



RF TEST REPORT

Applicant	ZTE Corporation		
FCC ID	SRQ-Z6251		
Product	LTE/WCDMA/GSM		
Product	Multi-Mode Digital MobilePhone		
Model	Z6251		
Report No. R2108A0760-R5V1			
Issue Date	October 27, 2021		

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2020)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Keng Tao

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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	October 22, 2021
Rev.1	Update information in page 87.	October 27, 2021
Note: This revised report (Report No. R2108A0760-R5V1) supersedes and replaces		
the previously issued report (Report No. R2108A0760-R5). Please discard or destroy		
the previously issued report and dispose of it accordingly.		



Number	Test Case	Clause in FCC rules	Verdict	
1	Maximum output power	15.247(b)(3)	PASS	
2	6 dB bandwidth	15.247(a)(2)	PASS	
3	Power spectral density	15.247(e)	PASS	
4	Band Edge	15.247(d)	PASS	
5	Spurious RF Conducted Emissions	15.247(d)	PASS	
6	Unwanted Emissions 15.247(d),15.205,15.209 PASS		PASS	
7	Conducted Emissions 15.207 PASS			
Date of Testing: September 2, 2021 ~ October 15, 2021				
Date of Sample Received: August 27, 2021				
Note: All indications of Pass/Fail in this report are opinions expressed by 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.				

Summary of measurement results

1. Test Laboratory

1.1. Notes of the test report

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1.2. Test facility

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

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

A2LA (Certificate Number: 3857.01)

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

1.3. Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Xu Kai
Contact: Telephone:	Xu Kai +86-021-50791141/2/3
Telephone:	+86-021-50791141/2/3



2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

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

2.2. General information

EUT Description			
Model Z6251			
IMEI	862947050003473		
Hardware Version	Z6251HW1.0		
Software Version	Z6251_CCV1.0.0B08		
Power Supply	Battery / AC adapter		
Antenna Type	Internal Antenna		
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)		
Antenna Gain	2.77dBi		
additional beamforming gain	NA		
Operating Frequency Range(s)	e(s) 802.11b/g/n(HT20): 2412 ~ 2462 MHz Bluetooth LE V5.0: 2402 ~2480 MHz		
Modulation Type	802.11b: DSSS 802.11g/n(HT20): OFDM Bluetooth LE: GFSK		
Max. Conducted Power Wi-Fi 2.4G: 18.79dBm Bluetooth LE: 7.02 dBm			
	EUT Accessory		
Adapter 1 Manufacturer: Jiangsu Chenyang Electron Co., Ltd. Model: STC-A520A-Z			
Adapter 2	Manufacturer: Shenzhen Ruijing Industrial Co Ltd Model: STC-A520A-Z		
Battery	Manufacturer: SCUD (Fujian) Electronics Co., LTD. Model: Li3839T44P8h866445		
USB Cable 1	Manufacturer: kingpower-tech		

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RF Test Report	Report No.: R2108A0760-R5V1	
	Model: USB-TC20-W-100-M-L	
	100cm Cable, Shielded	
	Manufacturer: Shenzhen Luxshare Precision Industry Co.,Ltd.	
USB Cable 2	Model: USB-TC20-W-100-M-L	
	100cm Cable, Shielded	
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by		
the applicant.		
2. There are more than one Adapter and USB Cable, each one should be applied throughout the		
compliance test respectively, however, only the worst case (Adapter 2 and USB Cable 2) will be		

recorded in this report.



3. Applied Standards

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

Test standards:

FCC CFR47 Part 15C (2020) Radio Frequency Devices

ANSI C63.10 (2013)

Reference standard: KDB 558074 D01 15.247 Meas Guidance v05r02

4. Test Configuration

Test Mode

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

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

Test Mode	Data Rate	
Plustoath(Law Eporgy)	1Mbps,	
Bluetooth(Low Energy)	2Mbps	
802.11b	1 Mbps	
802.11g	6 Mbps	
802.11n HT20	MCS0	



5. Test Case Results

5.1. Maximum output power

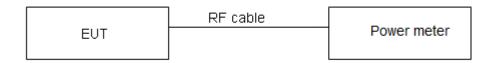
Ambient condition

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

Methods of Measurement

During the process of the testing, The EUT was connected to Power meter with a known loss. The EUT is max power transmission with proper modulation.

Test Setup



Limits

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



Measurement Uncertainty

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



Test Results

Power Index						
Channel 802.11b 802.11g 802.11n HT20						
CH1	19.0	16.0	15.5			
CH6	19.0	16.0	15.5			
CH11	19.0	16.0	15.5			

Test Mode	T _{on} (ms)	T _(on+off) (ms)	Duty cycle	Duty cycle correction Factor(dB)
802.11b	1.00	1.00	1.00	NA
802.11g	1.39	1.44	0.97	0.15
802.11n HT20	1.30	1.34	0.97	0.13
Bluetooth LE (1M)	2.12	2.50	0.850	0.708
Bluetooth LE (2M)	1.07	1.87	0.573	2.421
Note: when Duty cycle \geq 0.98, Duty cycle correction Factor not required.				



Test Mode	Carrier frequency (MHz))/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion	
	2412/CH 1	18.55	18.55	30	PASS	
802.11b	2437/CH 6	18.79	18.79	30	PASS	
	2462/CH11	18.74	18.74	30	PASS	
	2412/CH 1	15.37	15.51	30	PASS	
802.11g	2437/CH 6	15.60	15.75	30	PASS	
	2462/CH11	15.61	15.76	30	PASS	
	2412/CH 1	14.80	14.93	30	PASS	
802.11n HT20	2437/CH 6	15.01	15.14	30	PASS	
11120	2462/CH11	15.00	15.13	30	PASS	
Bluetooth	2402/CH0	4.73	5.44	30	PASS	
(Low Energy)	2440/CH19	6.31	7.02	30	PASS	
(1M)	2480/CH39	5.18	5.89	30	PASS	
Bluetooth	2402/CH0	3.11	5.53	30	PASS	
(Low Energy)	2440/CH19	4.55	6.97	30	PASS	
(2M)	2480/CH39	3.30	5.72	30	PASS	
Note: Average F	Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					



5.2. 99% Bandwidth and 6dB Bandwidth

Ambient condition

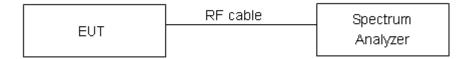
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer. Dector=Peak, Trace mode=max hold.

The EUT was connected to the spectrum analyzer through a known loss cable. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.

Test Setup



Limits

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

minimum 6 dB bandwidth	≥ 500 kHz
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Measurement Uncertainty

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

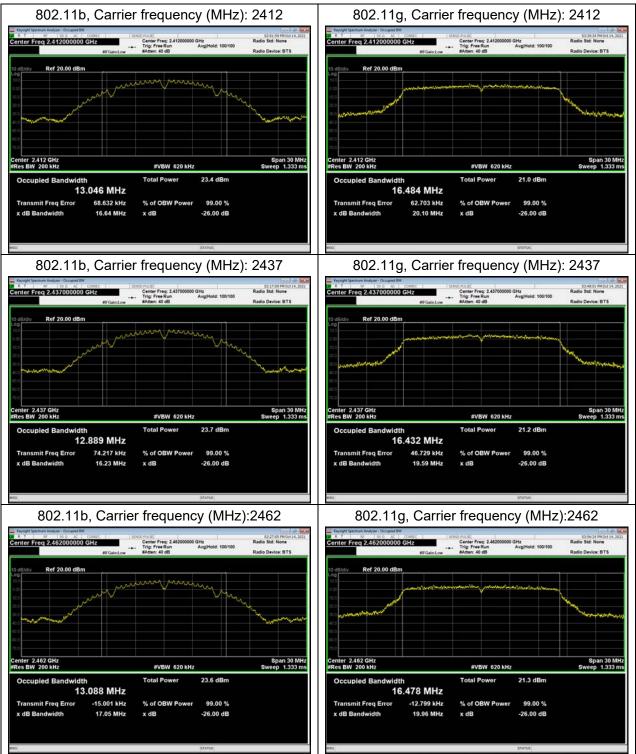


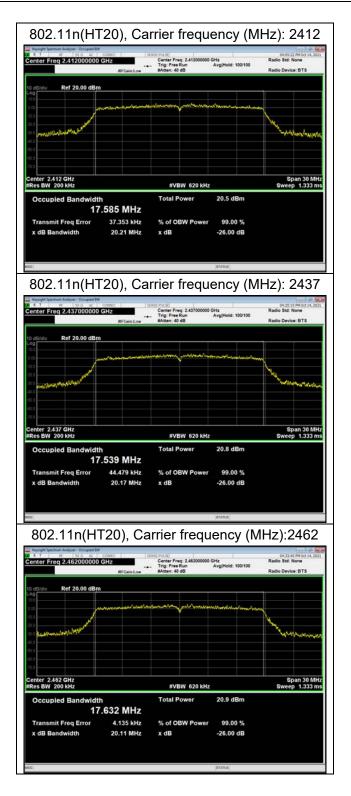
Test Results:

Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
	2412	13.046	7.112	500	PASS
802.11b	2437	12.889	8.083	500	PASS
	2462	13.088	8.549	500	PASS
	2412	16.484	15.014	500	PASS
802.11g	2437	16.432	15.095	500	PASS
	2462	16.478	15.016	500	PASS
	2412	17.585	15.691	500	PASS
802.11n HT20	2437	17.539	15.079	500	PASS
	2462	17.632	15.943	500	PASS
Bluetooth	2402	1.034	0.680	500	PASS
(Low Energy)	2440	1.027	0.676	500	PASS
(1M)	2480	1.029	0.663	500	PASS
Bluetooth	2402	2.049	1.134	500	PASS
(Low Energy)	2440	2.057	1.126	500	PASS
(2M)	2480	2.042	1.244	500	PASS

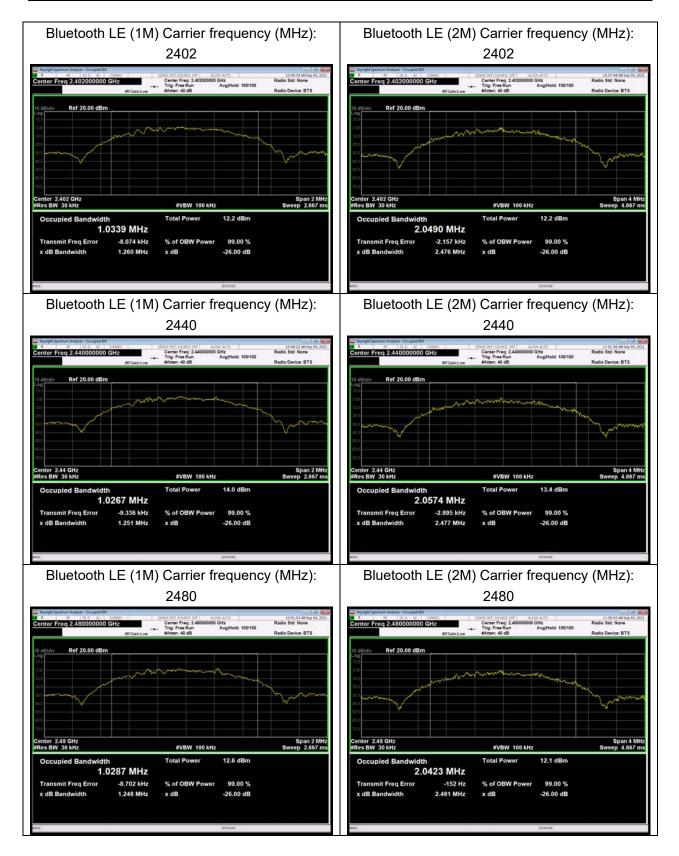


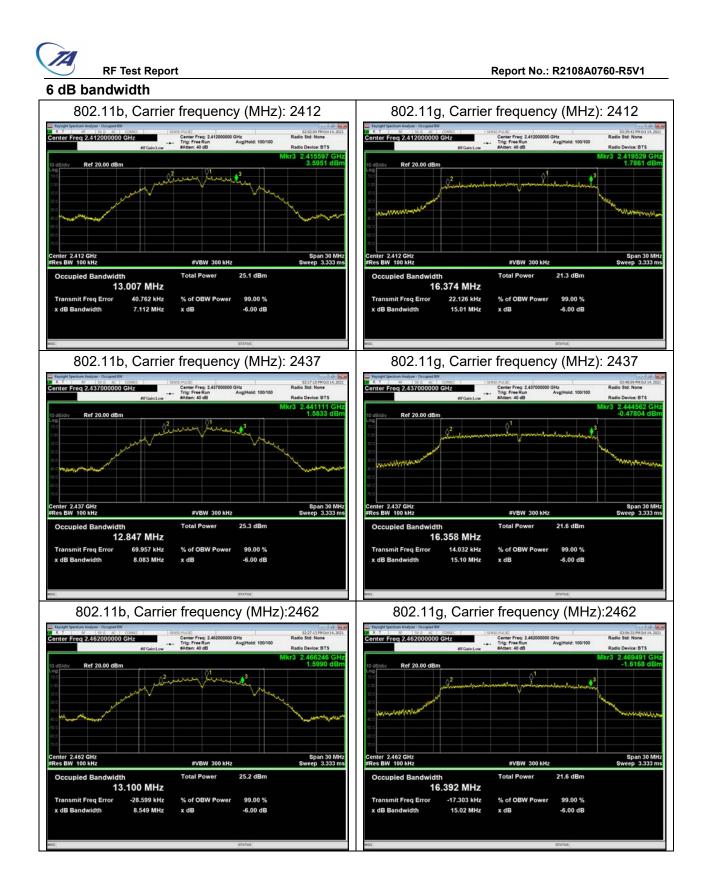
99%bandwidth

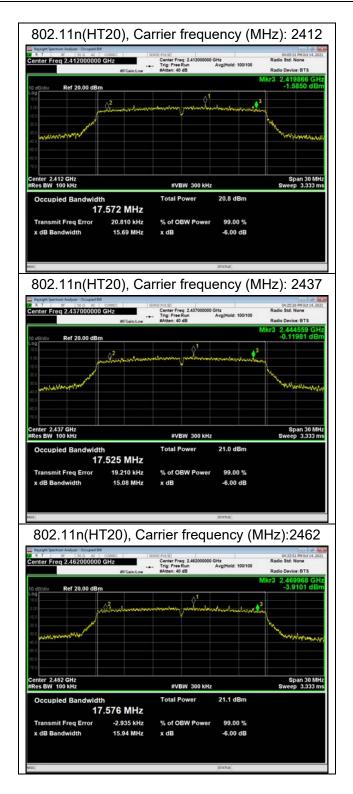


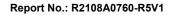




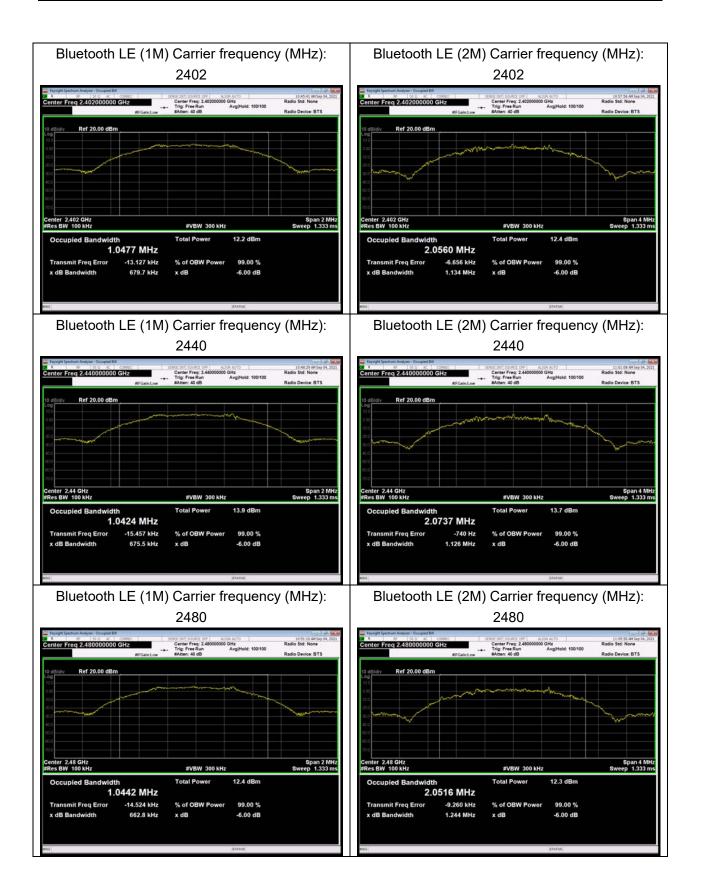














5.3. Band Edge

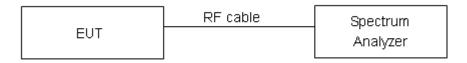
Ambient condition

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

Method of Measurement

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

Test Setup



Limits

Rule Part 15.247(d) specifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits." If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB."

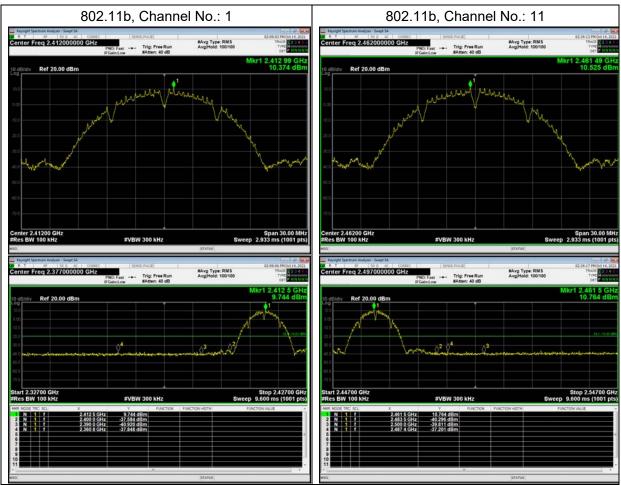
Measurement Uncertainty

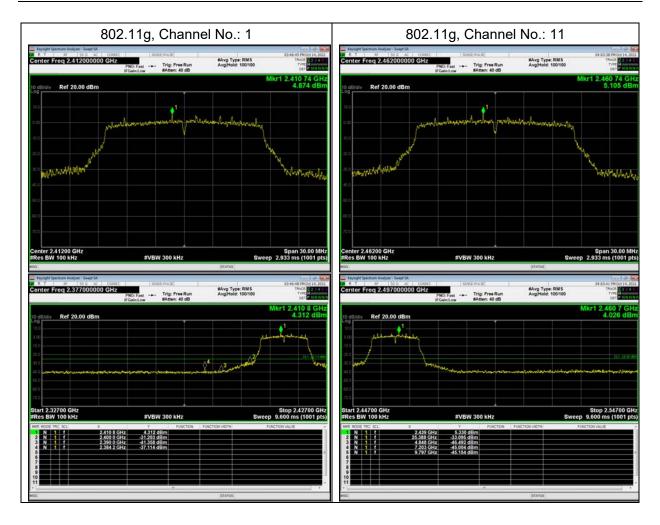
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

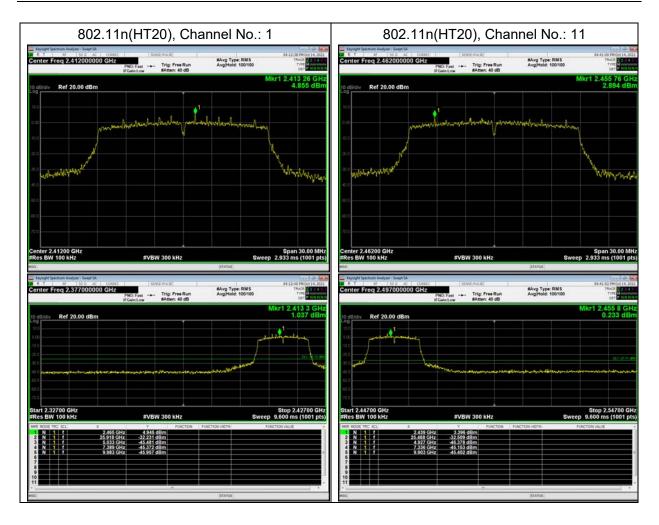
Frequency	Uncertainty	
2GHz-3GHz	1.407 dB	

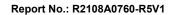
Report No.: R2108A0760-R5V1

Test Results: PASS



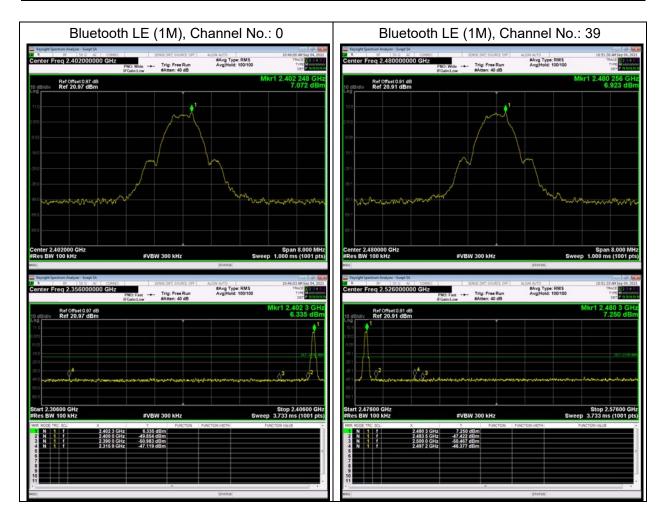


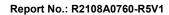






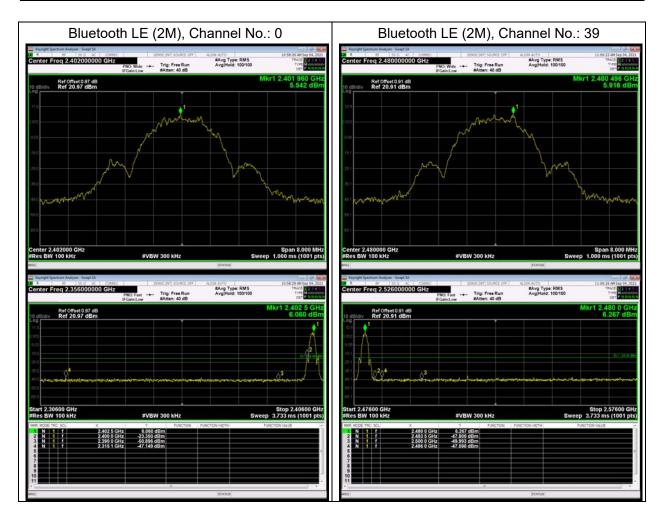














5.4. Power Spectral Density

Ambient condition

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

Method of Measurement

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss.

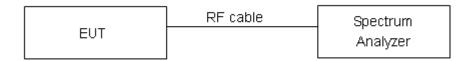
The EUT is max power transmission with proper modulation.

Method AVGPSD-1 was used for this test.

- a) Set instrument center frequency to DTS channel center frequency
- b) Set span to at least 1.5 times the OBW
- c) Set RBW to:3kHz≤RBW≤100kHz
- d) Set VBW≥[3x RBW]
- e) Detector=power averaging(rms) or sample detector(when rms not available)
- f) Ensure that the number of measurement points in the sweep 2[2 X span/RBWT]
- g)Sweep time auto couple
- h) Employ trace averaging(rms) mode over a minimum of 100 traces
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and

repeat(note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

Test setup



Limits

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

Limits	≤ 8 dBm / 3kHz
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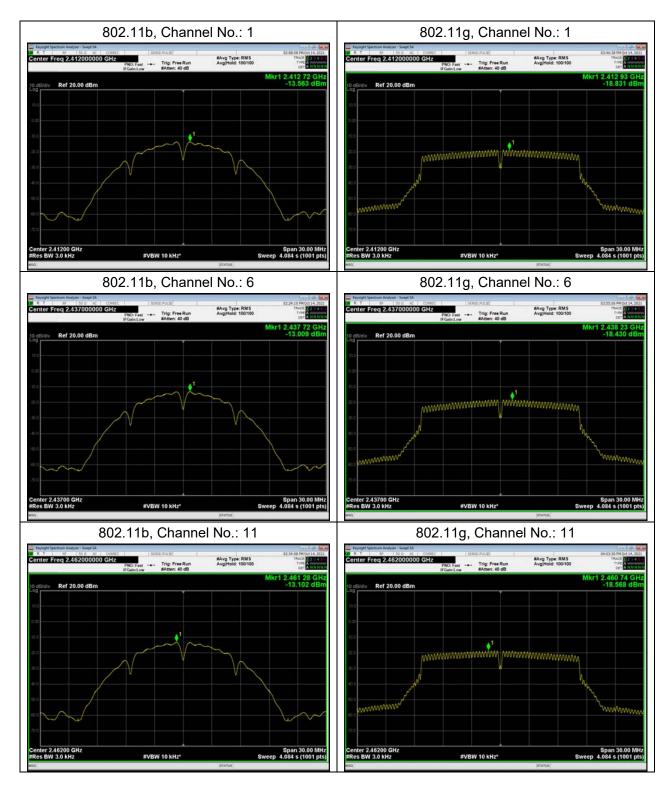
Measurement Uncertainty

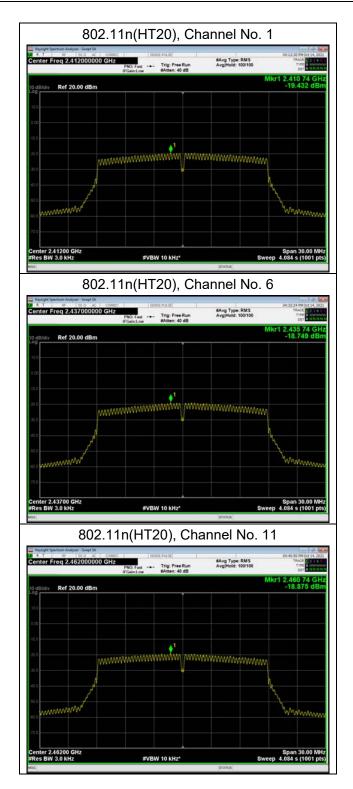
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.75dB.

Taat	Results:	
Test	Results.	
	1.0001101	

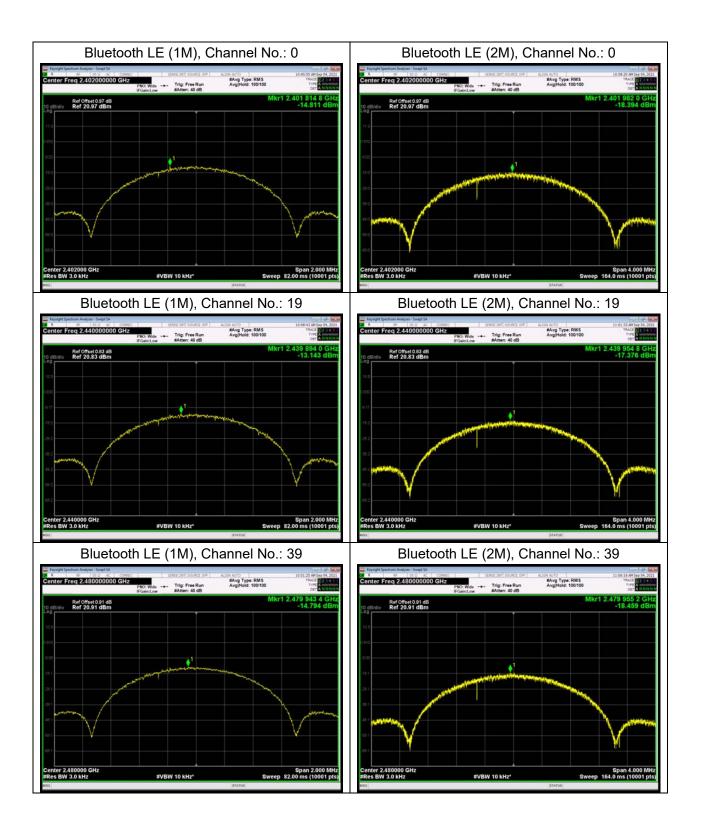
Test Mode	Channel Number	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
	1	-13.56	-13.56	8	PASS
802.11b	6	-13.01	-13.01	8	PASS
	11	-13.10	-13.10	8	PASS
	1	-18.83	-18.68	8	PASS
802.11g	6	-18.43	-18.28	8	PASS
	11	-18.57	-18.42	8	PASS
802.11n HT20	1	-19.43	-19.30	8	PASS
	6	-18.75	-18.62	8	PASS
	11	-18.88	-18.75	8	PASS
Bluetooth	0	-14.81	-14.10	8	PASS
(Low Energy)	19	-13.14	-12.43	8	PASS
(1M)	39	-14.79	-14.10	8	PASS
Bluetooth	0	-18.39	-15.97	8	PASS
(Low Energy) (2M)	19	-17.38	-14.96	8	PASS
	39	-18.46	-16.04	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					













5.5. Spurious RF Conducted Emissions

Ambient condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) pacifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB."

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
	2412	10.15	-19.85
802.11b	2437	10.56	-19.44
	2462	10.60	-19.40
	2412	4.19	-25.81
802.11g	2437	5.01	-24.99
	2462	4.91	-25.09
000.11=	2412	4.98	-25.02
802.11n HT20	2437	4.35	-25.65
HTZU	2462	3.88	-26.12
Bluetooth	2402	6.68	-23.32
(Low Energy)	2440	8.43	-21.57
(1M)	2480	6.70	-23.30

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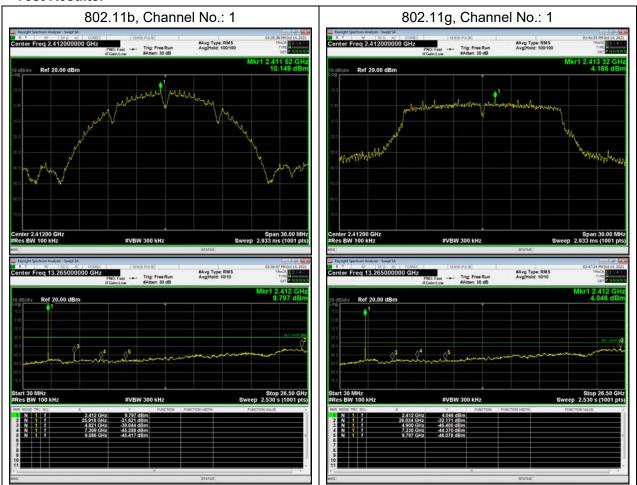
	Bluetooth	2402	6.46	-23.54	
	(Low Energy)	2440	7.77	-22.23	
	(2M)	2480	6.49	-23.51	

Measurement Uncertainty

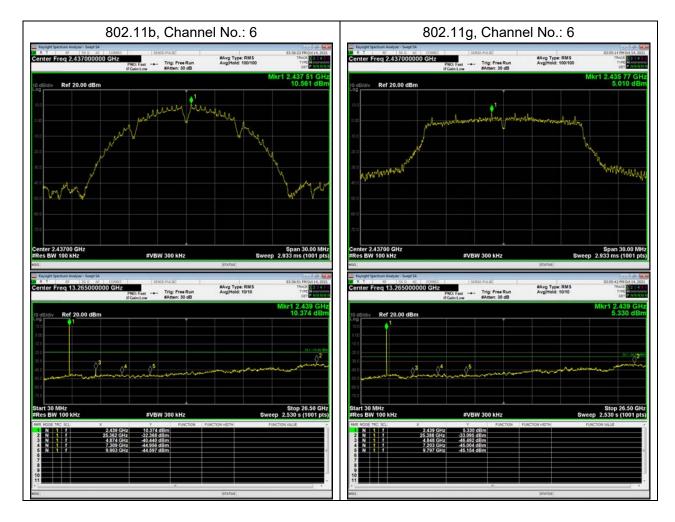
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

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

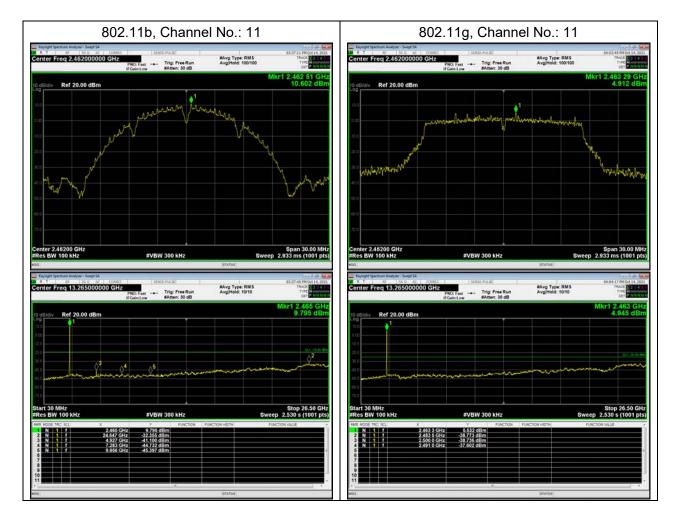
Test Results:



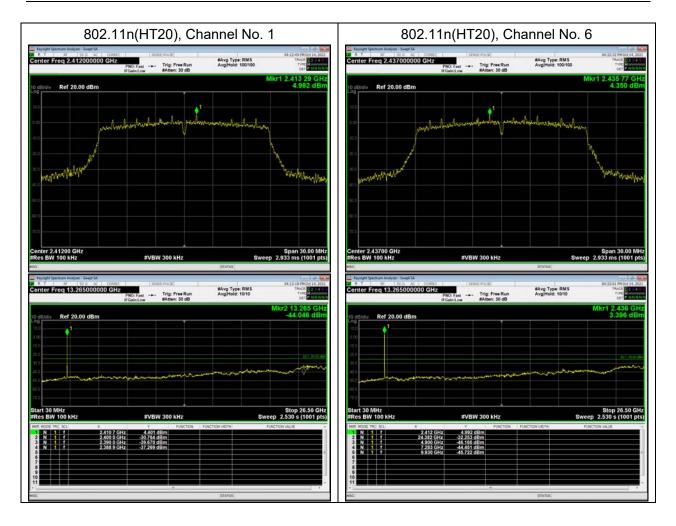




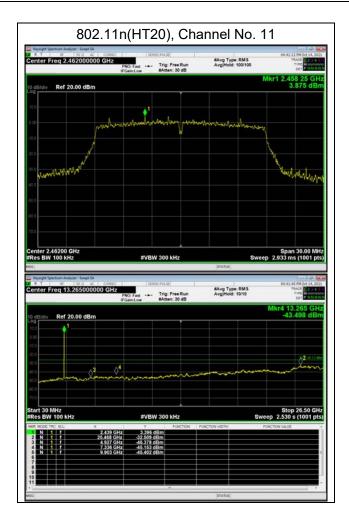




RF Test Report

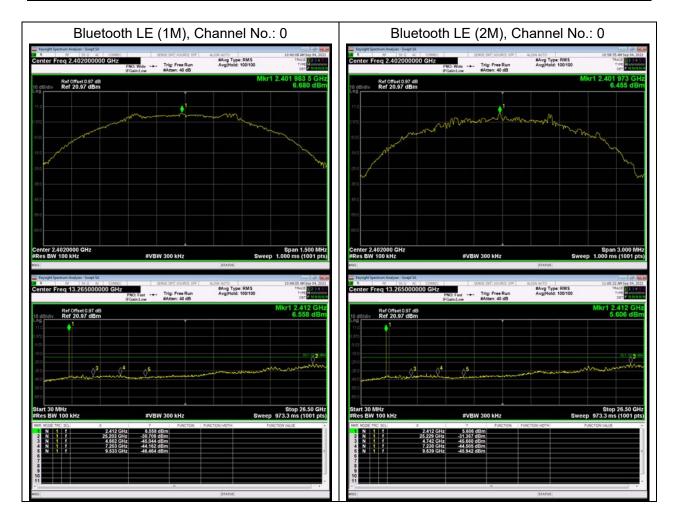


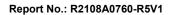




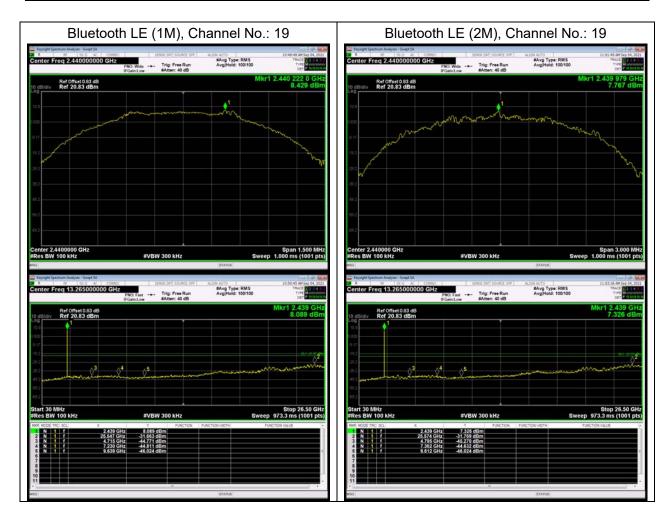


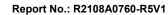




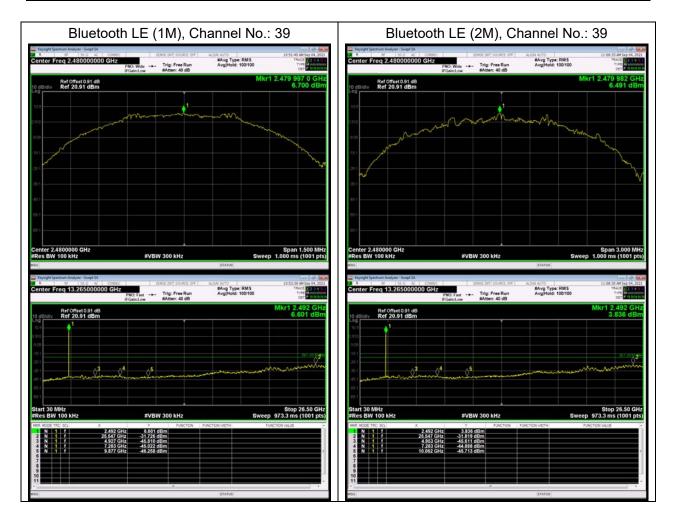














5.6. Unwanted Emission

Ambient condition

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

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration.

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

This method refer to ANSI C63.10. The procedure for peak unwanted emissions measurements above 1000 MHz is as follows: 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.

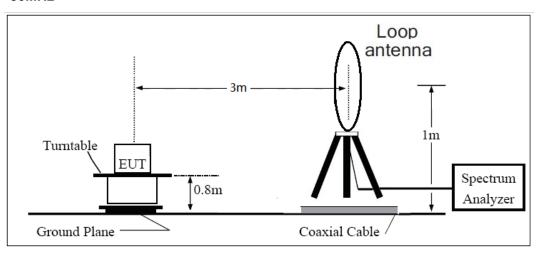
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

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.

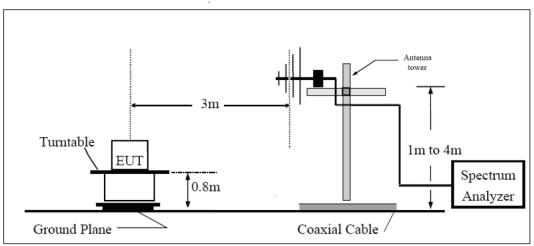
The test is in transmitting mode.



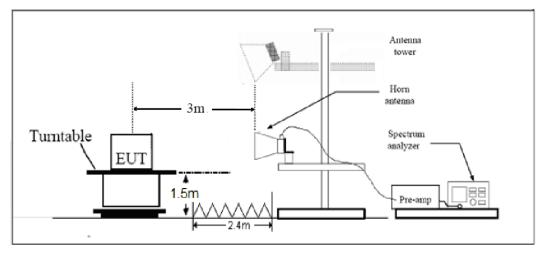
Test setup 9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m



Limits

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

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	1
0.490–1.705	24000/F(kHz)	1
1.705–30.0	30	1
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

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

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

RF Test Report

Measurement Uncertainty

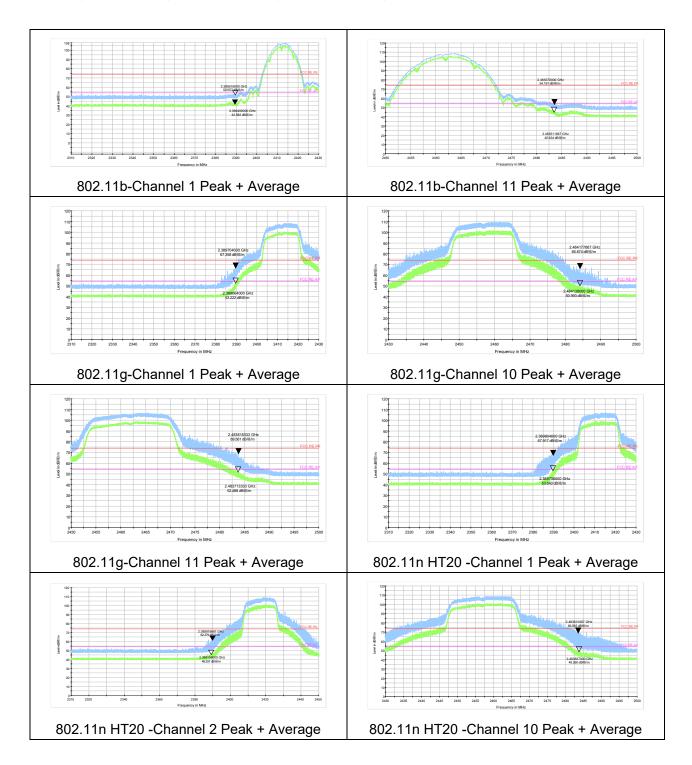
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

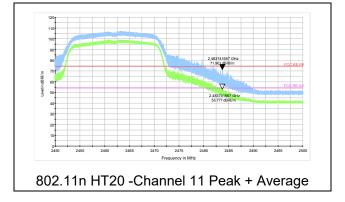


Test Results:

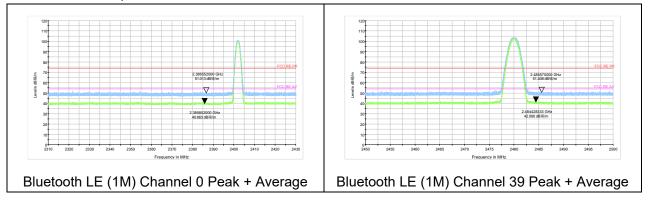
A font ($^{\text{Level in dB}\Bar{m}\Ba$







Bluetooth LE (1M) was selected as the worst condition. The test data of the worst-case condition was recorded in this report.





Result of RE

Test result

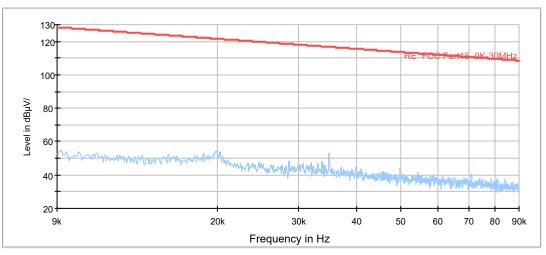
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

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

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

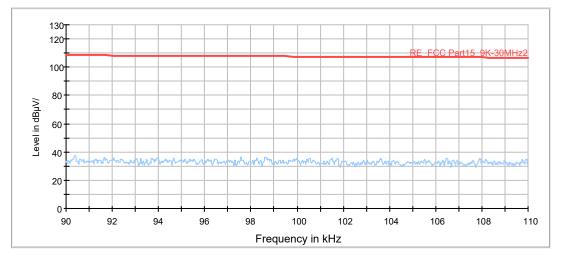
A font (Level in dB μ V/) in the test plot =(level in dB μ V/m)

Continuous TX mode:

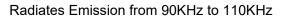


FCC RE 9K-90KHz AV

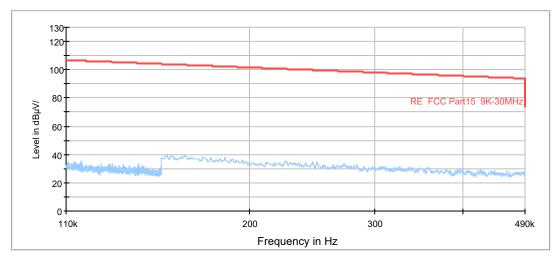
Radiates Emission from 9KHz to 90KHz



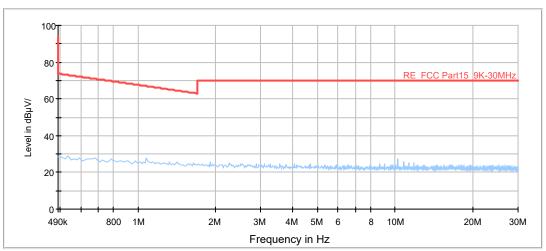
FCC RE 90K-110KHz QP



FCC RE 110K-490KHz AV



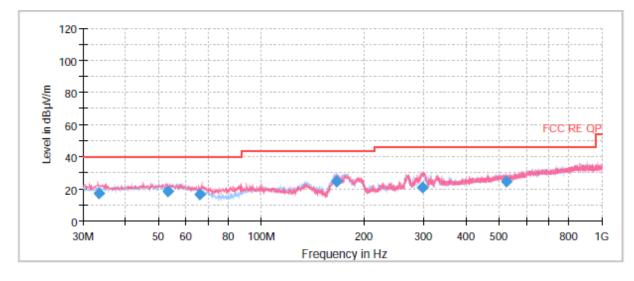
Radiates Emission from 110KHz to 490KHz



FCC RE 490K-30MHz QP

Radiates Emission from 490KHz to 30MHz

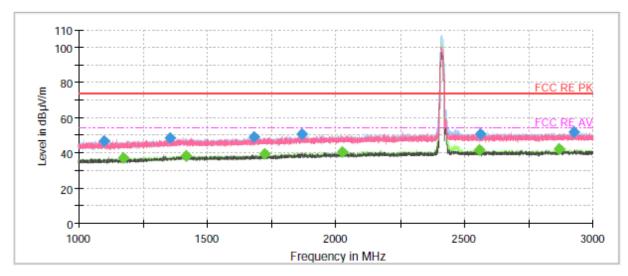




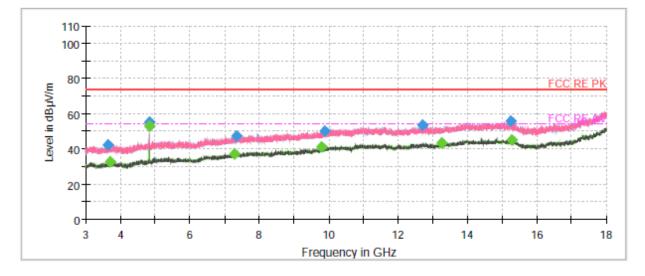
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
33.353750	17.52	221.0	V	202.0	12	22.48	40.00
53.088750	18.72	180.0	V	318.0	13	21.28	40.00
65.938750	16.70	225.0	V	289.0	12	23.30	40.00
166.655000	24.49	190.0	Н	274.0	10	19.01	43.50
297.973750	20.73	100.0	V	86.0	15	25.27	46.00
525.705000	24.74	105.0	V	132.0	20	21.26	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain) 2. Margin = Limit – Quasi-Peak RF Test Report 802.11b CH1



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

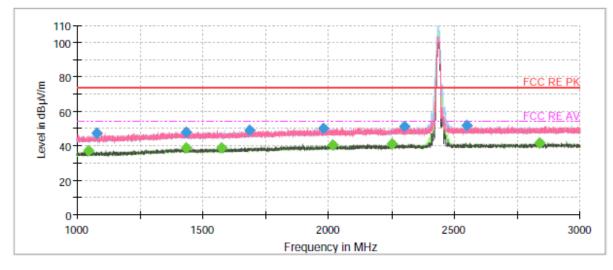


Radiates Emission from 3GHz to 18GHz

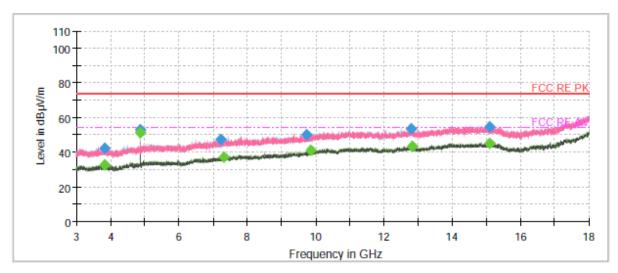


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1100.333333	47.08		74.00	26.92	100.0	V	0.0	-9
1175.333333		37.06	54.00	16.94	100.0	Н	357.0	-9
1355.666667	48.32		74.00	25.68	200.0	Н	99.0	-7
1415.533333		38.54	54.00	15.46	200.0	Н	2.0	-7
1682.466667	49.06		74.00	24.94	100.0	Н	0.0	-6
1723.733333		39.40	54.00	14.60	100.0	Н	294.0	-6
1866.600000	50.70		74.00	23.30	100.0	Н	325.0	-5
2024.200000		40.59	54.00	13.41	100.0	Н	12.0	-5
2559.000000		41.47	54.00	12.53	200.0	Н	164.0	-4
2562.133333	51.00		74.00	23.00	100.0	V	10.0	-4
2868.933333		42.06	54.00	11.94	100.0	Н	351.0	-3
2927.266667	51.69		74.00	22.31	100.0	Н	98.0	-3
4824.000000		53.30	54.00	0.70	100.0	Н	338.0	-9

RF Test Report 802.11b CH6



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

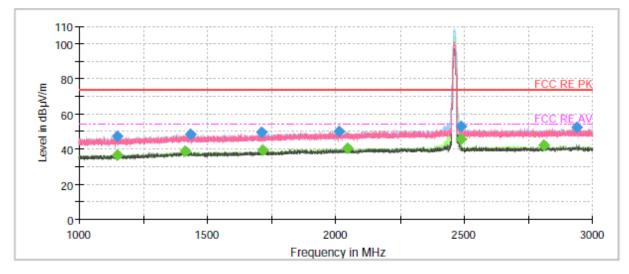


Radiates Emission from 3GHz to 18GHz

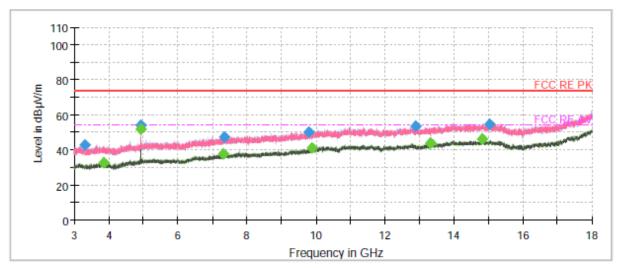


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1044.733333		37.01	54.00	16.99	100.0	Н	293.0	-10
1080.266667	47.22		74.00	26.78	100.0	V	3.0	-9
1434.133333		38.81	54.00	15.19	100.0	V	37.0	-7
1435.266667	48.20		74.00	25.80	200.0	Н	1.0	-7
1573.933333		39.15	54.00	14.85	200.0	Н	168.0	-6
1685.800000	49.35		74.00	24.65	200.0	V	347.0	-6
1978.133333	50.12		74.00	23.88	200.0	Н	11.0	-5
2017.600000		40.72	54.00	13.28	100.0	V	6.0	-5
2250.866667		41.02	54.00	12.98	100.0	V	16.0	-4
2301.666667	51.17		74.00	22.83	100.0	V	147.0	-4
2547.666667	52.18		74.00	21.82	100.0	V	6.0	-4
2838.133333		41.71	54.00	12.29	200.0	Н	141.0	-3
4874.000000		51.26	54.00	2.74	100.0	Н	323.0	-9





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

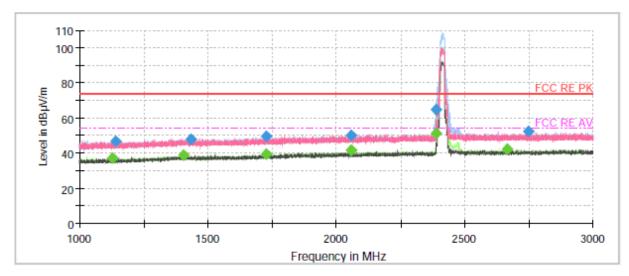


Radiates Emission from 3GHz to 18GHz

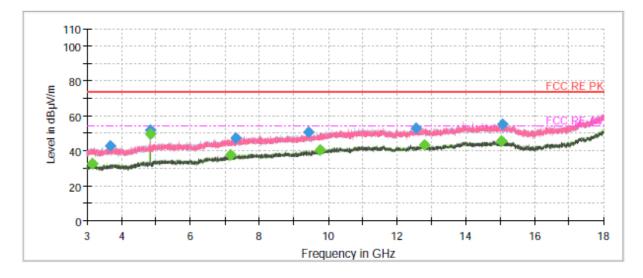


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1147.666667	47.53		74.00	26.47	200.0	V	359.0	-9
1149.133333		36.90	54.00	17.10	100.0	Н	0.0	-9
1413.666667		38.69	54.00	15.31	100.0	Н	98.0	-7
1435.200000	48.51		74.00	25.49	100.0	V	160.0	-7
1709.733333	49.44		74.00	24.56	200.0	Н	128.0	-6
1715.000000		39.32	54.00	14.68	200.0	Н	149.0	-6
2013.733333	50.47		74.00	23.53	200.0	Н	284.0	-5
2044.666667		40.43	54.00	13.57	200.0	Н	63.0	-5
2486.800000		45.63	54.00	8.37	100.0	Н	188.0	-4
2487.200000	53.22		74.00	20.78	200.0	Н	83.0	-4
2807.866667		42.11	54.00	11.89	200.0	V	96.0	-3
2937.866667	52.47		74.00	21.53	200.0	Н	106.0	-3
4924.000000		51.92	54.00	2.08	100.0	Н	336.0	-8

RF Test Report 802.11g CH1



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

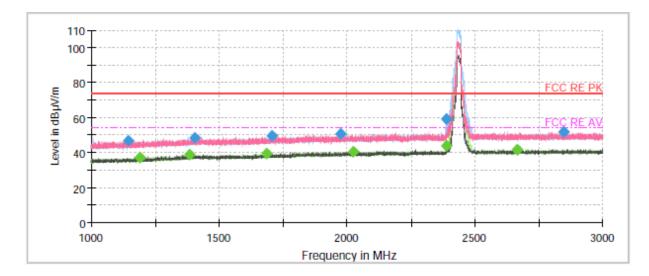


Radiates Emission from 3GHz to 18GHz

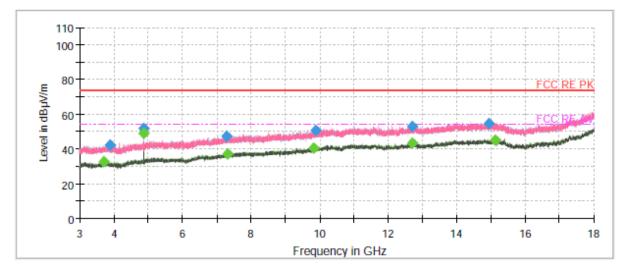


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1129.666667		37.13	54.00	16.87	100.0	V	22.0	-9
1139.200000	46.87		74.00	27.13	100.0	Н	99.0	-9
1406.400000		38.97	54.00	15.03	200.0	V	187.0	-7
1432.933333	48.22		74.00	25.78	200.0	Н	171.0	-7
1725.866667	49.56		74.00	24.44	200.0	Н	33.0	-6
1729.133333		39.57	54.00	14.43	200.0	V	112.0	-6
2058.200000	50.33		74.00	23.67	200.0	Н	14.0	-5
2058.666667		41.48	54.00	12.52	200.0	Н	5.0	-5
2389.533333	64.91		74.00	9.09	100.0	Н	121.0	-4
2390.000000		51.60	54.00	2.40	200.0	Н	216.0	-4
2667.266667		42.23	54.00	11.77	200.0	Н	47.0	-3
2748.266667	52.55		74.00	21.45	100.0	Н	337.0	-4





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

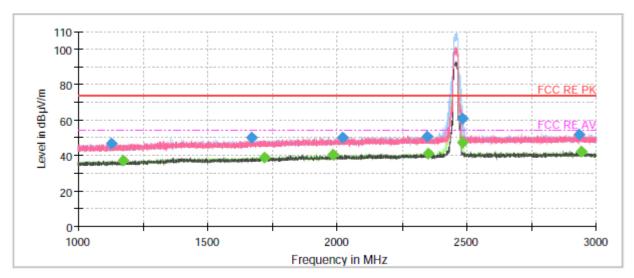


Radiates Emission from 3GHz to 18GHz

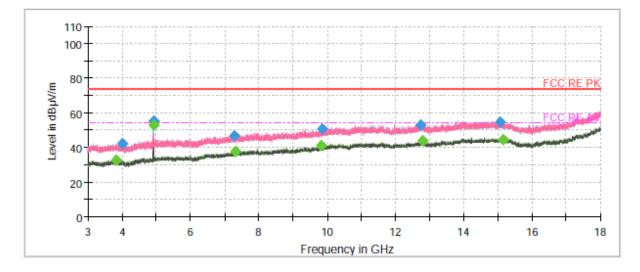


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1143.266667	46.86		74.00	27.14	200.0	V	51.0	-9
1190.866667		36.95	54.00	17.05	100.0	V	286.0	-9
1382.333333		39.01	54.00	14.99	100.0	Н	88.0	-7
1404.133333	48.31		74.00	25.69	100.0	Н	101.0	-7
1686.533333		39.41	54.00	14.59	200.0	Н	354.0	-6
1707.600000	49.46		74.00	24.54	100.0	V	136.0	-6
1976.866667	50.67		74.00	23.33	100.0	Н	204.0	-5
2022.800000		40.52	54.00	13.48	100.0	V	272.0	-5
2389.000000	59.06		74.00	14.94	200.0	Н	342.0	-4
2389.266667		44.22	54.00	9.78	100.0	Н	191.0	-4
2665.466667		41.87	54.00	12.13	100.0	V	356.0	-3
2848.400000	52.04		74.00	21.96	200.0	V	0.0	-3

RF Test Report 802.11g CH10



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

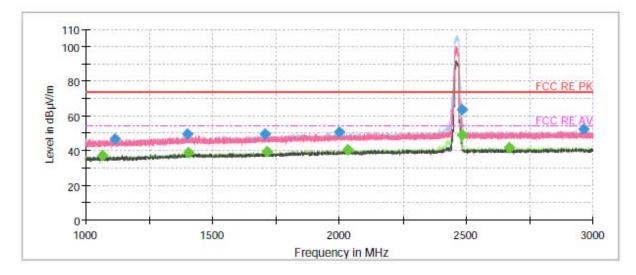


Radiates Emission from 3GHz to 18GHz

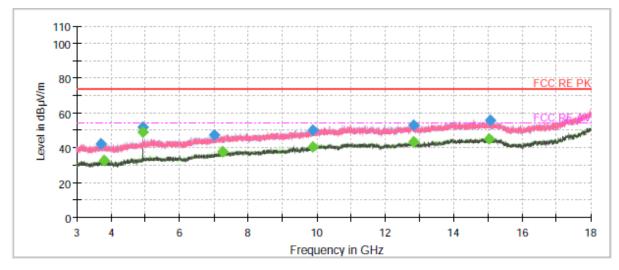


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1128.800000	46.79		74.00	27.21	100.0	Н	0.0	-9
1175.066667		37.17	54.00	16.83	200.0	Н	149.0	-9
1669.666667	50.36		74.00	23.64	100.0	V	45.0	-6
1717.333333		39.09	54.00	14.91	200.0	Н	260.0	-6
1981.866667		40.63	54.00	13.37	100.0	Н	331.0	-5
2020.266667	50.43		74.00	23.57	200.0	V	179.0	-5
2346.066667	50.79		74.00	23.21	100.0	Н	353.0	-4
2349.533333		40.93	54.00	13.07	100.0	Н	0.0	-4
2484.666667		47.26	54.00	6.74	200.0	Н	194.0	-4
2485.066667	60.81		74.00	13.19	200.0	Н	194.0	-4
2934.466667	51.94		74.00	22.06	100.0	V	2.0	-3
2942.933333		42.09	54.00	11.91	100.0	V	21.0	-3
4914.000000		53.20	54.00	0.80	100.0	Н	334.0	-8

RF Test Report 802.11g CH11



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

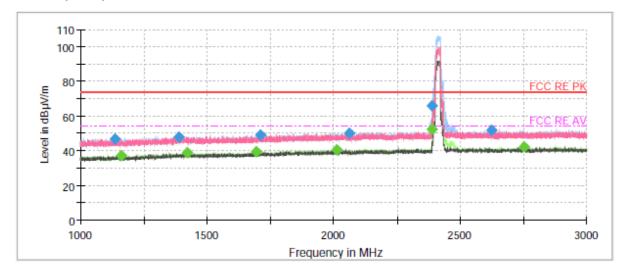


Radiates Emission from 3GHz to 18GHz

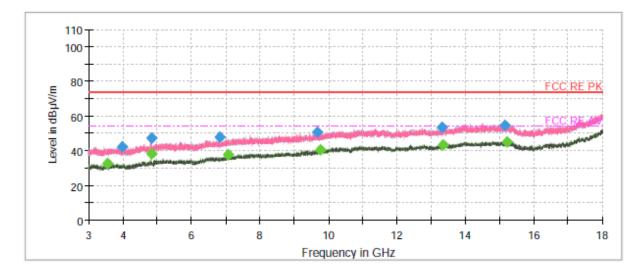


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1066.666667		37.39	54.00	16.61	100.0	Н	166.0	-9
1113.800000	46.88		74.00	27.12	100.0	Н	357.0	-9
1400.666667	49.62		74.00	24.38	100.0	Н	345.0	-7
1406.066667		39.04	54.00	14.96	100.0	V	70.0	-7
1705.733333	49.41		74.00	24.59	100.0	Н	345.0	-6
1714.866667		39.38	54.00	14.62	100.0	V	6.0	-6
1998.466667	50.85		74.00	23.15	200.0	Н	302.0	-5
2031.666667		40.82	54.00	13.18	200.0	Н	75.0	-5
2483.866667		49.12	54.00	4.88	100.0	Н	188.0	-4
2484.866667	63.67		74.00	10.33	200.0	Н	208.0	-4
2670.800000		41.97	54.00	12.03	100.0	Н	210.0	-3
2961.400000	52.66		74.00	21.34	100.0	Н	351.0	-3

RF Test Report 802.11n (HT20) CH1



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

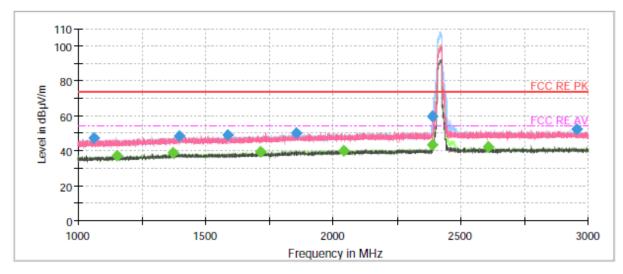


Radiates Emission from 3GHz to 18GHz

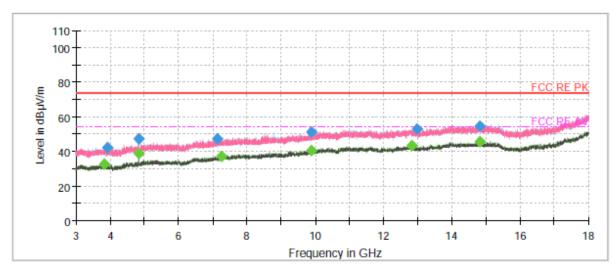


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1136.800000	47.00		74.00	27.00	100.0	Н	142.0	-9
1159.666667		37.26	54.00	16.74	200.0	Н	105.0	-9
1387.200000	48.20		74.00	25.80	200.0	Н	33.0	-7
1422.400000		39.09	54.00	14.91	100.0	Н	1.0	-7
1695.600000		39.53	54.00	14.47	200.0	Н	9.0	-6
1709.466667	49.33		74.00	24.67	100.0	V	42.0	-6
2014.000000		40.56	54.00	13.44	100.0	Н	50.0	-5
2063.200000	50.32		74.00	23.68	200.0	Н	5.0	-5
2389.733333		52.51	54.00	1.49	200.0	Н	193.0	-4
2389.866667	65.85		74.00	8.15	100.0	Н	232.0	-4
2625.466667	51.97		74.00	22.03	100.0	V	4.0	-4
2752.066667		42.17	54.00	11.83	200.0	Н	285.0	-4

RF Test Report 802.11n (HT20) CH2



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

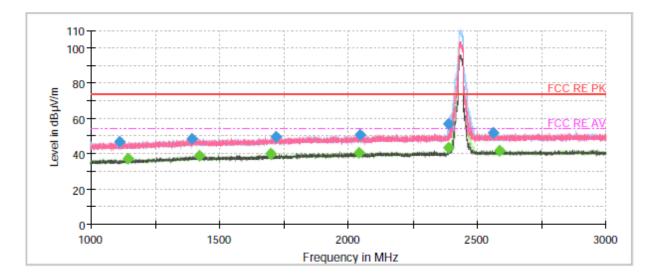


Radiates Emission from 3GHz to 18GHz

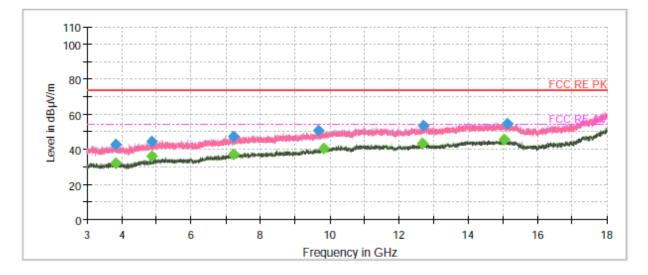


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1062.466667	47.18		74.00	26.82	200.0	Н	238.0	-9
1152.466667		37.36	54.00	16.64	100.0	V	2.0	-9
1371.600000		38.71	54.00	15.29	200.0	Н	73.0	-7
1397.933333	48.76		74.00	25.24	100.0	V	270.0	-7
1587.666667	49.32		74.00	24.68	100.0	Н	29.0	-6
1714.800000		39.34	54.00	14.66	100.0	Н	234.0	-6
1856.066667	50.23		74.00	23.77	100.0	Н	338.0	-5
2041.933333		40.32	54.00	13.68	100.0	Н	355.0	-5
2389.800000	59.96		74.00	14.04	200.0	Н	191.0	-4
2389.800000		43.68	54.00	10.32	200.0	Н	191.0	-4
2605.600000		42.40	54.00	11.60	100.0	V	154.0	-4
2955.800000	52.28		74.00	21.72	100.0	Н	277.0	-3

RF Test Report 802.11n (HT20) CH6



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

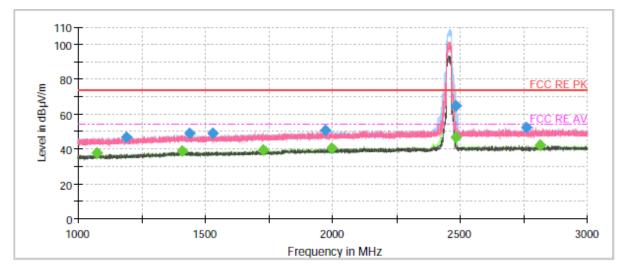


Radiates Emission from 3GHz to 18GHz

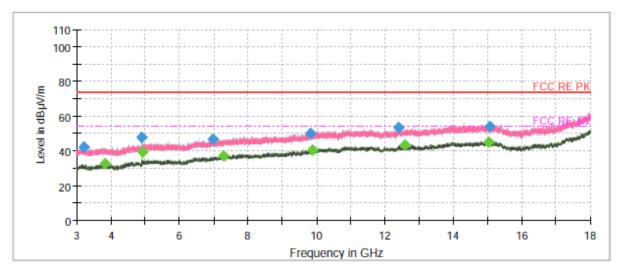


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1113.533333	46.72		74.00	27.28	200.0	V	152.0	-9
1144.866667		37.28	54.00	16.72	100.0	Н	304.0	-9
1392.333333	48.56		74.00	25.44	200.0	V	8.0	-7
1422.400000		38.78	54.00	15.22	100.0	Н	144.0	-7
1698.533333		39.78	54.00	14.22	200.0	V	69.0	-6
1717.533333	49.38		74.00	24.62	100.0	V	0.0	-6
2039.933333		40.69	54.00	13.31	100.0	V	318.0	-5
2044.266667	50.76		74.00	23.24	200.0	Н	137.0	-5
2388.600000	56.94		74.00	17.06	100.0	Н	197.0	-4
2388.733333		43.28	54.00	10.72	100.0	Н	317.0	-4
2561.066667	52.10		74.00	21.90	100.0	V	213.0	-4
2585.066667		41.59	54.00	12.41	200.0	V	56.0	-4

RF Test Report 802.11n (HT20) CH10



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

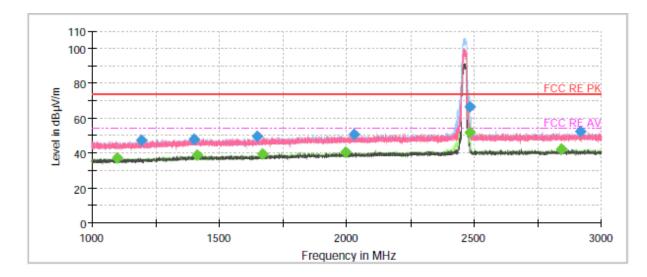


Radiates Emission from 3GHz to 18GHz

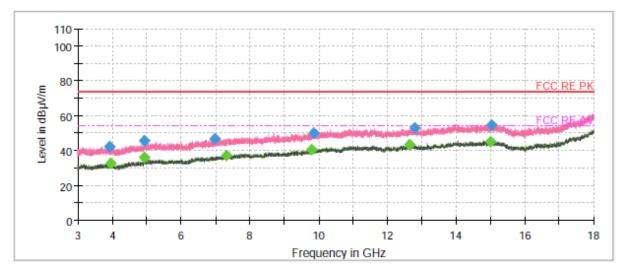


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1075.733333		37.55	54.00	16.45	100.0	Н	218.0	-9
1188.333333	47.04		74.00	26.96	100.0	V	121.0	-9
1407.333333		38.80	54.00	15.20	100.0	V	121.0	-7
1438.600000	49.08		74.00	24.92	100.0	V	7.0	-7
1528.666667	49.22		74.00	24.78	100.0	V	41.0	-7
1726.400000		39.70	54.00	14.30	200.0	Н	238.0	-6
1971.533333	50.51		74.00	23.49	100.0	Н	129.0	-5
1995.933333		40.70	54.00	13.30	100.0	V	2.0	-5
2484.533333		46.60	54.00	7.40	200.0	Н	193.0	-4
2484.733333	64.60		74.00	9.40	100.0	Н	29.0	-4
2759.733333	52.32		74.00	21.68	100.0	Н	0.0	-4
2814.933333		42.23	54.00	11.77	100.0	Н	358.0	-3

RF Test Report 802.11n (HT20) CH11



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

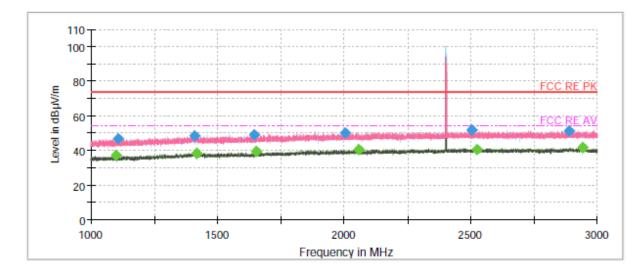


Radiates Emission from 3GHz to 18GHz

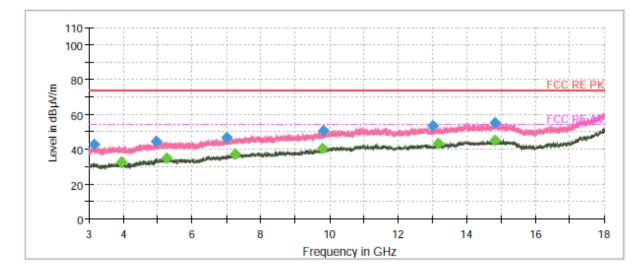


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1098.733333		37.21	54.00	16.79	200.0	Н	260.0	-9
1192.466667	47.36		74.00	26.64	200.0	V	205.0	-9
1398.866667	48.22		74.00	25.78	200.0	V	45.0	-7
1414.266667		38.67	54.00	15.33	100.0	V	3.0	-7
1647.533333	49.42		74.00	24.58	100.0	Н	296.0	-6
1670.866667		39.58	54.00	14.42	200.0	Н	123.0	-6
1996.666667		40.69	54.00	13.31	200.0	Н	93.0	-5
2028.266667	50.63		74.00	23.37	200.0	Н	146.0	-5
2483.533333	66.46		74.00	7.54	100.0	Н	188.0	-4
2483.600000		51.63	54.00	2.37	100.0	Н	188.0	-4
2844.600000		42.09	54.00	11.91	100.0	Н	337.0	-3
2918.600000	52.19		74.00	21.81	100.0	V	1.0	-4

RF Test Report
Bluetooth LE-Channel 0



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



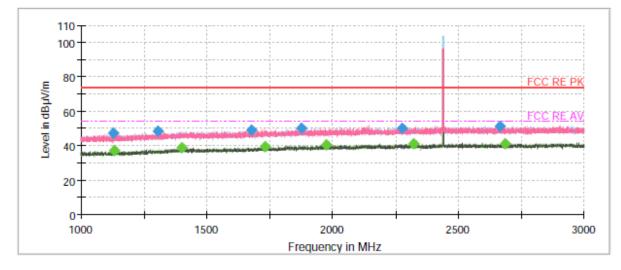
Radiates Emission from 3GHz to 18GHz



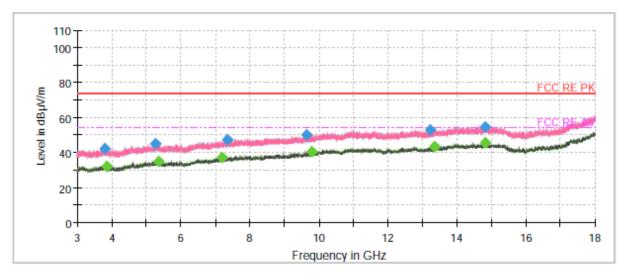
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1100.600000		37.24	54.00	16.76	200.0	V	308.0	-9
1107.933333	46.75		74.00	27.25	100.0	Н	249.0	-9
1409.133333	48.60		74.00	25.40	200.0	Н	79.0	-7
1418.266667		38.46	54.00	15.54	200.0	Н	0.0	-7
1646.600000	49.15		74.00	24.85	100.0	V	317.0	-6
1651.266667		39.63	54.00	14.37	100.0	V	266.0	-6
2003.666667	50.20		74.00	23.80	100.0	V	349.0	-5
2055.800000		40.69	54.00	13.31	100.0	V	135.0	-5
2504.600000	51.87		74.00	22.13	200.0	V	56.0	-4
2523.266667		40.78	54.00	13.22	100.0	Н	78.0	-4
2890.066667	51.46		74.00	22.54	100.0	V	356.0	-3
2942.000000		41.58	54.00	12.42	200.0	V	43.0	-3

Bluetooth LE-Channel 19

RF Test Report



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

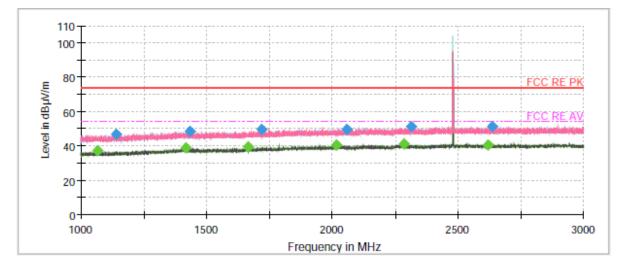


Radiates Emission from 3GHz to 18GHz

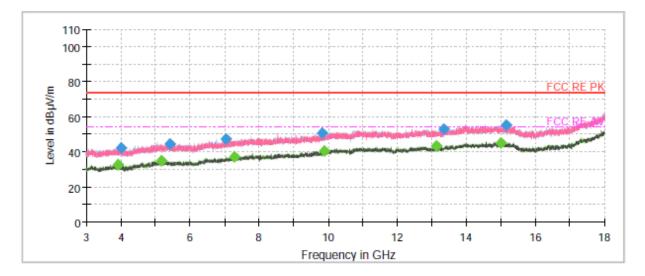


Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1130.133333	47.11		74.00	26.89	200.0	Н	81.0	-9
1131.200000		36.97	54.00	17.03	200.0	Н	359.0	-9
1304.800000	48.26		74.00	25.74	100.0	Н	227.0	-8
1402.533333		38.67	54.00	15.33	100.0	V	336.0	-7
1678.800000	48.89		74.00	25.11	200.0	Н	227.0	-6
1731.466667		39.63	54.00	14.37	200.0	Н	304.0	-6
1875.066667	50.15		74.00	23.85	100.0	V	133.0	-5
1976.000000		40.34	54.00	13.66	100.0	Н	28.0	-5
2277.466667	50.37		74.00	23.63	100.0	Н	79.0	-4
2320.533333		41.26	54.00	12.74	200.0	V	0.0	-4
2667.200000	51.15		74.00	22.85	100.0	V	186.0	-3
2685.866667		41.04	54.00	12.96	200.0	V	322.0	-4

RF Test Report Bluetooth LE-Channel 39



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



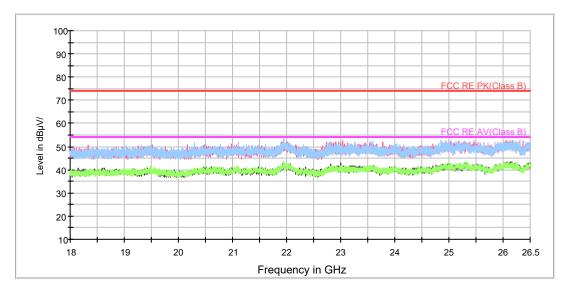
Radiates Emission from 3GHz to 18GHz



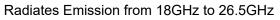
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1067.333333		37.11	54.00	16.89	100.0	V	1.0	-9
1142.200000	46.66		74.00	27.34	200.0	Н	356.0	-9
1417.000000		38.82	54.00	15.18	200.0	V	0.0	-7
1432.466667	48.28		74.00	25.72	100.0	Н	56.0	-7
1665.666667		39.40	54.00	14.60	200.0	V	227.0	-6
1720.333333	49.37		74.00	24.63	100.0	V	0.0	-6
2014.666667		40.41	54.00	13.59	200.0	V	34.0	-5
2056.333333	49.90		74.00	24.10	200.0	V	214.0	-5
2284.200000		41.26	54.00	12.74	200.0	Н	79.0	-4
2312.600000	51.23		74.00	22.77	200.0	V	136.0	-4
2620.466667		40.79	54.00	13.21	100.0	Н	336.0	-4
2636.866667	51.06		74.00	22.94	200.0	V	72.0	-4



During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11b, Channel 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



RE 18-26.5GHz PK+AV





5.7. Conducted Emission

Ambient condition

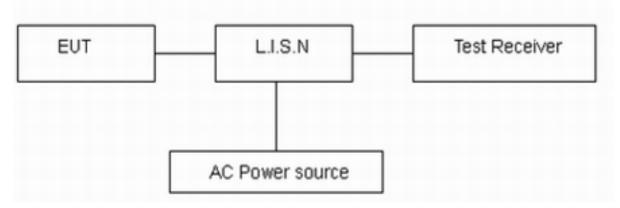
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

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

The test is in transmitting mode.

Test Setup



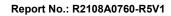
Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

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

Measurement Uncertainty

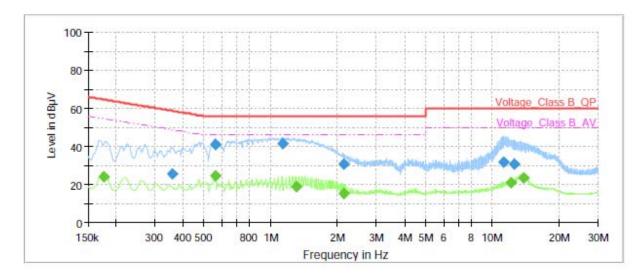
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U= 2.69 dB.





Test Results:

Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes (WIFI 2.4G /Bluetooth LE) with all channels, 802.11b, Channel 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

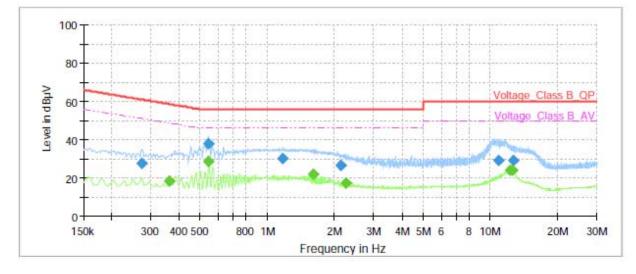


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.18		24.34	54.63	30.29	70.0	9.000	L1	ON	21
0.36	25.54		58.75	33.21	70.0	9.000	L1	ON	21
0.56		24.74	46.00	21.26	70.0	9.000	L1	ON	20
0.56	41.05		56.00	14.95	70.0	9.000	L1	ON	20
1.13	41.44		56.00	14.56	70.0	9.000	L1	ON	20
1.30		19.04	46.00	26.96	70.0	9.000	L1	ON	20
2.12	30.77		56.00	25.23	70.0	9.000	L1	ON	20
2.12		15.47	46.00	30.53	70.0	9.000	L1	ON	20
11.21	31.92		60.00	28.08	70.0	9.000	L1	ON	20
12.14		21.08	50.00	28.92	70.0	9.000	L1	ON	20
12.48	30.64		60.00	29.36	70.0	9.000	L1	ON	20
13.87		23.82	50.00	26.18	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

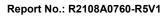
RF Test Report



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.27	27.64		61.00	33.36	70.0	9.000	Ν	ON	21
0.36		18.25	48.69	30.44	70.0	9.000	Ν	ON	21
0.54	38.16		56.00	17.84	70.0	9.000	Ν	ON	20
0.55		28.80	46.00	17.20	70.0	9.000	Ν	ON	20
1.18	30.51		56.00	25.49	70.0	9.000	Ν	ON	20
1.61		21.83	46.00	24.17	70.0	9.000	Ν	ON	20
2.13	26.83		56.00	29.17	70.0	9.000	Ν	ON	20
2.24		17.58	46.00	28.42	70.0	9.000	Ν	ON	20
10.88	29.08		60.00	30.92	70.0	9.000	Ν	ON	20
12.23		24.20	50.00	25.80	70.0	9.000	Ν	ON	20
12.47		24.22	50.00	25.78	70.0	9.000	Ν	ON	20
12.69	29.05		60.00	30.95	70.0	9.000	Ν	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz





6. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	100815	2020-12-13	2021-12-12
EMI Test Receiver	R&S	ESCI	100948	2021-05-15	2022-05-14
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2019-12-16	2022-12-15
Horn Antenna	R&S	HF907	102723	2020-08-11	2023-08-10
Standard Gain Horno	QPAR	QMS-00225	19928	2020-02-26	2023-02-25
EMI Test Receiver	R&S	ESR	101667	2021-05-16	2022-05-15
LISN	R&S	ENV216	101171	2018-12-15	2021-12-14
Spectrum Analyzer	Agilent	N9020A	MY47191109	2021-05-15	2022-05-14
Power Sensor	R&S	NRP18S	101955	2021-05-15	2022-05-14
20dB Attenuator	Star River Highlight	UCL-TS2S-20	18013001	2020-12-14	2021-12-13
RF Cable	Agilent	SMA 15cm	0001	2021-06-13	2021-12-12
Software	R&S	EMC32	9.26.0	/	/

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



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.