FCC Section 15.407(h)(1) / RSS-247 6.2.2.1 Transmitter Power Control

SPECIFICATION

FCC 15.407/RSS247: Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW (27dBm).

RESULTS:

The maximum conducted output power was measured using the channel power integration method according to point E) 2) b) (Method SA-1) of 789033 D02 General UNII Test Procedures New Rules v02r01 when the duty cycle is >98% and the channel power integration method according to point E) 2) d) (Method SA-2) of 789033 D02 General UNII Test Procedures New Rules v02r01 when the duty cycle is <98%.

For data rates where the EUT was transmitting at <98% duty cycle, the duty calculated in Appendix A was added to the measured power in order to calculate the total average power during the actual transmission time.

In the measure-and-sum approach for MIMO mode, the conducted emission level (*e.g.*, transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units (mW—not dBm).

The e.i.r.p. levels are calculated by adding the antenna gain (dBi).

FCC and Canada power setting

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 2 (TPC activate)

Directional Antenna Gain: 6.71 dBi

	channel 54 5270 MHz	
	CORE 0	CORE 2
Max. conducted power (dBm)	13.03	12.77
Duty Cycle Correction Factor (dB)	0.13	0.13
Max. conducted power corrected (dBm)	13.26	12.90
Combined Conducted Power (dBm)	16.09	
Maximum EIRP power (dBm)	22.80	
EIRP power Limit (dBm)	24	
Margin (dB)	1.20	
Measurement uncertainty (dB)	<±1.20	

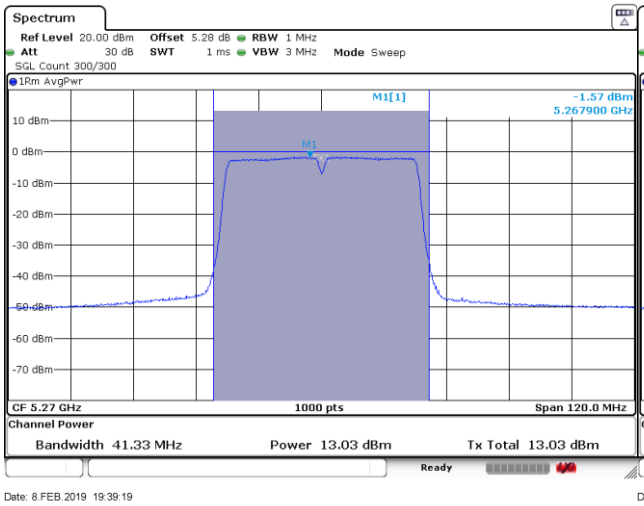
Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2 (TPC activate)

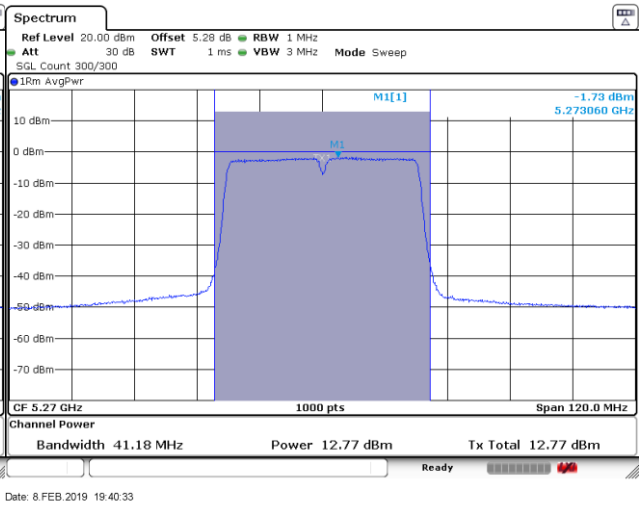
Directional Antenna Gain: 8.10 dBi

	channel 54 5270 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	9.86	9.83	9.78
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13
Max. conducted power corrected (dBm)	9.99	9.96	9.91
Combined Conducted Power (dBm)	14.74		
Maximum EIRP power (dBm)	21.96		
EIRP power Limit (dBm)	24		
Margin (dB)	2.04		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 2 (TPC activate)

Channel 54

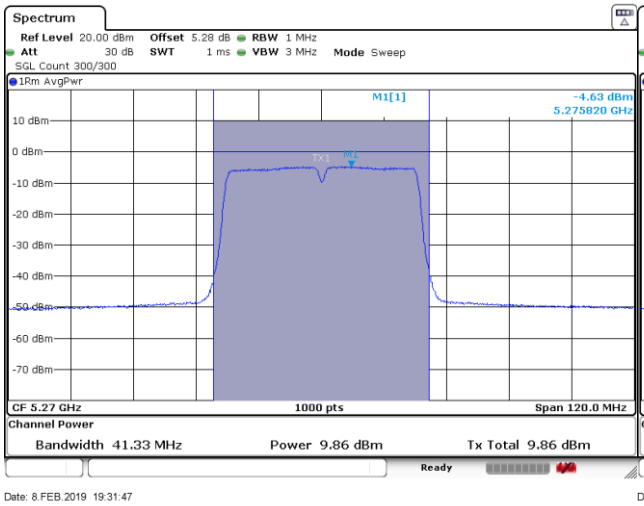


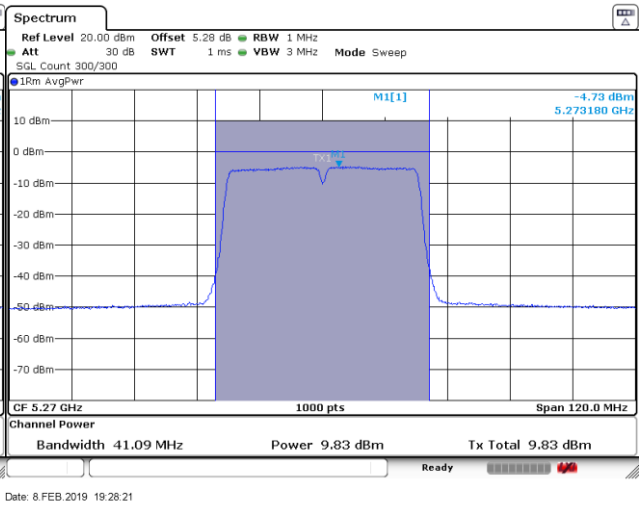


CORE 0 CORE 2

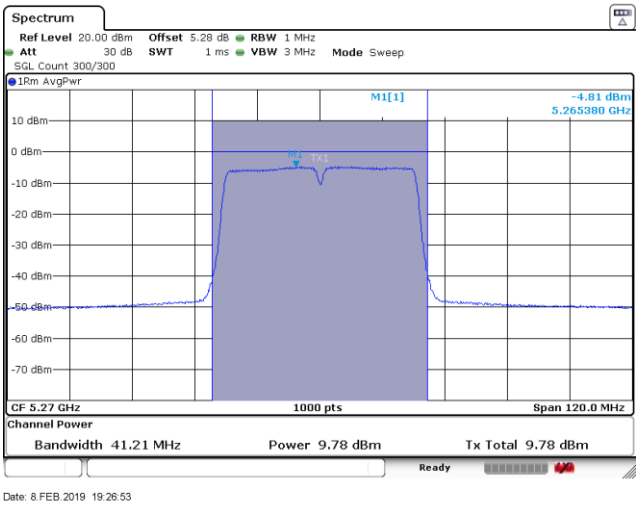
Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2 (TPC activate)

Channel 54





CORE 0 CORE 1


Spectrum
Ref Level 20.00 dBm Offset 5.28 dB RBW 1 MHz
Att 30 dB SWT 1 ms VBW 3 MHz Mode Sweep
SGL Count 300/300
1Rm AvgPwr
M1[1]
-4.81 dBm
5.265380 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 5.27 GHz
1000 pts
Span 120.0 MHz
Channel Power
Bandwidth 41.21 MHz
Power 9.78 dBm
Tx Total 9.78 dBm
Ready
Date: 8.FEB.2019 19:26:53

CORE 2

Appendix D: Test result for 5.47GHz – 5.725GHz.

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TEST CONDITIONS

Power supply (V):

Vnominal = 120 Vac

Type of power supply = AC voltage main supply.

Type of antenna = Internal antenna.

Declared Gain for antenna (maximum) at each port/core:

G_{CORE0} = 3.17 dBi

G_{CORE1} = 1.88 dBi

G_{CORE2} = 4.56 dBi

Directional Antenna Gain Calculations for 2Tx CDD MIMO / Output Power Measurements:

- For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii), directional gain was calculated as:

  N_{ANT} = 2, G_{ANT} was set equal to the gain of the antenna having the highest gain.

  Directional gain = G_{ANT} + Array Gain= 4.56 dBi + 0 dB = 4.56 dBi.

Directional Antenna Gain Calculations for 3Tx CDD MIMO / Output Power Measurements:

- For 3Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii), directional gain was calculated as:

  N_{ANT} = 3, G_{ANT} was set equal to the gain of the antenna having the highest gain.

  Directional gain = G_{ANT} + Array Gain= 4.56 dBi + 0 dB = 4.56 dBi.

Directional Antenna Gain Calculations for 2Tx CDD MIMO / PSD Measurements:

- For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii), directional gain was calculated as:

  Nss= 1, N_{ANT} = 2, G_{CORE0} = 3.17 dBi, G_{CORE2} = 4.56 dBi

  .

$$\text{Directional Gain} = 10\log\left[\frac{\sum_{j=1}^{N_{SS}}\left(\sum_{k=1}^{N_{ANT}} g_{j,k}\right)^2}{N_{ANT}}\right] = 10\log\left[\frac{\sum_{j=1}^{1}\left(\sum_{k=1}^{3} g_{j,k}\right)^2}{2}\right]$$

$$= 10\log\left[\frac{(g_{1,1}+g_{1,2})^2}{2}\right] = 10\log\left[\frac{\left(10^{\frac{G_1}{20}}+10^{\frac{G_2}{20}}\right)^2}{2}\right] = 10\log\left[\frac{\left(10^{\frac{3.17}{20}}+10^{\frac{4.56}{20}}\right)^2}{2}\right] = \mathbf{6.90}\ \text{dBi}$$

Directional Antenna Gain Calculations for 3Tx CDD MIMO / PSD Measurements:

- For 3Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii), directional gain was calculated as:

  Nss= 1, N_{ANT} = 3, G_{CORE0} = 3.17 dBi, G_{CORE1} = 1.88 dBi, G_{CORE2} = 4.56 dBi

  .

$$\text{Directional Gain} = 10\log\left[\frac{\sum_{j=1}^{N_{SS}}\left(\sum_{k=1}^{N_{ANT}} g_{j,k}\right)^2}{N_{ANT}}\right] = 10\log\left[\frac{\sum_{j=1}^{1}\left(\sum_{k=1}^{3} g_{j,k}\right)^2}{3}\right]$$

$$= 10\log\left[\frac{\left(g_{1,1}+g_{1,2}+g_{1,3}\right)^2}{3}\right] = 10\log\left[\frac{\left(10^{\frac{G_1}{20}}+10^{\frac{G_2}{20}}+10^{\frac{G_3}{20}}\right)^2}{3}\right] = 10\log\left[\frac{\left(10^{\frac{3.17}{20}}+10^{\frac{1.88}{20}}+10^{\frac{4.56}{20}}\right)^2}{3}\right] = 8.04 \text{ dBi}$$

Directional Antenna Gain Calculations for 2Tx SDM MIMO Measurements:

- For 2Tx SDM MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii), directional gain was calculated as:
  Nss= 1, N_{ANT} = 2, G_{CORE0} = 3.17 dBi, G_{CORE2} = 4.56 dBi

  .

$$\text{Directional Gain} = 10\log\left[\frac{10^{\frac{G_1}{10}}+10^{\frac{G_2}{10}}+\cdots+10^{\frac{G_N}{10}}}{N_{ANT}}\right] = 10\log\left[\frac{10^{\frac{G_1}{10}}+10^{\frac{G_2}{10}}}{N_{ANT}}\right] = 10\log\left[\frac{10^{\frac{3.17}{10}}+10^{\frac{4.56}{10}}}{2}\right] = 3.92 \text{ dBi}$$

Directional Antenna Gain Calculations for 3Tx SDM MIMO Measurements:

- For 3Tx SDM MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(ii), directional gain was calculated as:

  Nss= 1, N_{ANT} = 3, G_{CORE0} = 3.17 dBi, G_{CORE1} = 1.88 dBi, G_{CORE2} = 4.56 dBi

$$\text{Directional Gain} = 10\log\left[\frac{10^{\frac{G_1}{10}}+10^{\frac{G_2}{10}}+\cdots+10^{\frac{G_N}{10}}}{N_{ANT}}\right] = 10\log\left[\frac{10^{\frac{G_1}{10}}+10^{\frac{G_2}{10}}+10^{\frac{G_3}{10}}}{N_{ANT}}\right]$$

$$= 10\log\left[\frac{10^{\frac{3.17}{10}}+10^{\frac{1.88}{10}}+10^{\frac{4.56}{10}}}{3}\right] = 3.34 \text{ dBi}$$

Directional Antenna Gain Calculations for TxBF MIMO Measurements:

- For 2Tx TxBF MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i), directional gain was calculated as:

  N_{ANT} = 2, G_{CORE0} = 3.17 dBi, G_{CORE2} = 4.56 dBi

  .

$$\text{Directional Gain} = 10\log\left[\frac{\sum_{j=1}^{N_{SS}}\left(\sum_{k=1}^{N_{ANT}} g_{j,k}\right)^2}{N_{ANT}}\right] = 10\log\left[\frac{\sum_{j=1}^{1}\left(\sum_{k=1}^{3} g_{j,k}\right)^2}{2}\right]$$

$$= 10\log\left[\frac{(g_{1,1}+g_{1,2})^2}{2}\right] = 10\log\left[\frac{\left(10^{\frac{G_1}{20}}+10^{\frac{G_2}{20}}\right)^2}{2}\right] = 10\log\left[\frac{\left(10^{\frac{3.17}{20}}+10^{\frac{4.56}{20}}\right)^2}{2}\right] = \mathbf{6.90}\ \text{dBi}$$

For 3Tx TxBF MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)d)(i), directional gain was calculated as:

N_{ANT} = 3, G_{CORE0} = 3.17 dBi, G_{CORE1} = 1.88 dBi, G_{CORE2} = 4.56 dBi

.

$$\text{Directional Gain} = 10\log\left[\frac{\sum_{j=1}^{N_{SS}}\left(\sum_{k=1}^{N_{ANT}} g_{j,k}\right)^2}{N_{ANT}}\right] = 10\log\left[\frac{\sum_{j=1}^{1}\left(\sum_{k=1}^{3} g_{j,k}\right)^2}{3}\right]$$

$$= 10\log\left[\frac{(g_{1,1}+g_{1,2}+g_{1,3})^2}{3}\right] = 10\log\left[\frac{\left(10^{\frac{G_1}{20}}+10^{\frac{G_2}{20}}+10^{\frac{G_2}{20}}\right)^2}{3}\right] = 10\log\left[\frac{\left(10^{\frac{3.17}{20}}+10^{\frac{1.88}{20}}+10^{\frac{4.56}{20}}\right)^2}{3}\right] = 8.04\ \text{dBi}$$

Technology Tested:	WLAN (IEEE 802.11 a,n,ac) / U-NII	
Modes:	802.11a: 6, 9, 12, 18, 24, 36, 48 & 54 Mbps (SISO, or MIMO with CDD)	
	802.11n HT20: MCS0 to MCS23 (1,2 or 3 spatial stream with either SISO or 2/3 chain MIMO CDD/SDM)	
	802.11n HT40: MCS0 to MCS23 (1,2 or 3 spatial stream with either SISO or 2/3 chain MIMO CDD/SDM)	
	802.11ac VHT20: MCS0 to MCS9 (1,2 or 3 spatial stream) (SISO, or MIMO with CDD/SDM with or without TxBF)	
	802.11ac VHT40: MCS0 to MCS9 (1,2 or 3 spatial stream) (SISO, or MIMO with CDD/SDM with or without TxBF)	
	802.11ac VHT80: MCS0 to MCS9 (1,2 or 3 spatial stream) (SISO, or MIMO with CDD/SDM with or without TxBF)	
Setting of cores / ports:	0,1,2, 0+1, 0+2, 1+2, 0+1+2	
Beamforming:	Yes	
Frequency Range:	5470 MHz to 5725 MHz	
Channel Spacing:	20 MHz	
Transmit Channels	Channel	Channel Frequency (MHz)
	Lowest: 100	5500
	Middle: 116	5580
	Highest: 140	5700
Channels that straddle the UNII-2C and UNII-3 bands at 5725MHz.	Single:144	5720
Channel Spacing:	40 MHz	
Transmit Channels	Channel	Channel Frequency (MHz)
	Lowest: 102	5510
	Middle: 110 (Canada), 118 (FCC only)	5590
	Highest: 134	5670
Channels that straddle the UNII-2C and UNII-3 bands at 5725MHz.	Single:142	5710
Channel Spacing:	80 MHz	
Transmit Channels	Lowest: 106	5530
	Highest: 122 (FCC only)	5610
Channels that straddle the UNII-2C and UNII-3 bands at 5725MHz.	Single:138	5690

For RSS-247 (Canada Standard), this device shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada's weather radars operating in this band.

The test set-up was made in accordance to the general provisions of FCC Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017.

The EUT was tested in the following operating mode(s):

- Non-TxBF modes: Continuously transmitting with a modulated carrier at maximum power in all required channels using the supported data rates/modulations types.
- TxBF modes: Transmitting a modulated carrier with maximum possible duty cycle at maximum power in all required channels using the supported data rates/modulations types.

The field strength at the band edges was evaluated for each mode for the channel under test.

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

For non-TxBF modes, the EUT was configured in test mode using a software application. The application was used to enable a continuous transmission and to select the test channels as required. The client supplied scripts to configure the EUT. The customer supplied a document containing the setup instructions.

For TxBF modes, the EUT was communicating via a RF link (radiated or conducted) with an equivalent device. The EUT ran iPerf bandwidth testing application in client mode to produce maximum throughput. The client supplied scripts to configure the EUT. The customer supplied a document containing the setup instructions.

The customer declared the worst case SISO and MIMO modes for testing which were:

- 802.11a: 6 Mbit/s / SISO on Core 2
- 802.11n HT20: MCS0 / SISO on Core 2
- 802.11n HT40: MCS0 / SISO on Core 2
- 802.11ac VHT80: MCS0x1 / SISO on Core 2
- 802.11n HT20: MCS0 / MIMO / 2Tx CDD on Core 0 & Core 2
- 802.11n HT40: MCS0 / MIMO / 2Tx CDD on Core 0 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 2Tx CDD on Core 0 & Core 2
- 802.11n HT20: MCS8 / MIMO / 2Tx SDM on Core 0 & Core 2
- 802.11n HT40: MCS8 / MIMO / 2Tx SDM on Core 0 & Core 2
- 802.11ac VHT80: MCS0x2 / MIMO / 2Tx SDM on Core 0 & Core 2
- 802.11ac VHT20: MCS0x1 / MIMO / 2Tx TxBF on Core 0 & Core 2
- 802.11ac VHT40: MCS0x1 / MIMO / 2Tx TxBF on Core 0 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 2Tx TxBF on Core 0 & Core 2
- 802.11n HT20: MCS0 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2
- 802.11n HT40: MCS0 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 3Tx CDD on Core 0 & Core 1 & Core 2

- 802.11n HT20: MCS16 / MIMO / 3Tx SDM on Core 0 &Core 1 & Core 2
- 802.11n HT40: MCS16 / MIMO / 3Tx SDM on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x3 / MIMO / 3Tx SDM on Core 0 & Core 1 & Core 2
- 802.11ac VHT20: MCS0x1 / MIMO / 3Tx TxBF on Core 0 & Core 1 & Core 2
- 802.11ac VHT40: MCS0x1 / MIMO / 3Tx TxBF on Core 0 & Core 1 & Core 2
- 802.11ac VHT80: MCS0x1 / MIMO / 3Tx TxBF on Core 0 & Core 1 & Core 2

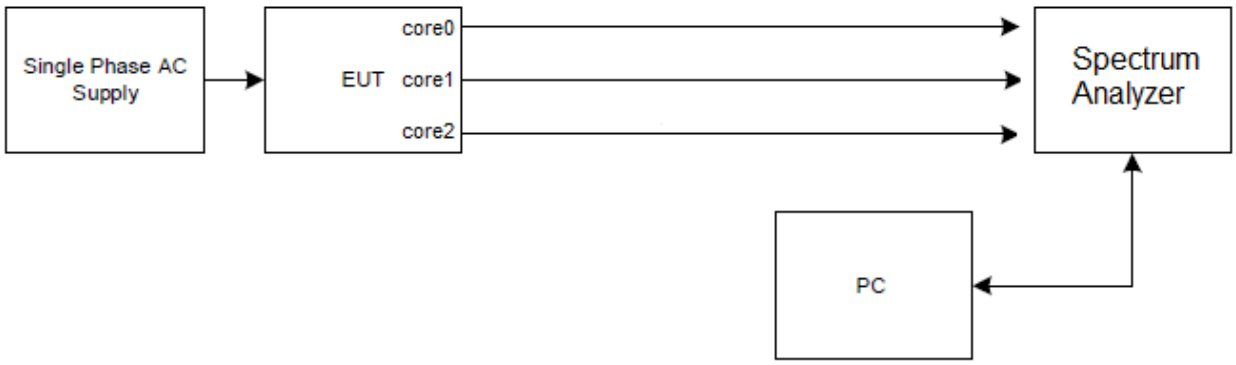
The EUT has three separate antennas which correspond to three separate antenna ports. Core 0 and Core 1 and Core 2 correspond to antenna 0, antenna 1 and antenna 2 respectively.

The client supplied U.FL RF cables with the EUT in order to perform conducted measurements. The measured additional path loss was included in any path loss calculations.

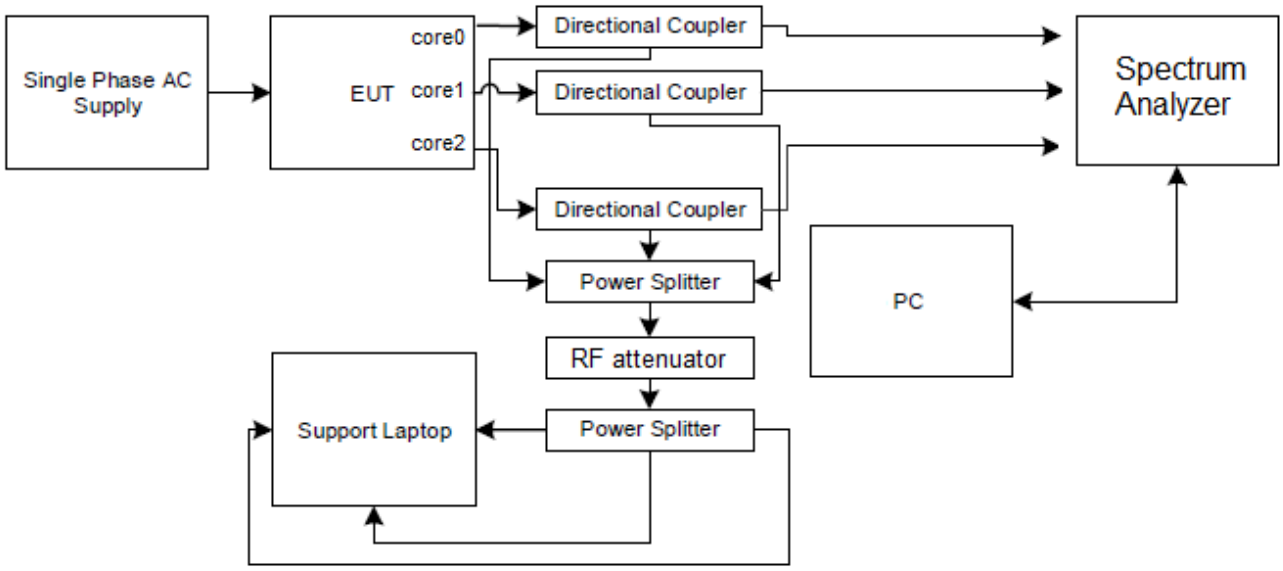
CONDUCTED MEASUREMENTS

The equipment under test was set up in a shielded room and connected to the spectrum analyzer using a low loss RF cable. The reading in the spectrum analyzer is corrected taking into account the internal and external RF cable loss.

For non-TxBF modes:



For TxBF modes:



The AC supply voltage is applied using an external power supply.

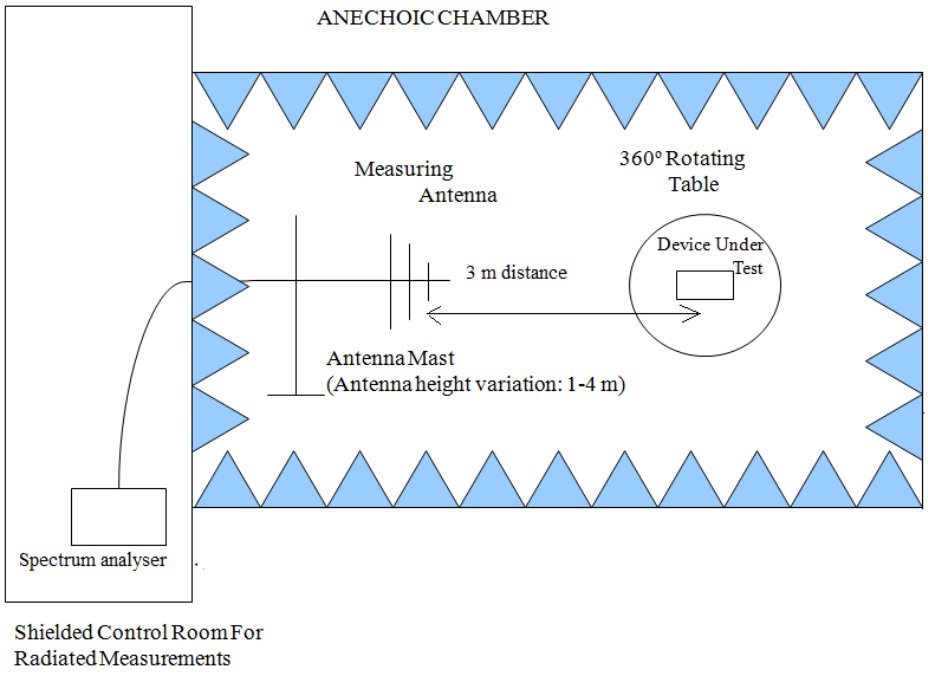
RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m. The EUT was placed at a height of 80 cm above the reference ground plane in the center of the chamber turntable to perform the measurements below 1GHz and The EUT was placed at a height of 1.5 meters above the test chamber floor in the center of the chamber turntable to perform the measurements above 1GHz. It was also rotated 360º and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

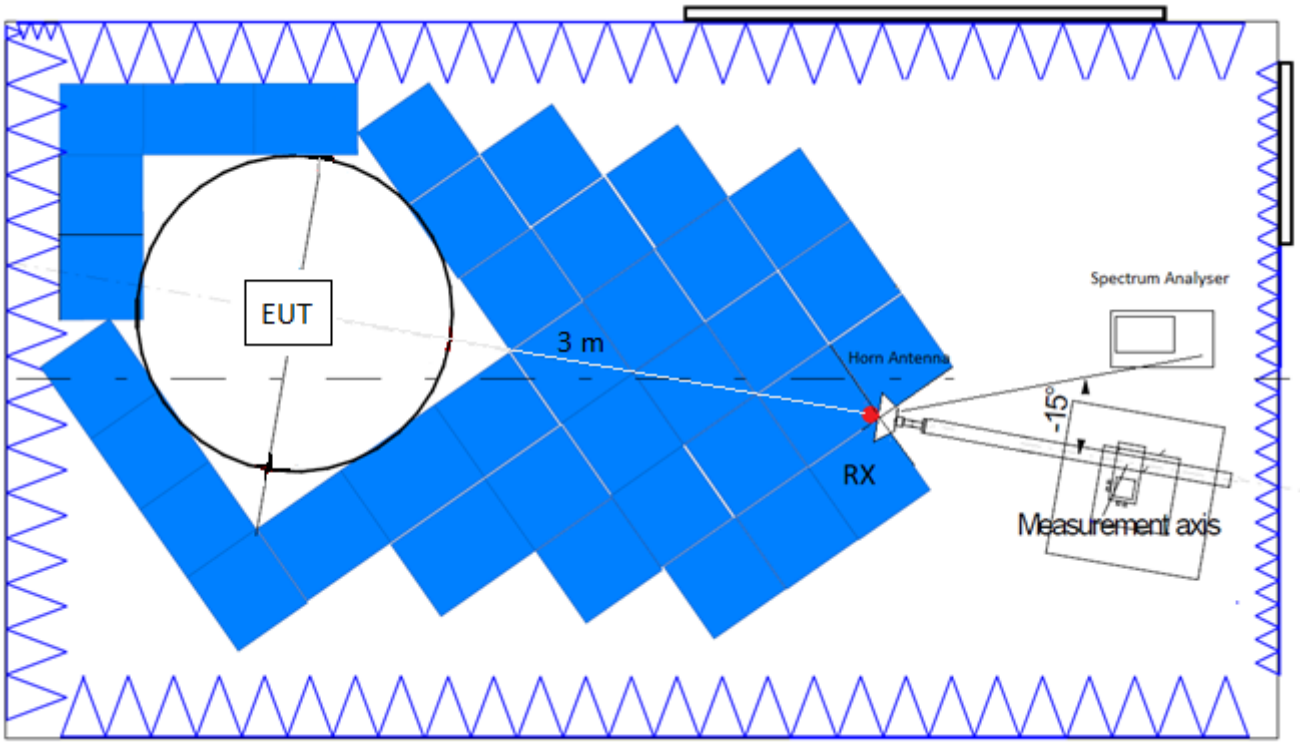
Measurements were made in both horizontal and vertical planes of polarization.

The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor and cable loss.

Radiated measurements setup f < 1 GHz



Radiated measurements setup f > 1 GHz



FCC Section 15.407 Subclause (a)(2). Transmitter Maximum Conducted Output Power / RSS-247 Clause 6.2.3.1. Transmitter Maximum Equivalent Isotropically Radiated Power

SPECIFICATION

FCC 15.407: For the 5.47-5.725 GHz band, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24 dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247: The maximum conducted output power shall not exceed 250 mW (24 dBm) or 11 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

RESULTS:

The maximum conducted output power was measured using the channel power integration method according to point E) 2) b) (Method SA-1) of 789033 D02 General UNII Test Procedures New Rules v02r01 when the duty cycle is >98% and the channel power integration method according to point E) 2) d) (Method SA-2) of 789033 D02 General UNII Test Procedures New Rules v02r01 when the duty cycle is <98%.

For data rates where the EUT was transmitting at <98% duty cycle, the duty calculated in Appendix A was added to the measured power in order to calculate the total average power during the actual transmission time.

For all SISO and MIMO CDD/SDM modes of operation, the antenna gain is less than 6dBi.

For 2TX TxBF modes of operation presented in this section of the test report, the directional antenna gain of 6.90 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 24dBm has been reduced by 0.90 to 23.10 dBm.

For 3TX TxBF modes of operation presented in this section of the test report, the directional antenna gain of 8.04 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 24dBm has been reduced by 2.04 to 21.96 dBm.

In the measure-and-sum approach for MIMO mode, the conducted emission level (*e.g.,* transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units (mW—not dBm).

The e.i.r.p. levels are calculated by adding the corresponding antenna gain (dBi).

Straddling channels in the U-NII-2C and U-NII-3 at 5725 MHz (144, 162 and 138) shall meet the requirements of both bands. Compliance is shown against the more stringent limit in band U-NII-2C and therefore is also compliant with the requirements for band U-NII-3.

FCC and Canada power setting

Mode : 802.11a - 20MHz – SISO – CORE 2

Declared antenna gain: 4.56 dBi

	channel 100 5500 MHz	Channel116 5580 MHz	channel 140 5700 MHz
Max. conducted power (dBm)	14.46	20.42	14.43
Conducted Power Limit (dBm)	24		
Margin (dB)	9.54	3.58	9.57
Maximum EIRP power (dBm)	19.02	24.92	18.99
EIRP power Limit (dBm)	30		
Margin (dB)	10.98	5.02	11.01
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT20 - 20MHz – SISO – CORE 2

Declared antenna gain: 4.56 dBi

	channel 100 5500 MHz	Channel116 5580 MHz	channel 140 5700 MHz
Max. conducted power (dBm)	14.45	20.45	14.40
Conducted Power Limit (dBm)	24		
Margin (dB)	9.55	3.55	9.60
Maximum EIRP power (dBm)	19.01	25.01	18.96
EIRP power Limit (dBm)	30		
Margin (dB)	10.99	4.99	11.04
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 - 40MHz – SISO – CORE 2

Declared antenna gain: 4.56 dBi

	channel 102 5510 MHz	channel 110 5550 MHz	channel 118 5590 MHz
Max. conducted power (dBm)	11.95	21.43	21.98
Duty Cycle Correction Factor (dB)	0.10	0.10	0.10
Max. conducted power corrected (dBm)	12.05	21.53	22.08
Conducted Power Limit (dBm)	24		
Margin (dB)	11.95	2.47	1.92
Maximum EIRP power (dBm)	16.61	25.68	26.64
EIRP power Limit (dBm)	30		
Margin (dB)	13.39	10.32	3.36
Measurement uncertainty (dB)	<±1.20		

	channel 134 5670 MHz
Max. conducted power (dBm)	15.06
Duty Cycle Correction Factor (dB)	0.10
Max. conducted power corrected (dBm)	15.16
Conducted Power Limit (dBm)	24
Margin (dB)	8.84
Maximum EIRP power (dBm)	19.72
EIRP power Limit (dBm)	30
Margin (dB)	10.28
Measurement uncertainty (dB)	<±1.20

Mode : 802.11ac VHT80 - 80MHz – SISO – CORE 2

Declared antenna gain: 4.56 dBi

	channel 106 5530 MHz	channel 122 5530 MHz
Max. conducted power (dBm)	10.49	17.86
Duty Cycle Correction Factor (dB)	0.15	0.15
Max. conducted power corrected (dBm)	10.64	18.01
Conducted Power Limit (dBm)	24	
Margin (dB)	13.36	5.99
Maximum EIRP power (dBm)	15.20	22.57
EIRP power Limit (dBm)	30	
Margin (dB)	14.80	7.43
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 4.56 dBi

	channel 100 5500 MHz		Channel116 5580 MHz		channel 140 5700 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	14.49	14.46	16.82	16.96	13.27	13.48
Combined Conducted Power (dBm)	17.49		19.90		16.39	
Conducted Power Limit (dBm)	24					
Margin (dB)	6.51		4.10		7.61	
Maximum EIRP power (dBm)	22.05		24.46		20.95	
EIRP power Limit (dBm)	30					
Margin (dB)	7.95		5.54		9.05	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 4.56 dBi

	channel 102 5510 MHz		channel 110 5550 MHz		channel 118 5590 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	11.81	11.98	19.41	19.38	19.33	19.17
Duty Cycle Correction Factor (dB)	0.09	0.09	0.09	0.09	0.09	0.09
Max. conducted power corrected (dBm)	11.90	12.07	19.50	19.47	19.42	19.26
Combined Conducted Power (dBm)	15		22.49		18.28	
Conducted Power Limit (dBm)	24					
Margin (dB)	9		1.51		1.65	
Maximum EIRP power (dBm)	19.56		27.05		26.91	
EIRP power Limit (dBm)	30					
Margin (dB)	10.44		2.95		3.09	
Measurement uncertainty (dB)	<±1.20					

	channel 134 5670 MHz	
	CORE 0	CORE 2
Max. conducted power (dBm)	15.21	15.15
Duty Cycle Correction Factor (dB)	0.09	0.09
Max. conducted power corrected (dBm)	15.30	15.24
Combined Conducted Power (dBm)	18.28	
Conducted Power Limit (dBm)	24	
Margin (dB)	5.72	
Maximum EIRP power (dBm)	22.84	
EIRP power Limit (dBm)	30	
Margin (dB)	7.16	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 4.56 dBi

	channel 106 5530 MHz		channel 122 5530 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	10.61	10.84	16.68	16.92
Duty Cycle Correction Factor (dB)	0.16	0.16	0.16	0.16
Max. conducted power corrected (dBm)	10.77	11	16.84	17.08
Combined Conducted Power (dBm)	13.90		19.97	
Conducted Power Limit (dBm)	24			
Margin (dB)	10.10		4.03	
Maximum EIRP power (dBm)	18.46		24.53	
EIRP power Limit (dBm)	30			
Margin (dB)	11.54		5.47	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.92 dBi

	channel 100 5500 MHz		Channel116 5580 MHz		channel 140 5700 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	13.83	13.77	17.73	17.89	13.81	13.81
Combined Conducted Power (dBm)	16.81		20.82		16.82	
Conducted Power Limit (dBm)	24					
Margin (dB)	7.19		3.18		7.18	
Maximum EIRP power (dBm)	20.73		24.74		20.74	
EIRP power Limit (dBm)	30					
Margin (dB)	9.27		5.26		9.26	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.92 dBi

	channel 102 5510 MHz		channel 110 5550 MHz		channel 118 5590 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	11.95	11.69	19.73	19.69	19.56	19.92
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14	0.14	0.14	0.14
Max. conducted power corrected (dBm)	12.09	11.83	19.87	19.83	19.70	20.06
Combined Conducted Power (dBm)	14.98		22.86		22.90	
Conducted Power Limit (dBm)	24					
Margin (dB)	9.02		1.14		1.10	
Maximum EIRP power (dBm)	18.90		26.74		26.82	
EIRP power Limit (dBm)	30					
Margin (dB)	11.10		3.26		3.18	
Measurement uncertainty (dB)	<±1.20					

	channel 134 5670 MHz	
	CORE 0	CORE 2
Max. conducted power (dBm)	14.37	14.11
Duty Cycle Correction Factor (dB)	0.14	0.14
Max. conducted power corrected (dBm)	14.51	14.25
Combined Conducted Power (dBm)	17.40	
Conducted Power Limit (dBm)	24	
Margin (dB)	6.60	
Maximum EIRP power (dBm)	21.32	
EIRP power Limit (dBm)	30	
Margin (dB)	8.68	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 3.92 dBi

	channel 106 5530 MHz		channel 122 5530 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	10.56	10.65	16.75	16.72
Duty Cycle Correction Factor (dB)	0.29	0.29	0.29	0.29
Max. conducted power corrected (dBm)	10.85	10.94	17.04	17.01
Combined Conducted Power (dBm)	13.91		20.04	
Conducted Power Limit (dBm)	24			
Margin (dB)	10.09		3.96	
Maximum EIRP power (dBm)	17.83		23.96	
EIRP power Limit (dBm)	30			
Margin (dB)	12.17		6.04	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 6.90 dBi

	channel 100 5500 MHz		Channel116 5580 MHz		channel 140 5700 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	14.4	13.91	16.82	16.59	12.63	12.57
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11	0.11	0.11
Max. conducted power corrected (dBm)	14.51	14.02	16.93	16.70	12.74	12.68
Combined Conducted Power (dBm)	17.28		16.83		15.72	
Conducted Power Limit (dBm)	23.10					
Margin (dB)	5.82		3.27		7.38	
Maximum EIRP power (dBm)	24.19		26.73		22.62	
EIRP power Limit (dBm)	30					
Margin (dB)	5.81		3.27		7.38	
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 6.90 dBi

	channel 102 5510 MHz		channel 110 5550 MHz		channel 118 5590 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	10.68	10.70	18.68	18.62	18.76	18.59
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13	0.13	0.13	0.13
Max. conducted power corrected (dBm)	10.81	10.83	18.81	18.75	18.89	18.72
Combined Conducted Power (dBm)	13.83		21.79		17.01	
Conducted Power Limit (dBm)	23.10					
Margin (dB)	9.27		1.52		1.29	
Maximum EIRP power (dBm)	20.73		28.69		28.72	
EIRP power Limit (dBm)	30					
Margin (dB)	9.27		1.31		1.28	
Measurement uncertainty (dB)	<±1.20					

	channel 134 5670 MHz	
	CORE 0	CORE 2
Max. conducted power (dBm)	13.87	13.87
Duty Cycle Correction Factor (dB)	0.13	0.13
Max. conducted power corrected (dBm)	14	14
Combined Conducted Power (dBm)	17.01	
Conducted Power Limit (dBm)	23.10	
Margin (dB)	6.09	
Maximum EIRP power (dBm)	17.01	
EIRP power Limit (dBm)	30	
Margin (dB)	12.99	
Measurement uncertainty (dB)	<±1.20	

Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 0 & CORE 2

Directional Antenna Gain: 6.90 dBi

	channel 106 5530 MHz		channel 122 5530 MHz	
	CORE 0	CORE 2	CORE 0	CORE 2
Max. conducted power (dBm)	9.20	9.38	14.67	14.78
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11
Max. conducted power corrected (dBm)	9.31	9.49	14.78	14.89
Combined Conducted Power (dBm)	12.41		17.85	
Conducted Power Limit (dBm)	23.10			
Margin (dB)	10.68		5.25	
Maximum EIRP power (dBm)	19.32		24.75	
EIRP power Limit (dBm)	29.10			
Margin (dB)	9.78		4.35	
Measurement uncertainty (dB)	<±1.20			

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 4.56 dBi

	channel 100 5500 MHz			Channel116 5580 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	13.88	13.74	13.89	13.91	13.89	13.61
Combined Conducted Power (dBm)	18.61			18.58		
Conducted Power Limit (dBm)	24					
Margin (dB)	5.39			5.42		
Maximum EIRP power (dBm)	23.17			23.14		
EIRP power Limit (dBm)	30					
Margin (dB)	6.83			6.86		
Measurement uncertainty (dB)	<±1.20					

	channel 140 5700 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	13.45	13.38	13.16
Combined Conducted Power (dBm)	18.10		
Conducted Power Limit (dBm)	24		
Margin (dB)	5.90		
Maximum EIRP power (dBm)	22.66		
EIRP power Limit (dBm)	30		
Margin (dB)	7.34		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 4.56 dBi

	channel 102 5510 MHz			channel 110 5550 MHz			channel 118 5590 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	10.97	10.99	10.98	16.93	16.99	16.90	16.96	16.99	16.97
Combined Conducted Power (dBm)	15.75			21.71			21.74		
Conducted Power Limit (dBm)	24								
Margin (dB)	8.25			2.29			2.26		
Maximum EIRP power (dBm)	20.31			26.27			26.30		
EIRP power Limit (dBm)	30								
Margin (dB)	9.69			3.73			3.70		
Measurement uncertainty (dB)	<±1.20								

	channel 134 5670 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	15.50	15.50	15.46
Combined Conducted Power (dBm)	20.26		
Conducted Power Limit (dBm)	24		
Margin (dB)	3.74		
Maximum EIRP power (dBm)	24.82		
EIRP power Limit (dBm)	30		
Margin (dB)	5.18		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 4.56 dBi

	channel 106 5530 MHz			channel 122 5610 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	9.12	9.21	9.33	15.76	15.67	15.79
Duty Cycle Correction Factor (dB)	0.18	0.18	0.18	0.18	0.18	0.18
Max. conducted power corrected (dBm)	9.30	9.39	9.51	15.94	15.85	15.97
Combined Conducted Power (dBm)	14.17			20.69		
Conducted Power Limit (dBm)	24					
Margin (dB)	9.83			3.31		
Maximum EIRP power (dBm)	18.73			25.25		
EIRP power Limit (dBm)	30					
Margin (dB)	11.27			4.75		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.34 dBi

	channel 100 5500 MHz			Channel116 5580 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	14.28	14.26	14.37	15.69	15.88	15.86
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11	0.11	0.11	0.11
Max. conducted power corrected (dBm)	14.39	14.37	14.48	15.80	15.99	15.97
Combined Conducted Power (dBm)	19.19			20.69		
Conducted Power Limit (dBm)	24					
Margin (dB)	4.81			3.31		
Maximum EIRP power (dBm)	22.53			24.03		
EIRP power Limit (dBm)	30					
Margin (dB)	7.47			5.97		
Measurement uncertainty (dB)	<±1.20					

	channel 140 5700 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	13.82	13.85	13.77
Duty Cycle Correction Factor (dB)	0.11	0.11	0.11
Max. conducted power corrected (dBm)	13.93	13.96	13.88
Combined Conducted Power (dBm)	18.70		
Conducted Power Limit (dBm)	24		
Margin (dB)	5.30		
Maximum EIRP power (dBm)	22.04		
EIRP power Limit (dBm)	30		
Margin (dB)	7.96		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.34 dBi

	channel 102 5510 MHz			channel 110 5550 MHz			channel 118 5590 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	11.66	11.61	11.76	17.81	18.02	17.97	17.83	17.99	17.75
Duty Cycle Correction Factor (dB)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Max. conducted power corrected (dBm)	11.88	11.83	11.98	18.03	18.24	18.19	18.05	18.21	17.97
Combined Conducted Power (dBm)	16.67			22.92			22.85		
Conducted Power Limit (dBm)	24								
Margin (dB)	7.33			1.08			1.15		
Maximum EIRP power (dBm)	20.01			26.26			26.19		
EIRP power Limit (dBm)	30								
Margin (dB)	9.99			3.74			3.81		
Measurement uncertainty (dB)	<±1.20								

	channel 134 5670 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	15.70	15.62	15.54
Duty Cycle Correction Factor (dB)	0.22	0.22	0.22
Max. conducted power corrected (dBm)	15.92	15.84	15.76
Combined Conducted Power (dBm)	20.61		
Conducted Power Limit (dBm)	24		
Margin (dB)	3.39		
Maximum EIRP power (dBm)	23.95		
EIRP power Limit (dBm)	30		
Margin (dB)	6.05		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 3.34 dBi

	channel 106 5530 MHz			channel 122 5610 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	9.02	9.23	9.12	15.67	15.53	15.60
Duty Cycle Correction Factor (dB)	0.37	0.37	0.37	0.37	0.37	0.37
Max. conducted power corrected (dBm)	9.39	9.60	9.49	16.04	15.90	15.97
Combined Conducted Power (dBm)	14.26			20.74		
Conducted Power Limit (dBm)	24					
Margin (dB)	9.74			3.26		
Maximum EIRP power (dBm)	17.60			24.08		
EIRP power Limit (dBm)	30					
Margin (dB)	12.40			5.92		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11n HT20 – TxBF – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 8.04 dBi

	channel 100 5500 MHz			Channel116 5580 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	12.66	12.77	12.62	13.53	13.81	13.73
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14	0.14	0.14	0.14
Max. conducted power corrected (dBm)	12.80	12.91	12.76	13.67	13.95	13.87
Combined Conducted Power (dBm)	17.59			18.60		
Conducted Power Limit (dBm)	21.96					
Margin (dB)	4.37			3.36		
Maximum EIRP power (dBm)	25.63			26.64		
EIRP power Limit (dBm)	30					
Margin (dB)	4.37			3.36		
Measurement uncertainty (dB)	<±1.20					

	channel 140 5700 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	12.63	12.70	12.55
Duty Cycle Correction Factor (dB)	0.14	0.14	0.14
Max. conducted power corrected (dBm)	12.77	12.84	12.69
Combined Conducted Power (dBm)	17.53		
Conducted Power Limit (dBm)	21.96		
Margin (dB)	4.42		
Maximum EIRP power (dBm)	25.58		
EIRP power Limit (dBm)	30		
Margin (dB)	4.42		
Measurement uncertainty (dB)	<±1.20		

Mode : 802.11n HT40 – TxBF – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 8.04 dBi

	channel 102 5510 MHz			channel 110 5550 MHz			channel 118 5590 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	9.82	9.72	9.80	15.89	16.03	16.04	16.01	15.93	15.79
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Max. conducted power corrected (dBm)	9.95	9.85	9.93	16.02	16.16	16.17	16.14	16.06	15.92
Combined Conducted Power (dBm)	14.68			20.89			20.81		
Conducted Power Limit (dBm)	21.96								
Margin (dB)	7.27			1.07			1.14		
Maximum EIRP power (dBm)	22.73			28.93			28.86		
EIRP power Limit (dBm)	30								
Margin (dB)	7.27			1.07			1.14		
Measurement uncertainty (dB)	<±1.20								

	channel 134 5670 MHz		
	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	13.64	13.79	13.79
Duty Cycle Correction Factor (dB)	0.13	0.13	0.13
Max. conducted power corrected (dBm)	13.77	13.92	13.92
Combined Conducted Power (dBm)	18.64		
Conducted Power Limit (dBm)	21.96		
Margin (dB)	11.36		
Maximum EIRP power (dBm)	18.64		
EIRP power Limit (dBm)	30		
Margin (dB)	11.36		
Measurement uncertainty (dB)	<±1.20		

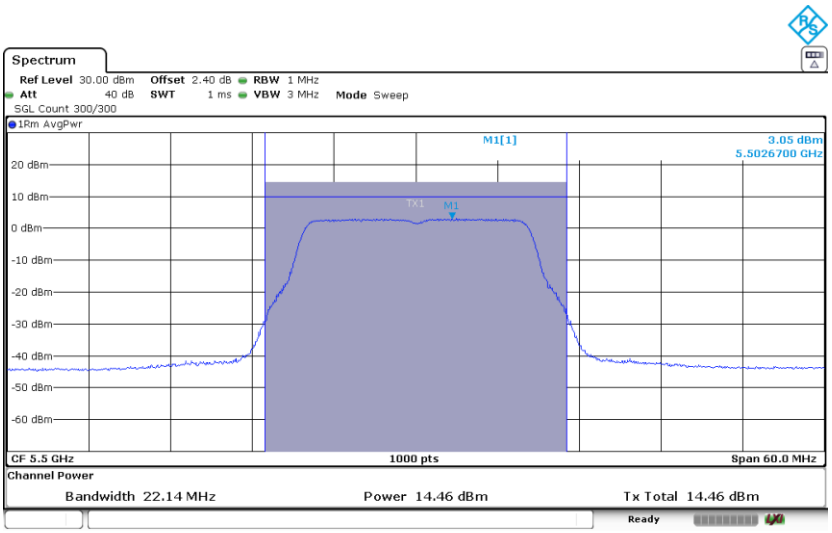
Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Directional Antenna Gain: 8.04 dBi

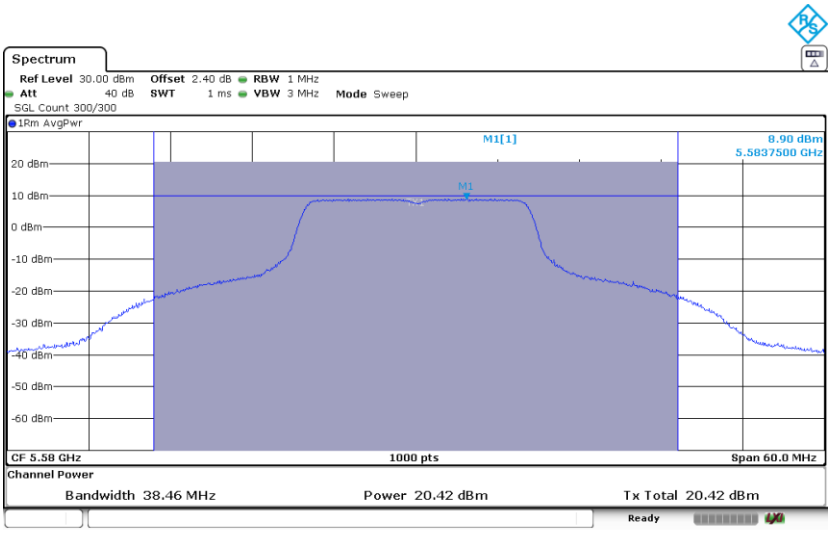
	channel 106 5530 MHz			channel 122 5610 MHz		
	CORE 0	CORE 1	CORE 2	CORE 0	CORE 1	CORE 2
Max. conducted power (dBm)	9	9.23	9.09	14.57	14.78	14.53
Duty Cycle Correction Factor (dB)	0.12	0.12	0.12	0.12	0.12	0.12
Max. conducted power corrected (dBm)	9.12	9.35	9.21	14.69	14.90	14.65
Combined Conducted Power (dBm)	14			19.52		
Conducted Power Limit (dBm)	21.96					
Margin (dB)	7.96			2.44		
Maximum EIRP power (dBm)	22.04			27.56		
EIRP power Limit (dBm)	30					
Margin (dB)	7.96			2.44		
Measurement uncertainty (dB)	<±1.20					

Mode : 802.11a - 20MHz – SISO – CORE 2

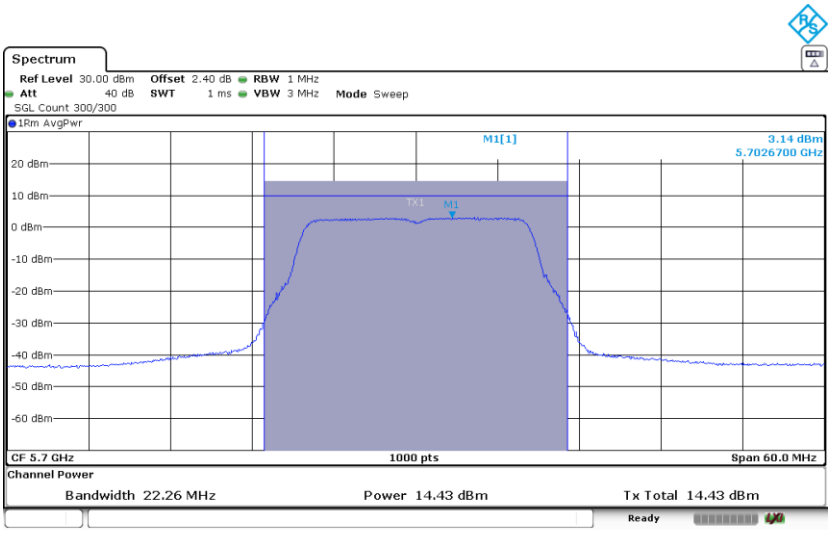
Channel 100



Channel 116

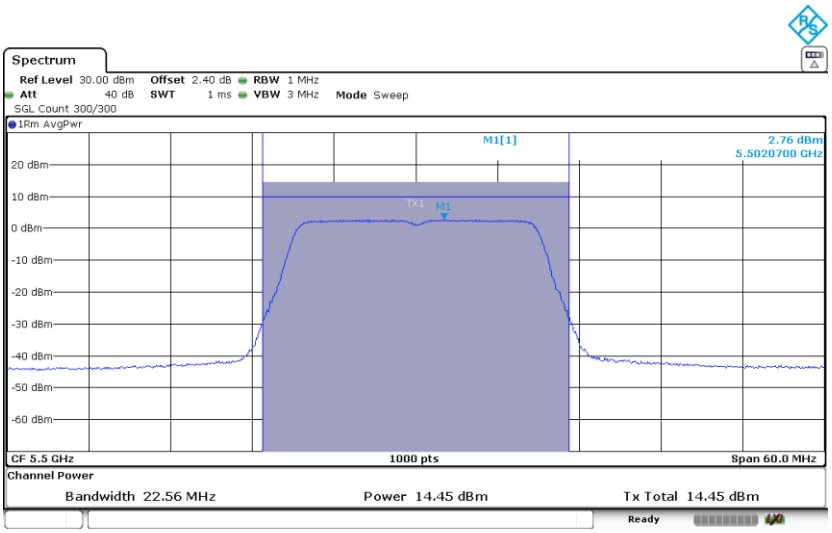


Channel 140

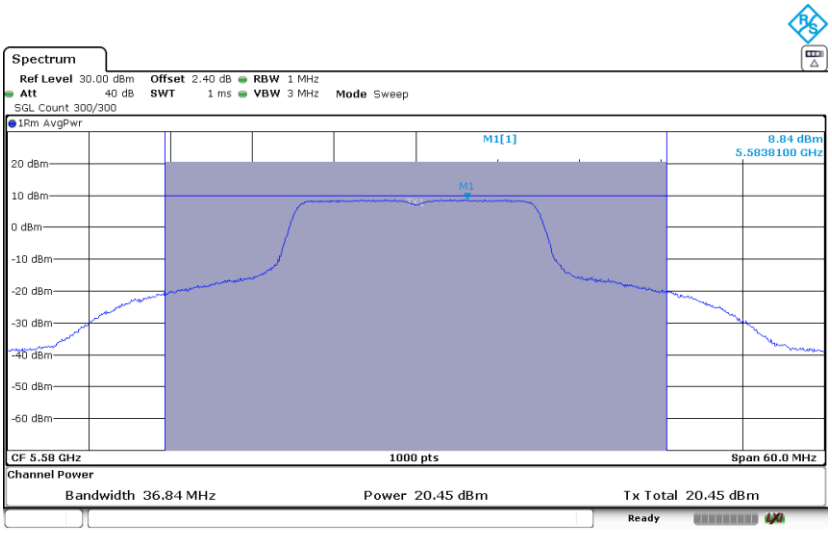


Mode : 802.11n HT20 - 20MHz – SISO – CORE 2

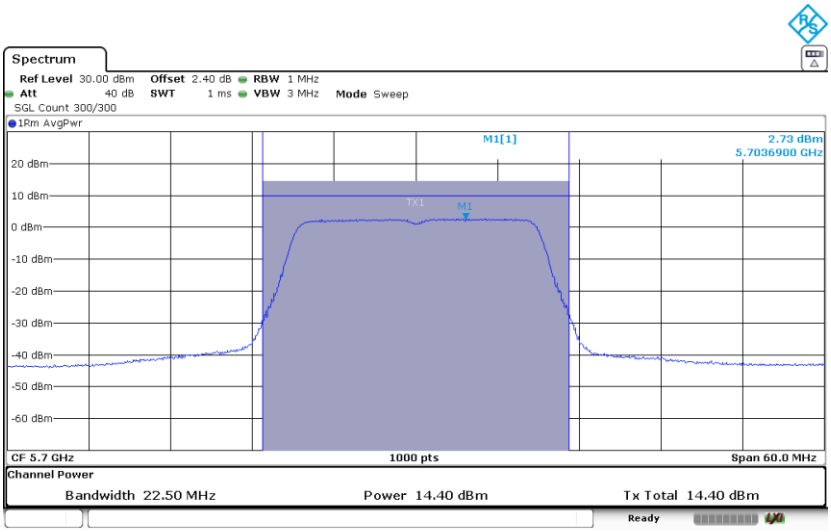
Channel 100



Channel 116

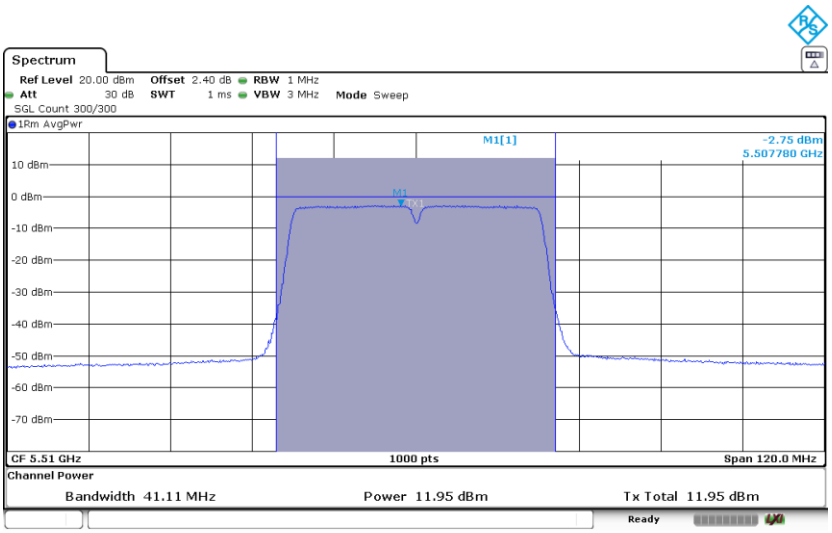


Channel 140

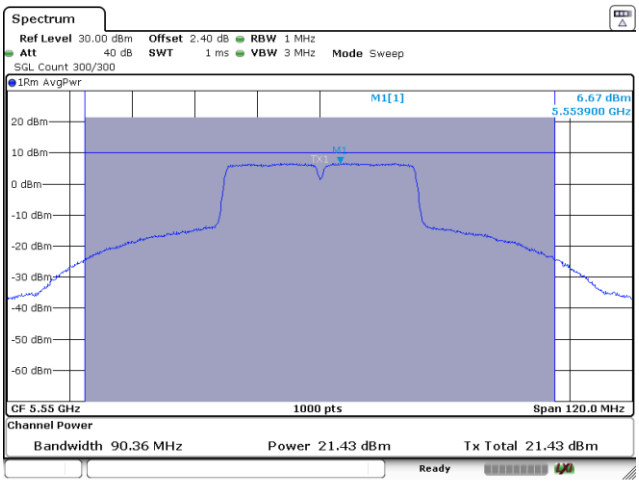


Mode : 802.11n HT40 - 40MHz – SISO – CORE 2

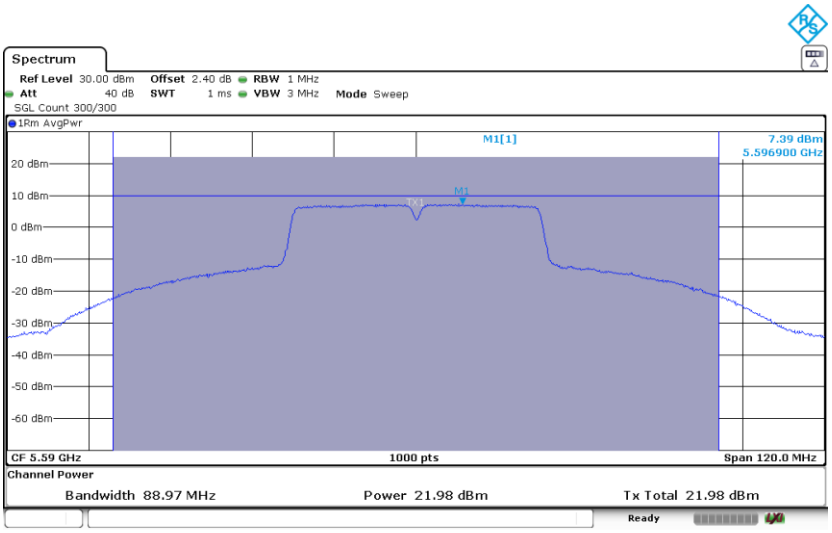
Channel 102



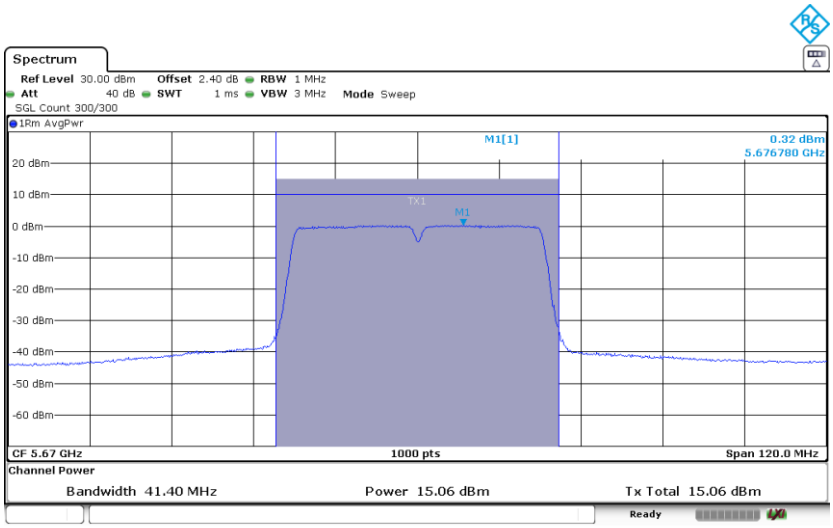
Channel 110



Channel 118

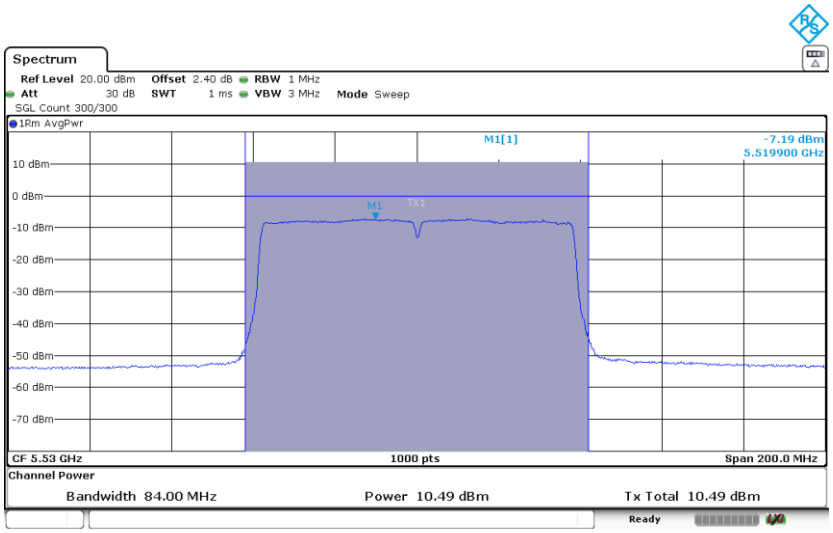


Channel 134

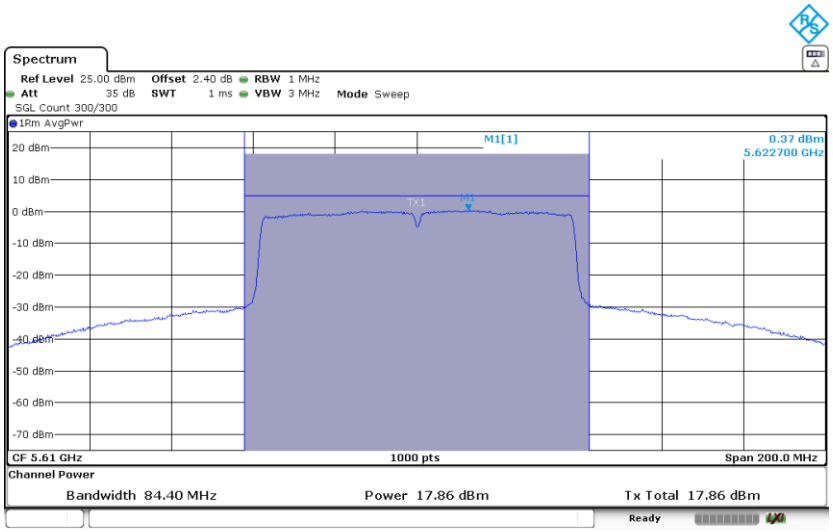


Mode : 802.11ac VHT80 - 80MHz – SISO – CORE 2

Channel 106

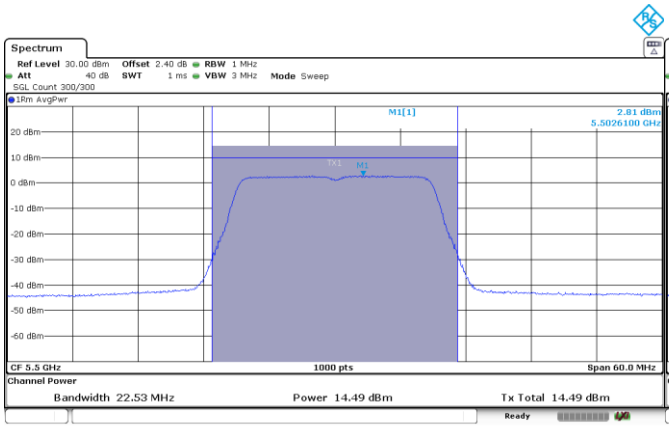


Channel 122

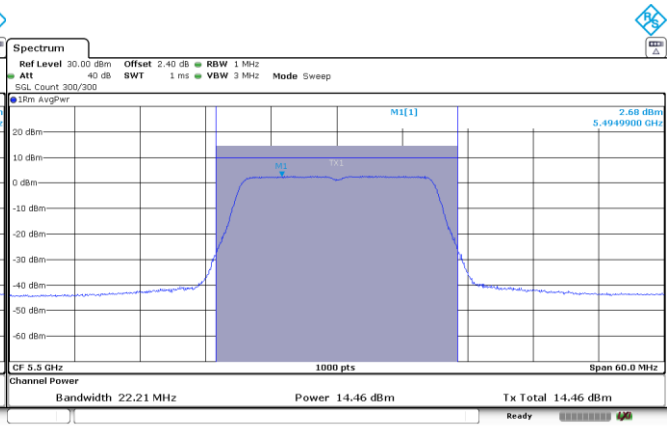


Moode : 802.11n HT20 – CDD – 20MHz – MIMO –CORE 0 & CORE 2

Channel 100

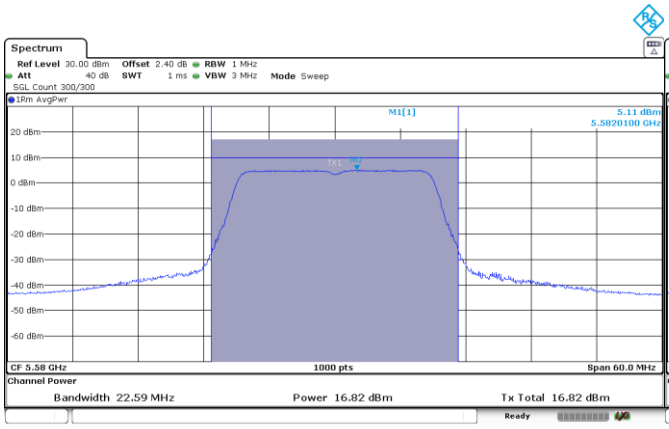


CORE 0

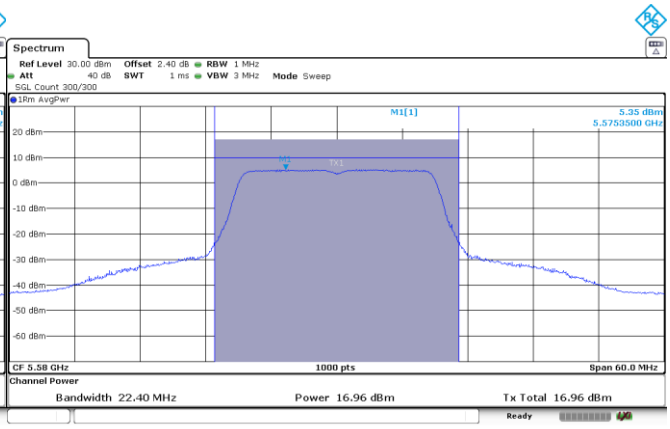


CORE 2

Channel 116

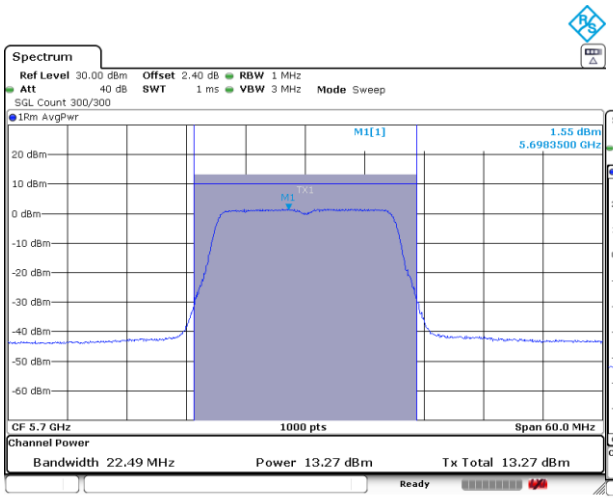


CORE 0

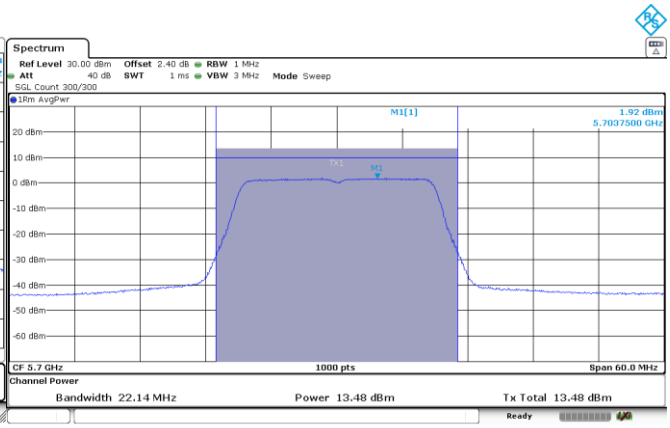


CORE 2

Channel 140



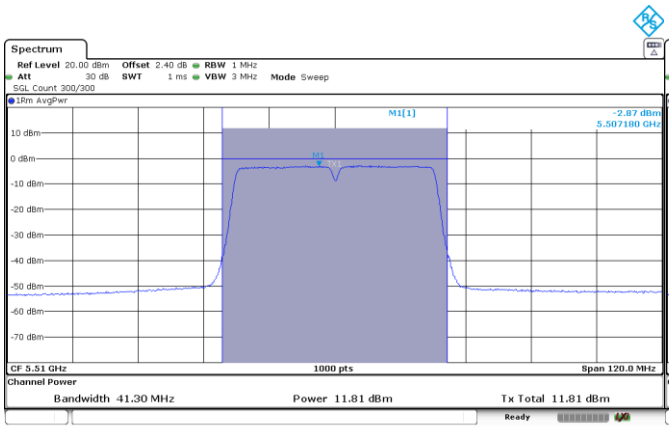
CORE 0

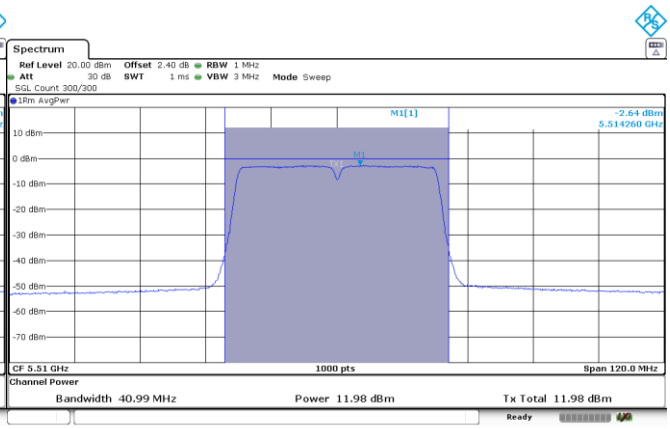


CORE 2

Mode : 802.11n HT40 – CDD – 40MHz – MIMO –CORE 0 & CORE 2

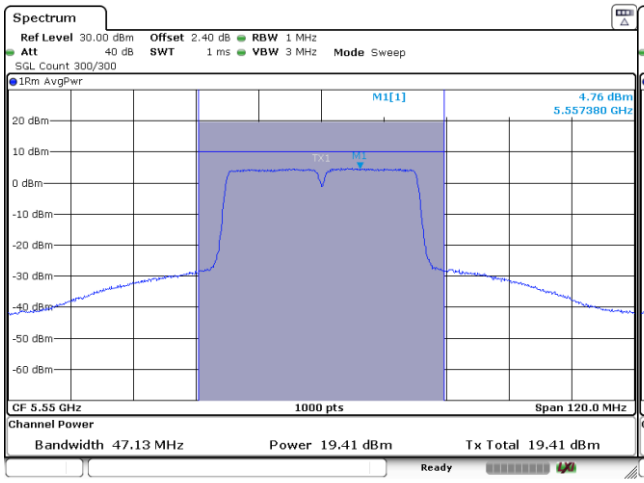
Channel 102

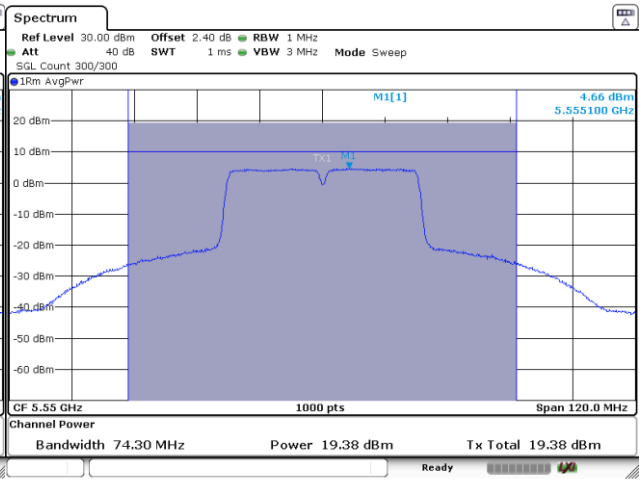




CORE 0 CORE 2

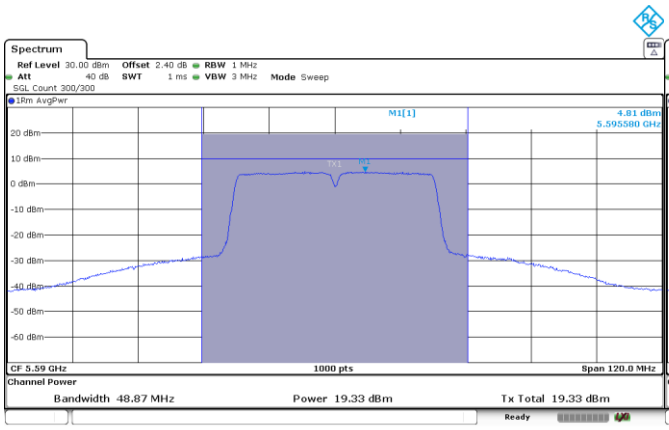
Channel 110

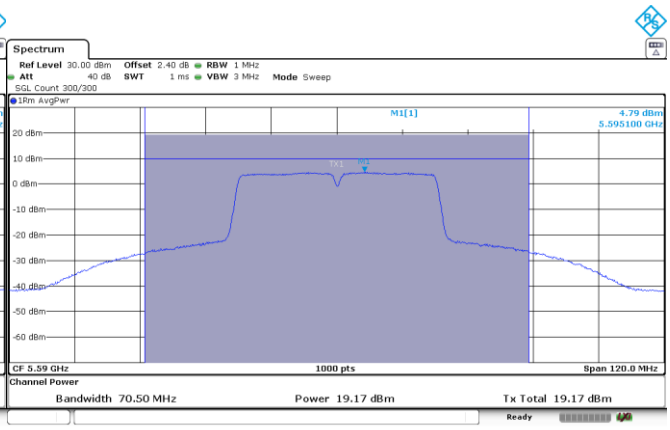




CORE 0 CORE 2

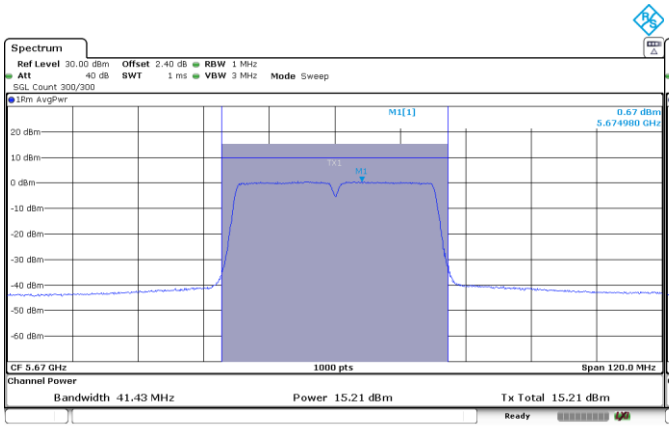
Channel 118



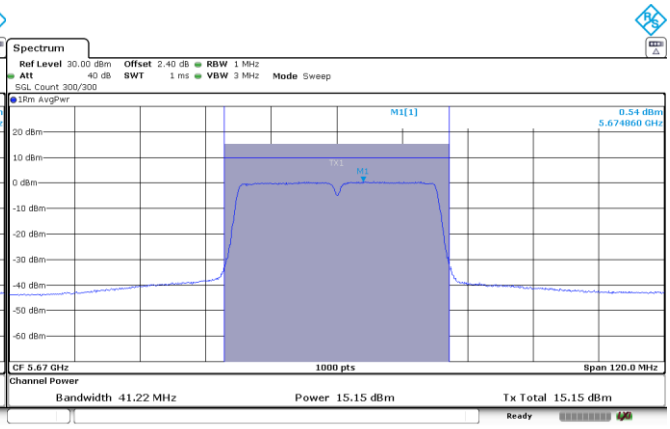


CORE 0 CORE 2

Channel 134



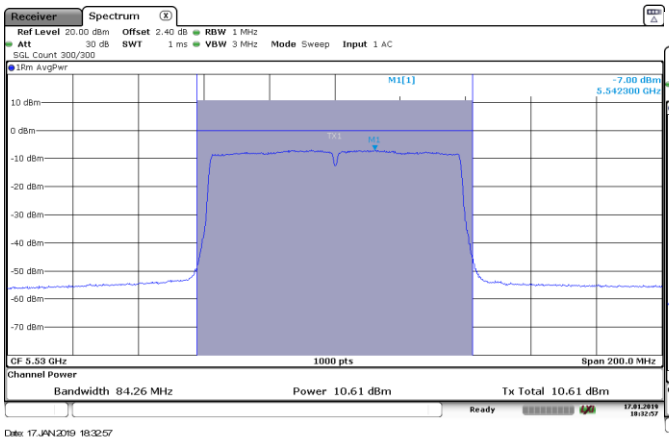
CORE 0



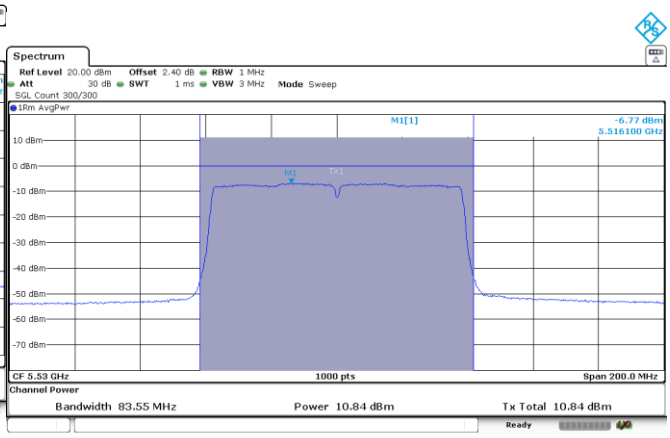
CORE 2

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO –CORE 0 & CORE 2

Channel 106

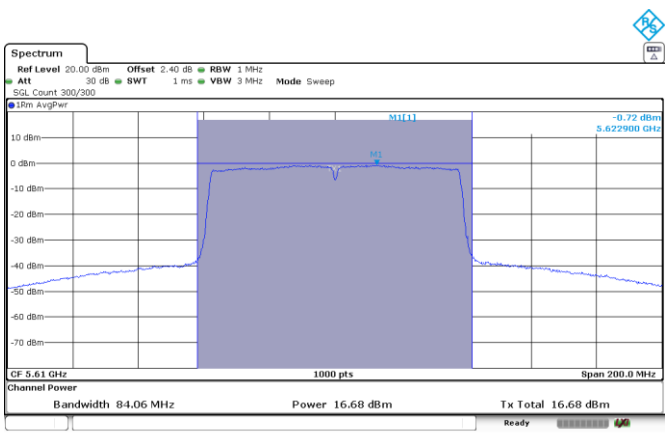


CORE 0

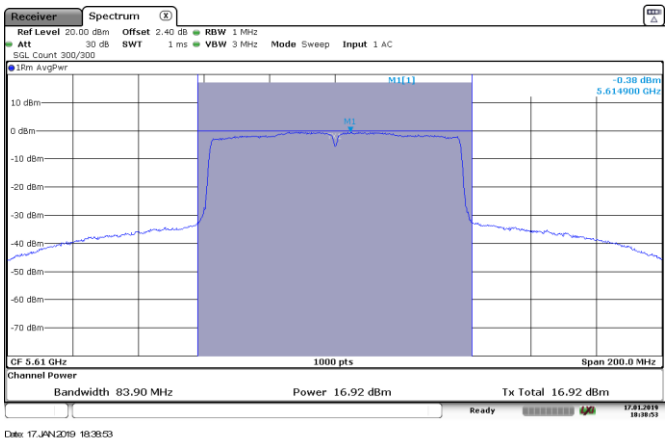


CORE 2

Channel 122



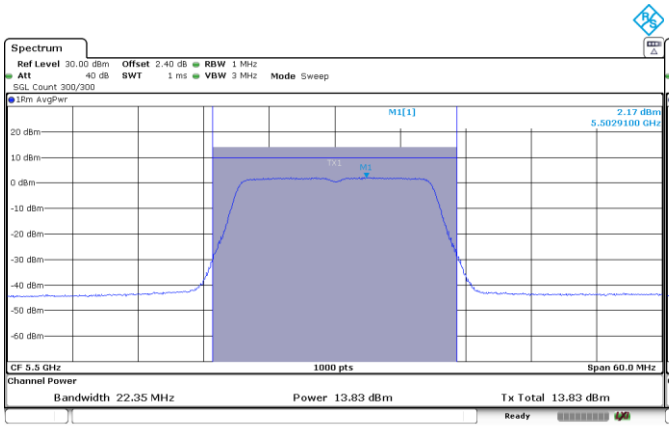
CORE 0



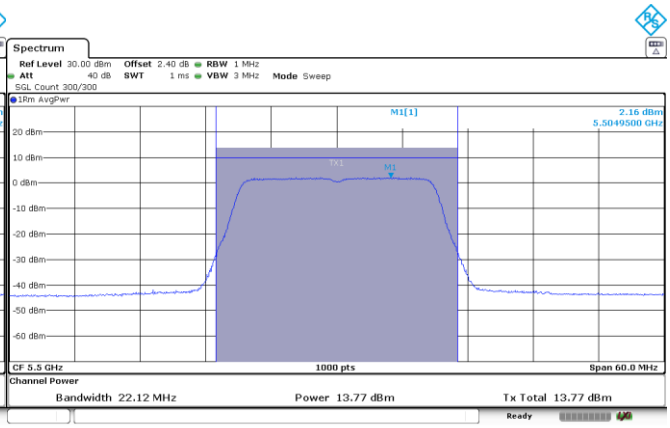
CORE 2

Mode : 802.11n HT20 – SDM – 20MHz – MIMO –CORE 0 & CORE 2

Channel 100

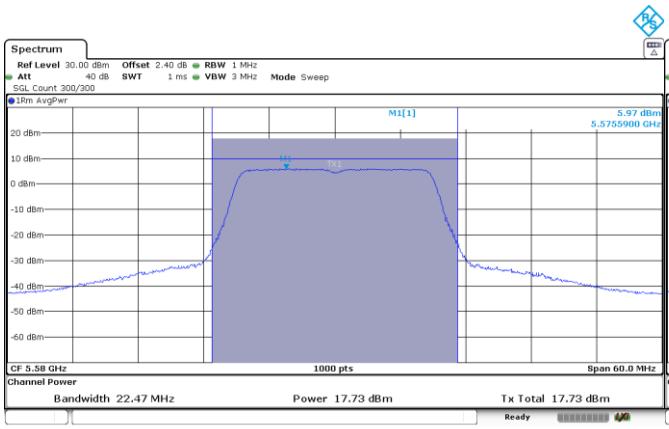


CORE 0

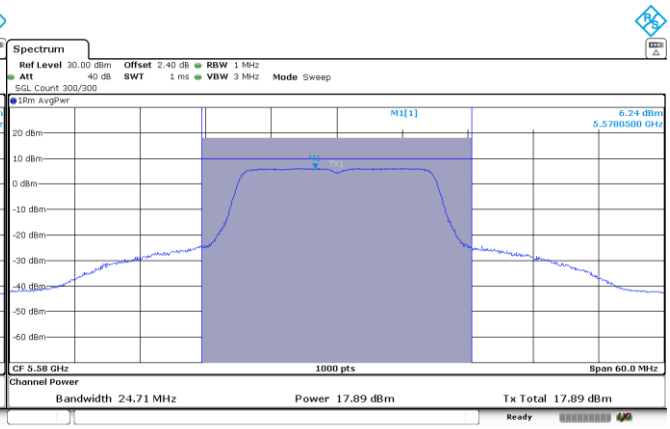


CORE 2

Channel 116

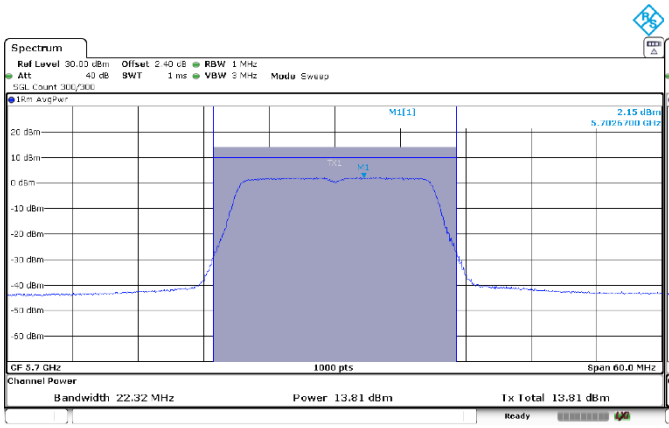


CORE 0

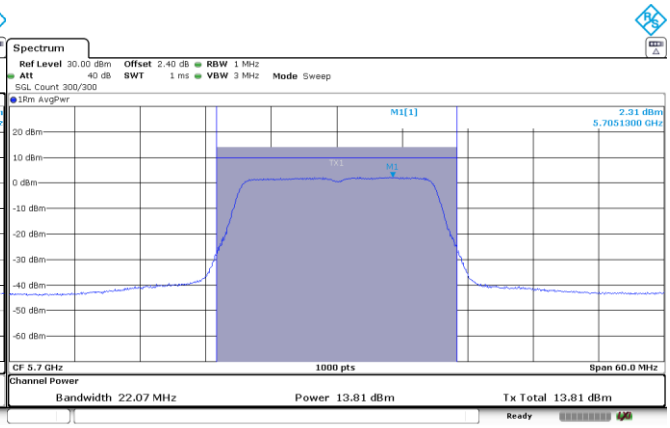


CORE 2

Channel 140



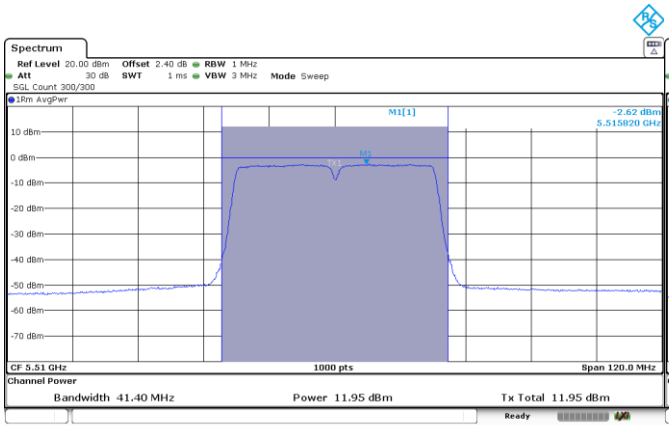
CORE 0

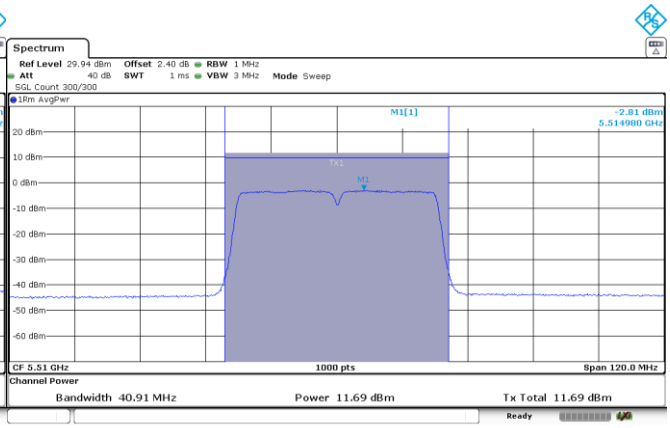


CORE 2

Mode : 802.11n HT40 – SDM – 40MHz – MIMO –CORE 0 & CORE 2

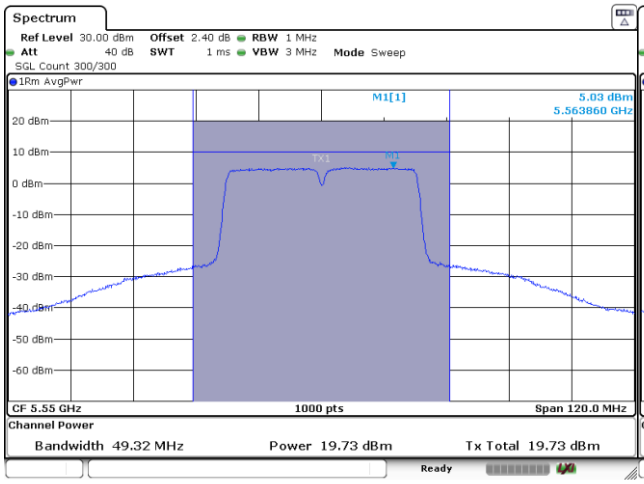
Channel 102

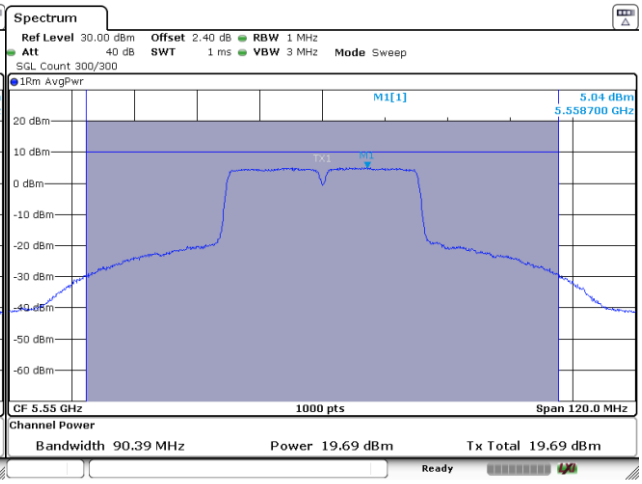




CORE 0 CORE 2

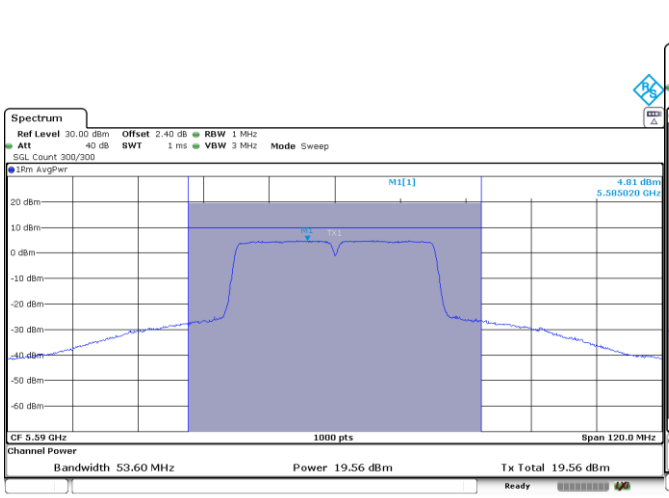
Channel 110

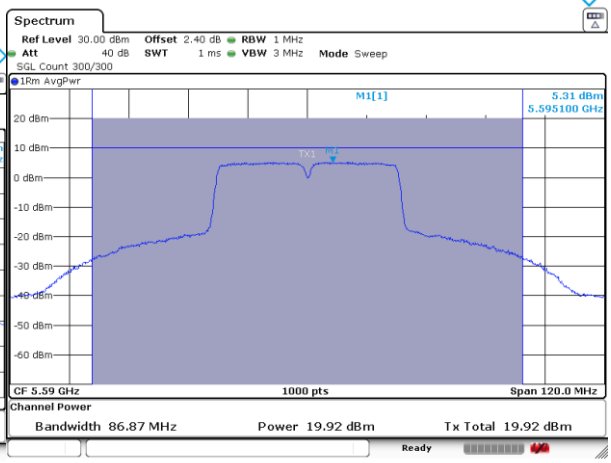




CORE 0 CORE 2

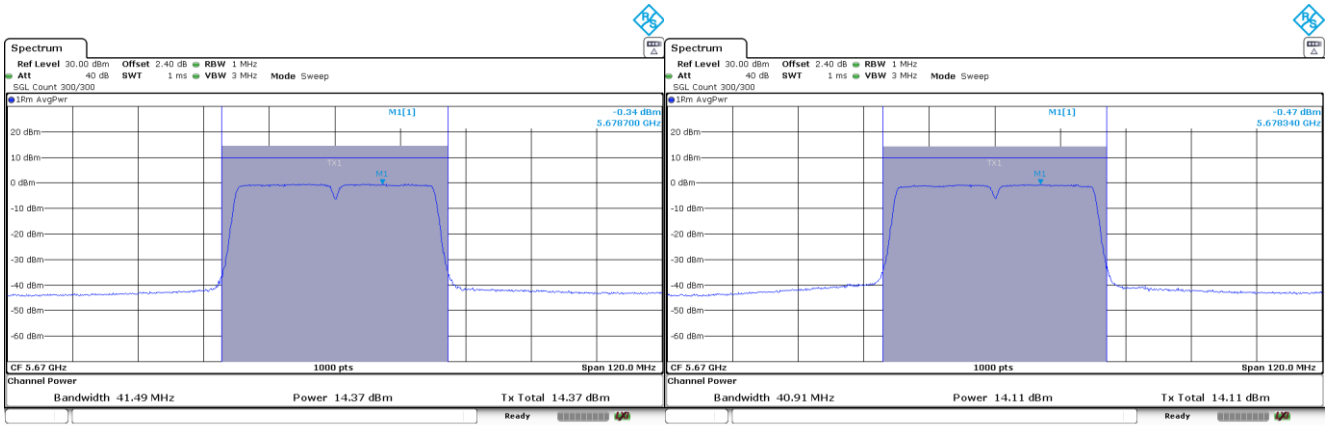
Channel 118





CORE 0 CORE 2

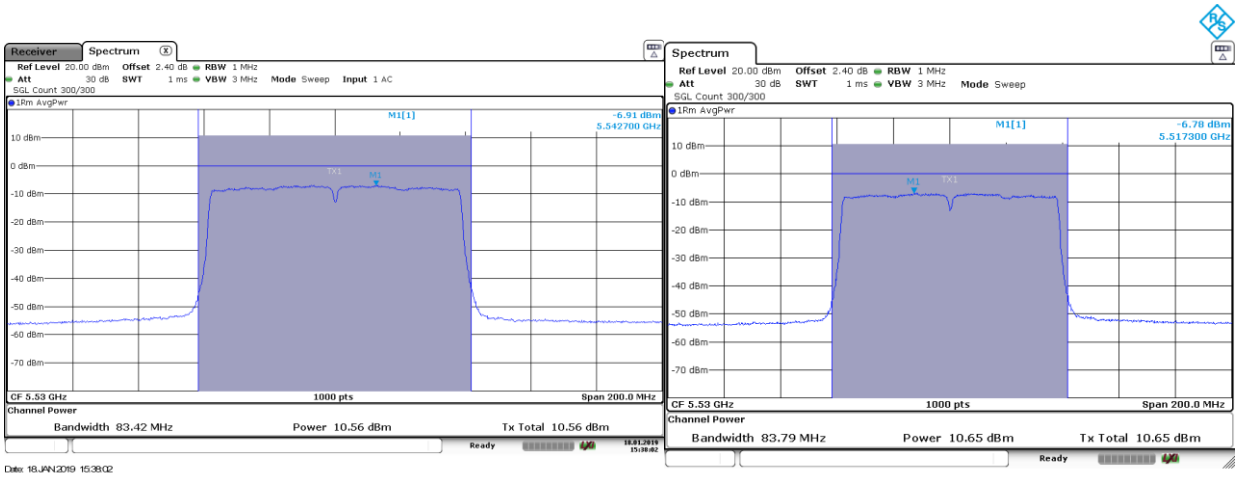
Channel 134



CORE 0 CORE 2

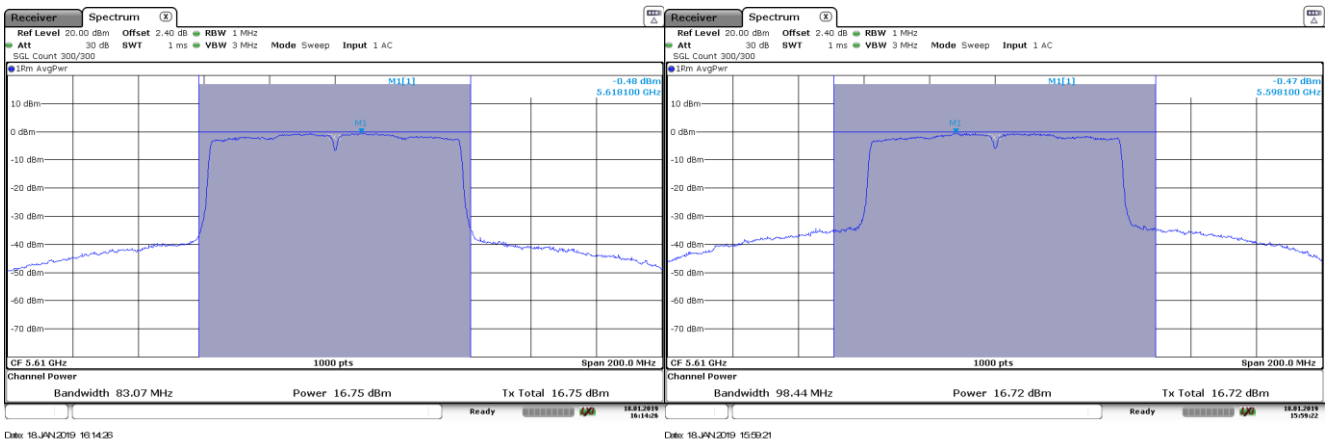
Mode : 802.11ac VHT80 – SDM – 80MHz – MIMO –CORE 0 & CORE 2

Channel 106



CORE 0 CORE 2

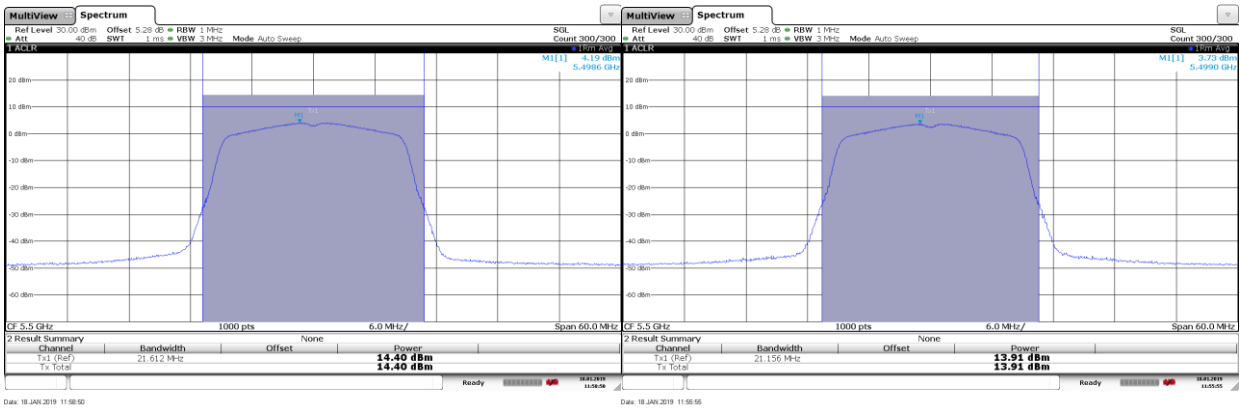
Channel 122



CORE 0 CORE 2

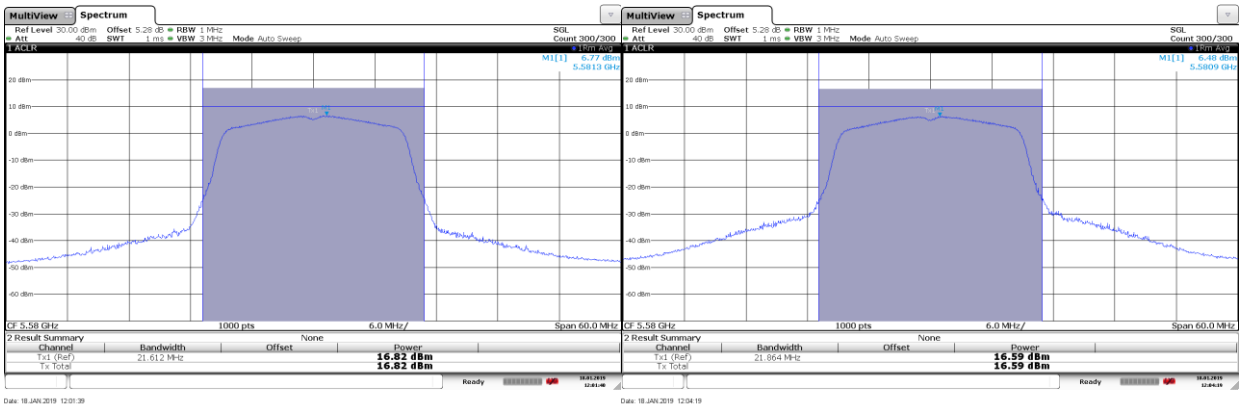
Mode : 802.11n HT20 – TxBF – 20MHz – MIMO –CORE 0 & CORE 2

Channel 100



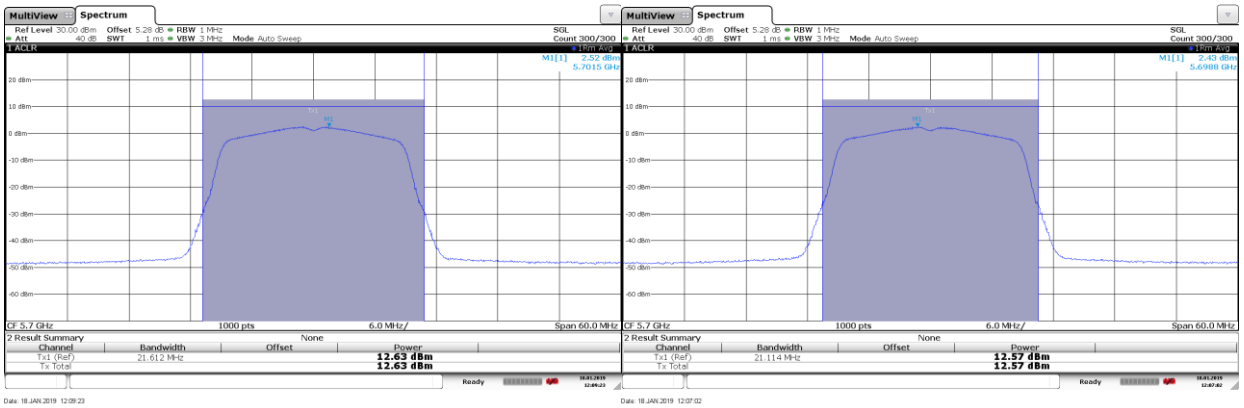
CORE 0 CORE 2

Channel 116



CORE 0 CORE 2

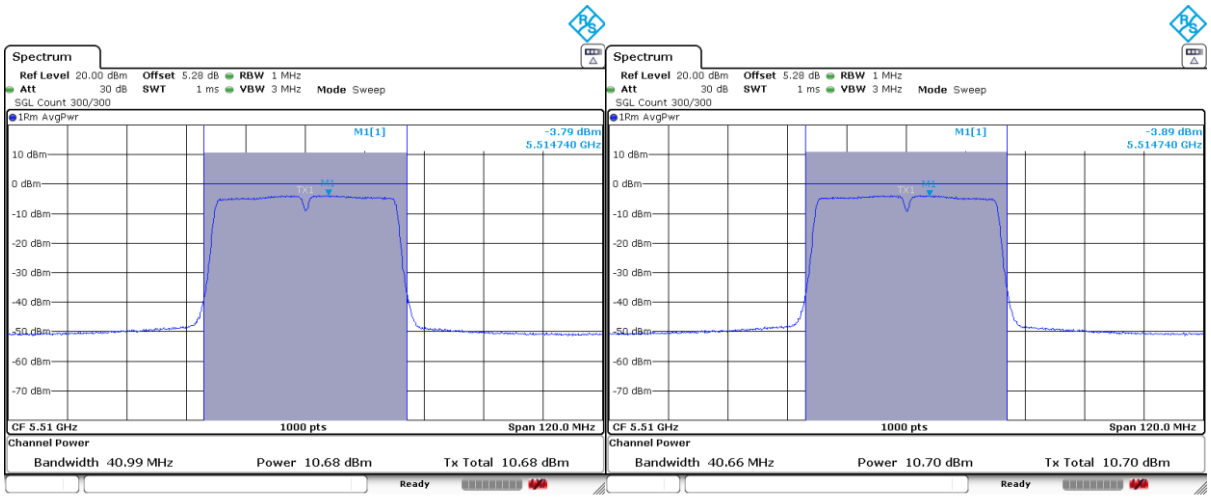
Channel 140



CORE 0 CORE 2

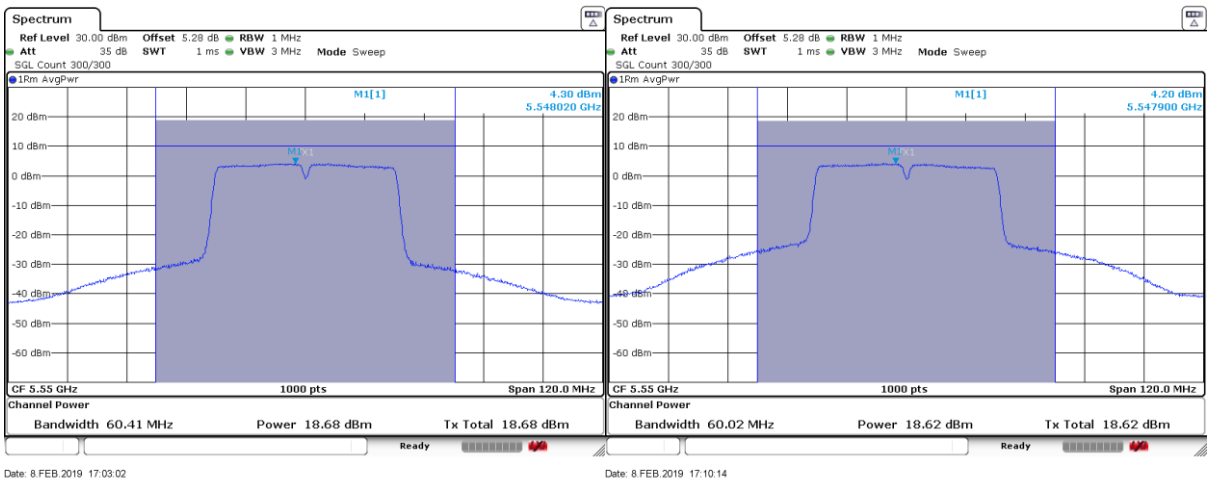
Mode : 802.11n HT40 – TxBF – 40MHz – MIMO –CORE 0 & CORE 2

Channel 102



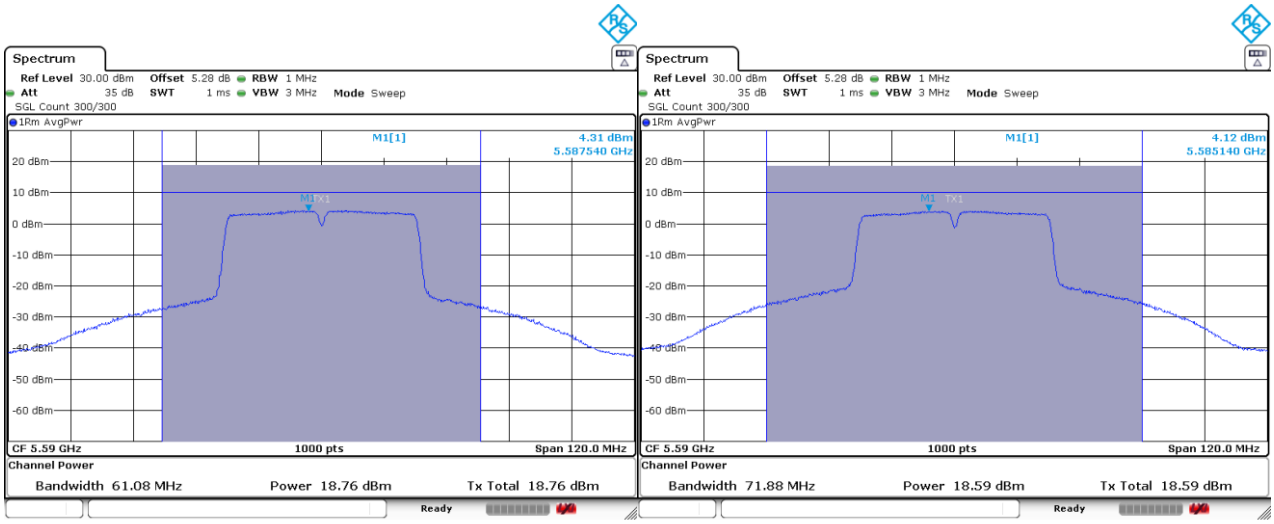
CORE 0 CORE 2

Channel 110



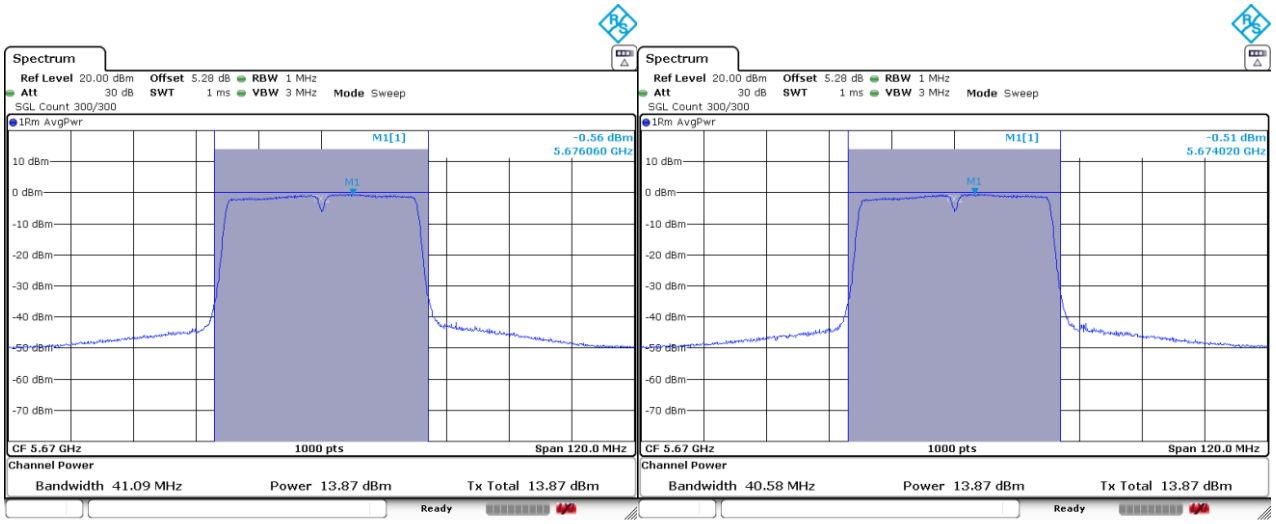
CORE 0 CORE 2

Channel 118



CORE 0 CORE 2

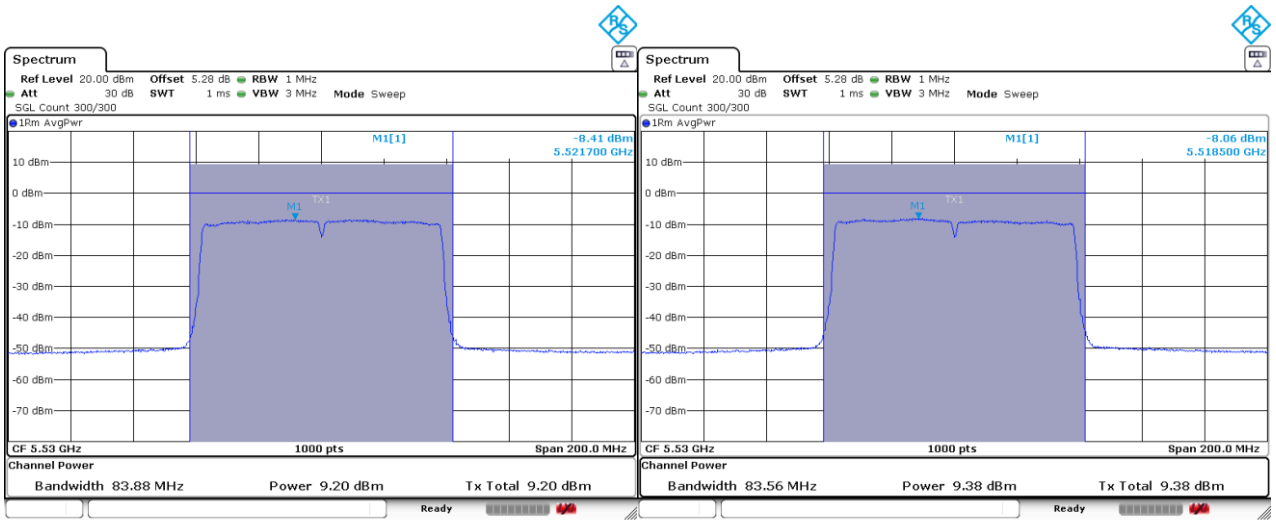
Channel 134



CORE 0 CORE 2

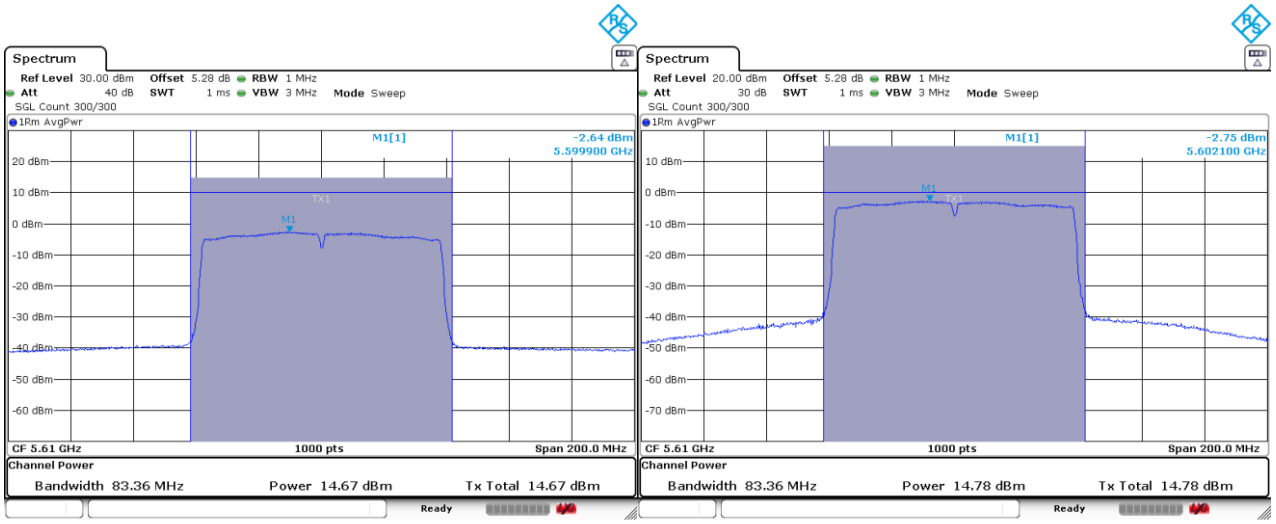
Mode : 802.11ac VHT80 – TxBF – 80MHz – MIMO – CORE 0 & CORE 2

Channel 106



CORE 0 CORE 2

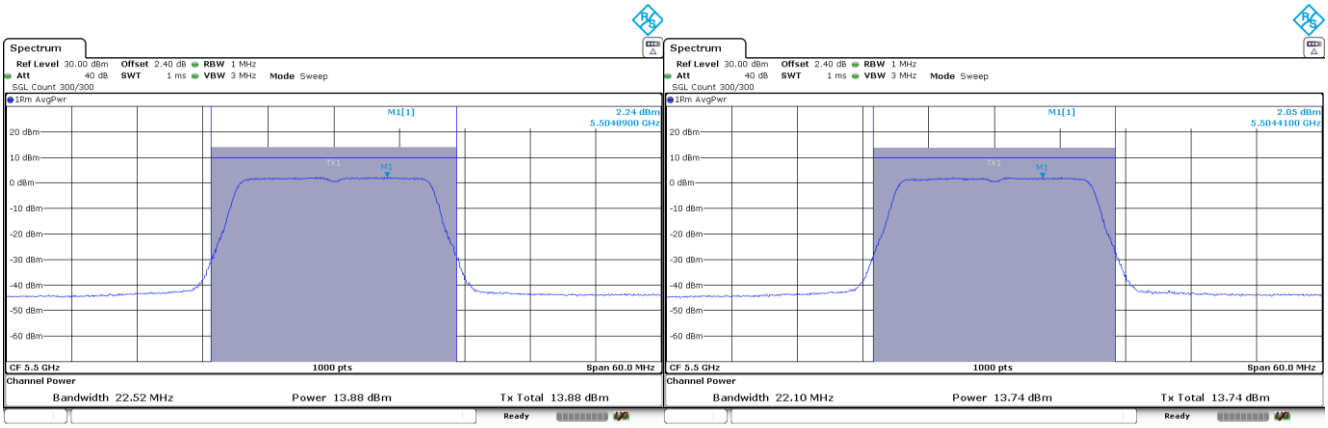
Channel 122



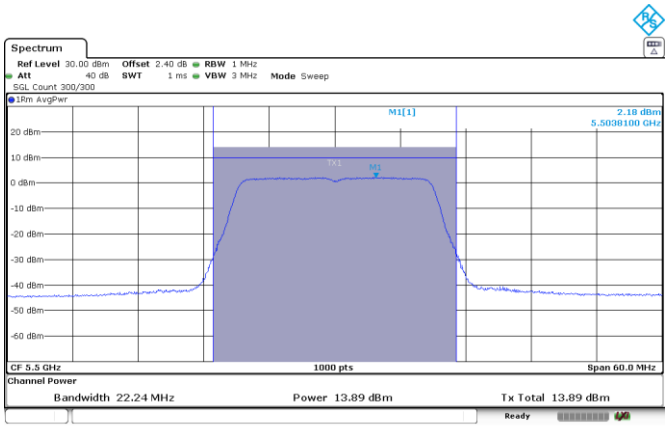
CORE 0 CORE 2

Mode : 802.11n HT20 – CDD – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

Channel 100

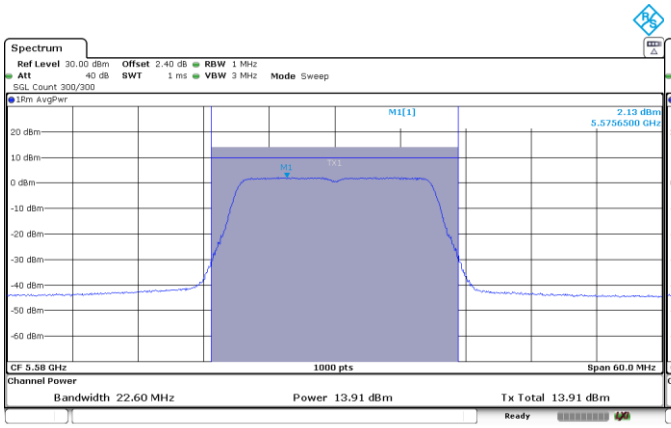


CORE 0 CORE 1

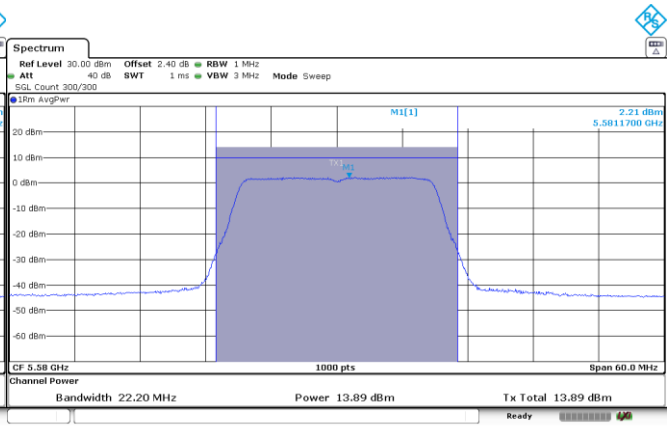


CORE 2

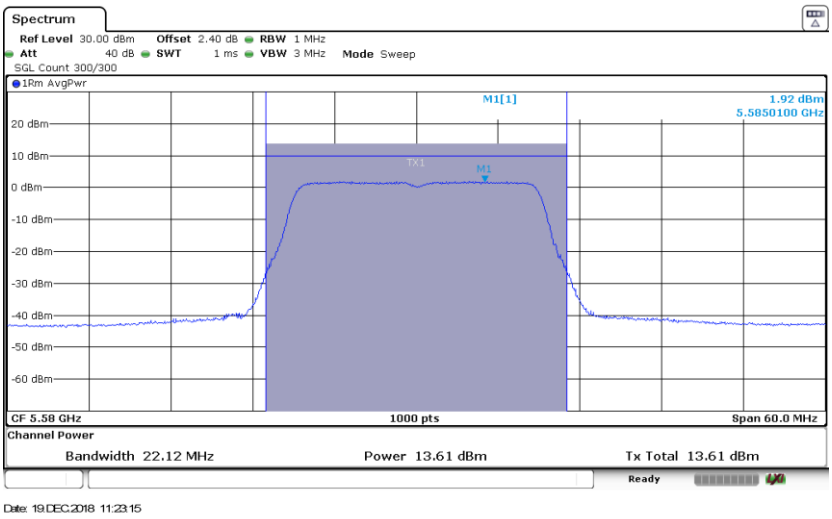
Channel 116



CORE 0

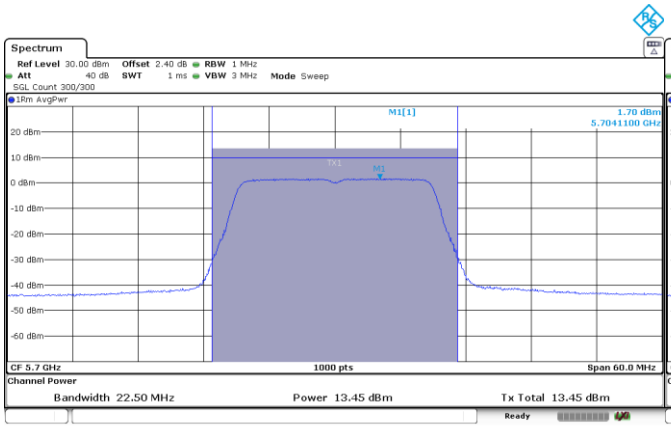


CORE 1

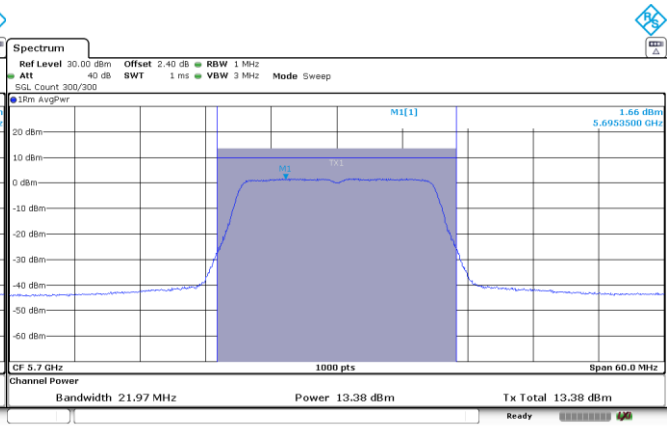


CORE 2

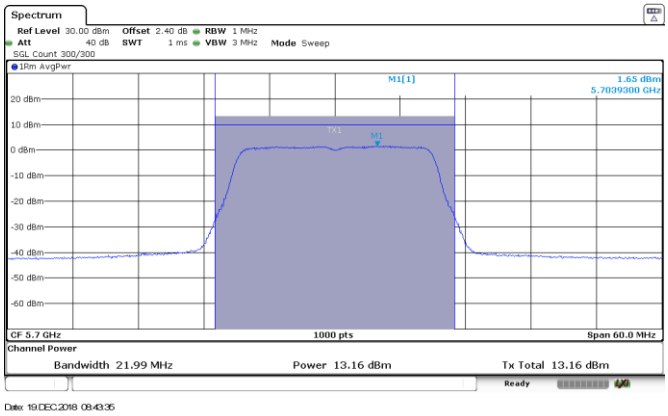
Channel 140



CORE 0



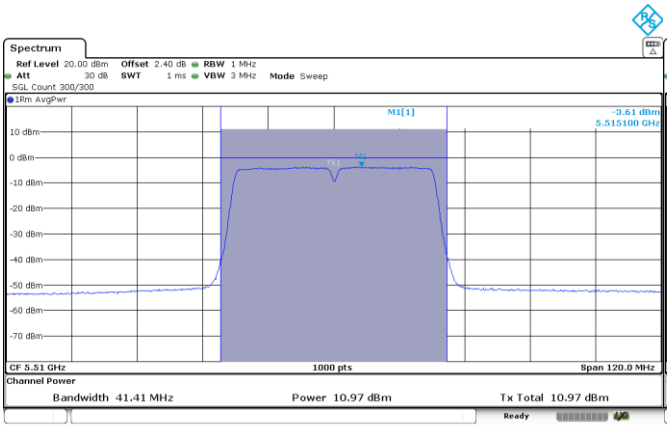
CORE 1



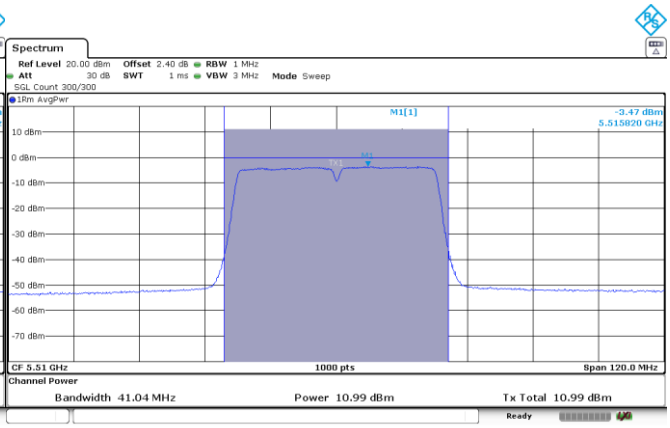
CORE 2

Mode : 802.11n HT40 – CDD – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

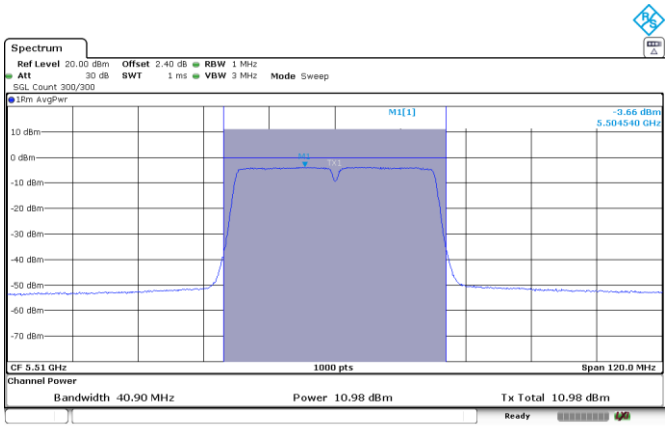
Channel 102



CORE 0

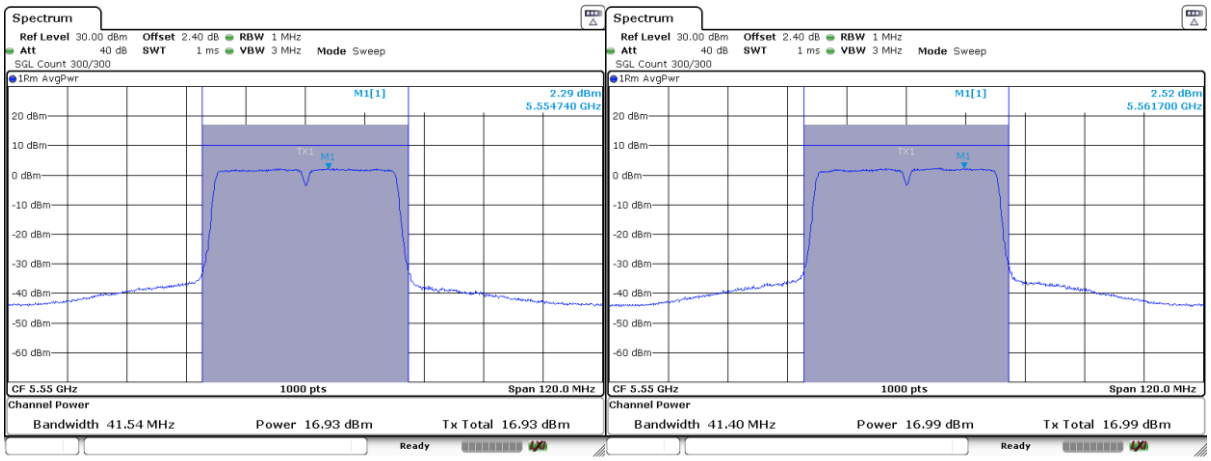


CORE 1

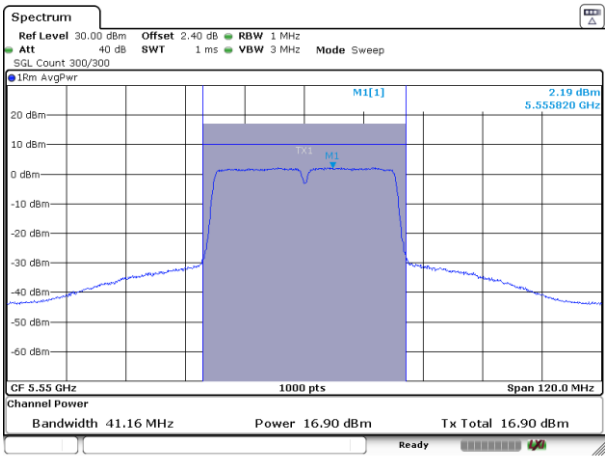


CORE 2

Channel 110

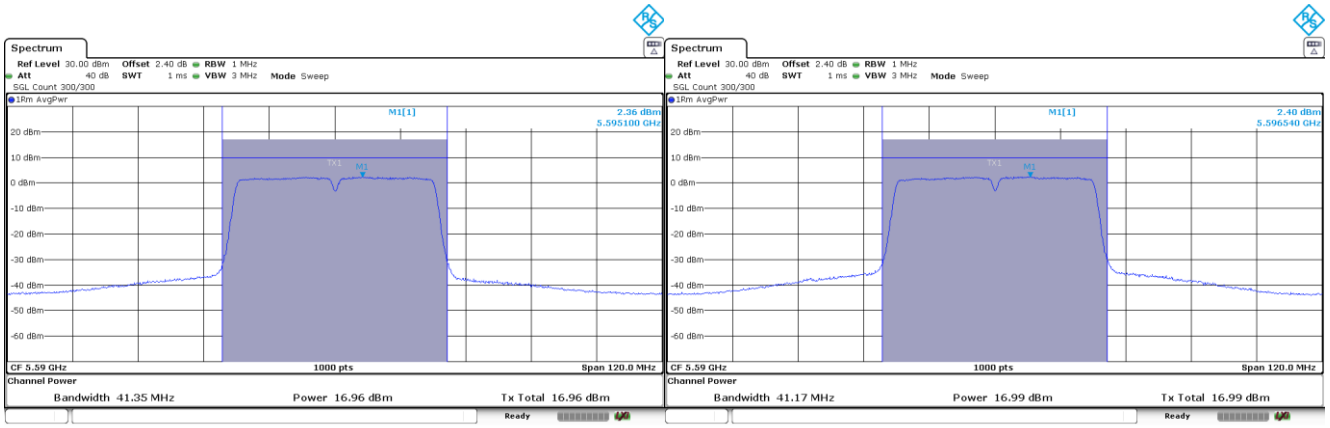


CORE 0 CORE 1

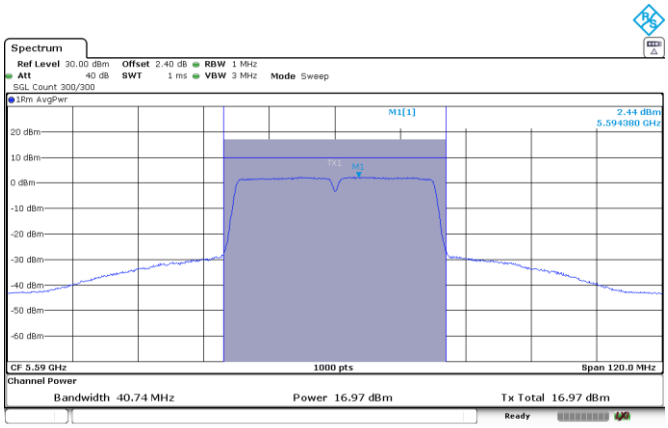


CORE 2

Channel 118

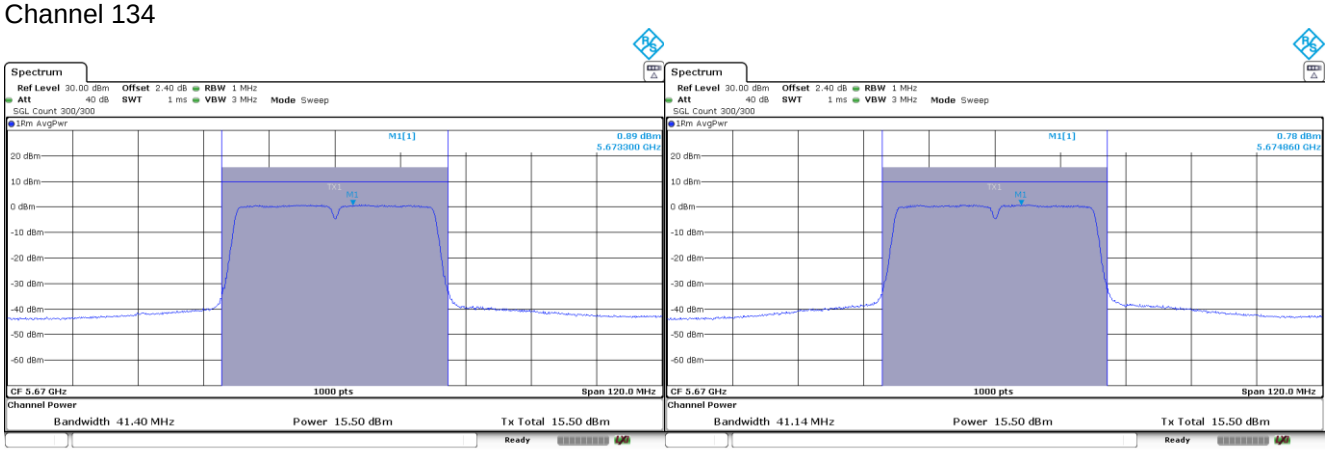


CORE 0 CORE 1

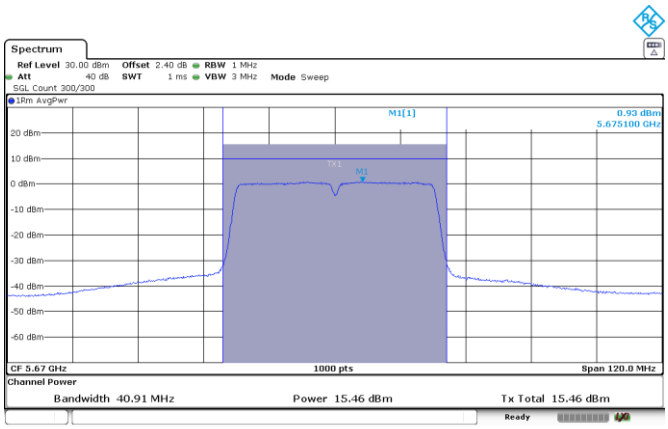


CORE 2

Channel 134



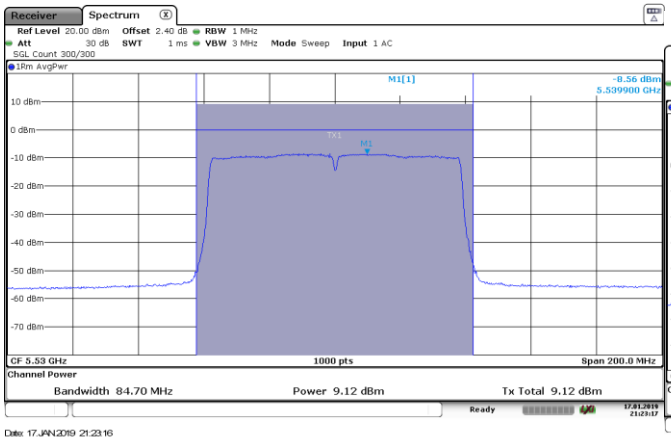
CORE 0 CORE 1



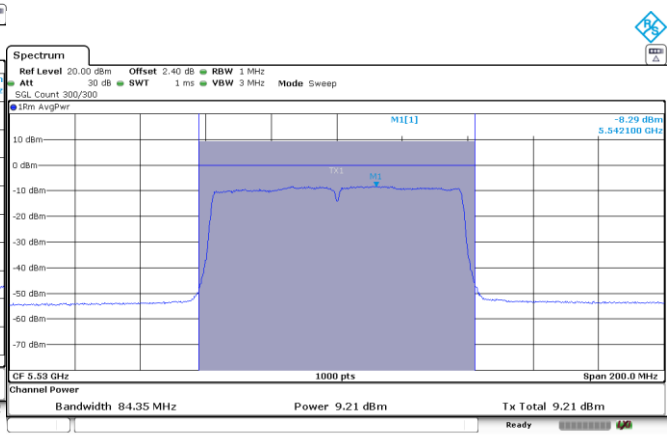
CORE 2

Mode : 802.11ac VHT80 – CDD – 80MHz – MIMO – CORE 0 & CORE 1 & CORE 2

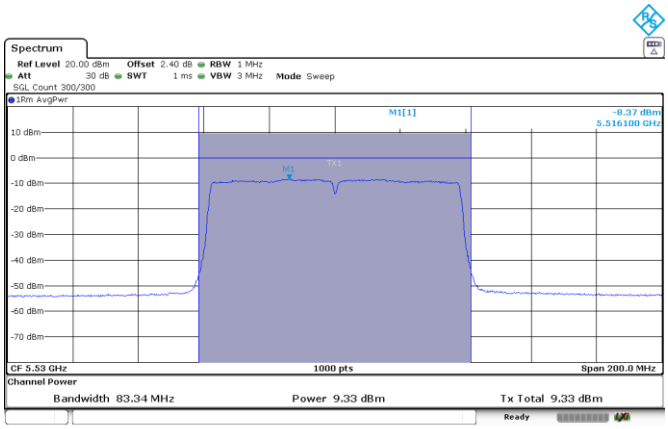
Channel 106



CORE 0

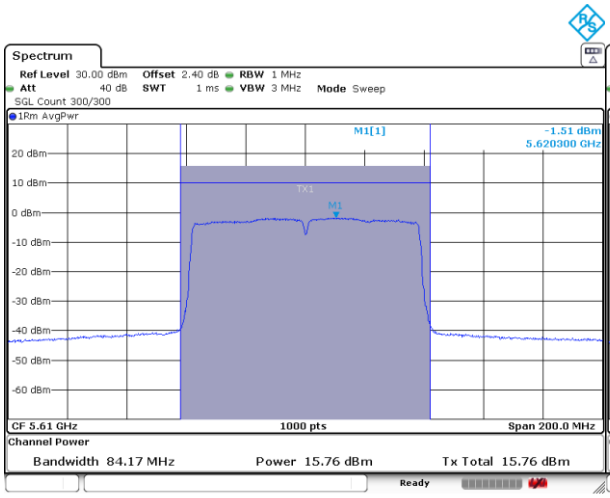


CORE 1

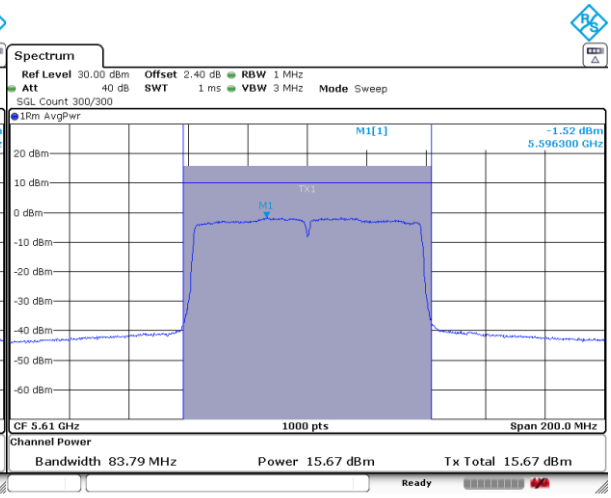


CORE 2

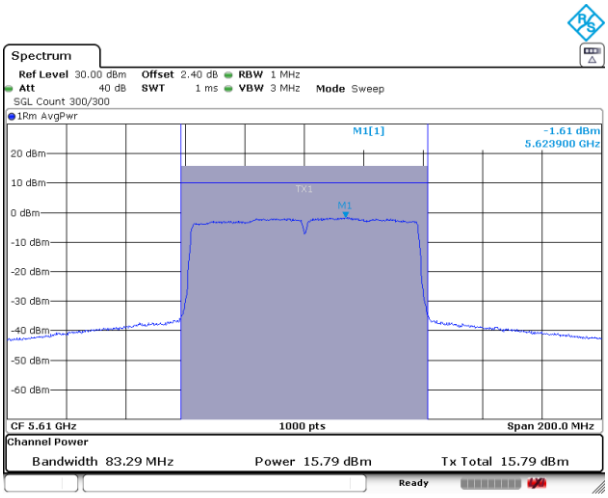
Channel 122



CORE 0



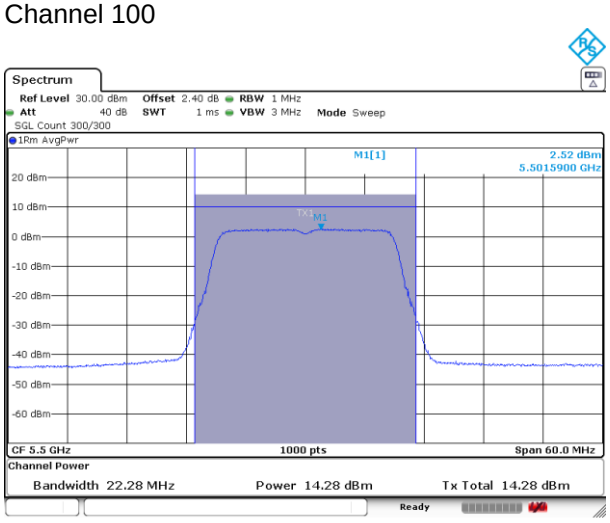
CORE 1



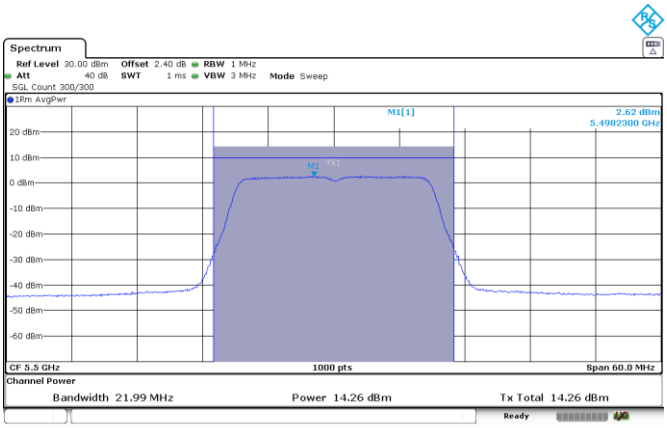
CORE 2

Mode : 802.11n HT20 – SDM – 20MHz – MIMO – CORE 0 & CORE 1 & CORE 2

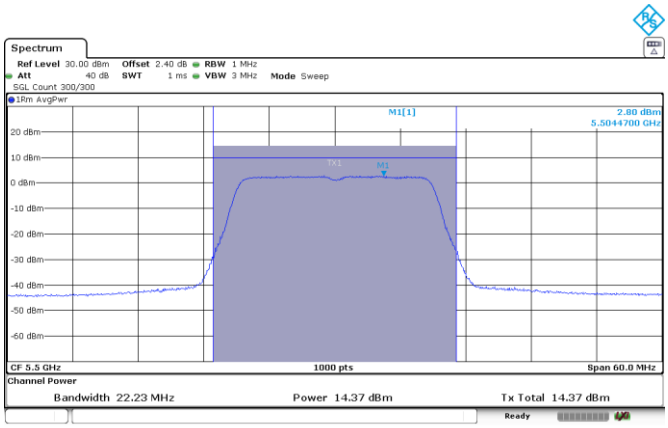
Channel 100



CORE 0

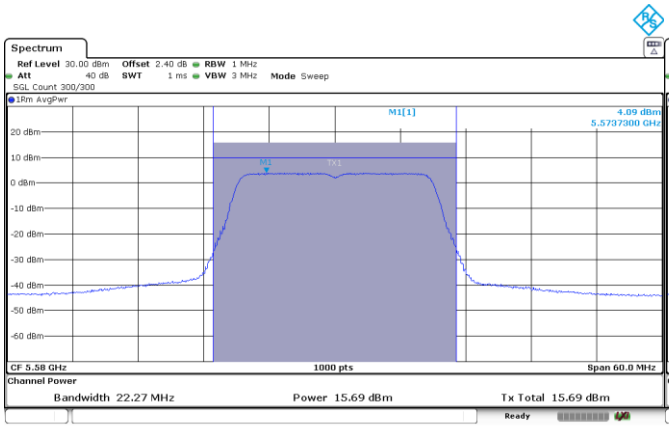


CORE 1

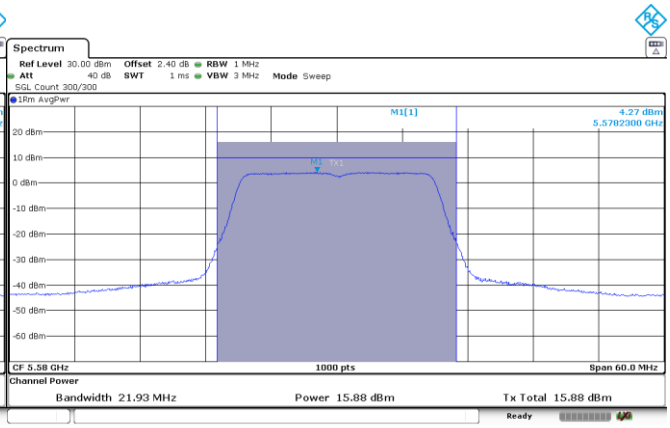


CORE 2

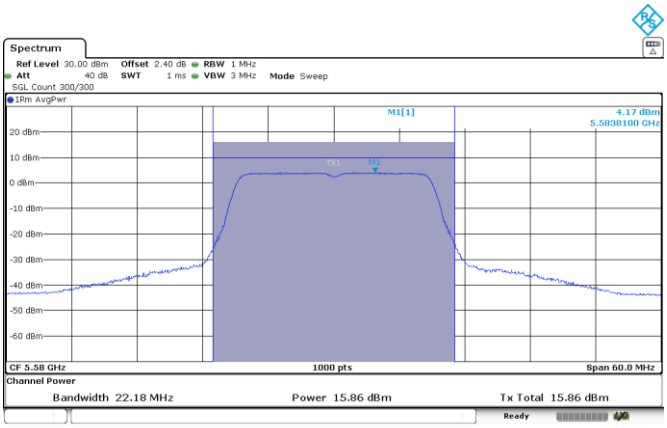
Channel 116



CORE 0

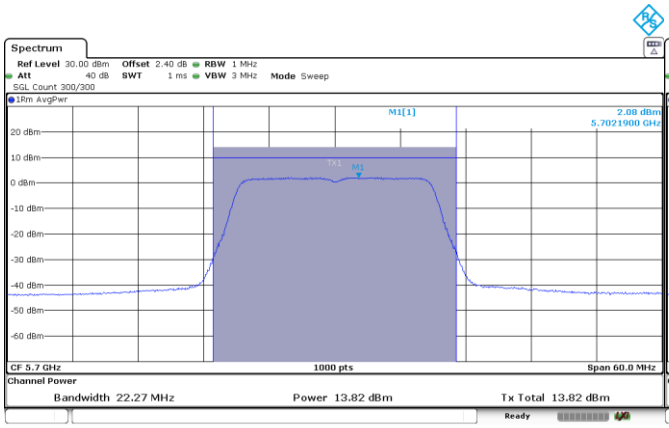


CORE 1

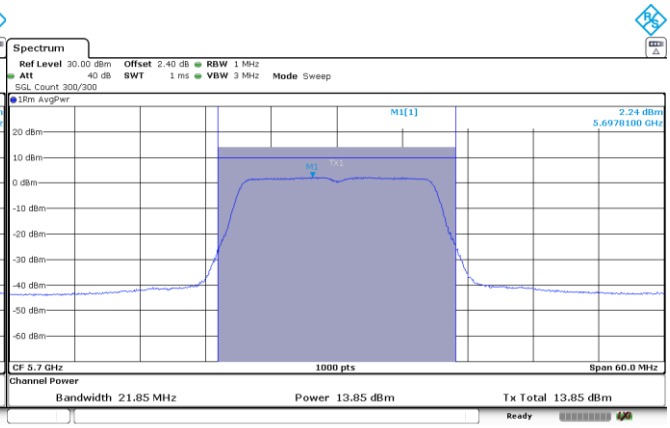


CORE 2

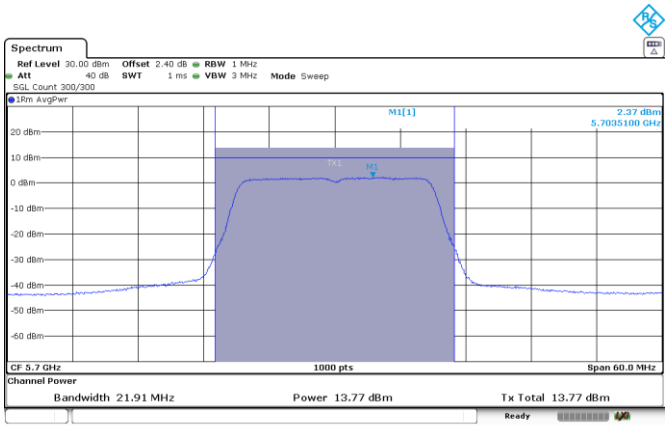
Channel 140



CORE 0



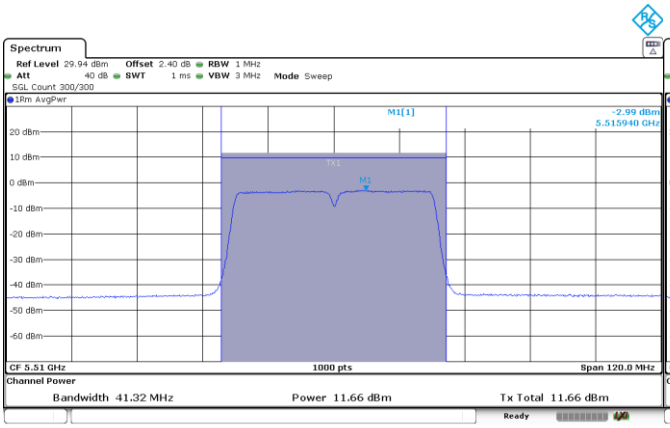
CORE 1



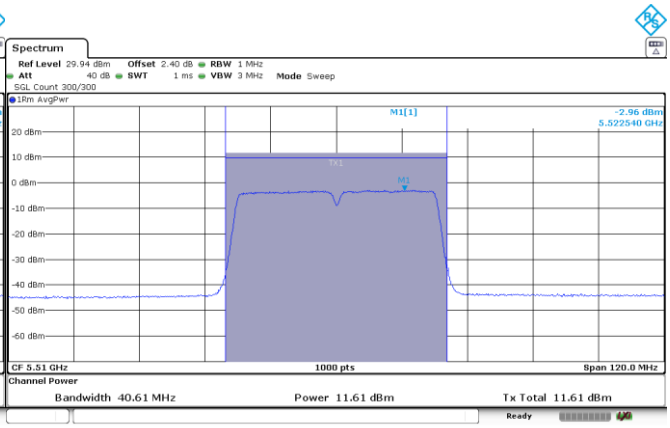
CORE 2

Mode : 802.11n HT40 – SDM – 40MHz – MIMO – CORE 0 & CORE 1 & CORE 2

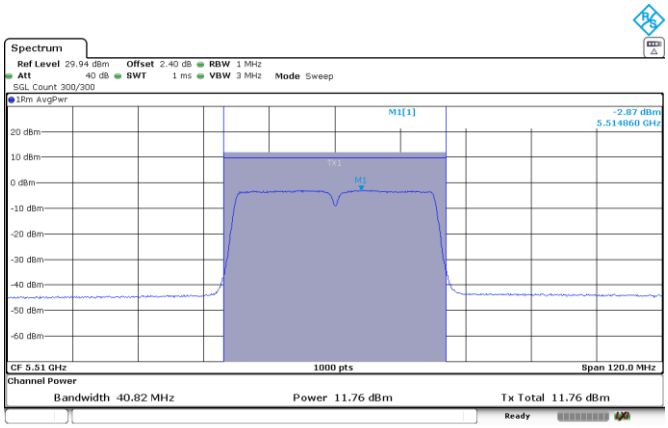
Channel 102



CORE 0



CORE 1



CORE 2