



中国认可
国际互认
检测
TESTING
CNAS L2264

RF TEST REPORT

Applicant ZTE Corporation
FCC ID SRQ-VFD710
Product LTE/WCDMA/GSM(GPRS) Multi-Mode Digital
Mobile Phone
Brand ZTE
Model VFD 710 / Vodafone VFD 710
Report No. RXC1702-0029RF05R1
Issue Date May 4, 2017

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2016)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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TABLE OF CONTENT

1. Test Laboratory	4
1.1. Notes of the test report.....	4
1.2. Test facility	4
1.3. Testing Location.....	5
2. General Description of Equipment under Test.....	6
3. Applied Standards	8
4. Test Configuration	9
5. Test Case Results	10
5.1. Average Power Output –Conducted.....	10
5.2. 6dB Bandwidth	12
5.3. Band Edge	16
5.4. Power Spectral Density	18
5.5. Spurious RF Conducted Emissions.....	22
5.6. Radiated Emissions in the Restricted Band	28
5.7. Radiates Emission	32
5.8. Conducted Emission	83
6. Main Test Instruments.....	90
ANNEX A: EUT Appearance and Test Setup	91
A.1 EUT Appearance	91
A.2 Test Setup	93



Summary of measurement results

Number	Summary of measurements of results	Clause in FCC rules	Verdict
1	Maximum Average conducted output power	15.247(b)(3)	PASS
2	6 dB bandwidth	15.247(a)(2)	PASS
3	Power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	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: February 15, 2017 ~ March 30, 2017			



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 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.
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City: Shanghai
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E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

Client Information

Applicant	ZTE Corporation
Applicant address	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R. China
Manufacturer	ZTE Corporation
Manufacturer address	ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R. China

General information

EUT Description	
Model:	VFD 710 / Vodafone VFD 710
Brand Name:	ZTE
Marketing Name:	Vodafone Smart V8 VFD 710
IMEI:	SIM 1: 355705080022648 SIM 2: 355705080022945
Hardware Version:	VFD 710 MP
Software Version:	VFD-710_ATPB03; VFD-710_ATPB03 /EG-Open-D_B03
Power Supply:	Battery/AC adapter
Antenna Type:	Internal Antenna
Antenna Connector:	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
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 :13.72dBm BLE : 0.079 dBm
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz BLE: 2402 ~2480 MHz
EUT Accessory	
Adapter	Manufacturer: RUIJING Model: STC-A515A-Z Input power:100-240VAC 50-60Hz 300mA



	Output power:5V DC 1500mA
Battery 1	Manufacturer: SCUD (FUJIAN) Electronics Co., Ltd. Model: Li3930T44P6h816437
Battery 2	Manufacturer: Harbin Coslight Power Co., Ltd. Model: Li3930T44P6h816437
Earphone	Manufacturer: GoerTek Inc. Model: HA3-6
USB Extend Cable	100cm Cable, Shielded
Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details.	

Difference Configuration Statement		
Configuration	Configuration 1	Configuration 2
Software Version	VFD-710_ATPB03	VFD-710_ATPB03 /EG-Open-D_B03
SIM Card Slot	SIM 1	SIM 1, SIM 2
Others	The same	The same
The difference between the two EUT is only the Software Version and the quantity of SIM Card Slot, however, only the Software Version of VFD-710_ATPB03 /EG-Open-D_B03 (with 2 SIM Card Slots) is refer to this report.		



3. Applied Standards

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

Test standards

- **FCC CFR47 Part 15C (2016) Radio Frequency Devices**
- **ANSI C63.10 (2013)**
- **KDB 558074 D01 DTS Meas Guidance v04**

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

5. Test Case Results

5.1. Average Power Output –Conducted

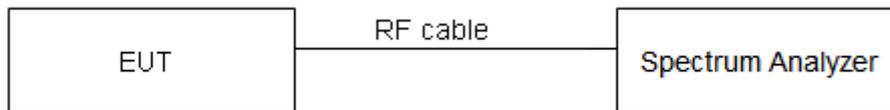
Ambient condition

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 Spectrum Analyzer with a known loss. The EUT is max power transmission with proper modulation. The Average detector is used. We use Maximum Average 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."

Average Output Power	$\leq 1W$ (30dBm)
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Measurement Uncertainty

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

**Test Results**

Network Standards	Carrier frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Conclusion
802.11b	2412	13.720	30	PASS
	2437	12.950	30	PASS
	2462	13.670	30	PASS
802.11g	2412	11.000	30	PASS
	2437	10.770	30	PASS
	2462	11.350	30	PASS
802.11n HT20	2412	9.890	30	PASS
	2437	9.240	30	PASS
	2462	9.830	30	PASS
Bluetooth (Low Energy)	2402	0.079	30	PASS
	2440	-0.818	30	PASS
	2480	-1.781	30	PASS

5.2. 6dB Bandwidth

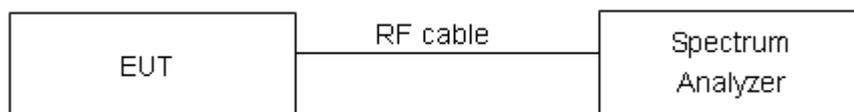
Ambient condition

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)	99% bandwidth (MHz)	Limit(kHz)	Conclusion
802.11b	2412	7.593	12.444	500	PASS
	2437	7.595	12.586	500	PASS
	2462	7.592	12.415	500	PASS
802.11g	2412	15.780	16.561	500	PASS
	2437	16.460	16.613	500	PASS
	2462	15.970	16.619	500	PASS
802.11n HT20	2412	16.370	17.663	500	PASS
	2437	17.630	17.744	500	PASS
	2462	16.390	17.653	500	PASS
Bluetooth (Low Energy)	2402	0.6833	1.0877	500	PASS
	2440	0.6795	1.0867	500	PASS
	2480	0.6789	1.0861	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

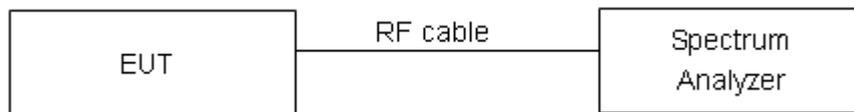
Ambient condition

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.”

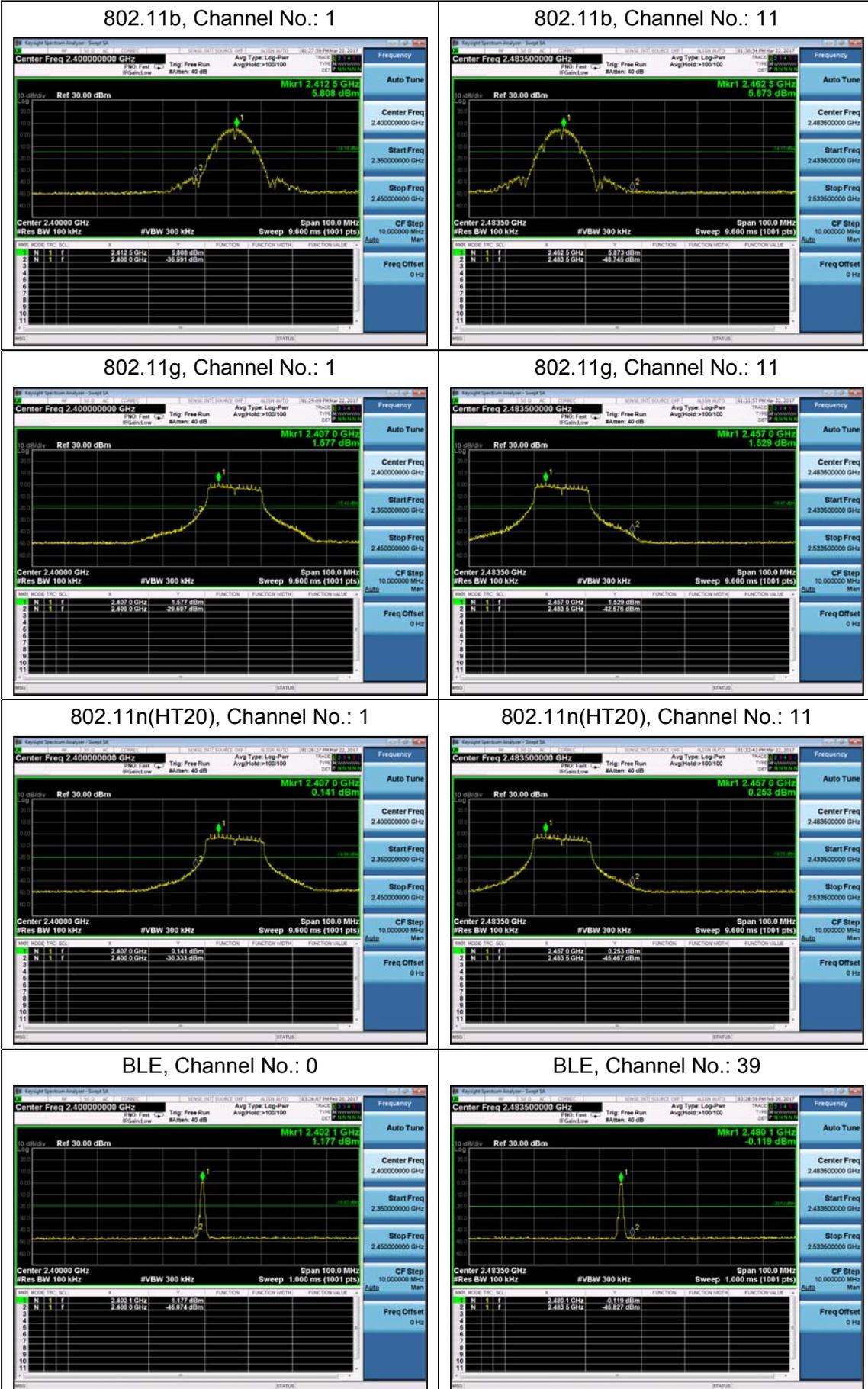
Measurement Uncertainty

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



5.4. Power Spectral Density

Ambient condition

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

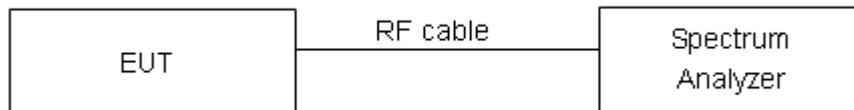
Method of Measurement

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 Average 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. “

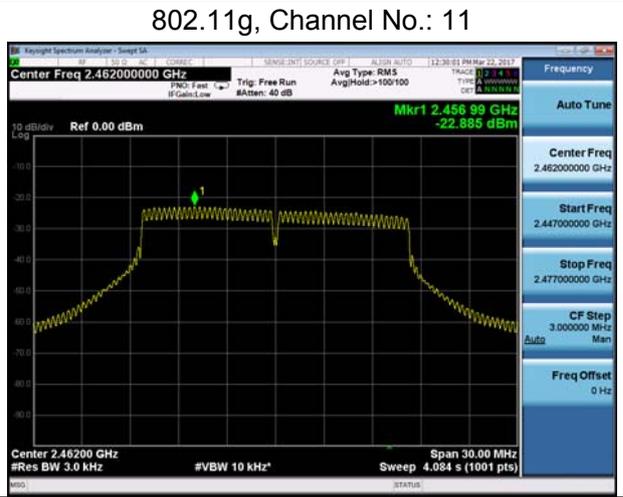
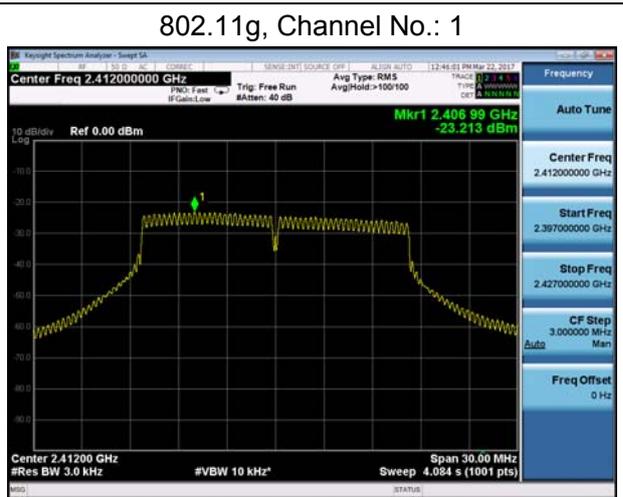
Limits	≤ 8 dBm / 3kHz
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Measurement Uncertainty

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

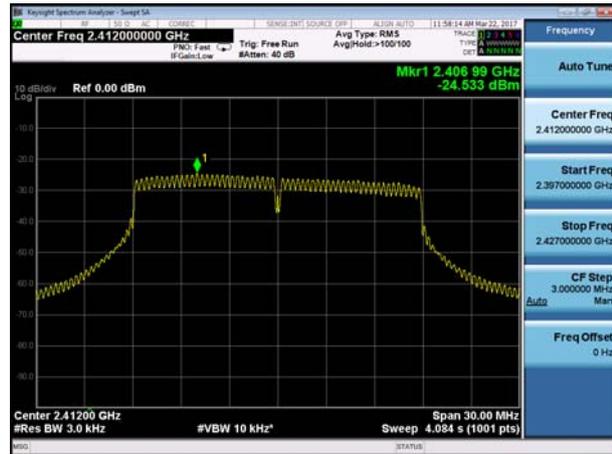
**Test Results:**

Network Standards	Channel Number	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-18.025	8	PASS
	6	-19.045	8	PASS
	11	-18.234	8	PASS
802.11g	1	-23.213	8	PASS
	6	-23.903	8	PASS
	11	-22.885	8	PASS
802.11n HT20	1	-24.533	8	PASS
	6	-24.823	8	PASS
	11	-18.425	8	PASS
Bluetooth (Low Energy)	0	-12.104	8	PASS
	19	-12.802	8	PASS
	39	-13.586	8	PASS

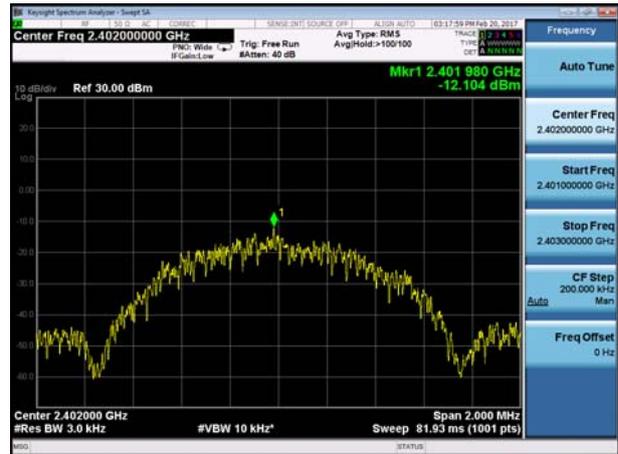




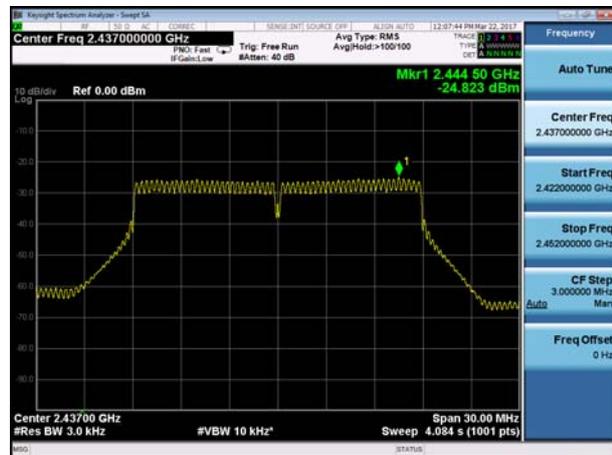
802.11n(HT20), Channel No. 1



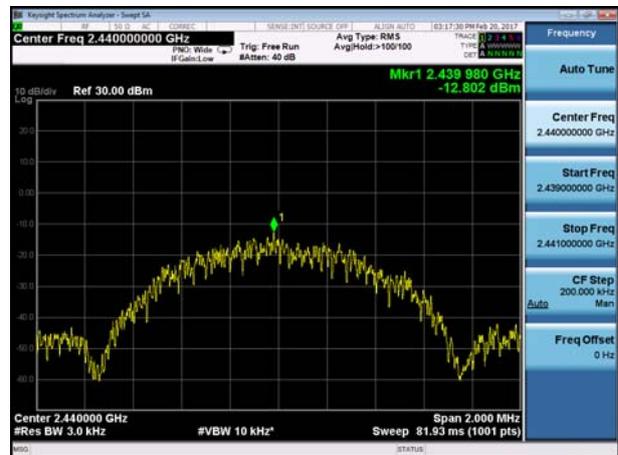
BLE, Channel No.: 0



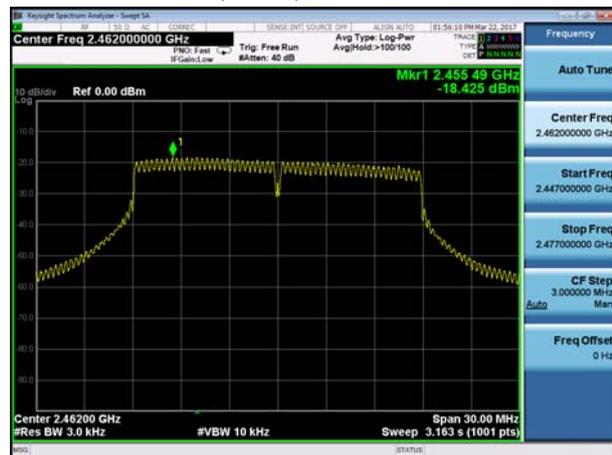
802.11n(HT20), Channel No. 6



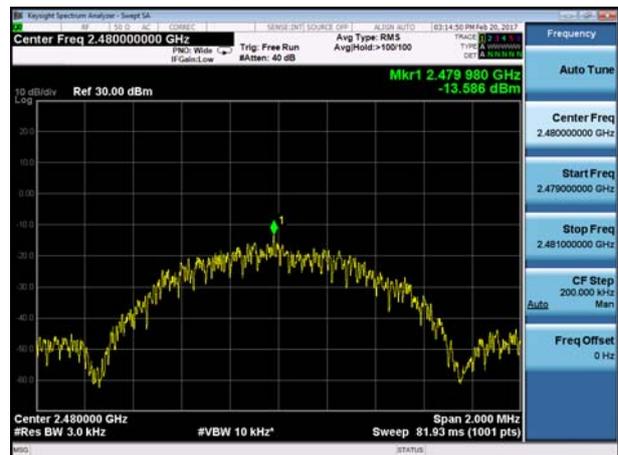
BLE, Channel No.: 19



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.

Test setup



Limits

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

Network Standards	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	5.4	-14.6
	2437	4.66	-15.34
	2462	4.37	-15.63
802.11g	2412	0.951	-19.049
	2437	0.304	-19.696
	2462	-0.129	-20.129
802.11n HT20	2412	0.203	-19.797
	2437	-0.554	-20.554
	2462	-0.968	-20.968
Bluetooth (Low Energy)	2402	-0.185	-20.185
	2440	-0.02	-20.02
	2480	-0.952	-20.952

Measurement Uncertainty

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

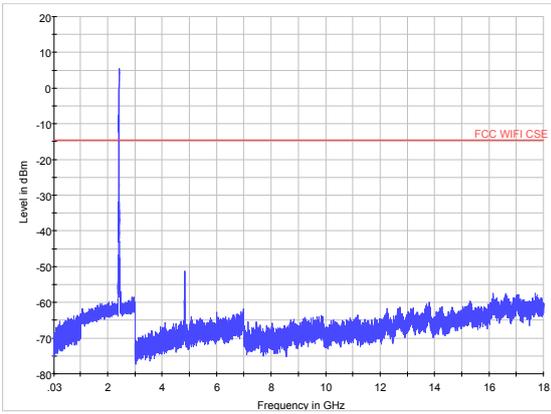


Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

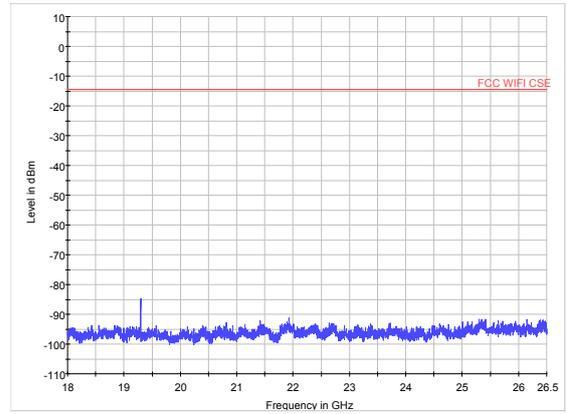


Test Results:

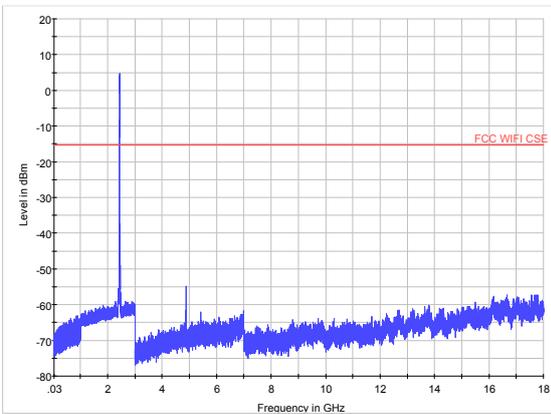
If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.



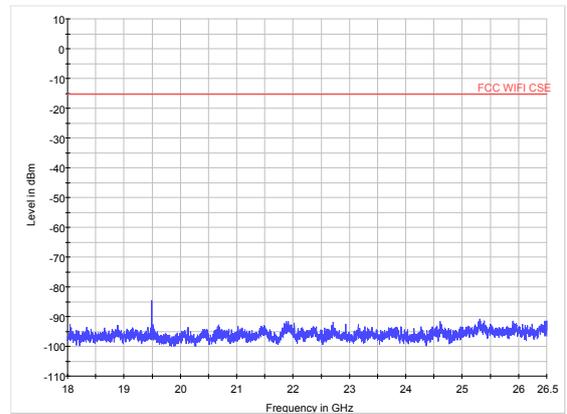
802.11b CH1 30MHz to 18GHz



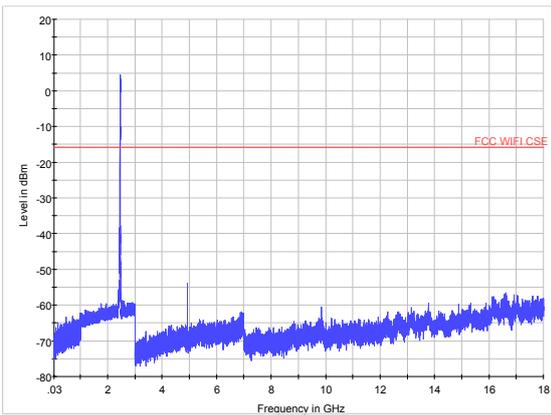
802.11b CH1 18GHz to 26.5GHz



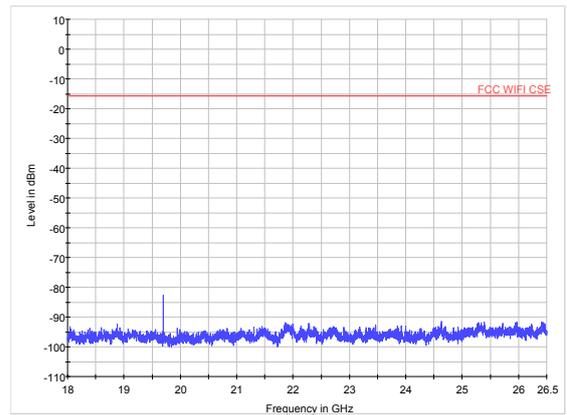
802.11b CH6 30MHz to 18GHz



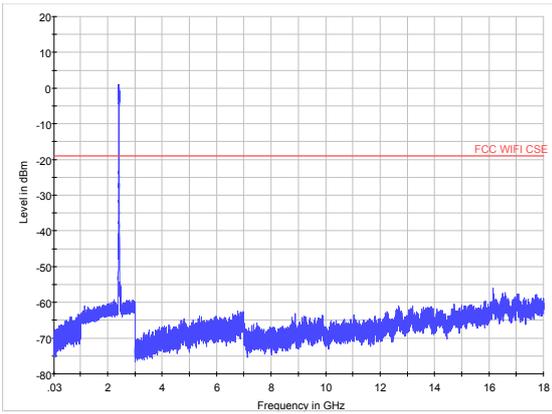
802.11b CH6 18GHz to 26.5GHz



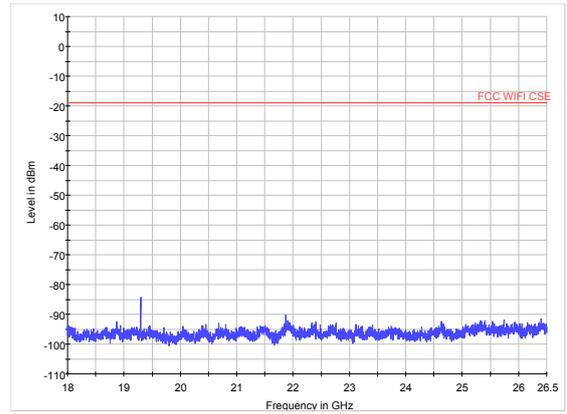
802.11b CH11 30MHz to 18GHz



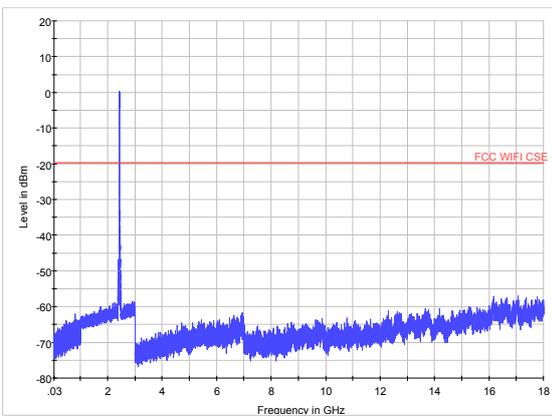
802.11b CH11 18GHz to 26.5GHz



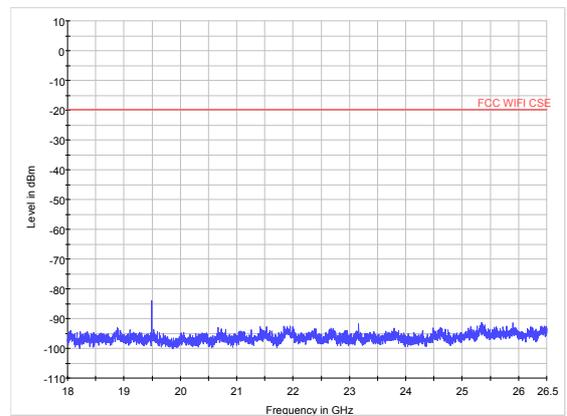
802.11g CH1 30MHz to 18GHz



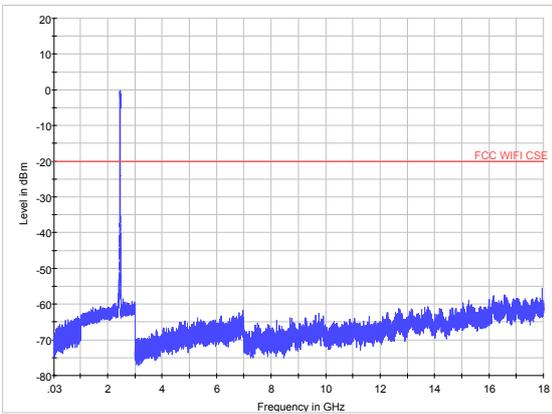
802.11g CH1 18GHz to 26.5GHz



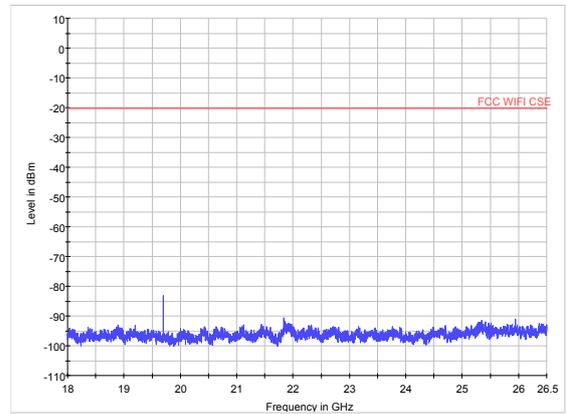
802.11g CH6 30MHz to 18GHz



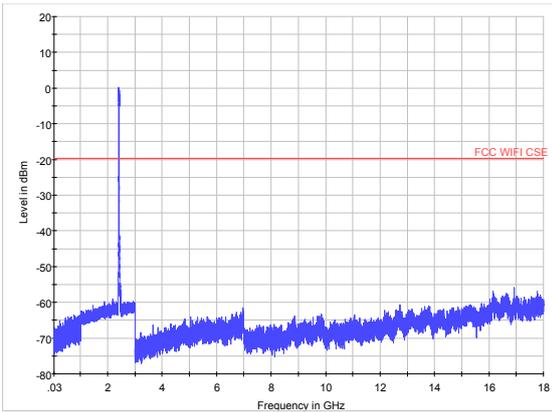
802.11g CH6 18GHz to 26.5GHz



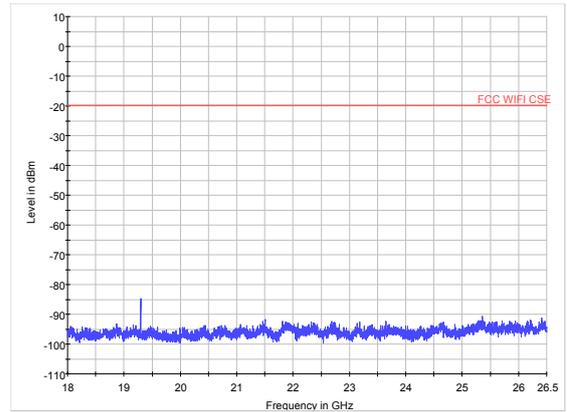
802.11g CH11 30MHz to 18GHz



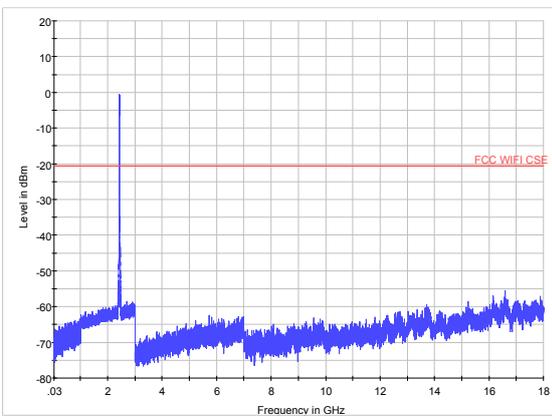
802.11g CH11 18GHz to 26.5GHz



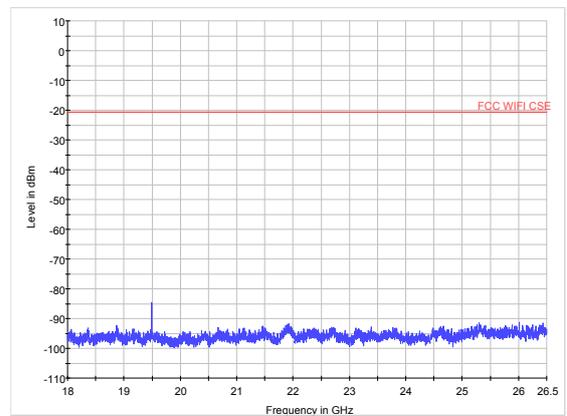
802.11n (HT20) CH1 30MHz to 18GHz



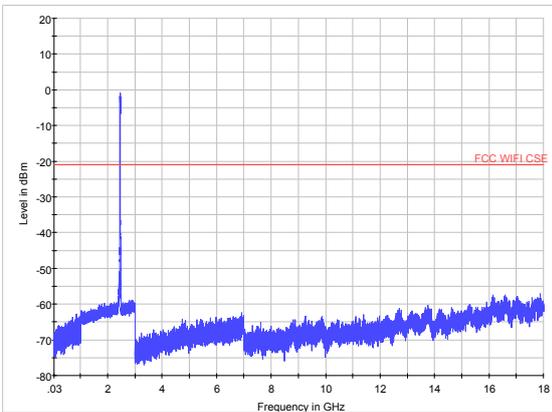
802.11n (HT20) CH1 18GHz to 26.5GHz



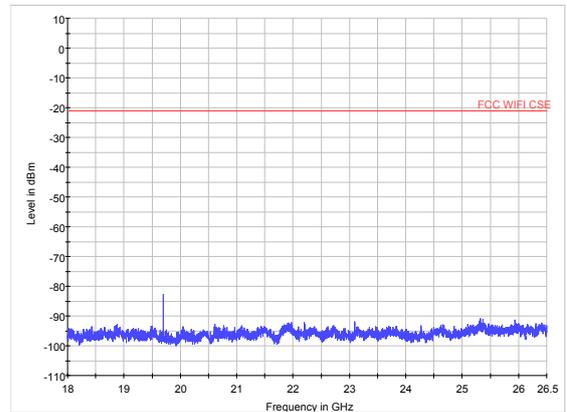
802.11n (HT20) CH6 30MHz to 18GHz



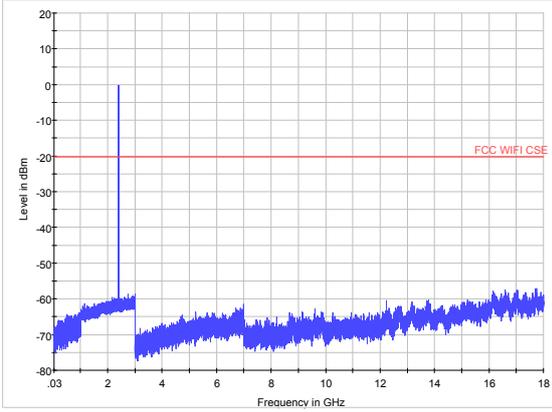
802.11n (HT20) CH6 18GHz to 26.5GHz



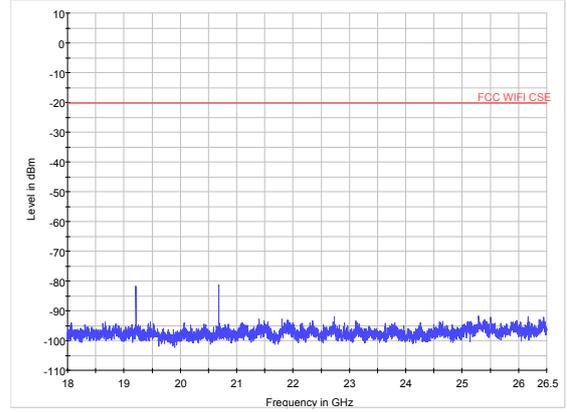
802.11n (HT20) CH11 30MHz to 3GHz



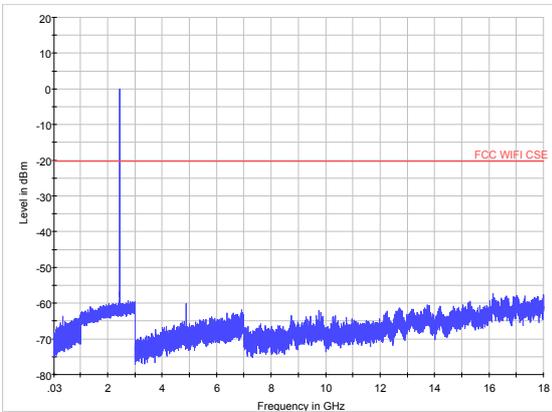
802.11n (HT20) CH11 18GHz to 26.5GHz



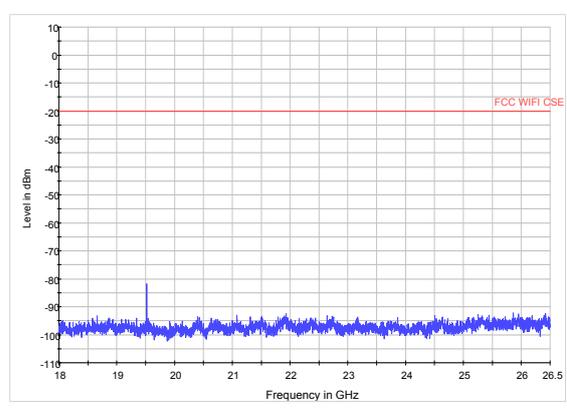
BLE CH0 30MHz to 18GHz



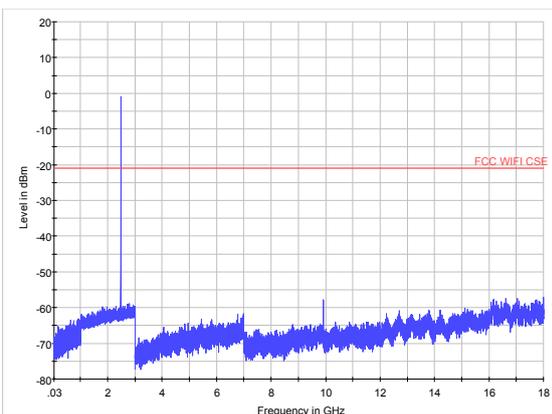
BLE CH0 18GHz to 26.5GHz



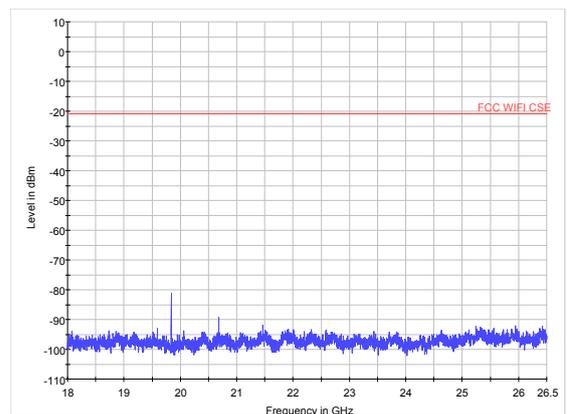
BLE CH19 30MHz to 18GHz



BLE CH19 18GHz to 26.5GHz



BLE CH39 30MHz to 18GHz



BLE CH39 3GHz to 18GHz

5.6. Radiated Emissions in the Restricted Band

Ambient condition

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

Method of Measurement

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

Set the spectrum analyzer in the following:

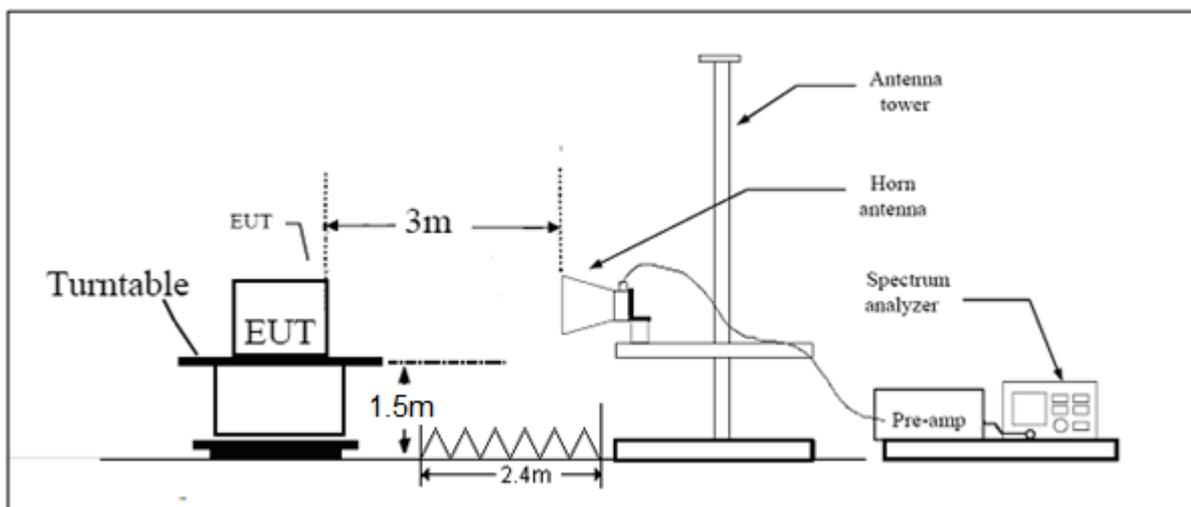
- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=1MHz / Sweep=AUTO

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

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

The test is in transmitting mode.

Test setup



Note: Area side: 2.4mX3.6m

Limits

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

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

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

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

Measurement Uncertainty

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

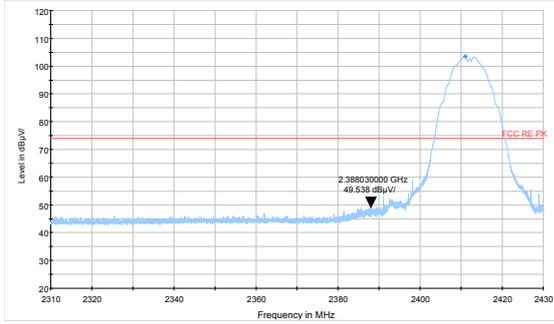


Test Results:

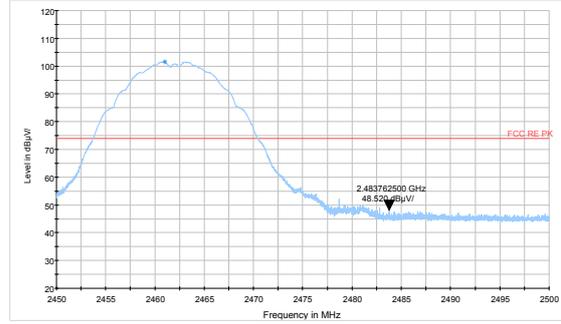
PASS

The signal beyond the limit is carrier.

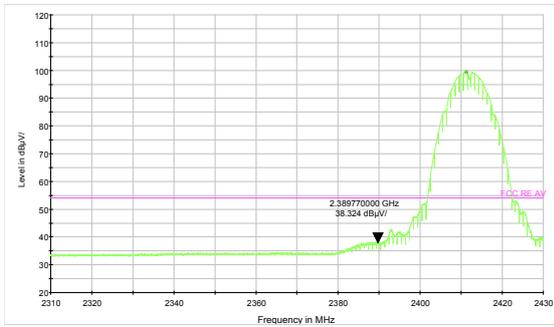
802.11b-Channel 1: Peak



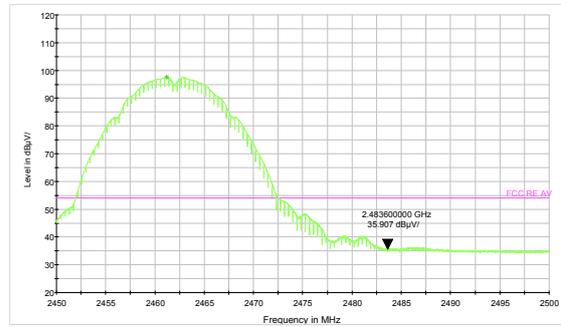
802.11b-Channel 11: Peak



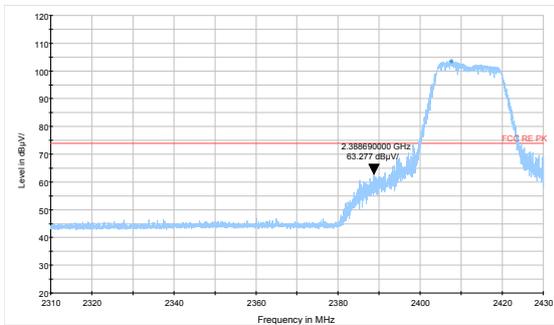
802.11b-Channel 1: Average



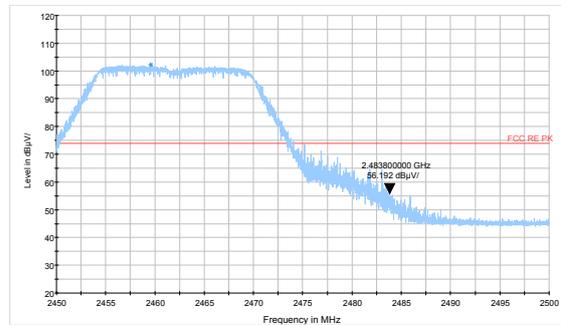
802.11b-Channel 11: Average



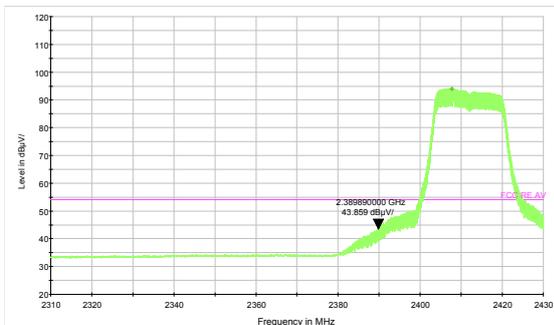
802.11g-Channel 1: Peak



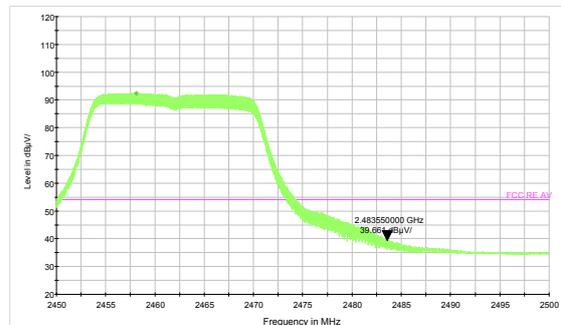
802.11g-Channel 11: Peak



802.11g-Channel 1: Average

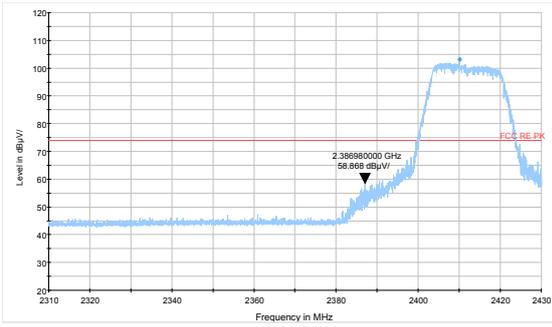


802.11g-Channel 11: Average

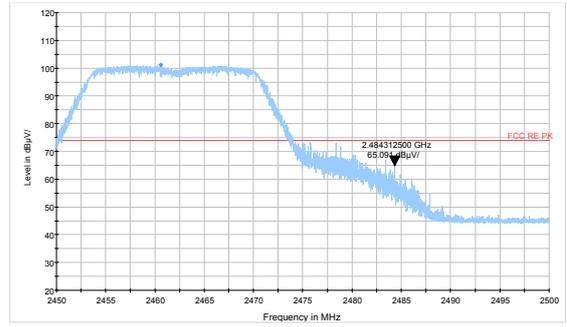




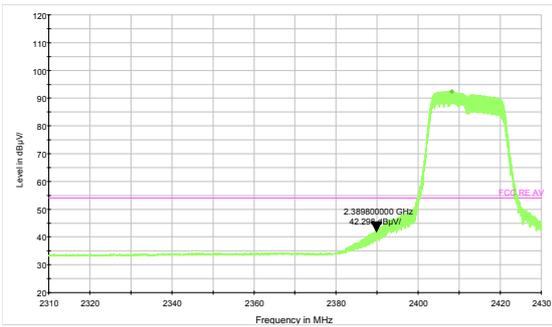
802.11n HT20 -Channel 1: Peak



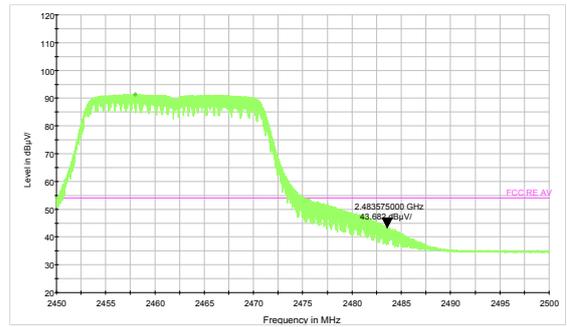
802.11n HT20-Channel 11: Peak



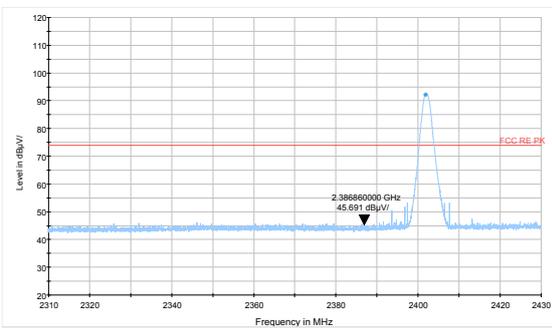
802.11n HT20-Channel 1: Average



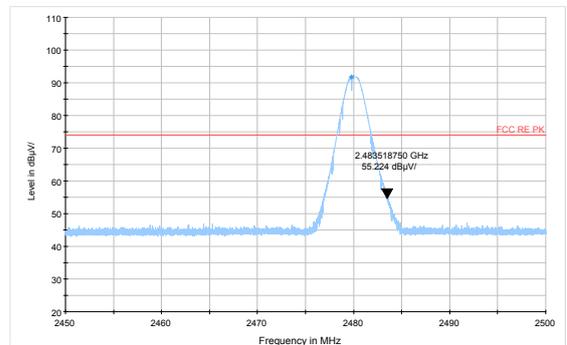
802.11n HT20-Channel 11: Average



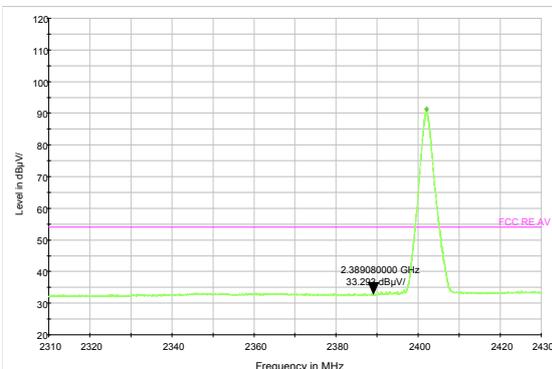
BLE -Channel 0: Peak



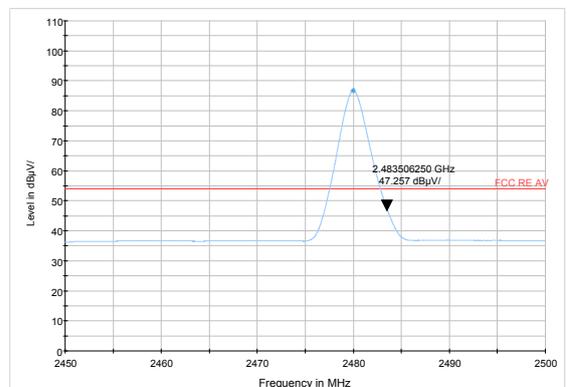
BLE -Channel 39: Peak



BLE -Channel 0: Average



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

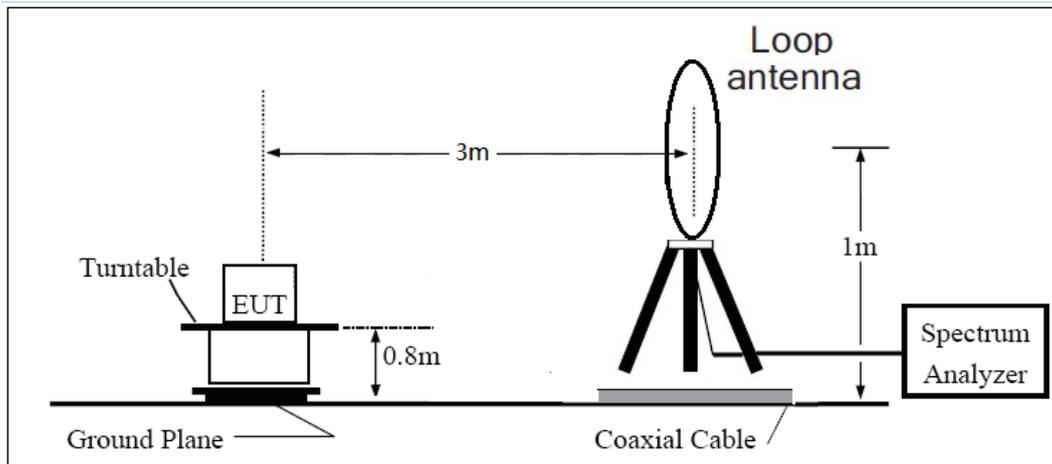
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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.

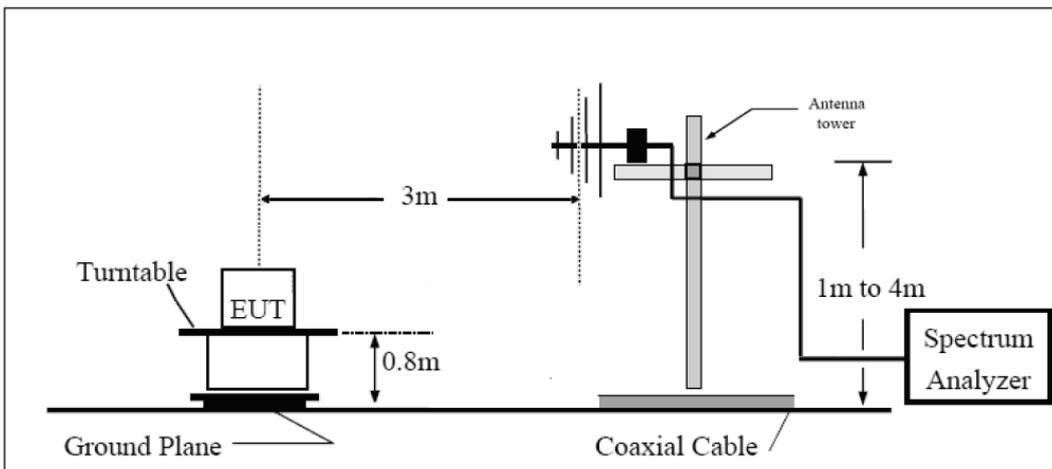
The test is in transmitting mode.

Test setup

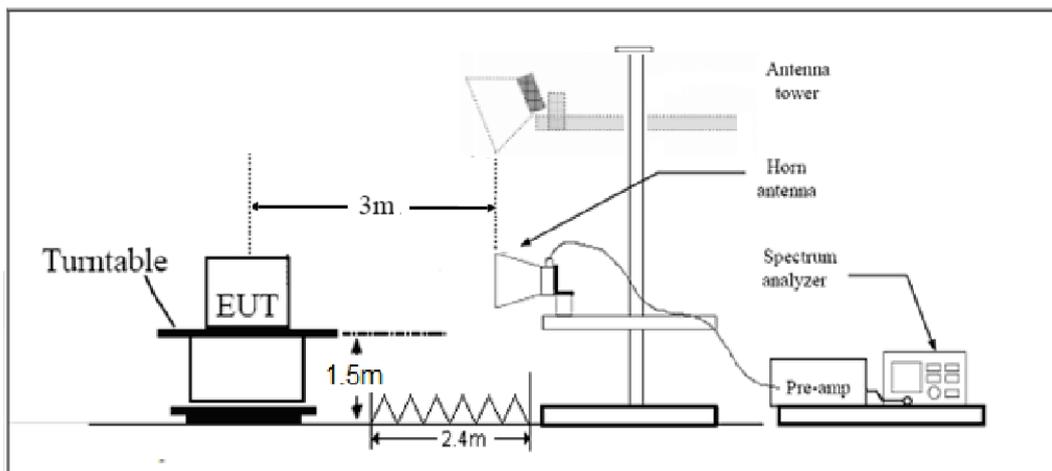
9KHz ~ 30MHz



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

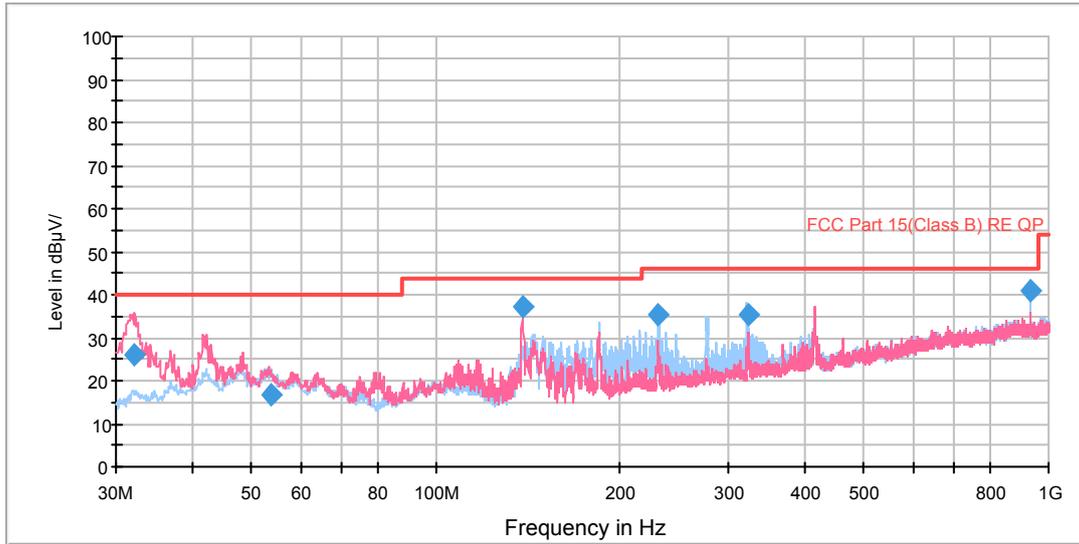
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

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

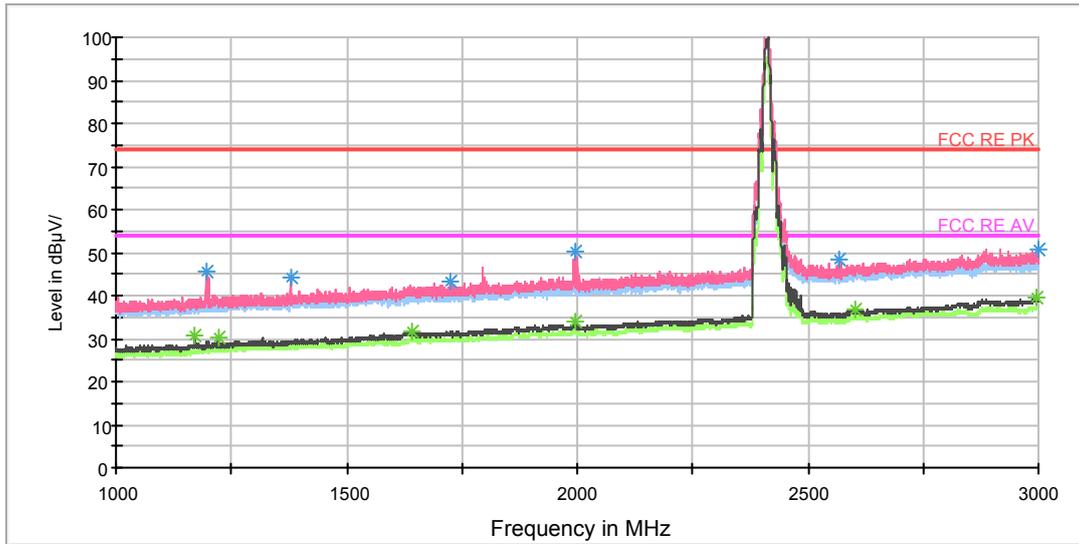
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
32.102044	26.0	100.0	V	176.0	38.5	-12.5	14.0	40.0
53.751534	16.9	98.0	H	9.0	27.7	-10.8	23.1	40.0
138.411506	37.4	100.0	V	211.0	56.9	-19.5	6.1	43.5
230.615750	35.5	125.0	H	60.0	51.1	-15.6	10.5	46.0
322.765000	35.5	100.0	H	7.0	48.6	-13.1	10.5	46.0
932.050000	41.0	100.0	H	70.0	44.0	-3.0	5.0	46.0

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

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

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



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

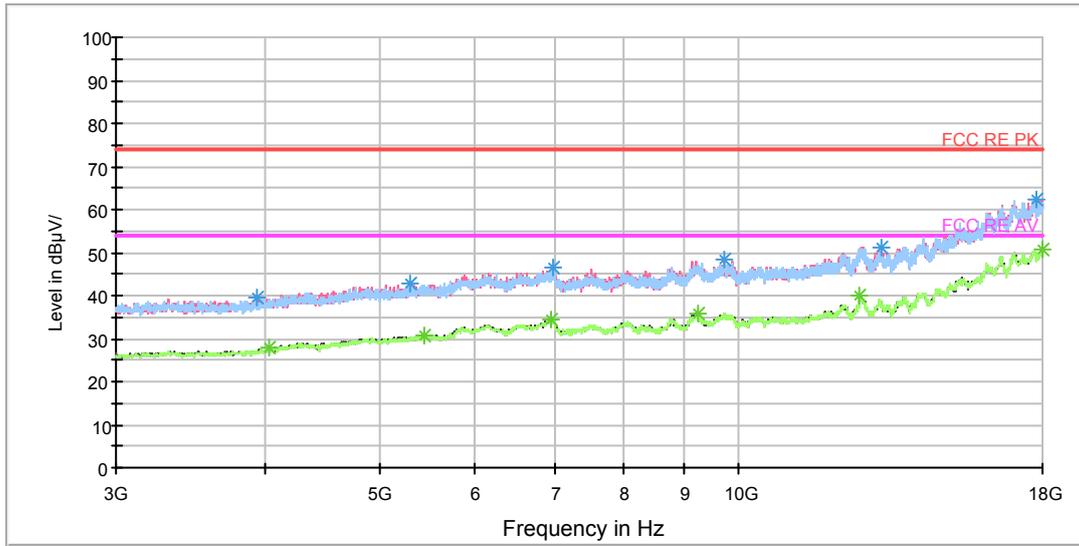
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.250000	45.8	105.0	V	49.0	54.0	-8.2	28.2	74
1377.750000	44.0	105.0	V	0.0	51.1	-7.1	30.0	74
1723.250000	43.3	105.0	V	246.0	48.3	-5.0	30.7	74
1993.750000	50.3	105.0	V	0.0	53.6	-3.3	23.7	74
2568.250000	48.5	105.0	V	14.0	49.1	-0.6	25.5	74
2999.000000	50.8	105.0	V	0.0	48.5	2.3	23.2	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1169.750000	30.6	105.0	V	165.0	38.7	-8.1	23.4	54
1220.750000	30.2	105.0	V	155.0	38.1	-7.9	23.8	54
1642.000000	31.6	105.0	V	0.0	36.4	-4.8	22.4	54
1993.750000	33.9	105.0	V	0.0	37.2	-3.3	20.1	54
2603.750000	36.8	105.0	V	0.0	36.5	0.3	17.2	54
2997.500000	39.5	105.0	V	268.0	37.2	2.3	14.5	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

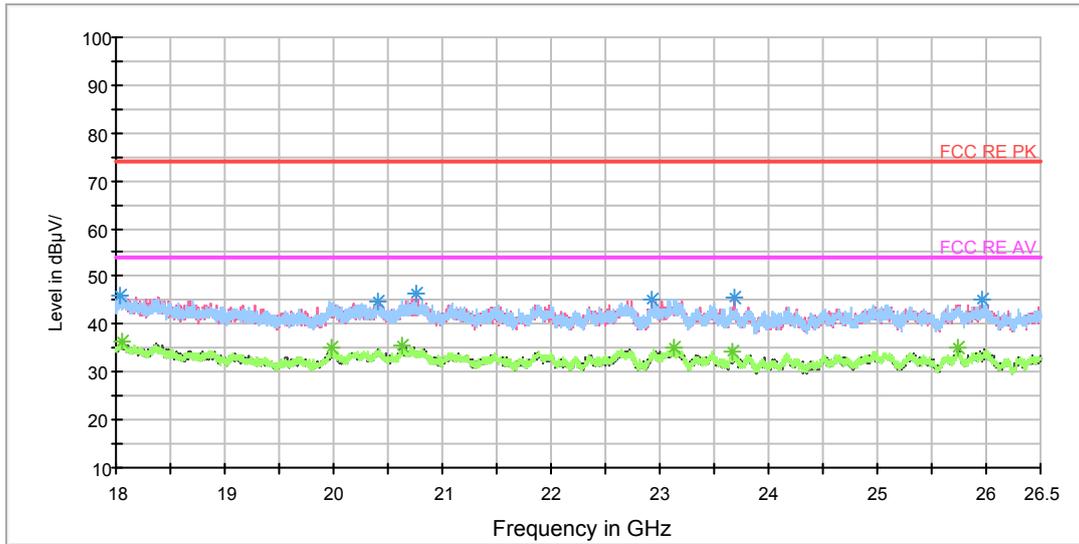
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3939.375000	39.4	100.0	V	0.0	40.5	-1.1	34.6	74
5296.875000	42.7	100.0	H	57.0	40.3	2.4	31.3	74
6991.875000	46.5	100.0	H	195.0	40.0	6.5	27.5	74
9725.625000	48.3	100.0	V	0.0	38.7	9.6	25.7	74
13158.750000	51.2	100.0	H	0.0	37.1	14.1	22.8	74
17765.625000	62.1	100.0	V	274.0	37.9	24.2	11.9	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)
4040.625000	27.7	100.0	V	0.0	28.7	-1.0	26.3	54
5435.625000	30.8	100.0	V	164.0	27.9	2.9	23.2	54
6967.500000	34.3	100.0	V	192.0	28.0	6.3	19.7	54
9241.875000	35.9	100.0	H	308.0	26.0	9.9	18.1	54
12641.250000	40.1	100.0	H	223.0	25.6	14.5	13.9	54
17994.375000	50.7	100.0	V	109.0	25.4	25.3	3.3	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)
18042.500000	46.2	V	190.0	48.2	-2.0	27.8	74
20402.312500	44.9	H	123.0	51.0	-6.1	29.1	74
20758.250000	46.5	V	300.0	53.3	-6.8	27.5	74
22930.000000	45.4	V	300.0	51.7	-6.3	28.6	74
23690.750000	45.5	V	255.0	51.4	-5.9	28.5	74
25962.375000	45.2	H	111.0	50.6	-5.4	28.8	74

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

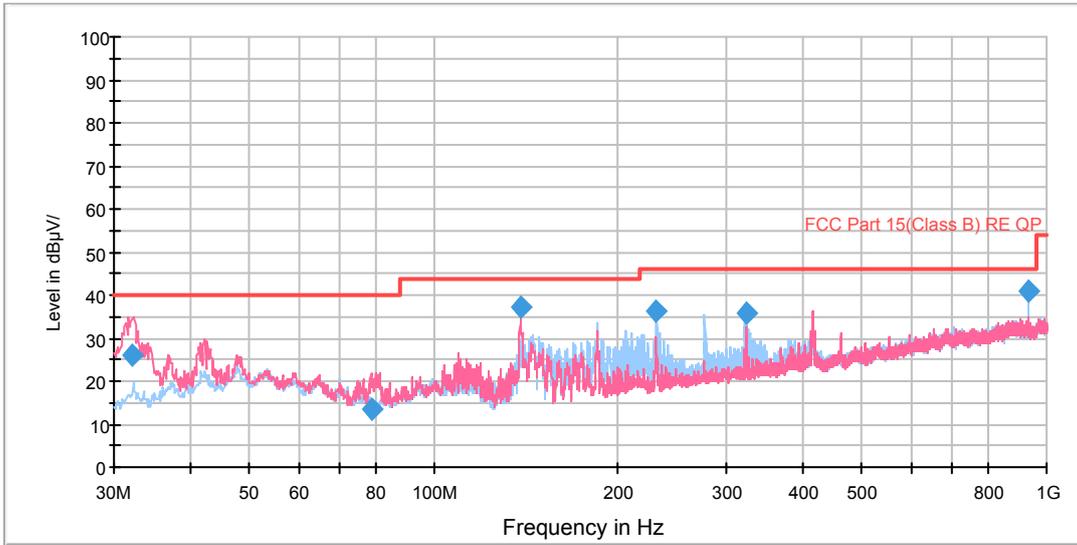
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18048.875000	36.5	V	215.0	38.5	-2.0	17.5	54
19983.687500	35.1	H	251.0	40.8	-5.7	18.9	54
20623.312500	35.4	V	190.0	41.9	-6.5	18.6	54
23127.625000	35.2	V	300.0	41.3	-6.1	18.8	54
23664.187500	34.2	H	123.0	40.1	-5.9	19.8	54
25746.687500	35.1	V	229.0	40.7	-5.6	18.9	54

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



802.11b CH6

RE 30M-1GHz QP

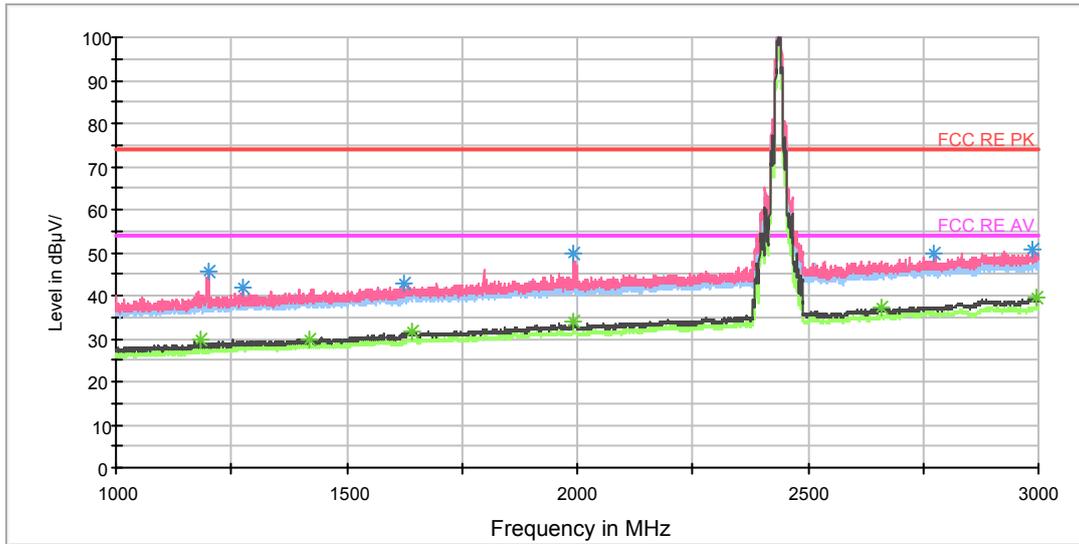


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
32.222990	25.9	101.0	V	342.0	38.4	-12.5	14.1	40.0
79.060910	13.4	125.0	V	104.0	32.1	-18.7	26.6	40.0
138.410560	37.3	102.0	V	211.0	56.8	-19.5	6.2	43.5
230.532250	36.2	125.0	H	70.0	51.8	-15.6	9.8	46.0
322.931750	35.6	101.0	H	185.0	48.7	-13.1	10.4	46.0
932.050000	40.9	102.0	H	70.0	43.9	-3.0	5.1	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

RE 1G-3GHz PK+AV



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

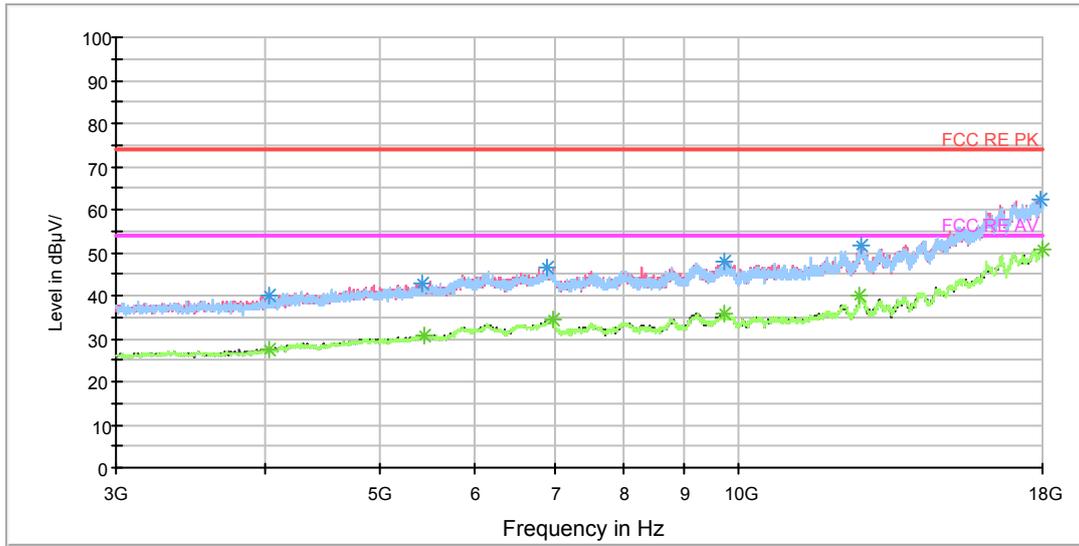
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1200.750000	45.4	105.0	V	172.0	53.6	-8.2	28.6	74
1275.750000	42.0	105.0	V	154.0	49.6	-7.6	32.0	74
1624.000000	42.9	105.0	V	72.0	47.7	-4.8	31.1	74
1992.250000	49.9	105.0	V	0.0	53.2	-3.3	24.1	74
2775.000000	49.8	105.0	V	0.0	49.0	0.8	24.2	74
2988.250000	50.5	105.0	V	110.0	48.3	2.2	23.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.500000	29.7	105.0	V	154.0	37.8	-8.1	24.3	54
1418.000000	29.8	105.0	V	72.0	36.7	-6.9	24.2	54
1643.250000	31.5	105.0	V	98.0	36.3	-4.8	22.5	54
1992.250000	34.0	105.0	V	0.0	37.3	-3.3	20.0	54
2660.250000	37.4	105.0	V	81.0	37.0	0.4	16.6	54
2997.000000	39.6	105.0	V	90.0	37.3	2.3	14.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

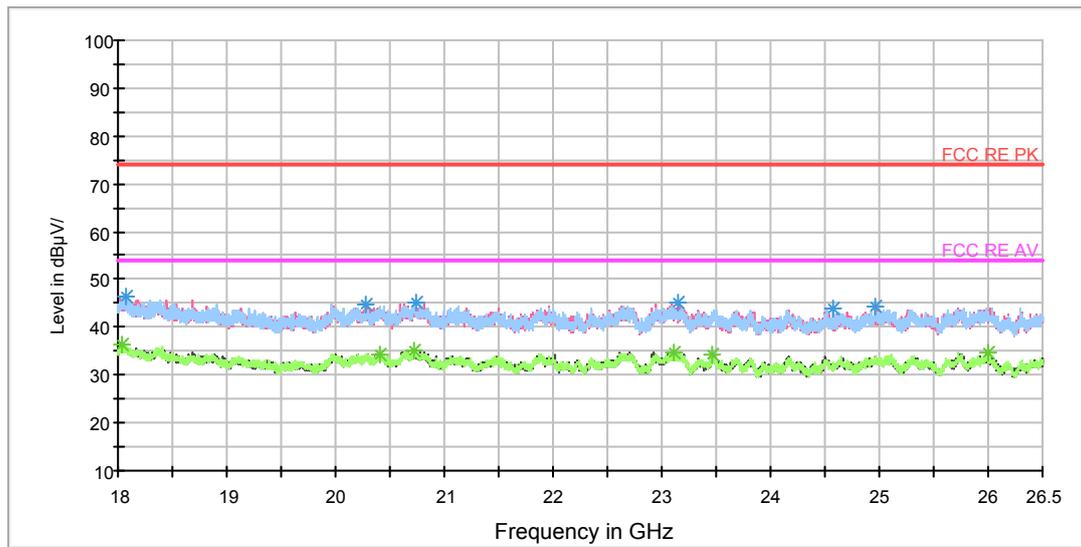
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4040.625000	39.9	100.0	V	23.0	40.9	-1.0	34.1	74
5430.000000	42.9	100.0	V	0.0	40.1	2.8	31.1	74
6903.750000	46.5	100.0	H	221.0	40.2	6.3	27.5	74
9714.375000	48.1	100.0	H	0.0	38.6	9.5	25.9	74
12680.625000	51.6	100.0	V	0.0	37.3	14.3	22.4	74
17962.500000	62.5	100.0	V	245.0	37.7	24.8	11.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4036.875000	27.4	100.0	V	0.0	28.4	-1.0	26.6	54
5441.250000	30.7	100.0	V	108.0	27.8	2.9	23.3	54
6978.750000	34.3	100.0	H	221.0	28.0	6.3	19.7	54
9738.750000	35.8	100.0	H	221.0	25.8	10.0	18.2	54
12639.375000	40.0	100.0	H	249.0	25.5	14.5	14.0	54
18000.000000	50.7	100.0	H	221.0	25.2	25.5	3.3	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)
18074.375000	46.6	101.0	H	48.7	-2.1	27.4	74
20285.437500	44.9	101.0	V	50.9	-6.0	29.1	74
20741.250000	45.0	101.0	V	51.8	-6.8	29.0	74
23157.375000	45.1	101.0	V	51.2	-6.1	28.9	74
24569.437500	43.8	101.0	H	49.8	-6.0	30.2	74
24958.312500	44.2	101.0	V	50.1	-5.9	29.8	74

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

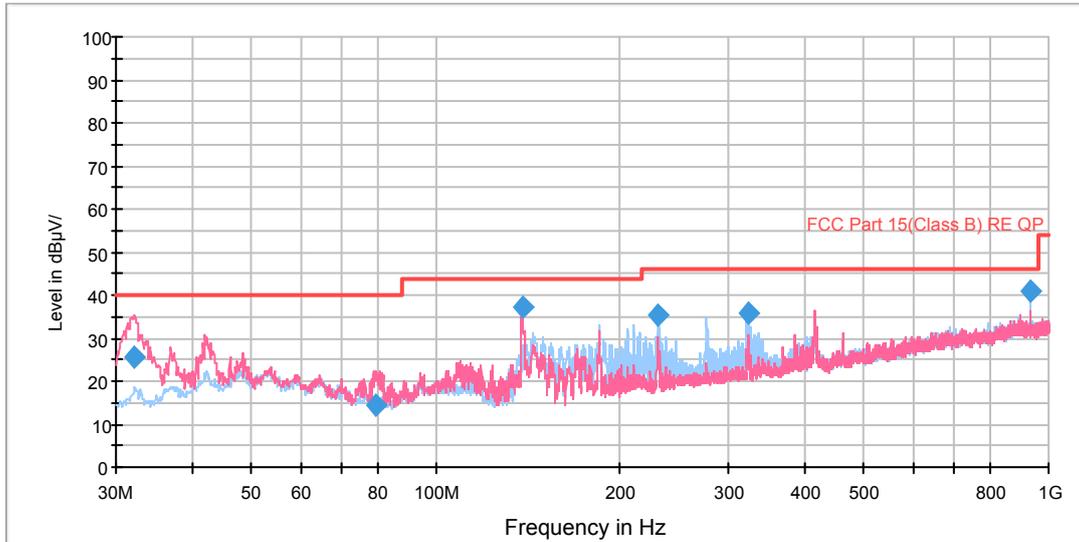
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18029.750000	36.4	101.0	V	38.3	-1.9	17.6	54
20406.562500	34.4	101.0	H	40.5	-6.1	19.6	54
20723.187500	35.0	101.0	V	41.7	-6.7	19.0	54
23108.500000	34.8	101.0	V	40.9	-6.1	19.2	54
23466.562500	34.2	101.0	V	40.1	-5.9	19.8	54
26008.062500	34.6	101.0	H	40.0	-5.4	19.4	54

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



802.11b CH11

RE 30M-1GHz QP

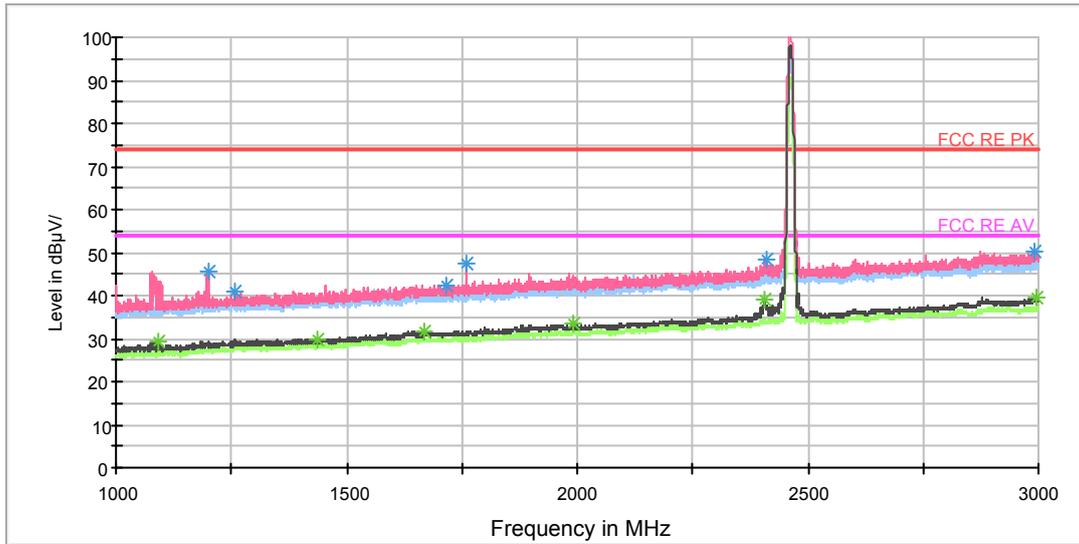


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
32.182044	25.4	101.0	V	54.0	37.9	-12.5	14.6	40.0
79.794166	14.3	126.0	V	76.0	33.1	-18.8	25.7	40.0
138.411506	37.3	101.0	V	211.0	56.8	-19.5	6.2	43.5
230.490250	35.6	126.0	H	56.0	51.2	-15.6	10.4	46.0
322.891000	35.6	101.0	H	185.0	48.7	-13.1	10.4	46.0
932.050000	41.0	101.0	H	70.0	44.0	-3.0	5.0	46.0

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

RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.500000	45.5	105.0	V	150.0	53.7	-8.2	28.5	74
1256.750000	40.9	105.0	V	55.0	48.8	-7.9	33.1	74
1716.500000	42.3	105.0	V	113.0	47.2	-4.9	31.7	74
1760.500000	47.6	105.0	V	10.0	52.3	-4.7	26.4	74
2408.500000	48.3	105.0	V	310.0	48.8	-0.5	25.7	74
2991.500000	50.3	105.0	V	55.0	48.1	2.2	23.7	74

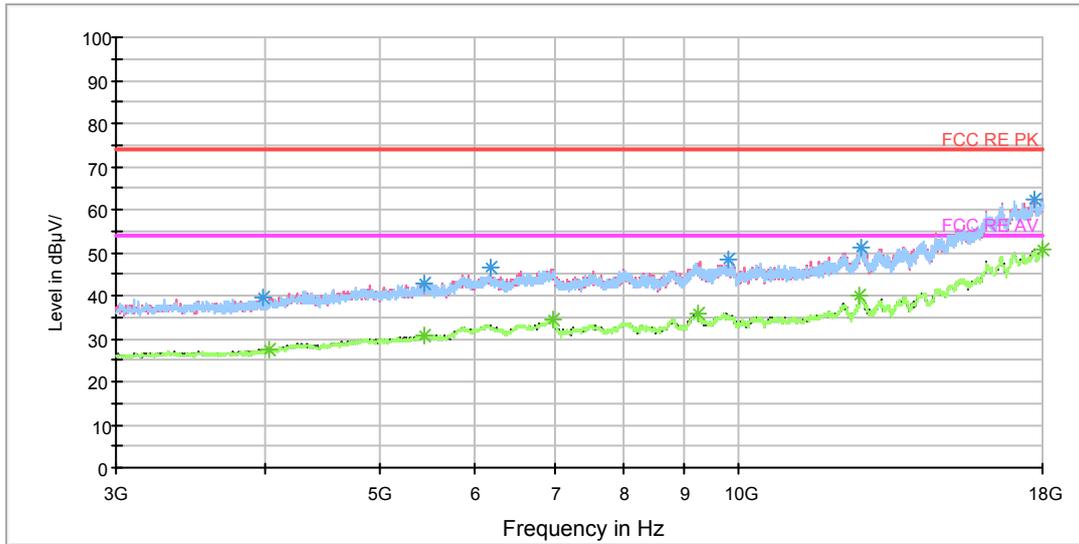
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1090.750000	29.5	105.0	V	271.0	38.4	-8.9	24.5	54
1438.000000	29.9	105.0	V	1.0	36.8	-6.9	24.1	54
1666.250000	31.5	105.0	V	0.0	36.6	-5.1	22.5	54
1990.000000	33.4	105.0	V	1.0	36.7	-3.3	20.6	54
2406.500000	39.2	105.0	V	310.0	39.9	-0.7	14.8	54
2994.750000	39.4	105.0	V	158.0	37.1	2.3	14.6	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

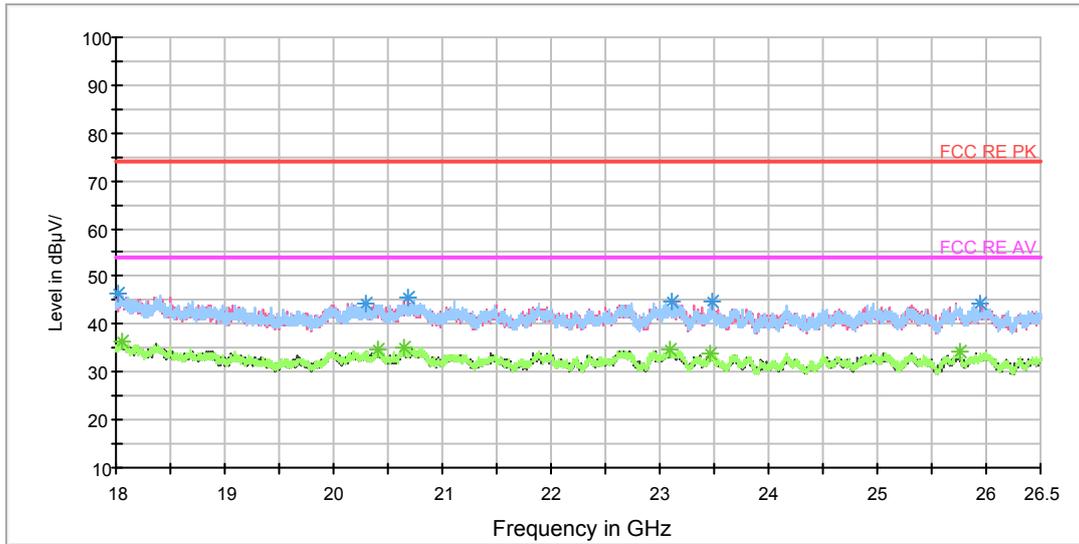
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3984.375000	39.4	100.0	H	280.0	40.4	-1.0	34.6	74
5445.000000	42.8	100.0	V	0.0	39.9	2.9	31.2	74
6195.000000	46.5	100.0	H	0.0	41.1	5.4	27.5	74
9798.750000	48.2	100.0	H	0.0	38.2	10.0	25.8	74
12678.750000	51.0	100.0	V	302.0	36.8	14.2	23.0	74
17705.625000	62.5	100.0	H	0.0	37.8	24.7	11.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4036.875000	27.4	100.0	V	329.0	28.4	-1.0	26.6	54
5435.625000	30.7	100.0	V	0.0	27.8	2.9	23.3	54
6993.750000	34.3	100.0	H	61.0	27.8	6.5	19.7	54
9238.125000	35.8	100.0	H	115.0	25.9	9.9	18.2	54
12641.250000	39.9	100.0	H	0.0	25.4	14.5	14.1	54
18000.000000	50.7	100.0	V	356.0	25.2	25.5	3.3	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)
18022.312500	46.2	V	300.0	48.1	-1.9	27.8	74
20303.500000	44.4	V	300.0	50.4	-6.0	29.6	74
20683.875000	45.4	V	300.0	52.0	-6.6	28.6	74
23112.750000	44.6	H	110.0	50.7	-6.1	29.4	74
23478.250000	44.6	V	216.0	50.5	-5.9	29.4	74
25939.000000	44.4	H	135.0	49.8	-5.4	29.6	74

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

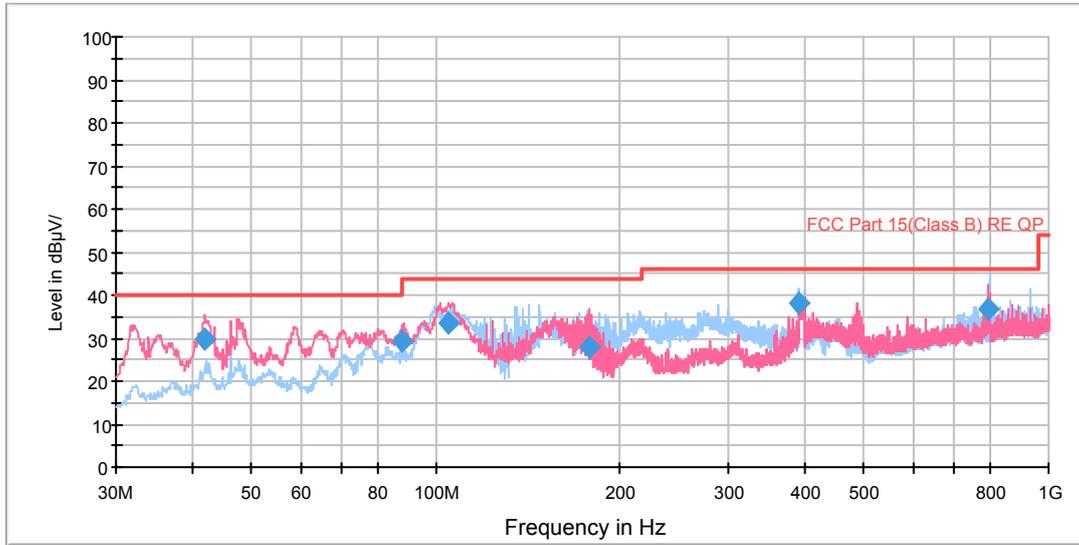
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18051.000000	36.4	V	300.0	38.4	-2.0	17.6	54
20404.437500	34.6	H	100.0	40.7	-6.1	19.4	54
20646.687500	35.1	H	100.0	41.7	-6.6	18.9	54
23094.687500	34.6	H	100.0	40.7	-6.1	19.4	54
23463.375000	34.1	H	100.0	40.0	-5.9	19.9	54
25757.312500	34.1	H	237.0	39.7	-5.6	19.9	54

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



802.11g CH1

RE 30M-1GHz QP

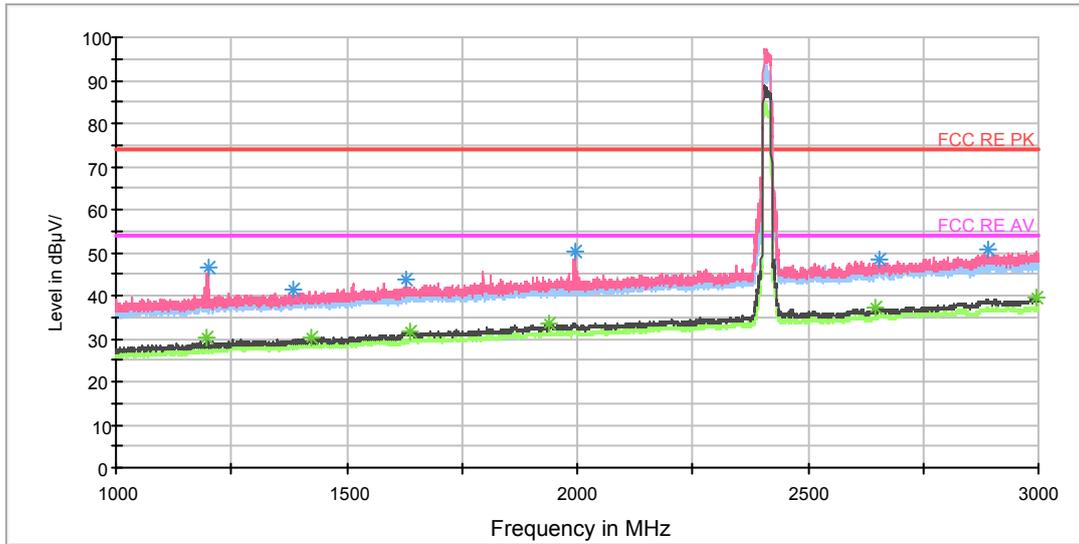


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
41.857794	29.7	100.0	V	89.0	40.1	-10.4	10.3	40.0
87.737606	29.3	100.0	V	15.0	46.5	-17.2	10.7	40.0
104.508275	33.3	100.0	V	0.0	49.1	-15.8	10.2	43.5
178.443975	27.8	100.0	V	234.0	46.1	-18.3	15.7	43.5
391.105000	38.0	100.0	H	115.0	49.3	-11.3	8.0	46.0
799.456750	36.6	100.0	H	200.0	41.4	-4.8	9.4	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

RE 1G-3GHz PK+AV



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

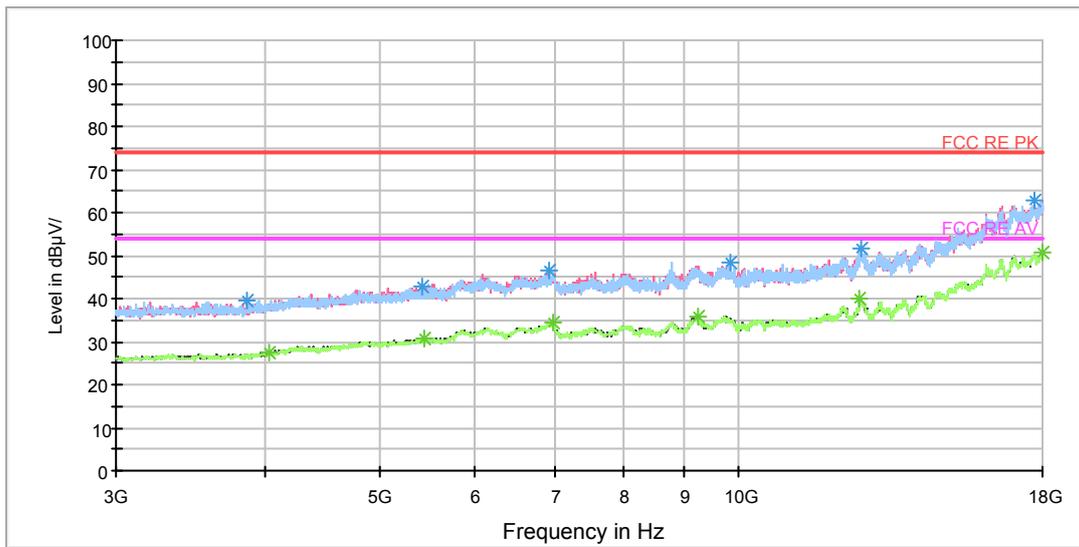
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.750000	46.5	105.0	V	153.0	54.7	-8.2	27.5	74
1385.750000	41.2	105.0	V	1.0	48.2	-7.0	32.8	74
1630.500000	43.9	105.0	V	1.0	48.6	-4.7	30.1	74
1997.000000	50.2	105.0	V	0.0	53.5	-3.3	23.8	74
2655.500000	48.3	105.0	V	29.0	47.9	0.4	25.7	74
2890.500000	50.5	105.0	V	199.0	48.3	2.2	23.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.250000	30.1	105.0	V	19.0	38.3	-8.2	23.9	54
1422.000000	30.1	105.0	V	1.0	37.0	-6.9	23.9	54
1638.500000	31.8	105.0	V	10.0	36.5	-4.7	22.2	54
1940.750000	33.5	105.0	V	82.0	37.1	-3.6	20.5	54
2646.750000	37.0	105.0	V	153.0	36.7	0.3	17.0	54
2997.000000	39.4	105.0	V	56.0	37.1	2.3	14.6	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

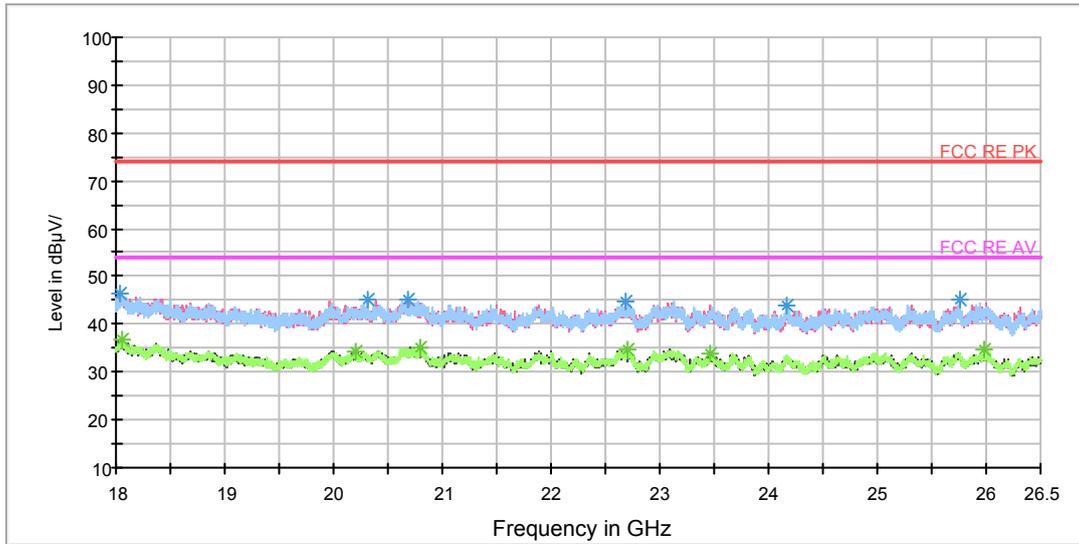
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3858.750000	39.5	100.0	V	110.0	41.1	-1.6	34.5	74
5416.875000	42.8	100.0	H	33.0	40.1	2.7	31.2	74
6943.125000	46.7	100.0	H	196.0	40.6	6.1	27.3	74
9845.625000	48.4	100.0	H	196.0	38.2	10.2	25.6	74
12654.375000	51.5	100.0	H	0.0	37.5	14.0	22.5	74
17709.375000	62.7	100.0	H	0.0	38.0	24.7	11.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4035.000000	27.5	100.0	H	279.0	28.5	-1.0	26.5	54
5446.875000	30.7	100.0	V	220.0	27.9	2.8	23.3	54
6997.500000	34.4	100.0	V	275.0	27.9	6.5	19.6	54
9240.000000	35.8	100.0	V	220.0	25.9	9.9	18.2	54
12639.375000	39.9	100.0	V	328.0	25.4	14.5	14.1	54
17998.125000	50.7	100.0	V	328.0	25.3	25.4	3.3	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)
18043.562500	46.3	V	300.0	48.3	-2.0	27.7	74
20317.312500	45.2	V	240.0	51.2	-6.0	28.8	74
20678.562500	45.1	V	164.0	51.7	-6.6	28.9	74
22689.875000	44.8	V	300.0	51.4	-6.6	29.2	74
24163.562500	43.7	H	100.0	49.6	-5.9	30.3	74
25752.000000	45.4	V	151.0	51.0	-5.6	28.6	74

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

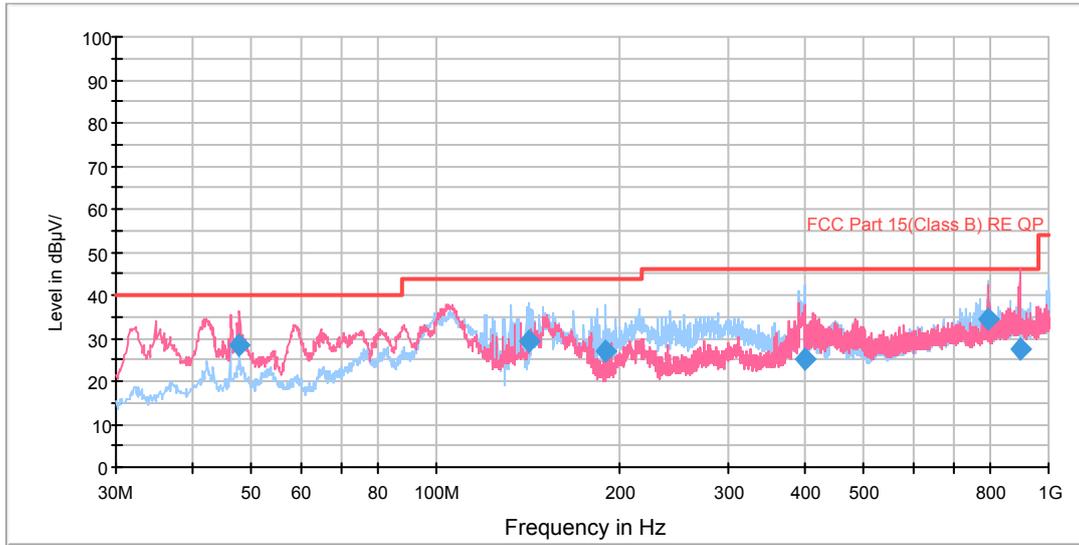
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18048.875000	36.8	V	202.0	38.8	-2.0	17.2	54
20204.687500	34.3	V	164.0	40.2	-5.9	19.7	54
20792.250000	35.0	V	240.0	41.9	-6.9	19.0	54
22703.687500	34.6	V	300.0	41.2	-6.6	19.4	54
23467.625000	34.1	H	100.0	40.0	-5.9	19.9	54
25983.625000	34.6	V	252.0	40.0	-5.4	19.4	54

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



802.11g CH6

RE 30M-1GHz QP

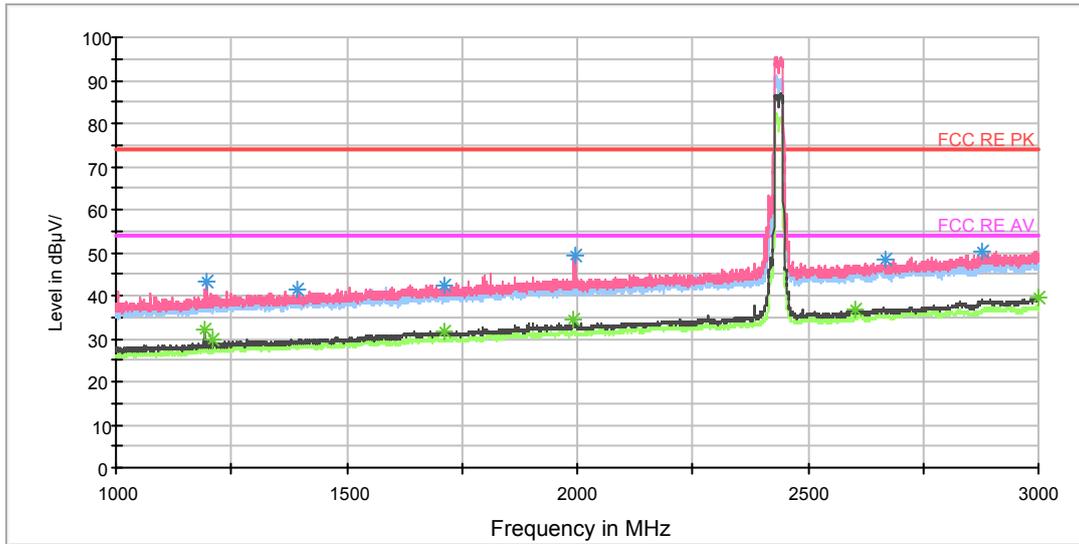


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
47.783244	28.5	100.0	V	105.0	38.7	-10.2	11.5	40.0
141.838019	29.2	125.0	H	0.0	48.9	-19.7	14.3	43.5
189.570140	26.8	120.0	H	33.0	44.1	-17.3	16.7	43.5
399.051000	25.0	100.0	H	12.0	35.9	-10.9	21.0	46.0
796.590250	34.6	121.0	H	199.0	39.4	-4.8	11.4	46.0
899.588500	27.5	120.0	V	143.0	30.4	-2.9	18.5	46.0

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

RE 1G-3GHz PK+AV



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

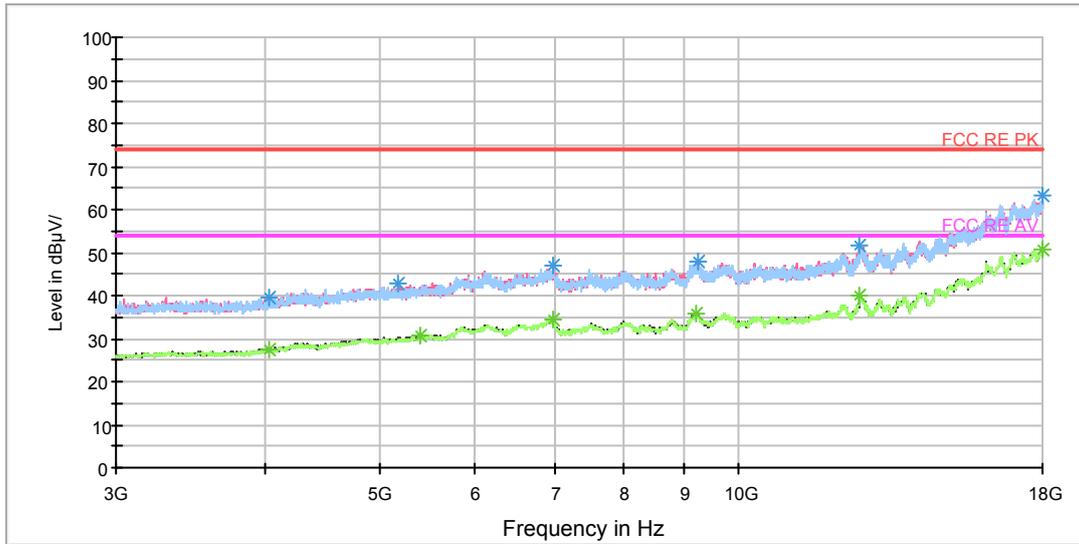
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.750000	43.4	105.0	V	81.0	51.6	-8.2	30.6	74
1395.000000	41.3	105.0	V	237.0	48.4	-7.1	32.7	74
1711.250000	42.5	105.0	V	20.0	47.3	-4.8	31.5	74
1995.000000	49.4	105.0	V	64.0	52.6	-3.2	24.6	74
2667.000000	48.6	105.0	V	38.0	48.3	0.3	25.4	74
2878.500000	50.4	105.0	V	127.0	48.1	2.3	23.6	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)
1191.500000	32.2	105.0	V	171.0	40.4	-8.2	21.8	54
1211.250000	30.0	105.0	V	0.0	38.0	-8.0	24.0	54
1711.250000	31.6	105.0	V	20.0	36.4	-4.8	22.4	54
1990.750000	34.3	105.0	V	0.0	37.6	-3.3	19.7	54
2604.500000	36.9	105.0	V	0.0	36.6	0.3	17.1	54
2999.000000	39.6	105.0	V	38.0	37.3	2.3	14.4	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

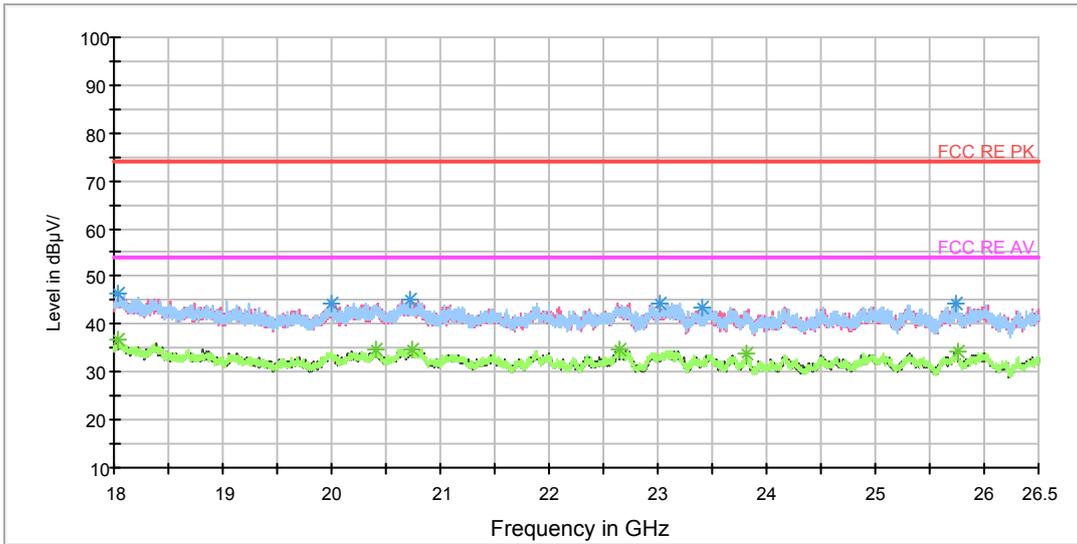
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4040.625000	39.7	100.0	V	355.0	40.7	-1.0	34.3	74
5178.750000	43.0	100.0	H	0.0	40.8	2.2	31.0	74
6995.625000	47.0	100.0	H	139.0	40.5	6.5	27.0	74
9249.375000	48.1	100.0	V	23.0	38.4	9.7	25.9	74
12650.625000	51.8	100.0	H	193.0	37.7	14.1	22.2	74
17977.500000	63.1	100.0	V	355.0	38.2	24.9	10.9	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)
4035.000000	27.4	100.0	H	166.0	28.4	-1.0	26.6	54
5411.250000	30.7	100.0	V	165.0	28.1	2.6	23.3	54
6995.625000	34.3	100.0	V	0.0	27.8	6.5	19.7	54
9228.750000	35.9	100.0	V	0.0	26.0	9.9	18.1	54
12641.250000	39.9	100.0	V	138.0	25.4	14.5	14.1	54
18000.000000	50.7	100.0	H	57.0	25.2	25.5	3.3	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)
18034.000000	46.5	V	275.0	48.4	-1.9	27.5	74
20000.687500	44.3	V	300.0	50.0	-5.7	29.7	74
20715.750000	45.1	H	100.0	51.8	-6.7	28.9	74
23022.437500	44.5	H	100.0	50.6	-6.1	29.5	74
23412.375000	43.5	H	100.0	49.4	-5.9	30.5	74
25738.187500	44.1	V	300.0	49.7	-5.6	29.9	74

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

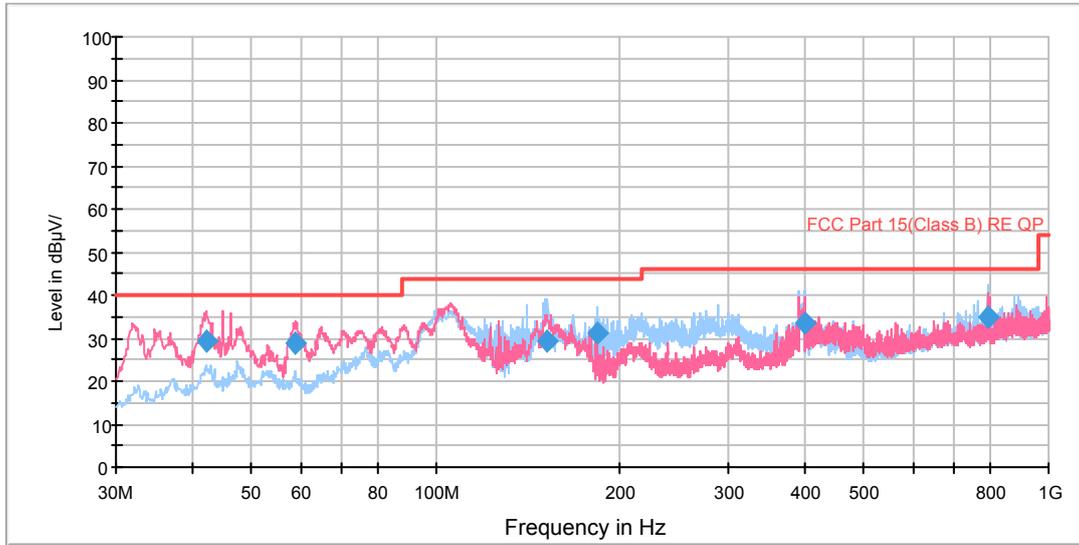
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18031.875000	36.9	H	100.0	38.8	-1.9	17.1	54
20400.187500	34.7	H	121.0	40.8	-6.1	19.3	54
20735.937500	34.9	H	100.0	41.7	-6.8	19.1	54
22647.375000	34.7	H	134.0	41.4	-6.7	19.3	54
23816.125000	33.7	V	300.0	39.6	-5.9	20.3	54
25755.187500	34.2	V	205.0	39.8	-5.6	19.8	54

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



802.11g CH11

RE 30M-1GHz QP

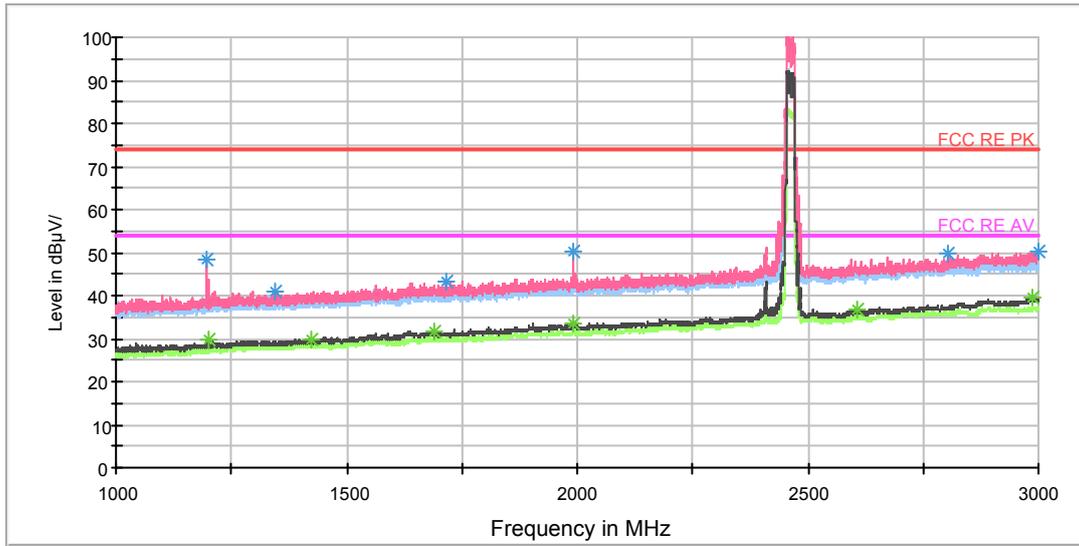


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
42.230313	29.1	120.0	V	99.0	39.5	-10.4	10.9	40.0
59.031303	28.9	98.0	V	143.0	41.8	-12.9	11.1	40.0
152.239450	29.4	125.0	H	12.0	48.6	-19.2	14.1	43.5
183.363744	31.1	125.0	H	80.0	48.8	-17.7	12.4	43.5
398.807500	33.3	100.0	H	126.0	44.2	-10.9	12.7	46.0
799.771250	34.7	120.0	H	206.0	39.5	-4.8	11.3	46.0

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

RE 1G-3GHz PK+AV



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

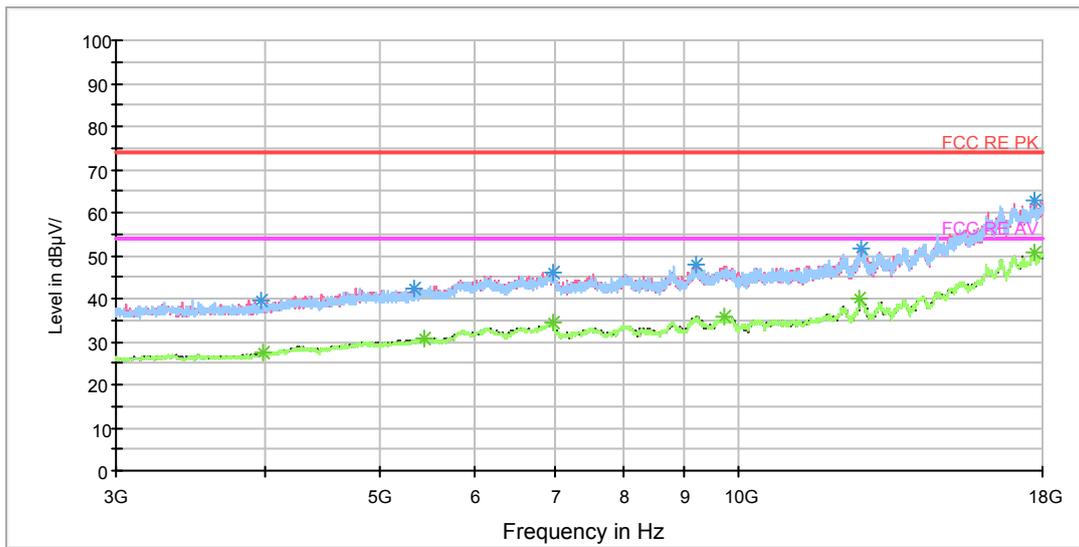
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.500000	48.5	105.0	V	144.0	56.7	-8.2	25.5	74
1345.000000	41.1	105.0	V	29.0	48.6	-7.5	32.9	74
1718.000000	43.4	105.0	V	37.0	48.3	-4.9	30.6	74
1991.250000	50.2	105.0	V	81.0	53.5	-3.3	23.8	74
2805.250000	49.9	105.0	V	91.0	48.7	1.2	24.1	74
2998.500000	50.1	105.0	V	37.0	47.8	2.3	23.9	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)
1199.250000	29.7	105.0	V	163.0	37.9	-8.2	24.3	54
1425.250000	30.0	105.0	V	81.0	36.9	-6.9	24.0	54
1691.500000	31.6	105.0	V	72.0	36.6	-5.0	22.4	54
1990.000000	33.6	105.0	V	258.0	36.9	-3.3	20.4	54
2607.250000	36.7	105.0	V	127.0	36.5	0.2	17.3	54
2987.750000	39.4	105.0	V	4.0	37.2	2.2	14.6	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

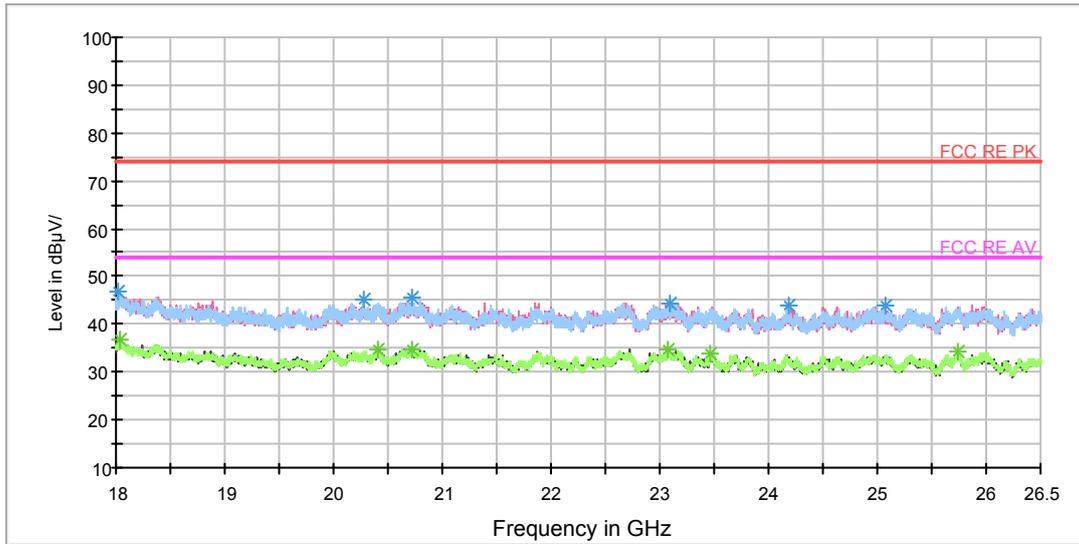
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3971.250000	39.5	100.0	H	0.0	40.4	-0.9	34.5	74
5334.375000	42.6	100.0	V	193.0	40.3	2.3	31.4	74
6997.500000	46.2	100.0	V	247.0	39.7	6.5	27.8	74
9225.000000	48.0	100.0	V	165.0	38.1	9.9	26.0	74
12688.125000	51.5	100.0	V	220.0	37.3	14.2	22.5	74
17724.375000	62.6	100.0	V	330.0	38.1	24.5	11.4	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)
3988.125000	27.4	100.0	V	357.0	28.4	-1.0	26.6	54
5446.875000	30.7	100.0	V	0.0	27.9	2.8	23.3	54
6997.500000	34.5	100.0	V	247.0	28.0	6.5	19.5	54
9740.625000	36.0	100.0	V	0.0	26.0	10.0	18.0	54
12641.250000	39.9	100.0	V	274.0	25.4	14.5	14.1	54
17709.375000	50.6	100.0	V	0.0	25.9	24.7	3.4	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)
18024.437500	46.7	V	293.0	48.6	-1.9	27.3	74
20285.437500	45.1	H	173.0	51.1	-6.0	28.9	74
20714.687500	45.5	H	209.0	52.2	-6.7	28.5	74
23086.187500	44.5	H	160.0	50.6	-6.1	29.5	74
24179.500000	43.9	H	110.0	49.8	-5.9	30.1	74
25066.687500	43.9	H	222.0	49.8	-5.9	30.1	74

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

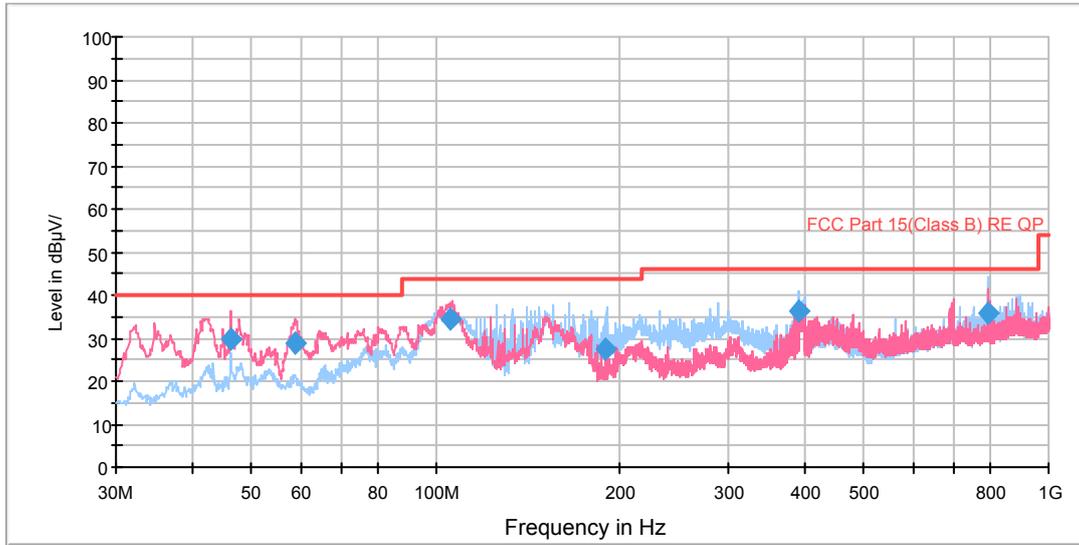
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18042.500000	36.6	V	300.0	38.6	-2.0	17.4	54
20408.687500	34.6	H	100.0	40.7	-6.1	19.4	54
20726.375000	34.9	V	217.0	41.7	-6.8	19.1	54
23073.437500	34.7	H	147.0	40.8	-6.1	19.3	54
23467.625000	33.8	H	100.0	39.7	-5.9	20.2	54
25738.187500	34.1	H	173.0	39.7	-5.6	19.9	54

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



802.11n (HT20) CH1

RE 30M-1GHz QP

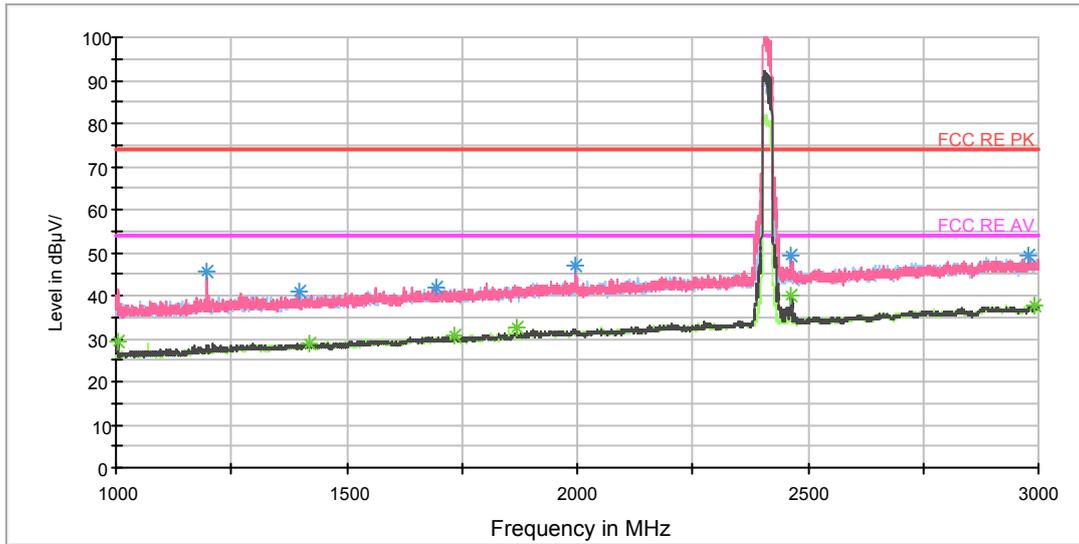


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
46.291881	29.8	100.0	V	61.0	40.3	-10.5	10.2	40.0
58.870356	28.9	101.0	V	120.0	41.8	-12.9	11.1	40.0
105.838690	34.3	100.0	V	15.0	50.1	-15.8	9.2	43.5
189.612034	27.4	125.0	H	23.0	44.7	-17.3	16.1	43.5
391.105000	36.5	100.0	H	103.0	47.8	-11.3	9.5	46.0
796.592250	35.9	100.0	H	193.0	40.7	-4.8	10.1	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

RE 1G-3GHz PK+AV



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

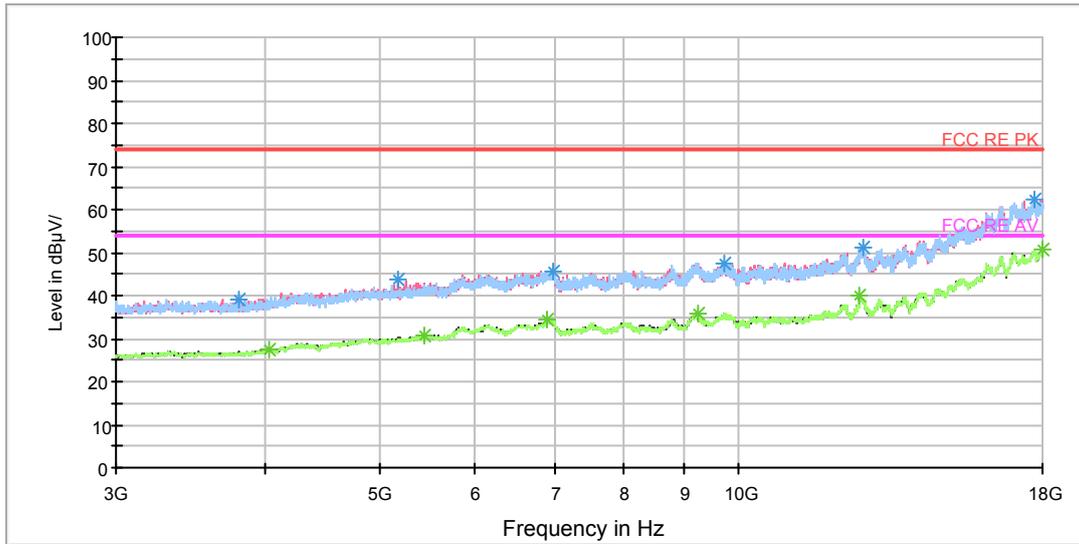
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.750000	45.5	105.0	V	77.0	53.7	-8.2	28.5	74
1397.500000	41.2	105.0	V	219.0	48.3	-7.1	32.8	74
1694.250000	41.9	105.0	H	344.0	46.9	-5.0	32.1	74
1996.000000	47.1	105.0	V	202.0	50.4	-3.3	26.9	74
2464.750000	49.4	105.0	V	317.0	49.9	-0.5	24.6	74
2976.500000	49.5	105.0	H	8.0	47.3	2.2	24.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1004.500000	29.1	105.0	V	202.0	38.4	-9.3	24.9	54
1419.000000	28.9	105.0	H	144.0	35.8	-6.9	25.1	54
1731.500000	30.5	105.0	H	275.0	35.3	-4.8	23.5	54
1869.250000	32.6	105.0	V	86.0	36.3	-3.7	21.4	54
2463.500000	40.1	105.0	V	317.0	40.6	-0.5	13.9	54
2990.000000	37.8	105.0	H	266.0	35.6	2.2	16.2	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

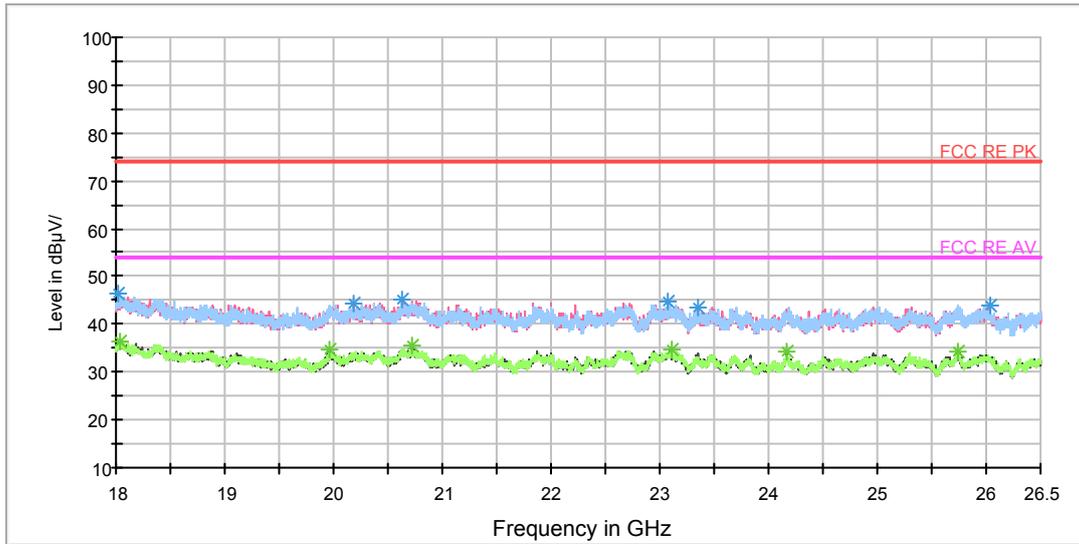
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3808.125000	39.2	100.0	V	245.0	40.9	-1.7	34.8	74
5182.500000	43.8	100.0	V	245.0	41.6	2.2	30.2	74
6973.125000	45.7	100.0	V	0.0	39.4	6.3	28.3	74
9738.750000	47.7	100.0	H	84.0	37.7	10.0	26.3	74
12714.375000	51.3	100.0	V	0.0	37.4	13.9	22.7	74
17707.500000	62.2	100.0	V	0.0	37.5	24.7	11.8	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)
4036.875000	27.4	100.0	H	0.0	28.4	-1.0	26.6	54
5441.250000	30.7	100.0	V	108.0	27.8	2.9	23.3	54
6907.500000	34.4	100.0	V	137.0	28.2	6.2	19.6	54
9238.125000	35.8	100.0	V	137.0	25.9	9.9	18.2	54
12639.375000	39.9	100.0	V	163.0	25.4	14.5	14.1	54
18000.000000	50.7	100.0	V	0.0	25.2	25.5	3.3	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)
18010.625000	46.5	V	276.0	48.3	-1.8	27.5	74
20181.312500	44.4	V	300.0	50.3	-5.9	29.6	74
20629.687500	45.1	H	136.0	51.6	-6.5	28.9	74
23066.000000	44.9	V	276.0	51.0	-6.1	29.1	74
23352.875000	43.6	V	100.0	49.5	-5.9	30.4	74
26037.812500	43.9	H	100.0	49.3	-5.4	30.1	74

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

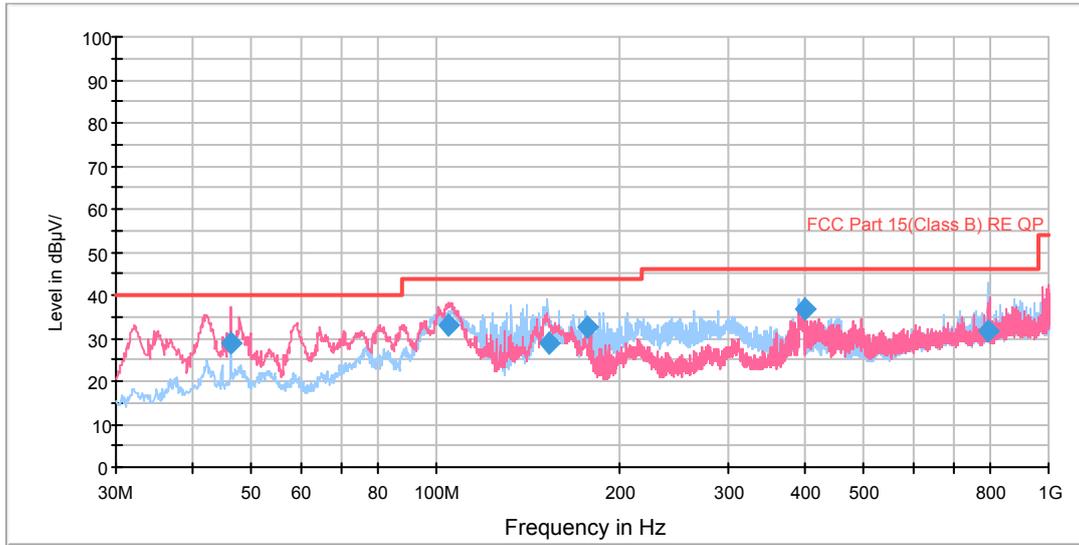
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18037.187500	36.5	V	299.0	38.5	-2.0	17.5	54
19956.062500	34.7	V	300.0	40.4	-5.7	19.3	54
20727.437500	35.5	V	161.0	42.3	-6.8	18.5	54
23107.437500	34.6	H	160.0	40.7	-6.1	19.4	54
24165.687500	34.1	V	251.0	40.0	-5.9	19.9	54
25735.000000	34.2	H	110.0	39.8	-5.6	19.8	54

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



802.11n (HT20) CH6

RE 30M-1GHz QP

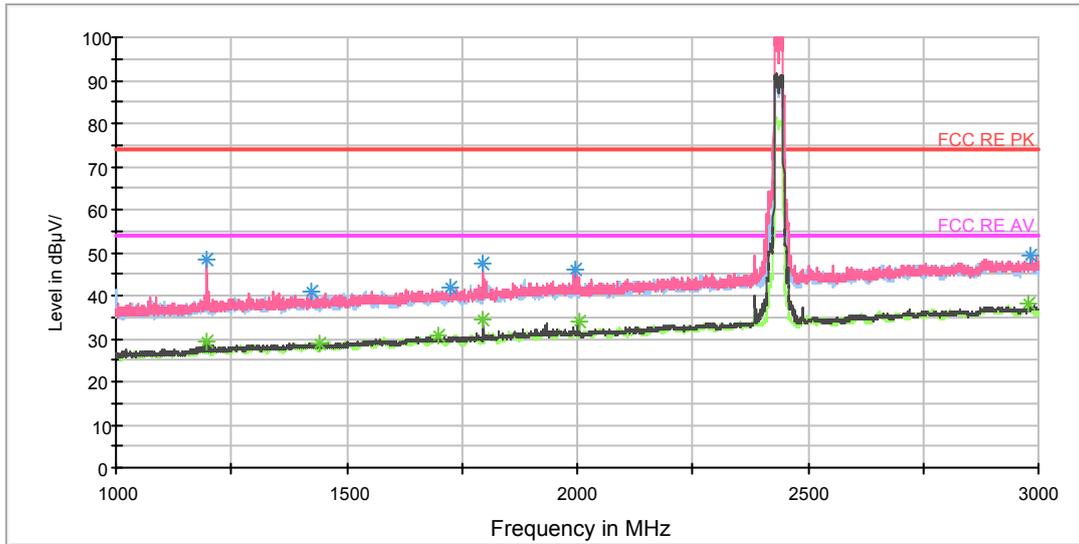


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
46.291881	29.0	100.0	V	132.0	39.5	-10.5	11.0	40.0
104.829222	33.2	102.0	V	15.0	49.0	-15.8	10.3	43.5
152.359450	29.0	126.0	H	25.0	48.2	-19.2	14.5	43.5
176.023144	32.4	126.0	H	89.0	51.0	-18.6	11.1	43.5
399.127500	36.6	101.0	H	114.0	47.5	-10.9	9.4	46.0
799.723250	31.4	102.0	H	153.0	36.2	-4.8	14.6	46.0

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

RE 1G-3GHz PK+AV



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

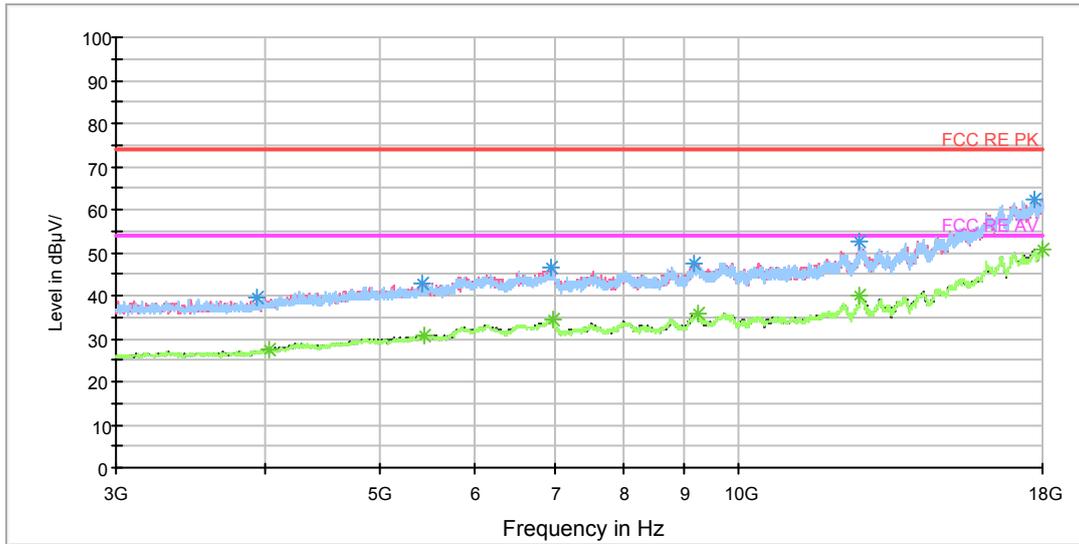
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.250000	48.4	105.0	V	165.0	56.6	-8.2	25.6	74
1423.500000	40.8	105.0	V	317.0	47.7	-6.9	33.2	74
1726.250000	42.1	105.0	H	144.0	47.2	-5.1	31.9	74
1796.750000	47.4	105.0	V	110.0	51.5	-4.1	26.6	74
1995.250000	46.2	105.0	V	156.0	49.4	-3.2	27.8	74
2982.750000	49.1	105.0	H	108.0	46.9	2.2	24.9	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)
1195.000000	29.4	105.0	V	31.0	37.6	-8.2	24.6	54
1439.250000	28.9	105.0	V	76.0	35.8	-6.9	25.1	54
1697.000000	30.5	105.0	H	336.0	35.5	-5.0	23.5	54
1796.750000	34.3	105.0	V	110.0	38.4	-4.1	19.7	54
2002.500000	34.0	105.0	V	0.0	37.5	-3.5	20.0	54
2978.250000	38.2	105.0	H	300.0	36.0	2.2	15.8	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

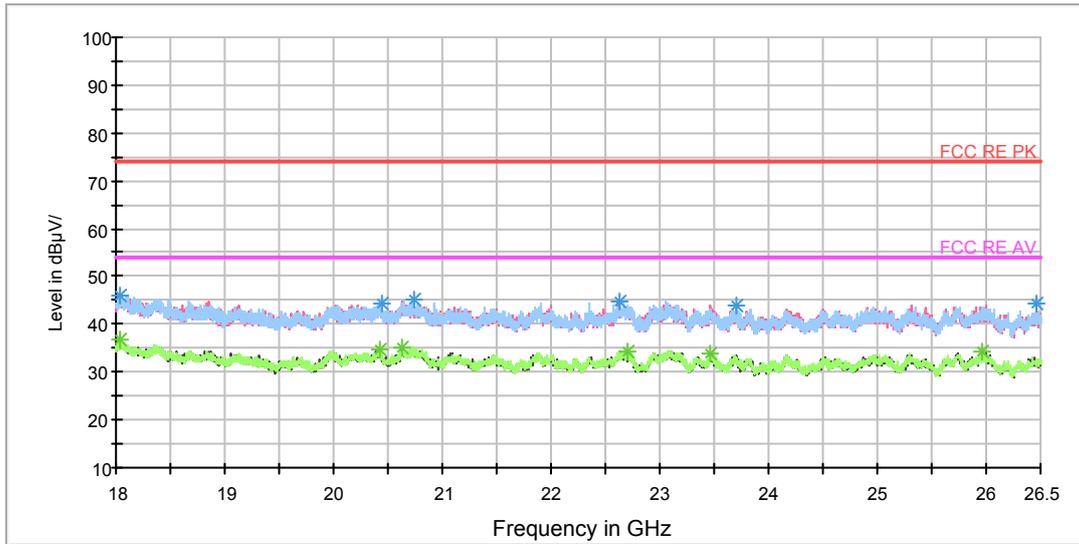
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3937.500000	39.3	100.0	V	0.0	40.4	-1.1	34.7	74
5418.750000	42.7	100.0	V	0.0	40.0	2.7	31.3	74
6969.375000	46.7	100.0	H	81.0	40.4	6.3	27.3	74
9159.375000	47.7	100.0	H	109.0	37.3	10.4	26.3	74
12639.375000	52.7	100.0	V	298.0	38.2	14.5	21.3	74
17694.375000	62.2	100.0	H	307.0	37.6	24.6	11.8	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)
4038.750000	27.5	100.0	V	298.0	28.5	-1.0	26.5	54
5437.500000	30.6	100.0	V	326.0	27.7	2.9	23.4	54
6997.500000	34.5	100.0	H	0.0	28.0	6.5	19.5	54
9234.375000	36.0	100.0	V	219.0	26.1	9.9	18.0	54
12639.375000	39.8	100.0	H	191.0	25.3	14.5	14.2	54
18000.000000	50.6	100.0	H	219.0	25.1	25.5	3.4	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)
18037.187500	46.0	V	300.0	48.0	-2.0	28.0	74
20442.687500	44.3	H	185.0	50.4	-6.1	29.7	74
20738.062500	45.0	H	120.0	51.8	-6.8	29.0	74
22631.437500	44.7	V	300.0	51.4	-6.7	29.3	74
23698.187500	43.8	H	100.0	49.7	-5.9	30.2	74
26467.062500	44.2	V	300.0	49.6	-5.4	29.8	74

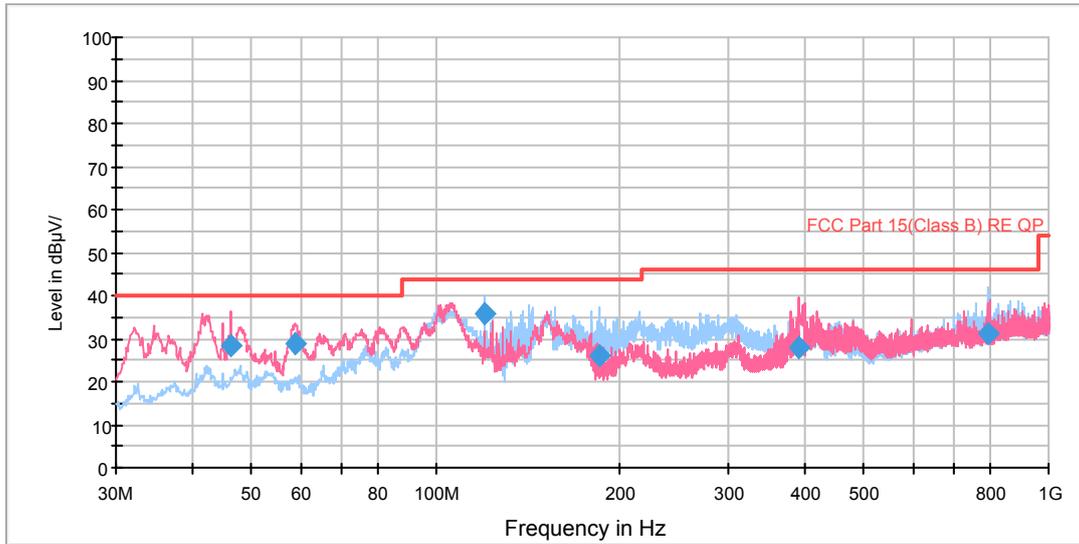
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18031.875000	36.7	H	172.0	38.6	-1.9	17.3	54
20418.250000	34.5	H	100.0	40.6	-6.1	19.5	54
20632.875000	35.2	V	283.0	41.7	-6.5	18.8	54
22702.625000	34.4	V	229.0	41.0	-6.6	19.6	54
23459.125000	33.7	H	158.0	39.6	-5.9	20.3	54
25958.125000	34.1	H	172.0	39.5	-5.4	19.9	54

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

802.11n (HT20) CH11

RE 30M-1GHz QP

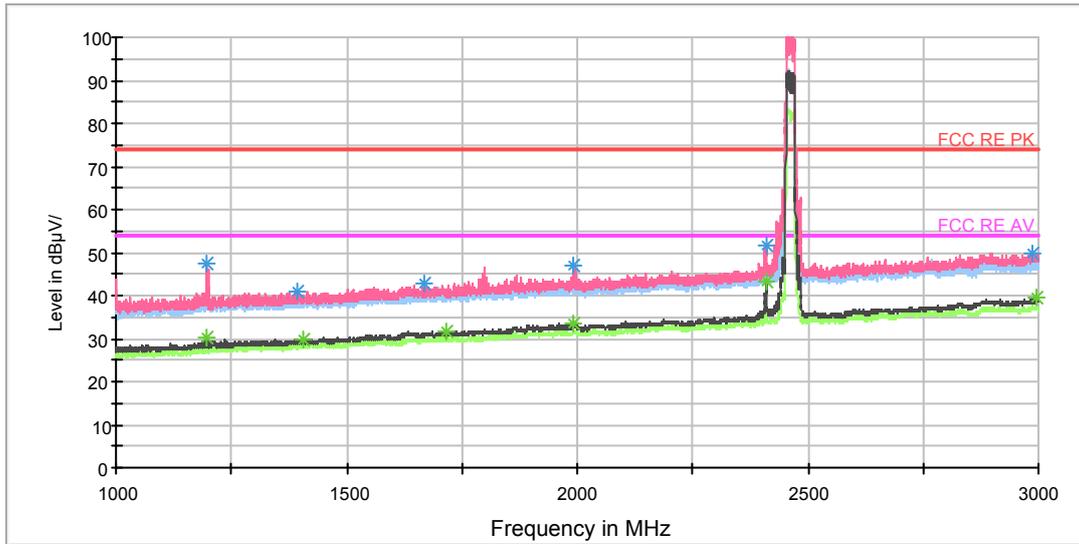


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
46.331881	28.2	120.0	V	108.0	38.7	-10.5	11.8	40.0
58.883091	28.9	100.0	V	119.0	41.8	-12.9	11.1	40.0
119.987581	35.8	125.0	H	15.0	53.4	-17.6	7.7	43.5
185.176053	26.1	125.0	H	45.0	43.5	-17.4	17.4	43.5
390.661750	27.7	125.0	V	132.0	39.0	-11.3	18.3	46.0
798.313750	31.0	100.0	H	148.0	35.8	-4.8	15.0	46.0

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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

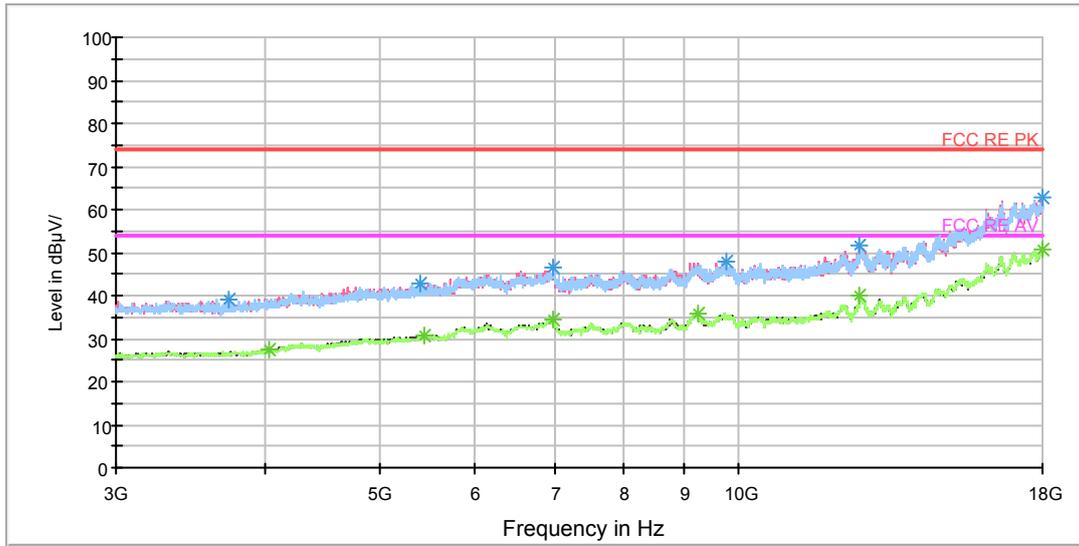
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.750000	47.5	105.0	V	158.0	55.7	-8.2	26.5	74
1393.000000	41.0	105.0	V	209.0	48.0	-7.0	33.0	74
1667.500000	42.6	105.0	V	227.0	47.7	-5.1	31.4	74
1992.750000	46.9	105.0	H	323.0	50.2	-3.3	27.1	74
2408.750000	51.5	105.0	V	330.0	52.0	-0.5	22.5	74
2987.000000	50.0	105.0	V	149.0	47.8	2.2	24.0	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.750000	30.0	105.0	V	158.0	38.2	-8.2	24.0	54
1405.250000	29.8	105.0	V	141.0	36.9	-7.1	24.2	54
1716.750000	31.7	105.0	V	199.0	36.6	-4.9	22.3	54
1993.250000	33.4	105.0	V	7.0	36.7	-3.3	20.6	54
2410.500000	43.1	105.0	V	330.0	43.6	-0.5	10.9	54
2995.500000	39.3	105.0	V	34.0	37.0	2.3	14.7	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

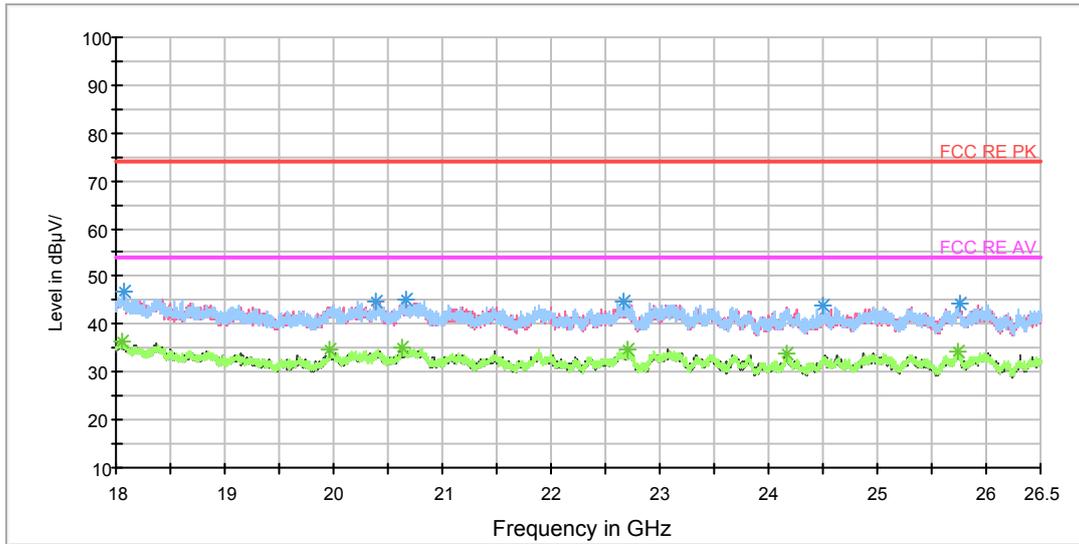
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3735.000000	39.1	100.0	V	0.0	40.8	-1.7	34.9	74
5392.500000	42.6	100.0	V	331.0	40.2	2.4	31.4	74
6975.000000	46.6	100.0	H	8.0	40.3	6.3	27.4	74
9781.875000	47.8	100.0	H	61.0	38.0	9.8	26.2	74
12639.375000	51.8	100.0	V	357.0	37.3	14.5	22.2	74
17996.250000	62.8	100.0	V	0.0	37.4	25.4	11.2	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)
4036.875000	27.4	100.0	V	304.0	28.4	-1.0	26.6	54
5445.000000	30.7	100.0	V	195.0	27.8	2.9	23.3	54
6995.625000	34.4	100.0	H	115.0	27.9	6.5	19.6	54
9238.125000	35.7	100.0	V	135.0	25.8	9.9	18.3	54
12641.250000	39.8	100.0	V	135.0	25.3	14.5	14.2	54
18000.000000	50.9	100.0	V	0.0	25.4	25.5	3.1	54

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

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18079.687500	46.7	V	279.0	48.8	-2.1	27.3	74
20390.625000	44.7	H	238.0	50.8	-6.1	29.3	74
20672.187500	45.3	V	242.0	51.9	-6.6	28.7	74
22668.625000	44.6	H	100.0	51.2	-6.6	29.4	74
24492.937500	43.8	H	100.0	49.8	-6.0	30.2	74
25752.000000	44.3	V	300.0	49.9	-5.6	29.7	74

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

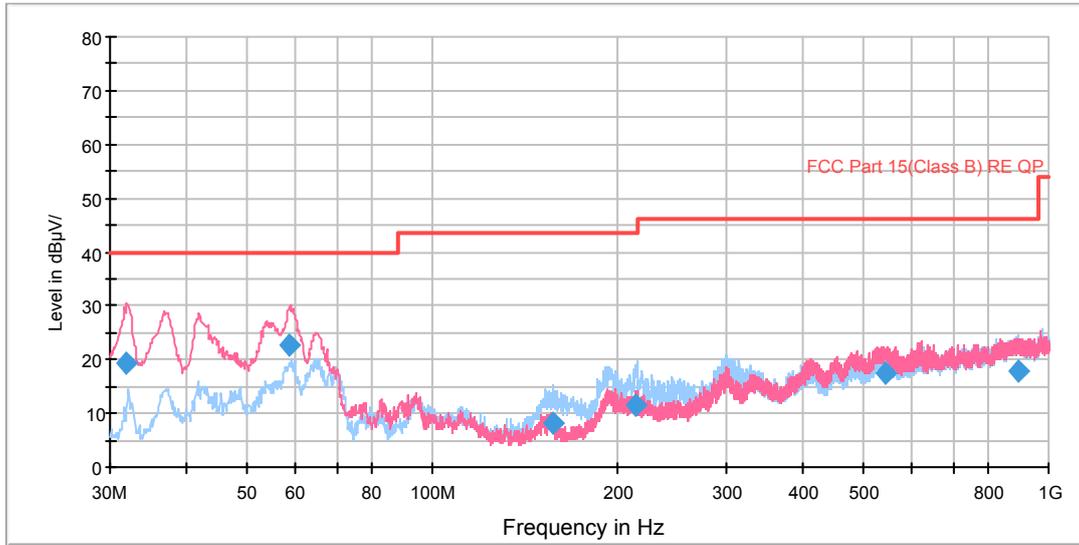
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18047.812500	36.5	H	162.0	38.5	-2.0	17.5	54
19964.562500	34.9	V	110.0	40.6	-5.7	19.1	54
20628.625000	35.0	H	238.0	41.5	-6.5	19.0	54
22711.125000	34.6	H	100.0	41.2	-6.6	19.4	54
24165.687500	33.8	V	204.0	39.7	-5.9	20.2	54
25748.812500	34.1	H	101.0	39.7	-5.6	19.9	54

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



BLE-Channel 0

RE 30M-1GHz QP

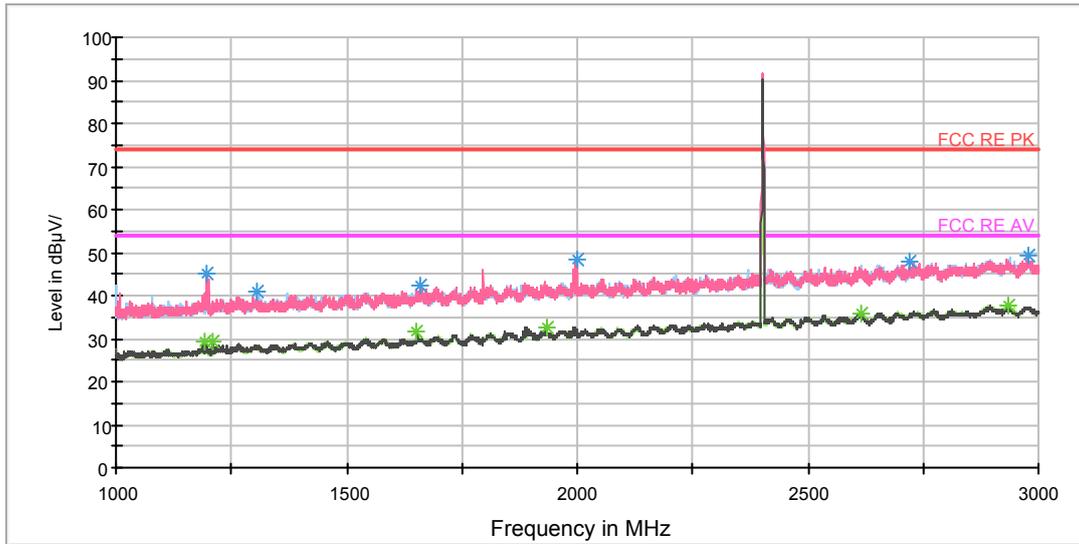


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.980150	19.4	100.0	V	305.0	41.9	-22.5	20.6	40.0
58.750356	22.6	100.0	V	247.0	45.5	-22.9	17.4	40.0
156.596378	8.1	120.0	H	284.0	37.1	-29.0	35.4	43.5
214.207250	11.4	125.0	H	72.0	37.0	-25.6	32.1	43.5
544.593000	17.6	100.0	V	284.0	35.9	-18.3	28.4	46.0
893.606750	17.8	100.0	H	34.0	30.5	-12.7	28.2	46.0

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

RE 1G-3GHz PK+AV



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

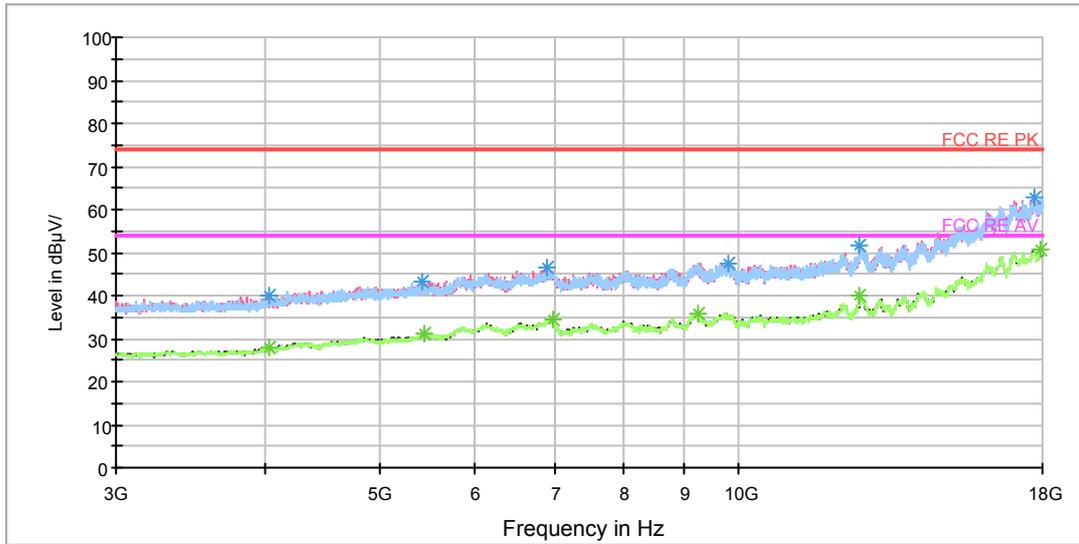
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.500000	45.3	105.0	V	29.0	53.5	-8.2	28.7	74
1304.750000	40.8	105.0	H	0.0	48.6	-7.8	33.2	74
1660.750000	42.4	105.0	V	46.0	47.6	-5.2	31.6	74
1999.500000	48.4	105.0	V	72.0	51.8	-3.4	25.6	74
2722.250000	47.8	105.0	V	12.0	47.5	0.3	26.2	74
2977.500000	49.4	105.0	V	63.0	47.2	2.2	24.6	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1193.750000	29.2	105.0	V	169.0	37.4	-8.2	24.8	54
1210.250000	29.4	105.0	V	160.0	37.5	-8.1	24.6	54
1652.750000	31.6	105.0	V	160.0	36.7	-5.1	22.4	54
1933.500000	32.6	105.0	V	90.0	36.3	-3.7	21.4	54
2615.500000	35.9	105.0	V	187.0	35.9	0.0	18.1	54
2935.750000	37.8	105.0	V	72.0	36.0	1.8	16.2	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

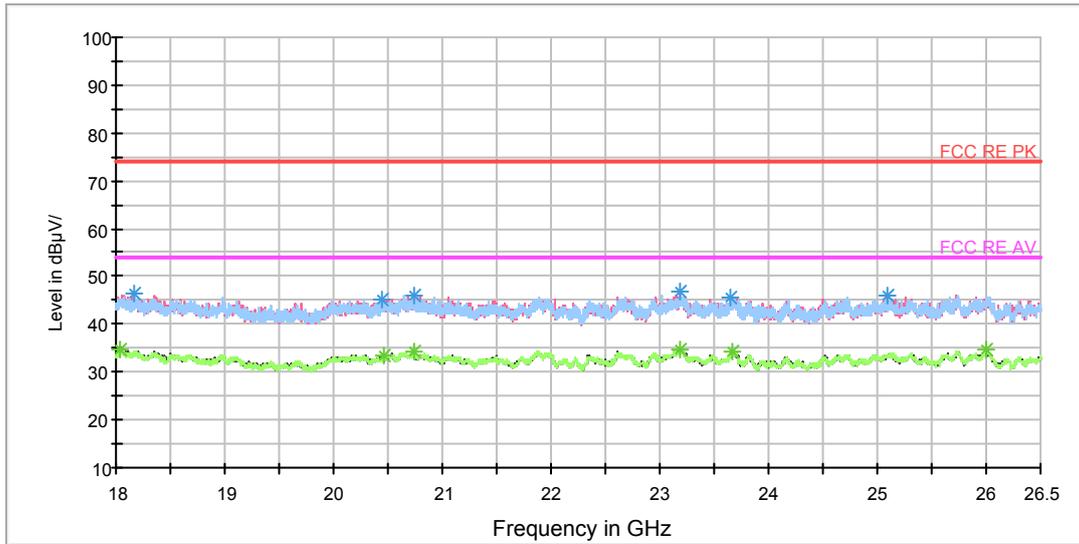
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4035.000000	39.9	100.0	H	8.0	40.9	-1.0	34.1	74
5430.000000	43.1	100.0	V	0.0	40.3	2.8	30.9	74
6911.250000	46.5	100.0	V	0.0	40.3	6.2	27.5	74
9804.375000	47.4	100.0	V	324.0	37.5	9.9	26.6	74
12645.000000	51.5	100.0	H	62.0	37.1	14.4	22.5	74
17724.375000	62.6	100.0	V	162.0	38.1	24.5	11.4	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)
4029.375000	27.7	100.0	V	0.0	28.8	-1.1	26.3	54
5433.750000	31.1	100.0	V	216.0	28.3	2.8	22.9	54
6991.875000	34.3	100.0	V	243.0	27.8	6.5	19.7	54
9236.250000	35.9	100.0	V	0.0	26.0	9.9	18.1	54
12639.375000	40.2	100.0	V	0.0	25.7	14.5	13.8	54
17919.375000	50.8	100.0	H	0.0	25.0	25.8	3.2	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)
18174.250000	46.4	V	241.0	48.9	-2.5	27.6	74
20450.125000	45.1	V	160.0	51.2	-6.1	28.9	74
20740.187500	46.2	V	300.0	53.0	-6.8	27.8	74
23190.312500	46.8	V	275.0	52.8	-6.0	27.2	74
23648.250000	45.7	V	300.0	51.6	-5.9	28.3	74
25099.625000	46.2	V	300.0	52.1	-5.9	27.8	74

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

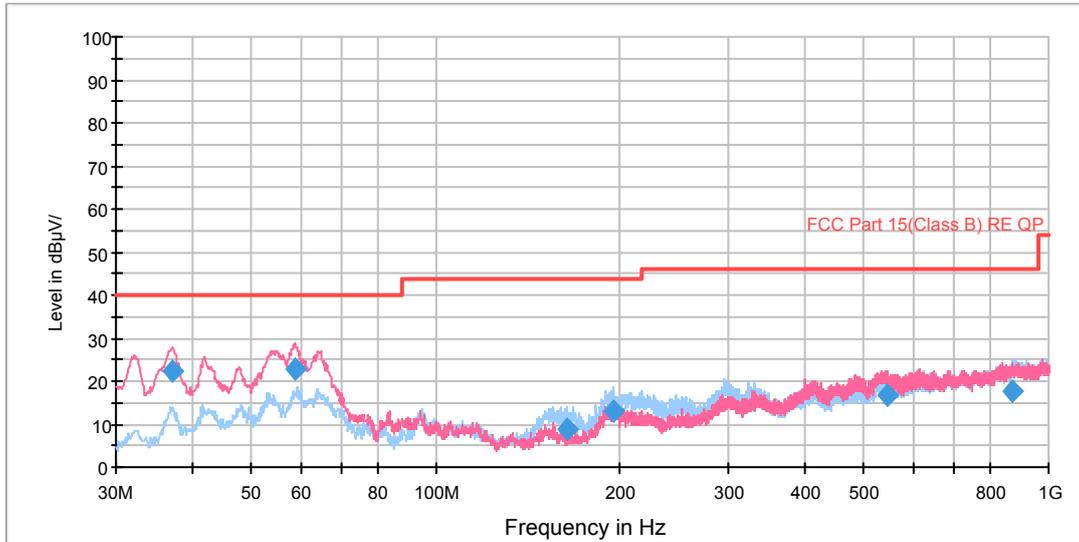
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18035.062500	34.7	V	300.0	36.6	-1.9	19.3	54
20469.250000	33.4	H	100.0	39.6	-6.2	20.6	54
20737.000000	34.1	V	160.0	40.9	-6.8	19.9	54
23185.000000	34.8	V	144.0	40.8	-6.0	19.2	54
23674.812500	34.1	H	100.0	40.0	-5.9	19.9	54
26009.125000	34.6	V	100.0	40.0	-5.4	19.4	54

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



BLE-Channel 19

RE 30M-1GHz QP

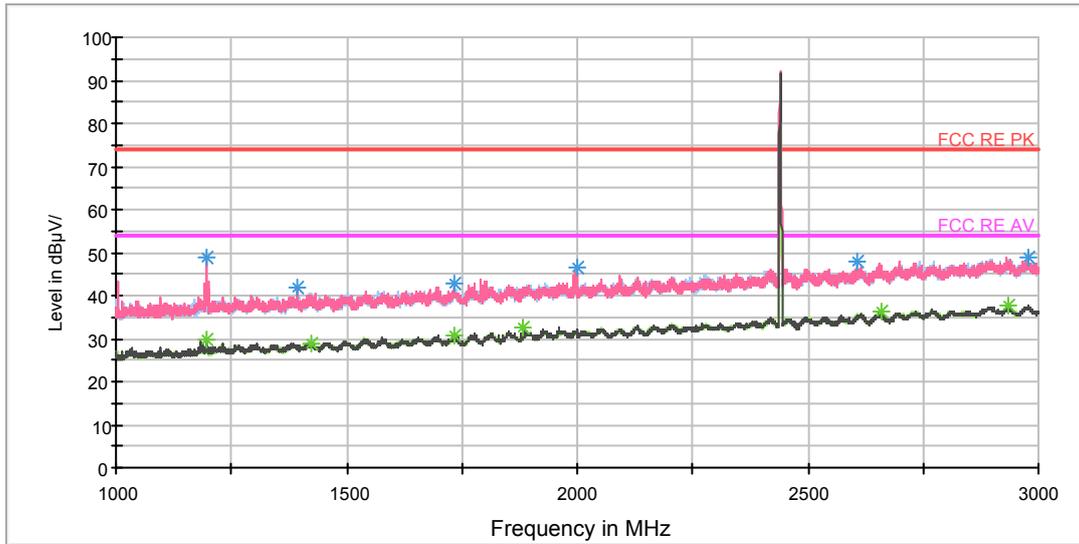


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.059919	22.5	100.0	V	0.0	44.6	-22.1	17.5	40.0
58.883091	22.6	100.0	V	232.0	45.5	-22.9	17.4	40.0
163.688456	8.8	100.0	H	284.0	37.2	-28.4	34.7	43.5
194.049910	12.8	125.0	H	266.0	39.4	-26.6	30.7	43.5
546.239750	16.7	100.0	V	290.0	35.0	-18.3	29.3	46.0
875.203750	17.8	100.0	H	0.0	30.7	-12.9	28.2	46.0

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

RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

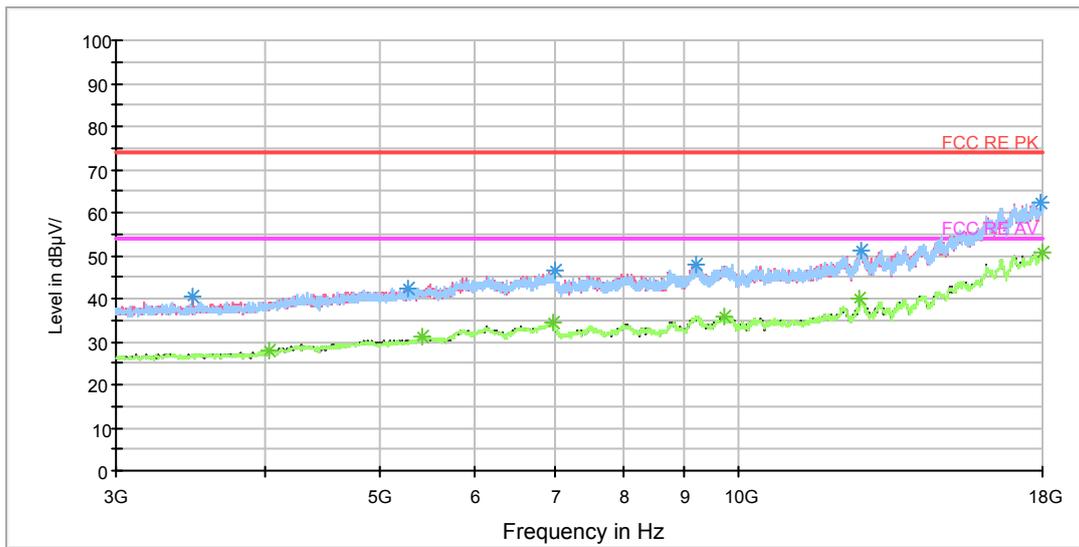
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.000000	48.7	105.0	V	154.0	56.9	-8.2	25.3	74
1394.250000	41.9	105.0	V	67.0	49.0	-7.1	32.1	74
1732.000000	42.6	105.0	H	0.0	47.4	-4.8	31.4	74
1999.000000	46.6	105.0	V	50.0	50.0	-3.4	27.4	74
2606.750000	47.7	105.0	H	0.0	47.5	0.2	26.3	74
2979.250000	48.7	105.0	H	81.0	46.5	2.2	25.3	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.000000	29.7	105.0	V	154.0	37.9	-8.2	24.3	54
1423.750000	29.0	105.0	H	308.0	35.9	-6.9	25.0	54
1732.000000	30.8	105.0	H	0.0	35.6	-4.8	23.2	54
1884.250000	32.6	105.0	V	93.0	37.0	-4.4	21.4	54
2658.500000	36.3	105.0	V	136.0	35.9	0.4	17.7	54
2934.250000	37.7	105.0	H	20.0	35.9	1.8	16.3	54

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

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

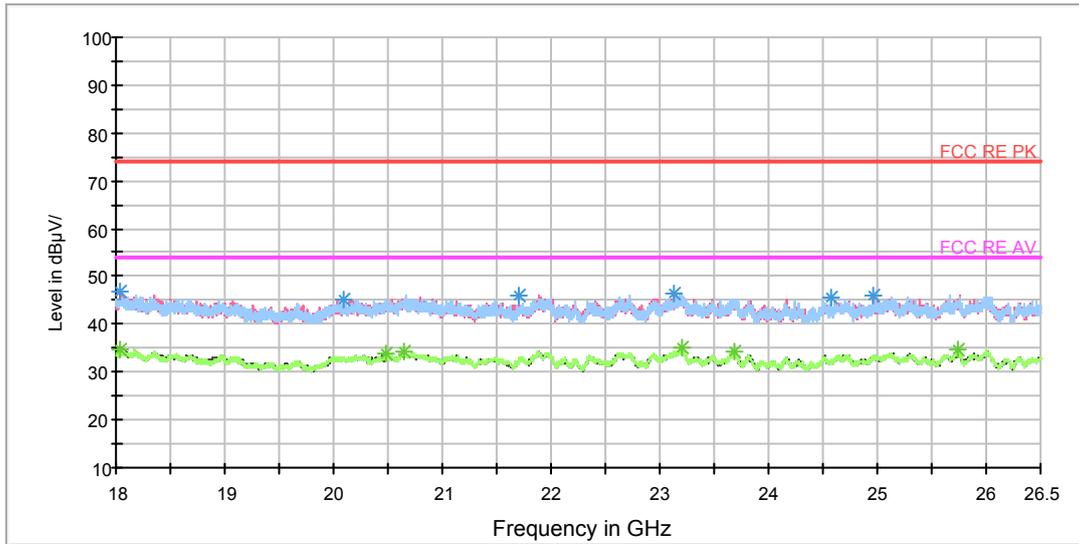
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3478.125000	40.3	100.0	V	0.0	42.3	-2.0	33.7	74
5270.625000	42.5	100.0	V	331.0	40.3	2.2	31.5	74
6999.375000	46.6	100.0	V	304.0	40.1	6.5	27.4	74
9215.625000	48.0	100.0	H	0.0	38.0	10.0	26.0	74
12654.375000	51.4	100.0	V	194.0	37.4	14.0	22.6	74
17917.500000	62.3	100.0	V	0.0	36.6	25.7	11.7	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)
4038.750000	27.8	100.0	V	304.0	28.8	-1.0	26.2	54
5430.000000	31.0	100.0	V	0.0	28.2	2.8	23.0	54
6995.625000	34.3	100.0	V	357.0	27.8	6.5	19.7	54
9740.625000	35.9	100.0	V	0.0	25.9	10.0	18.1	54
12637.500000	39.9	100.0	H	0.0	25.6	14.3	14.1	54
17996.250000	50.8	100.0	V	277.0	25.4	25.4	3.2	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)
18031.875000	46.9	V	285.0	48.8	-1.9	27.1	74
20085.687500	45.2	H	100.0	50.9	-5.7	28.8	74
21711.312500	45.9	V	175.0	53.9	-8.0	28.1	74
23136.125000	46.4	V	300.0	52.5	-6.1	27.6	74
24580.062500	45.6	H	100.0	51.6	-6.0	28.4	74
24960.437500	46.2	V	300.0	52.1	-5.9	27.8	74

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

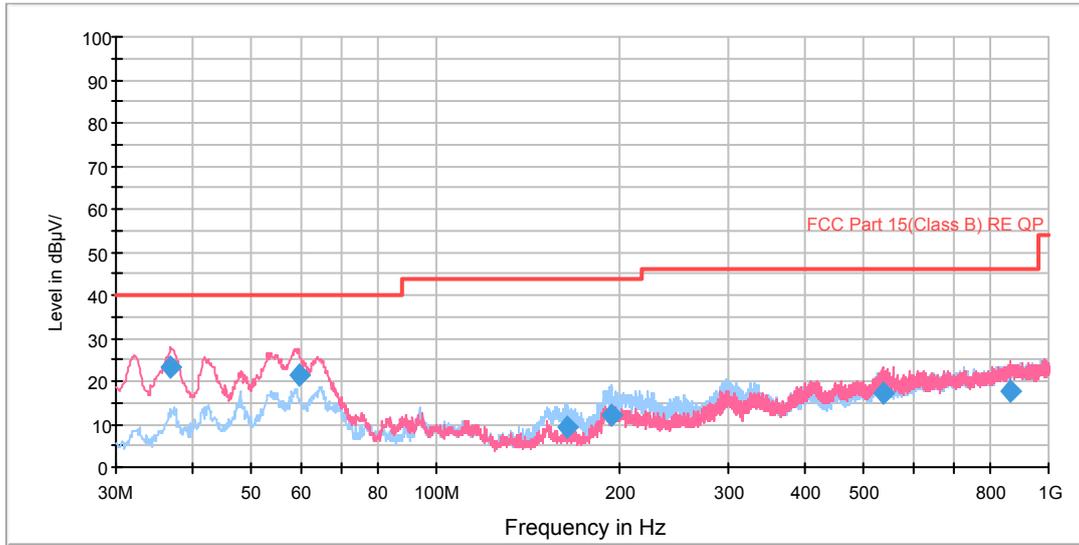
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18038.250000	34.8	H	113.0	36.8	-2.0	19.2	54
20472.437500	33.8	H	159.0	40.0	-6.2	20.2	54
20641.375000	34.1	V	300.0	40.6	-6.5	19.9	54
23196.687500	34.9	V	300.0	40.9	-6.0	19.1	54
23692.875000	34.1	H	100.0	40.0	-5.9	19.9	54
25736.062500	34.6	V	300.0	40.2	-5.6	19.4	54

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



BLE-Channel 39

RE 30M-1GHz QP

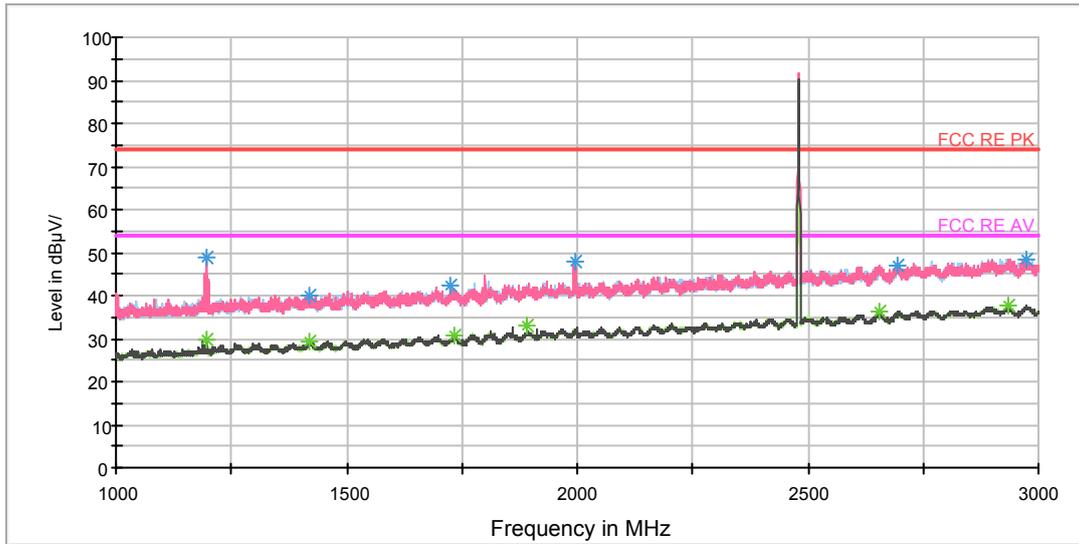


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
36.881975	23.3	100.0	V	267.0	45.4	-22.1	16.7	40.0
59.556038	21.6	100.0	V	200.0	44.7	-23.1	18.4	40.0
163.813190	9.3	125.0	H	281.0	37.7	-28.4	34.2	43.5
192.878547	12.2	125.0	H	269.0	39.0	-26.8	31.3	43.5
535.751500	17.3	100.0	V	289.0	35.6	-18.3	28.7	46.0
863.796750	17.8	125.0	V	206.0	30.7	-12.9	28.2	46.0

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

RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.250000	48.9	105.0	V	146.0	57.1	-8.2	25.1	74
1417.250000	40.2	105.0	H	0.0	47.1	-6.9	33.8	74
1724.000000	42.4	105.0	H	0.0	47.4	-5.0	31.6	74
1994.750000	47.9	105.0	V	49.0	51.1	-3.2	26.1	74
2696.250000	47.1	105.0	H	215.0	47.1	0.0	26.9	74
2973.250000	48.6	105.0	V	129.0	46.4	2.2	25.4	74

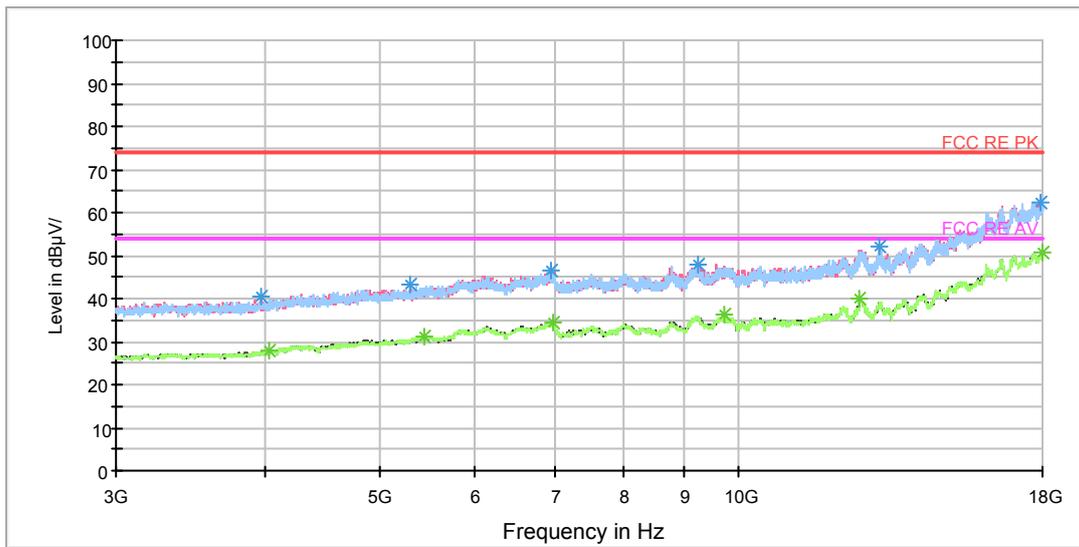
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.250000	29.6	105.0	V	146.0	37.8	-8.2	24.4	54
1418.250000	29.3	105.0	H	158.0	36.2	-6.9	24.7	54
1731.750000	30.7	105.0	H	275.0	35.5	-4.8	23.3	54
1892.750000	33.0	105.0	V	92.0	37.1	-4.1	21.0	54
2655.000000	36.3	105.0	H	356.0	35.9	0.4	17.7	54
2935.500000	37.6	105.0	V	0.0	35.8	1.8	16.4	54

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



RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

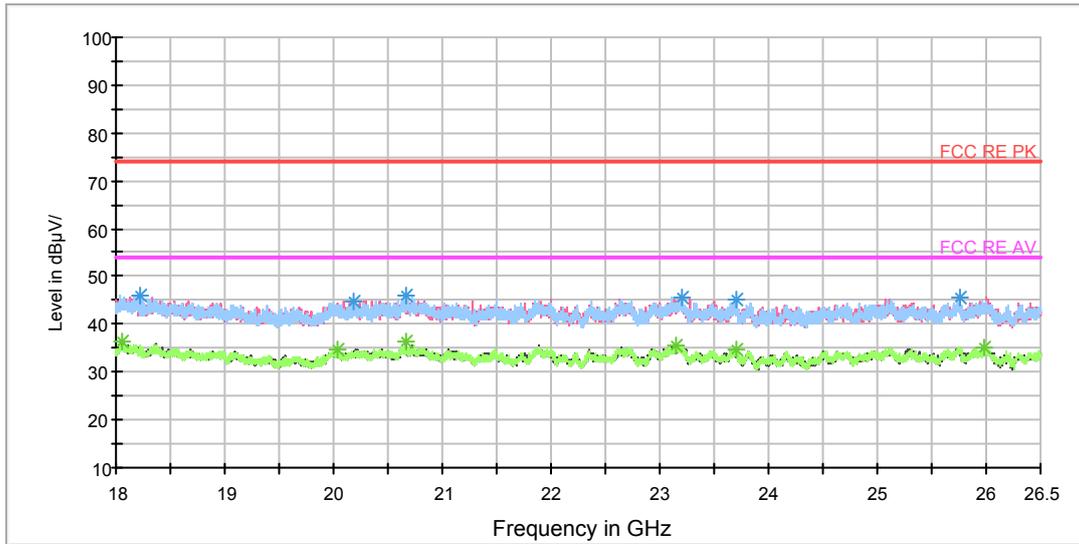
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3973.125000	40.3	100.0	V	218.0	41.2	-0.9	33.7	74
5308.125000	43.2	100.0	V	0.0	40.8	2.4	30.8	74
6969.375000	46.6	100.0	V	244.0	40.3	6.3	27.4	74
9232.500000	48.0	100.0	H	0.0	38.1	9.9	26.0	74
13141.875000	51.9	100.0	V	271.0	37.5	14.4	22.1	74
17917.500000	62.5	100.0	V	190.0	36.8	25.7	11.5	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4036.875000	27.8	100.0	V	271.0	28.8	-1.0	26.2	54
5445.000000	31.0	100.0	V	353.0	28.1	2.9	23.0	54
6995.625000	34.6	100.0	H	197.0	28.1	6.5	19.4	54
9738.750000	36.1	100.0	H	0.0	26.1	10.0	17.9	54
12637.500000	40.1	100.0	V	0.0	25.8	14.3	13.9	54
18000.000000	50.8	100.0	V	299.0	25.3	25.5	3.2	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)
18228.437500	46.2	H	100.0	49.0	-2.8	27.8	74
20182.375000	44.9	V	300.0	50.8	-5.9	29.1	74
20663.687500	45.9	H	100.0	52.5	-6.6	28.1	74
23194.562500	45.6	V	190.0	51.6	-6.0	28.4	74
23696.062500	45.0	H	185.0	50.9	-5.9	29.0	74
25759.437500	45.7	V	150.0	51.3	-5.6	28.3	74

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

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18048.875000	36.2	V	102.0	38.2	-2.0	17.8	54
20038.937500	34.9	H	123.0	40.6	-5.7	19.1	54
20663.687500	36.2	V	150.0	42.8	-6.6	17.8	54
23155.250000	35.7	V	300.0	41.8	-6.1	18.3	54
23702.437500	34.8	V	279.0	40.7	-5.9	19.2	54
25984.687500	35.2	H	100.0	40.6	-5.4	18.8	54

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

5.8. Conducted Emission

Ambient condition

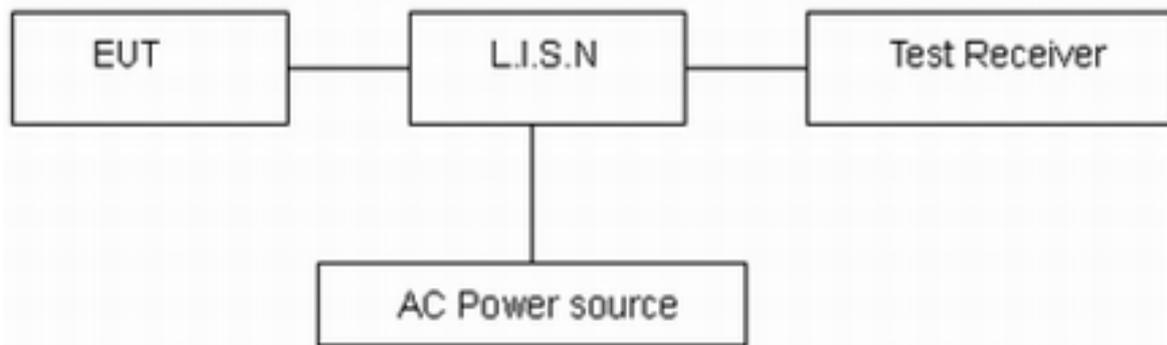
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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.

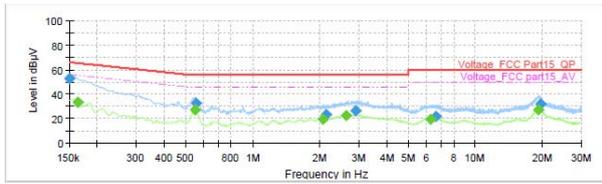


Test Results:

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

802.11b, Channel No.: 1

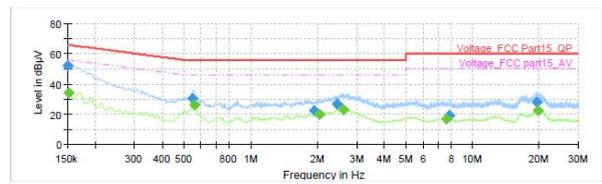
L Line



Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 14 rows of test data for the L Line.

N Line

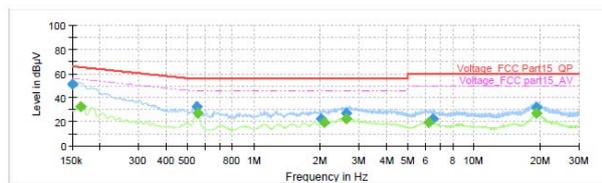


Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 14 rows of test data for the N Line.

802.11b, Channel No.: 6

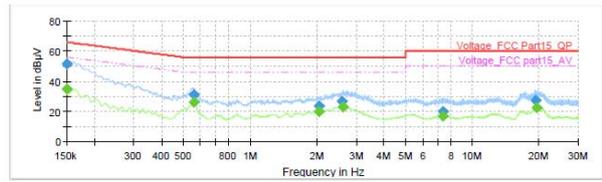
L Line



Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 14 rows of test data for the L Line.

N Line



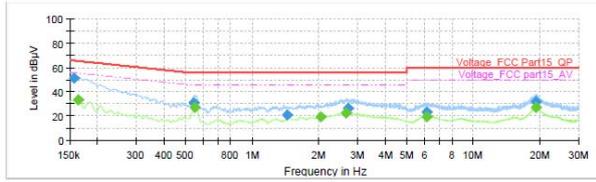
Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 14 rows of test data for the N Line.



802.11b, Channel No.: 11

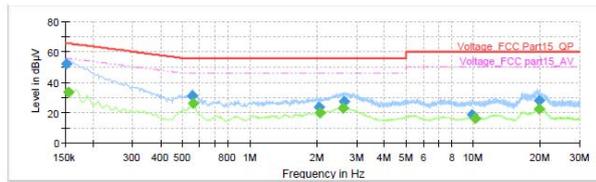
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.156750	50.99	---	65.63	14.64	1000.0	9.000	L1	ON	19.1
0.163500	---	33.23	55.28	22.05	1000.0	9.000	L1	ON	19.1
0.543750	31.19	---	56.00	24.81	1000.0	9.000	L1	ON	19.2
0.550500	---	27.14	46.00	18.86	1000.0	9.000	L1	ON	19.3
1.446000	20.84	---	56.00	35.16	1000.0	9.000	L1	ON	19.2
2.044500	---	19.70	46.00	26.30	1000.0	9.000	L1	ON	19.1
2.645250	---	22.55	46.00	23.45	1000.0	9.000	L1	ON	19.0
2.715000	26.41	---	56.00	29.59	1000.0	9.000	L1	ON	19.0
6.126000	---	19.53	50.00	30.47	1000.0	9.000	L1	ON	19.1
6.130500	23.09	---	60.00	36.91	1000.0	9.000	L1	ON	19.1
19.171500	31.99	---	60.00	28.01	1000.0	9.000	L1	ON	19.6
19.218750	---	27.01	50.00	22.99	1000.0	9.000	L1	ON	19.6

N Line

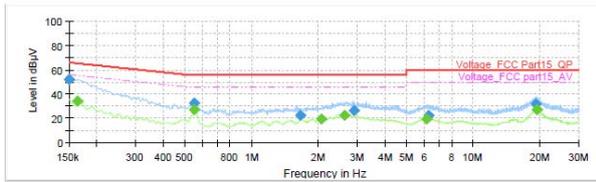


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.152250	51.94	---	65.88	13.94	1000.0	9.000	N	ON	19.1
0.154500	---	33.78	55.75	21.98	1000.0	9.000	N	ON	19.1
0.552750	31.13	---	56.00	24.87	1000.0	9.000	N	ON	19.3
0.557250	---	25.85	46.00	20.16	1000.0	9.000	N	ON	19.3
2.053500	23.52	---	56.00	32.48	1000.0	9.000	N	ON	19.1
2.062500	---	19.89	46.00	26.11	1000.0	9.000	N	ON	19.1
2.620500	---	22.97	46.00	23.03	1000.0	9.000	N	ON	19.0
2.649750	27.08	---	56.00	28.92	1000.0	9.000	N	ON	19.0
9.915000	18.54	---	60.00	41.46	1000.0	9.000	N	ON	19.4
10.176000	---	16.09	50.00	33.91	1000.0	9.000	N	ON	19.4
19.632750	---	22.56	50.00	27.44	1000.0	9.000	N	ON	19.5
19.650750	27.62	---	60.00	32.38	1000.0	9.000	N	ON	19.5

802.11g, Channel No.: 1

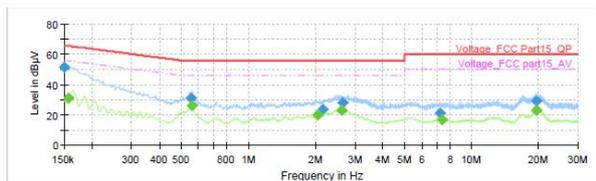
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	52.22	---	66.00	13.78	1000.0	9.000	L1	ON	19.1
0.163500	---	34.38	55.28	20.90	1000.0	9.000	L1	ON	19.1
0.552750	---	27.21	46.00	18.79	1000.0	9.000	L1	ON	19.3
0.557250	32.48	---	56.00	23.52	1000.0	9.000	L1	ON	19.3
1.666500	22.29	---	56.00	33.71	1000.0	9.000	L1	ON	19.2
2.067000	---	19.67	46.00	26.33	1000.0	9.000	L1	ON	19.1
2.638500	---	22.68	46.00	23.32	1000.0	9.000	L1	ON	19.0
2.888250	26.73	---	56.00	29.27	1000.0	9.000	L1	ON	19.1
6.184500	---	19.51	50.00	30.49	1000.0	9.000	L1	ON	19.1
6.283500	22.76	---	60.00	37.24	1000.0	9.000	L1	ON	19.1
19.194000	31.99	---	60.00	28.01	1000.0	9.000	L1	ON	19.6
19.279500	---	26.83	50.00	23.17	1000.0	9.000	L1	ON	19.6

N Line



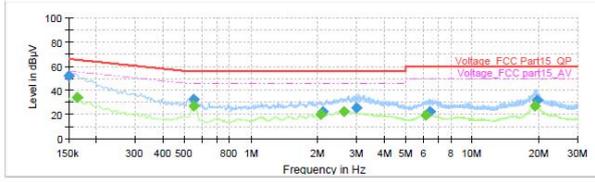
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	51.60	---	66.00	14.40	1000.0	9.000	N	ON	19.1
0.156750	---	31.29	55.63	24.34	1000.0	9.000	N	ON	19.1
0.552750	31.06	---	56.00	24.94	1000.0	9.000	N	ON	19.3
0.557250	---	25.93	46.00	20.07	1000.0	9.000	N	ON	19.3
2.044500	---	20.00	46.00	26.00	1000.0	9.000	N	ON	19.1
2.150250	23.34	---	56.00	32.66	1000.0	9.000	N	ON	19.1
2.604750	---	22.94	46.00	23.06	1000.0	9.000	N	ON	19.0
2.654250	27.66	---	56.00	28.34	1000.0	9.000	N	ON	19.0
7.217250	21.20	---	60.00	38.80	1000.0	9.000	N	ON	19.2
7.379250	---	16.89	50.00	33.11	1000.0	9.000	N	ON	19.2
19.475250	29.00	---	60.00	31.00	1000.0	9.000	N	ON	19.5
19.545000	---	22.76	50.00	27.24	1000.0	9.000	N	ON	19.5



802.11g, Channel No.: 6

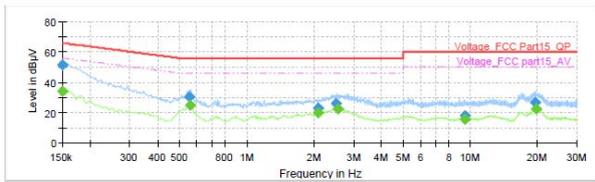
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	51.81	---	66.00	14.19	1000.0	9.000	L1	ON	19.1
0.163500	---	34.44	55.28	20.84	1000.0	9.000	L1	ON	19.1
0.548250	---	26.84	46.00	19.16	1000.0	9.000	L1	ON	19.3
0.552750	32.31	---	56.00	23.69	1000.0	9.000	L1	ON	19.3
2.062500	---	19.78	46.00	26.22	1000.0	9.000	L1	ON	19.1
2.112000	22.82	---	56.00	33.18	1000.0	9.000	L1	ON	19.1
2.622750	---	22.64	46.00	23.36	1000.0	9.000	L1	ON	19.3
2.994000	25.71	---	56.00	30.29	1000.0	9.000	L1	ON	19.1
6.121500	---	19.62	50.00	30.38	1000.0	9.000	L1	ON	19.1
6.438750	22.46	---	60.00	37.54	1000.0	9.000	L1	ON	19.1
19.162500	---	26.87	50.00	23.13	1000.0	9.000	L1	ON	19.6
19.509000	31.55	---	60.00	28.45	1000.0	9.000	L1	ON	19.6

N Line

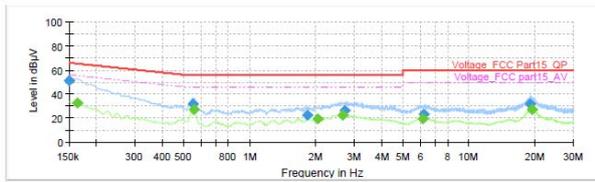


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	---	34.25	56.00	21.75	1000.0	9.000	N	ON	19.1
0.150000	51.31	---	66.00	14.69	1000.0	9.000	N	ON	19.1
0.555000	30.52	---	56.00	25.48	1000.0	9.000	N	ON	19.3
0.559500	---	25.10	46.00	20.90	1000.0	9.000	N	ON	19.3
2.087250	---	19.80	46.00	26.20	1000.0	9.000	N	ON	19.1
2.094000	22.99	---	56.00	33.01	1000.0	9.000	N	ON	19.1
2.499000	26.03	---	56.00	29.97	1000.0	9.000	N	ON	19.0
2.568500	---	22.16	46.00	23.84	1000.0	9.000	N	ON	19.0
9.422250	18.26	---	60.00	41.74	1000.0	9.000	N	ON	19.3
9.483000	---	15.81	50.00	34.19	1000.0	9.000	N	ON	19.3
19.473000	26.93	---	60.00	33.07	1000.0	9.000	N	ON	19.5
19.639500	---	22.47	50.00	27.53	1000.0	9.000	N	ON	19.5

802.11g, Channel No.: 11

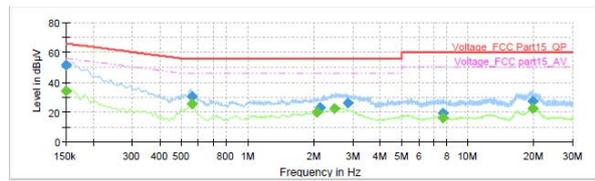
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	51.30	---	66.00	14.70	1000.0	9.000	L1	ON	19.1
0.163500	---	32.88	55.28	22.41	1000.0	9.000	L1	ON	19.1
0.548250	31.92	---	56.00	24.08	1000.0	9.000	L1	ON	19.3
0.555000	---	27.26	46.00	18.74	1000.0	9.000	L1	ON	19.3
1.821750	22.94	---	56.00	33.06	1000.0	9.000	L1	ON	19.2
2.046750	---	19.62	46.00	26.38	1000.0	9.000	L1	ON	19.1
2.640750	---	22.81	46.00	23.19	1000.0	9.000	L1	ON	19.0
2.706000	26.66	---	56.00	29.34	1000.0	9.000	L1	ON	19.0
6.175500	---	19.41	50.00	30.59	1000.0	9.000	L1	ON	19.1
6.249750	23.55	---	60.00	36.45	1000.0	9.000	L1	ON	19.1
19.047750	31.87	---	60.00	28.13	1000.0	9.000	L1	ON	19.6
19.288500	---	26.96	50.00	23.04	1000.0	9.000	L1	ON	19.6

N Line



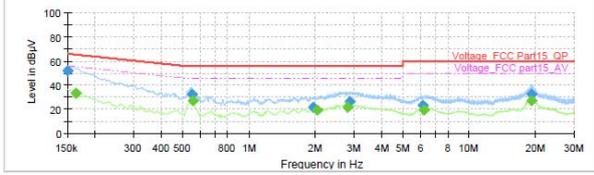
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	---	34.41	56.00	21.59	1000.0	9.000	N	ON	19.1
0.150000	51.75	---	66.00	14.25	1000.0	9.000	N	ON	19.1
0.557250	---	25.51	46.00	20.49	1000.0	9.000	N	ON	19.3
0.561750	30.41	---	56.00	25.59	1000.0	9.000	N	ON	19.3
2.089250	---	19.92	46.00	26.08	1000.0	9.000	N	ON	19.1
2.130000	23.03	---	56.00	32.97	1000.0	9.000	N	ON	19.1
2.485500	---	22.39	46.00	23.61	1000.0	9.000	N	ON	19.0
2.841000	25.86	---	56.00	30.14	1000.0	9.000	N	ON	19.0
7.680750	19.00	---	60.00	41.00	1000.0	9.000	N	ON	19.2
7.705500	---	16.38	50.00	33.62	1000.0	9.000	N	ON	19.2
19.716000	27.60	---	60.00	32.40	1000.0	9.000	N	ON	19.5
19.765500	---	22.46	50.00	27.54	1000.0	9.000	N	ON	19.5



802.11n(HT20), Channel No.: 1

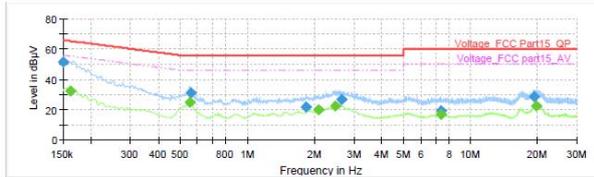
L Line



Final Result

Table with 11 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data.

N Line

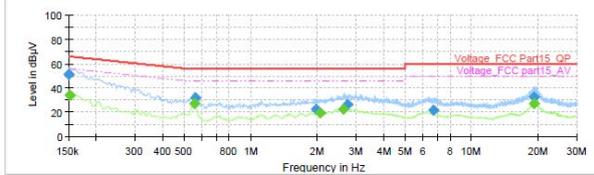


Final Result

Table with 11 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data.

802.11n(HT20), Channel No.: 6

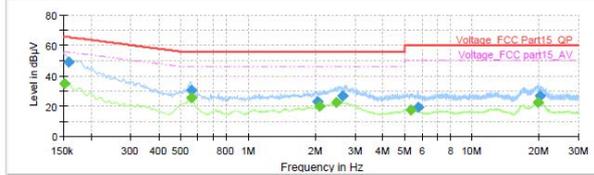
L Line



Final Result

Table with 11 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data.

N Line



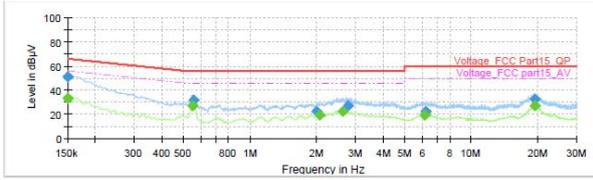
Final Result

Table with 11 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 15 rows of test data.



802.11n(HT20), Channel No.: 11

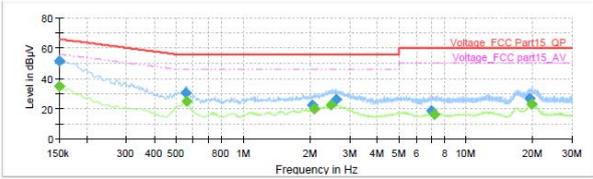
L Line



Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 18 rows of test data.

N Line

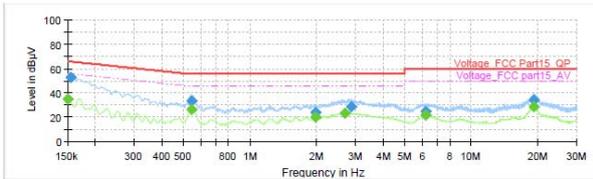


Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 18 rows of test data.

BLE, Channel No.: 0

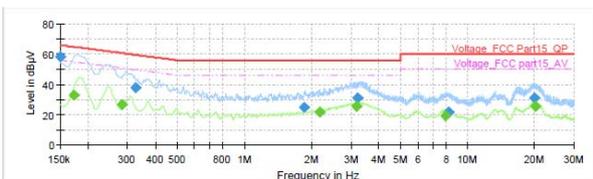
L Line



Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 18 rows of test data.

N Line



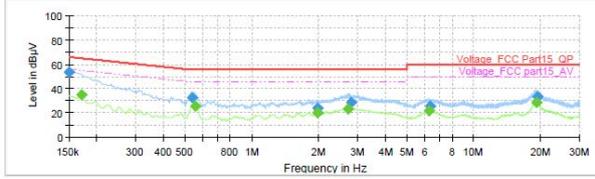
Final Result

Table with 10 columns: Frequency (MHz), QuasiPeak (dBµV), Average (dBµV), Limit (dBµV), Margin (dB), Meas. Time (ms), Bandwidth (kHz), Line, Filter, Corr. (dB). Contains 18 rows of test data.



BLE, Channel No.: 19

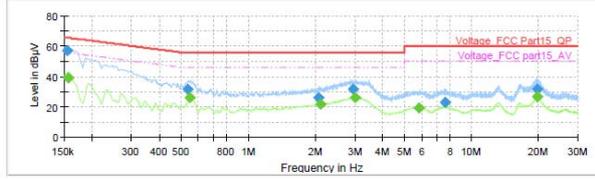
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	53.12	---	66.00	12.88	1000.0	9.000	L1	ON	19.1
0.170250	---	34.59	54.95	20.36	1000.0	9.000	L1	ON	19.1
0.539250	32.83	---	56.00	23.17	1000.0	9.000	L1	ON	19.2
0.557250	---	25.81	46.00	20.19	1000.0	9.000	L1	ON	19.3
1.972500	---	20.22	46.00	25.78	1000.0	9.000	L1	ON	19.1
1.981500	24.18	---	56.00	31.82	1000.0	9.000	L1	ON	19.1
2.717250	---	23.29	46.00	22.71	1000.0	9.000	L1	ON	19.0
2.793750	28.34	---	56.00	27.66	1000.0	9.000	L1	ON	19.0
6.299250	---	21.39	50.00	28.61	1000.0	9.000	L1	ON	19.1
6.330750	25.20	---	60.00	34.80	1000.0	9.000	L1	ON	19.1
19.115250	---	28.97	50.00	21.03	1000.0	9.000	L1	ON	19.6
19.421250	33.72	---	60.00	26.28	1000.0	9.000	L1	ON	19.6

N Line

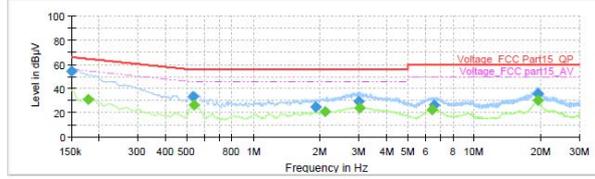


Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	57.02	---	65.75	8.73	1000.0	9.000	N	ON	19.1
0.156750	---	39.05	55.63	16.58	1000.0	9.000	N	ON	19.1
0.534750	31.74	---	56.00	24.26	1000.0	9.000	N	ON	19.2
0.546000	---	25.94	46.00	20.06	1000.0	9.000	N	ON	19.2
2.076000	25.95	---	56.00	30.05	1000.0	9.000	N	ON	19.1
2.100750	---	21.53	46.00	24.47	1000.0	9.000	N	ON	19.1
2.946750	31.36	---	56.00	24.64	1000.0	9.000	N	ON	19.1
3.023250	---	25.76	46.00	20.24	1000.0	9.000	N	ON	19.1
5.840250	---	19.35	50.00	30.65	1000.0	9.000	N	ON	19.1
7.597500	23.26	---	60.00	36.74	1000.0	9.000	N	ON	19.2
19.668750	---	26.90	50.00	23.10	1000.0	9.000	N	ON	19.5
19.754250	31.79	---	60.00	28.21	1000.0	9.000	N	ON	19.5

BLE, Channel No.: 39

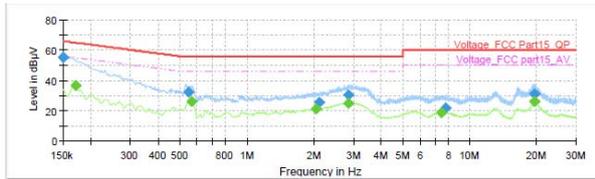
L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	54.24	---	66.00	11.76	1000.0	9.000	L1	ON	19.1
0.179250	---	31.08	54.52	23.44	1000.0	9.000	L1	ON	19.2
0.534750	33.15	---	56.00	22.85	1000.0	9.000	L1	ON	19.2
0.537000	---	26.25	46.00	19.75	1000.0	9.000	L1	ON	19.2
1.916250	24.73	---	56.00	31.27	1000.0	9.000	L1	ON	19.2
2.114250	---	20.73	46.00	25.27	1000.0	9.000	L1	ON	19.1
2.982750	29.40	---	56.00	26.60	1000.0	9.000	L1	ON	19.1
3.014250	---	24.02	46.00	21.98	1000.0	9.000	L1	ON	19.1
8.409000	---	22.37	50.00	27.63	1000.0	9.000	L1	ON	19.1
6.803000	26.22	---	60.00	33.78	1000.0	9.000	L1	ON	19.1
19.302000	---	30.15	50.00	19.85	1000.0	9.000	L1	ON	19.6
19.304250	35.32	---	60.00	24.68	1000.0	9.000	L1	ON	19.6

N Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	54.89	---	66.00	11.11	1000.0	9.000	N	ON	19.1
0.170250	---	36.35	54.95	18.60	1000.0	9.000	N	ON	19.2
0.546000	32.39	---	56.00	23.61	1000.0	9.000	N	ON	19.2
0.566250	---	26.21	46.00	19.79	1000.0	9.000	N	ON	19.3
2.053500	---	21.35	46.00	24.65	1000.0	9.000	N	ON	19.1
2.105250	25.52	---	56.00	30.48	1000.0	9.000	N	ON	19.1
2.841000	---	24.91	46.00	21.09	1000.0	9.000	N	ON	19.0
2.852250	30.31	---	56.00	25.69	1000.0	9.000	N	ON	19.0
7.422000	---	18.67	50.00	31.33	1000.0	9.000	N	ON	19.2
7.602250	21.77	---	60.00	38.23	1000.0	9.000	N	ON	19.2
19.383250	30.84	---	60.00	29.16	1000.0	9.000	N	ON	19.5
19.587750	---	25.78	50.00	24.22	1000.0	9.000	N	ON	19.5



6. Main Test Instruments

Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	FSV30	R&S	100815	2016-12-16	2017-12-15
EMI Test Receiver	ESCI	R&S	100948	2016-06-01	2017-05-31
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
Loop Antenna	FMZB1519	SCHWARZBECK	1519-047	2017-02-18	2020-02-17
Standard Gain Horn	3160-09	ETS-Lindgren	00102644	2015-01-30	2018-01-29
EMI Test Receiver	ESCS30	R&S	100138	2016-12-16	2017-12-15
LISN	ENV216	R&S	101171	2016-12-17	2019-12-16
Spectrum Analyzer	N9010A	Agilent	MY47191109	2016-05-21	2017-05-20
MOB COMMS DC SUPPLY	66319D	Agilent	MY43004105	2016-05-21	2017-05-20
Power Meter	U2021XA	Keysight	MY55240003	2016-06-26	2017-06-25
RF Cable	SMA 15cm	Agilent	0001	2017-01-04	2017-04-03

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

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Picture 1-1: EUT



Picture 1-2: Adapter



Picture 1-3: USB cable

Picture 1 EUT and Accessory

A.2 Test Setup



Below 1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup



Picture 3 Conducted Emission Test Setup