



RF TEST REPORT

Applicant ZTE Corporation

FCC ID SRQ-Z-01K

Product LTE/WCDMA/GSM Multi-Mode
Digital Mobile Phone

Model Z-01K

Report No. RXC1708-0286RF10

Issue Date October 27, 2017

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2017)**. 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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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: August 22, 2017 ~ September 18, 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 (Designation number: CN1179, Test Firm Registration Number: 446626)

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

IC (recognition number is 8510A)

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

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

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

A2LA (Certificate Number: 3857.01)

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



1.3. Testing Location

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

2. General Description of Equipment under Test

Client Information

Applicant	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:	Z-01K
IMEI:	865318030013228
Hardware Version:	udnA
Software Version:	P996A20_DCMV1.0.0B20
Power Supply:	Battery/AC adapter
Antenna Type:	Internal Antenna
Antenna Connector:	A permanently attached antenna
Antenna Gain:	Antenna: -5.00 dBi
additional beamforming gain:	0 dB
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 :18.12dBm BLE : -2.797 dBm
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2472 MHz BLE: 2402 ~2480 MHz
EUT Accessory	
Battery	Manufacturer: SCUD (Fujian) Electronics Co., Ltd Model: Li3929T44P8h686049 Power Rating: DC 3.85V, Li-ion
Note: The information of the EUT is declared by the manufacturer.	



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 (2017) Radio Frequency Devices**
- **ANSI C63.10 (2013)**
- **KDB 558074 D01 DTS Meas Guidance v04**
-

4. Test Configuration

Test Mode

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

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

Band	T _{on} (ms)	T _(on+off) (ms)	Duty cycle	Duty cycle correction Factor(dB)
802.11b	8.372	8.4	0.997	Not required
802.11g	1.392	1.436	0.969	0.135
802.11n HT20	1.3	1.33	0.977	0.099
BLE	0.376	0.623	0.604	2.193
Note: when Duty cycle>0.98, Duty cycle correction Factor not required.				

5. Test Case Results

5.1. Average Power Output –Conducted

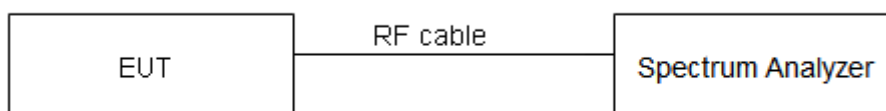
Ambient condition

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

Power Index					
Packet Type	CH1	CH6	CH11	CH12	CH13
802.11b	16	16	16	16	16
802.11g	15	15	15	15	15
802.11n HT20	14	14	14	14	14

Network Standards	Carrier frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Conclusion
802.11b	2412	17.81	30	PASS
	2437	17.39	30	PASS
	2462	18.12	30	PASS
	2467	18.12	30	PASS
	2472	17.95	30	PASS
802.11g	2412	14.36	30	PASS
	2437	14.14	30	PASS
	2462	14.41	30	PASS
	2467	14.94	30	PASS
	2472	14.82	30	PASS
802.11n HT20	2412	13.24	30	PASS
	2437	13.02	30	PASS
	2462	13.44	30	PASS
	2467	13.80	30	PASS
	2472	13.35	30	PASS
Bluetooth (Low Energy)	2402	-3.027	30	PASS
	2440	-3.247	30	PASS
	2480	-2.797	30	PASS
Note:Output Power=Read Value+Duty cycle correction factor				

802.11b, Carrier frequency (MHz): 2412



802.11g, Carrier frequency (MHz): 2412



802.11b, Carrier frequency (MHz): 2437



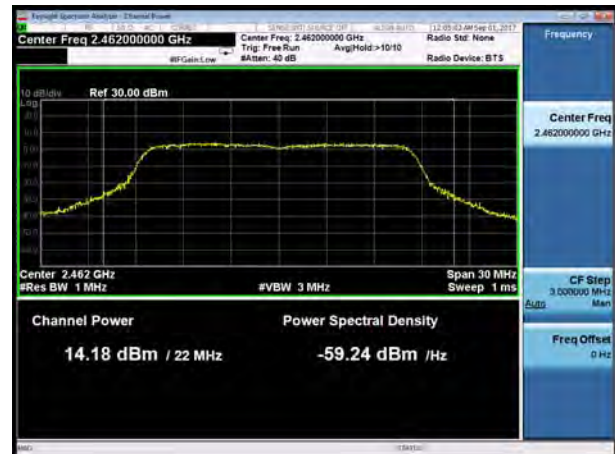
802.11g, Carrier frequency (MHz): 2437



802.11b, Carrier frequency (MHz): 2462



802.11g, Carrier frequency (MHz): 2462



802.11b, Channel No.: 12



802.11g, Channel No.: 12



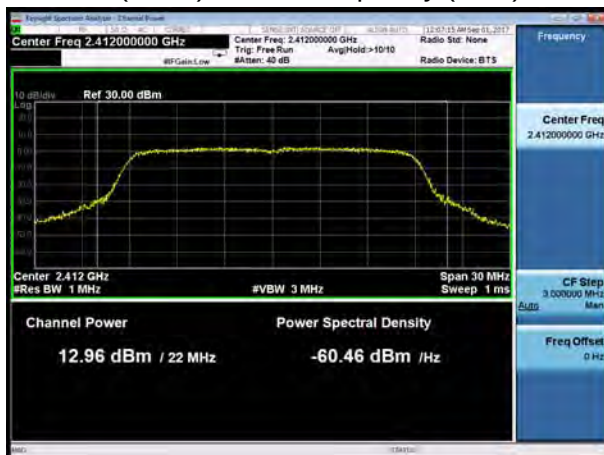
802.11b, Channel No.: 13



802.11g, Channel No.: 13



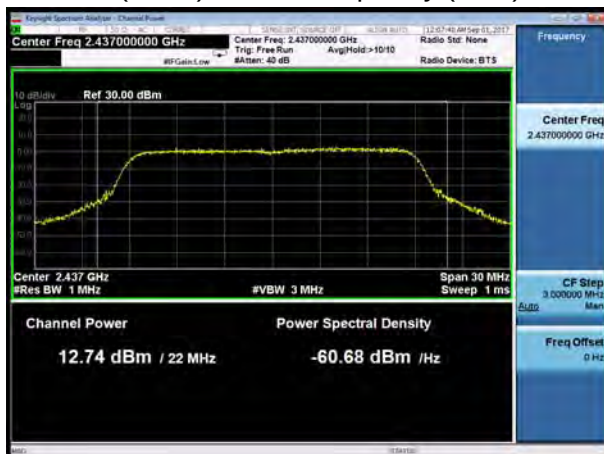
802.11n(HT20), Carrier frequency (MHz): 2412



BLE Carrier frequency (MHz): 2402



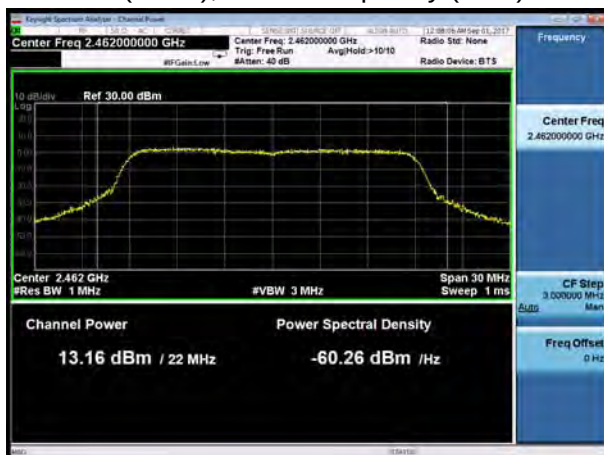
802.11n(HT20), Carrier frequency (MHz): 2437



BLE Carrier frequency (MHz): 2440



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



BLE Carrier frequency (MHz): 2480



802.11n(HT20), Channel No. 12



802.11n(HT20), Channel No. 13



5.2. 6dB Bandwidth

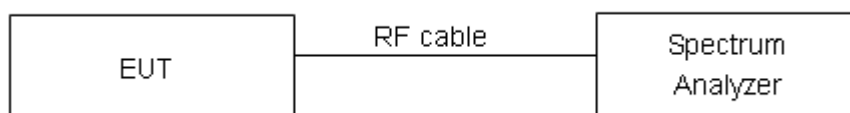
Ambient condition

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)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412	12.848	8.075	500	PASS
	2437	13.195	8.090	500	PASS
	2462	13.254	8.093	500	PASS
	2467	13.027	8.328	500	PASS
	2472	12.738	7.648	500	PASS
802.11g	2412	16.307	15.810	500	PASS
	2437	16.369	15.950	500	PASS
	2462	16.381	16.070	500	PASS
	2467	16.471	16.520	500	PASS
	2472	16.445	16.500	500	PASS
802.11n HT20	2412	17.495	16.820	500	PASS
	2437	17.570	16.660	500	PASS
	2462	17.574	17.150	500	PASS
	2467	17.686	17.750	500	PASS
	2472	17.650	17.700	500	PASS
Bluetooth (Low Energy)	2402	1.0873	0.6654	500	PASS
	2440	1.0877	0.6630	500	PASS
	2480	1.0879	0.6627	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



802.11b, Channel No.: 2467



802.11g, Channel No.: 2467



802.11b, Channel No.: 2472



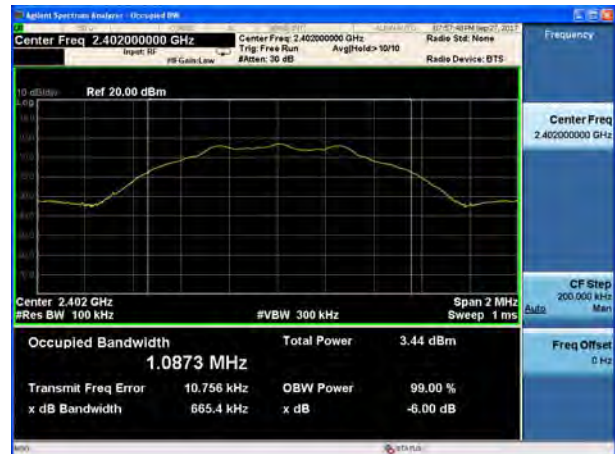
802.11g, Channel No.: 2472



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





Report No: RXC1708-0286RF10

Center Freq 2.467000000 GHz
 #Res BW 100 kHz
 #VBW 300 kHz
 Sweep 2.933 ms

Occupied Bandwidth
17.686 MHz

Total Power
20.7 dBm

Transmit Freq Error
 -9.967 kHz

% of OBW Power
 99.00 %

x dB Bandwidth
 17.75 MHz

x dB
 -6.00 dB

Frequency
Center Freq
 2.467000000 GHz

CF Step
 3.000000 MHz

Freq Offset
 0 MHz

Keysight Spectrum Analyzer - Occupied BW

Center Freq: 2.47200000 GHz

Center Freq: 2.47200000 GHz

Trig: FreeRun

RF Gain Low

RF Attenu: 40 dB

Radio Device: BTS

Frequency: 2.47200000 GHz

CF Step: 3.000000 MHz

Ref 20.00 dBm

10 dBm

0 dBm

20 dBm

40 dBm

60 dBm

80 dBm

100 dBm

Center 2.472 GHz

Res BW 100 kHz

#VBW 300 kHz

Sweep 30 MHz

Sweep 2.933 ms

Occupied Bandwidth	Total Power	20.1 dBm
17.650 MHz		
Transmit Freq Error	-9.728 kHz	% of OBW Power
x dB Bandwidth	17.70 MHz	x dB
		99.00 %
		-6.00 dB

Frequency: 2.47200000 GHz

CF Step: 3.000000 MHz

Auto

Ref Offset: 0.1 Hz

5.3. Band Edge

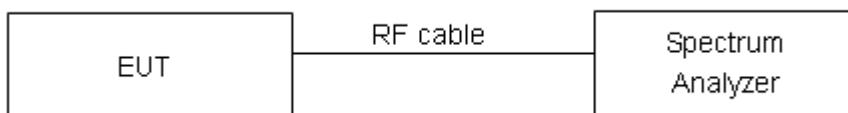
Ambient condition

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

Method of Measurement

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

Test Setup



Limits

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

Measurement Uncertainty

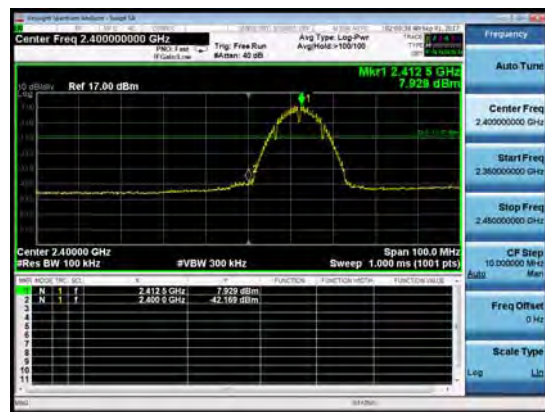
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB

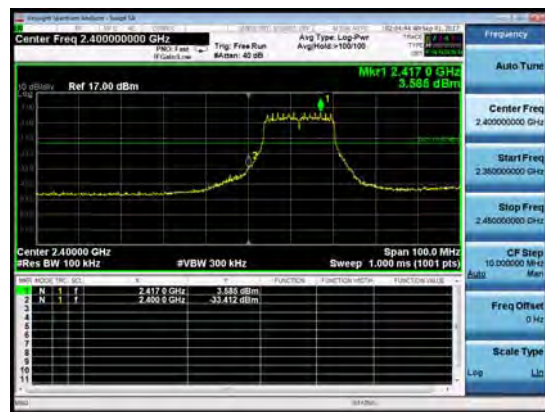


Test Results: PASS

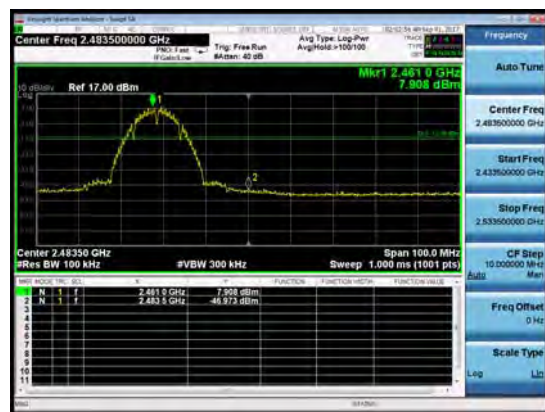
802.11b, Channel No.: 1



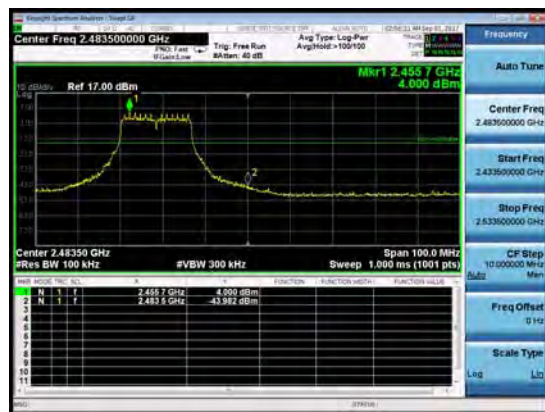
802.11g, Channel No.: 1



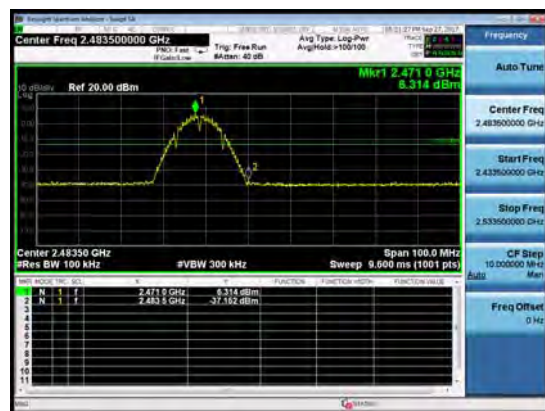
802.11b, Channel No.: 11



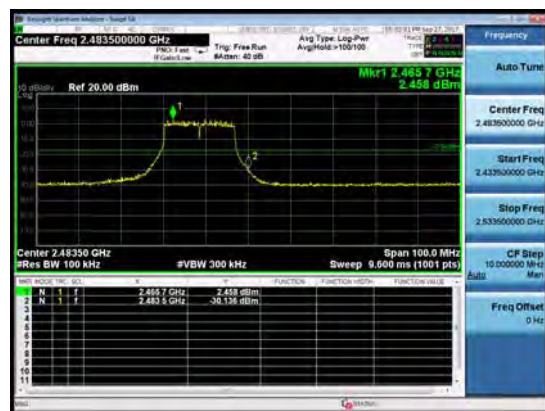
802.11g, Channel No.: 11



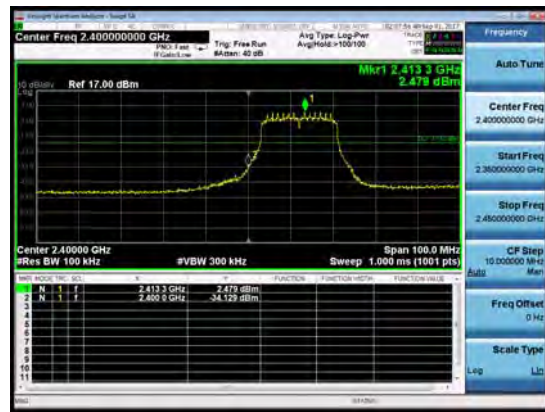
802.11b, Channel No.: 13



802.11g, Channel No.: 13



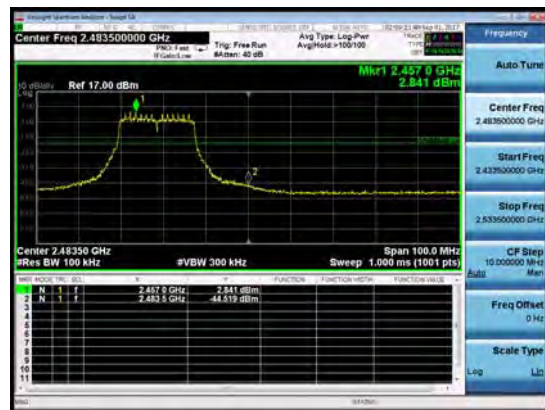
802.11n(HT20), Channel No.: 1



BLE, Channel No.: 0



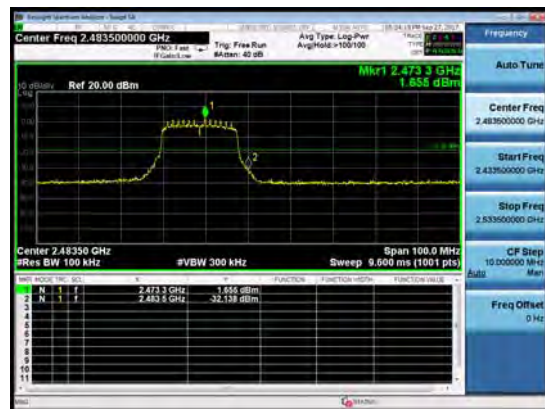
802.11n(HT20), Channel No.: 11



BLE, Channel No.: 39



802.11n(HT20), Channel No.: 13



5.4. Power Spectral Density

Ambient condition

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

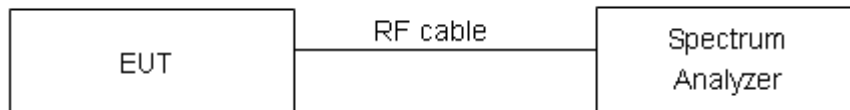
Method of Measurement

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	$\leq 8 \text{ dBm} / 3\text{kHz}$
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Measurement Uncertainty

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

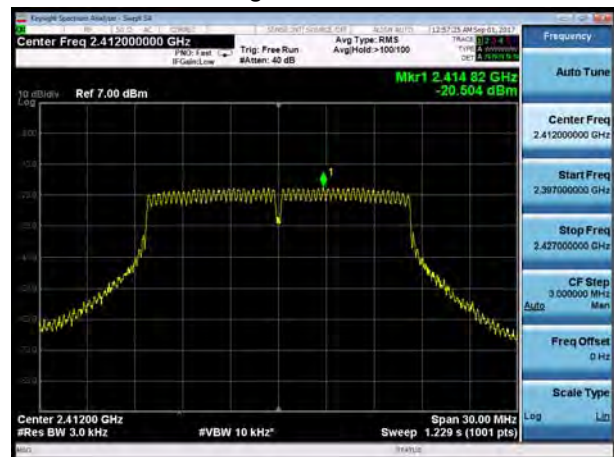
Test Results:

Network Standards	Channel Number	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-16.665	8	PASS
	6	-15.451	8	PASS
	11	-16.284	8	PASS
	12	-16.093	8	PASS
	13	-16.190	8	PASS
802.11g	1	-20.275	8	PASS
	6	-20.263	8	PASS
	11	-20.209	8	PASS
	12	-21.915	8	PASS
	13	-22.081	8	PASS
802.11n HT20	1	-21.572	8	PASS
	6	-21.410	8	PASS
	11	-21.614	8	PASS
	12	-23.031	8	PASS
	13	-22.359	8	PASS
Bluetooth (Low Energy)	0	-20.045	8	PASS
	19	-19.994	8	PASS
	39	-19.912	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor				

802.11b, Channel No.: 1



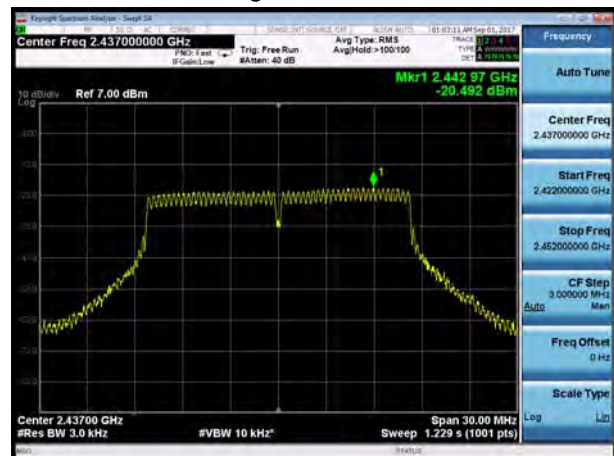
802.11g, Channel No.: 1



802.11b, Channel No.: 6



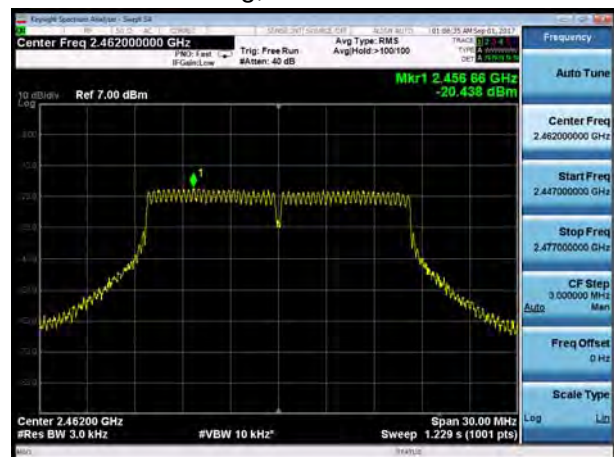
802.11g, Channel No.: 6



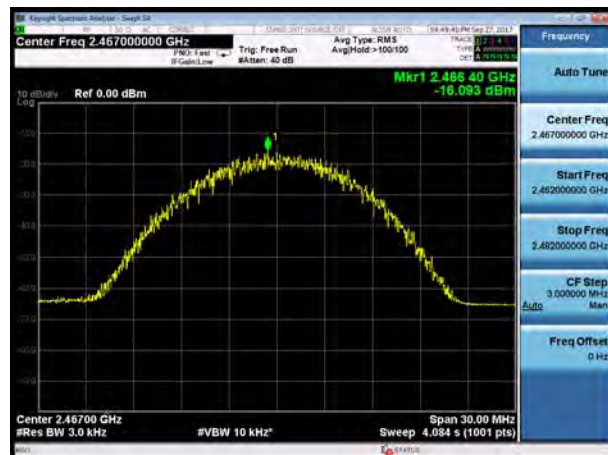
802.11b, Channel No.: 11



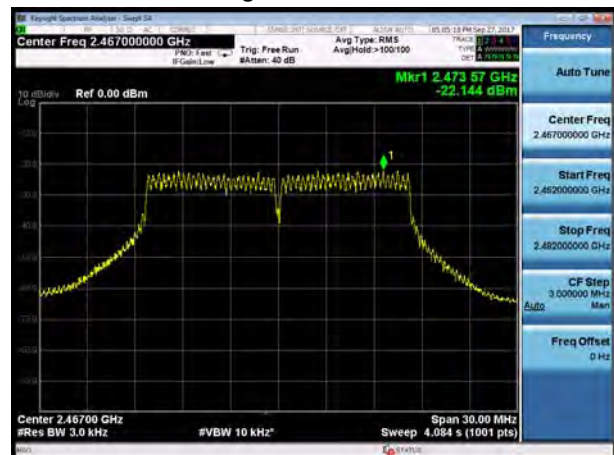
802.11g, Channel No.: 11



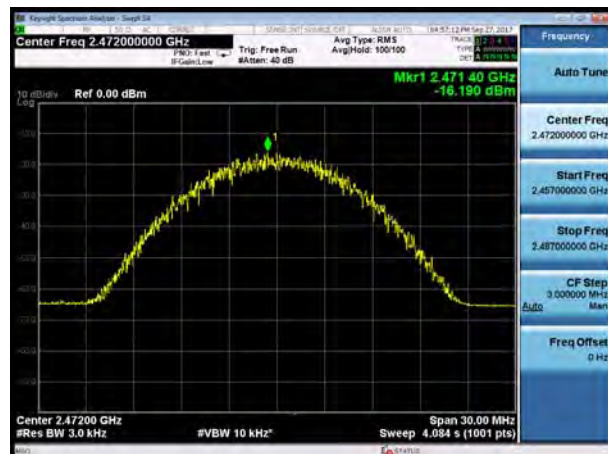
802.11b, Channel No.: 12



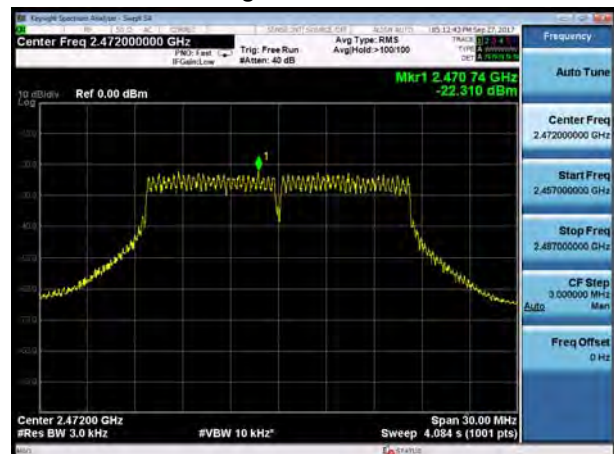
802.11g, Channel No.: 12



802.11b, Channel No.: 13



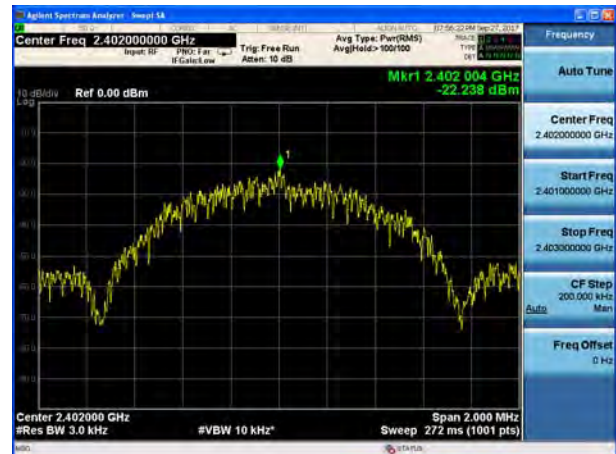
802.11g, Channel No.: 13



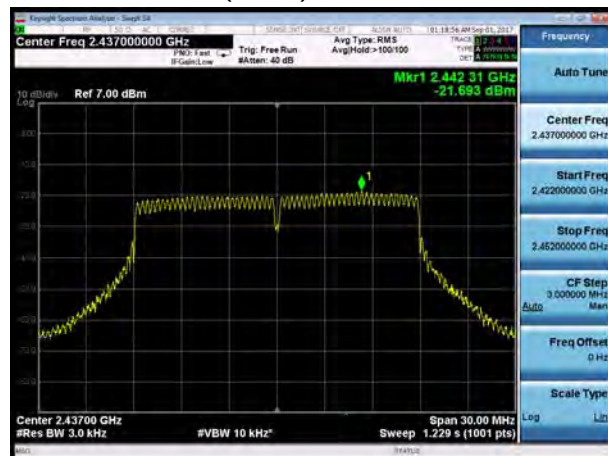
802.11n(HT20), Channel No. 1



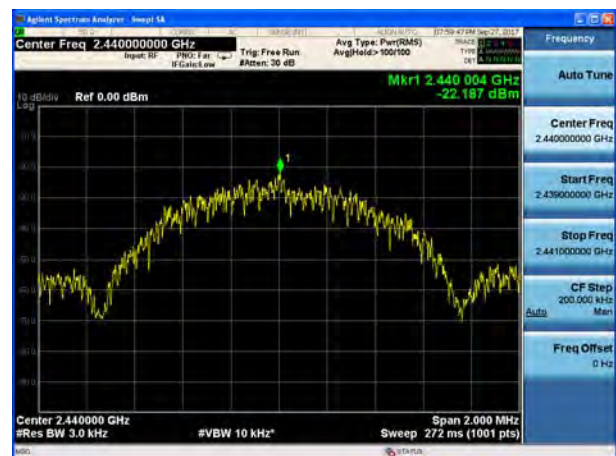
BLE, Channel No.: 0



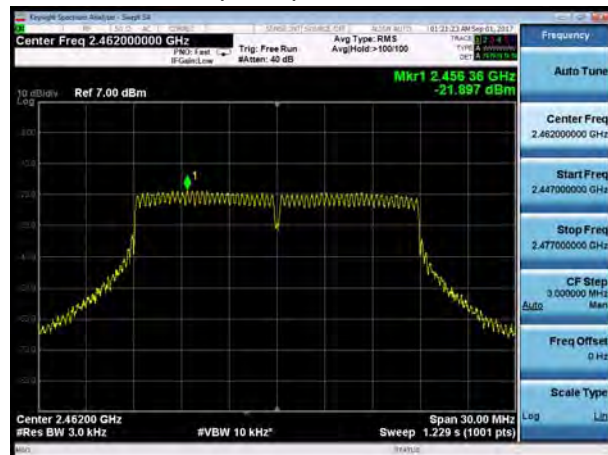
802.11n(HT20), Channel No. 6



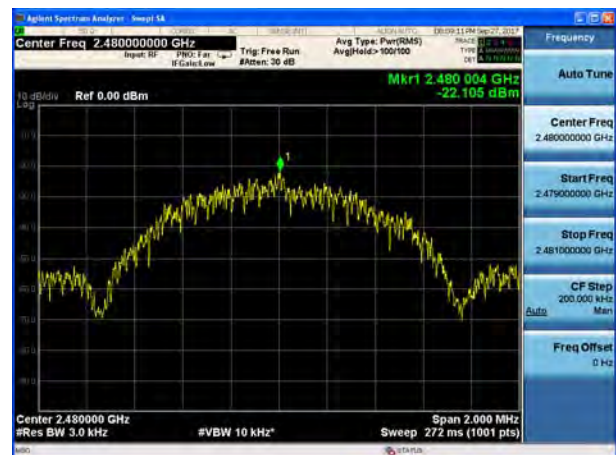
BLE, Channel No.: 19



802.11n(HT20), Channel No. 11

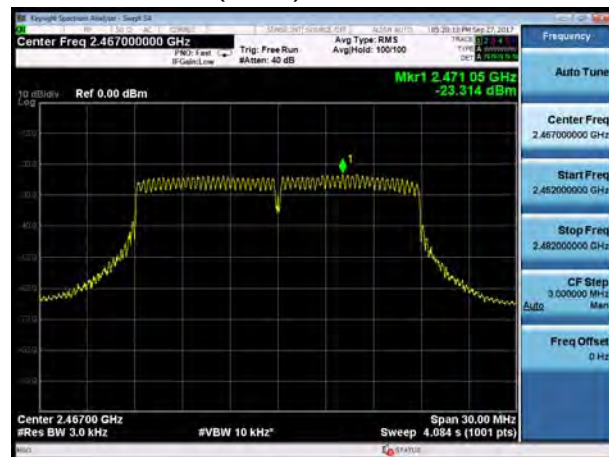


BLE, Channel No.: 39

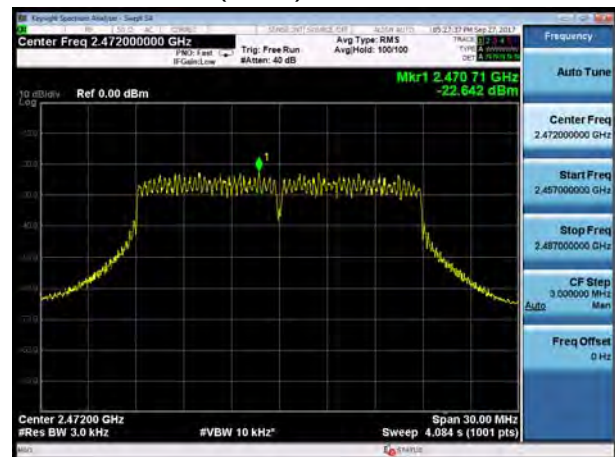




802.11n(HT20), Channel No. 12



802.11n(HT20), Channel No. 13



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. Set RBW to 100kHz and VBW to 300 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) specifies 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	16.018	-3.982
	2437	16.750	-3.250
	2462	17.769	-2.231
	2467	16.461	-3.539
	2472	16.755	-3.245
802.11g	2412	13.837	-6.163
	2437	13.925	-6.075
	2462	14.915	-5.085
	2467	12.643	-7.357
	2472	12.352	-7.648
802.11n HT20	2412	13.350	-6.650
	2437	15.017	-4.983
	2462	13.678	-6.322
	2467	13.057	-6.943
	2472	13.012	-6.988

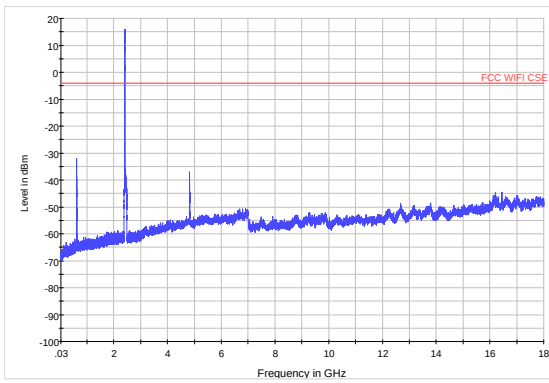


Bluetooth (Low Energy)	2402	6.357	-13.643
	2440	7.450	-12.550
	2480	6.899	-13.101

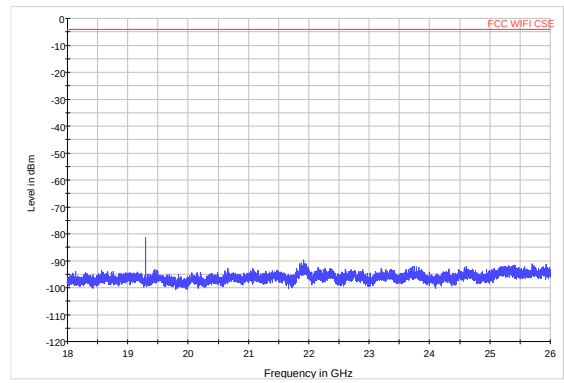
Measurement Uncertainty

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

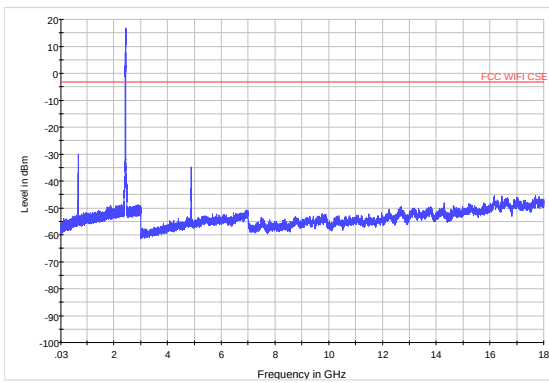
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

**Test Results:**

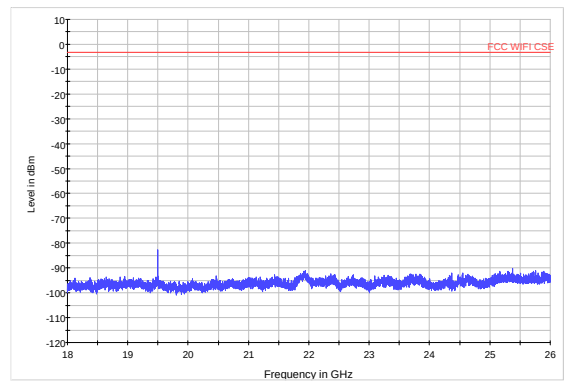
802.11b CH1 30MHz to 18GHz



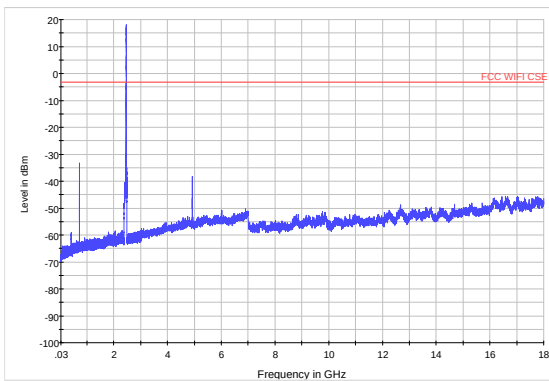
802.11b CH1 18GHz to 26.5GHz



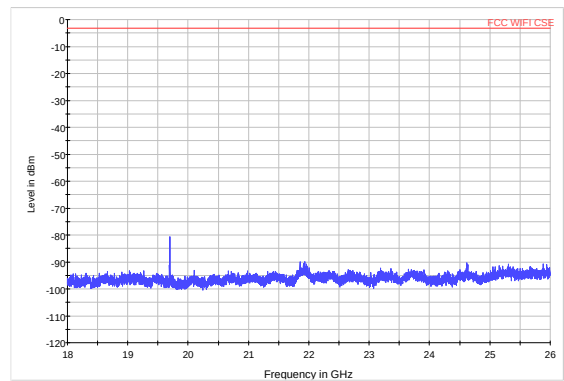
802.11b CH6 30MHz to 18GHz



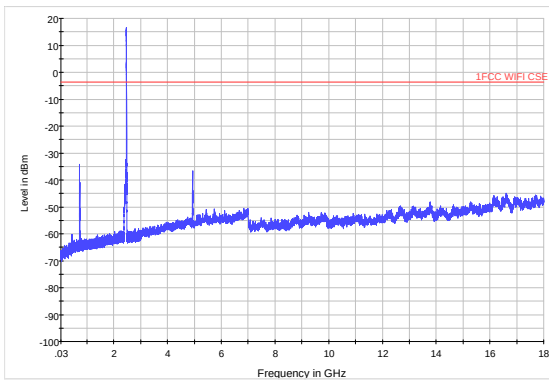
802.11b CH6 18GHz to 26.5GHz



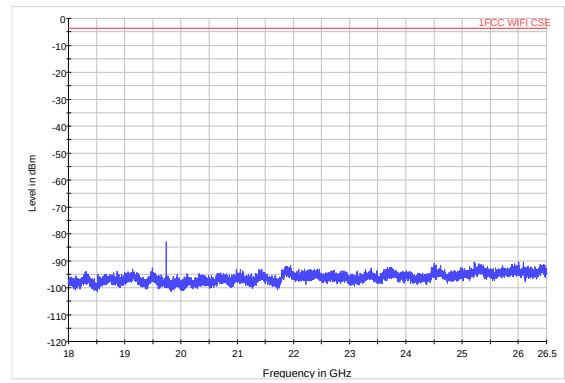
802.11b CH11 30MHz to 18GHz



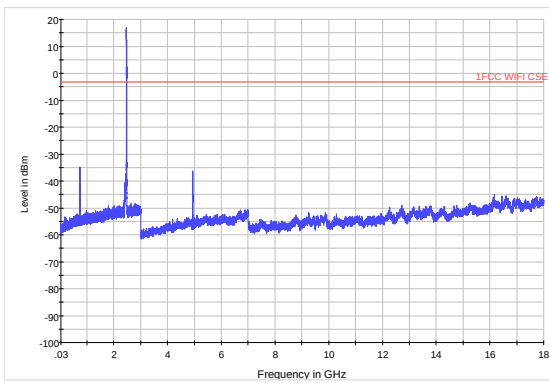
802.11b CH11 18GHz to 26.5GHz



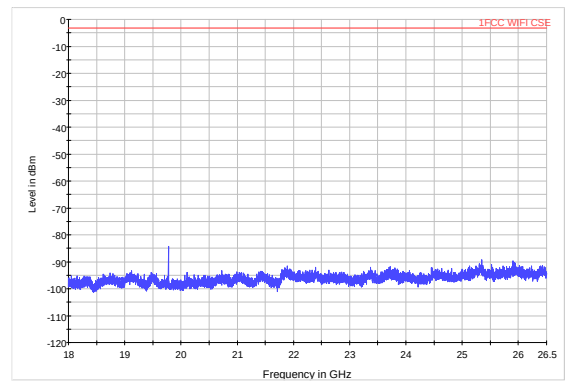
802.11b CH12 30MHz to 18GHz



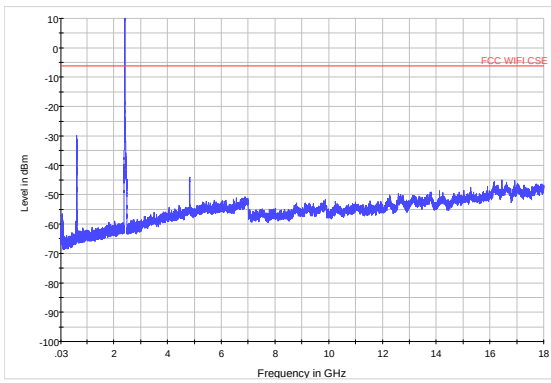
802.11b CH12 18GHz to 26.5GHz



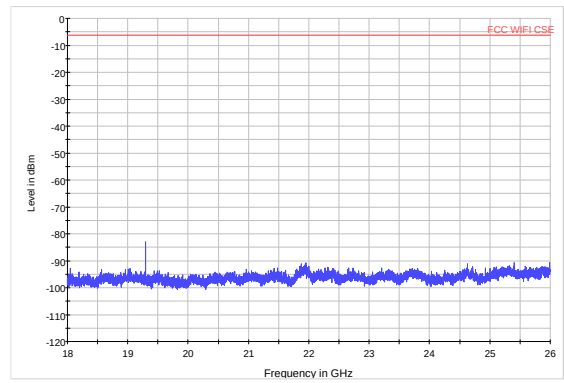
802.11b CH13 30MHz to 18GHz



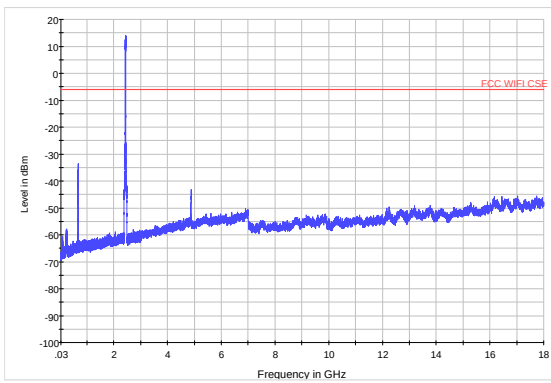
802.11b CH13 18GHz to 26.5GHz



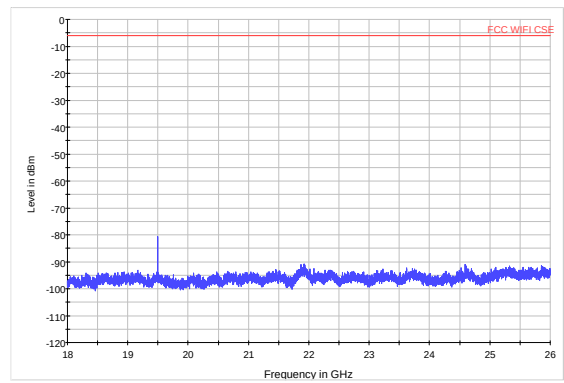
802.11g CH1 30MHz to 18GHz



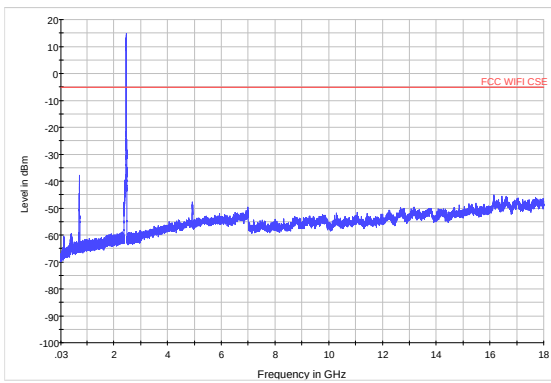
802.11g CH1 18GHz to 26.5GHz



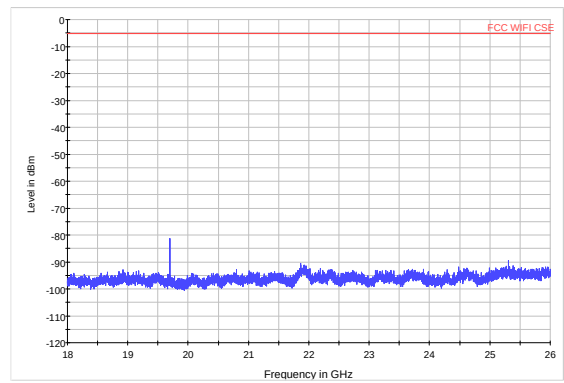
802.11g CH6 30MHz to 18GHz



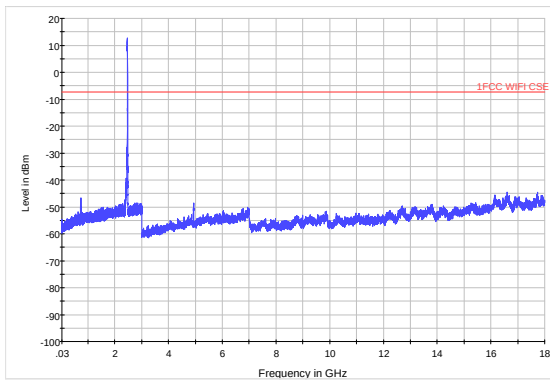
802.11g CH6 18GHz to 26.5GHz



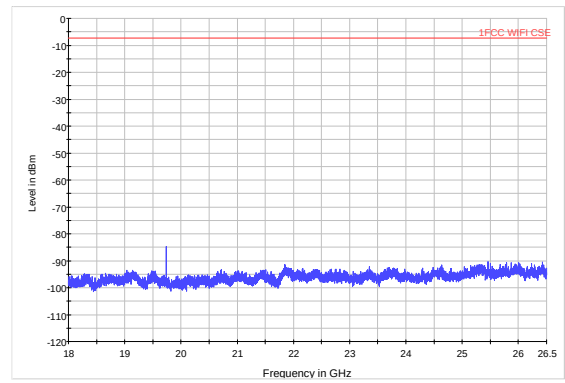
802.11g CH11 30MHz to 18GHz



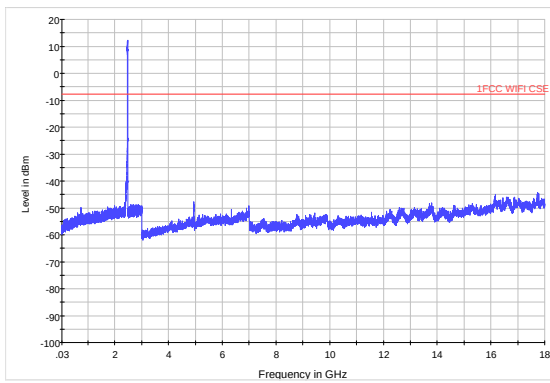
802.11g CH11 18GHz to 26.5GHz



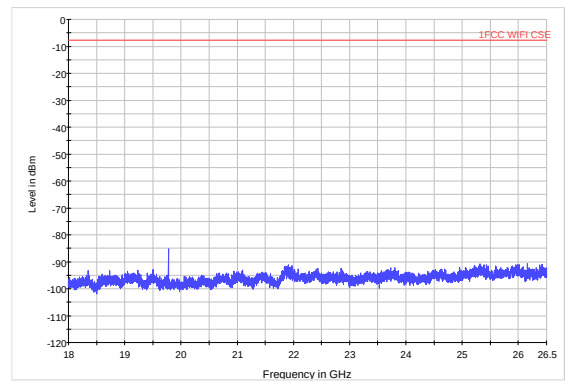
802.11g CH12 30MHz to 18GHz



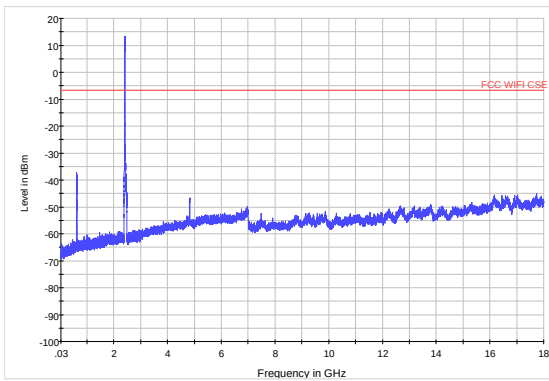
802.11g CH12 18GHz to 26.5GHz



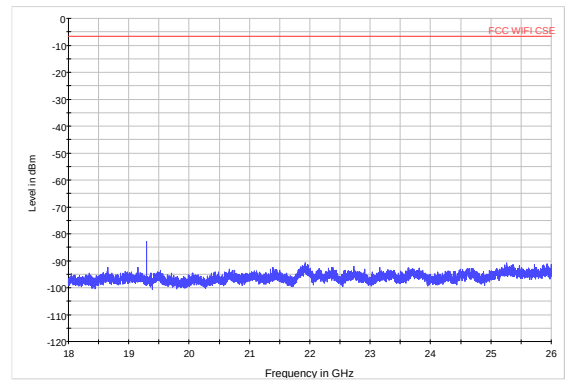
802.11g CH13 30MHz to 18GHz



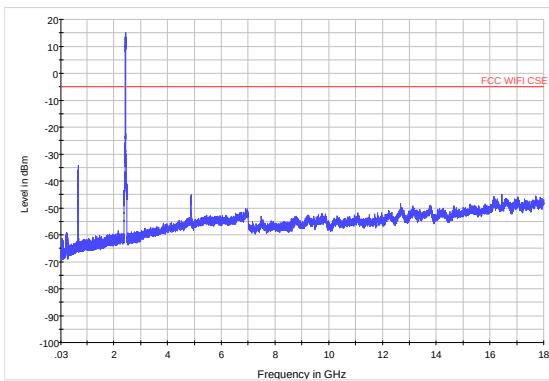
802.11g CH13 18GHz to 26.5GHz



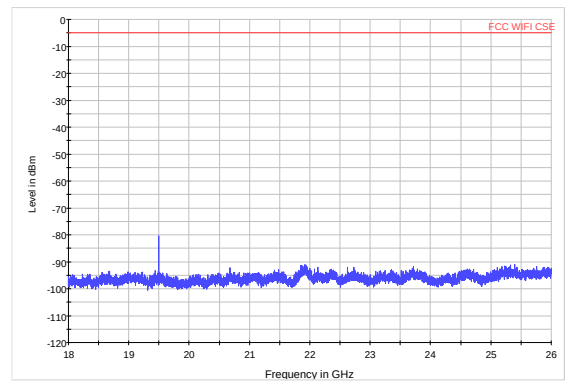
802.11n (HT20) CH1 30MHz to 18GHz



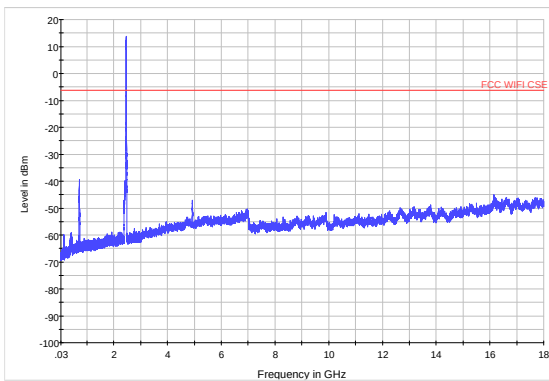
802.11n (HT20) CH1 18GHz to 26.5GHz



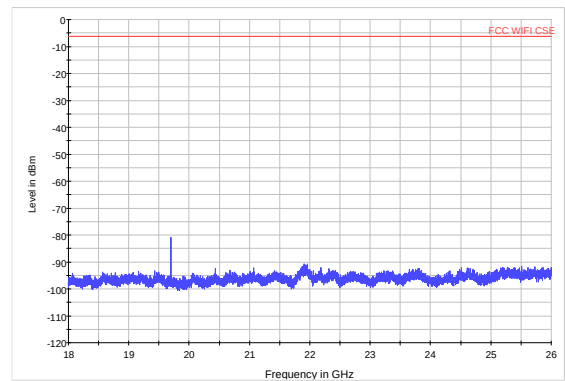
802.11n (HT20) CH6 30MHz to 18GHz



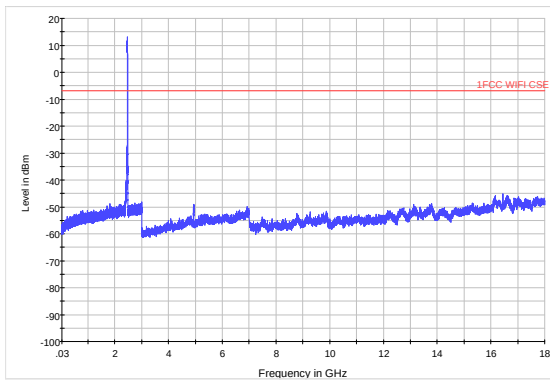
802.11n (HT20) CH6 18GHz to 26.5GHz



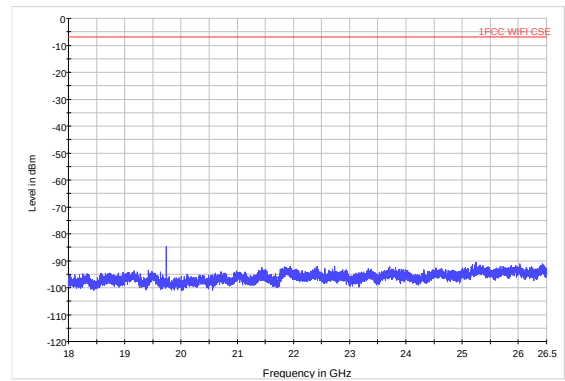
802.11n (HT20) CH11 30MHz to 18GHz



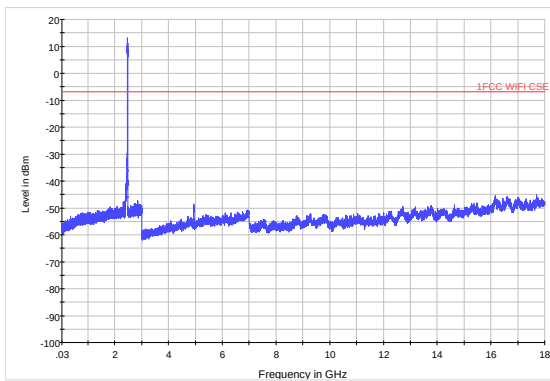
802.11n (HT20) CH11 18GHz to 26.5GHz



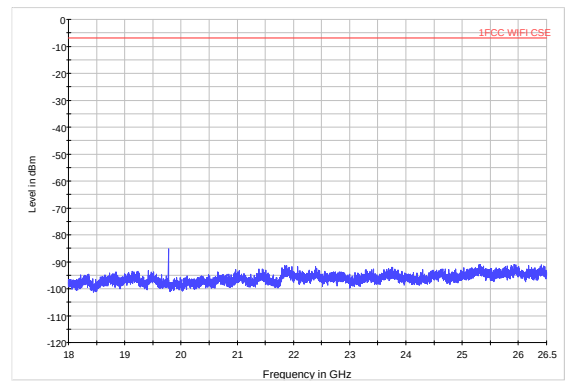
802.11n (HT20) CH12 30MHz to 18GHz



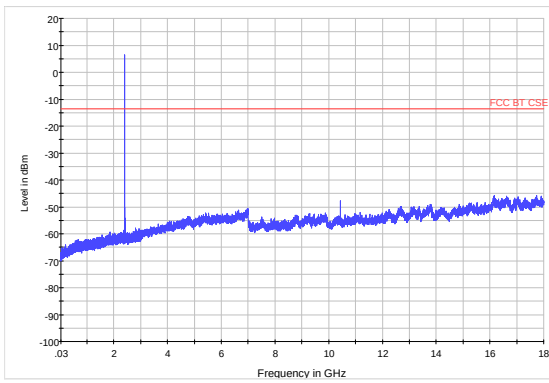
802.11n (HT20) CH12 18GHz to 26.5GHz



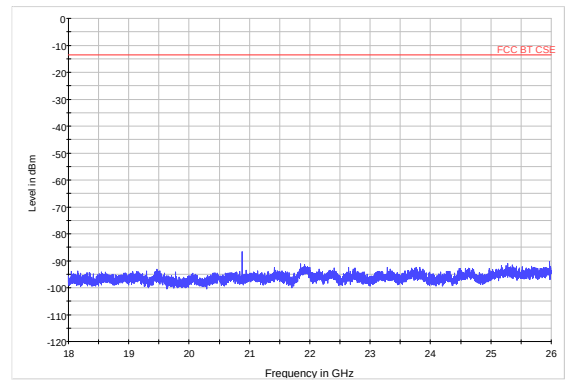
802.11n (HT20) CH13 30MHz to 18GHz



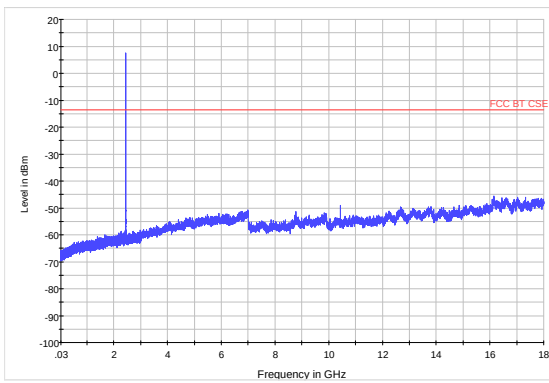
802.11n (HT20) CH13 18GHz to 26.5GHz



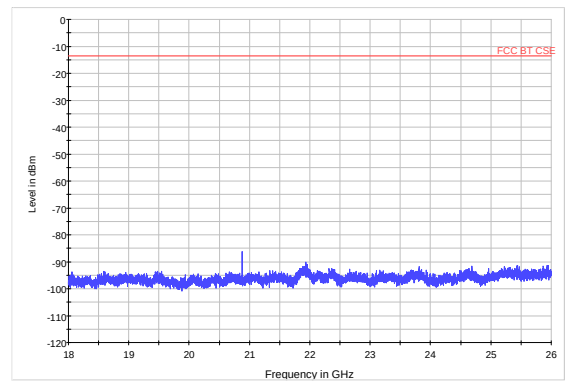
BLE CH0 30MHz to 18GHz



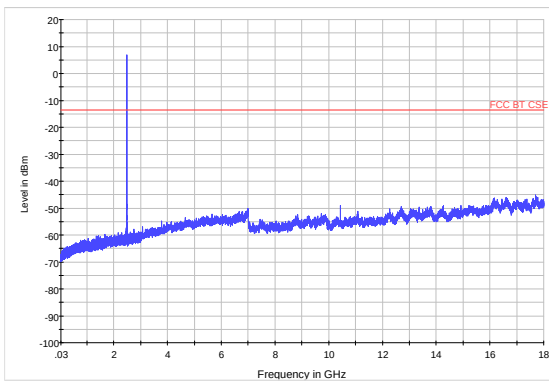
BLE CH0 18GHz to 26.5GHz



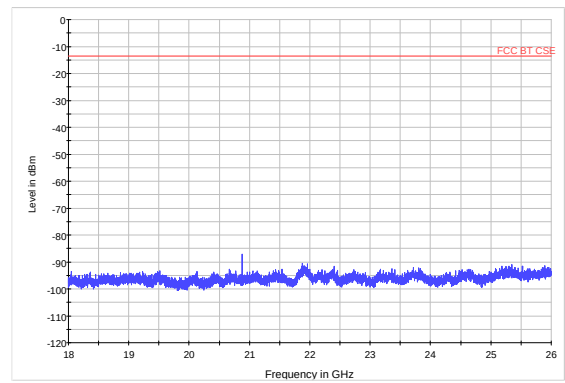
BLE CH19 30MHz to 18GHz



BLE CH39 30MHz to 18GHz



BLE CH19 18GHz to 26.5GHz



BLE CH39 18GHz to 26.5GHz

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
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)

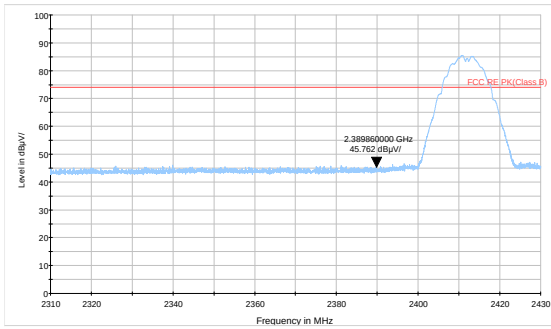
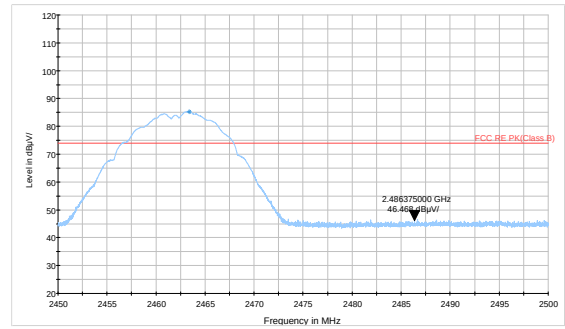
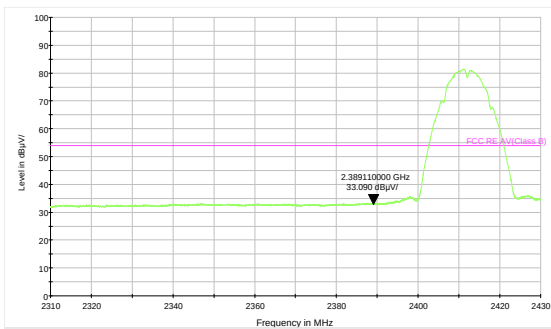
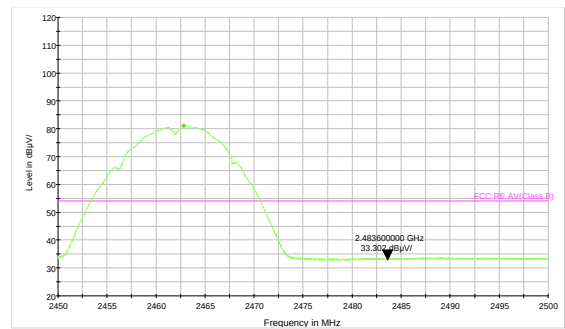
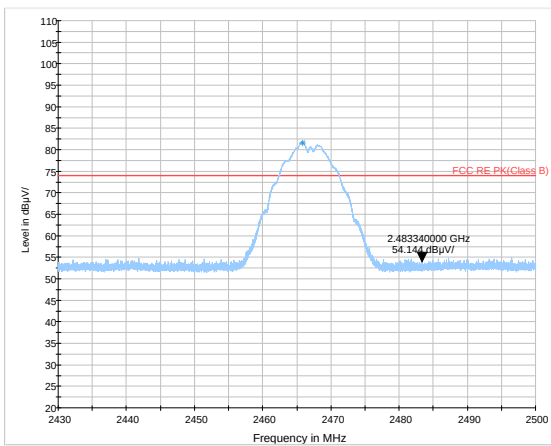
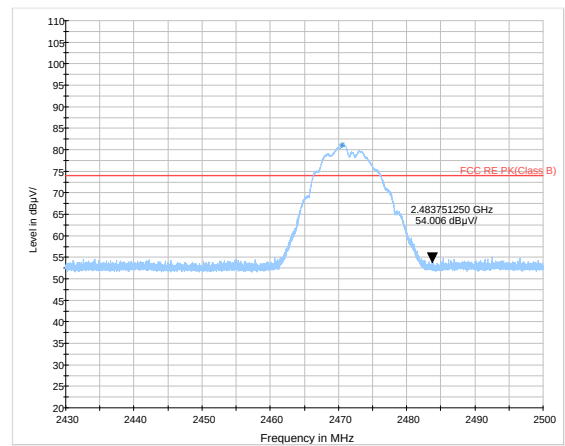
There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

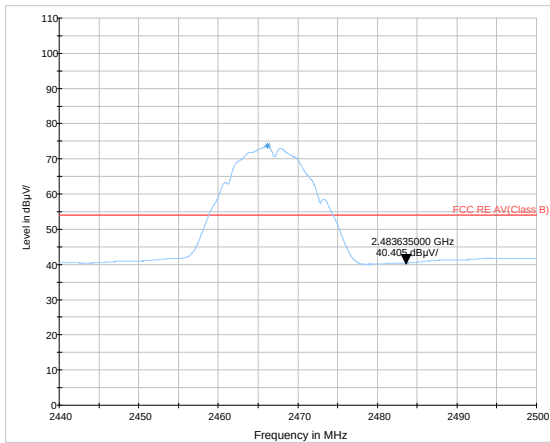
Average Limit=54 dBuV/m

Measurement Uncertainty

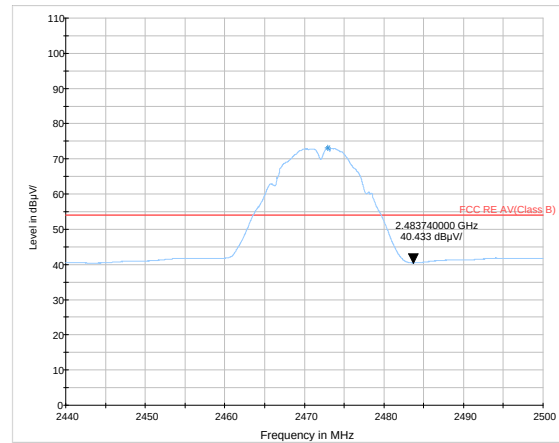
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.55$ dB.

**Test Results:****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****802.11b-Channel 12: Peak****802.11b-Channel 13: Peak**

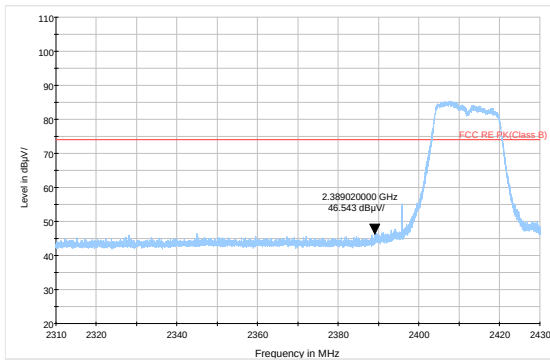
802.11b-Channel 12: Average



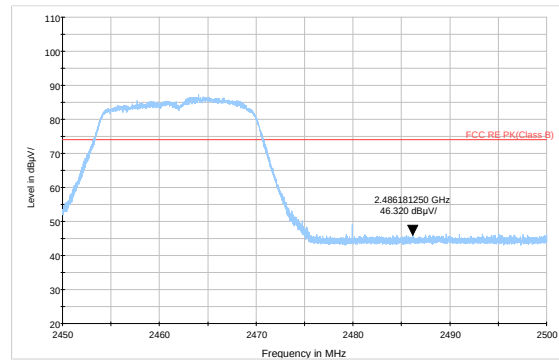
802.11b-Channel 13: Average



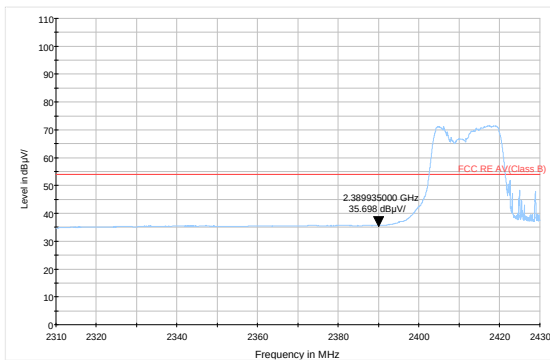
802.11g-Channel 1: Peak



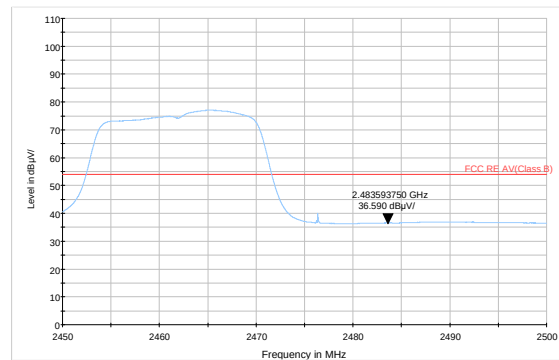
802.11g-Channel 11: Peak



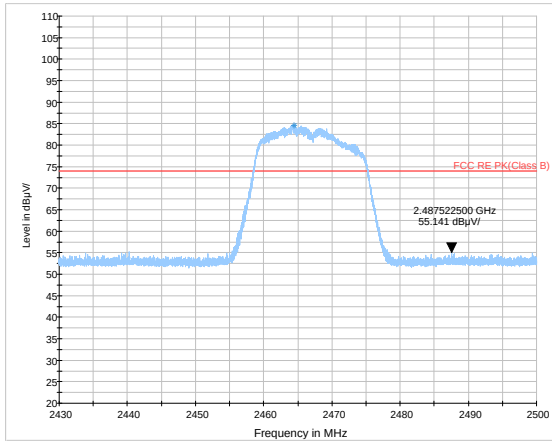
802.11g-Channel 1: Average



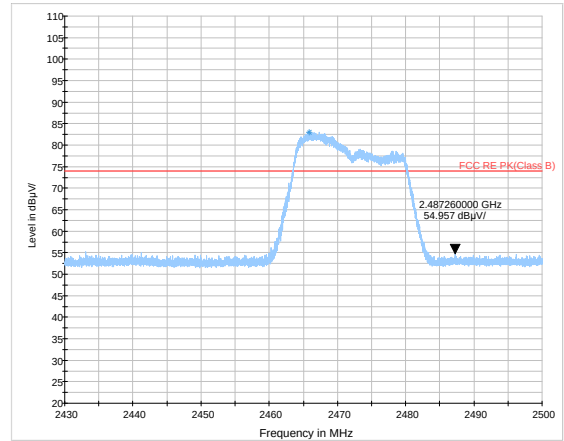
802.11g-Channel 11: Average



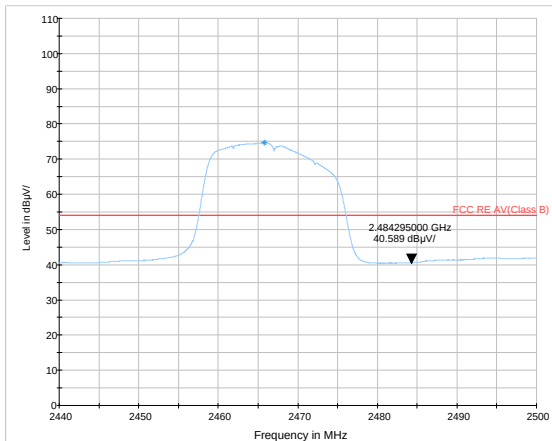
802.11g-Channel 12: Peak



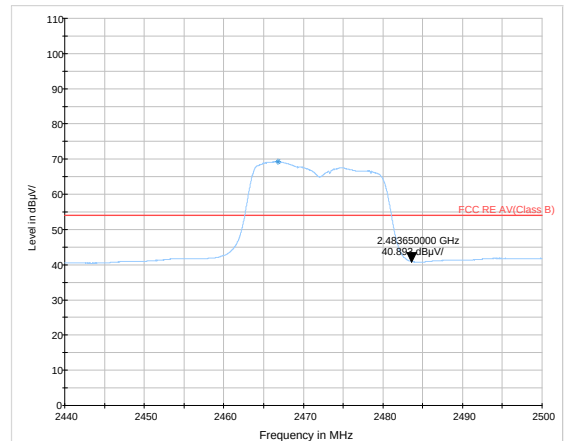
802.11g-Channel 13: Peak



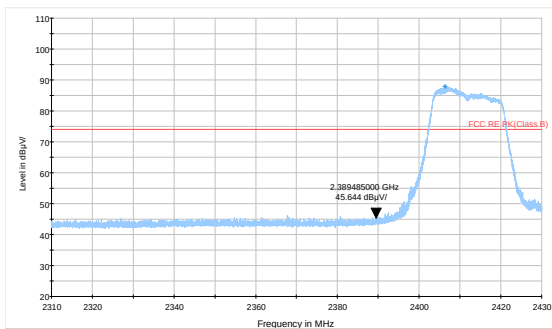
802.11g-Channel 12: Average



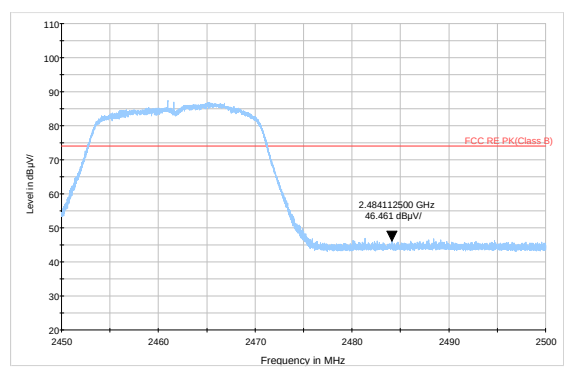
802.11g-Channel 13: Average



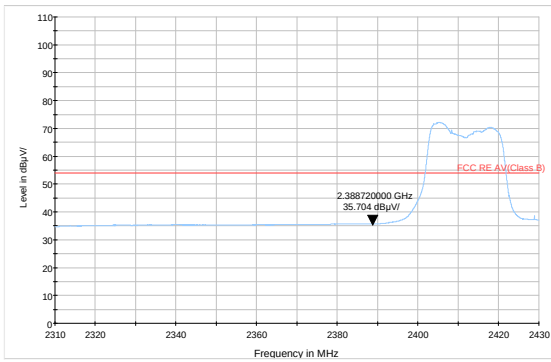
802.11n HT20 -Channel 1: Peak



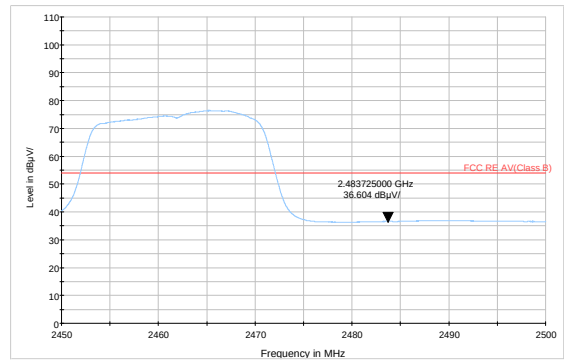
802.11n HT20-Channel 11: Peak



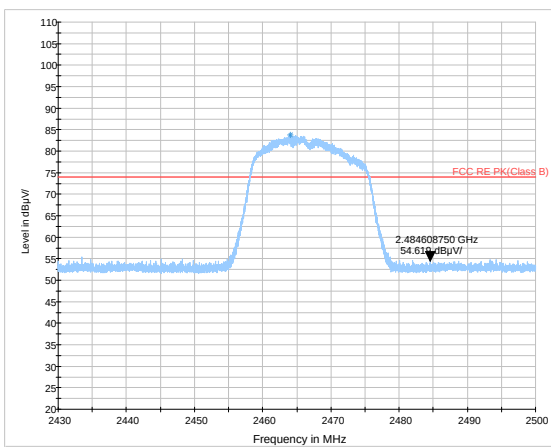
802.11n HT20-Channel 1: Average



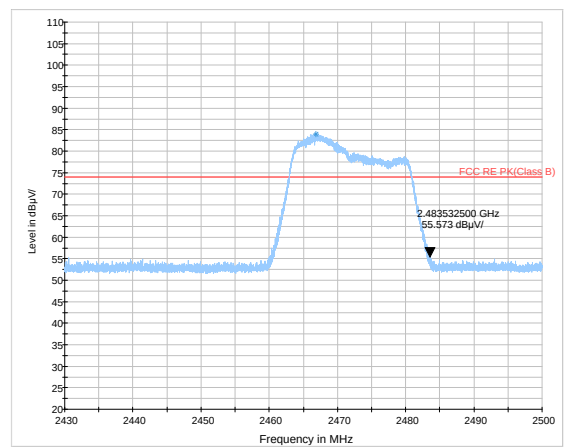
802.11n HT20-Channel 11: Average



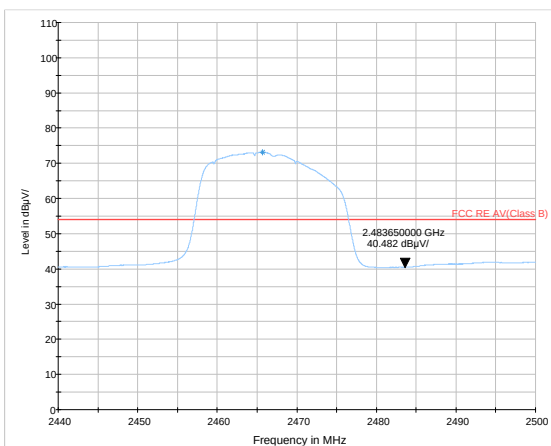
802.11n HT20 -Channel 12: Peak



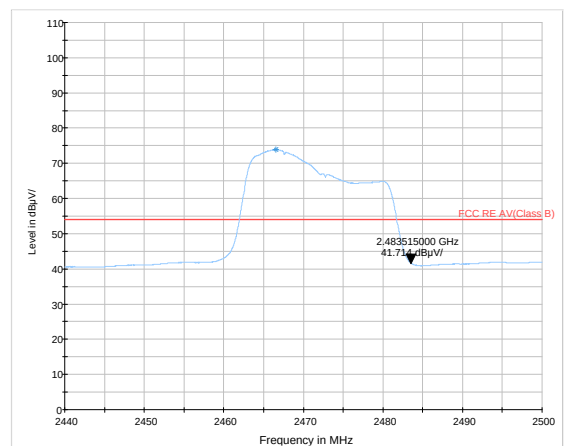
802.11n HT20-Channel 13: Peak



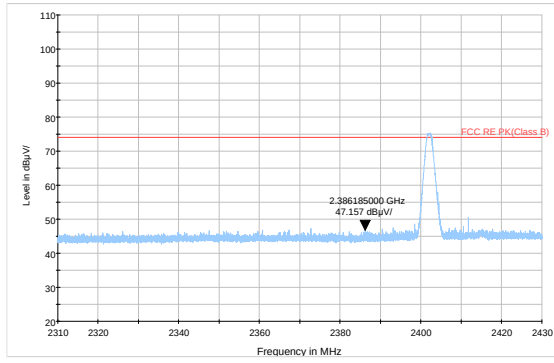
802.11n HT20-Channel 12: Average



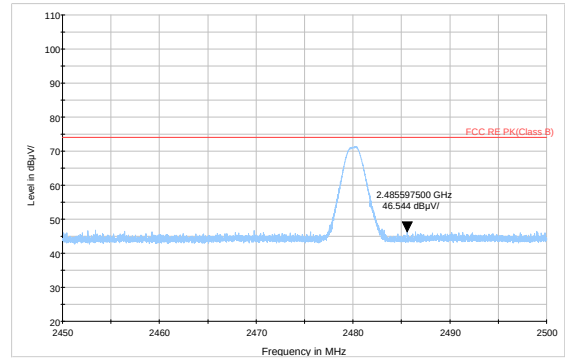
802.11n HT20-Channel 13: Average



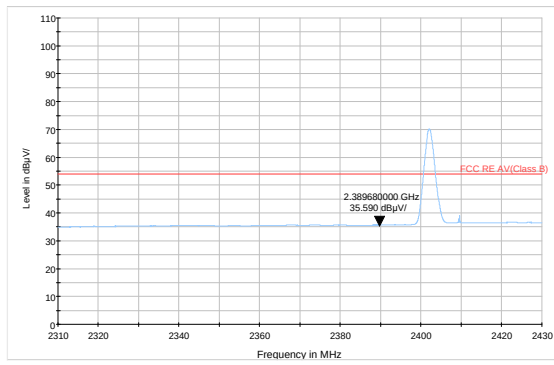
BLE -Channel 0: Peak



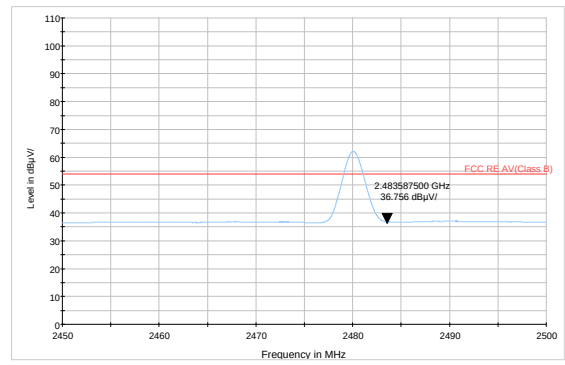
BLE -Channel 39: Peak



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

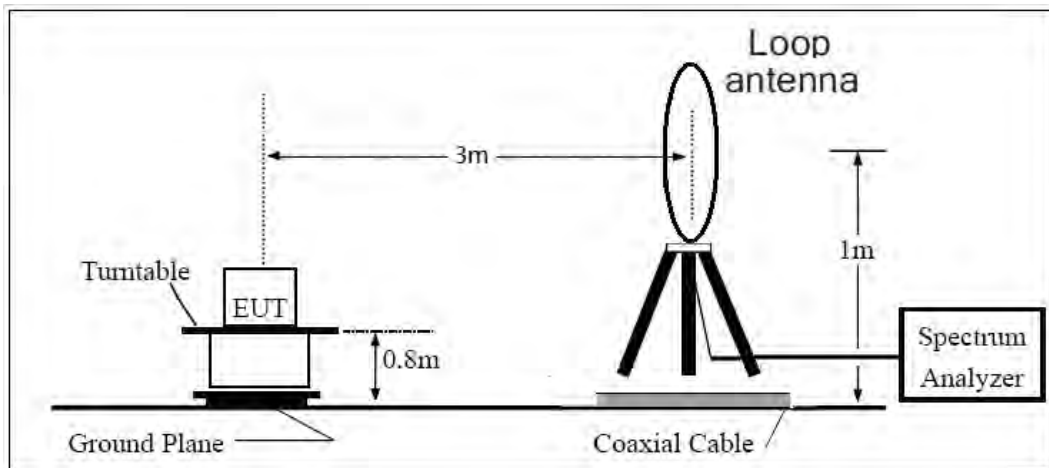
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

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.

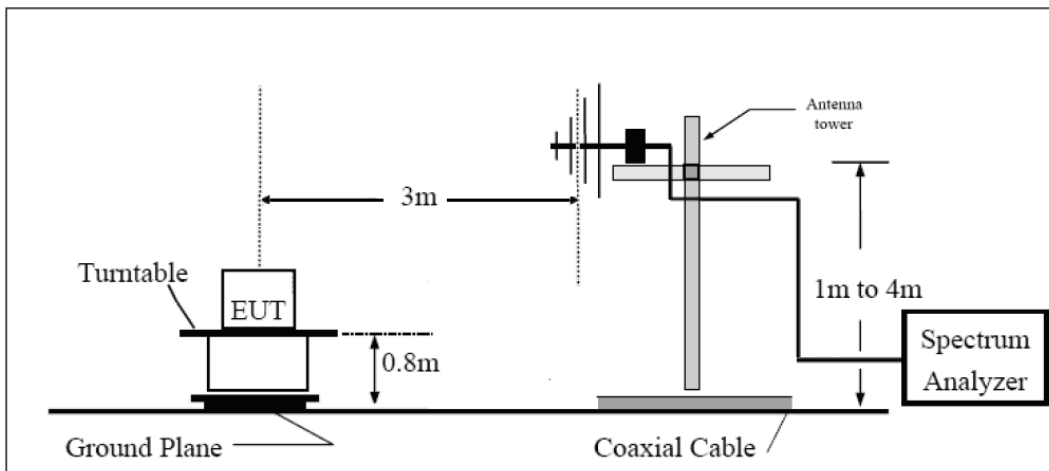
The test is in transmitting mode.

Test setup

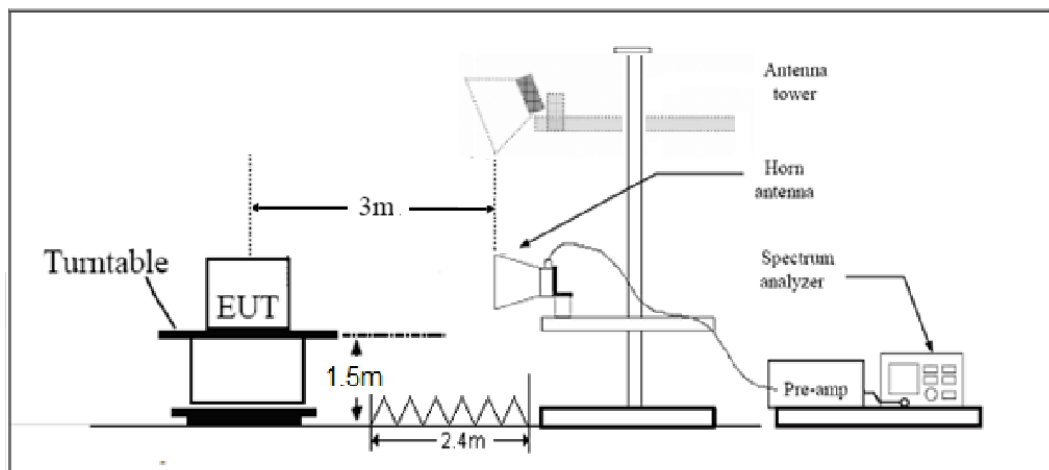
9KHz ~ 30MHz



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.

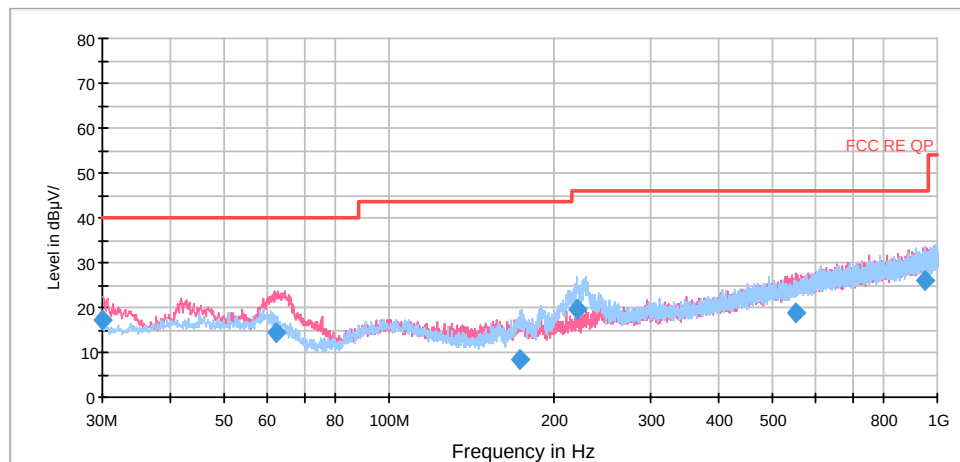
The following graphs display the maximum values of horizontal and vertical by software.

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

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11b, Channel 11 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:

FCC RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

802.11b CH1

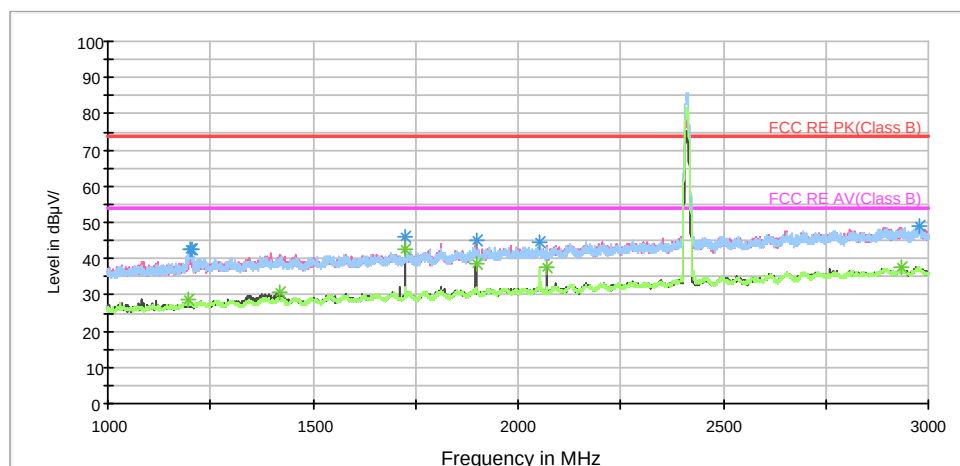
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1200.000000	42.8	102.0	H	195.0	51.0	-8.2	31.2	74
1203.750000	42.6	102.0	H	204.0	50.8	-8.2	31.4	74
1725.250000	45.9	202.0	V	141.0	50.9	-5.0	28.1	74
1897.500000	45.3	202.0	V	141.0	49.2	-3.9	28.7	74
2053.250000	44.4	202.0	H	310.0	47.6	-3.2	29.6	74
2976.250000	48.9	102.0	H	176.0	46.7	2.2	25.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.750000	28.7	102.0	H	195.0	36.9	-8.2	25.3	54
1417.250000	30.6	102.0	V	194.0	37.5	-6.9	23.4	54
1725.000000	42.7	102.0	V	158.0	47.7	-5.0	11.3	54
1897.500000	38.5	102.0	V	248.0	42.4	-3.9	15.5	54
2070.000000	37.9	202.0	V	279.0	41.0	-3.1	16.1	54
2932.500000	37.6	102.0	V	166.0	35.8	1.8	16.4	54

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

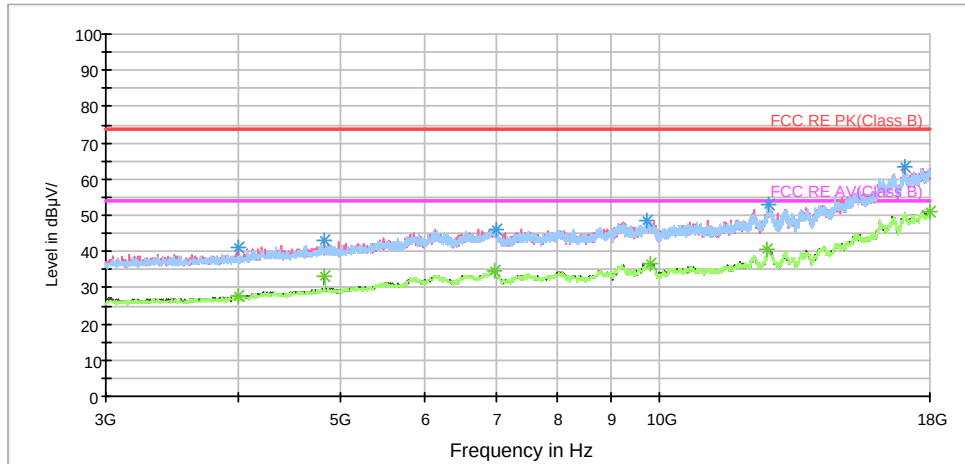
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

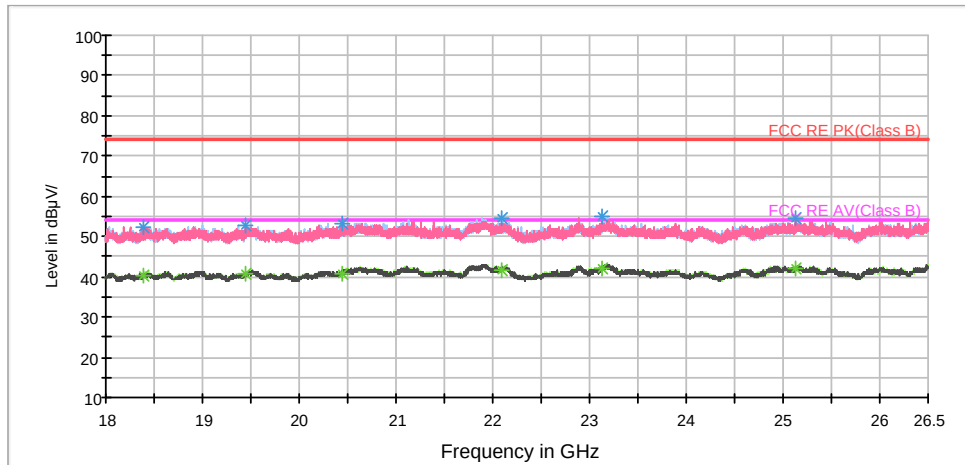
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



802.11b CH6

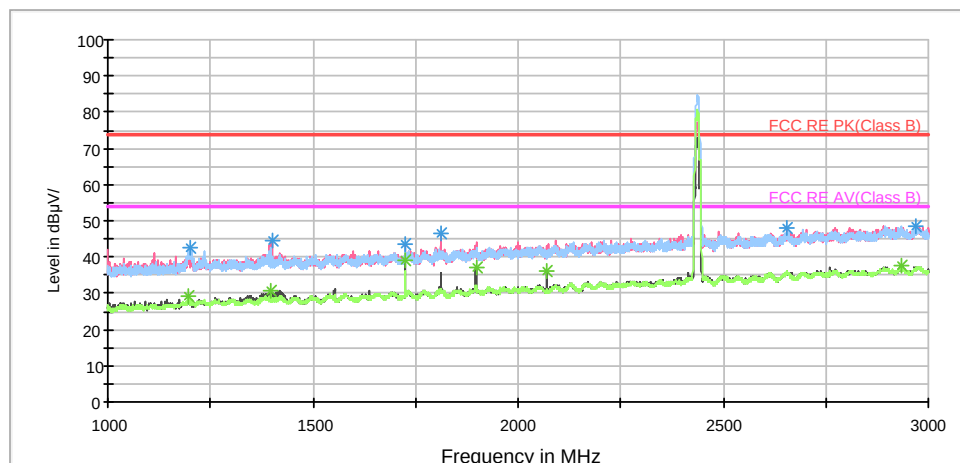
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.750000	42.5	102.0	H	198.0	50.7	-8.2	31.5	74
1399.750000	44.3	102.0	V	196.0	51.4	-7.1	29.7	74
1724.750000	43.5	102.0	V	169.0	48.5	-5.0	30.5	74
1811.250000	46.7	102.0	V	169.0	50.9	-4.2	27.3	74
2655.250000	48.0	102.0	V	0.0	47.6	0.4	26.0	74
2970.750000	48.7	202.0	V	0.0	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)
1198.250000	29.1	202.0	H	277.0	37.3	-8.2	24.9	54
1396.250000	30.8	202.0	V	11.0	37.9	-7.1	23.2	54
1725.000000	39.1	102.0	V	169.0	44.1	-5.0	14.9	54
1897.750000	37.1	102.0	V	160.0	40.9	-3.8	16.9	54
2070.000000	36.4	202.0	V	288.0	39.5	-3.1	17.6	54
2933.000000	37.7	202.0	V	89.0	35.9	1.8	16.3	54

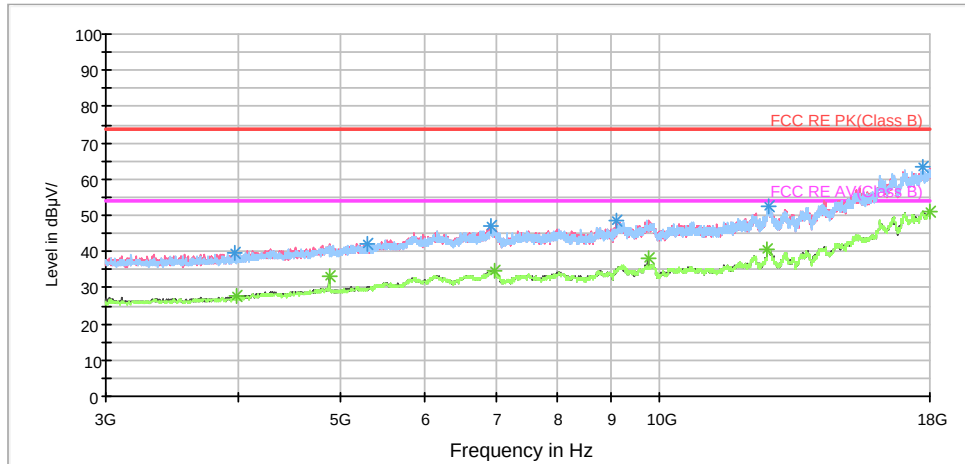
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 1G-3GHz PK+AV



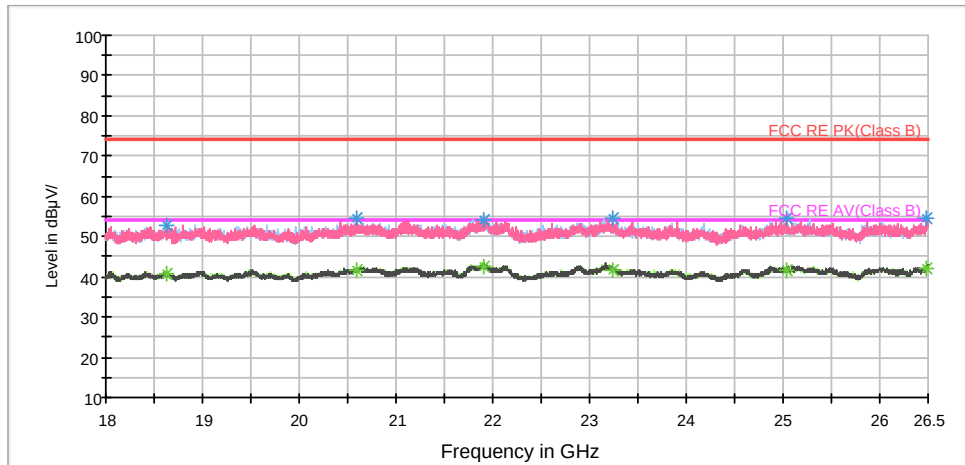
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11b CH11

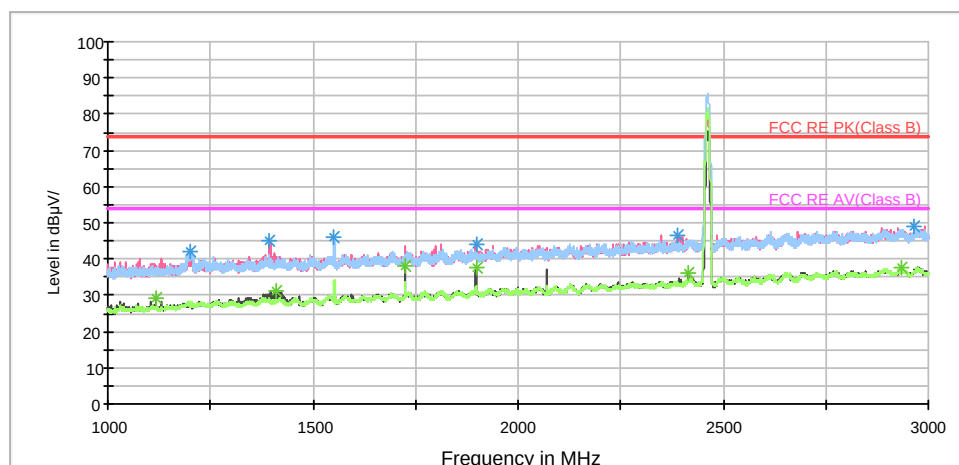
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1200.500000	42.1	102.0	H	190.0	50.3	-8.2	31.9	74
1393.500000	44.9	102.0	V	185.0	51.9	-7.0	29.1	74
1552.250000	45.8	202.0	H	204.0	52.1	-6.3	28.2	74
1897.500000	43.8	102.0	V	257.0	47.7	-3.9	30.2	74
2389.500000	46.8	102.0	V	0.0	48.2	-1.4	27.2	74
2965.750000	49.2	202.0	H	115.0	47.0	2.2	24.8	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)
1118.250000	29.0	102.0	V	202.0	37.6	-8.6	25.0	54
1411.000000	31.0	102.0	V	202.0	38.1	-7.1	23.0	54
1725.000000	38.2	102.0	V	149.0	43.2	-5.0	15.8	54
1897.500000	37.7	102.0	V	257.0	41.6	-3.9	16.3	54
2415.000000	36.1	102.0	V	257.0	36.7	-0.6	17.9	54
2933.000000	37.8	202.0	V	150.0	36.0	1.8	16.2	54

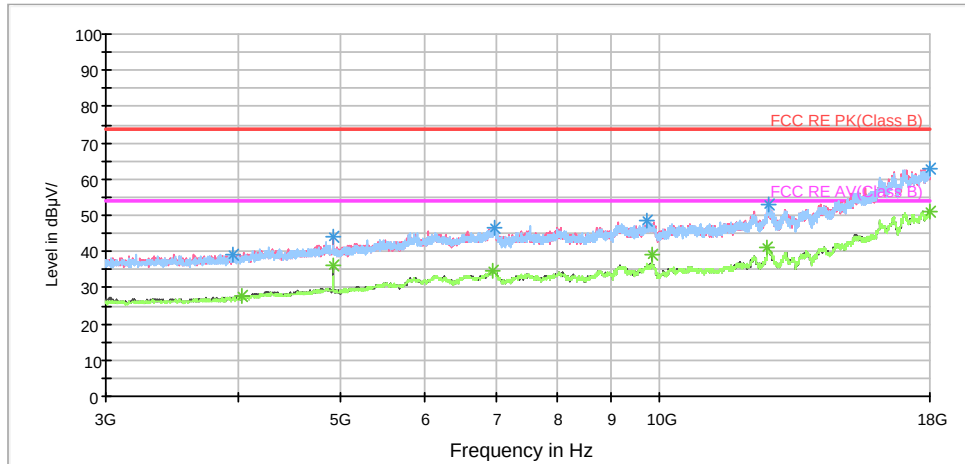
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 1G-3GHz PK+AV



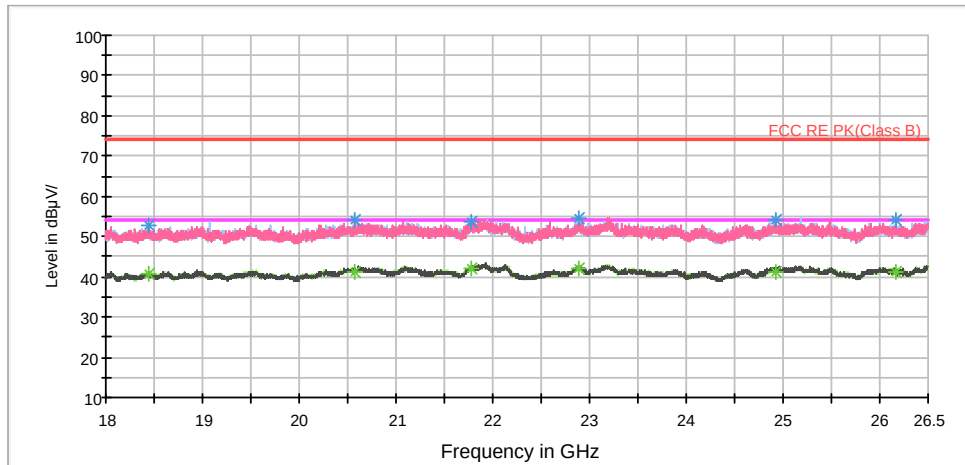
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11b CH12

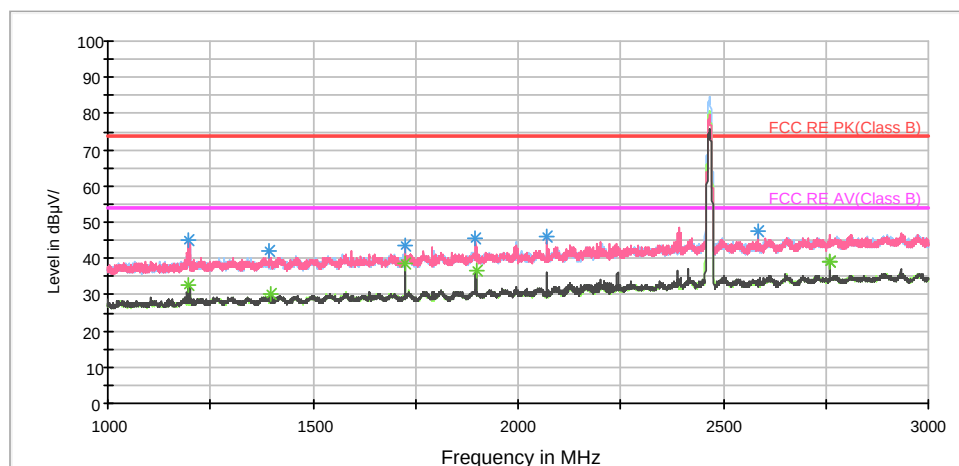
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.500000	45.1	202.0	V	89.0	54.1	-9.0	28.9	74
1394.250000	42.1	202.0	V	55.0	50.2	-8.1	31.9	74
1724.250000	43.6	202.0	V	55.0	50.3	-6.7	30.4	74
1897.250000	45.5	102.0	V	199.0	51.4	-5.9	28.5	74
2070.000000	46.3	102.0	V	163.0	51.6	-5.3	27.7	74
2584.000000	47.5	202.0	V	111.0	50.2	-2.7	26.5	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)
1196.000000	32.9	202.0	H	75.0	41.8	-8.9	21.1	54
1398.250000	30.4	102.0	V	282.0	38.5	-8.1	23.6	54
1724.750000	38.7	202.0	V	89.0	45.4	-6.7	15.3	54
1897.500000	36.6	102.0	V	177.0	42.4	-5.8	17.4	54
2760.000000	39.1	202.0	V	77.0	41.0	-1.9	14.9	54
2760.250000	39.3	202.0	V	77.0	41.2	-1.9	14.7	54

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

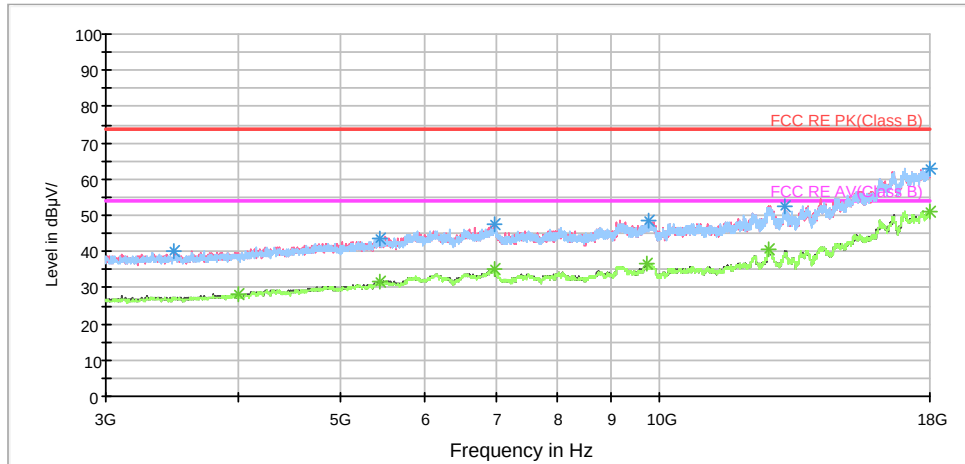
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

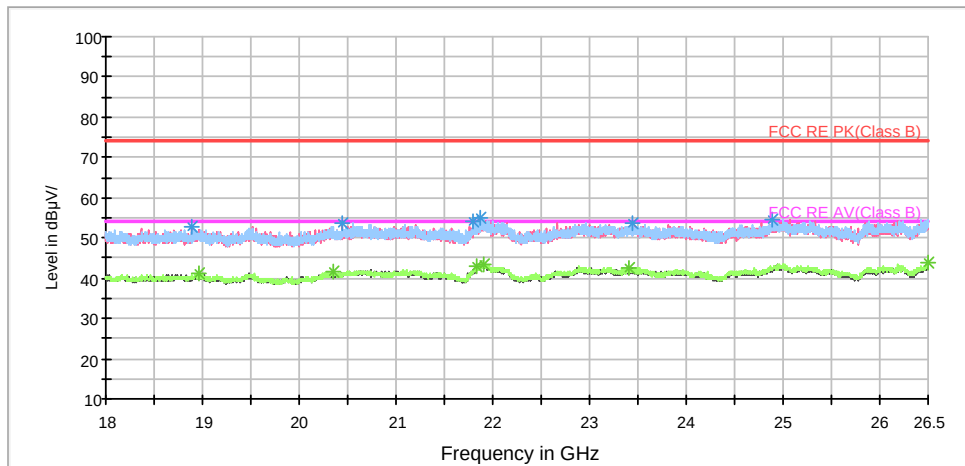
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



802.11b CH13

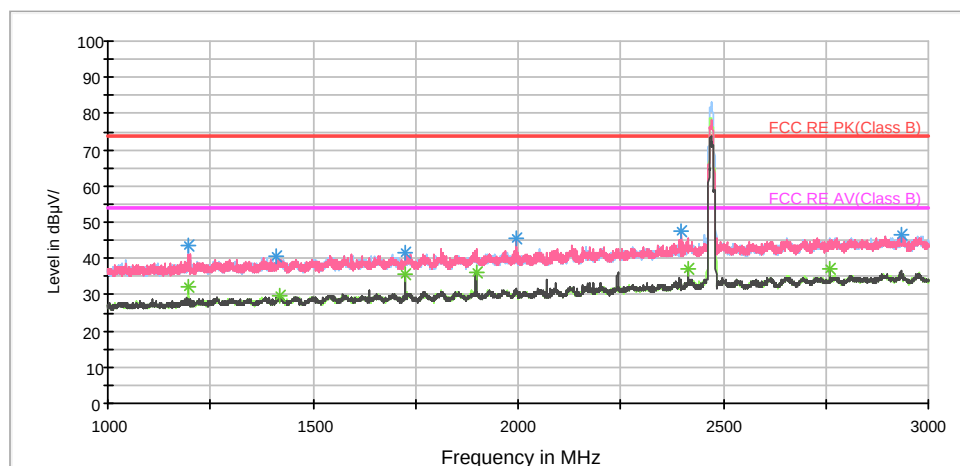
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.000000	43.6	202.0	H	35.0	52.6	-9.0	30.4	74
1412.500000	40.6	202.0	H	46.0	48.7	-8.1	33.4	74
1724.750000	41.8	202.0	V	145.0	48.5	-6.7	32.2	74
1994.250000	45.5	202.0	V	88.0	50.9	-5.4	28.5	74
2399.500000	47.7	202.0	V	13.0	51.2	-3.5	26.3	74
2933.250000	46.3	102.0	V	0.0	47.7	-1.4	27.7	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)
1198.000000	32.3	202.0	H	35.0	41.3	-9.0	21.7	54
1417.750000	29.6	102.0	V	148.0	37.6	-8.0	24.4	54
1724.750000	35.8	202.0	V	145.0	42.5	-6.7	18.2	54
1897.500000	36.3	102.0	V	28.0	42.1	-5.8	17.7	54
2415.000000	37.1	102.0	V	0.0	39.9	-2.8	16.9	54
2760.250000	37.0	102.0	V	72.0	38.9	-1.9	17.0	54

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

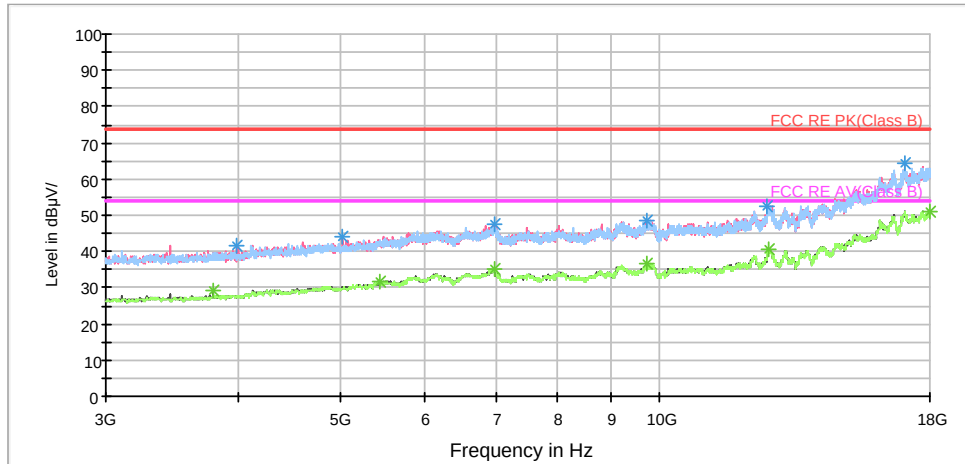
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

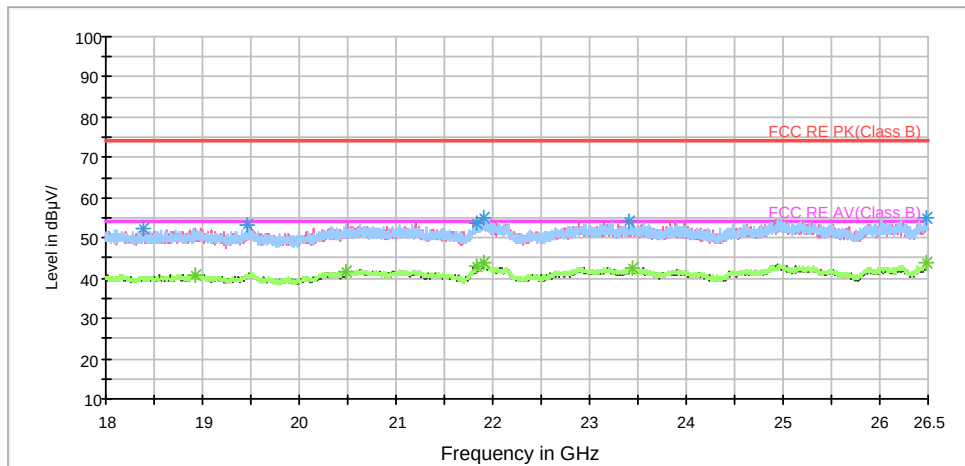
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11g CH1

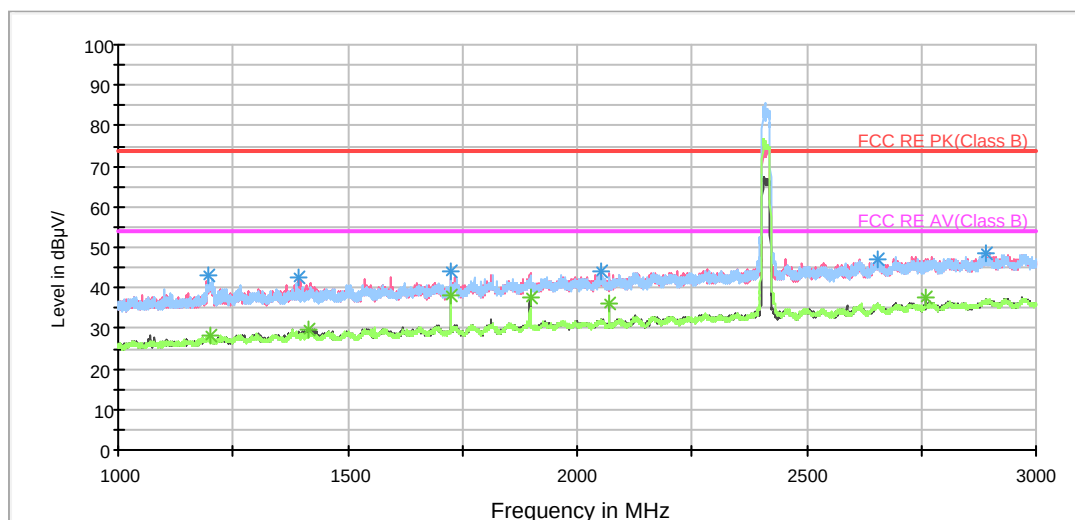
Frequency (MHz)	Peak (dBUV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBUV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBUV/m)
1197.750000	42.8	100.0	H	293.0	51.0	-8.2	31.2	74
1393.750000	42.3	100.0	V	195.0	49.3	-7.0	31.7	74
1725.500000	44.2	100.0	H	207.0	49.3	-5.1	29.8	74
2052.750000	43.9	100.0	V	0.0	47.1	-3.2	30.1	74
2653.000000	47.1	100.0	V	259.0	46.7	0.4	26.9	74
2890.750000	48.5	100.0	V	329.0	46.3	2.2	25.5	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)
1200.250000	28.5	100.0	V	285.0	36.7	-8.2	25.5	54
1414.750000	29.7	100.0	V	277.0	36.7	-7.0	24.3	54
1725.000000	38.2	100.0	H	207.0	43.2	-5.0	15.8	54
1897.500000	37.6	100.0	V	0.0	41.5	-3.9	16.4	54
2070.000000	36.0	100.0	V	0.0	39.1	-3.1	18.0	54
2760.000000	37.4	100.0	V	0.0	36.5	0.9	16.6	54

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

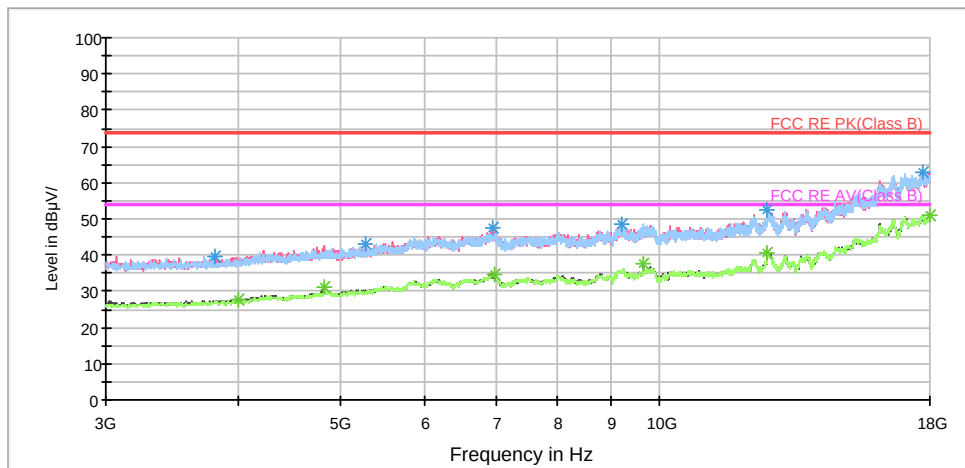
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

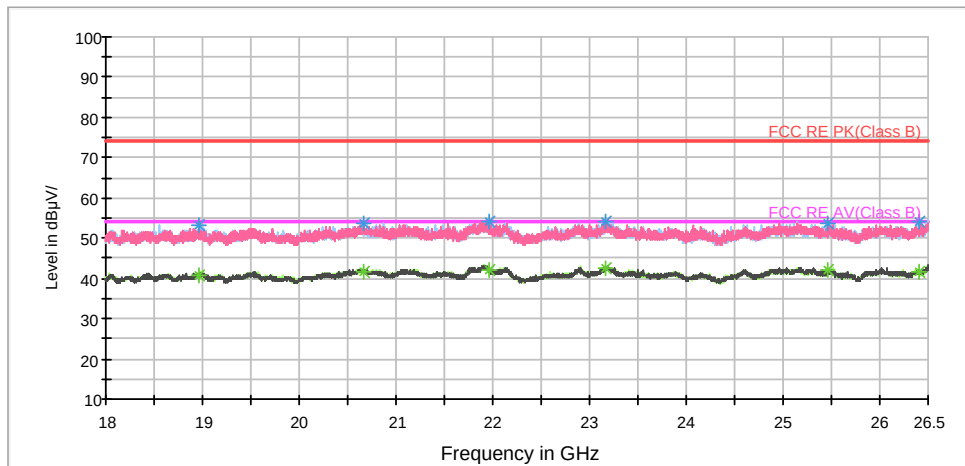
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11g CH6

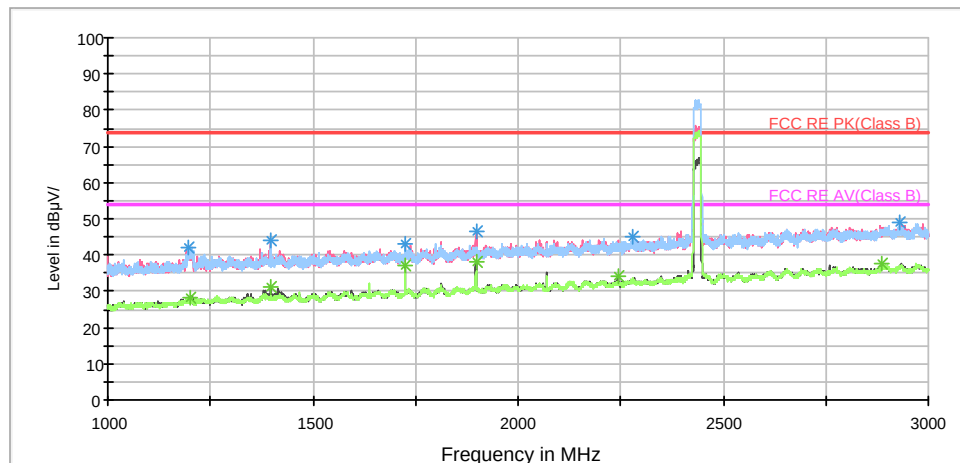
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.750000	42.0	100.0	V	303.0	50.2	-8.2	32.0	74
1399.000000	44.0	100.0	V	276.0	51.1	-7.1	30.0	74
1725.250000	43.1	100.0	H	44.0	48.1	-5.0	30.9	74
1897.500000	46.4	100.0	V	0.0	50.3	-3.9	27.6	74
2278.250000	45.1	100.0	H	124.0	46.5	-1.4	28.9	74
2930.500000	48.9	100.0	H	0.0	47.1	1.8	25.1	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.250000	28.5	100.0	V	293.0	36.7	-8.2	25.5	54
1396.000000	31.3	100.0	V	276.0	38.4	-7.1	22.7	54
1725.000000	37.2	100.0	V	248.0	42.2	-5.0	16.8	54
1897.500000	38.0	100.0	V	0.0	41.9	-3.9	16.0	54
2242.500000	34.4	100.0	V	193.0	36.9	-2.5	19.6	54
2886.500000	37.4	100.0	V	267.0	35.2	2.2	16.6	54

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

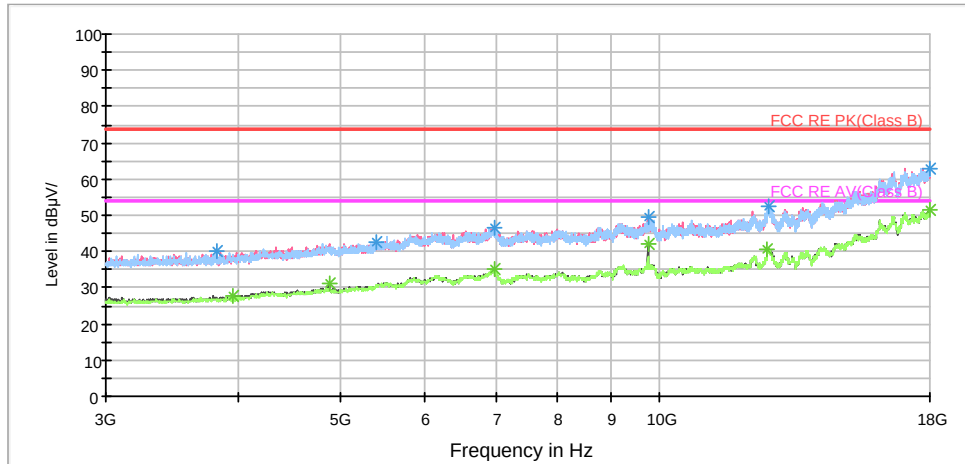
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

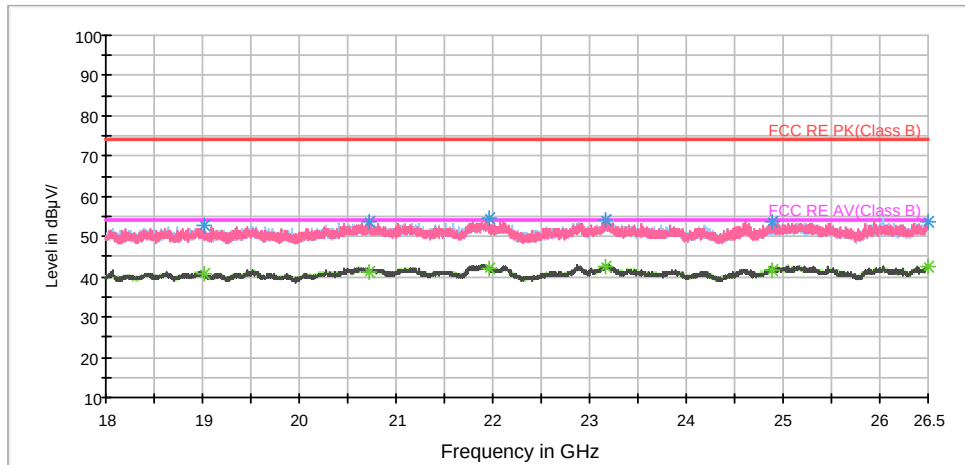
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11g CH11

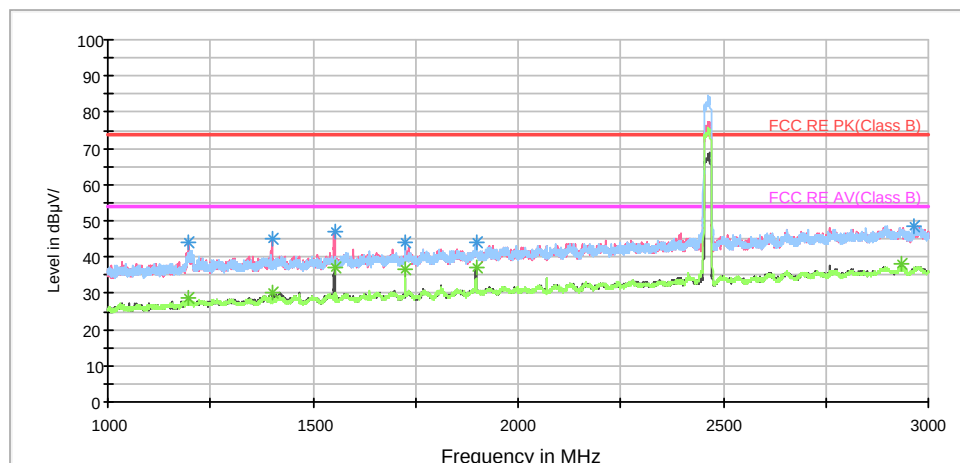
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.500000	44.0	100.0	V	277.0	52.2	-8.2	30.0	74
1399.750000	45.1	100.0	V	251.0	52.2	-7.1	28.9	74
1552.750000	47.0	100.0	V	277.0	53.4	-6.4	27.0	74
1725.500000	44.0	100.0	H	128.0	49.1	-5.1	30.0	74
1897.500000	44.0	100.0	V	0.0	47.9	-3.9	30.0	74
2966.250000	48.6	100.0	V	0.0	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)
1198.500000	28.9	100.0	V	277.0	37.1	-8.2	25.1	54
1400.000000	30.3	100.0	V	259.0	37.4	-7.1	23.7	54
1552.500000	37.3	100.0	V	277.0	43.6	-6.3	16.7	54
1725.000000	36.7	100.0	H	209.0	41.7	-5.0	17.3	54
1897.500000	37.0	100.0	V	0.0	40.9	-3.9	17.0	54
2933.000000	37.9	100.0	V	0.0	36.1	1.8	16.1	54

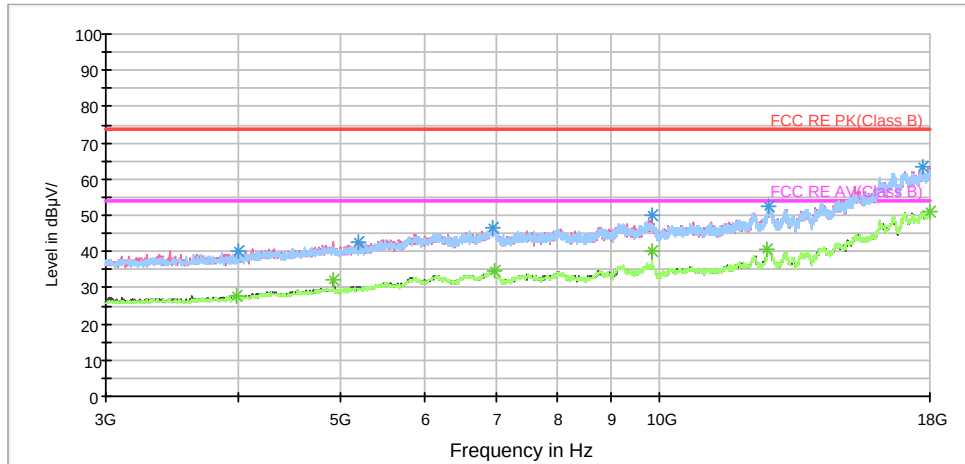
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 1G-3GHz PK+AV



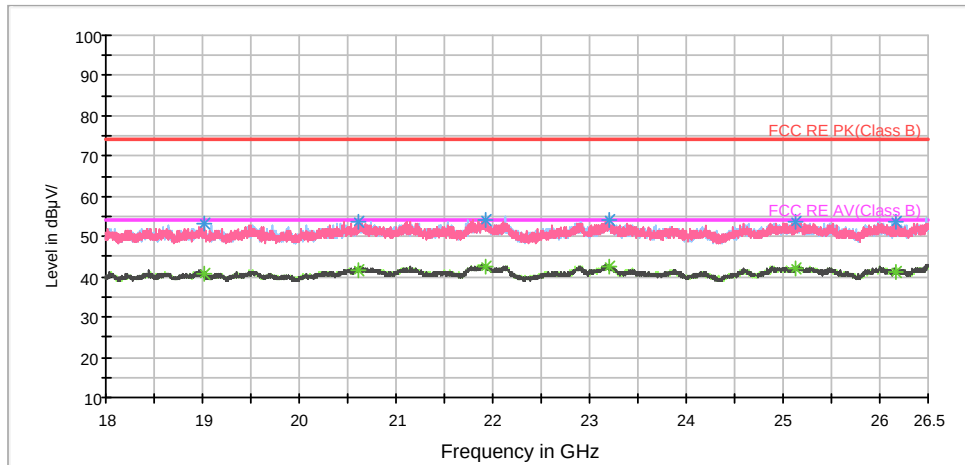
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11g CH12

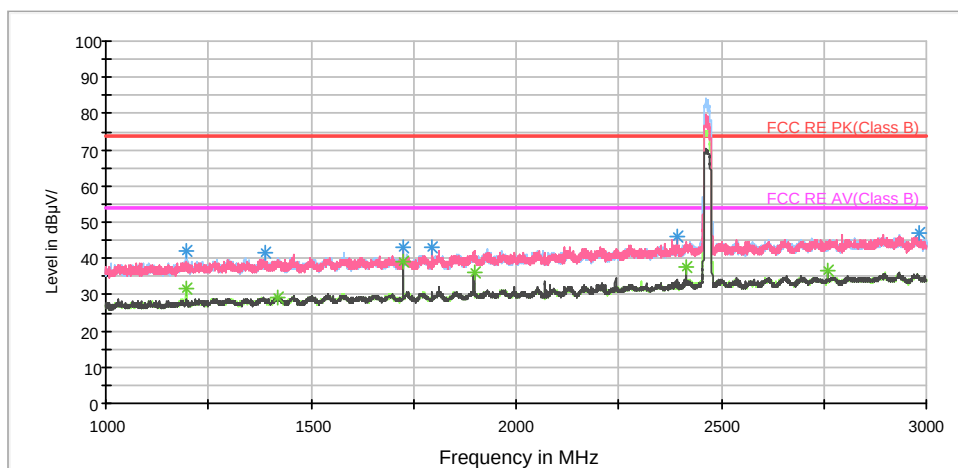
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.750000	42.2	102.0	H	100.0	51.2	-9.0	31.8	74
1388.000000	41.4	202.0	H	45.0	49.4	-8.0	32.6	74
1724.500000	42.9	202.0	V	66.0	49.6	-6.7	31.1	74
1795.000000	42.9	202.0	V	88.0	49.0	-6.1	31.1	74
2393.750000	46.1	202.0	V	13.0	49.6	-3.5	27.9	74
2983.500000	46.8	102.0	V	187.0	47.8	-1.0	27.2	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)
1195.250000	31.6	102.0	H	100.0	31.6	-8.9	22.4	54
1418.000000	29.3	202.0	V	0.0	37.3	-8.0	24.7	54
1725.000000	39.1	202.0	V	66.0	45.8	-6.7	14.9	54
1897.500000	36.0	102.0	V	187.0	41.8	-5.8	18.0	54
2415.250000	37.4	102.0	V	0.0	40.2	-2.8	16.6	54
2760.250000	36.5	202.0	V	214.0	38.4	-1.9	17.5	54

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

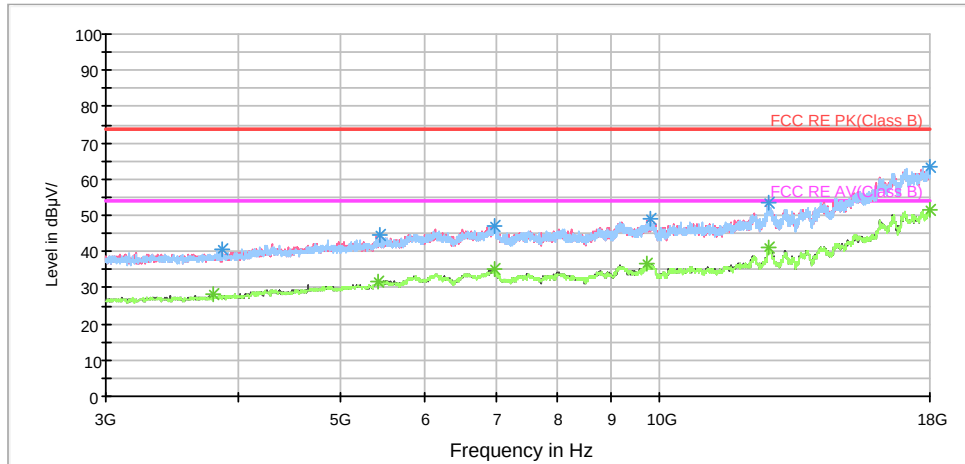
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

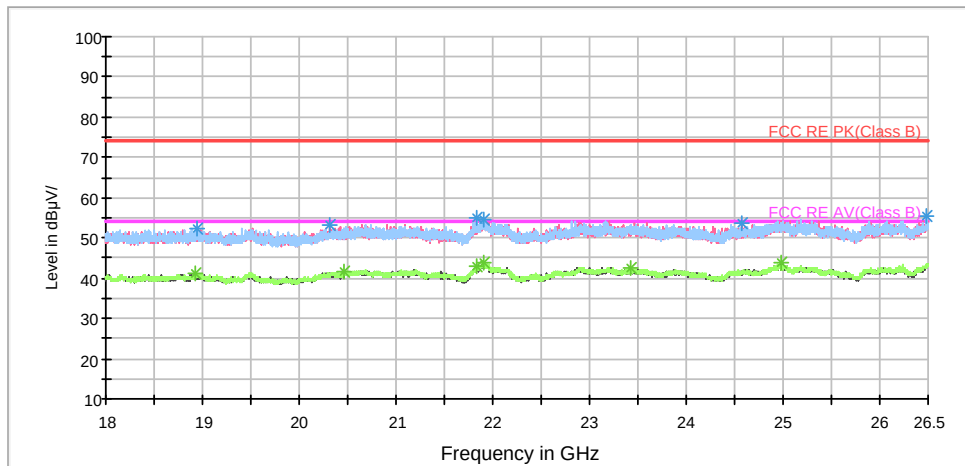
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11g CH13

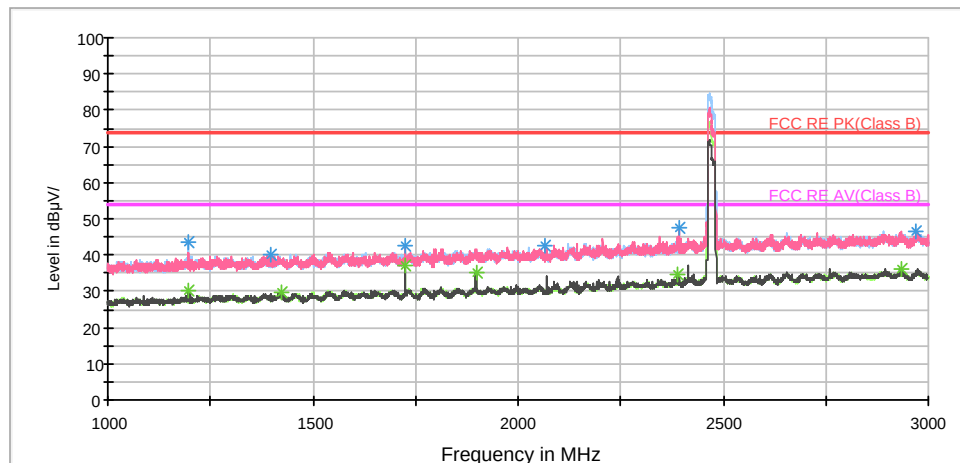
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.250000	43.6	102.0	H	76.0	43.6	-9.0	30.4	74
1398.000000	40.3	202.0	V	47.0	48.4	-8.1	33.7	74
1724.750000	42.6	202.0	V	47.0	49.3	-6.7	31.4	74
2065.500000	42.4	202.0	V	329.0	47.7	-5.3	31.6	74
2391.250000	47.7	202.0	V	21.0	51.3	-3.6	26.3	74
2968.250000	46.6	202.0	V	285.0	47.7	-1.1	27.4	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.000000	30.0	202.0	V	174.0	30.0	-9.0	24.0	54
1423.250000	29.6	102.0	V	3.0	37.6	-8.0	24.4	54
1725.000000	37.2	202.0	V	47.0	43.9	-6.7	16.8	54
1897.500000	35.4	102.0	V	37.0	41.2	-5.8	18.6	54
2386.750000	34.4	202.0	V	118.0	38.0	-3.6	19.6	54
2932.750000	36.4	102.0	V	0.0	37.8	-1.4	17.6	54

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

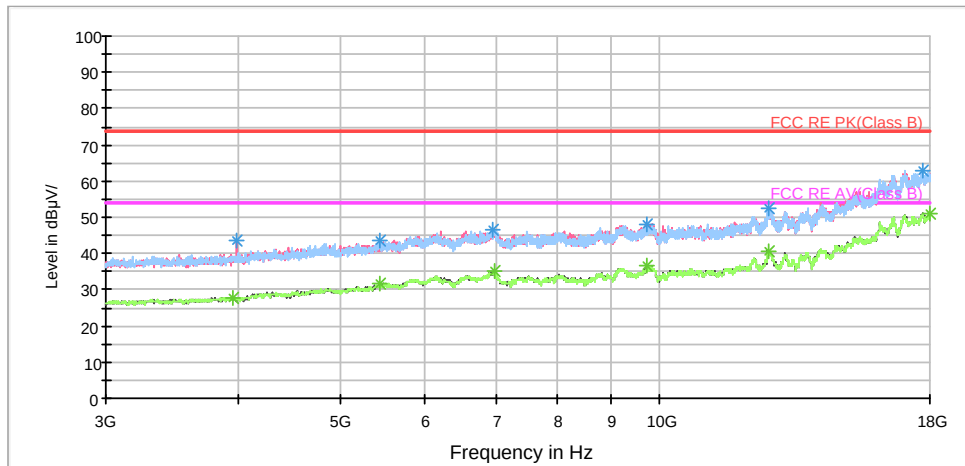
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

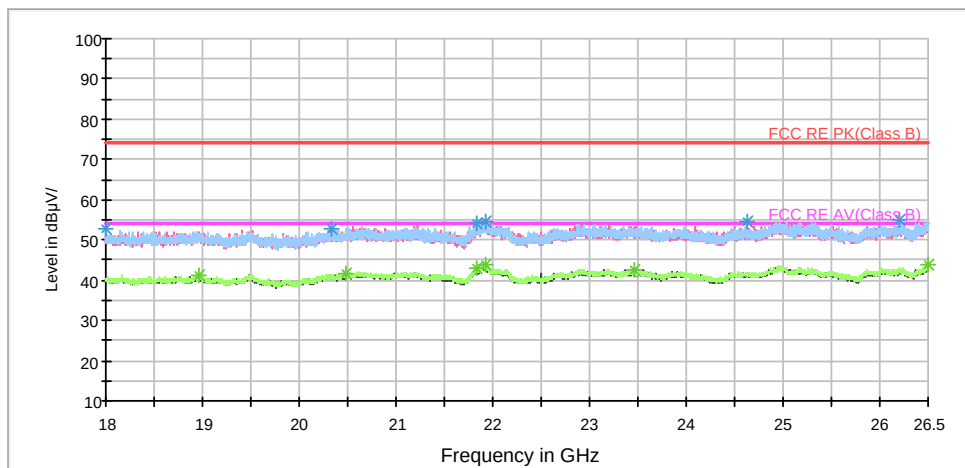
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



802.11n (HT20) CH1

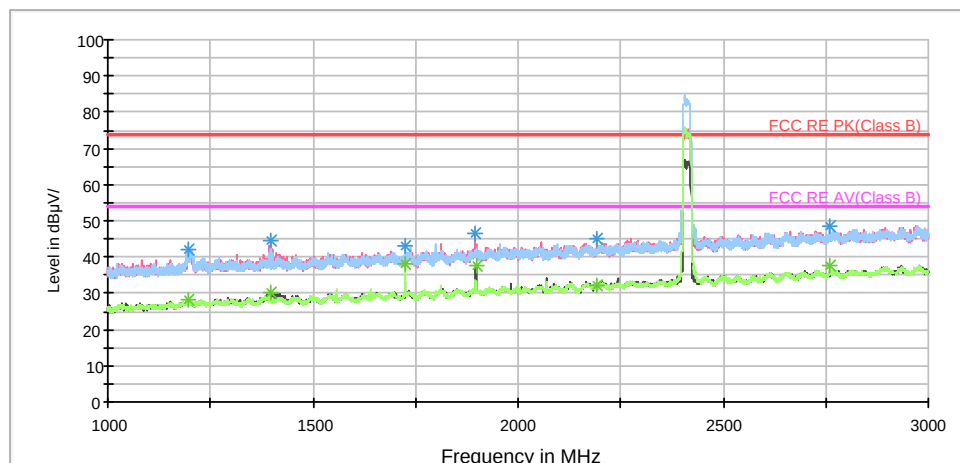
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.500000	42.2	100.0	H	298.0	50.4	-8.2	31.8	74
1399.500000	44.6	100.0	V	261.0	51.7	-7.1	29.4	74
1725.000000	43.3	100.0	H	240.0	48.3	-5.0	30.7	74
1897.000000	46.6	100.0	V	0.0	50.5	-3.9	27.4	74
2192.250000	44.9	100.0	V	350.0	47.0	-2.1	29.1	74
2760.250000	48.6	100.0	H	223.0	47.7	0.9	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)
1197.750000	28.4	100.0	H	240.0	36.6	-8.2	25.6	54
1399.500000	30.3	100.0	V	261.0	37.4	-7.1	23.7	54
1725.000000	38.2	100.0	H	240.0	43.2	-5.0	15.8	54
1897.500000	37.6	100.0	V	0.0	41.5	-3.9	16.4	54
2192.250000	32.3	100.0	V	350.0	34.4	-2.1	21.7	54
2760.000000	37.9	100.0	H	223.0	37.0	0.9	16.1	54

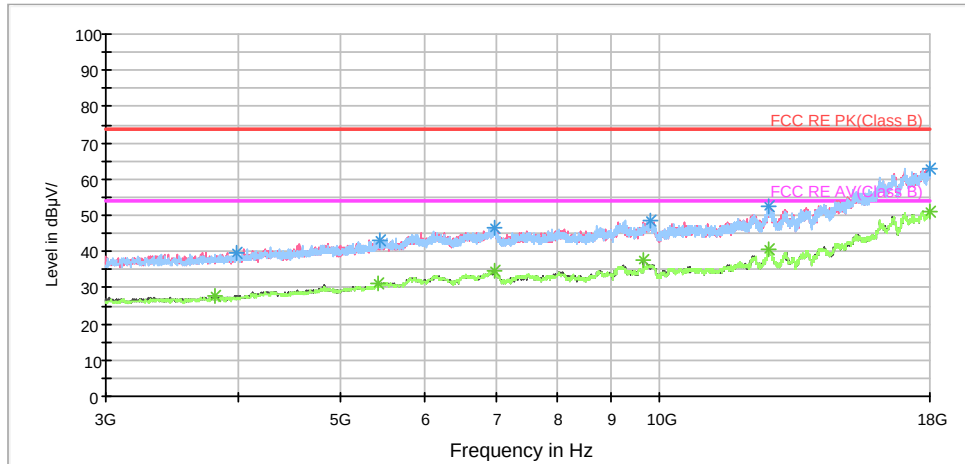
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 1G-3GHz PK+AV



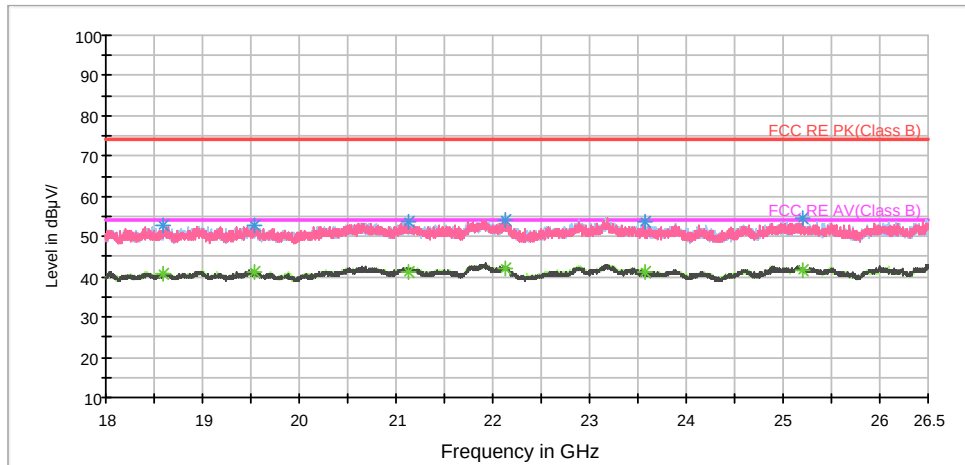
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11n (HT20) CH6

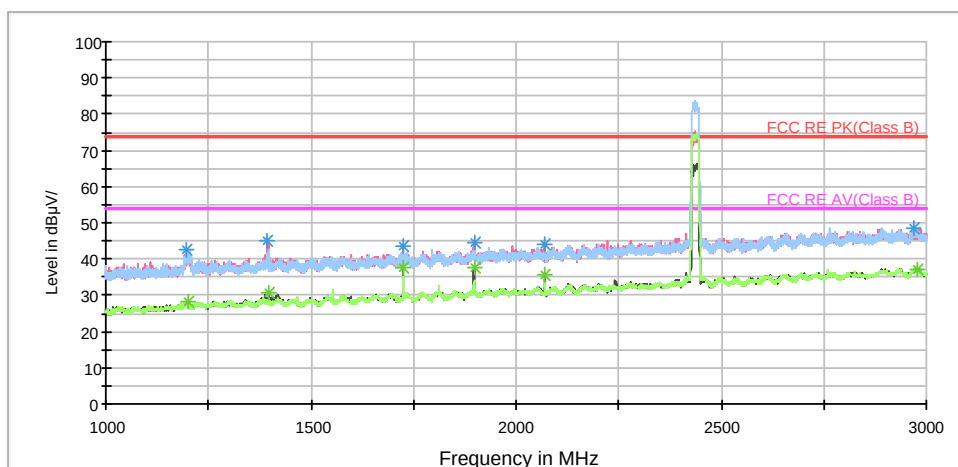
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.500000	42.4	101.0	V	289.0	50.6	-8.2	31.6	74
1394.500000	45.1	101.0	V	271.0	52.2	-7.1	28.9	74
1725.000000	43.4	101.0	V	255.0	48.4	-5.0	30.6	74
1897.750000	44.5	101.0	V	0.0	48.3	-3.8	29.5	74
2070.250000	44.0	101.0	V	32.0	47.1	-3.1	30.0	74
2971.000000	48.8	101.0	H	289.0	46.6	2.2	25.2	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)
1198.750000	28.4	101.0	V	281.0	36.6	-8.2	25.6	54
1399.000000	30.7	101.0	V	255.0	37.8	-7.1	23.3	54
1725.000000	37.5	101.0	V	255.0	42.5	-5.0	16.5	54
1897.750000	37.6	101.0	V	0.0	41.4	-3.8	16.4	54
2070.250000	35.5	101.0	V	32.0	38.6	-3.1	18.5	54
2980.000000	37.3	101.0	V	0.0	35.1	2.2	16.7	54

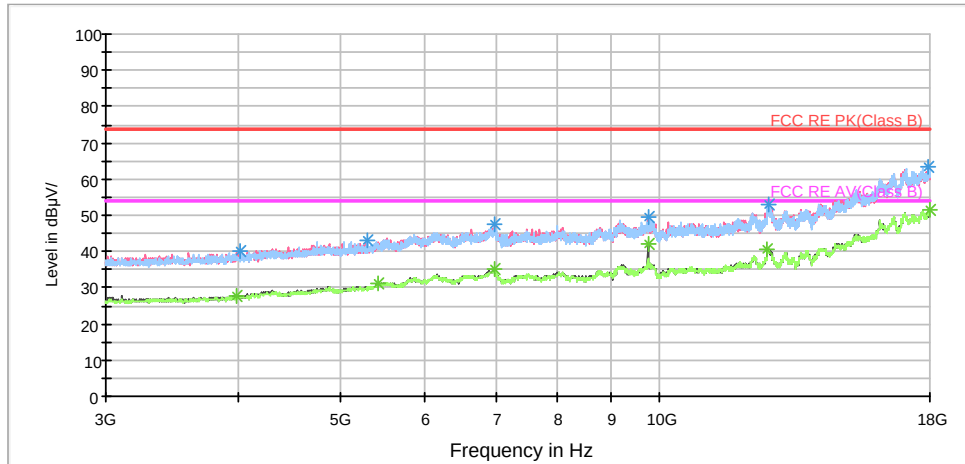
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 1G-3GHz PK+AV



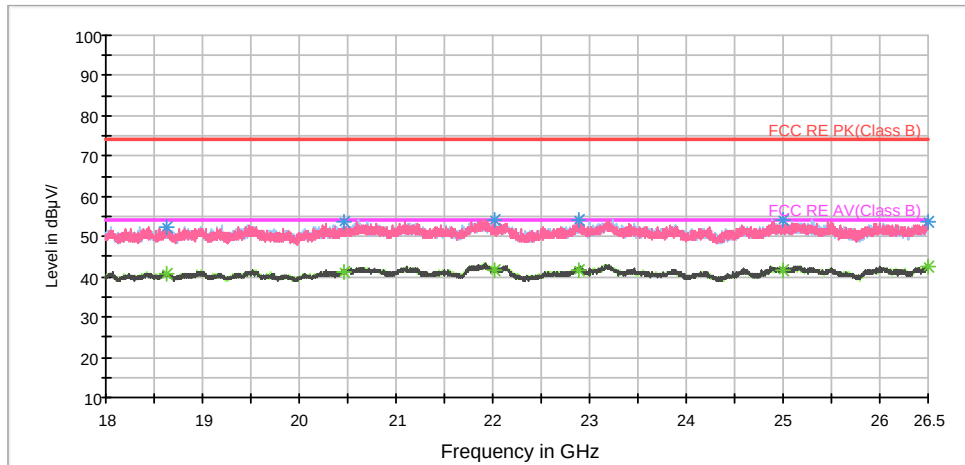
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



802.11n (HT20) CH11

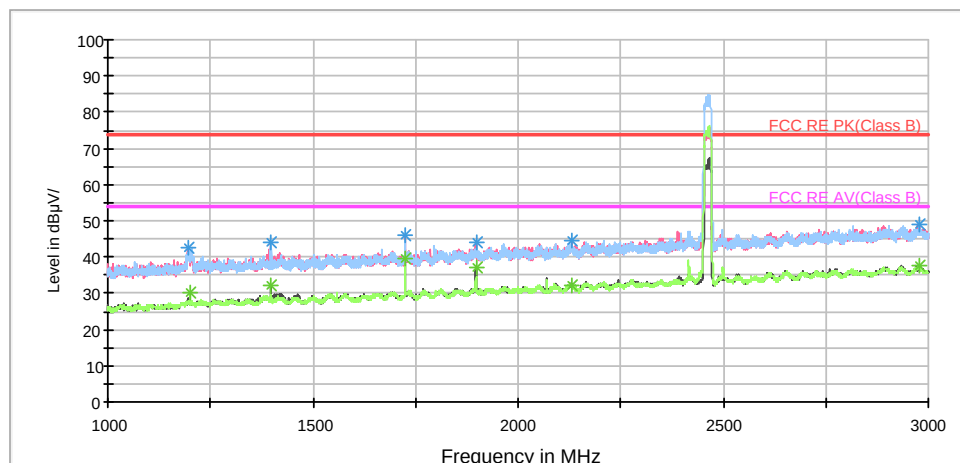
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1194.500000	42.7	100.0	V	279.0	50.9	-8.2	31.3	74
1398.500000	43.9	100.0	V	261.0	51.0	-7.1	30.1	74
1724.750000	46.3	100.0	V	252.0	51.3	-5.0	27.7	74
1897.500000	44.3	100.0	V	0.0	48.2	-3.9	29.7	74
2130.250000	44.7	100.0	V	351.0	47.1	-2.4	29.3	74
2980.250000	49.2	100.0	V	91.0	47.0	2.2	24.8	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)
1199.500000	30.1	100.0	H	284.0	38.3	-8.2	23.9	54
1398.500000	32.4	100.0	V	261.0	39.5	-7.1	21.6	54
1724.750000	39.5	100.0	V	252.0	44.5	-5.0	14.5	54
1897.500000	37.2	100.0	V	0.0	41.1	-3.9	16.8	54
2130.250000	32.4	100.0	V	351.0	34.8	-2.4	21.6	54
2977.750000	37.8	100.0	H	57.0	35.6	2.2	16.2	54

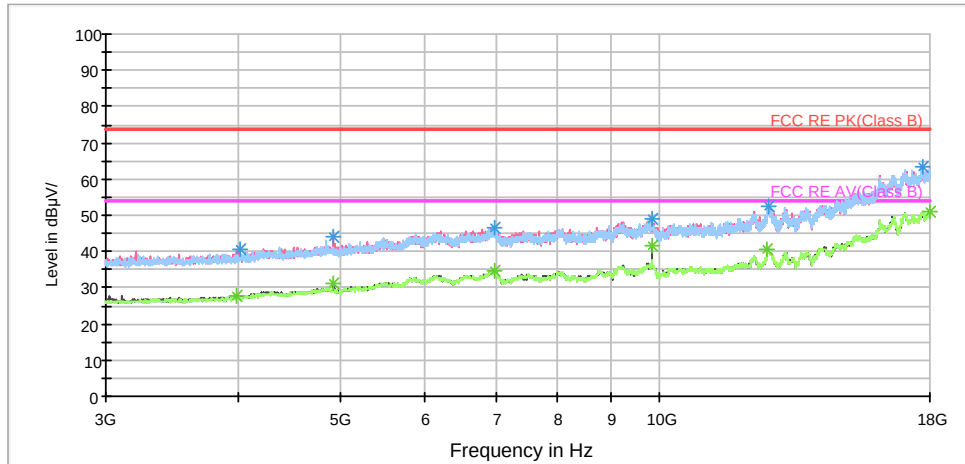
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 1G-3GHz PK+AV



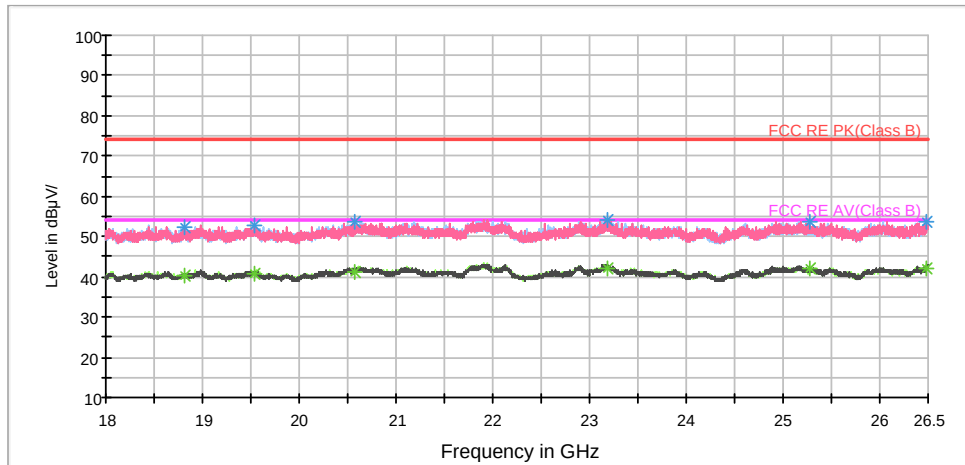
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11n (HT20) CH12

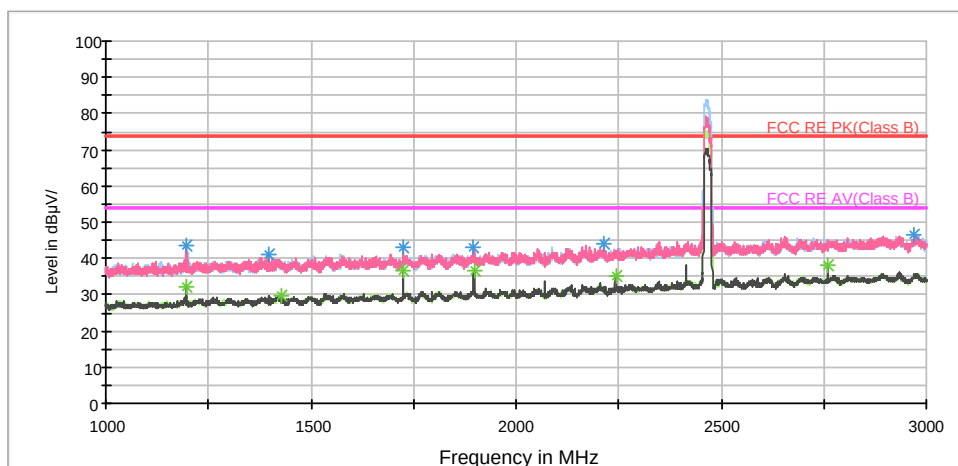
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.000000	43.7	202.0	H	37.0	43.7	-9.0	30.3	74
1396.000000	41.0	202.0	V	111.0	49.1	-8.1	33.0	74
1724.750000	43.3	202.0	V	146.0	50.0	-6.7	30.7	74
1897.250000	43.3	202.0	V	12.0	49.2	-5.9	30.7	74
2214.500000	44.3	202.0	V	77.0	48.8	-4.5	29.7	74
2968.500000	46.6	102.0	H	146.0	47.7	-1.1	27.4	74

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

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1195.500000	32.3	202.0	V	40.0	32.3	-8.9	21.7	54
1426.250000	29.5	202.0	H	93.0	37.5	-8.0	24.5	54
1724.750000	36.5	202.0	V	146.0	43.2	-6.7	17.5	54
1897.750000	36.9	202.0	V	12.0	42.7	-5.8	17.1	54
2242.500000	35.0	102.0	V	31.0	39.7	-4.7	19.0	54
2760.250000	38.3	202.0	V	0.0	40.2	-1.9	15.7	54

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

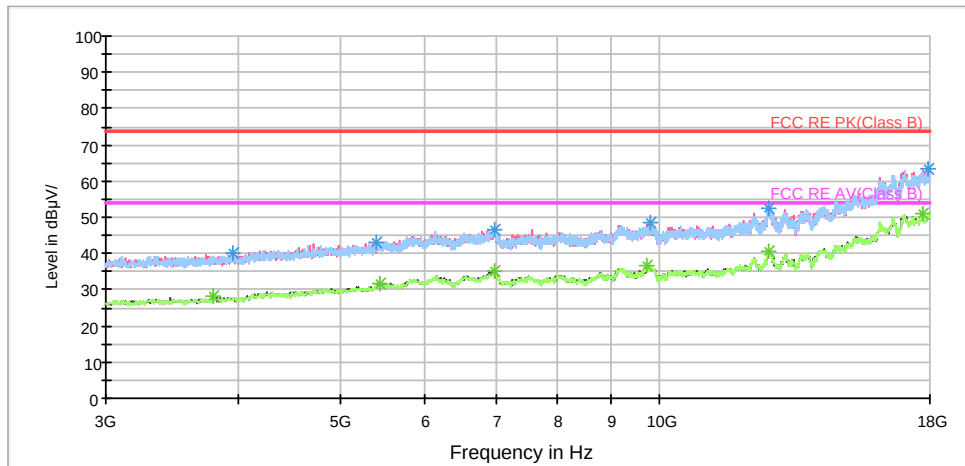
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

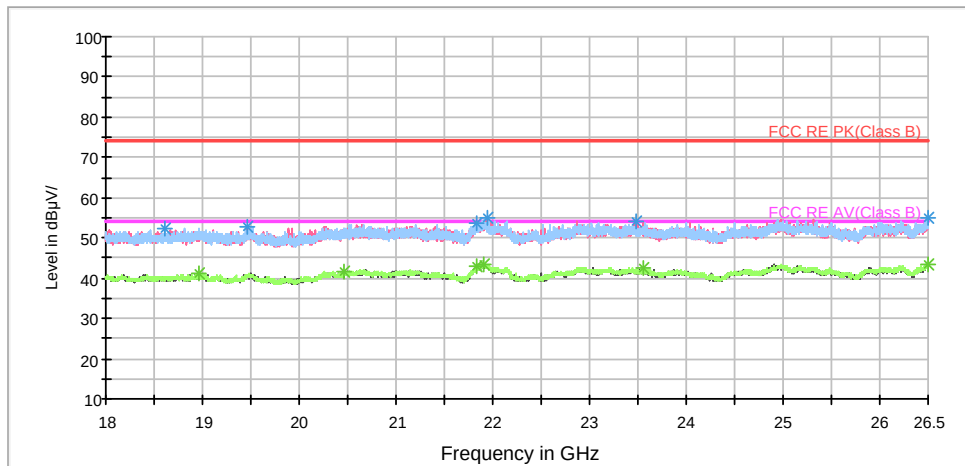
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

802.11n (HT20) CH13

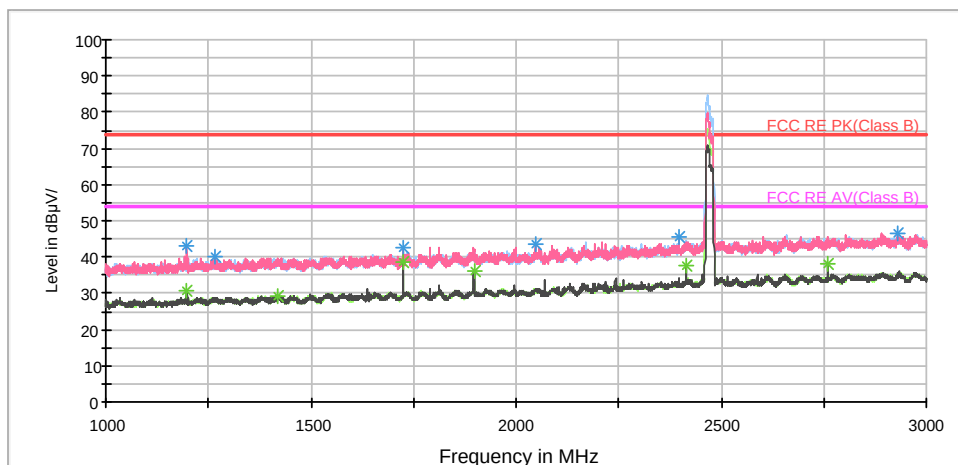
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.500000	42.9	202.0	V	37.0	42.9	-9.0	31.1	74
1264.750000	40.0	202.0	V	256.0	48.5	-8.5	34.0	74
1724.750000	42.7	202.0	V	50.0	49.4	-6.7	31.3	74
2046.000000	43.3	202.0	V	37.0	48.7	-5.4	30.7	74
2396.250000	45.7	202.0	V	24.0	49.2	-3.5	28.3	74
2930.250000	46.5	102.0	V	104.0	47.9	-1.4	27.5	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)
1198.500000	30.8	202.0	V	37.0	30.8	-9.0	23.2	54
1419.750000	29.4	202.0	V	312.0	37.3	-7.9	24.6	54
1725.000000	38.7	202.0	V	50.0	45.4	-6.7	15.3	54
1897.500000	36.1	102.0	V	225.0	41.9	-5.8	17.9	54
2415.000000	37.4	102.0	V	0.0	40.2	-2.8	16.6	54
2760.250000	38.2	202.0	V	86.0	40.1	-1.9	15.8	54

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

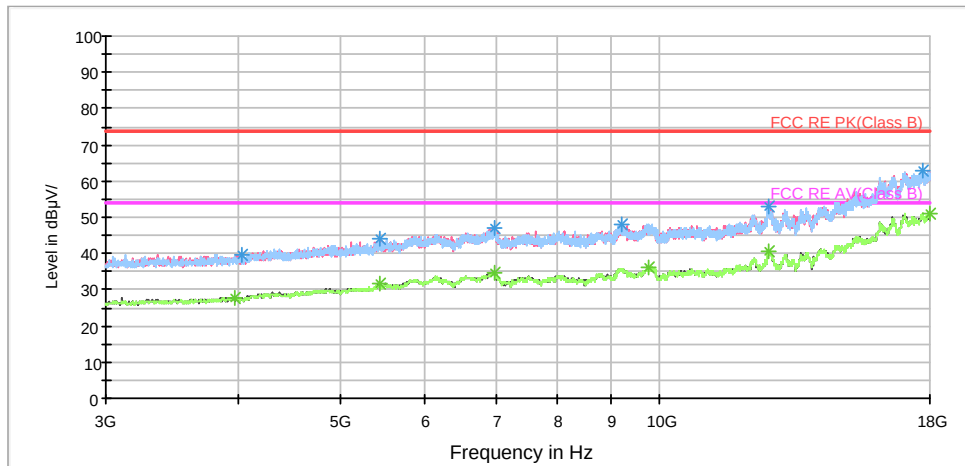
RE 1G-3GHz PK+AV



Note: The signal beyond the limit is carrier.

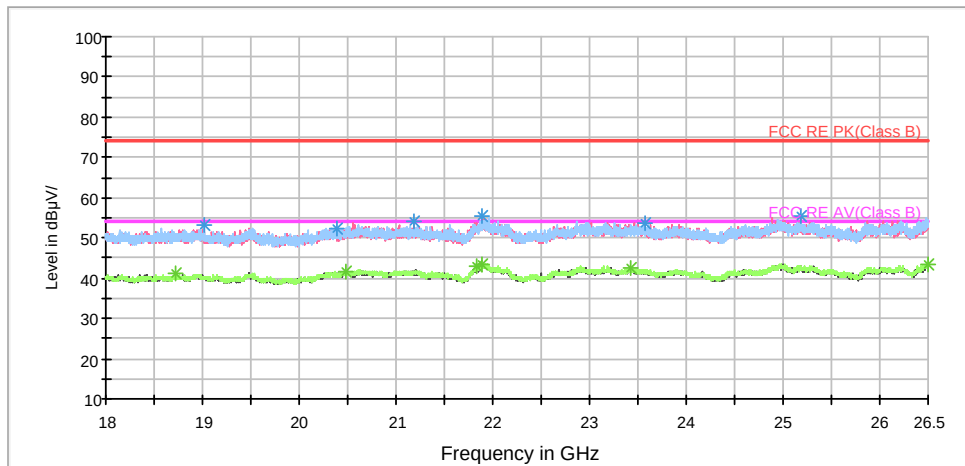
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

BLE-Channel 0

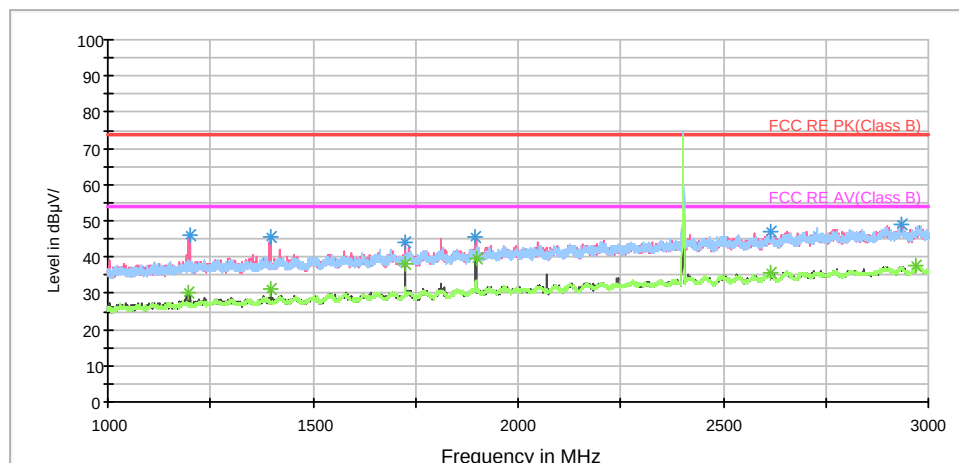
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.750000	46.1	101.0	V	100.0	54.3	-8.2	27.9	74
1397.000000	45.6	101.0	V	0.0	52.7	-7.1	28.4	74
1725.250000	43.9	101.0	V	0.0	48.9	-5.0	30.1	74
1897.250000	45.5	101.0	V	0.0	49.4	-3.9	28.5	74
2614.000000	46.8	101.0	H	1.0	46.7	0.1	27.2	74
2933.000000	48.8	101.0	V	82.0	47.0	1.8	25.2	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)
1197.500000	30.1	101.0	V	100.0	38.3	-8.2	23.9	54
1395.750000	30.9	101.0	V	0.0	38.0	-7.1	23.1	54
1725.000000	38.3	101.0	V	0.0	43.3	-5.0	15.7	54
1897.500000	39.8	101.0	V	0.0	43.7	-3.9	14.2	54
2615.000000	35.4	101.0	V	289.0	35.3	0.1	18.6	54
2971.000000	37.5	101.0	H	1.0	35.3	2.2	16.5	54

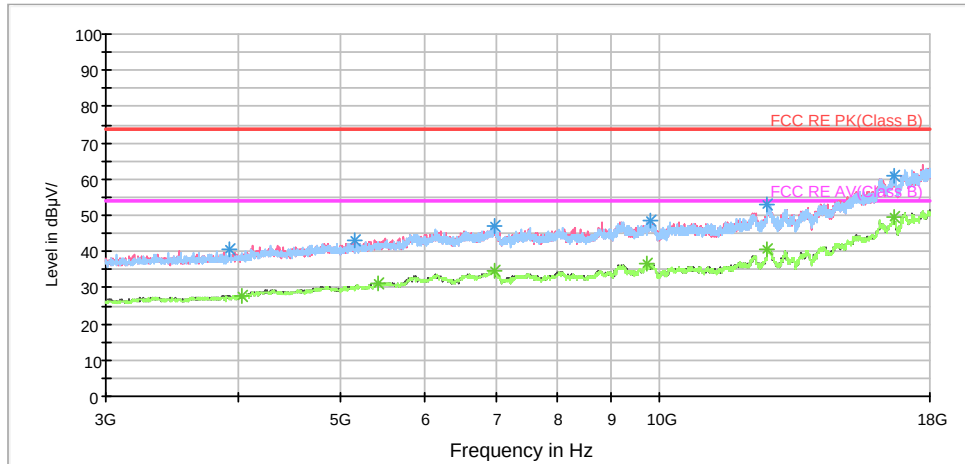
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 1G-3GHz PK+AV



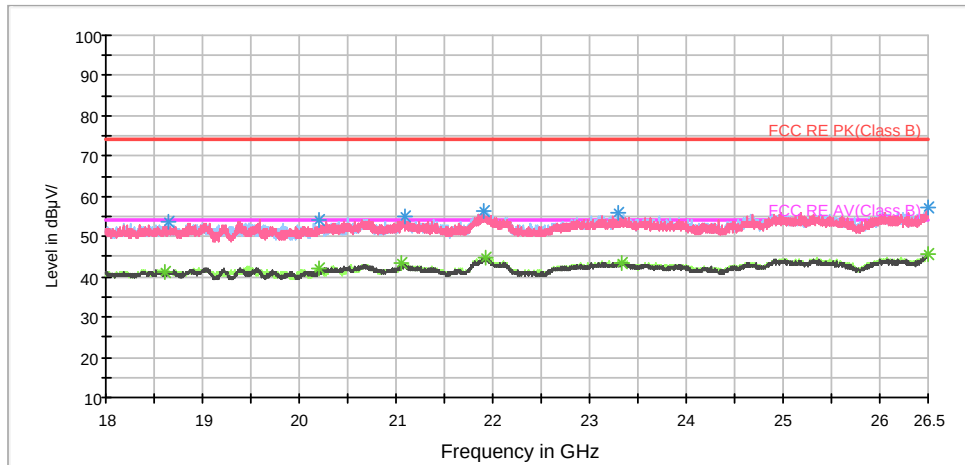
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

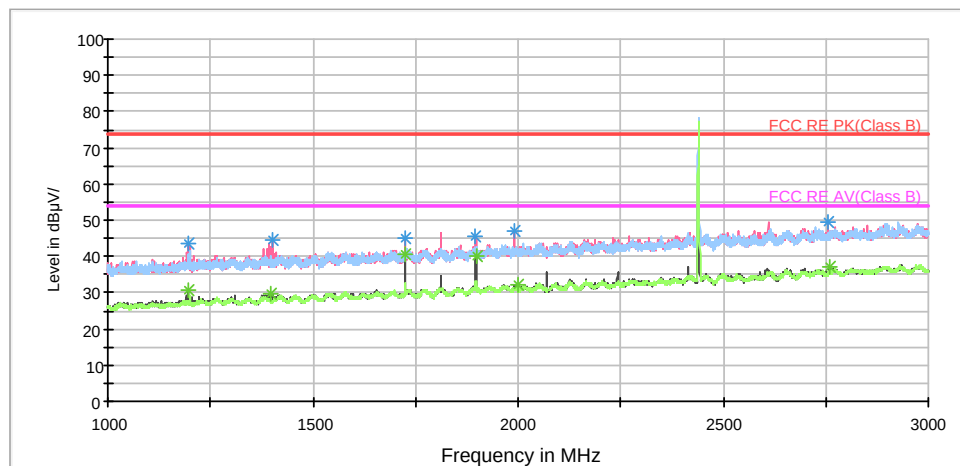
BLE-Channel 19

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.250000	43.4	202.0	V	0.0	51.6	-8.2	30.6	74
1400.000000	44.4	102.0	V	98.0	51.5	-7.1	29.6	74
1725.000000	45.1	102.0	V	334.0	50.1	-5.0	28.9	74
1897.250000	45.3	102.0	V	0.0	49.2	-3.9	28.7	74
1991.500000	46.9	202.0	V	280.0	50.2	-3.3	27.1	74
2755.000000	49.6	202.0	V	280.0	48.7	0.9	24.4	74

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

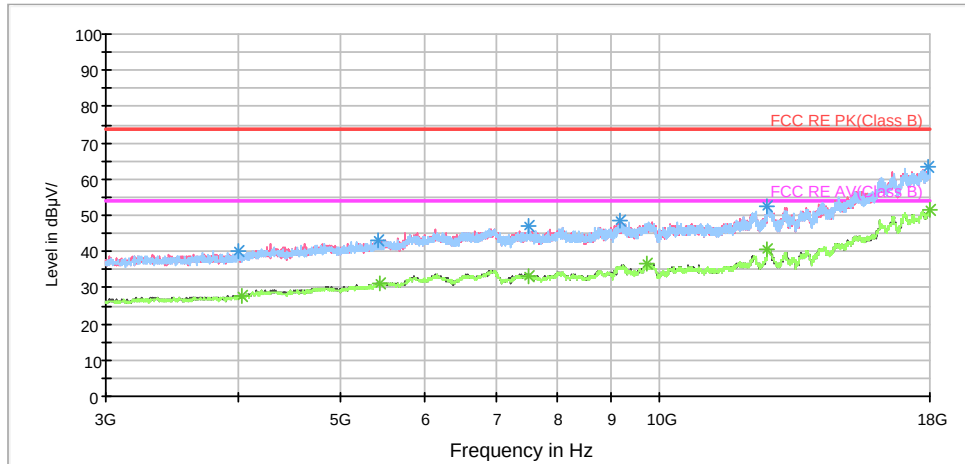
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.500000	30.8	102.0	V	116.0	39.0	-8.2	23.2	54
1396.250000	29.9	102.0	V	0.0	37.0	-7.1	24.1	54
1725.000000	40.4	102.0	V	334.0	45.4	-5.0	13.6	54
1897.500000	40.0	102.0	V	0.0	43.9	-3.9	14.0	54
1998.000000	32.0	202.0	V	145.0	35.4	-3.4	22.0	54
2760.750000	37.0	202.0	V	262.0	36.1	0.9	17.0	54

RE 1G-3GHz PK+AV



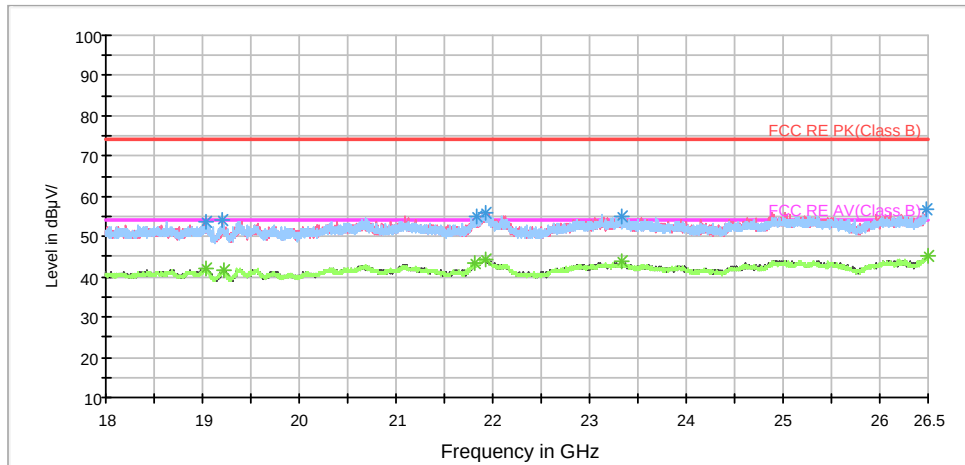
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

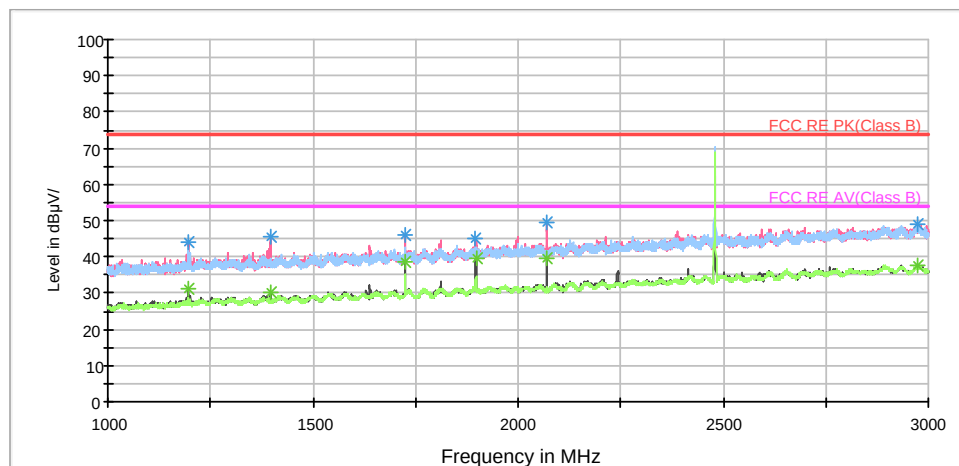
BLE-Channel 39

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.500000	44.3	102.0	V	279.0	52.5	-8.2	29.7	74
1396.000000	45.4	102.0	V	91.0	52.5	-7.1	28.6	74
1724.750000	46.0	102.0	V	0.0	51.0	-5.0	28.0	74
1897.250000	45.1	102.0	V	0.0	49.0	-3.9	28.9	74
2069.750000	49.4	102.0	V	0.0	52.5	-3.1	24.6	74
2972.250000	48.8	202.0	H	165.0	46.6	2.2	25.2	74

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

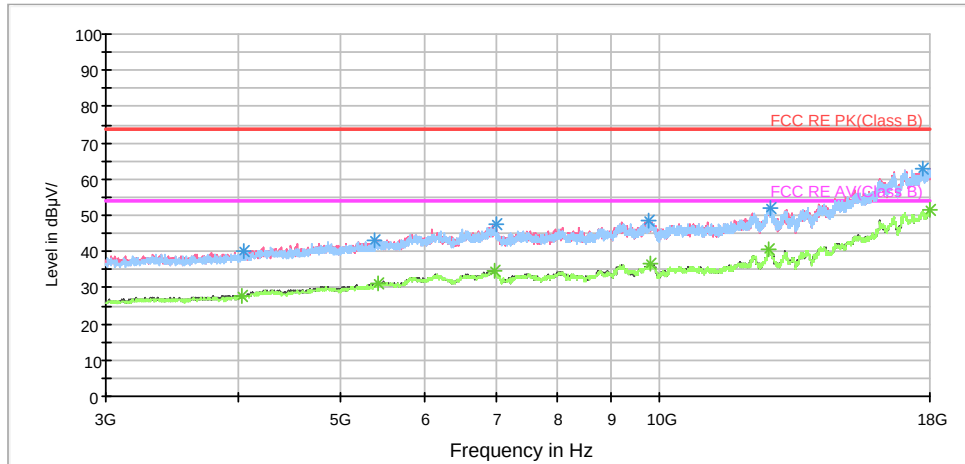
Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.000000	31.0	102.0	V	100.0	39.2	-8.2	23.0	54
1396.750000	30.2	102.0	V	91.0	37.3	-7.1	23.8	54
1725.000000	38.8	102.0	V	0.0	43.8	-5.0	15.2	54
1897.500000	39.8	102.0	V	0.0	43.7	-3.9	14.2	54
2069.750000	39.5	102.0	V	0.0	42.6	-3.1	14.5	54
2973.750000	37.8	102.0	V	146.0	35.6	2.2	16.2	54

RE 1G-3GHz PK+AV



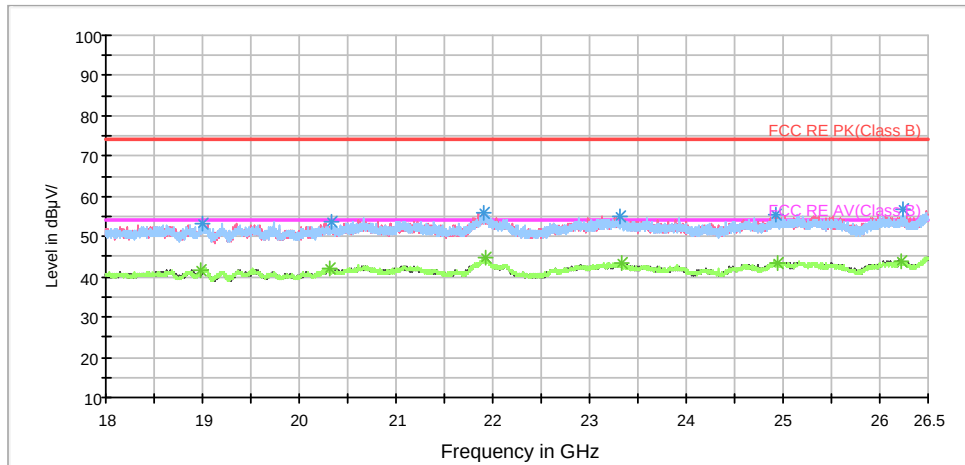
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

5.8. Conducted Emission

Ambient condition

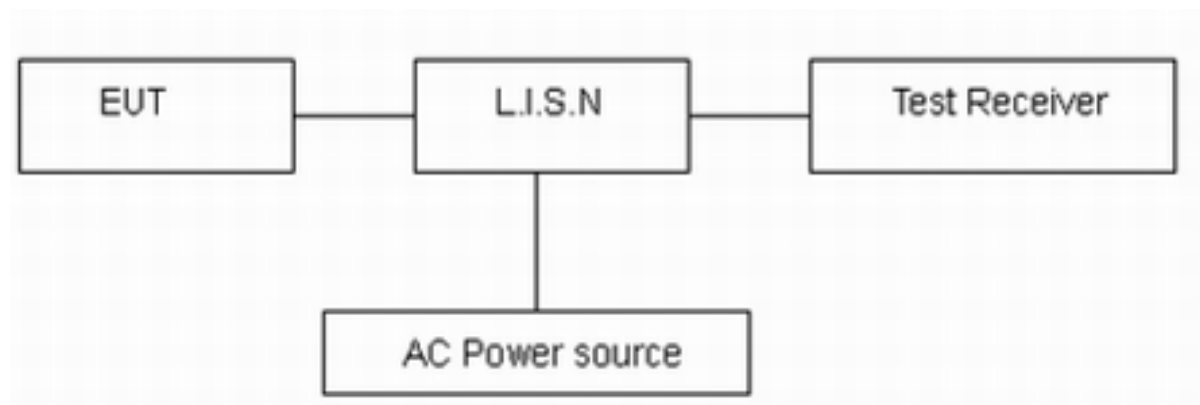
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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

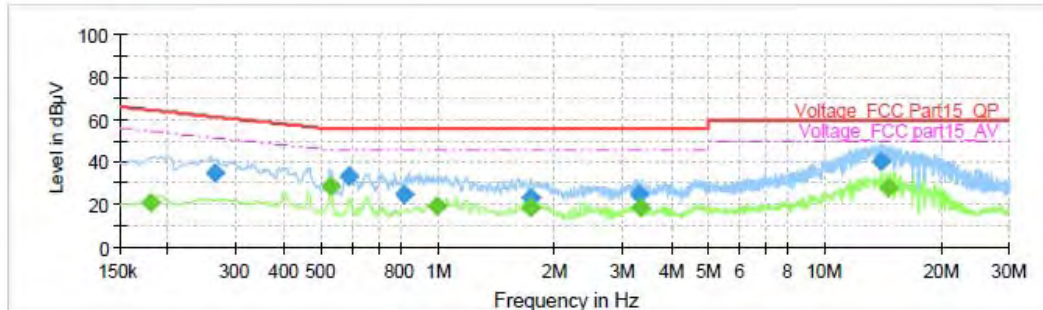
*: Decreases with the logarithm of the frequency.

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:

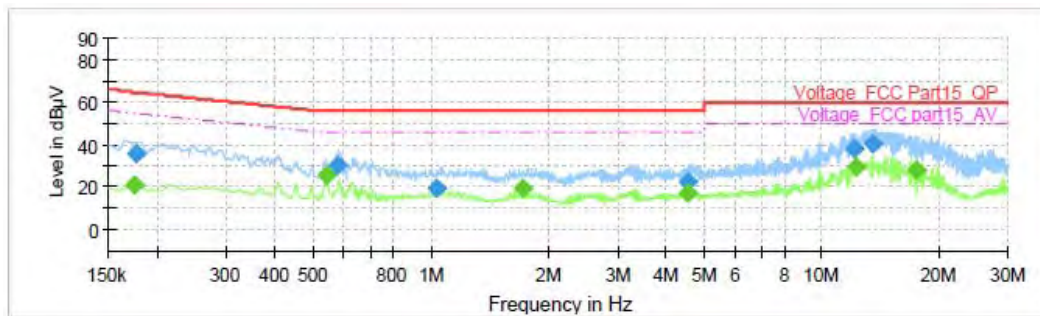
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11b, Channel 11 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.181500	---	20.65	54.42	33.77	1000.0	9.000	L1	ON	19.2
0.264750	34.81	---	61.28	26.47	1000.0	9.000	L1	ON	19.1
0.528000	---	28.93	46.00	17.07	1000.0	9.000	L1	ON	19.2
0.586500	33.56	---	56.00	22.44	1000.0	9.000	L1	ON	19.3
0.813750	24.70	---	56.00	31.30	1000.0	9.000	L1	ON	19.2
0.991500	---	19.25	46.00	26.75	1000.0	9.000	L1	ON	19.2
1.734000	---	18.77	46.00	27.23	1000.0	9.000	L1	ON	19.2
1.736250	23.18	---	56.00	32.82	1000.0	9.000	L1	ON	19.2
3.315750	24.59	---	56.00	31.41	1000.0	9.000	L1	ON	19.1
3.324750	---	18.33	46.00	27.67	1000.0	9.000	L1	ON	19.1
13.911000	40.43	---	60.00	19.57	1000.0	9.000	L1	ON	19.5
14.628750	---	28.15	50.00	21.85	1000.0	9.000	L1	ON	19.5

WIFI 2.4G L-0.15-30MHZ



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.174750	---	21.20	54.73	33.53	1000.0	9.000	N	ON	19.2
0.177000	36.05	---	64.63	28.58	1000.0	9.000	N	ON	19.2
0.539250	---	25.30	46.00	20.70	1000.0	9.000	N	ON	19.2
0.577500	30.11	---	56.00	25.89	1000.0	9.000	N	ON	19.3
1.029750	19.26	---	56.00	36.74	1000.0	9.000	N	ON	19.2
1.725000	---	19.52	46.00	26.48	1000.0	9.000	N	ON	19.2
4.528500	22.17	---	56.00	33.83	1000.0	9.000	N	ON	19.1
4.528500	---	17.23	46.00	28.77	1000.0	9.000	N	ON	19.1
12.059250	37.69	---	60.00	22.31	1000.0	9.000	N	ON	19.4
12.187500	---	29.62	50.00	20.38	1000.0	9.000	N	ON	19.4
13.506000	40.59	---	60.00	19.41	1000.0	9.000	N	ON	19.5
17.493000	---	28.22	50.00	21.78	1000.0	9.000	N	ON	19.5

WIFI 2.4G N-0.15-30MHZ



6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Time
Spectrum Analyzer	R&S	FSV30	100815	2016-12-16	2017-12-15
EMI Test Receiver	R&S	ESCI	100948	2017-05-20	2018-05-19
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-201	2014-12-06	2017-12-05
Double Ridged Waveguide Horn Antenna	R&S	HF907	100126	2014-12-06	2017-12-05
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2017-02-18	2020-02-17
Standard Gain Horn	ETS-Lindgren	3160-09	00102644	2015-01-30	2018-01-29
EMI Test Receiver	R&S	ESCS30	100138	2016-12-16	2017-12-15
LISN	R&S	ENV216	101171	2016-12-16	2019-12-15
Spectrum Analyzer	Agilent	N9010A	MY47191109	2017-05-20	2018-05-19
RF Cable	Agilent	SMA 15cm	0001	2017-08-04	2018-02-03

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

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Front Side



Back Side

For Single Screen Mode



Front Side

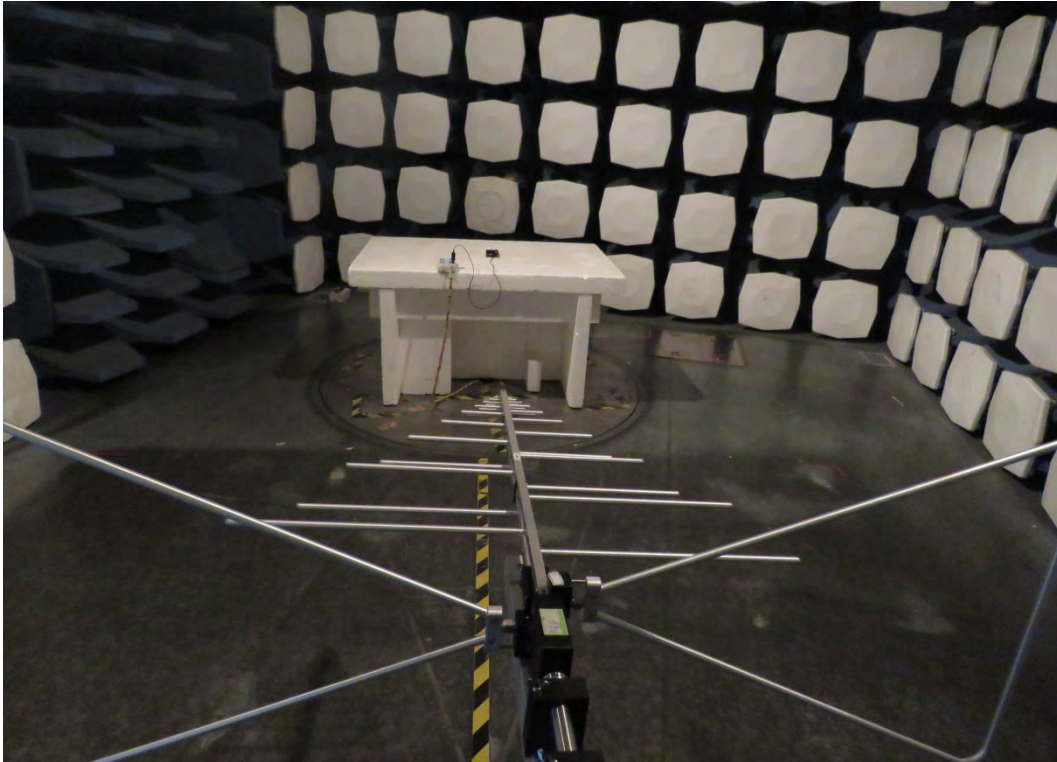


Back Side

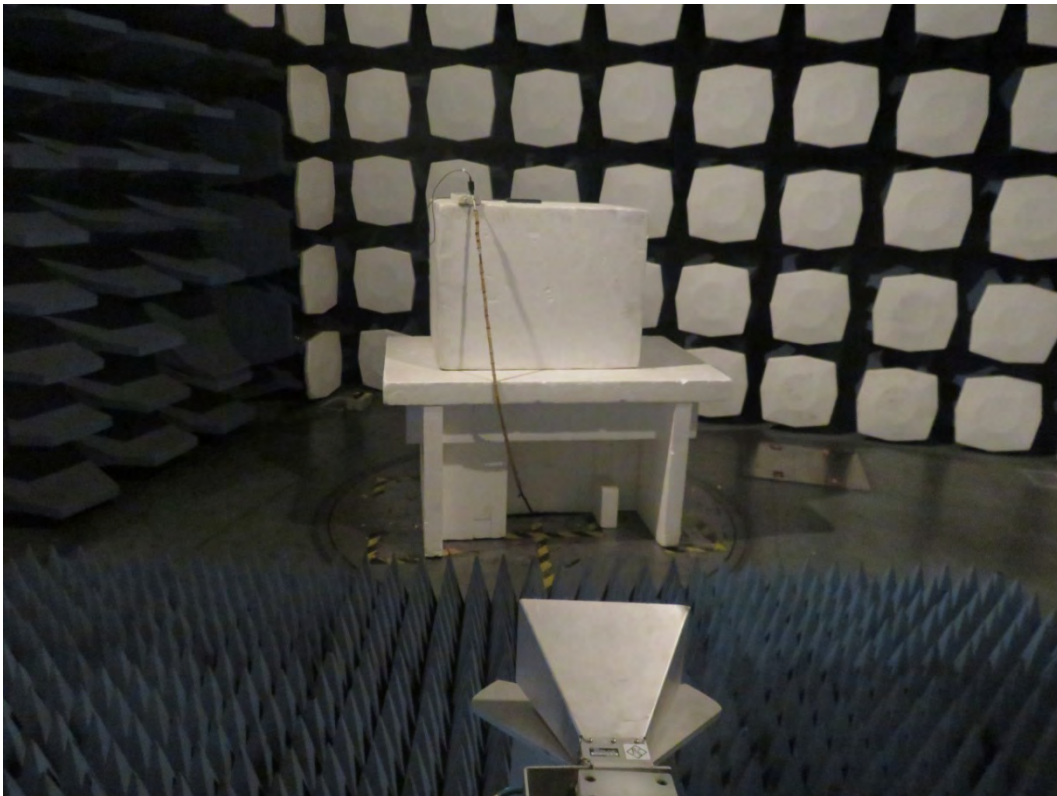
For Double Screen Mode

Picture 1 EUT

A.2 Test Setup



Below 1GHz



Above 1GHz

Picture 2 Radiated Emission Test Setup



Picture 3 Conducted Emission Test Setup