



RF TEST REPORT

Applicant Huawei Technologies Co., Ltd.
FCC ID QISBAH2-W19
Product Tablet
Model BAH2-W19
Report No. R1901H0001-R1
Issue Date January 31, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2018)**. 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 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	Unwanted Emissions	15.247(d),15.205,15.209	PASS
7	Conducted Emissions	15.207	PASS
Date of Testing: June 27, 2018~ July 3, 2018 and January 9, 2019~ January 15, 2019			

BAH2-W19 (Report No: R1901H0001-R1) add adapter 5 and USB Cables 7~9 on base of BAH2-W19 (Report No: R1806H0070-R1V1). There is only tested Unwanted Emission and Conducted Emission with adapter 5 and USB Cables 7~9, only the worst case (USB cable 8) will be add in this report.

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.

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
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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	Huawei Technologies Co., Ltd.
Applicant address	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.China.
Manufacturer	Huawei Technologies Co., Ltd.
Manufacturer address	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.China.

General information

EUT Description	
Model	BAH2-W19
SN:	18052675749
Hardware Version	SH0BAH2LM
Software Version	BAH2-W19 8.0.0.161(C605)
Power Supply	Battery/AC adapter
Antenna Type	Internal Antenna
Antenna Connector	A permanently attached antenna
Antenna Gain	0 dBi
Test Mode	Bluetooth V4.2 LE 802.11b 802.11g, 802.11n(HT20/HT40);
Modulation Type	BLE :GFSK 802.11b: DSSS; 802.11g/n(HT20/HT40): OFDM
Max. Conducted Power	Wi-Fi 2.4G :15.05dBm BLE : 9.59 dBm
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz 802.11n(HT40): 2422 ~ 2452 MHz BLE: 2402 ~2480 MHz
EUT Accessory	
Adapter 1	Brand: HUAWEI Manufacturer: Salcomp (Shenzhen) Co., Ltd. Model: HW-059200UHQ
Adapter 2	Brand: HUAWEI Manufacturer: HUIZHOU BYD ELECTRONIC CO.,LTD. Model: HW-059200UHQ

Adapter 3	Brand: HUAWEI Manufacturer: Salcomp (Shenzhen) Co., Ltd. Model: HW-090200UH0
Adapter 4	Brand: HUAWEI Manufacturer: Shenzhen Kuntkey Electric Co., Ltd. Model: HW-090200UH0
Adapter 5	Brand: HUAWEI Manufacturer: HUIZHOU BYD ELECTRONIC CO.,LTD Model: HW-090200AH0
Battery 1	Brand: HUAWEI Manufacturer: SCUD (Fujian) Electronics Co., Ltd. Model: HB2994I8ECW
Battery 2	Brand: HUAWEI Manufacturer: SUNWODA Electronic Co., Ltd Model: HB2994I8ECW
Battery 3	Brand: HUAWEI Manufacturer: Huizhou Desay Battery Co., Ltd Model: HB2994I8ECW
USB Cable 1	Manufacturer: Luxshare Precision Industry Co., Ltd Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m
USB Cable 2	Manufacturer: NingBo Broad Telecommunication Co.,Ltd. Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m
USB Cable 3	Manufacturer: HUI ZHOU DEHONG TECHNOLOGY CO., LTD Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m
USB Cable 4	Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m
USB Cable 5	Manufacturer: Foxlink Cheng Uei Precision Ind.Co.,Ltd Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m
USB Cable 6	Manufacturer: FOXCONN INTERCONNECT TECHNOLOGY LIMITED Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m
USB Cable 7	Manufacturer: Dongguan Mingji Electronics Technology Group Co.,Ltd Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m
USB Cable 8	Manufacturer: Freeport Resources Enterprises (Jiangxi) Co.,Ltd Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m



USB Cable 9

Manufacturer: HONGFUJIN PRECISION
INDUSTRIAL(SHENZHEN).LTD
Signal Cable,5V~12V/3A USB2.0 USB-A to USB-C Charge Data
Cable,1.0m

Note: The information of the EUT is declared by the manufacturer.

2. There is more than one USB cable, one Adapter and one Battery, each one should be applied throughout the compliance test respectively, and however, only the worst case (USB cable 1/ Adapter 1/ Battery 1) will be recorded in this report.

3. There is add three USB cable, each one should be applied throughout the compliance test respectively, and however, only the worst case (USB cable 8) will be recorded in this report.

BAH2-W19 has two storage scenarios, with different memory. EMCP Storage Capacity is 3GB+32GB, LPDDR3+EMMC separation Scheme storage capacity is 4GB+64GB. The two storage mode of peripheral circuit has slight change, but does not affect product performance.

The differences about storage scenarios are showed in the following table. Other parts of the Tablet are the same, including the appearance, the antenna, Chipset, Bluetooth mode, Wifi mode, Adapter, Battery, Mainboard, Software and so on.

Model	BAH2-W19	
Storage Scenarios	EMCP	LPDDR3+eMMC
Storage capacity	3GB+32GB	4GB+64GB

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 (2018) Radio Frequency Devices**
- **ANSI C63.10 (2013)**
- **KDB 558074 D01 DTS Meas Guidance v05**

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.

The test software is used CMD

Worst-case data rates are shown as following table.

Band	Data Rate
Bluetooth(Low Energy)	2Mbps
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

5. Test Case Results

5.1. Maximum conducted output power

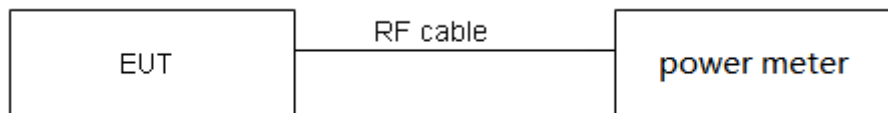
Ambient condition

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 Average Power meter with a known loss. The EUT is max power transmission with proper modulation. The signal transmission is continuous.

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	$\leq 1\text{W}$ (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

Antenna Power Index			
Packet Type	CH1	CH6	CH11
802.11b	15.5	15.5	15.5
802.11g	9	9	9
802.11n HT20	9	9	9
Packet Type	CH3	CH6	CH9
802.11n HT40	6	6	6

Band	T _{on} (ms)	T _(on+off) (ms)	Duty cycle	Duty cycle correction Factor(dB)
802.11b	12.40	12.46	1.00	NA
802.11g	2.06	2.11	0.98	NA
802.11n HT20	1.92	1.97	0.98	NA
802.11n HT40	0.94	0.99	0.95	0.22
BLE	0.38	0.62	0.603	2.200
Note: when Duty cycle>0.98, Duty cycle correction Factor not required.				

Network Standards	Carrier frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11b	2412	15.05	15.05	30	PASS
	2437	14.88	14.88	30	PASS
	2462	14.55	14.55	30	PASS
802.11g	2412	8.32	8.32	30	PASS
	2437	8.44	8.44	30	PASS
	2462	8.16	8.16	30	PASS
802.11n HT20	2412	8.03	8.03	30	PASS
	2437	8.15	8.15	30	PASS
	2462	7.94	7.94	30	PASS
802.11n HT40	2422	5.11	5.33	30	PASS
	2437	5.89	6.11	30	PASS
	2452	5.22	5.44	30	PASS
Bluetooth (Low Energy)	2402	7.39	9.59	30	PASS
	2440	6.65	8.85	30	PASS
	2480	6.66	8.86	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

5.2. 6dB Bandwidth

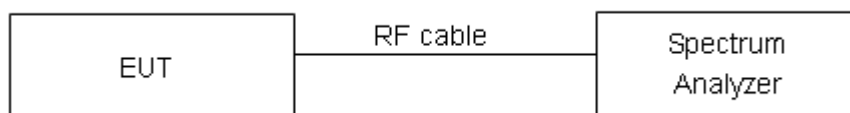
Ambient condition

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. Dector=Peak, Trace mode=max hold.

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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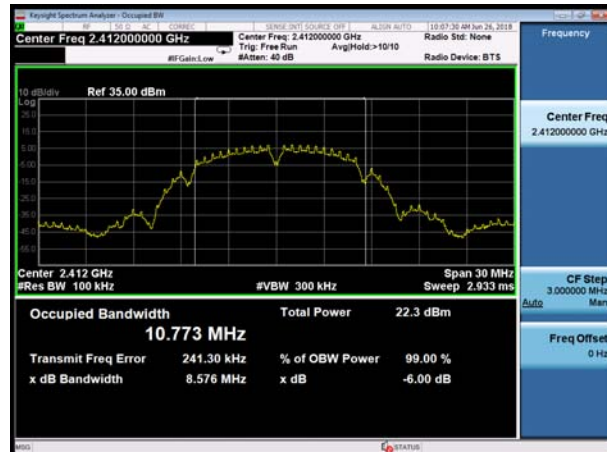
Measurement Uncertainty

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

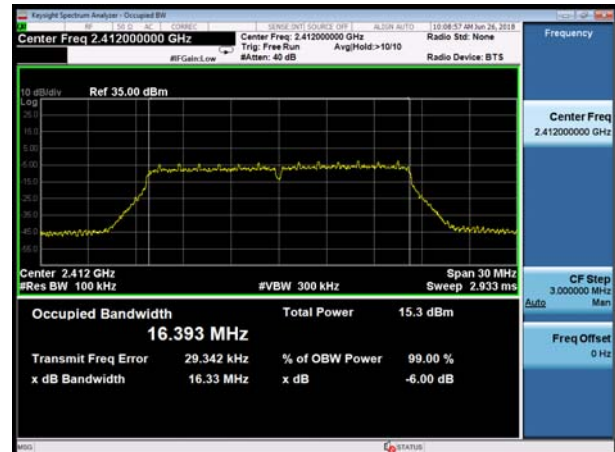
Test Results:

Network Standards	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412	10.773	8.576	500	PASS
	2437	10.766	9.041	500	PASS
	2462	10.883	8.570	500	PASS
802.11g	2412	16.393	16.330	500	PASS
	2437	16.412	16.390	500	PASS
	2462	16.381	16.350	500	PASS
802.11n HT20	2412	17.550	17.220	500	PASS
	2437	17.573	17.610	500	PASS
	2462	17.533	17.330	500	PASS
802.11n HT40	2422	35.706	35.190	500	PASS
	2437	35.931	36.250	500	PASS
	2452	35.750	35.170	500	PASS
Bluetooth (Low Energy)	2402	1.0471	0.7074	500	PASS
	2440	1.0486	0.6891	500	PASS
	2480	1.0457	0.7043	500	PASS

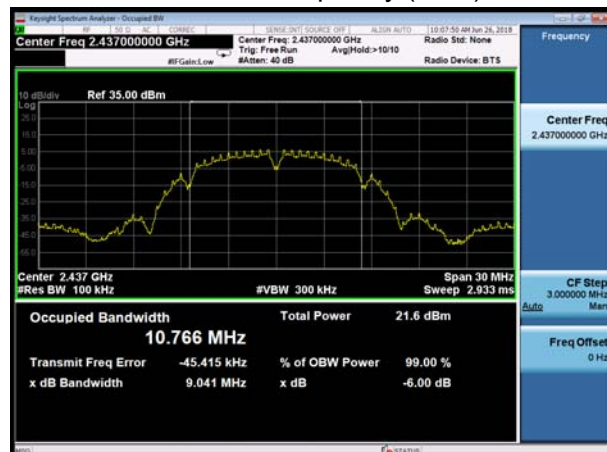
802.11b, Carrier frequency (MHz): 2412



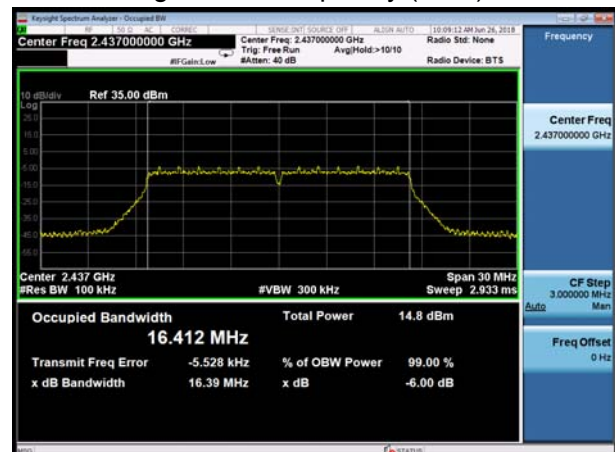
802.11g, Carrier frequency (MHz): 2412



802.11b, Carrier frequency (MHz): 2437



802.11g, Carrier frequency (MHz): 2437



802.11b, Carrier frequency (MHz): 2462



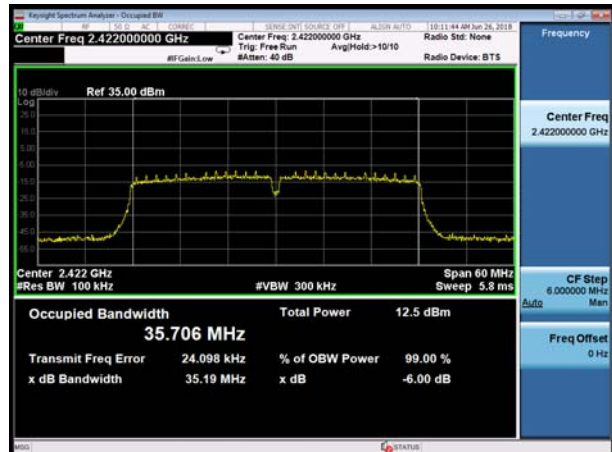
802.11g, Carrier frequency (MHz): 2462



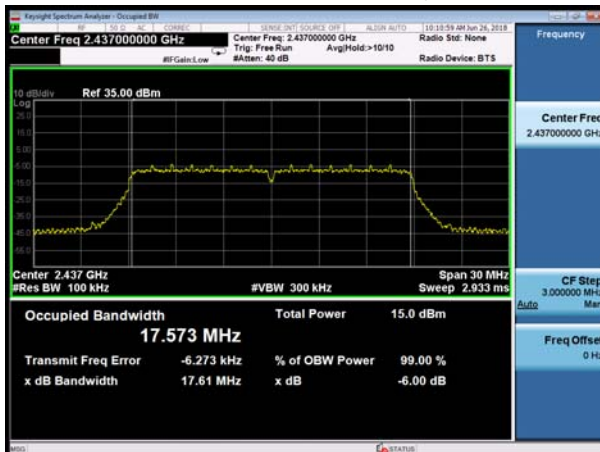
802.11n(HT20), Carrier frequency (MHz): 2412



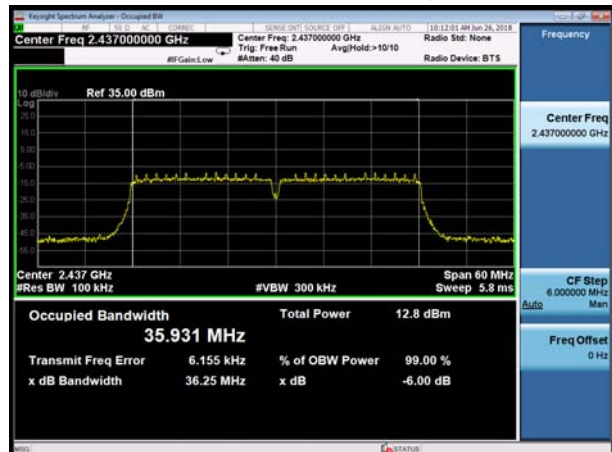
802.11n(HT40), Carrier frequency (MHz): 2422



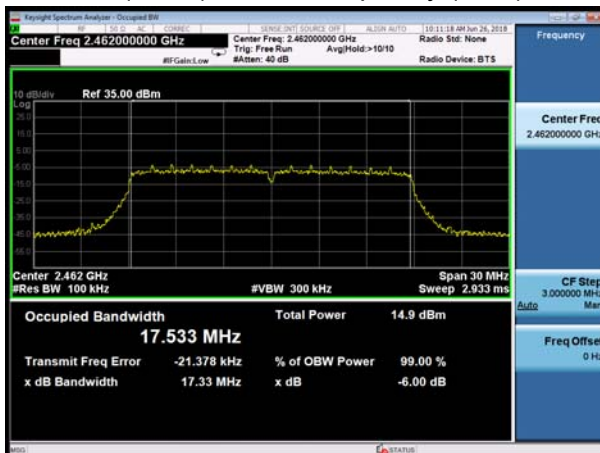
802.11n(HT20), Carrier frequency (MHz): 2437



802.11n(HT40), Carrier frequency (MHz): 2437



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



802.11n(HT40), Carrier frequency (MHz): 2452





BLE Carrier frequency (MHz): 2402



BLE Carrier frequency (MHz): 2440



BLE Carrier frequency (MHz): 2480



5.3. Band Edge

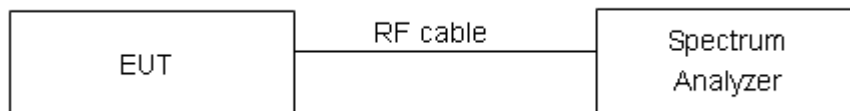
Ambient condition

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.” If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.”

Measurement Uncertainty

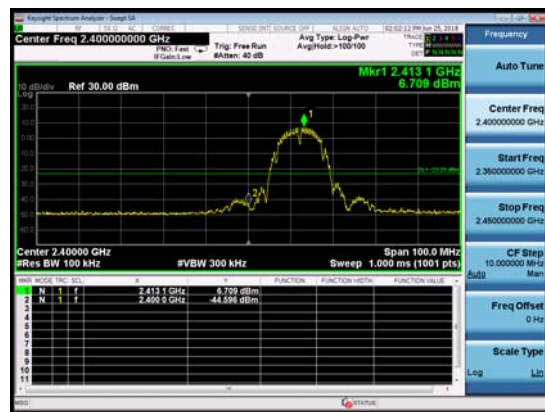
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB

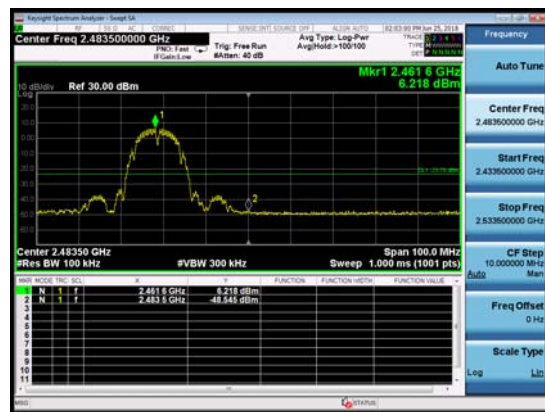


Test Results: PASS

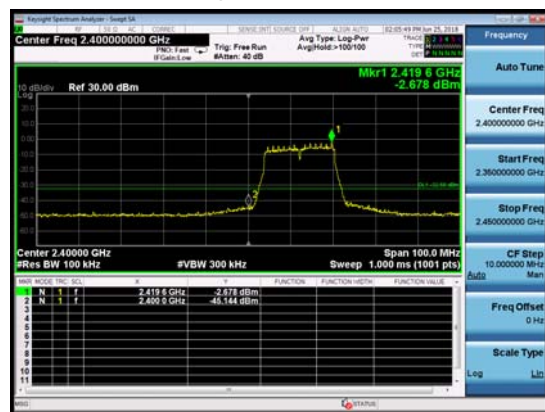
802.11b, Channel No.: 1



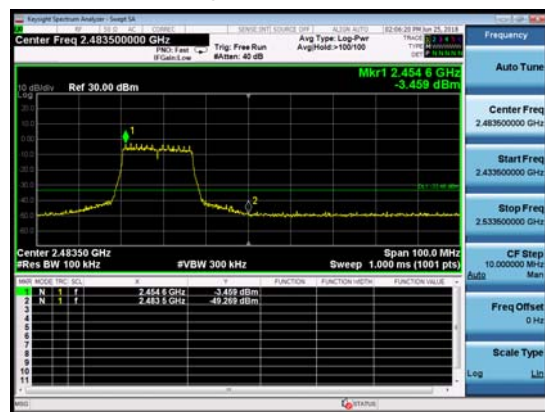
802.11b, Channel No.: 11



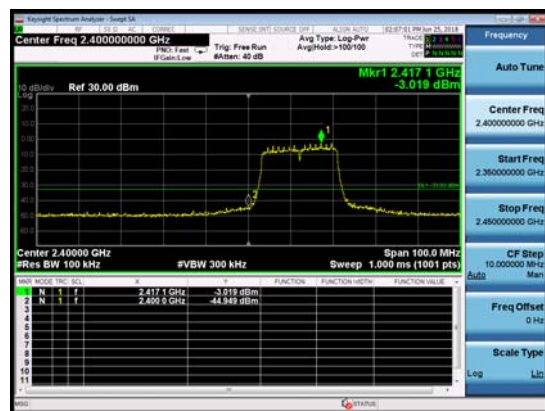
802.11g, Channel No.: 1



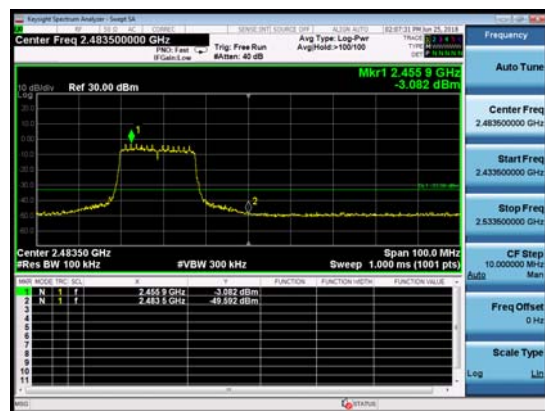
802.11g, Channel No.: 11



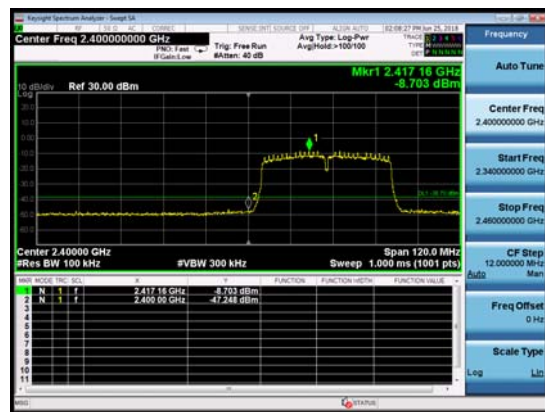
802.11n(HT20), Channel No.: 1



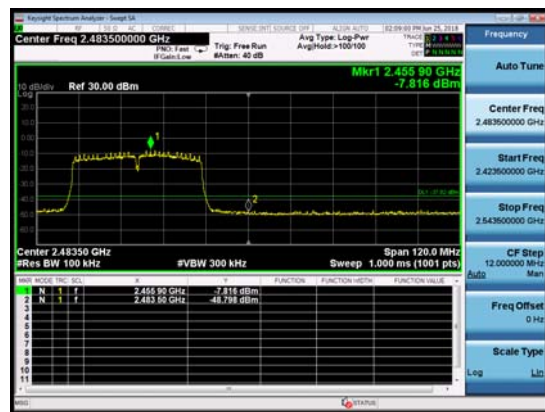
802.11n(HT20), Channel No.: 11

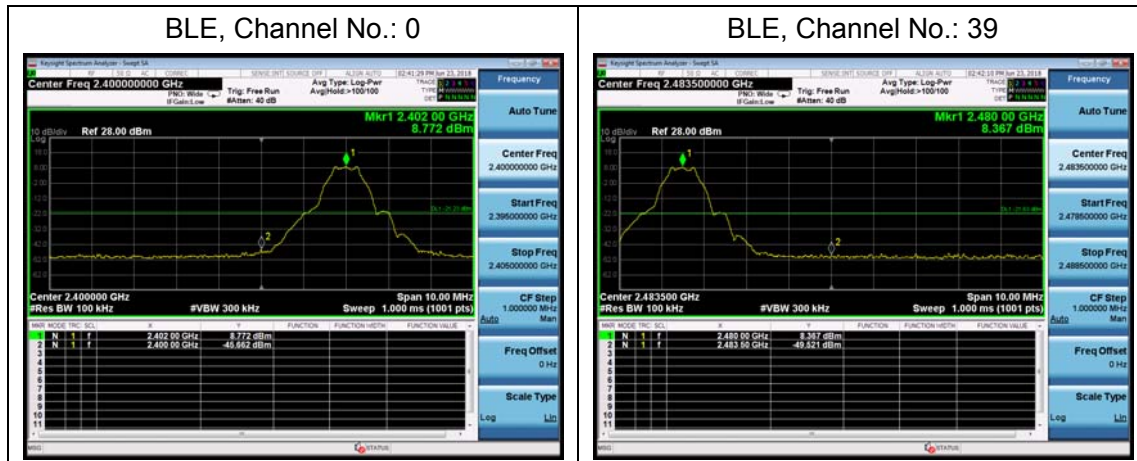


802.11n(HT40), Channel No.: 3



802.11n(HT40), Channel No.: 9





5.4. Power Spectral Density

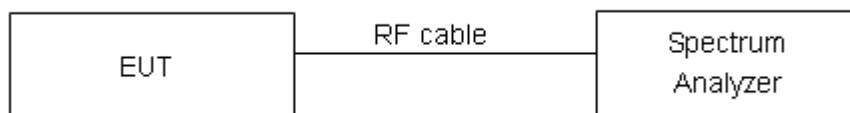
Ambient condition

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

Method 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. Method AVGPS-2 in KDB558074 D01 was used for this test.

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	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	1	-17.13	-17.13	8	PASS
	6	-17.52	-17.52	8	PASS
	11	-17.13	-17.13	8	PASS
802.11g	1	-26.11	-26.11	8	PASS
	6	-27.47	-27.47	8	PASS
	11	-26.78	-26.78	8	PASS
802.11n HT20	1	-26.90	-26.90	8	PASS
	6	-27.75	-27.75	8	PASS
	11	-26.73	-26.73	8	PASS
802.11n HT40	3	-32.57	-32.35	8	PASS
	6	-32.53	-32.31	8	PASS
	9	-32.10	-31.89	8	PASS
Bluetooth (Low Energy)	0	-10.73	-8.53	8	PASS
	19	-10.96	-8.76	8	PASS
	39	-10.63	-8.43	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

802.11b, Channel No.: 1



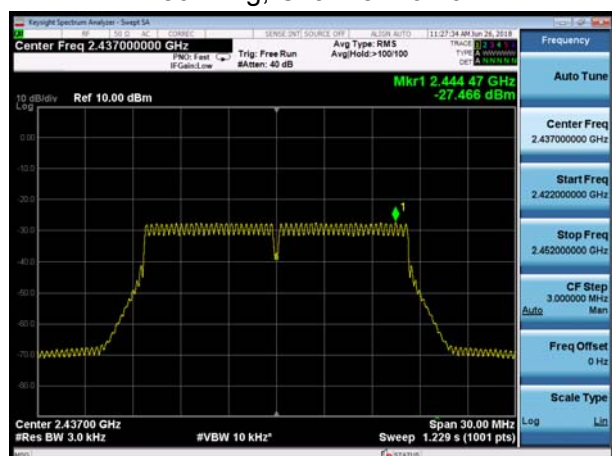
802.11g, Channel No.: 1



802.11b, Channel No.: 6



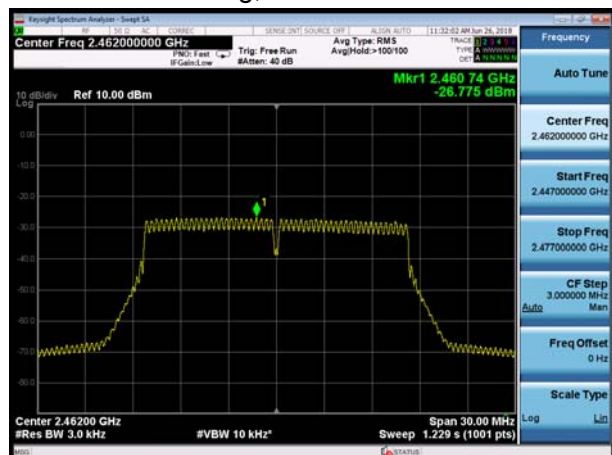
802.11g, Channel No.: 6



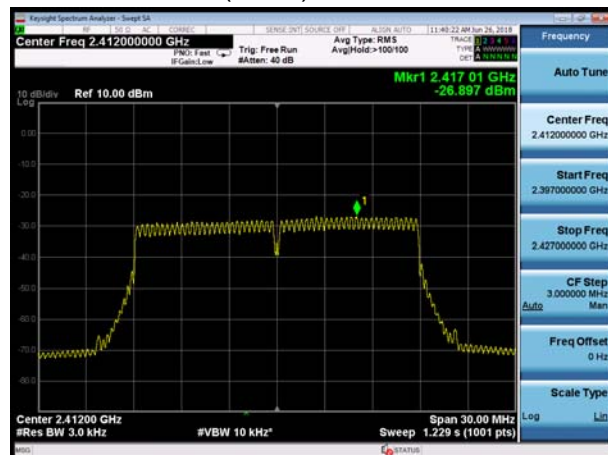
802.11b, Channel No.: 11



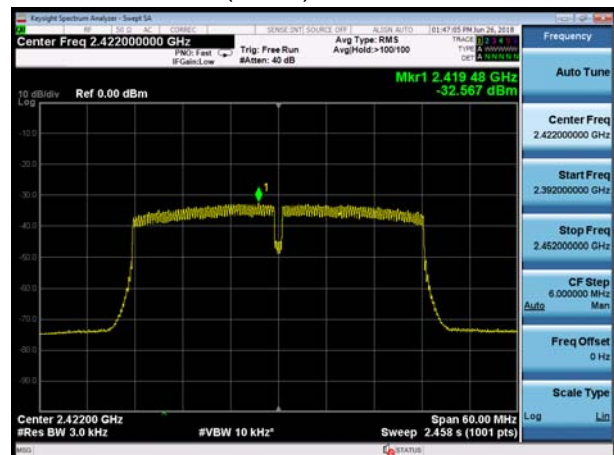
802.11g, Channel No.: 11



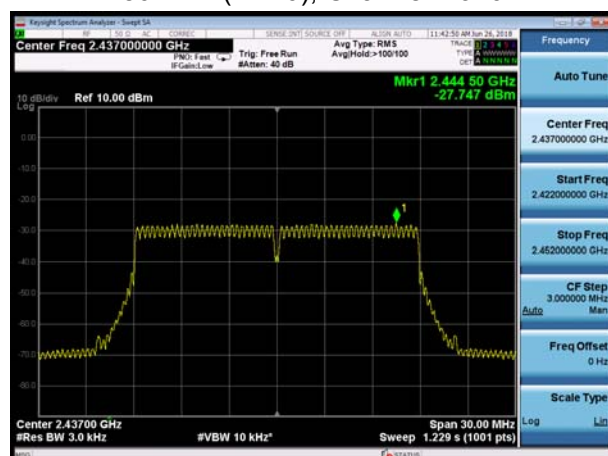
802.11n(HT20), Channel No. 1



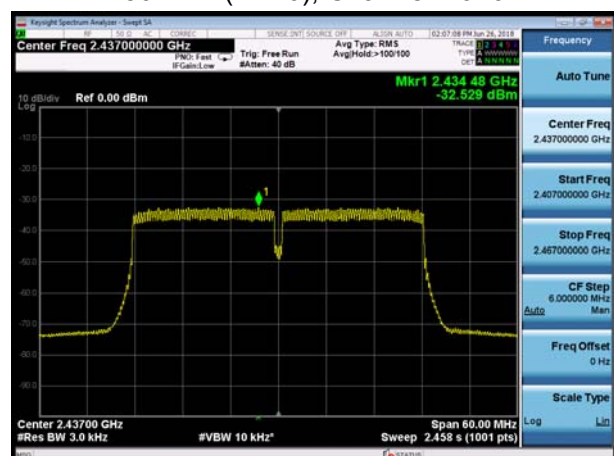
802.11n(HT40), Channel No. 3



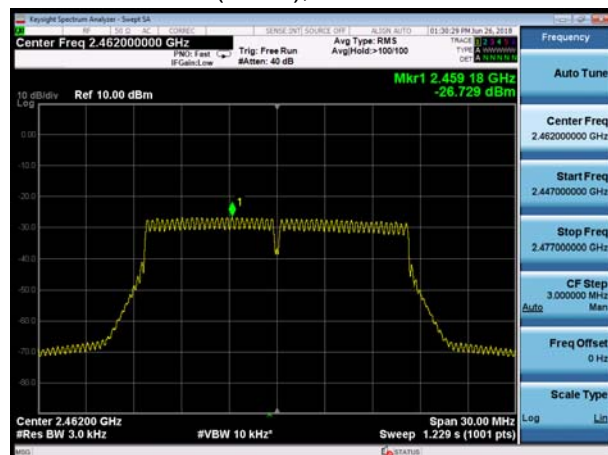
802.11n(HT20), Channel No. 6



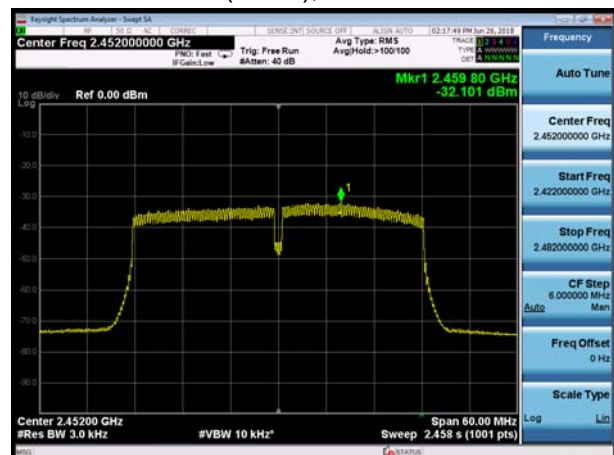
802.11n(HT40), Channel No. 6



802.11n(HT20), Channel No. 11

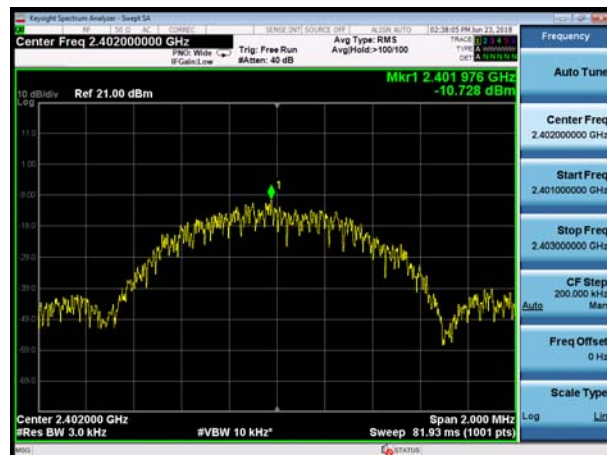


802.11n(HT40), Channel No. 9





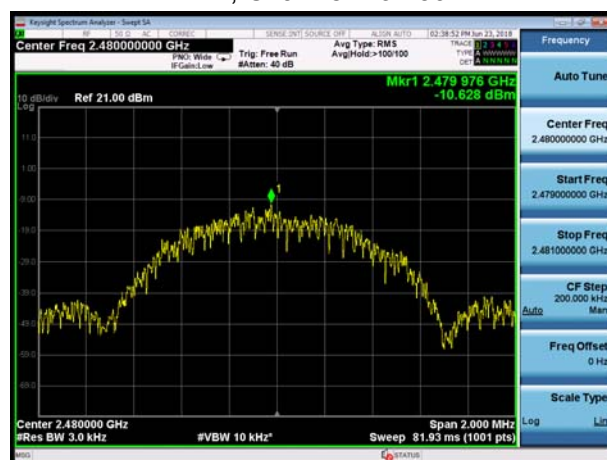
BLE, Channel No.: 0



BLE, Channel No.: 19



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. 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) 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 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.” If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.”

Network Standards	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	5.88	-24.12
	2437	5.57	-24.43
	2462	5.97	-24.03
802.11g	2412	-3.40	-33.40
	2437	-3.65	-33.65
	2462	-3.51	-33.51
802.11n HT20	2412	-2.85	-32.85
	2437	-3.98	-33.98
	2462	-3.47	-33.47
802.11n HT40	2422	-8.93	-38.93
	2437	-9.00	-39.00
	2452	-8.84	-38.84
Bluetooth (Low Energy)	2402	8.52	-21.48
	2440	8.37	-21.63
	2480	7.92	-22.08

Measurement Uncertainty

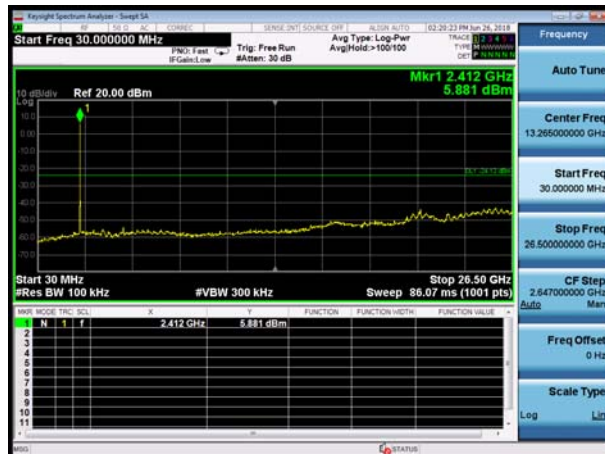
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

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

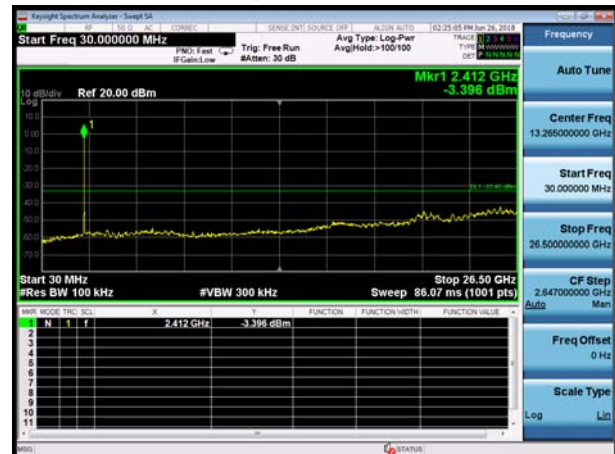


Test Results:

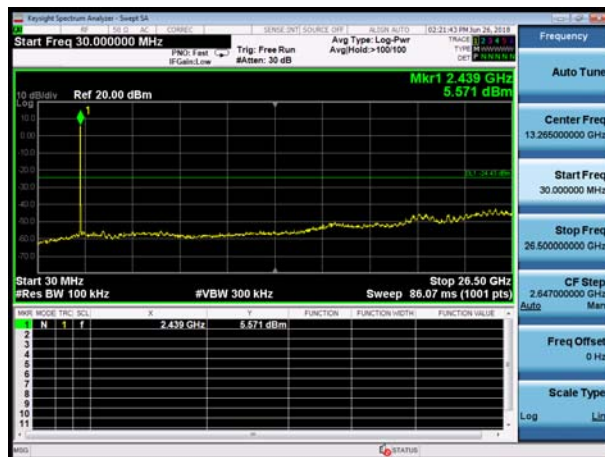
802.11b, Channel No.: 1



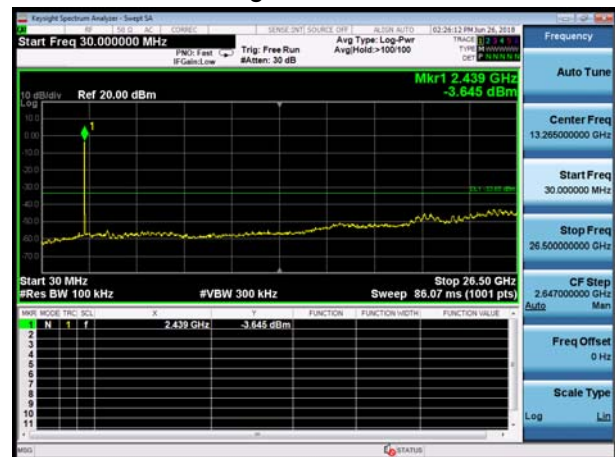
802.11g, Channel No.: 1



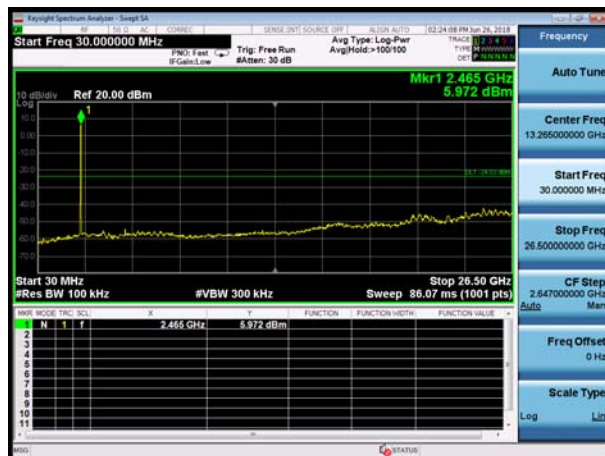
802.11b, Channel No.: 6



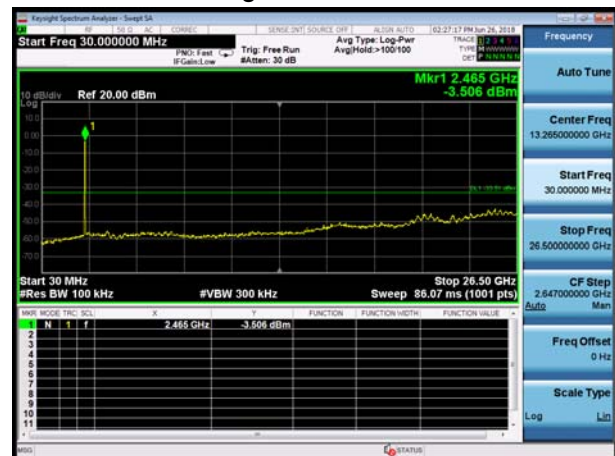
802.11g, Channel No.: 6



802.11b, Channel No.: 11

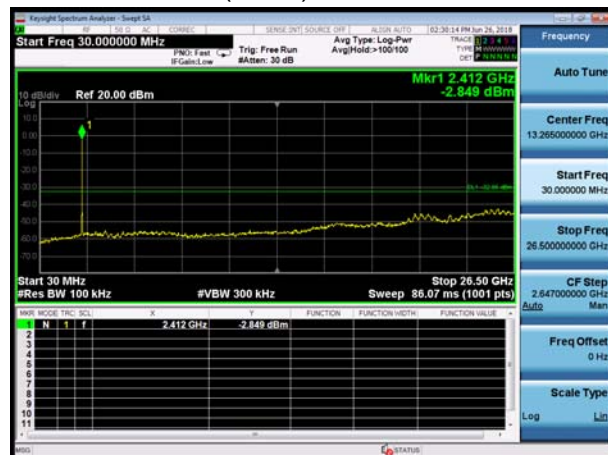


802.11g, Channel No.: 11

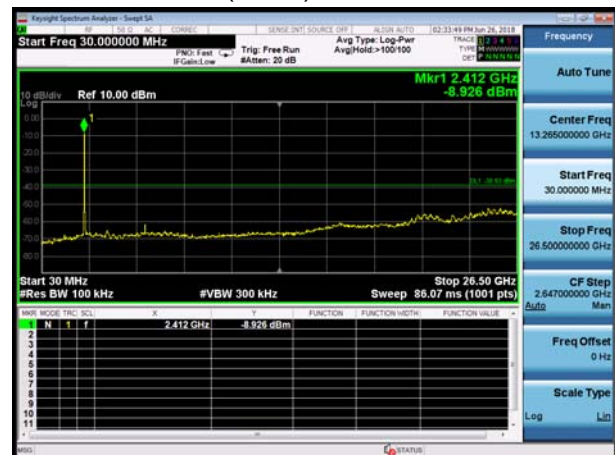




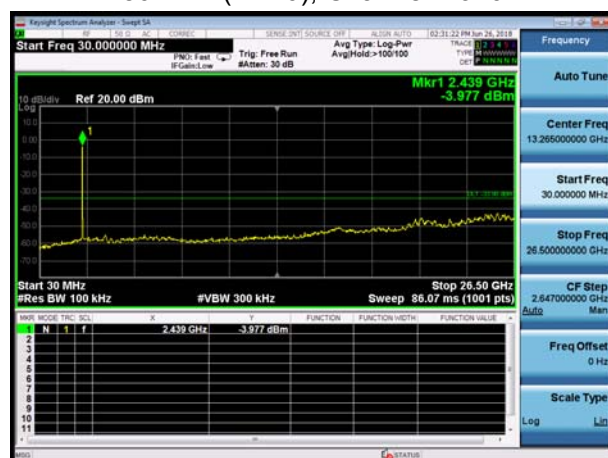
802.11n(HT20), Channel No. 1



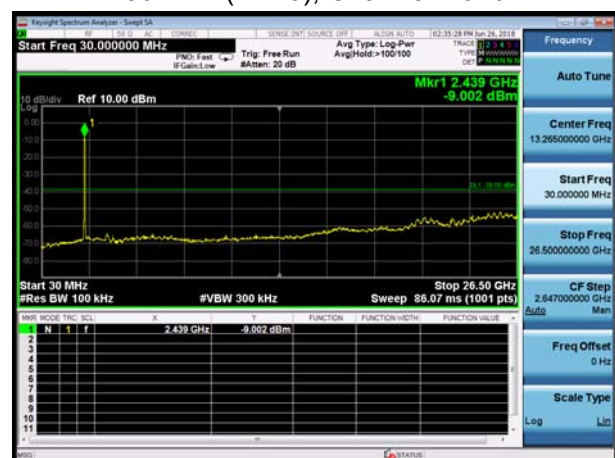
802.11n(HT40), Channel No. 3



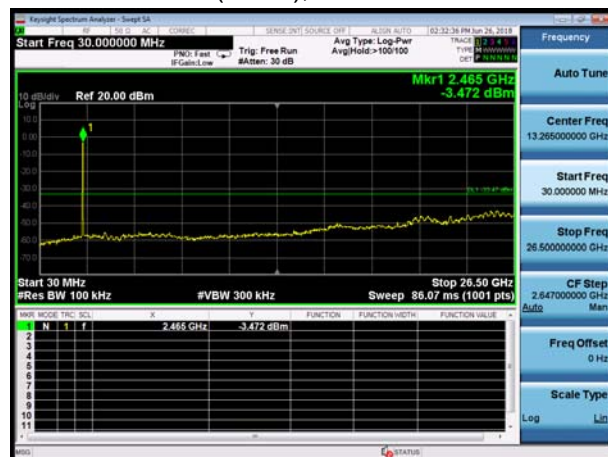
802.11n(HT20), Channel No. 6



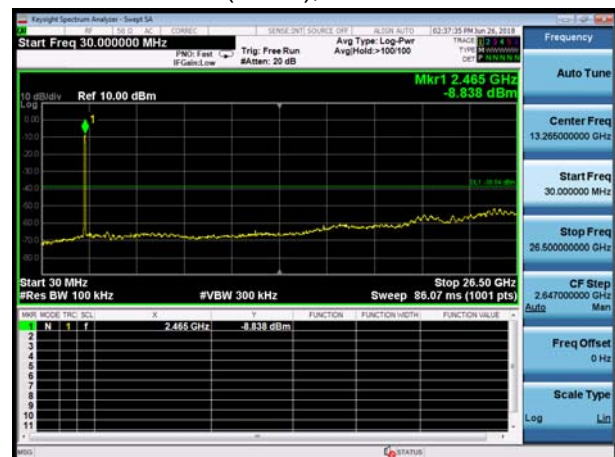
802.11n(HT40), Channel No. 6



802.11n(HT20), Channel No. 11

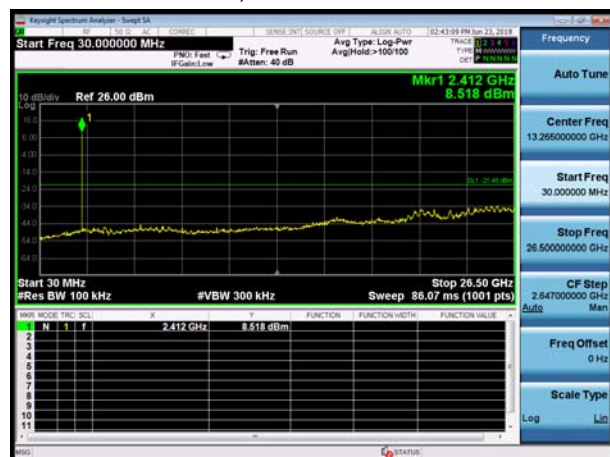


802.11n(HT40), Channel No. 9

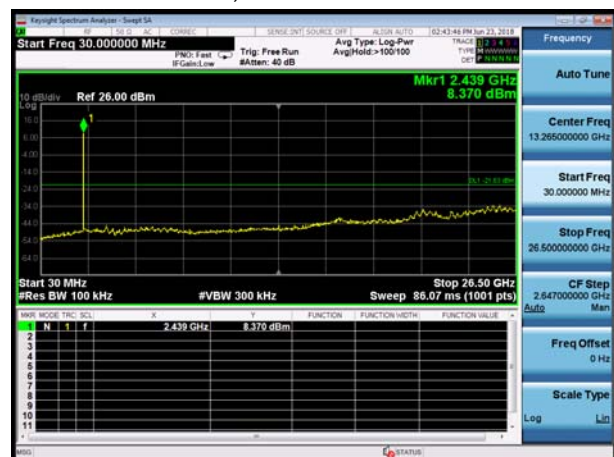




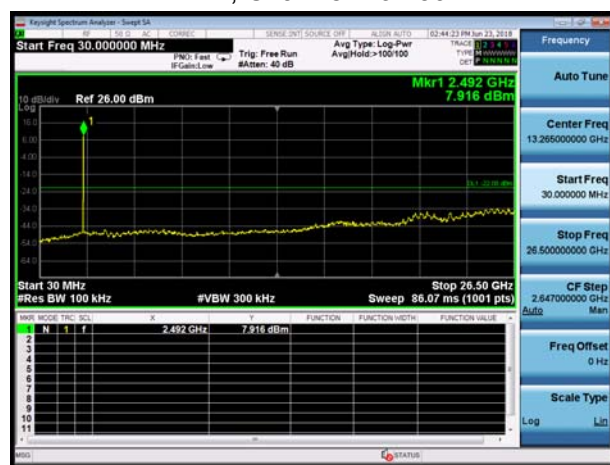
BLE, Channel No.: 0



BLE, Channel No.: 19



BLE, Channel No.: 39



5.6. Unwanted 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 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. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

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.

This method refer to KDB 558074.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

I) Peak emission levels are measured by setting the instrument as follows:

- 1) RBW = 1 MHz.
- 2) VBW $\geq [3 \times \text{RBW}]$
- 3) Detector = peak.
- 4) Sweep time = auto.
- 5) Trace mode = max hold.
- 6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately $1 / D$, where D is the duty cycle.

II) Average emission levels are measured by setting the instrument as follows:

- a) RBW = 1 MHz.
- b) VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq \text{RBW} / 2$. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage

averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

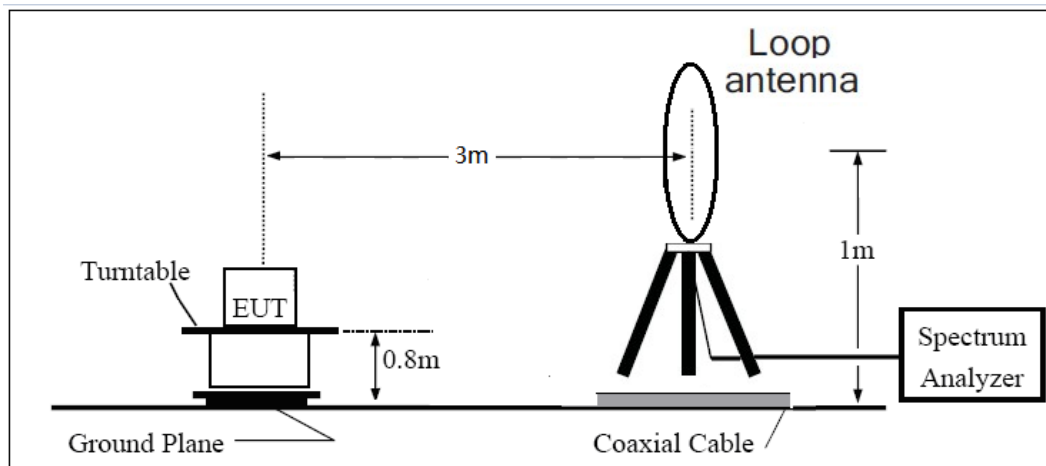
3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

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 lie-down position (X axis) and the antenna is vertical.

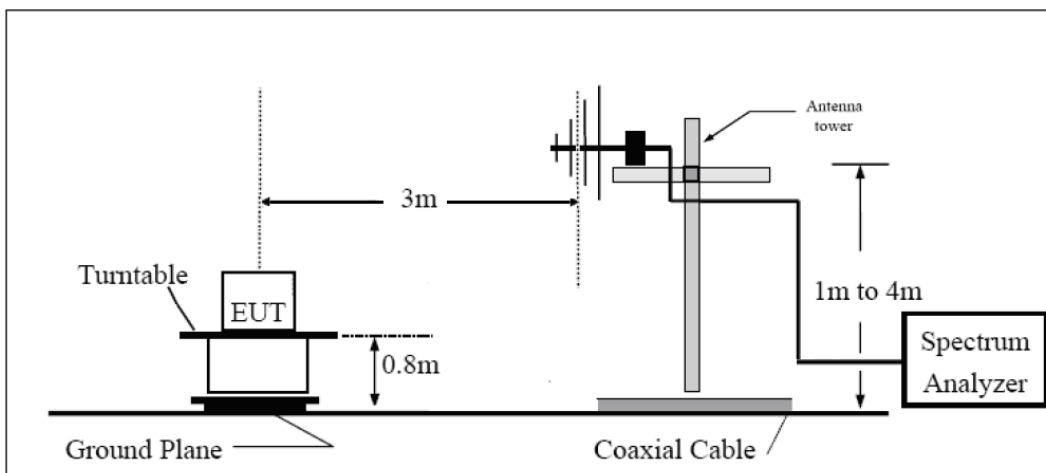
The test is in transmitting mode.

Test setup

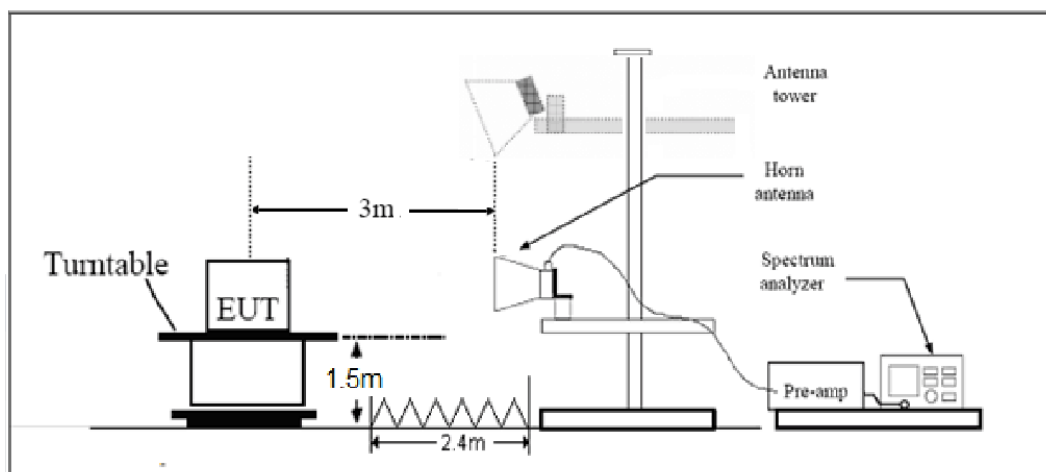
9KHz ~ 30MHz



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.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

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			

Measurement Uncertainty

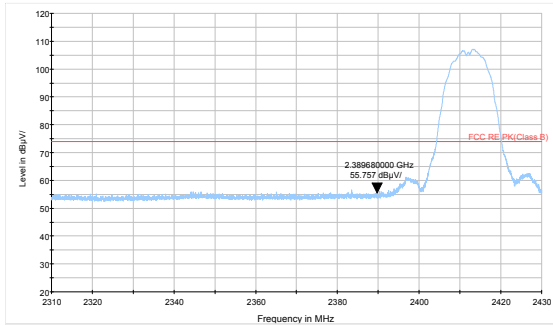
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.02 dB
200MHz-1GHz	3.28 dB
1-18GHz	3.70 dB
18-26.5GHz	5.78 dB

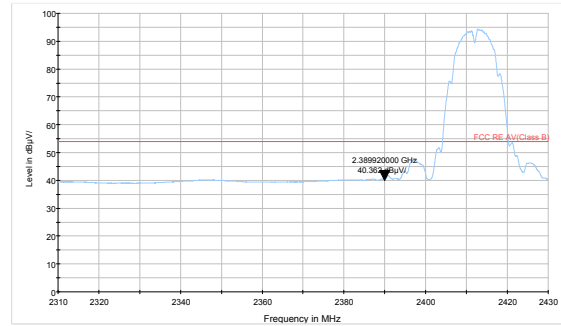


Test Results:

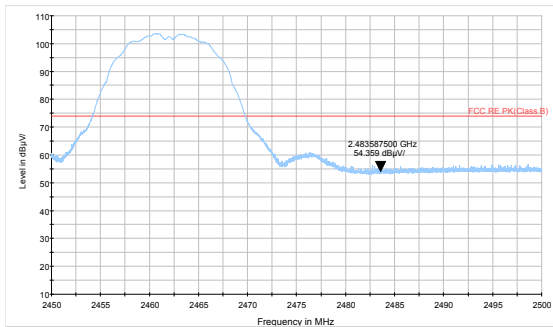
EMCP (3GB+32GB)



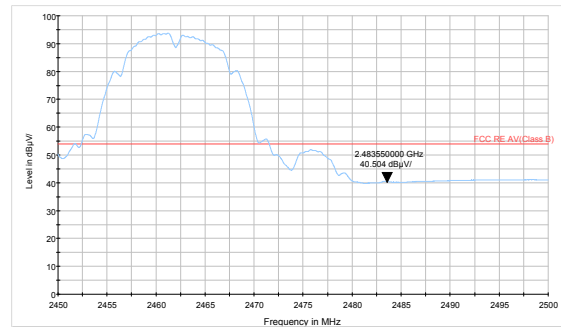
802.11b-Channel 1 Peak



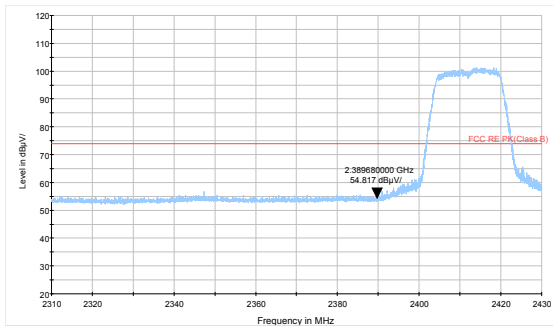
802.11b-Channel 1 Average



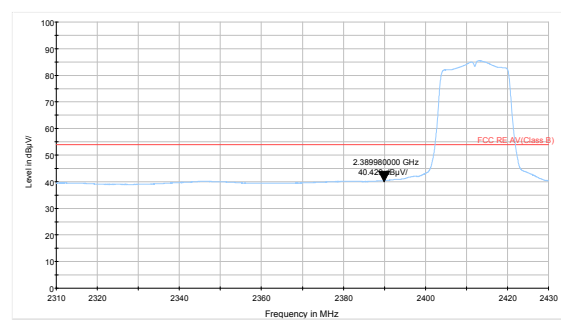
802.11b-Channel 11 Peak



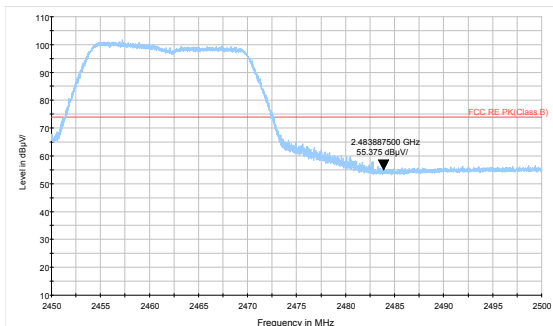
802.11b-Channel 11 Average



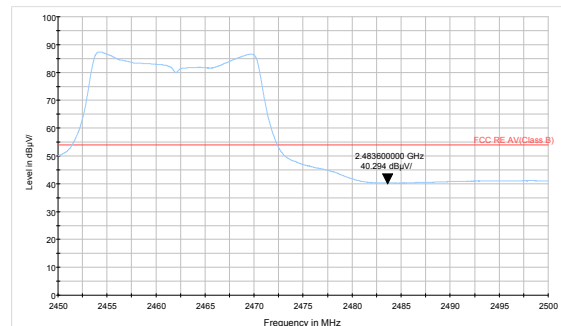
802.11g-Channel 1 Peak



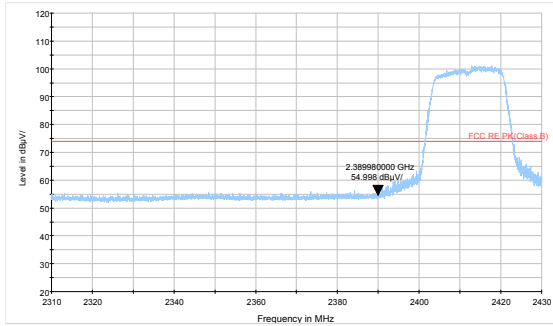
802.11g-Channel 1 Average



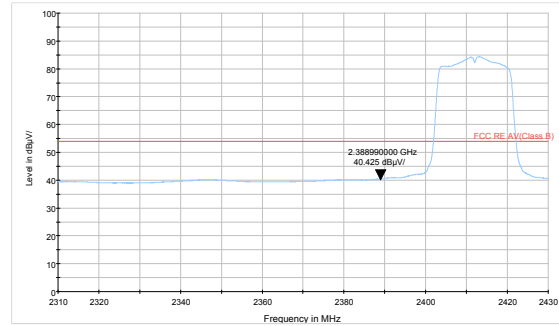
802.11g-Channel 11 Peak



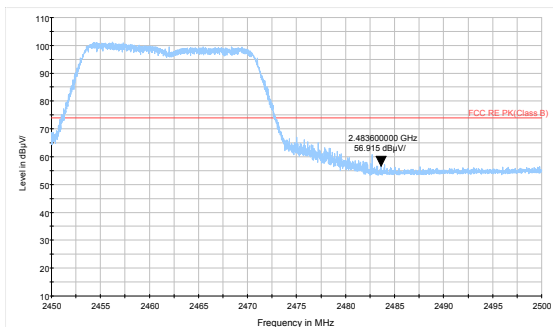
802.11g-Channel 11 Average



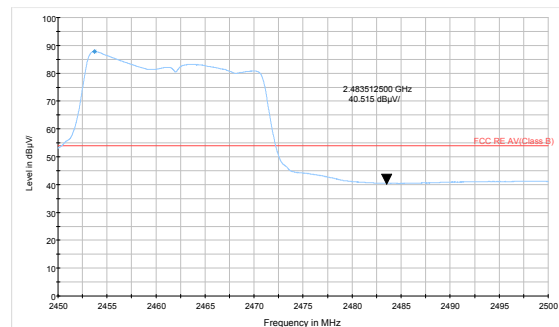
802.11n HT20 -Channel 1 Peak



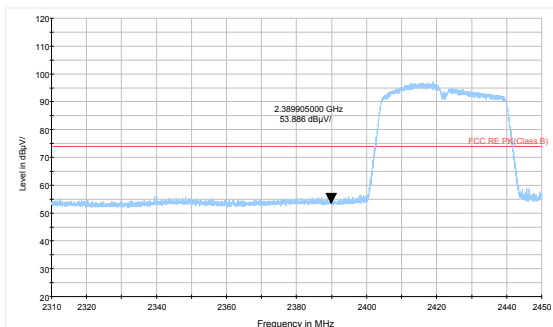
802.11n HT20 -Channel 1 Average



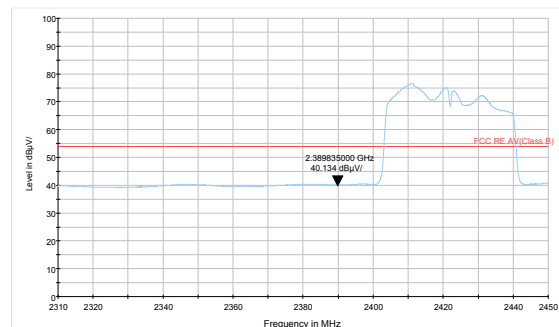
802.11n HT20 -Channel 11 Peak



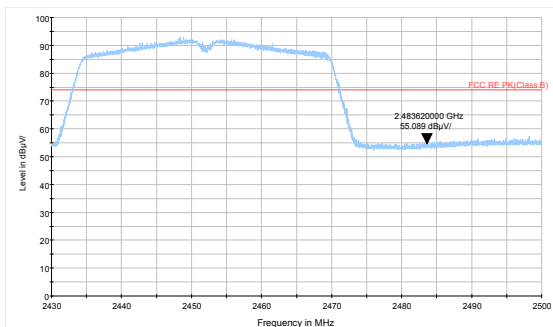
802.11n HT20 -Channel 11 Average



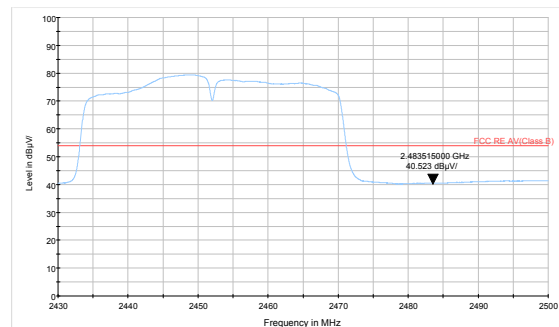
802.11n HT40 -Channel 3 Peak



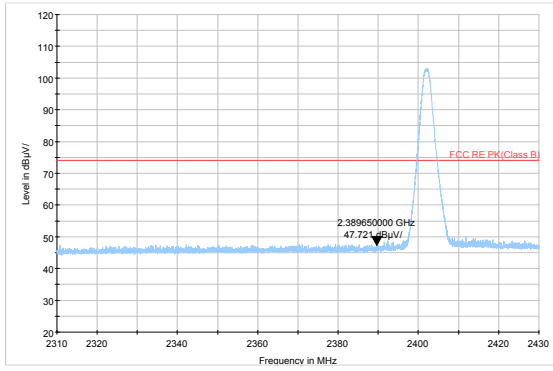
802.11n HT40 -Channel 3 Average



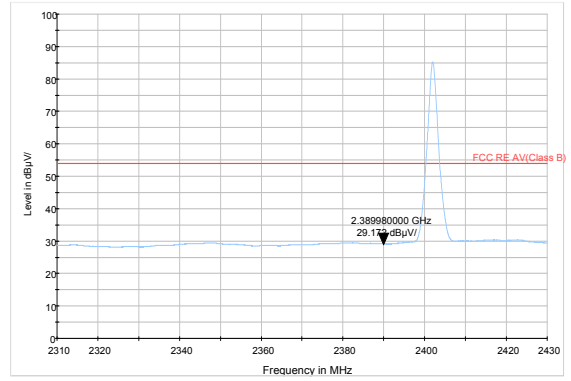
802.11n HT40 -Channel 9 Peak



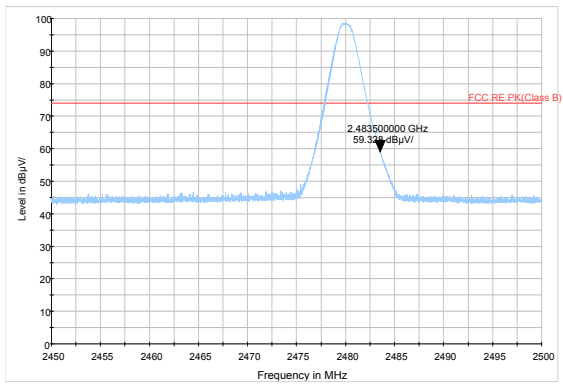
802.11n HT40 -Channel 9 Average



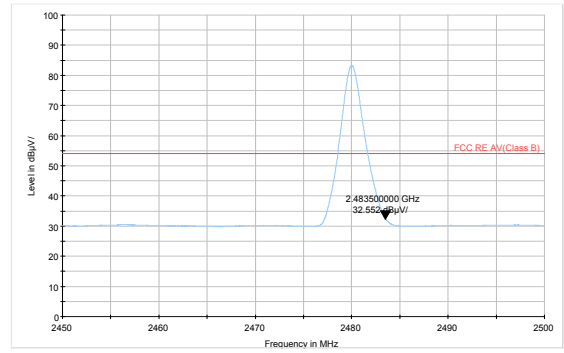
BLE Channel 0 Peak



BLE Channel 0 Average



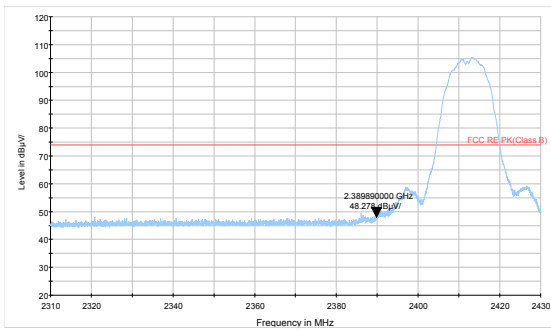
BLE Channel 39 Peak



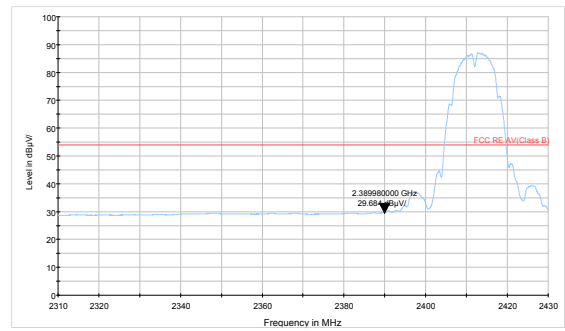
BLE Channel 39 Average



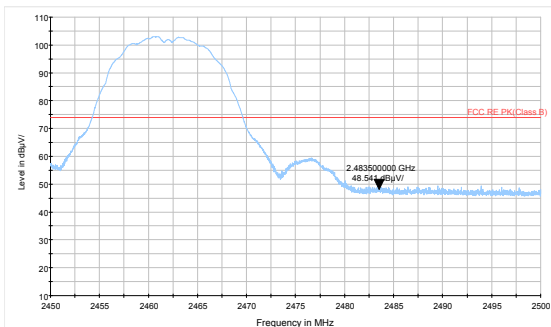
LPDDR3+eMMC (4GB+64GB)



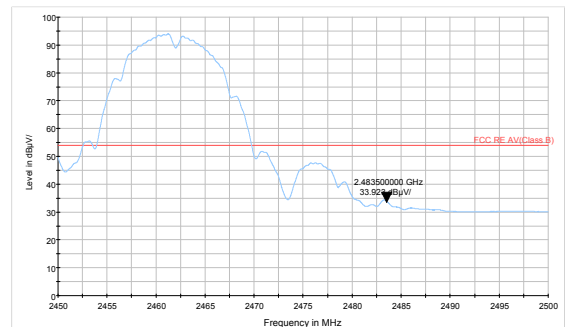
802.11b-Channel 1 Peak



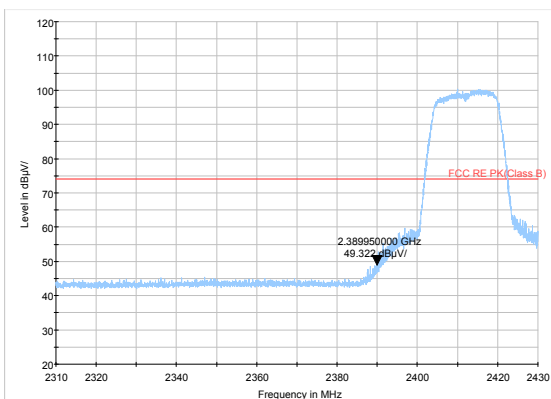
802.11b-Channel 1 Average



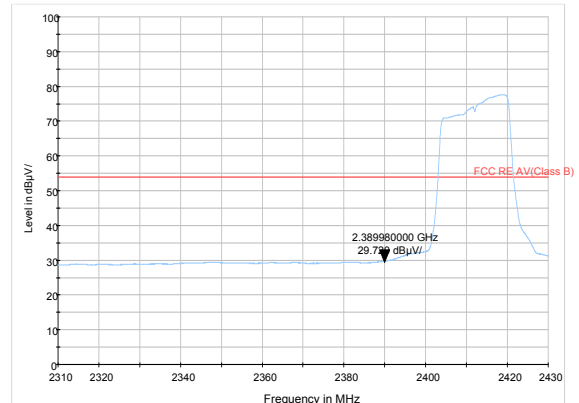
802.11b-Channel 11 Peak



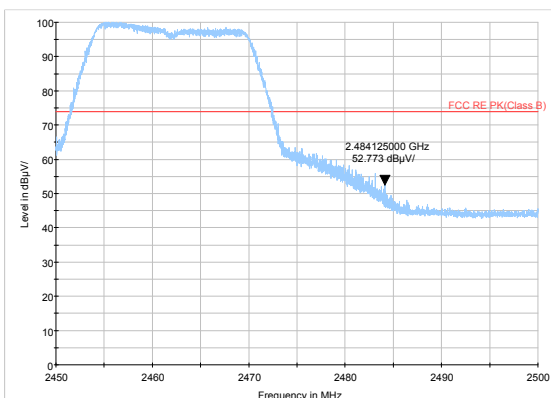
802.11b-Channel 11 Average



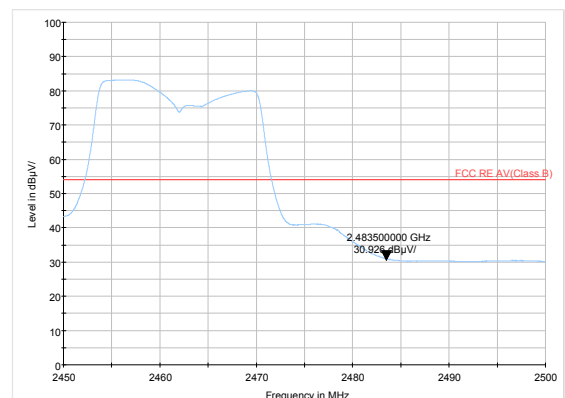
802.11g-Channel 1 Peak



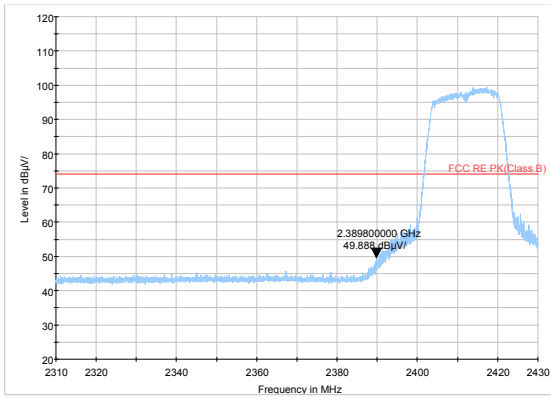
802.11g-Channel 1 Average



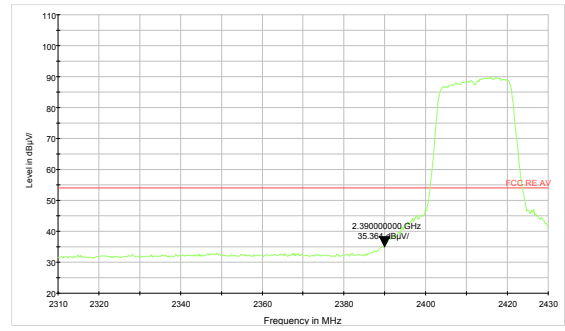
802.11g-Channel 11 Peak



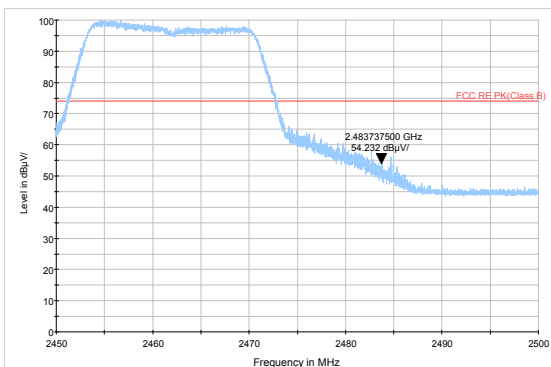
802.11g-Channel 11 Average



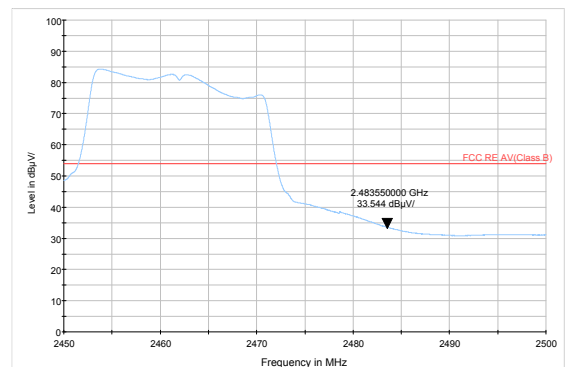
802.11n HT20 -Channel 1 Peak



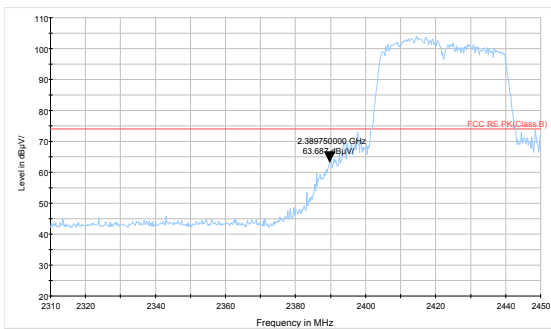
802.11n HT20 -Channel 1 Average



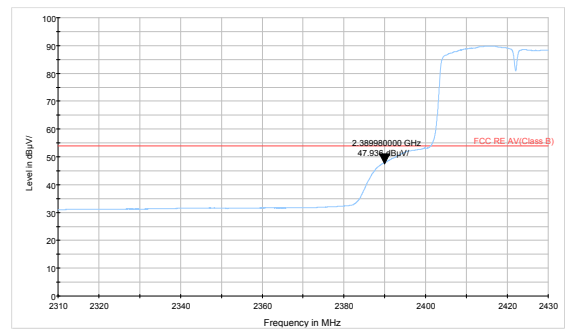
802.11n HT20 -Channel 11 Peak



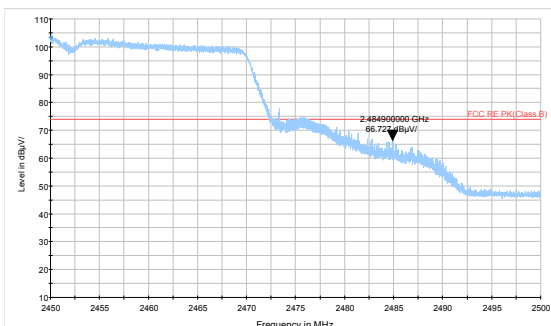
802.11n HT20 -Channel 11 Average



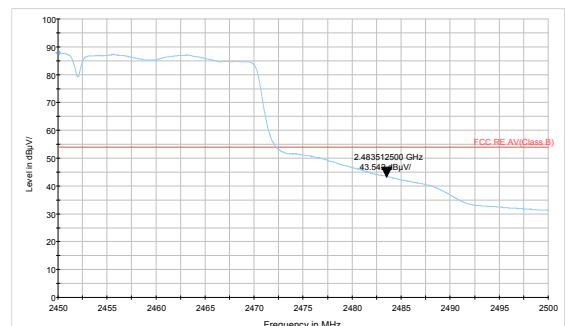
802.11n HT40 -Channel 3 Peak



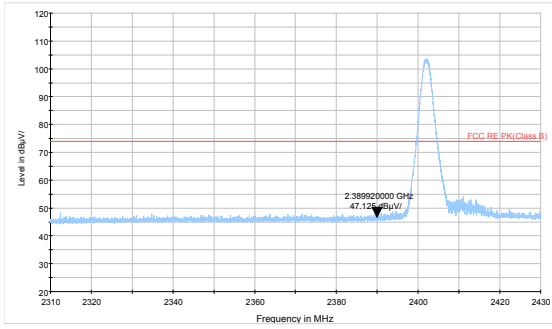
802.11n HT40 -Channel 3 Average



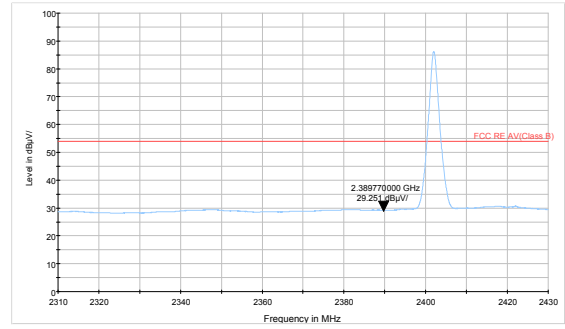
802.11n HT40 -Channel 9 Peak



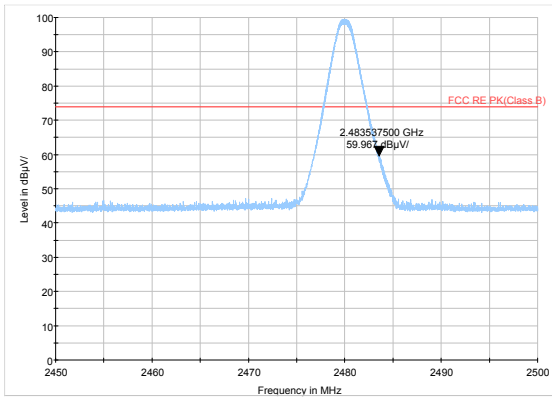
802.11n HT40 -Channel 9 Average



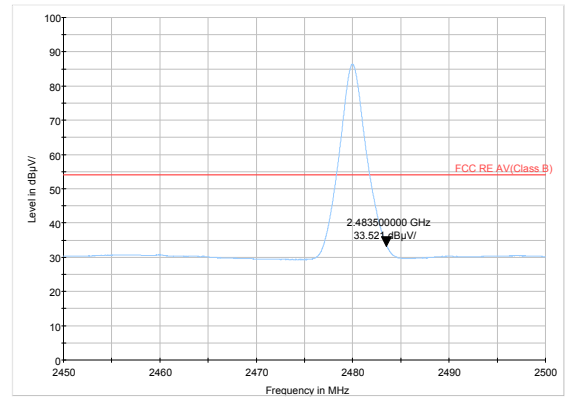
BLE Channel 0 Peak



BLE Channel 0 Average



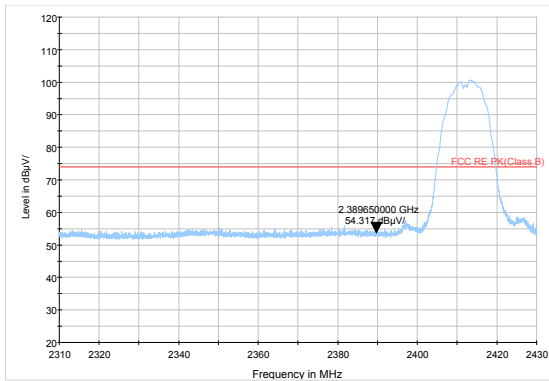
BLE Channel 39 Peak



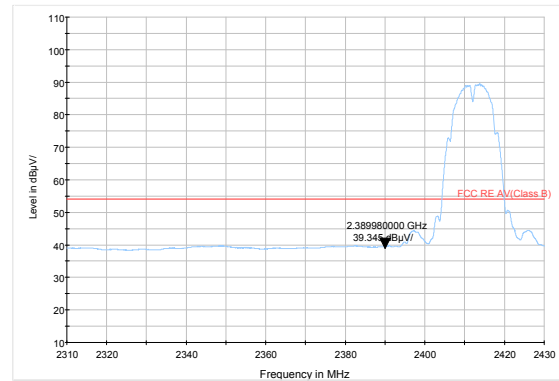
BLE Channel 39 Average



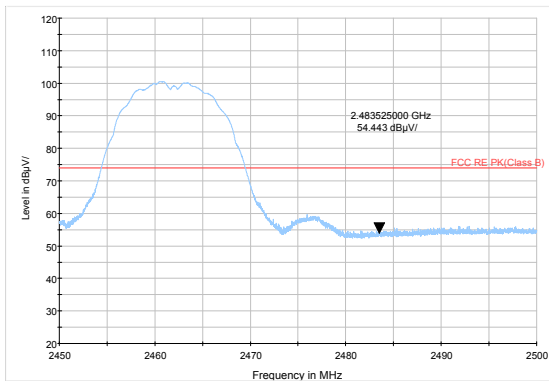
LPDDR3+eMMC (4GB+64GB) with Adapter 5 and USB cable 8



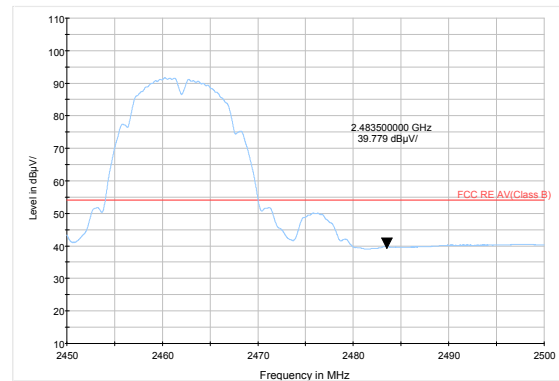
802.11b-Channel 1 Peak



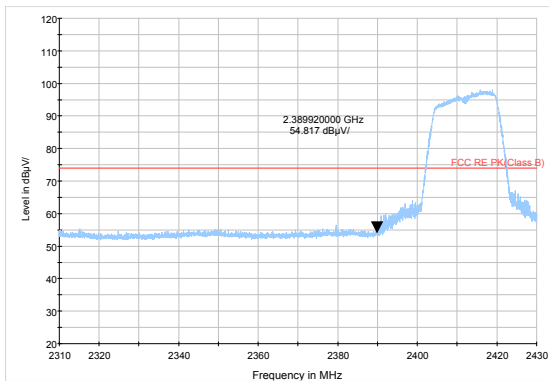
802.11b-Channel 1 Average



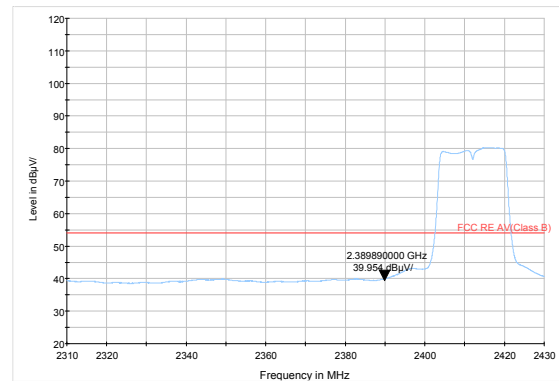
802.11b-Channel 11 Peak



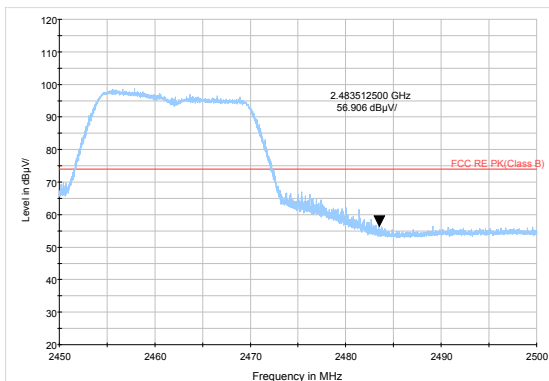
802.11b-Channel 11 Average



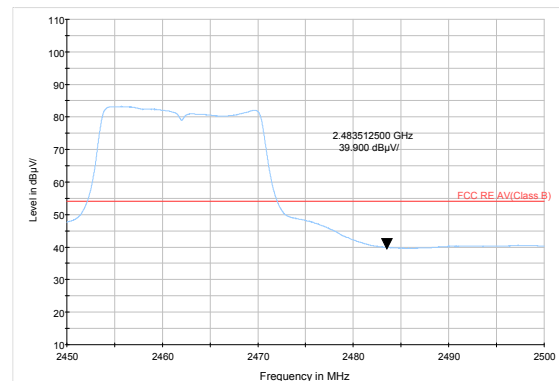
802.11g-Channel 1 Peak



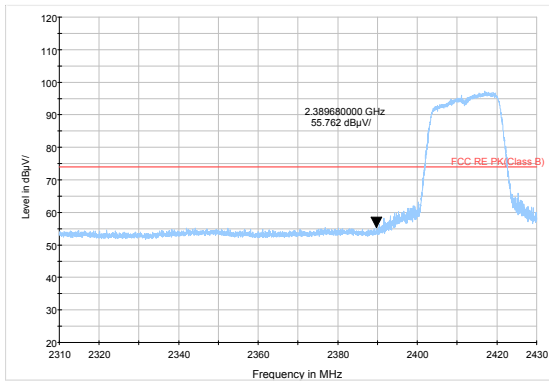
802.11g-Channel 1 Average



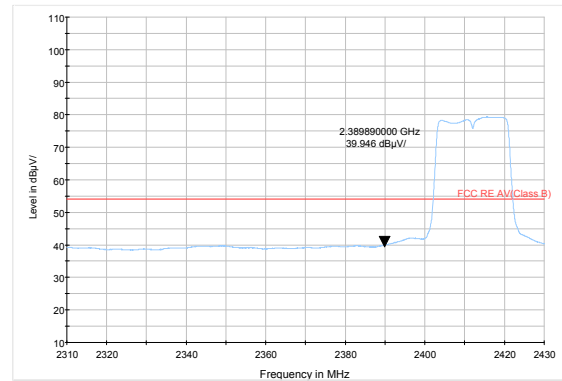
802.11g-Channel 11 Peak



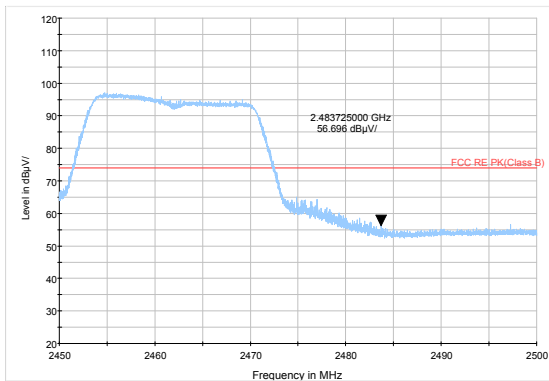
802.11g-Channel 11 Average



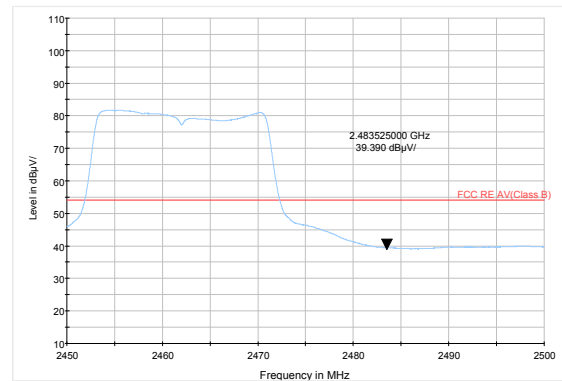
802.11n HT20 -Channel 1 Peak



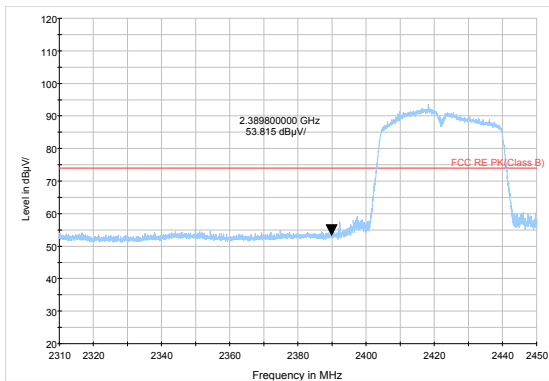
802.11n HT20 -Channel 1 Average



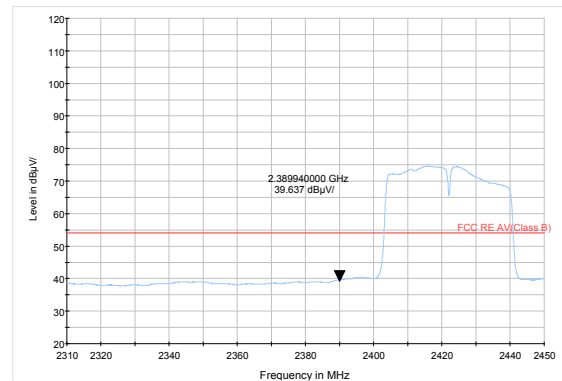
802.11n HT20 -Channel 11 Peak



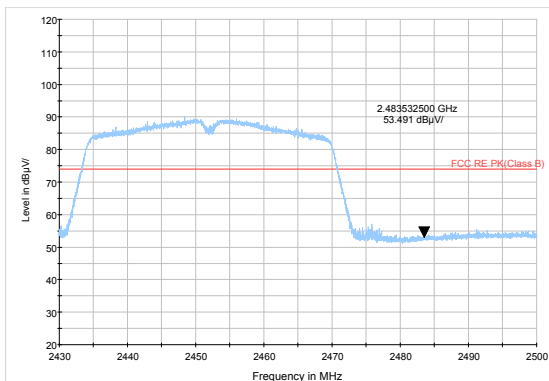
802.11n HT20 -Channel 11 Average



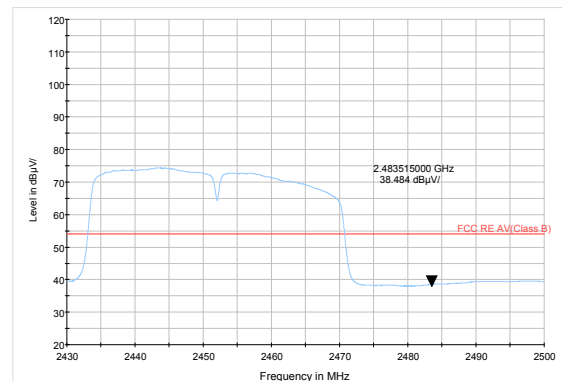
802.11n HT40 -Channel 3 Peak



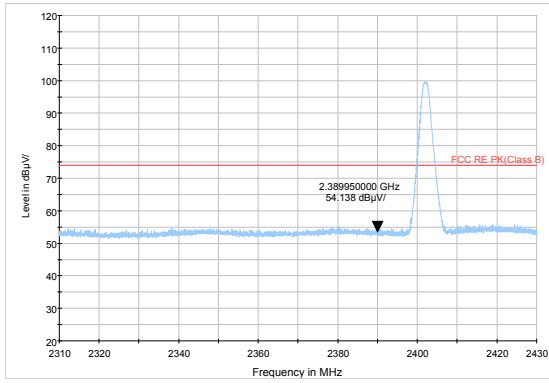
802.11n HT40 -Channel 3 Average



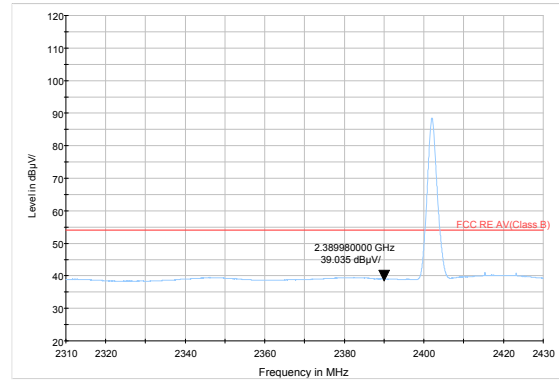
802.11n HT40 -Channel 9 Peak



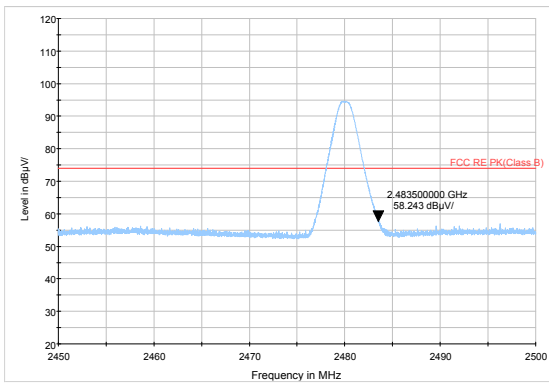
802.11n HT40 -Channel 9 Average



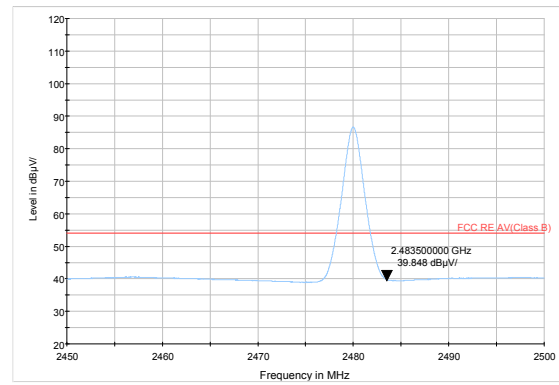
BLE Channel 0 Peak



BLE Channel 0 Average



BLE Channel 39 Peak



BLE Channel 39 Average

Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

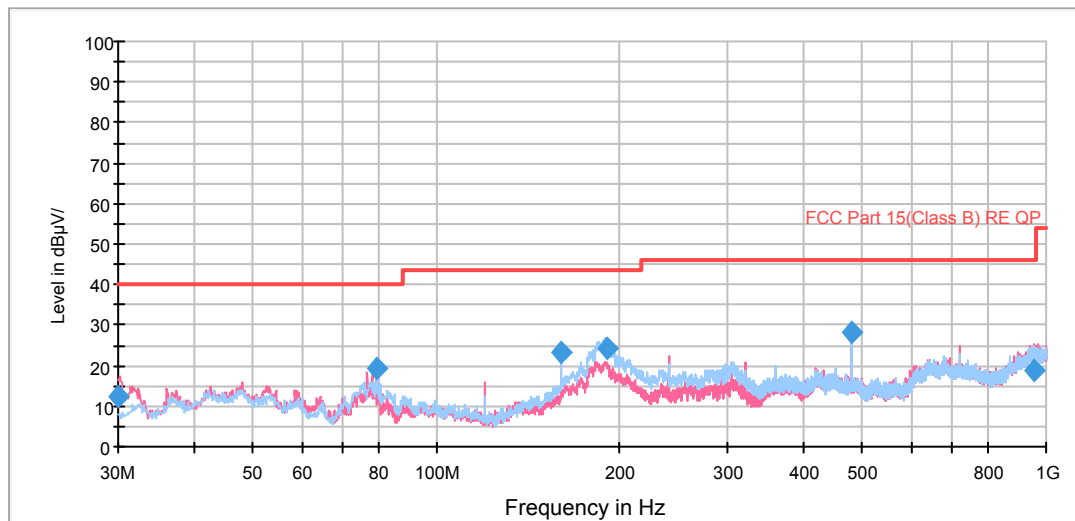
The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

EMCP (3GB+32GB)

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:

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Reading value (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
30.085947	12.6	32.0	100.0	V	0.0	-19.4	27.4	40.0
79.995112	19.1	45.3	225.0	H	22.0	-26.2	20.9	40.0
159.980050	23.4	51.4	225.0	H	109.0	-28.0	20.1	43.5
190.092034	24.3	49.7	195.0	H	92.0	-25.4	19.2	43.5
480.000000	28.3	48.0	120.0	V	0.0	-19.7	17.7	46.0
954.339250	18.7	29.3	195.0	V	27.0	-10.6	27.3	46.0

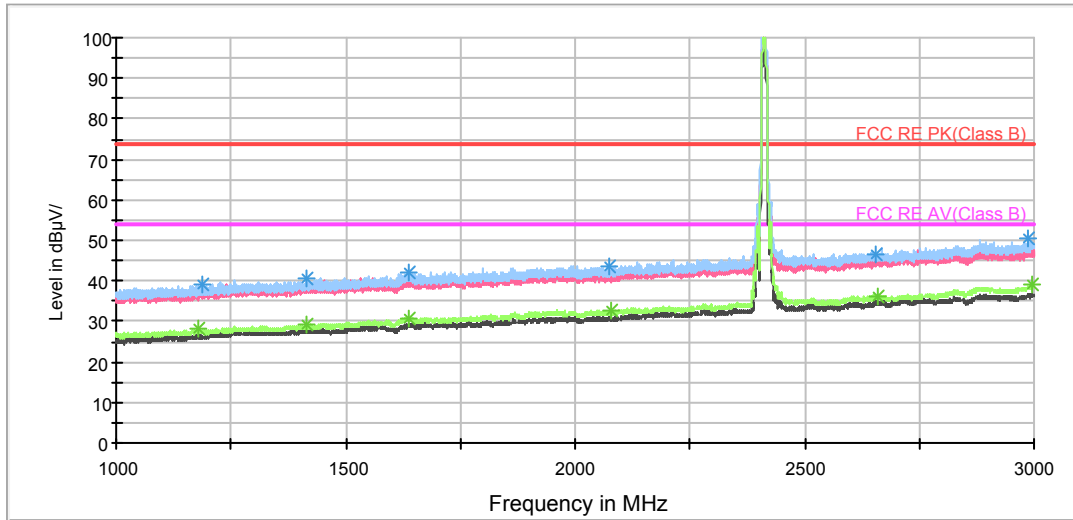
Remark: 1. Quasi-Peak = Reading value + Correction factor

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

3. Margin = Limit – Quasi-Peak

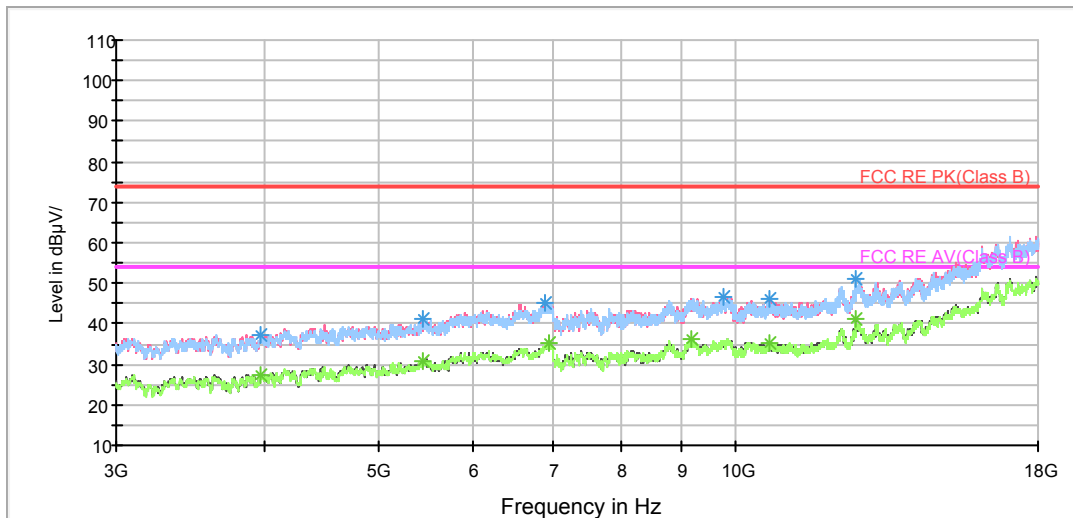
802.11b CH1

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.750000	38.9	100.0	H	3.0	47.0	-8.1	35.1	74
1416.750000	40.7	200.0	H	352.0	47.7	-7.0	33.3	74
1639.250000	42.2	200.0	H	253.0	46.9	-4.7	31.8	74
2073.250000	43.7	100.0	H	39.0	46.8	-3.1	30.3	74
2653.500000	46.6	200.0	H	322.0	46.2	0.4	27.4	74
2985.000000	50.4	200.0	H	299.0	48.2	2.2	23.6	74

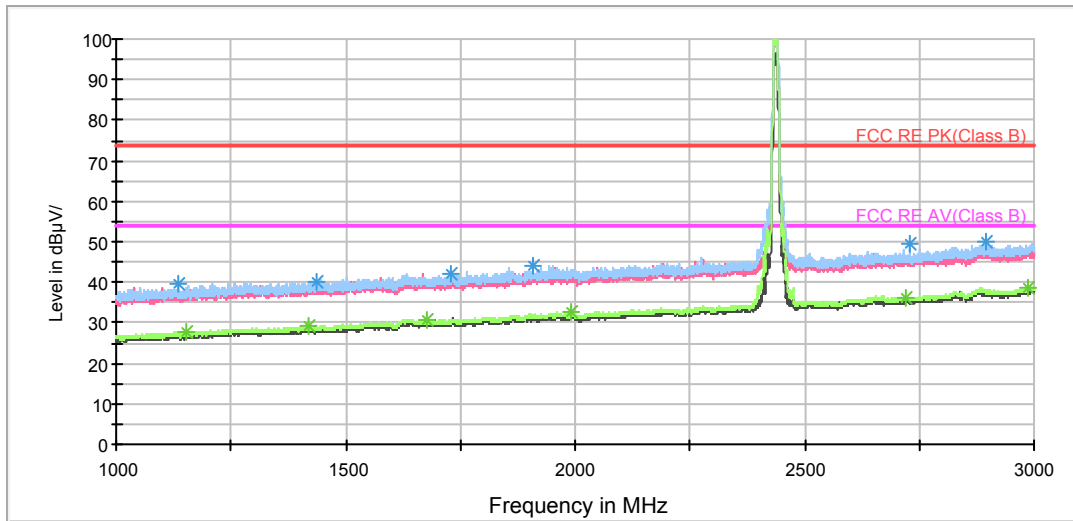
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1177.500000	28.0	200.0	H	299.0	36.0	-8.0	26.0	54
1415.500000	29.4	100.0	H	14.0	36.4	-7.0	24.6	54
1638.500000	30.9	200.0	H	299.0	35.6	-4.7	23.1	54
2079.500000	32.6	200.0	H	219.0	35.6	-3.0	21.4	54
2657.500000	36.2	200.0	H	271.0	35.8	0.4	17.8	54
2994.750000	39.0	200.0	H	0.0	36.7	2.3	15.0	54

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

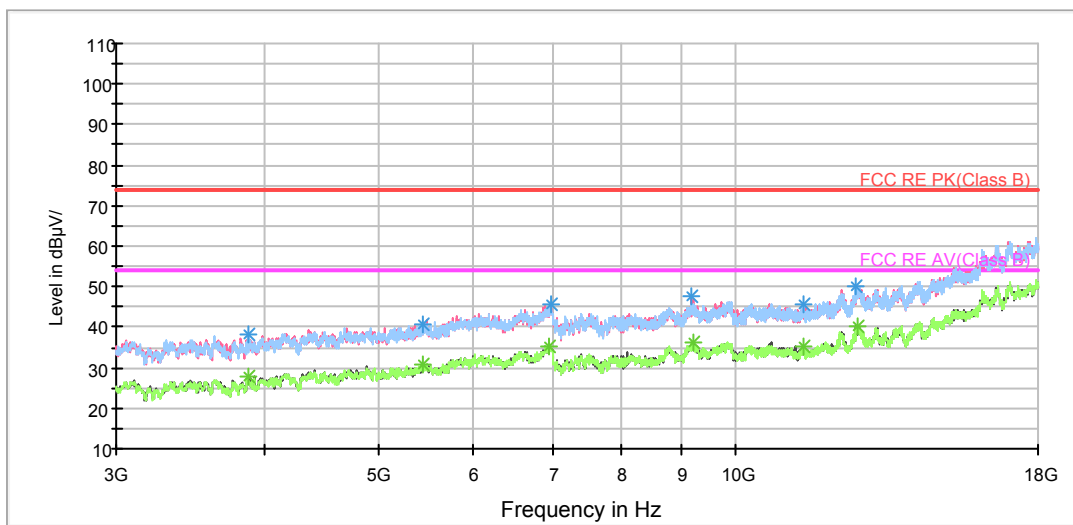
802.11b CH6

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1135.750000	39.5	100.0	H	13.0	48.0	-8.5	34.5	74
1436.000000	40.0	100.0	V	351.0	46.9	-6.9	34.0	74
1730.250000	42.0	200.0	H	287.0	47.0	-5.0	32.0	74
1908.500000	44.1	100.0	H	13.0	47.9	-3.8	29.9	74
2729.750000	49.4	200.0	H	170.0	48.9	0.5	24.6	74
2893.500000	50.1	100.0	H	36.0	48.0	2.1	23.9	74

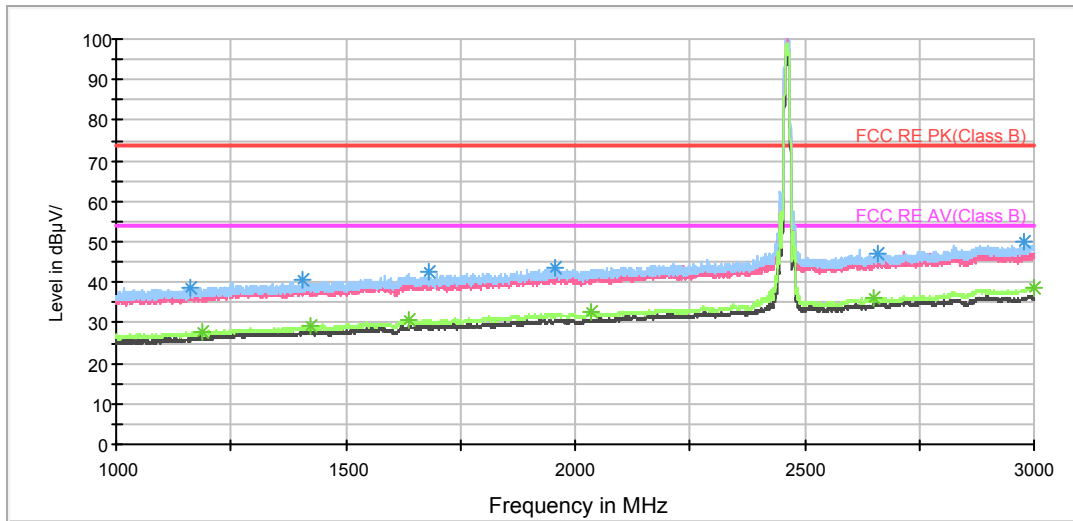
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1151.000000	27.8	200.0	H	0.0	36.3	-8.5	26.2	54
1420.750000	29.1	200.0	H	287.0	36.0	-6.9	24.9	54
1675.250000	30.8	100.0	V	343.0	35.9	-5.1	23.2	54
1990.500000	32.6	100.0	H	91.0	35.9	-3.3	21.4	54
2722.250000	36.1	200.0	H	253.0	35.8	0.3	17.9	54
2988.250000	38.6	200.0	H	305.0	36.4	2.2	15.4	54

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

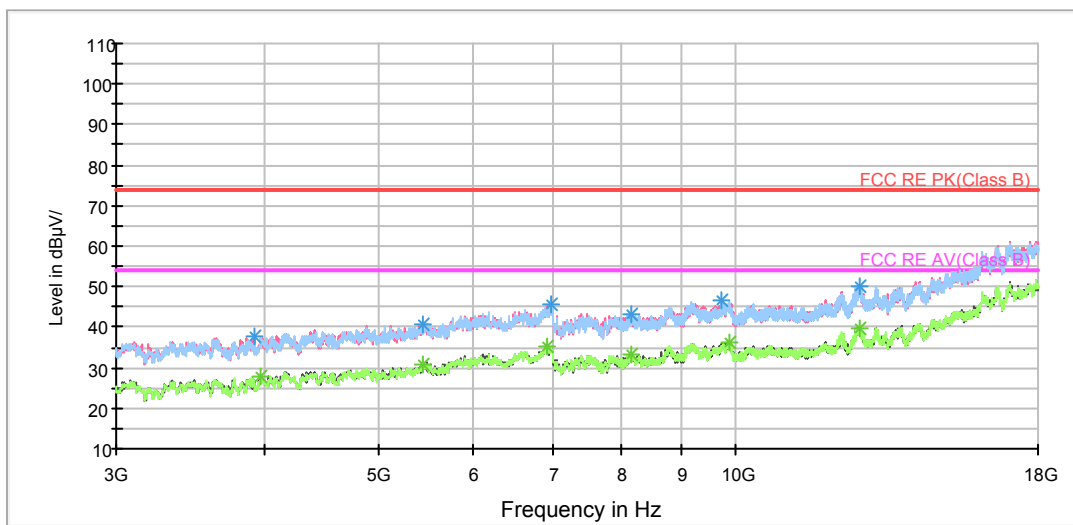
802.11b CH11

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1161.750000	38.8	100.0	H	27.0	47.1	-8.3	35.2	74
1404.250000	40.6	200.0	H	339.0	47.7	-7.1	33.4	74
1682.000000	42.3	100.0	H	50.0	47.3	-5.0	31.7	74
1955.750000	43.7	200.0	H	284.0	47.2	-3.5	30.3	74
2657.750000	47.1	100.0	H	38.0	46.7	0.4	26.9	74
2977.500000	50.2	200.0	H	0.0	48.0	2.2	23.8	74

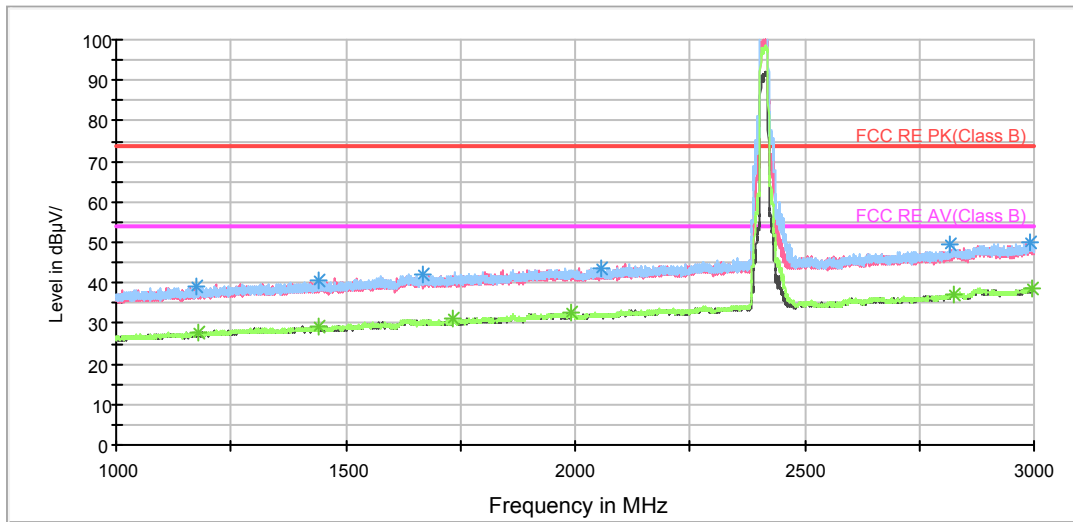
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.750000	27.9	200.0	H	201.0	36.0	-8.1	26.1	54
1425.250000	29.1	100.0	H	38.0	36.0	-6.9	24.9	54
1637.500000	30.8	200.0	H	315.0	35.5	-4.7	23.2	54
2033.000000	32.6	200.0	H	356.0	35.9	-3.3	21.4	54
2651.500000	36.1	100.0	H	45.0	35.7	0.4	17.9	54
2998.750000	38.7	200.0	H	277.0	36.4	2.3	15.3	54

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

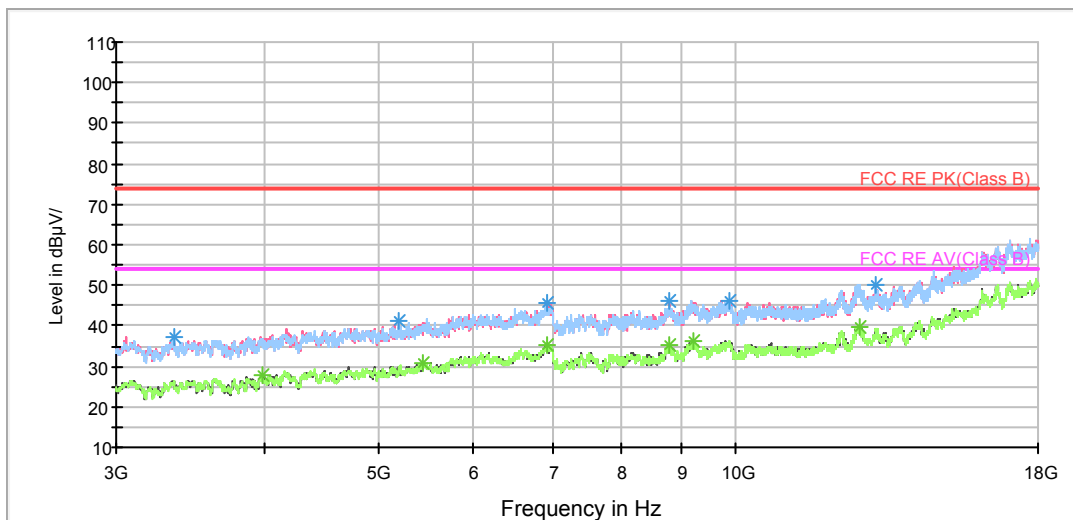
802.11g CH1

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1175.500000	38.9	200.0	V	0.0	46.9	-8.0	35.1	74
1439.500000	40.7	200.0	V	209.0	47.6	-6.9	33.3	74
1670.250000	41.9	200.0	V	86.0	47.0	-5.1	32.1	74
2054.750000	43.7	200.0	H	271.0	46.9	-3.2	30.3	74
2817.500000	49.3	200.0	H	224.0	47.8	1.5	24.7	74
2989.750000	49.9	200.0	H	151.0	47.7	2.2	24.1	74

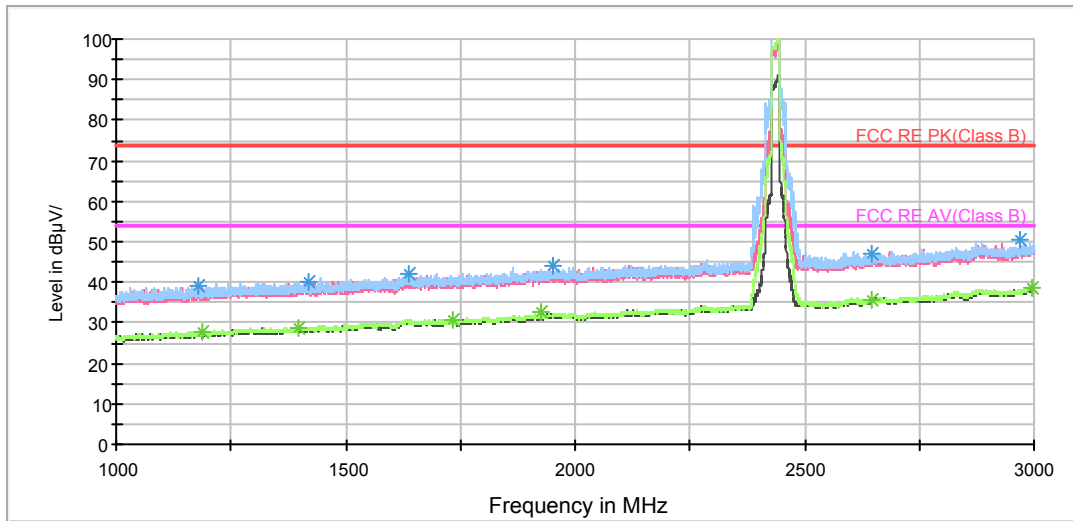
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1177.500000	27.9	100.0	H	260.0	35.9	-8.0	26.1	54
1440.500000	29.1	200.0	V	164.0	36.0	-6.9	24.9	54
1731.500000	30.9	200.0	H	258.0	35.7	-4.8	23.1	54
1993.250000	32.5	100.0	H	99.0	35.8	-3.3	21.5	54
2823.500000	37.2	200.0	V	51.0	35.6	1.6	16.8	54
2997.750000	38.8	200.0	H	242.0	36.5	2.3	15.2	54

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

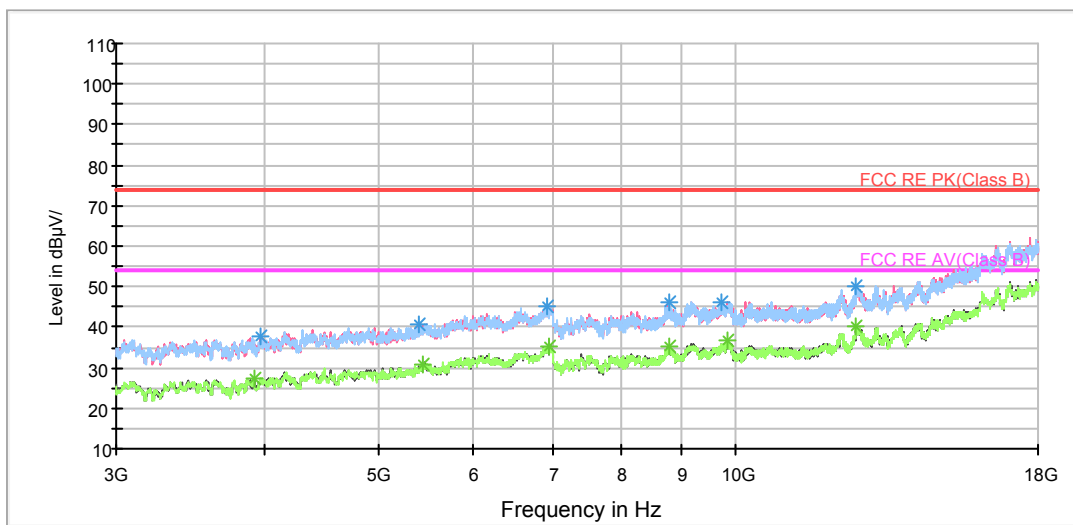
802.11g CH6

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1177.250000	38.9	200.0	H	224.0	46.9	-8.0	35.1	74
1418.000000	40.0	200.0	H	153.0	46.9	-6.9	34.0	74
1638.500000	42.1	200.0	H	0.0	46.8	-4.7	31.9	74
1951.000000	44.2	200.0	V	341.0	47.8	-3.6	29.8	74
2645.500000	46.9	200.0	V	298.0	46.6	0.3	27.1	74
2967.500000	50.4	200.0	V	330.0	48.2	2.2	23.6	74

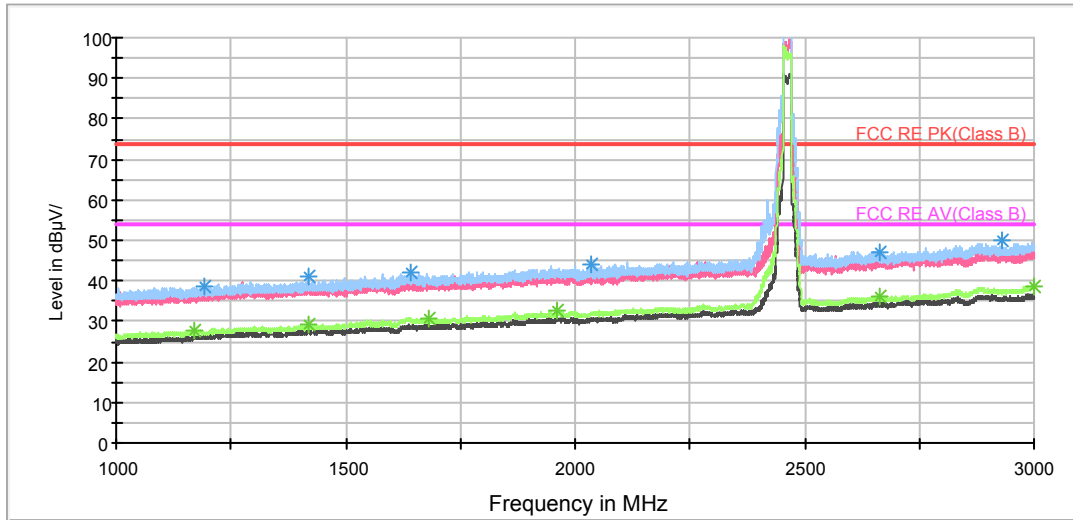
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.750000	27.9	200.0	H	0.0	36.0	-8.1	26.1	54
1397.750000	28.9	200.0	H	66.0	36.0	-7.1	25.1	54
1731.500000	30.9	200.0	H	142.0	35.7	-4.8	23.1	54
1927.250000	32.6	200.0	H	267.0	36.3	-3.7	21.4	54
2648.250000	35.8	200.0	V	347.0	35.4	0.4	18.2	54
2996.750000	38.7	200.0	V	347.0	36.4	2.3	15.3	54

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

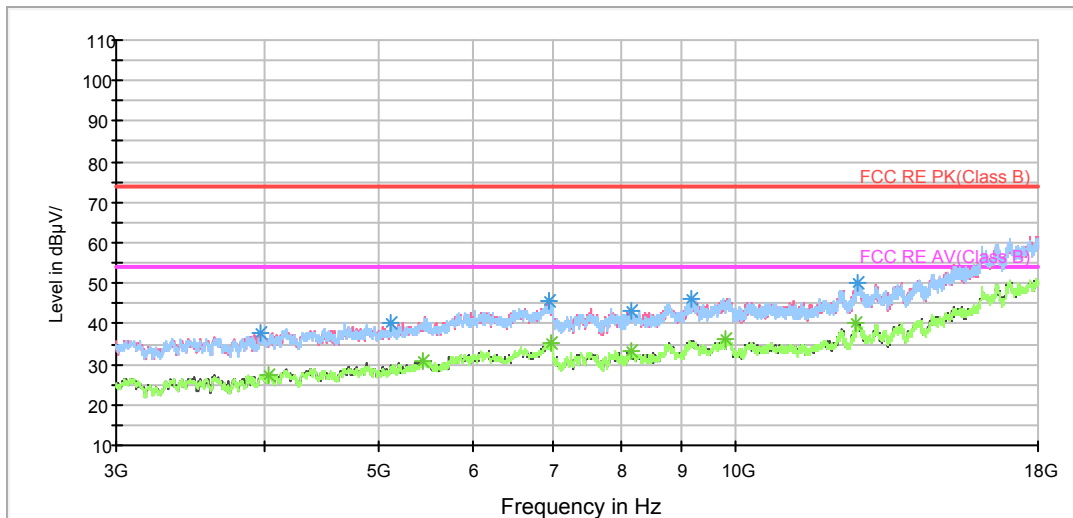
802.11g CH11

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1190.750000	38.8	200.0	H	38.0	47.0	-8.2	35.2	74
1419.250000	40.9	200.0	H	61.0	47.8	-6.9	33.1	74
1641.000000	41.9	200.0	H	113.0	46.6	-4.7	32.1	74
2037.000000	44.0	200.0	H	0.0	47.3	-3.3	30.0	74
2663.500000	46.8	200.0	H	154.0	46.5	0.3	27.2	74
2929.500000	50.0	200.0	H	0.0	48.3	1.7	24.0	74

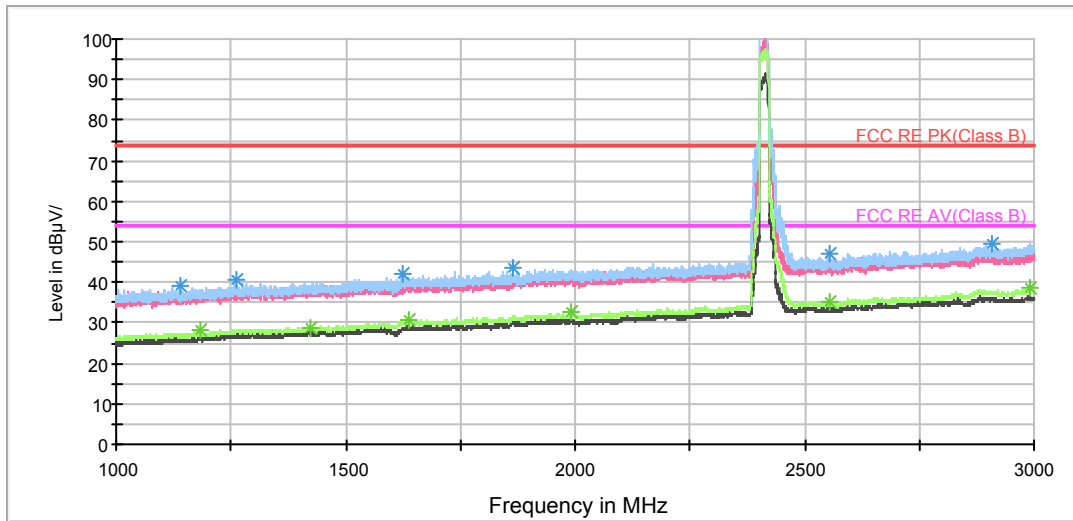
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1168.250000	27.8	200.0	H	238.0	35.9	-8.1	26.2	54
1420.750000	29.0	200.0	H	95.0	35.9	-6.9	25.0	54
1680.500000	30.8	200.0	H	14.0	35.9	-5.1	23.2	54
1961.750000	32.6	200.0	H	0.0	35.8	-3.2	21.4	54
2664.250000	36.3	200.0	H	143.0	36.0	0.3	17.7	54
2999.250000	38.7	200.0	H	55.0	36.4	2.3	15.3	54

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

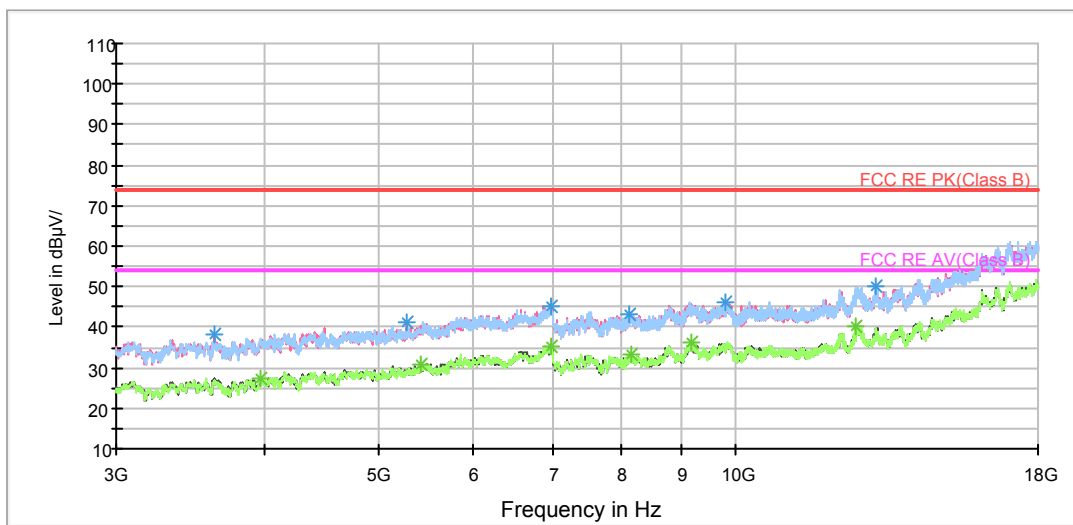
802.11n (HT20) CH1

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1137.750000	39.3	200.0	H	14.0	47.8	-8.5	34.7	74
1261.750000	40.4	200.0	H	38.0	48.2	-7.8	33.6	74
1626.000000	42.0	200.0	H	67.0	46.8	-4.8	32.0	74
1864.750000	43.6	200.0	H	121.0	47.2	-3.6	30.4	74
2555.000000	47.2	200.0	H	55.0	47.7	-0.5	26.8	74
2908.500000	49.7	200.0	H	0.0	47.8	1.9	24.3	74

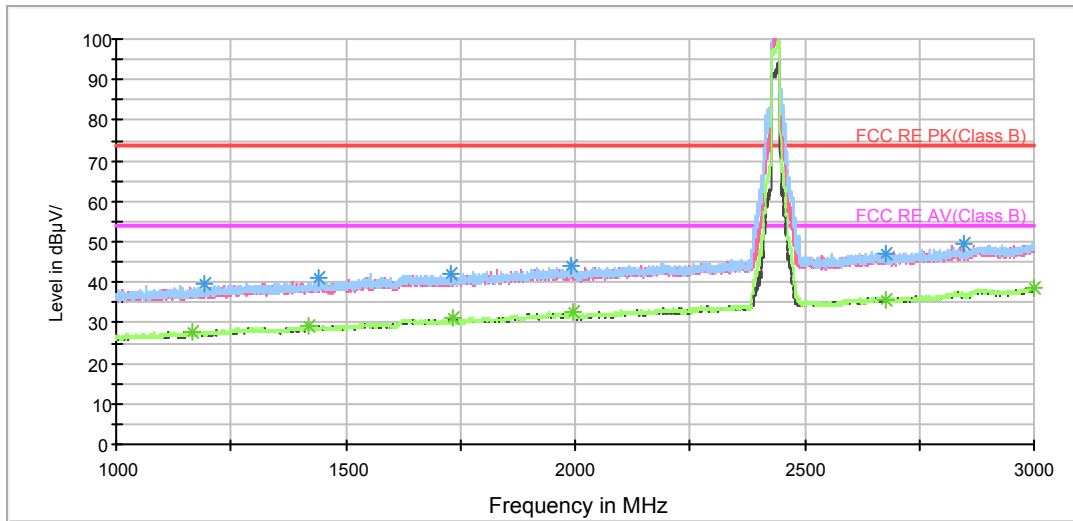
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1184.000000	28.0	200.0	H	67.0	36.1	-8.1	26.0	54
1422.750000	29.0	200.0	H	14.0	35.9	-6.9	25.0	54
1637.750000	30.7	200.0	H	127.0	35.4	-4.7	23.3	54
1992.250000	32.7	200.0	H	0.0	36.0	-3.3	21.3	54
2555.250000	35.0	200.0	H	162.0	35.5	-0.5	19.0	54
2993.250000	38.4	200.0	H	155.0	36.2	2.2	15.6	54

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

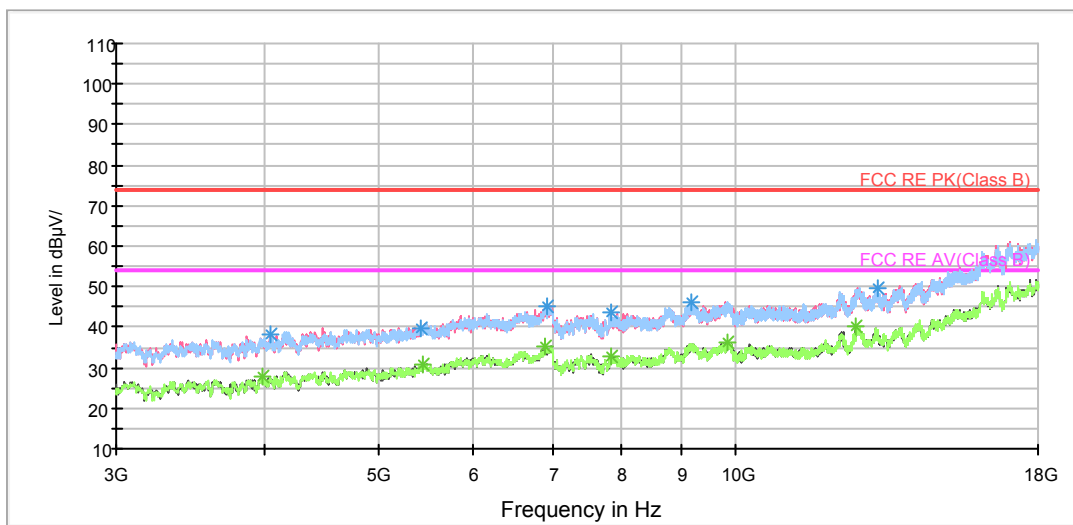
802.11n (HT20) CH6

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1190.250000	39.4	100.0	H	234.0	47.6	-8.2	34.6	74
1440.000000	41.0	200.0	H	245.0	47.9	-6.9	33.0	74
1727.750000	41.9	200.0	H	131.0	47.0	-5.1	32.1	74
1989.250000	44.0	200.0	H	137.0	47.4	-3.4	30.0	74
2675.250000	47.1	100.0	H	97.0	46.9	0.2	26.9	74
2845.000000	49.5	200.0	V	148.0	48.2	1.3	24.5	74

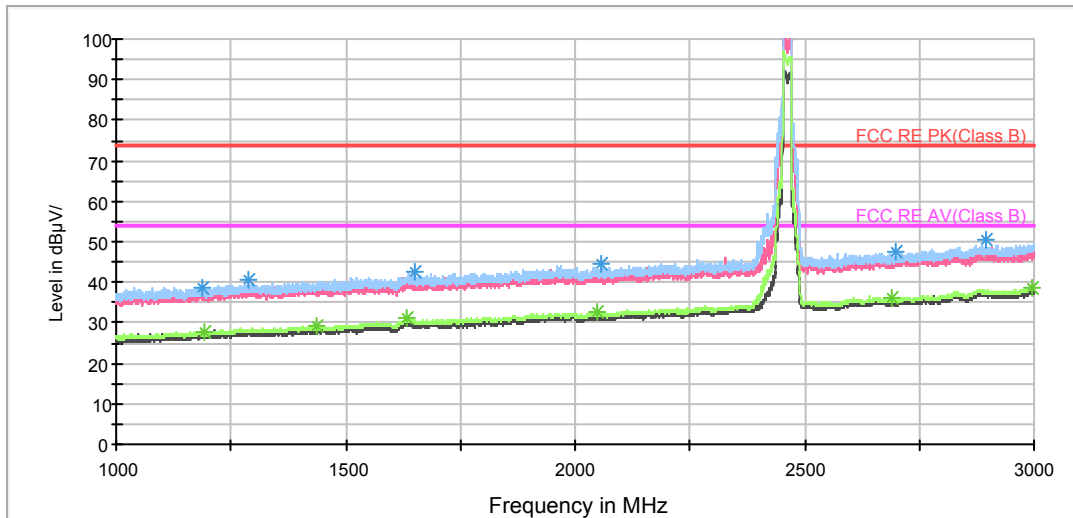
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1164.500000	27.8	100.0	H	0.0	36.0	-8.2	26.2	54
1419.500000	29.1	200.0	H	332.0	36.0	-6.9	24.9	54
1731.750000	31.2	200.0	V	41.0	36.0	-4.8	22.8	54
1995.250000	32.6	100.0	H	228.0	35.8	-3.2	21.4	54
2675.000000	35.6	200.0	V	25.0	35.4	0.2	18.4	54
3000.000000	38.7	100.0	H	67.0	36.4	2.3	15.3	54

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

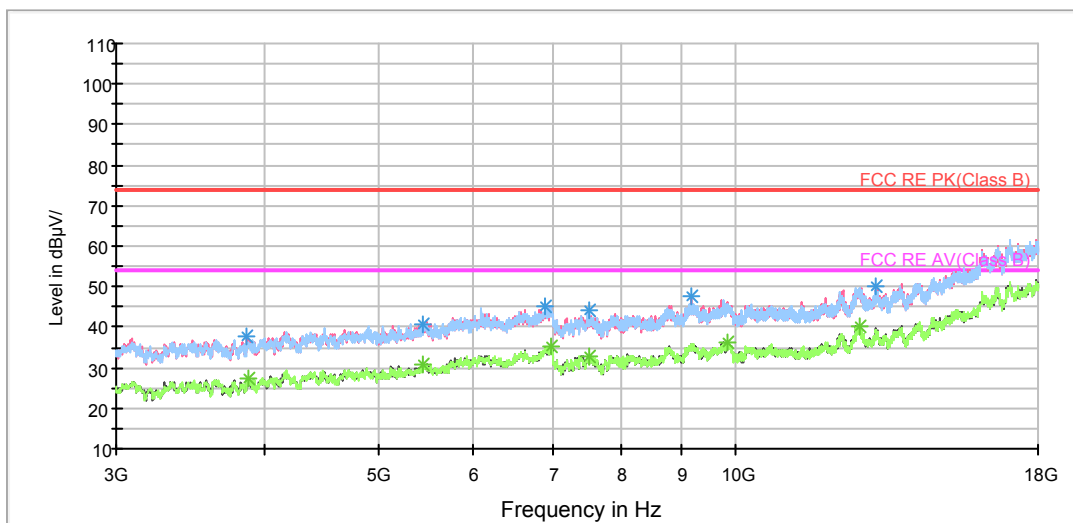
802.11n (HT20) CH11

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1189.250000	38.6	100.0	H	63.0	46.8	-8.2	35.4	74
1289.000000	40.5	100.0	H	33.0	48.2	-7.7	33.5	74
1651.750000	42.3	100.0	H	140.0	47.4	-5.1	31.7	74
2055.250000	44.7	100.0	H	175.0	47.9	-3.2	29.3	74
2700.500000	47.7	200.0	H	208.0	47.7	0.0	26.3	74
2895.000000	50.2	200.0	H	120.0	48.1	2.1	23.8	74

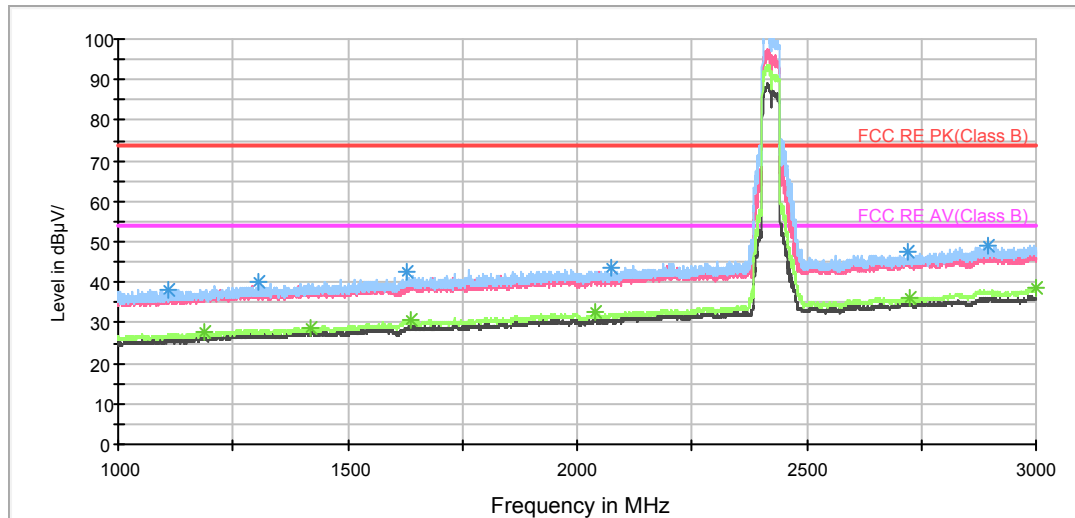
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1190.750000	27.7	200.0	H	339.0	35.9	-8.2	26.3	54
1438.250000	29.2	200.0	H	0.0	36.1	-6.9	24.8	54
1632.500000	30.9	100.0	H	133.0	35.6	-4.7	23.1	54
2046.500000	32.4	100.0	H	163.0	35.6	-3.2	21.6	54
2690.250000	36.1	100.0	H	280.0	36.0	0.1	17.9	54
2997.250000	38.6	200.0	H	179.0	36.3	2.3	15.4	54

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

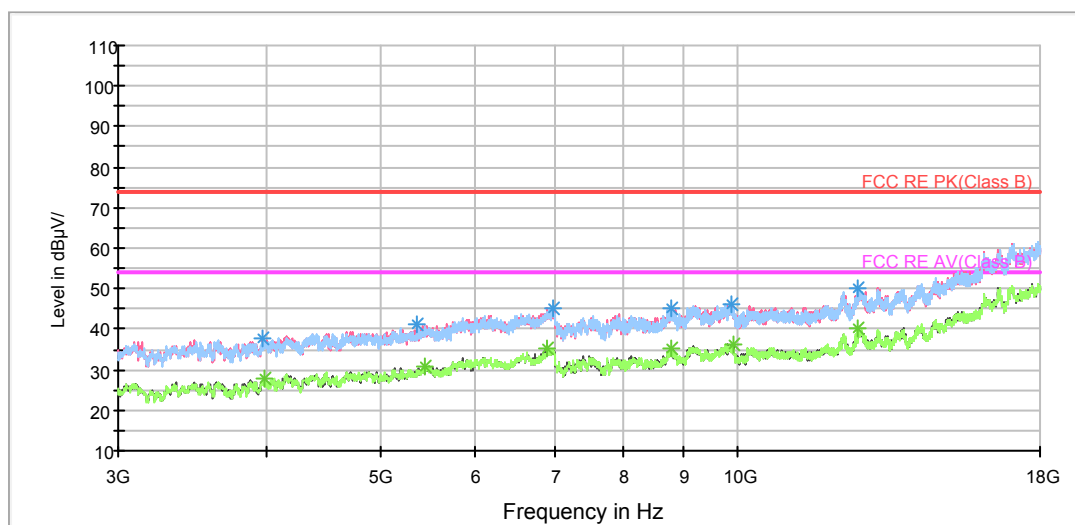
802.11n (HT40) CH3

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1110.750000	38.3	200.0	H	0.0	47.0	-8.7	35.7	74
1304.250000	40.3	200.0	H	0.0	48.1	-7.8	33.7	74
1629.750000	42.4	200.0	H	40.0	47.1	-4.7	31.6	74
2076.250000	43.7	200.0	H	0.0	46.7	-3.0	30.3	74
2722.000000	47.3	200.0	H	0.0	47.0	0.3	26.7	74
2897.250000	49.2	200.0	H	0.0	47.1	2.1	24.8	74

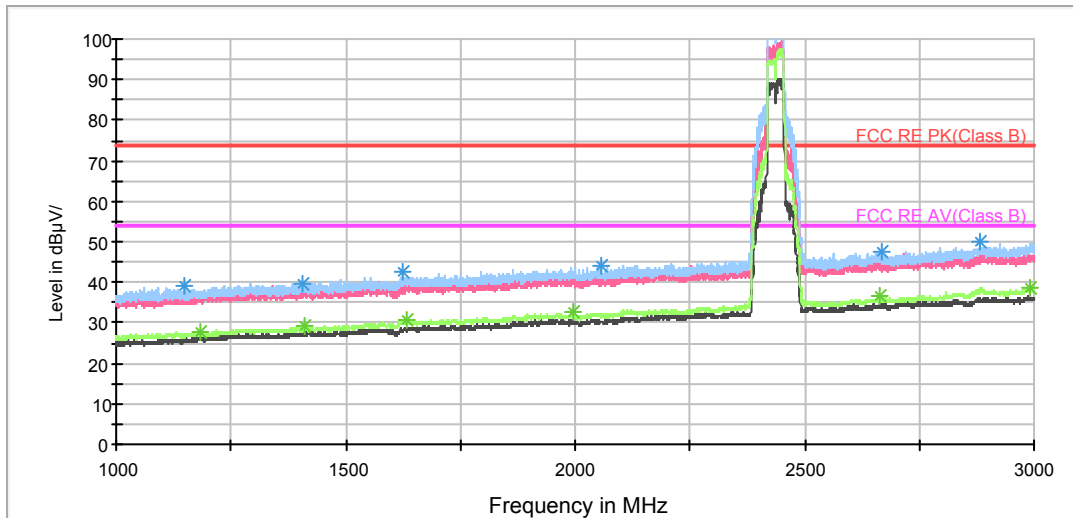
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1186.750000	27.8	200.0	H	16.0	35.9	-8.1	26.2	54
1420.750000	28.8	200.0	H	0.0	35.7	-6.9	25.2	54
1638.000000	30.8	200.0	H	102.0	35.5	-4.7	23.2	54
2040.000000	32.5	200.0	H	28.0	35.7	-3.2	21.5	54
2998.250000	38.9	200.0	H	0.0	36.6	2.3	15.1	54
2725.750000	36.1	200.0	H	95.0	35.7	0.4	17.9	54

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

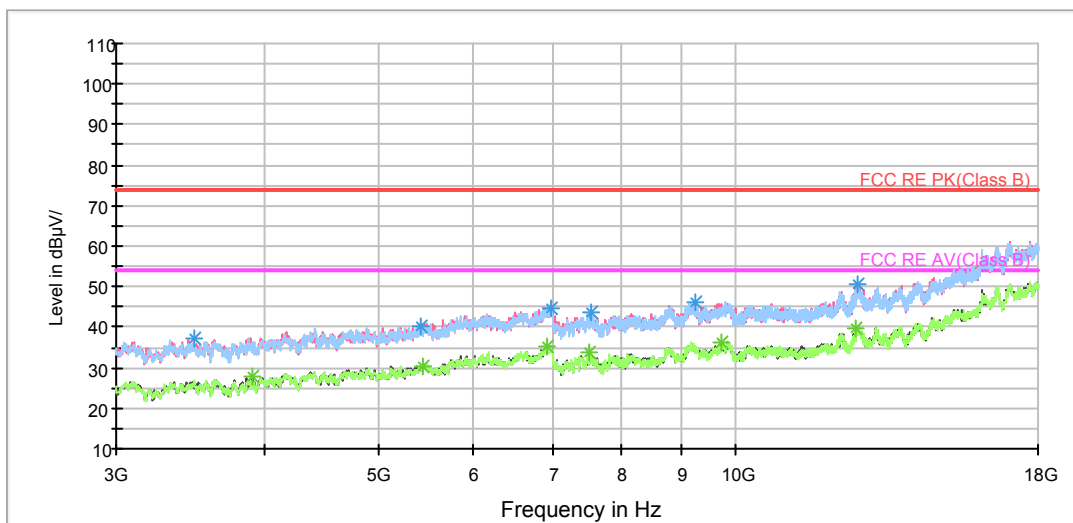
802.11n (HT40) CH6

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1146.750000	38.9	200.0	H	54.0	47.4	-8.5	35.1	74
1404.500000	39.8	200.0	H	54.0	46.9	-7.1	34.2	74
1623.500000	42.6	200.0	H	140.0	47.4	-4.8	31.4	74
2055.750000	44.0	200.0	H	273.0	47.2	-3.2	30.0	74
2668.250000	47.8	200.0	H	26.0	47.5	0.3	26.2	74
2880.250000	50.2	200.0	H	15.0	47.9	2.3	23.8	74

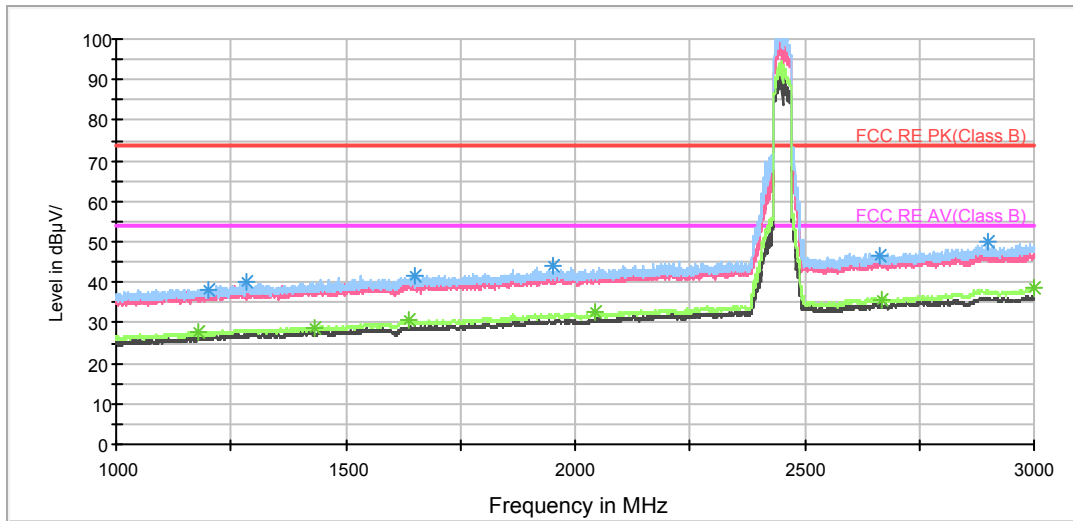
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.500000	27.7	200.0	H	0.0	35.8	-8.1	26.3	54
1411.250000	29.0	200.0	H	111.0	36.1	-7.1	25.0	54
1632.500000	30.7	200.0	H	0.0	35.4	-4.7	23.3	54
1993.500000	32.5	200.0	H	158.0	35.8	-3.3	21.5	54
2664.250000	36.6	200.0	H	3.0	36.3	0.3	17.4	54
2993.000000	38.8	200.0	H	0.0	36.6	2.2	15.2	54

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

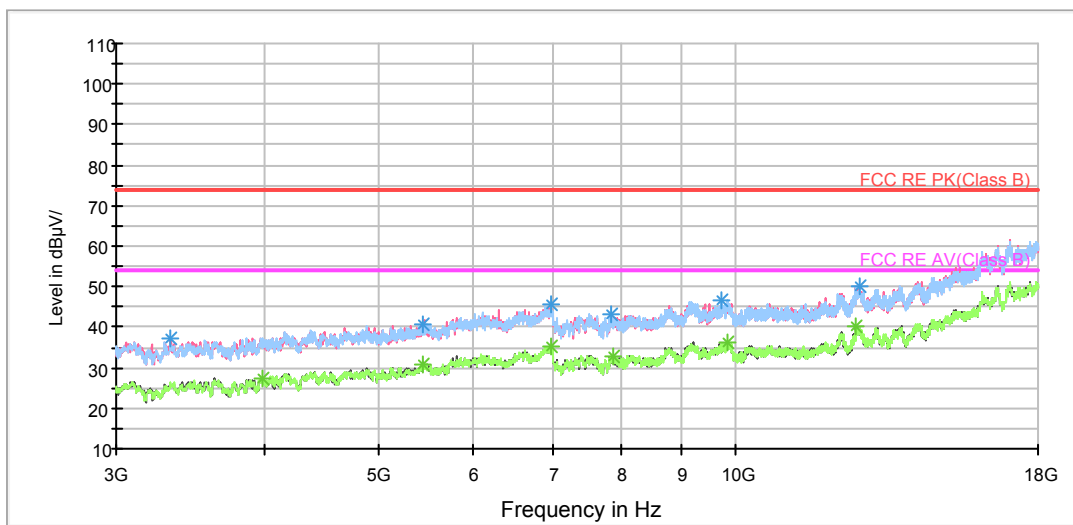
802.11n (HT40) CH9

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.500000	38.2	100.0	H	6.0	46.4	-8.2	35.8	74
1284.000000	40.3	200.0	H	155.0	48.0	-7.7	33.7	74
1652.000000	41.7	100.0	H	35.0	46.8	-5.1	32.3	74
1951.250000	44.0	200.0	H	274.0	47.6	-3.6	30.0	74
2662.250000	46.8	200.0	H	0.0	46.5	0.3	27.2	74
2899.250000	49.8	200.0	H	292.0	47.7	2.1	24.2	74

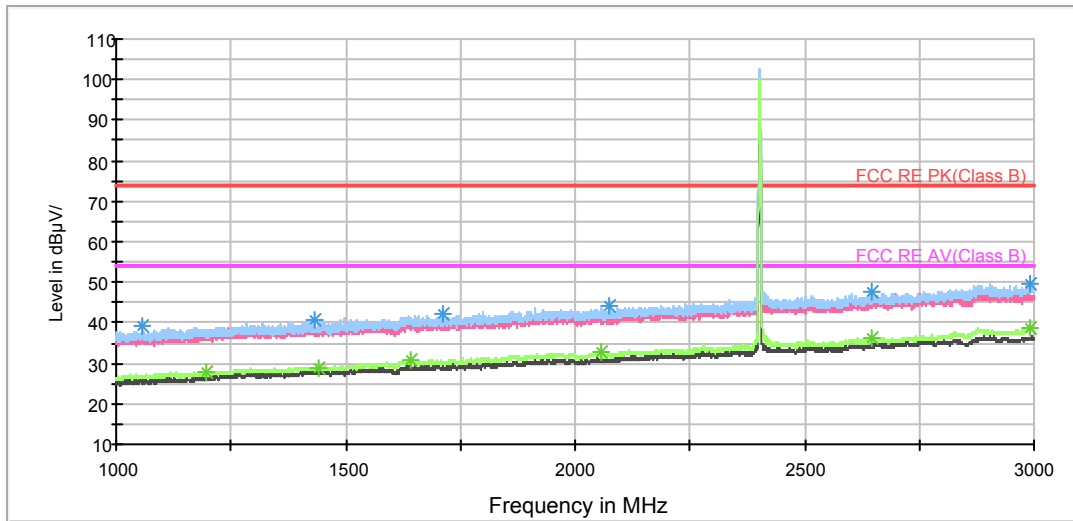
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1177.750000	27.8	200.0	H	0.0	35.8	-8.0	26.2	54
1433.250000	28.9	100.0	H	73.0	35.8	-6.9	25.1	54
1638.500000	30.8	200.0	H	280.0	35.5	-4.7	23.2	54
2045.000000	32.6	200.0	H	303.0	35.8	-3.2	21.4	54
2668.250000	35.7	200.0	H	352.0	35.4	0.3	18.3	54
2998.750000	38.6	200.0	H	280.0	36.3	2.3	15.4	54

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

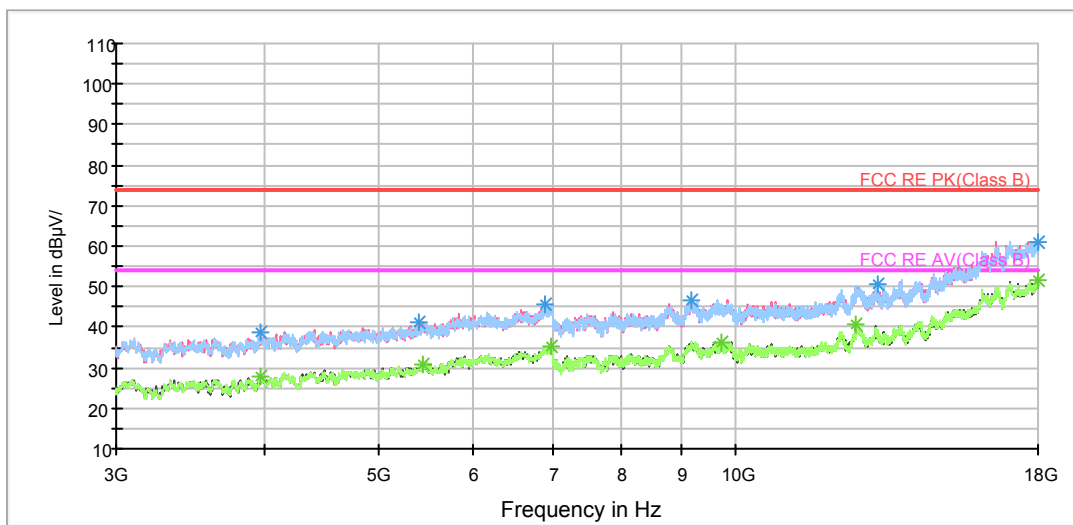
BLE-Channel 0

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1055.250000	39.1	100.0	H	94.0	48.1	-9.0	34.9	74
1430.250000	40.7	100.0	H	0.0	47.6	-6.9	33.3	74
1711.000000	42.2	100.0	H	36.0	47.0	-4.8	31.8	74
2074.500000	44.1	100.0	H	71.0	47.2	-3.1	29.9	74
2645.250000	47.4	100.0	H	77.0	47.1	0.3	26.6	74
2990.250000	49.6	100.0	H	107.0	47.4	2.2	24.4	74

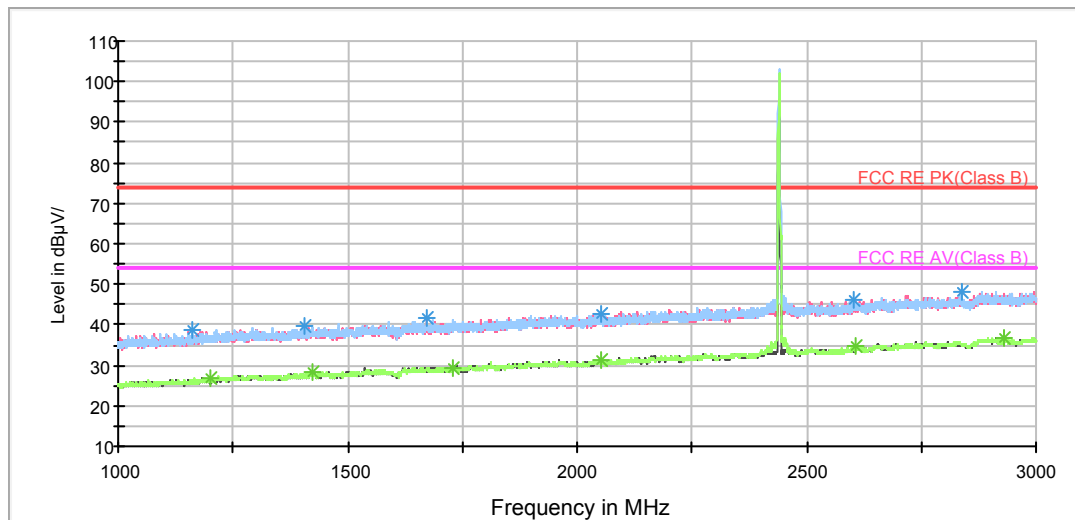
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1198.000000	27.8	200.0	H	357.0	36.0	-8.2	26.2	54
1440.750000	29.1	100.0	H	59.0	36.0	-6.9	24.9	54
1642.500000	30.8	100.0	H	54.0	35.6	-4.8	23.2	54
2057.000000	32.5	100.0	H	30.0	35.7	-3.2	21.5	54
2644.250000	36.5	200.0	H	327.0	36.2	0.3	17.5	54
2992.750000	39.0	100.0	H	2.0	36.8	2.2	15.0	54

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

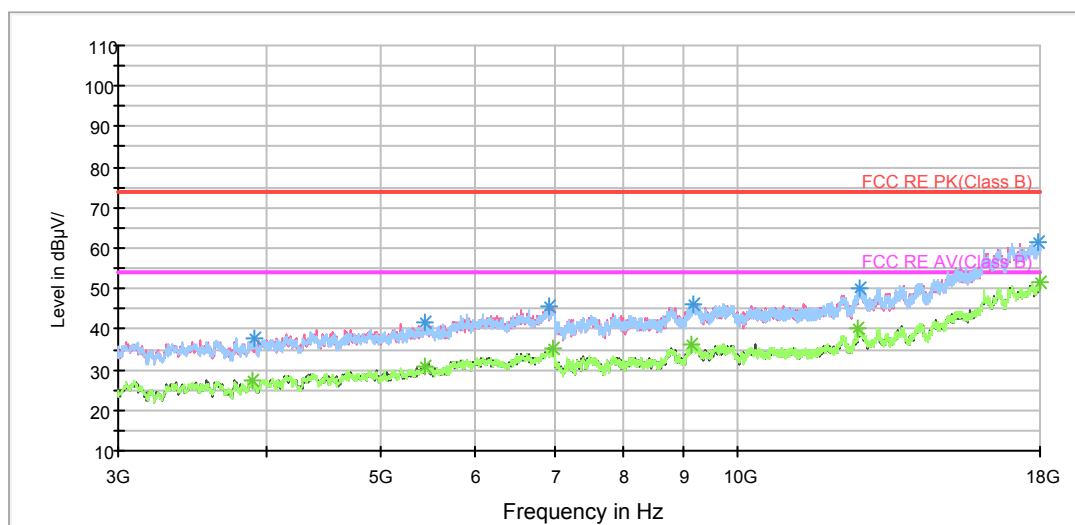
BLE-Channel 19

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1159.750000	38.6	100.0	H	180.0	47.0	-8.4	35.4	74
1405.750000	39.6	200.0	H	354.0	46.7	-7.1	34.4	74
1672.000000	41.7	100.0	V	167.0	46.8	-5.1	32.3	74
2053.250000	42.7	200.0	V	46.0	45.9	-3.2	31.3	74
2602.500000	46.0	100.0	H	174.0	45.7	0.3	28.0	74
2837.750000	48.3	100.0	V	155.0	46.8	1.5	25.7	74

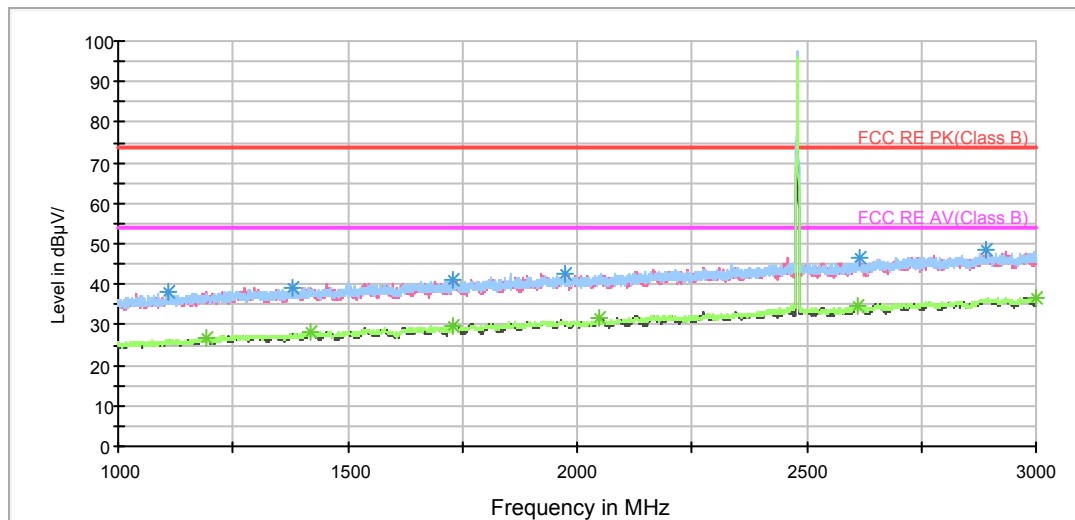
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1200.000000	26.7	100.0	V	0.0	34.9	-8.2	27.3	54
1422.500000	28.2	200.0	V	239.0	35.1	-6.9	25.8	54
1730.750000	29.5	200.0	H	210.0	34.4	-4.9	24.5	54
2052.000000	31.3	200.0	V	99.0	34.5	-3.2	22.7	54
2606.250000	34.9	200.0	V	111.0	34.6	0.3	19.1	54
2931.000000	36.6	200.0	V	11.0	34.8	1.8	17.4	54

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

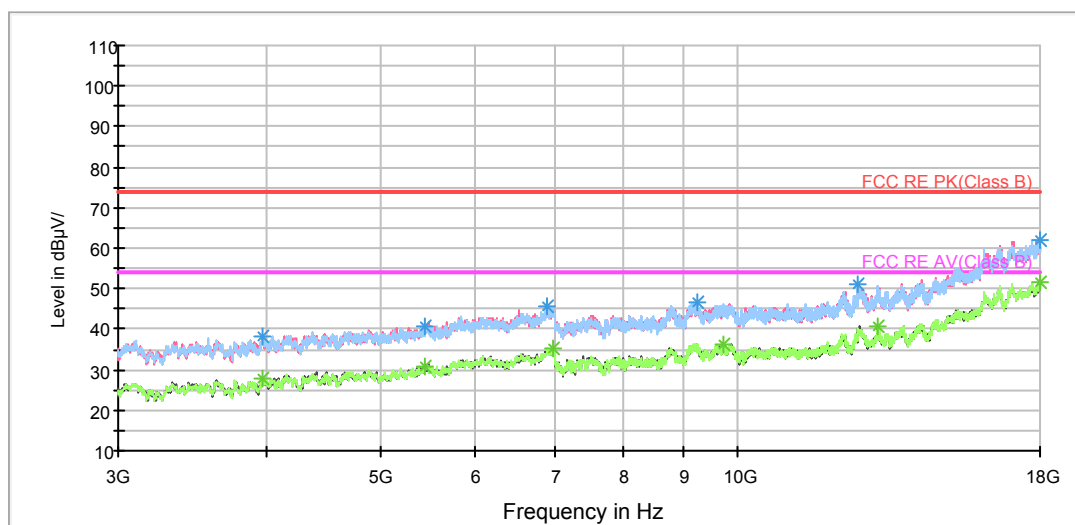
BLE-Channel 39

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1108.500000	38.1	100.0	V	0.0	46.8	-8.7	35.9	74
1378.750000	39.3	100.0	V	87.0	46.3	-7.0	34.7	74
1730.750000	41.2	200.0	H	188.0	46.1	-4.9	32.8	74
1975.250000	42.5	200.0	H	0.0	46.1	-3.6	31.5	74
2616.750000	46.3	200.0	H	79.0	46.3	0.0	27.7	74
2889.750000	48.3	100.0	V	164.0	46.1	2.2	25.7	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)
1192.000000	26.7	100.0	H	173.0	34.9	-8.2	27.3	54
1418.000000	28.1	200.0	V	147.0	35.0	-6.9	25.9	54
1730.750000	29.6	100.0	V	337.0	34.5	-4.9	24.4	54
2048.000000	31.5	100.0	V	129.0	34.7	-3.2	22.5	54
2609.750000	34.8	100.0	V	356.0	34.6	0.2	19.2	54
2999.250000	36.6	100.0	H	15.0	34.3	2.3	17.4	54

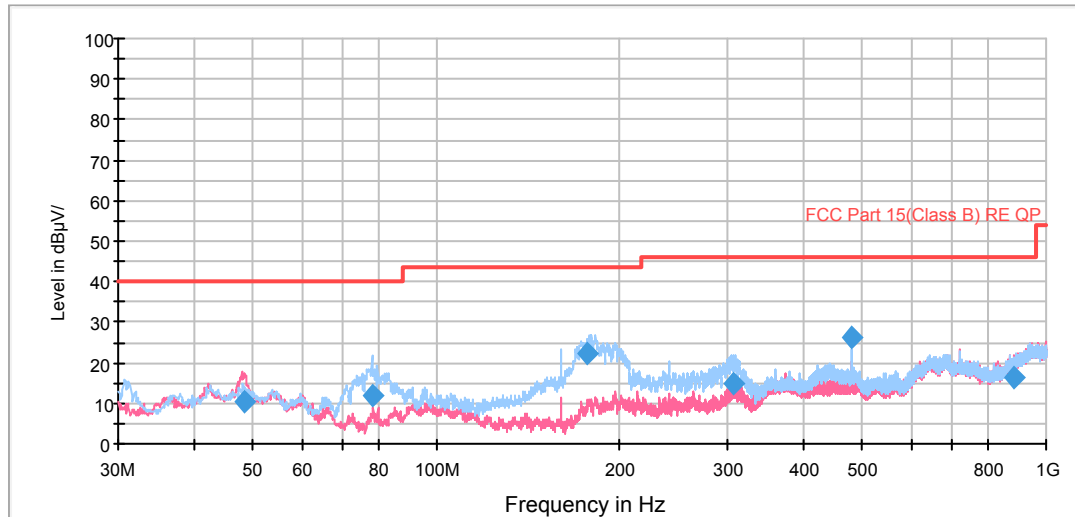
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

LPDDR3+eMMC (4GB+64GB)

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:

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Reading value (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
48.387978	10.2	28.4	195.0	V	339.0	-18.2	29.8	40.0
78.261856	11.8	38.3	225.0	H	305.0	-26.5	28.2	40.0
176.909772	22.1	50.1	100.0	H	115.0	-28.0	21.4	43.5
307.659000	15.0	37.2	208.0	H	325.0	-22.2	31.0	46.0
479.998750	26.4	46.1	225.0	H	92.0	-19.7	19.6	46.0
888.989750	16.2	30.0	225.0	V	166.0	-13.8	29.8	46.0

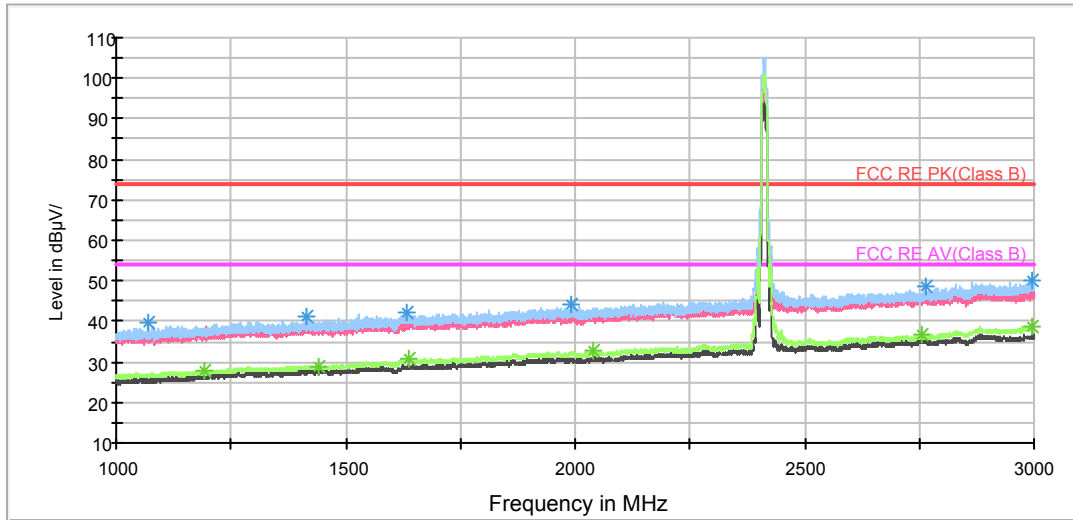
Remark: 1. Quasi-Peak = Reading value + Correction factor

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

3. Margin = Limit – Quasi-Peak

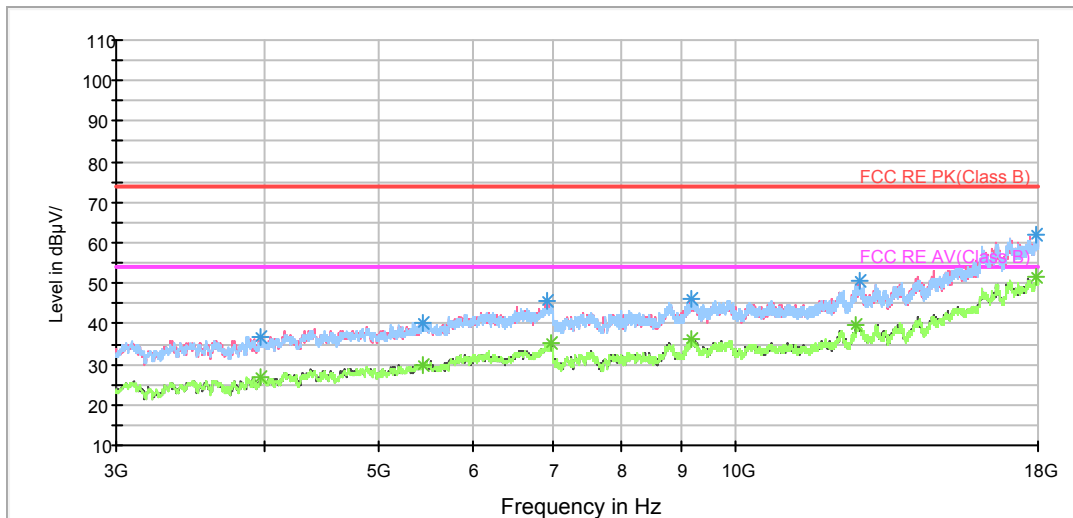
802.11b CH1

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1069.750000	39.5	200.0	H	0.0	48.3	-8.8	34.5	74
1416.000000	41.0	200.0	H	277.0	48.0	-7.0	33.0	74
1633.000000	42.1	100.0	H	7.0	46.8	-4.7	31.9	74
1992.750000	44.1	100.0	H	100.0	47.4	-3.3	29.9	74
2763.500000	48.5	100.0	H	0.0	47.6	0.9	25.5	74
2997.000000	50.1	200.0	H	319.0	47.8	2.3	23.9	74

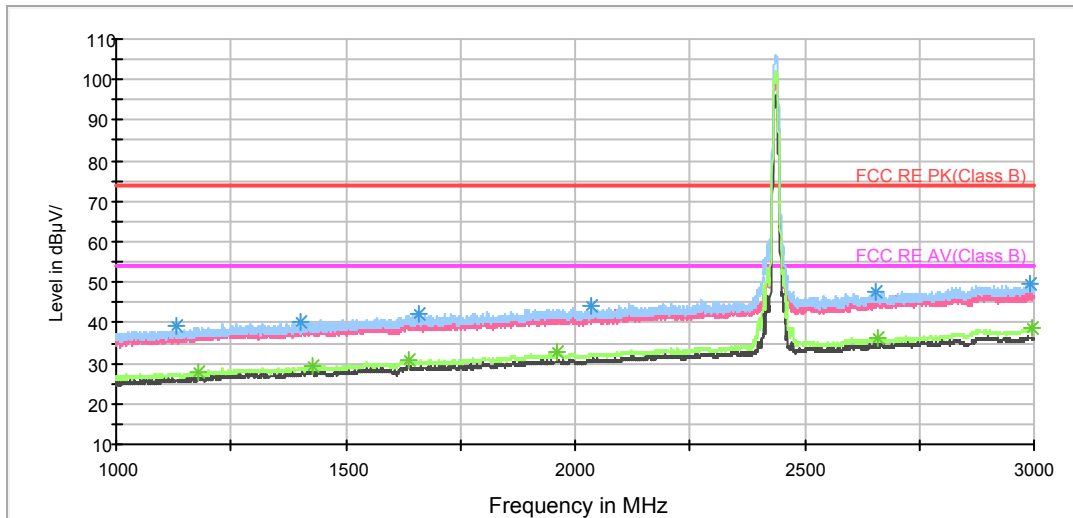
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1191.500000	27.7	200.0	H	235.0	35.9	-8.2	26.3	54
1442.000000	29.0	100.0	H	19.0	35.8	-6.8	25.0	54
1636.750000	30.9	200.0	H	330.0	35.6	-4.7	23.1	54
2040.250000	32.7	200.0	H	343.0	35.9	-3.2	21.3	54
2756.750000	36.8	200.0	H	330.0	35.9	0.9	17.2	54
2997.000000	38.7	100.0	H	0.0	36.4	2.3	15.3	54

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

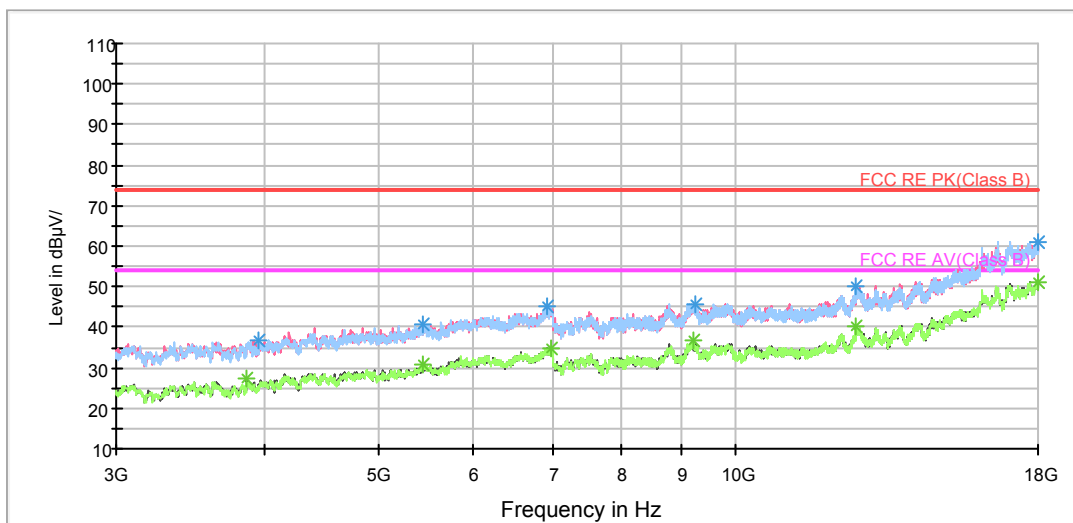
802.11b CH6

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1130.000000	39.2	100.0	H	38.0	47.5	-8.3	34.8	74
1402.250000	40.3	200.0	H	296.0	47.4	-7.1	33.7	74
1658.500000	42.4	100.0	H	0.0	47.6	-5.2	31.6	74
2036.250000	44.1	100.0	H	20.0	47.4	-3.3	29.9	74
2654.750000	47.4	100.0	H	131.0	47.0	0.4	26.6	74
2992.500000	49.5	100.0	H	144.0	47.3	2.2	24.5	74

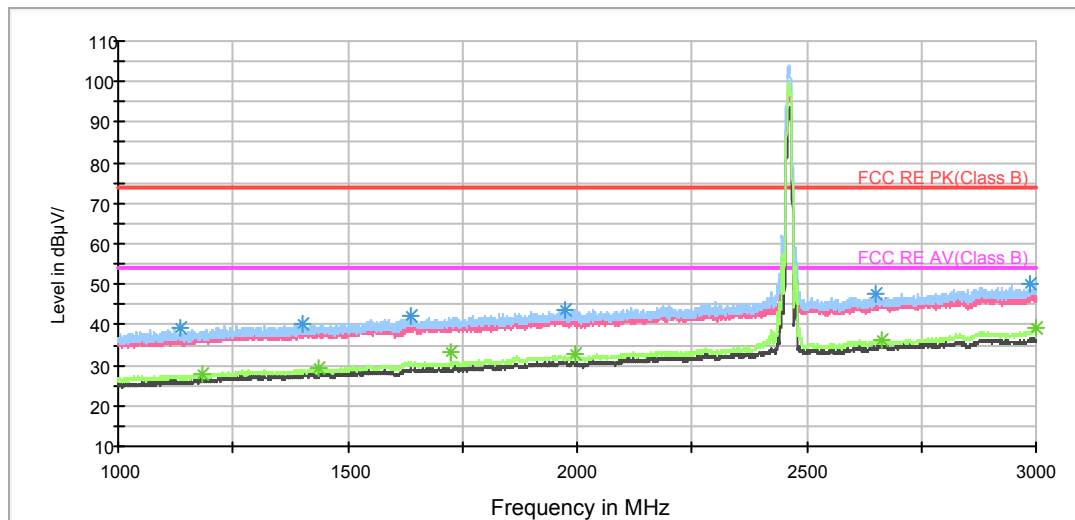
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1177.750000	27.7	200.0	H	349.0	35.7	-8.0	26.3	54
1427.500000	29.4	100.0	H	55.0	36.3	-6.9	24.6	54
1636.000000	31.0	200.0	H	337.0	35.7	-4.7	23.0	54
1961.000000	32.6	100.0	H	0.0	35.8	-3.2	21.4	54
2658.250000	36.4	100.0	H	84.0	36.0	0.4	17.6	54
2995.000000	38.9	200.0	H	163.0	36.6	2.3	15.1	54

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

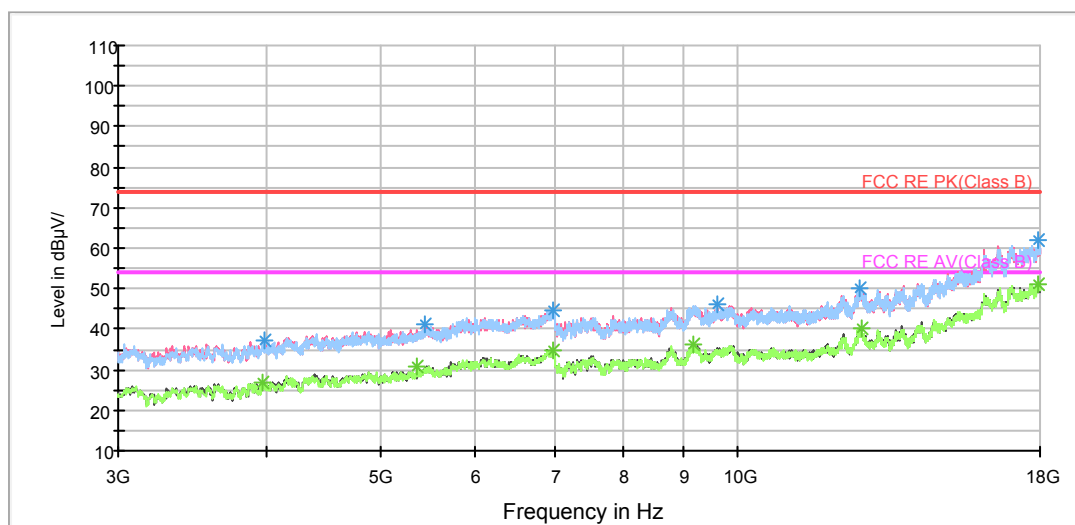
802.11b CH11

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1137.500000	39.1	200.0	H	0.0	47.6	-8.5	34.9	74
1400.250000	40.4	200.0	H	326.0	47.5	-7.1	33.6	74
1639.000000	42.4	200.0	H	290.0	47.1	-4.7	31.6	74
1975.250000	43.6	200.0	H	332.0	47.2	-3.6	30.4	74
2650.000000	47.4	100.0	H	0.0	47.0	0.4	26.6	74
2986.250000	49.9	100.0	H	13.0	47.7	2.2	24.1	74

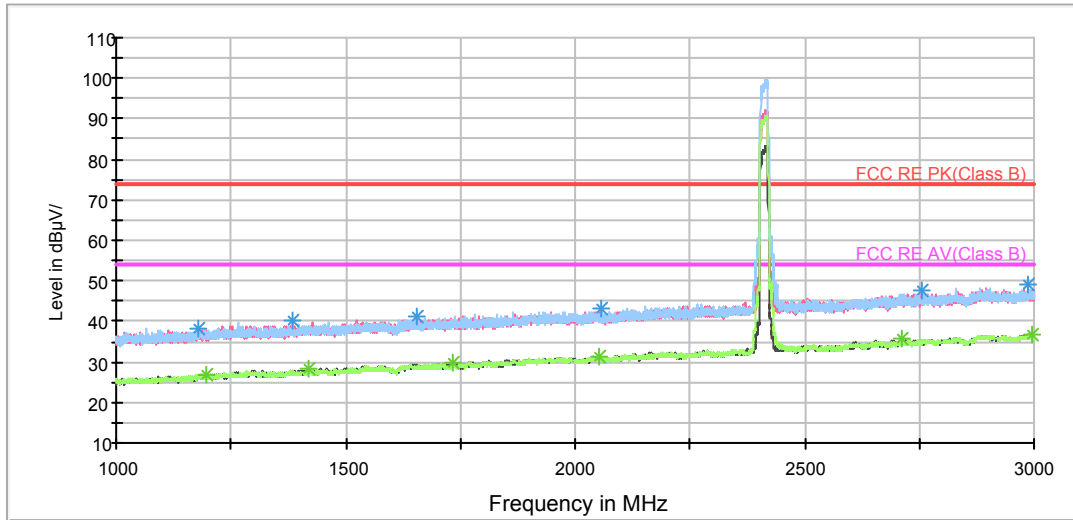
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1184.750000	27.8	200.0	H	256.0	35.9	-8.1	26.2	54
1436.500000	29.2	100.0	H	0.0	36.1	-6.9	24.8	54
1726.250000	33.4	200.0	H	314.0	38.5	-5.1	20.6	54
1994.000000	32.5	200.0	H	0.0	35.7	-3.2	21.5	54
2664.250000	36.4	100.0	H	113.0	36.1	0.3	17.6	54
2999.250000	39.1	100.0	H	31.0	36.8	2.3	14.9	54

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

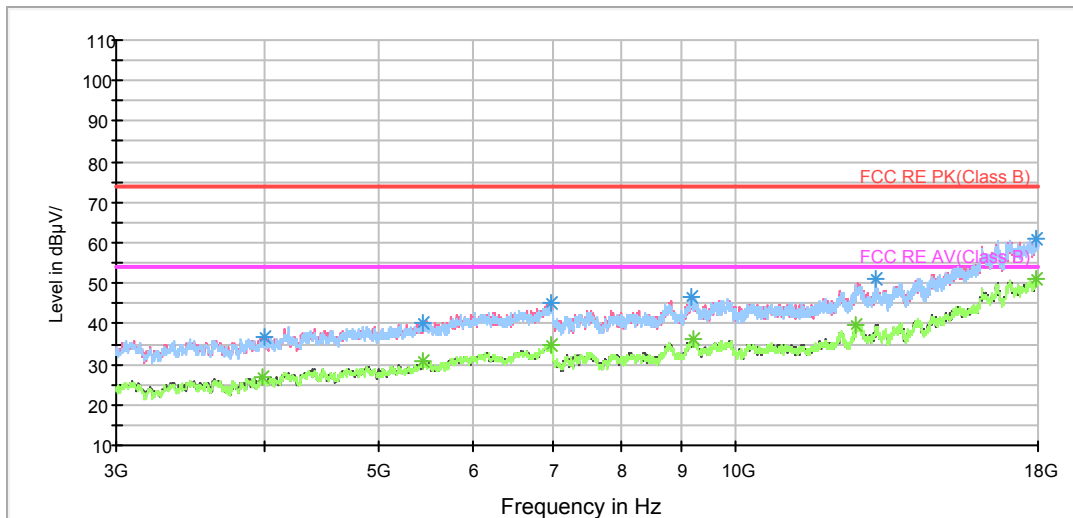
802.11g CH1

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1178.250000	38.3	100.0	V	281.0	46.3	-8.0	35.7	74
1385.500000	40.3	100.0	H	0.0	47.3	-7.0	33.7	74
1653.000000	41.0	200.0	H	309.0	46.1	-5.1	33.0	74
2058.750000	43.3	200.0	H	239.0	46.4	-3.1	30.7	74
2756.750000	47.6	200.0	V	0.0	46.7	0.9	26.4	74
2987.500000	49.0	200.0	H	0.0	46.8	2.2	25.0	74

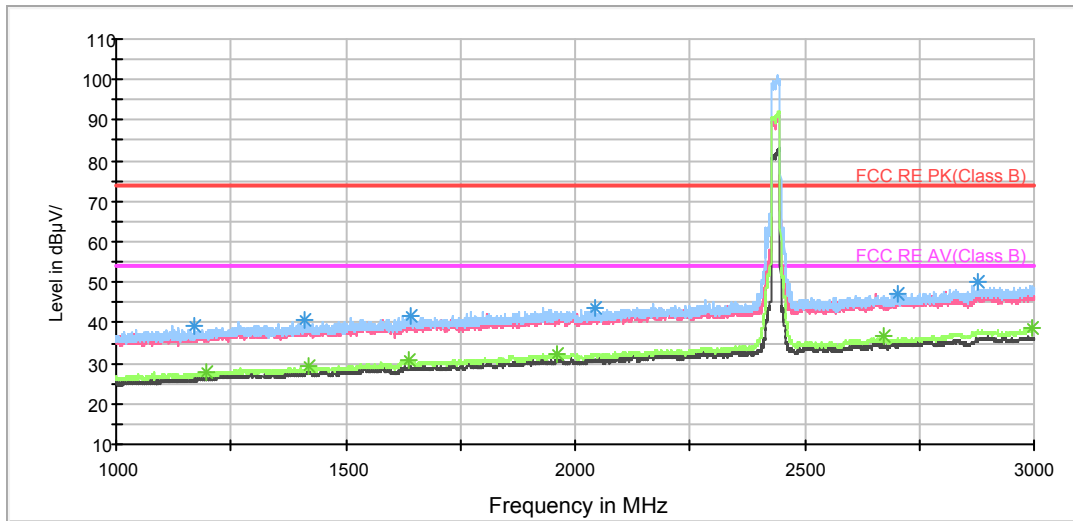
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.750000	26.8	100.0	V	270.0	35.0	-8.2	27.2	54
1419.000000	28.1	200.0	V	318.0	35.0	-6.9	25.9	54
1732.000000	29.6	100.0	H	277.0	34.4	-4.8	24.4	54
2052.750000	31.4	200.0	V	50.0	34.6	-3.2	22.6	54
2711.250000	35.6	100.0	V	333.0	35.4	0.2	18.4	54
2997.500000	36.9	100.0	H	103.0	34.6	2.3	17.1	54

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

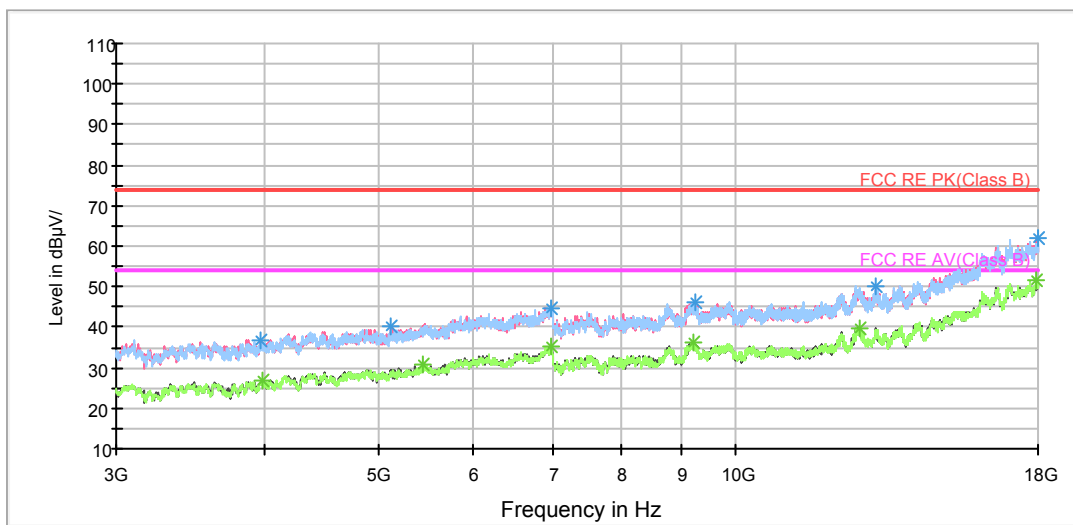
802.11g CH6

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1172.000000	39.2	200.0	H	0.0	47.3	-8.1	34.8	74
1409.000000	40.5	200.0	H	292.0	47.6	-7.1	33.5	74
1644.000000	41.8	200.0	H	323.0	46.6	-4.8	32.2	74
2044.000000	43.9	200.0	H	0.0	47.1	-3.2	30.1	74
2703.000000	47.3	100.0	V	331.0	47.3	0.0	26.7	74
2877.750000	50.0	200.0	H	0.0	47.7	2.3	24.0	74

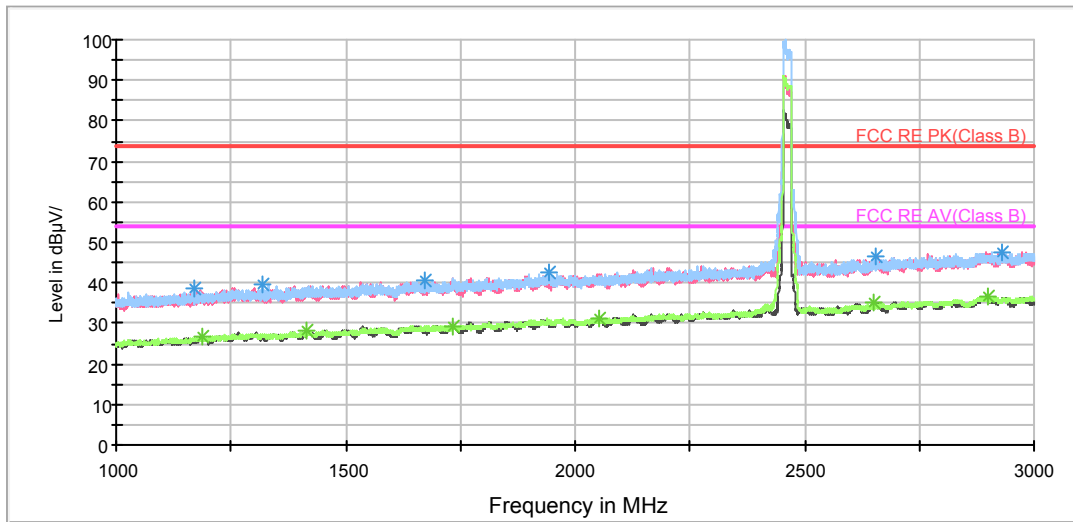
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.250000	27.7	200.0	H	260.0	35.9	-8.2	26.3	54
1419.000000	29.1	200.0	H	273.0	36.0	-6.9	24.9	54
1638.750000	30.7	200.0	H	0.0	35.4	-4.7	23.3	54
1961.000000	32.5	200.0	H	237.0	35.7	-3.2	21.5	54
2672.000000	36.5	200.0	H	0.0	36.2	0.3	17.5	54
2996.250000	38.6	200.0	H	354.0	36.3	2.3	15.4	54

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

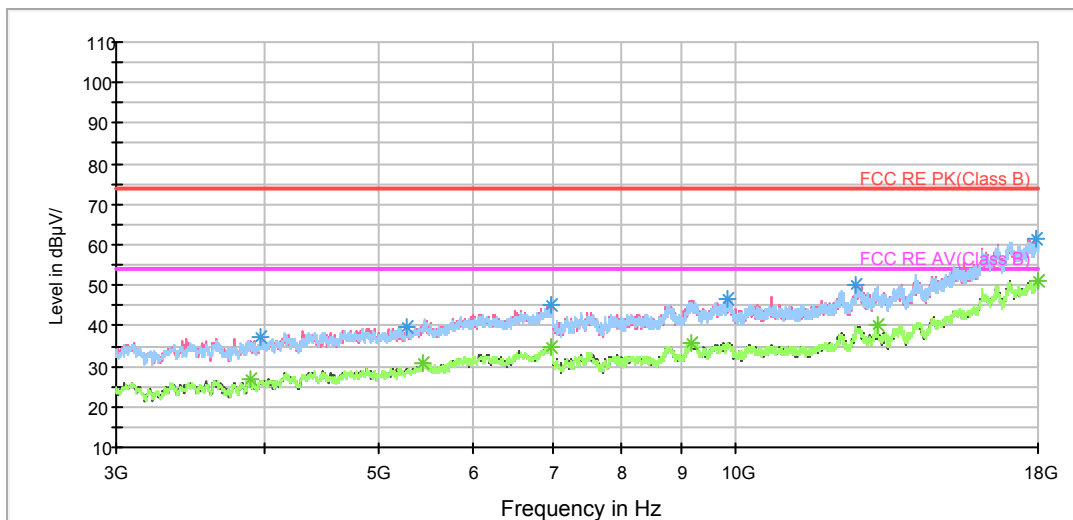
802.11g CH11

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1172.250000	38.4	200.0	H	187.0	46.5	-8.1	35.6	74
1318.250000	39.7	200.0	H	4.0	47.1	-7.4	34.3	74
1674.000000	40.8	200.0	H	71.0	45.9	-5.1	33.2	74
1942.500000	42.4	200.0	H	4.0	45.9	-3.5	31.6	74
2655.750000	46.4	200.0	H	0.0	46.0	0.4	27.6	74
2931.250000	47.6	200.0	V	311.0	45.8	1.8	26.4	74

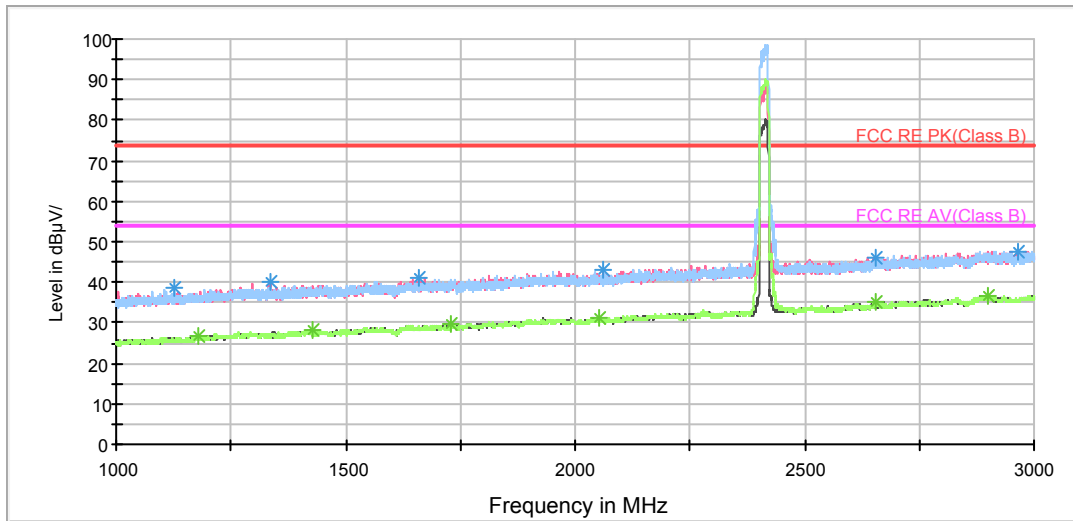
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1187.750000	26.6	200.0	V	322.0	34.7	-8.1	27.4	54
1416.500000	28.0	200.0	V	328.0	35.0	-7.0	26.0	54
1731.500000	29.4	200.0	V	270.0	34.2	-4.8	24.6	54
2053.250000	31.3	200.0	V	229.0	34.5	-3.2	22.7	54
2652.500000	35.0	200.0	V	305.0	34.6	0.4	19.0	54
2898.000000	36.5	200.0	V	229.0	34.4	2.1	17.5	54

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

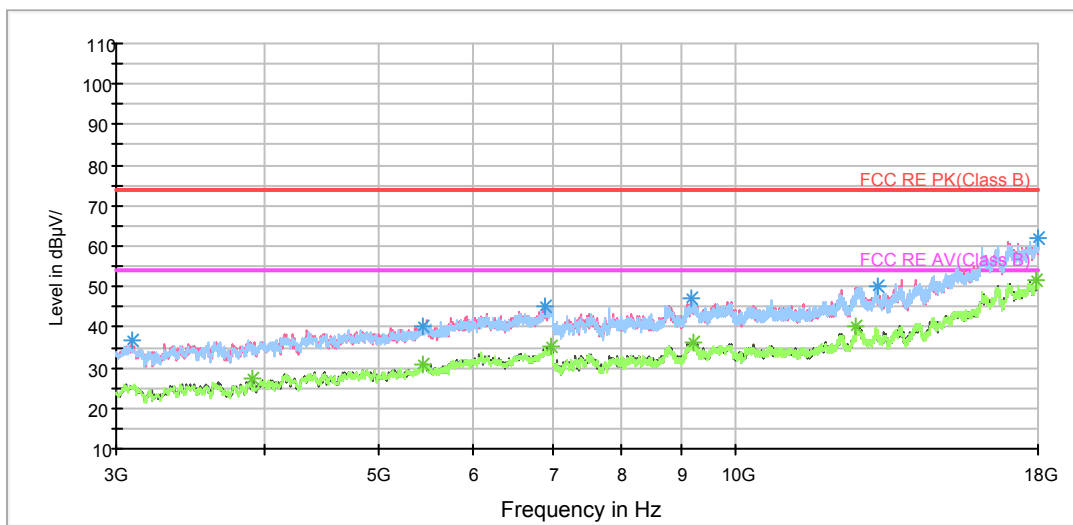
802.11n (HT20) CH1

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1127.500000	38.5	200.0	H	0.0	46.9	-8.4	35.5	74
1336.750000	40.1	200.0	V	237.0	47.5	-7.4	33.9	74
1659.250000	41.0	200.0	V	0.0	46.2	-5.2	33.0	74
2060.500000	42.9	200.0	V	320.0	46.0	-3.1	31.1	74
2655.500000	46.3	200.0	V	267.0	45.9	0.4	27.7	74
2964.250000	47.7	200.0	V	186.0	45.6	2.1	26.3	74

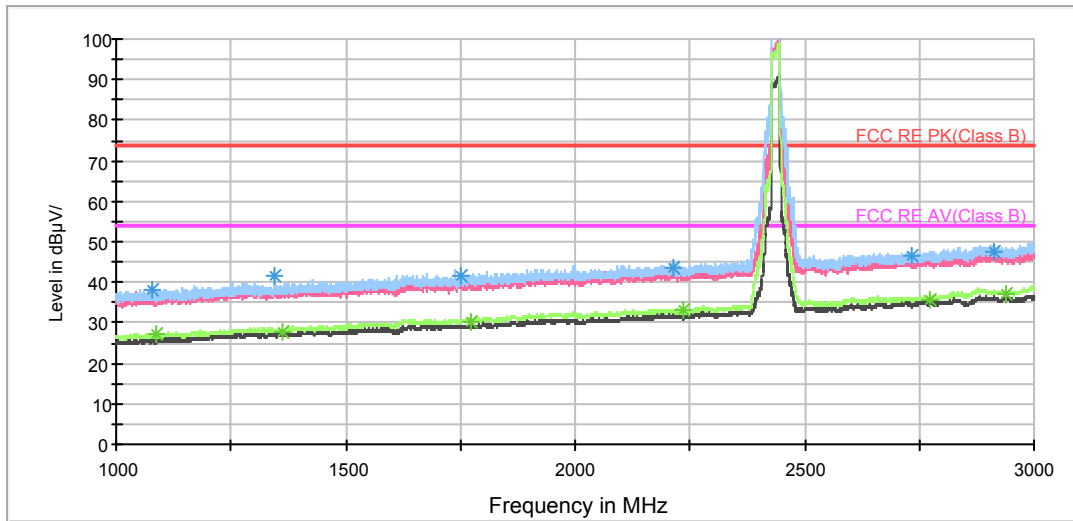
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1178.500000	26.8	200.0	V	157.0	34.8	-8.0	27.2	54
1426.250000	28.3	200.0	H	184.0	35.2	-6.9	25.7	54
1731.250000	29.5	200.0	H	85.0	34.4	-4.9	24.5	54
2052.750000	31.3	200.0	V	273.0	34.5	-3.2	22.7	54
2656.750000	35.0	200.0	V	226.0	34.6	0.4	19.0	54
2900.000000	36.7	200.0	H	78.0	34.6	2.1	17.3	54

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

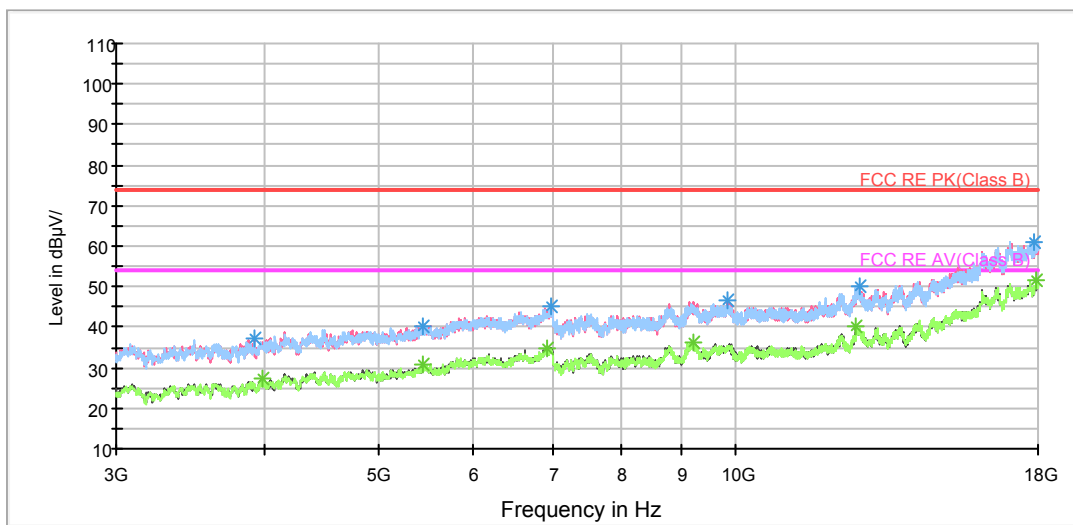
802.11n (HT20) CH6

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1079.000000	38.0	200.0	H	34.0	46.9	-8.9	36.0	74
1343.250000	41.7	200.0	H	93.0	49.2	-7.5	32.3	74
1750.000000	41.6	200.0	H	0.0	46.3	-4.7	32.4	74
2213.000000	43.5	200.0	H	0.0	45.7	-2.2	30.5	74
2735.750000	46.6	200.0	H	113.0	46.0	0.6	27.4	74
2910.750000	47.4	200.0	H	113.0	45.5	1.9	26.6	74

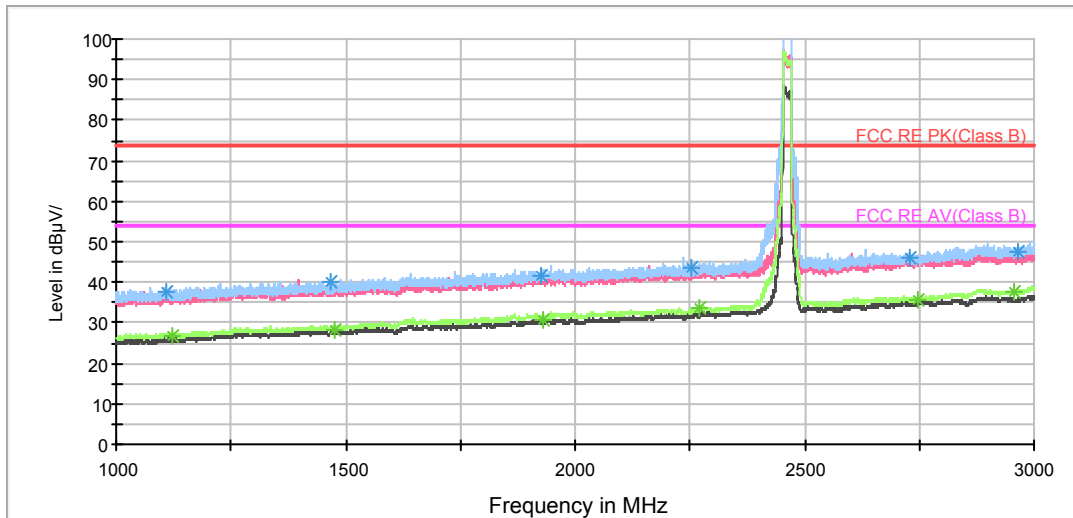
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1087.000000	27.0	200.0	H	131.0	35.9	-8.9	27.0	54
1364.000000	27.8	200.0	H	4.0	35.1	-7.3	26.2	54
1771.250000	30.4	200.0	H	0.0	34.9	-4.5	23.6	54
2235.750000	33.1	200.0	H	28.0	35.6	-2.5	20.9	54
2773.500000	35.6	200.0	V	219.0	34.8	0.8	18.4	54
2941.000000	37.3	200.0	H	22.0	35.4	1.9	16.7	54

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

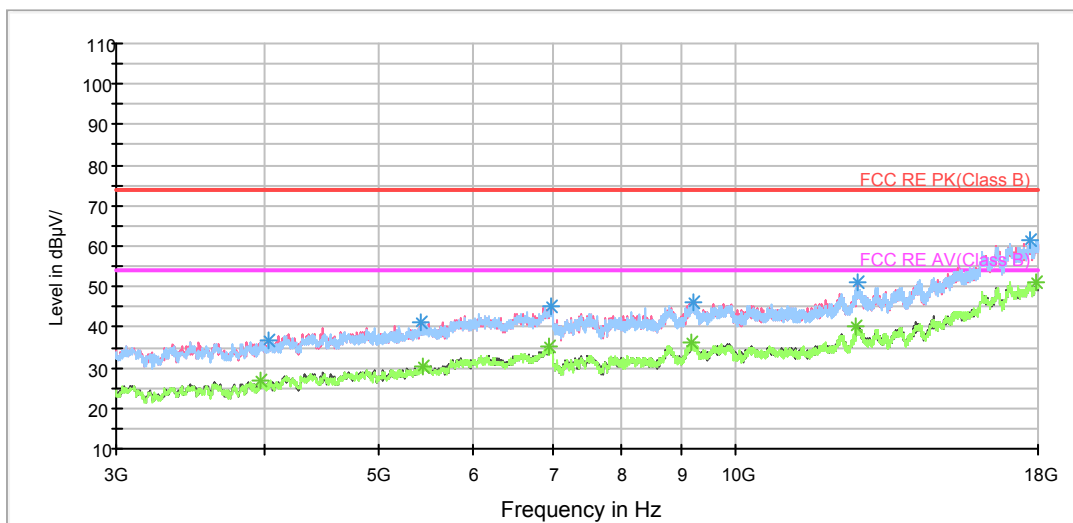
802.11n (HT20) CH11

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1110.250000	37.7	200.0	H	87.0	46.4	-8.7	36.3	74
1466.250000	39.9	200.0	V	326.0	46.7	-6.8	34.1	74
1927.750000	41.6	200.0	H	80.0	45.3	-3.7	32.4	74
2253.250000	43.4	200.0	H	0.0	45.6	-2.2	30.6	74
2730.000000	46.3	200.0	H	50.0	45.8	0.5	27.7	74

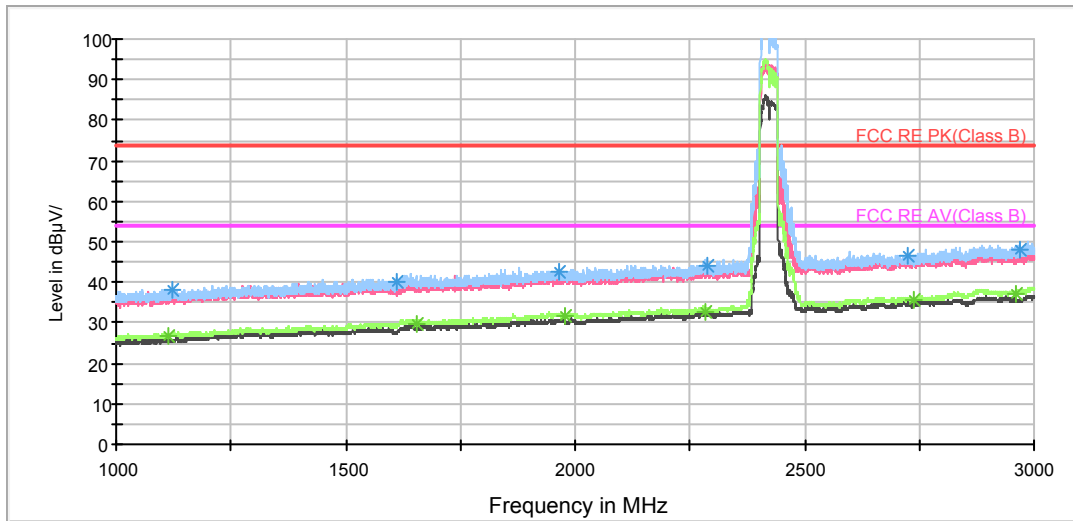
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1121.250000	26.6	200.0	H	28.0	35.1	-8.5	27.4	54
1476.750000	28.3	200.0	H	157.0	34.9	-6.6	25.7	54
1931.000000	30.4	200.0	V	0.0	34.1	-3.7	23.6	54
2269.500000	33.5	200.0	H	98.0	35.2	-1.7	20.5	54
2748.500000	35.7	200.0	H	21.0	34.8	0.9	18.3	54

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

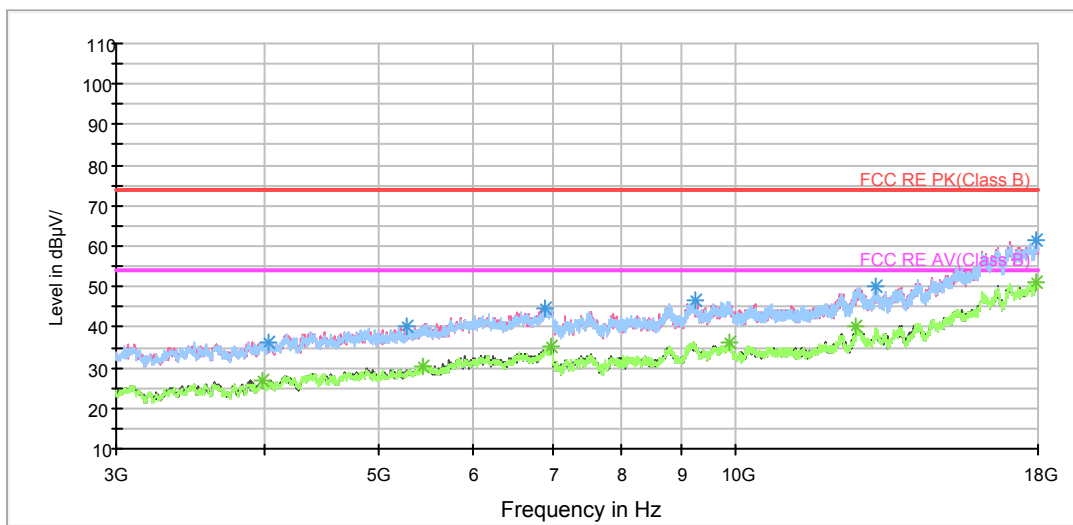
802.11n (HT40) CH3

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1124.250000	38.1	200.0	H	7.0	46.6	-8.5	35.9	74
1612.250000	40.0	200.0	H	55.0	45.6	-5.6	34.0	74
1966.000000	42.3	200.0	H	2.0	45.7	-3.4	31.7	74
2287.250000	44.0	200.0	H	2.0	45.6	-1.6	30.0	74
2726.250000	46.7	200.0	H	87.0	46.3	0.4	27.3	74
2971.500000	48.0	200.0	H	80.0	45.8	2.2	26.0	74

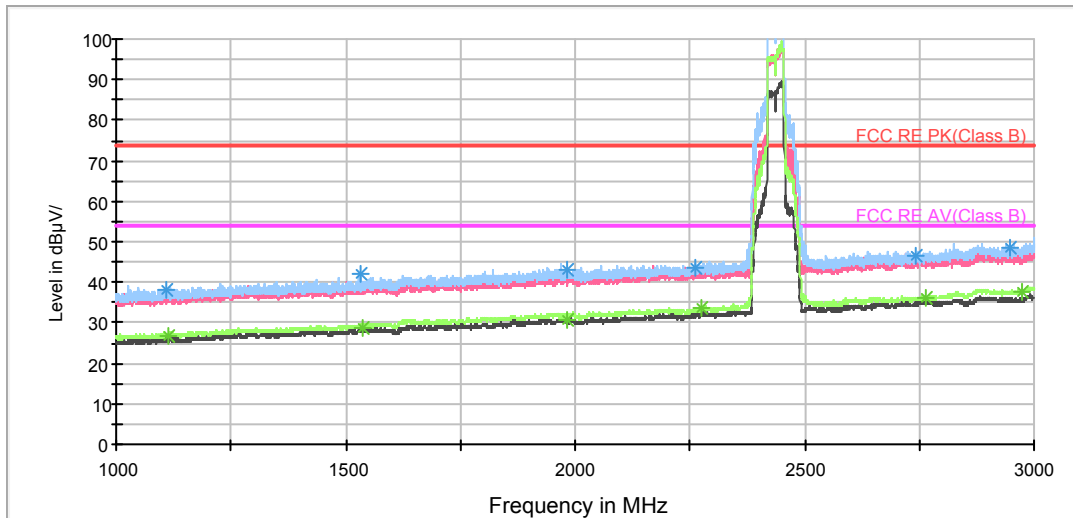
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1114.750000	26.5	200.0	H	67.0	35.1	-8.6	27.5	54
1654.750000	29.5	200.0	H	7.0	34.6	-5.1	24.5	54
1979.000000	31.5	200.0	H	25.0	35.2	-3.7	22.5	54
2283.000000	32.8	200.0	V	297.0	34.2	-1.4	21.2	54
2739.750000	35.4	200.0	H	55.0	34.7	0.7	18.6	54
2962.000000	37.1	200.0	H	125.0	35.0	2.1	16.9	54

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

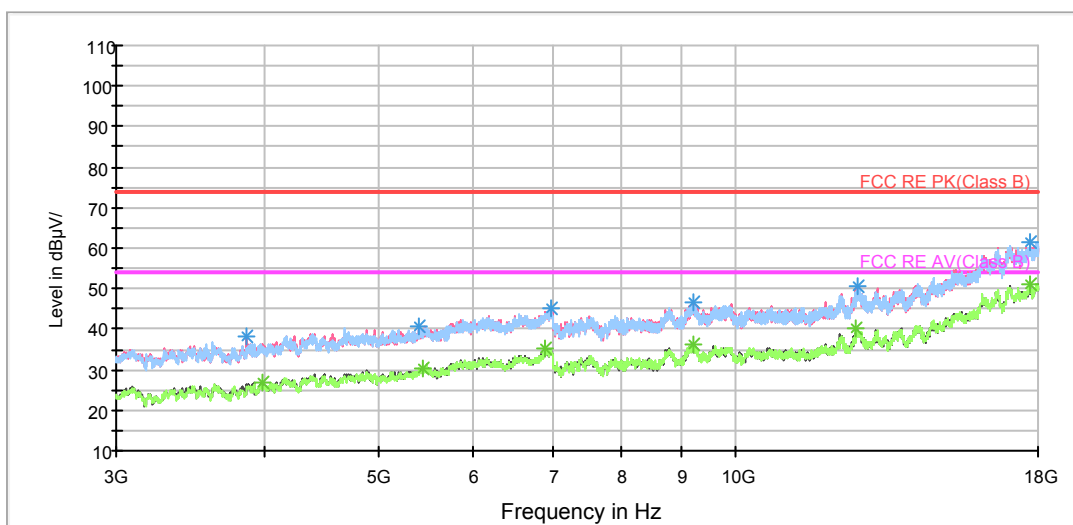
802.11n (HT40) CH6

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1110.750000	37.9	200.0	H	75.0	46.6	-8.7	36.1	74
1532.500000	41.9	200.0	H	12.0	48.3	-6.4	32.1	74
1984.000000	43.1	200.0	H	87.0	46.9	-3.8	30.9	74
2262.750000	43.7	200.0	H	0.0	45.7	-2.0	30.3	74
2742.250000	46.6	200.0	H	153.0	45.8	0.8	27.4	74
2946.500000	48.5	200.0	H	0.0	46.5	2.0	25.5	74

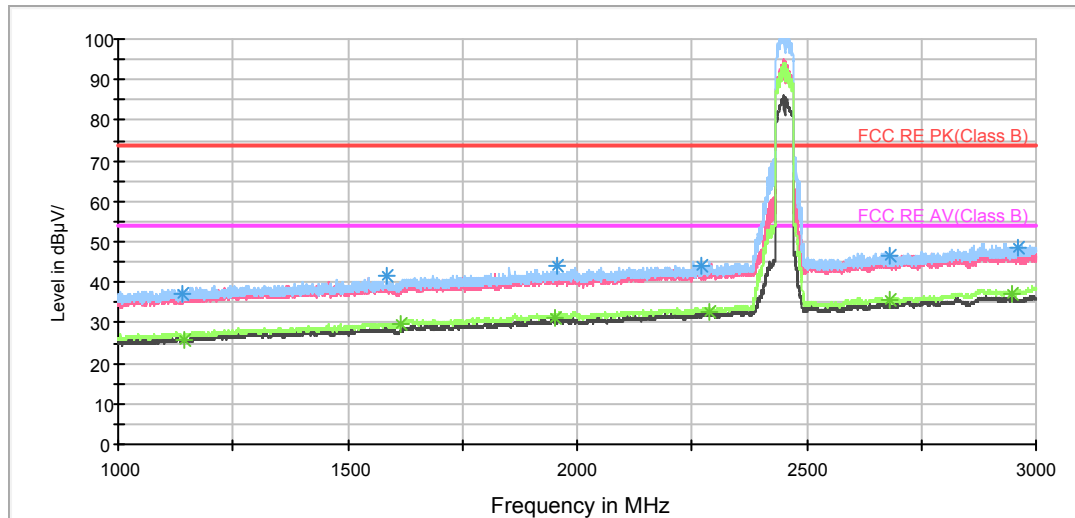
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1113.000000	26.7	200.0	H	58.0	35.3	-8.6	27.3	54
1539.000000	28.5	200.0	V	0.0	34.8	-6.3	25.5	54
1984.250000	30.9	200.0	V	300.0	34.7	-3.8	23.1	54
2276.250000	33.7	200.0	H	0.0	35.1	-1.4	20.3	54
2762.250000	36.0	200.0	H	135.0	35.1	0.9	18.0	54
2975.500000	37.5	200.0	H	175.0	35.3	2.2	16.5	54

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

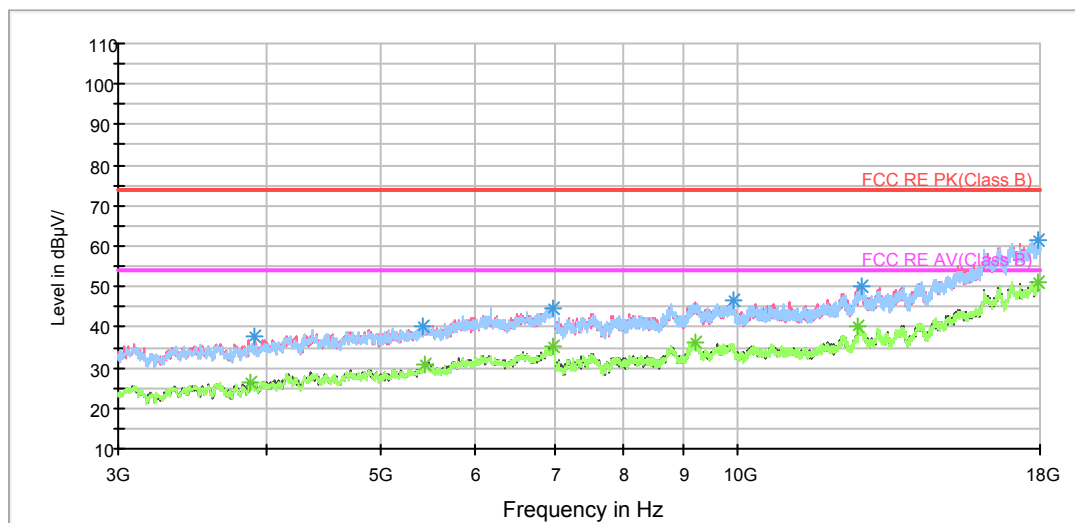
802.11n (HT40) CH9

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1138.750000	37.2	200.0	H	27.0	45.7	-8.5	36.8	74
1585.750000	41.5	200.0	H	9.0	47.8	-6.3	32.5	74
1958.250000	43.9	200.0	H	92.0	47.2	-3.3	30.1	74
2270.000000	44.3	200.0	H	0.0	46.0	-1.7	29.7	74
2680.750000	46.7	200.0	H	21.0	46.5	0.2	27.3	74
2961.750000	48.4	200.0	H	3.0	46.3	2.1	25.6	74

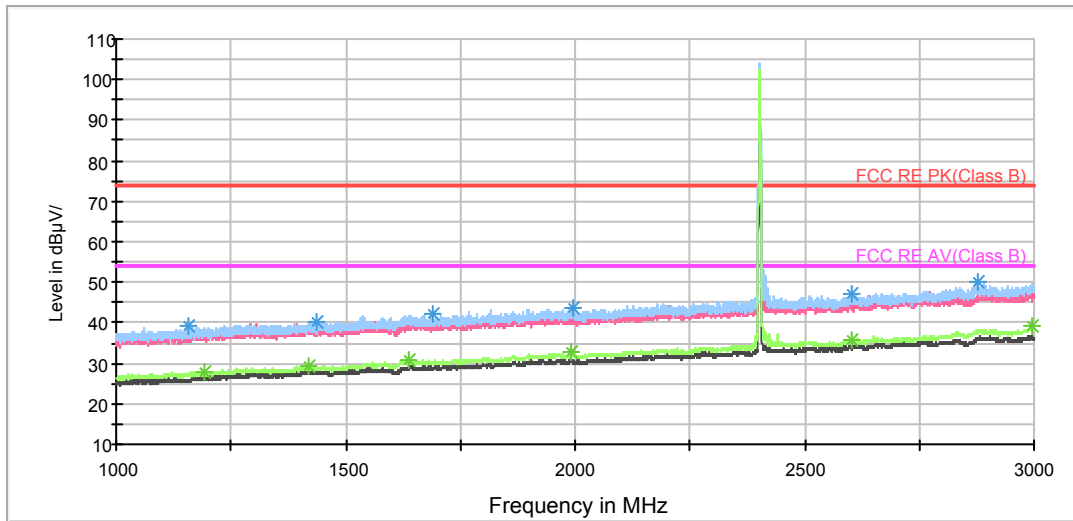
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1144.000000	25.9	200.0	V	126.0	34.4	-8.5	28.1	54
1614.750000	29.6	200.0	H	0.0	35.0	-5.4	24.4	54
1951.000000	31.3	200.0	H	0.0	34.9	-3.6	22.7	54
2288.000000	32.7	200.0	H	3.0	34.4	-1.7	21.3	54
2682.500000	35.8	200.0	H	0.0	35.6	0.2	18.2	54
2949.500000	37.3	200.0	H	0.0	35.3	2.0	16.7	54

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

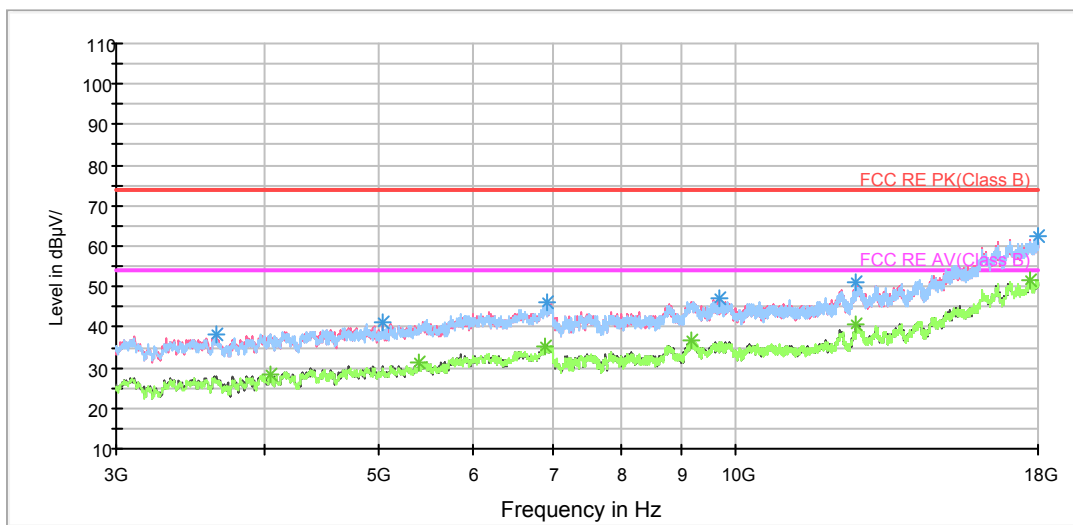
BLE-Channel 0

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1156.750000	39.1	100.0	H	40.0	47.5	-8.4	34.9	74
1437.500000	40.4	100.0	H	135.0	47.3	-6.9	33.6	74
1691.250000	42.3	200.0	H	295.0	47.3	-5.0	31.7	74
1996.250000	43.9	100.0	H	40.0	47.2	-3.3	30.1	74
2601.500000	47.0	100.0	H	52.0	46.6	0.4	27.0	74
2876.750000	49.9	100.0	H	105.0	47.6	2.3	24.1	74

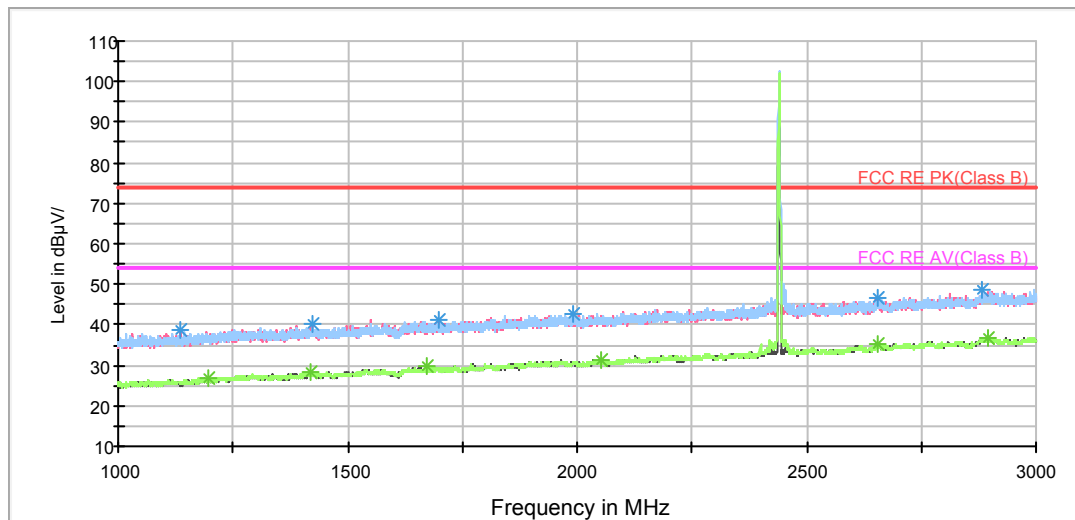
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1192.000000	27.9	100.0	H	0.0	36.1	-8.2	26.1	54
1420.250000	29.1	200.0	H	0.0	36.0	-6.9	24.9	54
1638.250000	31.0	200.0	H	349.0	35.7	-4.7	23.0	54
1991.500000	32.6	100.0	H	81.0	35.9	-3.3	21.4	54
2603.750000	35.9	200.0	H	331.0	35.6	0.3	18.1	54
2994.000000	39.1	100.0	H	0.0	36.8	2.3	14.9	54

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

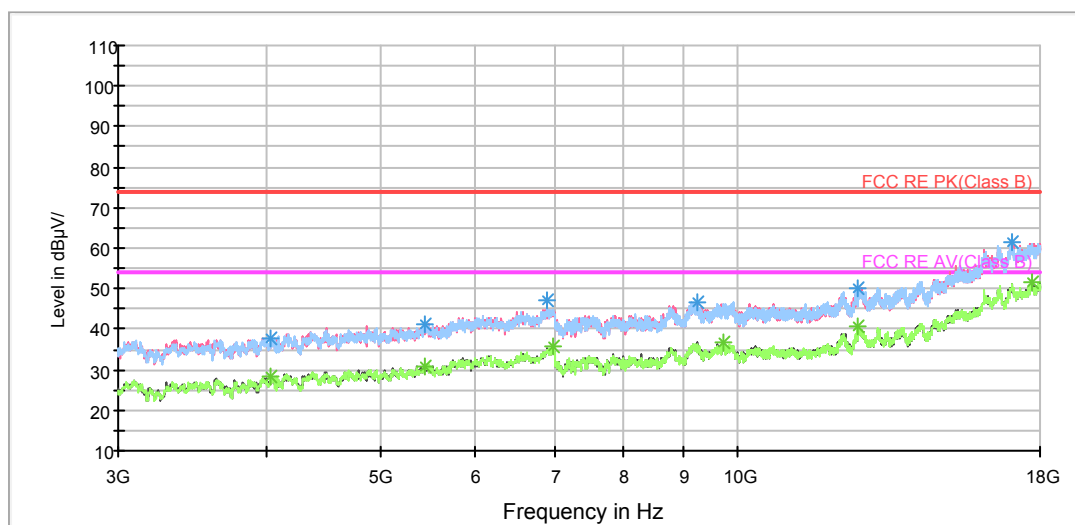
BLE-Channel 19

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1137.500000	38.8	200.0	V	73.0	47.3	-8.5	35.2	74
1423.750000	40.2	100.0	V	209.0	47.1	-6.9	33.8	74
1699.750000	41.0	200.0	V	15.0	46.0	-5.0	33.0	74
1991.250000	42.8	200.0	V	136.0	46.1	-3.3	31.2	74
2656.750000	46.6	100.0	V	251.0	46.2	0.4	27.4	74
2880.750000	48.6	200.0	V	73.0	46.3	2.3	25.4	74

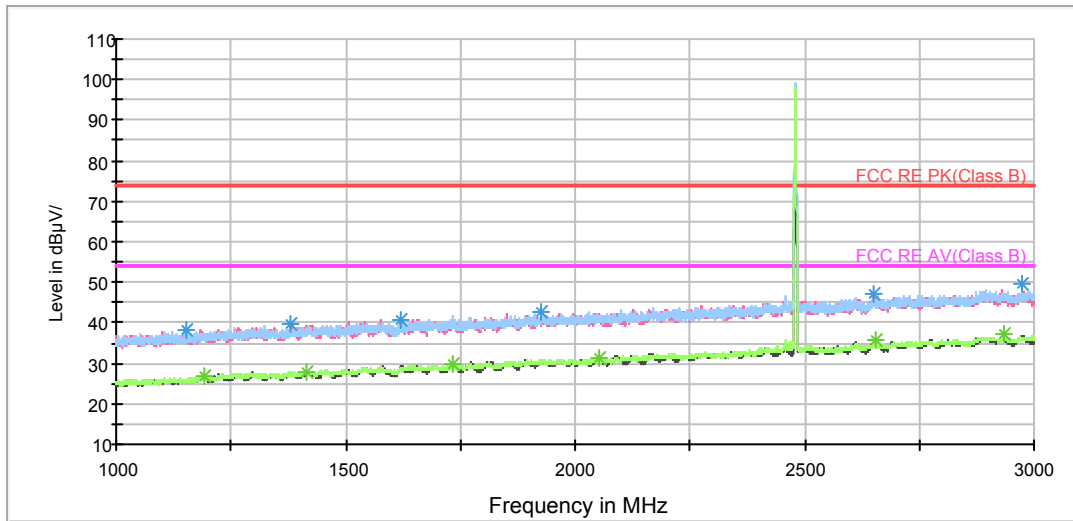
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1197.250000	26.9	200.0	V	4.0	35.1	-8.2	27.1	54
1420.750000	28.3	100.0	V	355.0	35.2	-6.9	25.7	54
1672.000000	29.6	100.0	H	66.0	34.7	-5.1	24.4	54
2050.250000	31.4	100.0	V	321.0	34.6	-3.2	22.6	54
2655.250000	35.3	100.0	H	0.0	34.9	0.4	18.7	54
2895.500000	36.8	100.0	V	232.0	34.7	2.1	17.2	54

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

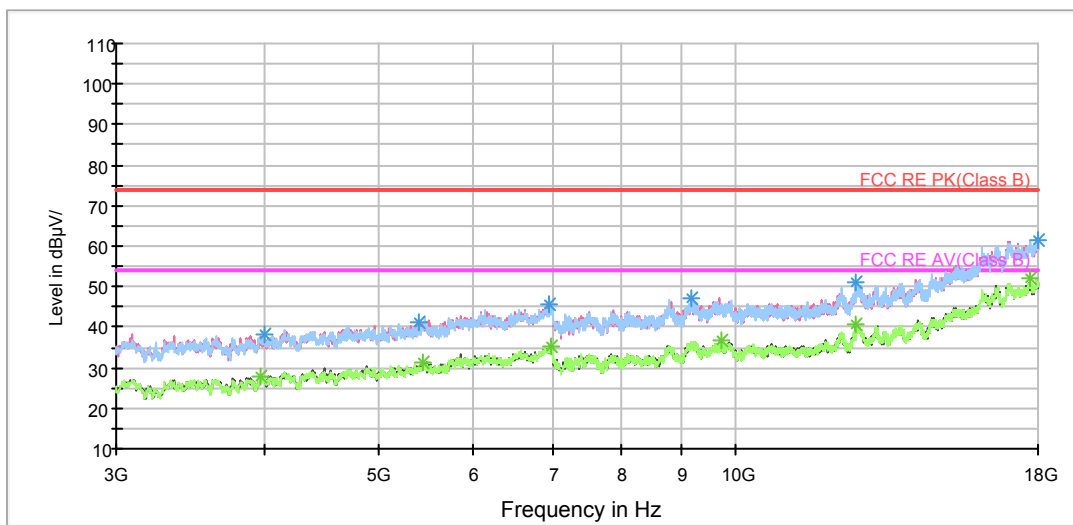
BLE-Channel 39

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1154.000000	38.1	200.0	H	216.0	46.5	-8.4	35.9	74
1381.500000	39.8	200.0	V	211.0	46.8	-7.0	34.2	74
1621.750000	40.8	200.0	V	234.0	45.6	-4.8	33.2	74
1924.750000	42.6	200.0	H	321.0	46.4	-3.8	31.4	74
2648.500000	47.0	200.0	V	0.0	46.6	0.4	27.0	74
2975.500000	49.5	200.0	H	0.0	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)
1191.250000	26.9	200.0	H	336.0	35.1	-8.2	27.1	54
1415.000000	28.1	100.0	V	249.0	35.1	-7.0	25.9	54
1731.750000	29.7	100.0	V	254.0	34.5	-4.8	24.3	54
2050.250000	31.4	100.0	V	350.0	34.6	-3.2	22.6	54
2656.750000	35.6	100.0	H	332.0	35.2	0.4	18.4	54
2932.500000	37.0	100.0	H	299.0	35.2	1.8	17.0	54

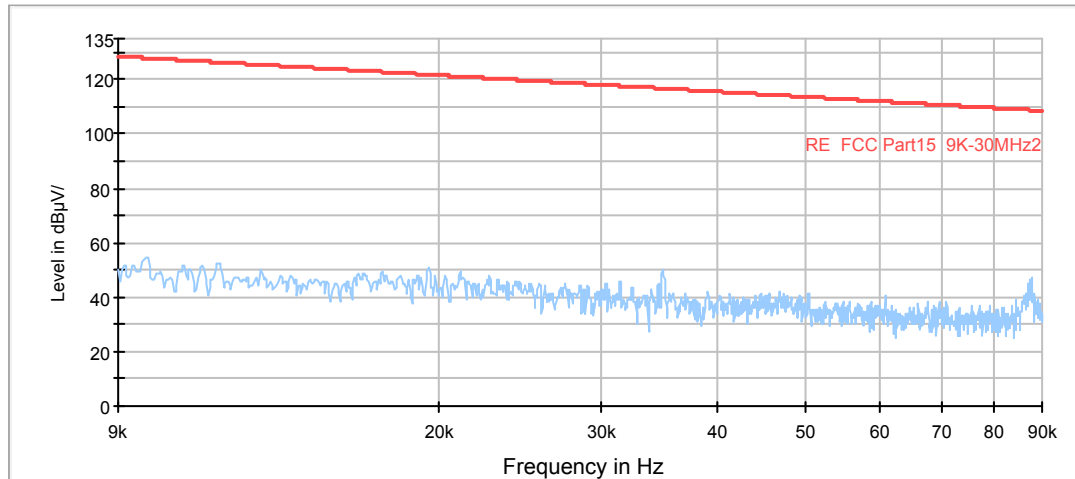
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

LPDDR3+eMMC (4GB+64GB) with Adapter 5 and USB cable 8

During the test, the Radiates Emission from 9kHz 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.

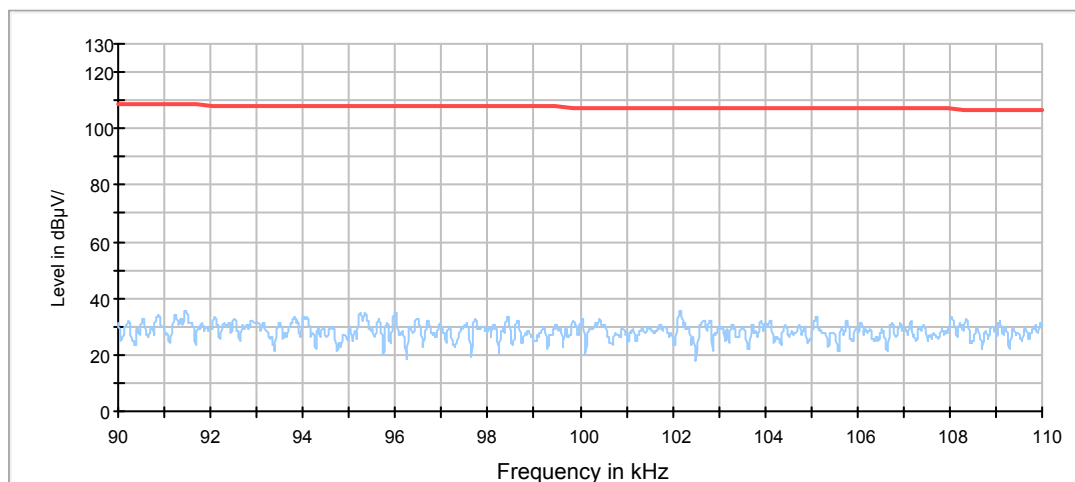
Continuous TX mode:

FCC RE 9K-90KHz AV



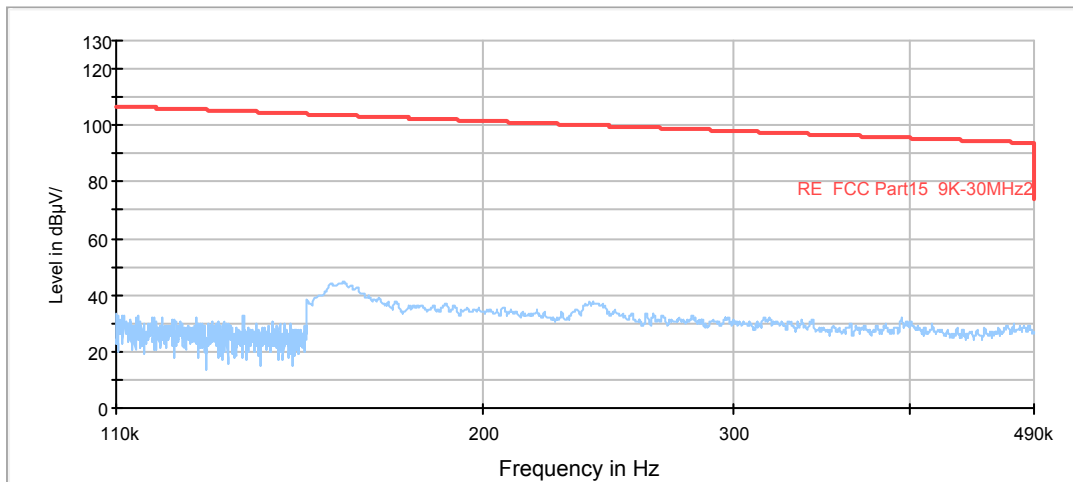
Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



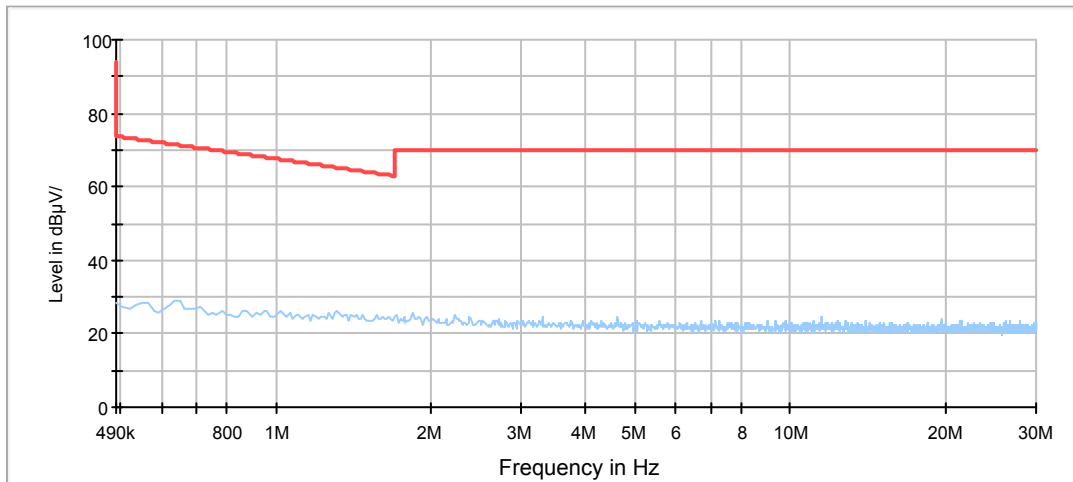
Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV



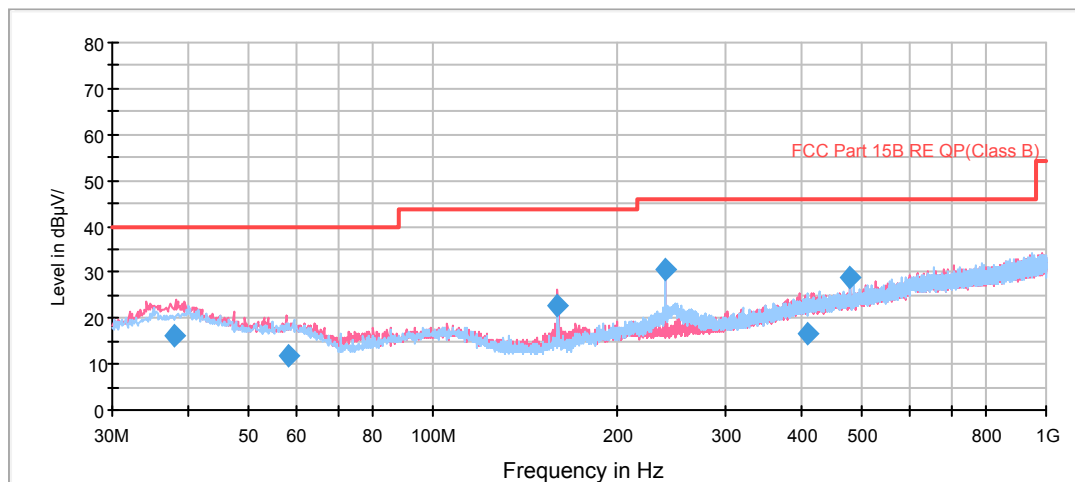
Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz

RE EN55032 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Reading value (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.923750	16.3	-0.6	100.0	V	357.0	16.9	23.7	40.0
58.205000	12.0	-2.0	100.0	V	352.0	14.0	28.0	40.0
159.980000	22.7	12.6	100.0	V	54.0	10.1	20.8	43.5
240.005000	30.5	17.3	200.0	H	281.0	13.2	15.5	46.0
407.982500	16.8	-2.8	100.0	H	0.0	19.6	29.2	46.0
479.998750	29.0	8.2	100.0	V	93.0	20.8	17.0	46.0

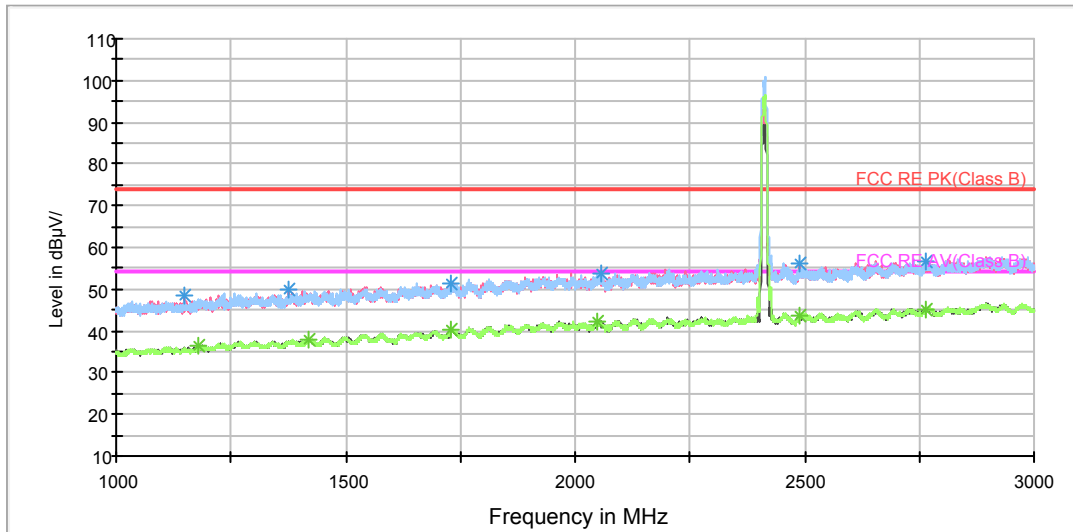
Remark: 1. Quasi-Peak = Reading value + Correction factor

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

3. Margin = Limit – Quasi-Peak

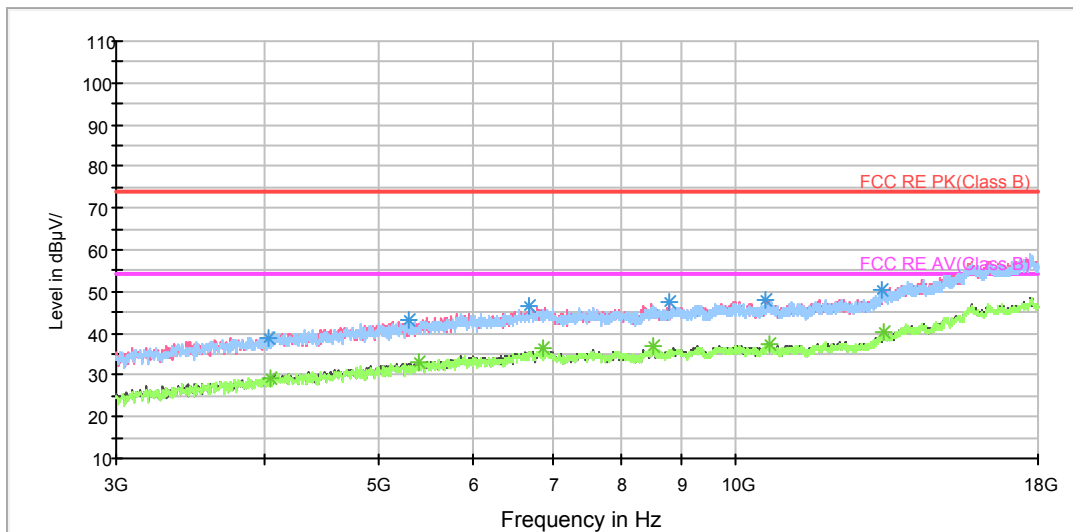
802.11b CH1

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1149.500000	48.3	200.0	V	344.0	47.6	0.7	25.7	74
1377.000000	49.8	200.0	V	244.0	47.5	2.3	24.2	74
1728.000000	51.5	100.0	V	25.0	46.6	4.9	22.5	74
2055.250000	53.9	100.0	H	279.0	46.7	7.2	20.1	74
2488.000000	56.1	200.0	V	2.0	46.5	9.6	17.9	74
2764.500000	56.6	100.0	H	258.0	46.5	10.1	17.4	74

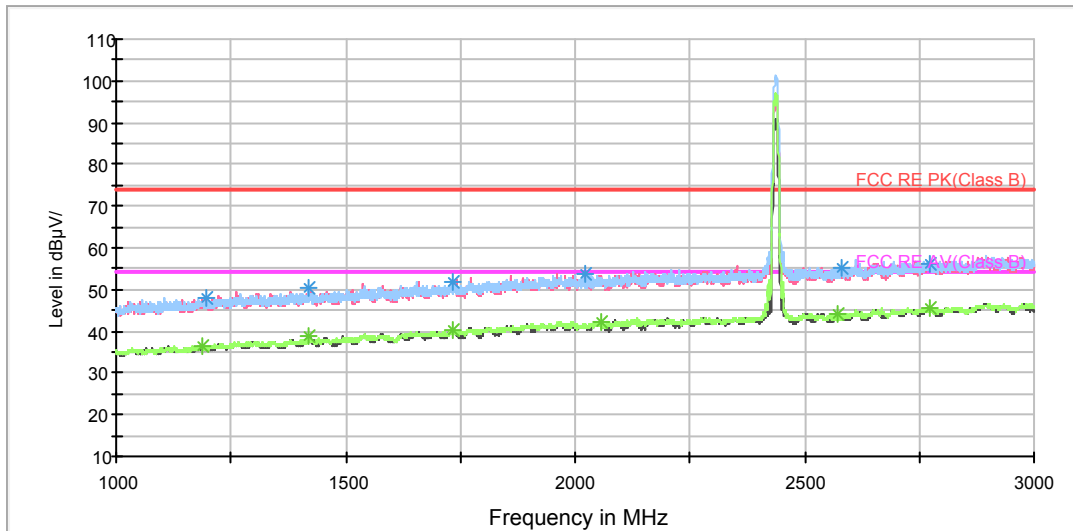
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1180.750000	36.3	100.0	V	291.0	35.1	1.2	17.7	54
1419.000000	38.1	100.0	V	169.0	35.6	2.5	15.9	54
1729.000000	40.1	200.0	V	23.0	35.2	4.9	13.9	54
2049.250000	42.4	200.0	V	359.0	35.2	7.2	11.6	54
2490.000000	43.5	200.0	V	353.0	33.8	9.7	10.5	54
2764.750000	44.9	200.0	H	201.0	34.8	10.1	9.1	54

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

802.11b CH6

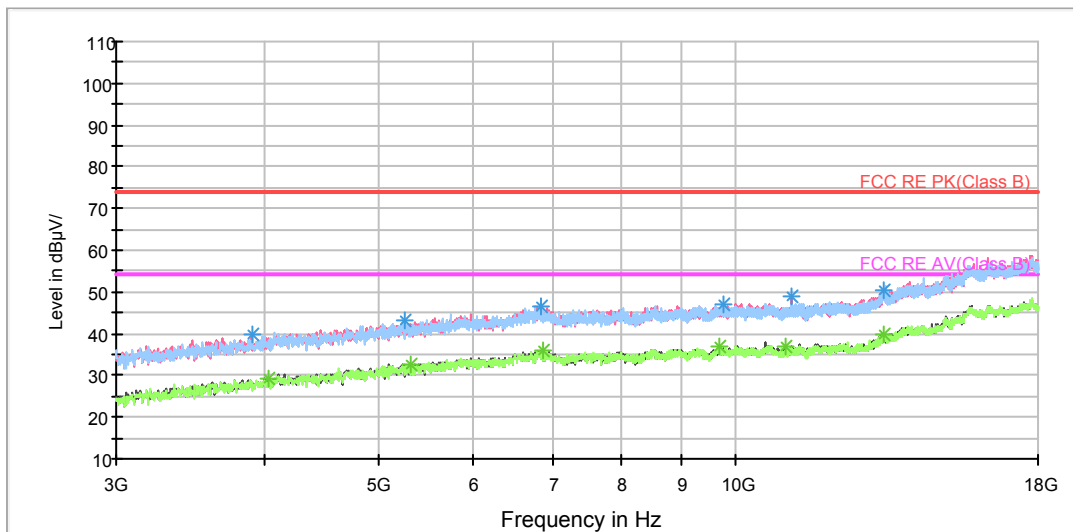
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.500000	47.9	200.0	V	81.0	46.9	1.0	26.1	74
1418.500000	50.6	100.0	H	261.0	48.1	2.5	23.4	74
1731.500000	51.7	100.0	V	312.0	46.6	5.1	22.3	74
2023.250000	53.7	200.0	V	18.0	46.8	6.9	20.3	74
2580.250000	55.0	100.0	V	301.0	46.1	8.9	19.0	74
2774.250000	56.0	200.0	H	58.0	46.0	10.0	18.0	74

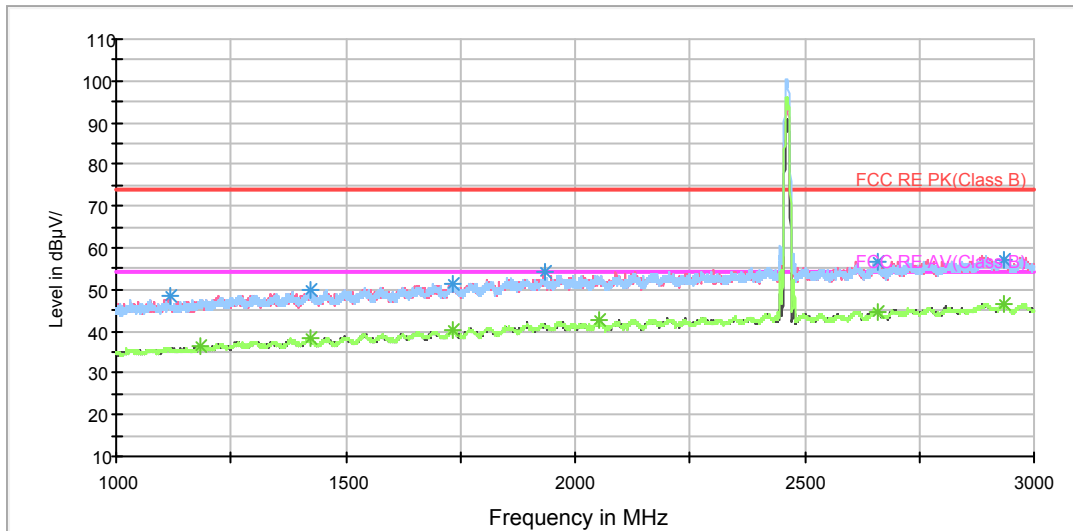
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1187.250000	36.5	100.0	V	345.0	35.4	1.1	17.5	54
1418.750000	38.7	100.0	V	130.0	36.2	2.5	15.3	54
1731.750000	40.2	200.0	V	165.0	35.1	5.1	13.8	54
2055.250000	42.2	200.0	V	50.0	35.0	7.2	11.8	54
2572.250000	44.0	200.0	V	71.0	35.3	8.7	10.0	54
2773.250000	45.3	100.0	H	146.0	35.3	10.0	8.7	54

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

802.11b CH11

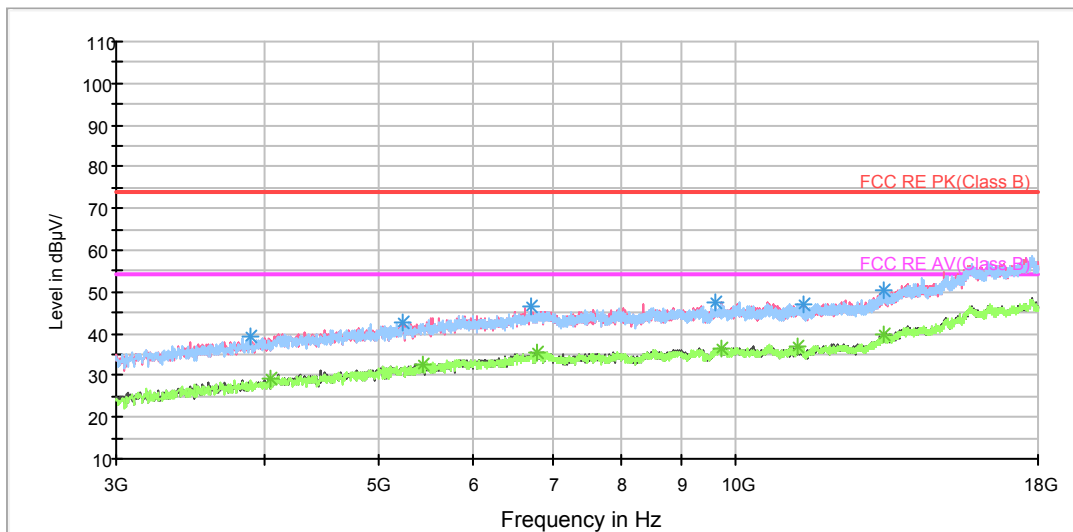
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1116.250000	48.3	100.0	V	181.0	47.7	0.6	25.7	74
1425.000000	49.7	200.0	V	210.0	47.2	2.5	24.3	74
1731.750000	51.3	100.0	V	238.0	46.2	5.1	22.7	74
1934.250000	54.3	100.0	H	30.0	47.7	6.6	19.7	74
2934.000000	57.3	100.0	H	35.0	46.3	11.0	16.7	74
2660.000000	56.8	200.0	V	148.0	47.2	9.6	17.2	74

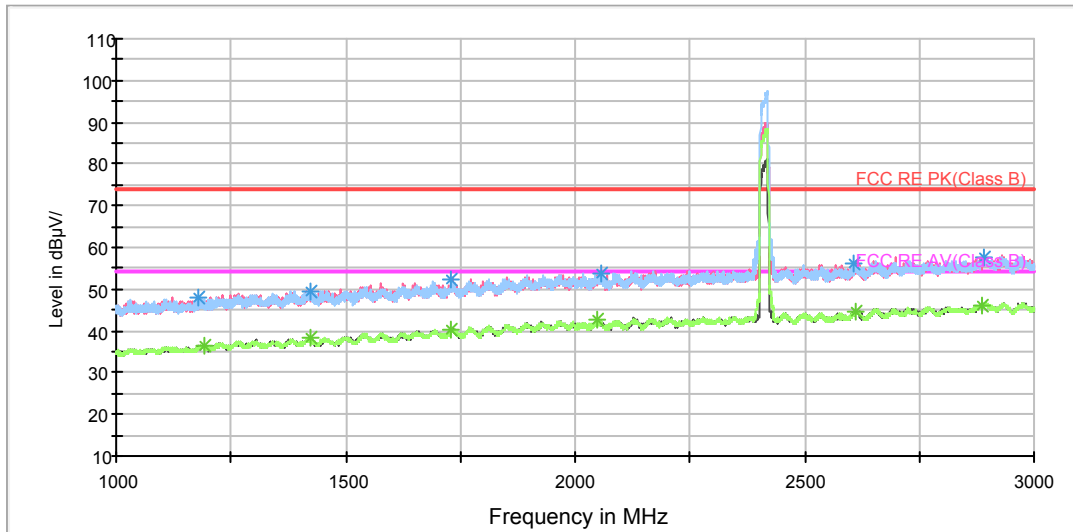
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1184.500000	36.6	100.0	V	277.0	35.5	1.1	17.4	54
1421.750000	38.4	200.0	H	351.0	35.8	2.6	15.6	54
1731.500000	40.3	100.0	V	359.0	35.2	5.1	13.7	54
2053.000000	42.5	100.0	V	244.0	35.3	7.2	11.5	54
2934.000000	46.8	200.0	H	247.0	35.8	11.0	7.2	54
2660.500000	44.5	100.0	V	328.0	34.9	9.6	9.5	54

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

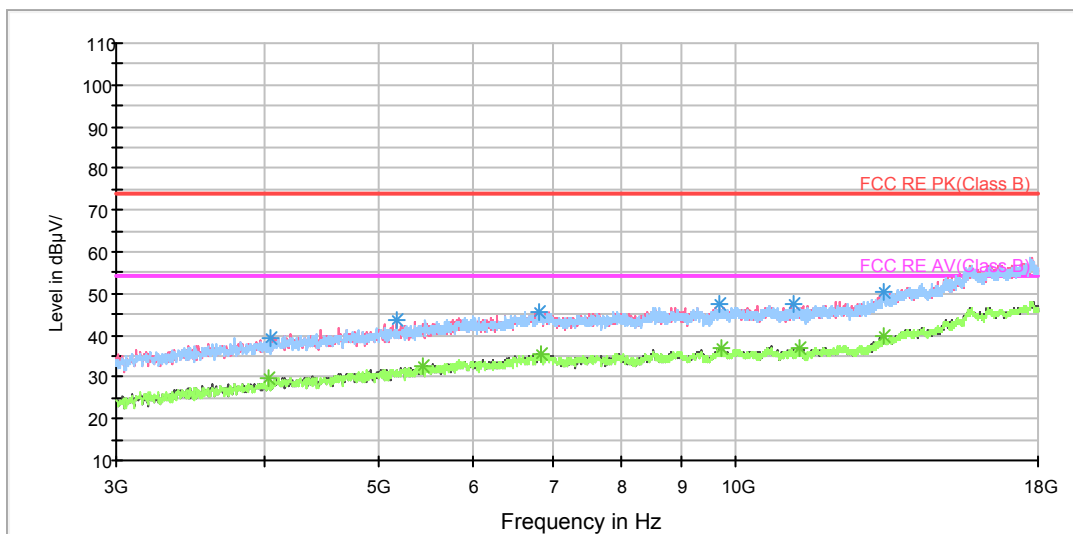
802.11g CH1

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1180.500000	47.8	200.0	V	118.0	46.6	1.2	26.2	74
1425.250000	49.6	200.0	H	247.0	47.1	2.5	24.4	74
1728.250000	52.1	200.0	H	287.0	47.2	4.9	21.9	74
2057.250000	53.7	200.0	H	179.0	46.5	7.2	20.3	74
2607.500000	56.1	200.0	H	0.0	46.6	9.5	17.9	74
2889.750000	57.5	100.0	H	44.0	46.2	11.3	16.5	74

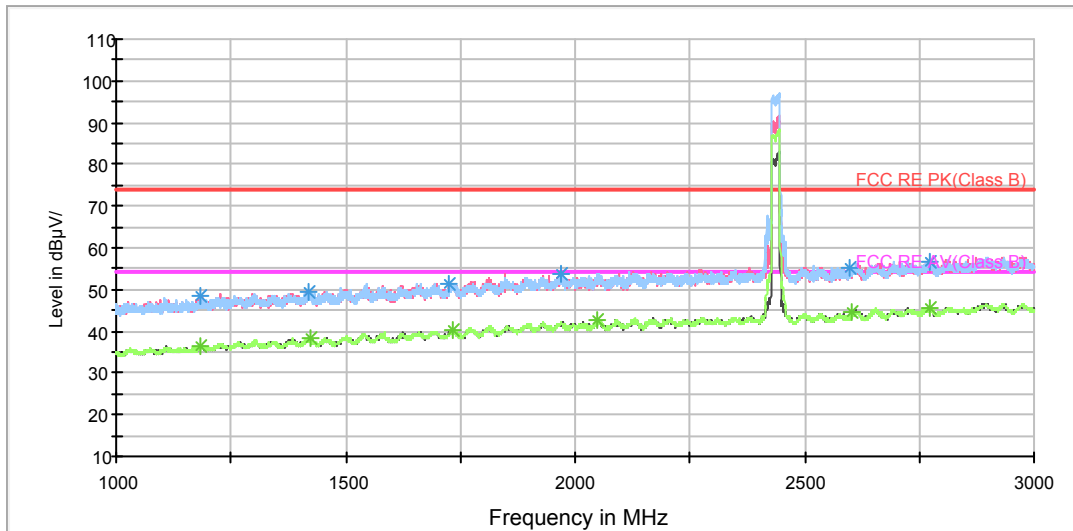
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1192.250000	36.7	200.0	H	323.0	35.7	1.0	17.3	54
1421.750000	38.5	100.0	V	267.0	35.9	2.6	15.5	54
1731.000000	40.4	100.0	H	150.0	35.3	5.1	13.6	54
2048.500000	42.6	200.0	V	144.0	35.4	7.2	11.4	54
2610.250000	44.6	200.0	V	269.0	35.1	9.5	9.4	54
2887.750000	46.1	200.0	V	254.0	34.7	11.4	7.9	54

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

802.11g CH6

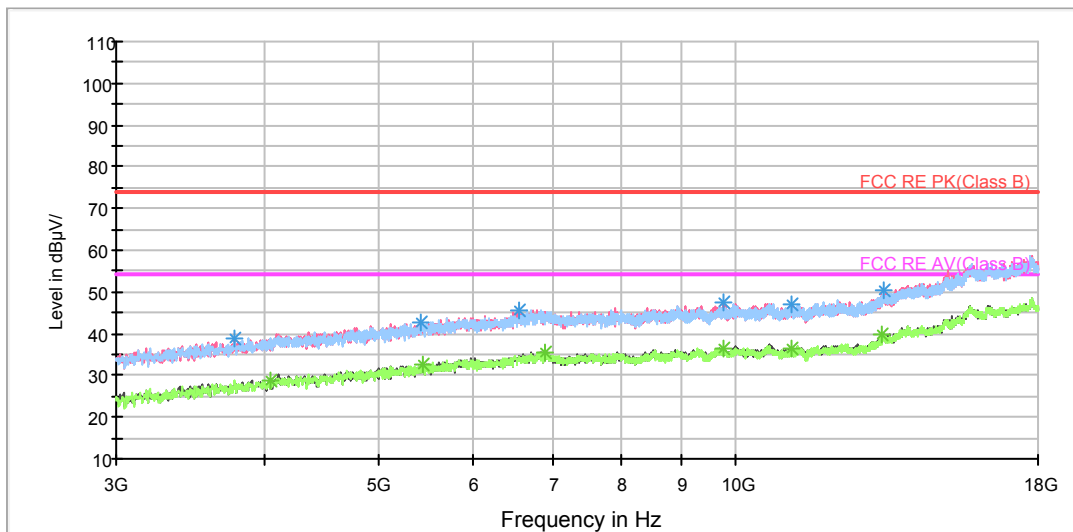
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.500000	48.3	200.0	V	8.0	47.2	1.1	25.7	74
1421.250000	49.4	100.0	V	134.0	46.8	2.6	24.6	74
1726.000000	51.6	100.0	V	346.0	46.7	4.9	22.4	74
1970.000000	53.8	100.0	H	12.0	47.0	6.8	20.2	74
2597.250000	55.0	200.0	V	0.0	45.4	9.6	19.0	74
2771.500000	56.6	200.0	V	301.0	46.6	10.0	17.4	74

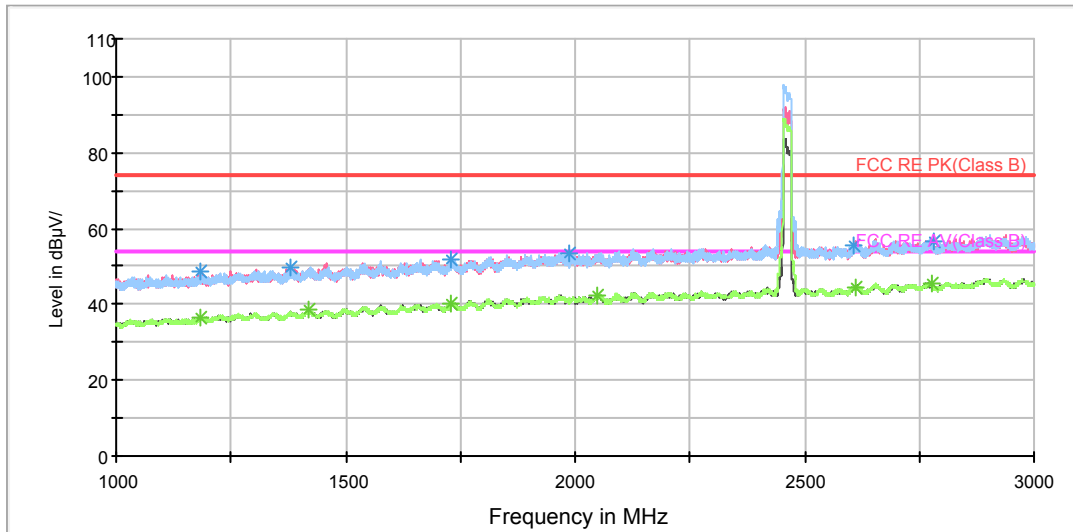
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.500000	36.6	200.0	H	62.0	35.5	1.1	17.4	54
1423.250000	38.3	100.0	V	187.0	35.8	2.5	15.7	54
1731.750000	40.2	100.0	V	0.0	35.1	5.1	13.8	54
2049.500000	42.5	200.0	H	168.0	35.3	7.2	11.5	54
2604.500000	44.5	100.0	H	7.0	34.9	9.6	9.5	54
2771.000000	45.4	200.0	H	337.0	35.4	10.0	8.6	54

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

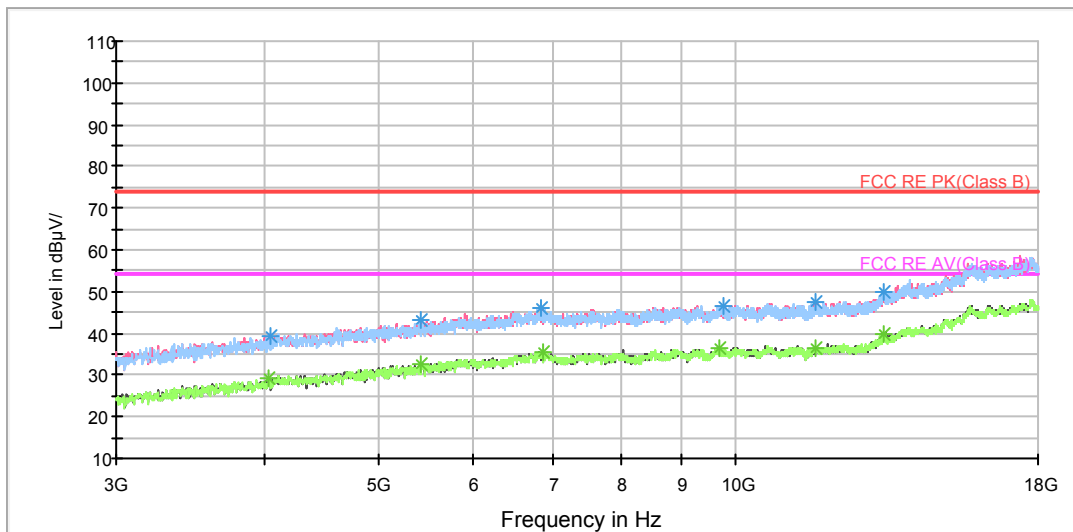
802.11g CH11

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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1185.500000	48.4	100.0	H	33.0	47.3	1.1	25.6	74
1381.000000	49.7	200.0	H	297.0	47.3	2.4	24.3	74
1730.750000	51.8	100.0	V	48.0	46.8	5.0	22.2	74
1989.000000	53.6	200.0	H	208.0	46.6	7.0	20.4	74
2605.500000	55.3	100.0	V	359.0	45.7	9.6	18.7	74
2779.500000	56.7	100.0	V	37.0	46.6	10.1	17.3	74

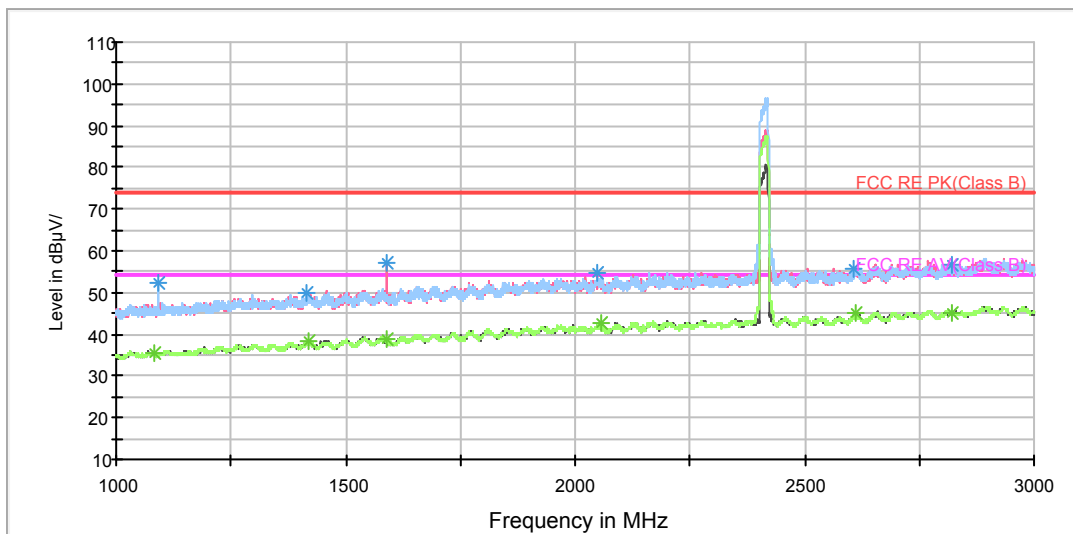
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1182.000000	36.5	100.0	V	163.0	35.3	1.2	17.5	54
1418.750000	38.6	100.0	V	0.0	36.1	2.5	15.4	54
1730.000000	40.3	100.0	H	264.0	35.4	4.9	13.7	54
2049.000000	42.5	200.0	V	44.0	35.3	7.2	11.5	54
2610.750000	44.5	200.0	V	197.0	35.0	9.5	9.5	54
2779.250000	45.5	200.0	H	307.0	35.4	10.1	8.5	54

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

802.11n (HT20) CH1

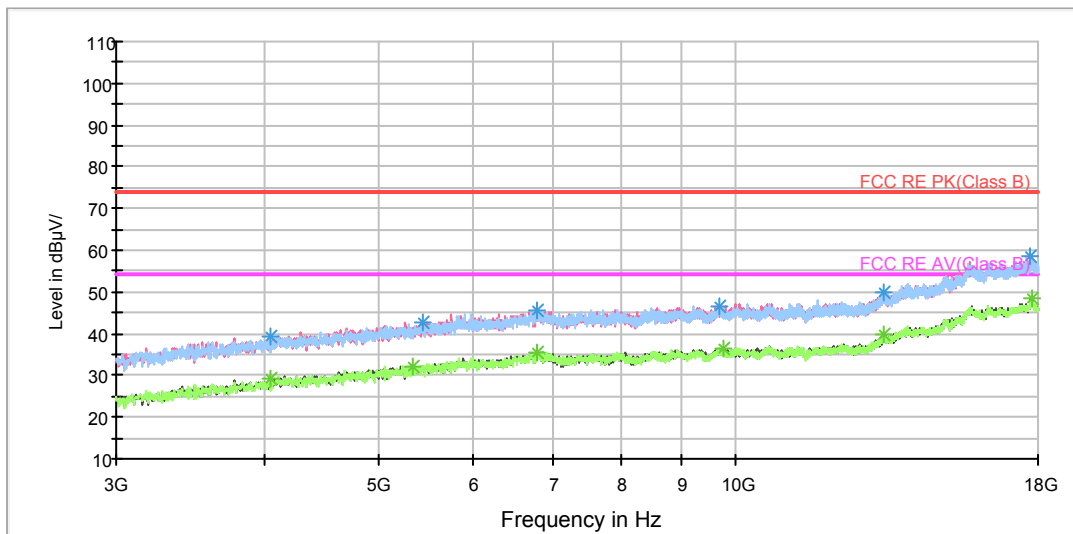
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1091.250000	52.3	100.0	H	19.0	52.1	0.2	21.7	74
1415.250000	49.7	100.0	V	290.0	47.3	2.4	24.3	74
1588.250000	57.2	200.0	V	341.0	53.9	3.3	16.8	74
2048.750000	54.8	100.0	V	89.0	47.6	7.2	19.2	74
2605.250000	55.6	200.0	V	172.0	46.0	9.6	18.4	74
2822.000000	56.8	100.0	V	274.0	46.0	10.8	17.2	74

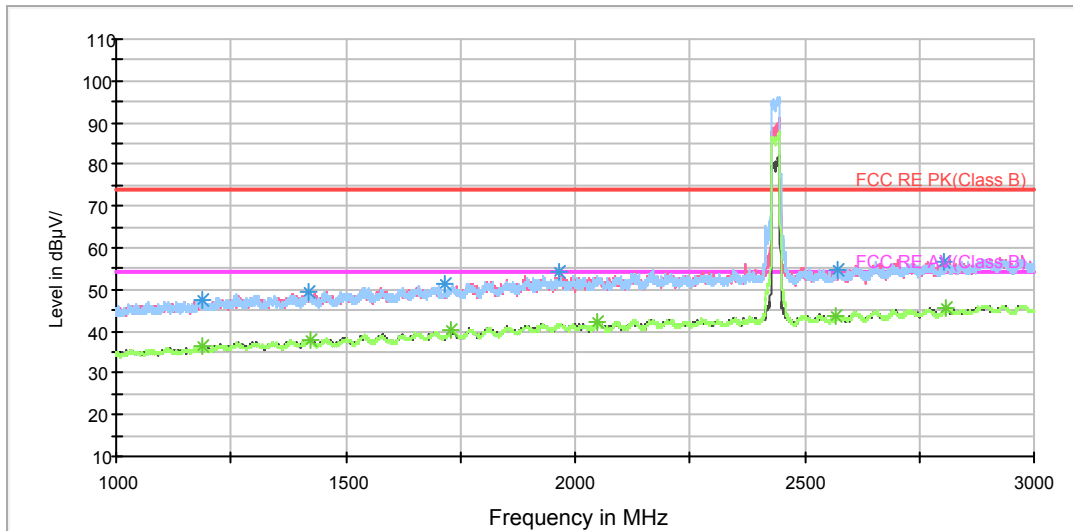
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1419.500000	38.4	100.0	V	0.0	35.9	2.5	15.6	54
2055.750000	42.5	100.0	V	233.0	35.3	7.2	11.5	54
1085.000000	35.6	200.0	V	73.0	35.4	0.2	18.4	54
1588.250000	38.8	200.0	V	341.0	35.5	3.3	15.2	54
2612.500000	45.0	100.0	V	79.0	35.6	9.4	9.0	54
2821.250000	45.1	200.0	V	341.0	34.3	10.8	8.9	54

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

802.11n (HT20) CH6

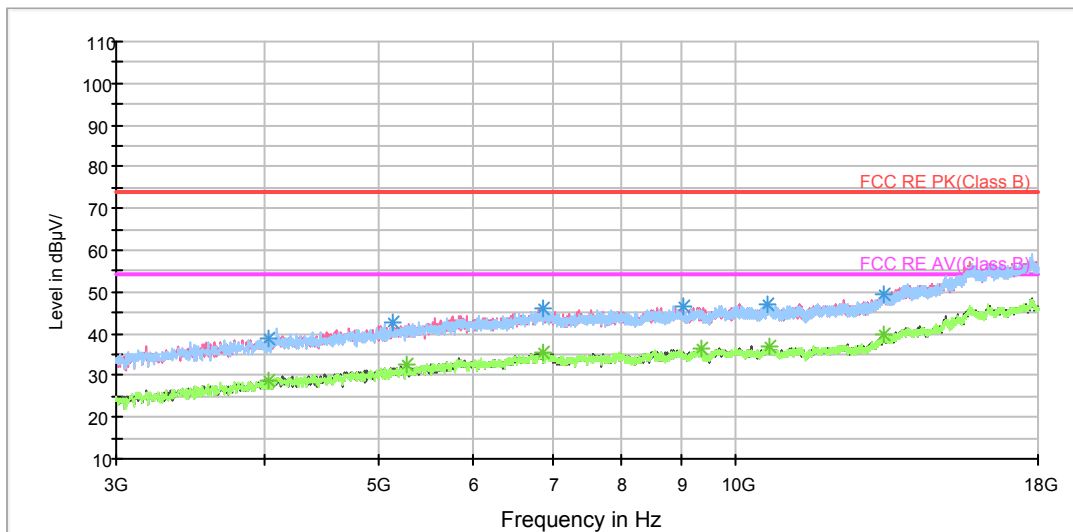
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1189.500000	47.7	200.0	H	0.0	46.7	1.0	26.3	74
1418.500000	49.2	200.0	H	47.0	46.7	2.5	24.8	74
1715.750000	51.4	200.0	H	188.0	46.4	5.0	22.6	74
1963.250000	54.1	100.0	H	144.0	47.0	7.1	19.9	74
2573.750000	54.6	100.0	V	245.0	45.9	8.7	19.4	74
2804.250000	56.4	100.0	V	219.0	46.0	10.4	17.6	74

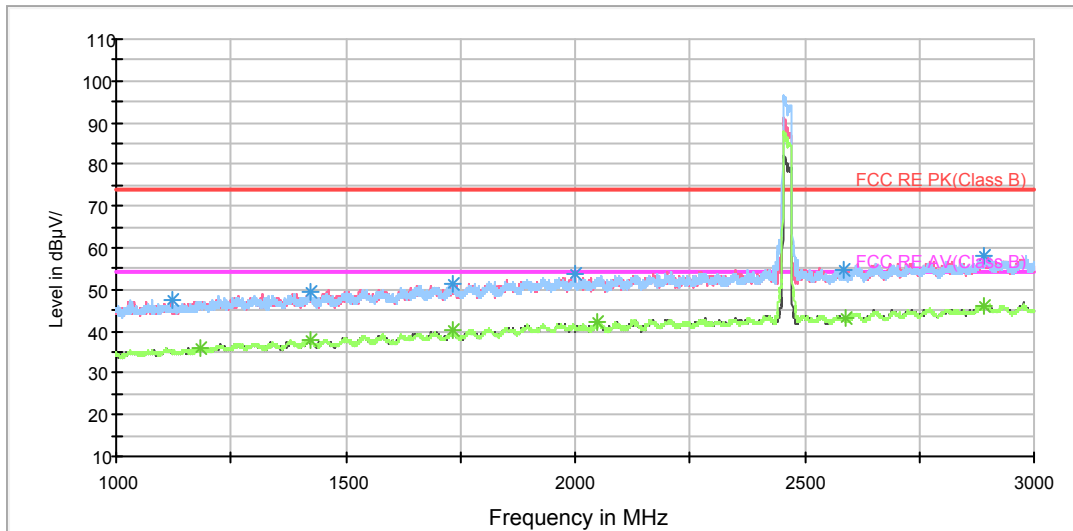
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1189.750000	36.3	100.0	V	123.0	35.3	1.0	17.7	54
1422.000000	38.1	100.0	H	260.0	35.5	2.6	15.9	54
1729.750000	40.1	200.0	V	328.0	35.2	4.9	13.9	54
2049.000000	42.2	200.0	V	0.0	35.0	7.2	11.8	54
2569.500000	43.7	100.0	V	265.0	35.0	8.7	10.3	54
2806.000000	45.6	200.0	V	52.0	35.1	10.5	8.4	54

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

802.11n (HT20) CH11

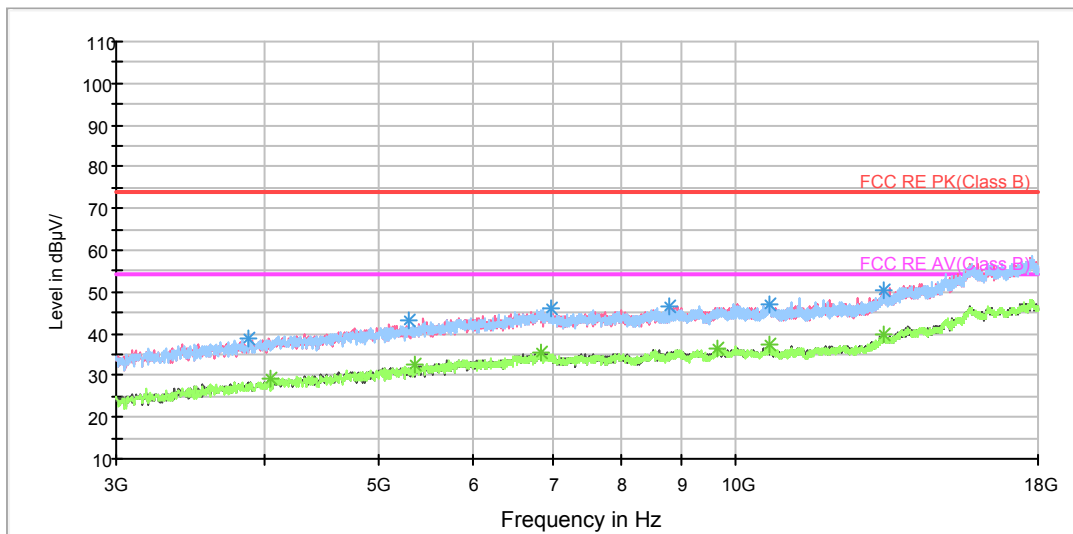
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1120.500000	47.6	200.0	V	104.0	47.0	0.6	26.4	74
1421.500000	49.2	200.0	H	165.0	46.6	2.6	24.8	74
1731.500000	51.2	100.0	V	236.0	46.1	5.1	22.8	74
2001.500000	53.5	200.0	V	15.0	46.5	7.0	20.5	74
2890.750000	58.1	200.0	H	155.0	46.8	11.3	15.9	74
2586.250000	54.5	100.0	H	0.0	45.3	9.2	19.5	74

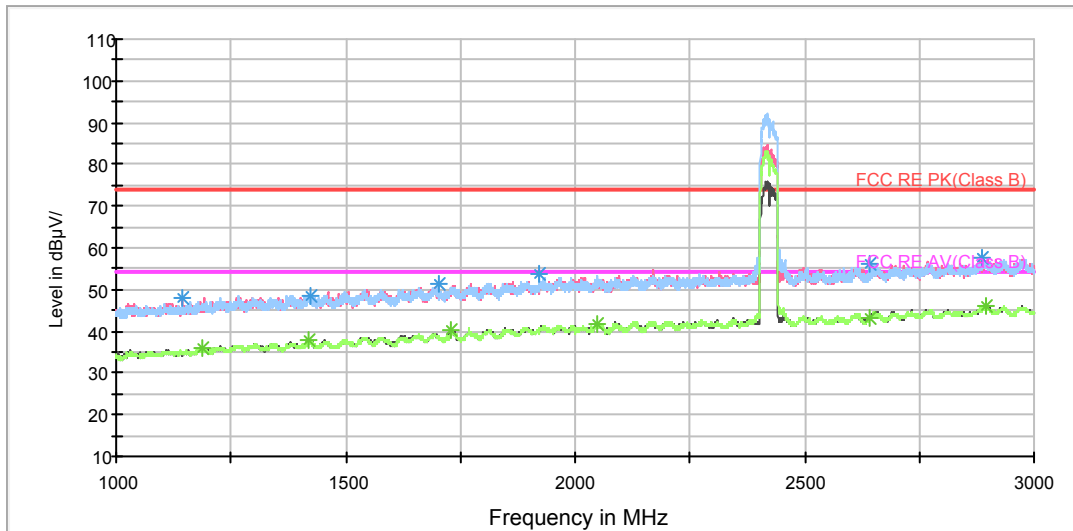
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1184.500000	36.2	200.0	H	64.0	35.1	1.1	17.8	54
1425.250000	38.0	200.0	V	227.0	35.5	2.5	16.0	54
1731.750000	40.1	200.0	V	350.0	35.0	5.1	13.9	54
2048.750000	42.1	200.0	V	140.0	34.9	7.2	11.9	54
2891.750000	45.9	200.0	V	296.0	34.6	11.3	8.1	54
2589.000000	43.1	200.0	V	5.0	33.8	9.3	10.9	54

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

802.11n (HT40) CH3

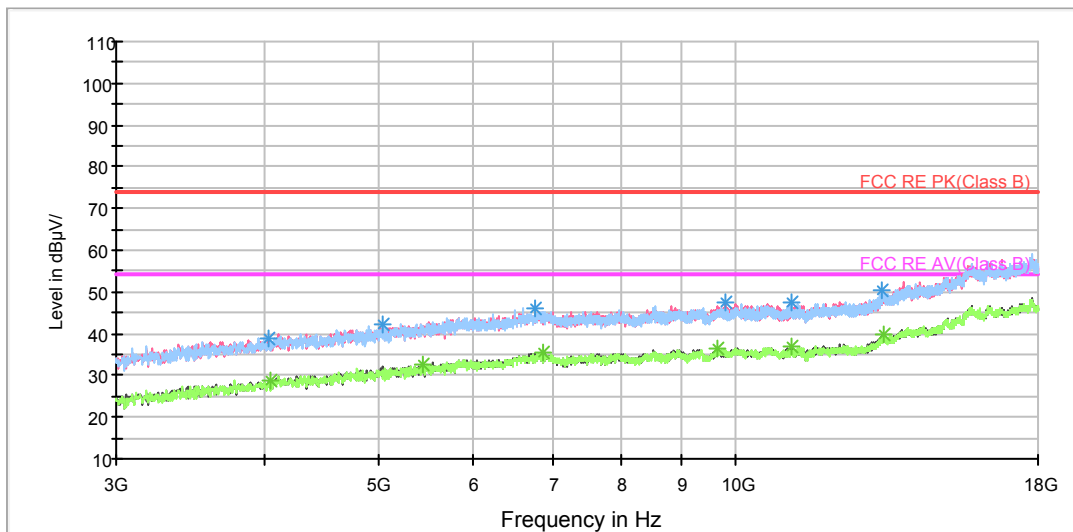
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1144.750000	47.8	200.0	V	139.0	47.2	0.6	26.2	74
1423.250000	48.7	100.0	V	320.0	46.2	2.5	25.3	74
1701.000000	51.5	200.0	H	27.0	46.5	5.0	22.5	74
1923.000000	53.5	100.0	H	0.0	47.1	6.4	20.5	74
2887.750000	57.5	100.0	V	264.0	46.1	11.4	16.5	74
2643.750000	56.0	100.0	H	29.0	46.4	9.6	18.0	74

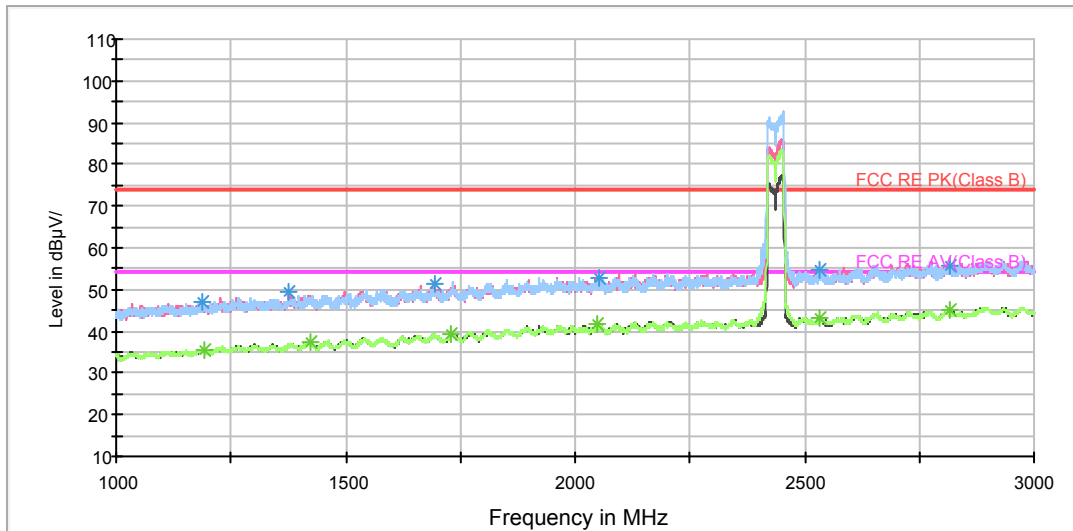
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1187.750000	36.0	100.0	V	0.0	34.9	1.1	18.0	54
1421.250000	37.7	200.0	H	3.0	35.1	2.6	16.3	54
1730.500000	40.2	200.0	V	185.0	35.2	5.0	13.8	54
2049.500000	41.9	100.0	V	294.0	34.7	7.2	12.1	54
2895.250000	45.9	200.0	H	318.0	34.6	11.3	8.1	54
2643.500000	43.3	200.0	V	144.0	33.7	9.6	10.7	54

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

802.11n (HT40) CH6

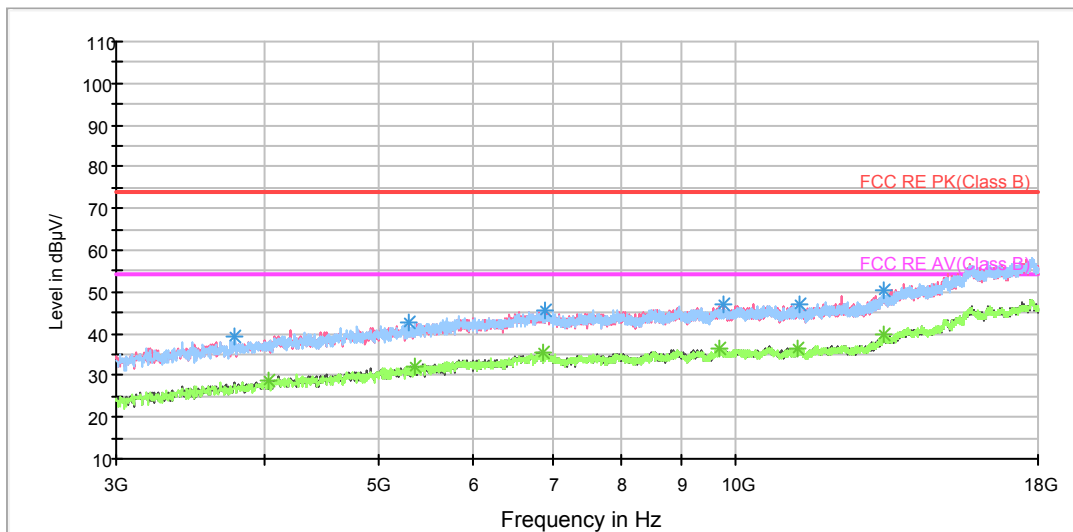
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1189.250000	47.1	200.0	H	340.0	46.1	1.0	26.9	74
1377.250000	49.6	200.0	V	5.0	47.3	2.3	24.4	74
1693.000000	51.2	100.0	H	115.0	46.3	4.9	22.8	74
2053.500000	52.9	200.0	V	298.0	45.7	7.2	21.1	74
2531.500000	54.5	100.0	H	14.0	45.5	9.0	19.5	74
2816.000000	55.5	200.0	V	30.0	44.8	10.7	18.5	74

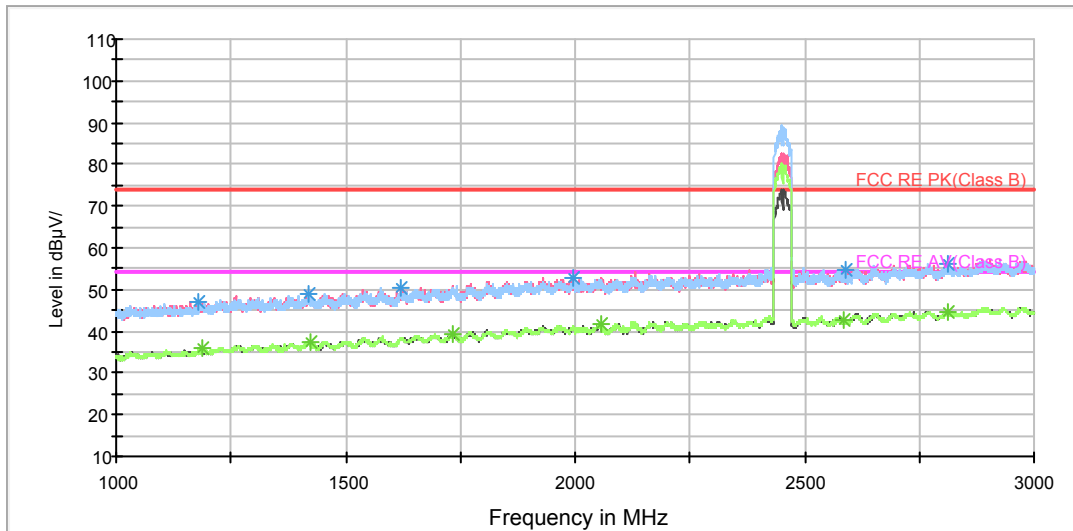
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1190.750000	35.7	100.0	V	344.0	34.7	1.0	18.3	54
1425.250000	37.4	100.0	V	242.0	34.9	2.5	16.6	54
1727.500000	39.3	200.0	V	70.0	34.4	4.9	14.7	54
2048.000000	41.7	200.0	V	132.0	34.5	7.2	12.3	54
2534.500000	43.2	100.0	V	252.0	34.2	9.0	10.8	54
2815.000000	45.2	200.0	V	313.0	34.5	10.7	8.8	54

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

802.11n (HT40) CH9

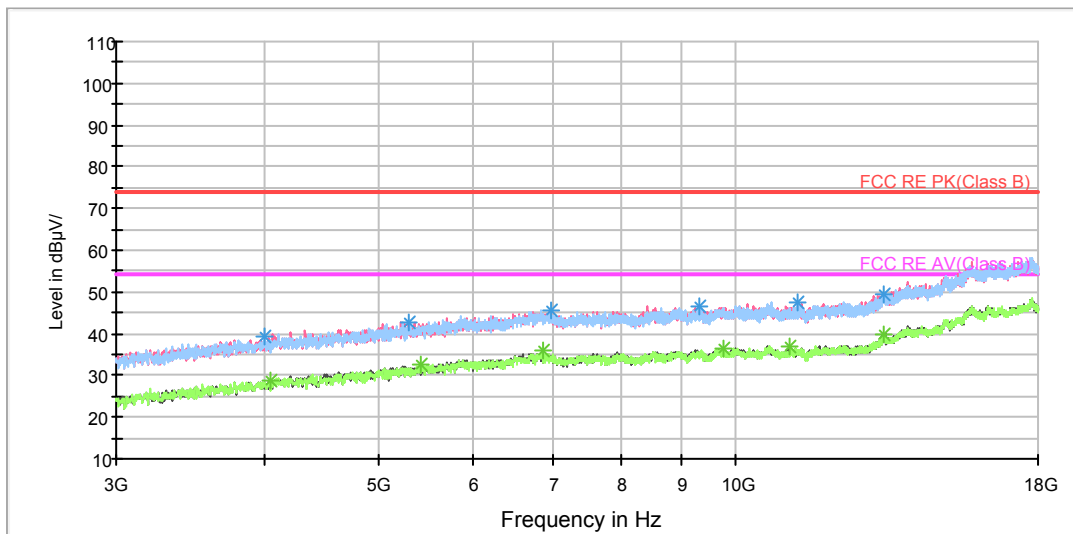
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1178.500000	47.2	100.0	H	98.0	46.0	1.2	26.8	74
1418.500000	49.0	100.0	H	128.0	46.5	2.5	25.0	74
1620.500000	50.2	100.0	V	174.0	45.3	4.9	23.8	74
1996.500000	52.9	100.0	V	230.0	45.7	7.2	21.1	74
2589.750000	54.9	100.0	H	14.0	45.6	9.3	19.1	74
2812.250000	56.0	200.0	V	281.0	45.4	10.6	18.0	74

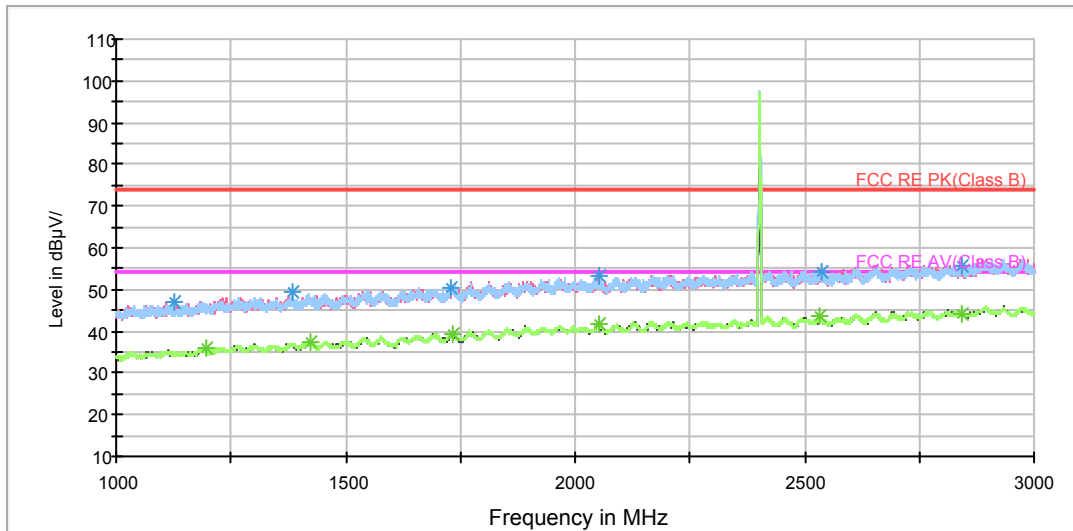
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1187.000000	35.8	100.0	V	241.0	34.7	1.1	18.2	54
1422.000000	37.5	100.0	H	30.0	34.9	2.6	16.5	54
1731.750000	39.3	200.0	H	189.0	34.2	5.1	14.7	54
2055.500000	41.6	200.0	H	199.0	34.4	7.2	12.4	54
2583.250000	42.8	200.0	H	127.0	33.8	9.0	11.2	54
2813.000000	44.7	100.0	V	215.0	34.1	10.6	9.3	54

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

BLE-Channel 0

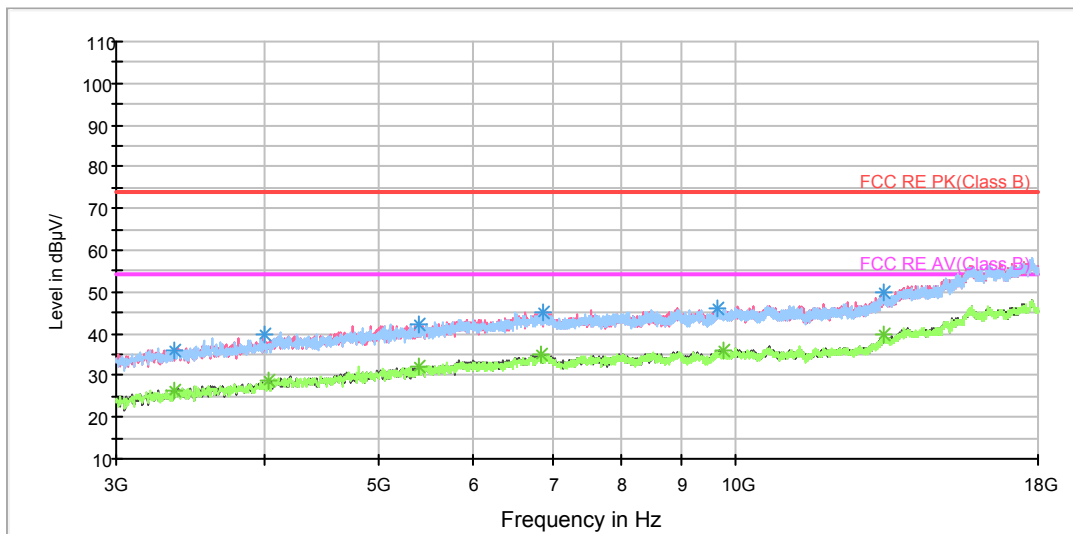
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1124.750000	47.2	200.0	H	158.0	46.5	0.7	26.8	74
1384.750000	49.2	100.0	V	13.0	46.8	2.4	24.8	74
1729.750000	50.4	200.0	V	0.0	45.5	4.9	23.6	74
2052.250000	53.3	100.0	V	253.0	46.1	7.2	20.7	74
2537.750000	54.4	200.0	H	147.0	45.4	9.0	19.6	74
2842.250000	55.7	100.0	H	149.0	45.1	10.6	18.3	74

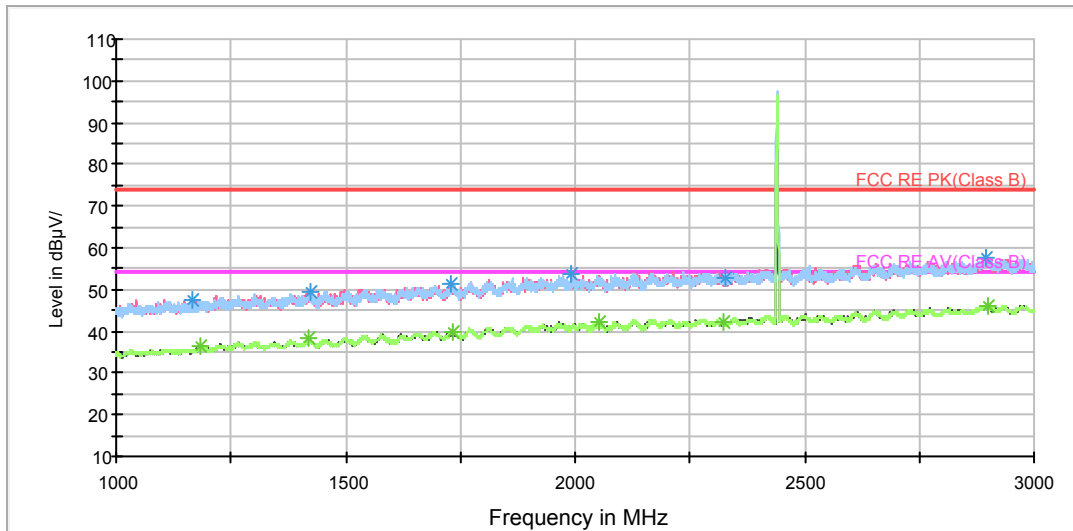
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1196.000000	35.7	200.0	V	50.0	34.7	1.0	18.3	54
1421.750000	37.4	100.0	V	0.0	34.8	2.6	16.6	54
1731.750000	39.5	200.0	V	142.0	34.4	5.1	14.5	54
2052.250000	41.6	100.0	V	253.0	34.4	7.2	12.4	54
2532.500000	43.5	200.0	H	285.0	34.5	9.0	10.5	54
2841.500000	44.2	100.0	H	174.0	33.6	10.6	9.8	54

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

BLE-Channel 19

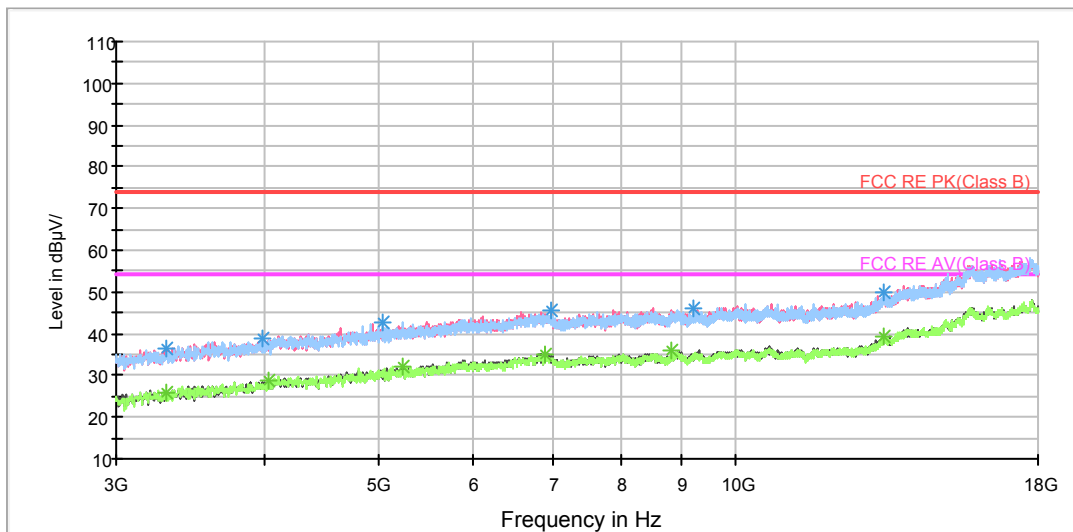
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1166.250000	47.7	100.0	H	181.0	46.7	1.0	26.3	74
1424.750000	49.3	100.0	V	59.0	46.8	2.5	24.7	74
1728.750000	51.5	200.0	H	190.0	46.6	4.9	22.5	74
1989.500000	54.0	200.0	V	64.0	47.0	7.0	20.0	74
2325.500000	52.9	200.0	V	76.0	44.8	8.1	21.1	74
2896.250000	57.7	200.0	H	0.0	46.4	11.3	16.3	74

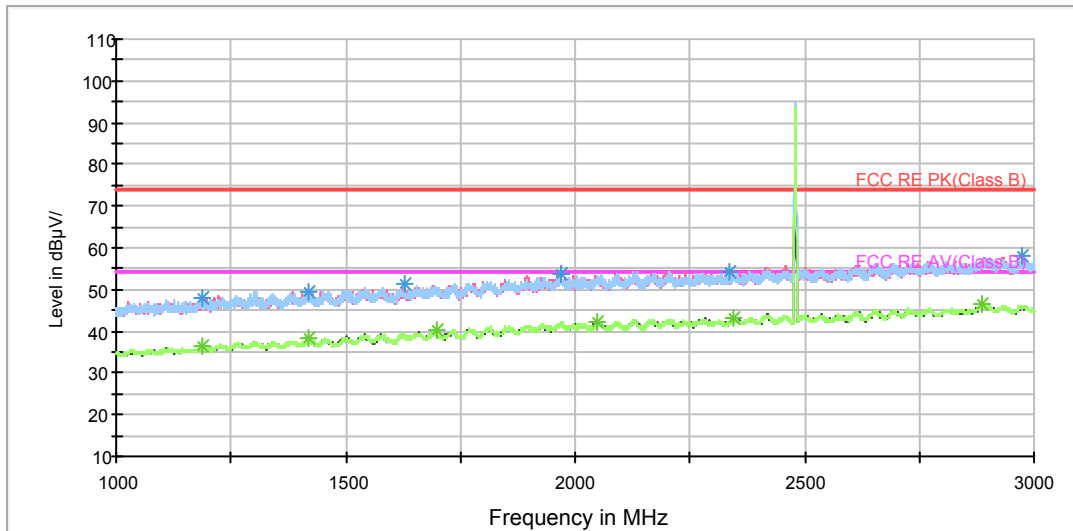
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1184.750000	36.4	100.0	V	289.0	35.3	1.1	17.6	54
1418.750000	38.2	200.0	H	0.0	35.7	2.5	15.8	54
1732.000000	40.0	200.0	H	172.0	34.9	5.1	14.0	54
2052.750000	42.1	200.0	V	283.0	34.9	7.2	11.9	54
2325.250000	42.2	200.0	V	148.0	34.1	8.1	11.8	54
2899.000000	46.3	200.0	H	99.0	35.1	11.2	7.7	54

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

BLE-Channel 39

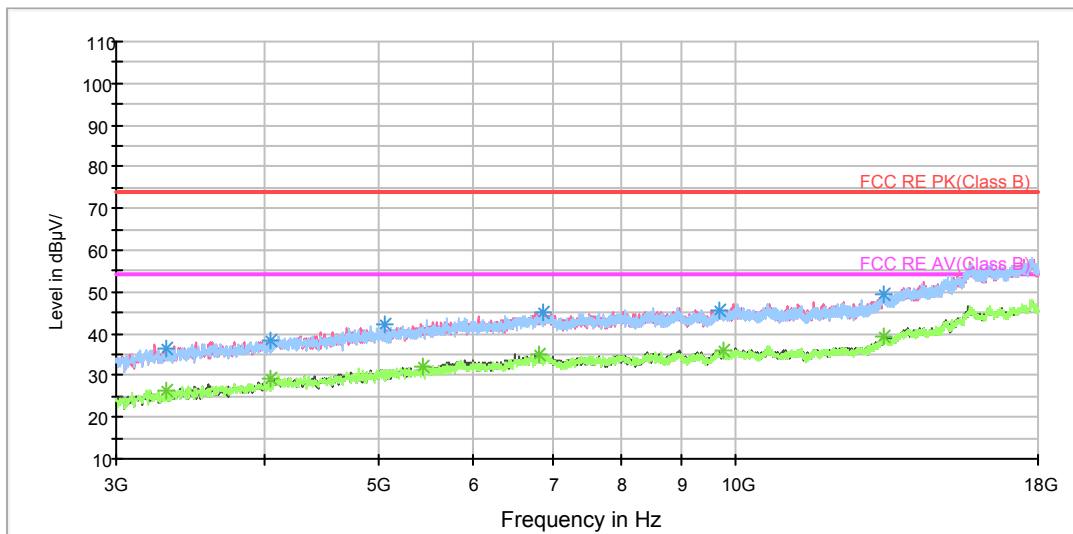
RE 1G-3GHz PK+AV



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

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1186.000000	48.0	100.0	H	129.0	46.9	1.1	26.0	74
1417.500000	49.6	200.0	H	282.0	47.1	2.5	24.4	74
1629.000000	51.3	200.0	H	264.0	46.3	5.0	22.7	74
1968.750000	53.7	100.0	H	16.0	46.9	6.8	20.3	74
2337.500000	54.1	200.0	H	102.0	45.7	8.4	19.9	74
2972.750000	58.3	200.0	H	184.0	47.0	11.3	15.7	74

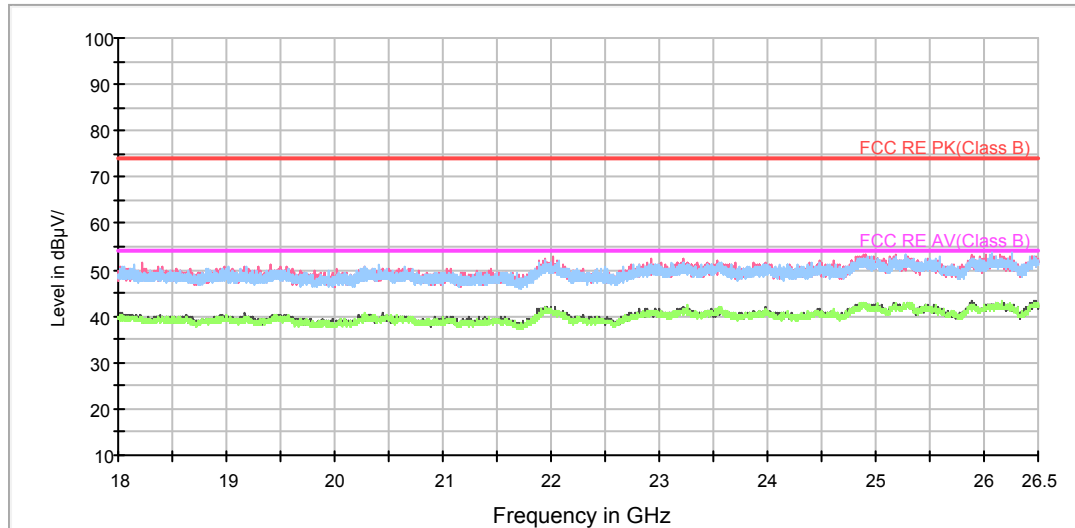
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1187.750000	36.5	200.0	V	70.0	35.4	1.1	17.5	54
1421.250000	38.2	100.0	H	3.0	35.6	2.6	15.8	54
1699.250000	40.1	100.0	H	0.0	35.2	4.9	13.9	54
2048.750000	42.2	100.0	H	76.0	35.0	7.2	11.8	54
2344.750000	43.0	200.0	V	168.0	34.6	8.4	11.0	54
2887.000000	46.5	200.0	H	251.0	35.1	11.4	7.5	54

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

During the test, the Radiates Emission from 18GHz to 26.5GHz 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.

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

5.7. Conducted Emission

Ambient condition

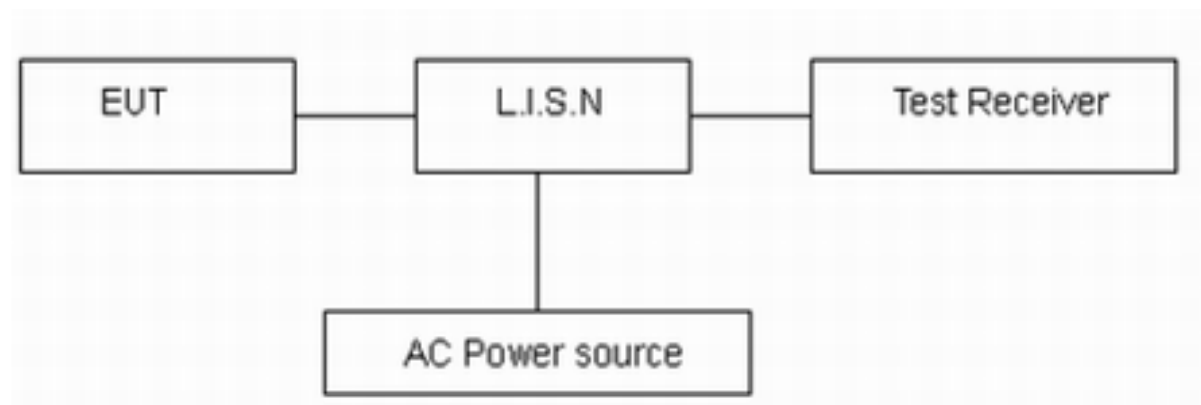
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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

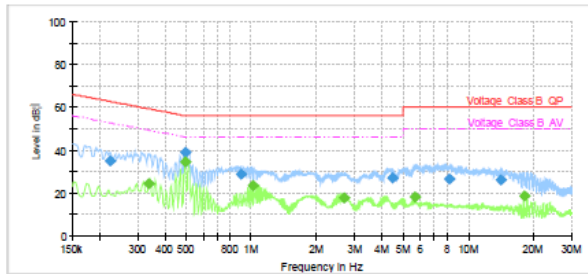
*: Decreases with the logarithm of the frequency.

Measurement Uncertainty

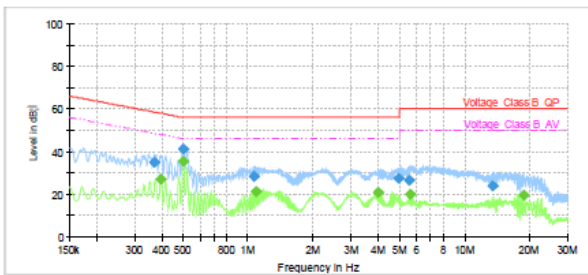
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

**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 (WIFI 2.4G /BLE) 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.

L Line

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.224250	34.86	—	62.66	27.80	1000.0	9.000	L1	ON	19.1
0.336750	—	24.36	49.28	24.92	1000.0	9.000	L1	ON	19.2
0.494250	—	34.55	46.10	11.55	1000.0	9.000	L1	ON	19.2
0.496500	38.96	—	56.06	17.09	1000.0	9.000	L1	ON	19.2
0.889250	28.89	—	56.00	27.11	1000.0	9.000	L1	ON	19.2
1.011750	—	23.35	46.00	22.65	1000.0	9.000	L1	ON	19.2
2.667750	—	17.90	46.00	28.10	1000.0	9.000	L1	ON	19.0
4.476750	27.02	—	56.00	28.98	1000.0	9.000	L1	ON	19.1
5.680500	—	18.02	50.00	31.98	1000.0	9.000	L1	ON	19.1
8.214000	26.37	—	60.00	33.63	1000.0	9.000	L1	ON	19.2
14.178750	25.98	—	60.00	34.02	1000.0	9.000	L1	ON	19.5
18.091500	—	18.40	50.00	31.60	1000.0	9.000	L1	ON	19.5

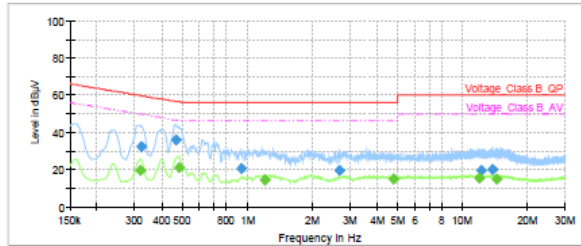
N Line

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.370500	34.84	—	58.49	23.65	1000.0	9.000	N	ON	19.2
0.395250	—	26.92	47.95	21.04	1000.0	9.000	N	ON	19.2
0.501000	—	35.28	46.00	10.72	1000.0	9.000	N	ON	19.2
0.503250	41.23	—	56.00	14.77	1000.0	9.000	N	ON	19.2
1.068000	28.51	—	56.00	27.49	1000.0	9.000	N	ON	19.2
1.086000	—	21.09	46.00	24.91	1000.0	9.000	N	ON	19.2
4.004250	—	21.00	46.00	25.00	1000.0	9.000	N	ON	19.0
4.965000	27.54	—	56.00	28.46	1000.0	9.000	N	ON	19.1
5.365750	26.37	—	60.00	33.63	1000.0	9.000	N	ON	19.1
5.635500	—	19.75	50.00	30.25	1000.0	9.000	N	ON	19.1
13.528500	24.04	—	60.00	35.96	1000.0	9.000	N	ON	19.5
18.703500	—	19.66	50.00	30.34	1000.0	9.000	N	ON	19.4



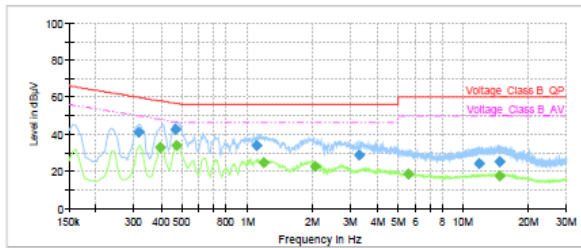
Adapter 5 and USB cable 8

L Line



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.32	---	19.28	49.74	30.46	1000.0	9.000	L1	ON	19.17
0.32	32.23	---	59.62	27.39	1000.0	9.000	L1	ON	19.18
0.47	35.69	---	56.56	20.87	1000.0	9.000	L1	ON	19.23
0.48	---	20.82	46.33	25.51	1000.0	9.000	L1	ON	19.23
0.94	20.54	---	56.00	35.46	1000.0	9.000	L1	ON	19.24
1.21	---	14.46	46.00	31.54	1000.0	9.000	L1	ON	19.23
2.69	19.34	---	56.00	36.66	1000.0	9.000	L1	ON	19.02
4.80	---	14.65	46.00	31.35	1000.0	9.000	L1	ON	19.07
11.95	---	15.28	50.00	34.72	1000.0	9.000	L1	ON	19.40
12.24	19.42	---	60.00	40.58	1000.0	9.000	L1	ON	19.41
13.84	19.82	---	60.00	40.18	1000.0	9.000	L1	ON	19.48
14.47	---	14.91	50.00	35.09	1000.0	9.000	L1	ON	19.49

N Line



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.32	41.14	---	59.80	18.66	1000.0	9.000	N	ON	19.17
0.40	---	32.80	47.91	15.11	1000.0	9.000	N	ON	19.23
0.47	42.58	---	56.52	13.94	1000.0	9.000	N	ON	19.23
0.47	---	33.89	46.48	12.59	1000.0	9.000	N	ON	19.23
1.10	33.62	---	56.00	22.38	1000.0	9.000	N	ON	19.24
1.20	---	24.62	46.00	21.38	1000.0	9.000	N	ON	19.23
2.06	---	22.64	46.00	23.36	1000.0	9.000	N	ON	19.11
3.31	28.64	---	56.00	27.36	1000.0	9.000	N	ON	19.06
5.55	---	18.54	50.00	31.46	1000.0	9.000	N	ON	19.11
11.85	24.16	---	60.00	35.84	1000.0	9.000	N	ON	19.38
14.75	---	17.64	50.00	32.36	1000.0	9.000	N	ON	19.47
14.79	25.06	---	60.00	34.94	1000.0	9.000	N	ON	19.47

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	100815	2018-12-16	2019-12-15
EMI Test Receiver	R&S	ESCI	100948	2018-05-20	2019-05-19
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2017-09-26	2019-09-25
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-201	2017-11-18	2019-11-17
Double Ridged Waveguide Horn Antenna	R&S	HF907	100126	2018-07-07	2020-07-06
Standard Gain Horn	ETS-Lindgren	3160-09	00102643	2018-06-20	2020-06-19
EMI Test Receiver	R&S	ESR	101667	2018-05-20	2019-05-19
LISN	R&S	ENV216	101171	2016-12-16	2019-12-15
Spectrum Analyzer	Agilent	N9010A	MY47191109	2018-05-20	2019-05-19
Power Meter	R&S	NRP	104306	2018-05-20	2019-05-19
Power Sensor	R&S	NRP-Z21	104799	2018-05-20	2019-05-19
RF Cable	Agilent	SMA 15cm	0001	/	/
Software	R&S	EMC32	9.26.0	/	/

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