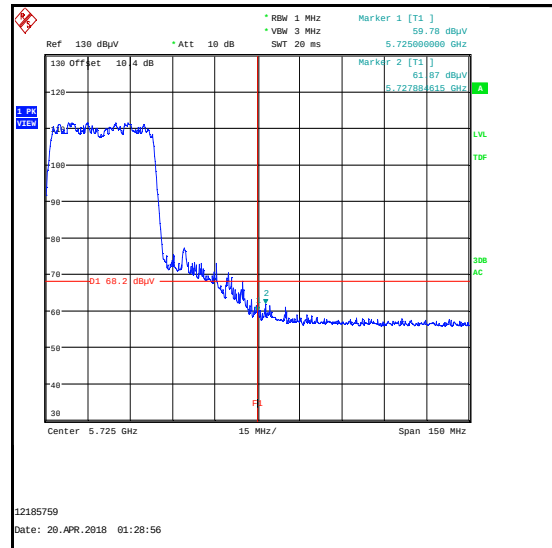
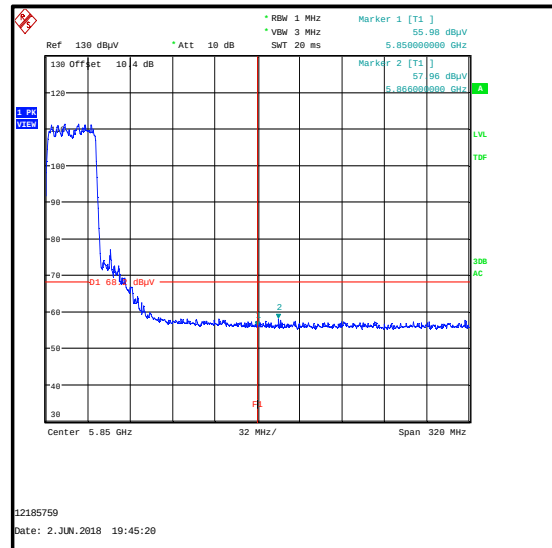
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.872	62.7	68.2	5.5	Complied
5470	60.7	68.2	7.5	Complied
5725	63.1	68.2	5.1	Complied
5727.468	63.2	68.2	5.0	Complied
5850	56.3	68.2	11.9	Complied
5932.400	58.1	68.2	10.1	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.038	-34.0	-27.0	7.0	Complied
5470	-35.1	-27.0	8.1	Complied
5725	-35.4	-27.0	8.4	Complied
5727.885	-33.3	-27.0	6.3	Complied
5850	-39.2	-27.0	12.2	Complied
5866.000	-37.2	-27.0	10.2	Complied

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.038	61.2	68.2	7.0	Complied
5470	60.1	68.2	8.1	Complied
5725	59.8	68.2	8.4	Complied
5727.885	61.9	68.2	6.3	Complied
5850	56.0	68.2	12.2	Complied
5866.000	58.0	68.2	10.2	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

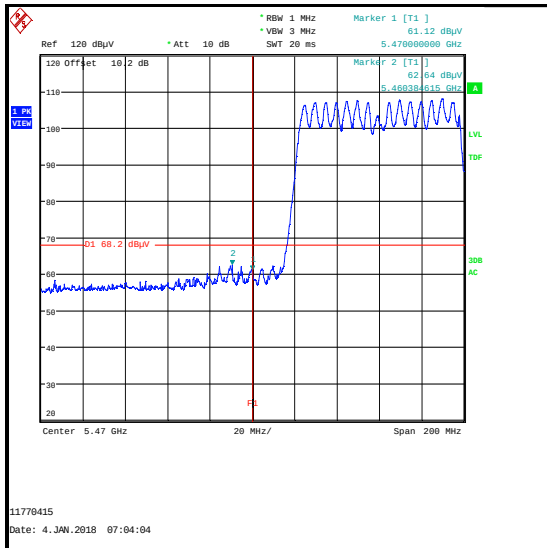
Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5460.385	-32.6	-27.0	5.6	Complied
5470	-34.1	-27.0	7.1	Complied
5725	-33.4	-27.0	6.4	Complied
5725.497	-31.1	-27.0	4.1	Complied
5850	-37.5	-27.0	10.5	Complied
5898.000	-36.7	-27.0	9.7	Complied

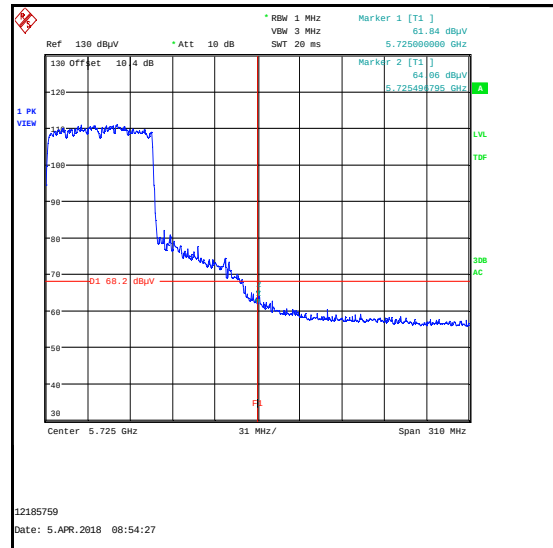
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5460.385	62.6	68.2	5.6	Complied
5470	61.1	68.2	7.1	Complied
5725	61.8	68.2	6.4	Complied
5725.497	64.1	68.2	4.1	Complied
5850	57.7	68.2	10.5	Complied
5898.000	58.5	68.2	9.7	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)

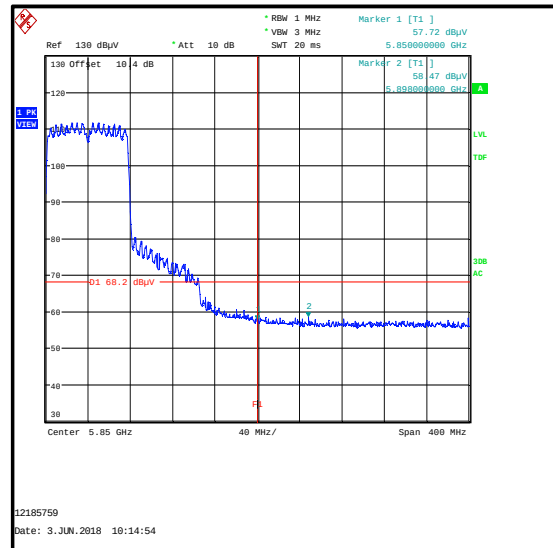
Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak



Lower Band Edge



Upper Band Edge

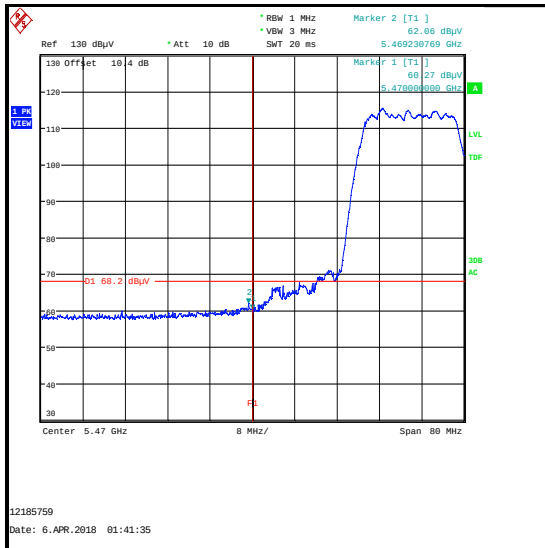
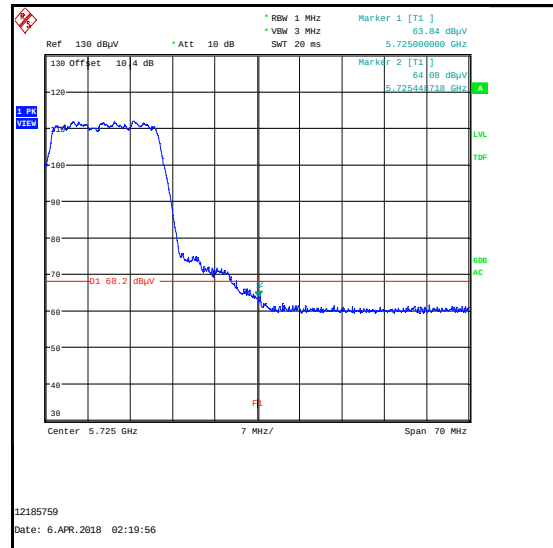
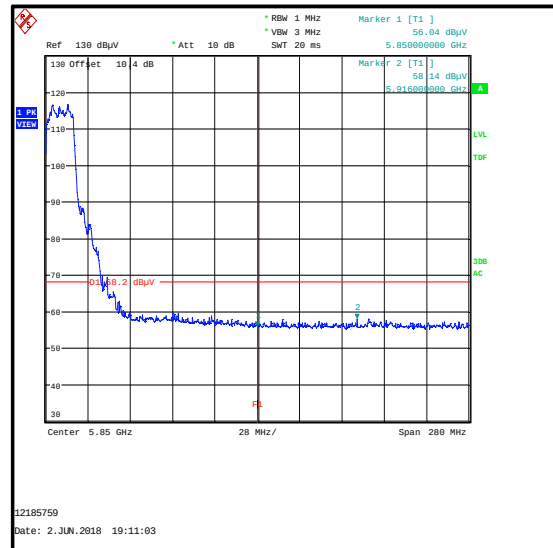


Straddle Channel emission level at 5850 MHz

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.231	-33.1	-27.0	6.1	Complied
5470	-34.9	-27.0	7.9	Complied
5725	-31.4	-27.0	4.4	Complied
5725.449	-31.1	-27.0	4.1	Complied
5850	-39.2	-27.0	12.2	Complied
5916.000	-37.1	-27.0	10.1	Complied

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.231	62.1	68.2	6.1	Complied
5470	60.3	68.2	7.9	Complied
5725	63.8	68.2	4.4	Complied
5725.449	64.1	68.2	4.1	Complied
5850	56.0	68.2	12.2	Complied
5916.000	58.1	68.2	10.1	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

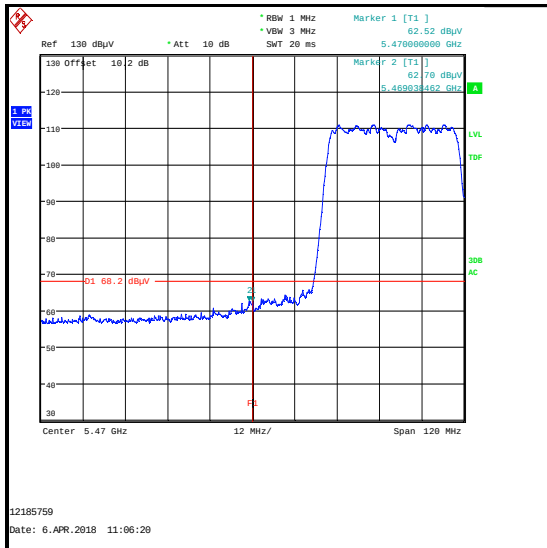
Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5469.038	-32.5	-27.0	5.5	Complied
5470	-32.7	-27.0	5.7	Complied
5725	-31.0	-27.0	4.0	Complied
5725.962	-30.0	-27.0	3.0	Complied
5850	-38.1	-27.0	11.1	Complied
5908.057	-36.9	-27.0	9.9	Complied

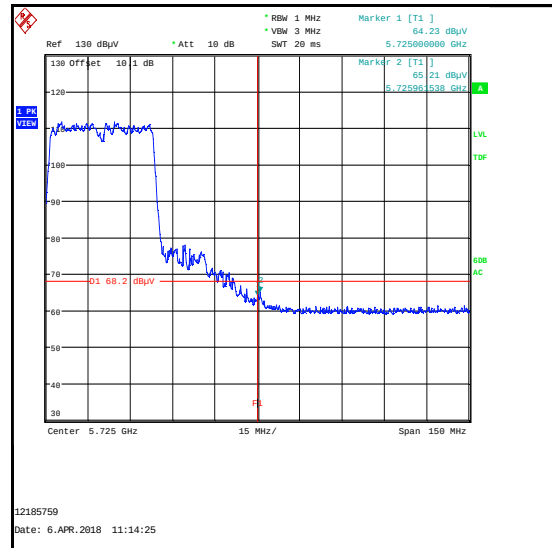
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5469.038	62.7	68.2	5.5	Complied
5470	62.5	68.2	5.7	Complied
5725	64.2	68.2	4.0	Complied
5725.962	65.2	68.2	3.0	Complied
5850	57.1	68.2	11.1	Complied
5908.057	58.3	68.2	9.9	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)

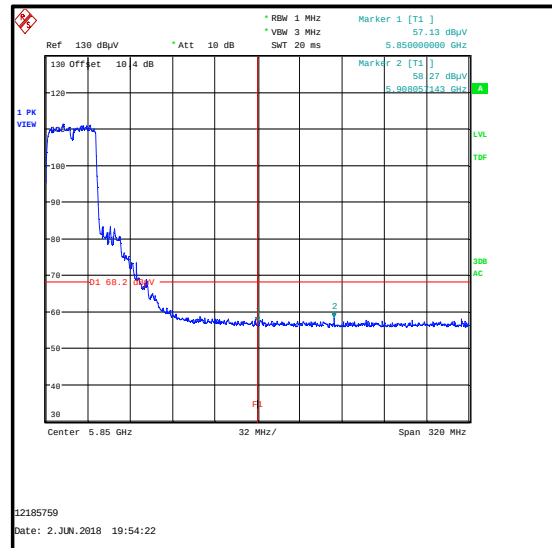
Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak



Lower Band Edge



Upper Band Edge

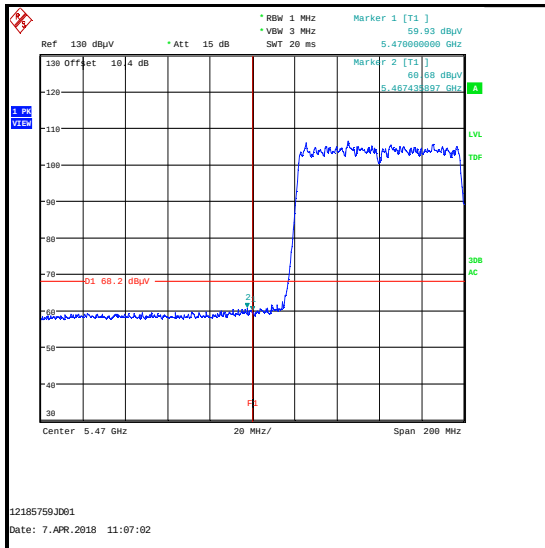
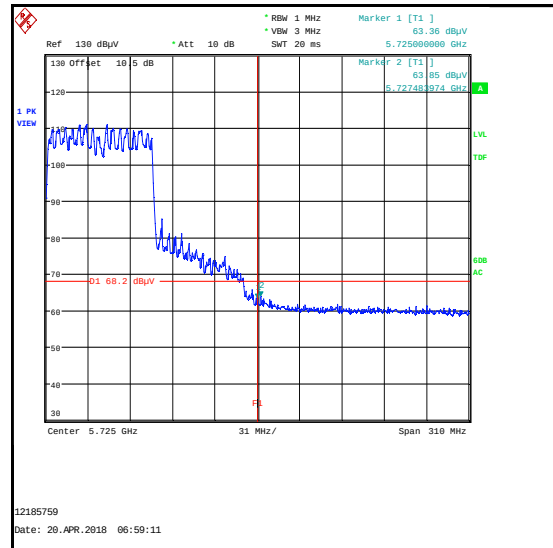
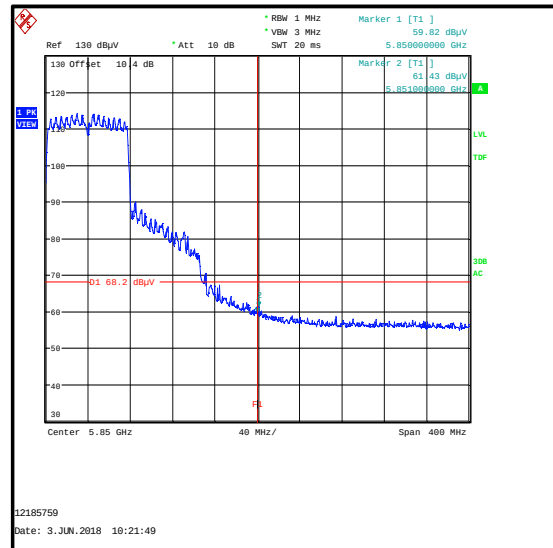


Straddle Channel emission level at 5850 MHz

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5467.436	-34.5	-27.0	7.5	Complied
5470	-35.3	-27.0	8.3	Complied
5725	-31.8	-27.0	4.8	Complied
5727.484	-31.3	-27.0	4.3	Complied
5850	-35.4	-27.0	8.4	Complied
5851.000	-33.8	-27.0	6.8	Complied

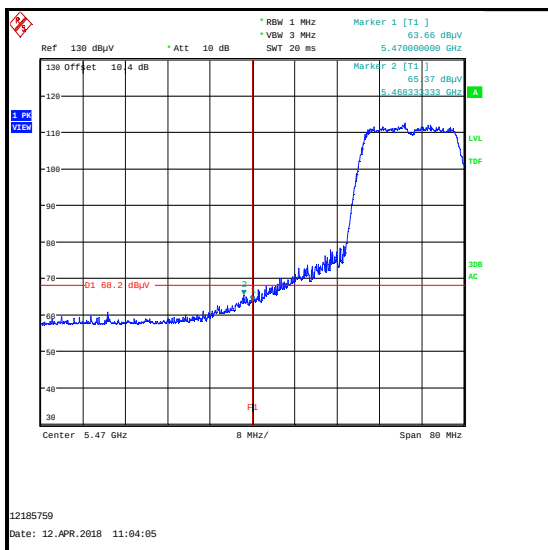
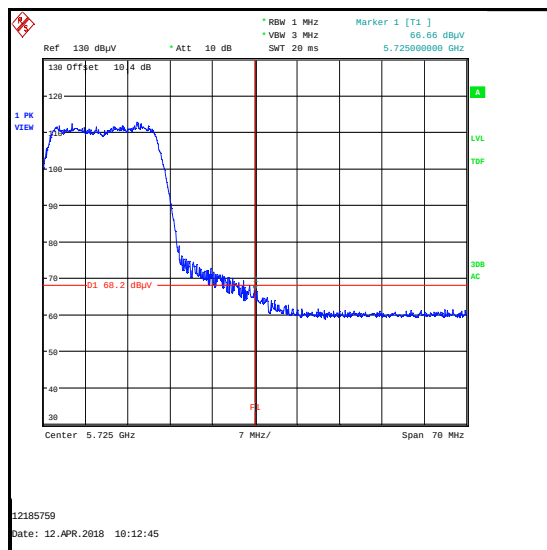
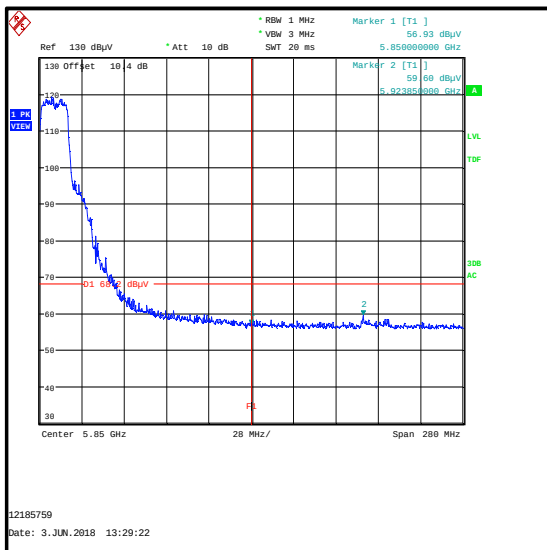
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5467.436	60.7	68.2	7.5	Complied
5470	59.9	68.2	8.3	Complied
5725	63.4	68.2	4.8	Complied
5727.484	63.9	68.2	4.3	Complied
5850	59.8	68.2	8.4	Complied
5851.000	61.4	68.2	6.8	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5468.333	-29.8	-27.0	2.8	Complied
5470	-31.5	-27.0	4.5	Complied
5725	-28.5	-27.0	1.5	Complied
5850	-38.3	-27.0	11.3	Complied
5923.850	-35.6	-27.0	8.6	Complied

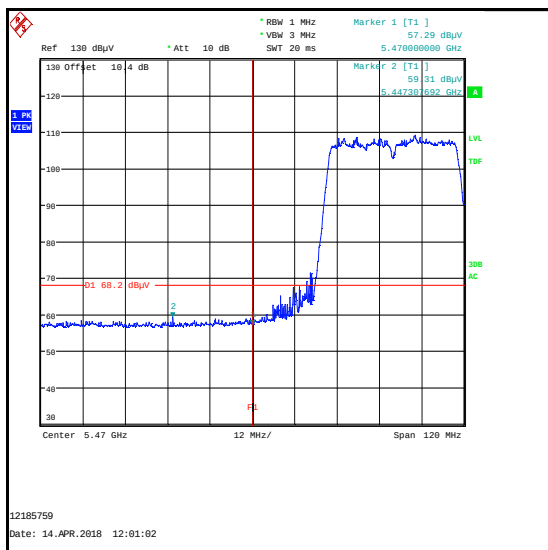
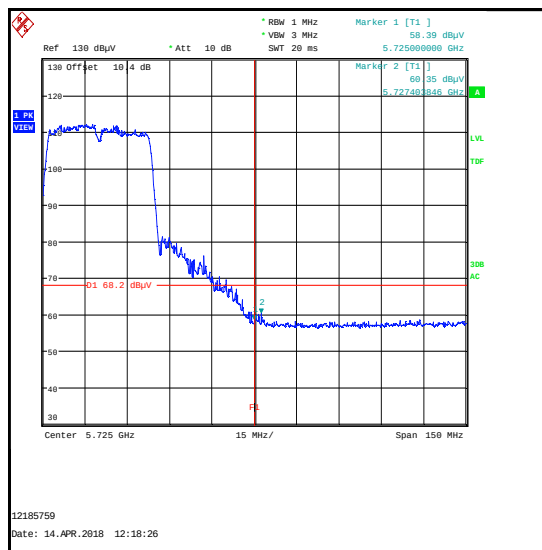
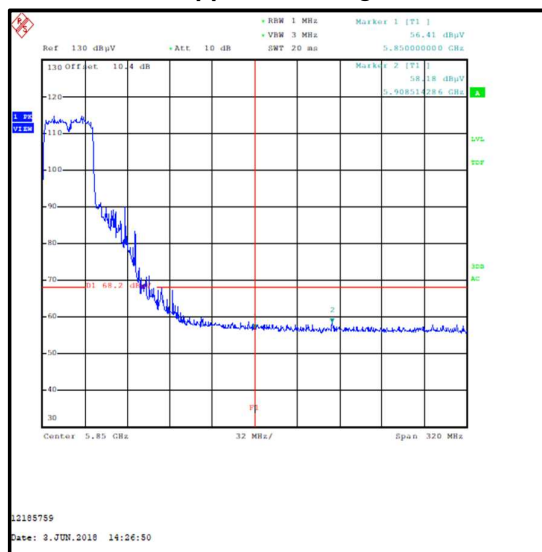
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5468.333	65.4	68.2	2.8	Complied
5470	63.7	68.2	4.5	Complied
5725	66.7	68.2	1.5	Complied
5850	56.9	68.2	11.3	Complied
5923.850	59.6	68.2	8.6	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5447.308	-35.9	-27.0	8.9	Complied
5470	-37.9	-27.0	10.9	Complied
5725	-36.8	-27.0	9.8	Complied
5727.404	-34.8	-27.0	7.8	Complied
5850	-38.8	-27.0	11.8	Complied
5908.514	-37.0	-27.0	10.0	Complied

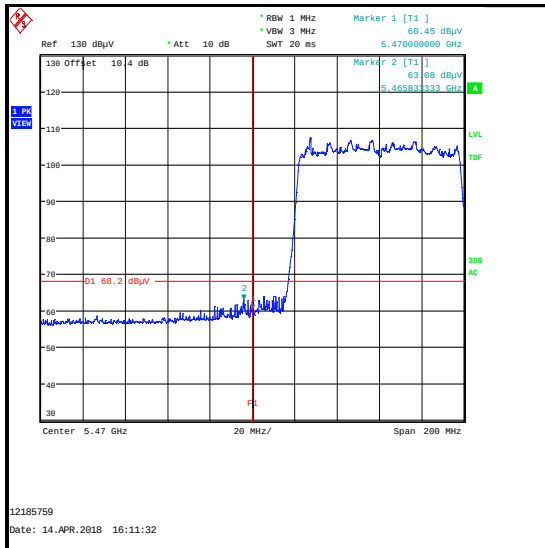
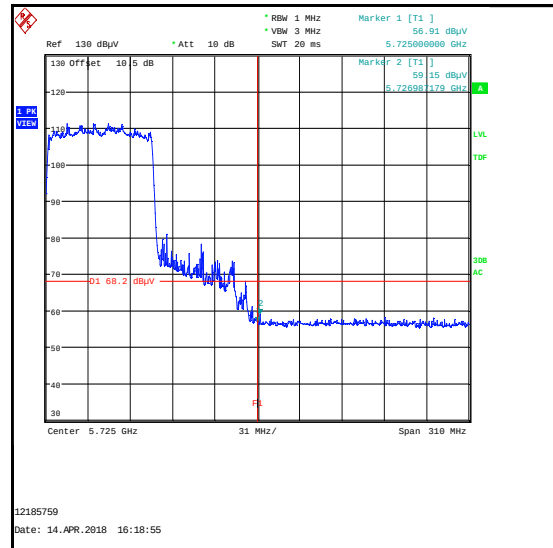
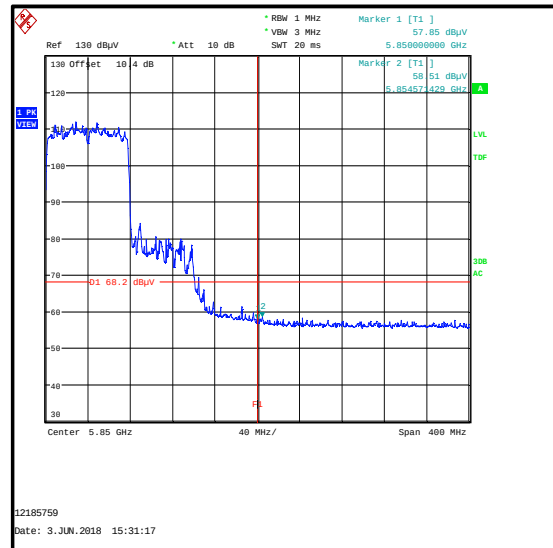
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5447.308	59.3	68.2	8.9	Complied
5470	57.3	68.2	10.9	Complied
5725	58.4	68.2	9.8	Complied
5727.404	60.4	68.2	7.8	Complied
5850	56.4	68.2	11.8	Complied
5908.514	58.2	68.2	10.0	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
5465.833	-32.1	-27.0	5.1	Complied
5470	-34.7	-27.0	7.7	Complied
5725	-38.3	-27.0	11.3	Complied
5726.987	-36.0	-27.0	9.0	Complied
5850	-37.3	-27.0	10.3	Complied
5854.571	-36.7	-27.0	9.7	Complied

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
5465.833	63.1	68.2	5.1	Complied
5470	60.5	68.2	7.7	Complied
5725	56.9	68.2	11.3	Complied
5726.987	59.2	68.2	9.0	Complied
5850	57.9	68.2	10.3	Complied
5854.571	58.5	68.2	9.7	Complied

Transmitter Band Edge Radiated Emissions (5.47-5.725 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak****Lower Band Edge****Upper Band Edge****Straddle Channel emission level at 5850 MHz**

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band)**5.3.4. 5.725-5.85 GHz band****Test Summary:**

Test Engineers:	James O'Reilly, Alan Withers Andrew Edwards, Tom Sleigh & John, Ferdinand	Test Dates:	03 January 2018 to 26 April 2018
Test Sample Serial Numbers:	C02WC006JTGW & C02VP00AJLDY		

FCC Reference:	Parts 15.407(b)(4)(i),(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

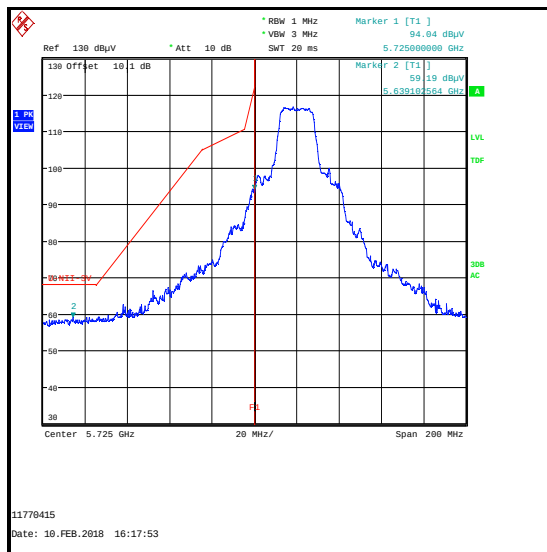
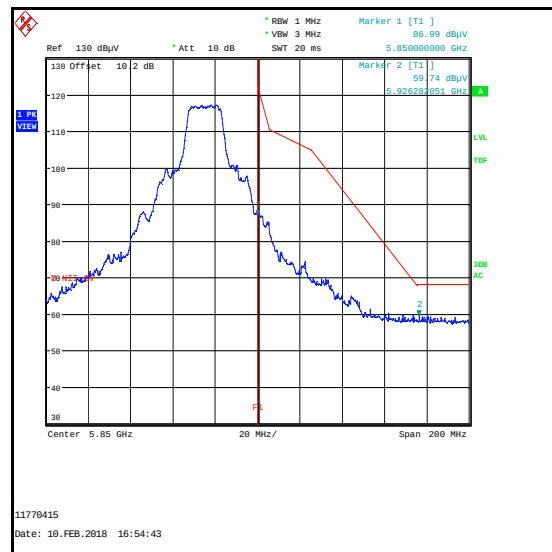
Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Note(s):**

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 completeness, results are also shown as EIRP in dBm and also as field strength in dB μ V/m. Measured field strength was converted to EIRP in accordance with KDB 789033 G.2.c)(iii) using a conversion factor of 95.2.

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11a / 20 MHz / BPSK / 6 Mbps / Core 0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5639.103	-36.0	-27.0	9.0	Complied
5725	-1.2	27.0	28.2	Complied
5850	-8.2	27.0	35.2	Complied
5926.282	-35.5	-27.0	8.5	Complied

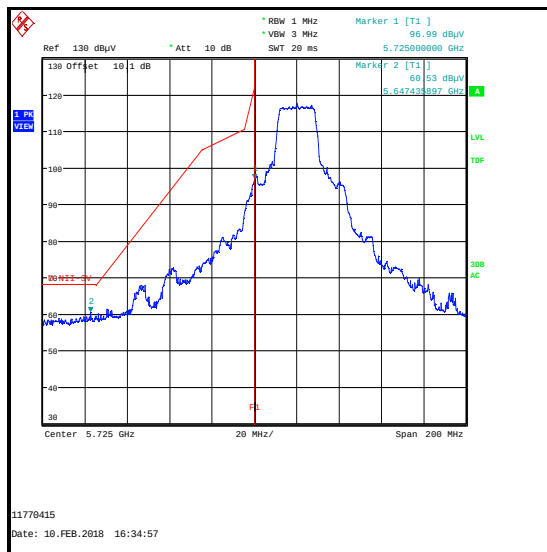
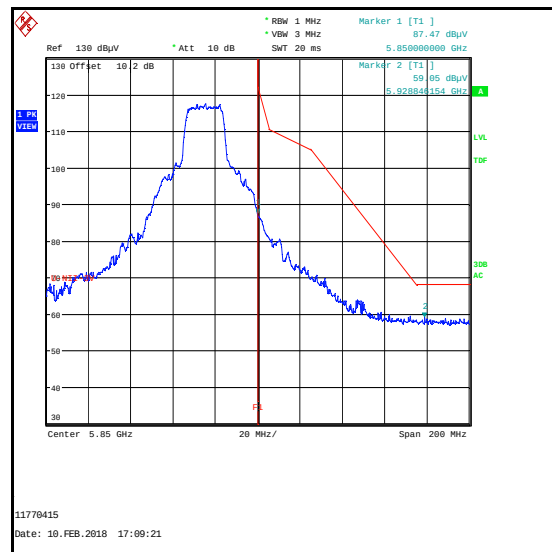
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5639.103	59.2	68.2	9.0	Complied
5725	94.0	122.2	28.2	Complied
5850	87.0	122.2	35.2	Complied
5926.282	59.7	68.2	8.5	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 20 MHz / SISO / BPSK / MCS0 / Core 0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5647.436	-34.7	-27.0	7.7	Complied
5725	1.8	27.0	25.2	Complied
5850	-7.7	27.0	34.7	Complied
5928.846	-36.1	-27.0	9.1	Complied

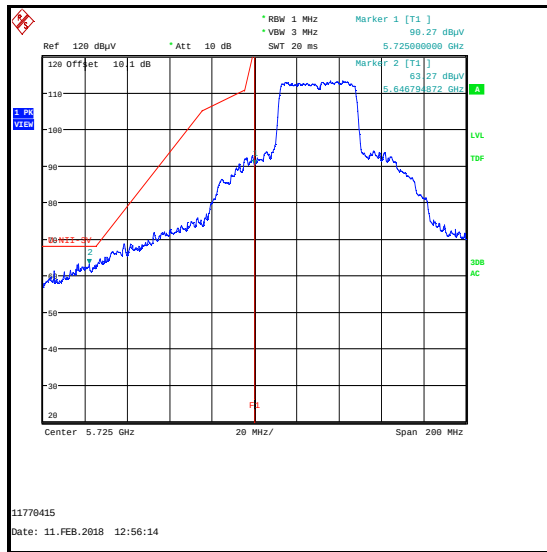
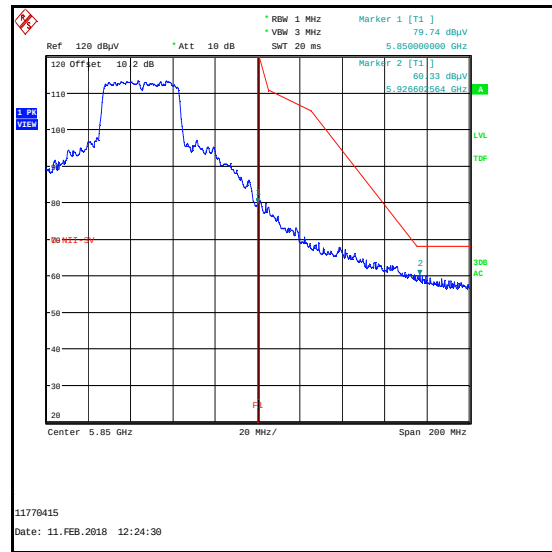
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5647.436	60.5	68.2	7.7	Complied
5725	97.0	122.2	25.2	Complied
5850	87.5	122.2	34.7	Complied
5928.846	59.1	68.2	9.1	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 40 MHz / SISO / BPSK / MCS0 / Core 0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5646.795	-31.9	-27.0	4.9	Complied
5725	-4.9	27.0	31.9	Complied
5850	-15.5	27.0	42.5	Complied
5926.603	-34.9	-27.0	7.9	Complied

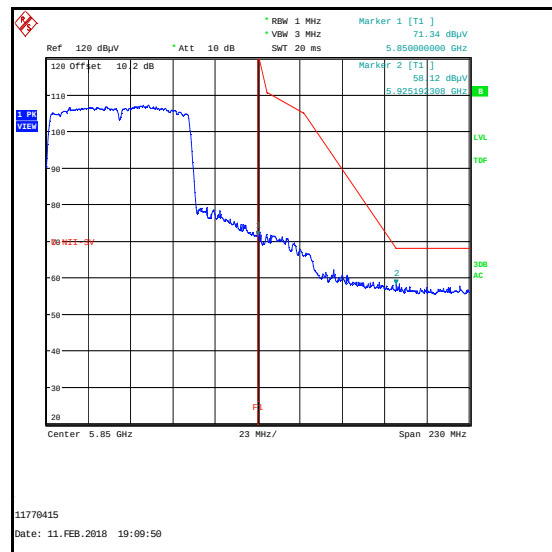
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5646.795	63.3	68.2	4.9	Complied
5725	90.3	122.2	31.9	Complied
5850	79.7	122.2	42.5	Complied
5926.603	60.3	68.2	7.9	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / SISO / BPSK / MCS0 / Core 0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5650.962	-31.9	-26.3	4.9	Complied
5725	-18.2	27.0	45.2	Complied
5850	-23.9	27.0	50.9	Complied
5925.192	-37.1	-27.0	10.1	Complied

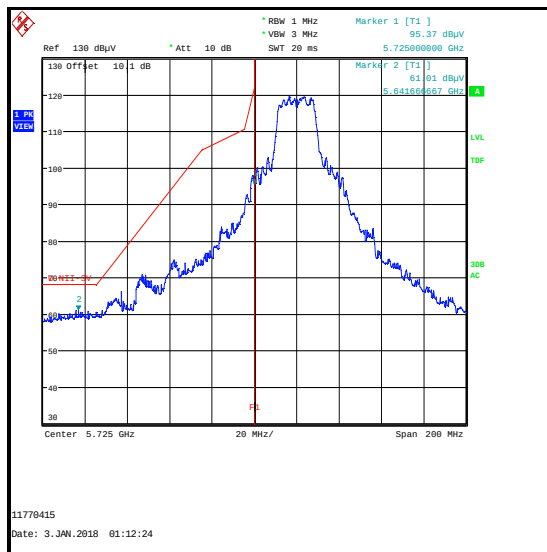
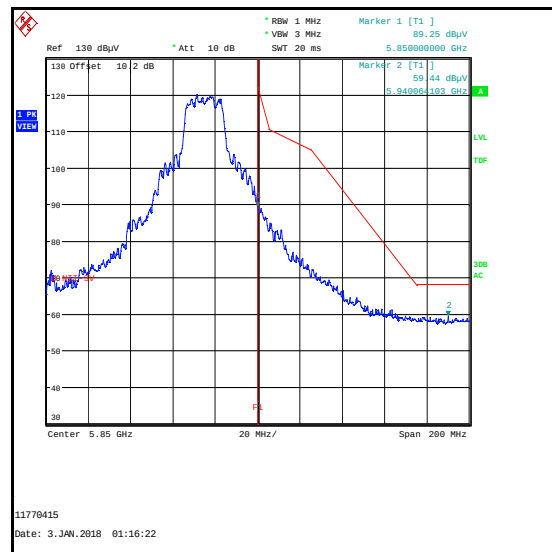
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5650.962	63.3	68.9	4.9	Complied
5725	77.0	122.2	45.2	Complied
5850	71.3	122.2	50.9	Complied
5925.192	58.1	68.2	10.1	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5641.667	-34.2	-27.0	7.2	Complied
5725	0.2	27.0	26.8	Complied
5850	-5.9	27.0	32.9	Complied
5940.064	-35.8	-27.0	8.8	Complied

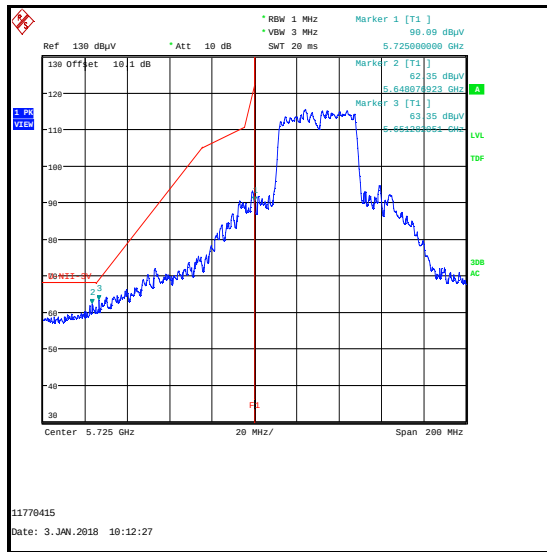
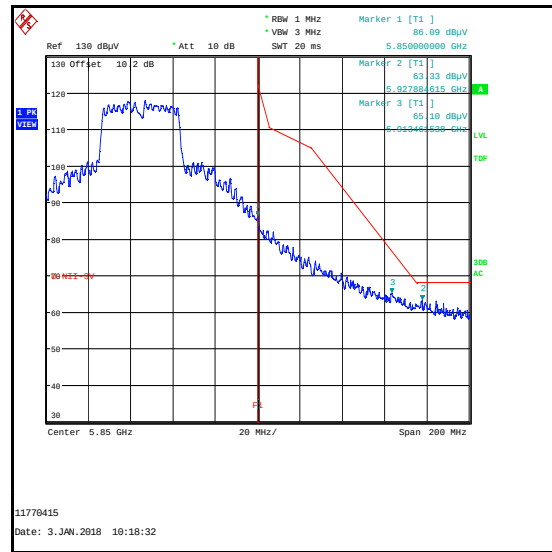
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5641.667	61.0	68.2	7.2	Complied
5725	95.4	122.2	26.8	Complied
5850	89.3	122.2	32.9	Complied
5940.064	59.4	68.2	8.8	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5648.077	-32.8	-27.0	5.8	Complied
5725	-5.1	27.0	32.1	Complied
5850	-9.1	27.0	36.1	Complied
5927.885	-31.9	-27.0	4.9	Complied

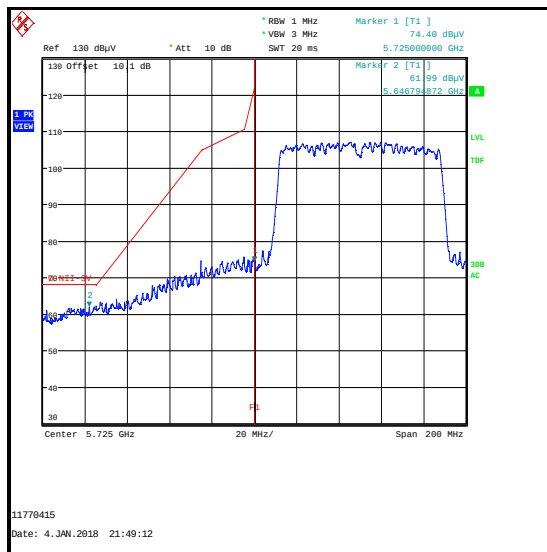
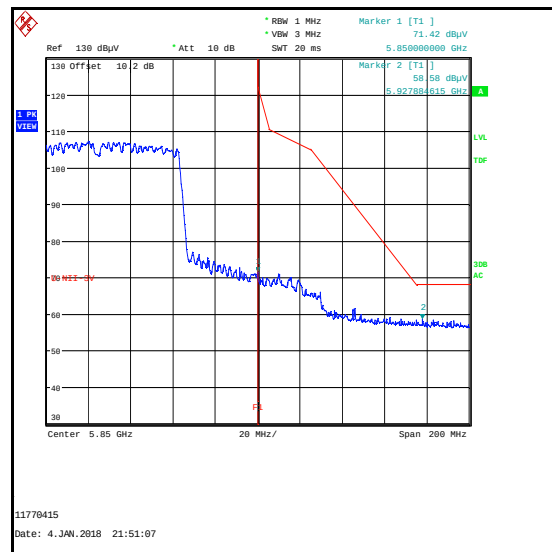
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5648.077	62.4	68.2	5.8	Complied
5725	90.1	122.2	32.1	Complied
5850	86.1	122.2	36.1	Complied
5927.885	63.3	68.2	4.9	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5646.795	-33.2	-27.0	6.2	Complied
5725	-20.8	27.0	47.8	Complied
5850	-23.8	27.0	50.8	Complied
5927.885	-36.6	-27.0	9.6	Complied

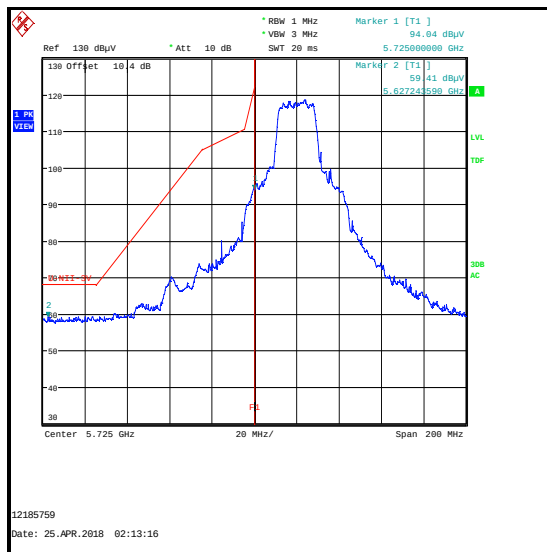
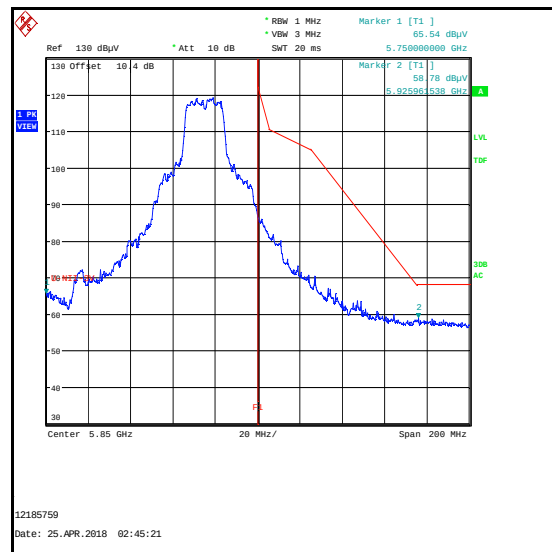
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5646.795	62.0	68.2	6.2	Complied
5725	74.4	122.2	47.8	Complied
5850	71.4	122.2	50.8	Complied
5927.885	58.6	68.2	9.6	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5627.244	-35.8	-27.0	8.8	Complied
5725	-1.2	27.0	28.2	Complied
5850	-29.7	27.0	56.7	Complied
5925.962	-36.4	-27.0	9.4	Complied

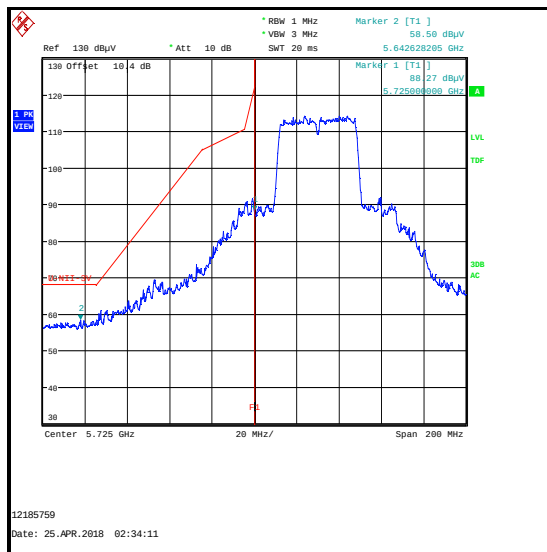
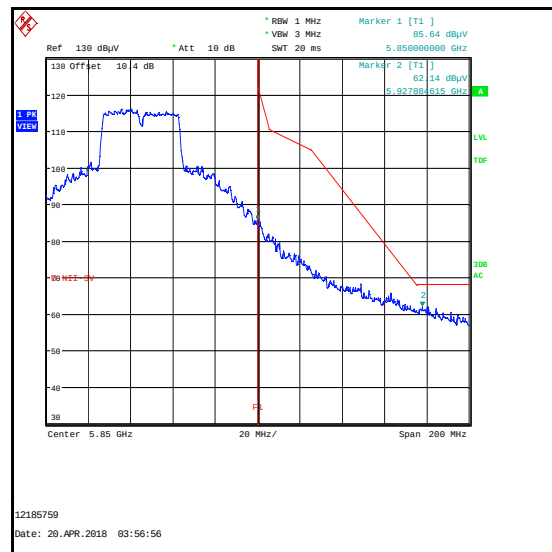
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5627.244	59.4	68.2	8.8	Complied
5725	94.0	122.2	28.2	Complied
5850	65.5	122.2	56.7	Complied
5925.962	58.8	68.2	9.4	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5642.628	-36.7	-27.0	9.7	Complied
5725	-6.9	27.0	33.9	Complied
5850	-9.6	27.0	36.6	Complied
5927.885	-33.1	-27.0	6.1	Complied

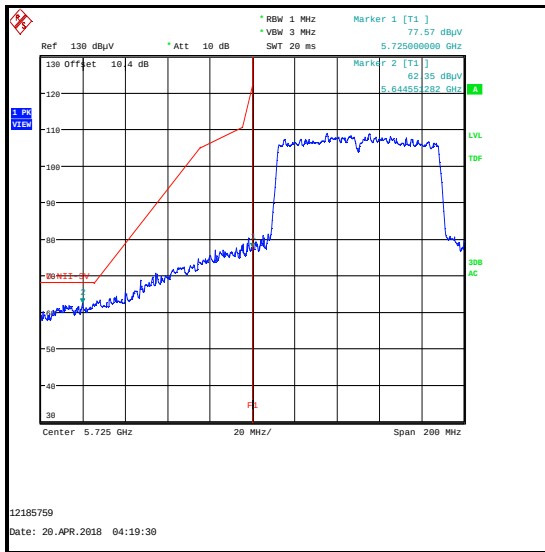
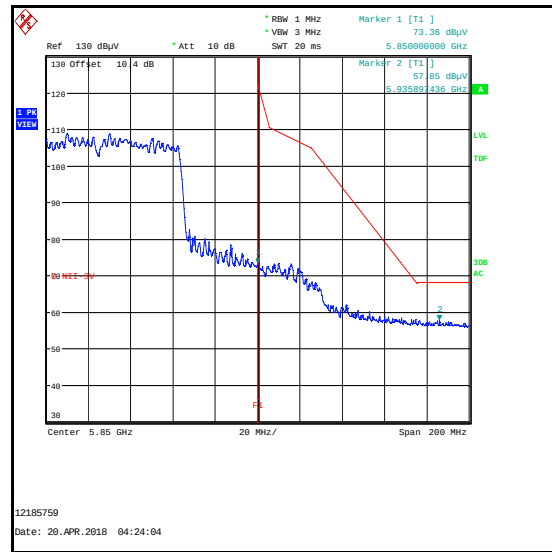
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5642.628	58.5	68.2	9.7	Complied
5725	88.3	122.2	33.9	Complied
5850	85.6	122.2	36.6	Complied
5927.885	62.1	68.2	6.1	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5644.551	-32.8	-27.0	5.8	Complied
5725	-17.6	27.0	44.6	Complied
5850	-21.8	27.0	48.8	Complied
5935.897	-37.3	-27.0	10.3	Complied

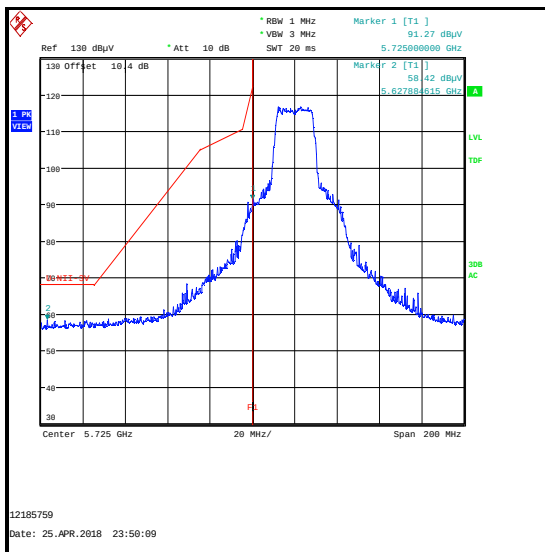
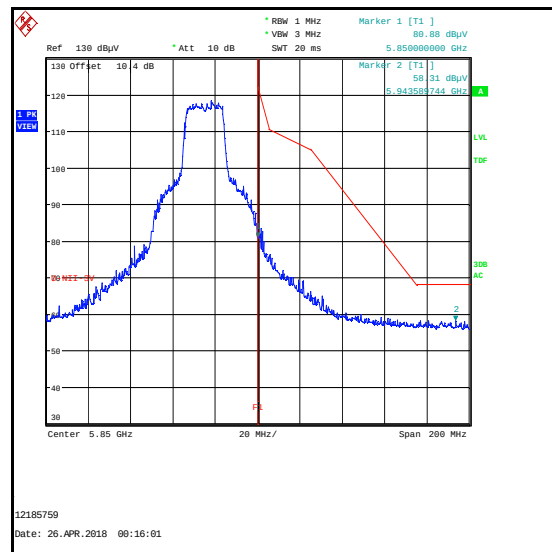
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5644.551	62.4	68.2	5.8	Complied
5725	77.6	122.2	44.6	Complied
5850	73.4	122.2	48.8	Complied
5935.897	57.9	68.2	10.3	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5627.885	-36.8	-27.0	9.8	Complied
5725	-3.9	27.0	30.9	Complied
5850	-14.3	27.0	41.3	Complied
5943.590	-36.9	-27.0	9.9	Complied

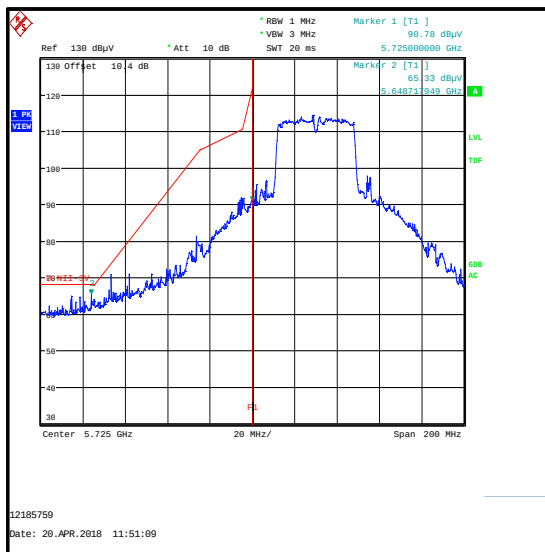
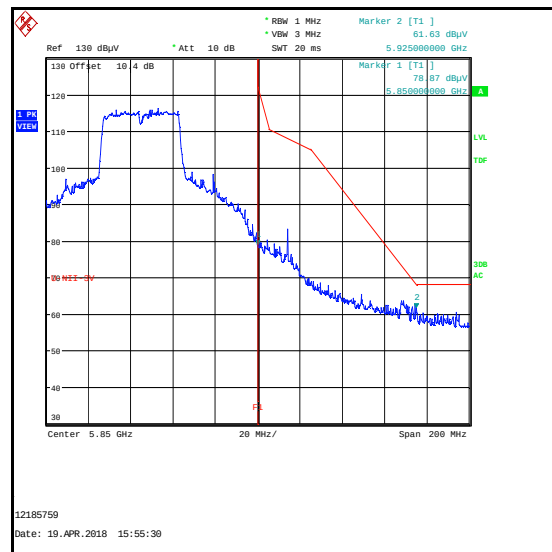
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5627.885	58.4	68.2	9.8	Complied
5725	91.3	122.2	30.9	Complied
5850	80.9	122.2	41.3	Complied
5943.590	58.3	68.2	9.9	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5648.718	-29.9	-27.0	2.9	Complied
5725	-4.4	27.0	31.4	Complied
5850	-16.3	27.0	43.3	Complied
5925.000	-33.6	-27.0	6.6	Complied

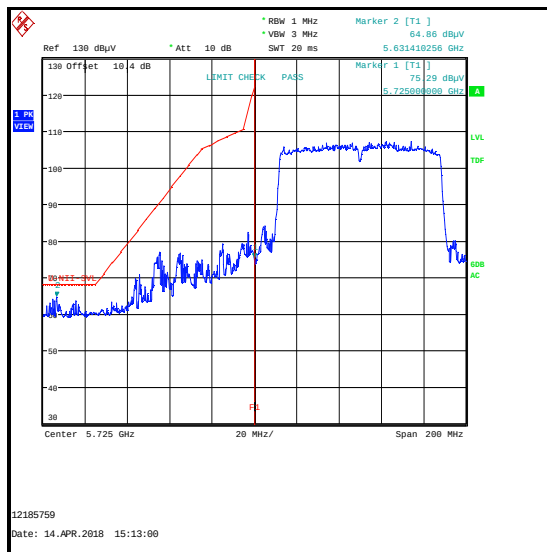
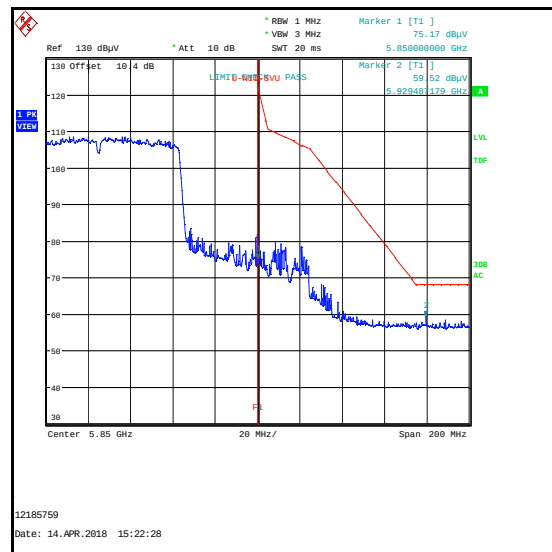
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5648.718	65.3	68.2	2.9	Complied
5725	90.8	122.2	31.4	Complied
5850	78.9	122.2	43.3	Complied
5925.000	61.6	68.2	6.6	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 2Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5631.410	-30.3	-27.0	3.3	Complied
5725	-19.9	27.0	46.9	Complied
5850	-20.0	27.0	47.0	Complied
5929.487	-35.7	-27.0	8.7	Complied

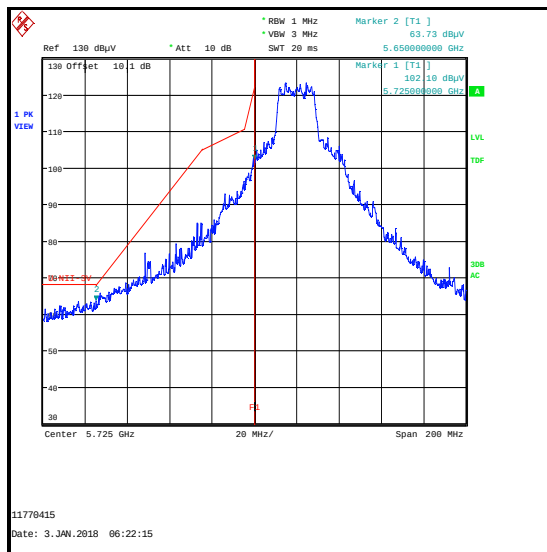
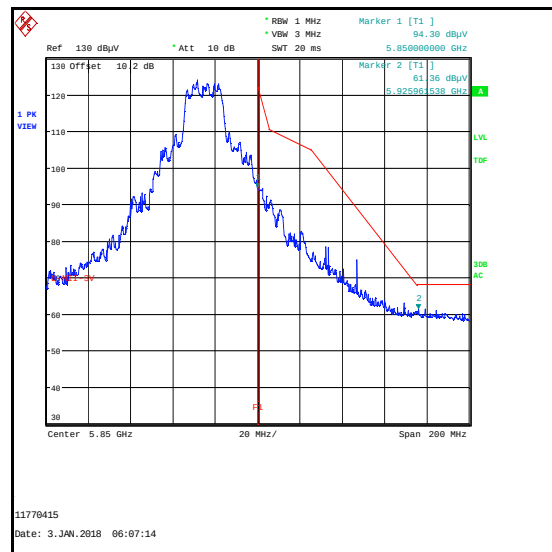
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5631.410	64.9	68.2	3.3	Complied
5725	75.3	122.2	46.9	Complied
5850	75.2	122.2	47.0	Complied
5929.487	59.5	68.2	8.7	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5650.000	-31.5	-27.0	4.5	Complied
5725	6.9	27.0	20.1	Complied
5850	-0.9	27.0	27.9	Complied
5925.962	-33.8	-27.0	6.8	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5650.000	63.7	68.2	4.5	Complied
5725	102.1	122.2	20.1	Complied
5850	94.3	122.2	27.9	Complied
5925.962	61.4	68.2	6.8	Complied

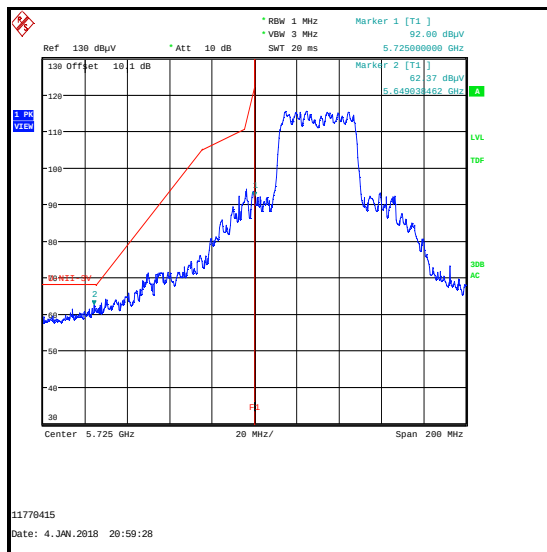
**Lower Band Edge****Upper Band Edge**

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

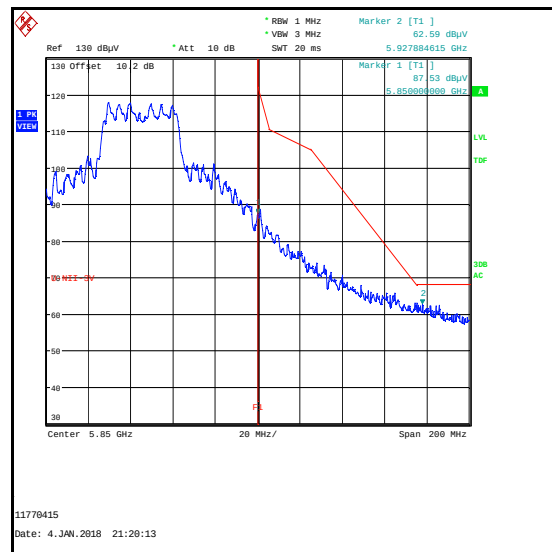
Results: 802.11n / 40 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5649.038	-32.8	-27.0	5.8	Complied
5725	-3.2	27.0	30.2	Complied
5850	-7.7	27.0	34.7	Complied
5927.885	-32.6	-27.0	5.6	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5649.038	62.4	68.2	5.8	Complied
5725	92.0	122.2	30.2	Complied
5850	87.5	122.2	34.7	Complied
5927.885	62.6	68.2	5.6	Complied



Lower Band Edge

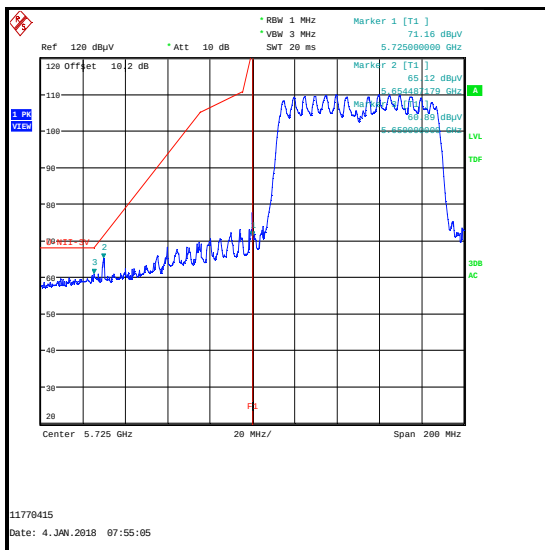
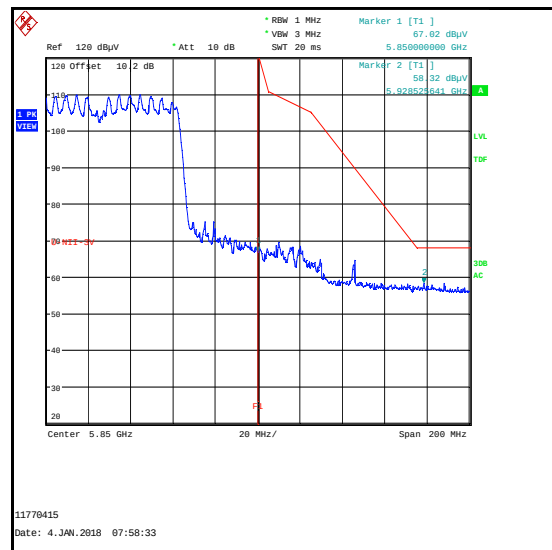


Upper Band Edge

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx CDD / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5650.000	-34.3	-27.0	7.3	Complied
5654.487	-30.1	-23.7	6.4	Complied
5725	-24.0	27.0	51.0	Complied
5850	-28.2	27.0	55.2	Complied
5928.526	-36.9	-27.0	9.9	Complied

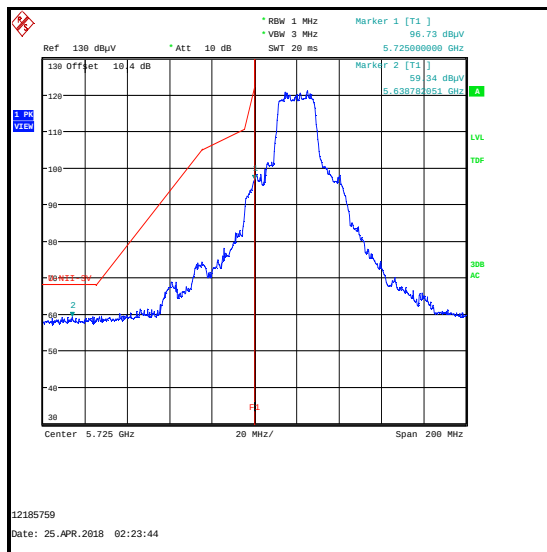
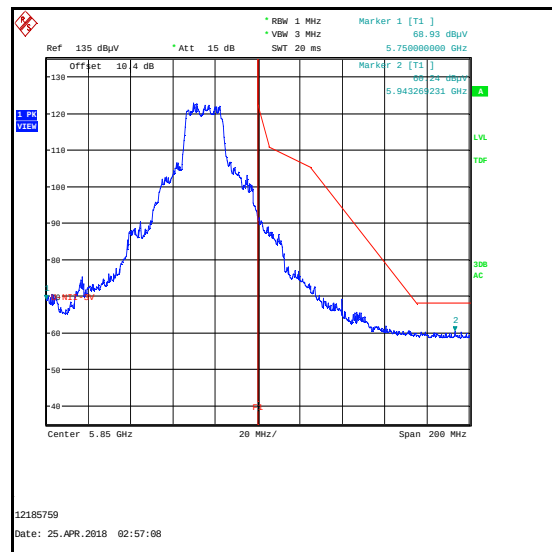
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5650.000	60.9	68.2	7.3	Complied
5654.487	65.1	71.5	6.4	Complied
5725	71.2	122.2	51.0	Complied
5850	67.0	122.2	55.2	Complied
5928.526	58.3	68.2	9.9	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5638.782	-35.9	-27.0	8.9	Complied
5725	1.5	27.0	25.5	Complied
5850	-26.3	27.0	53.3	Complied
5943.269	-35.0	-27.0	8.0	Complied

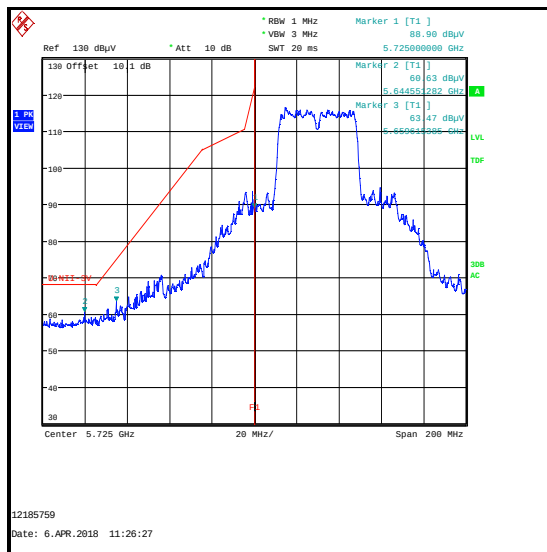
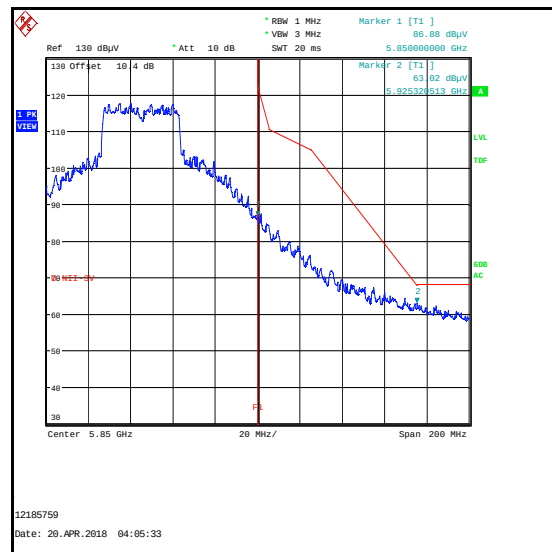
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5638.782	59.3	68.2	8.9	Complied
5725	96.7	122.2	25.5	Complied
5850	68.9	122.2	53.3	Complied
5943.269	60.2	68.2	8.0	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5644.551	-34.6	-27.0	7.6	Complied
5725	-6.3	27.0	33.3	Complied
5850	-8.3	27.0	35.3	Complied
5925.321	-32.2	-27.0	5.2	Complied

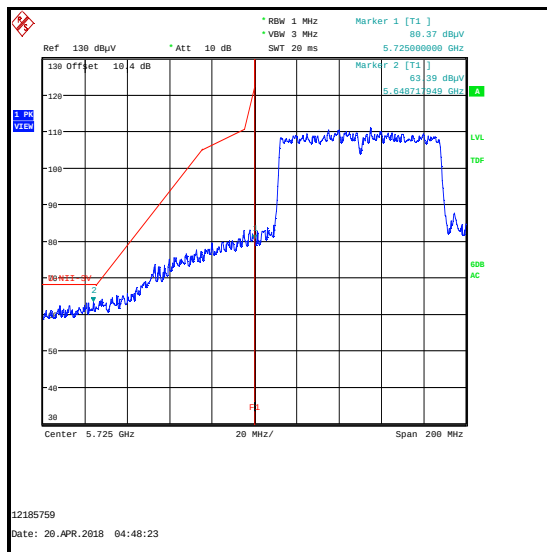
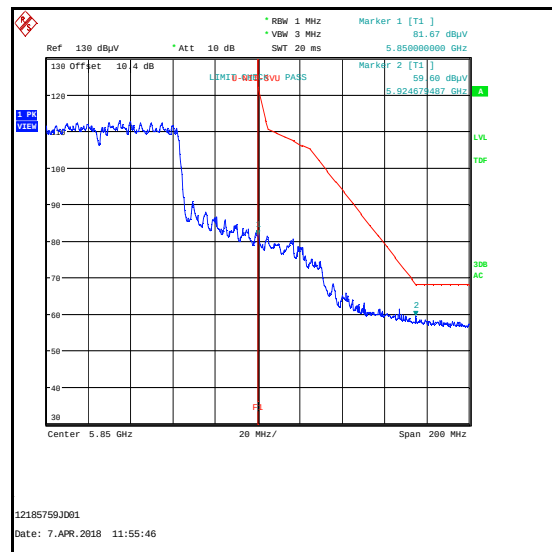
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5644.551	60.6	68.2	7.6	Complied
5725	88.9	122.2	33.3	Complied
5850	86.9	122.2	35.3	Complied
5925.321	63.0	68.2	5.2	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx STBC / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5648.718	-31.8	-27.0	4.8	Complied
5725	-14.8	27.0	41.8	Complied
5850	-13.5	27.0	40.5	Complied
5924.679	-35.6	-27.0	8.6	Complied

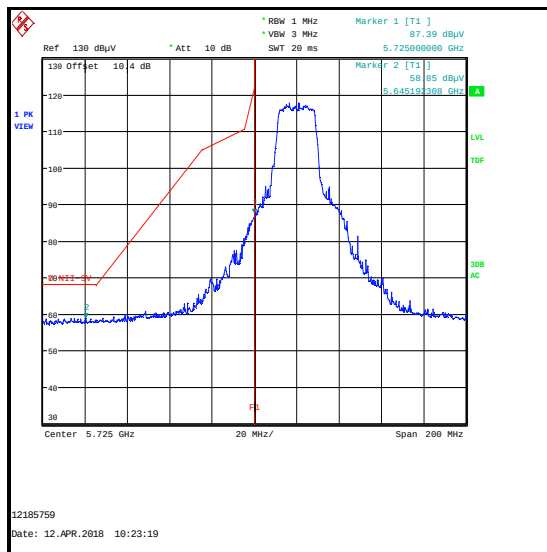
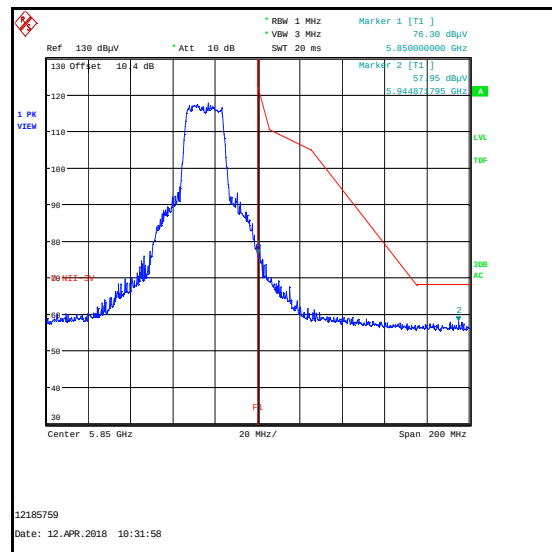
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5648.718	63.4	68.2	4.8	Complied
5725	80.4	122.2	41.8	Complied
5850	81.7	122.2	40.5	Complied
5924.679	59.6	68.2	8.6	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 20 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5645.192	-36.3	-27.0	9.3	Complied
5725	-7.8	27.0	34.8	Complied
5850	-18.9	27.0	45.9	Complied
5944.872	-37.2	-27.0	10.2	Complied

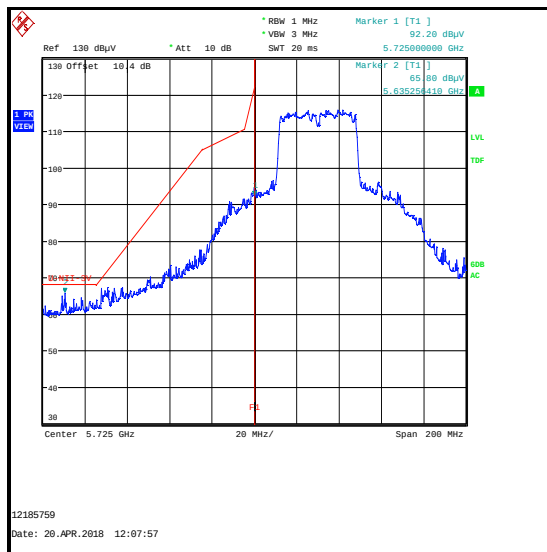
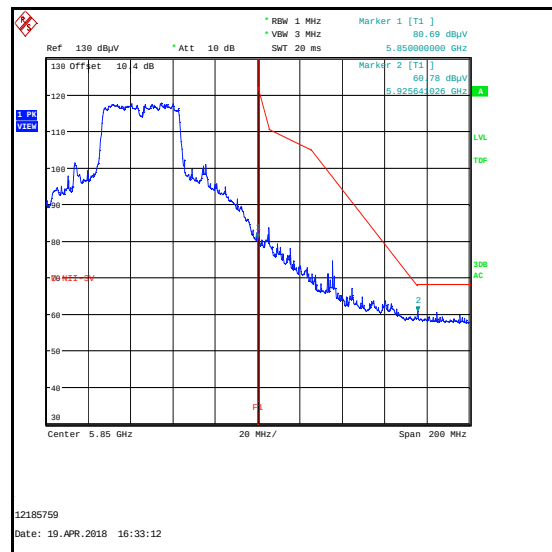
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5645.192	58.9	68.2	9.3	Complied
5725	87.4	122.2	34.8	Complied
5850	76.3	122.2	45.9	Complied
5944.872	58.0	68.2	10.2	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11n / 40 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5635.256	-29.4	-27.0	2.4	Complied
5725	-3.0	27.0	30.0	Complied
5850	-14.5	27.0	41.5	Complied
5925.641	-34.4	-27.0	7.4	Complied

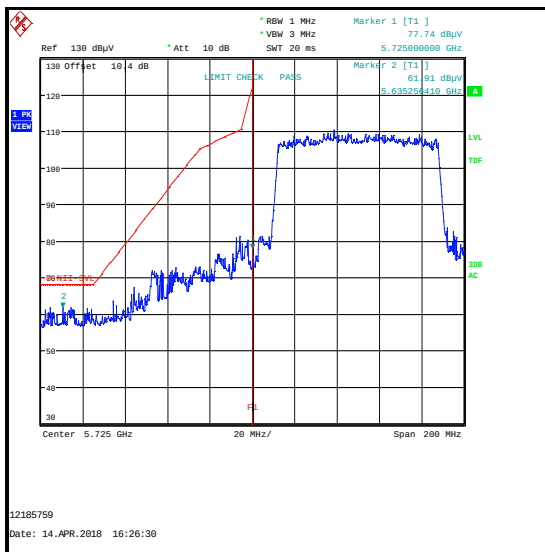
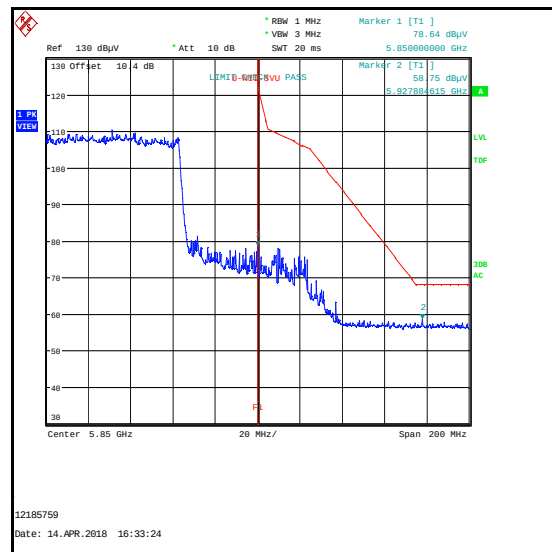
Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5635.256	65.8	68.2	2.4	Complied
5725	92.2	122.2	30.0	Complied
5850	80.7	122.2	41.5	Complied
5925.641	60.8	68.2	7.4	Complied

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

Transmitter Band Edge Radiated Emissions (5.725-5.85 GHz band operation) (continued)**Results: 802.11ac / 80 MHz / MIMO / 3Tx TxBF / BPSK / MCS0 / Peak**

Frequency (MHz)	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
5635.256	-33.3	-27.0	6.3	Complied
5725	-17.5	27.0	44.5	Complied
5850	-16.6	27.0	43.6	Complied
5927.885	-36.4	-27.0	9.4	Complied

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
5635.256	61.9	68.2	6.3	Complied
5725	77.7	122.2	44.5	Complied
5850	78.6	122.2	43.6	Complied
5927.885	58.8	68.2	9.4	Complied

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

Appendix 1

Directional Antenna Gain Calculations – 2Tx CDD / Output Power Measurements

Frequency Band 5150-5250 MHz

For 2Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains. G_{ANT} was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for $N_{ANT}=2$:

$$Directional\ gain = G_{ANT} + Array\ Gain = 6.7\ dBi + 0\ dB = 6.7\ dBi$$

Frequency Band 5250-5350 MHz

For 2Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains. G_{ANT} was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for $N_{ANT}=2$:

$$Directional\ gain = G_{ANT} + Array\ Gain = 7.6\ dBi + 0\ dB = 7.6\ dBi$$

Frequency Band 5470-5725 MHz

For 2Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains. G_{ANT} was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for $N_{ANT}=2$:

$$Directional\ gain = G_{ANT} + Array\ Gain = 7.4\ dBi + 0\ dB = 7.4\ dBi$$

Frequency Band 5725-5850 MHz

For 2Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains. G_{ANT} was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for $N_{ANT}=2$:

$$Directional\ gain = G_{ANT} + Array\ Gain = 6.3\ dBi + 0\ dB = 6.3\ dBi$$

Appendix 1 (continued)**Directional Antenna Gain Calculations – 3Tx CDD / Output Power Measurements****Frequency Band 5150-5250 MHz**

For 3Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains. G_{ANT} was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for $N_{ANT}=3$:

$$Directional\ gain = G_{ANT} + Array\ Gain = 6.7\ dBi + 0\ dB = 6.7\ dBi$$

Frequency Band 5250-5350 MHz

For 3Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains. G_{ANT} was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for $N_{ANT}=3$:

$$Directional\ gain = G_{ANT} + Array\ Gain = 7.6\ dBi + 0\ dB = 7.6\ dBi$$

Frequency Band 5470-5725 MHz

For 3Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains. G_{ANT} was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for $N_{ANT}=3$:

$$Directional\ gain = G_{ANT} + Array\ Gain = 7.4\ dBi + 0\ dB = 7.4\ dBi$$

Frequency Band 5725-5850 MHz

For 3Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) directional antenna gain was calculated using the formula applicable to equal antenna gains. G_{ANT} was set equal to the gain of the antenna having the highest gain. In accordance with KDB 662911 D01 v02r01 Section F)2)f)(i) and for $N_{ANT}=3$:

$$Directional\ gain = G_{ANT} + Array\ Gain = 6.3\ dBi + 0\ dB = 6.3\ dBi$$

Appendix 1 (continued)**Directional Antenna Gain Calculations – 2Tx CDD / PSD Measurements****Frequency Band 5150-5250 MHz**

For 2Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 4.9$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.7$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^2 g_{j,k} \right)^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{4.9}{20}} + 10^{\frac{6.7}{20}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{4.9}{20}} + 10^{\frac{6.7}{20}} \right)^2}{2} \right] = 8.9 \text{ dBi} \end{aligned}$$

Frequency Band 5250-5350 MHz

For 2Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 7.6$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.0$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^2 g_{j,k} \right)^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{7.6}{20}} + 10^{\frac{6.0}{20}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{7.6}{20}} + 10^{\frac{6.0}{20}} \right)^2}{2} \right] = 9.8 \text{ dBi} \end{aligned}$$

Frequency Band 5470-5725 MHz

For 2Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 5.2$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.4$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^2 g_{j,k} \right)^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{5.2}{20}} + 10^{\frac{7.4}{20}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{5.2}{20}} + 10^{\frac{7.4}{20}} \right)^2}{2} \right] = 9.4 \text{ dBi} \end{aligned}$$

Frequency Band 5725-5850 MHz

For 2Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 4.7$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.3$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^2 g_{j,k} \right)^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{4.7}{20}} + 10^{\frac{6.3}{20}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{4.7}{20}} + 10^{\frac{6.3}{20}} \right)^2}{2} \right] = 8.5 \text{ dBi} \end{aligned}$$

Appendix 1 (continued)**Directional Antenna Gain Calculations – 3Tx CDD / PSD Measurements****Frequency Band 5150-5250 MHz**

For 3Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 4.9$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.7$ dBi, $G_{ANTENNA\ 3} = 3.8$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^3 g_{j,k} \right)^2}{3} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2} + g_{1,3})^2}{3} \right] = 10 \log \left[\frac{\left(10^{\frac{4.9}{20}} + 10^{\frac{6.7}{20}} + 10^{\frac{3.8}{20}} \right)^2}{3} \right] = 10.0 \text{ dBi} \end{aligned}$$

Frequency Band 5250-5350 MHz

For 3Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 6.0$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.6$ dBi, $G_{ANTENNA\ 3} = 4.9$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^3 g_{j,k} \right)^2}{3} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2} + g_{1,3})^2}{3} \right] = 10 \log \left[\frac{\left(10^{\frac{6.0}{20}} + 10^{\frac{7.6}{20}} + 10^{\frac{4.9}{20}} \right)^2}{3} \right] = 11.0 \text{ dBi} \end{aligned}$$

Frequency Band 5470-5725 MHz

For 3Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 5.2$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.4$ dBi, $G_{ANTENNA\ 3} = 4.9$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^3 g_{j,k} \right)^2}{3} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2} + g_{1,3})^2}{3} \right] = 10 \log \left[\frac{\left(10^{\frac{5.2}{20}} + 10^{\frac{7.4}{20}} + 10^{\frac{4.9}{20}} \right)^2}{3} \right] = 10.7 \text{ dBi} \end{aligned}$$

Frequency Band 5725-5850 MHz

For 3Tx CDD modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 4.7$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.3$ dBi, $G_{ANTENNA\ 3} = 4.0$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^3 g_{j,k} \right)^2}{3} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2} + g_{1,3})^2}{3} \right] = 10 \log \left[\frac{\left(10^{\frac{4.7}{20}} + 10^{\frac{6.3}{20}} + 10^{\frac{4.0}{20}} \right)^2}{3} \right] = 9.8 \text{ dBi} \end{aligned}$$

Appendix 1 (continued)**Directional Antenna Gain Calculations – 2Tx STBC****Frequency Band 5150-5250 MHz**

For 2Tx STBC modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 4.9$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.7$ dBi:

$$\text{Directional Gain} = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{4.9}{10}} + 10^{\frac{6.7}{10}}}{2} \right] = 5.9 \text{ dBi}$$

Frequency Band 5250-5350 MHz

For 2Tx STBC modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 6.0$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.6$ dBi:

$$\text{Directional Gain} = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{6.0}{10}} + 10^{\frac{7.6}{10}}}{2} \right] = 6.9 \text{ dBi}$$

Frequency Band 5470-5725 MHz

For 2Tx STBC modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 5.2$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.4$ dBi:

$$\text{Directional Gain} = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{5.2}{10}} + 10^{\frac{7.4}{10}}}{2} \right] = 6.4 \text{ dBi}$$

Frequency Band 5725-5850 MHz

For 2Tx STBC modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 4.7$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.3$ dBi:

$$\text{Directional Gain} = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{4.7}{10}} + 10^{\frac{6.3}{10}}}{2} \right] = 5.6 \text{ dBi}$$

Appendix 1 (continued)**Directional Antenna Gain Calculations – 3Tx STBC****Frequency Band 5150-5250 MHz**

For 3Tx STBC modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 4.9$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.7$ dBi, $G_{ANTENNA\ 3} = 3.8$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}}}{N_{ANT}} \right] \\ &= 10 \log \left[\frac{10^{\frac{4.9}{10}} + 10^{\frac{6.7}{10}} + 10^{\frac{3.8}{10}}}{3} \right] = 5.3 \text{ dBi} \end{aligned}$$

Frequency Band 5250-5350 MHz

For 3Tx STBC modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 6.0$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.6$ dBi, $G_{ANTENNA\ 3} = 4.9$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}}}{N_{ANT}} \right] \\ &= 10 \log \left[\frac{10^{\frac{6.0}{10}} + 10^{\frac{7.6}{10}} + 10^{\frac{4.9}{10}}}{3} \right] = 6.3 \text{ dBi} \end{aligned}$$

Frequency Band 5470-5725 MHz

For 3Tx STBC modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 5.2$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.4$ dBi, $G_{ANTENNA\ 3} = 4.9$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}}}{N_{ANT}} \right] \\ &= 10 \log \left[\frac{10^{\frac{5.2}{10}} + 10^{\frac{7.4}{10}} + 10^{\frac{4.9}{10}}}{3} \right] = 6.0 \text{ dBi} \end{aligned}$$

Frequency Band 5725-5850 MHz

For 3Tx STBC modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 4.7$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.3$ dBi, $G_{ANTENNA\ 3} = 4.0$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}}}{N_{ANT}} \right] = 10 \log \left[\frac{10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}}}{N_{ANT}} \right] \\ &= 10 \log \left[\frac{10^{\frac{4.7}{10}} + 10^{\frac{6.3}{10}} + 10^{\frac{4.0}{10}}}{3} \right] = 5.1 \text{ dBi} \end{aligned}$$

Appendix 1 (continued)**Directional Antenna Gain Calculations – 2Tx TxBF****Frequency Band 5150-5250 MHz**

For 2Tx TxBF modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 4.9$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.7$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{4.9}{10}} + 10^{\frac{6.7}{10}} \right)^2}{2} \right] \\ &= 8.9 \text{ dBi} \end{aligned}$$

Frequency Band 5250-5350 MHz

For 2Tx TxBF modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 6.0$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.6$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{6.0}{10}} + 10^{\frac{7.6}{10}} \right)^2}{2} \right] \\ &= 9.8 \text{ dBi} \end{aligned}$$

Frequency Band 5470-5725 MHz

For 2Tx TxBF modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 5.2$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.4$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{5.2}{10}} + 10^{\frac{7.4}{10}} \right)^2}{2} \right] \\ &= 9.4 \text{ dBi} \end{aligned}$$

Frequency Band 5725-5850 MHz

For 2Tx TxBF modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i) and for $N_{SS}=1$, $N_{ANT}=2$, $G_1 = G_{ANTENNA\ 1} = 4.7$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.3$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} \right)^2}{2} \right] = 10 \log \left[\frac{\left(10^{\frac{4.7}{10}} + 10^{\frac{6.3}{10}} \right)^2}{2} \right] \\ &= 8.5 \text{ dBi} \end{aligned}$$

Appendix 1 (continued)**Directional Antenna Gain Calculations – 3Tx TxBF****Frequency Band 5150-5250 MHz**

For 3Tx TxBF modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 4.9$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.7$ dBi, $G_{ANTENNA\ 3} = 3.8$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}} \right)^2}{3} \right] = \\ &= 10 \log \left[\frac{\left(10^{\frac{4.9}{10}} + 10^{\frac{6.7}{10}} + 10^{\frac{3.8}{10}} \right)^2}{3} \right] = 10.0 \text{ dBi} \end{aligned}$$

Frequency Band 5250-5350 MHz

For 3Tx TxBF modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 6.0$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.6$ dBi, $G_{ANTENNA\ 3} = 4.9$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}} \right)^2}{3} \right] = \\ &= 10 \log \left[\frac{\left(10^{\frac{6.0}{10}} + 10^{\frac{7.6}{10}} + 10^{\frac{4.9}{10}} \right)^2}{3} \right] = 11.0 \text{ dBi} \end{aligned}$$

Frequency Band 5470-5725 MHz

For 3Tx TxBF modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 5.2$ dBi, $G_2 = G_{ANTENNA\ 2} = 7.4$ dBi, $G_{ANTENNA\ 3} = 4.9$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}} \right)^2}{3} \right] = \\ &= 10 \log \left[\frac{\left(10^{\frac{5.2}{10}} + 10^{\frac{7.4}{10}} + 10^{\frac{4.9}{10}} \right)^2}{3} \right] = 10.7 \text{ dBi} \end{aligned}$$

Frequency Band 5725-5850 MHz

For 3Tx TxBF modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i) and for $N_{SS}=1$, $N_{ANT}=3$, $G_1 = G_{ANTENNA\ 1} = 4.7$ dBi, $G_2 = G_{ANTENNA\ 2} = 6.3$ dBi, $G_{ANTENNA\ 3} = 4.0$ dBi:

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_N}{10}} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + 10^{\frac{G_3}{10}} \right)^2}{3} \right] = \\ &= 10 \log \left[\frac{\left(10^{\frac{4.7}{10}} + 10^{\frac{6.3}{10}} + 10^{\frac{4.0}{10}} \right)^2}{3} \right] = 9.8 \text{ dBi} \end{aligned}$$

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