

# Test Report

Verified code: 038143

Report No.: E20230322427101-2

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: AX1800 Dual Band WiFi6 CATV GPON Terminal

Sample Model: NP1835GRF

Receive Sample Date: Mar.29,2023

Test Date: Apr.10,2023 ~ May.09,2023

Reference Document: CFR 47, FCC Part 15 Subpart C  
RADIO FREQUENCY DEVICES:Subpart C—Intentional Radiators

Test Result: Pass

Prepared by: *Huang Lifang*

Reviewed by: *Jiang Tom*

Approved by: *Xiao Liang*

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-06-02

GRG METROLOGY & TEST GROUP CO., LTD.

Address: No.163, Pingyun Road, West of Huangpu Avenue, Guangzhou, Guangdong, China

Tel: (+86) 400-602-0999 FAX: (+86) 020-38698685 Web: <http://www.grgtest.com>



## Statement

1. The report is invalid without "special seal for inspection and testing"; some copies are invalid; The report is invalid if it is altered or missing; The report is invalid without the signature of the person who prepared, reviewed and approved it.
2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.
3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.
4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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

## 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.....	9
2.7.	CONFIGURATION OF SYSTEM UNDER TEST.....	9
2.8.	DUTY CYCLE.....	10
3.	LABORATORY AND ACCREDITATIONS.....	12
3.1.	LABORATORY.....	12
3.2.	ACCREDITATIONS.....	12
3.3.	MEASUREMENT UNCERTAINTY.....	13
4.	LIST OF USED TEST EQUIPMENT AT GRGT.....	14
5.	CONDUCTED EMISSION MEASUREMENT.....	16
5.1	LIMITS.....	16
5.2	TEST PROCEDURES.....	16
5.3	TEST SETUP.....	17
5.4	DATA SAMPLE.....	17
5.5	TEST RESULTS.....	18
6.	RADIATED SPURIOUS EMISSIONS.....	26
6.1.	LIMITS.....	26
6.2.	TEST PROCEDURES.....	26
6.3.	TEST SETUP.....	30
6.4.	DATA SAMPLE.....	31
6.5.	TEST RESULTS.....	33
7.	6DB BANDWIDTH.....	68
7.1.	LIMITS.....	68
7.2.	TEST PROCEDURES.....	68
7.3.	TEST SETUP.....	68
7.4.	TEST RESULTS.....	69
8.	MAXIMUM PEAK OUTPUT POWER.....	82
8.1.	LIMITS.....	82
8.2.	TEST PROCEDURES.....	82
8.3.	TEST SETUP.....	82
8.4.	TEST RESULT.....	83
9.	POWER SPECTRAL DENSITY.....	85
9.1.	LIMITS.....	85
9.2.	TEST PROCEDURES.....	85
9.3.	TEST SETUP.....	85

9.4.	TEST RESULTS .....	86
10.	CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS .....	102
10.1.	LIMITS.....	102
10.2.	TEST PROCEDURES .....	102
10.3.	TEST SETUP .....	102
10.4.	TEST RESULTS .....	103
11.	RESTRICTED BANDS OF OPERATION.....	151
11.1.	LIMITS.....	151
11.2.	TEST PROCEDURES .....	152
11.3.	TEST SETUP .....	152
11.4.	TEST RESULTS .....	153
	APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM .....	185
	APPENDIX B. PHOTOGRAPH OF THE EUT .....	185

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

**REPORT ISSUED HISTORY**

<b>Report Version</b>	<b>Report No.</b>	<b>Description</b>	<b>Compile Date</b>
1.0	E20230322427101-2	Original Issue	2023-05-10

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

**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
	Maximum Peak 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 4.12dBi, which accordance 15.203 is considered sufficient to comply with the provisions of this section.

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

## 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: AX1800 Dual Band WiFi6 CATV GPON Terminal

Adding Product Name: AX1800 Dual Band WiFi6 GPON Terminal

Product Model: NP1835GRF

Adding Model: NP1835G, NP1835GB

Model difference description: The above series models are consistent with the main model in terms of schematic diagram, circuit design, circuit layout, and internal structure, The differences are mainly due to the inconsistency of model name and NP1835GRF with RF Port、Telephone Port but without USB Port, NP1835G without RF Port but with Telephone Port and USB Port, NP1835GB without RF Port、Telephone Port、USB Port.

Trade Name: SDMC, D FIBRA

FCC ID: 2AW68-NP1835GRF

Power Supply: DC 12.0V power supplied by adapter

Adapter Specification: NP1835GRF:  
Adapter 1:  
Model:SA182V-120150U;  
Input:100-240V~50/60Hz 0.4A;  
Output:12V ----- 1.5A;  
NP1835G:  
Adapter 1:  
Model:SA182V-120150U;  
Input:100-240V~50/60Hz 0.4A;  
Output:12V ----- 1.5A;  
NP1835GB:  
Adapter 1:  
Model:F12L33-120100SPAU;  
Input:100-240V~50/60Hz 0.3A;  
Output:12V ----- 1A 12.0W;  
Adapter 2:  
Model:SA12BV-120100U;  
Input:100-240V~50/60Hz 0.4A;  
Output:12V ----- 1A.

Frequency Band: 2412MHz-2462MHz for 802.11b/g/n HT20/ax HE20  
2422MHz-2452MHz: 802.11n HT40/ax HE40

Modulation Type: DSSS for 802.11b mode;  
OFDM for 802.11g/n mode  
OFDM , OFDMA for 802.11ax mode

Antenna Specification: Built-in antenna 1 with 4.12dBi gain (Max)  
Built-in antenna 2 with 2.37dBi gain (Max)

Temperature Range: 0°C~40°C

Hardware Version: V1.0

Software Version: NP1835GRF: S01.1B.01.001  
NP1835G: NP1835GR005  
NP1835GB: S01.31.19.003

Sample submitting way:  Provided by customer  Sampling

Sample No: E20230322427101-0001, E20230322427101-0002, E20230322427101-0003,  
E20230322427101-0004, E20230322427101-0005

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, IEEE 802.11ax HE20							
CH03 – CH09 for IEEE 802.11n HT40, IEEE 802.11ax HE40,							
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
QATool_Dbg

**Power Setting:**

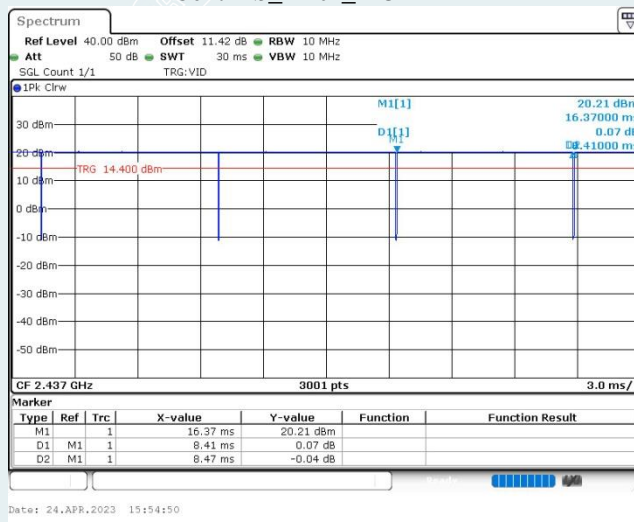
Mode	Date Rate	Frequency (MHz)	Antenna 1 Power Setting	Antenna 2 Power Setting
802.11b	1M	2412	15.5	17
		2437	16	17
		2462	16	17
802.11g	6M	2412	15.5	17
		2437	16	17
		2462	16	15
802.11n HT20	MCS8	2412	15.5	15.5
		2437	15.5	15.5
		2462	15.5	15.5
802.11n HT40	MCS8	2422	15.5	15.5
		2437	15.5	15.5
		2452	15.5	15.5
802.11ax HE20	MCS0	2412	15.5	15.5
		2437	15.5	15.5
		2462	15.5	15.5
802.11ax HE40	MCS0	2422	15.5	15.5
		2437	15.5	15.5
		2452	15.5	15.5

2.8. DUTY CYCLE

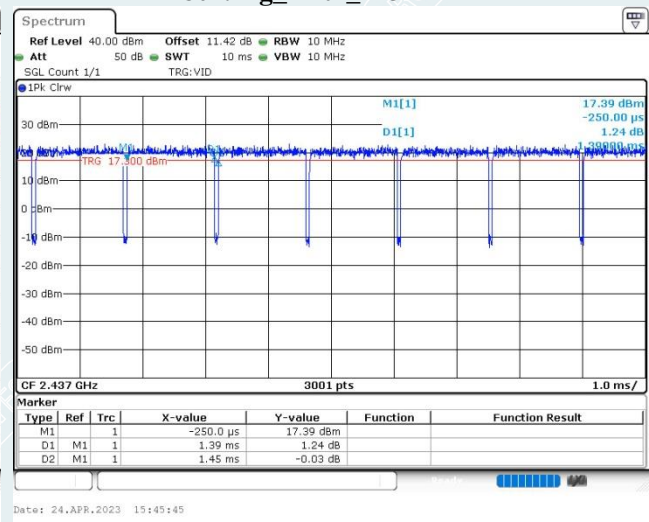
<b>EUT Name</b>	AX1800 Dual Band WiFi6 CATV GPON Terminal	<b>Model</b>	NP1835GRF
<b>Environmental Conditions</b>	22.6°C/63%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Tested By</b>	Yang Zhaoyun	<b>Tested Date</b>	2023-04-24~2023-04-26

Test Mode	Antenna	Frequency (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	T [s]
802.11b	Ant1	2437	8.41	8.47	99.29	0.00841
802.11g	Ant1	2437	1.39	1.45	95.86	0.00139
802.11n HT20	Ant1	2437	0.68	0.74	91.89	0.00068
802.11n HT40	Ant1	2437	0.35	0.40	87.50	0.00035
802.11ax HE20	Ant1	2437	0.21	0.27	77.78	0.00021
802.11ax HE40	Ant1	2437	0.32	0.38	84.21	0.00032

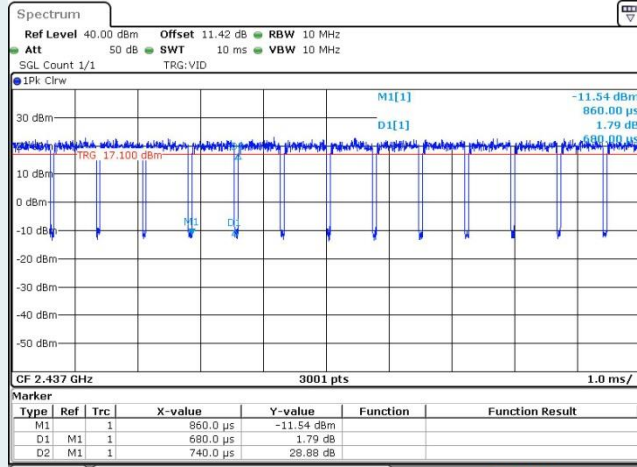
802.11b\_Ant1\_2437MHz



802.11g\_Ant1\_2437MHz

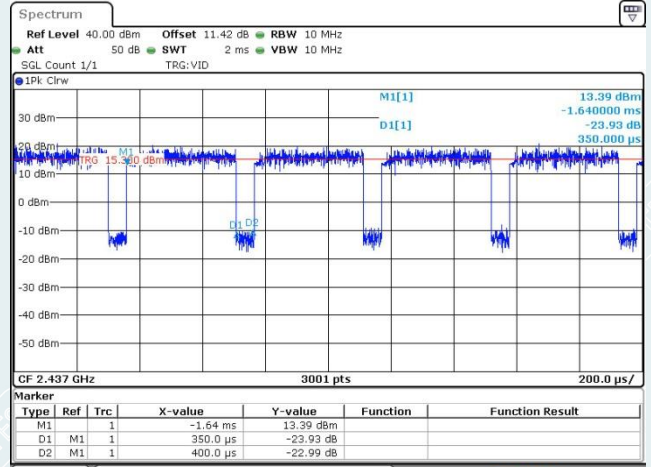


802.11n HT20\_Ant1\_2437MHz



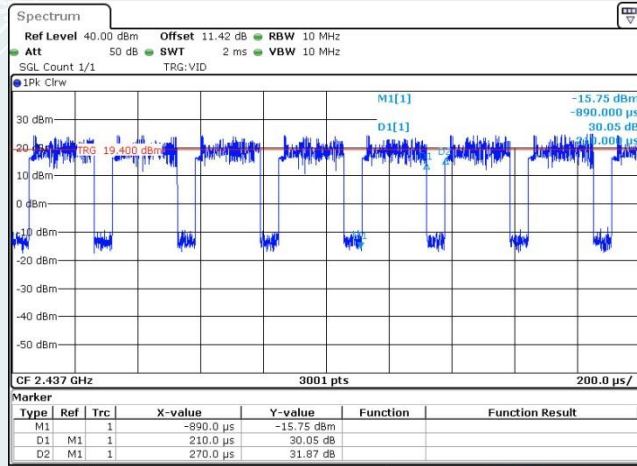
Date: 26.APR.2023 08:37:27

802.11n HT40\_Ant1\_2437MHz



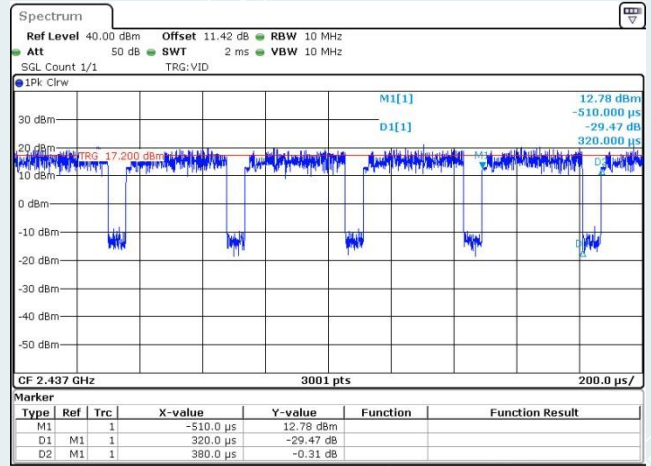
Date: 26.APR.2023 09:26:10

802.11ax HE20\_Ant1\_2437MHz



Date: 26.APR.2023 11:03:37

802.11ax HE40\_Ant1\_2437MHz



Date: 26.APR.2023 13:08:22

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

### 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 Guangang 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>

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

**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	$6.0 \times 10^{-6}$
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  $k=2$ .

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

**4. LIST OF USED TEST EQUIPMENT AT GRGT**

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
<b>Conducted Emissions</b>				
EZ-EMC	EZ	CCS-3A1-CE	/	/
EMI Receiver	R&S	ESCI	100783	2023-08-28
LISN(EUT)	R&S	ENV216	101543	2023-09-13
<b>Radiated Spurious Emission&amp;Restricted bands of operation</b>				
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-G4 0	20200928005	2023-08-27
Test S/W	Tonscend	JS32-RE/2.5.2.4		
<b>6 dB Bandwidth</b>				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17
<b>Output Power</b>				
Pulse power sensor	Anristu	MA2411B	1126150	2024-02-12
Power meter	Anristu	ML2495A	1204003	2024-02-12

<b>Conducted band edges and Spurious Emission</b>				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17
<b>Power Spectral Density</b>				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17

Note: The calibration interval of the above test instruments is 12 months except Bi-log Antenna, The calibration interval of the Bi-log Antenna is 24 months.

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

## 5. CONDUCTED EMISSION MEASUREMENT

### 5.1 LIMITS

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

### 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.

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.

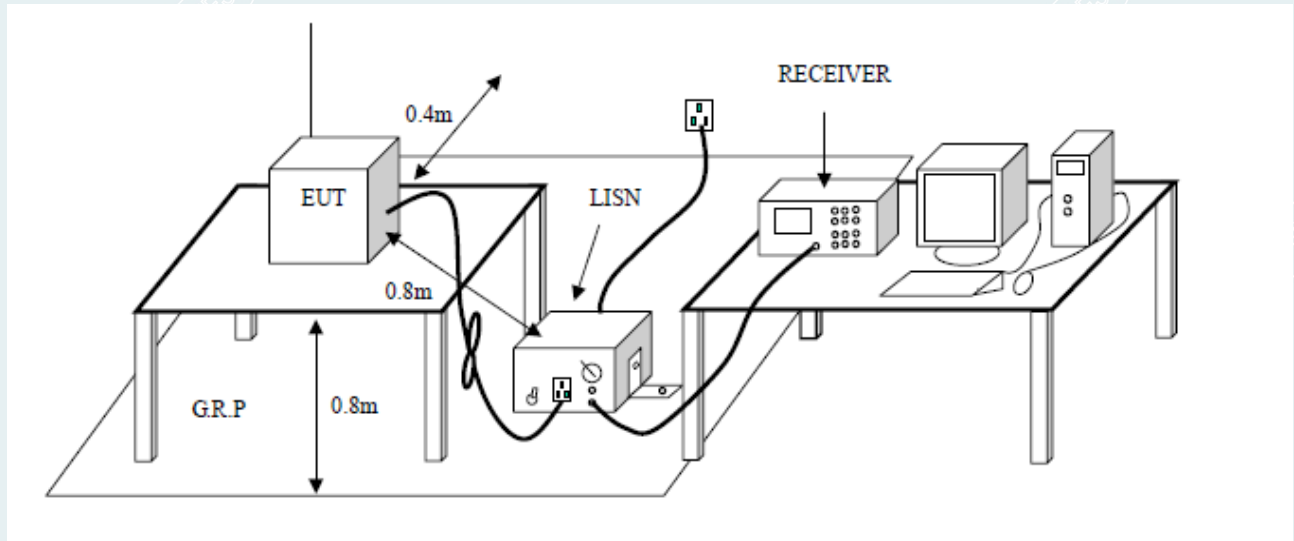
#### Procedure of Final Test

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)

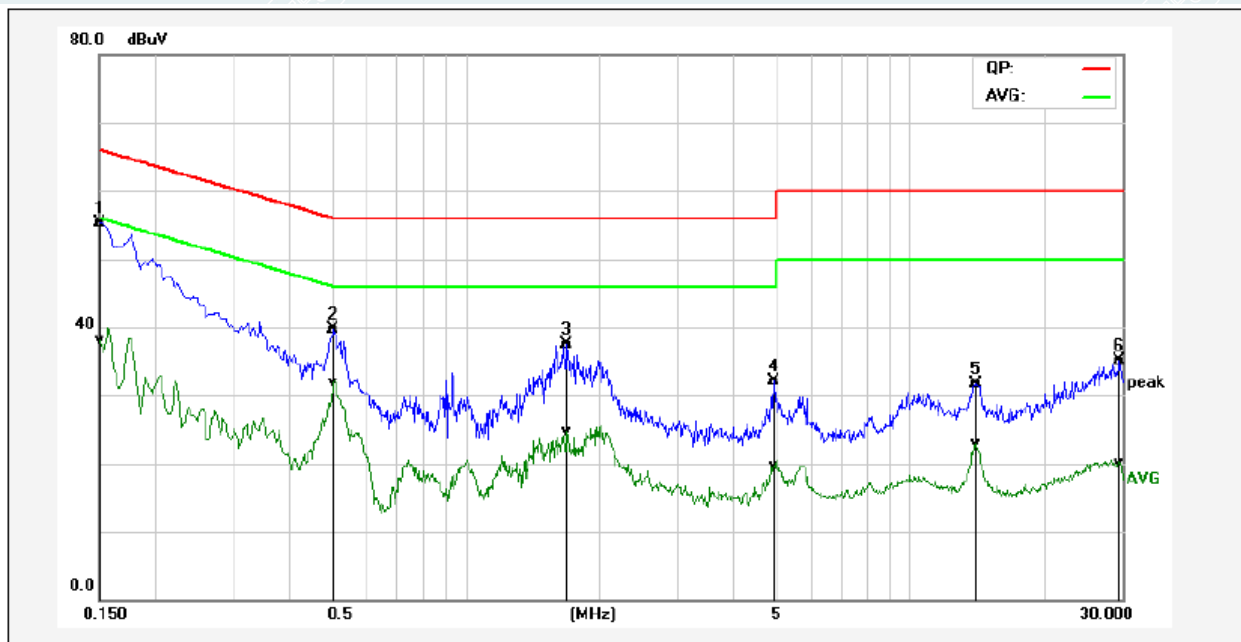
----- The following blanks -----

### 5.5 TEST RESULTS

All models were pretested and only the worst modes and channels were recorded in this report. (IEEE 802.11n HT40 2422MHz)

<b>EUT Name</b>	AX1800 Dual Band WiFi6 CATV GPON Terminal	<b>Model</b>	NP1835GRF
<b>Environmental Conditions</b>	22.7°C/51%RH	<b>Test Mode</b>	MODE 1
<b>Tested By</b>	Tang Shenghui	<b>Line</b>	L
<b>Tested Date</b>	2023-05-09	<b>Test Voltage</b>	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)

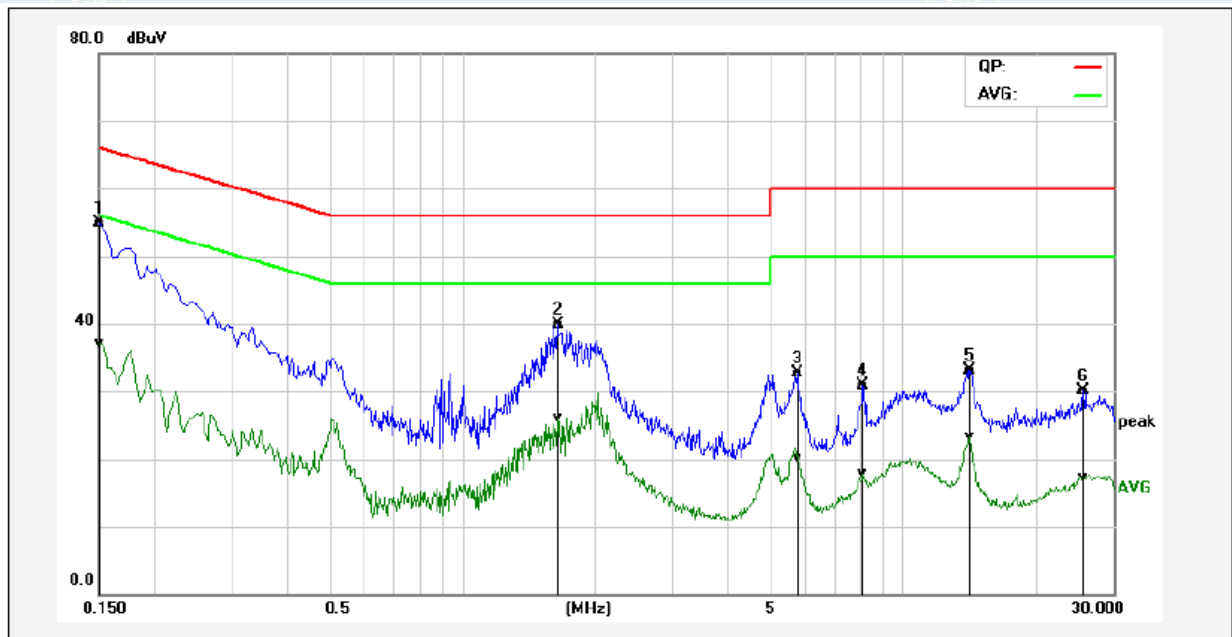


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	45.66	28.53	9.61	55.27	38.14	65.99	56.00	-10.72	-17.86	Pass
2	0.5060	30.03	22.24	9.61	39.64	31.85	56.00	46.00	-16.36	-14.15	Pass
3	1.6900	27.89	15.05	9.65	37.54	24.70	56.00	46.00	-18.46	-21.30	Pass
4	4.9340	22.32	10.09	9.70	32.02	19.79	56.00	46.00	-23.98	-26.21	Pass
5	14.0180	21.89	13.18	9.80	31.69	22.98	60.00	50.00	-28.31	-27.02	Pass
6	29.6420	25.28	10.26	9.84	35.12	20.10	60.00	50.00	-24.88	-29.90	Pass

**REMARKS:** L = Live Line

<b>EUT Name</b>	AX1800 Dual Band WiFi6 CATV GPON Terminal	<b>Model</b>	NP1835GRF
<b>Environmental Conditions</b>	22.7°C/51%RH	<b>Test Mode</b>	MODE 1
<b>Tested By</b>	Tang Shenghui	<b>Line</b>	N
<b>Tested Date</b>	2023-05-09	<b>Test Voltage</b>	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)

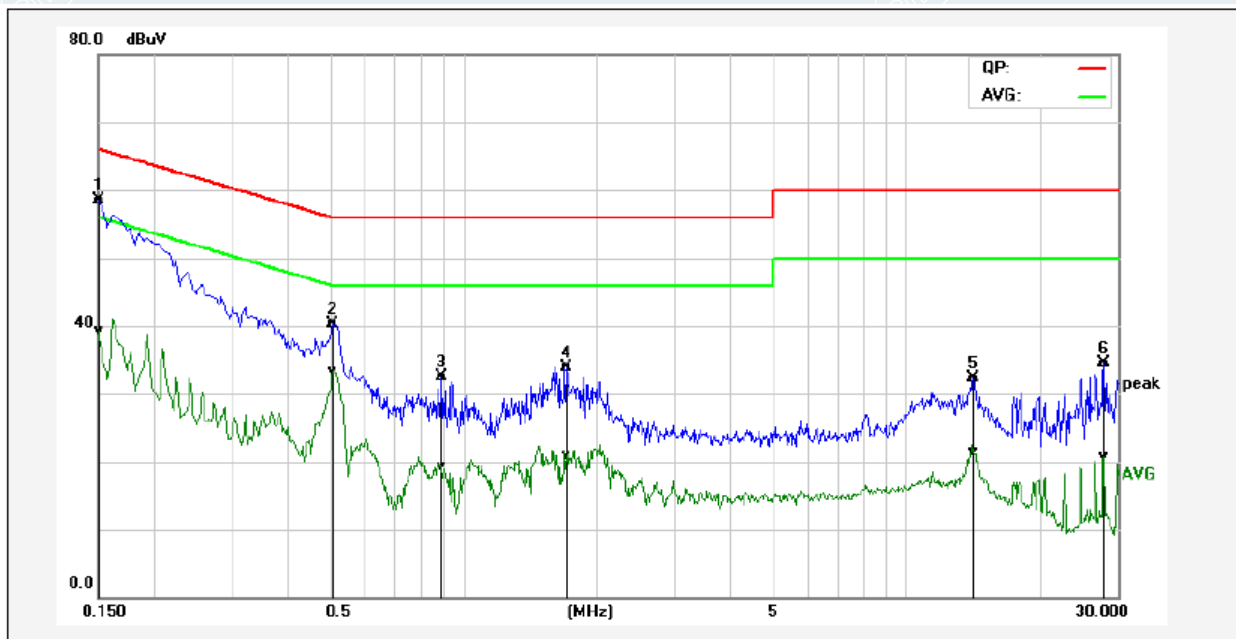


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	45.33	27.57	9.60	54.93	37.17	65.99	56.00	-11.06	-18.83	Pass
2	1.6460	30.21	16.41	9.64	39.85	26.05	56.00	46.00	-16.15	-19.95	Pass
3	5.7580	22.92	10.36	9.72	32.64	20.08	60.00	50.00	-27.36	-29.92	Pass
4	8.1260	21.22	8.08	9.76	30.98	17.84	60.00	50.00	-29.02	-32.16	Pass
5	14.1380	23.31	13.36	9.86	33.17	23.22	60.00	50.00	-26.83	-26.78	Pass
6	25.6980	20.02	7.20	10.07	30.09	17.27	60.00	50.00	-29.91	-32.73	Pass

**REMARKS:** N = Neutral Line.

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835G
<b>Environmental Conditions</b>	22.7°C/51%RH	<b>Test Mode</b>	MODE 1
<b>Tested By</b>	Tang Shenghui	<b>Line</b>	L
<b>Tested Date</b>	2023-05-09	<b>Test Voltage</b>	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)

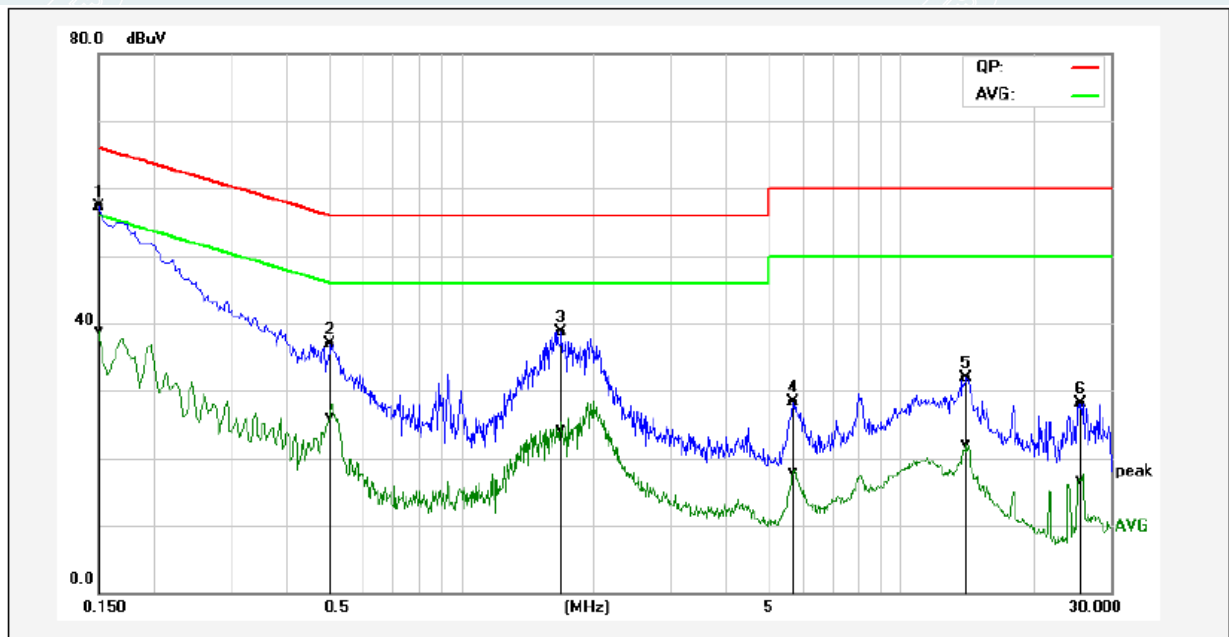


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	48.90	29.65	9.61	58.51	39.26	65.99	56.00	-7.48	-16.74	Pass
2	0.5100	30.60	23.67	9.61	40.21	33.28	56.00	46.00	-15.79	-12.72	Pass
3	0.8980	22.82	9.70	9.63	32.45	19.33	56.00	46.00	-23.55	-26.67	Pass
4	1.7140	24.18	11.23	9.65	33.83	20.88	56.00	46.00	-22.17	-25.12	Pass
5	14.1900	22.54	11.80	9.80	32.34	21.60	60.00	50.00	-27.66	-28.40	Pass
6	27.8900	24.59	10.81	9.87	34.46	20.68	60.00	50.00	-25.54	-29.32	Pass

**REMARKS:** L = Live Line

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835G
<b>Environmental Conditions</b>	22.7°C/51%RH	<b>Test Mode</b>	MODE 1
<b>Tested By</b>	Tang Shenghui	<b>Line</b>	N
<b>Tested Date</b>	2023-05-09	<b>Test Voltage</b>	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



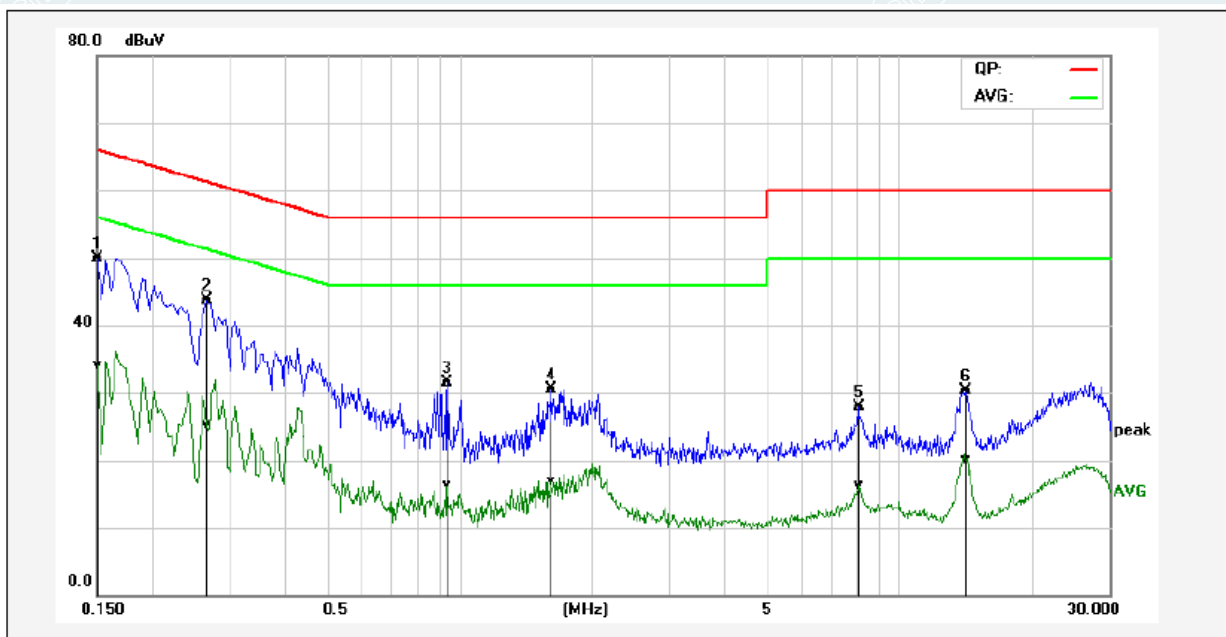
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	47.73	29.22	9.60	57.33	38.82	65.99	56.00	-8.66	-17.18	Pass
2	0.5060	27.30	16.46	9.60	36.90	26.06	56.00	46.00	-19.10	-19.94	Pass
3	1.6940	29.04	14.61	9.64	38.68	24.25	56.00	46.00	-17.32	-21.75	Pass
4	5.7060	18.56	8.11	9.72	28.28	17.83	60.00	50.00	-31.72	-32.17	Pass
5	14.0780	22.07	12.28	9.86	31.93	22.14	60.00	50.00	-28.07	-27.86	Pass
6	25.6420	18.10	6.59	10.07	28.17	16.66	60.00	50.00	-31.83	-33.34	Pass

**REMARKS:** N = Neutral Line.

Adapter 1 (F12L33-120100SPAU)

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835GB
<b>Environmental Conditions</b>	22.7°C/51%RH	<b>Test Mode</b>	MODE 1
<b>Tested By</b>	Tang Shenghui	<b>Line</b>	L
<b>Tested Date</b>	2023-05-09	<b>Test Voltage</b>	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



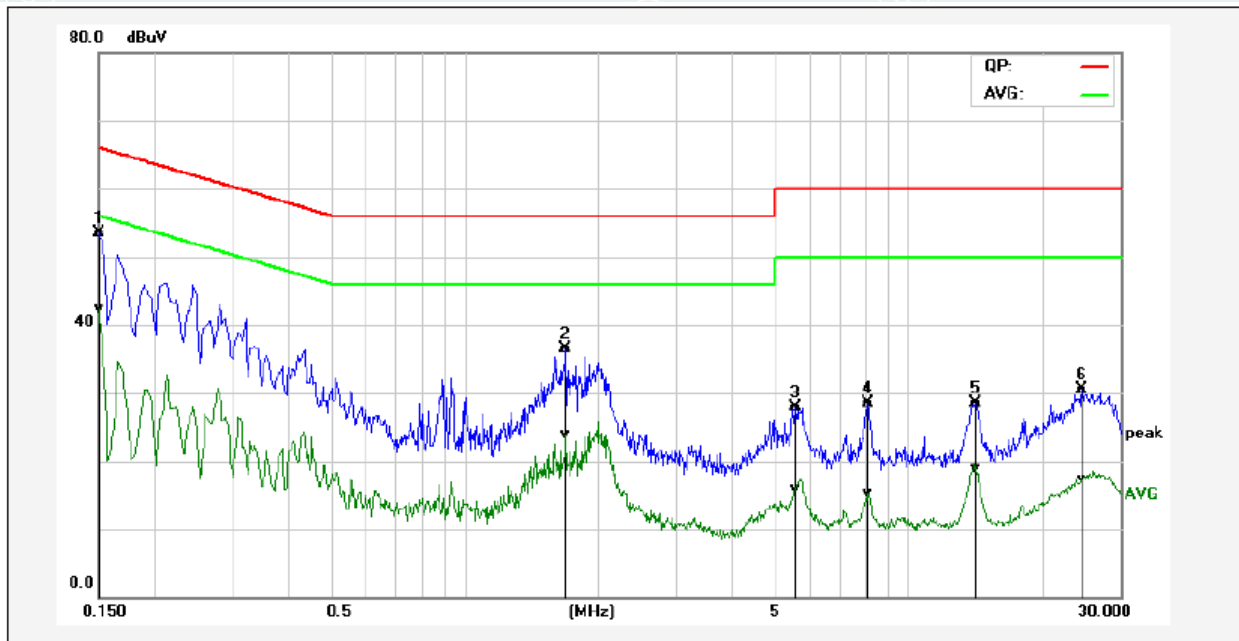
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	40.35	24.54	9.61	49.96	34.15	65.99	56.00	-16.03	-21.85	Pass
2	0.2660	34.01	15.76	9.61	43.62	25.37	61.24	51.24	-17.62	-25.87	Pass
3	0.9420	21.78	6.68	9.63	31.41	16.31	56.00	46.00	-24.59	-29.69	Pass
4	1.6220	20.94	7.34	9.65	30.59	16.99	56.00	46.00	-25.41	-29.01	Pass
5	8.1020	18.10	6.57	9.75	27.85	16.32	60.00	50.00	-32.15	-33.68	Pass
6	14.1380	20.55	10.28	9.80	30.35	20.08	60.00	50.00	-29.65	-29.92	Pass

**REMARKS:** L = Live Line

Adapter 1 (F12L33-120100SPAU)

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835GB
<b>Environmental Conditions</b>	22.7°C/51%RH	<b>Test Mode</b>	MODE 1
<b>Tested By</b>	Tang Shenghui	<b>Line</b>	N
<b>Tested Date</b>	2023-05-09	<b>Test Voltage</b>	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



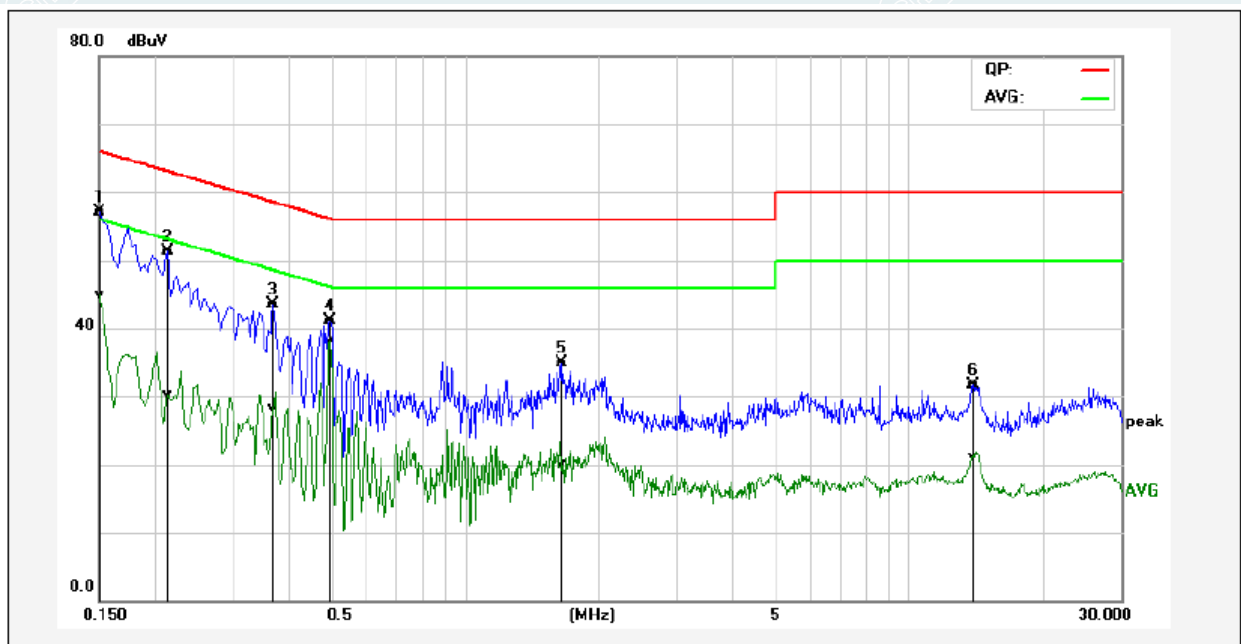
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	43.85	32.65	9.60	53.45	42.25	65.99	56.00	-12.54	-13.75	Pass
2	1.6940	26.86	14.30	9.64	36.50	23.94	56.00	46.00	-19.50	-22.06	Pass
3	5.5660	18.17	6.11	9.72	27.89	15.83	60.00	50.00	-32.11	-34.17	Pass
4	8.1380	18.72	5.50	9.76	28.48	15.26	60.00	50.00	-31.52	-34.74	Pass
5	14.1420	18.65	9.12	9.86	28.51	18.98	60.00	50.00	-31.49	-31.02	Pass
6	24.6540	20.36	7.29	10.07	30.43	17.36	60.00	50.00	-29.57	-32.64	Pass

**REMARKS:** N = Neutral Line.

Adapter 2 (SA12BV-120100U)

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835GB
<b>Environmental Conditions</b>	22.7°C/51%RH	<b>Test Mode</b>	MODE 1
<b>Tested By</b>	Tang Shenghui	<b>Line</b>	L
<b>Tested Date</b>	2023-05-09	<b>Test Voltage</b>	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



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	47.50	35.36	9.61	57.11	44.97	65.99	56.00	-8.88	-11.03	Pass
2	0.2140	41.68	20.73	9.61	51.29	30.34	63.04	53.05	-11.75	-22.71	Pass
3	0.3700	33.84	18.63	9.61	43.45	28.24	58.50	48.50	-15.05	-20.26	Pass
4*	0.4980	31.46	28.43	9.61	41.07	38.04	56.03	46.03	-14.96	-7.99	Pass
5	1.6620	25.17	10.46	9.65	34.82	20.11	56.00	46.00	-21.18	-25.89	Pass
6	13.9460	21.94	11.28	9.80	31.74	21.08	60.00	50.00	-28.26	-28.92	Pass

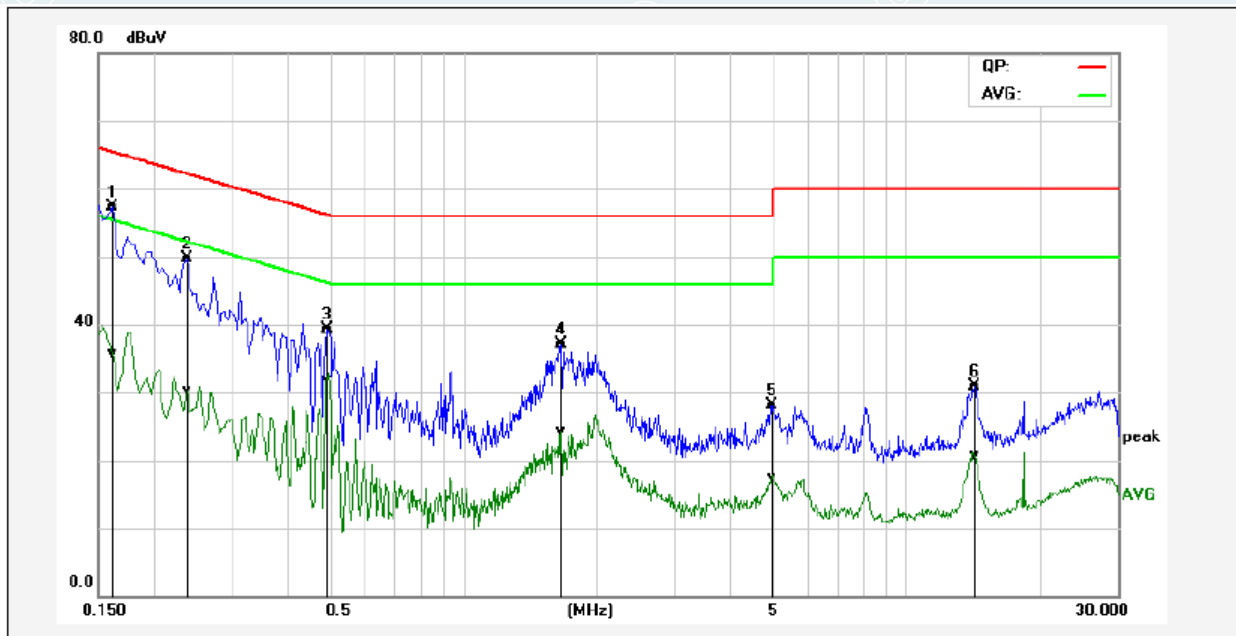
**REMARKS:** L = Live Line



Adapter 2 (SA12BV-120100U)

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835GB
<b>Environmental Conditions</b>	22.7°C/51%RH	<b>Test Mode</b>	MODE 1
<b>Tested By</b>	Tang Shenghui	<b>Line</b>	N
<b>Tested Date</b>	2023-05-09	<b>Test Voltage</b>	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



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*	0.1620	47.76	26.03	9.60	57.36	35.63	65.36	55.36	-8.00	-19.73	Pass
2	0.2380	40.10	20.80	9.60	49.70	30.40	62.16	52.17	-12.46	-21.77	Pass
3	0.4940	29.64	22.22	9.60	39.24	31.82	56.10	46.10	-16.86	-14.28	Pass
4	1.6700	27.46	14.57	9.64	37.10	24.21	56.00	46.00	-18.90	-21.79	Pass
5	4.9620	18.44	7.89	9.70	28.14	17.59	56.00	46.00	-27.86	-28.41	Pass
6	14.2260	21.10	10.88	9.86	30.96	20.74	60.00	50.00	-29.04	-29.26	Pass

**REMARKS:** N = Neutral Line.

## 6. RADIATED SPURIOUS EMISSIONS

### 6.1. LIMITS

In any 100kHz 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 100kHz 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 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak( $\mu\text{V}/\text{m}$ )	Measurement distance(m)	Quasi-peak( $\text{dB}\mu\text{V}/\text{m}$ )@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(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 9-90kHz and 110-490kHz 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 PeakLimit= $74+20*\log(3/1)=83.54$  (dB $\mu\text{V}/\text{m}$ ).  
The Avg Limit= $54+20*\log(3/1)=63.54$  (dB $\mu\text{V}/\text{m}$ ).

### 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 antenna is moved spherical over the EUT in different polarisations of the antenna.

**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 and Average detector.

--- 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. if the EUT duty cycle is  $< 98\%$ , set  $VBW \geq 1/T$ , Where T is defined in section 2.8.

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

### 6.3. TEST SETUP

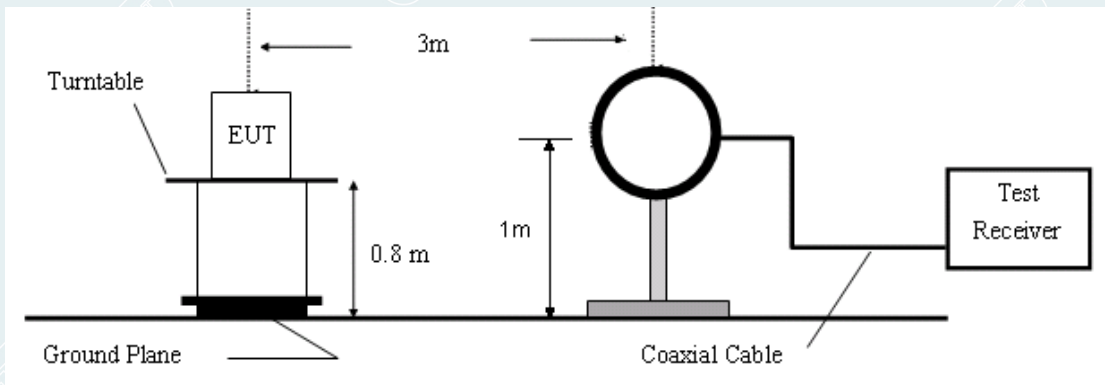


Figure 1. 9kHz to 30MHz radiated emissions test configuration

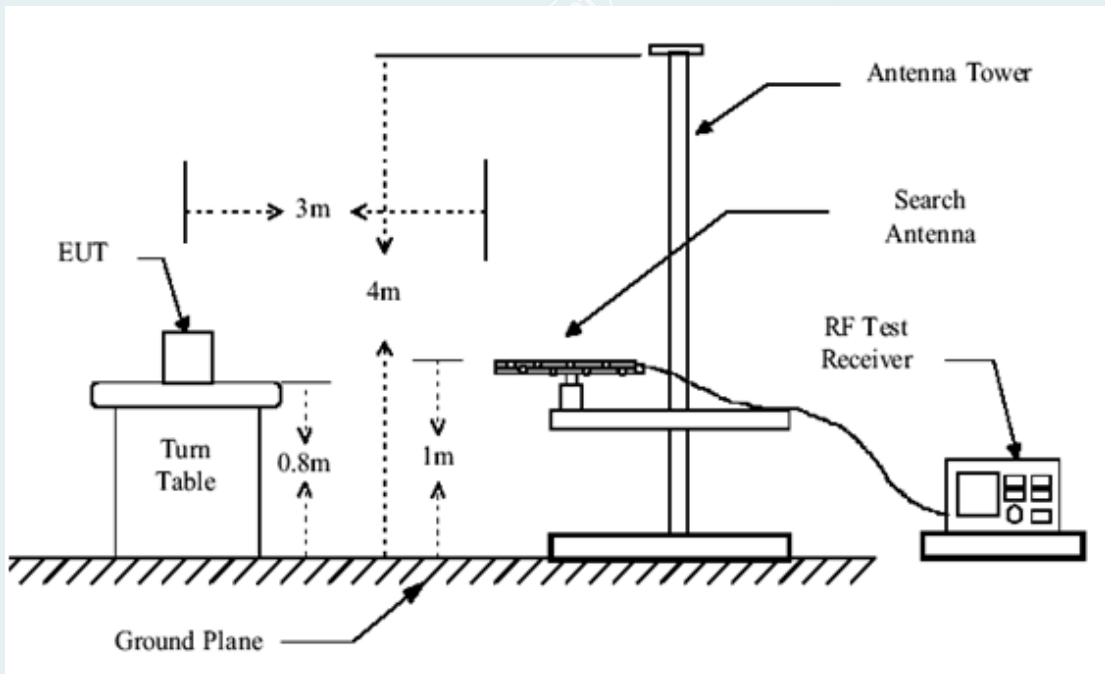


Figure 2. 30MHz to 1GHz radiated emissions test configuration

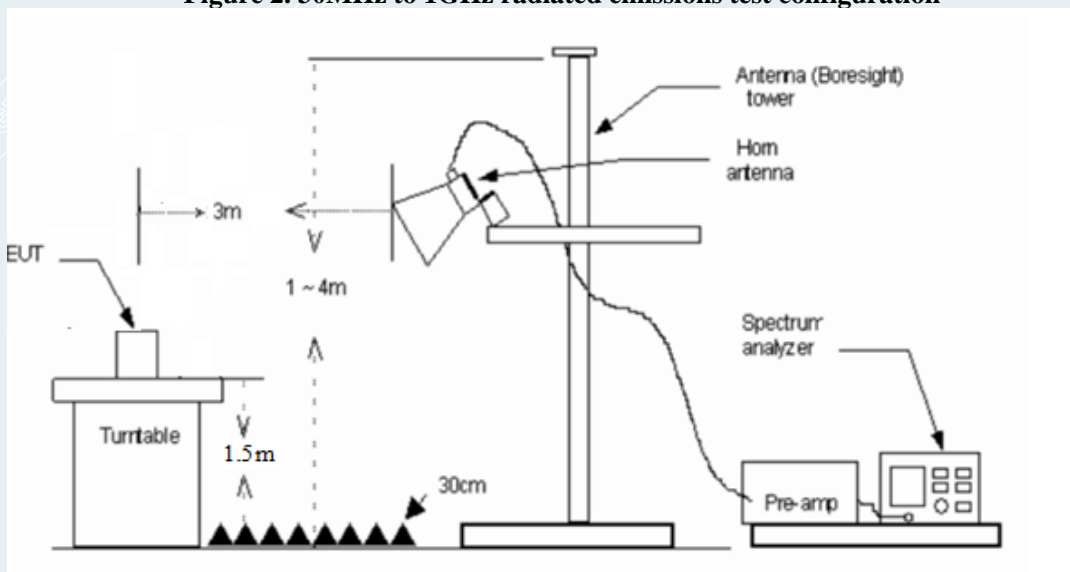


Figure 3. 1GH to 18GHz radiated emissions test configuration

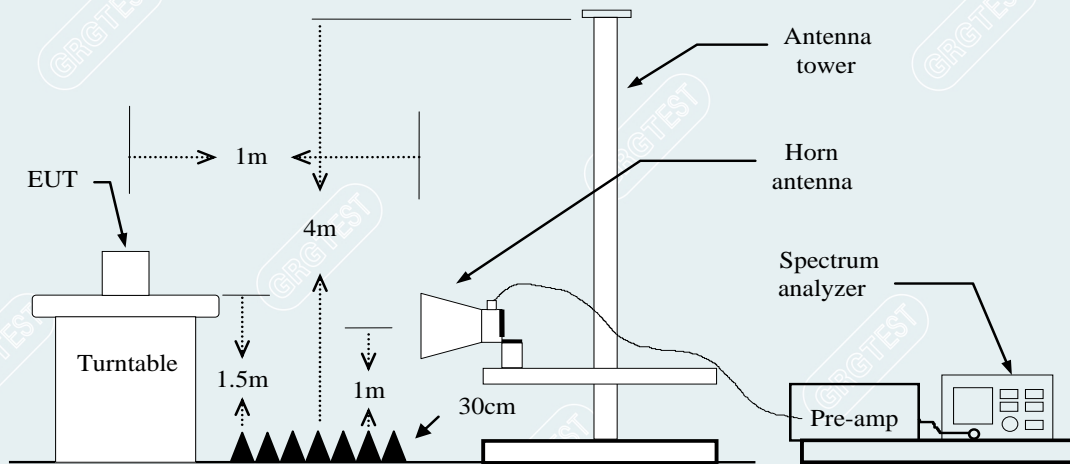


Figure 4. 18GHz to 26.5GHz radiated emissions test configuration

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

**1GHz-18GHz**

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/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 [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/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 (dBμV/m) = Uncorrected Analyzer / Receiver reading
- Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
- Level (dBμV/m) = Reading (dBμV/m) + Factor (dB/m)
- Limit (dBμV/m) = Limit stated in standard
- Margin (dB) = Limit (dBμV/m) – Level (dBμV/m)
- Polarity = Antenna polarization
- Peak = Peak Reading
- AVG = Average Reading

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

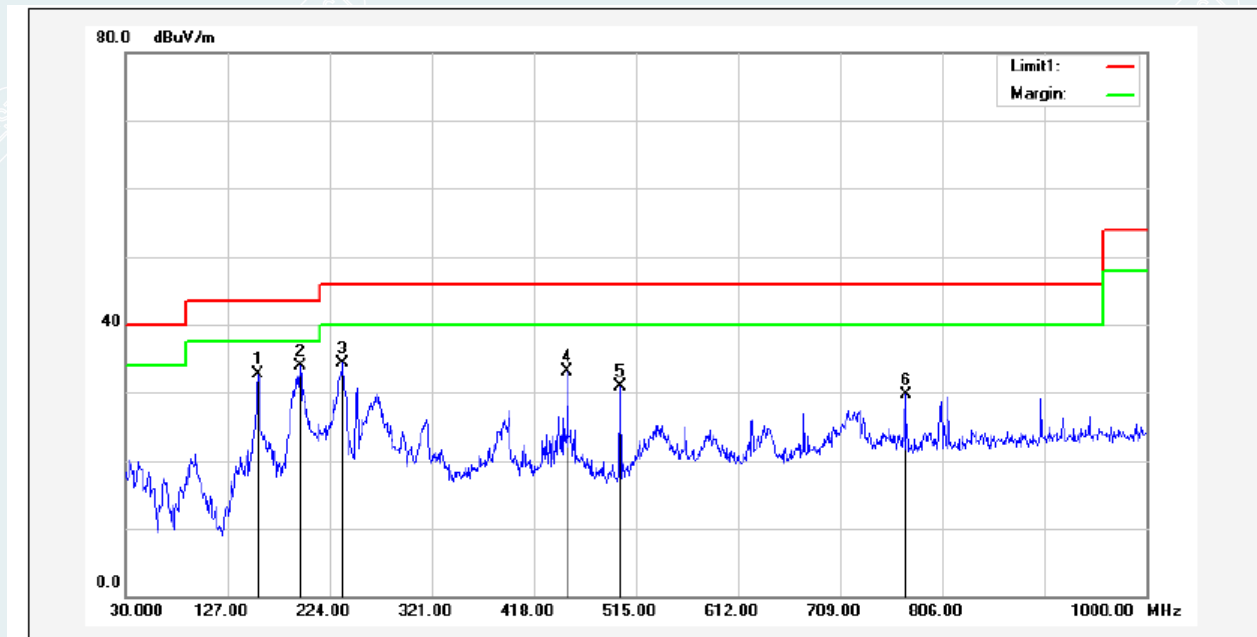


### 6.5. TEST RESULTS

#### Below 1GHz

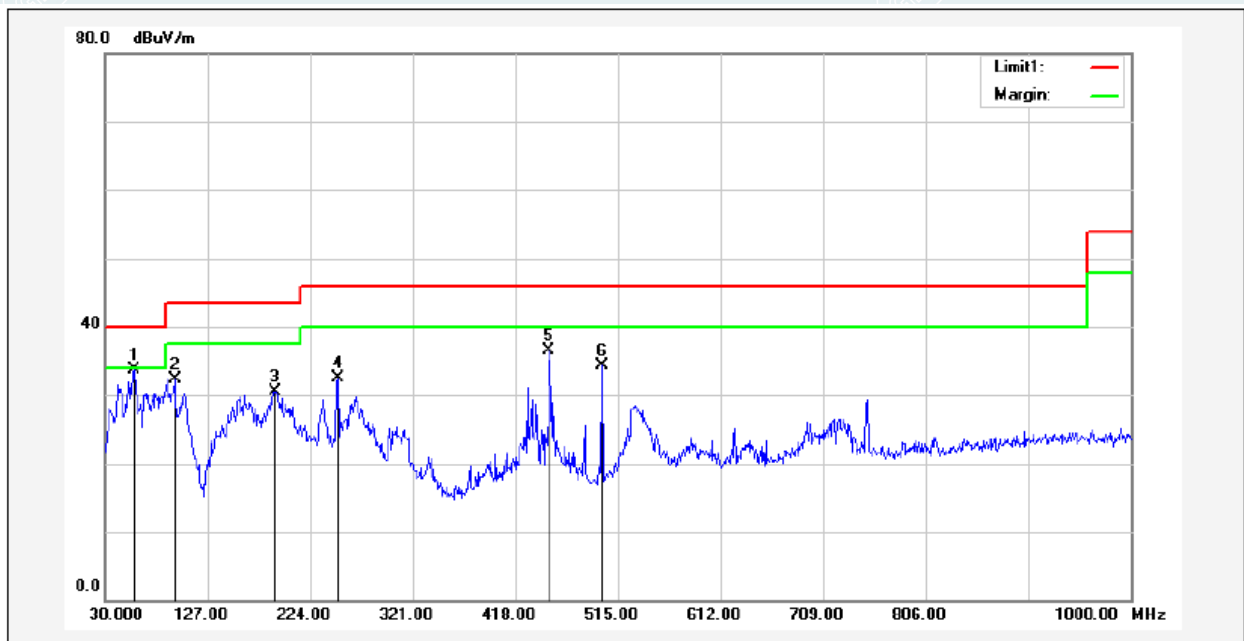
All models were pretested and only the worst modes and channels were recorded in this report. (IEEE 802.11n HT40 2422MHz)

<b>EUT Name</b>	AX1800 Dual Band WiFi6 CATV GPON Terminal	<b>Model</b>	NP1835GRF
<b>Environmental Conditions</b>	24.2°C/54%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Test Mode</b>	MODE 1	<b>Polarity</b>	Horizontal
<b>Tested By</b>	Tang Shenghui	<b>Tested Date</b>	2023-05-06
<b>Note</b>	Adapter1		



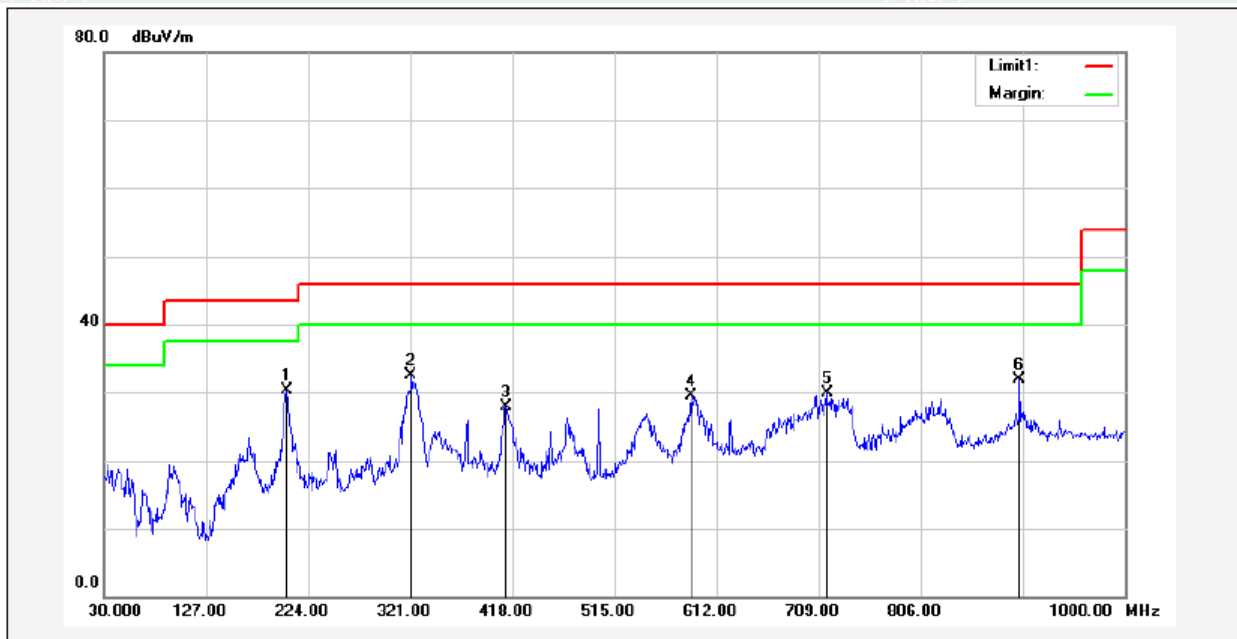
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	156.1000	59.82	-27.05	32.77	43.50	-10.73	356	200	QP
2*	195.8700	60.39	-26.57	33.82	43.50	-9.68	142	100	QP
3	236.6100	59.28	-24.93	34.35	46.00	-11.65	360	144	QP
4	450.0100	52.06	-18.99	33.07	46.00	-12.93	82	200	QP
5	500.4500	48.85	-17.92	30.93	46.00	-15.07	45	200	QP
6	771.0800	43.59	-13.89	29.70	46.00	-16.30	71	100	QP

<b>EUT Name</b>	AX1800 Dual Band WiFi6 CATV GPON Terminal	<b>Model</b>	NP1835GRF
<b>Environmental Conditions</b>	24.2°C/54%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Test Mode</b>	MODE 1	<b>Polarity</b>	Vertical
<b>Tested By</b>	Tang Shenghui	<b>Tested Date</b>	2023-05-06
<b>Note</b>	Adapter1		



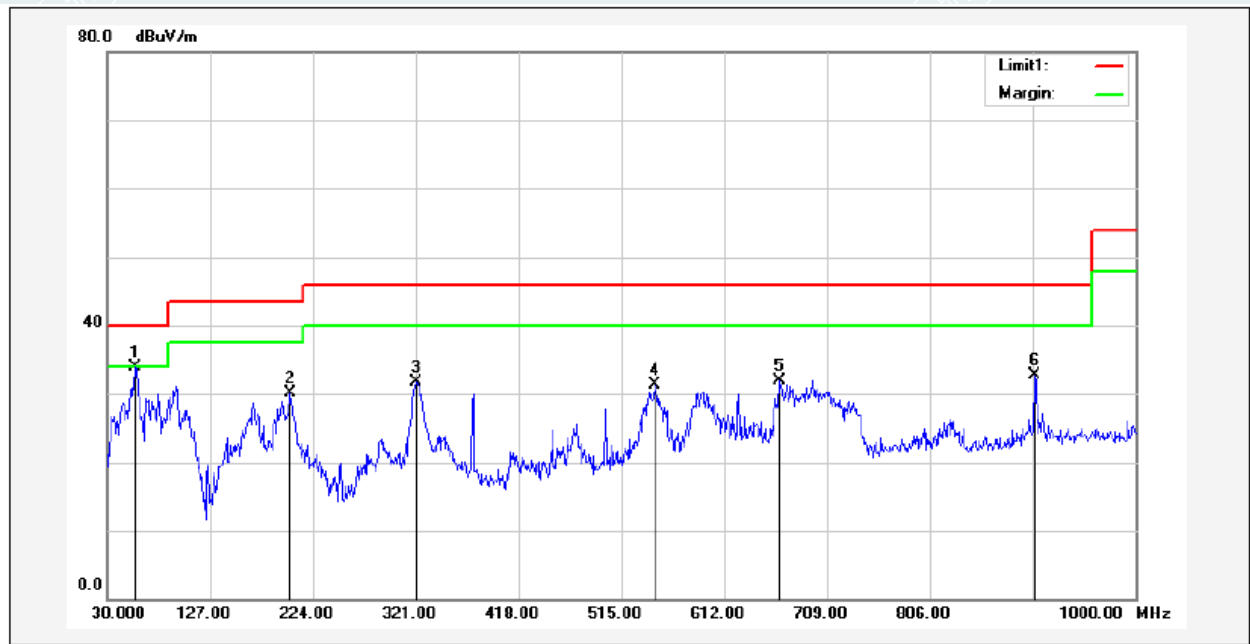
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	57.1600	61.86	-28.16	33.70	40.00	-6.30	344	100	QP
2	95.9600	61.40	-29.07	32.33	43.50	-11.17	101	100	QP
3	191.0200	57.45	-26.86	30.59	43.50	-12.91	8	100	QP
4	250.1900	56.87	-24.43	32.44	46.00	-13.56	105	100	QP
5	450.0100	55.45	-18.99	36.46	46.00	-9.54	173	100	QP
6	500.4500	52.22	-17.92	34.30	46.00	-11.70	235	100	QP

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835G
<b>Environmental Conditions</b>	24.2°C/54%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Test Mode</b>	MODE 1	<b>Polarity</b>	Horizontal
<b>Tested By</b>	Tang Shenghui	<b>Tested Date</b>	2023-05-06
<b>Note</b>	Adapter1		



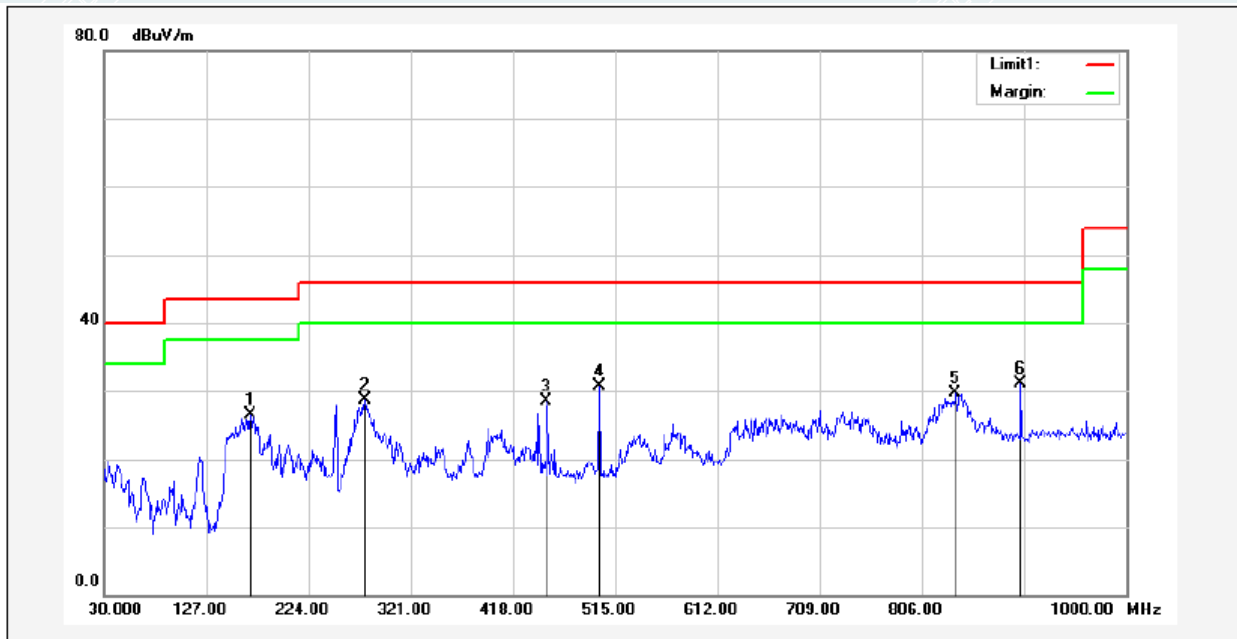
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	203.6300	56.54	-26.19	30.35	43.50	-13.15	1	100	QP
2	321.9700	55.30	-22.79	32.51	46.00	-13.49	77	100	QP
3	412.1800	47.51	-19.51	28.00	46.00	-18.00	360	109	QP
4	587.7500	45.68	-16.08	29.60	46.00	-16.40	360	155	QP
5	716.7600	44.17	-14.27	29.90	46.00	-16.10	124	100	QP
6	900.0900	44.71	-12.73	31.98	46.00	-14.02	104	100	QP

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835G
<b>Environmental Conditions</b>	24.2°C/54%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Test Mode</b>	MODE 1	<b>Polarity</b>	Vertical
<b>Tested By</b>	Tang Shenghui	<b>Tested Date</b>	2023-05-06
<b>Note</b>	Adapter1		



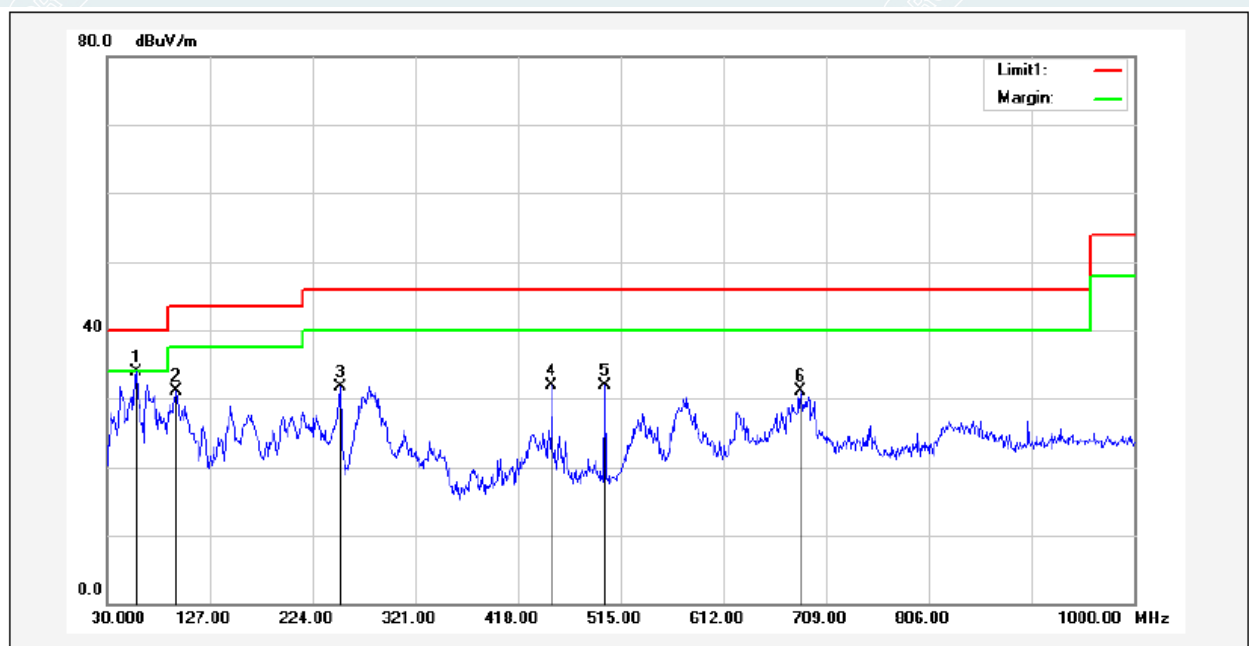
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	56.1900	61.85	-27.91	33.94	40.00	-6.06	360	129	QP
2	202.6600	56.29	-26.23	30.06	43.50	-13.44	113	200	QP
3	321.0000	54.52	-22.82	31.70	46.00	-14.30	197	200	QP
4	546.0400	47.64	-16.36	31.28	46.00	-14.72	146	100	QP
5	664.3800	47.09	-15.20	31.89	46.00	-14.11	43	100	QP
6	904.9400	45.45	-12.68	32.77	46.00	-13.23	152	200	QP

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835GB
<b>Environmental Conditions</b>	24.2°C/54%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Test Mode</b>	MODE 1	<b>Polarity</b>	Horizontal
<b>Tested By</b>	Tang Shenghui	<b>Tested Date</b>	2023-05-06
<b>Note</b>	Adapter1		



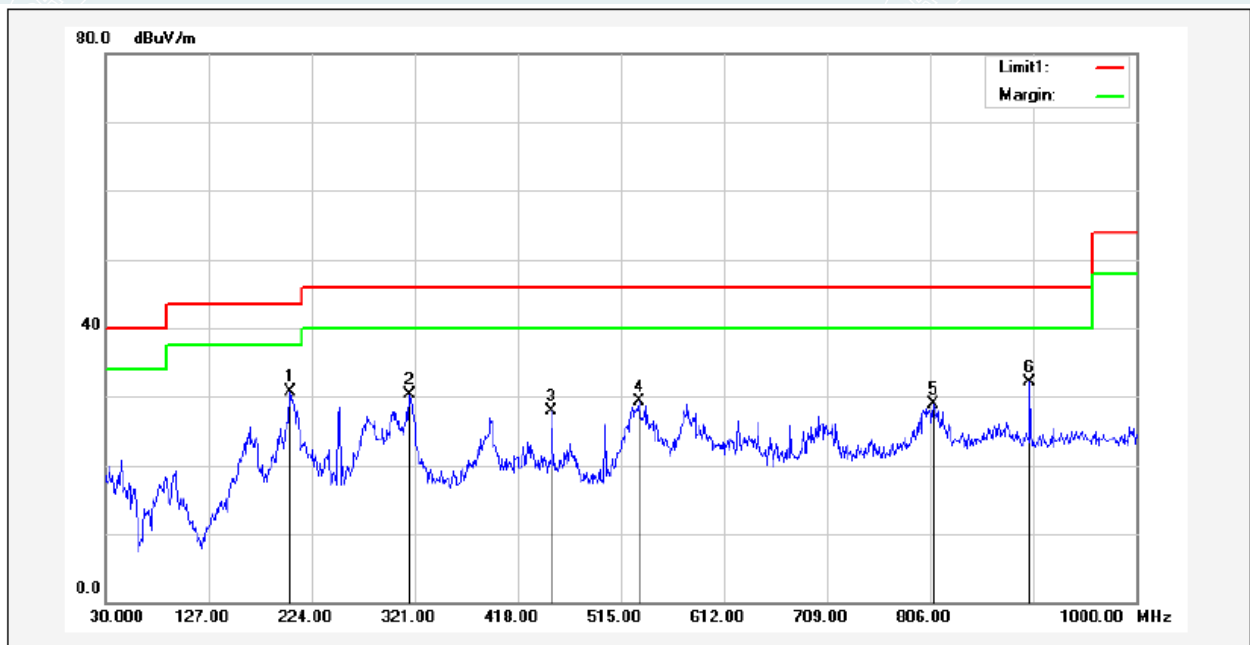
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	168.7100	53.81	-27.40	26.41	43.50	-17.09	158	200	QP
2	277.3500	52.63	-23.85	28.78	46.00	-17.22	58	100	QP
3	450.0100	47.40	-18.99	28.41	46.00	-17.59	96	200	QP
4	500.4500	48.56	-17.92	30.64	46.00	-15.36	277	200	QP
5	838.0100	43.06	-13.31	29.75	46.00	-16.25	257	100	QP
6*	900.0900	43.79	-12.73	31.06	46.00	-14.94	77	100	QP

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835GB
<b>Environmental Conditions</b>	24.2°C/54%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Test Mode</b>	MODE 1	<b>Polarity</b>	Vertical
<b>Tested By</b>	Tang Shenghui	<b>Tested Date</b>	2023-05-06
<b>Note</b>	Adapter1		



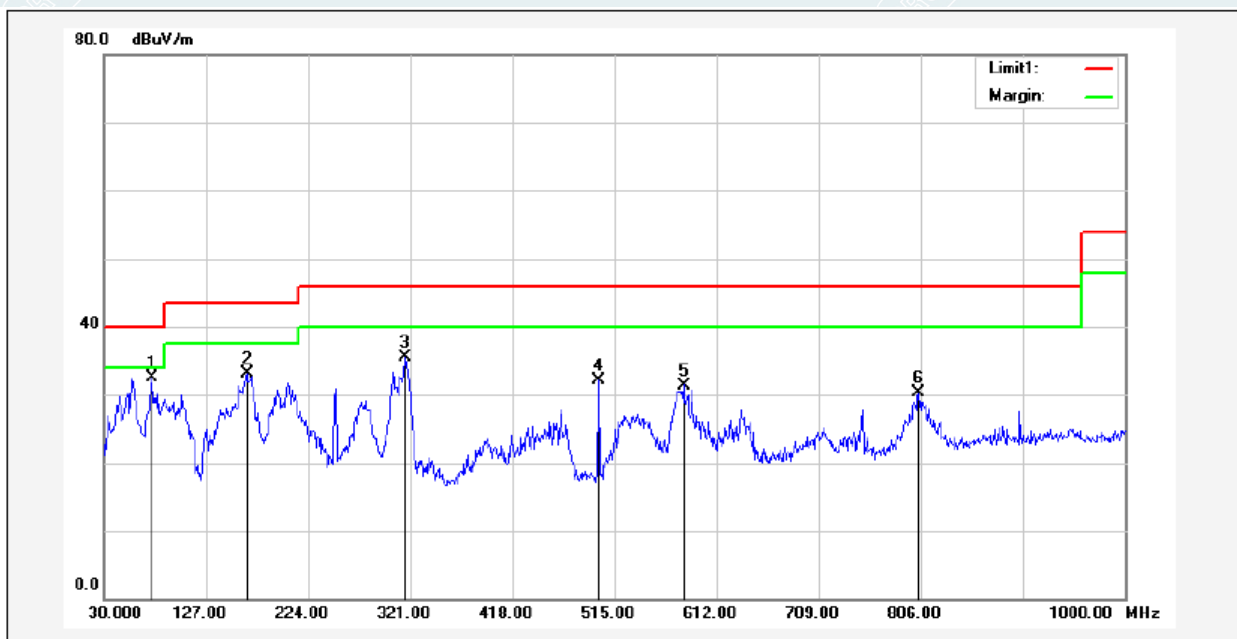
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	57.1600	61.97	-28.16	33.81	40.00	-6.19	360	105	QP
2	94.9900	60.30	-29.28	31.02	43.50	-12.48	232	200	QP
3	250.1900	56.22	-24.43	31.79	46.00	-14.21	339	100	QP
4	450.0100	50.87	-18.99	31.88	46.00	-14.12	230	200	QP
5	500.4500	49.75	-17.92	31.83	46.00	-14.17	360	178	QP
6	684.7500	45.85	-14.71	31.14	46.00	-14.86	110	100	QP

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835GB
<b>Environmental Conditions</b>	24.2°C/54%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Test Mode</b>	MODE 1	<b>Polarity</b>	Horizontal
<b>Tested By</b>	Tang Shenghui	<b>Tested Date</b>	2023-05-06
<b>Note</b>	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*	203.6300	56.98	-26.19	30.79	43.50	-12.71	35	200	QP
2	316.1500	53.24	-22.94	30.30	46.00	-15.70	78	100	QP
3	450.0100	46.93	-18.99	27.94	46.00	-18.06	97	200	QP
4	532.4600	46.06	-16.83	29.23	46.00	-16.77	187	200	QP
5	808.9100	42.52	-13.54	28.98	46.00	-17.02	360	128	QP
6	900.0900	44.81	-12.73	32.08	46.00	-13.92	119	100	QP

<b>EUT Name</b>	AX1800 Dual Band WiFi6 GPON Terminal	<b>Model</b>	NP1835GB
<b>Environmental Conditions</b>	24.2°C/54%RH	<b>Test Voltage</b>	AC 120V/60Hz
<b>Test Mode</b>	MODE 1	<b>Polarity</b>	Vertical
<b>Tested By</b>	Tang Shenghui	<b>Tested Date</b>	2023-05-06
<b>Note</b>	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*	75.5900	63.43	-31.02	32.41	40.00	-7.59	93	100	QP
2	165.8000	60.53	-27.38	33.15	43.50	-10.35	342	100	QP
3	316.1500	58.41	-22.94	35.47	46.00	-10.53	169	200	QP
4	500.4500	50.08	-17.92	32.16	46.00	-13.84	39	100	QP
5	580.9600	47.50	-16.10	31.40	46.00	-14.60	243	100	QP
6	804.0600	43.84	-13.57	30.27	46.00	-15.73	360	122	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.



**1GHz-18GHz:**

Mode: 802.11b(antenna 1)  
 Lowest Frequency (2412MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/60Hz  
 /

Suspected Data List									
NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1247.8	57.99	36.00	-21.99	74.00	38.00	200	171	Horizontal
2	2383.6	70.16	50.06	-20.10	74.00	23.94	100	173	Horizontal
3	4824	63.10	50.53	-12.57	74.00	23.47	100	321	Horizontal
4	8742	48.12	49.42	1.30	74.00	24.58	100	107	Horizontal
5	13485	42.91	49.85	6.94	74.00	24.15	100	351	Horizontal
6	17500.5	43.57	51.12	7.55	74.00	22.88	100	351	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dB $\mu$ V/m]	AV Value [dB $\mu$ V/m]	AV Limit [dB $\mu$ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.807	-20.10	67.43	47.33	54.00	6.67	134	194.6	Horizontal
2	4823.93	-12.57	63.25	50.68	54.00	3.32	114	303.9	Horizontal
3	8742	1.30	48.13	49.43	54.00	4.57	100	107	Horizontal
4	13485	6.94	41.31	48.25	54.00	5.75	100	351	Horizontal
5	17500.5	7.55	40.31	47.86	54.00	6.14	100	351	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1448.4	58.96	37.10	-21.86	74.00	36.90	200	80	Vertical
2	2250.8	65.41	46.20	-19.21	74.00	27.80	200	130	Vertical
3	2700	63.06	45.80	-17.26	74.00	28.20	200	100	Vertical
4	7234.5	53.07	50.53	-2.54	74.00	23.47	100	67	Vertical
5	9769.5	48.34	52.64	4.30	74.00	21.36	100	26	Vertical
6	13965	43.56	51.37	7.81	74.00	22.63	100	219	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dB $\mu$ V/m]	AV Value [dB $\mu$ V/m]	AV Limit [dB $\mu$ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7234.5	-2.54	49.13	46.59	54.00	7.41	100	67	Vertical
2	9769.5	4.30	42.31	46.61	54.00	7.39	100	26	Vertical
3	13965	7.81	39.31	47.12	54.00	6.88	100	219	Vertical

Mode: 802.11b(antenna 1)  
 Middle Frequency (2437 MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/60Hz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1240.4	58.78	36.49	-22.29	74.00	37.51	100	219	Horizontal
2	2436	67.66	48.00	-19.66	74.00	26.00	200	219	Horizontal
3	4873.5	62.07	50.26	-11.81	74.00	23.74	100	293	Horizontal
4	7282.5	51.16	48.13	-3.03	74.00	25.87	200	22	Horizontal
5	9855	48.59	53.02	4.43	74.00	20.98	200	205	Horizontal
6	13434	43.52	50.77	7.25	74.00	23.23	100	142	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dB $\mu$ V/m]	AV Value [dB $\mu$ V/m]	AV Limit [dB $\mu$ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7282.5	-3.03	47.31	44.28	54.00	9.72	200	22	Horizontal
2	9855	4.43	43.94	48.37	54.00	5.63	200	205	Horizontal
3	13434	7.25	40.56	47.81	54.00	6.19	100	142	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2436	63.05	43.60	-19.45	74.00	30.40	100	331	Vertical
2	2700.4	61.43	44.17	-17.26	74.00	29.83	200	107	Vertical
3	4873.5	56.76	44.94	-11.82	74.00	29.06	100	173	Vertical
4	7245	51.08	48.44	-2.64	74.00	25.56	200	275	Vertical
5	9826.5	47.01	51.33	4.32	74.00	22.67	100	296	Vertical
6	13809	43.92	51.14	7.22	74.00	22.86	100	10	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dB $\mu$ V/m]	AV Value [dB $\mu$ V/m]	AV Limit [dB $\mu$ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7245	-2.64	48.13	45.49	54.00	8.51	200	275	Vertical
2	9826.5	4.32	41.31	45.63	54.00	8.37	100	296	Vertical
3	13809	7.22	40.31	47.53	54.00	6.47	100	10	Vertical

Mode: 802.11b(antenna 1)  
 Highest Frequency (2462MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1893.4	59.85	38.74	-21.11	74.00	35.26	100	297	Horizontal
2	2461.2	67.43	48.10	-19.33	74.00	25.90	200	226	Horizontal
3	4923	61.03	49.79	-11.24	74.00	24.21	100	293	Horizontal
4	8188.5	50.33	49.34	-0.99	74.00	24.66	100	171	Horizontal
5	9312	48.06	50.28	2.22	74.00	23.72	100	242	Horizontal
6	13953	43.43	51.02	7.59	74.00	22.98	100	20	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	2461.271	-19.33	66.24	46.91	54.00	7.09	125	236.8	Horizontal
2	4923.997	-11.24	61.42	50.18	54.00	3.82	123	297	Horizontal
3	8188.5	-0.99	48.31	47.32	54.00	6.68	100	171	Horizontal
4	9312	2.22	45.76	47.98	54.00	6.02	100	242	Horizontal
5	13953	7.59	40.31	47.90	54.00	6.10	100	20	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	1368.4	57.63	35.82	-21.81	74.00	38.18	200	269	Vertical
2	2700.4	61.47	44.21	-17.26	74.00	29.79	200	96	Vertical
3	4924.5	57.07	46.06	-11.01	74.00	27.94	100	242	Vertical
4	6565.5	53.74	48.13	-5.61	74.00	25.87	100	30	Vertical
5	8139	49.49	49.57	0.08	74.00	24.43	100	192	Vertical
6	13572	44.47	51.46	6.99	74.00	22.54	100	292	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	6565.5	-5.61	46.32	40.71	54.00	13.29	100	30	Vertical
2	8139	0.08	44.31	44.39	54.00	9.61	100	192	Vertical
3	13572	6.99	41.89	48.88	54.00	5.12	100	292	Vertical

Mode: 802.11b(antenna 2)  
 Lowest Frequency (2412MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1239.2	58.95	36.61	-22.34	74.00	37.39	200	44	Horizontal
2	2368.8	65.99	45.82	-20.17	74.00	28.18	200	255	Horizontal
3	2996.2	60.57	43.41	-17.16	74.00	30.59	200	93	Horizontal
4	5056.5	54.51	43.38	-11.13	74.00	30.62	100	26	Horizontal
5	9921	48.36	51.93	3.57	74.00	22.07	200	66	Horizontal
6	14506.5	43.37	51.40	8.03	74.00	22.60	100	106	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	9921	3.57	41	44.57	54.00	9.43	200	66	Horizontal
2	14506.5	8.03	38	46.03	54.00	7.97	100	106	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	1431.8	58.65	36.91	-21.74	74.00	37.09	200	2	Vertical
2	2700	62.16	44.90	-17.26	74.00	29.10	200	92	Vertical
3	4443	54.84	40.88	-13.96	74.00	33.12	100	331	Vertical
4	5982	52.58	43.86	-8.72	74.00	30.14	100	220	Vertical
5	8179.5	49.67	49.36	-0.31	74.00	24.64	100	149	Vertical
6	13951.5	43.34	51.22	7.88	74.00	22.78	200	329	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	8179.5	-0.31	47	46.69	54.00	7.31	100	149	Vertical
2	13951.5	7.88	36	43.88	54.00	10.12	200	329	Vertical

Mode: 802.11b(antenna 2)  
 Middle Frequency (2437MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1724	60.00	37.15	-22.85	74.00	36.85	100	143	Horizontal
2	2435.2	64.71	45.04	-19.67	74.00	28.96	200	324	Horizontal
3	2996.2	60.57	43.41	-17.16	74.00	30.59	200	99	Horizontal
4	7204.5	51.18	48.05	-3.13	74.00	25.95	100	267	Horizontal
5	9877.5	47.44	51.63	4.19	74.00	22.37	200	65	Horizontal
6	14526	42.75	50.59	7.84	74.00	23.41	100	218	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	7204.5	-3.13	44.31	41.18	54.00	12.82	100	267	Horizontal
2	9877.5	4.19	41.89	46.08	54.00	7.92	200	65	Horizontal
3	14526	7.84	37.31	45.15	54.00	8.85	100	218	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	1431.8	58.01	36.27	-21.74	74.00	37.73	100	9	Vertical
2	2700.2	62.60	45.34	-17.26	74.00	28.66	200	90	Vertical
3	4570.5	54.38	41.17	-13.21	74.00	32.83	100	67	Vertical
4	6498	54.03	47.23	-6.80	74.00	26.77	100	56	Vertical
5	9793.5	47.23	51.66	4.43	74.00	22.34	100	137	Vertical
6	15103.5	43.36	51.55	8.19	74.00	22.45	100	25	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	9793.5	4.43	41.13	45.56	54.00	8.44	100	137	Vertical
2	15103.5	8.19	37.31	45.50	54.00	8.50	100	25	Vertical

Mode: 802.11b(antenna 2)  
 Highest Frequency (2462MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1227.6	58.97	36.16	-22.81	74.00	37.84	200	1	Horizontal
2	2461	64.40	45.07	-19.33	74.00	28.93	200	324	Horizontal
3	5056.5	54.76	43.63	-11.13	74.00	30.37	100	36	Horizontal
4	8031	50.28	49.48	-0.80	74.00	24.52	200	187	Horizontal
5	9865.5	47.49	51.81	4.32	74.00	22.19	100	36	Horizontal
6	13587	43.99	51.10	7.11	74.00	22.90	100	300	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	8031	-0.80	44.37	43.57	54.00	10.43	200	187	Horizontal
2	9865.5	4.32	41.32	45.64	54.00	8.36	100	36	Horizontal
3	13587	7.11	36.29	43.40	54.00	10.60	100	300	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	1433.4	58.60	36.85	-21.75	74.00	37.15	100	152	Vertical
2	2700.2	62.02	44.76	-17.26	74.00	29.24	100	80	Vertical
3	4923	59.47	48.48	-10.99	74.00	25.52	100	268	Vertical
4	7242	51.59	48.98	-2.61	74.00	25.02	100	197	Vertical
5	9775.5	46.53	50.86	4.33	74.00	23.14	200	106	Vertical
6	13858.5	42.76	50.71	7.95	74.00	23.29	200	136	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	7242	-2.61	47.31	44.70	54.00	9.30	100	197	Vertical
2	9775.5	4.33	41.32	45.65	54.00	8.35	200	106	Vertical
3	13858.5	7.95	39.21	47.16	54.00	6.84	200	136	Vertical

Mode: IEEE 802.11g(antenna 1)  
 Lowest Frequency (2412MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	2371.5	77.56	57.40	-20.16	74.00	16.60	200	167	Horizontal
2	2925	71.53	53.80	-17.73	74.00	20.20	200	97	Horizontal
3	4826.25	57.42	44.84	-12.58	74.00	29.16	100	302	Horizontal
4	7867.5	51.20	49.34	-1.86	74.00	24.66	200	163	Horizontal
5	9862.5	48.20	52.55	4.35	74.00	21.45	200	302	Horizontal
6	14495.625	44.58	52.67	8.09	74.00	21.33	200	293	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	2371.6025	-20.16	59.97	39.81	54.00	14.19	200	240	Horizontal
2	7867.5	-1.86	48.26	46.40	54.00	7.60	200	163	Horizontal
3	9862.5	4.35	44.36	48.71	54.00	5.29	200	302	Horizontal
4	14495.625	8.09	40.21	48.30	54.00	5.70	200	293	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	2383.75	69.95	51.08	-18.87	74.00	22.92	100	315	Vertical
2	2869	68.35	50.46	-17.89	74.00	23.54	200	97	Vertical
3	4980	56.02	44.88	-11.14	74.00	29.12	200	115	Vertical
4	9283.125	50.56	52.44	1.88	74.00	21.56	200	145	Vertical
5	13850.625	44.53	52.48	7.95	74.00	21.52	200	16	Vertical
6	17555.625	45.57	53.62	8.05	74.00	20.38	200	233	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	2383.2672	-18.87	53.38	34.51	54.00	19.49	100	320.5	Vertical
2	2880.044	-17.89	49.29	31.40	54.00	22.60	200	87.6	Vertical
3	9283.125	1.88	46.21	48.09	54.00	5.91	200	145	Vertical
4	13850.625	7.95	40.35	48.30	54.00	5.70	200	16	Vertical
5	17555.625	8.05	42.72	50.77	54.00	3.23	200	233	Vertical

Mode: IEEE 802.11g(antenna 1)  
 Middle Frequency (2437MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1244.2	58.48	36.34	-22.14	74.00	37.66	100	36	Horizontal
2	2383.2	69.05	48.95	-20.10	74.00	25.05	100	179	Horizontal
3	2496	69.27	50.55	-18.72	74.00	23.45	200	232	Horizontal
4	2988.4	60.64	43.46	-17.18	74.00	30.54	100	97	Horizontal
5	9811.5	48.21	52.53	4.32	74.00	21.47	200	192	Horizontal
6	16920	47.98	53.83	5.85	74.00	20.17	200	325	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	2373.129	-20.10	57.00	36.90	54.00	17.10	109	224	Horizontal
2	2498.817	-18.72	58.34	39.62	54.00	14.38	157	251	Horizontal
3	9811.5	4.32	40.31	44.63	54.00	9.37	200	192	Horizontal
4	16920	5.85	38.31	44.16	54.00	9.84	200	325	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	1726.8	61.83	40.26	-21.57	74.00	33.74	100	15	Vertical
2	2700.4	62.43	45.17	-17.26	74.00	28.83	200	77	Vertical
3	6498	55.01	48.21	-6.80	74.00	25.79	100	27	Vertical
4	9691.5	51.12	54.03	2.91	74.00	19.97	100	48	Vertical
5	15097.5	44.74	53.06	8.32	74.00	20.94	200	78	Vertical
6	17496	46.30	54.93	8.63	74.00	19.07	200	252	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	9691.5	2.91	45.32	48.23	54.00	5.77	100	48	Vertical
2	15097.5	8.32	39.21	47.53	54.00	6.47	200	78	Vertical
3	17496	8.63	38.61	47.24	54.00	6.76	200	252	Vertical



Mode: IEEE 802.11g(antenna 1)  
 Highest Frequency (2462MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1296.4	58.35	35.65	-22.70	74.00	38.35	100	283	Horizontal
2	2496.4	77.76	59.04	-18.72	74.00	14.96	100	220	Horizontal
3	5187	55.10	43.84	-11.26	74.00	30.16	100	168	Horizontal
4	7291.5	50.86	47.93	-2.93	74.00	26.07	200	120	Horizontal
5	9901.5	47.73	51.64	3.91	74.00	22.36	100	187	Horizontal
6	17511	43.40	50.87	7.47	74.00	23.13	200	281	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	2496.219	-18.72	60.49	41.77	54.00	12.23	114	217.5	Horizontal
2	7291.5	-2.93	40.13	37.20	54.00	16.80	200	120	Horizontal
3	9901.5	3.91	43.21	47.12	54.00	6.88	100	187	Horizontal
4	17511	7.47	42.13	49.60	54.00	4.40	200	281	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	1406	59.04	37.48	-21.56	74.00	36.52	200	80	Vertical
2	2495.8	68.60	49.04	-19.56	74.00	24.96	100	90	Vertical
3	2700.2	62.36	45.10	-17.26	74.00	28.90	200	100	Vertical
4	7248	51.24	48.57	-2.67	74.00	25.43	200	168	Vertical
5	9793.5	47.48	51.91	4.43	74.00	22.09	100	25	Vertical
6	13899	44.25	52.26	8.01	74.00	21.74	100	350	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	2496.486	-19.56	51.77	32.21	54.00	21.79	120	48.9	Vertical
2	7248	-2.67	49.31	46.64	54.00	7.36	200	168	Vertical
3	9793.5	4.43	40.16	44.59	54.00	9.41	100	25	Vertical
4	13899	8.01	40.13	48.14	54.00	5.86	100	350	Vertical

Mode: IEEE 802.11g(antenna 2)  
 Lowest Frequency (2412MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1307	58.06	35.23	-22.83	74.00	38.77	200	178	Horizontal
2	2375.4	70.11	49.97	-20.14	74.00	24.03	200	272	Horizontal
3	2986.6	61.44	44.25	-17.19	74.00	29.75	100	128	Horizontal
4	5760	52.62	42.88	-9.74	74.00	31.12	200	345	Horizontal
5	8761.5	48.03	49.24	1.21	74.00	24.76	200	80	Horizontal
6	13903.5	43.16	50.68	7.52	74.00	23.32	100	40	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	2373.028	-20.14	58.50	38.36	54.00	15.64	194	297.8	Horizontal
2	8761.5	1.21	46	47.21	54.00	6.79	200	80	Horizontal
3	13903.5	7.52	38	45.52	54.00	8.48	100	40	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	1117.4	58.33	35.49	-22.84	74.00	38.51	200	106	Vertical
2	2700.2	63.18	45.92	-17.26	74.00	28.08	200	95	Vertical
3	3627	55.85	40.28	-15.57	74.00	33.72	100	90	Vertical
4	7237.5	51.69	49.13	-2.56	74.00	24.87	200	31	Vertical
5	9753	48.15	52.35	4.20	74.00	21.65	100	294	Vertical
6	13855.5	43.77	51.71	7.94	74.00	22.29	200	323	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	7237.5	-2.56	48.13	45.57	54.00	8.43	200	31	Vertical
2	9753	4.20	41.13	45.33	54.00	8.67	100	294	Vertical
3	13855.5	7.94	40.11	48.05	54.00	5.95	200	323	Vertical

Mode: IEEE 802.11g(antenna 2)  
 Middle Frequency (2437MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1273.8	59.77	37.46	-22.31	74.00	36.54	200	1	Horizontal
2	2364.6	69.06	48.86	-20.20	74.00	25.14	200	273	Horizontal
3	5052	54.77	43.64	-11.13	74.00	30.36	100	352	Horizontal
4	8566.5	49.50	49.16	-0.34	74.00	24.84	100	300	Horizontal
5	9967.5	48.09	51.23	3.14	74.00	22.77	100	269	Horizontal
6	13953	43.22	50.81	7.59	74.00	23.19	100	67	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	2373.087	-20.20	58.13	37.93	54.00	16.07	165	292.3	Horizontal
2	8566.5	-0.34	49.86	49.52	54.00	4.48	100	300	Horizontal
3	9967.5	3.14	43.11	46.25	54.00	7.75	100	269	Horizontal
4	13953	7.59	40	47.59	54.00	6.41	100	67	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	1452	58.74	36.81	-21.93	74.00	37.19	100	142	Vertical
2	2700	62.38	45.12	-17.26	74.00	28.88	200	100	Vertical
3	3150	59.71	42.78	-16.93	74.00	31.22	200	108	Vertical
4	6369	52.37	45.27	-7.10	74.00	28.73	200	240	Vertical
5	9768	46.69	50.98	4.29	74.00	23.02	200	250	Vertical
6	13858.5	43.01	50.96	7.95	74.00	23.04	100	67	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	9768	4.29	48.43	52.72	54.00	1.28	200	250	Vertical
2	13858.5	7.95	40.31	48.26	54.00	5.74	100	67	Vertical

Mode: IEEE 802.11g(antenna 2)  
 Highest Frequency (2462MHz)  
 Environment: 20.5°C/70%RH  
 Tested By: Zhang Qiang

Date: 2023-04-21  
 Voltage: AC 120V/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	1243.6	58.69	36.53	-22.16	74.00	37.47	100	344	Horizontal
2	2348.4	67.36	47.13	-20.23	74.00	26.87	200	264	Horizontal
3	2507.4	65.25	46.62	-18.63	74.00	27.38	200	314	Horizontal
4	7113	51.72	47.94	-3.78	74.00	26.06	200	14	Horizontal
5	9973.5	48.48	51.64	3.16	74.00	22.36	100	352	Horizontal
6	13965	44.40	51.97	7.57	74.00	22.03	200	318	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	9973.5	3.16	40.13	43.29	54.00	10.71	100	352	Horizontal
2	13965	7.57	40.13	47.70	54.00	6.30	200	318	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	2250	62.59	43.37	-19.22	74.00	30.63	100	71	Vertical
2	2700.2	62.10	44.84	-17.26	74.00	29.16	200	91	Vertical
3	4924.5	54.63	43.62	-11.01	74.00	30.38	200	351	Vertical
4	5955	52.63	44.20	-8.43	74.00	29.80	100	170	Vertical
5	9784.5	47.72	52.10	4.38	74.00	21.90	200	239	Vertical
6	13854	43.82	51.76	7.94	74.00	22.24	100	68	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	9784.5	4.38	41.32	45.70	54.00	8.30	200	239	Vertical
2	13854	7.94	40.42	48.36	54.00	5.64	100	68	Vertical