

Frequency Range GHz = [17, 40]

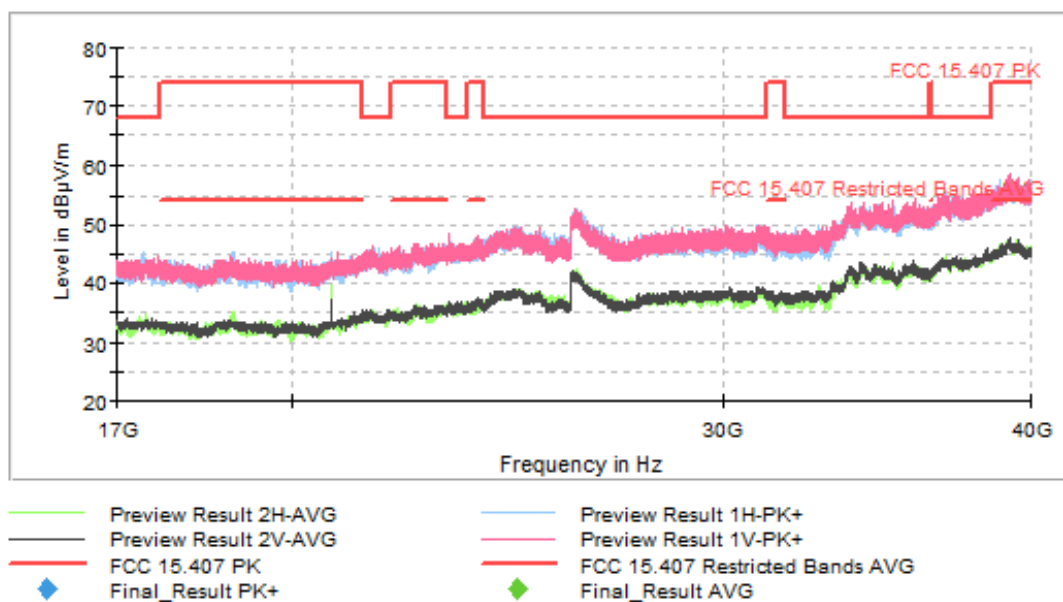
The spurious frequencies detected do not depend on the channel neither the modulation

Results

No spurious frequencies detected at less than 20 dB below the limit.

Verdict

Pass



RSS-247. 6.3.2 / KDB Sect. 7.8. DFS In Service Monitoring CCTT & NOP

Limits

RSS-247 6.3.2 a. In-service monitoring: an LE-LAN device shall be able to monitor the operating channel to check that a co-channel radar has not moved or started operation within range of the LE-LAN device. During in-service monitoring, the LE-LAN radar detection function continuously searches for radar signals between normal LE-LAN transmissions.

RSS-247 6.3.2 e. Non-occupancy period: a channel that has been flagged as containing a radar signal, either by a channel availability check or in-service monitoring, is subject to a 30-minute non-occupancy period where the channel cannot be used by the LE-LAN device. The non-occupancy period starts from the time that the radar signal is detected

Results CCTT

Freq (MHz)	Rdr Sgnl	BW (MHz)	CCTT Found	CCTT Tx Time (ms)
5530.00000	0	80	167	2.544
5530.00000	0	80	762	11.652

Result Non Operation Time

Freq (MHz)	Rdr Sgnl	BW (MHz)	NOP Found	NOP Time (s)
5530.00000	0	80	0	0

Verdict

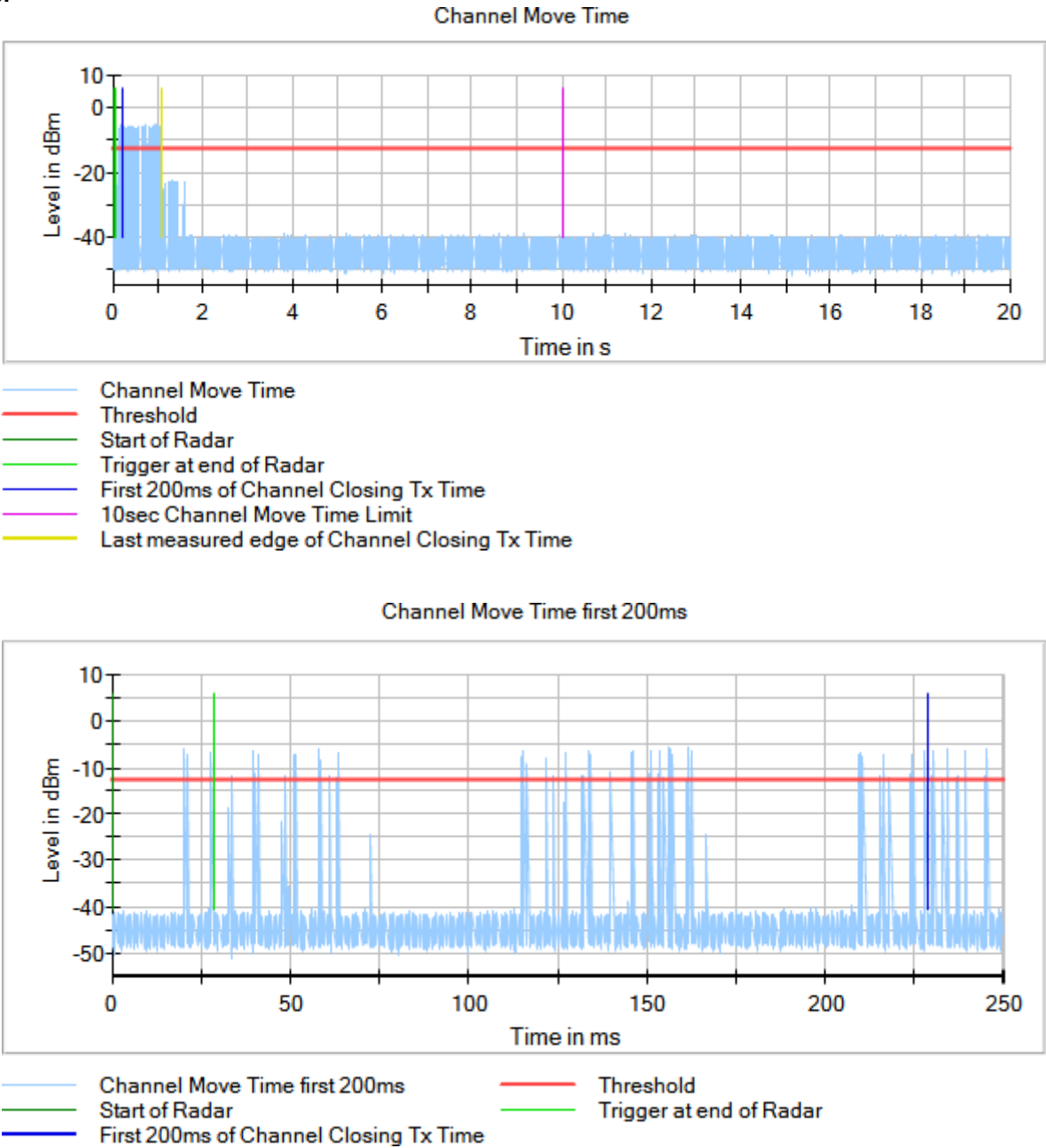
Pass

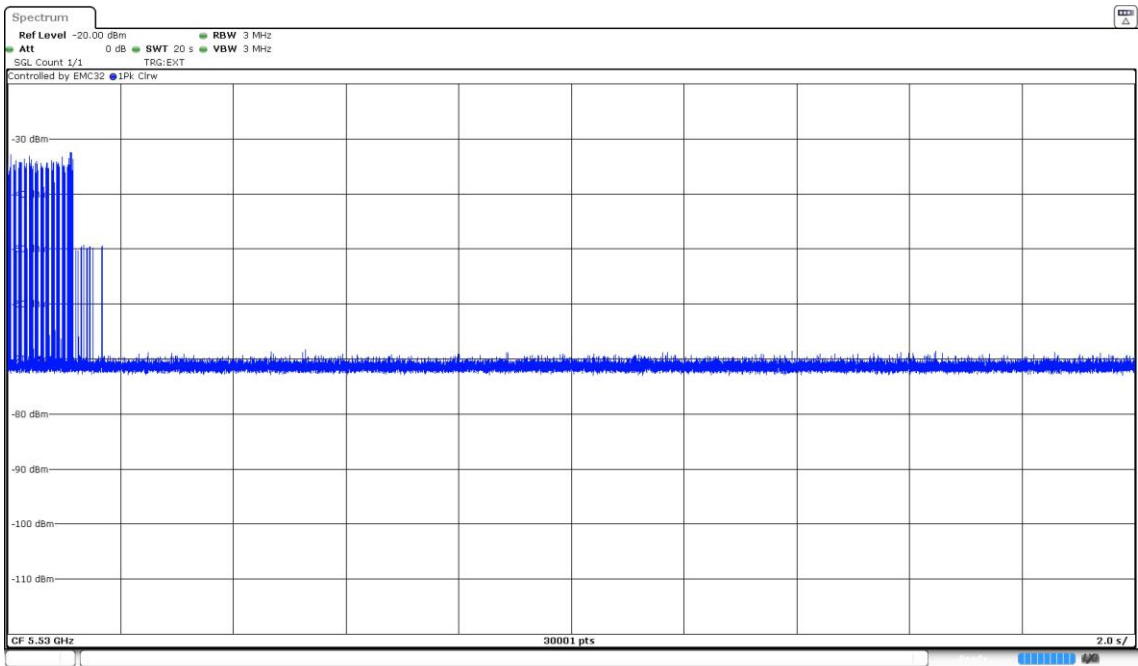
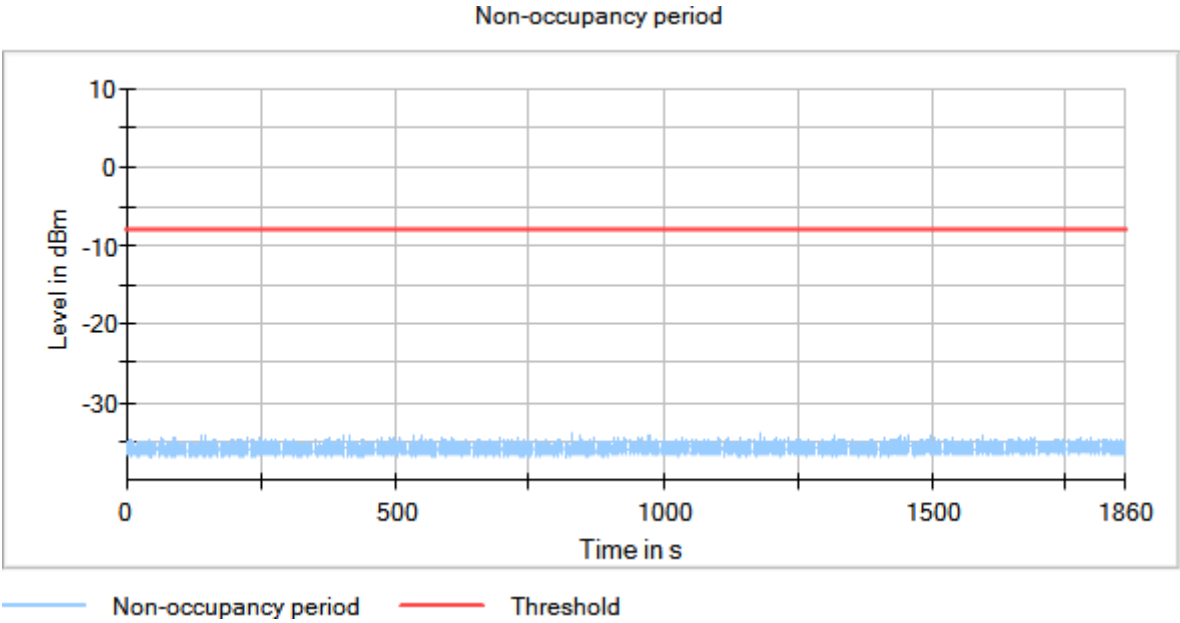
Attachments

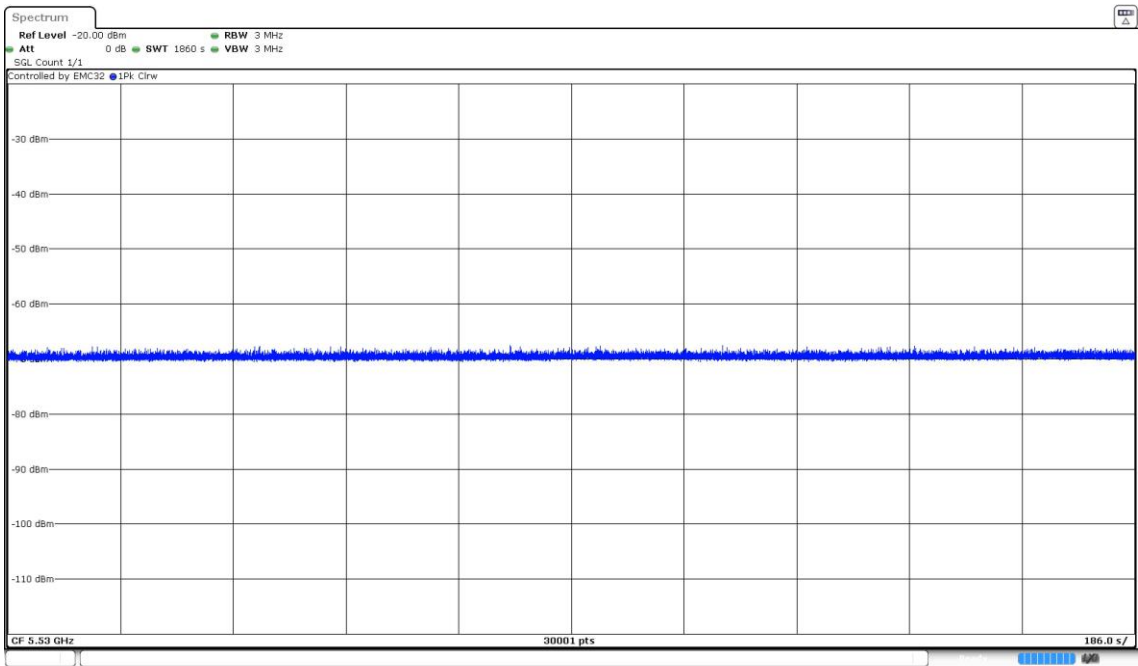
Frequency MHz = 5530.00000 Radar test signal = 0

Bandwidth MHz = 80

Images:







Appendix D: Test result for 5.725 GHz - 5.85GHz

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TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal: 12 V DC
Type of Power Supply: External power supply

ANTENNA (*):

Type of Antenna: External
Maximum Declared Antenna Gain: 1.06

TEST FREQUENCIES (*):

Technology Tested:	WLAN (IEEE 802.11 n2040 / ac80 1x1) / U-NII-3	
	802.11 n HT20: MCS0 to MCS23 (SISO)	
	802.11 n HT40: MCS0 to MCS23 (SISO)	
	802.11 ac VHT80: MCS0 to MCS9 (SISO)	
Setting of cores / ports:	WLAN1	
Beamforming:	No.	
Frequency Range:	5725 MHz to 5850 MHz	
Power Settings:	Conducted tests: 19 dBm. Radiated tests: 13 dBm.	
Operating Channel Bandwidth:	20 MHz	
Transmission Channels:	Channel	Channel Frequency (MHz)
	Low (149)	5745
	Middle (157)	5785
	High (165)	5825
Operating Channel Bandwidth:	40 MHz	
Transmission Channels:	Channel	Channel Frequency (MHz)
	Low (151)	5755
	High (159)	5795
Operating Channel Bandwidth:	80 MHz	
Transmission Channels:	Single (155)	5775

POWER SETTING (*):

For 802.11 a, the power level is always 10 dBm and the modulation group is 1.
For 802.11 n, the power level is always 10 dBm and the modulation group is 1.
For 802.11 ac, the power level is always 6 dBm and the modulation group is 1.

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:

- Continuously transmitting with a modulated carrier 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 on the lowest and highest channels at the rated power for the channel under test.

For all 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 instructions to configure the EUT. The customer supplied a document containing the setup instructions.

The worst cases for testing were identified for output power and spurious levels at the band edges which were selected based on preliminary testing that correspond to next data rates:

- 802.11 a20: 6 Mbps
- 802.11 n HT20: MCS0
- 802.11 n HT40: MCS0
- 802.11 ac VHT20: MCS0
- 802.11 ac VHT40: MCS0
- 802.11 ac VHT80: MCS0

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the TS8997 using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-17 GHz Double ridge horn antenna) is situated at a distance of 3 m and at a distance of 1.5 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

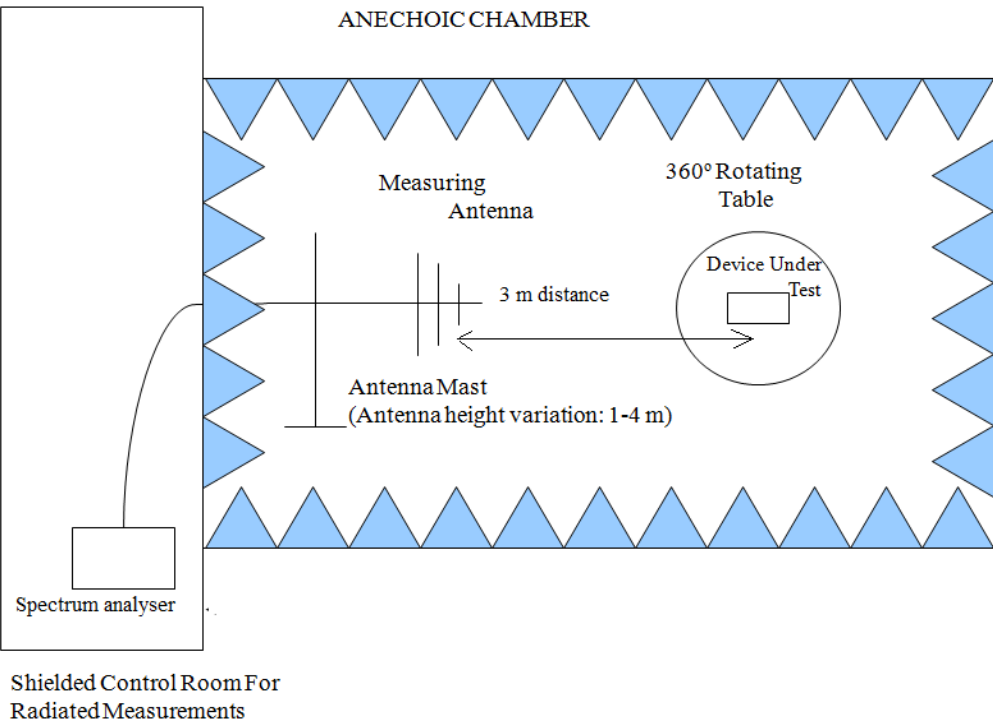
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

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

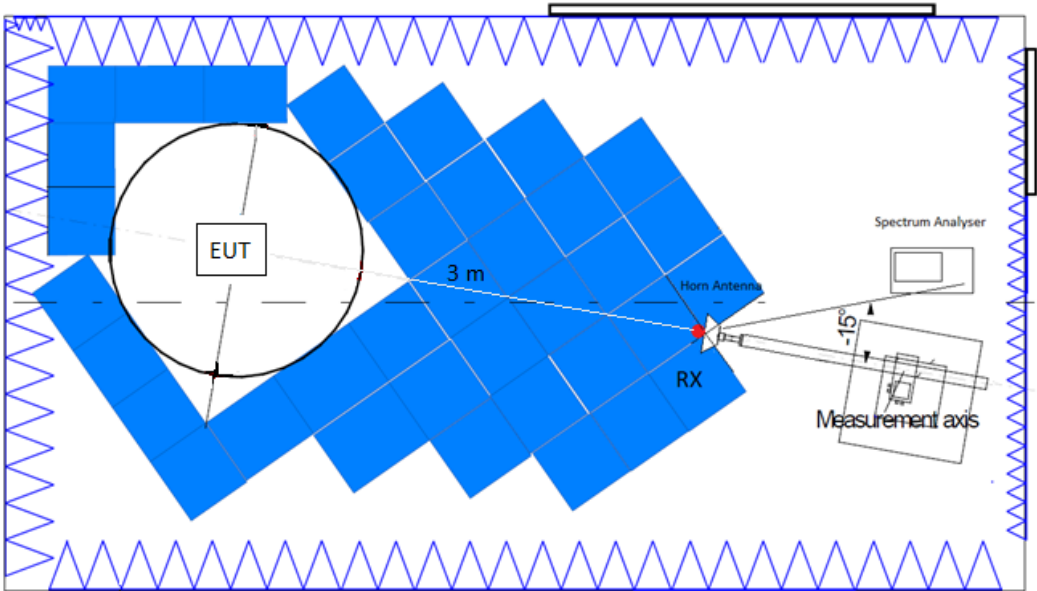
The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor and cable loss.

A resolution bandwidth/video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

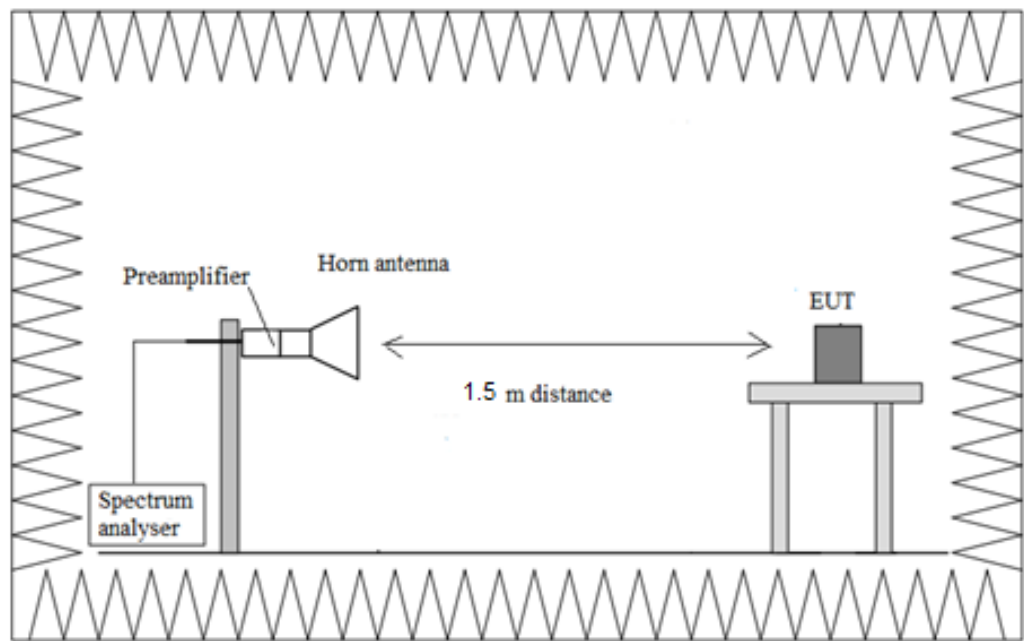
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17\text{ GHz}$:



RSS-247 6.2.4.1 / FCC 15.407 (a) (3) [Avcp] Maximum Conducted output power U-NII-3

Limits

* FCC 15.407: For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

* RSS-247: The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipointFootnote3 systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
1	5745.00000	No	4.70	5.76
	5785.00000		4.50	5.56
	5825.00000		4.22	5.28

Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
1	5755.00000	No	4.51	5.57
	5795.00000		4.48	5.54

Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
1	5745.00000	No	4.63	5.69
	5785.00000		4.66	5.72

Port	Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
	5825.00000		4.12	5.18

Modulation: 802.11ac VHT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
1	5745.00000	No	4.76	5.82
	5785.00000		4.51	5.57
	5825.00000		4.15	5.21

Modulation: 802.11ac VHT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
1	5755.00000	No	0.68	1.74
	5795.00000		0.32	1.38

Modulation: 802.11ac VHT80 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Avg Power (dBm)	Max EIRP (dBm)
1	5775.00000	No	0.56	1.62

Verdict

Pass

RSS-247 6.2.4.1 / FCC 15.407 (a) (3) [Psd] Transmitter Maximum Power Spectral Density U-NII-3

Limits

* FCC 15.407: For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

* RSS-247: The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipointFootnote3 systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
1	5745.00000	No	5742.623762	-10.71
	5785.00000		5787.574257	-10.68
	5825.00000		5827.376238	-10.99

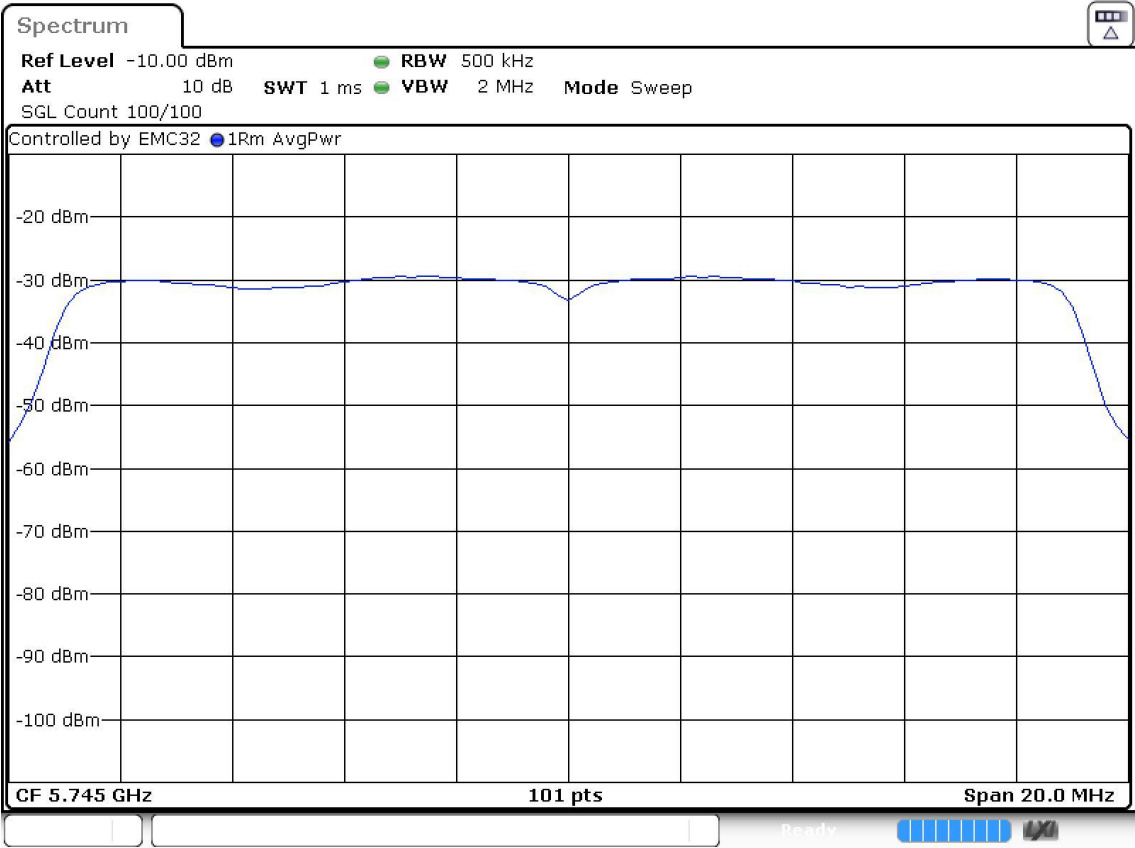
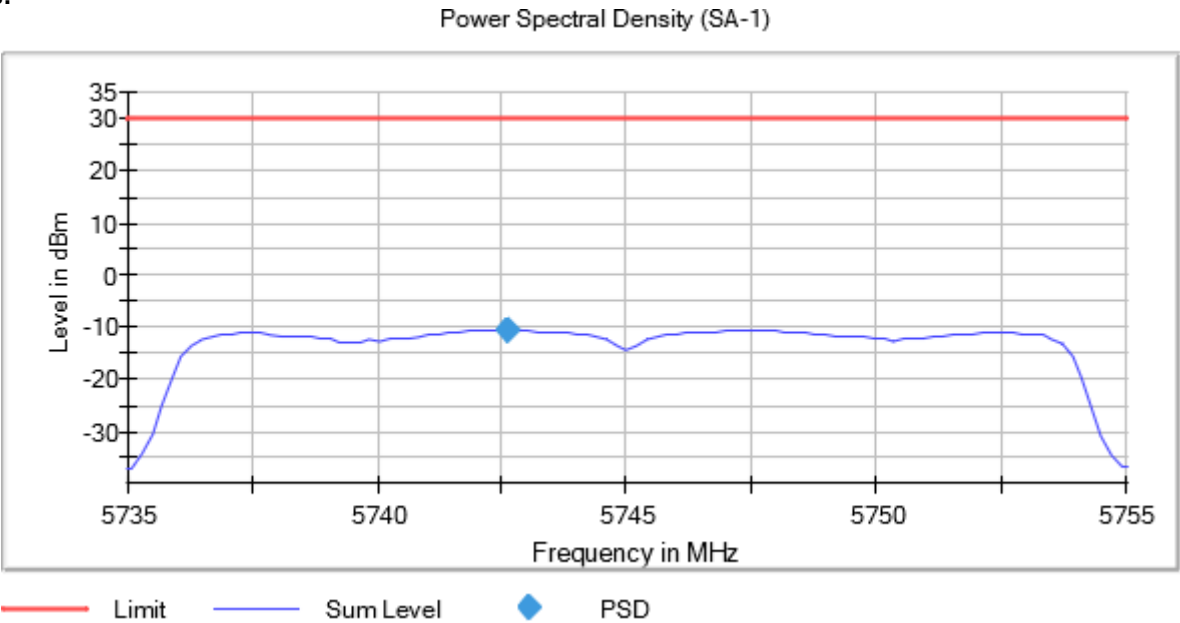
Verdict

Pass

Attachments

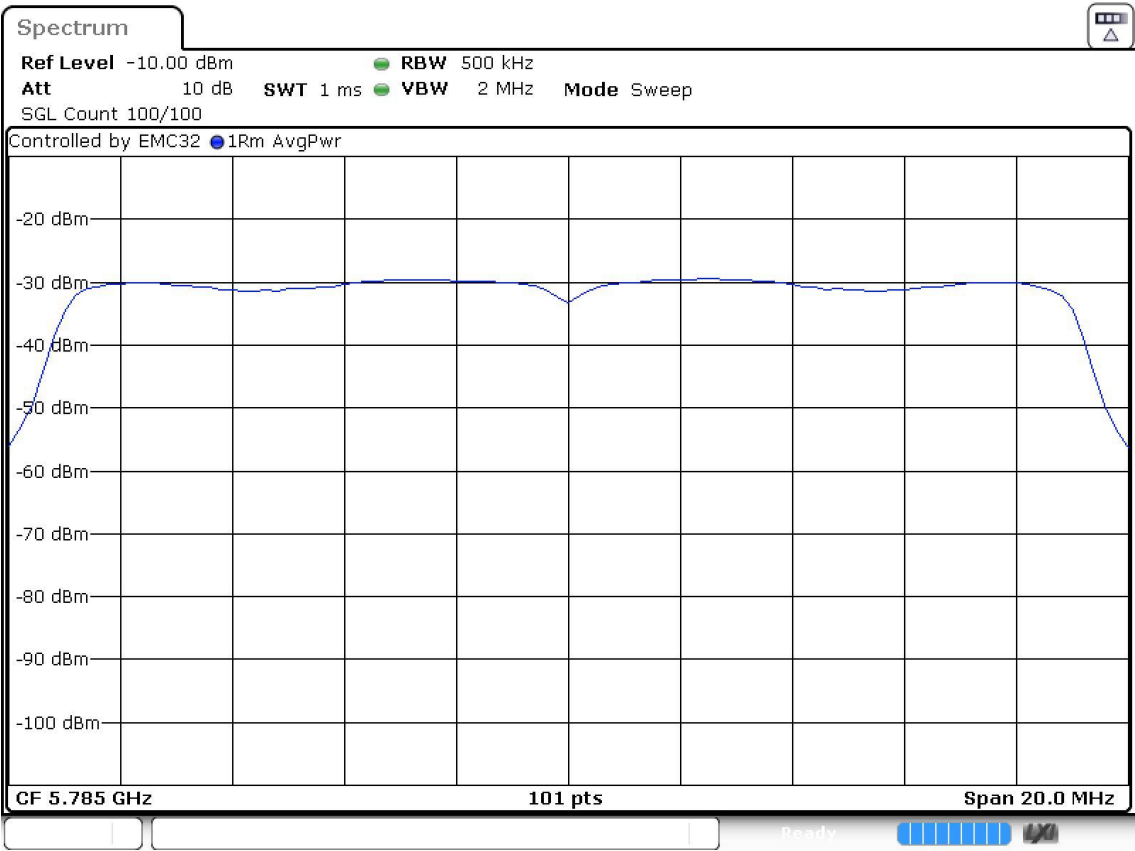
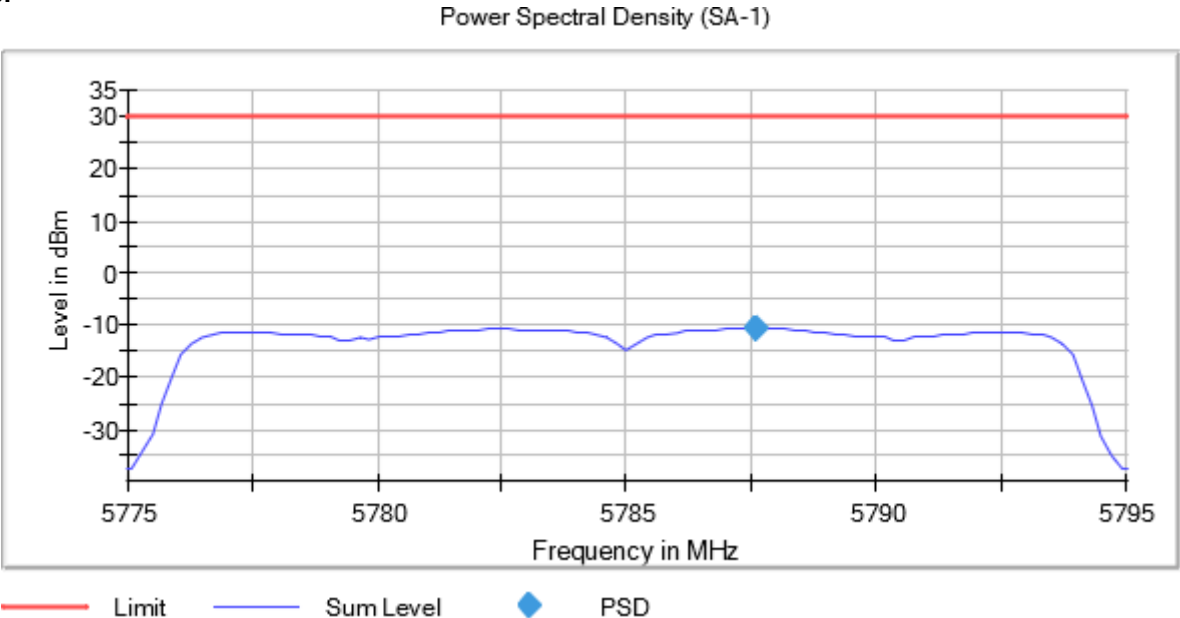
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Modulation = 802.11n HT20 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



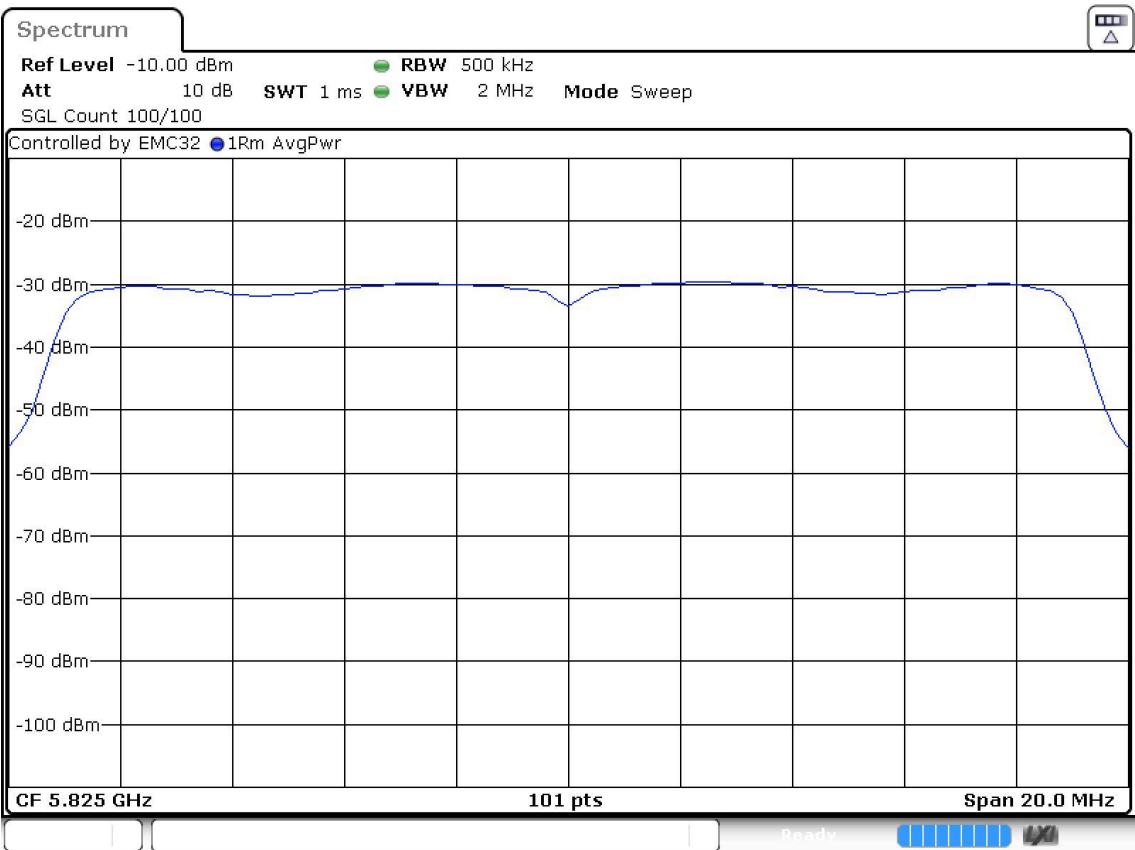
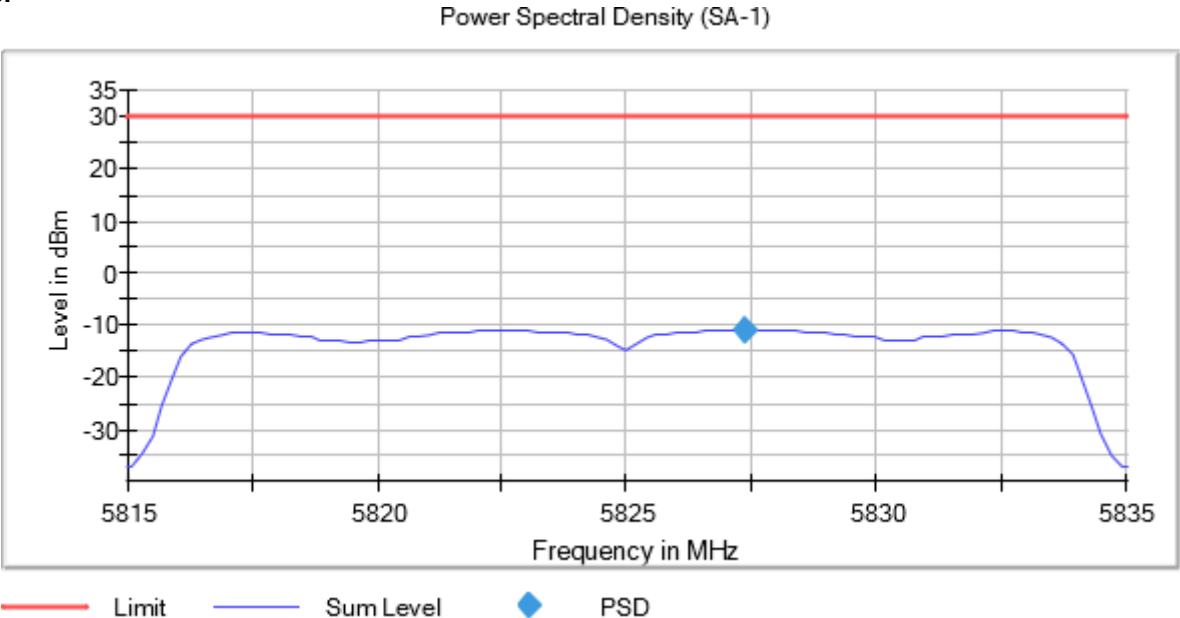
Active Port = 1
Frequency MHz = 5785.00000
Modulation = 802.11n HT20 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



Active Port = 1
Frequency MHz = 5825.00000
Modulation = 802.11n HT20 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
1	5755.00000	No	5761.375000	-13.96
	5795.00000		5789.875000	-13.78

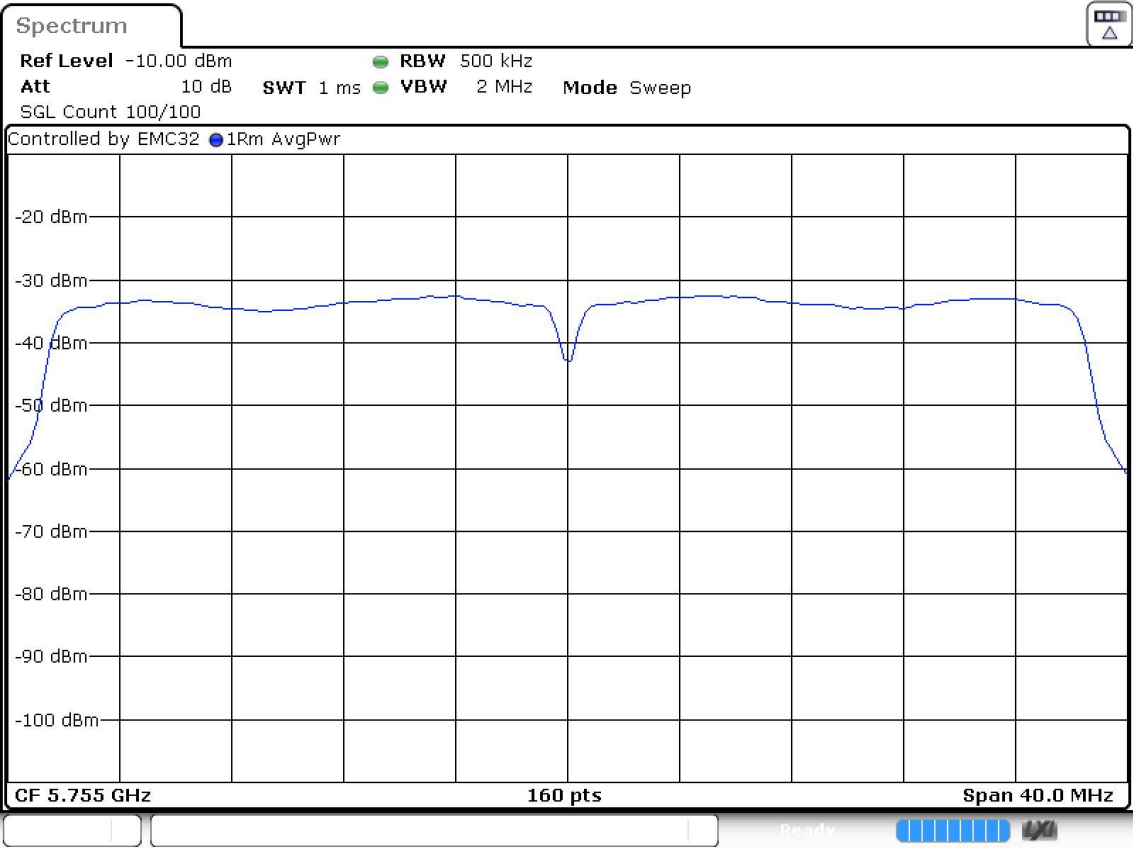
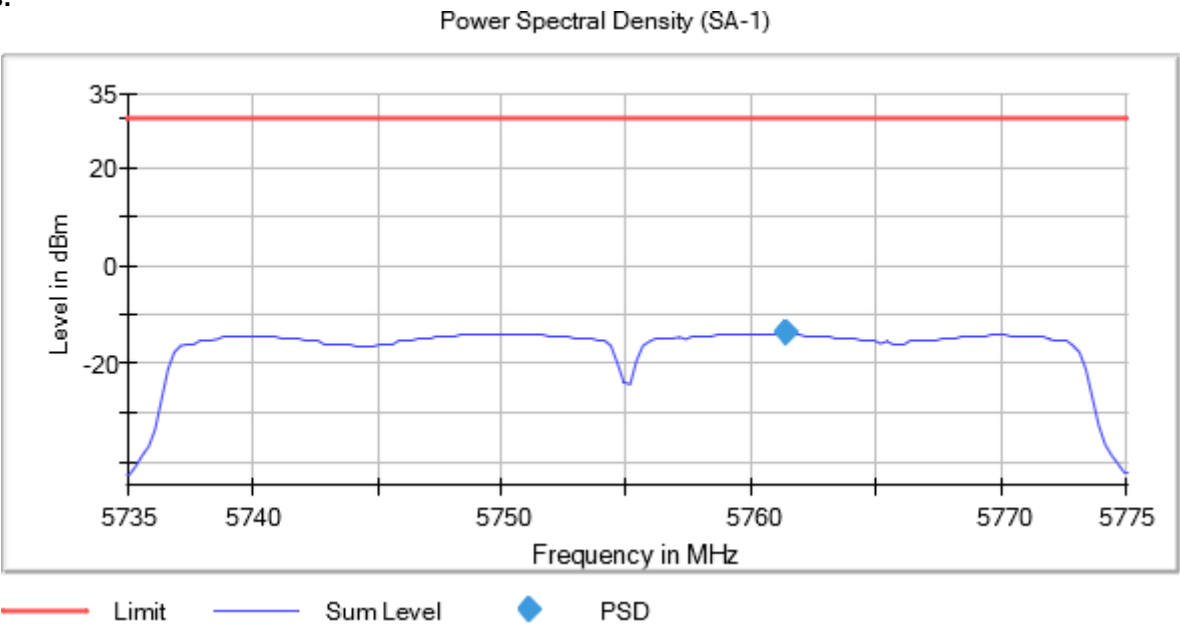
Verdict

Pass

Attachments

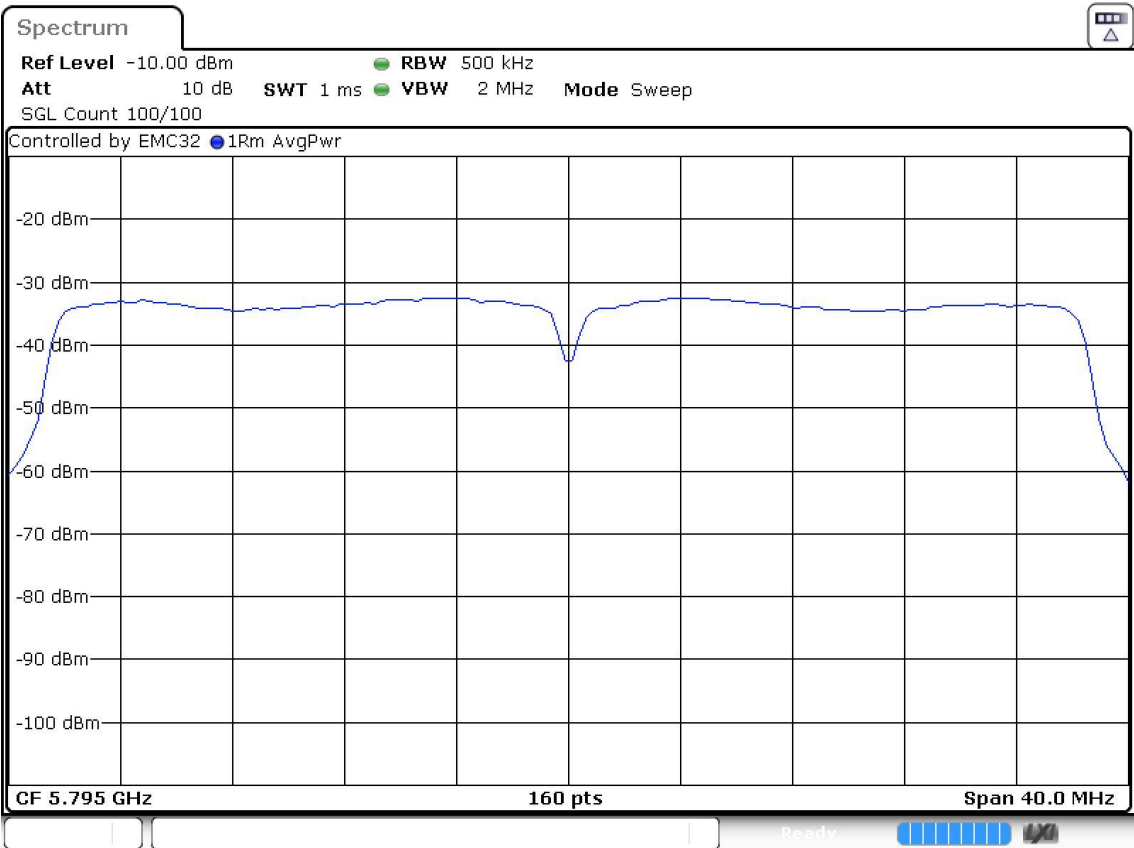
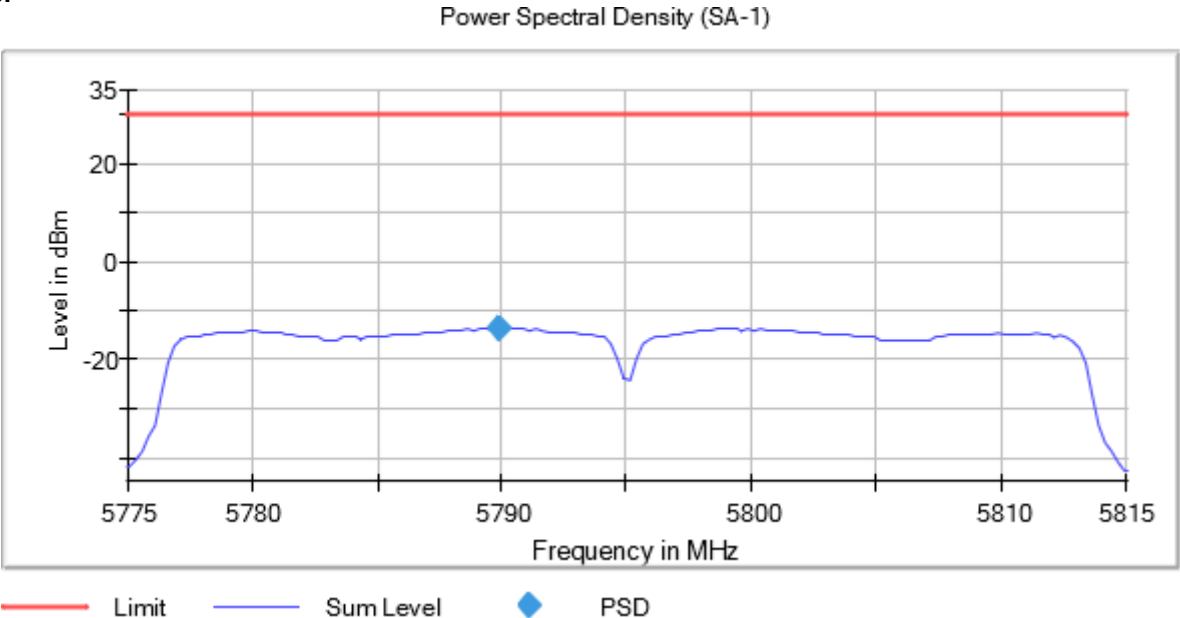
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Frequency MHz = 5755.00000
Modulation = 802.11n HT40 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



Active Port = 1
Frequency MHz = 5795.00000
Modulation = 802.11n HT40 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
1	5745.00000	No	5747.772277	-10.52
	5785.00000		5782.425743	-10.31
	5825.00000		5822.821782	-10.90

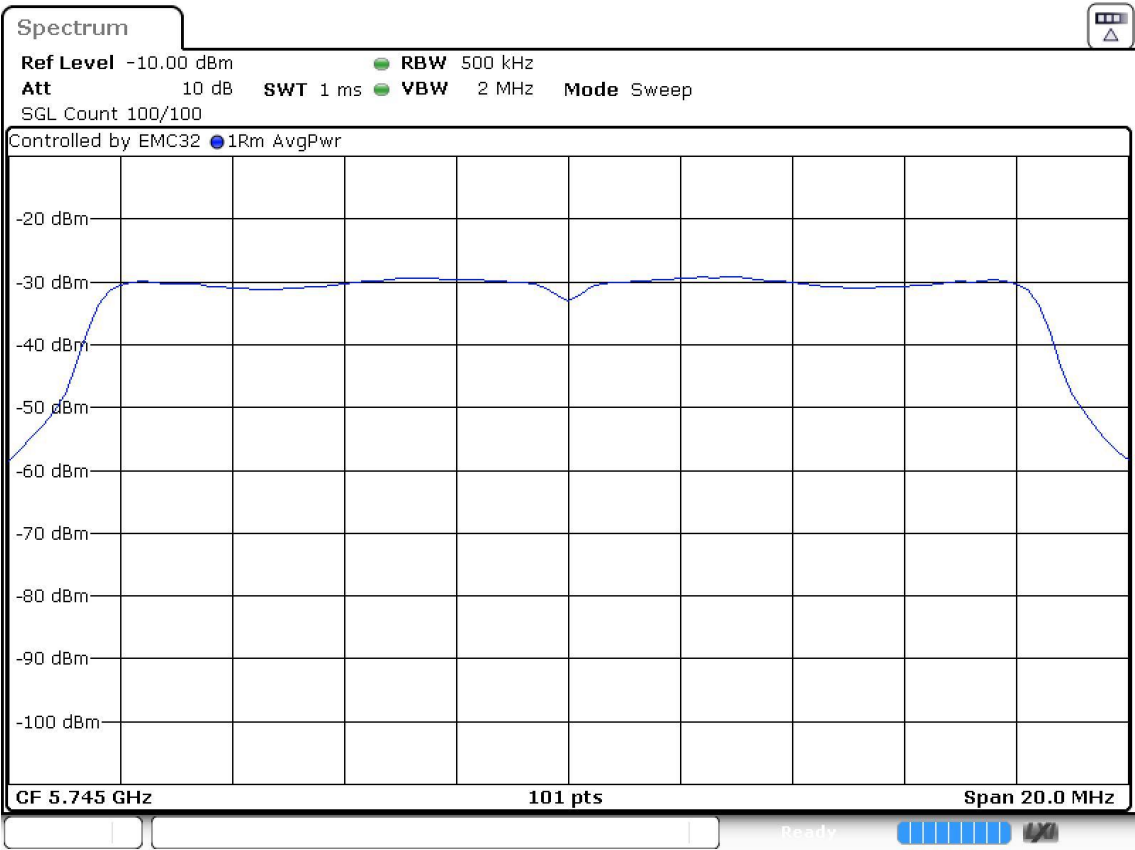
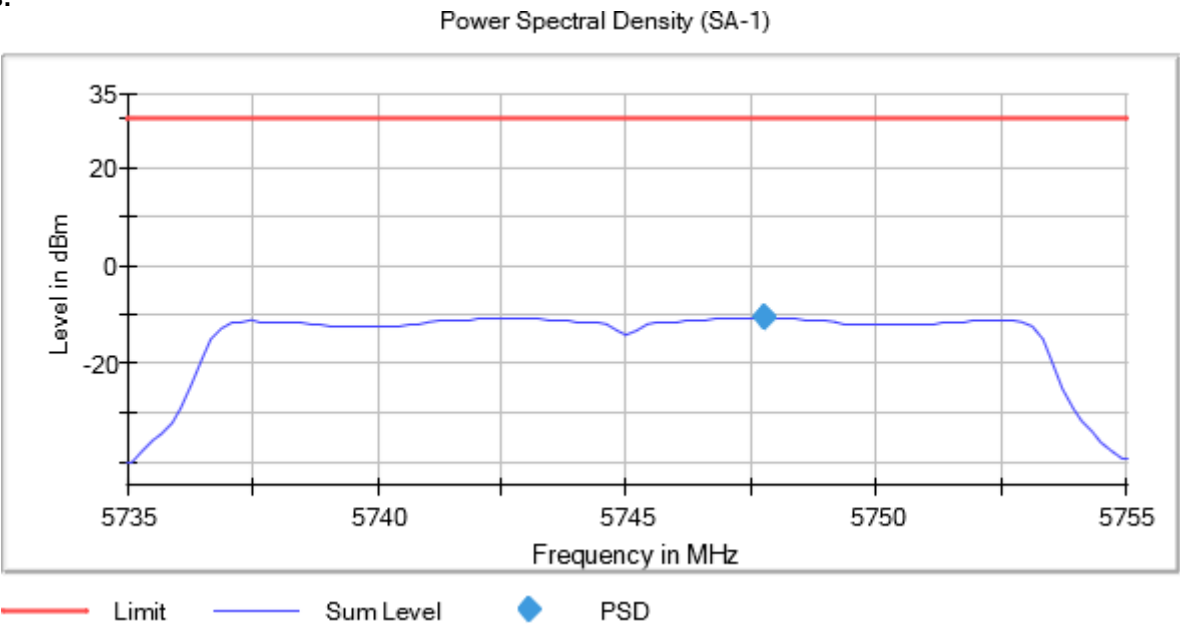
Verdict

Pass

Attachments

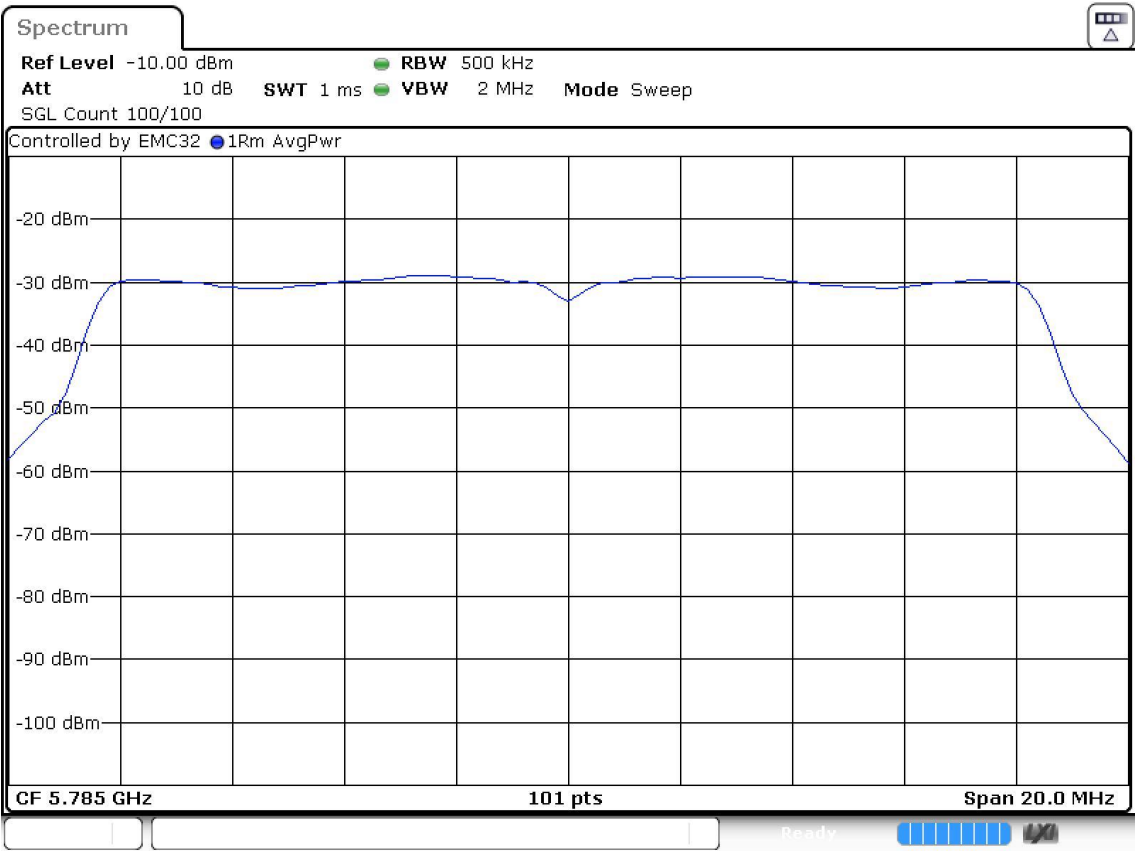
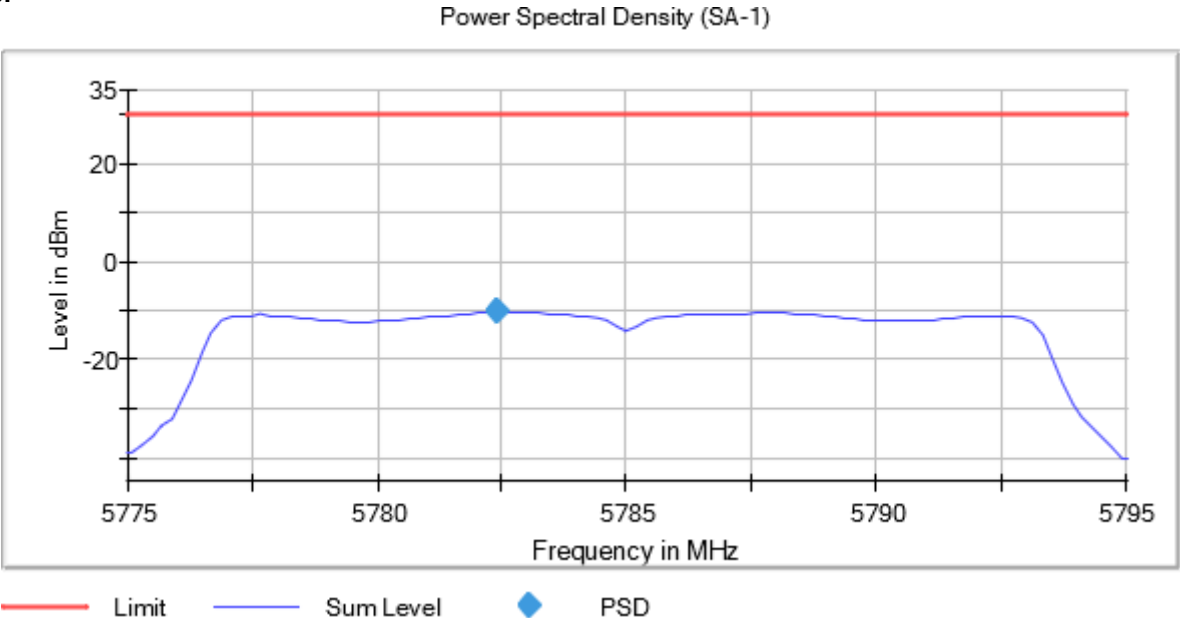
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Modulation = 802.11a (OFDM 6 Mbit/s) TPC = No
MIMO Mode = SISO

Images:



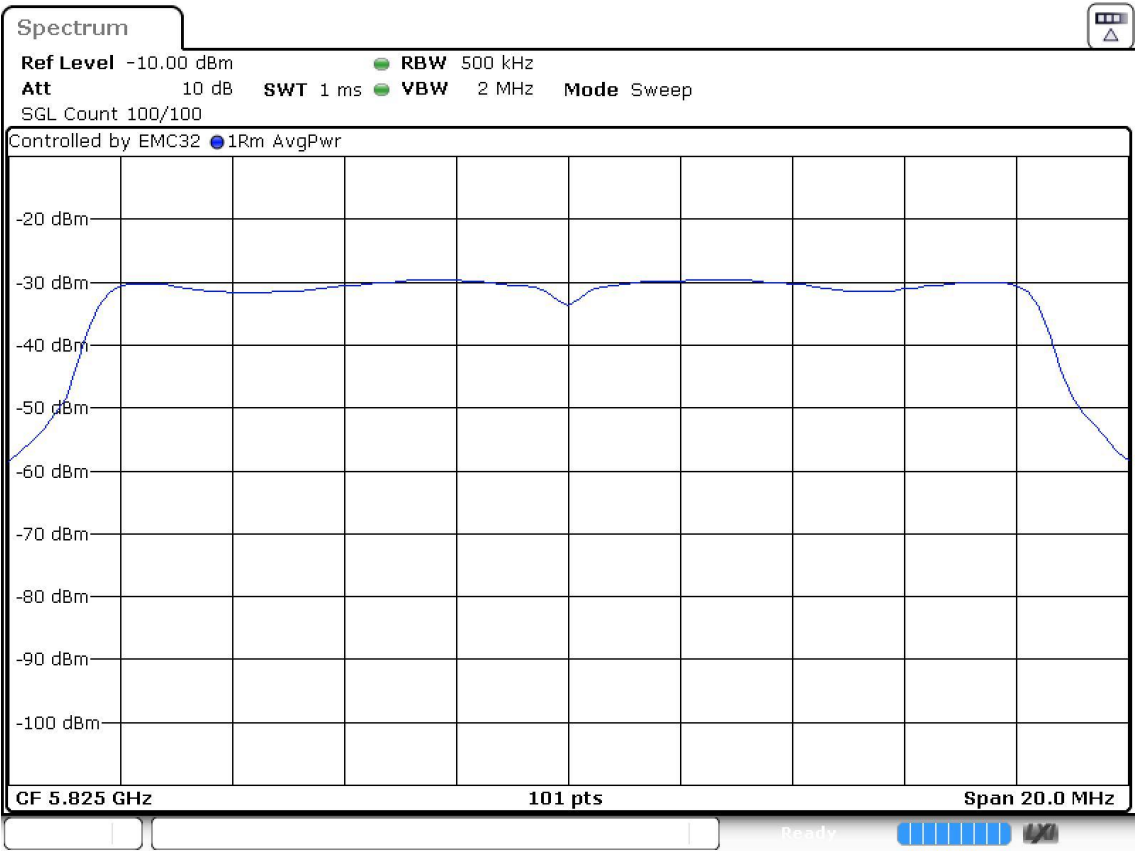
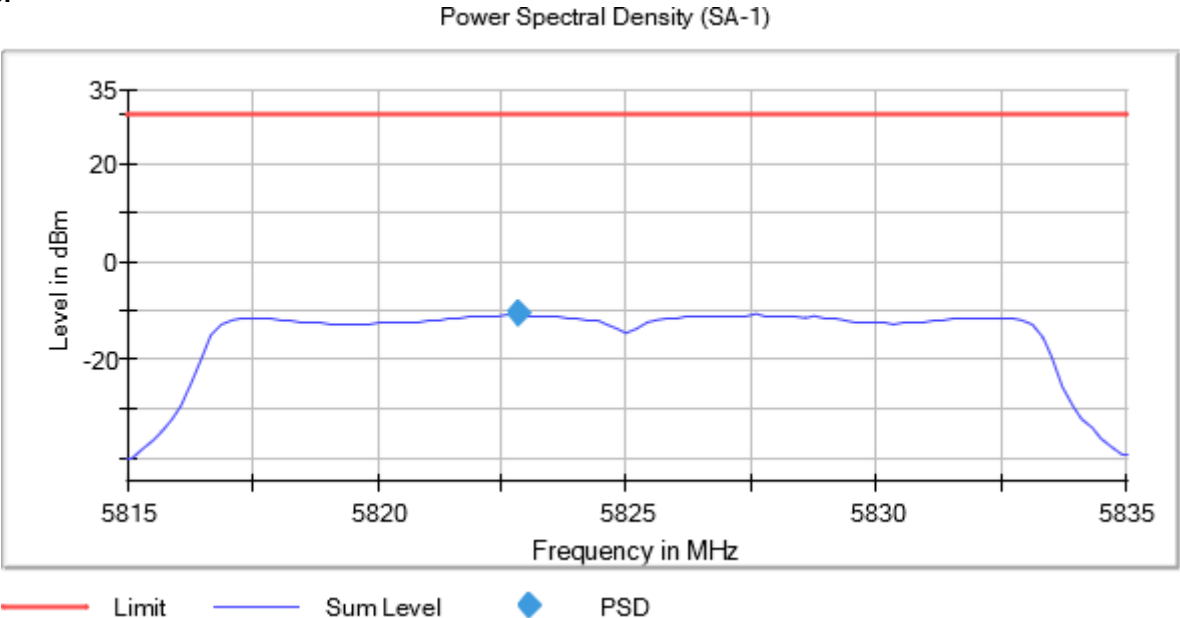
Active Port = 1 Frequency MHz = 5785.00000
Modulation = 802.11a (OFDM 6 Mbit/s) TPC = No
MIMO Mode = SISO

Images:



Active Port = 1
Frequency MHz = 5825.00000
Modulation = 802.11a (OFDM 6 Mbit/s) TPC = No
MIMO Mode = SISO

Images:



Modulation: 802.11ac VHT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
1	5745.00000	No	5747.376238	-10.51
	5785.00000		5787.376238	-10.56
	5825.00000		5827.376238	-10.91

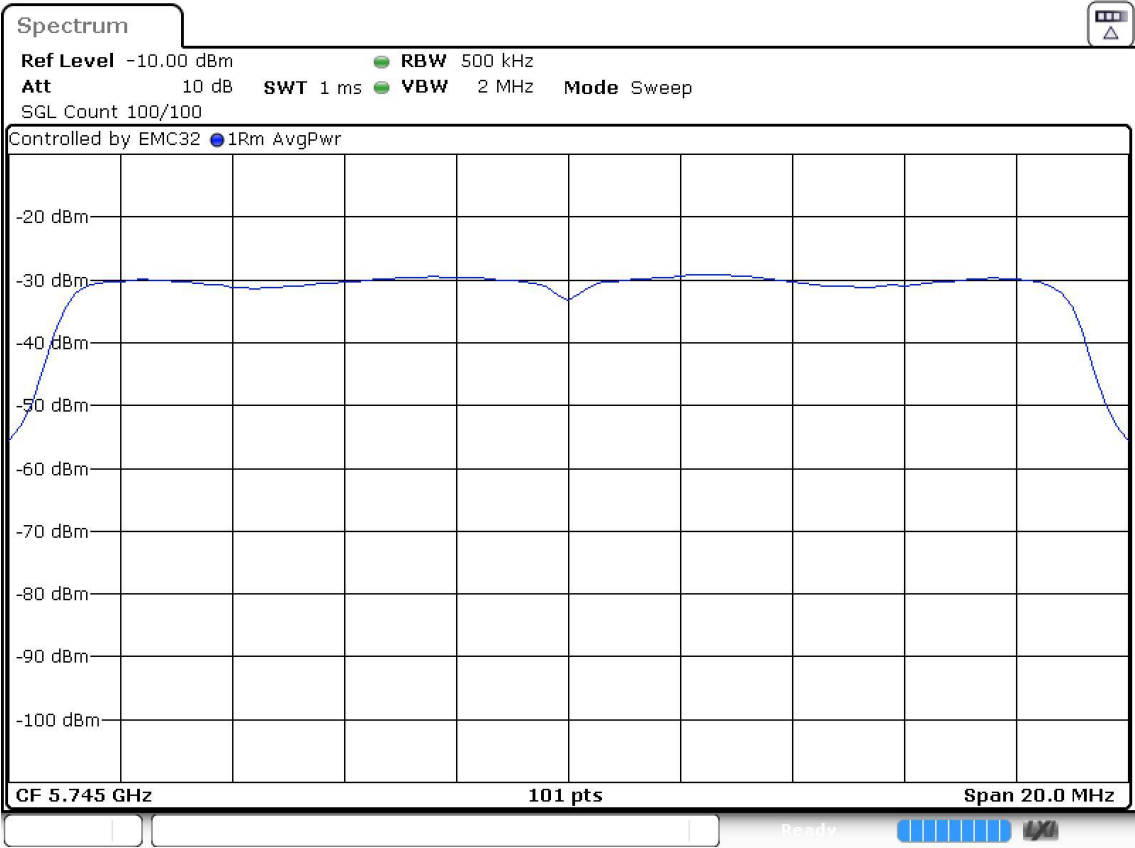
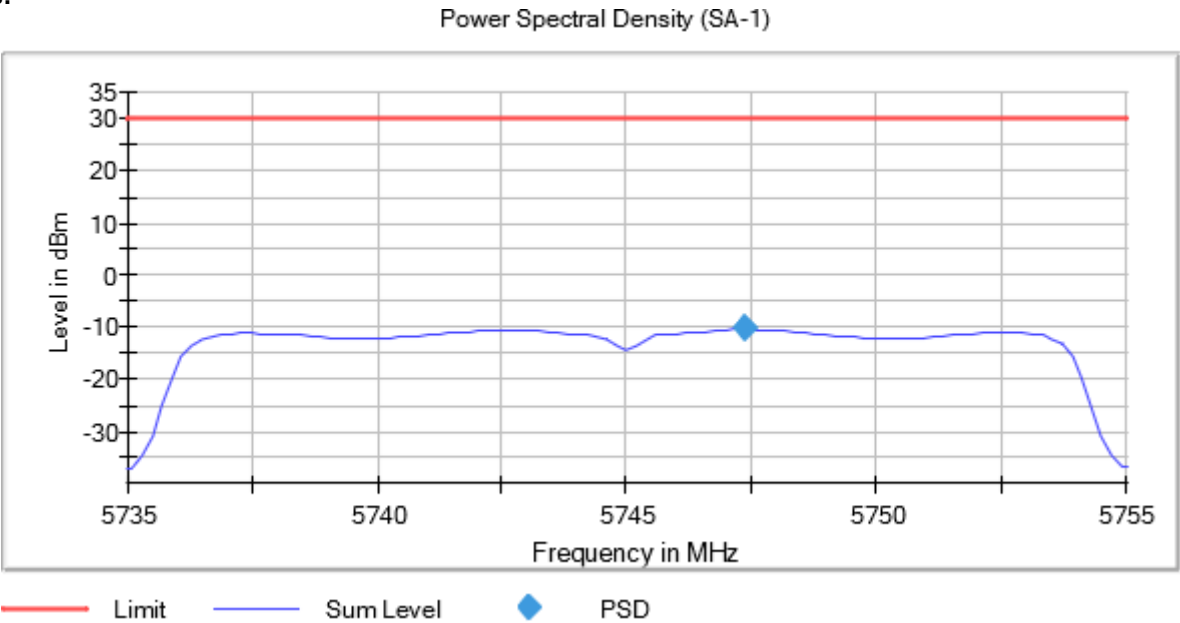
Verdict

Pass

Attachments

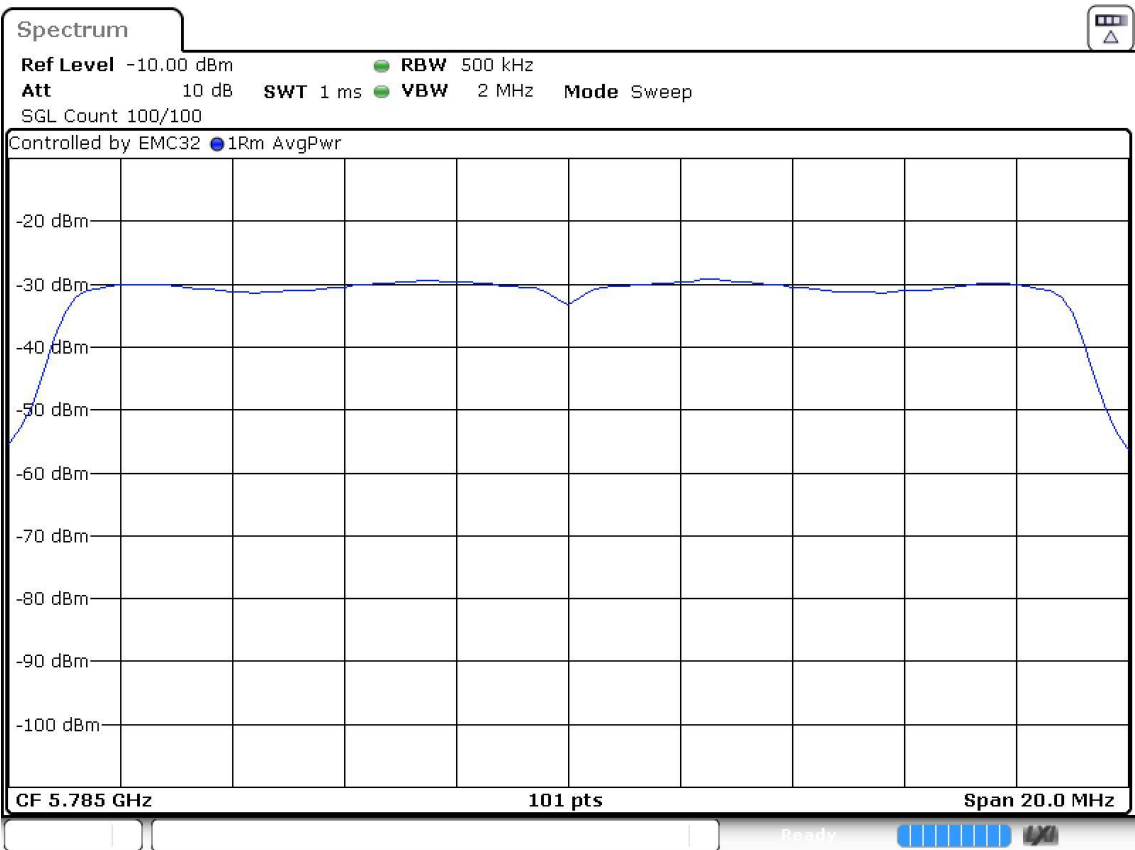
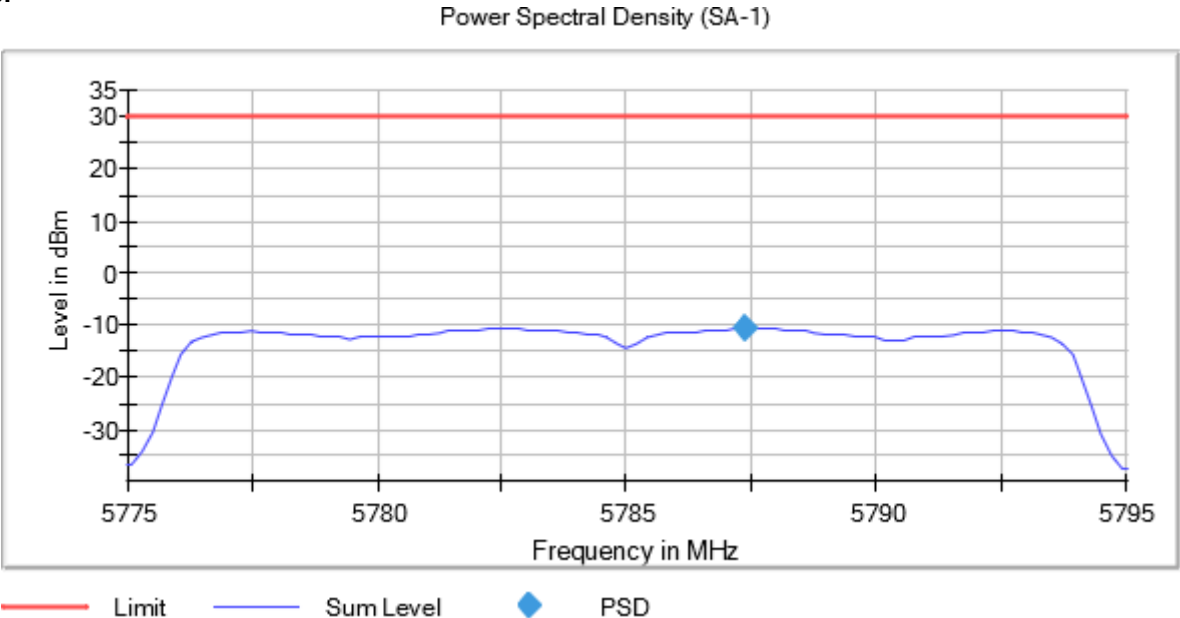
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Frequency MHz = 5745.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



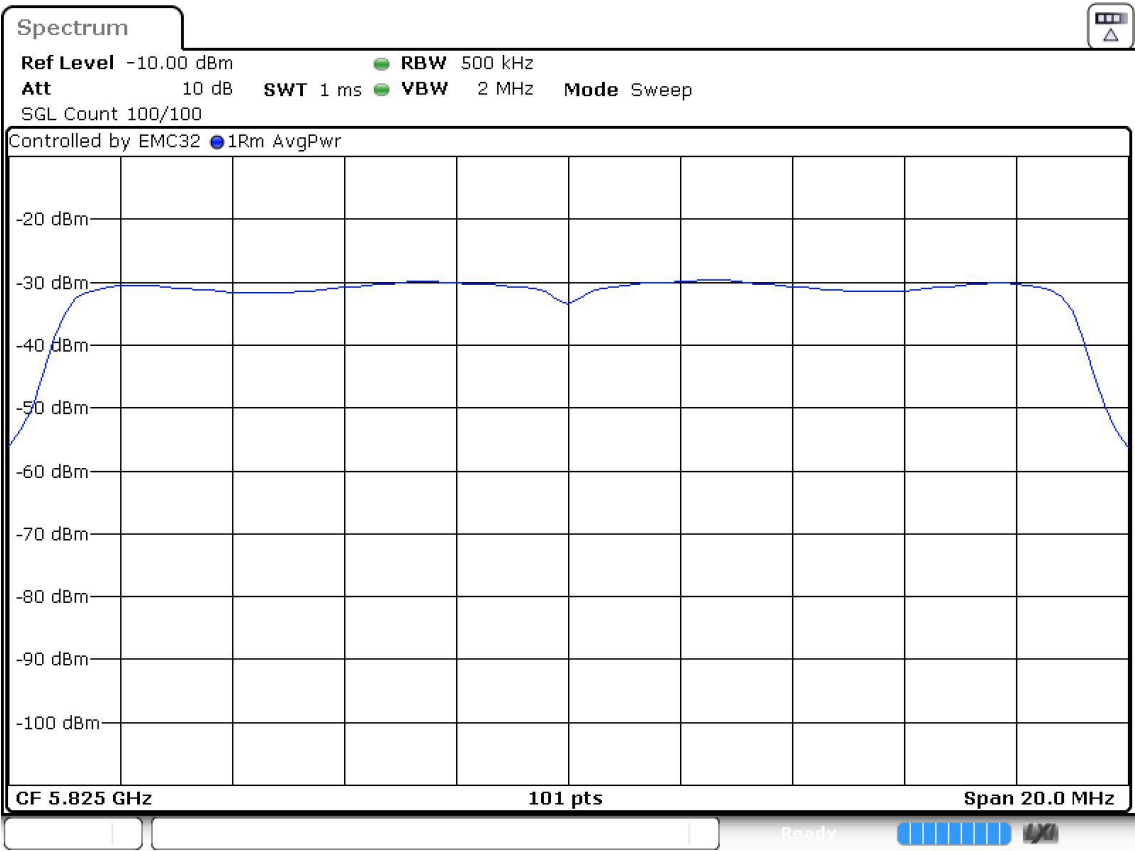
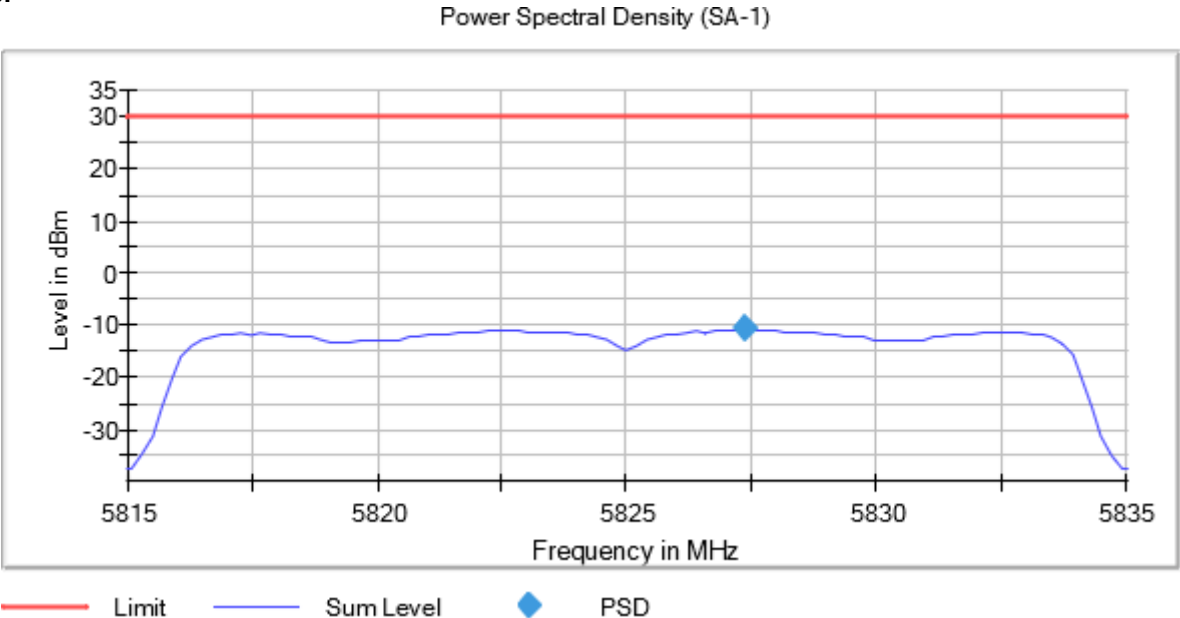
Active Port = 1
Frequency MHz = 5785.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



Active Port = 1
Frequency MHz = 5825.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



Modulation: 802.11ac VHT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
1	5755.00000	No	5759.875000	-17.68
	5795.00000		5789.875000	-18.03

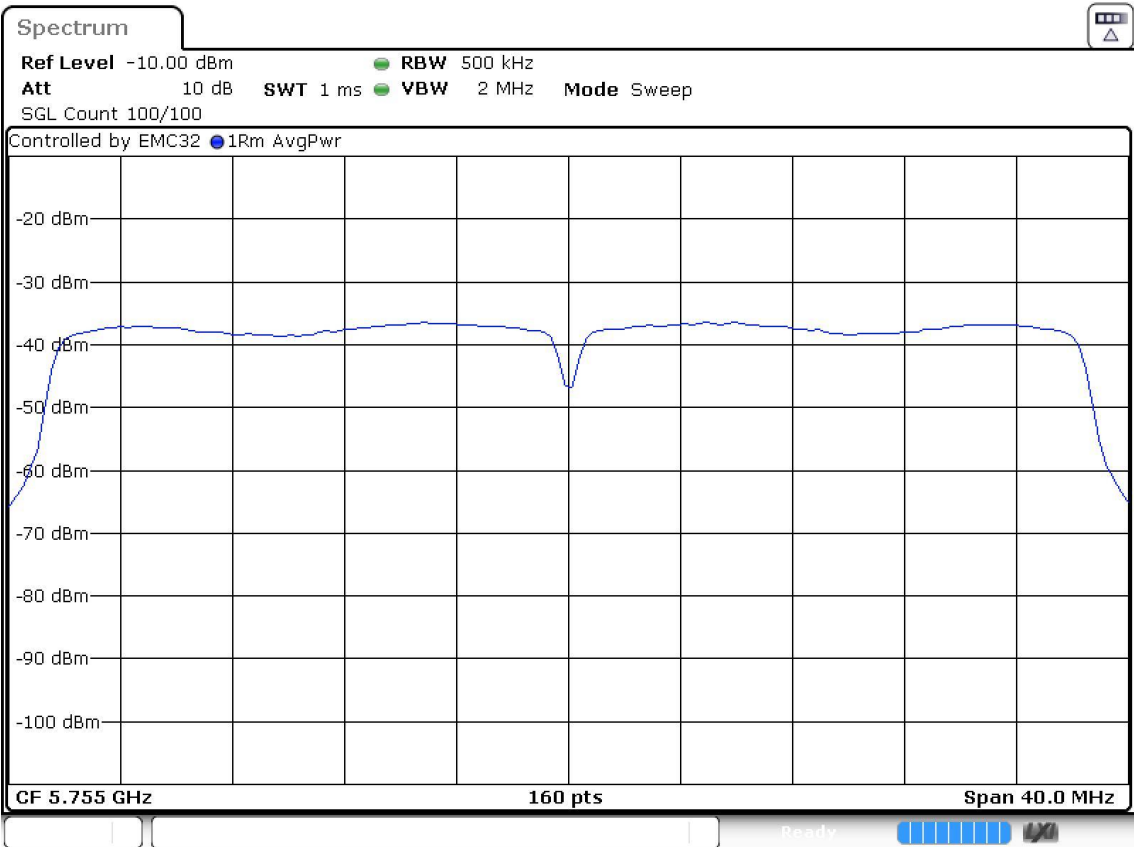
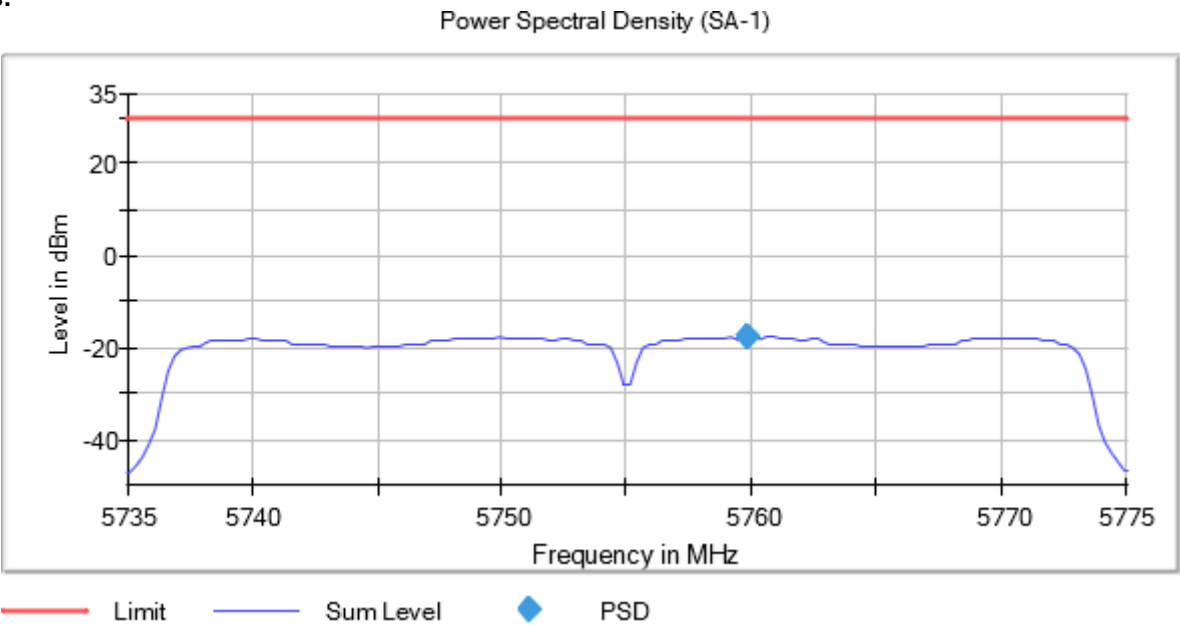
Verdict

Pass

Attachments

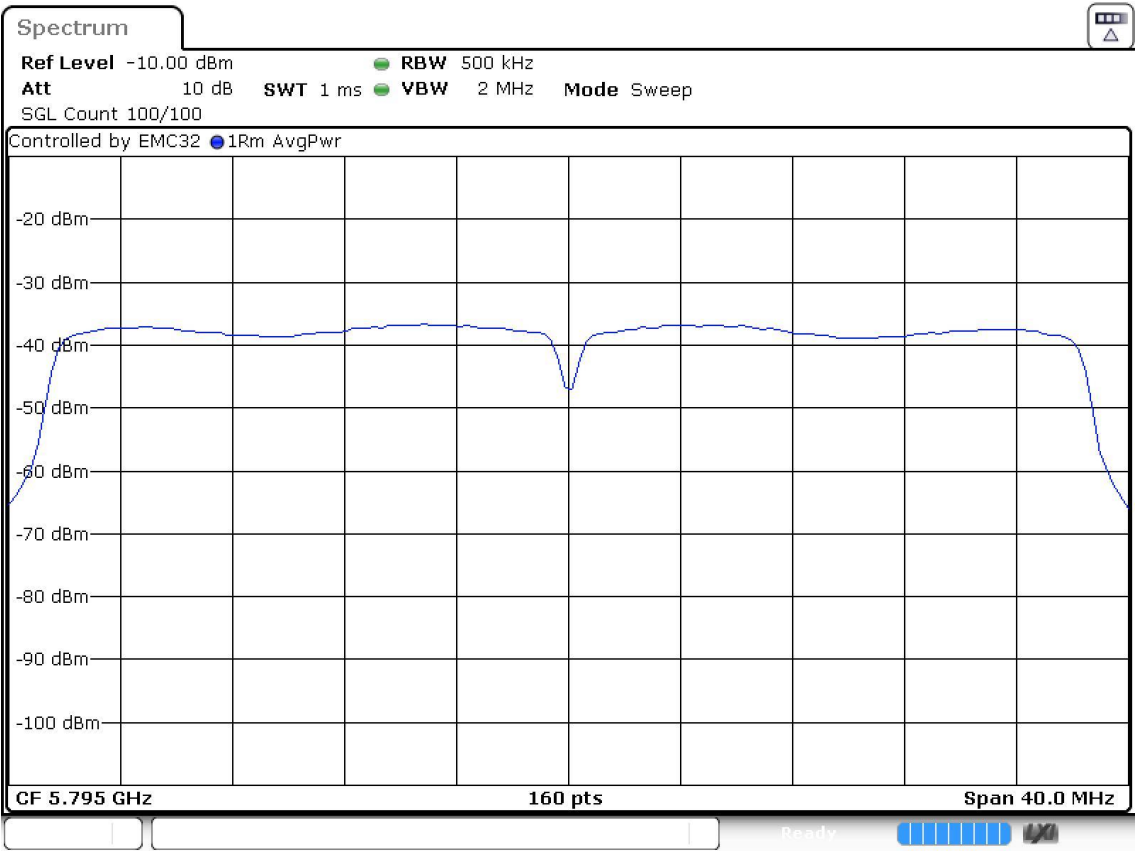
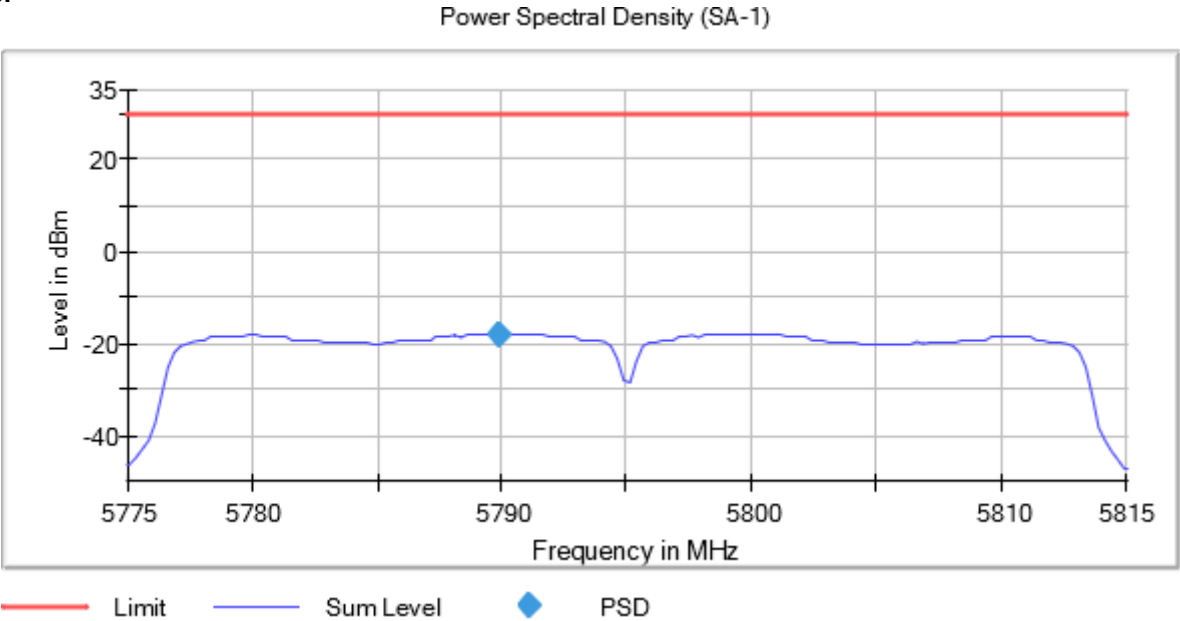
Active Port = 1
Frequency MHz = 5755.00000
Modulation = 802.11ac VHT40 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



Active Port = 1
Frequency MHz = 5795.00000
Modulation = 802.11ac VHT40 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



Modulation: 802.11ac VHT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
1	5775.00000	No	5772.875000	-21.36

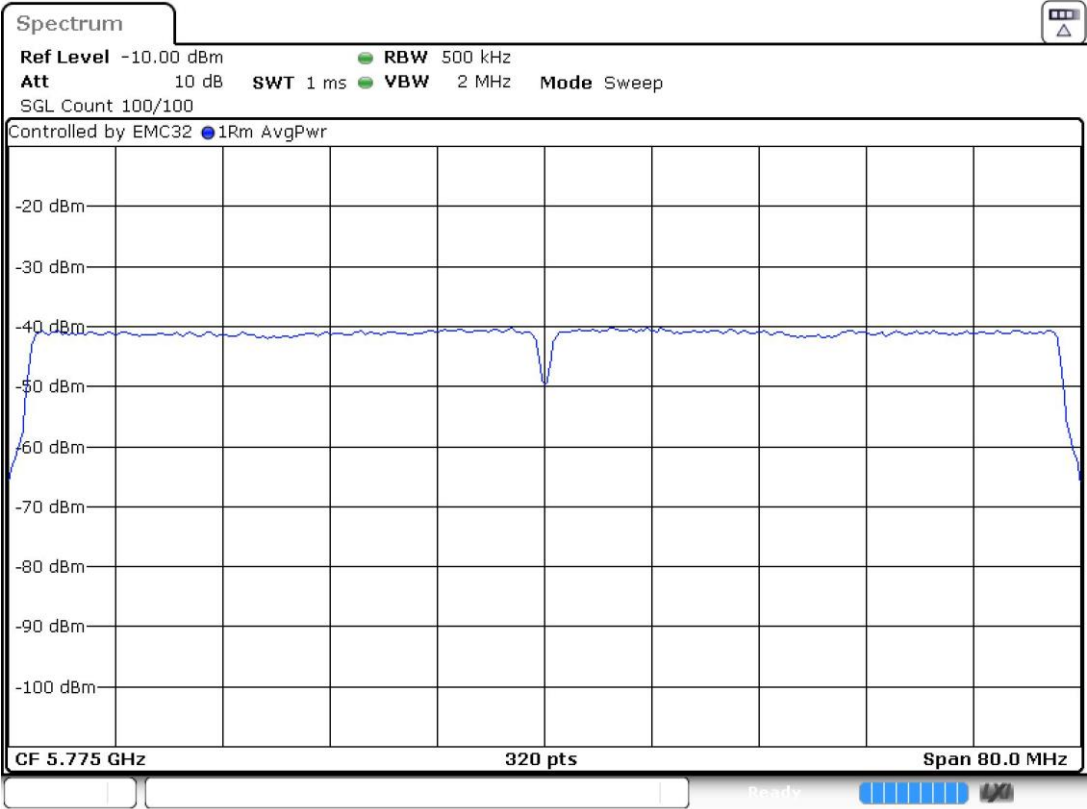
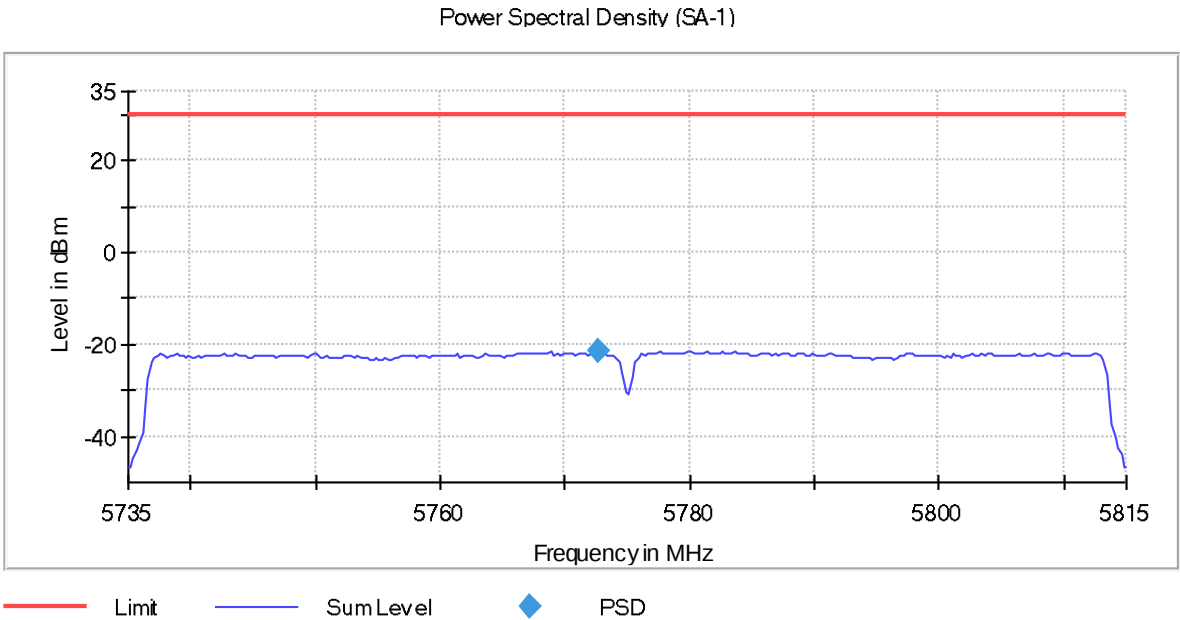
Verdict

Pass

Attachments

Active Port = 1
Frequency MHz = 5775.00000
Modulation = 802.11ac VHT80 (OFDM MCS0) TPC = No
MIMO Mode = SISO

Images:



RSS-247 6.2.4.1 / FCC 15.407 (e) [6dBw] 6 dB Emission Bandwidth

Limits

- * FCC 15.407: The minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
- * RSS-247: For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5745.00000	17.600
	5785.00000	17.600
	5825.00000	17.600

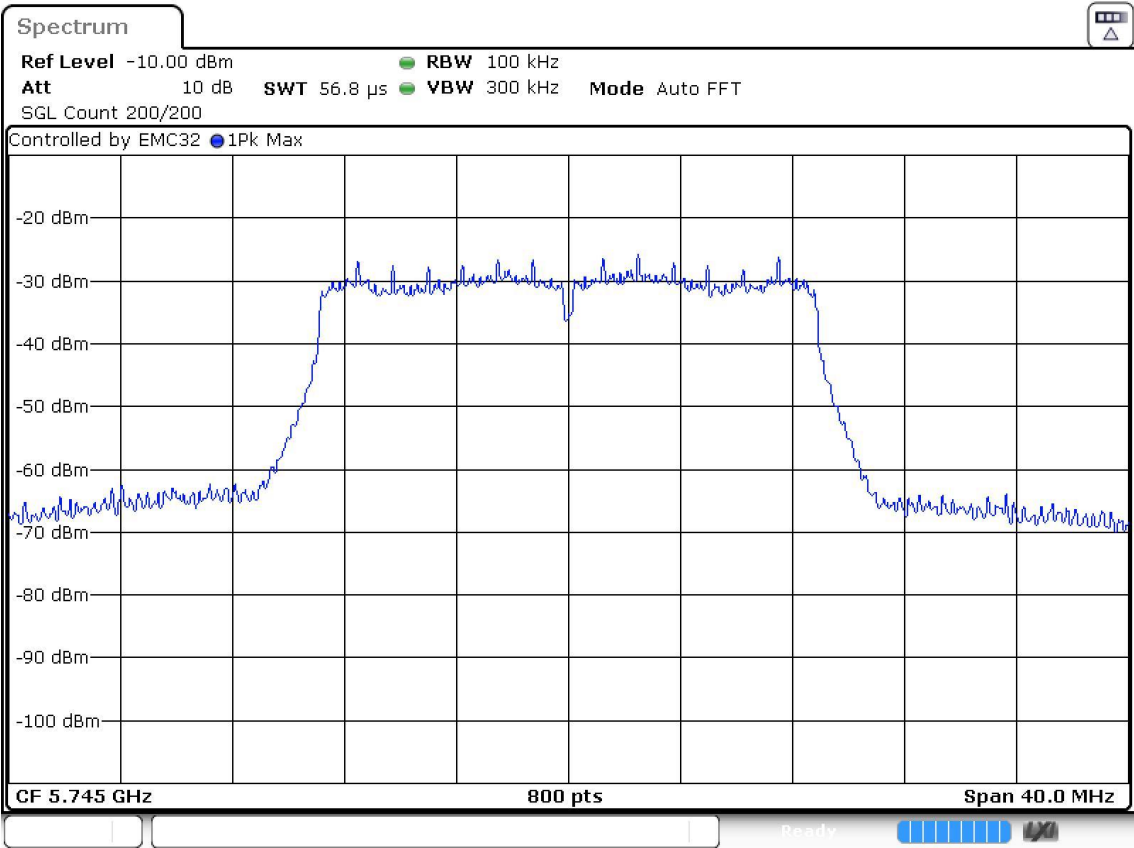
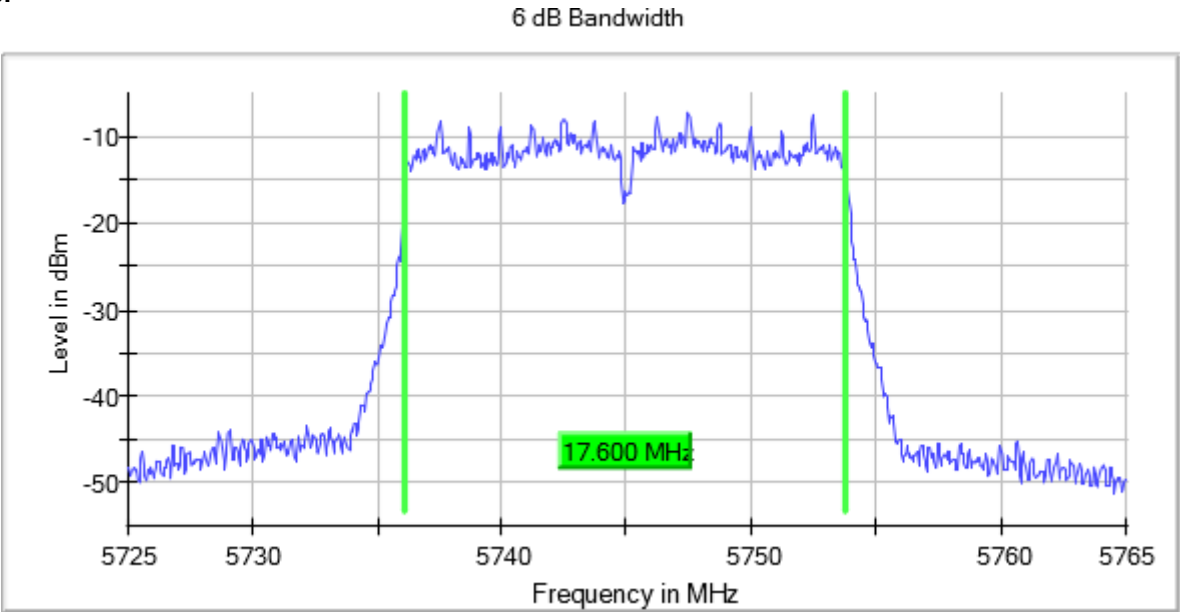
Verdict

Pass

Attachments

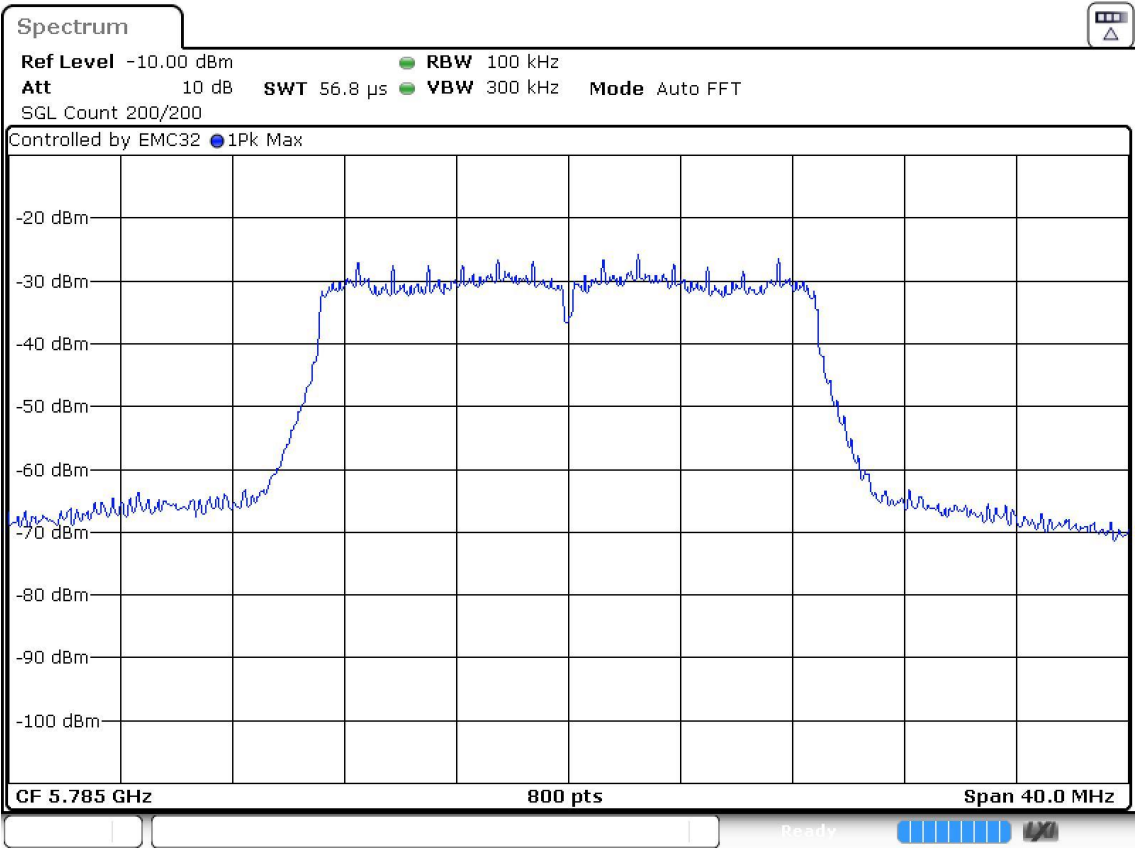
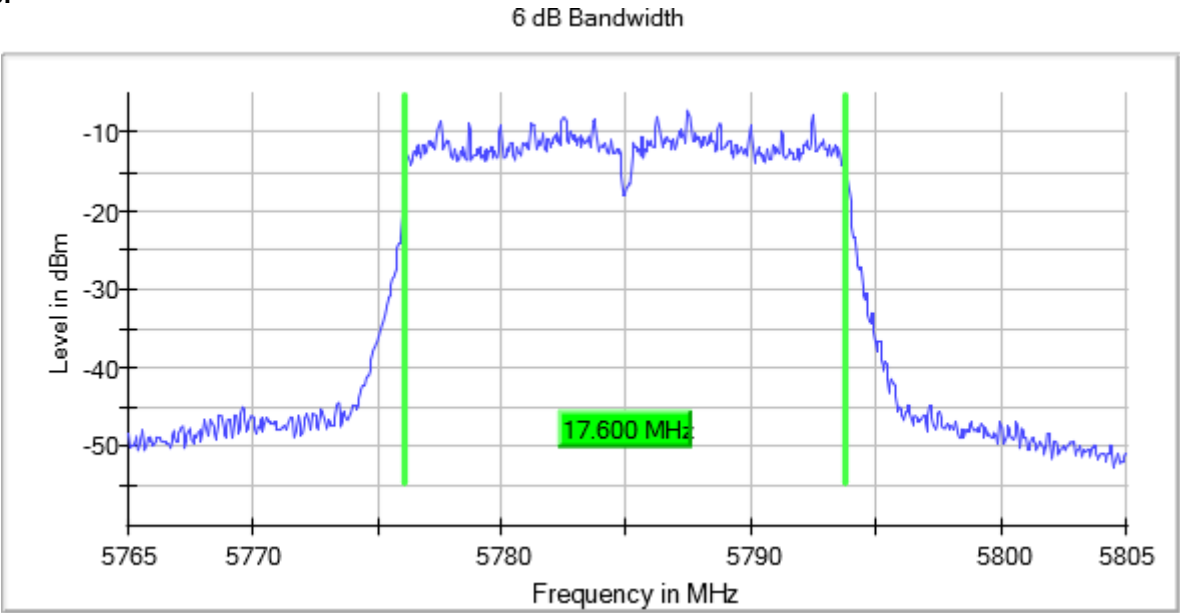
Active Port = 1
Frequency MHz = 5745.00000
Modulation = 802.11n HT20 (OFDM MCS0) MIMO Mode = SISO

Images:



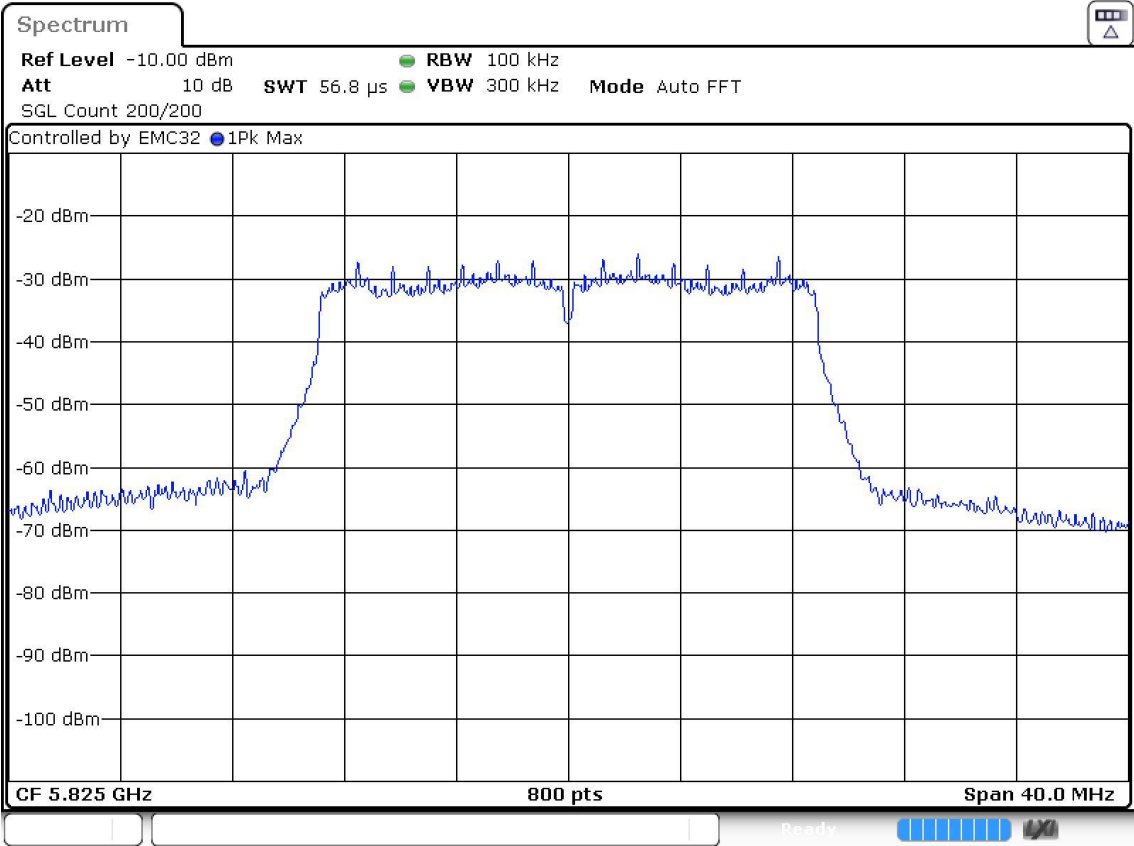
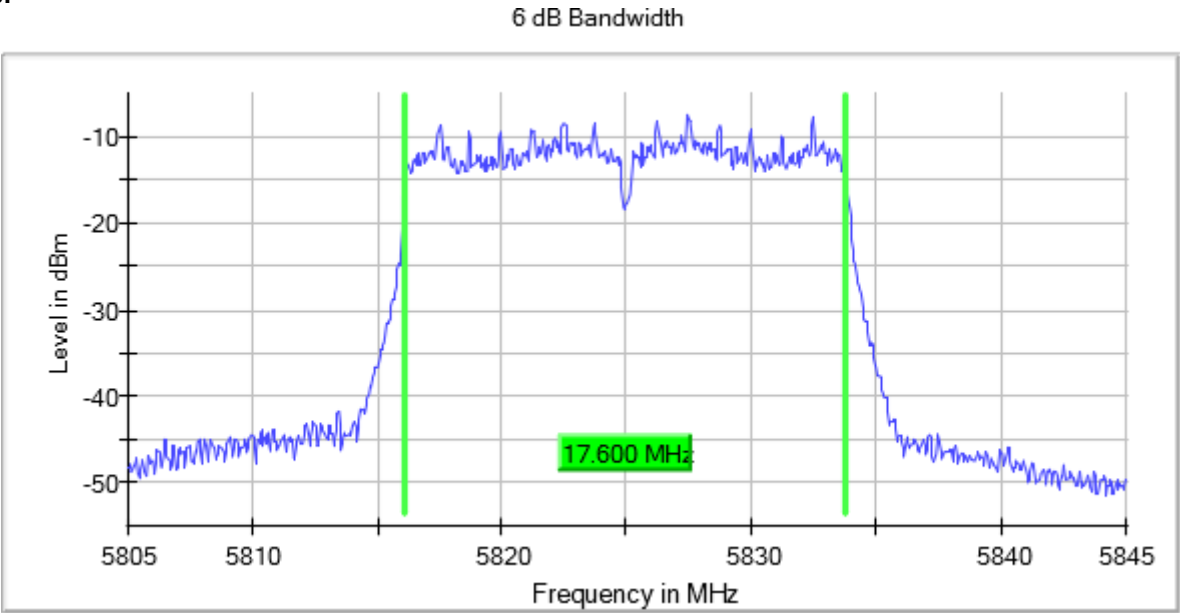
Active Port = 1
Frequency MHz = 5785.00000
Modulation = 802.11n HT20 (OFDM MCS0) MIMO Mode = SISO

Images:



Active Port = 1
Frequency MHz = 5825.00000
Modulation = 802.11n HT20 (OFDM MCS0) MIMO Mode = SISO

Images:



Modulation: 802.11n HT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5755.00000	35.750
	5795.00000	35.650

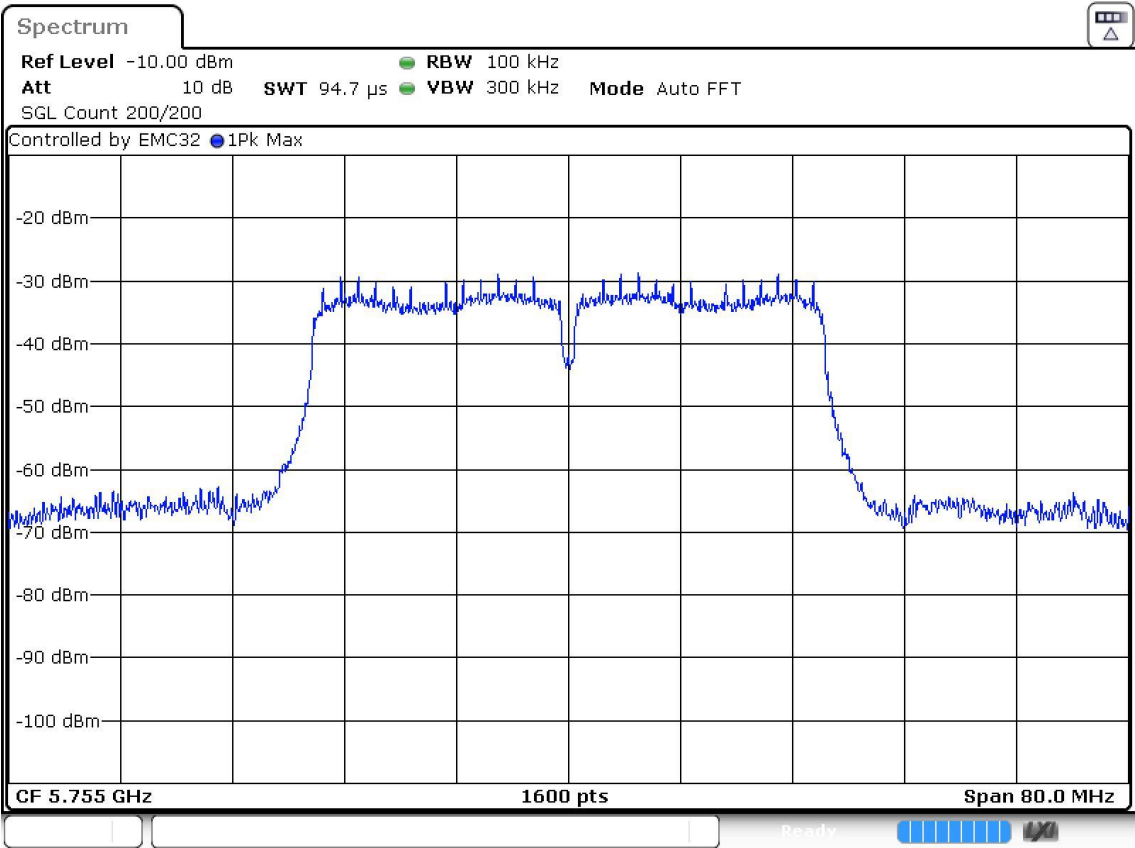
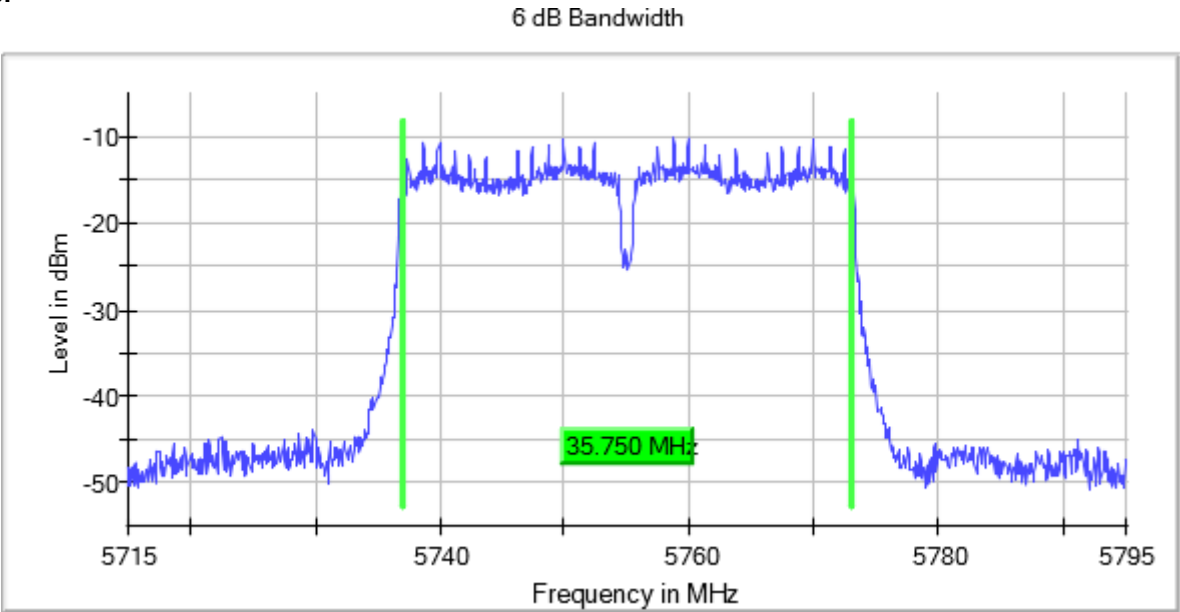
Verdict

Pass

Attachments

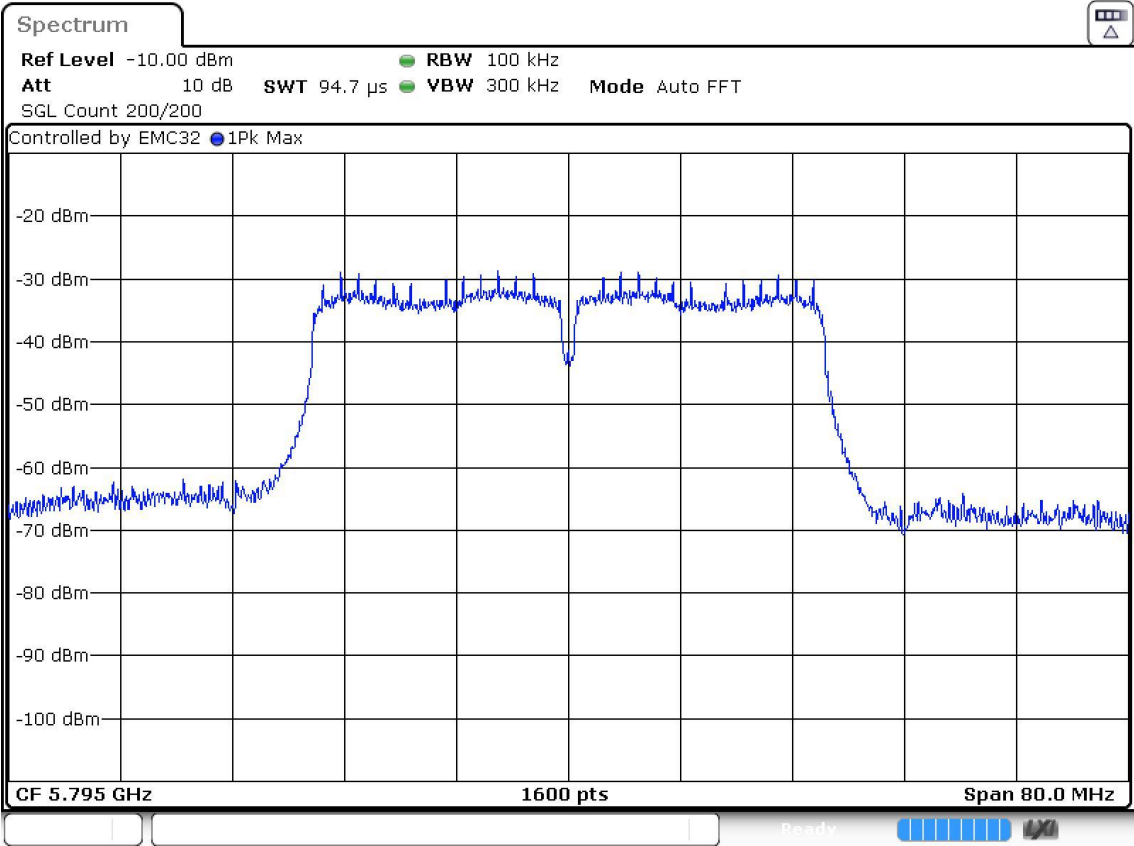
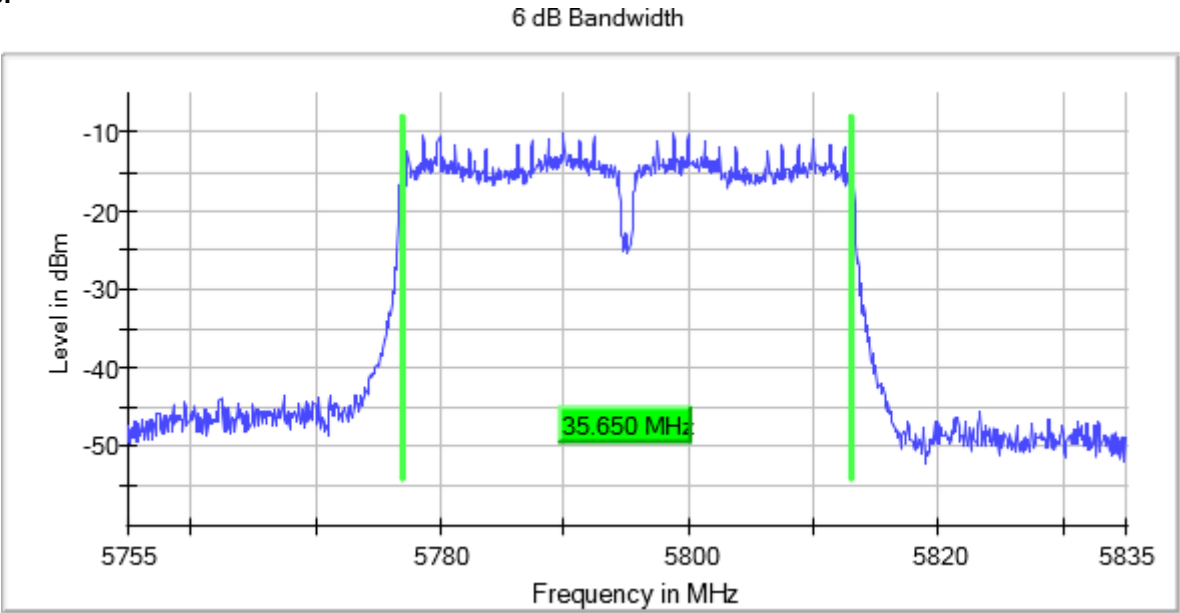
Active Port = 1
Frequency MHz = 5755.00000
Modulation = 802.11n HT40 (OFDM MCS0) MIMO Mode = SISO

Images:



Active Port = 1
Frequency MHz = 5795.00000
Modulation = 802.11n HT40 (OFDM MCS0) MIMO Mode = SISO

Images:



Modulation: 802.11a (OFDM 6 Mbit/s)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5745.00000	16.400
	5785.00000	16.400
	5825.00000	16.400

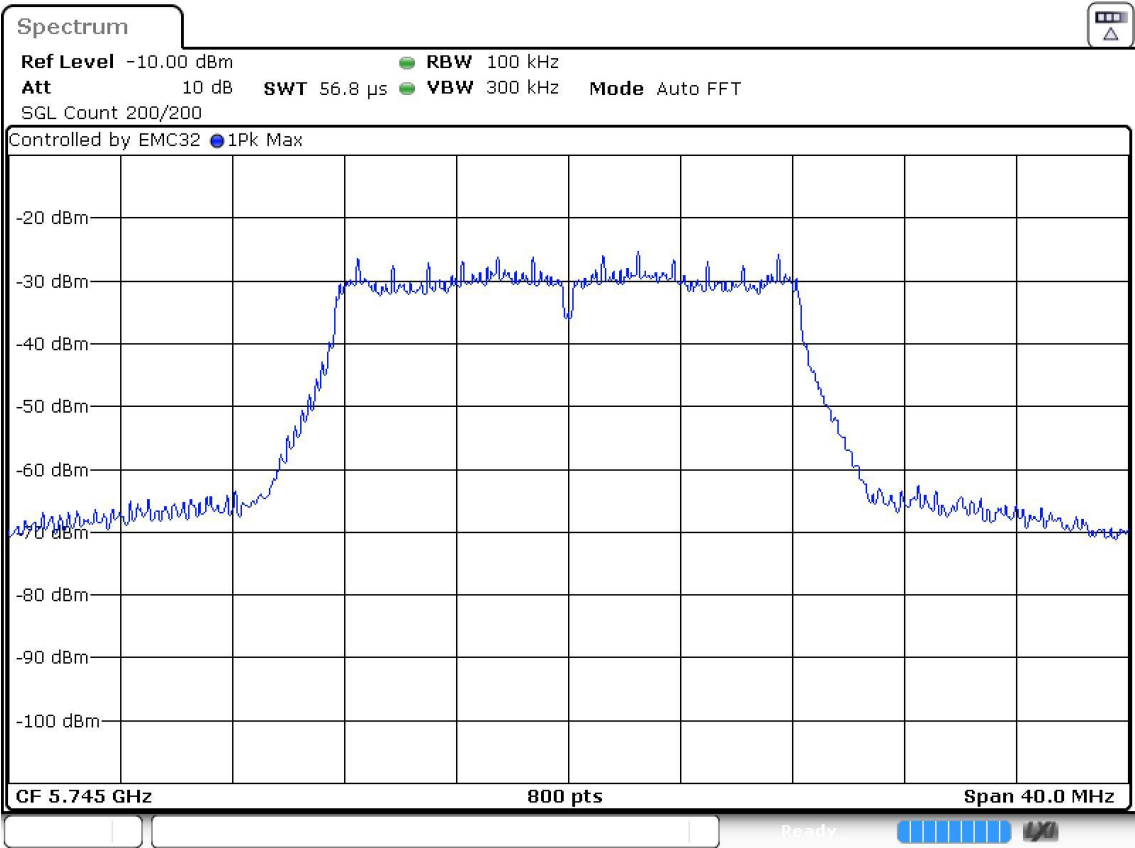
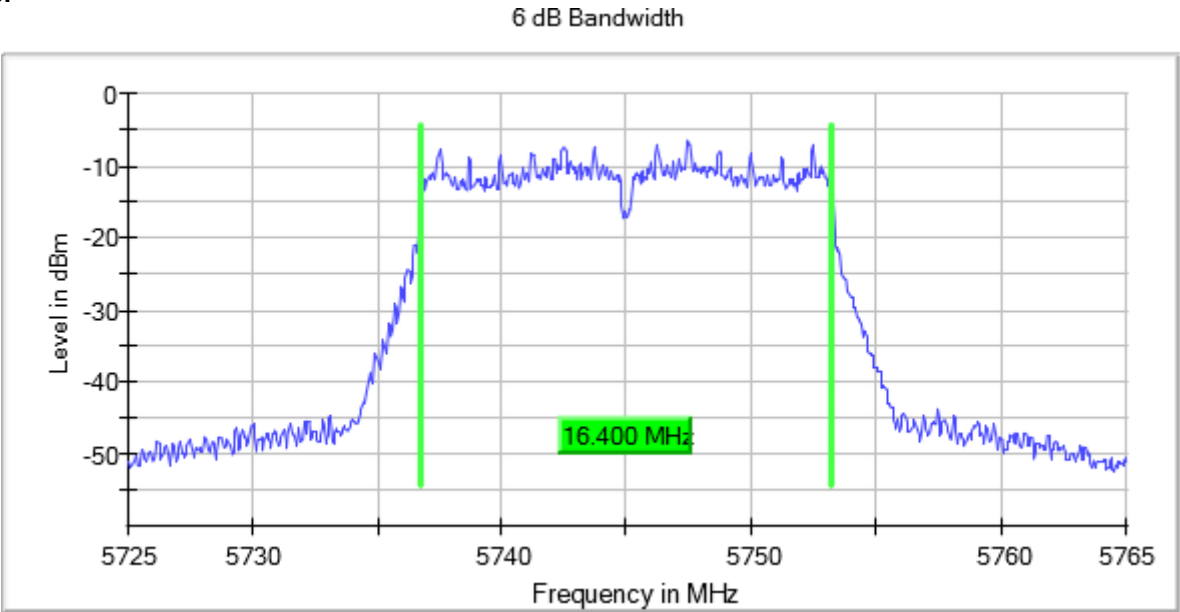
Verdict

Pass

Attachments

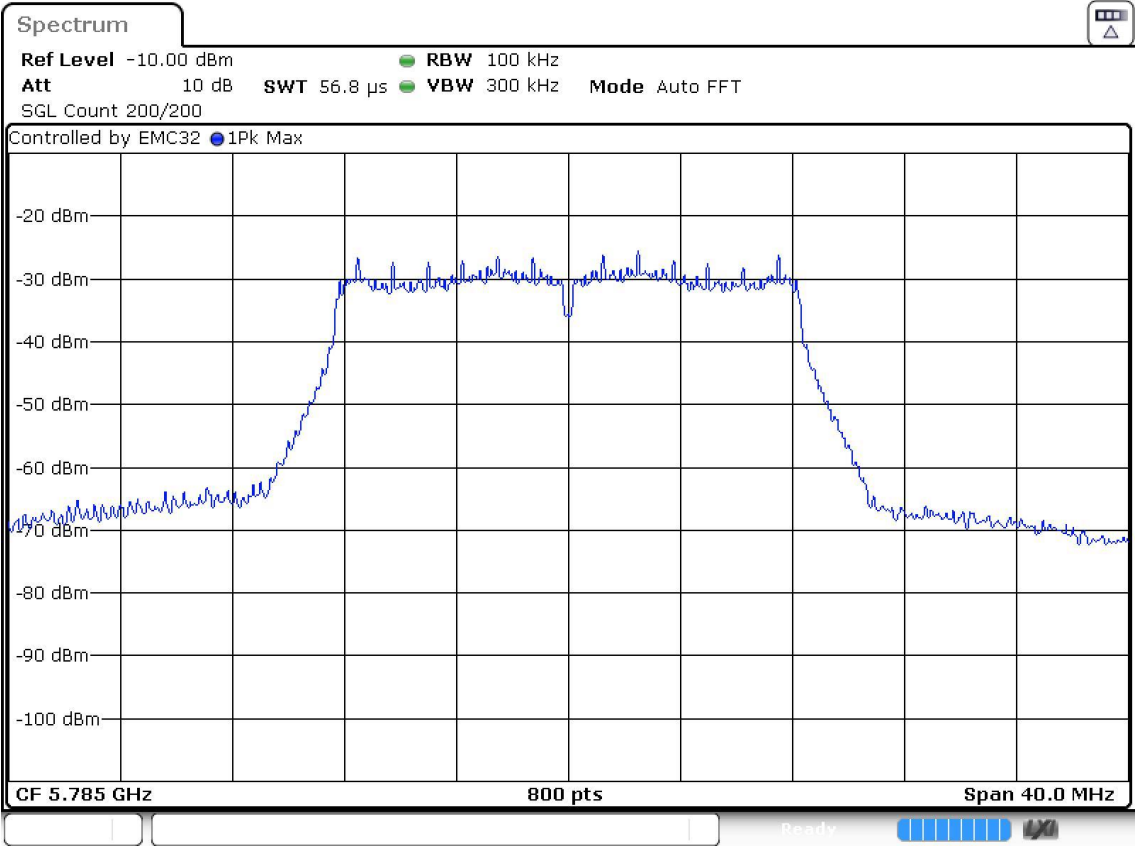
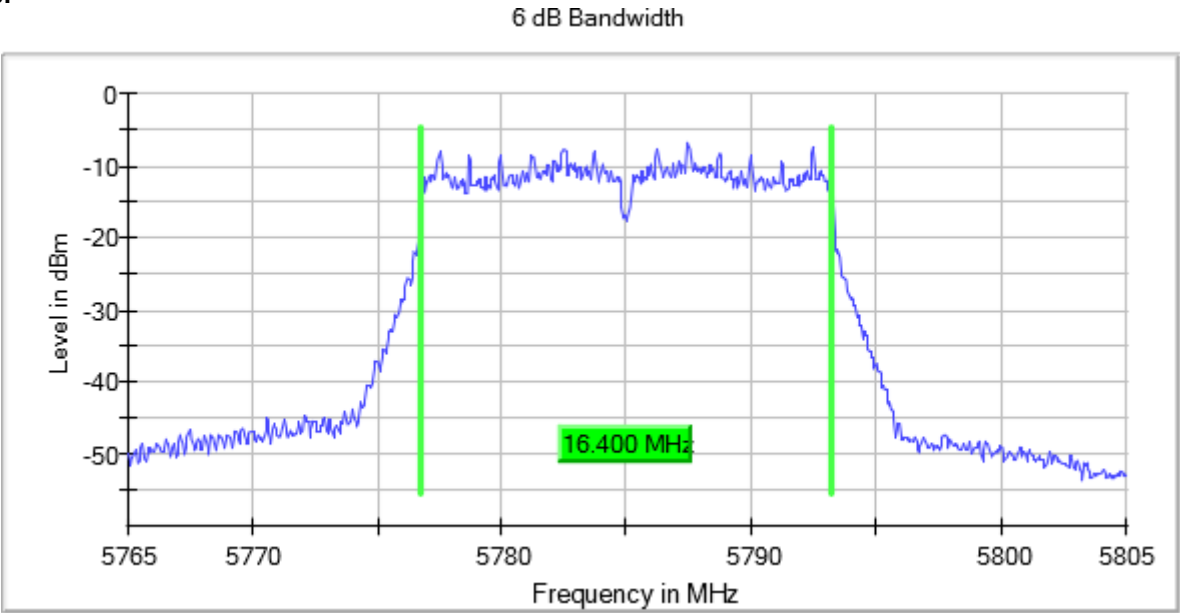
Active Port = 1 Frequency MHz = 5745.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:



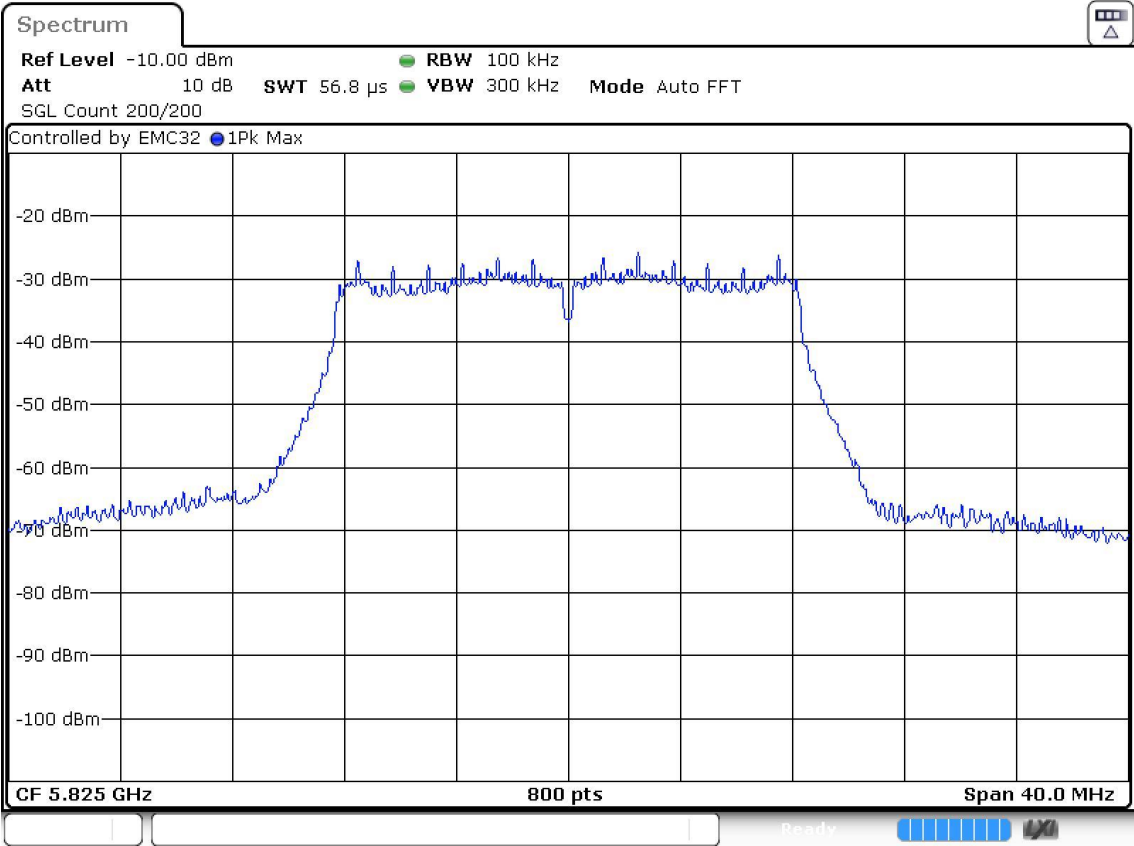
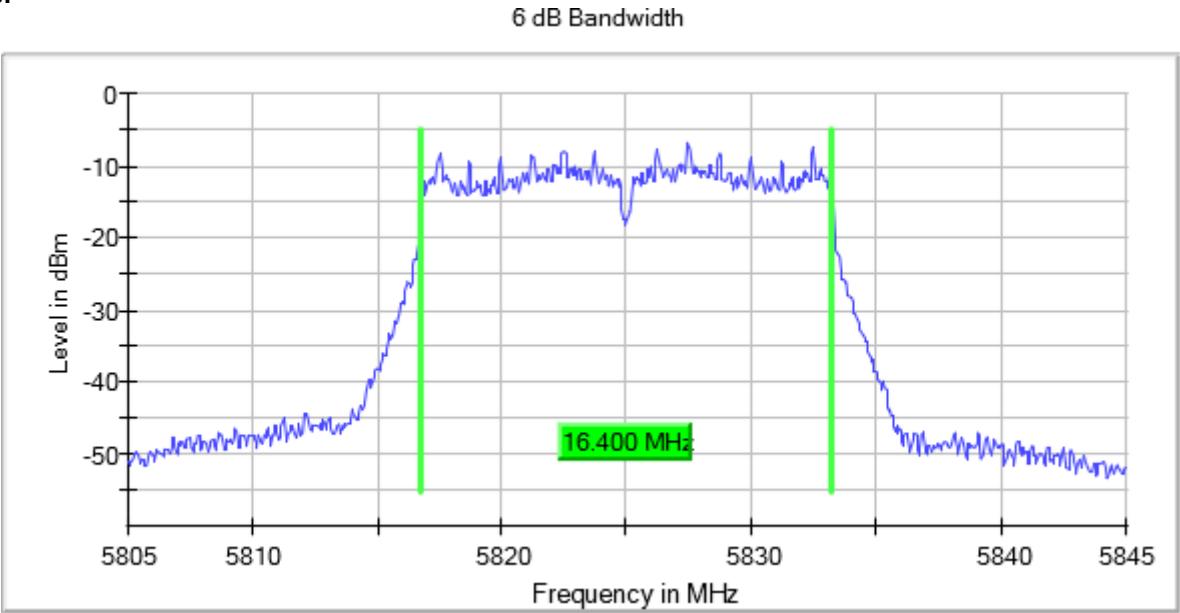
Active Port = 1 Frequency MHz = 5785.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:



Active Port = 1 Frequency MHz = 5825.00000
Modulation = 802.11a (OFDM 6 Mbit/s) MIMO Mode = SISO

Images:



Modulation: 802.11ac VHT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5745.00000	17.600
	5785.00000	17.600
	5825.00000	17.350

Verdict

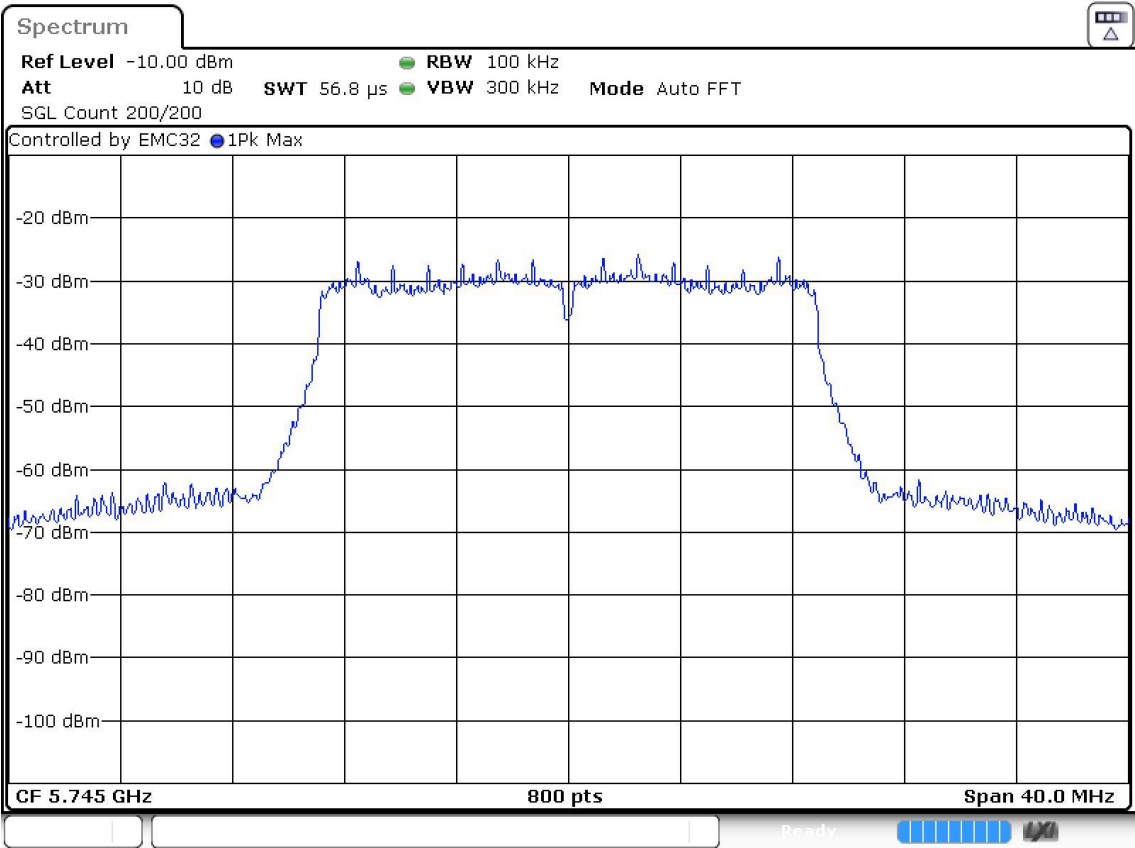
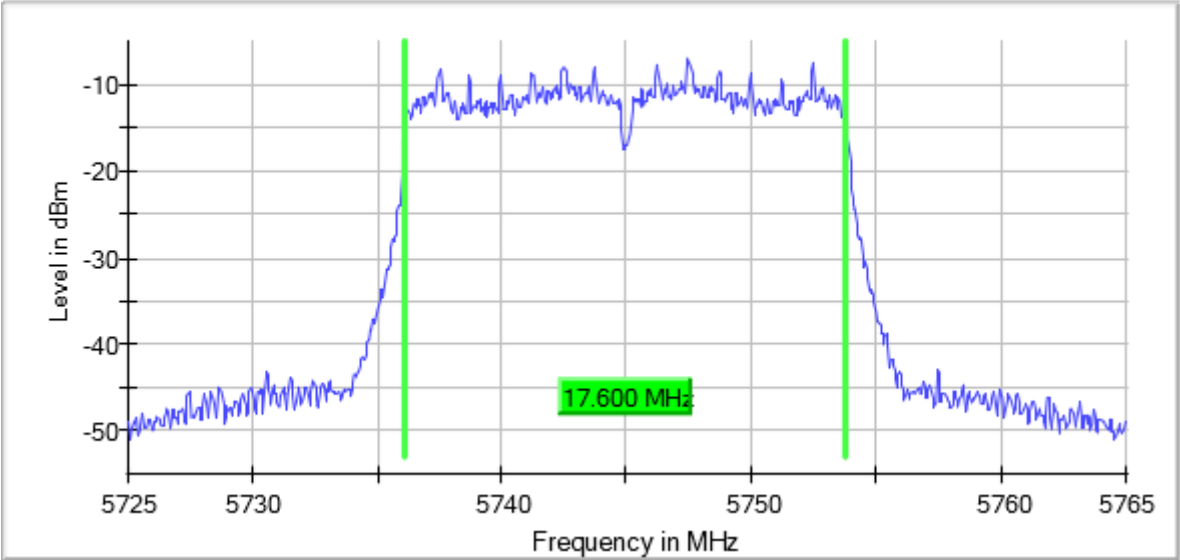
Pass

Attachments

Active Port = 1
Frequency MHz = 5745.00000
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO

Images:

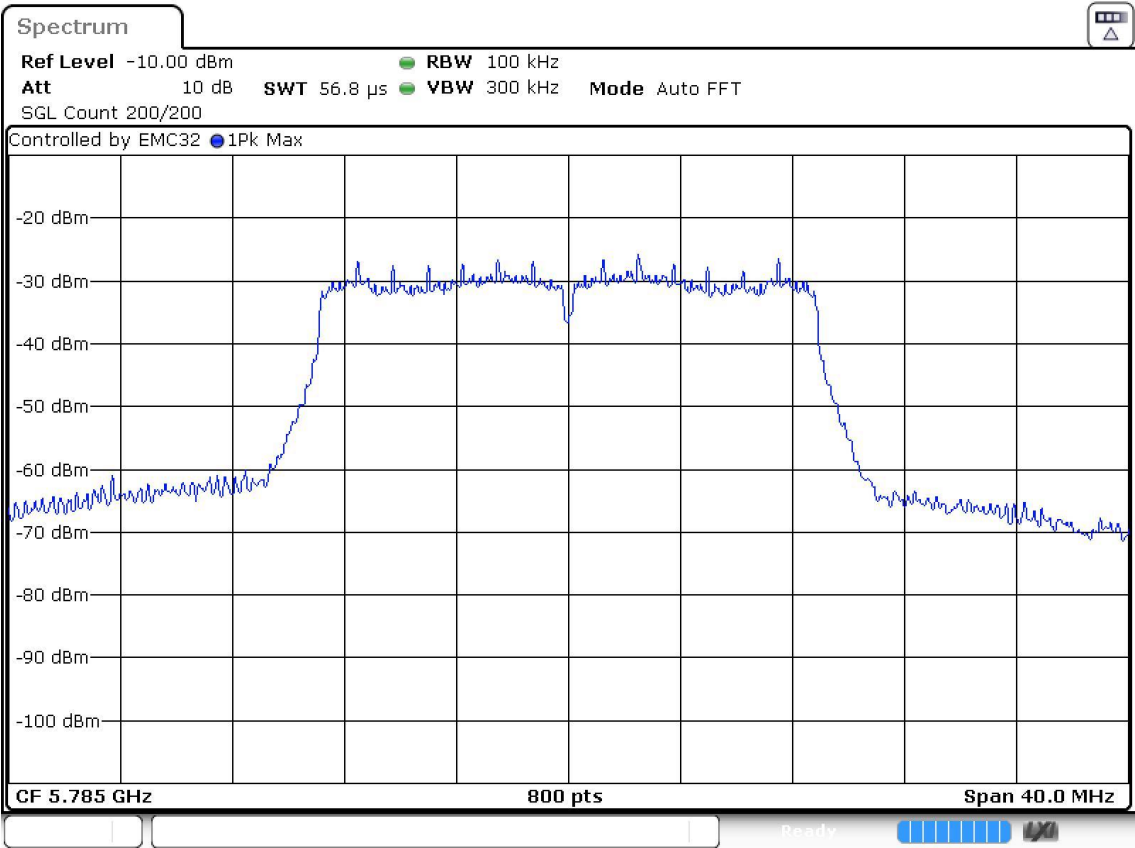
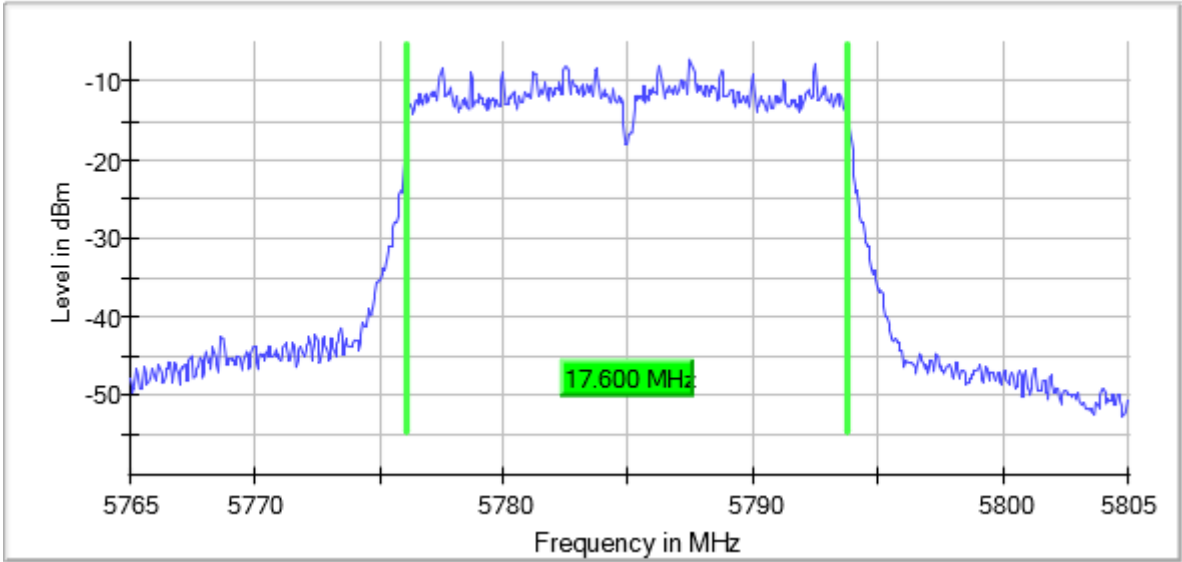
6 dB Bandwidth



Active Port = 1
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5785.00000

Images:

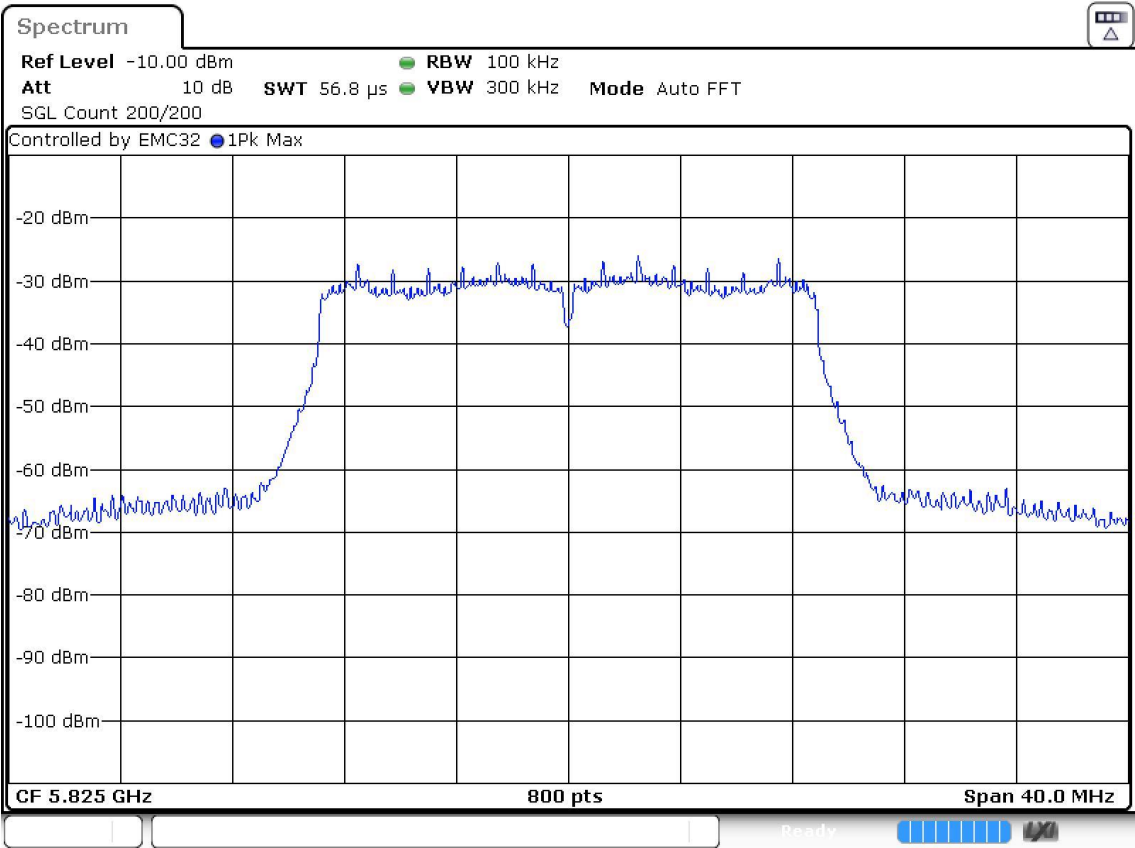
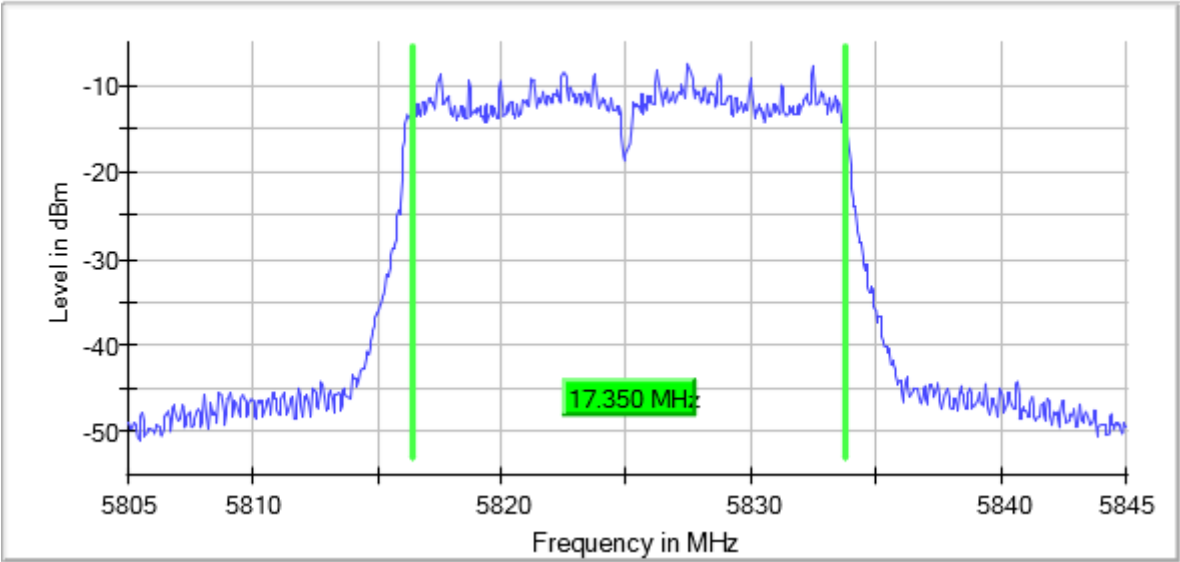
6 dB Bandwidth



Active Port = 1
Modulation = 802.11ac VHT20 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5825.00000

Images:

6 dB Bandwidth



Modulation: 802.11ac VHT40 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5755.00000	35.550
	5795.00000	35.650

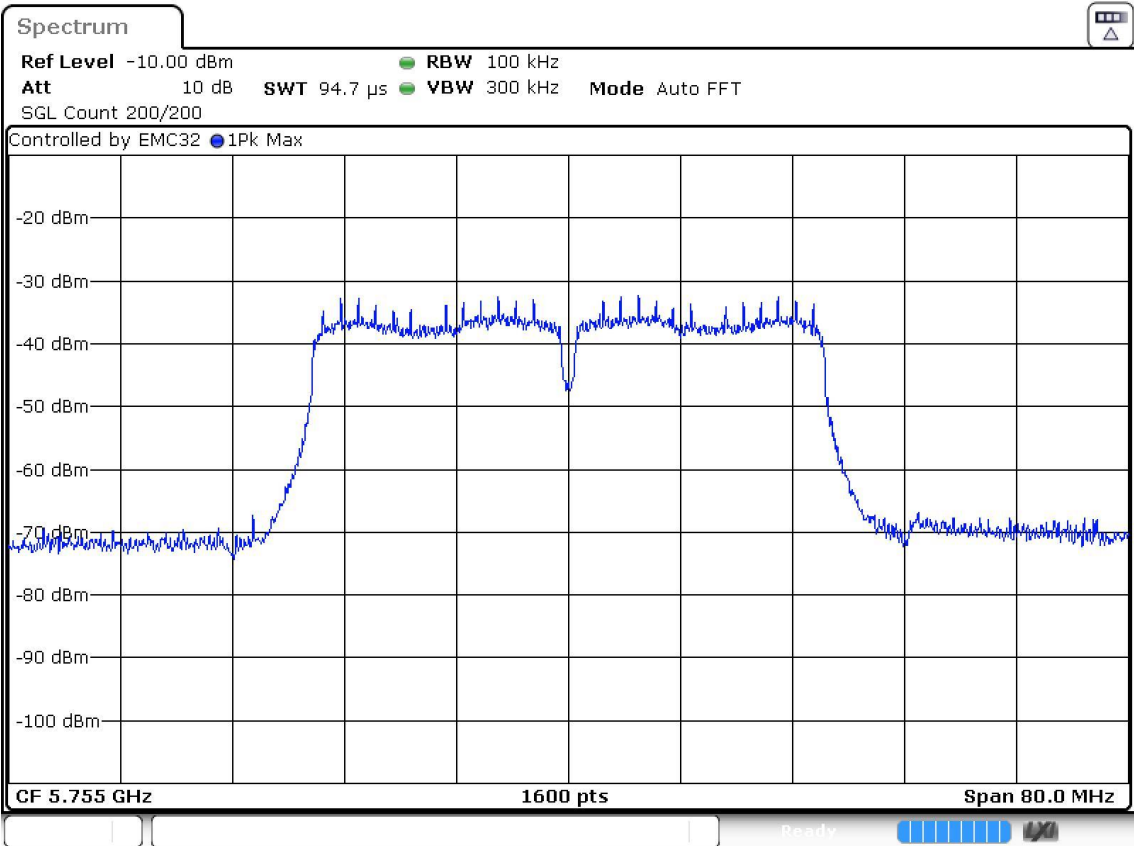
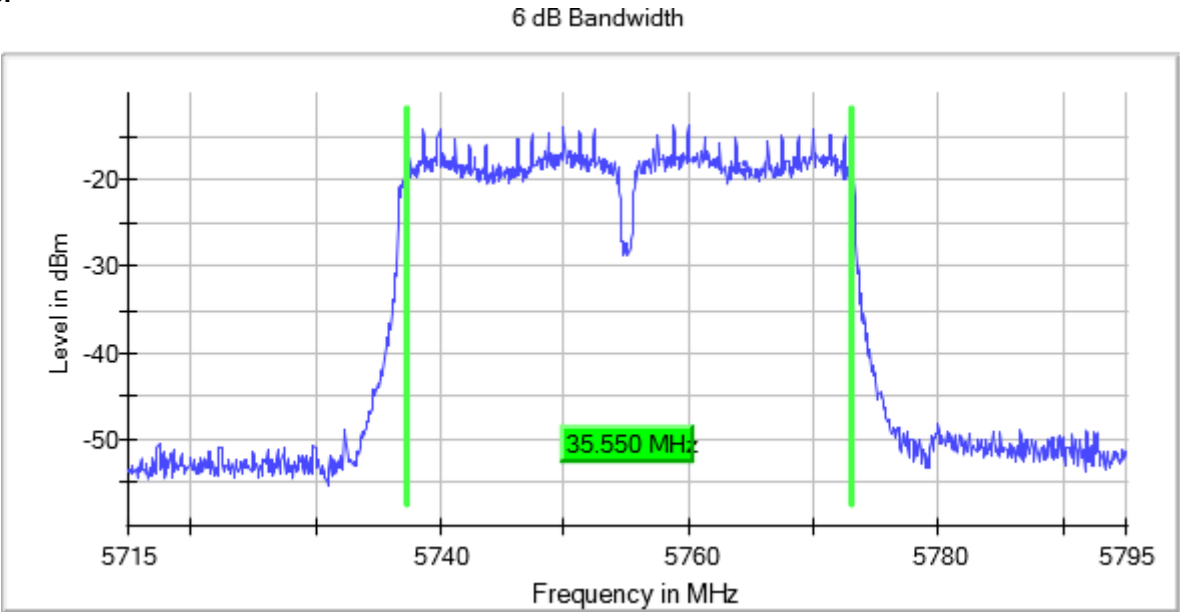
Verdict

Pass

Attachments

Active Port = 1
Modulation = 802.11ac VHT40 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5755.00000

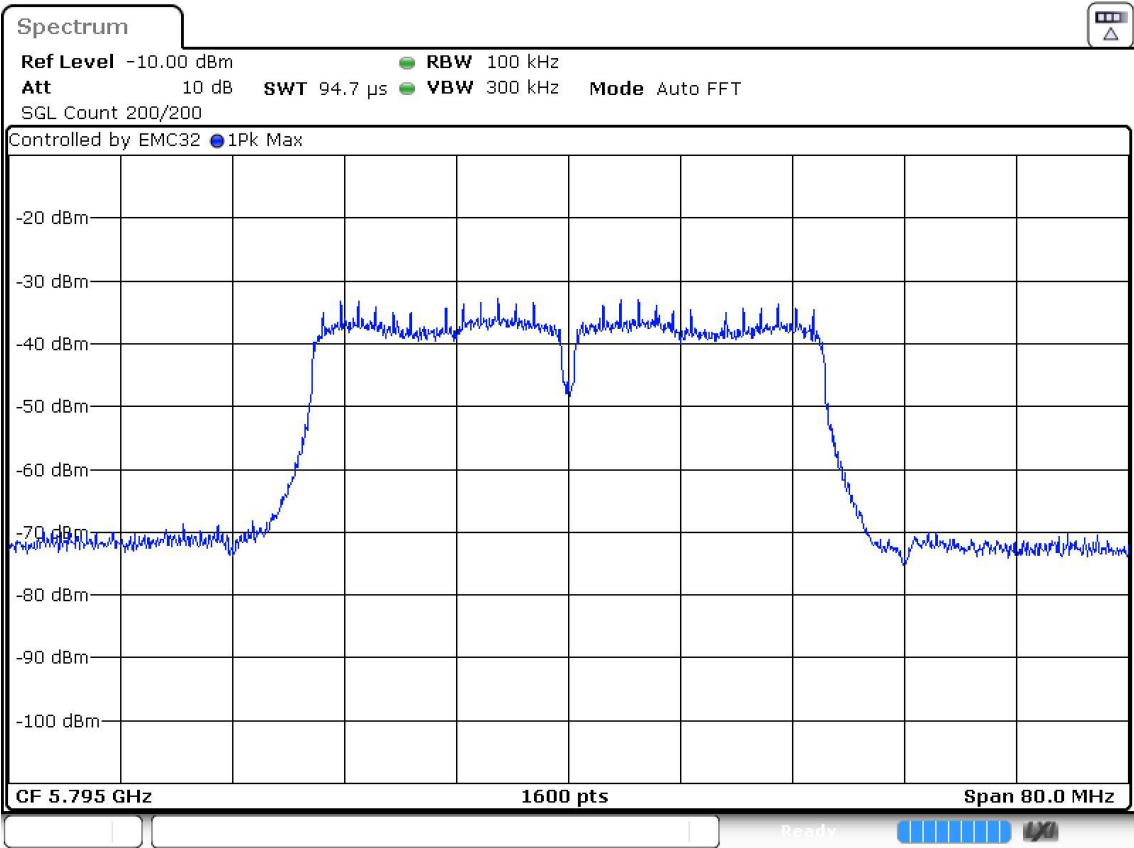
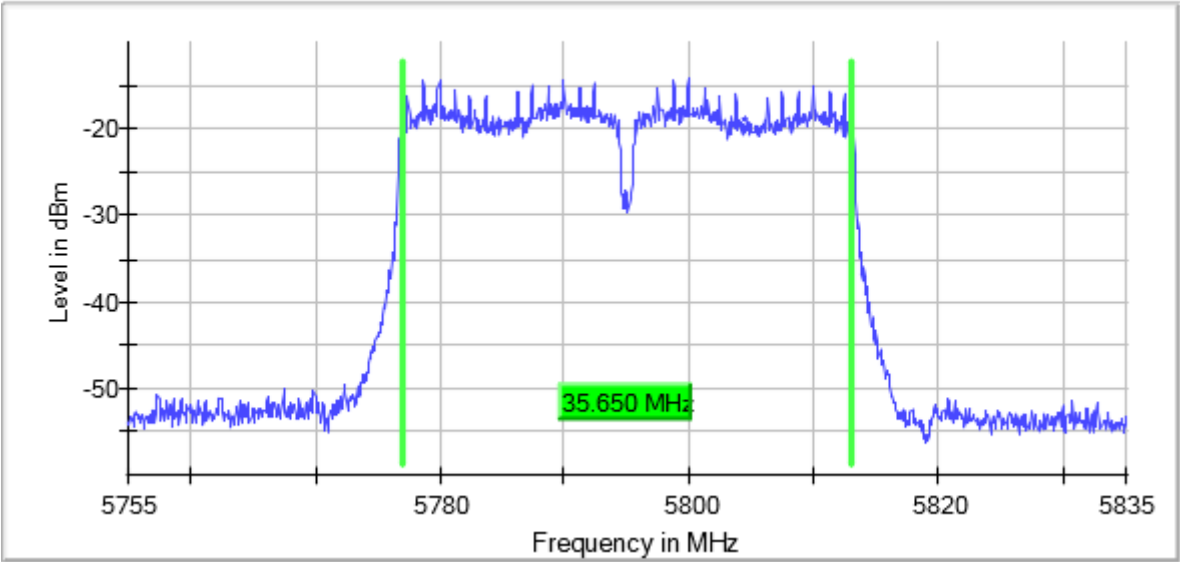
Images:



Active Port = 1
Modulation = 802.11ac VHT40 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5795.00000

Images:

6 dB Bandwidth



Modulation: 802.11ac VHT80 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Ebw (MHz)
1	5775.00000	76.400

Verdict

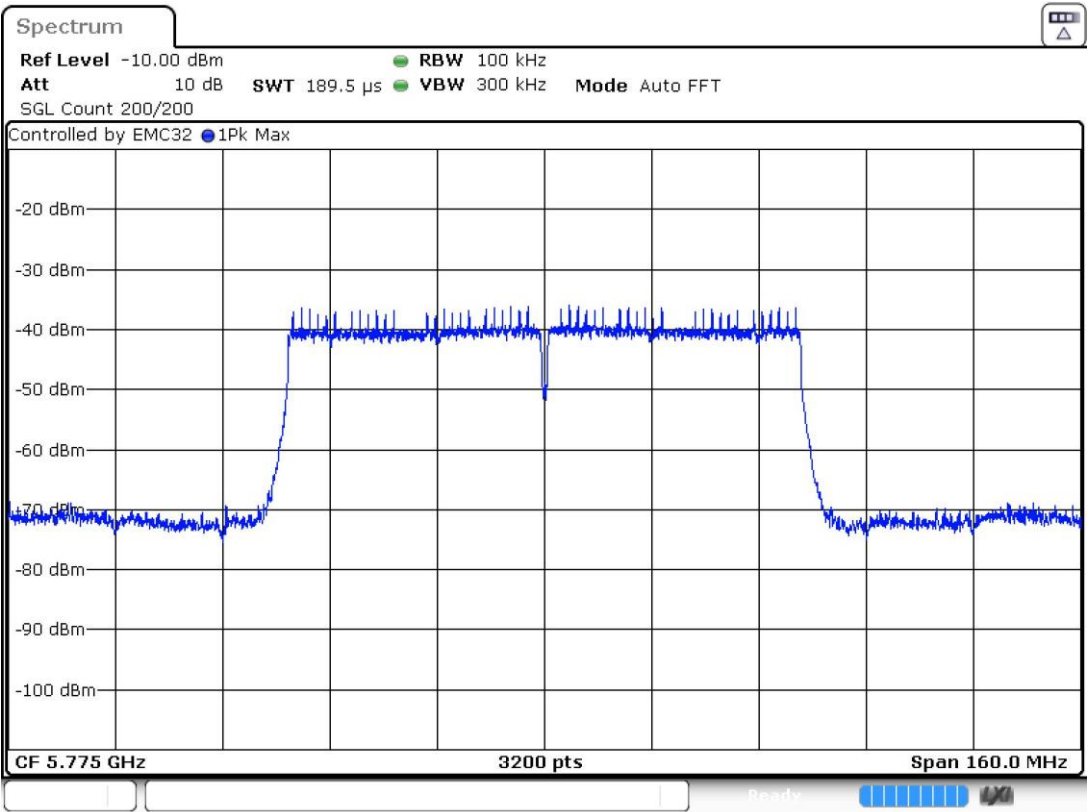
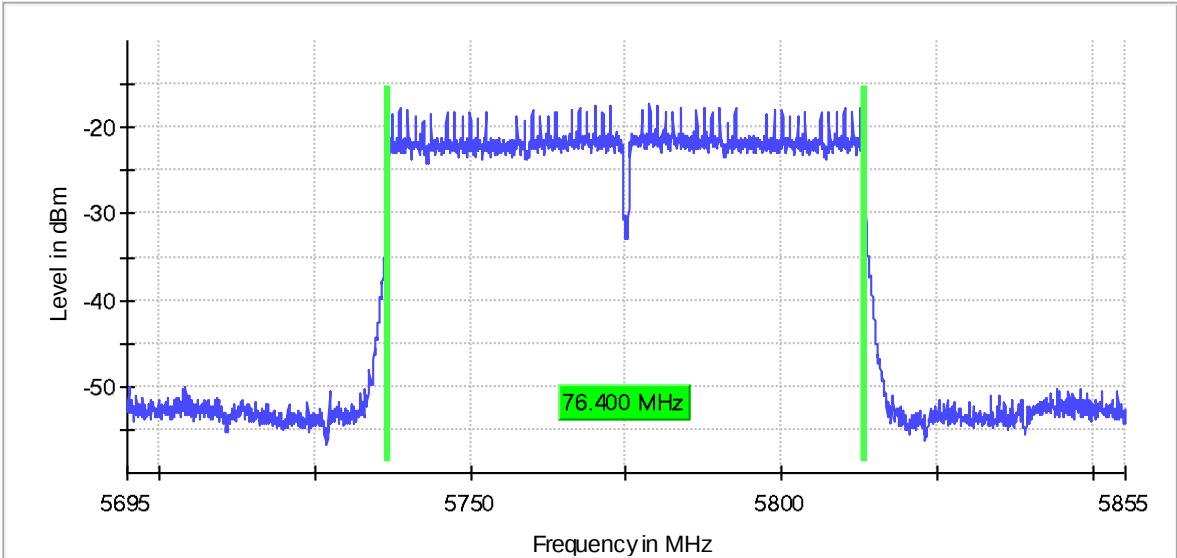
Pass

Attachments

Active Port = 1
Modulation = 802.11ac VHT80 (OFDM MCS0) MIMO Mode = SISO
Frequency MHz = 5775.00000

Images:

6 dB Bandwidth



RSS-247 6.2.4.2 / FCC 15.407 (b) (4) [Bndedge] Transmitter Band Edge Radiated Emissions for U-NII-3

Limits

* FCC 15.407: For transmitters operating in the 5.725–5.85 GHz band: All emissions shall be limited to a level of –27 dBm/MHz (68.23 dBμV/m at 3 m distance) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

* RSS-247:

Attenuation below the general field strength limits specified in RSS-Gen is not required.

Modulation: 802.11n HT20 (OFDM MCS0)

MIMO Mode: SISO

Results

Port	Freq (MHz)	Freq (MHz)	Lvl (dBm)
1	5745.00000	5645.750000	-54.8
1	5745.00000	5646.750000	-55.1
1	5745.00000	5597.250000	-55.6
1	5745.00000	5556.750000	-55.6
1	5745.00000	5592.250000	-55.9
1	5745.00000	5622.250000	-56.0
1	5745.00000	5629.250000	-56.0
1	5745.00000	5596.250000	-56.1
1	5745.00000	5643.750000	-56.1

Port	Freq (MHz)	Freq (MHz)	Lvl (dBm)
1	5745.00000	5589.250000	-56.2
1	5745.00000	5617.250000	-56.2
1	5745.00000	5568.750000	-56.2
1	5745.00000	5600.750000	-56.2
1	5745.00000	5595.750000	-56.2
1	5745.00000	5636.250000	-56.2
1	5825.00000	5976.750000	-54.7
1	5825.00000	5929.750000	-54.8
1	5825.00000	5962.750000	-54.9
1	5825.00000	5926.250000	-54.9
1	5825.00000	5938.750000	-55.0
1	5825.00000	5945.250000	-55.1
1	5825.00000	5939.250000	-55.1
1	5825.00000	5975.750000	-55.1
1	5825.00000	5954.250000	-55.1
1	5825.00000	5967.750000	-55.2
1	5825.00000	5934.250000	-55.3
1	5825.00000	5973.250000	-55.3
1	5825.00000	6009.250000	-55.3
1	5825.00000	5930.250000	-55.4
1	5825.00000	5933.750000	-55.4

Verdict

Pass