



RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-ZTEN9131
Product LTE/WCDMA/GSM /CDMA
Multi -Mode Digital Mobile Phone
Model N9131
Report No. RXA1603-0039RF02R1
Issue Date April 28, 2016

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

Peng Tao

Performed by: Peng Tao

Lingling Kang

Reviewed by: Lingling Kang

Kai Xu

Approved by: Kai Xu



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TABLE OF CONTENT

- 1. Test Laboratory4
 - 1.1. Notes of the test report4
 - 1.2. Test facility4
 - 1.3. Testing Location.....5
- 2. General Description of Equipment under Test6
- 3. Applied Standards.....7
- 4. Test Configuration.....8
- 5. Test Case Results.....9
 - 5.1. Peak Power Output –Conducted9
 - 5.2. 6dB Bandwidth.....11
 - 5.3. Band Edge15
 - 5.4. Power Spectral Density18
 - 5.5. Spurious RF Conducted Emissions.....22
 - 5.6. Radiated Emissions in the Restricted Band28
 - 5.7. Radiates Emission32
 - 5.8. Conducted Emission83
- 6. Main Test Instruments.....92



Summary of measurement results

Number	Summary of measurements of results	Clause in FCC rules	Verdict
1	Maximum peak conducted output power	15.247(b)(3)	PASS
2	6 dB bandwidth	15.247(a)(2)	PASS
3	Maximum power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Radiated Emissions in restricted frequency bands	15.247(d),15.205,15.209	PASS
7	Radiated Emissions	15.247(d),15.205,15.209	PASS
8	Conducted Emissions	15.207	PASS
Date of Testing: March 21, 2016~ April 11, 2016			



1. Test Laboratory

1.1. Notes of the test report

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

1.2. Test facility

CNAS (accreditation number:L2264)

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

FCC (recognition number is 428261)

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

IC (recognition number is 8510A)

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

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

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

A2LA(Certificate Number: 3857.01)

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



1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City: Shanghai
Post code: 201201
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	ZTE Coporation
Applicant address	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District Shenzhen, Guangdong, P.R.China
Manufacturer	ZTE Coporation
Manufacturer address	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District Shenzhen, Guangdong, P.R.China

General information

Model:	N9131
MEID:	99000680000315
Hardware Version:	cuzA
Software Version:	N9131V1.0.0B01
Power Supply:	Battery/AC adapter
Antenna Type:	Internal Antenna
Test Mode:	Bluetooth(Low Energy) 802.11b 802.11g, 802.11n(HT20);
Modulation Type:	BLE :GFSK 802.11b: DSSS; 802.11g/n(HT20): OFDM
Max. Conducted Power	Wi-Fi 2.4G :15.17dBm BLE : 10.06 dBm
Operating Frequency Range(s)	2400 ~ 2483.5 MHz
EUT Accessory	
Battery	Manufacturer: SCUD(FUJIAN)ELECTRONICS Model: Li3922T44P6h903546 Power Rating: DC 3.84V, Li-ion
Adapter	Manufacturer: RUIJING Model: STC-A508A-Z M5
<p>Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.</p>	



3. Applied Standards

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

FCC CFR47 Part 15C (2015) Radio Frequency Devices

ANSI C63.10 (2013)

KDB 558074 D01 DTS Meas Guidance v03r04

4. Test Configuration

Test Mode

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

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

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

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

Worst-case data rates are shown as following table.

Band	Data Rate
Bluetooth(Low Energy)	1Mbps
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

Test channel are shown as following table.

Test items	802.11b			802.11g			802.11n HT20			Bluetooth (Low Energy)		
	CH1	CH6	CH11	CH1	CH6	CH11	CH1	CH6	CH11	CH0	CH19	CH39
Maximum peak conducted output power	○	○	○	○	○	○	○	○	○	○	○	○
6 dB bandwidth	○	○	○	○	○	○	○	○	○	○	○	○
Maximum power spectral density	○	○	○	○	○	○	○	○	○	○	○	○
Band Edge	○	--	○	○	--	○	○	--	○	○	--	○
Radiated Emissions in restricted frequency bands	○	--	○	○	--	○	○	--	○	○	--	○
Spurious RF Conducted Emissions	○	○	○	○	○	○	○	○	○	○	○	○
Radiated Emissions	○	○	○	○	○	○	○	○	○	○	○	○
Conducted Emissions	○	○	○	○	○	○	○	○	○	○	○	○

5. Test Case Results

5.1. Peak Power Output –Conducted

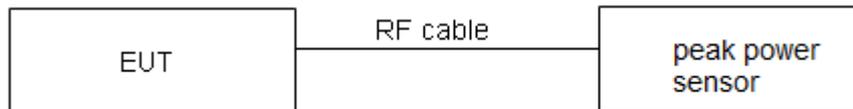
Ambient condition

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

Methods of Measurement

During the process of the testing, The EUT was connected to the peak power sensor with a known loss. The EUT is max power transmission with proper modulation. We use Maximum Peak Conducted Output Power Level Method in KDB 558074 D01 for this test.

Test Setup



Limits

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

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

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

**Test Results**

Network Standards	Channel/Carrier frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Conclusion
802.11b	1/2412	14.02	30	PASS
	6/2437	15.17	30	PASS
	11/2462	14.01	30	PASS
802.11g	1/2412	11.35	30	PASS
	6/2437	12.23	30	PASS
	11/2462	11.49	30	PASS
802.11n HT20	1/2412	9.12	30	PASS
	6/2437	10.40	30	PASS
	11/2462	10.07	30	PASS
Bluetooth (Low Energy)	0/2402	7.40	30	PASS
	19/2440	10.06	30	PASS
	39/2480	9.72	30	PASS

5.2. 6dB Bandwidth

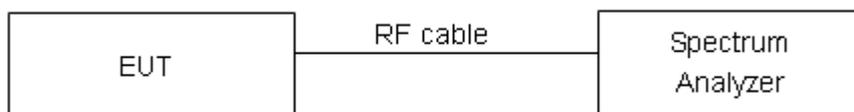
Ambient condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer.

Test Setup



Limits

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

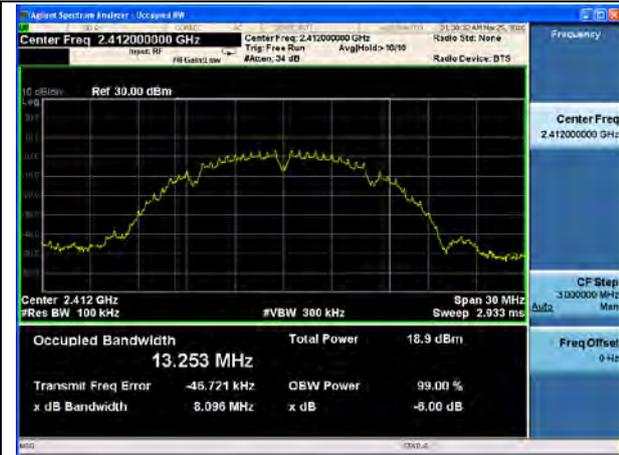
minimum 6 dB bandwidth	≥ 500 kHz
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Measurement Uncertainty

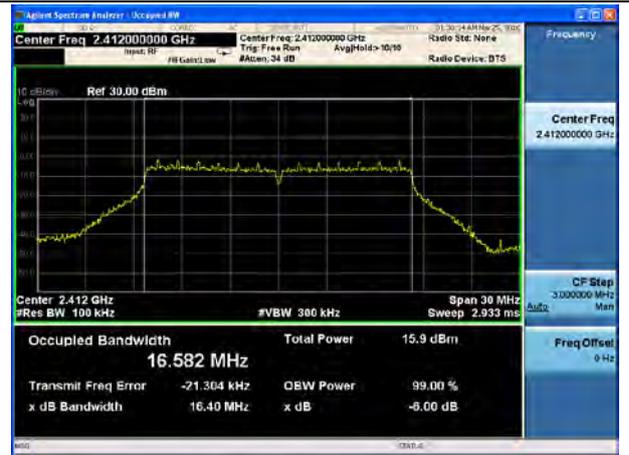
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

**Test Results:**

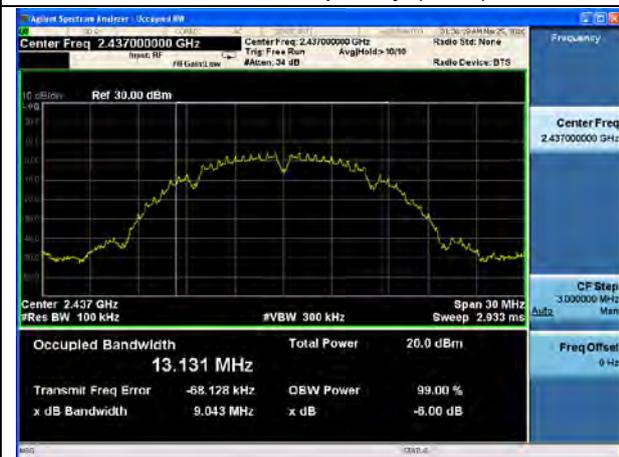
Network Standards	Carrier frequency (MHz)	Minimum 6 dB bandwidth (MHz)	Limit(kHz)	Conclusion
802.11b	2412	8.0960	500	PASS
	2437	9.0430	500	PASS
	2462	8.5830	500	PASS
802.11g	2412	16.4000	500	PASS
	2437	16.3800	500	PASS
	2462	16.3500	500	PASS
802.11n HT20	2412	17.5900	500	PASS
	2437	17.5800	500	PASS
	2462	17.2500	500	PASS
Bluetooth (Low Energy)	2402	0.6691	500	PASS
	2440	0.6712	500	PASS
	2480	0.6702	500	PASS



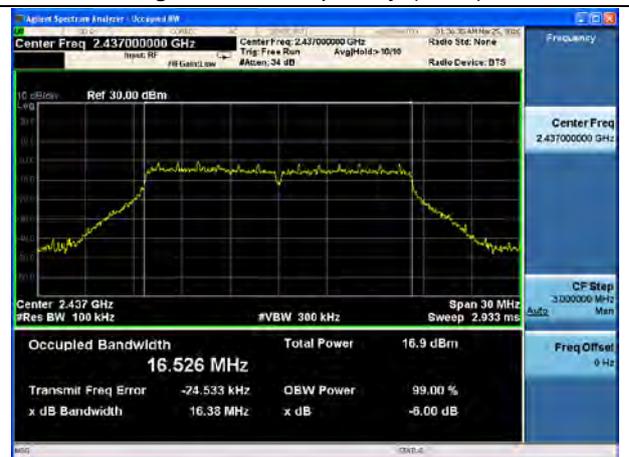
802.11b, Carrier frequency (MHz): 2412



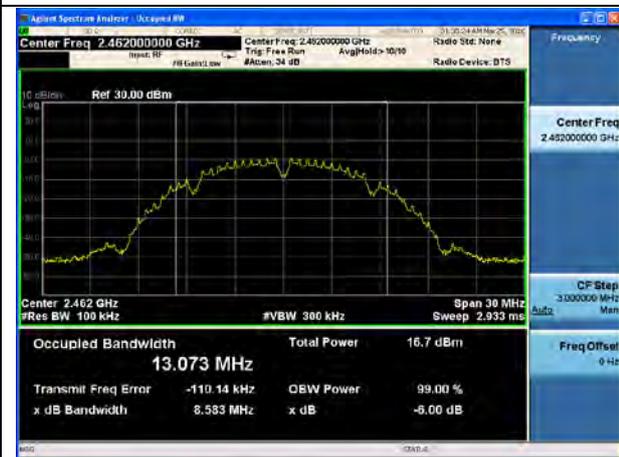
802.11g, Carrier frequency (MHz): 2412



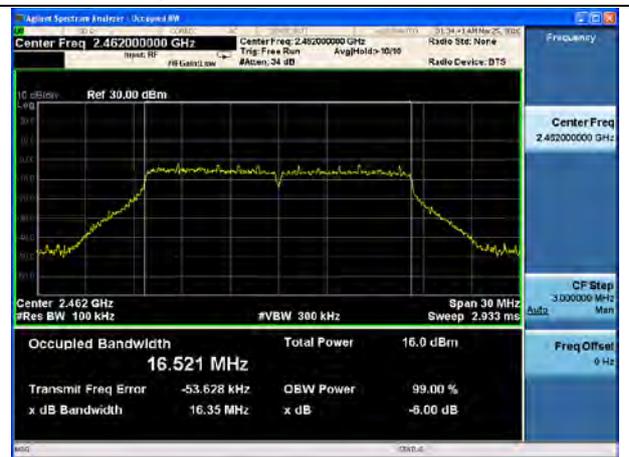
802.11b, Carrier frequency (MHz): 2437



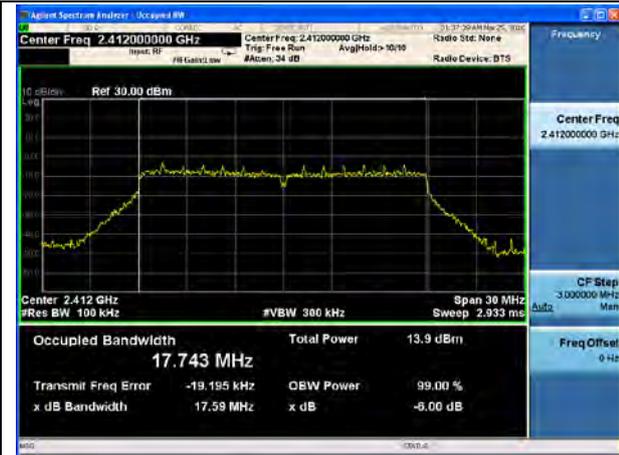
802.11g, Carrier frequency (MHz): 2437



802.11b, Carrier frequency (MHz): 2462



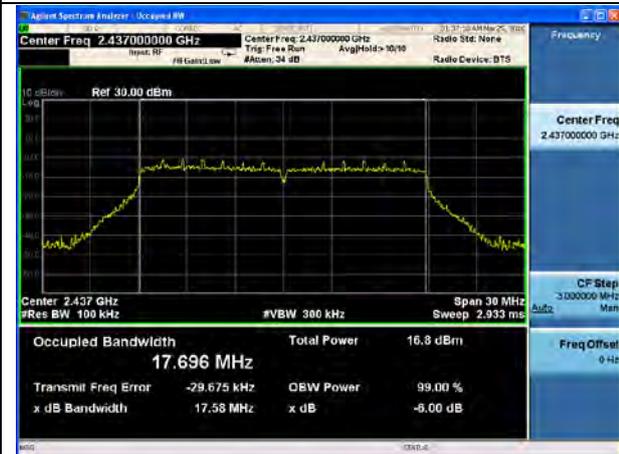
802.11g, Carrier frequency (MHz): 2462



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



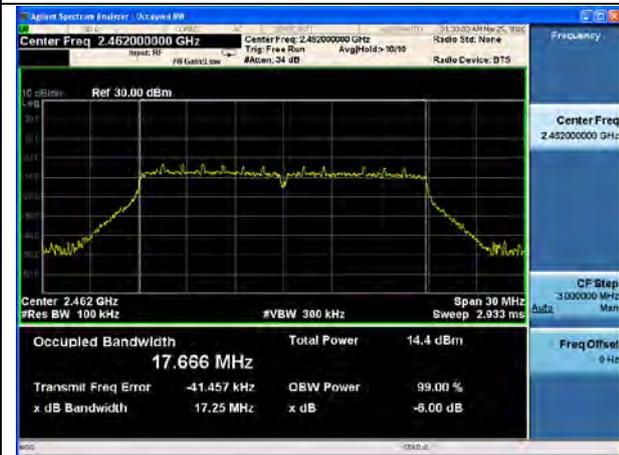
BLE Carrier frequency (MHz): 2402



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



BLE Carrier frequency (MHz): 2440



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



BLE Carrier frequency (MHz): 2480

5.3. Band Edge

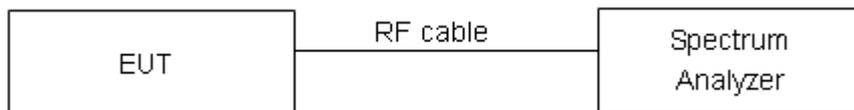
Ambient condition

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

Method of Measurement

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

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.”

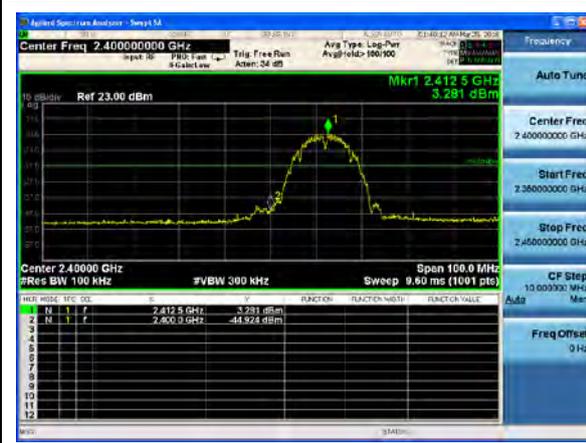
Measurement Uncertainty

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

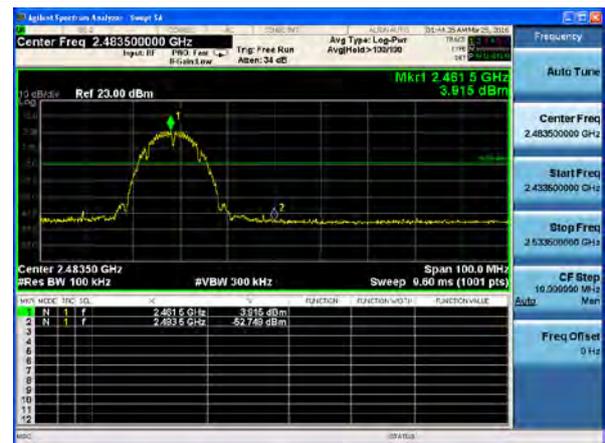
Frequency	Uncertainty
2GHz-3GHz	1.407 dB



Test Results: PASS



802.11b, Channel/Frequency: 1/2412



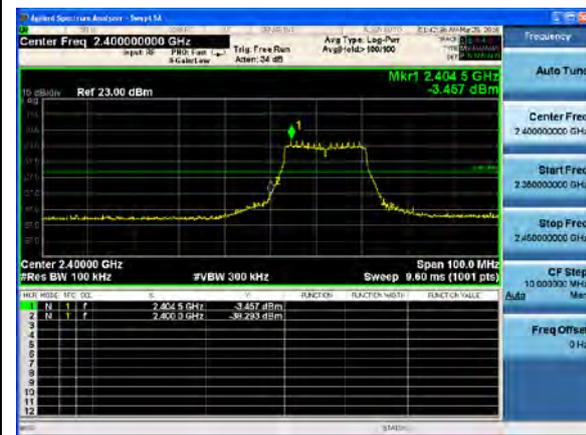
802.11b, Channel/Frequency: 11/2462



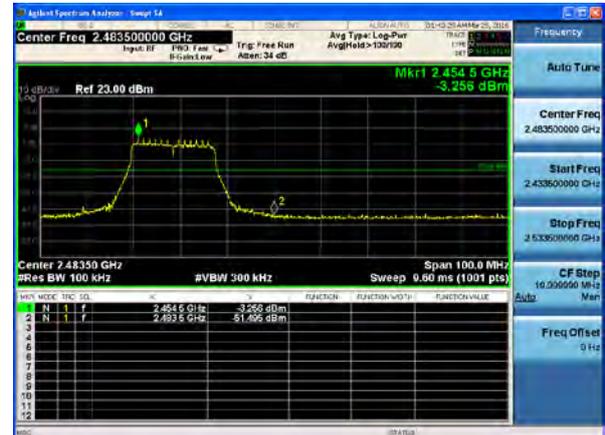
802.11g, Channel/Frequency: 1/2412



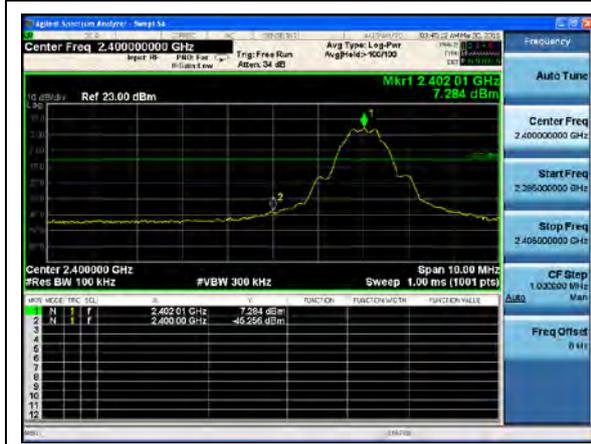
802.11g, Channel/Frequency: 11/2462



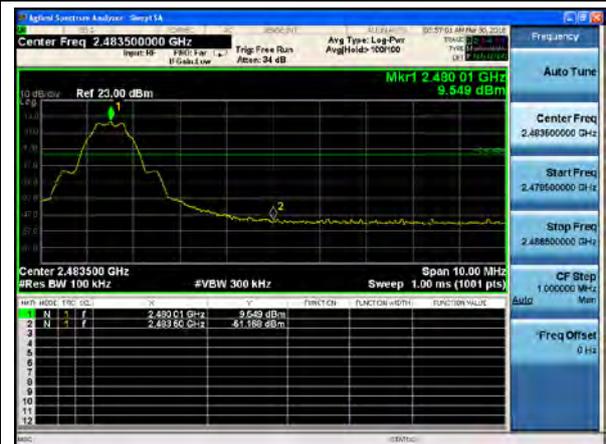
802.11n(HT20), Channel/Frequency: 1/2412



802.11n(HT20), Channel/Frequency: 11/2462



BLE, Channel/Frequency: 0/2402



BLE, Channel/Frequency: 39/2480

5.4. Power Spectral Density

Ambient condition

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

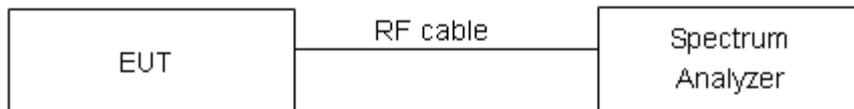
Method of Measurement

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

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

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

Test setup



Limits

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

Limits	≤ 8 dBm / 3kHz
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Measurement Uncertainty

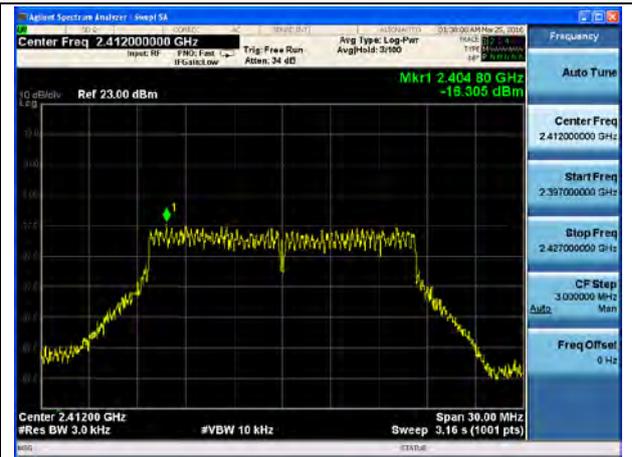
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

**Test Results:**

Network Standards	Channel Number	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-11.806	8	PASS
	6	-8.555	8	PASS
	11	-13.202	8	PASS
802.11g	1	-16.305	8	PASS
	6	-14.698	8	PASS
	11	-14.588	8	PASS
802.11n HT20	1	-19.294	8	PASS
	6	-15.454	8	PASS
	11	-18.133	8	PASS
Bluetooth (Low Energy)	0	-7.941	8	PASS
	19	-5.266	8	PASS
	39	-5.626	8	PASS



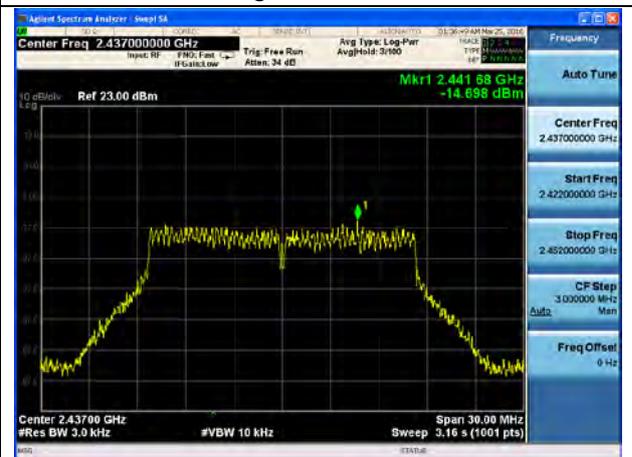
802.11b, Channel No.: 1



802.11g, Channel No.: 1



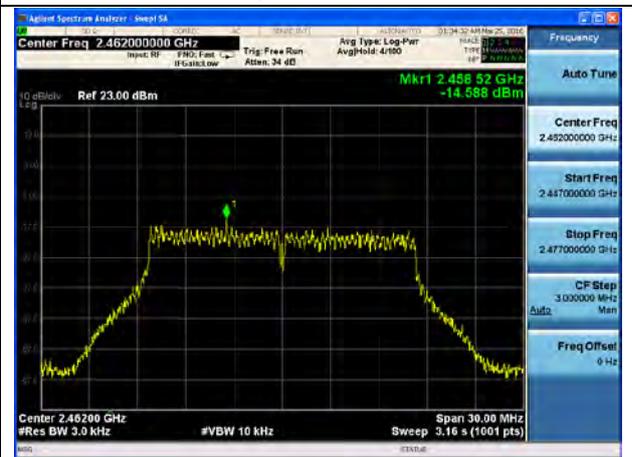
802.11b, Channel No.: 6



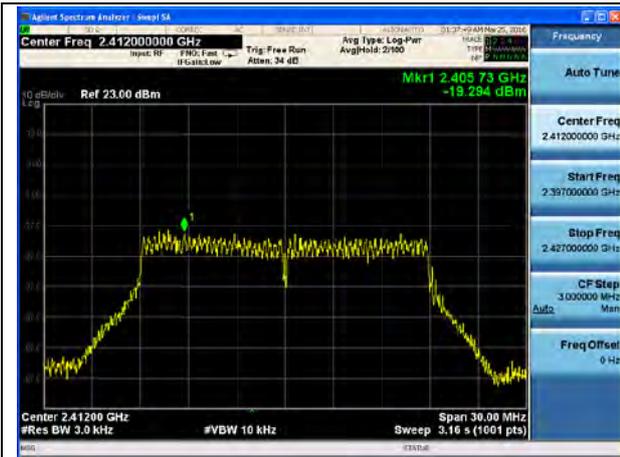
802.11g, Channel No.: 6



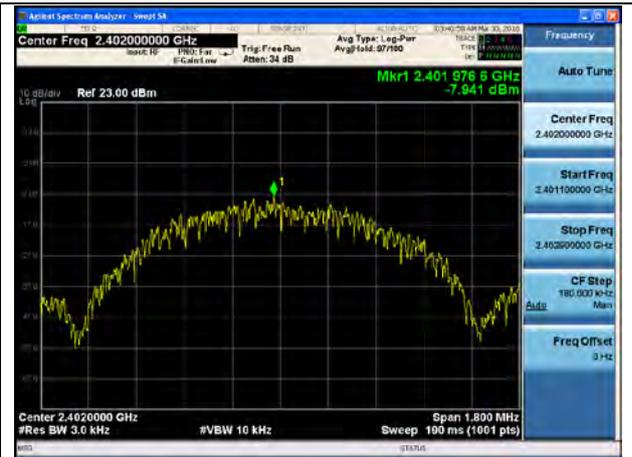
802.11b, Channel No.: 11



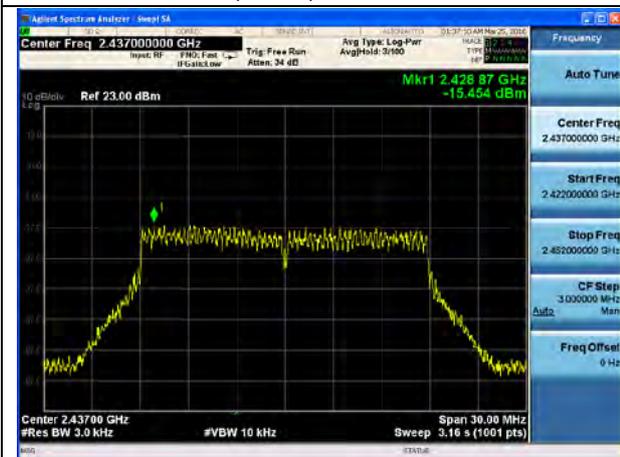
802.11g, Channel No.: 11



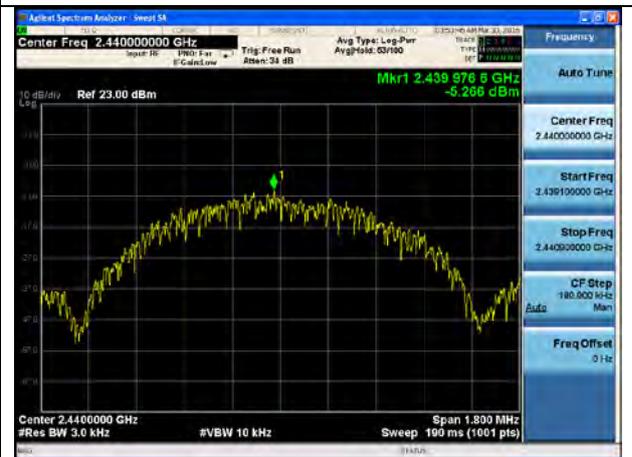
802.11n(HT20), Channel No. 1



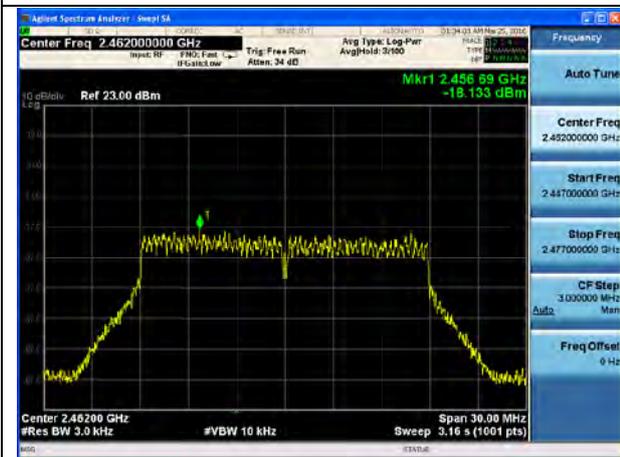
BLE, Channel No.: 0



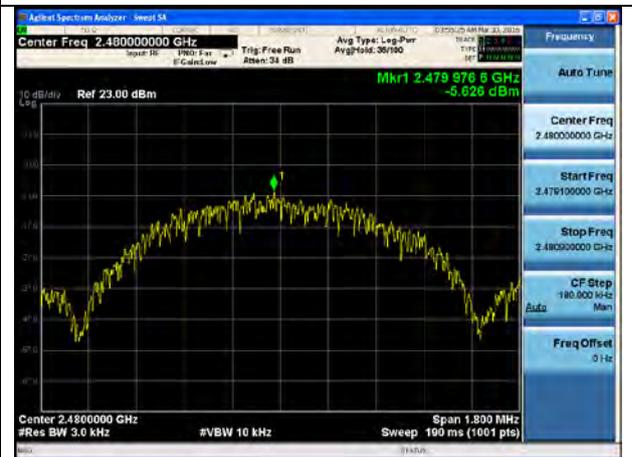
802.11n(HT20), Channel No. 6



BLE, Channel No.: 19



802.11n(HT20), Channel No. 11



BLE, Channel No.: 39

5.5. Spurious RF Conducted Emissions

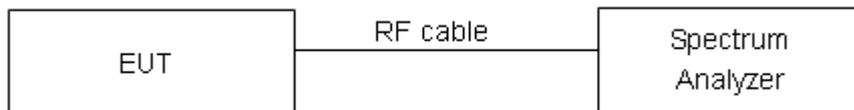
Ambient condition

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

Method of Measurement

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

The test is in transmitting mode.



Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.”

Network Standards	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	7.213	-12.787
	2437	-0.241	-20.241
	2462	2.977	-17.023
802.11g	2412	0.807	-19.193
	2437	-4.718	-24.718
	2462	-2.766	-22.766
802.11n HT20	2412	-1.103	-21.103
	2437	-4.95	-24.95
	2462	-2.071	-22.071
Bluetooth (Low Energy)	2402	15.094	-4.906
	2440	4.222	-15.778
	2480	6.966	-13.034

**Measurement Uncertainty**

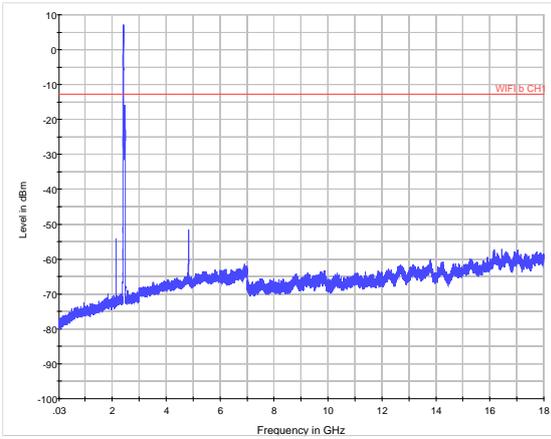
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

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

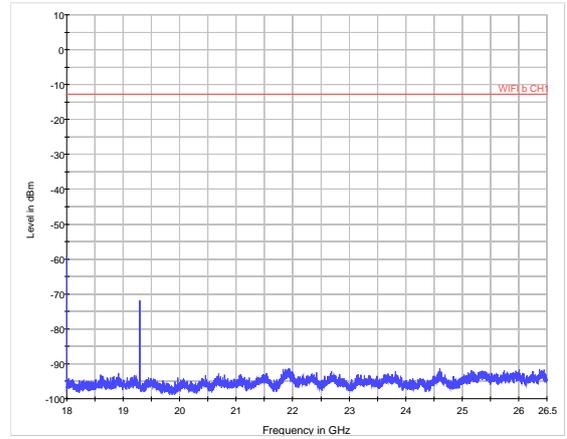


Test Results:

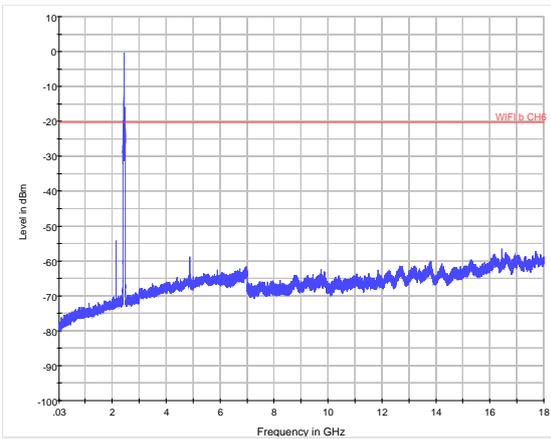
If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.
The signal beyond the limit is carrier.



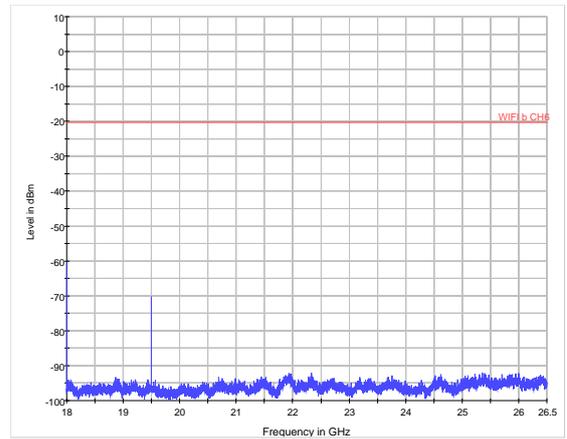
802.11b CH1 30MHz to 18GHz



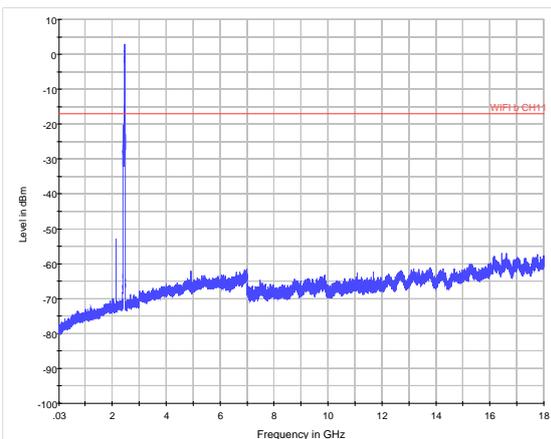
802.11b CH1 18GHz to 26.5GHz



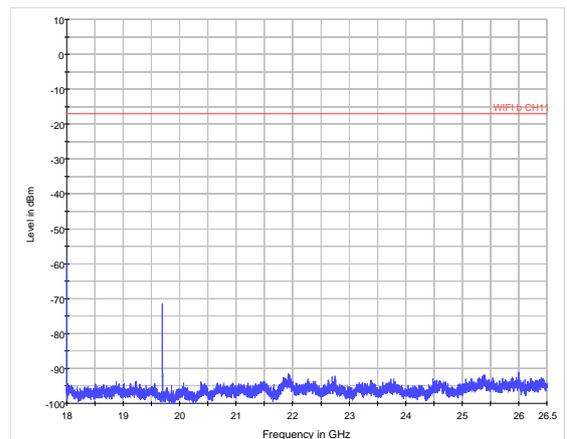
802.11b CH6 30MHz to 18GHz



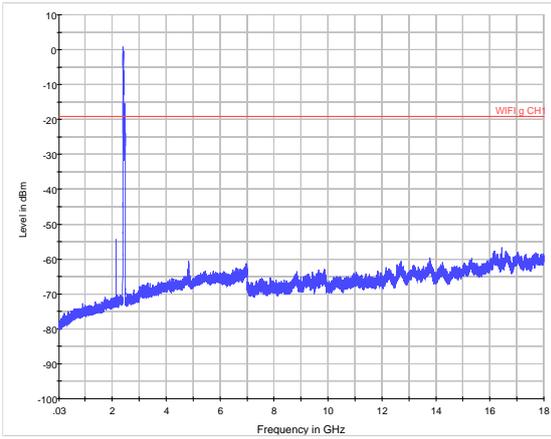
802.11b CH6 18GHz to 26.5GHz



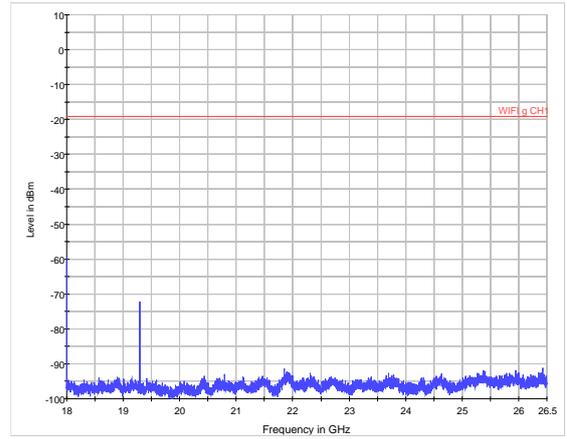
802.11b CH11 30MHz to 18GHz



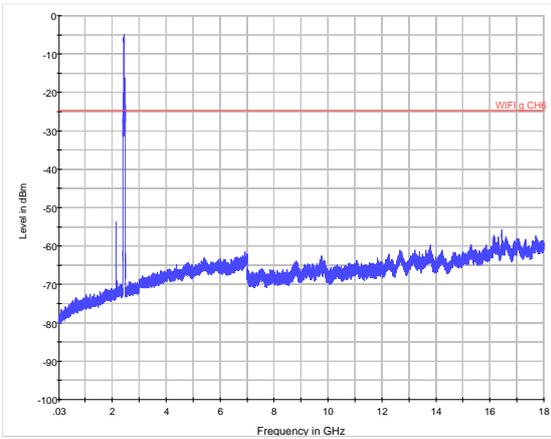
802.11b CH11 18GHz to 26.5GHz



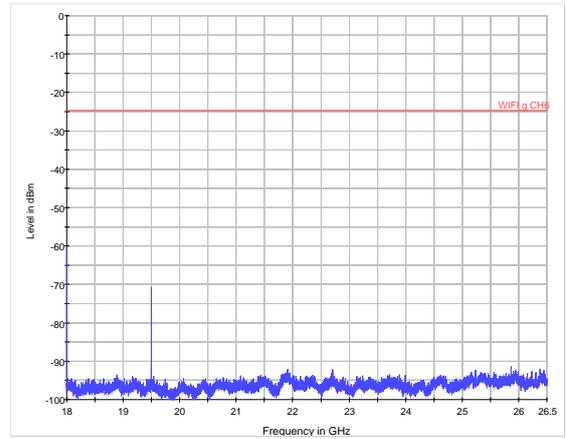
802.11g CH1 30MHz to 18GHz



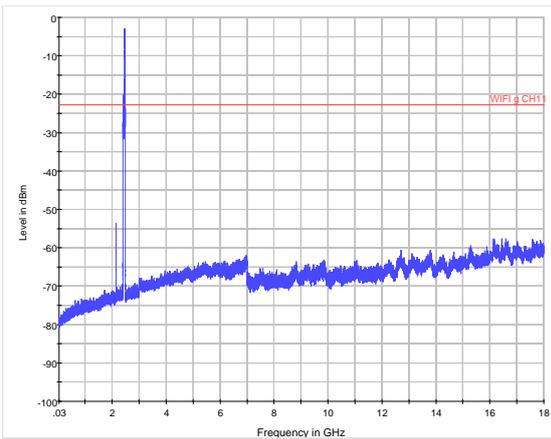
802.11g CH1 18GHz to 26.5GHz



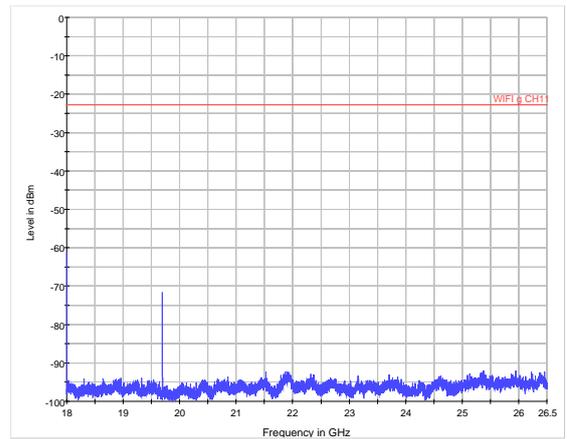
802.11g CH6 30MHz to 18GHz



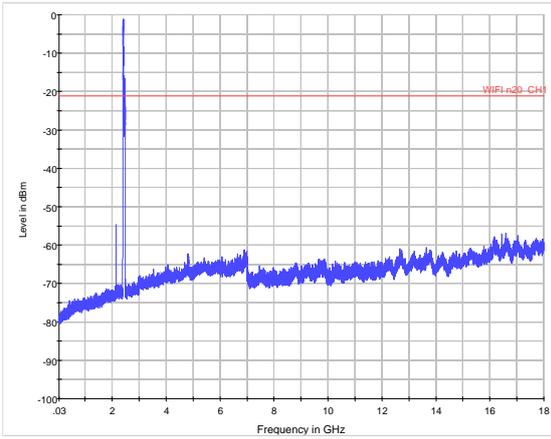
802.11g CH6 18GHz to 26.5GHz



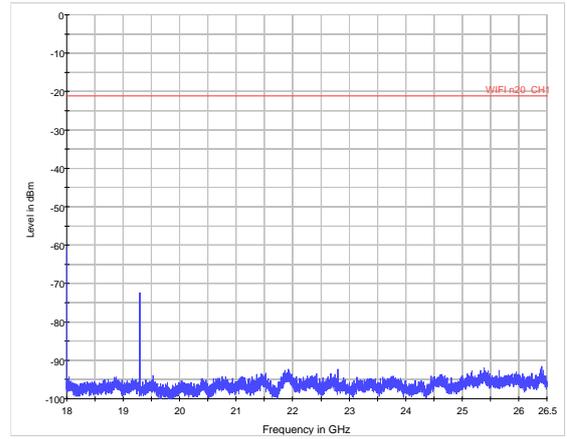
802.11g CH11 30MHz to 18GHz



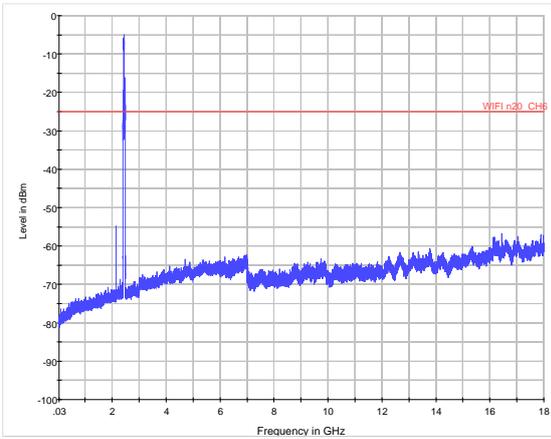
802.11g CH11 18GHz to 26.5GHz



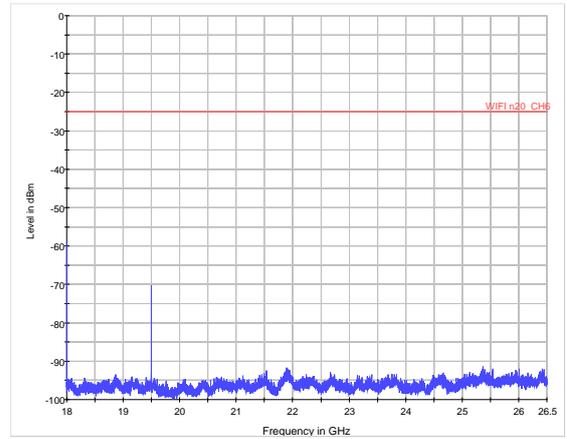
802.11 n (HT20) CH1 30MHz to 18GHz



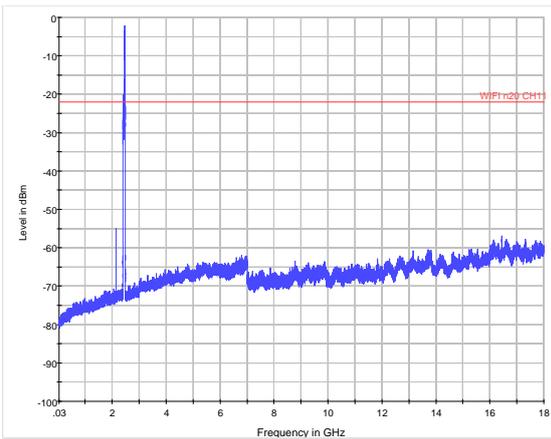
802.11 n (HT20) CH1 18GHz to 26.5GHz



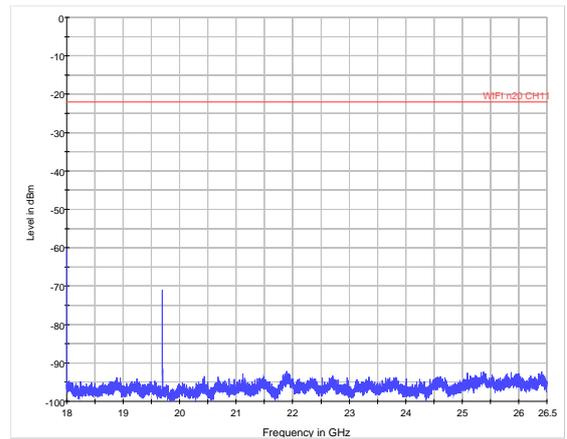
802.11 n (HT20) CH6 30MHz to 18GHz



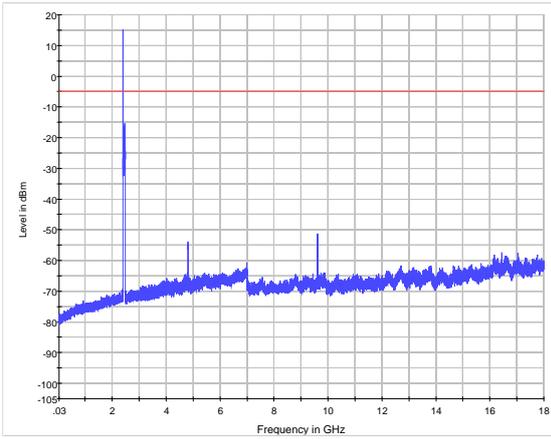
802.11 n (HT20) CH6 18GHz to 26.5GHz



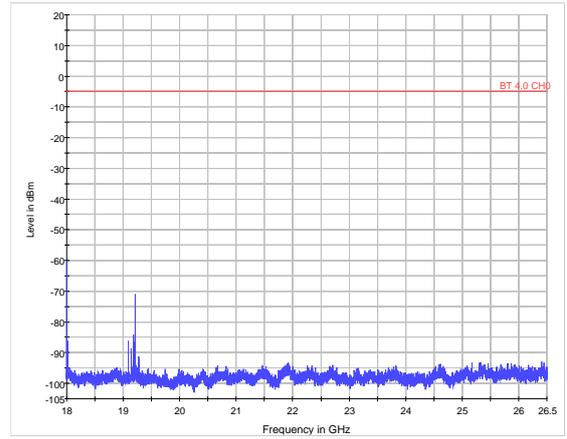
802.11 n (HT20) CH11 30MHz to 18GHz



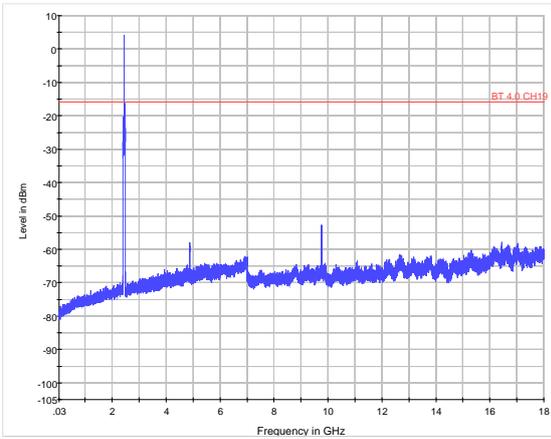
802.11 n (HT20) CH11 18GHz to 26.5GHz



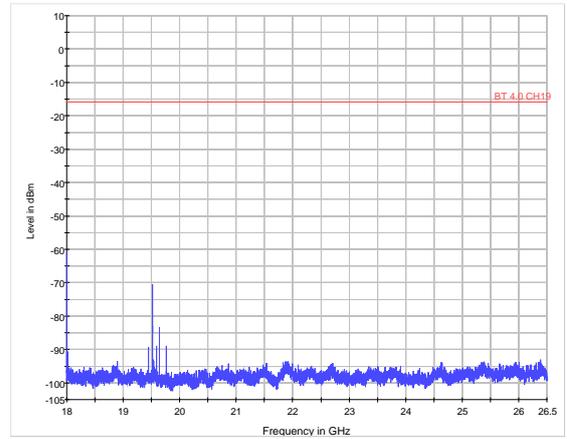
BLE CH0 30MHz to 18GHz



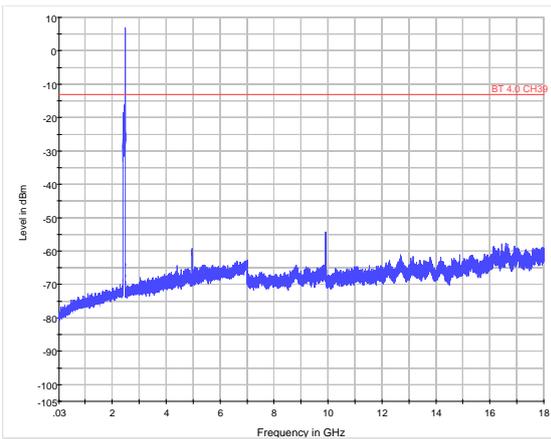
BLE CH0 18GHz to 26.5GHz



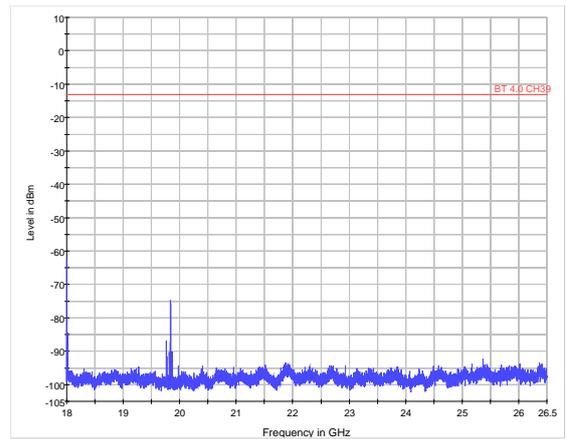
BLE CH19 30MHz to 18GHz



BLE CH19 18GHz to 26.5GHz



BLE CH39 30MHz to 18GHz



BLE CH39 18GHz to 26.5GHz

5.6. Radiated Emissions in the Restricted Band

Ambient condition

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

Method of Measurement

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. RBW is set to 100kHz. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

Set the spectrum analyzer in the following:

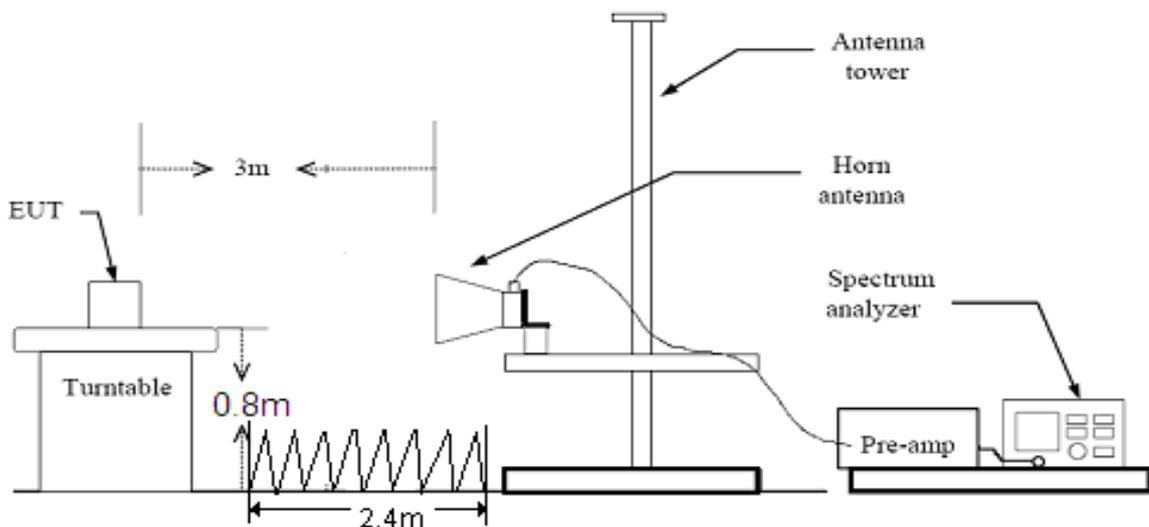
- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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

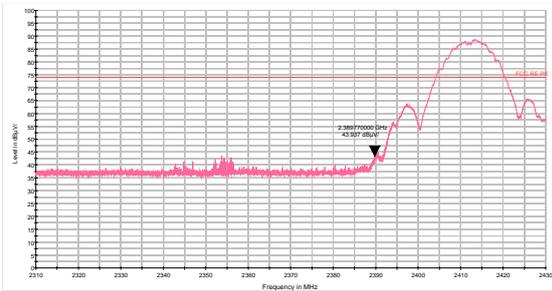
Measurement Uncertainty

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.

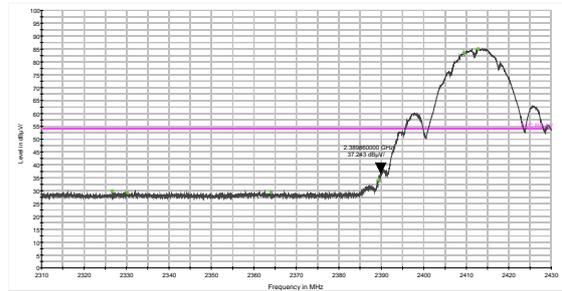
Test Results:

PASS

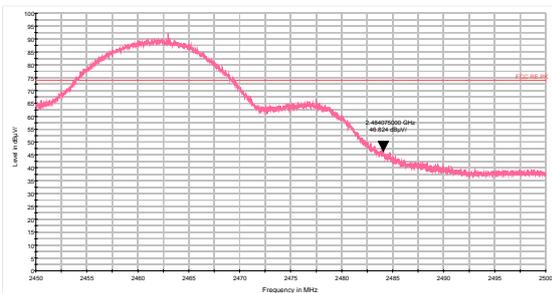
The signal beyond the limit is carrier.



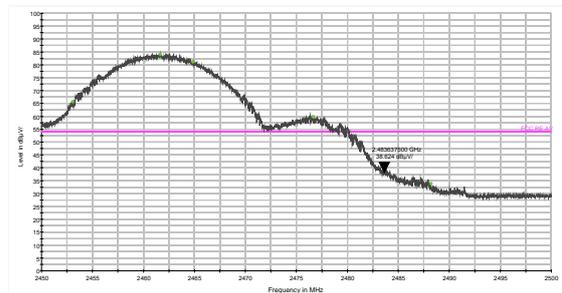
802.11b-Channel 1: Peak



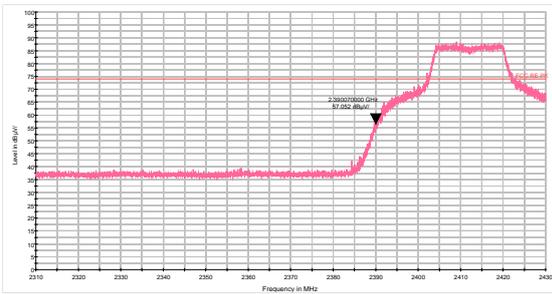
802.11b-Channel 1: Average



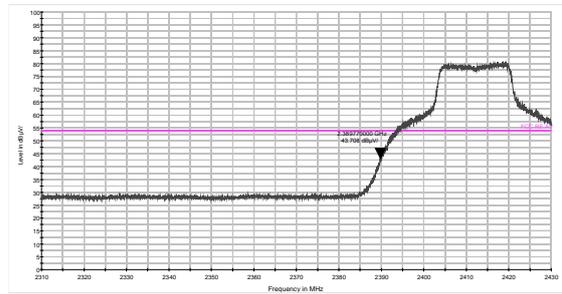
802.11b-Channel 11: Peak



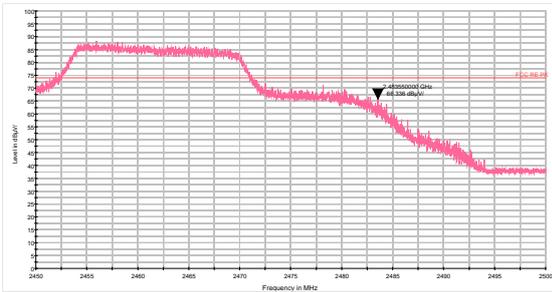
802.11b-Channel 11: Average



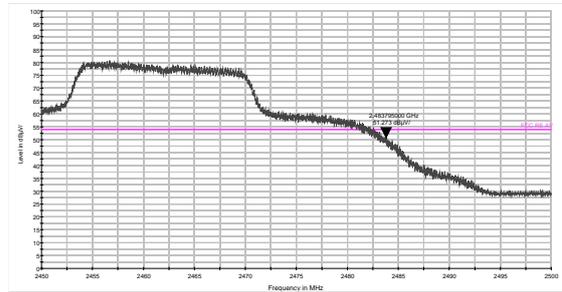
802.11g-Channel 1: Peak



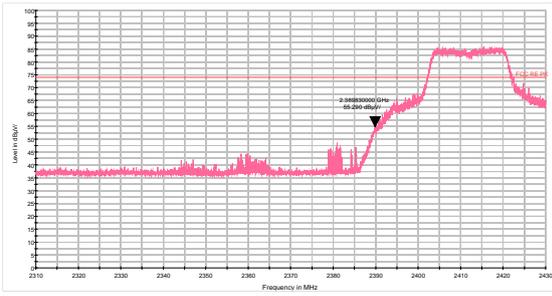
802.11g-Channel 1: Average



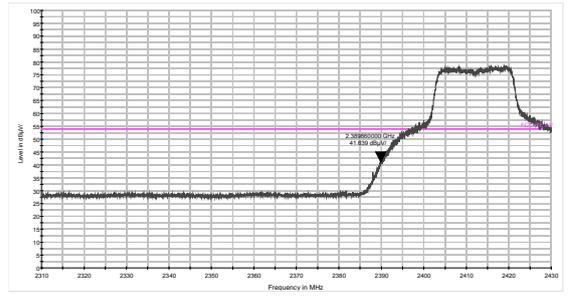
802.11g-Channel 11: Peak



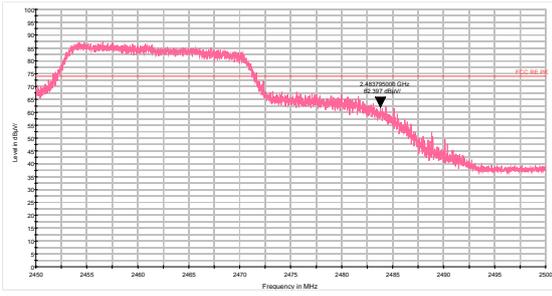
802.11g-Channel 11: Average



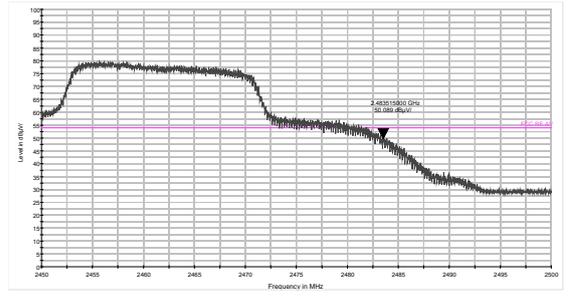
802.11n HT20 -Channel 1: Peak



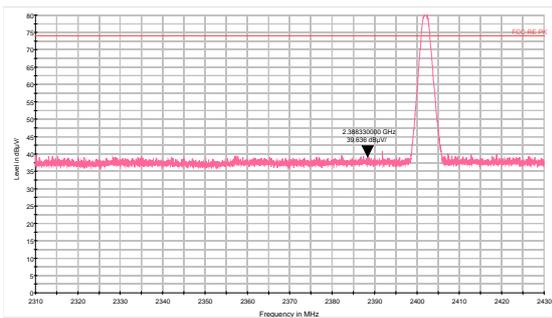
802.11n HT20-Channel 1: Average



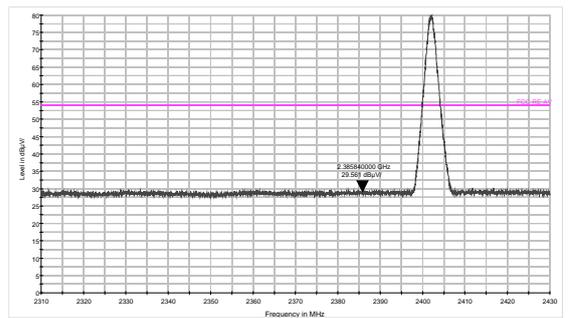
802.11n HT20-Channel 11: Peak



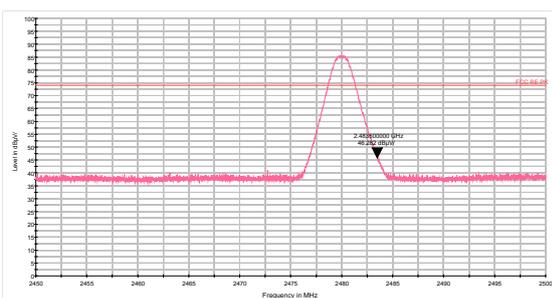
802.11n HT20-Channel 11: Average



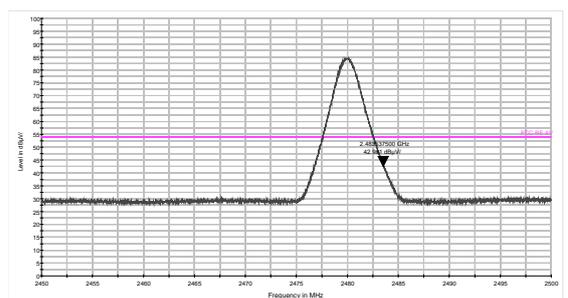
BLE -Channel 0: Peak



BLE -Channel 0: Average



BLE -Channel 39: Peak



BLE -Channel 39: Average

5.7. Radiates Emission

Ambient condition

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

Method of Measurement

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

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz (detector: Peak):

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

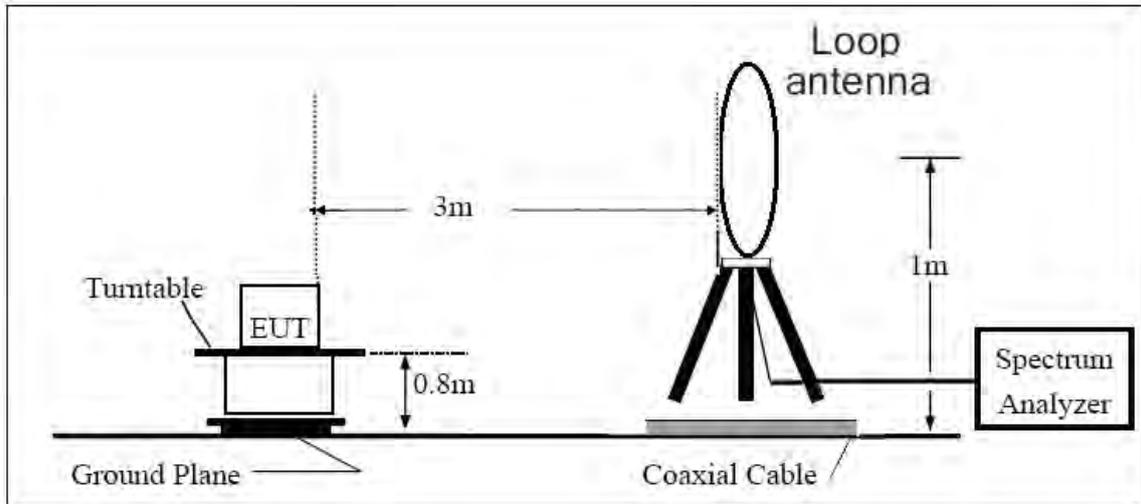
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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

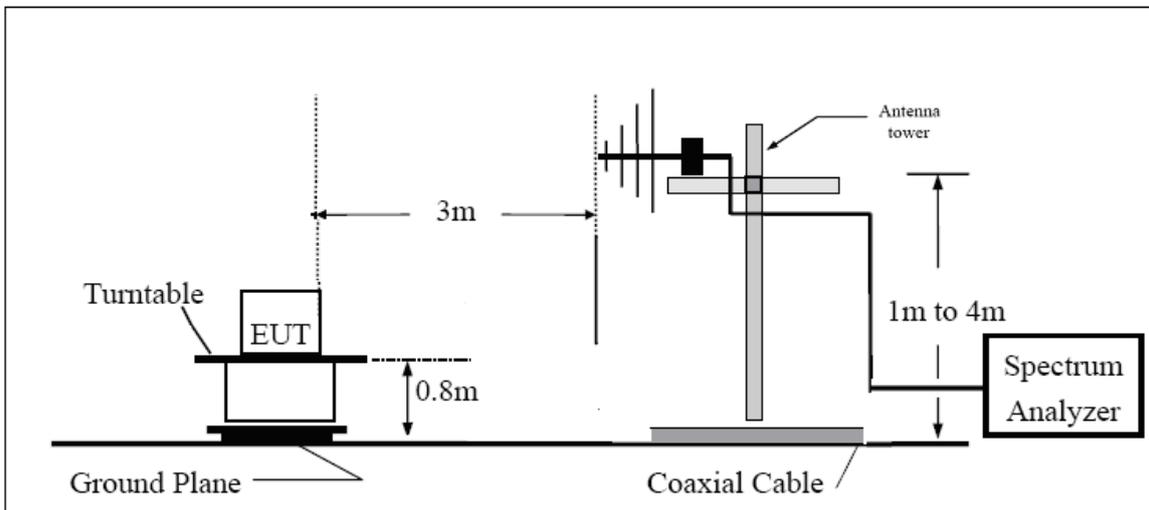
The test is in transmitting mode.

Test setup

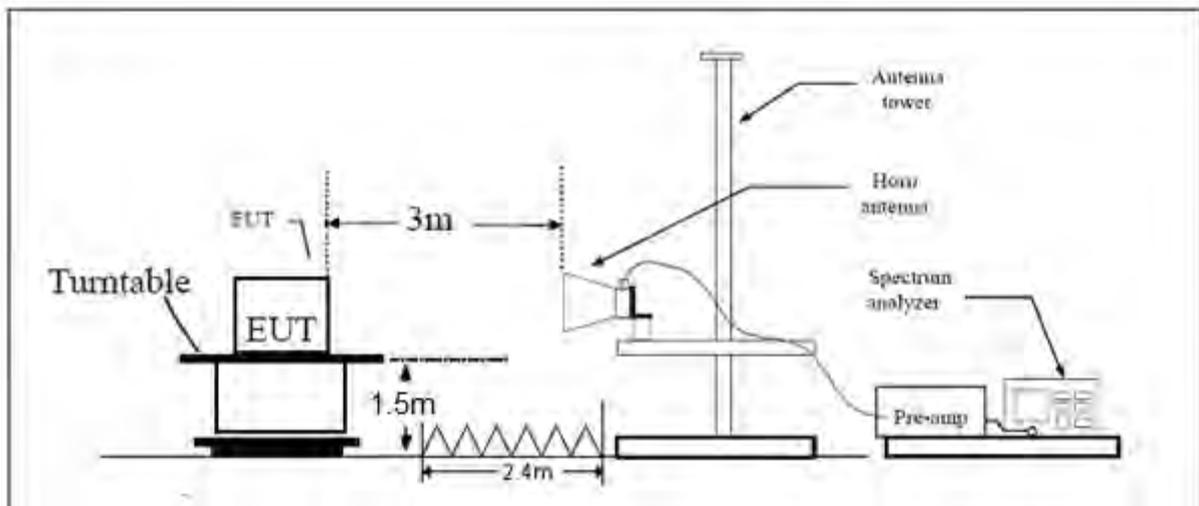
9KHz~~~ 30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

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

Limit in restricted band

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

§15.35(b)

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

Measurement Uncertainty

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

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
Above 1GHz	3.68 dB



Test result

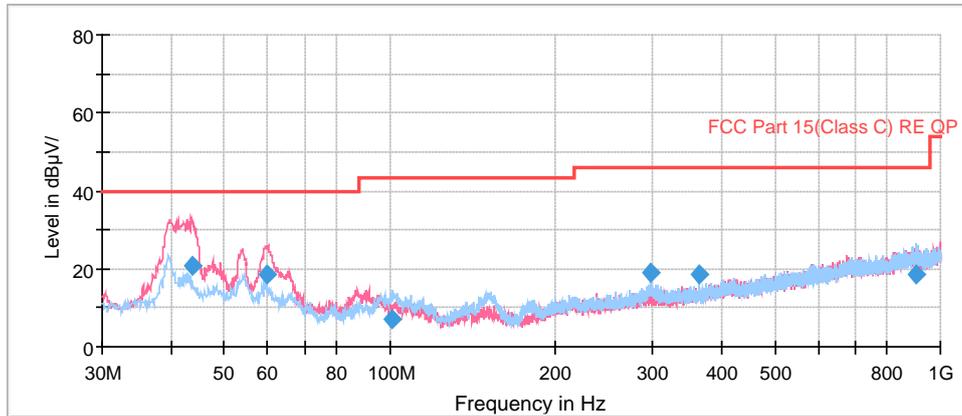
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

The following graphs display the maximum values of horizontal and vertical by software.

For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

802.11b CH1

RE 30M-1GHz QP



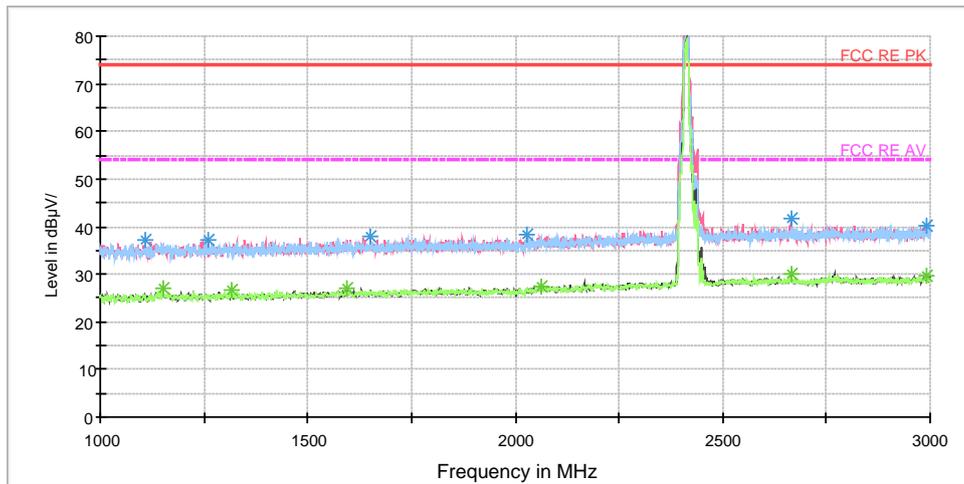
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
43.631050	20.9	102.0	V	0.0	41.7	-20.8	19.1	40.0
59.919825	18.7	101.0	V	177.0	41.9	-23.2	21.3	40.0
100.940472	7.1	125.0	H	8.0	32.5	-25.4	36.4	43.5
297.010000	19.2	123.0	H	224.0	42.6	-23.4	26.8	46.0
364.819250	18.6	100.0	H	147.0	40.9	-22.3	27.4	46.0
902.409000	18.4	125.0	H	40.0	31.3	-12.9	27.6	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



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

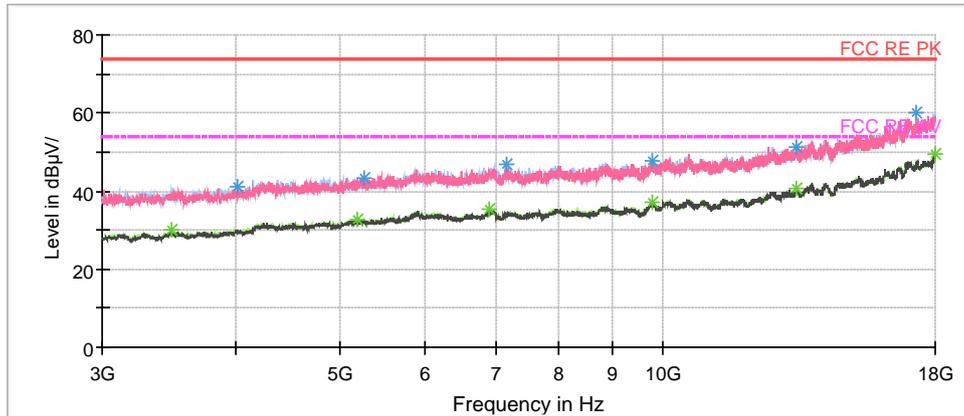
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1107.500000	37.3	150	H	33.0	48.3	-11.0	36.7	74
1260.000000	37.1	150	V	209.0	47.4	-10.3	36.9	74
1651.000000	38.0	150	V	284.0	46.8	-8.8	36.0	74
2029.500000	38.4	150	V	146.0	46.0	-7.6	35.6	74
2664.000000	41.9	150	V	124.0	46.5	-4.6	32.1	74
2990.000000	40.0	150	V	358.0	44.0	-4.0	34.0	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)
1153.500000	27.1	150	V	335.0	37.9	-10.8	26.9	54
1315.000000	26.5	150	H	333.0	36.6	-10.1	27.5	54
1593.000000	27.0	150	V	156.0	36.0	-9.0	27.0	54
2065.000000	27.3	150	H	0.0	34.6	-7.3	26.7	54
2664.000000	30.2	150	V	124.0	34.8	-4.6	23.8	54
2992.000000	29.6	150	H	203.0	33.6	-4.0	24.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

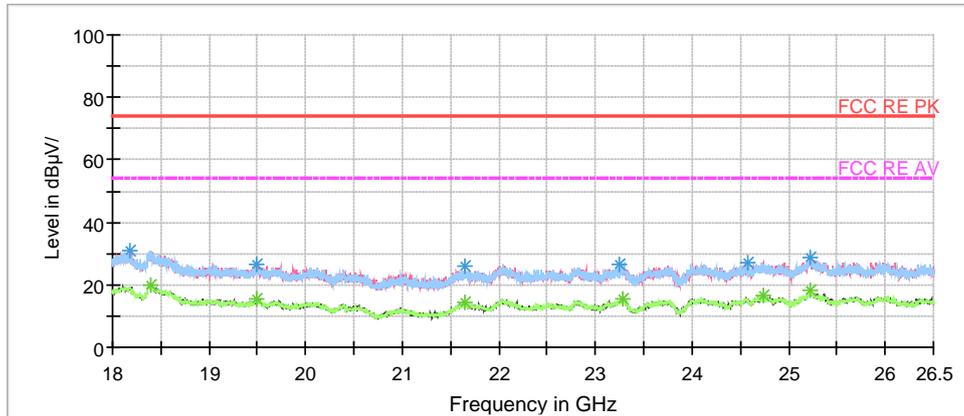
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3485.625000	38.1	150	H	270.0	38.7	-0.6	35.9	74
5184.375000	41.3	150	H	243.0	44.9	3.6	32.7	74
6900.000000	44.2	150	V	90.0	51.2	7.0	29.8	74
9781.875000	46.3	150	H	270.0	58.4	12.1	27.7	74
13344.375000	49.2	150	H	243.0	64.9	15.7	24.8	74
18000.000000	60.0	150	H	166.0	85.4	25.4	14.0	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3485.625000	29.9	150	H	270.0	30.5	-0.6	24.1	54
5184.375000	32.6	150	H	243.0	36.2	3.6	21.4	54
6900.000000	35.2	150	V	90.0	42.2	7.0	18.8	54
9781.875000	37.2	150	H	270.0	49.3	12.1	16.8	54
13344.375000	40.5	150	H	243.0	56.2	15.7	13.5	54
18000.000000	49.4	150	H	166.0	74.8	25.4	4.6	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18388.875000	28.3	V	180.0	33.2	-4.9	45.7	74
19494.937500	25.3	V	135.0	32.9	-7.6	48.7	74
21641.187500	23.0	V	171.0	32.1	-9.1	51.0	74
23287.000000	24.0	H	153.0	31.1	-7.1	50.0	74
24733.062500	25.4	H	90.0	31.7	-6.3	48.6	74
25225.000000	26.6	V	180.0	32.5	-5.9	47.4	74

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

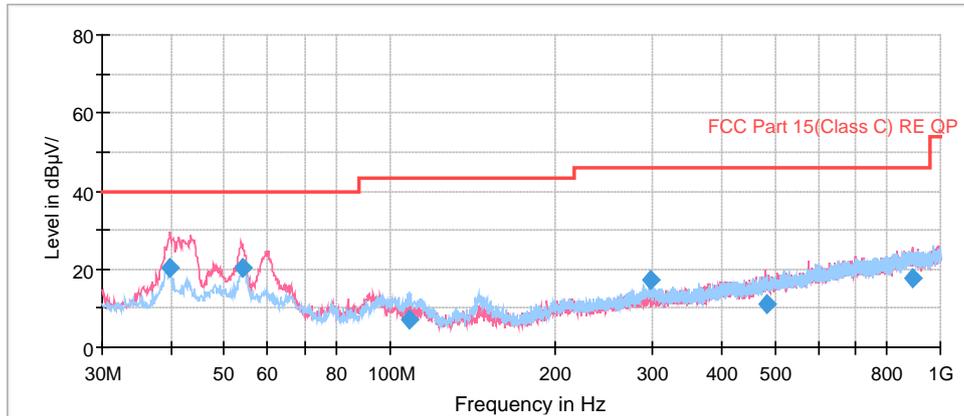
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18388.875000	20.0	V	180.0	24.9	-4.9	34.0	54
19494.937500	15.4	V	135.0	23.0	-7.6	38.6	54
21641.187500	14.2	V	171.0	23.3	-9.1	39.8	54
23287.000000	15.5	H	153.0	22.6	-7.1	38.5	54
24733.062500	16.3	H	90.0	22.6	-6.3	37.7	54
25225.000000	18.0	V	180.0	23.9	-5.9	36.0	54

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



802.11b CH6

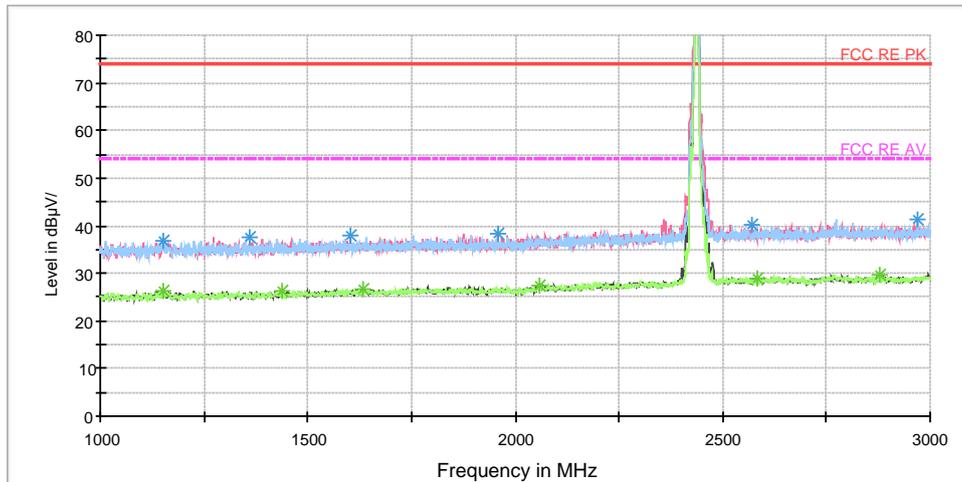
RE 30M-1GHz QP



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)
39.721697	20.5	101.0	V	241.0	41.4	-20.9	19.5	40.0
53.992481	20.2	101.0	V	200.0	41.1	-20.9	19.8	40.0
108.334788	7.2	126.0	H	0.0	33.1	-25.9	36.3	43.5
297.010000	17.4	125.0	H	98.0	40.8	-23.4	28.6	46.0
483.095000	11.1	126.0	V	312.0	30.5	-19.4	34.9	46.0
889.020250	17.5	123.0	V	255.0	30.1	-12.6	28.5	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



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)
1151.500000	36.8	150	V	358.0	47.6	-10.8	37.2	74
1360.500000	37.5	150	H	53.0	47.5	-10.0	36.5	74
1604.500000	38.1	150	V	284.0	47.1	-9.0	35.9	74
1957.000000	38.2	150	V	134.0	46.2	-8.0	35.8	74
2571.500000	40.2	150	V	263.0	44.9	-4.7	33.8	74
2970.500000	41.2	150	H	107.0	45.2	-4.0	32.8	74

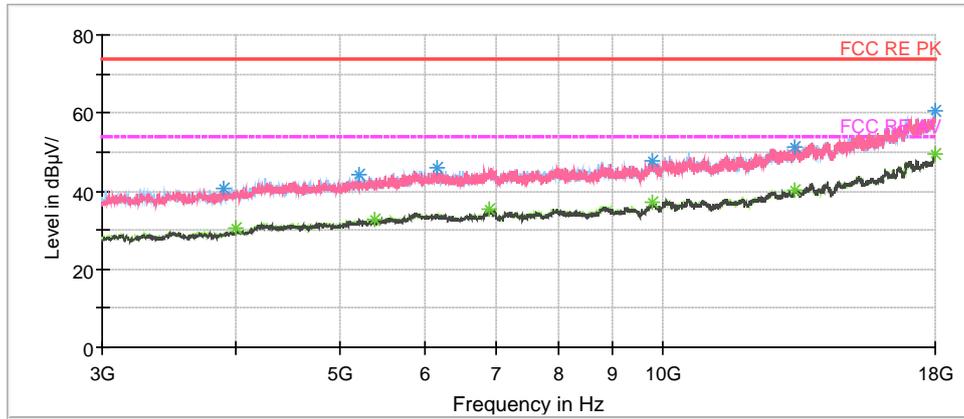
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1151.500000	26.5	150	V	231.0	37.3	-10.8	27.5	54
1360.500000	26.2	150	H	170.0	35.9	-9.7	27.8	54
1604.500000	26.6	150	H	11.0	35.5	-8.9	27.4	54
1957.000000	27.3	150	V	335.0	34.7	-7.4	26.7	54
2571.500000	29.0	150	V	231.0	33.7	-4.7	25.0	54
2970.500000	29.7	150	H	170.0	33.9	-4.2	24.3	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

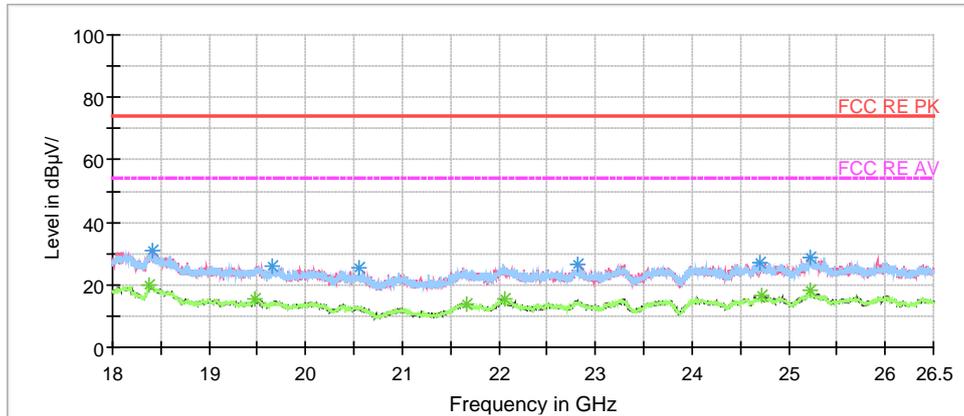
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4005.000000	39.1	150	H	157.0	39.6	0.5	34.9	74
5383.125000	41.2	150	V	146.0	44.9	3.7	32.8	74
6905.625000	43.9	150	V	131.0	50.8	6.9	30.1	74
9789.375000	46.4	150	H	157.0	58.5	12.1	27.6	74
13327.500000	49.6	150	V	207.0	65.2	15.6	24.4	74
18000.000000	57.9	150	H	265.0	83.3	25.4	16.1	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)
4005.000000	30.3	150	H	157.0	30.8	0.5	23.7	54
5383.125000	32.8	150	V	146.0	36.5	3.7	21.2	54
6905.625000	35.4	150	V	131.0	42.3	6.9	18.6	54
9789.375000	37.1	150	H	157.0	49.2	12.1	16.9	54
13327.500000	40.4	150	V	207.0	56.0	15.6	13.6	54
18000.000000	49.3	150	H	265.0	74.7	25.4	4.7	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)
18379.312500	28.8	V	180.0	33.6	-4.8	45.2	74
19481.125000	24.7	H	90.0	32.5	-7.8	49.3	74
21660.312500	23.3	V	180.0	32.5	-9.2	50.7	74
22064.062500	24.9	V	172.0	33.0	-8.1	49.1	74
24726.687500	25.7	V	163.0	31.9	-6.2	48.3	74
25223.937500	27.0	H	90.0	32.9	-5.9	47.0	74

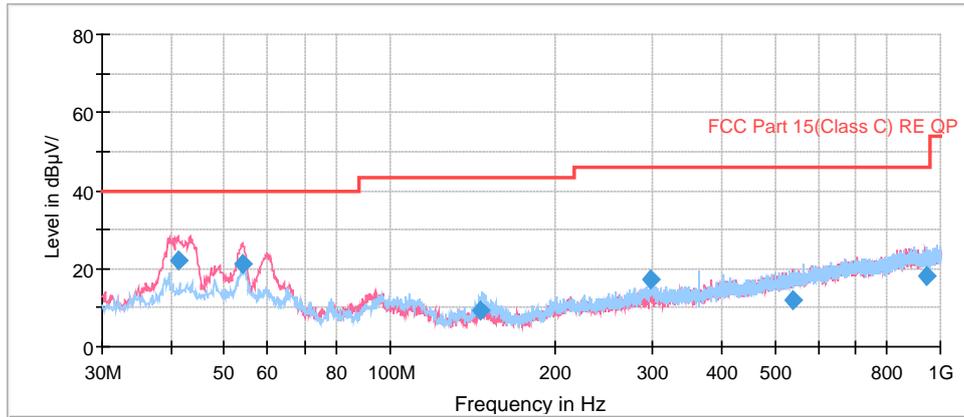
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18379.312500	20.0	V	180.0	24.8	-4.8	34.0	54
19481.125000	15.5	H	90.0	23.3	-7.8	38.5	54
21660.312500	14.1	V	180.0	23.3	-9.2	39.9	54
22064.062500	15.5	V	172.0	23.6	-8.1	38.5	54
24726.687500	16.4	V	163.0	22.6	-6.2	37.6	54
25223.937500	18.3	H	90.0	24.2	-5.9	35.7	54

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

802.11b CH11

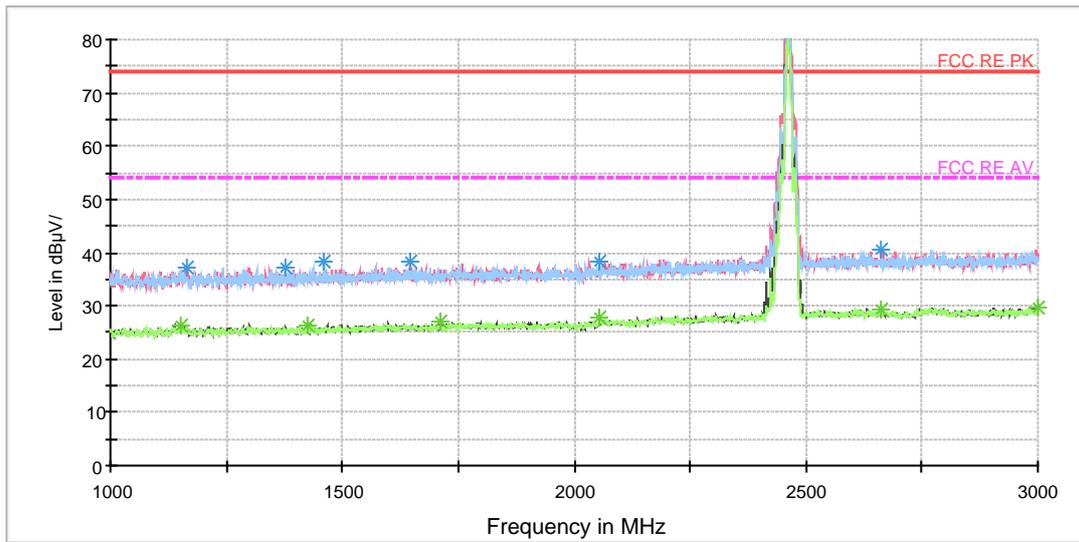
RE 30M-1GHz QP



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)
41.252112	22.0	100.0	V	243.0	42.5	-20.5	18.0	40.0
54.020966	21.0	100.0	V	223.0	41.9	-20.9	19.0	40.0
146.476840	9.3	125.0	H	314.0	38.9	-29.6	34.2	43.5
297.009250	17.3	125.0	H	22.0	40.7	-23.4	28.7	46.0
541.005750	11.8	125.0	H	292.0	30.1	-18.3	34.2	46.0
940.800000	18.1	100.0	H	74.0	31.3	-13.2	27.9	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak



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

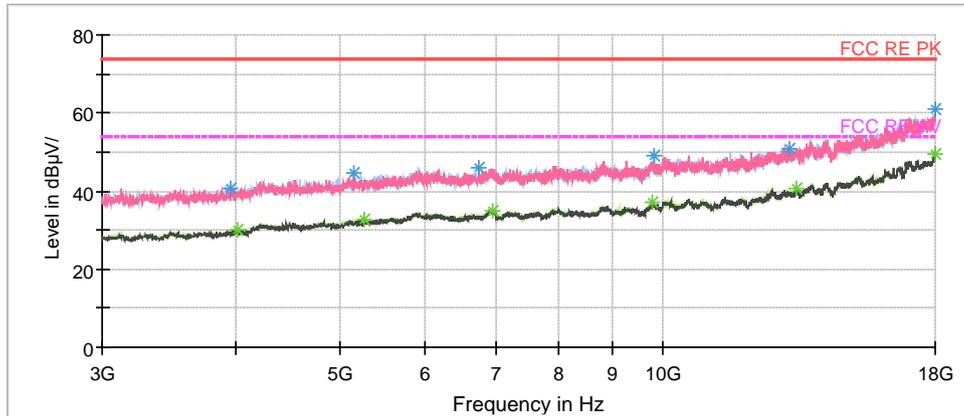
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1167.000000	37.2	150	V	0.0	48.0	-10.8	36.8	74
1377.000000	37.2	150	H	225.0	47.1	-9.9	36.8	74
1462.000000	38.2	150	H	235.0	47.8	-9.6	35.8	74
1647.000000	38.1	150	V	182.0	46.9	-8.8	35.9	74
2053.000000	38.3	150	H	311.0	45.7	-7.4	35.7	74
2662.000000	40.6	150	V	0.0	45.2	-4.6	33.4	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)
1150.000000	26.4	150	H	289.0	37.2	-10.8	27.6	54
1423.000000	26.3	150	V	0.0	36.1	-9.8	27.7	54
1712.500000	26.9	150	H	3.0	35.6	-8.7	27.1	54
2056.000000	27.7	150	H	24.0	35.1	-7.4	26.3	54
2662.500000	29.5	150	V	0.0	34.1	-4.6	24.5	54
2998.000000	29.8	150	V	107.0	33.8	-4.0	24.2	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)
4018.125000	38.9	150	H	200.0	39.4	0.5	35.1	74
5265.000000	42.0	150	V	90.0	45.7	3.7	32.0	74
6943.125000	43.8	150	H	215.0	50.5	6.7	30.2	74
9806.250000	46.4	150	H	270.0	58.6	12.2	27.6	74
13346.250000	50.2	150	V	102.0	66.0	15.8	23.8	74
17998.125000	59.0	150	H	169.0	84.4	25.4	15.0	74

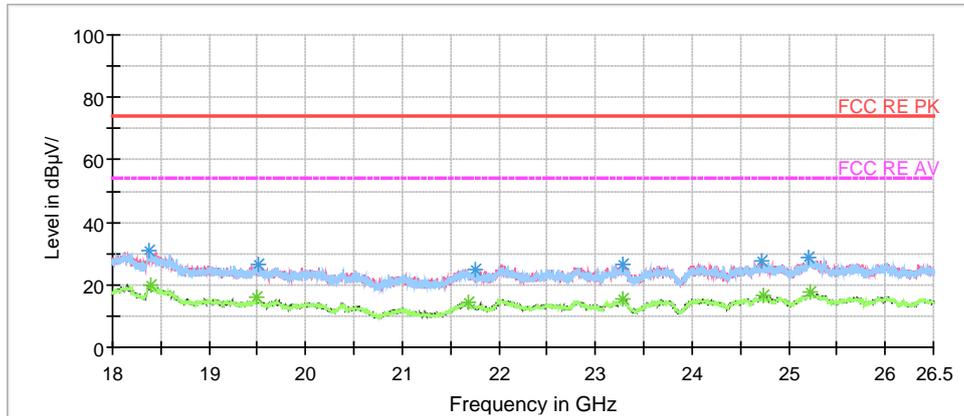
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4018.125000	30.1	150	H	200.0	30.6	0.5	23.9	54
5265.000000	32.7	150	V	90.0	36.4	3.7	21.3	54
6943.125000	35.0	150	H	215.0	41.7	6.7	19.0	54
9806.250000	37.1	150	H	270.0	49.3	12.2	16.9	54
13346.250000	40.5	150	V	102.0	56.3	15.8	13.5	54
17998.125000	49.3	150	H	169.0	74.7	25.4	4.7	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)
18387.812500	29.7	V	134.0	34.6	-4.9	44.3	74
19497.062500	24.9	H	141.0	32.4	-7.5	49.1	74
21690.062500	22.4	V	180.0	31.7	-9.3	51.6	74
23291.250000	24.2	H	114.0	31.2	-7.0	49.8	74
24740.500000	25.7	V	171.0	32.2	-6.5	48.3	74
25216.500000	27.6	H	90.0	33.7	-6.1	46.4	74

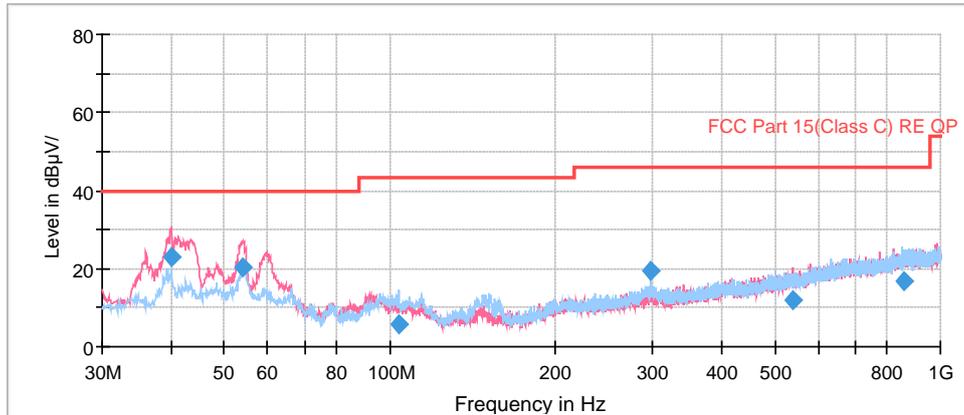
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18387.812500	20.0	V	134.0	24.9	-4.9	34.0	54
19497.062500	16.0	H	141.0	23.5	-7.5	38.0	54
21690.062500	14.1	V	180.0	23.4	-9.3	39.9	54
23291.250000	15.3	H	114.0	22.3	-7.0	38.7	54
24740.500000	16.5	V	171.0	23.0	-6.5	37.5	54
25216.500000	17.9	H	90.0	24.0	-6.1	36.1	54

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

802.11g CH1

RE 30M-1GHz QP



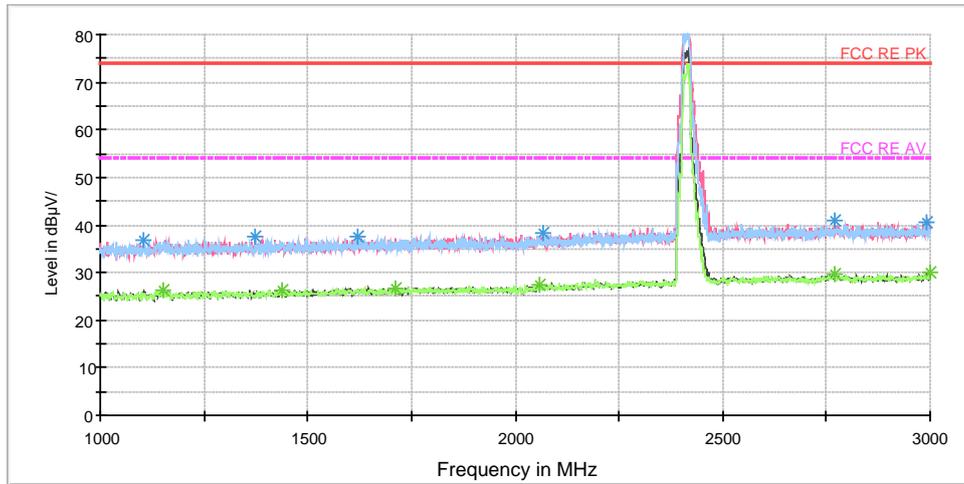
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
39.963590	23.0	100.0	V	264.0	43.8	-20.8	17.0	40.0
54.114375	20.3	100.0	V	195.0	41.2	-20.9	19.7	40.0
103.581647	5.9	125.0	H	18.0	31.6	-25.7	37.6	43.5
297.010750	19.6	121.0	H	160.0	43.0	-23.4	26.4	46.0
540.797750	11.8	125.0	V	45.0	30.1	-18.3	34.2	46.0
856.604000	16.8	100.0	H	209.0	29.9	-13.1	29.2	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



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)
1105.000000	36.8	150	V	240.0	47.8	-11.0	37.2	74
1375.000000	37.7	150	H	171.0	47.6	-9.9	36.3	74
1619.000000	37.6	150	H	65.0	46.5	-8.9	36.4	74
2068.000000	38.2	150	H	12.0	45.5	-7.3	35.8	74
2770.500000	41.0	150	V	303.0	45.3	-4.3	33.0	74
2990.500000	40.5	150	V	251.0	44.5	-4.0	33.5	74

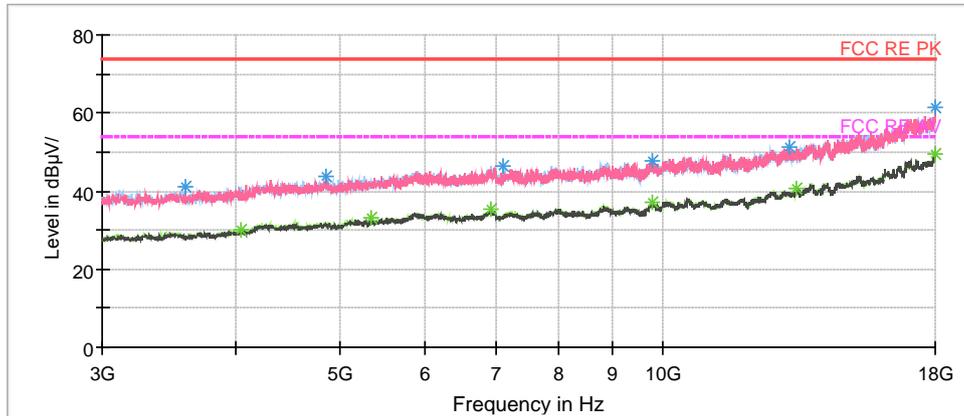
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1152.000000	26.3	150	V	324.0	37.1	-10.8	27.7	54
1438.000000	26.4	150	V	303.0	36.1	-9.7	27.6	54
1709.500000	26.7	150	H	0.0	35.4	-8.7	27.3	54
2057.000000	27.3	150	V	272.0	34.7	-7.4	26.7	54
2772.000000	29.6	150	H	139.0	33.9	-4.3	24.4	54
2998.500000	29.9	150	V	155.0	33.9	-4.0	24.1	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

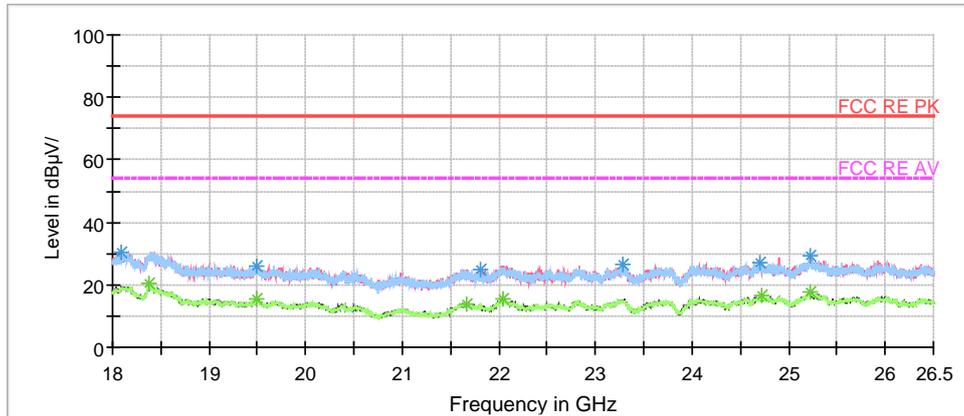
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4040.625000	39.3	150	H	270.0	39.9	0.6	34.7	74
5341.875000	41.0	150	H	119.0	44.8	3.8	33.0	74
6911.250000	44.2	150	H	229.0	51.1	6.9	29.8	74
9796.875000	45.4	150	H	270.0	57.6	12.2	28.6	74
13342.500000	48.4	150	H	260.0	64.1	15.7	25.6	74
17994.375000	58.3	150	V	119.0	83.6	25.3	15.7	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)
4040.625000	29.8	150	H	270.0	30.4	0.6	24.2	54
5341.875000	33.0	150	H	119.0	36.8	3.8	21.0	54
6911.250000	35.2	150	H	229.0	42.1	6.9	18.8	54
9796.875000	37.0	150	H	270.0	49.2	12.2	17.0	54
13342.500000	40.4	150	H	260.0	56.1	15.7	13.6	54
17994.375000	49.3	150	V	119.0	74.6	25.3	4.7	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)
18378.250000	28.7	V	163.0	33.5	-4.8	45.3	74
19497.062500	24.6	V	125.0	32.1	-7.5	49.4	74
21658.187500	23.0	H	90.0	32.2	-9.2	51.0	74
22038.562500	25.5	H	99.0	33.5	-8.0	48.5	74
24720.312500	25.7	H	99.0	32.0	-6.3	48.3	74
25219.687500	29.3	V	180.0	35.3	-6.0	44.7	74

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

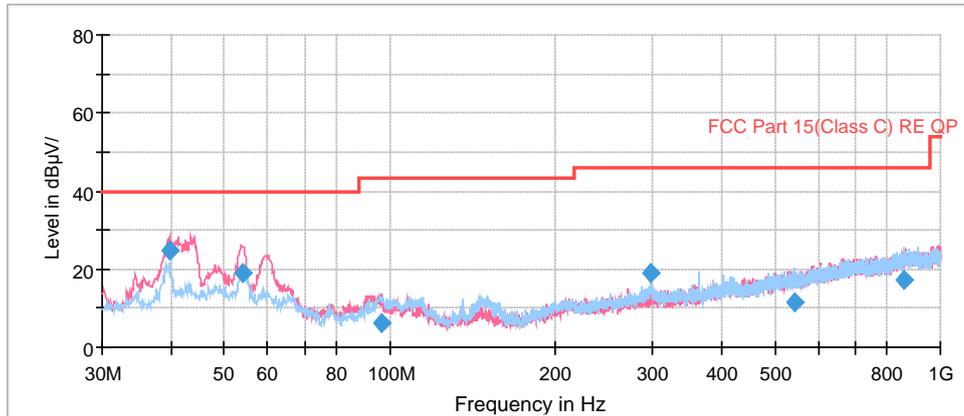
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18378.250000	20.3	V	163.0	25.1	-4.8	33.7	54
19497.062500	15.3	V	125.0	22.8	-7.5	38.7	54
21658.187500	14.1	H	90.0	23.3	-9.2	39.9	54
22038.562500	15.5	H	99.0	23.5	-8.0	38.5	54
24720.312500	16.4	H	99.0	22.7	-6.3	37.6	54
25219.687500	17.7	V	180.0	23.7	-6.0	36.3	54

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



802.11g CH6

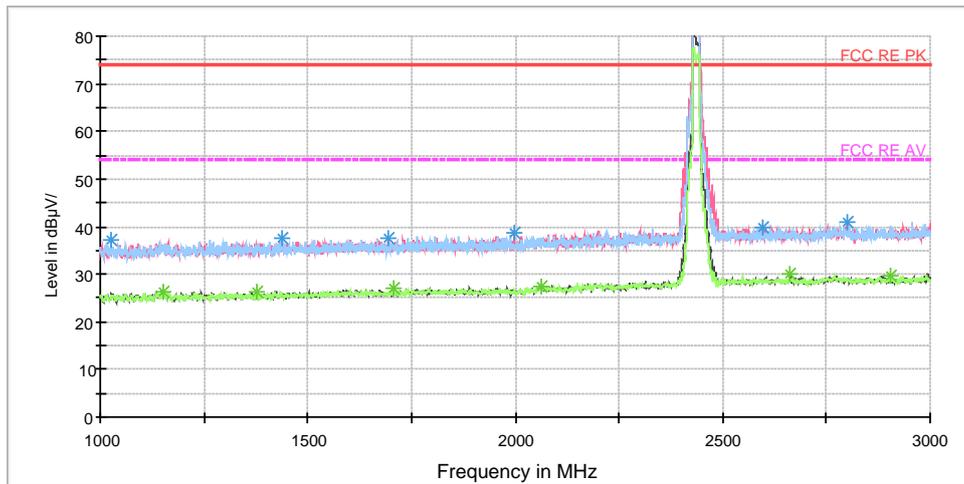
RE 30M-1GHz QP



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)
39.799250	25.0	100.0	V	239.0	45.9	-20.9	15.0	40.0
54.033428	18.9	100.0	V	194.0	39.8	-20.9	21.1	40.0
96.566728	6.4	123.0	V	56.0	31.8	-25.4	37.1	43.5
297.010000	18.9	123.0	H	208.0	42.3	-23.4	27.1	46.0
543.987500	11.6	125.0	H	237.0	29.9	-18.3	34.4	46.0
860.810250	17.2	123.0	H	214.0	30.0	-12.8	28.8	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak



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)
1027.500000	37.1	150	V	352.0	48.4	-11.3	36.9	74
1436.500000	37.6	150	H	182.0	47.3	-9.7	36.4	74
1696.000000	37.6	150	V	284.0	46.3	-8.7	36.4	74
1996.500000	38.8	150	V	103.0	46.6	-7.8	35.2	74
2597.000000	39.8	150	V	0.0	44.5	-4.7	34.2	74
2801.000000	40.8	150	V	316.0	44.9	-4.1	33.2	74

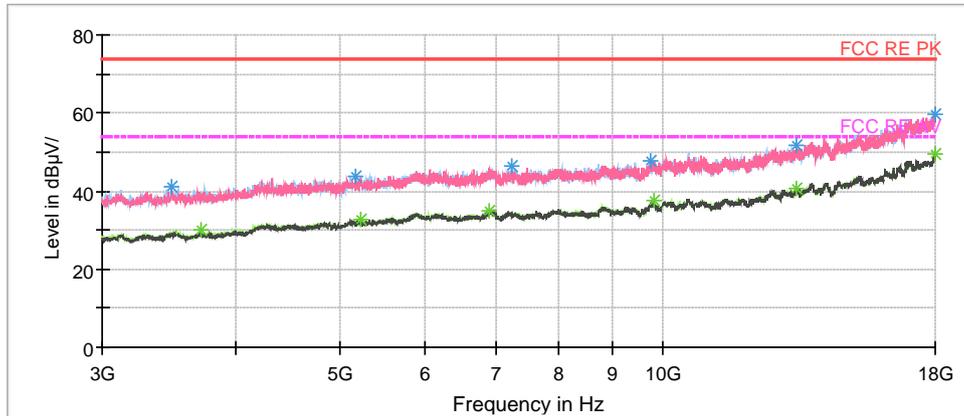
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1153.500000	26.5	150	H	30.0	37.3	-10.8	27.5	54
1377.500000	26.5	150	V	348.0	36.4	-9.9	27.5	54
1708.000000	27.0	150	H	301.0	35.7	-8.7	27.0	54
2062.000000	27.4	150	V	135.0	34.8	-7.4	26.6	54
2663.500000	30.2	150	V	0.0	34.8	-4.6	23.8	54
2905.500000	29.6	150	H	225.0	33.8	-4.2	24.4	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

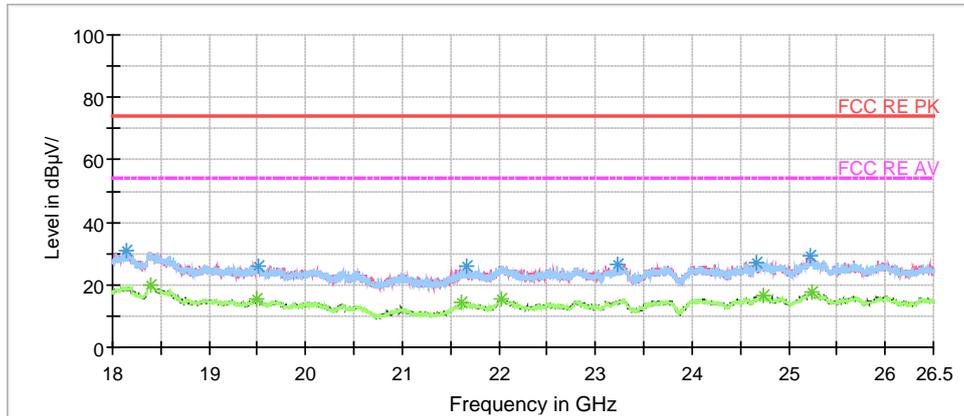
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3710.625000	39.7	150	H	122.0	40.0	-0.3	34.3	74
5227.500000	42.2	150	V	104.0	45.9	3.7	31.8	74
6896.250000	43.6	150	H	180.0	50.6	7.0	30.4	74
9817.500000	47.7	150	V	28.0	59.8	12.1	26.3	74
13350.000000	50.1	150	V	0.0	65.9	15.8	23.9	74
17996.250000	59.4	150	V	89.0	84.8	25.4	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)
3710.625000	30.0	150	H	122.0	30.3	-0.3	24.0	54
5227.500000	32.8	150	V	104.0	36.5	3.7	21.2	54
6896.250000	35.0	150	H	180.0	42.0	7.0	19.0	54
9817.500000	37.6	150	V	28.0	49.7	12.1	16.4	54
13350.000000	40.7	150	V	0.0	56.5	15.8	13.3	54
17996.250000	49.7	150	V	89.0	75.1	25.4	4.3	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18387.812500	29.0	H	236.0	33.9	-4.9	45.0	74
19488.562500	24.7	H	289.0	32.4	-7.7	49.3	74
21621.000000	22.3	H	202.0	31.3	-9.0	51.7	74
22030.062500	25.4	V	311.0	33.4	-8.0	48.6	74
24737.312500	25.4	V	286.0	31.8	-6.4	48.6	74
25236.687500	27.5	V	0.0	33.6	-6.1	46.5	74

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

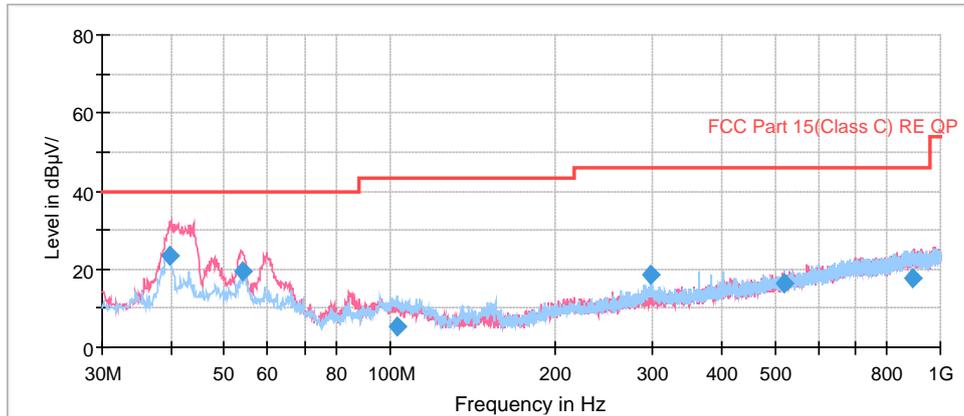
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18387.812500	20.0	H	236.0	24.9	-4.9	34.0	54
19488.562500	15.5	H	289.0	23.2	-7.7	38.5	54
21621.000000	14.1	H	202.0	23.1	-9.0	39.9	54
22030.062500	15.4	V	311.0	23.4	-8.0	38.6	54
24737.312500	16.3	V	286.0	22.7	-6.4	37.7	54
25236.687500	17.8	V	0.0	23.9	-6.1	36.2	54

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



802.11g CH11

RE 30M-1GHz QP



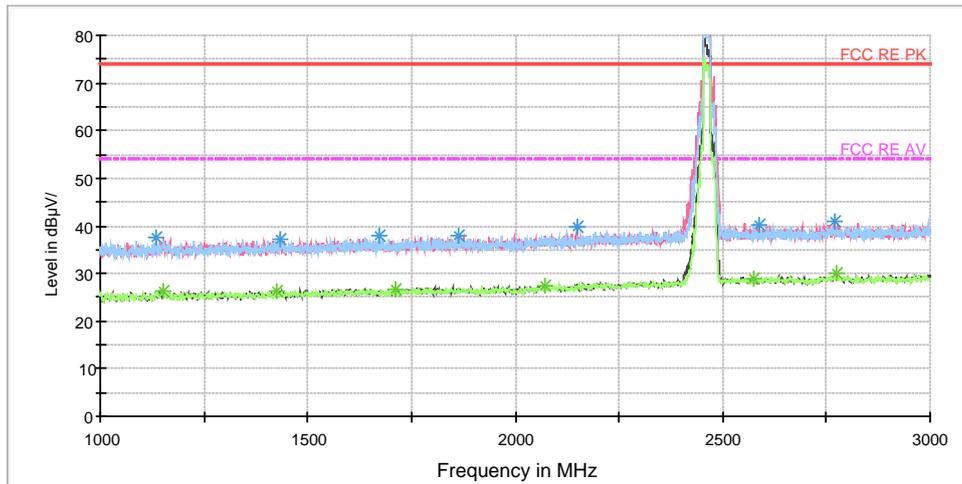
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
39.881697	23.5	100.0	V	272.0	44.3	-20.8	16.5	40.0
53.911534	19.5	100.0	V	134.0	40.4	-20.9	20.5	40.0
102.935966	5.2	125.0	H	8.0	30.8	-25.6	38.3	43.5
297.010000	18.6	123.0	H	182.0	42.0	-23.4	27.4	46.0
519.749250	16.3	100.0	H	45.0	35.3	-19.0	29.7	46.0
892.270500	17.5	125.0	V	22.0	30.2	-12.7	28.5	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



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

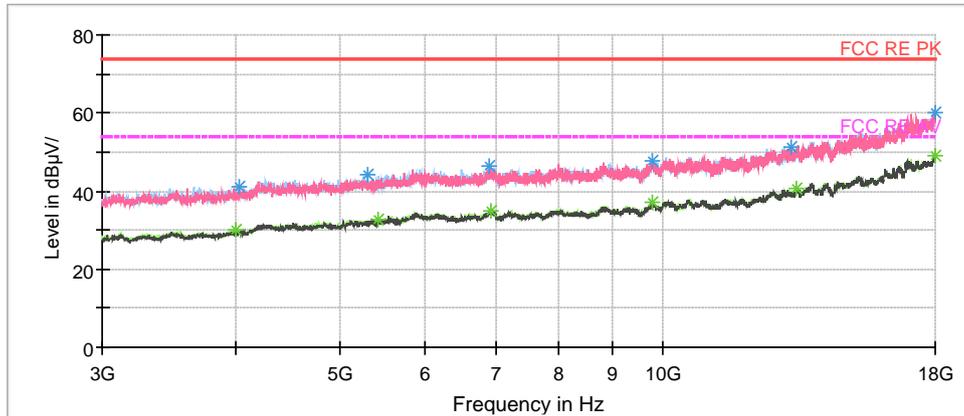
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1136.000000	37.6	150	H	0.0	48.5	-10.9	36.4	74
1436.000000	37.1	150	V	359.0	46.8	-9.7	36.9	74
1674.500000	37.8	150	H	124.0	46.6	-8.8	36.2	74
1864.500000	38.0	150	V	92.0	46.2	-8.2	36.0	74
2148.000000	39.8	150	V	0.0	46.7	-6.9	34.2	74
2587.500000	40.4	150	V	230.0	45.1	-4.7	33.6	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)
1150.500000	26.3	150	V	0.0	37.1	-10.8	27.7	54
1423.000000	26.3	150	H	0.0	36.1	-9.8	27.7	54
1711.000000	26.7	150	V	0.0	35.4	-8.7	27.3	54
2070.000000	27.6	150	V	103.0	34.9	-7.3	26.4	54
2574.000000	29.0	150	V	284.0	33.7	-4.7	25.0	54
2774.500000	29.9	150	V	146.0	34.1	-4.2	24.1	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4001.250000	39.3	150	H	178.0	39.8	0.5	34.7	74
5435.625000	42.9	150	H	180.0	46.7	3.8	31.1	74
6916.875000	44.1	150	H	61.0	51.0	6.9	29.9	74
9800.625000	47.2	150	H	149.0	59.5	12.3	26.8	74
13336.875000	49.7	150	V	37.0	65.4	15.7	24.3	74
18000.000000	59.9	150	H	180.0	85.3	25.4	14.1	74

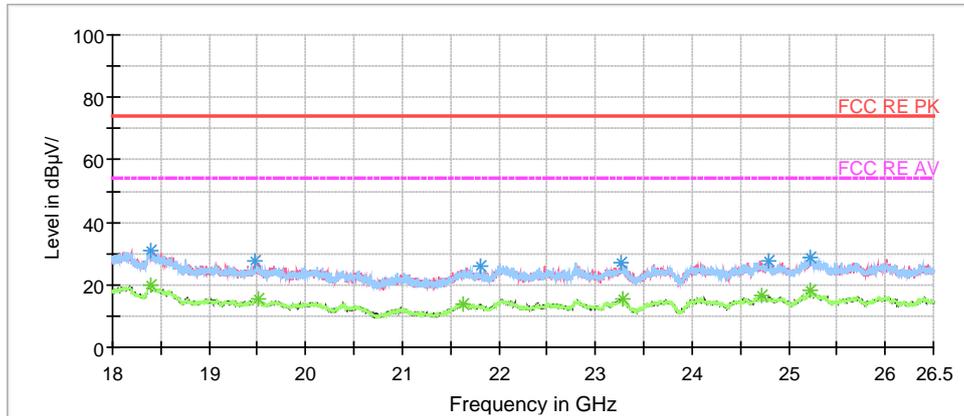
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4001.250000	30.2	150	H	178.0	30.7	0.5	23.8	54
5435.625000	32.8	150	H	180.0	36.6	3.8	21.2	54
6916.875000	35.0	150	H	61.0	41.9	6.9	19.0	54
9800.625000	37.3	150	H	149.0	49.6	12.3	16.7	54
13336.875000	40.5	150	V	37.0	56.2	15.7	13.5	54
18000.000000	49.2	150	H	180.0	74.6	25.4	4.8	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)
18386.750000	29.0	V	0.0	33.8	-4.8	45.0	74
19504.500000	24.4	H	180.0	31.9	-7.5	49.6	74
21628.437500	22.7	H	260.0	31.8	-9.1	51.3	74
23287.000000	24.5	H	180.0	31.6	-7.1	49.5	74
24727.750000	25.8	H	180.0	32.0	-6.2	48.2	74
25230.312500	28.6	V	207.0	34.5	-5.9	45.4	74

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

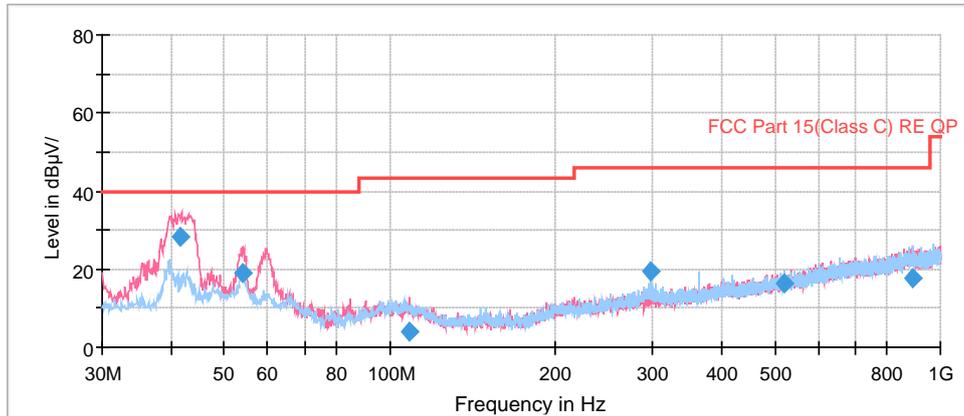
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18386.750000	19.8	V	0.0	24.6	-4.8	34.2	54
19504.500000	15.4	H	180.0	22.9	-7.5	38.6	54
21628.437500	14.1	H	260.0	23.2	-9.1	39.9	54
23287.000000	15.4	H	180.0	22.5	-7.1	38.6	54
24727.750000	16.5	H	180.0	22.7	-6.2	37.5	54
25230.312500	18.0	V	207.0	23.9	-5.9	36.0	54

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



802.11n (HT20) CH1

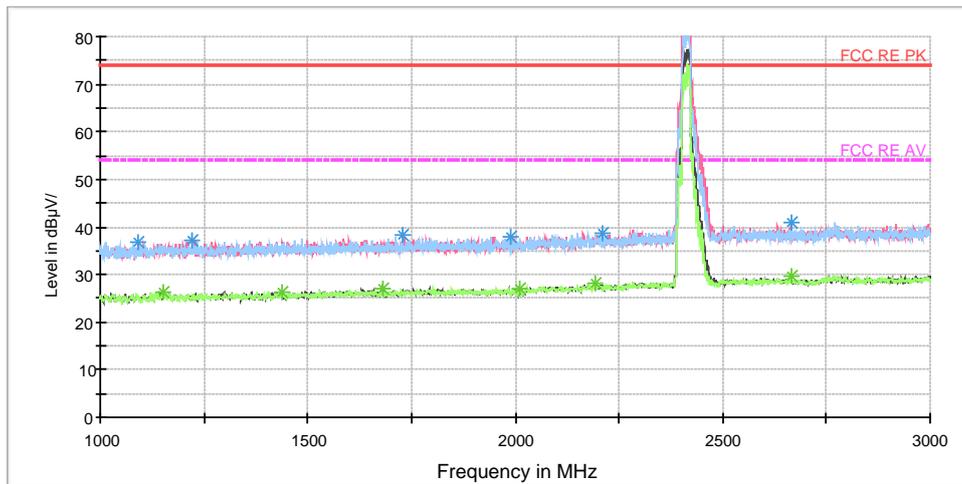
RE 30M-1GHz QP



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)
41.656847	28.1	100.0	V	258.0	48.5	-20.4	11.9	40.0
53.951534	19.1	100.0	V	200.0	40.0	-20.9	20.9	40.0
108.378575	3.9	125.0	V	12.0	29.8	-25.9	39.6	43.5
297.010000	19.4	122.0	H	270.0	42.8	-23.4	26.6	46.0
519.751250	16.4	100.0	H	207.0	35.4	-19.0	29.6	46.0
891.035750	17.6	100.0	H	22.0	30.2	-12.6	28.4	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

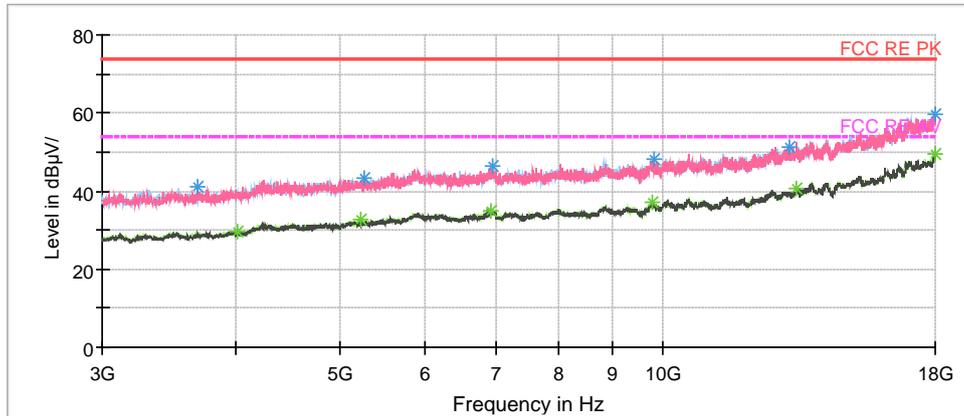
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1093.000000	36.9	150	V	356.0	47.9	-11.0	37.1	74
1223.000000	37.3	150	H	4.0	47.8	-10.5	36.7	74
1730.000000	38.3	150	H	4.0	46.9	-8.6	35.7	74
1990.500000	38.0	150	H	82.0	45.9	-7.9	36.0	74
2209.000000	38.5	150	V	251.0	45.1	-6.6	35.5	74
2664.000000	40.9	150	V	48.0	45.5	-4.6	33.1	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)
1151.500000	26.4	150	V	282.0	37.2	-10.8	27.6	54
1438.000000	26.2	150	V	325.0	35.9	-9.7	27.8	54
1683.000000	26.9	150	V	0.0	35.7	-8.8	27.1	54
2013.000000	27.2	150	H	253.0	34.9	-7.7	26.8	54
2192.500000	28.2	150	V	0.0	34.8	-6.6	25.8	54
2664.000000	29.9	150	V	48.0	34.5	-4.6	24.1	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

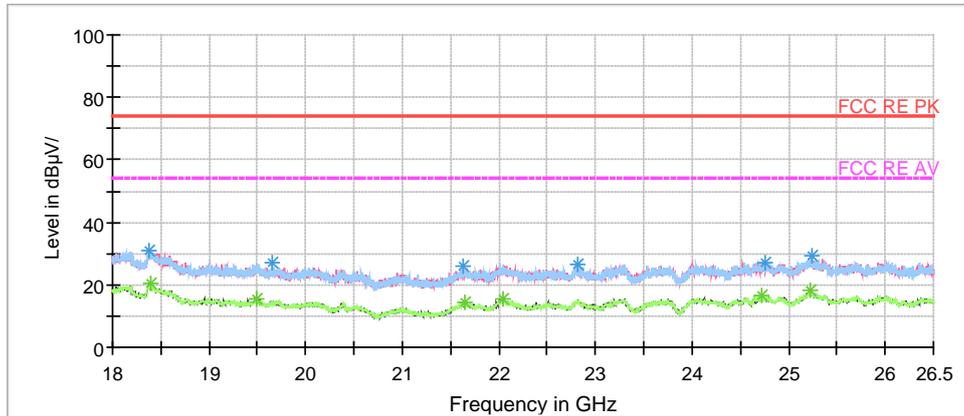
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4018.125000	38.1	150	H	179.0	38.6	0.5	35.9	74
5227.500000	42.3	150	V	0.0	46.0	3.7	31.7	74
6916.875000	44.7	150	H	180.0	51.6	6.9	29.3	74
9808.125000	45.5	150	V	0.0	57.7	12.2	28.5	74
13351.875000	49.2	150	V	135.0	65.0	15.8	24.8	74
17973.750000	59.2	150	V	0.0	84.3	25.1	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)
4018.125000	29.8	150	H	179.0	30.3	0.5	24.2	54
5227.500000	32.8	150	V	0.0	36.5	3.7	21.2	54
6916.875000	35.1	150	H	180.0	42.0	6.9	18.9	54
9808.125000	37.3	150	V	0.0	49.5	12.2	16.7	54
13351.875000	40.7	150	V	135.0	56.5	15.8	13.3	54
17973.750000	49.5	150	V	0.0	74.6	25.1	4.5	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)
18403.750000	28.8	H	180.0	33.7	-4.9	45.2	74
19488.562500	25.8	V	0.0	33.5	-7.7	48.2	74
21647.562500	22.7	V	0.0	31.9	-9.2	51.3	74
22041.750000	25.2	V	0.0	33.2	-8.0	48.8	74
24727.750000	25.6	H	193.0	31.8	-6.2	48.4	74
25222.875000	26.9	H	288.0	32.8	-5.9	47.1	74

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

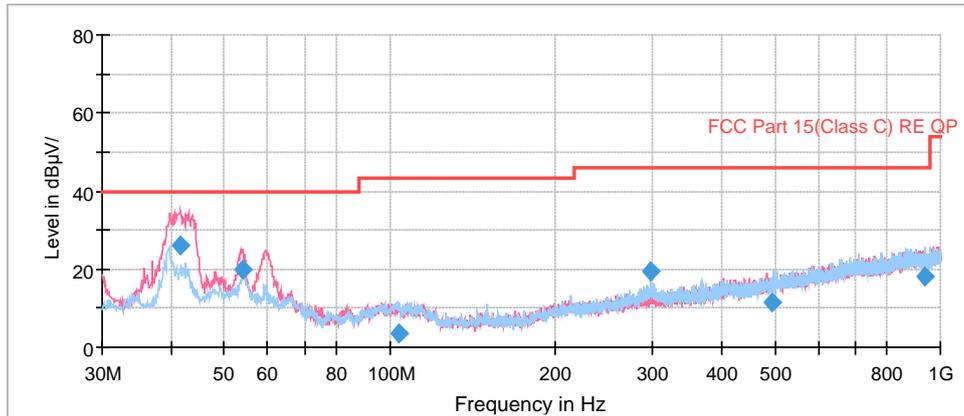
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18403.750000	20.3	H	180.0	25.2	-4.9	33.7	54
19488.562500	15.5	V	0.0	23.2	-7.7	38.5	54
21647.562500	14.2	V	0.0	23.4	-9.2	39.8	54
22041.750000	15.5	V	0.0	23.5	-8.0	38.5	54
24727.750000	16.5	H	193.0	22.7	-6.2	37.5	54
25222.875000	18.1	H	288.0	24.0	-5.9	35.9	54

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



802.11n (HT20) CH6

RE 30M-1GHz QP



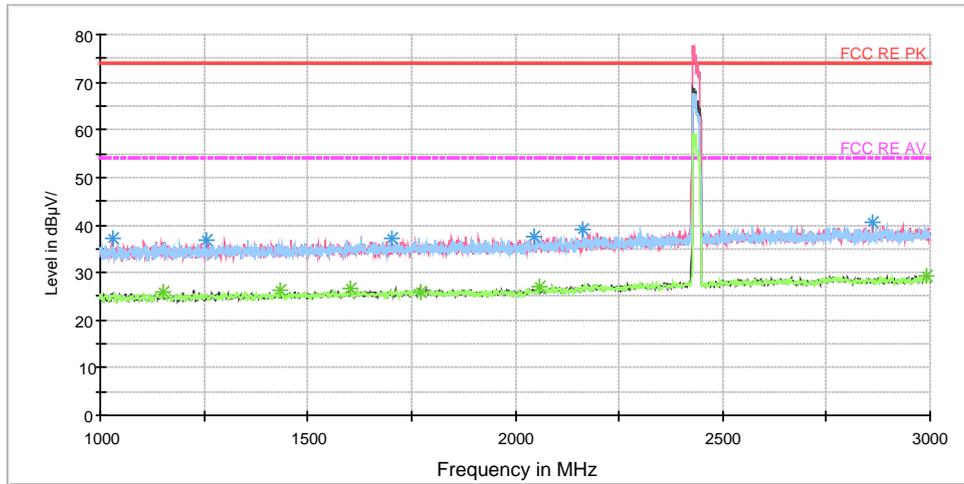
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
41.615900	26.1	100.0	V	316.0	46.5	-20.4	13.9	40.0
53.993428	19.7	100.0	V	218.0	40.6	-20.9	20.3	40.0
103.903540	3.5	123.0	H	36.0	29.2	-25.7	40.0	43.5
297.010000	19.6	122.0	H	350.0	43.0	-23.4	26.4	46.0
495.367750	11.4	100.0	H	195.0	30.7	-19.3	34.6	46.0
937.598000	17.9	101.0	H	205.0	31.0	-13.1	28.1	46.0

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

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

3. Margin = Limit – Quasi-Peak



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)
1151.500000	33.8	151	V	86.0	44.6	-10.8	40.2	74
1436.000000	35.2	151	V	38.0	44.9	-9.7	38.8	74
1603.500000	34.9	151	H	30.0	43.9	-9.0	39.1	74
1773.000000	34.1	151	V	84.0	42.5	-8.4	39.9	74
2057.500000	36.1	151	H	15.0	43.5	-7.4	37.9	74
2990.000000	37.9	151	H	6.0	41.9	-4.0	36.1	74

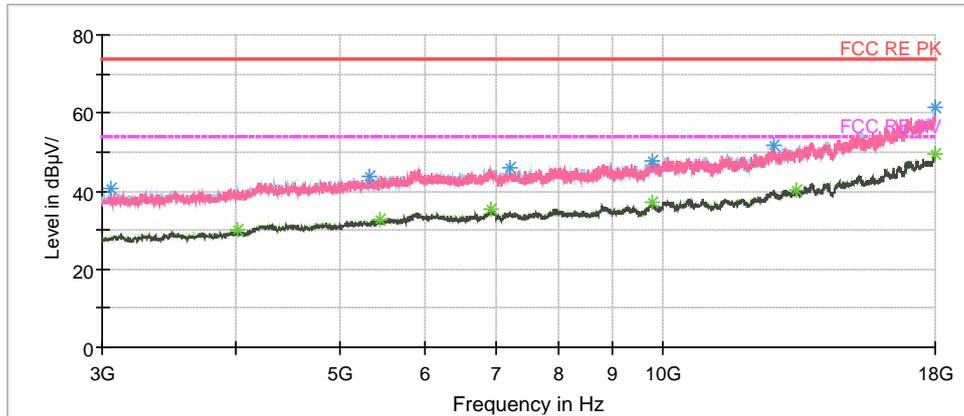
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1151.500000	26.0	151	V	86.0	36.8	-10.8	28.0	54
1436.000000	26.2	151	V	38.0	35.9	-9.7	27.8	54
1603.500000	26.7	151	H	30.0	35.7	-9.0	27.3	54
1773.000000	25.8	151	V	84.0	34.2	-8.4	28.2	54
2057.500000	26.9	151	H	15.0	34.3	-7.4	27.1	54
2990.000000	29.4	151	H	6.0	33.4	-4.0	24.6	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

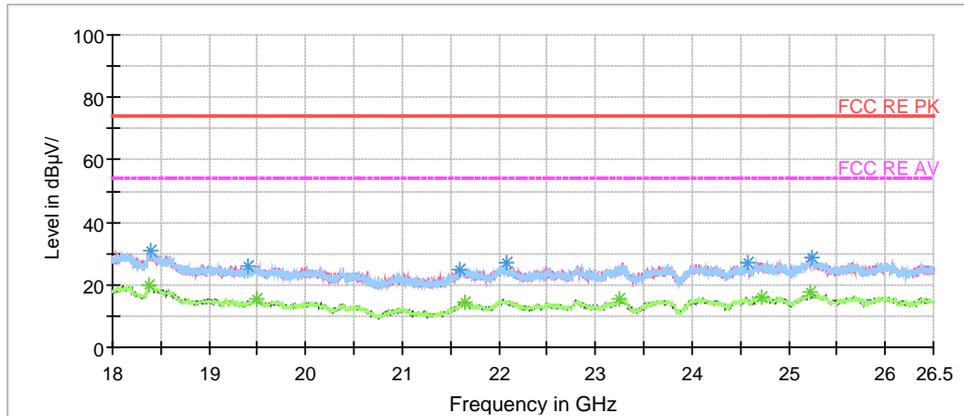
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4006.875000	40.5	151	H	180.0	41.0	0.5	33.5	74
5441.250000	40.2	151	H	180.0	44.0	3.8	33.8	74
6920.625000	43.8	151	V	0.0	50.7	6.9	30.2	74
9800.625000	46.0	151	V	34.0	58.3	12.3	28.0	74
13336.875000	49.7	151	H	180.0	65.4	15.7	24.3	74
17996.250000	58.2	151	V	0.0	83.6	25.4	15.8	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)
4006.875000	29.9	151	H	180.0	30.4	0.5	24.1	54
5441.250000	32.6	151	H	180.0	36.4	3.8	21.4	54
6920.625000	35.2	151	V	0.0	42.1	6.9	18.8	54
9800.625000	37.0	151	V	34.0	49.3	12.3	17.0	54
13336.875000	40.4	151	H	180.0	56.1	15.7	13.6	54
17996.250000	49.4	151	V	0.0	74.8	25.4	4.6	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18383.562500	29.1	V	315.0	33.9	-4.8	44.9	74
19488.562500	24.3	H	180.0	32.0	-7.7	49.7	74
21648.625000	22.9	H	265.0	32.1	-9.2	51.1	74
23248.750000	24.7	H	220.0	32.2	-7.5	49.3	74
24729.875000	25.3	V	0.0	31.5	-6.2	48.7	74
25221.812500	27.5	H	289.0	33.4	-5.9	46.5	74

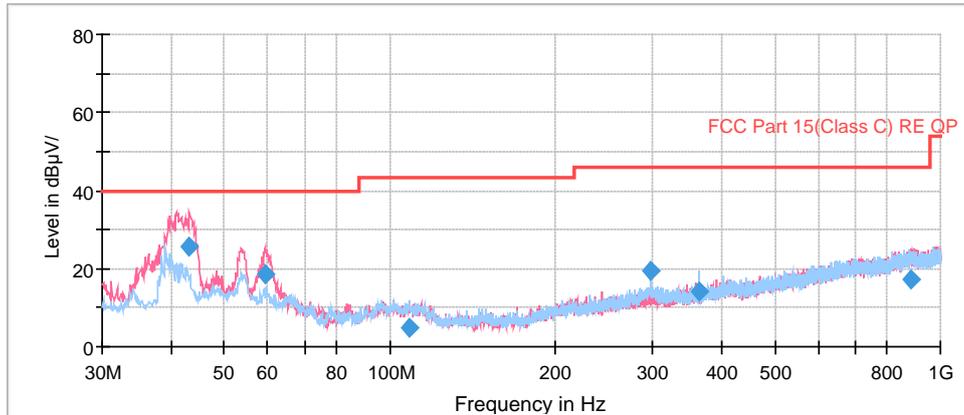
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18383.562500	20.0	V	315.0	24.8	-4.8	34.0	54
19488.562500	15.6	H	180.0	23.3	-7.7	38.4	54
21648.625000	14.2	H	265.0	23.4	-9.2	39.8	54
23248.750000	15.3	H	220.0	22.8	-7.5	38.7	54
24729.875000	16.2	V	0.0	22.4	-6.2	37.8	54
25221.812500	17.9	H	289.0	23.8	-5.9	36.1	54

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

802.11n (HT20) CH11

RE 30M-1GHz QP



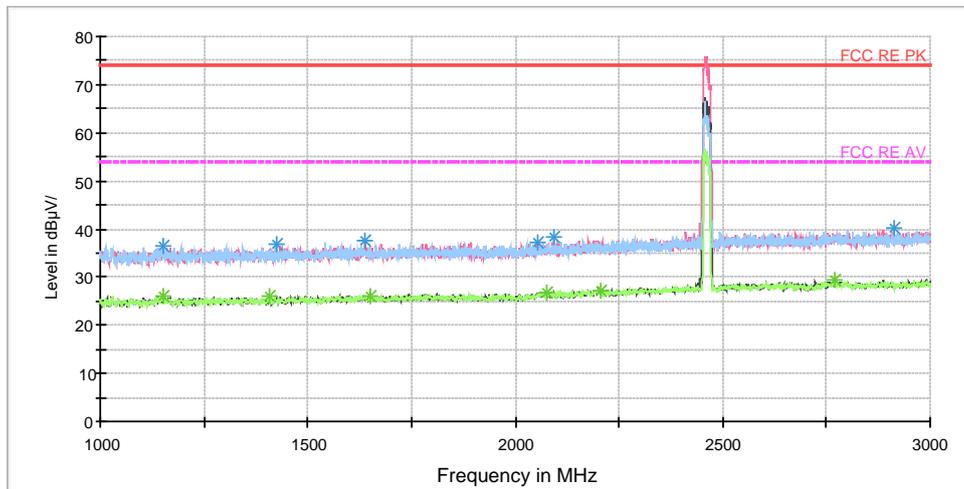
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
43.108210	25.8	100.0	V	241.0	46.4	-20.6	14.2	40.0
59.353197	18.6	100.0	V	191.0	41.6	-23.0	21.4	40.0
108.136681	5.1	125.0	H	0.0	31.0	-25.9	38.4	43.5
297.010000	19.4	122.0	H	275.0	42.8	-23.4	26.6	46.0
364.819250	14.1	100.0	H	306.0	36.4	-22.3	31.9	46.0
880.857500	17.3	123.0	V	179.0	30.2	-12.9	28.7	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



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)
1150.000000	35.3	150.0	V	86.0	46.1	-10.8	38.7	74
1409.000000	34.1	150.0	H	52.0	43.9	-9.8	39.9	74
1649.000000	33.9	150.0	V	50.0	42.7	-8.8	40.1	74
2075.000000	36.0	150.0	V	60.0	43.3	-7.3	38.0	74
2206.500000	35.8	150.0	V	68.0	42.4	-6.6	38.2	74
2769.500000	38.1	150.0	V	50.0	42.4	-4.3	35.9	74

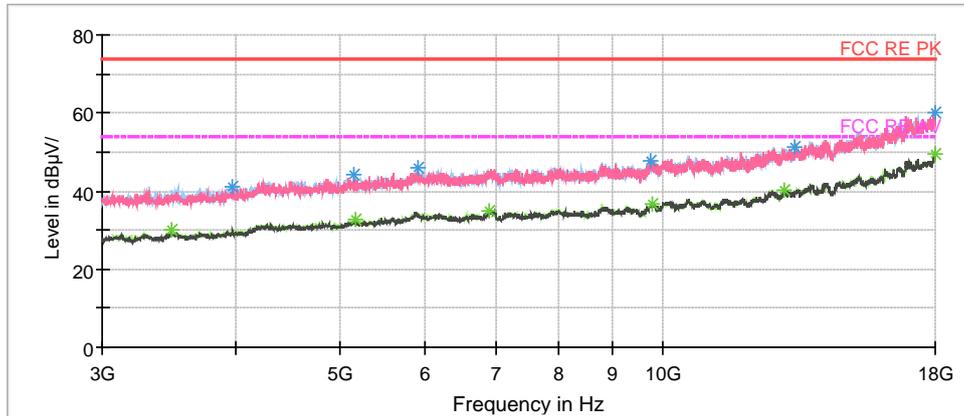
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1150.000000	26.1	150.0	V	86.0	36.9	-10.8	27.9	54
1409.000000	26.1	150.0	H	52.0	35.9	-9.8	27.9	54
1649.000000	26.2	150.0	V	50.0	35.0	-8.8	27.8	54
2075.000000	26.9	150.0	V	60.0	34.2	-7.3	27.1	54
2206.500000	27.2	150.0	V	68.0	33.8	-6.6	26.8	54
2769.500000	29.4	150.0	V	50.0	33.7	-4.3	24.6	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

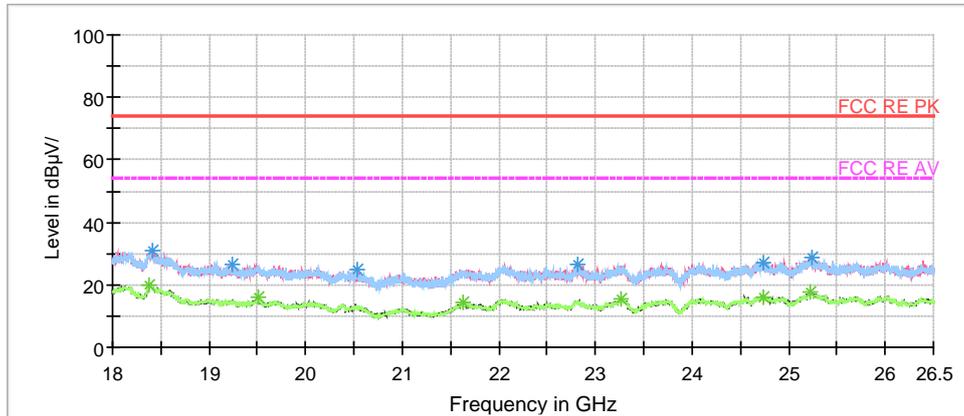
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3483.750000	38.8	150.0	V	47.0	39.4	-0.6	35.2	74
5182.500000	42.8	150.0	V	61.0	46.4	3.6	31.2	74
6890.625000	44.2	150.0	H	171.0	51.1	6.9	29.8	74
9810.000000	45.7	150.0	V	0.0	57.9	12.2	28.3	74
13010.625000	49.4	150.0	H	171.0	65.6	16.2	24.6	74
17998.125000	59.6	150.0	H	93.0	85.0	25.4	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)
3483.750000	30.0	150.0	V	47.0	30.6	-0.6	24.0	54
5182.500000	32.6	150.0	V	61.0	36.2	3.6	21.4	54
6890.625000	35.0	150.0	H	171.0	41.9	6.9	19.0	54
9810.000000	36.8	150.0	V	0.0	49.0	12.2	17.2	54
13010.625000	40.4	150.0	H	171.0	56.6	16.2	13.6	54
17998.125000	49.5	150.0	H	93.0	74.9	25.4	4.5	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)
18377.187500	29.3	H	245.0	34.1	-4.8	44.7	74
19503.437500	24.1	H	180.0	31.6	-7.5	49.9	74
21634.812500	24.1	H	237.0	33.2	-9.1	49.9	74
23262.562500	23.9	V	0.0	31.2	-7.3	50.1	74
24732.000000	26.0	H	220.0	32.3	-6.3	48.0	74
25225.000000	28.2	H	220.0	34.1	-5.9	45.8	74

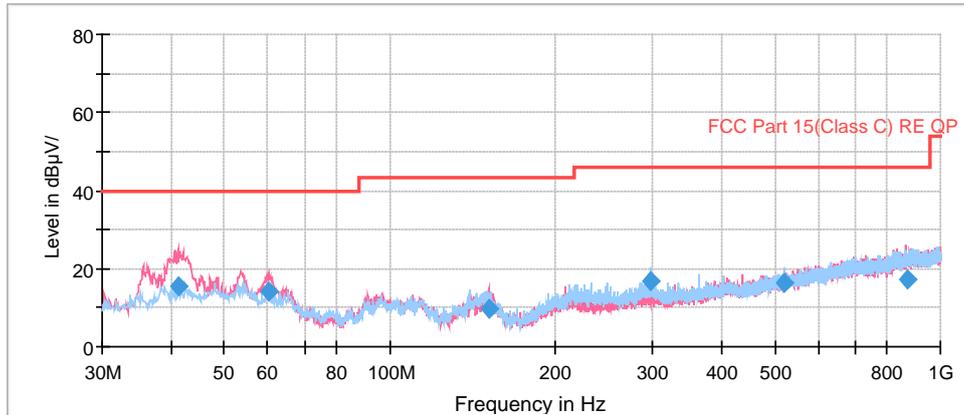
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18377.187500	20.0	H	245.0	24.8	-4.8	34.0	54
19503.437500	15.9	H	180.0	23.4	-7.5	38.1	54
21634.812500	14.2	H	237.0	23.3	-9.1	39.8	54
23262.562500	15.3	V	0.0	22.6	-7.3	38.7	54
24732.000000	16.2	H	220.0	22.5	-6.3	37.8	54
25225.000000	18.0	H	220.0	23.9	-5.9	36.0	54

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

BLE-Channel 0

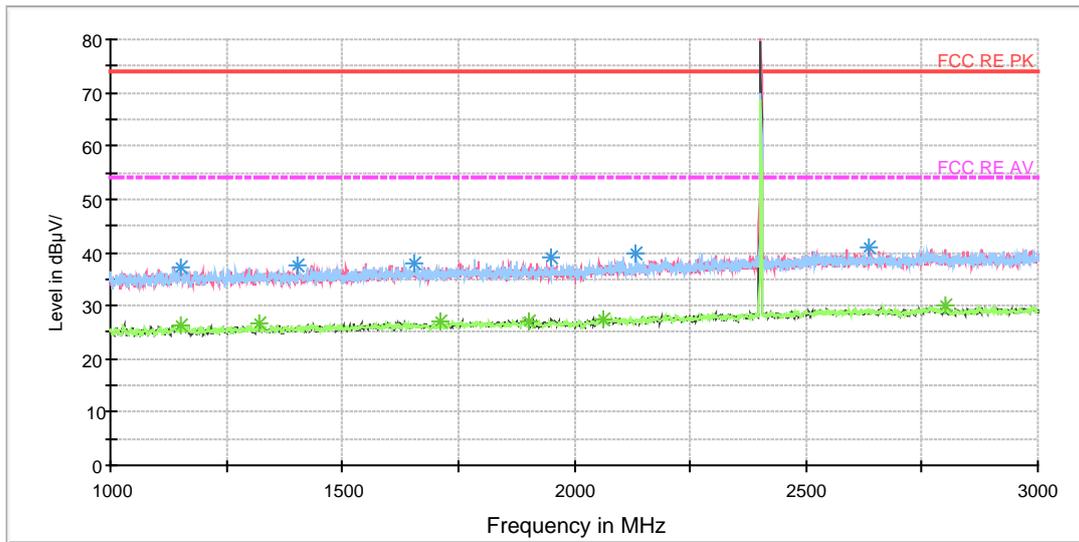
RE 30M-1GHz QP



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)
41.172112	15.4	101.0	V	188.0	35.9	-20.5	24.6	40.0
60.119825	14.1	102.0	V	112.0	37.3	-23.2	25.9	40.0
151.229981	9.9	99.0	V	198.0	39.1	-29.2	33.6	43.5
297.010000	16.8	125.0	H	221.0	40.2	-23.4	29.2	46.0
519.750500	16.3	101.0	H	23.0	35.3	-19.0	29.7	46.0
868.148000	17.3	101.0	V	223.0	30.2	-12.9	28.7	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



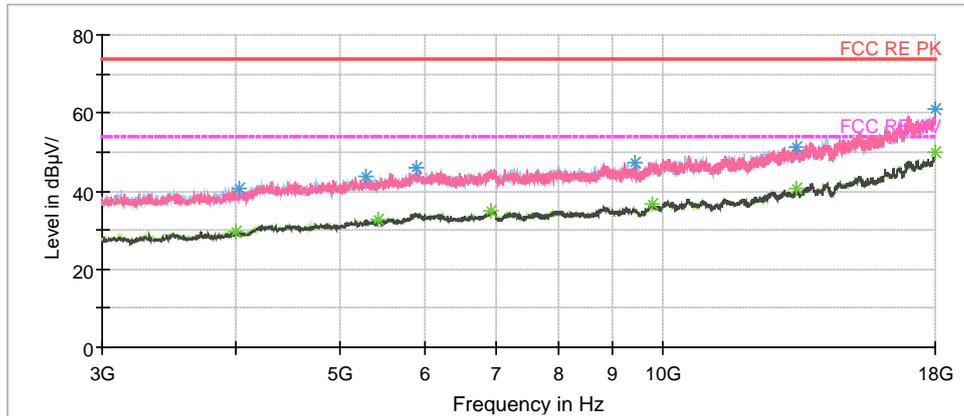
Radiates Emission from 1GHz to 3GHz
 Note: The signal beyond the limit is carrier.

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1150.500000	37.0	150.0	H	80.0	47.8	-10.8	37.0	74
1405.000000	37.6	150.0	V	331.0	47.4	-9.8	36.4	74
1655.000000	37.9	150.0	H	0.0	46.7	-8.8	36.1	74
1950.000000	39.0	150.0	V	228.0	47.0	-8.0	35.0	74
2134.000000	39.6	150.0	H	51.0	46.5	-6.9	34.4	74
2636.000000	41.0	150.0	V	318.0	45.6	-4.6	33.0	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1150.500000	25.9	150.0	H	80.0	36.7	-10.8	28.1	54
1405.000000	25.7	150.0	V	331.0	35.5	-9.8	28.3	54
1655.000000	26.2	150.0	H	0.0	35.0	-8.8	27.8	54
1950.000000	26.6	150.0	V	228.0	34.6	-8.0	27.4	54
2134.000000	27.4	150.0	H	51.0	34.3	-6.9	26.6	54
2636.000000	28.7	150.0	V	318.0	33.3	-4.6	25.3	54

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

RE 3-18GHz PK+AV



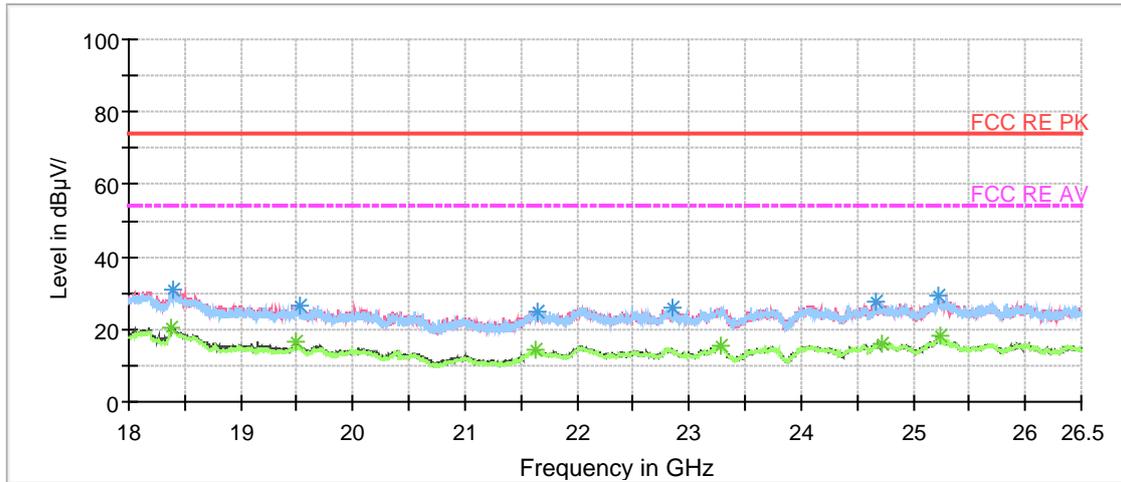
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3997.500000	38.0	150.0	V	45.0	38.5	0.5	36.0	74
5437.500000	41.0	150.0	H	121.0	44.8	3.8	33.0	74
6913.125000	43.8	150.0	V	45.0	50.7	6.9	30.2	74
9810.000000	45.2	150.0	H	203.0	57.4	12.2	28.8	74
13344.375000	48.6	150.0	H	151.0	64.3	15.7	25.4	74
17996.250000	59.6	150.0	H	225.0	85.0	25.4	14.4	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3997.500000	29.8	150.0	V	45.0	30.3	0.5	24.2	54
5437.500000	32.7	150.0	H	121.0	36.5	3.8	21.3	54
6913.125000	35.0	150.0	V	45.0	41.9	6.9	19.0	54
9810.000000	36.8	150.0	H	203.0	49.0	12.2	17.2	54
13344.375000	40.5	150.0	H	151.0	56.2	15.7	13.5	54
17996.250000	49.8	150.0	H	225.0	75.2	25.4	4.2	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)
18372.937500	29.4	V	270.0	34.2	-4.8	44.6	74
19492.812500	25.7	V	116.0	33.3	-7.6	48.3	74
21628.437500	22.7	V	125.0	31.8	-9.1	51.3	74
23283.812500	24.2	V	143.0	31.3	-7.1	49.8	74
24718.187500	25.6	V	270.0	32.0	-6.4	48.4	74
25236.687500	26.6	H	91.0	32.7	-6.1	47.4	74

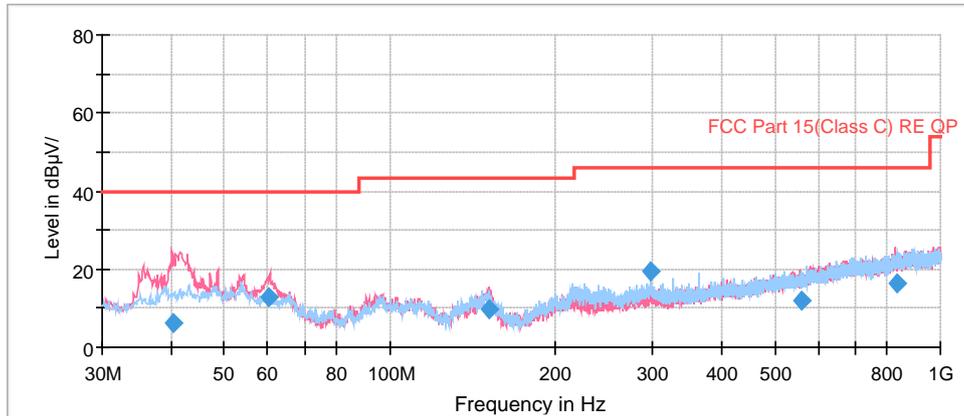
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18372.937500	20.4	V	270.0	25.2	-4.8	33.6	54
19492.812500	16.3	V	116.0	23.9	-7.6	37.7	54
21628.437500	14.5	V	125.0	23.6	-9.1	39.5	54
23283.812500	15.4	V	143.0	22.5	-7.1	38.6	54
24718.187500	16.2	V	270.0	22.6	-6.4	37.8	54
25236.687500	18.1	H	91.0	24.2	-6.1	35.9	54

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



Middle Energy-Channel 19

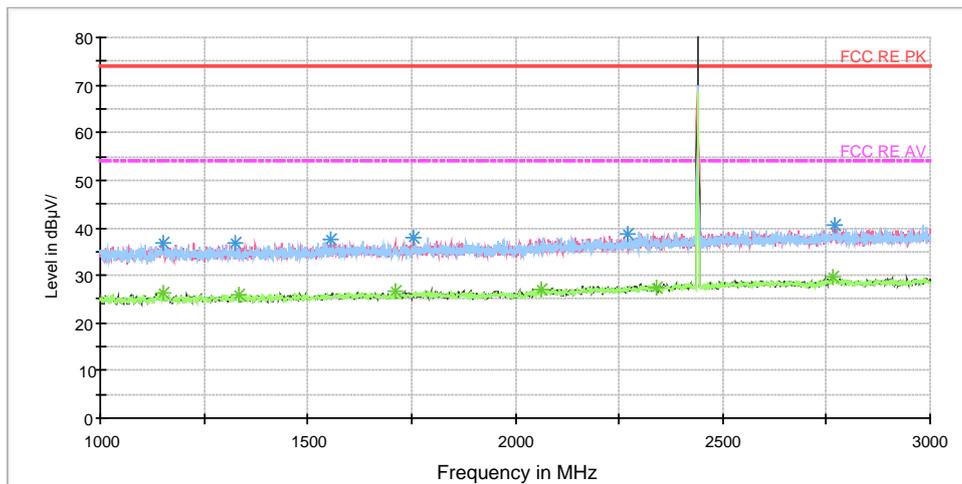
RE 30M-1GHz QP



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)
40.285463	6.1	102.0	V	19.0	26.8	-20.7	33.9	40.0
60.403612	12.8	101.0	V	126.0	36.0	-23.2	27.2	40.0
151.472822	9.6	101.0	V	201.0	38.8	-29.2	33.9	43.5
297.010000	19.4	123.0	H	111.0	42.8	-23.4	26.6	46.0
558.482750	12.0	124.0	V	195.0	30.4	-18.4	34.0	46.0
832.014500	16.6	101.0	V	22.0	30.4	-13.8	29.4	46.0

- Remark:**
1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak



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

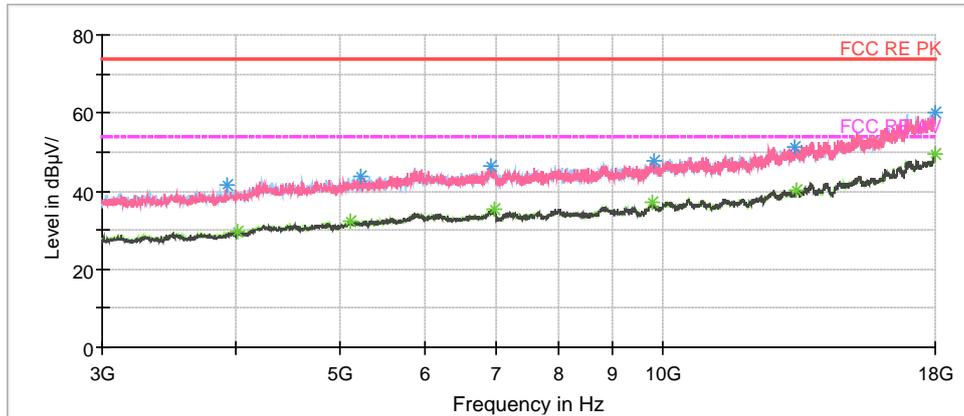
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1151.500000	35.1	150.0	V	88.0	45.9	-10.8	38.9	74
1332.000000	33.8	150.0	V	90.0	43.8	-10.0	40.2	74
1709.500000	34.8	150.0	H	6.0	43.5	-8.7	39.2	74
2062.000000	36.2	150.0	H	1.0	43.6	-7.4	37.8	74
2342.500000	36.0	150.0	V	90.0	41.9	-5.9	38.0	74
2766.000000	39.0	150.0	H	14.0	43.3	-4.3	35.0	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1151.500000	26.2	150.0	V	88.0	37.0	-10.8	27.8	54
1332.000000	26.1	150.0	V	90.0	36.1	-10.0	27.9	54
1709.500000	26.7	150.0	H	6.0	35.4	-8.7	27.3	54
2062.000000	27.0	150.0	H	1.0	34.4	-7.4	27.0	54
2342.500000	27.5	150.0	V	90.0	33.4	-5.9	26.5	54
2766.000000	29.5	150.0	H	14.0	33.8	-4.3	24.5	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

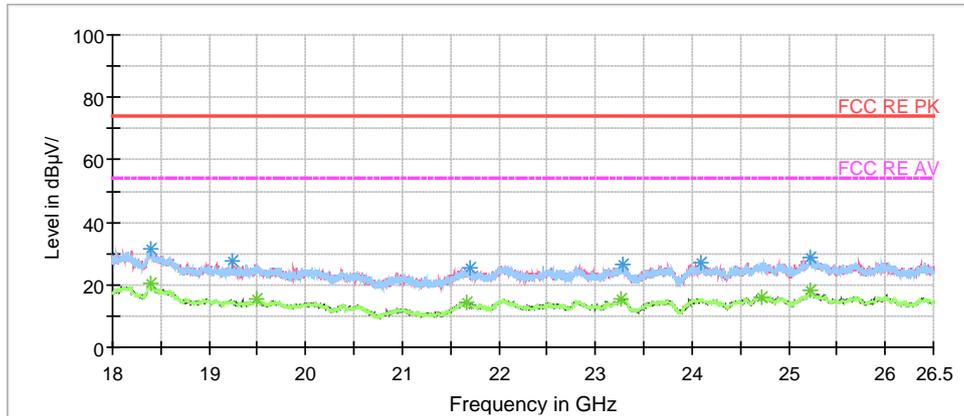
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4014.375000	38.4	150.0	H	270.0	38.9	0.5	35.6	74
5122.500000	41.2	150.0	H	196.0	44.8	3.6	32.8	74
6978.750000	45.0	150.0	V	90.0	51.5	6.5	29.0	74
9800.625000	46.4	150.0	V	90.0	58.7	12.3	27.6	74
13336.875000	49.3	150.0	V	209.0	65.0	15.7	24.7	74
17996.250000	59.3	150.0	H	270.0	84.7	25.4	14.7	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4014.375000	29.8	150.0	H	270.0	30.3	0.5	24.2	54
5122.500000	32.5	150.0	H	196.0	36.1	3.6	21.5	54
6978.750000	35.3	150.0	V	90.0	41.8	6.5	18.7	54
9800.625000	37.1	150.0	V	90.0	49.4	12.3	16.9	54
13336.875000	40.3	150.0	V	209.0	56.0	15.7	13.7	54
17996.250000	49.4	150.0	H	270.0	74.8	25.4	4.6	54

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



RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18393.125000	31.4	H	183.0	36.3	-4.9	42.6	74
19498.125000	25.1	H	90.0	32.6	-7.5	48.9	74
21660.312500	23.2	H	122.0	32.4	-9.2	50.8	74
23258.312500	24.5	V	270.0	31.9	-7.4	49.5	74
24724.562500	24.9	V	144.0	31.1	-6.2	49.1	74
25227.125000	27.7	V	153.0	33.6	-5.9	46.3	74

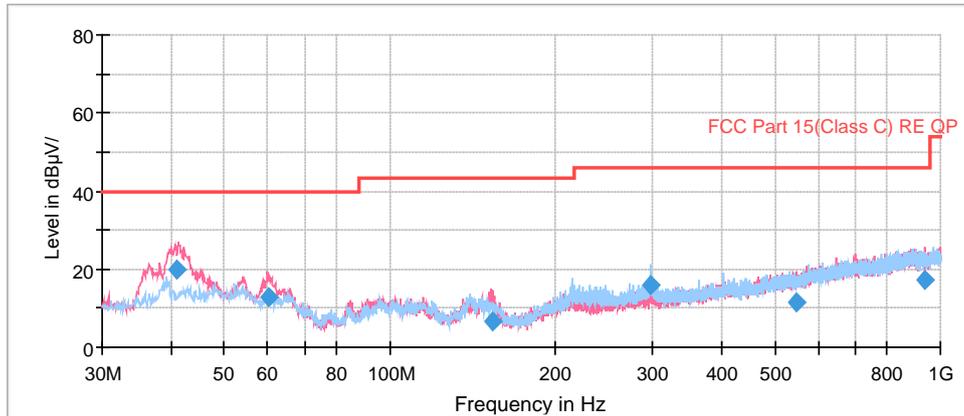
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18393.125000	20.3	H	183.0	25.2	-4.9	33.7	54
19498.125000	15.2	H	90.0	22.7	-7.5	38.8	54
21660.312500	14.3	H	122.0	23.5	-9.2	39.7	54
23258.312500	15.5	V	270.0	22.9	-7.4	38.5	54
24724.562500	16.2	V	144.0	22.4	-6.2	37.8	54
25227.125000	18.0	V	153.0	23.9	-5.9	36.0	54

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



High Energy-Channel 39

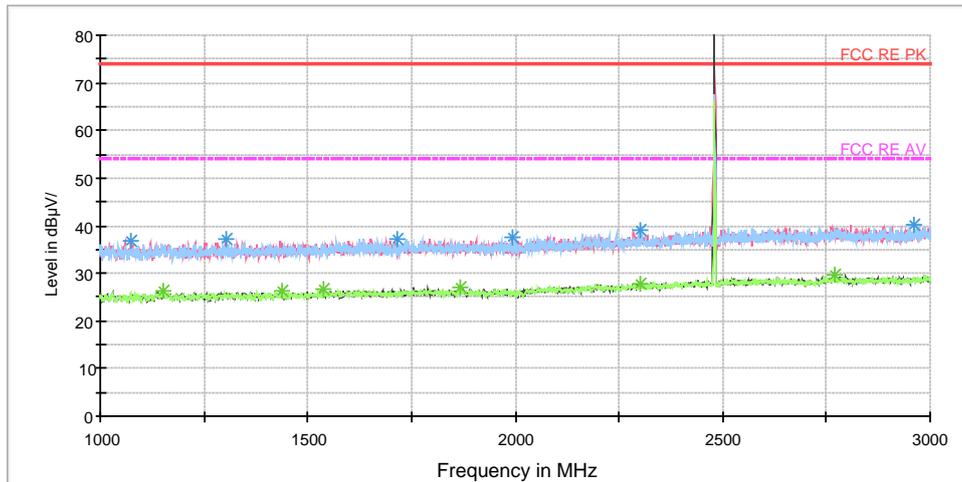
RE 30M-1GHz QP



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)
41.052112	19.8	101.0	V	166.0	40.3	-20.5	20.2	40.0
60.078878	12.8	101.0	V	60.0	36.0	-23.2	27.2	40.0
153.245131	6.6	127.0	V	222.0	35.8	-29.2	36.9	43.5
297.010000	15.9	126.0	H	224.0	39.3	-23.4	30.1	46.0
548.610000	11.5	122.0	V	190.0	29.8	-18.3	34.5	46.0
934.928750	17.2	101.0	V	211.0	30.3	-13.1	28.8	46.0

- Remark:**
1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak



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

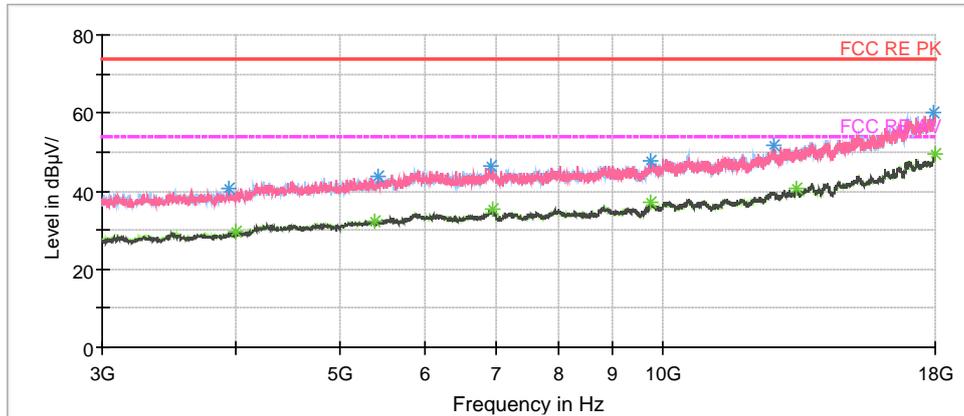
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1151.500000	35.0	150.0	V	50.0	45.8	-10.8	39.0	74
1438.000000	34.3	150.0	H	2.0	44.0	-9.7	39.7	74
1539.500000	35.7	150.0	H	1.0	45.0	-9.3	38.3	74
1867.000000	35.2	150.0	V	88.0	43.4	-8.2	38.8	74
2302.500000	37.1	150.0	V	90.0	43.1	-6.0	36.9	74
2771.500000	38.7	150.0	H	9.0	43.0	-4.3	35.3	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1151.500000	26.3	150.0	V	50.0	37.1	-10.8	27.7	54
1438.000000	26.1	150.0	H	2.0	35.8	-9.7	27.9	54
1539.500000	26.8	150.0	H	1.0	36.1	-9.3	27.2	54
1867.000000	27.0	150.0	V	88.0	35.2	-8.2	27.0	54
2302.500000	27.8	150.0	V	90.0	33.8	-6.0	26.2	54
2771.500000	29.7	150.0	H	9.0	34.0	-4.3	24.3	54

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



RE 3-18GHz PK+AV



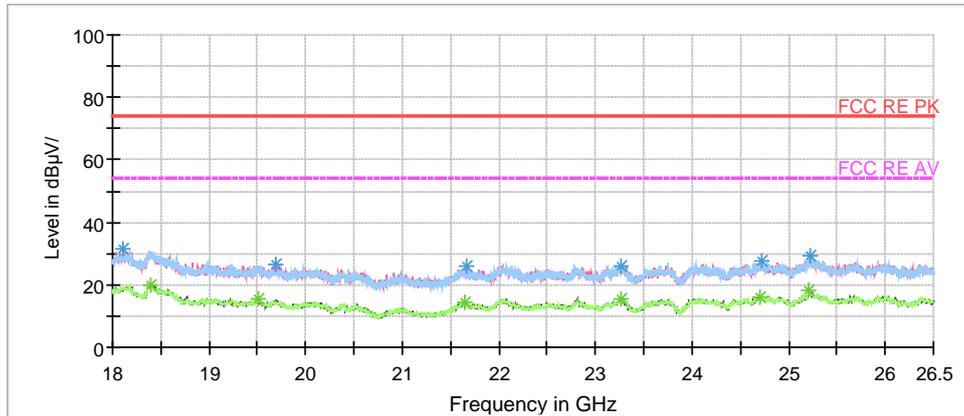
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4003.125000	38.5	150.0	H	270.0	39.0	0.5	35.5	74
5388.750000	41.5	150.0	H	217.0	45.2	3.7	32.5	74
6945.000000	44.5	150.0	V	162.0	51.2	6.7	29.5	74
9757.500000	47.5	150.0	V	90.0	59.2	11.7	26.5	74
13346.250000	49.7	150.0	V	90.0	65.5	15.8	24.3	74
17985.000000	59.0	150.0	H	270.0	84.2	25.2	15.0	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4003.125000	29.8	150.0	H	270.0	30.3	0.5	24.2	54
5388.750000	32.4	150.0	H	217.0	36.1	3.7	21.6	54
6945.000000	35.4	150.0	V	162.0	42.1	6.7	18.6	54
9757.500000	37.1	150.0	V	90.0	48.8	11.7	16.9	54
13346.250000	40.5	150.0	V	90.0	56.3	15.8	13.5	54
17985.000000	49.6	150.0	H	270.0	74.8	25.2	4.4	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18388.875000	28.9	V	267.0	33.8	-4.9	45.1	74
19510.875000	25.3	H	90.0	32.8	-7.5	48.7	74
21655.000000	23.4	H	90.0	32.6	-9.2	50.6	74
23273.187500	24.3	H	208.0	31.5	-7.2	49.7	74
24711.812500	25.3	H	226.0	31.9	-6.6	48.7	74
25214.375000	27.2	V	270.0	33.3	-6.1	46.8	74

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18388.875000	20.0	V	267.0	24.9	-4.9	34.0	54
19510.875000	15.7	H	90.0	23.2	-7.5	38.3	54
21655.000000	14.2	H	90.0	23.4	-9.2	39.8	54
23273.187500	15.3	H	208.0	22.5	-7.2	38.7	54
24711.812500	16.2	H	226.0	22.8	-6.6	37.8	54
25214.375000	18.0	V	270.0	24.1	-6.1	36.0	54

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

5.8. Conducted Emission

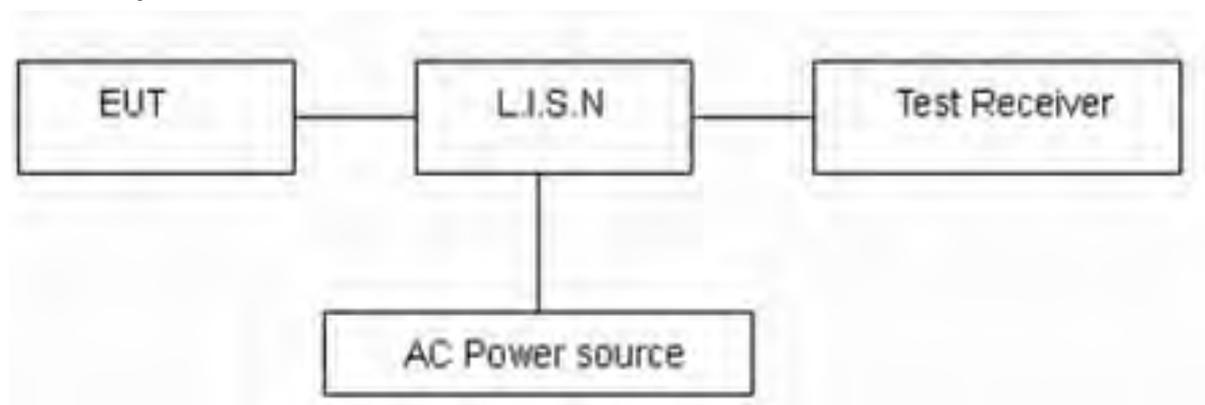
Ambient condition

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

Methods of Measurement

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

Test Setup



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

Limits

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

*: Decreases with the logarithm of the frequency.

Measurement Uncertainty

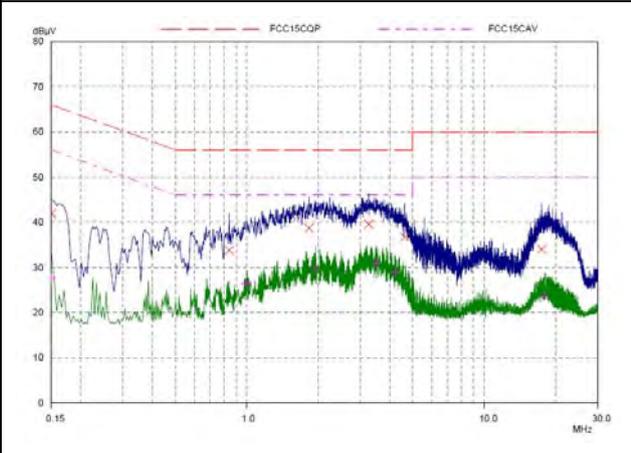
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.



Test Results:

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

802.11b, Channel No.: 1 L Line

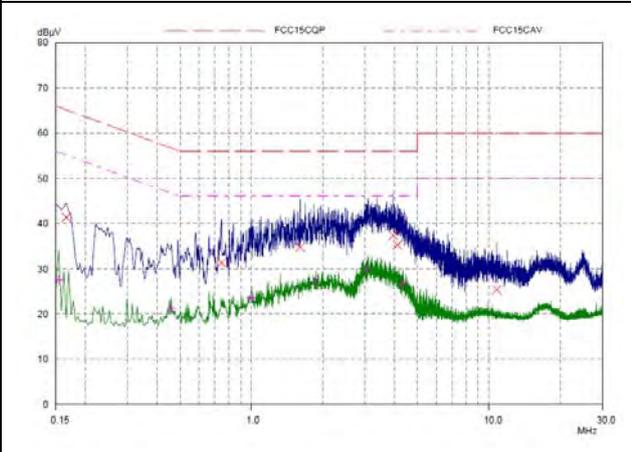


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.15	41.90	66.00	24.10	L1	gnd
0.8414	33.79	56.00	22.21	L1	gnd
1.82578	38.71	56.00	17.29	L1	gnd
3.26328	39.54	56.00	16.46	L1	gnd
4.61484	36.73	56.00	19.27	L1	gnd
17.43906	34.02	60.00	25.98	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.15	27.56	56.00	28.44	L1	gnd
0.99765	26.42	46.00	19.58	L1	gnd
1.94687	29.68	46.00	16.32	L1	gnd
3.50937	30.92	46.00	15.08	L1	gnd
4.20468	29.01	46.00	16.99	L1	gnd
17.94296	23.71	50.00	26.29	L1	gnd

802.11b, Channel No.: 1 N Line

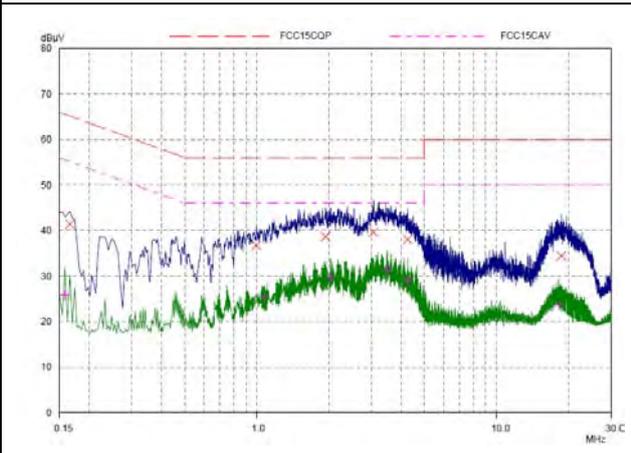


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16562	41.39	65.18	23.79	N	gnd
0.74765	31.31	56.00	24.69	N	gnd
1.60312	34.79	56.00	21.21	N	gnd
3.95078	37.38	56.00	18.62	N	gnd
4.11875	35.30	56.00	20.70	N	gnd
10.78671	25.36	60.00	34.64	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.1539	27.56	55.79	28.23	N	gnd
0.45859	21.21	46.72	25.51	N	gnd
1.00156	23.56	46.00	22.44	N	gnd
1.86875	27.21	46.00	18.79	N	gnd
3.07968	29.88	46.00	16.12	N	gnd
4.34921	26.74	46.00	19.26	N	gnd

802.11b, Channel No.: 6 L Line



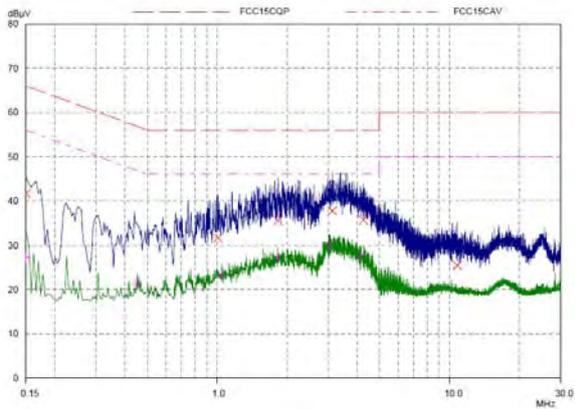
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16562	41.41	65.18	23.77	L1	gnd
0.99375	36.74	56.00	19.26	L1	gnd
1.93125	38.65	56.00	17.35	L1	gnd
3.06796	39.62	56.00	16.38	L1	gnd
4.25546	38.05	56.00	17.95	L1	gnd
18.6539	34.44	60.00	25.56	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.15781	25.91	55.58	29.67	L1	gnd
1.07187	25.29	46.00	20.71	L1	gnd
2.0289	29.59	46.00	16.41	L1	gnd
3.48984	31.36	46.00	14.64	L1	gnd
4.25546	29.07	46.00	16.93	L1	gnd
18.22031	23.59	50.00	26.41	L1	gnd



802.11b, Channel No.: 6 N Line

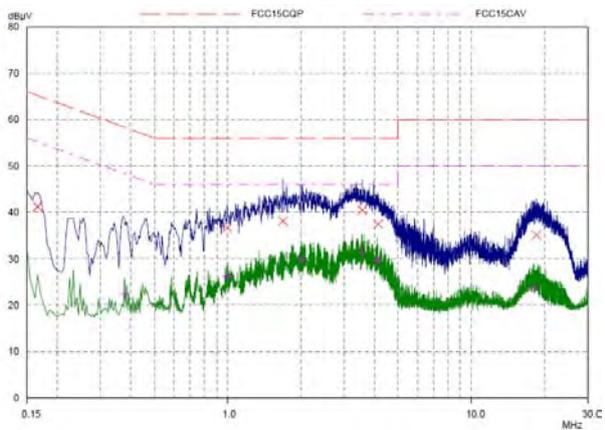


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.15	41.72	66.00	24.28	N	gnd
1.00546	31.62	56.00	24.38	N	gnd
1.82578	35.57	56.00	20.43	N	gnd
3.12656	37.80	56.00	18.20	N	gnd
4.25937	35.65	56.00	20.35	N	gnd
10.78671	25.44	60.00	34.56	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.15	27.28	56.00	28.72	N	gnd
0.45078	21.32	46.86	25.54	N	gnd
1.04453	23.43	46.00	22.57	N	gnd
1.81796	27.09	46.00	18.91	N	gnd
3.04843	30.04	46.00	15.96	N	gnd
4.1578	27.54	46.00	18.46	N	gnd

802.11b, Channel No.: 11 L Line

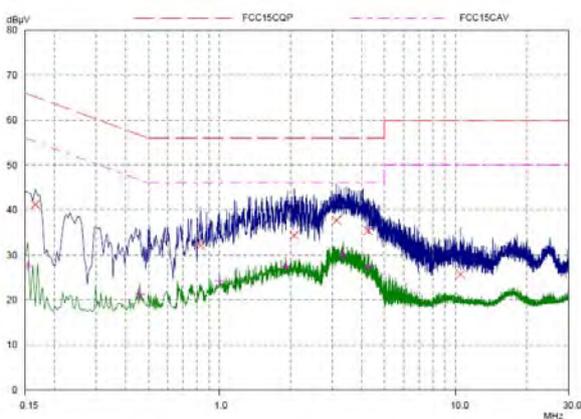


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16562	41.21	65.18	23.97	L1	gnd
0.99375	36.68	56.00	19.32	L1	gnd
1.68125	38.13	56.00	17.87	L1	gnd
3.56406	40.47	56.00	15.53	L1	gnd
4.14217	37.46	56.00	18.54	L1	gnd
18.49375	35.13	60.00	24.87	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.37856	22.24	48.35	26.11	L1	gnd
0.99765	26.29	46.00	19.71	L1	gnd
2.01718	29.85	46.00	16.15	L1	gnd
3.54843	31.36	46.00	14.64	L1	gnd
4.11484	29.64	46.00	16.36	L1	gnd
17.98203	23.62	50.00	26.38	L1	gnd

802.11b, Channel No.: 11 N Line



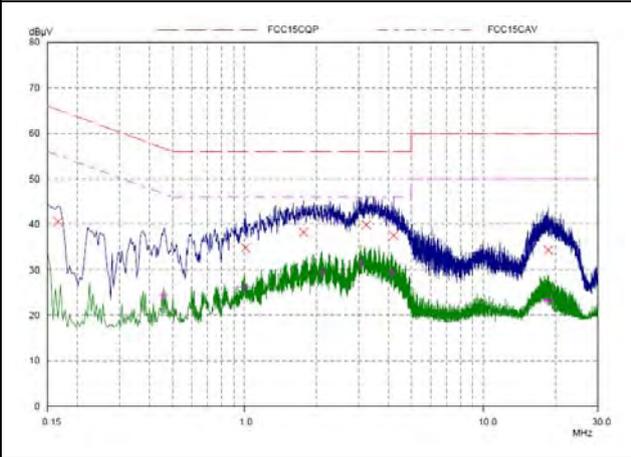
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16562	41.21	65.18	23.97	N	gnd
0.82968	32.13	56.00	23.87	N	gnd
2.07187	34.40	56.00	21.60	N	gnd
3.12265	37.74	56.00	18.26	N	gnd
4.25546	35.43	56.00	20.57	N	gnd
10.48203	25.73	60.00	34.27	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.1539	27.51	55.79	28.28	N	gnd
0.45859	21.26	46.72	25.46	N	gnd
0.99765	24.23	46.00	21.77	N	gnd
1.9039	27.43	46.00	18.57	N	gnd
3.3375	29.96	46.00	16.04	N	gnd
4.26328	27.32	46.00	18.68	N	gnd



802.11g, Channel No.: 1 L Line

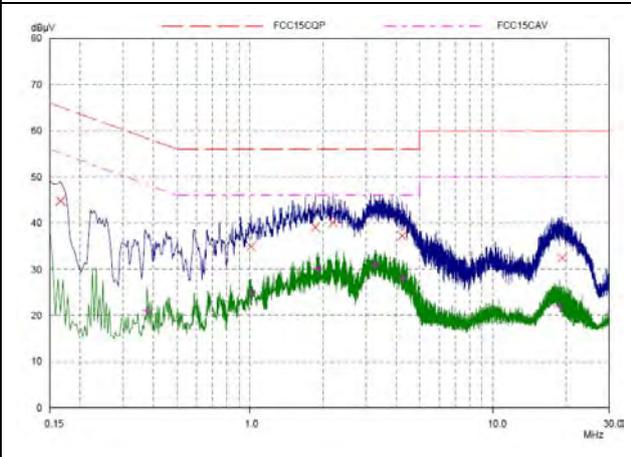


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16562	40.59	65.18	24.59	L1	gnd
1.00937	34.86	56.00	21.14	L1	gnd
1.76328	38.25	56.00	17.75	L1	gnd
3.22812	39.90	56.00	16.10	L1	gnd
4.20859	37.54	56.00	18.46	L1	gnd
18.65	34.34	60.00	25.66	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.45859	24.26	46.72	22.46	L1	gnd
0.99765	26.17	46.00	19.83	L1	gnd
2.10312	29.51	46.00	16.49	L1	gnd
3.06406	31.28	46.00	14.72	L1	gnd
4.13436	29.24	46.00	16.76	L1	gnd
18.54453	23.29	50.00	26.71	L1	gnd

802.11g, Channel No.: 1 N Line

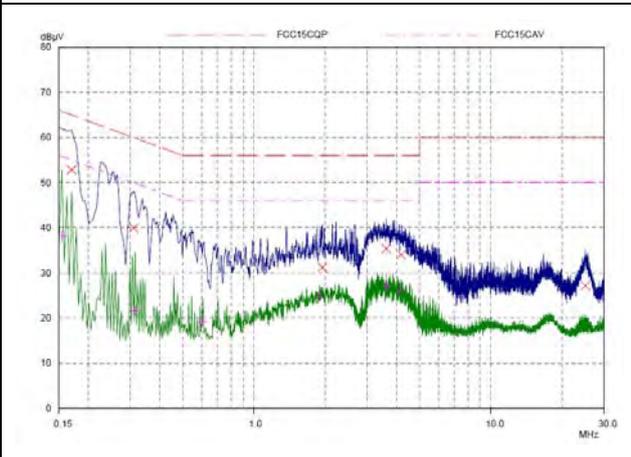


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16562	44.81	65.18	20.37	N	gnd
1.00937	34.98	56.00	21.02	N	gnd
1.85703	39.11	56.00	16.89	N	gnd
2.19296	40.06	56.00	15.94	N	gnd
4.22031	37.24	56.00	18.76	N	gnd
19.25546	32.45	60.00	27.55	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.37656	21.04	48.35	27.31	N	gnd
1.00937	24.85	46.00	21.15	N	gnd
1.90781	29.93	46.00	16.07	N	gnd
3.26718	31.06	46.00	14.94	N	gnd
4.24765	28.19	46.00	17.81	N	gnd
18.775	21.83	50.00	28.17	N	gnd

802.11g, Channel No.: 6 L Line



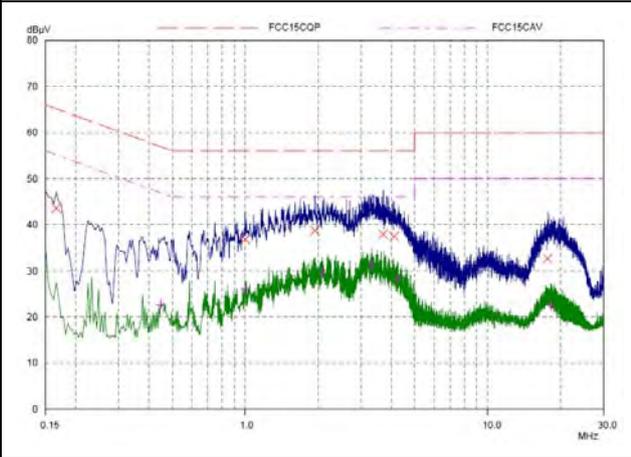
Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16953	52.84	64.98	12.14	L1	gnd
0.31015	39.94	59.97	20.03	L1	gnd
1.94296	31.19	56.00	24.81	L1	gnd
3.61484	35.39	56.00	20.61	L1	gnd
4.18515	34.02	56.00	21.98	L1	gnd
25.05234	27.16	60.00	32.84	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.1539	38.22	55.79	17.57	L1	gnd
0.31406	21.51	49.86	28.35	L1	gnd
0.60703	19.14	46.00	26.86	L1	gnd
1.89218	24.86	46.00	21.14	L1	gnd
3.61484	27.13	46.00	18.87	L1	gnd
4.16953	26.03	46.00	19.97	L1	gnd



802.11g, Channel No.: 6 N Line

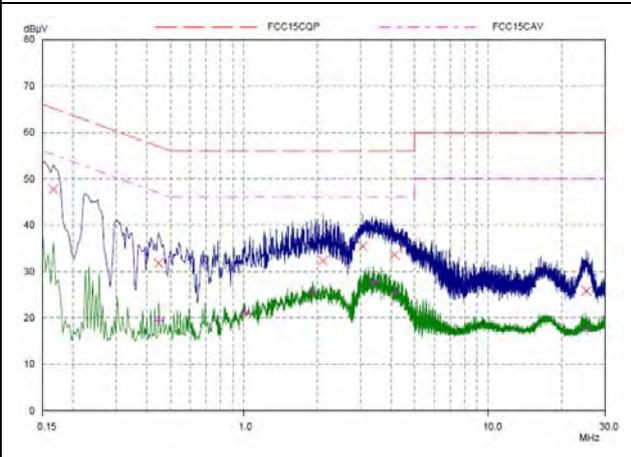


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16562	43.61	65.18	21.57	N	gnd
0.99765	36.86	56.00	19.14	N	gnd
1.93515	38.73	56.00	17.27	N	gnd
3.70468	37.97	56.00	18.03	N	gnd
4.11484	37.48	56.00	18.52	N	gnd
17.67343	32.68	60.00	27.32	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.44687	22.68	46.93	24.25	N	gnd
0.99765	25.97	46.00	20.03	N	gnd
2.06795	29.51	46.00	16.49	N	gnd
3.32187	31.28	46.00	14.72	N	gnd
4.24375	28.34	46.00	17.66	N	gnd
18.31796	22.40	50.00	27.60	N	gnd

802.11g, Channel No.: 11 L Line

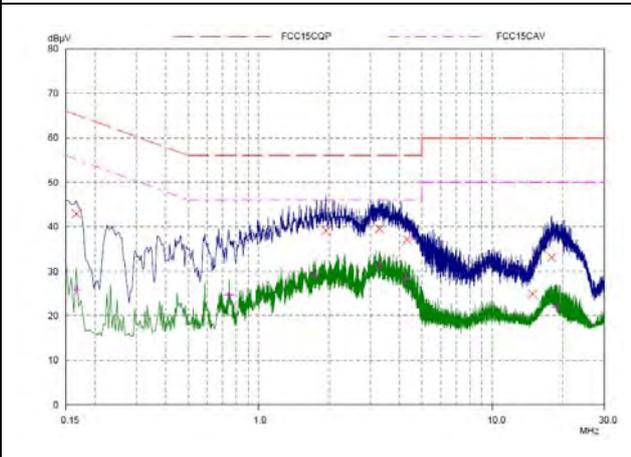


Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16562	47.75	65.18	17.43	L1	gnd
0.44687	31.77	56.93	25.16	L1	gnd
2.10703	32.30	56.00	23.70	L1	gnd
3.06015	35.48	56.00	20.52	L1	gnd
4.13046	33.58	56.00	22.42	L1	gnd
25.22031	25.80	60.00	34.20	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.44687	19.44	46.93	27.49	L1	gnd
1.00937	21.18	46.00	24.82	L1	gnd
1.90781	25.58	46.00	20.42	L1	gnd
3.38437	27.74	46.00	18.26	L1	gnd
4.16561	25.42	46.00	20.58	L1	gnd
25.22031	17.42	50.00	32.58	L1	gnd

802.11g, Channel No.: 11 N Line



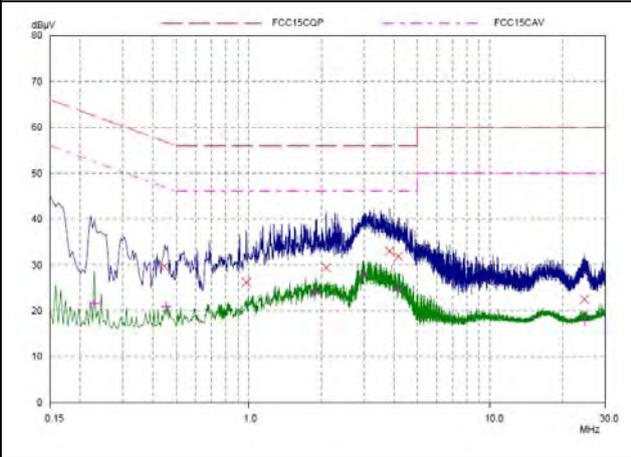
Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase	PE
0.16562	42.89	65.18	22.29	N	gnd
1.93906	39.13	56.00	16.87	N	gnd
3.28281	39.54	56.00	16.46	N	gnd
4.31015	37.13	56.00	18.87	N	gnd
14.83359	24.89	60.00	35.11	N	gnd
17.91953	33.11	60.00	26.89	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase	PE
0.16562	25.83	55.18	29.35	N	gnd
0.74765	24.63	46.00	21.37	N	gnd
1.74765	29.19	46.00	16.81	N	gnd
3.28281	31.35	46.00	14.65	N	gnd
4.23984	28.44	46.00	17.56	N	gnd
18.68515	21.94	50.00	28.06	N	gnd



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

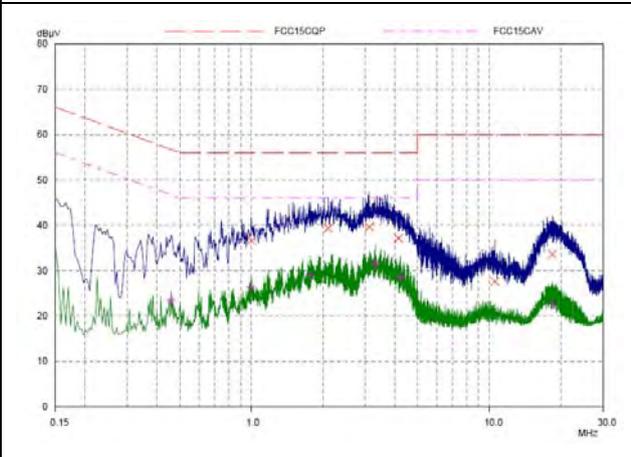


Final Measurement Results

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB	Phase	PE
0.44687	29.65	56.93	27.28	L1	gnd
0.97421	26.20	56.00	29.80	L1	gnd
2.0914	29.40	56.00	26.60	L1	gnd
3.83359	33.00	56.00	23.00	L1	gnd
4.16953	31.82	56.00	24.18	L1	gnd
24.62656	22.49	60.00	37.51	L1	gnd

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB	Phase	PE
0.22812	21.55	52.52	30.97	L1	gnd
0.45468	20.98	46.79	25.81	L1	gnd
1.89609	24.08	46.00	21.92	L1	gnd
2.98593	27.84	46.00	18.16	L1	gnd
4.16953	24.91	46.00	21.09	L1	gnd
24.62656	17.84	50.00	32.16	L1	gnd

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

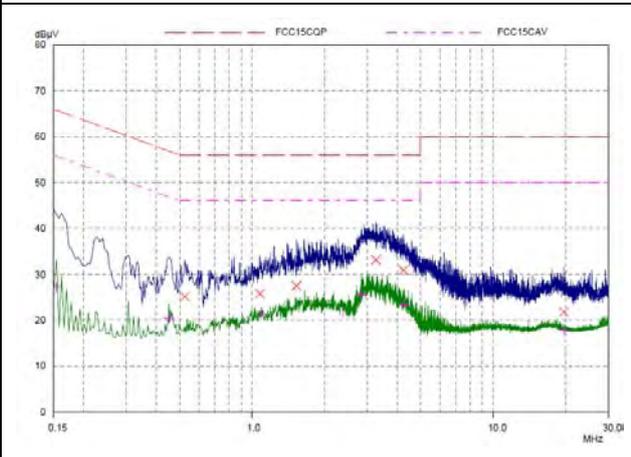


Final Measurement Results

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB	Phase	PE
0.99765	36.58	56.00	19.42	N	gnd
2.09921	39.34	56.00	16.66	N	gnd
3.12265	39.62	56.00	16.38	N	gnd
4.14609	37.08	56.00	18.92	N	gnd
10.54453	27.57	60.00	32.43	N	gnd
18.38046	33.60	60.00	26.40	N	gnd

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB	Phase	PE
0.45859	23.50	46.72	23.22	N	gnd
0.99765	26.17	46.00	19.83	N	gnd
1.77109	28.87	46.00	17.13	N	gnd
3.31796	31.56	46.00	14.44	N	gnd
4.22031	28.63	46.00	17.37	N	gnd
18.38828	22.62	50.00	27.38	N	gnd

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



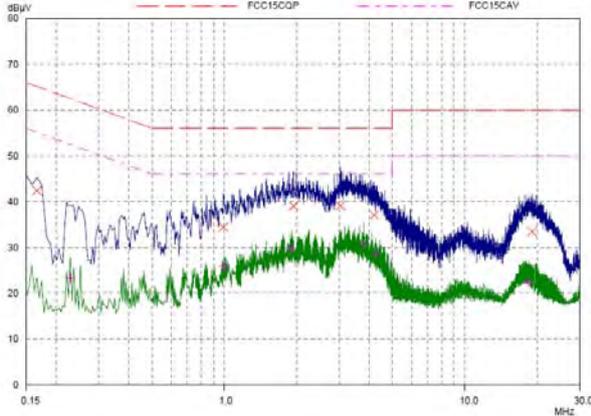
Final Measurement Results

Frequency MHz	QP Level dBuV	QP Limit dBuV	QP Delta dB	Phase	PE
0.525	25.12	56.00	30.88	L1	gnd
1.07578	25.76	56.00	30.24	L1	gnd
1.525	27.49	56.00	28.51	L1	gnd
3.25937	33.14	56.00	22.86	L1	gnd
4.23984	30.89	56.00	25.11	L1	gnd
19.63437	21.78	60.00	38.22	L1	gnd

Frequency MHz	AV Level dBuV	AV Limit dBuV	AV Delta dB	Phase	PE
0.1539	27.16	55.79	28.63	L1	gnd
0.45078	20.49	46.86	26.37	L1	gnd
1.0914	21.35	46.00	24.65	L1	gnd
2.83359	25.60	46.00	20.40	L1	gnd
4.2789	23.54	46.00	22.46	L1	gnd
19.63437	17.77	50.00	32.23	L1	gnd



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

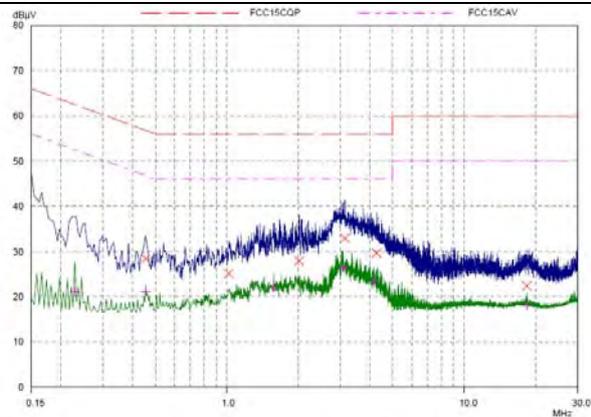


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16562	42.41	65.18	22.77	N	gnd
0.98984	34.44	56.00	21.56	N	gnd
1.93515	39.05	56.00	16.95	N	gnd
3.03281	39.08	56.00	16.92	N	gnd
4.19296	37.06	56.00	18.94	N	gnd
19.05625	33.43	60.00	26.57	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	23.30	52.52	29.22	N	gnd
0.99375	25.84	46.00	20.16	N	gnd
1.90781	29.85	46.00	16.15	N	gnd
3.80234	30.69	46.00	15.31	N	gnd
4.25156	28.54	46.00	17.46	N	gnd
18.4664	22.52	50.00	27.48	N	gnd

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

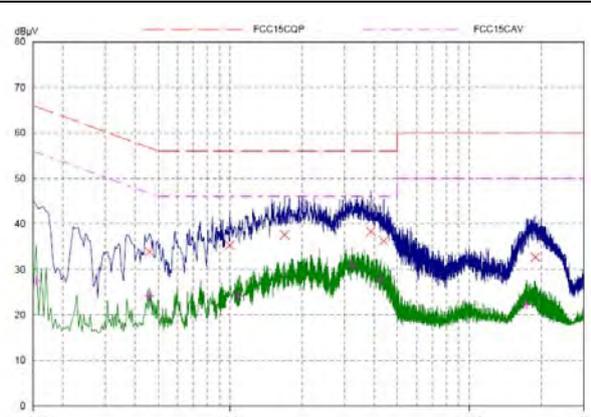


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.45468	28.47	56.79	28.32	L1	gnd
1.01718	25.14	56.00	30.86	L1	gnd
2.01328	27.95	56.00	28.05	L1	gnd
3.13828	32.94	56.00	23.06	L1	gnd
4.27109	29.67	56.00	26.33	L1	gnd
18.3375	22.40	60.00	37.60	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	21.04	52.52	31.48	L1	gnd
0.45468	21.09	46.79	25.70	L1	gnd
1.57578	22.11	46.00	23.89	L1	gnd
3.08359	26.33	46.00	19.67	L1	gnd
4.16171	23.40	46.00	22.60	L1	gnd
18.3375	18.16	50.00	31.84	L1	gnd

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



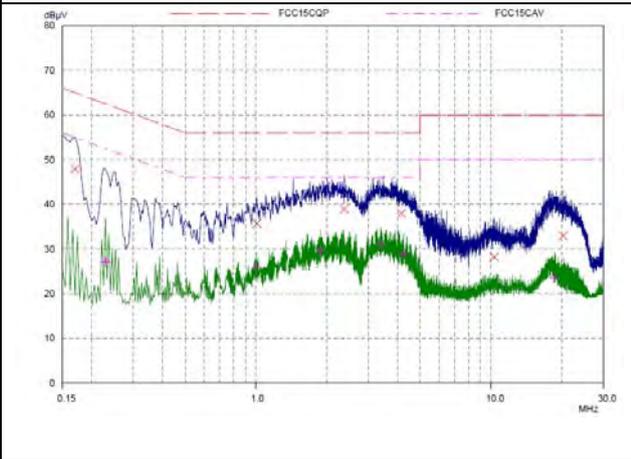
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.45859	33.89	56.72	22.83	N	gnd
0.99375	35.32	56.00	20.68	N	gnd
1.68515	37.59	56.00	18.41	N	gnd
3.86875	38.30	56.00	17.70	N	gnd
4.37656	36.27	56.00	19.73	N	gnd
18.86484	32.68	60.00	27.32	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.1539	27.45	55.79	28.34	N	gnd
0.45859	24.18	46.72	22.54	N	gnd
1.08359	24.23	46.00	21.77	N	gnd
3.23203	30.91	46.00	15.09	N	gnd
4.26328	27.77	46.00	18.23	N	gnd
17.34531	22.23	50.00	27.77	N	gnd



BLE, Channel No.: 0 L Line

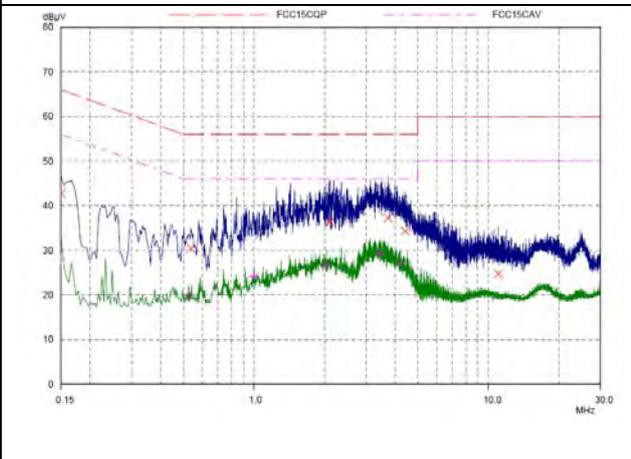


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16953	47.92	64.98	17.06	L1	gnd
1.00546	35.66	56.00	20.34	L1	gnd
2.37265	38.92	56.00	17.08	L1	gnd
4.15	37.96	56.00	18.04	L1	gnd
10.31015	28.20	60.00	31.80	L1	gnd
20.2164	32.96	60.00	27.04	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	27.06	52.52	25.46	L1	gnd
1.00546	25.84	46.00	20.16	L1	gnd
1.88437	29.68	46.00	16.32	L1	gnd
3.38828	30.98	46.00	15.02	L1	gnd
4.23984	28.97	46.00	17.03	L1	gnd
18.6539	23.57	50.00	26.43	L1	gnd

BLE, Channel No.: 0 N Line

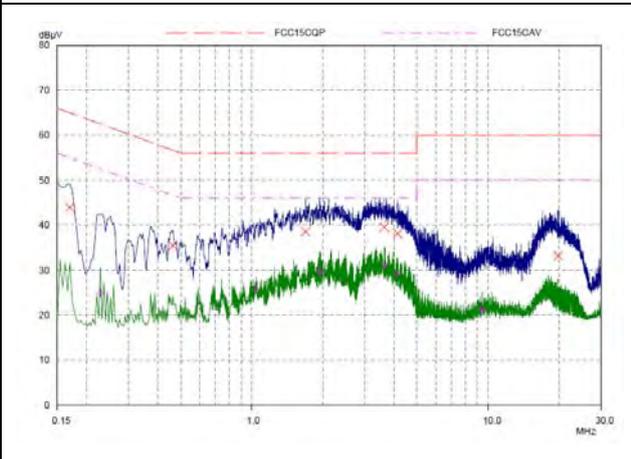


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.15	42.78	66.00	23.22	N	gnd
0.53671	30.42	56.00	25.58	N	gnd
2.10312	36.30	56.00	19.70	N	gnd
3.73203	37.29	56.00	18.71	N	gnd
4.41953	34.31	56.00	21.69	N	gnd
11.025	24.78	60.00	35.22	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.15	28.00	56.00	28.00	N	gnd
0.525	19.91	46.00	26.09	N	gnd
0.99765	24.23	46.00	21.77	N	gnd
2.0367	26.75	46.00	19.25	N	gnd
3.44296	29.32	46.00	16.68	N	gnd
4.2125	27.31	46.00	18.69	N	gnd

BLE, Channel No.: 19 L Line



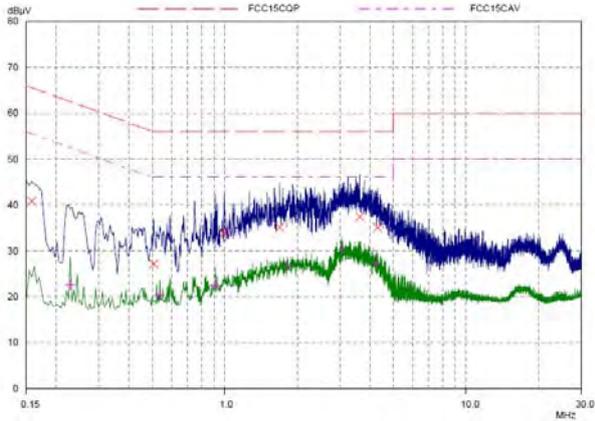
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16953	43.96	64.98	21.02	L1	gnd
0.4625	35.49	56.65	21.16	L1	gnd
1.68515	38.51	56.00	17.49	L1	gnd
3.63437	39.51	56.00	16.49	L1	gnd
4.13828	38.12	56.00	17.88	L1	gnd
19.79453	33.21	60.00	26.79	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	24.94	52.52	27.58	L1	gnd
1.04453	25.70	46.00	20.30	L1	gnd
1.93515	29.68	46.00	16.32	L1	gnd
3.63437	30.99	46.00	15.01	L1	gnd
4.13046	29.20	46.00	16.80	L1	gnd
9.43906	21.26	50.00	28.74	L1	gnd



BLE, Channel No.: 19 N Line

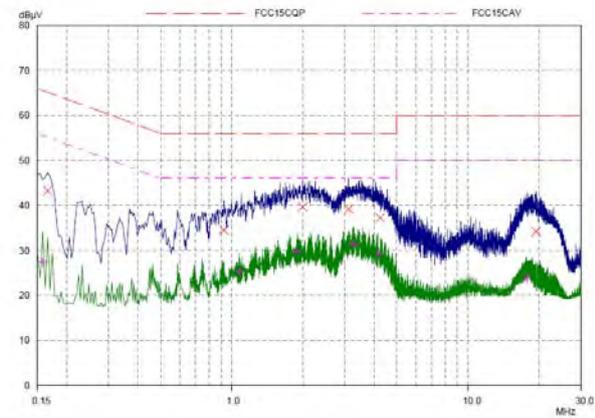


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.15781	40.80	65.58	24.78	N	gnd
0.50546	27.16	56.00	28.84	N	gnd
0.99375	33.92	56.00	22.08	N	gnd
1.68515	35.13	56.00	20.87	N	gnd
3.62656	37.39	56.00	18.61	N	gnd
4.29843	35.03	56.00	20.97	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.22812	22.64	52.52	29.88	N	gnd
0.53671	20.36	46.00	25.64	N	gnd
0.91171	22.41	46.00	23.59	N	gnd
1.81406	26.74	46.00	19.26	N	gnd
3.05234	30.37	46.00	15.63	N	gnd
4.25937	27.38	46.00	18.62	N	gnd

BLE, Channel No.: 39 L Line

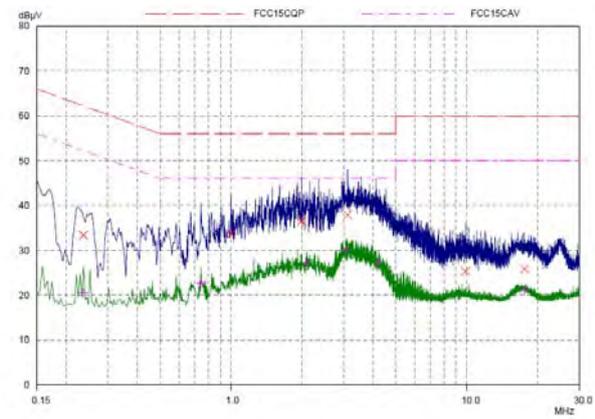


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.16562	43.31	65.18	21.87	L1	gnd
0.92343	34.49	56.00	21.51	L1	gnd
1.99375	39.67	56.00	16.33	L1	gnd
3.11484	39.20	56.00	16.80	L1	gnd
4.24375	37.27	56.00	18.73	L1	gnd
19.44296	34.18	60.00	25.82	L1	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.15781	27.34	55.58	28.24	L1	gnd
1.07187	25.29	46.00	20.71	L1	gnd
1.89609	29.85	46.00	16.15	L1	gnd
3.275	31.56	46.00	14.44	L1	gnd
4.14609	29.29	46.00	16.71	L1	gnd
17.67343	23.79	50.00	26.21	L1	gnd

BLE, Channel No.: 39 N Line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB	Phase	PE
0.23593	33.38	62.24	28.86	N	gnd
0.99765	33.66	56.00	22.34	N	gnd
1.98984	36.51	56.00	19.49	N	gnd
3.11875	37.92	56.00	18.08	N	gnd
9.88046	25.33	60.00	34.67	N	gnd
17.61484	25.85	60.00	34.15	N	gnd

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB	Phase	PE
0.23593	20.60	52.24	31.64	N	gnd
0.74375	22.61	46.00	23.39	N	gnd
2.0914	27.33	46.00	18.67	N	gnd
3.07578	29.96	46.00	16.04	N	gnd
4.22812	27.31	46.00	18.69	N	gnd
17.61484	21.22	50.00	28.78	N	gnd



6. Main Test Instruments

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

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