RF TEST REPORT

Applicant	TP-LINK TECHNOLOGIES CO., LTD.
FCC ID	TE7C5LV1
Brand	TP-LINK
Product	C5L FDD-LTE Smartphone
Model	TP601C
Report No.	RXA1511-0187RF06R3
Issue Date	February 23, 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.

Lingling Kang

Reviewed by: Lingling Kang/ Manager

Kai Xu

Approved by: Kai Xu/ Director

ilac-MRA CNAS TESTING No. L2264

TA Technology (Shanghai) Co., Ltd.

No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

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Summary of measurement results

No.	Test Type	Clause in FCC rules	Verdict
1	Peak Power Output –Conducted	15.247(b)(3)	PASS
2	Minimum 6dB bandwidth	15.247(a)(2)	PASS
3	Band Edges compliance	15.247(d)	PASS
4	Spurious Radiated Emissions in the restricted band	15.247(d),15.205,15.209	PASS
5	Power spectral Density	15.247(e)	PASS
6	Conducted Spurious Emission	15.247	PASS
7	Radiates Emission	15.247(d),15.205,15.209	PASS
8	Conducted Emissions	15.207,15.107	PASS
Date of Testing: November 14, 2015~ November 23, 2015			

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
Country:	P. R. China
Contact:	Xu Kai
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	http://www.ta-shanghai.com
E-mail:	xukai@ta-shanghai.com

2 General Description of Equipment under Test

Client Information

Applicant	TP-LINK TECHNOLOGIES CO., LTD.
Applicant address	Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan, Shenzhen,China
Manufacturer	TP-LINK TECHNOLOGIES CO., LTD.
Manufacturer address	Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan, Shenzhen,China

Accessory Equipment Details

Name	Model	Manufacturer	Capacity	S/N
Battery	NBL-45A2000	TP-LINK TECHNOLOGIES CO., LTD.	2000mAh	B1151006100980

General information

Model:	TP601C
IMEI:	SIM 1: 868788020000031 SIM 2: 868788020001047
Hardware Version:	P1
Software Version:	H10S100D03B20151015R1003
Power Supply:	Battery/AC adapter
Antenna Type:	Internal Antenna
Network Standards:	802.11b 802.11g, 802.11n(HT20/HT40);
Modulation:	802.11b DSSS; 802.11g/n(HT20/HT40) OFDM
Max Conducted Power:	17.36 dBm
Test channel:	802.11b/g/n HT20 : 1-6-11 802.11n HT40: 3-6-9
Tested Frequency Range(s):	2400MHz~ 2483.5 MHz
Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.	

3 Applied Standards

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

FCC CFR47 Part 15C (2014) Radio Frequency Devices

ANSI C63.4 (2014)

KDB 558074 D01 DTS Meas Guidance v03r03

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 declared in basic standard IEEE802.11.Preliminary tests has been done on all the configuration for confirmming worst case. Data rate below means worst-case rate of each test item.

Results of test modes, data rates and test channels are shown as following table.

	Test items	Modes	Data Rate	Test channel
Conducted Test cases	Avg Power Output –Conducted	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11nHT20	MCS0	1/6/11
		802.11nHT40	MCS0	3/6/9
	Minimum 6dB bandwidth	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11nHT20	MCS0	1/6/11
		802.11nHT40	MCS0	3/6/9
	Band Edges compliance	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11nHT20	MCS0	1/11
		802.11nHT40	MCS0	3/9
	Power spectral Density	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11nHT20	MCS0	1/6/11
		802.11nHT40	MCS0	3/6/9
	Spurious RF Conducted Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11nHT20	MCS0	1/6/11
		802.11nHT40	MCS0	3/6/9
	Conducted Emissions	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11nHT20	MCS0	1/6/11
		802.11nHT40	MCS0	3/6/9
Radiated Test cases	Spurious Radiated Emissions in the restricted band	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11nHT20	MCS0	1/11
		802.11nHT40	MCS0	3/9
	Radiates Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11nHT20	MCS0	1/6/11
		802.11nHT40	MCS0	3/6/9

5 Test Case Results

5.1. Peak Power Output –Conducted

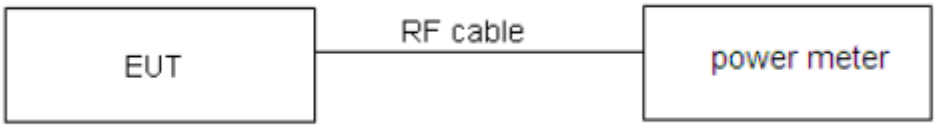
Ambient condition

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 power meter through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum Peak Conducted Output Power Level Method in 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, and 5725–5850 MHz bands: 1 Watt."

Max Output Power	≤ 1W (30dBm)

Measurement Uncertainty

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

Test Results：

Network Standards	Carrier frequency (MHz)	Peak Output Power (dBm)	Conclusion
802.11b	2412	17.36	PASS
	2437	15.73	PASS
	2462	16.85	PASS
802.11g	2412	15.27	PASS
	2437	13.99	PASS
	2462	15.39	PASS
802.11n HT20	2412	12.15	PASS
	2437	11.15	PASS
	2462	12.92	PASS
802.11n HT40	2422	8.56	PASS
	2437	8.23	PASS
	2452	8.39	PASS

5.2. Occupied Bandwidth (6dB)

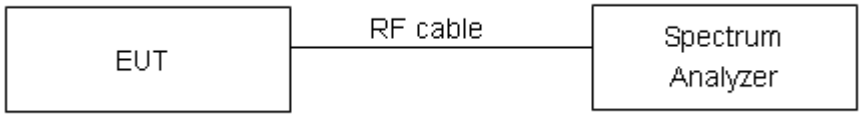
Ambient condition

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. The minimum 6 dB bandwidth shall be at least 500 kHz.”

minimum 6 dB bandwidth	≥ 500 kHz

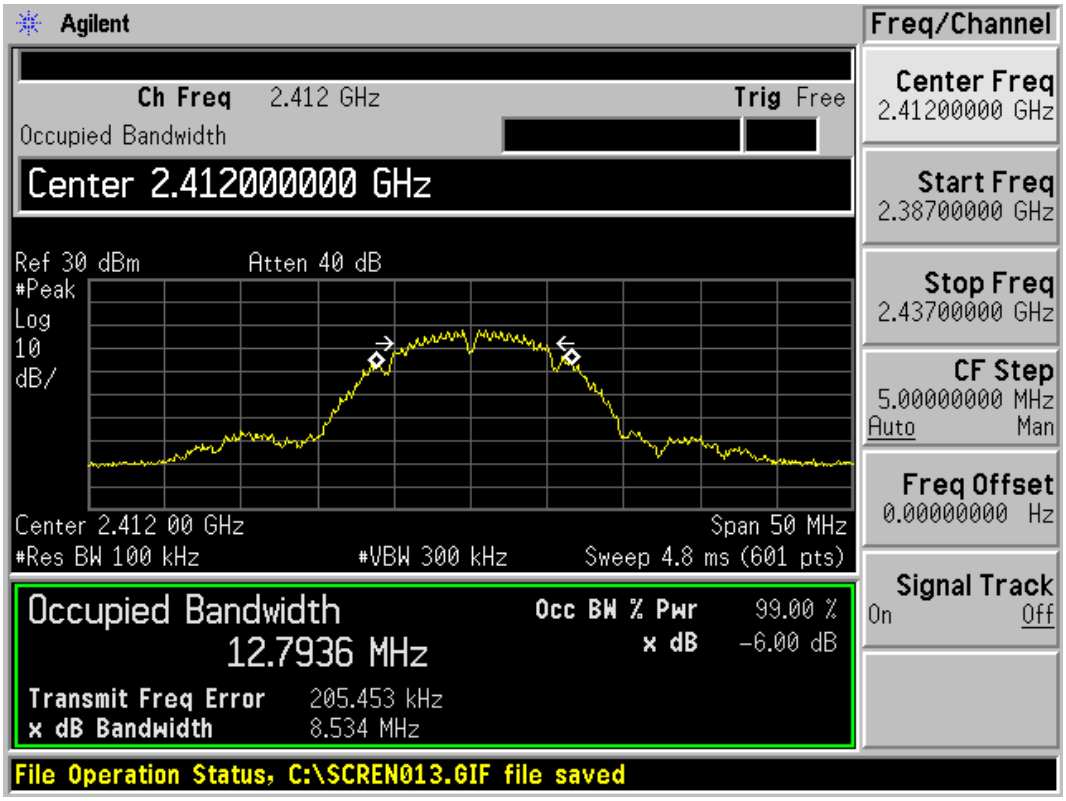
Measurement Uncertainty

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

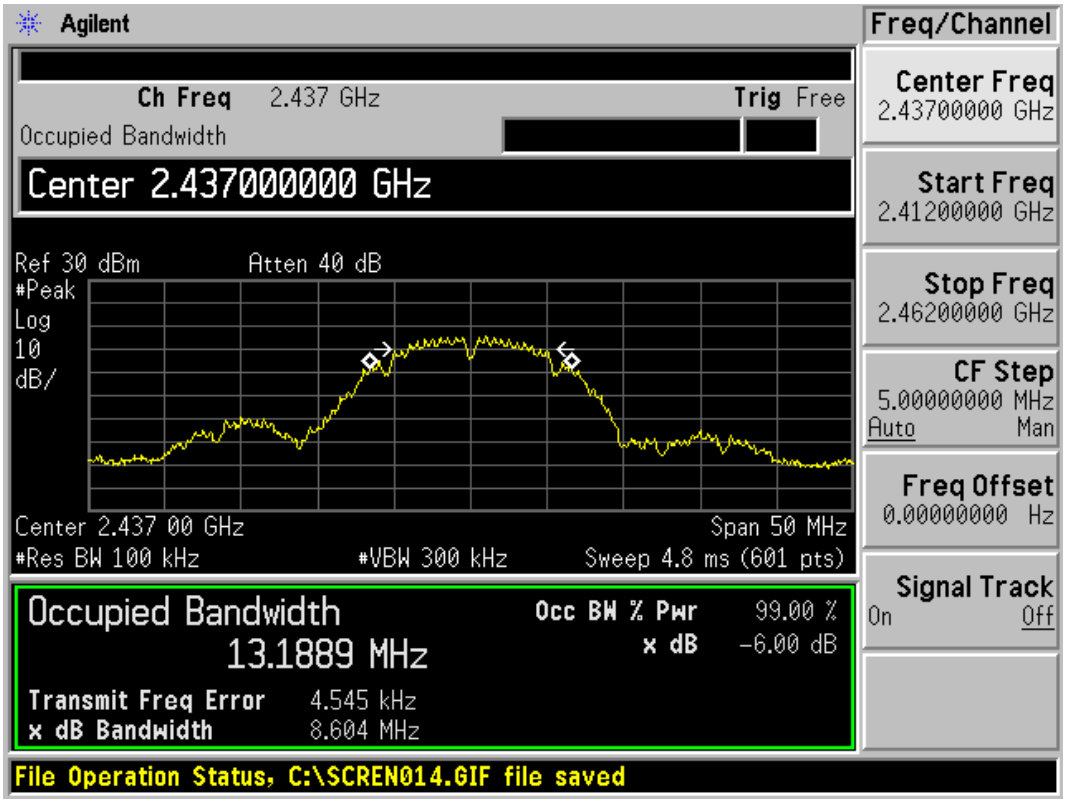
Test Results:

Network Standards	Carrier frequency (MHz)	Minimum 6 dB bandwidth (MHz)	Conclusion
802.11b	2412	8.534	PASS
	2437	8.604	PASS
	2462	8.644	PASS
802.11g	2412	15.743	PASS
	2437	16.577	PASS
	2462	14.534	PASS
802.11n HT20	2412	17.315	PASS
	2437	17.724	PASS
	2462	16.399	PASS
802.11n HT40	2422	32.819	PASS
	2437	36.147	PASS
	2452	32.555	PASS

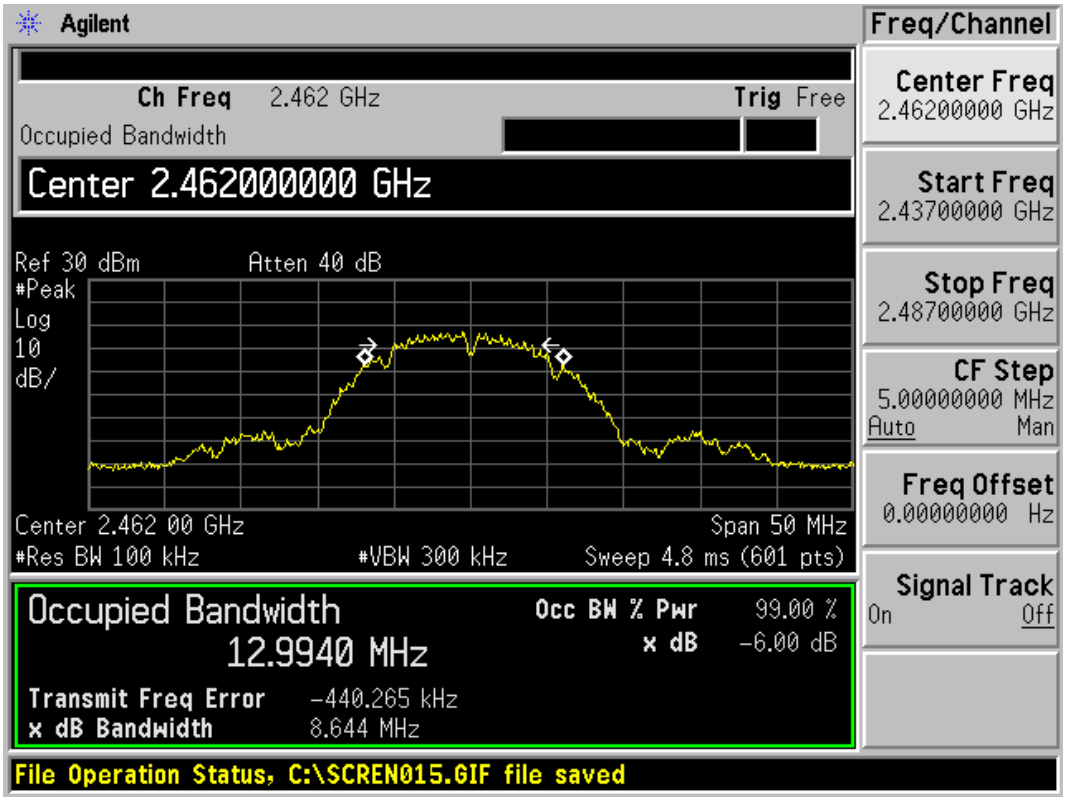
802.11b



802.11b, Carrier frequency (MHz): 2412

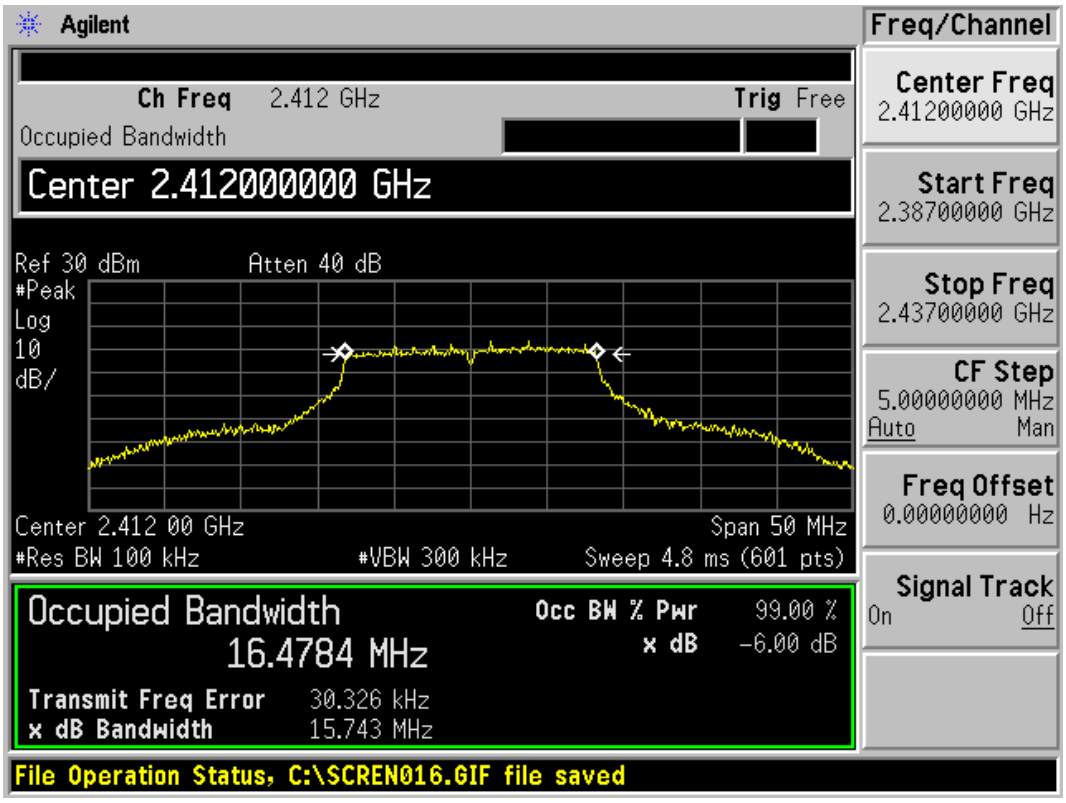


802.11b, Carrier frequency (MHz): 2437

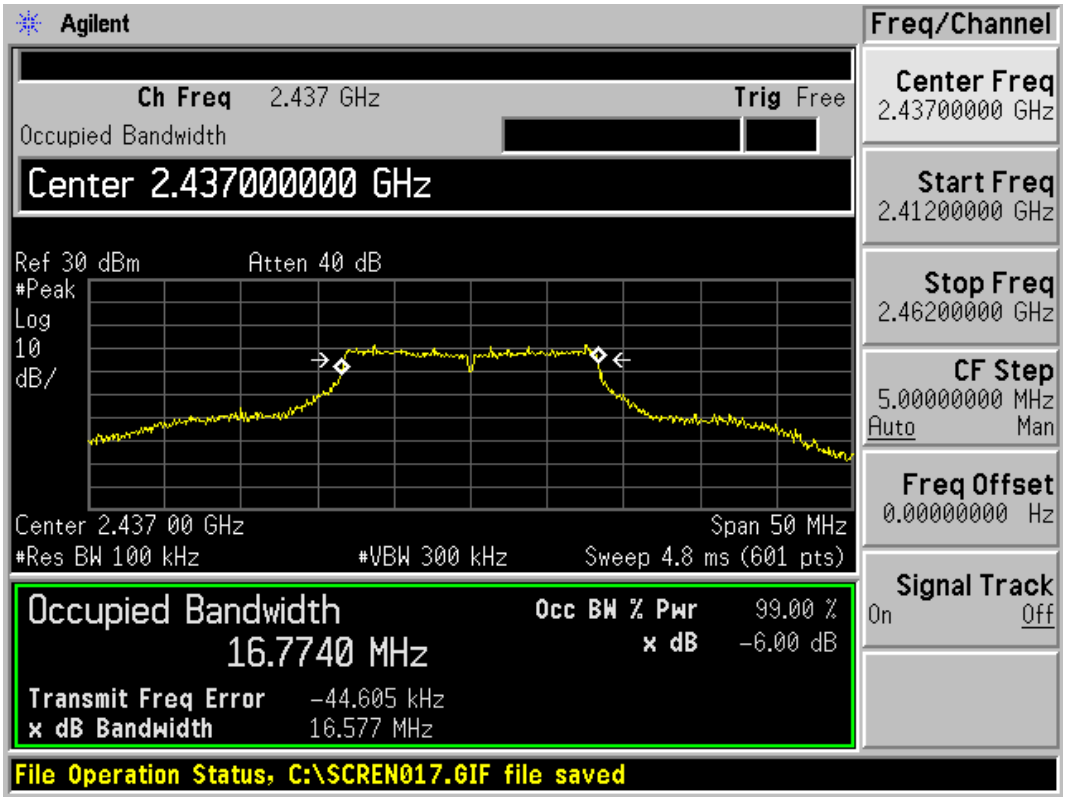


802.11b, Carrier frequency (MHz):2462

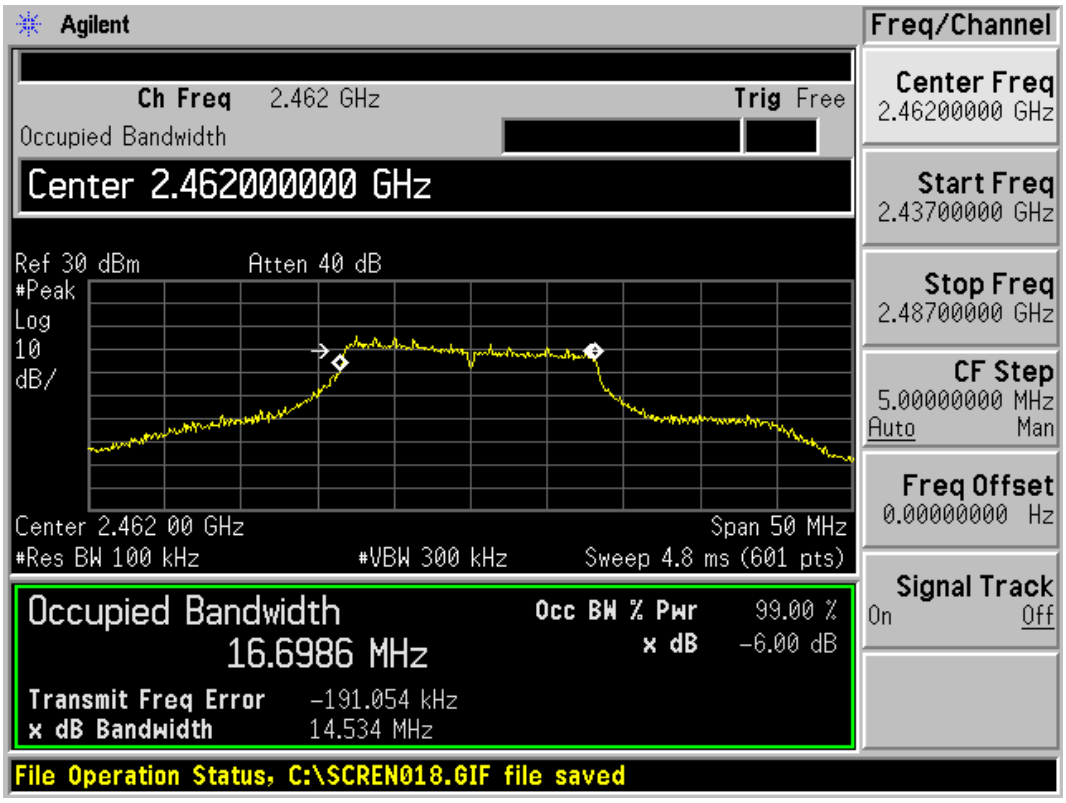
802.11g



802.11g, Carrier frequency (MHz): 2412

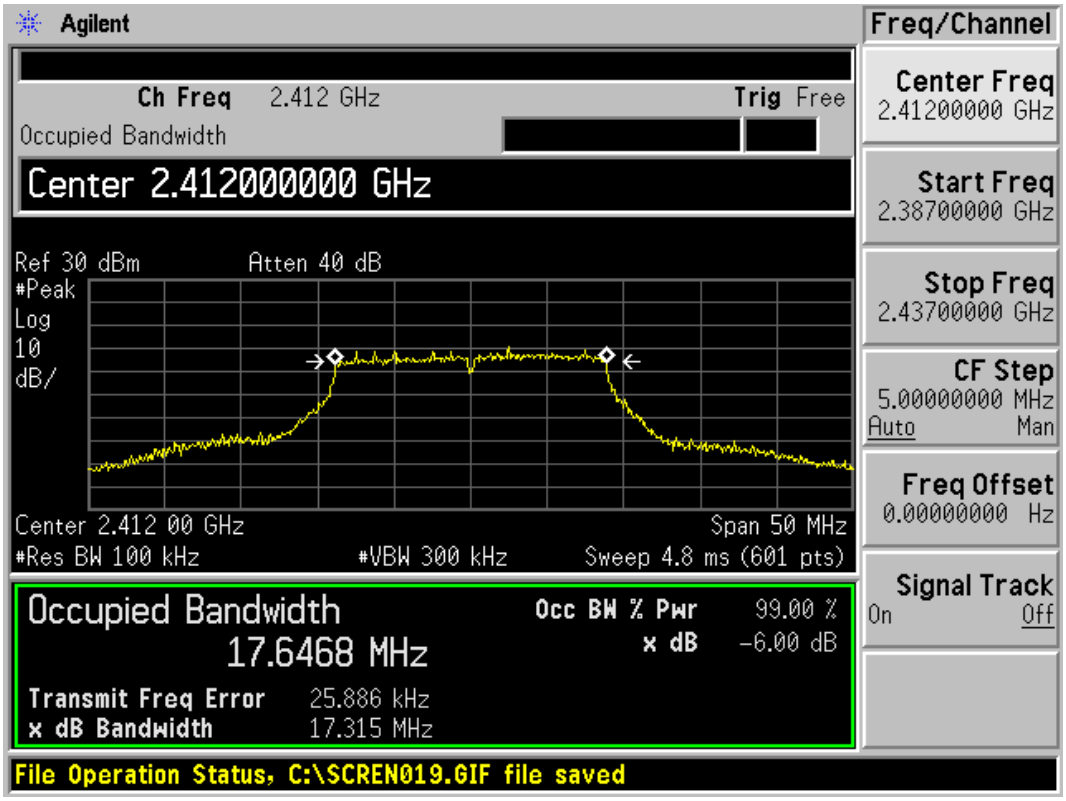


802.11g, Carrier frequency (MHz): 2437

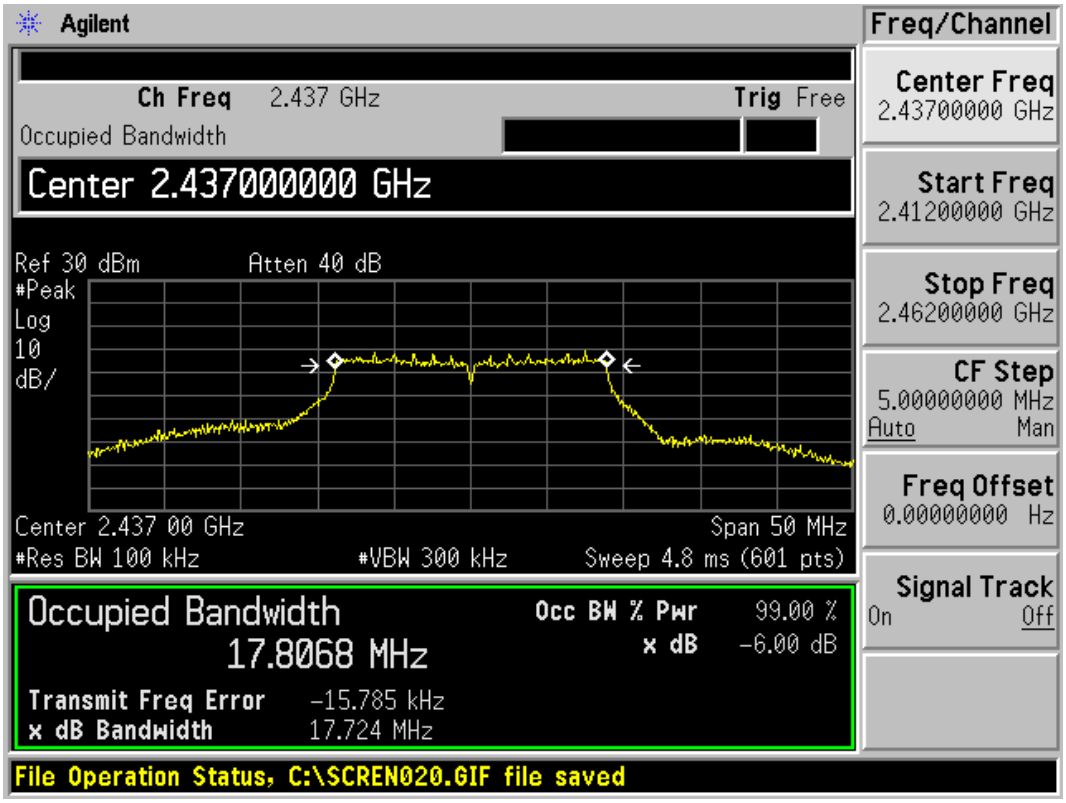


802.11g, Carrier frequency (MHz):2462

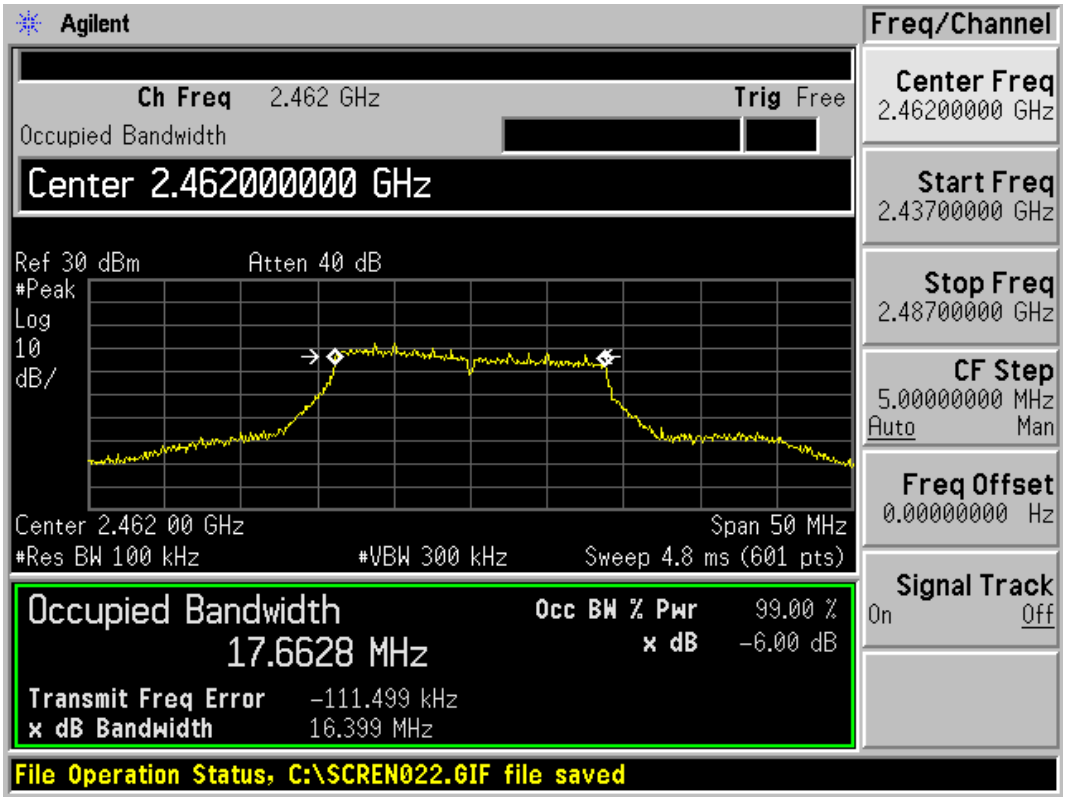
802.11n (HT20)



802.11n, Carrier frequency (MHz): 2412

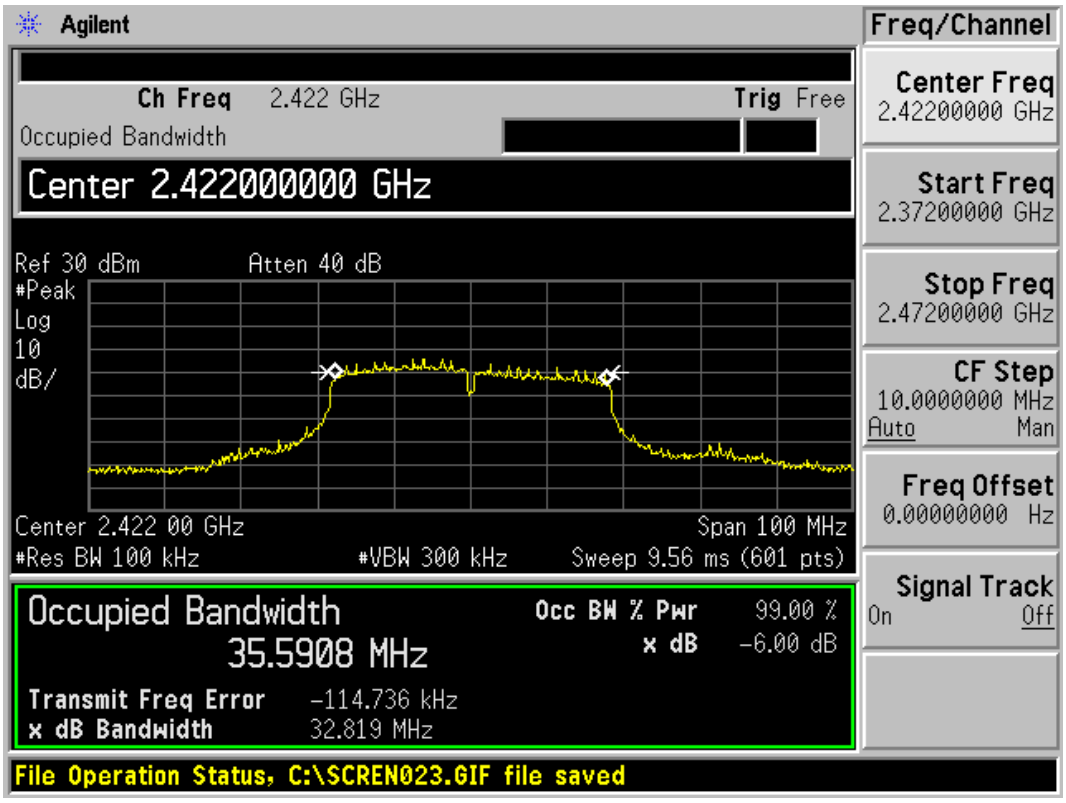


802.11n, Carrier frequency (MHz): 2437

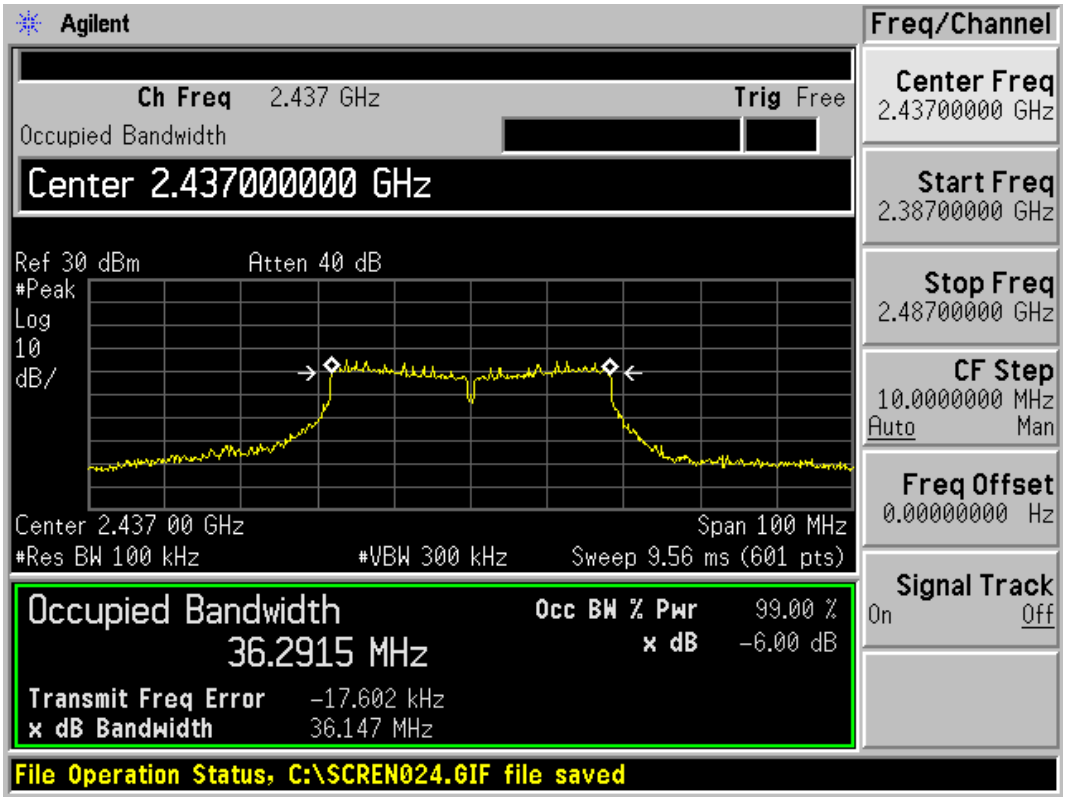


802.11n, Carrier frequency (MHz):2462

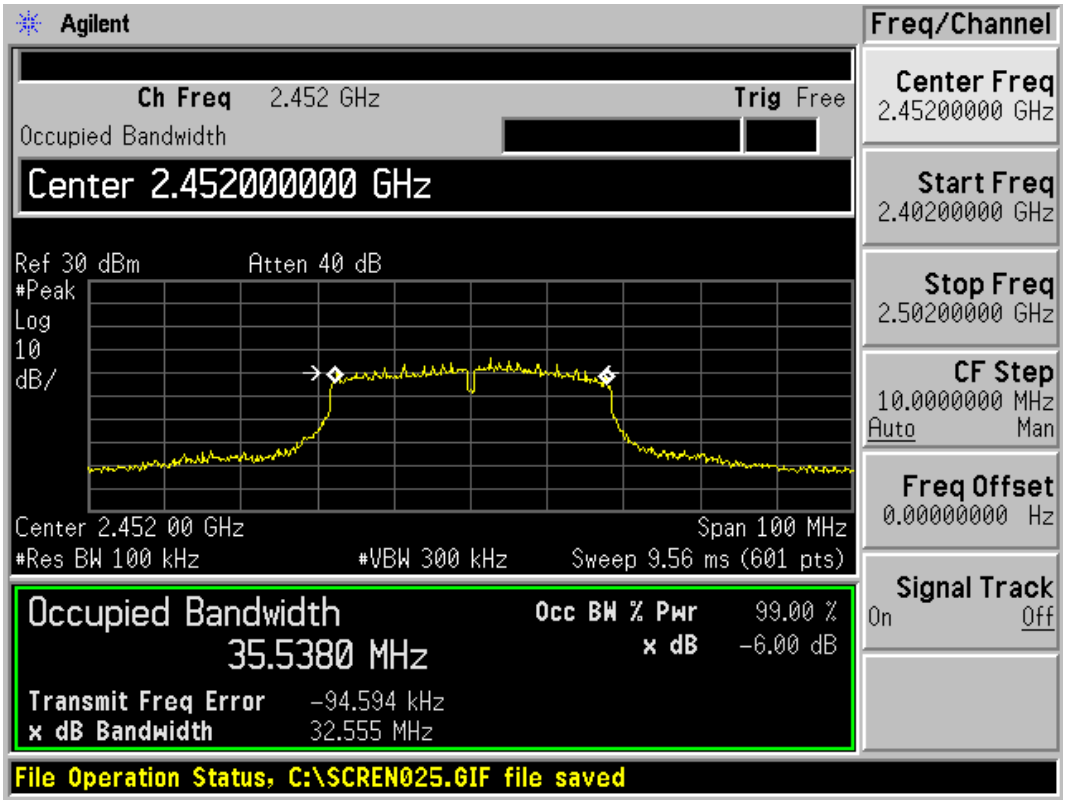
802.11n (HT40)



802.11n, Carrier frequency (MHz): 2422



802.11n, Carrier frequency (MHz): 2437



802.11n, Carrier frequency (MHz):2452

5.3. Band Edge Compliance

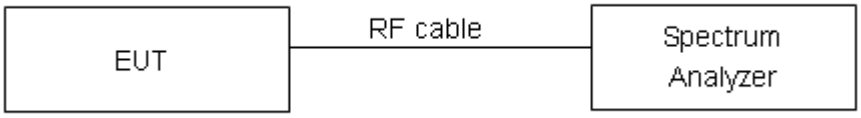
Ambient condition

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.”

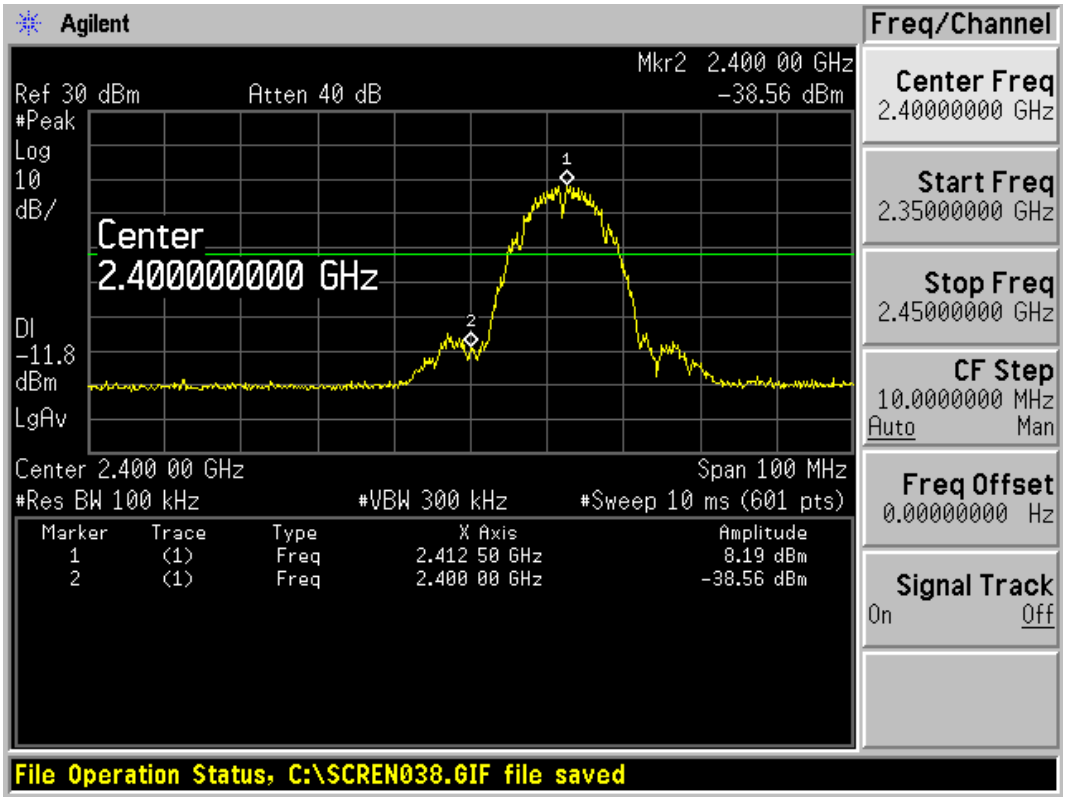
Measurement Uncertainty

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

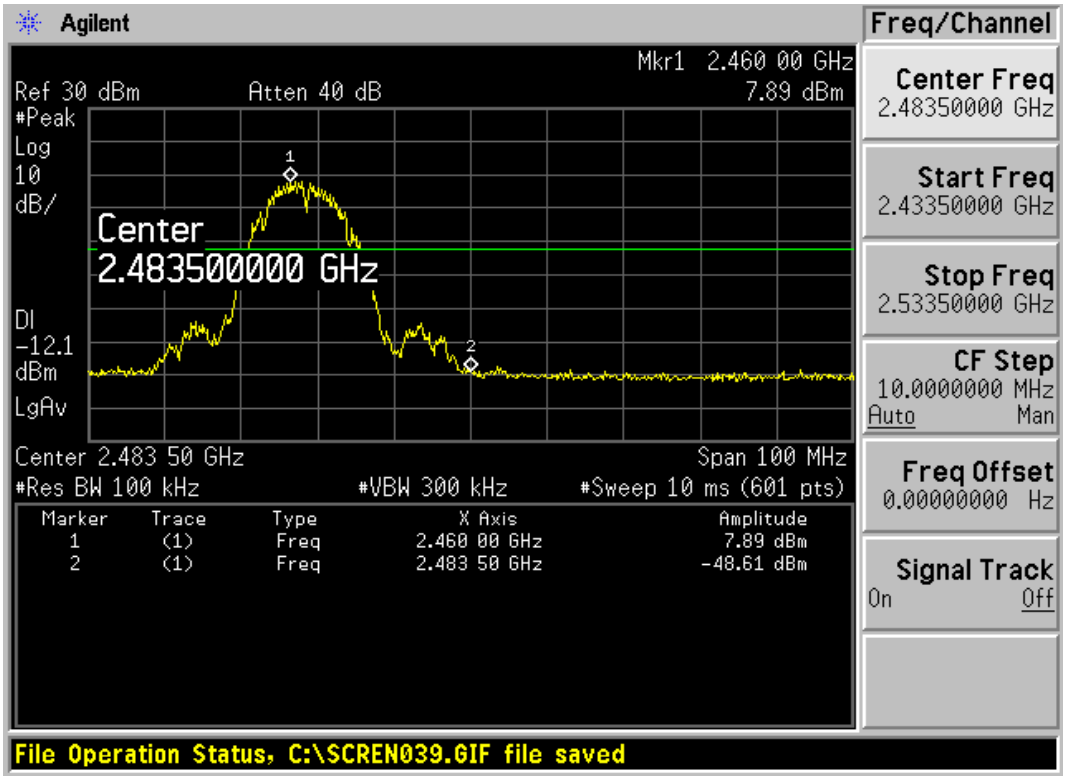
Frequency	Uncertainty
2GHz-3GHz	1.407 dB

Test Results:

802.11b

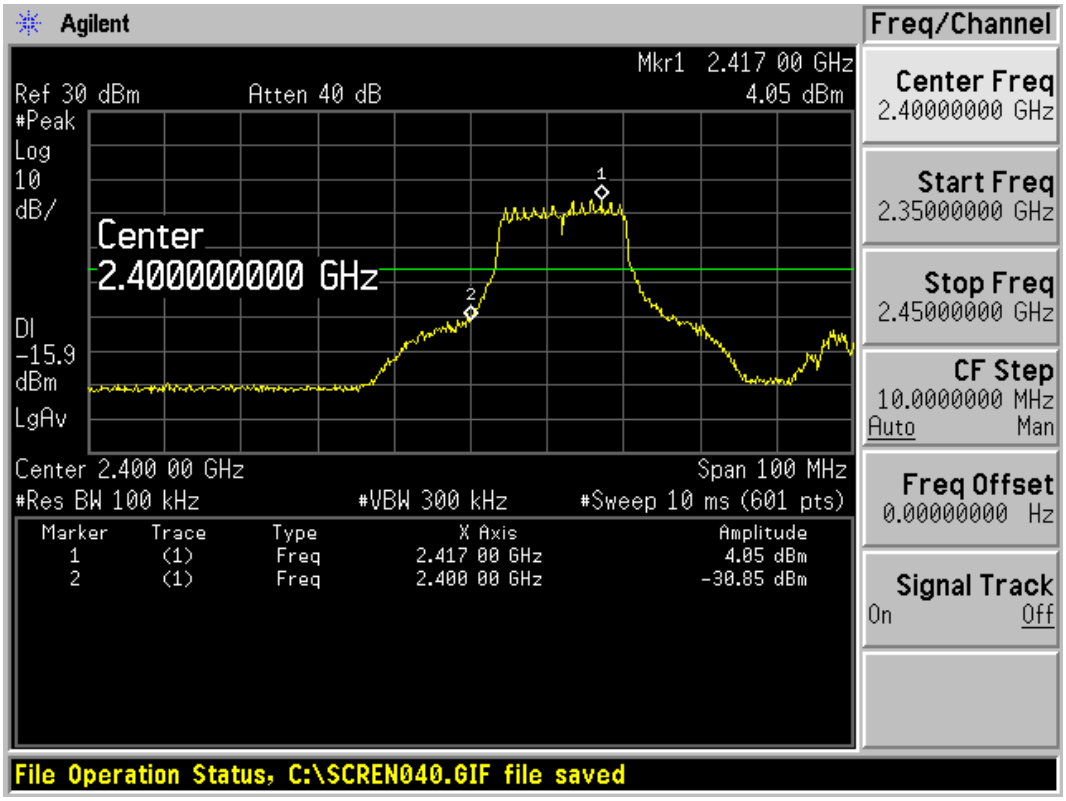


802.11b, Channel No.: 1

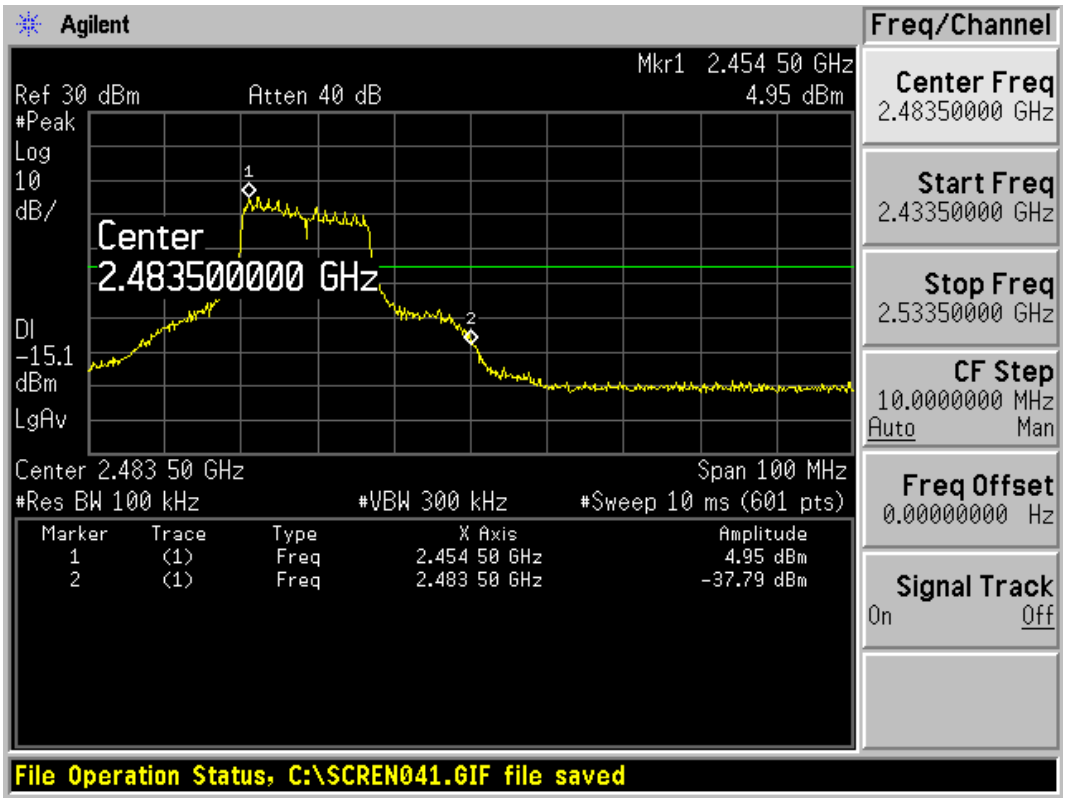


802.11b, Channel No.: 11

802.11g

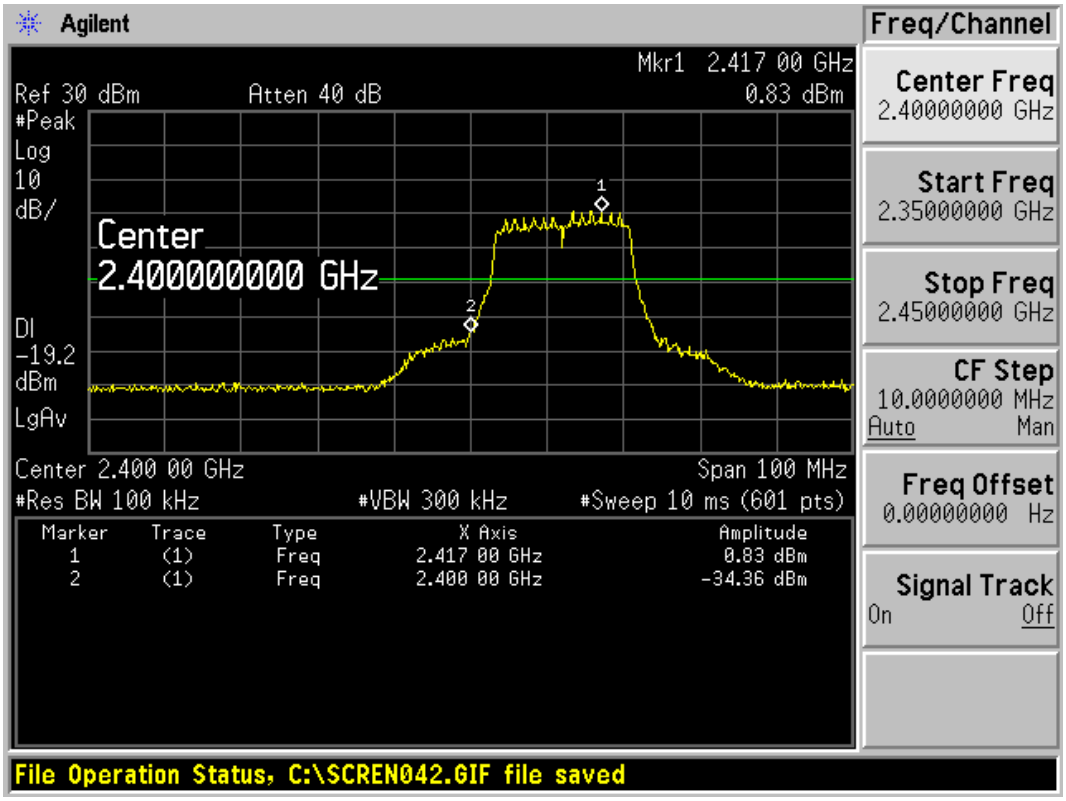


802.11g, Channel No.: 1

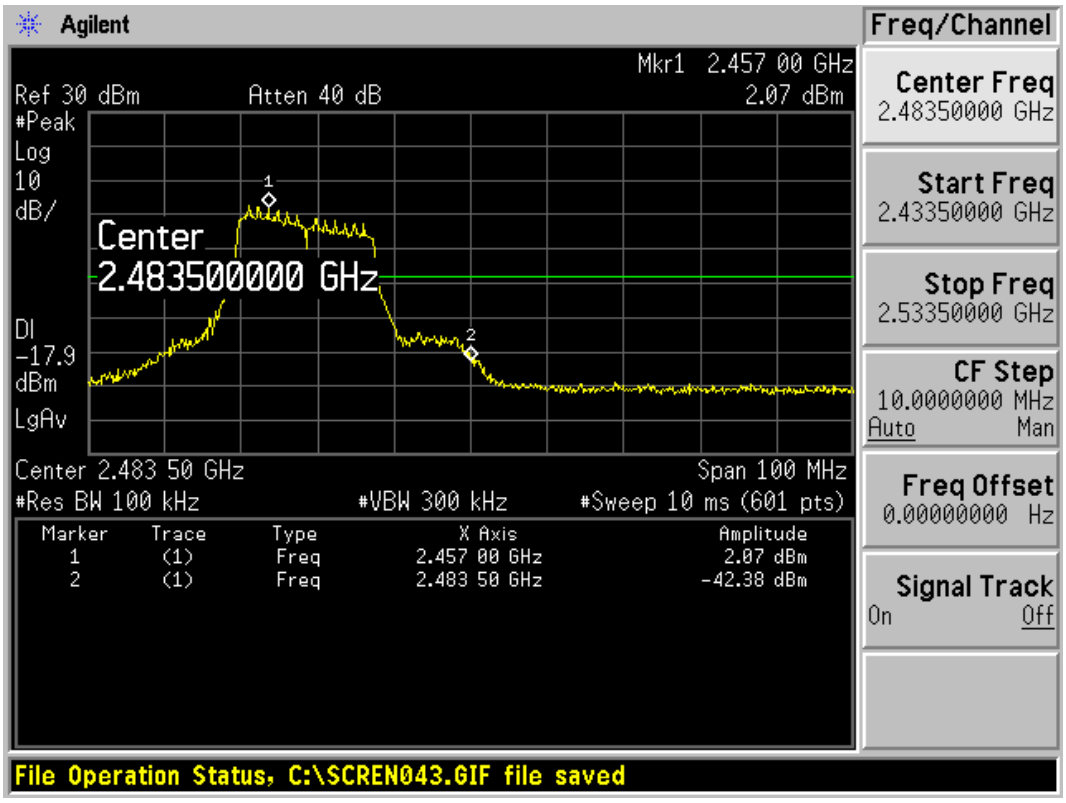


802.11g, Channel No.: 11

802.11n (HT20)

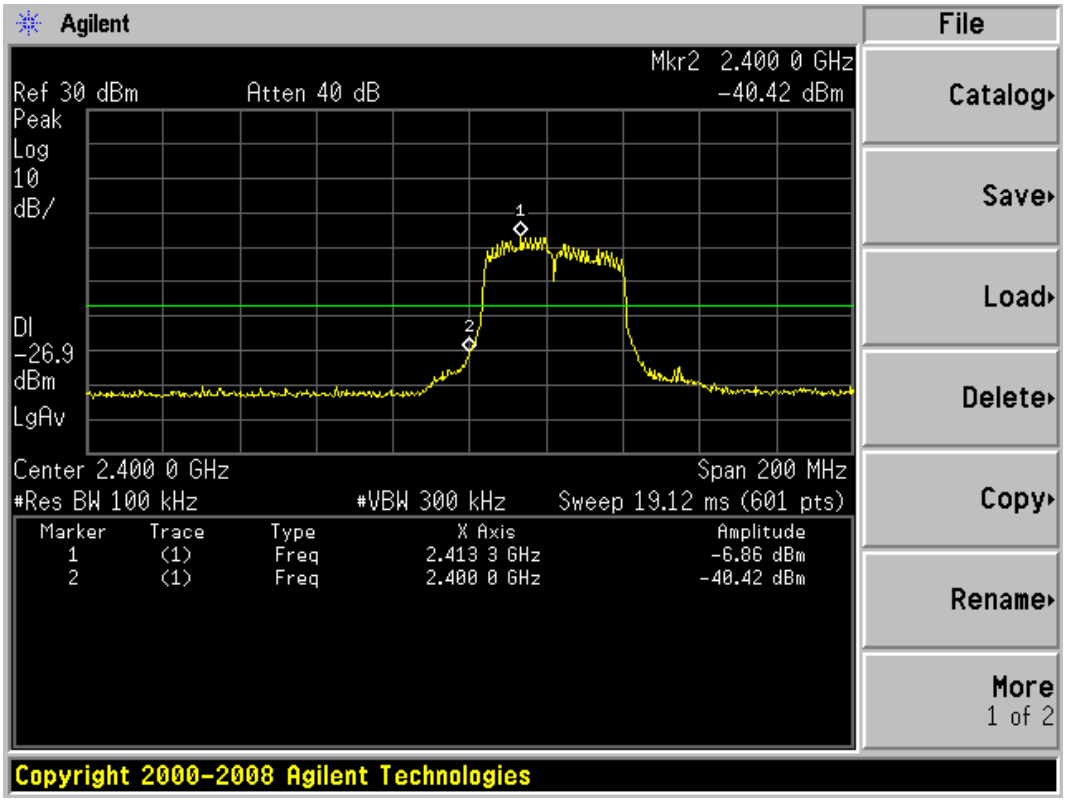


802.11n, Channel No.: 1

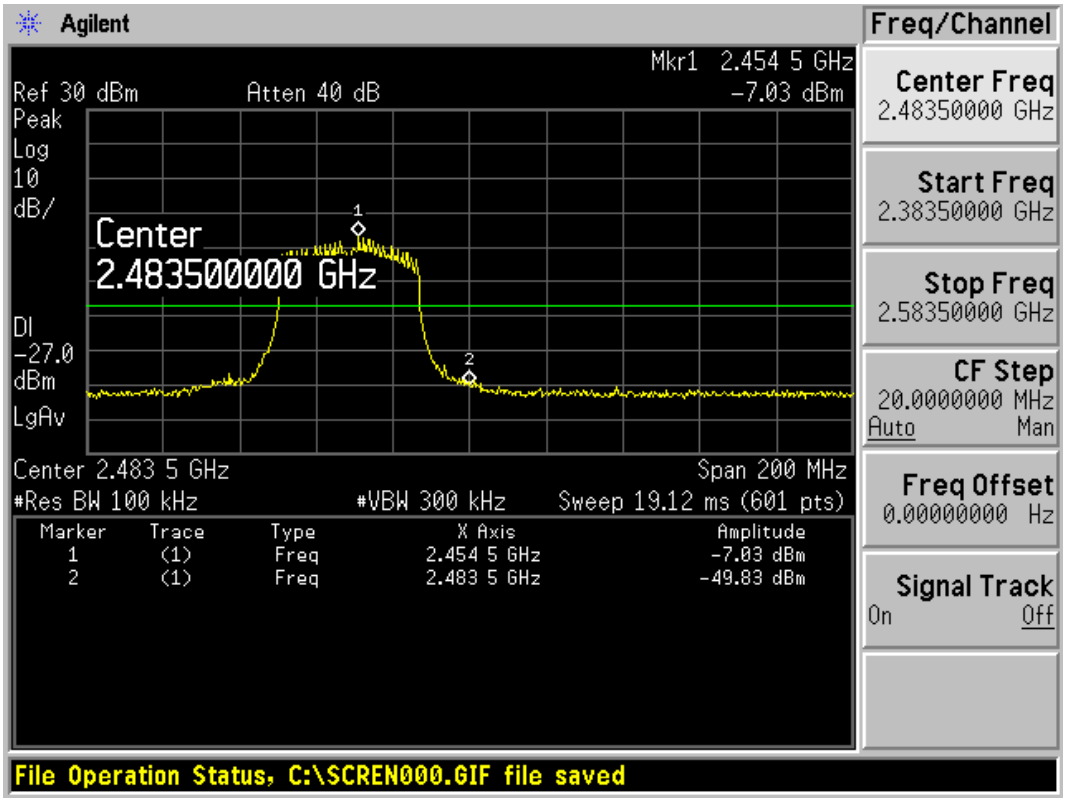


802.11n, Channel No.: 11

802.11n (HT40)



802.11n, Channel No.: 3



802.11n, Channel No.: 9

5.4. Spurious Radiated Emissions in the restricted band

Ambient condition

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

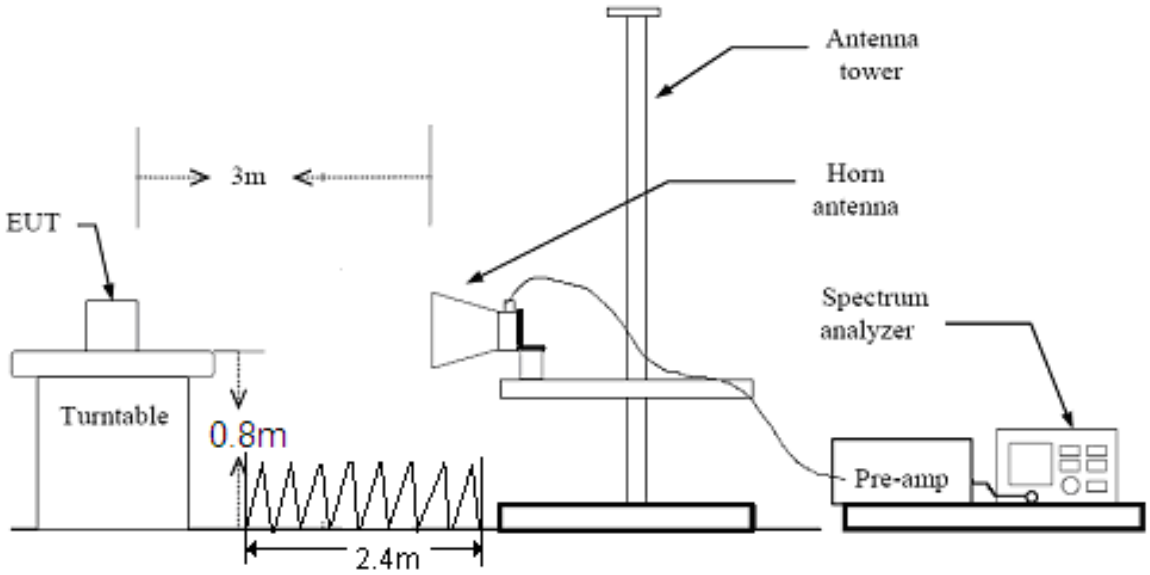
The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. 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=3MHz / 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)
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.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

Measurement Uncertainty

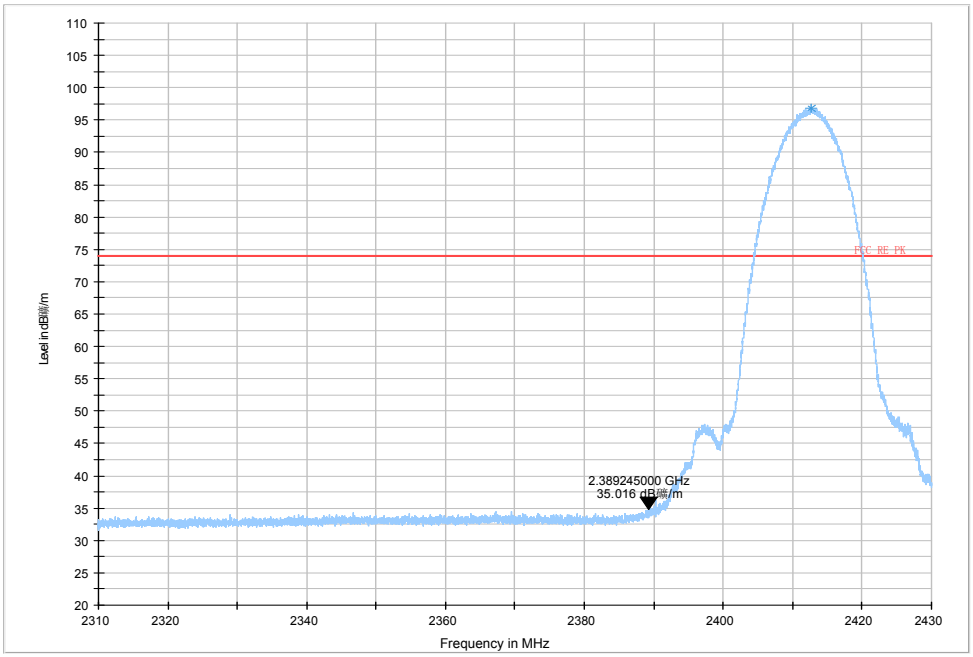
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U= 3.55 dB

Test result:

The messy code (dB碌V/m) including in the following plots mean dBuv/m.

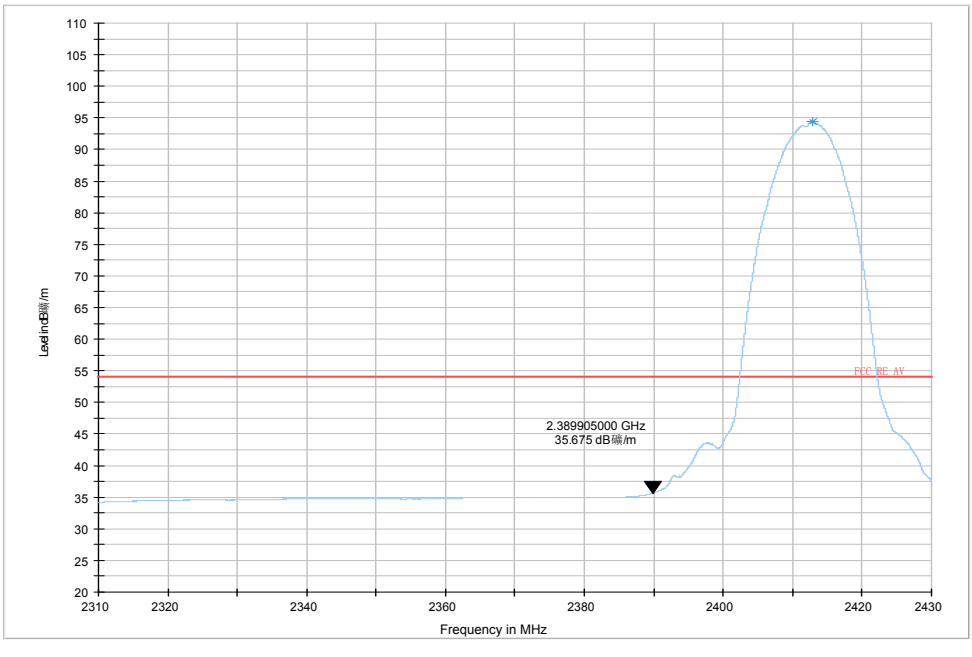
802.11b-Channel 1:

Peak



Note: The signal beyond the limit is carrier

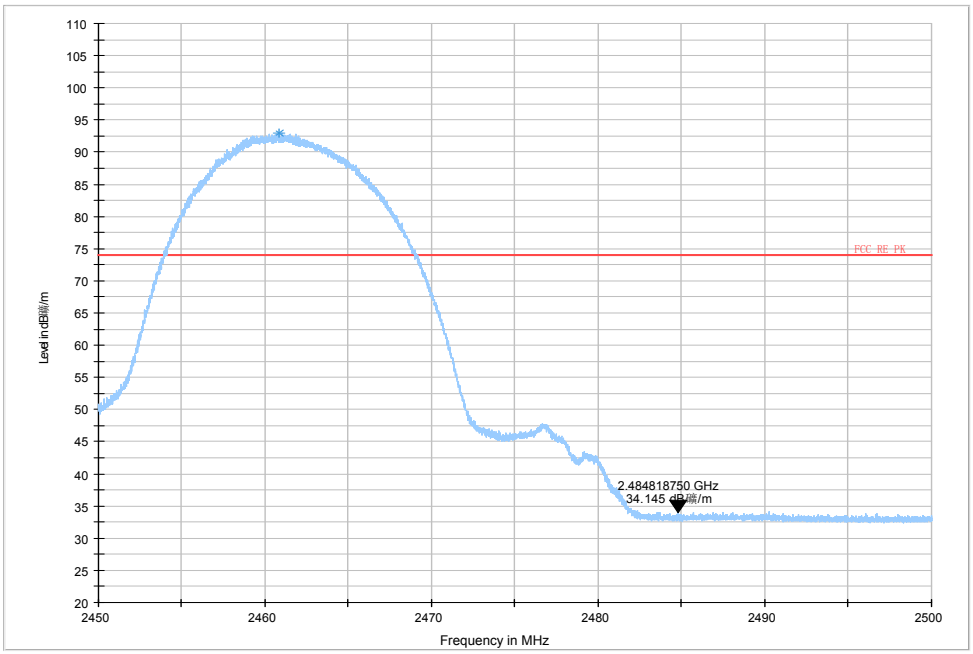
Average



Note: The signal beyond the limit is carrier

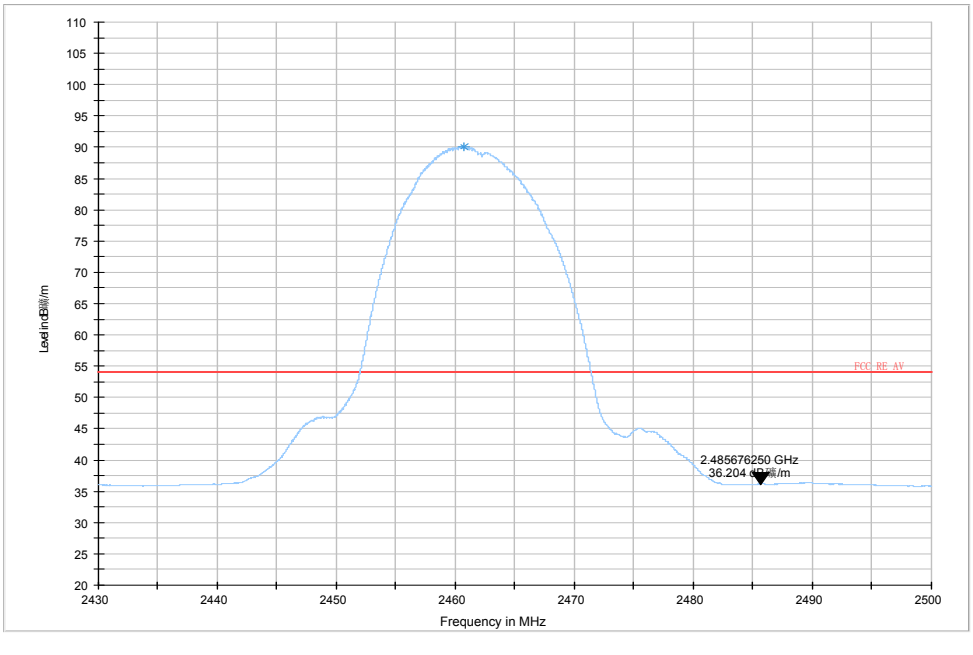
802.11b-Channel 11:

Peak



Note: The signal beyond the limit is carrier

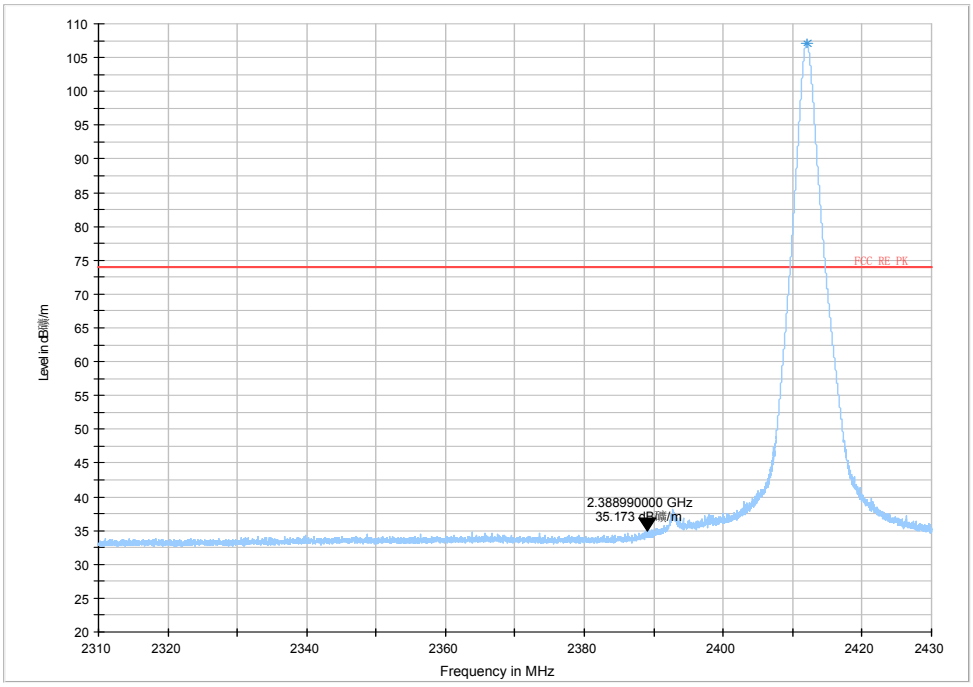
Average



Note: The signal beyond the limit is carrier

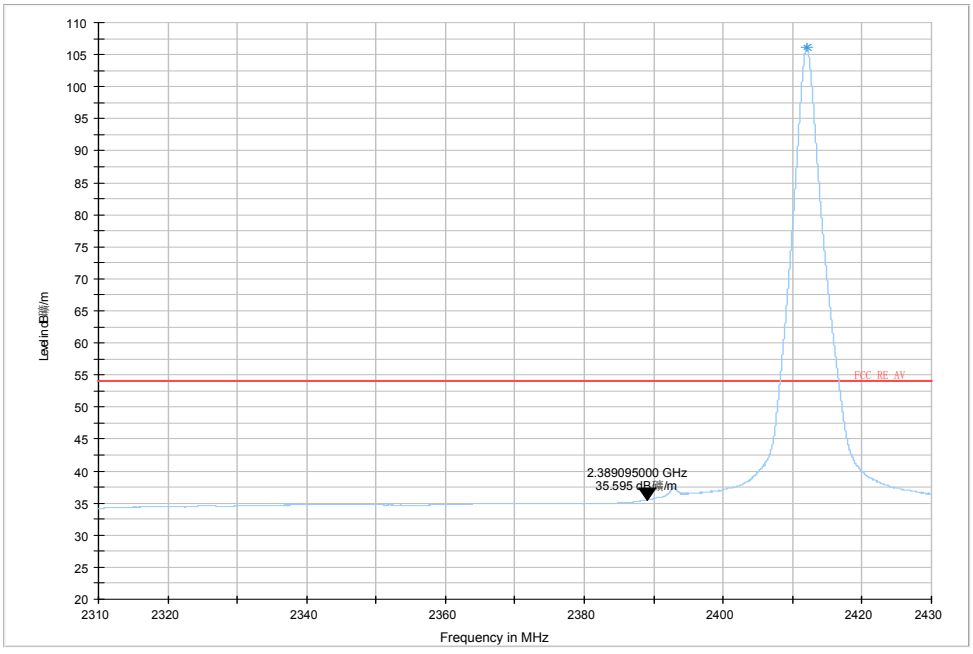
802.11g-Channel 1:

Peak



Note: The signal beyond the limit is carrier

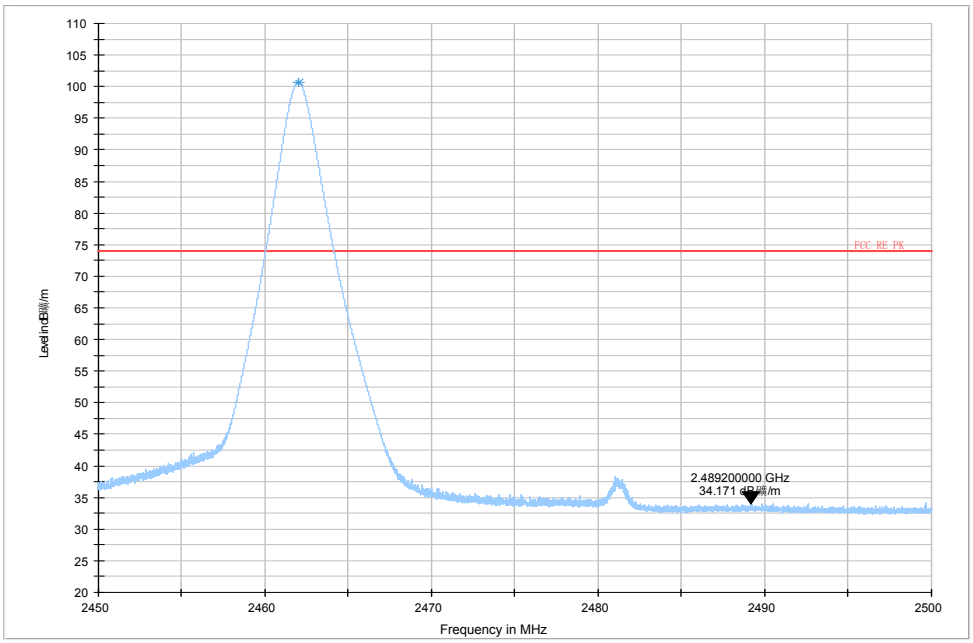
Average



Note: The signal beyond the limit is carrier

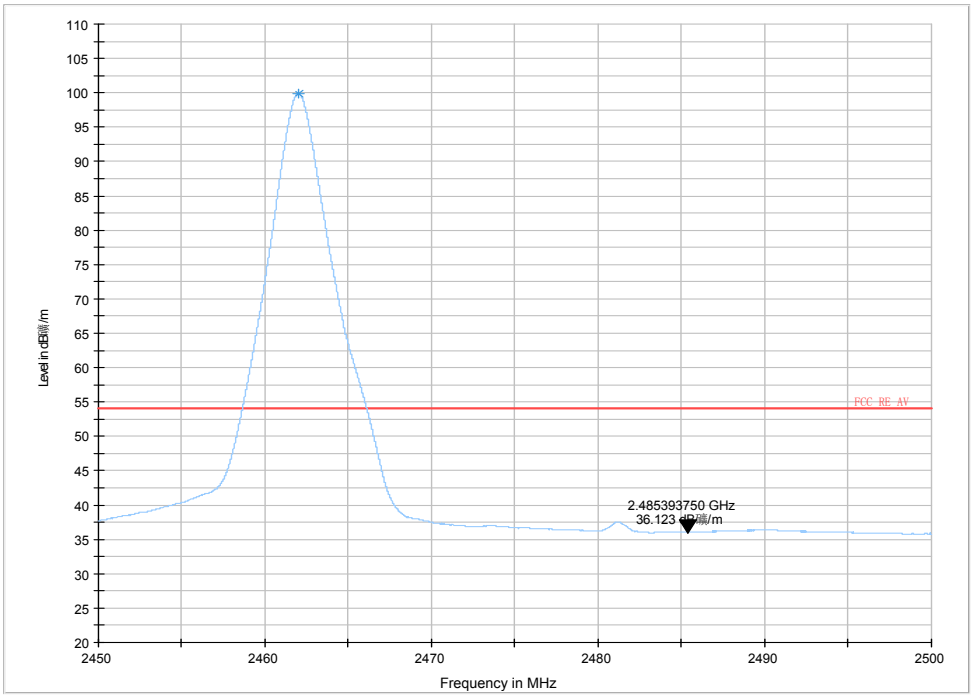
802.11g-Channel 11:

Peak



Note: The signal beyond the limit is carrier

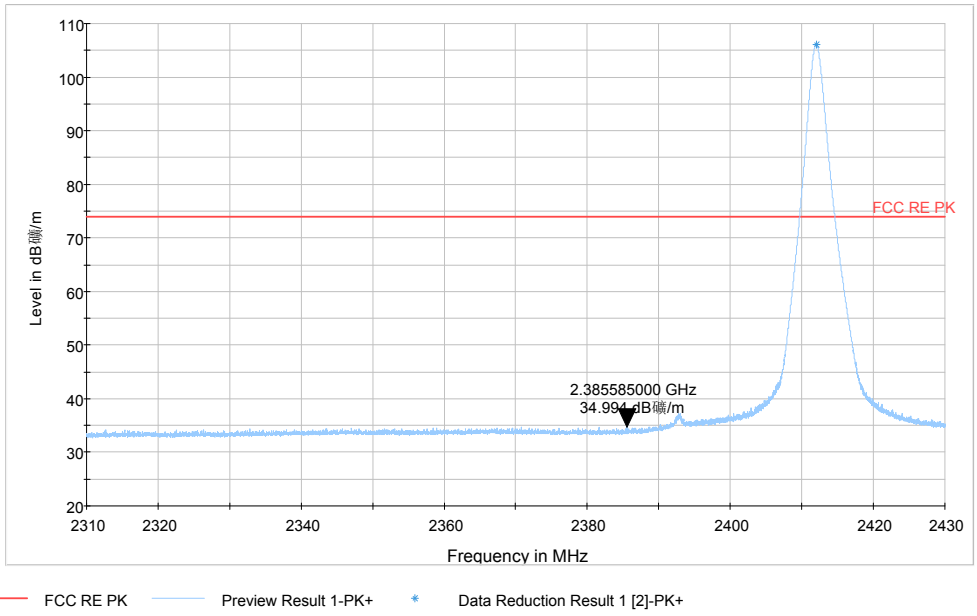
Average



Note: The signal beyond the limit is carrier

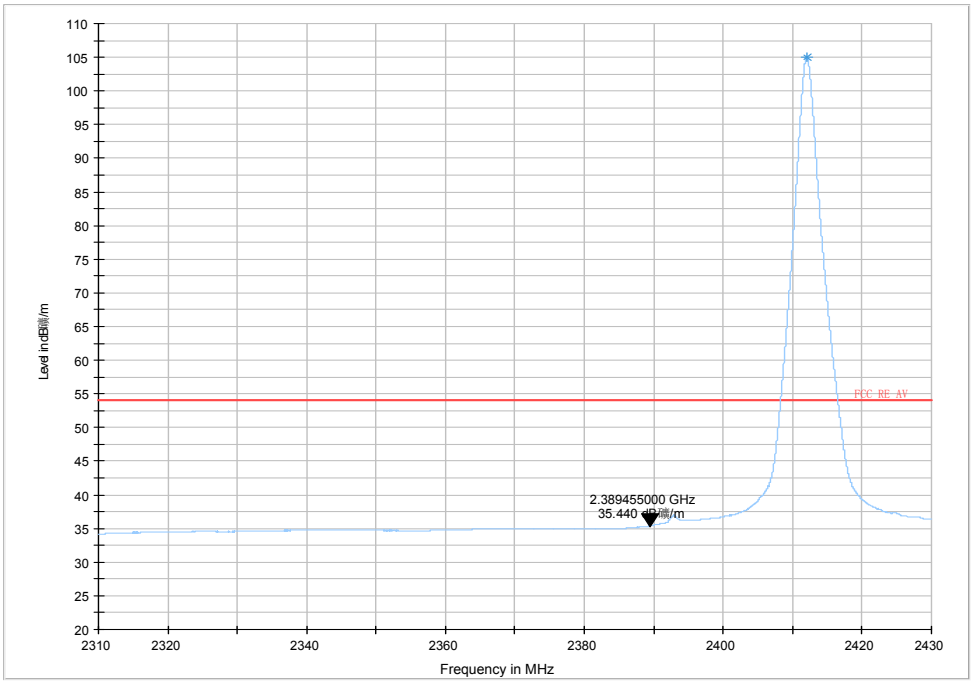
802.11n-Channel 1(HT20):

Peak



Note: The signal beyond the limit is carrier

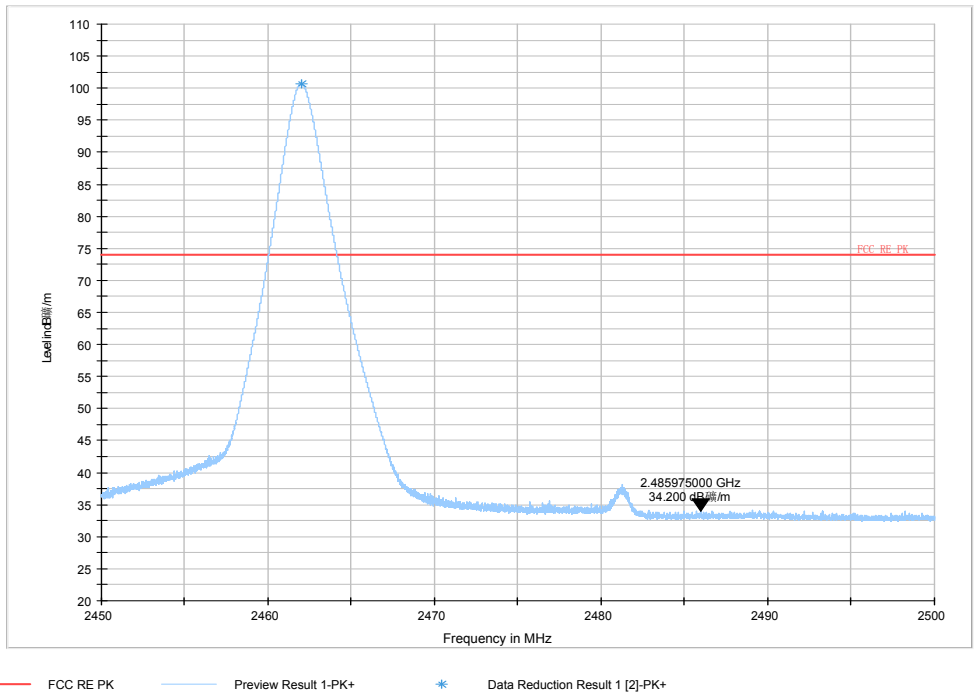
Average



Note: The signal beyond the limit is carrier

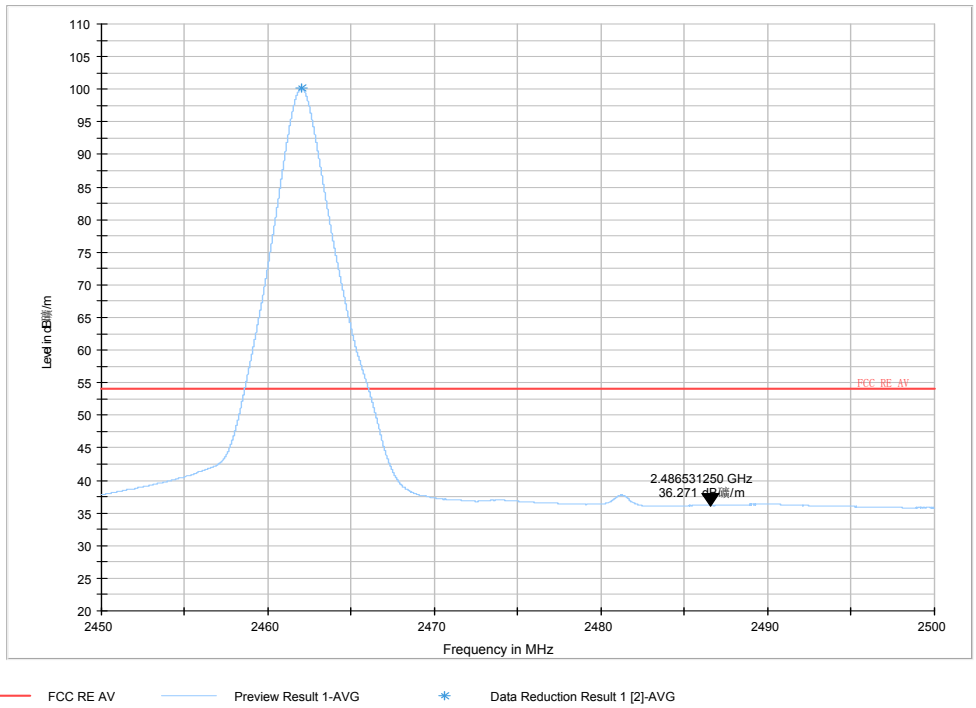
802.11n-Channel 11(HT20):

Peak



Note: The signal beyond the limit is carrier

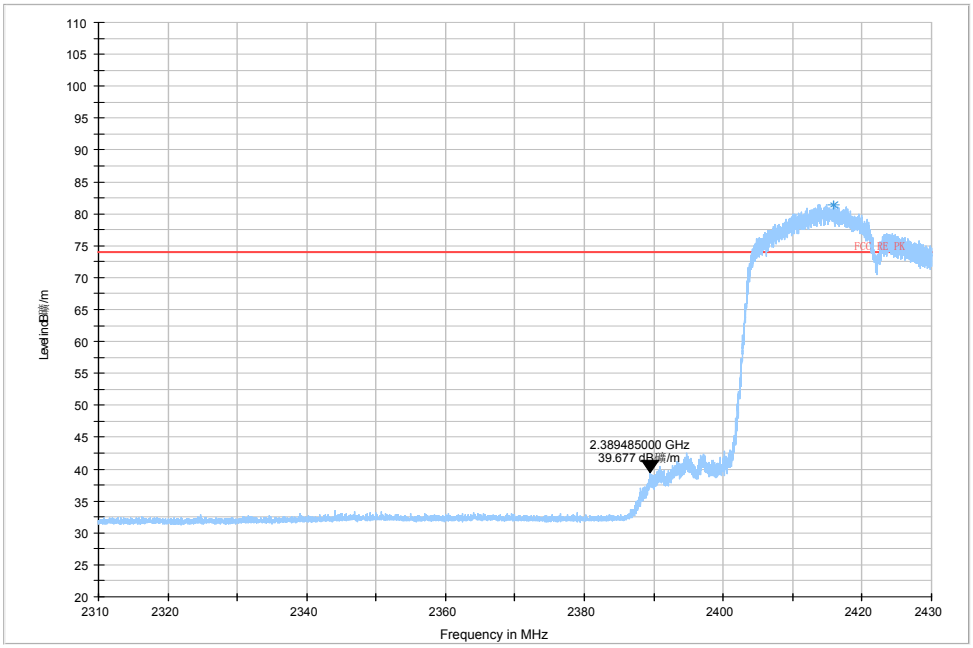
Average



Note: The signal beyond the limit is carrier

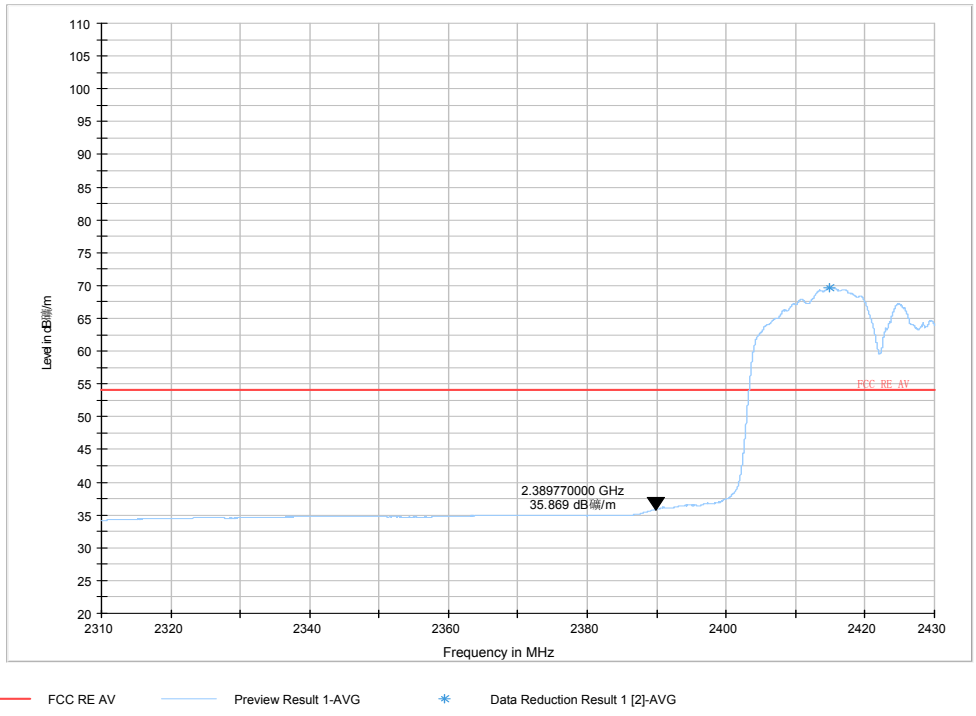
802.11n-Channel 3(HT40):

Peak



Note: The signal beyond the limit is carrier

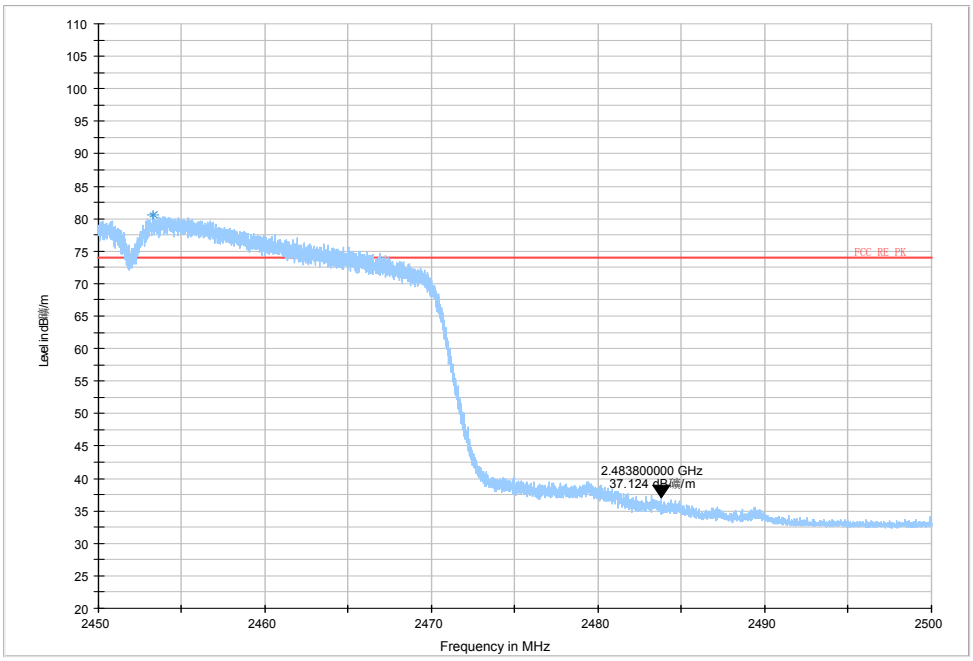
Average



Note: The signal beyond the limit is carrier

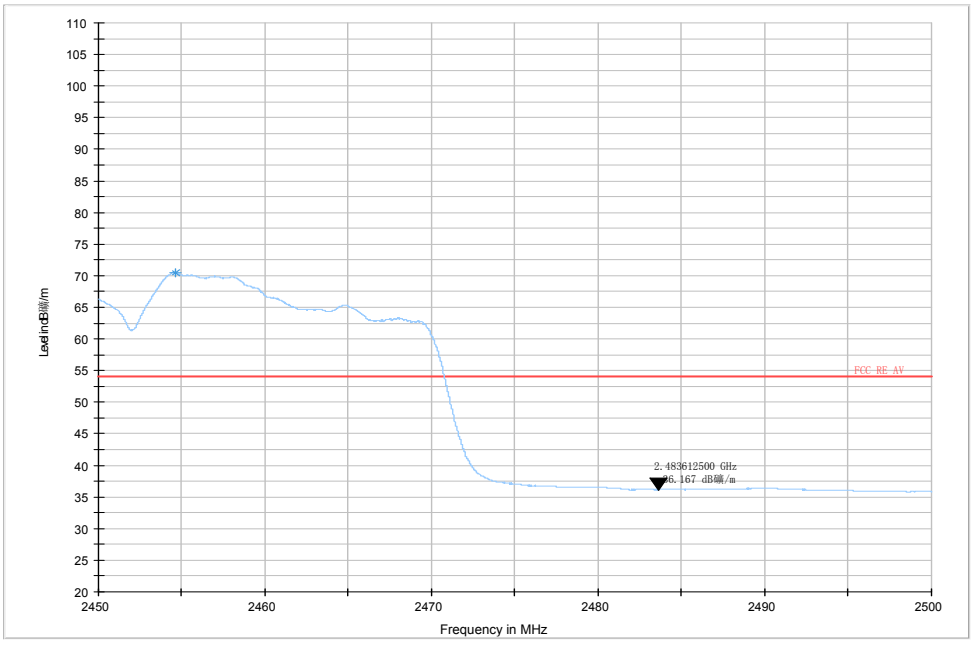
802.11n-Channel 9(HT40):

Peak



Note: The signal beyond the limit is carrier

Average



Note: The signal beyond the limit is carrier

5.5. Power Spectral Density

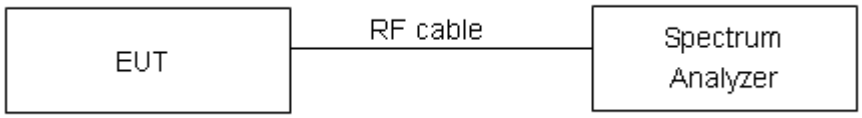
Ambient condition

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 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

Measurement Uncertainty

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

Test Results:

Network Standards	Channel Number	Power Spectral Density dBm / 3kHz	Conclusion
802.11b	1	-8.020	PASS
	6	-10.602	PASS
	11	-9.694	PASS
802.11g	1	-12.696	PASS
	6	-12.023	PASS
	11	-11.103	PASS
802.11n HT20	1	-14.800	PASS
	6	-15.288	PASS
	11	-14.628	PASS
802.11n HT40	3	-19.350	PASS
	6	-20.465	PASS
	9	-21.873	PASS

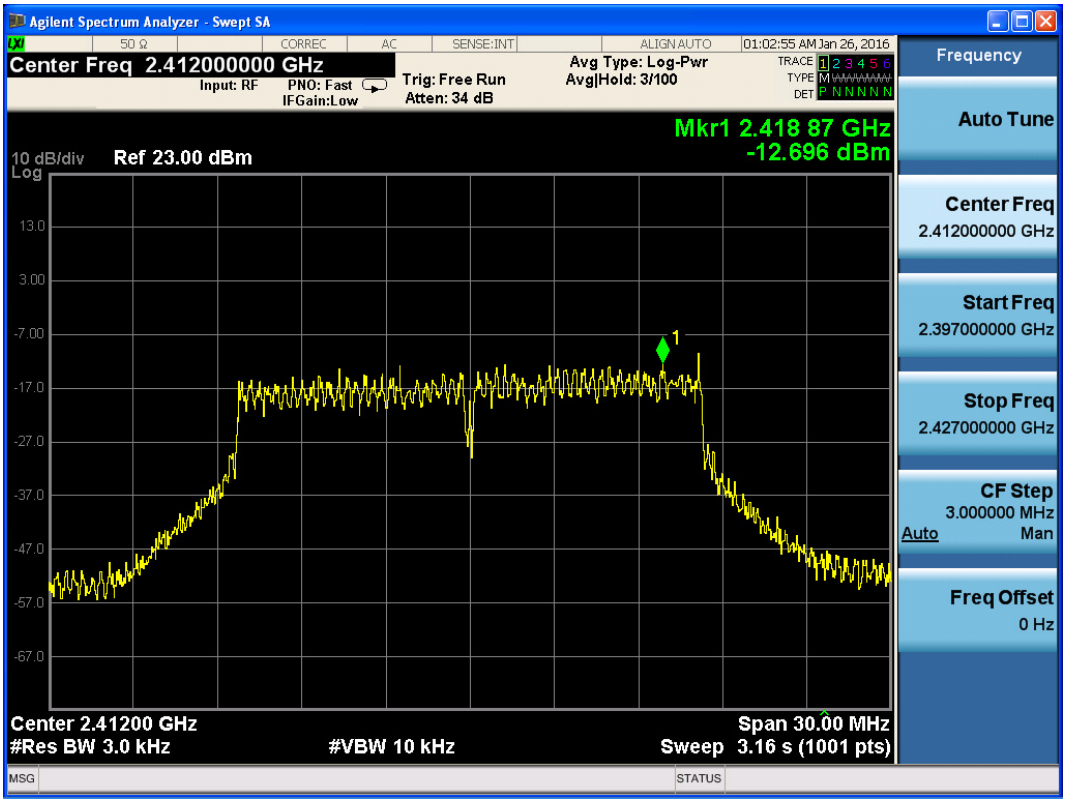
802.11b

802.11b, Channel No.: 1

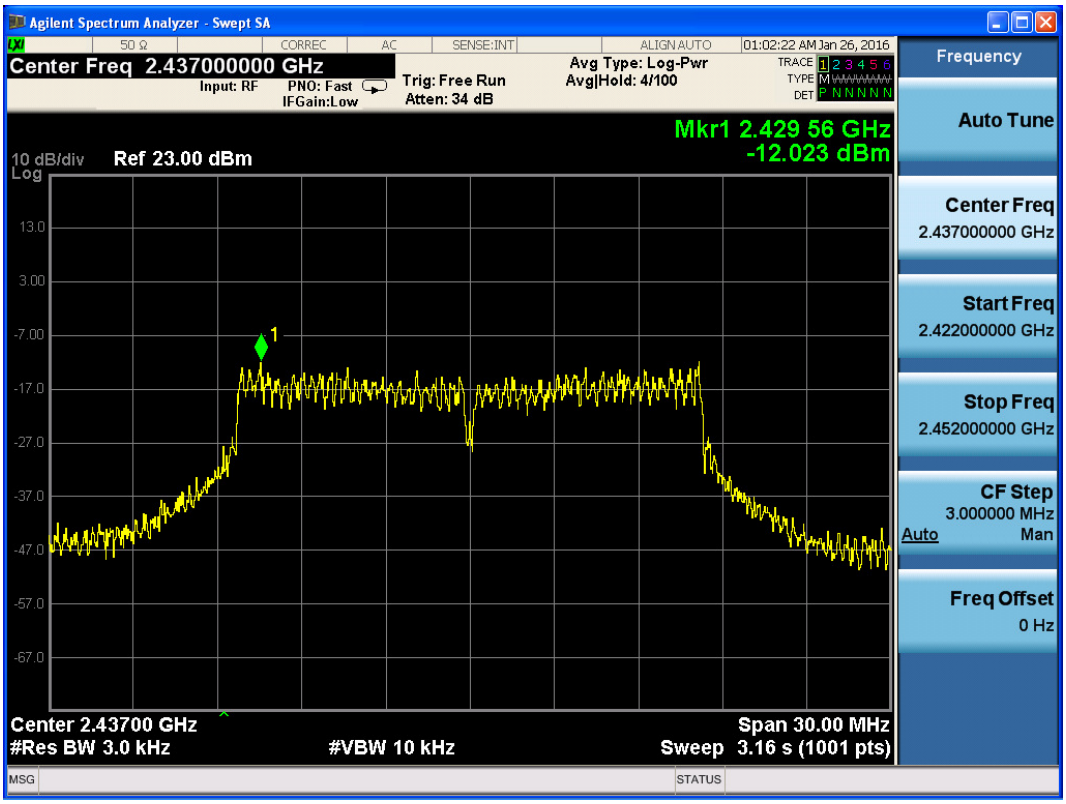
802.11b, Channel No.: 6

802.11b, Channel No.: 11

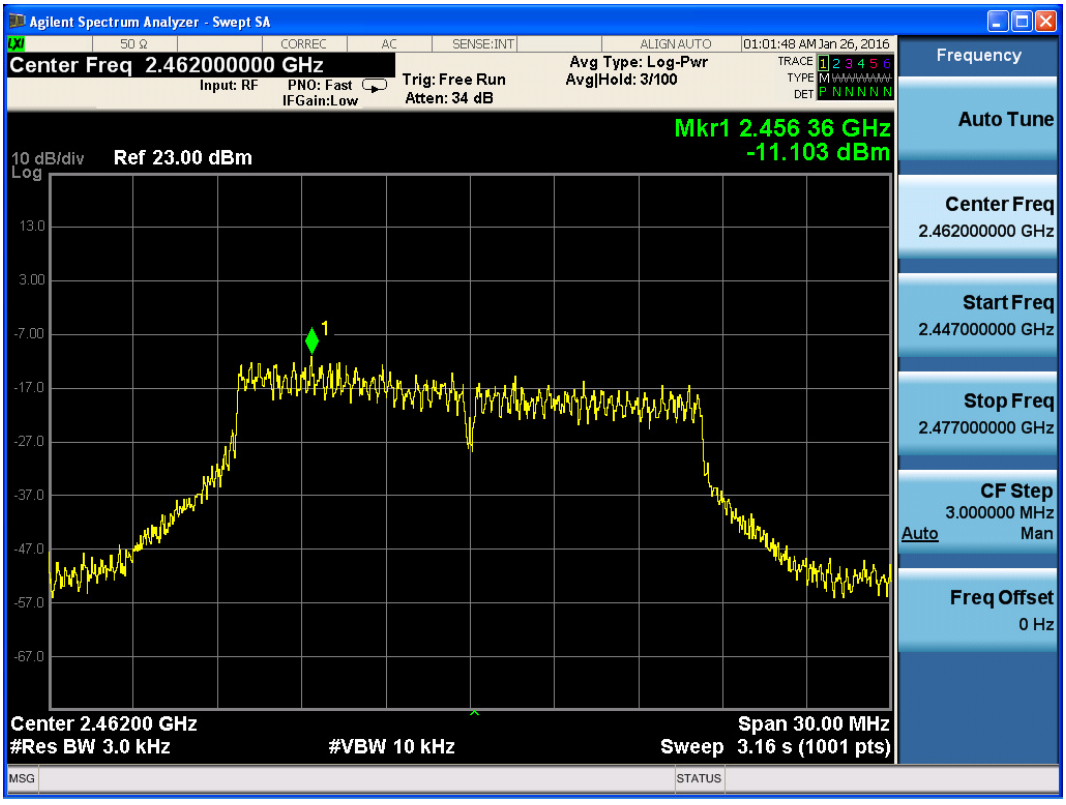
802.11g



802.11g, Channel No.: 1

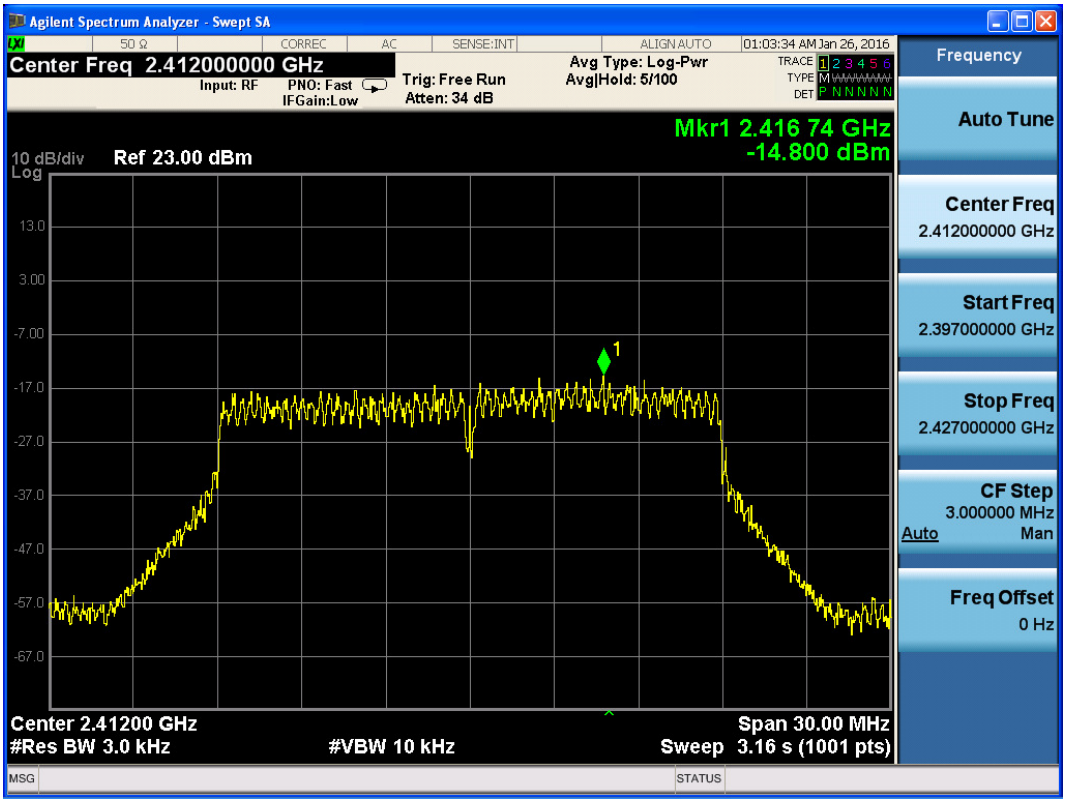


802.11g, Channel No.: 6

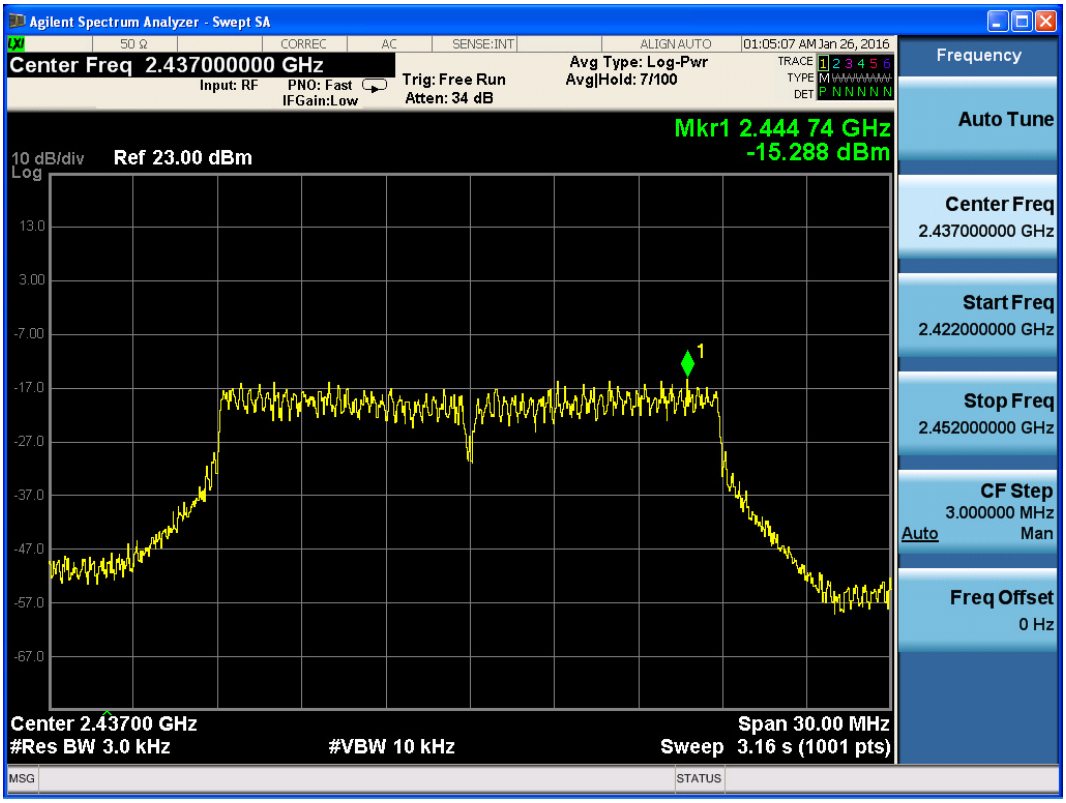


802.11g, Channel No.: 11

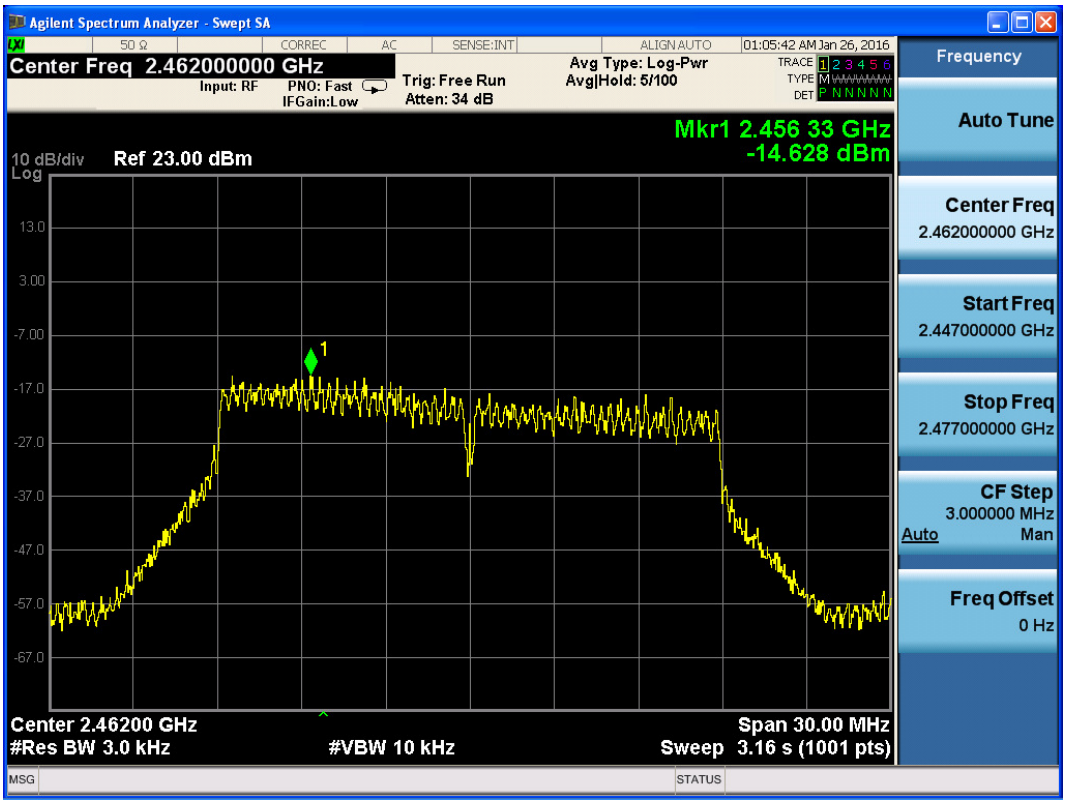
802.11n (HT20)



802.11n, Channel No.: 1

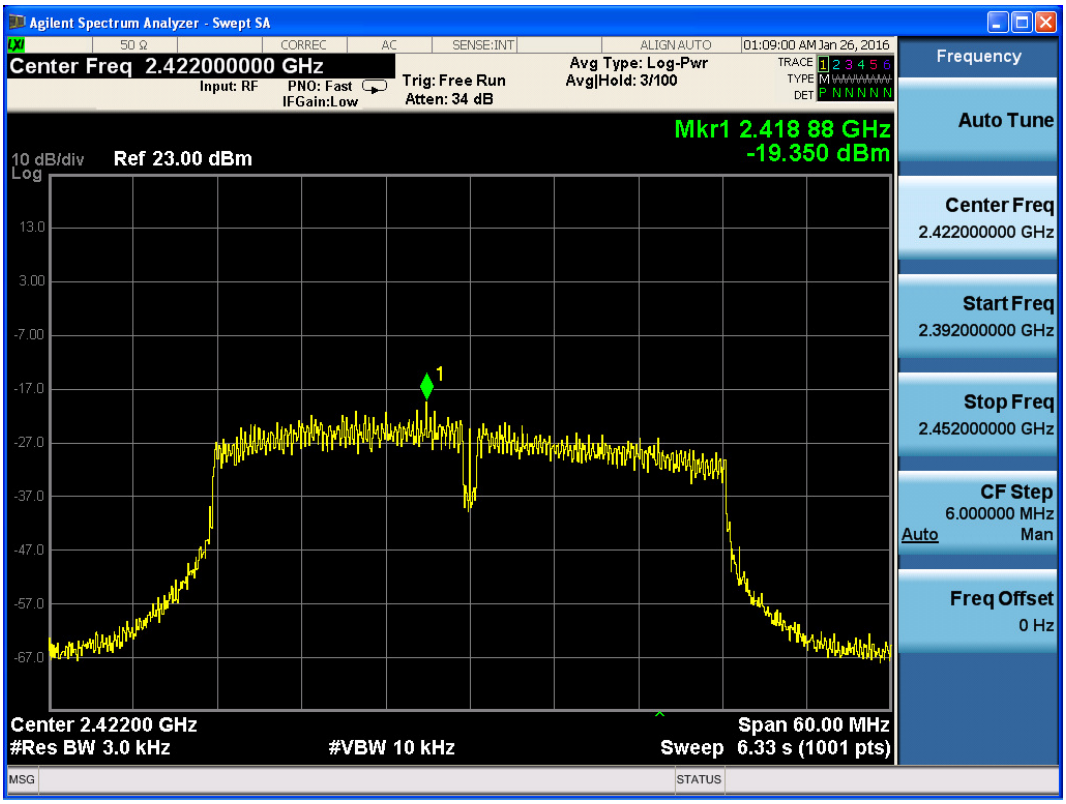


802.11n, Channel No.: 6

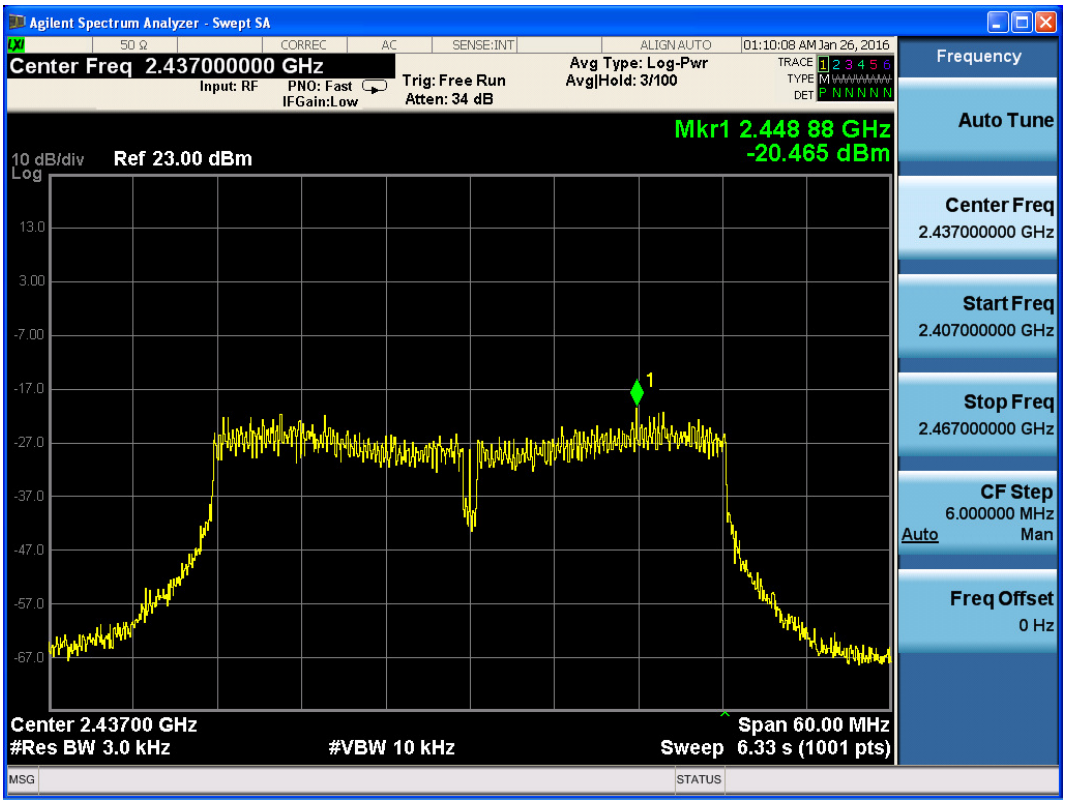


802.11n, Channel No.: 11

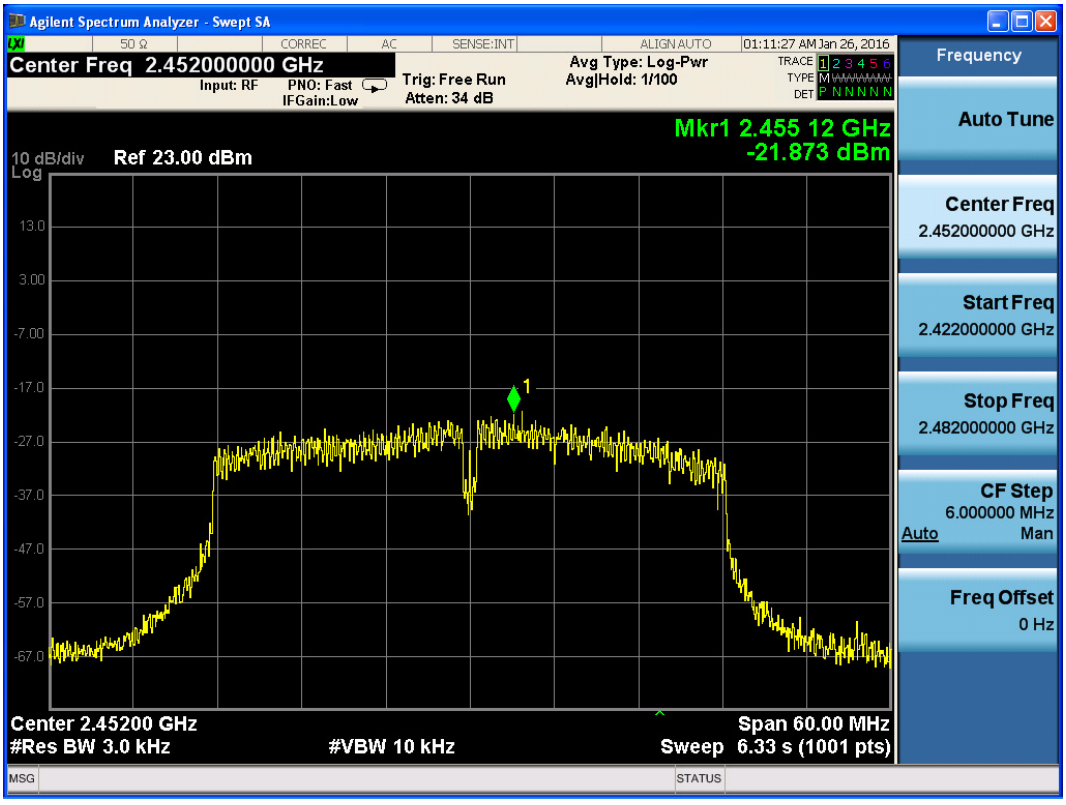
802.11n (HT40)



802.11n, Channel No.: 3



802.11n, Channel No.: 6



802.11n, Channel No.: 9

5.6. 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 and WIFI test set via a power splitter 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.

Test setup

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	4.36	≤-15.64
	2437	-7.47	≤-27.47
	2462	-1.27	≤-21.27
802.11g	2412	4.67	≤-15.33
	2437	-1.36	≤-21.36
	2462	1.85	≤-18.15
802.11n HT20	2412	1.42	≤-18.58
	2437	-4.38	≤-24.38
	2462	-1.03	≤-21.03
802.11n HT40	2422	-4.02	≤-24.02
	2437	-6.09	≤-26.09
	2452	-5.02	≤-25.02

Measurement Uncertainty

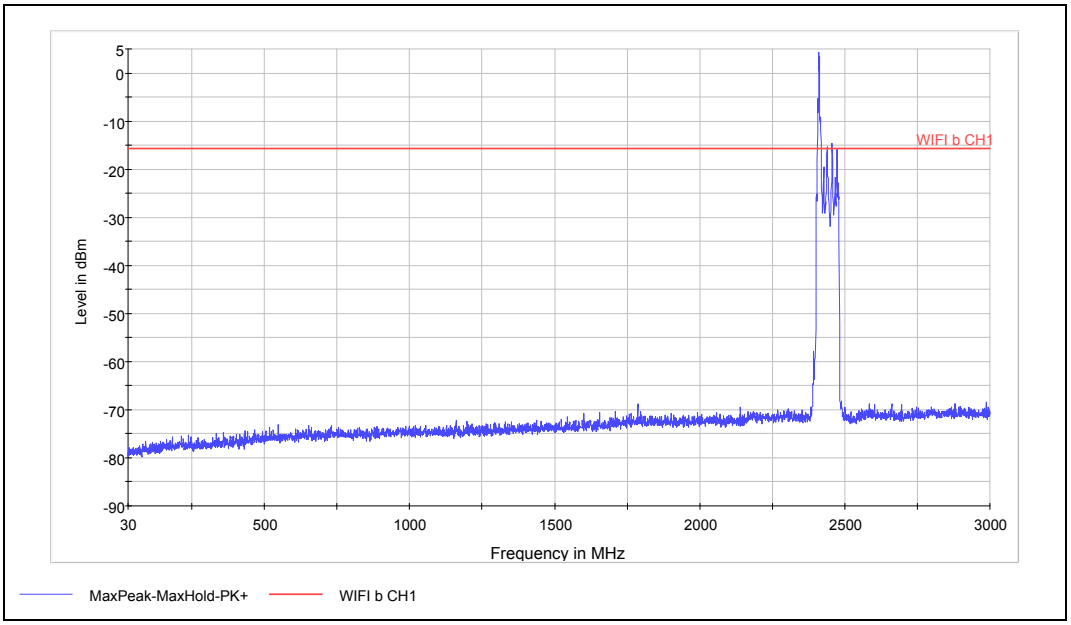
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26.5GHz	1.407 dB

Test Results:

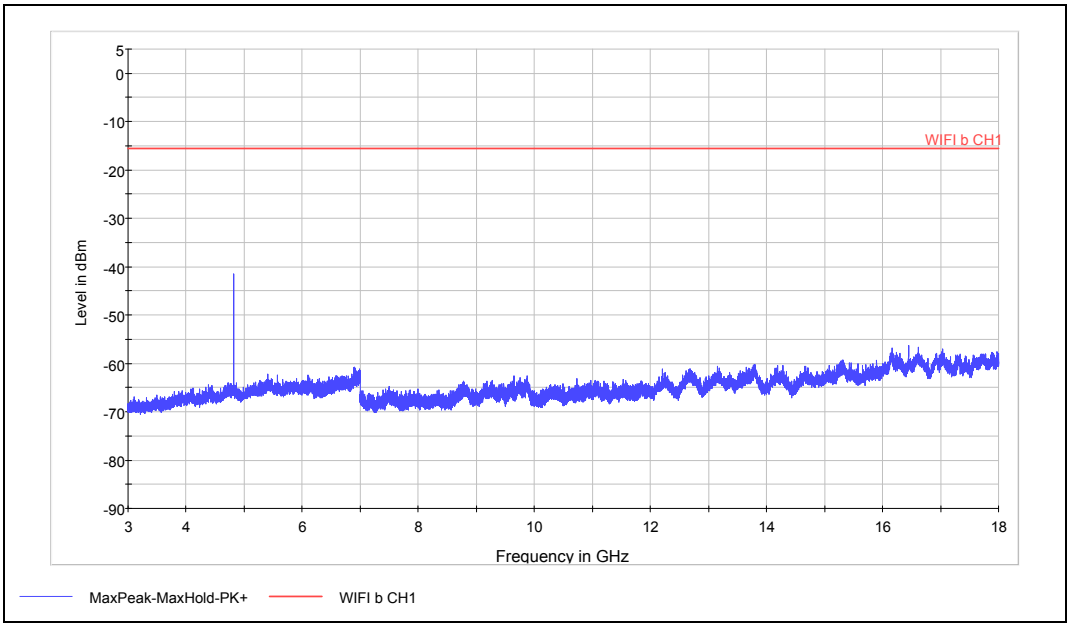
If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.

802.11b CH1

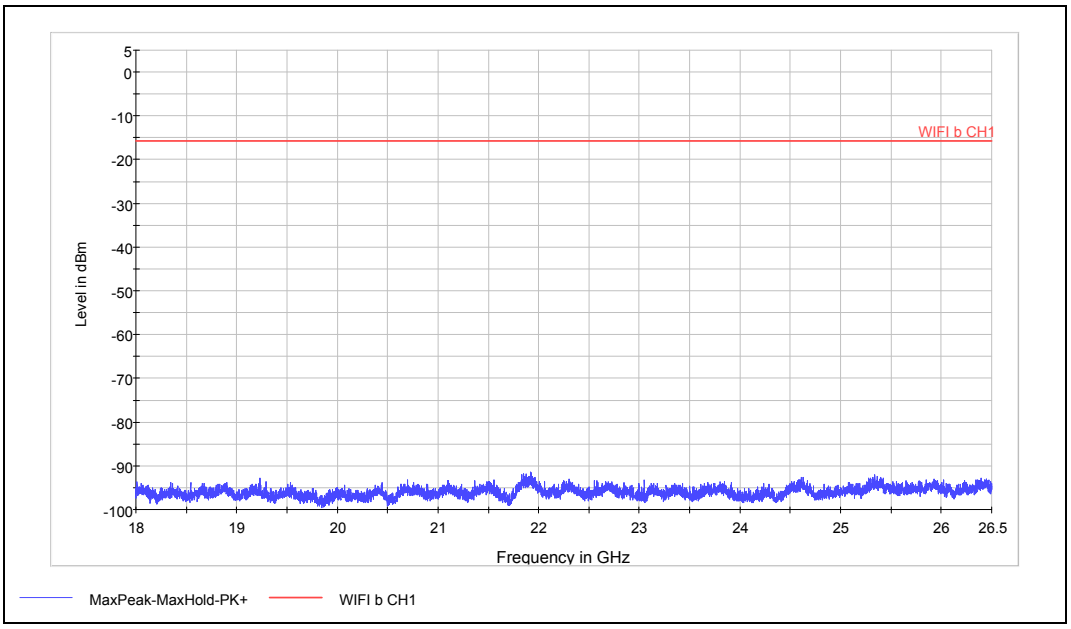


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

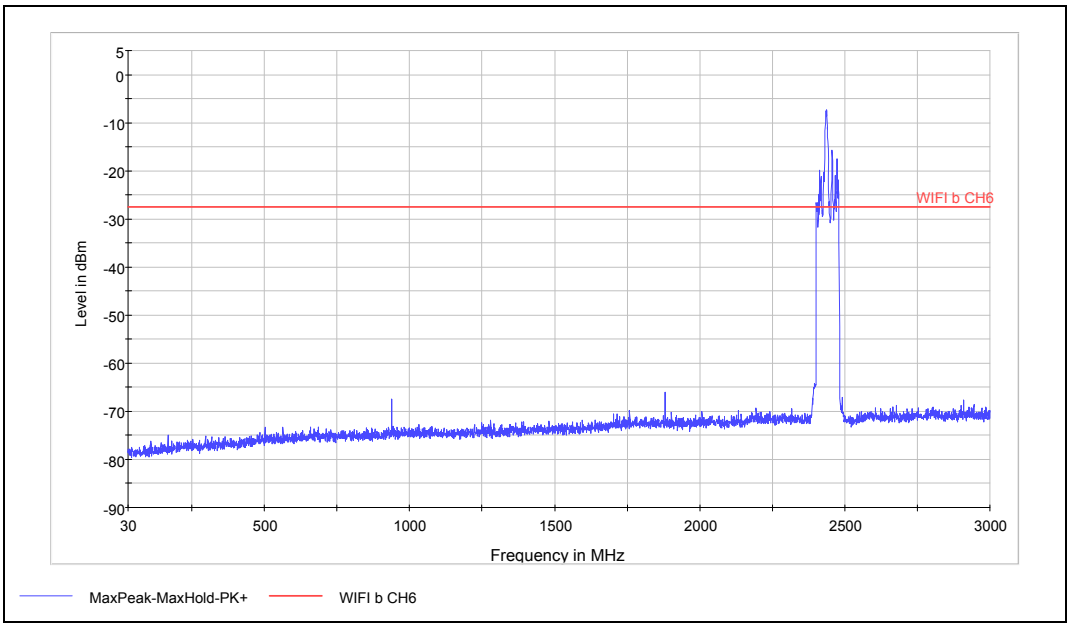


Spurious RF conducted emissions from 3GHz to 18GHz



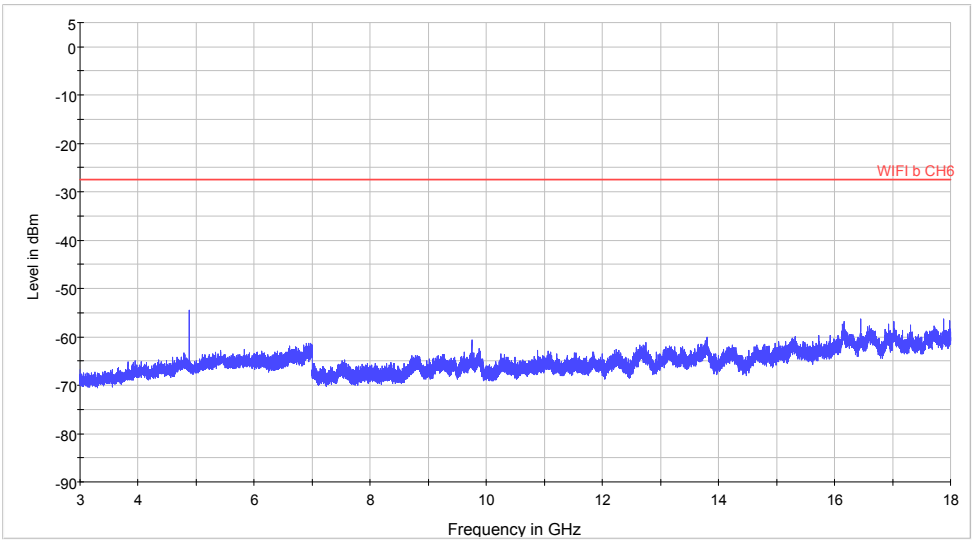
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11b CH6

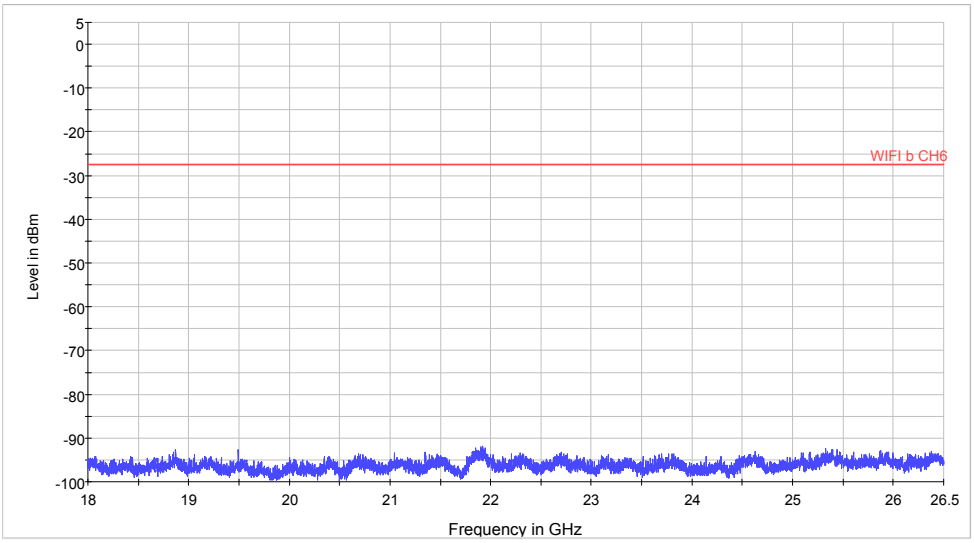


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

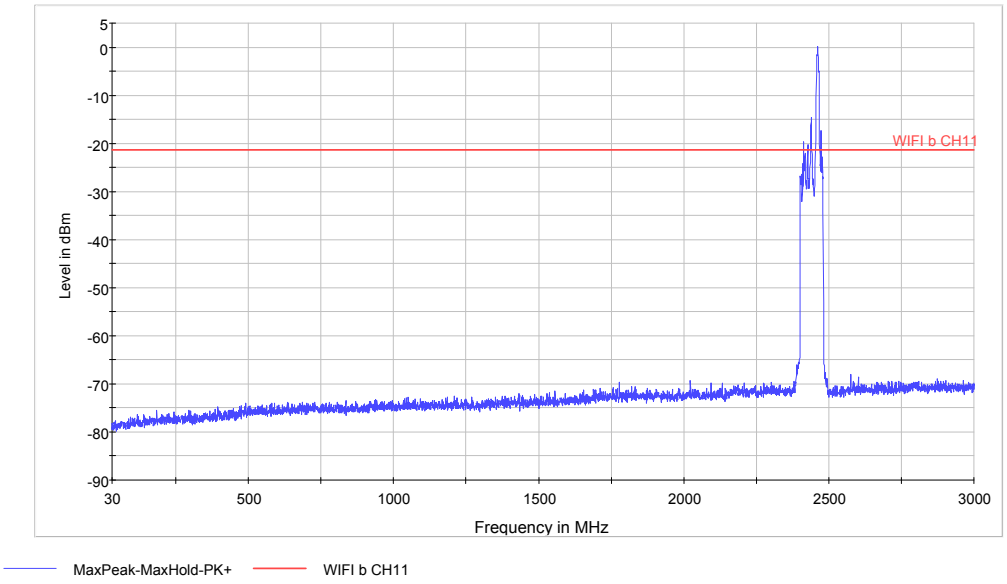


Spurious RF conducted emissions from 3GHz to 18GHz



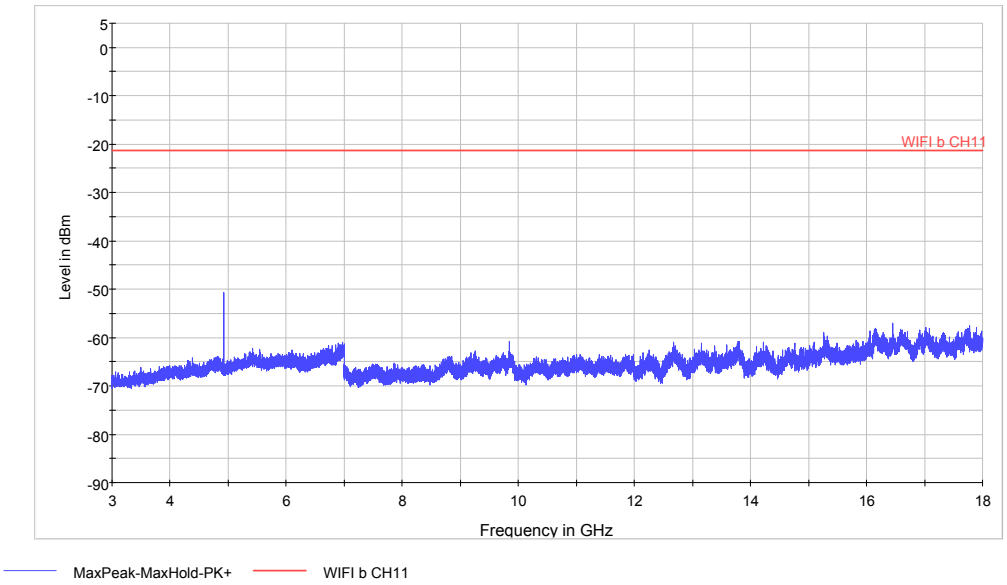
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11b CH11

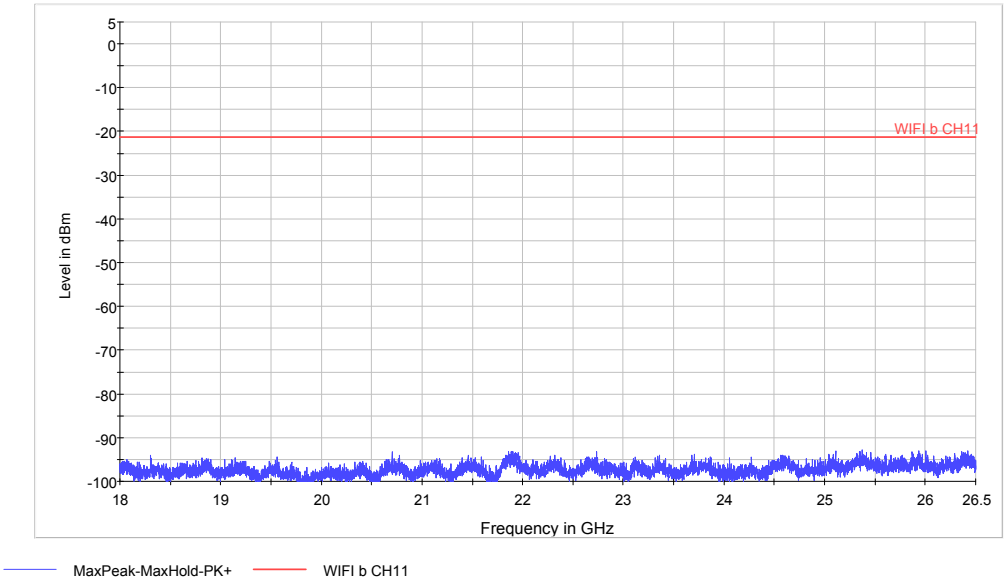


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

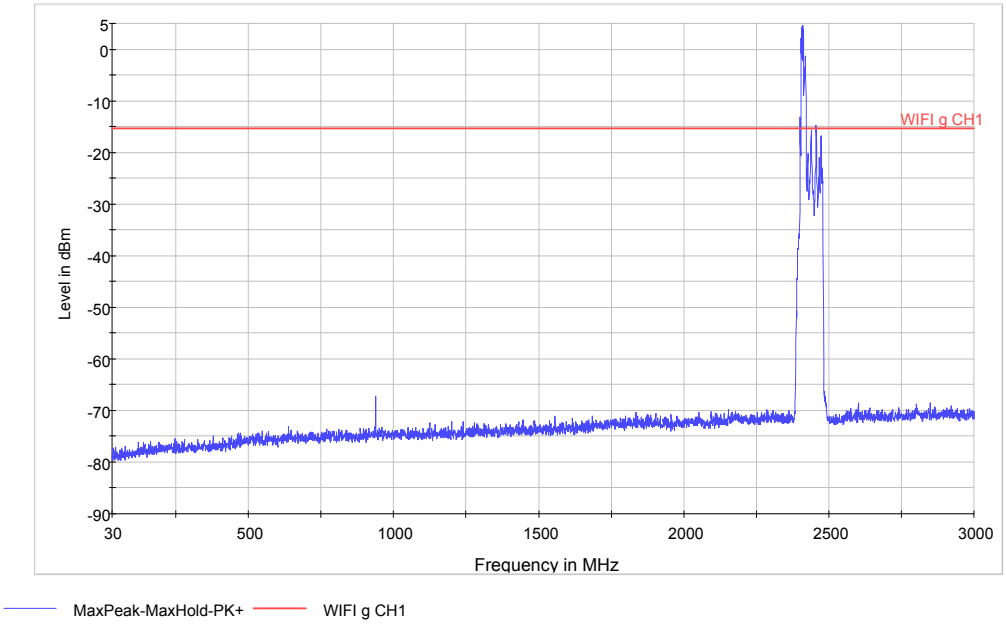


Spurious RF conducted emissions from 3GHz to 18GHz



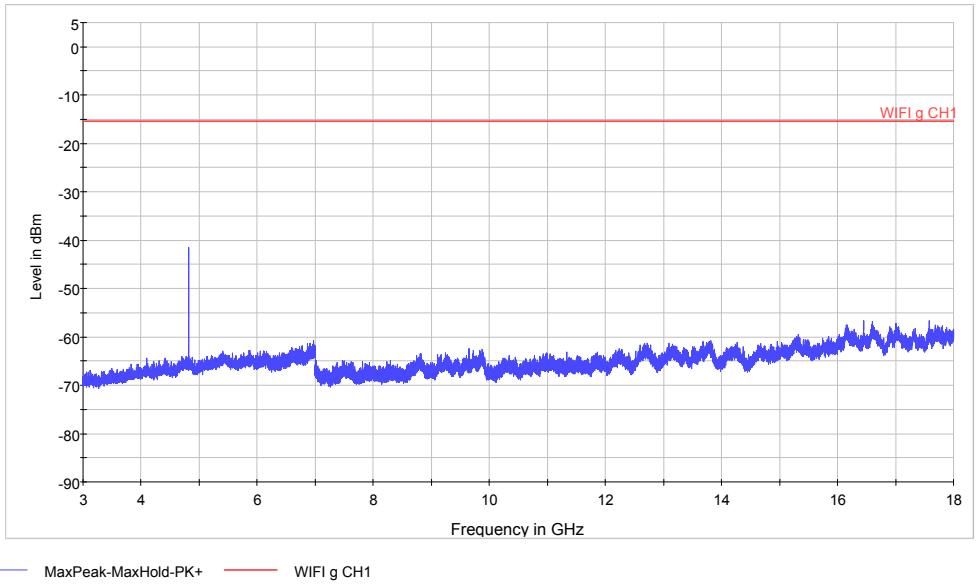
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11g CH1

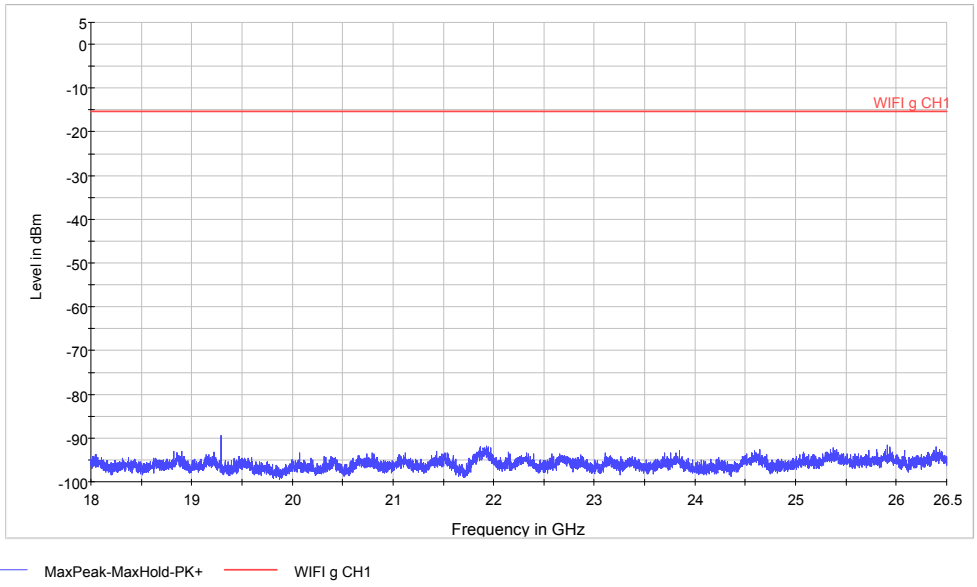


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

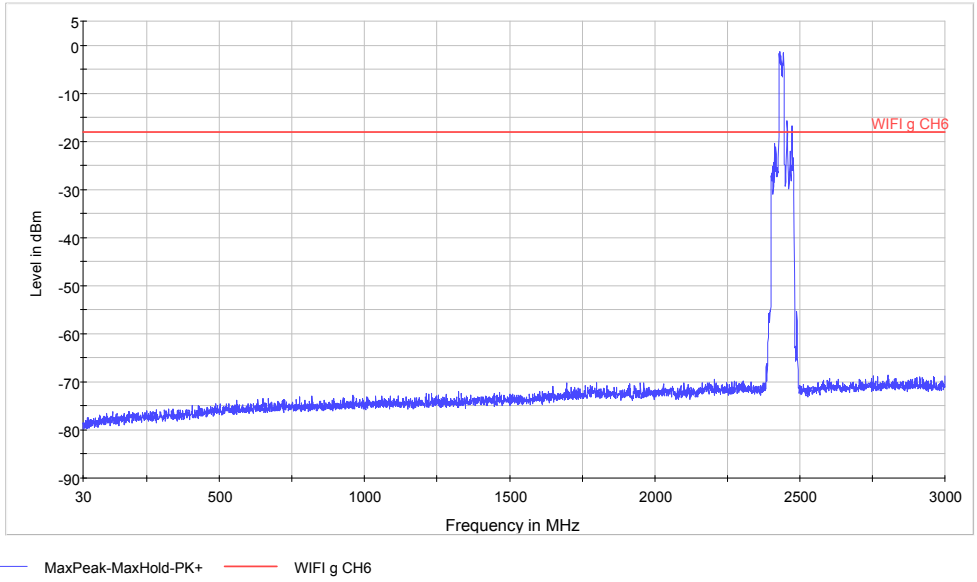


Spurious RF conducted emissions from 3GHz to 18GHz



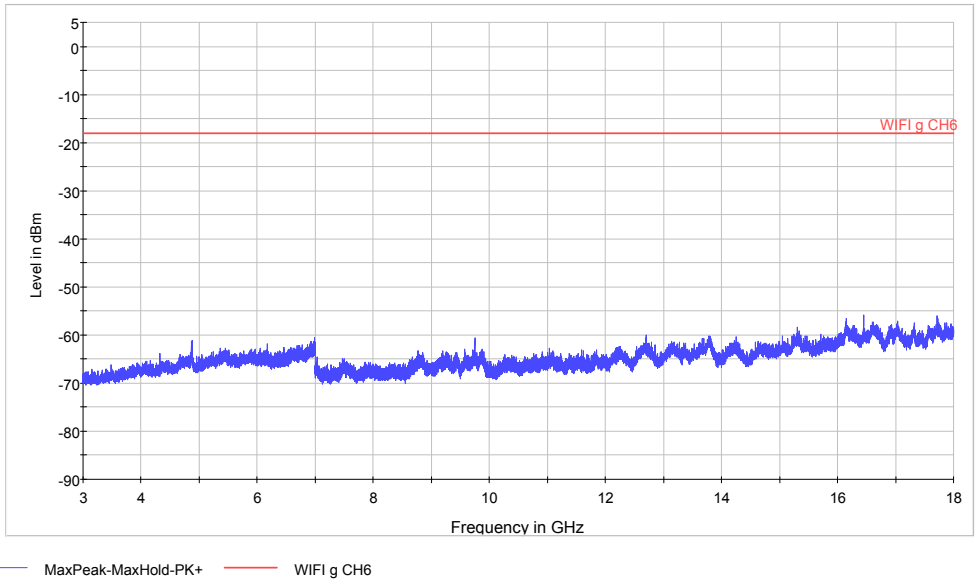
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11g CH6

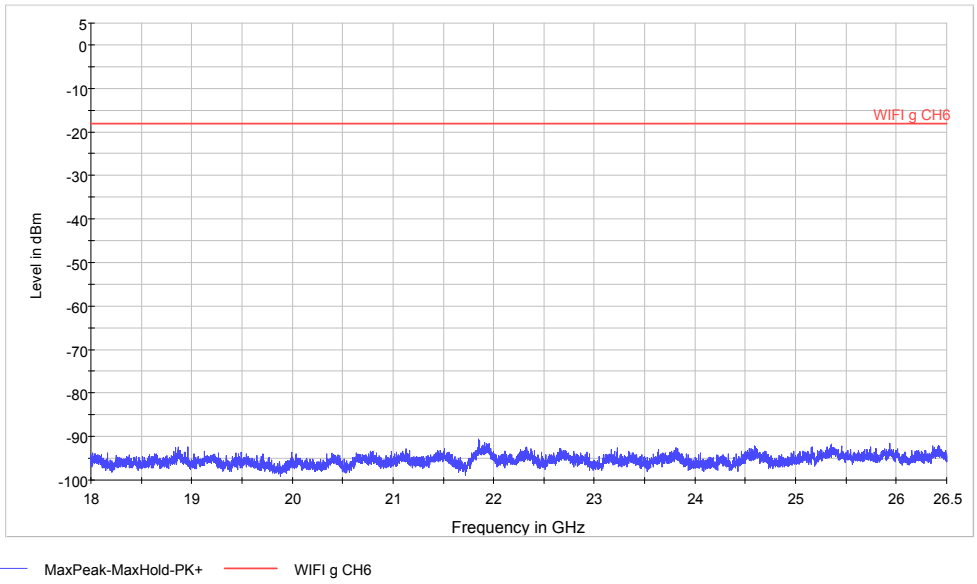


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

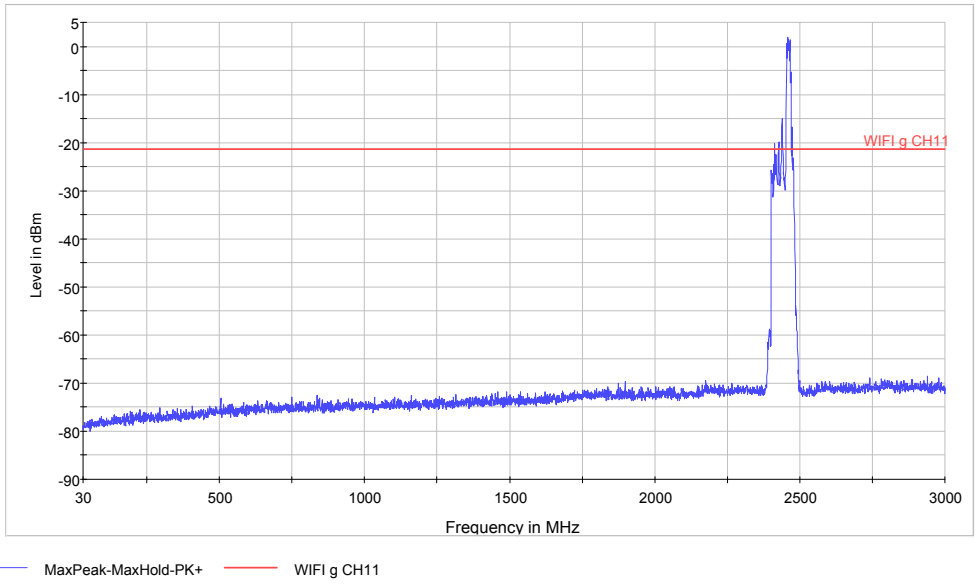


Spurious RF conducted emissions from 3GHz to 18GHz



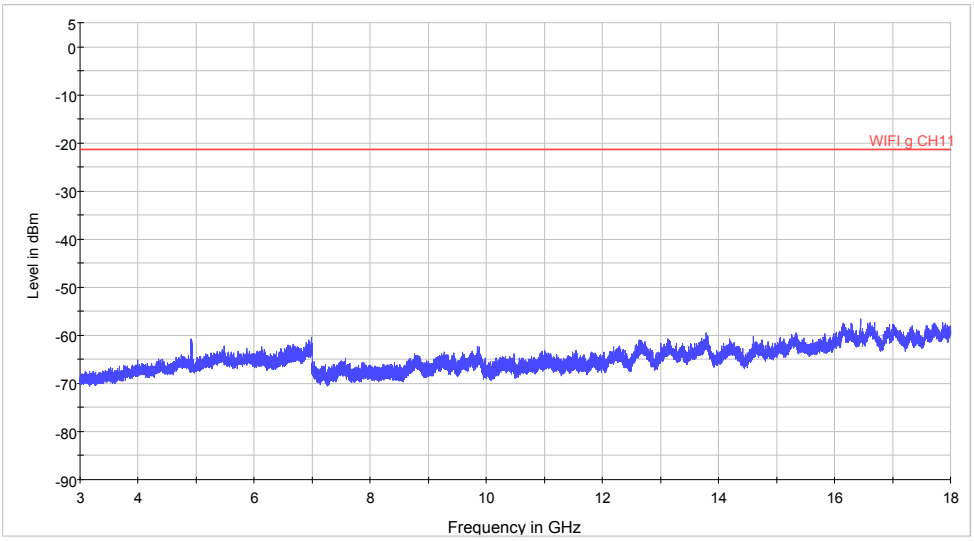
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11g CH11

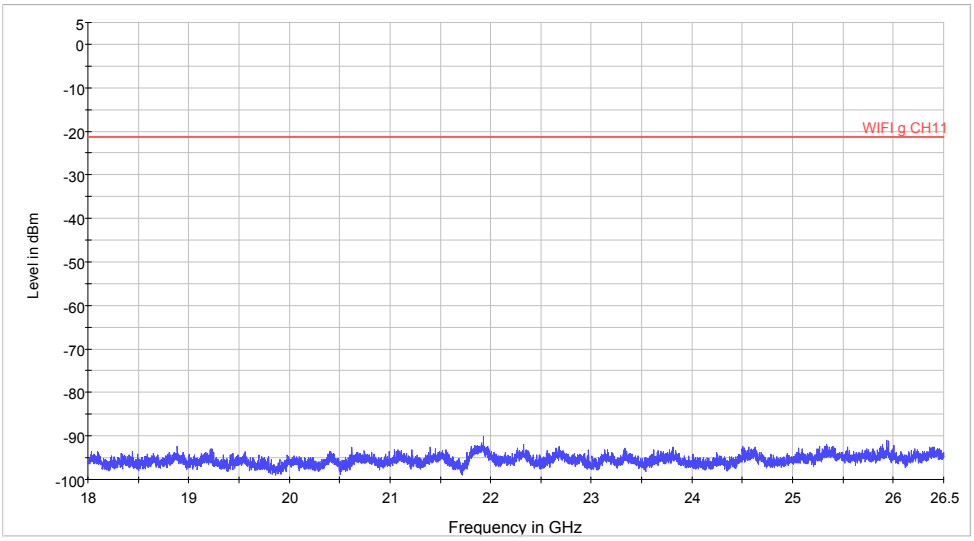


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

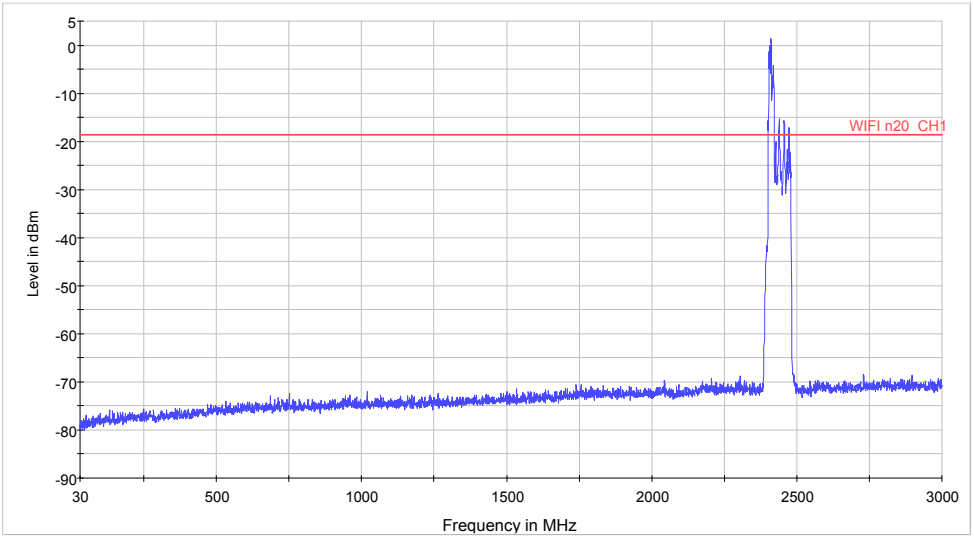


Spurious RF conducted emissions from 3GHz to 18GHz



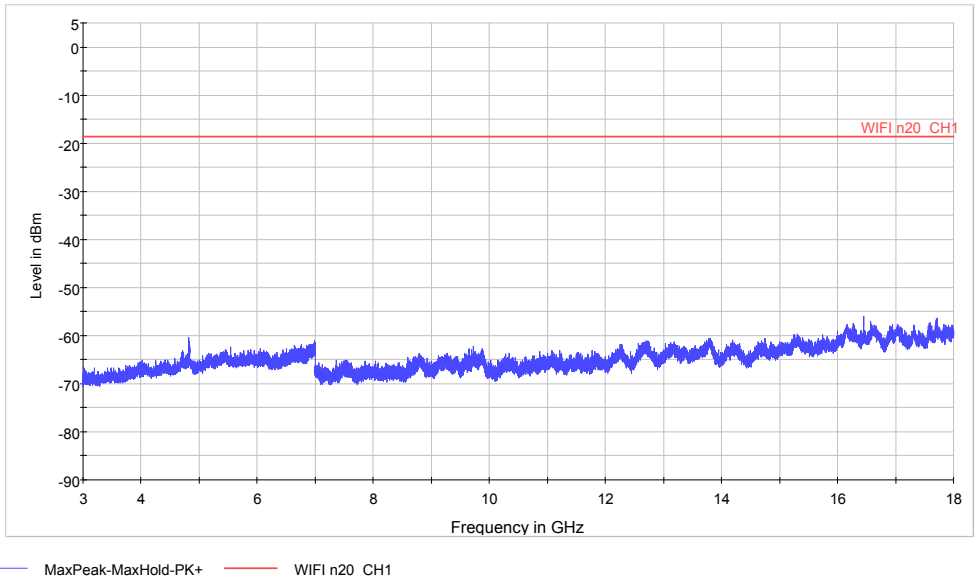
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11n (HT20) CH1

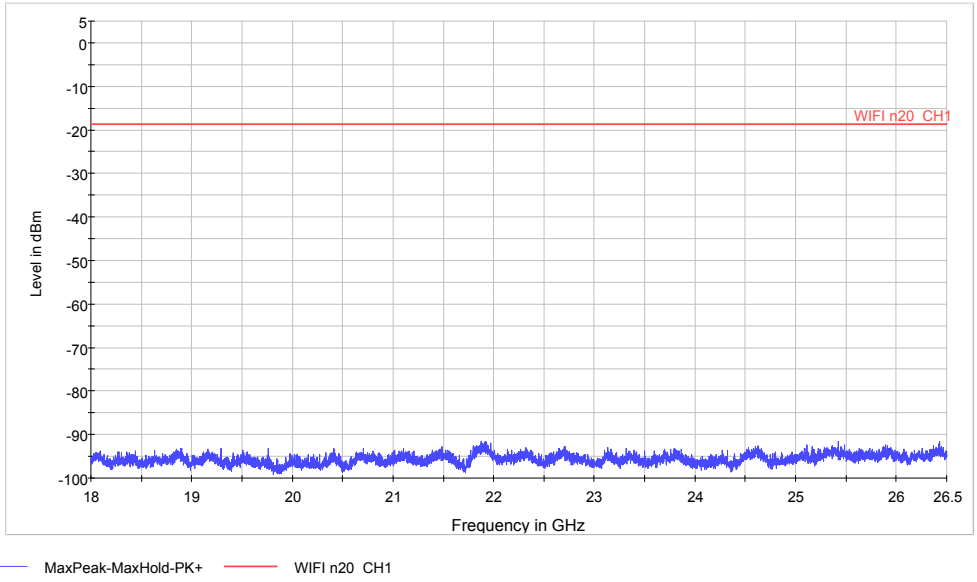


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

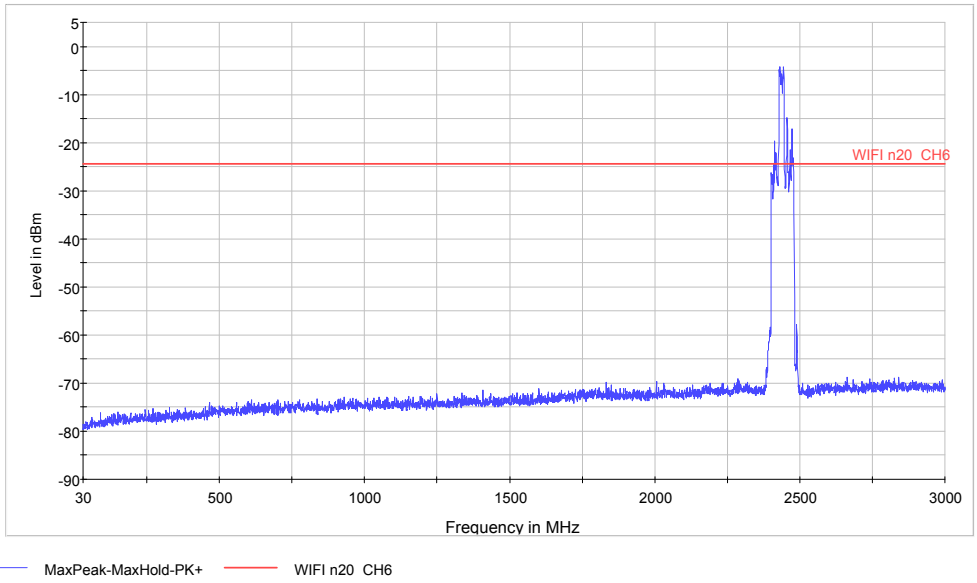


Spurious RF conducted emissions from 3GHz to 18GHz



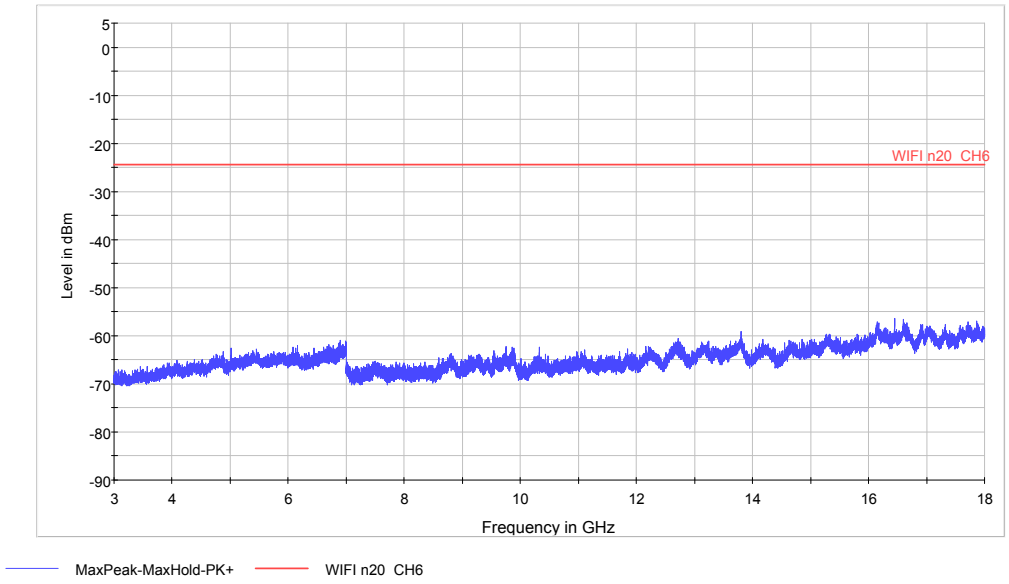
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11n (HT20) CH6

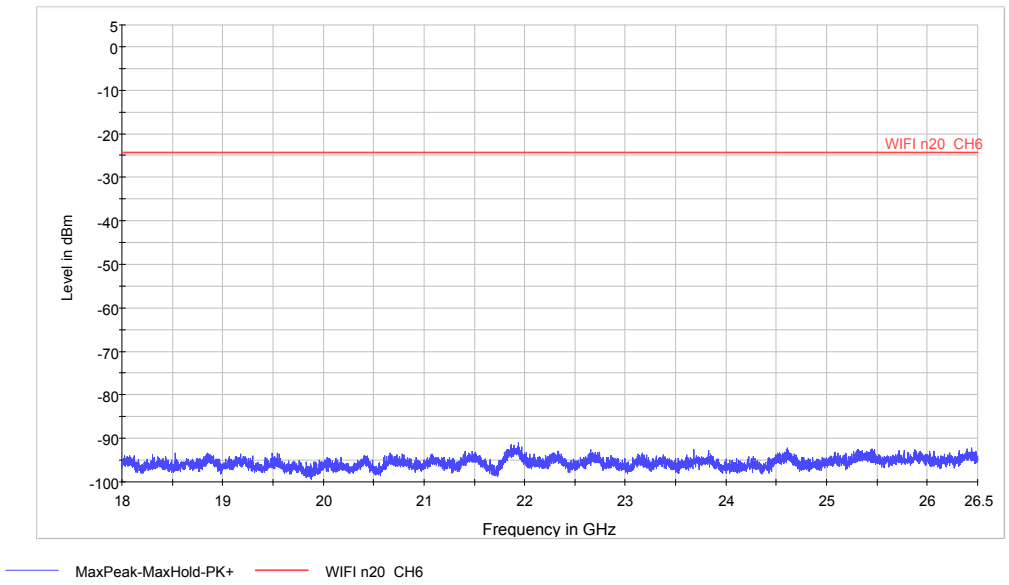


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

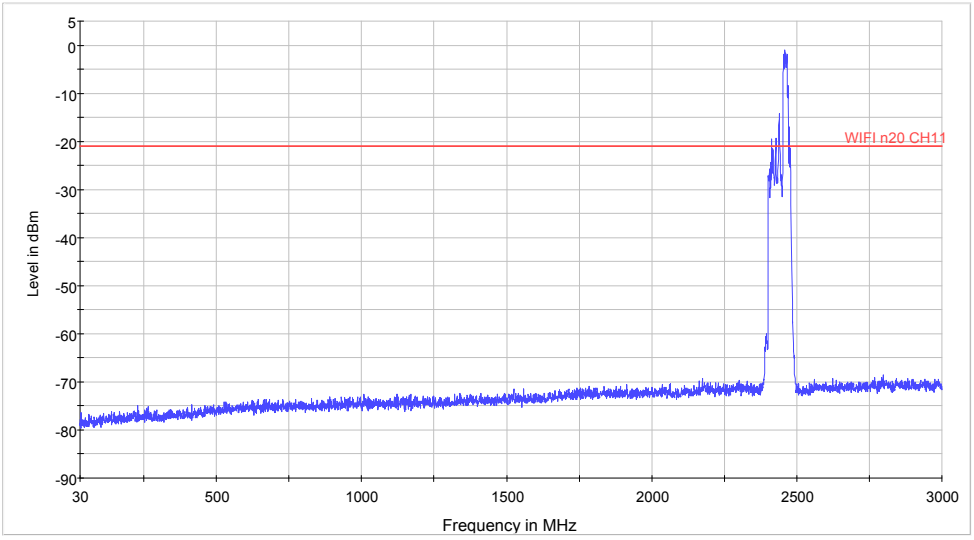


Spurious RF conducted emissions from 3GHz to 18GHz



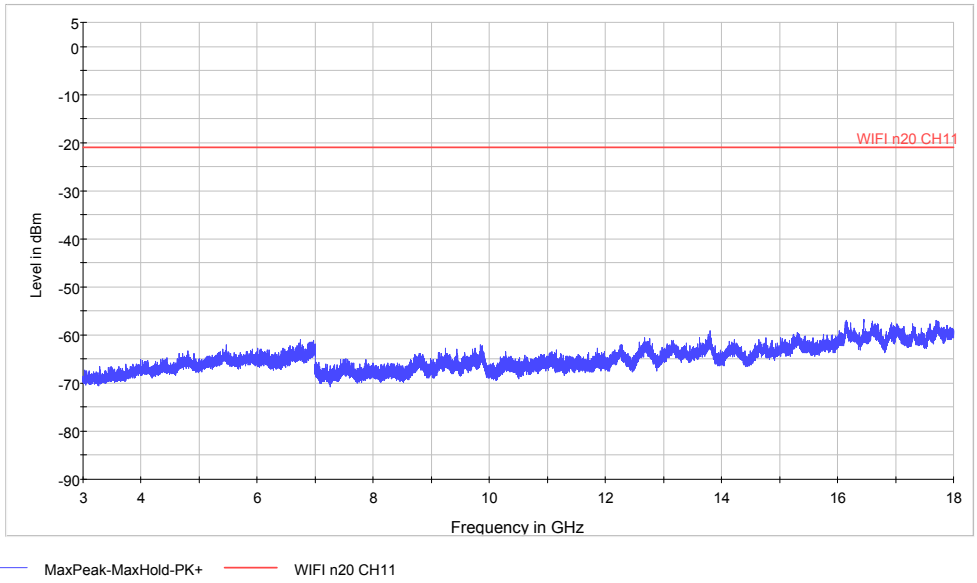
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11n (HT20) CH11

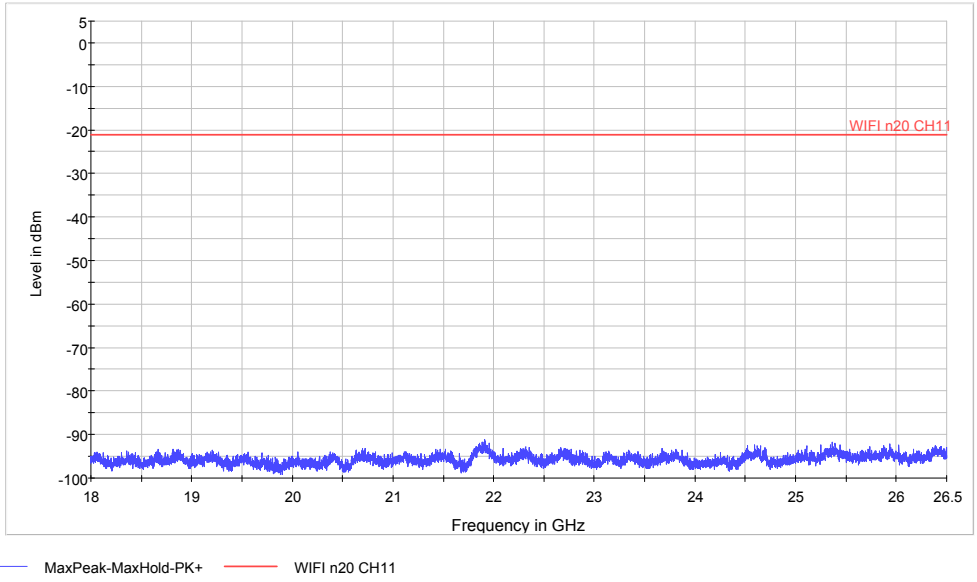


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

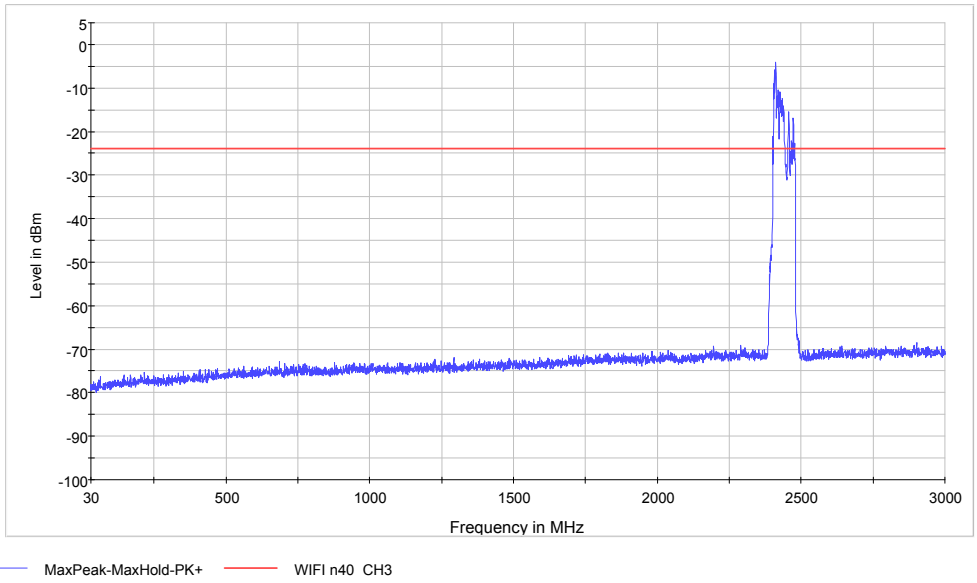


Spurious RF conducted emissions from 3GHz to 18GHz



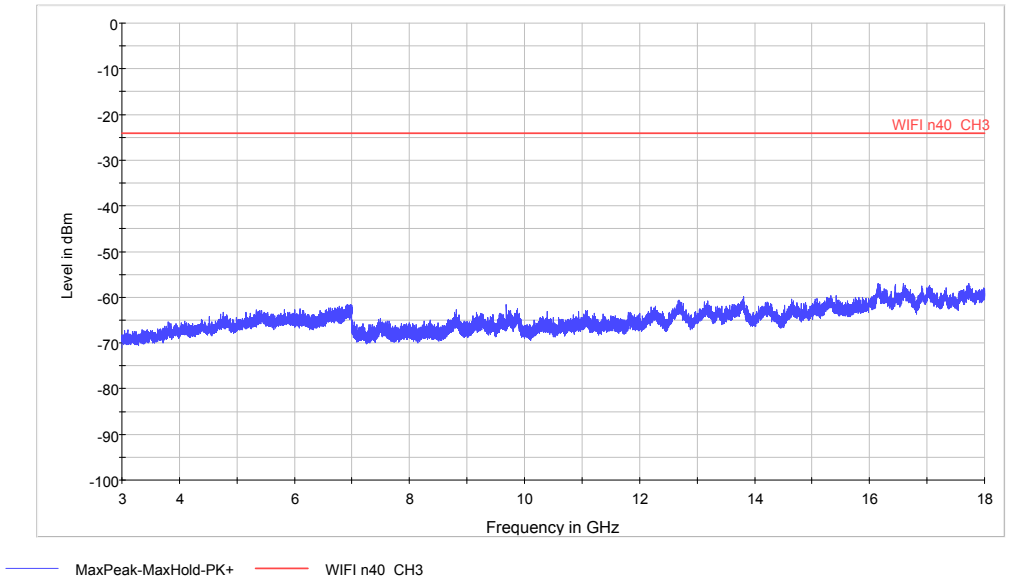
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11n (HT40) CH3

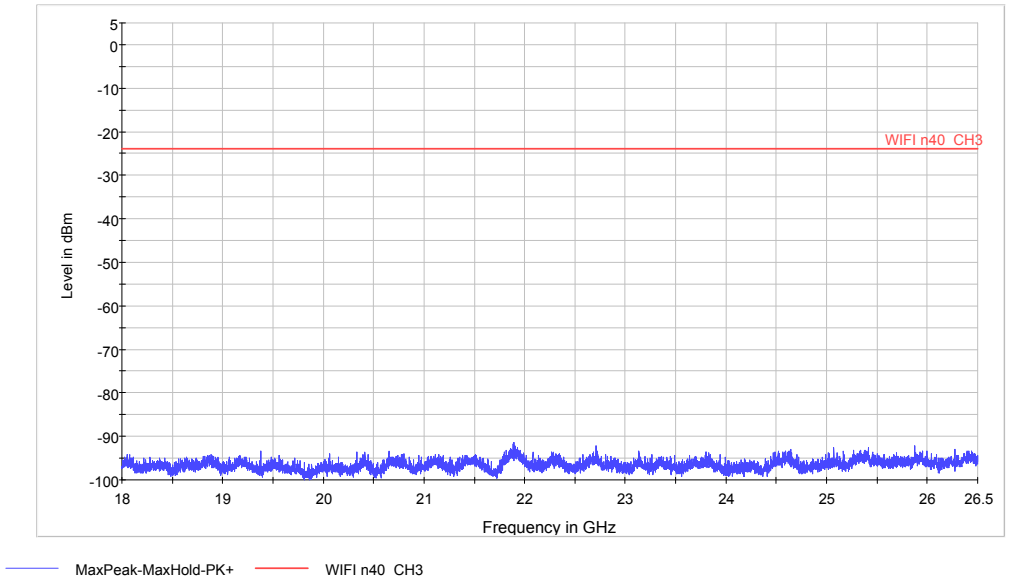


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

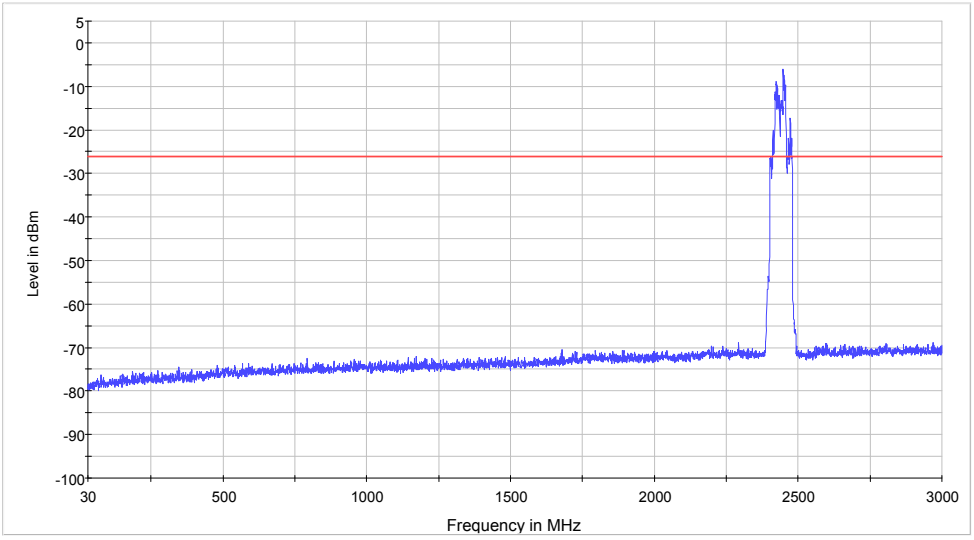


Spurious RF conducted emissions from 3GHz to 18GHz



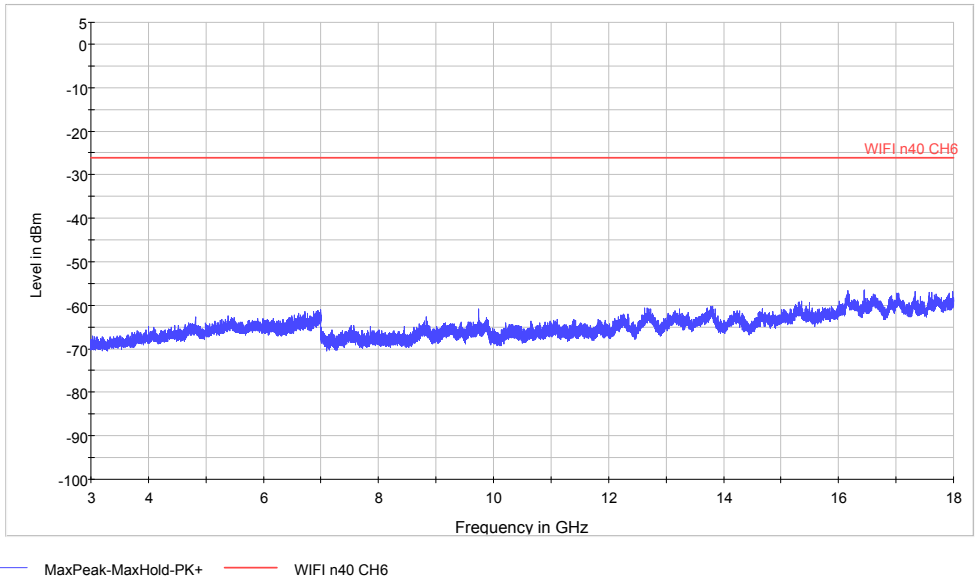
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11n (HT40) CH6

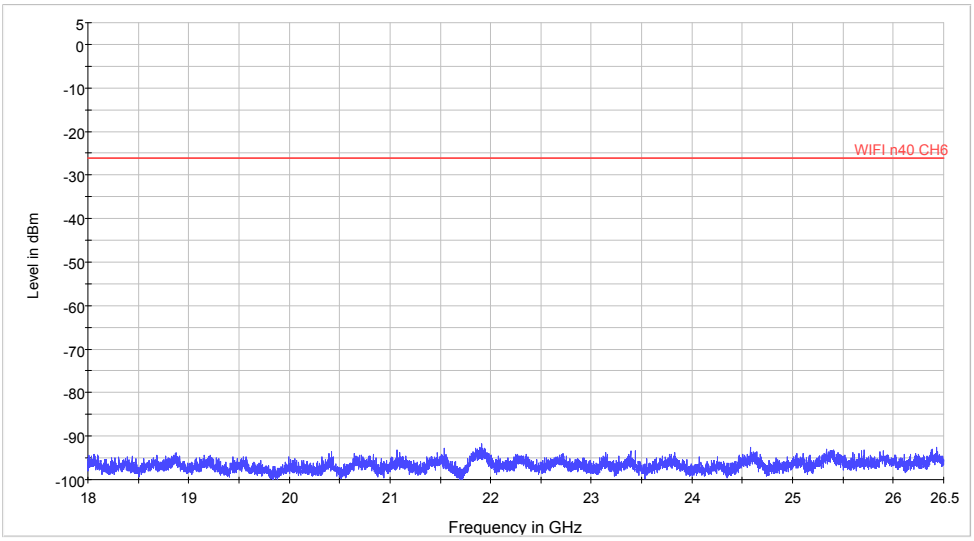


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz

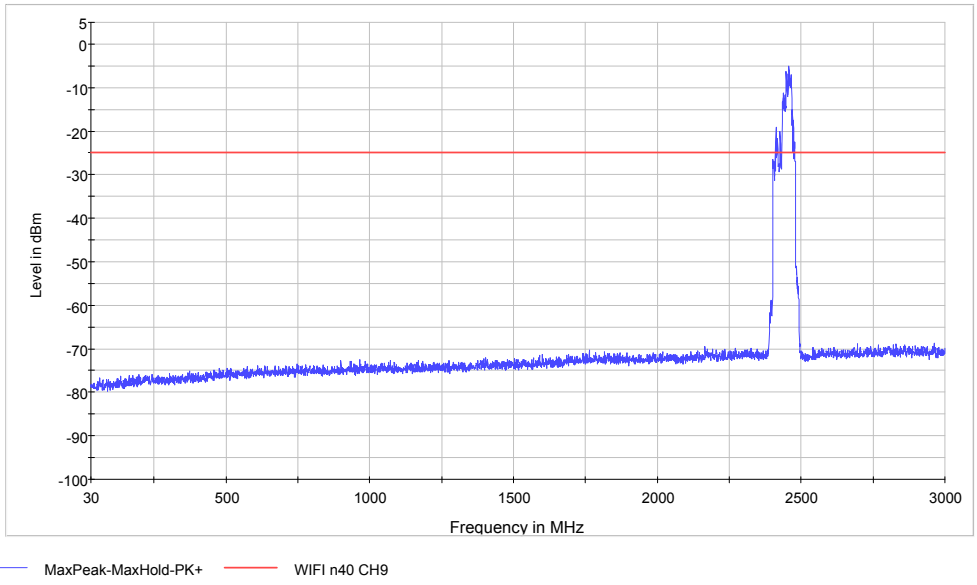


Spurious RF conducted emissions from 3GHz to 18GHz



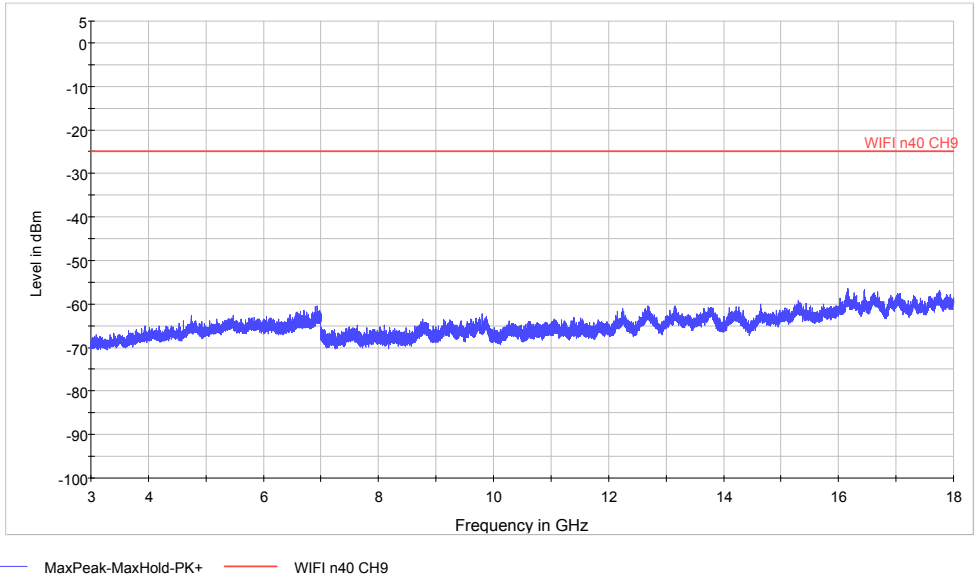
Spurious RF conducted emissions from 18GHz to 26.5GHz

802.11n (HT40) CH9

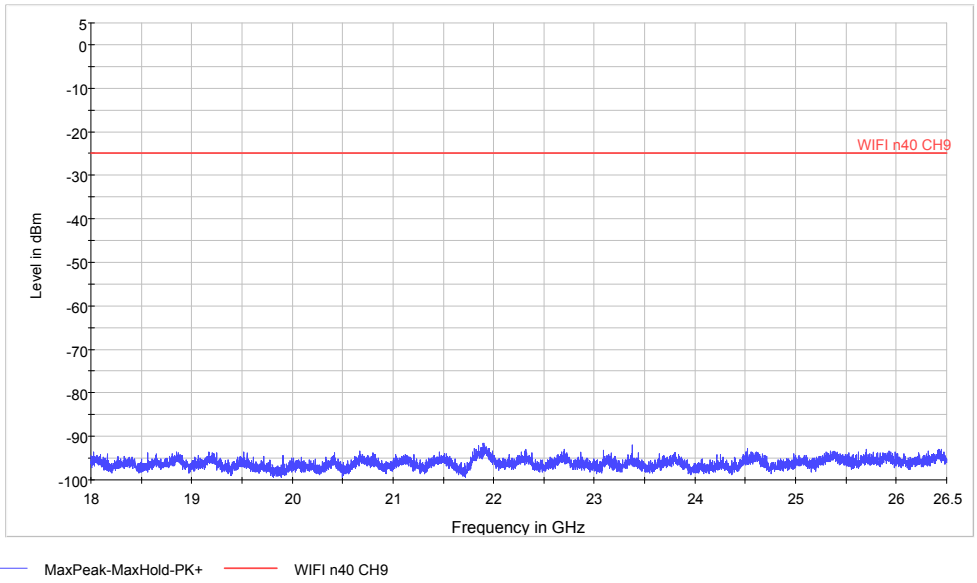


Note: The signal beyond the limit is carrier

Spurious RF conducted emissions from 30MHz to 3GHz



Spurious RF conducted emissions from 3GHz to 18GHz



Spurious RF conducted emissions from 18GHz to 26.5GHz

5.7. Radiates Emission

Ambient condition

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

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.4-2014. 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 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

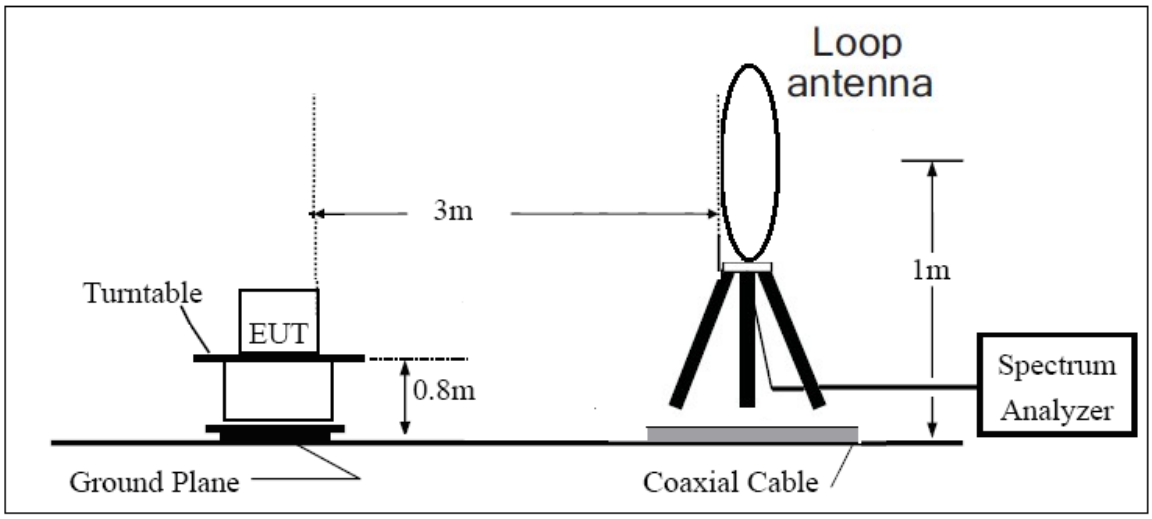
During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum 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=100kHz / VBW=300kHz / Sweep=AUTO
Above 1GHz(detector: Peak):
(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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

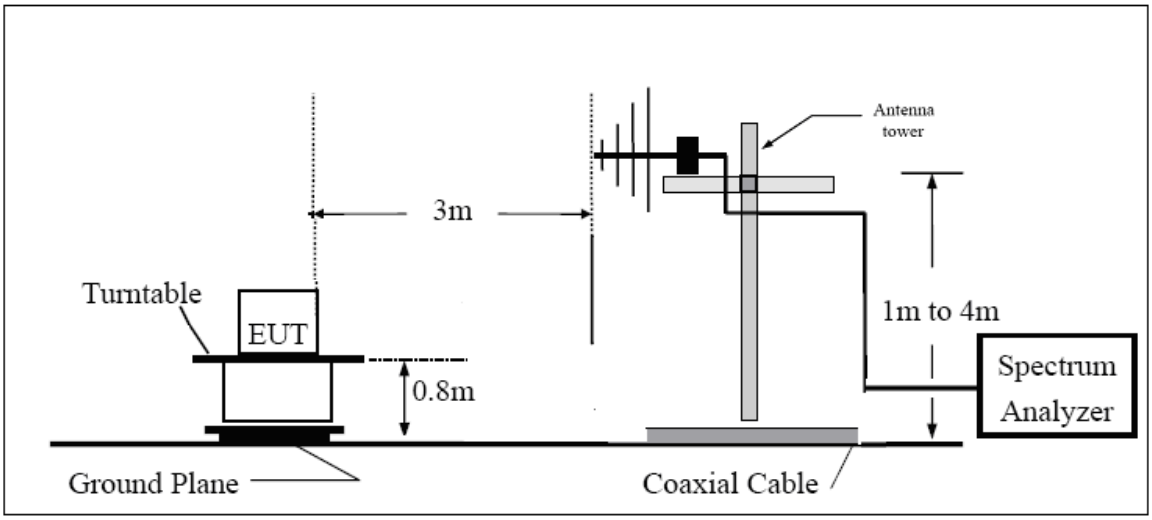
The test is in transmitting mode.

Test setup

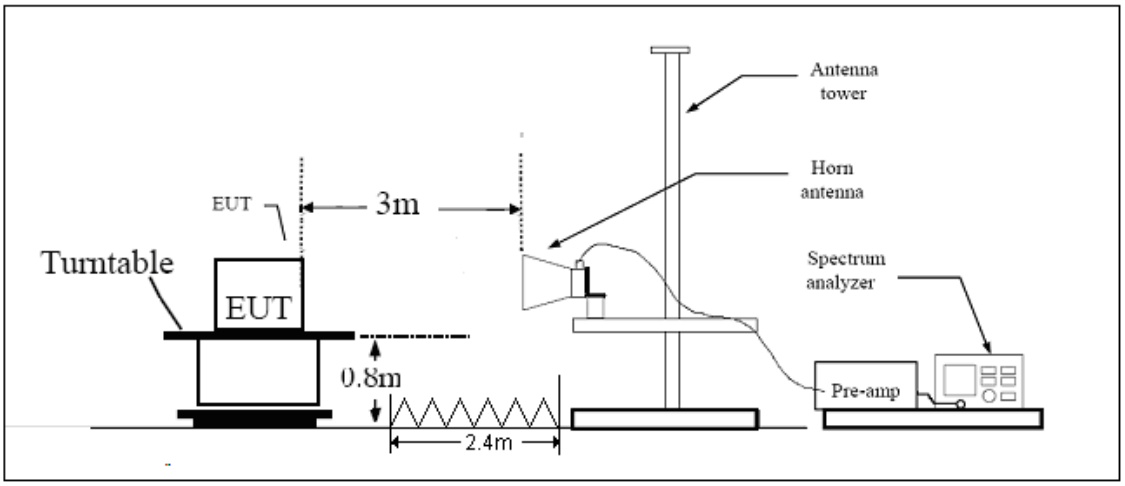
9KHz~~~ 30MHz



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

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

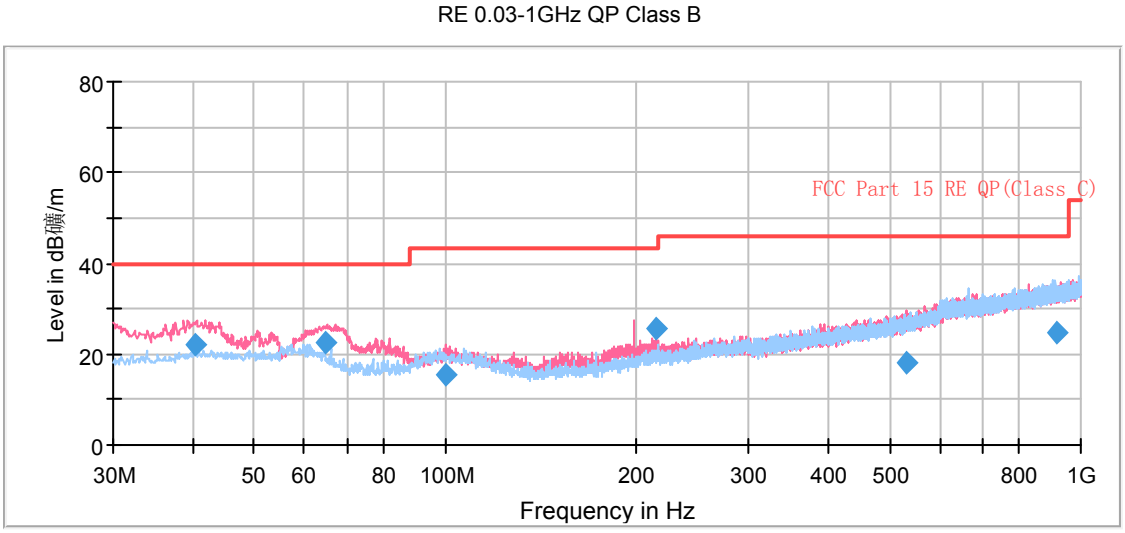
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

The messy code (dBuV/m) including in the following graphs mean dBuv/m.

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



Radiates Emission from 30MHz to 1GHz

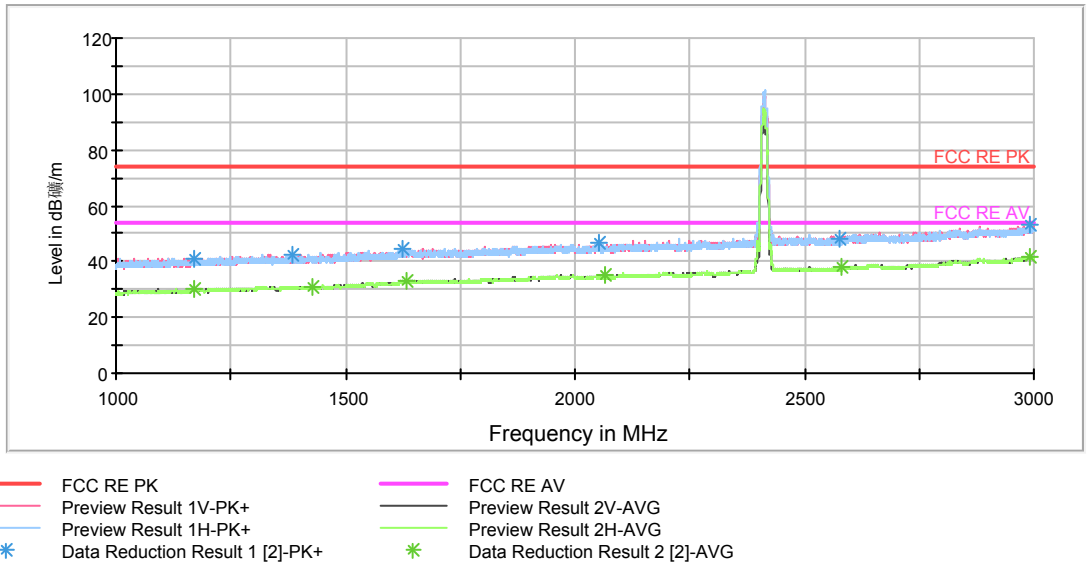
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.348750	22.0	100.0	V	290.0	35.2	13.2	18.0	40.0
64.921250	22.4	100.0	V	101.0	33.0	10.6	17.6	40.0
100.161250	15.5	125.0	V	59.0	28.7	13.2	28.0	43.5
214.501250	25.5	100.0	V	167.0	38.1	12.6	18.0	43.5
532.422500	18.1	118.0	V	282.0	38.7	20.6	27.9	46.0
913.745000	24.8	125.0	H	318.0	50.6	25.8	21.2	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

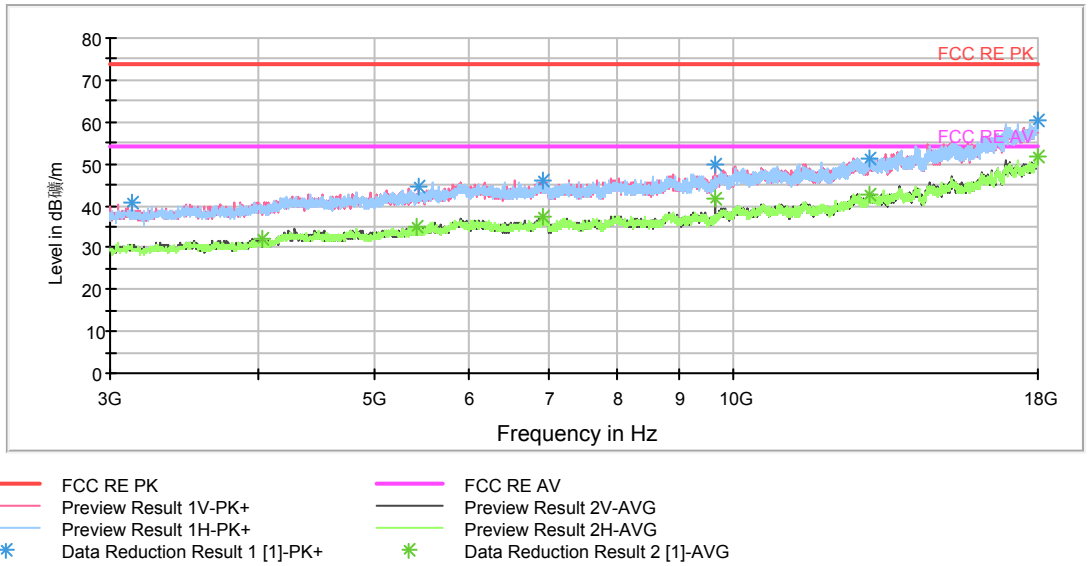
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1169.250000	41.3	100.0	H	190.0	49.4	-8.1	32.7	74
1429.750000	41.5	100.0	V	141.0	48.4	-6.9	32.5	74
1631.500000	43.2	100.0	V	349.0	47.9	-4.7	30.8	74
2063.500000	43.7	100.0	V	338.0	46.8	-3.1	30.3	74
2582.500000	46.9	100.0	V	0.0	47.2	-0.3	27.1	74
2989.750000	50.9	100.0	H	74.0	53.1	2.2	23.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1169.250000	30.3	100.0	H	190.0	38.4	-8.1	23.7	54
1429.750000	31.2	100.0	V	141.0	38.1	-6.9	22.8	54
1631.500000	33.2	100.0	V	349.0	37.9	-4.7	20.8	54
2063.500000	35.2	100.0	V	338.0	38.3	-3.1	18.8	54
2582.500000	37.8	100.0	V	0.0	38.1	-0.3	16.2	54
2989.750000	41.8	100.0	H	74.0	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

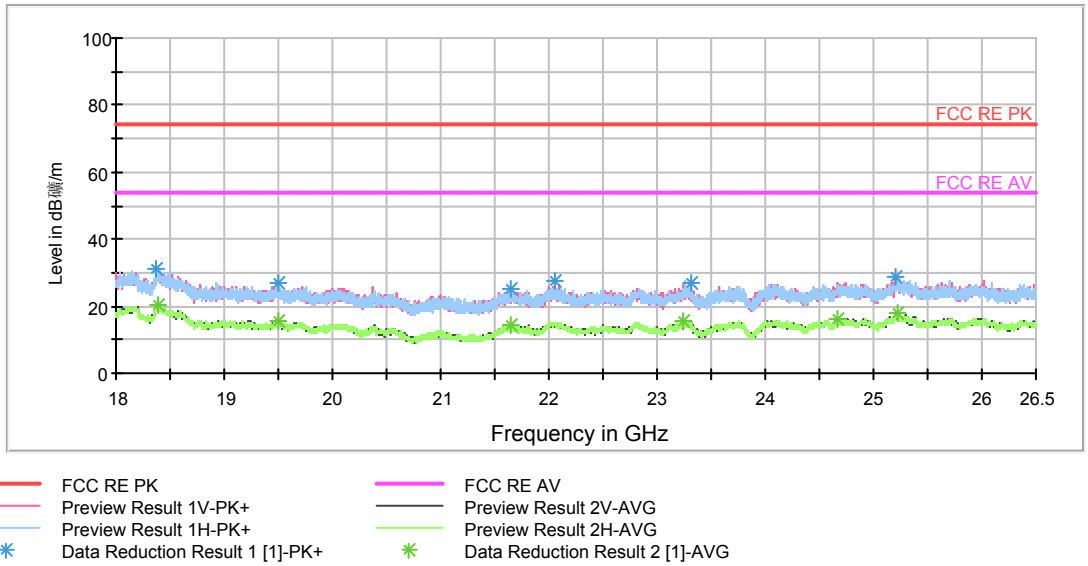
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4027.500000	39.0	100.0	V	300.0	39.6	0.6	35.0	74
5413.125000	41.5	100.0	V	0.0	45.2	3.7	32.5	74
6915.000000	44.0	100.0	H	276.0	50.9	6.9	30.0	74
9648.750000	49.9	100.0	V	10.0	60.4	10.5	24.1	74
13005.000000	49.8	100.0	H	96.0	66.0	16.2	24.2	74
17992.500000	58.9	100.0	H	96.0	84.2	25.3	15.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4027.500000	32.0	100.0	V	300.0	32.6	0.6	22.0	54
5413.125000	34.9	100.0	V	0.0	38.6	3.7	19.1	54
6915.000000	37.2	100.0	H	276.0	44.1	6.9	16.8	54
9648.750000	41.7	100.0	V	10.0	52.2	10.5	12.3	54
13005.000000	42.8	100.0	H	96.0	59.0	16.2	11.2	54
17992.500000	51.7	100.0	H	96.0	77.0	25.3	2.3	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)
18395.250000	29.4	V	0.0	34.3	-4.9	44.6	74
19491.750000	25.2	V	0.0	32.8	-7.6	48.8	74
21651.812500	25.1	H	0.0	34.3	-9.2	48.9	74
23248.750000	26.1	V	0.0	33.6	-7.5	47.9	74
24664.000000	24.1	H	0.0	31.2	-7.1	49.9	74
25222.875000	27.2	H	0.0	33.1	-5.9	46.8	74

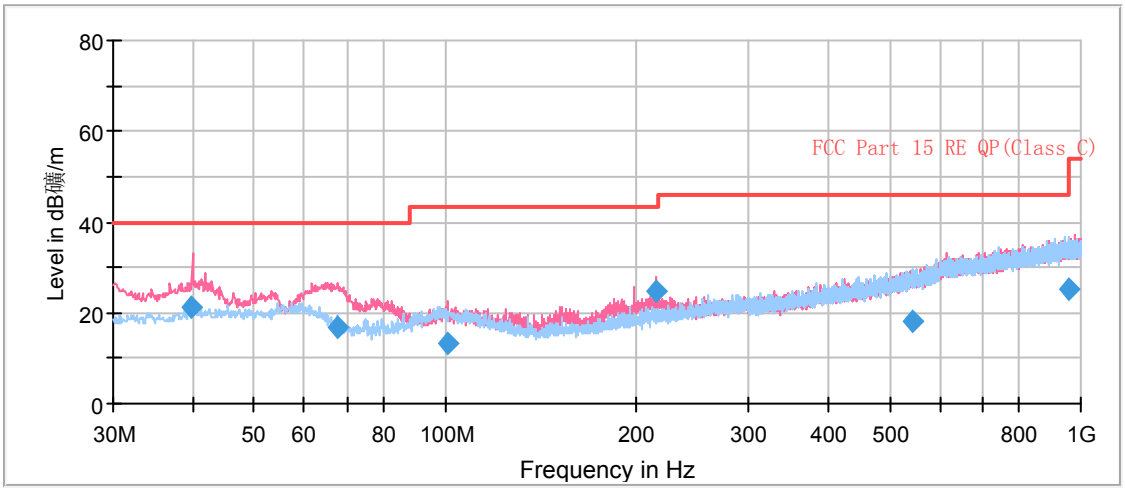
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18395.250000	20.5	V	0.0	25.4	-4.9	33.5	54
19491.750000	15.8	V	0.0	23.4	-7.6	38.2	54
21651.812500	14.3	H	0.0	23.5	-9.2	39.7	54
23248.750000	15.5	V	0.0	23.0	-7.5	38.5	54
24664.000000	16.4	H	0.0	23.5	-7.1	37.6	54
25222.875000	17.9	H	0.0	23.8	-5.9	36.1	54

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

802.11b CH6

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

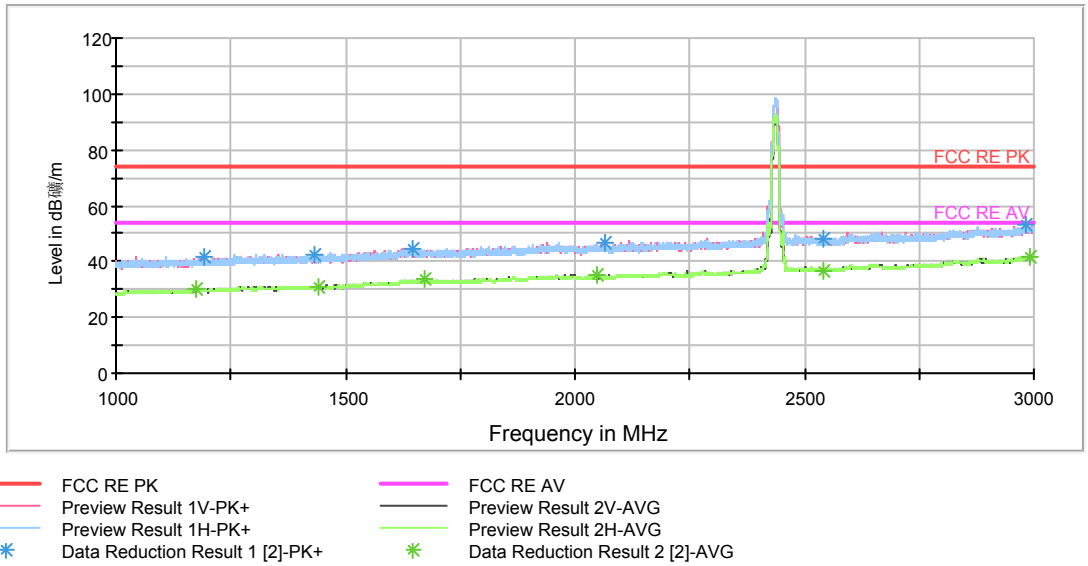
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
39.703750	21.2	100.0	V	190.0	34.3	13.1	18.8	40.0
67.827500	16.8	100.0	V	0.0	26.3	9.5	23.2	40.0
100.651250	13.2	125.0	V	0.0	26.4	13.2	30.3	43.5
214.502500	24.9	100.0	V	352.0	37.5	12.6	18.6	43.5
542.850000	18.3	125.0	H	90.0	39.2	20.9	27.7	46.0
956.670000	25.3	100.0	H	139.0	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

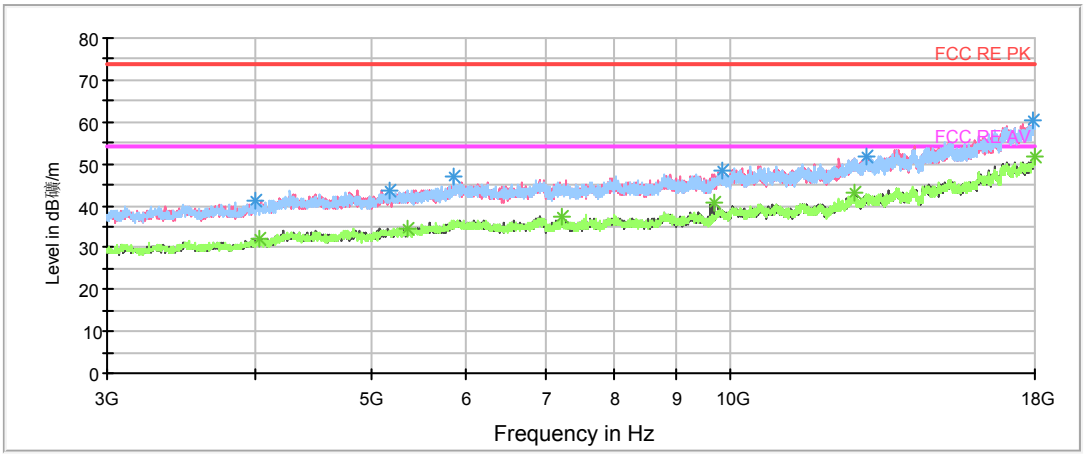
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1172.750000	39.4	100.0	H	34.0	47.5	-8.1	34.6	74
1439.000000	41.4	100.0	H	0.0	48.3	-6.9	32.6	74
1672.000000	43.0	100.0	V	146.0	48.1	-5.1	31.0	74
2050.000000	44.0	100.0	V	264.0	47.2	-3.2	30.0	74
2539.750000	46.3	100.0	V	330.0	46.7	-0.4	27.7	74
2992.000000	50.9	100.0	V	252.0	53.1	2.2	23.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1172.750000	30.1	100.0	H	34.0	38.2	-8.1	23.9	54
1439.000000	31.1	100.0	H	0.0	38.0	-6.9	22.9	54
1672.000000	33.4	100.0	V	146.0	38.5	-5.1	20.6	54
2050.000000	35.0	100.0	V	264.0	38.2	-3.2	19.0	54
2539.750000	36.8	100.0	V	330.0	37.2	-0.4	17.2	54
2992.000000	41.7	100.0	V	252.0	43.9	2.2	12.3	54

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

RE 3-18GHz PK+AV



FCC RE PK
Preview Result 1V-PK+
Preview Result 1H-PK+
Data Reduction Result 1 [1]-PK+
FCC RE AV
Preview Result 2V-AVG
Preview Result 2H-AVG
Data Reduction Result 2 [1]-AVG

Radiates Emission from 3GHz to 18GHz

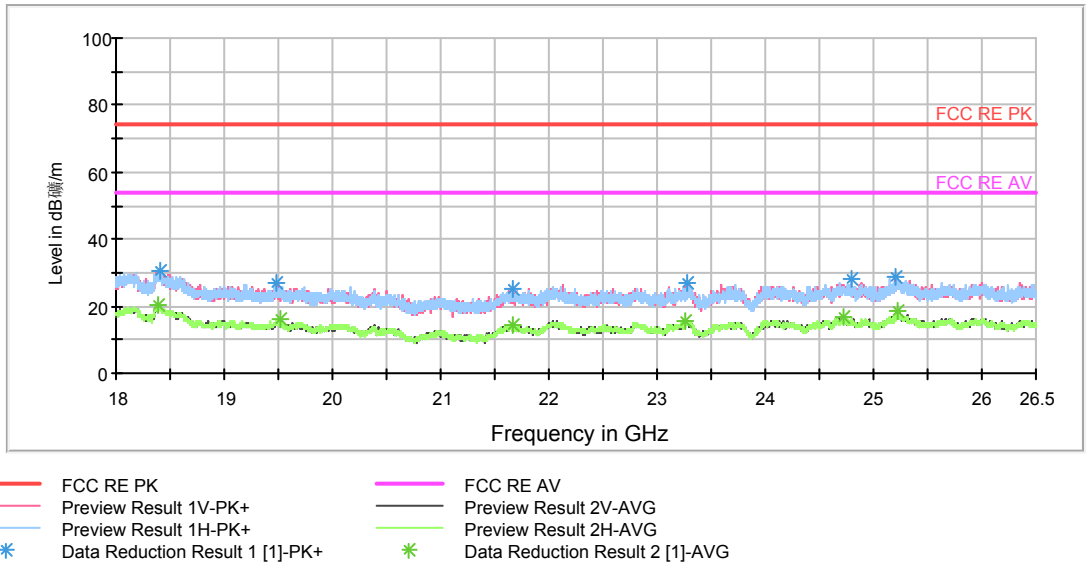
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4023.750000	38.5	100.0	H	63.0	39.1	0.6	35.5	74
5364.375000	42.5	100.0	V	0.0	46.2	3.7	31.5	74
7220.625000	43.4	100.0	H	97.0	52.1	8.7	30.6	74
9699.375000	47.2	100.0	V	352.0	58.2	11.0	26.8	74
12710.625000	49.5	100.0	V	309.0	64.6	15.1	24.5	74
17983.125000	58.8	100.0	H	164.0	84.0	25.2	15.2	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)
4023.750000	32.0	100.0	H	63.0	32.6	0.6	22.0	54
5364.375000	34.7	100.0	V	0.0	38.4	3.7	19.3	54
7220.625000	37.4	100.0	H	97.0	46.1	8.7	16.6	54
9699.375000	40.7	100.0	V	352.0	51.7	11.0	13.3	54
12710.625000	42.9	100.0	V	309.0	58.0	15.1	11.1	54
17983.125000	51.9	100.0	H	164.0	77.1	25.2	2.1	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)
18380.375000	28.2	V	0.0	33.0	-4.8	45.8	74
19510.875000	23.9	V	0.0	31.4	-7.5	50.1	74
21658.187500	23.1	V	0.0	32.3	-9.2	50.9	74
23251.937500	25.3	H	0.0	32.8	-7.5	48.7	74
24727.750000	24.8	H	0.0	31.0	-6.2	49.2	74
25231.375000	27.1	V	0.0	33.0	-5.9	46.9	74

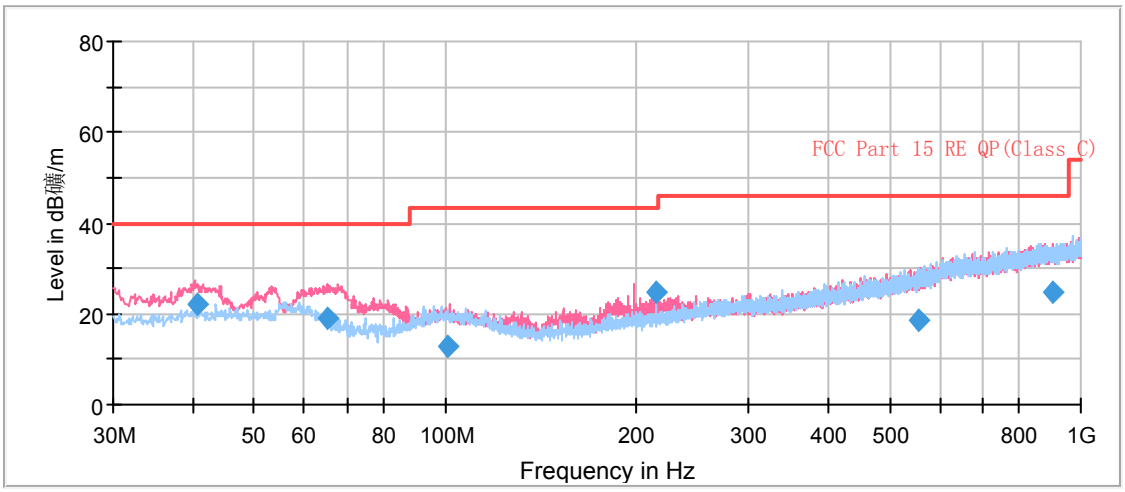
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18380.375000	20.2	V	0.0	25.0	-4.8	33.8	54
19510.875000	15.9	V	0.0	23.4	-7.5	38.1	54
21658.187500	14.5	V	0.0	23.7	-9.2	39.5	54
23251.937500	15.7	H	0.0	23.2	-7.5	38.3	54
24727.750000	16.5	H	0.0	22.7	-6.2	37.5	54
25231.375000	18.5	V	0.0	24.4	-5.9	35.5	54

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

802.11b CH11

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

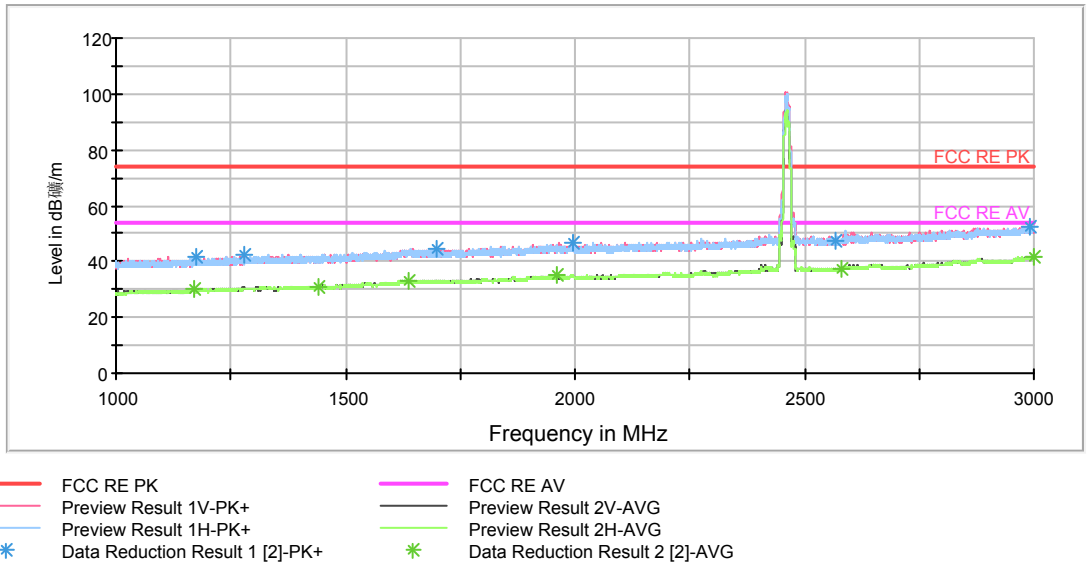
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.666250	22.1	114.0	V	230.0	35.3	13.2	17.9	40.0
65.202500	19.0	100.0	V	230.0	29.5	10.5	21.0	40.0
101.177500	12.6	125.0	V	84.0	25.7	13.1	30.9	43.5
214.502500	24.8	100.0	V	354.0	37.4	12.6	18.7	43.5
556.392500	18.8	125.0	V	0.0	40.0	21.2	27.2	46.0
904.535000	24.7	100.0	V	160.0	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

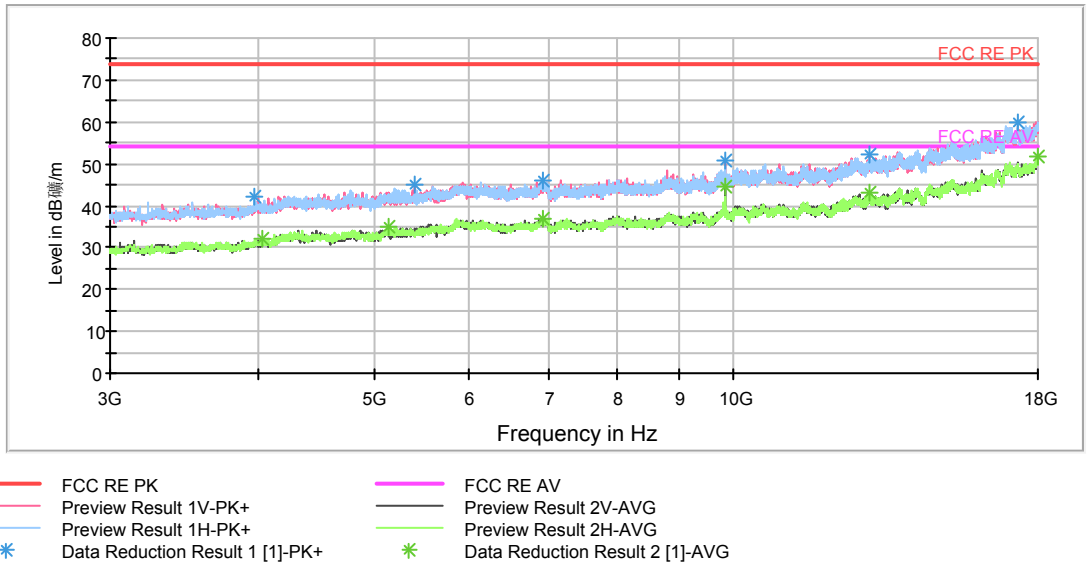
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1169.750000	39.7	100.0	H	50.0	47.8	-8.1	34.3	74
1441.500000	40.8	100.0	H	120.0	47.7	-6.9	33.2	74
1638.500000	43.2	100.0	H	167.0	47.9	-4.7	30.8	74
1960.500000	44.6	100.0	V	287.0	47.8	-3.2	29.4	74
2580.000000	46.6	100.0	V	0.0	47.0	-0.4	27.4	74
2999.000000	51.1	100.0	H	0.0	53.4	2.3	22.9	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1169.750000	30.3	100.0	H	50.0	38.4	-8.1	23.7	54
1441.500000	31.2	100.0	H	120.0	38.1	-6.9	22.8	54
1638.500000	33.3	100.0	H	167.0	38.0	-4.7	20.7	54
1960.500000	35.2	100.0	V	287.0	38.4	-3.2	18.8	54
2580.000000	37.2	100.0	V	0.0	37.6	-0.4	16.8	54
2999.000000	41.8	100.0	H	0.0	44.1	2.3	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

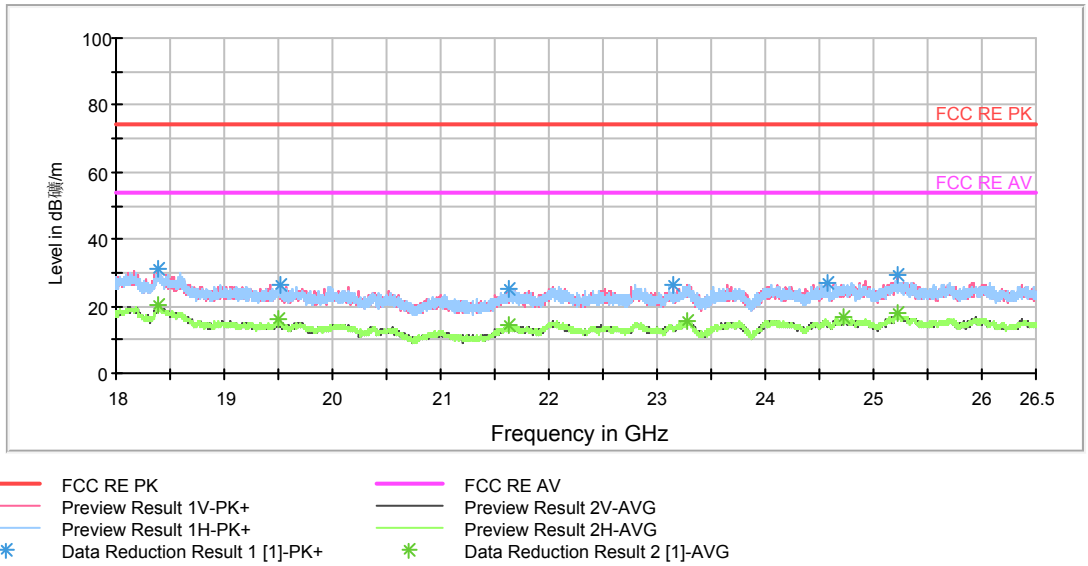
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4031.250000	40.2	100.0	H	61.0	40.8	0.6	33.8	74
5135.625000	42.7	100.0	H	105.0	46.3	3.6	31.3	74
6911.250000	44.5	100.0	H	0.0	51.4	6.9	29.5	74
9847.500000	50.9	100.0	V	334.0	62.7	11.8	23.1	74
12980.625000	50.5	100.0	V	131.0	66.7	16.2	23.5	74
17990.625000	59.7	100.0	H	275.0	85.0	25.3	14.3	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)
4031.250000	32.1	100.0	H	61.0	32.7	0.6	21.9	54
5135.625000	34.8	100.0	H	105.0	38.4	3.6	19.2	54
6911.250000	37.1	100.0	H	0.0	44.0	6.9	16.9	54
9847.500000	44.5	100.0	V	334.0	56.3	11.8	9.5	54
12980.625000	42.9	100.0	V	131.0	59.1	16.2	11.1	54
17990.625000	51.6	100.0	H	275.0	76.9	25.3	2.4	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)
18385.687500	29.8	H	0.0	34.6	-4.8	44.2	74
19500.250000	25.2	V	0.0	32.7	-7.5	48.8	74
21634.812500	24.0	H	0.0	33.1	-9.1	50.0	74
23274.250000	25.6	V	0.0	32.8	-7.2	48.4	74
24728.812500	26.6	H	0.0	32.8	-6.2	47.4	74
25220.750000	26.0	V	0.0	32.0	-6.0	48.0	74

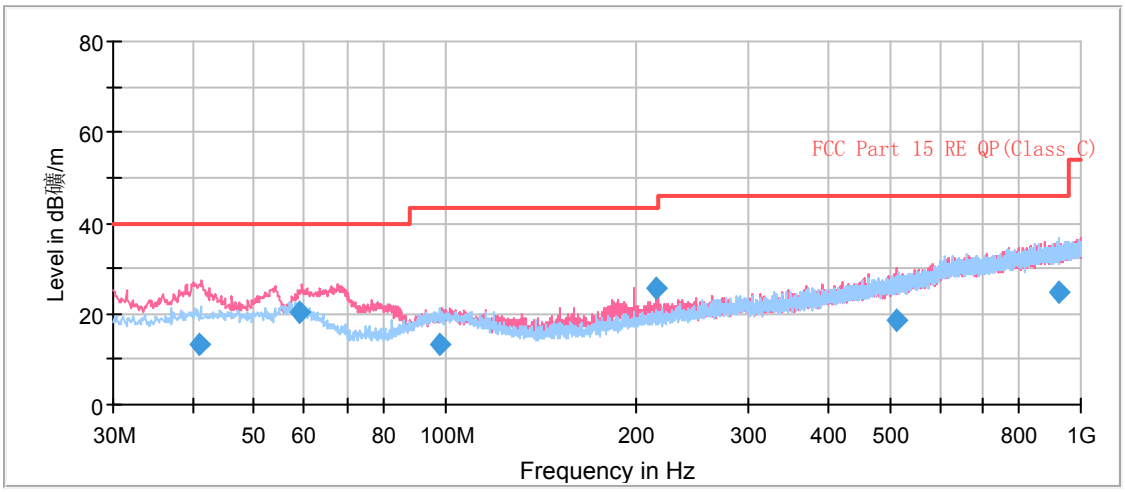
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18385.687500	20.5	H	0.0	25.3	-4.8	33.5	54
19500.250000	16.1	V	0.0	23.6	-7.5	37.9	54
21634.812500	14.4	H	0.0	23.5	-9.1	39.6	54
23274.250000	15.5	V	0.0	22.7	-7.2	38.5	54
24728.812500	16.7	H	0.0	22.9	-6.2	37.3	54
25220.750000	18.2	V	0.0	24.2	-6.0	35.8	54

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

802.11g CH1

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

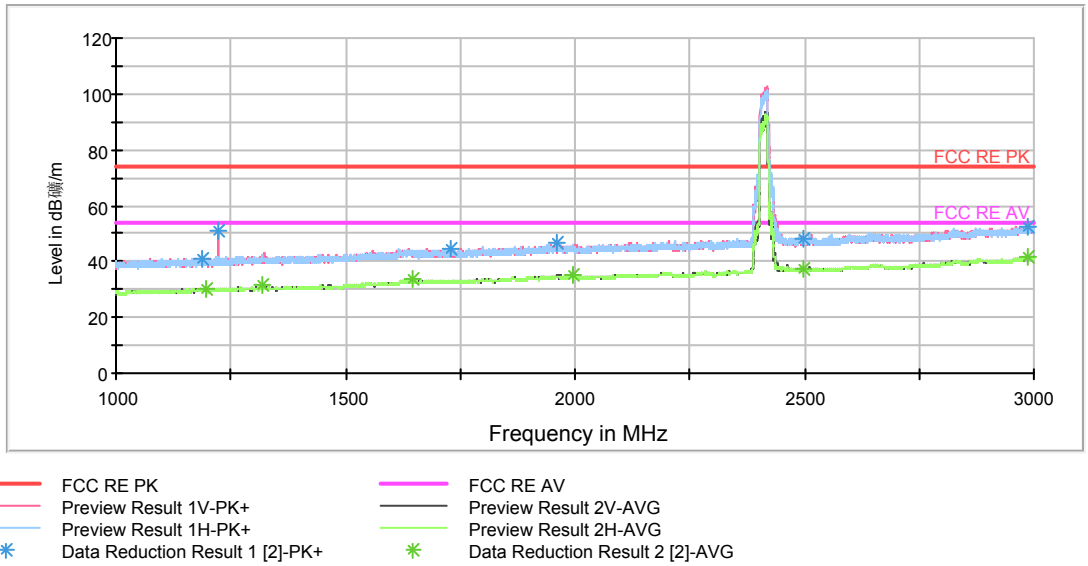
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.957500	13.2	100.0	V	205.0	26.4	13.2	26.8	40.0
59.103750	20.2	113.0	V	265.0	32.7	12.5	19.8	40.0
98.102500	13.2	100.0	H	357.0	26.2	13.0	30.3	43.5
214.501250	25.6	100.0	V	202.0	38.2	12.6	17.9	43.5
511.520000	18.6	125.0	V	0.0	38.8	20.2	27.4	46.0
920.622500	24.8	125.0	H	12.0	50.6	25.8	21.2	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

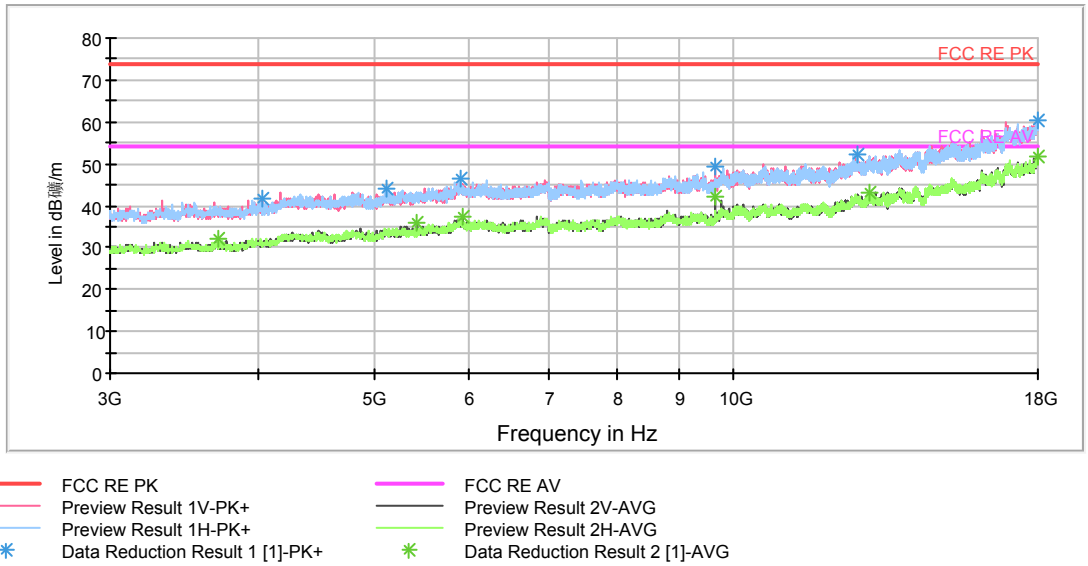
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.500000	39.1	100.0	H	203.0	47.3	-8.2	34.9	74
1320.000000	41.5	100.0	V	248.0	48.8	-7.3	32.5	74
1645.500000	43.0	100.0	V	348.0	47.9	-4.9	31.0	74
1996.500000	44.1	100.0	V	28.0	47.4	-3.3	29.9	74
2499.000000	47.5	100.0	V	0.0	47.6	-0.1	26.5	74
2988.250000	51.3	100.0	H	8.0	53.5	-2.2	22.7	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)
1195.500000	30.2	100.0	H	203.0	38.4	-8.2	23.8	54
1320.000000	31.3	100.0	V	248.0	38.6	-7.3	22.7	54
1645.500000	33.5	100.0	V	348.0	38.4	-4.9	20.5	54
1996.500000	35.0	100.0	V	28.0	38.3	-3.3	19.0	54
2499.000000	37.1	100.0	V	0.0	37.2	-0.1	16.9	54
2988.250000	41.7	100.0	H	8.0	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

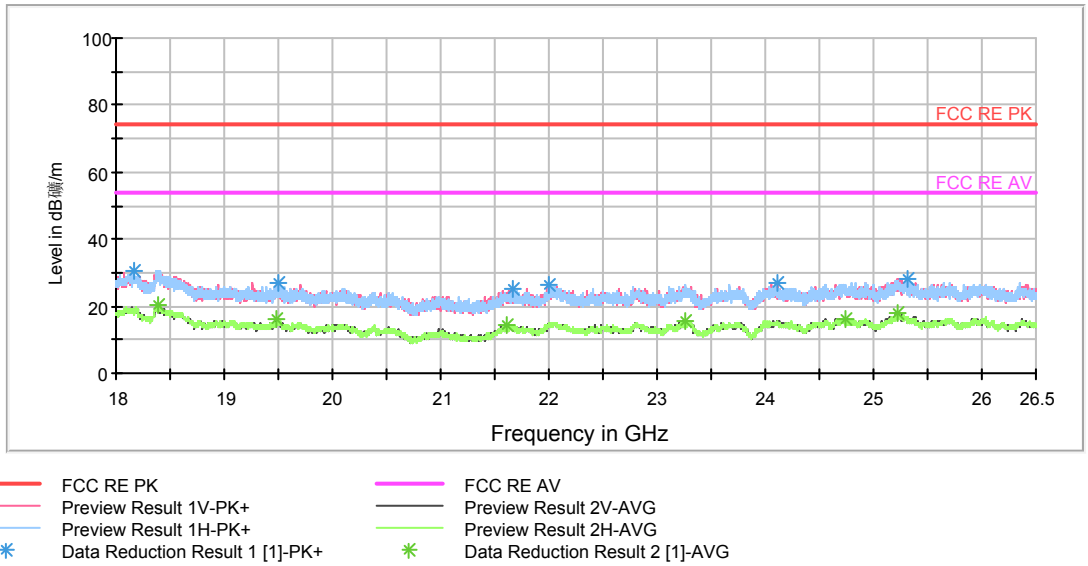
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3691.875000	39.0	100.0	H	255.0	39.3	-0.3	35.0	74
5433.750000	41.5	100.0	V	166.0	45.3	-3.8	32.5	74
5919.375000	45.0	100.0	V	282.0	51.1	-6.1	29.0	74
9648.750000	49.5	100.0	V	10.0	60.0	-10.5	24.5	74
12982.500000	50.8	100.0	V	293.0	67.0	-16.2	23.2	74
17996.250000	58.7	100.0	H	48.0	84.1	-25.4	15.3	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)
3691.875000	32.2	100.0	H	255.0	32.5	-0.3	21.8	54
5433.750000	35.9	100.0	V	166.0	39.7	-3.8	18.1	54
5919.375000	37.4	100.0	V	282.0	43.5	-6.1	16.6	54
9648.750000	42.1	100.0	V	10.0	52.6	-10.5	11.9	54
12982.500000	42.9	100.0	V	293.0	59.1	-16.2	11.1	54
17996.250000	51.9	100.0	H	48.0	77.3	-25.4	2.1	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)
18393.125000	28.8	V	0.0	33.7	-4.9	45.2	74
19486.437500	23.6	V	0.0	31.3	-7.7	50.4	74
21617.812500	22.8	H	0.0	31.8	-9.0	51.2	74
23265.750000	24.0	H	0.0	31.3	-7.3	50.0	74
24738.375000	24.3	V	0.0	30.7	-6.4	49.7	74
25214.375000	24.9	V	0.0	31.0	-6.1	49.1	74

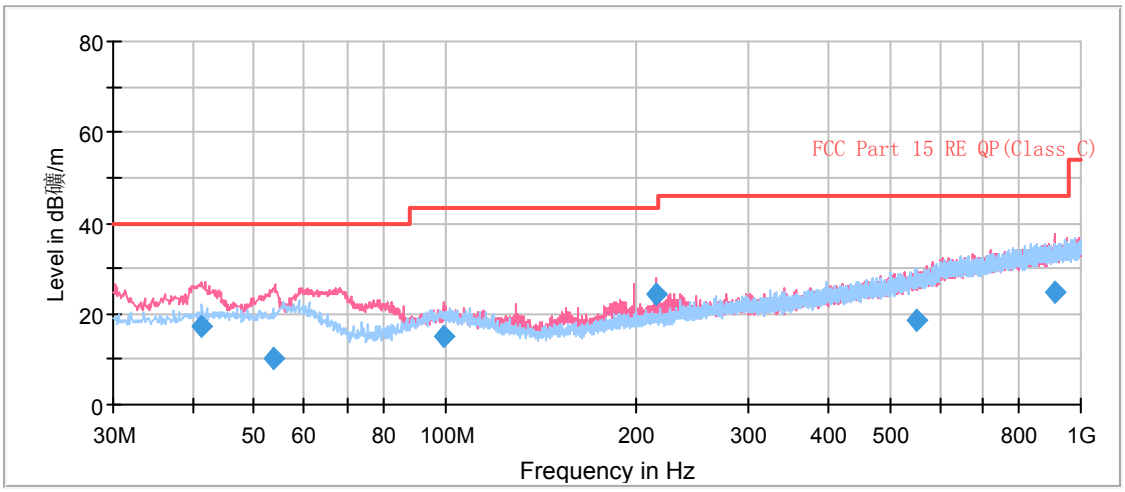
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18393.125000	20.4	V	0.0	25.3	-4.9	33.6	54
19486.437500	15.9	V	0.0	23.6	-7.7	38.1	54
21617.812500	14.6	H	0.0	23.6	-9.0	39.4	54
23265.750000	15.6	H	0.0	22.9	-7.3	38.4	54
24738.375000	16.4	V	0.0	22.8	-6.4	37.6	54
25214.375000	17.9	V	0.0	24.0	-6.1	36.1	54

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

802.11g CH6

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

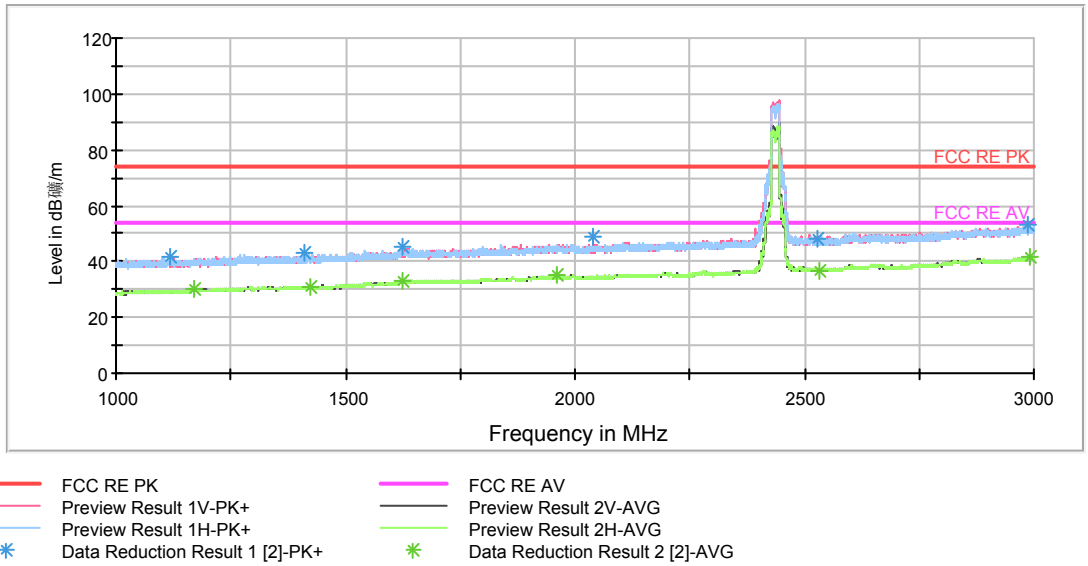
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
41.402500	17.2	113.0	V	251.0	30.4	-13.2	22.8	40.0
53.686250	10.2	100.0	V	152.0	23.0	-12.8	29.8	40.0
99.633750	14.9	125.0	V	242.0	28.1	-13.2	28.6	43.5
214.502500	24.4	100.0	V	324.0	37.0	-12.6	19.1	43.5
550.850000	18.5	100.0	H	254.0	39.5	-21.0	27.5	46.0
910.840000	24.7	125.0	V	172.0	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

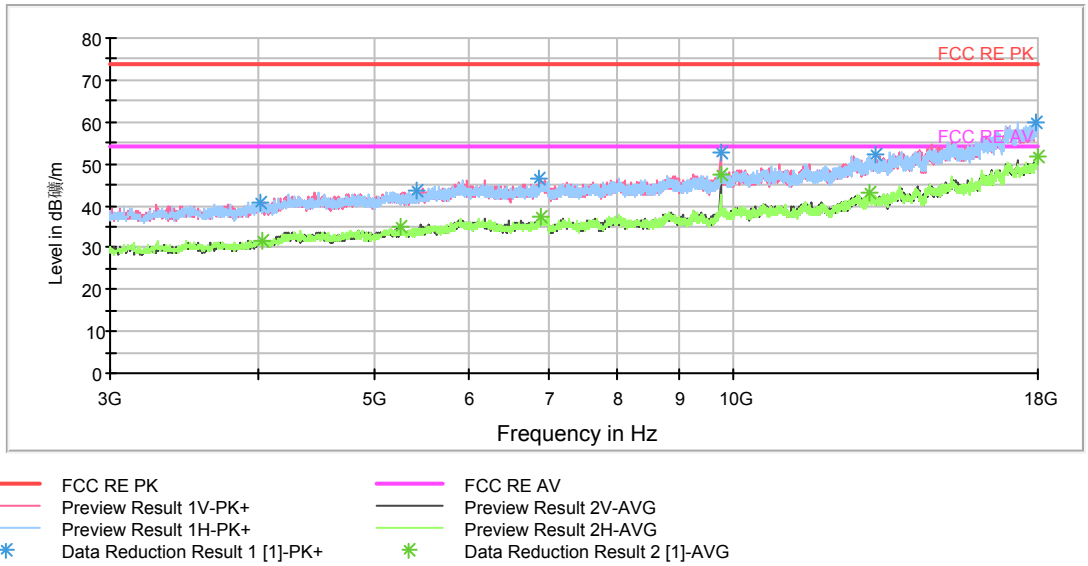
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1170.500000	39.3	100.0	H	306.0	47.4	-8.1	34.7	74
1422.750000	40.5	100.0	H	52.0	47.4	-6.9	33.5	74
1622.750000	42.8	100.0	H	29.0	47.6	-4.8	31.2	74
1959.500000	45.7	100.0	H	98.0	48.9	-3.2	28.3	74
2992.250000	51.0	100.0	V	341.0	53.2	-2.2	23.0	74
2532.500000	46.6	100.0	V	259.0	47.0	-0.4	27.4	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)
1170.500000	30.0	100.0	H	306.0	38.1	-8.1	24.0	54
1422.750000	31.2	100.0	H	52.0	38.1	-6.9	22.8	54
1622.750000	33.3	100.0	H	29.0	38.1	-4.8	20.7	54
1959.500000	34.9	100.0	H	98.0	38.1	-3.2	19.1	54
2992.250000	41.8	100.0	V	341.0	44.0	-2.2	12.2	54
2532.500000	37.0	100.0	V	259.0	37.4	-0.4	17.0	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

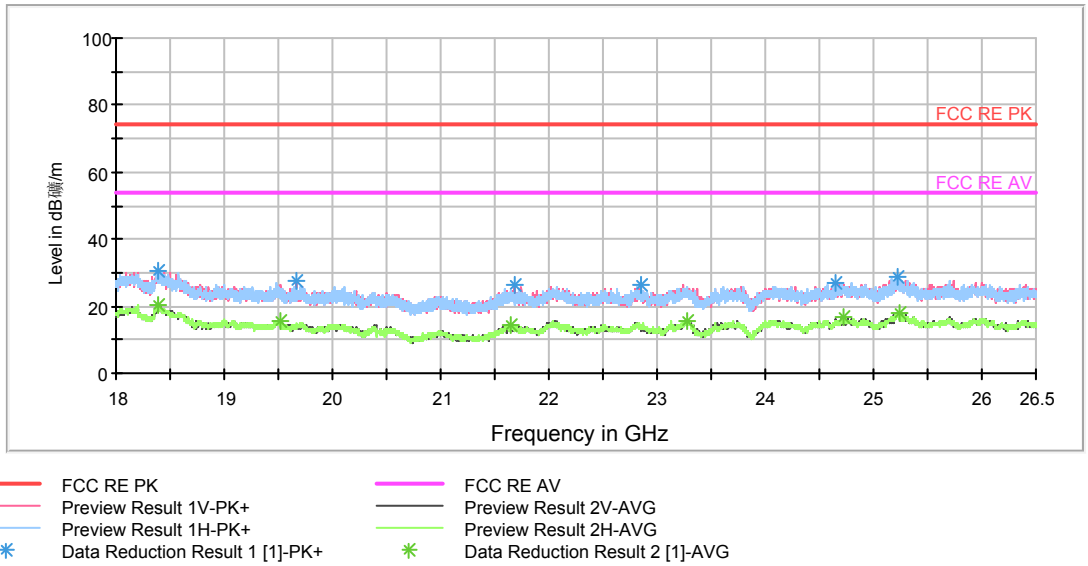
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4027.500000	39.4	100.0	H	119.0	40.0	-0.6	34.6	74
5263.125000	41.7	100.0	H	74.0	45.4	-3.7	32.3	74
6894.375000	44.6	100.0	V	143.0	51.5	-6.9	29.4	74
9748.125000	52.5	100.0	V	10.0	64.1	-11.6	21.5	74
13006.875000	48.9	100.0	V	222.0	65.1	-16.2	25.1	74
17979.375000	58.8	100.0	V	200.0	84.0	-25.2	15.2	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)
4027.500000	31.9	100.0	H	119.0	32.5	-0.6	22.1	54
5263.125000	34.8	100.0	H	74.0	38.5	-3.7	19.2	54
6894.375000	37.4	100.0	V	143.0	44.3	-6.9	16.6	54
9748.125000	47.5	100.0	V	10.0	59.1	-11.6	6.5	54
13006.875000	43.0	100.0	V	222.0	59.2	-16.2	11.0	54
17979.375000	51.7	100.0	V	200.0	76.9	-25.2	2.3	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)
18381.437500	28.6	V	0.0	33.4	-4.8	45.4	74
19517.250000	22.7	H	0.0	30.1	-7.4	51.3	74
21652.875000	22.4	H	0.0	31.6	-9.2	51.6	74
23278.500000	25.7	H	0.0	32.9	-7.2	48.3	74
24728.812500	26.0	V	0.0	32.2	-6.2	48.0	74
25232.437500	26.8	H	0.0	32.7	-5.9	47.2	74

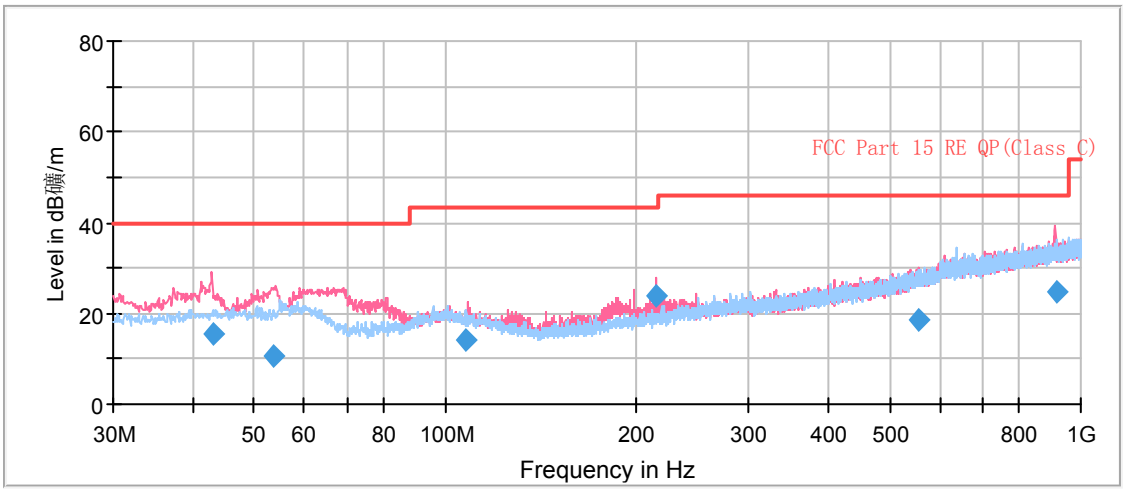
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18381.437500	20.5	V	0.0	25.3	-4.8	33.5	54
19517.250000	15.5	H	0.0	22.9	-7.4	38.5	54
21652.875000	14.5	H	0.0	23.7	-9.2	39.5	54
23278.500000	15.6	H	0.0	22.8	-7.2	38.4	54
24728.812500	16.7	V	0.0	22.9	-6.2	37.3	54
25232.437500	18.1	H	0.0	24.0	-5.9	35.9	54

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

802.11g CH11

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

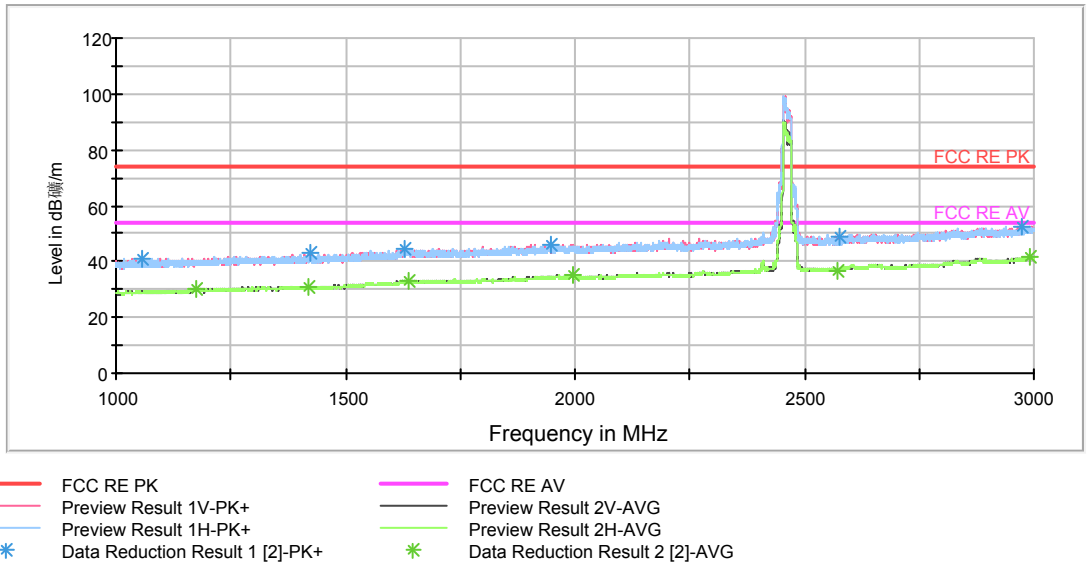
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
43.092500	15.4	100.0	V	22.0	28.5	-13.1	24.6	40.0
53.568750	10.6	100.0	V	310.0	23.4	-12.8	29.4	40.0
108.008750	14.1	125.0	V	130.0	26.6	-12.5	29.4	43.5
214.502500	24.0	100.0	V	0.0	36.6	-12.6	19.5	43.5
556.150000	18.8	114.0	V	227.0	40.0	-21.2	27.2	46.0
913.505000	24.8	100.0	V	45.0	50.6	-25.8	21.2	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

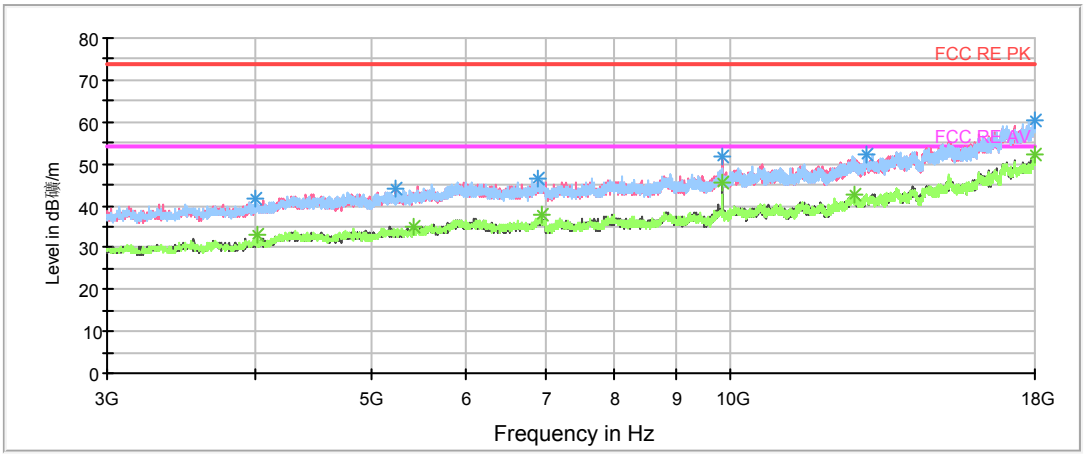
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1172.750000	39.1	100.0	H	20.0	47.2	-8.1	34.9	74
1420.250000	41.7	100.0	H	8.0	48.6	-6.9	32.3	74
1638.500000	43.8	100.0	H	252.0	48.5	-4.7	30.2	74
1995.250000	45.9	100.0	V	297.0	49.1	-3.2	28.1	74
2573.000000	48.1	100.0	V	356.0	48.7	-0.6	25.9	74
2991.000000	51.4	100.0	V	315.0	53.6	-2.2	22.6	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)
1172.750000	30.0	100.0	H	20.0	38.1	-8.1	24.0	54
1420.250000	31.2	100.0	H	8.0	38.1	-6.9	22.8	54
1638.500000	33.4	100.0	H	252.0	38.1	-4.7	20.6	54
1995.250000	35.3	100.0	V	297.0	38.5	-3.2	18.7	54
2573.000000	36.5	100.0	V	356.0	37.1	-0.6	17.5	54
2991.000000	41.7	100.0	V	315.0	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

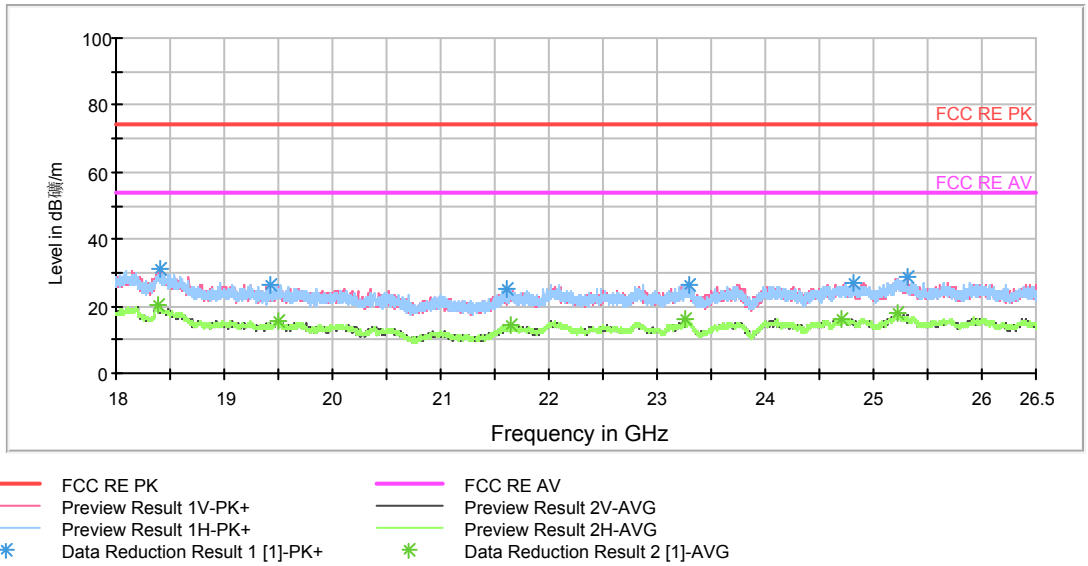
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4016.250000	39.0	100.0	H	0.0	39.5	0.5	35.0	74
5431.875000	41.7	100.0	V	281.0	45.5	3.8	32.3	74
6937.500000	43.4	100.0	H	94.0	50.2	6.8	30.6	74
9847.500000	51.7	100.0	V	11.0	63.5	11.8	22.3	74
12710.625000	49.7	100.0	V	26.0	64.8	15.1	24.3	74
17971.875000	59.3	100.0	V	292.0	84.4	25.1	14.7	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)
4016.250000	32.9	100.0	H	0.0	33.4	0.5	21.1	54
5431.875000	34.9	100.0	V	281.0	38.7	3.8	19.1	54
6937.500000	37.6	100.0	H	94.0	44.4	6.8	16.4	54
9847.500000	45.5	100.0	V	11.0	57.3	11.8	8.5	54
12710.625000	42.8	100.0	V	26.0	57.9	15.1	11.2	54
17971.875000	52.3	100.0	V	292.0	77.4	25.1	1.7	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	28.9	H	0.0	33.8	-4.9	45.1	74
19497.062500	23.6	V	0.0	31.1	-7.5	50.4	74
21653.937500	23.0	V	0.0	32.2	-9.2	51.0	74
23267.875000	23.8	H	0.0	31.1	-7.3	50.2	74
24702.250000	25.5	H	0.0	32.2	-6.7	48.5	74
25227.125000	27.0	V	0.0	32.9	-5.9	47.0	74

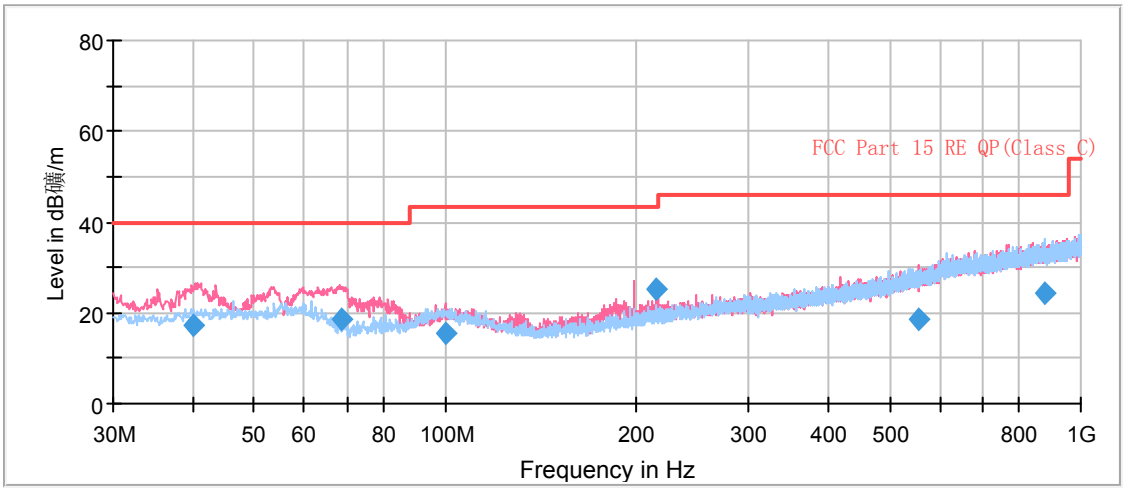
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18388.875000	20.3	H	0.0	25.2	-4.9	33.7	54
19497.062500	15.7	V	0.0	23.2	-7.5	38.3	54
21653.937500	14.3	V	0.0	23.5	-9.2	39.7	54
23267.875000	15.9	H	0.0	23.2	-7.3	38.1	54
24702.250000	16.4	H	0.0	23.1	-6.7	37.6	54
25227.125000	18.1	V	0.0	24.0	-5.9	35.9	54

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

802.11n (HT20) CH1

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

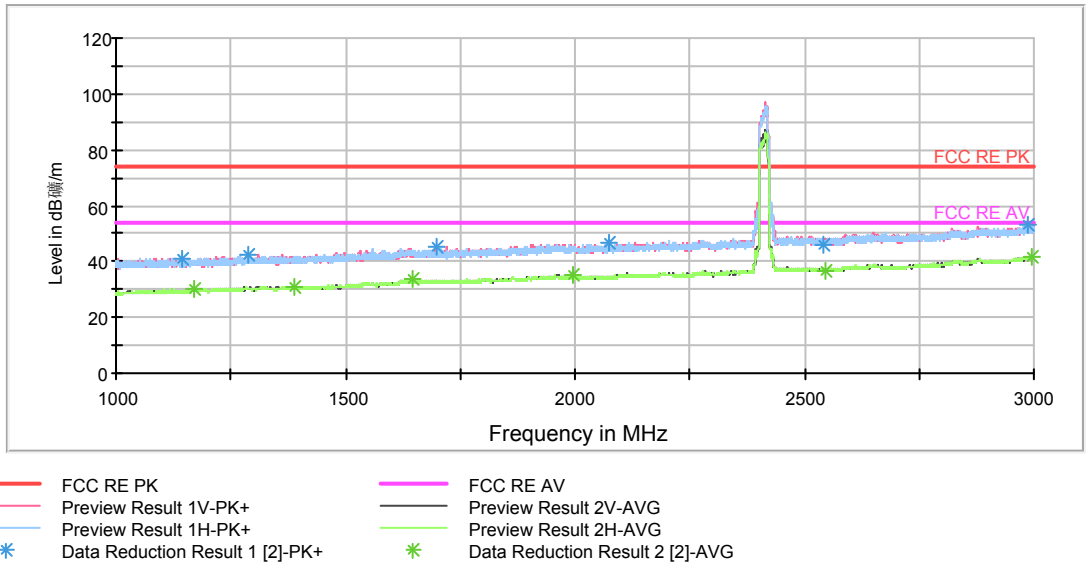
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.231250	17.4	100.0	V	142.0	30.6	-13.2	22.6	40.0
68.592500	18.5	100.0	V	110.0	27.6	-9.1	21.5	40.0
100.160000	15.5	114.0	V	103.0	28.7	-13.2	28.0	43.5
214.502500	25.1	100.0	V	93.0	37.7	-12.6	18.4	43.5
555.653750	18.7	100.0	V	0.0	39.9	-21.2	27.3	46.0
877.097500	24.5	100.0	H	264.0	49.8	-25.3	21.5	46.0

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

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

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

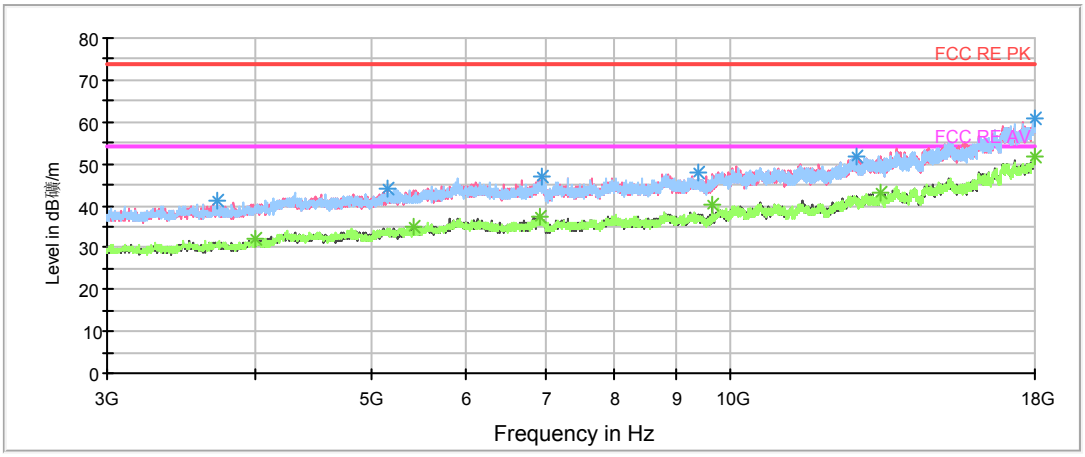
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1171.500000	39.0	100.0	V	350.0	47.1	-8.1	35.0	74
1387.500000	41.4	100.0	H	120.0	48.4	-7.0	32.6	74
1646.250000	43.5	100.0	H	20.0	48.4	-4.9	30.5	74
1995.000000	44.8	100.0	V	0.0	48.0	-3.2	29.2	74
2547.000000	46.5	100.0	V	0.0	46.9	-0.4	27.5	74
2997.500000	52.7	100.0	H	190.0	55.0	-2.3	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)
1171.500000	30.2	100.0	V	350.0	38.3	-8.1	23.8	54
1387.500000	31.0	100.0	H	120.0	38.0	-7.0	23.0	54
1646.250000	33.5	100.0	H	20.0	38.4	-4.9	20.5	54
1995.000000	35.0	100.0	V	0.0	38.2	-3.2	19.0	54
2547.000000	36.7	100.0	V	0.0	37.1	-0.4	17.3	54
2997.500000	41.9	100.0	H	190.0	44.2	-2.3	12.1	54

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

RE 3-18GHz PK+AV



FCC RE PK
Preview Result 1V-PK+
Preview Result 1H-PK+
Data Reduction Result 1 [1]-PK+
FCC RE AV
Preview Result 2V-AVG
Preview Result 2H-AVG
Data Reduction Result 2 [1]-AVG

Radiates Emission from 3GHz to 18GHz

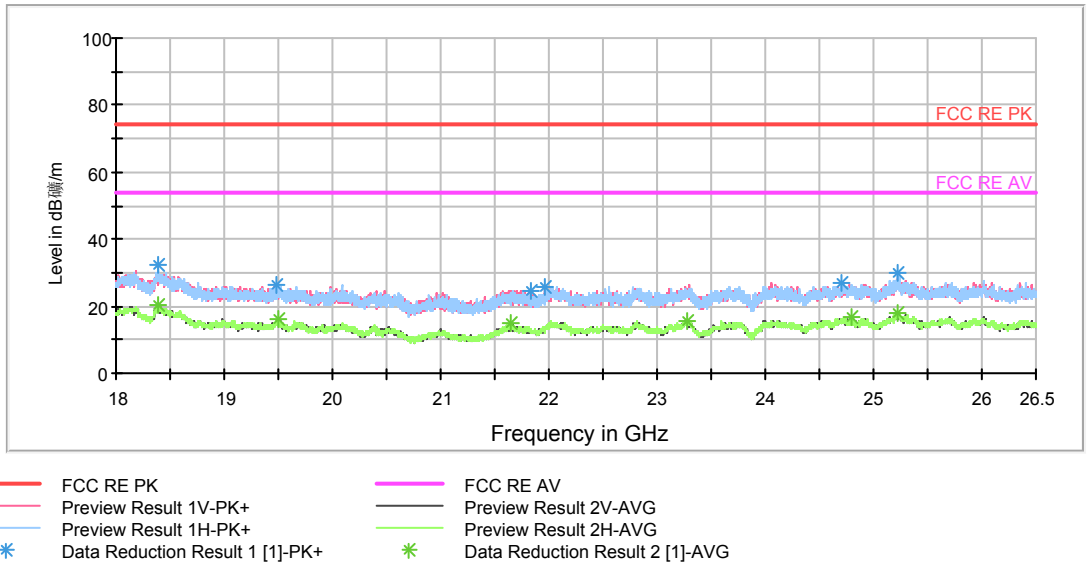
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4001.250000	39.7	100.0	H	59.0	40.2	-0.5	34.3	74
5422.500000	43.6	100.0	V	176.0	47.4	-3.8	30.4	74
6913.125000	45.5	100.0	H	13.0	52.4	-6.9	28.5	74
9648.750000	47.4	100.0	V	25.0	57.9	-10.5	26.6	74
13344.375000	49.6	100.0	V	355.0	65.3	-15.7	24.4	74
17971.875000	58.7	100.0	V	120.0	83.8	-25.1	15.3	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)
4001.250000	32.2	100.0	H	59.0	32.7	-0.5	21.8	54
5422.500000	34.8	100.0	V	176.0	38.6	-3.8	19.2	54
6913.125000	37.6	100.0	H	13.0	44.5	-6.9	16.4	54
9648.750000	40.4	100.0	V	25.0	50.9	-10.5	13.6	54
13344.375000	42.9	100.0	V	355.0	58.6	-15.7	11.1	54
17971.875000	51.7	100.0	V	120.0	76.8	-25.1	2.3	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)
18381.437500	30.0	H	0.0	34.8	-4.8	44.0	74
19492.812500	25.1	V	0.0	32.7	-7.6	48.9	74
21644.375000	22.5	H	0.0	31.6	-9.1	51.5	74
23277.437500	24.0	H	0.0	31.2	-7.2	50.0	74
24800.000000	25.5	H	0.0	32.1	-6.6	48.5	74
25223.937500	27.9	V	0.0	33.8	-5.9	46.1	74

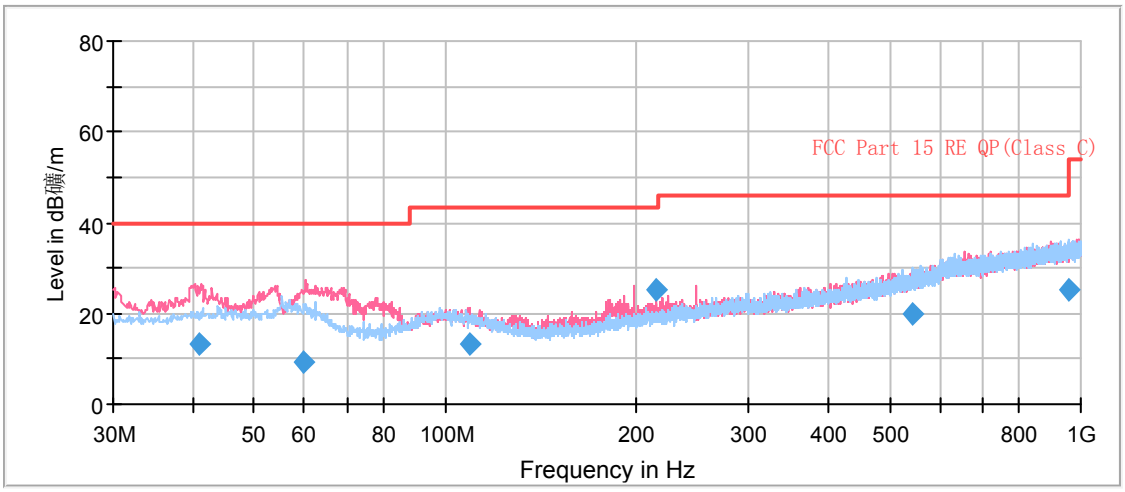
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18381.437500	20.2	H	0.0	25.0	-4.8	33.8	54
19492.812500	15.9	V	0.0	23.5	-7.6	38.1	54
21644.375000	14.7	H	0.0	23.8	-9.1	39.3	54
23277.437500	15.6	H	0.0	22.8	-7.2	38.4	54
24800.000000	16.6	H	0.0	23.2	-6.6	37.4	54
25223.937500	18.2	V	0.0	24.1	-5.9	35.8	54

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

802.11n (HT20) CH6

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

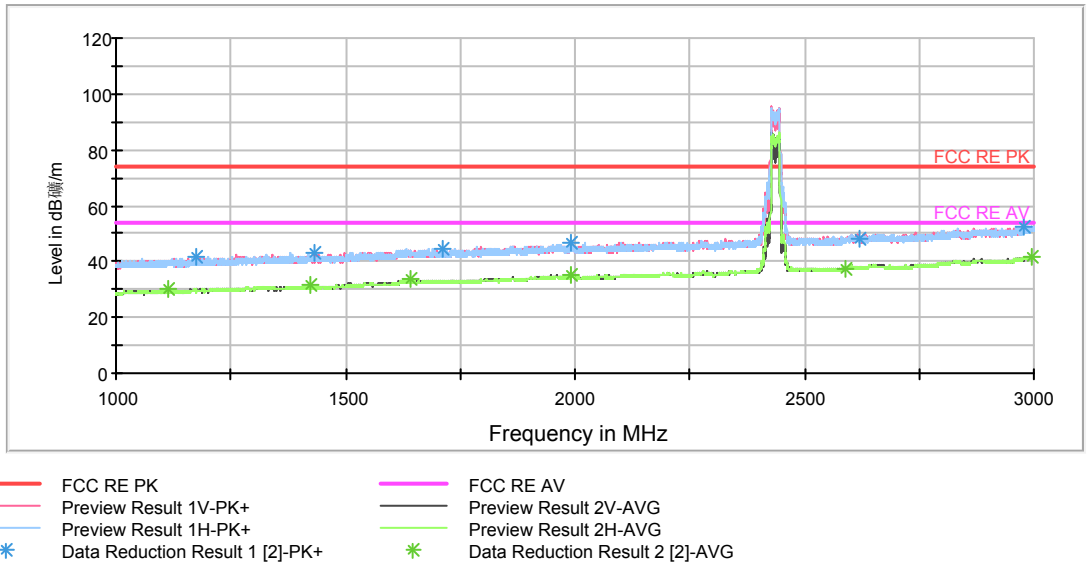
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.906250	13.3	100.0	V	172.0	26.5	-13.2	26.7	40.0
59.831250	9.4	114.0	V	194.0	21.9	-12.5	30.6	40.0
109.372500	13.2	125.0	V	0.0	25.6	-12.4	30.3	43.5
214.502500	25.0	100.0	V	152.0	37.6	-12.6	18.5	43.5
544.505000	19.9	125.0	H	192.0	40.8	-20.9	26.1	46.0
957.077500	25.4	100.0	H	109.0	51.5	-26.1	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



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

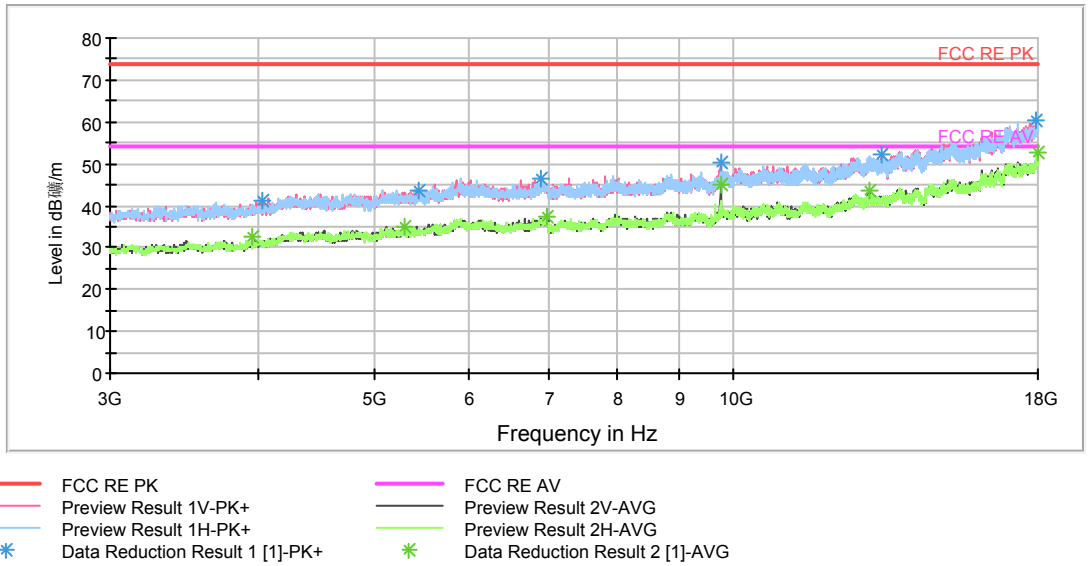
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1113.500000	39.6	100.0	V	314.0	48.2	-8.6	34.4	74
1422.750000	40.8	100.0	V	113.0	47.7	-6.9	33.2	74
1639.750000	43.4	100.0	V	302.0	48.1	-4.7	30.6	74
1993.000000	44.8	100.0	V	0.0	48.1	-3.3	29.2	74
2589.500000	47.7	100.0	V	296.0	47.7	-0.0	26.3	74
2995.750000	51.7	100.0	V	155.0	54.0	-2.3	22.3	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)
1113.500000	30.2	100.0	V	314.0	38.8	-8.6	23.8	54
1422.750000	31.4	100.0	V	113.0	38.3	-6.9	22.6	54
1639.750000	33.6	100.0	V	302.0	38.3	-4.7	20.4	54
1993.000000	35.2	100.0	V	0.0	38.5	-3.3	18.8	54
2589.500000	37.4	100.0	V	296.0	37.4	-0.0	16.6	54
2995.750000	41.6	100.0	V	155.0	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

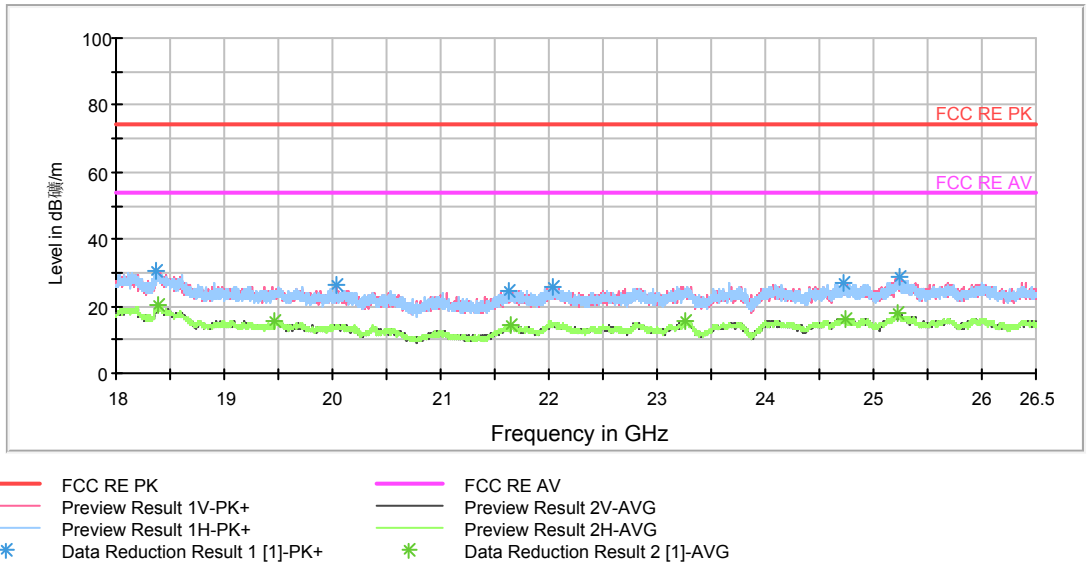
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3956.250000	38.6	100.0	H	179.0	38.8	-0.2	35.4	74
5293.125000	41.9	100.0	H	56.0	45.7	-3.8	32.1	74
6967.500000	43.7	100.0	H	90.0	50.3	-6.6	30.3	74
9748.125000	50.2	100.0	V	11.0	61.8	-11.6	23.8	74
13001.250000	49.6	100.0	V	0.0	65.8	-16.2	24.4	74
17996.250000	59.2	100.0	V	11.0	84.6	-25.4	14.8	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)
3956.250000	32.5	100.0	H	179.0	32.7	-0.2	21.5	54
5293.125000	35.0	100.0	H	56.0	38.8	-3.8	19.0	54
6967.500000	37.4	100.0	H	90.0	44.0	-6.6	16.6	54
9748.125000	45.2	100.0	V	11.0	56.8	-11.6	8.8	54
13001.250000	43.5	100.0	V	0.0	59.7	-16.2	10.5	54
17996.250000	52.6	100.0	V	11.0	78.0	-25.4	1.4	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)
18391.000000	28.0	H	0.0	32.9	-4.9	46.0	74
19471.562500	23.8	H	0.0	31.8	-8.0	50.2	74
21642.250000	24.0	H	0.0	33.1	-9.1	50.0	74
23262.562500	24.0	V	0.0	31.3	-7.3	50.0	74
24733.062500	24.9	H	0.0	31.2	-6.3	49.1	74
25226.062500	27.4	V	0.0	33.3	-5.9	46.6	74

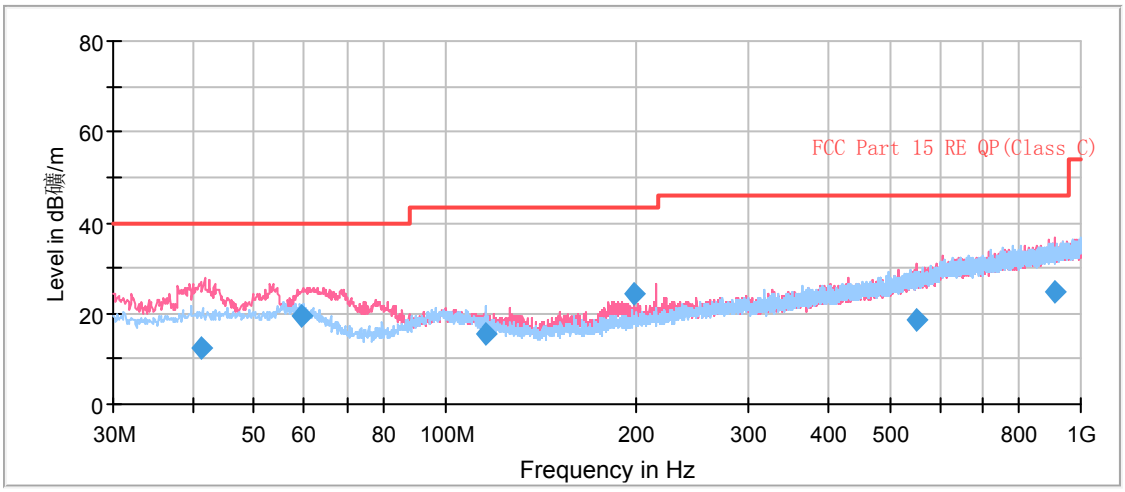
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18391.000000	20.1	H	0.0	25.0	-4.9	33.9	54
19471.562500	15.5	H	0.0	23.5	-8.0	38.5	54
21642.250000	14.6	H	0.0	23.7	-9.1	39.4	54
23262.562500	15.6	V	0.0	22.9	-7.3	38.4	54
24733.062500	16.3	H	0.0	22.6	-6.3	37.7	54
25226.062500	18.2	V	0.0	24.1	-5.9	35.8	54

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

802.11n (HT20) CH11

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

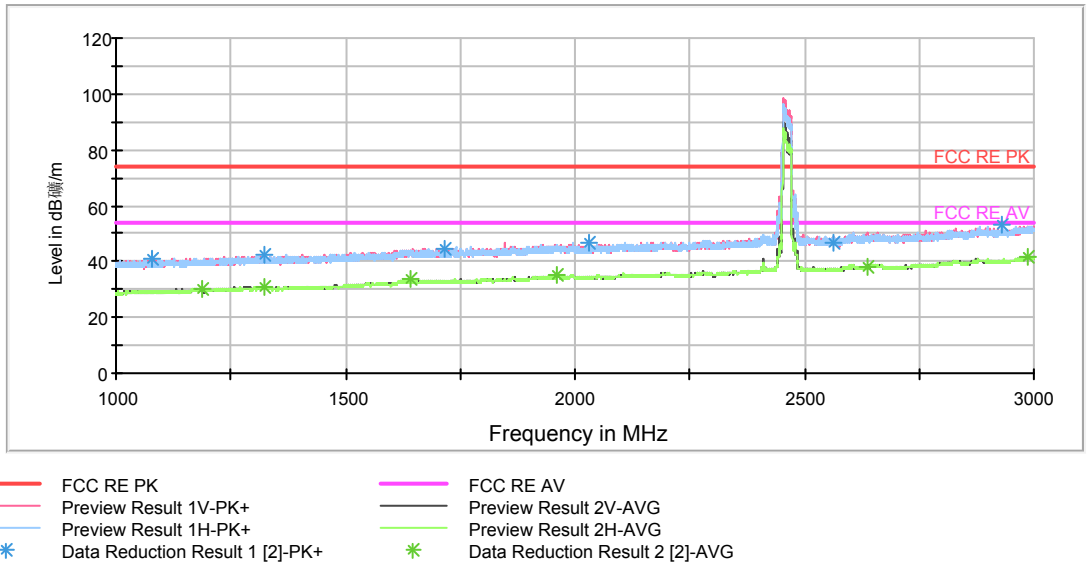
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
41.161250	12.2	114.0	V	212.0	25.4	-13.2	27.8	40.0
59.465000	19.7	100.0	V	110.0	32.2	-12.5	20.3	40.0
115.481250	15.4	100.0	H	338.0	26.8	-11.4	28.1	43.5
198.011250	24.2	100.0	V	146.0	36.1	-11.9	19.3	43.5
550.888750	18.6	100.0	V	343.0	39.6	-21.0	27.4	46.0
908.258750	24.8	100.0	V	216.0	50.5	-25.7	21.2	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

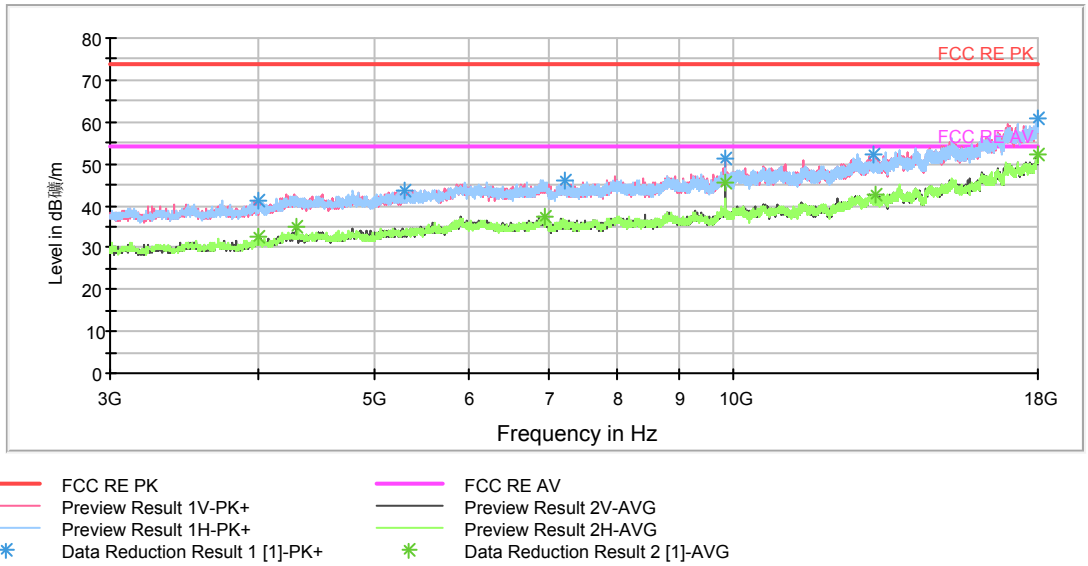
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1188.000000	39.6	100.0	V	0.0	47.8	-8.2	34.4	74
1324.000000	40.0	100.0	H	67.0	47.4	-7.4	34.0	74
1640.500000	43.6	100.0	H	18.0	48.3	-4.7	30.4	74
1959.750000	45.2	100.0	H	61.0	48.4	-3.2	28.8	74
2637.250000	47.8	100.0	V	123.0	47.9	-0.1	26.2	74
2988.250000	50.5	100.0	H	115.0	52.7	-2.2	23.5	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)
1188.000000	30.1	100.0	V	0.0	38.3	-8.2	23.9	54
1324.000000	31.1	100.0	H	67.0	38.5	-7.4	22.9	54
1640.500000	33.4	100.0	H	18.0	38.1	-4.7	20.6	54
1959.750000	35.2	100.0	H	61.0	38.4	-3.2	18.8	54
2637.250000	38.1	100.0	V	123.0	38.2	-0.1	15.9	54
2988.250000	41.7	100.0	H	115.0	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

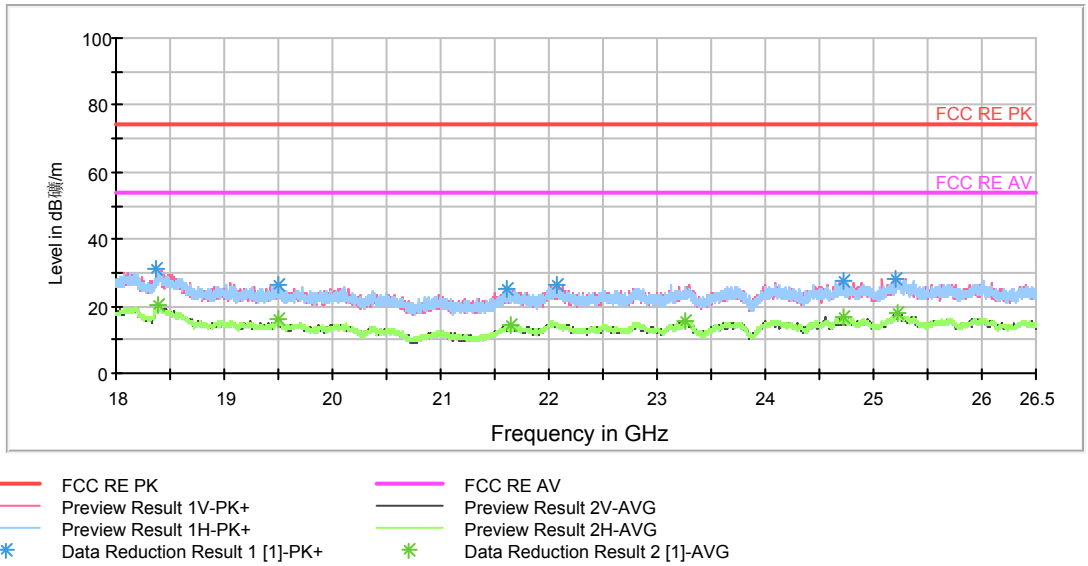
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4001.250000	39.2	100.0	H	336.0	39.7	-0.5	34.8	74
4297.500000	42.0	100.0	V	321.0	44.1	-2.1	32.0	74
6941.250000	45.3	100.0	H	311.0	52.0	-6.7	28.7	74
9847.500000	51.1	100.0	V	24.0	62.9	-11.8	22.9	74
13179.375000	48.6	100.0	H	265.0	63.8	-15.2	25.4	74
17977.500000	57.6	100.0	V	310.0	82.7	-25.1	16.4	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)
4001.250000	32.5	100.0	H	336.0	33.0	-0.5	21.5	54
4297.500000	34.9	100.0	V	321.0	37.0	-2.1	19.1	54
6941.250000	37.6	100.0	H	311.0	44.3	-6.7	16.4	54
9847.500000	45.5	100.0	V	24.0	57.3	-11.8	8.5	54
13179.375000	42.9	100.0	H	265.0	58.1	-15.2	11.1	54
17977.500000	52.0	100.0	V	310.0	77.1	-25.1	2.0	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	29.0	V	0.0	33.9	-4.9	45.0	74
19499.187500	25.7	H	0.0	33.2	-7.5	48.3	74
21652.875000	22.6	V	0.0	31.8	-9.2	51.4	74
23267.875000	23.0	V	0.0	30.3	-7.3	51.0	74
24725.625000	26.0	V	0.0	32.2	-6.2	48.0	74
25220.750000	26.0	H	0.0	32.0	-6.0	48.0	74

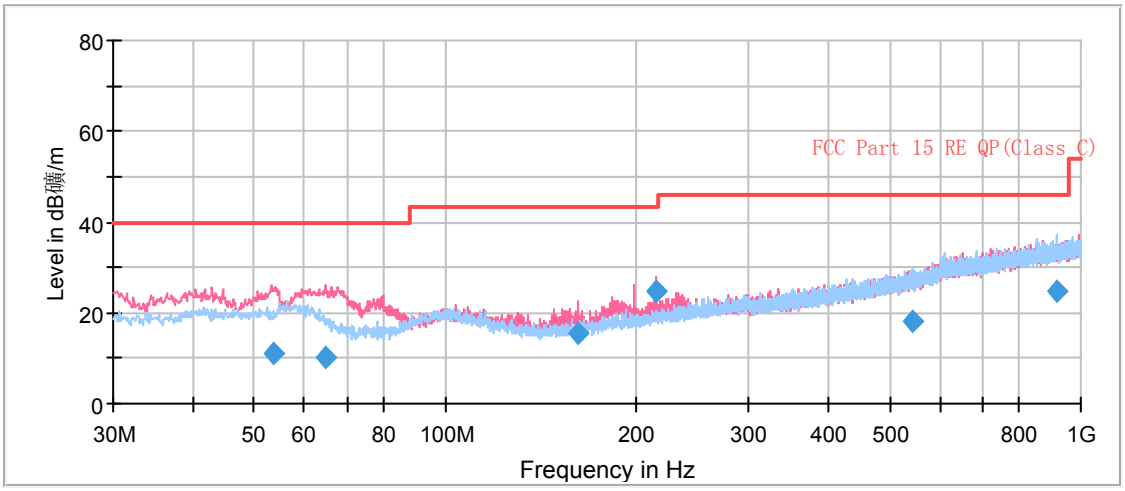
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18392.062500	20.2	V	0.0	25.1	-4.9	33.8	54
19499.187500	15.9	H	0.0	23.4	-7.5	38.1	54
21652.875000	14.4	V	0.0	23.6	-9.2	39.6	54
23267.875000	15.5	V	0.0	22.8	-7.3	38.5	54
24725.625000	16.6	V	0.0	22.8	-6.2	37.4	54
25220.750000	18.2	H	0.0	24.2	-6.0	35.8	54

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

802.11n (HT40) CH3

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

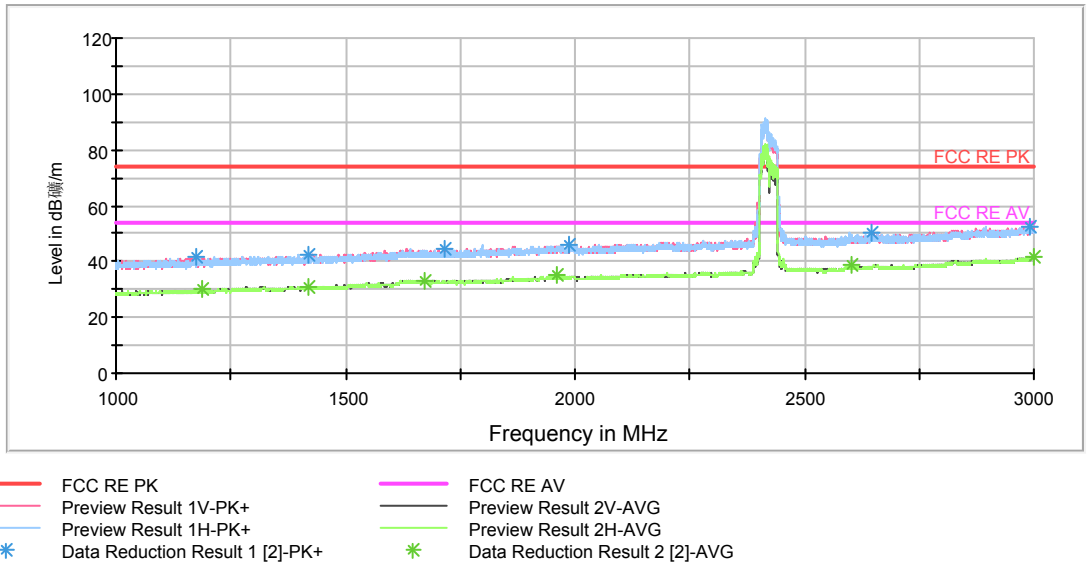
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
53.601250	11.1	100.0	V	322.0	23.9	-12.8	28.9	40.0
64.758750	10.4	100.0	V	286.0	21.0	-10.6	29.6	40.0
162.037500	15.6	113.0	V	276.0	25.4	-9.8	27.9	43.5
214.502500	24.7	100.0	V	326.0	37.3	-12.6	18.8	43.5
542.155000	18.3	125.0	H	36.0	39.2	-20.9	27.7	46.0
918.881250	24.7	100.0	H	17.0	50.5	-25.8	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

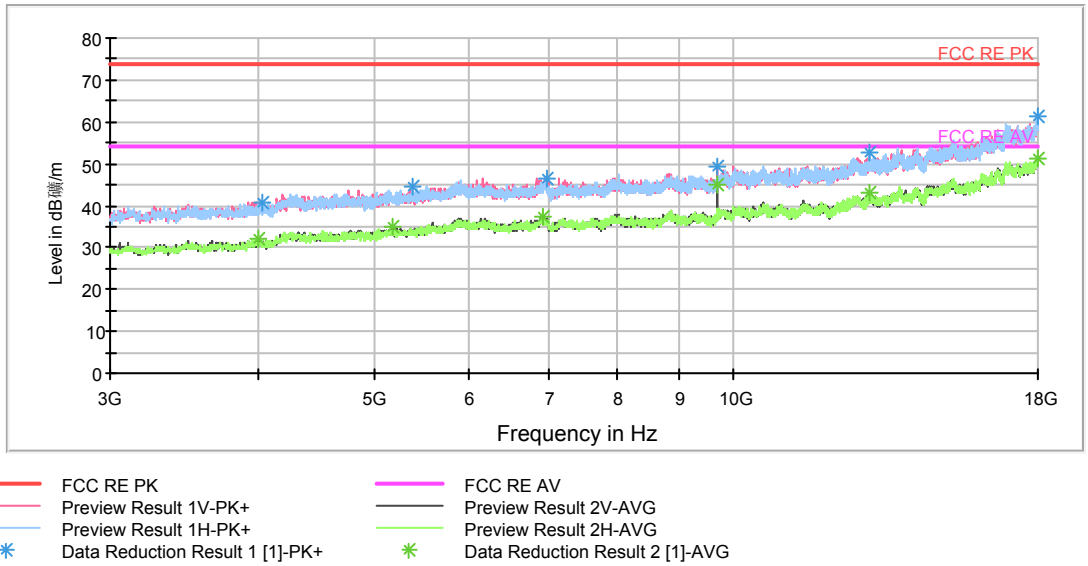
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1188.500000	39.6	100.0	H	114.0	47.8	-8.2	34.4	74
1421.250000	39.8	100.0	V	0.0	46.7	-6.9	34.2	74
1672.250000	41.8	100.0	V	137.0	46.9	-5.1	32.2	74
1958.750000	44.7	100.0	H	0.0	47.9	-3.2	29.3	74
2603.500000	47.7	100.0	V	249.0	48.0	-0.3	26.3	74
2998.750000	51.3	100.0	V	347.0	53.6	-2.3	22.7	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)
1188.500000	30.1	100.0	H	114.0	38.3	-8.2	23.9	54
1421.250000	31.0	100.0	V	0.0	37.9	-6.9	23.0	54
1672.250000	33.3	100.0	V	137.0	38.4	-5.1	20.7	54
1958.750000	35.2	100.0	H	0.0	38.4	-3.2	18.8	54
2603.500000	38.5	100.0	V	249.0	38.8	-0.3	15.5	54
2998.750000	41.6	100.0	V	347.0	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

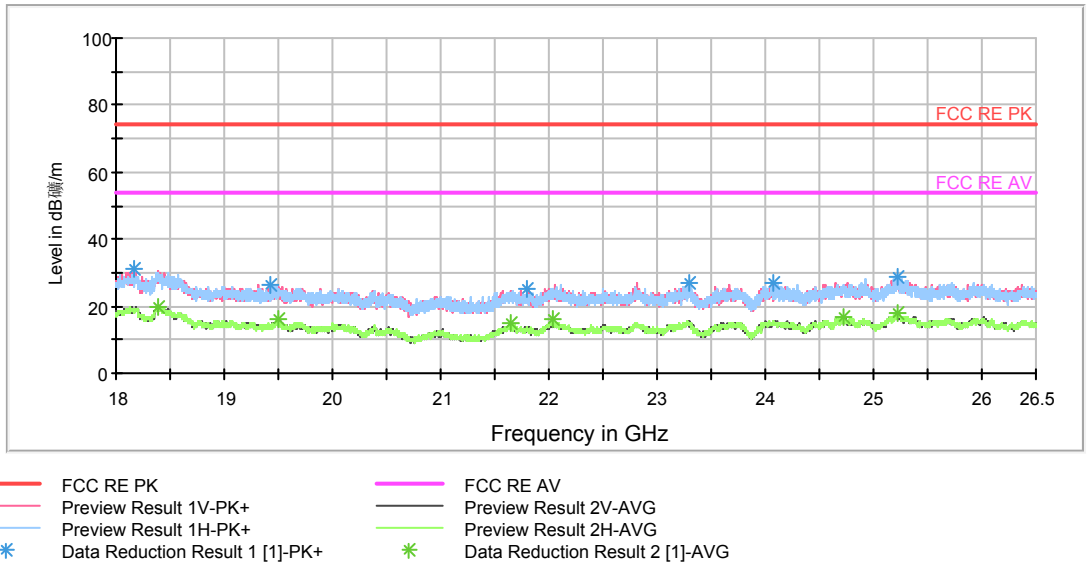
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3999.375000	39.4	100.0	V	173.0	39.9	-0.5	34.6	74
5178.750000	41.9	100.0	V	317.0	45.5	-3.6	32.1	74
6920.625000	45.1	100.0	H	114.0	52.0	-6.9	28.9	74
9688.125000	49.3	100.0	V	11.0	60.2	-10.9	24.7	74
13006.875000	50.0	100.0	H	0.0	66.2	-16.2	24.0	74
17979.375000	59.4	100.0	V	261.0	84.6	-25.2	14.6	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)
3999.375000	32.0	100.0	V	173.0	32.5	-0.5	22.0	54
5178.750000	34.9	100.0	V	317.0	38.5	-3.6	19.1	54
6920.625000	37.2	100.0	H	114.0	44.1	-6.9	16.8	54
9688.125000	44.9	100.0	V	11.0	55.8	-10.9	9.1	54
13006.875000	43.0	100.0	H	0.0	59.2	-16.2	11.0	54
17979.375000	51.5	100.0	V	261.0	76.7	-25.2	2.5	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)
18396.312500	28.2	V	0.0	33.1	-4.9	45.8	74
19493.875000	24.1	V	0.0	31.7	-7.6	49.9	74
21647.562500	24.3	V	0.0	33.5	-9.2	49.7	74
22040.687500	24.7	H	0.0	32.7	-8.0	49.3	74
24726.687500	25.3	V	0.0	31.5	-6.2	48.7	74
25231.375000	26.3	V	0.0	32.2	-5.9	47.7	74

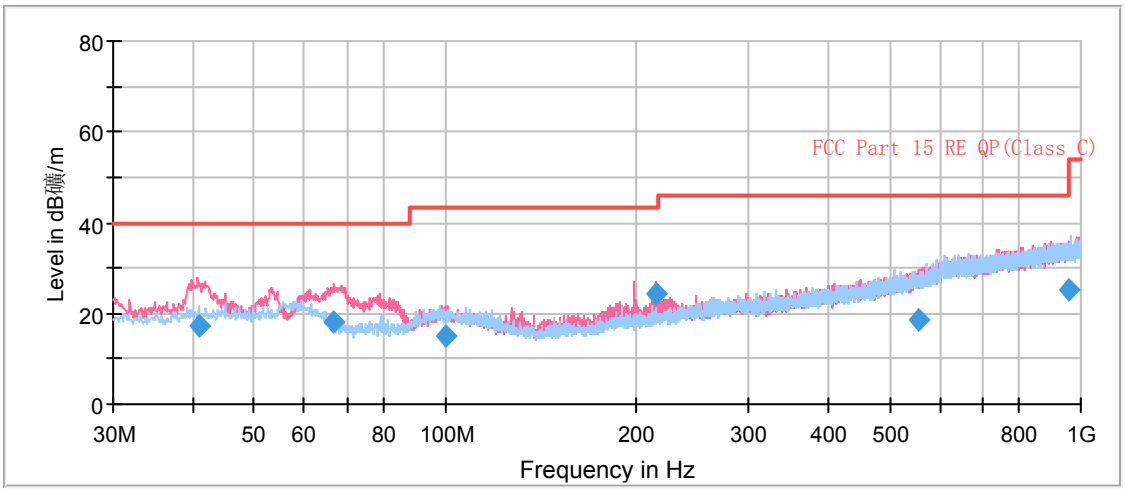
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18396.312500	20.0	V	0.0	24.9	-4.9	34.0	54
19493.875000	16.1	V	0.0	23.7	-7.6	37.9	54
21647.562500	14.7	V	0.0	23.9	-9.2	39.3	54
22040.687500	16.1	H	0.0	24.1	-8.0	37.9	54
24726.687500	16.5	V	0.0	22.7	-6.2	37.5	54
25231.375000	18.1	V	0.0	24.0	-5.9	35.9	54

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

802.11n (HT40) CH6

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

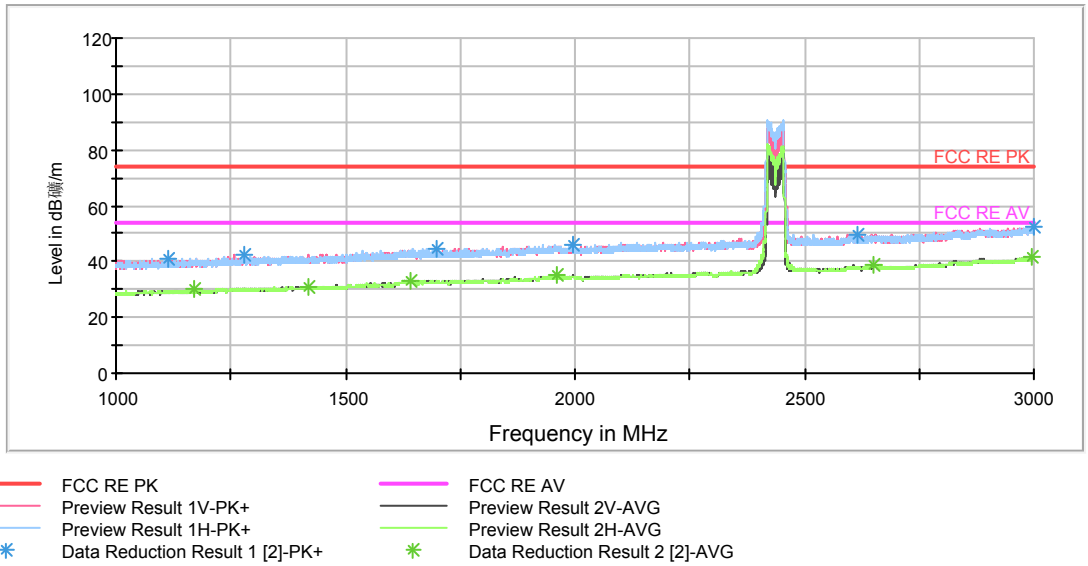
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
40.950000	17.3	100.0	V	22.0	30.5	-13.2	22.7	40.0
66.860000	18.2	100.0	V	22.0	28.0	-9.8	21.8	40.0
100.127500	15.1	125.0	V	146.0	28.3	-13.2	28.4	43.5
214.501250	24.2	100.0	V	0.0	36.8	-12.6	19.3	43.5
555.815000	18.8	100.0	V	0.0	40.0	-21.2	27.2	46.0
956.153750	25.3	100.0	V	0.0	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

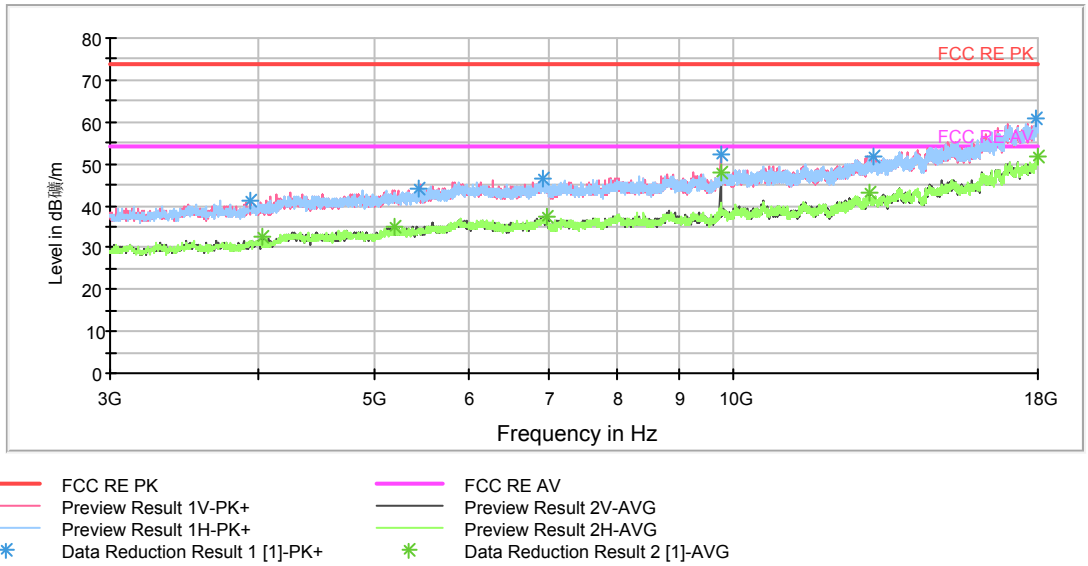
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1170.250000	39.3	100.0	V	21.0	47.4	-8.1	34.7	74
1419.500000	40.5	100.0	H	99.0	47.4	-6.9	33.5	74
1641.000000	42.6	100.0	H	187.0	47.3	-4.7	31.4	74
1960.000000	44.7	100.0	H	25.0	47.9	-3.2	29.3	74
2652.500000	47.5	100.0	H	36.0	47.9	-0.4	26.5	74
2995.250000	51.0	100.0	V	282.0	53.3	-2.3	23.0	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)
1170.250000	30.4	100.0	V	21.0	38.5	-8.1	23.6	54
1419.500000	31.1	100.0	H	99.0	38.0	-6.9	22.9	54
1641.000000	33.0	100.0	H	187.0	37.7	-4.7	21.0	54
1960.000000	35.0	100.0	H	25.0	38.2	-3.2	19.0	54
2652.500000	38.7	100.0	H	36.0	39.1	-0.4	15.3	54
2995.250000	41.6	100.0	V	282.0	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

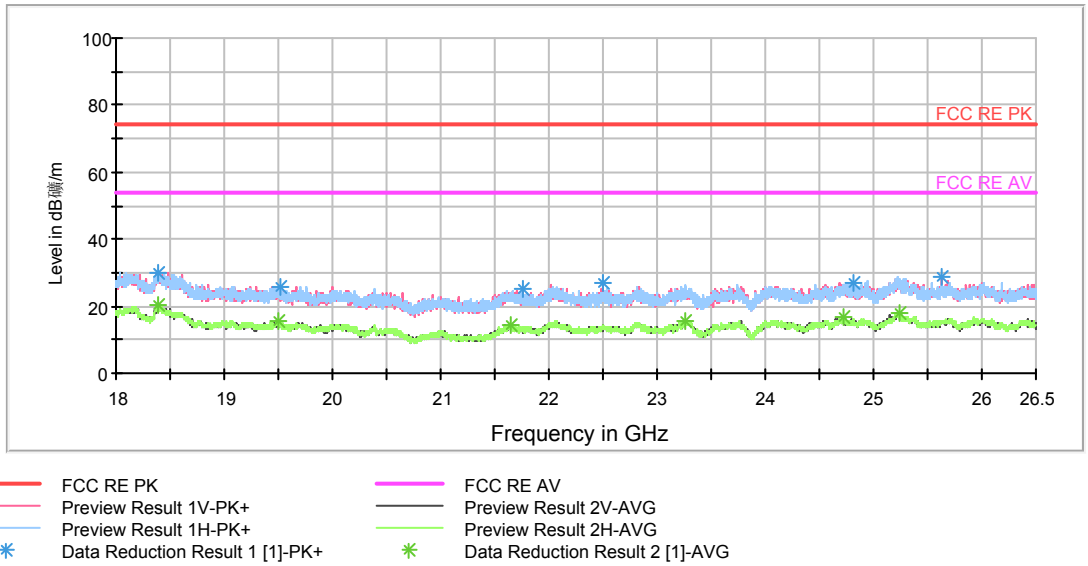
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4018.125000	40.3	100.0	V	0.0	40.8	-0.5	33.7	74
5191.875000	40.7	100.0	V	162.0	44.3	-3.6	33.3	74
6961.875000	43.8	100.0	H	94.0	50.4	-6.6	30.2	74
9748.125000	52.1	100.0	V	11.0	63.7	-11.6	21.9	74
13003.125000	51.1	100.0	V	321.0	67.3	-16.2	22.9	74
17975.625000	59.9	100.0	V	311.0	85.0	-25.1	14.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4018.125000	32.7	100.0	V	0.0	33.2	-0.5	21.3	54
5191.875000	34.9	100.0	V	162.0	38.5	-3.6	19.1	54
6961.875000	37.2	100.0	H	94.0	43.8	-6.6	16.8	54
9748.125000	47.8	100.0	V	11.0	59.4	-11.6	6.2	54
13003.125000	42.9	100.0	V	321.0	59.1	-16.2	11.1	54
17975.625000	51.6	100.0	V	311.0	76.7	-25.1	2.4	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)
18384.625000	28.4	H	0.0	33.2	-4.8	45.6	74
19494.937500	24.8	V	0.0	32.4	-7.6	49.2	74
21644.375000	22.3	H	0.0	31.4	-9.1	51.7	74
23257.250000	24.0	H	0.0	31.4	-7.4	50.0	74
24728.812500	25.2	H	0.0	31.4	-6.2	48.8	74
25233.500000	28.3	H	0.0	34.2	-5.9	45.7	74

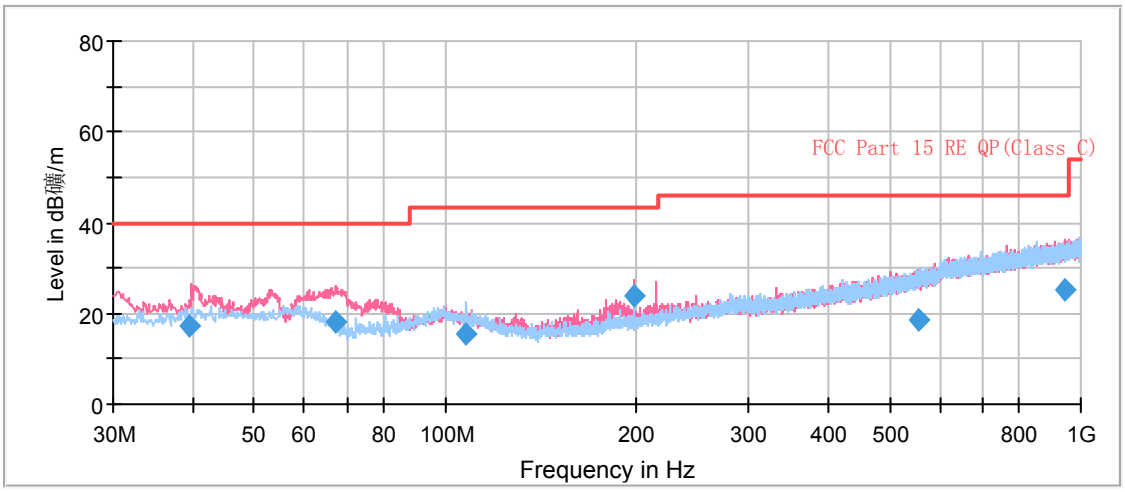
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18384.625000	20.1	H	0.0	24.9	-4.8	33.9	54
19494.937500	15.6	V	0.0	23.2	-7.6	38.4	54
21644.375000	14.5	H	0.0	23.6	-9.1	39.5	54
23257.250000	15.5	H	0.0	22.9	-7.4	38.5	54
24728.812500	16.6	H	0.0	22.8	-6.2	37.4	54
25233.500000	18.0	H	0.0	23.9	-5.9	36.0	54

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

802.11n (HT40) CH9

RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

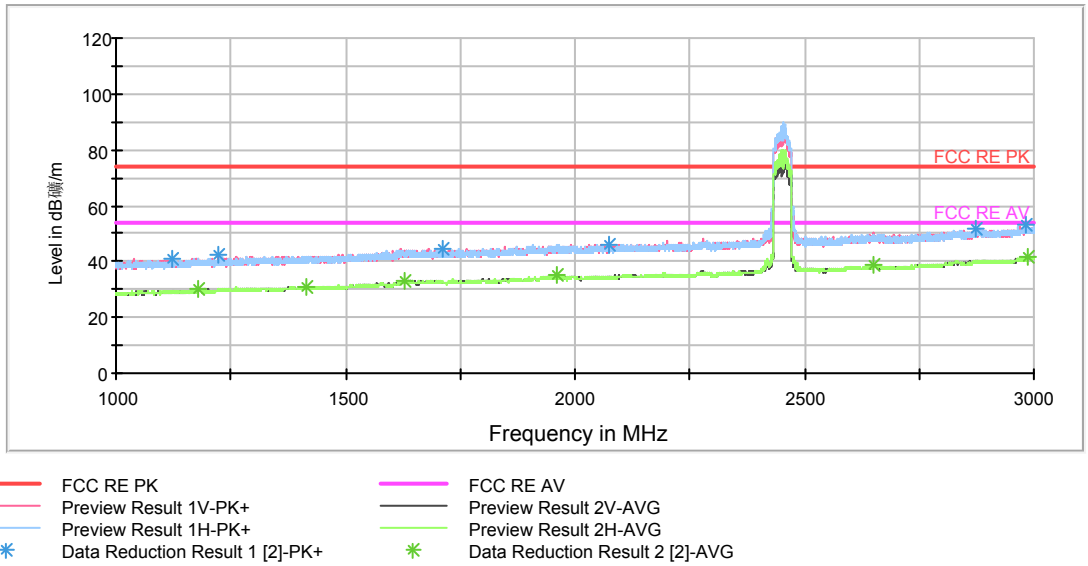
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
39.621250	17.2	100.0	V	16.0	30.3	-13.1	22.8	40.0
67.343750	18.2	100.0	V	22.0	27.8	-9.6	21.8	40.0
108.003750	15.6	100.0	H	104.0	28.1	-12.5	27.9	43.5
198.011250	24.1	100.0	V	0.0	36.0	-11.9	19.4	43.5
556.875000	18.8	125.0	V	260.0	40.0	-21.2	27.2	46.0
942.481250	25.3	114.0	V	264.0	51.3	-26.0	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

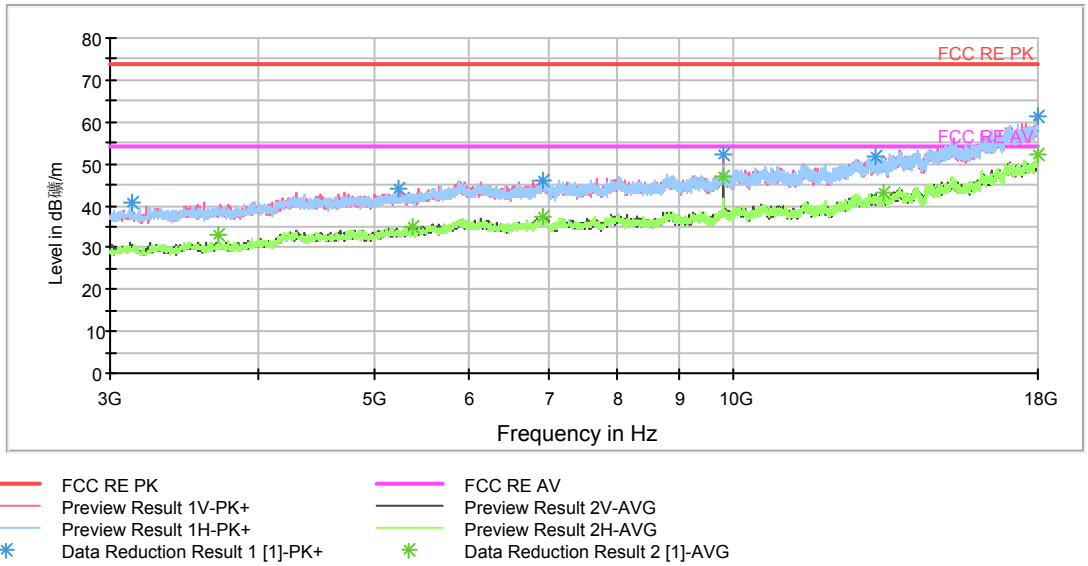
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1179.000000	40.7	100.0	V	212.0	48.7	-8.0	33.3	74
1416.500000	40.1	100.0	V	293.0	47.1	-7.0	33.9	74
1628.750000	42.2	100.0	V	196.0	46.9	-4.7	31.8	74
1961.250000	43.4	100.0	V	101.0	46.6	-3.2	30.6	74
2649.250000	48.2	100.0	V	224.0	48.6	-0.4	25.8	74
2987.250000	50.8	100.0	H	37.0	53.0	-2.2	23.2	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)
1179.000000	29.9	100.0	V	212.0	37.9	-8.0	24.1	54
1416.500000	30.9	100.0	V	293.0	37.9	-7.0	23.1	54
1628.750000	33.2	100.0	V	196.0	37.9	-4.7	20.8	54
1961.250000	34.9	100.0	V	101.0	38.1	-3.2	19.1	54
2649.250000	38.7	100.0	V	224.0	39.1	-0.4	15.3	54
2987.250000	41.5	100.0	H	37.0	43.7	-2.2	12.5	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

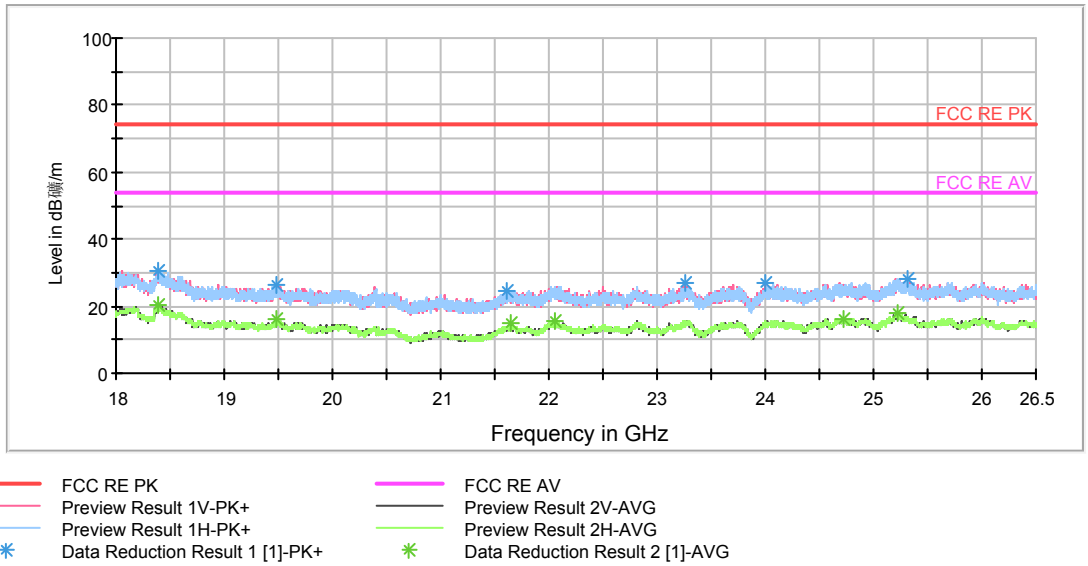
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3697.500000	39.1	100.0	H	171.0	39.4	-0.3	34.9	74
5383.125000	41.4	100.0	H	91.0	45.1	-3.7	32.6	74
6920.625000	44.6	100.0	H	298.0	51.5	-6.9	29.4	74
9808.125000	52.4	100.0	V	24.0	64.6	-12.2	21.6	74
13346.250000	51.0	100.0	H	227.0	66.8	-15.8	23.0	74
17973.750000	59.6	100.0	H	0.0	84.7	-25.1	14.4	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)
3697.500000	32.9	100.0	H	171.0	33.2	-0.3	21.1	54
5383.125000	34.8	100.0	H	91.0	38.5	-3.7	19.2	54
6920.625000	37.2	100.0	H	298.0	44.1	-6.9	16.8	54
9808.125000	46.9	100.0	V	24.0	59.1	-12.2	7.1	54
13346.250000	43.2	100.0	H	227.0	59.0	-15.8	10.8	54
17973.750000	52.0	100.0	H	0.0	77.1	-25.1	2.0	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)
18394.187500	29.9	H	0.0	34.8	-4.9	44.1	74
19482.187500	23.5	V	0.0	31.2	-7.7	50.5	74
21641.187500	23.3	V	0.0	32.4	-9.1	50.7	74
22056.625000	22.7	H	0.0	30.8	-8.1	51.3	74
24720.312500	24.6	V	0.0	30.9	-6.3	49.4	74
25215.437500	26.0	V	0.0	32.1	-6.1	48.0	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18394.187500	20.4	H	0.0	25.3	-4.9	33.6	54
19482.187500	16.2	V	0.0	23.9	-7.7	37.8	54
21641.187500	14.7	V	0.0	23.8	-9.1	39.3	54
22056.625000	15.6	H	0.0	23.7	-8.1	38.4	54
24720.312500	16.2	V	0.0	22.5	-6.3	37.8	54
25215.437500	18.0	V	0.0	24.1	-6.1	36.0	54

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

5.8. Conducted Emissions

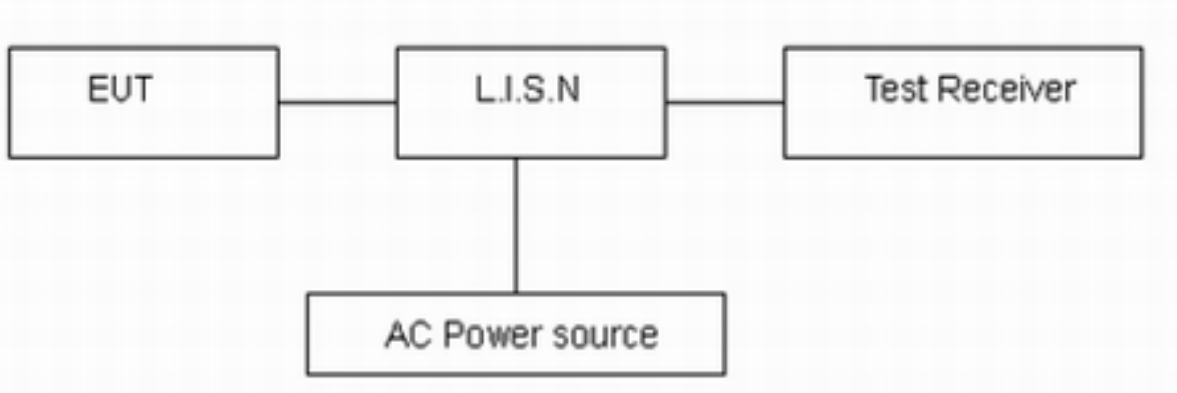
Ambient condition

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

Method 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 ANSIC63.4-2014.Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.
The test is in transmitting mode.

Test setup



Note: AC Power source is used to change the voltage from 220V/50Hz to 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.		

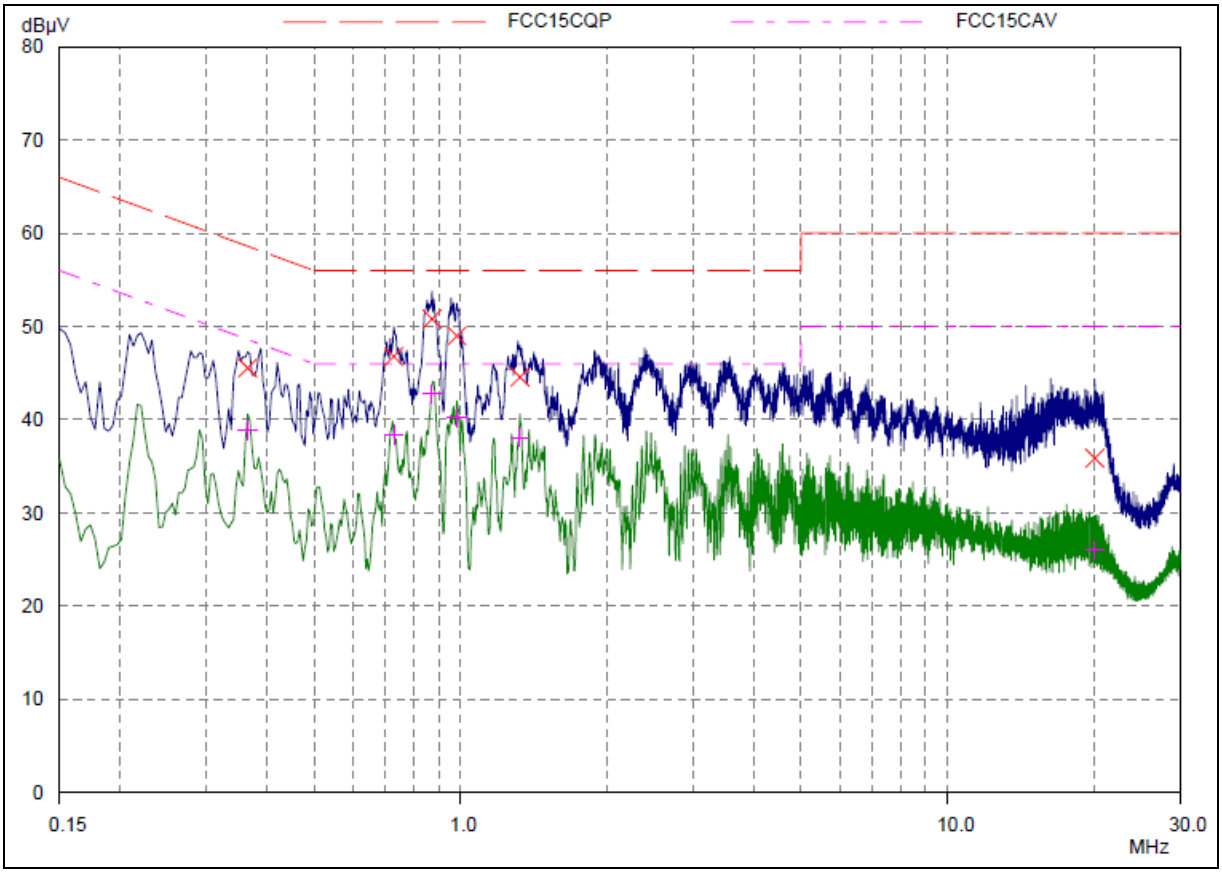
Measurement Uncertainty

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 CH1

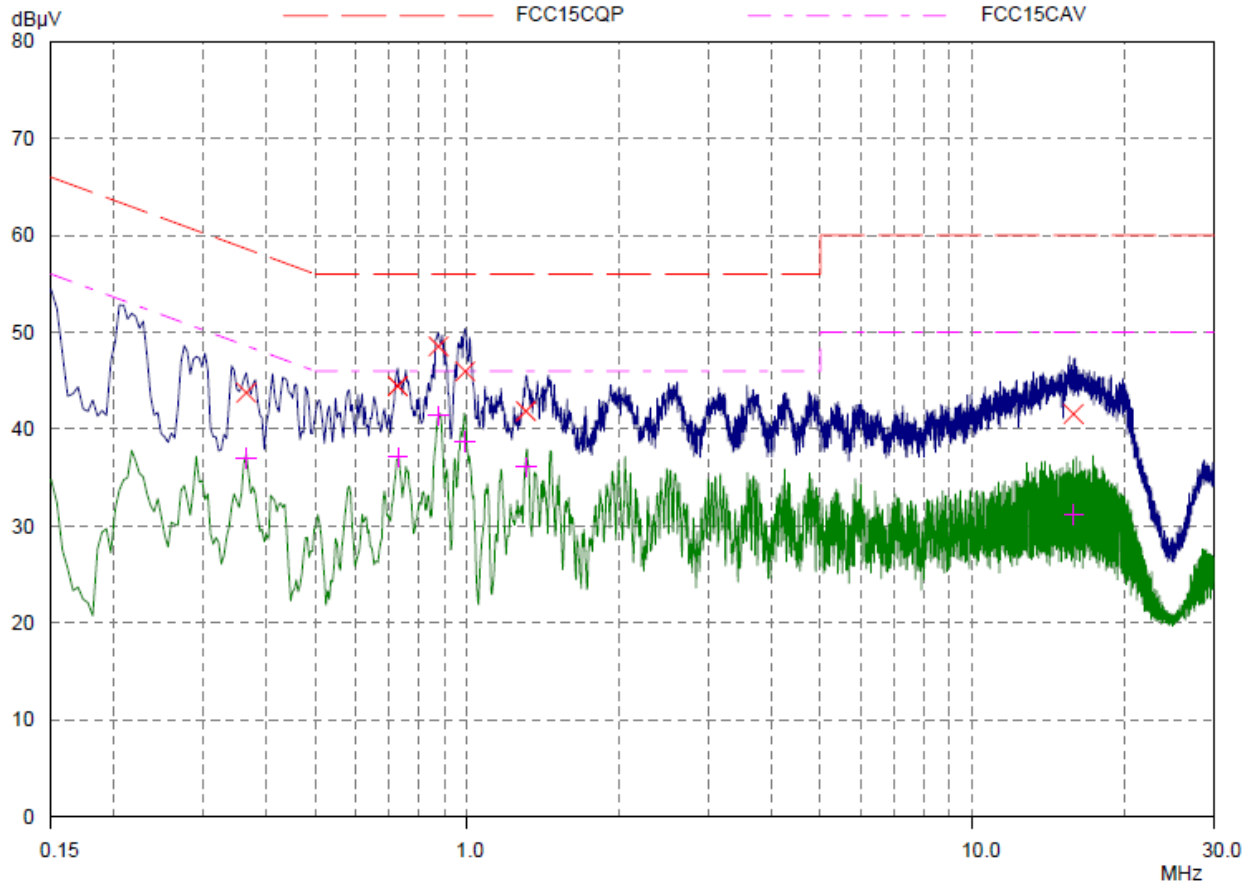


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.36484	45.54	58.62	13.08	L1	gnd
0.72812	46.78	56.00	9.22	L1	gnd
0.87265	50.80	56.00	5.20	L1	gnd
0.98203	49.00	56.00	7.00	L1	gnd
1.32187	44.58	56.00	11.42	L1	gnd
20.05234	35.87	60.00	24.13	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.36484	38.87	48.62	9.75	L1	gnd
0.72812	38.36	46.00	7.64	L1	gnd
0.87265	42.75	46.00	3.25	L1	gnd
0.98203	40.17	46.00	5.83	L1	gnd
1.32187	38.10	46.00	7.90	L1	gnd
20.05234	25.97	50.00	24.03	L1	gnd

L Line



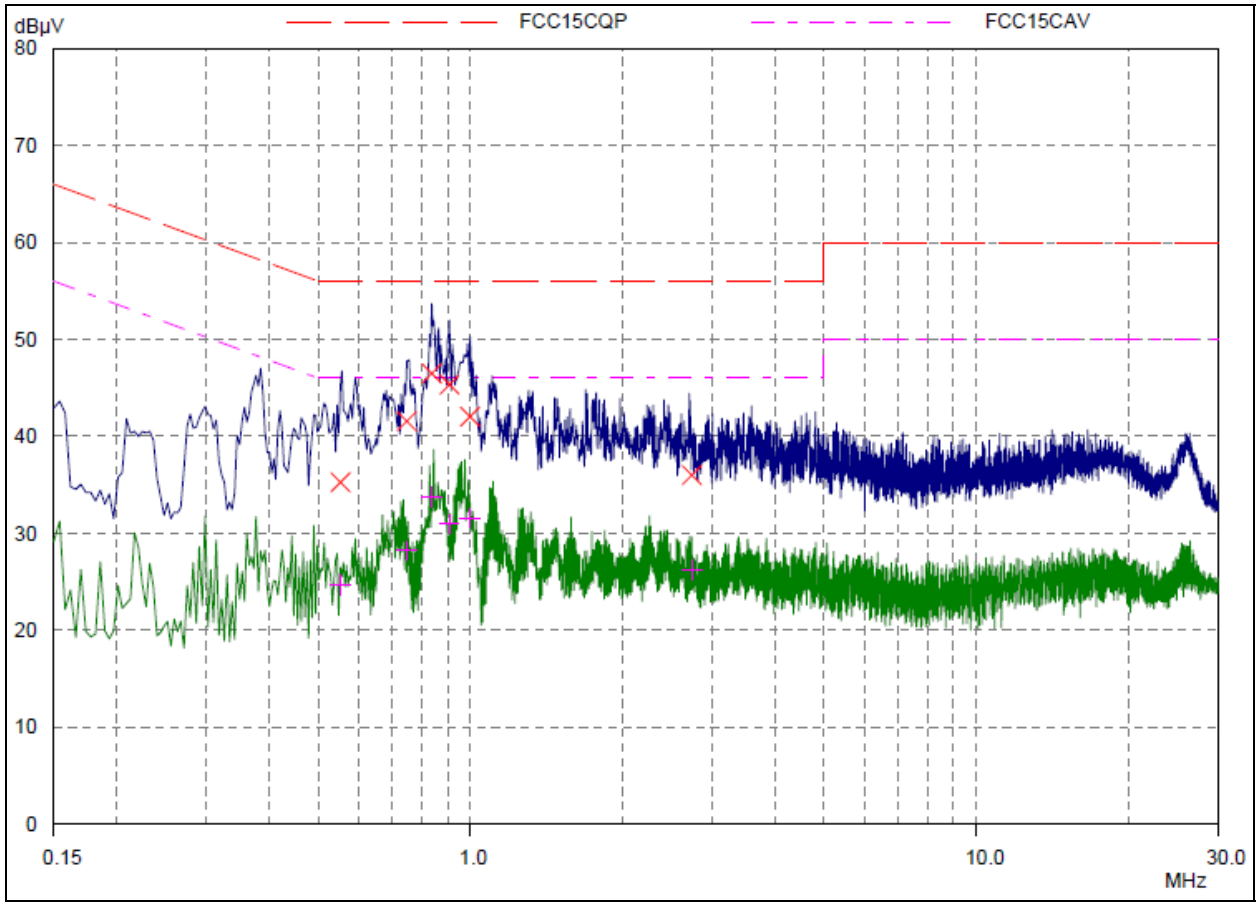
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.36484	43.76	58.62	14.86	N	gnd
0.72812	44.44	56.00	11.56	N	gnd
0.87656	48.54	56.00	7.46	N	gnd
0.98984	45.98	56.00	10.02	N	gnd
1.30625	41.86	56.00	14.14	N	gnd
15.85312	41.56	60.00	18.44	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.36484	37.03	48.62	11.59	N	gnd
0.72812	37.11	46.00	8.89	N	gnd
0.87656	41.40	46.00	4.60	N	gnd
0.98984	38.74	46.00	7.26	N	gnd
1.30625	36.08	46.00	9.92	N	gnd
15.85312	31.18	50.00	18.82	N	gnd

N Line

802.11b CH6

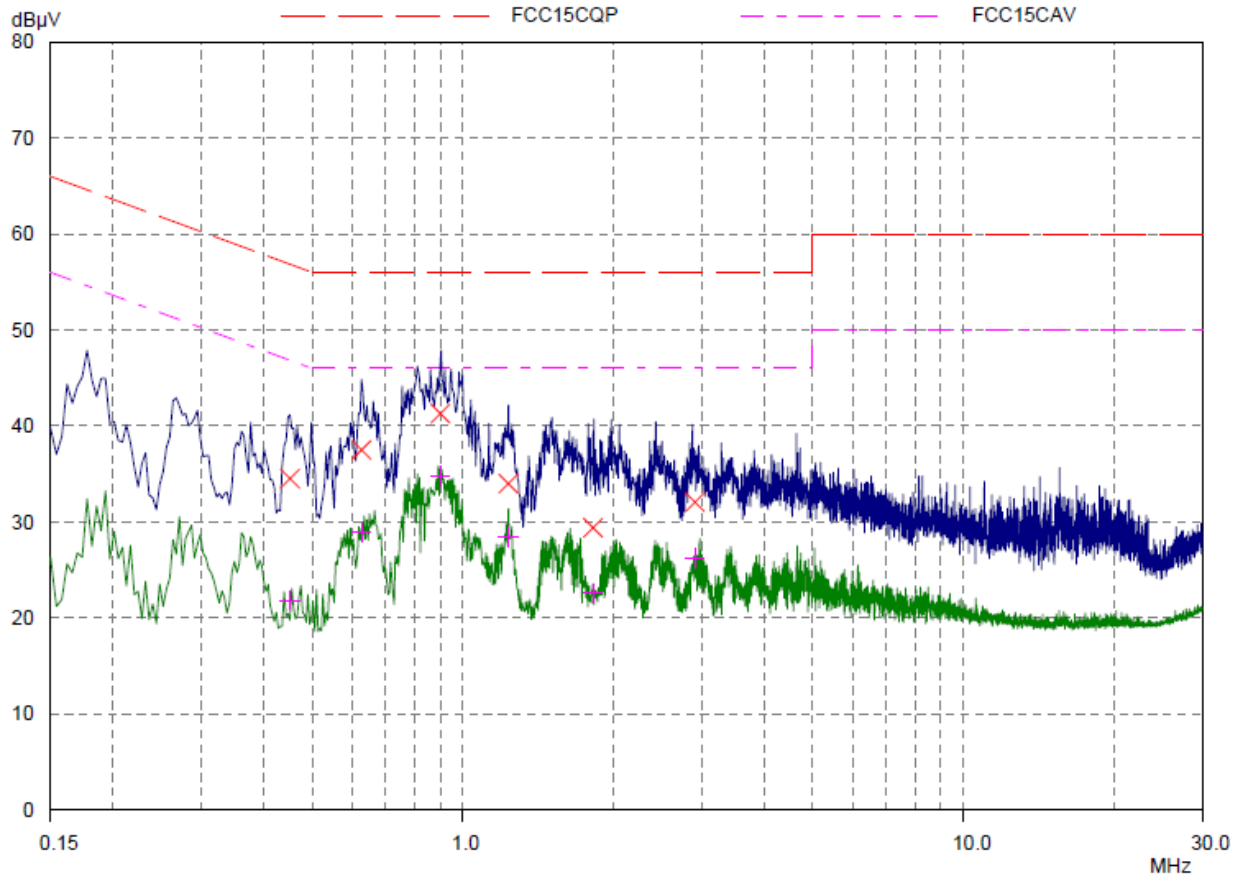


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.55234	35.26	56.00	20.74	L1	gnd
0.74765	41.56	56.00	14.44	L1	gnd
0.8375	46.48	56.00	9.52	L1	gnd
0.90781	45.34	56.00	10.66	L1	gnd
0.99765	42.02	56.00	13.98	L1	gnd
2.73593	36.00	56.00	20.00	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.55234	24.69	46.00	21.31	L1	gnd
0.74765	28.23	46.00	17.77	L1	gnd
0.8375	33.72	46.00	12.28	L1	gnd
0.90781	30.94	46.00	15.06	L1	gnd
0.99765	31.60	46.00	14.40	L1	gnd
2.73593	26.19	46.00	19.81	L1	gnd

L Line



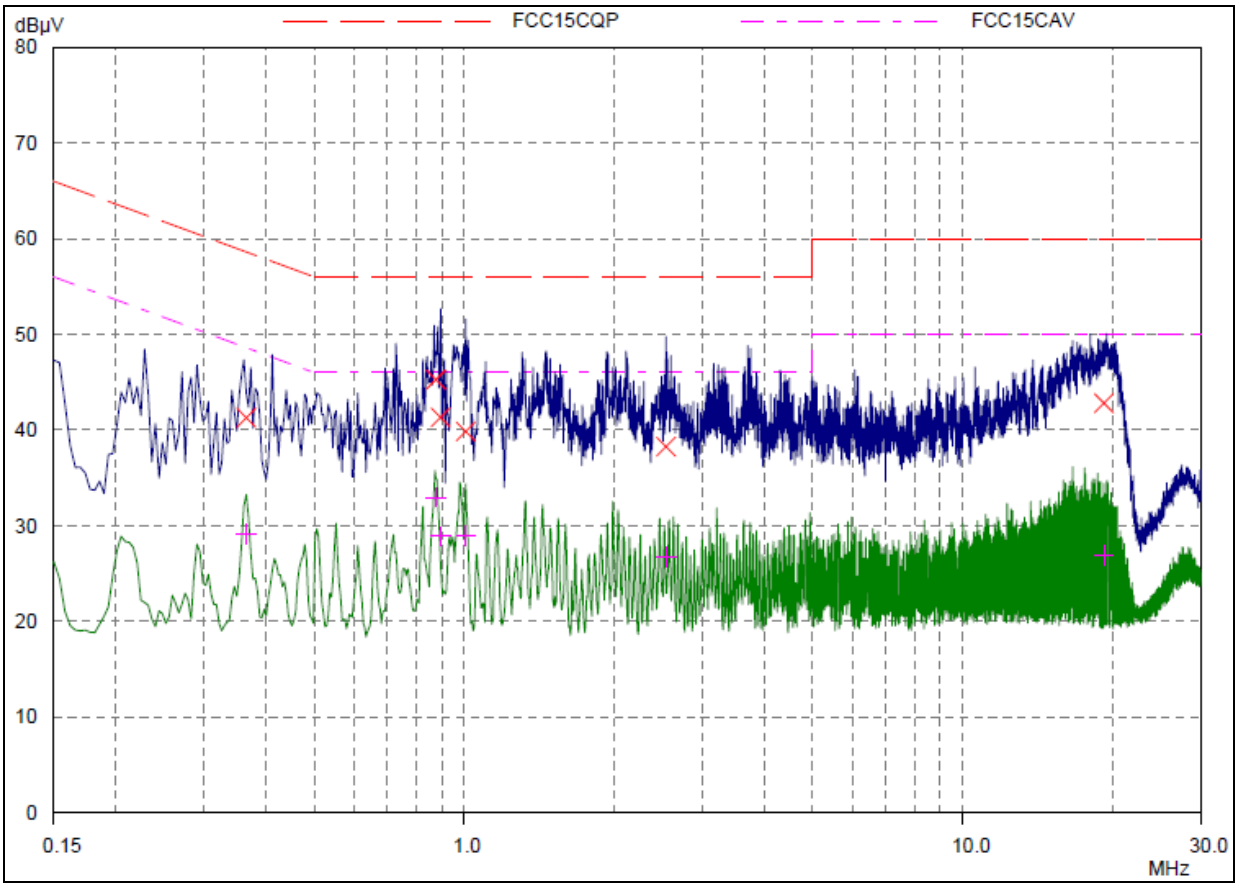
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.45078	34.52	56.86	22.34	N	gnd
0.62656	37.52	56.00	18.48	N	gnd
0.9	41.30	56.00	14.70	N	gnd
1.23203	34.00	56.00	22.00	N	gnd
1.81796	29.40	56.00	26.60	N	gnd
2.90781	32.08	56.00	23.92	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.45078	21.84	46.86	25.02	N	gnd
0.62656	28.89	46.00	17.11	N	gnd
0.9	34.81	46.00	11.19	N	gnd
1.23203	28.49	46.00	17.51	N	gnd
1.81796	22.57	46.00	23.43	N	gnd
2.90781	26.19	46.00	19.81	N	gnd

N Line

802.11b CH11

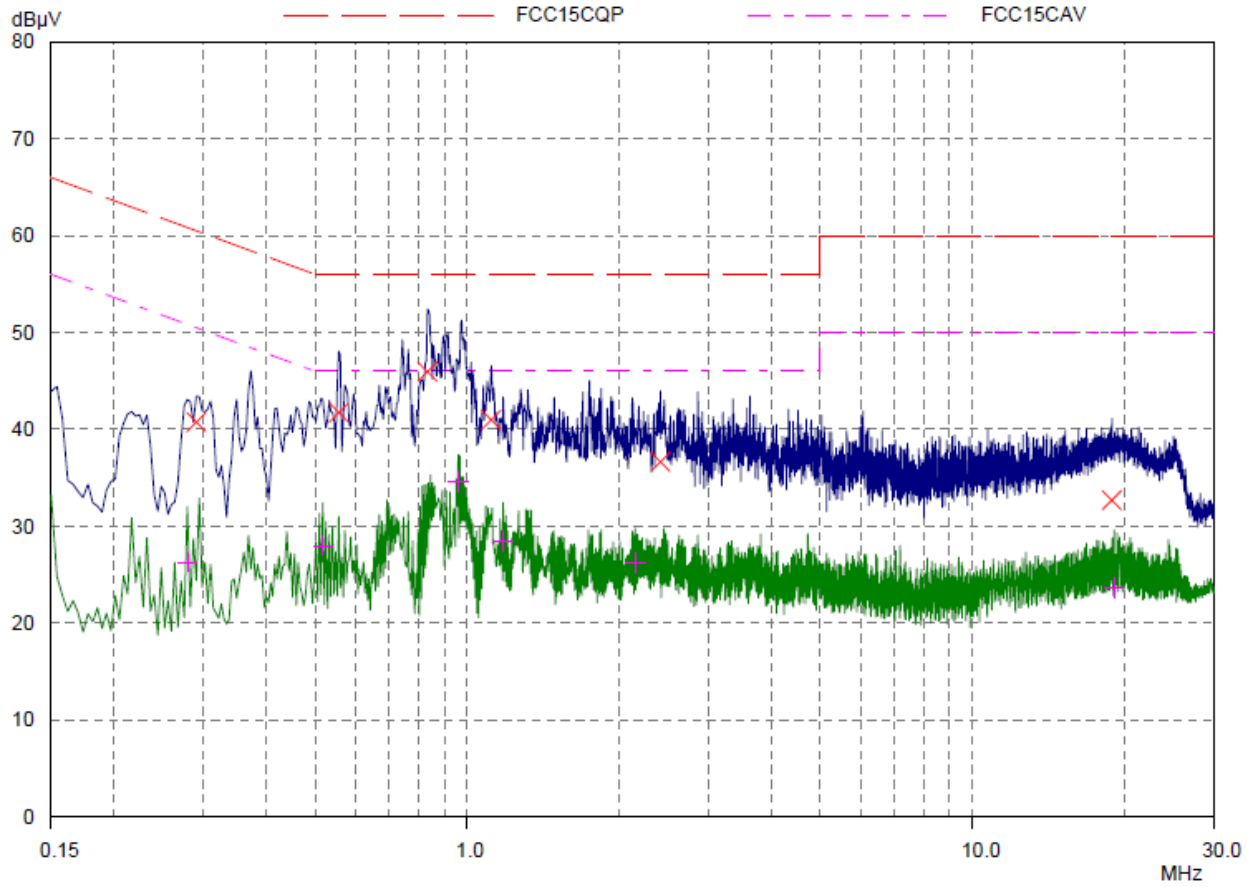


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.36484	41.30	58.62	17.32	L1	gnd
0.87656	45.28	56.00	10.72	L1	gnd
0.89609	41.32	56.00	14.68	L1	gnd
1.00546	39.86	56.00	16.14	L1	gnd
2.53671	38.26	56.00	17.74	L1	gnd
19.20078	42.82	60.00	17.18	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.36484	29.12	48.62	19.50	L1	gnd
0.87656	32.97	46.00	13.03	L1	gnd
0.89609	28.89	46.00	17.11	L1	gnd
1.00546	28.98	46.00	17.02	L1	gnd
2.53671	26.70	46.00	19.30	L1	gnd
19.20078	26.91	50.00	23.09	L1	gnd

L Line



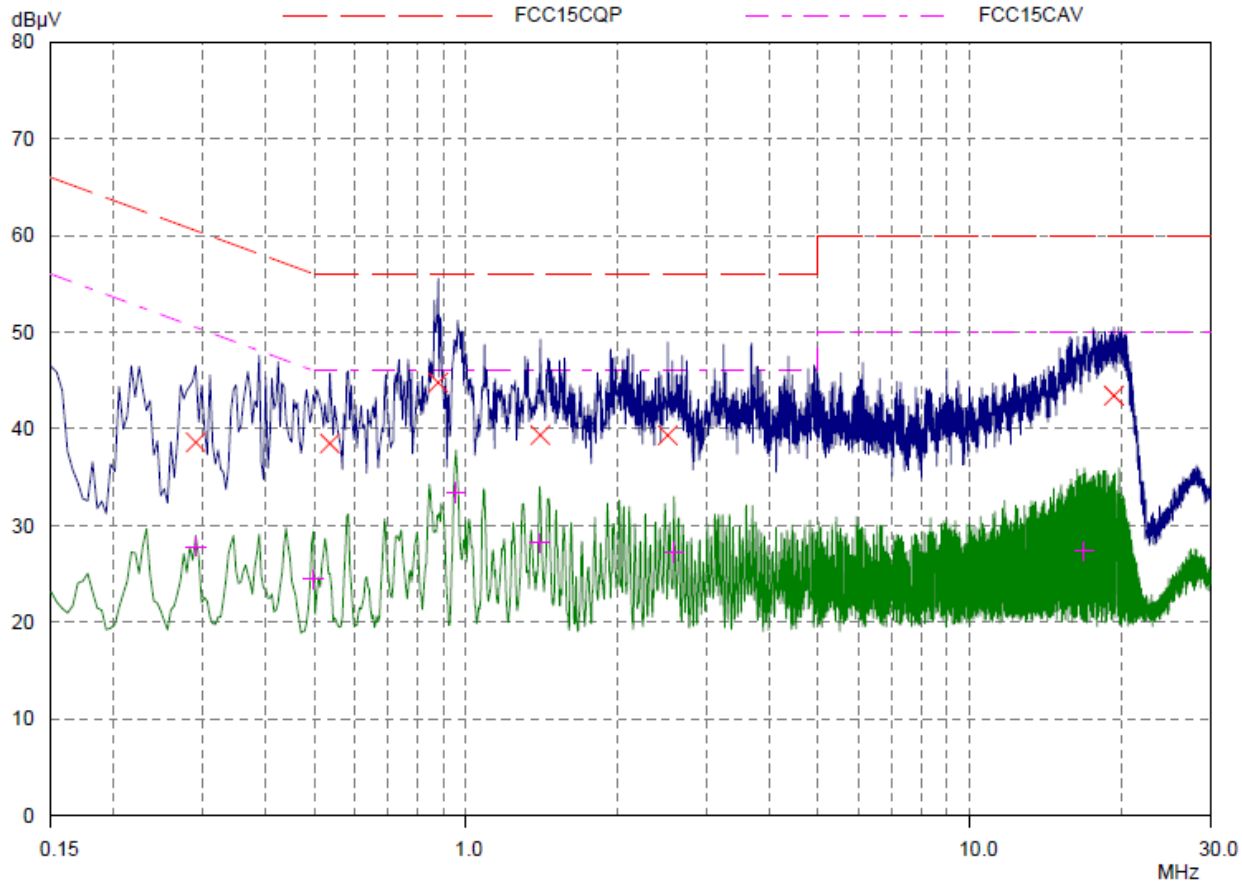
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.29062	40.74	60.51	19.77	N	gnd
0.55625	41.74	56.00	14.26	N	gnd
0.83359	45.96	56.00	10.04	N	gnd
1.11484	41.00	56.00	15.00	N	gnd
2.41171	36.66	56.00	19.34	N	gnd
18.87656	32.70	60.00	27.30	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.2789	26.32	50.85	24.53	N	gnd
0.51718	27.97	46.00	18.03	N	gnd
0.95859	34.61	46.00	11.39	N	gnd
1.17734	28.44	46.00	17.56	N	gnd
2.15	26.19	46.00	19.81	N	gnd
19.06796	23.65	50.00	26.35	N	gnd

N Line

802.11g CH1

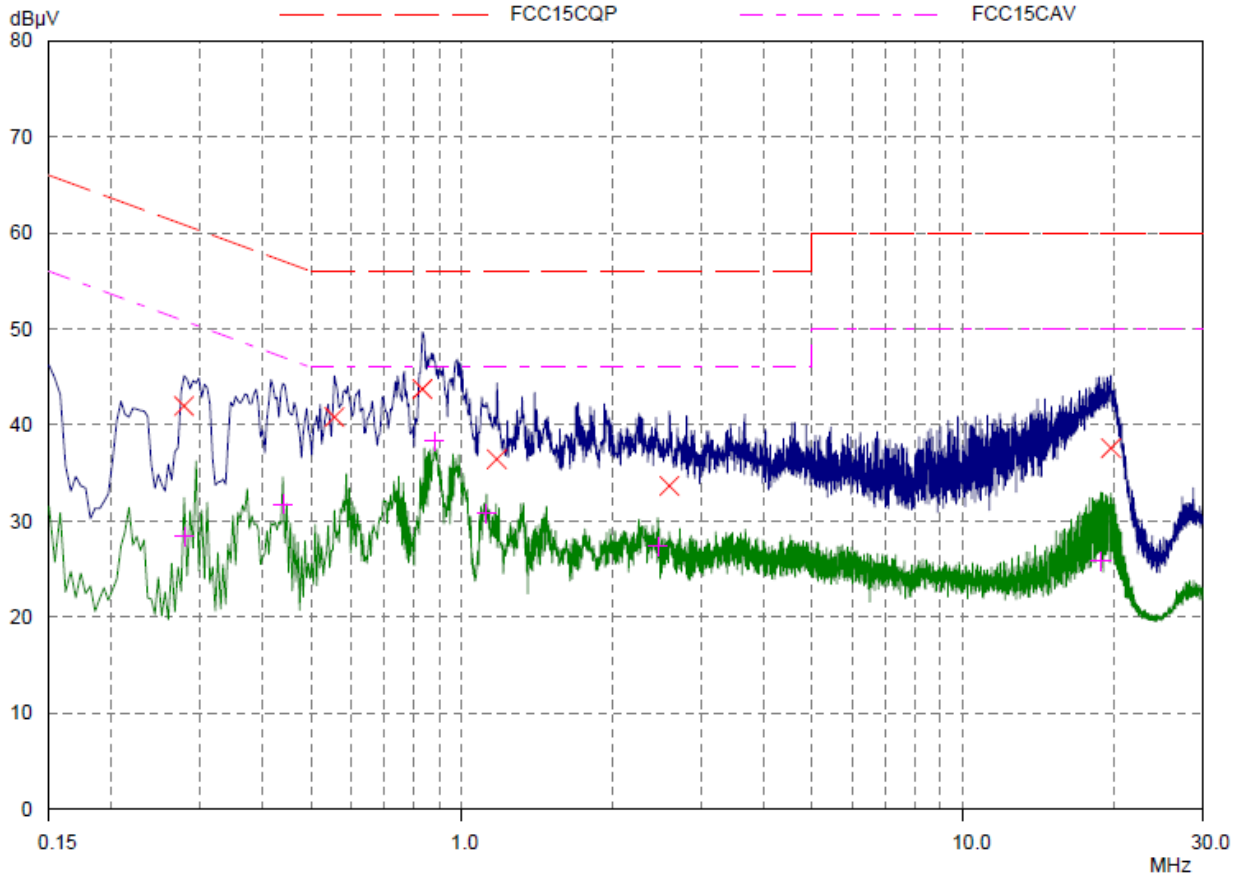


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.29062	38.62	60.51	21.89	L1	gnd
0.53671	38.48	56.00	17.52	L1	gnd
0.88046	44.78	56.00	11.22	L1	gnd
1.4039	39.36	56.00	16.64	L1	gnd
2.51328	39.34	56.00	16.66	L1	gnd
19.32187	43.43	60.00	16.57	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.29062	27.81	50.51	22.70	L1	gnd
0.49765	24.45	46.04	21.59	L1	gnd
0.95468	33.38	46.00	12.62	L1	gnd
1.4	28.23	46.00	17.77	L1	gnd
2.5875	27.30	46.00	18.70	L1	gnd
16.86093	27.37	50.00	22.63	L1	gnd

L Line



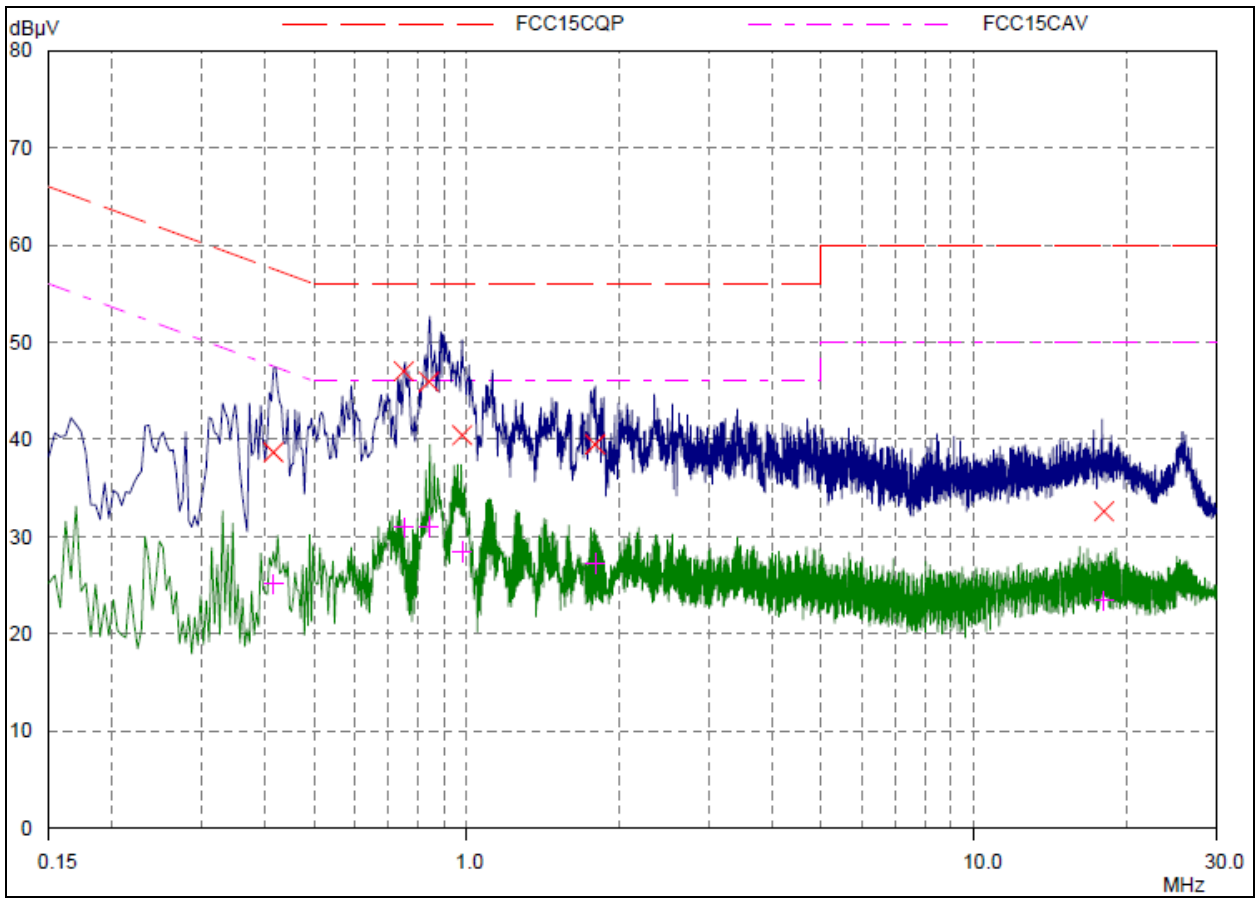
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.2789	41.98	60.85	18.87	N	gnd
0.55625	40.82	56.00	15.18	N	gnd
0.83359	43.74	56.00	12.26	N	gnd
1.17343	36.44	56.00	19.56	N	gnd
2.5914	33.66	56.00	22.34	N	gnd
19.72031	37.60	60.00	22.40	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.2789	28.39	50.85	22.46	N	gnd
0.43906	31.74	47.08	15.34	N	gnd
0.88046	38.30	46.00	7.70	N	gnd
1.11875	30.78	46.00	15.22	N	gnd
2.45859	27.36	46.00	18.64	N	gnd
18.81015	25.80	50.00	24.20	N	gnd

N Line

802.11g CH6

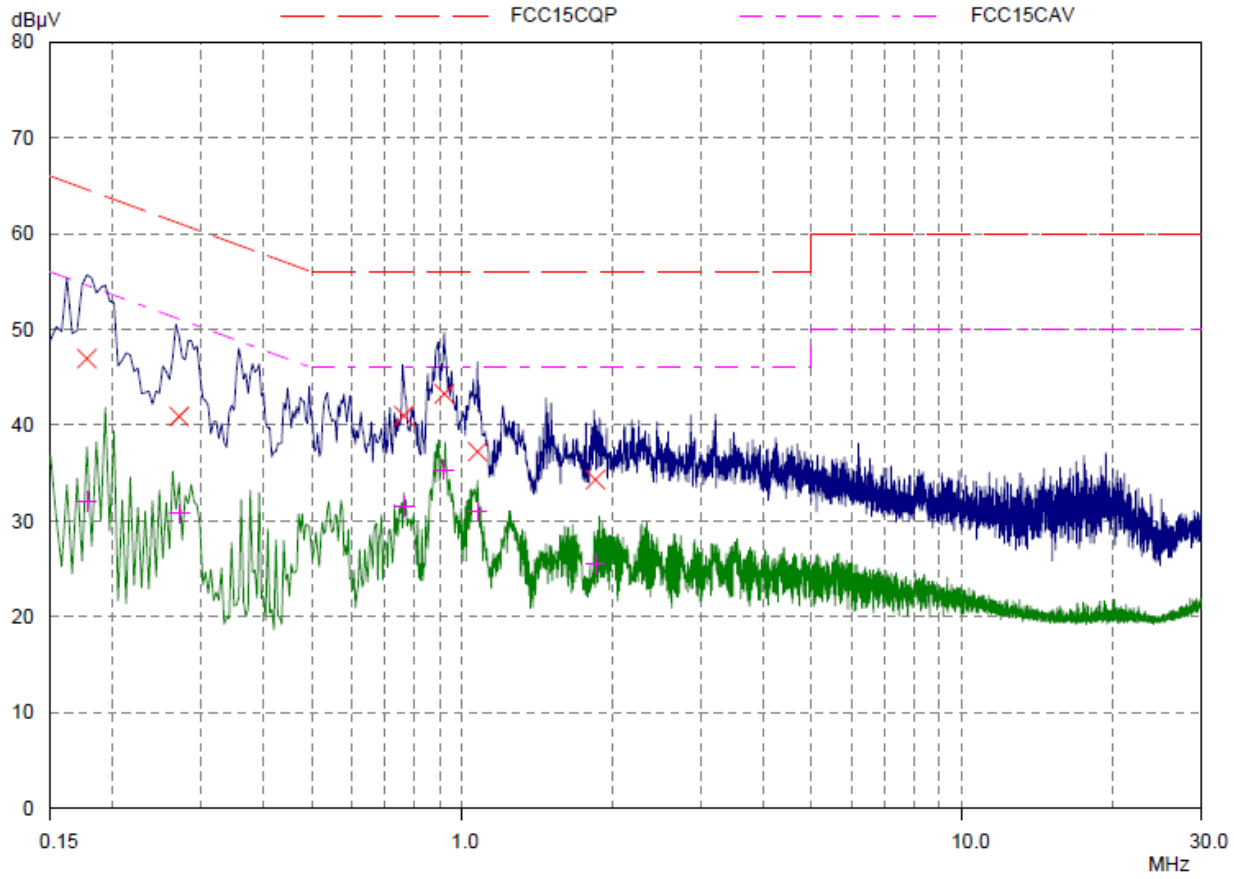


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.41562	38.68	57.54	18.86	L1	gnd
0.75156	47.02	56.00	8.98	L1	gnd
0.8414	45.94	56.00	10.06	L1	gnd
0.97812	40.44	56.00	15.56	L1	gnd
1.79062	39.50	56.00	16.50	L1	gnd
18.05625	32.60	60.00	27.40	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.41562	25.14	47.54	22.40	L1	gnd
0.75156	30.94	46.00	15.06	L1	gnd
0.8414	31.01	46.00	14.99	L1	gnd
0.97812	28.49	46.00	17.51	L1	gnd
1.79062	27.24	46.00	18.76	L1	gnd
18.05625	23.44	50.00	26.56	L1	gnd

L Line



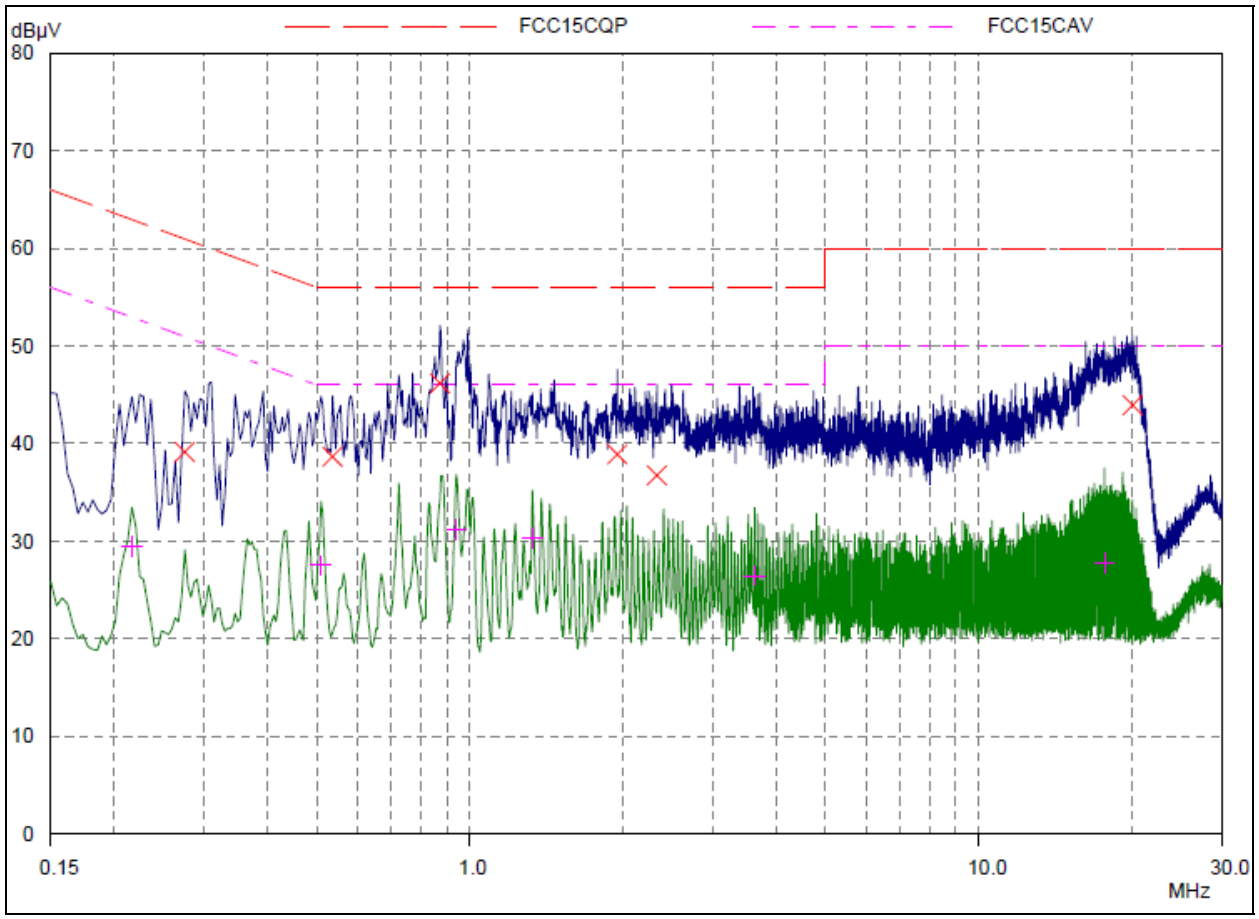
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.17734	46.94	64.61	17.67	N	gnd
0.27109	40.90	61.08	20.18	N	gnd
0.76328	41.00	56.00	15.00	N	gnd
0.91953	43.30	56.00	12.70	N	gnd
1.07187	37.24	56.00	18.76	N	gnd
1.84531	34.32	56.00	21.68	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.17734	32.08	54.61	22.53	N	gnd
0.27109	30.78	51.08	20.30	N	gnd
0.76328	31.53	46.00	14.47	N	gnd
0.91953	35.33	46.00	10.67	N	gnd
1.07187	30.94	46.00	15.06	N	gnd
1.84531	25.51	46.00	20.49	N	gnd

N Line

802.11g CH11

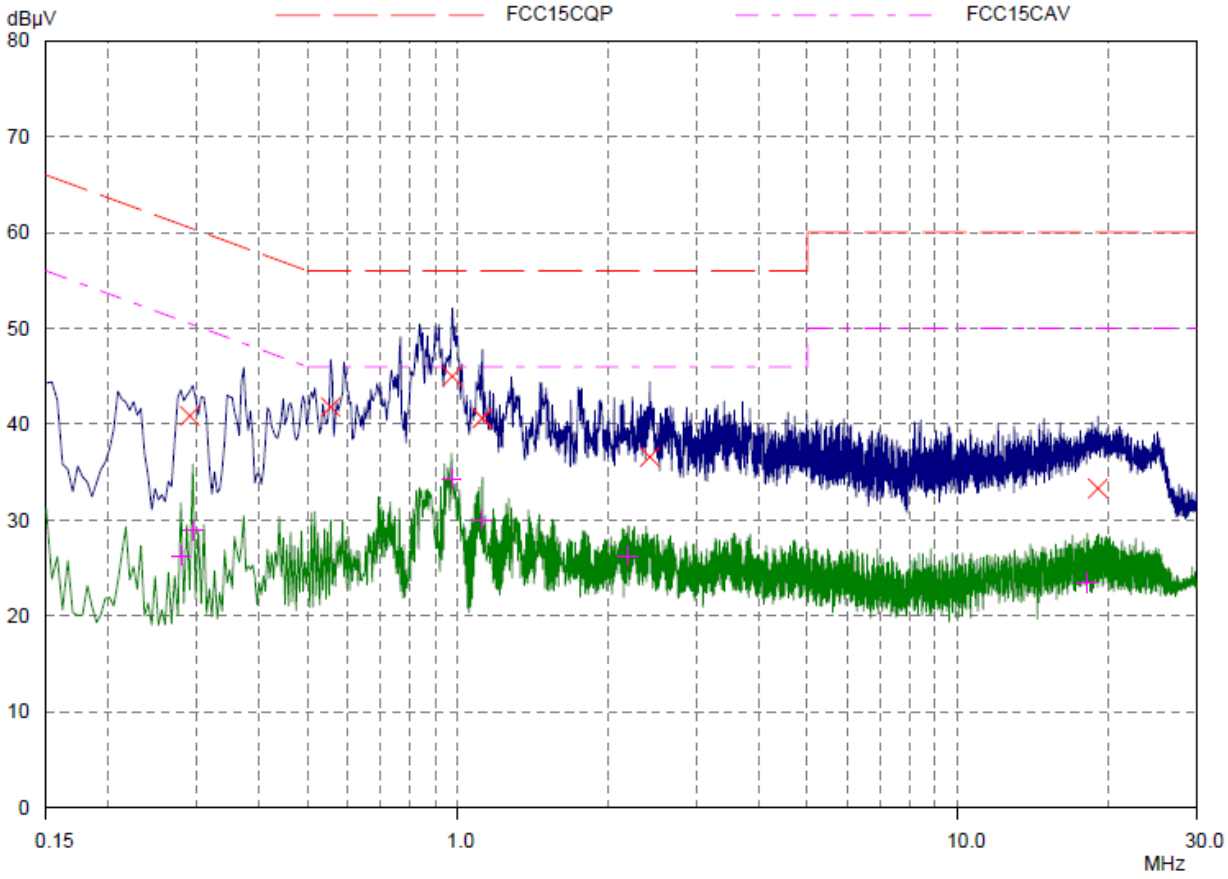


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.275	39.14	60.97	21.83	L1	gnd
0.53671	38.66	56.00	17.34	L1	gnd
0.87265	46.18	56.00	9.82	L1	gnd
1.94687	38.90	56.00	17.10	L1	gnd
2.32968	36.74	56.00	19.26	L1	gnd
20.06015	43.93	60.00	16.07	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.2164	29.49	52.96	23.47	L1	gnd
0.50937	27.53	46.00	18.47	L1	gnd
0.93906	31.16	46.00	14.84	L1	gnd
1.32578	30.31	46.00	15.69	L1	gnd
3.62656	26.45	46.00	19.55	L1	gnd
17.66562	27.77	50.00	22.23	L1	gnd

L Line



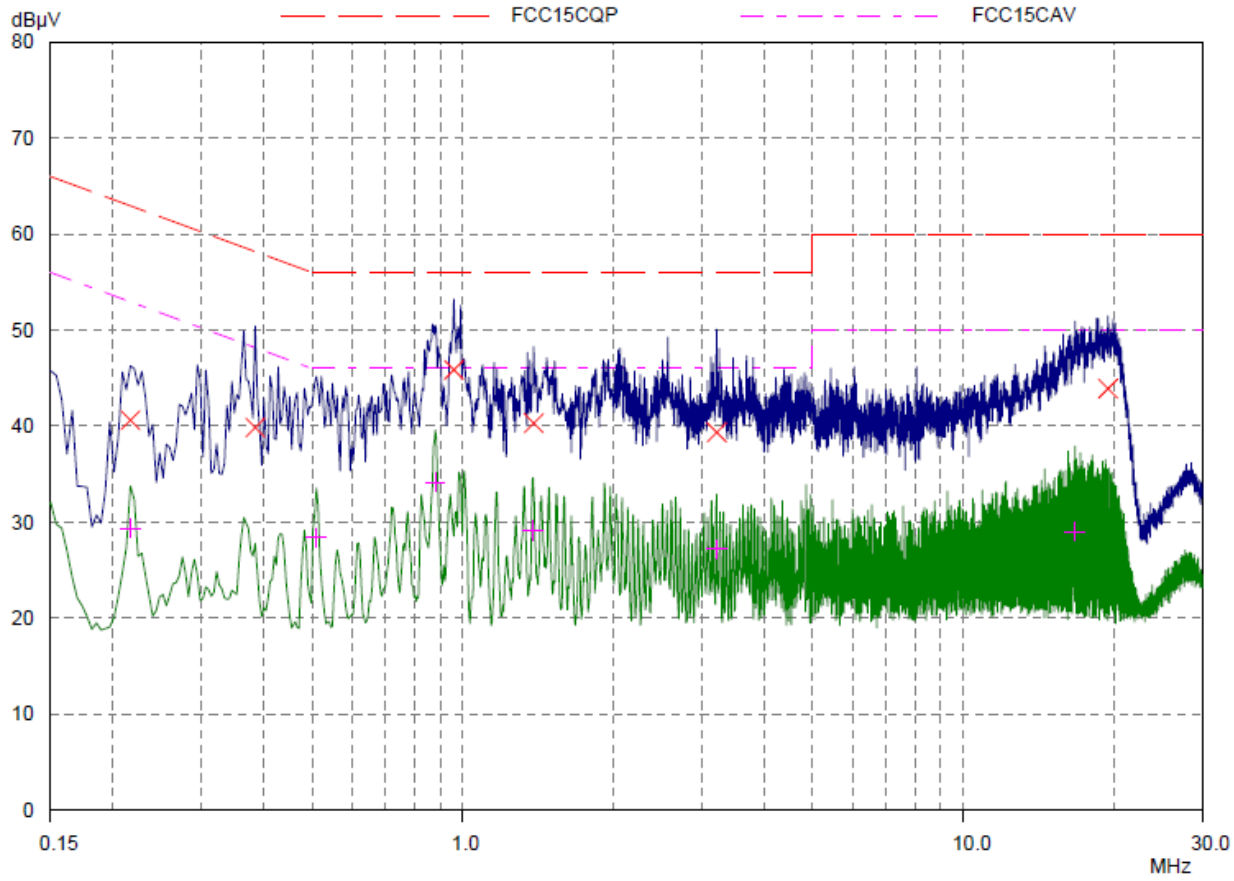
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.29062	40.88	60.51	19.63	N	gnd
0.55625	41.80	56.00	14.20	N	gnd
0.97421	45.00	56.00	11.00	N	gnd
1.11875	40.62	56.00	15.38	N	gnd
2.41953	36.60	56.00	19.40	N	gnd
19.07968	33.30	60.00	26.70	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.2789	26.32	50.85	24.53	N	gnd
0.29453	28.89	50.40	21.51	N	gnd
0.97031	34.31	46.00	11.69	N	gnd
1.11875	30.06	46.00	15.94	N	gnd
2.18906	26.26	46.00	19.74	N	gnd
18.16562	23.49	50.00	26.51	N	gnd

N Line

802.11n (HT20) CH1

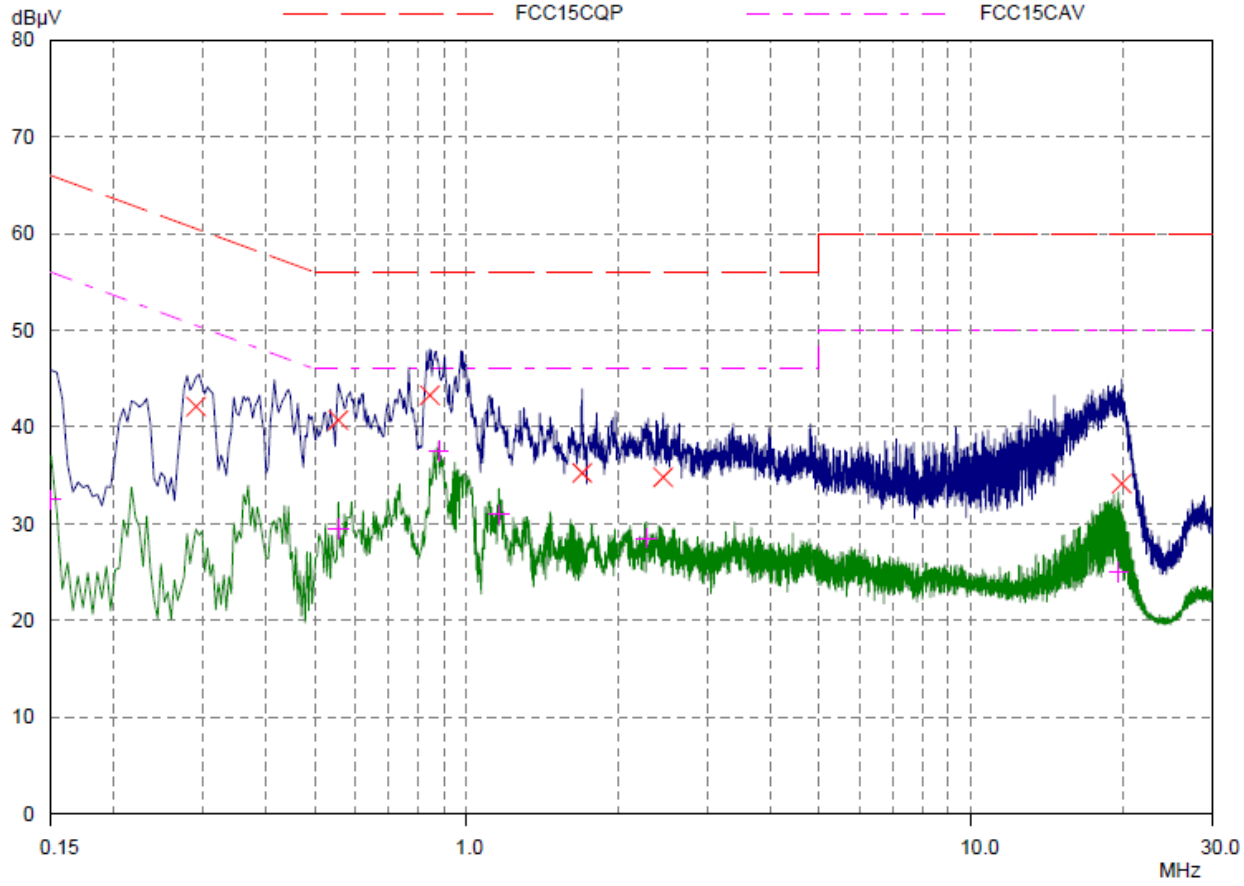


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.2164	40.62	62.96	22.34	L1	gnd
0.38437	39.84	58.18	18.34	L1	gnd
0.95859	45.86	56.00	10.14	L1	gnd
1.38437	40.32	56.00	15.68	L1	gnd
3.2125	39.34	56.00	16.66	L1	gnd
19.44296	43.90	60.00	16.10	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.2164	29.36	52.96	23.60	L1	gnd
0.50937	28.39	46.00	17.61	L1	gnd
0.88046	34.15	46.00	11.85	L1	gnd
1.38046	29.12	46.00	16.88	L1	gnd
3.2125	27.19	46.00	18.81	L1	gnd
16.71249	29.03	50.00	20.97	L1	gnd

L Line



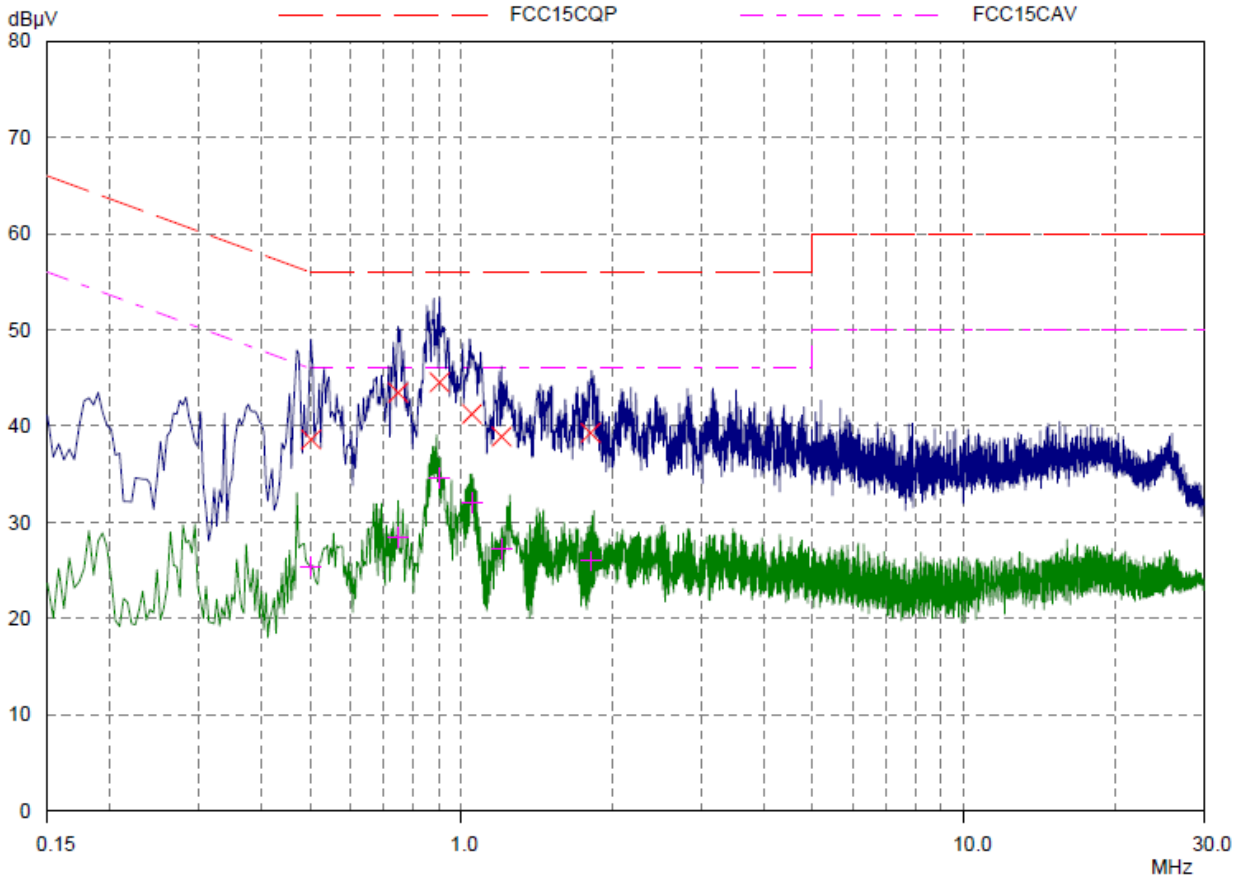
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.29062	42.12	60.51	18.39	N	gnd
0.55625	40.72	56.00	15.28	N	gnd
0.84531	43.30	56.00	12.70	N	gnd
1.69296	35.26	56.00	20.74	N	gnd
2.45078	34.82	56.00	21.18	N	gnd
19.89218	34.14	60.00	25.86	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.15	32.47	56.00	23.53	N	gnd
0.55625	29.45	46.00	16.55	N	gnd
0.88046	37.48	46.00	8.52	N	gnd
1.15781	30.94	46.00	15.06	N	gnd
2.275	28.54	46.00	17.46	N	gnd
19.59531	25.03	50.00	24.97	N	gnd

N Line

802.11n (HT20) CH6

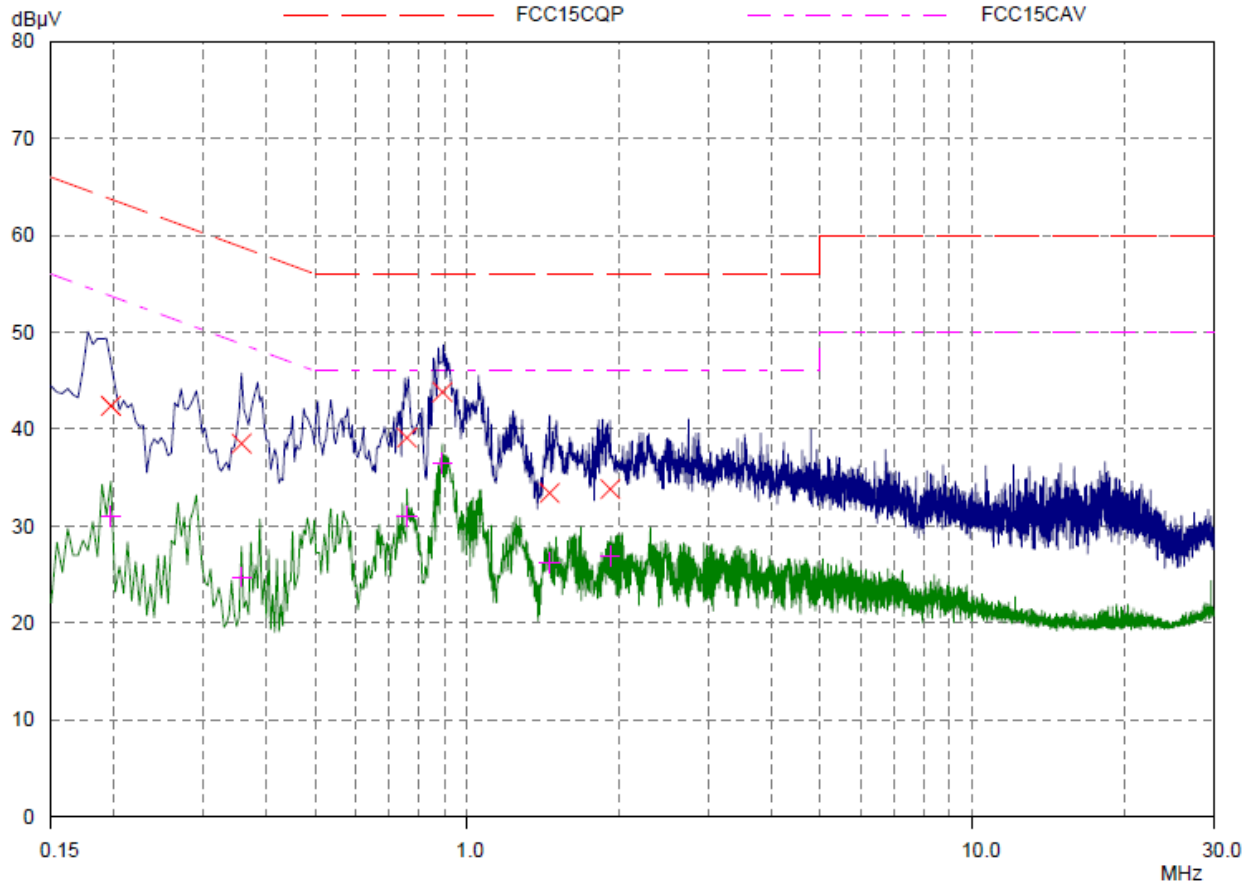


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.50156	38.62	56.00	17.38	L1	gnd
0.74765	43.48	56.00	12.52	L1	gnd
0.9039	44.54	56.00	11.46	L1	gnd
1.04843	41.26	56.00	14.74	L1	gnd
1.20078	38.90	56.00	17.10	L1	gnd
1.80625	39.28	56.00	16.72	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.50156	25.44	46.00	20.56	L1	gnd
0.74765	28.44	46.00	17.56	L1	gnd
0.9039	34.61	46.00	11.39	L1	gnd
1.04843	32.08	46.00	13.92	L1	gnd
1.20078	27.24	46.00	18.76	L1	gnd
1.80625	25.99	46.00	20.01	L1	gnd

L Line



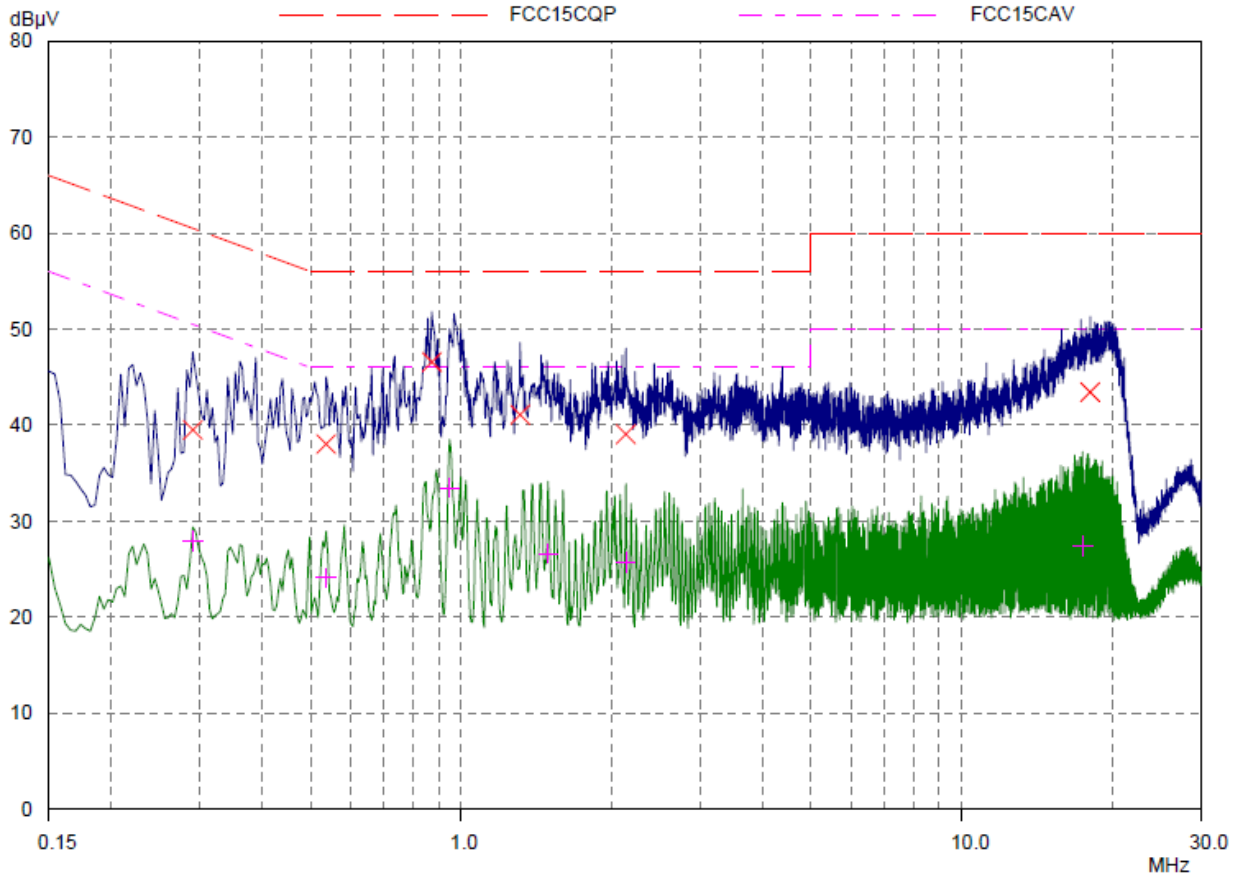
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.19687	42.40	63.74	21.34	N	gnd
0.35703	38.52	58.80	20.28	N	gnd
0.75937	39.14	56.00	16.86	N	gnd
0.89218	43.84	56.00	12.16	N	gnd
1.45468	33.42	56.00	22.58	N	gnd
1.91953	33.82	56.00	22.18	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.19687	31.01	53.74	22.73	N	gnd
0.35703	24.76	48.80	24.04	N	gnd
0.75937	31.01	46.00	14.99	N	gnd
0.89218	36.49	46.00	9.51	N	gnd
1.45468	26.19	46.00	19.81	N	gnd
1.91953	26.89	46.00	19.11	N	gnd

N Line

802.11n (HT20) CH11

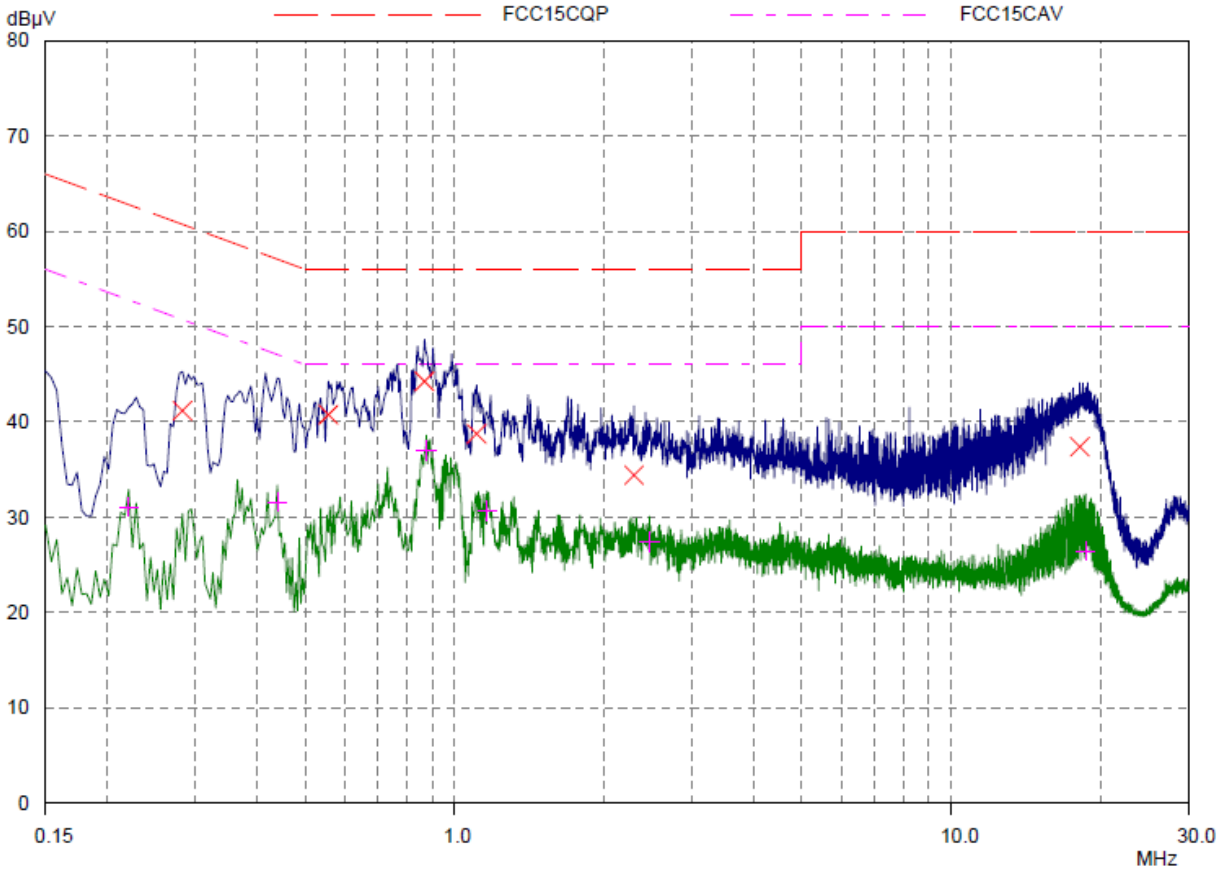


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.29062	39.50	60.51	21.01	L1	gnd
0.53671	38.04	56.00	17.96	L1	gnd
0.87265	46.58	56.00	9.42	L1	gnd
1.31015	41.10	56.00	14.90	L1	gnd
2.13046	39.06	56.00	16.94	L1	gnd
18.04843	43.44	60.00	16.56	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.29062	27.92	50.51	22.59	L1	gnd
0.53671	24.12	46.00	21.88	L1	gnd
0.94687	33.49	46.00	12.51	L1	gnd
1.48984	26.64	46.00	19.36	L1	gnd
2.13046	25.72	46.00	20.28	L1	gnd
17.43515	27.47	50.00	22.53	L1	gnd

L Line



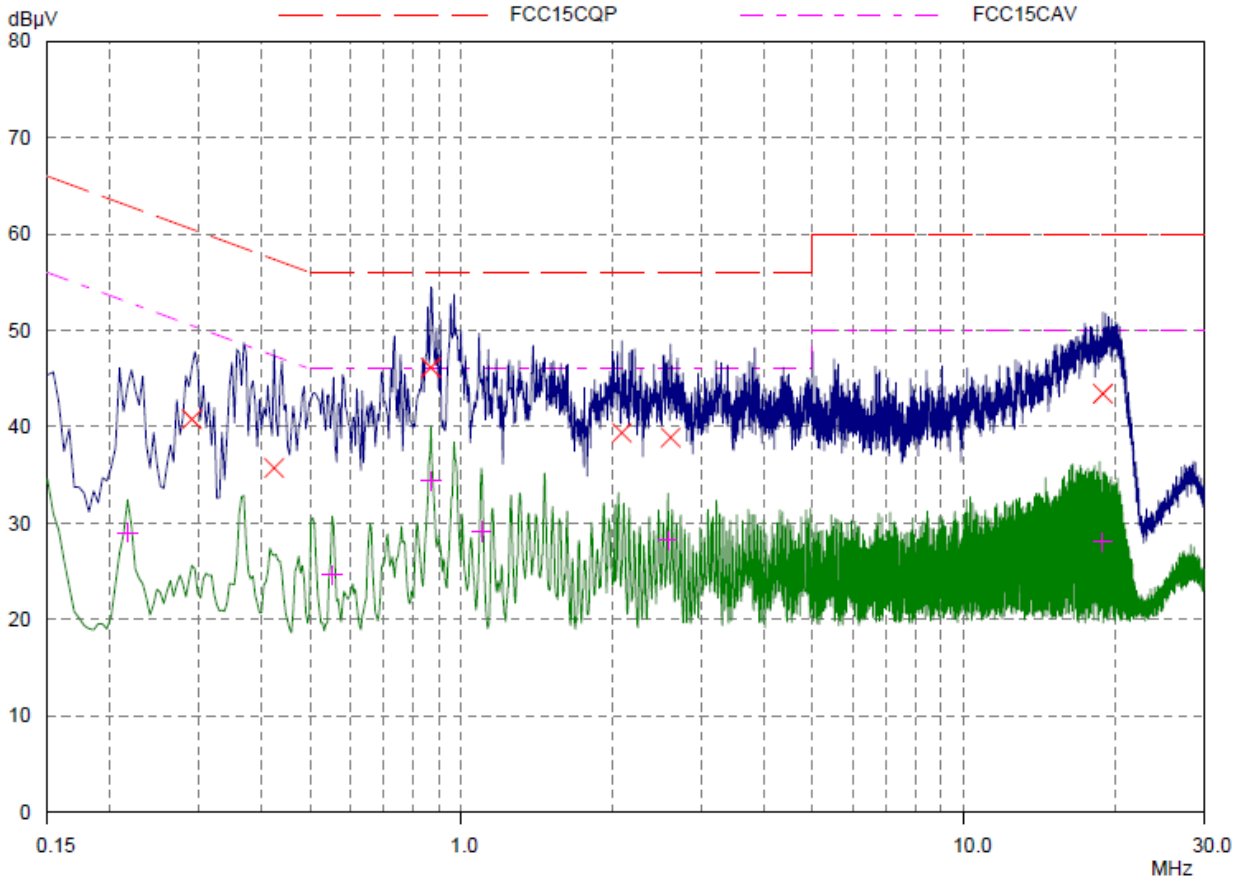
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.28281	41.16	60.73	19.57	N	gnd
0.55625	40.76	56.00	15.24	N	gnd
0.86875	44.26	56.00	11.74	N	gnd
1.10703	38.76	56.00	17.24	N	gnd
2.29453	34.40	56.00	21.60	N	gnd
18.13437	37.41	60.00	22.59	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.22031	31.09	52.81	21.72	N	gnd
0.43906	31.60	47.08	15.48	N	gnd
0.87656	37.03	46.00	8.97	N	gnd
1.16171	30.71	46.00	15.29	N	gnd
2.4664	27.47	46.00	18.53	N	gnd
18.63046	26.48	50.00	23.52	N	gnd

N Line

802.11n (HT40) CH3

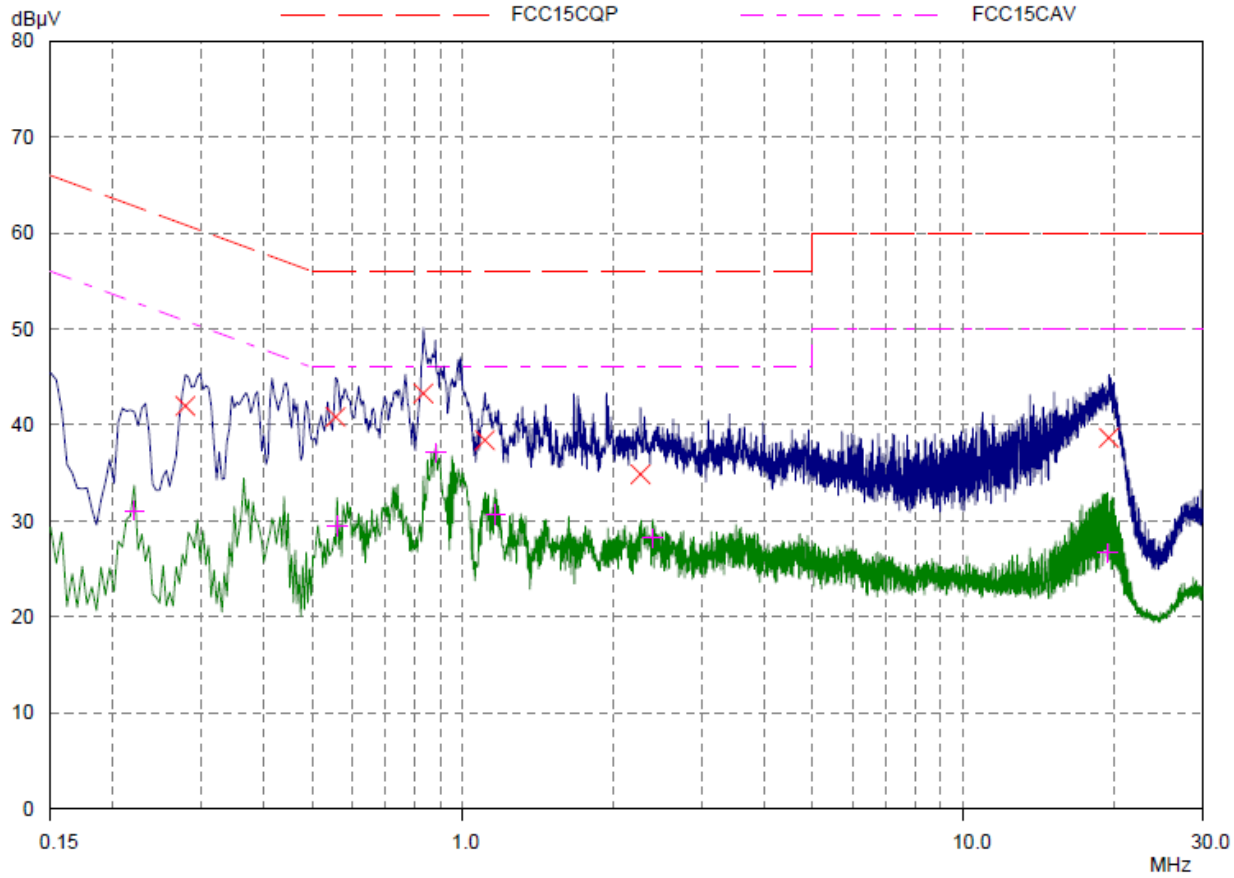


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.29062	40.78	60.51	19.73	L1	gnd
0.42343	35.72	57.38	21.66	L1	gnd
0.86875	46.14	56.00	9.86	L1	gnd
2.08359	39.36	56.00	16.64	L1	gnd
2.60703	38.88	56.00	17.12	L1	gnd
18.89609	43.42	60.00	16.58	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.2164	29.03	52.96	23.93	L1	gnd
0.55234	24.61	46.00	21.39	L1	gnd
0.86875	34.36	46.00	11.64	L1	gnd
1.09531	29.12	46.00	16.88	L1	gnd
2.57578	28.23	46.00	17.77	L1	gnd
18.89609	28.03	50.00	21.97	L1	gnd

L Line



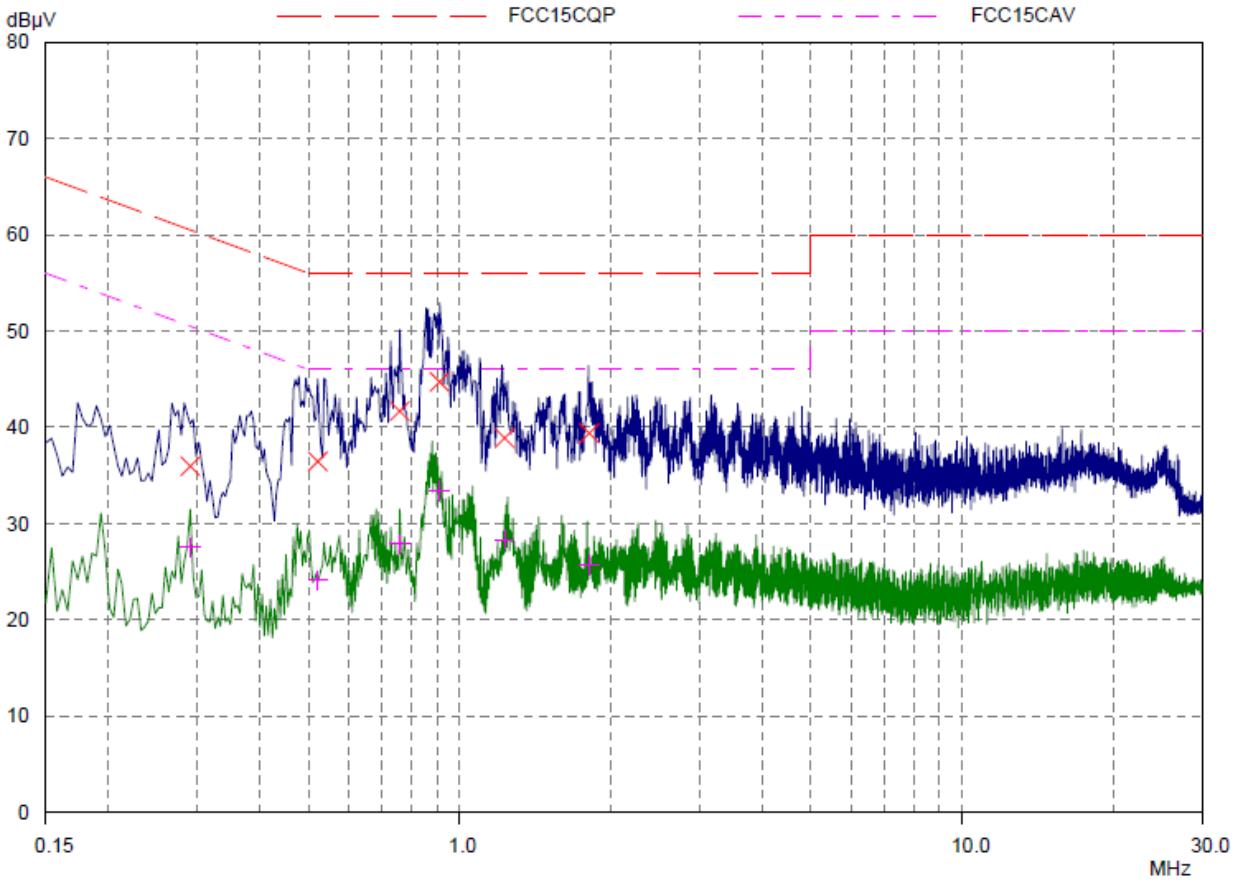
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.2789	41.98	60.85	18.87	N	gnd
0.55625	40.84	56.00	15.16	N	gnd
0.83359	43.28	56.00	12.72	N	gnd
1.10703	38.40	56.00	17.60	N	gnd
2.26328	34.86	56.00	21.14	N	gnd
19.5289	38.65	60.00	21.35	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.22031	31.09	52.81	21.72	N	gnd
0.56015	29.45	46.00	16.55	N	gnd
0.88437	37.11	46.00	8.89	N	gnd
1.16171	30.71	46.00	15.29	N	gnd
2.39609	28.23	46.00	17.77	N	gnd
19.40781	26.67	50.00	23.33	N	gnd

N Line

802.11n (HT40) CH6

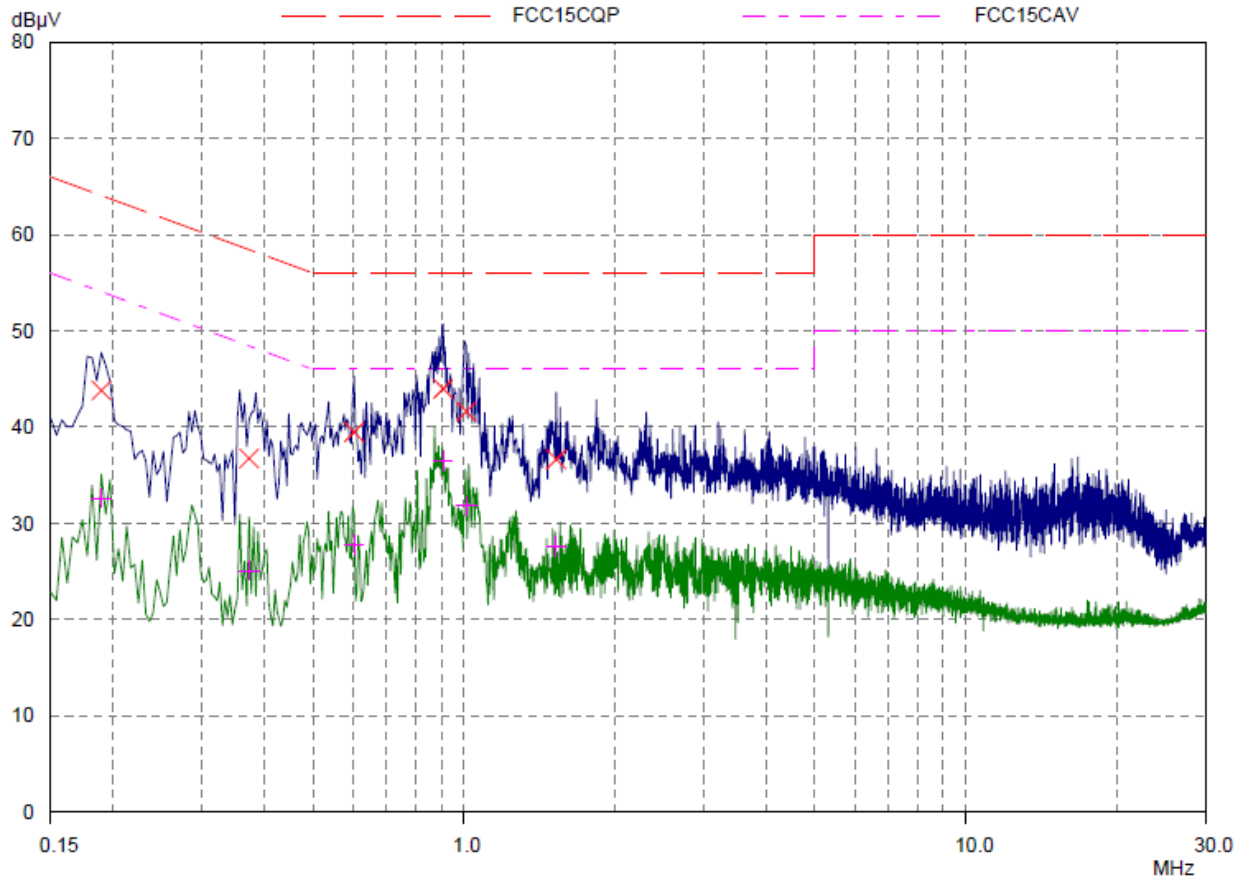


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.29062	35.96	60.51	24.55	L1	gnd
0.52109	36.46	56.00	19.54	L1	gnd
0.75937	41.68	56.00	14.32	L1	gnd
0.91171	44.72	56.00	11.28	L1	gnd
1.22812	38.88	56.00	17.12	L1	gnd
1.81015	39.38	56.00	16.62	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.29062	27.53	50.51	22.98	L1	gnd
0.52109	24.12	46.00	21.88	L1	gnd
0.75937	27.86	46.00	18.14	L1	gnd
0.91171	33.38	46.00	12.62	L1	gnd
1.22812	28.34	46.00	17.66	L1	gnd
1.81015	25.72	46.00	20.28	L1	gnd

L Line



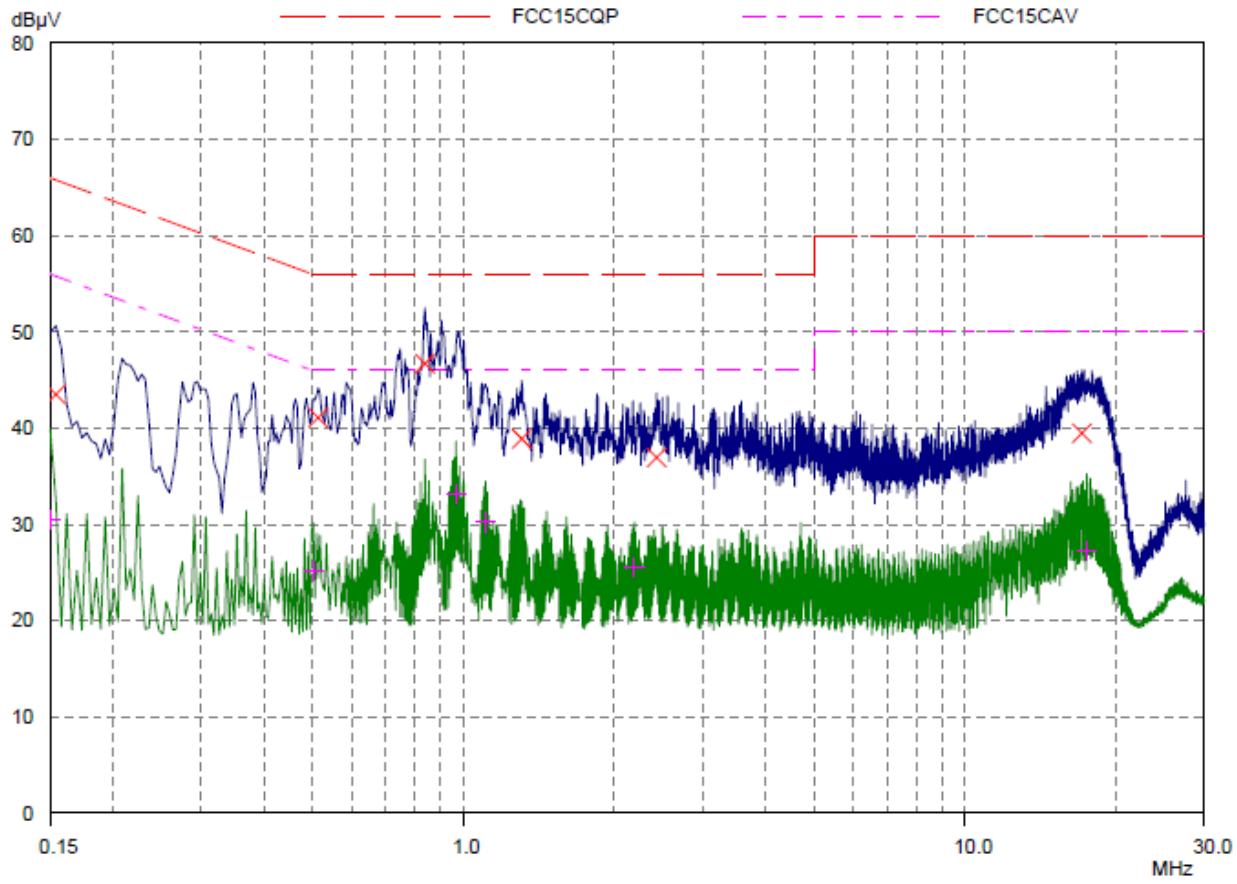
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.18906	43.82	64.08	20.26	N	gnd
0.37265	36.74	58.44	21.70	N	gnd
0.60312	39.48	56.00	16.52	N	gnd
0.90781	43.98	56.00	12.02	N	gnd
1.00937	41.62	56.00	14.38	N	gnd
1.525	36.66	56.00	19.34	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.18906	32.60	54.08	21.48	N	gnd
0.37265	25.07	48.44	23.37	N	gnd
0.60312	27.75	46.00	18.25	N	gnd
0.90781	36.49	46.00	9.51	N	gnd
1.00937	31.81	46.00	14.19	N	gnd
1.525	27.59	46.00	18.41	N	gnd

N Line

802.11n (HT40) CH9

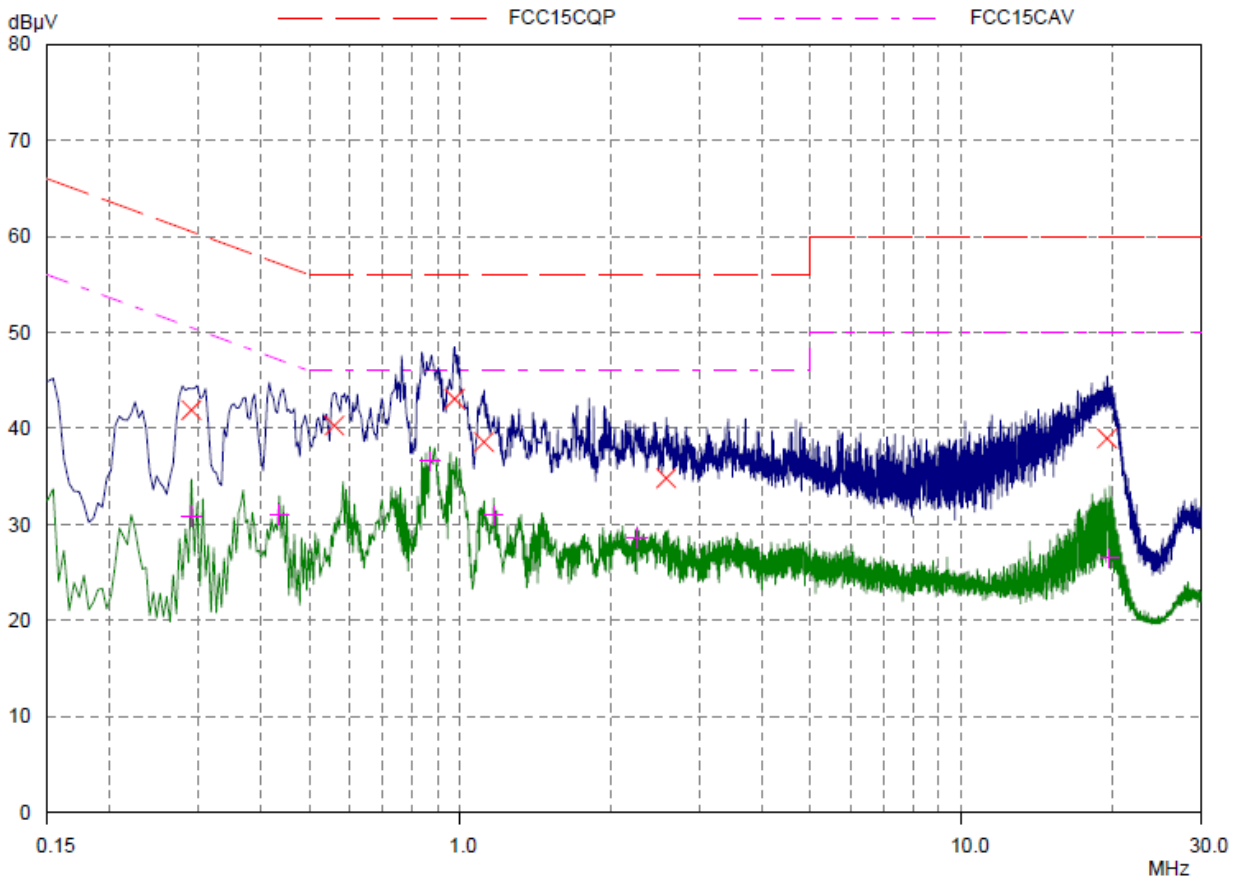


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.1539	43.50	65.79	22.29	L1	gnd
0.51327	41.10	56.00	14.90	L1	gnd
0.8375	46.70	56.00	9.30	L1	gnd
1.30625	38.90	56.00	17.10	L1	gnd
2.42734	36.96	56.00	19.04	L1	gnd
17.11484	39.48	60.00	20.52	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.15	30.55	56.00	25.45	L1	gnd
0.50156	25.14	46.00	20.86	L1	gnd
0.9664	33.21	46.00	12.79	L1	gnd
1.10703	30.22	46.00	15.78	L1	gnd
2.19296	25.58	46.00	20.42	L1	gnd
17.50937	27.29	50.00	22.71	L1	gnd

L Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase -	PE -
0.29062	41.92	60.51	18.59	N	gnd
0.56015	40.32	56.00	15.68	N	gnd
0.97421	43.08	56.00	12.92	N	gnd
1.11484	38.58	56.00	17.42	N	gnd
2.57578	34.82	56.00	21.18	N	gnd
19.52109	38.95	60.00	21.05	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase -	PE -
0.29062	30.86	50.51	19.65	N	gnd
0.43515	31.01	47.15	16.14	N	gnd
0.86875	36.57	46.00	9.43	N	gnd
1.16562	30.94	46.00	15.06	N	gnd
2.25156	28.59	46.00	17.41	N	gnd
19.77109	26.50	50.00	23.50	N	gnd

N Line

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	FMZB1516	SCHWARZBECK	237	2014-12-06	2017-12-05
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	2014-12-18	2015-12-17
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	2014-12-18	2015-12-17
RF Cable	SMA 15cm	Agilent	0001	2015-11-09	2016-01-08

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

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance

Front Side

Back Side

a: EUT

b: Battery

Picture 1 Constituents of EUT

A.2 Test Setup

30M Hz-1GHz

Above 1GHz

Picture 2 Radiated Emission Test Setup

Picture 3 Conducted Emission Test Setup