

Test Report

Verified code: 984175

Report No.: E20230322442901-1

Customer: Shenzhen SDMC Technology Co.,Ltd.

Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

Sample Name: AX3000 Dual Band WiFi6 Mesh Router

Sample Model: NM3015

Receive Sample Date: Mar.23,2023

Test Date: Mar.28,2023 ~ Jun.21,2023

Reference Document: CFR 47, FCC Part 15 Subpart C

Test Result: Pass

Prepared by: Lu Wei
Lu Wei

Reviewed by: Wu Haoting
Wu Haoting

Approved by: Xiao Liang
Xiao Liang



GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-06-30

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5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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TABLE OF CONTENTS

1.	TEST RESULT SUMMARY	6
2.	GENERAL DESCRIPTION OF EUT.....	7
2.1.	APPLICANT	7
2.2.	MANUFACTURER.....	7
2.3.	BASIC DESCRIPTION OF EQUIPMENT UNDER TEST	7
2.4.	CHANNEL LIST	8
2.5.	TEST OPERATION MODE	8
2.6.	LOCAL SUPPORTIVE INSTRUMENTS.....	8
2.7.	CONFIGURATION OF SYSTEM UNDER TEST	8
2.8.	DUTY CYCLE.....	12
3.	LABORATORY AND ACCREDITATIONS	14
3.1.	LABORATORY	14
3.2.	ACCREDITATIONS	14
3.3.	MEASUREMENT UNCERTAINTY	15
4.	LIST OF USED TEST EQUIPMENT AT GRGT	16
5.	CONDUCTED EMISSION MEASUREMENT	17
5.1.	LIMITS.....	17
5.2.	TEST PROCEDURES	17
5.3.	TEST SETUP	18
5.4.	DATA SAMPLE	18
5.5.	TEST RESULTS	19
6.	RADIATED SPURIOUS EMISSIONS	23
6.1.	LIMITS.....	23
6.2.	TEST PROCEDURES	23
6.3.	TEST SETUP	27
6.4.	DATA SAMPLE	28
6.5.	TEST RESULTS.....	30
7.	6DB BANDWIDTH.....	54
7.1.	LIMITS.....	54
7.2.	TEST PROCEDURES	54
7.3.	TEST SETUP	54
7.4.	TEST RESULTS	55
8.	CONDUCTED OUTPUT POWER.....	87
8.1.	LIMITS.....	87
8.2.	TEST PROCEDURES	87
8.3.	TEST SETUP	87
8.4.	TEST RESULT	88
9.	POWER SPECTRAL DENSITY	92
9.1.	LIMITS.....	92
9.2.	TEST PROCEDURES	92
9.3.	TEST SETUP	92

9.4. TEST RESULTS 93

10. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS 166

10.1. LIMITS..... 166

10.2. TEST PROCEDURES 166

10.3. TEST SETUP 166

10.4. TEST RESULTS 167

11. RESTRICTED BANDS OF OPERATION..... 259

11.1. LIMITS..... 259

11.2. TEST PROCEDURES 260

11.3. TEST SETUP 260

11.4. TEST RESULTS 261

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM 278

APPENDIX B. PHOTOGRAPH OF THE EUT 278

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20230322442901-1	Original Issue	2023-06-21

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1. TEST RESULT SUMMARY

Standard	Item	Limit / Severity	Result
CFR 47, FCC Part 15 Subpart C (§15.247); ANSI C63.10-2013; KDB 558074 D01 15.247 Meas Guidance v05r02	Antenna Requirement	§15.203	PASS
	Conducted Emissions	§15.207 (a)	PASS
	Radiated Spurious Emission	§15.247(d) §15.205 §15.209	PASS
	6 dB Bandwidth	§15.247 (a)(2)	PASS
	Conducted Output Power	§15.247(b)(3)	PASS
	Power Spectral Density	§15.247(e)	PASS
	Conducted band edges and Spurious Emission	§15.247(d)	PASS
	Restricted bands of operation	§15.205 §15.209 §15.247(d)	PASS

The EUT have two antennas. The antenna is Built-in antenna.

The max gain of antenna is 3.97dBi, which accordance 15.203is considered sufficient to comply with the provisions of this section.

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2. GENERAL DESCRIPTION OF EUT

2.1. APPLICANT

Name: Shenzhen SDMC Technology Co.,Ltd.
Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

2.2. MANUFACTURER

Name: Shenzhen SDMC Technology Co.,Ltd.
Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

2.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: AX3000 Dual Band WiFi6 Mesh Router
Adding Product Name: AX3000 Dual Band WiFi Mesh Router, Router Mesh Wi-Fi 6 de doble banda AX3000
Product Model: NM3015
Adding Model: NM3015B
Name & Models Difference: The above series models are consistent with the main model in terms of schematic diagram, circuit design, circuit layout, hardware version, software version and internal structure, The difference is mainly due to the inconsistency of model name and sales area.
Trade Name: SDMC, D FIBRA
FCC ID: 2AW68-NM3015
Power Supply: DC 12.0V power supplied by adapter
Adapter Specification: Adapter 1:
MODE:SA12BV-120100U
INPUT:100-240V~50/60Hz 0.4A
OUTPUT:12V $\overline{\text{---}}$ 1A 12.0W
Adapter 2:
MODE:F12L33-120100SPAU
INPUT:100-240V~50/60Hz 0.3A
OUTPUT:12.0V $\overline{\text{---}}$ 1.0A 12.0W
Frequency Band: 2412MHz-2462MHz for 802.11b/802.11g/802.11n HT20/VHT20/802.11ax HE20
2422MHz-2452MHz: 802.11n HT40/VHT40/802.11 ax HE40
DSSS for 802.11b mode
Modulation Type: OFDM for 802.11g/802.11n/ac mode
OFDM , OFDMA for 802.11ax mode
Antenna Specification: Built-in antenna 1 with 3.97dBi gain (Max)
Built-in antenna 2 with 3.85dBi gain (Max)
Temperature Range: 0°C~40°C
Hardware Version: V2.0
Software Version: S09.09.01.002

Sample submitting way: ☒ Provided by customer ☐ Sampling

Sample No: E20230322442901-0002, E20230322442901-0003

Note: The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

2.4. CHANNEL LIST

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n HT20, VHT20, IEEE 802.11ax HE20							
CH03 – CH09 for IEEE 802.11nHT40, VHT40,IEEE 802.11axHE40							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

2.5. TEST OPERATION MODE

Mode No.	Description of the modes
1	2.4G Wi-Fi TX mode

2.6. LOCAL SUPPORTIVE INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Note
Notebook	DELL	Latitude3400	8RZFJW2	/

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	DC cable	1	No	0	1.2m
2	RJ45	1	No	0	1.2m

2.7. CONFIGURATION OF SYSTEM UNDER TEST



Test software:

Software version
accessMTool

Power Setting:

Non Beamforming-SISO			
Mode	Date Rate	Frequency (MHz)	Power Setting
802.11b	1M	2412	84
		2437	84
		2462	84
802.11g	6M	2412	83
		2437	83
		2462	83

Non Beamforming-CDD			
Mode	Date Rate	Frequency (MHz)	Power Setting
802.11b	1M	2412	70
		2437	70
		2462	70
802.11g	6M	2412	78
		2437	78
		2462	78
802.11n HT20	MCS0	2412	73
		2437	73
		2462	73
802.11n HT40	MCS0	2422	72
		2437	72
		2452	72
VHT20	MCS0NSS1	2412	76
		2437	76
		2462	76
VHT40	MCS0NSS1	2422	64
		2437	64
		2452	64
802.11ax HE20	HE0NSS1	2412	64
		2437	64
		2462	64
802.11ax HE40	HE0NSS1	2422	64
		2437	64
		2452	64

Non Beamforming-SDM			
Mode	Date Rate	Frequency (MHz)	Power Setting
802.11n HT20	MCS8	2412	74
		2437	74
		2462	74
802.11n HT40	MCS8	2422	68
		2437	68
		2452	68
VHT20	MCS0NSS2	2412	76
		2437	76
		2462	76
VHT40	MCS0NSS2	2422	64
		2437	64
		2452	64
802.11ax HE20	HE0NSS2	2412	72
		2437	72
		2462	72
802.11ax HE40	HE0NSS2	2422	64
		2437	64
		2452	64

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Beamforming			
Mode	Date Rate	Frequency (MHz)	Power Setting
802.11n HT20	MCS0	2412	66
		2437	66
		2462	66
802.11n HT40	MCS0	2422	60
		2437	60
		2452	60
VHT20	MCS0NSS1	2412	68
		2437	68
		2462	68
VHT40	MCS0NSS1	2422	58
		2437	58
		2452	58
802.11ax HE20	HE0NSS1	2412	64
		2437	64
		2462	64
802.11ax HE40	HE0NSS1	2422	56
		2437	56
		2452	56

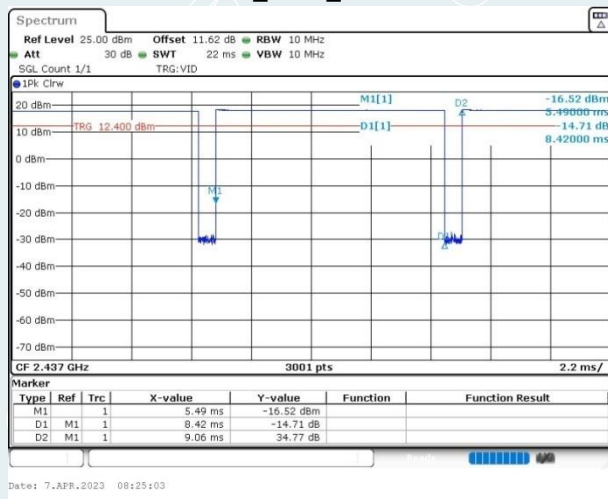
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2.8. DUTY CYCLE

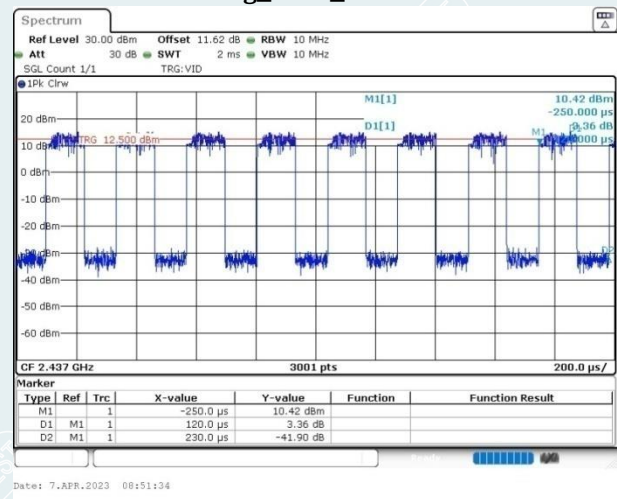
EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	23.9°C/47%RH	Test Voltage	AC120V/60Hz
Tested By	Huang Tianmei	Tested Date	2023/04/07

Test Mode	Antenna	Frequency (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	T [s]	Duty Cycle Factor(dB)
802.11b	Ant1	2437	8.42	9.06	92.94	0.00842	0.32
802.11g	Ant1	2437	0.12	0.23	52.17	0.00012	2.83
802.11n HT20	Ant1	2437	0.13	0.23	56.52	0.00013	2.48
802.11n HT40	Ant1	2437	0.11	0.21	52.38	0.00011	2.81
VHT20	Ant1	2437	0.15	0.18	83.33	0.00015	0.79
VHT40	Ant1	2437	0.13	0.16	81.25	0.00013	0.90
802.11ax HE20	Ant1	2437	0.32	0.35	91.43	0.00032	0.39
802.11ax HE40	Ant1	2437	0.30	0.34	88.24	0.00030	0.54

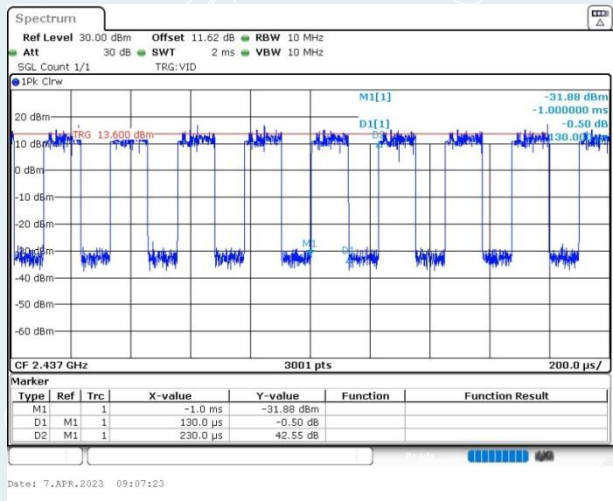
802.11b_Ant1_2437MHz



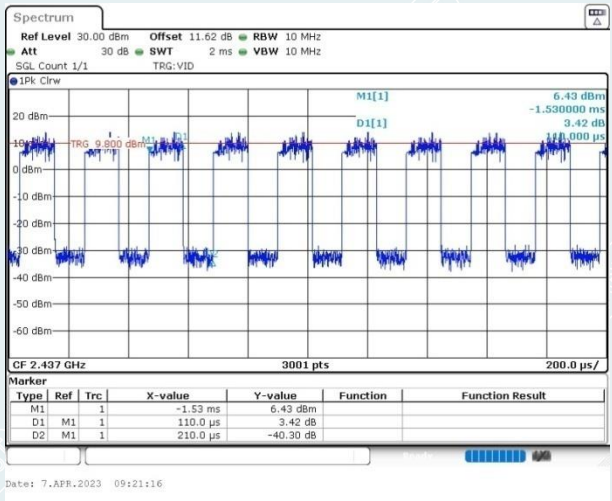
802.11g_Ant1_2437MHz



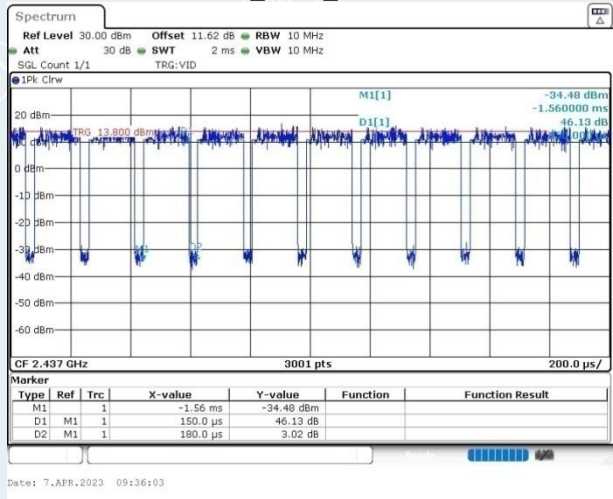
802.11n HT20_Ant1_2437MHz



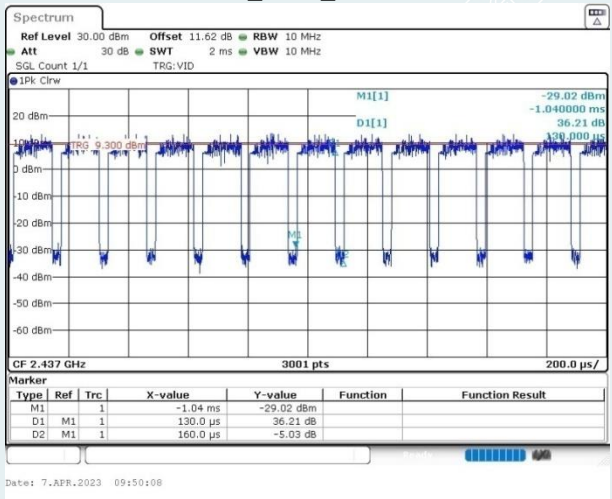
802.11n HT40_Ant1_2437MHz



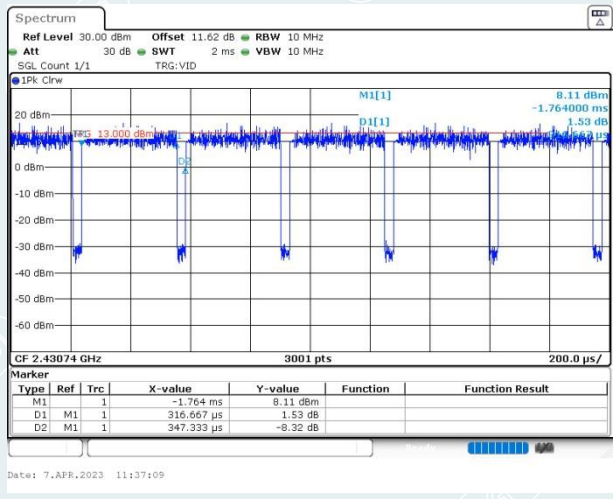
VHT20_Ant1_2437MHz



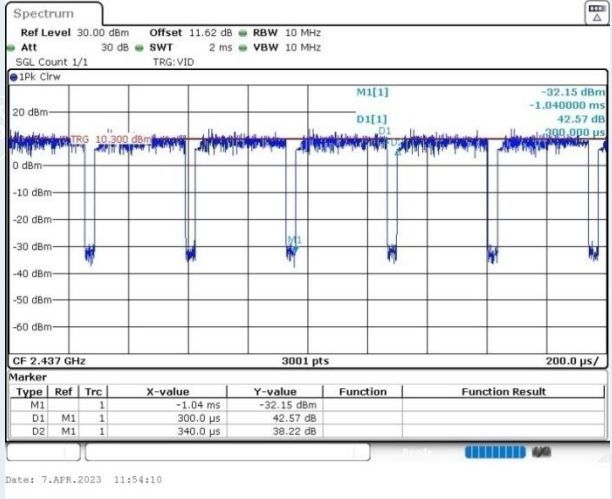
VHT40_Ant1_2437MHz



802.11ax HE20_Ant1_2437MHz



802.11ax HE40_Ant1_2437MHz



3. LABORATORY AND ACCREDITATIONS

3.1. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District Shenzhen,
518110, People's Republic of China

P.C. : 518000

Tel: 0755-61180008

Fax: 0755-61180008

3.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA A2LA(Certificate#:2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.grgtest.com>

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3.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	9kHz~30MHz	4.46dB
		30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26.5GHz	3.65dB
	Vertical	9kHz~30MHz	4.46dB
		30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26.5GHz	3.65dB
Conduction Emission		9 kHz ~ 150kHz	2.80dB
		150kHz ~ 10MHz	2.80dB
		10MHz ~ 30MHz	2.20dB

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78 dB
Occupied channel bandwidth	0.4 dB
Unwanted emission, conducted	0.68 dB
Humidity	6 %
Temperature	2 °C

This uncertainty represents an expanded uncertainty factor of $k=2$.

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4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Conducted Emissions				
EZ-EMC	EZ	CCS-3A1-CE	/	/
EMI Receiver	R&S	ESCI	100783	2023-08-28
LISN(EUT)	R&S	ENV216	101543	2023-09-13
Radiated Spurious Emission &Restricted bands of operation				
Test S/W	EZ	CCS-2ANT		
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2023-08-06
Test Receiver	R&S	ESR7	102444	2023-09-02
Preamplifier	EMEC	EM330	I00426	2024-02-06
Bi-log Antenna	TESEQ	CBL6143A	26039	2024-10-23
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2023-10-15
Test Receiver	R&S	ESR26	101758	2023-10-27
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2023-10-14
Amplifier	Tonscend	TAP01018048	AP20E8060075	2024-04-11
Amplifier	Tonscend	TAP184050	AP20E806071	2024-04-16
Amplifier	SHIRONG ELECTRONIC	DLNA-1G18G-G40	20200928005	2023-08-27
Test S/W	Tonscend	JS32-RE/2.5.2.4		
6 dB Bandwidth &Conducted band edges &Spurious Emission &Power Spectral Density				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17
Output Power				
Pulse power sensor	Anristu	MA24802.11b	1126150	2024-02-12
Power meter	Anristu	ML2495A	1204003	2024-02-12

Note: The calibration interval of the above test instruments is 12 months.

5. CONDUCTED EMISSION MEASUREMENT

5.1. LIMITS

Frequency range	Limits (dB μ V)	
	Quasi-peak	Average
150kHz ~ 0.5MHz	66~56	56~46
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 150 kHz to 0.5MHz.

5.2. TEST PROCEDURES

Procedure of Preliminary Test.

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

– Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

1) place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

– All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

– The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

– Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

– I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

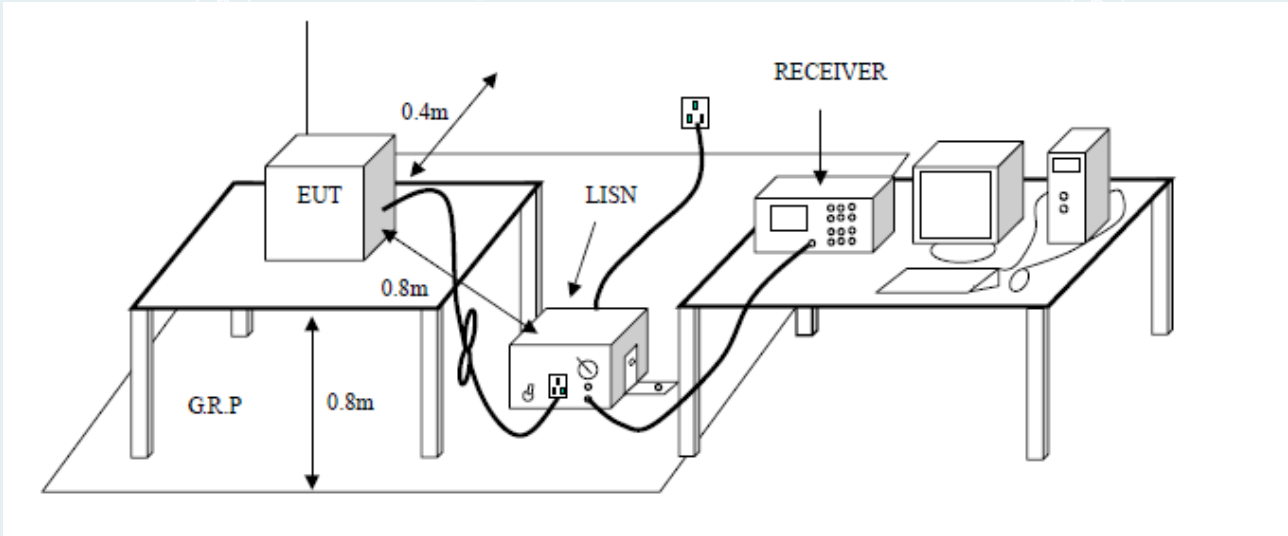
– Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.

The test mode(s) described in Item 2.5 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.5 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

5.3. TEST SETUP



5.4. DATA SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

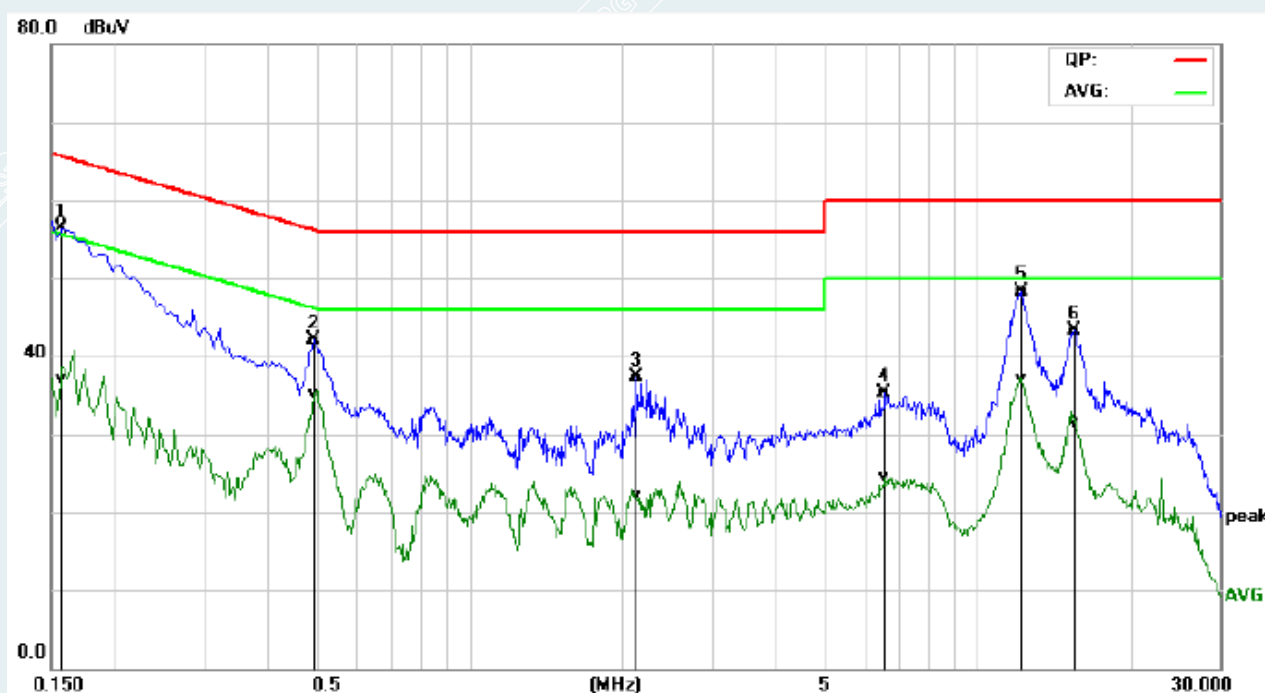
- Factor
- = Insertion loss of LISN + Cable Loss
- Result
- = Quasi-peak Reading/ Average Reading + Factor
- Limit
- = Limit stated in standard
- Margin
- = Result (dBuV) – Limit (dBuV)

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5.5. TEST RESULTS

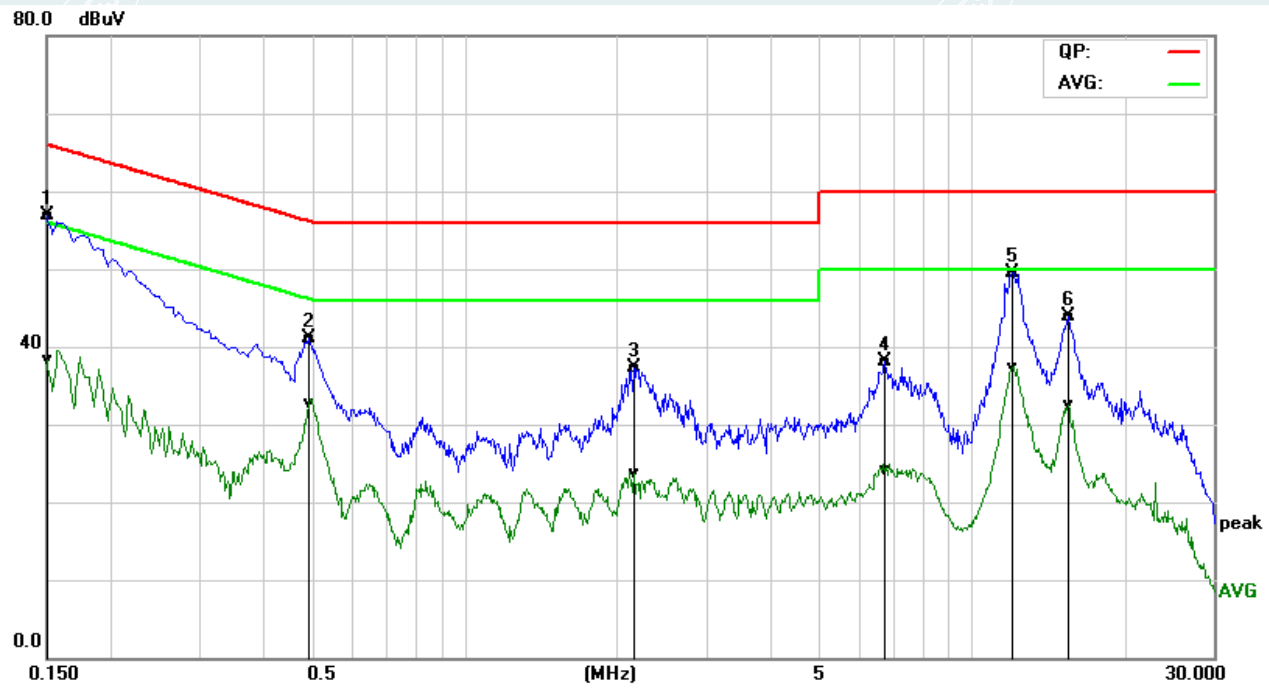
All models were pretested and only the worst modes and channels were recorded in this report.(IEEE 802.11g 2412MHz:CDD)

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	22.0°C/55%RH	Test Mode	Mode 1
Tested By	Chen Zexin	Line	L
Tested Date	2023/4/4	Test Voltage	AC120V/60Hz (Adapter1)



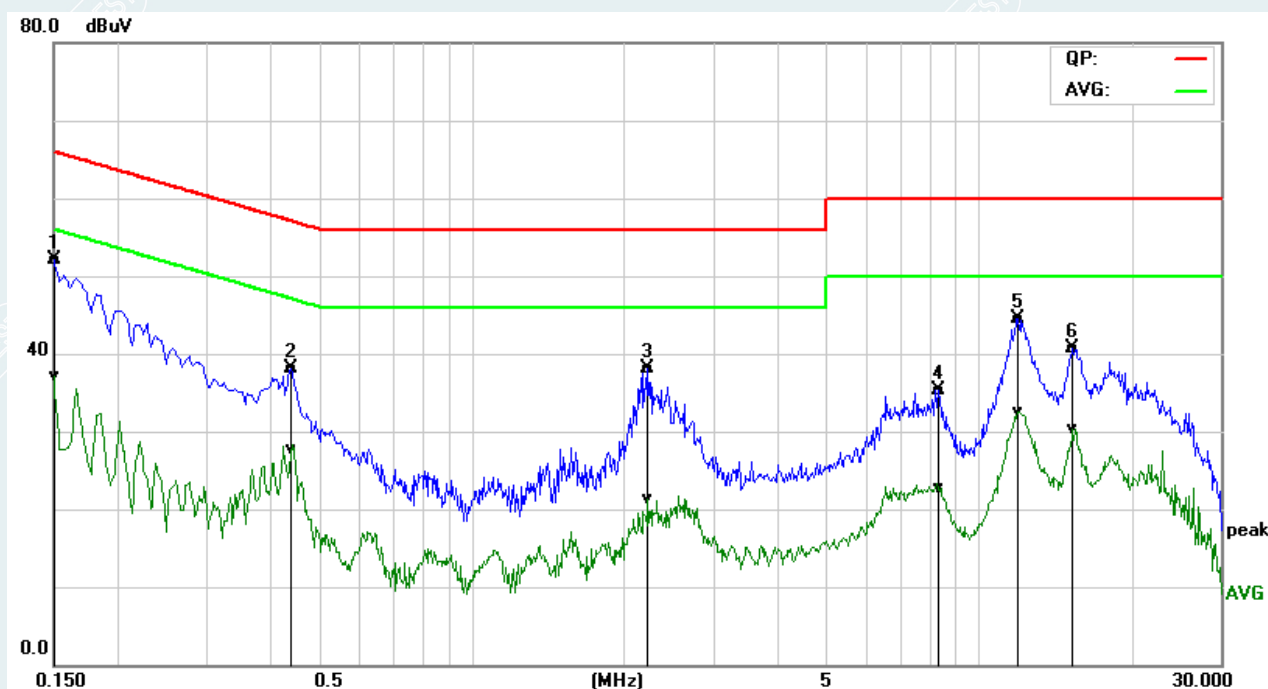
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1580	47.66	27.52	9.61	57.27	37.13	65.56	55.57	-8.29	-18.44	Pass
2	0.4940	32.41	25.50	9.61	42.02	35.11	56.10	46.10	-14.08	-10.99	Pass
3	2.1380	27.61	12.55	9.65	37.26	22.20	56.00	46.00	-18.74	-23.80	Pass
4	6.5780	25.52	14.76	9.73	35.25	24.49	60.00	50.00	-24.75	-25.51	Pass
5	12.2380	38.49	27.36	9.78	48.27	37.14	60.00	50.00	-11.73	-12.86	Pass
6	15.5340	33.55	21.73	9.81	43.36	31.54	60.00	50.00	-16.64	-18.46	Pass

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	22.0℃/55%RH	Test Mode	Mode 1
Tested By	Chen Zexin	Line	N
Tested Date	2023/4/4	Test Voltage	AC120V/60Hz (Adapter1)



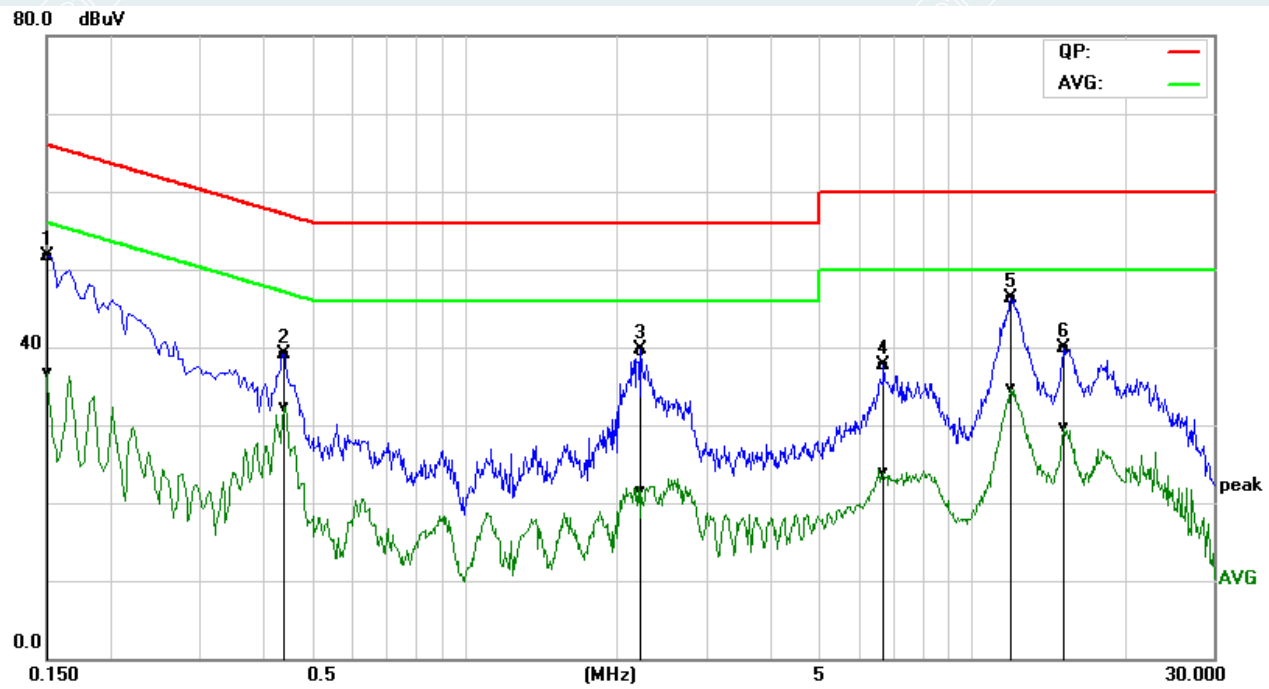
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	47.25	28.65	9.60	56.85	38.25	65.99	56.00	-9.14	-17.75	Pass
2	0.4940	31.54	23.16	9.60	41.14	32.76	56.10	46.10	-14.96	-13.34	Pass
3	2.1619	27.67	14.07	9.64	37.31	23.71	56.00	46.00	-18.69	-22.29	Pass
4	6.7460	28.31	14.32	9.75	38.06	24.07	60.00	50.00	-21.94	-25.93	Pass
5	12.0580	39.75	27.45	9.82	49.57	37.27	60.00	50.00	-10.43	-12.73	Pass
6	15.5220	34.01	22.55	9.88	43.89	32.43	60.00	50.00	-16.11	-17.57	Pass

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	22.0°C/55%RH	Test Mode	Mode 1
Tested By	Chen Zexin	Line	L
Tested Date	2023/4/4	Test Voltage	AC120V/60Hz (Adapter2)



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	42.41	27.40	9.61	52.02	37.01	65.99	56.00	-13.97	-18.99	Pass
2	0.4420	28.43	18.04	9.61	38.04	27.65	57.02	47.02	-18.98	-19.37	Pass
3	2.2340	28.54	11.70	9.65	38.19	21.35	56.00	46.00	-17.81	-24.65	Pass
4	8.3340	25.62	13.02	9.75	35.37	22.77	60.00	50.00	-24.63	-27.23	Pass
5	11.9379	34.74	22.64	9.78	44.52	32.42	60.00	50.00	-15.48	-17.58	Pass
6	15.3660	30.89	20.46	9.81	40.70	30.27	60.00	50.00	-19.30	-19.73	Pass

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	22.0℃/55%RH	Test Mode	Mode 1
Tested By	Chen Zexin	Line	N
Tested Date	2023/4/4	Test Voltage	AC120V/60Hz (Adapter2)



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	42.19	27.13	9.60	51.79	36.73	65.99	56.00	-14.20	-19.27	Pass
2	0.4420	29.53	22.64	9.60	39.13	32.24	57.02	47.02	-17.89	-14.78	Pass
3	2.2340	29.96	11.77	9.64	39.60	21.41	56.00	46.00	-16.40	-24.59	Pass
4	6.7060	27.99	14.12	9.75	37.74	23.87	60.00	50.00	-22.26	-26.13	Pass
5*	11.9740	36.44	24.80	9.82	46.26	34.62	60.00	50.00	-13.74	-15.38	Pass
6	15.2220	29.97	19.80	9.87	39.84	29.67	60.00	50.00	-20.16	-20.33	Pass

6. RADIATED SPURIOUS EMISSIONS

6.1. LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak($\mu\text{V/m}$)	Measurement distance(m)	Quasi-peak(dB $\mu\text{V/m}$)@distance 3m
0.009-0.490	$2400/F(\text{kHz})$	300	128.5~93.8
0.490-1.705	$24000/F(\text{kHz})$	30	73.8~63
1.705-30.0	30	30	69.5
30~88	100	3	40
88~216	150	3	43.5
216~960	200	3	46
Above 960	500	3	54

NOTE:

- (1) The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
- (2) The lower limit shall apply at the transition frequencies.
- (3) Above 18GHz test distance is 1m, so the Peak Limit= $74+20*\log(3/1)=83.54$ (dB $\mu\text{V/m}$).
The Avg Limit= $54+20*\log(3/1)=63.54$ (dB $\mu\text{V/m}$).
- (4) As required by §15.209(f) for the fundamental frequency, it is tested up to 10 times the frequency, so this report only reflects 26.5GHz.

6.2. TEST PROCEDURES

1) Sequence of testing 9kHz to 30MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.
- The EUT is placed on a desktop position in the center of the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0 °to 360 °) and by rotating the elevation axes (0 °to 360 °).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30MHz to 1GHz**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.
- The EUT is placed on a desktop position in the center of the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 4 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1GHz to 18GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.
- The EUT is placed on a desktop position in the center of the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 4 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.
- The EUT is placed on a desktop position in the center of the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Pre measurement:

- The pre measurement distance is 1 meter.
- The turntable rotates from 0 °to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 4 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak detector.
- The final measurement distance is 3 meter.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored

NOTE:

- (a).The frequency from 9kHz to 150kHz, Set RBW=300Hz(for Peak&AVG), RBW=300Hz(for Peak&AVG). the frequency from 150kHz to 30MHz, Set RBW=9kHz, RBW=9kHz,(for QP Detector).
- (b).The frequency from 30MHz to 1GHz, Set RBW=120kHz, RBW=300kHz,(for QP Detector).
- (c).The frequency above 1GHz, for Peak detector: Set RBW=1MHz, RBW=3MHz.
- (d).The frequency above 1GHz, for Avg detector: Set RBW=1MHz, if the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10Hz.
- (e)if the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.8.

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6.3. TEST SETUP

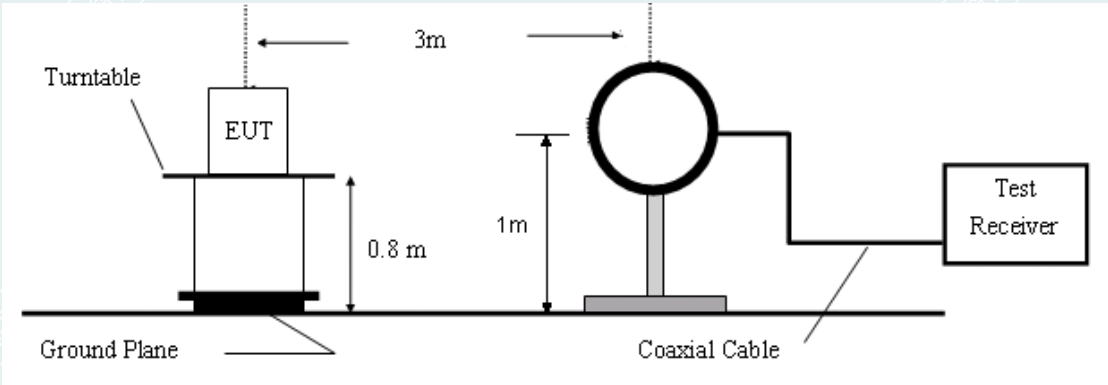


Figure 1. 9kHz to 30MHz radiated emissions test configuration

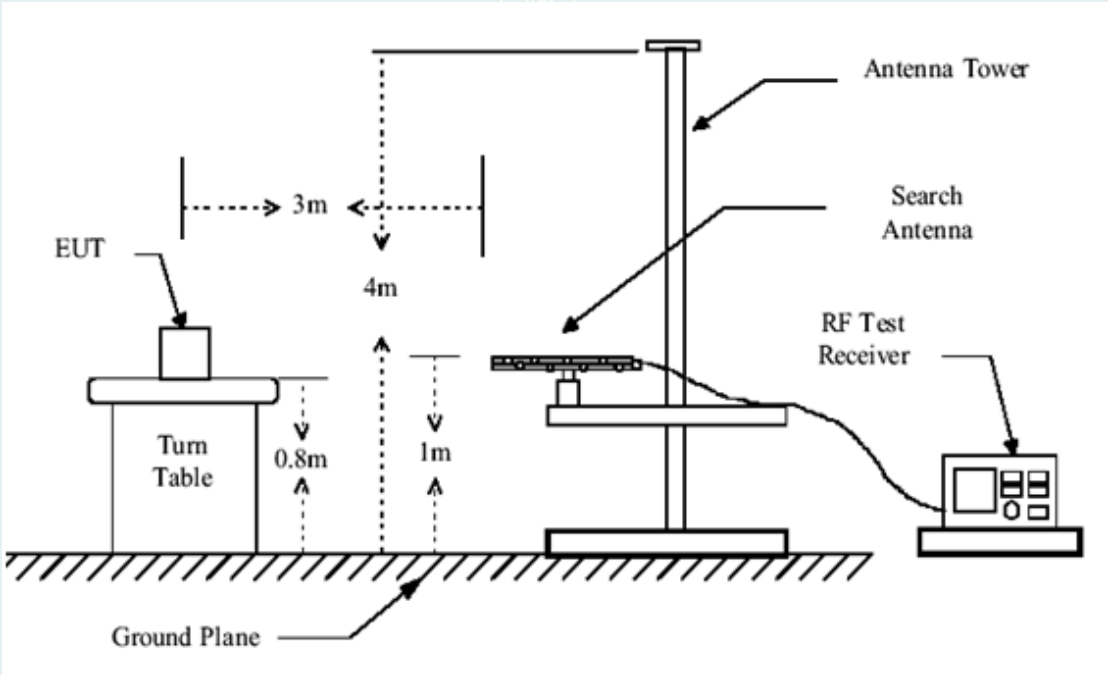


Figure 2. 30MHz to 1GHz radiated emissions test configuration

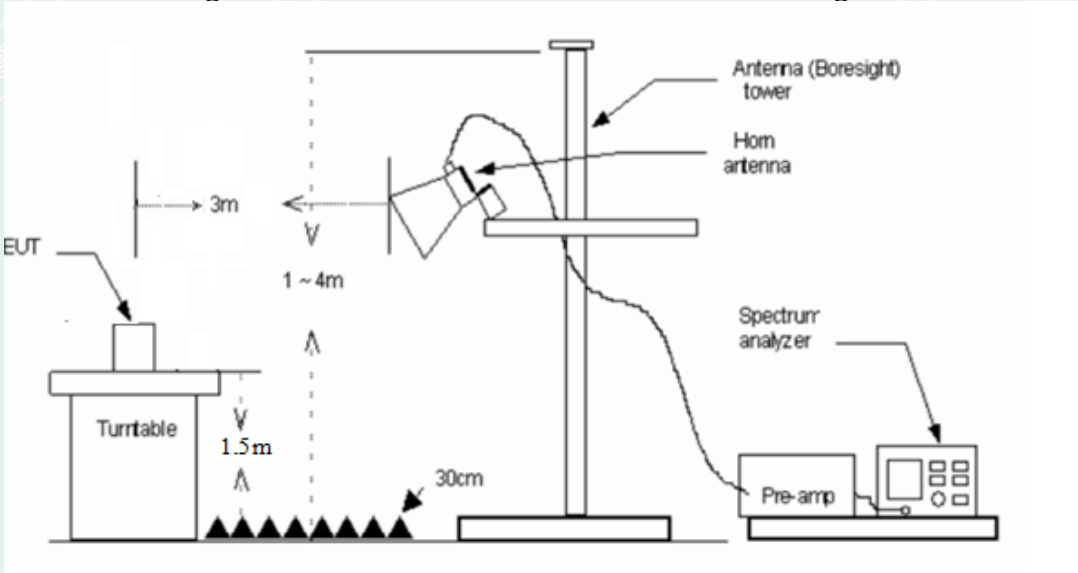


Figure 3. 1GH to 18GHz radiated emissions test configuration

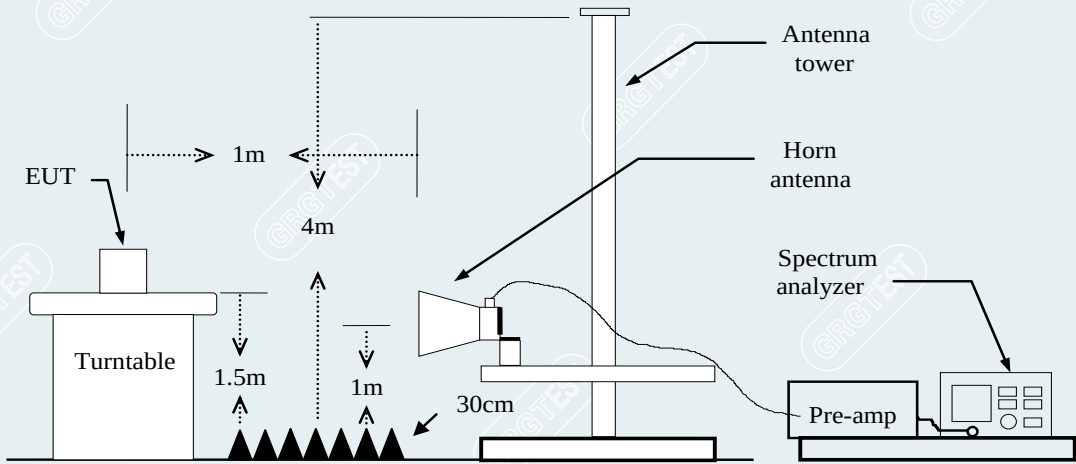


Figure 4.18GHz to 26.5GHz radiated emissions test configuration

6.4. DATA SAMPLE

30MHz to 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
XXXX	63.53	-27.15	36.38	43.50	-7.12	0	100	QP

- Frequency (MHz) = Emission frequency in MHz
- Reading (dBuV) = Uncorrected Analyzer / Receiver reading
- Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
- Limit (dBuV/m) = Limit stated in standard
- Margin (dB) = Result (dBuV/m) – Limit(dBuV/m)
- QP = Quasi-peak Reading

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1GHz-18GHz

No.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

Above 18GHz

No.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	54.49	42.38	-12.11	83.54	41.16	100	211	Vertical	Peak
xxx	xxxx	43.99	31.88	-12.11	63.54	31.66	100	211	Vertical	AVG

Frequency (MHz) = Emission frequency in MHz

Reading (dB μ V/m) = Uncorrected Analyzer / Receiver reading

Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain

Level (dB μ V/m) = Reading (dB μ V/m) + Factor (dB/m)

Limit (dB μ V/m) = Limit stated in standard

Margin (dB) = Limit (dB μ V/m) – Level (dB μ V/m)

Polarity = Antenna polarization

Peak = Peak Reading

AVG = Average Reading

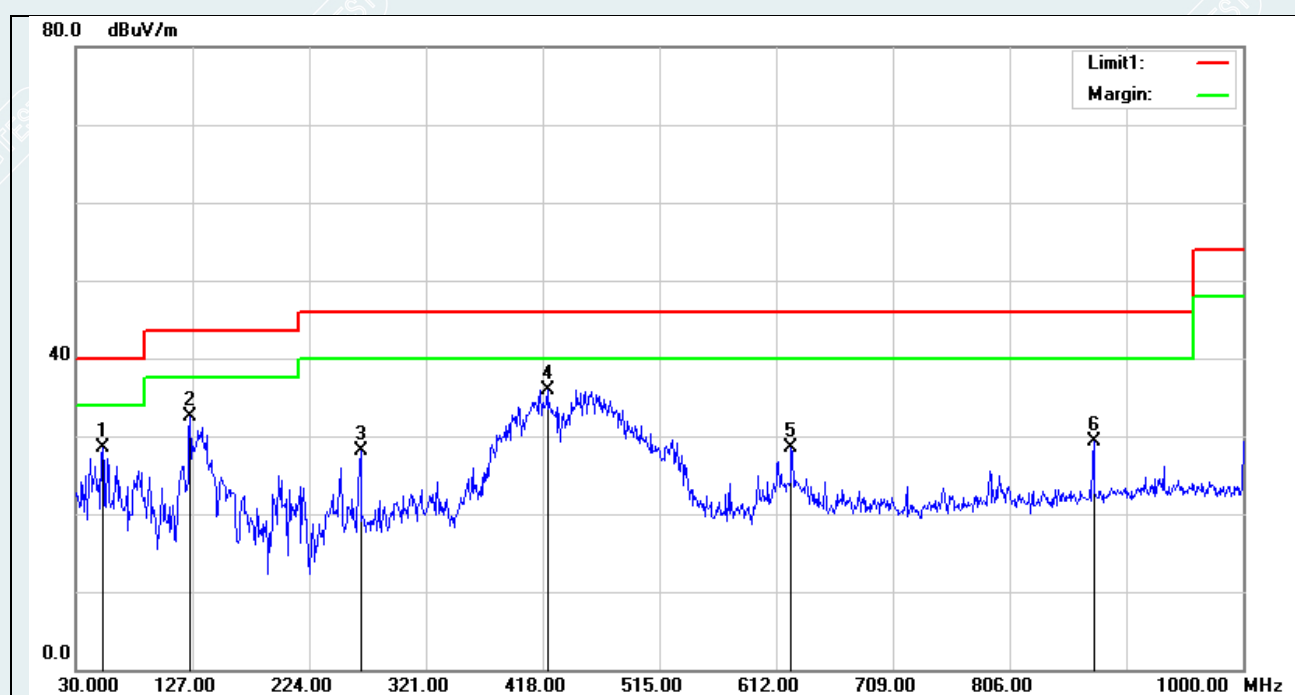
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6.5. TEST RESULTS

Below 1GHz

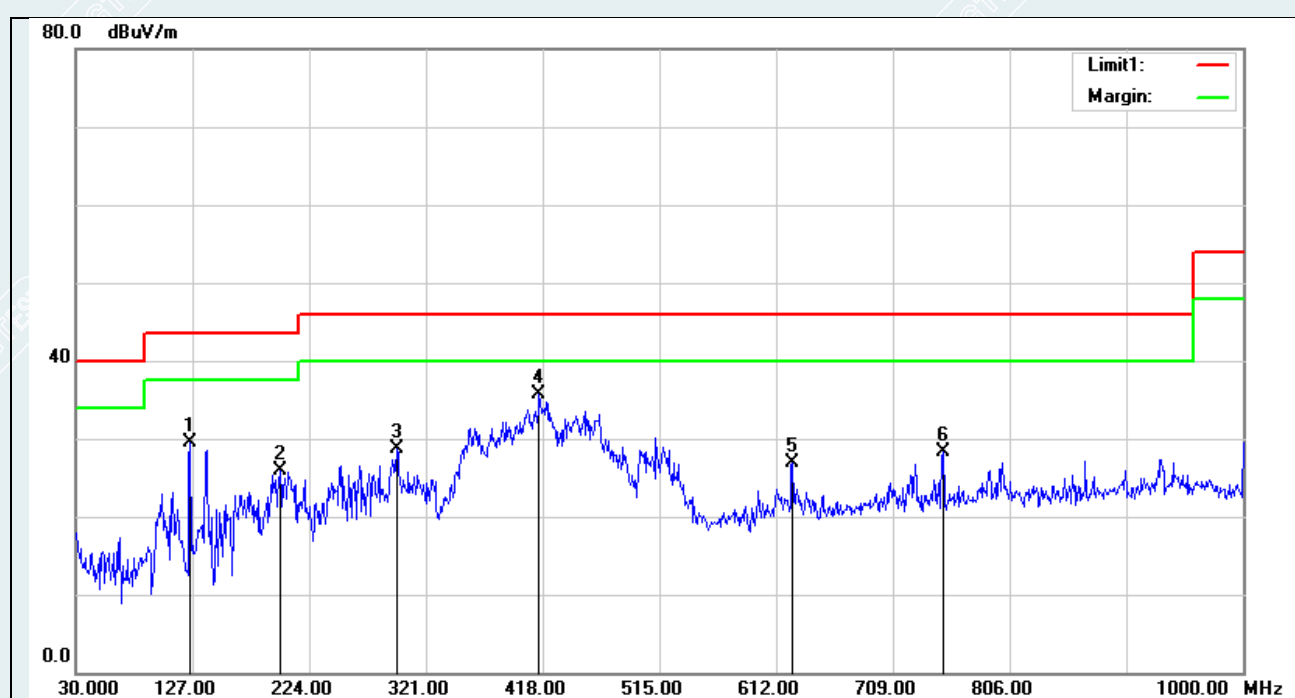
All models were pretested and only the worst modes and channels were recorded in this report.(IEEE 802.11g 2412MHz:CDD)

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	21.3°C/49%RH	Test Voltage	AC120V/60Hz
Test Mode	Mode 1	Polarity	Vertical
Tested By	Wang Xinyuan	Tested Date	2023/04/05
Note	Adapter1		



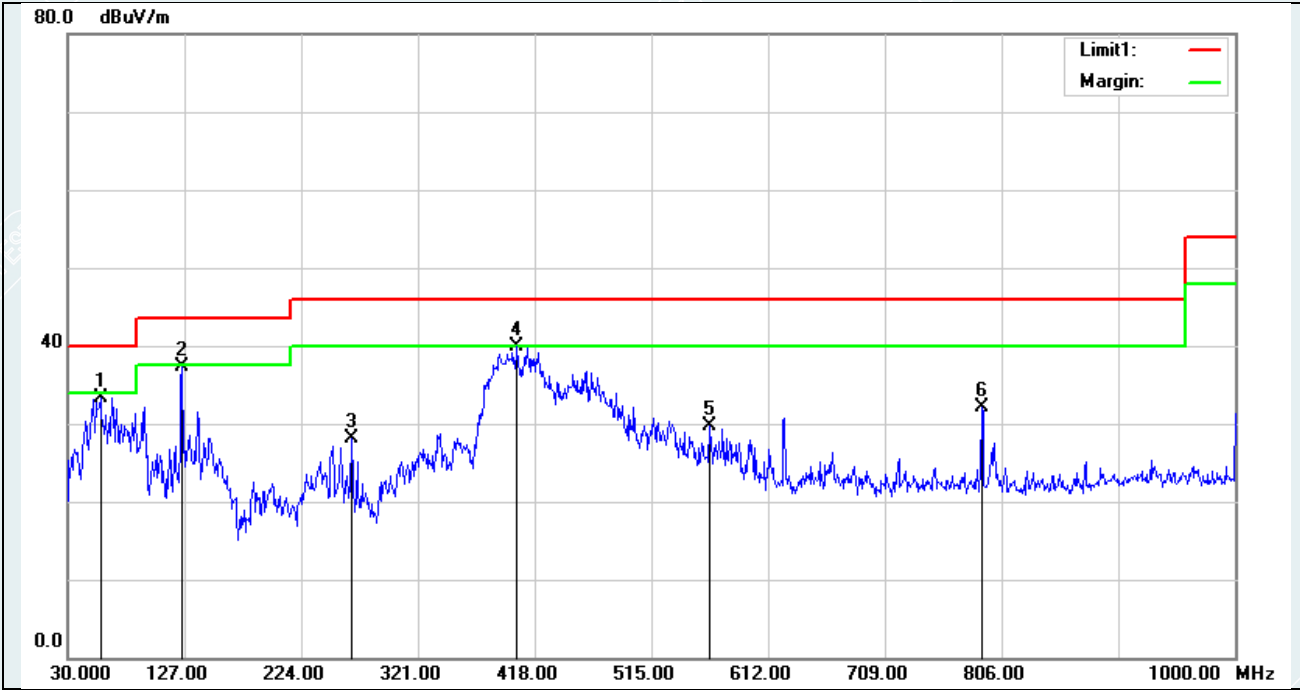
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	52.3100	55.24	-26.76	28.48	40.00	-11.52	224	100	QP
2	125.0600	58.43	-25.89	32.54	43.50	-10.96	256	100	QP
3	266.6800	52.45	-24.30	28.15	46.00	-17.85	255	200	QP
4*	421.8800	55.53	-19.59	35.94	46.00	-10.06	360	136	QP
5	624.6100	44.55	-15.98	28.57	46.00	-17.43	358	100	QP
6	875.8400	42.59	-13.29	29.30	46.00	-16.70	358	100	QP

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	21.3°C/49%RH	Test Voltage	AC120V/60Hz
Test Mode	Mode 1	Polarity	Horizontal
Tested By	Wang Xinyuan	Tested Date	2023/04/05
Note	Adapter1		



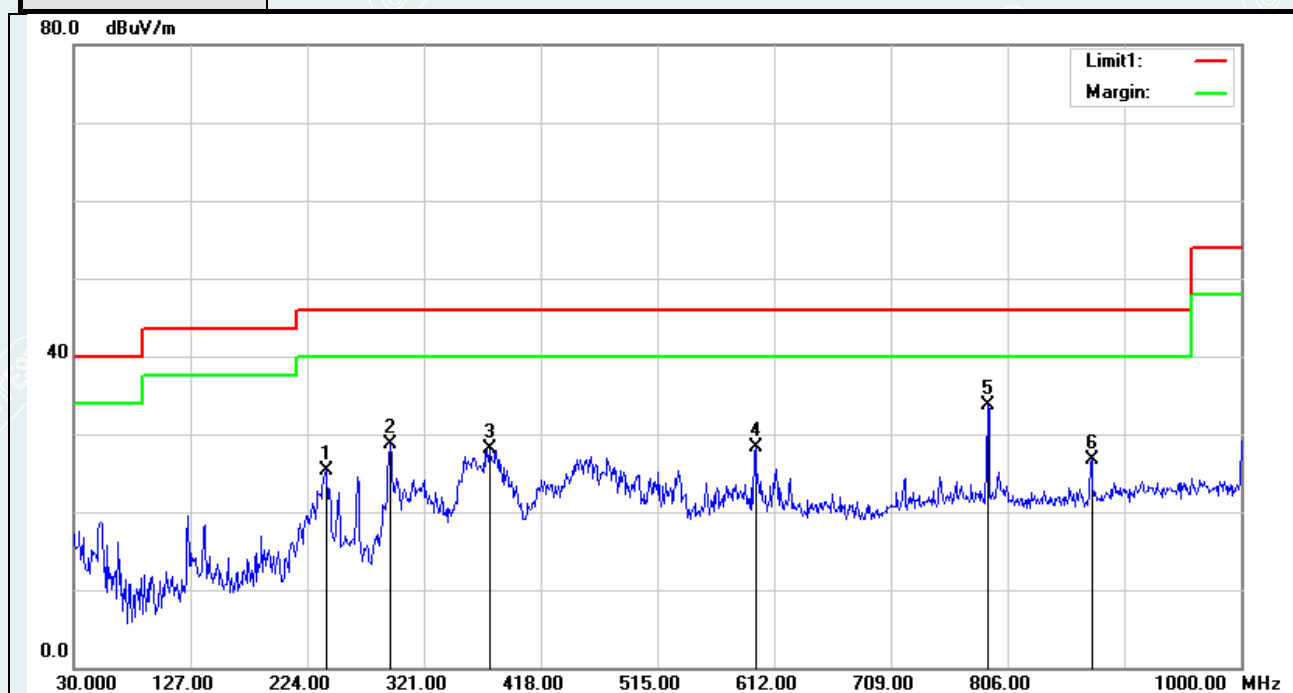
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	125.0600	55.44	-25.89	29.55	43.50	-13.95	342	200	QP
2	199.7500	52.63	-26.65	25.98	43.50	-17.52	360	147	QP
3	296.7500	52.32	-23.69	28.63	46.00	-17.37	203	100	QP
4*	415.0900	55.33	-19.69	35.64	46.00	-10.36	129	100	QP
5	625.5800	42.92	-15.97	26.95	46.00	-19.05	251	100	QP
6	750.7100	42.62	-14.37	28.25	46.00	-17.75	112	100	QP

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	21.3℃/49%RH	Test Voltage	AC120V/60Hz
Test Mode	Mode 1	Polarity	Vertical
Tested By	Wang Xinyuan	Tested Date	2023/04/04
Note	Adapter2		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	57.1600	61.57	-28.17	33.40	40.00	-6.60	344	100	QP
2	125.0600	63.15	-25.89	37.26	43.50	-6.24	91	100	QP
3	265.7100	52.42	-24.32	28.10	46.00	-17.90	34	100	QP
4*	403.4500	59.83	-19.88	39.95	46.00	-6.05	50	100	QP
5	563.5000	46.08	-16.40	29.68	46.00	-16.32	169	100	QP
6	789.5100	46.01	-13.85	32.16	46.00	-13.84	157	100	QP

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	21.3°C/49%RH	Test Voltage	AC120V/60Hz
Test Mode	Mode 1	Polarity	Horizontal
Tested By	Wang Xinyuan	Tested Date	2023/04/04
Note	Adapter2		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	239.5200	50.34	-25.06	25.28	46.00	-20.72	199	100	QP
2	292.8700	52.47	-23.78	28.69	46.00	-17.31	137	100	QP
3	375.3200	49.23	-21.15	28.08	46.00	-17.92	20	200	QP
4	596.4800	44.44	-16.15	28.29	46.00	-17.71	44	200	QP
5*	789.5100	47.58	-13.85	33.73	46.00	-12.27	92	100	QP
6	875.8400	39.90	-13.29	26.61	46.00	-19.39	16	100	QP

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9 kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.

Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11b (CDD),IEEE 802.11n HT40(CDD), IEEE 802.11ax HE20(SDM), IEEE 802.11ax HE40(SDM)).
The peak test results is less than the average limits, so the average test results had not reported.

1GHz-18GHz:

Mode: IEEE 802.11b (CDD)
Lowest Frequency (2412MHz)
Environment: 19.5℃/65%RH
Tested By:Zhang Zishan

Date: 2023-05-17
Voltage:AC120V/60Hz
/

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.6	63.53	39.74	-23.79	74.00	34.26	200	149	Horizontal
2	2371	67.77	49.83	-17.94	74.00	24.17	200	200	Horizontal
3	2502.4	57.98	42.90	-15.08	74.00	31.10	200	325	Horizontal
4	3979.5	60.02	45.62	-14.40	74.00	28.38	200	289	Horizontal
5	4243.5	65.21	51.53	-13.68	74.00	22.47	200	179	Horizontal
6	10962	48.69	51.86	3.17	74.00	22.14	200	350	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371	-17.94	53.67	35.73	54.00	18.27	200	200	Horizontal
2	4243.5	-13.68	50.24	36.56	54.00	17.44	200	179	Horizontal
3	10962	3.17	36.87	40.04	54.00	13.96	200	350	Horizontal

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Mode: IEEE 802.11b (CDD)
Lowest Frequency (2412MHz)
Environment: 19.5°C/65%RH
Tested By:Zhang Zishan

Date: 2023-05-17
Voltage:AC120V/60Hz
/

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.8	74.24	56.54	-17.70	74.00	17.46	200	333	Vertical
2	2501.4	66.16	50.90	-15.26	74.00	23.10	200	345	Vertical
3	3417	63.68	47.59	-16.09	74.00	26.41	100	211	Vertical
4	4824	61.29	49.22	-12.07	74.00	24.78	200	97	Vertical
5	7234.5	54.83	51.46	-3.37	74.00	22.54	100	148	Vertical
6	9687	48.65	51.91	3.26	74.00	22.09	200	117	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.8	-17.70	62.37	44.67	54.00	9.33	200	333	Vertical
2	2501.4	-15.26	57.21	41.95	54.00	12.05	200	345	Vertical
3	4823.93	-12.07	59.43	47.36	54.00	6.64	137	86.1	Vertical
4	7234.4975	-3.37	51.32	47.95	54.00	6.05	115	143.1	Vertical
5	9687	3.26	34.57	37.83	54.00	16.17	200	117	Vertical

----- The following blanks -----

Mode: IEEE 802.11b (CDD)
MiddleFrequency (2437MHz)
Environment: 19.5°C/65%RH
Tested By:Zhang Zishan

Date: 2023-05-17
Voltage:AC120V/60Hz
/

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1070.8	63.38	39.86	-23.52	74.00	34.14	200	141	Horizontal
2	2371.6	68.65	50.71	-17.94	74.00	23.29	200	203	Horizontal
3	2499	58.88	43.85	-15.03	74.00	30.15	200	324	Horizontal
4	3999	58.85	44.35	-14.50	74.00	29.65	200	301	Horizontal
5	4239	64.61	50.93	-13.68	74.00	23.07	200	126	Horizontal
6	9754.5	48.88	52.20	3.32	74.00	21.80	100	179	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.6	-17.94	54.27	36.33	54.00	17.67	200	203	Horizontal
2	4239	-13.68	50.24	36.56	54.00	17.44	200	126	Horizontal
3	9754.5	3.32	35.21	38.53	54.00	15.47	100	179	Horizontal

----- The following blanks -----

Mode: IEEE 802.11b (CDD)
MiddleFrequency (2437MHz)
Environment: 19.5°C/65%RH
Tested By:Zhang Zishan

Date: 2023-05-17
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.8	64.76	40.41	-24.35	74.00	33.59	200	208	Vertical
2	1873.8	61.33	40.54	-20.79	74.00	33.46	100	193	Vertical
3	2382	74.06	56.62	-17.44	74.00	17.38	200	335	Vertical
4	2497.2	69.94	54.69	-15.25	74.00	19.31	200	6	Vertical
5	7311	54.11	51.29	-2.82	74.00	22.71	200	68	Vertical
6	10537.5	47.90	52.34	4.44	74.00	21.66	200	159	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382	-17.44	54.32	36.88	54.00	17.12	200	335	Vertical
2	2497.2	-15.25	52.39	37.14	54.00	16.86	200	6	Vertical
3	7311	-2.82	47.28	44.46	54.00	9.54	200	68	Vertical
4	10537.5	4.44	35.72	40.16	54.00	13.84	200	159	Vertical

----- The following blanks -----

Mode: IEEE 802.11b(CDD)
Highest Frequency (2462MHz)
Environment: 19.5°C/65%RH
Tested By:Zhang Zishan

Date: 2023-05-17
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2339.2	67.72	49.73	-17.99	74.00	24.27	200	192	Horizontal
2	2497.8	62.23	47.16	-15.07	74.00	26.84	100	344	Horizontal
3	3411	62.85	46.90	-15.95	74.00	27.10	100	132	Horizontal
4	4249.5	64.43	50.76	-13.67	74.00	23.24	200	238	Horizontal
5	4923	58.17	47.83	-10.34	74.00	26.17	200	56	Horizontal
6	9834	48.01	51.62	3.61	74.00	22.38	100	263	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2339.2	-17.99	54.27	36.28	54.00	17.72	200	192	Horizontal
2	4249.5	-13.67	53.24	39.57	54.00	14.43	200	238	Horizontal
3	9834	3.61	34.27	37.88	54.00	16.12	100	263	Horizontal

----- The following blanks -----

Mode: IEEE 802.11b(CDD)
Highest Frequency (2462MHz)
Environment: 19.5°C/65%RH
Tested By:Zhang Zishan

Date: 2023-05-17
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1055.6	63.09	38.74	-24.35	74.00	35.26	200	172	Vertical
2	2363.4	73.62	55.79	-17.83	74.00	18.21	200	344	Vertical
3	2504.4	72.36	56.96	-15.40	74.00	17.04	200	20	Vertical
4	3417	63.84	47.75	-16.09	74.00	26.25	100	117	Vertical
5	7386	54.85	52.61	-2.24	74.00	21.39	100	46	Vertical
6	10558.5	47.84	52.31	4.47	74.00	21.69	200	270	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2363.4	-17.83	54.23	36.40	54.00	17.60	200	344	Vertical
2	2504.4	-15.40	55.21	39.81	54.00	14.19	200	20	Vertical
3	7386	-2.24	48.31	46.07	54.00	7.93	100	46	Vertical
4	10558.5	4.47	36.21	40.68	54.00	13.32	200	270	Vertical

----- The following blanks -----

Mode: IEEE 802.11n HT40(CDD)
Lowest Frequency (2422MHz)
Environment: 20.6°C/64%RH
Tested By:Zhang Zishan

Date: 2023-05-14
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.6	73.20	55.43	-17.77	74.00	18.57	200	193	Horizontal
2	3999	61.61	47.11	-14.50	74.00	26.89	200	106	Horizontal
3	4224	65.39	51.68	-13.71	74.00	22.32	200	186	Horizontal
4	5281.5	56.05	45.52	-10.53	74.00	28.48	200	218	Horizontal
5	10504.5	47.68	51.25	3.57	74.00	22.75	100	156	Horizontal
6	16096.5	44.39	50.76	6.37	74.00	23.24	200	227	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.6	-17.77	53.38	35.61	54.00	18.39	200	193	Horizontal
2	4224	-13.71	50.56	36.85	54.00	17.15	200	186	Horizontal
3	10504.5	3.57	38.27	41.84	54.00	12.16	100	156	Horizontal
4	16096.5	6.37	34.93	41.30	54.00	12.70	200	227	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1052.4	64.51	40.18	-24.33	74.00	33.82	200	233	Vertical
2	2384.2	80.43	63.03	-17.40	74.00	10.97	100	172	Vertical
3	2501.8	67.03	51.75	-15.28	74.00	22.25	200	335	Vertical
4	4728	54.05	42.32	-11.73	74.00	31.68	100	16	Vertical
5	9309	50.40	52.27	1.87	74.00	21.73	100	168	Vertical
6	17548.5	45.12	51.74	6.62	74.00	22.26	100	16	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.373	-17.40	61.34	43.94	54.00	10.06	121	176.9	Vertical
2	2501.8	-15.28	56.33	41.05	54.00	12.95	200	335	Vertical
3	9309	1.87	40.37	42.24	54.00	11.76	100	168	Vertical
4	17548.5	6.62	36.29	42.91	54.00	11.09	100	16	Vertical

Mode: IEEE 802.11n HT40(CDD)
MiddleFrequency (2437MHz)
Environment: 20.6°C/64%RH
Tested By:Zhang Zishan

Date: 2023-05-14
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.4	70.88	53.02	-17.86	74.00	20.98	200	206	Horizontal
2	2496	62.62	47.49	-15.13	74.00	26.51	200	14	Horizontal
3	3978	60.76	46.37	-14.39	74.00	27.63	200	132	Horizontal
4	4221	66.39	52.67	-13.72	74.00	21.33	200	182	Horizontal
5	9334.5	49.13	51.11	1.98	74.00	22.89	100	303	Horizontal
6	17541	44.81	51.04	6.23	74.00	22.96	100	210	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.4	-17.86	55.38	37.52	54.00	16.48	200	206	Horizontal
2	4223.138	-13.72	49.30	35.58	54.00	18.42	185	185.4	Horizontal
3	9334.5	1.98	40.16	42.14	54.00	11.86	100	303	Horizontal
4	17541	6.23	35.28	41.51	54.00	12.49	100	210	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1055.6	69.00	44.65	-24.35	74.00	29.35	100	228	Vertical
2	2382.2	80.04	62.60	-17.44	74.00	11.40	200	350	Vertical
3	2495.8	75.08	59.81	-15.27	74.00	14.19	200	350	Vertical
4	2663.8	66.17	48.66	-17.51	74.00	25.34	100	197	Vertical
5	10585.5	47.11	51.41	4.30	74.00	22.59	200	345	Vertical
6	17553	45.17	51.80	6.63	74.00	22.20	100	224	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.305	-17.44	59.53	42.09	54.00	11.91	200	335.2	Vertical
2	2495.8	-15.27	58.37	43.10	54.00	10.90	200	350	Vertical
3	2663.8	-17.51	55.21	37.70	54.00	16.30	100	197	Vertical
4	10585.5	4.30	39.52	43.82	54.00	10.18	200	345	Vertical
5	17553	6.63	36.76	43.39	54.00	10.61	100	224	Vertical

Mode: IEEE 802.11n HT40(CDD)
Highest Frequency (2452MHz)
Environment: 20.6°C/64%RH
Tested By:Zhang Zishan

Date: 2023-05-14
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1064.8	63.44	39.80	-23.64	74.00	34.20	100	102	Horizontal
2	2374.4	67.17	49.27	-17.90	74.00	24.73	100	193	Horizontal
3	2518.4	61.87	46.19	-15.68	74.00	27.81	100	52	Horizontal
4	4263	66.85	53.24	-13.61	74.00	20.76	200	187	Horizontal
5	10227	48.03	51.61	3.58	74.00	22.39	100	56	Horizontal
6	17556	45.03	51.20	6.17	74.00	22.80	200	357	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.4	-17.90	57.39	39.49	54.00	14.51	100	193	Horizontal
2	4255.967	-13.61	49.03	35.42	54.00	18.58	200	184.2	Horizontal
3	10227	3.58	38.31	41.89	54.00	12.11	100	56	Horizontal
4	17556	6.17	36.53	42.70	54.00	11.30	200	357	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1063	67.31	42.92	-24.39	74.00	31.08	200	173	Vertical
2	2366.4	74.13	56.37	-17.76	74.00	17.63	100	173	Vertical
3	2496	71.42	56.15	-15.27	74.00	17.85	100	41	Vertical
4	4735.5	54.45	42.85	-11.60	74.00	31.15	100	138	Vertical
5	9873	48.32	51.68	3.36	74.00	22.32	200	237	Vertical
6	17604	44.95	51.18	6.23	74.00	22.82	200	207	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.4	-17.76	55.81	38.05	54.00	15.95	100	173	Vertical
2	2495.856	-15.27	56.90	41.63	54.00	12.37	156	33.7	Vertical
3	9873	3.36	38.27	41.63	54.00	12.37	200	237	Vertical
4	17604	6.23	36.35	42.58	54.00	11.42	200	207	Vertical

Mode: IEEE 802.11ax HE20(SDM)
Lowest Frequency (2412MHz)
Environment: 21.7°C/61%RH
Tested By:Zhang Zishan

Date: 2023-05-12
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.007	62.47	38.66	-23.81	74.00	35.34	200	166	Horizontal
2	1929.3662	60.59	39.93	-20.66	74.00	34.07	200	28	Horizontal
3	2371.6715	67.32	49.38	-17.94	74.00	24.62	100	194	Horizontal
4	3999.4999	58.87	44.37	-14.50	74.00	29.63	200	300	Horizontal
5	4243.2804	65.83	52.15	-13.68	74.00	21.85	200	183	Horizontal
6	10497.1871	49.04	52.57	3.53	74.00	21.43	100	36	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.6715	-17.94	60.69	42.75	54.00	11.25	100	194	Horizontal
2	4243.2804	-13.68	50.87	37.19	54.00	16.81	200	183	Horizontal
3	10497.1871	3.53	41.28	44.81	54.00	9.19	100	36	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1055.757	62.83	38.48	-24.35	74.00	35.52	200	276	Vertical
2	2380.6726	73.54	56.07	-17.47	74.00	17.93	200	343	Vertical
3	2907.9885	59.96	43.66	-16.30	74.00	30.34	100	148	Vertical
4	4239.5299	58.30	44.58	-13.72	74.00	29.42	200	242	Vertical
5	9735.842	49.18	52.80	3.62	74.00	21.20	100	105	Vertical
6	17527.4409	45.53	51.67	6.14	74.00	22.33	200	172	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.2242	-17.47	62.49	45.02	54.00	8.98	181	342.7	Vertical
2	9735.842	3.62	40.85	44.47	54.00	9.53	100	105	Vertical
3	17527.4409	6.14	39.69	45.83	54.00	8.17	200	172	Vertical

Mode: IEEE 802.11ax HE20(SDM)
MiddleFrequency (2437MHz)
Environment: 21.7°C/61%RH
Tested By:Zhang Zishan

Date: 2023-05-12
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1059.2574	62.85	39.10	-23.75	74.00	34.90	200	141	Horizontal
2	2368.9211	67.13	49.16	-17.97	74.00	24.84	100	186	Horizontal
3	3999.4999	63.64	49.14	-14.50	74.00	24.86	200	114	Horizontal
4	4262.0328	66.74	53.13	-13.61	74.00	20.87	200	142	Horizontal
5	9756.4696	48.65	51.99	3.34	74.00	22.01	200	15	Horizontal
6	17542.4428	46.72	52.97	6.25	74.00	21.03	200	132	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2368.9211	-17.97	60.44	42.47	54.00	11.53	100	186	Horizontal
2	3999.4999	-14.50	55.66	41.16	54.00	12.84	200	114	Horizontal
3	4262.0328	-13.61	50.98	37.37	54.00	16.63	200	142	Horizontal
4	9756.4696	3.34	40.57	43.91	54.00	10.09	200	15	Horizontal
5	17542.4428	6.25	37.25	43.50	54.00	10.50	200	132	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.5071	63.78	39.43	-24.35	74.00	34.57	200	217	Vertical
2	2377.6722	72.68	55.14	-17.54	74.00	18.86	100	177	Vertical
3	2501.4377	67.89	52.63	-15.26	74.00	21.37	100	276	Vertical
4	3168.7711	62.20	46.09	-16.11	74.00	27.91	100	194	Vertical
5	4755.2194	55.59	44.17	-11.42	74.00	29.83	100	212	Vertical
6	9763.9705	48.36	52.12	3.76	74.00	21.88	200	259	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.4058	-17.54	60.62	43.08	54.00	10.92	108	175.3	Vertical
2	2498.6145	-15.26	55.99	40.73	54.00	13.27	121	317.2	Vertical
3	9763.9705	3.76	40.28	44.04	54.00	9.96	200	259	Vertical

Mode: IEEE 802.11ax HE20(SDM)
Highest Frequency (2462MHz)
Environment: 21.7°C/61%RH
Tested By:Zhang Zishan

Date: 2023-05-12
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1059.5074	63.25	39.51	-23.74	74.00	34.49	100	81	Horizontal
2	2365.9207	66.10	48.10	-18.00	74.00	25.90	100	200	Horizontal
3	2500.1875	61.33	46.33	-15.00	74.00	27.67	200	11	Horizontal
4	4262.0328	66.88	53.27	-13.61	74.00	20.73	200	192	Horizontal
5	5319.665	55.43	45.05	-10.38	74.00	28.95	200	181	Horizontal
6	9876.4846	48.82	52.17	3.35	74.00	21.83	100	202	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.0161	-18.00	58.55	40.55	54.00	13.45	121	179.7	Horizontal
2	2495.9176	-15.00	51.54	36.54	54.00	17.46	200	186.6	Horizontal
3	4242.6656	-13.61	51.07	37.46	54.00	16.54	200	194.5	Horizontal
4	9876.4846	3.35	40.95	44.30	54.00	9.70	100	202	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1055.757	63.75	39.40	-24.35	74.00	34.60	100	286	Vertical
2	2364.9206	72.13	54.33	-17.80	74.00	19.67	100	169	Vertical
3	2495.687	73.01	57.74	-15.27	74.00	16.26	200	346	Vertical
4	2919.99	61.55	45.21	-16.34	74.00	28.79	200	150	Vertical
5	5989.1236	53.93	45.76	-8.17	74.00	28.24	100	45	Vertical
6	10549.6937	48.16	52.69	4.53	74.00	21.31	200	338	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.944	-17.80	59.98	42.18	54.00	11.82	114	173.9	Vertical
2	2496.0846	-15.27	61.14	45.87	54.00	8.13	119	16.6	Vertical
3	10549.6937	4.53	40.58	45.11	54.00	8.89	200	338	Vertical

Mode: IEEE 802.11ax HE40(SDM)
Lowest Frequency (2422MHz)
Environment: 21.7°C/61%RH
Tested By:Zhang Zishan

Date: 2023-05-12
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1059.2574	63.05	39.30	-23.75	74.00	34.70	200	137	Horizontal
2	2383.673	67.86	50.09	-17.77	74.00	23.91	100	205	Horizontal
3	2655.957	60.79	43.35	-17.44	74.00	30.65	200	315	Horizontal
4	4220.7776	66.73	53.01	-13.72	74.00	20.99	200	191	Horizontal
5	5284.0355	58.27	47.72	-10.55	74.00	26.28	200	221	Horizontal
6	9767.721	48.56	51.98	3.42	74.00	22.02	200	250	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.673	-17.77	60.59	42.82	54.00	11.18	100	205	Horizontal
2	4220.7776	-13.72	51.69	37.97	54.00	16.03	200	191	Horizontal
3	9767.721	3.42	41.28	44.70	54.00	9.30	200	250	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1064.008	68.92	44.53	-24.39	74.00	29.47	100	236	Vertical
2	2381.1726	76.61	59.14	-17.47	74.00	14.86	200	346	Vertical
3	2498.1873	67.66	52.44	-15.22	74.00	21.56	200	346	Vertical
4	3168.7711	60.48	44.37	-16.11	74.00	29.63	200	192	Vertical
5	4237.6547	57.03	43.31	-13.72	74.00	30.69	200	242	Vertical
6	9765.8457	48.99	52.74	3.75	74.00	21.26	100	104	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.5217	-17.47	60.19	42.72	54.00	11.28	159	335.5	Vertical
2	2500.3924	-15.22	55.12	39.90	54.00	14.10	166	343.4	Vertical
3	9765.8457	3.75	40.85	44.60	54.00	9.40	100	104	Vertical

Mode: IEEE 802.11ax HE40(SDM)
MiddleFrequency (2437MHz)
Environment: 21.7°C/61%RH
Tested By:Zhang Zishan

Date: 2023-05-12
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1061.5077	61.63	37.93	-23.70	74.00	36.07	100	206	Horizontal
2	2372.4216	65.46	47.54	-17.92	74.00	26.46	100	187	Horizontal
3	2498.4373	59.74	44.69	-15.05	74.00	29.31	200	314	Horizontal
4	3187.5234	57.95	42.36	-15.59	74.00	31.64	200	232	Horizontal
5	4250.7813	66.51	52.84	-13.67	74.00	21.16	200	182	Horizontal
6	9859.6075	48.73	52.23	3.50	74.00	21.77	100	291	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4250.7813	-13.67	51.69	38.02	54.00	15.98	200	182	Horizontal
2	9859.6075	3.50	42.39	45.89	54.00	8.11	100	291	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1057.7572	64.97	40.61	-24.36	74.00	33.39	200	186	Vertical
2	2374.9219	71.95	54.36	-17.59	74.00	19.64	100	176	Vertical
3	2497.9372	72.92	57.70	-15.22	74.00	16.30	200	343	Vertical
4	2921.7402	64.00	47.66	-16.34	74.00	26.34	100	166	Vertical
5	3189.3987	61.53	45.43	-16.10	74.00	28.57	100	132	Vertical
6	10540.3175	48.67	53.13	4.46	74.00	20.87	100	192	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.3443	-17.59	59.71	42.12	54.00	11.88	122	173.5	Vertical
2	2499.3105	-15.22	57.03	41.81	54.00	12.19	119	17.1	Vertical
3	10540.3175	4.46	40.28	44.74	54.00	9.26	100	192	Vertical

Mode: IEEE 802.11ax HE40(SDM)
Highest Frequency (2452MHz)
Environment: 21.7°C/61%RH
Tested By:Zhang Zishan

Date: 2023-05-12
Voltage:AC120V/60Hz
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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1055.5069	61.39	37.58	-23.81	74.00	36.42	100	184	Horizontal
2	1329.7912	59.16	37.08	-22.08	74.00	36.92	200	202	Horizontal
3	2373.4217	66.12	48.21	-17.91	74.00	25.79	100	193	Horizontal
4	2497.4372	66.41	51.33	-15.08	74.00	22.67	200	15	Horizontal
5	4241.4052	65.77	52.09	-13.68	74.00	21.91	200	188	Horizontal
6	9338.2923	49.17	51.16	1.99	74.00	22.84	100	345	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.4217	-17.91	60.39	42.48	54.00	11.52	100	193	Horizontal
2	2497.4372	-15.08	60.95	45.87	54.00	8.13	200	15	Horizontal
3	4241.4052	-13.68	51.69	38.01	54.00	15.99	200	188	Horizontal
4	9338.2923	1.99	40.39	42.38	54.00	11.62	100	345	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.7571	65.27	40.92	-24.35	74.00	33.08	200	211	Vertical
2	2376.172	72.16	54.59	-17.57	74.00	19.41	200	348	Vertical
3	2498.9374	78.31	63.10	-15.21	74.00	10.90	100	15	Vertical
4	3165.0206	60.00	43.89	-16.11	74.00	30.11	100	138	Vertical
5	4935.2419	54.85	43.94	-10.91	74.00	30.06	200	324	Vertical
6	9979.6225	49.07	52.17	3.10	74.00	21.83	100	276	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.0401	-17.57	60.32	42.75	54.00	11.25	180	336.5	Vertical
2	2498.6847	-15.21	60.02	44.81	54.00	9.19	181	4.9	Vertical
3	9979.6225	3.10	38.69	41.79	54.00	12.21	100	276	Vertical