RF TEST REPORT

Applicant	ZTE Corporation
FCC ID	SRQ-Z6750M
Product	5G NR Multi-Mode Mobile Phone
Model	Z6750M
Report No.	R2008A0534-R9
Issue Date	October 23, 2020

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2019)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Peng Tao

Approved by: Kai Xu

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TABLE OF CONTENT

Summary of measurement results

Number	Test Case	Clause in FCC rules	Verdict
1	Average output power	15.407(a)	PASS
2	Occupied bandwidth	15.407(e)	PASS
3	Frequency stability	15.407(g)	PASS
4	Power spectral density	15.407(a)	PASS
5	Unwanted Emissions	15.407(b)	PASS
6	Conducted Emissions	15.207	PASS
Date of Testing: August 14, 2020 ~ October 12, 2020			
Date of Sample Received: August 14, 2020			
Note: All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Xu Kai
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	http://www.ta-shanghai.com
E-mail:	xukai@ta-shanghai.com

2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

2.2. General information

EUT Description	
Model	Z6750M
IMEI	8655633050021759
Hardware Version	Z6750MHW1.0
Software Version	Z6750MV1.0.0B01
Power Supply	Battery/AC adapter
Antenna Type	Internal Antenna
Antenna Gain	-0.91dBi
Test Mode(s)	U-NII-1(5150MHz-5250MHz) U-NII-3(5725MHz-5850MHz)
Modulation Type	802.11a/n (HT20/HT40) : OFDM 802.11ac (VHT20/VHT40/VHT80): OFDM
Max. Conducted Power	21.50dBm
Operating Frequency Range(s)	U-NII-1: 5150MHz-5250MHz U-NII-3: 5725MHz -5850MHz
Operating temperature range:	-10 ° C to 55° C
Operating voltage range:	3.5 V to 4.4 V
State DC voltage:	4.0V
EUT Accessory	
Adapter 1	Manufacturer: Shenzhen Ruijing Industrial Co Ltd Model: STC-A5930A1-Z
Adapter 2	Manufacturer: Jiangsu Chenyang Electron Co., Ltd. Model: STC-A5930A1-Z
Battery	Manufacturer: COSMX Model: Li3939T44P8h756547
USB Cable 1	Manufacturer: kingpower-tech Model: USB-TC30-W-100-M

USB Cable 2	Manufacturer: LUXSHARE-ICT Model: USB-TC30-W-100-M
Note:1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. There is more than one USB cable and Adapter, each one should be applied throughout the compliance test respectively, and however, only the worst case (USB cable 1) will be recorded in this report.	

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15E (2019) Unlicensed National Information Infrastructure Devices

ANSI C63.10 (2013)

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Test Mode	**Data Rate**
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Wireless Technology and Frequency Range

Wireless Technology		Bandwidth	Channel	Frequency
Wi-Fi	U-NII-1	20 MHz	36	5180MHz
			40	5200MHz
			44	5220MHz
			48	5240MHz
		40 MHz	38	5190MHz
			46	5230MHz
		80 MHz	42	5210MHz
	U-NII-3	20 MHz	149	5745MHz
			153	5765MHz
			157	5785MHz
			161	5805MHz
			165	5825MHz
		40 MHz	151	5755MHz
			159	5795MHz
		80 MHz	155	5775MHz
Does this device support TPC Function? ☒Yes ☐No				

5. Test Case Results

5.1. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

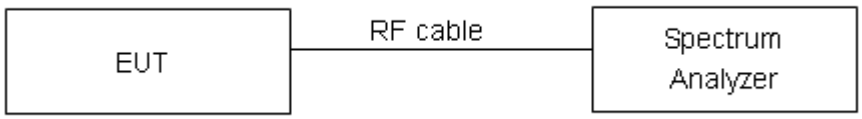
For U-NII-1, set RBW ≈1% OCB kHz, VBW ≥ 3 × RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW ≥ 3 × RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument

Test Setup



Limits

Rule FCC Part §15.407(e)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936 Hz.

Test Results:

U-NII-1

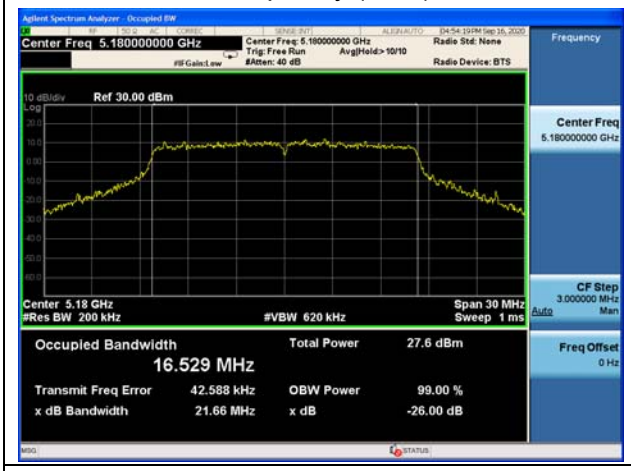
Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5180	16.529	21.66	PASS
	5200	16.541	21.83	PASS
	5240	16.558	22.36	PASS
802.11n HT20	5180	17.779	21.99	PASS
	5200	17.699	22.51	PASS
	5240	17.694	22.26	PASS
802.11n HT40	5190	36.195	40.92	PASS
	5230	36.208	40.65	PASS
802.11ac VHT20	5180	17.719	23.11	PASS
	5200	17.730	22.35	PASS
	5240	17.691	21.52	PASS
802.11ac VHT40	5190	36.185	41.03	PASS
	5230	36.216	41.52	PASS
802.11ac VHT80	5210	75.639	83.67	PASS

U-NII-3

Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11a	5745	16.563	16.35	500	PASS
	5785	16.603	16.35	500	PASS
	5825	16.573	13.14	500	PASS
802.11nHT20	5745	17.717	14.02	500	PASS
	5785	17.755	14.96	500	PASS
	5825	17.749	12.62	500	PASS
802.11nHT40	5755	36.203	35.75	500	PASS
	5795	36.152	35.40	500	PASS
802.11ac VHT20	5745	17.745	15.70	500	PASS
	5785	17.720	14.20	500	PASS
	5825	17.720	17.57	500	PASS
802.11ac VHT40	5755	36.243	35.66	500	PASS
	5795	36.140	35.74	500	PASS
802.11ac VHT80	5775	75.603	75.07	500	PASS

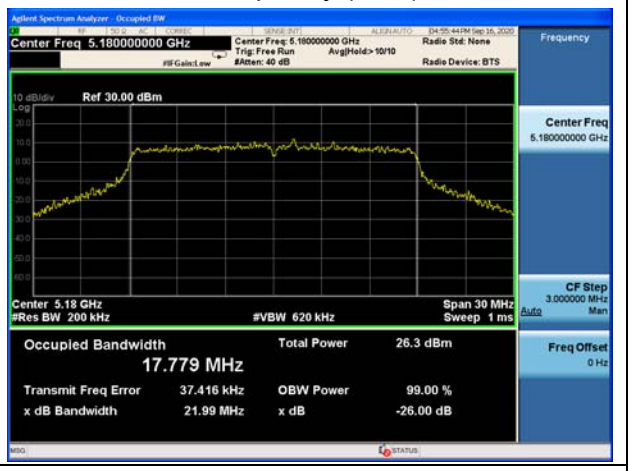
U-NII-1, 802.11a

Carrier frequency (MHz): 5180



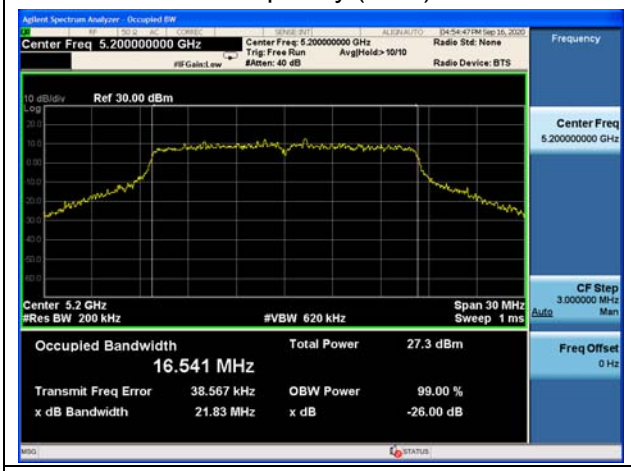
U-NII-1, 802.11n HT20

Carrier frequency (MHz): 5180



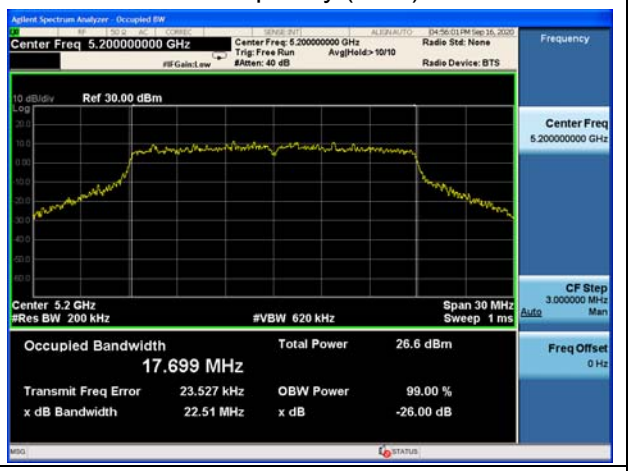
U-NII-1, 802.11a

Carrier frequency (MHz): 5200



U-NII-1, 802.11n HT20

Carrier frequency (MHz): 5200

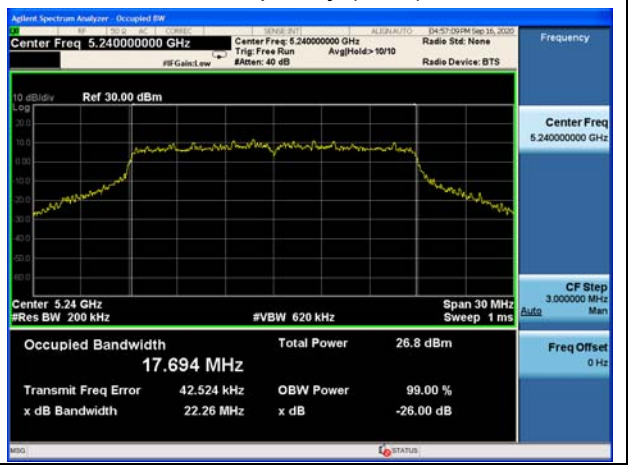


U-NII-1, 802.11a

Carrier frequency (MHz):5240

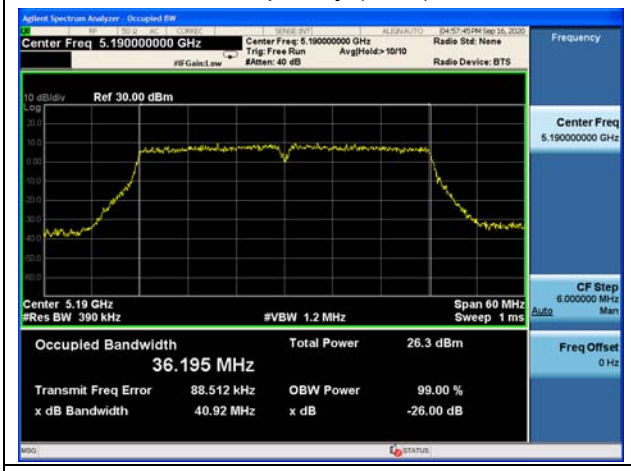
U-NII-1, 802.11n HT20

Carrier frequency (MHz):5240



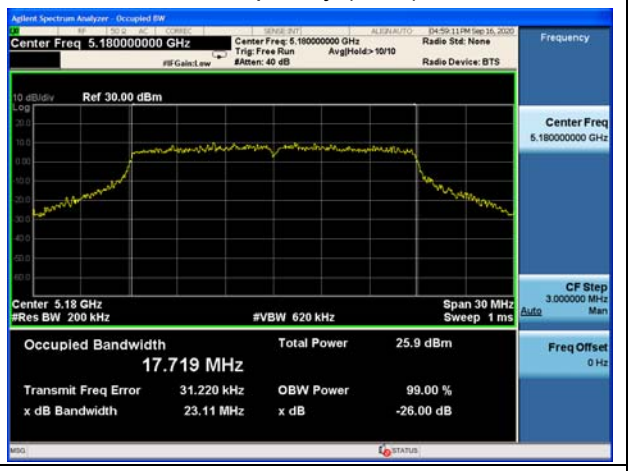
U-NII-1, 802.11n HT40

Carrier frequency (MHz): 5190



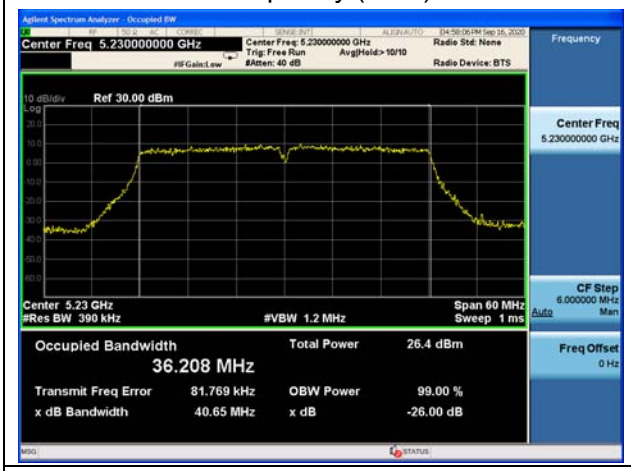
U-NII-1, 802.11ac VHT20

Carrier frequency (MHz): 5180



U-NII-1, 802.11n HT40

Carrier frequency (MHz): 5230

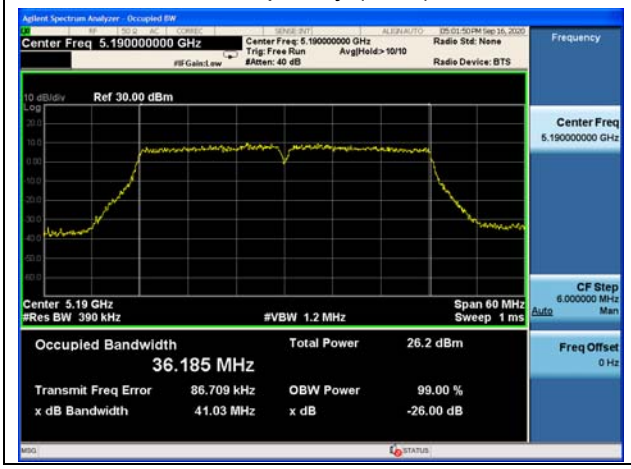


U-NII-1, 802.11ac VHT20

Carrier frequency (MHz): 5200

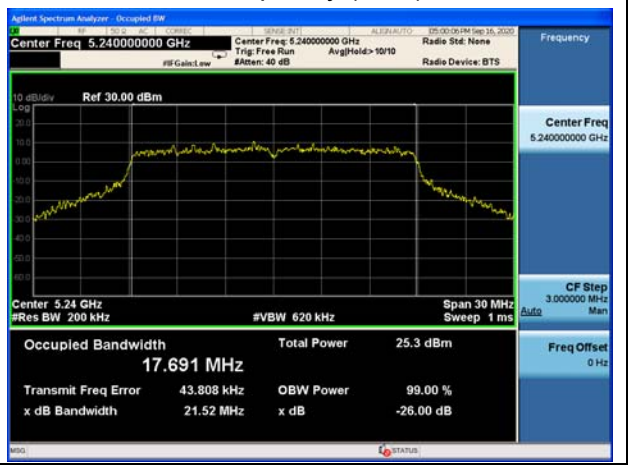
U-NII-1, 802.11ac VHT40

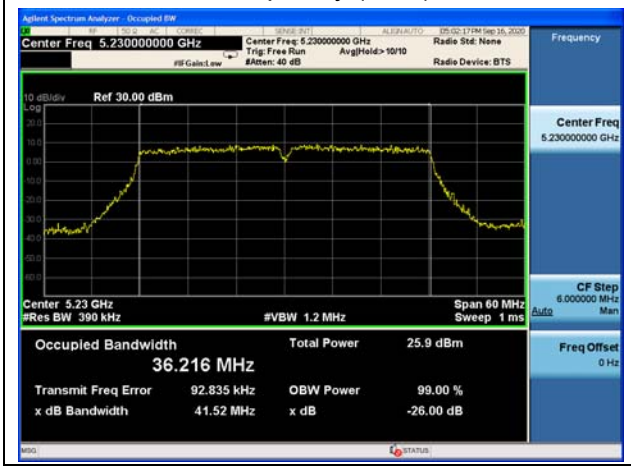
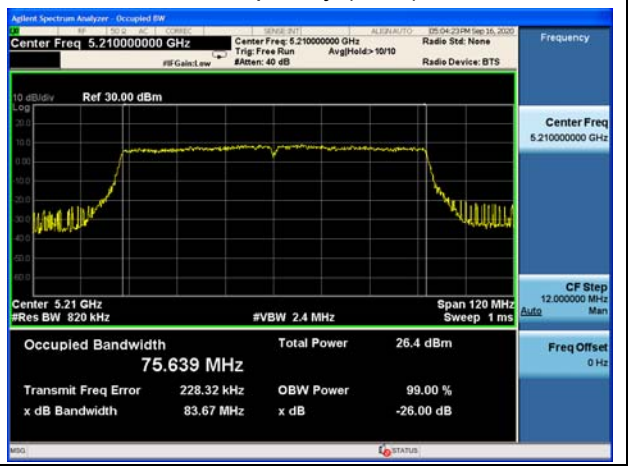
Carrier frequency (MHz): 5190



U-NII-1, 802.11ac VHT20

Carrier frequency (MHz):5240

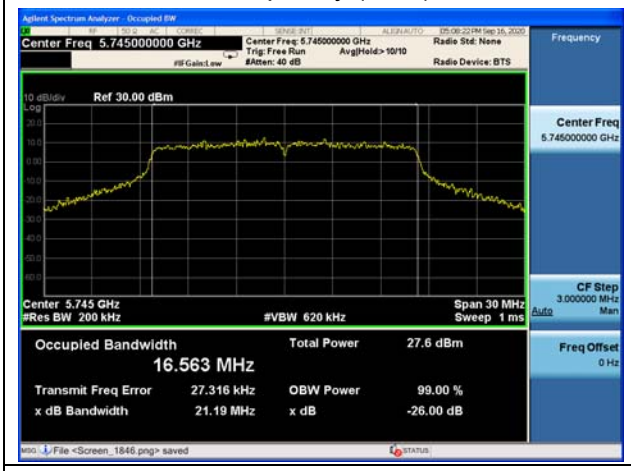


U-NII-1, 802.11ac VHT40 Carrier frequency (MHz): 5230	U-NII-1, 802.11ac VHT80 Carrier frequency (MHz): 5210
	

99% bandwidth

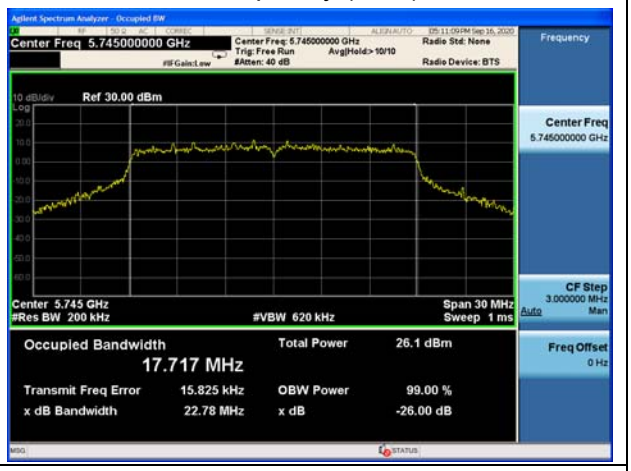
U-NII-3, 802.11a

Carrier frequency (MHz): 5745



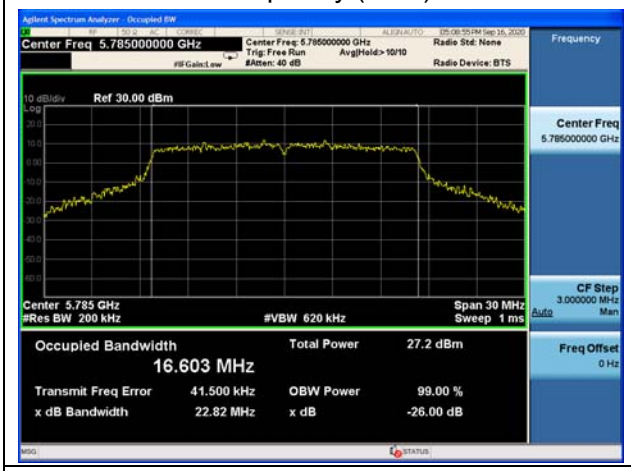
U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5745



U-NII-3, 802.11a

Carrier frequency (MHz): 5785

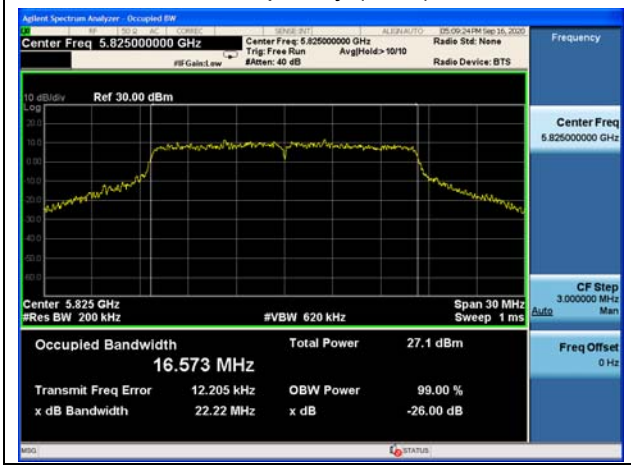


U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5785

U-NII-3, 802.11a

Carrier frequency (MHz): 5825

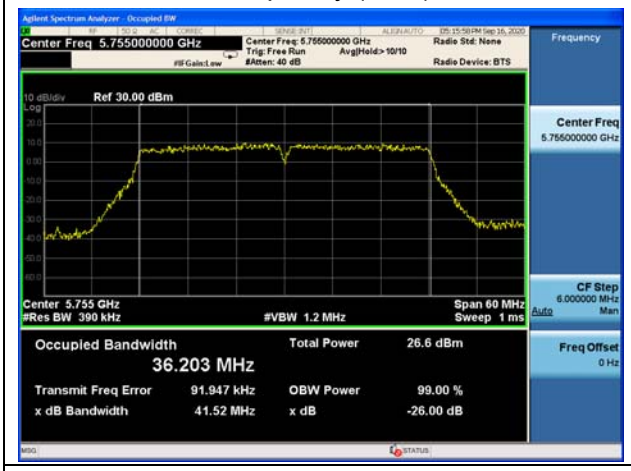


U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5825

U-NII-3, 802.11n HT40

Carrier frequency (MHz): 5755

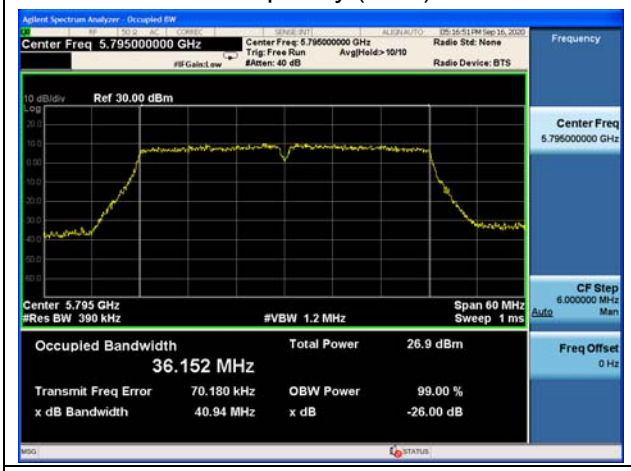


U-NII-3, 802.11ac VHT20

Carrier frequency (MHz): 5745

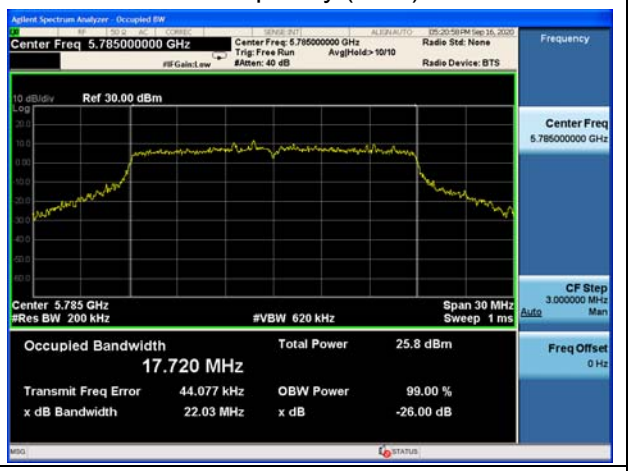
U-NII-3, 802.11n HT40

Carrier frequency (MHz): 5795



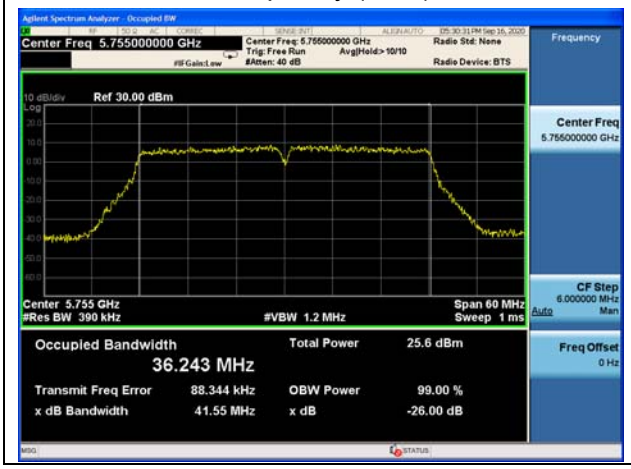
U-NII-3, 802.11ac VHT20

Carrier frequency (MHz): 5785



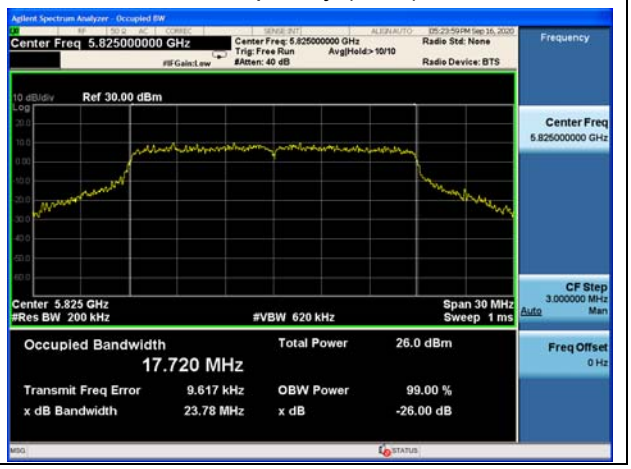
U-NII-3, 802.11ac VHT40

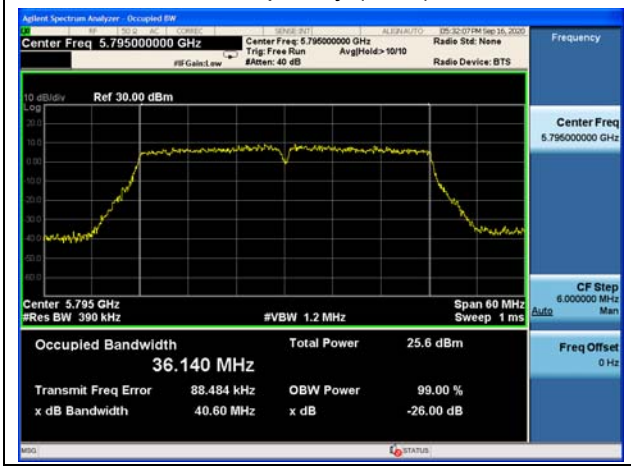
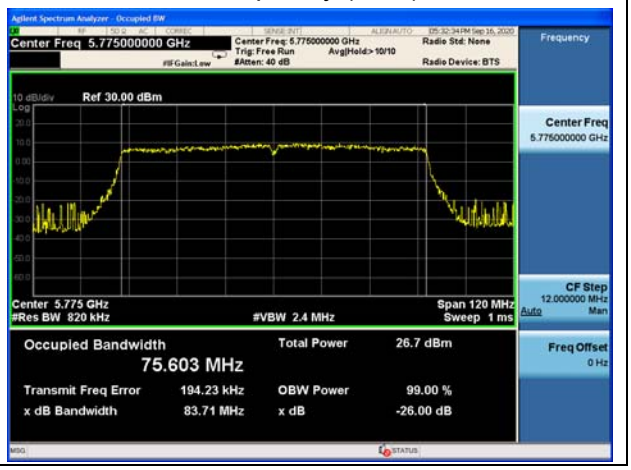
Carrier frequency (MHz): 5755



U-NII-3, 802.11ac VHT20

Carrier frequency (MHz): 5825

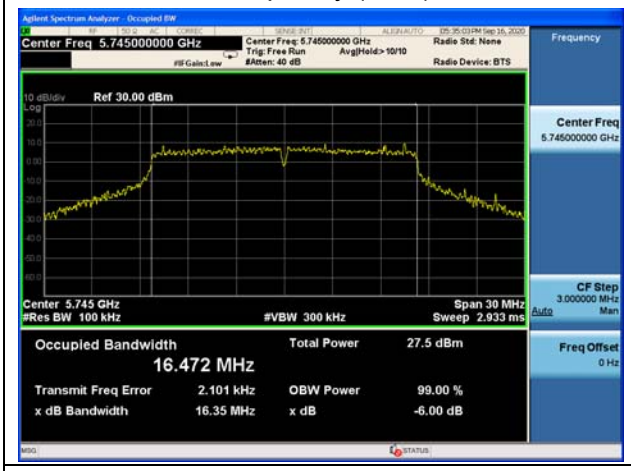


U-NII-3, 802.11ac VHT40 Carrier frequency (MHz): 5795	U-NII-3, 802.11ac VHT80 Carrier frequency (MHz): 5775
	

Minimum 6 dB bandwidth

U-NII-3, 802.11a

Carrier frequency (MHz): 5745

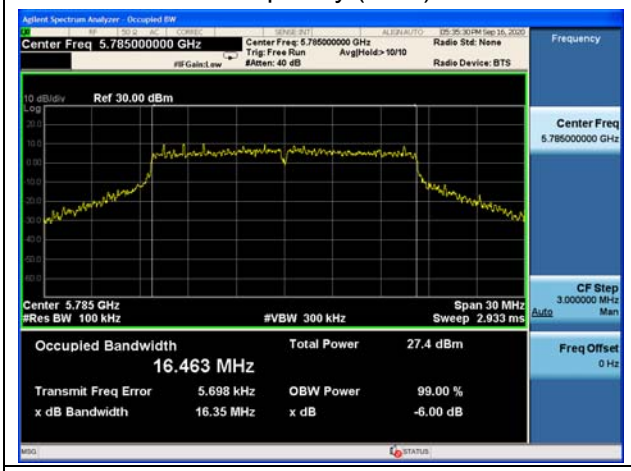


U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5745

U-NII-3, 802.11a

Carrier frequency (MHz): 5785

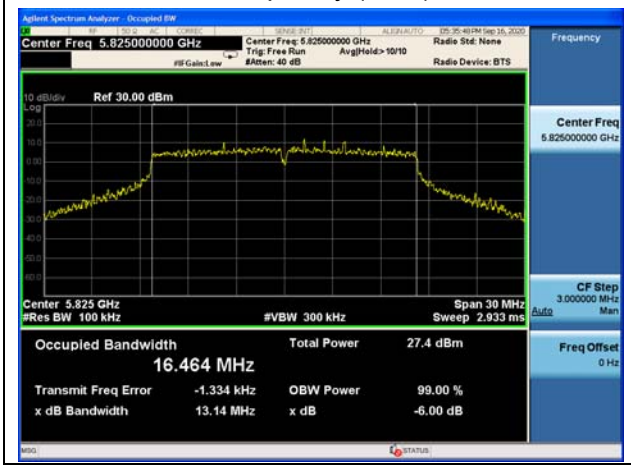


U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5785

U-NII-3, 802.11a

Carrier frequency (MHz): 5825

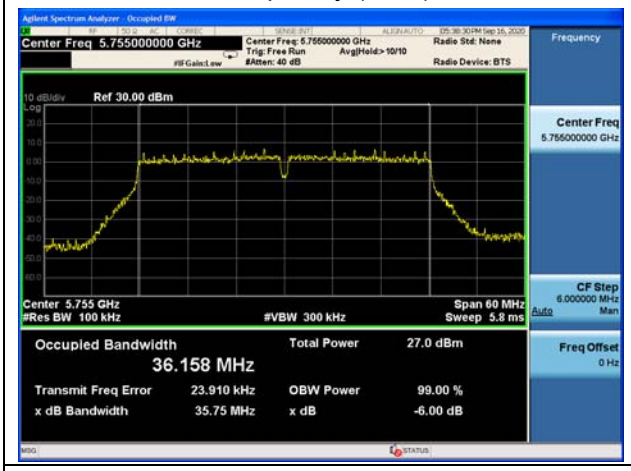


U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5825

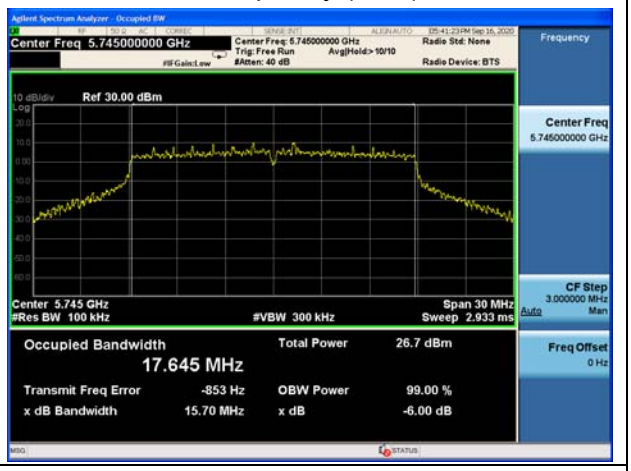
U-NII-3, 802.11n HT40

Carrier frequency (MHz): 5755



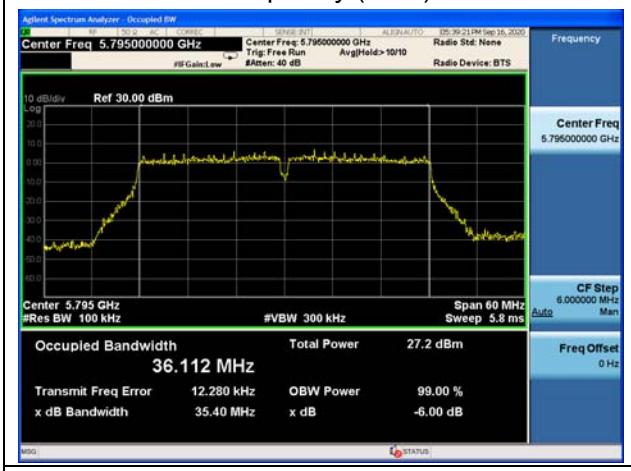
U-NII-3, 802.11ac VHT20

Carrier frequency (MHz): 5745



U-NII-3, 802.11n HT40

Carrier frequency (MHz): 5795

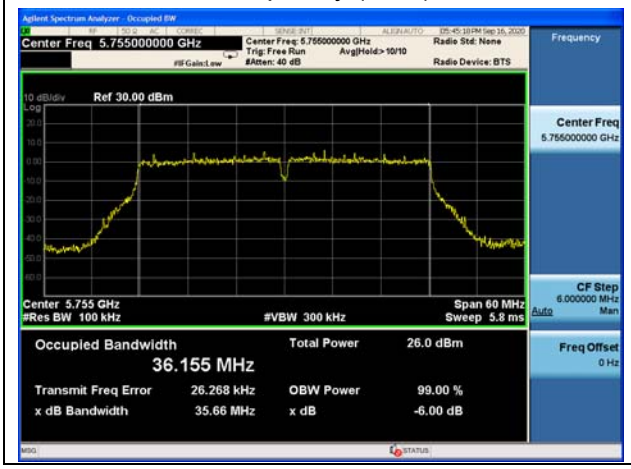


U-NII-3, 802.11ac VHT20

Carrier frequency (MHz): 5785

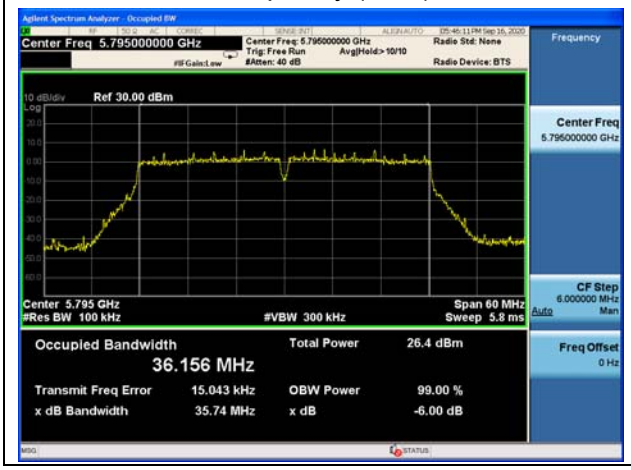
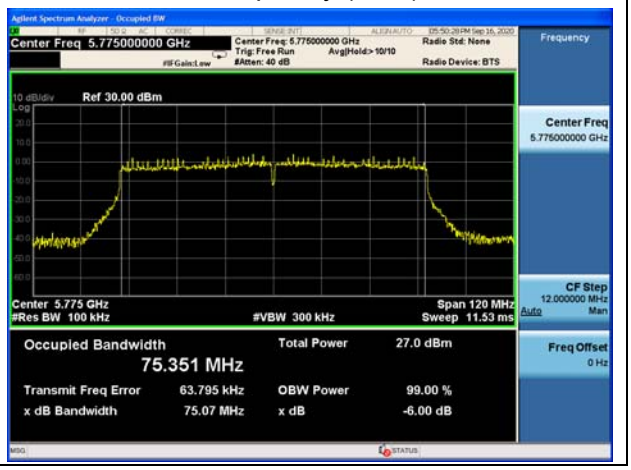
U-NII-3, 802.11ac VHT40

Carrier frequency (MHz): 5755



U-NII-3, 802.11ac VHT20

Carrier frequency (MHz): 5825

U-NII-3, 802.11ac VHT40 Carrier frequency (MHz): 5795	U-NII-3, 802.11ac VHT80 Carrier frequency (MHz): 5775
	

5.2. Average Power Output

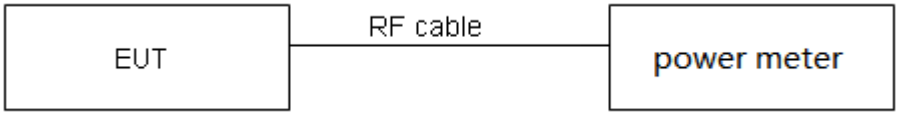
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the average power meter through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum average Conducted Output Power Level Method in KDB789033 for this test

Test Setup



Limits

Rule FCC Part 15.407(a)(1)(2)(3)
(1) For the band 5.15-5.25 GHz.
(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz 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.
(iii) For fixed point-to-point access points operating in the band 5.15-5.25 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 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. 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.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

(3)For the band 5.725-5.85 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.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.44 dB.

Test Results

Test Mode	T_{on} (ms)	$T_{(on+off)}$ (ms)	Duty cycle	Duty cycle correction Factor(dB)
802.11a	2.05	2.09	0.98	NA
802.11n HT20	1.91	1.94	0.98	NA
802.11n HT40	0.94	0.98	0.96	0.16
802.11ac VHT20	1.92	1.96	0.98	NA
802.11ac VHT40	0.94	0.98	0.96	0.16
802.11ac VHT80	0.46	0.50	0.93	0.33
Note: when Duty cycle≥0.98, Duty cycle correction Factor not required.				

Single Antenna Power Index						
Test Mode	**CH36**	**CH40**	**CH48**	**CH149**	**CH157**	**CH165**
802.11a	20	20	20	20	20	20
802.11n HT20	19.5	19.5	19.5	19.5	19.5	19.5
802.11ac VHT20	19	19	19	19	19	19
Test Mode	**CH38**	**CH46**	**CH151**	**CH159**	/	/
802.11n HT40	19	19	19	19	/	/
802.11ac VHT40	18	18	18	18	/	/
Test Mode	**CH42**	**CH155**	/	/	/	/
802.11ac VHT80	18	18	/	/	/	/

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	36/5180	21.50	21.50	24	PASS
	40/5200	21.36	21.36	24	PASS
	48/5240	21.09	21.09	24	PASS
802.11n HT20	36/5180	20.87	20.87	24	PASS
	40/5200	20.77	20.77	24	PASS
	48/5240	20.52	20.52	24	PASS
802.11n HT40	38/5190	20.78	20.94	24	PASS
	46/5230	20.55	20.71	24	PASS
802.11ac VHT20	36/5180	20.37	20.37	24	PASS
	40/5200	20.50	20.50	24	PASS

	48/5240	20.16	20.16	24	PASS
802.11ac VHT40	38/5190	19.78	19.94	24	PASS
	46/5230	19.72	19.88	24	PASS
802.11ac VHT80	42/5210	19.62	19.95	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	149/5745	21.07	21.07	30	PASS
	157/5785	21.31	21.31	30	PASS
	165/5825	21.38	21.38	30	PASS
802.11n HT20	149/5745	20.47	20.47	30	PASS
	157/5785	20.58	20.58	30	PASS
	165/5825	20.72	20.72	30	PASS
802.11n HT40	151/5755	20.41	20.57	30	PASS
	159/5795	20.63	20.79	30	PASS
802.11ac VHT20	149/5745	20.22	20.22	30	PASS
	157/5785	20.15	20.15	30	PASS
	165/5825	20.44	20.44	30	PASS
802.11ac VHT40	151/5755	19.50	19.66	30	PASS
	159/5795	19.76	19.92	30	PASS
802.11ac VHT80	155/5775	19.39	19.72	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

5.3. Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

1. Frequency stability with respect to ambient temperature

a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.

b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.

c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.

e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.

f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

g) Measure the frequency at each of frequencies specified in 5.6.

h) Switch OFF the EUT but do not switch OFF the oscillator heater.

i) Lower the chamber temperature by not more that 10°C, and allow the temperature inside the chamber to stabilize.

j) Repeat step f) through step i) down to the lowest specified temperature.

2. Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature (+15°C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.

b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
c) Measure the frequency at each of the frequencies specified in 5.6.
d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936Hz

Test Results

Voltage (V)	Temperature (°C)	U-NII-1 Test Results			
		5200MHz			
		1min	2min	5min	10min
4.0	-10	5200.009687	5200.001254	5199.994275	5199.993091
4.0	0	5200.007566	5199.994999	5199.993791	5199.988827
4.0	10	5200.003750	5199.987875	5199.987102	5199.988510
4.0	20	5200.003687	5199.979445	5199.985229	5199.979153
4.0	30	5200.002662	5199.970315	5199.984119	5199.975492
4.0	40	5199.992700	5199.964863	5199.982588	5199.973834
4.0	50	5199.987863	5199.959574	5199.973028	5199.968611
4.0	55	5199.978122	5199.954577	5199.968909	5199.959746
3.5	25	5199.976726	5199.949492	5199.961031	5199.953584
4.4	25	5199.972924	5199.945526	5199.956703	5199.945429
MHz		-0.027076	-0.054474	-0.043297	-0.054571
PPM		-5.206891	-10.475830	-8.326284	-10.494500

Voltage (V)	Temperature (°C)	U-NII-3 Test Results			
		5785MHz			
		1min	2min	5min	10min
4.0	-10	5785.000233	5784.999546	5784.990037	5784.983857
4.0	0	5784.991545	5784.997888	5784.983957	5784.975444
4.0	10	5784.990447	5784.997583	5784.974476	5784.969288
4.0	20	5784.983231	5784.987606	5784.970848	5784.964249
4.0	30	5784.980538	5784.984150	5784.969037	5784.956894
4.0	40	5784.979294	5784.979853	5784.962011	5784.948461
4.0	50	5784.974974	5784.973140	5784.957178	5784.938737
4.0	55	5784.970432	5784.970472	5784.956745	5784.938480
3.5	25	5784.963608	5784.969984	5784.955986	5784.930416
4.4	25	5784.954723	5784.969525	5784.949510	5784.929903
MHz		-0.045277	-0.030475	-0.050490	-0.070097
PPM		-7.826604	-5.267902	-8.727778	-12.117073

5.4. Power Spectral Density

Ambient condition

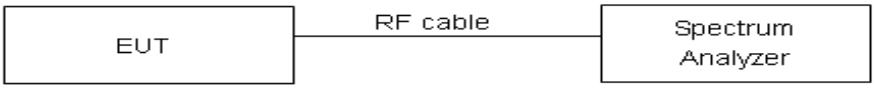
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 1MHz, VBW =3MHz for the band 5.150-5.250GHz,.
Set RBW = 470kHz, VBW =1.5MHz for the band 5.725-5.850GHz

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.



Test setup

Limits

Rule FCC Part 15.407(a)(1)/ Part 15.407(a)(2) / Part 15.407(a)(3)
For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz 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.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.
For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band. If transmittingantennas 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.

Frequency Bands/MHz	Limits
5150-5250	11dBm/MHz
5725-5850	30dBm/500kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.75dB.

Test Results:

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-1

Test Mode	Channel Number	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36	9.80	9.80	11	PASS
	40	9.95	9.95	11	PASS
	48	9.79	9.79	11	PASS
802.11n HT20	36	9.30	9.30	11	PASS
	40	9.13	9.13	11	PASS
	48	8.85	8.85	11	PASS
802.11n HT40	38	5.89	6.05	11	PASS
	46	5.86	6.02	11	PASS
802.11ac VHT20	36	8.86	8.86	11	PASS
	40	8.63	8.63	11	PASS
	48	8.18	8.18	11	PASS
802.11ac VHT40	38	4.88	5.04	11	PASS
	46	4.92	5.08	11	PASS
802.11ac VHT80	42	1.69	2.02	11	PASS

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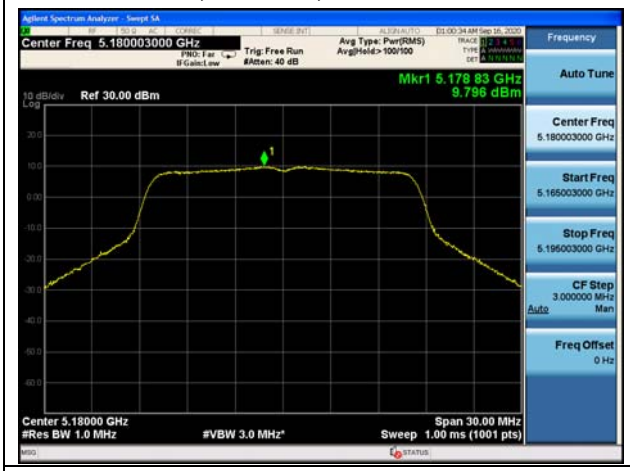
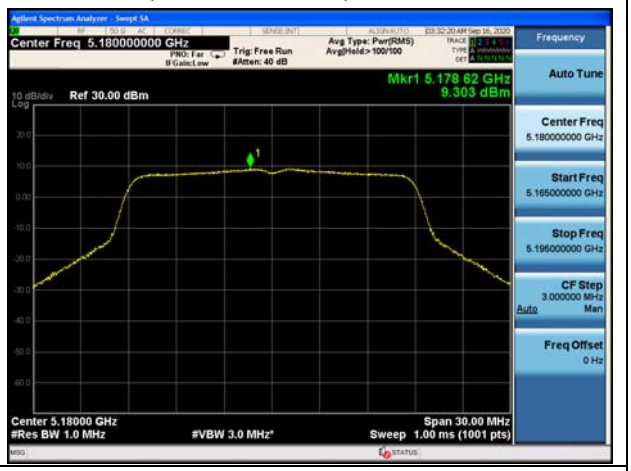
Test Mode	Channel Number	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	149	7.49	7.76	30	PASS
	157	7.22	7.49	30	PASS
	165	7.55	7.82	30	PASS
802.11n HT20	149	6.51	6.78	30	PASS
	157	6.40	6.67	30	PASS
	165	6.47	6.74	30	PASS
802.11n HT40	151	3.16	3.59	30	PASS
	159	3.55	3.98	30	PASS
802.11ac VHT20	149	6.19	6.46	30	PASS
	157	5.91	6.18	30	PASS

	165	5.83	6.10	30	PASS
802.11ac VHT40	151	2.14	2.57	30	PASS
	159	2.66	3.09	30	PASS
802.11ac VHT80	155	-0.49	0.10	30	PASS
Note:PSD=Read Value+Duty cycle+10*LOG(500/470) correction factor					

U-NII-1, 802.11a, Channel No.: 36



U-NII-1, 802.11n HT20, Channel No.: 36



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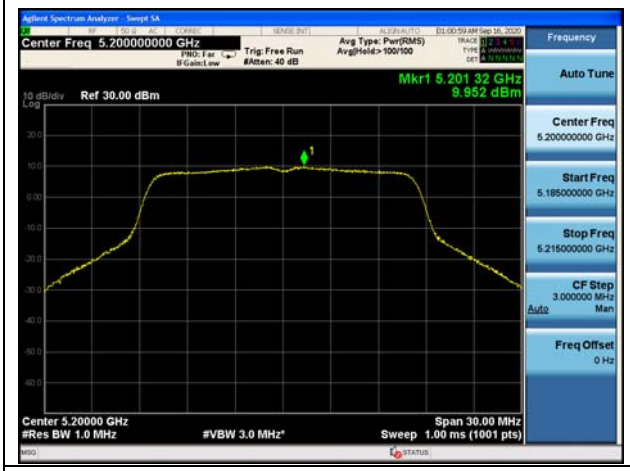
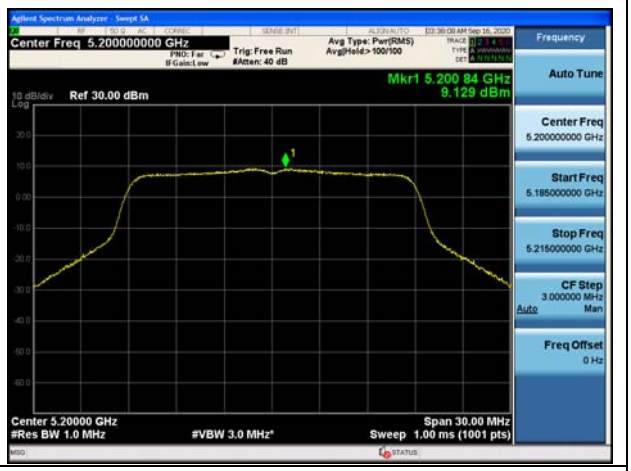
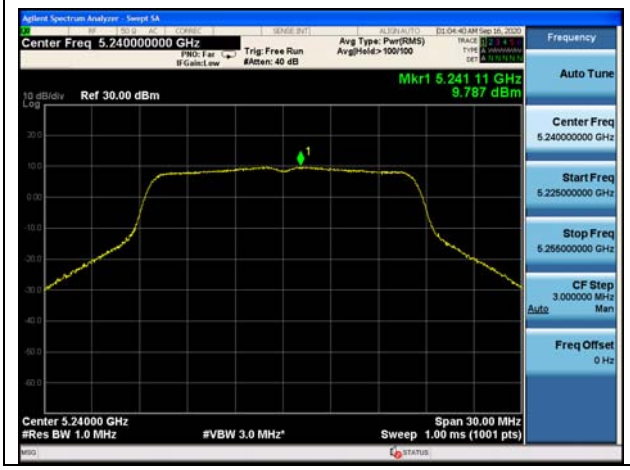


U-NII-1, 802.11n HT20, Channel No.: 40

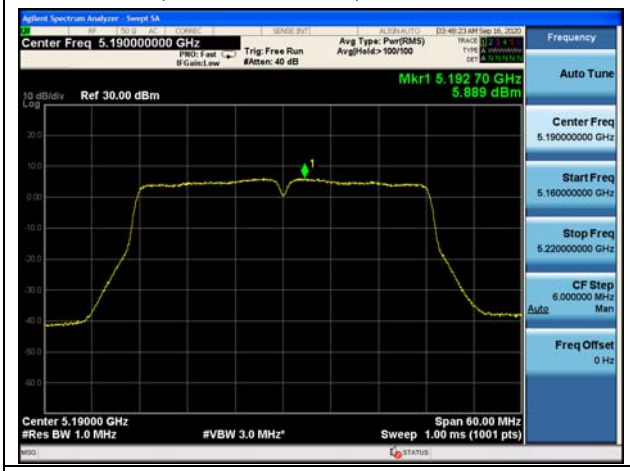


U-NII-1, 802.11a, Channel No.: 48

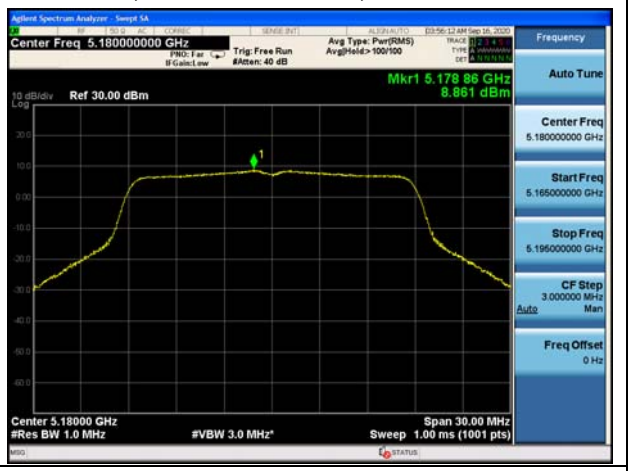


U-NII-1, 802.11n HT20, Channel No.: 48

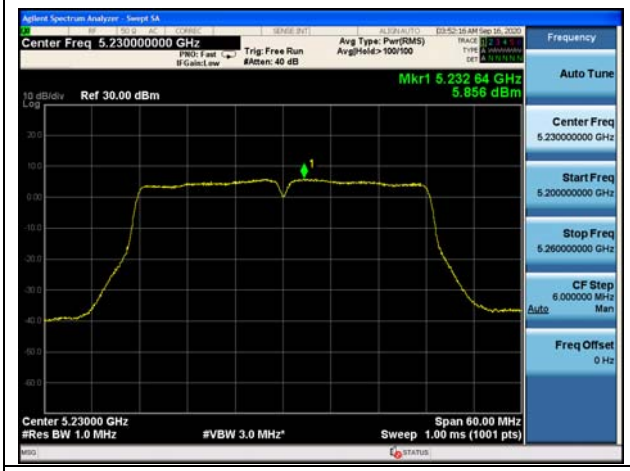
U-NII-1, 802.11n HT40, Channel No.: 38



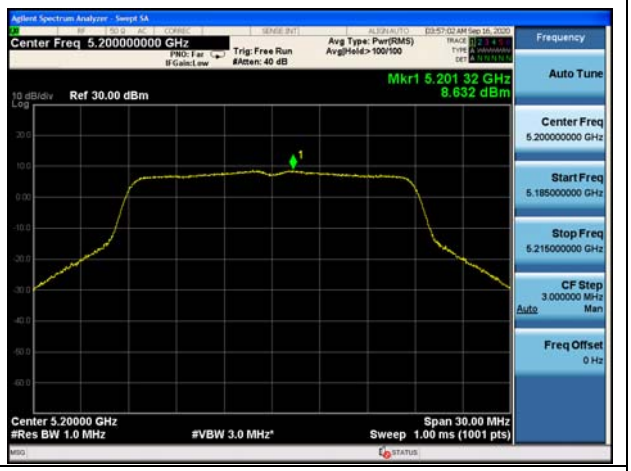
U-NII-1, 802.11ac VHT20, Channel No.: 36



U-NII-1, 802.11n HT40, Channel No.: 46

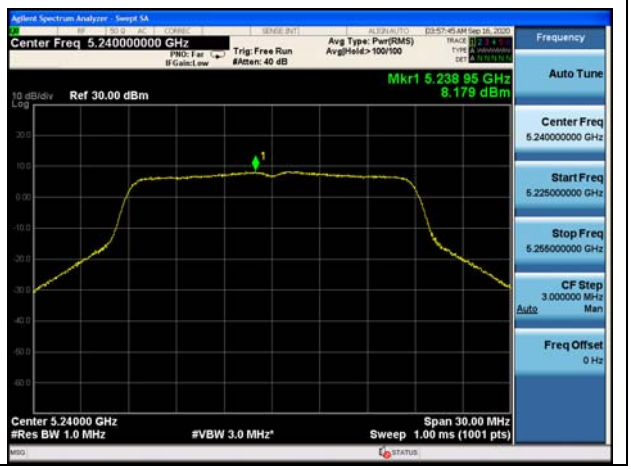


U-NII-1, 802.11ac VHT20, Channel No.: 40

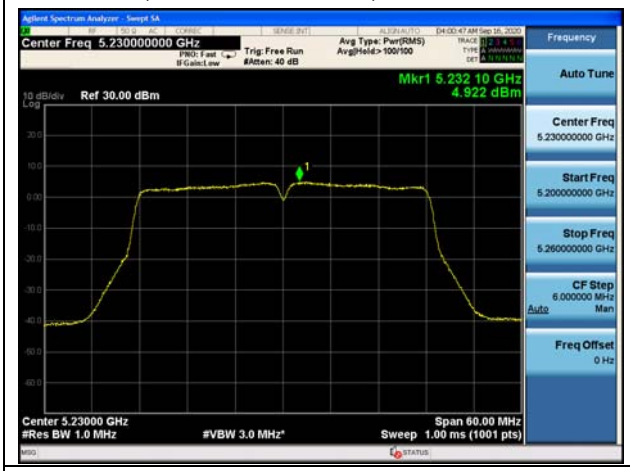


U-NII-1, 802.11ac VHT40, Channel No.: 38

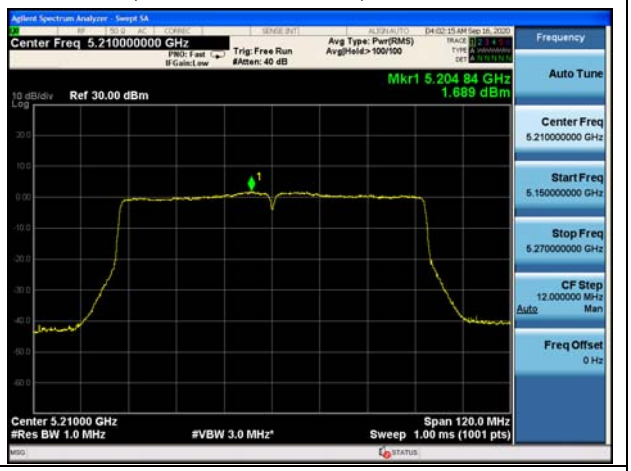
U-NII-1, 802.11ac VHT20, Channel No.: 48



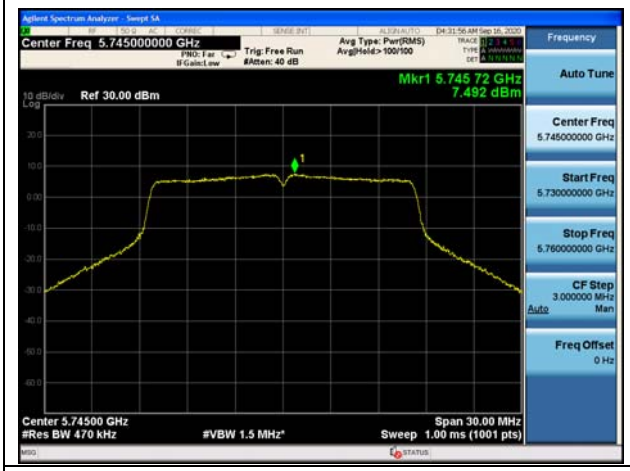
U-NII-1, 802.11ac VHT40, Channel No.: 46



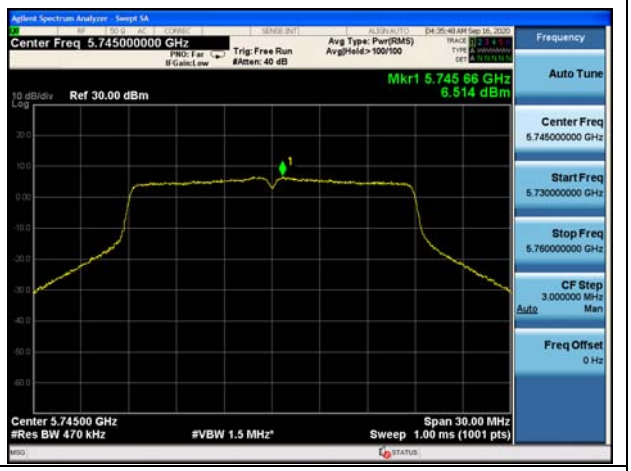
U-NII-1, 802.11ac VHT80, Channel No.: 42



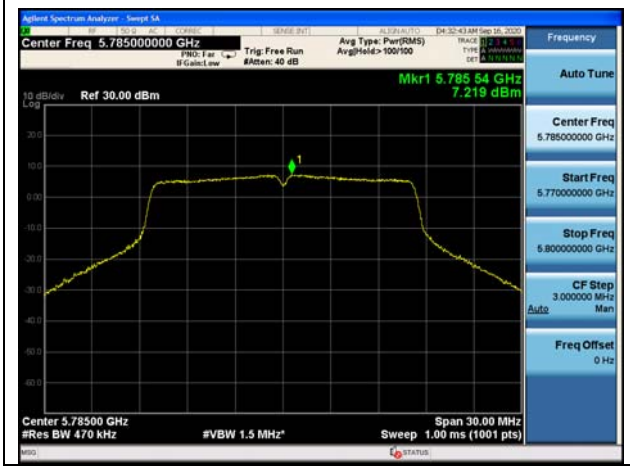
U-NII-3, 802.11a, Channel No.: 149



U-NII-3, 802.11n HT20, Channel No.: 149



U-NII-3, 802.11a, Channel No.: 157



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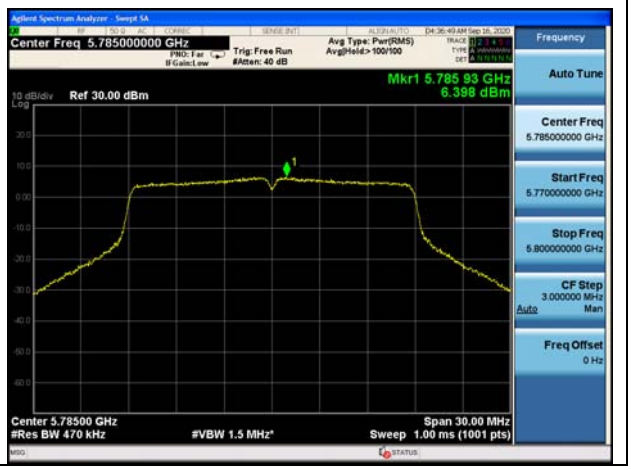
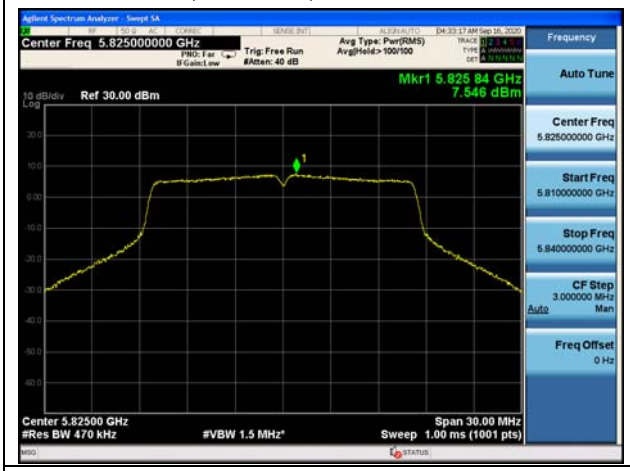
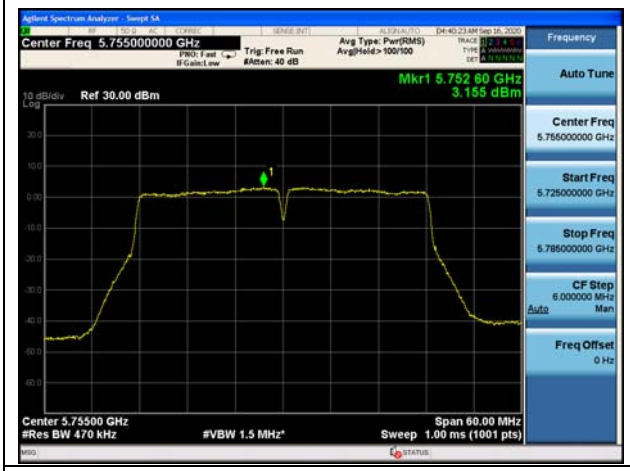


U-NII-3, 802.11a, Channel No.: 165

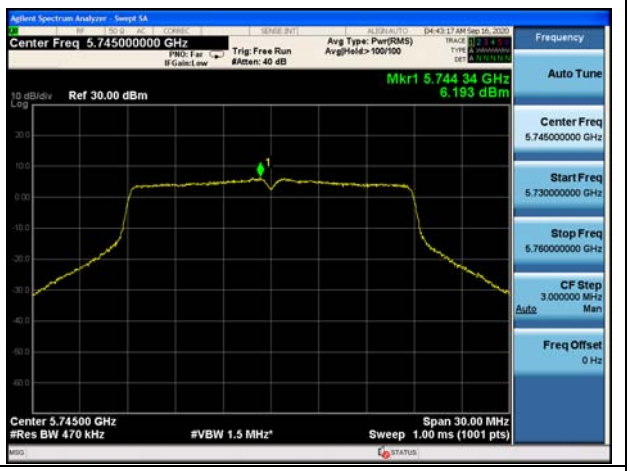


U-NII-3, 802.11n HT20, Channel No.: 165

U-NII-3, 802.11n HT40, Channel No.: 151

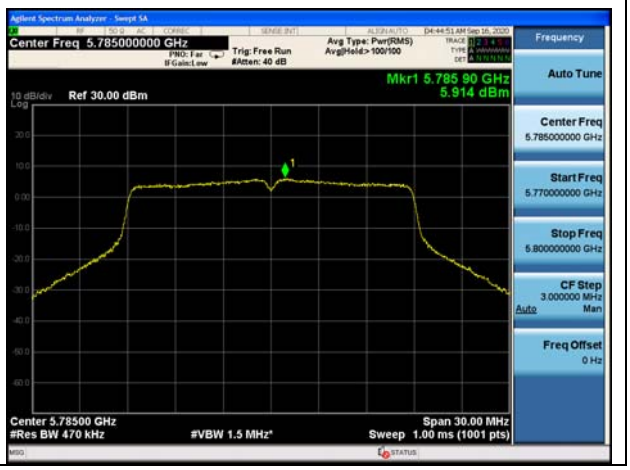


U-NII-3, 802.11ac VHT20, Channel No.: 149

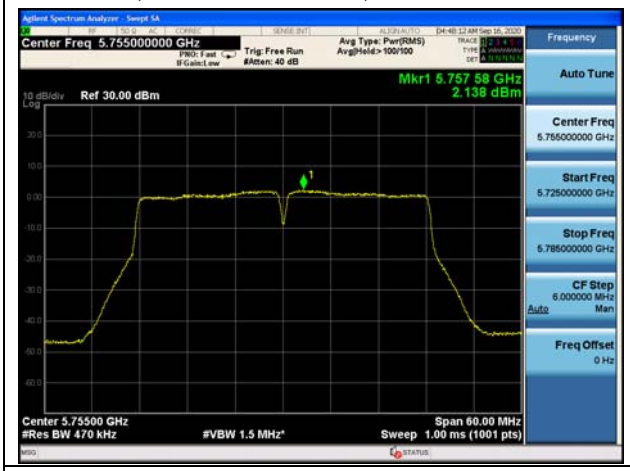


U-NII-3, 802.11n HT40, Channel No.: 159

U-NII-3, 802.11ac VHT20, Channel No.: 157



U-NII-3, 802.11ac VHT40, Channel No.: 151



U-NII-3, 802.11ac VHT20, Channel No.: 165

U-NII-3, 802.11ac VHT40, Channel No.: 159

U-NII-3, 802.11ac VHT80, Channel No.: 155

5.5. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.
Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.
Set the spectrum analyzer in the following:
9kHz~150 kHz
RBW=200Hz, VBW=1kHz/ Sweep=AUTO
150 kHz~30MHz
RBW=9KHz, VBW=30KHz,/ Sweep=AUTO
Below 1GHz
RBW=100kHz / VBW=300kHz / Sweep=AUTO
a) Peak emission levels are measured by setting the instrument as follows:
Above 1GHz
PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
b) Average emission levels are measured by setting the instrument as follows:
Above 1GHz
AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO
c) Detector: The measurements employing a 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.
d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
e) Sweep time = auto.
f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific

emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

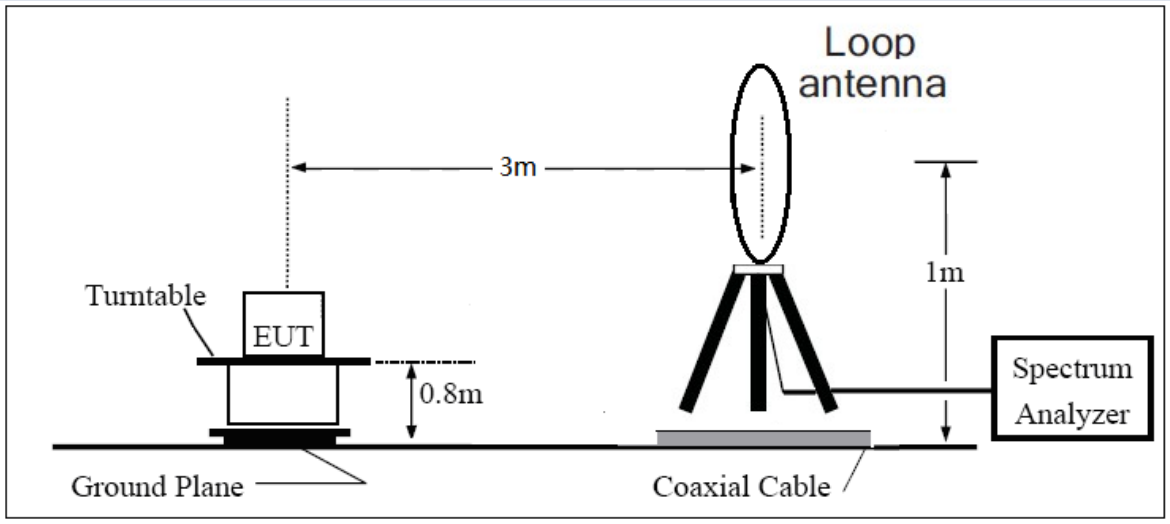
3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than [1 / (minimum transmitter on time)] and no less than 1 Hz.

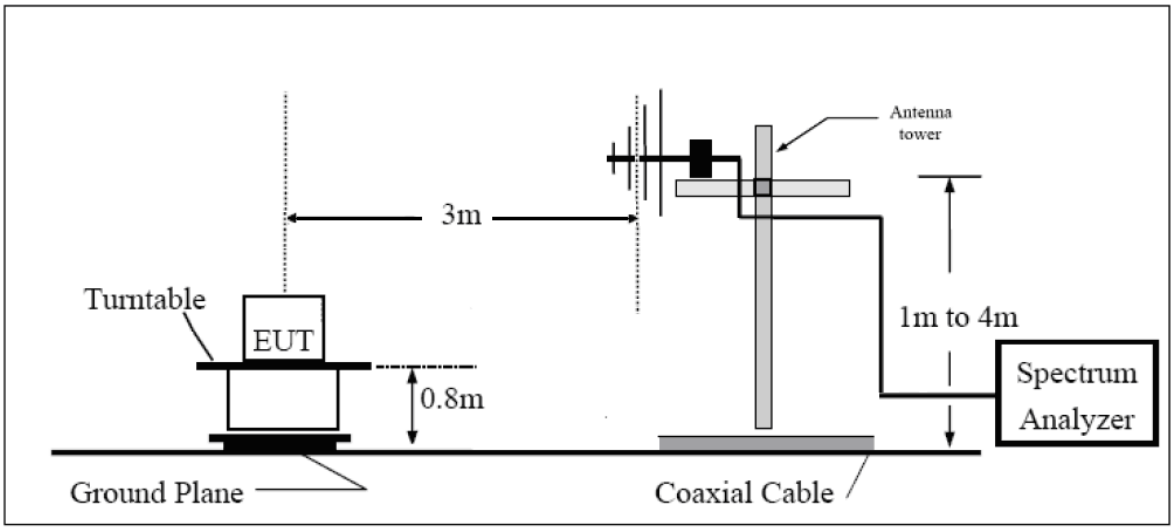
The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

The test is in transmitting mode.

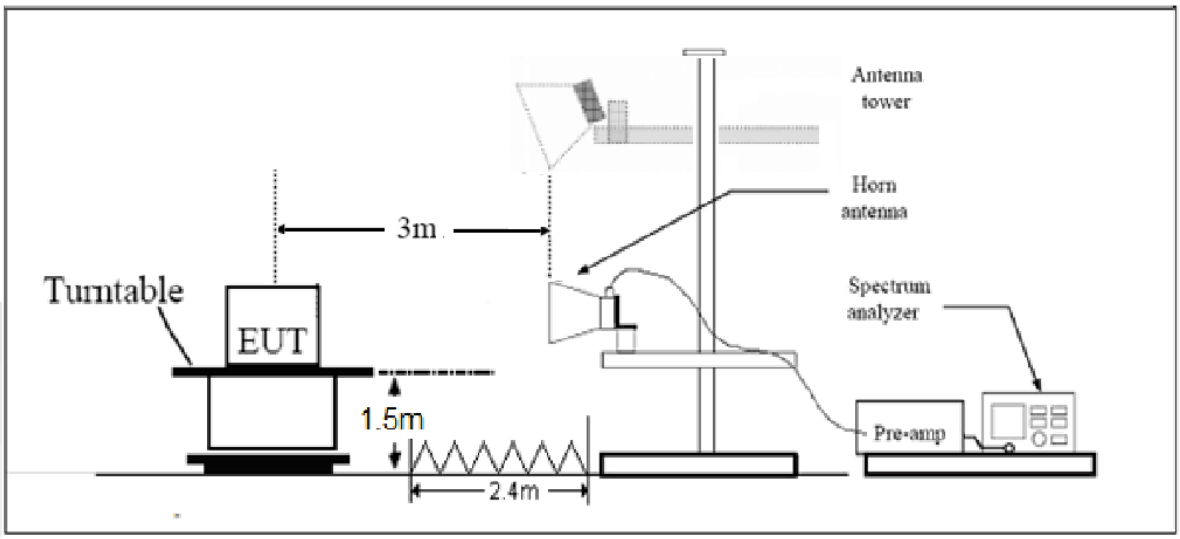
9KHz~~~30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

(1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz(68.2dBμV/m).

(3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz(68.2dBμV/m).

(4) 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 e.i.r.p. of −27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、E[dBμV/m] = EIRP[dBm] - 20 log(d[meters]) + 104.77, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters

(5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

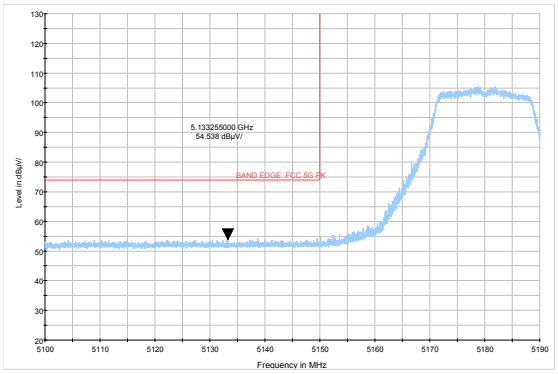
Test Results:

The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

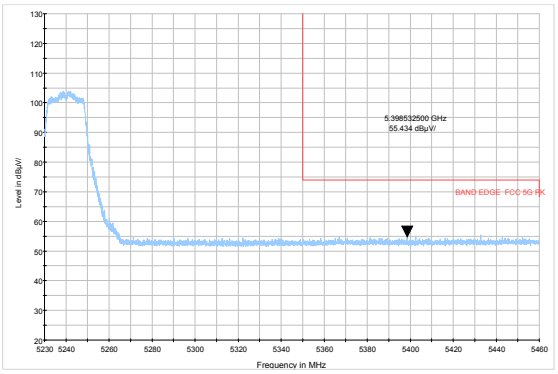
The signal beyond the limit is carrier.

U-NII-1

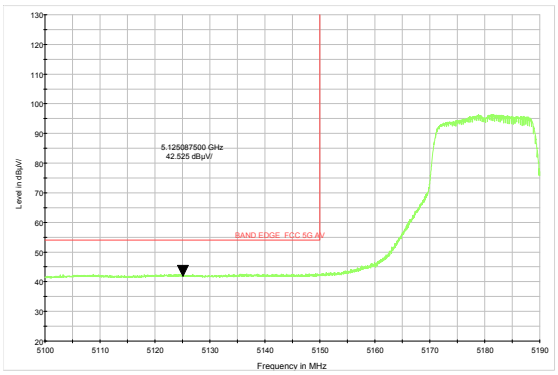
802.11a-Channel 36: Peak



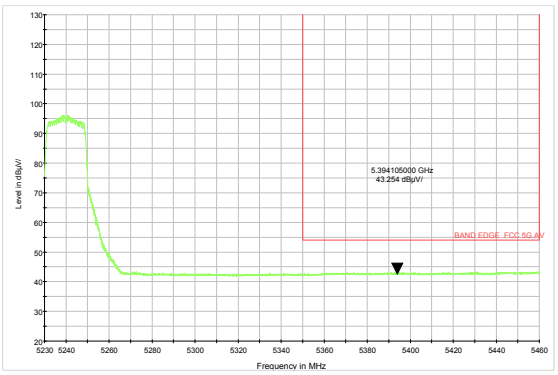
802.11a-Channel 48: Peak



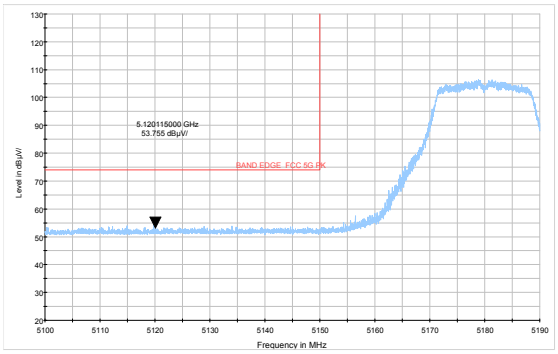
802.11a-Channel 36: Average



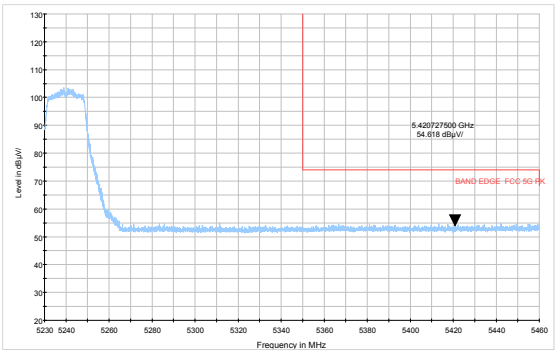
802.11a-Channel 48: Average



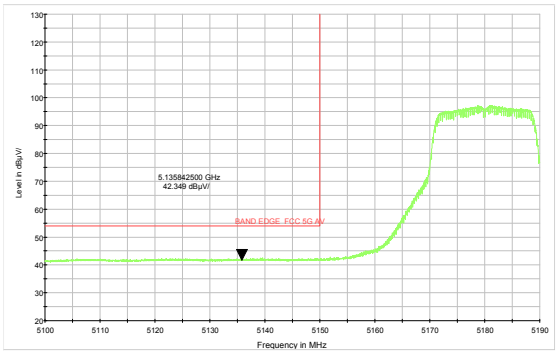
802.11n HT20-Channel 36: Peak



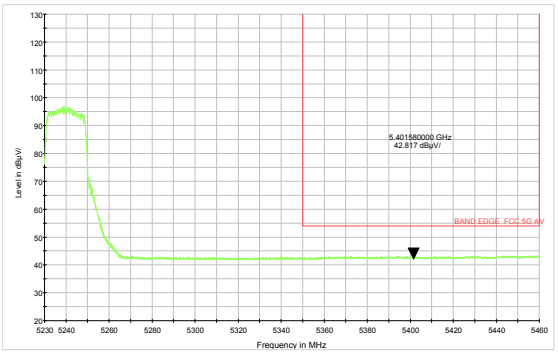
802.11n HT20-Channel 48: Peak



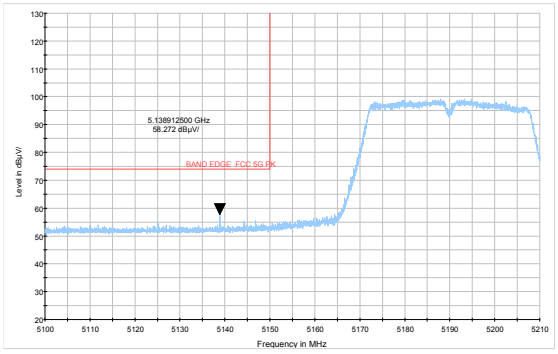
802.11n HT20-Channel 36: Average



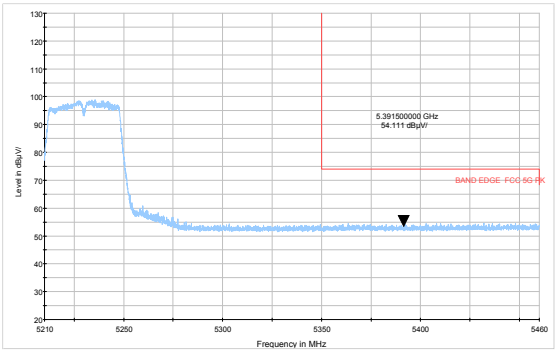
802.11n HT20-Channel 48: Average



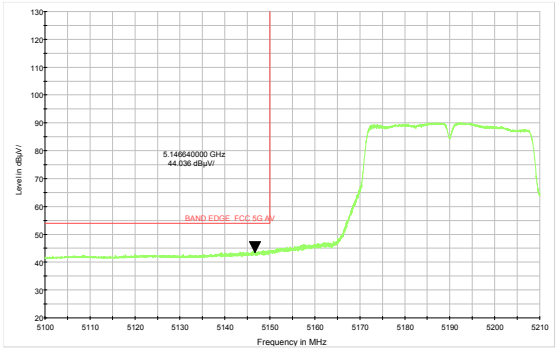
802.11n HT40-Channel 38: Peak



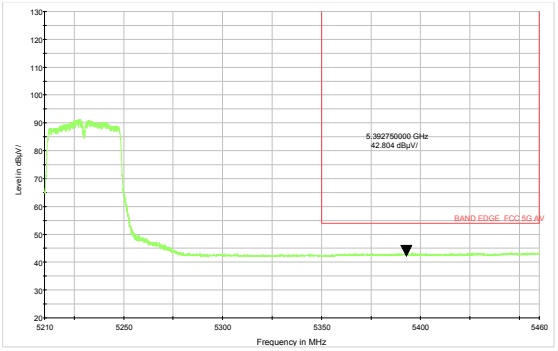
802.11n HT40-Channel 46: Peak



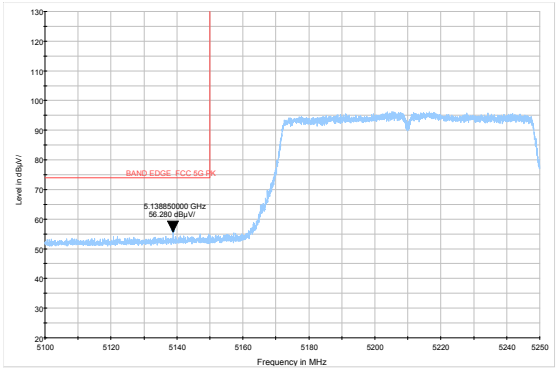
802.11n HT40-Channel 38: Average



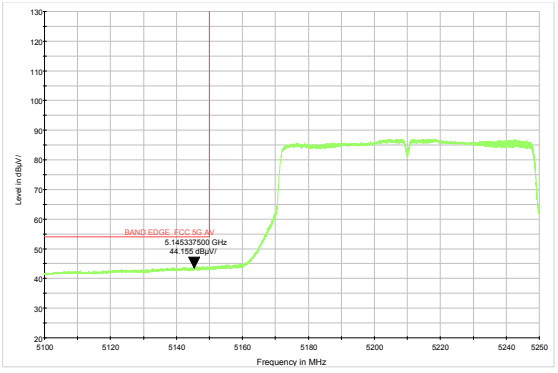
802.11n HT40-Channel 46: Average



802.11ac VHT80 –Channel 42: Peak

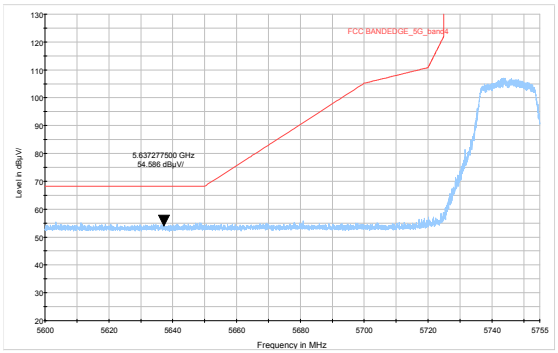


802.11ac VHT80- Channel 42: Average

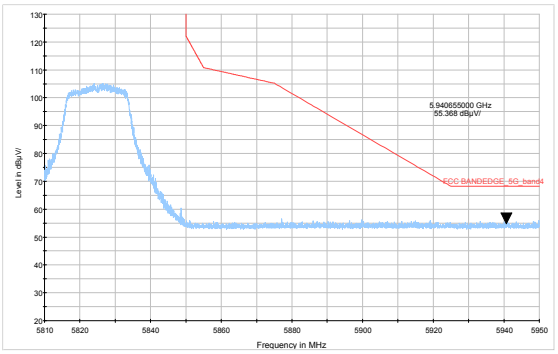


U-NII-3

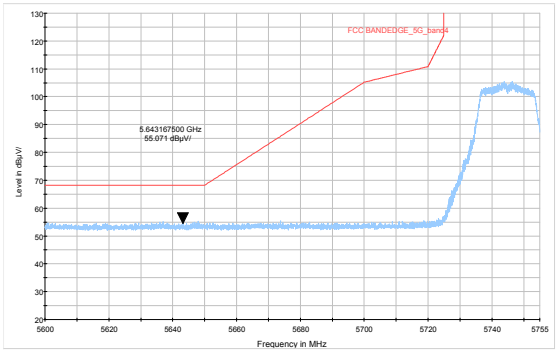
802.11a-Channel 149: Peak



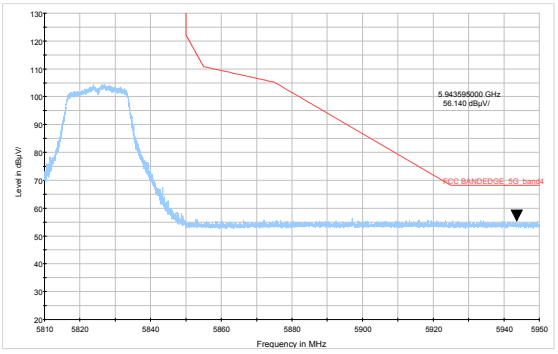
802.11a-Channel 165: Peak



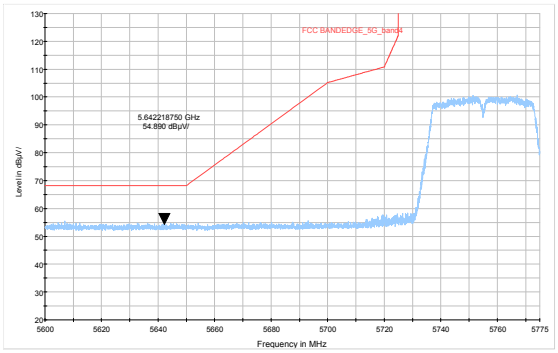
802.11n HT20-Channel 149: Peak



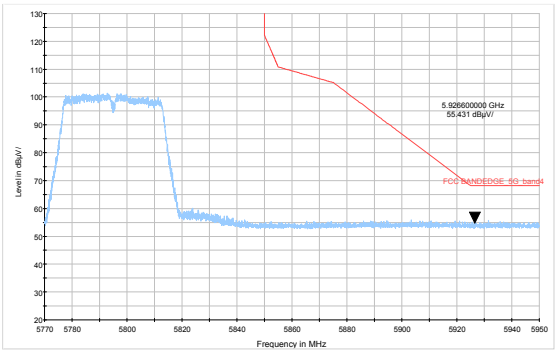
802.11n HT20-Channel 165: Peak



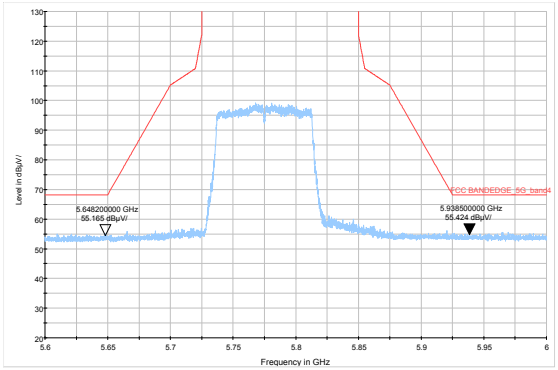
802.11n HT40-Channel 151: Peak



802.11n HT40-Channel 159: Peak



802.11ac VHT80- Channel 155: Peak



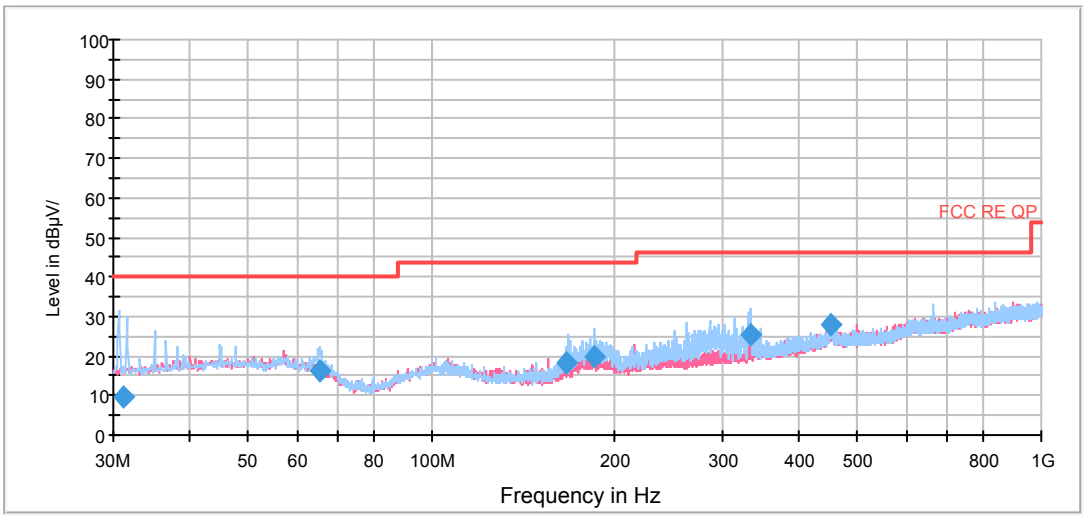
Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 26.5GHz-40GHz are more than 20dB below the limit are not reported.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11n (HT40) CH46 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.086250	9.4	225.0	H	125.0	12.6	30.6	40.0
65.325000	16.2	217.0	H	346.0	12.4	23.8	40.0
166.572500	18.0	189.0	H	267.0	10.7	25.5	43.5
185.158750	19.9	114.0	H	81.0	12.2	23.6	43.5
333.045000	25.6	100.0	H	36.0	16.9	20.4	46.0
450.818750	27.9	189.0	H	102.0	19.4	18.1	46.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

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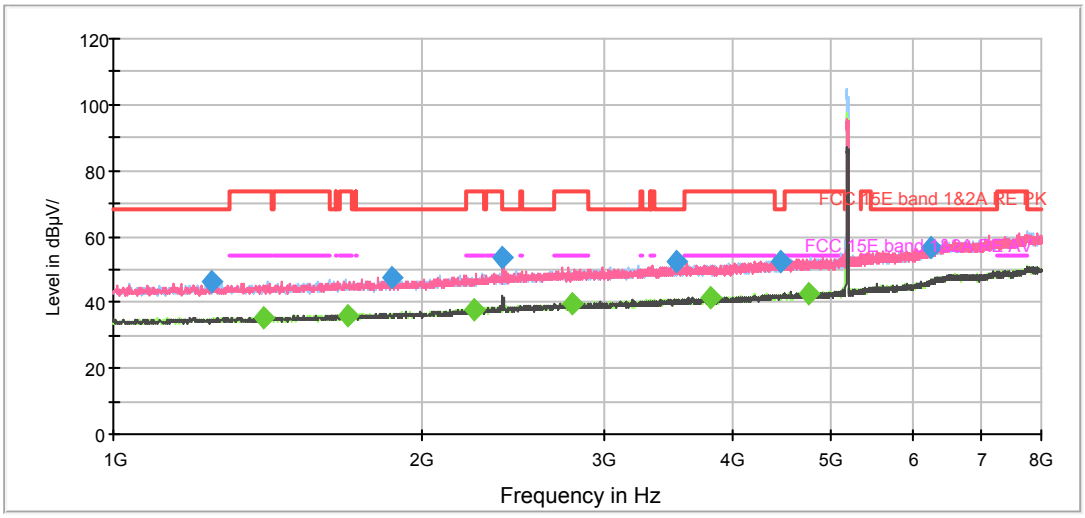
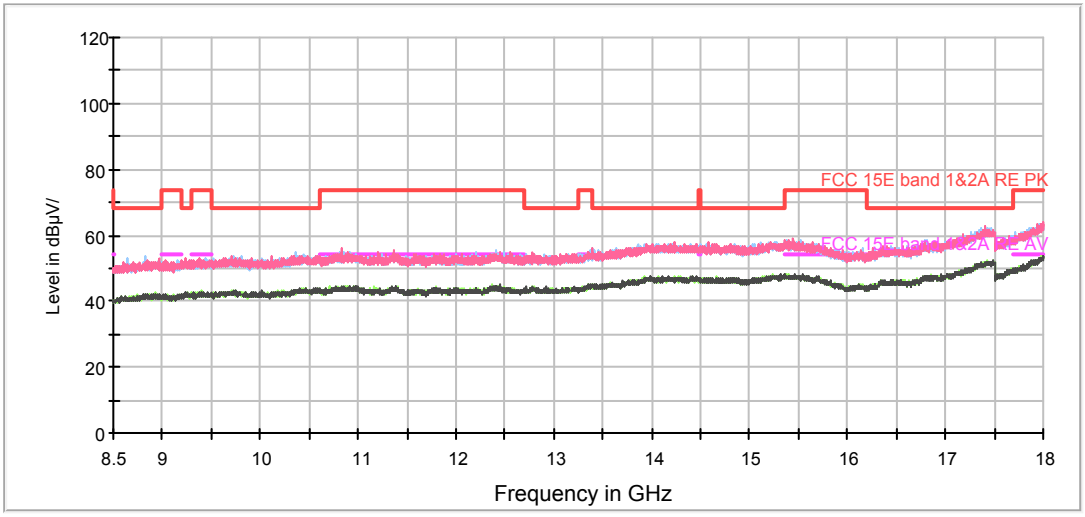


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

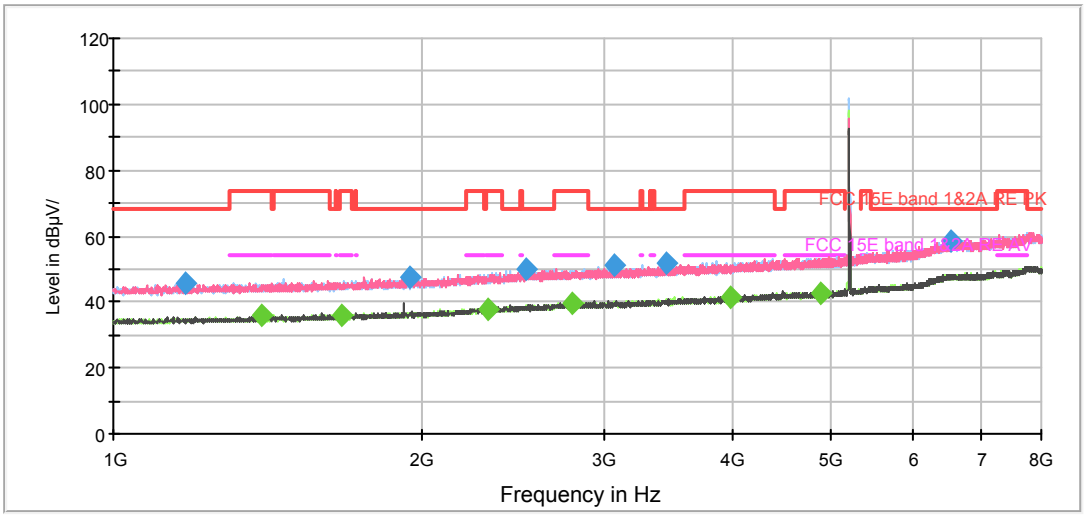
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1248.500000	46.2	200.0	H	0.0	-1.1	22.0	68.2
1863.625000	47.5	200.0	V	17.0	0.8	20.7	68.2
2390.375000	53.6	100.0	V	197.0	3.2	14.6	68.2
3533.125000	52.7	100.0	H	352.0	6.3	15.5	68.2
4453.625000	52.5	200.0	V	58.0	8.7	15.7	68.2
6251.750000	56.8	200.0	V	88.0	13.5	11.4	68.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1400.750000	35.6	200.0	V	0.0	-0.7	18.4	54.0
1690.375000	36.0	200.0	H	224.0	0.4	18.0	54.0
2246.000000	38.0	200.0	V	72.0	2.4	16.0	54.0
2799.875000	39.5	100.0	H	97.0	4.3	14.5	54.0
3814.875000	41.6	200.0	V	0.0	6.8	12.4	54.0
4744.125000	42.6	200.0	V	58.0	9.2	11.4	54.0

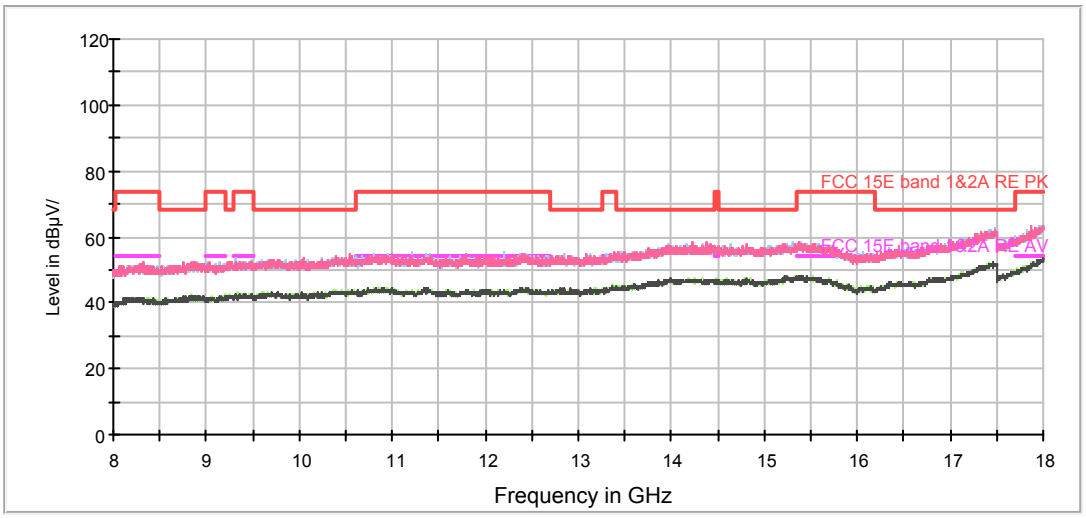
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH40



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

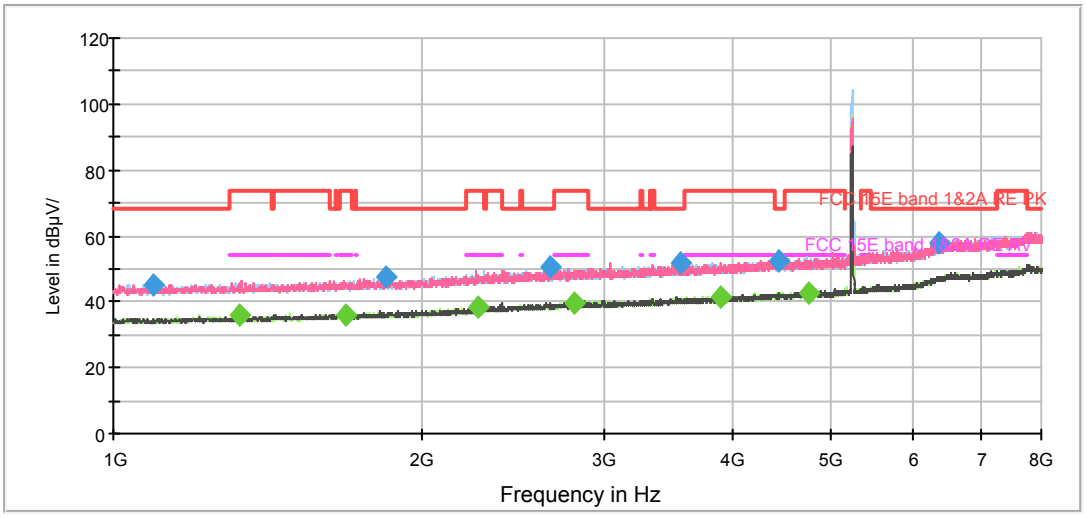
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1174.125000	45.5	200.0	V	235.0	-1.3	22.7	68.2
1940.625000	47.8	100.0	H	190.0	1.0	20.4	68.2
2526.000000	49.8	100.0	V	95.0	3.6	18.4	68.2
3067.625000	50.9	100.0	H	0.0	5.0	17.3	68.2
3460.500000	51.6	200.0	H	0.0	6.0	16.6	68.2
6550.125000	58.5	200.0	V	0.0	15.0	9.7	68.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1396.375000	35.6	200.0	H	4.0	-0.7	18.4	54.0
1668.500000	35.7	100.0	V	29.0	0.3	18.3	54.0
2315.125000	37.9	100.0	H	297.0	2.8	16.1	54.0
2799.875000	39.6	200.0	H	108.0	4.3	14.4	54.0
3991.625000	41.5	100.0	V	4.0	7.2	12.5	54.0
4883.250000	42.7	100.0	H	77.0	9.5	11.3	54.0

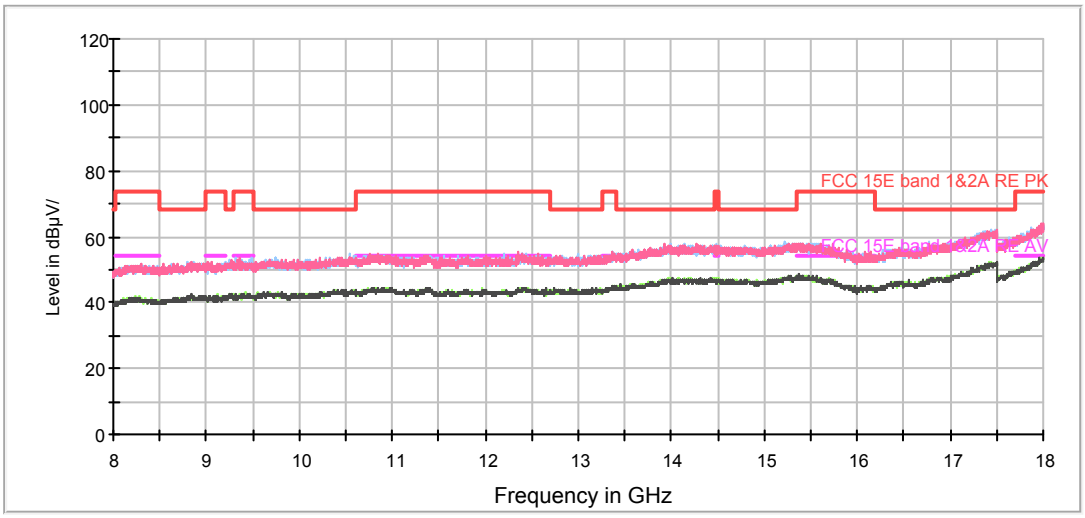
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH48



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

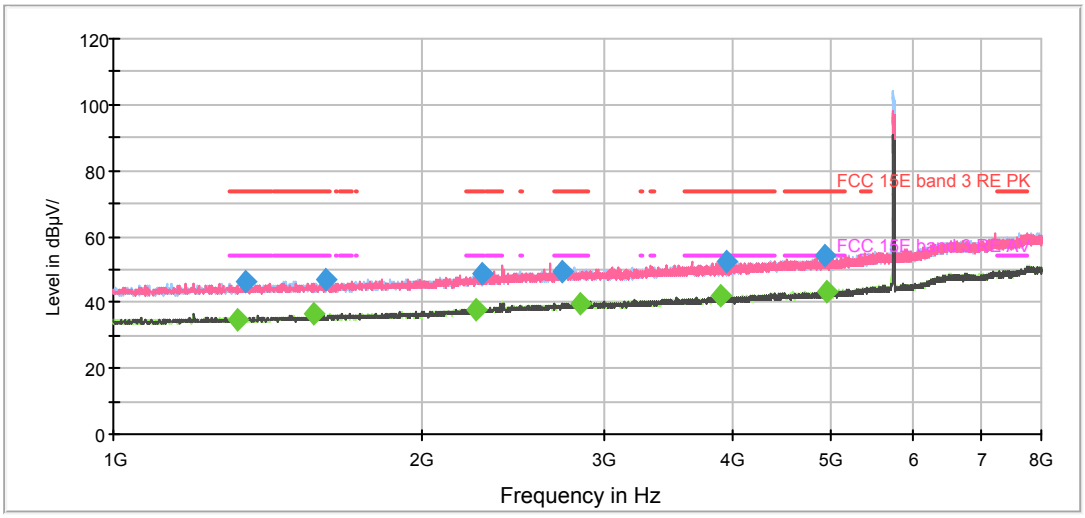
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1094.500000	45.4	100.0	H	342.0	-1.4	22.8	68.2
1845.250000	47.7	200.0	V	0.0	0.7	20.5	68.2
2659.000000	50.9	200.0	V	0.0	3.9	17.3	68.2
3558.500000	51.8	200.0	H	240.0	6.3	16.4	68.2
4445.750000	52.4	200.0	V	162.0	8.6	15.8	68.2
6359.375000	57.8	100.0	V	0.0	14.2	10.4	68.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

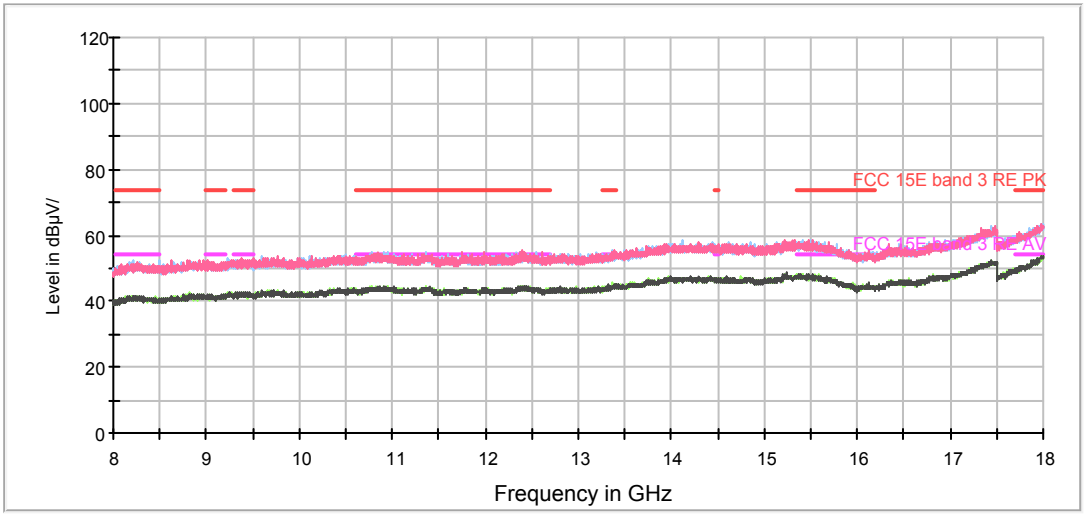
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1329.000000	35.9	200.0	H	240.0	-0.9	18.1	54.0
1681.625000	36.1	100.0	V	132.0	0.3	17.9	54.0
2262.625000	38.2	100.0	V	225.0	2.6	15.8	54.0
2806.875000	39.6	200.0	V	85.0	4.3	14.4	54.0
3891.875000	41.5	200.0	V	7.0	7.1	12.5	54.0
4761.625000	42.6	200.0	V	0.0	9.3	11.4	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH149



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

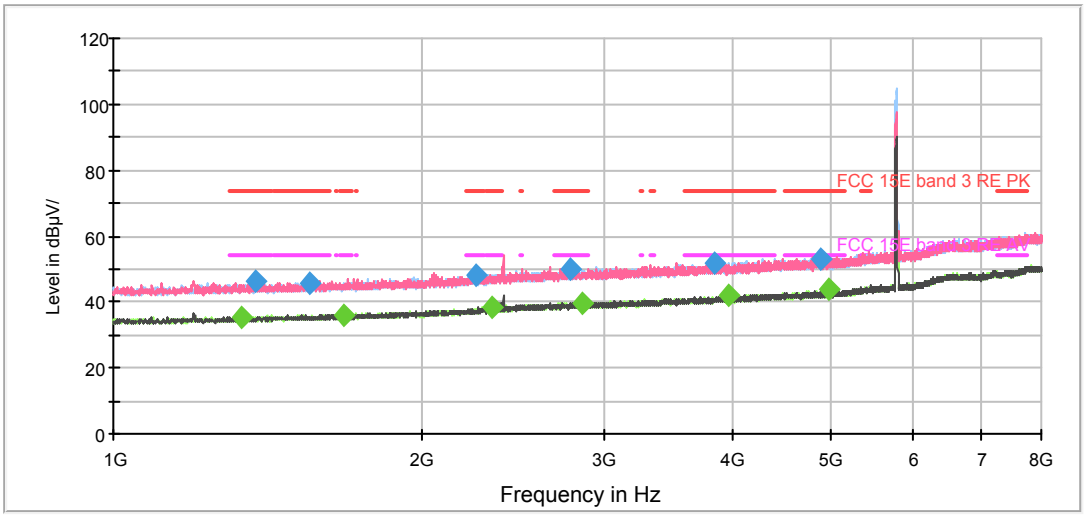
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1343.875000	46.5	100.0	H	263.0	-0.9	27.5	74.0
1609.000000	46.9	100.0	V	158.0	0.0	27.1	74.0
2285.375000	48.8	200.0	V	30.0	2.7	25.2	74.0
2739.500000	49.3	200.0	V	190.0	4.1	24.7	74.0
3951.375000	52.4	200.0	H	169.0	7.1	21.6	74.0
4934.875000	54.4	200.0	V	289.0	9.5	19.6	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

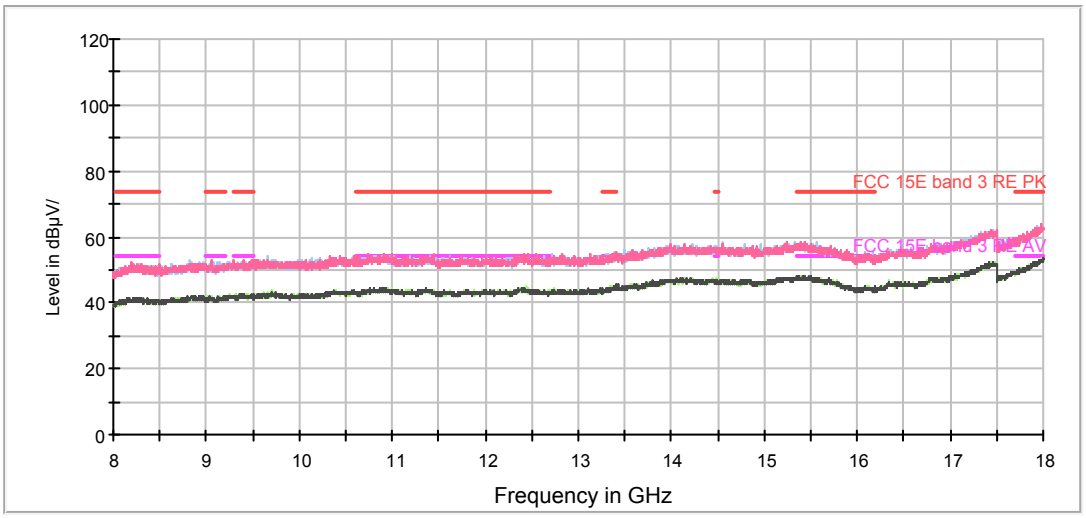
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1322.875000	34.7	200.0	V	327.0	-0.9	19.3	54.0
1564.375000	36.4	100.0	H	105.0	-0.2	17.6	54.0
2253.875000	37.8	200.0	H	217.0	2.5	16.2	54.0
2842.750000	39.6	200.0	H	329.0	4.4	14.4	54.0
3896.250000	41.8	200.0	H	122.0	7.1	12.2	54.0
4937.500000	43.1	200.0	H	338.0	9.5	10.9	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH157



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

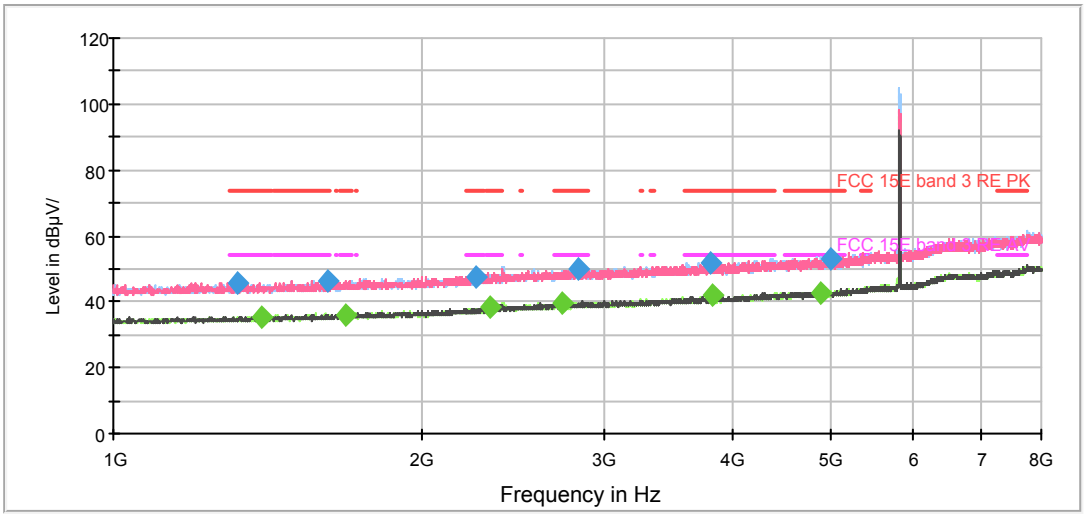
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1373.625000	46.2	200.0	V	0.0	-0.8	27.8	74.0
1554.750000	45.9	200.0	V	2.0	-0.2	28.1	74.0
2253.875000	47.9	200.0	H	174.0	2.5	26.1	74.0
2786.750000	49.9	100.0	H	220.0	4.2	24.1	74.0
3854.250000	51.9	200.0	V	108.0	6.9	22.1	74.0
4878.875000	52.8	200.0	H	235.0	9.5	21.2	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1332.500000	35.6	200.0	V	301.0	-0.9	18.4	54.0
1676.375000	35.8	100.0	V	77.0	0.3	18.2	54.0
2337.875000	38.6	200.0	H	359.0	3.0	15.4	54.0
2855.000000	39.7	100.0	V	1.0	4.4	14.3	54.0
3975.875000	41.9	200.0	V	108.0	7.1	12.1	54.0
4971.625000	43.8	200.0	V	154.0	9.5	10.2	54.0

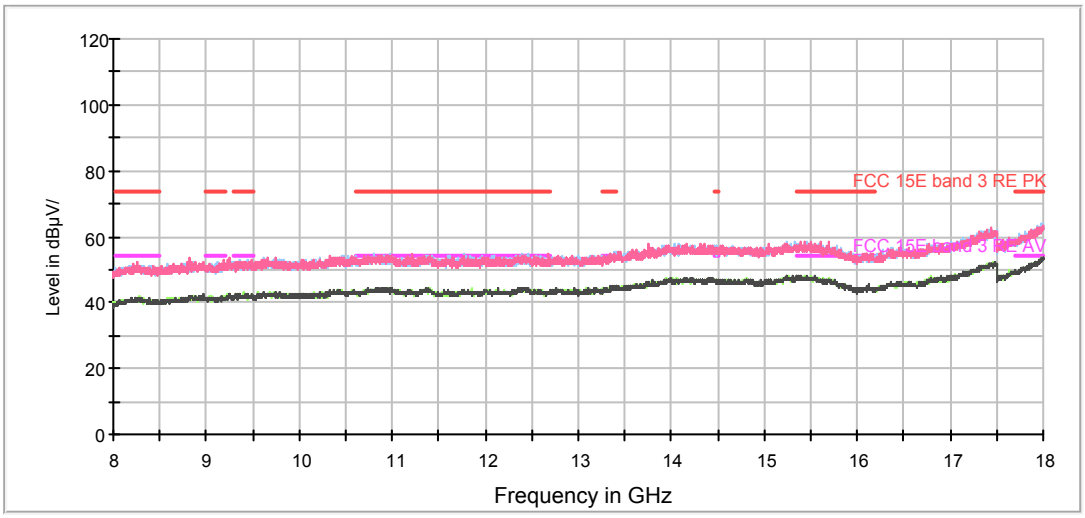
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11a CH165



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

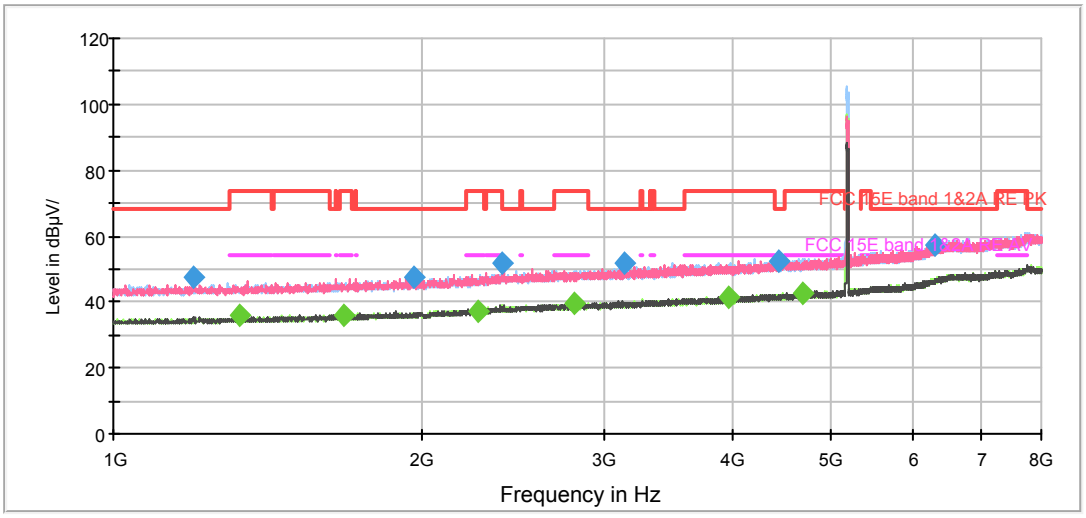
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1322.875000	45.8	200.0	V	316.0	-0.9	28.2	74.0
1616.875000	46.3	200.0	V	73.0	0.1	27.7	74.0
2258.250000	47.7	100.0	V	102.0	2.5	26.3	74.0
2834.875000	49.7	200.0	H	345.0	4.4	24.3	74.0
3811.375000	52.0	200.0	H	294.0	6.8	22.0	74.0
4994.375000	53.2	200.0	H	356.0	9.5	20.8	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1391.125000	35.6	200.0	V	102.0	-0.7	18.4	54.0
1682.500000	35.8	200.0	H	106.0	0.3	18.2	54.0
2324.750000	38.4	200.0	H	354.0	2.9	15.6	54.0
2739.500000	39.8	200.0	V	34.0	4.1	14.2	54.0
3832.375000	41.8	100.0	H	320.0	6.8	12.2	54.0
4889.375000	42.6	100.0	H	354.0	9.5	11.4	54.0

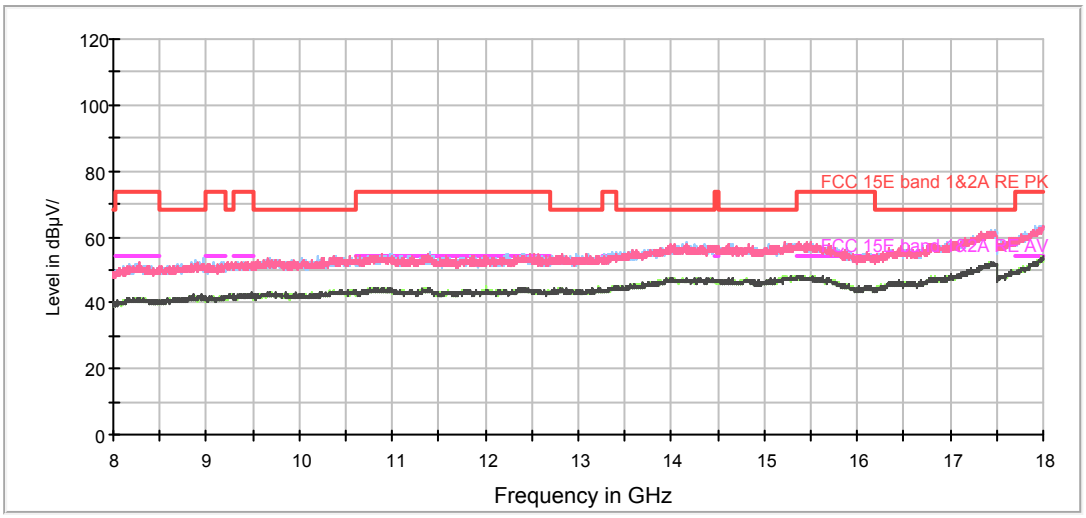
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH36



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

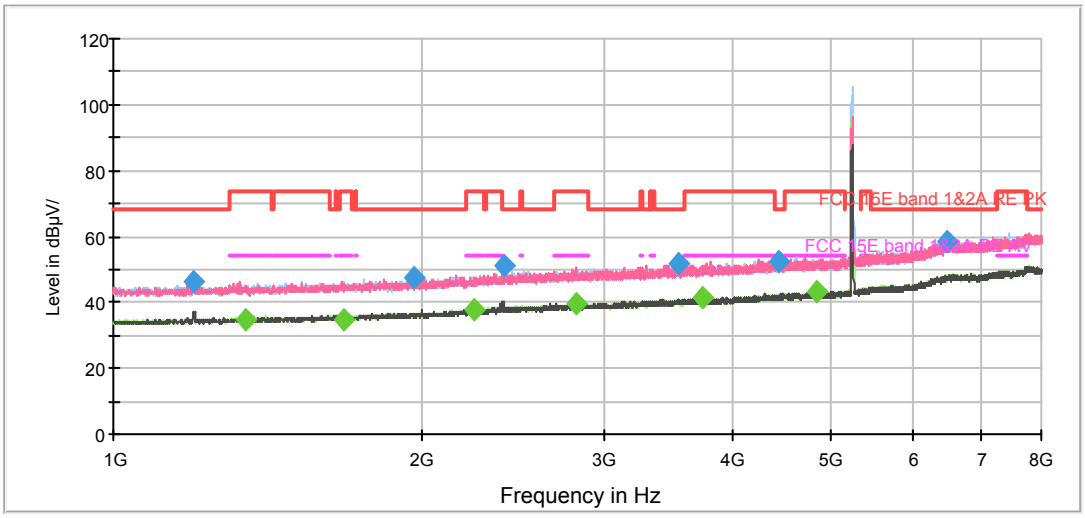
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.875000	47.6	100.0	V	25.0	-1.2	20.6	68.2
1962.500000	47.8	100.0	V	3.0	1.0	20.4	68.2
2393.000000	51.5	200.0	V	0.0	3.2	16.7	68.2
3138.500000	51.7	200.0	V	3.0	5.1	16.5	68.2
4451.875000	52.1	200.0	V	0.0	8.7	16.1	68.2
6307.750000	57.1	200.0	V	234.0	13.9	11.1	68.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1328.125000	35.6	200.0	H	0.0	-0.9	18.4	54.0
1675.500000	35.8	100.0	H	333.0	0.3	18.2	54.0
2260.000000	37.1	200.0	V	3.0	2.5	16.9	54.0
2805.125000	39.4	100.0	V	7.0	4.3	14.6	54.0
3966.250000	41.2	200.0	V	282.0	7.1	12.8	54.0
4683.750000	42.6	200.0	V	17.0	9.2	11.4	54.0

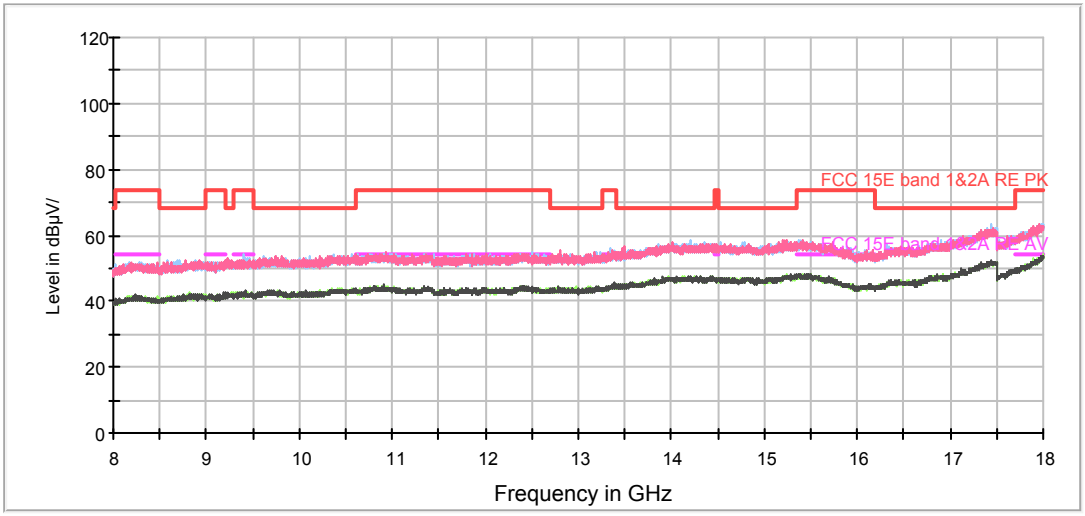
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH48



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

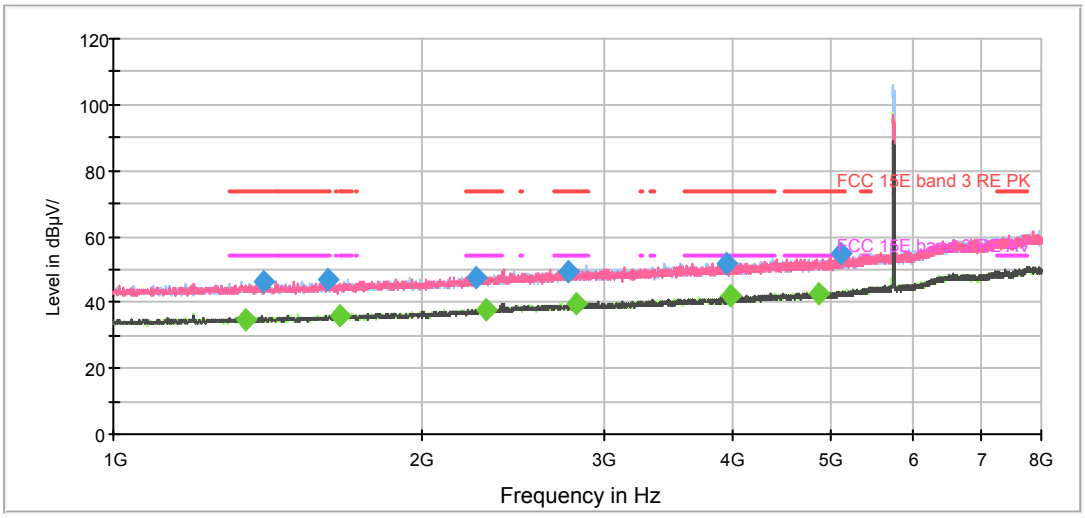
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.750000	46.4	200.0	V	352.0	-1.2	21.8	68.2
1963.375000	47.3	200.0	H	8.0	1.0	20.9	68.2
2398.250000	51.5	100.0	V	1.0	3.2	16.7	68.2
3555.875000	51.7	200.0	V	93.0	6.3	16.5	68.2
4434.375000	52.1	200.0	H	267.0	8.6	16.1	68.2
6490.625000	58.4	200.0	V	201.0	14.8	9.8	68.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

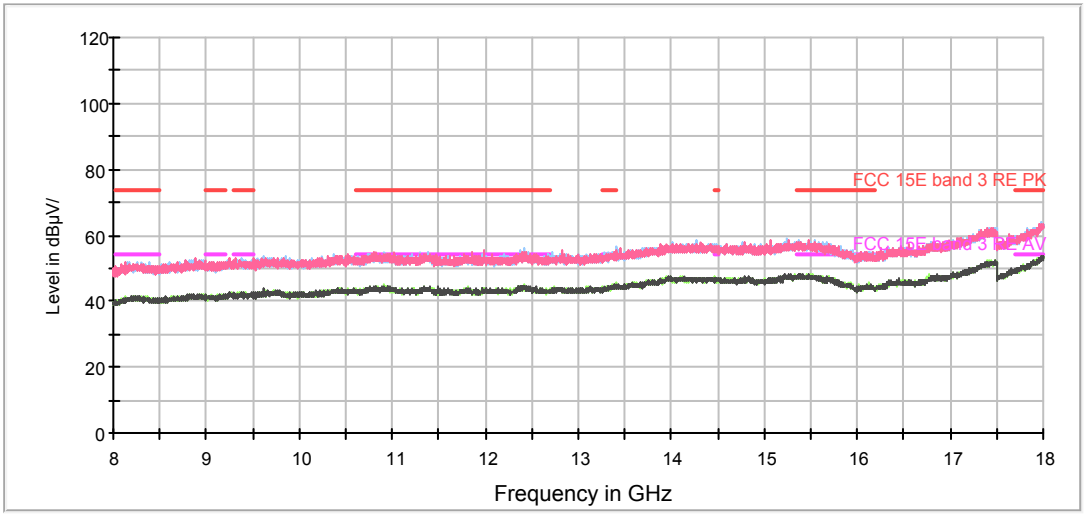
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1344.750000	34.8	200.0	H	359.0	-0.9	19.2	54.0
1676.375000	34.9	200.0	V	6.0	0.3	19.1	54.0
2248.625000	37.5	200.0	H	252.0	2.4	16.5	54.0
2827.875000	39.7	100.0	V	154.0	4.4	14.3	54.0
3749.250000	41.5	200.0	V	169.0	6.6	12.5	54.0
4830.750000	43.5	100.0	H	267.0	9.4	10.5	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH149



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

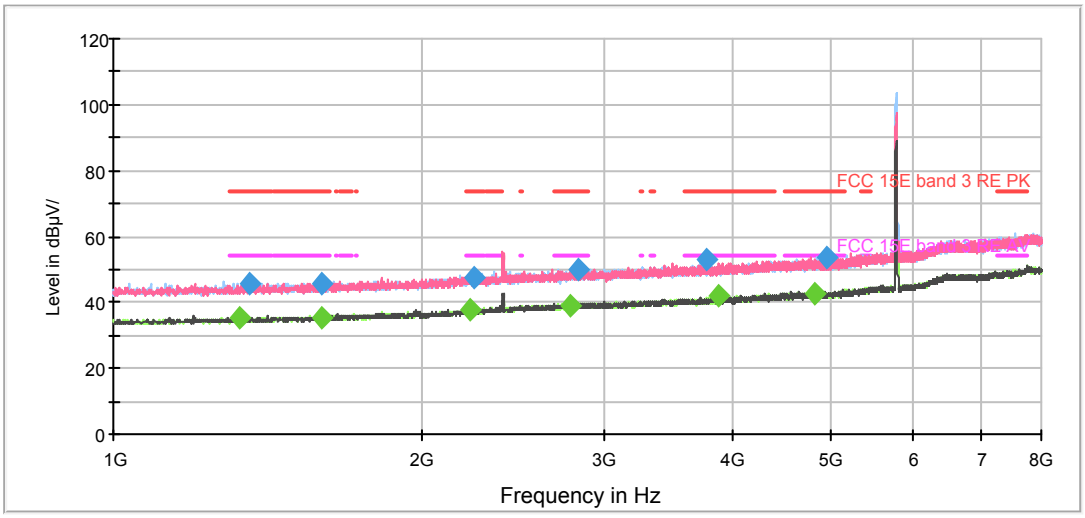
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1402.500000	46.2	200.0	H	358.0	-0.7	27.8	74.0
1614.250000	46.9	200.0	V	17.0	0.0	27.1	74.0
2249.500000	47.3	100.0	V	3.0	2.4	26.7	74.0
2771.875000	49.0	100.0	V	34.0	4.2	25.0	74.0
3947.000000	52.1	100.0	V	0.0	7.1	21.9	74.0
5108.125000	54.6	200.0	V	17.0	9.9	19.4	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

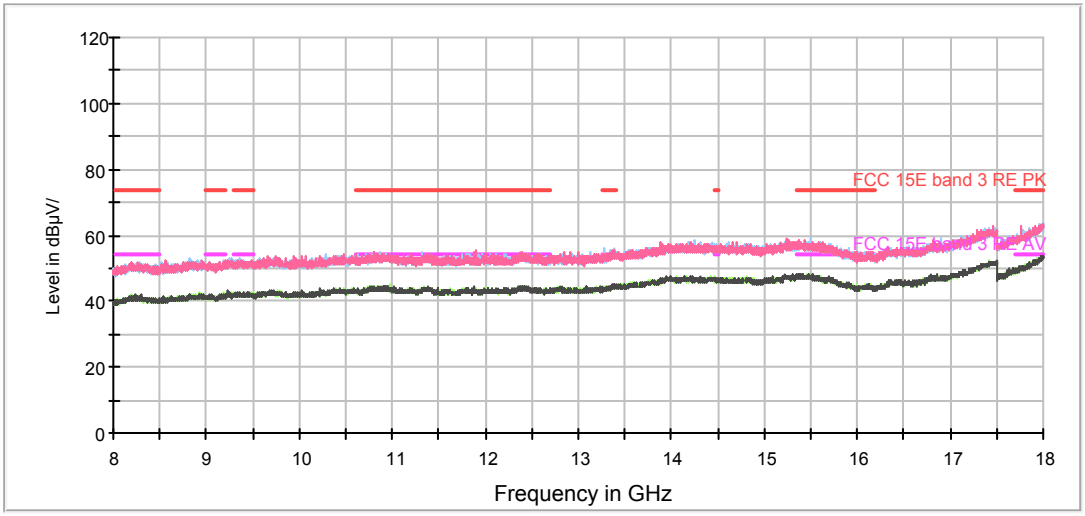
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1345.625000	34.8	200.0	V	11.0	-0.9	19.2	54.0
1658.875000	36.1	100.0	H	332.0	0.2	17.9	54.0
2306.375000	37.8	200.0	V	77.0	2.8	16.2	54.0
2825.250000	39.7	100.0	H	268.0	4.4	14.3	54.0
3996.000000	41.8	200.0	V	1.0	7.3	12.2	54.0
4868.375000	42.5	200.0	H	175.0	9.5	11.5	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH157



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

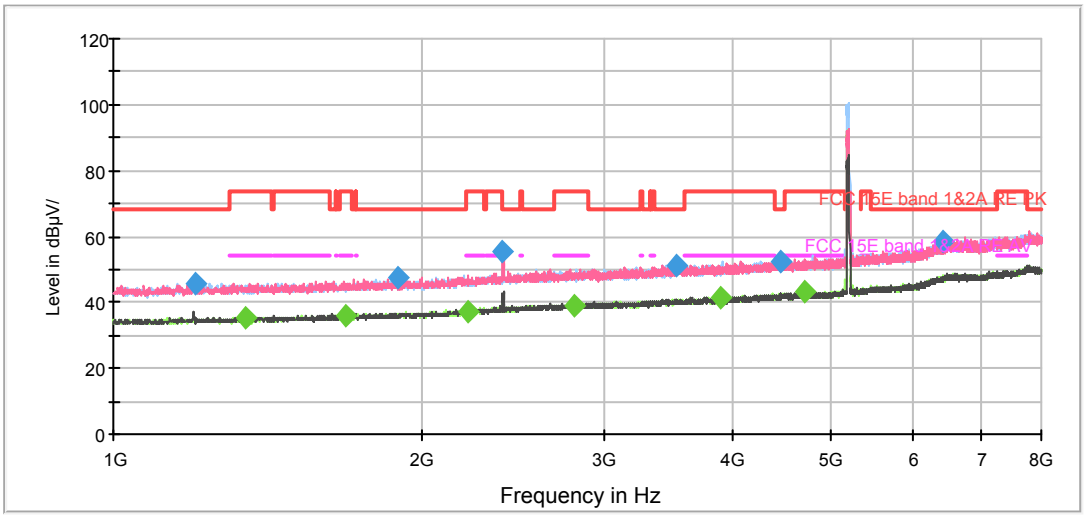
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1359.625000	45.7	200.0	V	0.0	-0.8	28.3	74.0
1597.625000	45.8	200.0	V	233.0	0.0	28.2	74.0
2246.000000	47.4	200.0	V	27.0	2.4	26.6	74.0
2832.250000	49.7	100.0	V	122.0	4.4	24.3	74.0
3776.375000	52.7	200.0	V	27.0	6.8	21.3	74.0
4952.375000	53.5	200.0	H	257.0	9.5	20.5	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

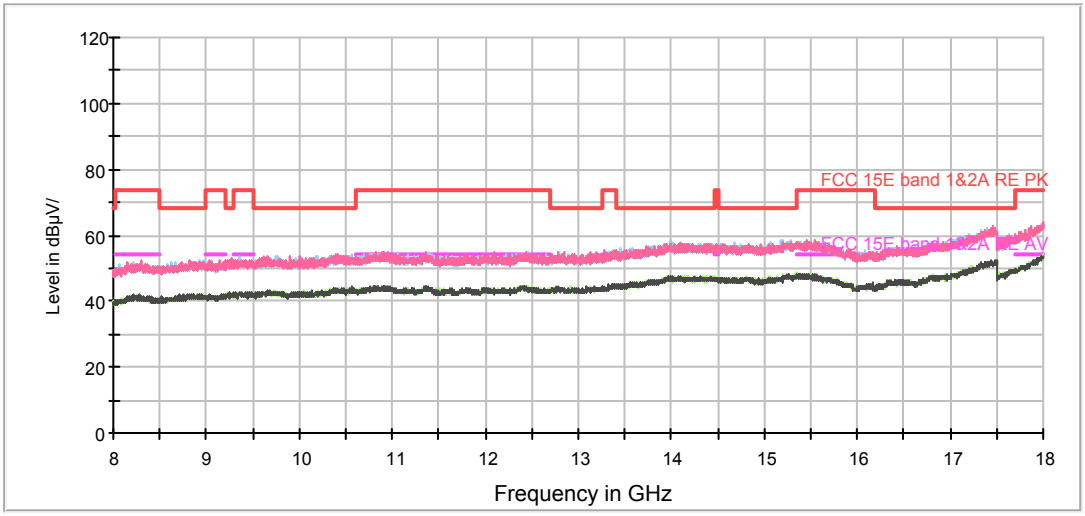
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1329.875000	35.5	200.0	V	6.0	-0.9	18.5	54.0
1597.625000	35.5	100.0	V	233.0	0.0	18.5	54.0
2223.250000	38.0	200.0	H	288.0	2.3	16.0	54.0
2785.000000	39.2	100.0	H	358.0	4.2	14.8	54.0
3873.500000	41.8	200.0	V	13.0	7.0	12.2	54.0
4823.750000	42.7	200.0	V	318.0	9.4	11.3	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH38



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

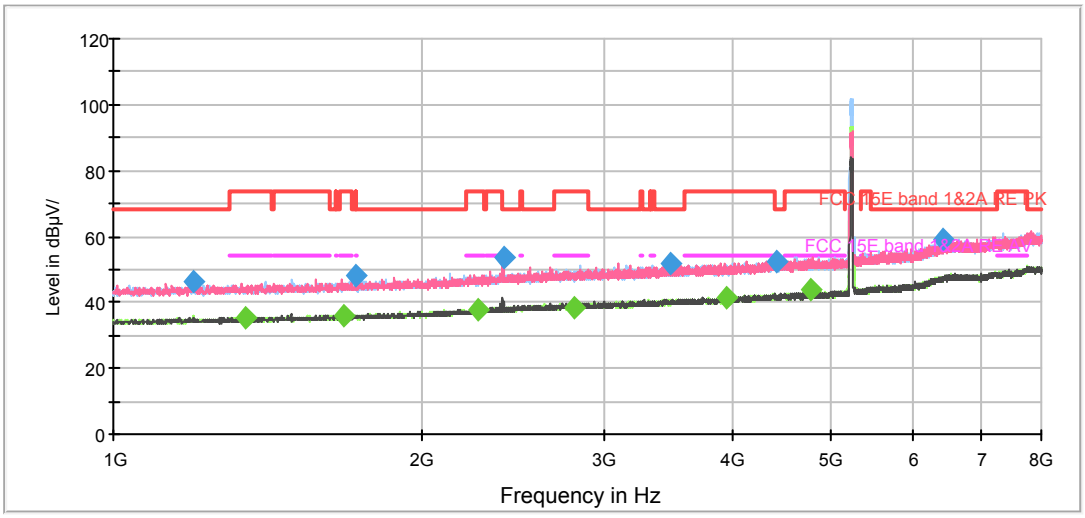
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.500000	45.7	200.0	V	37.0	-1.2	22.5	68.2
1895.125000	47.4	200.0	V	216.0	0.9	20.8	68.2
2394.750000	55.2	200.0	V	200.0	3.2	13.0	68.2
3528.750000	51.2	100.0	H	254.0	6.3	17.0	68.2
4457.125000	52.6	200.0	V	76.0	8.7	15.6	68.2
6420.625000	58.2	100.0	V	27.0	14.4	10.0	68.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

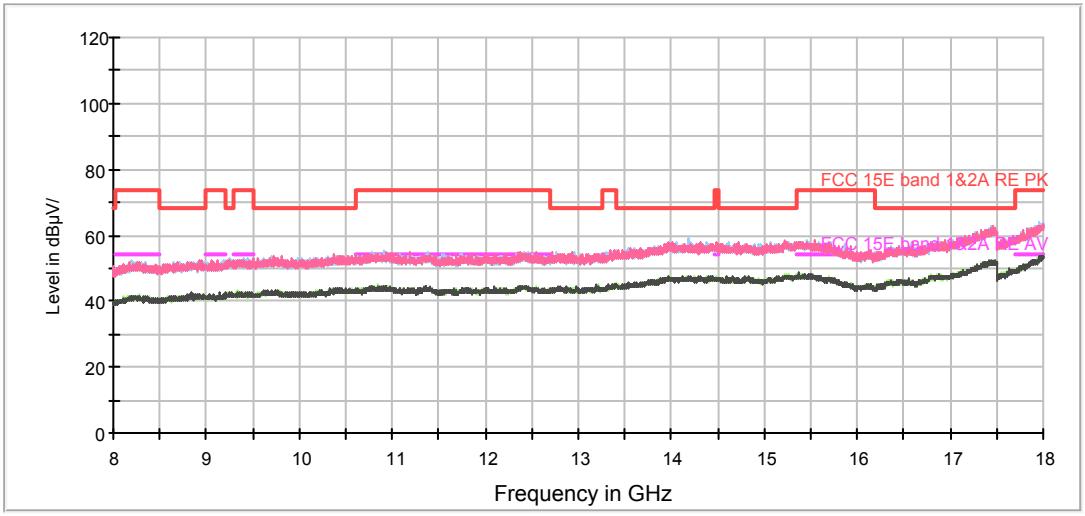
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1346.500000	35.5	200.0	V	0.0	-0.9	18.5	54.0
1686.875000	36.0	200.0	V	20.0	0.4	18.0	54.0
2211.875000	37.4	100.0	V	9.0	2.3	16.6	54.0
2812.125000	39.3	100.0	H	347.0	4.3	14.7	54.0
3891.000000	41.6	200.0	H	354.0	7.1	12.4	54.0
4716.125000	43.0	200.0	V	0.0	9.2	11.0	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH46



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

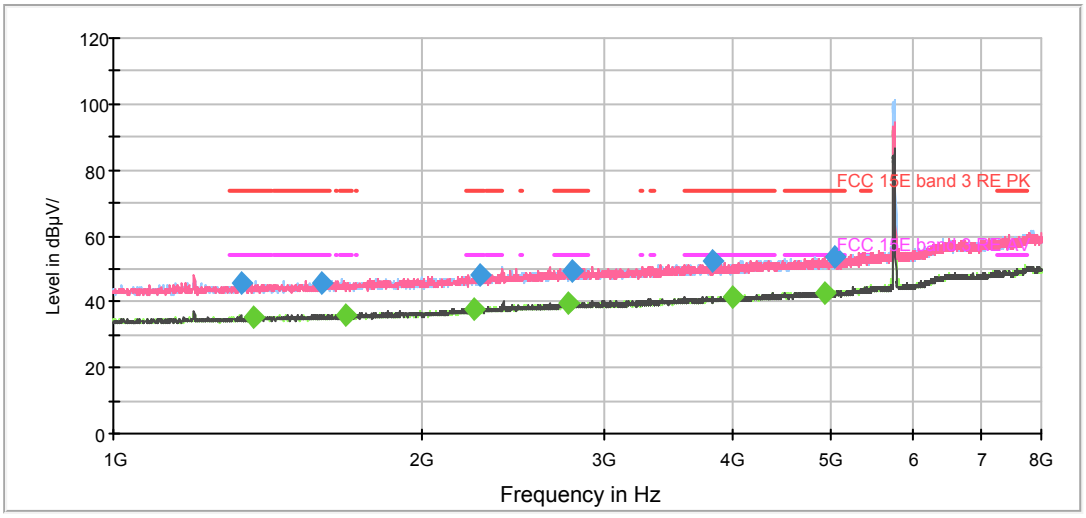
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.875000	46.3	200.0	H	222.0	-1.2	21.9	68.2
1723.625000	47.9	200.0	V	265.0	0.4	20.3	68.2
2399.125000	53.4	100.0	V	249.0	3.2	14.8	68.2
3492.000000	52.0	200.0	V	0.0	6.0	16.2	68.2
4430.875000	52.2	100.0	V	0.0	8.6	16.0	68.2
6428.500000	59.0	200.0	V	3.0	14.4	9.2	68.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1345.625000	35.1	200.0	V	0.0	-0.9	18.9	54.0
1675.500000	35.8	200.0	H	160.0	0.3	18.2	54.0
2263.500000	38.0	200.0	V	8.0	2.6	16.0	54.0
2811.250000	38.3	200.0	H	312.0	4.3	15.7	54.0
3955.750000	41.7	200.0	V	24.0	7.1	12.3	54.0
4777.375000	43.7	100.0	H	0.0	9.3	10.3	54.0

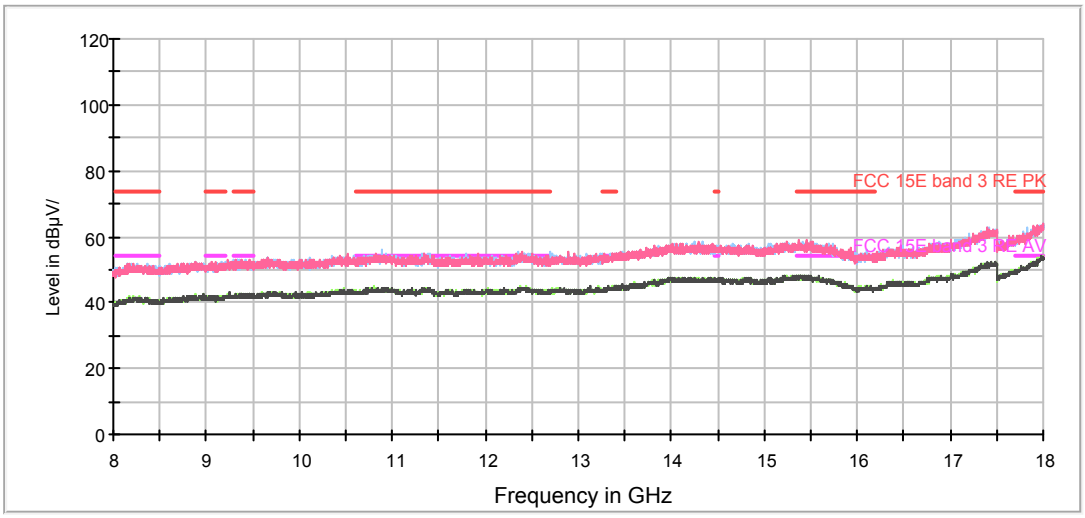
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH151



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

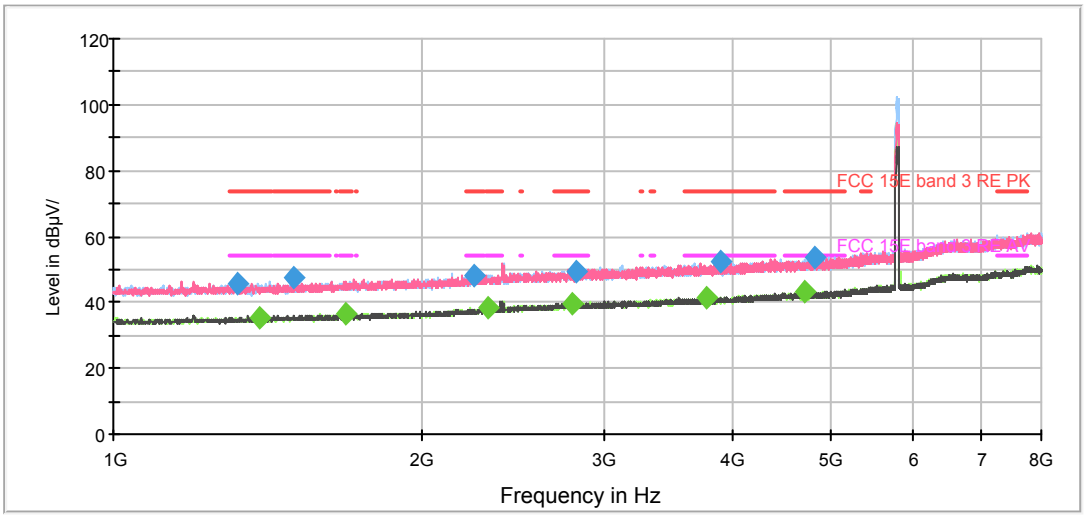
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1333.375000	45.5	100.0	V	0.0	-0.9	28.5	74.0
1596.750000	45.5	100.0	V	0.0	0.0	28.5	74.0
2277.500000	47.9	200.0	V	1.0	2.7	26.1	74.0
2793.750000	49.2	100.0	H	0.0	4.3	24.8	74.0
3831.500000	52.2	200.0	H	354.0	6.8	21.8	74.0
5046.875000	53.7	200.0	V	43.0	9.8	20.3	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

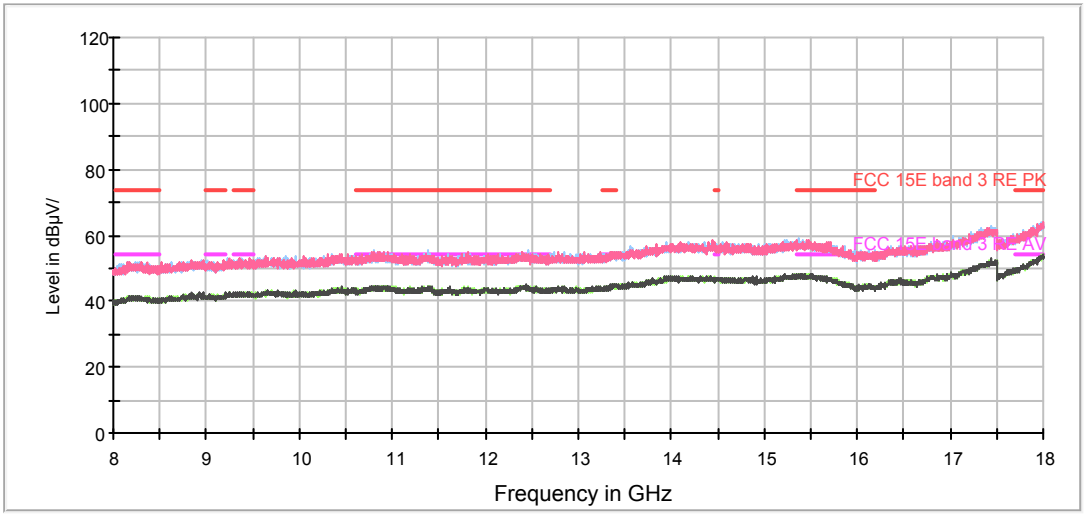
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1370.125000	35.4	200.0	V	32.0	-0.8	18.6	54.0
1681.625000	35.8	200.0	V	100.0	0.3	18.2	54.0
2246.000000	37.7	100.0	V	7.0	2.4	16.3	54.0
2766.625000	39.7	100.0	V	11.0	4.2	14.3	54.0
3997.750000	41.7	200.0	V	100.0	7.3	12.3	54.0
4919.125000	42.9	200.0	V	177.0	9.5	11.1	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH159



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

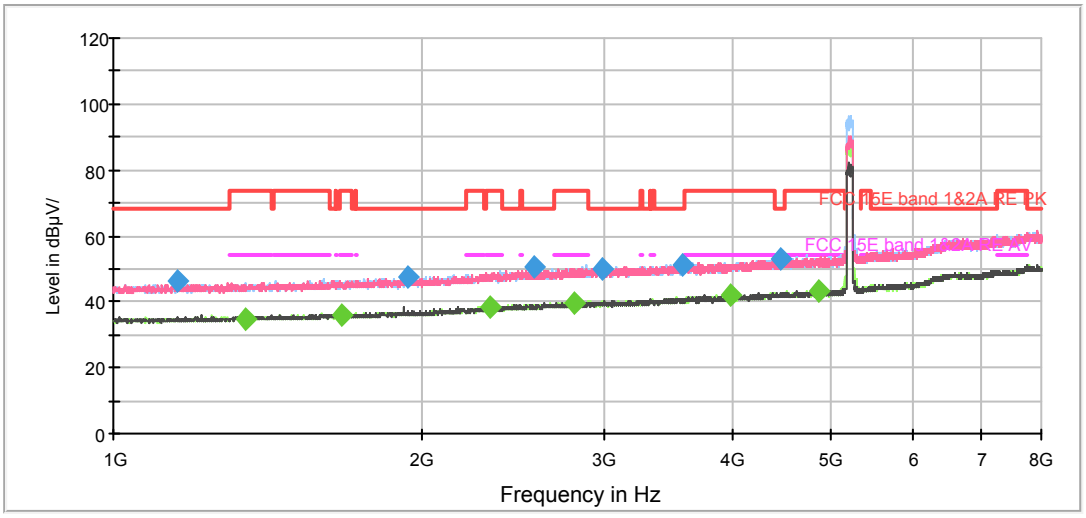
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1323.750000	45.4	200.0	H	0.0	-0.9	28.6	74.0
1497.875000	47.4	200.0	V	151.0	-0.4	26.6	74.0
2248.625000	48.0	100.0	H	328.0	2.4	26.0	74.0
2827.875000	49.4	100.0	H	166.0	4.4	24.6	74.0
3895.375000	52.4	200.0	H	276.0	7.1	21.6	74.0
4820.250000	53.4	200.0	V	199.0	9.4	20.6	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1387.625000	35.4	100.0	H	150.0	-0.7	18.6	54.0
1680.750000	36.5	100.0	H	353.0	0.3	17.5	54.0
2313.375000	38.3	200.0	V	2.0	2.8	15.7	54.0
2792.875000	39.3	200.0	H	357.0	4.3	14.7	54.0
3785.125000	41.5	200.0	H	230.0	6.8	12.5	54.0
4714.375000	43.1	200.0	V	167.0	9.2	10.9	54.0

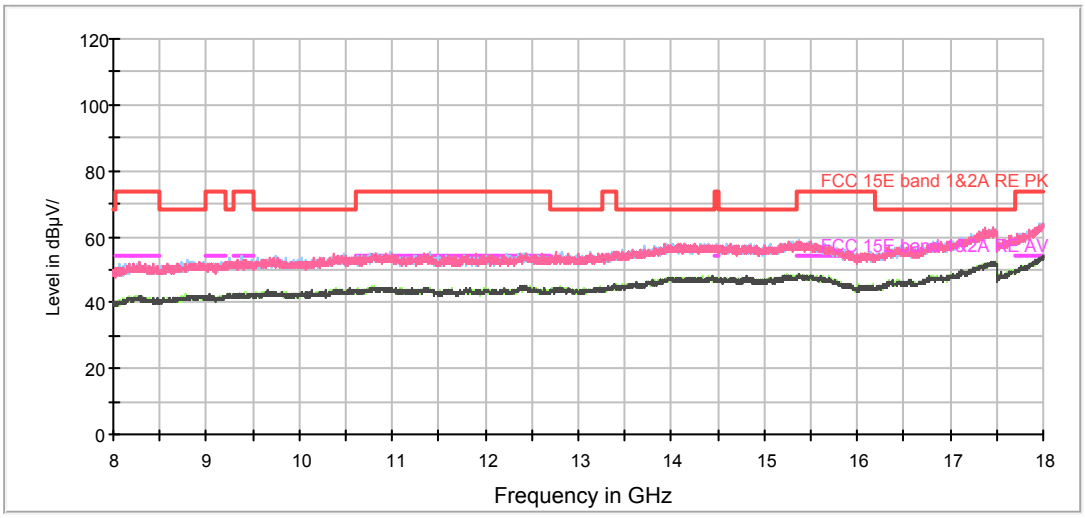
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (HT80) CH42



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

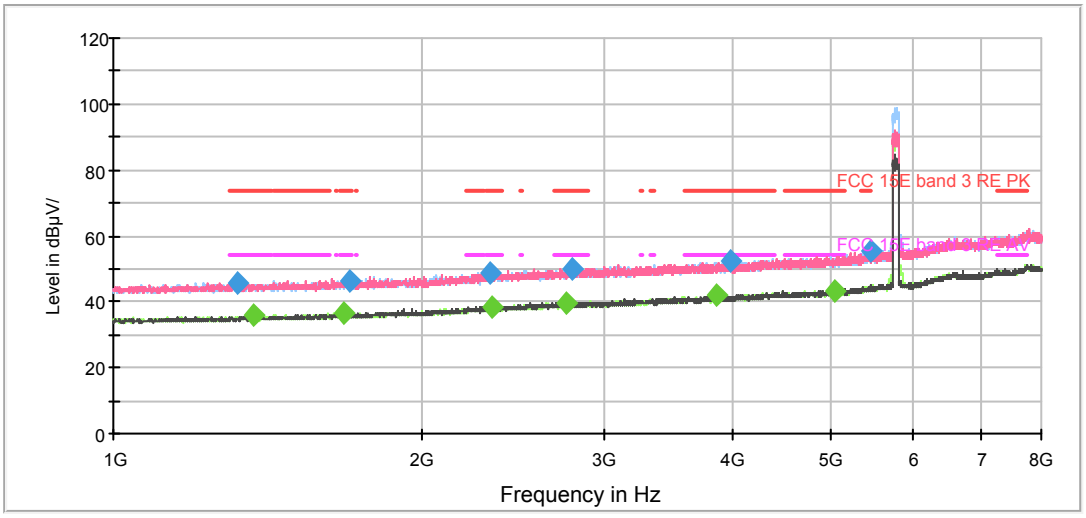
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1153.125000	46.0	200.0	H	12.0	-1.3	22.2	68.2
1938.875000	47.3	100.0	H	217.0	1.0	20.9	68.2
2569.750000	50.4	200.0	V	346.0	3.7	17.8	68.2
2985.375000	49.7	200.0	V	358.0	4.7	18.5	68.2
3587.375000	51.4	200.0	V	251.0	6.3	16.8	68.2
4461.500000	52.8	100.0	V	2.0	8.7	15.4	68.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1347.375000	34.9	100.0	H	172.0	-0.9	19.1	54.0
1672.000000	35.9	200.0	H	46.0	0.3	18.1	54.0
2330.000000	38.2	100.0	H	156.0	2.9	15.8	54.0
2814.750000	39.9	200.0	V	358.0	4.3	14.1	54.0
3992.500000	41.8	100.0	H	2.0	7.2	12.2	54.0
4869.250000	43.1	200.0	H	134.0	9.5	10.9	54.0

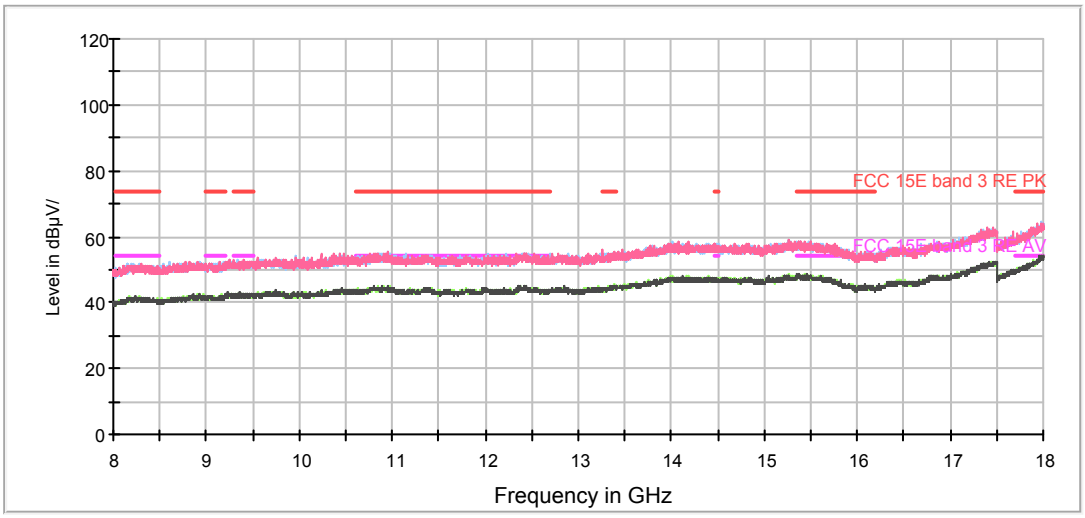
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11ac (HT80) CH155



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1320.250000	45.9	200.0	H	2.0	-0.9	28.1	74.0
1696.500000	46.6	200.0	V	302.0	0.4	27.4	74.0
2322.125000	48.9	200.0	V	195.0	2.8	25.1	74.0
2798.125000	49.8	200.0	V	352.0	4.3	24.2	74.0
3979.375000	52.1	200.0	V	195.0	7.2	21.9	74.0
5450.250000	55.4	200.0	V	343.0	11.1	18.6	74.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1370.125000	35.7	100.0	V	19.0	-0.8	18.3	54.0
1675.500000	36.6	200.0	H	1.0	0.3	17.4	54.0
2331.750000	38.2	200.0	V	302.0	2.9	15.8	54.0
2759.625000	39.9	100.0	V	0.0	4.2	14.1	54.0
3862.125000	41.9	200.0	H	60.0	6.9	12.1	54.0
5037.250000	43.1	200.0	H	232.0	9.8	10.9	54.0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5.6. Conducted Emission

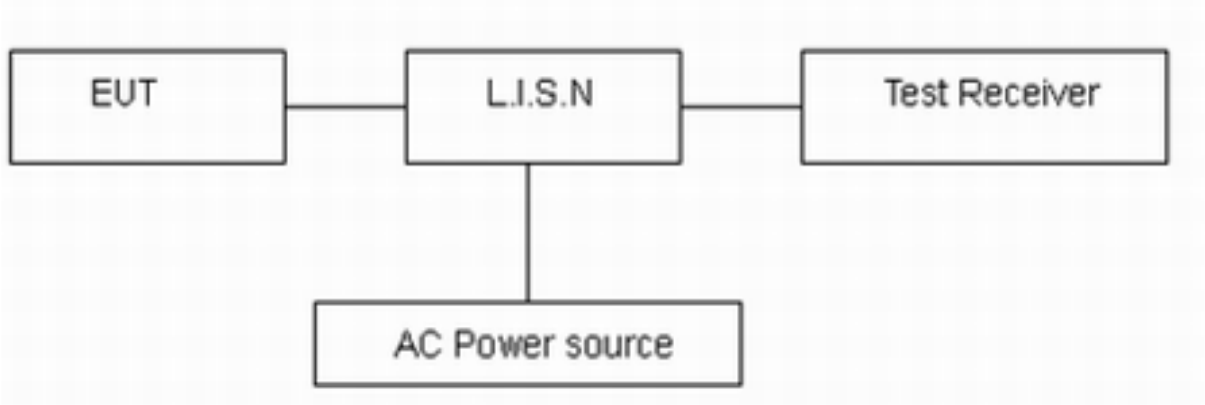
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013.Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.
The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

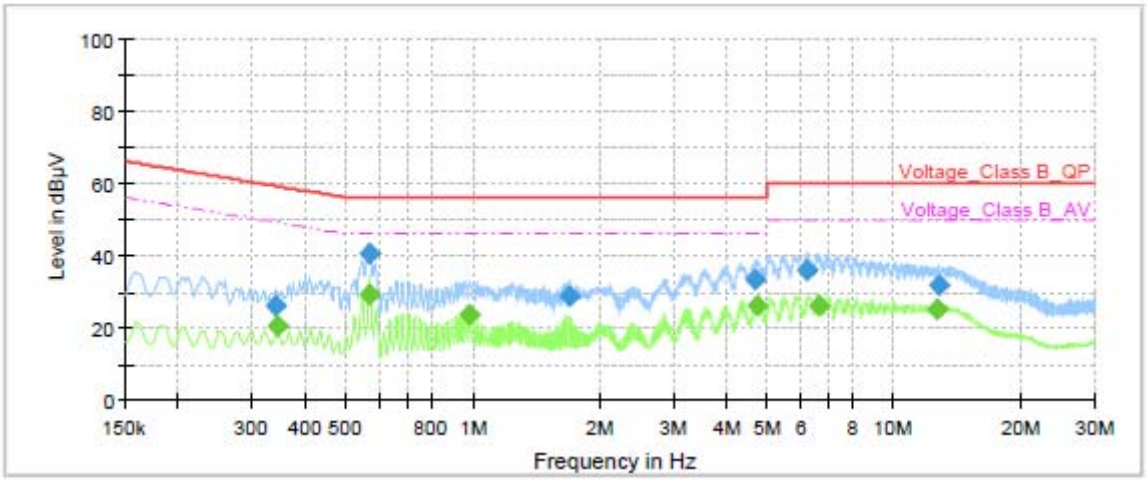
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U= 2.69 dB.

Test Results:

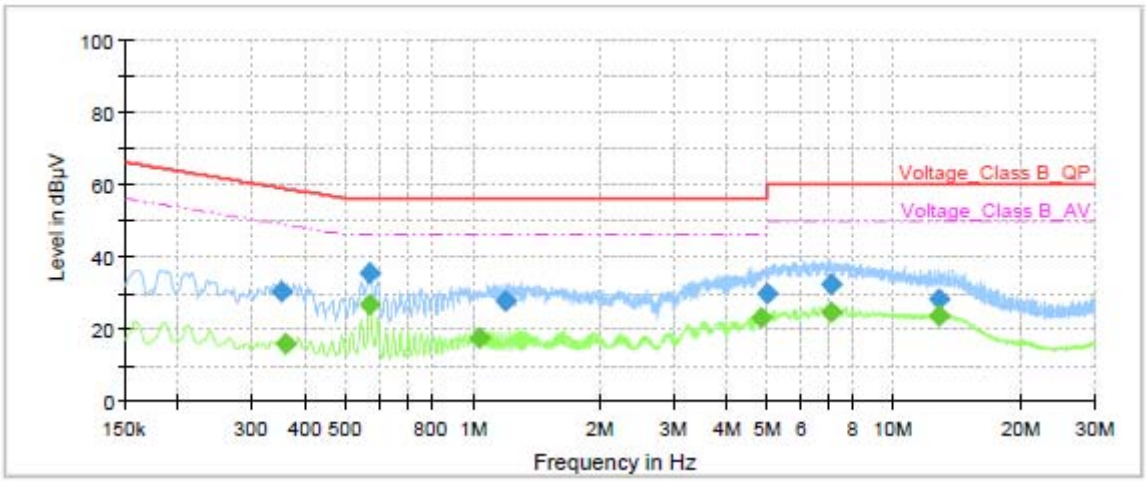
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11n (HT40) CH46 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.34	25.92	---	59.17	33.25	1000.0	9.000	L1	ON	19
0.34	---	20.49	49.12	28.63	1000.0	9.000	L1	ON	19
0.57	---	29.41	46.00	16.59	1000.0	9.000	L1	ON	19
0.57	40.66	---	56.00	15.34	1000.0	9.000	L1	ON	19
0.98	---	23.66	46.00	22.34	1000.0	9.000	L1	ON	19
1.69	28.52	---	56.00	27.48	1000.0	9.000	L1	ON	19
4.70	33.48	---	56.00	22.52	1000.0	9.000	L1	ON	19
4.74	---	26.07	46.00	19.93	1000.0	9.000	L1	ON	19
6.23	36.01	---	60.00	23.99	1000.0	9.000	L1	ON	19
6.63	---	26.03	50.00	23.97	1000.0	9.000	L1	ON	19
12.70	---	24.93	50.00	25.07	1000.0	9.000	L1	ON	19
12.75	31.72	---	60.00	28.28	1000.0	9.000	L1	ON	19

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.35	30.08	---	58.96	28.88	1000.0	9.000	N	ON	19
0.36	---	16.05	48.75	32.70	1000.0	9.000	N	ON	19
0.57	---	26.74	46.00	19.26	1000.0	9.000	N	ON	19
0.57	35.63	---	56.00	20.37	1000.0	9.000	N	ON	19
1.04	---	17.50	46.00	28.50	1000.0	9.000	N	ON	19
1.20	27.87	---	56.00	28.13	1000.0	9.000	N	ON	19
4.84	---	23.12	46.00	22.88	1000.0	9.000	N	ON	19
4.97	29.74	---	56.00	26.26	1000.0	9.000	N	ON	19
7.08	---	24.55	50.00	25.45	1000.0	9.000	N	ON	19
7.09	32.53	---	60.00	27.47	1000.0	9.000	N	ON	19
12.76	---	23.73	50.00	26.27	1000.0	9.000	N	ON	19
12.82	28.38	---	60.00	31.62	1000.0	9.000	N	ON	19

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV40	15195-01-00	2020-05-18	2021-05-17
EMI Test Receiver	R&S	ESCI	100948	2020-05-18	2021-05-17
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	9163-201	2017-11-18	2020-11-17
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2021-06-19
Standard Gain Horn	STEATITE	QSH-SL-26-40 -K-15	16779	2019-12-24	2022-12-23
Broadband Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2018-07-07	2021-07-06
EMI Test Receiver	R&S	ESR	101667	2020-05-18	2021-05-17
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420163	2019-12-15	2020-12-14
RF Cable	Agilent	SMA 15cm	0001	2020-06-12	2020-12-11
TEMPERATURE CHAMBER	WEISS	VT4002	582261194500 10	2019-12-15	2020-12-14
WLAN AP	Cisco	Air-AP1262N-A-K9	LDK102073 (FCC ID)	/	/
Power Meter	R&S	NRP2	104306	2020-05-18	2021-05-17
Power Sensor	R&S	NRP-Z21	104799	2020-05-18	2021-05-17
DC Power Supply	GWINSTEK	GPS-3030D	GEP882653	2020-05-18	2021-05-17
Software	R&S	EMC32	9.26.0	/	/

********END OF REPORT ********

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.