

RF TEST REPORT

Applicant	ID TECH
FCC ID	WQJ-AP6800
Product	AP6800
Brand	ID TECH
Model	AP6800-0308; AP6800-0308D
Report No.	R2405A0528-R2V1
Issue Date	September 2, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2023)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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TABLE OF CONTENT

1. Test Laboratory	5
1.1. Notes of the test report	5
1.2. Test facility	5
1.3. Testing Location.....	5
2. General Description of Equipment under Test	6
2.1. Applicant and Manufacturer Information	6
2.2. General information	6
3. Applied Standards	8
4. Test Configuration.....	9
5. Test Case Results.....	12
5.1. Unwanted Emission	12
5.2. Conducted Emission	109
6. Main Test Instruments	112
ANNEX A: The EUT Appearance.....	113
ANNEX B: Test Setup Photos	114

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	August 20, 2024
Rev.1	Update description.	September 2, 2024
Note: This revised report (Report No.: R2405A0528-R2V1) supersedes and replaces the previously issued report (Report No.: R2405A0528-R2). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of measurement results

Number	Test Case	Clause in FCC rules	Verdict
1	Unwanted Emissions	15.407(b)	PASS
2	Conducted Emissions	15.207	PASS
Date of Testing: May 17, 2024 ~ August 7, 2024 Date of Sample Received: May 17, 2024			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

Only Unwanted Emissions and Conducted Emissions is tested for AP6800-0308D in this report. Other test items refer to the Module report (Report No.: ER/2020/80122; ER/2020/80123, FCC ID: VPYLB1YM, Grant date: 01/19/2021).

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 **Eurofins 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

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

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

A2LA (Certificate Number: 3857.01)

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

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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E-mail: Kain.Xu@cpt.eurofinscn.com

2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	ID TECH
Applicant address	10721 Walker Street, Cypress, California 90630, United States
Manufacturer	ID TECH TAIWAN
Manufacturer address	No. 16, Lane 22, GaoQing Rd., YanMei Dist., TaoYuan City 326, Taiwan

2.2. General information

EUT Description	
Model	AP6800-0308; AP6800-0308D
SN	415T272329
Hardware Version	Rev.A
Software Version	v1.00
Power Supply	AC Adapter
Antenna Type	Internal Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	4.20 dBi
Operating Frequency Range(s)	U-NII-1: 5150MHz-5250MHz U-NII-2A: 5250MHz -5350MHz U-NII-2C: 5470MHz-5725MHz U-NII-3: 5725MHz -5850MHz
Modulation Type	802.11a: OFDM 802.11n (HT20/HT40): OFDM 802.11ac (VHT20/VHT40/VHT80): OFDM
Operating temperature range	-30 ° C to 70 ° C
Operating voltage range	7.65 V to 10.35 V
State voltage	9 V
Auxiliary Test Equipment	
PC	Manufacturer: DELL Model: 0000053 (SN: 7ZX7R9)
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. This device support automatically discontinue transmission, while the device is not transmitting any information, the device can automatically discontinue transmission and become standby mode for power saving. The device can detect the controlling signal of ACK message transmitting from remote	

device and verify whether it shall resend or discontinue transmission.

3. (a) Manufacturers implements security features in any digitally modulated devices capable of operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software prevents the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers uses means including, but not limited to the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization.

(b) Manufacturers take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device.

4. AP6800-0308 and AP6800-0308D are the same except for different models, and this report only tests AP6800-0308D.

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 15E (2023) Unlicensed National Information Infrastructure Devices

ANSI C63.10-2013

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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 stand-up position (Y axis) and the worst case was recorded.

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

Worst-case data rates are shown as following table.

Band	Data Rate	
	SISO	MIMO
802.11a	6 Mbps	6 Mbps
802.11n HT20	MCS 0	MCS 8
802.11n HT40	MCS 0	MCS 8
802.11ac VHT20	MCS 0	MCS 0
802.11ac VHT40	MCS 0	MCS 0
802.11ac VHT80	MCS 0	MCS 0

The worst case Antenna mode for each of the following tests for Wi-Fi:

Test Cases	Antenna 1	Antenna 2	MIMO
Unwanted Emissions	--	--	O
Conducted Emissions	--	--	O
Note: "O": test all bands			

Wireless Technology and Frequency Range

Wireless Technology		Bandwidth	Channel	Frequency
Wi-Fi	U-NII-1	20 MHz	36	5180MHz
			40	5200MHz
			44	5220MHz
			48	5240MHz
		40 MHz	38	5190MHz
			46	5230MHz
		80 MHz	42	5210MHz
	U-NII-2A	20 MHz	52	5260MHz
			56	5280MHz
			60	5300MHz
			64	5320MHz
		40 MHz	54	5270MHz
			62	5310MHz
		80 MHz	58	5290MHz
	U-NII-2C	20 MHz	100	5500MHz
			104	5520MHz
			108	5540MHz
			112	5560MHz
			116	5580MHz
			120	5600MHz
			124	5620MHz
			128	5640MHz
			132	5660MHz
			136	5680MHz
			140	5700MHz
			144	5720MHz
		40 MHz	102	5510MHz
			110	5550MHz
			118	5590MHz
			126	5630MHz
			134	5670MHz
			142	5710MHz
		80 MHz	106	5530MHz
			122	5610MHz
			138	5690MHz
	U-NII-3	20 MHz	149	5745MHz
			153	5765MHz
			157	5785MHz
			161	5805MHz
			165	5825MHz

		40 MHz	151	5755MHz
			159	5795MHz
		80 MHz	155	5775MHz
Does this device support TPC Function? ☐ Yes ☒ No				
Does this device support TDWR Band? ☒ Yes ☐ No				

5. Test Case Results

5.1. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. EUT and receive antenna should be 10 meters below 1GHz; 3 meters for above 1GHz. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

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

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

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

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

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

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

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

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.

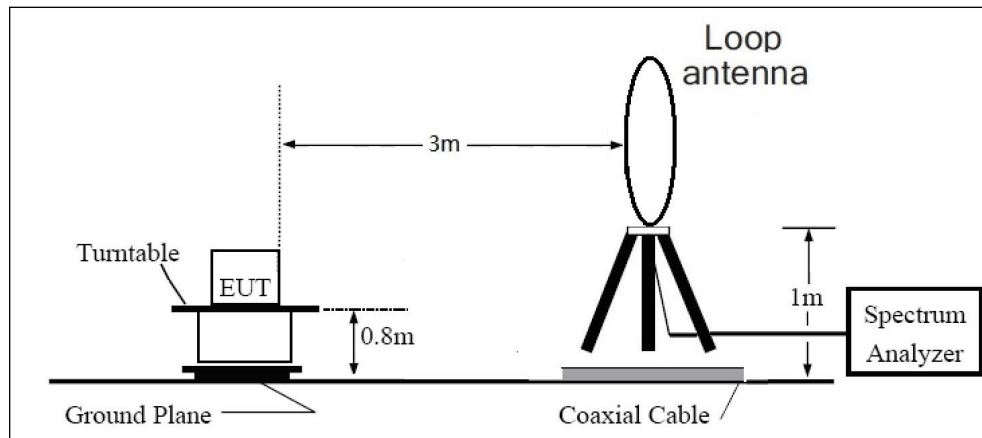
Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than $[1 / (\text{minimum transmitter on time})]$ and no less than 1 Hz.

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

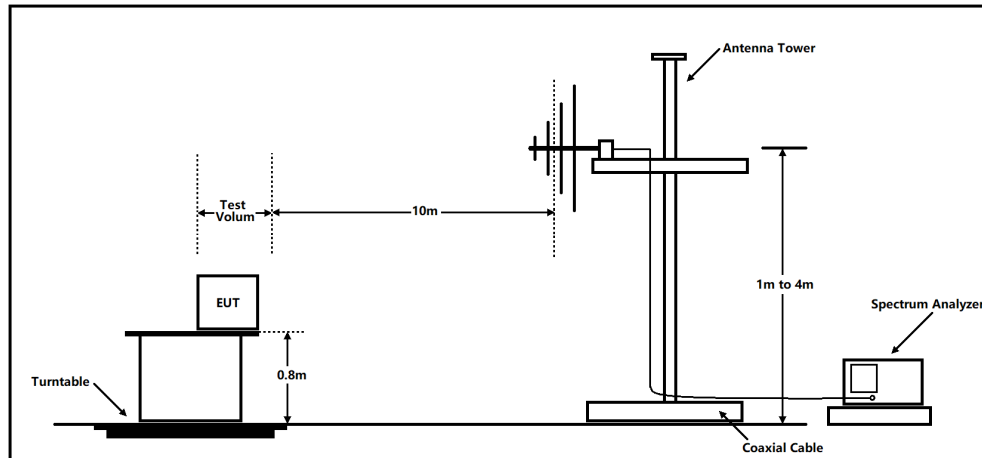
The test is in transmitting mode.

Test setup

9kHz~ 30MHz

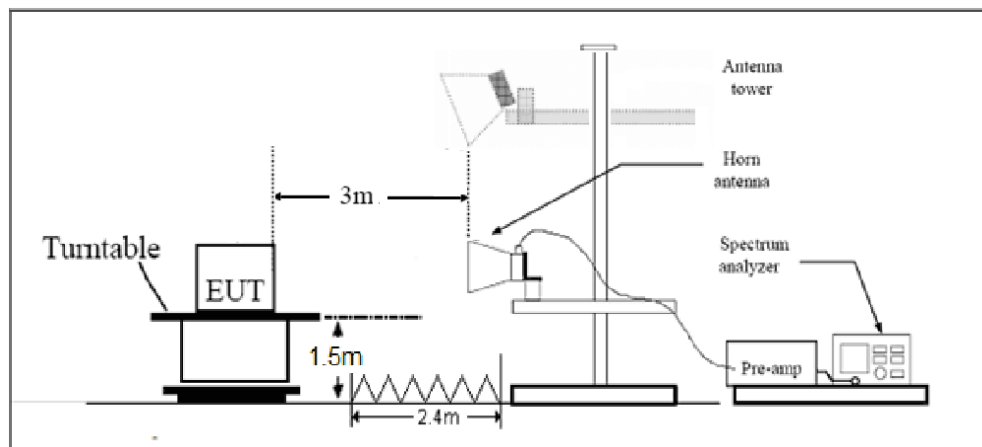


30MHz~ 1GHz



Note: Area side: 21m x 12m

Above 1GHz



Note: Area side: 2.4mX3.6m

Limits

- (1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

- (5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength($\mu\text{V/m}$)	Field strength($\text{dB}\mu\text{V/m}$)
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

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(3m)	Uncertainty(10m)
9kHz-30MHz	3.55 dB	--
30MHz-200MHz	4.17 dB	3.39 dB
200MHz-1GHz	4.84 dB	3.82 dB
1-18GHz	4.35 dB	--
18-26.5GHz	5.90 dB	--
26.5GHz~40GHz	5.92 dB	--

Test Results:

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

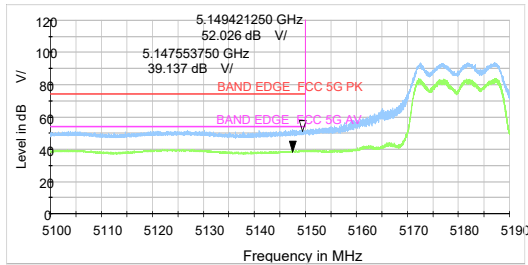
The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

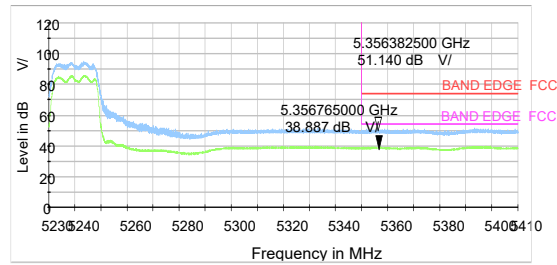
The signal beyond the limit is carrier.

U-NII-1

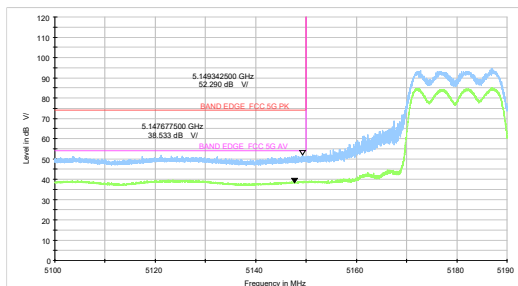
802.11a-Channel 36: Peak + Average



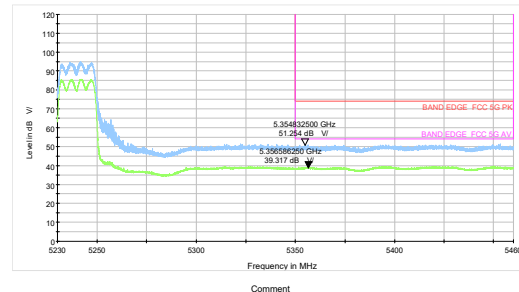
802.11a-Channel 48: Peak + Average



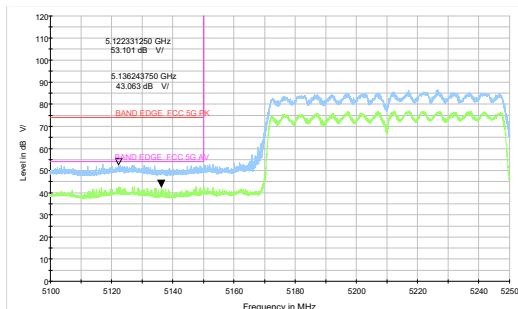
802.11n HT20-Channel 36: Peak + Average



802.11n HT20-Channel 48: Peak + Average

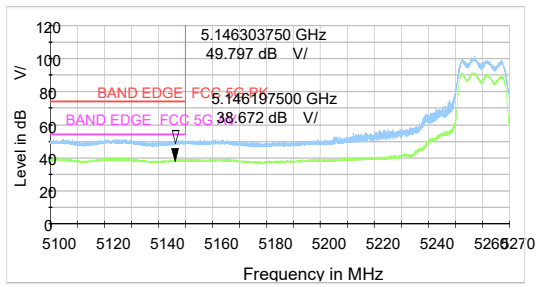


802.11ac VHT80 –Channel 42: Peak + Average

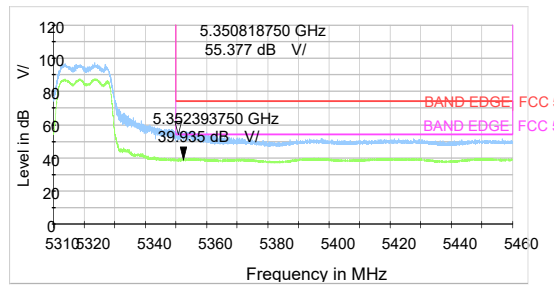


U-NII-2A

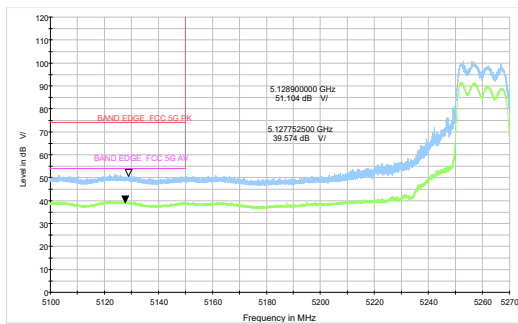
802.11a-Channel 52: Peak + Average



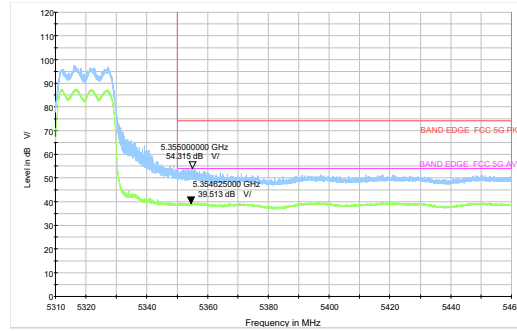
802.11a-Channel 64: Peak + Average



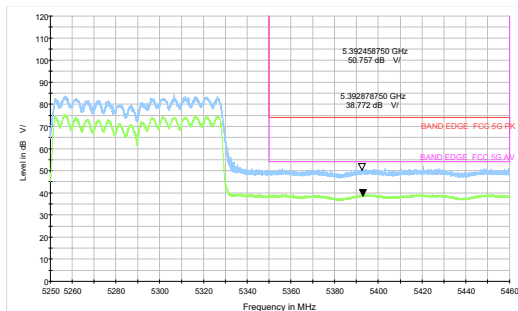
802.11n HT20-Channel 52: Peak + Average



802.11n HT20-Channel 64: Peak + Average

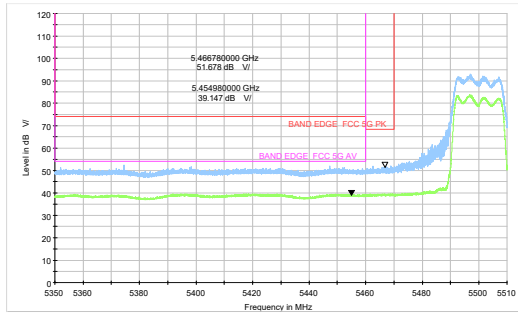


802.11ac VHT80 -Channel 58: Peak + Average

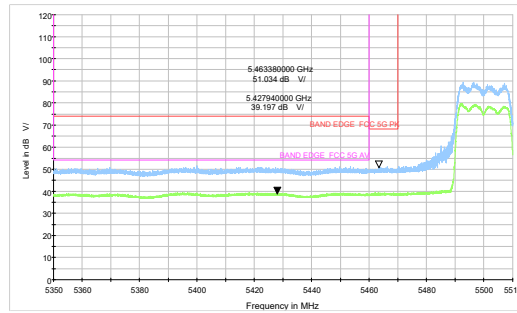


U-NII-2C

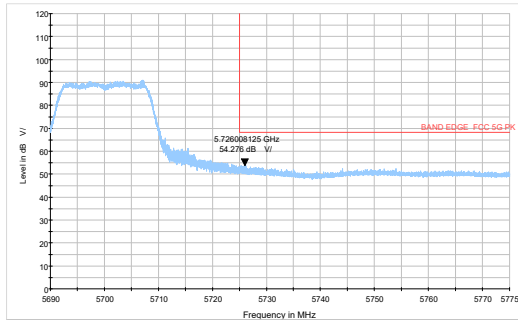
802.11a-Channel 100: Peak + Average



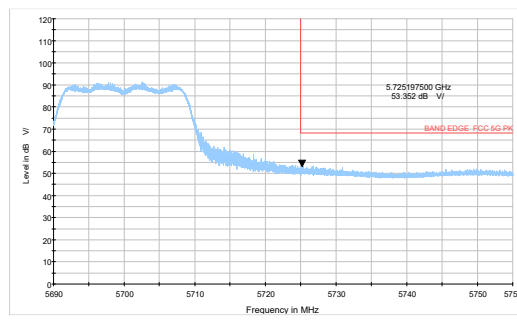
802.11n HT20-Channel 100: Peak + Average



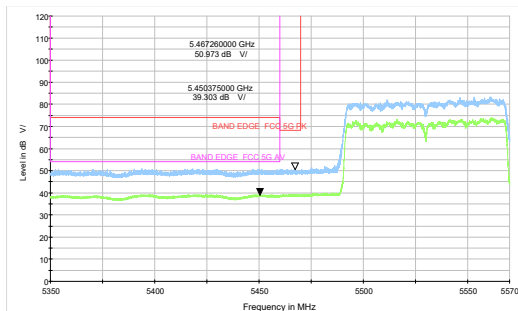
802.11a-Channel 140: Peak



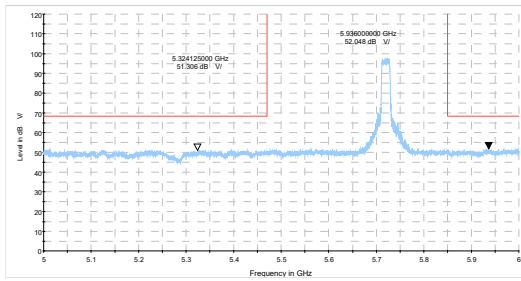
802.11n HT20-Channel 140: Peak



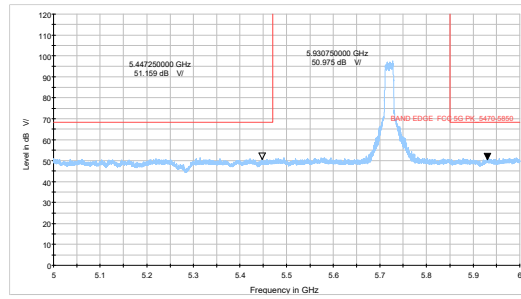
802.11ac VHT80-Channel 106: Peak + Average



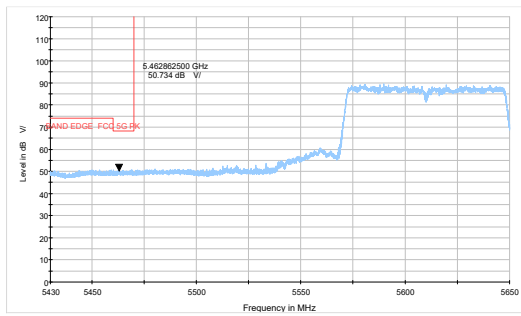
802.11a-Channel 144: Peak



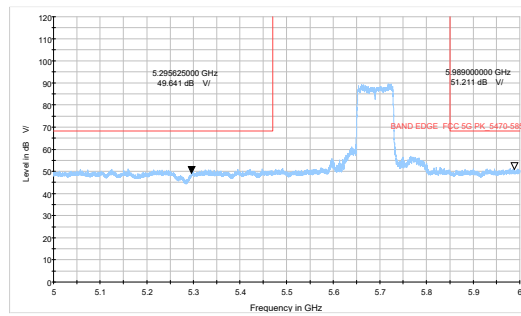
802.11n HT20-Channel 144: Peak



802.11ac VHT80-Channel 122: Peak

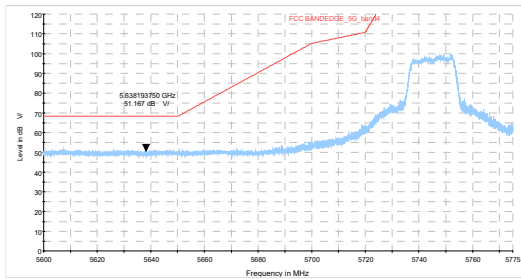


802.11ac VHT80-Channel 138: Peak

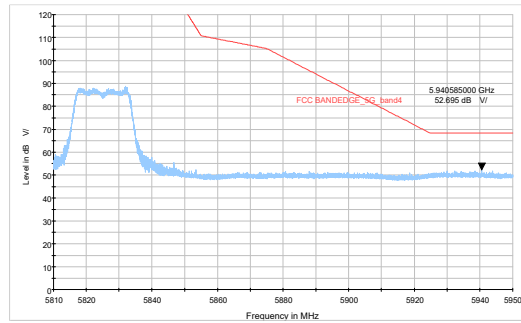


U-NII-3

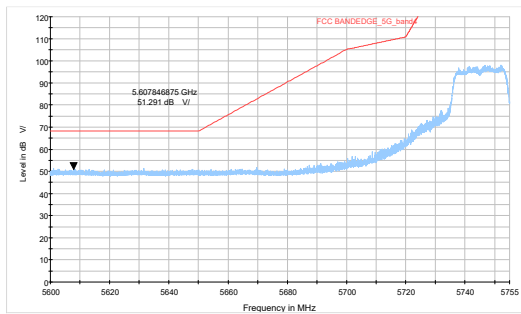
802.11a-Channel 149: Peak



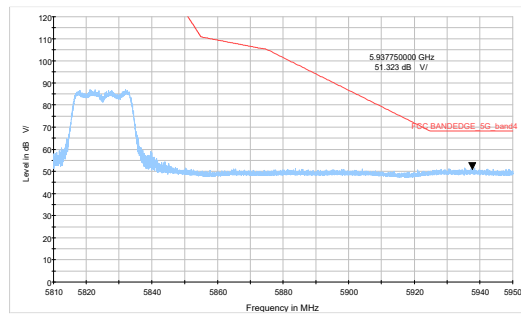
802.11a-Channel 165: Peak



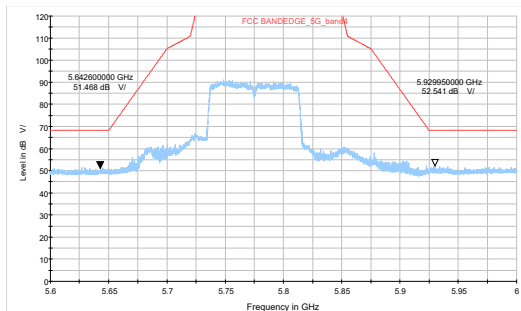
802.11n HT20-Channel 149: Peak



802.11n HT20-Channel 165: Peak



802.11ac VHT80- Channel 155: Peak



Result of RE

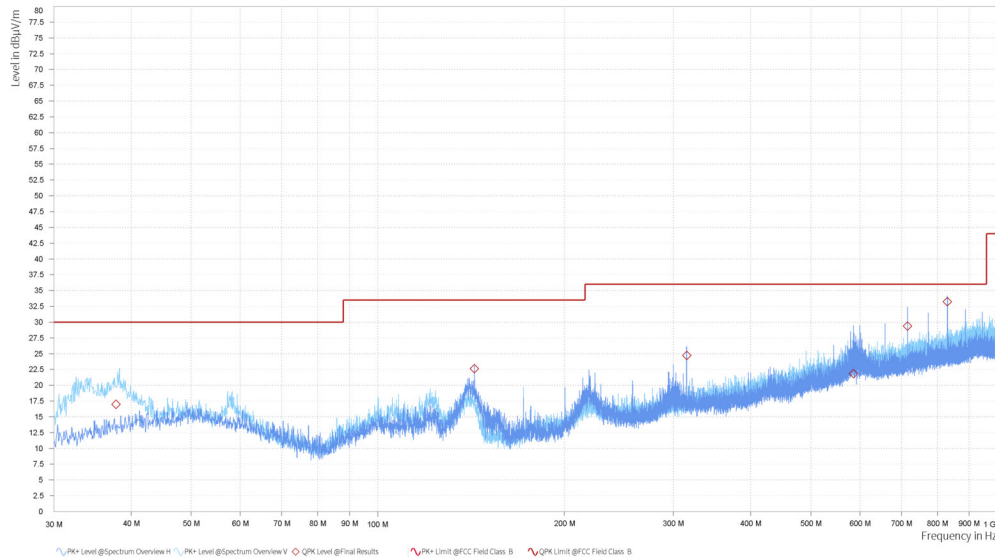
Test result

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 are more than 20dB below the limit are not reported.

A symbol (dB μ V/m) in the test plot below means (dB μ V/m)

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11n (HT20) CH149 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:

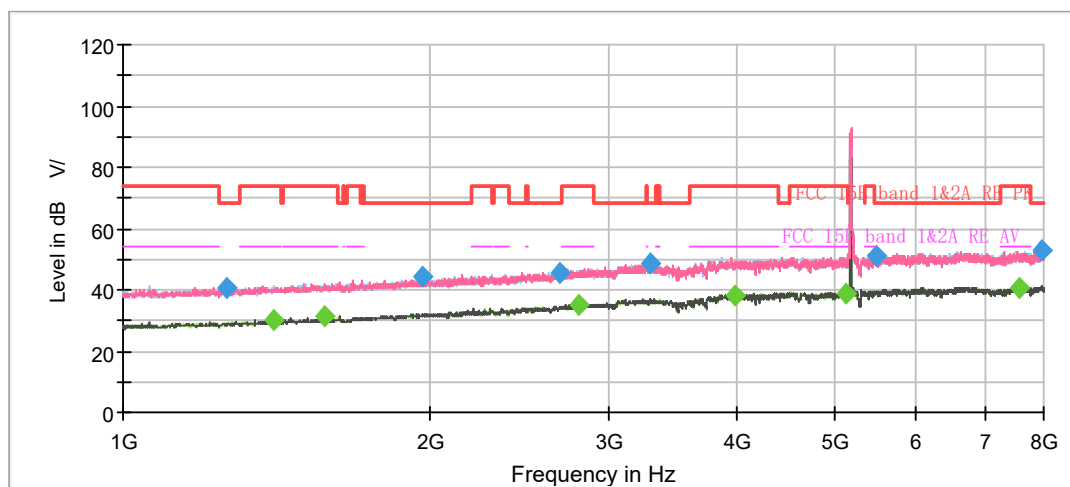


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (m)	Polarization	Azimuth (deg)	Correct Factor (dB)
143.221	22.63	33.50	10.87	3.25	H	97.3	-13.61
315.132	24.69	36.00	11.31	3.01	H	294.2	-7.63
585.966	21.84	36.00	14.16	1.91	H	111.2	-2.10
716.167	29.37	36.00	6.63	1.25	H	107.3	-1.52
830.735	33.23	36.00	2.77	1.00	H	118.1	-0.14
837.819	17.01	30.00	12.99	1.25	V	37.1	-10.22

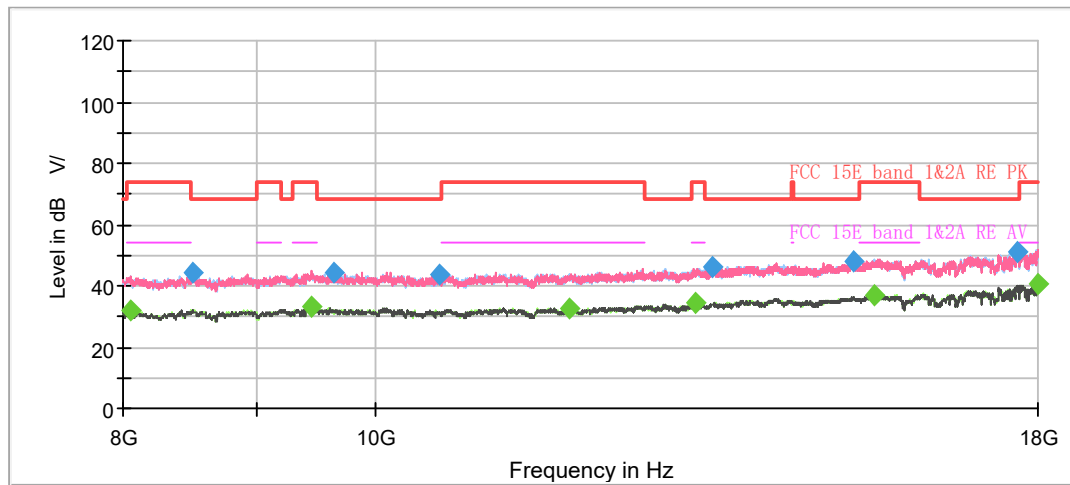
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss)

2. Margin = Limit – Quasi-Peak



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

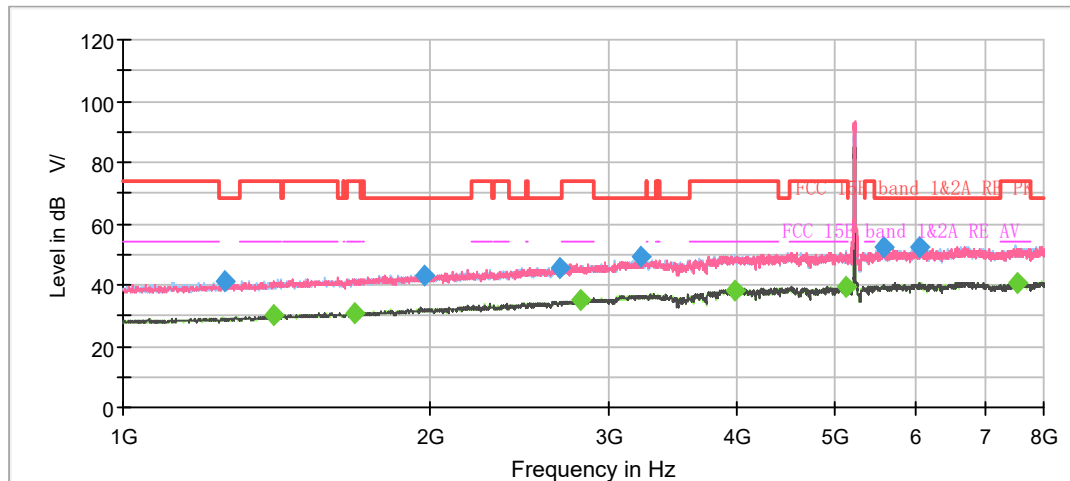
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1265.125000	40.82	---	68.20	27.38	500.0	100.0	V	15.0	-8.2
1403.375000	---	30.04	54.00	23.96	500.0	100.0	V	48.0	-7.5
1574.875000	---	31.10	54.00	22.90	500.0	200.0	V	289.0	-6.5
1969.500000	44.06	---	68.20	24.14	500.0	100.0	V	20.0	-4.6
2684.375000	45.64	---	68.20	22.56	500.0	200.0	V	239.0	-1.8
2800.750000	---	35.30	54.00	18.70	500.0	200.0	V	294.0	-1.4
3291.625000	48.42	---	68.20	19.78	500.0	100.0	V	87.0	0.6
3990.750000	---	38.46	54.00	15.54	500.0	100.0	H	311.0	2.9
5120.375000	---	39.07	54.00	14.93	500.0	200.0	H	26.0	5.1
5480.000000	51.37	---	68.20	16.83	500.0	200.0	V	315.0	6.2
7566.000000	---	40.74	54.00	13.26	500.0	200.0	V	339.0	7.4
7959.750000	52.72	---	68.20	15.48	500.0	200.0	H	166.0	8.3

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

2. Margin = Limit –MAX Peak/ Average

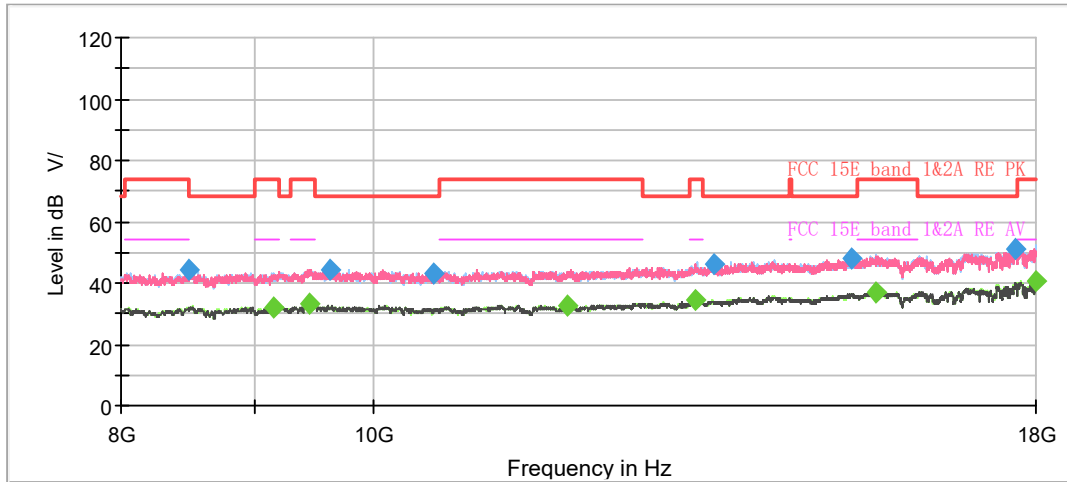
802.11a CH44



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz

PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit



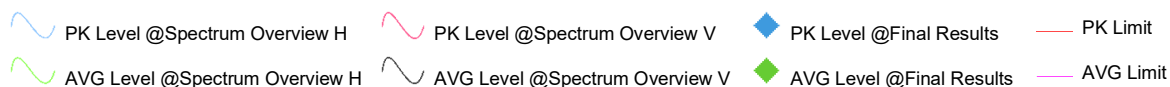
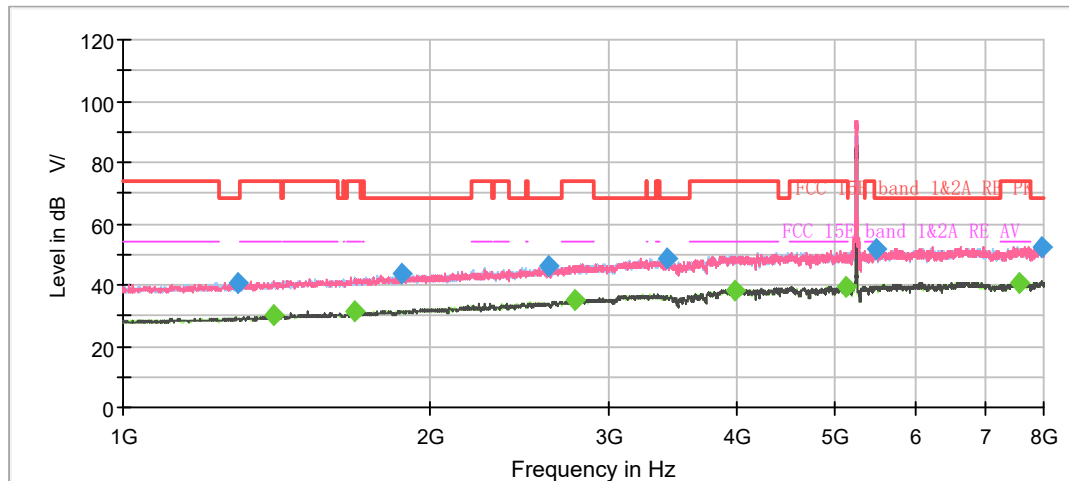
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1255.500000	41.04	---	68.20	27.16	500.0	100.0	H	21.0	-8.3
1403.375000	---	30.11	54.00	23.89	500.0	200.0	V	257.0	-7.5
1689.500000	---	31.01	54.00	22.99	500.0	200.0	V	69.0	-5.9
1977.375000	43.17	---	68.20	25.03	500.0	200.0	H	184.0	-4.6
2679.125000	45.53	---	68.20	22.67	500.0	200.0	V	1.0	-1.9
2815.625000	---	34.94	54.00	19.06	500.0	200.0	H	309.0	-1.3
3216.375000	48.94	---	68.20	19.26	500.0	100.0	V	11.0	0.1
3990.750000	---	38.38	54.00	15.62	500.0	100.0	H	174.0	2.9
5127.375000	---	39.38	54.00	14.62	500.0	100.0	V	337.0	5.2
5576.250000	52.01	---	68.20	16.19	500.0	200.0	H	338.0	6.2
6033.875000	52.61	---	68.20	15.59	500.0	200.0	H	265.0	6.3
7543.250000	---	40.76	54.00	13.24	500.0	200.0	V	93.0	7.4

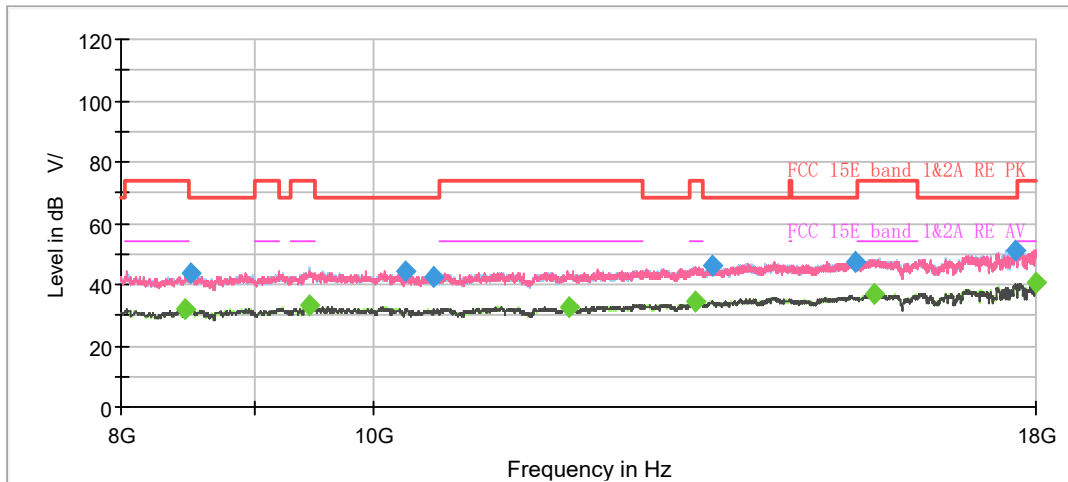
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

802.11a CH48



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

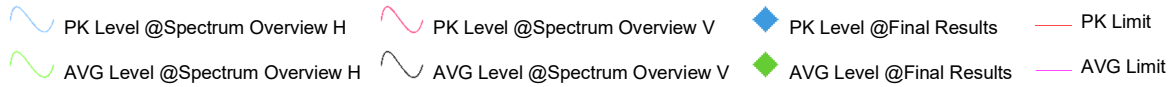
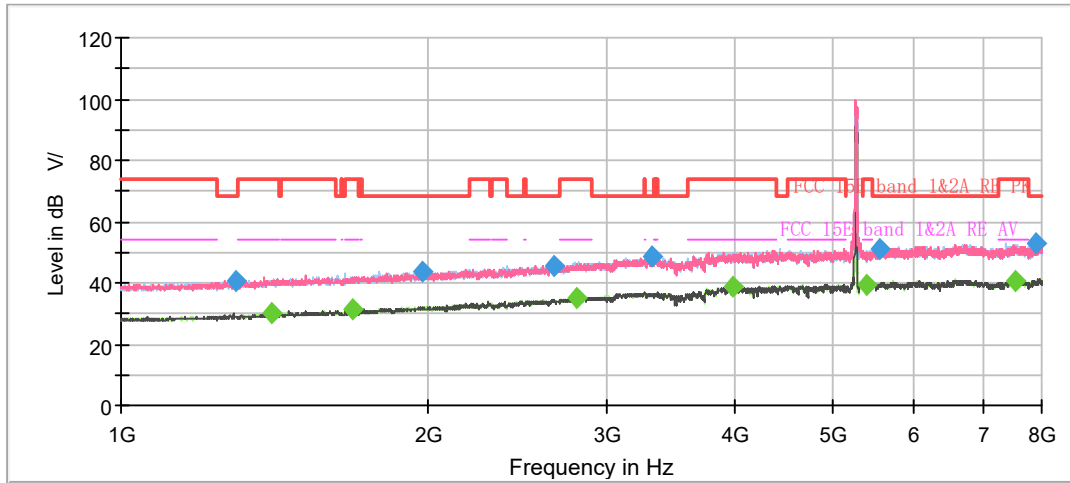
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1298.375000	40.79	---	68.20	27.41	500.0	100.0	H	249.0	-8.0
1403.375000	---	30.06	54.00	23.94	500.0	200.0	V	40.0	-7.5
1689.500000	---	31.15	54.00	22.85	500.0	200.0	V	216.0	-5.9
1879.375000	43.71	---	68.20	24.49	500.0	100.0	H	22.0	-5.0
2611.750000	45.89	---	68.20	22.31	500.0	200.0	H	330.0	-2.1
2779.750000	---	35.15	54.00	18.85	500.0	200.0	H	202.0	-1.5
3414.125000	48.61	---	68.20	19.59	500.0	100.0	V	227.0	1.0
3985.500000	---	38.44	54.00	15.56	500.0	200.0	H	349.0	2.9
5123.875000	---	39.67	54.00	14.33	500.0	200.0	H	344.0	5.2
5475.625000	51.55	---	68.20	16.65	500.0	100.0	H	172.0	6.1
7553.750000	---	40.91	54.00	13.09	500.0	100.0	V	99.0	7.4
7958.875000	52.41	---	68.20	15.79	500.0	200.0	V	96.0	8.3

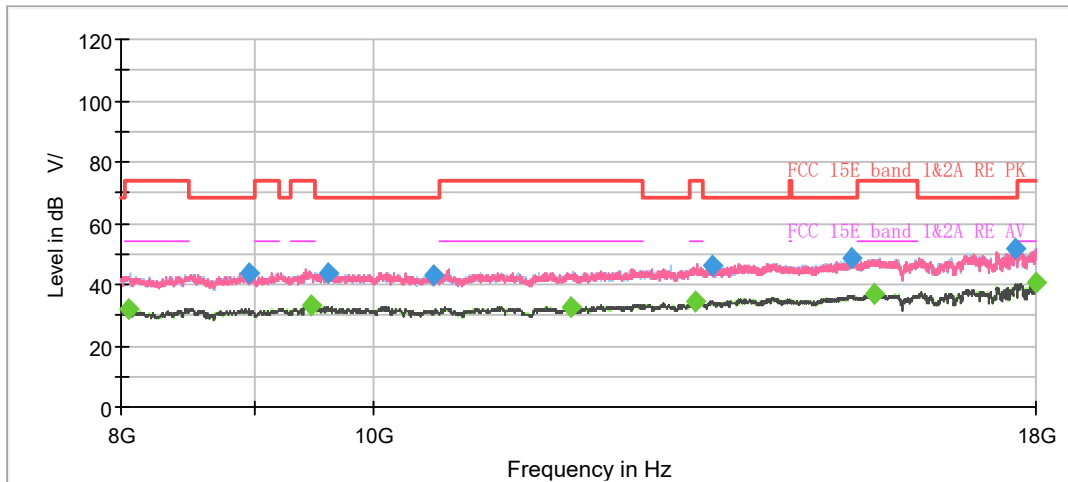
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

802.11a CH52



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



◆ PK Level @Spectrum Overview H ◆ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
◆ AVG Level @Spectrum Overview H ◆ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

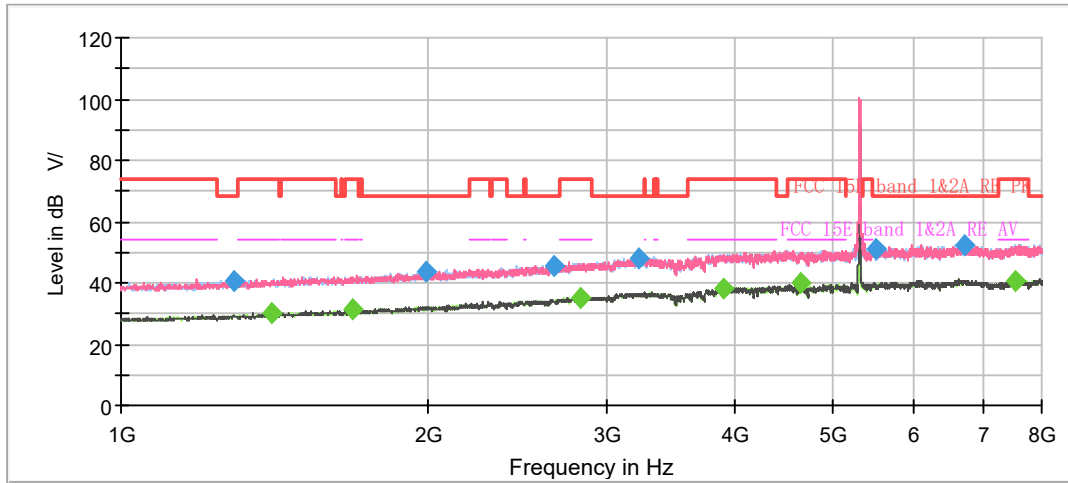
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1294.875000	40.85	---	68.20	27.35	500.0	100.0	V	281.0	-8.1
1403.375000	---	30.18	54.00	23.82	500.0	100.0	V	199.0	-7.5
1689.500000	---	31.28	54.00	22.72	500.0	200.0	V	253.0	-5.9
1976.500000	43.81	---	68.20	24.39	500.0	100.0	V	292.0	-4.6
2659.875000	45.83	---	68.20	22.37	500.0	200.0	V	18.0	-1.9
2794.625000	---	35.13	54.00	18.87	500.0	200.0	V	128.0	-1.4
3321.375000	48.62	---	68.20	19.58	500.0	200.0	V	0.0	0.7
3986.375000	---	38.49	54.00	15.51	500.0	100.0	H	35.0	2.9
5397.750000	---	39.39	54.00	14.61	500.0	200.0	V	55.0	5.7
5540.375000	51.07	---	68.20	17.13	500.0	100.0	V	271.0	6.0
7547.625000	---	40.70	54.00	13.30	500.0	200.0	V	337.0	7.4
7889.750000	52.96	---	68.20	15.24	500.0	100.0	V	241.0	8.1

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

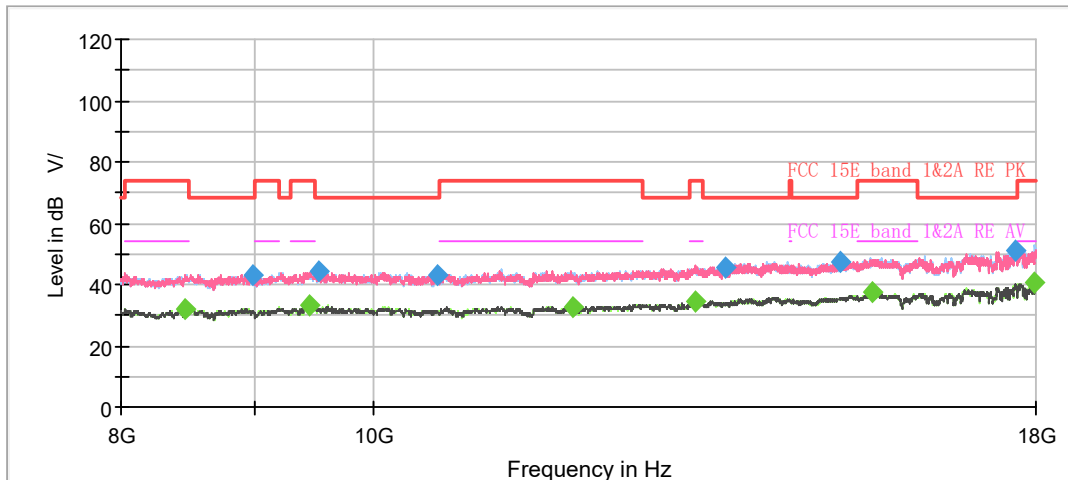
2. Margin = Limit –MAX Peak/ Average

802.11a CH60



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

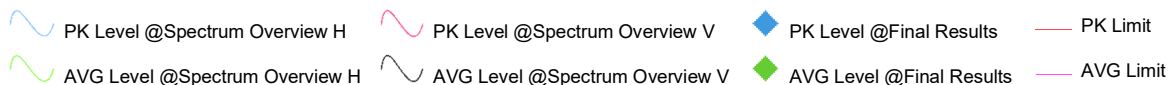
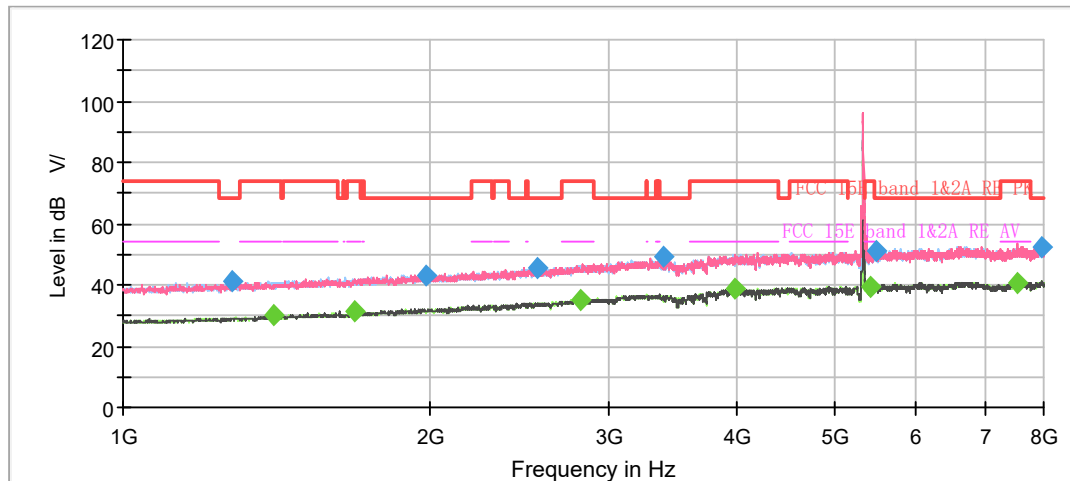
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1289.625000	40.85	---	68.20	27.35	500.0	200.0	V	33.0	-8.1
1403.375000	---	30.24	54.00	23.76	500.0	200.0	V	92.0	-7.5
1689.500000	---	31.32	54.00	22.68	500.0	200.0	V	92.0	-5.9
1994.000000	43.58	---	68.20	24.62	500.0	100.0	H	155.0	-4.5
2658.125000	45.78	---	68.20	22.42	500.0	100.0	V	0.0	-1.9
2819.125000	---	35.04	54.00	18.96	500.0	100.0	V	51.0	-1.3
3226.000000	48.22	---	68.20	19.98	500.0	200.0	H	332.0	0.2
3899.750000	---	38.46	54.00	15.54	500.0	100.0	V	337.0	2.4
4636.500000	---	39.72	54.00	14.28	500.0	200.0	V	243.0	4.3
5491.375000	51.36	---	68.20	16.84	500.0	100.0	V	0.0	6.2
6733.875000	52.49	---	68.20	15.71	500.0	100.0	V	207.0	6.5
7533.625000	---	40.83	54.00	13.17	500.0	100.0	H	241.0	7.4

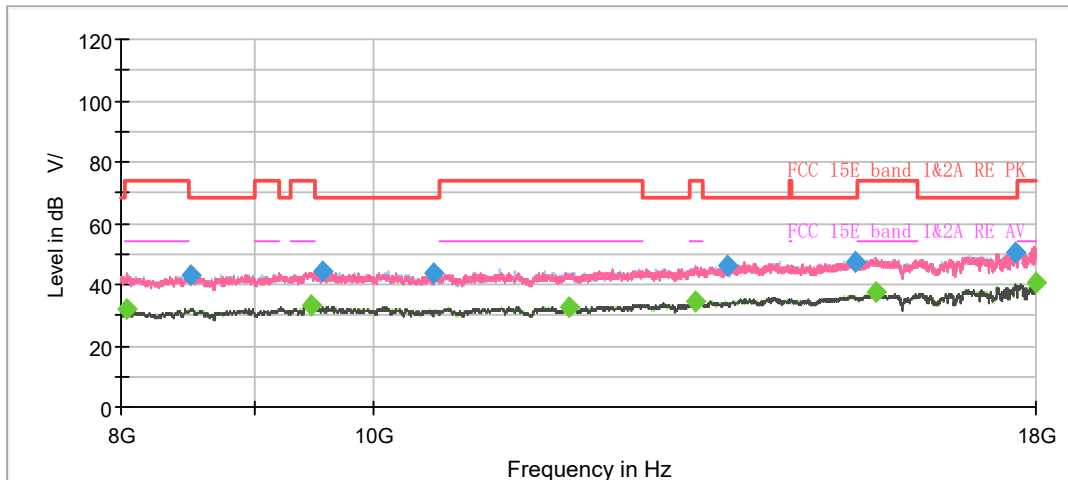
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

802.11a CH64



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

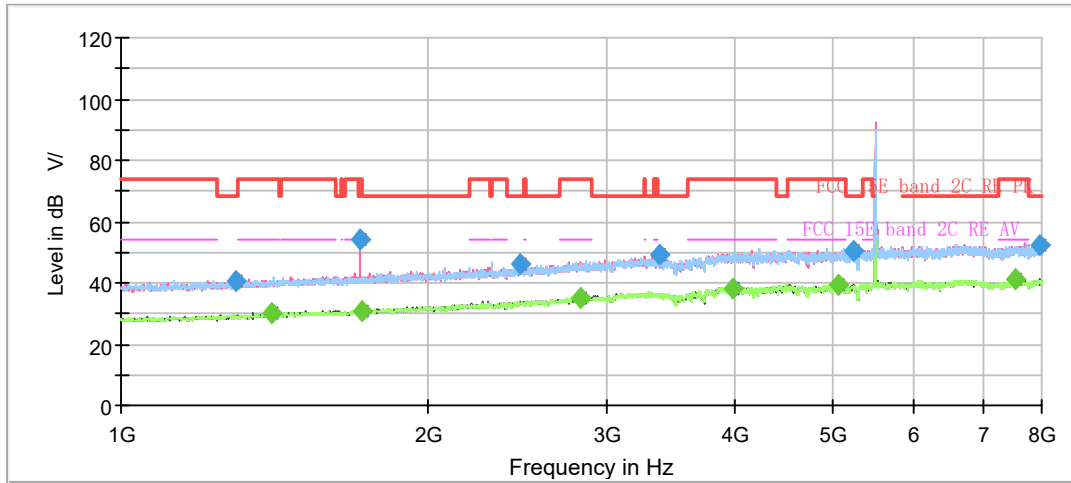
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1278.250000	41.22	---	68.20	26.98	500.0	100.0	H	33.0	-8.2
1403.375000	---	30.03	54.00	23.97	500.0	200.0	V	70.0	-7.5
1689.500000	---	31.10	54.00	22.90	500.0	100.0	H	37.0	-5.9
1987.000000	43.34	---	68.20	24.86	500.0	200.0	H	243.0	-4.6
2554.000000	45.83	---	68.20	22.37	500.0	200.0	H	243.0	-2.2
2812.125000	---	35.06	54.00	18.94	500.0	100.0	V	87.0	-1.3
3386.125000	48.99	---	68.20	19.21	500.0	100.0	H	61.0	0.8
3986.375000	---	38.54	54.00	15.46	500.0	200.0	H	159.0	2.9
5413.500000	---	39.52	54.00	14.48	500.0	200.0	V	60.0	5.7
5477.375000	51.35	---	68.20	16.85	500.0	200.0	H	310.0	6.1
7551.125000	---	40.65	54.00	13.35	500.0	200.0	V	184.0	7.4
7958.875000	52.52	---	68.20	15.68	500.0	100.0	H	3.0	8.3

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

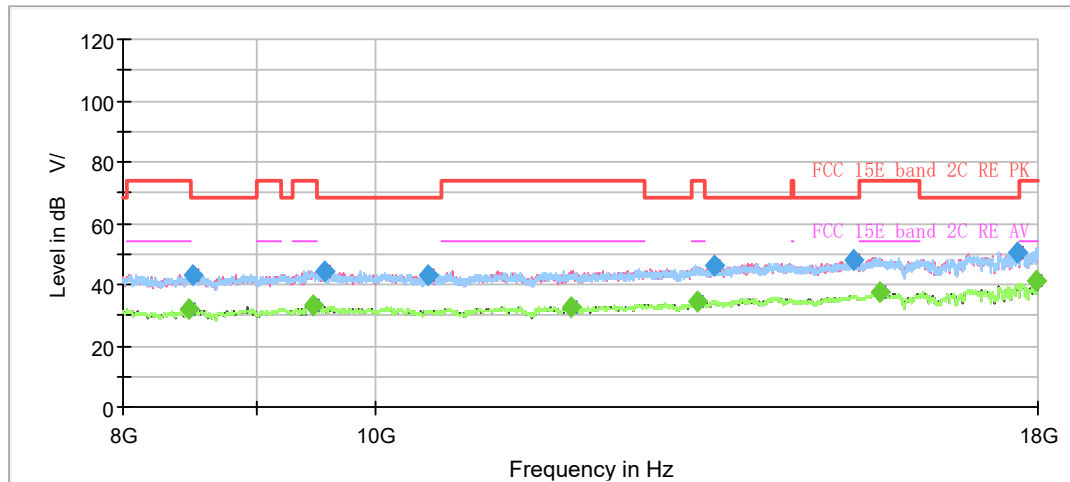
2. Margin = Limit - MAX Peak/ Average

802.11a CH100



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

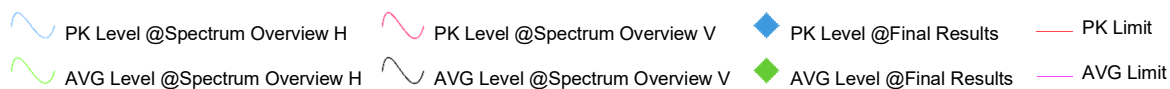
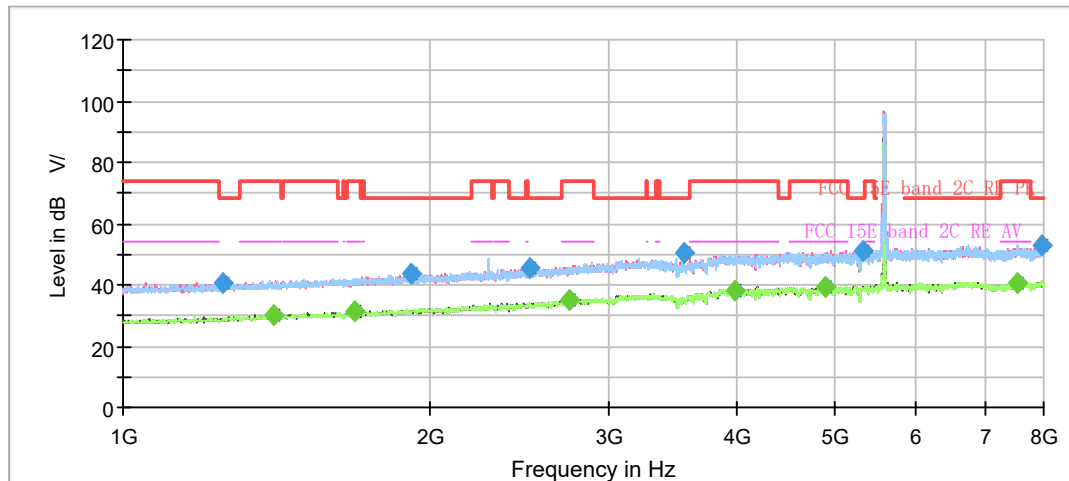
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1298.375000	40.40	---	68.20	27.80	500.0	100.0	V	339.0	-8.0
1403.375000	---	30.18	54.00	23.82	500.0	100.0	V	29.0	-7.5
1715.750000	53.89	---	68.20	14.31	500.0	100.0	V	0.0	-5.8
1721.000000	---	30.79	54.00	23.21	500.0	200.0	V	349.0	-5.8
2466.500000	46.02	---	68.20	22.18	500.0	200.0	H	347.0	-2.6
2816.500000	---	34.93	54.00	19.07	500.0	100.0	V	48.0	-1.3
3380.000000	49.15	---	68.20	19.05	500.0	200.0	H	253.0	0.8
3986.375000	---	38.40	54.00	15.60	500.0	200.0	H	82.0	2.9
5055.625000	---	39.20	54.00	14.80	500.0	200.0	H	52.0	5.2
5235.000000	50.72	---	68.20	17.48	500.0	200.0	H	1.0	5.4
7533.625000	---	41.05	54.00	12.95	500.0	100.0	V	117.0	7.4
7961.500000	52.55	---	68.20	15.65	500.0	100.0	V	211.0	8.3

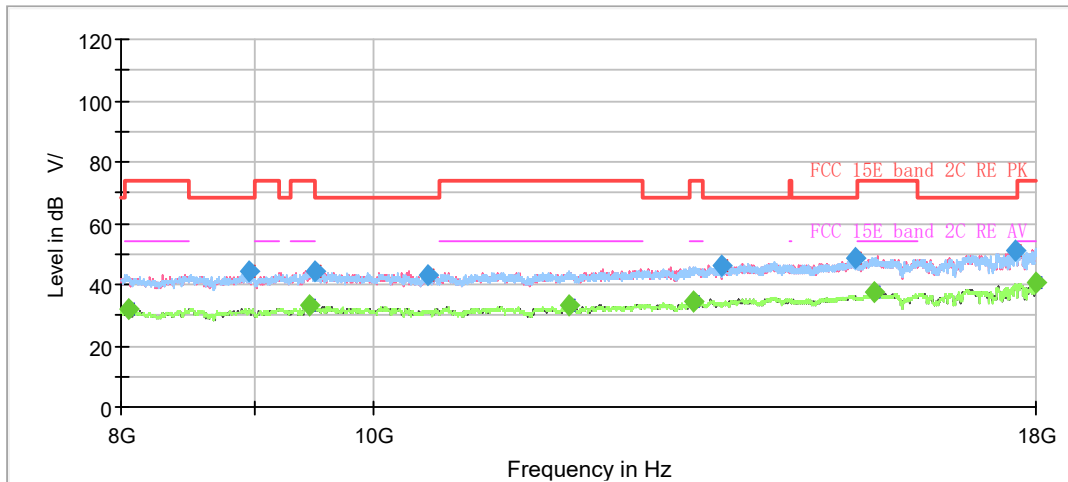
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

802.11a CH116



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

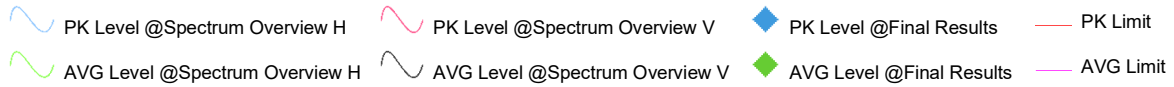
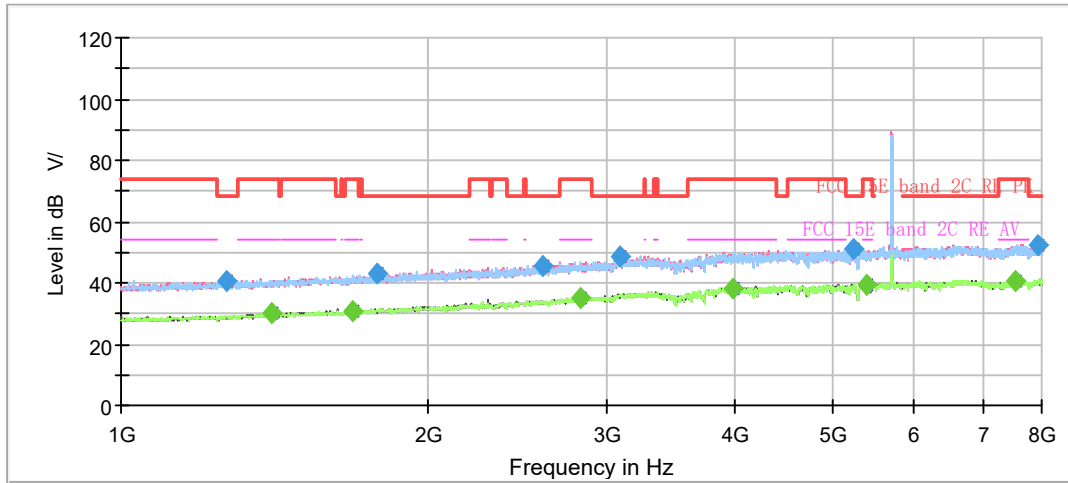
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1250.250000	40.67	---	68.20	27.53	500.0	200.0	H	221.0	-8.3
1403.375000	---	30.11	54.00	23.89	500.0	200.0	V	247.0	-7.5
1689.500000	---	31.14	54.00	22.86	500.0	200.0	V	120.0	-5.9
1914.375000	43.94	---	68.20	24.26	500.0	100.0	V	328.0	-4.9
2502.375000	45.64	---	68.20	22.56	500.0	100.0	V	132.0	-2.4
2743.000000	---	35.15	54.00	18.85	500.0	100.0	H	183.0	-1.6
3557.625000	50.56	---	68.20	17.64	500.0	200.0	H	123.0	1.4
3986.375000	---	38.36	54.00	15.64	500.0	100.0	H	15.0	2.9
4890.250000	---	39.43	54.00	14.57	500.0	200.0	H	237.0	4.8
5311.125000	50.99	---	68.20	17.21	500.0	200.0	H	284.0	5.5
7547.625000	---	40.68	54.00	13.32	500.0	100.0	H	241.0	7.4
7970.250000	52.81	---	68.20	15.39	500.0	200.0	V	208.0	8.4
17986.250000	---	40.76	54.00	13.24	500.0	100.0	V	304.0	11.0

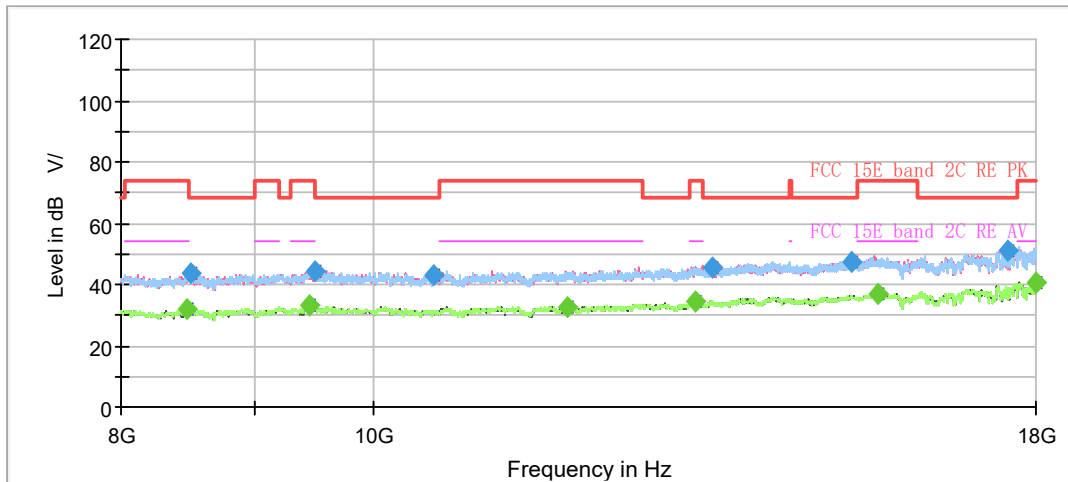
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH140



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

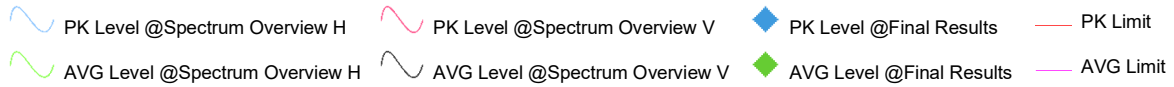
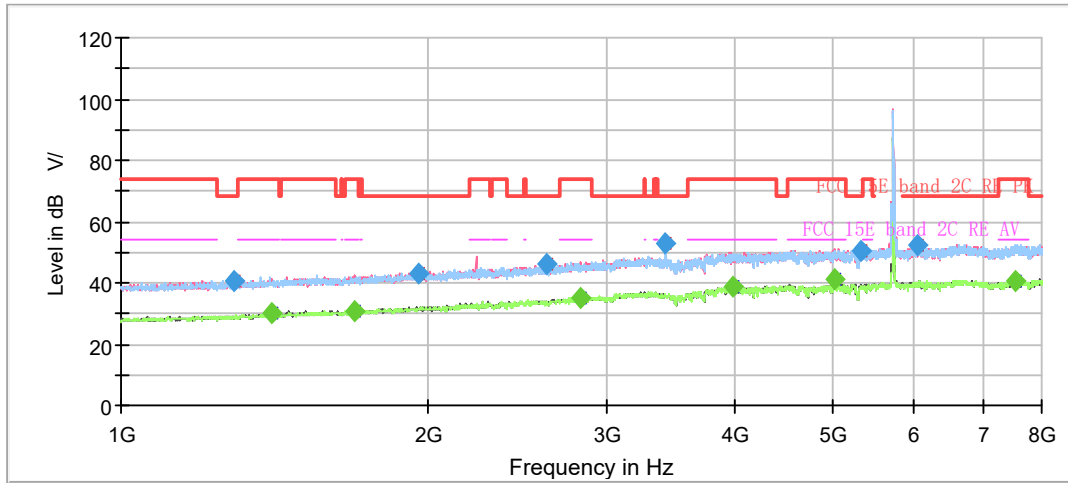
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1267.750000	40.54	---	68.20	27.66	500.0	200.0	H	319.0	-8.2
1403.375000	---	30.13	54.00	23.87	500.0	100.0	V	162.0	-7.5
1687.750000	---	30.98	54.00	23.03	500.0	100.0	H	265.0	-5.9
1786.625000	43.01	---	68.20	25.19	500.0	100.0	H	141.0	-5.4
2596.000000	45.67	---	68.20	22.53	500.0	200.0	H	133.0	-2.2
2820.000000	---	35.03	54.00	18.97	500.0	100.0	V	274.0	-1.3
3091.250000	48.83	---	68.20	19.37	500.0	200.0	H	123.0	-0.2
3987.250000	---	38.35	54.00	15.65	500.0	200.0	V	344.0	2.9
5227.125000	50.96	---	68.20	17.24	500.0	100.0	V	310.0	5.4
5397.750000	---	39.27	54.00	14.73	500.0	200.0	V	55.0	5.7
7533.625000	---	40.75	54.00	13.25	500.0	100.0	V	285.0	7.4
7947.500000	52.29	---	68.20	15.91	500.0	200.0	V	248.0	8.3

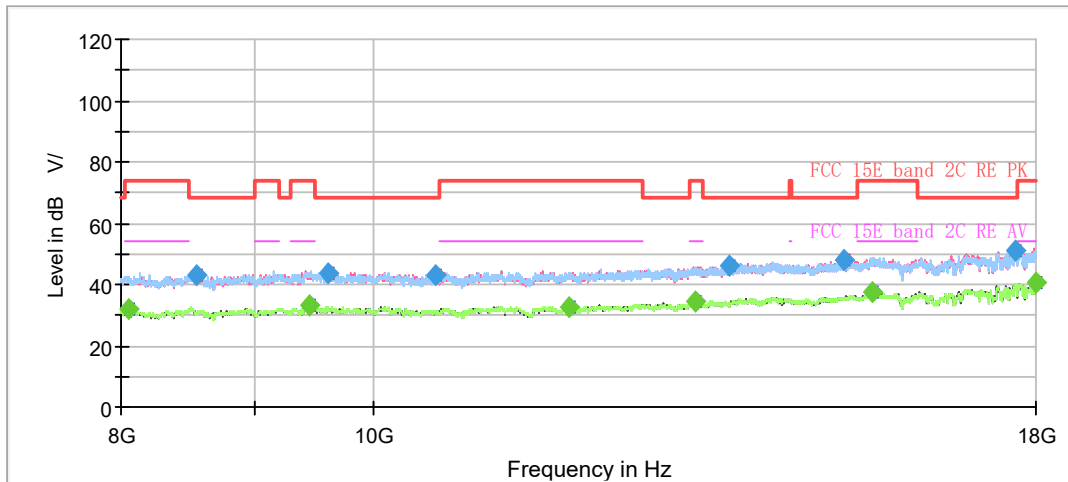
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH144



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

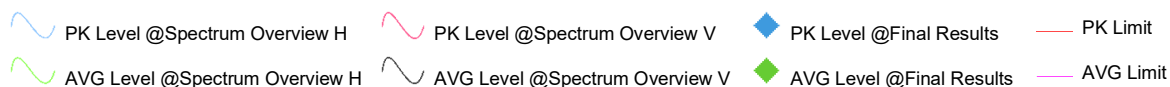
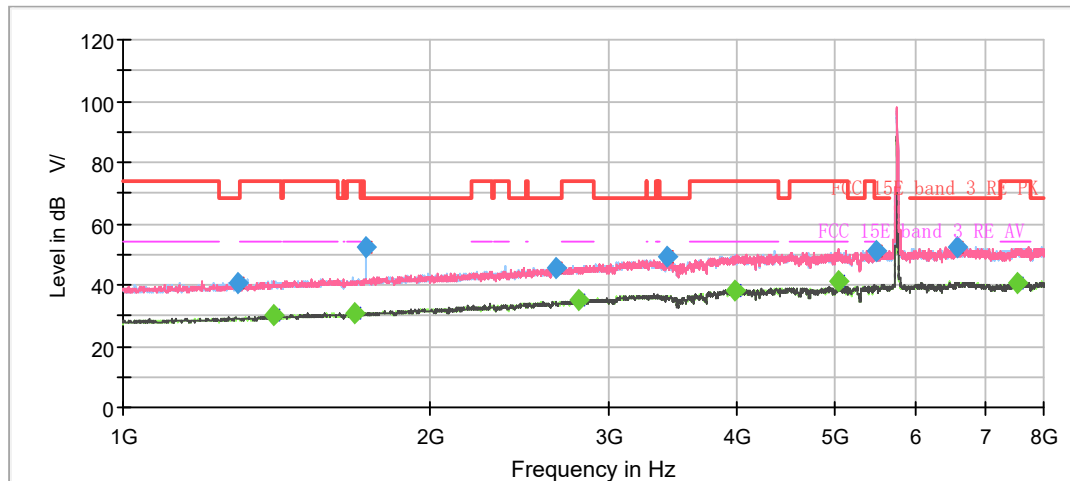
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1292.250000	40.48	---	68.20	27.72	500.0	100.0	H	89.0	-8.1
1403.375000	---	30.25	54.00	23.75	500.0	100.0	V	167.0	-7.5
1693.000000	---	30.92	54.00	23.08	500.0	200.0	V	136.0	-5.9
1956.375000	43.19	---	68.20	25.01	500.0	100.0	H	40.0	-4.6
2609.125000	45.87	---	68.20	22.33	500.0	200.0	V	150.0	-2.1
2820.000000	---	35.27	54.00	18.73	500.0	100.0	H	99.0	-1.3
3424.625000	52.72	---	68.20	15.48	500.0	200.0	H	101.0	1.0
3990.750000	---	38.57	54.00	15.43	500.0	200.0	H	266.0	2.9
5011.875000	---	41.08	54.00	12.92	500.0	100.0	V	86.0	4.7
5321.625000	50.68	---	68.20	17.52	500.0	200.0	V	70.0	5.6
6030.375000	52.54	---	68.20	15.66	500.0	100.0	V	172.0	6.3
7549.375000	---	40.61	54.00	13.39	500.0	100.0	V	285.0	7.4

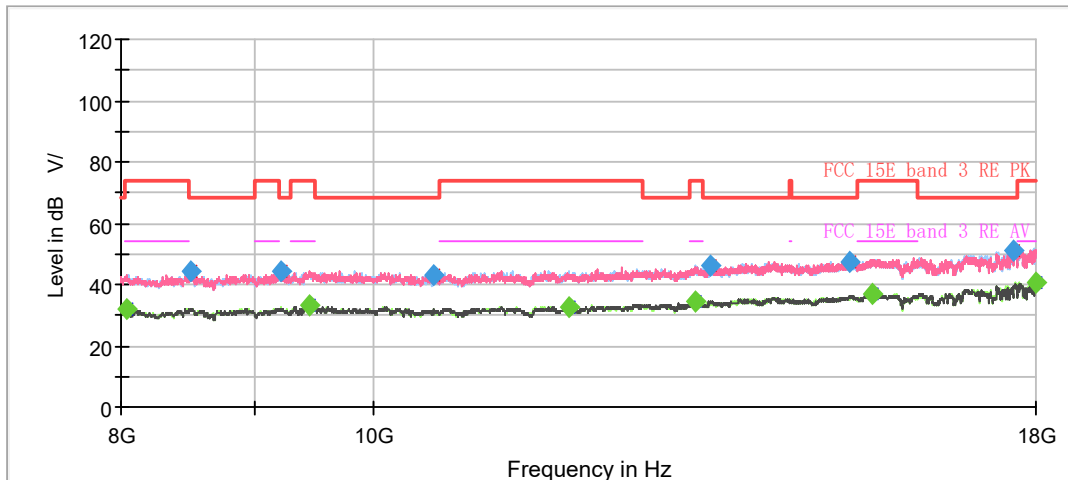
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

802.11a CH149



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

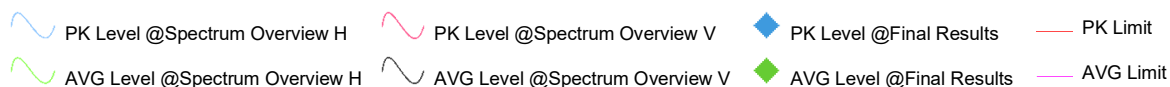
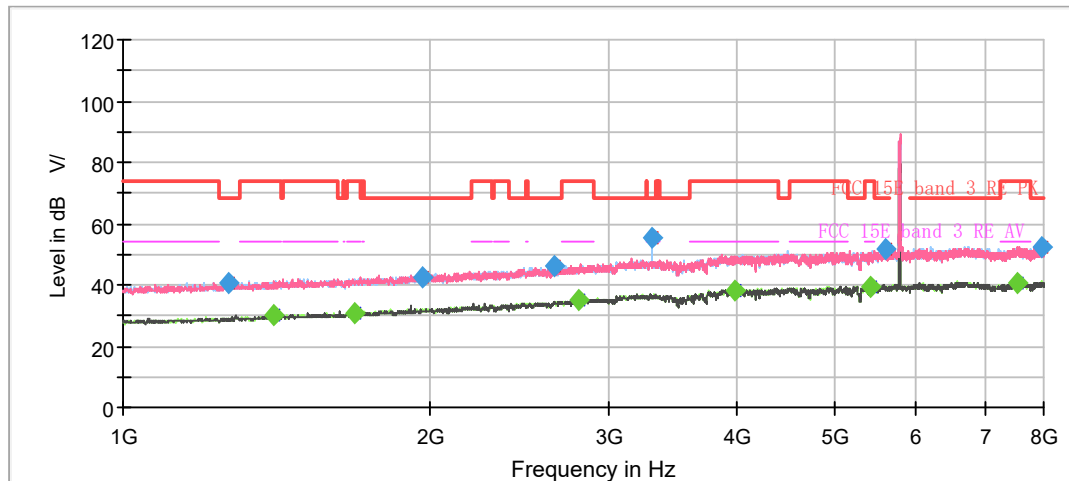
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1294.875000	40.66	---	68.20	27.54	500.0	100.0	V	23.0	-8.1
1403.375000	---	30.01	54.00	23.99	500.0	100.0	V	27.0	-7.5
1689.500000	---	30.91	54.00	23.09	500.0	200.0	V	217.0	-5.9
1728.000000	52.09	---	68.20	16.11	500.0	100.0	H	319.0	-5.7
2659.000000	45.62	---	68.20	22.58	500.0	100.0	H	344.0	-1.9
2799.000000	---	34.92	54.00	19.08	500.0	100.0	H	334.0	-1.4
3410.625000	49.23	---	68.20	18.97	500.0	100.0	H	198.0	1.0
3988.125000	---	38.35	54.00	15.65	500.0	200.0	H	266.0	2.9
5024.125000	---	41.25	54.00	12.75	500.0	100.0	V	86.0	4.8
5490.500000	51.28	---	68.20	16.92	500.0	200.0	V	261.0	6.2
6568.500000	52.21	---	68.20	15.99	500.0	100.0	V	153.0	6.5
7546.750000	---	40.88	54.00	13.12	500.0	200.0	H	77.0	7.4

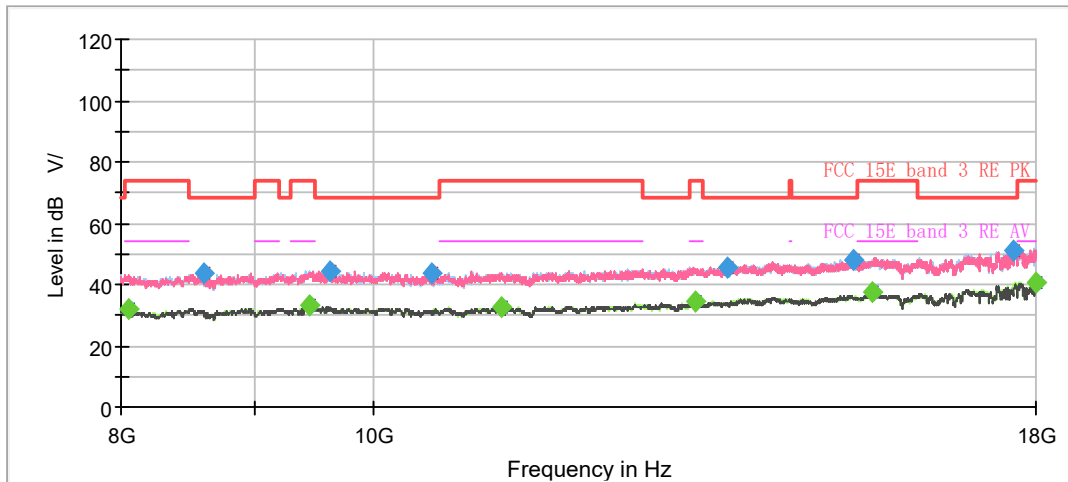
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH157



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

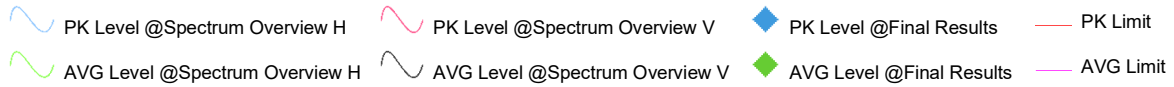
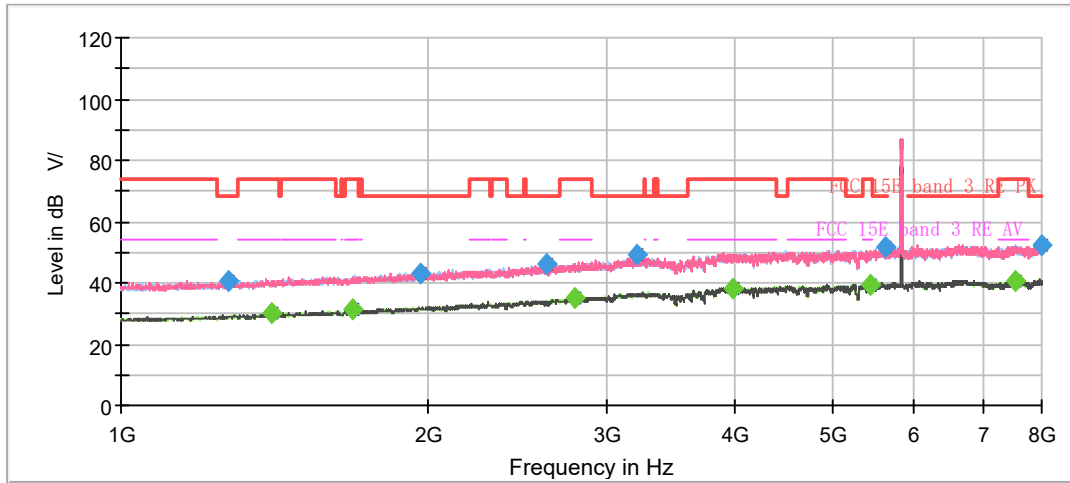
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1268.625000	40.91	---	68.20	27.29	500.0	200.0	V	299.0	-8.2
1403.375000	---	29.86	54.00	24.14	500.0	200.0	V	66.0	-7.5
1689.500000	---	30.87	54.00	23.13	500.0	200.0	V	216.0	-5.9
1966.000000	42.75	---	68.20	25.45	500.0	100.0	H	281.0	-4.6
2647.625000	45.88	---	68.20	22.32	500.0	100.0	V	110.0	-1.9
2793.750000	---	35.02	54.00	18.98	500.0	100.0	V	92.0	-1.4
3298.625000	55.21	---	68.20	12.99	500.0	100.0	H	19.0	0.6
3983.750000	---	38.44	54.00	15.56	500.0	100.0	V	53.0	2.8
5416.125000	---	39.36	54.00	14.64	500.0	100.0	H	102.0	5.7
5600.750000	51.54	---	68.20	16.66	500.0	100.0	H	262.0	6.2
7534.500000	---	40.68	54.00	13.32	500.0	100.0	V	22.0	7.4
7962.375000	52.50	---	68.20	15.70	500.0	200.0	V	339.0	8.3

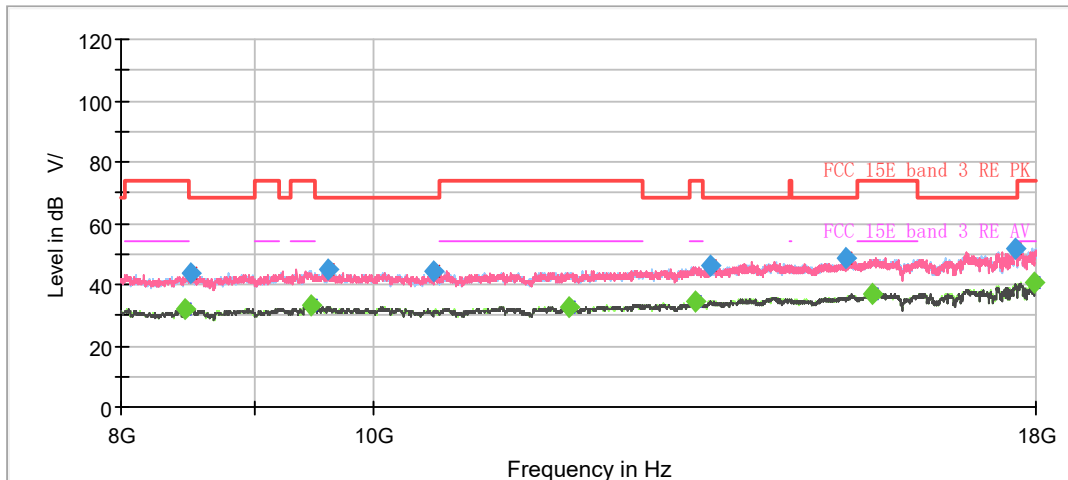
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH165



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

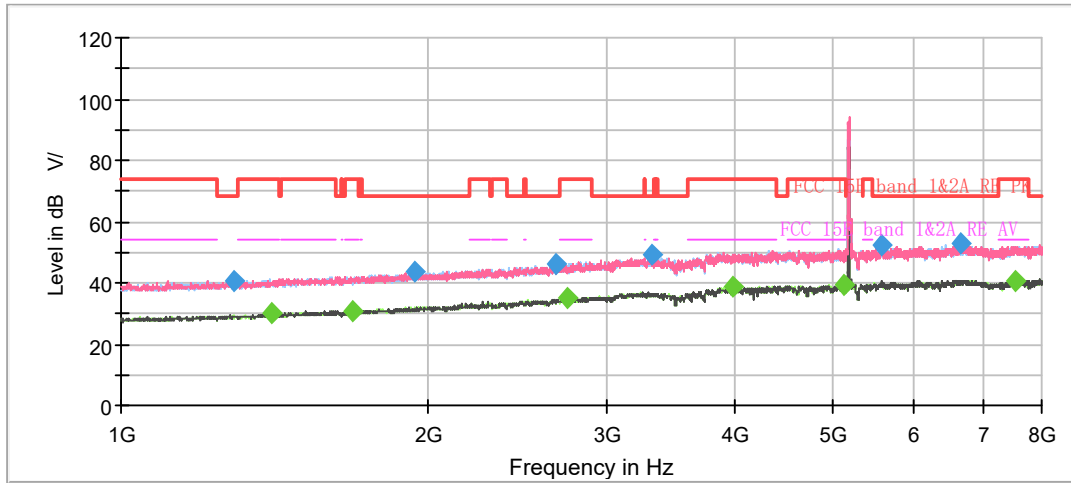
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1272.125000	40.60	---	68.20	27.60	500.0	200.0	V	354.0	-8.2
1403.375000	---	30.17	54.00	23.83	500.0	200.0	V	69.0	-7.5
1689.500000	---	31.13	54.00	22.87	500.0	200.0	V	253.0	-5.9
1969.500000	43.21	---	68.20	24.99	500.0	100.0	H	234.0	-4.6
2617.000000	46.10	---	68.20	22.10	500.0	100.0	H	163.0	-2.1
2783.250000	---	35.03	54.00	18.97	500.0	100.0	H	278.0	-1.5
3203.250000	49.13	---	68.20	19.07	500.0	200.0	H	280.0	0.0
3988.125000	---	38.38	54.00	15.62	500.0	200.0	H	329.0	2.9
5424.875000	---	39.26	54.00	14.74	500.0	200.0	H	148.0	5.8
5629.625000	51.46	---	68.20	16.74	500.0	200.0	H	66.0	6.1
7531.000000	---	40.60	54.00	13.40	500.0	100.0	V	210.0	7.4
7985.125000	52.42	---	68.20	15.78	500.0	100.0	H	133.0	8.4

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

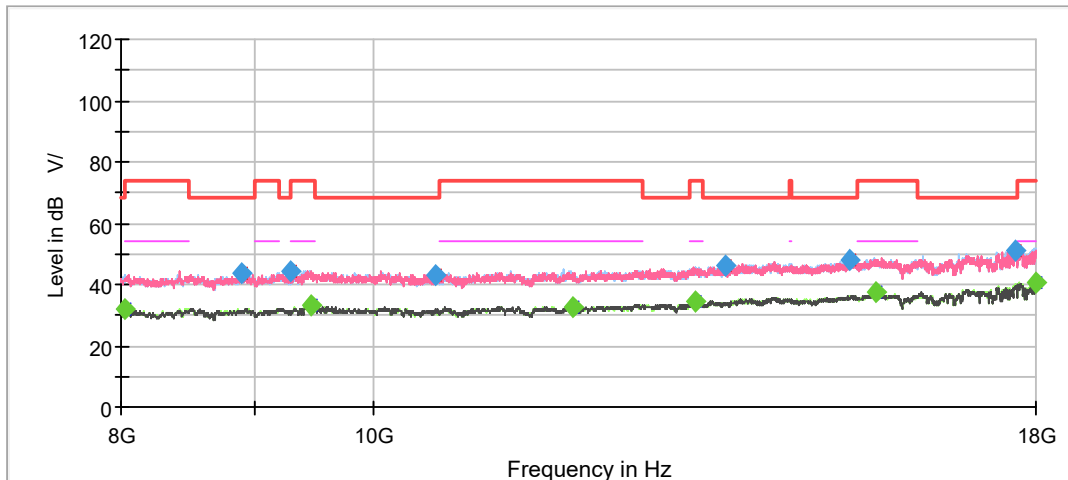
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH36



~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



— PK Level @Spectrum Overview H — PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
— AVG Level @Spectrum Overview H — AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

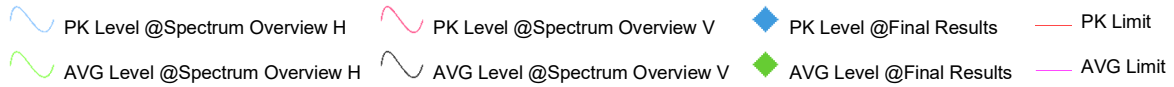
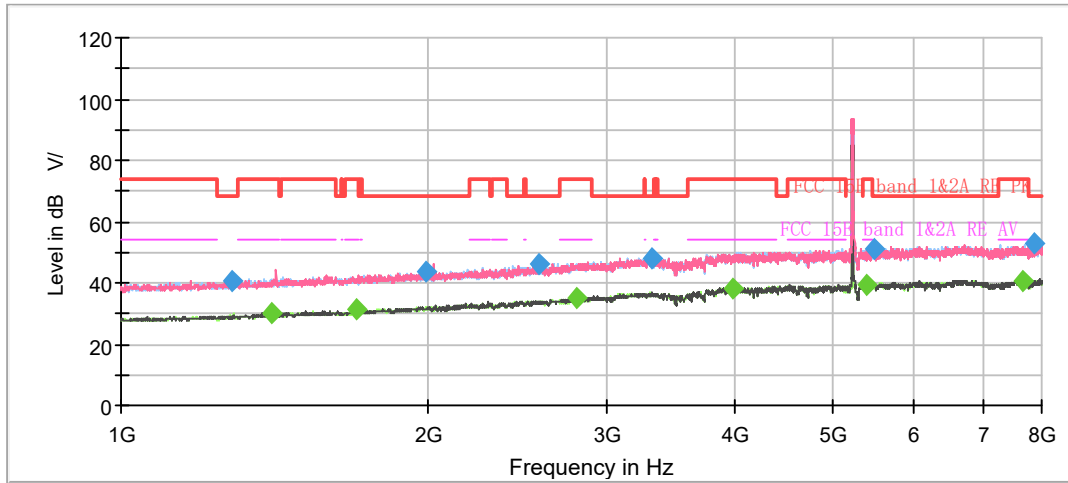
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1288.750000	40.68	---	68.20	27.52	500.0	200.0	H	344.0	-8.1
1403.375000	---	30.07	54.00	23.93	500.0	100.0	V	49.0	-7.5
1689.500000	---	30.93	54.00	23.07	500.0	200.0	V	227.0	-5.9
1942.375000	43.49	---	68.20	24.71	500.0	200.0	V	355.0	-4.7
2665.125000	45.85	---	68.20	22.35	500.0	200.0	V	151.0	-1.9
2744.750000	---	34.92	54.00	19.08	500.0	100.0	H	153.0	-1.6
3317.875000	49.11	---	68.20	19.09	500.0	200.0	V	266.0	0.7
3989.875000	---	38.47	54.00	15.53	500.0	100.0	V	89.0	2.9
5126.500000	---	39.34	54.00	14.66	500.0	200.0	V	355.0	5.2
5576.250000	52.10	---	68.20	16.10	500.0	100.0	V	64.0	6.2
6650.750000	53.00	---	68.20	15.20	500.0	100.0	H	196.0	6.6
7531.875000	---	40.77	54.00	13.23	500.0	200.0	H	185.0	7.4

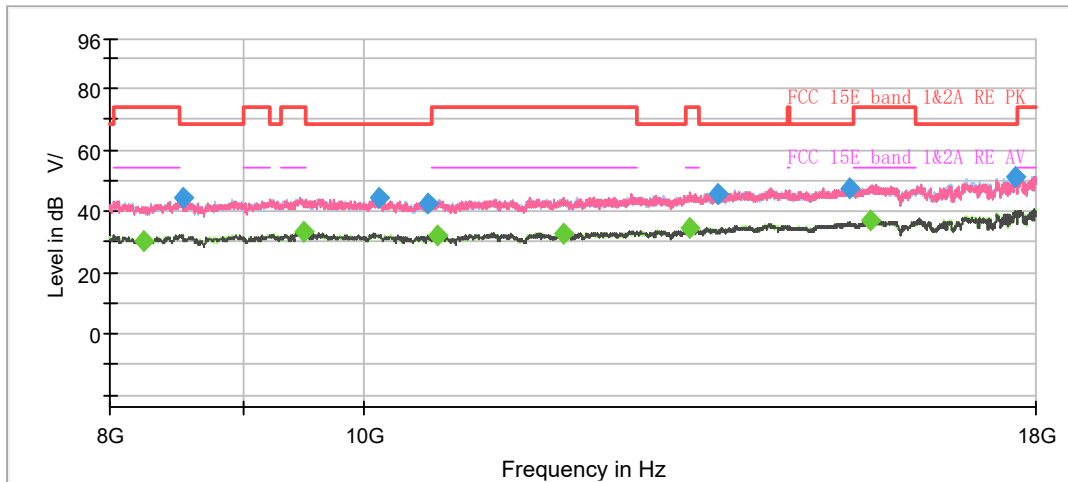
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH44



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

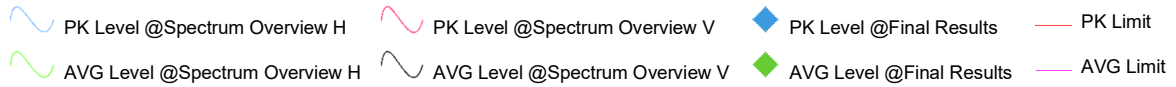
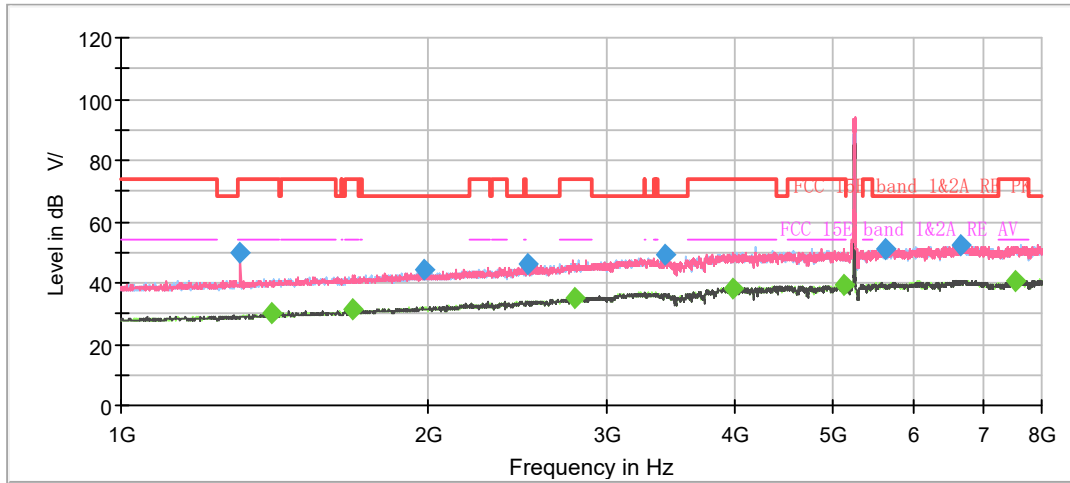
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1282.625000	40.47	---	68.20	27.73	500.0	100.0	V	121.0	-8.1
1403.375000	---	30.02	54.00	23.98	500.0	200.0	V	300.0	-7.5
1699.125000	---	31.43	54.00	22.57	500.0	200.0	H	149.0	-5.9
1990.500000	43.56	---	68.20	24.64	500.0	100.0	V	4.0	-4.5
2568.875000	46.23	---	68.20	21.97	500.0	200.0	H	133.0	-2.2
2793.750000	---	34.95	54.00	19.05	500.0	200.0	H	57.0	-1.4
3320.500000	48.29	---	68.20	19.91	500.0	200.0	V	353.0	0.7
3986.375000	---	38.35	54.00	15.65	500.0	200.0	V	144.0	2.9
5393.375000	---	39.29	54.00	14.71	500.0	100.0	H	223.0	5.7
5488.750000	51.25	---	68.20	16.95	500.0	200.0	V	114.0	6.2
7658.750000	---	40.75	54.00	13.25	500.0	200.0	V	300.0	7.7
7862.625000	52.93	---	68.20	15.27	500.0	100.0	V	96.0	8.1

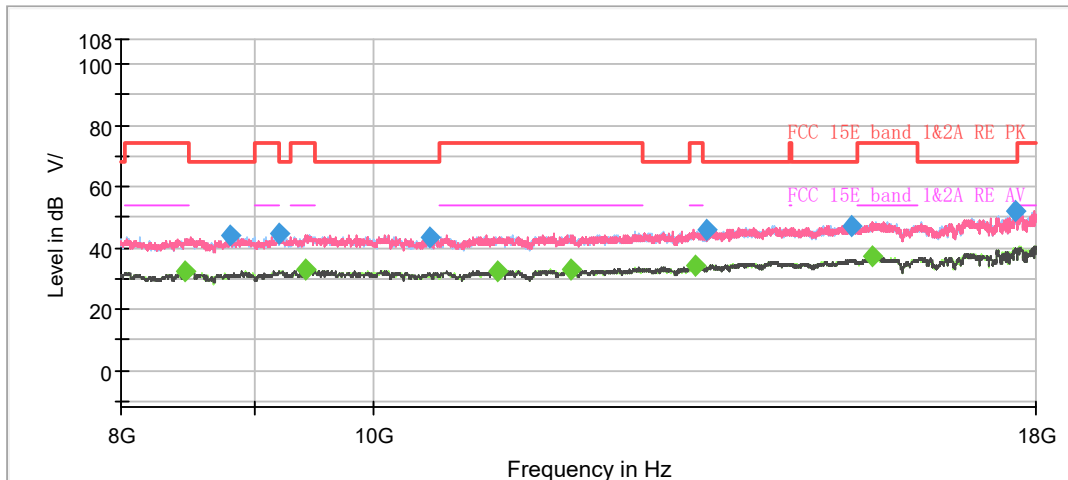
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH48



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

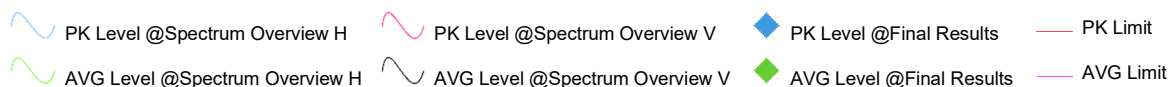
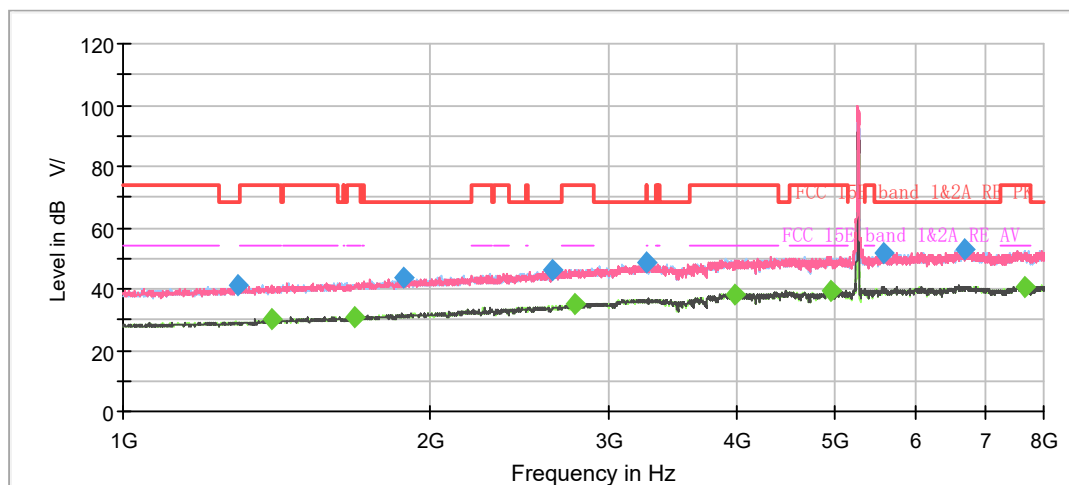
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1309.750000	49.65	---	74.00	24.35	500.0	200.0	V	119.0	-8.0
1403.375000	---	29.89	54.00	24.11	500.0	200.0	V	348.0	-7.5
1689.500000	---	31.13	54.00	22.87	500.0	200.0	V	251.0	-5.9
1979.125000	44.03	---	68.20	24.17	500.0	200.0	V	133.0	-4.6
2501.500000	46.13	---	68.20	22.07	500.0	200.0	V	271.0	-2.4
2781.500000	---	34.85	54.00	19.15	500.0	200.0	V	200.0	-1.5
3415.000000	48.93	---	68.20	19.27	500.0	200.0	H	226.0	1.0
3988.125000	---	38.34	54.00	15.66	500.0	100.0	V	311.0	2.9
5123.875000	---	39.50	54.00	14.50	500.0	100.0	V	45.0	5.2
5611.250000	51.01	---	68.20	17.19	500.0	200.0	V	323.0	6.2
6664.750000	52.33	---	68.20	15.87	500.0	100.0	V	234.0	6.6
7535.375000	---	40.53	54.00	13.47	500.0	200.0	H	344.0	7.4

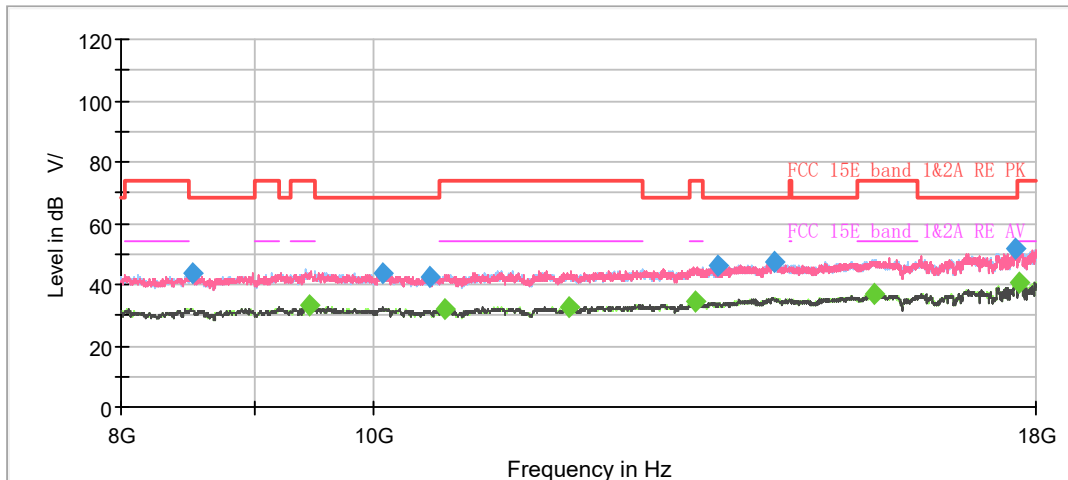
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH52



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

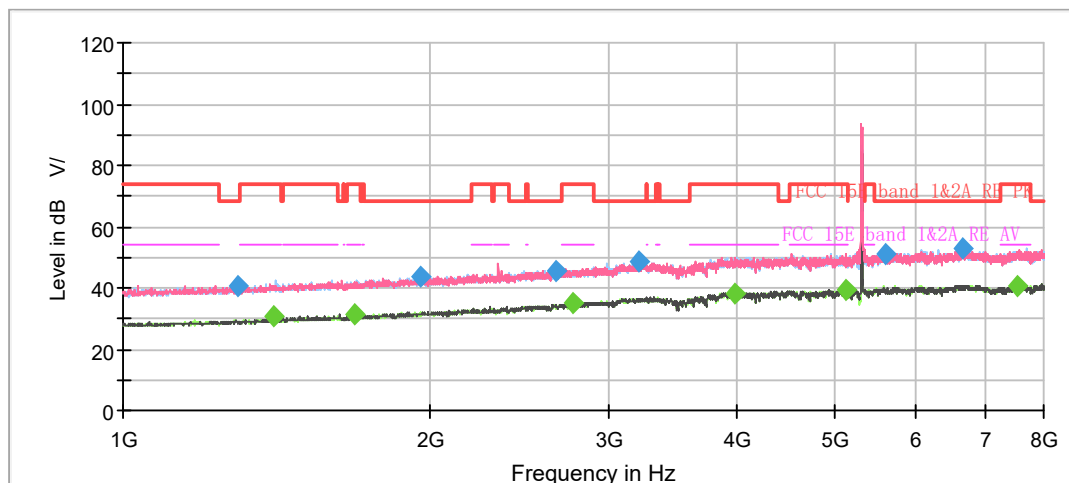
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1297.500000	41.07	---	68.20	27.13	500.0	200.0	V	229.0	-8.0
1396.375000	---	30.02	54.00	23.98	500.0	100.0	V	214.0	-7.5
1689.500000	---	30.99	54.00	23.01	500.0	200.0	V	229.0	-5.9
1882.000000	43.47	---	68.20	24.73	500.0	100.0	V	0.0	-5.0
2638.875000	46.20	---	68.20	22.00	500.0	200.0	V	161.0	-2.0
2769.250000	---	35.16	54.00	18.84	500.0	100.0	V	0.0	-1.5
3256.625000	48.72	---	68.20	19.48	500.0	200.0	H	5.0	0.3
3987.250000	---	38.29	54.00	15.71	500.0	200.0	H	41.0	2.9
4942.750000	---	39.47	54.00	14.53	500.0	200.0	H	66.0	5.1
5571.875000	51.43	---	68.20	16.77	500.0	100.0	V	344.0	6.2
6693.625000	52.84	---	68.20	15.36	500.0	200.0	H	26.0	6.6
7652.625000	---	40.61	54.00	13.39	500.0	100.0	H	177.0	7.7

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

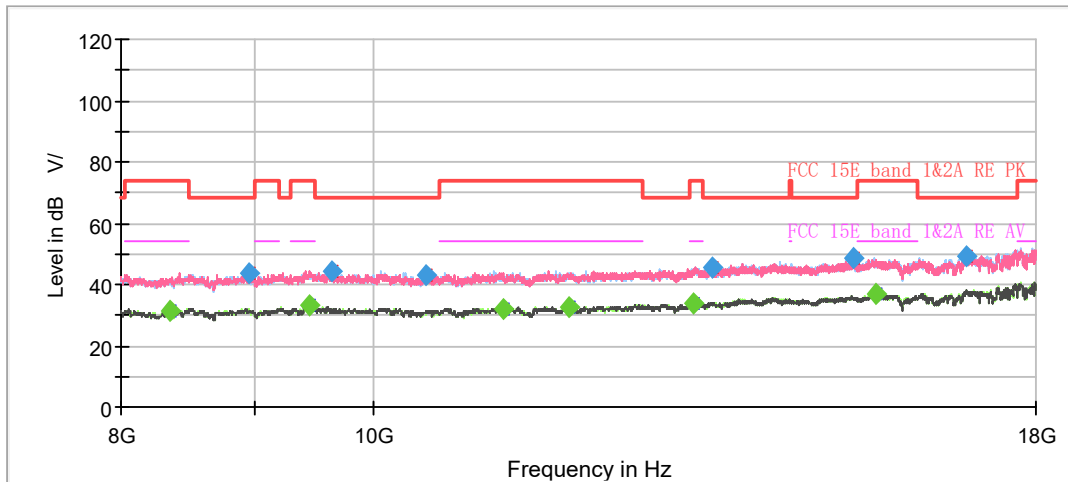
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH60



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
— AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

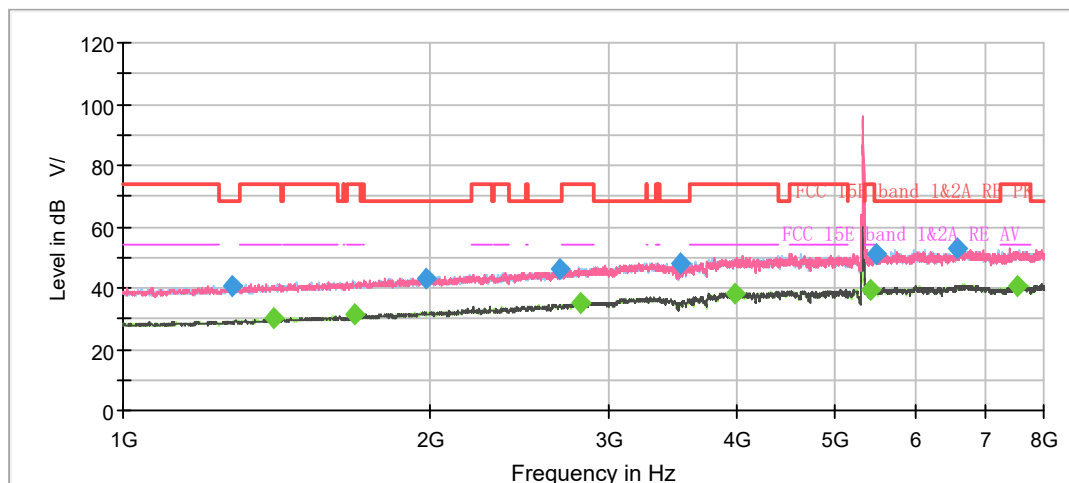
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1294.875000	40.51	---	68.20	27.69	500.0	200.0	H	147.0	-8.1
1403.375000	---	30.85	54.00	23.15	500.0	200.0	V	0.0	-7.5
1689.500000	---	31.49	54.00	22.51	500.0	200.0	V	352.0	-5.9
1961.625000	43.68	---	68.20	24.52	500.0	200.0	V	187.0	-4.6
2664.250000	45.78	---	68.20	22.42	500.0	100.0	V	130.0	-1.9
2768.375000	---	35.12	54.00	18.88	500.0	100.0	H	244.0	-1.5
3204.125000	48.64	---	68.20	19.56	500.0	100.0	V	0.0	0.0
3982.000000	---	38.32	54.00	15.68	500.0	200.0	H	49.0	2.8
5121.250000	---	39.29	54.00	14.71	500.0	200.0	H	127.0	5.2
5603.375000	51.20	---	68.20	17.00	500.0	200.0	V	242.0	6.2
6667.375000	53.19	---	68.20	15.01	500.0	100.0	V	87.0	6.6
7552.000000	---	40.61	54.00	13.39	500.0	200.0	V	252.0	7.4

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

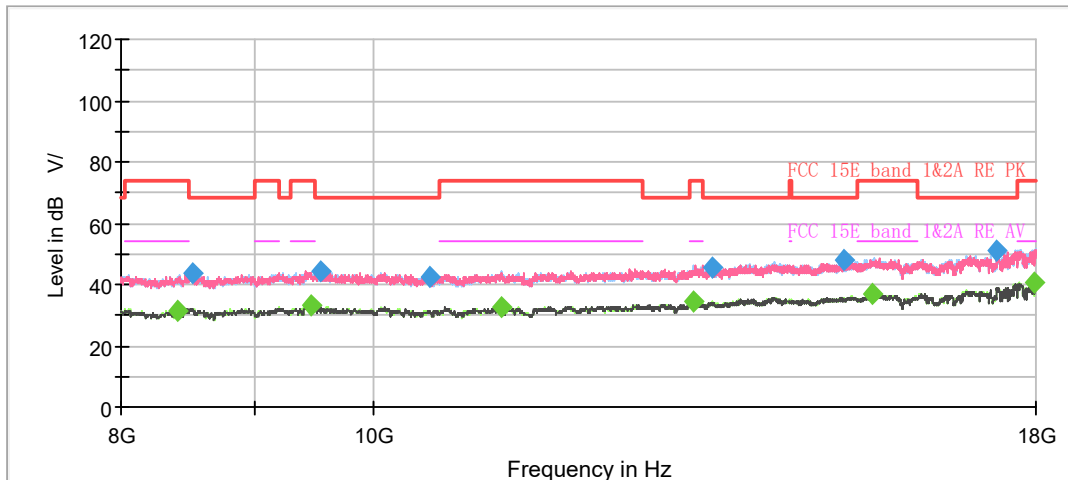
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH64



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

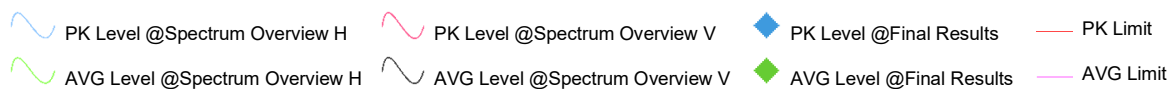
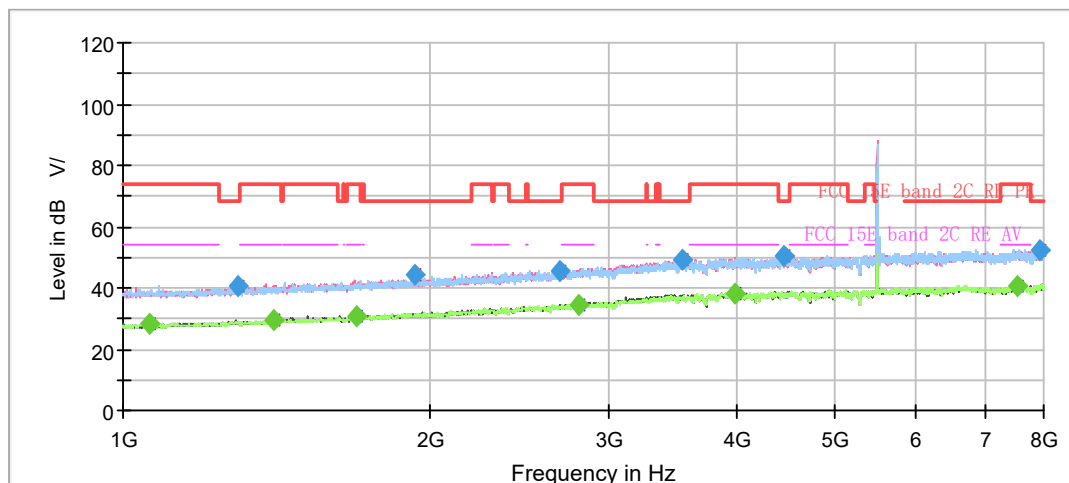
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1277.375000	40.84	---	68.20	27.36	500.0	100.0	V	121.0	-8.2
1403.375000	---	29.92	54.00	24.08	500.0	200.0	V	303.0	-7.5
1689.500000	---	31.15	54.00	22.85	500.0	200.0	V	278.0	-5.9
1979.125000	43.32	---	68.20	24.88	500.0	100.0	H	284.0	-4.6
2676.500000	46.37	---	68.20	21.83	500.0	200.0	H	107.0	-1.9
2813.000000	---	34.77	54.00	19.23	500.0	100.0	H	29.0	-1.3
3520.000000	48.25	---	68.20	19.95	500.0	200.0	V	328.0	1.3
3987.250000	---	38.44	54.00	15.56	500.0	200.0	H	16.0	2.9
5417.875000	---	39.34	54.00	14.66	500.0	100.0	V	193.0	5.8
5487.875000	51.03	---	68.20	17.17	500.0	200.0	V	273.0	6.2
6578.125000	52.66	---	68.20	15.54	500.0	200.0	H	262.0	6.5
7538.875000	---	40.81	54.00	13.19	500.0	200.0	V	218.0	7.4

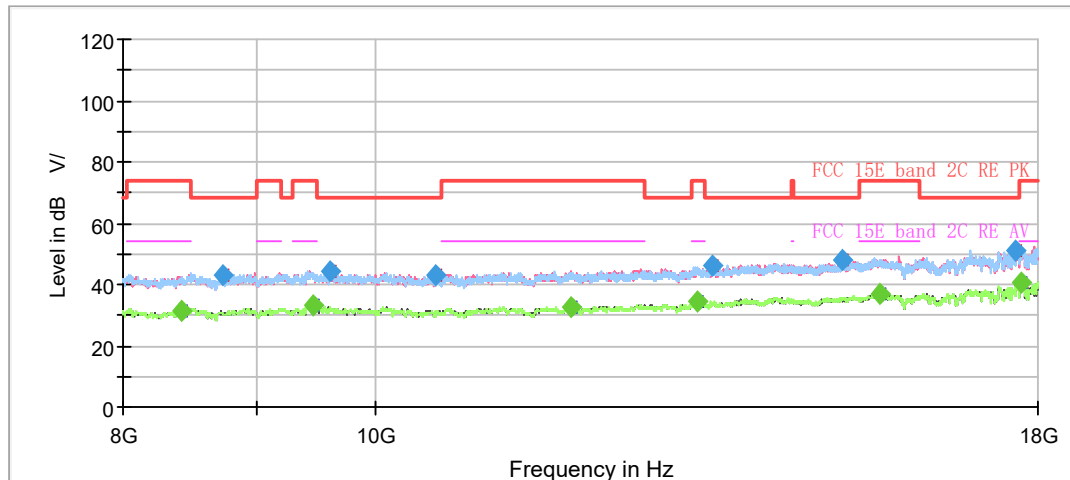
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH100



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

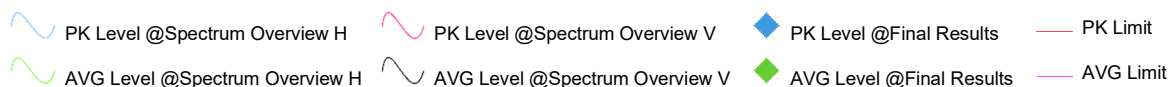
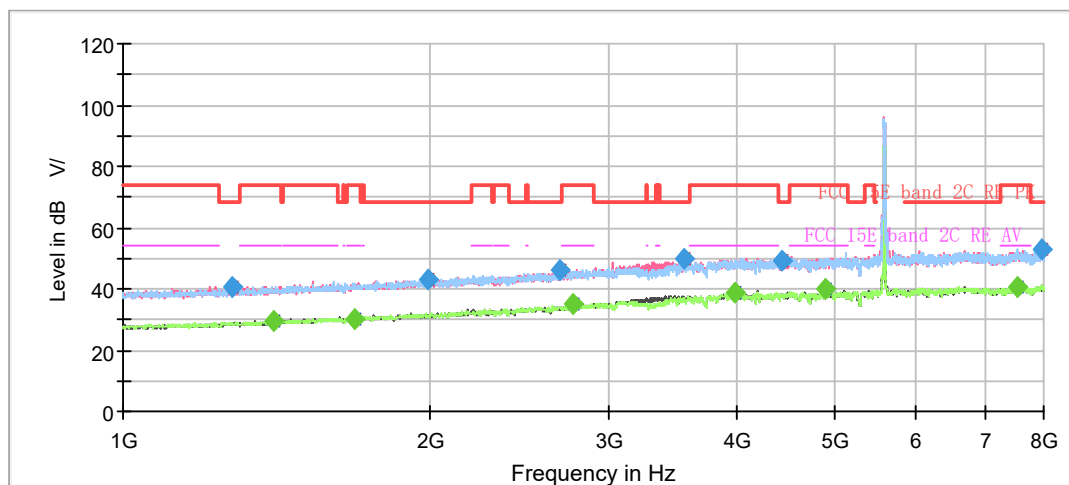
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1059.500000	---	28.51	54.00	25.49	500.0	200.0	V	10.0	-9.6
1296.625000	40.52	---	68.20	27.68	500.0	100.0	H	182.0	-8.1
1403.375000	---	29.83	54.00	24.17	500.0	200.0	V	70.0	-7.5
1693.875000	---	30.82	54.00	23.18	500.0	200.0	V	105.0	-5.9
1932.750000	44.05	---	68.20	24.15	500.0	100.0	V	331.0	-4.8
2682.625000	45.43	---	68.20	22.77	500.0	200.0	H	239.0	-1.9
2801.625000	---	34.74	54.00	19.26	500.0	100.0	H	53.0	-1.4
3539.250000	49.16	---	68.20	19.04	500.0	200.0	H	359.0	1.3
3984.625000	---	38.11	54.00	15.89	500.0	200.0	H	73.0	2.8
4451.875000	50.25	---	68.20	17.95	500.0	100.0	V	302.0	3.9
7534.500000	---	40.83	54.00	13.17	500.0	100.0	V	77.0	7.4
7940.500000	52.46	---	68.20	15.74	500.0	100.0	V	259.0	8.3

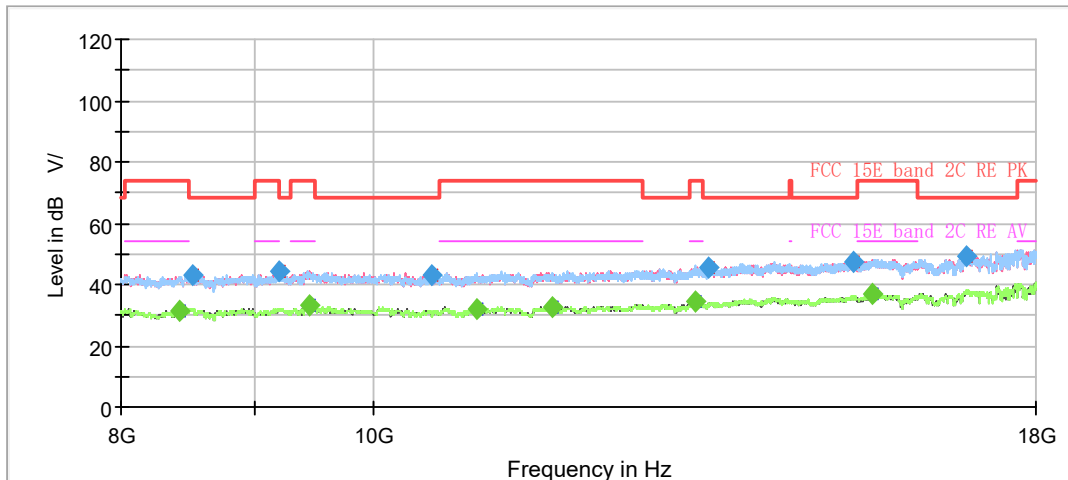
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH116



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

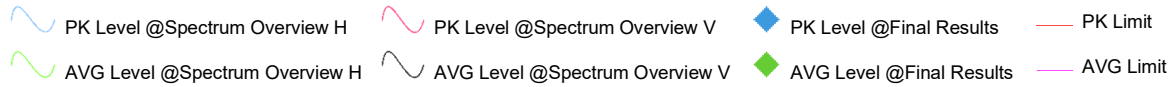
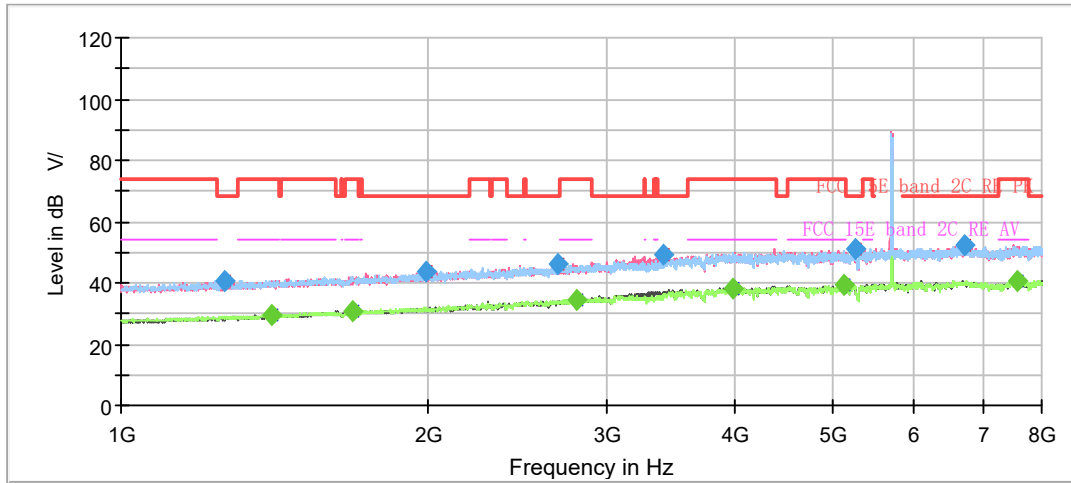
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1279.125000	40.40	---	68.20	27.80	500.0	200.0	H	0.0	-8.1
1403.375000	---	29.75	54.00	24.25	500.0	200.0	V	286.0	-7.5
1689.500000	---	30.46	54.00	23.54	500.0	200.0	H	197.0	-5.9
1989.625000	43.03	---	68.20	25.17	500.0	100.0	V	103.0	-4.5
2683.500000	46.08	---	68.20	22.12	500.0	200.0	V	218.0	-1.8
2765.750000	---	34.87	54.00	19.13	500.0	200.0	H	291.0	-1.5
3547.125000	49.59	---	68.20	18.61	500.0	200.0	V	41.0	1.4
3990.750000	---	38.49	54.00	15.51	500.0	200.0	V	96.0	2.9
4434.375000	49.32	---	68.20	18.88	500.0	100.0	H	290.0	3.9
4889.375000	---	39.80	54.00	14.20	500.0	100.0	V	282.0	4.8
7533.625000	---	40.77	54.00	13.23	500.0	100.0	V	103.0	7.4
7958.000000	52.79	---	68.20	15.41	500.0	100.0	V	62.0	8.3

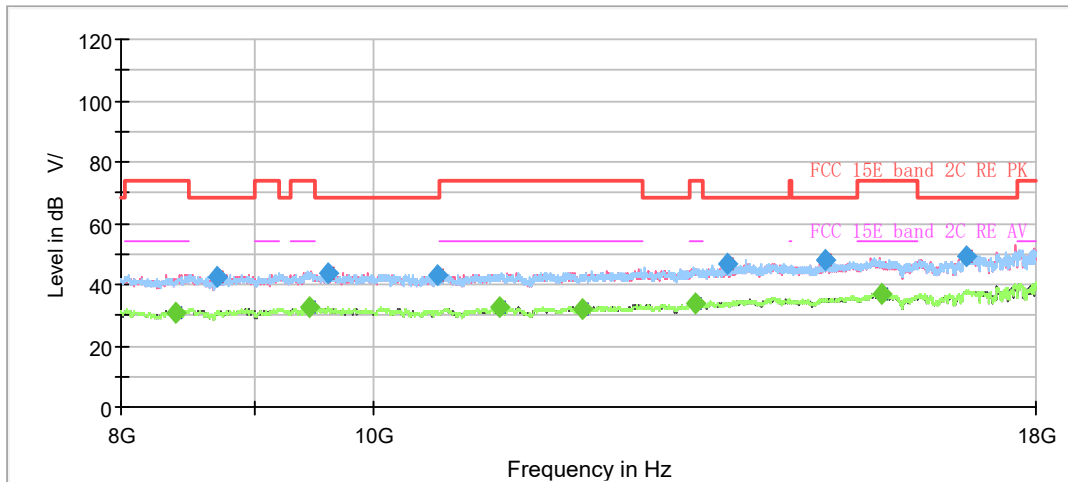
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH140



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

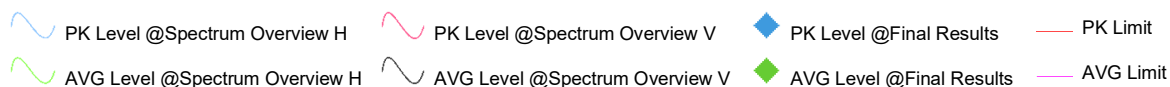
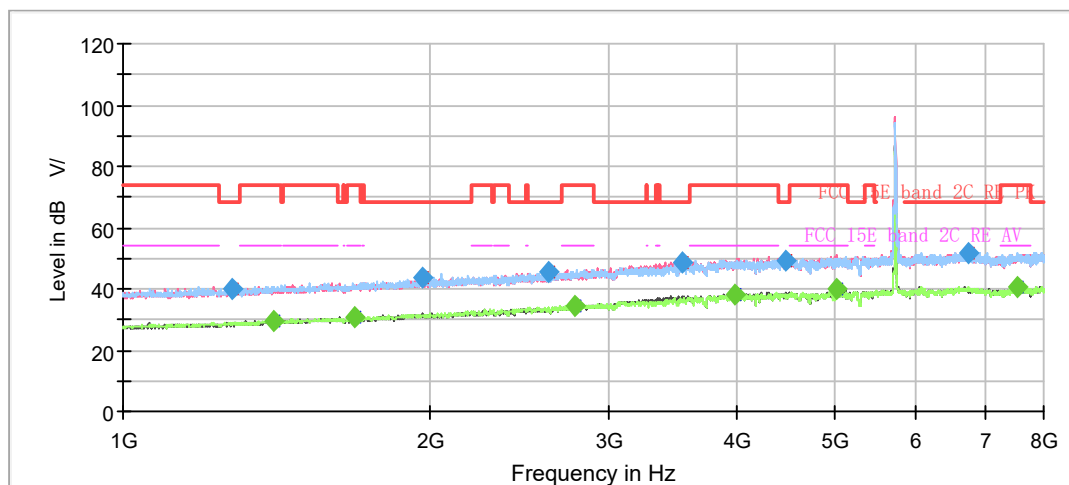
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1263.375000	40.37	---	68.20	27.83	500.0	200.0	H	341.0	-8.2
1403.375000	---	29.79	54.00	24.21	500.0	200.0	V	0.0	-7.5
1689.500000	---	31.05	54.00	22.95	500.0	100.0	V	141.0	-5.9
1990.500000	43.83	---	68.20	24.37	500.0	200.0	H	246.0	-4.5
2680.000000	46.27	---	68.20	21.93	500.0	200.0	H	138.0	-1.9
2801.625000	---	34.66	54.00	19.34	500.0	200.0	V	51.0	-1.4
3409.750000	49.09	---	68.20	19.11	500.0	200.0	V	60.0	1.0
3989.875000	---	38.10	54.00	15.90	500.0	200.0	V	285.0	2.9
5124.750000	---	39.11	54.00	14.89	500.0	200.0	V	296.0	5.2
5243.750000	50.78	---	68.20	17.42	500.0	200.0	V	129.0	5.4
6730.375000	52.37	---	68.20	15.83	500.0	100.0	H	39.0	6.5
7585.250000	---	40.43	54.00	13.57	500.0	100.0	V	65.0	7.4

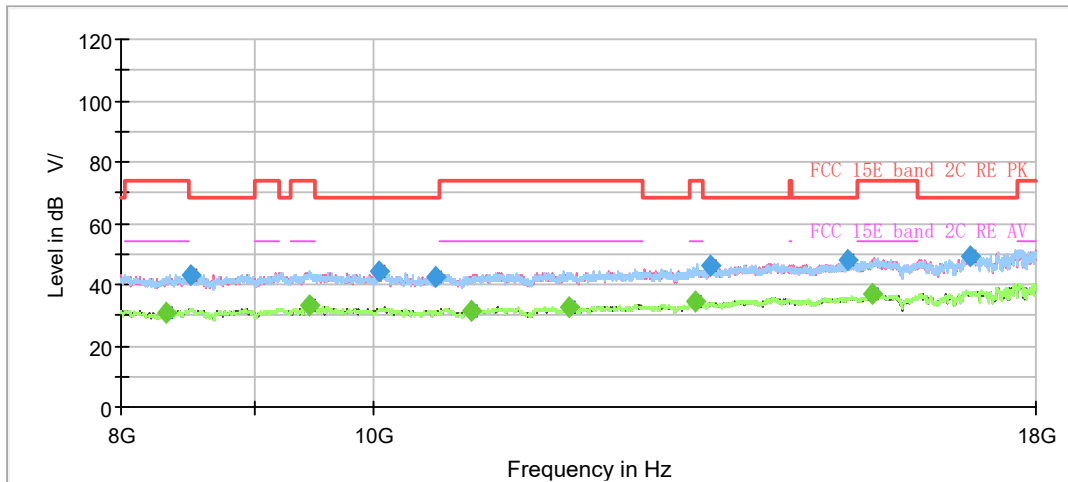
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH144



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

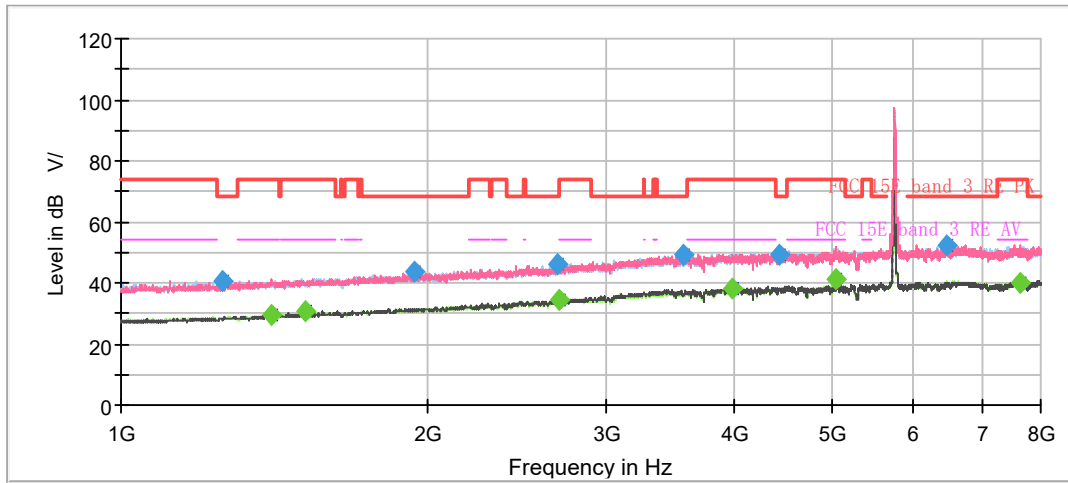
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1278.250000	39.96	---	68.20	28.24	500.0	200.0	V	194.0	-8.2
1403.375000	---	29.60	54.00	24.40	500.0	100.0	V	50.0	-7.5
1689.500000	---	30.79	54.00	23.21	500.0	100.0	V	100.0	-5.9
1962.500000	43.51	---	68.20	24.69	500.0	200.0	V	244.0	-4.6
2616.125000	45.32	---	68.20	22.88	500.0	200.0	H	15.0	-2.1
2779.750000	---	34.56	54.00	19.44	500.0	100.0	V	69.0	-1.5
3538.375000	48.84	---	68.20	19.36	500.0	200.0	V	172.0	1.3
3989.000000	---	38.30	54.00	15.70	500.0	200.0	V	224.0	2.9
4463.250000	49.17	---	68.20	19.03	500.0	100.0	H	269.0	4.1
5004.000000	---	40.28	54.00	13.72	500.0	200.0	V	278.0	4.8
6759.250000	51.85	---	68.20	16.35	500.0	100.0	V	252.0	6.4
7550.250000	---	40.32	54.00	13.68	500.0	200.0	V	42.0	7.4

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

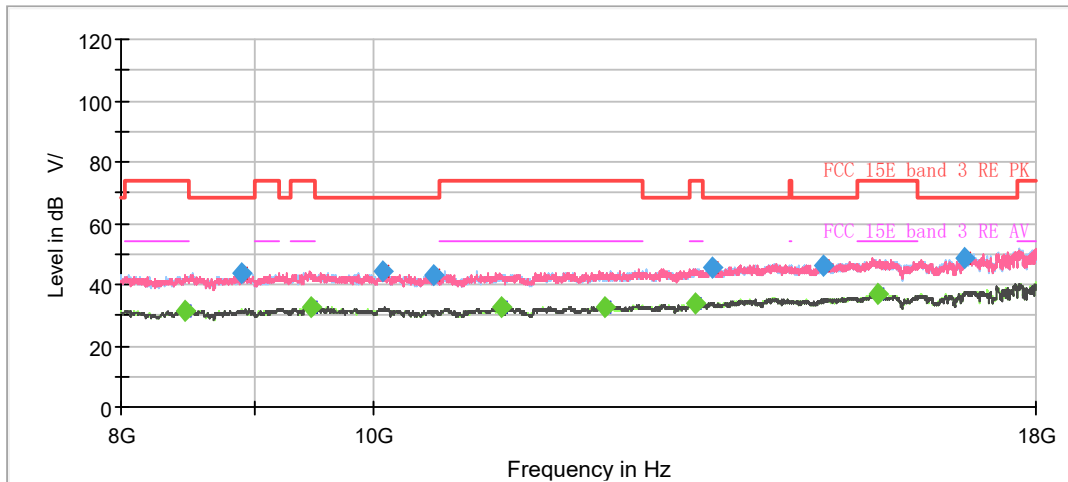
2. Margin = Limit - MAX Peak/ Average

802.11n (HT20) CH149



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

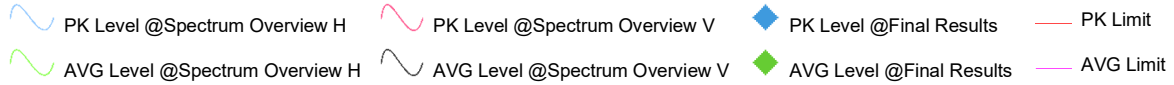
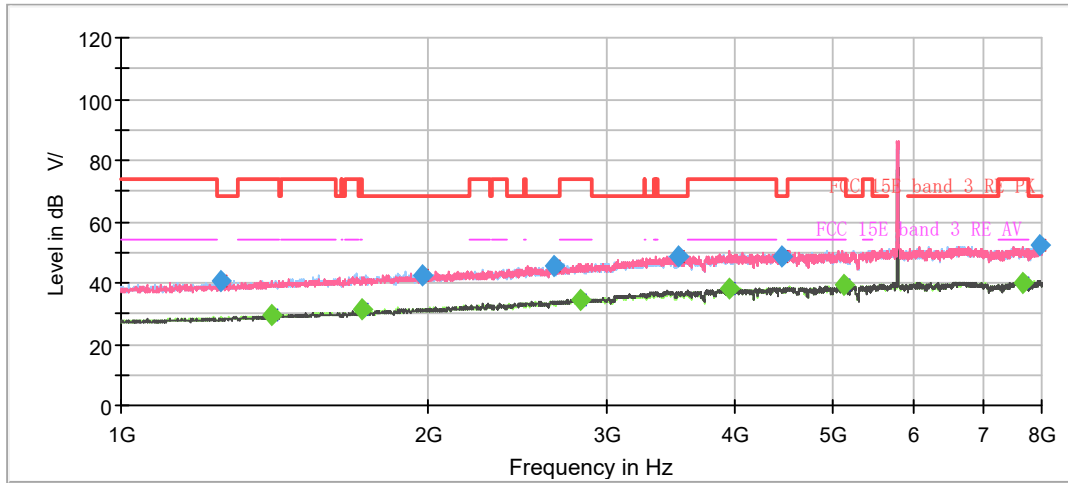
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1255.500000	40.87	---	68.20	27.33	500.0	200.0	V	336.0	-8.3
1403.375000	---	29.76	54.00	24.24	500.0	100.0	V	242.0	-7.5
1518.000000	---	30.71	54.00	23.29	500.0	200.0	V	30.0	-6.8
1938.000000	43.80	---	68.20	24.40	500.0	200.0	H	275.0	-4.7
2677.375000	45.85	---	68.20	22.35	500.0	100.0	V	306.0	-1.9
2692.250000	---	34.67	54.00	19.33	500.0	200.0	V	24.0	-1.8
3571.625000	48.97	---	68.20	19.23	500.0	200.0	V	10.0	1.5
3982.000000	---	38.08	54.00	15.92	500.0	200.0	V	257.0	2.8
4431.750000	49.02	---	68.20	19.18	500.0	100.0	H	288.0	3.9
5034.625000	---	41.33	54.00	12.67	500.0	200.0	V	288.0	4.9
6480.125000	52.20	---	68.20	16.00	500.0	200.0	V	24.0	6.2
7649.125000	---	40.26	54.00	13.74	500.0	200.0	H	144.0	7.7

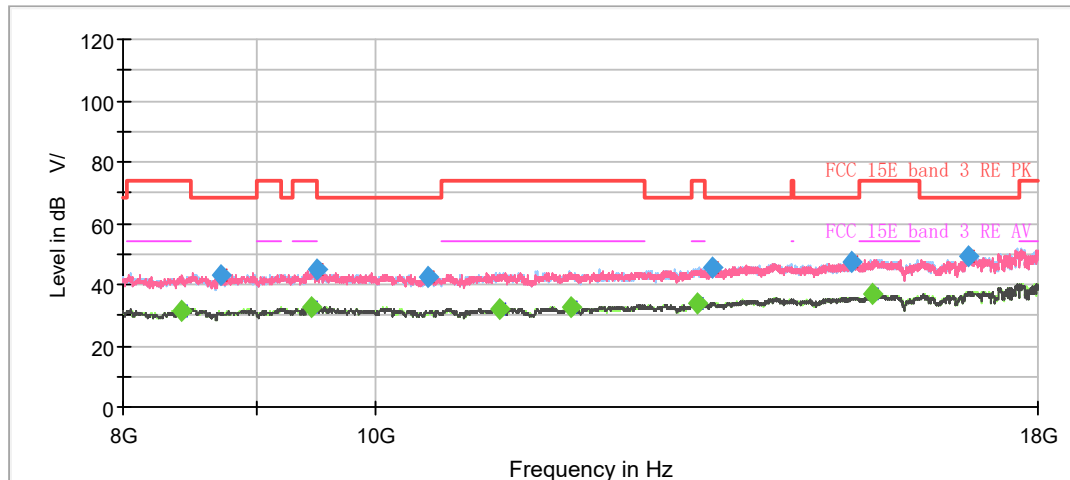
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH157



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

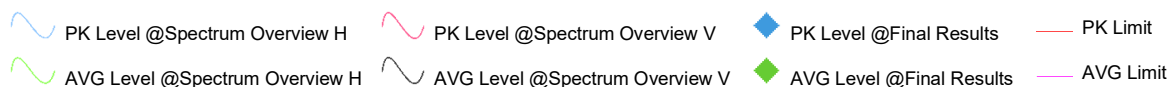
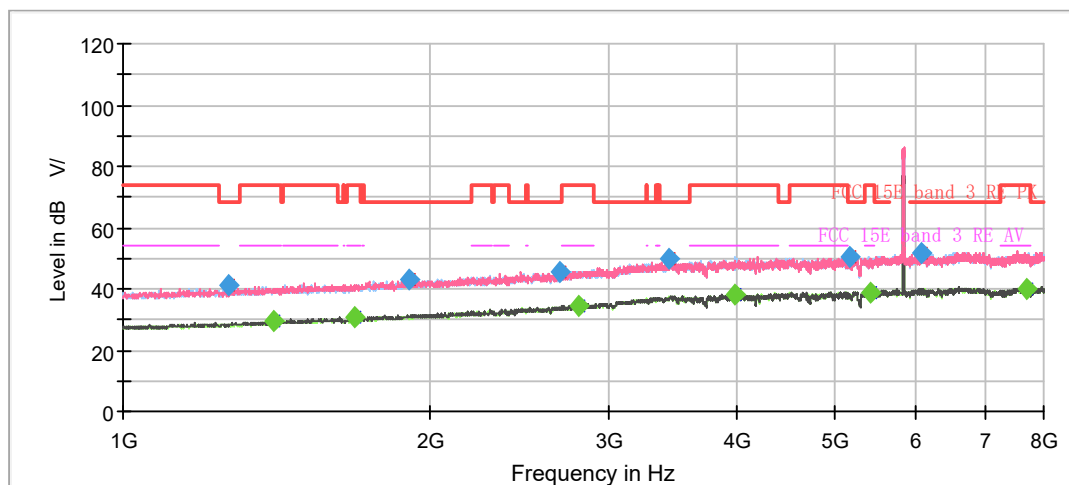
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1251.125000	40.47	---	68.20	27.73	500.0	100.0	H	0.0	-8.3
1403.375000	---	29.68	54.00	24.32	500.0	200.0	V	66.0	-7.5
1720.125000	---	31.09	54.00	22.91	500.0	200.0	H	0.0	-5.8
1977.375000	42.51	---	68.20	25.69	500.0	100.0	H	20.0	-4.6
2660.750000	45.51	---	68.20	22.69	500.0	100.0	V	330.0	-1.9
2820.875000	---	34.43	54.00	19.57	500.0	200.0	V	37.0	-1.3
3522.625000	48.89	---	68.20	19.31	500.0	100.0	V	195.0	1.3
3946.125000	---	38.04	54.00	15.96	500.0	200.0	V	57.0	2.6
4451.000000	48.91	---	68.20	19.29	500.0	200.0	H	202.0	3.9
5120.375000	---	39.14	54.00	14.86	500.0	100.0	H	45.0	5.1
7680.625000	---	40.13	54.00	13.87	500.0	100.0	H	214.0	7.8
7952.750000	52.44	---	68.20	15.76	500.0	200.0	H	346.0	8.3

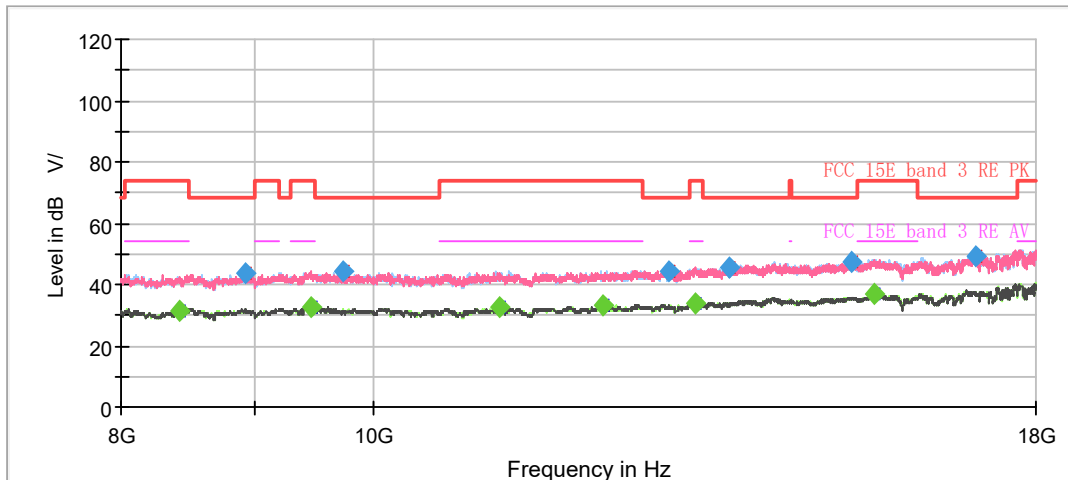
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH165



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

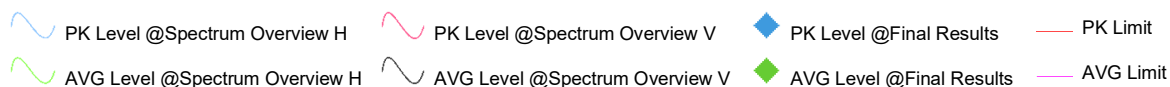
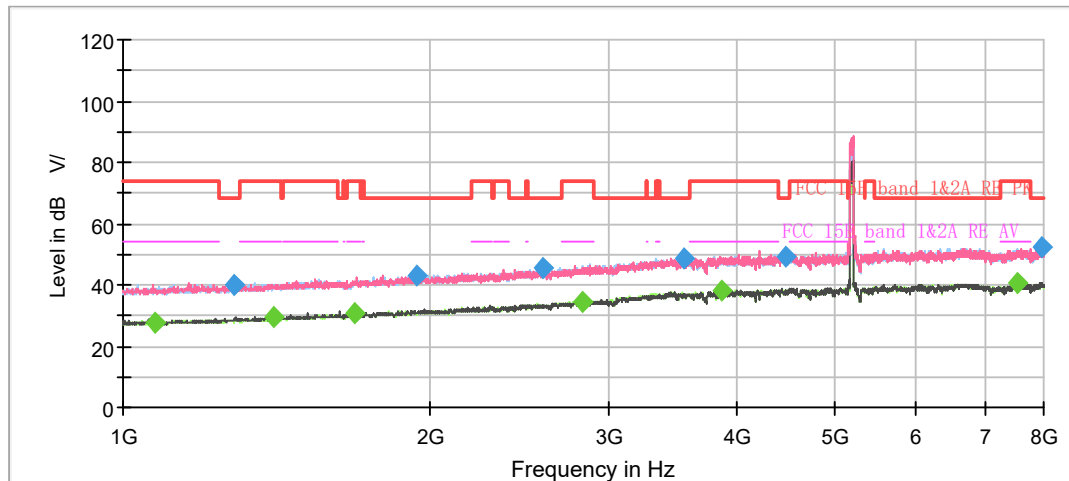
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1270.375000	41.17	---	68.20	27.03	500.0	200.0	V	0.0	-8.2
1403.375000	---	29.44	54.00	24.56	500.0	200.0	V	297.0	-7.5
1689.500000	---	30.89	54.00	23.11	500.0	100.0	V	201.0	-5.9
1910.000000	42.78	---	68.20	25.42	500.0	100.0	V	302.0	-4.9
2676.500000	45.55	---	68.20	22.65	500.0	100.0	V	226.0	-1.9
2804.250000	---	34.69	54.00	19.31	500.0	100.0	V	186.0	-1.4
3434.250000	49.74	---	68.20	18.46	500.0	200.0	H	148.0	1.0
3990.750000	---	38.11	54.00	15.89	500.0	200.0	V	215.0	2.9
5152.750000	50.76	---	68.20	17.44	500.0	200.0	H	100.0	5.2
5419.625000	---	38.91	54.00	15.09	500.0	100.0	H	13.0	5.8
6068.875000	51.98	---	68.20	16.22	500.0	100.0	H	4.0	6.3
7691.125000	---	40.20	54.00	13.80	500.0	100.0	H	324.0	7.9

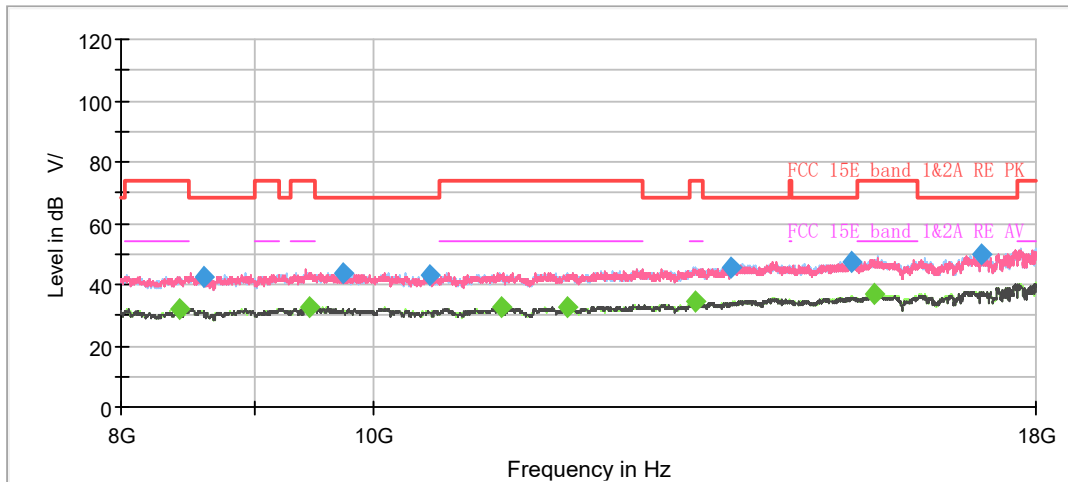
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - MAX Peak/ Average

802.11n (HT40) CH38



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

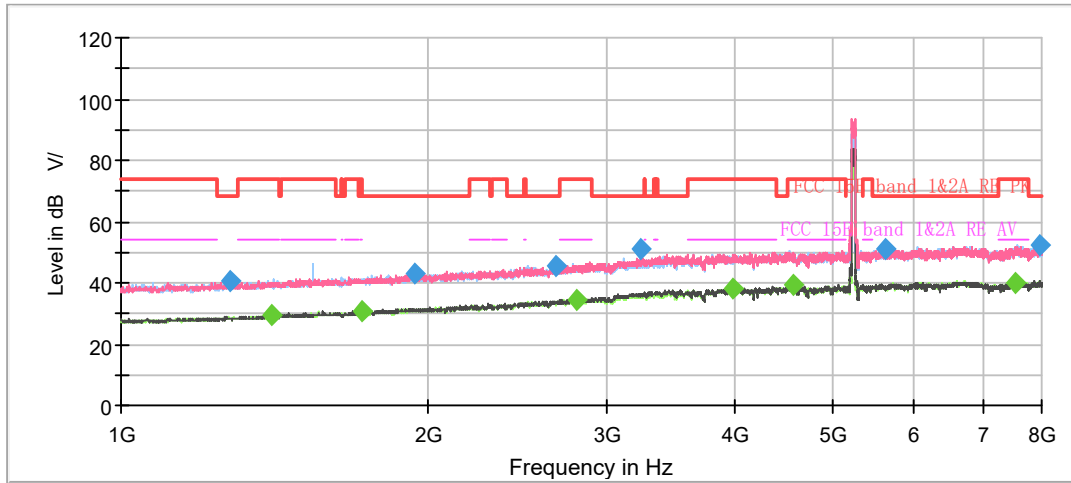
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1075.250000	---	27.63	54.00	26.37	500.0	200.0	H	325.0	-9.5
1286.125000	39.90	---	68.20	28.30	500.0	100.0	V	255.0	-8.1
1403.375000	---	29.59	54.00	24.41	500.0	200.0	V	310.0	-7.5
1689.500000	---	30.58	54.00	23.42	500.0	100.0	V	304.0	-5.9
1945.000000	43.35	---	68.20	24.85	500.0	200.0	H	166.0	-4.7
2584.625000	45.37	---	68.20	22.83	500.0	100.0	V	231.0	-2.2
2822.625000	---	34.56	54.00	19.44	500.0	100.0	H	84.0	-1.3
3543.625000	48.40	---	68.20	19.80	500.0	100.0	V	197.0	1.4
3866.500000	---	38.05	54.00	15.95	500.0	100.0	V	0.0	2.4
4466.750000	48.95	---	68.20	19.25	500.0	200.0	H	186.0	4.1
7547.625000	---	40.37	54.00	13.63	500.0	200.0	V	178.0	7.4
7957.125000	52.31	---	68.20	15.89	500.0	100.0	V	115.0	8.3

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

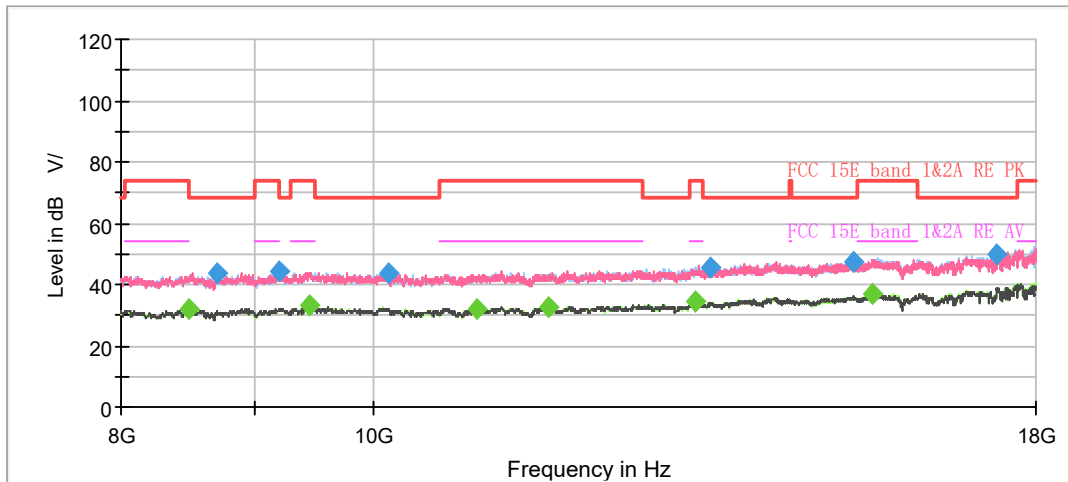
2. Margin = Limit –MAX Peak/ Average

802.11n (HT40) CH46



~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

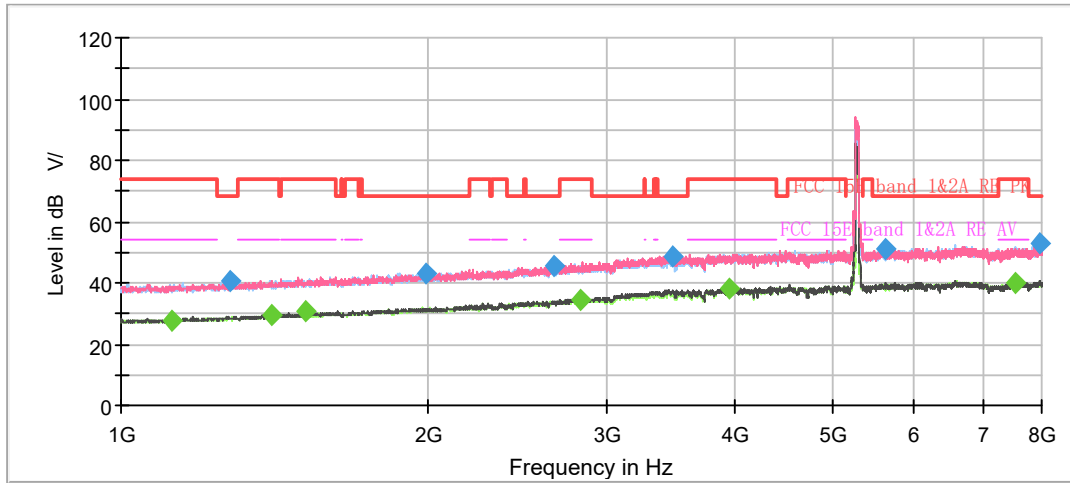
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1280.000000	40.37	---	68.20	27.83	500.0	200.0	H	312.0	-8.1
1403.375000	---	29.83	54.00	24.17	500.0	100.0	V	89.0	-7.5
1721.000000	---	30.88	54.00	23.12	500.0	100.0	V	89.0	-5.8
1944.125000	43.00	---	68.20	25.20	500.0	100.0	V	175.0	-4.7
2666.000000	45.69	---	68.20	22.51	500.0	100.0	V	175.0	-1.9
2801.625000	---	34.76	54.00	19.24	500.0	100.0	V	205.0	-1.4
3236.500000	50.98	---	68.20	17.22	500.0	100.0	H	297.0	0.2
3989.875000	---	38.03	54.00	15.97	500.0	200.0	V	223.0	2.9
4560.375000	---	39.30	54.00	14.70	500.0	100.0	V	130.0	4.2
5628.750000	50.85	---	68.20	17.35	500.0	200.0	H	221.0	6.1
7552.000000	---	40.07	54.00	13.93	500.0	200.0	V	26.0	7.4
7969.375000	52.01	---	68.20	16.19	500.0	100.0	H	27.0	8.4

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

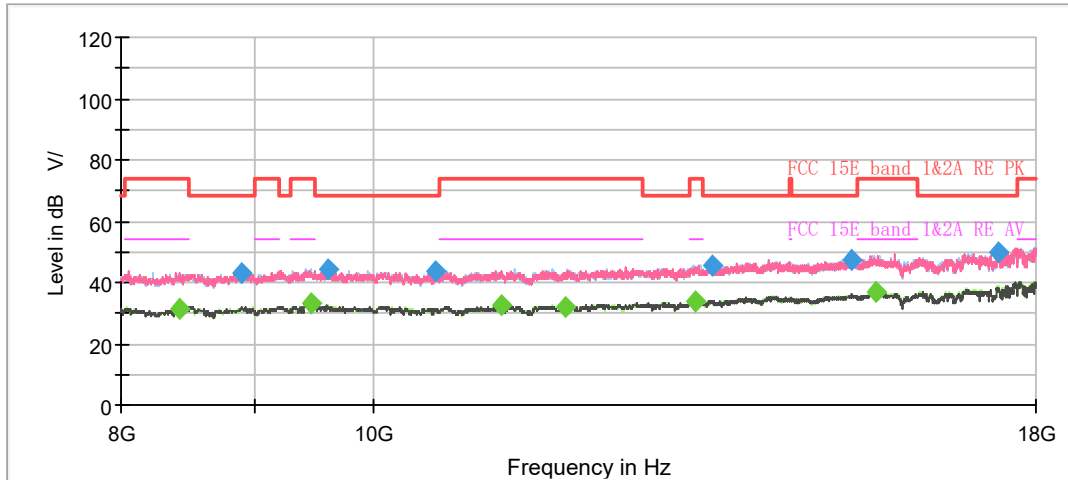
2. Margin = Limit - MAX Peak/ Average

802.11n (HT40) CH54



~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

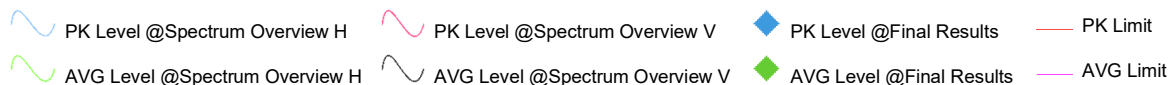
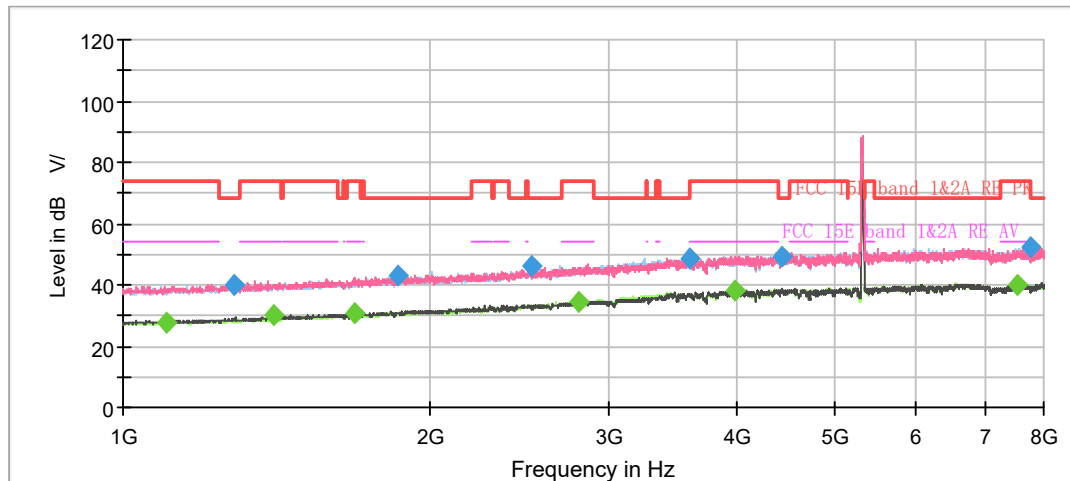
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1122.500000	---	27.84	54.00	26.16	500.0	200.0	H	246.0	-9.2
1280.000000	40.54	---	68.20	27.66	500.0	200.0	V	322.0	-8.1
1403.375000	---	29.67	54.00	24.33	500.0	200.0	V	342.0	-7.5
1518.000000	---	30.62	54.00	23.38	500.0	200.0	V	215.0	-6.8
1992.250000	42.85	---	68.20	25.35	500.0	200.0	V	161.0	-4.5
2659.000000	45.58	---	68.20	22.62	500.0	100.0	V	171.0	-1.9
2819.125000	---	34.68	54.00	19.32	500.0	200.0	V	205.0	-1.3
3472.750000	48.86	---	68.20	19.34	500.0	100.0	V	344.0	1.2
3947.875000	---	37.95	54.00	16.05	500.0	200.0	V	267.0	2.6
5612.125000	51.06	---	68.20	17.14	500.0	100.0	V	254.0	6.2
7535.375000	---	40.09	54.00	13.91	500.0	100.0	H	176.0	7.4
7961.500000	52.62	---	68.20	15.58	500.0	200.0	H	232.0	8.3

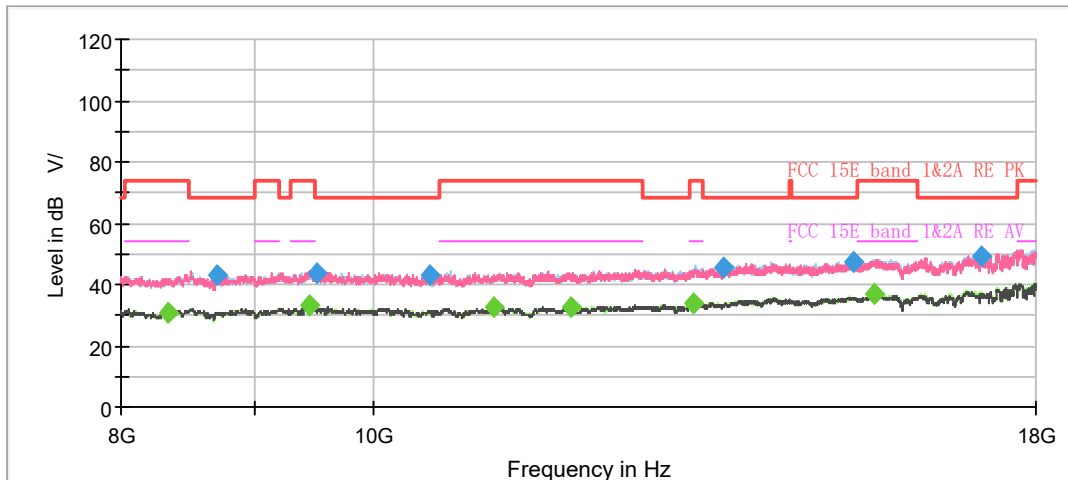
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT40) CH62



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

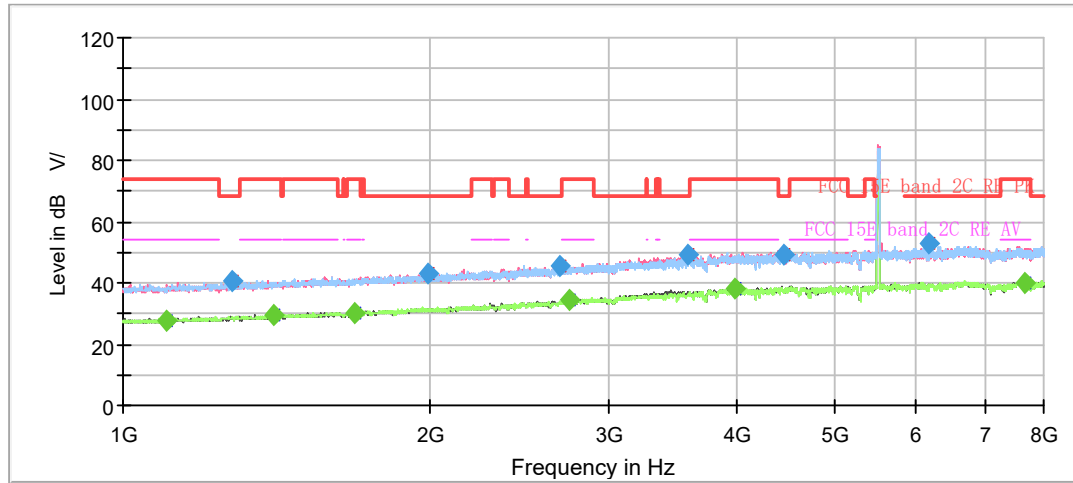
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1103.250000	---	27.73	54.00	26.27	500.0	100.0	H	335.0	-9.3
1285.250000	40.01	---	68.20	28.19	500.0	200.0	H	204.0	-8.1
1403.375000	---	30.39	54.00	23.61	500.0	100.0	V	94.0	-7.5
1690.375000	---	30.59	54.00	23.41	500.0	200.0	V	210.0	-5.9
1863.625000	43.31	---	68.20	24.89	500.0	200.0	V	310.0	-5.1
2512.875000	46.08	---	68.20	22.12	500.0	100.0	V	207.0	-2.4
2801.625000	---	34.47	54.00	19.53	500.0	200.0	H	131.0	-1.4
3597.875000	48.61	---	68.20	19.59	500.0	200.0	H	281.0	1.6
3983.750000	---	38.04	54.00	15.96	500.0	200.0	V	77.0	2.8
4427.375000	49.22	---	68.20	18.98	500.0	200.0	H	87.0	3.9
7552.875000	---	40.19	54.00	13.81	500.0	200.0	V	331.0	7.4
7761.125000	52.03	---	68.20	16.17	500.0	100.0	H	107.0	7.9

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

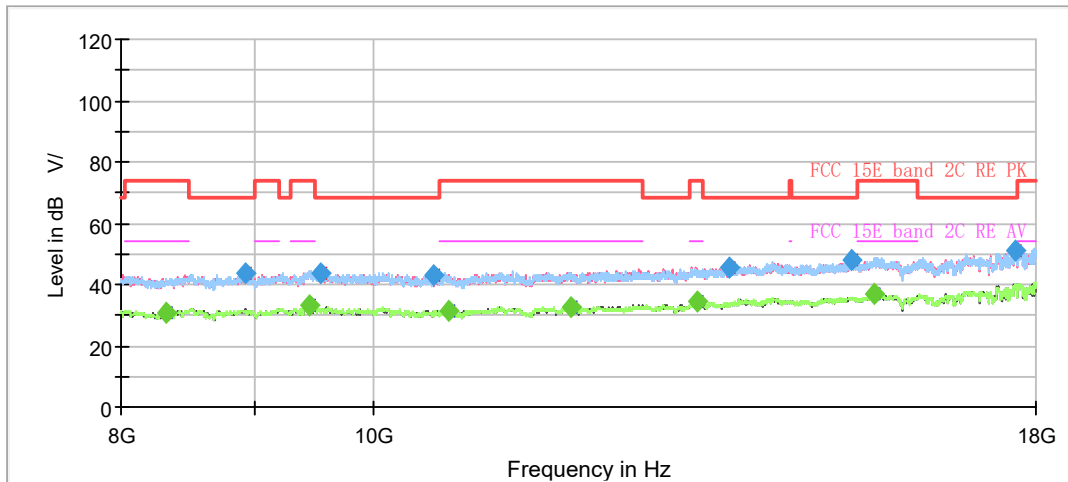
2. Margin = Limit –MAX Peak/ Average

802.11n (HT40) CH102



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

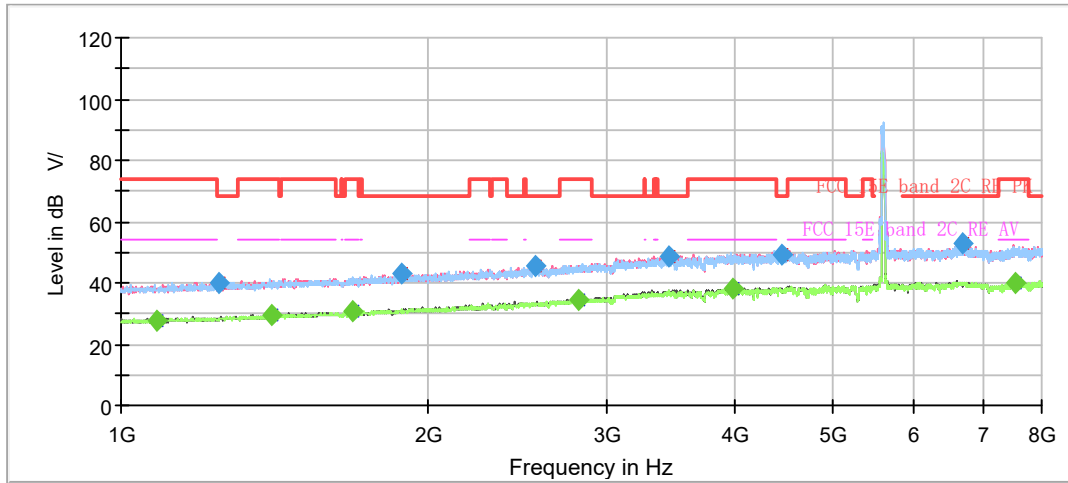
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1102.375000	---	27.49	54.00	26.51	500.0	100.0	V	320.0	-9.3
1281.750000	40.67	---	68.20	27.53	500.0	100.0	H	19.0	-8.1
1403.375000	---	29.71	54.00	24.29	500.0	200.0	V	122.0	-7.5
1689.500000	---	30.44	54.00	23.56	500.0	200.0	H	192.0	-5.9
1987.875000	42.78	---	68.20	25.42	500.0	100.0	H	134.0	-4.6
2681.750000	45.78	---	68.20	22.42	500.0	100.0	H	0.0	-1.9
2744.750000	---	34.31	54.00	19.69	500.0	100.0	V	84.0	-1.6
3576.875000	49.03	---	68.20	19.17	500.0	200.0	V	147.0	1.5
3989.875000	---	37.92	54.00	16.08	500.0	100.0	V	256.0	2.9
4452.750000	49.25	---	68.20	18.95	500.0	100.0	H	34.0	4.0
6183.500000	52.96	---	68.20	15.24	500.0	200.0	V	83.0	6.0
7665.750000	---	40.17	54.00	13.83	500.0	100.0	V	154.0	7.7

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

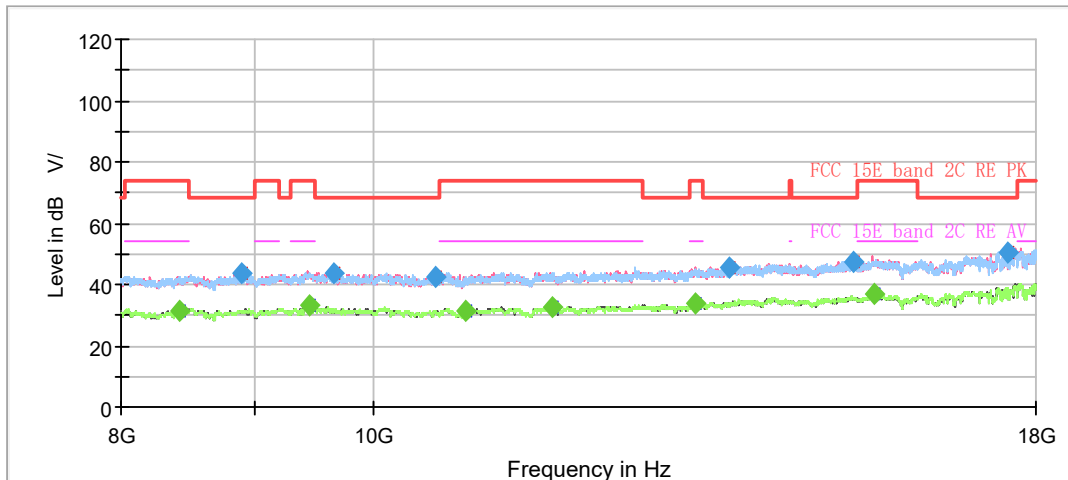
2. Margin = Limit –MAX Peak/ Average

802.11n (HT40) CH118



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

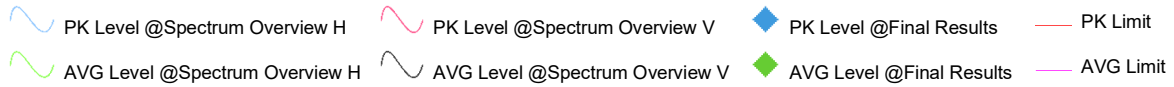
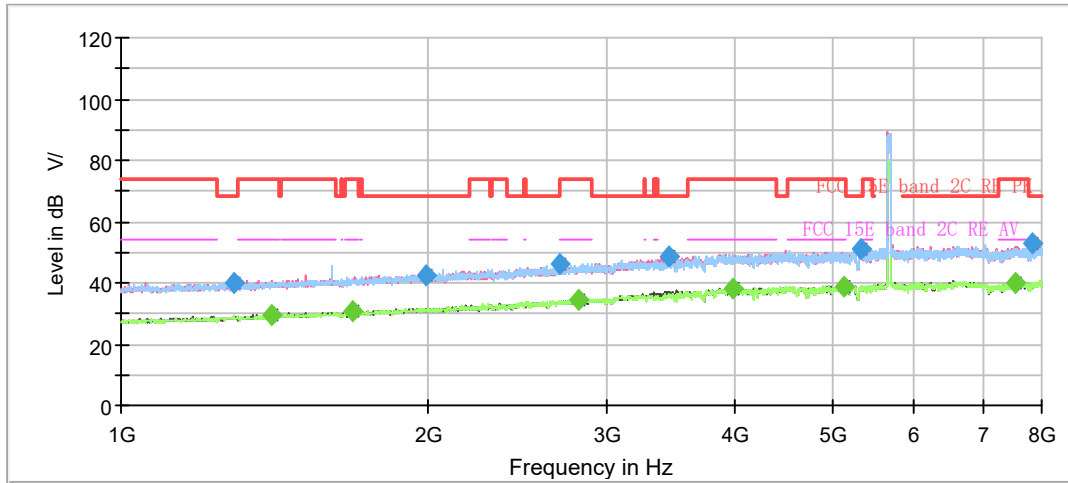
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1082.250000	---	27.94	54.00	26.06	500.0	200.0	H	180.0	-9.4
1249.375000	40.22	---	68.20	27.98	500.0	200.0	H	18.0	-8.3
1403.375000	---	29.58	54.00	24.42	500.0	200.0	V	312.0	-7.5
1689.500000	---	30.92	54.00	23.08	500.0	100.0	V	37.0	-5.9
1882.875000	43.00	---	68.20	25.20	500.0	200.0	V	276.0	-5.0
2547.875000	45.34	---	68.20	22.86	500.0	200.0	V	316.0	-2.2
2808.625000	---	34.43	54.00	19.57	500.0	200.0	V	354.0	-1.3
3449.125000	48.79	---	68.20	19.41	500.0	100.0	V	249.0	1.1
3983.750000	---	38.05	54.00	15.95	500.0	100.0	V	124.0	2.8
4452.750000	49.38	---	68.20	18.82	500.0	100.0	V	105.0	4.0
6686.625000	53.01	---	68.20	15.19	500.0	100.0	V	308.0	6.6
7530.125000	---	40.21	54.00	13.79	500.0	200.0	V	117.0	7.4

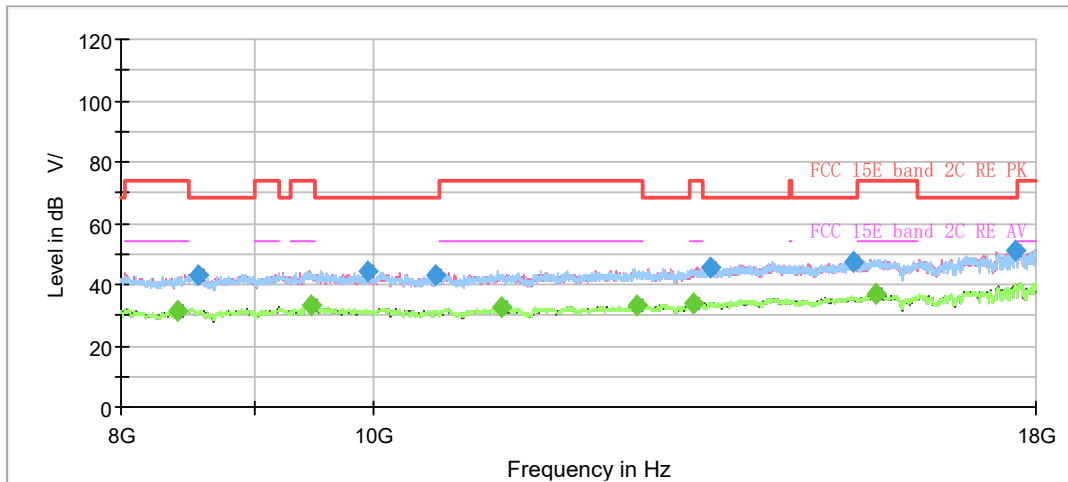
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT40) CH134



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

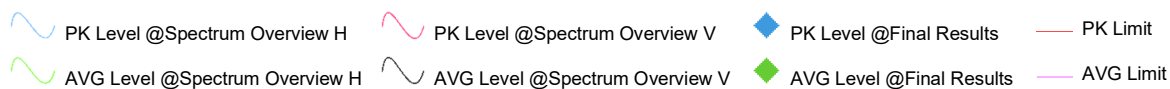
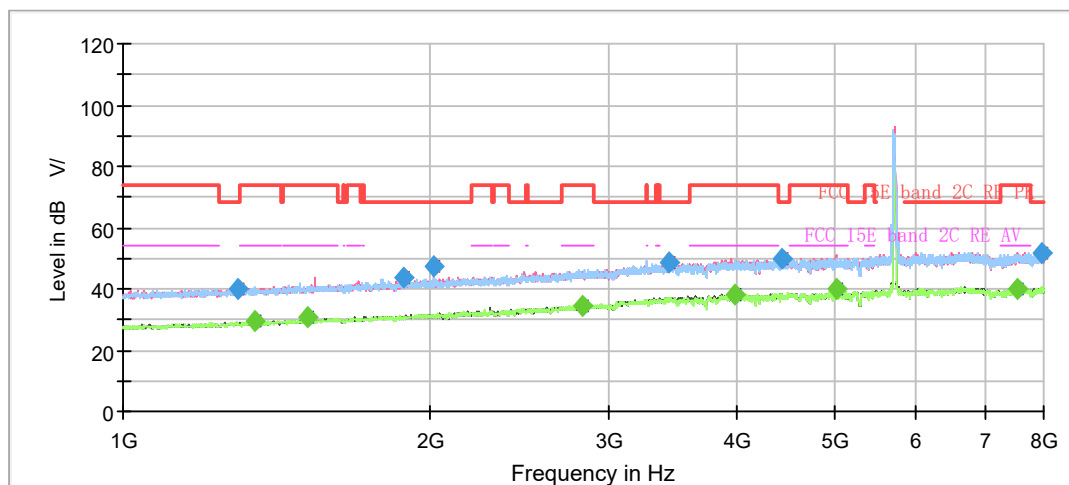
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1290.500000	40.04	---	68.20	28.16	500.0	100.0	V	120.0	-8.1
1403.375000	---	29.75	54.00	24.25	500.0	200.0	V	302.0	-7.5
1689.500000	---	30.64	54.00	23.36	500.0	200.0	H	357.0	-5.9
1989.625000	42.71	---	68.20	25.49	500.0	200.0	H	29.0	-4.5
2687.875000	46.26	---	68.20	21.94	500.0	200.0	H	66.0	-1.8
2815.625000	---	34.34	54.00	19.66	500.0	200.0	H	133.0	-1.3
3446.500000	48.75	---	68.20	19.45	500.0	200.0	V	313.0	1.1
3985.500000	---	38.03	54.00	15.97	500.0	200.0	H	174.0	2.9
5124.750000	---	39.00	54.00	15.00	500.0	200.0	H	263.0	5.2
5323.375000	50.90	---	68.20	17.30	500.0	200.0	V	332.0	5.6
7536.250000	---	40.06	54.00	13.94	500.0	100.0	H	275.0	7.4
7823.250000	52.74	---	68.20	15.46	500.0	200.0	V	292.0	8.0

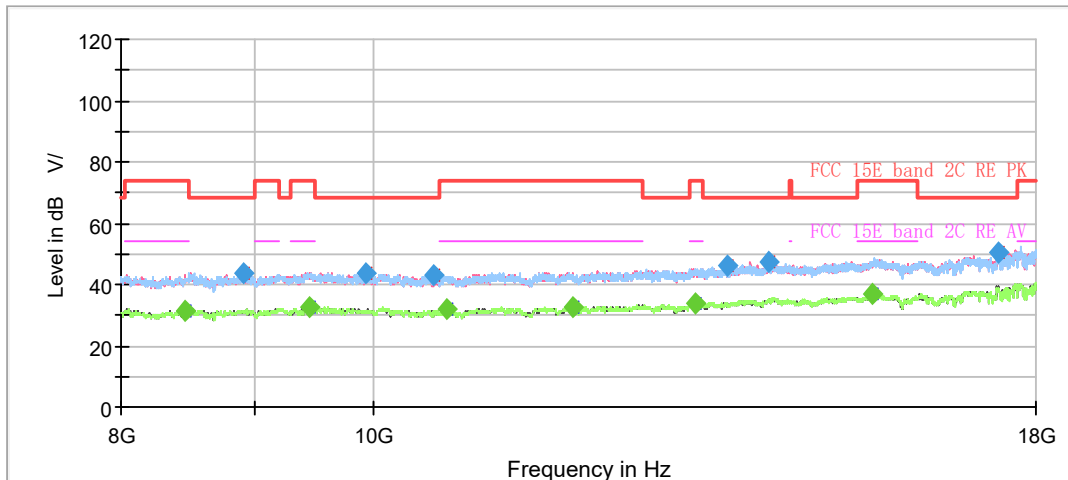
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT40) CH142



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

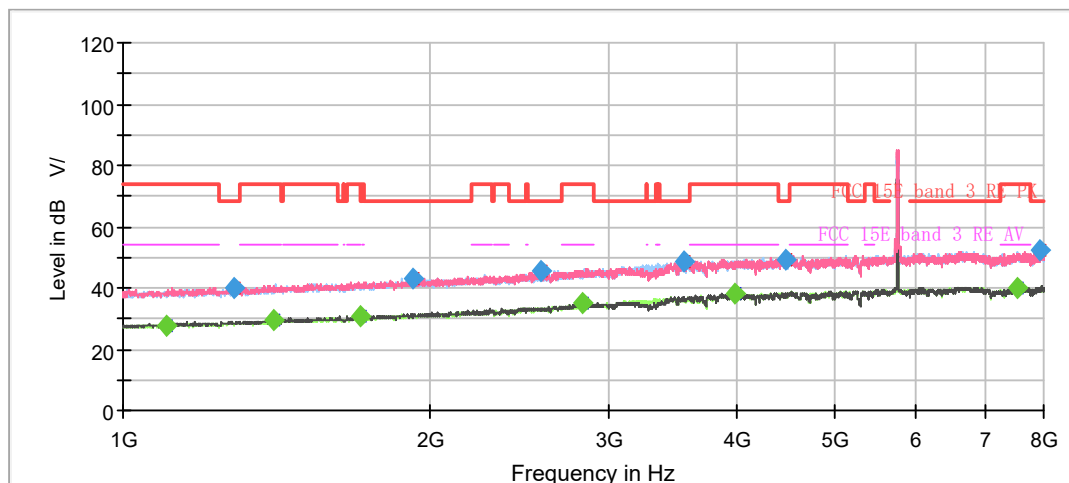
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1298.375000	40.13	---	68.20	28.07	500.0	200.0	V	96.0	-8.0
1345.625000	---	29.83	54.00	24.17	500.0	200.0	V	298.0	-7.8
1518.000000	---	30.63	54.00	23.37	500.0	200.0	V	205.0	-6.8
1885.500000	43.87	---	68.20	24.33	500.0	200.0	H	357.0	-5.0
2015.875000	47.23	---	68.20	20.97	500.0	100.0	V	246.0	-4.4
2818.250000	---	34.45	54.00	19.55	500.0	100.0	H	34.0	-1.3
3439.500000	48.67	---	68.20	19.53	500.0	100.0	V	251.0	1.1
3987.250000	---	38.24	54.00	15.76	500.0	200.0	V	43.0	2.9
4427.375000	49.84	---	68.20	18.36	500.0	200.0	V	185.0	3.9
5003.125000	---	39.70	54.00	14.30	500.0	200.0	V	288.0	4.8
7538.875000	---	40.05	54.00	13.95	500.0	200.0	H	216.0	7.4
7965.875000	51.87	---	68.20	16.33	500.0	100.0	H	246.0	8.3

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

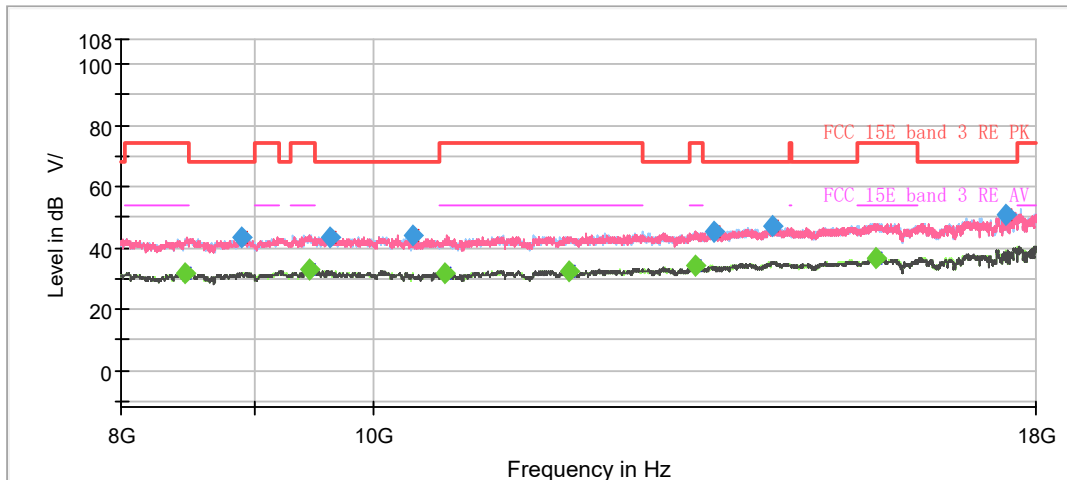
2. Margin = Limit - MAX Peak/ Average

802.11n (HT40) CH151



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

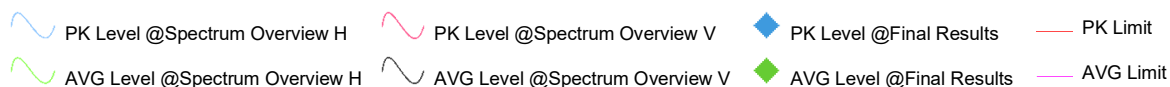
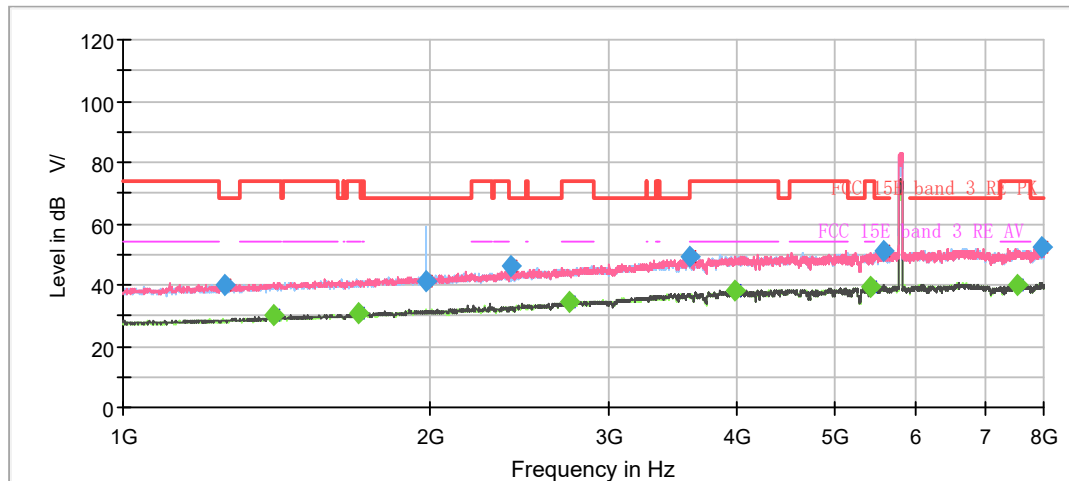
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1105.000000	---	27.45	54.00	26.55	500.0	200.0	H	222.0	-9.2
1286.125000	40.21	---	68.20	27.99	500.0	200.0	V	186.0	-8.1
1403.375000	---	29.56	54.00	24.44	500.0	200.0	V	143.0	-7.5
1705.250000	---	30.55	54.00	23.45	500.0	100.0	V	233.0	-5.9
1923.125000	43.19	---	68.20	25.01	500.0	200.0	H	101.0	-4.8
2572.375000	45.42	---	68.20	22.78	500.0	200.0	H	87.0	-2.2
2820.000000	---	34.80	54.00	19.20	500.0	200.0	V	171.0	-1.3
3555.000000	48.46	---	68.20	19.74	500.0	200.0	V	329.0	1.4
3987.250000	---	37.98	54.00	16.02	500.0	100.0	V	223.0	2.9
4471.125000	48.99	---	68.20	19.21	500.0	100.0	H	247.0	4.1
7551.125000	---	40.14	54.00	13.86	500.0	200.0	V	254.0	7.4
7933.500000	52.18	---	68.20	16.02	500.0	200.0	V	358.0	8.2

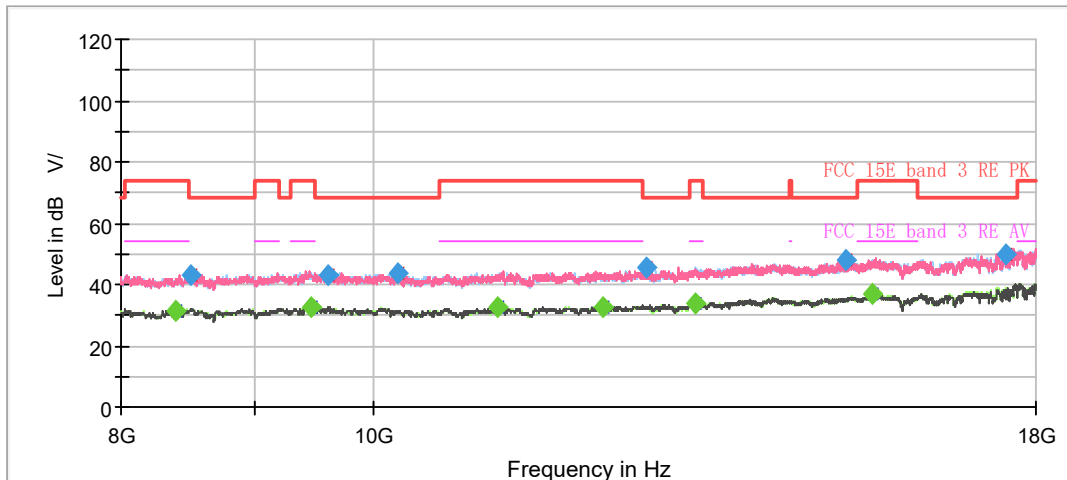
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11n (HT40) CH159



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

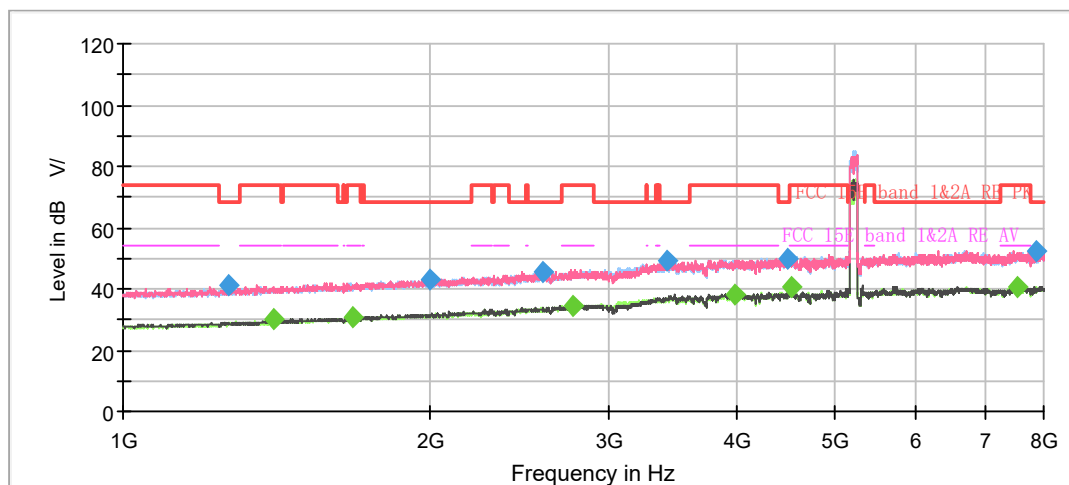
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1258.125000	40.14	---	68.20	28.06	500.0	200.0	H	144.0	-8.3
1403.375000	---	30.09	54.00	23.91	500.0	200.0	V	73.0	-7.5
1699.125000	---	30.74	54.00	23.26	500.0	100.0	V	18.0	-5.9
1981.750000	41.47	---	68.20	26.73	500.0	200.0	V	327.0	-4.6
2401.750000	45.89	---	68.20	22.31	500.0	100.0	V	28.0	-2.8
2741.250000	---	34.60	54.00	19.40	500.0	100.0	H	354.0	-1.6
3590.000000	49.13	---	68.20	19.07	500.0	100.0	V	10.0	1.6
3989.000000	---	38.45	54.00	15.55	500.0	200.0	H	1.0	2.9
5418.750000	---	39.10	54.00	14.90	500.0	200.0	V	341.0	5.8
5574.500000	51.23	---	68.20	16.97	500.0	100.0	H	295.0	6.2
7546.750000	---	40.05	54.00	13.95	500.0	100.0	V	89.0	7.4
7968.500000	52.20	---	68.20	16.00	500.0	200.0	V	341.0	8.3

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

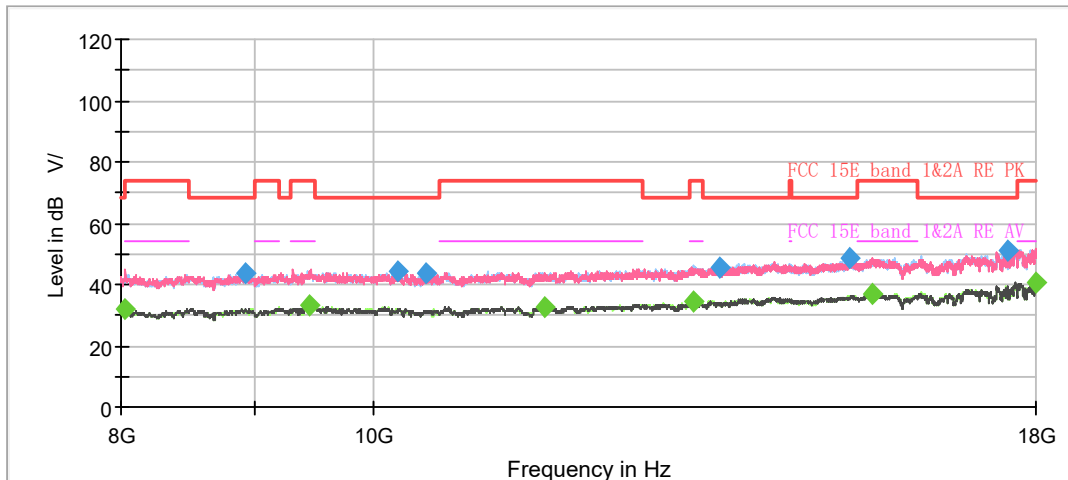
2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT80) CH42



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

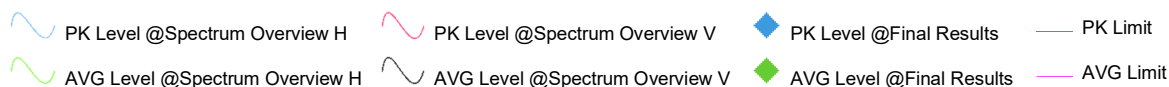
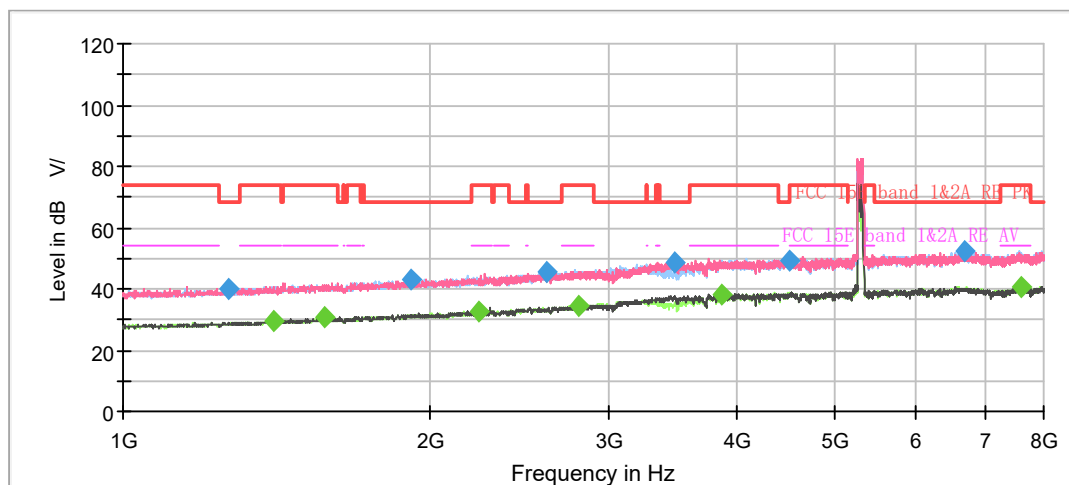
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1269.500000	41.16	---	68.20	27.04	500.0	100.0	V	14.0	-8.2
1403.375000	---	30.02	54.00	23.98	500.0	200.0	V	287.0	-7.5
1680.750000	---	30.67	54.00	23.33	500.0	100.0	V	173.0	-6.0
1997.500000	43.20	---	68.20	25.00	500.0	100.0	V	24.0	-4.5
2584.625000	45.42	---	68.20	22.78	500.0	200.0	H	300.0	-2.2
2763.125000	---	34.59	54.00	19.41	500.0	200.0	H	261.0	-1.5
3418.500000	49.07	---	68.20	19.13	500.0	100.0	V	0.0	1.0
3983.750000	---	38.20	54.00	15.80	500.0	100.0	H	232.0	2.8
4484.250000	49.73	---	68.20	18.47	500.0	100.0	V	209.0	4.3
4518.375000	---	40.70	54.00	13.30	500.0	200.0	H	160.0	4.3
7551.125000	---	40.67	54.00	13.34	500.0	200.0	V	232.0	7.4
7874.875000	52.35	---	68.20	15.85	500.0	100.0	V	283.0	8.1

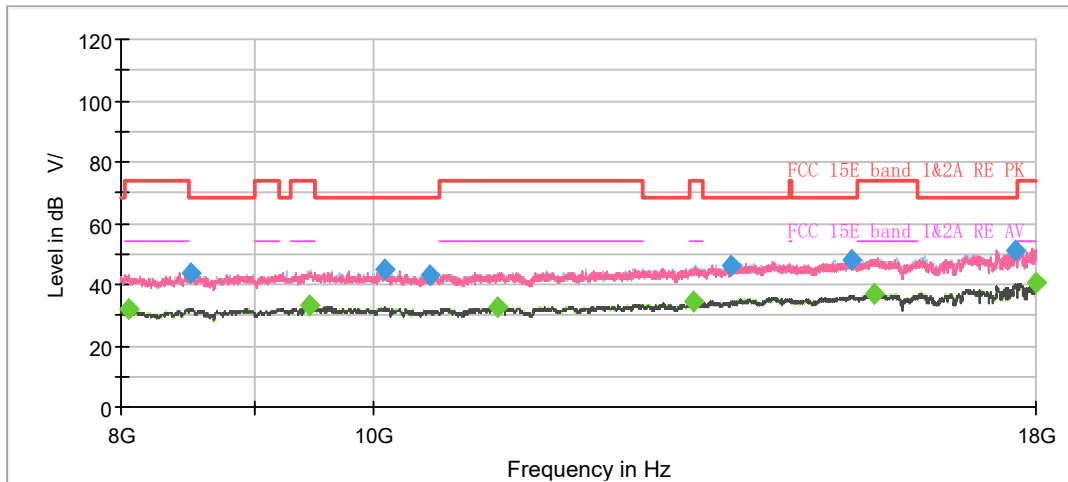
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT80) CH58



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

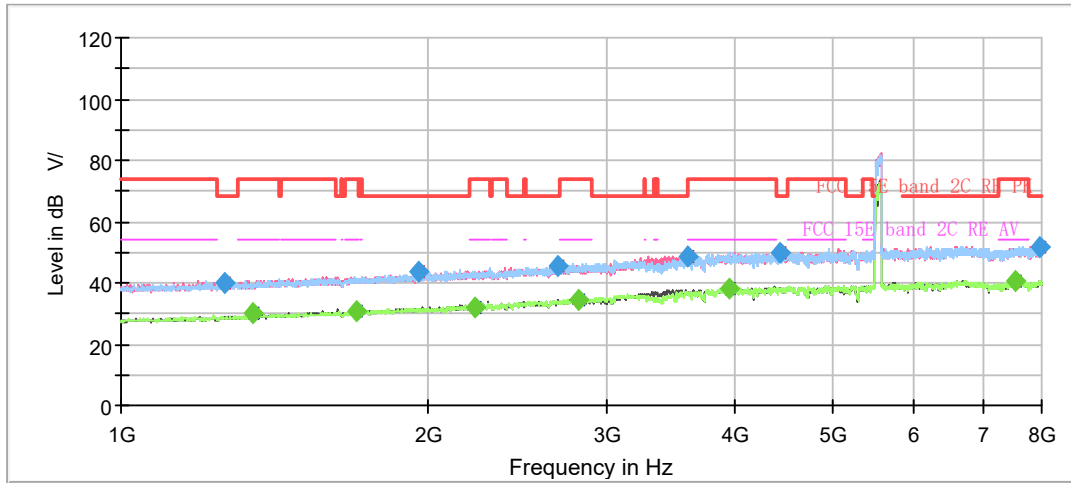
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1271.250000	40.04	---	68.20	28.16	500.0	200.0	V	15.0	-8.2
1403.375000	---	29.63	54.00	24.37	500.0	100.0	V	34.0	-7.5
1574.875000	---	30.78	54.00	23.22	500.0	200.0	V	249.0	-6.5
1919.625000	42.95	---	68.20	25.25	500.0	100.0	V	298.0	-4.8
2233.750000	---	32.79	54.00	21.21	500.0	200.0	V	26.0	-3.5
2598.625000	45.37	---	68.20	22.83	500.0	100.0	H	3.0	-2.2
2799.875000	---	34.44	54.00	19.56	500.0	200.0	H	257.0	-1.4
3481.500000	48.92	---	68.20	19.28	500.0	100.0	V	0.0	1.2
3863.000000	---	38.15	54.00	15.85	500.0	200.0	V	344.0	2.4
4498.500000	49.41	---	68.20	18.79	500.0	200.0	H	9.0	3.8
6684.875000	52.58	---	68.20	15.62	500.0	100.0	H	278.0	6.6
7586.125000	---	40.32	54.00	13.68	500.0	200.0	H	166.0	7.4
17987.500000	---	40.50	54.00	13.50	500.0	100.0	H	278.0	11.0

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

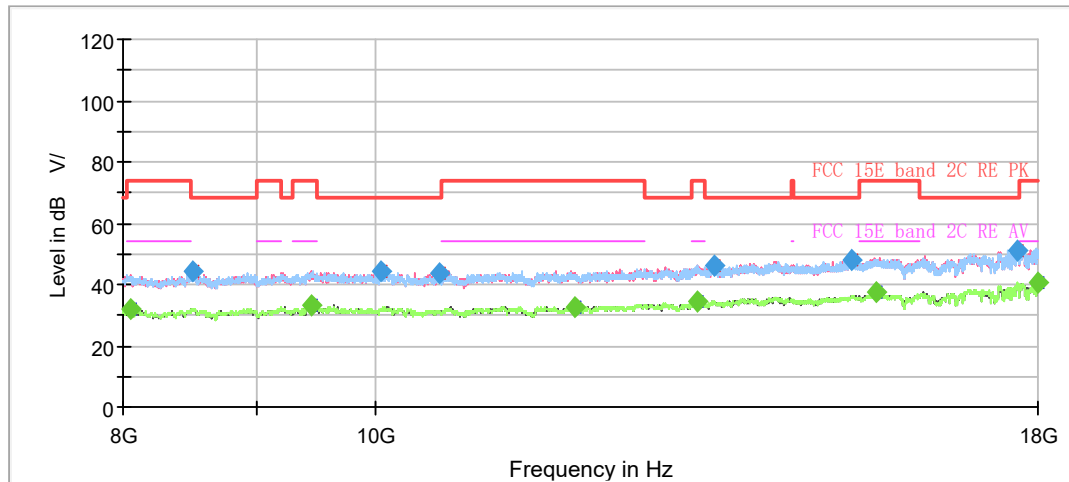
2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT80) CH106



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

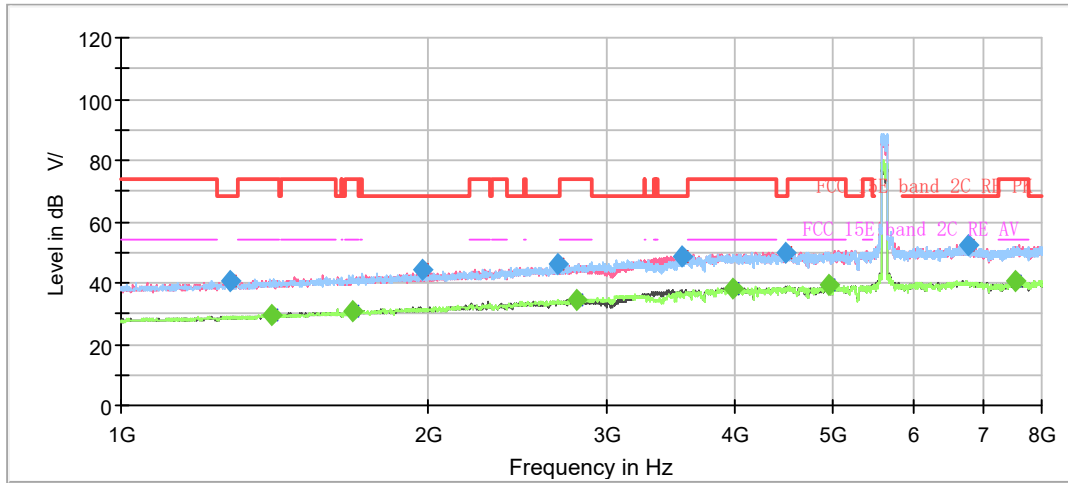
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1263.375000	40.27	---	68.20	27.93	500.0	200.0	V	148.0	-8.2
1345.625000	---	29.90	54.00	24.10	500.0	200.0	V	5.0	-7.8
1700.875000	---	30.80	54.00	23.20	500.0	200.0	H	89.0	-5.9
1960.750000	43.91	---	68.20	24.29	500.0	200.0	H	173.0	-4.6
2225.000000	---	32.26	54.00	21.74	500.0	100.0	V	306.0	-3.5
2683.500000	45.57	---	68.20	22.63	500.0	100.0	H	157.0	-1.8
2813.875000	---	34.52	54.00	19.48	500.0	200.0	H	153.0	-1.3
3596.125000	48.92	---	68.20	19.28	500.0	100.0	V	196.0	1.6
3945.250000	---	38.36	54.00	15.64	500.0	100.0	H	137.0	2.6
4423.000000	49.55	---	68.20	18.65	500.0	100.0	V	137.0	3.9
7538.875000	---	40.48	54.00	13.52	500.0	100.0	H	6.0	7.4
7965.000000	51.98	---	68.20	16.22	500.0	100.0	V	57.0	8.3
17988.75000	---	40.60	54.00	13.40	500.0	100.0	V	164.0	11.0

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

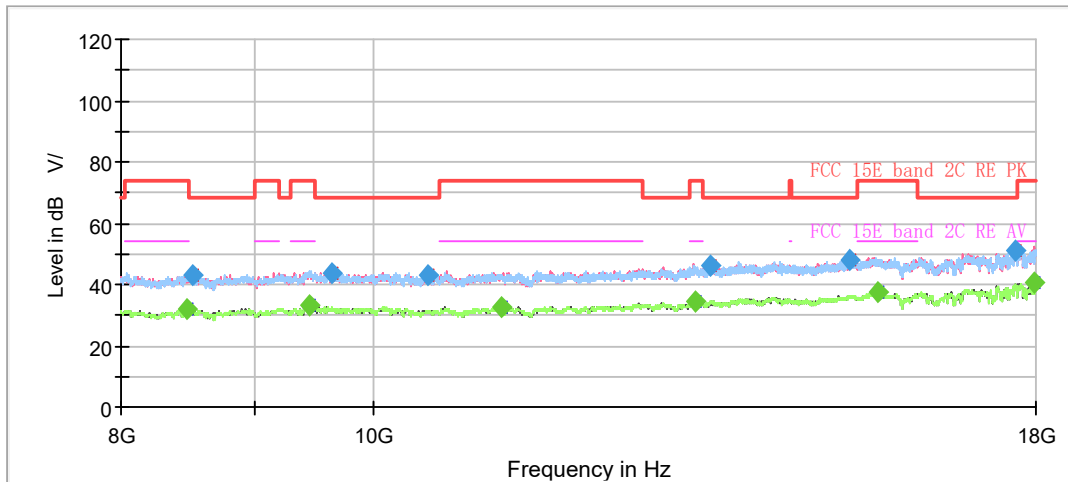
2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT80) CH122



~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

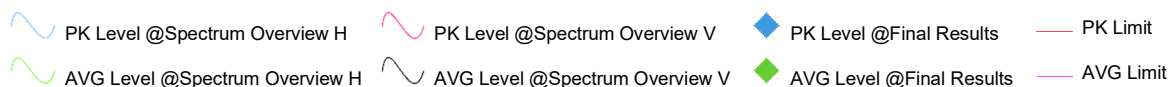
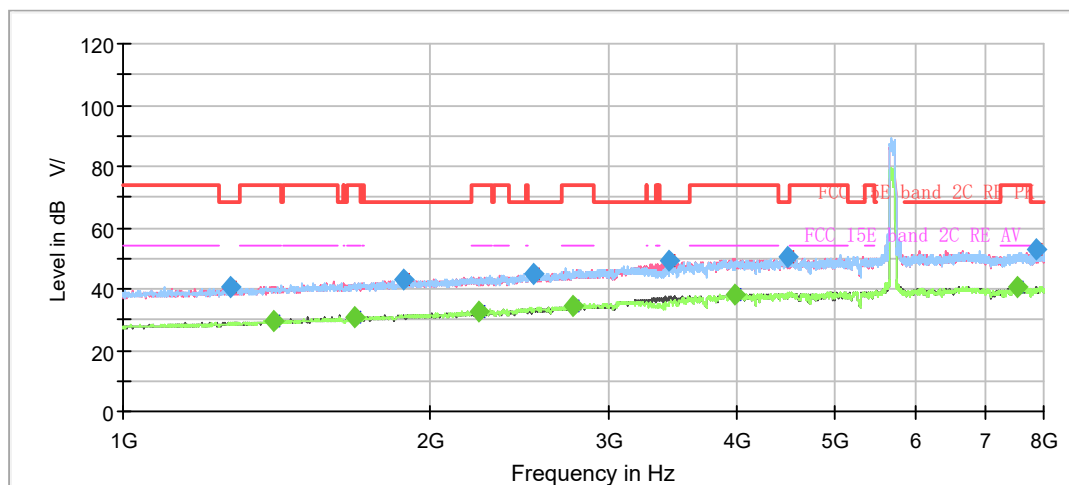
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1277.375000	40.77	---	68.20	27.43	500.0	200.0	H	266.0	-8.2
1403.375000	---	29.79	54.00	24.21	500.0	200.0	V	52.0	-7.5
1686.875000	---	30.90	54.00	23.10	500.0	100.0	H	327.0	-5.9
1974.750000	44.03	---	68.20	24.17	500.0	200.0	H	226.0	-4.6
2677.375000	46.04	---	68.20	22.16	500.0	100.0	H	207.0	-1.9
2803.375000	---	34.60	54.00	19.40	500.0	100.0	H	241.0	-1.4
3552.375000	48.88	---	68.20	19.32	500.0	100.0	H	202.0	1.4
3984.625000	---	38.29	54.00	15.71	500.0	200.0	V	100.0	2.8
4494.750000	49.68	---	68.20	18.52	500.0	100.0	V	176.0	4.3
4940.125000	---	39.13	54.00	14.87	500.0	100.0	V	275.0	5.1
6771.500000	52.38	---	68.20	15.82	500.0	100.0	H	16.0	6.4
7530.125000	---	40.55	54.00	13.45	500.0	200.0	V	0.0	7.4
17981.25000	---	40.66	54.00	13.34	500.0	100.0	V	337.0	11.0

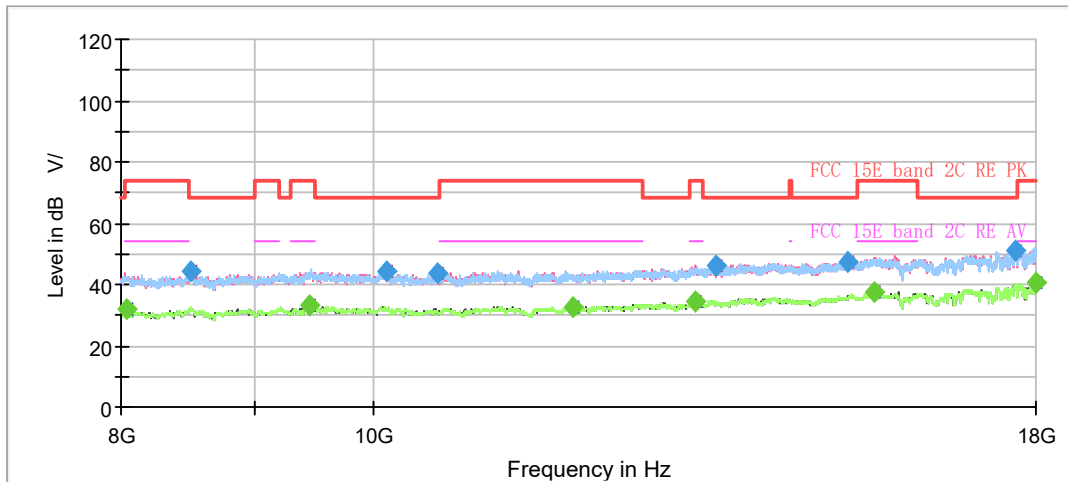
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT80) CH138



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

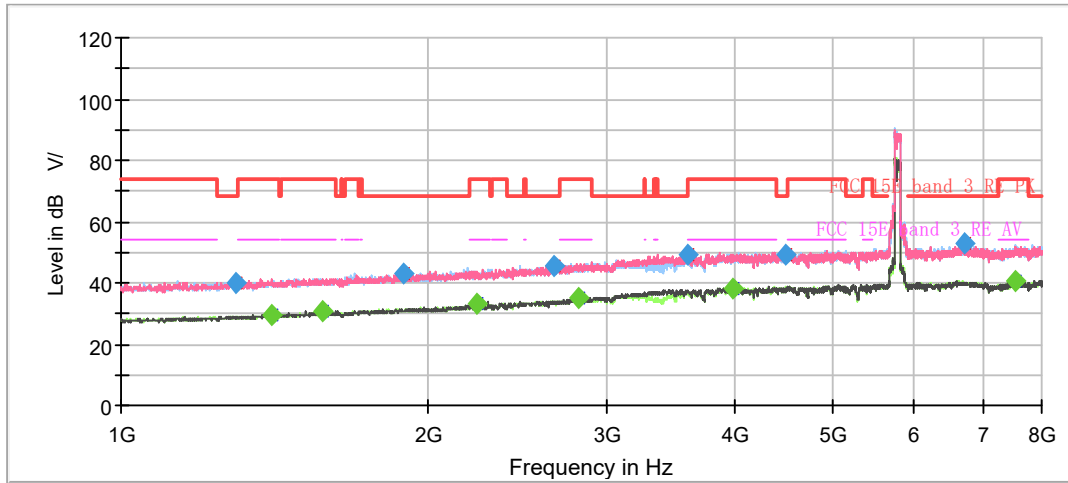
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1276.500000	40.53	---	68.20	27.67	500.0	200.0	H	201.0	-8.2
1402.500000	---	29.60	54.00	24.40	500.0	200.0	H	212.0	-7.5
1689.500000	---	30.86	54.00	23.14	500.0	200.0	H	192.0	-5.9
1888.125000	42.85	---	68.20	25.35	500.0	100.0	H	161.0	-5.0
2234.625000	---	32.63	54.00	21.37	500.0	200.0	V	39.0	-3.5
2526.875000	45.04	---	68.20	23.16	500.0	100.0	H	95.0	-2.3
2768.375000	---	34.56	54.00	19.44	500.0	200.0	H	167.0	-1.5
3427.250000	48.93	---	68.20	19.27	500.0	200.0	V	262.0	1.0
3989.000000	---	38.30	54.00	15.70	500.0	200.0	H	242.0	2.9
4486.875000	50.63	---	68.20	17.57	500.0	200.0	V	160.0	4.3
7552.875000	---	40.57	54.00	13.43	500.0	200.0	V	282.0	7.4
7877.500000	52.72	---	68.20	15.48	500.0	100.0	H	251.0	8.1

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

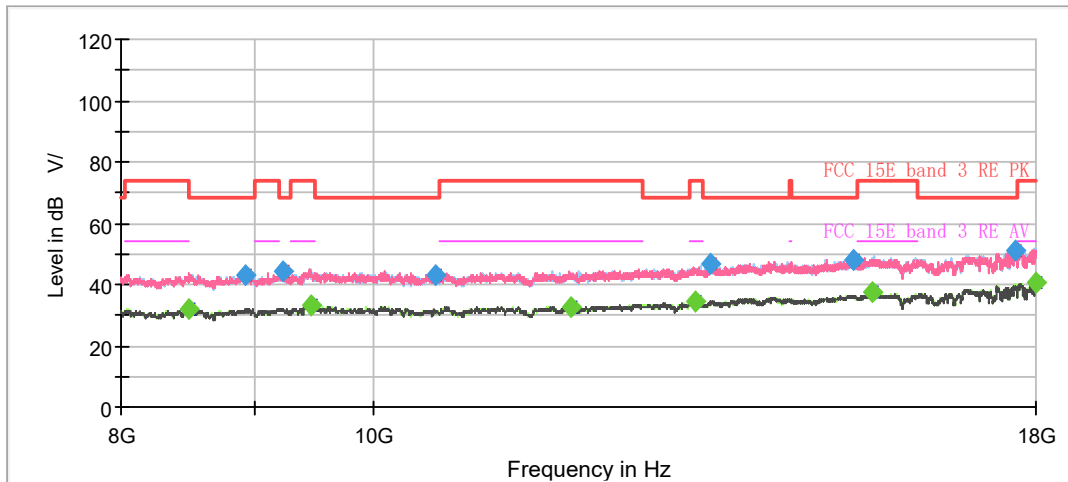
2. Margin = Limit - MAX Peak/ Average

802.11ac (VHT80) CH155



~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



PK Level @Spectrum Overview H PK Level @Spectrum Overview V PK Level @Final Results PK Limit
 AVG Level @Spectrum Overview H AVG Level @Spectrum Overview V AVG Level @Final Results AVG Limit

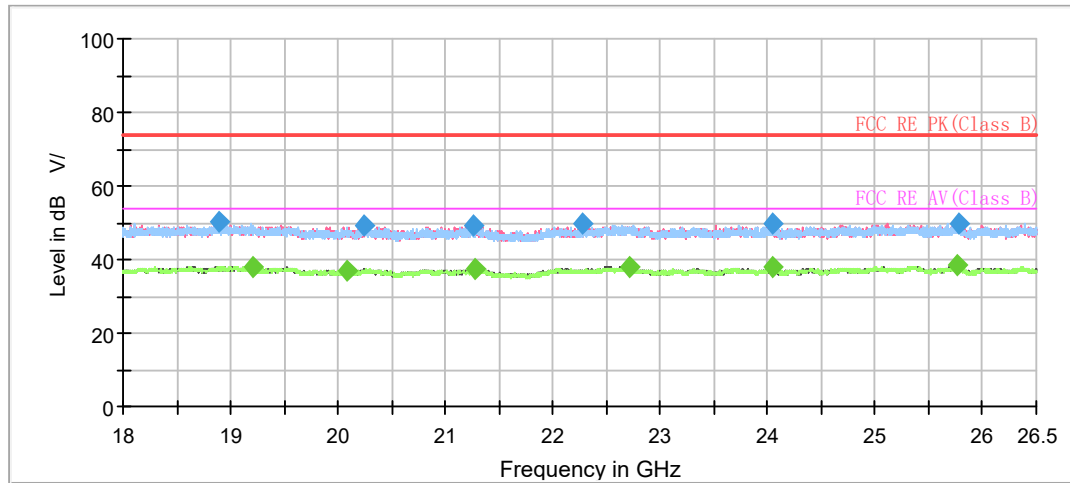
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1298.375000	40.28	---	68.20	27.92	500.0	100.0	V	50.0	-8.0
1403.375000	---	29.65	54.00	24.35	500.0	200.0	V	95.0	-7.5
1574.875000	---	30.76	54.00	23.24	500.0	200.0	V	256.0	-6.5
1890.750000	43.08	---	68.20	25.12	500.0	200.0	V	346.0	-5.0
2233.750000	---	33.04	54.00	20.96	500.0	200.0	V	0.0	-3.5
2654.625000	45.64	---	68.20	22.56	500.0	200.0	V	2.0	-1.9
2812.125000	---	34.81	54.00	19.19	500.0	100.0	V	242.0	-1.3
3599.625000	48.95	---	68.20	19.25	500.0	200.0	V	136.0	1.6
3989.875000	---	38.30	54.00	15.70	500.0	100.0	V	156.0	2.9
4482.500000	49.32	---	68.20	18.88	500.0	100.0	V	84.0	4.2
6720.750000	52.82	---	68.20	15.38	500.0	200.0	H	12.0	6.5
7538.000000	---	40.32	54.00	13.68	500.0	200.0	H	92.0	7.4
17986.25000	---	40.84	54.00	13.16	500.0	100.0	H	140.0	11.0

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

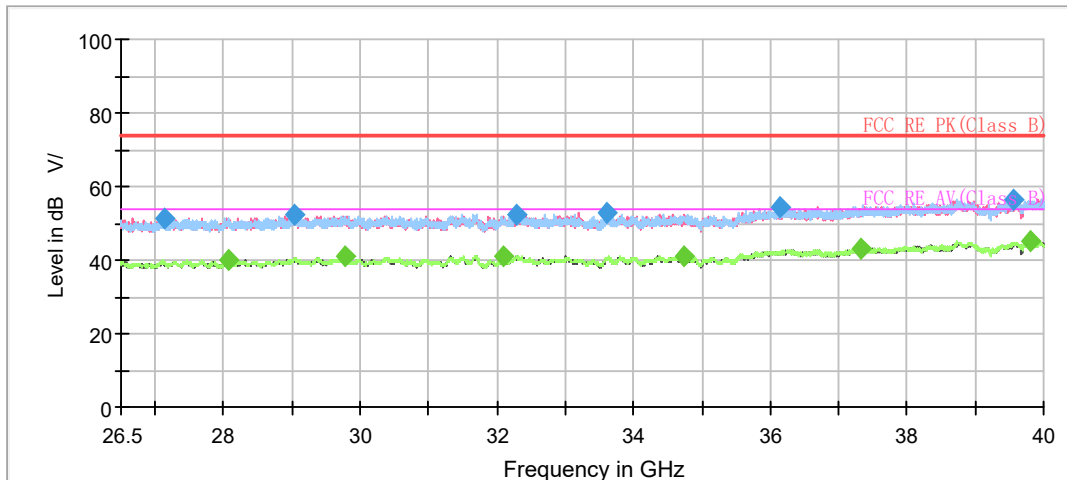
2. Margin = Limit –MAX Peak/ Average

During the test, the Radiates Emission from 18GHz to 40GHz was performed in all modes with all channels, 802.11n (HT20) CH149 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18893.562500	50.41	---	74.00	23.59	500.0	100.0	H	316.0	-4.4
19211.250000	---	37.71	54.00	16.29	500.0	100.0	H	246.0	-4.5
20093.125000	---	36.85	54.00	17.15	500.0	200.0	V	0.0	-4.5
20235.500000	49.35	---	74.00	24.65	500.0	200.0	H	170.0	-4.4
21261.875000	49.47	---	74.00	24.53	500.0	200.0	V	312.0	-4.1
21272.500000	---	37.37	54.00	16.63	500.0	200.0	H	95.0	-4.1
22269.125000	49.73	---	74.00	24.27	500.0	100.0	V	8.0	-3.3
22707.937500	---	37.90	54.00	16.10	500.0	200.0	H	207.0	-2.9
24048.812500	---	37.79	54.00	16.21	500.0	200.0	V	265.0	-2.5
24049.875000	49.70	---	74.00	24.30	500.0	200.0	H	35.0	-2.5
25772.187500	---	38.22	54.00	15.78	500.0	100.0	V	72.0	-1.3
25780.687500	49.79	---	74.00	24.21	500.0	100.0	V	127.0	-1.3



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
27121.000000	51.43	---	74.00	22.57	500.0	100.0	H	324.0	0.3
28082.875000	---	39.99	54.00	14.01	500.0	100.0	H	106.0	0.5
29046.437500	52.29	---	74.00	21.71	500.0	200.0	H	70.0	1.0
29773.750000	---	40.77	54.00	13.23	500.0	100.0	H	227.0	0.8
32087.312500	---	40.94	54.00	13.06	500.0	200.0	H	23.0	-0.4
32276.312500	52.49	---	74.00	21.51	500.0	100.0	H	287.0	-0.1
33607.750000	52.87	---	74.00	21.13	500.0	100.0	H	292.0	0.4
34743.437500	---	41.22	54.00	12.78	500.0	100.0	V	106.0	2.0
36144.062500	54.32	---	74.00	19.68	500.0	200.0	H	231.0	4.7
37340.500000	---	42.98	54.00	11.02	500.0	100.0	V	1.0	4.9
39566.312500	56.44	---	74.00	17.56	500.0	100.0	H	0.0	5.8
39799.187500	---	44.97	54.00	9.03	500.0	200.0	V	241.0	4.7

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

2. Margin = Limit-MAX Peak/ Average

5.2. Conducted Emission

Ambient condition

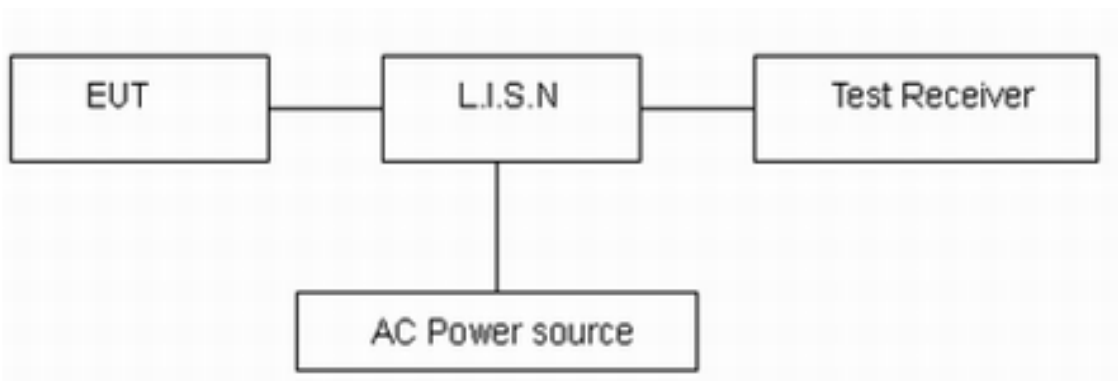
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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

The test is in transmitting mode.

Test Setup



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

Limits

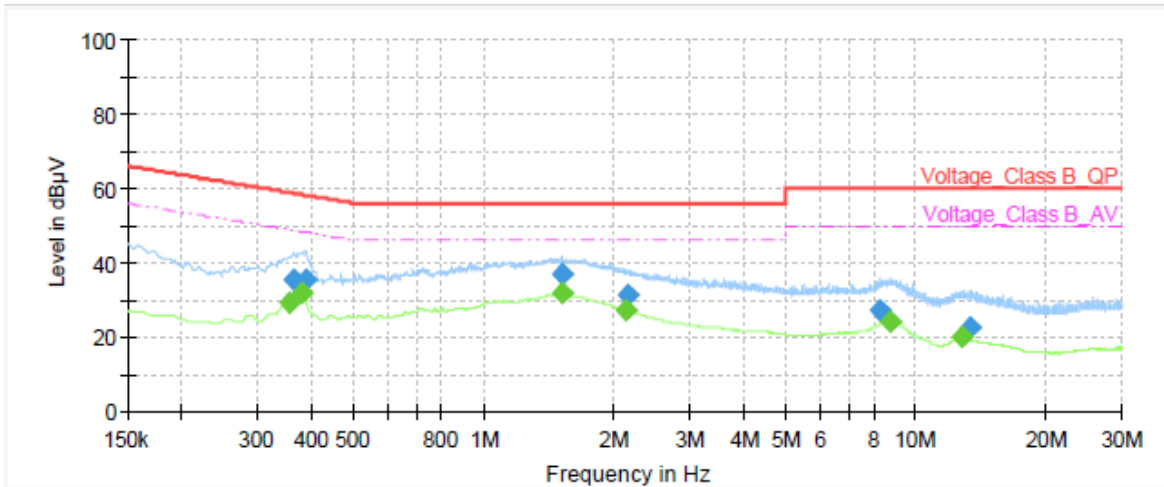
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

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

Test Results:

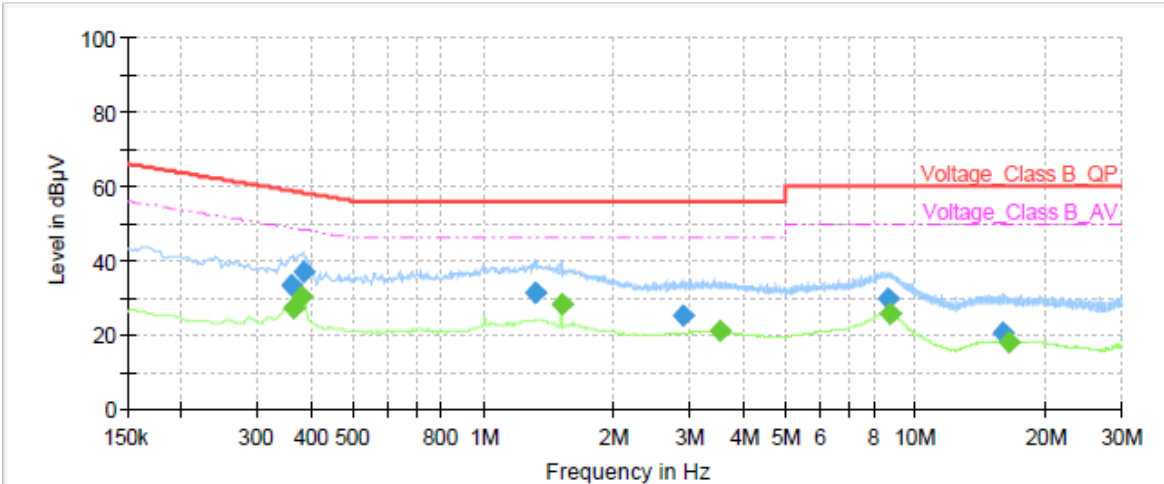
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11n (HT20) CH149 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.35	---	29.04	48.85	19.81	1000.0	9.000	L1	ON	21.0
0.36	35.54	---	58.69	23.15	1000.0	9.000	L1	ON	21.0
0.38	---	32.03	48.29	16.26	1000.0	9.000	L1	ON	21.0
0.39	35.64	---	58.14	22.50	1000.0	9.000	L1	ON	21.0
1.52	---	31.98	46.00	14.02	1000.0	9.000	L1	ON	19.9
1.52	36.83	---	56.00	19.17	1000.0	9.000	L1	ON	19.9
2.13	---	27.13	46.00	18.87	1000.0	9.000	L1	ON	19.7
2.16	31.35	---	56.00	24.65	1000.0	9.000	L1	ON	19.7
8.25	26.95	---	60.00	33.05	1000.0	9.000	L1	ON	19.5
8.72	---	24.33	50.00	25.67	1000.0	9.000	L1	ON	19.5
12.86	---	19.88	50.00	30.12	1000.0	9.000	L1	ON	19.6
13.37	22.45	---	60.00	37.55	1000.0	9.000	L1	ON	19.6

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.36	33.34	---	58.75	25.41	1000.0	9.000	N	ON	21.0
0.36	---	27.36	48.69	21.33	1000.0	9.000	N	ON	21.0
0.38	---	30.17	48.29	18.12	1000.0	9.000	N	ON	21.0
0.38	36.81	---	58.24	21.43	1000.0	9.000	N	ON	21.0
1.32	31.52	---	56.00	24.48	1000.0	9.000	N	ON	20.0
1.51	---	28.03	46.00	17.97	1000.0	9.000	N	ON	19.9
2.89	25.24	---	56.00	30.76	1000.0	9.000	N	ON	19.6
3.53	---	21.10	46.00	24.90	1000.0	9.000	N	ON	19.5
8.65	29.78	---	60.00	30.22	1000.0	9.000	N	ON	19.5
8.69	---	25.84	50.00	24.16	1000.0	9.000	N	ON	19.5
15.99	20.74	---	60.00	39.26	1000.0	9.000	N	ON	19.7
16.44	---	18.08	50.00	31.92	1000.0	9.000	N	ON	19.7

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Unwanted Emissions					
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06
EMI Test Receiver	R&S	ESR	102720	2024-05-07	2025-05-06
EMI Test Receiver	R&S	ESR	102721	2024-05-07	2025-05-06
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
Horn Antenna	R&S	BBHA9120 D	02728	2023-09-19	2026-09-18
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Horn Antenna	STEATITE	QSH-SL-26 -40-K-15	16779	2023-01-17	2026-01-16
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01614	2023-09-13	2026-09-12
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01615	2023-10-19	2026-10-18
Software	R&S	EMC32	9.26.01	/	/
Software	R&S	ELEKTRA	5.00.2	/	/
Conducted Emissions					
Artificial main network	R&S	ENV216	102191	2022-12-10	2024-12-09
EMI Test Receiver	R&S	ESR	101667	2024-05-07	2025-05-06
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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