





RF TEST REPORT

Applicant Huawei Technologies Co., Ltd.

FCC ID QISAMN-LX3B

Product Smart Phone

Model AMN-LX3X

Report No. R1904H0063-R6

Issue Date May 6, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2018)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Peng Tao

Peng las

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Summary of measurement results

Number	Summary of measurements of results	Clause in FCC rules	Verdict	
1	Maximum conducted output power	15.247(b)(3)	PASS	
2	6 dB bandwidth	15.247(a)(2)	PASS	
3	Power spectral density	15.247(e)	PASS	
4 Band Edge		15.247(d)	PASS	
5	Spurious RF Conducted Emissions	15.247(d)	PASS	
6	Unwanted Emissions	15.247(d),15.205,15.209	PASS	
7	Conducted Emissions	15.207	PASS	
Date of Testing: April 11, 2019~ April 24, 2019				

FCC RF Test Report



1. Test Laboratory

1.1. Notes of the test report

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

regulatory compliance of the applicable standards stated above.

1.2. Test facility

CNAS (accreditation number: L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation

Service for Conformity Assessment (CNAS).

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

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

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-10766)

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.





1.3. Testing Location

TA Technology (Shanghai) Co., Ltd. Company:

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City: Shanghai

Post code: 201201

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E-mail: xukai@ta-shanghai.com





2. General Description of Equipment under Test

Client Information

Applicant	Huawei Technologies Co., Ltd.		
Applicant address	Administration Building, Headquarters of Huawei Technologies Co.,		
Applicant address	Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.China.		
Manufacturer	Huawei Technologies Co., Ltd.		
Manufacturer address	Administration Building, Headquarters of Huawei Technologies Co.,		
Manufacturer address	Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.China.		

General information

EUT Description				
Model	AMN-LX3X			
SN:	BKLNU19330100307			
Hardware Version	HL1AMNMY			
Software Version	9.0.1.75(C900E31R1P2)			
Power Supply	Battery/AC adapter			
Antenna Type	Internal Antenna			
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)			
Antenna Gain	-1.00 dBi			
additional beamforming gain	NA			
Test Mode	802.11b 802.11g, 802.11n(HT20/HT40);			
Modulation Type	802.11b: DSSS; 802.11g/n(HT20/HT40): OFDM			
Max. Conducted Power	Wi-Fi 2.4G :17.24 dBm			
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz 802.11n(HT40): 2422 ~ 2452 MHz			
	EUT Accessory			
Adapter 1	Manufacturer: Huawei Technologies Co., Ltd. (SHENZHEN HUNTKEY ELECTRIC CO., LTD.) Model: HW-050100U01			
Adapter 2	Manufacturer: Huawei Technologies Co., Ltd. (HUIZHOU BYD ELECTRONIC CO., LTD.) Model: HW-050100U01			
Adapter 3	Manufacturer: Huawei Technologies Co., Ltd.			

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	(Dongguan Phitek Electronics Co., Ltd.)
	Model: HW-050100U01
	Manufacturer: Huawei Technologies Co., Ltd.
Battery 1	(SCUD (Fujian) Electronics Co., LTD.)
	Model: HB405979ECW
	Manufacturer: Huawei Technologies Co., Ltd.
Battery 2	(Desay Battery Electronic Co.,LTD)
	Model: HB405979ECW
	Manufacturer: Huawei Technologies Co., Ltd.
Battery 3	(Sunwoda Electronic Co.,LTD)
	Model: HB405979ECW
Fornbone 1	Manufacturer: Jiangxi Lianchuang Hongsheng Electronic Co. ,LTD.
Earphone 1	Model: MEND1532B528A02
Earphone 2	Manufacturer: FOXCONN INTERCONNECT TECHNOLOGY LIMITED
	Model: EPAB542-2WH05-DH
Earphone 3	Manufacturer: Boluo County Quancheng Electronic Co.,ltd.
	Model: 1293-3283-3.5MM-322
USB Cable 1	Manufacturer: HONGLIN TECHNOLOGY CO.,LTD.
USB Cable 1	Model: 130-26654
USB Cable 2	Manufacturer: Dongguan Ming Ji Electronics Co.,Ltd.
USB Cable 2	Model: 203-0786-0
USB Cable 3	Manufacturer: Luxshare Precision industry Co., Ltd.
USB Cable 3	Model: L99U2013-CS-H
USB Cable 4	Manufacturer: NingBo Broad Telecommunication Co., Ltd.
USD Cable 4	Model: WA0007

Note: The information of the EUT is declared by the manufacturer.

^{2.} There are more than one USB Cable, Battery, Earphone and Adapter, each one should be applied throughout the compliance test respectively, however, only the worst case (USB cable 1, Battery 1, Earphone3, Adapter 3) will be recorded in this report.





3. Applied Standards

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

Test standards

- FCC CFR47 Part 15C (2018) Radio Frequency Devices
- · ANSI C63.10 (2013)
- KDB 558074 D01 15.247 Meas Guidance v05r02



4. Test Configuration

Test Mode

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

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the others are vertical and horizontal. 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
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0



5. Test Case Results

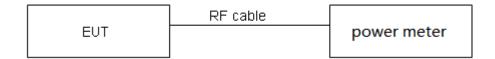
5.1. Maximum output power

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 Average Power meter with a known loss. The EUT is max power transmission with proper modulation. The signal transmission is continuous.



Limits

Rule Part 15.247 (b) (3) specifies that "For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz: 1 Watt."

Average Output Power	≤ 1W (30dBm)
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Measurement Uncertainty

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



Test Results

Single Antenna Power Index					
Packet Type	CH1	CH6	CH11		
802.11b	18	18	18		
802.11g	13	17	13		
802.11n HT20	13	16.5	13		
Packet Type	СНЗ	CH6	CH9		
802.11n HT40	14	14	11		

Band	T _{on} (ms)	T _(on+off) (ms)	Duty cycle	Duty cycle correction Factor(dB)	
802.11b	8.38	8.42	1.00	0.00	
802.11g	1.39	1.43	0.97	0.13	
802.11n HT20	1.30	1.34	0.97	0.14	
802.11n HT40	2.44	4.14	0.59	2.30	
Note: when Duty cycle>0.98, Duty cycle correction Factor not required.					

Network Standards	Carrier frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
	2412	17.24	17.24	30	PASS
802.11b	2437	17.21	17.21	30	PASS
	2462	17.22	17.22	30	PASS
	2412	12.03	12.16	30	PASS
802.11g	2437	15.86	15.99	30	PASS
	2462	12.11	12.24	30	PASS
	2412	12.07	12.21	30	PASS
802.11n HT20	2437	15.48	15.62	30	PASS
11120	2462	12.01	12.15	30	PASS
	2422	10.81	13.11	30	PASS
802.11n HT40	2437	10.62	12.92	30	PASS
11140	2452	7.83	10.13	30	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor



5.2. 6dB Bandwidth

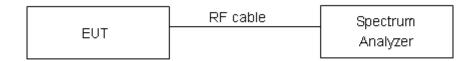
Ambient condition

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. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer. Dector=Peak, Trace mode=max hold.

Test Setup



Limits

Rule Part 15.247 (a) (2) specifies that "Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz."

minimum 6 dB bandwidth	≥ 500 kHz
minimani o ab banawati	= 500 KHZ

Measurement Uncertainty

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



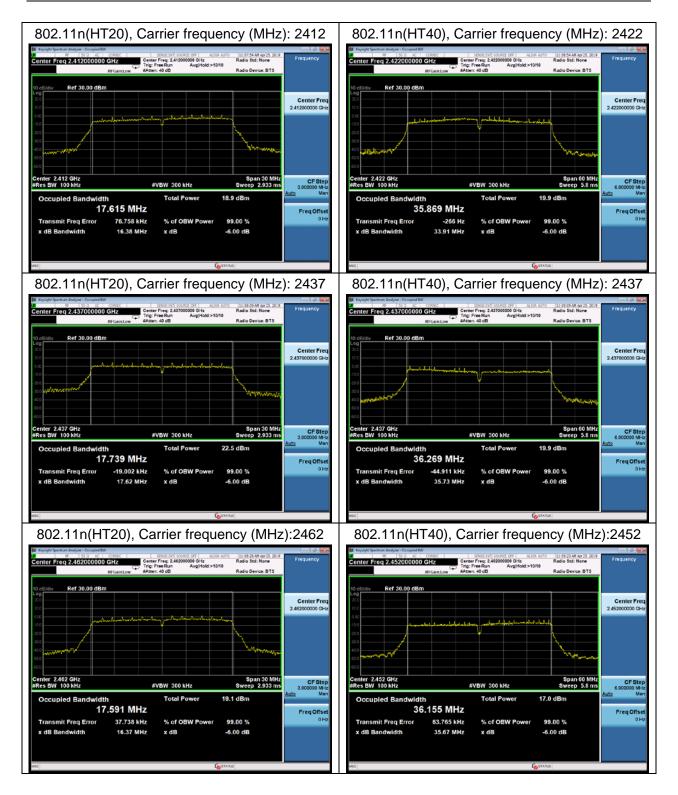
Test Results:

Network Standards	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
	2412	12.687	8.086	500	PASS
802.11b	2437	13.093	8.064	500	PASS
	2462	12.715	8.564	500	PASS
	2412	16.452	15.78	500	PASS
802.11g	2437	16.543	16.36	500	PASS
	2462	16.417	15.72	500	PASS
	2412	17.615	16.38	500	PASS
802.11n HT20	2437	17.739	17.62	500	PASS
11120	2462	17.591	16.37	500	PASS
	2422	35.869	33.91	500	PASS
802.11n HT40	2437	36.269	35.73	500	PASS
	2452	36.155	35.67	500	PASS











5.3. Band Edge

Ambient condition

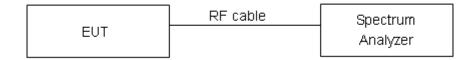
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 15.247(d) specifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits." If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB."

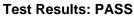
Measurement Uncertainty

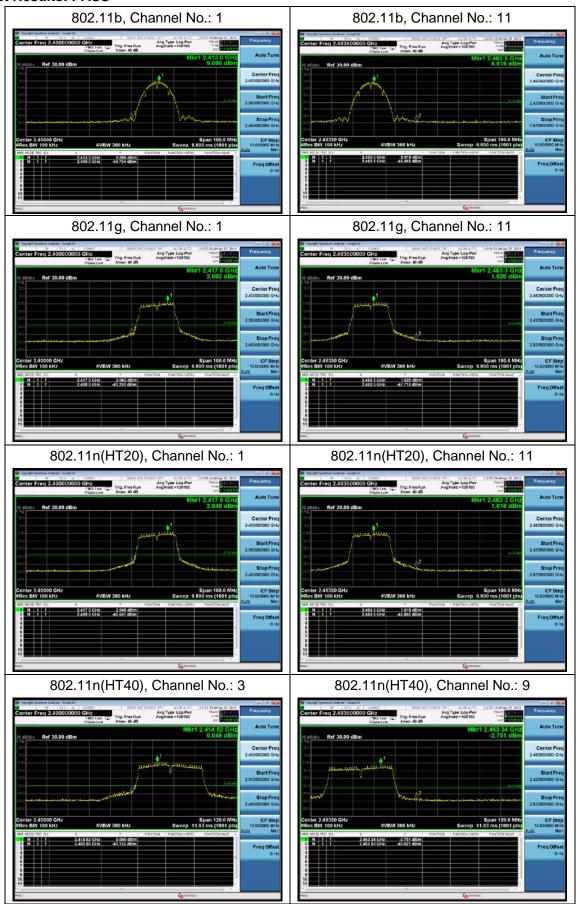
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB

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5.4. Power Spectral Density

Ambient condition

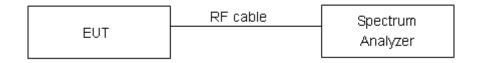
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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Method of Measurement

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss. The EUT is max power transmission with proper modulation. Method AVGPSD-2 in KDB558074 D01 was used for this test.

Test setup



Limits

Rule Part 15.247(e) specifies that" For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. "

Limits	≤ 8 dBm / 3kHz
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Measurement Uncertainty

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



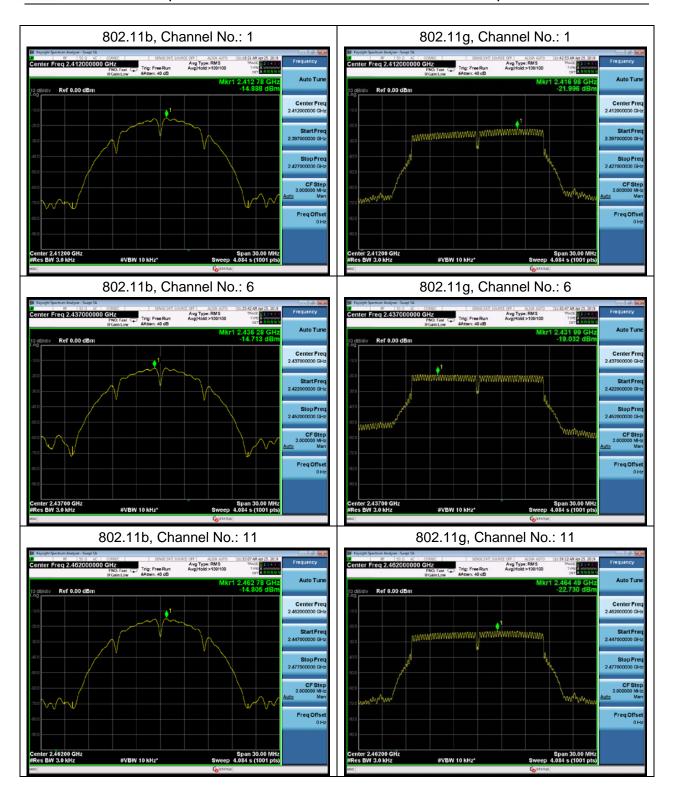


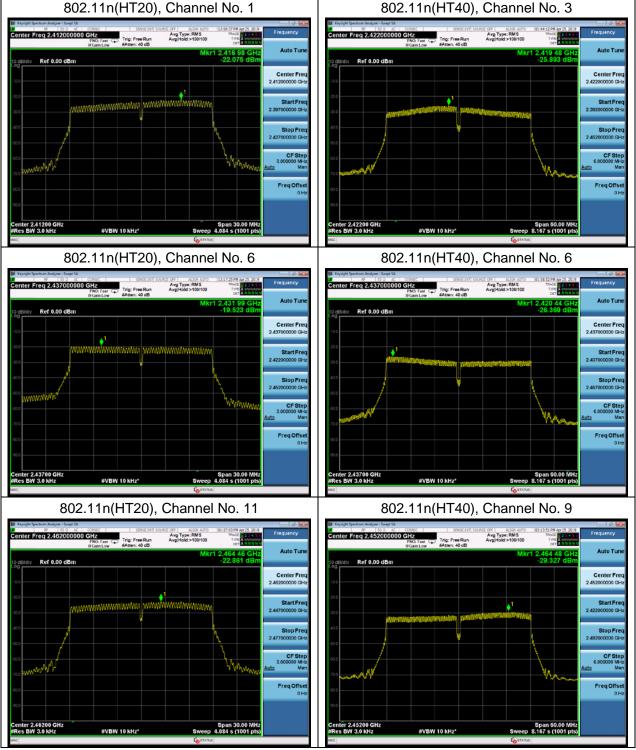
Test Results:

Network Standards	Channel Number	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
	1	-14.89	-14.89	8	PASS
802.11b	6	-14.71	-14.71	8	PASS
	11	-14.81	-14.81	8	PASS
	1	-22.00	-21.87	8	PASS
802.11g	6	-19.03	-18.90	8	PASS
	11	-22.73	-22.60	8	PASS
	1	-22.08	-21.94	8	PASS
802.11n HT20	6	-19.52	-19.39	8	PASS
	11	-22.86	-22.72	8	PASS
	3	-25.89	-23.60	8	PASS
802.11n HT40	6	-26.37	-24.07	8	PASS
	9	-29.33	-27.03	8	PASS

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









5.5. Spurious RF Conducted Emissions

Ambient condition

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

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Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) pacifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB."

Network Standards	Carrier frequency (MHz)	Reference value (dBm)	Limit
	2412	8.74	-21.26
802.11b	2437	9.02	-20.98
	2462	8.91	-21.09
	2412	1.75	-28.26
802.11g	2437	4.56	-25.44
	2462	1.51	-28.49
000 44 =	2412	2.19	-27.81
802.11n HT20	2437	4.03	-25.97
П120	2462	1.76	-28.24
000 44 =	2422	1.15	-28.85
802.11n HT40	2437	0.19	-29.81
11140	2452	-2.87	-32.87

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Measurement Uncertainty

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

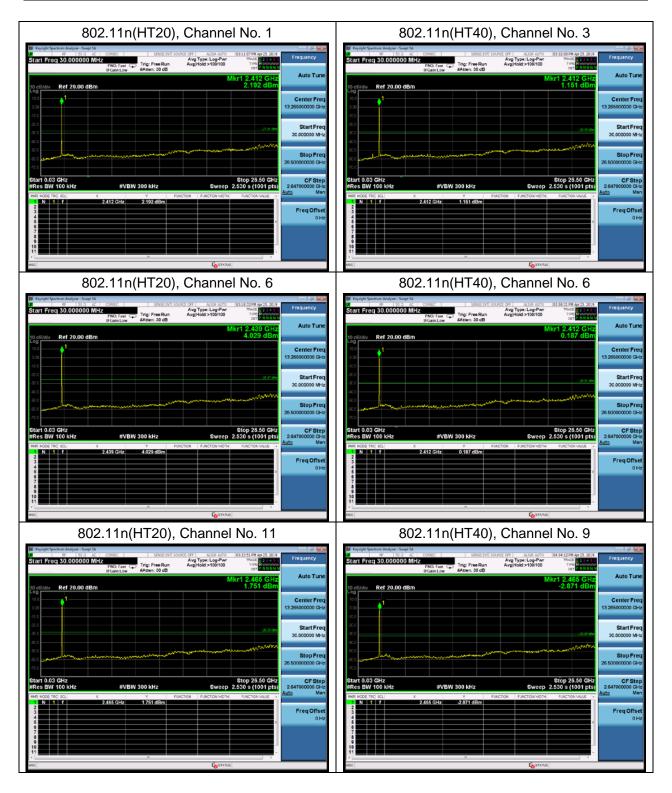
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB



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Test Results:







FCC RF Test Report

5.6. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

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 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. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10-2013.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

- I) Peak emission levels are measured by setting the instrument as follows:
- 1) RBW = 1 MHz.
- 2) VBW ≥ [3 × RBW]
- 3) Detector = peak.
- 4) Sweep time = auto.
- 5) Trace mode = max hold.
- 6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately 1 / D, where D is the duty cycle.
- II) Average emission levels are measured by setting the instrument as follows:
- a) RBW = 1 MHz.
- b) $VBW \ge [3 \times RBW]$.
- c) Detector = RMS (power averaging), if [span / (# of points in sweeps]RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage



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averaging. Log or dB averaging shall not be used.)

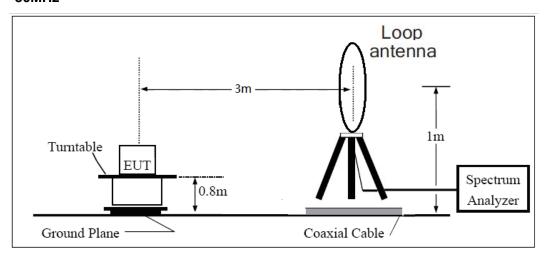
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

The test is in transmitting mode.

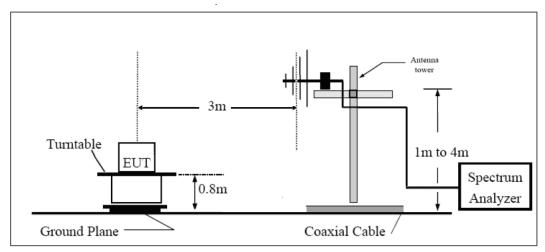


Test setup

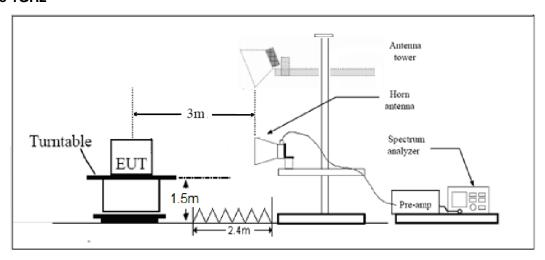
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m



Limits

Rule Part 15.247(d) specifies that "In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))."

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Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009-0.490	2400/F(kHz)	1
0.490-1.705	24000/F(kHz)	1
1.705–30.0	30	1
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

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

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				



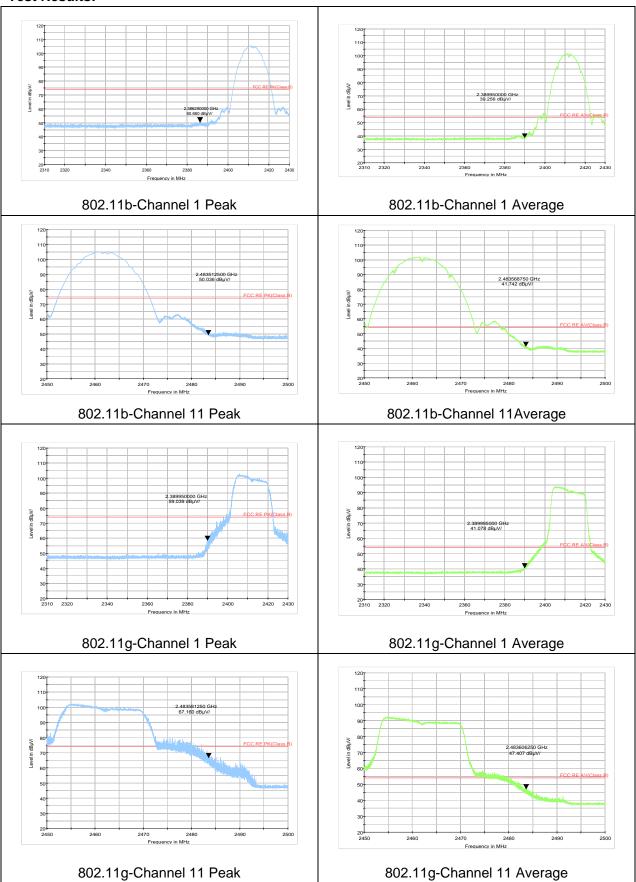
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Measurement Uncertainty

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

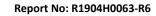
Frequency	Uncertainty		
9KHz-30MHz	3.55 dB		
30MHz-200MHz	4.02 dB		
200MHz-1GHz	3.28 dB		
1-18GHz	3.70 dB		
18-26.5GHz	5.78 dB		

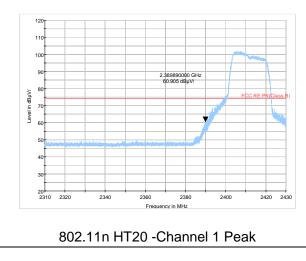


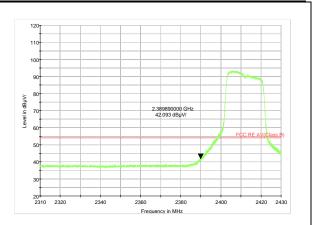




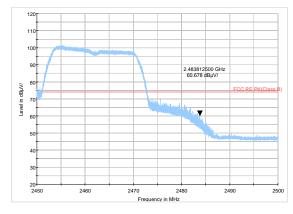
FCC RF Test Report

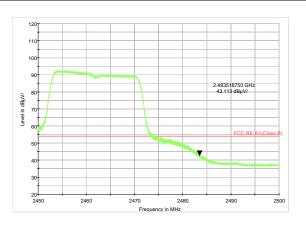






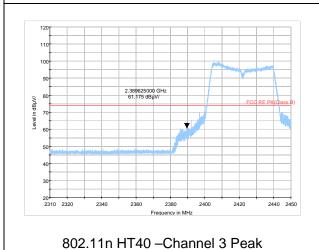


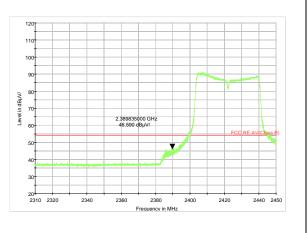




802.11n HT20 -Channel 11 Peak

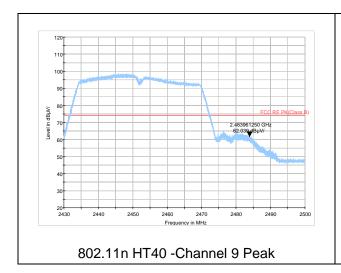
802.11n HT20 -Channel 11 Average

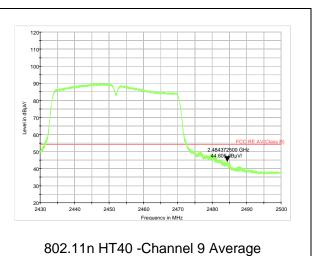




802.11n HT40 -Channel 3 Average









Result of RE

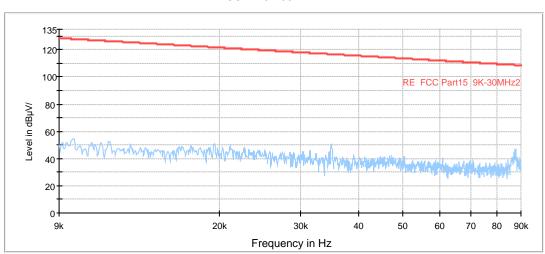
Test result

The following graphs display the maximum values of horizontal and vertical by software. For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11b CH1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

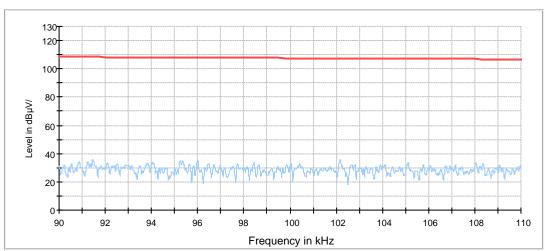
Continuous TX mode:

FCC RE 9K-90KHz AV



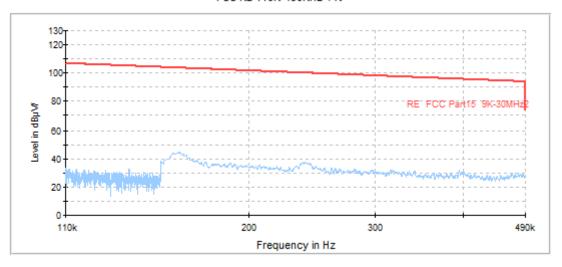
Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



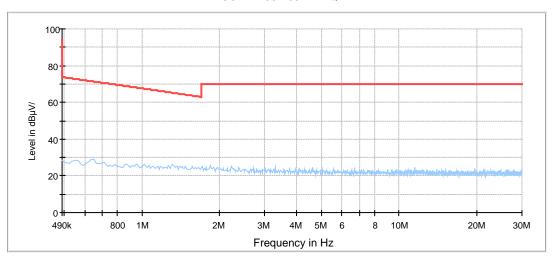
Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV



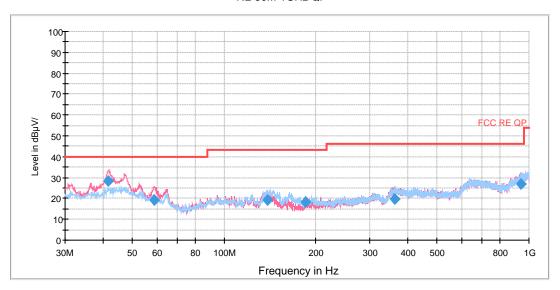
Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz

RE 30M-1GHz QP



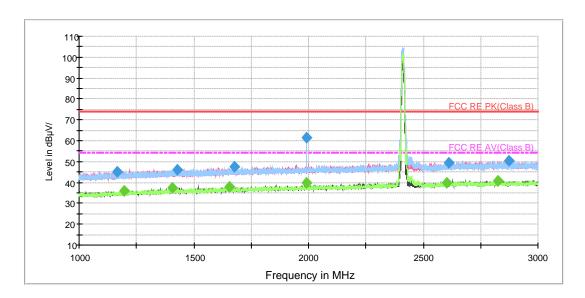
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
41.632658	28.6	100.0	V	76.0	-4.4	11.4	40.0
58.941978	19.0	100.0	V	192.0	-8.3	21.0	40.0
138.449612	19.1	175.0	Н	89.0	-14.2	24.4	43.5
184.249425	18.2	100.0	V	4.0	-13.0	25.3	43.5
362.987500	19.8	175.0	Н	74.0	-5.5	26.2	46.0
943.479000	26.8	100.0	Н	252.0	2.0	19.2	46.0

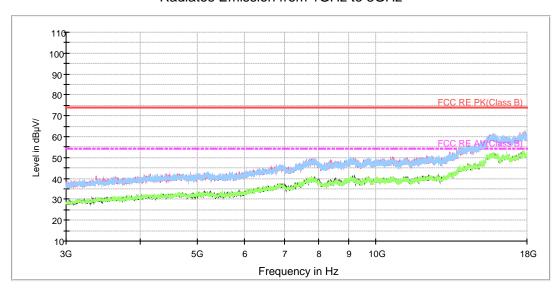
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

^{2.} Margin = Limit - Quasi-Peak

802.11b CH1



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

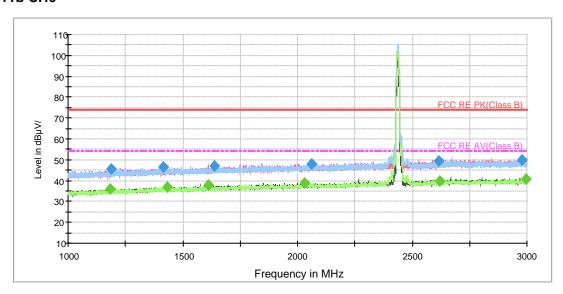
Frequency Peak Height Azimuth Correct Margin Limit **Polarization** Factor (dB) (dBuV/m) (MHz) (dBuV/m) (cm) (deg) (dB) 1164.875000 45.3 200.0 V 38.0 0.0 28.7 74.0 1428.875000 46.1 100.0 V 0.0 1.5 27.9 74.0 ٧ 1675.000000 47.3 100.0 303.0 2.2 26.7 74.0 1992.875000 61.5 100.0 Н 0.0 3.5 12.5 74.0 V 2609.375000 49.5 100.0 317.0 6.0 24.5 74.0 V 2873.375000 50.4 100.0 93.0 7.0 23.6 74.0

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

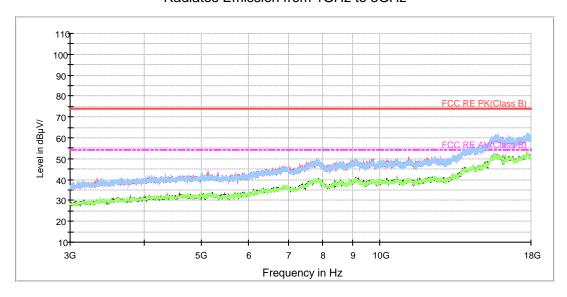
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.500000	35.7	100.0	Н	125.0	0.1	18.3	54.0
1404.875000	37.3	100.0	V	107.0	1.3	16.7	54.0
1653.625000	38.0	200.0	V	25.0	2.2	16.0	54.0
1992.875000	39.8	100.0	Н	0.0	3.5	14.2	54.0
2603.500000	39.7	100.0	Н	97.0	6.0	14.3	54.0
2824.500000	40.9	200.0	V	263.0	6.9	13.1	54.0

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

802.11b CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

49.9

100.0

2976.500000

Frequency Peak Height Azimuth Correct Margin Limit **Polarization** (MHz) (dBuV/m) Factor (dB) (dBuV/m) (cm) (deg) (dB) 1187.125000 45.4 200.0 V 37.0 0.2 28.6 74.0 1415.250000 46.3 200.0 V 281.0 1.4 27.7 74.0 ٧ 1636.000000 47.0 200.0 359.0 2.1 27.0 74.0 ٧ 3.7 2063.250000 48.1 100.0 0.0 25.9 74.0 V 2617.875000 49.5 200.0 63.0 6.1 24.5 74.0

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

226.0

7.4

V

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1182.875000	36.1	200.0	Н	0.0	0.2	17.9	54.0
1434.125000	36.9	100.0	Н	356.0	1.5	17.1	54.0
1609.250000	38.0	100.0	Н	124.0	1.9	16.0	54.0
2032.125000	38.9	200.0	V	2.0	3.6	15.1	54.0
2619.875000	39.8	100.0	Н	172.0	6.1	14.2	54.0
2997.125000	40.9	200.0	Н	275.0	7.5	13.1	54.0

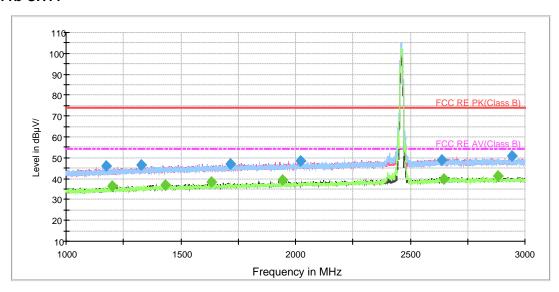
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Report No: R1904H0063-R6

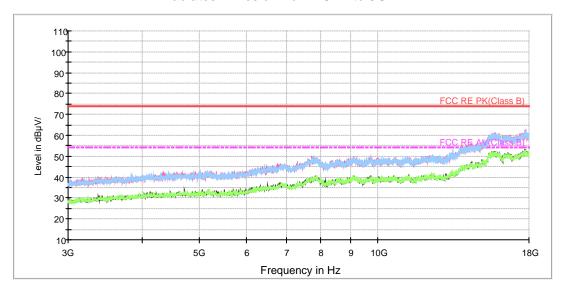
24.1

74.0

802.11b CH11



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz



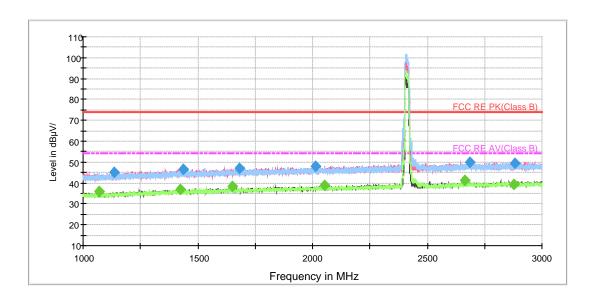
Frequency Peak Height Azimuth Correct Margin Limit **Polarization** Factor (dB) (dBuV/m) (MHz) (dBuV/m) (cm) (deg) (dB) 1175.250000 45.9 100.0 V 308.0 0.0 28.1 74.0 1327.875000 46.4 100.0 V 337.0 8.0 27.6 74.0 1714.750000 46.9 200.0 Н 212.0 2.3 27.1 74.0 ٧ 2021.500000 48.3 100.0 71.0 3.6 25.7 74.0 V 2637.500000 48.8 200.0 163.0 6.2 25.2 74.0 V 2944.750000 50.6 100.0 226.0 7.2 23.4 74.0

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

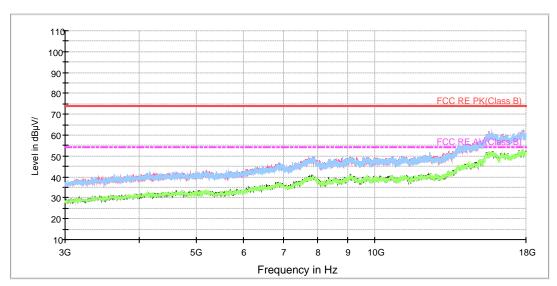
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.125000	36.4	100.0	V	261.0	0.2	17.6	54.0
1431.500000	37.0	100.0	V	294.0	1.5	17.0	54.0
1633.875000	38.2	200.0	V	82.0	2.1	15.8	54.0
1942.625000	39.2	100.0	Н	239.0	3.3	14.8	54.0
2645.875000	39.9	100.0	Н	32.0	6.3	14.1	54.0
2881.875000	41.2	200.0	V	281.0	7.0	12.8	54.0

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

802.11g CH1



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

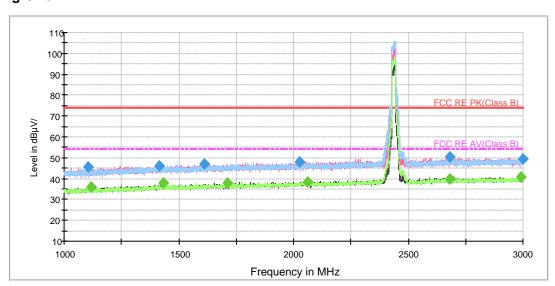
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1134.750000	45.1	100.0	V	353.0	-0.2	28.9	74.0
1434.625000	46.7	100.0	Н	54.0	1.5	27.3	74.0
1679.125000	47.2	100.0	Н	88.0	2.2	26.8	74.0
2014.250000	47.9	100.0	Н	239.0	3.6	26.1	74.0
2685.875000	50.0	100.0	V	339.0	6.4	24.0	74.0
2880.375000	49.4	200.0	V	253.0	7.0	24.6	74.0

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

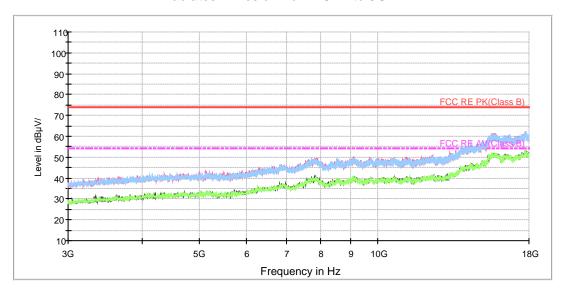
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1069.625000	35.8	200.0	Н	110.0	-0.8	18.2	54.0
1425.000000	37.0	200.0	V	175.0	1.4	17.0	54.0
1652.375000	38.3	200.0	Н	186.0	2.2	15.7	54.0
2051.625000	38.9	100.0	Н	231.0	3.7	15.1	54.0
2662.125000	41.0	100.0	V	69.0	6.3	13.0	54.0
2879.875000	39.4	200.0	V	0.0	7.0	14.6	54.0

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

802.11g CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz



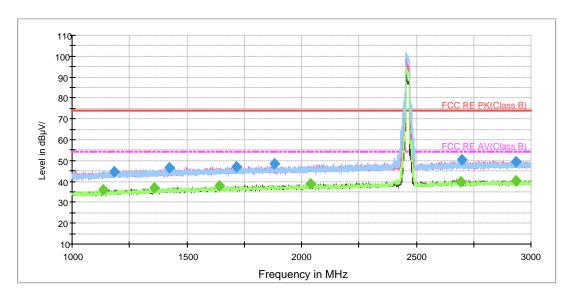
Frequency Peak Height Azimuth Correct Margin Limit **Polarization** Factor (dB) (dBuV/m) (MHz) (dBuV/m) (cm) (deg) (dB) 1104.625000 45.6 100.0 Η 35.0 -0.5 28.4 74.0 1416.500000 46.2 100.0 V 279.0 1.4 27.8 74.0 ٧ 1611.250000 47.1 100.0 212.0 2.0 26.9 74.0 2027.750000 47.9 100.0 Н 332.0 3.6 26.1 74.0 V 2682.625000 50.2 200.0 198.0 6.4 23.8 74.0 V 2998.375000 49.5 200.0 25.0 7.5 24.5 74.0

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

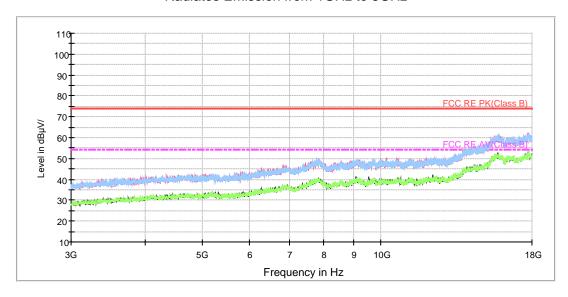
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1118.625000	35.9	100.0	V	335.0	-0.4	18.1	54.0
1434.250000	37.6	100.0	V	102.0	1.5	16.4	54.0
1712.500000	38.0	100.0	V	212.0	2.3	16.0	54.0
2060.000000	38.5	100.0	V	335.0	3.7	15.5	54.0
2681.375000	40.0	200.0	Н	355.0	6.4	14.0	54.0
2993.375000	40.8	100.0	Н	110.0	7.5	13.2	54.0

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

802.11g CH11



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

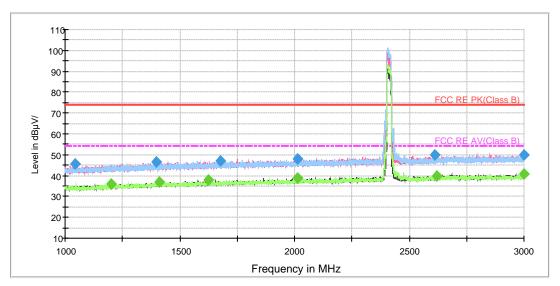
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.250000	44.8	200.0	V	32.0	0.2	29.2	74.0
1425.250000	46.6	100.0	Н	25.0	1.4	27.4	74.0
1715.500000	47.1	200.0	Н	255.0	2.3	26.9	74.0
1883.375000	48.4	200.0	Н	83.0	3.0	25.6	74.0
2698.750000	50.2	100.0	V	228.0	6.5	23.8	74.0
2935.500000	49.3	200.0	V	5.0	7.2	24.7	74.0

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

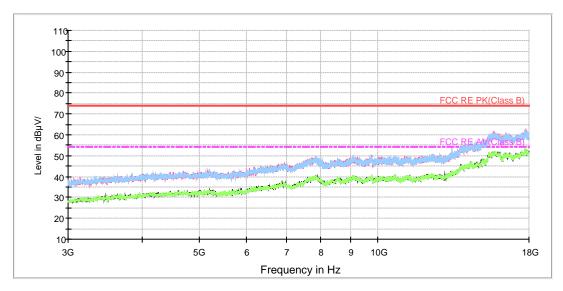
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1134.875000	36.0	200.0	Н	234.0	-0.2	18.0	54.0
1359.875000	37.0	200.0	Н	214.0	0.9	17.0	54.0
1642.375000	37.9	100.0	V	0.0	2.2	16.1	54.0
2040.750000	39.0	100.0	V	310.0	3.7	15.0	54.0
2692.625000	39.8	200.0	Н	0.0	6.5	14.2	54.0
2934.000000	40.5	200.0	V	0.0	7.1	13.5	54.0

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

802.11n (HT20) CH1



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

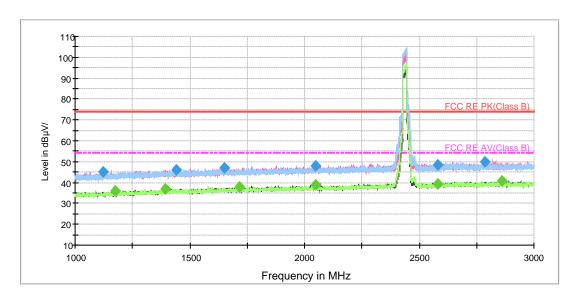
Frequency Peak Height Azimuth Correct Margin Limit **Polarization** Factor (dB) (dBuV/m) (MHz) (dBuV/m) (cm) (deg) (dB) 1043.500000 45.5 100.0 Н 68.0 -1.0 28.5 74.0 1397.125000 46.3 100.0 Н 247.0 1.2 27.7 74.0 ٧ 1676.750000 47.2 100.0 322.0 2.2 26.8 74.0 2012.500000 48.0 200.0 Н 277.0 3.6 26.0 74.0 V 2612.625000 50.1 100.0 349.0 6.0 23.9 74.0 2997.875000 49.7 200.0 Н 263.0 7.5 24.3 74.0

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

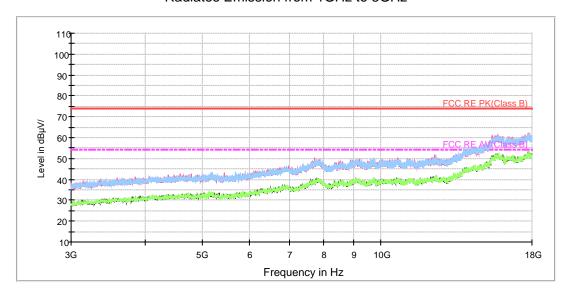
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.625000	35.8	200.0	Н	331.0	0.2	18.2	54.0
1412.125000	36.8	200.0	V	226.0	1.3	17.2	54.0
1623.000000	37.7	100.0	V	82.0	2.0	16.3	54.0
2011.000000	38.8	100.0	V	152.0	3.6	15.2	54.0
2619.875000	39.9	200.0	V	170.0	6.1	14.1	54.0
2998.750000	40.7	100.0	Н	326.0	7.5	13.3	54.0

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

802.11n (HT20) CH6



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

50.1

100.0

2786.375000

Frequency Peak Height Azimuth Correct Margin Limit **Polarization** (MHz) (dBuV/m) Factor (dB) (dBuV/m) (cm) (deg) (dB) 1121.375000 45.1 100.0 V 197.0 -0.3 28.9 74 1439.250000 46.2 100.0 V 211.0 1.4 27.8 74 1648.875000 47.0 100.0 Н 0.0 2.2 27.0 74 3.7 74 2049.000000 48.0 200.0 Н 285.0 26.0 2581.750000 48.3 100.0 Н 40.0 5.9 25.7 74

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

0.0

6.8

V

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1175.125000	36.1	100.0	V	183.0	0.0	17.9	54
1391.125000	36.9	100.0	Н	174.0	1.2	17.1	54
1714.875000	37.8	100.0	V	334.0	2.3	16.2	54
2046.125000	38.8	200.0	V	0.0	3.7	15.2	54
2582.125000	39.4	200.0	V	330.0	5.9	14.6	54
2861.875000	40.7	100.0	V	307.0	7.0	13.3	54

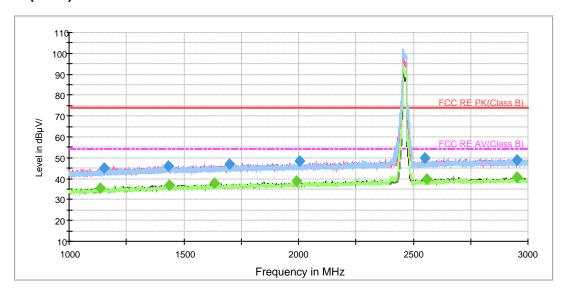
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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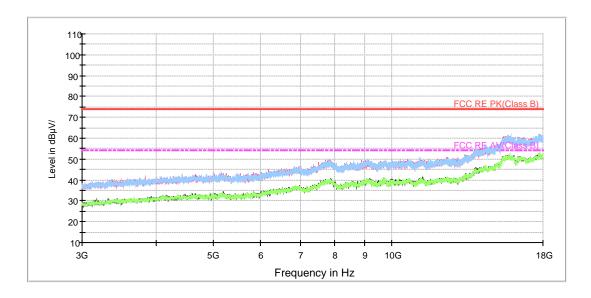
23.9

74

802.11n (HT20) CH11



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

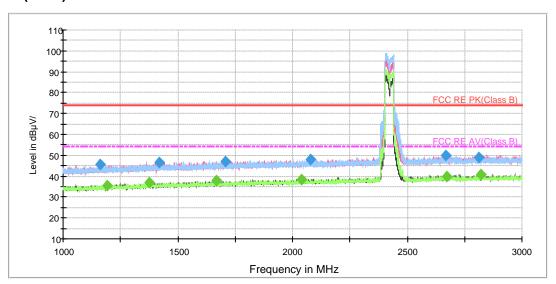
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1151.750000	45.2	100.0	Н	180.0	-0.1	28.8	74.0
1431.000000	46.2	200.0	V	193.0	1.5	27.8	74.0
1700.125000	46.9	100.0	Н	0.0	2.3	27.1	74.0
2002.750000	48.3	100.0	Н	58.0	3.5	25.7	74.0
2552.250000	50.0	100.0	V	159.0	5.7	24.0	74.0
2951.000000	48.9	100.0	V	88.0	7.2	25.1	74.0

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

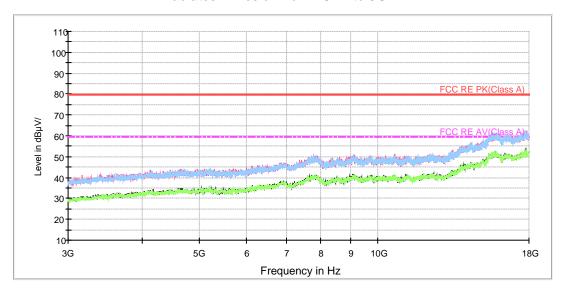
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1136.500000	35.7	200.0	V	145.0	-0.2	18.3	54.0
1435.750000	36.8	100.0	Н	215.0	1.5	17.2	54.0
1632.750000	37.8	200.0	V	4.0	2.1	16.2	54.0
1990.000000	38.7	200.0	V	64.0	3.5	15.3	54.0
2559.750000	39.6	200.0	V	97.0	5.7	14.4	54.0
2951.250000	40.9	100.0	Н	194.0	7.2	13.1	54.0

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

802.11n (HT40) CH3



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

48.9

200.0

2814.375000

Frequency Peak Height Azimuth Correct Margin Limit **Polarization** Factor (dB) (dBuV/m) (MHz) (dBuV/m) (cm) (deg) (dB) 1163.125000 45.5 100.0 V 111.0 -0.1 28.5 74.0 1418.875000 46.5 200.0 V 4.0 1.4 27.5 74.0 ٧ 1708.500000 47.1 200.0 11.0 2.3 26.9 74.0 ٧ 3.7 2078.625000 48.1 200.0 357.0 25.9 74.0 2666.625000 50.0 200.0 Н 217.0 6.4 24.0 74.0

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

190.0

6.9

V

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1193.250000	35.7	200.0	Н	68.0	0.2	18.3	54.0
1374.250000	37.0	100.0	Н	104.0	1.0	17.0	54.0
1669.000000	37.7	100.0	V	200.0	2.2	16.3	54.0
2040.375000	38.4	200.0	Н	124.0	3.7	15.6	54.0
2671.500000	39.8	100.0	V	15.0	6.4	14.2	54.0
2822.375000	40.8	100.0	V	241.0	6.9	13.2	54.0

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

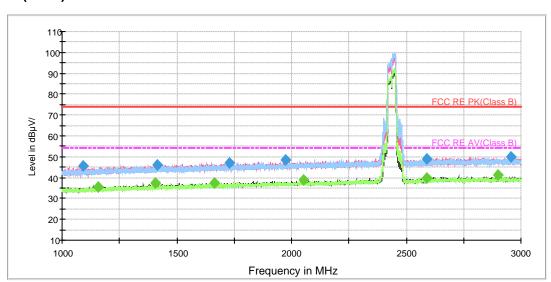
Report No: R1904H0063-R6

25.1

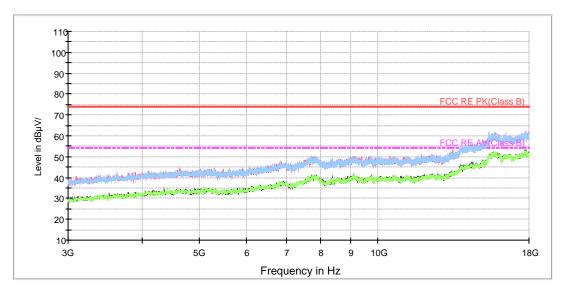
74.0



802.11n (HT40) CH6



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz



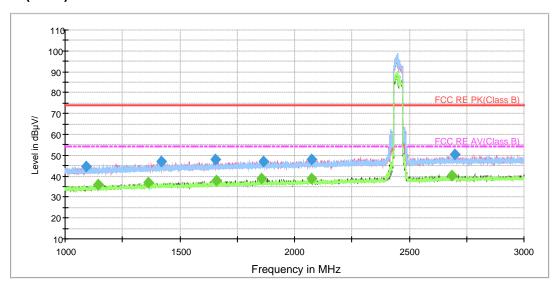
Frequency Peak Height Azimuth Correct Margin Limit **Polarization** (MHz) Factor (dB) (dBuV/m) (dBuV/m) (cm) (deg) (dB) 1091.625000 45.6 200.0 V 151.0 -0.6 28.4 74 1414.875000 46.0 200.0 V 124.0 1.4 28.0 74 ٧ 1730.125000 46.9 200.0 131.0 2.4 27.1 74 3.4 74 1972.000000 48.3 200.0 Н 49.0 25.7 V 2589.875000 48.8 100.0 204.0 6.0 25.2 74 V 2955.625000 50.0 200.0 226.0 7.3 24.0 74

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

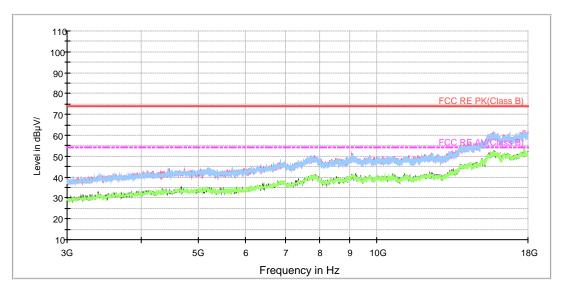
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1156.500000	35.7	200.0	V	45.0	-0.1	18.3	54
1404.750000	37.3	100.0	Н	178.0	1.3	16.7	54
1661.750000	37.6	200.0	V	331.0	2.2	16.4	54
2050.500000	38.8	200.0	V	138.0	3.7	15.2	54
2589.625000	39.7	200.0	Н	329.0	6.0	14.3	54
2898.250000	41.1	200.0	Н	151.0	7.0	12.9	54

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

802.11n (HT40) CH9



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1089.625000	44.7	100.0	Н	182.0	-0.6	29.3	74
1419.375000	47.1	200.0	V	2.0	1.4	26.9	74
1656.125000	47.9	200.0	V	62.0	2.2	26.1	74
1865.125000	47.2	100.0	Н	231.0	3.0	26.8	74
2074.250000	47.9	100.0	Н	343.0	3.7	26.1	74
2697.875000	50.3	100.0	Н	210.0	6.5	23.7	74

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

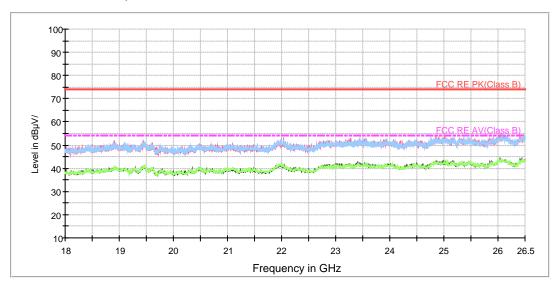
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1145.375000	36.0	200.0	V	49.0	-0.1	18.0	54
1364.125000	36.7	200.0	V	68.0	1.0	17.3	54
1657.750000	38.0	100.0	V	17.0	2.2	16.0	54
1854.125000	38.6	200.0	V	0.0	2.9	15.4	54
2074.500000	38.7	200.0	Н	318.0	3.7	15.3	54
2686.000000	40.4	200.0	Н	0.0	6.4	13.6	54

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



FCC RF Test Report No: R1904H0063-R6

During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11b CH1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz



5.7. Conducted Emission

Ambient condition

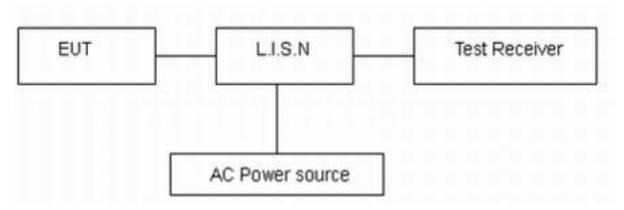
Temperature	Relative humidity	Pressure		
23°C ~25°C	45%~50%	101.5kPa		

Methods of Measurement

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

The test is in transmitting mode.

Test Setup



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

Limits

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

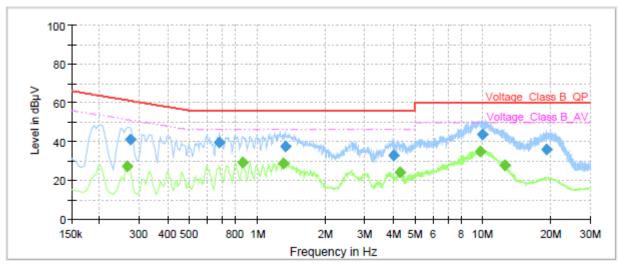
Measurement Uncertainty

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



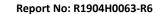
Test Results:

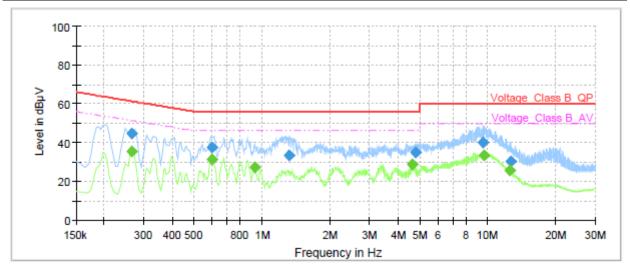
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes (WIFI 2.4G) with all channels, 802.11b, Channel 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.26		27.29	51.28	23.99	1000.0	9.000	L1	ON	19.15
0.27	40.86		61.00	20.14	1000.0	9.000	L1	ON	19.14
0.68	39.55		56.00	16.45	1000.0	9.000	L1	ON	19.28
0.86		29.15	46.00	16.85	1000.0	9.000	L1	ON	19.24
1.31		28.64	46.00	17.36	1000.0	9.000	L1	ON	19.22
1.33	37.27		56.00	18.73	1000.0	9.000	L1	ON	19.21
4.00	33.07		56.00	22.93	1000.0	9.000	L1	ON	19.04
4.29		24.31	46.00	21.69	1000.0	9.000	L1	ON	19.10
9.70		35.04	50.00	14.96	1000.0	9.000	L1	ON	19.36
9.91	43.57		60.00	16.43	1000.0	9.000	L1	ON	19.39
12.46		27.47	50.00	22.53	1000.0	9.000	L1	ON	19.44
19.18	35.84		60.00	24.16	1000.0	9.000	L1	ON	19.63

Conducted Emission from 150 KHz to 30 MHz





Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.26		35.48	51.28	15.80	1000.0	9.000	N	ON	19.15
0.26	44.58		61.28	16.70	1000.0	9.000	N	ON	19.15
0.60		31.52	46.00	14.48	1000.0	9.000	N	ON	19.27
0.60	37.54		56.00	18.46	1000.0	9.000	N	ON	19.27
0.93		27.03	46.00	18.97	1000.0	9.000	N	ON	19.24
1.32	33.51		56.00	22.49	1000.0	9.000	N	ON	19.21
4.64		28.79	46.00	17.21	1000.0	9.000	N	ON	19.10
4.81	34.89		56.00	21.11	1000.0	9.000	N	ON	19.07
9.55	39.97		60.00	20.03	1000.0	9.000	N	ON	19.36
9.67		33.50	50.00	16.50	1000.0	9.000	N	ON	19.37
12.47		25.47	50.00	24.53	1000.0	9.000	N	ON	19.42
12.62	30.20		60.00	29.80	1000.0	9.000	N	ON	19.44

Conducted Emission from 150 KHz to 30 MHz



6. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	100815	2018-12-16	2019-12-15
EMI Test Receiver	R&S	ESCI	100948	2018-05-20	2019-05-19
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2017-09-26	2019-09-25
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-201	2017-11-18	2019-11-17
Double Ridged Waveguide Horn Antenna	R&S	HF907	100126	2018-07-07	2020-07-06
Standard Gain Horn	ETS-Lindgren	3160-09	00102643	2018-06-20	2020-06-19
EMI Test Receiver	R&S	ESR	101667	2018-05-20	2019-05-19
LISN	R&S	ENV216	101171	2016-12-16	2019-12-15
Spectrum Analyzer	Agilent	N9010A	MY47191109	2018-05-20	2019-05-19
Power Meter	R&S	NRP	104306	2018-05-20	2019-05-19
Power Sensor	R&S	NRP-Z21	104799	2018-05-20	2019-05-19
20dB Attenuator	Star River Highlight	UCL-TS2S- 20	18013001	2018-12-16	2019-12-15
RF Cable	Agilent	SMA 15cm	0001	2019-03-15	2019-06-14
Software	R&S	EMC32	9.26.0	/	/

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