

FCC TEST REPORT

Client Name : Autel Intelligent Tech. Corp., Ltd.

Address : 7th-8th, 10th Floor, Bldg. B1, Zhiyuan,Xueyuan Rd. Xili,
Nanshan Shenzhen China

Product Name : ADVANCED DIAGNOSTICS & INFORMATION SYSTEM

Date : Aug. 06, 2021

Shenzhen Anbotech Compliance Laboratory Limited



Contents

1. General Information.....	5
1.1. Client Information.....	5
1.2. Description of Device (EUT).....	5
1.3. Auxiliary Equipment Used During Test.....	7
1.4. Description of Test Modes.....	7
1.5. List of channels.....	8
1.6. Description Of Test Setup.....	9
1.7. Test Equipment List.....	10
1.8. Measurement Uncertainty.....	11
1.9. Description of Test Facility.....	11
2. Summary of Test Results.....	12
3. Conducted Emission Test.....	13
3.1. Test Standard and Limit.....	13
3.2. Test Setup.....	13
3.3. Test Procedure.....	13
4. Radiation Spurious Emission and Band Edge.....	18
4.1. Test Standard and Limit.....	18
4.2. Test Setup.....	18
4.3. Test Procedure.....	19
4.4. Test Data.....	20
5. Maximum Output Power Test.....	31
5.1. Test Standard and Limit.....	31
5.2. Test Setup.....	31
5.3. Test Procedure.....	31
5.4. Test Data.....	31
6. 6DB Occupy Bandwidth Test.....	32
6.1. Test Standard and Limit.....	32
6.2. Test Setup.....	32
6.3. Test Procedure.....	32
6.4. Test Data.....	32
7. Power Spectral Density Test.....	33
7.1. Test Standard and Limit.....	33
7.2. Test Setup.....	33
7.3. Test Procedure.....	33
7.4. Test Data.....	33
8. 100kHz Bandwidth of Frequency Band Edge Requirement.....	34
8.1. Test Standard and Limit.....	34
8.2. Test Setup.....	34



8.3. Test Procedure.....	34
8.4. Test Data.....	34
9. Antenna Requirement.....	35
9.1. Test Standard and Requirement.....	35
9.2. Antenna Connected Construction.....	35
APPENDIX I -- TEST SETUP PHOTOGRAPH.....	36
APPENDIX II -- EXTERNAL PHOTOGRAPH.....	38
APPENDIX III -- INTERNAL PHOTOGRAPH.....	38
APPENDIX IV -- Appendix Test Data.....	39



TEST REPORT

Applicant : Autel Intelligent Tech. Corp., Ltd.
Manufacturer : Autel Intelligent Tech. Corp., Ltd.
Product Name : ADVANCED DIAGNOSTICS & INFORMATION SYSTEM
Model No. : MaxiSys MS906 Pro
Trade Mark : AUTEL
Rating(s) : Input: DC 12V, 3A (with DC 3.85V, 11600mAh battery inside)
Test Standard(s) : **FCC Part15 Subpart C, Section 15.247**
Test Method(s) : **ANSI C63.10: 2013, KDB 558074 D01 15.247 Meas Guidance v05r02**

The device described above is tested by Shenzhen Anbotech Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotech Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotech Compliance Laboratory Limited.

Date of Receipt

Apr. 16, 2021

Date of Test

Apr. 16~Jun. 18, 2021

Prepared by



(Ella Liang)

Approved & Authorized Signer



(Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	Autel Intelligent Tech. Corp., Ltd.
Address	:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan,Xueyuan Rd. Xili, Nanshan Shenzhen China
Manufacturer	:	Autel Intelligent Tech. Corp., Ltd.
Address	:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan,Xueyuan Rd. Xili, Nanshan Shenzhen China
Factory 1	:	Autel Intelligent Technology Corp., Ltd. Guangming Branch
Address	:	7F&6F, East Wing, Building 2, and 6F of Electronical Building, Yanxiang Industrial Zone, Gaoxin Rd, Dongzhou Community of Guangming New District, Shenzhen
Factory 2	:	AUTEL VIETNAM COMPANY LIMITED
Address	:	4th Floor, Factory#6, Land#CN1, An Duong Industrial Zone, Hong Phong Township, An Duong County, Hai Phong, Viet Nam

1.2. Description of Device (EUT)

Product Name	:	ADVANCED DIAGNOSTICS & INFORMATION SYSTEM
Model No.	:	MaxiSys MS906 Pro
Trade Mark	:	AUTEL
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter/ DC 3.85V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Product Description	Operation Frequency:	BDR+EDR: 2402-2480MHz WiFi 2.4G: 802.11b/ g/ n(HT20): 2412-2462MHz WiFi 5.1G: 5180MHz~5240MHz WiFi 5.8G: 5745MHz~5825MHz
	Number of Channel:	BDR+EDR: 79 Channels WiFi 2.4G: 11 Channels for 802.11g/ n(HT20) WiFi 5.2G: 4 Channels for 802.11a/n(HT20)/ac(HT20) 2 Channels for 802.11n(HT40)/ac(HT40) 1 Channels for 802.11ac(HT80) WiFi 5.8G: 5 Channels for 802.11a/n(HT20)/ac(HT20) 2 Channels for 802.11n(HT40)/ac(HT40) 1 Channels for 802.11ac(HT80)
	Modulation Type:	BDR+EDR: GFSK, $\pi/4$ -DQPSK, 8-DPSK WiFi 2.4G: CCK, DQPSK, DBPSK for DSSS

		64QAM, 16QAM, QPSK, BPSK for OFDM WiFi 5G: OFDM with BPSK/QPSK/16QAM/64QAM/256QAM
	Antenna Type:	BDR+EDR: Ceramic antenna WiFi 2.4G&WiFi 5.1G&WiFi 5.8G ANT1: PIFA Antenna WiFi 2.4G&WiFi 5.1G&WiFi 5.8G ANT2: PIFA Antenna
	Antenna Gain(Peak):	BDR+EDR: 0dBi WiFi 2.4G ANT 1: 3.4dBi WiFi 2.4G ANT 2: 3.4dBi WiFi 5.1G ANT 1: 3.4dBi WiFi 5.1G ANT 2: 3.4dBi WiFi 5.8G ANT 1: 3.4 dBi WiFi 5.8G ANT 2: 3.4dBi
	Directional Gain:	WiFi 2.4G: 6.41dBi WiFi 5.1G: 6.41dBi WiFi 5.8G: 6.41dBi

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) This report is for WIFI 2.4G module.

1.3. Auxiliary Equipment Used During Test

N/A	
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1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11n HT20	1 to 11	1, 6, 11	OFDM	6.5

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	6.5

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	6.5

BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity

architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	6.5

ANTENNA PORT CONDUCTED MEASUREMENT:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

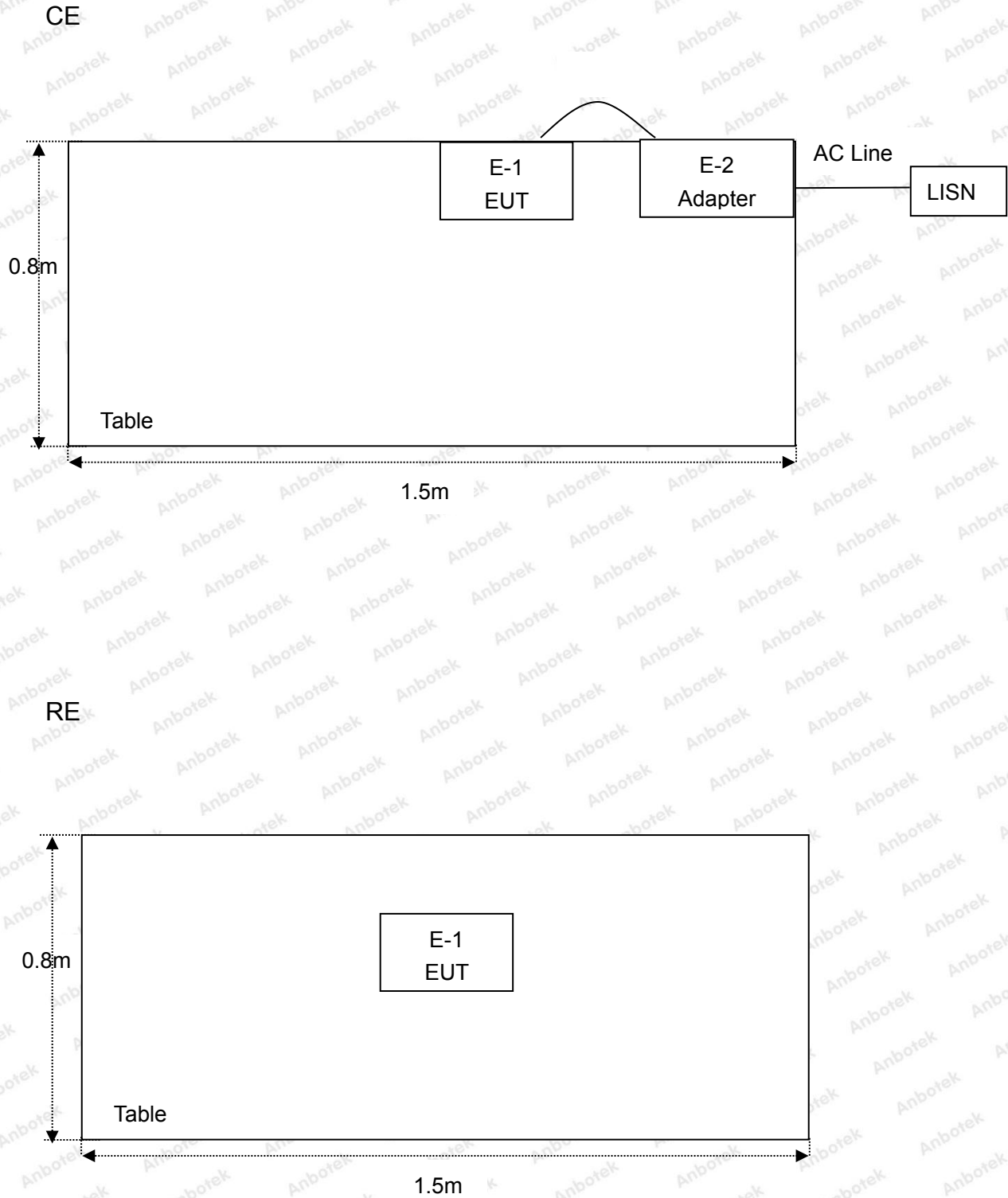
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Test Channel	Modulation Tech.	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1.0
802.11g	1 to 11	1, 6, 11	OFDM	6.0
802.11n HT20	1 to 11	1, 6, 11	OFDM	6.5

1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

1.6. Description Of Test Setup

1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 26, 2020	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 26, 2020	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 26, 2020	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 26, 2020	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 26, 2020	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 02, 2020	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 02, 2020	2 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Nov. 02, 2020	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 26, 2020	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 26, 2020	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 26, 2020	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 26, 2020	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26, 2020	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 26, 2020	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 26, 2020	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 26, 2020	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, 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. Registration No. 184111, September 30, 2020.

ISED-Registration No.: 8058A

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

Test Location

Shenzhen Anbotech Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		



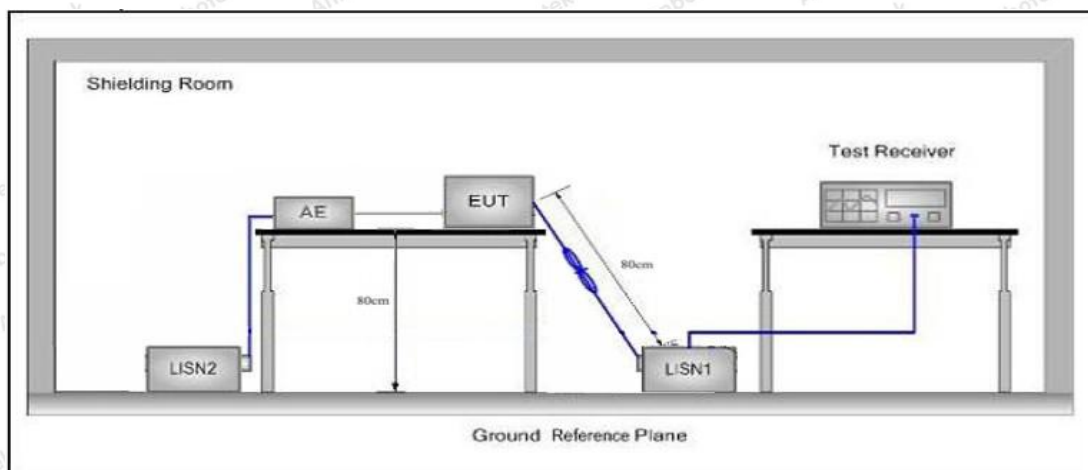
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

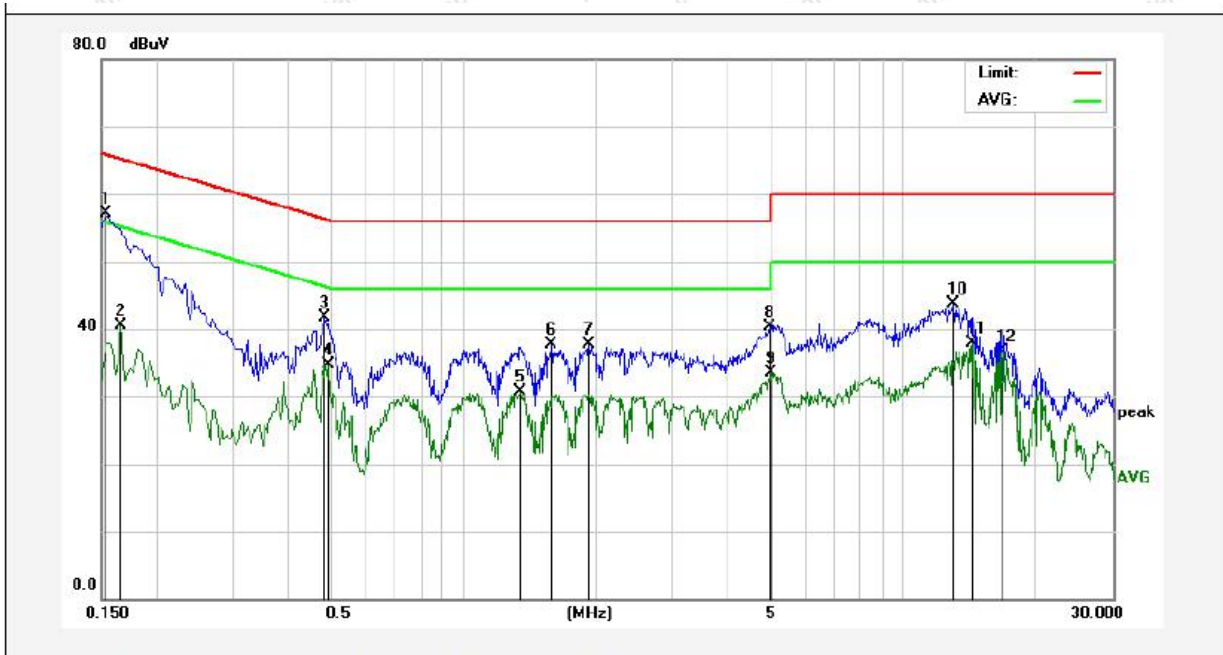
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, and found the 802.11n HT20 CH06 (ANT1+ANT2) of which is the worst case, only the worst case is recorded in the report.

Conducted Emission Test Data

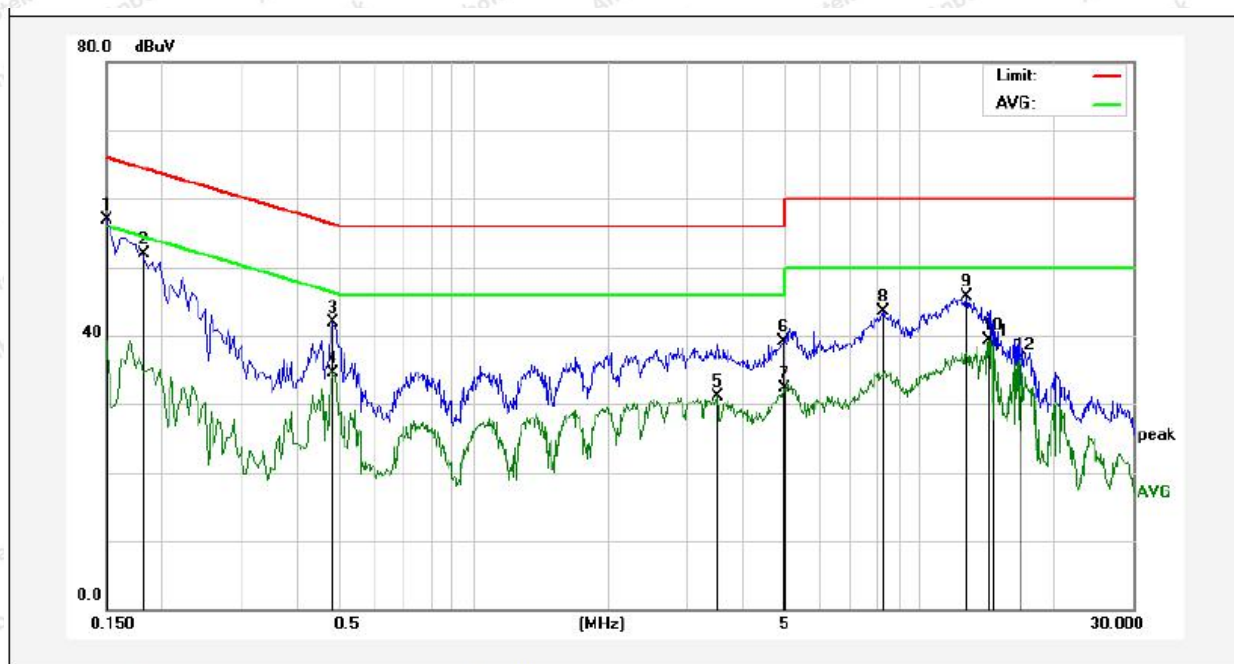
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH06 (ANT1+ANT2)
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 24.4°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	37.13	19.90	57.03	65.78	-8.75	QP	
2	0.1660	20.55	19.90	40.45	55.15	-14.70	AVG	
3	0.4860	21.64	19.97	41.61	56.24	-14.63	QP	
4	0.4940	14.76	19.98	34.74	46.10	-11.36	AVG	
5	1.3500	10.57	20.13	30.70	46.00	-15.30	AVG	
6	1.5900	17.48	20.13	37.61	56.00	-18.39	QP	
7	1.9300	17.52	20.14	37.66	56.00	-18.34	QP	
8	4.9660	20.06	20.21	40.27	56.00	-15.73	QP	
9	4.9940	13.29	20.21	33.50	46.00	-12.50	AVG	
10	12.9980	23.34	20.29	43.63	60.00	-16.37	QP	
11	14.4100	17.63	20.27	37.90	50.00	-12.10	AVG	
12	16.7780	16.47	20.29	36.76	50.00	-13.24	AVG	

Conducted Emission Test Data

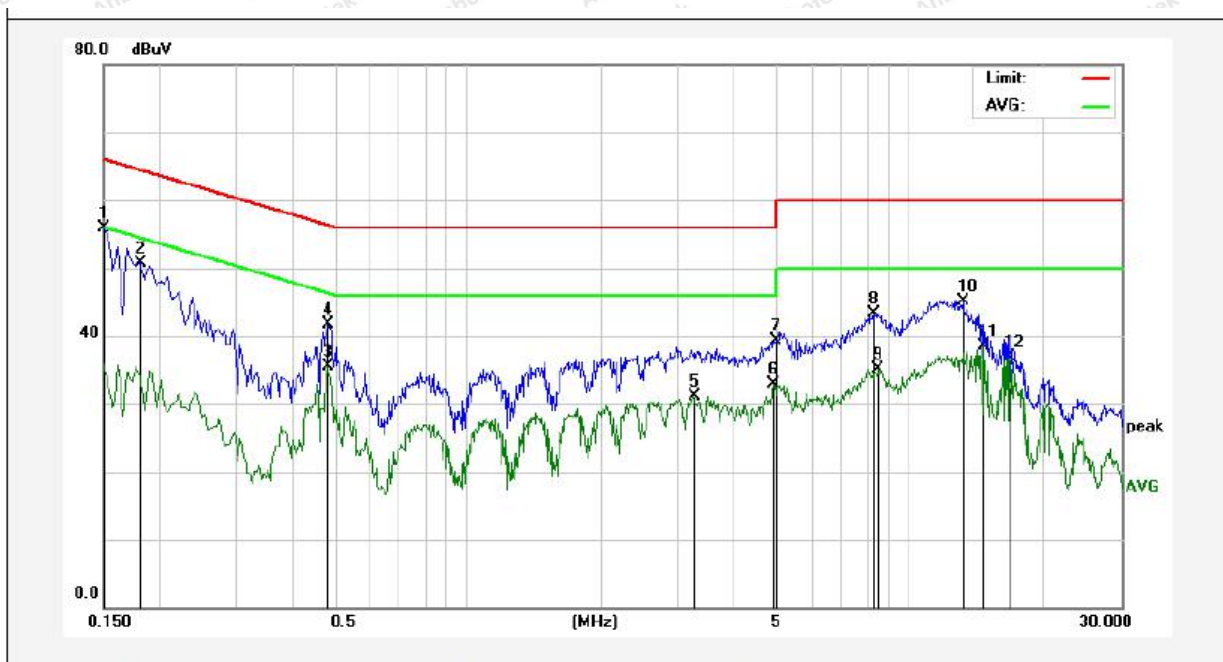
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH06 (ANT1+ANT2)
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.4°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	37.08	19.90	56.98	65.99	-9.01	QP	
2	0.1819	31.92	19.90	51.82	64.39	-12.57	QP	
3	0.4820	22.03	19.97	42.00	56.30	-14.30	QP	
4	0.4820	14.50	19.97	34.47	46.30	-11.83	AVG	
5	3.5100	11.03	20.17	31.20	46.00	-14.80	AVG	
6	4.9380	18.98	20.20	39.18	56.00	-16.82	QP	
7	4.9699	12.03	20.21	32.24	46.00	-13.76	AVG	
8	8.3180	23.13	20.30	43.43	60.00	-16.57	QP	
9	12.7260	25.37	20.30	45.67	60.00	-14.33	QP	
10	14.2140	19.10	20.27	39.37	50.00	-10.63	AVG	
11	14.6780	18.17	20.27	38.44	50.00	-11.56	AVG	
12	16.7780	16.18	20.29	36.47	50.00	-13.53	AVG	

Conducted Emission Test Data

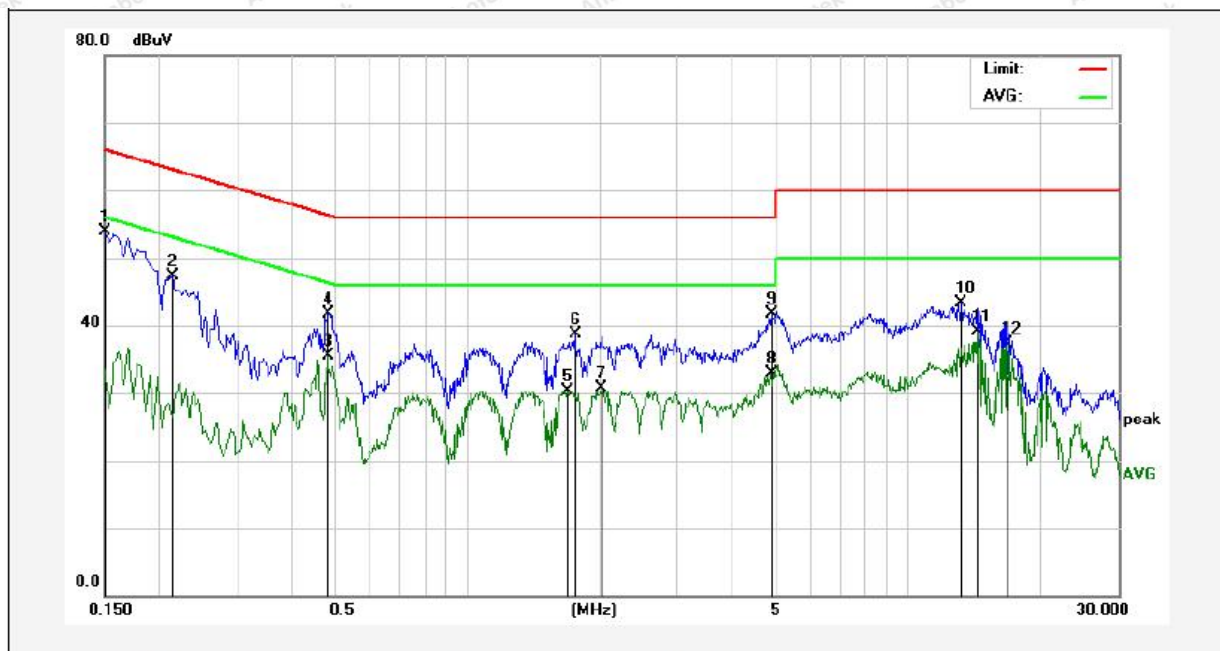
Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH06 (ANT1+ANT2)
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 24.4°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	35.99	19.90	55.89	65.99	-10.10	QP	
2	0.1819	30.90	19.90	50.80	64.39	-13.59	QP	
3	0.4820	15.50	19.97	35.47	46.30	-10.83	AVG	
4	0.4860	21.80	19.97	41.77	56.24	-14.47	QP	
5	3.2260	11.03	20.16	31.19	46.00	-14.81	AVG	
6	4.9100	12.75	20.20	32.95	46.00	-13.05	AVG	
7	4.9980	19.03	20.21	39.24	56.00	-16.76	QP	
8	8.2420	23.10	20.29	43.39	60.00	-16.61	QP	
9	8.4660	14.76	20.30	35.06	50.00	-14.94	AVG	
10	13.1940	24.80	20.29	45.09	60.00	-14.91	QP	
11	14.6780	18.29	20.27	38.56	50.00	-11.44	AVG	
12	16.7780	16.52	20.29	36.81	50.00	-13.19	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11n HT20 CH06 (ANT1+ANT2)
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.4°C Hum.: 49%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	34.09	19.90	53.99	65.99	-12.00	QP	
2	0.2140	27.44	19.90	47.34	63.04	-15.70	QP	
3	0.4820	15.50	19.97	35.47	46.30	-10.83	AVG	
4	0.4860	21.80	19.97	41.77	56.24	-14.47	QP	
5	1.6860	10.22	20.13	30.35	46.00	-15.65	AVG	
6	1.7580	18.52	20.14	38.66	56.00	-17.34	QP	
7	2.0220	10.54	20.14	30.68	46.00	-15.32	AVG	
8	4.8780	12.77	20.20	32.97	46.00	-13.03	AVG	
9	4.9100	21.44	20.20	41.64	56.00	-14.36	QP	
10	13.1940	23.05	20.29	43.34	60.00	-16.66	QP	
11	14.4100	18.92	20.27	39.19	50.00	-10.81	AVG	
12	16.7780	17.00	20.29	37.29	50.00	-12.71	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3
Remark: (1)The lower limit shall apply at the transition frequency. (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

4.2. Test Setup

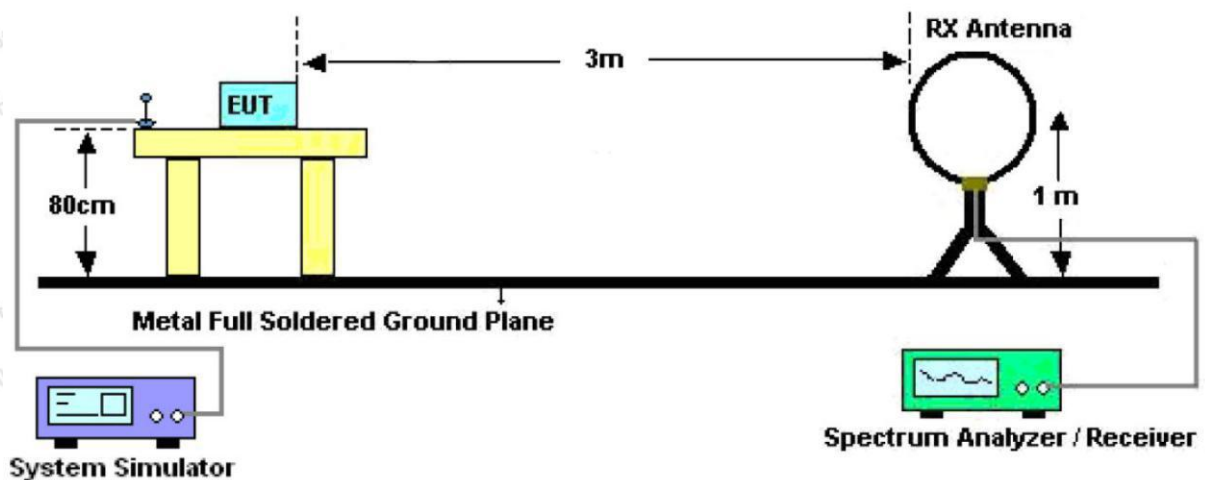


Figure 1. Below 30MHz

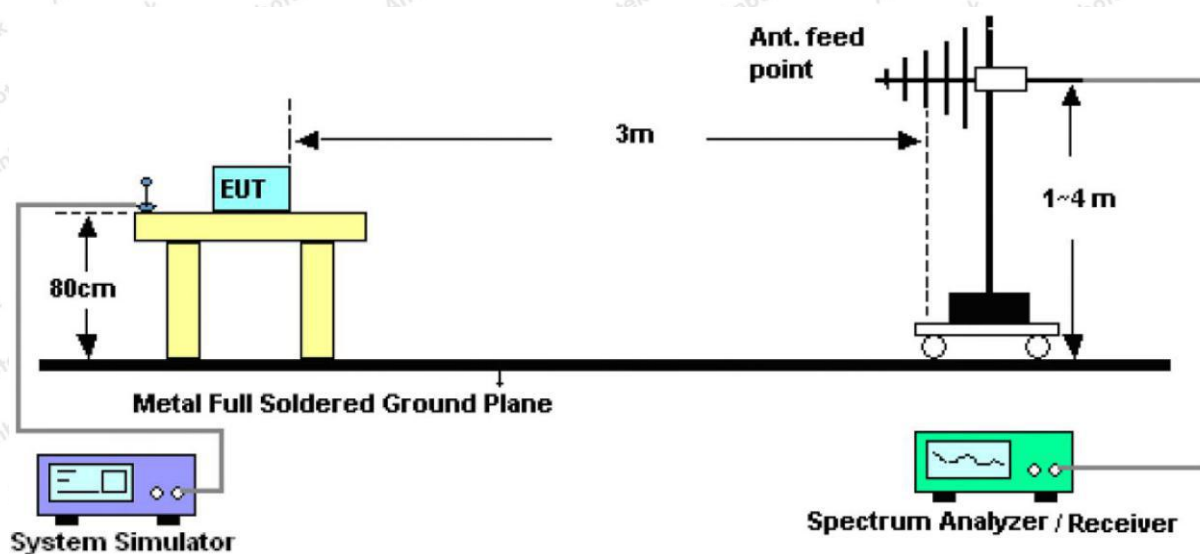


Figure 2. 30MHz to 1GHz

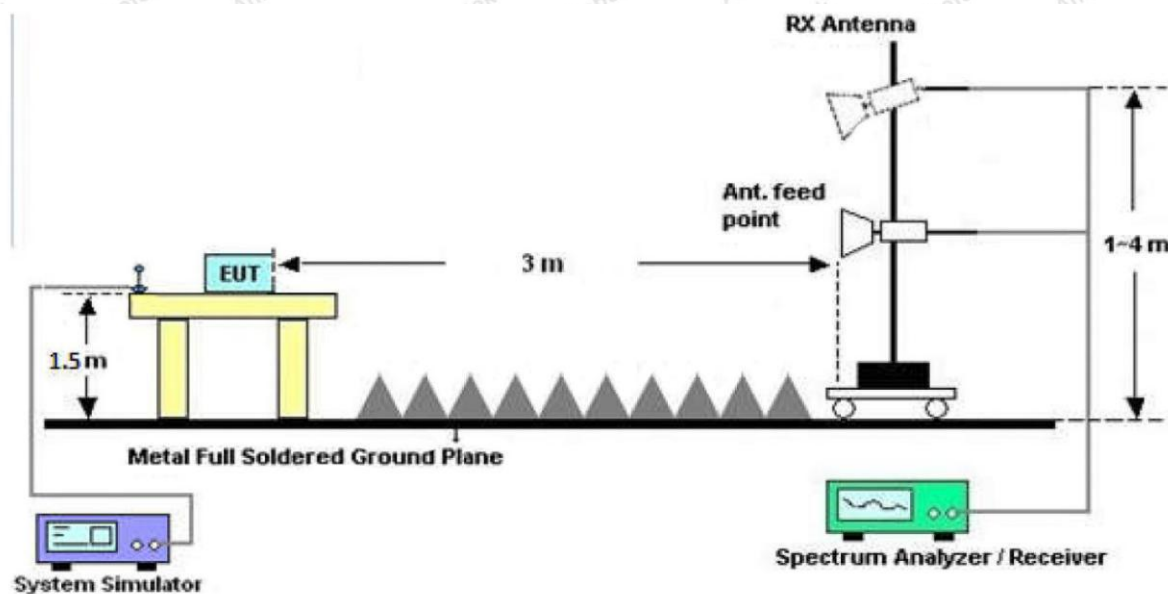


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

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.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9kHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

For average measurement:

–VBW=10Hz, When duty cycle is no less than 98 percent

– $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.4 duty cycle.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, and found the 802.11n HT20 CH06 (ANT1+ANT2) which is the worst case, only the worst case is recorded in the report.



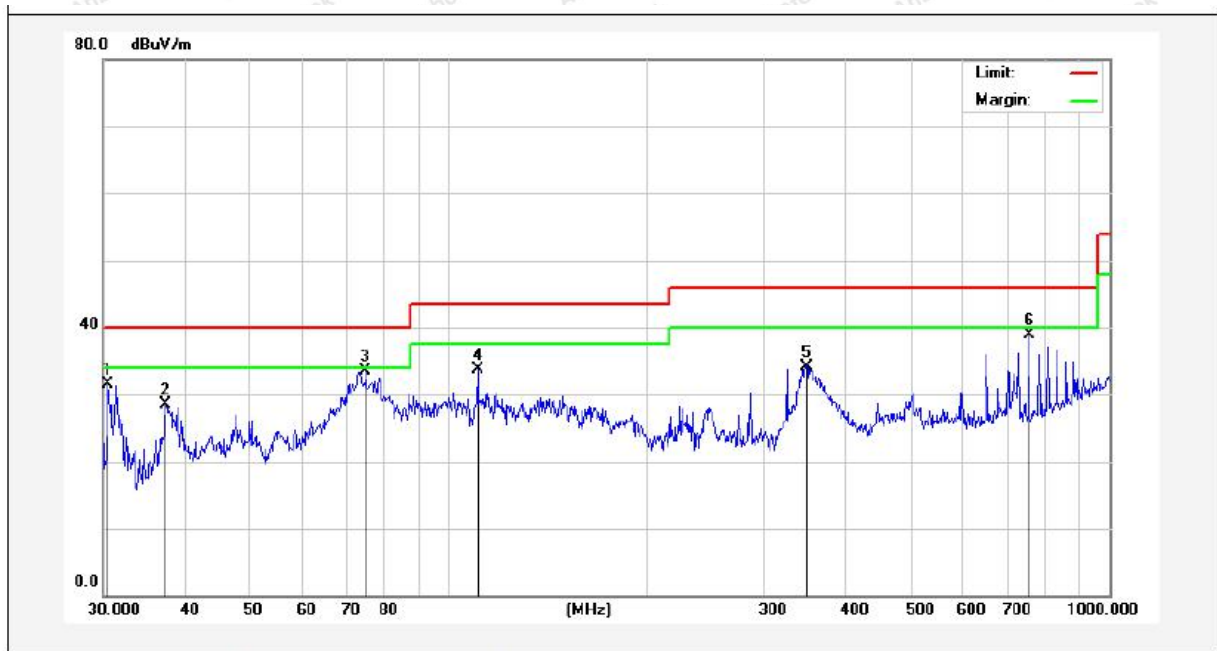
Test Results (30~1000MHz)

Test Mode: 802.11n HT20 CH06 (ANT1+ANT2)

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 25.3°C/47%RH

Power Source: DC 3.85V Battery inside



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.5306	50.88	-19.30	31.58	40.00	-8.42	QP	100	360	
2	37.2855	44.98	-16.42	28.56	40.00	-11.44	QP	100	0	
3	74.9191	54.06	-20.48	33.58	40.00	-6.42	QP	100	360	
4	110.5687	54.96	-21.27	33.69	43.50	-9.81	QP	100	0	
5	348.0274	47.25	-13.05	34.20	46.00	-11.80	QP	100	360	
6	755.3873	44.09	-5.11	38.98	46.00	-7.02	QP	100	0	



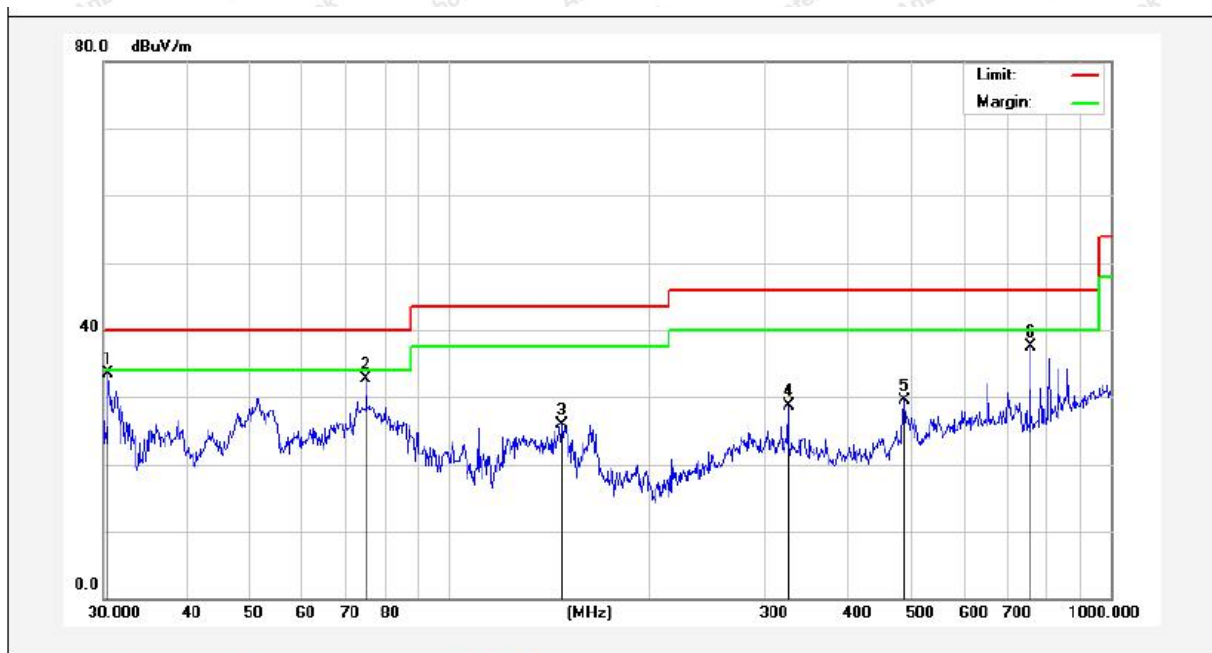
Test Results (30~1000MHz)

Test Mode: 802.11n HT20 CH06 (ANT1+ANT2)

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 25.3°C/47%RH

Power Source: DC 3.85V Battery inside



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.5306	50.65	-17.10	33.55	40.00	-6.45	QP	100	360	
2	74.9191	51.12	-18.37	32.75	40.00	-7.25	QP	100	0	
3	147.9214	45.81	-19.93	25.88	43.50	-17.62	QP	100	360	
4	325.5958	41.40	-12.68	28.72	46.00	-17.28	QP	100	0	
5	487.3151	38.49	-8.97	29.52	46.00	-16.48	QP	100	360	
6	755.3873	42.63	-5.11	37.52	46.00	-8.48	QP	100	0	

Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4844.00	38.41	34.13	6.61	34.09	45.06	74.00	-28.94	V
7266.00	33.03	37.14	7.74	34.51	43.40	74.00	-30.60	V
9688.00	31.86	39.35	9.26	34.80	45.67	74.00	-28.33	V
12060.00	*					74.00		V
14472.00	*					74.00		V
16884.00	*					74.00		V
4844.00	37.38	34.13	6.61	34.09	44.03	74.00	-29.97	H
7266.00	32.93	37.14	7.74	34.51	43.30	74.00	-30.70	H
9688.00	31.51	39.35	9.26	34.80	45.32	74.00	-28.68	H
12060.00	*					74.00		H
14472.00	*					74.00		H
16884.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4844.00	27.64	34.13	6.61	34.09	34.29	54.00	-19.71	V
7266.00	21.94	37.14	7.74	34.51	32.31	54.00	-21.69	V
9688.00	22.24	39.35	9.26	34.80	36.05	54.00	-17.95	V
12060.00	*					54.00		V
14472.00	*					54.00		V
16884.00	*					54.00		V
4844.00	27.01	34.13	6.61	34.09	33.66	54.00	-20.34	H
7266.00	21.54	37.14	7.74	34.51	31.91	54.00	-22.09	H
9688.00	21.28	39.35	9.26	34.80	35.09	54.00	-18.91	H
12060.00	*					54.00		H
14472.00	*					54.00		H
16884.00	*					54.00		H

Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 Mode					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4874.00	37.80	34.13	6.61	34.09	44.45	74.00	-29.55	V
7311.00	33.31	37.14	7.74	34.51	43.68	74.00	-30.32	V
9748.00	33.03	39.35	9.26	34.80	46.84	74.00	-27.16	V
12185.00	*					74.00		V
14622.00	*					74.00		V
17059.00	*					74.00		V
4874.00	38.52	34.13	6.61	34.09	45.17	74.00	-28.83	H
7311.00	32.07	37.14	7.74	34.51	42.44	74.00	-31.56	H
9748.00	32.97	39.35	9.26	34.80	46.78	74.00	-27.22	H
12185.00	*					74.00		H
14622.00	*					74.00		H
17059.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4874.00	28.77	34.13	6.61	34.09	35.42	54.00	-18.58	V
7311.00	21.66	37.14	7.74	34.51	32.03	54.00	-21.97	V
9748.00	22.31	39.35	9.26	34.80	36.12	54.00	-17.88	V
12185.00	*					54.00		V
14622.00	*					54.00		V
17059.00	*					54.00		V
4874.00	28.71	34.13	6.61	34.09	35.36	54.00	-18.64	H
7311.00	21.18	37.14	7.74	34.51	31.55	54.00	-22.45	H
9748.00	22.71	39.35	9.26	34.80	36.52	54.00	-17.48	H
12185.00	*					54.00		H
14622.00	*					54.00		H
17059.00	*					54.00		H

Test Results (Above 1000MHz)

Test Mode: 802.11n HT20 Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4904.00	42.20	34.57	6.74	34.09	49.42	74.00	-24.58	V
7356.00	33.27	37.29	7.80	34.55	43.81	74.00	-30.19	V
9808.00	35.82	39.55	9.41	34.81	49.97	74.00	-24.03	V
12310.00	*					74.00		V
14772.00	*					74.00		V
17234.00	*					74.00		V
4904.00	41.92	34.57	6.74	34.09	49.14	74.00	-24.86	H
7356.00	32.38	37.29	7.80	34.55	42.92	74.00	-31.08	H
9808.00	32.08	39.55	9.41	34.81	46.23	74.00	-27.77	H
12310.00	*					74.00		H
14772.00	*					74.00		H
17234.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4904.00	33.33	34.57	6.74	34.09	40.55	54.00	-13.45	V
7356.00	23.25	37.29	7.80	34.55	33.79	54.00	-20.21	V
9808.00	24.37	39.55	9.41	34.81	38.52	54.00	-15.48	V
12310.00	*					54.00		V
14772.00	*					54.00		V
17234.00	*					54.00		V
4904.00	32.43	34.57	6.74	34.09	39.65	54.00	-14.35	H
7356.00	21.82	37.29	7.80	34.55	32.36	54.00	-21.64	H
9808.00	21.38	39.55	9.41	34.81	35.53	54.00	-18.47	H
12310.00	*					54.00		H
14772.00	*					54.00		H
17234.00	*					54.00		H

Remark:

1. During the test, pre-scan the 802.11b,g,n(HT20) mode of ATN 1, ANT 2 and ANT1+ANT2, and found the 802.11n HT20 (ANT1+ANT2) mode is worse case , the report only record this mode.
2. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.



Radiated Band Edge:

ANT1

Test Mode: 802.11b Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	51.22	29.15	3.41	34.01	49.77	74.00	-24.23	H
2400.00	60.09	29.16	3.43	34.01	58.67	74.00	-15.33	H
2390.00	52.87	29.15	3.41	34.01	51.42	74.00	-22.58	V
2400.00	61.77	29.16	3.43	34.01	60.35	74.00	-13.65	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	38.10	29.15	3.41	34.01	36.65	54.00	-17.35	H
2400.00	46.35	29.16	3.43	34.01	44.93	54.00	-9.07	H
2390.00	39.89	29.15	3.41	34.01	38.44	54.00	-15.56	V
2400.00	47.44	29.16	3.43	34.01	46.02	54.00	-7.98	V

Test Mode: 802.11b Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	51.69	29.28	3.53	34.03	50.47	74.00	-23.53	H
2500.00	47.66	29.30	3.56	34.03	46.49	74.00	-27.51	H
2483.50	53.86	29.28	3.53	34.03	52.64	74.00	-21.36	V
2500.00	50.09	29.30	3.56	34.03	48.92	74.00	-25.08	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	38.40	29.28	3.53	34.03	37.18	54.00	-16.82	H
2500.00	34.59	29.30	3.56	34.03	33.42	54.00	-20.58	H
2483.50	40.31	29.28	3.53	34.03	39.09	54.00	-14.91	V
2500.00	36.45	29.30	3.56	34.03	35.28	54.00	-18.72	V

Remark: 1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor



Radiated Band Edge:

ANT1:

Test Mode: 802.11g Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	50.50	27.53	5.47	33.92	49.58	74.00	-24.42	H
2400.00	59.13	27.55	5.49	29.93	62.24	74.00	-11.76	H
2390.00	52.10	27.53	5.47	33.92	51.18	74.00	-22.82	V
2400.00	60.62	27.55	5.49	29.93	63.73	74.00	-10.27	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	37.59	27.53	5.47	33.92	36.67	54.00	-17.33	H
2400.00	45.76	27.55	5.49	29.93	48.87	54.00	-5.13	H
2390.00	39.32	27.53	5.47	33.92	38.40	54.00	-15.60	V
2400.00	46.80	27.55	5.49	29.93	49.91	54.00	-4.09	V

Test Mode: 802.11g Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	50.67	29.28	3.53	34.03	49.45	74.00	-24.55	H
2500.00	46.86	29.30	3.56	34.03	45.69	74.00	-28.31	H
2483.50	52.69	29.28	3.53	34.03	51.47	74.00	-22.53	V
2500.00	49.16	29.30	3.56	34.03	47.99	74.00	-26.01	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	37.79	29.28	3.53	34.03	36.57	54.00	-17.43	H
2500.00	34.11	29.30	3.56	34.03	32.94	54.00	-21.06	H
2483.50	39.63	29.28	3.53	34.03	38.41	54.00	-15.59	V
2500.00	35.94	29.30	3.56	34.03	34.77	54.00	-19.23	V

Remark: 1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

Radiated Band Edge:

ANT2

Test Mode: 802.11b Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	51.09	29.15	3.41	34.01	49.64	74.00	-24.36	H
2400.00	59.91	29.16	3.43	34.01	58.49	74.00	-15.51	H
2390.00	52.73	29.15	3.41	34.01	51.28	74.00	-22.72	V
2400.00	61.56	29.16	3.43	34.01	60.14	74.00	-13.86	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	38.01	29.15	3.41	34.01	36.56	54.00	-17.44	H
2400.00	46.24	29.16	3.43	34.01	44.82	54.00	-9.18	H
2390.00	39.79	29.15	3.41	34.01	38.34	54.00	-15.66	V
2400.00	47.33	29.16	3.43	34.01	45.91	54.00	-8.09	V

Test Mode: 802.11b Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	51.50	29.28	3.53	34.03	50.28	74.00	-23.72	H
2500.00	47.51	29.30	3.56	34.03	46.34	74.00	-27.66	H
2483.50	53.65	29.28	3.53	34.03	52.43	74.00	-21.57	V
2500.00	49.91	29.30	3.56	34.03	48.74	74.00	-25.26	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	38.29	29.28	3.53	34.03	37.07	54.00	-16.93	H
2500.00	34.50	29.30	3.56	34.03	33.33	54.00	-20.67	H
2483.50	40.19	29.28	3.53	34.03	38.97	54.00	-15.03	V
2500.00	36.36	29.30	3.56	34.03	35.19	54.00	-18.81	V

Remark: 1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor



Radiated Band Edge:**ANT2:**

Test Mode: 802.11g Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	50.54	27.53	5.47	33.92	49.62	74.00	-24.38	H
2400.00	59.18	27.55	5.49	29.93	62.29	74.00	-11.71	H
2390.00	52.14	27.53	5.47	33.92	51.22	74.00	-22.78	V
2400.00	60.67	27.55	5.49	29.93	63.78	74.00	-10.22	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	37.62	27.53	5.47	33.92	36.70	54.00	-17.30	H
2400.00	45.79	27.55	5.49	29.93	48.90	54.00	-5.10	H
2390.00	39.35	27.53	5.47	33.92	38.43	54.00	-15.57	V
2400.00	46.83	27.55	5.49	29.93	49.94	54.00	-4.06	V

Test Mode: 802.11g Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	50.72	29.28	3.53	34.03	49.50	74.00	-24.50	H
2500.00	46.90	29.30	3.56	34.03	45.73	74.00	-28.27	H
2483.50	52.75	29.28	3.53	34.03	51.53	74.00	-22.47	V
2500.00	49.20	29.30	3.56	34.03	48.03	74.00	-25.97	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	37.82	29.28	3.53	34.03	36.60	54.00	-17.40	H
2500.00	34.13	29.30	3.56	34.03	32.96	54.00	-21.04	H
2483.50	39.66	29.28	3.53	34.03	38.44	54.00	-15.56	V
2500.00	35.97	29.30	3.56	34.03	34.80	54.00	-19.20	V

Remark: 1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor



Radiated Band Edge:

ANT1+2:

Test Mode: 802.11n20 Mode					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	50.41	27.53	5.47	33.92	49.49	74.00	-24.51	H
2400.00	59.00	27.55	5.49	29.93	62.11	74.00	-11.89	H
2390.00	52.00	27.53	5.47	33.92	51.08	74.00	-22.92	V
2400.00	60.46	27.55	5.49	29.93	63.57	74.00	-10.43	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2390.00	37.52	27.53	5.47	33.92	36.60	54.00	-17.40	H
2400.00	45.68	27.55	5.49	29.93	48.79	54.00	-5.21	H
2390.00	39.24	27.53	5.47	33.92	38.32	54.00	-15.68	V
2400.00	46.71	27.55	5.49	29.93	49.82	54.00	-4.18	V

Test Mode: 802.11n20 Mode					Test channel: Highest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	50.53	29.28	3.53	34.03	49.31	74.00	-24.69	H
2500.00	46.75	29.30	3.56	34.03	45.58	74.00	-28.42	H
2483.50	52.53	29.28	3.53	34.03	51.31	74.00	-22.69	V
2500.00	49.03	29.30	3.56	34.03	47.86	74.00	-26.14	V
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
2483.50	37.70	29.28	3.53	34.03	36.48	54.00	-17.52	H
2500.00	34.04	29.30	3.56	34.03	32.87	54.00	-21.13	H
2483.50	39.54	29.28	3.53	34.03	38.32	54.00	-15.68	V
2500.00	35.87	29.30	3.56	34.03	34.70	54.00	-19.30	V

Remark: 1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. During the test, pre-scan the ANT1, ANT2 and ANT1+2 mode, and found the ANT1+2 mode is worse case, the report only record this mode.

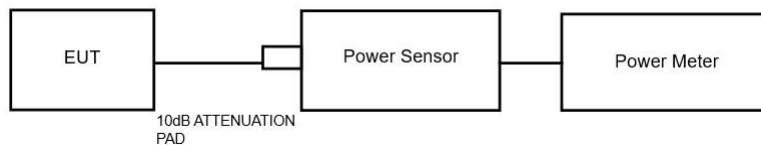


5. Maximum Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	30dBm

5.2. Test Setup



5.3. Test Procedure

1. The Transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the power value.
3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.4. Test Data

Pass

Please refer to clause 3 of the Appendix Test Data.

Additional test for duty cycle.

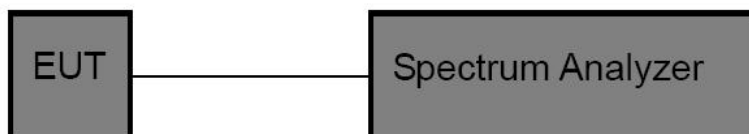
Please refer to clause 1 of the Appendix Test Data.

6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(2)
Test Limit	>500kHz

6.2. Test Setup



6.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
RBW= 100kHz, VBW $\geq$ 3*RBW =300kHz
Detector= Peak
Trace mode= Max hold.
Sweep- auto couple.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

6.4. Test Data

Pass

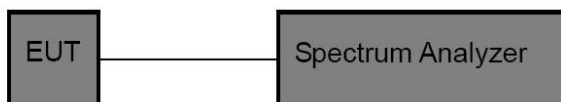
Please refer to clause 2 of the Appendix Test Data.

7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section
Test Limit	8dBm/3KHz

7.2. Test Setup



7.3. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

7.4. Test Data

Pass

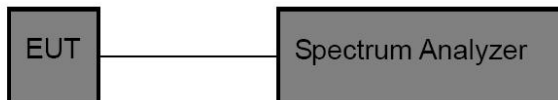
Please refer to clause 4 of the Appendix Test Data.

8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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).

8.2. Test Setup



8.3. Test Procedure

Using the following spectrum analyzer setting:

1. Set the RBW = 100KHz.
2. Set the VBW = 300KHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

8.4. Test Data

Pass

Please refer to clause 5 of the Appendix Test Data.

9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

9.2. Antenna Connected Construction

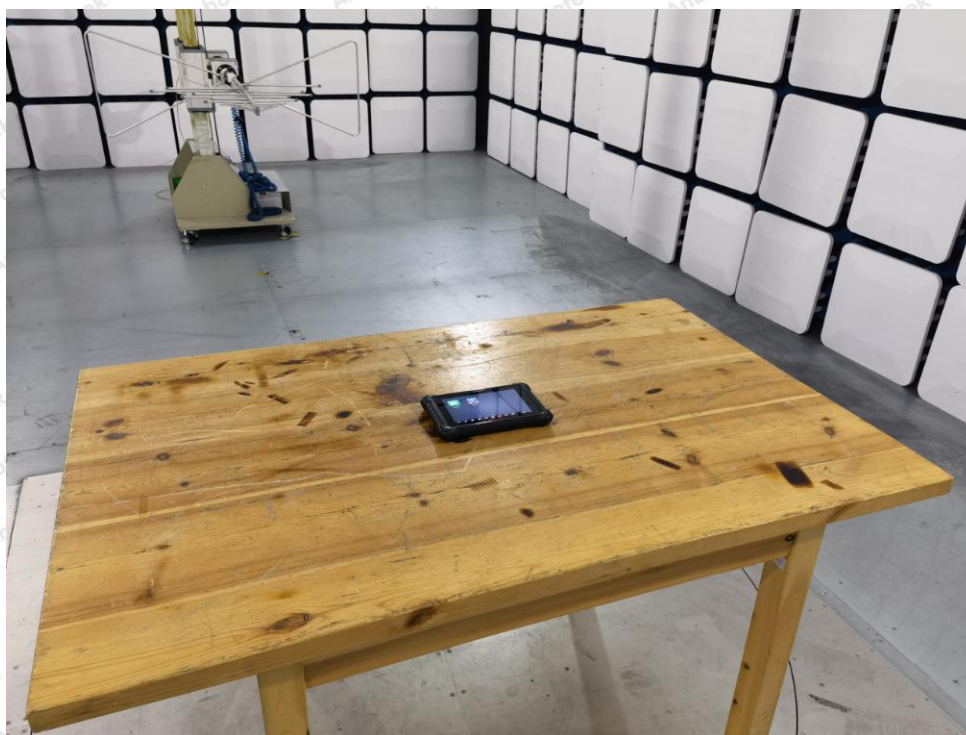
The antenna is a PIFA Antenna which permanently attached, and the best case gain of the antenna is 3.4dBi It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Power Line Conducted Emission Test



Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH

Reference to the test report 18220WC10069301.

APPENDIX III -- INTERNAL PHOTOGRAPH

Reference to the test report 18220WC10069301.



APPENDIX IV – Appendix Test Data

