



RF TEST REPORT

Applicant	MobiWire SAS
FCC ID	QPN-DAKOTA
Brand	MobiWire
Product	2G Feature phone
Model	Dakota
Report No.	RXA1603-0036RF02
Issue Date	April 22, 2016

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2014)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Handwritten signature of Lingling Kang in black ink.

Reviewed by: Lingling Kang/ Manager

Handwritten signature of Kai Xu in black ink.

Approved by: Kai Xu/ Director



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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	15.247(b)(3)	PASS
2	6 dB bandwidth	15.247(a)(2)	PASS
3	Maximum power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Radiated Emissions in restricted frequency bands	15.247(d),15.205,15.209	PASS
7	Radiated Emissions	15.247(d),15.205,15.209	PASS
8	Conducted Emissions	15.207	PASS
Date of Testing: March 15, 2016~ April 11, 2016			

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.



1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City: Shanghai
Post code: 201201
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Contact: Xu Kai
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Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

Client Information

Applicant	MobiWire SAS
Applicant address	79 AVENUE FRANCOIS ARAGO 92017 NANTERRE CEDEX France.
Manufacturer	MOBIWIRE MOBILES (NINGBO) CO.,LTD
Manufacturer address	No.999,Dacheng East Road,Fenghua City,Zhejiang

Accessory Equipment Details

Name	Model	Manufacturer	Capacity	S/N
Battery	178102335 (NL11)	Ningbo Veken Battery Co., Ltd.	1400mAh	VK1602000484

General information

Model:	Dakota
IMEI:	359816061158826
Hardware Version:	V01
Software Version:	V01
Power Supply:	Battery/AC adapter
Antenna Type:	Internal Antenna
Test Mode:	802.11b 802.11g, 802.11n(HT20);
Modulation Type:	802.11b: DSSS; 802.11g/n(HT20): OFDM
Max. Conducted Power	19.12dBm
Operating Frequency Range(s)	2400 ~ 2483.5 MHz
<p>Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.</p>	



3. Applied Standards

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

FCC CFR47 Part 15C (2015) Radio Frequency Devices

ANSI C63.10 (2013)

KDB 558074 D01 DTS Meas Guidance v03r04

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
802.11b	11Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

5. Test Case Results

5.1. Peak Power Output –Conducted

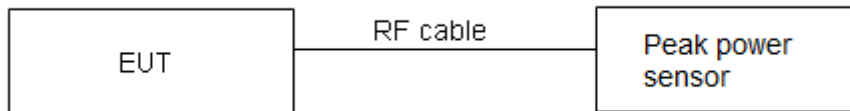
Ambient condition

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 sensor with a known loss. The EUT is max power transmission with proper modulation. We use Maximum Peak Conducted Output Power Level Method in KDB 558074 D01 for this test.

Test Setup



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."

Peak Output Power	$\leq 1W$ (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**

Network Standards	Carrier frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Conclusion
802.11b	2412	15.96	30	PASS
	2437	17.58	30	PASS
	2462	19.12	30	PASS
802.11g	2412	12.74	30	PASS
	2437	14.76	30	PASS
	2462	16.63	30	PASS
802.11n HT20	2412	10.36	30	PASS
	2437	12.21	30	PASS
	2462	13.98	30	PASS

5.2. 6dB Bandwidth

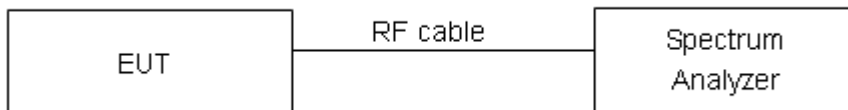
Ambient condition

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.

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
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Measurement Uncertainty

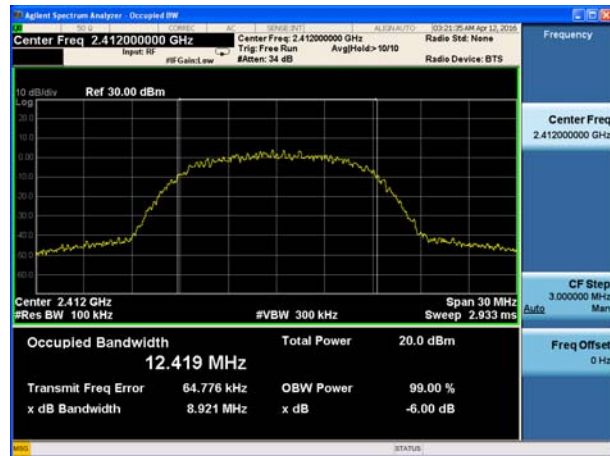
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

**Test Results:**

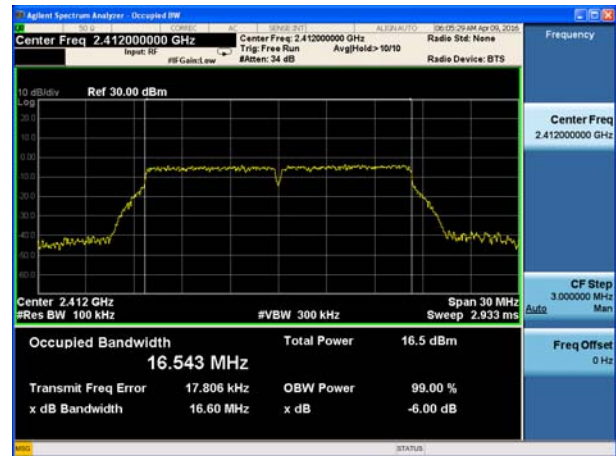
Network Standards	Carrier frequency (MHz)	Minimum 6 dB bandwidth (MHz)	Limit(kHz)	Conclusion
802.11b	2412	8.921	500	PASS
	2437	8.921	500	PASS
	2462	8.923	500	PASS
802.11g	2412	16.60	500	PASS
	2437	16.61	500	PASS
	2462	16.60	500	PASS
802.11n HT20	2412	17.81	500	PASS
	2437	17.83	500	PASS
	2462	17.84	500	PASS



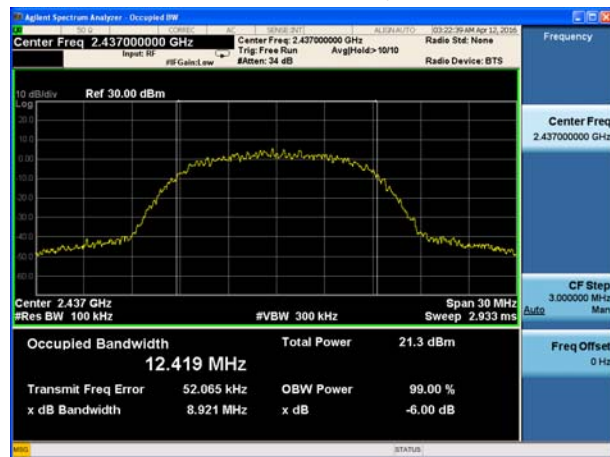
802.11b, Carrier frequency (MHz): 2412



802.11g, Carrier frequency (MHz): 2412



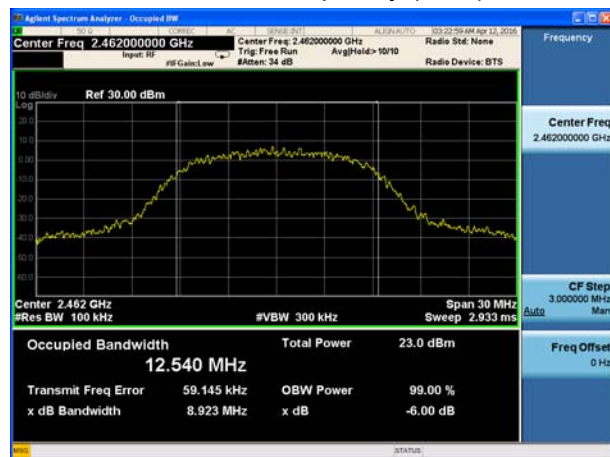
802.11b, Carrier frequency (MHz): 2437



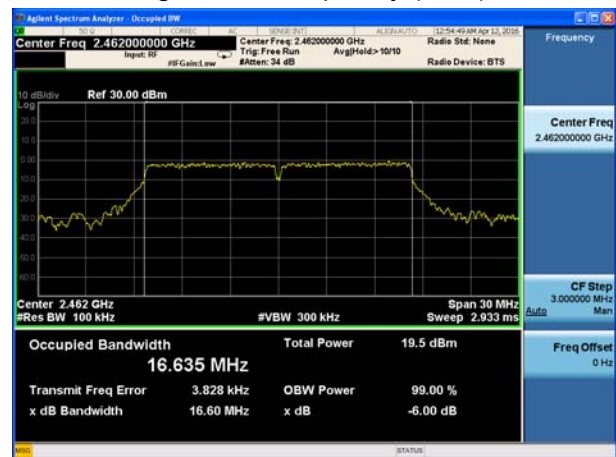
802.11g, Carrier frequency (MHz): 2437



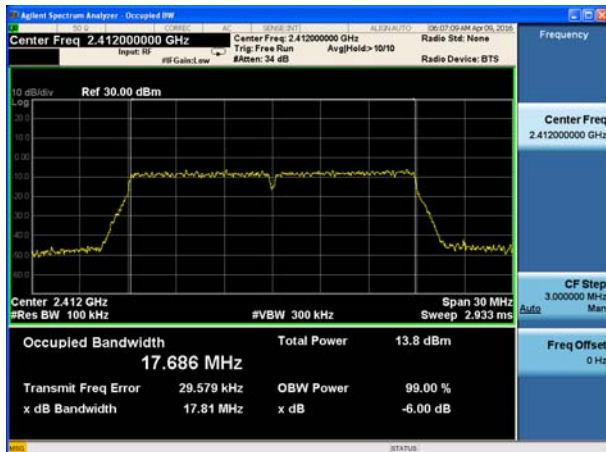
802.11b, Carrier frequency (MHz): 2462



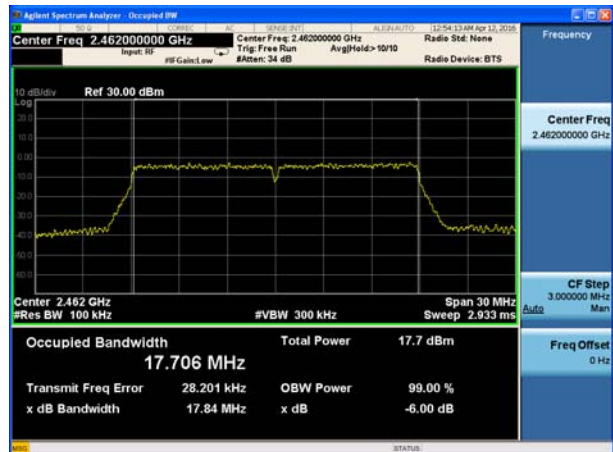
802.11g, Carrier frequency (MHz): 2462



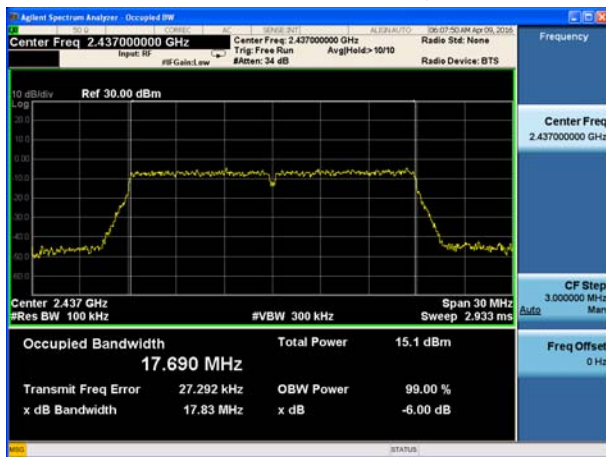
802.11n(HT20), Carrier frequency (MHz): 2412



802.11n(HT20), Carrier frequency (MHz): 2462



802.11n(HT20), Carrier frequency (MHz): 2437



5.3. Band Edge

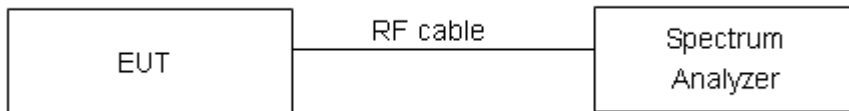
Ambient condition

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 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.”

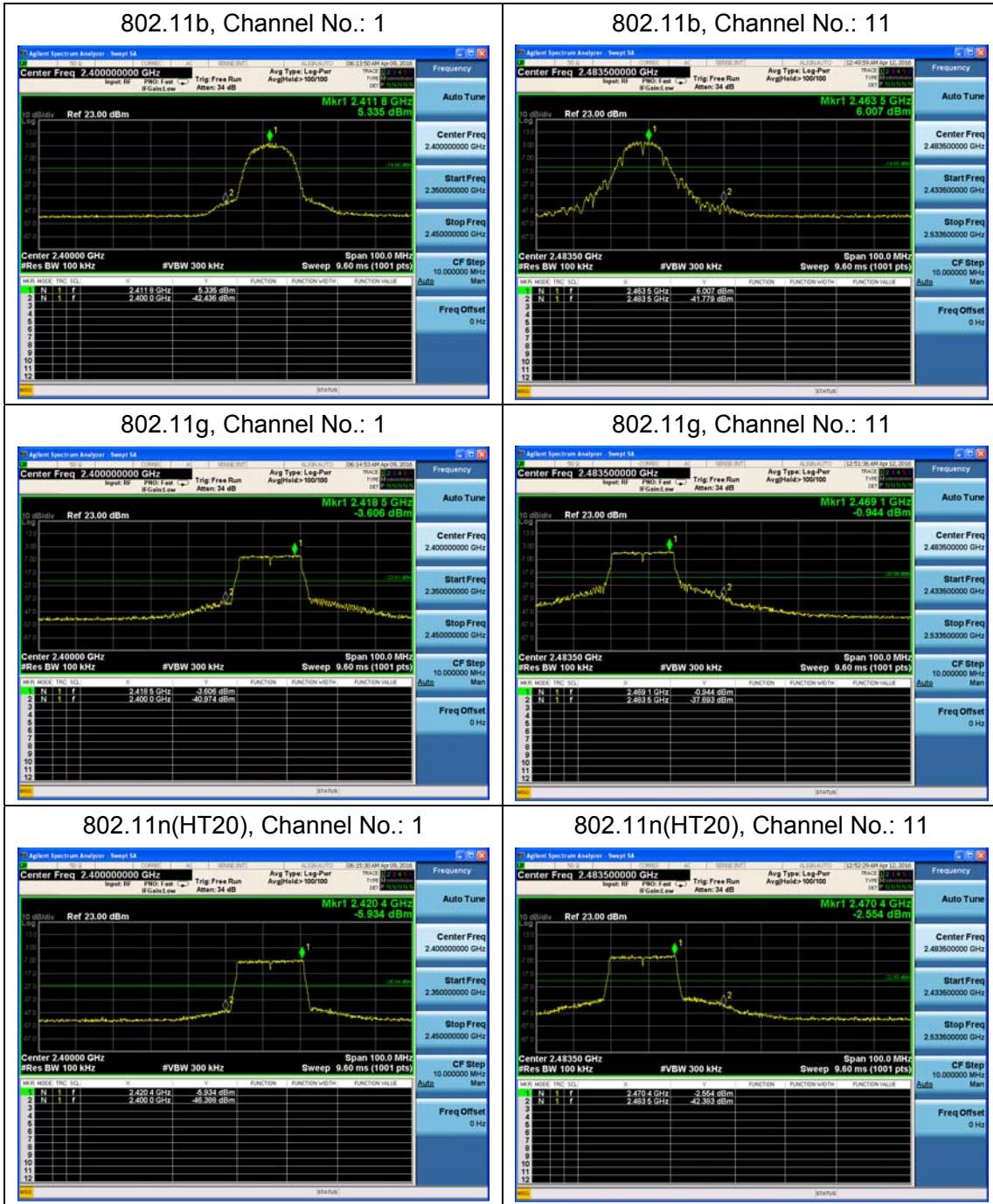
Measurement Uncertainty

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



Test Results: PASS



5.4. Power Spectral Density

Ambient condition

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

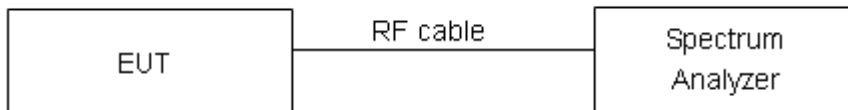
Method of Measurement

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

RBW is set to 3 kHz and VBW is set to 10 kHz for Wi-Fi 2.4G on spectrum analyzer.

Set the span to 1.5 times the DTS channel bandwidth. Sweep time = auto couple. Trace mode = max hold. The peak power spectral density is recorded.

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. ”

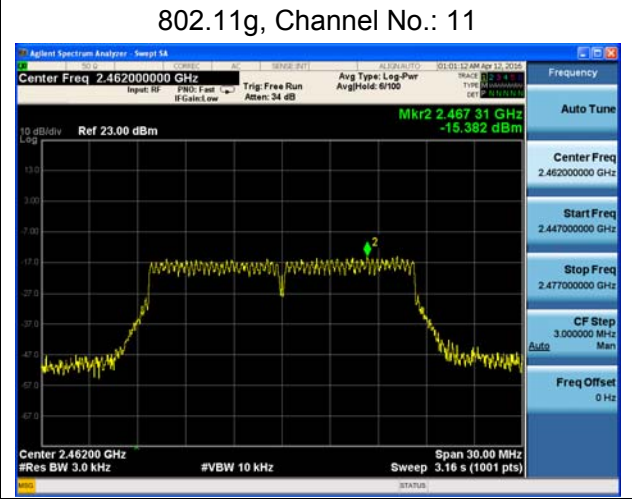
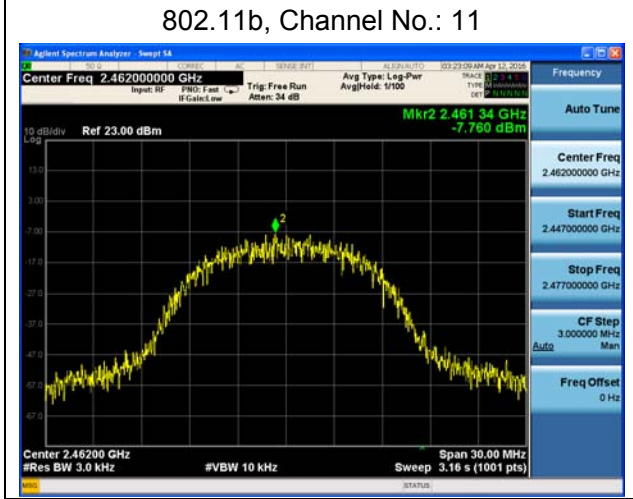
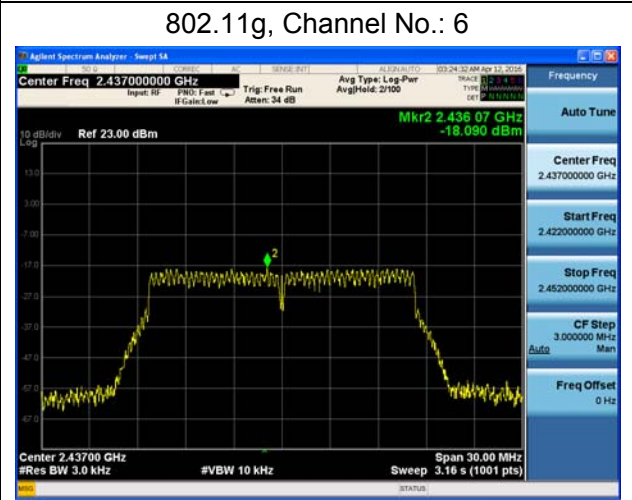
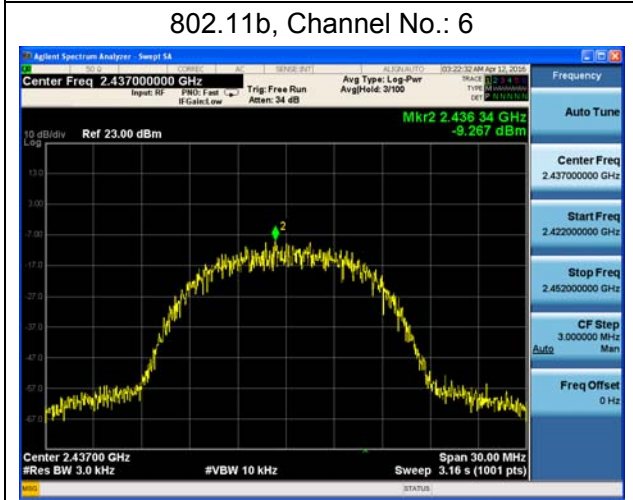
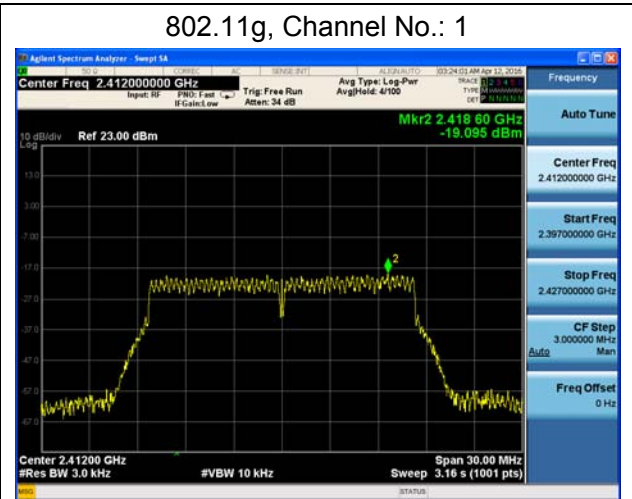
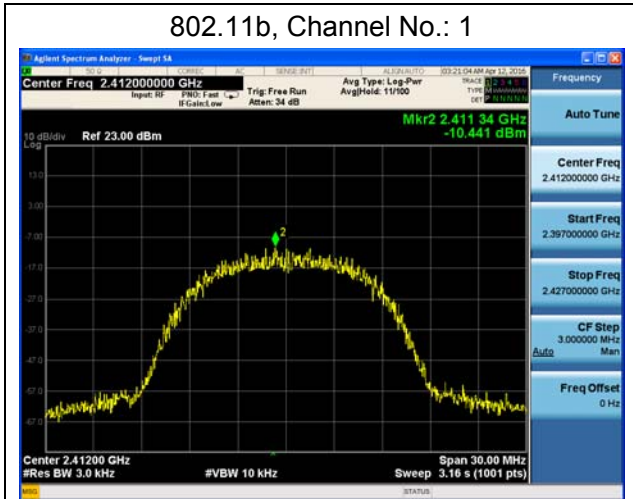
Limits	≤ 8 dBm / 3kHz
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Measurement Uncertainty

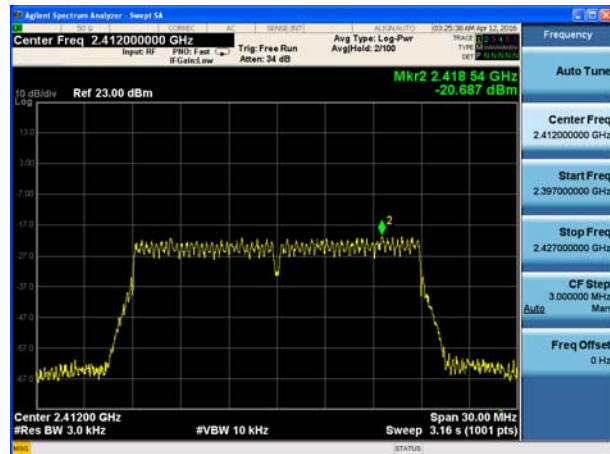
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

**Test Results:**

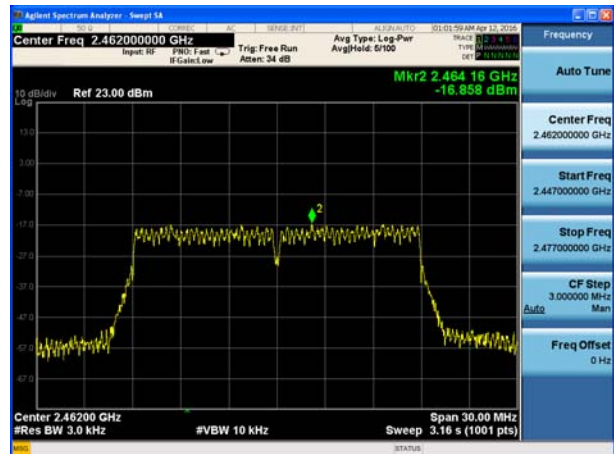
Network Standards	Channel Number	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-10.441	8	PASS
	6	-9.267	8	PASS
	11	-7.760	8	PASS
802.11g	1	-19.095	8	PASS
	6	-18.090	8	PASS
	11	-15.382	8	PASS
802.11n HT20	1	-20.687	8	PASS
	6	-19.256	8	PASS
	11	-16.858	8	PASS



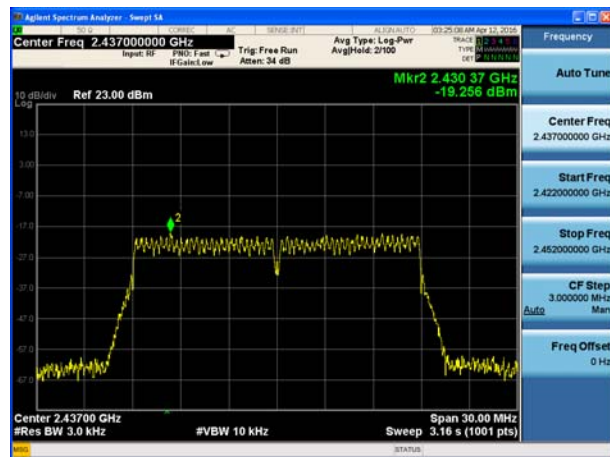
802.11n(HT20), Channel No. 1



802.11n(HT20), Channel No. 11



802.11n(HT20), Channel No. 6



5.5. Spurious RF Conducted Emissions

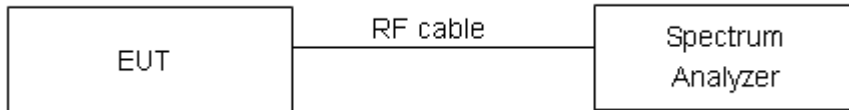
Ambient condition

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

Method of Measurement

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

The test is in transmitting mode.



Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.”

Network Standards	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	4.945	-15.055
	2437	-2.029	-22.029
	2462	3.375	-16.625
802.11g	2412	-3.427	-23.427
	2437	-7.82	-27.82
	2462	-2.185	-22.185
802.11n HT20	2412	-7.188	-27.188
	2437	-11.716	-31.716
	2462	-4.066	-24.066

Measurement Uncertainty

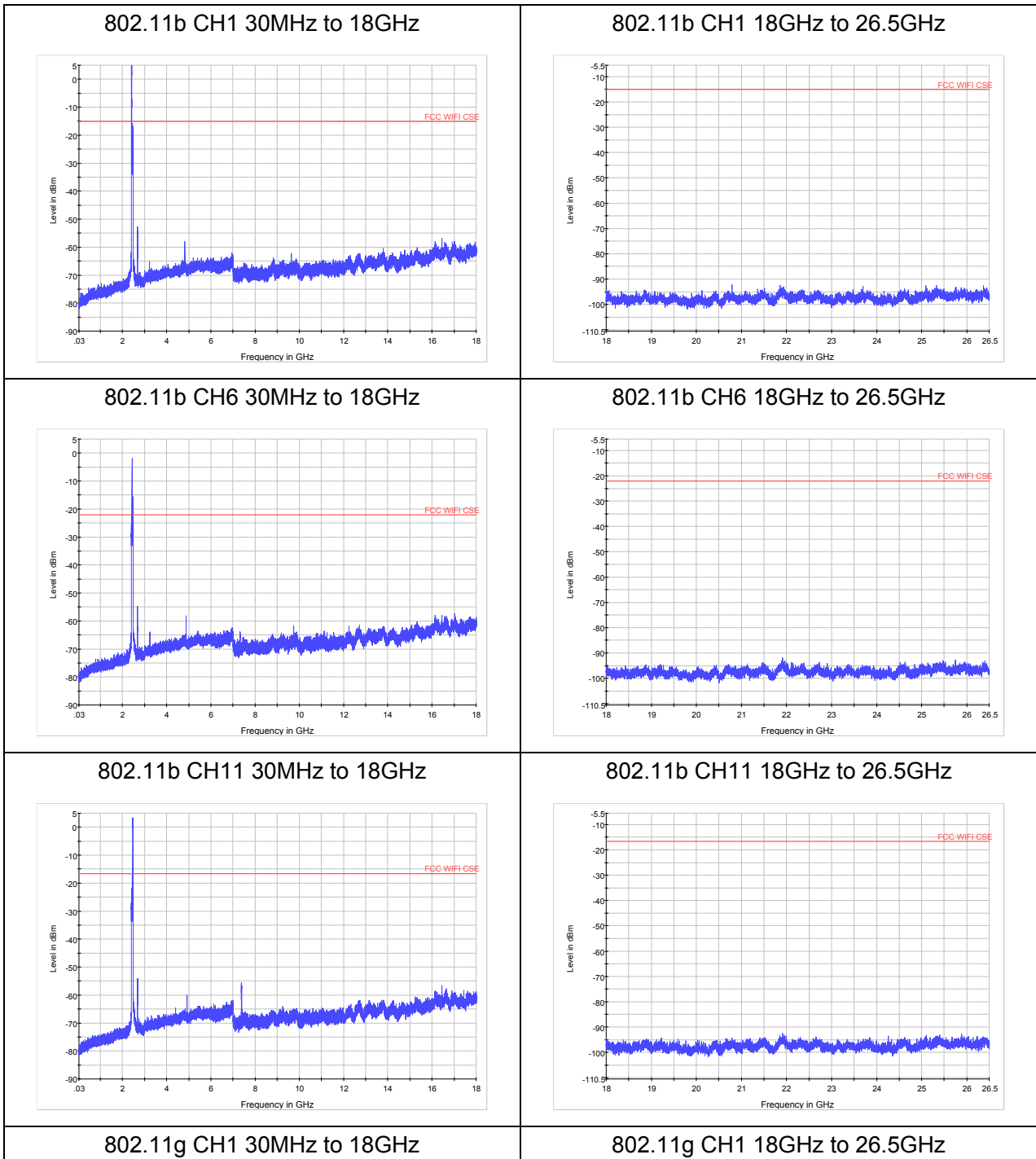
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

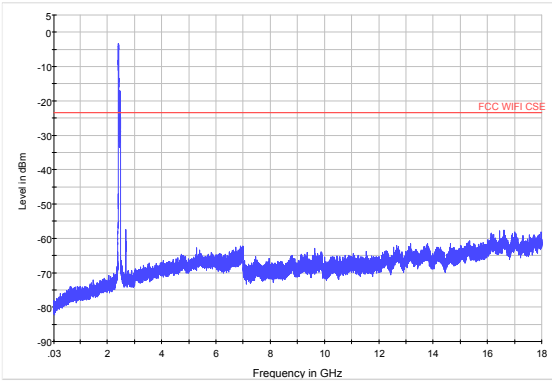
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB



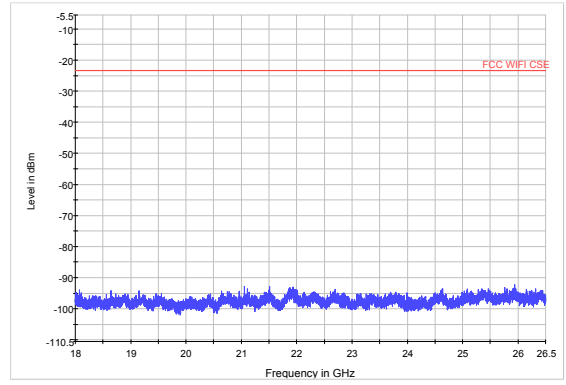
Test Results:

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.
The signal beyond the limit is carrier.

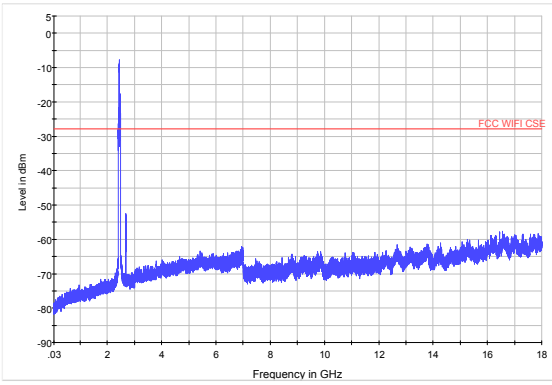




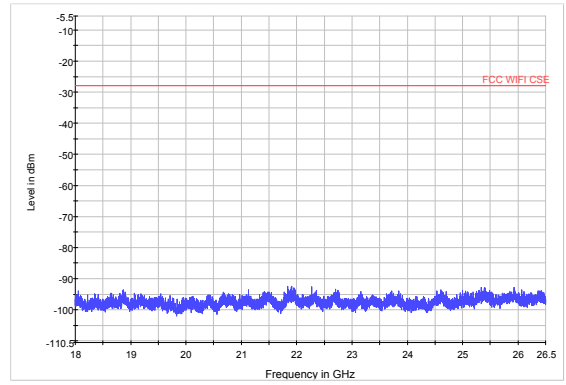
802.11g CH6 30MHz to 18GHz



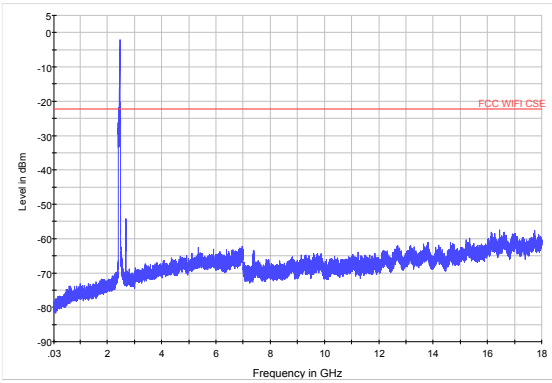
802.11g CH6 18GHz to 26.5GHz



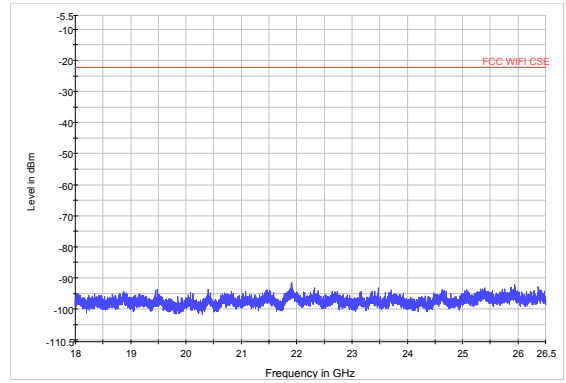
802.11g CH11 30MHz to 18GHz



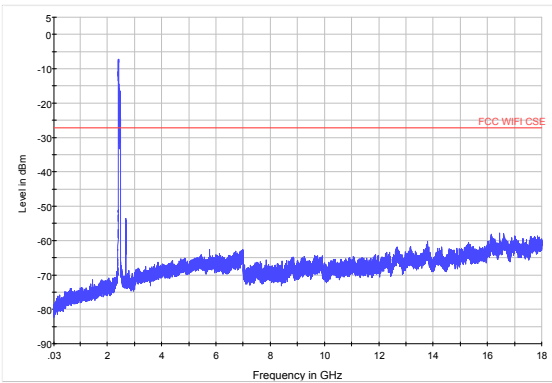
802.11g CH11 18GHz to 26.5GHz



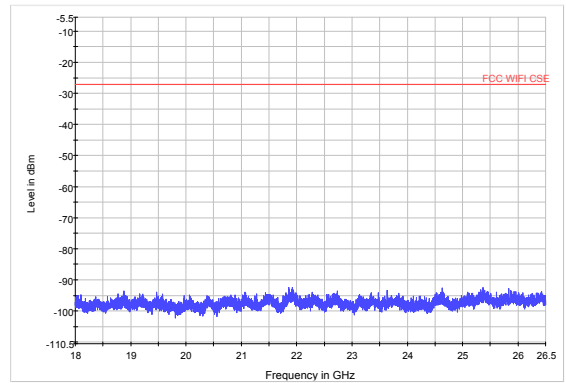
802.11n (HT20) CH1 30MHz to 18GHz



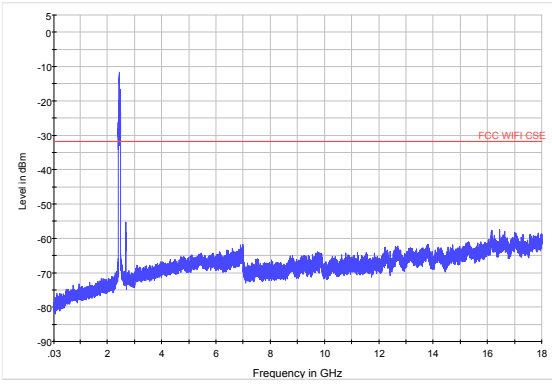
802.11n (HT20) CH1 18GHz to 26.5GHz



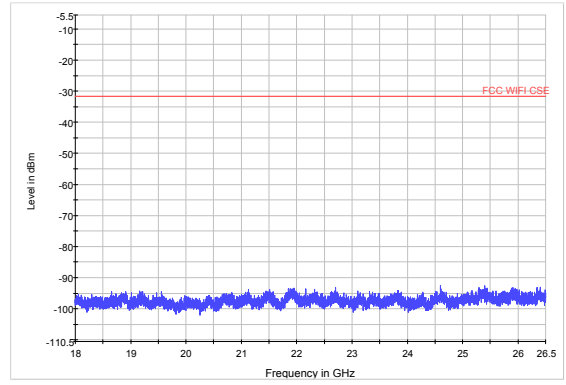
802.11n (HT20) CH6 30MHz to 18GHz



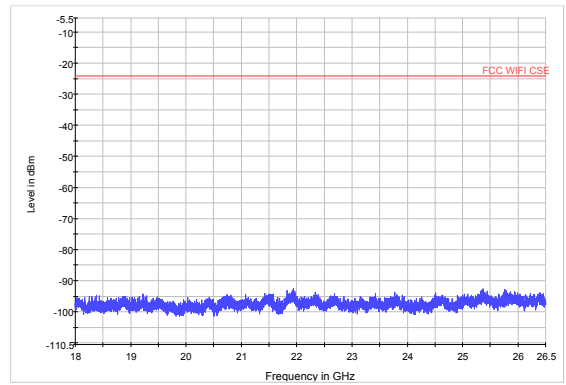
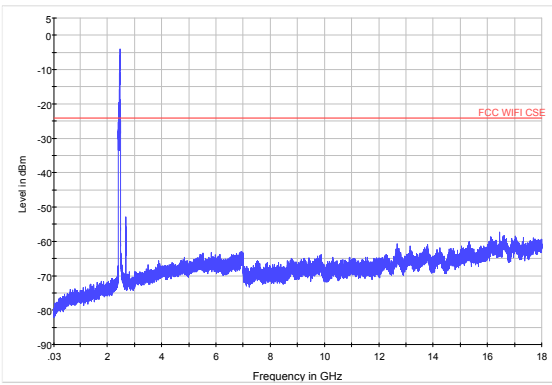
802.11n (HT20) CH6 18GHz to 26.5GHz



802.11n (HT20) CH11 30MHz to 18GHz



802.11n (HT20) CH11 18GHz to 26.5GHz



5.6. Radiated Emissions in the Restricted Band

Ambient condition

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

Method of Measurement

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. RBW is set to 100kHz. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

Set the spectrum analyzer in the following:

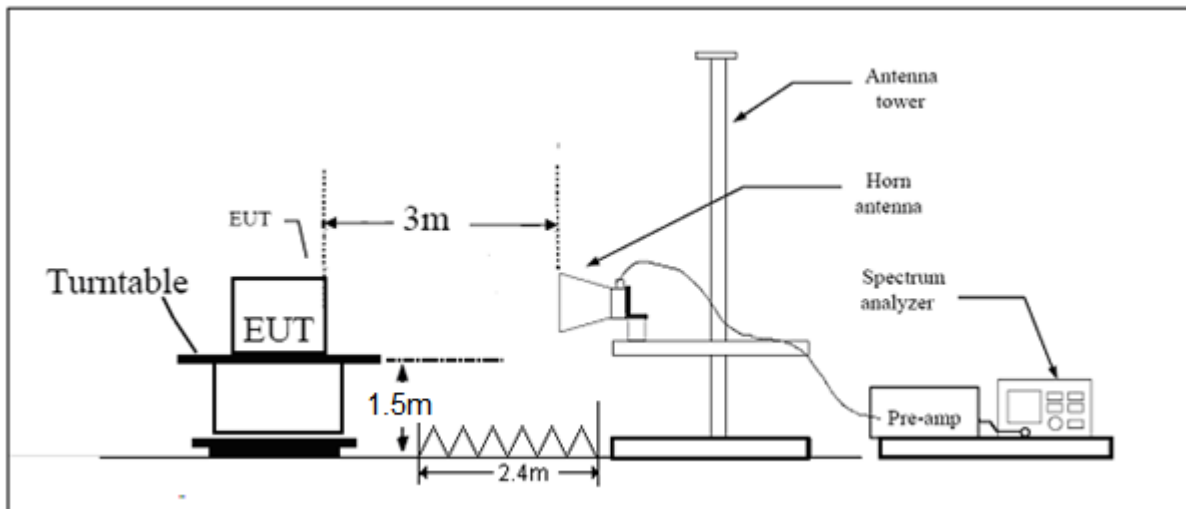
- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=1MHz / Sweep=AUTO

This setting method can refer to **KDB 558074**.

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

The test is in transmitting mode.

Test setup



Note: Area side: 2.4mX3.6m

Limits

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			

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
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

Measurement Uncertainty

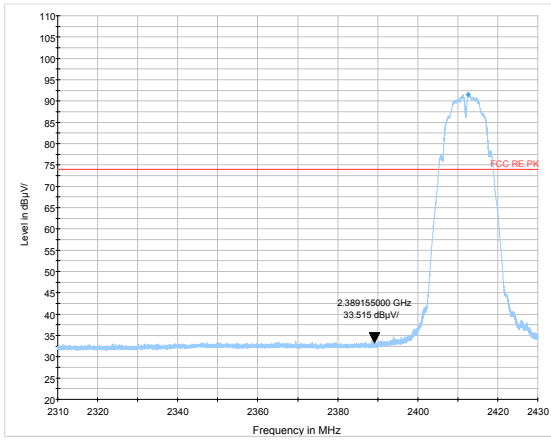
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.55$ dB.

Test Results:

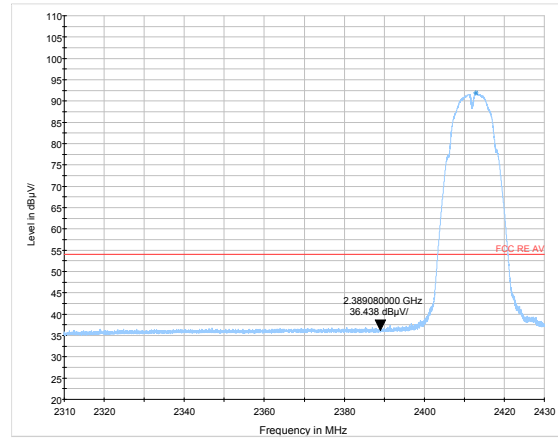
PASS

The signal beyond the limit is carrier.

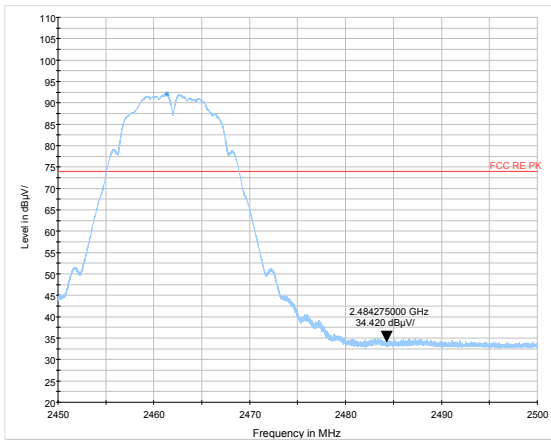
802.11b-Channel 1: Peak



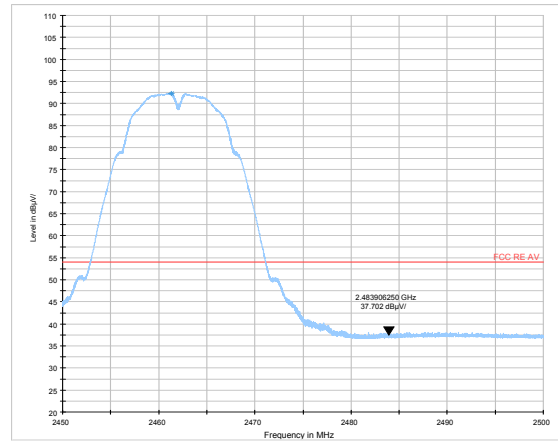
802.11b-Channel 1: Average



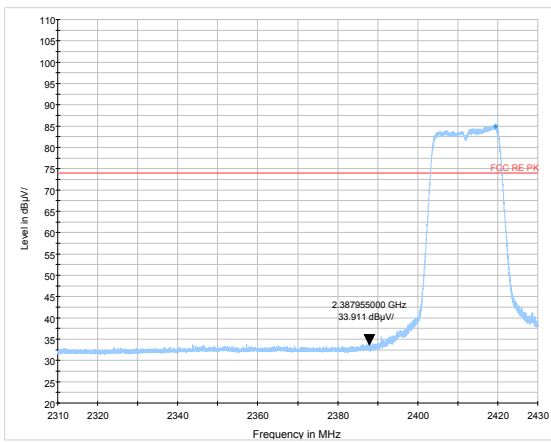
802.11b-Channel 11: Peak



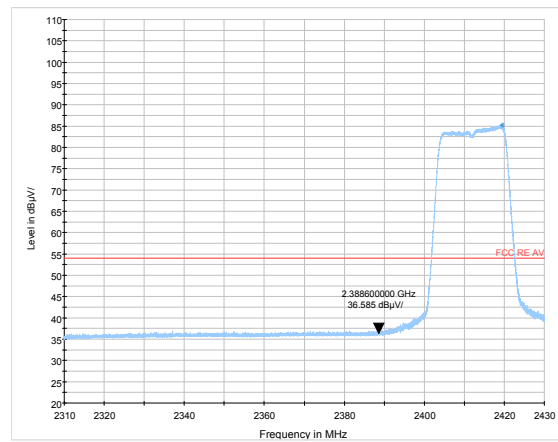
802.11b-Channel 11: Average



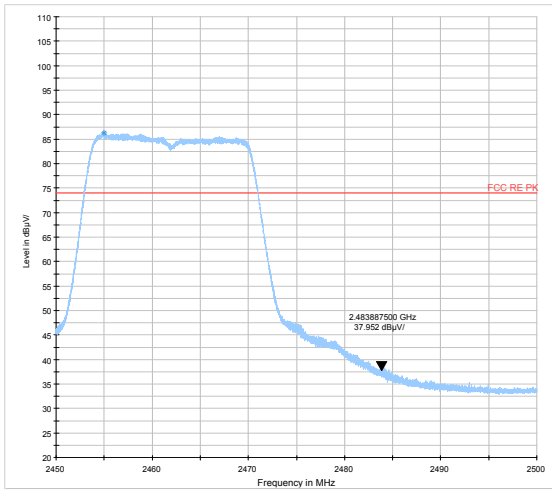
802.11g-Channel 1: Peak



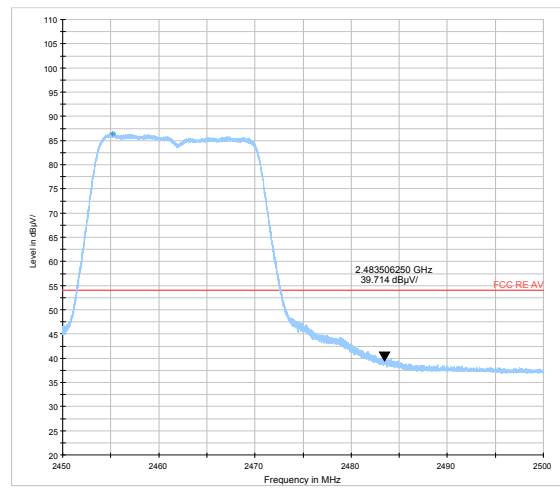
802.11g-Channel 1: Average



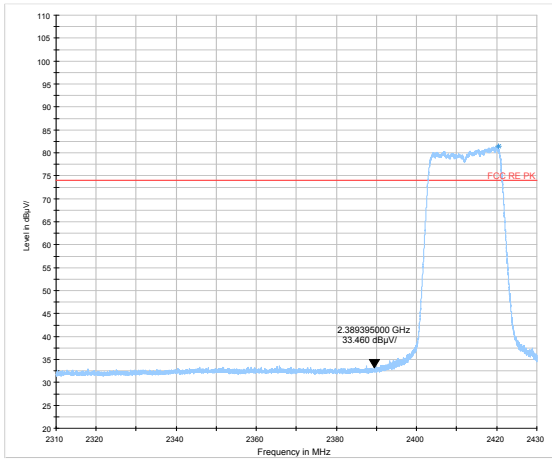
802.11g-Channel 11: Peak



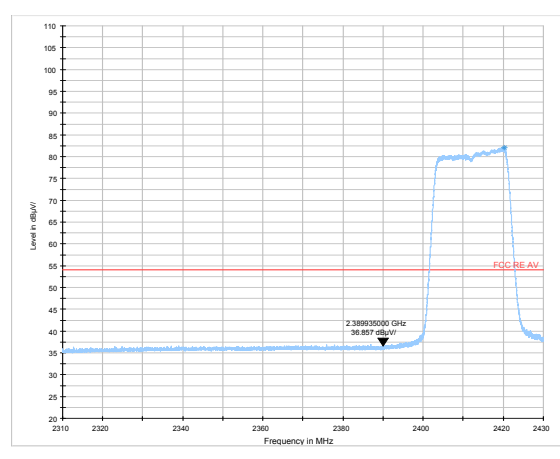
802.11g-Channel 11: Average



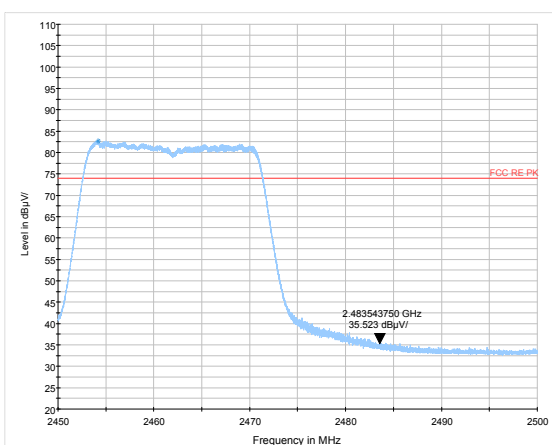
802.11n HT20 -Channel 1: Peak



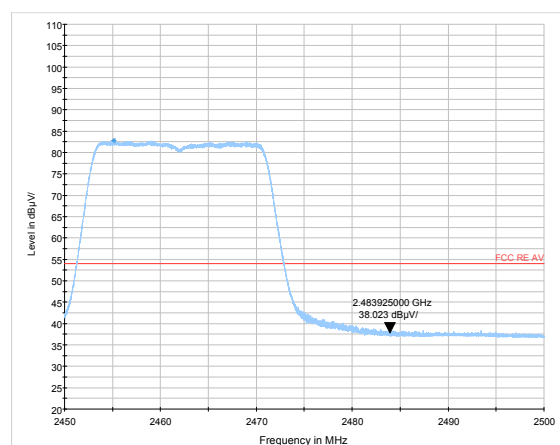
802.11n HT20-Channel 1: Average



802.11n HT20-Channel 11: Peak



802.11n HT20-Channel 11: Average



5.7. Radiates 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 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.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, 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=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz (detector: Peak):

(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

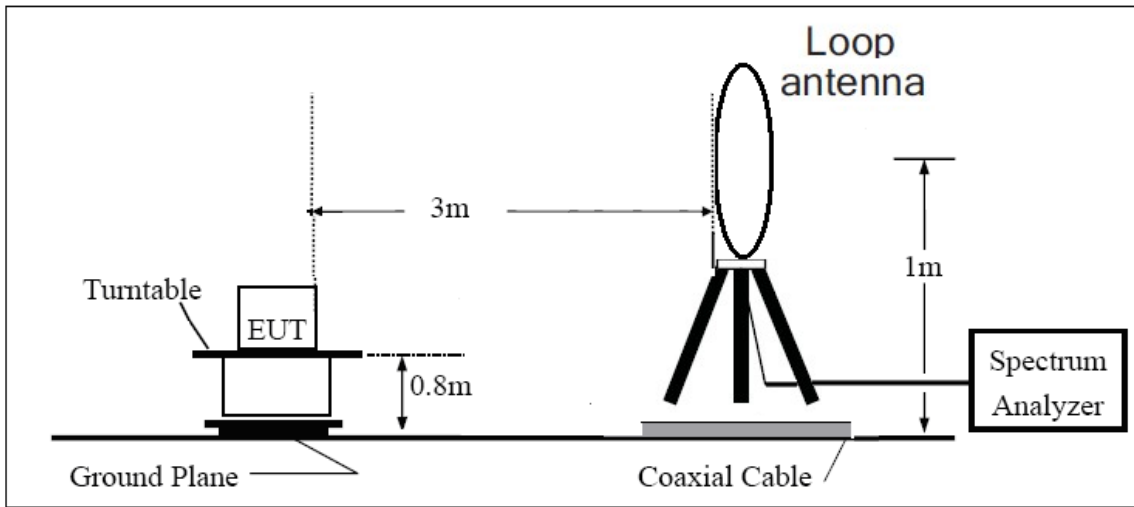
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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.

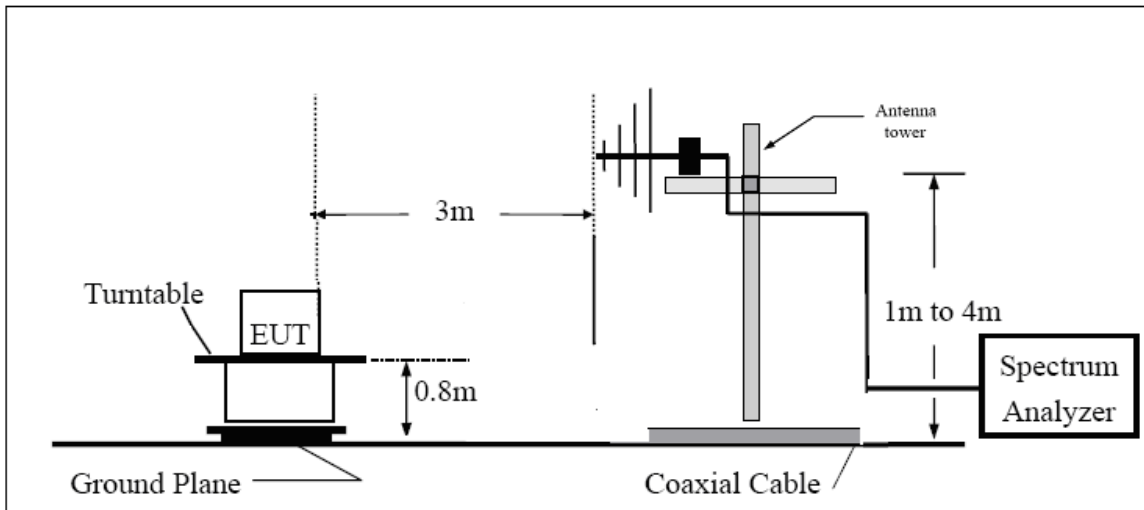
The test is in transmitting mode.

Test setup

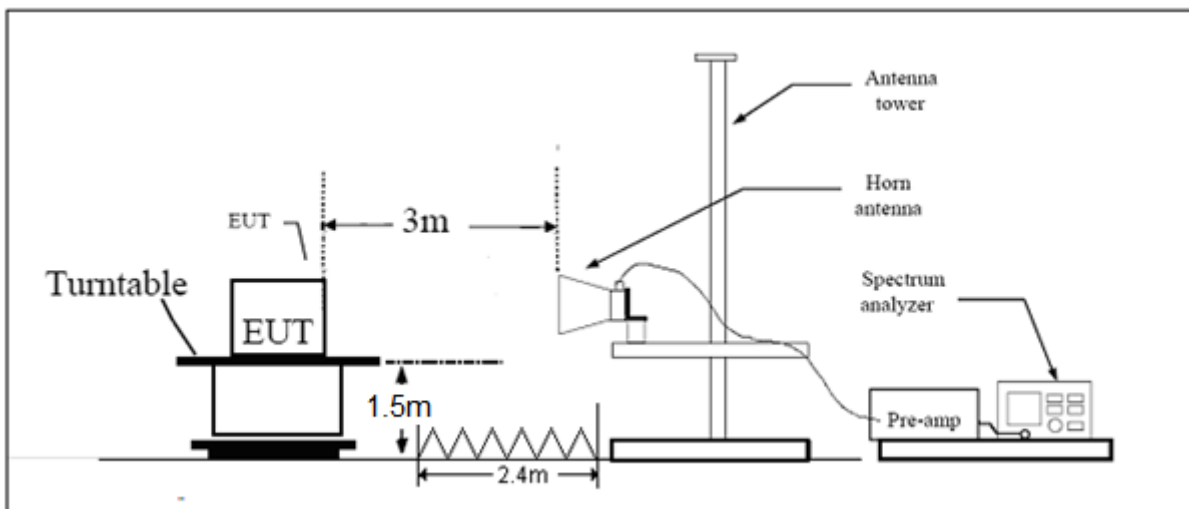
9KHz~~~ 30MHz



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)).”

Limit in restricted band

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

§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.

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
Above 1GHz	3.68 dB

Test result

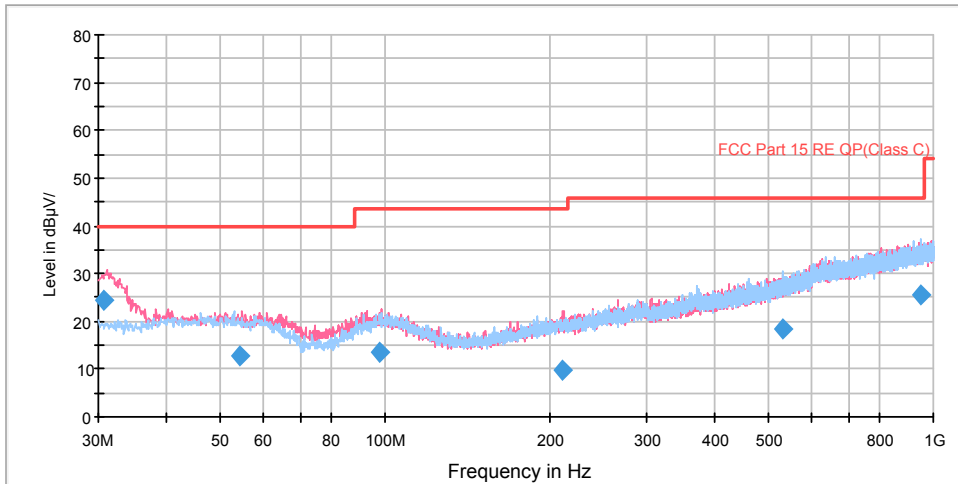
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

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.

802.11b CH1

FCC RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

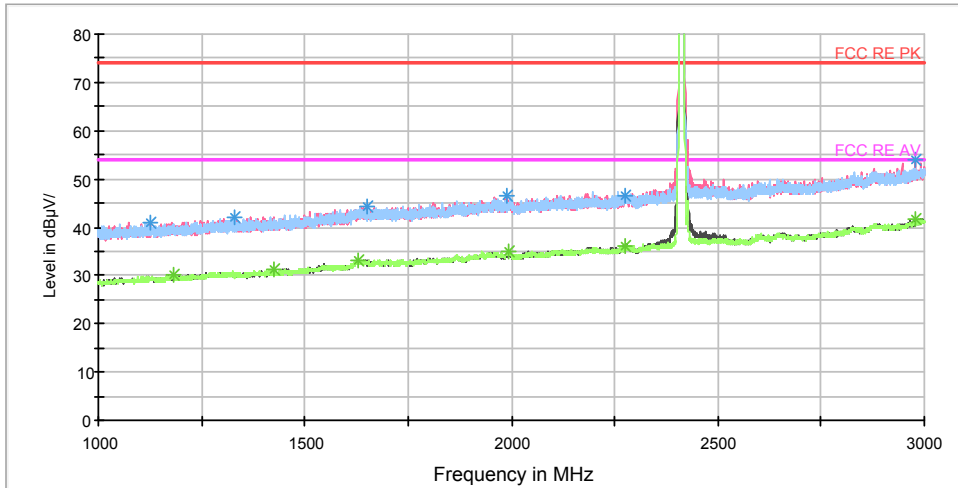
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.691250	24.5	100.0	V	155.0	36.4	11.9	15.5	40.0
54.377500	12.6	100.0	V	155.0	25.4	12.8	27.4	40.0
98.026250	13.4	125.0	V	264.0	26.3	12.9	30.1	43.5
211.030000	9.8	114.0	V	60.0	22.3	12.5	33.7	43.5
530.392500	18.2	125.0	H	49.0	38.8	20.6	27.8	46.0
946.452500	25.4	125.0	H	0.0	51.4	26.0	20.6	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

RE 1G-3GHz PK+AV



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

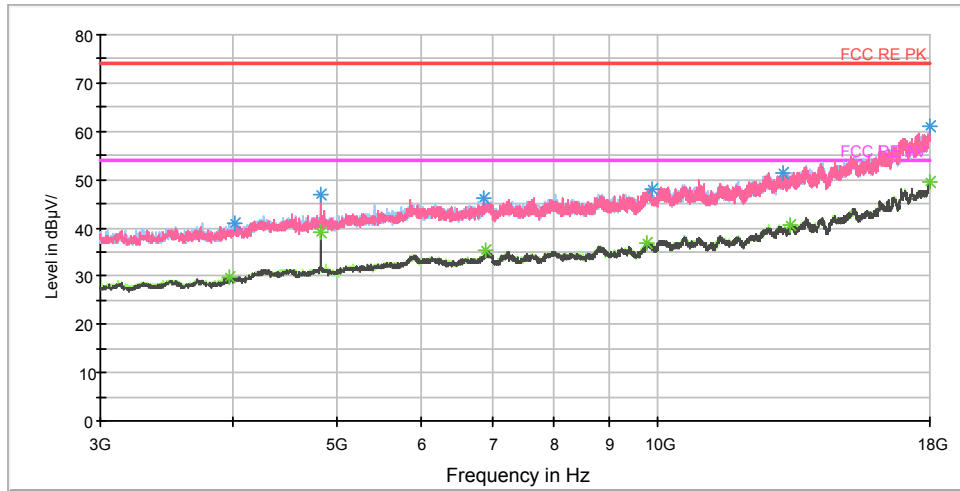
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1125.000000	41.0	151.0	V	127.0	49.4	-8.4	33.0	74
1330.750000	42.0	151.0	H	86.0	49.4	-7.4	32.0	74
1649.000000	44.2	150.0	V	225.0	49.2	-5.0	29.8	74
1991.250000	46.6	150.0	V	266.0	49.9	-3.3	27.4	74
2275.750000	46.6	150.0	V	272.0	48.1	-1.5	27.4	74
2980.000000	53.8	151.0	V	285.0	56.0	2.2	20.2	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)
1183.750000	30.2	151.0	H	0.0	38.3	-8.1	23.8	54
1426.000000	31.2	151.0	H	18.0	38.1	-6.9	22.8	54
1629.750000	33.3	150.0	H	18.0	38.0	-4.7	20.7	54
1994.500000	35.0	150.0	V	340.0	38.2	-3.2	19.0	54
2275.000000	36.2	150.0	V	333.0	37.7	-1.5	17.8	54
2977.250000	41.7	151.0	V	333.0	43.9	2.2	12.3	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

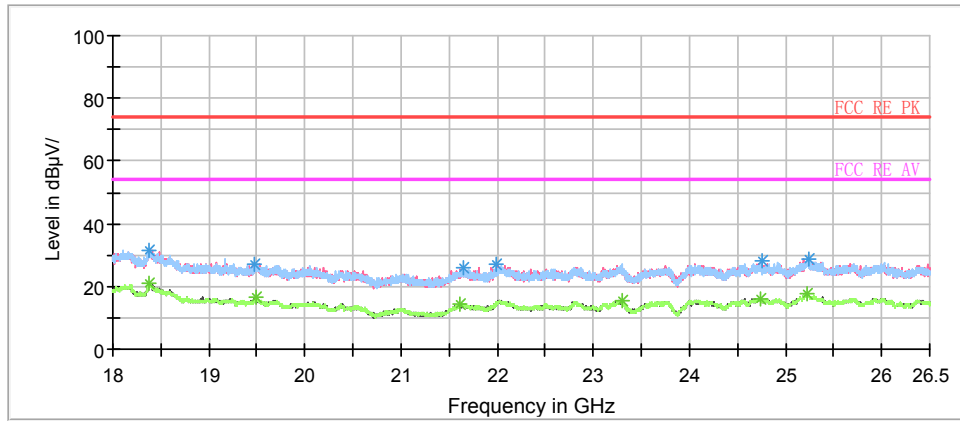
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4010.625000	41.1	151.0	V	0.0	41.6	0.5	32.9	74
4822.500000	46.9	151.0	V	315.0	49.6	2.7	27.1	74
6870.000000	46.2	150.0	V	89.0	53.0	6.8	27.8	74
9877.500000	47.9	150.0	H	150.0	59.4	11.5	26.1	74
13095.000000	51.5	150.0	H	343.0	67.7	16.2	22.5	74
17979.375000	60.8	151.0	V	8.0	86.0	25.2	13.2	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)
3971.250000	29.9	151.0	H	12.0	30.2	0.3	24.1	54
4822.500000	39.2	151.0	V	315.0	41.9	2.7	14.8	54
6903.750000	35.2	150.0	H	238.0	42.2	7.0	18.8	54
9751.875000	37.0	150.0	V	75.0	48.7	11.7	17.0	54
13333.125000	40.7	150.0	V	133.0	56.4	15.7	13.3	54
18000.000000	49.4	151.0	H	0.0	74.8	25.4	4.6	54

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

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)
18382.500000	31.7	V	213.0	36.5	-4.8	42.3	74
19477.937500	27.1	V	90.0	34.9	-7.8	46.9	74
21649.687500	26.2	V	171.0	35.4	-9.2	47.8	74
21985.437500	27.1	H	88.0	35.4	-8.3	46.9	74
24747.937500	27.9	H	29.0	34.6	-6.7	46.1	74
25233.500000	28.7	V	312.0	34.6	-5.9	45.3	74

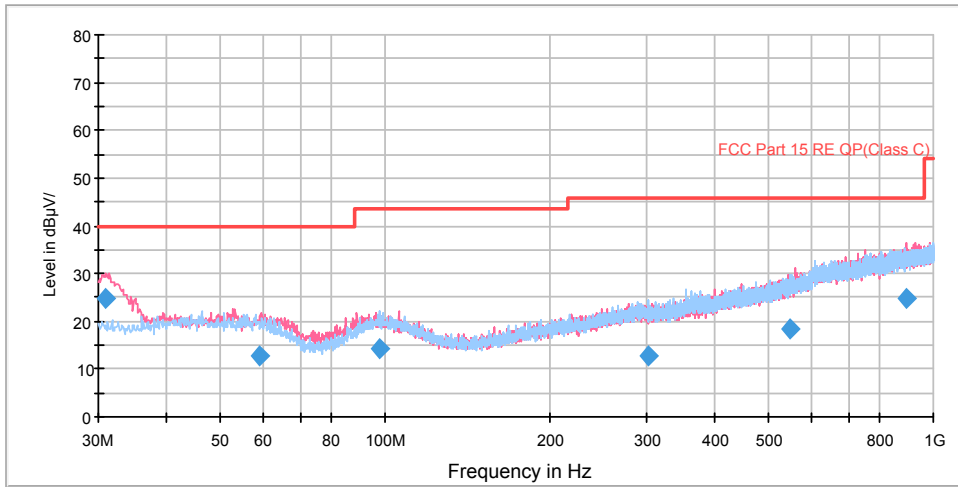
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18375.062500	20.8	H	80.0	25.5	-4.7	33.2	54
19488.562500	16.4	V	221.0	24.1	-7.7	37.6	54
21621.000000	14.6	V	305.0	23.6	-9.0	39.4	54
23294.437500	15.6	V	312.0	22.6	-7.0	38.4	54
24737.312500	16.2	V	55.0	22.6	-6.4	37.8	54
25225.000000	17.8	V	312.0	23.7	-5.9	36.2	54

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

802.11b CH6

FCC RE 0.03-1GHz QP Class C

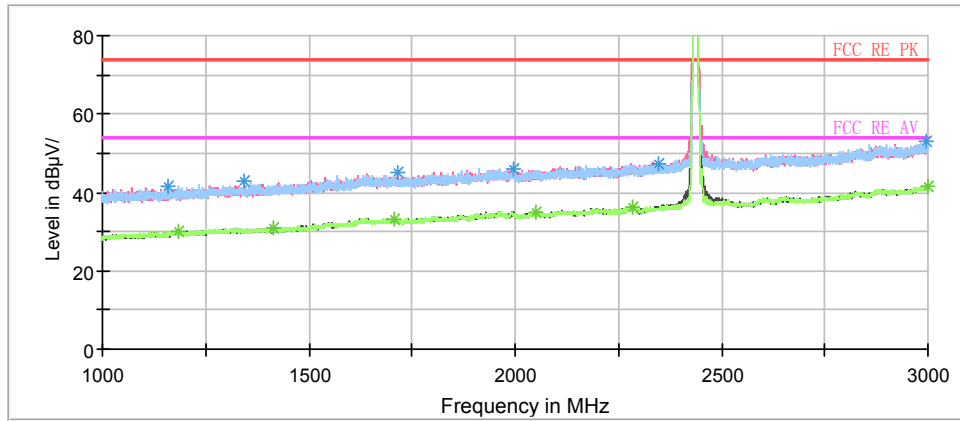


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.855000	24.6	100.0	V	299.0	36.5	11.9	15.4	40.0
59.022500	12.9	125.0	V	194.0	25.4	12.5	27.1	40.0
97.537500	14.2	125.0	H	141.0	27.1	12.9	29.3	43.5
301.317500	12.7	118.0	H	88.0	28.2	15.5	33.3	46.0
548.952500	18.5	114.0	V	218.0	39.5	21.0	27.5	46.0
890.111250	24.7	125.0	V	6.0	50.2	25.5	21.3	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

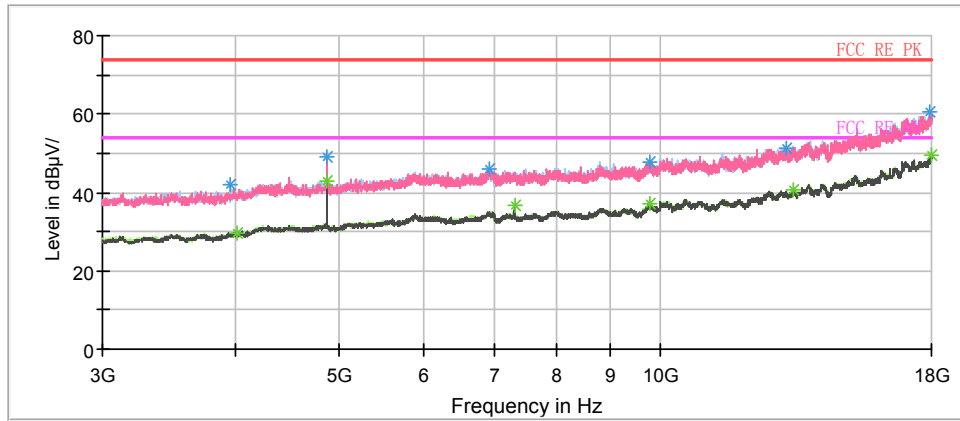
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1160.750000	41.7	151.0	V	283.0	50.0	-8.3	32.3	74
1343.500000	43.0	151.0	H	162.0	50.5	-7.5	31.0	74
1717.000000	45.2	150.0	V	346.0	50.1	-4.9	28.8	74
1994.250000	46.2	150.0	V	0.0	49.4	-3.2	27.8	74
2348.500000	47.4	150.0	V	0.0	48.7	-1.3	26.6	74
2994.750000	53.2	151.0	V	201.0	55.5	2.3	20.8	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)
1183.500000	30.0	151.0	V	297.0	38.1	-8.1	24.0	54
1412.500000	31.0	151.0	V	353.0	38.1	-7.1	23.0	54
1706.000000	33.3	150.0	V	0.0	38.2	-4.9	20.7	54
2052.250000	35.0	150.0	V	303.0	38.2	-3.2	19.0	54
2284.750000	36.4	150.0	V	275.0	37.9	-1.5	17.6	54
2999.500000	41.7	151.0	H	183.0	44.0	2.3	12.3	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

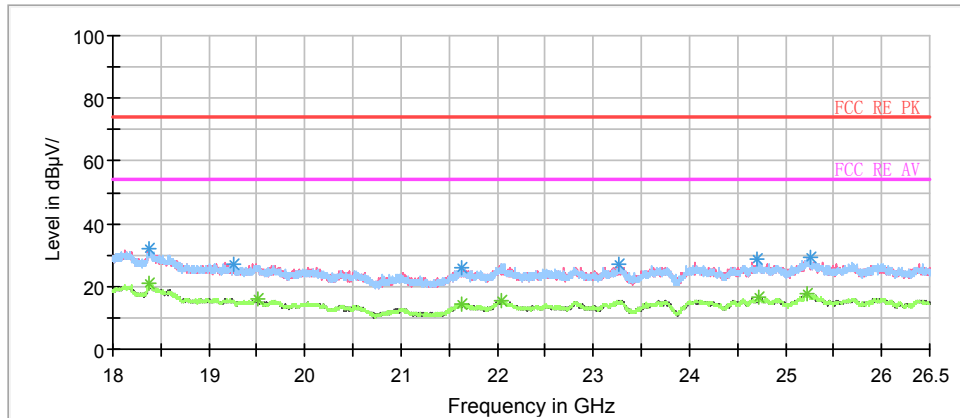
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3960.000000	42.0	151.0	H	337.0	42.2	0.2	32.0	74
4873.125000	48.8	151.0	V	311.0	51.8	3.0	25.2	74
6922.500000	46.0	150.0	H	220.0	52.8	6.8	28.0	74
9811.875000	47.8	150.0	V	12.0	60.0	12.2	26.2	74
13151.250000	51.4	150.0	V	42.0	67.0	15.6	22.6	74
17960.625000	60.6	151.0	V	187.0	85.5	24.9	13.4	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)
4018.125000	29.7	151.0	H	264.0	30.2	0.5	24.3	54
4873.125000	43.1	151.0	V	311.0	46.1	3.0	10.9	54
7310.625000	36.8	150.0	V	0.0	45.4	8.6	17.2	54
9810.000000	37.0	150.0	H	264.0	49.2	12.2	17.0	54
13351.875000	40.6	150.0	H	280.0	56.4	15.8	13.4	54
17986.875000	49.6	151.0	H	51.0	74.8	25.2	4.4	54

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

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)
18376.125000	32.1	H	179.0	36.8	-4.7	41.9	74
19250.562500	27.0	H	195.0	33.8	-6.8	47.0	74
21633.750000	25.9	V	292.0	35.0	-9.1	48.1	74
23272.125000	27.3	V	345.0	34.5	-7.2	46.7	74
24711.812500	28.8	H	43.0	35.4	-6.6	45.2	74
25253.687500	29.1	H	170.0	35.9	-6.8	44.9	74

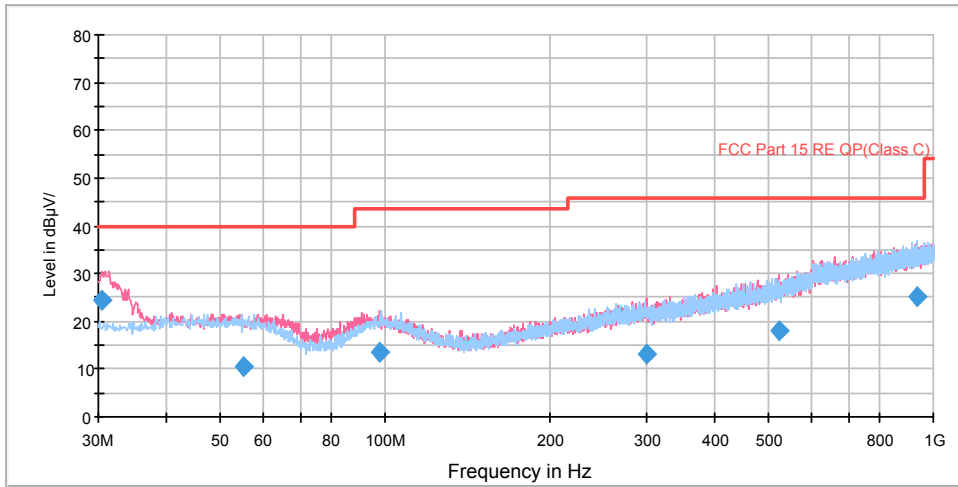
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18377.187500	20.7	H	280.0	25.5	-4.8	33.3	54
19505.562500	16.0	V	140.0	23.5	-7.5	38.0	54
21636.937500	14.4	H	10.0	23.5	-9.1	39.6	54
22050.250000	15.5	V	249.0	23.6	-8.1	38.5	54
24725.625000	16.3	V	275.0	22.5	-6.2	37.7	54
25217.562500	17.9	V	54.0	24.0	-6.1	36.1	54

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

802.11b CH11

FCC RE 0.03-1GHz QP Class C

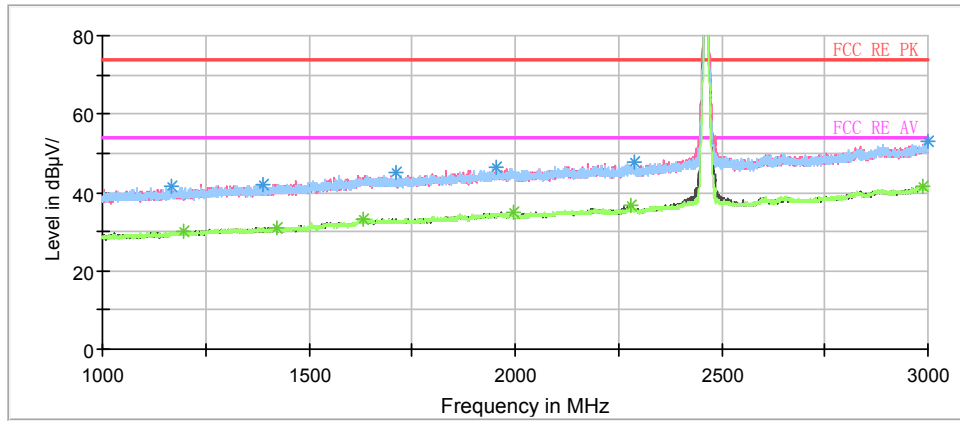


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.440000	24.5	100.0	V	28.0	36.4	11.9	15.5	40.0
55.136250	10.4	114.0	H	89.0	23.1	12.7	29.6	40.0
97.662500	13.4	125.0	H	0.0	26.3	12.9	30.1	43.5
299.898750	13.0	114.0	V	121.0	28.5	15.5	33.0	46.0
522.996250	17.9	114.0	V	100.0	38.3	20.4	28.1	46.0
935.370000	25.1	125.0	H	331.0	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

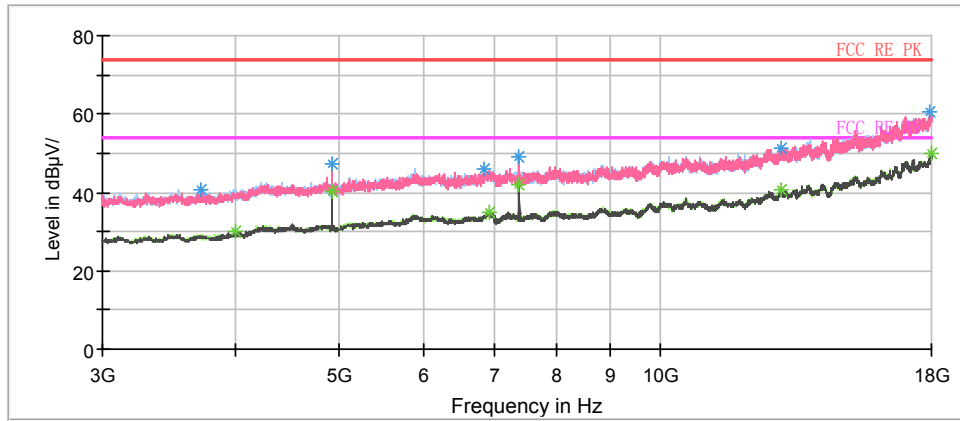
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1166.250000	41.6	151.0	H	0.0	49.8	-8.2	32.4	74
1389.750000	42.2	151.0	V	0.0	49.2	-7.0	31.8	74
1709.500000	44.9	150.0	V	322.0	49.7	-4.8	29.1	74
1955.250000	46.3	150.0	H	202.0	49.8	-3.5	27.7	74
2289.000000	47.7	150.0	V	322.0	49.4	-1.7	26.3	74
2998.500000	53.1	151.0	V	252.0	55.4	2.3	20.9	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)
1196.500000	29.9	151.0	V	132.0	38.1	-8.2	24.1	54
1424.500000	31.0	151.0	H	232.0	37.9	-6.9	23.0	54
1632.000000	33.3	150.0	V	88.0	38.0	-4.7	20.7	54
1994.250000	35.0	150.0	H	0.0	38.2	-3.2	19.0	54
2278.250000	36.5	150.0	H	0.0	37.9	-1.4	17.5	54
2988.750000	41.7	151.0	H	111.0	43.9	2.2	12.3	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

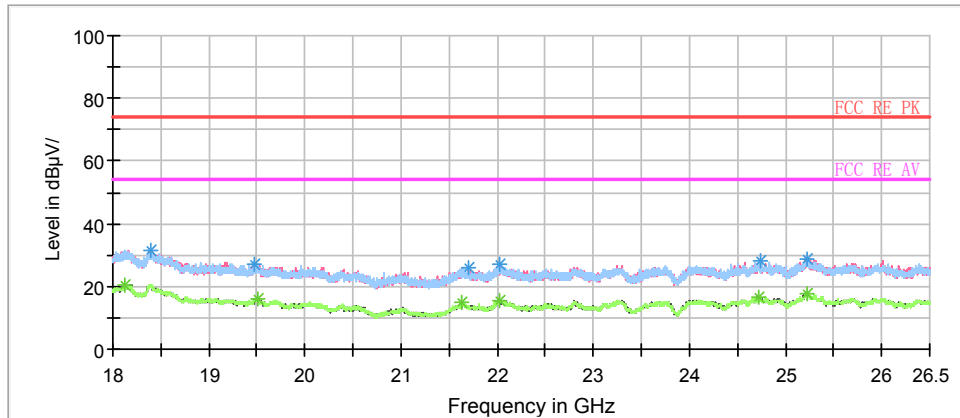
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3705.000000	40.8	151.0	H	0.0	41.1	-0.3	33.2	74
4923.750000	47.3	151.0	V	314.0	50.4	3.1	26.7	74
6856.875000	45.9	150.0	V	115.0	52.6	6.7	28.1	74
7385.625000	48.9	150.0	V	0.0	56.9	8.0	25.1	74
13001.250000	51.1	150.0	H	0.0	67.3	16.2	22.9	74
17932.500000	60.4	151.0	H	318.0	85.0	24.6	13.6	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)
4003.125000	29.9	151.0	H	0.0	30.4	0.5	24.1	54
4923.750000	40.4	151.0	V	314.0	43.5	3.1	13.6	54
6924.375000	35.1	150.0	H	61.0	41.9	6.8	18.9	54
7385.625000	42.2	150.0	V	0.0	50.2	8.0	11.8	54
13003.125000	40.6	150.0	H	0.0	56.8	16.2	13.4	54
17998.125000	49.9	151.0	V	57.0	75.3	25.4	4.1	54

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

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	31.7	V	0.0	36.6	-4.9	42.3	74
19481.125000	27.2	H	205.0	35.0	-7.8	46.8	74
21700.687500	26.0	V	332.0	35.3	-9.3	48.0	74
22027.937500	26.8	V	264.0	34.7	-7.9	47.2	74
24736.250000	28.0	H	30.0	34.3	-6.3	46.0	74
25227.125000	28.9	H	317.0	34.8	-5.9	45.1	74

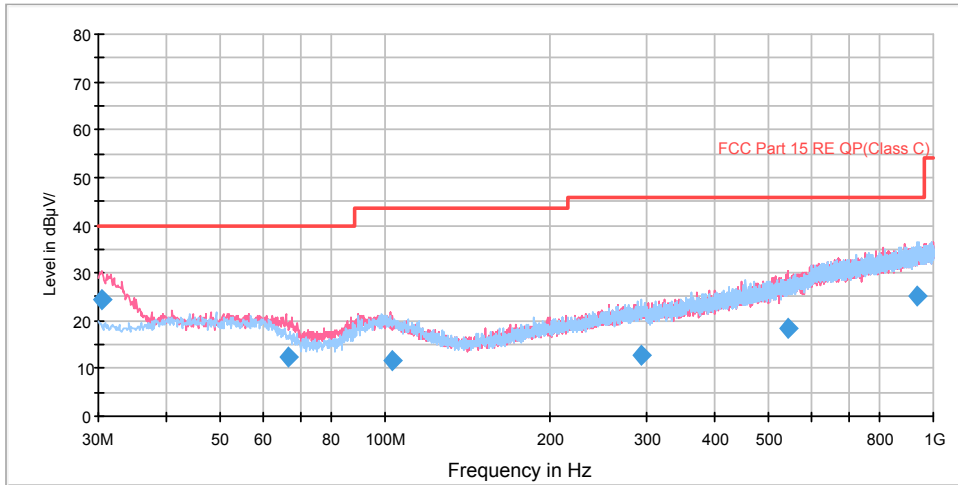
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18123.250000	20.3	H	129.0	25.2	-4.9	33.7	54
19515.125000	15.9	V	149.0	23.4	-7.5	38.1	54
21627.375000	14.8	V	133.0	23.9	-9.1	39.2	54
22032.187500	15.5	V	264.0	23.5	-8.0	38.5	54
24720.312500	16.8	V	197.0	23.1	-6.3	37.2	54
25227.125000	17.9	V	264.0	23.8	-5.9	36.1	54

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

802.11g CH1

FCC RE 0.03-1GHz QP Class C



Radiates Emission from 30MHz to 1GHz

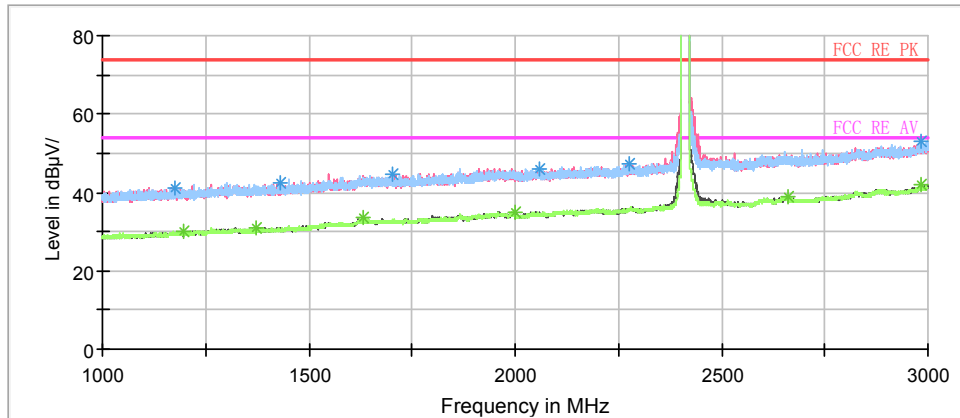
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.560000	24.5	100.0	V	146.0	36.4	-11.9	15.5	40.0
66.490000	12.4	100.0	V	314.0	22.3	-9.9	27.6	40.0
102.745000	11.8	125.0	V	218.0	24.8	-13.0	31.7	43.5
293.795000	12.8	125.0	H	303.0	28.1	-15.3	33.2	46.0
543.973750	18.4	125.0	V	340.0	39.3	-20.9	27.6	46.0
932.821250	25.1	100.0	H	171.0	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

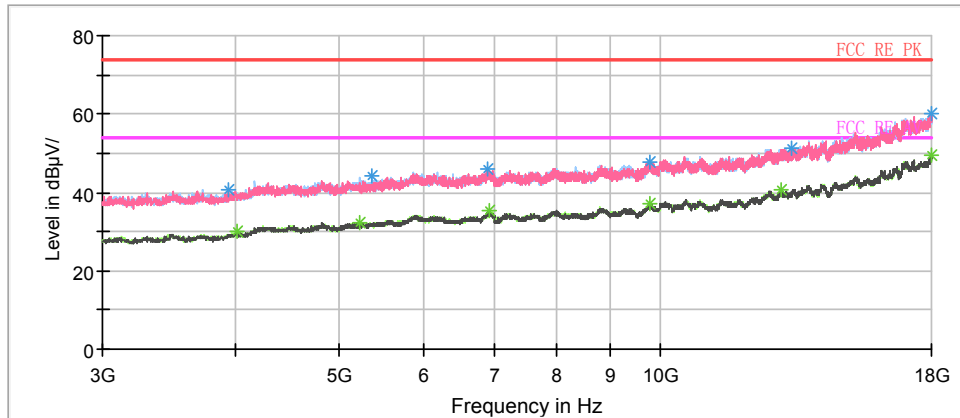
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1177.750000	41.2	151.0	H	0.0	49.2	-8.0	32.8	74
1431.750000	42.5	151.0	H	0.0	49.4	-6.9	31.5	74
1702.750000	44.8	150.0	H	4.0	49.7	-4.9	29.2	74
2059.250000	46.2	150.0	H	171.0	49.3	-3.1	27.8	74
2278.000000	47.4	150.0	H	141.0	48.8	-1.4	26.6	74
2983.000000	53.0	151.0	H	0.0	55.2	2.2	21.0	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)
1198.250000	30.0	151.0	V	304.0	38.2	-8.2	24.0	54
1372.000000	31.0	151.0	H	277.0	38.2	-7.2	23.0	54
1632.250000	33.4	150.0	V	304.0	38.1	-4.7	20.6	54
1998.250000	35.0	150.0	V	272.0	38.4	-3.4	19.0	54
2662.250000	38.7	150.0	H	65.0	39.0	0.3	15.3	54
2983.500000	41.9	151.0	H	121.0	44.1	2.2	12.1	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

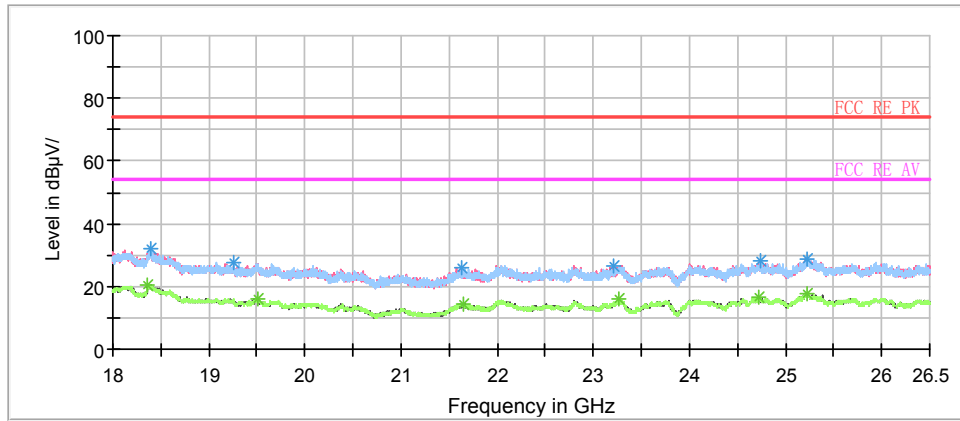
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3945.000000	40.7	151.0	V	0.0	40.8	-0.1	33.3	74
5375.625000	44.2	151.0	H	0.0	47.9	-3.7	29.8	74
6885.000000	45.9	150.0	V	51.0	52.8	-6.9	28.1	74
9793.125000	47.9	150.0	H	181.0	60.1	-12.2	26.1	74
13312.500000	51.3	150.0	V	22.0	66.8	-15.5	22.7	74
17996.250000	60.0	151.0	H	0.0	85.4	-25.4	14.0	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)
4006.875000	29.9	151.0	H	224.0	30.4	-0.5	24.1	54
5223.750000	32.2	151.0	H	197.0	35.8	-3.6	21.8	54
6911.250000	35.2	150.0	H	338.0	42.1	-6.9	18.8	54
9798.750000	37.0	150.0	H	0.0	49.3	-12.3	17.0	54
13003.125000	40.6	150.0	H	166.0	56.8	-16.2	13.4	54
17981.250000	49.4	151.0	V	138.0	74.6	-25.2	4.6	54

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

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	31.9	V	348.0	36.8	-4.9	42.1	74
19253.750000	27.6	H	10.0	34.4	-6.8	46.4	74
21629.500000	26.2	H	92.0	35.3	-9.1	47.8	74
23216.875000	26.5	V	222.0	34.9	-8.4	47.5	74
24735.187500	28.3	H	117.0	34.6	-6.3	45.7	74
25229.250000	28.8	H	204.0	34.7	-5.9	45.2	74

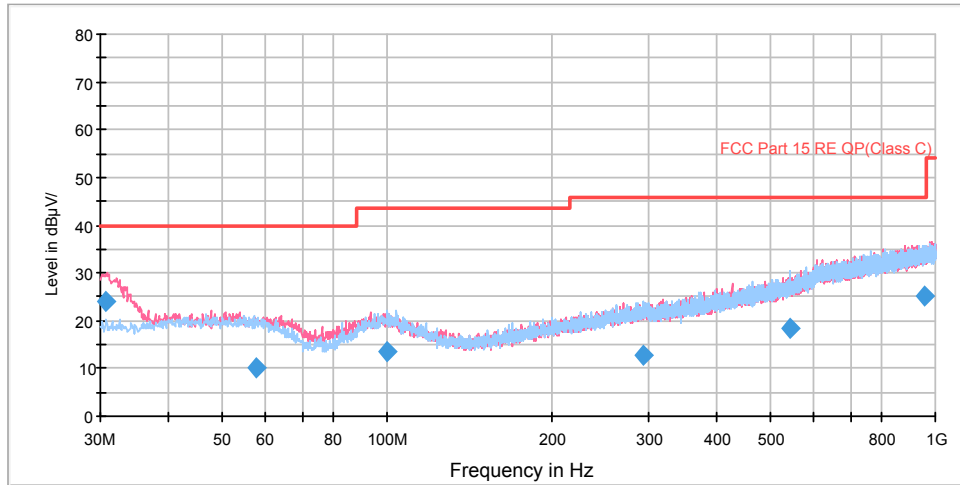
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18365.500000	20.6	V	188.0	25.4	-4.8	33.4	54
19503.437500	16.1	H	75.0	23.6	-7.5	37.9	54
21650.750000	14.5	H	0.0	23.7	-9.2	39.5	54
23271.062500	16.0	H	67.0	23.2	-7.2	38.0	54
24727.750000	16.4	H	0.0	22.6	-6.2	37.6	54
25225.000000	17.9	V	273.0	23.8	-5.9	36.1	54

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

802.11g CH6

FCC RE 0.03-1GHz QP Class C

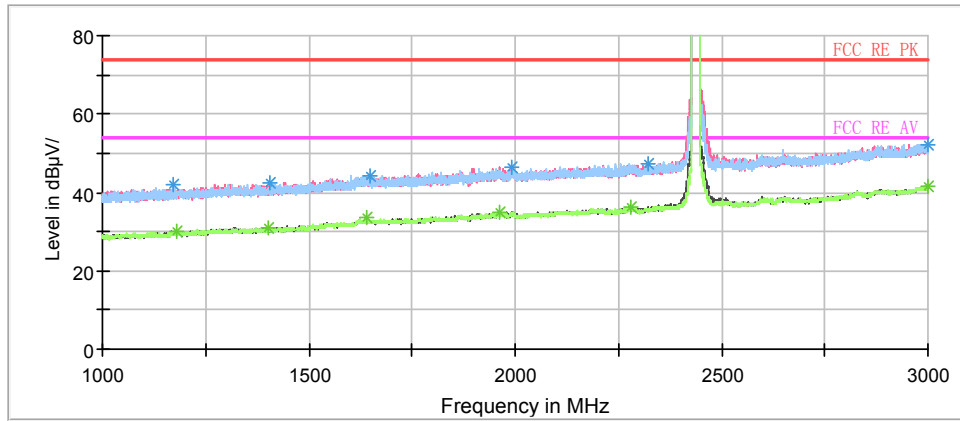


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.648750	24.0	114.0	V	14.0	35.9	11.9	16.0	40.0
57.640000	10.3	114.0	H	295.0	22.9	12.6	29.7	40.0
99.805000	13.6	125.0	H	134.0	26.8	13.2	29.9	43.5
294.318750	12.8	100.0	H	10.0	28.1	15.3	33.2	46.0
542.558750	18.3	100.0	H	34.0	39.2	20.9	27.7	46.0
955.293750	25.3	125.0	V	261.0	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

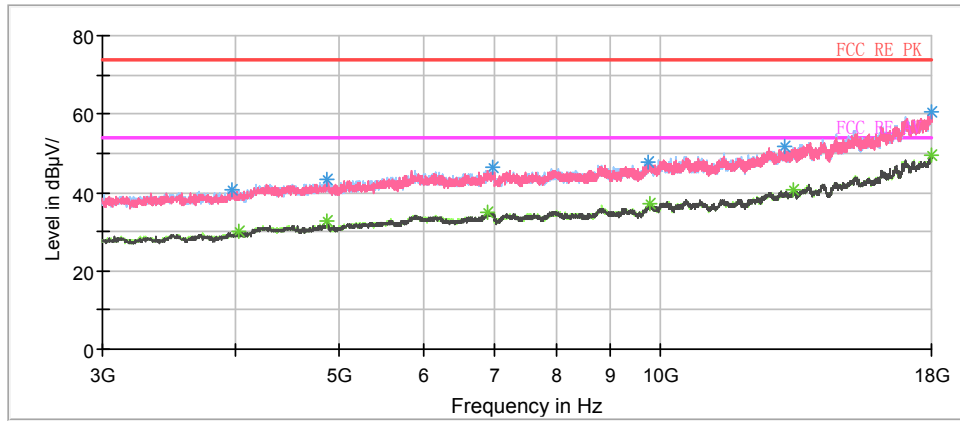
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1170.500000	41.8	151.0	H	0.0	49.9	-8.1	32.2	74
1405.250000	42.5	151.0	H	151.0	49.6	-7.1	31.5	74
1649.250000	44.3	150.0	H	94.0	49.4	-5.1	29.7	74
1992.750000	46.4	150.0	H	81.0	49.7	-3.3	27.6	74
2320.750000	47.4	150.0	H	101.0	49.1	-1.7	26.6	74
2999.750000	52.2	151.0	V	141.0	54.5	2.3	21.8	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)
1181.000000	30.2	151.0	H	67.0	38.2	-8.0	23.8	54
1402.750000	31.0	151.0	H	172.0	38.1	-7.1	23.0	54
1638.500000	33.4	150.0	H	116.0	38.1	-4.7	20.6	54
1961.750000	34.9	150.0	V	266.0	38.1	-3.2	19.1	54
2280.000000	36.4	150.0	H	205.0	37.7	-1.3	17.6	54
2998.250000	41.6	151.0	V	216.0	43.9	2.3	12.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

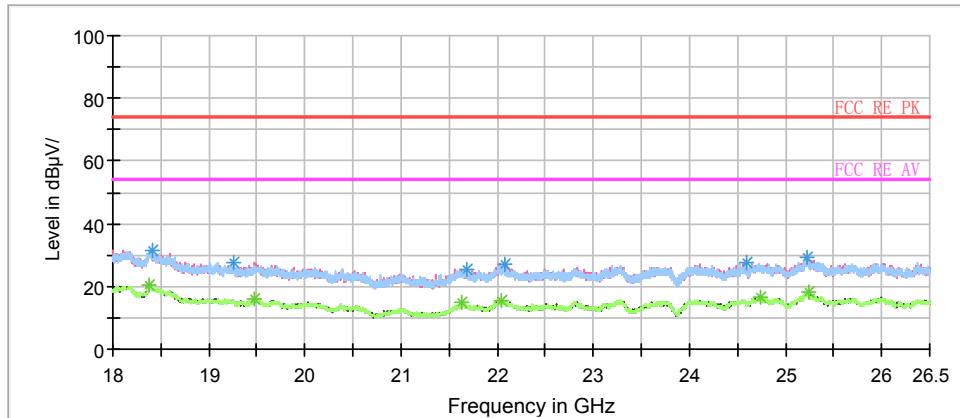
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3961.875000	40.9	151.0	H	0.0	41.1	0.2	33.1	74
4882.500000	43.2	151.0	V	314.0	46.2	3.0	30.8	74
6973.125000	46.3	150.0	H	334.0	52.9	6.6	27.7	74
9765.000000	47.8	150.0	H	0.0	59.6	11.8	26.2	74
13121.250000	51.9	150.0	V	133.0	67.8	15.9	22.1	74
17968.125000	60.5	151.0	H	274.0	85.5	25.0	13.5	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)
4029.375000	30.0	151.0	H	0.0	30.6	0.6	24.0	54
4875.000000	32.6	151.0	V	0.0	35.6	3.0	21.4	54
6901.875000	34.9	150.0	V	332.0	41.9	7.0	19.1	54
9810.000000	37.2	150.0	V	60.0	49.4	12.2	16.8	54
13336.875000	40.6	150.0	V	119.0	56.3	15.7	13.4	54
17994.375000	49.4	151.0	H	303.0	74.7	25.3	4.6	54

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

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)
18409.062500	31.4	H	126.0	36.4	-5.0	42.6	74
19251.625000	27.6	V	96.0	34.4	-6.8	46.4	74
21687.937500	25.6	H	208.0	34.9	-9.3	48.4	74
22078.937500	27.0	V	301.0	35.2	-8.2	47.0	74
24593.875000	27.4	H	143.0	35.0	-7.6	46.6	74
25230.312500	29.1	V	0.0	35.0	-5.9	44.9	74

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

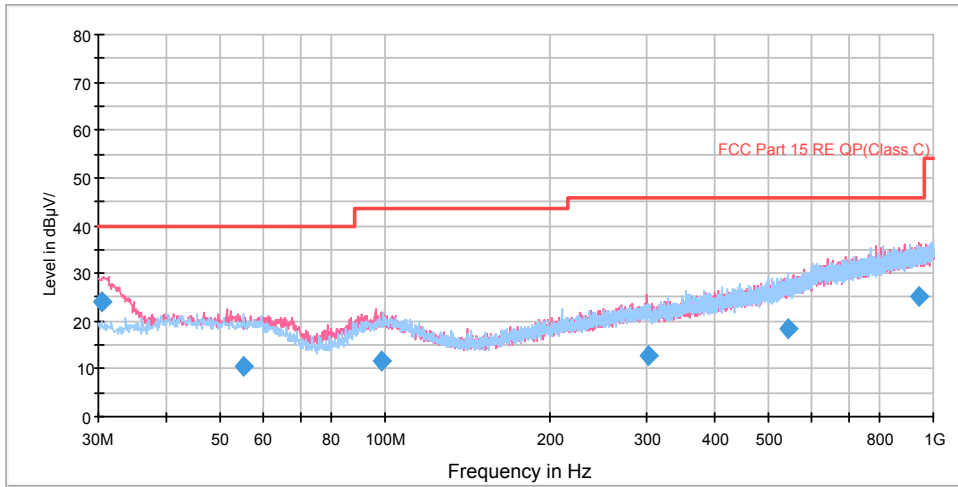
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18382.500000	20.4	H	0.0	25.2	-4.8	33.6	54
19475.812500	16.1	H	159.0	24.0	-7.9	37.9	54
21635.875000	14.8	V	285.0	23.9	-9.1	39.2	54
22040.687500	15.7	H	225.0	23.7	-8.0	38.3	54
24738.375000	16.4	H	19.0	22.8	-6.4	37.6	54
25234.562500	18.0	H	85.0	24.0	-6.0	36.0	54

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



802.11g CH11

FCC RE 0.03-1GHz QP Class C

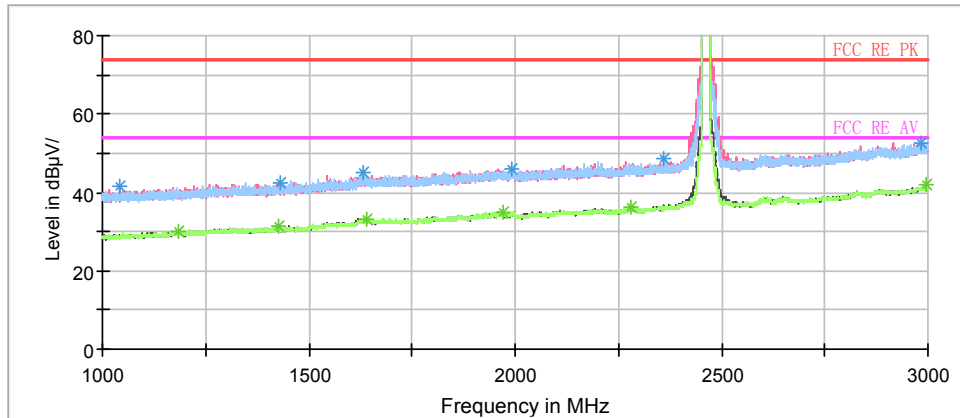


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.566250	24.0	100.0	V	244.0	35.9	11.9	16.0	40.0
55.140000	10.4	100.0	H	89.0	23.1	12.7	29.6	40.0
98.148750	11.5	100.0	V	112.0	24.5	13.0	32.0	43.5
301.432500	12.7	125.0	V	159.0	28.2	15.5	33.3	46.0
544.181250	18.4	100.0	H	79.0	39.3	20.9	27.6	46.0
943.133750	25.2	114.0	V	352.0	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

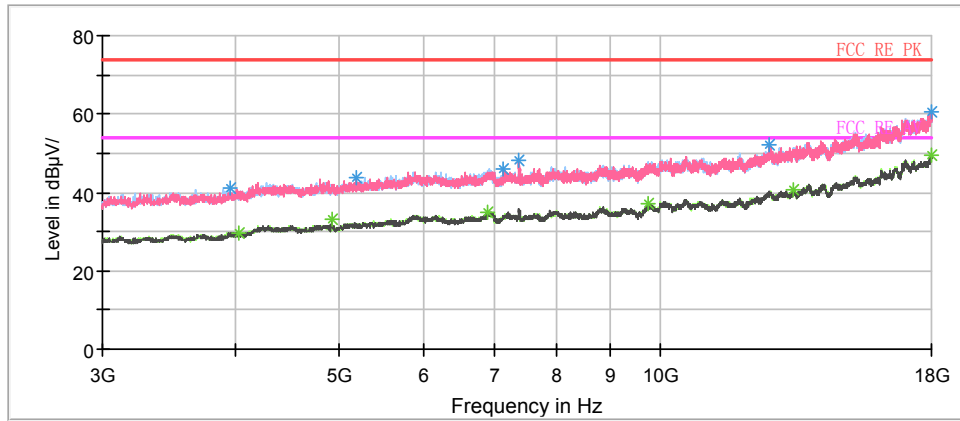
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1043.500000	41.3	151.0	V	78.0	50.3	-9.0	32.7	74
1430.750000	42.3	151.0	V	279.0	49.2	-6.9	31.7	74
1631.000000	45.2	150.0	H	94.0	49.9	-4.7	28.8	74
1990.250000	46.1	150.0	H	1.0	49.4	-3.3	27.9	74
2361.250000	48.4	150.0	V	357.0	49.8	-1.4	25.6	74
2985.250000	52.7	151.0	V	228.0	54.9	2.2	21.3	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)
1184.500000	29.9	151.0	V	286.0	38.0	-8.1	24.1	54
1426.750000	31.3	151.0	V	72.0	38.2	-6.9	22.7	54
1639.500000	33.3	150.0	H	101.0	38.0	-4.7	20.7	54
1969.500000	34.9	150.0	V	32.0	38.5	-3.6	19.1	54
2281.500000	36.3	150.0	V	357.0	37.7	-1.4	17.7	54
2994.750000	41.9	151.0	V	0.0	44.2	2.3	12.1	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

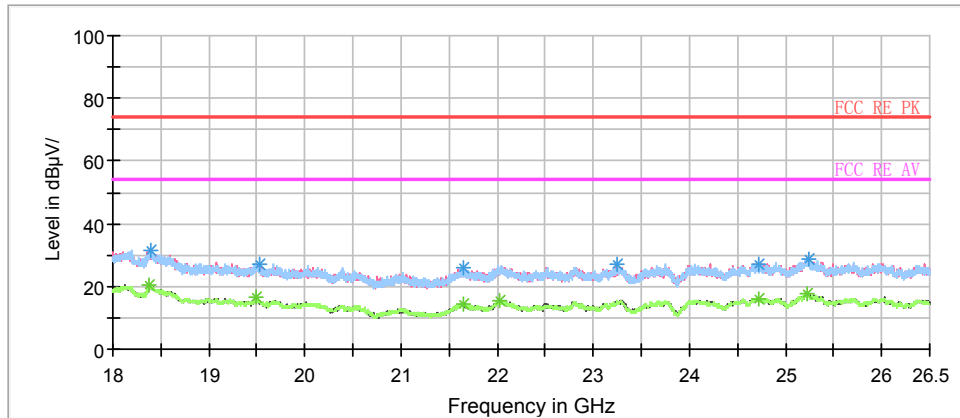
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3954.375000	40.9	151.0	H	77.0	41.1	0.2	33.1	74
5195.625000	43.8	151.0	V	45.0	47.4	3.6	30.2	74
7132.500000	45.8	150.0	V	0.0	54.1	8.3	28.2	74
7381.875000	48.3	150.0	V	0.0	56.3	8.0	25.7	74
12658.125000	52.0	150.0	V	282.0	66.9	14.9	22.0	74
17998.125000	60.5	151.0	V	331.0	85.9	25.4	13.5	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)
4033.125000	29.7	151.0	H	284.0	30.3	0.6	24.3	54
4923.750000	33.0	151.0	V	313.0	36.1	3.1	21.0	54
6890.625000	35.0	150.0	V	31.0	41.9	6.9	19.0	54
9755.625000	36.9	150.0	H	0.0	48.6	11.7	17.1	54
13350.000000	40.5	150.0	V	0.0	56.3	15.8	13.5	54
17998.125000	49.6	151.0	V	331.0	75.0	25.4	4.4	54

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

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	31.6	V	0.0	36.5	-4.9	42.4	74
19519.375000	27.0	V	156.0	34.4	-7.4	47.0	74
21646.500000	25.9	H	118.0	35.1	-9.2	48.1	74
23241.312500	26.8	H	168.0	34.6	-7.8	47.2	74
24727.750000	27.3	H	152.0	33.5	-6.2	46.7	74
25234.562500	28.8	H	51.0	34.8	-6.0	45.2	74

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

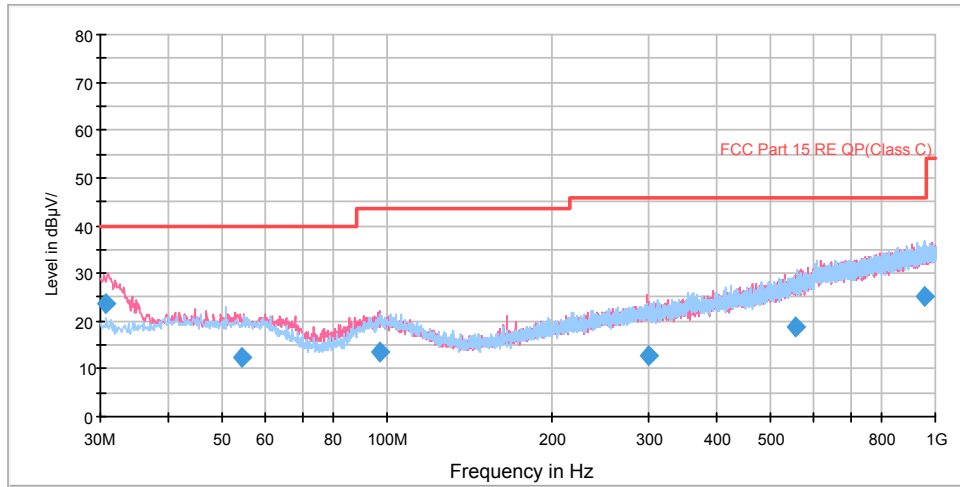
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18383.562500	20.4	H	253.0	25.2	-4.8	33.6	54
19497.062500	16.5	V	283.0	24.0	-7.5	37.5	54
21642.250000	14.3	V	274.0	23.4	-9.1	39.7	54
22023.687500	15.5	V	334.0	23.5	-8.0	38.5	54
24725.625000	16.2	V	207.0	22.4	-6.2	37.8	54
25232.437500	17.9	V	257.0	23.8	-5.9	36.1	54

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



802.11n (HT20) CH1

FCC RE 0.03-1GHz QP Class C

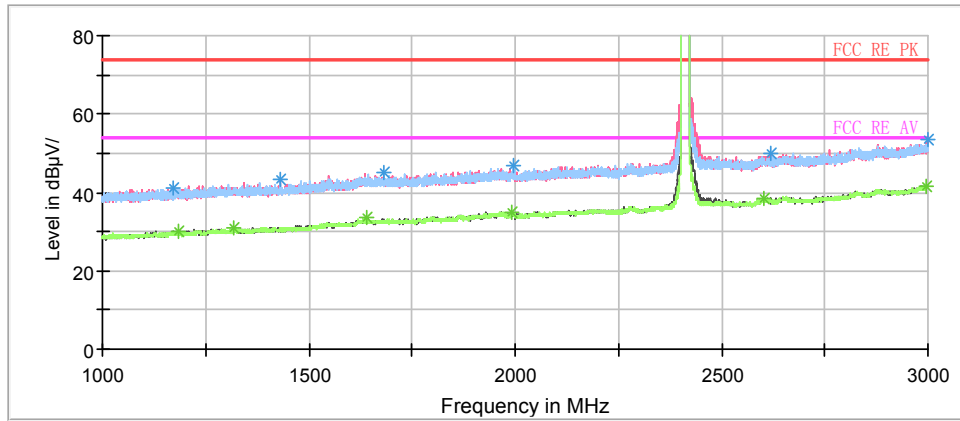


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.770000	23.7	114.0	V	93.0	35.6	11.9	16.3	40.0
54.256250	12.5	100.0	V	269.0	25.3	12.8	27.5	40.0
97.207500	13.5	125.0	V	286.0	26.4	12.9	30.0	43.5
299.411250	12.8	125.0	V	317.0	28.2	15.4	33.2	46.0
555.987500	18.7	100.0	V	264.0	39.9	21.2	27.3	46.0
958.210000	25.3	100.0	H	341.0	51.5	26.2	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

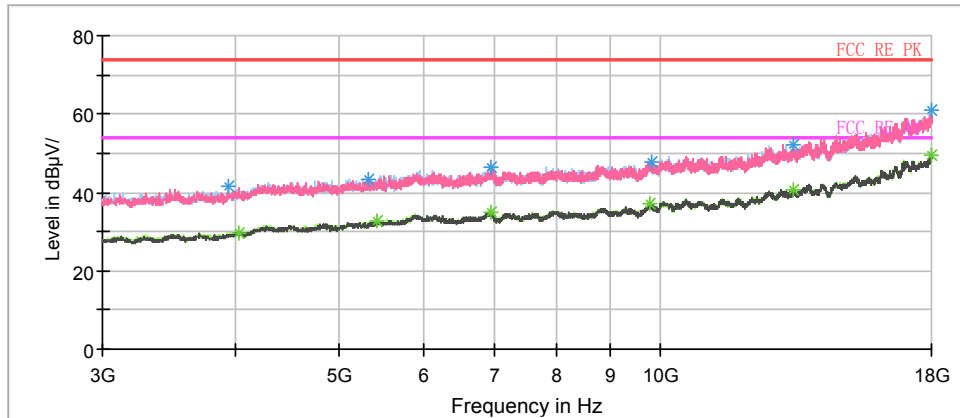
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1171.500000	41.2	151.0	H	237.0	49.3	-8.1	32.8	74
1430.750000	43.1	151.0	V	351.0	50.0	-6.9	30.9	74
1682.000000	44.9	150.0	H	82.0	49.9	-5.0	29.1	74
1994.750000	47.0	150.0	H	307.0	50.2	-3.2	27.0	74
2617.250000	49.8	150.0	V	92.0	49.8	0.0	24.2	74
2999.000000	53.3	151.0	V	344.0	55.6	2.3	20.7	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)
1182.750000	30.0	151.0	H	243.0	38.0	-8.0	24.0	54
1318.500000	31.1	151.0	V	225.0	38.5	-7.4	22.9	54
1638.500000	33.4	150.0	H	12.0	38.1	-4.7	20.6	54
1991.000000	35.0	150.0	H	190.0	38.3	-3.3	19.0	54
2601.250000	38.4	150.0	H	39.0	38.8	0.4	15.6	54
2994.250000	41.6	151.0	V	149.0	43.9	2.3	12.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

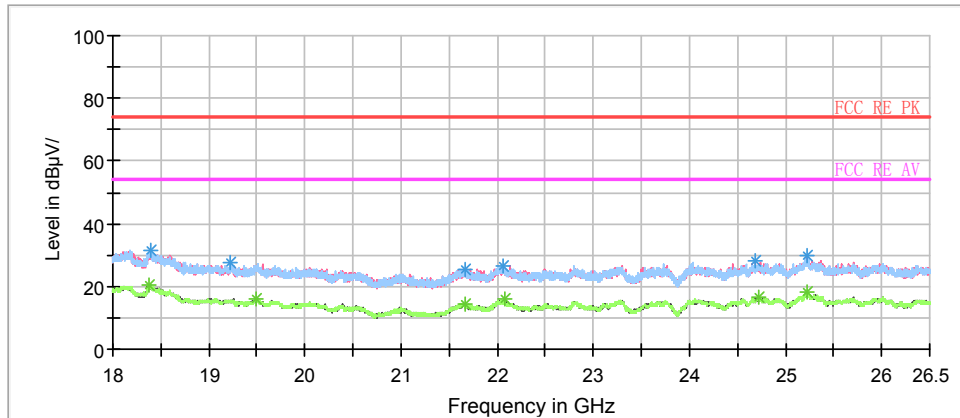
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3941.250000	41.5	151.0	H	342.0	41.6	0.1	32.5	74
5328.750000	43.3	151.0	H	0.0	47.1	3.8	30.7	74
6950.625000	46.3	150.0	H	166.0	53.0	6.7	27.7	74
9847.500000	47.7	150.0	V	121.0	59.5	11.8	26.3	74
13351.875000	52.2	150.0	H	356.0	68.0	15.8	21.8	74
17994.375000	61.1	151.0	H	328.0	86.4	25.3	12.9	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)
4027.500000	29.8	151.0	H	108.0	30.4	0.6	24.2	54
5439.375000	32.6	151.0	H	0.0	36.4	3.8	21.4	54
6939.375000	35.0	150.0	H	136.0	41.8	6.8	19.0	54
9795.000000	37.2	150.0	H	313.0	49.4	12.2	16.8	54
13351.875000	40.7	150.0	H	356.0	56.5	15.8	13.3	54
18000.000000	49.7	151.0	V	5.0	75.1	25.4	4.3	54

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

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	31.5	H	0.0	36.4	-4.9	42.5	74
19229.312500	27.4	H	79.0	34.2	-6.8	46.6	74
21673.062500	25.7	H	121.0	35.0	-9.3	48.3	74
22067.250000	26.6	V	169.0	34.7	-8.1	47.4	74
24688.437500	28.1	V	135.0	35.1	-7.0	45.9	74
25215.437500	29.7	V	0.0	35.8	-6.1	44.3	74

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

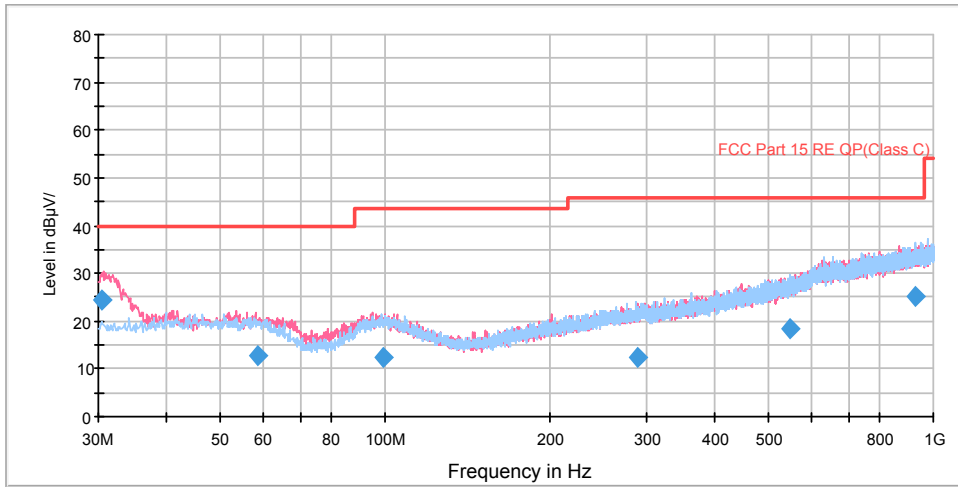
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18381.437500	20.3	V	211.0	25.1	-4.8	33.7	54
19494.937500	16.3	H	34.0	23.9	-7.6	37.7	54
21661.375000	14.5	H	145.0	23.7	-9.2	39.5	54
22081.062500	15.8	H	154.0	24.1	-8.3	38.2	54
24725.625000	16.4	V	318.0	22.6	-6.2	37.6	54
25231.375000	18.3	H	162.0	24.2	-5.9	35.7	54

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



802.11n (HT20) CH6

FCC RE 0.03-1GHz QP Class C

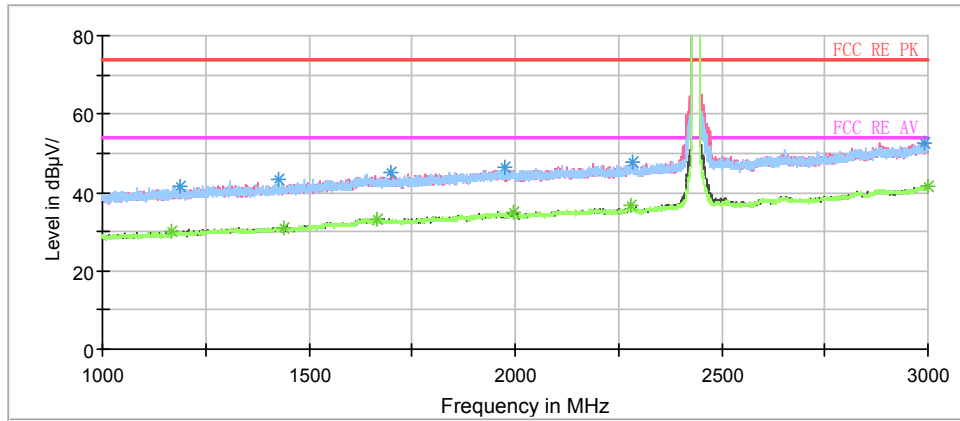


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.406250	24.4	100.0	V	69.0	36.3	11.9	15.6	40.0
58.528750	12.8	125.0	V	158.0	25.4	12.6	27.2	40.0
99.482500	12.4	125.0	V	256.0	25.5	13.1	31.1	43.5
288.256250	12.5	125.0	H	251.0	27.6	15.1	33.5	46.0
546.686250	18.3	100.0	H	117.0	39.2	20.9	27.7	46.0
930.407500	25.0	100.0	H	232.0	50.9	25.9	21.0	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1189.250000	41.7	151.0	H	0.0	49.9	-8.2	32.3	74
1427.750000	43.1	151.0	H	9.0	50.0	-6.9	30.9	74
1699.000000	45.2	150.0	V	201.0	50.2	-5.0	28.8	74
1976.250000	46.3	150.0	H	83.0	50.0	-3.7	27.7	74
2283.250000	47.6	150.0	V	0.0	49.0	-1.4	26.4	74
2993.000000	52.7	151.0	H	35.0	54.9	2.2	21.3	74

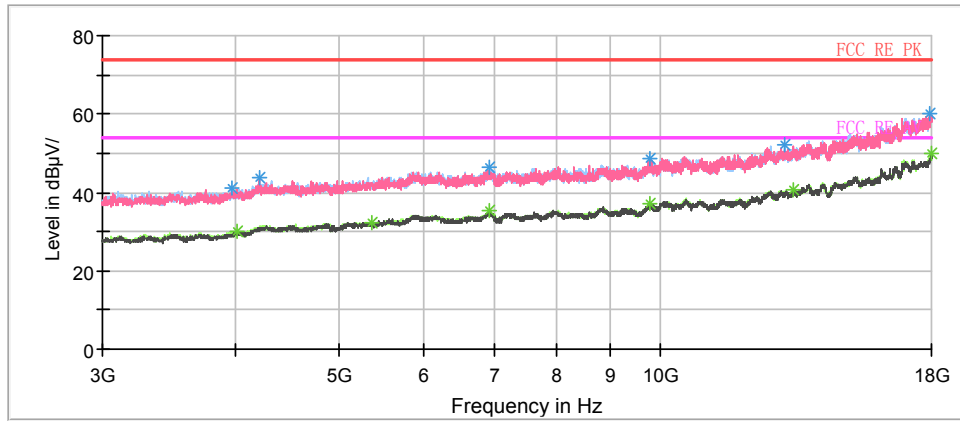
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1168.250000	29.9	151.0	H	0.0	38.0	-8.1	24.1	54
1437.750000	31.1	151.0	H	198.0	38.0	-6.9	22.9	54
1667.250000	33.2	150.0	V	326.0	38.3	-5.1	20.8	54
1994.250000	35.0	150.0	H	111.0	38.2	-3.2	19.0	54
2280.250000	36.6	150.0	V	69.0	37.9	-1.3	17.4	54
2999.750000	41.4	151.0	H	48.0	43.7	2.3	12.6	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

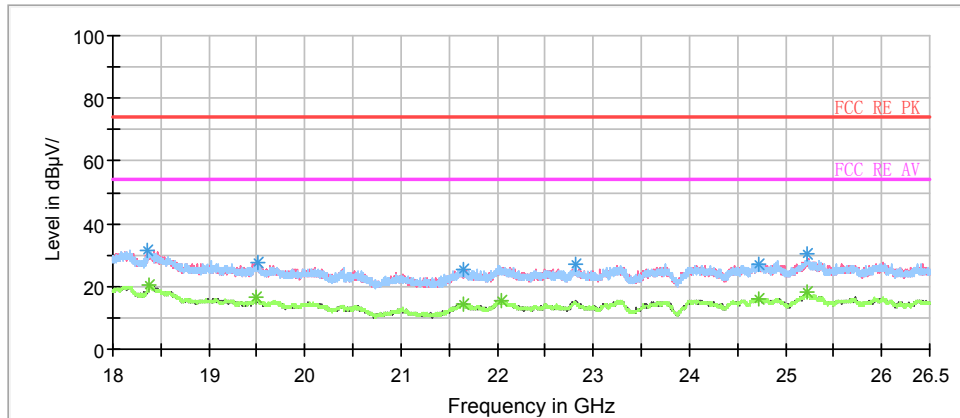
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3961.875000	41.1	151.0	H	93.0	41.3	0.2	32.9	74
4207.500000	43.8	151.0	V	165.0	45.6	1.8	30.2	74
6926.250000	46.4	150.0	H	258.0	53.2	6.8	27.6	74
9785.625000	48.6	150.0	V	0.0	60.7	12.1	25.4	74
13083.750000	52.0	150.0	H	316.0	68.2	16.2	22.0	74
17958.750000	60.3	151.0	V	0.0	85.2	24.9	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)
4018.125000	29.9	151.0	H	93.0	30.4	0.5	24.1	54
5373.750000	32.5	151.0	H	170.0	36.2	3.7	21.5	54
6916.875000	35.1	150.0	H	78.0	42.0	6.9	18.9	54
9785.625000	37.0	150.0	V	0.0	49.1	12.1	17.0	54
13351.875000	40.6	150.0	H	0.0	56.4	15.8	13.4	54
17988.750000	49.9	151.0	H	344.0	75.2	25.3	4.1	54

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

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)
18367.625000	31.4	V	198.0	36.2	-4.8	42.6	74
19504.500000	27.9	V	62.0	35.4	-7.5	46.1	74
21652.875000	25.5	H	239.0	34.7	-9.2	48.5	74
22823.750000	27.2	H	148.0	34.6	-7.4	46.8	74
24720.312500	27.2	V	348.0	33.5	-6.3	46.8	74
25218.625000	30.2	H	89.0	36.2	-6.0	43.8	74

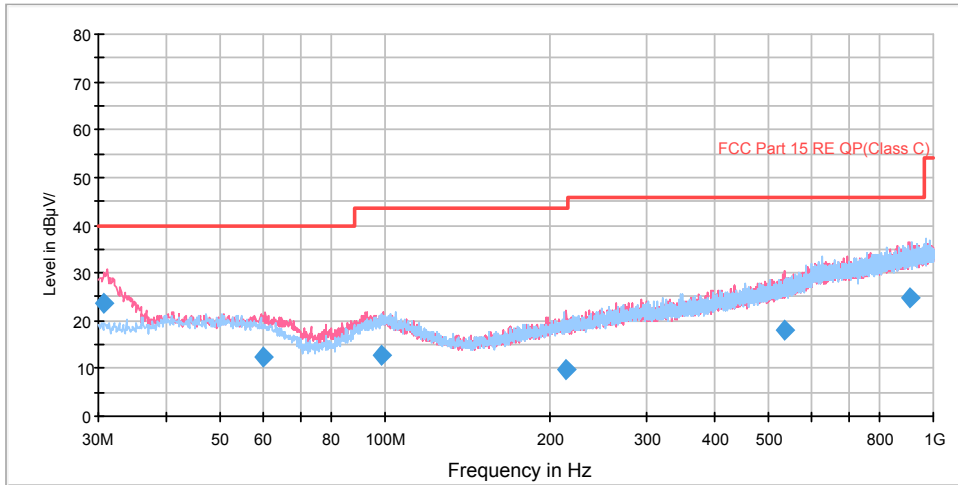
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18381.437500	20.3	V	0.0	25.1	-4.8	33.7	54
19490.687500	16.3	V	215.0	23.9	-7.6	37.7	54
21656.062500	14.5	V	105.0	23.7	-9.2	39.5	54
22040.687500	15.5	H	131.0	23.5	-8.0	38.5	54
24727.750000	16.2	V	62.0	22.4	-6.2	37.8	54
25229.250000	18.0	V	307.0	23.9	-5.9	36.0	54

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

802.11n (HT20) CH11

FCC RE 0.03-1GHz QP Class C

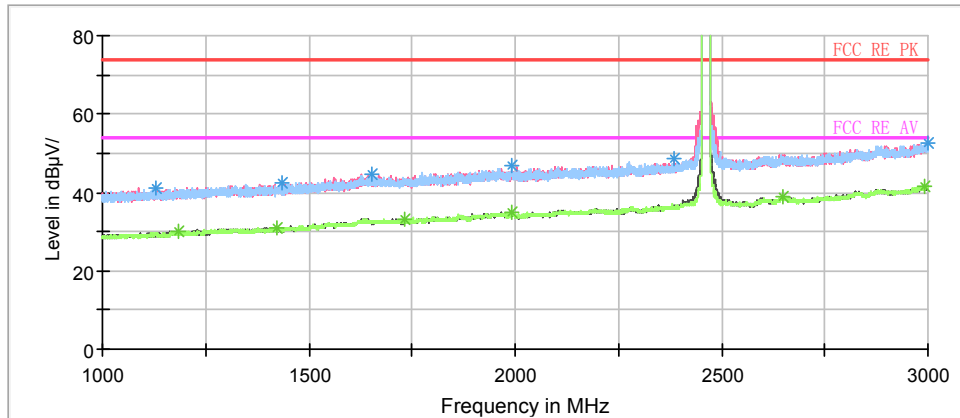


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.612500	23.5	100.0	V	253.0	35.4	11.9	16.5	40.0
60.035000	12.5	100.0	V	160.0	25.0	12.5	27.5	40.0
98.876250	12.8	125.0	V	254.0	25.9	13.1	30.7	43.5
214.022500	9.7	100.0	V	0.0	22.4	12.7	33.8	43.5
536.341250	18.2	114.0	V	0.0	38.9	20.7	27.8	46.0
903.965000	24.7	114.0	V	151.0	50.4	25.7	21.3	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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

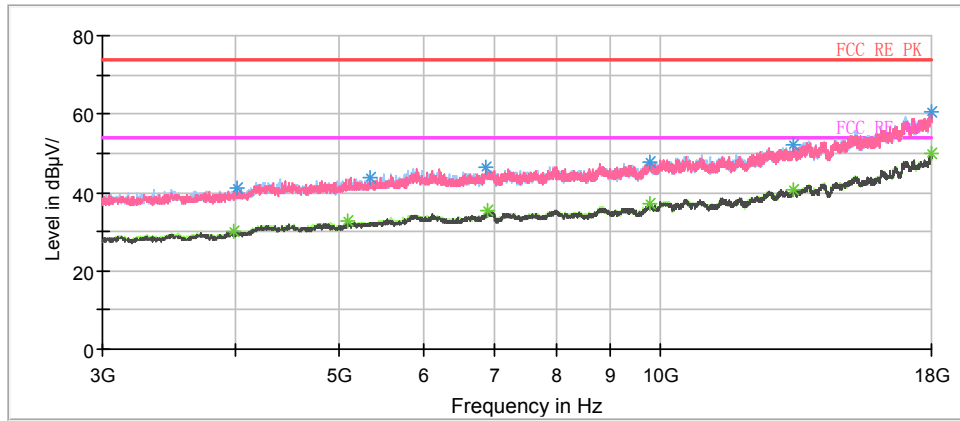
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1128.250000	40.9	151.0	V	221.0	49.3	-8.4	33.1	74
1435.250000	42.4	151.0	H	37.0	49.3	-6.9	31.6	74
1653.750000	44.8	150.0	H	0.0	49.9	-5.1	29.2	74
1993.250000	46.7	150.0	H	335.0	50.0	-3.3	27.3	74
2385.750000	48.5	150.0	V	62.0	49.9	-1.4	25.5	74
2998.500000	52.4	151.0	H	205.0	54.7	2.3	21.6	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)
1183.000000	30.0	151.0	H	17.0	38.0	-8.0	24.0	54
1421.000000	30.9	151.0	V	337.0	37.8	-6.9	23.1	54
1730.750000	33.2	150.0	H	17.0	38.1	-4.9	20.8	54
1993.500000	34.9	150.0	H	64.0	38.2	-3.3	19.1	54
2646.500000	38.8	150.0	V	32.0	39.1	0.3	15.2	54
2991.500000	41.8	151.0	V	264.0	44.0	2.2	12.2	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

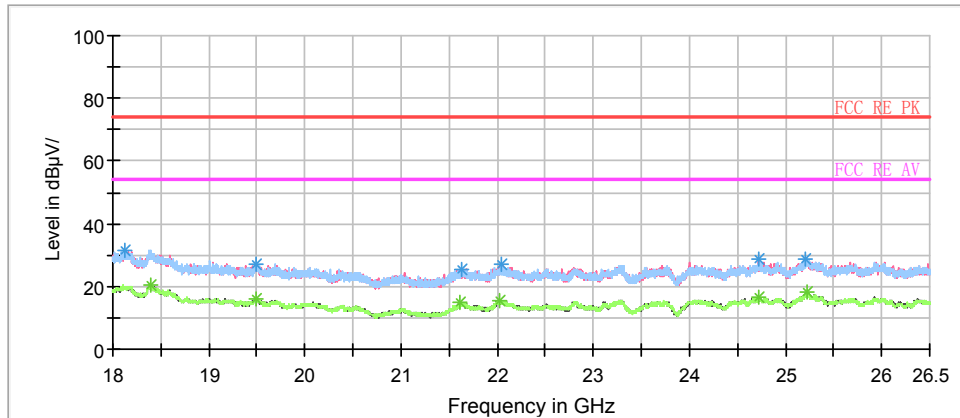
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4016.250000	41.1	151.0	H	182.0	41.6	0.5	32.9	74
5349.375000	43.6	151.0	H	61.0	47.4	3.8	30.4	74
6877.500000	46.2	150.0	V	0.0	53.0	6.8	27.8	74
9802.500000	47.6	150.0	V	283.0	59.9	12.3	26.4	74
13350.000000	51.9	150.0	V	0.0	67.7	15.8	22.1	74
17979.375000	60.6	151.0	H	331.0	85.8	25.2	13.4	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)
3982.500000	30.2	151.0	H	299.0	30.6	0.4	23.8	54
5105.625000	32.7	151.0	H	182.0	36.3	3.6	21.3	54
6900.000000	35.3	150.0	V	91.0	42.3	7.0	18.7	54
9810.000000	37.0	150.0	V	163.0	49.2	12.2	17.0	54
13336.875000	40.8	150.0	V	77.0	56.5	15.7	13.2	54
18000.000000	49.9	151.0	V	34.0	75.3	25.4	4.1	54

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

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)
18132.812500	31.7	H	173.0	36.6	-4.9	42.3	74
19500.250000	27.1	H	156.0	34.6	-7.5	46.9	74
21626.312500	25.7	H	13.0	34.8	-9.1	48.3	74
22039.625000	26.9	H	207.0	34.9	-8.0	47.1	74
24712.875000	28.6	V	233.0	35.1	-6.5	45.4	74
25201.625000	28.6	V	225.0	35.1	-6.5	45.4	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)
18388.875000	20.6	H	303.0	25.5	-4.9	33.4	54
19488.562500	16.2	V	250.0	23.9	-7.7	37.8	54
21616.750000	14.7	V	325.0	23.6	-8.9	39.3	54
22027.937500	15.5	H	140.0	23.4	-7.9	38.5	54
24727.750000	16.5	H	115.0	22.7	-6.2	37.5	54
25218.625000	18.1	V	131.0	24.1	-6.0	35.9	54

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

5.8. Conducted Emission

Ambient condition

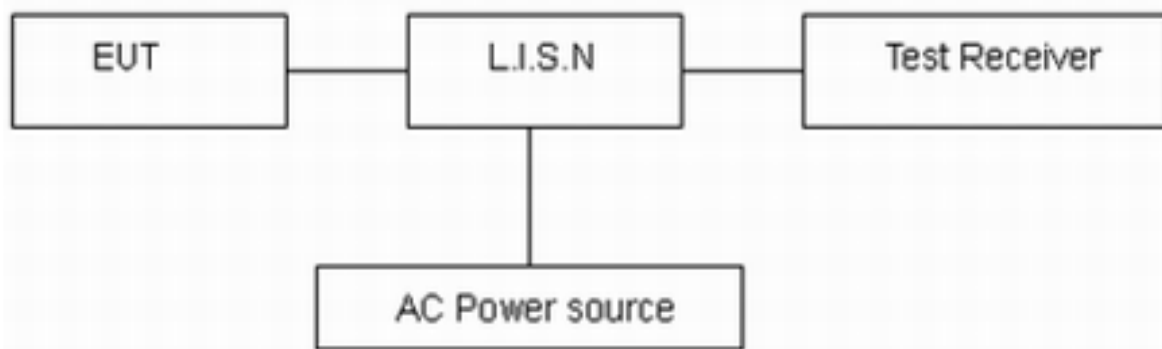
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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 (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

*: Decreases with the logarithm of the frequency.

Measurement Uncertainty

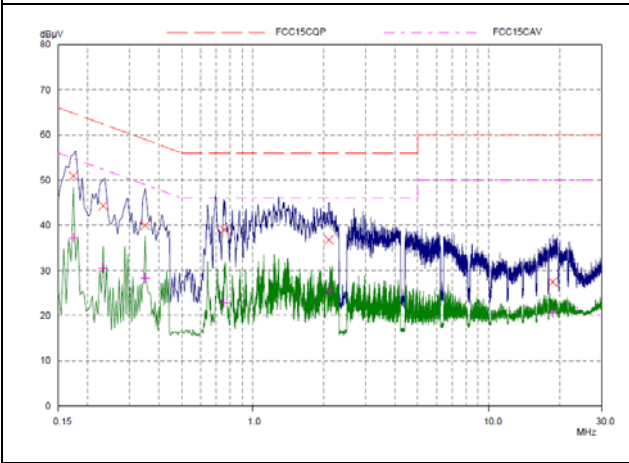
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.



Test Results:

Following plots, Blue trace uses the peak detection, Green trace uses the average detection.

802.11b, Channel No.: 1 L Line

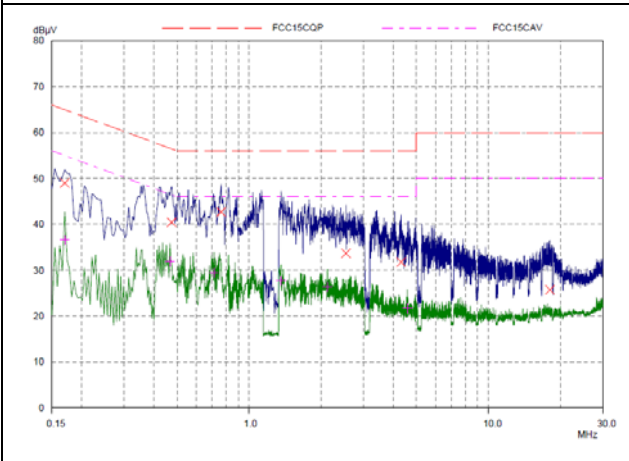


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.17343	50.92	64.79	13.87	L1	gnd
0.23203	44.33	62.38	18.05	L1	gnd
0.34921	39.98	58.98	19.00	L1	gnd
0.75546	39.00	56.00	17.00	L1	gnd
2.09921	36.76	56.00	19.24	L1	gnd
18.66562	27.44	60.00	32.56	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.17343	37.21	54.79	17.58	L1	gnd
0.23203	30.53	52.38	21.85	L1	gnd
0.34921	28.30	48.98	20.68	L1	gnd
0.75546	22.78	46.00	23.22	L1	gnd
2.09921	25.56	46.00	20.44	L1	gnd
18.66562	20.57	50.00	29.43	L1	gnd

802.11b, Channel No.: 1 N Line

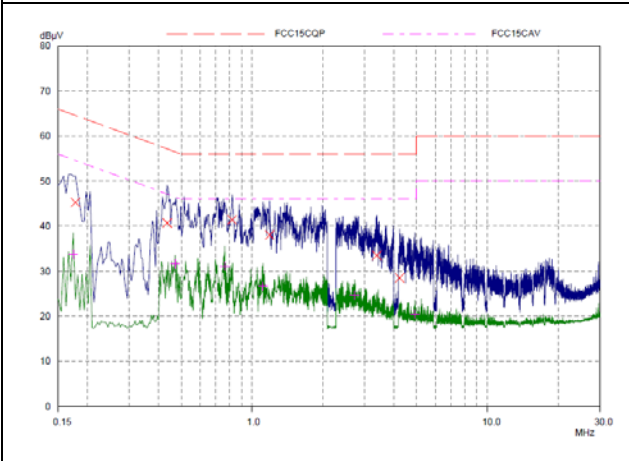


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16953	49.00	64.98	15.98	N	gnd
0.47421	40.46	56.44	15.98	N	gnd
0.76328	42.70	56.00	13.30	N	gnd
2.53671	33.68	56.00	22.32	N	gnd
4.31406	31.75	56.00	24.25	N	gnd
18.06015	25.74	60.00	34.26	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.16953	36.59	54.98	18.39	N	gnd
0.4664	31.85	46.58	14.73	N	gnd
0.7125	29.45	46.00	16.55	N	gnd
1.35703	27.71	46.00	18.29	N	gnd
2.12265	26.36	46.00	19.64	N	gnd
4.57578	21.80	46.00	24.20	N	gnd

802.11b, Channel No.: 6 L Line



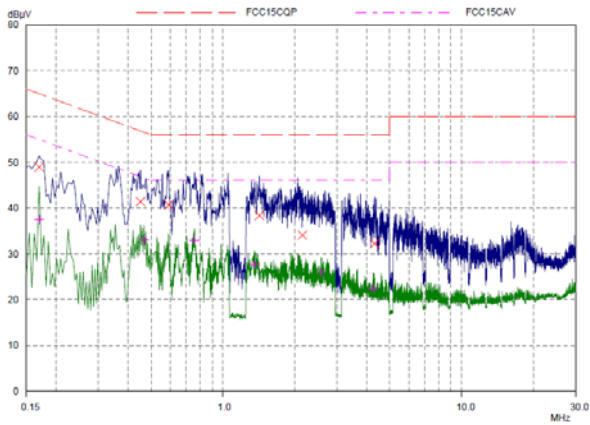
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.17734	45.28	64.61	19.33	L1	gnd
0.43515	40.71	57.15	16.44	L1	gnd
0.82187	41.39	56.00	14.61	L1	gnd
1.18515	38.04	56.00	17.96	L1	gnd
3.38437	33.52	56.00	22.48	L1	gnd
4.23203	28.51	56.00	27.49	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.17343	33.78	54.79	21.01	L1	gnd
0.47031	31.62	46.51	14.89	L1	gnd
0.76328	31.10	46.00	14.90	L1	gnd
1.11093	26.67	46.00	19.33	L1	gnd
2.72421	24.65	46.00	21.35	L1	gnd
4.91953	20.48	46.00	25.52	L1	gnd



802.11b, Channel No.: 6 N Line

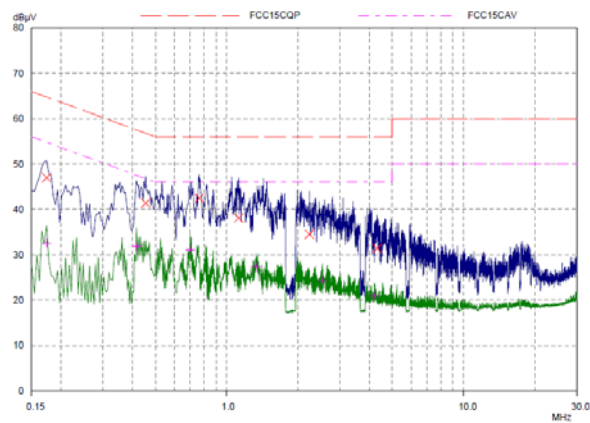


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16953	49.98	64.98	16.00	N	gnd
0.45078	41.43	56.86	15.43	N	gnd
0.5914	40.75	56.00	15.25	N	gnd
1.41953	38.38	56.00	17.62	N	gnd
2.15	34.10	56.00	21.90	N	gnd
4.31796	32.25	56.00	23.75	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.16953	37.44	54.98	17.54	N	gnd
0.4664	33.07	46.58	13.51	N	gnd
0.75937	32.95	46.00	13.05	N	gnd
1.35703	27.65	46.00	18.35	N	gnd
2.57578	25.98	46.00	20.02	N	gnd
4.25546	22.55	46.00	23.45	N	gnd

802.11b, Channel No.: 11 L Line

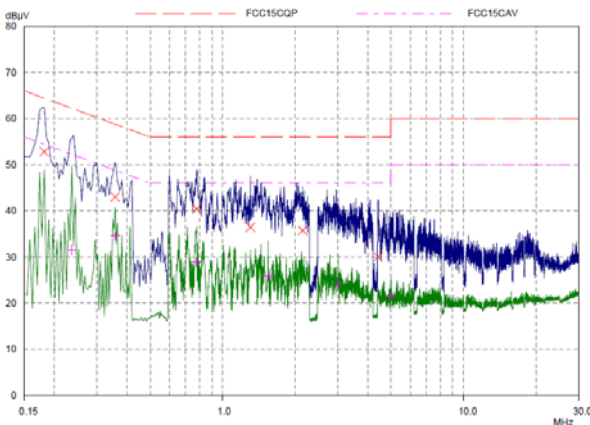


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.17343	47.00	64.79	17.79	L1	gnd
0.45468	41.41	56.79	15.38	L1	gnd
0.76328	42.49	56.00	13.51	L1	gnd
1.12265	38.12	56.00	17.88	L1	gnd
2.23203	34.54	56.00	21.46	L1	gnd
4.31015	31.39	56.00	24.61	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.17343	32.62	54.79	22.17	L1	gnd
0.41562	31.82	47.54	15.72	L1	gnd
0.70078	31.10	46.00	14.90	L1	gnd
1.32968	27.38	46.00	18.62	L1	gnd
2.53281	24.41	46.00	21.59	L1	gnd
4.19687	21.01	46.00	24.99	L1	gnd

802.11b, Channel No.: 11 N Line

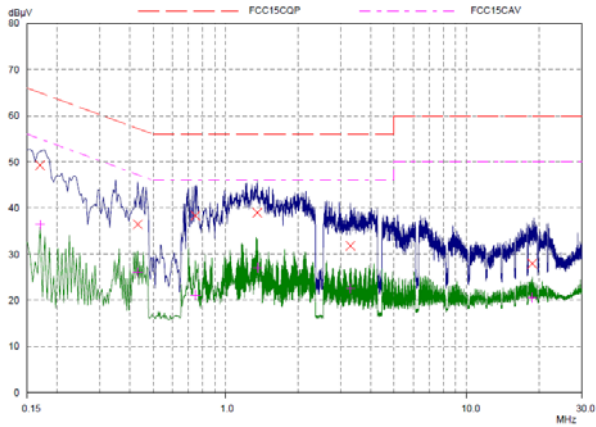


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.18125	52.81	64.43	11.62	N	gnd
0.35703	43.02	58.80	15.78	N	gnd
0.7789	40.39	56.00	15.61	N	gnd
1.30234	36.48	56.00	19.52	N	gnd
2.14609	35.75	56.00	20.25	N	gnd
4.40781	30.07	56.00	25.93	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.23593	31.52	52.24	20.72	N	gnd
0.35703	34.53	48.80	14.27	N	gnd
0.7789	28.88	46.00	17.12	N	gnd
1.54062	25.80	46.00	20.20	N	gnd
3.01328	24.23	46.00	21.77	N	gnd
4.99765	21.54	46.00	24.46	N	gnd

802.11g, Channel No.: 1 L Line

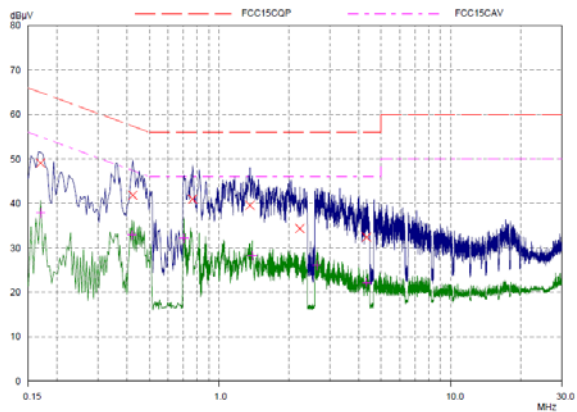


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16953	49.27	64.98	15.71	L1	gnd
0.43125	36.49	57.23	20.74	L1	gnd
0.74765	38.33	56.00	17.67	L1	gnd
1.35312	39.01	56.00	16.99	L1	gnd
3.29453	31.81	56.00	24.19	L1	gnd
18.72812	27.96	60.00	32.04	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.16953	36.43	54.98	18.55	L1	gnd
0.43125	26.12	47.23	21.11	L1	gnd
0.74765	21.16	46.00	24.84	L1	gnd
1.35312	27.08	46.00	18.92	L1	gnd
3.29453	22.67	46.00	23.33	L1	gnd
18.72812	20.53	50.00	29.47	L1	gnd

802.11g, Channel No.: 1 N Line

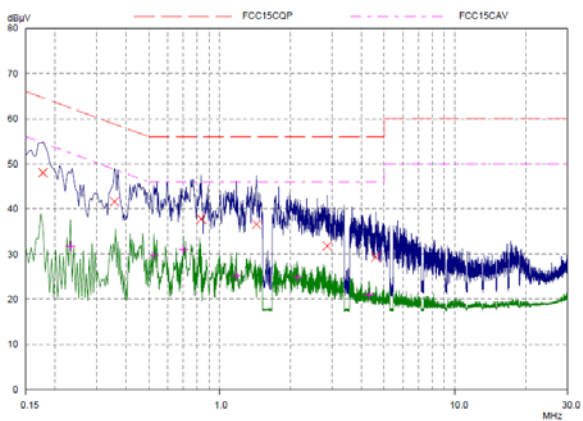


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16953	49.08	64.98	15.90	N	gnd
0.42343	41.83	57.38	15.55	N	gnd
0.76718	40.97	56.00	15.03	N	gnd
1.35703	39.54	56.00	16.46	N	gnd
2.22812	34.36	56.00	21.64	N	gnd
4.32187	32.38	56.00	23.62	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.16953	37.87	54.98	17.11	N	gnd
0.41953	32.88	47.46	14.58	N	gnd
0.70468	32.14	46.00	13.86	N	gnd
1.38828	28.29	46.00	17.71	N	gnd
2.63437	26.05	46.00	19.95	N	gnd
4.32187	22.17	46.00	23.83	N	gnd

802.11g, Channel No.: 6 L Line



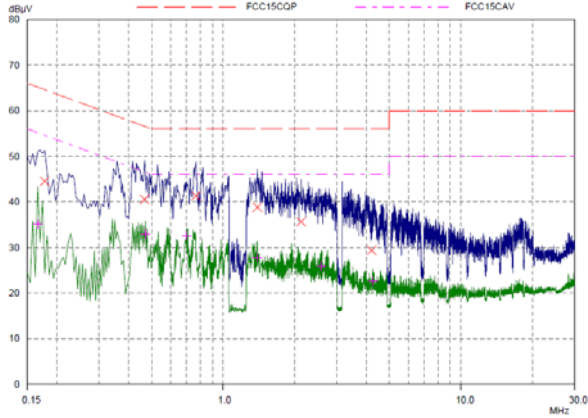
Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.17734	48.04	64.61	16.57	L1	gnd
0.35703	41.60	58.80	17.20	L1	gnd
0.83359	37.81	56.00	18.19	L1	gnd
1.43515	36.59	56.00	19.41	L1	gnd
2.86484	31.81	56.00	24.19	L1	gnd
4.61093	29.31	56.00	26.69	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.23203	31.67	52.38	20.71	L1	gnd
0.525	29.69	46.00	16.31	L1	gnd
0.70078	30.95	46.00	15.05	L1	gnd
1.17734	25.22	46.00	20.78	L1	gnd
2.13437	24.87	46.00	21.13	L1	gnd
4.31015	20.90	46.00	25.10	L1	gnd



802.11g, Channel No.: 6 N Line

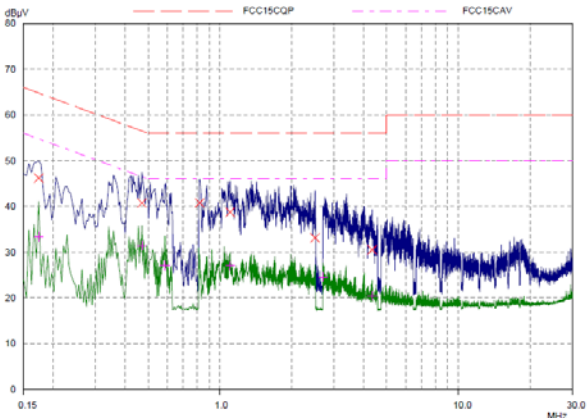


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.17734	44.51	64.61	20.10	N	gnd
0.4664	40.57	56.58	16.01	N	gnd
0.76718	41.33	56.00	14.67	N	gnd
1.39218	38.82	56.00	17.18	N	gnd
2.12656	35.63	56.00	20.37	N	gnd
4.20859	29.37	56.00	26.63	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.16562	35.06	55.18	20.12	N	gnd
0.47031	32.89	46.51	13.62	N	gnd
0.70078	32.52	46.00	13.48	N	gnd
1.39218	27.82	46.00	18.18	N	gnd
2.5875	25.92	46.00	20.08	N	gnd
4.25937	22.56	46.00	23.44	N	gnd

802.11g, Channel No.: 11 L Line

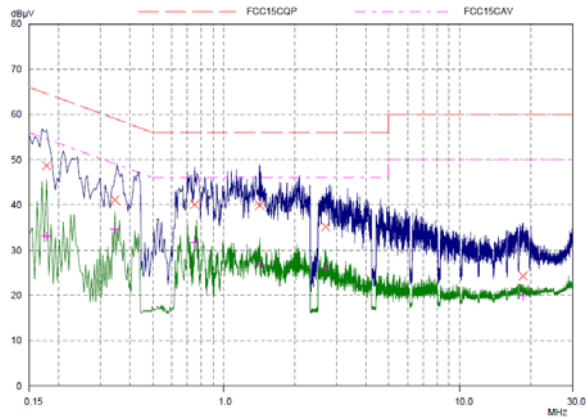


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.17343	46.22	64.79	18.57	L1	gnd
0.47031	40.77	56.51	15.74	L1	gnd
0.82187	40.81	56.00	15.19	L1	gnd
1.10312	38.76	56.00	17.24	L1	gnd
2.50156	33.12	56.00	22.88	L1	gnd
4.34531	30.53	56.00	25.47	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.17343	33.39	54.79	21.40	L1	gnd
0.47031	31.41	46.51	15.10	L1	gnd
0.5875	27.10	46.00	18.90	L1	gnd
1.10312	27.02	46.00	18.98	L1	gnd
2.70859	24.57	46.00	21.43	L1	gnd
4.34921	20.47	46.00	25.53	L1	gnd

802.11g, Channel No.: 11 N Line

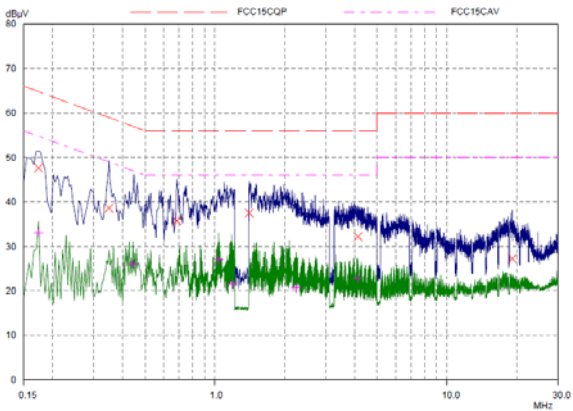


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.17734	48.65	64.61	15.96	N	gnd
0.34531	41.14	59.07	17.93	N	gnd
0.75156	40.09	56.00	15.91	N	gnd
1.41953	39.95	56.00	16.05	N	gnd
2.70078	35.19	56.00	20.81	N	gnd
18.54453	24.29	60.00	35.71	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.17734	32.99	54.61	21.62	N	gnd
0.34531	34.55	49.07	14.52	N	gnd
0.75156	31.78	46.00	14.22	N	gnd
1.41953	26.86	46.00	19.14	N	gnd
2.70078	25.99	46.00	20.01	N	gnd
18.54453	19.86	50.00	30.14	N	gnd

802.11n(HT20), Channel No.: 1 L Line

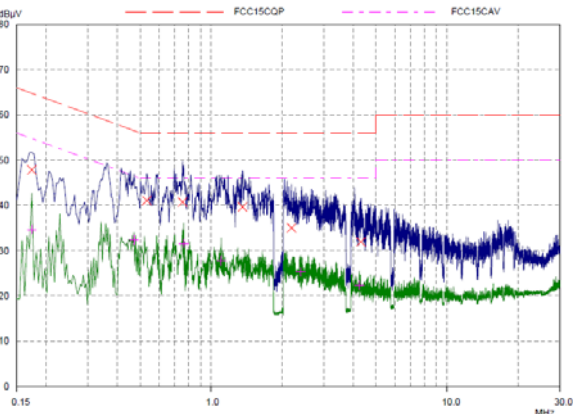


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.17343	47.62	64.79	17.17	L1	gnd
0.34921	38.59	58.98	20.39	L1	gnd
0.68515	35.74	56.00	20.26	L1	gnd
1.4039	37.47	56.00	18.53	L1	gnd
4.13046	32.17	56.00	23.83	L1	gnd
19.11093	27.23	60.00	32.77	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.17343	33.12	54.79	21.67	L1	gnd
0.44296	25.98	47.01	21.03	L1	gnd
1.03671	27.02	46.00	18.98	L1	gnd
1.18125	21.56	46.00	24.44	L1	gnd
2.23593	20.69	46.00	25.31	L1	gnd
4.11484	22.78	46.00	23.22	L1	gnd

802.11n(HT20), Channel No.: 1 N Line

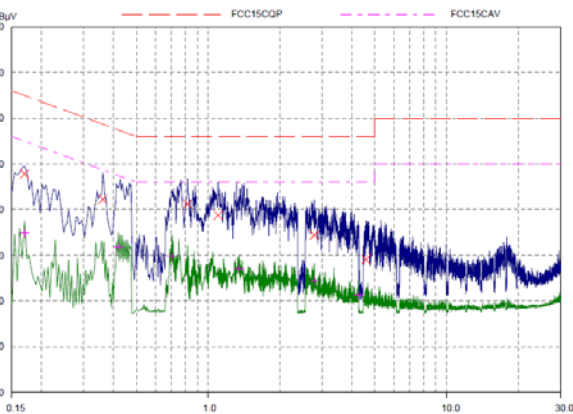


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.17343	47.84	64.79	16.95	N	gnd
0.53281	41.06	56.00	14.94	N	gnd
0.75546	40.73	56.00	15.27	N	gnd
1.35703	39.64	56.00	16.36	N	gnd
2.18906	35.05	56.00	20.95	N	gnd
4.31406	31.93	56.00	24.07	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.17343	34.65	54.79	20.14	N	gnd
0.47031	32.38	46.51	14.13	N	gnd
0.76328	31.58	46.00	14.42	N	gnd
1.10312	27.77	46.00	18.23	N	gnd
2.39609	25.28	46.00	20.72	N	gnd
4.24375	22.35	46.00	23.65	N	gnd

802.11n(HT20), Channel No.: 6 L Line



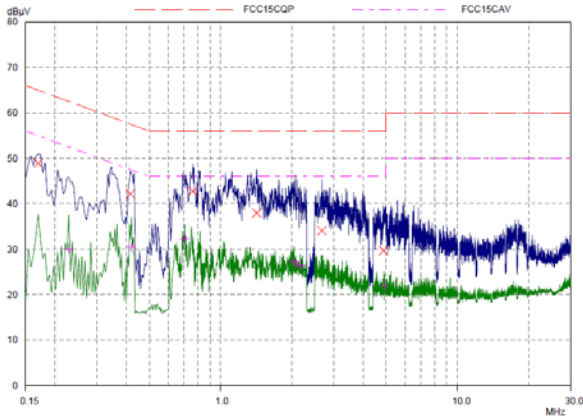
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16953	47.82	64.98	17.16	L1	gnd
0.36093	42.22	58.71	16.49	L1	gnd
0.81796	41.27	56.00	14.73	L1	gnd
1.09921	38.78	56.00	17.22	L1	gnd
2.78281	34.43	56.00	21.57	L1	gnd
4.58359	29.11	56.00	26.89	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.16953	34.90	54.98	20.08	L1	gnd
0.41953	31.96	47.46	15.50	L1	gnd
0.70468	29.76	46.00	16.24	L1	gnd
1.34921	27.09	46.00	18.91	L1	gnd
2.78281	24.50	46.00	21.50	L1	gnd
4.25546	21.30	46.00	24.70	L1	gnd



802.11n(HT20), Channel No.: 6 N Line

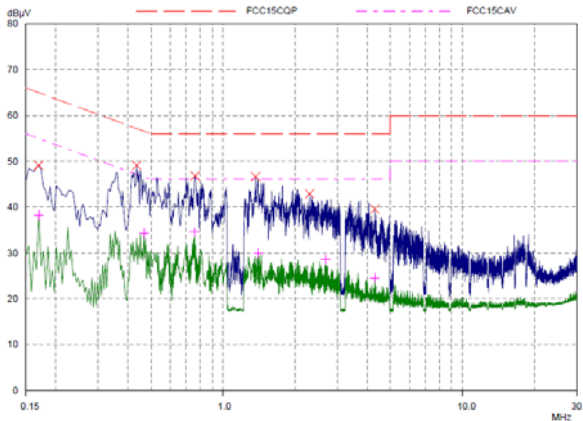


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16953	48.94	64.98	16.04	N	gnd
0.41562	42.17	57.54	15.37	N	gnd
0.76328	42.72	56.00	13.28	N	gnd
1.41953	37.92	56.00	18.08	N	gnd
2.67343	34.03	56.00	21.97	N	gnd
4.87265	29.68	56.00	26.32	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	30.04	52.52	22.48	N	gnd
0.41953	30.44	47.46	17.02	N	gnd
0.70468	32.20	46.00	13.80	N	gnd
2.04062	27.21	46.00	18.79	N	gnd
2.16953	26.37	46.00	19.63	N	gnd
4.88828	21.93	46.00	24.07	N	gnd

802.11n(HT20), Channel No.: 11 L Line

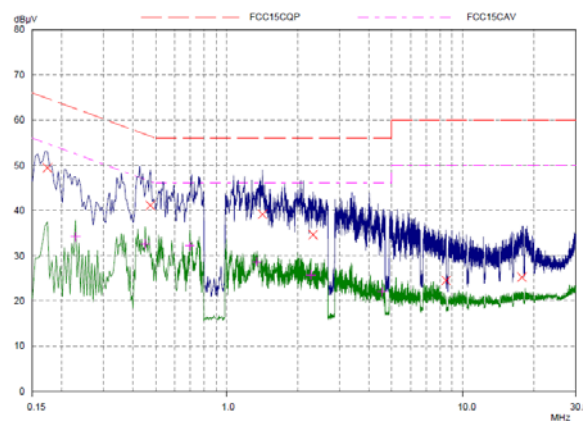


Peak Search Results

Frequency MHz	PK Level dBµV	PK Limit dBµV	PK Delta dB	Phase	PE
0.16953	49.12	64.98	15.86	L1	gnd
0.43515	49.13	57.15	8.02	L1	gnd
0.76328	46.83	56.00	9.17	L1	gnd
1.36484	46.61	56.00	9.39	L1	gnd
2.29453	42.90	56.00	13.10	L1	gnd
4.30234	39.55	56.00	16.45	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.16953	38.24	54.98	16.74	L1	gnd
0.4664	34.27	46.58	12.31	L1	gnd
0.75937	34.55	46.00	11.45	L1	gnd
1.4039	29.99	46.00	16.01	L1	gnd
2.68125	28.55	46.00	17.45	L1	gnd
4.30234	24.59	46.00	21.41	L1	gnd

802.11n(HT20), Channel No.: 11 N Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.17343	49.43	64.79	15.36	N	gnd
0.47421	41.12	56.44	15.32	N	gnd
1.41562	39.16	56.00	16.84	N	gnd
2.31796	34.64	56.00	21.36	N	gnd
8.48984	24.55	60.00	35.45	N	gnd
17.79843	25.24	60.00	34.76	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	34.22	52.52	18.30	N	gnd
0.45078	32.58	46.86	14.28	N	gnd
0.69687	32.16	46.00	13.84	N	gnd
1.3414	28.68	46.00	17.32	N	gnd
2.27109	25.77	46.00	20.23	N	gnd
4.55234	22.05	46.00	23.95	N	gnd



6. Main Test Instruments

Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time
EMI Test Receiver	ESCI	R&S	100948	2015-05-22	2016-05-21
Loop Antenna	FMZB1519	SCHWARZBECK	1519-047	2014-02-29	2017-02-28
TRILOG Broadband Antenna	VULB 9163	Schwarzbeck	9163-201	2014-12-06	2017-12-05
Double Ridged Waveguide Horn Antenna	HF907	R&S	100126	2014-12-06	2017-12-05
Standard Gain Horn	3160-09	ETS-Lindgren	00102644	2015-01-30	2018-01-29
EMI Test Receiver	ESCS30	R&S	100138	2015-12-17	2016-12-16
LISN	ENV216	R&S	101171	2013-12-18	2016-12-17
Spectrum Analyzer	E4445A	Agilent	MY46181146	2015-05-22	2016-05-21
Spectrum Analyzer	N9010A	Agilent	MY47191109	2015-05-22	2016-05-21
MOB COMMS DC SUPPLY	66319D	Agilent	MY43004105	2015-05-22	2016-05-21
Peak Power Meter	8990B	Agilent	51000109	2015-04-26	2016-04-25
Wideband Power Sensors	N1923A	Agilent	MY51220004	2015-04-26	2016-04-25
Spectrum Analyzer	FSV30	R&S	100815	2015-12-17	2016-12-16
RF Cable	SMA 15cm	Agilent	0001	2016-03-09	2016-05-08

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

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Front Side



Back Side

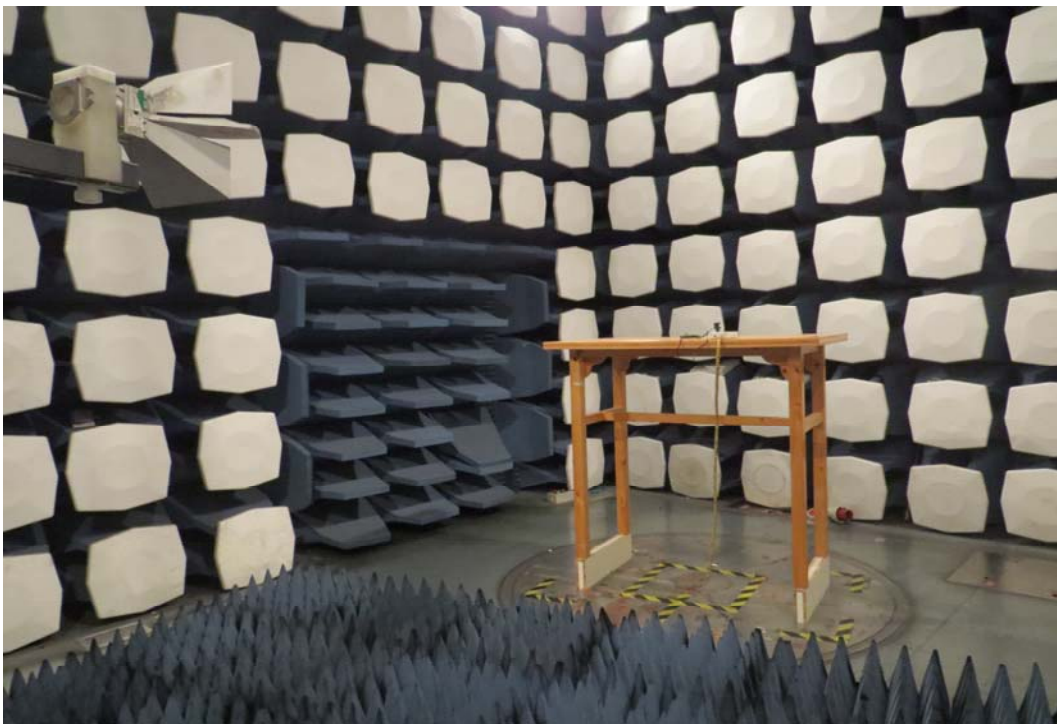
a: EUT

Picture 1 EUT

A.2 Test Setup

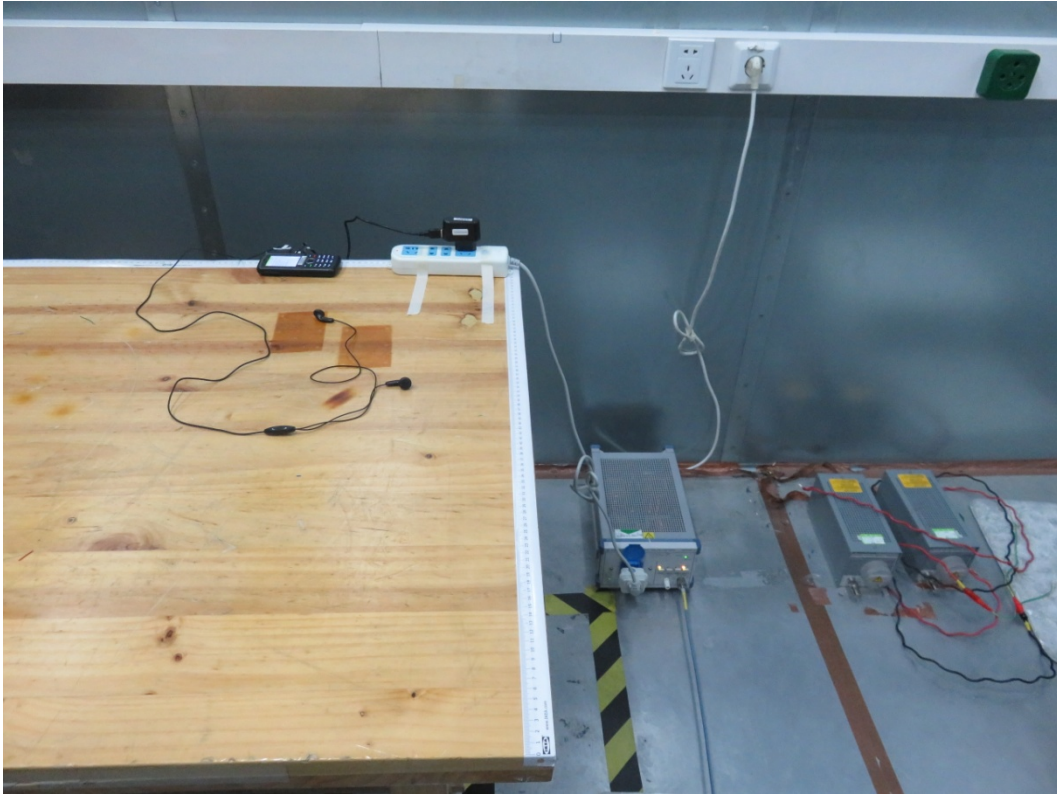


30M Hz-1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup



Picture 3 Conducted Emission Test Setup