



RF TEST REPORT

Report No.: SET2022-15048

Product Name: LTE Indoor CPE

Model No.: EG3015M-M30-HP-EUD, EG3015M-M11-HP-EUD

FCC ID: 2AG323015MM30HPEUD

Applicant: Baicells Technologies Co., Ltd.

Address: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China

Dates of Testing: 11/07/2022 -11/17/2022

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street,
Nanshan District, Shenzhen, Guangdong, China.

Tel: 86 755 26627338 **Fax:** 86 755 26627238

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Test Report

Product: LTE Indoor CPE

Trade Name: Baicells

Applicant.....: Baicells Technologies Co., Ltd.


Applicant Address.....: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District,
Beijing, China

Manufacturer: Baicells Technologies Co., Ltd.

Manufacturer Address: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District,
Beijing, China

Test Standards: 47 CFR Part 15 Subpart C
ANSI C63.10-2013

Test Result.....: Pass

Tested by:  2022.11.18

Chuiwang Zhang, Test Engineer

Reviewed by:  2022.11.18

Chris You, Senior Engineer

Approved by:  2022.11.18

Tao Hou, Manager



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Change History		
Issue	Date	Reason for change
1.0	2022.11.18	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	LTE Indoor CPE
Model No.	EG3015M-M30-HP-EUD, EG3015M-M11-HP-EUD
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n (HT20/HT40)/ax(HE20/HE40)
Frequency Range	802.11b/g/n/ax-20MHz: 2.412GHz - 2.462GHz 802.11n/ax-40MHz: 2.422GHz-2.452GHz
Channel Number	802.11b/g/n/ax-20MHz: 11 802.11n/ax-40MHz: 7
Transfer Rate	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n : up to 300Mbps (2×2MIMO) 802.11ax : up to 573.529Mbps (2×2MIMO)
Modulation Type	DSSS (802.11b), OFDM (802.11g/n), OFDMA (802.11ax)
Antenna Type	Internal Antenna
Antenna Gain	ANT 0/1: 2.5dBi
AC adapter	Model No.:S24B72-120A200-0K Input: AC100-240V, 50/60Hz 0.8A Output: DC 12.0V, 2.0A or DC 24.0W

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

Note 3: The antenna gain and RF adapter/cable insert loss provided by manufacture.

Note 4: Model No.: EG3015M-M11-HP-EUD are identical on external structure, circuitry design, PCB layout, electrical components used, internal wiring and functions with the model EG3015M-M30-HP-EUD which we chose to be tested and only different on LTE Band.

Different model (s) and LTE band:

EG3015M-M30-HP-EUD: B41/B48

EG3015M-M11-HP-EUD: B48.



1.1. Test Standards and Results

The objective of the report is to perform testing according to below standards for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C	Radio Frequency Devices
2	KDB 558074 D01 15.247 Meas Guidance v05r02	Cuidance for Compliance Measurement on Digital Transmission Systems, Frequency Hopping Spread Spectrum Systems, and Hybrid System Devices Operating under Section 15.247 of the FCC Rules
3	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section in CFR 47	Description	Result
1	15.203 15.247(c)	Antenna Requirement	PASS
2	15.247(b)(3)	Peak Conducted Output Power	PASS
3	15.247(a)(2)	6dB Bandwidth	PASS ^{Note 4}
4	15.247(d)	Conducted Band Edges and Spurious Emission	PASS ^{Note 4}
5	15.247(e)	Power spectral density (PSD)	PASS ^{Note 4}
6	15.207	AC Power Line Conducted Emission	PASS ^{Note 4}
7	15.209 15.205 15.247(d)	Radiated Band Edges and Spurious Emission	PASS

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013.

Note 2: These RF tests were performed according to the method of measurements prescribed in KDB 558074 D01 15.247 Meas Guidance v05r02.

Note 3: Test data reference FCC ID: 2AG32EG3015MM30HP

1.2. Channel List

For 20MHz bandwidth systems, use Channel 1~ Channel 11.

Channel No.	Frequency	Channel No.	Frequency	Channel No.	Frequency
1	2412MHz	5	2432MHz	9	2452MHz
2	2417MHz	6	2437MHz	10	2457MHz
3	2422MHz	7	2442MHz	11	2462MHz
4	2427MHz	8	2447MHz		

Note: Channel 1, 6 & 11 selected for 802.11b/g/n-HT20/ax-HE20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40/ax-HE40 as Lowest, Middle and Highest Channel.

1.2. Test environment and mode

During the measurement, the environmental conditions were within the listed ranges:

Operating Environment	
Temperature	15°C - 35°C
Humidity	30% -60%
Atmospheric Pressure	86KPa-106KPa
Test mode:	
Continuously transmitting mode	Keeps the EUT in 100% duty cycle transmitting with modulation in SISO, duty cycle factor is not required.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Conducted and Spurious Emission Radiated and Spurious Emission	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n-HT20/ax-HE20/OFDM	MCS 0	1/6/11
	11n-HT40/ax-HE40/OFDM	MCS 0	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n-HT20/ax-HE20/OFDM	MCS 0	1/11
	11n-HT40/ax-HE40/OFDM	MCS 0	3/6/9

1.3. Table for Supporting Units

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Laptop	HP	TPN-Q221	HP	5CD14347QB	FCC DOC



1.4. EUT Operation Test Setup

For RF test items, an engineering test program was provided and enable to make EUT transmitting.

1.5. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until April 19th, 2023.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Jun. 30th, 2023.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

2. Test Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

And according to FCC 47 CFR Section 15.247(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna Category: Internal Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Operating frequency range	Ant. Type	Antenna No.	Ant. Gain	Directional gain
1	LTE Indoor CPE	2412-2462MHz	Internal	ANT 0/1	2.5dBi	2.5dBi

Note: All transmit signals are completely uncorrelated with each other, Directional gain = G_{ANT} = 2.5dBi.

2.1.3. Result: comply

The EUT has two permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Maximum Conducted Output Power

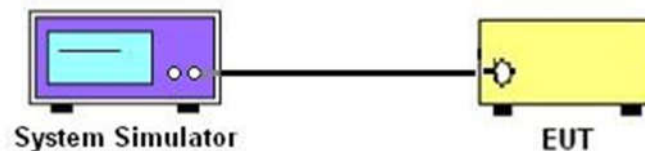
2.2.1. Limit of Maximum Conducted Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 Section 11.9.1.3.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Record the measurement results in the test report.



2.2.5. Test Result of Maximum Conducted Output Power

Please refer to Appendix A for detail.

2.3. 6dB Bandwidth

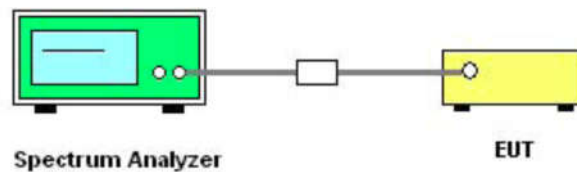
2.3.1. Limit of 6dB Bandwidth

The minimum 6 dB Occupied bandwidth shall be at least 500 kHz.

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 Section 11.8.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Using the X dB bandwidth mode of the instrument's automatic bandwidth measurement function, X is set to 6 dB. the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
5. Use the following spectrum analyzer settings:
RBW: 100kHz / VBW: 300kHz / Detector: Peak / Trace mode: Max hold / Sweep time: Auto couple / Allow trace to fully stabilize.
6. Record the measurement results in the test report.



2.3.5. Test Results of 6dB Bandwidth

Please refer to Appendix A for detail.

2.4. Power spectral density (PSD)

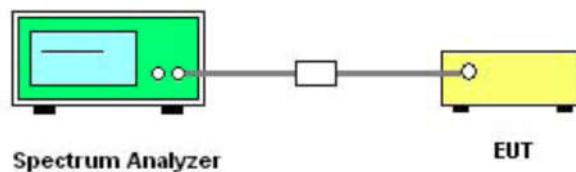
2.4.1. Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup



2.4.4. Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 Section 11.10.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings:
Set instrument center frequency to DTS channel center frequency / Set the span to 1.5 times the DTS bandwidth / RBW: 3kHz / VBW: 10kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum power level.
5. Record the measurement results in the test report.



2.4.5. Test Results of Power Spectral Density

Please refer to Appendix A for detail.

2.5. Conducted Band Edges and Spurious Emissions

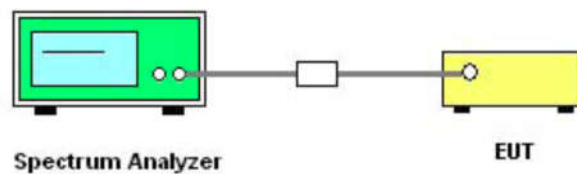
2.5.1. Limit of Conducted Band Edges and Spurious Emissions

In any 100 kHz bandwidth outside the frequency band in which the 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.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 Section 11.11 and 11.13.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.

4. Use the following spectrum analyzer settings:

Reference level measurement: Set spectrum analyzer center frequency to DTS channel center frequency / Set the span to ≥ 1.5 times the DTS bandwidth / RBW: 100kHz / VBW: 300kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum PSD level and attenuate it by 20dB.

Emission level measurement: Set the center frequency and span to encompass frequency range to be measured / RBW: 100kHz / VBW: 300kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum amplitude level.

5. Record the measurement results in the test report.



2.5.5. Test Results of Conducted Band Edges and Spurious Emissions

Please refer to Appendix A for detail.

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the 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. If the transmitter uses an RMS average conducted power limit, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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).

§15.209(a) Radiated emission limits:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Restricted bands of operation refer to §15.205 (a):

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	/	/	/

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

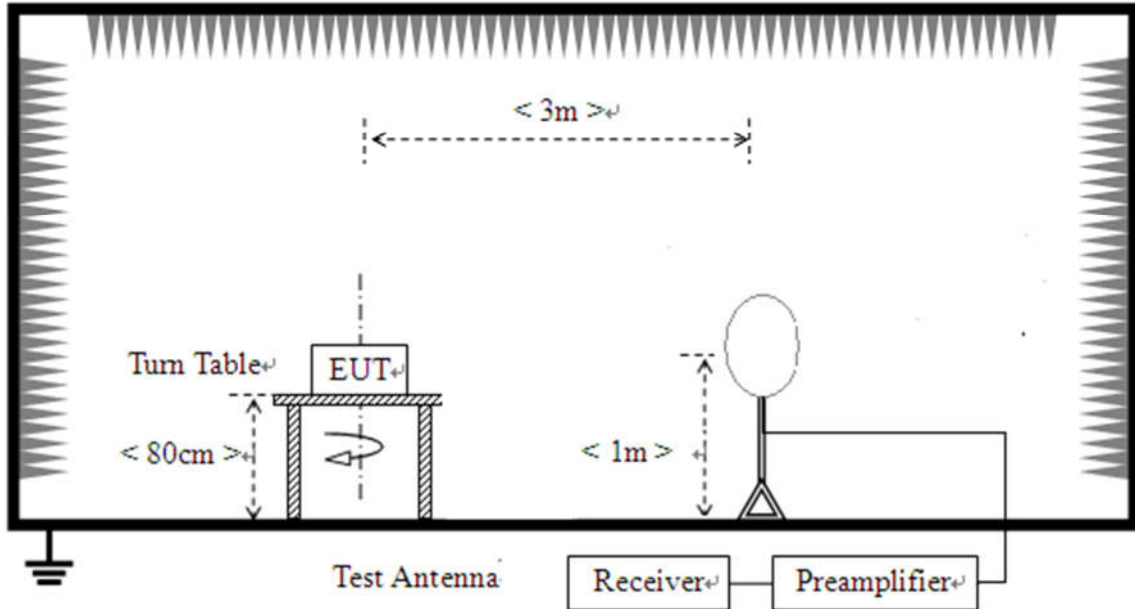
²Above 38.6.

2.6.2. Measuring Instruments

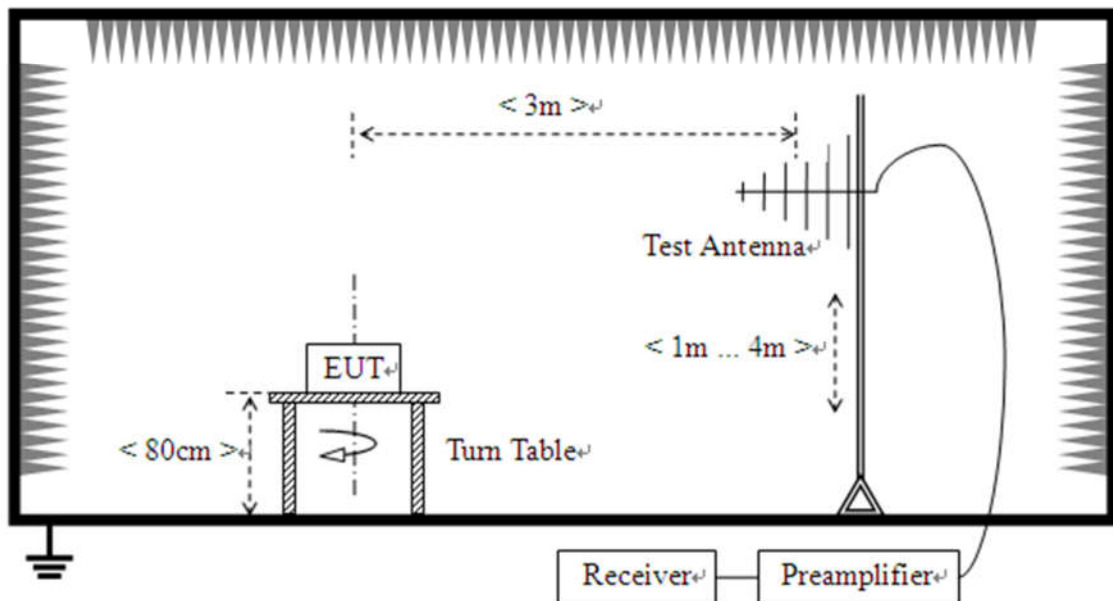
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

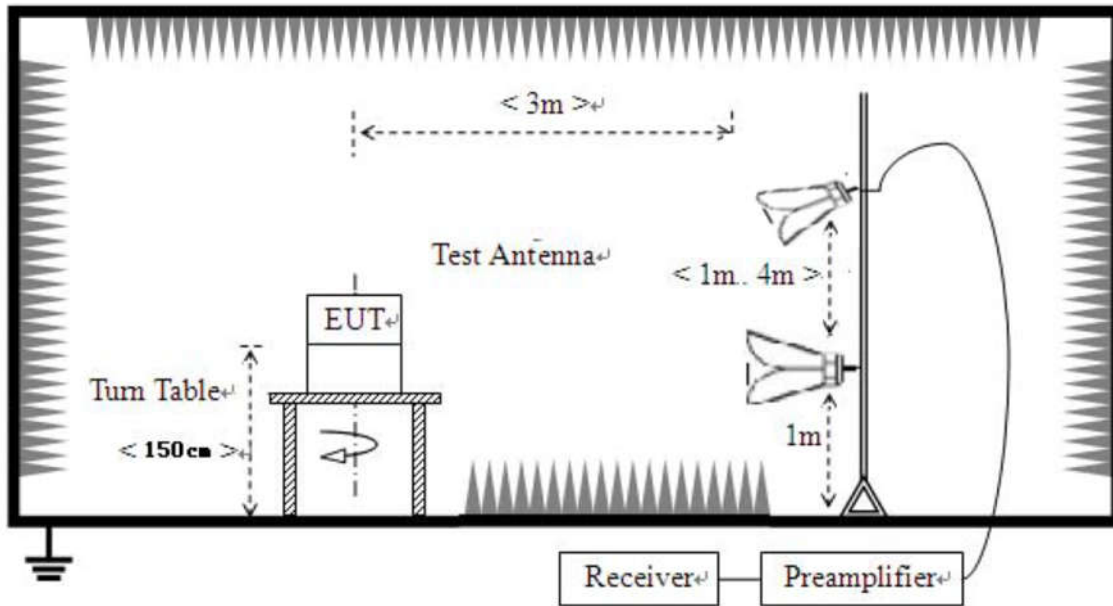
For radiated emissions from 9 kHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8m for below 1GHz and 1.5m for above 1GHz above the ground at a 3 meters semi-anechoic chamber.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then

reported in a data sheet.

7. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

2.6.5. Test Results of Radiated Band Edge and Spurious Emission

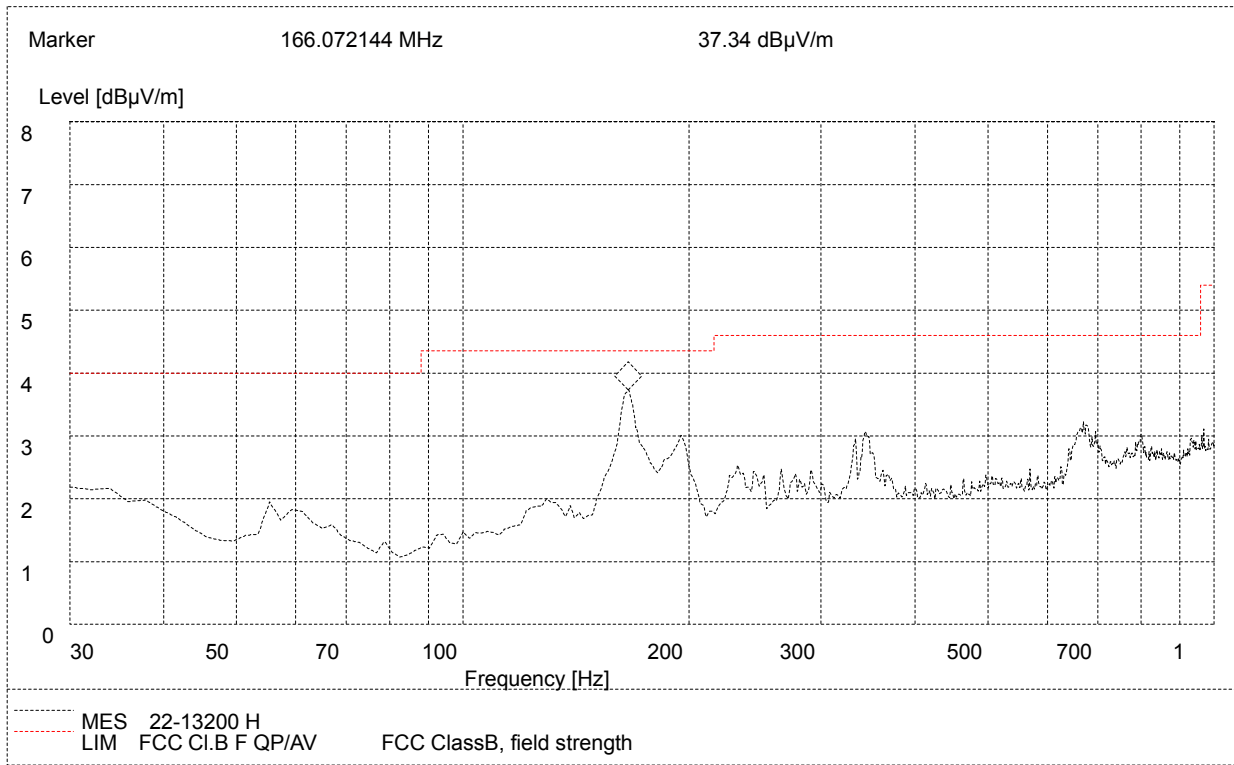
NOTE 1: For 9 kHz to 30MHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

NOTE 2: For 30MHz to 1GHz, All of the EUT Configure mode were tested and found 802.11b -Ant0 2437MHz channel is the worst mode, the worst case is recorded in this report.

NOTE 3: Antenna height and turntable angle are the worst positions, the worst case is recorded in this report.



For 30MHz to 1000MHz

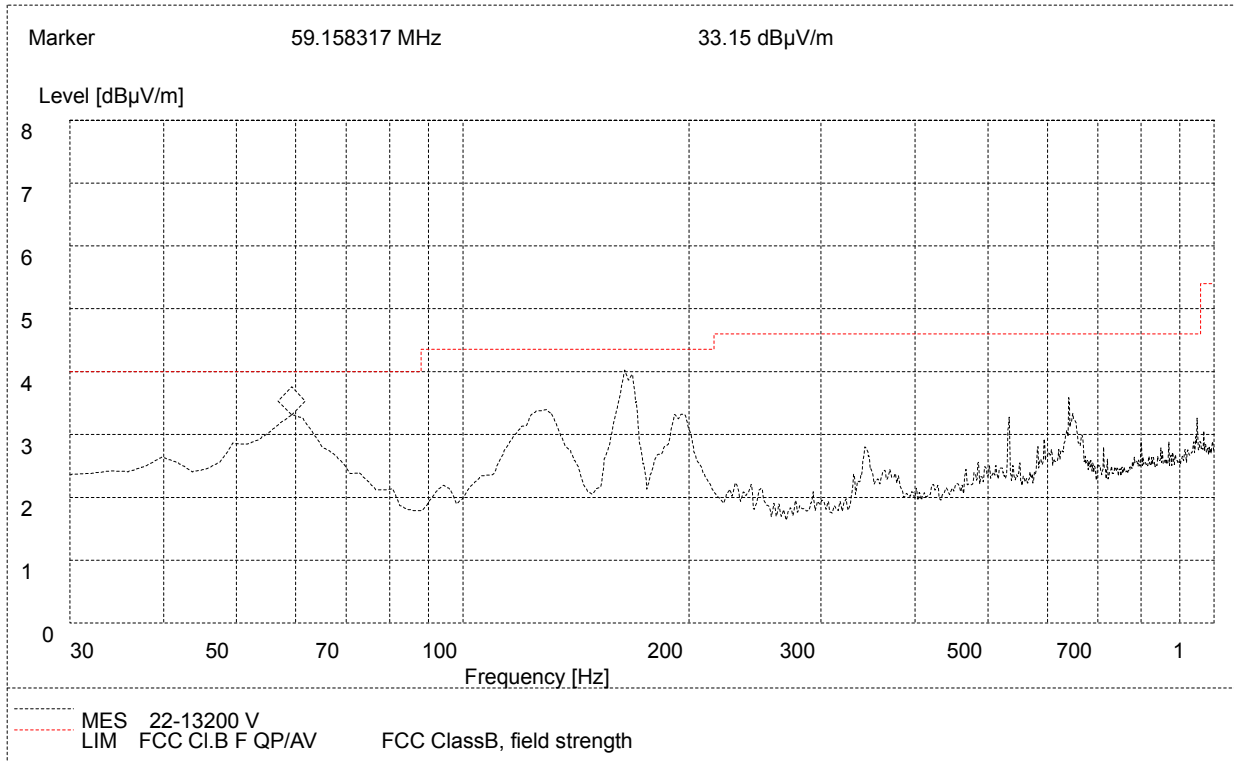


Frequency (MHz)	QuasiPeak (dB µ V/m)	Bandwidth (kHz)	Corr.Factor (dB/m)	Antenna height (cm)	Limit (dB µ V/m)	Margin (dB)	Polarity
30.000000	21.07	120.000	19.3	100.0	40.0	18.93	Horizontal
55.080000	18.63	120.000	8.6	100.0	40.0	21.37	Horizontal
166.080000	36.73	120.000	12.5	100.0	43.5	6.77	Horizontal
195.830000	30.00	120.000	10.0	100.0	43.5	13.50	Horizontal
342.830000	30.50	120.000	16.9	100.0	46.0	15.50	Horizontal
677.690000	31.08	120.000	21.8	100.0	46.0	14.92	Horizontal

Test Result : Pass

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The other emission levels were very low against the limit.



Frequency (MHz)	QuasiPeak (dB µ V/m)	Bandwidth (kHz)	Corr.Factor (dB/m)	Antenna height (cm)	Limit (dB µ V/m)	Margin (dB)	Polarity
39.650000	25.13	120.000	14.0	100.0	40.0	14.87	Vertical
59.650000	31.05	120.000	6.1	100.0	40.0	8.95	Vertical
129.650000	32.68	120.000	12.6	100.0	43.5	10.82	Vertical
166.080000	38.93	120.000	12.5	100.0	43.5	4.57	Vertical
344.890000	27.60	120.000	16.9	100.0	46.0	18.40	Vertical
640.085000	35.20	120.000	21.8	100.0	46.0	10.80	Vertical

Test Result : Pass

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The other emission levels were very low against the limit.



For 1GHz to 25GHz

2.4G Wi-Fi 802.11b_2412MHz - ANT0									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	46.61	74.00	-27.39	1.50	180	45.31	1.30	Horizontal	Peak
2390.00	37.38	54.00	-16.62	1.50	180	36.08	1.30	Horizontal	Average
4824.00	47.16	74.00	-26.84	1.50	180	40.76	6.40	Horizontal	Peak
4824.00	41.03	54.00	-12.97	1.50	180	34.63	6.40	Horizontal	Average
7236.00	49.72	74.00	-24.28	1.50	180	39.22	10.50	Horizontal	Peak
7236.00	40.62	54.00	-13.38	1.50	180	30.12	10.50	Horizontal	Average
2390.00	46.58	74.00	-27.42	1.60	230	45.28	1.30	Vertical	Peak
2390.00	37.67	54.00	-16.33	1.60	230	36.37	1.30	Vertical	Average
4824.00	50.86	74.00	-23.14	1.60	230	44.46	6.40	Vertical	Peak
4824.00	42.29	54.00	-11.71	1.60	230	35.89	6.40	Vertical	Average
7236.00	51.82	74.00	-22.18	1.60	230	41.32	10.50	Vertical	Peak
7236.00	40.32	54.00	-13.68	1.60	230	29.82	10.50	Vertical	Average

2.4G Wi-Fi 802.11b_2437MHz - ANT0									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.39	74.00	-26.61	1.50	180	41.59	5.80	Horizontal	Peak
4874.00	38.47	54.00	-15.53	1.50	180	32.67	5.80	Horizontal	Average
7311.00	51.64	74.00	-22.36	1.50	180	40.84	10.80	Horizontal	Peak
7311.00	41.43	54.00	-12.57	1.50	180	30.63	10.80	Horizontal	Average
4874.00	50.56	74.00	-23.44	1.60	230	44.76	5.80	Vertical	Peak
4874.00	44.99	54.00	-9.01	1.60	230	39.19	5.80	Vertical	Average
7311.00	50.97	74.00	-23.03	1.60	230	40.17	10.80	Vertical	Peak
7311.00	41.45	54.00	-12.55	1.60	230	30.65	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11b_2462MHz - ANT0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.65	74.00	-27.35	1.50	180	45.05	1.60	Horizontal	Peak
2483.50	35.55	54.00	-18.45	1.50	180	33.95	1.60	Horizontal	Average
4924.00	50.63	74.00	-23.37	1.50	180	44.93	5.70	Horizontal	Peak
4924.00	41.06	54.00	-12.94	1.50	180	35.36	5.70	Horizontal	Average
7386.00	51.06	74.00	-22.94	1.50	180	40.26	10.80	Horizontal	Peak
7386.00	41.62	54.00	-12.38	1.50	180	30.82	10.80	Horizontal	Average
2483.50	44.86	74.00	-29.14	1.60	230	43.26	1.60	Vertical	Peak
2483.50	34.49	54.00	-19.51	1.60	230	32.89	1.60	Vertical	Average
4924.00	48.15	74.00	-25.85	1.60	230	42.45	5.70	Vertical	Peak
4924.00	37.93	54.00	-16.07	1.60	230	32.23	5.70	Vertical	Average
7386.00	51.71	74.00	-22.29	1.60	230	40.91	10.80	Vertical	Peak
7386.00	41.48	54.00	-12.52	1.60	230	30.68	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11g_2412MHz - ANT0									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	46.85	74.00	-27.15	1.50	180	45.55	1.30	Horizontal	Peak
2390.00	38.11	54.00	-15.89	1.50	180	36.81	1.30	Horizontal	Average
4824.00	47.21	74.00	-26.79	1.50	180	40.81	6.40	Horizontal	Peak
4824.00	40.83	54.00	-13.17	1.50	180	34.43	6.40	Horizontal	Average
7236.00	51.46	74.00	-22.54	1.50	180	40.96	10.50	Horizontal	Peak
7236.00	41.41	54.00	-12.59	1.50	180	30.91	10.50	Horizontal	Average
2390.00	47.04	74.00	-26.96	1.60	230	45.74	1.30	Vertical	Peak
2390.00	37.58	54.00	-16.42	1.60	230	36.28	1.30	Vertical	Average
4824.00	50.14	74.00	-23.86	1.60	230	43.74	6.40	Vertical	Peak
4824.00	42.61	54.00	-11.39	1.60	230	36.21	6.40	Vertical	Average
7236.00	51.30	74.00	-22.70	1.60	230	40.80	10.50	Vertical	Peak
7236.00	40.79	54.00	-13.21	1.60	230	30.29	10.50	Vertical	Average

2.4G Wi-Fi 802.11g_2437MHz - ANT0									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	48.16	74.00	-25.84	1.50	180	42.36	5.80	Horizontal	Peak
4874.00	39.13	54.00	-14.87	1.50	180	33.33	5.80	Horizontal	Average
7311.00	51.04	74.00	-22.96	1.50	180	40.24	10.80	Horizontal	Peak
7311.00	41.23	54.00	-12.77	1.50	180	30.43	10.80	Horizontal	Average
4874.00	50.95	74.00	-23.05	1.60	230	45.15	5.80	Vertical	Peak
4874.00	44.49	54.00	-9.51	1.60	230	38.69	5.80	Vertical	Average
7311.00	51.76	74.00	-22.24	1.60	230	40.96	10.80	Vertical	Peak
7311.00	41.98	54.00	-12.02	1.60	230	31.18	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

**2.4G Wi-Fi 802.11g_2462MHz - ANT0**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.49	74.00	-27.51	1.50	180	44.89	1.60	Horizontal	Peak
2483.50	35.81	54.00	-18.19	1.50	180	34.21	1.60	Horizontal	Average
4924.00	50.12	74.00	-23.88	1.50	180	44.42	5.70	Horizontal	Peak
4924.00	40.67	54.00	-13.33	1.50	180	34.97	5.70	Horizontal	Average
7386.00	50.10	74.00	-23.90	1.50	180	39.30	10.80	Horizontal	Peak
7386.00	41.39	54.00	-12.61	1.50	180	30.59	10.80	Horizontal	Average
2483.50	44.17	74.00	-29.83	1.60	230	42.57	1.60	Vertical	Peak
2483.50	35.25	54.00	-18.75	1.60	230	33.65	1.60	Vertical	Average
4924.00	47.62	74.00	-26.38	1.60	230	41.92	5.70	Vertical	Peak
4924.00	37.56	54.00	-16.44	1.60	230	31.86	5.70	Vertical	Average
7386.00	51.32	74.00	-22.68	1.60	230	40.52	10.80	Vertical	Peak
7386.00	40.81	54.00	-13.19	1.60	230	30.01	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11b_2412MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	46.85	74.00	-27.15	1.50	180	45.55	1.30	Horizontal	Peak
2390.00	38.11	54.00	-15.89	1.50	180	36.81	1.30	Horizontal	Average
4824.00	47.21	74.00	-26.79	1.50	180	40.81	6.40	Horizontal	Peak
4824.00	40.83	54.00	-13.17	1.50	180	34.43	6.40	Horizontal	Average
7236.00	51.46	74.00	-22.54	1.50	180	40.96	10.50	Horizontal	Peak
7236.00	41.41	54.00	-12.59	1.50	180	30.91	10.50	Horizontal	Average
2390.00	47.04	74.00	-26.96	1.60	230	45.74	1.30	Vertical	Peak
2390.00	37.58	54.00	-16.42	1.60	230	36.28	1.30	Vertical	Average
4824.00	50.14	74.00	-23.86	1.60	230	43.74	6.40	Vertical	Peak
4824.00	42.61	54.00	-11.39	1.60	230	36.21	6.40	Vertical	Average
7236.00	51.30	74.00	-22.70	1.60	230	40.80	10.50	Vertical	Peak
7236.00	40.79	54.00	-13.21	1.60	230	30.29	10.50	Vertical	Average
2.4G Wi-Fi 802.11b_2437MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	48.16	74.00	-25.84	1.50	180	42.36	5.80	Horizontal	Peak
4874.00	39.13	54.00	-14.87	1.50	180	33.33	5.80	Horizontal	Average
7311.00	51.04	74.00	-22.96	1.50	180	40.24	10.80	Horizontal	Peak
7311.00	41.23	54.00	-12.77	1.50	180	30.43	10.80	Horizontal	Average
4874.00	50.95	74.00	-23.05	1.60	230	45.15	5.80	Vertical	Peak
4874.00	44.49	54.00	-9.51	1.60	230	38.69	5.80	Vertical	Average
7311.00	51.76	74.00	-22.24	1.60	230	40.96	10.80	Vertical	Peak
7311.00	41.98	54.00	-12.02	1.60	230	31.18	10.80	Vertical	Average
<p><i>Remark:</i></p> <ol style="list-style-type: none"> <i>Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)</i> <i>Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)</i> <i>Margin value = Emission Level – Limit value</i> <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i> 									



2.4G Wi-Fi 802.11b_2462MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.49	74.00	-27.51	1.50	180	44.89	1.60	Horizontal	Peak
2483.50	35.81	54.00	-18.19	1.50	180	34.21	1.60	Horizontal	Average
4924.00	50.12	74.00	-23.88	1.50	180	44.42	5.70	Horizontal	Peak
4924.00	40.67	54.00	-13.33	1.50	180	34.97	5.70	Horizontal	Average
7386.00	50.10	74.00	-23.90	1.50	180	39.30	10.80	Horizontal	Peak
7386.00	41.39	54.00	-12.61	1.50	180	30.59	10.80	Horizontal	Average
2483.50	44.17	74.00	-29.83	1.60	230	42.57	1.60	Vertical	Peak
2483.50	35.25	54.00	-18.75	1.60	230	33.65	1.60	Vertical	Average
4924.00	47.62	74.00	-26.38	1.60	230	41.92	5.70	Vertical	Peak
4924.00	37.56	54.00	-16.44	1.60	230	31.86	5.70	Vertical	Average
7386.00	51.32	74.00	-22.68	1.60	230	40.52	10.80	Vertical	Peak
7386.00	40.81	54.00	-13.19	1.60	230	30.01	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11g_2412MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	47.16	74.00	-26.84	1.50	180	45.86	1.30	Horizontal	Peak
2390.00	37.98	54.00	-16.02	1.50	180	36.68	1.30	Horizontal	Average
4824.00	47.69	74.00	-26.31	1.50	180	41.29	6.40	Horizontal	Peak
4824.00	40.45	54.00	-13.55	1.50	180	34.05	6.40	Horizontal	Average
7236.00	51.36	74.00	-22.64	1.50	180	40.86	10.50	Horizontal	Peak
7236.00	41.78	54.00	-12.22	1.50	180	31.28	10.50	Horizontal	Average
2390.00	47.24	74.00	-26.76	1.60	230	45.94	1.30	Vertical	Peak
2390.00	37.49	54.00	-16.51	1.60	230	36.19	1.30	Vertical	Average
4824.00	49.91	74.00	-24.09	1.60	230	43.51	6.40	Vertical	Peak
4824.00	42.72	54.00	-11.28	1.60	230	36.32	6.40	Vertical	Average
7236.00	50.80	74.00	-23.20	1.60	230	40.30	10.50	Vertical	Peak
7236.00	40.74	54.00	-13.26	1.60	230	30.24	10.50	Vertical	Average
2.4G Wi-Fi 802.11g_2437MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	48.04	74.00	-25.96	1.50	180	42.24	5.80	Horizontal	Peak
4874.00	38.98	54.00	-15.02	1.50	180	33.18	5.80	Horizontal	Average
7311.00	51.46	74.00	-22.54	1.50	180	40.66	10.80	Horizontal	Peak
7311.00	41.68	54.00	-12.32	1.50	180	30.88	10.80	Horizontal	Average
4874.00	50.47	74.00	-23.53	1.60	230	44.67	5.80	Vertical	Peak
4874.00	44.15	54.00	-9.85	1.60	230	38.35	5.80	Vertical	Average
7311.00	51.71	74.00	-22.29	1.60	230	40.91	10.80	Vertical	Peak
7311.00	42.18	54.00	-11.82	1.60	230	31.38	10.80	Vertical	Average
<p><i>Remark:</i></p> <ol style="list-style-type: none"> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 									



2.4G Wi-Fi 802.11g_2462MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.37	74.00	-27.63	1.50	180	44.77	1.60	Horizontal	Peak
2483.50	35.36	54.00	-18.64	1.50	180	33.76	1.60	Horizontal	Average
4924.00	50.56	74.00	-23.44	1.50	180	44.86	5.70	Horizontal	Peak
4924.00	40.72	54.00	-13.28	1.50	180	35.02	5.70	Horizontal	Average
7386.00	50.43	74.00	-23.57	1.50	180	39.63	10.80	Horizontal	Peak
7386.00	41.87	54.00	-12.13	1.50	180	31.07	10.80	Horizontal	Average
2483.50	44.64	74.00	-29.36	1.60	230	43.04	1.60	Vertical	Peak
2483.50	35.29	54.00	-18.71	1.60	230	33.69	1.60	Vertical	Average
4924.00	47.99	74.00	-26.01	1.60	230	42.29	5.70	Vertical	Peak
4924.00	37.93	54.00	-16.07	1.60	230	32.23	5.70	Vertical	Average
7386.00	51.12	74.00	-22.88	1.60	230	40.32	10.80	Vertical	Peak
7386.00	40.37	54.00	-13.63	1.60	230	29.57	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11n-HT20_2412MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	46.59	74.00	-27.41	1.50	180	45.29	1.30	Horizontal	Peak
2390.00	37.86	54.00	-16.14	1.50	180	36.56	1.30	Horizontal	Average
4824.00	46.79	74.00	-27.21	1.50	180	40.39	6.40	Horizontal	Peak
4824.00	40.38	54.00	-13.62	1.50	180	33.98	6.40	Horizontal	Average
7236.00	51.06	74.00	-22.94	1.50	180	40.56	10.50	Horizontal	Peak
7236.00	41.35	54.00	-12.65	1.50	180	30.85	10.50	Horizontal	Average
2390.00	47.08	74.00	-26.92	1.60	230	45.78	1.30	Vertical	Peak
2390.00	37.32	54.00	-16.68	1.60	230	36.02	1.30	Vertical	Average
4824.00	50.58	74.00	-23.42	1.60	230	44.18	6.40	Vertical	Peak
4824.00	42.69	54.00	-11.31	1.60	230	36.29	6.40	Vertical	Average
7236.00	51.05	74.00	-22.95	1.60	230	40.55	10.50	Vertical	Peak
7236.00	40.65	54.00	-13.35	1.60	230	30.15	10.50	Vertical	Average

2.4G Wi-Fi 802.11n-HT20_2437MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.86	74.00	-26.14	1.50	180	42.06	5.80	Horizontal	Peak
4874.00	38.74	54.00	-15.26	1.50	180	32.94	5.80	Horizontal	Average
7311.00	51.40	74.00	-22.60	1.50	180	40.60	10.80	Horizontal	Peak
7311.00	41.54	54.00	-12.46	1.50	180	30.74	10.80	Horizontal	Average
4874.00	50.87	74.00	-23.13	1.60	230	45.07	5.80	Vertical	Peak
4874.00	45.07	54.00	-8.93	1.60	230	39.27	5.80	Vertical	Average
7311.00	51.00	74.00	-23.00	1.60	230	40.20	10.80	Vertical	Peak
7311.00	41.89	54.00	-12.11	1.60	230	31.09	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

**2.4G Wi-Fi 802.11n-HT20_2462MHz - MIMO**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.51	74.00	-27.49	1.50	180	44.91	1.60	Horizontal	Peak
2483.50	35.26	54.00	-18.74	1.50	180	33.66	1.60	Horizontal	Average
4924.00	50.26	74.00	-23.74	1.50	180	44.56	5.70	Horizontal	Peak
4924.00	41.15	54.00	-12.85	1.50	180	35.45	5.70	Horizontal	Average
7386.00	51.04	74.00	-22.96	1.50	180	40.24	10.80	Horizontal	Peak
7386.00	41.62	54.00	-12.38	1.50	180	30.82	10.80	Horizontal	Average
2483.50	44.44	74.00	-29.56	1.60	230	42.84	1.60	Vertical	Peak
2483.50	34.84	54.00	-19.16	1.60	230	33.24	1.60	Vertical	Average
4924.00	47.68	74.00	-26.32	1.60	230	41.98	5.70	Vertical	Peak
4924.00	37.94	54.00	-16.06	1.60	230	32.24	5.70	Vertical	Average
7386.00	51.69	74.00	-22.31	1.60	230	40.89	10.80	Vertical	Peak
7386.00	41.19	54.00	-12.81	1.60	230	30.39	10.80	Vertical	Average

Remark:

1. $Emission\ Level(dBuV/m) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB)$
3. $Margin\ value = Emission\ Level - Limit\ value$
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11ax-HE20_2412MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	46.02	74.00	-27.98	1.50	180	44.72	1.30	Horizontal	Peak
2390.00	37.31	54.00	-16.69	1.50	180	36.01	1.30	Horizontal	Average
4824.00	46.27	74.00	-27.73	1.50	180	39.87	6.40	Horizontal	Peak
4824.00	40.62	54.00	-13.38	1.50	180	34.22	6.40	Horizontal	Average
7236.00	50.37	74.00	-23.63	1.50	180	39.87	10.50	Horizontal	Peak
7236.00	41.20	54.00	-12.80	1.50	180	30.70	10.50	Horizontal	Average
2390.00	46.59	74.00	-27.41	1.60	230	45.29	1.30	Vertical	Peak
2390.00	38.18	54.00	-15.82	1.60	230	36.88	1.30	Vertical	Average
4824.00	50.51	74.00	-23.49	1.60	230	44.11	6.40	Vertical	Peak
4824.00	42.61	54.00	-11.39	1.60	230	36.21	6.40	Vertical	Average
7236.00	51.29	74.00	-22.71	1.60	230	40.79	10.50	Vertical	Peak
7236.00	40.51	54.00	-13.49	1.60	230	30.01	10.50	Vertical	Average
2.4G Wi-Fi 802.11ax-HE20_2437MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.85	74.00	-26.15	1.50	180	42.05	5.80	Horizontal	Peak
4874.00	39.06	54.00	-14.94	1.50	180	33.26	5.80	Horizontal	Average
7311.00	51.41	74.00	-22.59	1.50	180	40.61	10.80	Horizontal	Peak
7311.00	41.18	54.00	-12.82	1.50	180	30.38	10.80	Horizontal	Average
4874.00	50.75	74.00	-23.25	1.60	230	44.95	5.80	Vertical	Peak
4874.00	44.18	54.00	-9.82	1.60	230	38.38	5.80	Vertical	Average
7311.00	51.87	74.00	-22.13	1.60	230	41.07	10.80	Vertical	Peak
7311.00	41.90	54.00	-12.10	1.60	230	31.10	10.80	Vertical	Average
<p><i>Remark:</i></p> <ol style="list-style-type: none"> <i>Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)</i> <i>Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)</i> <i>Margin value = Emission Level – Limit value</i> <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i> 									

**2.4G Wi-Fi 802.11ax-HE20_2462MHz - MIMO**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.76	74.00	-27.24	1.50	180	45.16	1.60	Horizontal	Peak
2483.50	35.43	54.00	-18.57	1.50	180	33.83	1.60	Horizontal	Average
4924.00	50.06	74.00	-23.94	1.50	180	44.36	5.70	Horizontal	Peak
4924.00	41.29	54.00	-12.71	1.50	180	35.59	5.70	Horizontal	Average
7386.00	50.81	74.00	-23.19	1.50	180	40.01	10.80	Horizontal	Peak
7386.00	41.52	54.00	-12.48	1.50	180	30.72	10.80	Horizontal	Average
2483.50	44.29	74.00	-29.71	1.60	230	42.69	1.60	Vertical	Peak
2483.50	35.67	54.00	-18.33	1.60	230	34.07	1.60	Vertical	Average
4924.00	47.20	74.00	-26.80	1.60	230	41.50	5.70	Vertical	Peak
4924.00	37.43	54.00	-16.57	1.60	230	31.73	5.70	Vertical	Average
7386.00	51.97	74.00	-22.03	1.60	230	41.17	10.80	Vertical	Peak
7386.00	41.34	54.00	-12.66	1.60	230	30.54	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11n-HT40_2422MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	46.74	74.00	-27.26	1.50	180	45.44	1.30	Horizontal	Peak
2390.00	37.74	54.00	-16.26	1.50	180	36.44	1.30	Horizontal	Average
4844.00	46.31	74.00	-27.69	1.50	180	39.91	6.40	Horizontal	Peak
4844.00	40.26	54.00	-13.74	1.50	180	33.86	6.40	Horizontal	Average
7266.00	51.26	74.00	-22.74	1.50	180	40.76	10.50	Horizontal	Peak
7266.00	41.10	54.00	-12.90	1.50	180	30.60	10.50	Horizontal	Average
2390.00	46.99	74.00	-27.01	1.60	230	45.69	1.30	Vertical	Peak
2390.00	37.80	54.00	-16.20	1.60	230	36.50	1.30	Vertical	Average
4844.00	50.33	74.00	-23.67	1.60	230	43.93	6.40	Vertical	Peak
4844.00	42.33	54.00	-11.67	1.60	230	35.93	6.40	Vertical	Average
7266.00	51.03	74.00	-22.97	1.60	230	40.53	10.50	Vertical	Peak
7266.00	40.60	54.00	-13.40	1.60	230	30.10	10.50	Vertical	Average
2.4G Wi-Fi 802.11n-HT40_2437MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.69	74.00	-26.31	1.50	180	41.89	5.80	Horizontal	Peak
4874.00	39.04	54.00	-14.96	1.50	180	33.24	5.80	Horizontal	Average
7311.00	51.35	74.00	-22.65	1.50	180	40.55	10.80	Horizontal	Peak
7311.00	41.41	54.00	-12.59	1.50	180	30.61	10.80	Horizontal	Average
4874.00	51.21	74.00	-22.79	1.60	230	45.41	5.80	Vertical	Peak
4874.00	44.75	54.00	-9.25	1.60	230	38.95	5.80	Vertical	Average
7311.00	51.41	74.00	-22.59	1.60	230	40.61	10.80	Vertical	Peak
7311.00	41.96	54.00	-12.04	1.60	230	31.16	10.80	Vertical	Average
<p><i>Remark:</i></p> <ol style="list-style-type: none"> <i>Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)</i> <i>Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)</i> <i>Margin value = Emission Level – Limit value</i> <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i> 									

**2.4G Wi-Fi 802.11n-HT40_2452MHz - MIMO**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.31	74.00	-27.69	1.50	180	44.71	1.60	Horizontal	Peak
2483.50	35.42	54.00	-18.58	1.50	180	33.82	1.60	Horizontal	Average
4904.00	50.54	74.00	-23.46	1.50	180	44.84	5.70	Horizontal	Peak
4904.00	40.71	54.00	-13.29	1.50	180	35.01	5.70	Horizontal	Average
7356.00	50.76	74.00	-23.24	1.50	180	39.96	10.80	Horizontal	Peak
7356.00	41.90	54.00	-12.10	1.50	180	31.10	10.80	Horizontal	Average
2483.50	44.33	74.00	-29.67	1.60	230	42.73	1.60	Vertical	Peak
2483.50	34.93	54.00	-19.07	1.60	230	33.33	1.60	Vertical	Average
4904.00	47.52	74.00	-26.48	1.60	230	41.82	5.70	Vertical	Peak
4904.00	37.48	54.00	-16.52	1.60	230	31.78	5.70	Vertical	Average
7356.00	51.35	74.00	-22.65	1.60	230	40.55	10.80	Vertical	Peak
7356.00	40.74	54.00	-13.26	1.60	230	29.94	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11ax-HE40_2422MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2390.00	46.36	74.00	-27.64	1.50	180	45.06	1.30	Horizontal	Peak
2390.00	37.37	54.00	-16.63	1.50	180	36.07	1.30	Horizontal	Average
4844.00	46.42	74.00	-27.58	1.50	180	40.02	6.40	Horizontal	Peak
4844.00	40.63	54.00	-13.37	1.50	180	34.23	6.40	Horizontal	Average
7266.00	50.81	74.00	-23.19	1.50	180	40.31	10.50	Horizontal	Peak
7266.00	41.49	54.00	-12.51	1.50	180	30.99	10.50	Horizontal	Average
2390.00	46.66	74.00	-27.34	1.60	230	45.36	1.30	Vertical	Peak
2390.00	37.91	54.00	-16.09	1.60	230	36.61	1.30	Vertical	Average
4844.00	50.56	74.00	-23.44	1.60	230	44.16	6.40	Vertical	Peak
4844.00	42.22	54.00	-11.78	1.60	230	35.82	6.40	Vertical	Average
7266.00	51.19	74.00	-22.81	1.60	230	40.69	10.50	Vertical	Peak
7266.00	40.51	54.00	-13.49	1.60	230	30.01	10.50	Vertical	Average

2.4G Wi-Fi 802.11ax-HE40_2437MHz - MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
4874.00	47.40	74.00	-26.60	1.50	180	41.60	5.80	Horizontal	Peak
4874.00	38.76	54.00	-15.24	1.50	180	32.96	5.80	Horizontal	Average
7311.00	50.92	74.00	-23.08	1.50	180	40.12	10.80	Horizontal	Peak
7311.00	41.09	54.00	-12.91	1.50	180	30.29	10.80	Horizontal	Average
4874.00	50.91	74.00	-23.09	1.60	230	45.11	5.80	Vertical	Peak
4874.00	44.43	54.00	-9.57	1.60	230	38.63	5.80	Vertical	Average
7311.00	51.59	74.00	-22.41	1.60	230	40.79	10.80	Vertical	Peak
7311.00	41.58	54.00	-12.42	1.60	230	30.78	10.80	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



2.4G Wi-Fi 802.11ax-HE40_2452MHz - MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
2483.50	46.36	74.00	-27.64	1.50	180	44.76	1.60	Horizontal	Peak
2483.50	35.35	54.00	-18.65	1.50	180	33.75	1.60	Horizontal	Average
4904.00	50.04	74.00	-23.96	1.50	180	44.34	5.70	Horizontal	Peak
4904.00	41.16	54.00	-12.84	1.50	180	35.46	5.70	Horizontal	Average
7356.00	50.47	74.00	-23.53	1.50	180	39.67	10.80	Horizontal	Peak
7356.00	41.83	54.00	-12.17	1.50	180	31.03	10.80	Horizontal	Average
2483.50	44.14	74.00	-29.86	1.60	230	42.54	1.60	Vertical	Peak
2483.50	35.30	54.00	-18.70	1.60	230	33.70	1.60	Vertical	Average
4904.00	47.47	74.00	-26.53	1.60	230	41.77	5.70	Vertical	Peak
4904.00	37.18	54.00	-16.82	1.60	230	31.48	5.70	Vertical	Average
7356.00	51.57	74.00	-22.43	1.60	230	40.77	10.80	Vertical	Peak
7356.00	41.18	54.00	-12.82	1.60	230	30.38	10.80	Vertical	Average

Remark:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)*
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)*
- Margin value = Emission Level – Limit value*
- The emission levels of other frequencies are very lower than the limit and not show in test report.*

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

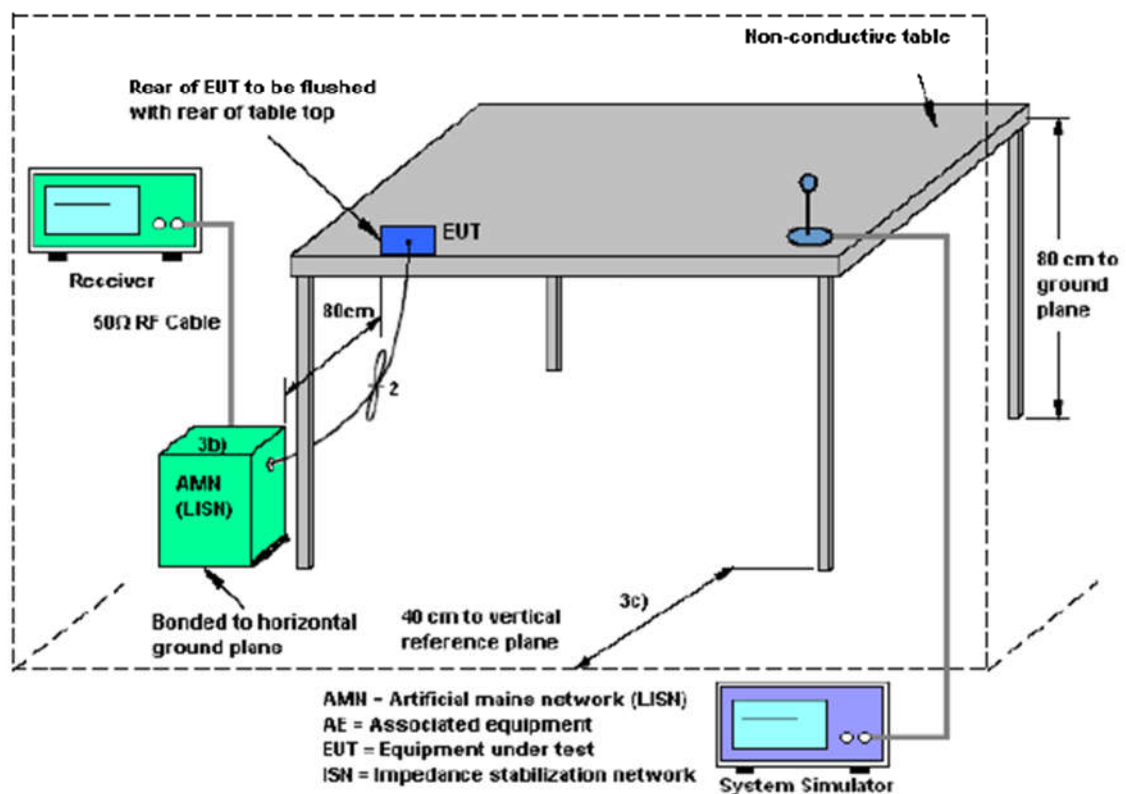
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup



2.7.4. Test Procedures

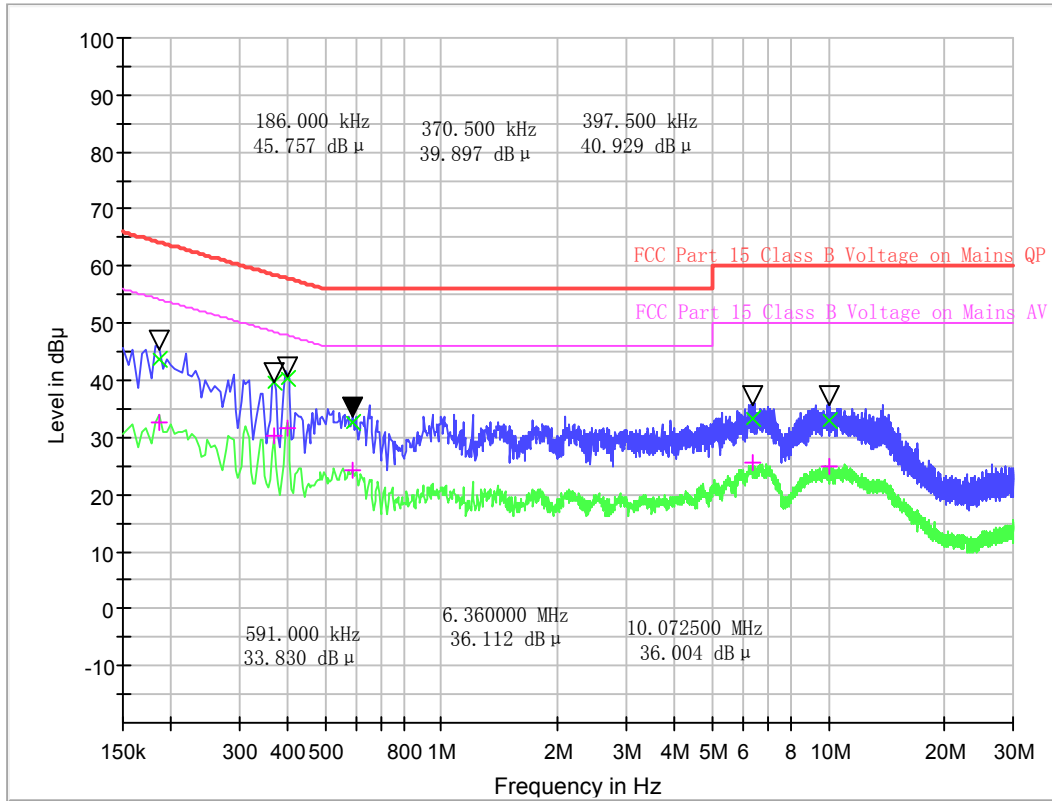
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 micrometry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.7.5. Test Results of Conducted Emission

NOTE 1: The EUT configuration of the emission tests is 2.4G WLAN Link + RJ45 (Charging from Adapter).

NOTE 2: For 30MHz to 1GHz, All of the EUT Configure mode were tested and found 802.11b -Ant0 2437MHz channel is the worst mode, the worst case is recorded in this report.

Line Phase

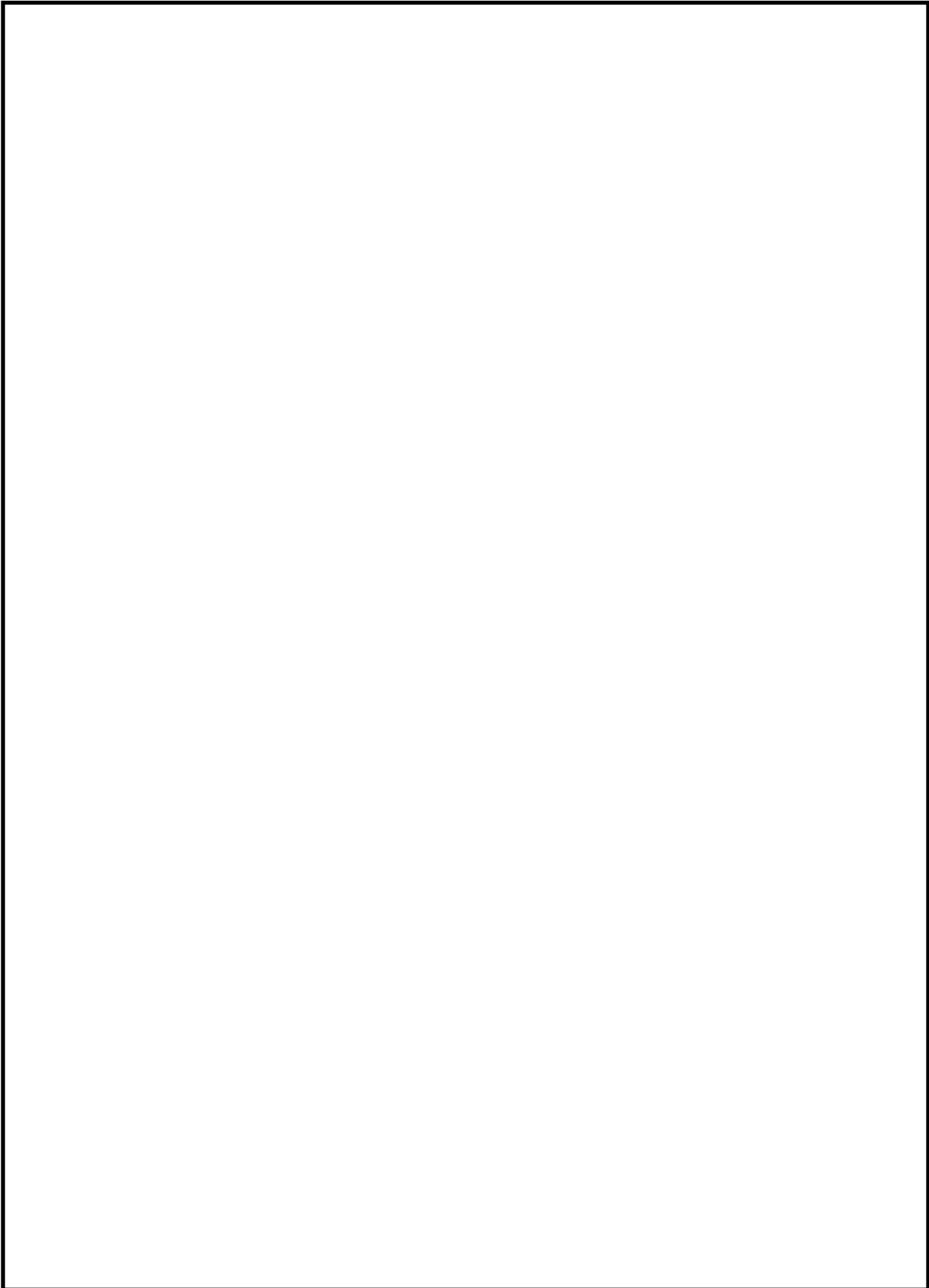


Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Cabel Loss (dB)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V)	Margin - AV (dB)	Limit - AV (dB μ V)
0.186000	43.65	32.46	0.2	10.2	20.56	64.2	21.75	54.2
0.370500	39.57	30.33	0.2	10.2	18.92	58.5	18.16	48.5
0.397500	40.29	31.48	0.2	10.2	17.62	57.9	16.43	47.9
0.591000	32.77	24.17	0.2	10.2	23.23	56.0	21.83	46.0
6.360000	33.33	25.55	0.5	10.5	26.67	60.0	24.45	50.0
10.072500	32.94	24.82	0.5	10.5	27.06	60.0	25.18	50.0

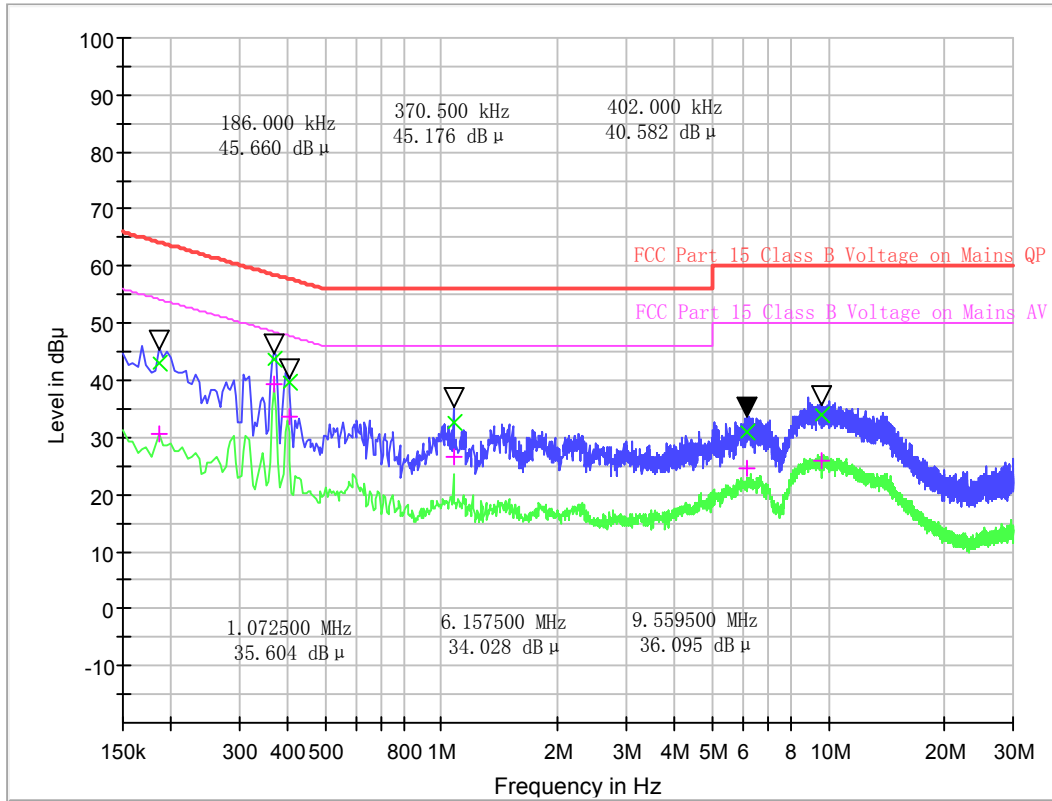
Test Result : Pass

Remark:

1. Correction factor = Cabel loss+ attenuation factor.
2. attenuation factor = 10dB.



Neutral Phase



Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Cabel Loss (dB)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V)	Margin - AV (dB)	Limit - AV (dB μ V)
0.186000	43.08	30.69	0.2	10.2	21.13	64.2	23.52	54.2
0.370500	43.84	39.33	0.2	10.2	14.65	58.5	9.16	48.5
0.402000	39.57	33.68	0.2	10.2	18.24	57.8	14.13	47.8
1.072500	32.55	26.58	0.2	10.2	23.45	56.0	19.42	46.0
6.157500	30.96	24.48	0.5	10.5	29.04	60.0	25.52	50.0
9.559500	33.86	26.03	0.5	10.5	26.14	60.0	23.97	50.0

Test Result : Pass

Remark:

1. Correction factor = Cabel loss+ attenuation factor.
2. attenuation factor = 10dB.

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRP-Z31	A141001975	2022.04.21	2023.04.20
2	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2022.07.21	2023.07.20
3	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2019.03.25	2023.03.24
4	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
5	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2020.06.19	2023.06.18
6	EMI Horn Ant. (1-18G)	ETC	1209	A150402241	2021.01.02	2024.01.01
7	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2020.06.19	2023.06.18
8	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2020.09.22	2023.09.21
9	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2021.12.23	2022.12.22
10	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2022.03.25	2023.03.24
11	Test Receiver	R&S	ESIB7	A0501375	2022.04.18	2023.04.17
12	Broadband Ant.	2786	ETC	A150402240	2021.09.16	2024.03.03
13	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2023.03.25
14	Temperature chamber	TABAI	PS-232	A8708054	2022.08.18	2023.08.17
15	Wideband Radio Communication tester	R&S	CMW500	A130101034	2021.01.26	2023.01.25
16	Test Receiver	KEYSIGHT	N9038A	A141202036	2022.07.21	2023.07.20
17	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2022.07.21	2023.07.20
18	Cable	MATCHING PAD	W7	/	2022.07.21	2023.07.20

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
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Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
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Appendix A

RF Output Power

Test Result and Data

Output Power (Peak)						
Mode	Frequency (MHz)	Ant	Power (dBm)	Total Power (dBm)	Power Limit (dBm)	Result
802.11b	2412	Ant0	20.76	/	30	Pass
802.11b	2412	Ant1	20.78	/	30	Pass
802.11b	2437	Ant0	20.69	/	30	Pass
802.11b	2437	Ant1	20.82	/	30	Pass
802.11b	2462	Ant0	20.35	/	30	Pass
802.11b	2462	Ant1	20.30	/	30	Pass
802.11g	2412	Ant0	19.33	/	30	Pass
802.11g	2412	Ant1	19.59	/	30	Pass
802.11g	2437	Ant0	19.59	/	30	Pass
802.11g	2437	Ant1	19.57	/	30	Pass
802.11g	2462	Ant0	19.66	/	30	Pass
802.11g	2462	Ant1	19.66	/	30	Pass
802.11n (HT20)	2412	Ant0	15.74	18.78	30	Pass
802.11n (HT20)	2412	Ant1	15.79		30	Pass
802.11n (HT20)	2437	Ant0	15.85	18.89	30	Pass
802.11n (HT20)	2437	Ant1	15.90		30	Pass
802.11n (HT20)	2462	Ant0	15.40	18.36	30	Pass
802.11n (HT20)	2462	Ant1	15.29		30	Pass
802.11n (HT40)	2422	Ant0	14.57	17.51	30	Pass
802.11n (HT40)	2422	Ant1	14.42		30	Pass
802.11n (HT40)	2437	Ant0	14.39	17.47	30	Pass
802.11n (HT40)	2437	Ant1	14.53		30	Pass
802.11n (HT40)	2452	Ant0	14.95	17.70	30	Pass
802.11n (HT40)	2452	Ant1	14.41		30	Pass
802.11ax (HE20)	2412	Ant0	15.51	18.56	30	Pass
802.11ax (HE20)	2412	Ant1	15.59		30	Pass
802.11ax (HE20)	2437	Ant0	15.90	18.87	30	Pass
802.11ax (HE20)	2437	Ant1	15.82		30	Pass



802.11ax (HE20)	2462	Ant0	15.32	18.35	30	Pass
802.11ax (HE20)	2462	Ant1	15.35		30	Pass
802.11ax (HE40)	2422	Ant0	14.52	17.59	30	Pass
802.11ax (HE40)	2422	Ant1	14.63		30	Pass
802.11ax (HE40)	2437	Ant0	14.60	17.65	30	Pass
802.11ax (HE40)	2437	Ant1	14.67		30	Pass
802.11ax (HE40)	2452	Ant0	14.64	17.71	30	Pass
802.11ax (HE40)	2452	Ant1	14.75		30	Pass

Note:

1) All transmit signals are completely uncorrelated with each other.

2) Total Power = $10 \cdot \log \{10^{(\text{Ant 0 Max Power}/10)} + 10^{(\text{Ant 1 Max Power}/10)}\}$.



6dB Bandwidth Test Result and Data

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	8.09	Pass
802.11b	2412	Ant1	8.11	Pass
802.11b	2437	Ant0	8.11	Pass
802.11b	2437	Ant1	8.12	Pass
802.11b	2462	Ant0	8.11	Pass
802.11b	2462	Ant1	8.11	Pass
802.11g	2412	Ant0	16.34	Pass
802.11g	2412	Ant1	16.34	Pass
802.11g	2437	Ant0	16.35	Pass
802.11g	2437	Ant1	16.35	Pass
802.11g	2462	Ant0	16.35	Pass
802.11g	2462	Ant1	16.35	Pass
802.11n (HT20)	2412	Ant0	17.31	Pass
802.11n (HT20)	2412	Ant1	17.31	Pass
802.11n (HT20)	2437	Ant0	17.58	Pass
802.11n (HT20)	2437	Ant1	17.58	Pass
802.11n (HT20)	2462	Ant0	17.58	Pass
802.11n (HT20)	2462	Ant1	17.59	Pass
802.11n (HT40)	2422	Ant0	35.82	Pass
802.11n (HT40)	2422	Ant1	35.86	Pass
802.11n (HT40)	2437	Ant0	36.36	Pass
802.11n (HT40)	2437	Ant1	36.35	Pass
802.11n (HT40)	2452	Ant0	36.08	Pass
802.11n (HT40)	2452	Ant1	36.09	Pass
802.11ax (HE20)	2412	Ant0	18.89	Pass
802.11ax (HE20)	2412	Ant1	18.93	Pass
802.11ax (HE20)	2437	Ant0	19.00	Pass
802.11ax (HE20)	2437	Ant1	18.99	Pass
802.11ax (HE20)	2462	Ant0	18.90	Pass
802.11ax (HE20)	2462	Ant1	18.99	Pass



802.11ax (HE40)	2422	Ant0	38.00	Pass
802.11ax (HE40)	2422	Ant1	37.83	Pass
802.11ax (HE40)	2437	Ant0	38.14	Pass
802.11ax (HE40)	2437	Ant1	38.07	Pass
802.11ax (HE40)	2452	Ant0	37.95	Pass
802.11ax (HE40)	2452	Ant1	37.75	Pass

6dB Bandwidth-802.11b,2412MHz,Ant0



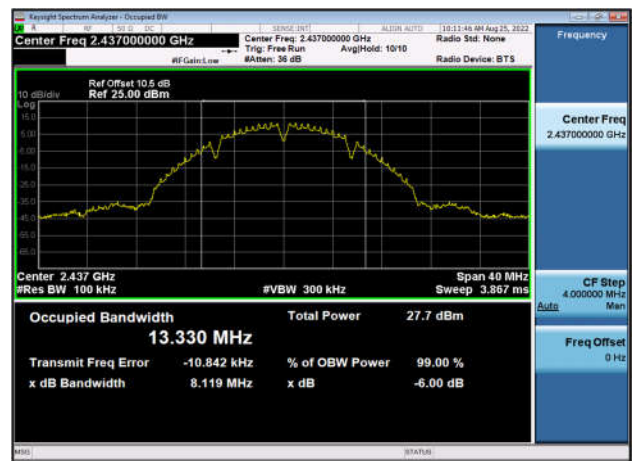
6dB Bandwidth-802.11b,2412MHz,Ant1



6dB Bandwidth-802.11b,2437MHz,Ant0



6dB Bandwidth-802.11b,2437MHz,Ant1



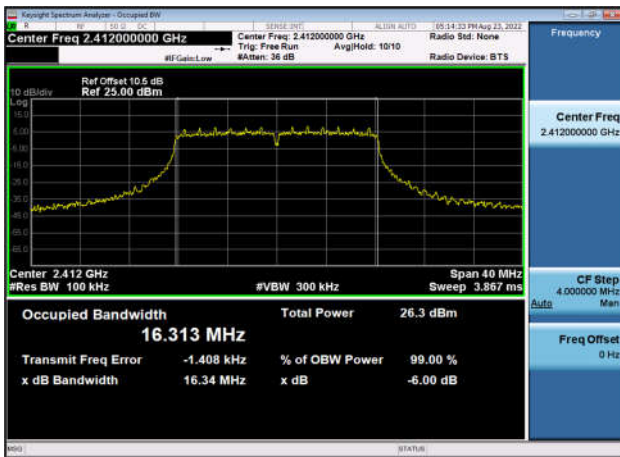
6dB Bandwidth-802.11b,2462MHz,Ant0



6dB Bandwidth-802.11b,2462MHz,Ant1



6dB Bandwidth-802.11g,2412MHz,Ant0



6dB Bandwidth-802.11g,2412MHz,Ant1



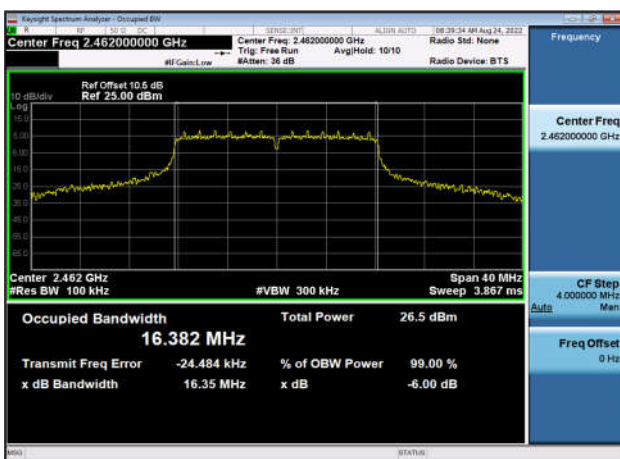
6dB Bandwidth-802.11g,2437MHz,Ant0



6dB Bandwidth-802.11g,2437MHz,Ant1



6dB Bandwidth-802.11g,2462MHz,Ant0



6dB Bandwidth-802.11g,2462MHz,Ant1



6dB Bandwidth-802.11n(HT20),2412MHz
,Ant0



6dB Bandwidth-802.11n(HT20),2412MHz
,Ant1



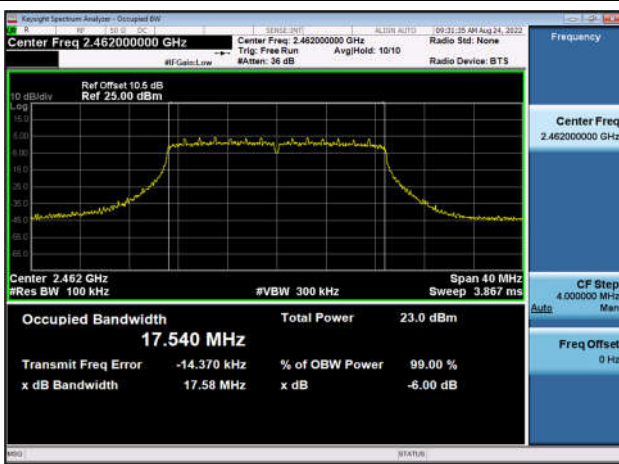
6dB Bandwidth-802.11n(HT20),2437MHz
,Ant0



6dB Bandwidth-802.11n(HT20),2437MHz
,Ant1



6dB Bandwidth-802.11n(HT20),2462MHz
,Ant0



6dB Bandwidth-802.11n(HT20),2462MHz
,Ant1



6dB Bandwidth-802.11n(HT40),2422MHz
,Ant0



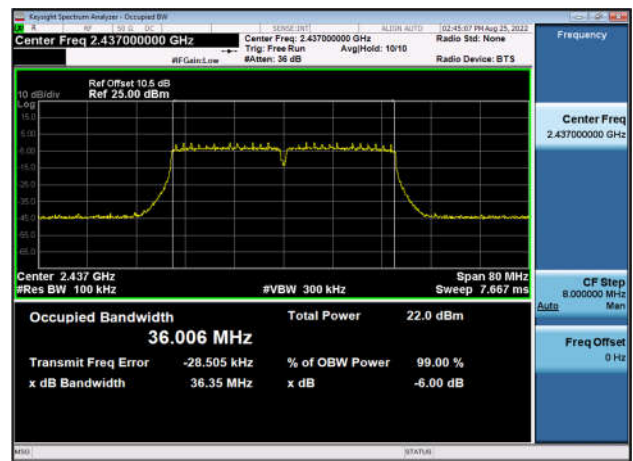
6dB Bandwidth-802.11n(HT40),2422MHz
,Ant1



6dB Bandwidth-802.11n(HT40),2437MHz
,Ant0



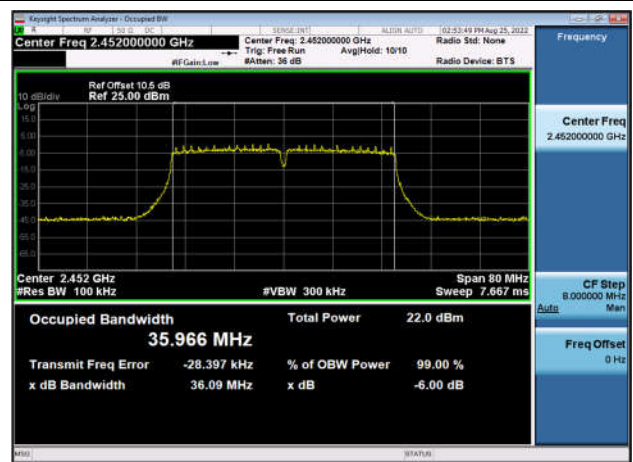
6dB Bandwidth-802.11n(HT40),2437MHz
,Ant1



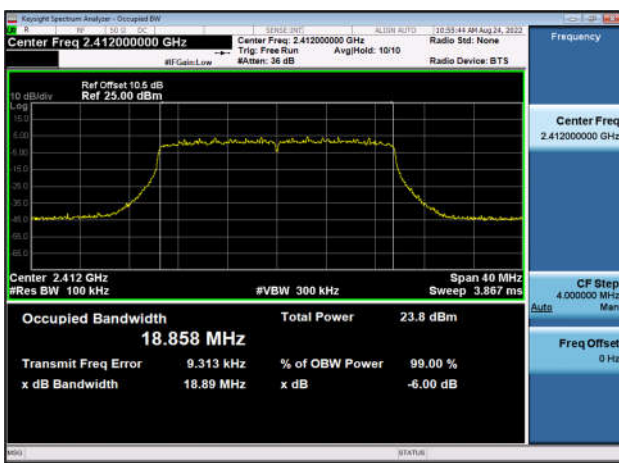
6dB Bandwidth-802.11n(HT40),2452MHz
,Ant0



6dB Bandwidth-802.11n(HT40),2452MHz
,Ant1



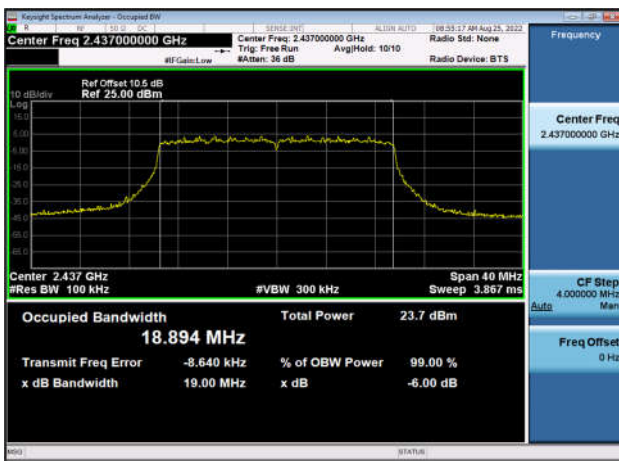
6dB Bandwidth-802.11ax(HE20),2412MHz
,Ant0



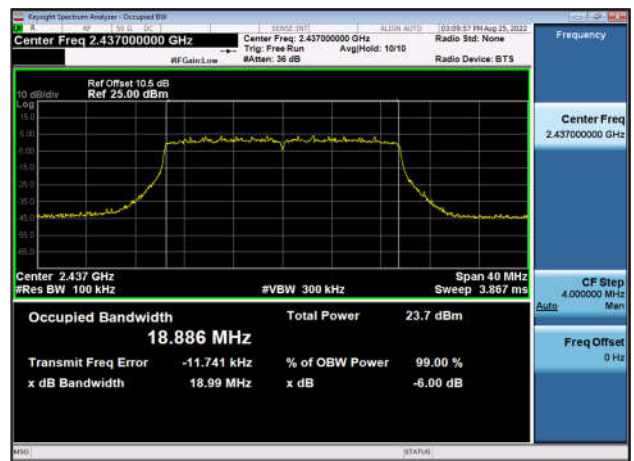
6dB Bandwidth-802.11ax(HE20),2412MHz
,Ant1



6dB Bandwidth-802.11ax(HE20),2437MHz
,Ant0



6dB Bandwidth-802.11ax(HE20),2437MHz
,Ant1



6dB Bandwidth-802.11ax(HE20),2462MHz
,Ant0



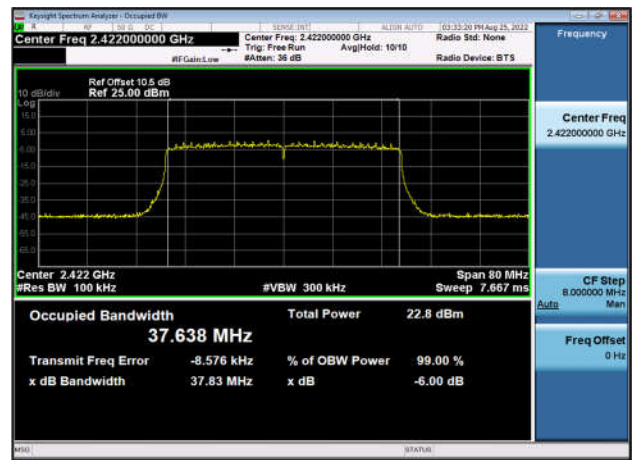
6dB Bandwidth-802.11ax(HE20),2462MHz
,Ant1



6dB Bandwidth-802.11ax(HE40),2422MHz
,Ant0



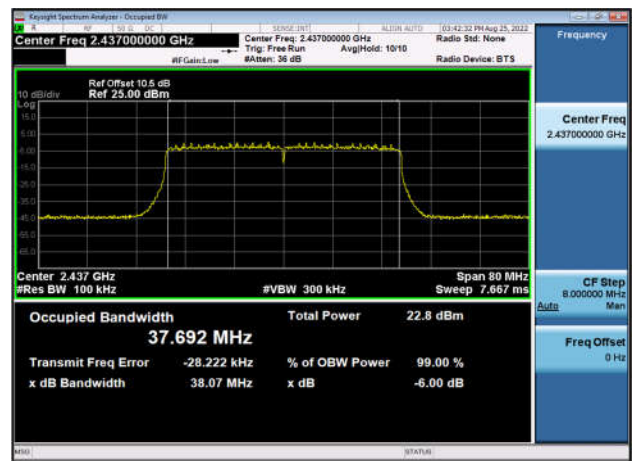
6dB Bandwidth-802.11ax(HE40),2422MHz
,Ant1



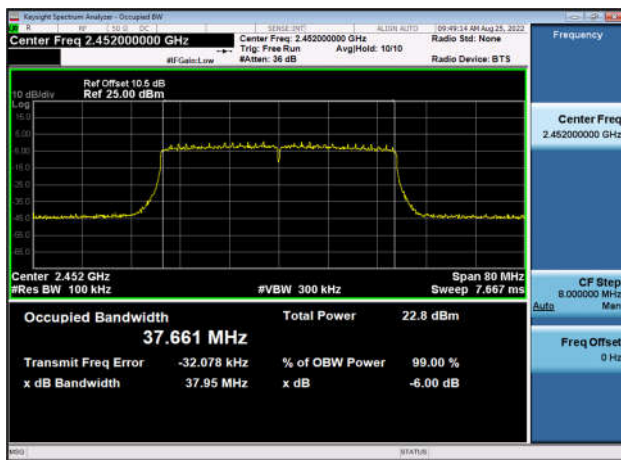
6dB Bandwidth-802.11ax(HE40),2437MHz
,Ant0



6dB Bandwidth-802.11ax(HE40),2437MHz
,Ant1



6dB Bandwidth-802.11ax(HE40),2452MHz
,Ant0



6dB Bandwidth-802.11ax(HE40),2452MHz
,Ant1



**99% BandWidth****Test Result and Data**

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	13.099	Pass
802.11b	2412	Ant1	13.119	Pass
802.11b	2437	Ant0	13.268	Pass
802.11b	2437	Ant1	13.331	Pass
802.11b	2462	Ant0	13.180	Pass
802.11b	2462	Ant1	13.290	Pass
802.11g	2412	Ant0	16.411	Pass
802.11g	2412	Ant1	16.439	Pass
802.11g	2437	Ant0	16.475	Pass
802.11g	2437	Ant1	16.485	Pass
802.11g	2462	Ant0	16.732	Pass
802.11g	2462	Ant1	16.528	Pass
802.11n (HT20)	2412	Ant0	17.563	Pass
802.11n (HT20)	2412	Ant1	17.571	Pass
802.11n (HT20)	2437	Ant0	17.600	Pass
802.11n (HT20)	2437	Ant1	17.603	Pass
802.11n (HT20)	2462	Ant0	17.605	Pass
802.11n (HT20)	2462	Ant1	17.598	Pass
802.11n (HT40)	2422	Ant0	36.173	Pass
802.11n (HT40)	2422	Ant1	36.190	Pass
802.11n (HT40)	2437	Ant0	36.311	Pass
802.11n (HT40)	2437	Ant1	36.292	Pass
802.11n (HT40)	2452	Ant0	36.242	Pass
802.11n (HT40)	2452	Ant1	36.238	Pass
802.11ax (HE20)	2412	Ant0	18.911	Pass
802.11ax (HE20)	2412	Ant1	18.931	Pass
802.11ax (HE20)	2437	Ant0	18.949	Pass
802.11ax (HE20)	2437	Ant1	18.952	Pass
802.11ax (HE20)	2462	Ant0	18.948	Pass



802.11ax (HE20)	2462	Ant1	18.946	Pass
802.11ax (HE40)	2422	Ant0	37.861	Pass
802.11ax (HE40)	2422	Ant1	37.884	Pass
802.11ax (HE40)	2437	Ant0	37.953	Pass
802.11ax (HE40)	2437	Ant1	37.974	Pass
802.11ax (HE40)	2452	Ant0	37.889	Pass
802.11ax (HE40)	2452	Ant1	37.911	Pass

99% Bandwidth-802.11b,2412MHz,Ant0



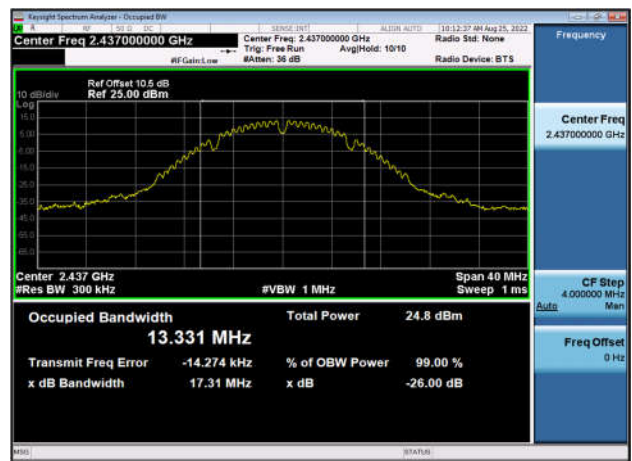
99% Bandwidth-802.11b,2412MHz,Ant1



99% Bandwidth-802.11b,2437MHz,Ant0



99% Bandwidth-802.11b,2437MHz,Ant1



99% Bandwidth-802.11b,2462MHz,Ant0



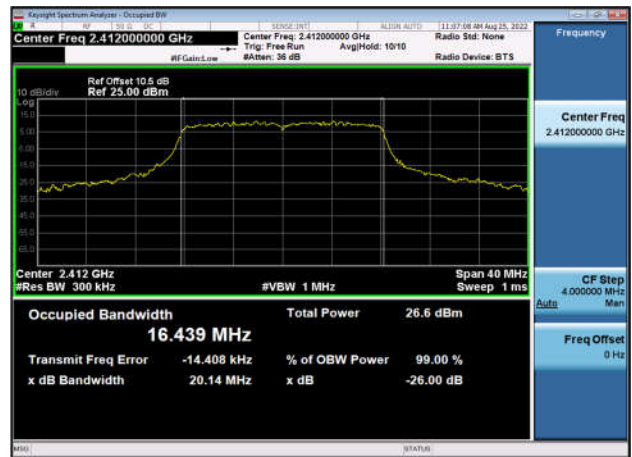
99% Bandwidth-802.11b,2462MHz,Ant1



99% Bandwidth-802.11g,2412MHz,Ant0



99% Bandwidth-802.11g,2412MHz,Ant1



99% Bandwidth-802.11g,2437MHz,Ant0



99% Bandwidth-802.11g,2437MHz,Ant1



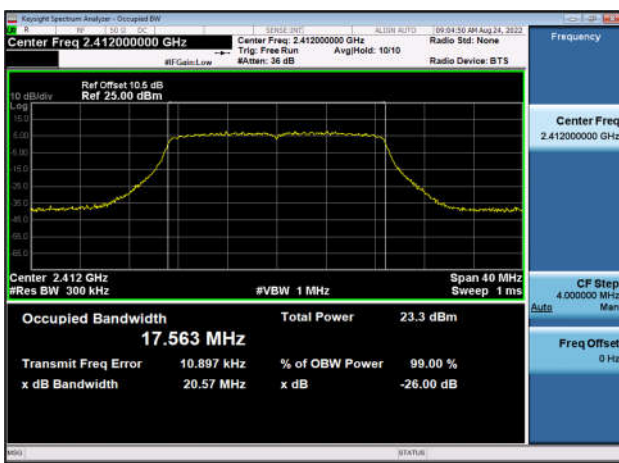
99% Bandwidth-802.11g,2462MHz,Ant0



99% Bandwidth-802.11g,2462MHz,Ant1



99% Bandwidth-802.11n(HT20),2412MHz
,Ant0



99% Bandwidth-802.11n(HT20),2412MHz
,Ant1



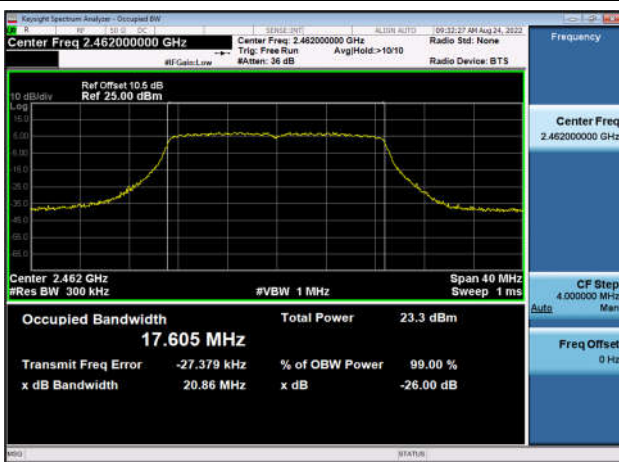
99% Bandwidth-802.11n(HT20),2437MHz
,Ant0



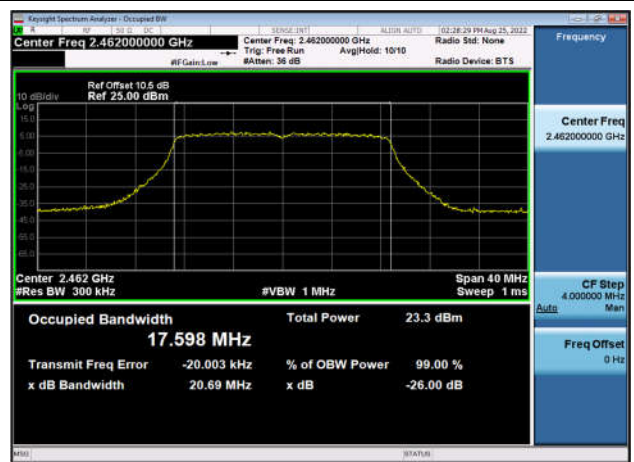
99% Bandwidth-802.11n(HT20),2437MHz
,Ant1



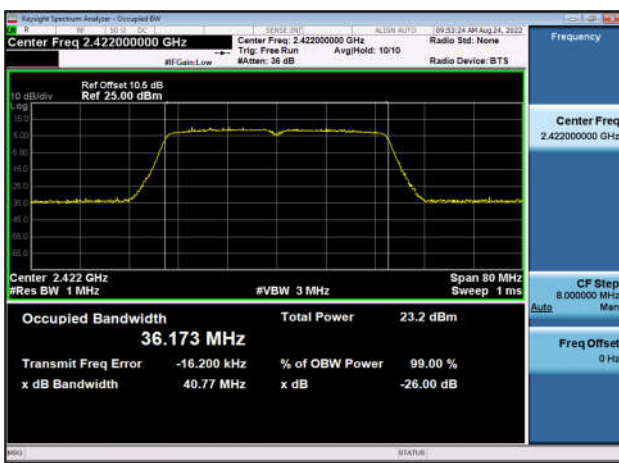
99% Bandwidth-802.11n(HT20),2462MHz
,Ant0



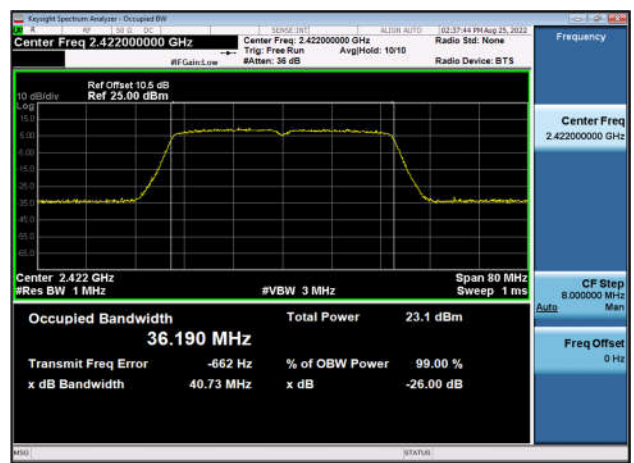
99% Bandwidth-802.11n(HT20),2462MHz
,Ant1



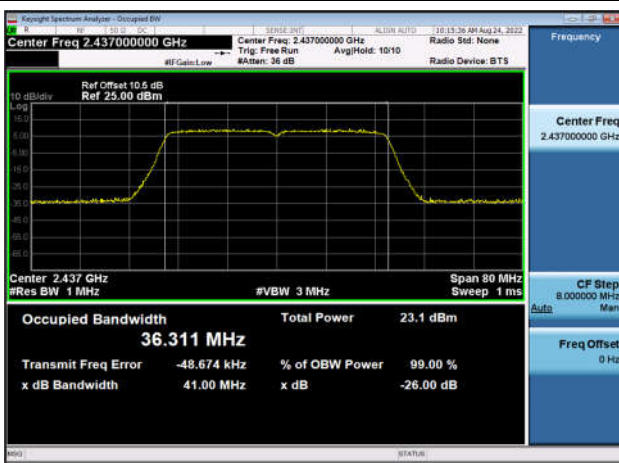
99% Bandwidth-802.11n(HT40),2422MHz
,Ant0



99% Bandwidth-802.11n(HT40),2422MHz
,Ant1



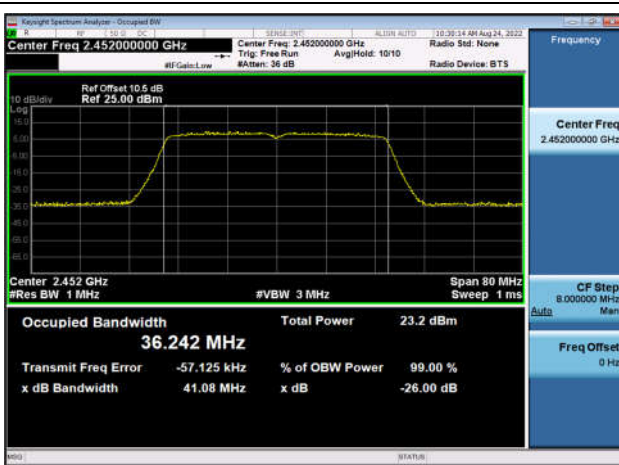
99% Bandwidth-802.11n(HT40),2437MHz
,Ant0



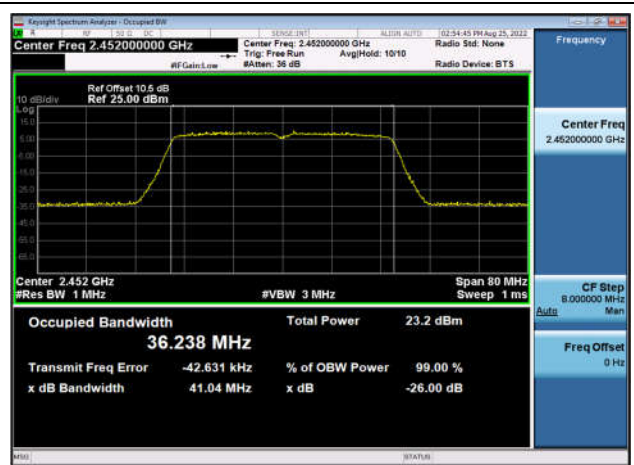
99% Bandwidth-802.11n(HT40),2437MHz
,Ant1



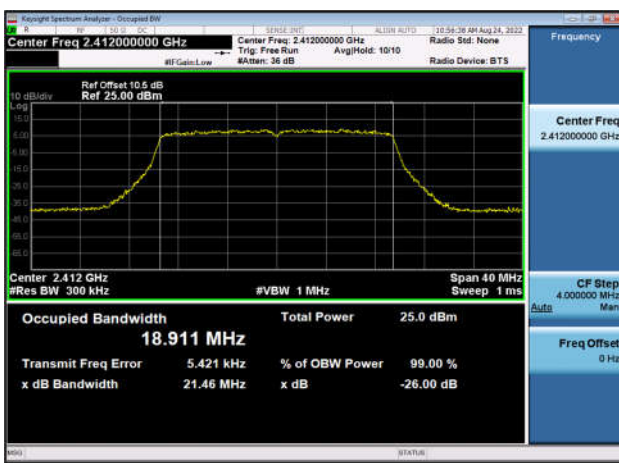
99% Bandwidth-802.11n(HT40),2452MHz
,Ant0



99% Bandwidth-802.11n(HT40),2452MHz
,Ant1



99% Bandwidth-802.11ax(HE20),2412MHz
,Ant0



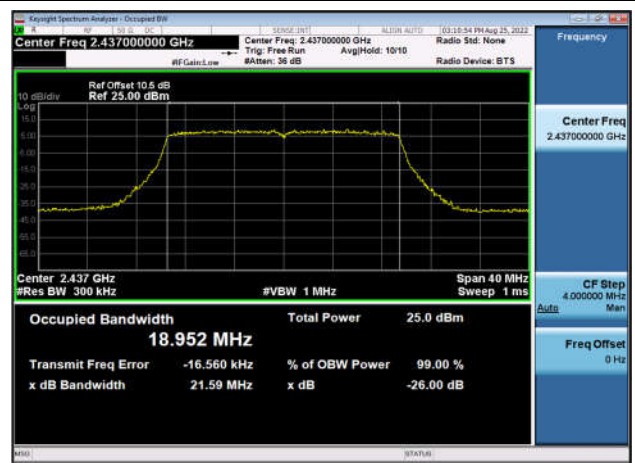
99% Bandwidth-802.11ax(HE20),2412MHz
,Ant1



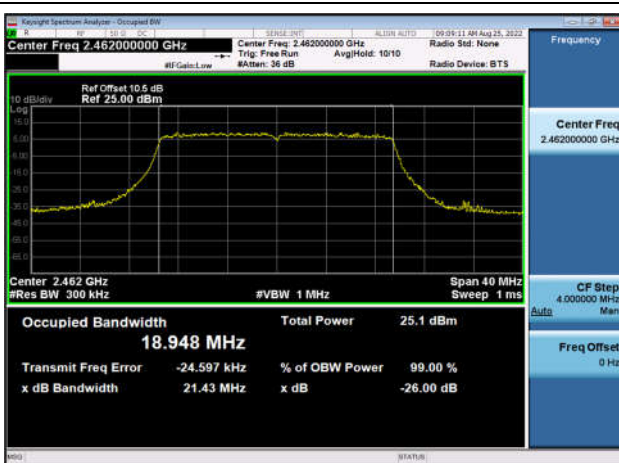
99% Bandwidth-802.11ax(HE20),2437MHz
,Ant0



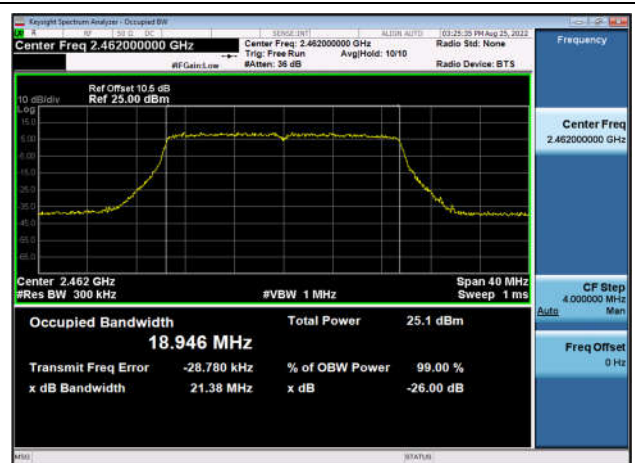
99% Bandwidth-802.11ax(HE20),2437MHz
,Ant1



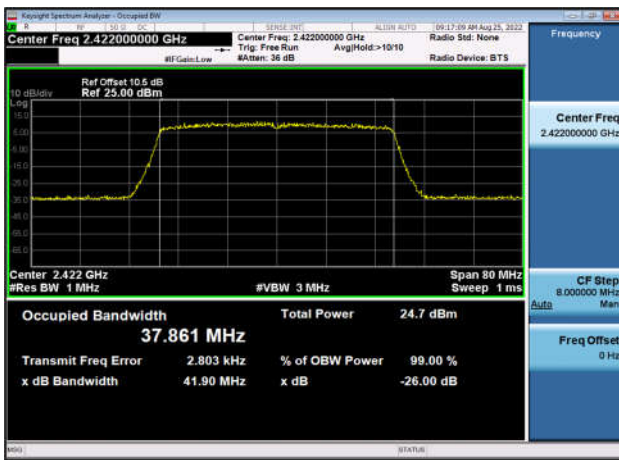
99% Bandwidth-802.11ax(HE20),2462MHz
,Ant0



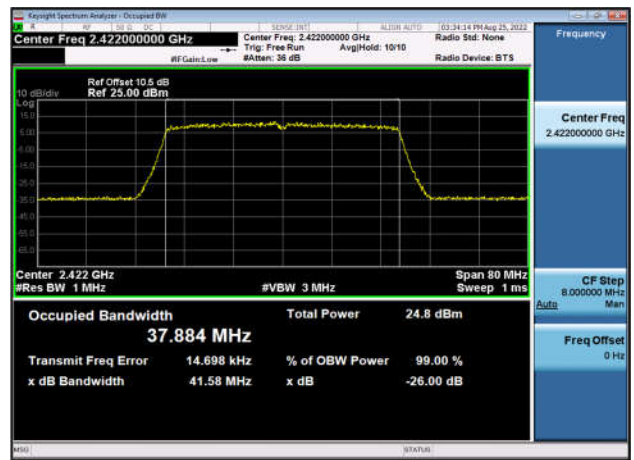
99% Bandwidth-802.11ax(HE20),2462MHz
,Ant1



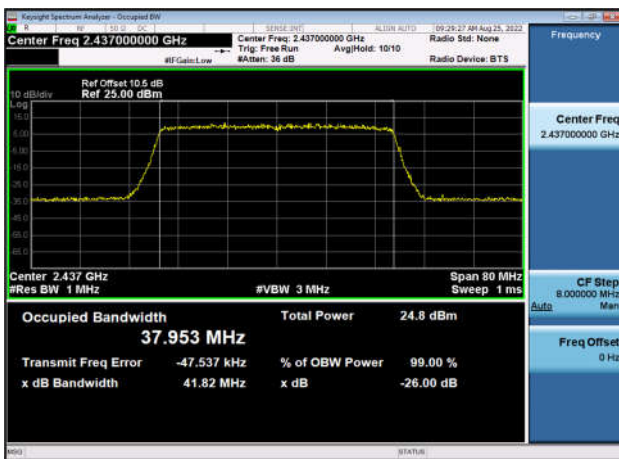
99% Bandwidth-802.11ax(HE40),2422MHz
,Ant0



99% Bandwidth-802.11ax(HE40),2422MHz
,Ant1



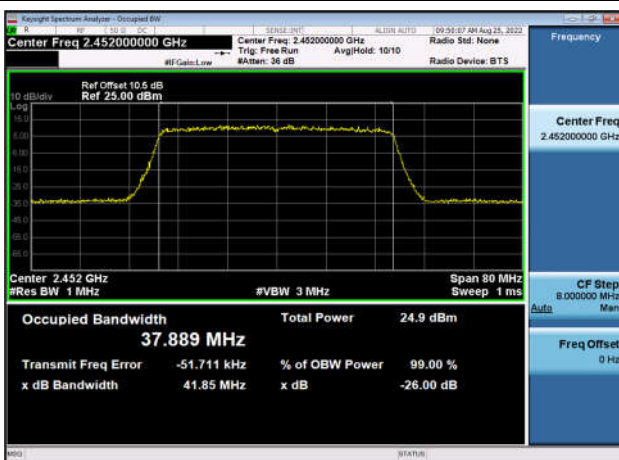
99% Bandwidth-802.11ax(HE40),2437MHz
,Ant0



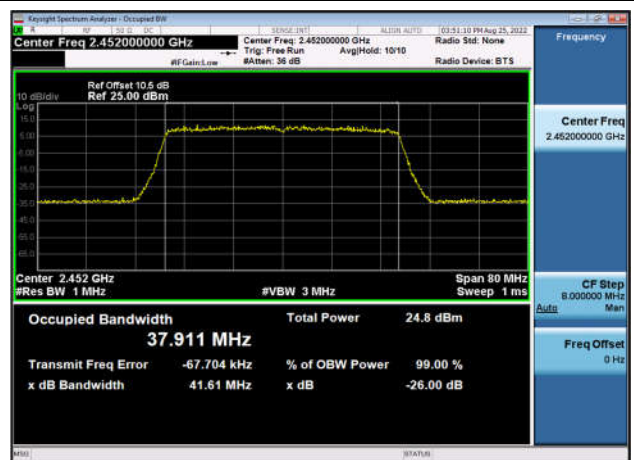
99% Bandwidth-802.11ax(HE40),2437MHz
,Ant1



99% Bandwidth-802.11ax(HE40),2452MHz
,Ant0



99% Bandwidth-802.11ax(HE40),2452MHz
,Ant1





**Power Spectral Density
Test Result and Data**

WLAN AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	PSD (dBm)	Total PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11b	2412	Ant0	-2.319	/	3	8	Pass
802.11b	2412	Ant1	-3.448	/	3	8	Pass
802.11b	2437	Ant0	-1.588	/	3	8	Pass
802.11b	2437	Ant1	-1.686	/	3	8	Pass
802.11b	2462	Ant0	-2.331	/	3	8	Pass
802.11b	2462	Ant1	-3.582	/	3	8	Pass
802.11g	2412	Ant0	-6.277	/	3	8	Pass
802.11g	2412	Ant1	-6.442	/	3	8	Pass
802.11g	2437	Ant0	-5.657	/	3	8	Pass
802.11g	2437	Ant1	-6.811	/	3	8	Pass
802.11g	2462	Ant0	-6.529	/	3	8	Pass
802.11g	2462	Ant1	-4.568	/	3	8	Pass
802.11n (HT20)	2412	Ant0	-9.243	-6.08	3	8	Pass
802.11n (HT20)	2412	Ant1	-8.939		3	8	Pass
802.11n (HT20)	2437	Ant0	-9.395	-6.05	3	8	Pass
802.11n (HT20)	2437	Ant1	-8.746		3	8	Pass
802.11n (HT20)	2462	Ant0	-8.793	-5.69	3	8	Pass
802.11n (HT20)	2462	Ant1	-8.617		3	8	Pass
802.11n (HT40)	2422	Ant0	-13.230	-9.92	3	8	Pass
802.11n (HT40)	2422	Ant1	-12.656		3	8	Pass
802.11n (HT40)	2437	Ant0	-13.190	-9.84	3	8	Pass
802.11n (HT40)	2437	Ant1	-12.542		3	8	Pass
802.11n (HT40)	2452	Ant0	-12.673	-9.77	3	8	Pass
802.11n (HT40)	2452	Ant1	-12.884		3	8	Pass
802.11ax (HE20)	2412	Ant0	-10.545	-7.43	3	8	Pass
802.11ax (HE20)	2412	Ant1	-10.341		3	8	Pass
802.11ax (HE20)	2437	Ant0	-10.475	-7.67	3	8	Pass
802.11ax (HE20)	2437	Ant1	-10.891		3	8	Pass



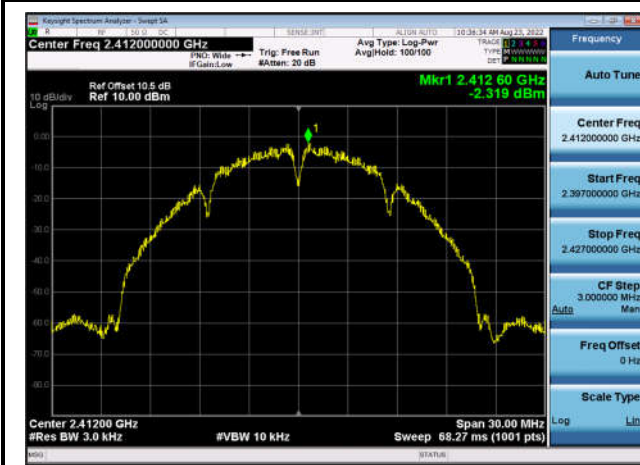
802.11ax (HE20)	2462	Ant0	-10.474	-7.24	3	8	Pass
802.11ax (HE20)	2462	Ant1	-10.034		3	8	Pass
802.11ax (HE40)	2422	Ant0	-13.820	-10.03	3	8	Pass
802.11ax (HE40)	2422	Ant1	-12.372		3	8	Pass
802.11ax (HE40)	2437	Ant0	-14.141	-10.98	3	8	Pass
802.11ax (HE40)	2437	Ant1	-13.847		3	8	Pass
802.11ax (HE40)	2452	Ant0	-13.526	-10.57	3	8	Pass
802.11ax (HE40)	2452	Ant1	-13.627		3	8	Pass

Note:

1) ANT9 and ANT7 is 2*2MIMO.

2) Total PSD = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$.

Power spectral density-802.11b
,2412MHz,Ant0



Power spectral density-802.11b
,2412MHz,Ant1



Power spectral density-802.11b
,2437MHz,Ant0



Power spectral density-802.11b
,2437MHz,Ant1



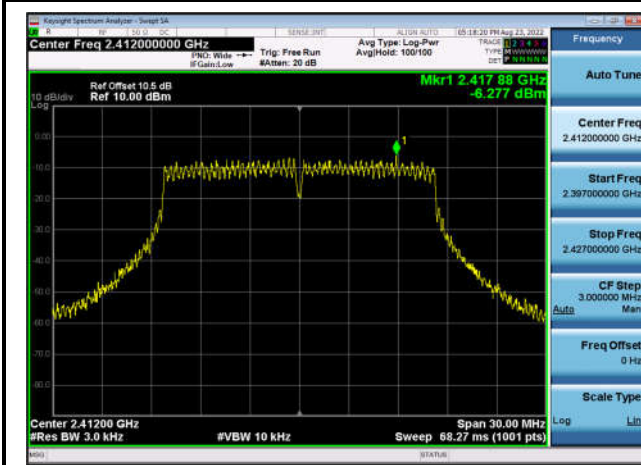
Power spectral density-802.11b
,2462MHz,Ant0



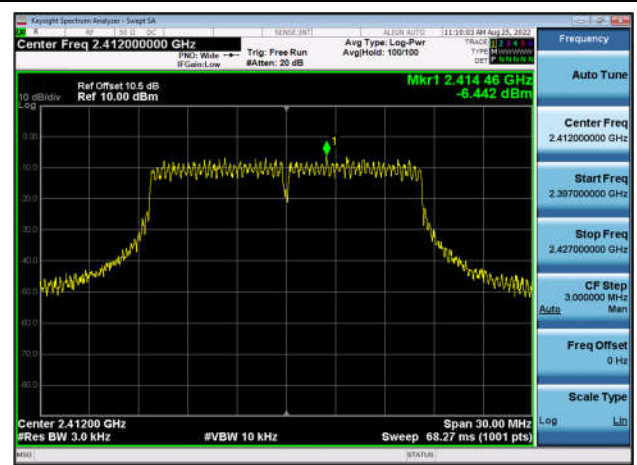
Power spectral density-802.11b
,2462MHz,Ant1



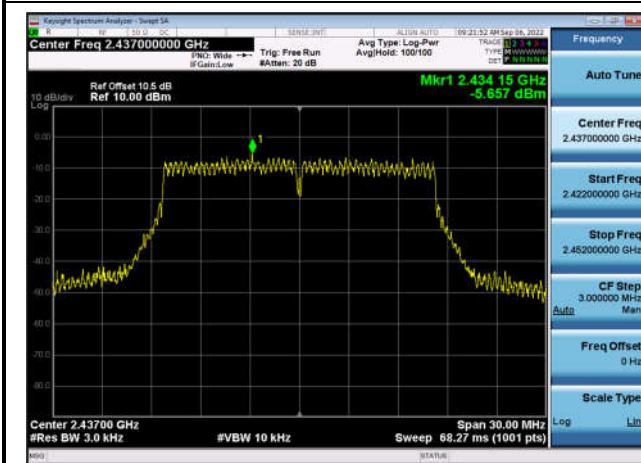
Power spectral density-802.11g
,2412MHz,Ant0



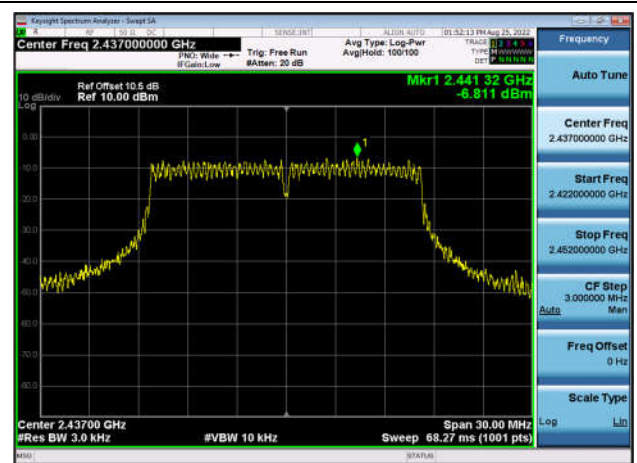
Power spectral density-802.11g
,2412MHz,Ant1



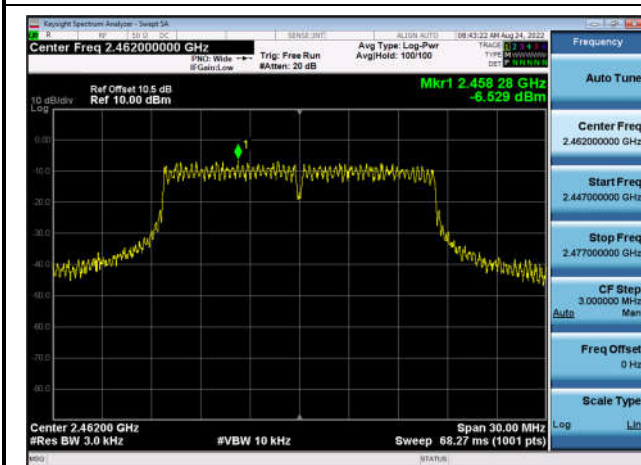
Power spectral density-802.11g
,2437MHz,Ant0



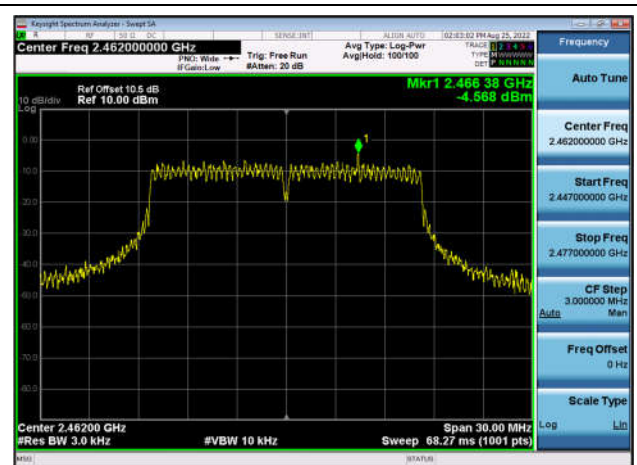
Power spectral density-802.11g
,2437MHz,Ant1



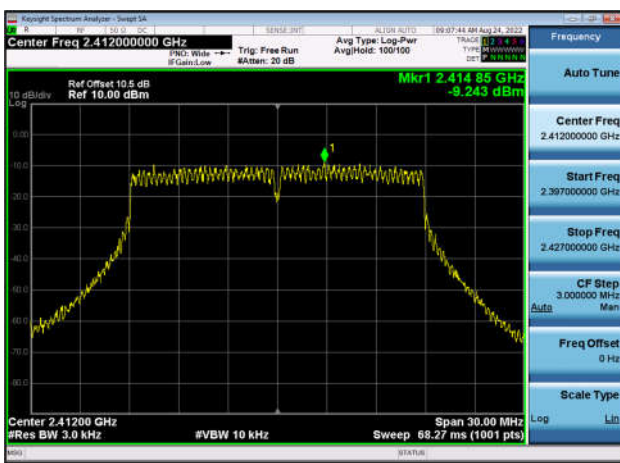
Power spectral density-802.11g
,2462MHz,Ant0



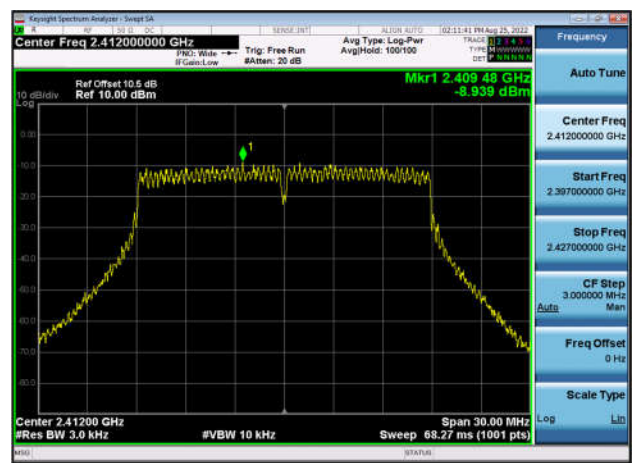
Power spectral density-802.11g
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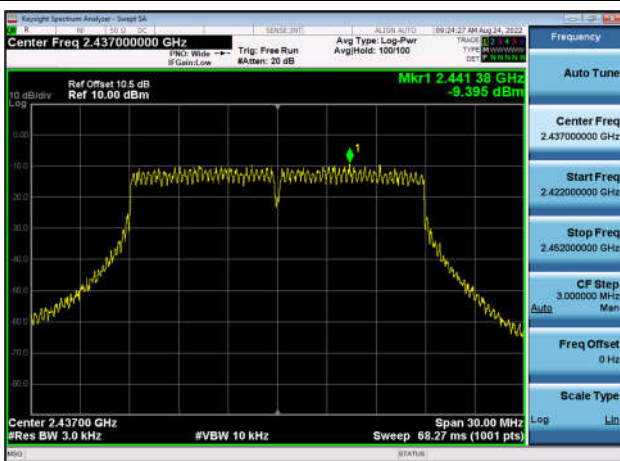
Power spectral density-802.11n(HT20)
,2412MHz,Ant0



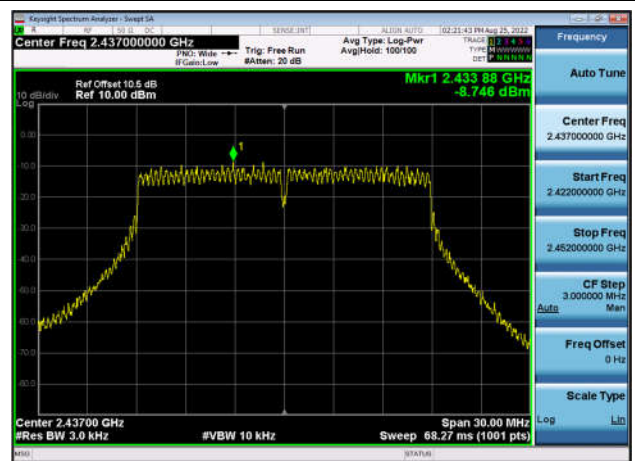
Power spectral density-802.11n(HT20)
,2412MHz,Ant1



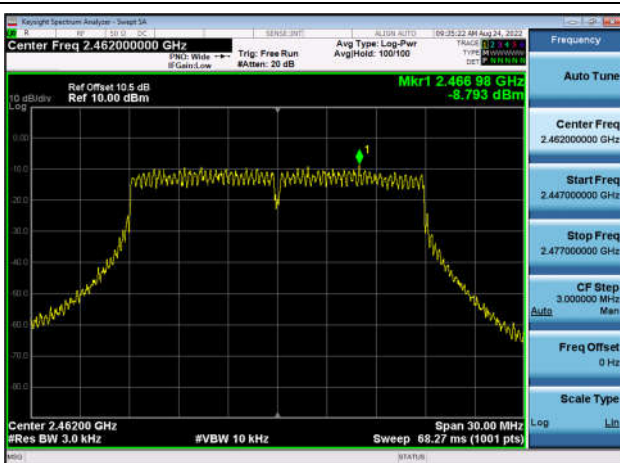
Power spectral density-802.11n(HT20)
,2437MHz,Ant0



Power spectral density-802.11n(HT20)
,2437MHz,Ant1



Power spectral density-802.11n(HT20)
,2462MHz,Ant0



Power spectral density-802.11n(HT20)
,2462MHz,Ant1

