RF TEST REPORT

Applicant	Starry, Inc.
FCC ID	2AGZ3S00111
Product	Starry Station
Model	S00111
Report No.	RXA1602-0024RF03
Issue Date	March 23, 2016

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2015)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Reviewed by: Lingling Kang

Approved by: Kai Xu

TESTING
No. L2264

TA Technology (Shanghai) Co., Ltd.

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TABLE OF CONTENT

1. Test Laboratory 4
1.1. Notes of the test report 4
1.2. Test facility 4
1.3. Testing Location 5
2. General Description of Equipment under Test 6
3. Test Information 7
4. Test Configuration 8
5. Test Case Results 10
5.1. Peak Power Output –Conducted 10
5.2. Occupied Bandwidth 13
5.3. Frequency Stability 20
5.4. Power Spectral Density 26
5.5. Unwanted Emission 38
5.6. Conducted Emission 188
6. Main Test Instruments 208
ANNEX A: EUT Appearance and Test Setup 209
A.1 EUT Appearance 209
A.2 Test Setup 212

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Summary of measurement results

Number	Summary of measurements of results	Clause in FCC rules	Verdict
1	Maximum peak conducted output power	15.407(a)	PASS
2	Occupied bandwidth	15.407(e)	PASS
3	Frequency stability	15.407(g)	PASS
4	Maximum power spectral density	15.407(a)	PASS
5	Unwanted Emissions	15.407(b)	PASS
6	Conducted Emissions	15.207	PASS
Date of Testing: December 28, 2015~ March 23, 2016			

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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. This report must not be used by the client to claim product certification, approval, or endorsement by CNAS or any government agencies.

1.2. Test facility

CNAS (accreditation number:L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (recognition number is 428261)

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

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA(Certificate Number: 3857.01)

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

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1.3. Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City:	Shanghai
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2. General Description of Equipment under Test

Client Information

Applicant	Starry, Inc.
Applicant address	745 Atlantic Ave Fl 8, Boston, MA, United States
Manufacturer	Flextronics Manufacturing(Zhuhai) Co. Ltd
Manufacturer address	XinQing Science&Technology Industrial Park, Doumen County.Zhuhai

General information

Model:	S00111
SN:	0010000998
Hardware Version:	1.9
Software Version:	1.0
Power Supply:	AC Power Supply
Antenna Type:	Internal Antenna
Test Mode:	U-NII-1(5150MHz-5250MHz) U-NII-3(5725MHz-5850MHz)
Modulation Type:	802.11a/n (HT20/HT40) : OFDM 802.11ac (HT20.HT40/HT80): OFDM
Max. Conducted Power	802.11a: 22.69 dBm 802.11n: 22.78 dBm 802.11ac: 22.59 dBm
Operating Frequency Range(s)	U-NII-1: 5150-5250MHz U-NII-3: 5725-5850MHz
Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.	

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3. Test Information

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

FCC CFR47 Part 15E (2015) Unlicensed National Information Infrastructure Devices

ANSI C63.10 (2013)

KDB789033 D02 General UNII Test Procedures New Rules v01r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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4. Test Configuration

Test Mode

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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.

Band		Data Rate				
		Antenna1	Antenna2	Antenna3	Antenna4	MIMO
802.11a	U-NII-1	6 Mbps	6 Mbps	6 Mbps	6 Mbps	/
	U-NII-3	54 Mbps	54 Mbps	54 Mbps	54 Mbps	/
802.11n HT20	U-NII-1	MCS0	MCS0	MCS0	MCS0	MCS8
	U-NII-3	MCS2	MCS2	MCS2	MCS2	MCS8
802.11n HT40	U-NII-1	MCS0	MCS0	MCS0	MCS0	MCS8
	U-NII-3	MCS6	MCS6	MCS6	MCS6	MCS8
802.11ac HT20	U-NII-1	MCS0	MCS0	MCS0	MCS0	MCS9
	U-NII-3	MCS8	MCS8	MCS8	MCS8	MCS9
802.11ac HT40	U-NII-1	MCS7	MCS7	MCS7	MCS7	MCS17
	U-NII-3	MCS0	MCS0	MCS0	MCS0	MCS17
802.11ac HT80	U-NII-1	MCS1	MCS1	MCS1	MCS1	MCS16
	U-NII-3	MCS6	MCS6	MCS6	MCS6	MCS16
The device supports non-beamforming and beamforming function in 802.11n/ac, after pre-testing, beamforming mode has the worst emission value, so the worst case was recorded.						

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The EUT is 4x4 MIMO antennas, for RE&CE& Frequency stability, In order to find the worst antenna; Pre-tests are needed at the presence of different antenna. And the worst antenna was recorded for RE&CE.

The worst case Antenna mode for each of the following tests for Wi-Fi:

Test Cases	Antenna 1	Antenna 2	Antenna 3	Antenna 4	MIMO
Maximum peak conducted output power	O	O	O	O	802.11n HT20/ HT40/ 802.11ac HT20/ HT40/ HT80
Occupied bandwidth	O	-	-	-	-
Frequency stability	O	-	-	-	-
Maximum power spectral density	O	-	-	-	802.11n HT20/ HT40/ 802.11ac HT20/ HT40/ HT80
Unwanted Emissions	802.11a	-	-	-	-
Conducted Emissions	O	-	-	-	-
Note：“O”: test all bands					

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5. Test Case Results

5.1. Peak Power Output –Conducted

Ambient condition

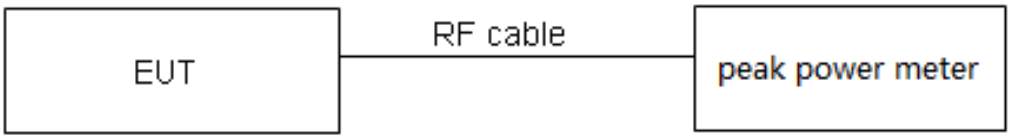
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

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

The conducted Power 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)(3)/ Part 15.407(a)(1)

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.

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 transmittingantennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum powerspectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Peak Output Power	≤ 1W (30dBm)

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.

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Test Results

U-NII-1

Network Standards	Channel/ Frequency (MHz)	Peak Output Power (dBm)				Conclusion
		Antenna 1	Antenna 2	Antenna 3	Antenna 4	
Power Tx Setup		23				
802.11a	36/5180	15.41	16.83	16.84	18.33	PASS
	40/5200	16.48	17.62	18.29	19.05	PASS
	48/5240	19.15	18.46	20.22	19.42	PASS
802.11n HT20	36/5180	15.51	16.95	17.03	18.32	PASS
	40/5200	16.74	17.89	18.45	19.12	PASS
	48/5240	19.31	18.27	20.31	19.59	PASS
802.11n HT40	38/5190	15.67	17.13	17.29	18.43	PASS
	46/5230	18.45	17.93	19.65	19.25	PASS
802.11ac HT20	36/5180	15.61	17.13	16.95	18.52	PASS
	40/5200	16.71	17.74	18.44	19.17	PASS
	48/5240	19.34	18.25	20.33	19.54	PASS
802.11ac HT40	38/5190	15.77	17.01	17.37	18.52	PASS
	46/5230	18.42	17.97	19.63	19.26	PASS
802.11ac HT80	42/5210	17.22	16.93	18.33	18.52	PASS

U-NII-3

Network Standards	Channel/ Frequency (MHz)	Peak Output Power (dBm)				Conclusion
		Antenna 1	Antenna 2	Antenna 3	Antenna 4	
Power Tx Setup		27				
802.11a	149/5745	21.02	21.05	21.04	21.04	PASS
	157/5785	21.34	21.37	21.33	21.36	PASS
	165/5825	22.62	22.65	22.65	22.69	PASS
802.11n HT20	149/5745	21.30	21.31	21.31	21.33	PASS
	157/5785	21.53	21.66	21.55	21.54	PASS
	165/5825	22.76	22.78	22.68	22.75	PASS
802.11n HT40	151/5755	21.05	21.07	21.06	21.07	PASS
	159/5795	21.38	21.38	21.35	21.39	PASS
802.11ac HT20	149/5745	21.05	21.07	21.04	21.06	PASS
	157/5785	21.47	21.44	21.45	21.49	PASS
	165/5825	22.52	22.55	22.55	22.59	PASS
802.11ac HT40	151/5755	21.04	21.09	21.06	21.06	PASS
	159/5795	21.35	21.33	21.38	21.39	PASS
802.11ac HT80	155/5775	20.72	20.77	20.71	20.74	PASS

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U-NII-1 MIMO

Network Standards	Channel/Frequency (MHz)	SUM (dBm)	Conclusion
Power Tx Setup		**17**	
802.11n HT20	36/5180	14.12	PASS
	40/5200	14.75	PASS
	48/5240	15.10	PASS
802.11ac HT20	36/5180	14.19	PASS
	40/5200	14.56	PASS
	48/5240	15.02	PASS
Power Tx Setup		**22**	**/**
802.11n HT40	38/5190	19.02	PASS
	46/5230	19.11	PASS
802.11ac HT40	38/5190	19.11	PASS
	46/5230	19.56	PASS
Power Tx Setup		**25**	**/**
802.11ac HT80	42/5210	21.94	PASS

U-NII-3 MIMO

Network Standards	Channel/Frequency (MHz)	SUM (dBm)	Conclusion
Power Tx Setup		**17**	
802.11n HT20	149/5745	13.55	PASS
	157/5785	14.22	PASS
	165/5825	14.24	PASS
802.11ac HT20	149/5745	13.36	PASS
	157/5785	14.28	PASS
	165/5825	14.23	PASS
Power Tx Setup		**16**	**/**
802.11n HT40	151/5755	13.11	PASS
	159/5795	12.86	PASS
802.11ac HT40	151/5755	13.16	PASS
	159/5795	13.17	PASS
Power Tx Setup		**20**	**/**
802.11ac HT80	155/5775	16.43	PASS

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5.2. Occupied Bandwidth

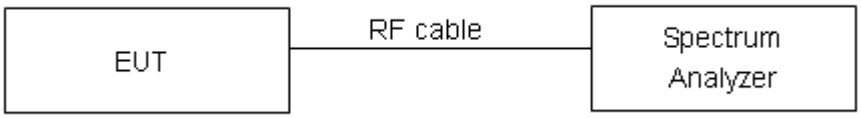
Ambient condition

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(a)(5)/15.407(e)
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.
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.

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Test Results:

Antenna 1

U-NII-1

Network Standards	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5180	16.578	19.39	PASS
	5200	16.590	19.53	PASS
	5240	16.578	19.47	PASS
802.11n HT20	5180	17.635	19.95	PASS
	5200	17.622	19.78	PASS
	5240	17.696	22.52	PASS
802.11n HT40	5190	36.084	39.86	PASS
	5230	36.069	39.72	PASS
802.11ac HT20	5180	17.633	19.86	PASS
	5200	17.622	19.78	PASS
	5240	17.664	19.75	PASS
802.11ac HT40	5190	36.123	40.01	PASS
	5230	36.083	39.90	PASS
802.11ac HT80	5210	76.137	81.41	PASS

U-NII-3

Network Standards	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Conclusion
802.11a	5745	16.513	16.53	PASS
	5785	16.529	16.54	PASS
	5825	16.570	16.57	PASS
802.11n HT20	5745	17.664	17.70	PASS
	5785	17.680	17.72	PASS
	5825	17.629	17.71	PASS
802.11n HT40	5755	36.148	36.46	PASS
	5795	36.196	36.47	PASS
802.11ac HT20	5745	17.655	17.76	PASS
	5785	17.666	17.79	PASS
	5825	17.642	17.70	PASS
802.11ac HT40	5755	36.159	36.42	PASS
	5795	36.194	36.50	PASS
802.11ac HT80	5775	75.982	76.65	PASS

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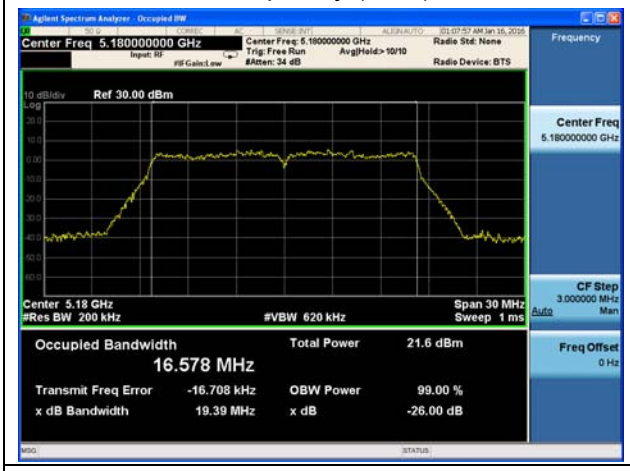
Antenna 1

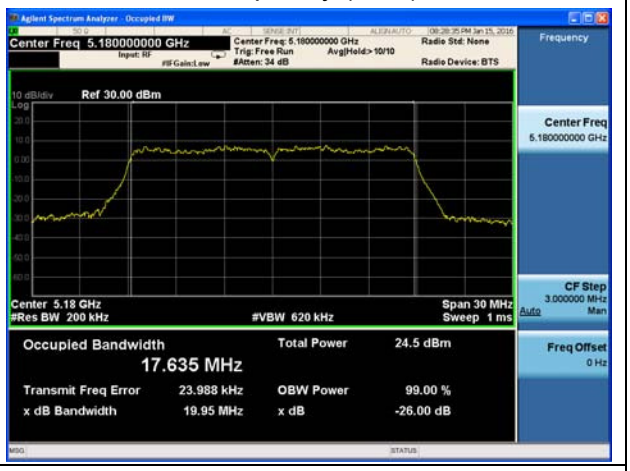
U-NII-1, 802.11a

Carrier frequency (MHz): 5180



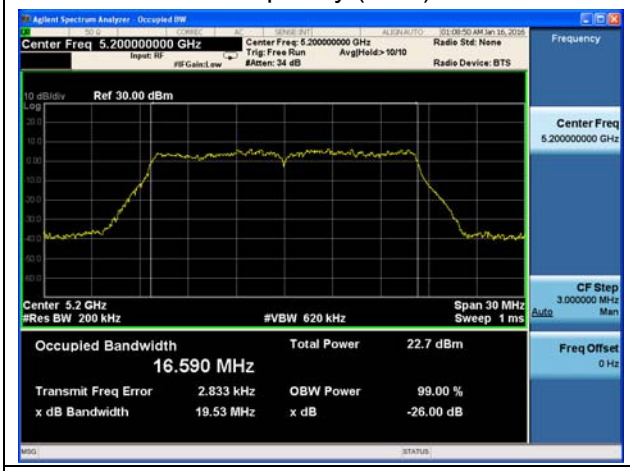
U-NII-1, 802.11n HT20

Carrier frequency (MHz): 5180



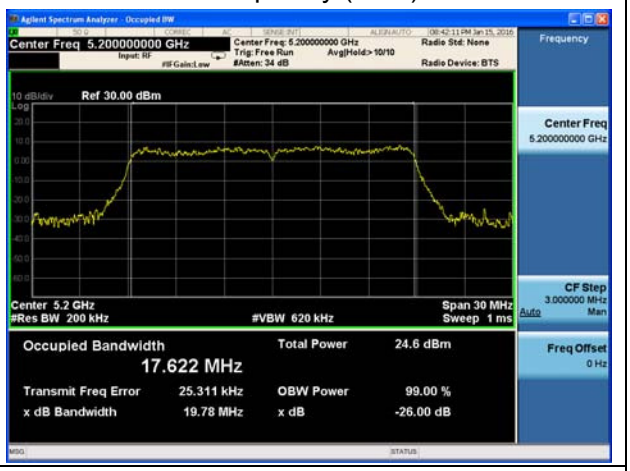
U-NII-1, 802.11a

Carrier frequency (MHz): 5200



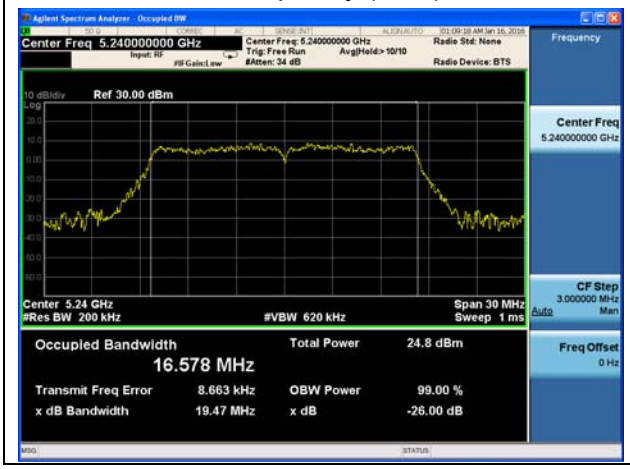
U-NII-1, 802.11n HT20

Carrier frequency (MHz): 5200



U-NII-1, 802.11a

Carrier frequency (MHz):5240



U-NII-1, 802.11n HT20

Carrier frequency (MHz):5240

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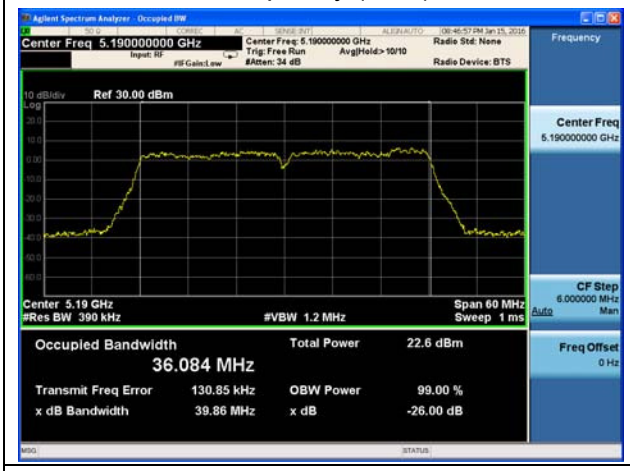
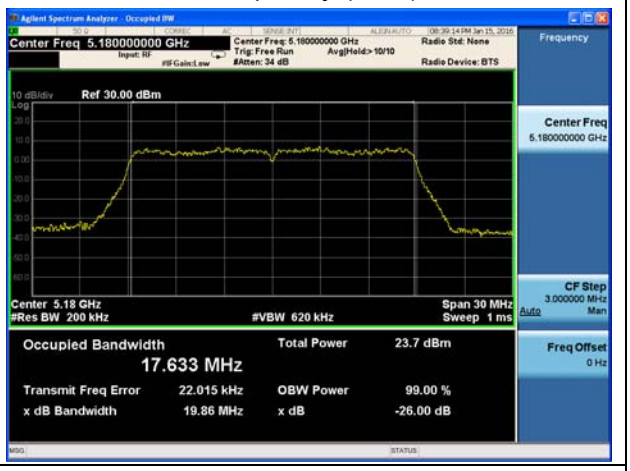
U-NII-1, 802.11n HT40

Carrier frequency (MHz): 5190



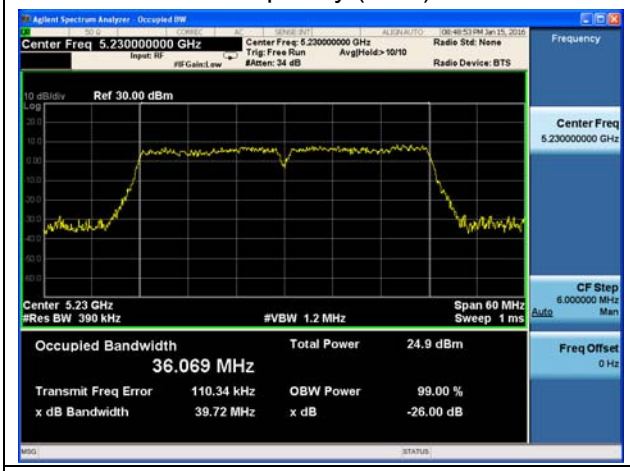
U-NII-1, 802.11ac HT20

Carrier frequency (MHz): 5180



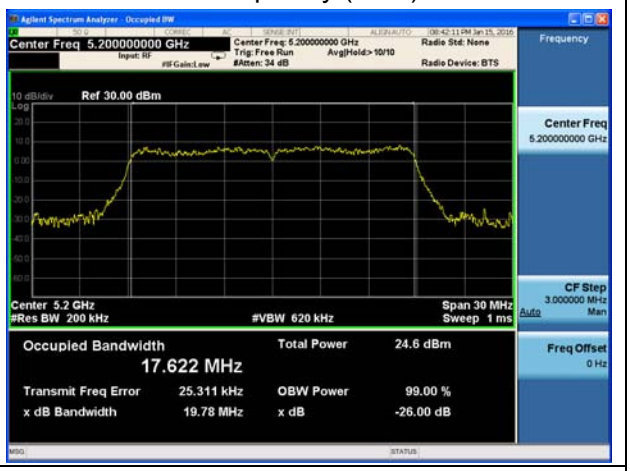
U-NII-1, 802.11n HT40

Carrier frequency (MHz): 5230



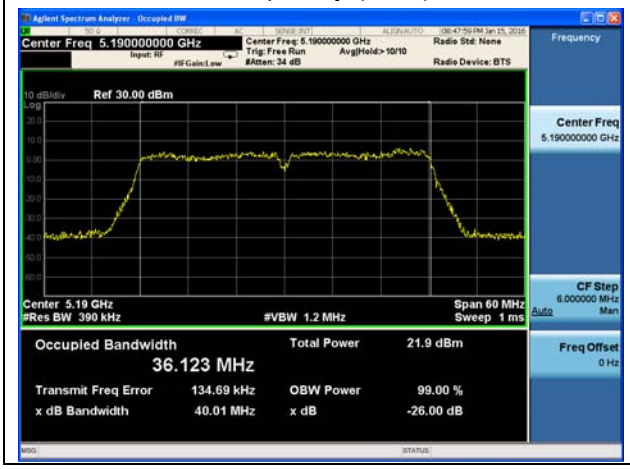
U-NII-1, 802.11ac HT20

Carrier frequency (MHz): 5200



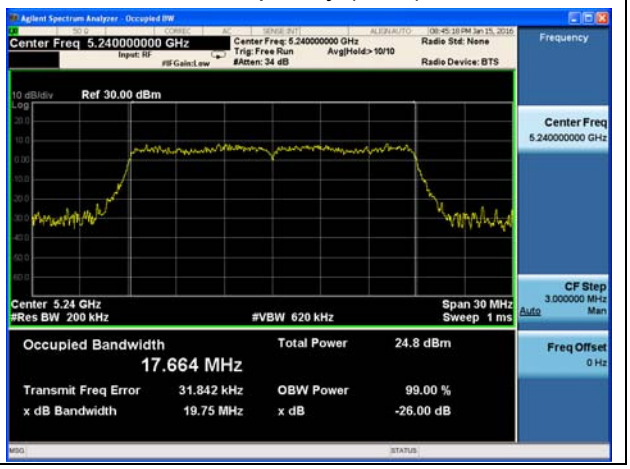
U-NII-1, 802.11ac HT40

Carrier frequency (MHz): 5190



U-NII-1, 802.11ac HT20

Carrier frequency (MHz):5240



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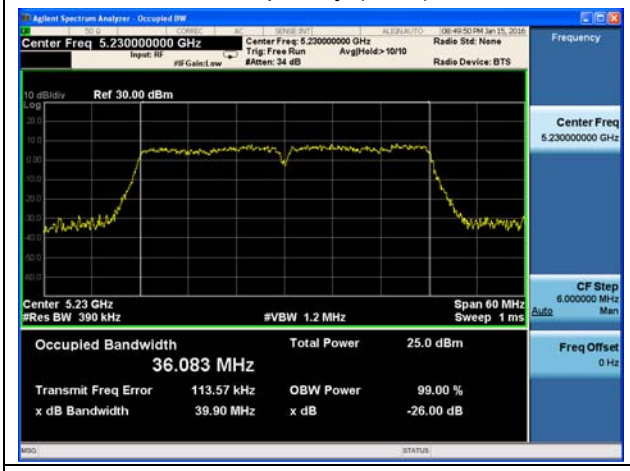
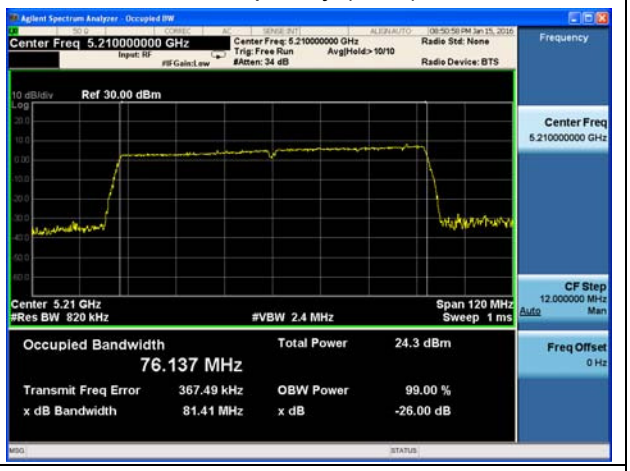
U-NII-1, 802.11ac HT40

Carrier frequency (MHz): 5230



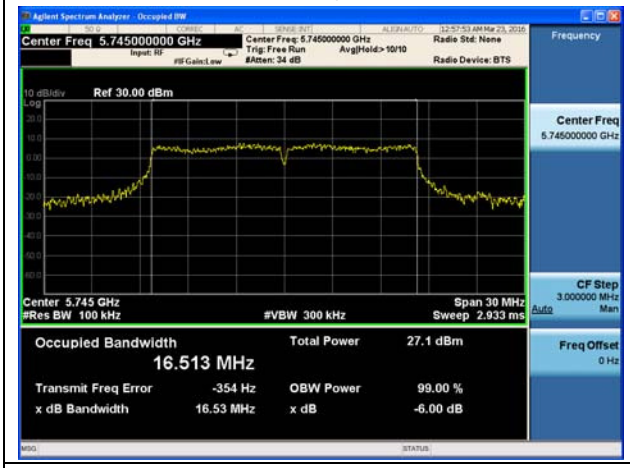
U-NII-1, 802.11ac HT80

Carrier frequency (MHz): 5210



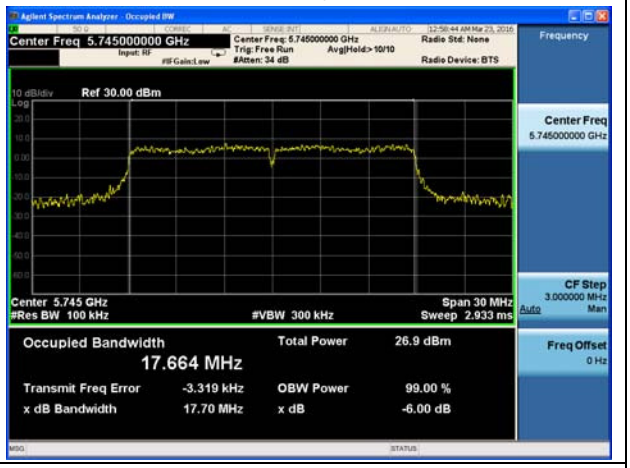
U-NII-3, 802.11a

Carrier frequency (MHz): 5745



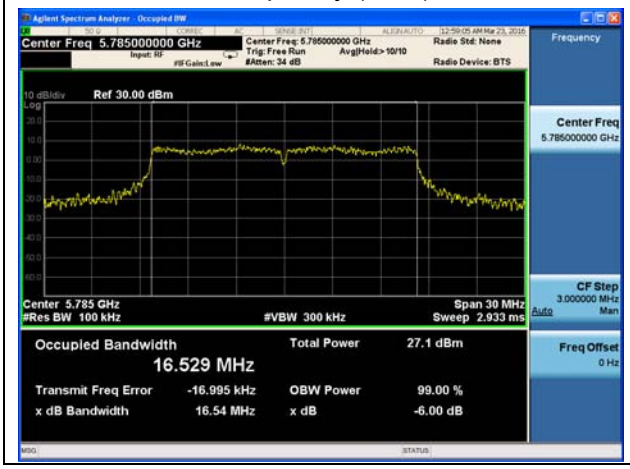
U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5745



U-NII-3, 802.11a

Carrier frequency (MHz): 5785



U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5785

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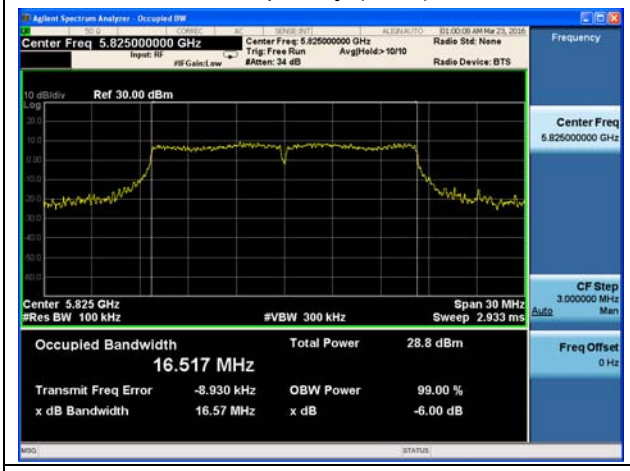
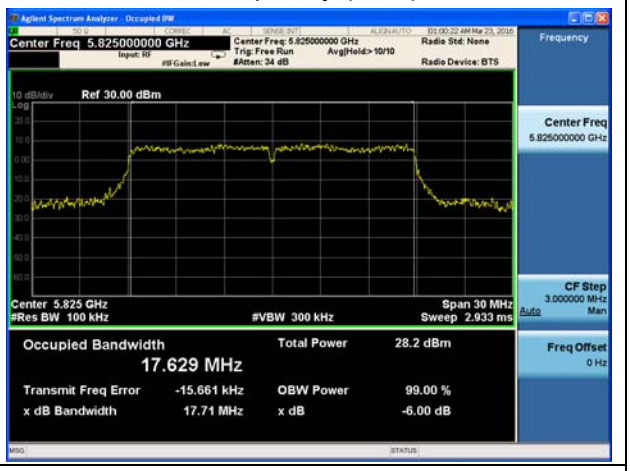
U-NII-3, 802.11a

Carrier frequency (MHz): 5825



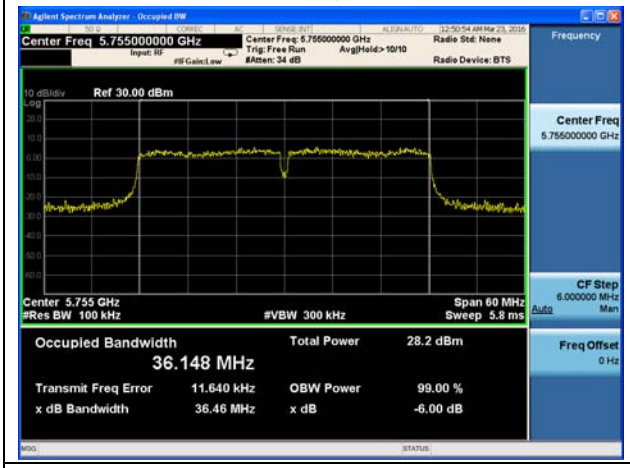
U-NII-3, 802.11n HT20

Carrier frequency (MHz): 5825



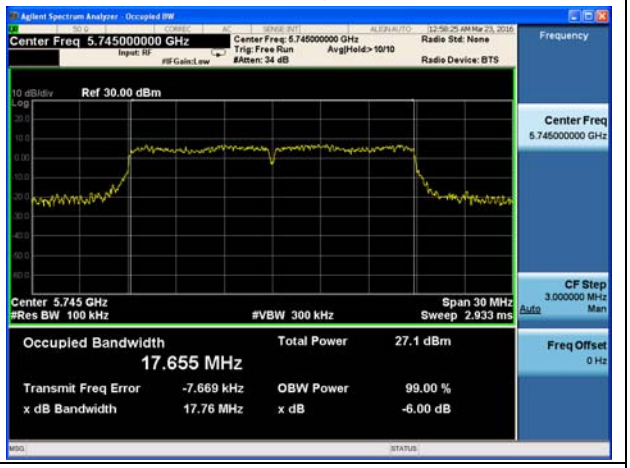
U-NII-3, 802.11n HT40

Carrier frequency (MHz): 5755



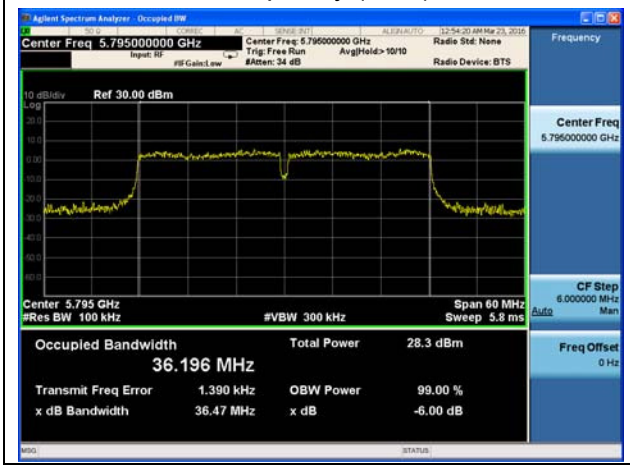
U-NII-3, 802.11ac HT20

Carrier frequency (MHz): 5745



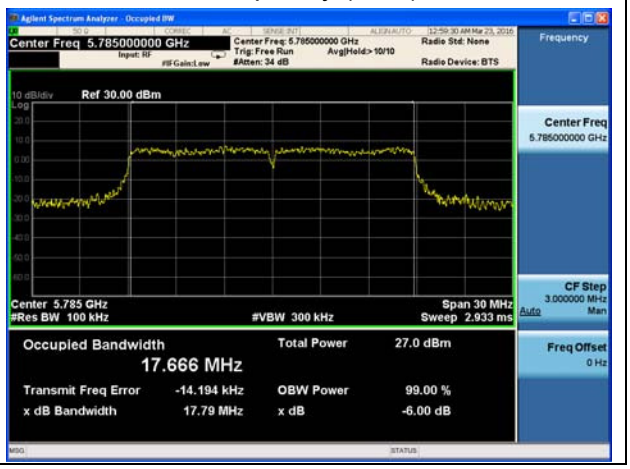
U-NII-3, 802.11n HT40

Carrier frequency (MHz): 5795



U-NII-3, 802.11ac HT20

Carrier frequency (MHz): 5785



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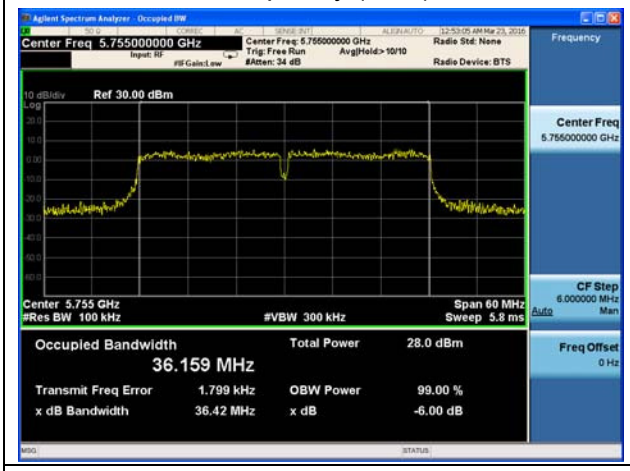
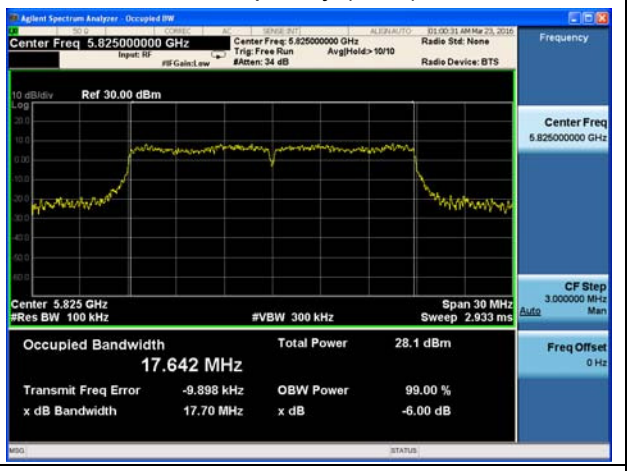
U-NII-3, 802.11ac HT40

Carrier frequency (MHz): 5755



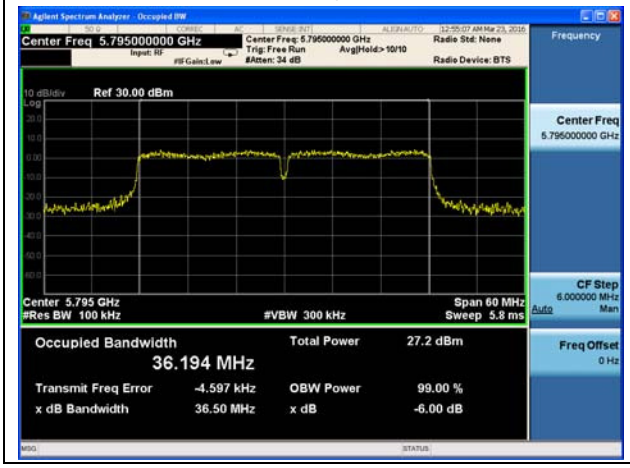
U-NII-3, 802.11ac HT20

Carrier frequency (MHz): 5825



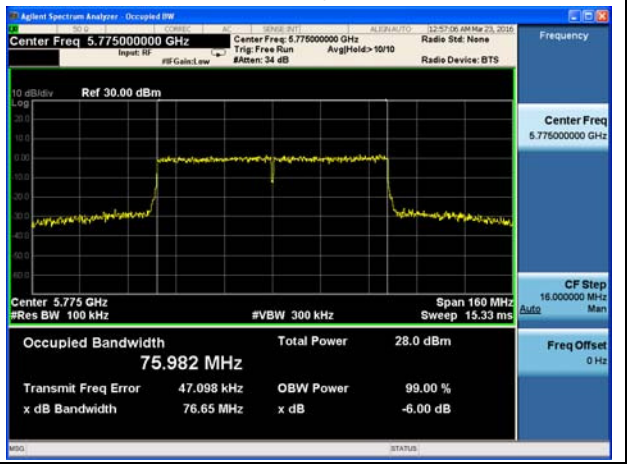
U-NII-3, 802.11ac HT40

Carrier frequency (MHz): 5795



U-NII-3, 802.11ac HT80

Carrier frequency (MHz): 5775



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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.

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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

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Test Results

Antenna 1

U-NII-1

Temperature (°C)	Test Results / 220V Power supply			
	5200MHz			
	1min	2min	5min	10min
-20	5199.9676	5199.9663	5199.9646	5199.9625
-10	5199.9661	5199.9649	5199.9633	5199.9614
0	5199.9647	5199.9633	5199.9614	5199.9592
10	5199.9634	5199.9621	5199.9606	5199.9588
20	5199.9622	5199.9609	5199.9593	5199.9574
30	5199.9608	5199.9597	5199.9583	5199.9567
40	5199.9593	5199.958	5199.9554	5199.9545
50	5199.9576	5199.9564	5199.9549	5199.9526
MHz	0.0424	0.0436	0.0451	0.0474
PPM	8.15	8.38	8.67	9.12

Voltage (V)	Test Results / 20°C			
	5200MHz			
	1min	2min	5min	10min
242	5199.9634	5199.9623	5199.9608	5199.9588
220	5199.9622	5199.9609	5199.9593	5199.9574
198	5199.9608	5199.9599	5199.9585	5199.9567
MHz	0.0392	0.0401	0.0415	0.0433
PPM	7.54	7.71	7.98	8.33

Temperature (°C)	Test Results / 110V Power supply			
	5190MHz			
	1min	2min	5min	10min
0	5189.9598	5189.9585	5189.9568	5189.9547
10	5189.9583	5189.9571	5189.9555	5189.9536
20	5189.9569	5189.9555	5189.9536	5189.9514
30	5189.9556	5189.9543	5189.9528	5189.951
40	5189.9544	5189.9531	5189.9515	5189.9496
50	5189.953	5189.9519	5189.9505	5189.9498
60	5189.9515	5189.9502	5189.9486	5189.9467
70	5189.9498	5189.9486	5189.9471	5189.9448
MHz	0.0502	0.0514	0.0529	0.0552
PPM	9.67	9.9	10.19	10.64

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Voltage (V)	Test Results / 20°C			
	5190MHz			
	1min	2min	5min	10min
121	5189.9556	5189.9545	5189.953	5189.951
110	5189.9544	5189.9531	5189.9515	5189.9496
109	5189.953	5189.9521	5189.9507	5189.9489
MHz	0.047	0.0479	0.0493	0.0511
PPM	9.06	9.23	9.5	9.85

Temperature (°C)	Test Results / 110V Power supply			
	5210MHz			
	1min	2min	5min	10min
0	5209.9538	5209.9525	5209.9508	5209.9487
10	5209.9523	5209.9511	5209.9495	5209.9476
20	5209.9509	5209.9495	5209.9476	5209.9454
30	5209.9496	5209.9483	5209.9468	5209.945
40	5209.9484	5209.9471	5209.9455	5209.9436
50	5209.947	5209.9459	5209.9445	5209.9429
60	5209.9455	5209.9442	5209.9426	5209.9407
70	5209.9438	5209.9426	5209.9411	5209.949
MHz	0.0562	0.0574	0.0589	0.061
PPM	10.79	11.02	11.31	11.71

Voltage (V)	Test Results / 20°C			
	5210MHz			
	1min	2min	5min	10min
121	5209.9496	5209.9485	5209.947	5209.945
110	5209.9484	5209.9471	5209.9455	5209.9436
109	5209.947	5209.9461	5209.9447	5209.9429
MHz	0.053	0.0539	0.0553	0.0571
PPM	10.17	10.35	10.61	10.96

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U-NII-3

Temperature (°C)	Test Results / 110V Power supply			
	5755MHz			
	1min	2min	5min	10min
0	5754.9542	5754.9538	5754.9533	5754.9529
10	5754.9537	5754.9531	5754.9528	5754.9521
20	5754.9529	5754.9527	5754.9519	5754.9516
30	5754.9521	5754.952	5754.9508	5754.9509
40	5754.9513	5754.9512	5754.9501	5754.9499
50	5754.9507	5754.9505	5754.9497	5754.9491
60	5754.9499	5754.9494	5754.9489	5754.9487
70	5754.949	5754.9488	5754.948	5754.9478
MHz	0.051	0.0512	0.052	0.0522
PPM	8.86	8.90	9.04	9.07

Voltage (V)	Test Results / 20°C			
	5755MHz			
	1min	2min	5min	10min
121	5754.9555	5754.9548	5754.9543	5754.9533
110	5754.9549	5754.9541	5754.9538	5754.9527
109	5754.9541	5754.9539	5754.9529	5754.9521
MHz	0.0459	0.0461	0.0471	0.0479
PPM	7.98	8.01	8.18	8.32

Temperature (°C)	Test Results / 110V Power supply			
	5775MHz			
	1min	2min	5min	10min
0	5774.9567	5774.9555	5774.9549	5774.9541
10	5774.956	5774.9549	5774.9541	5774.9534
20	5774.9553	5774.9541	5774.9537	5774.9529
30	5774.9548	5774.9533	5774.9529	5774.9518
40	5774.9541	5774.9528	5774.9518	5774.9509
50	5774.9534	5774.9522	5774.9509	5774.9499
60	5774.9529	5774.9513	5774.9502	5774.9491
70	5774.9522	5774.9507	5774.9494	5774.9487
MHz	0.0478	0.0493	0.0506	0.0513
PPM	8.28	8.54	8.76	8.88

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Voltage (V)	Test Results / 20°C			
	5775MHz			
	1min	2min	5min	10min
121	5774.9558	5774.9549	5774.9539	5774.9532
110	5774.9552	5774.9541	5774.9533	5774.9525
109	5774.9547	5774.9534	5774.9528	5774.9517
MHz	0.0453	0.0466	0.0472	0.0483
PPM	7.84	8.07	8.17	8.36

Temperature (°C)	Test Results / 110V Power supply			
	5785MHz			
	1min	2min	5min	10min
0	5784.9456	5785.9444	5784.9439	5784.9431
10	5784.9449	5784.9438	5784.9433	5784.9423
20	5784.9441	5784.9431	5784.9428	5784.9417
30	5784.9435	5784.9427	5784.9422	5784.9409
40	5784.9429	5784.9421	5784.9418	5784.94
50	5784.9421	5784.9416	5784.941	5784.9393
60	5784.9417	5784.9409	5784.9404	5784.9385
70	5784.9409	5784.9401	5784.9398	5784.9378
MHz	0.0591	0.0599	0.0602	0.0622
PPM	10.22	10.35	10.41	10.75

Voltage (V)	Test Results / 20°C			
	5785MHz			
	1min	2min	5min	10min
121	5784.9545	5784.9537	5784.9529	5784.9515
110	5784.9539	5784.9528	5784.9518	5784.9507
109	5784.9531	5784.9517	5784.9511	5784.9501
MHz	0.0469	0.0483	0.0489	0.0499
PPM	8.11	8.35	8.45	8.63

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5.4. Power Spectral Density

Ambient condition

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

Method of Measurement

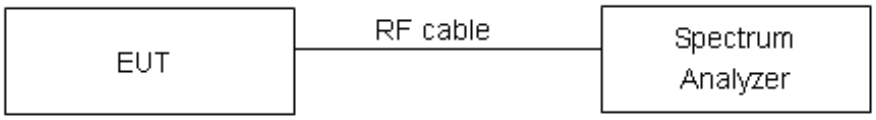
The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 500 kHz, VBW =1.5MHz for the band 5.725-5.85 GHz

Set RBW = 1 MHz, VBW =3MHz for the band 5.150-5.250 GHz

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)(3)/ Part 15.407(a)(1)
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.
For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmittingantennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum powerspectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Frequency Bands/MHz	Limits
5725-5850	30dBm/500kHz
5150-5250	17dBm/MHz

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.

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Test Results:

Antenna 1

U-NII-1

Network Standards	Channel Number	Power Spectral Density (dBm / 3kHz)	Limit (dBm / MHz)	Conclusion
802.11a	36	12.057	17	PASS
	40	13.635	17	PASS
	48	15.936	17	PASS
802.11n HT20	36	14.554	17	PASS
	40	15.574	17	PASS
	48	15.927	17	PASS
802.11n HT40	38	9.945	17	PASS
	46	12.086	17	PASS
802.11ac HT20	36	14.577	17	PASS
	40	15.632	17	PASS
	48	16.066	17	PASS
802.11ac HT40	38	10.055	17	PASS
	46	12.417	17	PASS
802.11ac HT80	42	8.436	17	PASS

U-NII-3

Network Standards	Channel Number	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11a	149	16.029	30	PASS
	157	15.744	30	PASS
	165	16.188	30	PASS
802.11n HT20	149	14.594	30	PASS
	157	13.989	30	PASS
	165	15.496	30	PASS
802.11n HT40	151	12.157	30	PASS
	159	12.844	30	PASS
802.11ac HT20	149	15.481	30	PASS
	157	14.300	30	PASS
	165	15.549	30	PASS
802.11ac HT40	151	12.984	30	PASS
	159	11.571	30	PASS
802.11ac HT80	155	8.092	30	PASS

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MIMO

U-NII-1

Network Standards	Channel Number	SUM (dBm / 3kHz)	Limit (dBm / MHz)	Conclusion
802.11n HT20	36	15.162	17	PASS
	40	15.194	17	PASS
	48	15.762	17	PASS
802.11n HT40	38	16.182	17	PASS
	46	16.309	17	PASS
802.11ac HT20	36	15.396	17	PASS
	40	16.232	17	PASS
	48	16.096	17	PASS
802.11ac HT40	38	15.853	17	PASS
	46	16.749	17	PASS
802.11ac HT80	42	16.218	17	PASS

U-NII-3

Network Standards	Channel Number	SUM (dBm / 3kHz)	Limit (dBm / MHz)	Conclusion
802.11n HT20	149	9.945	30	PASS
	157	10.715	30	PASS
	165	10.325	30	PASS
802.11n HT40	151	5.201	30	PASS
	159	4.924	30	PASS
802.11ac HT20	149	10.088	30	PASS
	157	10.759	30	PASS
	165	10.099	30	PASS
802.11ac HT40	151	7.231	30	PASS
	159	7.681	30	PASS
802.11ac HT80	155	7.375	30	PASS

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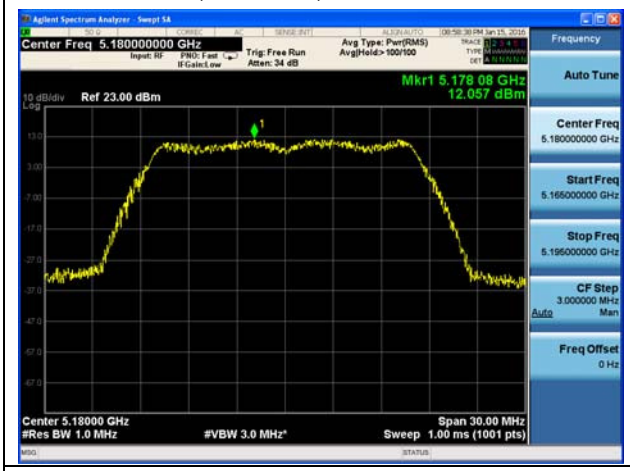
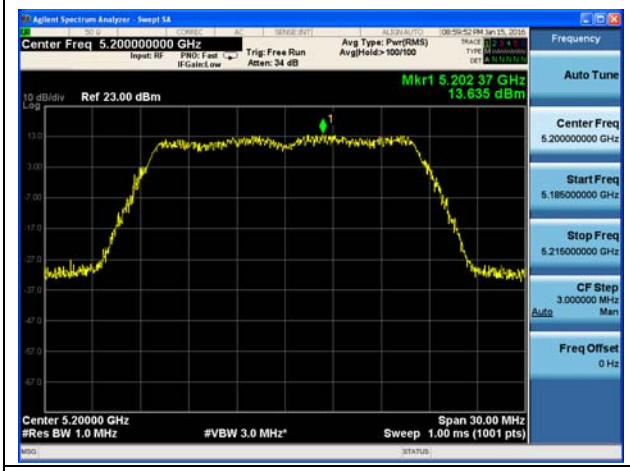
Antenna 1

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

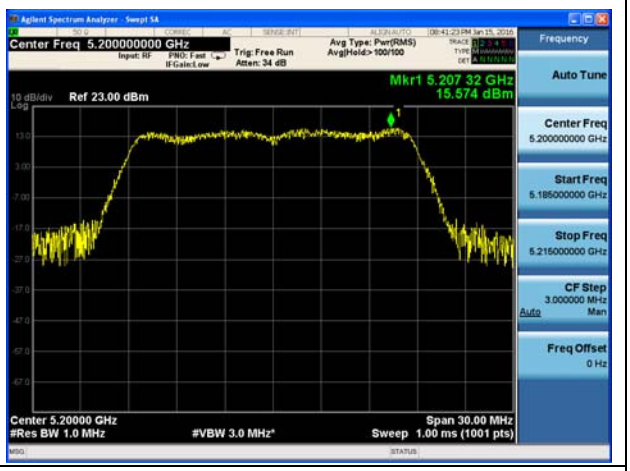


U-NII-1, 802.11n HT20, Channel No.: 36

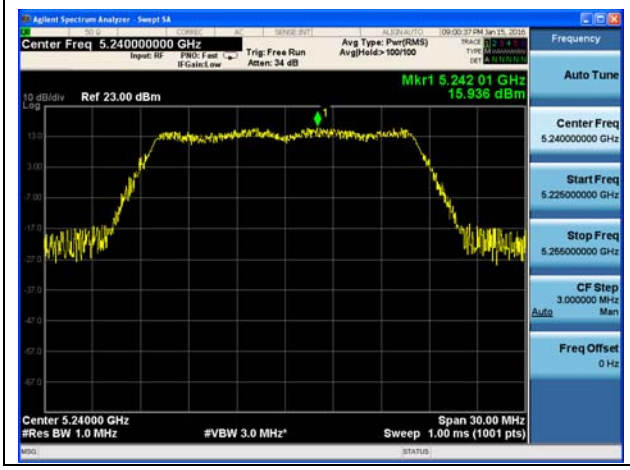
U-NII-1, 802.11a, Channel No.: 40



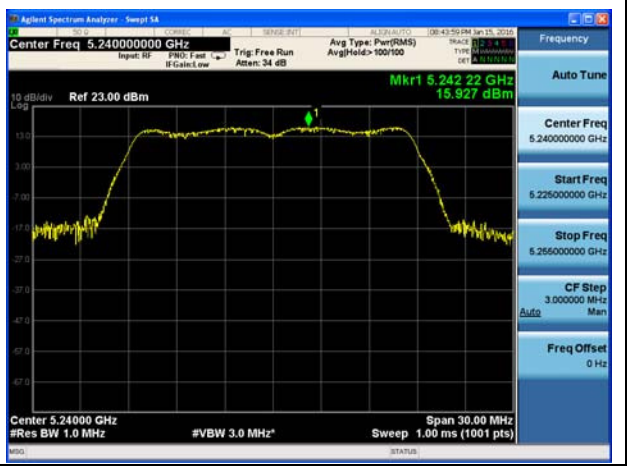
U-NII-1, 802.11n HT20, Channel No.: 40



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



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



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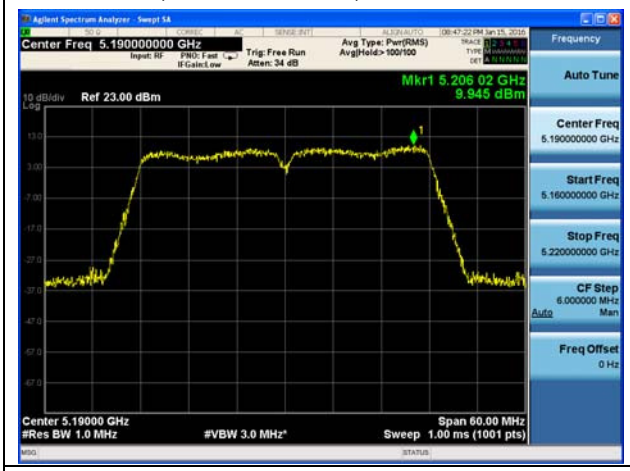
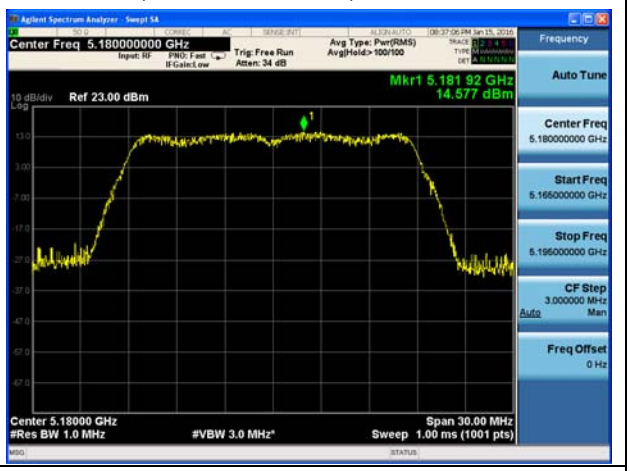
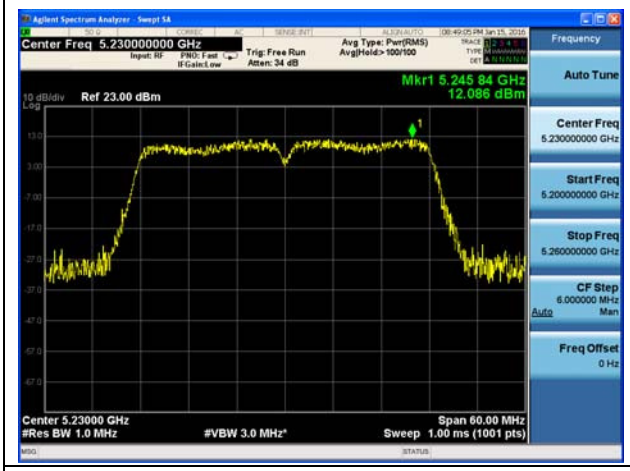
U-NII-1, 802.11n HT40, Channel No.: 38



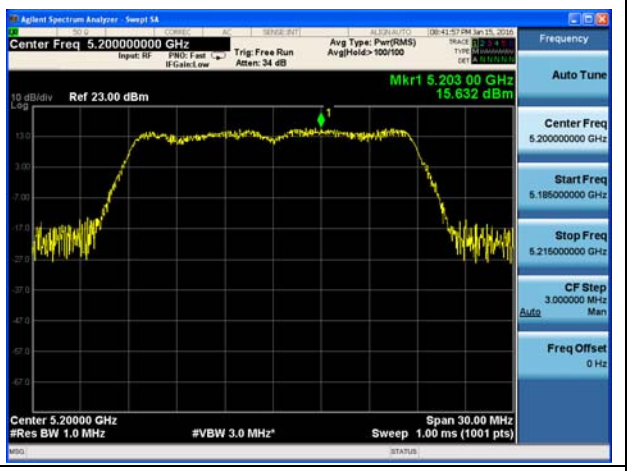
U-NII-1, 802.11ac HT20, Channel No.: 36



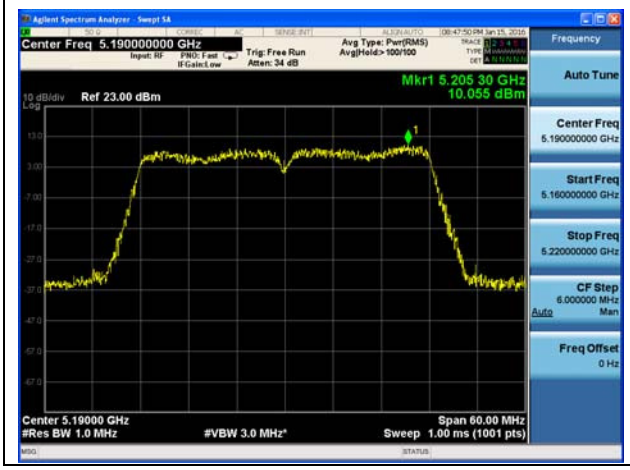
U-NII-1, 802.11n HT40, Channel No.: 46



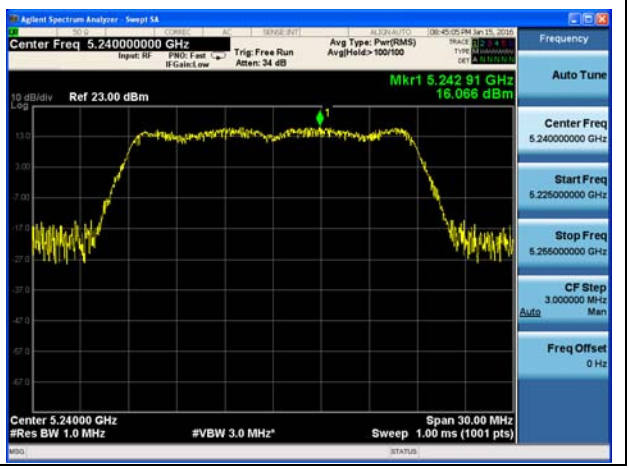
U-NII-1, 802.11ac HT20, Channel No.: 40



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



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



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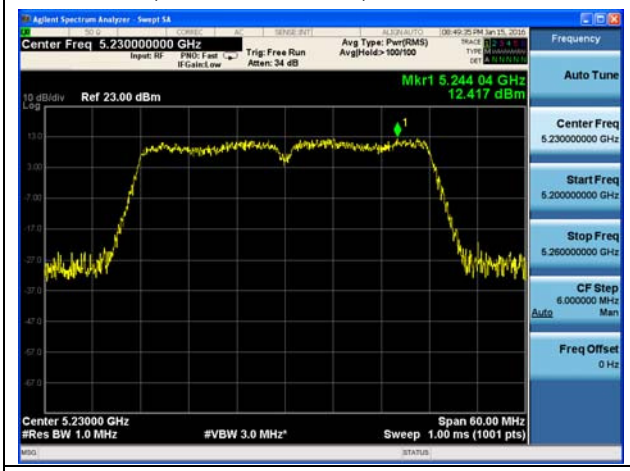
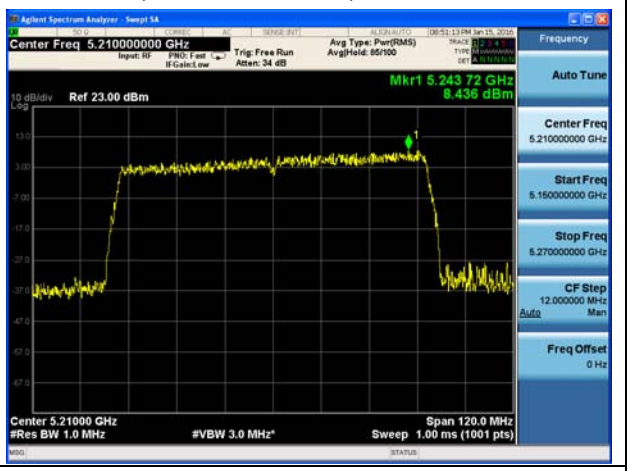
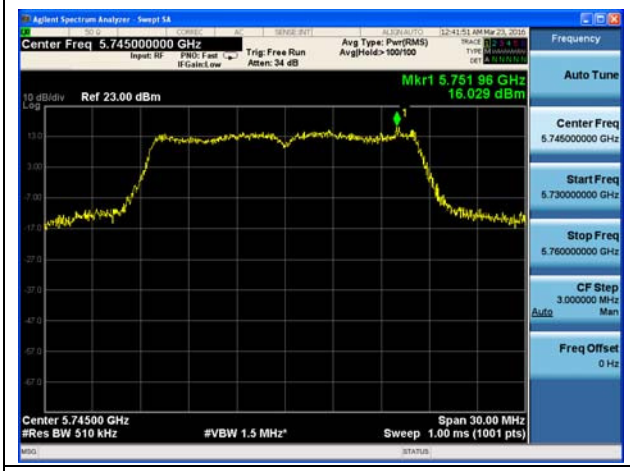
U-NII-1, 802.11ac HT40, Channel No.: 46



U-NII-1, 802.11ac HT80, Channel No.: 42

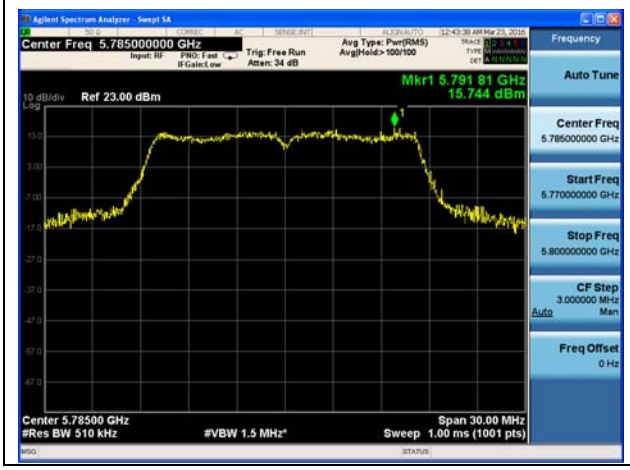


U-NII-3, 802.11a, Channel No.: 149



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

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



U-NII-3, 802.11n HT20, Channel No.: 157

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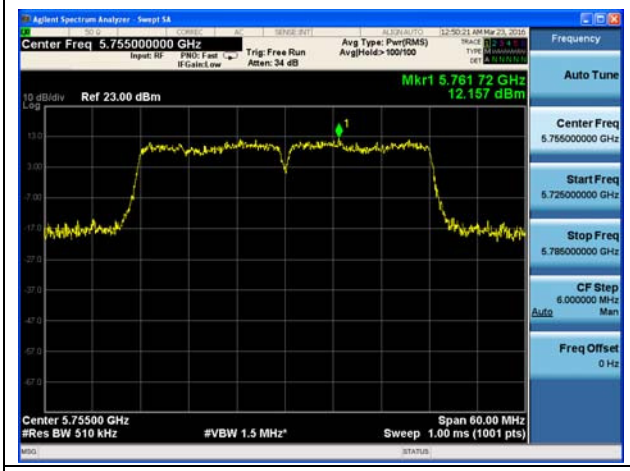
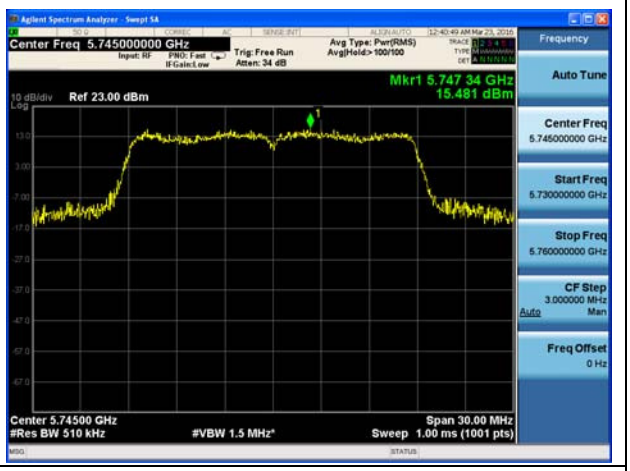
U-NII-3, 802.11a, Channel No.: 165

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

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



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



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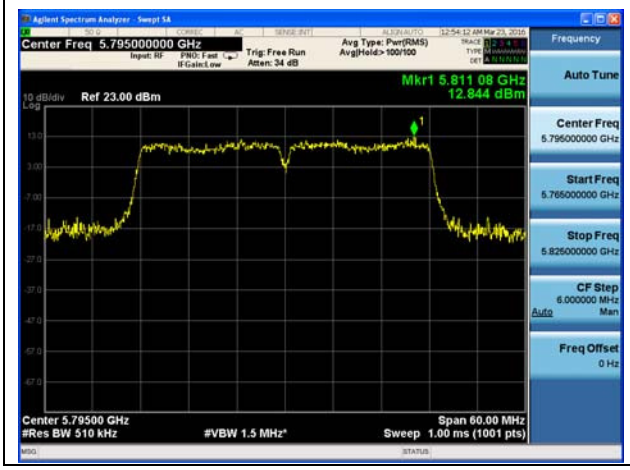
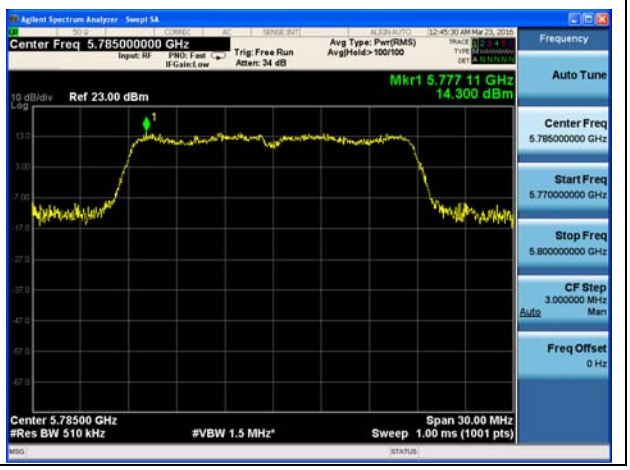


U-NII-3, 802.11ac HT20, Channel No.: 157



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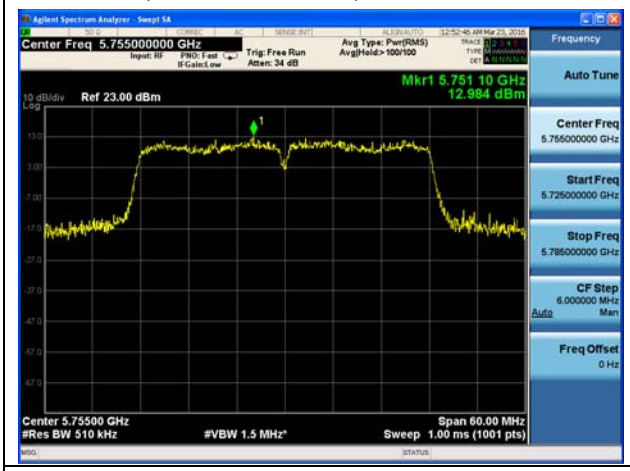
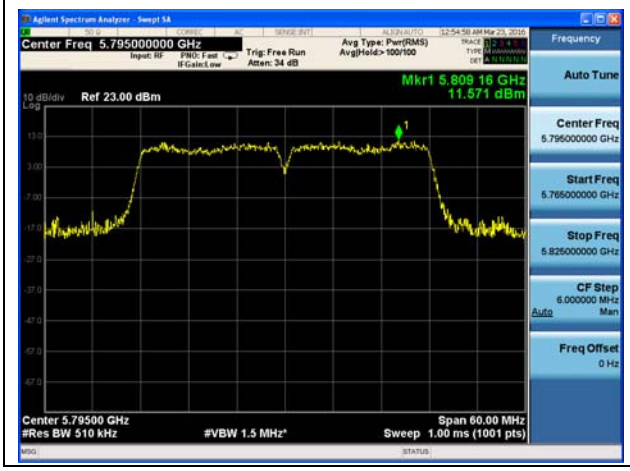
U-NII-3, 802.11ac HT40, Channel No.: 151



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

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



U-NII-3, 802.11ac HT80, Channel No.: 155

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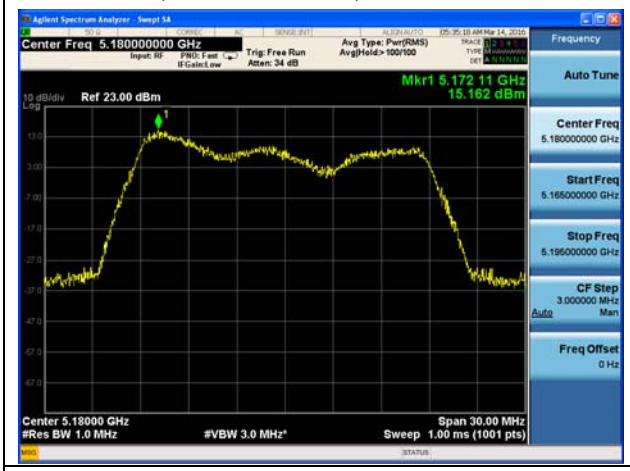
MIMO

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

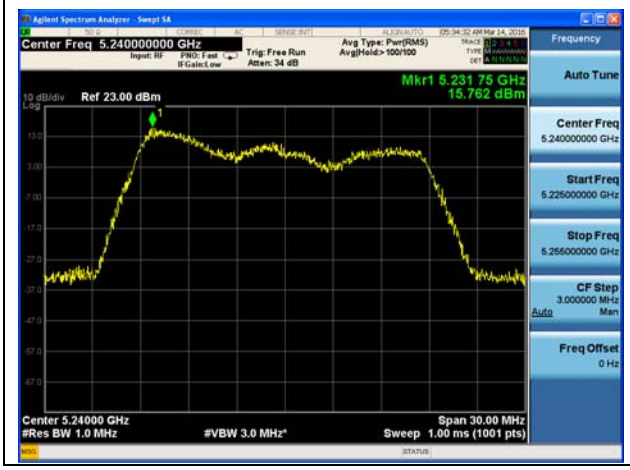


U-NII-1, 802.11ac HT20, Channel No.: 36

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

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

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



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

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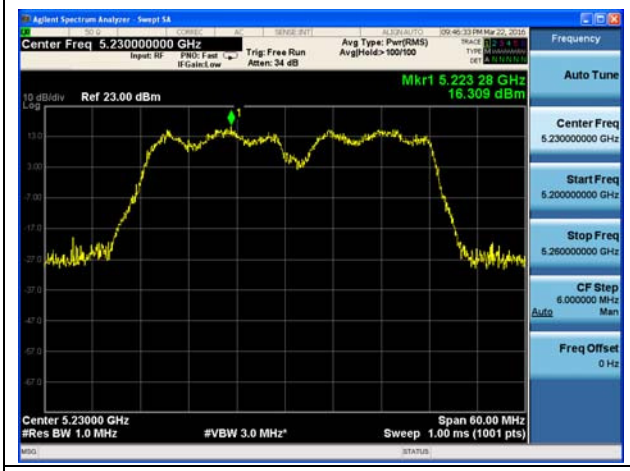
U-NII-1, 802.11n HT40, Channel No.: 38

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

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



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

U-NII-1, 802.11ac HT80, Channel No.: 42

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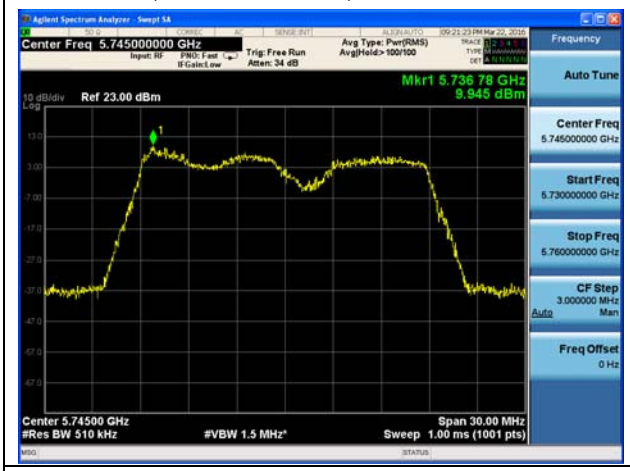
U-NII-3, 802.11n HT20, Channel No.: 149

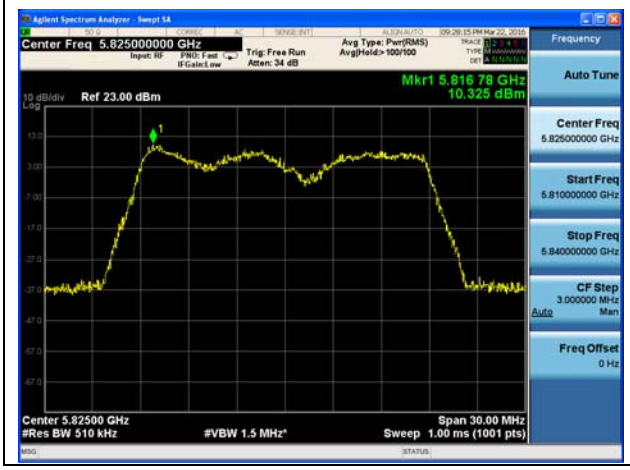


U-NII-3, 802.11ac HT20, Channel No.: 149

U-NII-3, 802.11n HT20, Channel No.: 157

U-NII-3, 802.11ac HT20, Channel No.: 157

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



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

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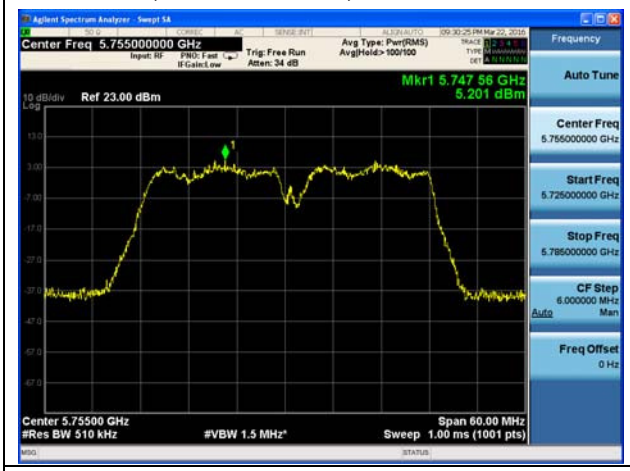
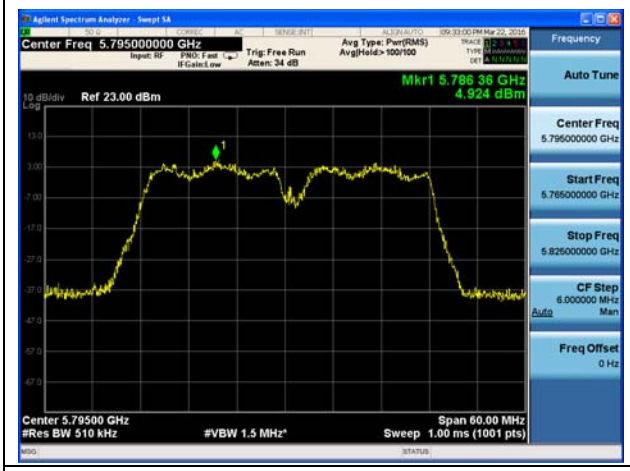
U-NII-3, 802.11n HT40, Channel No.: 151



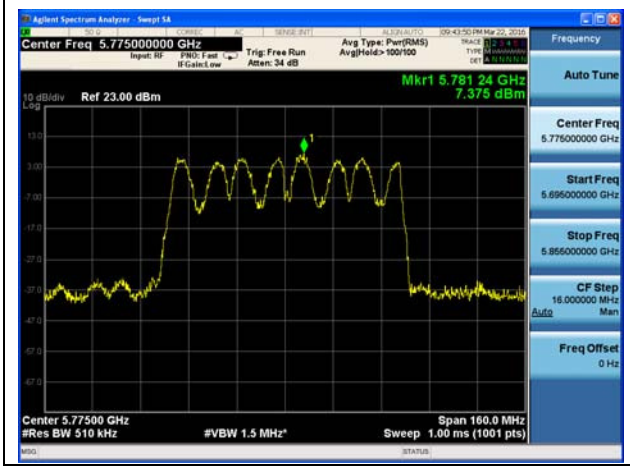
U-NII-3, 802.11ac HT40, Channel No.: 151

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



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

U-NII-3, 802.11ac HT80, Channel No.: 155



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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:
Below 1GHz (detector: Peak and Quasi-Peak)
RBW=100kHz / VBW=300kHz / Sweep=AUTO
Above 1GHz (detector: Peak):
(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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.

The test is in transmitting mode.

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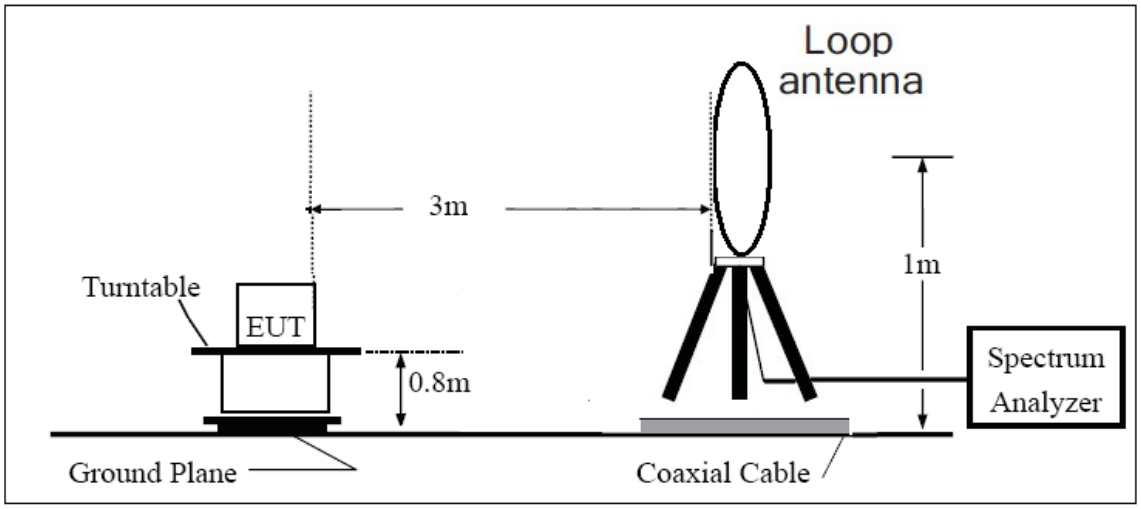
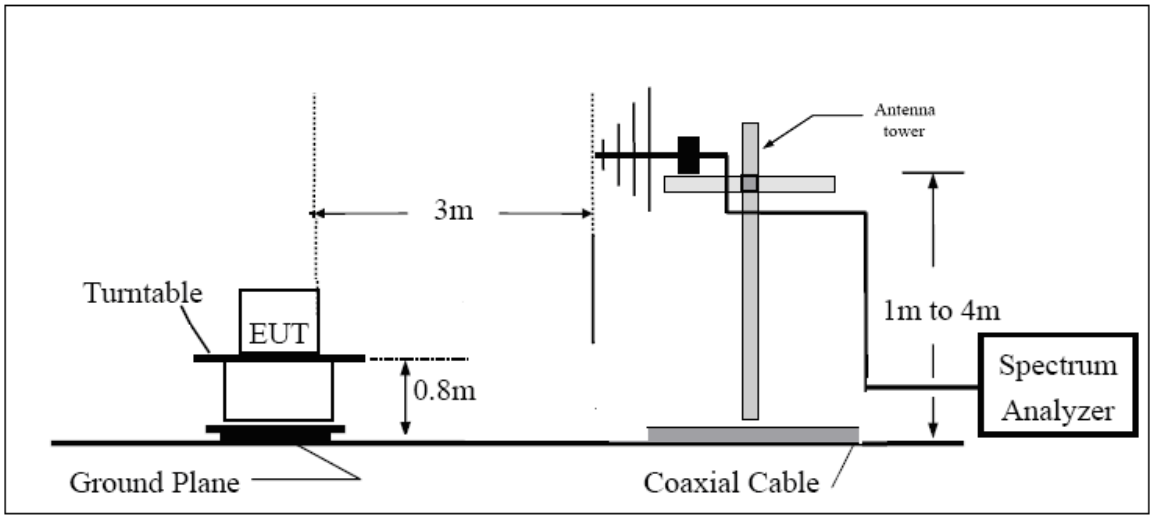
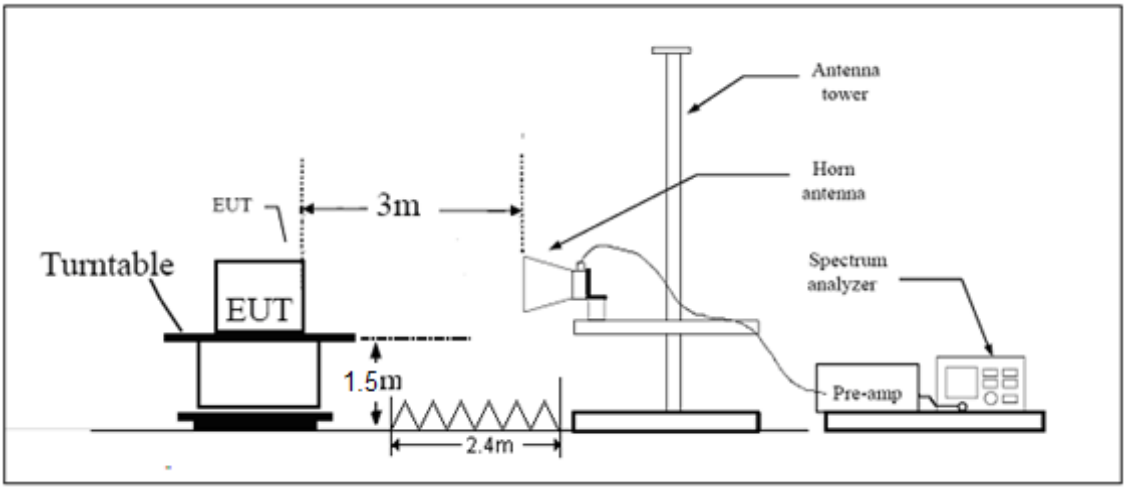
9KHz~~~30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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Limits

(1) For transmitters operating in the 5725-5850 MHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17dBm/MHz (78.3dBμV/m); for frequencies 10MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27dBm/MHz(68.3dBμV/m).

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

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

(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(68.3dBμV/m)..

(3) 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

(4) Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

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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	4.19 dB
200MHz-1GHz	3.63 dB
1GHz-26.5G	3.68 dB
26.5G-40GHz	4.76dB

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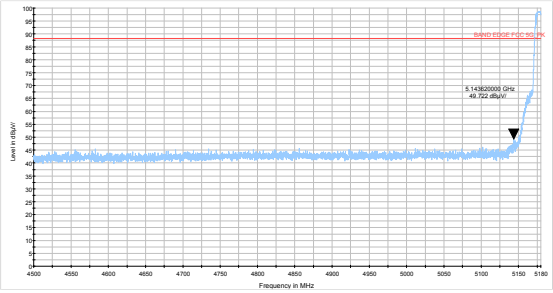
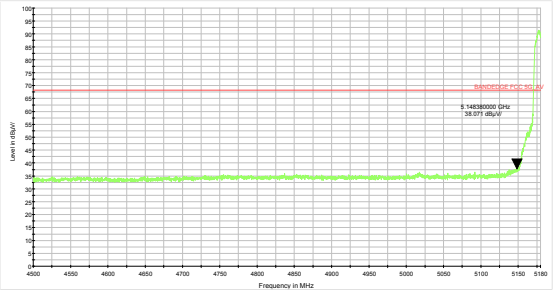
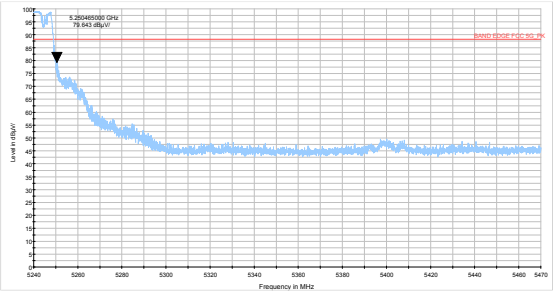
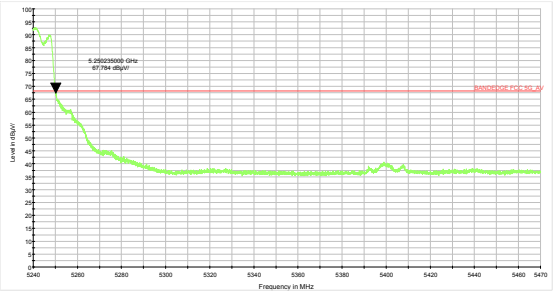
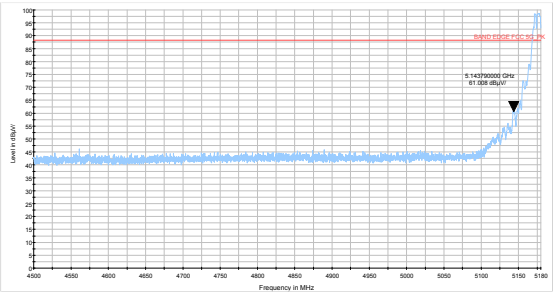
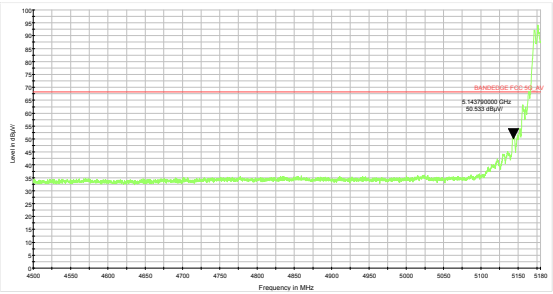
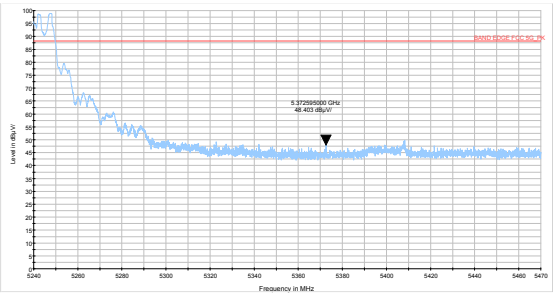
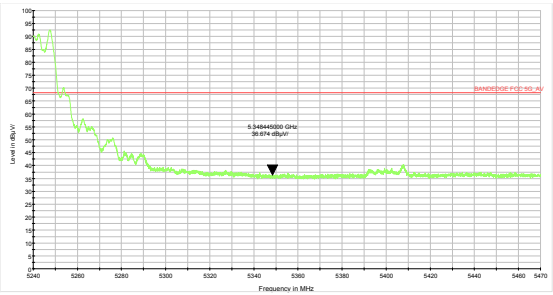
Test Results:

PASS

The signal beyond the limit is carrier.

802.11a-Channel 36: Peak	802.11a-Channel 36: Average
	
802.11a-Channel 48: Peak	**802.11a-Channel 48: Average**
	
802.11n HT20-Channel 36: Peak	**802.11n HT20-Channel 36: Average**
	
802.11n HT20-Channel 48: Peak	**802.11n HT20-Channel 48: Average**
	

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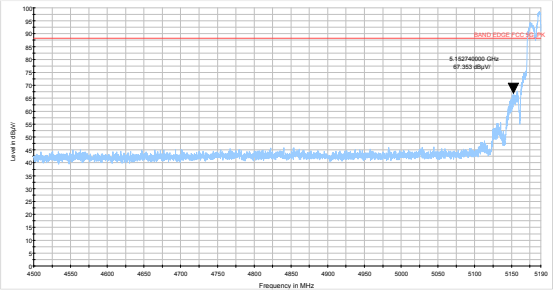
802.11n HT40-Channel 38: Peak



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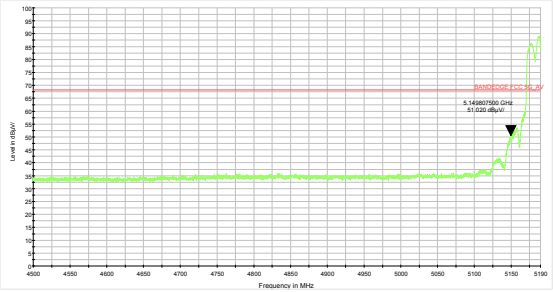
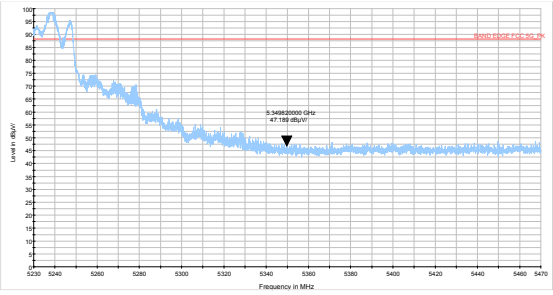
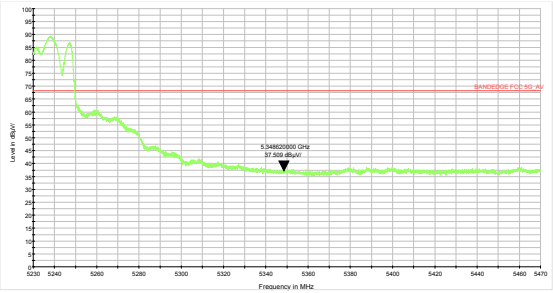


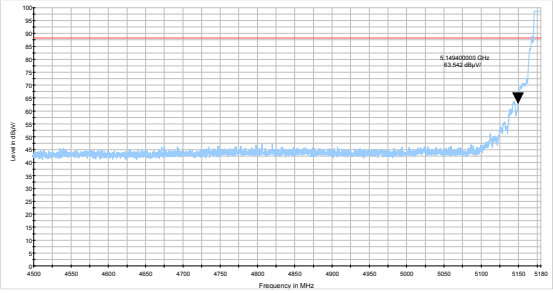
802.11n HT40-Channel 46: Peak



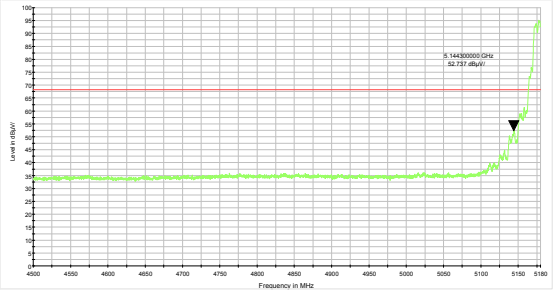
802.11n HT40-Channel 46: Average



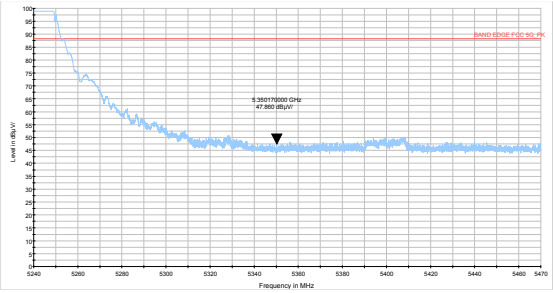
802.11ac HT20 -Channel 36: Peak



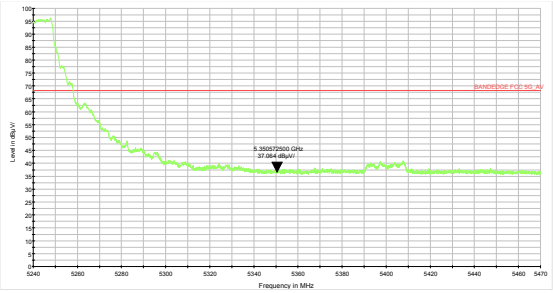
802.11ac HT20-Channel 36: Average



802.11ac HT20 -Channel 48: Peak



802.11ac HT20 -Channel 48: Average



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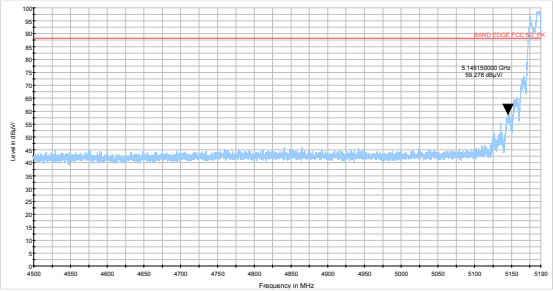
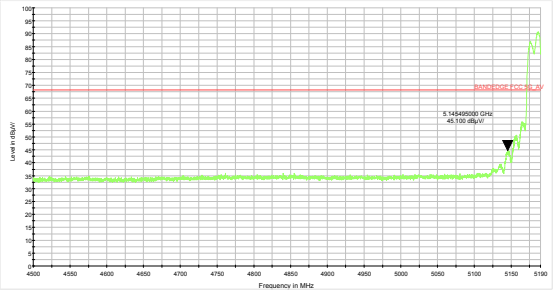
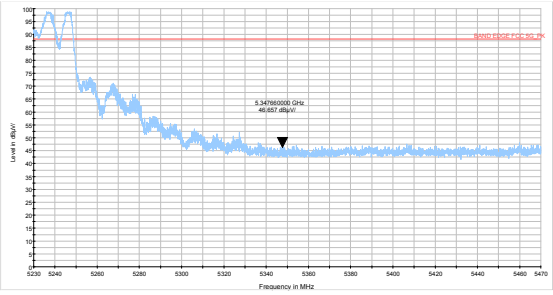
802.11ac HT40-Channel 38: Peak



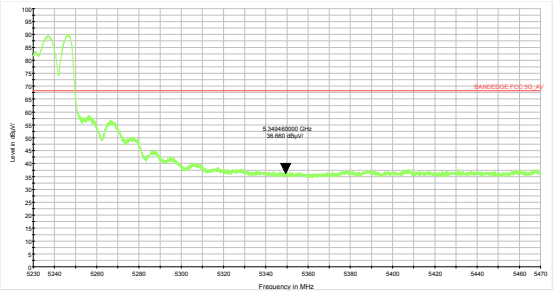
802.11ac HT40-Channel 38: Average



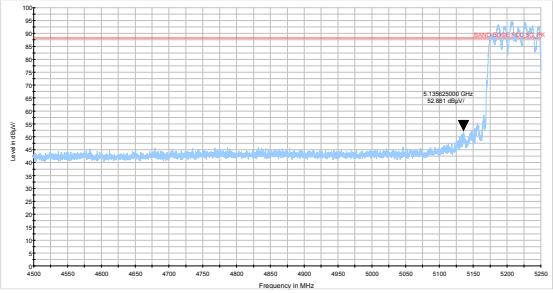
802.11ac HT40-Channel 46: Peak



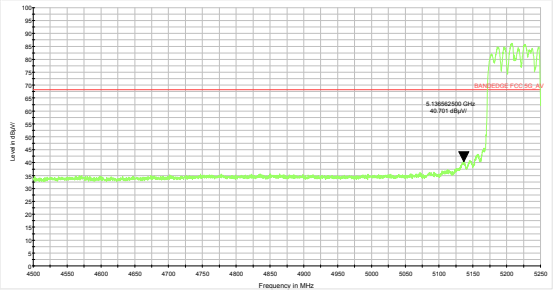
802.11ac HT40-Channel 46: Average



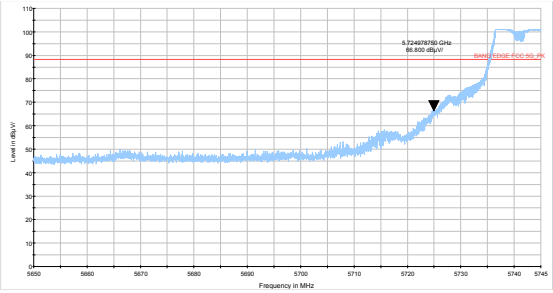
802.11ac HT80 –Channel 42: Peak



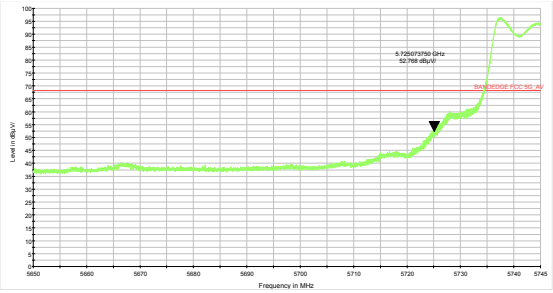
802.11ac HT80- Channel 42: Average



802.11a-Channel 149: Peak



802.11a-Channel 149: Average



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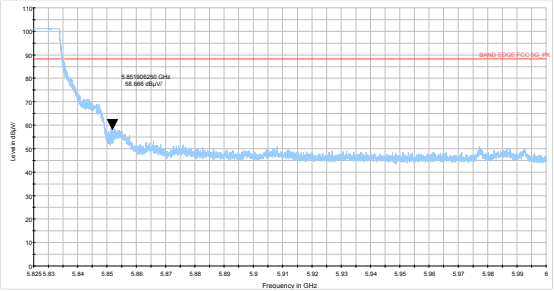
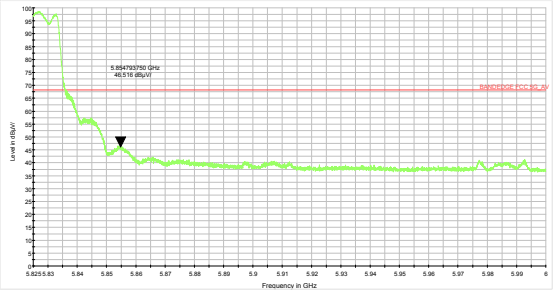
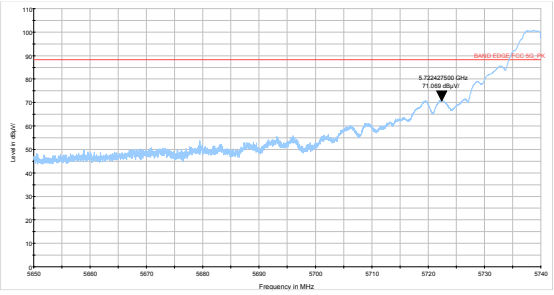
802.11a-Channel 165: Peak



802.11a-Channel 165: Average



802.11n HT20-Channel 149: Peak



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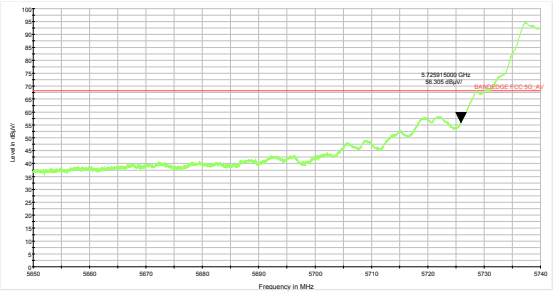

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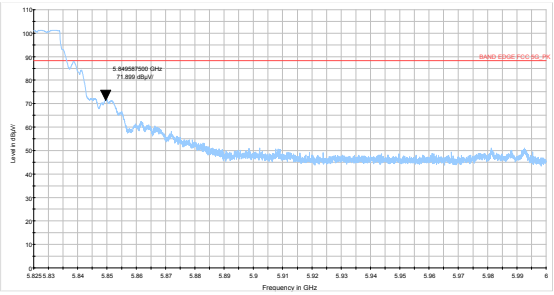

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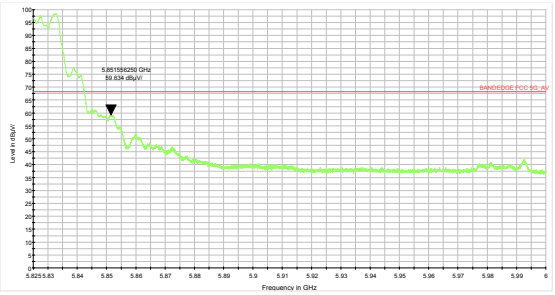
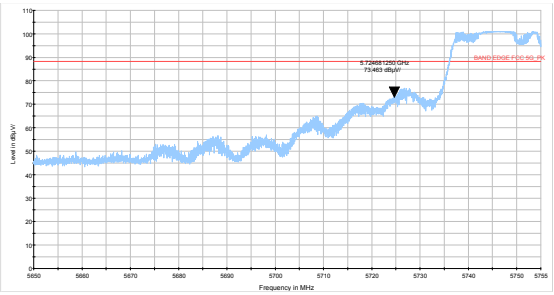


802.11n HT40-Channel 151: Peak



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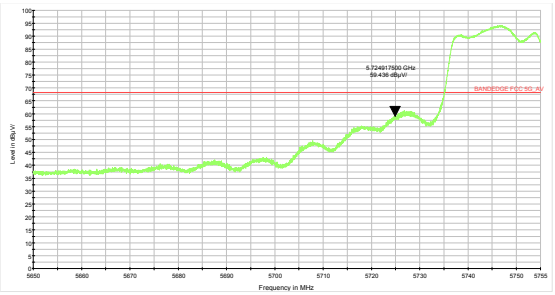

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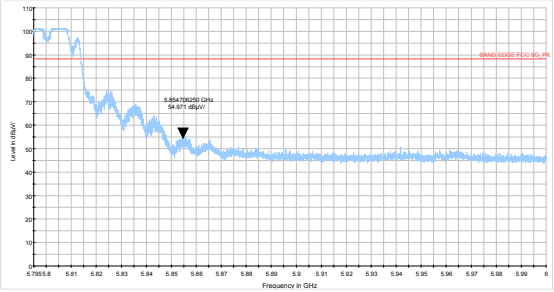
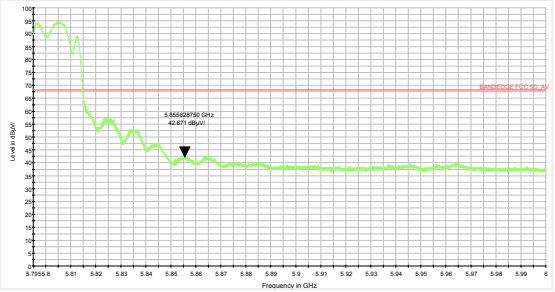
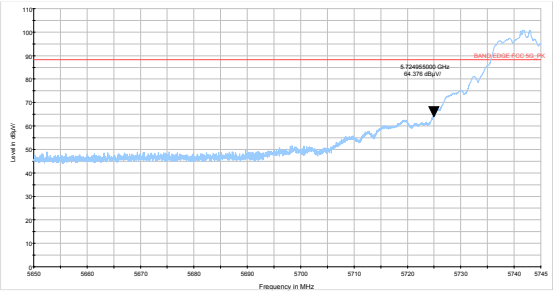
802.11n HT40-Channel 159: Peak



802.11n HT40-Channel 159: Average



802.11ac HT20-Channel 149: Peak



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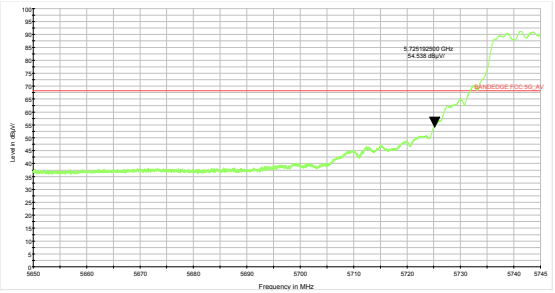
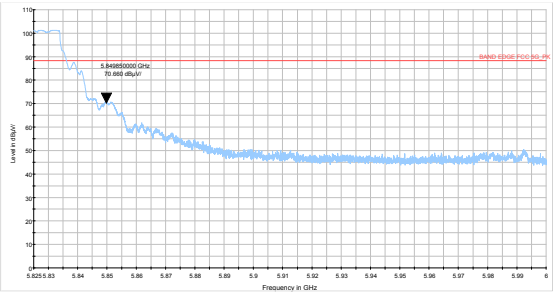
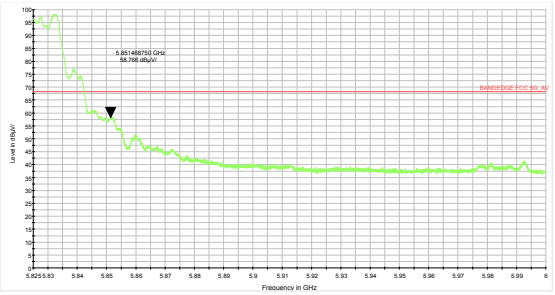


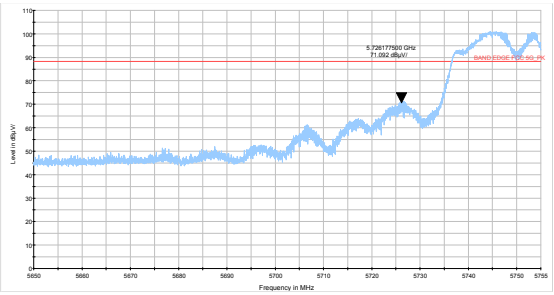
802.11ac HT20-Channel 165: Peak



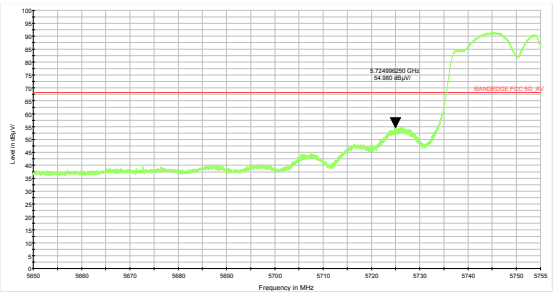
802.11ac HT20-Channel 165: Average



802.11ac HT40-Channel 151: Peak



802.11ac HT40-Channel 151: Average



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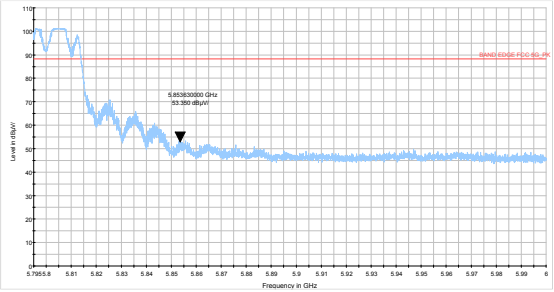
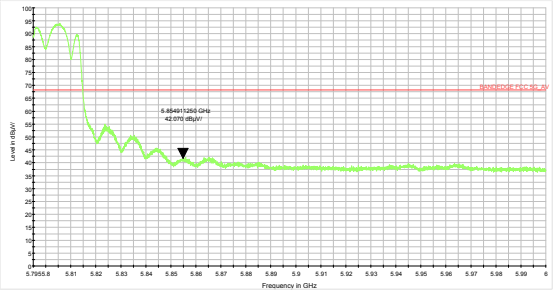
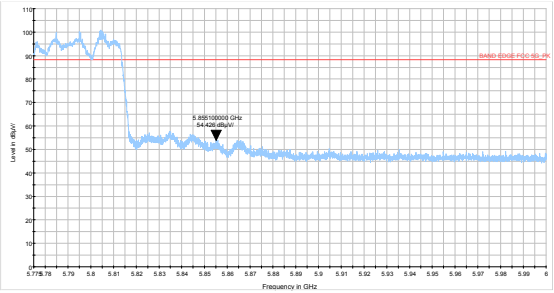
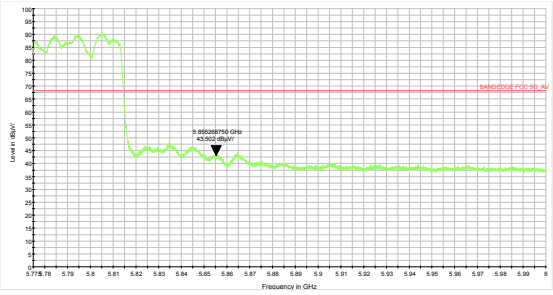
802.11ac HT40-Channel 159: Peak	802.11ac HT40-Channel 159: Average
	
802.11ac HT80- Channel 155: Peak	**802.11ac HT80- Channel 155: Average**
	

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Result of RE

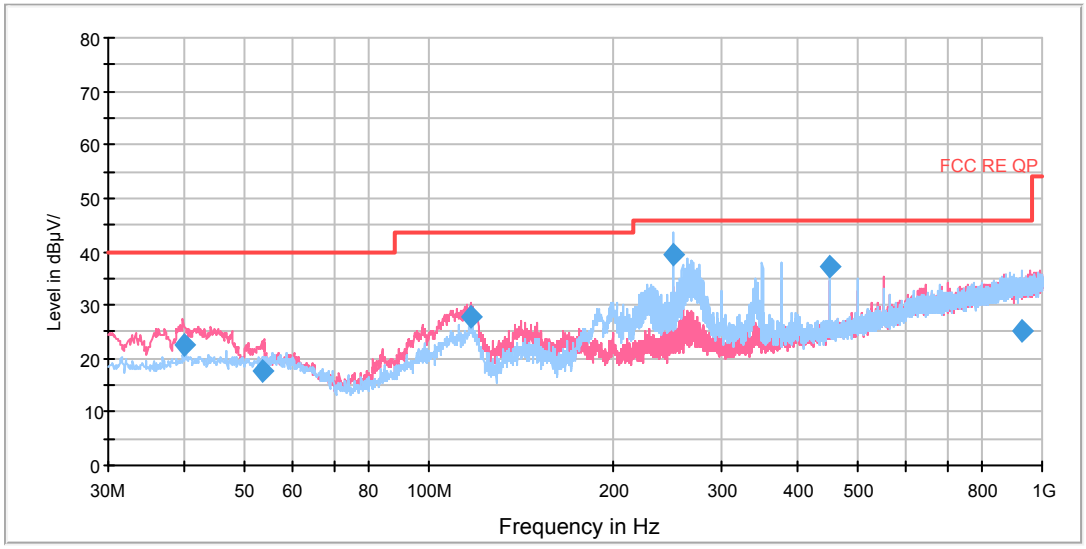
Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, and 9KHz-30MHz, the emissions more than 20 dB below the permissible value are not reported.

U-NII-1

802.11a CH36

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
39.860000	22.4	100.0	V	124.0	35.6	13.2	17.6	40.0
53.407500	17.5	100.0	V	47.0	30.3	12.8	22.5	40.0
117.135000	27.7	100.0	V	326.0	38.8	11.1	15.8	43.5
249.987500	39.6	114.0	H	22.0	53.7	14.1	6.4	46.0
450.010000	37.1	100.0	H	234.0	56.1	19.0	8.9	46.0
927.735000	25.1	100.0	H	69.0	51.0	25.9	20.9	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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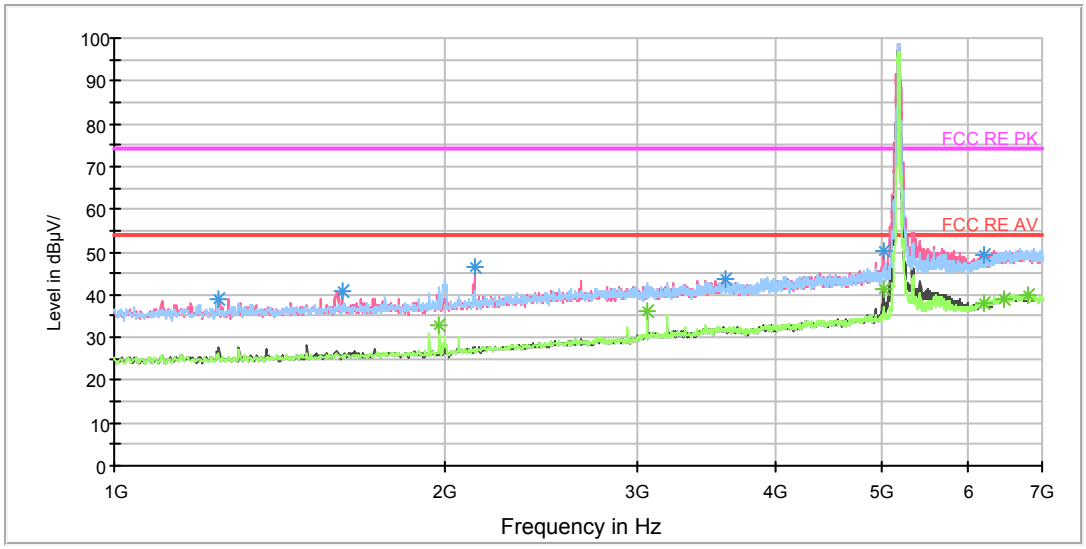
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1246.000000	39.1	100.0	V	86.0	49.5	-10.4	34.9	74
1612.000000	40.9	100.0	V	128.0	49.8	-8.9	33.1	74
2131.000000	46.5	100.0	V	96.0	53.4	-6.9	27.5	74
3610.000000	43.7	100.0	H	99.0	46.3	-2.6	30.3	74
5023.000000	50.0	100.0	V	138.0	50.3	-0.3	24.0	74
6184.000000	49.5	100.0	V	0.0	53.2	3.7	24.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1979.500000	33.0	100.0	H	0.0	40.9	-7.9	21.0	54
3062.500000	35.9	100.0	H	304.0	39.6	-3.7	18.1	54
5017.000000	41.2	100.0	V	138.0	41.5	-0.3	12.8	54
6196.000000	38.2	100.0	H	0.0	42.0	3.8	15.8	54
6449.500000	39.1	100.0	V	5.0	44.3	5.2	14.9	54
6796.000000	39.7	100.0	H	0.0	44.7	5.0	14.3	54

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

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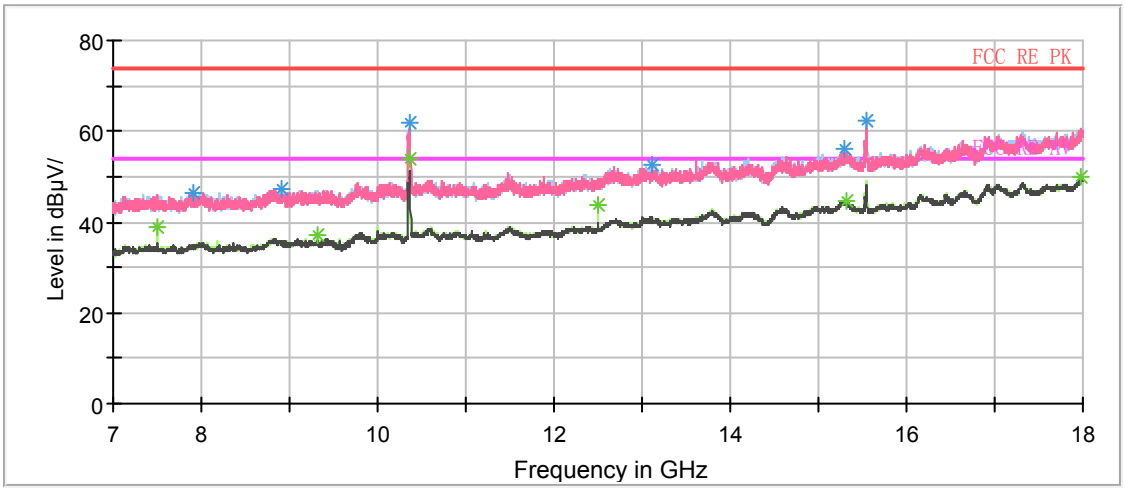
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7914.375000	46.3	100.0	H	343.0	55.3	9.0	27.7	74
8908.500000	47.3	100.0	H	170.0	57.8	10.5	26.7	74
10361.875000	61.9	100.0	H	299.0	73.5	11.6	12.1	74
13113.250000	52.4	100.0	V	91.0	68.4	16.0	21.6	74
15296.750000	56.2	100.0	H	199.0	75.8	19.6	17.8	74
15541.500000	62.5	100.0	H	91.0	82.2	19.7	11.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	38.7	100.0	H	76.0	46.4	7.7	15.3	54
9312.750000	37.1	100.0	H	91.0	47.7	10.6	16.9	54
10360.500000	54.0	100.0	H	299.0	65.6	11.6	0.0	54
12500.000000	43.8	100.0	H	107.0	59.0	15.2	10.2	54
15324.250000	44.6	100.0	V	0.0	64.0	19.4	9.4	54
17984.875000	49.8	100.0	H	121.0	75.0	25.2	4.2	54

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

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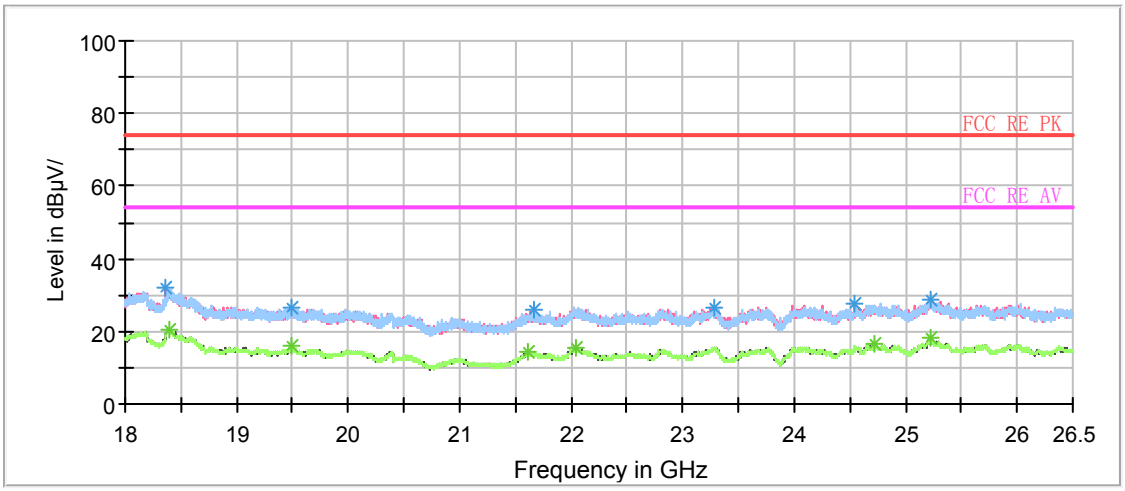
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18401.625000	30.2	H	236.0	35.1	-4.9	43.8	74
19496.000000	24.7	V	245.0	32.3	-7.6	49.3	74
21621.000000	22.9	H	270.0	31.9	-9.0	51.1	74
22042.812500	24.4	H	168.0	32.4	-8.0	49.6	74
24729.875000	26.1	V	0.0	32.3	-6.2	47.9	74
25232.437500	27.7	H	278.0	33.6	-5.9	46.3	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18401.625000	20.7	H	236.0	25.6	-4.9	33.3	54
19496.000000	15.9	V	245.0	23.5	-7.6	38.1	54
21621.000000	14.1	H	270.0	23.1	-9.0	39.9	54
22042.812500	15.7	H	168.0	23.7	-8.0	38.3	54
24729.875000	16.3	V	0.0	22.5	-6.2	37.7	54
25232.437500	18.1	H	278.0	24.0	-5.9	35.9	54

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

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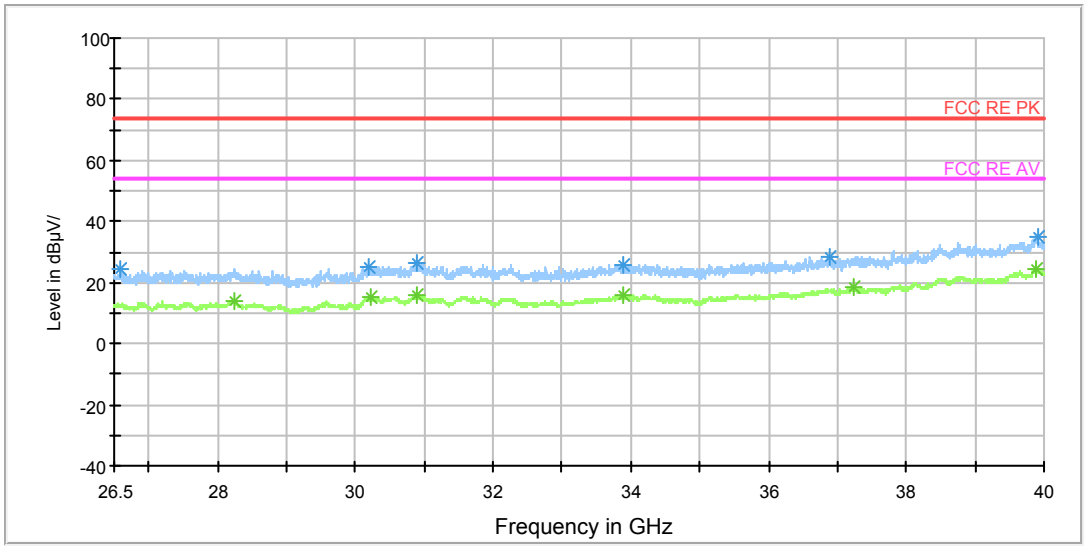
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28258.375000	22.1	100.0	V	0.0	43.8	-21.7	51.9	74
30212.500000	23.4	100.0	V	0.0	45.3	-21.9	50.6	74
30894.250000	24.1	100.0	V	0.0	45.4	-21.3	49.9	74
33877.750000	26.0	100.0	V	0.0	47.6	-21.6	48.0	74
37249.375000	26.1	100.0	H	0.0	47.5	-21.4	47.9	74
39878.500000	32.7	100.0	H	0.0	53.1	-20.4	41.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28258.375000	14.2	100.0	V	0.0	35.9	-21.7	39.8	54
30212.500000	15.1	100.0	V	0.0	37.0	-21.9	38.9	54
30894.250000	16.0	100.0	V	0.0	37.3	-21.3	38.0	54
33877.750000	15.8	100.0	V	0.0	37.4	-21.6	38.2	54
37249.375000	18.3	100.0	H	0.0	39.7	-21.4	35.7	54
39878.500000	24.5	100.0	H	0.0	44.9	-20.4	29.5	54

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

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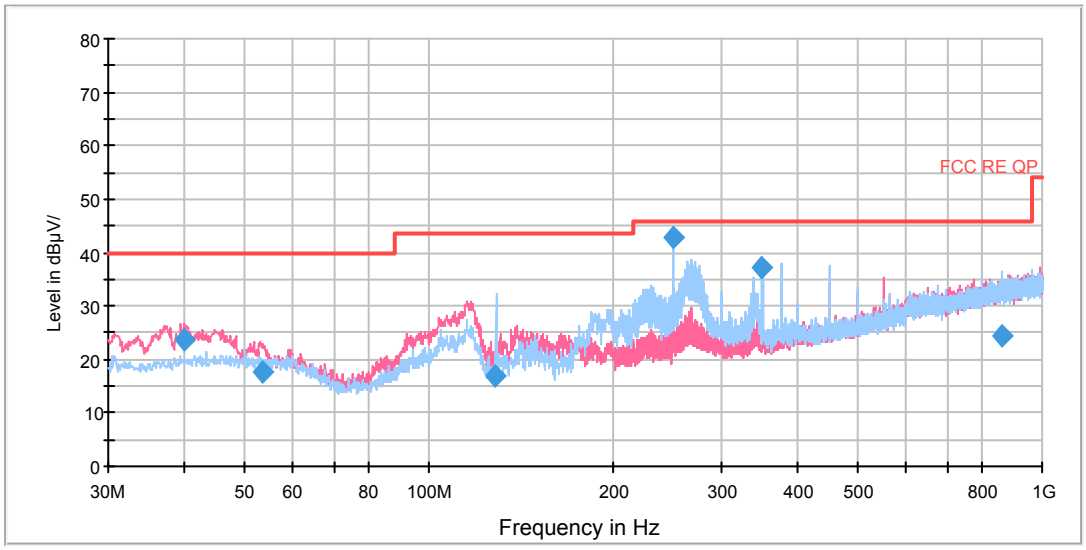
802.11a CH40

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.022500	23.5	100.0	V	178.0	36.7	13.2	16.5	40.0
53.447500	17.7	100.0	V	168.0	30.5	12.8	22.3	40.0
128.337500	16.7	125.0	H	272.0	26.3	9.6	26.8	43.5
250.028750	42.9	125.0	H	202.0	57.0	14.1	3.1	46.0
349.978750	37.1	100.0	H	60.0	53.8	16.7	8.9	46.0
860.398750	24.3	100.0	H	232.0	49.4	25.1	21.7	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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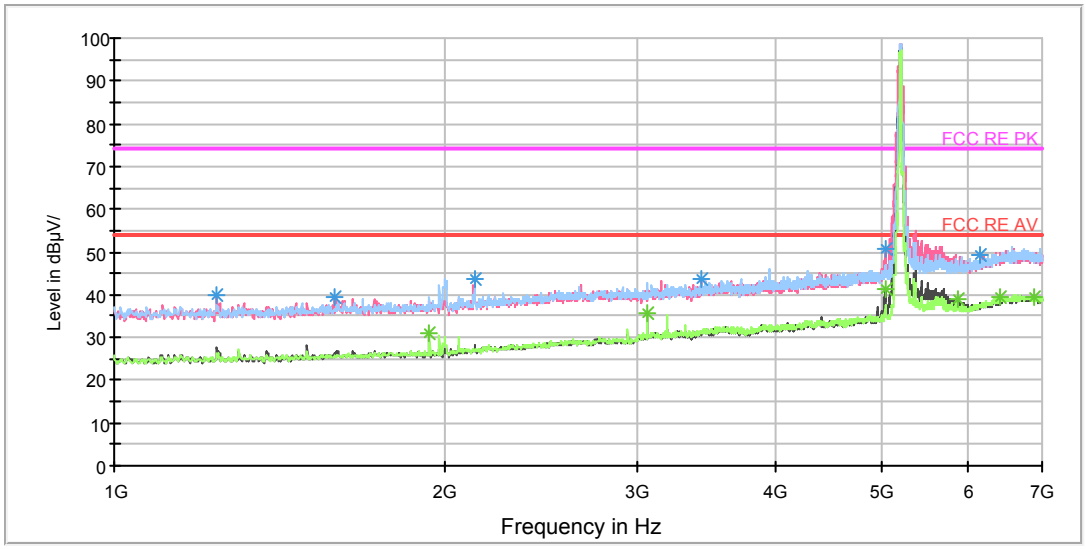
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1241.500000	40.0	100.0	V	90.0	50.4	-10.4	34.0	74
1589.500000	39.5	100.0	V	13.0	48.5	-9.0	34.5	74
2132.500000	43.7	100.0	V	90.0	50.6	-6.9	30.3	74
3424.000000	43.5	100.0	V	122.0	46.3	-2.8	30.5	74
5048.500000	50.8	100.0	V	142.0	51.1	-0.3	23.2	74
6148.000000	49.2	100.0	V	292.0	52.8	3.6	24.8	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1937.500000	30.8	100.0	H	1.0	38.8	-8.0	23.2	54
3062.500000	35.8	100.0	H	232.0	39.5	-3.7	18.2	54
5036.500000	41.1	100.0	V	142.0	41.4	-0.3	12.9	54
5876.500000	38.8	100.0	V	132.0	41.3	2.5	15.2	54
6415.000000	39.3	100.0	H	58.0	44.4	5.1	14.7	54
6881.500000	39.6	100.0	V	0.0	44.6	5.0	14.4	54

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

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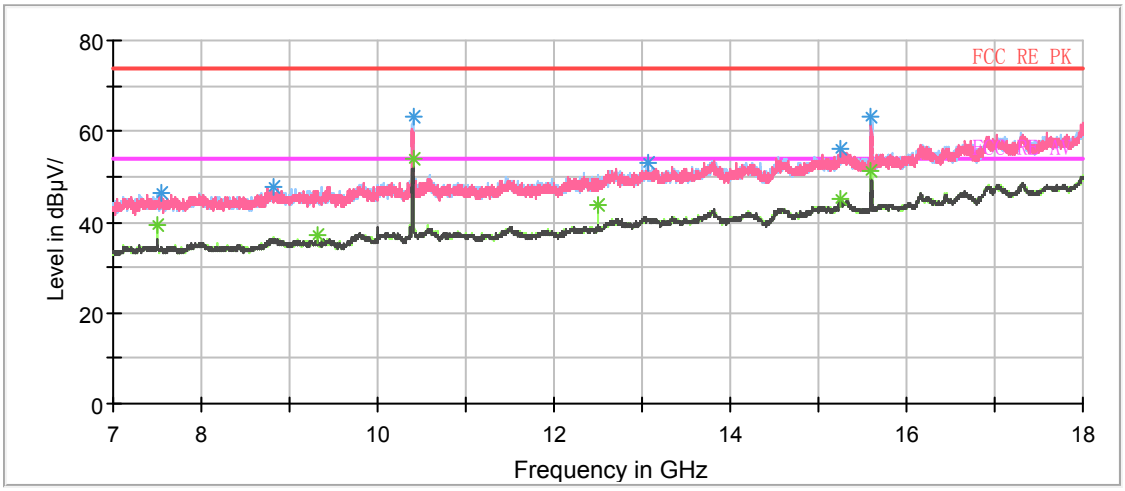
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7537.625000	46.4	100.0	H	0.0	54.2	7.8	27.6	74
8809.500000	47.9	100.0	H	0.0	57.3	9.4	26.1	74
10401.750000	63.0	100.0	H	284.0	75.0	12.0	11.0	74
13072.000000	52.9	100.0	V	177.0	69.1	16.2	21.1	74
15259.625000	56.0	100.0	V	147.0	75.7	19.7	18.0	74
15596.500000	63.3	100.0	H	312.0	83.1	19.8	10.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	39.4	100.0	H	78.0	47.1	7.7	14.6	54
9311.375000	36.9	100.0	H	241.0	47.4	10.5	17.1	54
10399.000000	54.0	100.0	H	284.0	65.9	11.9	0.0	54
12500.000000	43.8	100.0	H	326.0	59.0	15.2	10.2	54
15254.125000	44.9	100.0	V	299.0	64.6	19.7	9.1	54
15602.000000	51.1	100.0	H	93.0	70.9	19.8	2.9	54

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

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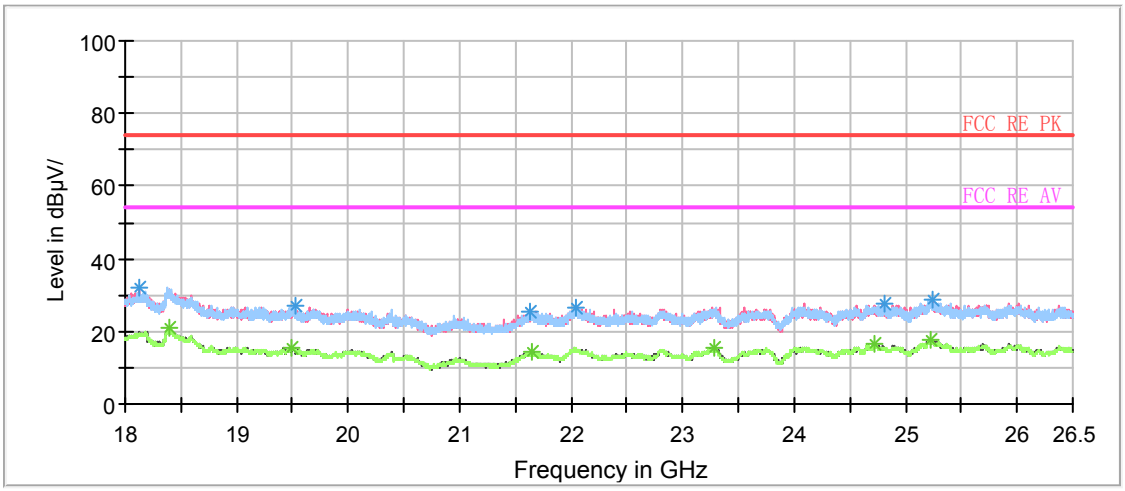
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18388.875000	29.5	H	87.0	34.4	-4.9	44.5	74
19489.625000	26.2	H	0.0	33.8	-7.6	47.8	74
21653.937500	24.1	H	5.0	33.3	-9.2	49.9	74
23290.187500	24.4	H	5.0	31.4	-7.0	49.6	74
24721.375000	25.4	V	347.0	31.7	-6.3	48.6	74
25229.250000	27.3	V	0.0	33.2	-5.9	46.7	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18388.875000	20.9	H	87.0	25.8	-4.9	33.1	54
19489.625000	15.7	H	0.0	23.3	-7.6	38.3	54
21653.937500	14.5	H	5.0	23.7	-9.2	39.5	54
23290.187500	15.7	H	5.0	22.7	-7.0	38.3	54
24721.375000	16.4	V	347.0	22.7	-6.3	37.6	54
25229.250000	18.0	V	0.0	23.9	-5.9	36.0	54

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

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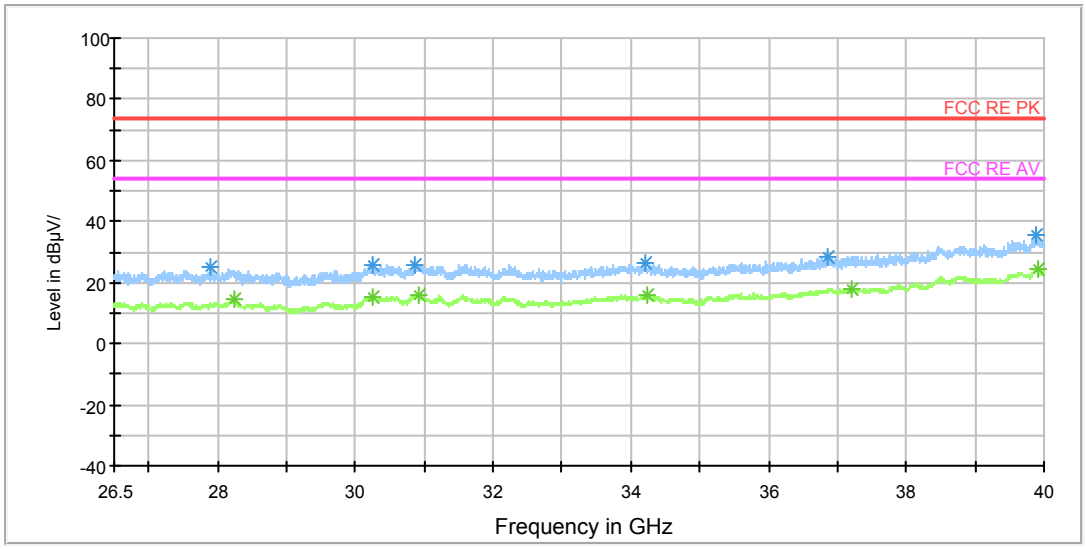
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28244.875000	22.8	100.0	H	0.0	44.5	-21.7	51.2	74
30239.500000	23.9	100.0	V	0.0	45.7	-21.8	50.1	74
30914.500000	24.0	100.0	H	0.0	45.2	-21.2	50.0	74
34249.000000	24.4	100.0	V	0.0	45.7	-21.3	49.6	74
37202.125000	25.1	100.0	V	0.0	46.5	-21.4	48.9	74
39898.750000	32.2	100.0	V	0.0	52.6	-20.4	41.8	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28244.875000	14.3	100.0	H	0.0	36.0	-21.7	39.7	54
30239.500000	15.2	100.0	V	0.0	37.0	-21.8	38.8	54
30914.500000	16.0	100.0	H	0.0	37.2	-21.2	38.0	54
34249.000000	15.8	100.0	V	0.0	37.1	-21.3	38.2	54
37202.125000	18.0	100.0	V	0.0	39.4	-21.4	36.0	54
39898.750000	24.6	100.0	V	0.0	45.0	-20.4	29.4	54

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

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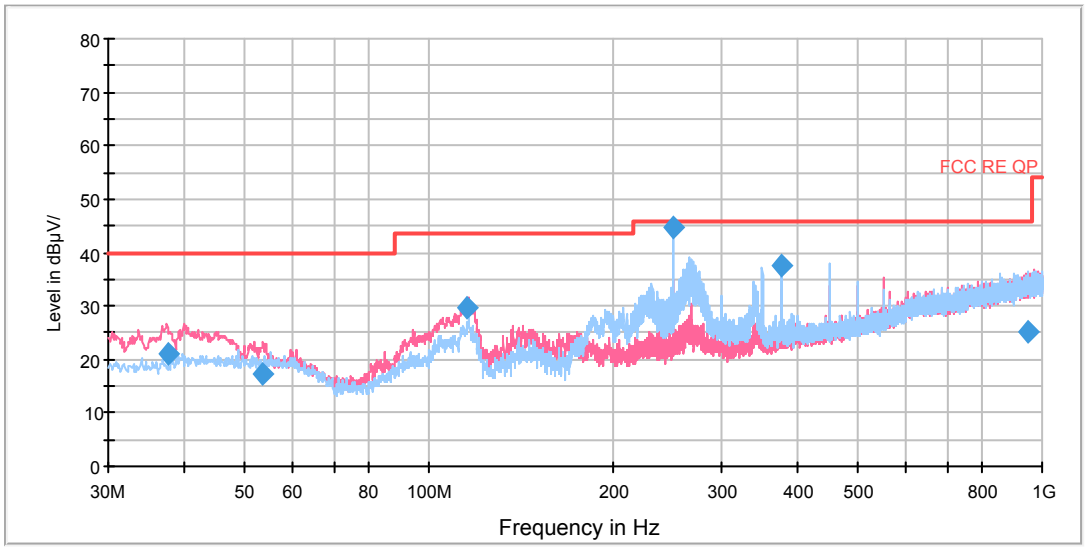
802.11a CH48

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.476250	21.2	100.0	V	0.0	33.7	12.5	18.8	40.0
53.650000	17.2	100.0	V	222.0	30.0	12.8	22.8	40.0
115.725000	29.7	100.0	V	344.0	41.0	11.3	13.8	43.5
249.988750	44.8	125.0	H	199.0	58.9	14.1	1.2	46.0
374.996250	37.4	100.0	H	207.0	54.8	17.4	8.6	46.0
948.752500	25.2	100.0	H	52.0	51.2	26.0	20.8	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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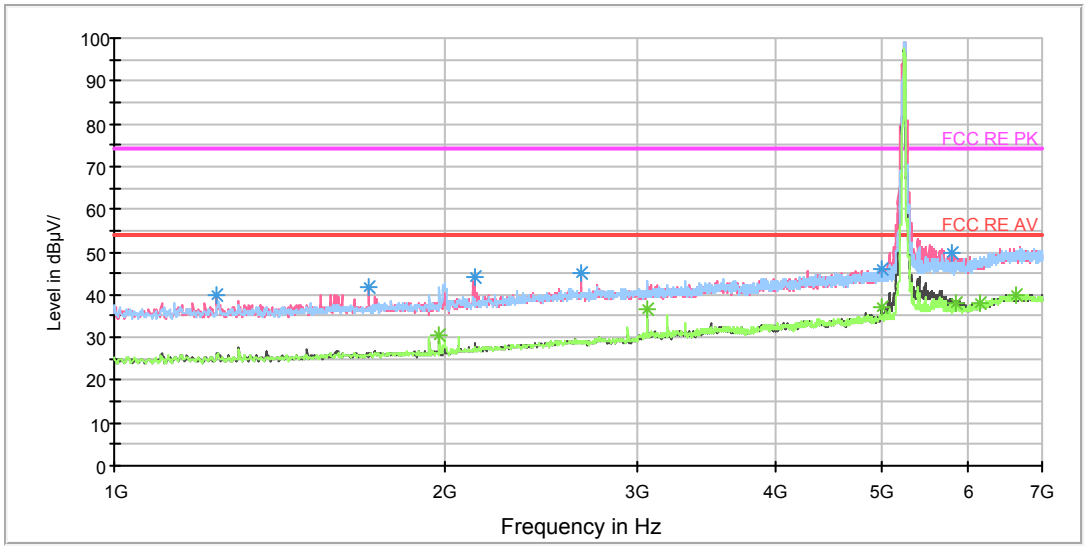
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1238.500000	39.9	100.0	V	80.0	50.4	-10.5	34.1	74
1706.500000	41.8	100.0	V	358.0	50.5	-8.7	32.2	74
2132.500000	44.3	100.0	V	90.0	51.2	-6.9	29.7	74
2659.000000	44.9	100.0	V	80.0	49.5	-4.6	29.1	74
5003.500000	46.1	100.0	V	143.0	46.4	-0.3	27.9	74
5794.000000	49.8	100.0	H	0.0	52.2	2.4	24.2	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1979.500000	30.4	100.0	H	0.0	38.3	-7.9	23.6	54
3062.500000	36.6	100.0	H	191.0	40.3	-3.7	17.4	54
5003.500000	37.0	100.0	V	143.0	37.3	-0.3	17.0	54
5842.000000	38.1	100.0	V	245.0	40.6	2.5	15.9	54
6148.000000	38.1	100.0	H	78.0	41.7	3.6	15.9	54
6616.000000	39.8	100.0	V	352.0	44.9	5.1	14.2	54

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

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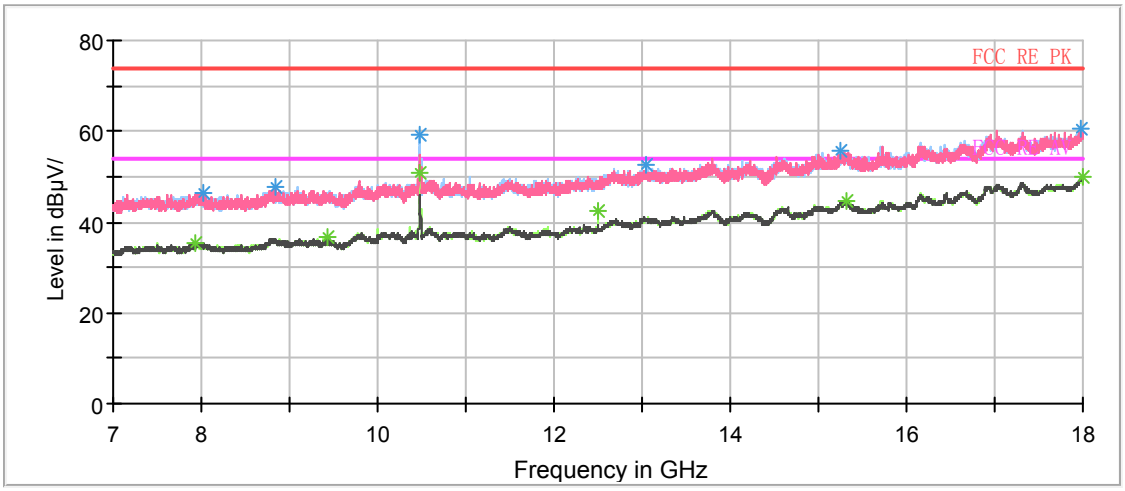
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
8024.375000	46.4	100.0	H	331.0	55.0	8.6	27.6	74
8846.625000	47.6	100.0	V	2.0	57.4	9.8	26.4	74
10481.500000	59.3	100.0	H	287.0	71.9	12.6	14.7	74
13052.750000	52.4	100.0	H	257.0	68.6	16.2	21.6	74
15247.250000	55.5	100.0	H	110.0	75.2	19.7	18.5	74
17983.500000	60.3	100.0	H	184.0	85.5	25.2	13.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7935.000000	35.6	100.0	V	16.0	44.5	8.9	18.4	54
9436.500000	36.7	100.0	H	346.0	47.6	10.9	17.3	54
10480.125000	50.7	100.0	H	287.0	63.2	12.5	3.3	54
12500.000000	42.6	100.0	H	125.0	57.8	15.2	11.4	54
15324.250000	44.6	100.0	V	16.0	64.0	19.4	9.4	54
17989.000000	49.8	100.0	V	161.0	75.1	25.3	4.2	54

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

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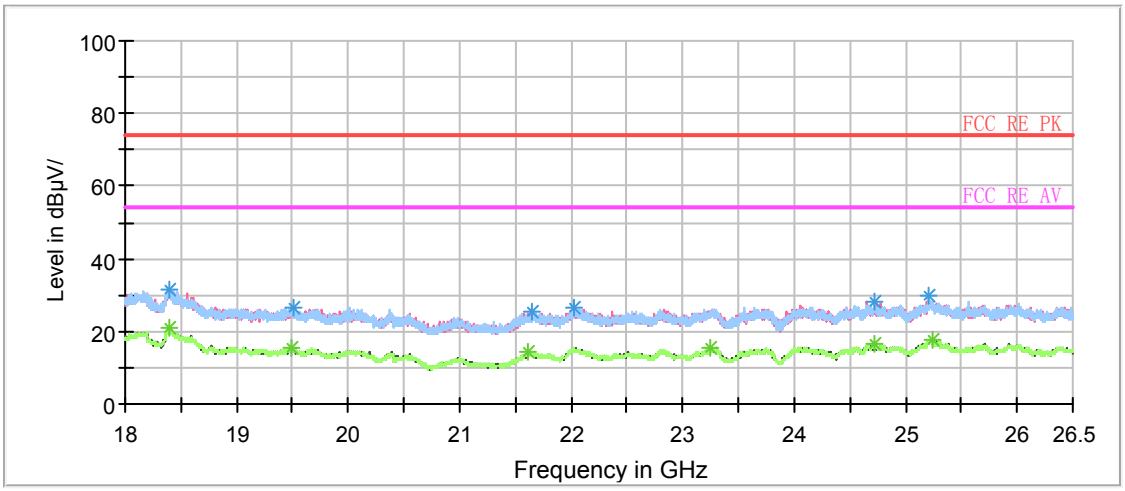
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18393.125000	29.7	H	22.0	34.6	-4.9	44.3	74
19500.250000	25.5	H	132.0	33.0	-7.5	48.5	74
21614.625000	22.8	H	46.0	31.7	-8.9	51.2	74
23244.500000	24.7	H	46.0	32.4	-7.7	49.3	74
24726.687500	28.1	H	234.0	34.3	-6.2	45.9	74
25235.625000	27.5	V	299.0	33.5	-6.0	46.5	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18393.125000	20.8	H	22.0	25.7	-4.9	33.2	54
19500.250000	15.6	H	132.0	23.1	-7.5	38.4	54
21614.625000	14.5	H	46.0	23.4	-8.9	39.5	54
23244.500000	15.4	H	46.0	23.1	-7.7	38.6	54
24726.687500	16.3	H	234.0	22.5	-6.2	37.7	54
25235.625000	17.8	V	299.0	23.8	-6.0	36.2	54

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

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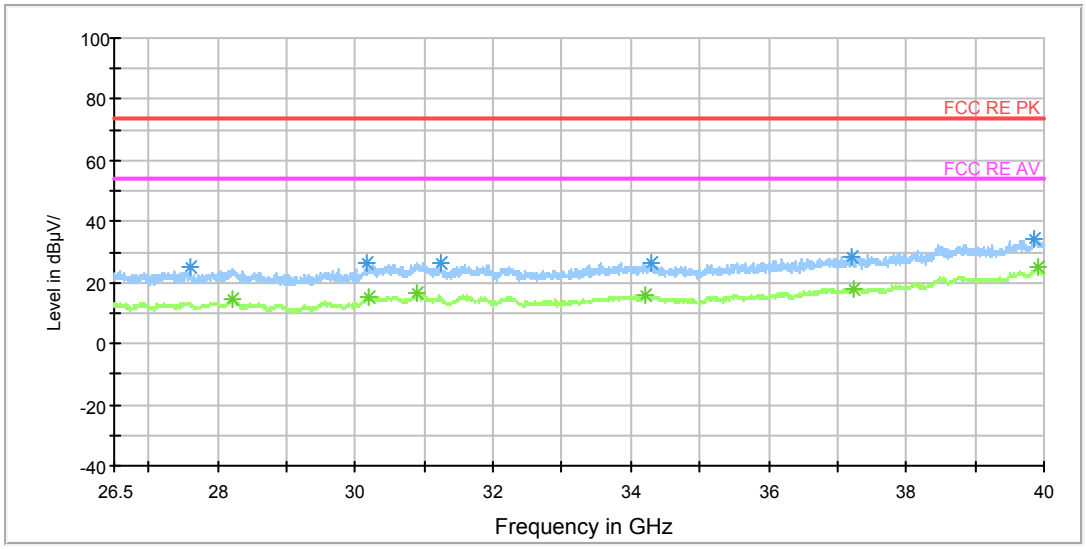
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28211.125000	23.9	100.0	H	0.0	45.6	-21.7	50.1	74
30209.125000	23.4	100.0	H	0.0	45.3	-21.9	50.6	74
30901.000000	25.9	100.0	H	0.0	47.2	-21.3	48.1	74
34198.375000	23.9	100.0	V	0.0	45.2	-21.3	50.1	74
37235.875000	27.0	100.0	H	0.0	48.4	-21.4	47.0	74
39898.750000	33.5	100.0	V	0.0	53.9	-20.4	40.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28211.125000	14.6	100.0	H	0.0	36.3	-21.7	39.4	54
30209.125000	15.5	100.0	H	0.0	37.4	-21.9	38.5	54
30901.000000	16.5	100.0	H	0.0	37.8	-21.3	37.5	54
34198.375000	16.2	100.0	V	0.0	37.5	-21.3	37.8	54
37235.875000	18.0	100.0	H	0.0	39.4	-21.4	36.0	54
39898.750000	24.9	100.0	V	0.0	45.3	-20.4	29.1	54

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

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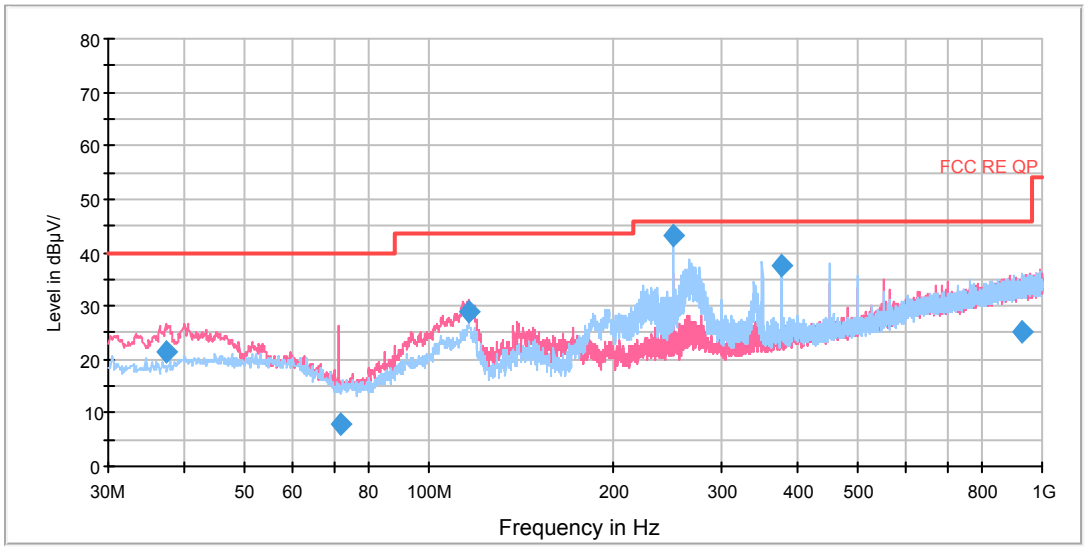
802.11n HT20 CH36

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.275000	21.5	100.0	V	246.0	34.0	12.5	18.5	40.0
71.825000	7.9	100.0	V	70.0	16.5	8.6	32.1	40.0
116.292500	28.9	100.0	V	0.0	40.1	11.2	14.6	43.5
249.988750	43.0	125.0	H	17.0	57.1	14.1	3.0	46.0
374.996250	37.5	100.0	H	207.0	54.9	17.4	8.5	46.0
929.678750	25.1	100.0	H	286.0	51.0	25.9	20.9	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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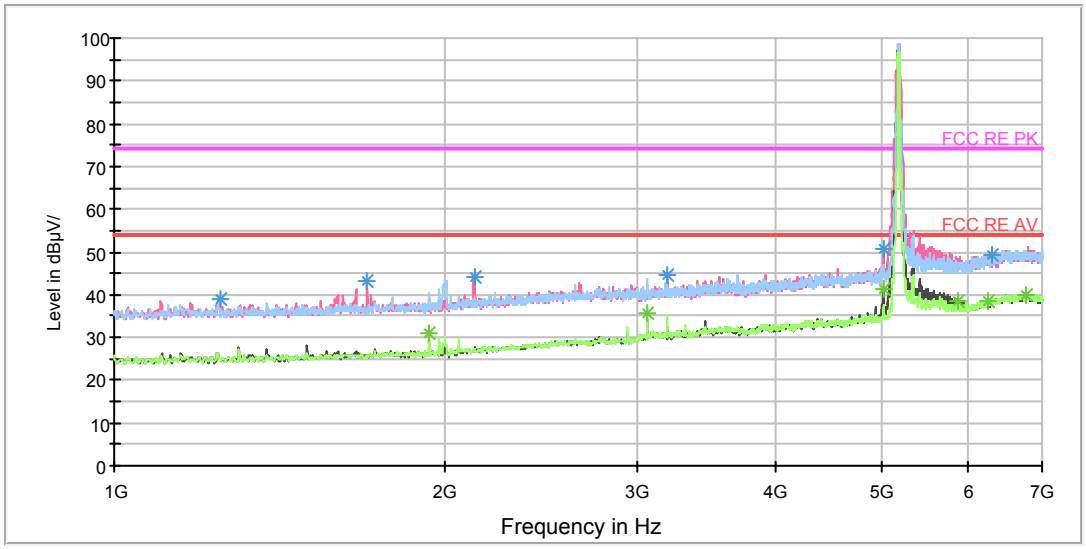
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1247.500000	39.0	100.0	V	117.0	49.4	-10.4	35.0	74
1700.500000	43.2	100.0	V	356.0	51.9	-8.7	30.8	74
2132.500000	44.3	100.0	V	96.0	51.2	-6.9	29.7	74
3187.000000	44.6	100.0	V	75.0	48.0	-3.4	29.4	74
5023.000000	50.9	100.0	V	138.0	51.2	-0.3	23.1	74
6292.000000	49.4	100.0	V	347.0	53.8	4.4	24.6	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1937.500000	31.2	100.0	H	0.0	39.2	-8.0	22.8	54
3062.500000	35.7	100.0	H	26.0	39.4	-3.7	18.3	54
5023.000000	41.5	100.0	V	138.0	41.8	-0.3	12.5	54
5876.500000	38.3	100.0	V	34.0	40.8	2.5	15.7	54
6242.500000	38.3	100.0	H	64.0	42.4	4.1	15.7	54
6757.000000	39.7	100.0	V	326.0	44.7	5.0	14.3	54

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

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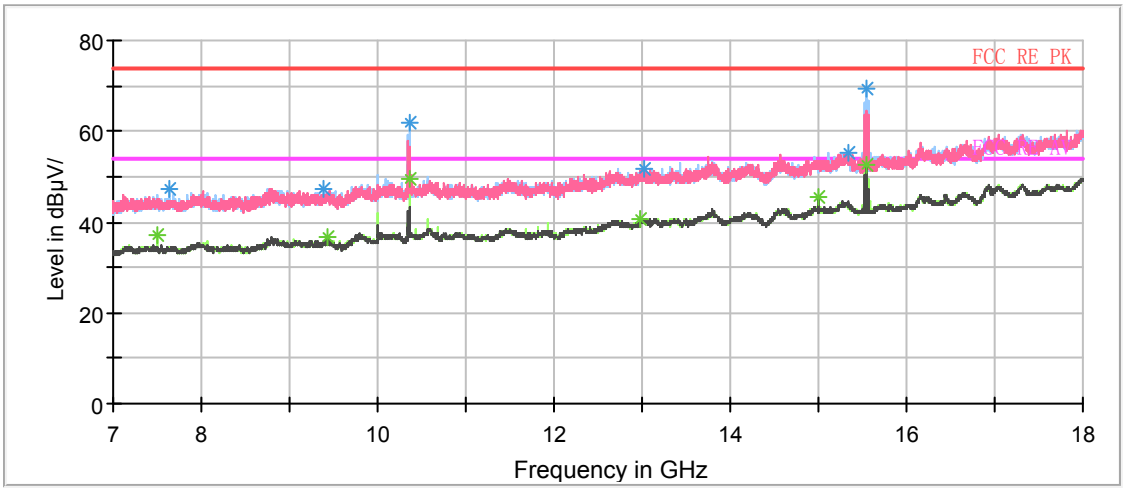
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7631.125000	47.2	102.0	H	165.0	55.4	8.2	26.8	74
9396.625000	47.5	102.0	H	0.0	58.5	11.0	26.5	74
10360.500000	61.7	102.0	H	150.0	73.3	11.6	12.3	74
13026.625000	51.8	102.0	H	240.0	68.0	16.2	22.2	74
15336.625000	55.3	102.0	V	102.0	74.6	19.3	18.7	74
15549.750000	69.2	102.0	H	136.0	88.9	19.7	4.8	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	37.1	102.0	H	90.0	44.8	7.7	16.9	54
9436.500000	36.5	102.0	V	116.0	47.4	10.9	17.5	54
10360.500000	49.3	102.0	H	150.0	60.9	11.6	4.7	54
12984.000000	40.8	102.0	H	150.0	57.0	16.2	13.2	54
14999.750000	45.6	102.0	H	348.0	65.1	19.5	8.4	54
15549.750000	52.5	102.0	H	136.0	72.2	19.7	1.5	54

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

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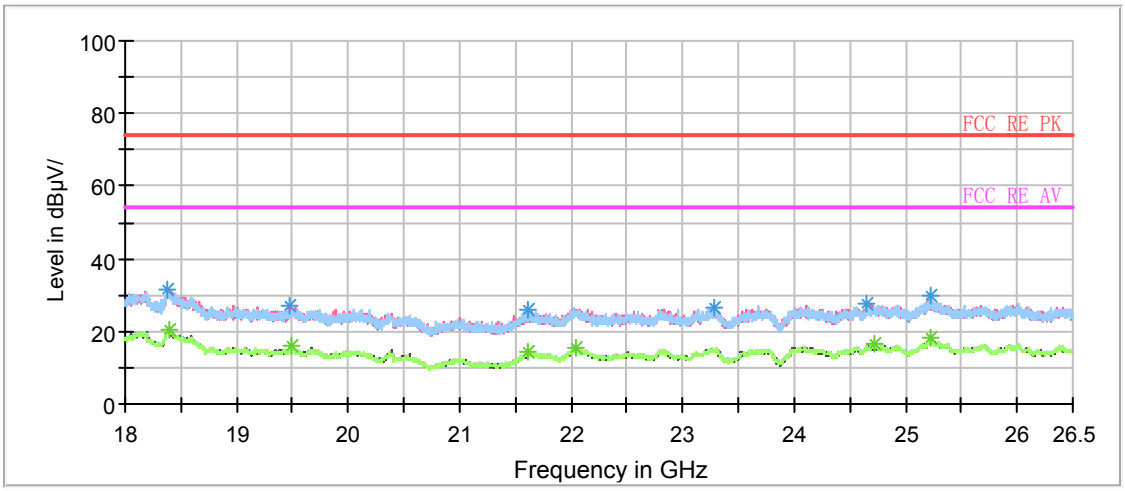
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18383.562500	31.4	V	319.0	36.2	-4.8	42.6	74
19481.125000	26.9	V	303.0	34.7	-7.8	47.1	74
21619.937500	25.9	V	0.0	34.9	-9.0	48.1	74
23282.750000	26.7	H	24.0	33.8	-7.1	47.3	74
24641.687500	27.5	V	354.0	34.7	-7.2	46.5	74
25232.437500	29.8	H	58.0	35.7	-5.9	44.2	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18391.000000	20.6	H	117.0	25.5	-4.9	33.4	54
19484.312500	15.8	V	0.0	23.5	-7.7	38.2	54
21619.937500	14.2	H	0.0	23.2	-9.0	39.8	54
22048.125000	15.5	H	24.0	23.6	-8.1	38.5	54
24712.875000	16.5	H	12.0	23.0	-6.5	37.5	54
25222.875000	18.0	V	252.0	23.9	-5.9	36.0	54

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

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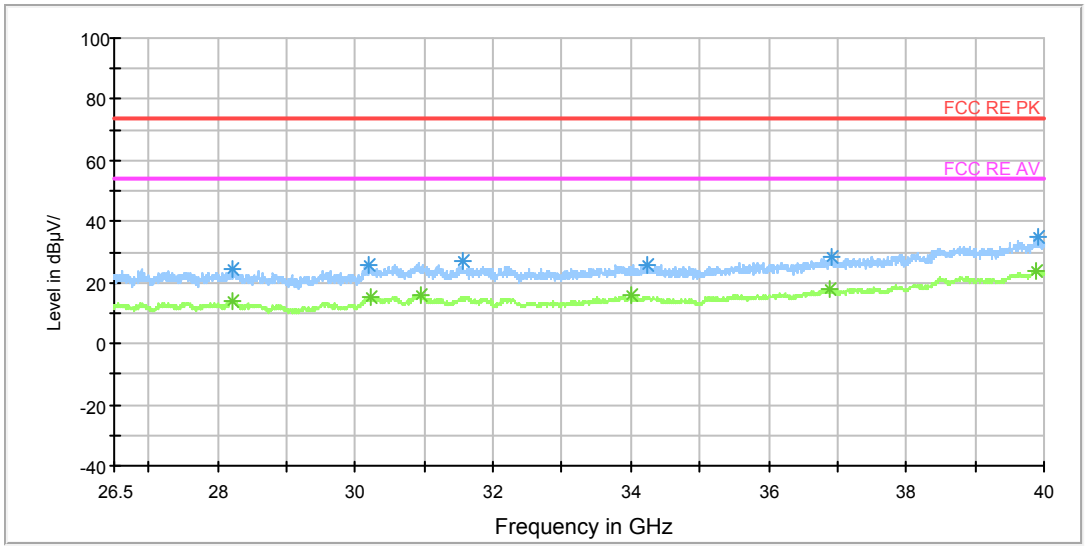
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28228.000000	23.5	100.0	V	0.0	45.2	-21.7	50.5	74
30222.625000	25.1	100.0	H	0.0	47.0	-21.9	48.9	74
30941.500000	24.6	100.0	V	0.0	45.8	-21.2	49.4	74
33999.250000	23.8	100.0	H	0.0	45.3	-21.5	50.2	74
36884.875000	25.1	100.0	V	0.0	46.5	-21.4	48.9	74
39888.625000	32.0	100.0	H	0.0	52.4	-20.4	42.0	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28228.000000	13.9	100.0	V	0.0	35.6	-21.7	40.1	54
30222.625000	15.0	100.0	H	0.0	36.9	-21.9	39.0	54
30941.500000	16.1	100.0	V	0.0	37.3	-21.2	37.9	54
33999.250000	15.6	100.0	H	0.0	37.1	-21.5	38.4	54
36884.875000	18.1	100.0	V	0.0	39.5	-21.4	35.9	54
39888.625000	24.1	100.0	H	0.0	44.5	-20.4	29.9	54

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

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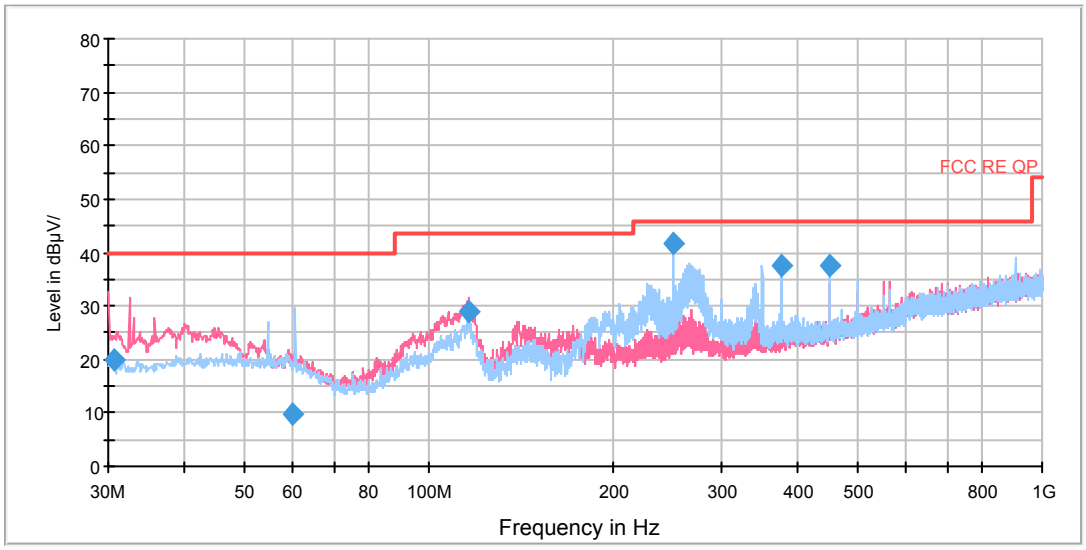
802.11n HT20 CH40

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.600000	20.1	100.0	V	296.0	32.0	11.9	19.9	40.0
59.955000	9.7	125.0	H	244.0	22.2	12.5	30.3	40.0
116.328750	29.1	100.0	V	311.0	40.3	11.2	14.4	43.5
249.987500	41.7	125.0	H	203.0	55.8	14.1	4.3	46.0
374.996250	37.6	100.0	H	207.0	55.0	17.4	8.4	46.0
450.010000	37.6	100.0	H	30.0	56.6	19.0	8.4	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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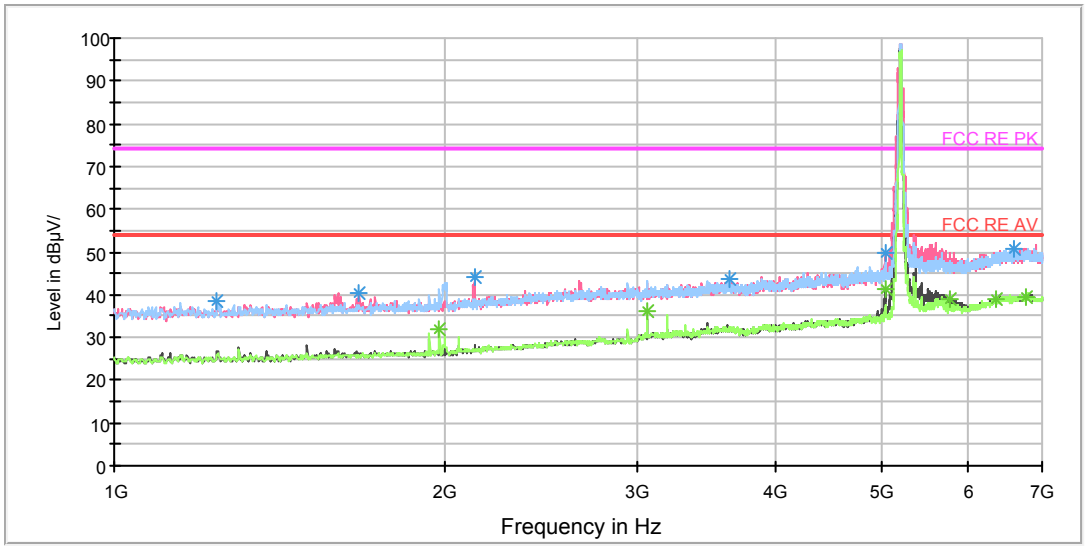
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1241.500000	38.5	100.0	V	292.0	48.9	-10.4	35.5	74
1672.000000	40.2	100.0	V	55.0	49.0	-8.8	33.8	74
2131.000000	44.1	100.0	V	322.0	51.0	-6.9	29.9	74
3637.000000	43.7	100.0	H	129.0	46.3	-2.6	30.3	74
5042.500000	50.0	100.0	V	138.0	50.3	-0.3	24.0	74
6611.500000	50.6	100.0	H	2.0	55.7	5.1	23.4	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1979.500000	31.9	100.0	H	181.0	39.8	-7.9	22.1	54
3062.500000	36.0	100.0	H	24.0	39.7	-3.7	18.0	54
5044.000000	41.1	100.0	V	138.0	41.4	-0.3	12.9	54
5761.000000	38.8	100.0	V	128.0	41.2	2.4	15.2	54
6358.000000	39.0	100.0	V	346.0	43.8	4.8	15.0	54
6773.500000	39.5	100.0	H	326.0	44.5	5.0	14.5	54

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

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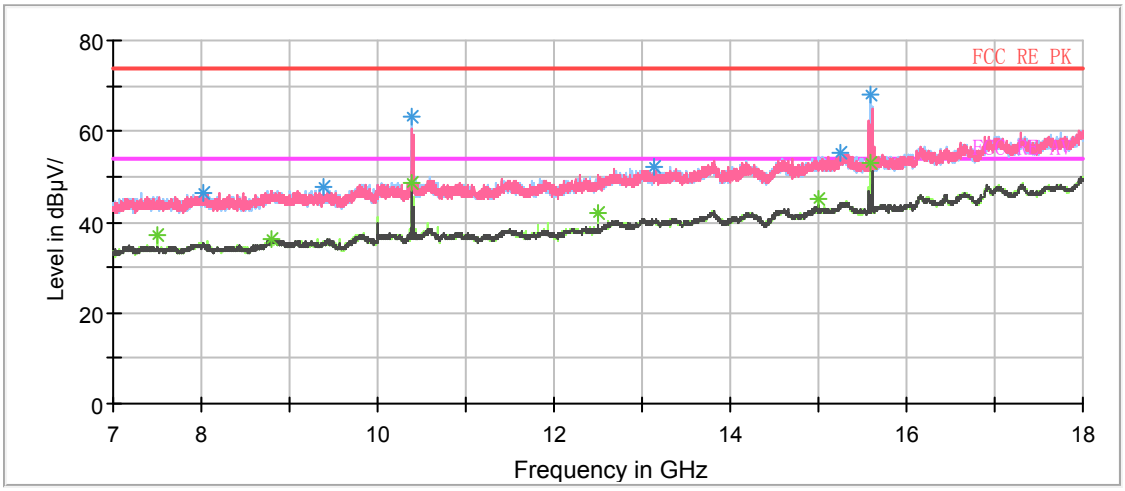
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
8012.000000	46.6	102.0	H	0.0	55.2	8.6	27.4	74
9377.375000	47.8	102.0	H	163.0	58.7	10.9	26.2	74
10394.875000	63.2	102.0	H	149.0	75.1	11.9	10.8	74
13135.250000	52.4	102.0	V	12.0	68.1	15.7	21.6	74
15248.625000	55.0	102.0	H	0.0	74.7	19.7	19.0	74
15593.750000	68.3	102.0	H	149.0	88.1	19.8	5.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	37.2	102.0	H	309.0	44.9	7.7	16.8	54
8788.875000	36.4	102.0	H	0.0	45.6	9.2	17.6	54
10394.875000	48.5	102.0	H	149.0	60.4	11.9	5.5	54
12500.000000	42.2	102.0	H	337.0	57.4	15.2	11.8	54
14999.750000	44.9	102.0	H	337.0	64.4	19.5	9.1	54
15593.750000	53.2	102.0	H	149.0	73.0	19.8	0.8	54

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

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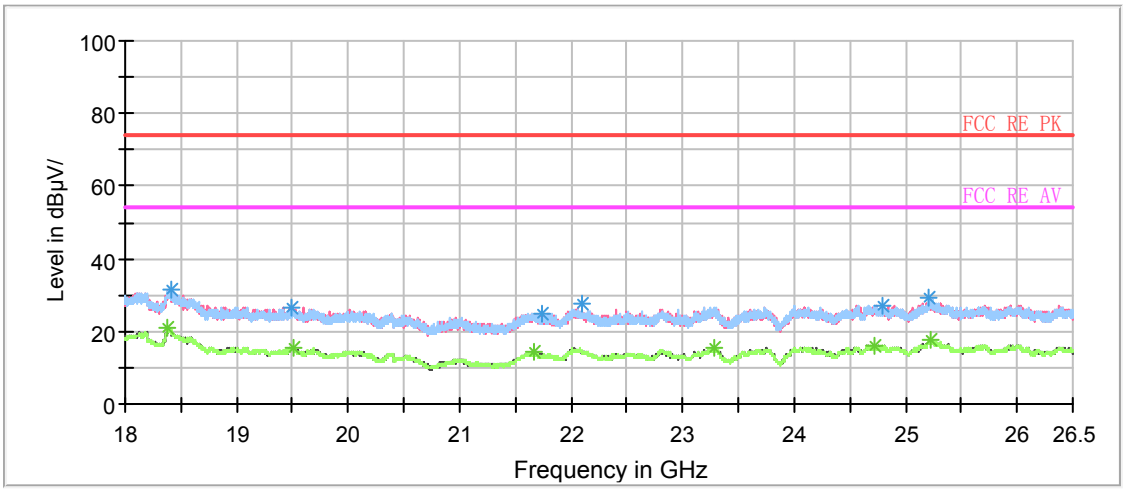
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18420.750000	31.7	H	133.0	36.9	-5.2	42.3	74
19496.000000	26.6	H	41.0	34.2	-7.6	47.4	74
21729.375000	25.0	V	287.0	34.5	-9.5	49.0	74
22095.937500	27.6	H	107.0	36.0	-8.4	46.4	74
24792.562500	27.3	V	202.0	34.0	-6.7	46.7	74
25214.375000	29.0	H	0.0	35.1	-6.1	45.0	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18385.687500	20.9	V	149.0	25.7	-4.8	33.1	54
19503.437500	15.5	V	295.0	23.0	-7.5	38.5	54
21658.187500	14.3	V	176.0	23.5	-9.2	39.7	54
23289.125000	15.4	H	125.0	22.5	-7.1	38.6	54
24723.500000	16.3	V	262.0	22.5	-6.2	37.7	54
25226.062500	17.9	V	131.0	23.8	-5.9	36.1	54

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

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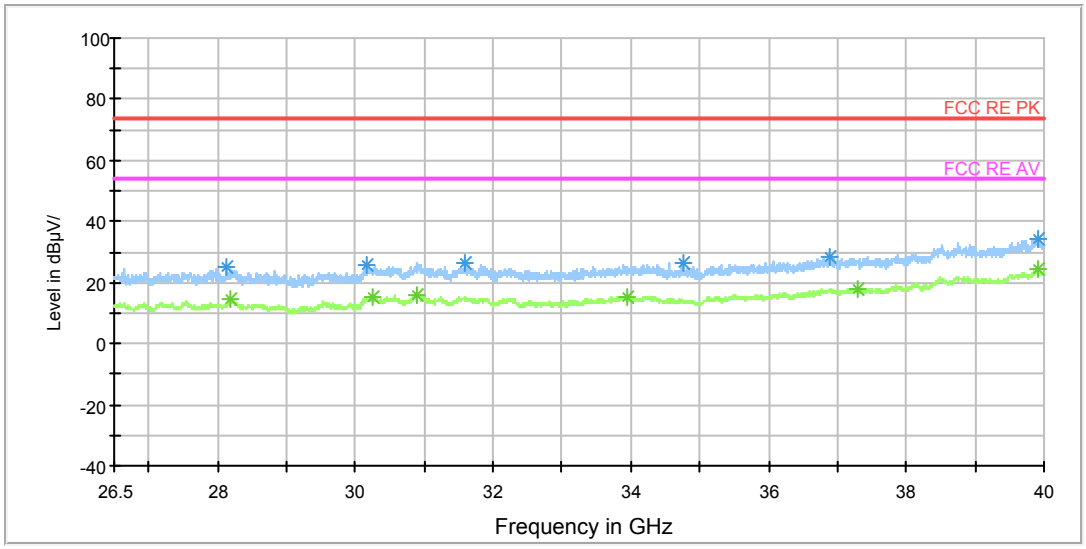
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28174.000000	22.3	100.0	H	0.0	43.9	-21.6	51.7	74
30253.000000	22.7	100.0	H	0.0	44.5	-21.8	51.3	74
30890.875000	26.3	100.0	V	0.0	47.6	-21.3	47.7	74
33938.500000	25.1	100.0	H	0.0	46.6	-21.5	48.9	74
37300.000000	26.9	100.0	V	0.0	48.3	-21.4	47.1	74
39898.750000	32.6	100.0	V	0.0	53.0	-20.4	41.4	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28174.000000	14.2	100.0	H	0.0	35.8	-21.6	39.8	54
30253.000000	15.0	100.0	H	0.0	36.8	-21.8	39.0	54
30890.875000	15.9	100.0	V	0.0	37.2	-21.3	38.1	54
33938.500000	15.4	100.0	H	0.0	36.9	-21.5	38.6	54
37300.000000	17.9	100.0	V	0.0	39.3	-21.4	36.1	54
39898.750000	24.6	100.0	V	0.0	45.0	-20.4	29.4	54

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

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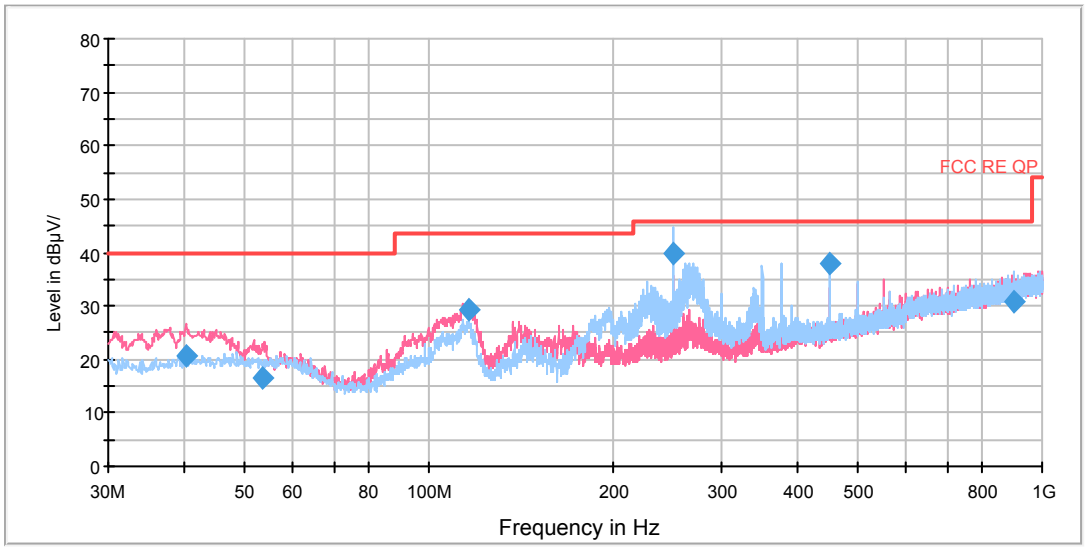
802.11n HT20 CH48

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.225000	20.5	100.0	V	0.0	33.7	13.2	19.5	40.0
53.487500	16.4	100.0	V	22.0	29.2	12.8	23.6	40.0
116.250000	29.3	100.0	V	340.0	40.5	11.2	14.2	43.5
250.028750	39.8	125.0	H	212.0	53.9	14.1	6.2	46.0
450.010000	37.7	100.0	H	32.0	56.7	19.0	8.3	46.0
900.008750	30.9	100.0	H	0.0	56.5	25.6	15.1	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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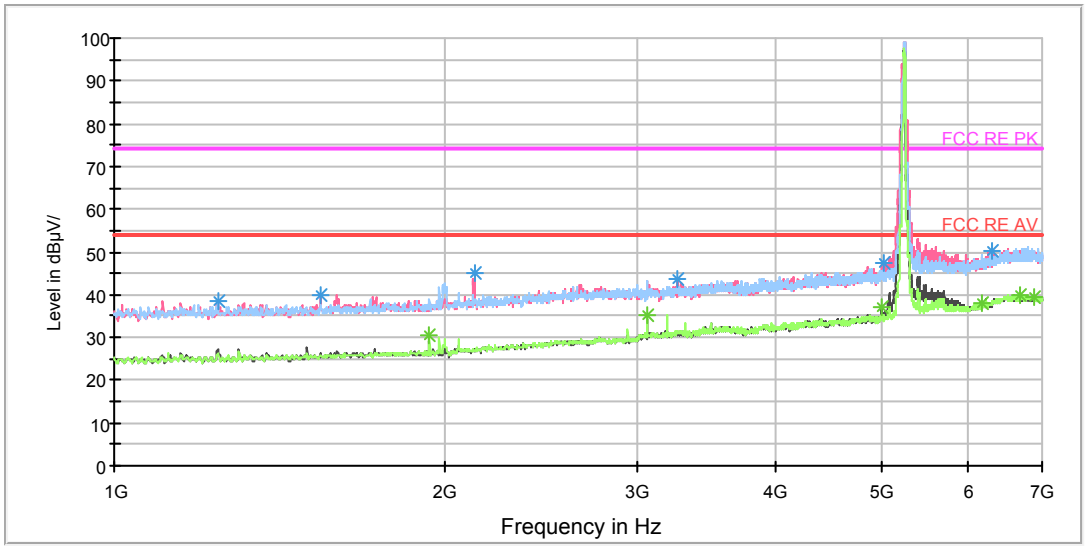
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1243.000000	38.7	100.0	H	1.0	49.1	-10.4	35.3	74
1541.500000	40.0	100.0	V	122.0	49.3	-9.3	34.0	74
2131.000000	45.1	100.0	V	91.0	52.0	-6.9	28.9	74
3263.500000	43.7	100.0	V	0.0	46.9	-3.2	30.3	74
5024.500000	47.4	100.0	V	142.0	47.7	-0.3	26.6	74
6304.000000	50.0	100.0	V	0.0	54.5	4.5	24.0	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1937.500000	30.3	100.0	H	0.0	38.3	-8.0	23.7	54
3062.500000	35.4	100.0	H	325.0	39.1	-3.7	18.6	54
5003.500000	37.3	100.0	V	194.0	37.6	-0.3	16.7	54
6164.500000	38.2	100.0	H	272.0	41.8	3.6	15.8	54
6697.000000	39.8	100.0	H	221.0	44.8	5.0	14.2	54
6878.500000	39.7	100.0	H	78.0	44.7	5.0	14.3	54

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

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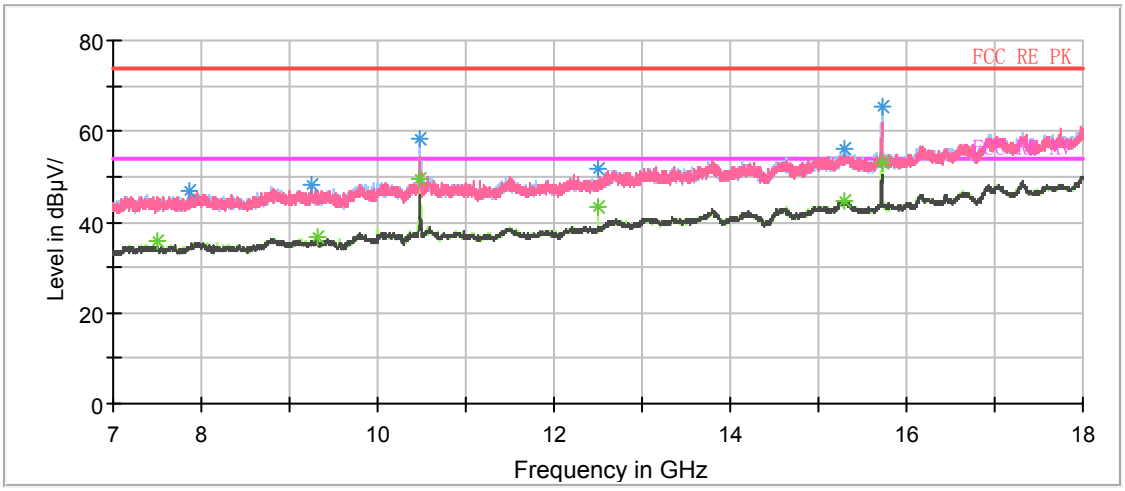
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7852.500000	46.7	102.0	V	47.0	55.4	8.7	27.3	74
9250.875000	48.0	102.0	V	143.0	57.9	9.9	26.0	74
10480.125000	58.5	102.0	H	286.0	71.0	12.5	15.5	74
12500.000000	51.8	102.0	H	121.0	67.0	15.2	22.2	74
15285.750000	55.9	102.0	H	257.0	75.5	19.6	18.1	74
15721.625000	65.4	102.0	H	330.0	85.7	20.3	8.6	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	35.6	102.0	H	137.0	43.3	7.7	18.4	54
9311.375000	36.8	102.0	H	213.0	47.3	10.5	17.2	54
10480.125000	49.7	102.0	H	286.0	62.2	12.5	4.3	54
12500.000000	43.2	102.0	H	121.0	58.4	15.2	10.8	54
15298.125000	44.7	102.0	H	359.0	64.3	19.6	9.3	54
15723.000000	53.1	102.0	H	272.0	73.4	20.3	0.9	54

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

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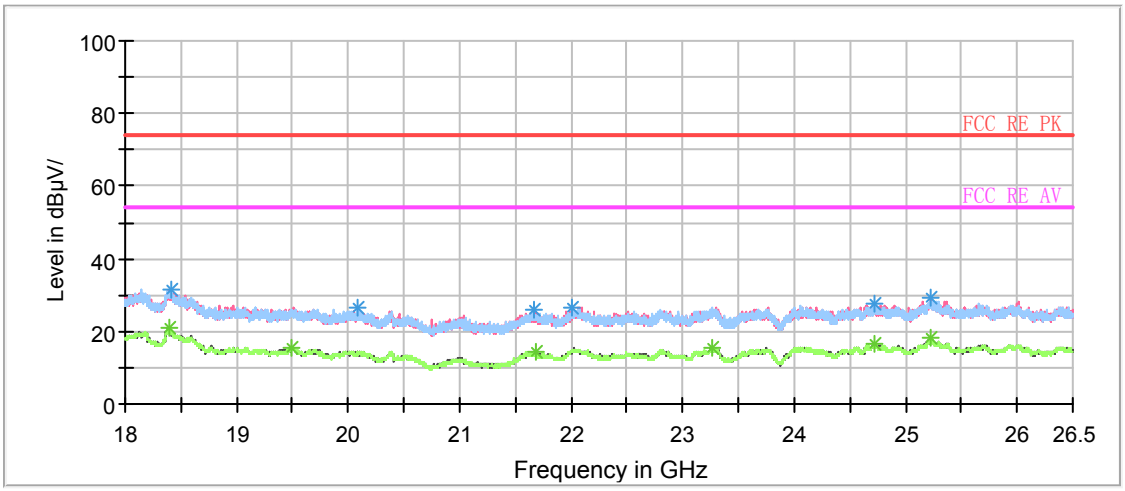
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18420.750000	31.7	H	73.0	36.9	-5.2	42.3	74
20091.000000	26.3	H	312.0	34.6	-8.3	47.7	74
21658.187500	25.8	V	236.0	35.0	-9.2	48.2	74
22016.250000	26.5	H	48.0	34.6	-8.1	47.5	74
24717.125000	27.5	H	199.0	33.9	-6.4	46.5	74
25219.687500	29.0	V	219.0	35.0	-6.0	45.0	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18386.750000	20.7	V	125.0	25.5	-4.8	33.3	54
19498.125000	15.5	H	233.0	23.0	-7.5	38.5	54
21690.062500	14.4	V	168.0	23.7	-9.3	39.6	54
23265.750000	15.3	H	0.0	22.6	-7.3	38.7	54
24723.500000	16.5	V	0.0	22.7	-6.2	37.5	54
25226.062500	18.0	V	294.0	23.9	-5.9	36.0	54

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

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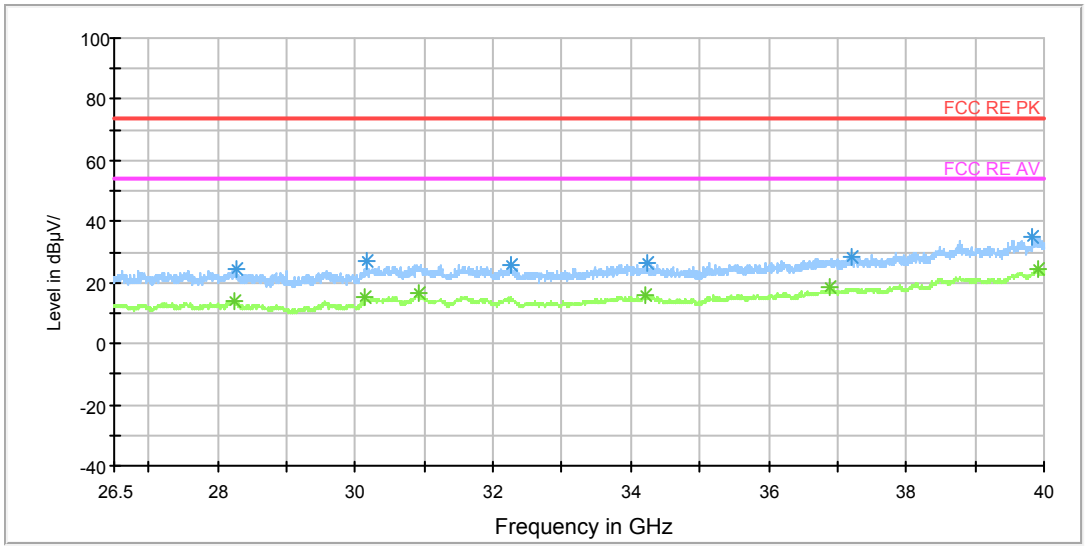
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28231.375000	22.5	100.0	V	0.0	44.2	-21.7	51.5	74
30148.375000	22.6	100.0	H	0.0	44.6	-22.0	51.4	74
30931.375000	24.8	100.0	V	0.0	46.0	-21.2	49.2	74
34211.875000	22.7	100.0	H	0.0	44.0	-21.3	51.3	74
36888.250000	26.7	100.0	H	0.0	48.1	-21.4	47.3	74
39902.125000	34.3	100.0	H	0.0	54.7	-20.4	39.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28231.375000	14.0	100.0	V	0.0	35.7	-21.7	40.0	54
30148.375000	15.0	100.0	H	0.0	37.0	-22.0	39.0	54
30931.375000	16.3	100.0	V	0.0	37.5	-21.2	37.7	54
34211.875000	15.6	100.0	H	0.0	36.9	-21.3	38.4	54
36888.250000	18.4	100.0	H	0.0	39.8	-21.4	35.6	54
39902.125000	24.7	100.0	H	0.0	45.1	-20.4	29.3	54

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

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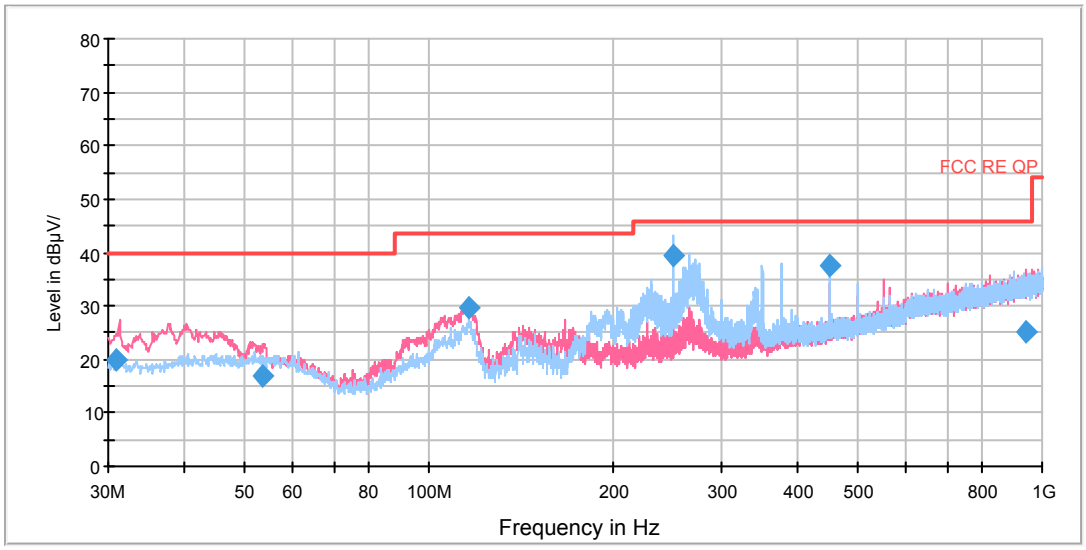
802.11n HT40 CH38

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.853750	19.9	100.0	V	353.0	31.8	11.9	20.1	40.0
53.647500	16.8	100.0	V	203.0	29.6	12.8	23.2	40.0
116.290000	29.6	100.0	V	322.0	40.8	11.2	13.9	43.5
250.027500	39.6	125.0	H	22.0	53.7	14.1	6.4	46.0
450.010000	37.7	100.0	H	31.0	56.7	19.0	8.3	46.0
943.336250	25.2	100.0	V	292.0	51.2	26.0	20.8	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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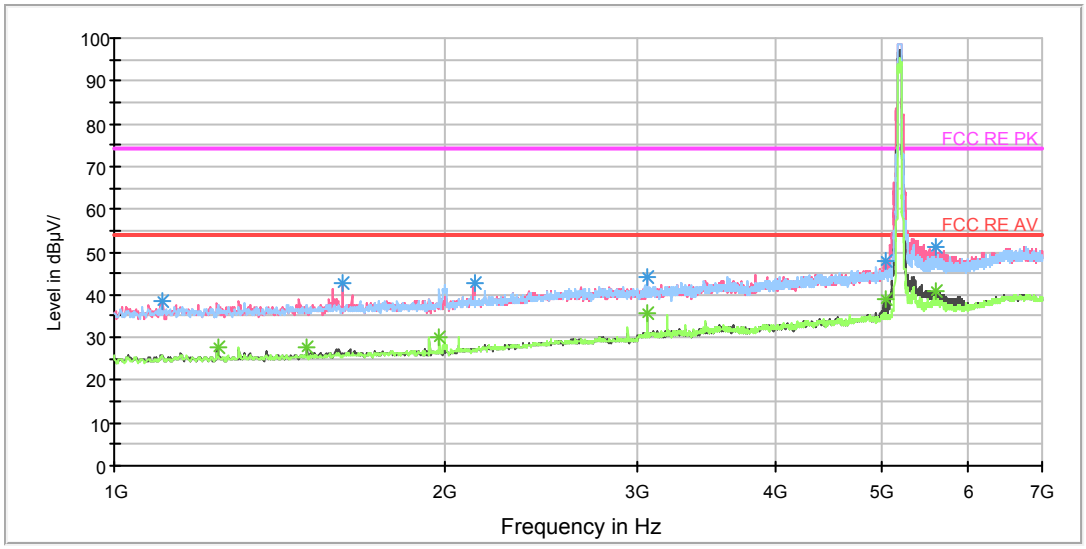
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1108.000000	38.6	100.0	V	86.0	49.6	-11.0	35.4	74
1616.500000	42.9	100.0	V	128.0	51.8	-8.9	31.1	74
2129.500000	42.6	100.0	V	235.0	49.5	-6.9	31.4	74
3062.500000	44.2	100.0	H	24.0	47.9	-3.7	29.8	74
5045.500000	47.9	100.0	V	139.0	48.2	-0.3	26.1	74
5603.500000	51.1	100.0	V	139.0	53.1	2.0	22.9	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1243.000000	27.5	100.0	V	86.0	37.9	-10.4	26.5	54
1499.500000	27.8	100.0	V	348.0	37.3	-9.5	26.2	54
1979.500000	30.0	100.0	H	0.0	37.9	-7.9	24.0	54
3062.500000	35.6	100.0	H	24.0	39.3	-3.7	18.4	54
5047.000000	38.9	100.0	V	139.0	39.2	-0.3	15.1	54
5603.500000	40.8	100.0	V	139.0	42.8	2.0	13.2	54

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

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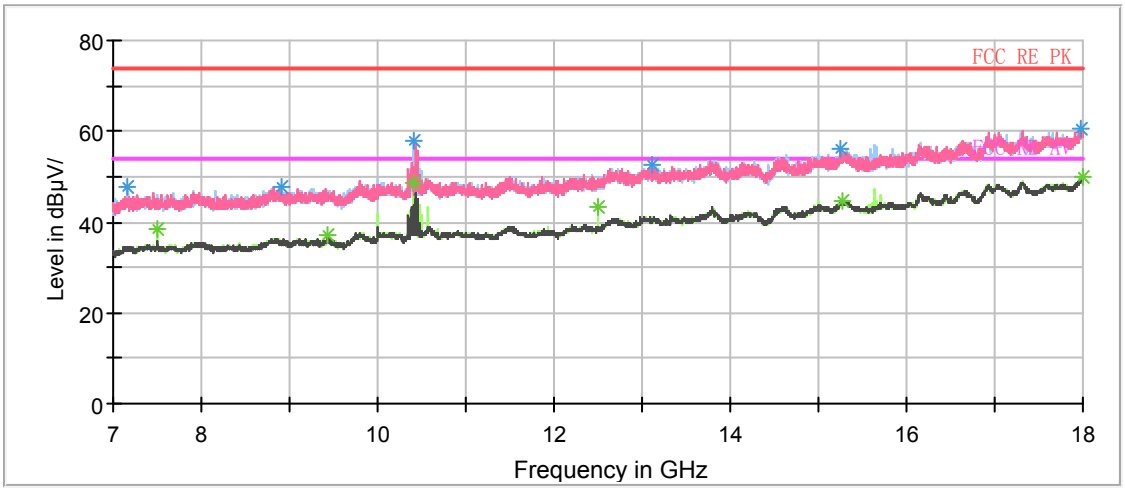
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7169.125000	47.6	102.0	H	0.0	56.1	8.5	26.4	74
8911.250000	47.9	102.0	H	296.0	58.4	10.5	26.1	74
10412.750000	58.0	102.0	H	240.0	70.0	12.0	16.0	74
13122.875000	52.7	102.0	H	355.0	68.6	15.9	21.3	74
15245.875000	56.3	102.0	V	68.0	76.0	19.7	17.7	74
17969.750000	60.7	102.0	H	0.0	85.7	25.0	13.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	38.4	102.0	H	254.0	46.1	7.7	15.6	54
9436.500000	37.1	102.0	H	140.0	48.0	10.9	16.9	54
10411.375000	48.6	102.0	H	240.0	60.6	12.0	5.4	54
12500.000000	43.4	102.0	H	155.0	58.6	15.2	10.6	54
15267.875000	44.8	102.0	H	355.0	64.5	19.7	9.2	54
17993.125000	50.1	102.0	V	0.0	75.4	25.3	3.9	54

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

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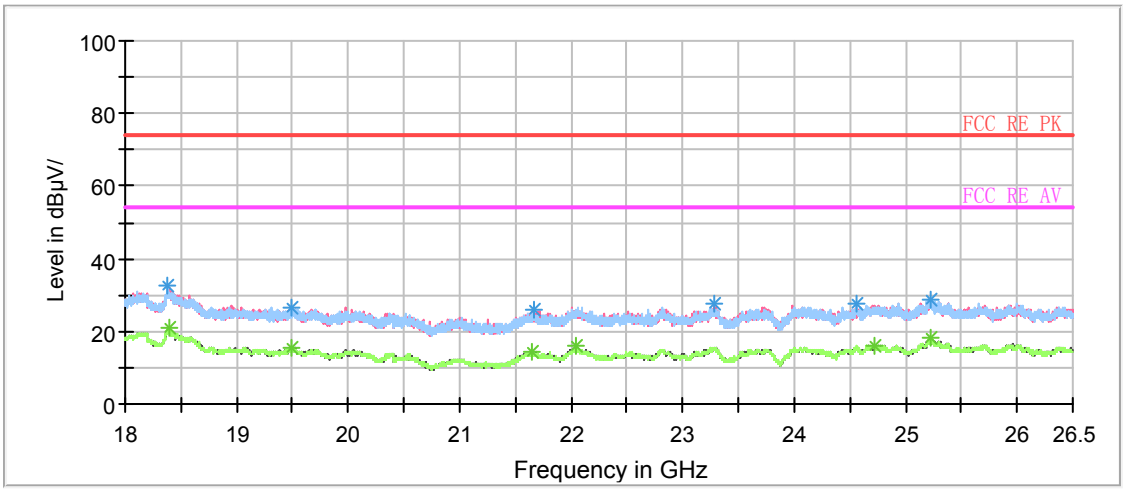
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18385.687500	32.4	H	344.0	37.2	-4.8	41.6	74
19486.437500	26.4	V	0.0	34.1	-7.7	47.6	74
21673.062500	25.8	V	297.0	35.1	-9.3	48.2	74
23290.187500	27.4	V	297.0	34.4	-7.0	46.6	74
24558.812500	27.4	H	172.0	35.2	-7.8	46.6	74
25225.000000	28.9	V	195.0	34.8	-5.9	45.1	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18396.312500	20.8	H	222.0	25.7	-4.9	33.2	54
19485.375000	15.6	H	113.0	23.3	-7.7	38.4	54
21646.500000	14.2	V	88.0	23.4	-9.2	39.8	54
22041.750000	15.8	V	247.0	23.8	-8.0	38.2	54
24727.750000	16.2	V	339.0	22.4	-6.2	37.8	54
25221.812500	18.0	V	255.0	23.9	-5.9	36.0	54

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

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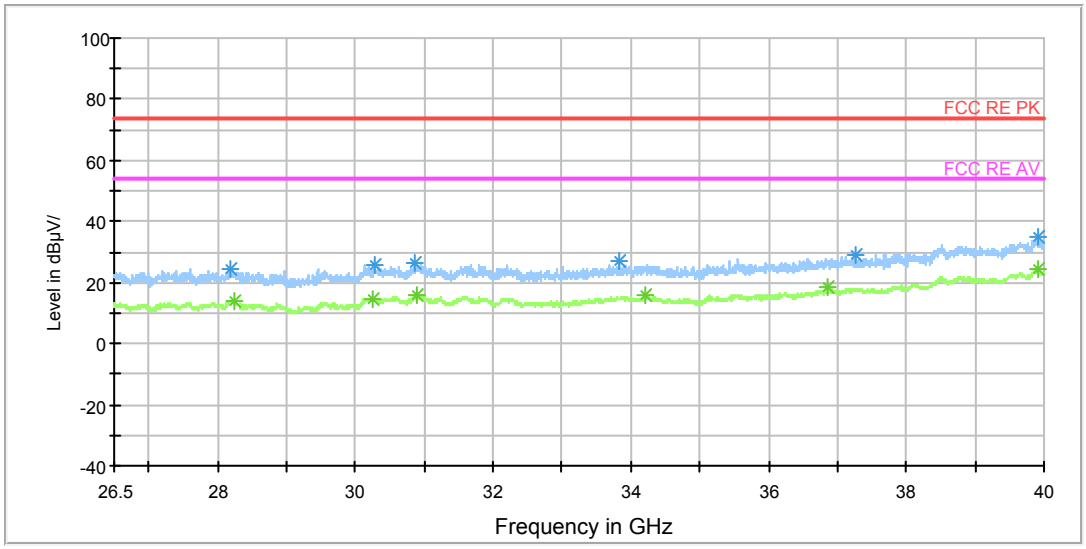
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28231.375000	21.2	100.0	V	0.0	42.9	-21.7	52.8	74
30263.125000	24.6	100.0	H	0.0	46.4	-21.8	49.4	74
30894.250000	24.0	100.0	V	0.0	45.3	-21.3	50.0	74
34208.500000	23.3	100.0	V	0.0	44.6	-21.3	50.7	74
36864.625000	26.0	100.0	V	0.0	47.4	-21.4	48.0	74
39908.875000	32.2	100.0	V	0.0	52.6	-20.4	41.8	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28231.375000	14.1	100.0	V	0.0	35.8	-21.7	39.9	54
30263.125000	14.8	100.0	H	0.0	36.6	-21.8	39.2	54
30894.250000	15.9	100.0	V	0.0	37.2	-21.3	38.1	54
34208.500000	15.6	100.0	V	0.0	36.9	-21.3	38.4	54
36864.625000	18.2	100.0	V	0.0	39.6	-21.4	35.8	54
39908.875000	24.4	100.0	V	0.0	44.8	-20.4	29.6	54

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

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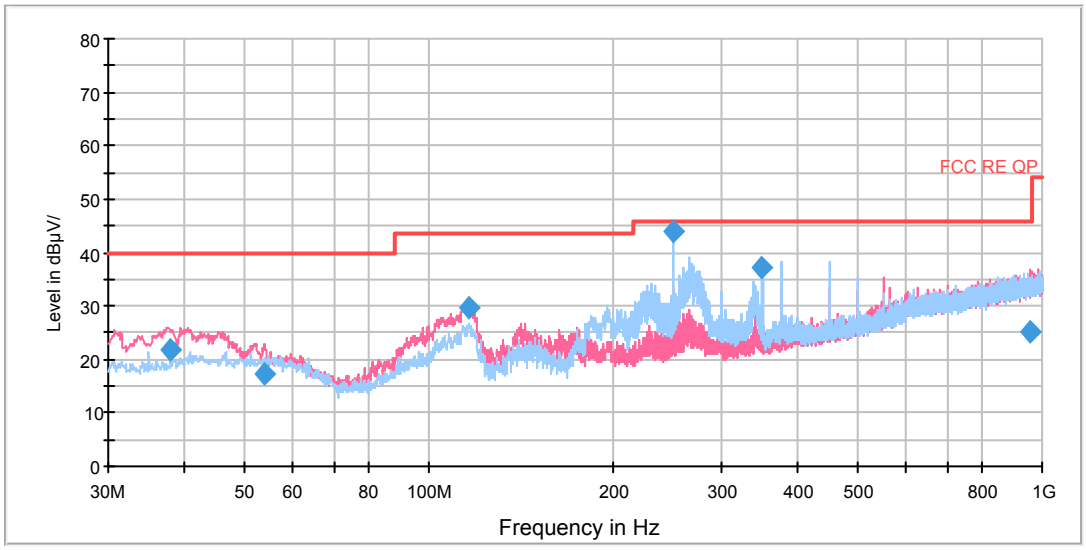
802.11n HT40 CH46

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.757500	21.6	100.0	V	213.0	34.2	12.6	18.4	40.0
53.807500	17.1	100.0	V	168.0	29.9	12.8	22.9	40.0
116.291250	29.7	100.0	V	343.0	40.9	11.2	13.8	43.5
249.987500	43.9	125.0	H	14.0	58.0	14.1	2.1	46.0
349.978750	37.2	100.0	H	59.0	53.9	16.7	8.8	46.0
954.445000	25.3	100.0	V	198.0	51.4	26.1	20.7	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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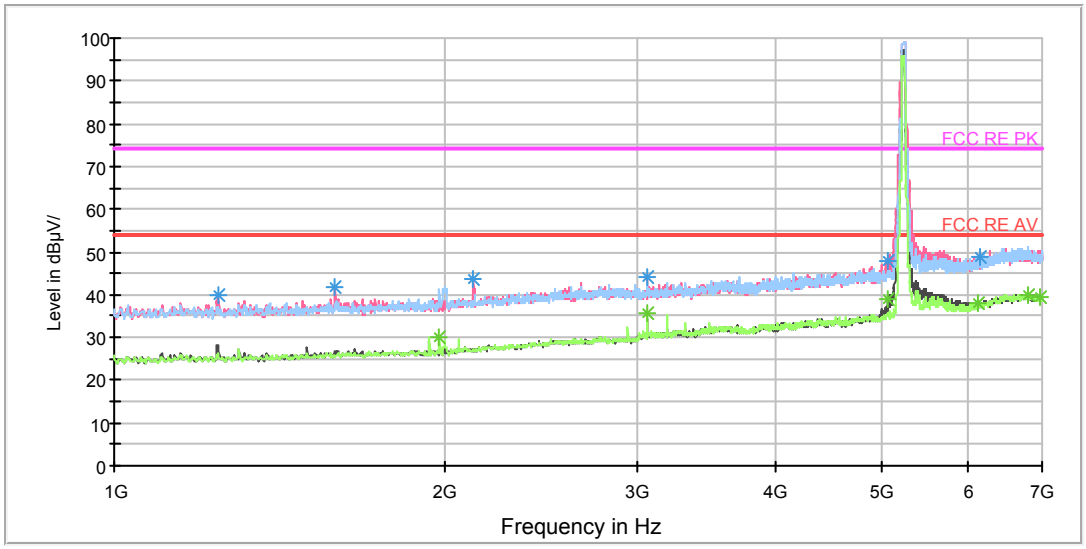
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1243.000000	39.9	100.0	V	88.0	50.3	-10.4	34.1	74
1591.000000	41.8	100.0	V	68.0	50.8	-9.0	32.2	74
2125.000000	43.7	100.0	V	335.0	50.7	-7.0	30.3	74
3062.500000	43.9	100.0	V	255.0	47.6	-3.7	30.1	74
5059.000000	47.8	100.0	V	139.0	48.1	-0.3	26.2	74
6142.000000	48.8	100.0	H	114.0	52.3	3.5	25.2	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1979.500000	30.1	100.0	H	0.0	38.0	-7.9	23.9	54
3062.500000	35.8	100.0	H	304.0	39.5	-3.7	18.2	54
5059.000000	39.0	100.0	V	139.0	39.3	-0.3	15.0	54
6115.000000	37.9	100.0	V	0.0	41.3	3.4	16.1	54
6796.000000	40.1	100.0	V	218.0	45.1	5.0	13.9	54
6971.500000	39.3	100.0	V	357.0	44.2	4.9	14.7	54

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

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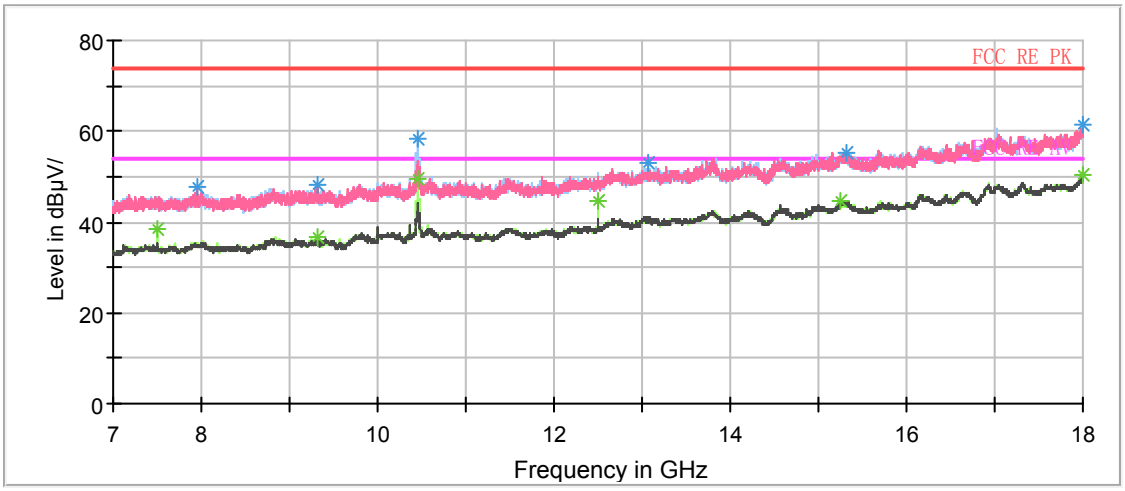
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7943.250000	47.5	100.0	V	146.0	56.3	8.8	26.5	74
9321.000000	48.1	100.0	V	46.0	58.7	10.6	25.9	74
10460.875000	58.2	100.0	H	283.0	70.6	12.4	15.8	74
13059.625000	52.9	100.0	H	197.0	69.1	16.2	21.1	74
15317.375000	55.3	100.0	H	353.0	74.8	19.5	18.7	74
17993.125000	61.5	100.0	H	153.0	86.8	25.3	12.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	38.5	100.0	H	76.0	46.2	7.7	15.5	54
9311.375000	36.6	100.0	H	338.0	47.1	10.5	17.4	54
10459.500000	49.7	100.0	H	283.0	62.1	12.4	4.3	54
12500.000000	44.6	100.0	H	107.0	59.8	15.2	9.4	54
15250.000000	44.8	100.0	V	316.0	64.5	19.7	9.2	54
18000.000000	50.3	100.0	H	225.0	75.7	25.4	3.7	54

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

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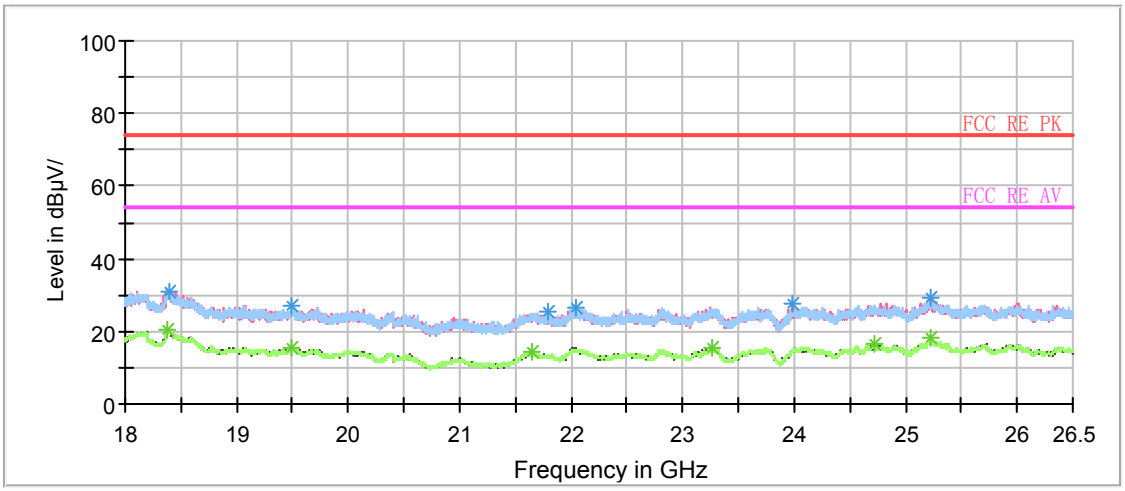
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18387.812500	31.2	H	273.0	36.1	-4.9	42.8	74
19490.687500	27.2	H	198.0	34.8	-7.6	46.8	74
21795.250000	25.2	V	354.0	34.1	-8.9	48.8	74
22038.562500	26.7	H	48.0	34.7	-8.0	47.3	74
23992.500000	27.7	V	354.0	34.9	-7.2	46.3	74
25219.687500	29.3	V	26.0	35.3	-6.0	44.7	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18378.250000	20.7	H	8.0	25.5	-4.8	33.3	54
19500.250000	15.7	V	53.0	23.2	-7.5	38.3	54
21653.937500	14.4	V	334.0	23.6	-9.2	39.6	54
23265.750000	15.5	V	16.0	22.8	-7.3	38.5	54
24726.687500	16.4	H	56.0	22.6	-6.2	37.6	54
25227.125000	18.0	H	130.0	23.9	-5.9	36.0	54

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

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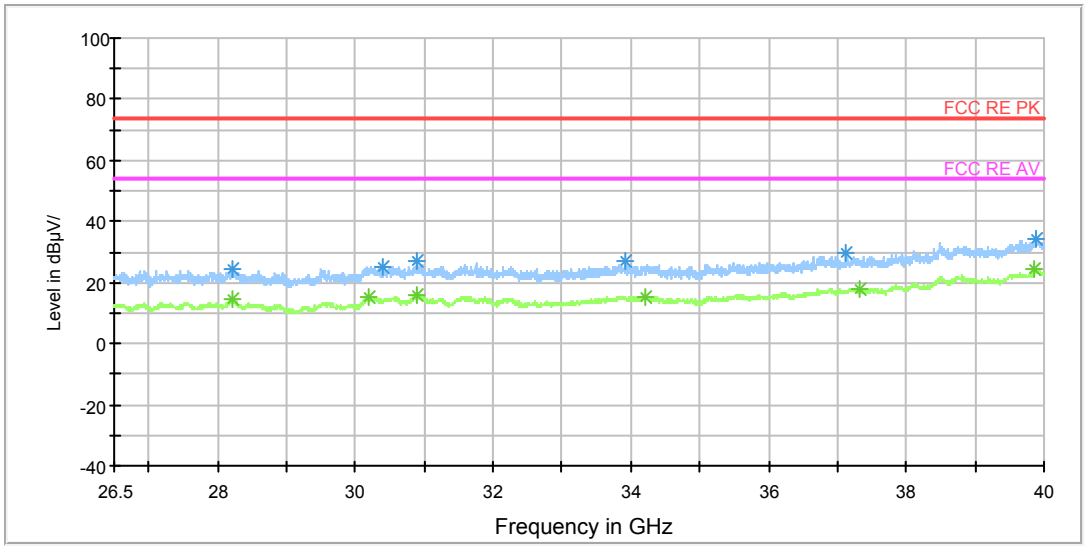
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28214.500000	24.1	100.0	H	0.0	45.8	-21.7	49.9	74
30202.375000	23.6	100.0	V	0.0	45.5	-21.9	50.4	74
30901.000000	24.8	100.0	H	0.0	46.1	-21.3	49.2	74
34201.750000	25.1	100.0	V	0.0	46.4	-21.3	48.9	74
37310.125000	26.8	100.0	V	0.0	48.2	-21.4	47.2	74
39851.500000	33.9	100.0	H	0.0	54.3	-20.4	40.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28214.500000	14.6	100.0	H	0.0	36.3	-21.7	39.4	54
30202.375000	15.1	100.0	V	0.0	37.0	-21.9	38.9	54
30901.000000	15.9	100.0	H	0.0	37.2	-21.3	38.1	54
34201.750000	15.4	100.0	V	0.0	36.7	-21.3	38.6	54
37310.125000	18.2	100.0	V	0.0	39.6	-21.4	35.8	54
39851.500000	24.4	100.0	H	0.0	44.8	-20.4	29.6	54

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

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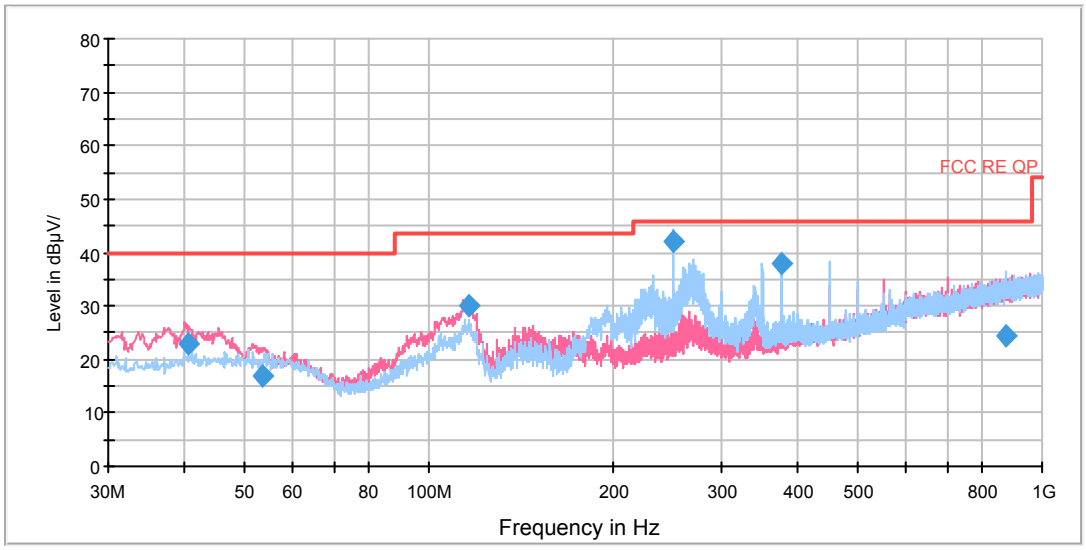
RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.423750	22.8	100.0	V	194.0	36.0	13.2	17.2	40.0
53.727500	16.8	100.0	V	182.0	29.6	12.8	23.2	40.0
116.450000	29.9	100.0	V	332.0	41.1	11.2	13.6	43.5
249.988750	42.1	100.0	H	202.0	56.2	14.1	3.9	46.0
374.996250	37.8	100.0	H	198.0	55.2	17.4	8.2	46.0
875.278750	24.5	125.0	H	16.0	49.8	25.3	21.5	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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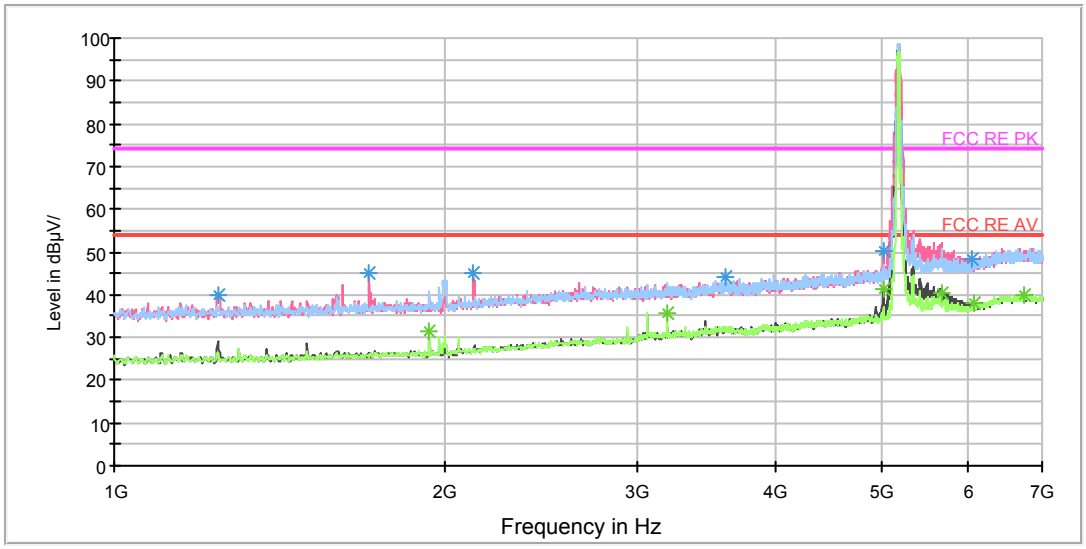

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1246.000000	40.1	100.0	V	80.0	50.5	-10.4	33.9	74
1708.000000	45.0	100.0	V	0.0	53.7	-8.7	29.0	74
2123.500000	45.1	100.0	V	101.0	52.1	-7.0	28.9	74
3610.000000	44.2	100.0	H	1.0	46.8	-2.6	29.8	74
5023.000000	50.2	100.0	V	143.0	50.5	-0.3	23.8	74
6038.500000	48.5	100.0	H	0.0	51.5	3.0	25.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1937.500000	31.4	100.0	H	0.0	39.4	-8.0	22.6	54
3187.000000	35.7	100.0	H	326.0	39.1	-3.4	18.3	54
5023.000000	41.1	100.0	V	143.0	41.4	-0.3	12.9	54
5681.500000	40.5	100.0	V	132.0	42.7	2.2	13.5	54
6064.000000	37.8	100.0	V	255.0	40.9	3.1	16.2	54
6740.500000	40.1	100.0	V	0.0	45.1	5.0	13.9	54

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

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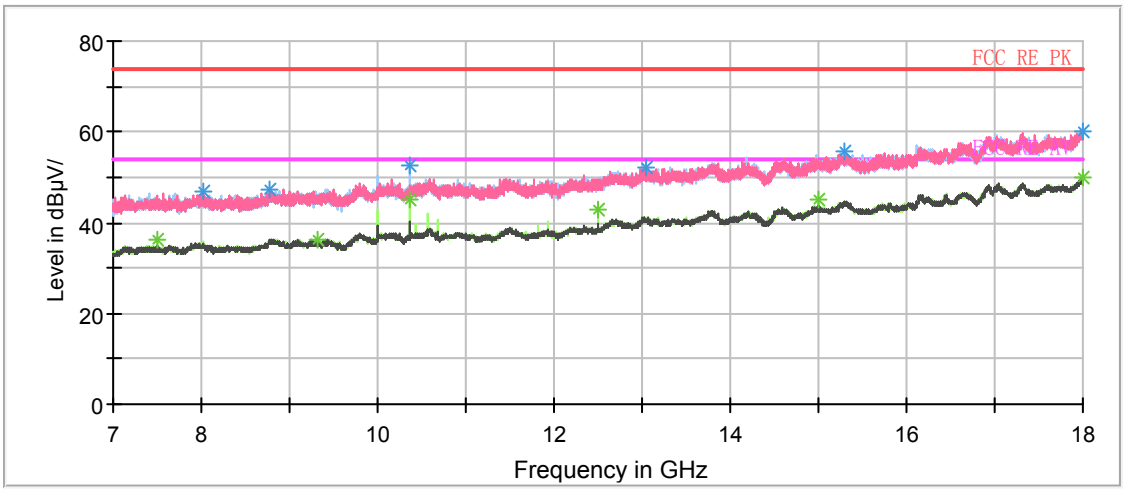
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
8031.250000	46.7	102.0	V	95.0	55.4	8.7	27.3	74
8777.875000	47.4	102.0	H	336.0	56.5	9.1	26.6	74
10359.125000	52.6	102.0	H	294.0	64.1	11.5	21.4	74
13050.000000	52.2	102.0	V	38.0	68.4	16.2	21.8	74
15298.125000	55.5	102.0	H	0.0	75.1	19.6	18.5	74
17998.625000	60.1	102.0	H	0.0	85.5	25.4	13.9	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	36.3	102.0	H	91.0	44.0	7.7	17.7	54
9312.750000	36.3	102.0	H	137.0	46.9	10.6	17.7	54
10359.125000	44.9	102.0	H	294.0	56.4	11.5	9.1	54
12500.000000	43.0	102.0	H	336.0	58.2	15.2	11.0	54
14999.750000	45.0	102.0	H	0.0	64.5	19.5	9.0	54
17997.250000	49.9	102.0	V	67.0	75.3	25.4	4.1	54

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

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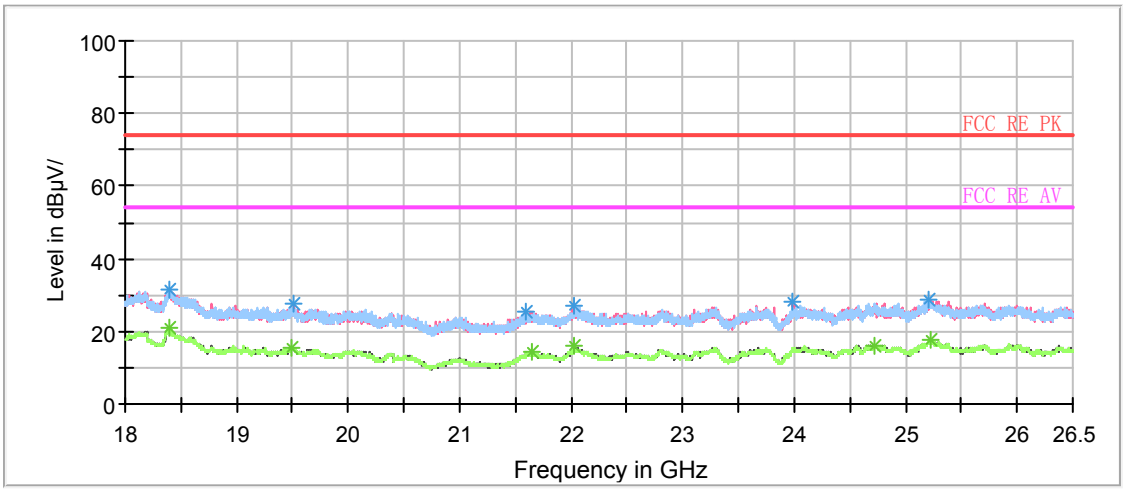
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18387.812500	30.2	H	110.0	35.1	-4.9	43.8	74
19499.187500	25.5	V	200.0	33.0	-7.5	48.5	74
21645.437500	24.0	V	217.0	33.1	-9.1	50.0	74
22030.062500	24.6	H	270.0	32.6	-8.0	49.4	74
24728.812500	25.7	V	138.0	31.9	-6.2	48.3	74
25230.312500	27.1	H	228.0	33.0	-5.9	46.9	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18387.812500	21.0	H	110.0	25.9	-4.9	33.0	54
19499.187500	15.7	V	200.0	23.2	-7.5	38.3	54
21645.437500	14.2	V	217.0	23.3	-9.1	39.8	54
22030.062500	15.9	H	270.0	23.9	-8.0	38.1	54
24728.812500	16.2	V	138.0	22.4	-6.2	37.8	54
25230.312500	17.9	H	228.0	23.8	-5.9	36.1	54

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

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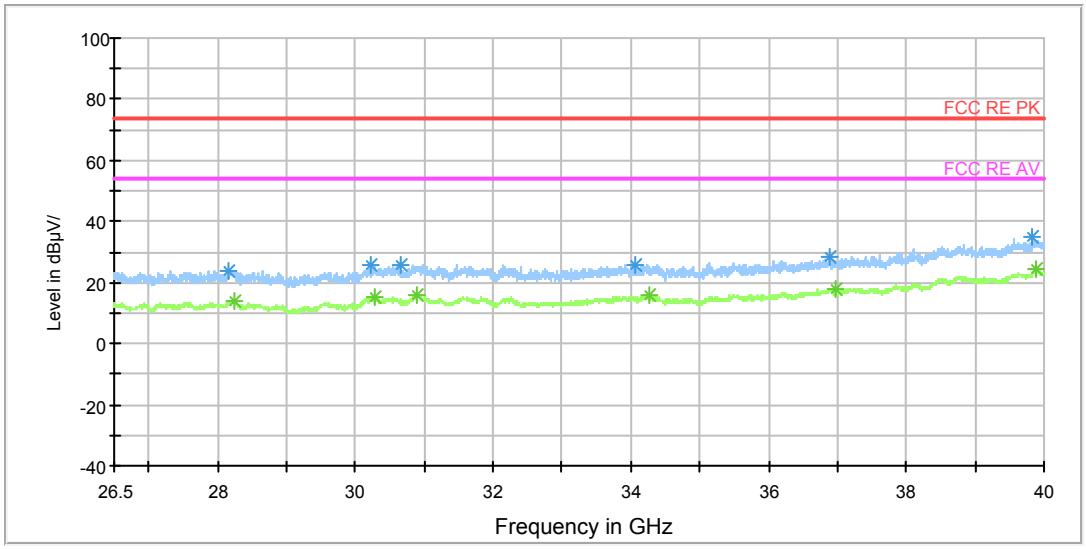
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28231.375000	22.5	100.0	H	0.0	44.2	-21.7	51.5	74
30280.000000	22.9	100.0	H	0.0	44.6	-21.7	51.1	74
30880.750000	23.9	100.0	H	0.0	45.2	-21.3	50.1	74
34255.750000	23.0	100.0	V	0.0	44.2	-21.2	51.0	74
36976.000000	25.3	100.0	H	0.0	46.7	-21.4	48.7	74
39888.625000	32.8	100.0	H	0.0	53.2	-20.4	41.2	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28231.375000	14.1	100.0	H	0.0	35.8	-21.7	39.9	54
30280.000000	15.0	100.0	H	0.0	36.7	-21.7	39.0	54
30880.750000	15.7	100.0	H	0.0	37.0	-21.3	38.3	54
34255.750000	15.6	100.0	V	0.0	36.8	-21.2	38.4	54
36976.000000	18.0	100.0	H	0.0	39.4	-21.4	36.0	54
39888.625000	24.1	100.0	H	0.0	44.5	-20.4	29.9	54

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

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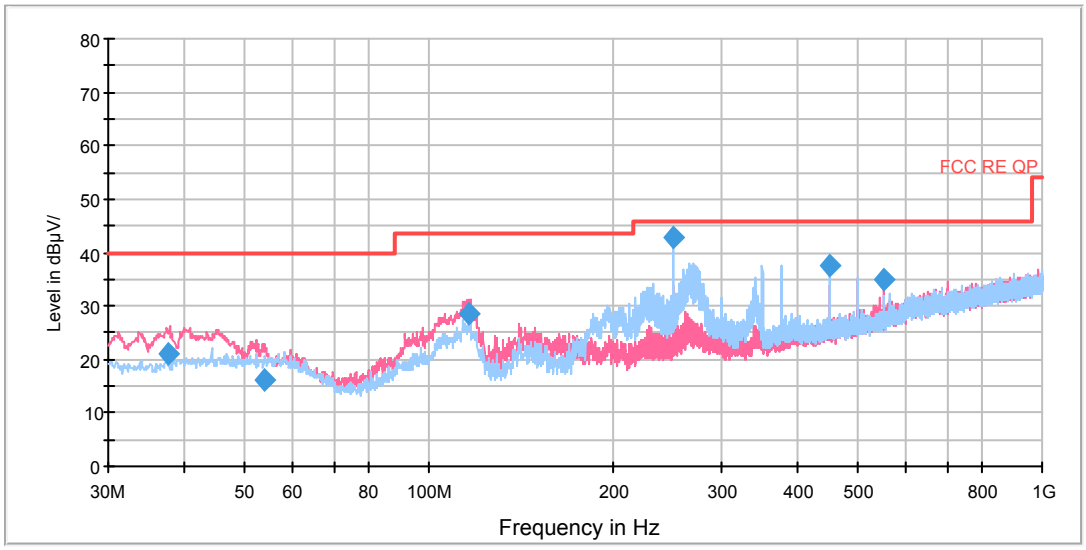
RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.480000	20.9	100.0	V	348.0	33.4	12.5	19.1	40.0
53.767500	16.3	100.0	V	58.0	29.1	12.8	23.7	40.0
116.531250	28.6	100.0	V	324.0	39.8	11.2	14.9	43.5
249.987500	43.0	100.0	H	14.0	57.1	14.1	3.0	46.0
450.010000	37.7	100.0	H	222.0	56.7	19.0	8.3	46.0
550.001250	35.0	100.0	V	278.0	56.0	21.0	11.0	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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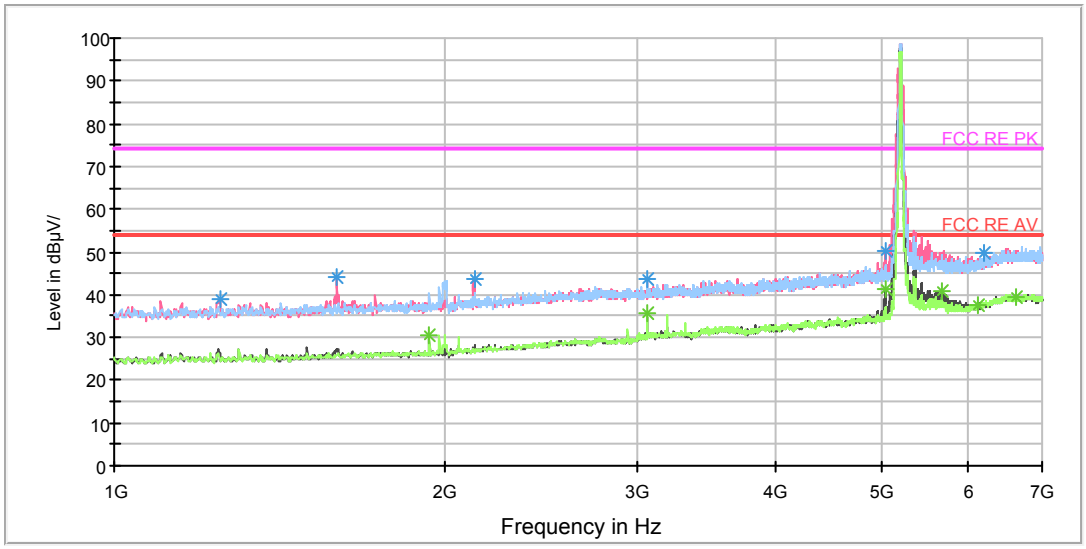

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1247.500000	38.8	100.0	V	86.0	49.2	-10.4	35.2	74
1595.500000	44.2	100.0	V	5.0	53.2	-9.0	29.8	74
2131.000000	43.7	100.0	V	326.0	50.6	-6.9	30.3	74
3062.500000	43.5	100.0	H	25.0	47.2	-3.7	30.5	74
5036.500000	50.3	100.0	V	138.0	50.6	-0.3	23.7	74
6196.000000	49.9	100.0	H	5.0	53.7	3.8	24.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1937.500000	30.7	100.0	H	0.0	38.7	-8.0	23.3	54
3062.500000	35.7	100.0	H	25.0	39.4	-3.7	18.3	54
5036.500000	41.1	100.0	V	138.0	41.4	-0.3	12.9	54
5681.500000	40.9	100.0	V	138.0	43.1	2.2	13.1	54
6122.500000	37.6	100.0	H	4.0	41.0	3.4	16.4	54
6641.500000	39.5	100.0	V	359.0	44.6	5.1	14.5	54

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

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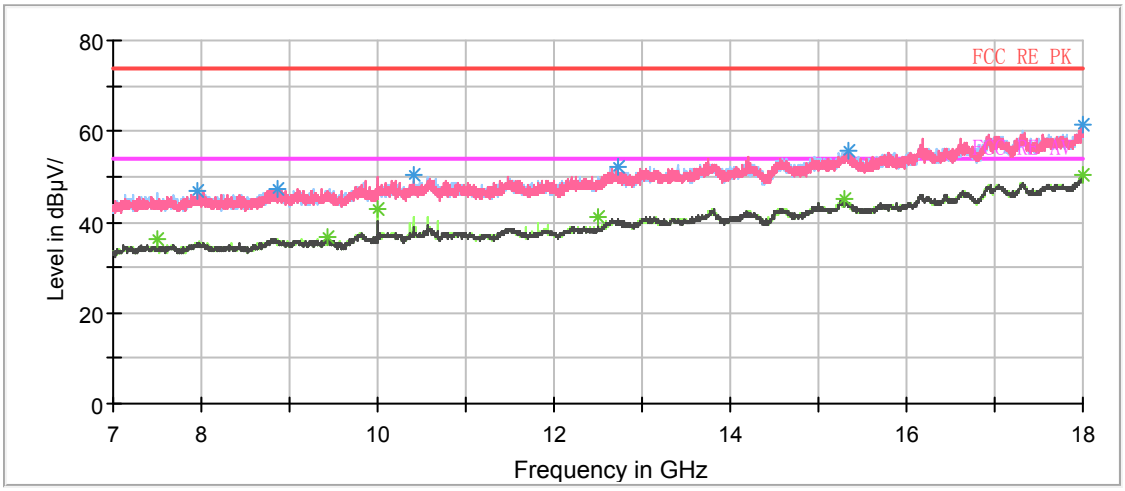
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7951.500000	47.0	102.0	V	1.0	55.8	8.8	27.0	74
8868.625000	47.4	102.0	V	213.0	57.5	10.1	26.6	74
10400.375000	50.2	102.0	H	73.0	62.1	11.9	23.8	74
12721.375000	52.0	102.0	V	28.0	67.1	15.1	22.0	74
15332.500000	55.5	102.0	V	28.0	74.8	19.3	18.5	74
17989.000000	61.3	102.0	V	14.0	86.6	25.3	12.7	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	36.0	102.0	H	330.0	43.7	7.7	18.0	54
9437.875000	36.7	102.0	H	330.0	47.6	10.9	17.3	54
10000.250000	42.7	102.0	H	132.0	55.8	13.1	11.3	54
12500.000000	41.3	102.0	H	330.0	56.5	15.2	12.7	54
15303.625000	44.9	102.0	H	103.0	64.5	19.6	9.1	54
17997.250000	50.2	102.0	V	56.0	75.6	25.4	3.8	54

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

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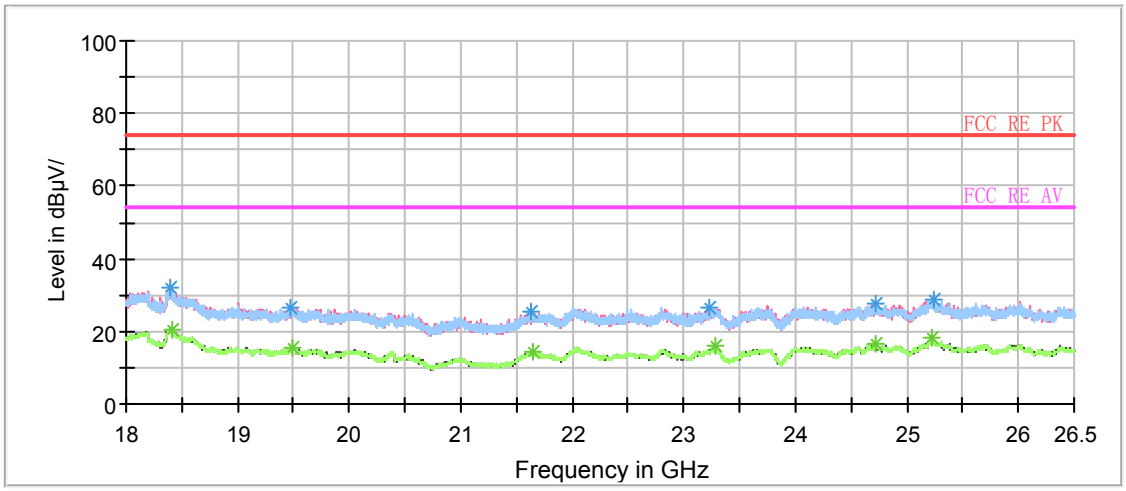
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18410.125000	29.5	V	352.0	34.5	-5.0	44.5	74
19498.125000	25.5	H	297.0	33.0	-7.5	48.5	74
21639.062500	23.0	V	0.0	32.1	-9.1	51.0	74
23279.562500	25.9	V	0.0	33.0	-7.1	48.1	74
24722.437500	26.9	H	0.0	33.1	-6.2	47.1	74
25221.812500	27.4	H	43.0	33.3	-5.9	46.6	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18410.125000	20.6	V	352.0	25.6	-5.0	33.4	54
19498.125000	15.4	H	297.0	22.9	-7.5	38.6	54
21639.062500	14.2	V	0.0	23.3	-9.1	39.8	54
23279.562500	15.9	V	0.0	23.0	-7.1	38.1	54
24722.437500	16.6	H	0.0	22.8	-6.2	37.4	54
25221.812500	18.1	H	43.0	24.0	-5.9	35.9	54

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

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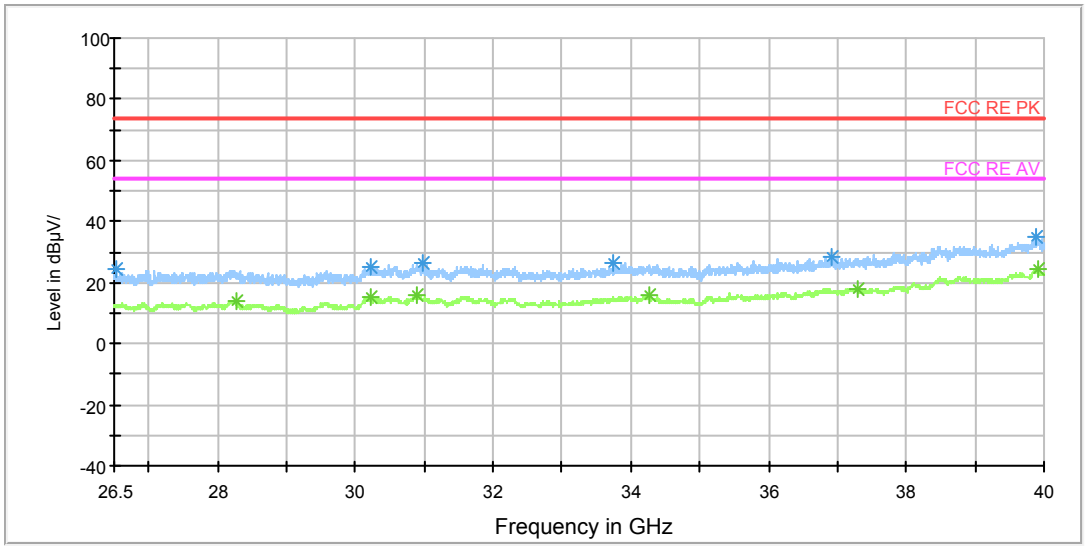
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28261.750000	21.4	100.0	V	0.0	43.1	-21.7	52.6	74
30222.625000	23.1	100.0	H	0.0	45.0	-21.9	50.9	74
30884.125000	25.7	100.0	V	0.0	47.0	-21.3	48.3	74
34255.750000	25.7	100.0	H	0.0	46.9	-21.2	48.3	74
37283.125000	26.7	100.0	V	0.0	48.1	-21.4	47.3	74
39898.750000	33.7	100.0	V	0.0	54.1	-20.4	40.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28261.750000	14.1	100.0	V	0.0	35.8	-21.7	39.9	54
30222.625000	15.2	100.0	H	0.0	37.1	-21.9	38.8	54
30884.125000	15.8	100.0	V	0.0	37.1	-21.3	38.2	54
34255.750000	15.7	100.0	H	0.0	36.9	-21.2	38.3	54
37283.125000	17.9	100.0	V	0.0	39.3	-21.4	36.1	54
39898.750000	24.3	100.0	V	0.0	44.7	-20.4	29.7	54

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

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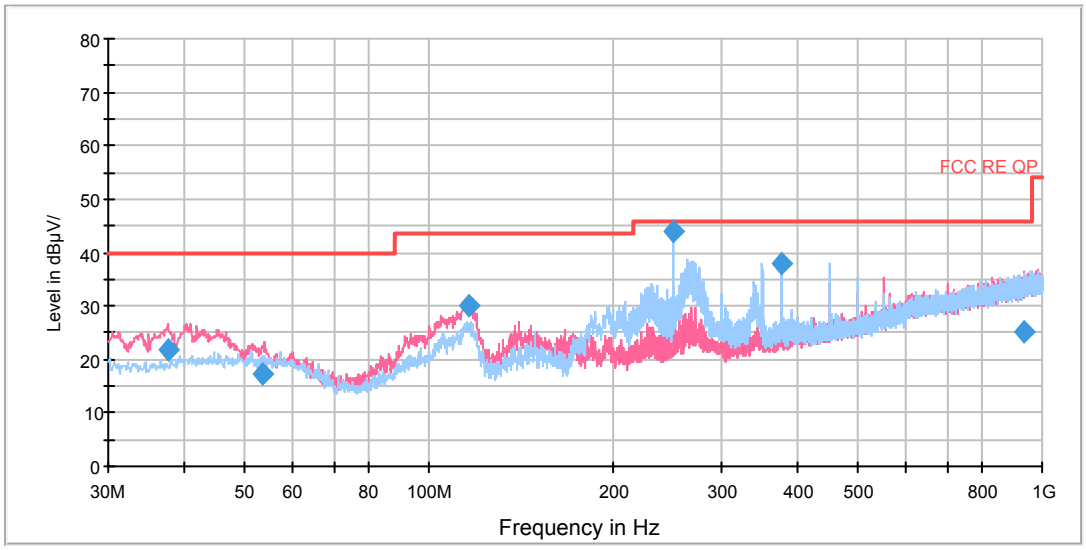
802.11ac HT20 CH48

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.677500	21.7	100.0	V	264.0	34.3	12.6	18.3	40.0
53.727500	17.2	100.0	V	218.0	30.0	12.8	22.8	40.0
116.253750	30.0	100.0	V	334.0	41.2	11.2	13.5	43.5
249.988750	43.9	125.0	H	202.0	58.0	14.1	2.1	46.0
374.996250	37.8	100.0	H	198.0	55.2	17.4	8.2	46.0
932.136250	25.1	125.0	V	17.0	51.0	25.9	20.9	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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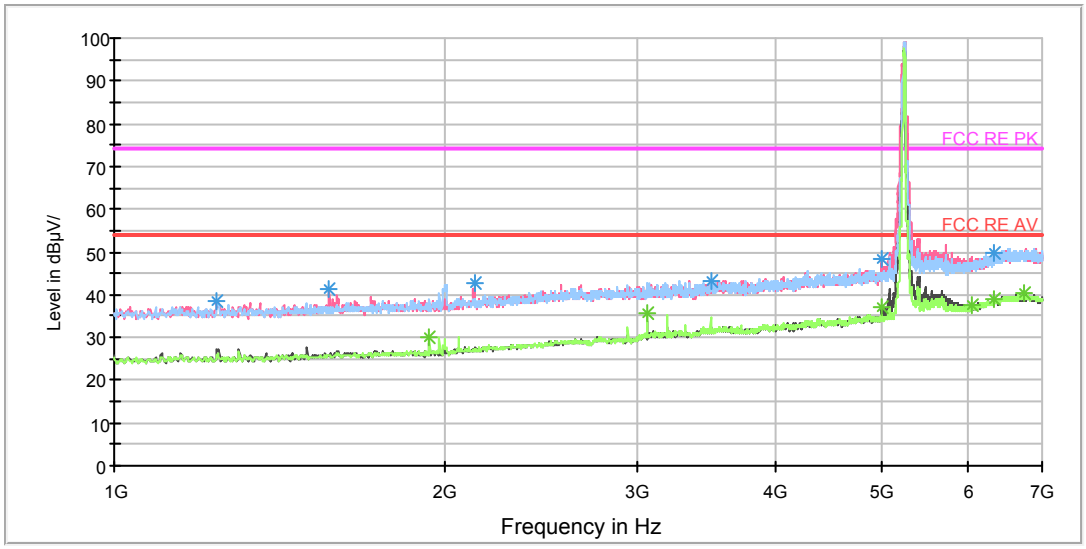
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1240.000000	38.6	100.0	V	97.0	49.0	-10.4	35.4	74
1570.000000	41.2	100.0	V	118.0	50.3	-9.1	32.8	74
2132.500000	42.7	100.0	V	336.0	49.6	-6.9	31.3	74
3494.500000	43.3	100.0	H	2.0	46.0	-2.7	30.7	74
4997.500000	48.3	100.0	V	140.0	48.6	-0.3	25.7	74
6335.500000	49.8	100.0	H	242.0	54.4	4.6	24.2	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1937.500000	30.2	100.0	H	2.0	38.2	-8.0	23.8	54
3062.500000	35.8	100.0	H	252.0	39.5	-3.7	18.2	54
5008.000000	37.3	100.0	V	140.0	37.6	-0.3	16.7	54
6041.500000	37.6	100.0	H	113.0	40.6	3.0	16.4	54
6337.000000	39.0	100.0	H	0.0	43.6	4.6	15.0	54
6740.500000	40.2	100.0	V	342.0	45.2	5.0	13.8	54

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

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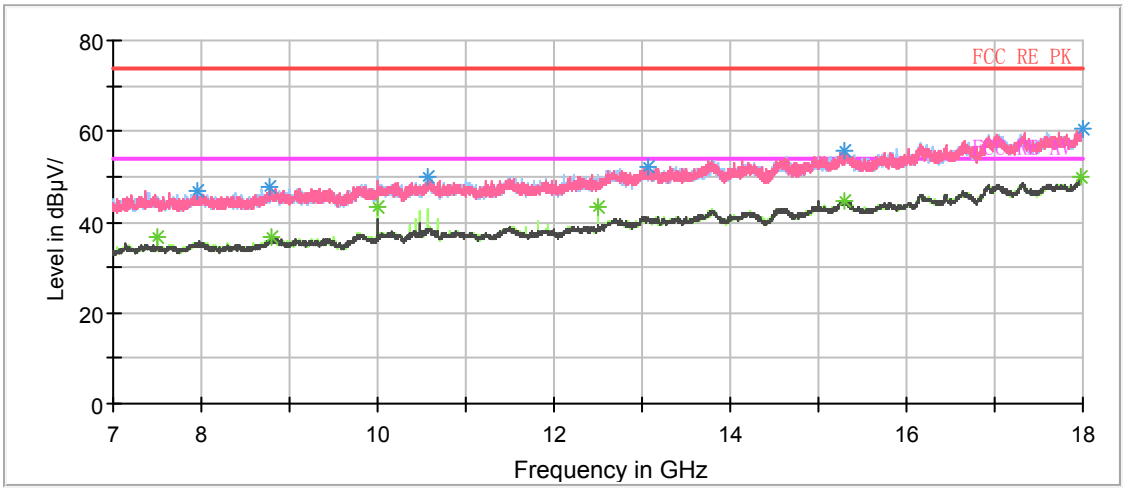
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7957.000000	46.8	102.0	H	253.0	55.6	8.8	27.2	74
8782.000000	47.5	102.0	V	0.0	56.7	9.2	26.5	74
10561.250000	50.1	102.0	H	76.0	63.4	13.3	23.9	74
13058.250000	52.1	102.0	V	97.0	68.3	16.2	21.9	74
15299.500000	55.6	102.0	V	10.0	75.2	19.6	18.4	74
17989.000000	60.7	102.0	V	0.0	86.0	25.3	13.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	36.7	102.0	H	120.0	44.4	7.7	17.3	54
8793.000000	36.7	102.0	V	0.0	45.9	9.2	17.3	54
10000.250000	43.2	102.0	H	136.0	56.3	13.1	10.8	54
12500.000000	43.4	102.0	H	337.0	58.6	15.2	10.6	54
15296.750000	44.8	102.0	V	38.0	64.4	19.6	9.2	54
17986.250000	49.9	102.0	V	10.0	75.1	25.2	4.1	54

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

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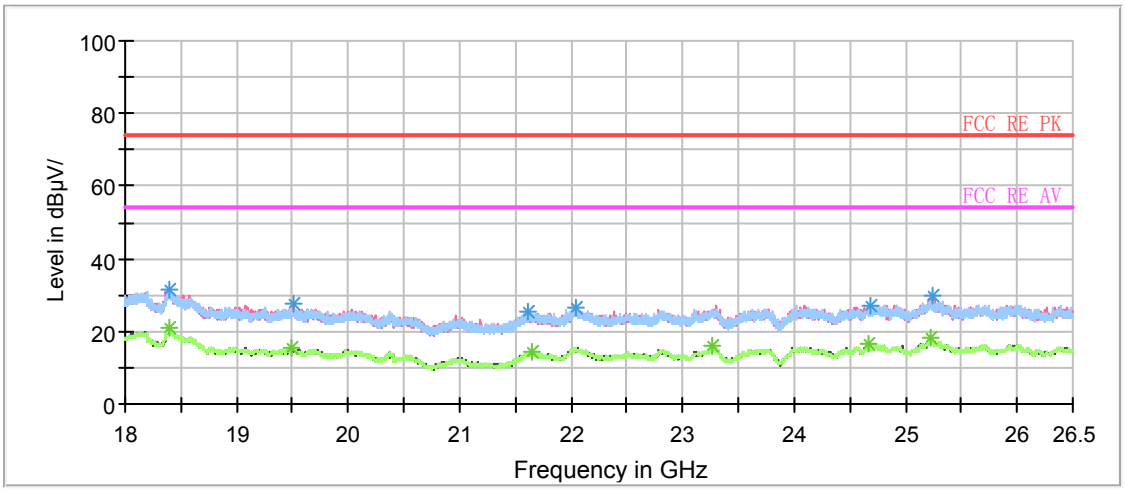
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18392.062500	29.7	H	125.0	34.6	-4.9	44.3	74
19484.312500	25.9	V	353.0	33.6	-7.7	48.1	74
21651.812500	23.8	V	0.0	33.0	-9.2	50.2	74
23260.437500	24.3	V	345.0	31.7	-7.4	49.7	74
24659.750000	25.6	V	258.0	32.6	-7.0	48.4	74
25231.375000	27.6	V	182.0	33.5	-5.9	46.4	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18392.062500	20.8	H	125.0	25.7	-4.9	33.2	54
19484.312500	15.5	V	353.0	23.2	-7.7	38.5	54
21651.812500	14.5	V	0.0	23.7	-9.2	39.5	54
23260.437500	15.8	V	345.0	23.2	-7.4	38.2	54
24659.750000	16.4	V	258.0	23.4	-7.0	37.6	54
25231.375000	18.0	V	182.0	23.9	-5.9	36.0	54

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

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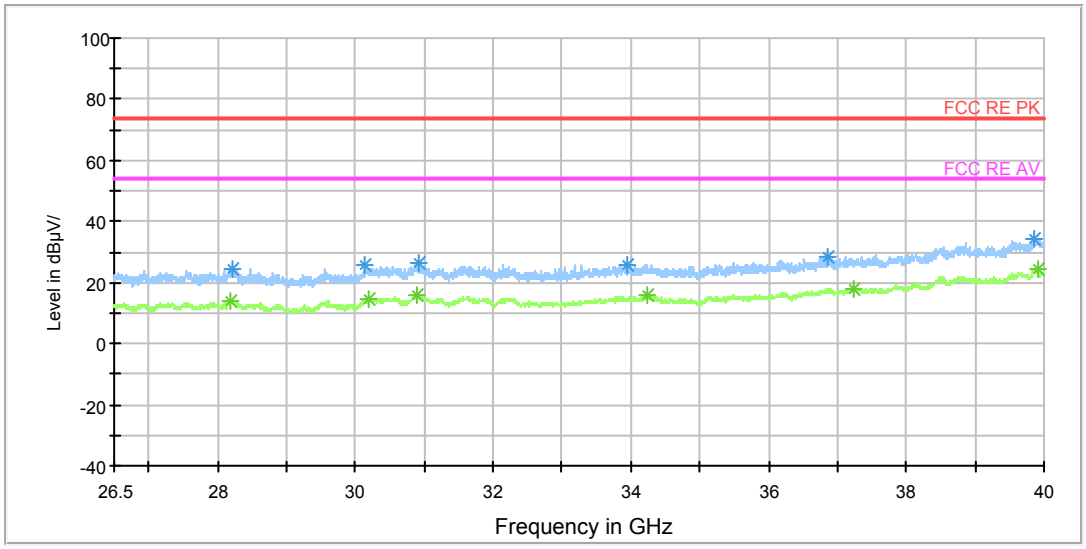
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28184.125000	22.1	100.0	H	0.0	43.7	-21.6	51.9	74
30209.125000	22.6	100.0	H	0.0	44.5	-21.9	51.4	74
30897.625000	24.5	100.0	H	0.0	45.8	-21.3	49.5	74
34242.250000	23.3	100.0	V	0.0	44.6	-21.3	50.7	74
37239.250000	25.6	100.0	V	0.0	47.0	-21.4	48.4	74
39898.750000	33.7	100.0	H	0.0	54.1	-20.4	40.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28184.125000	14.1	100.0	H	0.0	35.7	-21.6	39.9	54
30209.125000	14.7	100.0	H	0.0	36.6	-21.9	39.3	54
30897.625000	15.8	100.0	H	0.0	37.1	-21.3	38.2	54
34242.250000	15.6	100.0	V	0.0	36.9	-21.3	38.4	54
37239.250000	18.1	100.0	V	0.0	39.5	-21.4	35.9	54
39898.750000	24.6	100.0	H	0.0	45.0	-20.4	29.4	54

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

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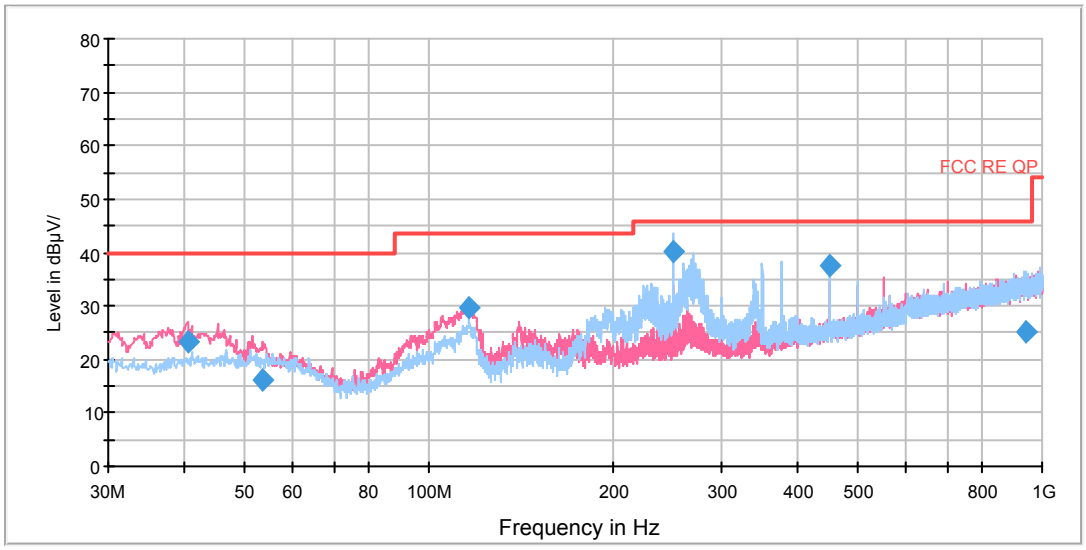
802.11ac HT40 CH38

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.467500	23.3	100.0	V	170.0	36.5	13.2	16.7	40.0
53.608750	16.1	100.0	V	354.0	28.9	12.8	23.9	40.0
116.288750	29.7	100.0	V	336.0	40.9	11.2	13.8	43.5
250.027500	40.2	125.0	H	196.0	54.3	14.1	5.8	46.0
450.010000	37.7	100.0	H	39.0	56.7	19.0	8.3	46.0
939.247500	25.1	100.0	H	244.0	51.0	25.9	20.9	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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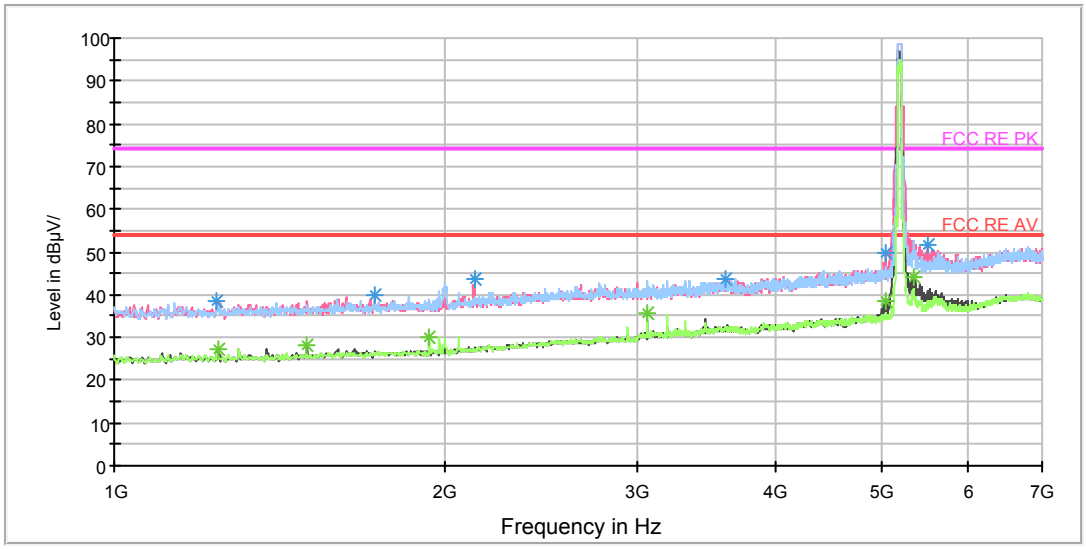
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1241.500000	38.5	100.0	V	325.0	48.9	-10.4	35.5	74
1729.000000	40.1	100.0	V	282.0	48.7	-8.6	33.9	74
2128.000000	43.6	100.0	V	325.0	50.6	-7.0	30.4	74
3604.000000	43.5	100.0	H	33.0	46.1	-2.6	30.5	74
5045.500000	49.9	100.0	V	141.0	50.2	-0.3	24.1	74
5509.000000	51.6	100.0	V	141.0	53.1	1.5	22.4	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1243.000000	27.4	100.0	V	90.0	37.8	-10.4	26.6	54
1499.500000	28.0	100.0	V	218.0	37.5	-9.5	26.0	54
1937.500000	30.1	100.0	H	0.0	38.1	-8.0	23.9	54
3062.500000	35.8	100.0	H	259.0	39.5	-3.7	18.2	54
5044.000000	38.5	100.0	V	141.0	38.8	-0.3	15.5	54
5359.000000	44.1	100.0	V	141.0	44.9	0.8	9.9	54

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

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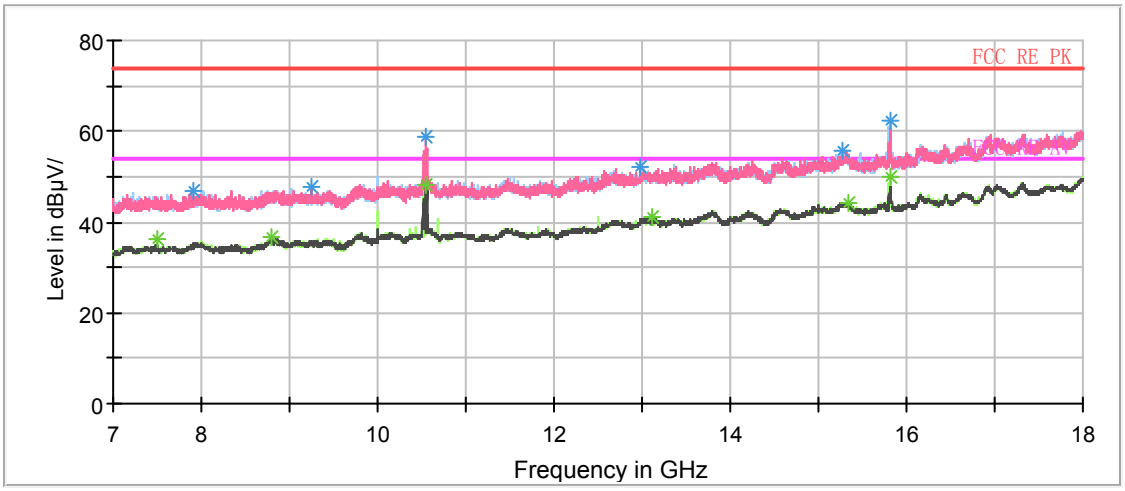
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7899.250000	47.0	102.0	H	238.0	56.0	9.0	27.0	74
9246.750000	47.9	102.0	V	0.0	57.8	9.9	26.1	74
10554.375000	59.0	102.0	V	125.0	72.2	13.2	15.0	74
12973.000000	52.1	102.0	V	0.0	68.3	16.2	21.9	74
15263.750000	55.5	102.0	H	330.0	75.2	19.7	18.5	74
15817.875000	62.4	102.0	H	90.0	82.5	20.1	11.6	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	36.3	102.0	H	0.0	44.0	7.7	17.7	54
8793.000000	36.5	102.0	V	69.0	45.7	9.2	17.5	54
10554.375000	48.2	102.0	V	125.0	61.4	13.2	5.8	54
13114.625000	41.0	102.0	V	13.0	57.0	16.0	13.0	54
15346.250000	44.4	102.0	V	83.0	63.6	19.2	9.6	54
15819.250000	50.0	102.0	H	90.0	70.1	20.1	4.0	54

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

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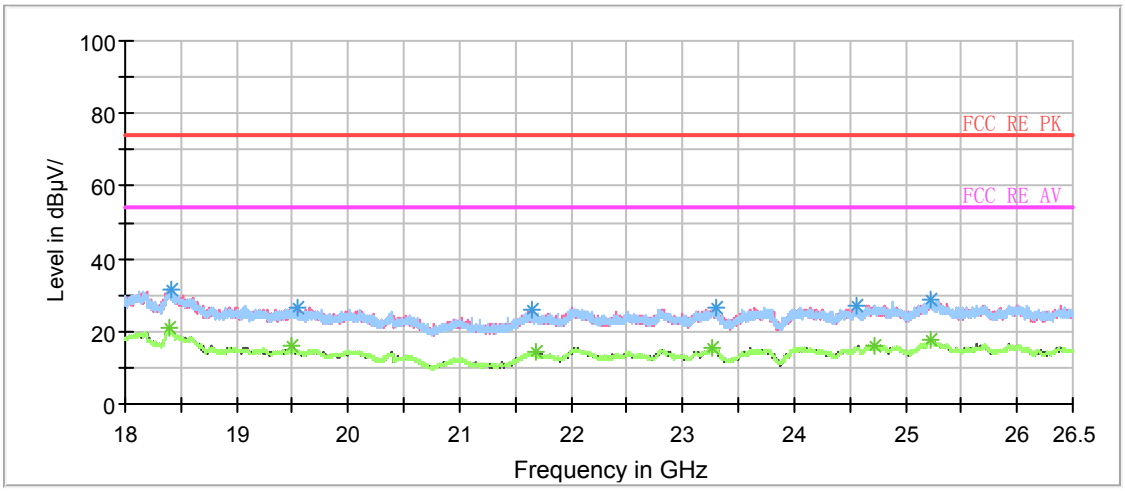
RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18387.812500	30.0	H	71.0	34.9	-4.9	44.0	74
19497.062500	25.4	H	128.0	32.9	-7.5	48.6	74
21683.687500	23.6	H	128.0	33.0	-9.4	50.4	74
23265.750000	25.3	V	326.0	32.6	-7.3	48.7	74
24724.562500	25.5	V	0.0	31.7	-6.2	48.5	74
25223.937500	27.3	V	167.0	33.2	-5.9	46.7	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18387.812500	20.8	H	71.0	25.7	-4.9	33.2	54
19497.062500	15.9	H	128.0	23.4	-7.5	38.1	54
21683.687500	14.2	H	128.0	23.6	-9.4	39.8	54
23265.750000	15.5	V	326.0	22.8	-7.3	38.5	54
24724.562500	16.3	V	0.0	22.5	-6.2	37.7	54
25223.937500	17.9	V	167.0	23.8	-5.9	36.1	54

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

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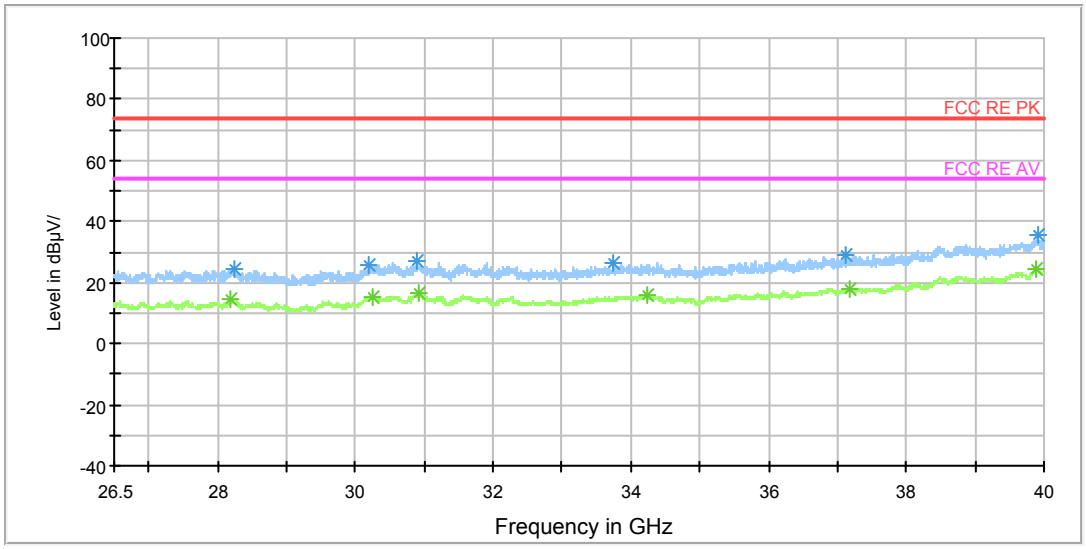
RE 26.5-40GHz PK+AV Class B



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28190.875000	23.2	100.0	V	0.0	44.8	-21.6	50.8	74
30253.000000	23.5	100.0	V	0.0	45.3	-21.8	50.5	74
30928.000000	24.1	100.0	V	0.0	45.3	-21.2	49.9	74
34228.750000	23.6	100.0	V	0.0	44.9	-21.3	50.4	74
37175.125000	26.3	100.0	V	0.0	47.7	-21.4	47.7	74
39892.000000	33.2	100.0	H	0.0	53.6	-20.4	40.8	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
28190.875000	14.5	100.0	V	0.0	36.1	-21.6	39.5	54
30253.000000	15.5	100.0	V	0.0	37.3	-21.8	38.5	54
30928.000000	16.6	100.0	V	0.0	37.8	-21.2	37.4	54
34228.750000	15.8	100.0	V	0.0	37.1	-21.3	38.2	54
37175.125000	18.0	100.0	V	0.0	39.4	-21.4	36.0	54
39892.000000	24.5	100.0	H	0.0	44.9	-20.4	29.5	54

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

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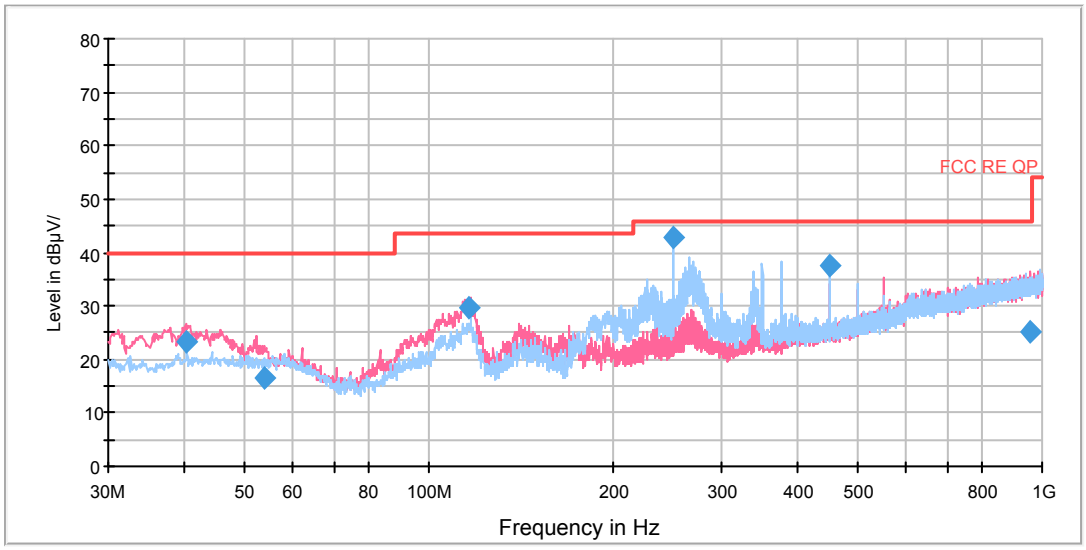
802.11ac HT40 CH46

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.185000	23.3	100.0	V	202.0	36.5	13.2	16.7	40.0
53.766250	16.7	100.0	V	203.0	29.5	12.8	23.3	40.0
116.295000	29.7	100.0	V	334.0	40.9	11.2	13.8	43.5
250.028750	42.9	100.0	H	206.0	57.0	14.1	3.1	46.0
450.010000	37.7	100.0	H	36.0	56.7	19.0	8.3	46.0
955.905000	25.3	113.0	V	274.0	51.4	26.1	20.7	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

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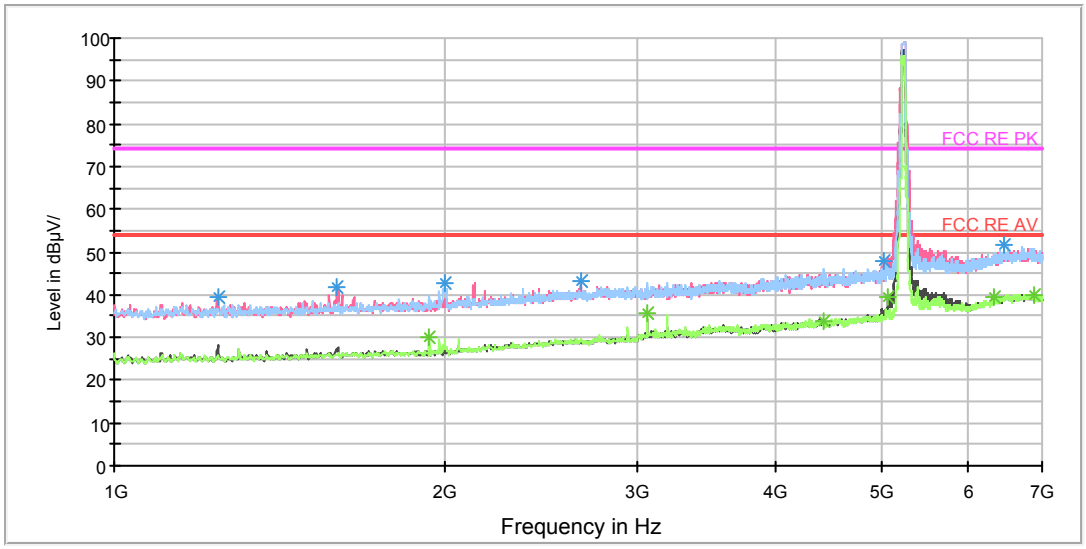
Copy of RE 1G-7GHz PK+AV Class A



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1243.000000	39.4	100.0	V	86.0	49.8	-10.4	34.6	74
1595.500000	41.9	100.0	V	174.0	50.9	-9.0	32.1	74
1999.000000	42.8	100.0	H	0.0	50.6	-7.8	31.2	74
2657.500000	43.2	100.0	V	342.0	47.8	-4.6	30.8	74
5024.500000	47.8	100.0	V	164.0	48.1	-0.3	26.2	74
6470.500000	51.8	100.0	H	310.0	57.1	5.3	22.2	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1937.500000	30.1	100.0	H	1.0	38.1	-8.0	23.9	54
3062.500000	35.9	100.0	H	32.0	39.6	-3.7	18.1	54
5060.500000	39.3	100.0	V	139.0	39.6	-0.3	14.7	54
4429.000000	33.9	100.0	V	215.0	35.0	-1.1	20.1	54
6341.500000	39.6	100.0	V	342.0	44.3	4.7	14.4	54
6877.000000	39.9	100.0	H	237.0	44.9	5.0	14.1	54

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

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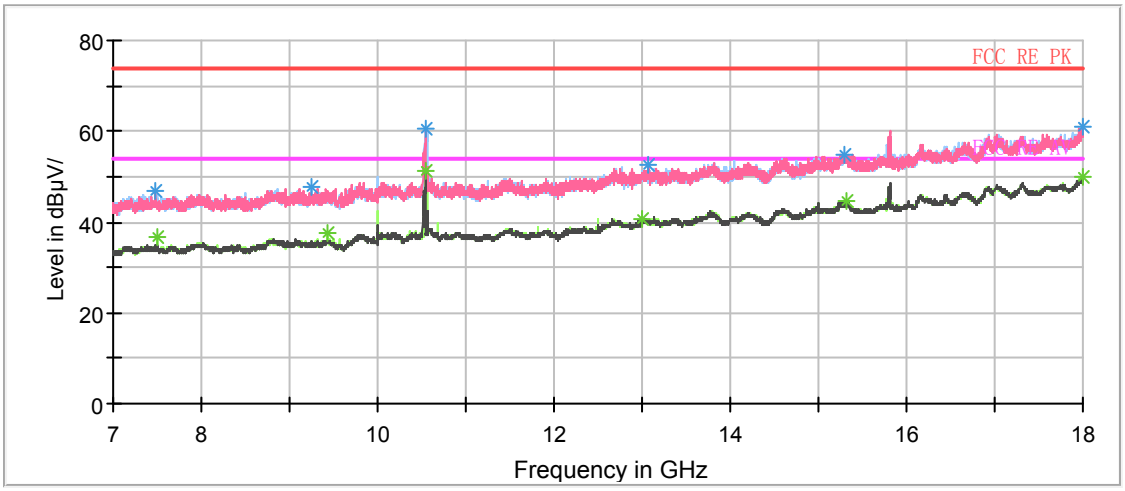
RE 3-18GHz PK+AV



Radiates Emission from 7GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7482.625000	46.6	102.0	V	0.0	54.3	7.7	27.4	74
9250.875000	47.6	102.0	H	0.0	57.5	9.9	26.4	74
10554.375000	60.5	102.0	H	242.0	73.7	13.2	13.5	74
13078.875000	52.5	102.0	V	200.0	68.7	16.2	21.5	74
15298.125000	54.8	102.0	V	0.0	74.4	19.6	19.2	74
17998.625000	61.0	102.0	V	0.0	86.4	25.4	13.0	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	36.5	102.0	H	93.0	44.2	7.7	17.5	54
9436.500000	37.4	102.0	H	257.0	48.3	10.9	16.6	54
10553.000000	51.2	102.0	H	242.0	64.4	13.2	2.8	54
13004.625000	40.8	102.0	H	0.0	57.0	16.2	13.2	54
15321.500000	44.5	102.0	V	115.0	63.9	19.4	9.5	54
17989.000000	50.0	102.0	H	0.0	75.3	25.3	4.0	54

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

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