

## TEST REPORT

**Product** : BE5100 Dual-Band Wi-Fi 7 Router(2.5GE)  
**Trade mark** : Tenda  
**Model/Type reference** : RE6L Pro,TE6L Pro  
**Serial Number** : N/A  
**Report Number** : EED32Q81740303  
**Date of Issue** : Dec. 09, 2024  
**Test Standards** : ETSI EN 300 440 V2.2.1 (2018-07)  
**Test result** : PASS

Prepared for:

**SHENZHEN TENDA TECHNOLOGY CO., LTD.**  
**6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,**  
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Prepared by:

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Date:

Dec. 09, 2024

Check No.:2551301024



1 Version

Version No.	Date	Description
00	Dec. 09, 2024	Original

## 2 Test Summary

Harmonised Standard ETSI EN 300 440 V2.2.1 (2018-07)				
Test item	Test Requirement	Test Method	Limit	Result
Transmitter requirements				
e.i.r.p.	Clause 4.2.2	Clause 4.2.2.3	Clause 4.2.2.4 & Annex B Table B.1	PASS
Permitted range of operating frequencies	Clause 4.2.3	Clause 4.2.3.3	Clause 4.2.3.5	PASS
Unwanted emissions in the spurious domain	Clause 4.2.4	Clause 4.2.4.3	Clause 4.2.4.4	PASS
Duty Cycle	Clause 4.2.5	Clause 4.2.5.3	Clause 4.2.5.4	N/A <sup>1</sup>
Additional requirements for FHSS equipment	Clause 4.2.6	Clause 4.2.6.3	Clause 4.2.6.4	N/A <sup>2</sup>
Receiver requirements				
Adjacent channel selectivity	Clause 4.3.3	Clause 4.3.3.3	Clause 4.3.3.4	PASS
Blocking or desensitization	Clause 4.3.4	Clause 4.3.4.3	Clause 4.3.4.4	PASS
Spurious radiation	Clause 4.3.5	Clause 4.3.5.3	Clause 4.3.5.4	PASS
Spectrum access techniques				
Spectrum access techniques	Clause 4.4	Clause 4.4	Clause 4.4	N/A <sup>4</sup>
GBSAR systems				
GBSAR antenna pattern	Clause 4.6.4	Clause I.5.1	Clause I.5.3	N/A <sup>5</sup>
Limits for GBSAR	Clause 4.6	Clause 4.6	Clause 4.6	N/A <sup>5</sup>

Remark:

N/A<sup>1</sup>: Transmitting devices which do not use LBT,DAA,or RFID transmitters operating in the 2446MHz to 2454MHz band transmitting more than 500mW e.i.r.p. power level.In this whole report not application;

N/A<sup>2</sup>: Equipment utilizing FHSS modulation.In this whole report not application;

N/A<sup>3</sup>: Applies to equipment Category 1 receivers.In this whole report not application;

N/A<sup>4</sup>: Equipment which are not using duty cycle restrictions for media access.In this whole report not application;

N/A<sup>5</sup>: Applies only GBSAR systems.In this whole report not application;

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

Model No.: RE6L Pro,TE6L Pro

Only the model RE6L Pro was tested,their electrical circuit design, layout, components used and internal wiring are identical, Only the Model is different.

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## 4 General Information

### 4.1 Client information

Applicant:	SHENZHEN TENDA TECHNOLOGY CO., LTD.
Address of Applicant:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Manufacturer:	SHENZHEN TENDA TECHNOLOGY CO., LTD.
Address of Manufacturer:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

### 4.2 General Description of EUT

Product Name:	BE5100 Dual-Band Wi-Fi 7 Router(2.5GE)	
Model No.(EUT):	RE6L Pro,TE6L Pro	
Test Mode No.:	RE6L Pro	
Trade mark:	Tenda	
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(HT20/HT40/HT80): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40/HE80): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM) IEEE 802.11be(EHT20/EHT40/EHT80): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM,4096QAM)	
Operating Frequency	5745-5825MHz	
Operating Temperature:	0℃ to +40℃	
Sample Type:	Fixed production	
Test Power Grade:	Default(manufacturer declare)	
Test Software of EUT:	QATool_Dbg.exe(manufacturer declare)	
Antenna Configuration	<input checked="" type="checkbox"/> Single Transmitting (1T1R); <input checked="" type="checkbox"/> MIMO ( <input type="checkbox"/> 2T2R, <input checked="" type="checkbox"/> 3T3R, <input type="checkbox"/> 4T4R, <input type="checkbox"/> Other );	
Antenna Type:	<input type="checkbox"/> Internal Antenna <input checked="" type="checkbox"/> PCB Antenna <input type="checkbox"/> Ceramic Antenna <input type="checkbox"/> External Antenna <input type="checkbox"/> Loop Antenna <input type="checkbox"/> Other:	
Antenna Gain:	5G CON3: 6.52dBi, 5G CON4: 6.52dBi, 5G CON5: 6.52dBi, Beamforming gain: 4.50dBi	
Power Supply:	Adapter 1:	Model:TEKA-TC120150EU Input:100-240V~50/60Hz,0.5A MAX Output:12.0V,1.5A,18.0W
	Adapter 2:	Model:TEKA-TC120150BS Input:100-240V~50/60Hz,0.5A MAX Output:12.0V,1.5A,18.0W
Test voltage:	DC 12.0V	

4.3 Other Information

RED Directive:	2014/53/EU
Sample Received Date:	Nov. 04, 2024
Sample tested Date:	Nov. 04, 2024 to Nov. 26, 2024

4.4 Test Environment

Environment Parameter	Selected Values During Tests		
Test condition	Ambient		
	Temperature(℃)	DC Voltage(V)	Humidity(%)
NT/NV	25	12.0	54
LT/HV	0	13.2	\
LT/LV	0	10.8	\
HT/HV	40	13.2	\
HT/LV	40	10.8	\

Note:

- 1) The EUT just work in such extreme temperature of 0℃~+40℃and the voltage of DC 10.8V to DC 13.2V, so here the EUT is tested in the temperature of 0℃~+40℃and the voltage of DC 10.8V to DC 13.2V.
- 2) NV: Normal Voltage NT: Normal Temperature  
LT: Low Extreme Test Temperature HT: High Extreme Test Temperature  
LV: Low Extreme Test Voltage HT: High Extreme Test Voltage

The worst case configurations, The worst case data was recorded in the report.  
SISO

Band	802.11 Mode	Data rate
5745MHz-5825MHz	a	6 Mbps
	n(HT20)	MCS0
	ac(VHT20)	MCS0
	ax(HE20)	MCS0
	be(EHT20)	MCS0
	n(HT40)	MCS0
	ac(VHT40)	MCS0
	ax(HE40)	MCS0
	be(EHT40)	MCS0
	ac(VHT80)	MCS0
	ax(HE80)	MCS0
	be(EHT80)	MCS0

2x2 MIMO

Band	802.11 Mode	Data rate
5745MHz-5825MHz	n(HT20)	MCS0
	ac(VHT20)	MCS0
	ax(HE20)	MCS0
	be(EHT20)	MCS0
	n(HT40)	MCS0
	ac(VHT40)	MCS0

	ax(HE40)	MCS0
	be(EHT40)	MCS0
	ac(VHT80)	MCS0
	ax(HE80)	MCS0
	be(EHT80)	MCS0

Operation Frequency each of channel

802.11a/802.11n/802.11ac/802.11ax/802.11be (20MHz) Frequency/Channel Operations:

Channel	Frequency(MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

802.11n/802.11ac/802.11ax/802.11be (40MHz) Frequency/Channel Operations:

Channel	Frequency(MHz)
151	5755
159	5795

802.11ac/802.11ax/802.11be (80MHz) Frequency/Channel Operations:

Channel	Frequency(MHz)
155	5775

## 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Asus	FL8700JP1065-0D8GXYQ2X10	FCC&CE	CTI



#### 4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax: +86 (0) 755 3368 3385

No tests were sub-contracted.

#### 4.7 Deviation from Standards

None.

#### 4.8 Abnormalities from Standard Conditions

None.

#### 4.9 Other Information Requested by the Customer

None.

#### 4.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio frequency	$7.9 \times 10^{-8}$
2	RF power (conducted)	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-25GHz)
3	Radiated Spurious emission	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Temperature test	0.64°C
5	Humidity test	3.8%
6	DC and low frequency voltages test	0.026%
7	AC and low frequency voltages test(< 10 kHz)	1.2%

## 5 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	06-26-2024	06-25-2025
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-02-2024	09-01-2025
Spectrum Analyzer	R&S	FSV40	101200	07-18-2024	07-17-2025
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-25-2024	06-24-2025
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-12-2023	12-10-2024
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	V2.0.0.0	---	---
Spectrum Analyzer	R&S	FSV3044	101509	01-17-2024	01-16-2025

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-29-2024	01-28-2025
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-23-2024	01-22-2025
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

## 6 Radio Technical Requirements Specification in EN 300 440

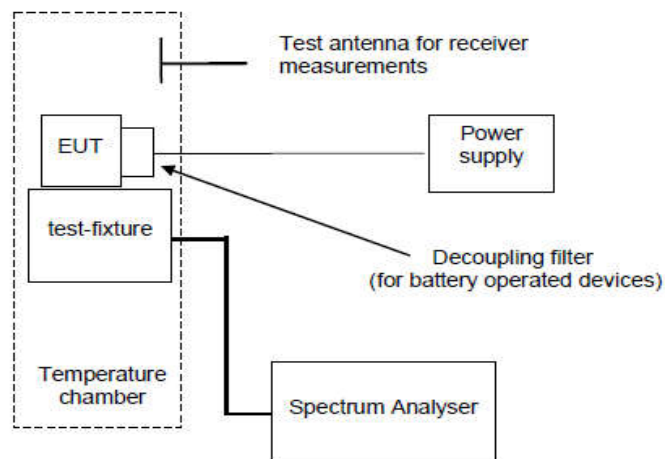
### 6.1 Transmitter requirements

#### 6.1.1 e.i.r.p. (Equivalent Isotropically Radiated Power)

**Test Requirement:** EN 300 440 Clause 4.2.2

**Equipment Used:** Refer to section 5 for details.

**Test Setup:**



**Limit:**  $\leq 25\text{mW}$  (Equal to 13.9794dBm)

**Test Status:** Keep the Tx operating with transmitter mode under normal and extreme test conditions.

**Test result:** PASS

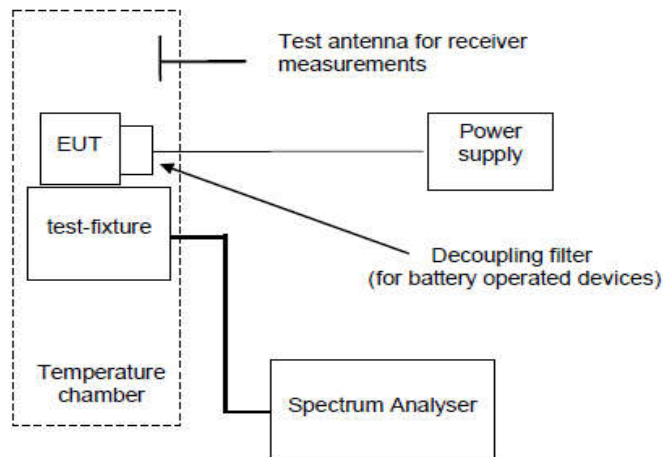
**Test data:** Refer to Appendix: 5G Wi-Fi Band 4

## 6.1.2 Permitted range of operating frequencies

**Test Requirement:** EN 300 440 Clause 4.2.3

**Equipment Used:** Refer to section 5 for details.

**Test Setup:**



**Limit:** 5725MHz to 5875MHz (-30dBm)

**Test Status:** Keep the Tx operating with transmitter mode under normal and extreme test conditions.

**Test result:** PASS

**Test data:** Refer to Appendix: 5G Wi-Fi Band 4



## 6.1.3 Unwanted emissions in the spurious domain

**Test Requirement:** EN 300 440 Clause 4.2.4

**Receiver Setup:**

Frequency range	Measuring receiver bandwidth	Detector mode
25MHz-1000MHz	120kHz	QP
1GHz-40GHz	1MHz	Peak

**Equipment Used:** Refer to section 5 for details.

**Test Setup:**

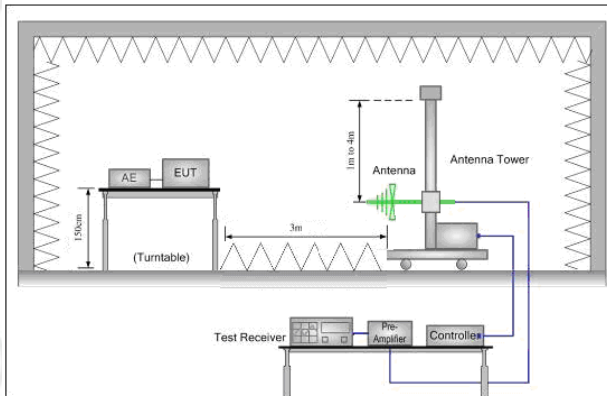


Figure 1. 25MHz to 1GHz

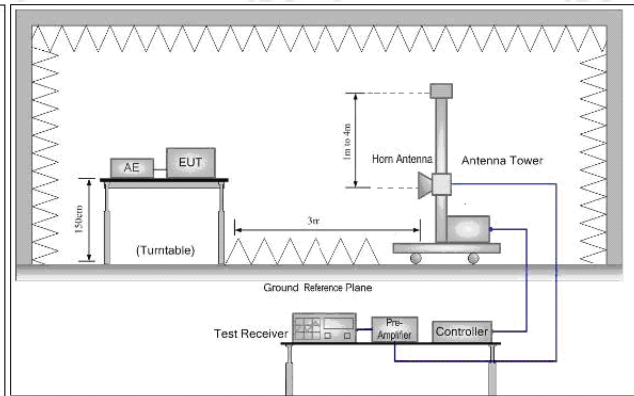


Figure 2. Above 1GHz

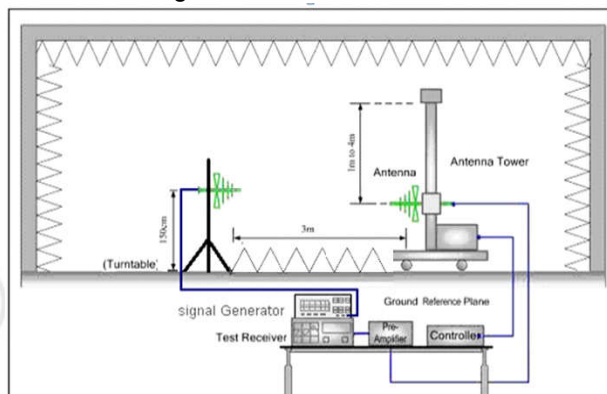


Figure 1. 25MHz to 1GHz

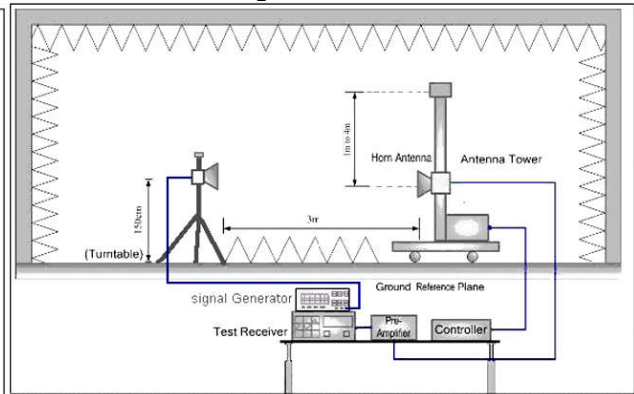


Figure 2. Above 1GHz

**Test Procedure:**

- 1 Scan from 25MHz to 40GHz; find the maximum radiation frequency to measure.
- 2 The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

- 1) The EUT was powered ON and placed on a 1.5m high table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. Modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The EUT was set 3 meters (above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 6) A signal at the disturbance was fed to the substitution antenna by means of a non-

radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.

- 7) The output power into the substitution antenna was then measured.
- 8) Steps 6) and 7) were repeated with both antennas polarized.
- 9) Calculate power in dBm by the following formula:

①For SISO:

$ERP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$

$EIRP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)}$

$EIRP=ERP+2.15dB$

②For MIMO:

$ERP(dBm)=Pg(dBm)-\text{cable loss(dB)}+\text{antenna gain(dBd)}+\text{Beamforming gain(dBd)}$

$EIRP(dBm)=Pg(dBm)-\text{cable loss(dB)}+\text{antenna gain(dBi)}+\text{Beamforming gain(dBd)}$

$EIRP=ERP+2.15dB$

Where: Pg is the generator output power into the substitution antenna.

- 10) Test the EUT in the lowest channel and the Highest channel

Repeat above procedures until all frequencies measured was complete.

**Limit:**

Frequency ranges	47MHz to 74MHz 87.5MHz to 108MHz 174MHz to 230MHz 470MHz to 862MHz	Other Frequencies ≤1000MHz	Frequencies >1000MHz
Operating	4nW (* -53.98dBm)	250nW (* -36.02dBm)	1μW (* -30.00dBm)
Standby	2nW (* -56.99dBm)	2nW (* -56.99dBm)	20nW (* -46.99dBm)

**Test Status:**

Keep the Tx operating with transmitter mode under normal test conditions.

**Test result:**

PASS

**Remark:**

Through Pre-scan, ANT1 and MIMO mode was the worst case and only the worst case data was recorded in the report.

**Standby mode test result:**

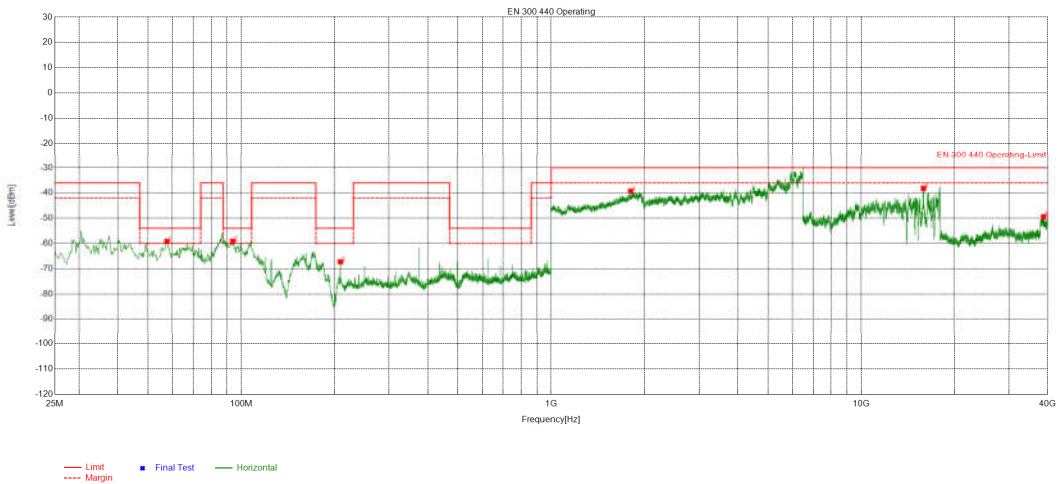
Not any spurious emissions have been observed.

Test Data:

ANT1:

Mode	802.11 a Transmitting	Remark	/
Band	\	Channel	5745MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

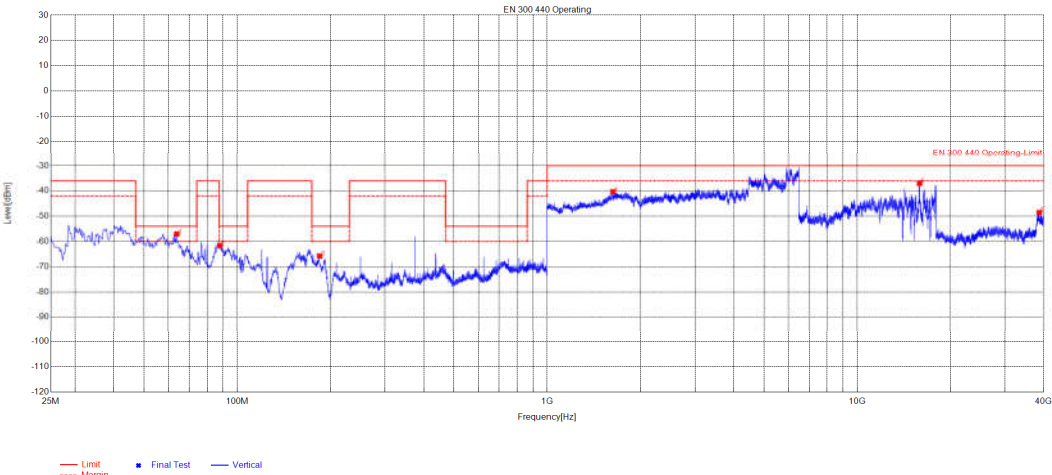


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.5715	150	360	-59.16	-54.00	5.16	PASS	Horizontal
2	93.8488	150	101	-59.10	-54.00	5.10	PASS	Horizontal
3	208.9218	150	128	-67.25	-54.00	13.25	PASS	Horizontal
4	1804.1804	150	22	-39.31	-30.00	9.31	PASS	Horizontal
5	15899.1933	150	20	-38.17	-30.00	8.17	PASS	Horizontal
6	38778.8779	150	269	-49.44	-30.00	19.44	PASS	Horizontal

Mode	802.11 a Transmitting	Remark	/
Band	\	Channel	5745MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

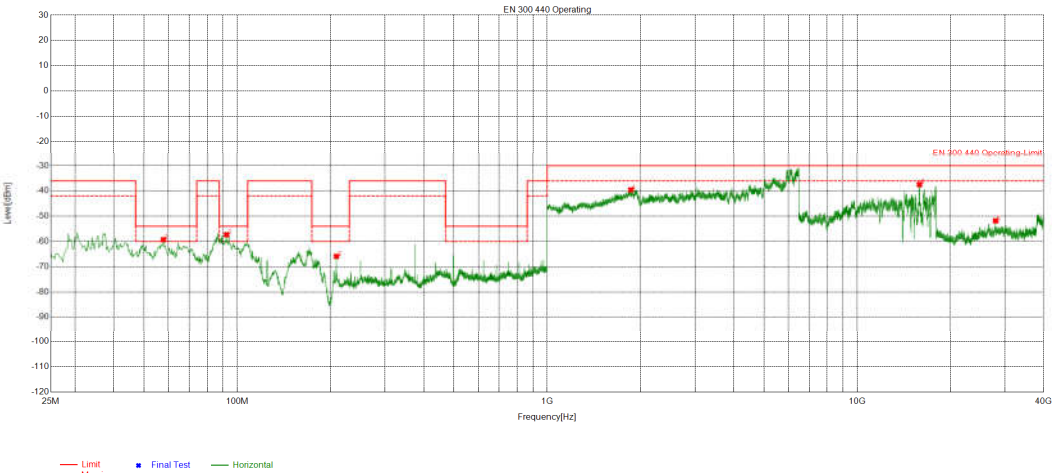


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	63.8128	150	260	-57.01	-54.00	3.01	PASS	Vertical
2	87.8026	150	3	-61.62	-54.00	7.62	PASS	Vertical
3	184.3469	150	109	-65.75	-54.00	11.75	PASS	Vertical
4	1629.2629	150	84	-40.30	-30.00	10.30	PASS	Vertical
5	15895.3597	150	0	-37.03	-30.00	7.03	PASS	Vertical
6	38699.67	150	119	-48.56	-30.00	18.56	PASS	Vertical

Mode	802.11 a Transmitting	Remark	/
Band	\	Channel	5825MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



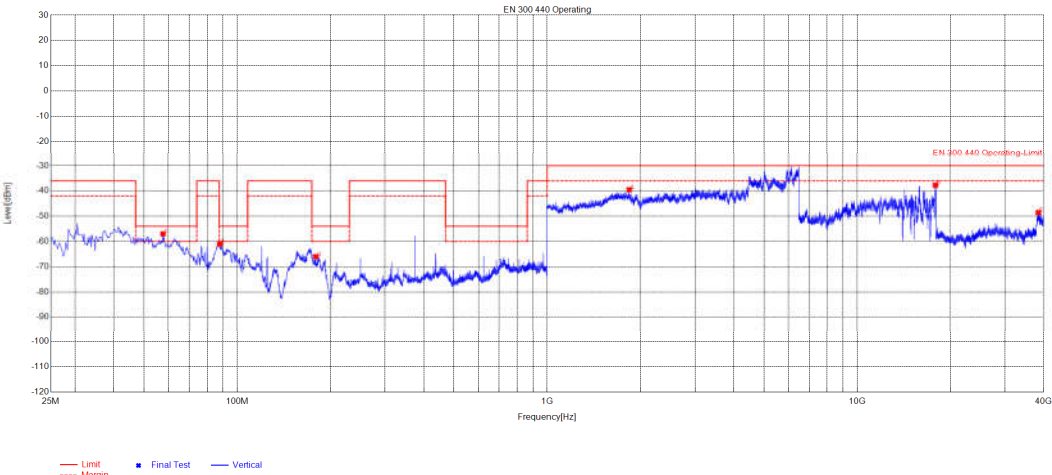
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.7666	150	3	-59.29	-54.00	5.29	PASS	Horizontal
2	92.2885	150	99	-57.31	-54.00	3.31	PASS	Horizontal
3	208.9218	150	99	-65.90	-54.00	11.90	PASS	Horizontal
4	1862.4862	150	196	-39.56	-30.00	9.56	PASS	Horizontal
5	15893.8263	150	28	-37.42	-30.00	7.42	PASS	Horizontal
6	27960.396	150	153	-51.83	-30.00	21.83	PASS	Horizontal



Mode	802.11 a Transmitting	Remark	/
Band	\	Channel	5825MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

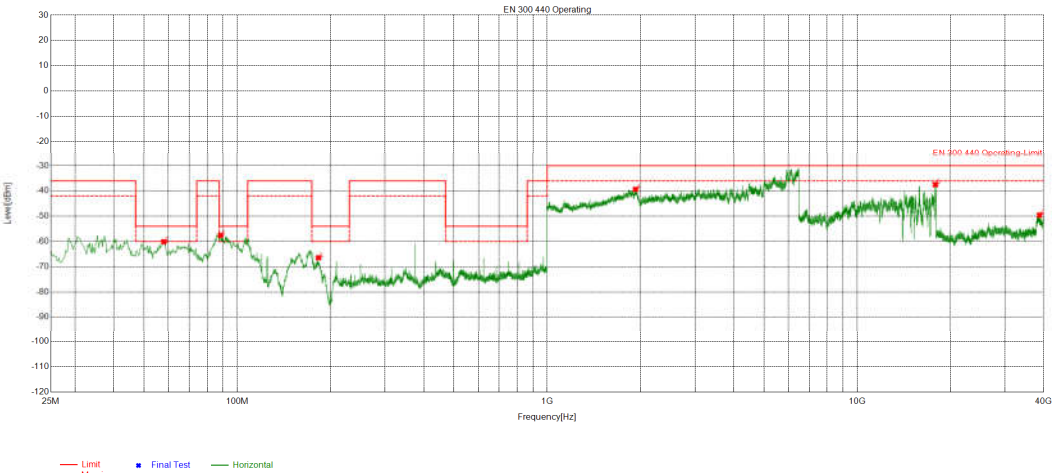


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.5715	150	40	-56.99	-54.00	2.99	PASS	Vertical
2	87.8026	150	359	-61.03	-54.00	7.03	PASS	Vertical
3	179.2759	150	21	-66.01	-54.00	12.01	PASS	Vertical
4	1839.934	150	3	-39.51	-30.00	9.51	PASS	Vertical
5	17892.6595	150	79	-37.72	-30.00	7.72	PASS	Vertical
6	38415.8416	150	100	-48.55	-30.00	18.55	PASS	Vertical

Mode	802.11 n(HT40) Transmitting	Remark	/
Band	\	Channel	5755MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

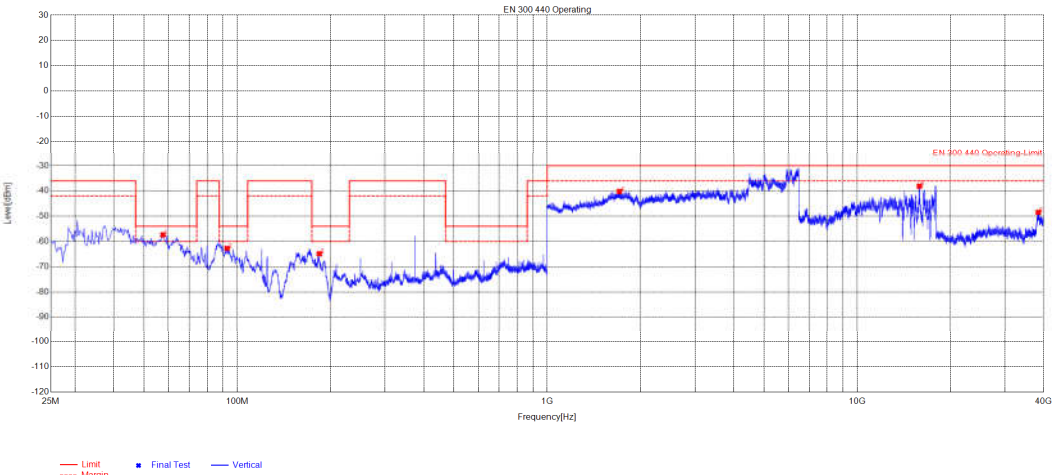


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.9616	150	48	-60.10	-54.00	6.10	PASS	Horizontal
2	88.3877	150	92	-57.53	-54.00	3.53	PASS	Horizontal
3	182.7866	150	84	-66.44	-54.00	12.44	PASS	Horizontal
4	1927.3927	150	3	-39.35	-30.00	9.35	PASS	Horizontal
5	17886.5258	150	172	-37.47	-30.00	7.47	PASS	Horizontal
6	38761.2761	150	84	-49.57	-30.00	19.57	PASS	Horizontal

Mode	802.11 n(HT40) Transmitting	Remark	/
Band	\	Channel	5755MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

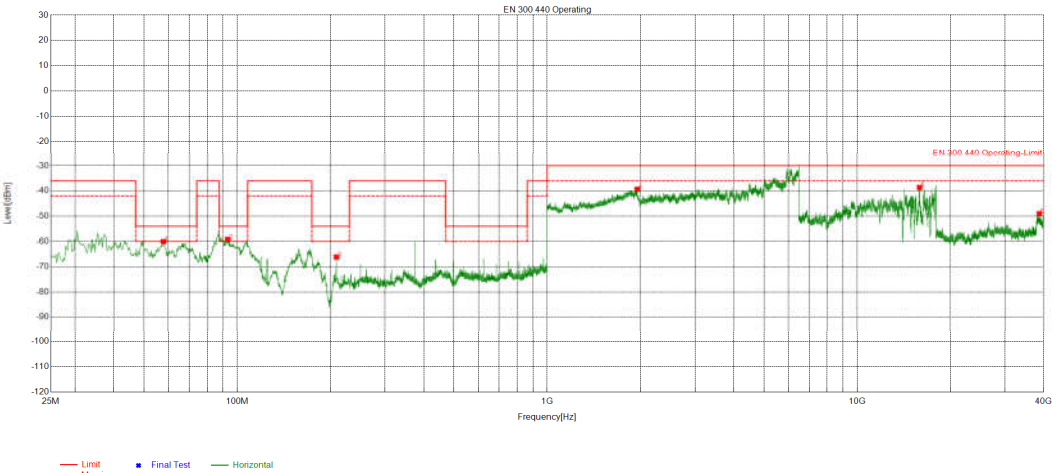


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.5715	150	3	-57.39	-54.00	3.39	PASS	Vertical
2	92.6785	150	39	-62.71	-54.00	8.71	PASS	Vertical
3	183.9568	150	119	-64.84	-54.00	10.84	PASS	Vertical
4	1710.121	150	21	-40.20	-30.00	10.20	PASS	Vertical
5	15887.6925	150	218	-38.07	-30.00	8.07	PASS	Vertical
6	38411.4411	150	360	-48.47	-30.00	18.47	PASS	Vertical

Mode	802.11 n(HT40) Transmitting	Remark	/
Band	\	Channel	5795MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

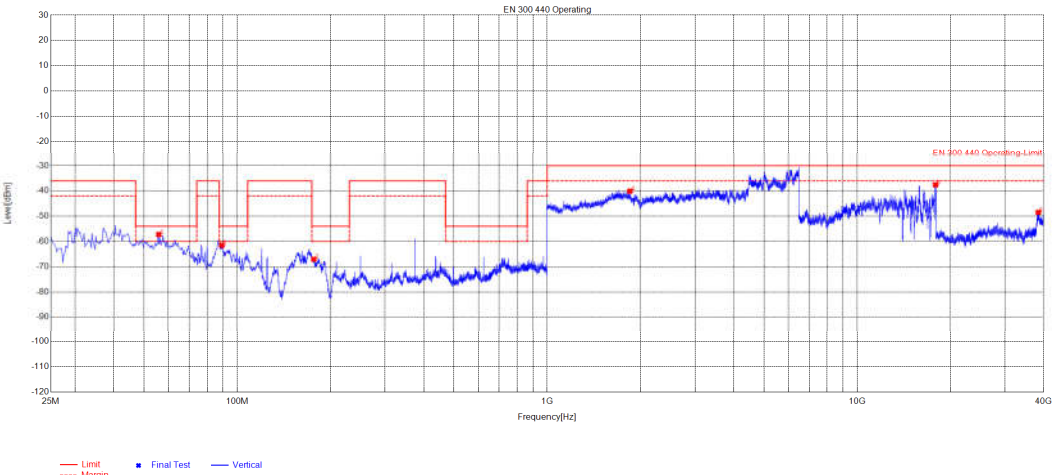


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.7666	150	3	-60.04	-54.00	6.04	PASS	Horizontal
2	93.0686	150	65	-59.17	-54.00	5.17	PASS	Horizontal
3	208.9218	150	109	-66.18	-54.00	12.18	PASS	Horizontal
4	1951.5952	150	241	-39.31	-30.00	9.31	PASS	Horizontal
5	15905.327	150	348	-38.60	-30.00	8.60	PASS	Horizontal
6	38732.6733	150	162	-49.00	-30.00	19.00	PASS	Horizontal

Mode	802.11 n(HT40) Transmitting	Remark	/
Band	\	Channel	5795MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



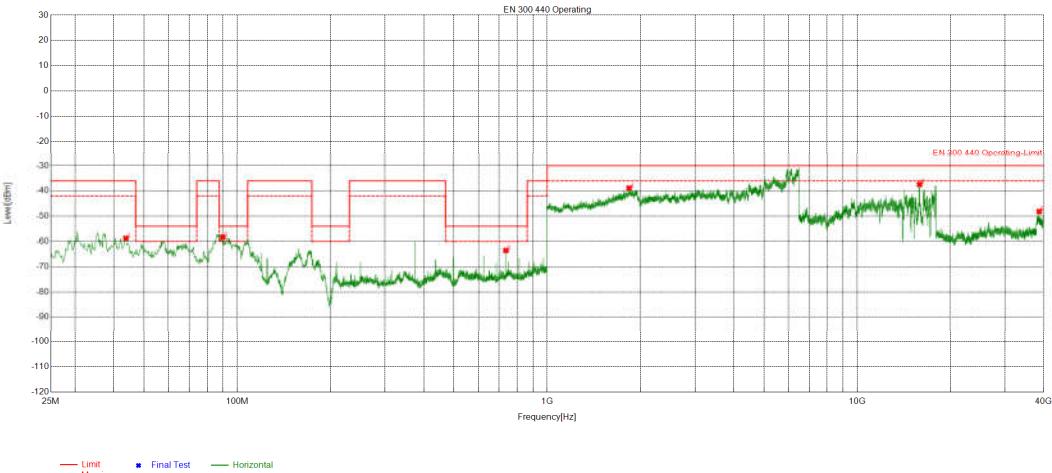
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	55.8162	150	22	-57.24	-54.00	3.24	PASS	Vertical
2	89.1678	150	3	-61.49	-54.00	7.49	PASS	Vertical
3	176.5453	150	3	-67.04	-54.00	13.04	PASS	Vertical
4	1849.2849	150	276	-40.05	-30.00	10.05	PASS	Vertical
5	17901.0934	150	172	-37.60	-30.00	7.60	PASS	Vertical
6	38420.242	150	127	-48.48	-30.00	18.48	PASS	Vertical



Mode	802.11 ac(VHT80) Transmitting	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

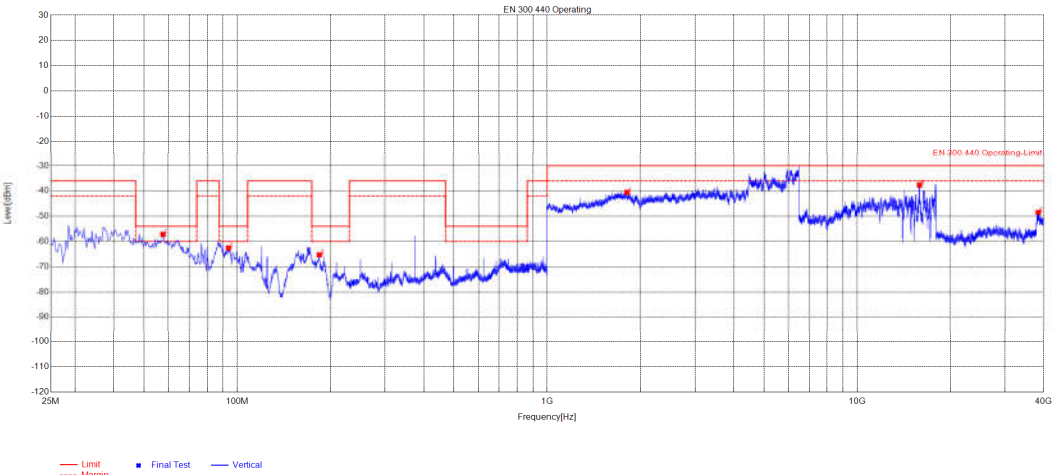


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.7237	150	19	-58.73	-36.00	22.73	PASS	Horizontal
2	89.753	150	81	-58.26	-54.00	4.26	PASS	Horizontal
3	735.5271	150	3	-63.55	-54.00	9.55	PASS	Horizontal
4	1837.1837	150	107	-38.88	-30.00	8.88	PASS	Horizontal
5	15901.4934	150	346	-37.40	-30.00	7.40	PASS	Horizontal
6	38677.6678	150	116	-48.13	-30.00	18.13	PASS	Horizontal

Mode	802.11 ac(VHT80) Transmitting	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

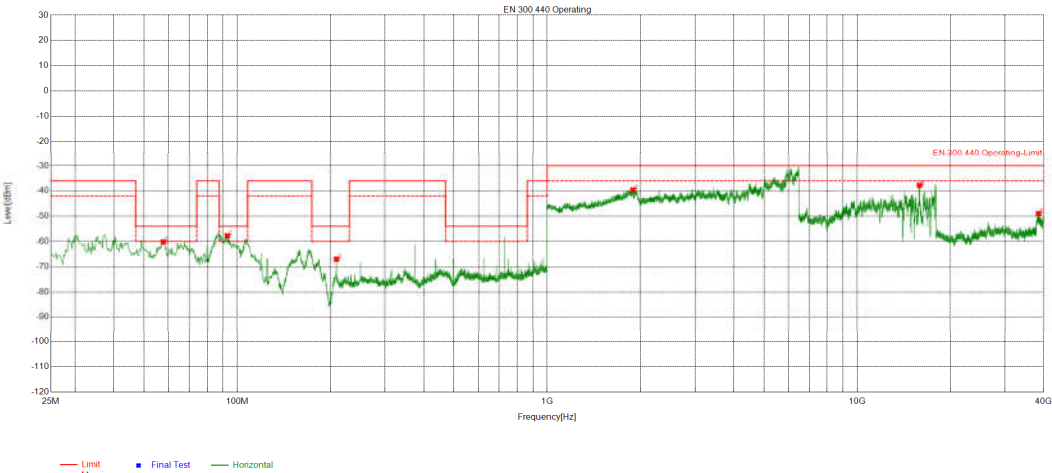


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.5715	150	278	-57.18	-54.00	3.18	PASS	Vertical
2	93.6537	150	3	-62.57	-54.00	8.57	PASS	Vertical
3	183.9568	150	116	-65.26	-54.00	11.26	PASS	Vertical
4	1808.0308	150	125	-40.52	-30.00	10.52	PASS	Vertical
5	15893.8263	150	40	-37.65	-30.00	7.65	PASS	Vertical
6	38402.6403	150	12	-48.50	-30.00	18.50	PASS	Vertical

Mode	802.11 be(EHT80)Transmittin	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

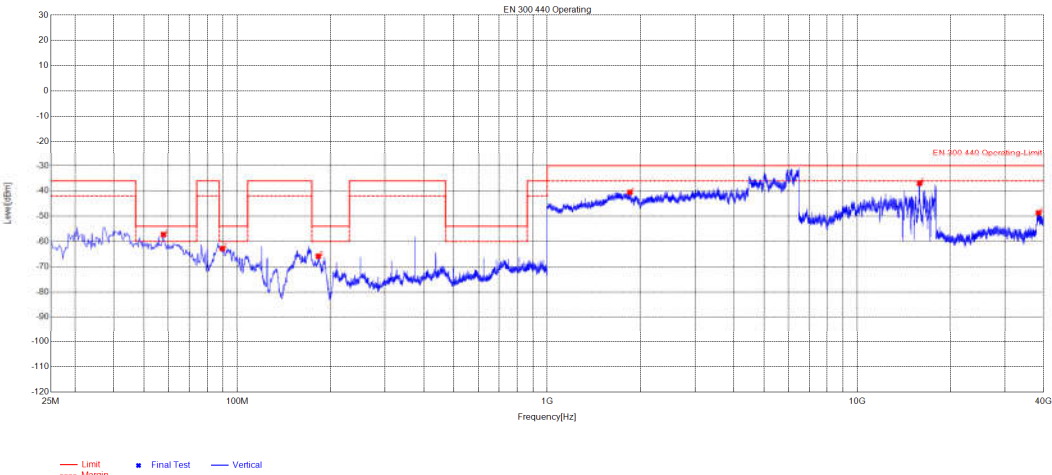


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.7666	150	13	-60.16	-54.00	6.16	PASS	Horizontal
2	92.8736	150	83	-57.76	-54.00	3.76	PASS	Horizontal
3	208.9218	150	118	-67.01	-54.00	13.01	PASS	Horizontal
4	1890.5391	150	13	-39.59	-30.00	9.59	PASS	Horizontal
5	15896.1264	150	337	-37.79	-30.00	7.79	PASS	Horizontal
6	38477.4477	150	13	-48.96	-30.00	18.96	PASS	Horizontal

Mode	802.11 be(EHT80)Transmittin	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



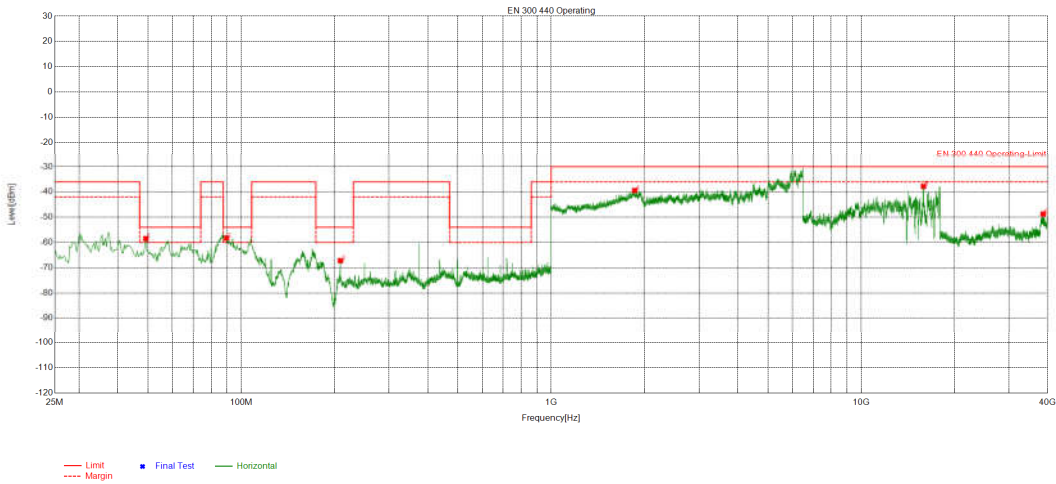
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.7666	150	32	-57.28	-54.00	3.28	PASS	Vertical
2	89.5579	150	21	-62.82	-54.00	8.82	PASS	Vertical
3	182.5915	150	243	-65.84	-54.00	11.84	PASS	Vertical
4	1847.6348	150	130	-40.54	-30.00	10.54	PASS	Vertical
5	15899.1933	150	326	-36.99	-30.00	6.99	PASS	Vertical
6	38462.0462	150	252	-48.69	-30.00	18.69	PASS	Vertical

MIMO:

Mode	802.11 n(HT20) Transmitting	Remark	/
Band	\	Channel	5745MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



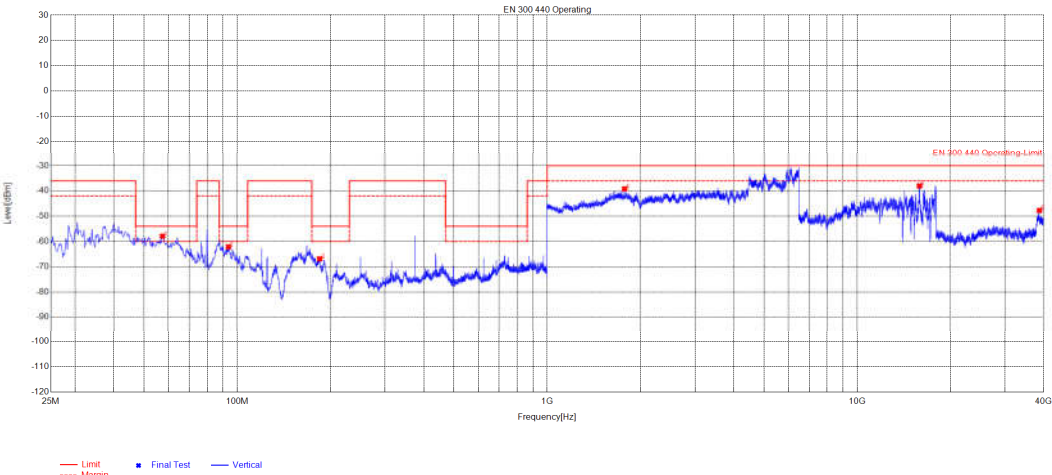
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	49.1848	150	21	-58.45	-54.00	4.45	PASS	Horizontal
2	89.5579	150	91	-58.21	-54.00	4.21	PASS	Horizontal
3	208.9218	150	118	-67.20	-54.00	13.20	PASS	Horizontal
4	1858.6359	150	220	-39.42	-30.00	9.42	PASS	Horizontal
5	15896.1264	150	246	-37.76	-30.00	7.76	PASS	Horizontal
6	38662.2662	150	228	-48.71	-30.00	18.71	PASS	Horizontal



Mode	802.11 n(HT20) Transmitting	Remark	/
Band	\	Channel	5745MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

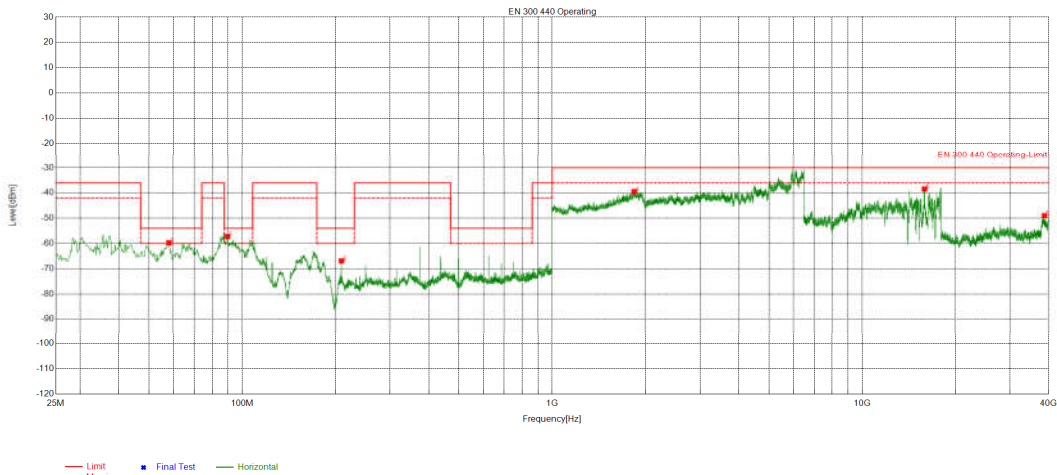


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.3765	150	62	-57.91	-54.00	3.91	PASS	Vertical
2	93.6537	150	28	-62.12	-54.00	8.12	PASS	Vertical
3	184.3469	150	206	-66.85	-54.00	12.85	PASS	Vertical
4	1776.1276	150	278	-39.18	-30.00	9.18	PASS	Vertical
5	15891.5261	150	211	-37.99	-30.00	7.99	PASS	Vertical
6	38743.6744	150	62	-47.72	-30.00	17.72	PASS	Vertical

Mode	802.11 n(HT20) Transmitting	Remark	/
Band	\	Channel	5825MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

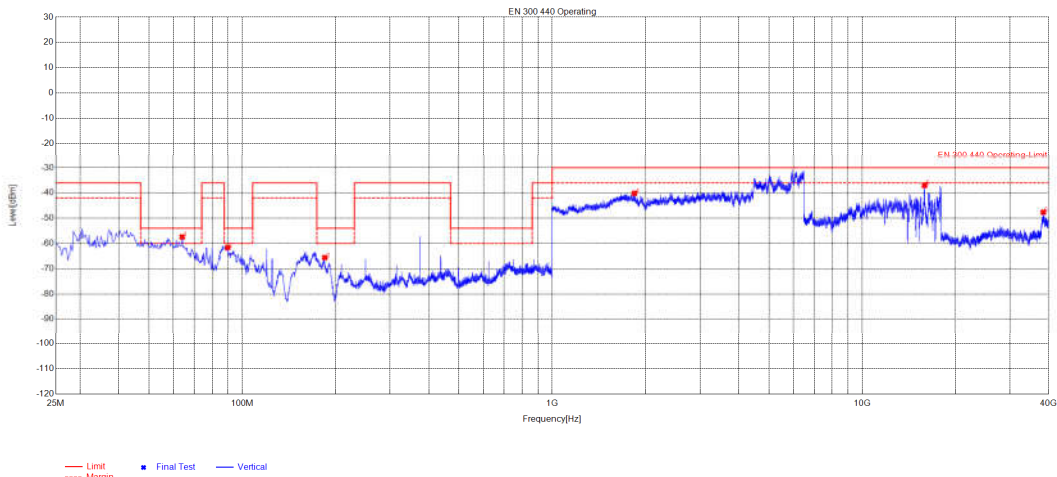


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.9616	150	3	-59.74	-54.00	5.74	PASS	Horizontal
2	89.5579	150	84	-57.26	-54.00	3.26	PASS	Horizontal
3	208.9218	150	74	-66.90	-54.00	12.90	PASS	Horizontal
4	1838.8339	150	162	-39.47	-30.00	9.47	PASS	Horizontal
5	15893.8263	150	266	-38.41	-30.00	8.41	PASS	Horizontal
6	38754.6755	150	355	-48.98	-30.00	18.98	PASS	Horizontal

Mode	802.11 n(HT20) Transmitting	Remark	/
Band	\	Channel	5825MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

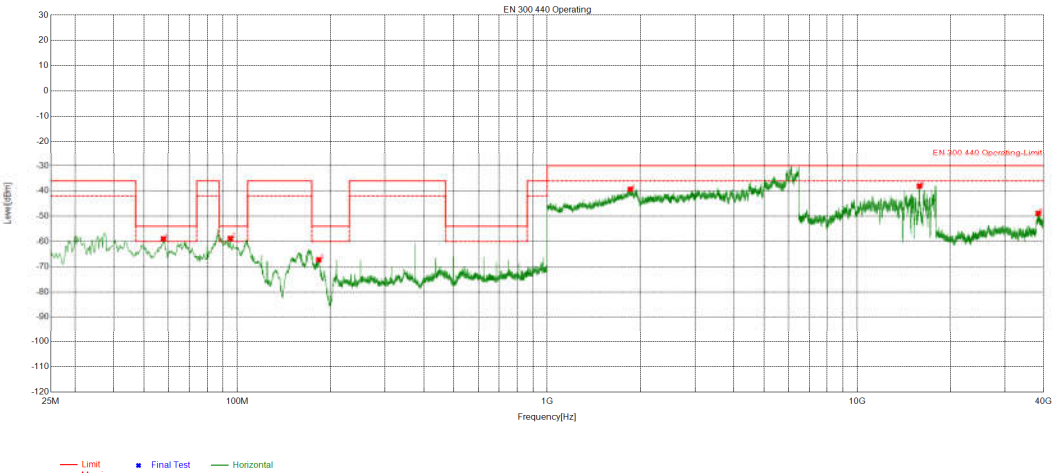


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	64.0078	150	274	-57.40	-54.00	3.40	PASS	Vertical
2	89.753	150	3	-61.63	-54.00	7.63	PASS	Vertical
3	184.5419	150	230	-65.60	-54.00	11.60	PASS	Vertical
4	1842.1342	150	230	-40.14	-30.00	10.14	PASS	Vertical
5	15896.1264	150	302	-37.04	-30.00	7.04	PASS	Vertical
6	38398.2398	150	89	-47.63	-30.00	17.63	PASS	Vertical

Mode	802.11 ac(VHT40) Transmitting	Remark	/
Band	\	Channel	5755MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

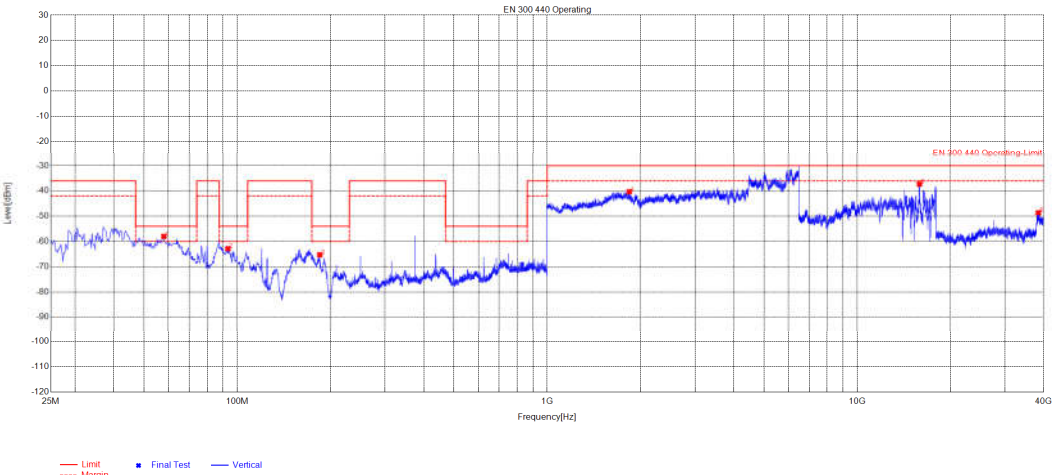


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.7666	150	3	-58.96	-54.00	4.96	PASS	Horizontal
2	95.019	150	84	-58.77	-54.00	4.77	PASS	Horizontal
3	183.1766	150	65	-67.22	-54.00	13.22	PASS	Horizontal
4	1854.2354	150	127	-39.33	-30.00	9.33	PASS	Horizontal
5	15899.1933	150	172	-38.04	-30.00	8.04	PASS	Horizontal
6	38378.4378	150	57	-48.86	-30.00	18.86	PASS	Horizontal

Mode	802.11 ac(VHT40) Transmitting	Remark	/
Band	\	Channel	5755MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



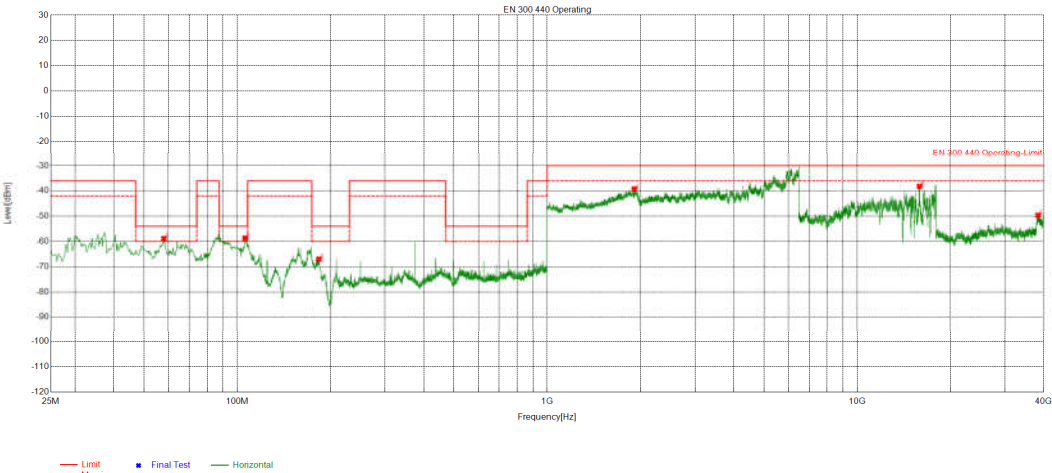
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.9616	150	21	-57.99	-54.00	3.99	PASS	Vertical
2	93.2637	150	48	-62.83	-54.00	8.83	PASS	Vertical
3	184.5419	150	214	-65.25	-54.00	11.25	PASS	Vertical
4	1839.934	150	92	-40.30	-30.00	10.30	PASS	Vertical
5	15893.0595	150	36	-37.25	-30.00	7.25	PASS	Vertical
6	38426.8427	150	3	-48.64	-30.00	18.64	PASS	Vertical



Mode	802.11 ac(VHT40) Transmitting	Remark	/
Band	\	Channel	5795MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

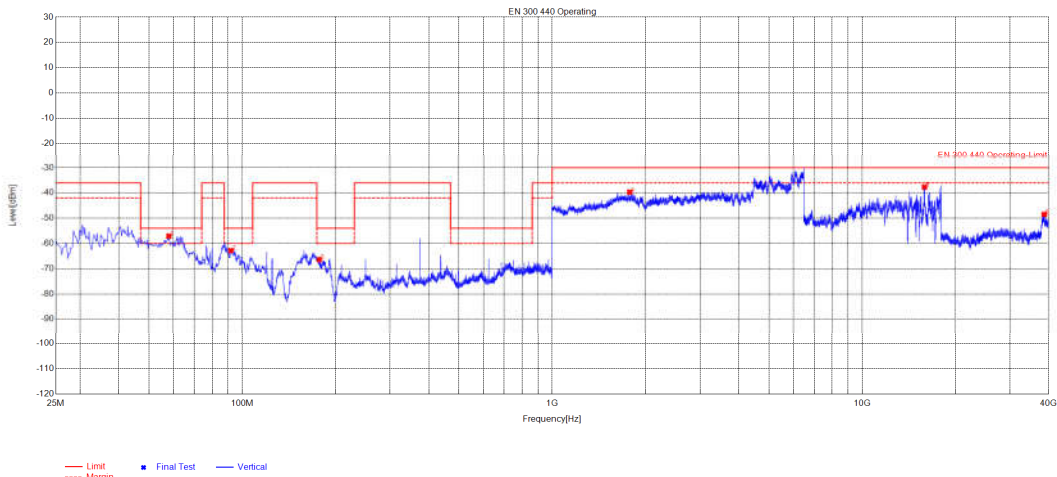


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.9616	150	21	-58.85	-54.00	4.85	PASS	Horizontal
2	105.9412	150	65	-58.66	-54.00	4.66	PASS	Horizontal
3	183.3717	150	73	-66.99	-54.00	12.99	PASS	Horizontal
4	1909.791	150	3	-39.25	-30.00	9.25	PASS	Horizontal
5	15897.6598	150	84	-38.20	-30.00	8.20	PASS	Horizontal
6	38341.0341	150	233	-49.62	-30.00	19.62	PASS	Horizontal

Mode	802.11 ac(VHT40) Transmitting	Remark	/
Band	\	Channel	5795MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

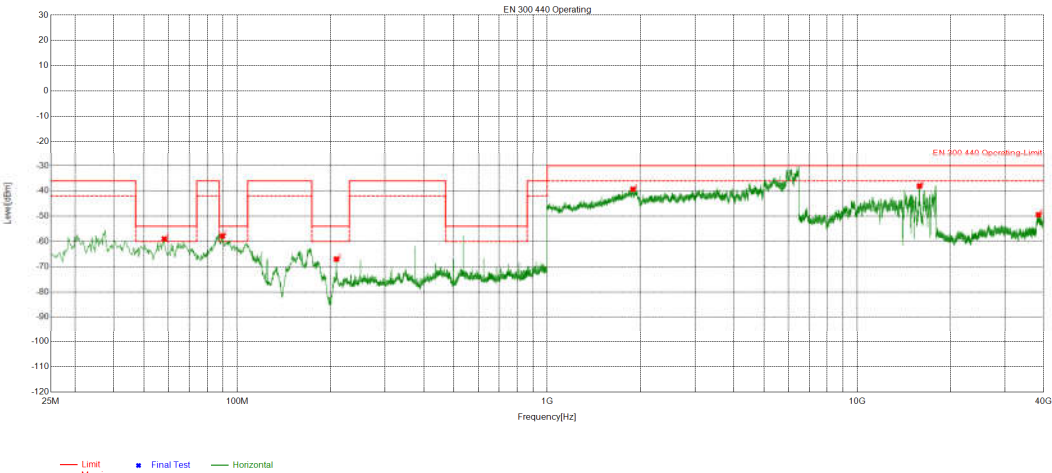


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.9616	150	3	-57.08	-54.00	3.08	PASS	Vertical
2	91.8984	150	28	-62.81	-54.00	8.81	PASS	Vertical
3	177.1304	150	3	-66.35	-54.00	12.35	PASS	Vertical
4	1778.3278	150	46	-39.69	-30.00	9.69	PASS	Vertical
5	15893.0595	150	349	-37.66	-30.00	7.66	PASS	Vertical
6	38690.8691	150	169	-48.50	-30.00	18.50	PASS	Vertical

Mode	802.11 ax(HE80) Transmitting	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

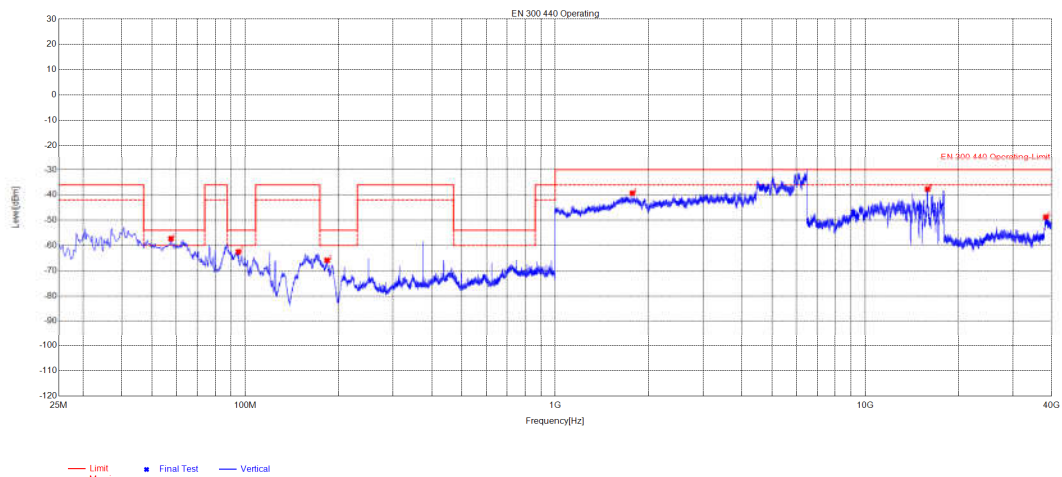


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	58.1566	150	3	-59.00	-54.00	5.00	PASS	Horizontal
2	89.5579	150	81	-57.81	-54.00	3.81	PASS	Horizontal
3	208.9218	150	133	-66.97	-54.00	12.97	PASS	Horizontal
4	1891.6392	150	3	-39.34	-30.00	9.34	PASS	Horizontal
5	15896.8931	150	286	-38.03	-30.00	8.03	PASS	Horizontal
6	38462.0462	150	90	-49.42	-30.00	19.42	PASS	Horizontal

Mode	802.11 ax(HE80) Transmitting	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

## Test Graph

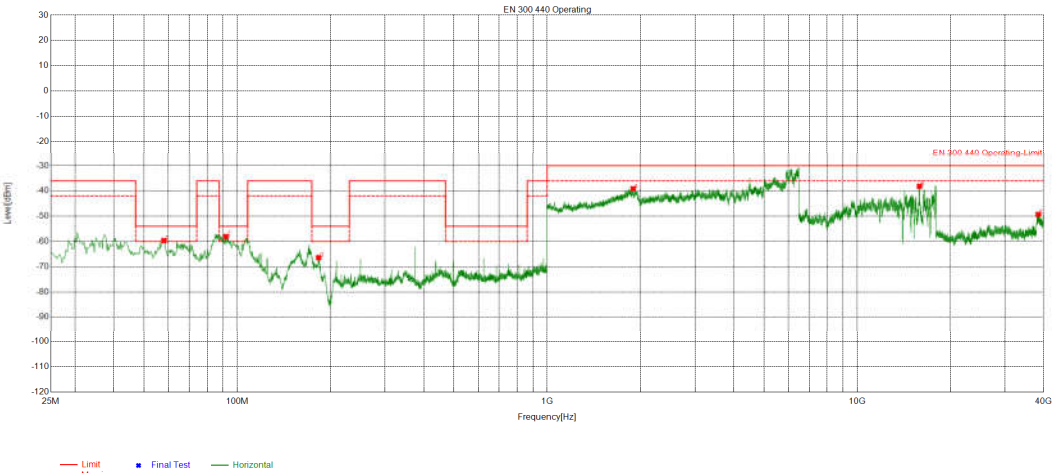


## Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.5715	150	144	-57.31	-54.00	3.31	PASS	Vertical
2	95.019	150	22	-62.49	-54.00	8.49	PASS	Vertical
3	183.5667	150	224	-65.88	-54.00	11.88	PASS	Vertical
4	1773.9274	150	285	-39.32	-30.00	9.32	PASS	Vertical
5	15904.5603	150	114	-37.69	-30.00	7.69	PASS	Vertical
6	38288.2288	150	84	-48.74	-30.00	18.74	PASS	Vertical

Mode	802.11 be(EHT80)Transmittin	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



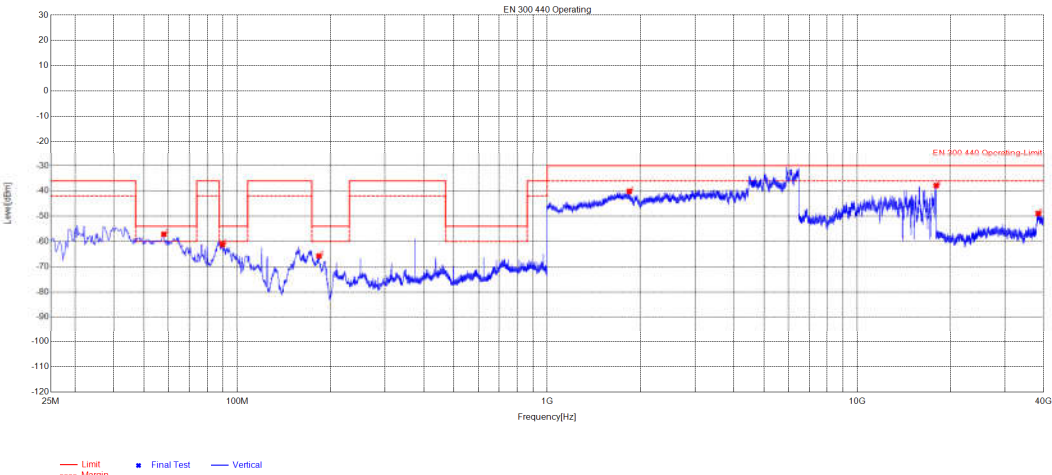
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.9616	150	3	-59.65	-54.00	5.65	PASS	Horizontal
2	91.8984	150	66	-58.05	-54.00	4.05	PASS	Horizontal
3	182.9816	150	74	-66.40	-54.00	12.40	PASS	Horizontal
4	1893.2893	150	288	-39.11	-30.00	9.11	PASS	Horizontal
5	15899.1933	150	94	-38.12	-30.00	8.12	PASS	Horizontal
6	38404.8405	150	349	-49.32	-30.00	19.32	PASS	Horizontal



Mode	802.11 be(EHT80)Transmittin	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.9616	150	3	-57.13	-54.00	3.13	PASS	Vertical
2	89.5579	150	30	-61.22	-54.00	7.22	PASS	Vertical
3	183.3717	150	190	-65.76	-54.00	11.76	PASS	Vertical
4	1839.934	150	171	-40.14	-30.00	10.14	PASS	Vertical
5	17996.9331	150	254	-37.84	-30.00	7.84	PASS	Vertical
6	38413.6414	150	276	-48.91	-30.00	18.91	PASS	Vertical

## 6.2 Receiver requirements

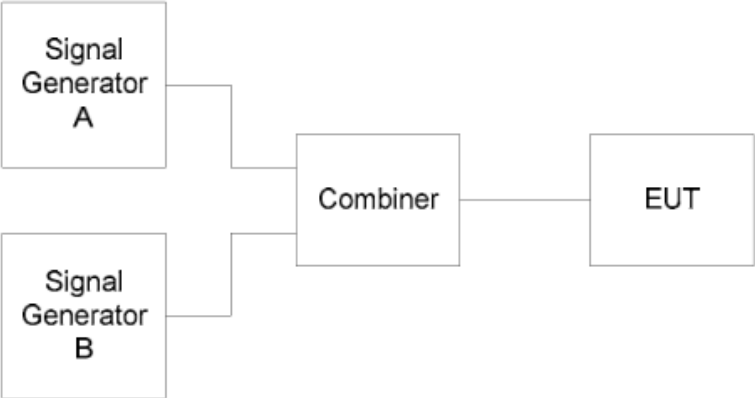
Receiver Classification, Table 5 of EN 300 440.		
Receiver category	Relevant receiver clauses	Risk assessment of receiver performance
1	4.3.3, 4.3.4 and 4.3.5	Highly reliable SRD communication media; e.g. serving human life inherent systems (may result in a physical risk to a person).
2	4.3.4 and 4.3.5	Medium reliable SRD communication media e.g. causing Inconvenience to persons, which cannot simply be overcome by other means.
3	4.3.5	Standard reliable SRD communication media e.g. Inconvenience to persons, which can simply be overcome by other means (e.g. manual).

**Remark: The EUT belong to Receiver category 1.**

6.2.1 Adjacent channel selectivity

Test Requirement: EN 300 440 Clause 4.3.3  
Equipment Used: Refer to section 5 for details.

Test Setup:



Limit for adjacent channel selectivity

Limit
-30dBm + k

Limit:

The correction factor, k, is as follows:  
 $k = -20 \cdot \lg(f) - 10 \cdot \lg(BW)$

Where:

- f is the frequency in GHz;
- BW is the channel bandwidth in MHz.

The factor k is limited within the following:  
 $-40\text{dB} < k < 0\text{dB}$ .

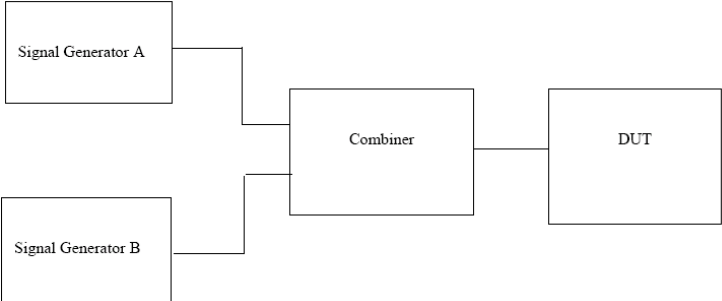
Test Status: Keep the Rx operating with receiver mode under normal test conditions.  
Test result: PASS  
Test data: Refer to Appendix: 5G Wi-Fi Band 4

6.2.2 Blocking or desensitization

Test Requirement: EN 300 440 Clause 4.3.4

Equipment Used: Refer to section 5 for details.

Test Setup:



Limits for blocking or desensitization

Receiver category	Limit
1	-30dBm + k
2	-45dBm + k
3	-60dBm + k

Limit:

The correction factor, k, is as follows:  
 $k = -20 \cdot \lg(f) - 10 \cdot \lg(BW)$

Where:

- f is the frequency in GHz;
- BW is the channel bandwidth in MHz.

The factor k is limited within the following:  
 $-40 < k < 0 \text{ dB}$ .

Test Status: Keep the Rx operating with receiver mode under normal test conditions.

Test result: PASS

Test data: Refer to Appendix: 5G Wi-Fi Band 4

## 6.2.3 Spurious radiation

**Test Requirement:** EN 300 440 Clause 4.3.5

**Equipment Used:** Refer to section 5 for details.

**Receiver Setup:**

Frequency range	Measuring receiver bandwidth	Detector mode
25MHz-1000MHz	120kHz	QP
1GHz-40GHz	1MHz	Peak

**Test Setup:**

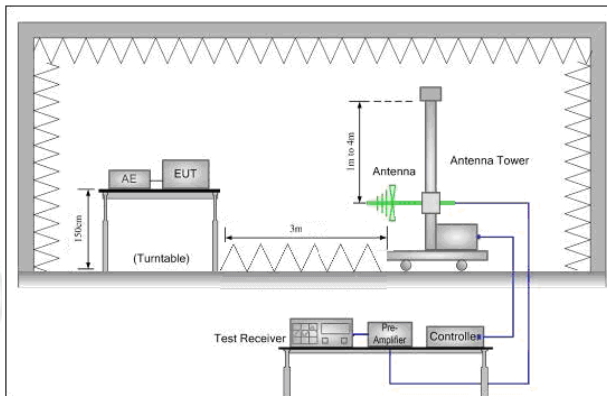


Figure 1. 25MHz to 1GHz

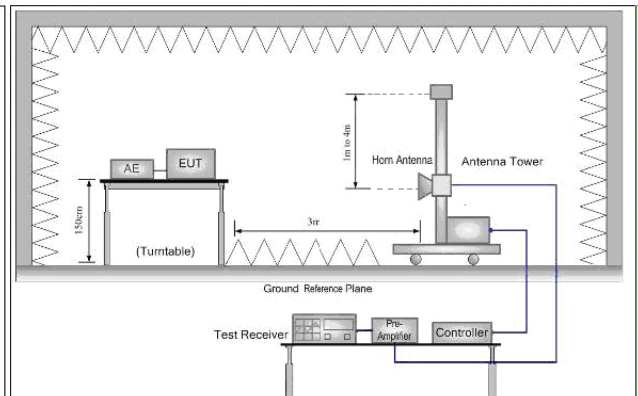


Figure 2. Above 1GHz

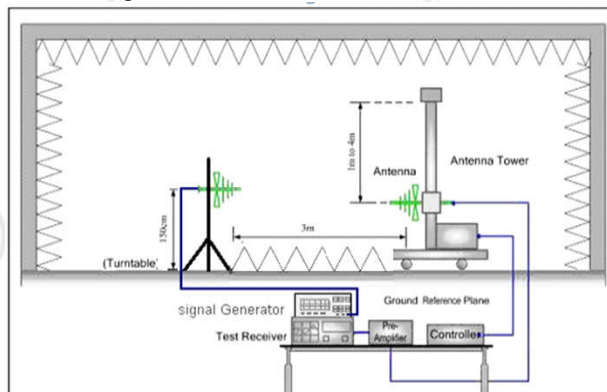


Figure 1. 25MHz to 1GHz

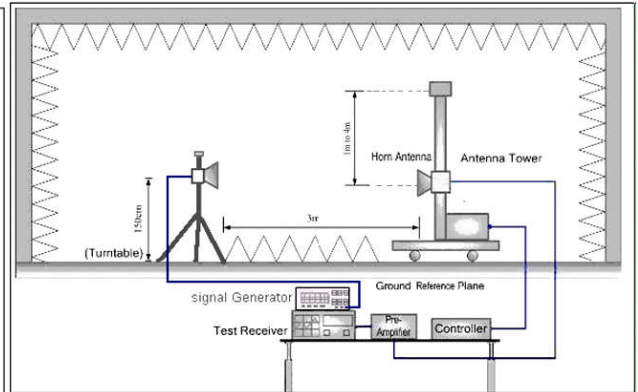


Figure 2. Above 1GHz

1. Scan from 25MHz to 40GHz; find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

- 1) The EUT was powered ON and placed on a 1.5m high table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. Modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The EUT was set 3 meters (above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 5) The transmitter was then removed and replaced with another antenna. The center

**Test Procedure:**



of the antenna was approximately at the same location as the center of the transmitter.

- 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
- 7) The output power into the substitution antenna was then measured.
- 8) Steps 6) and 7) were repeated with both antennas polarized.
- 9) Calculate power in dBm by the following formula:

①For SISO:

$ERP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$

$EIRP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)}$

$EIRP = ERP + 2.15dB$

②For MIMO:

$ERP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBd)} + \text{Beamforming gain (dBd)}$

$EIRP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)} + \text{Beamforming gain (dBd)}$

$EIRP = ERP + 2.15dB$

Where: Pg is the generator output power into the substitution antenna.

- 10) Test the EUT in the lowest channel and the Highest channel
- 11) Repeat above procedures until all frequencies measured was complete.

**Limit:**

Frequency range	Limit
25MHz-1000MHz	2nW (* -56.99dBm)
1GHz-40GHz	20nW (* -46.99dBm)

**Test Status:**

Keep the Rx operating with receiver mode under normal test conditions.

**Test result:**

PASS

**Remark:**

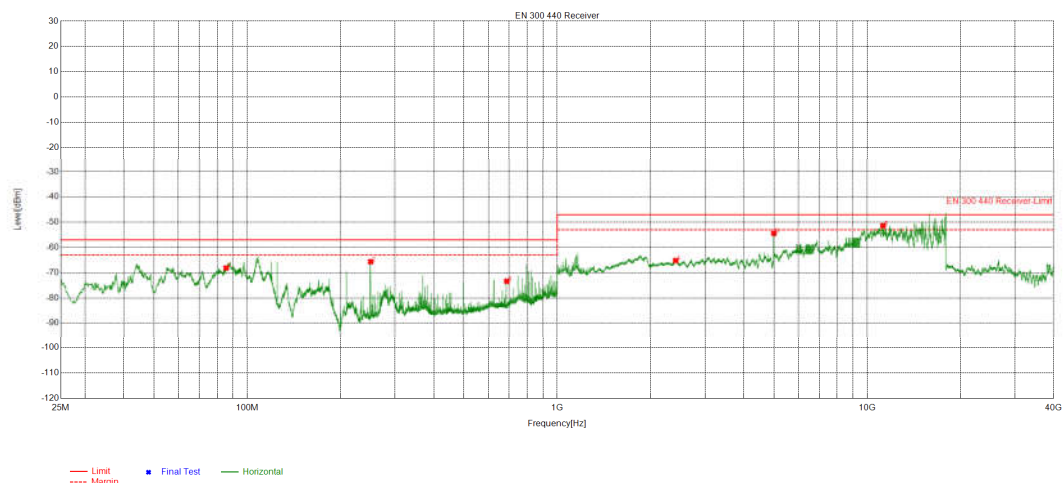
Through Pre-scan, ANT1 and MIMO mode was the worst case and only the worst case data was recorded in the report.

## Test Data:

### ANT1:

Mode	802.11 a Receiving	Remark	/
Band	\	Channel	5745MHz
Temperature		Humidity	
Ant		Engineer	chenjun

## Test Graph

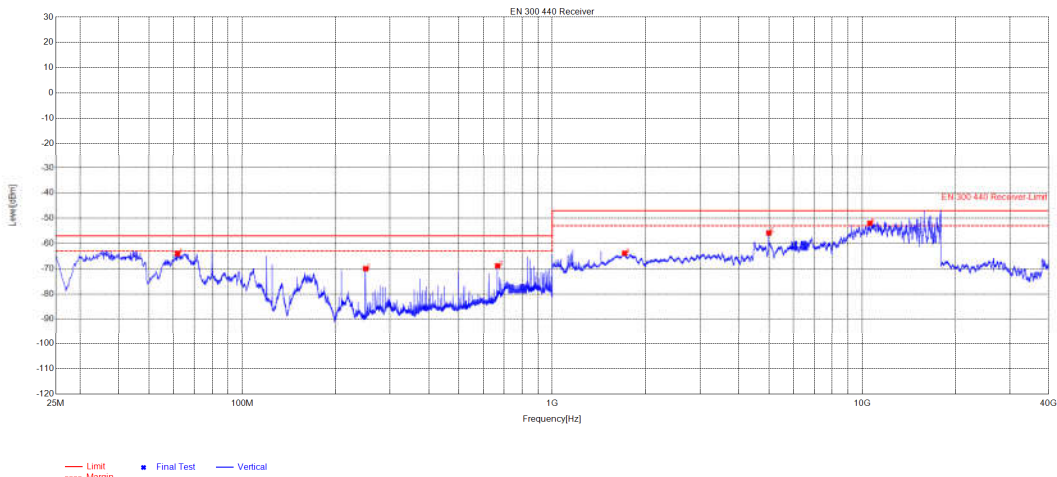


## Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	85.456	150	273	-68.13	-57.00	11.13	PASS	Horizontal
2	250.0525	150	117	-65.63	-57.00	8.63	PASS	Horizontal
3	687.5788	150	20	-73.37	-57.00	16.37	PASS	Horizontal
4	2411.0706	150	273	-65.19	-47.00	18.19	PASS	Horizontal
5	5000.3	150	178	-54.40	-47.00	7.40	PASS	Horizontal
6	11248.1124	150	287	-51.37	-47.00	4.37	PASS	Horizontal

Mode	802.11 a Receiving	Remark	/
Band	\	Channel	5745MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

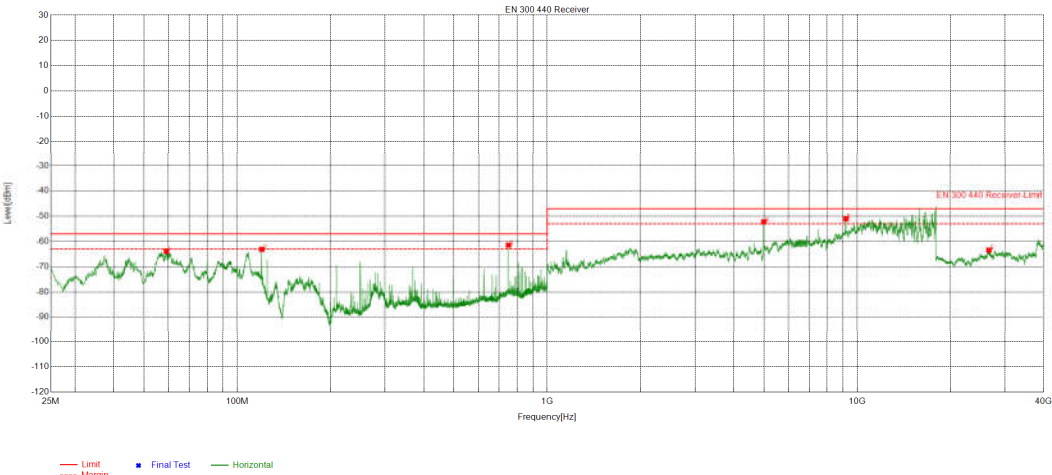


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	61.7612	150	186	-64.07	-57.00	7.07	PASS	Vertical
2	250.0525	150	124	-70.00	-57.00	13.00	PASS	Vertical
3	666.7117	150	31	-68.83	-57.00	11.83	PASS	Vertical
4	1714.0357	150	260	-63.85	-47.00	16.85	PASS	Vertical
5	5000.3	150	201	-55.84	-47.00	8.84	PASS	Vertical
6	10595.2798	150	161	-51.96	-47.00	4.96	PASS	Vertical

Mode	802.11 a Receiving	Remark	/
Band	\	Channel	5825MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

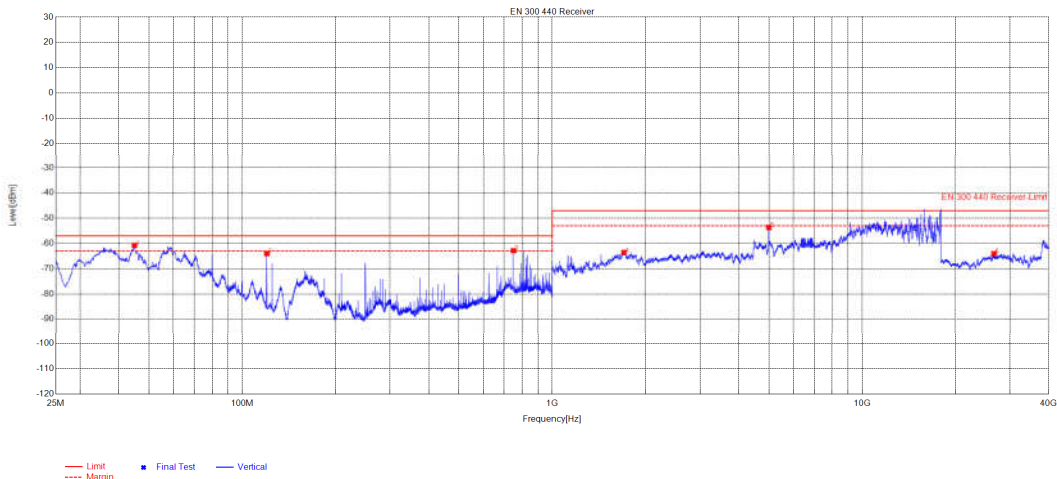


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	59.0309	150	357	-63.91	-57.00	6.91	PASS	Horizontal
2	119.9745	150	357	-63.11	-57.00	6.11	PASS	Horizontal
3	750.0825	150	82	-61.44	-57.00	4.44	PASS	Horizontal
4	5000.3	150	130	-52.23	-47.00	5.23	PASS	Horizontal
5	9199.51	150	191	-51.01	-47.00	4.01	PASS	Horizontal
6	26620.462	150	324	-63.46	-47.00	16.46	PASS	Horizontal

Mode	802.11 a Receiving	Remark	/
Band	\	Channel	5825MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



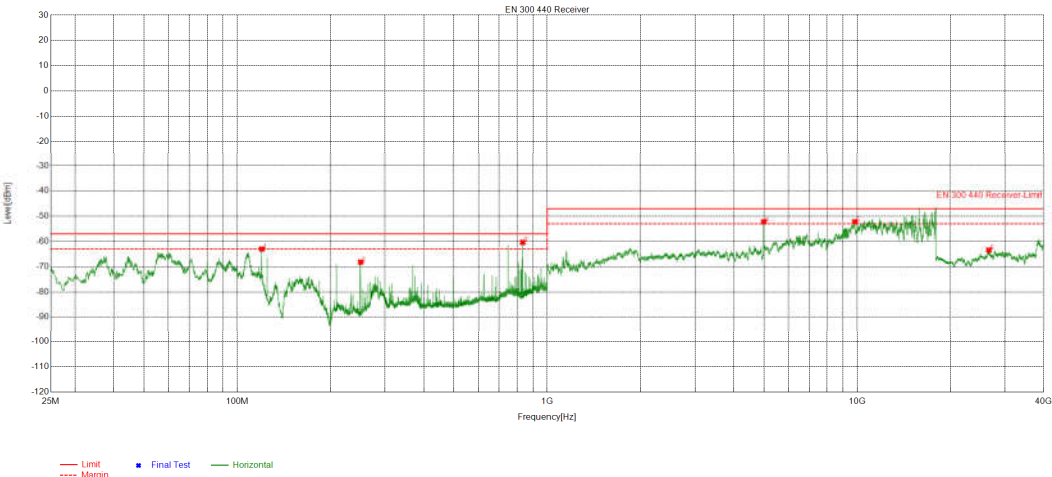
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	44.892	150	359	-60.77	-57.00	3.77	PASS	Vertical
2	119.9745	150	3	-64.02	-57.00	7.02	PASS	Vertical
3	750.0825	150	123	-62.84	-57.00	5.84	PASS	Vertical
4	1703.8352	150	37	-63.55	-47.00	16.55	PASS	Vertical
5	5000.3	150	302	-53.65	-47.00	6.65	PASS	Vertical
6	26629.2629	150	340	-64.03	-47.00	17.03	PASS	Vertical



Mode	802.11 n(HT40) Receiving	Remark	/
Band	\	Channel	5755MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

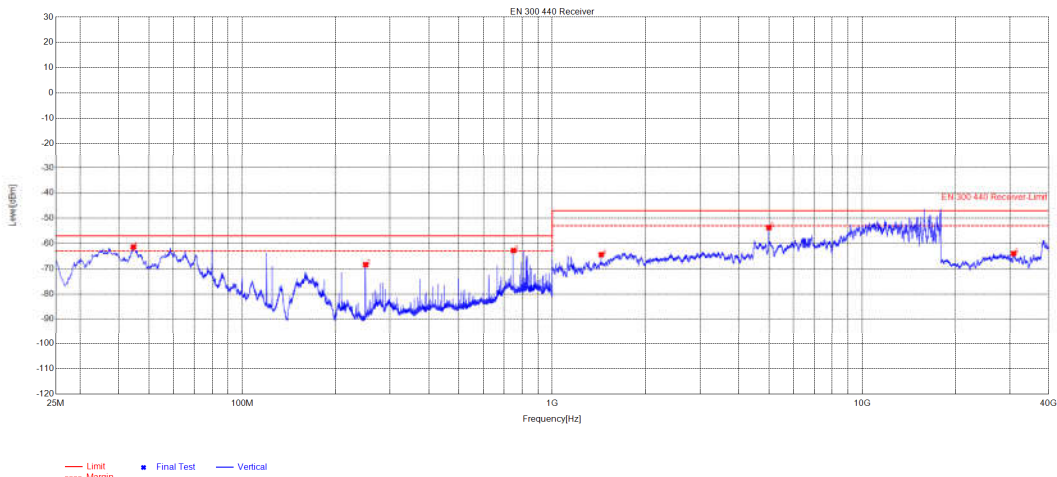


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	119.9745	150	357	-63.00	-57.00	6.00	PASS	Horizontal
2	250.0525	150	131	-68.18	-57.00	11.18	PASS	Horizontal
3	833.6484	150	84	-60.34	-57.00	3.34	PASS	Horizontal
4	5000.3	150	84	-52.20	-47.00	5.20	PASS	Horizontal
5	9827.6914	150	253	-52.21	-47.00	5.21	PASS	Horizontal
6	26605.0605	150	335	-63.43	-47.00	16.43	PASS	Horizontal

Mode	802.11 n(HT40) Receiving	Remark	/
Band	\	Channel	5755MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

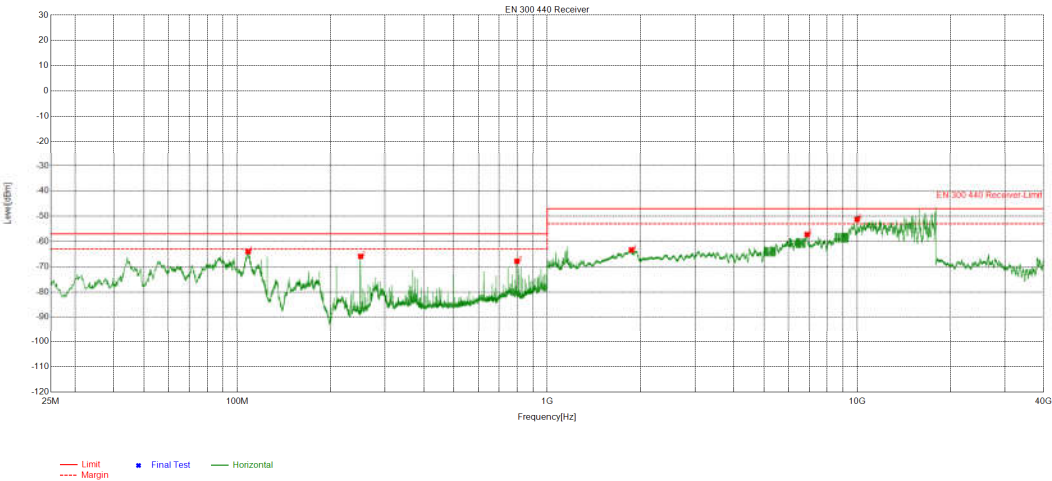


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	44.502	150	348	-61.40	-57.00	4.40	PASS	Vertical
2	250.0525	150	122	-68.39	-57.00	11.39	PASS	Vertical
3	750.0825	150	122	-62.80	-57.00	5.80	PASS	Vertical
4	1440.322	150	252	-64.42	-47.00	17.42	PASS	Vertical
5	5000.3	150	301	-53.71	-47.00	6.71	PASS	Vertical
6	30814.0814	150	86	-63.99	-47.00	16.99	PASS	Vertical

Mode	802.11 n(HT40) Receiving	Remark	/
Band	\	Channel	5795MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

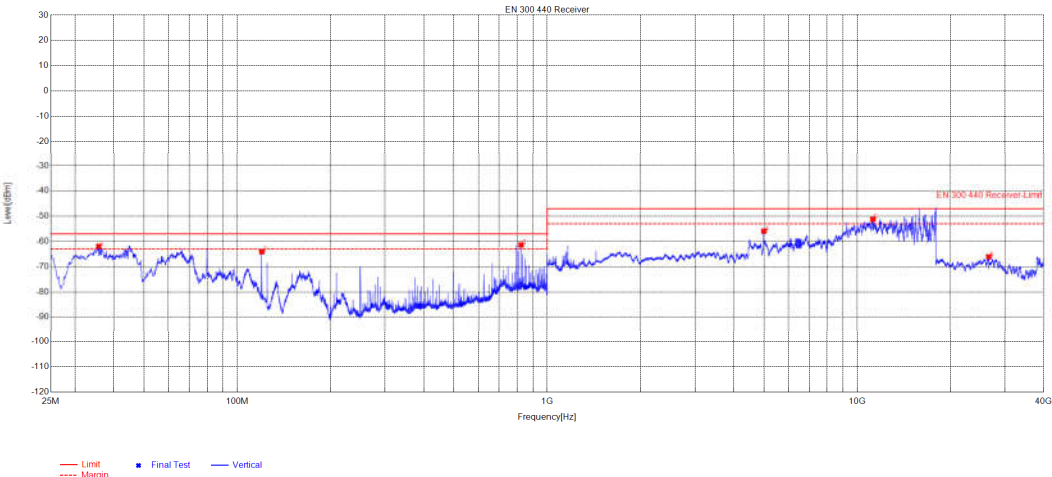


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	108.3708	150	189	-64.05	-57.00	7.05	PASS	Horizontal
2	250.0525	150	106	-65.89	-57.00	8.89	PASS	Horizontal
3	798.7399	150	357	-67.83	-57.00	10.83	PASS	Horizontal
4	1871.2936	150	70	-63.33	-47.00	16.33	PASS	Horizontal
5	6899.295	150	357	-57.26	-47.00	10.26	PASS	Horizontal
6	10000.25	150	346	-51.26	-47.00	4.26	PASS	Horizontal

Mode	802.11 n(HT40) Receiving	Remark	/
Band	\	Channel	5795MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

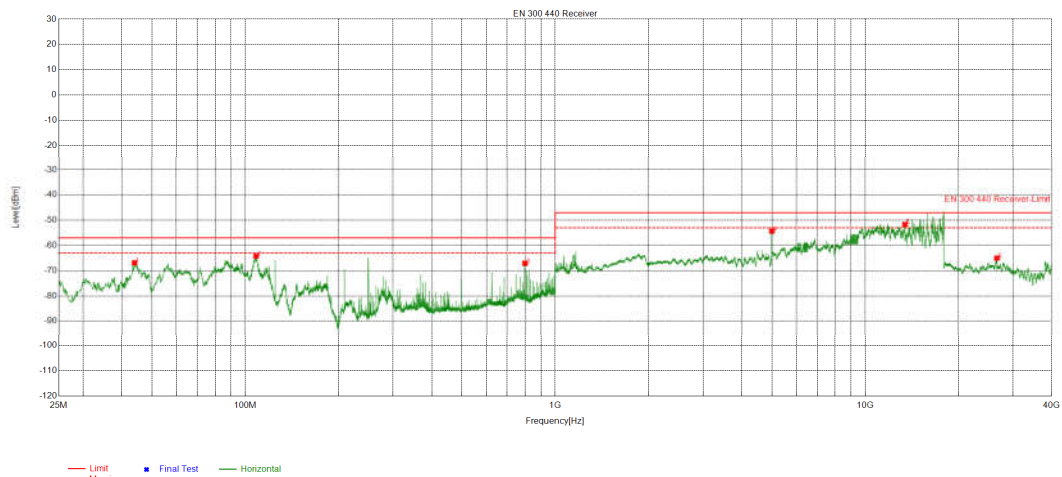


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	35.7261	150	86	-61.93	-57.00	4.93	PASS	Vertical
2	119.9745	150	3	-64.09	-57.00	7.09	PASS	Vertical
3	823.3123	150	328	-61.36	-57.00	4.36	PASS	Vertical
4	5000.3	150	207	-55.90	-47.00	8.90	PASS	Vertical
5	11242.1621	150	72	-51.21	-47.00	4.21	PASS	Vertical
6	26605.0605	150	360	-66.09	-47.00	19.09	PASS	Vertical

Mode	802.11 ac(VHT80) Receiving	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

## Test Graph



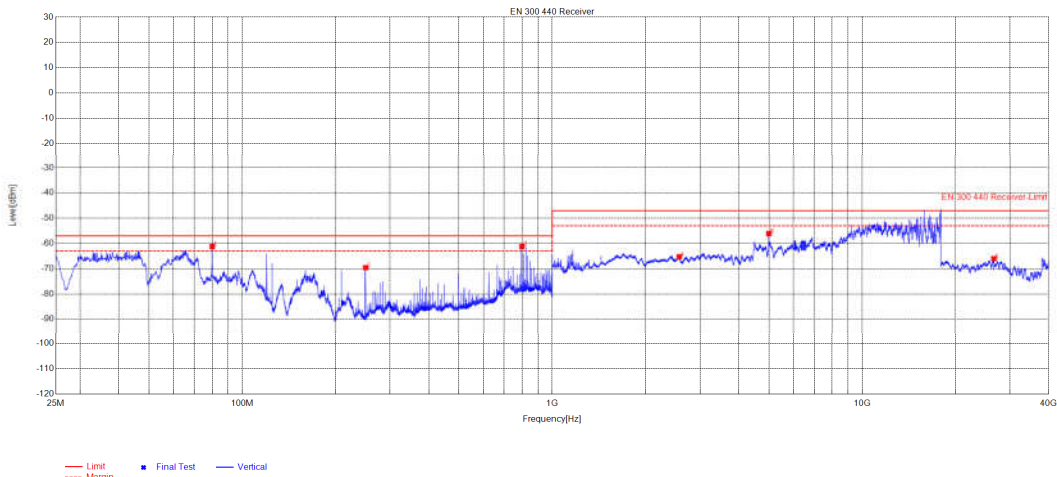
## Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	43.9169	150	126	-66.86	-57.00	9.86	PASS	Horizontal
2	108.3708	150	17	-64.22	-57.00	7.22	PASS	Horizontal
3	798.7399	150	357	-67.05	-57.00	10.05	PASS	Horizontal
4	5000.3	150	176	-54.30	-47.00	7.30	PASS	Horizontal
5	13445.4723	150	357	-51.68	-47.00	4.68	PASS	Horizontal
6	26620.462	150	103	-65.01	-47.00	18.01	PASS	Horizontal



Mode	802.11 ac(VHT80) Receiving	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

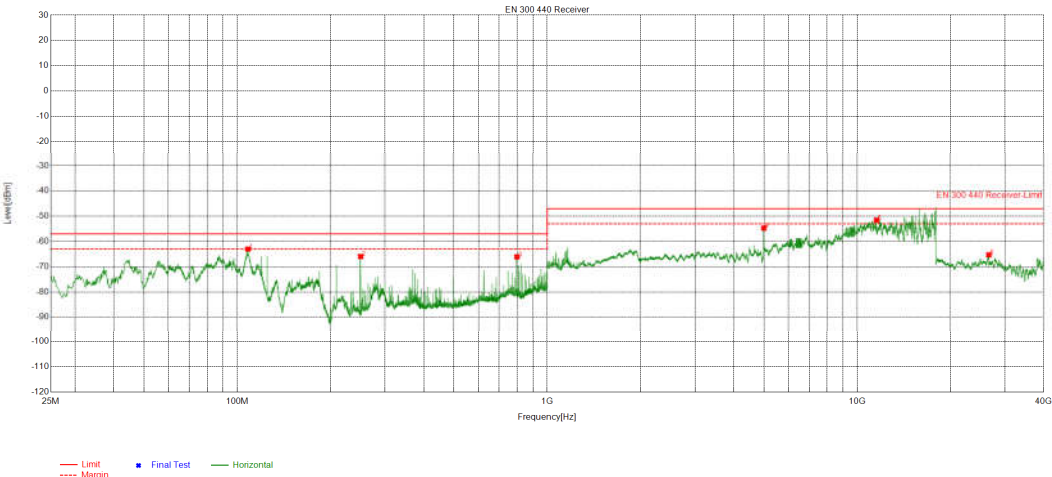


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	79.9955	150	3	-61.22	-57.00	4.22	PASS	Vertical
2	250.0525	150	123	-69.58	-57.00	12.58	PASS	Vertical
3	798.7399	150	353	-61.18	-57.00	4.18	PASS	Vertical
4	2570.8785	150	342	-65.23	-47.00	18.23	PASS	Vertical
5	5000.3	150	281	-56.06	-47.00	9.06	PASS	Vertical
6	26609.4609	150	270	-66.02	-47.00	19.02	PASS	Vertical

Mode	802.11 be(EHT80) Receiving	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

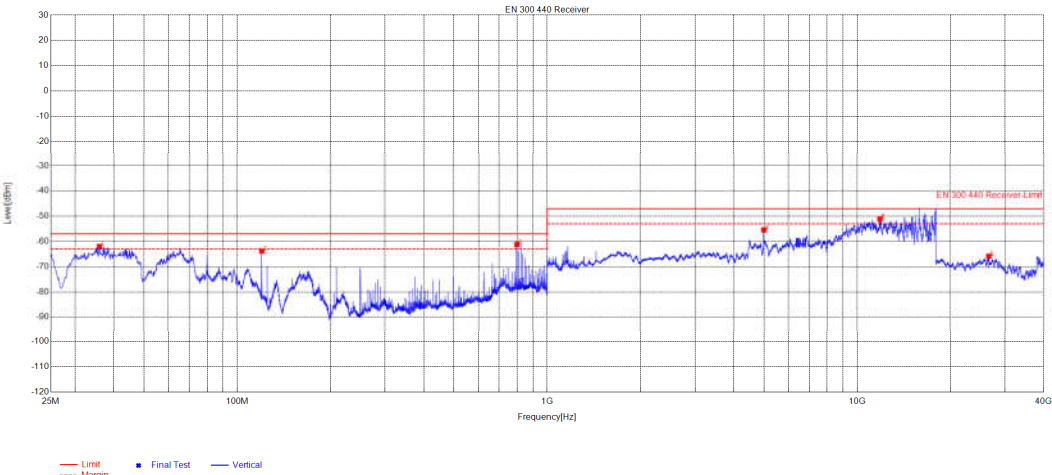


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	108.2733	150	200	-63.02	-57.00	6.02	PASS	Horizontal
2	250.0525	150	116	-65.95	-57.00	8.95	PASS	Horizontal
3	798.7399	150	357	-66.08	-57.00	9.08	PASS	Horizontal
4	5000.3	150	177	-54.70	-47.00	7.70	PASS	Horizontal
5	11549.8775	150	0	-51.57	-47.00	4.57	PASS	Horizontal
6	26609.4609	150	79	-65.26	-47.00	18.26	PASS	Horizontal

Mode	802.11 be(EHT80) Receiving	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



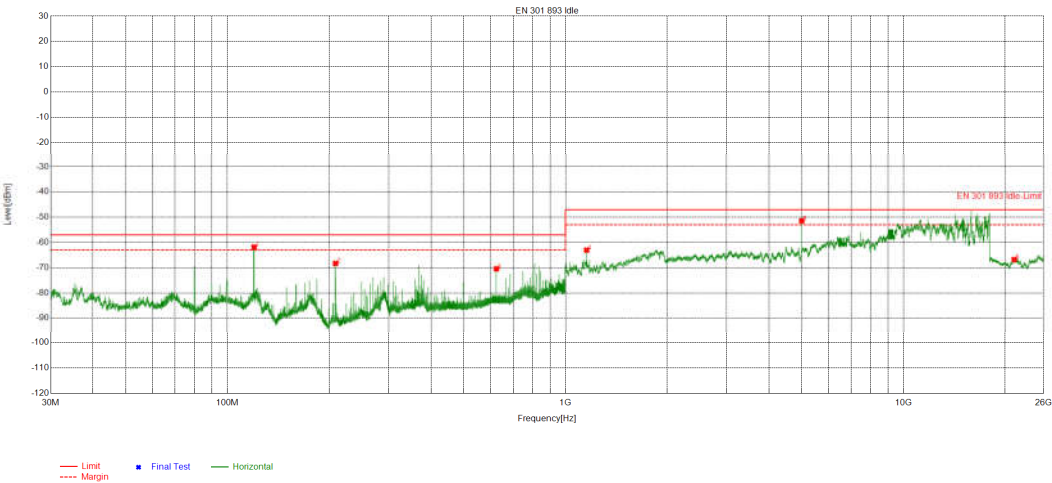
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	35.9211	150	3	-61.98	-57.00	4.98	PASS	Vertical
2	119.9745	150	3	-63.77	-57.00	6.77	PASS	Vertical
3	798.7399	150	354	-61.22	-57.00	4.22	PASS	Vertical
4	5000.3	150	208	-55.42	-47.00	8.42	PASS	Vertical
5	11849.9425	150	3	-51.09	-47.00	4.09	PASS	Vertical
6	26607.2607	150	270	-65.84	-47.00	18.84	PASS	Vertical

MIMO:

Mode	802.11 n(HT20) Receiving	Remark	/
Band	\	Channel	5745MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

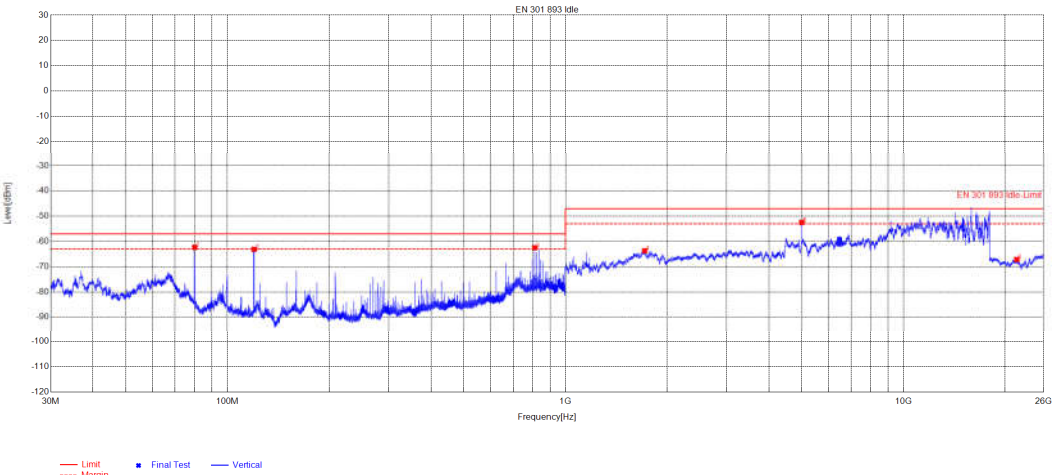


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	119.972	150	357	-61.80	-57.00	4.80	PASS	Horizontal
2	208.8769	150	357	-68.28	-57.00	11.28	PASS	Horizontal
3	625.0763	150	89	-70.43	-57.00	13.43	PASS	Horizontal
4	1155.0462	150	304	-63.02	-47.00	16.02	PASS	Horizontal
5	4999.92	150	129	-51.45	-47.00	4.45	PASS	Horizontal
6	21261.1261	150	224	-66.77	-47.00	19.77	PASS	Horizontal

Mode	802.11 n(HT20) Receiving	Remark	/
Band	\	Channel	5745MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



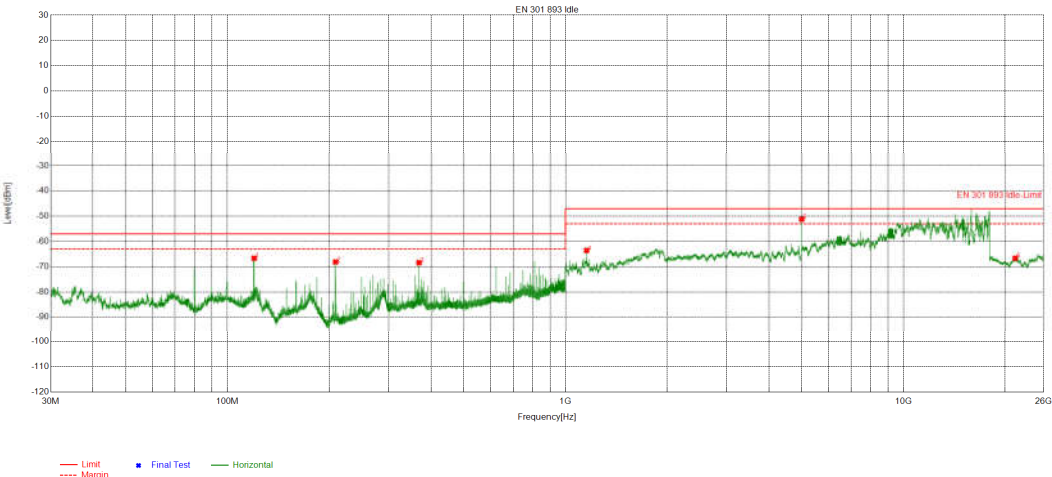
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.006	150	3	-62.33	-57.00	5.33	PASS	Vertical
2	120.0205	150	3	-63.09	-57.00	6.09	PASS	Vertical
3	810.986	150	359	-62.46	-57.00	5.46	PASS	Vertical
4	1714.7086	150	137	-63.69	-47.00	16.69	PASS	Vertical
5	4999.92	150	74	-52.47	-47.00	5.47	PASS	Vertical
6	21635.5636	150	3	-67.15	-47.00	20.15	PASS	Vertical



Mode	802.11 n(HT20) Receiving	Remark	/
Band	\	Channel	5825MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

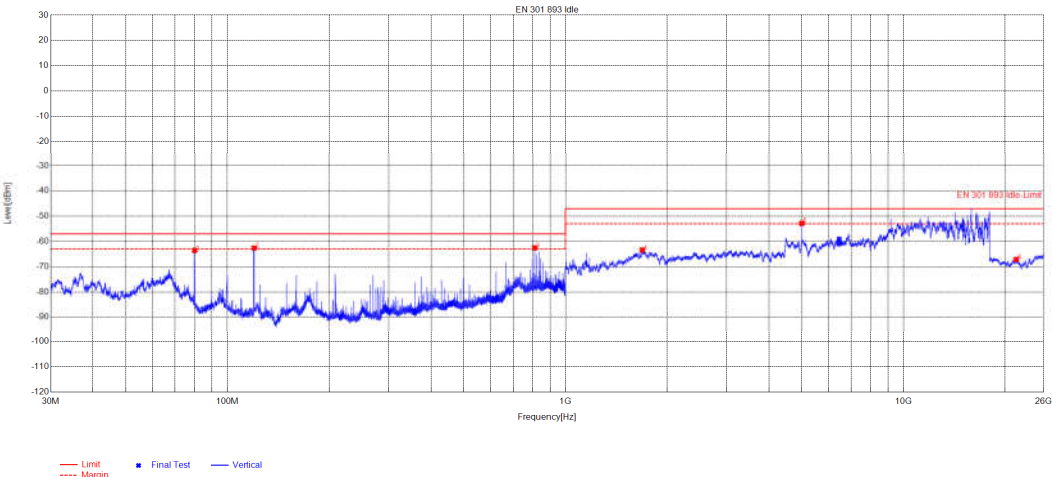


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	119.972	150	357	-66.61	-57.00	9.61	PASS	Horizontal
2	208.8769	150	357	-68.11	-57.00	11.11	PASS	Horizontal
3	368.6439	150	228	-68.39	-57.00	11.39	PASS	Horizontal
4	1155.0462	150	291	-63.54	-47.00	16.54	PASS	Horizontal
5	4999.92	150	122	-51.17	-47.00	4.17	PASS	Horizontal
6	21404.3404	150	246	-66.61	-47.00	19.61	PASS	Horizontal

Mode	802.11 n(HT20) Receiving	Remark	/
Band	\	Channel	5825MHz
Temperature		Humidity	
Ant		Engineer	chenjun

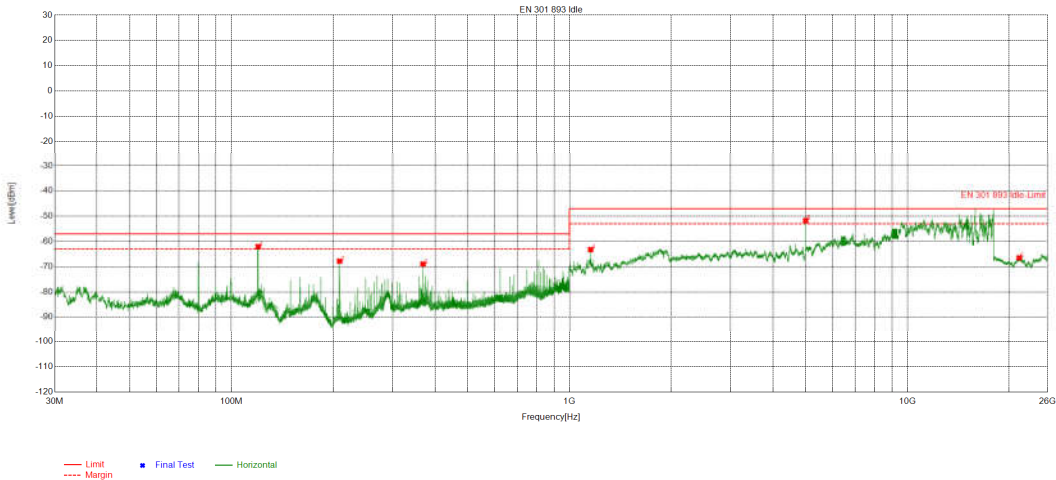
Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.006	150	3	-63.51	-57.00	6.51	PASS	Vertical
2	120.0205	150	3	-62.61	-57.00	5.61	PASS	Vertical
3	810.986	150	3	-62.52	-57.00	5.52	PASS	Vertical
4	1688.1875	150	289	-63.37	-47.00	16.37	PASS	Vertical
5	4999.92	150	74	-52.81	-47.00	5.81	PASS	Vertical
6	21565.1565	150	359	-67.12	-47.00	20.12	PASS	Vertical

Mode	802.11 ac(VHT40) Receiving	Remark	/
Band	\	Channel	5755MHz
Temperature		Humidity	
Ant		Engineer	chenjun

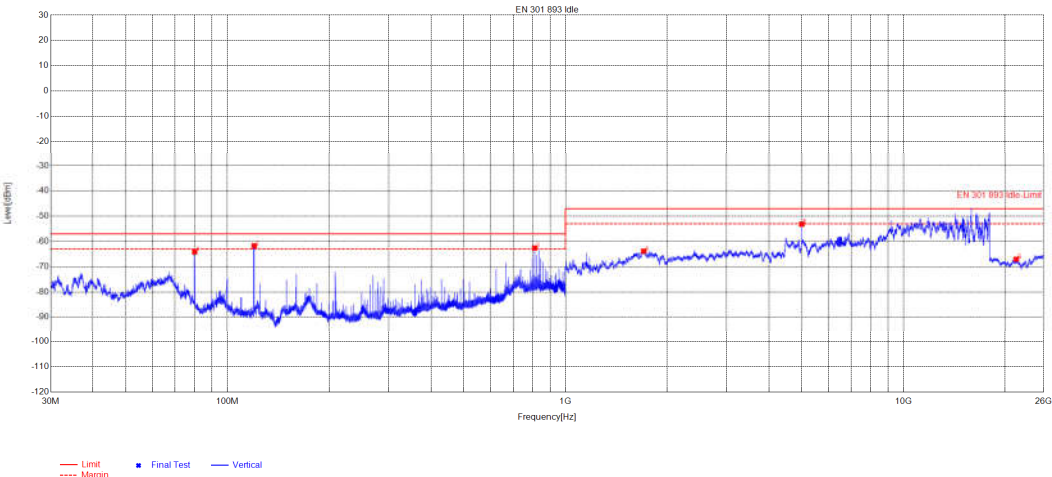


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	120.0205	150	357	-62.03	-57.00	5.03	PASS	Horizontal
2	208.8769	150	357	-67.80	-57.00	10.80	PASS	Horizontal
3	368.6439	150	207	-68.95	-57.00	11.95	PASS	Horizontal
4	1155.0462	150	1	-63.22	-47.00	16.22	PASS	Horizontal
5	4999.92	150	127	-51.70	-47.00	4.70	PASS	Horizontal
6	21394.7395	150	1	-66.48	-47.00	19.48	PASS	Horizontal

Mode	802.11 ac(VHT40) Receiving	Remark	/
Band	\	Channel	5755MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

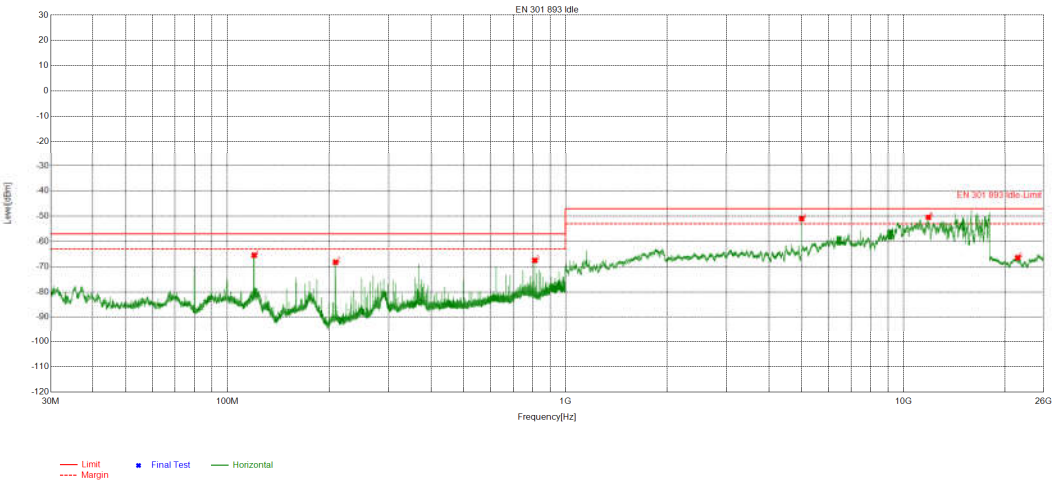


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.006	150	3	-64.11	-57.00	7.11	PASS	Vertical
2	120.0205	150	3	-61.70	-57.00	4.70	PASS	Vertical
3	810.986	150	360	-62.58	-57.00	5.58	PASS	Vertical
4	1703.8282	150	291	-63.85	-47.00	16.85	PASS	Vertical
5	4999.92	150	75	-53.13	-47.00	6.13	PASS	Vertical
6	21568.3568	150	360	-67.02	-47.00	20.02	PASS	Vertical

Mode	802.11 ac(VHT40) Receiving	Remark	/
Band	\	Channel	5795MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



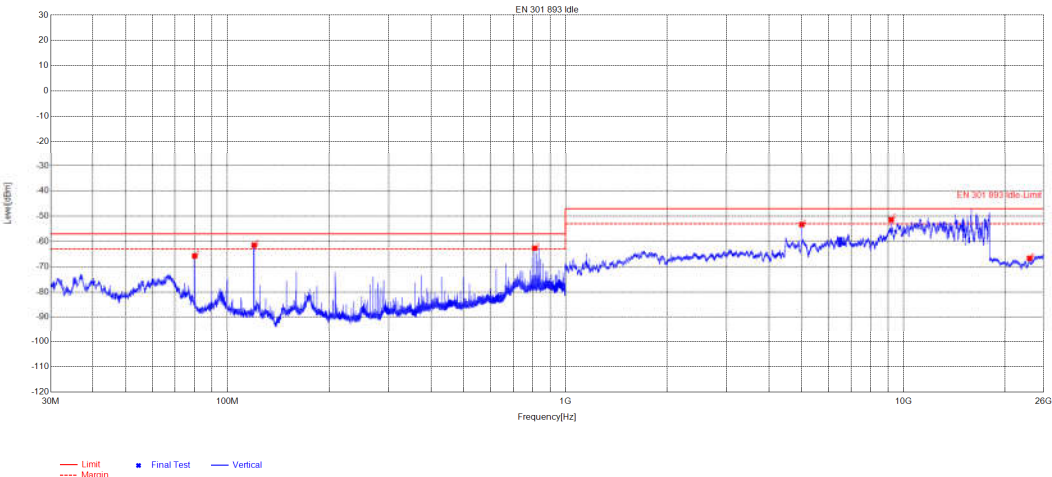
Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	120.0205	150	357	-65.41	-57.00	8.41	PASS	Horizontal
2	208.8769	150	357	-68.22	-57.00	11.22	PASS	Horizontal
3	810.986	150	357	-67.48	-57.00	10.48	PASS	Horizontal
4	4999.92	150	126	-50.98	-47.00	3.98	PASS	Horizontal
5	11852.5541	150	321	-50.44	-47.00	3.44	PASS	Horizontal
6	21774.7775	150	357	-66.42	-47.00	19.42	PASS	Horizontal



Mode	802.11 ac(VHT40) Receiving	Remark	/
Band	\	Channel	5795MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

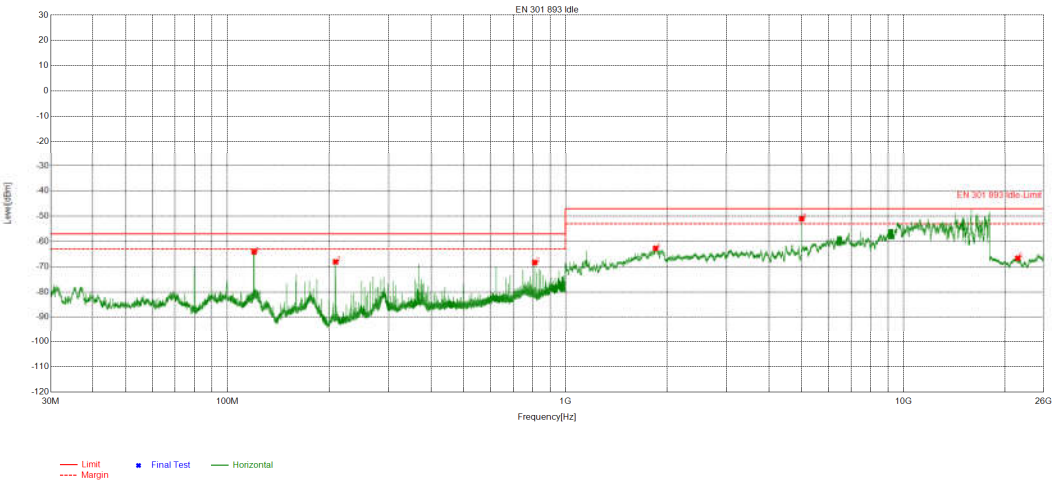


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.006	150	3	-65.74	-57.00	8.74	PASS	Vertical
2	120.0205	150	3	-61.44	-57.00	4.44	PASS	Vertical
3	810.986	150	3	-62.64	-57.00	5.64	PASS	Vertical
4	4999.92	150	216	-53.30	-47.00	6.30	PASS	Vertical
5	9199.768	150	234	-51.35	-47.00	4.35	PASS	Vertical
6	23617.3617	150	177	-66.63	-47.00	19.63	PASS	Vertical

Mode	802.11 ax(HE80) Receiving	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

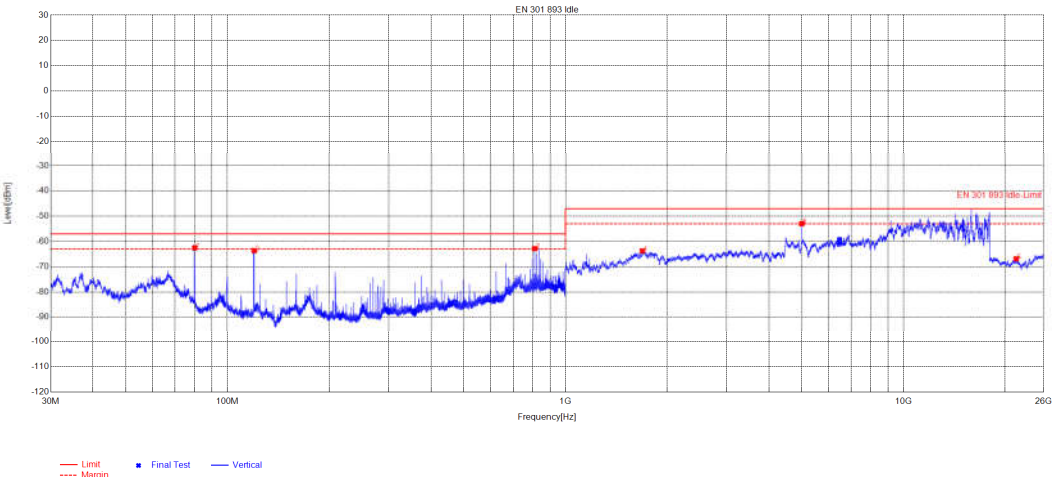


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	119.972	150	357	-64.16	-57.00	7.16	PASS	Horizontal
2	208.8769	150	357	-68.06	-57.00	11.06	PASS	Horizontal
3	810.986	150	357	-68.33	-57.00	11.33	PASS	Horizontal
4	1847.3139	150	199	-62.74	-47.00	15.74	PASS	Horizontal
5	4999.92	150	129	-51.03	-47.00	4.03	PASS	Horizontal
6	21794.7795	150	111	-66.62	-47.00	19.62	PASS	Horizontal

Mode	802.11 ax(HE80) Receiving	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

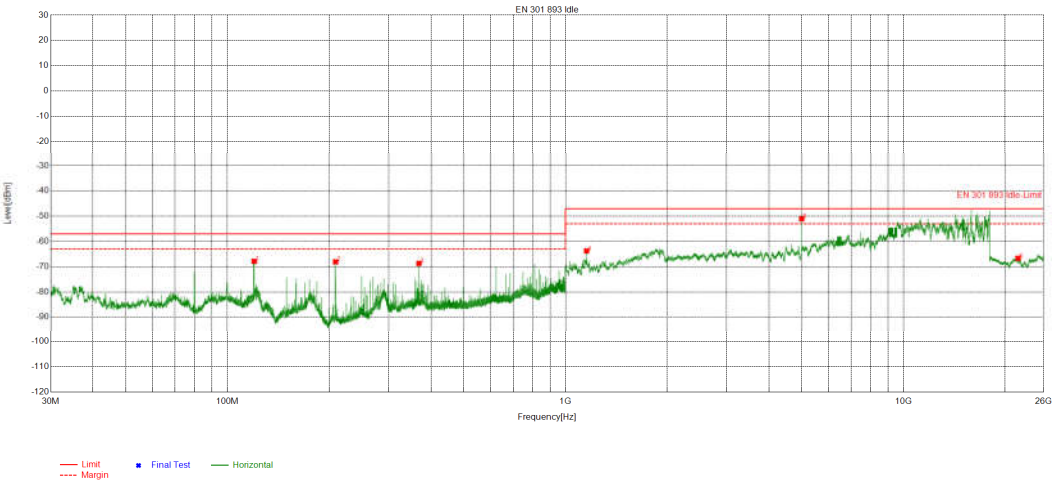


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.006	150	3	-62.53	-57.00	5.53	PASS	Vertical
2	120.0205	150	3	-63.62	-57.00	6.62	PASS	Vertical
3	810.986	150	359	-62.80	-57.00	5.80	PASS	Vertical
4	1688.8676	150	249	-63.73	-47.00	16.73	PASS	Vertical
5	4999.92	150	211	-52.93	-47.00	5.93	PASS	Vertical
6	21553.9554	150	190	-66.87	-47.00	19.87	PASS	Vertical

Mode	802.11 be(EHT80 )Receiving	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph

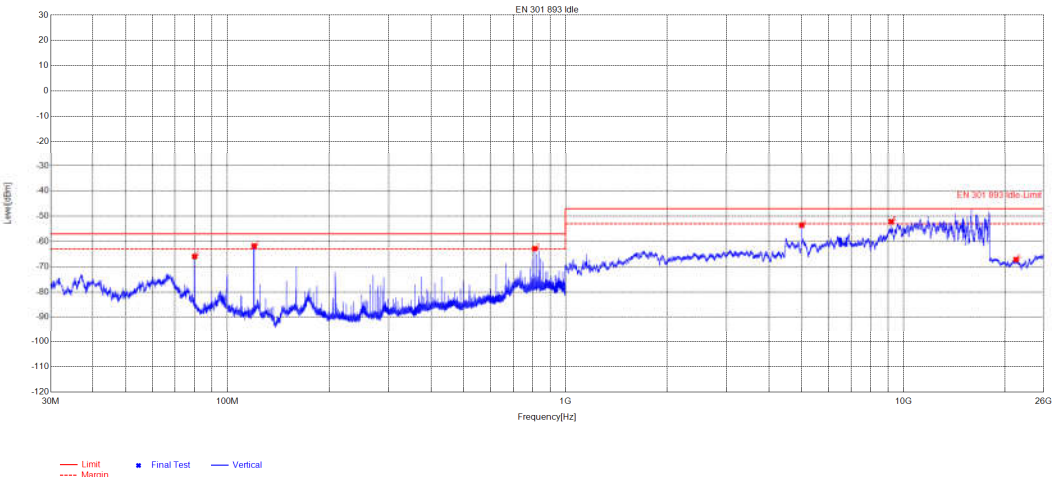


Suspected List

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	120.0205	150	357	-67.87	-57.00	10.87	PASS	Horizontal
2	208.8769	150	357	-68.06	-57.00	11.06	PASS	Horizontal
3	368.6439	150	225	-68.67	-57.00	11.67	PASS	Horizontal
4	1155.0462	150	1	-63.72	-47.00	16.72	PASS	Horizontal
5	4999.92	150	131	-51.01	-47.00	4.01	PASS	Horizontal
6	21821.1821	150	1	-66.64	-47.00	19.64	PASS	Horizontal

Mode	802.11 be(EHT80 )Receiving	Remark	/
Band	\	Channel	5775MHz
Temperature		Humidity	
Ant		Engineer	chenjun

Test Graph



Suspected List

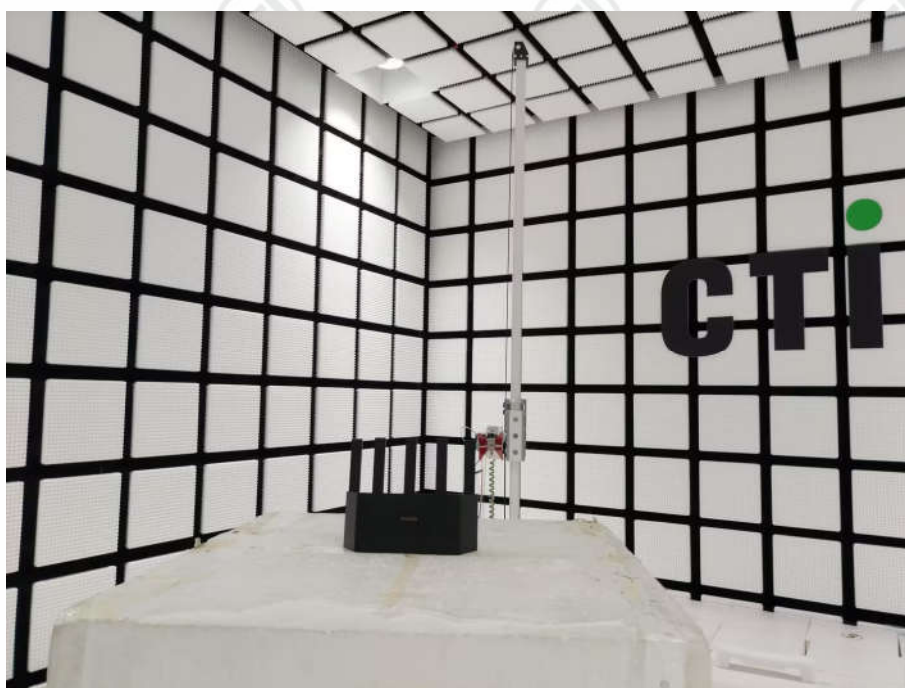
Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	80.006	150	3	-65.92	-57.00	8.92	PASS	Vertical
2	119.972	150	3	-61.75	-57.00	4.75	PASS	Vertical
3	810.986	150	3	-62.82	-57.00	5.82	PASS	Vertical
4	4999.92	150	75	-53.54	-47.00	6.54	PASS	Vertical
5	9199.768	150	174	-52.15	-47.00	5.15	PASS	Vertical
6	21533.9534	150	57	-67.16	-47.00	20.16	PASS	Vertical



## APPENDIX 1 PHOTOGRAPHS OF TEST SETUP



**Radiated spurious emission Test Setup-1(Below 1GHz)**



**Radiated spurious emission Test Setup-2(Above 1GHz)**



**Radiated spurious emission Test Setup-3(Above 18GHz)**

## APPENDIX 2 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32Q81740301 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*