

# FCC Test Report

**Report No.** : 1812C50131012502

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**Applicant** : SprintRay Inc

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**Address** : 2710 Media Center Dr, Suite 100A, Los Angeles, CA 90065-1700, USA

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**Product Name** : Midas

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**Report Date** : 2025-05-14

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## Shenzhen Anbotek Compliance Laboratory Limited

**Shenzhen Anbotek Compliance Laboratory Limited**

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# Contents

1. General Information.....	5
1.1. Client Information .....	5
1.2. Description of Device (EUT).....	5
1.3. Auxiliary Equipment Used During Test.....	6
1.4. Operation channel list.....	7
1.5. Description of Test Modes.....	8
1.6. Measurement Uncertainty .....	9
1.7. Test Summary .....	9
1.8. Description of Test Facility .....	10
1.9. Disclaimer.....	10
1.10. Test Equipment List.....	11
2. Conducted Emission at AC power line .....	12
2.1. EUT Operation .....	12
2.2. Test Setup .....	12
2.3. Test Data.....	13
3. Maximum conducted output power.....	15
3.1. EUT Operation .....	15
3.2. Test Setup .....	16
3.3. Test Data.....	16
4. Undesirable emission limits (below 1GHz) .....	21
4.1. EUT Operation .....	23
4.2. Test Setup .....	23
4.3. Test Data.....	24
APPENDIX I -- TEST SETUP PHOTOGRAPH .....	26
APPENDIX II -- EXTERNAL PHOTOGRAPH .....	26
APPENDIX III -- INTERNAL PHOTOGRAPH.....	26



# TEST REPORT

Applicant : SprintRay Inc  
Manufacturer : Zhejiang Xunshi Technology Co., Ltd  
Product Name : Midas  
Model No. : SRP2304A  
Trade Mark :   
Rating(s) : Input: 100-240VAC, 50/60Hz, 140W


**Test Standard(s) :** 47 CFR Part 15E  
ANSI C63.10-2020  
KDB 789033 D02 General UNII Test Procedures New Rules v02r01  
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02  
KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02  
KDB 662911 D01 Multiple Transmitter Output v02r01

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: 2025-03-31

Date of Test: 2025-03-31 to 2025-04-15

Prepared By:



(Haidi Huang)

Approved & Authorized Signer:



(Kingkong Jin)

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### Revision History

Report Version	Description	Issued Date
R00	Original Issue. (Note 1)	2025-01-16
R01	Original Issue. (Note 2)	2025-05-14

**Note 1:**

This is a Class II application which was based on the original report 18220WC40089602. The difference between the original device and current one described as following:

1. Change the wiring board in the EUT.
2. Change the Test Setup Photograph, External Photograph, Internal Photograph.
3. Change the Address of the Factory.

Based on the change, only Conducted emissions, Radiated spurious emissions were retested. Other tests were validated against the worst Modes of the original data.

**Note 2:**

This is a Class II application which was based on the original report 1812C40179312502. The difference between the original device and current one described as following:

1. Speakers are added to EUT.
2. Update a set of power supplies from a new power supply manufacturer.
3. Update internal photograph.

The changes are not related with the other RF parameters, only conducted emission and spurious emission(below 1GHz) were retested.




## 1. General Information

### 1.1. Client Information

Applicant	:	SprintRay Inc
Address	:	2710 Media Center Dr, Suite 100A, Los Angeles, CA 90065-1700, USA
Manufacturer	:	Zhejiang Xunshi Technology Co., Ltd
Address	:	4 / F, building 2, Qihang building, science and Technology Park, 586 Xihuan Road, Kebei Economic Development Zone, Keqiao District, Shaoxing City, China
Factory	:	Zhejiang Xunshi Technology Co., Ltd
Address	:	No.79 Shuguang Road, Kebei Industrial Zone, Qixian Sub-district, Keqiao District, Shaoxing, Zhejiang, 312000, China

### 1.2. Description of Device (EUT)

Product Name	:	Midas
Model No.	:	SRP2304A
Trade Mark	:	
Test Power Supply	:	AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
<b>RF Specification</b>		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz;
	:	802.11n(HT40)/ac(VHT40)/ax(HEW40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz;
	:	802.11ac(VHT80)/ax(HEW80): U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2C: 5530MHz to 5610MHz; U-NII Band 3: 5775MHz
Number of Channel	:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): U-NII Band 1: 4; U-NII Band 2A: 4; U-NII Band 2C: 11; U-NII Band 3: 5;
	:	802.11n(HT40)/ac(VHT40)/ax(HEW40):

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	U-NII Band 1: 2; U-NII Band 2A: 2; U-NII Band 2C: 5; U-NII Band 3: 2;
	802.11ac(VHT80)/ax(HEW80): U-NII Band 1: 1; U-NII Band 2A: 1; U-NII Band 2C: 2; U-NII Band 3: 1
Modulation Type	: 802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	: PCB Antenna
Antenna Gain(Peak)	: WiFi 5.2G ANT1: 3.92dBi WiFi 5.2G ANT2: 3.92dBi WiFi 5.3G ANT1: 4dBi WiFi 5.3G ANT2: 4dBi WiFi 5.6G ANT1: 3.31dBi WiFi 5.6G ANT2: 3.31dBi WiFi 5.8G ANT1: 3.35dBi WiFi 5.8G ANT2: 3.35dBi
Directional antenna gain	: WiFi 5.2G: 6.93dBi WiFi 5.3G: 7.01dBi WiFi 5.6G: 6.32dBi WiFi 5.8G: 6.36dBi
Device Type	: <input type="checkbox"/> Outdoor AP <input type="checkbox"/> Indoor AP <input type="checkbox"/> Point-to-point AP <input checked="" type="checkbox"/> Client
TPC Function	: <input type="checkbox"/> With TPC <input checked="" type="checkbox"/> Without TPC
DFS Type	: <input checked="" type="checkbox"/> Slave without radar detection <input type="checkbox"/> Slave with radar detection <input type="checkbox"/> Master
<b>Remark:</b> (1) All of the RF specification are provided by customer. (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. (3) Only 802.11n(HT20)/ac(VHT20)/ax(HEW20), 802.11n(HT40)/ac(VHT40)/ax(HEW40) and 802.11ac(VHT80)/ax(HEW80) support MIMO. (4) Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$ dBi	

**1.3. Auxiliary Equipment Used During Test**

Title	Manufacturer	Model No.	Serial No.
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### 1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/

Operation Band: U-NII Band 2A

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310	/	/
60	5300	/	/	/	/
64	5320	/	/	/	/

Operation Band: U-NII Band 2C

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	/	/
112	5560	126	5630	/	/
116	5580	134	5670	/	/
120	5600	/	/	/	/
124	5620	/	/	/	/
128	5640	/	/	/	/
132	5660	/	/	/	/
136	5680	/	/	/	/
140	5700	/	/	/	/

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Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

**1.5. Description of Test Modes**

Pretest Modes	Descriptions
TM1	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM3	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM4	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM5	Keep the EUT works in normal operating mode and connect to companion device

Note: 802.11ax mode only support full resource unit size.





**1.6. Measurement Uncertainty**

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Conducted Output Power	0.76dB
Radiated emissions (Below 30MHz)	3.53dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

**1.7. Test Summary**

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3,4	P
Maximum conducted output power	Mode1,2,3,4	P
Undesirable emission limits (below 1GHz)	Mode1,2,3,4	P
Note: P: Pass N: N/A, not applicable		

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## 1.8. Description of Test Facility

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

### **FCC-Registration No.:434132**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

### **ISED-Registration No.: 8058A**

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

### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.  
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

## 1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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### 1.10. Test Equipment List

Conducted Emission at AC power line						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	2025-09-08
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2025-01-13	2026-01-12
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
4	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08

Maximum conducted output power						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2023-10-16	2024-10-15
					2024-10-14	2025-10-13
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
					2024-09-09	2025-09-08
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

Undesirable emission limits (below 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	101481	2025-01-14	2026-01-13
2	Pre-amplifier	SONOMA	310N	186860	2025-01-14	2026-01-13
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2024-09-12	2025-09-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

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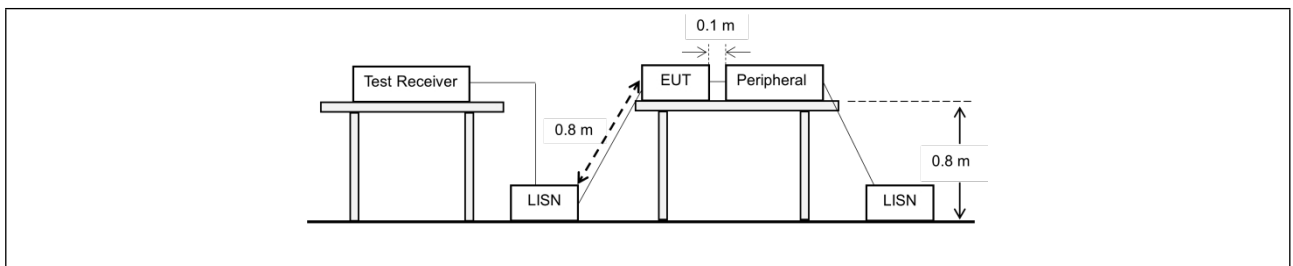
## 2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.10-2020 section 6.2		

### 2.1. EUT Operation

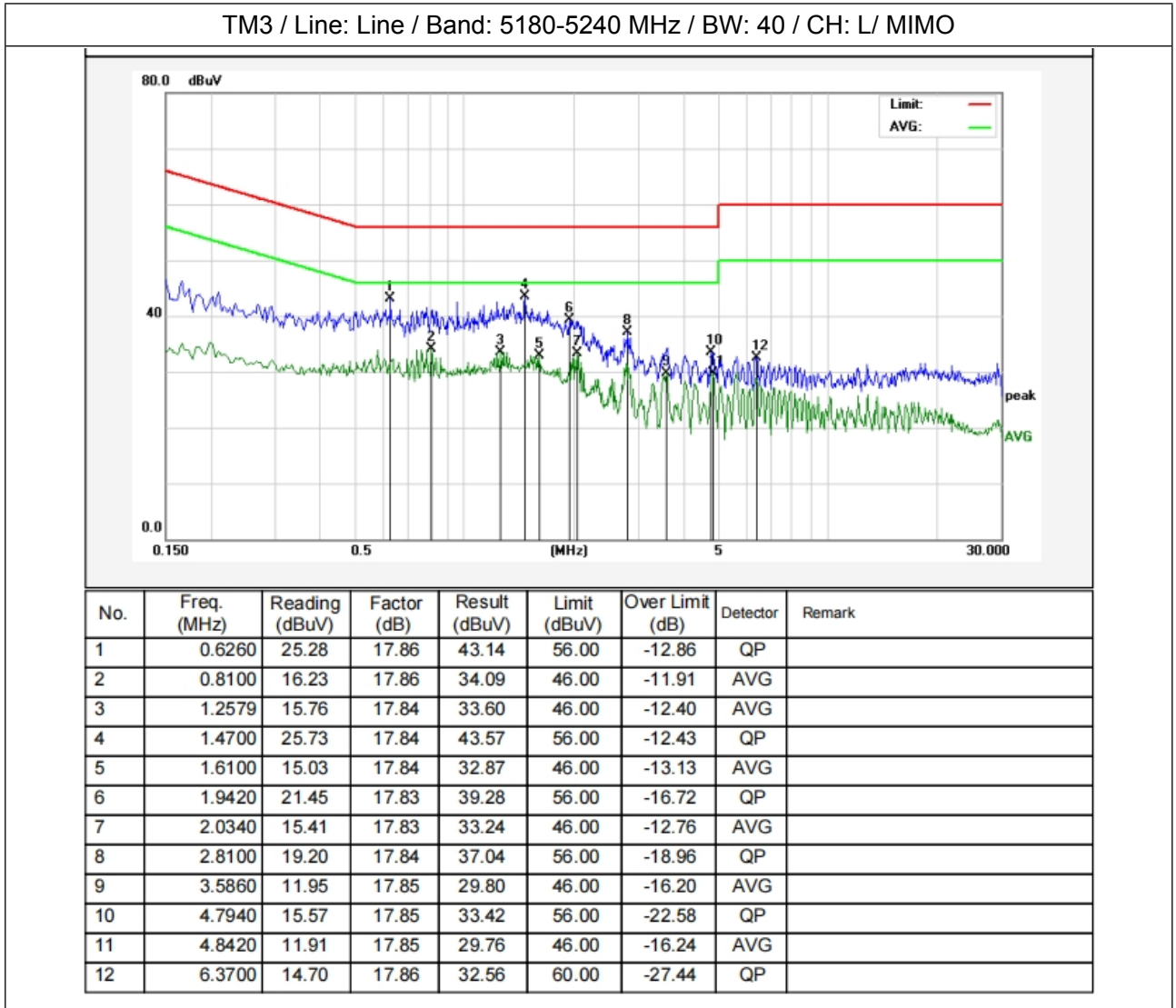
Operating Environment:	
Test mode:	<p>1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p>

### 2.2. Test Setup



**2.3. Test Data**

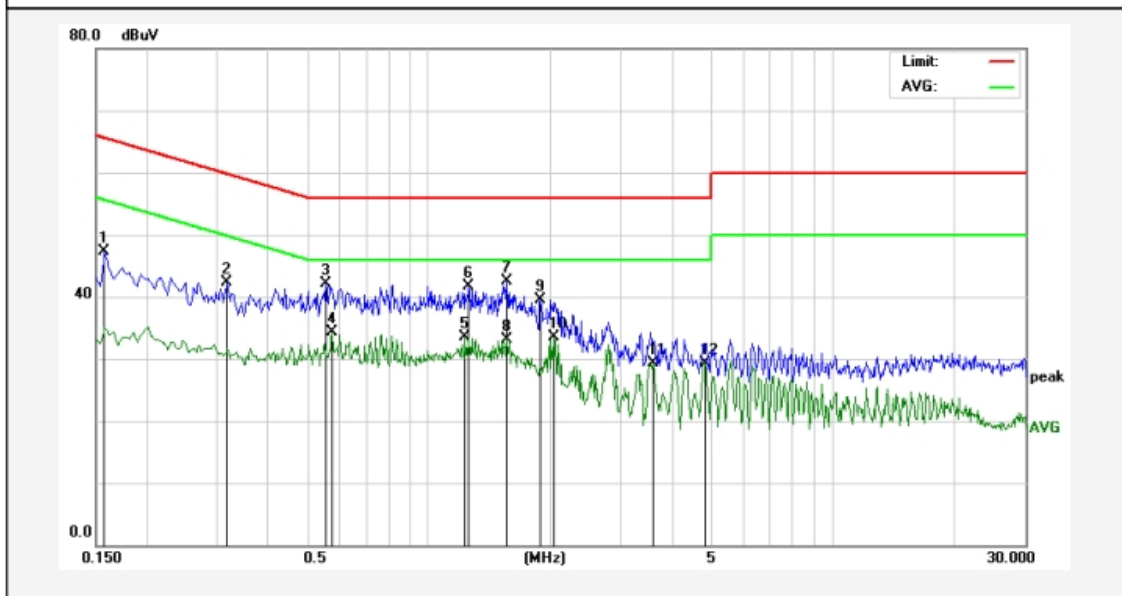
Temperature:	24.7 °C	Humidity:	48.1 %	Atmospheric Pressure:	101 kPa
Test Power Supply: AC 120V/60Hz					



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Temperature:	24.7 °C	Humidity:	48.1 %	Atmospheric Pressure:	101 kPa
Test Power Supply: AC 120V/60Hz					

TM3 / Line: Neutral / Band: 5180-5240 MHz / BW: 40 / CH: L/ MIMO



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	29.44	17.83	47.27	65.56	-18.29	QP	
2	0.3180	24.53	17.83	42.36	59.76	-17.40	QP	
3	0.5580	24.34	17.86	42.20	56.00	-13.80	QP	
4	0.5780	16.39	17.86	34.25	46.00	-11.75	AVG	
5	1.2340	15.68	17.84	33.52	46.00	-12.48	AVG	
6	1.2579	23.86	17.84	41.70	56.00	-14.30	QP	
7	1.5620	24.62	17.84	42.46	56.00	-13.54	QP	
8	1.5620	15.36	17.84	33.20	46.00	-12.80	AVG	
9	1.8900	21.74	17.83	39.57	56.00	-16.43	QP	
10	2.0340	15.77	17.83	33.60	46.00	-12.40	AVG	
11	3.5860	11.39	17.85	29.24	46.00	-16.76	AVG	
12	4.8420	11.45	17.85	29.30	46.00	-16.70	AVG	

**Note:**

1. Only record the worst data (802.11ax(HEW20) MIMO) in the report.
2. Result(dBμV) = Reading(dBμV) + Factor(dB);  
Over Limit(dB) = Result(dBμV) - Limit(dBμV)

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### 3. Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	<p>For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.</p>
Test Method:	ANSI C63.10-2013, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

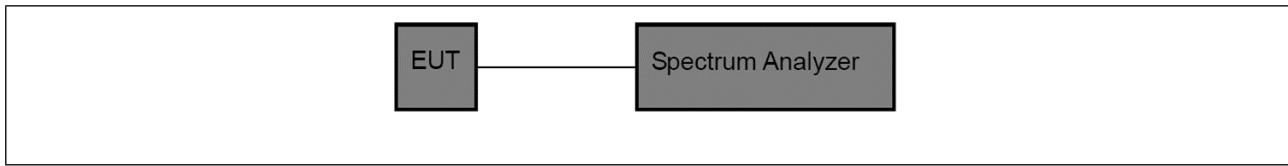
#### 3.1. EUT Operation

Operating Environment:	
Test mode:	<p>1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only</p>

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the data of worst case is recorded in the report.

### 3.2. Test Setup



### 3.3. Test Data

Temperature:	24.6 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa
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Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	13.31	93.29	0.30	13.61	≤23.98	PASS
11A	Ant2	5180	13.32	93.33	0.30	13.62	≤23.98	PASS
11A	Ant1	5200	13.08	93.33	0.30	13.38	≤23.98	PASS
11A	Ant2	5200	13.52	93.29	0.30	13.82	≤23.98	PASS
11A	Ant1	5240	13.12	93.33	0.30	13.42	≤23.98	PASS
11A	Ant2	5240	12.52	93.29	0.30	12.82	≤23.98	PASS
11A	Ant1	5260	13.23	93.33	0.30	13.53	≤23.98	PASS
11A	Ant2	5260	12.17	93.33	0.30	12.47	≤23.98	PASS
11A	Ant1	5300	12.68	93.33	0.30	12.98	≤23.98	PASS
11A	Ant2	5300	10.77	93.29	0.30	11.07	≤23.98	PASS
11A	Ant1	5320	12.45	93.29	0.30	12.75	≤23.98	PASS
11A	Ant2	5320	10.65	93.29	0.30	10.95	≤23.98	PASS
11A	Ant1	5500	14.28	93.29	0.30	14.58	≤23.98	PASS
11A	Ant2	5500	13.40	93.33	0.30	13.70	≤23.98	PASS
11A	Ant1	5580	12.47	93.96	0.27	12.74	≤23.98	PASS
11A	Ant2	5580	12.45	93.29	0.30	12.75	≤23.98	PASS
11A	Ant1	5700	12.11	93.29	0.30	12.41	≤23.98	PASS
11A	Ant2	5700	12.06	93.33	0.30	12.36	≤23.98	PASS
11A	Ant1	5745	13.24	93.96	0.27	13.51	≤30.00	PASS
11A	Ant2	5745	13.25	93.33	0.30	13.55	≤30.00	PASS
11A	Ant1	5785	13.68	93.29	0.30	13.98	≤30.00	PASS
11A	Ant2	5785	13.70	93.33	0.30	14.00	≤30.00	PASS
11A	Ant1	5825	13.90	93.29	0.30	14.20	≤30.00	PASS
11A	Ant2	5825	13.93	93.29	0.30	14.23	≤30.00	PASS
11N20MIMO	Ant1	5180	14.33	92.91	0.32	14.65	≤23.98	PASS
11N20MIMO	Ant2	5180	14.32	92.91	0.32	14.64	≤23.98	PASS
11N20MIMO	total	5180	---	---	---	17.66	≤23.05	PASS
11N20MIMO	Ant1	5200	14.14	92.91	0.32	14.46	≤23.98	PASS
11N20MIMO	Ant2	5200	14.19	92.91	0.32	14.51	≤23.98	PASS
11N20MIMO	total	5200	---	---	---	17.50	≤23.05	PASS
11N20MIMO	Ant1	5240	13.60	92.86	0.32	13.92	≤23.98	PASS
11N20MIMO	Ant2	5240	13.67	92.91	0.32	13.99	≤23.98	PASS
11N20MIMO	total	5240	---	---	---	16.97	≤23.05	PASS
11N20MIMO	Ant1	5260	12.82	92.91	0.32	13.14	≤23.98	PASS
11N20MIMO	Ant2	5260	12.83	92.91	0.32	13.15	≤23.98	PASS
11N20MIMO	total	5260	---	---	---	16.16	≤22.97	PASS
11N20MIMO	Ant1	5300	12.54	92.91	0.32	12.86	≤23.98	PASS
11N20MIMO	Ant2	5300	12.48	92.91	0.32	12.80	≤23.98	PASS
11N20MIMO	total	5300	---	---	---	15.84	≤22.97	PASS
11N20MIMO	Ant1	5320	12.37	92.91	0.32	12.69	≤23.98	PASS
11N20MIMO	Ant2	5320	12.36	92.86	0.32	12.68	≤23.98	PASS
11N20MIMO	total	5320	---	---	---	15.70	≤22.97	PASS
11N20MIMO	Ant1	5500	13.11	92.86	0.32	13.43	≤23.98	PASS
11N20MIMO	Ant2	5500	13.10	93.57	0.29	13.39	≤23.98	PASS
11N20MIMO	total	5500	---	---	---	16.42	≤23.66	PASS

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11N20MIMO	Ant1	5580	12.22	92.86	0.32	12.54	≤23.98	PASS
11N20MIMO	Ant2	5580	12.28	92.86	0.32	12.60	≤23.98	PASS
11N20MIMO	total	5580	---	---	---	15.58	≤23.66	PASS
11N20MIMO	Ant1	5700	10.95	92.91	0.32	11.27	≤23.98	PASS
11N20MIMO	Ant2	5700	10.94	92.91	0.32	11.26	≤23.98	PASS
11N20MIMO	total	5700	---	---	---	14.28	≤23.66	PASS
11N20MIMO	Ant1	5745	13.09	92.91	0.32	13.41	≤30.00	PASS
11N20MIMO	Ant2	5745	13.12	92.86	0.32	13.44	≤30.00	PASS
11N20MIMO	total	5745	---	---	---	16.44	≤29.64	PASS
11N20MIMO	Ant1	5785	13.59	92.91	0.32	13.91	≤30.00	PASS
11N20MIMO	Ant2	5785	13.60	92.91	0.32	13.92	≤30.00	PASS
11N20MIMO	total	5785	---	---	---	16.93	≤29.64	PASS
11N20MIMO	Ant1	5825	13.75	92.91	0.32	14.07	≤30.00	PASS
11N20MIMO	Ant2	5825	13.80	92.91	0.32	14.12	≤30.00	PASS
11N20MIMO	total	5825	---	---	---	17.11	≤29.64	PASS
11N40MIMO	Ant1	5190	13.99	90.48	0.43	14.42	≤23.98	PASS
11N40MIMO	Ant2	5190	14.30	90.48	0.43	14.73	≤23.98	PASS
11N40MIMO	total	5190	---	---	---	17.59	≤23.05	PASS
11N40MIMO	Ant1	5230	13.62	90.38	0.44	14.06	≤23.98	PASS
11N40MIMO	Ant2	5230	13.73	90.38	0.44	14.17	≤23.98	PASS
11N40MIMO	total	5230	---	---	---	17.13	≤23.05	PASS
11N40MIMO	Ant1	5270	12.29	90.48	0.43	12.72	≤23.98	PASS
11N40MIMO	Ant2	5270	12.29	90.38	0.44	12.73	≤23.98	PASS
11N40MIMO	total	5270	---	---	---	15.74	≤22.97	PASS
11N40MIMO	Ant1	5310	11.77	90.38	0.44	12.21	≤23.98	PASS
11N40MIMO	Ant2	5310	11.72	90.38	0.44	12.16	≤23.98	PASS
11N40MIMO	total	5310	---	---	---	15.20	≤22.97	PASS
11N40MIMO	Ant1	5510	12.60	90.38	0.44	13.04	≤23.98	PASS
11N40MIMO	Ant2	5510	12.58	90.38	0.44	13.02	≤23.98	PASS
11N40MIMO	total	5510	---	---	---	16.04	≤23.66	PASS
11N40MIMO	Ant1	5550	12.01	90.48	0.43	12.44	≤23.98	PASS
11N40MIMO	Ant2	5550	12.01	90.38	0.44	12.45	≤23.98	PASS
11N40MIMO	total	5550	---	---	---	15.46	≤23.66	PASS
11N40MIMO	Ant1	5670	10.51	90.38	0.44	10.95	≤23.98	PASS
11N40MIMO	Ant2	5670	10.57	90.38	0.44	11.01	≤23.98	PASS
11N40MIMO	total	5670	---	---	---	13.99	≤23.66	PASS
11N40MIMO	Ant1	5755	12.87	90.38	0.44	13.31	≤30.00	PASS
11N40MIMO	Ant2	5755	12.84	90.38	0.44	13.28	≤30.00	PASS
11N40MIMO	total	5755	---	---	---	16.31	≤29.64	PASS
11N40MIMO	Ant1	5795	13.46	90.38	0.44	13.90	≤30.00	PASS
11N40MIMO	Ant2	5795	13.41	90.38	0.44	13.85	≤30.00	PASS
11N40MIMO	total	5795	---	---	---	16.89	≤29.64	PASS
11AC20MIMO	Ant1	5180	14.55	92.91	0.32	14.87	≤23.98	PASS
11AC20MIMO	Ant2	5180	14.51	92.96	0.32	14.83	≤23.98	PASS
11AC20MIMO	total	5180	---	---	---	17.86	≤23.05	PASS
11AC20MIMO	Ant1	5200	14.33	92.91	0.32	14.65	≤23.98	PASS
11AC20MIMO	Ant2	5200	14.31	92.91	0.32	14.63	≤23.98	PASS
11AC20MIMO	total	5200	---	---	---	17.65	≤23.05	PASS
11AC20MIMO	Ant1	5240	13.80	92.96	0.32	14.12	≤23.98	PASS
11AC20MIMO	Ant2	5240	13.81	92.96	0.32	14.13	≤23.98	PASS
11AC20MIMO	total	5240	---	---	---	17.14	≤23.05	PASS
11AC20MIMO	Ant1	5260	12.78	92.91	0.32	13.10	≤23.98	PASS
11AC20MIMO	Ant2	5260	12.80	92.91	0.32	13.12	≤23.98	PASS
11AC20MIMO	total	5260	---	---	---	16.12	≤22.97	PASS
11AC20MIMO	Ant1	5300	12.60	92.91	0.32	12.92	≤23.98	PASS
11AC20MIMO	Ant2	5300	12.61	92.96	0.32	12.93	≤23.98	PASS
11AC20MIMO	total	5300	---	---	---	15.94	≤22.97	PASS
11AC20MIMO	Ant1	5320	12.31	92.91	0.32	12.63	≤23.98	PASS
11AC20MIMO	Ant2	5320	12.33	92.91	0.32	12.65	≤23.98	PASS
11AC20MIMO	total	5320	---	---	---	15.65	≤22.97	PASS
11AC20MIMO	Ant1	5500	13.20	92.91	0.32	13.52	≤23.98	PASS
11AC20MIMO	Ant2	5500	13.07	92.96	0.32	13.39	≤23.98	PASS

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11AC20MIMO	total	5500	---	---	---	16.47	≤23.66	PASS
11AC20MIMO	Ant1	5580	12.27	92.96	0.32	12.59	≤23.98	PASS
11AC20MIMO	Ant2	5580	12.26	92.91	0.32	12.58	≤23.98	PASS
11AC20MIMO	total	5580	---	---	---	15.60	≤23.66	PASS
11AC20MIMO	Ant1	5700	10.98	92.91	0.32	11.30	≤23.98	PASS
11AC20MIMO	Ant2	5700	10.97	92.96	0.32	11.29	≤23.98	PASS
11AC20MIMO	total	5700	---	---	---	14.31	≤23.66	PASS
11AC20MIMO	Ant1	5745	13.07	92.91	0.32	13.39	≤30.00	PASS
11AC20MIMO	Ant2	5745	13.10	92.96	0.32	13.42	≤30.00	PASS
11AC20MIMO	total	5745	---	---	---	16.42	≤29.64	PASS
11AC20MIMO	Ant1	5785	13.63	92.96	0.32	13.95	≤30.00	PASS
11AC20MIMO	Ant2	5785	13.69	92.91	0.32	14.01	≤30.00	PASS
11AC20MIMO	total	5785	---	---	---	16.99	≤29.64	PASS
11AC20MIMO	Ant1	5825	13.72	92.91	0.32	14.04	≤30.00	PASS
11AC20MIMO	Ant2	5825	13.71	92.96	0.32	14.03	≤30.00	PASS
11AC20MIMO	total	5825	---	---	---	17.05	≤29.64	PASS
11AC40MIMO	Ant1	5190	14.32	86.84	0.61	14.93	≤23.98	PASS
11AC40MIMO	Ant2	5190	14.31	86.84	0.61	14.92	≤23.98	PASS
11AC40MIMO	total	5190	---	---	---	17.94	≤23.05	PASS
11AC40MIMO	Ant1	5230	13.67	86.67	0.62	14.29	≤23.98	PASS
11AC40MIMO	Ant2	5230	13.67	86.84	0.61	14.28	≤23.98	PASS
11AC40MIMO	total	5230	---	---	---	17.30	≤23.05	PASS
11AC40MIMO	Ant1	5270	12.41	86.84	0.61	13.02	≤23.98	PASS
11AC40MIMO	Ant2	5270	12.38	86.84	0.61	12.99	≤23.98	PASS
11AC40MIMO	total	5270	---	---	---	16.02	≤22.97	PASS
11AC40MIMO	Ant1	5310	11.79	86.67	0.62	12.41	≤23.98	PASS
11AC40MIMO	Ant2	5310	11.81	86.84	0.61	12.42	≤23.98	PASS
11AC40MIMO	total	5310	---	---	---	15.43	≤22.97	PASS
11AC40MIMO	Ant1	5510	12.57	86.84	0.61	13.18	≤23.98	PASS
11AC40MIMO	Ant2	5510	12.59	86.84	0.61	13.20	≤23.98	PASS
11AC40MIMO	total	5510	---	---	---	16.20	≤23.66	PASS
11AC40MIMO	Ant1	5550	12.12	86.67	0.62	12.74	≤23.98	PASS
11AC40MIMO	Ant2	5550	12.09	86.84	0.61	12.70	≤23.98	PASS
11AC40MIMO	total	5550	---	---	---	15.73	≤23.66	PASS
11AC40MIMO	Ant1	5670	10.56	86.84	0.61	11.17	≤23.98	PASS
11AC40MIMO	Ant2	5670	10.56	86.84	0.61	11.17	≤23.98	PASS
11AC40MIMO	total	5670	---	---	---	14.18	≤23.66	PASS
11AC40MIMO	Ant1	5755	12.90	86.67	0.62	13.52	≤30.00	PASS
11AC40MIMO	Ant2	5755	12.92	86.84	0.61	13.53	≤30.00	PASS
11AC40MIMO	total	5755	---	---	---	16.54	≤29.64	PASS
11AC40MIMO	Ant1	5795	13.46	86.84	0.61	14.07	≤30.00	PASS
11AC40MIMO	Ant2	5795	13.44	86.84	0.61	14.05	≤30.00	PASS
11AC40MIMO	total	5795	---	---	---	17.07	≤29.64	PASS
11AC80MIMO	Ant1	5210	13.85	76.74	1.15	15.00	≤23.98	PASS
11AC80MIMO	Ant2	5210	13.88	76.19	1.18	15.06	≤23.98	PASS
11AC80MIMO	total	5210	---	---	---	18.04	≤23.05	PASS
11AC80MIMO	Ant1	5290	12.31	76.19	1.18	13.49	≤23.98	PASS
11AC80MIMO	Ant2	5290	12.26	76.19	1.18	13.44	≤23.98	PASS
11AC80MIMO	total	5290	---	---	---	16.48	≤22.97	PASS
11AC80MIMO	Ant1	5530	12.80	76.19	1.18	13.98	≤23.98	PASS
11AC80MIMO	Ant2	5530	12.78	76.74	1.15	13.93	≤23.98	PASS
11AC80MIMO	total	5530	---	---	---	16.97	≤23.66	PASS
11AC80MIMO	Ant1	5610	11.45	76.19	1.18	12.63	≤23.98	PASS
11AC80MIMO	Ant2	5610	11.54	76.19	1.18	12.72	≤23.98	PASS
11AC80MIMO	total	5610	---	---	---	15.69	≤23.66	PASS
11AC80MIMO	Ant1	5775	13.08	76.19	1.18	14.26	≤30.00	PASS
11AC80MIMO	Ant2	5775	13.04	76.19	1.18	14.22	≤30.00	PASS
11AC80MIMO	total	5775	---	---	---	17.25	≤29.64	PASS
11AX20MIMO	Ant1	5180	14.97	91.07	0.41	15.38	≤23.98	PASS
11AX20MIMO	Ant2	5180	14.94	91.07	0.41	15.35	≤23.98	PASS
11AX20MIMO	total	5180	---	---	---	18.38	≤23.05	PASS
11AX20MIMO	Ant1	5200	14.75	73.38	1.34	16.09	≤23.98	PASS

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11AX20MIMO	Ant2	5200	14.64	91.07	0.41	15.05	≤23.98	PASS
11AX20MIMO	total	5200	---	---	---	18.61	≤23.05	PASS
11AX20MIMO	Ant1	5240	14.29	91.07	0.41	14.70	≤23.98	PASS
11AX20MIMO	Ant2	5240	14.40	91.07	0.41	14.81	≤23.98	PASS
11AX20MIMO	total	5240	---	---	---	17.77	≤23.05	PASS
11AX20MIMO	Ant1	5260	13.86	91.07	0.41	14.27	≤23.98	PASS
11AX20MIMO	Ant2	5260	13.87	91.07	0.41	14.28	≤23.98	PASS
11AX20MIMO	total	5260	---	---	---	17.29	≤22.97	PASS
11AX20MIMO	Ant1	5300	13.56	91.07	0.41	13.97	≤23.98	PASS
11AX20MIMO	Ant2	5300	13.57	91.07	0.41	13.98	≤23.98	PASS
11AX20MIMO	total	5300	---	---	---	16.99	≤22.97	PASS
11AX20MIMO	Ant1	5320	13.58	91.89	0.37	13.95	≤23.98	PASS
11AX20MIMO	Ant2	5320	13.51	91.07	0.41	13.92	≤23.98	PASS
11AX20MIMO	total	5320	---	---	---	16.95	≤22.97	PASS
11AX20MIMO	Ant1	5500	14.44	91.07	0.41	14.85	≤23.98	PASS
11AX20MIMO	Ant2	5500	14.41	91.07	0.41	14.82	≤23.98	PASS
11AX20MIMO	total	5500	---	---	---	17.85	≤23.66	PASS
11AX20MIMO	Ant1	5580	13.46	91.89	0.37	13.83	≤23.98	PASS
11AX20MIMO	Ant2	5580	13.56	91.89	0.37	13.93	≤23.98	PASS
11AX20MIMO	total	5580	---	---	---	16.89	≤23.66	PASS
11AX20MIMO	Ant1	5700	12.06	91.89	0.37	12.43	≤23.98	PASS
11AX20MIMO	Ant2	5700	12.12	91.07	0.41	12.53	≤23.98	PASS
11AX20MIMO	total	5700	---	---	---	15.49	≤23.66	PASS
11AX20MIMO	Ant1	5745	14.23	91.07	0.41	14.64	≤30.00	PASS
11AX20MIMO	Ant2	5745	14.31	91.07	0.41	14.72	≤30.00	PASS
11AX20MIMO	total	5745	---	---	---	17.69	≤29.64	PASS
11AX20MIMO	Ant1	5785	15.00	91.89	0.37	15.37	≤30.00	PASS
11AX20MIMO	Ant2	5785	14.98	91.07	0.41	15.39	≤30.00	PASS
11AX20MIMO	total	5785	---	---	---	18.39	≤29.64	PASS
11AX20MIMO	Ant1	5825	14.99	91.07	0.41	15.40	≤30.00	PASS
11AX20MIMO	Ant2	5825	15.02	91.07	0.41	15.43	≤30.00	PASS
11AX20MIMO	total	5825	---	---	---	18.43	≤29.64	PASS
11AX40MIMO	Ant1	5190	13.57	84.38	0.74	14.31	≤23.98	PASS
11AX40MIMO	Ant2	5190	13.69	84.38	0.74	14.43	≤23.98	PASS
11AX40MIMO	total	5190	---	---	---	17.38	≤23.05	PASS
11AX40MIMO	Ant1	5230	12.75	84.38	0.74	13.49	≤23.98	PASS
11AX40MIMO	Ant2	5230	12.88	84.38	0.74	13.62	≤23.98	PASS
11AX40MIMO	total	5230	---	---	---	16.57	≤23.05	PASS
11AX40MIMO	Ant1	5270	13.55	84.38	0.74	14.29	≤23.98	PASS
11AX40MIMO	Ant2	5270	13.55	84.38	0.74	14.29	≤23.98	PASS
11AX40MIMO	total	5270	---	---	---	17.30	≤22.97	PASS
11AX40MIMO	Ant1	5310	12.93	84.38	0.74	13.67	≤23.98	PASS
11AX40MIMO	Ant2	5310	13.05	84.38	0.74	13.79	≤23.98	PASS
11AX40MIMO	total	5310	---	---	---	16.74	≤22.97	PASS
11AX40MIMO	Ant1	5510	13.92	84.38	0.74	14.66	≤23.98	PASS
11AX40MIMO	Ant2	5510	13.90	84.38	0.74	14.64	≤23.98	PASS
11AX40MIMO	total	5510	---	---	---	17.66	≤23.66	PASS
11AX40MIMO	Ant1	5550	13.37	84.38	0.74	14.11	≤23.98	PASS
11AX40MIMO	Ant2	5550	13.35	84.38	0.74	14.09	≤23.98	PASS
11AX40MIMO	total	5550	---	---	---	17.11	≤23.66	PASS
11AX40MIMO	Ant1	5670	11.80	84.38	0.74	12.54	≤23.98	PASS
11AX40MIMO	Ant2	5670	11.86	84.38	0.74	12.60	≤23.98	PASS
11AX40MIMO	total	5670	---	---	---	15.58	≤23.66	PASS
11AX40MIMO	Ant1	5755	14.19	84.38	0.74	14.93	≤30.00	PASS
11AX40MIMO	Ant2	5755	14.18	84.38	0.74	14.92	≤30.00	PASS
11AX40MIMO	total	5755	---	---	---	17.94	≤29.64	PASS
11AX40MIMO	Ant1	5795	14.71	84.38	0.74	15.45	≤30.00	PASS
11AX40MIMO	Ant2	5795	14.73	84.38	0.74	15.47	≤30.00	PASS
11AX40MIMO	total	5795	---	---	---	18.47	≤29.64	PASS
11AX80MIMO	Ant1	5210	12.97	74.36	1.29	14.26	≤23.98	PASS
11AX80MIMO	Ant2	5210	12.95	74.36	1.29	14.24	≤23.98	PASS
11AX80MIMO	total	5210	---	---	---	17.26	≤23.05	PASS

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11AX80MIMO	Ant1	5290	13.54	74.36	1.29	14.83	≤23.98	PASS
11AX80MIMO	Ant2	5290	13.55	74.36	1.29	14.84	≤23.98	PASS
11AX80MIMO	total	5290	---	---	---	17.85	≤22.97	PASS
11AX80MIMO	Ant1	5530	12.98	74.36	1.29	14.27	≤23.98	PASS
11AX80MIMO	Ant2	5530	12.91	74.36	1.29	14.20	≤23.98	PASS
11AX80MIMO	total	5530	---	---	---	17.25	≤23.66	PASS
11AX80MIMO	Ant1	5610	11.64	74.36	1.29	12.93	≤23.98	PASS
11AX80MIMO	Ant2	5610	11.66	74.36	1.29	12.95	≤23.98	PASS
11AX80MIMO	total	5610	---	---	---	15.95	≤23.66	PASS
11AX80MIMO	Ant1	5775	14.23	74.36	1.29	15.52	≤30.00	PASS
11AX80MIMO	Ant2	5775	14.19	74.36	1.29	15.48	≤30.00	PASS
11AX80MIMO	total	5775	---	---	---	18.51	≤29.64	PASS

Note: For pre-scan, the result is equal to original, so the original data is referenced.

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#### 4. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)																								
Test Limit:	<p>Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.</p> <p>Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Field strength (microvolts/meter)</th> <th>Measurement distance (meters)</th> </tr> </thead> <tbody> <tr> <td>0.009-0.490</td> <td>2400/F(kHz)</td> <td>300</td> </tr> <tr> <td>0.490-1.705</td> <td>24000/F(kHz)</td> <td>30</td> </tr> <tr> <td>1.705-30.0</td> <td>30</td> <td>30</td> </tr> <tr> <td>30-88</td> <td>100 **</td> <td>3</td> </tr> <tr> <td>88-216</td> <td>150 **</td> <td>3</td> </tr> <tr> <td>216-960</td> <td>200 **</td> <td>3</td> </tr> <tr> <td>Above 960</td> <td>500</td> <td>3</td> </tr> </tbody> </table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																							
0.009-0.490	2400/F(kHz)	300																							
0.490-1.705	24000/F(kHz)	30																							
1.705-30.0	30	30																							
30-88	100 **	3																							
88-216	150 **	3																							
216-960	200 **	3																							
Above 960	500	3																							
Test Method:	ANSI C63.10-2020, section 12.7.4, 12.7.5																								
Procedure:	<p>Below 1GHz:</p> <p>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p>																								

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h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low.

The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Above 1GHz:

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low.

The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4. The disturbance above 18GHz were very low and the harmonics were the

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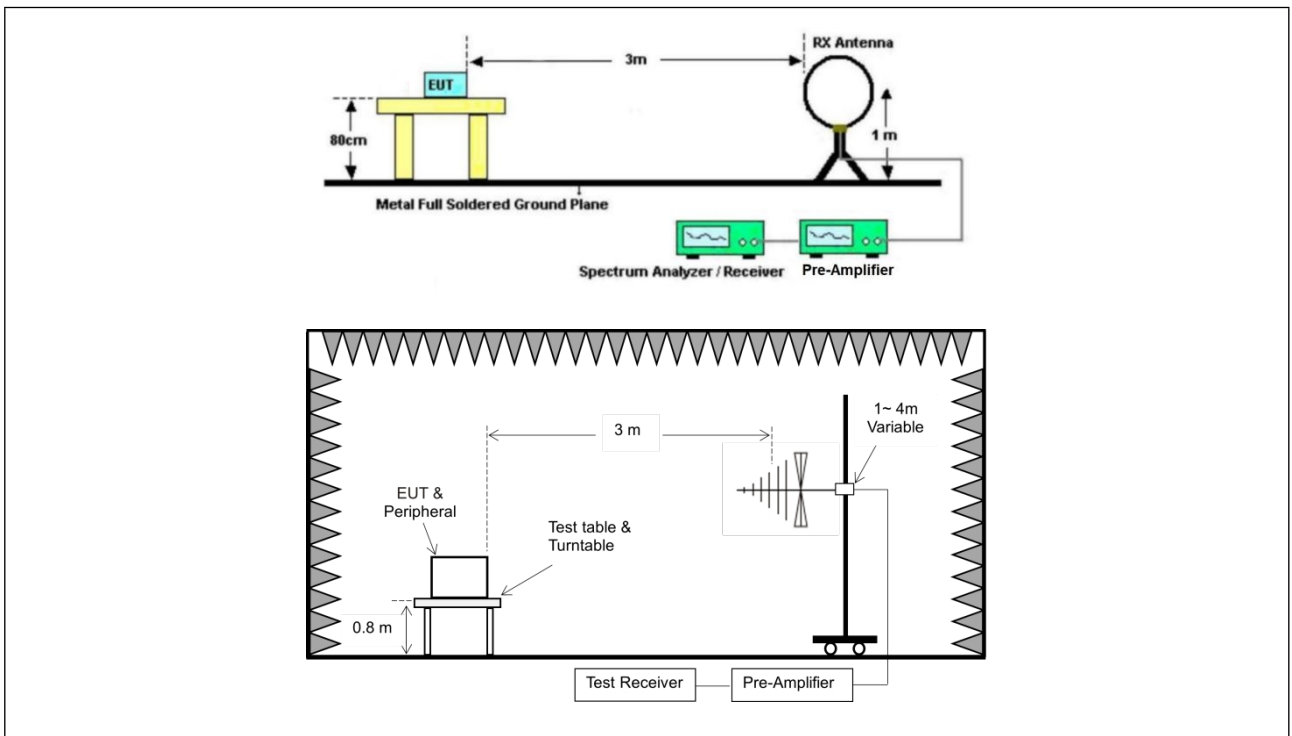


highest point could be found when testing, so only the above harmonics had been displayed.

### 4.1. EUT Operation

Operating Environment:	
Test mode:	<p>1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p>

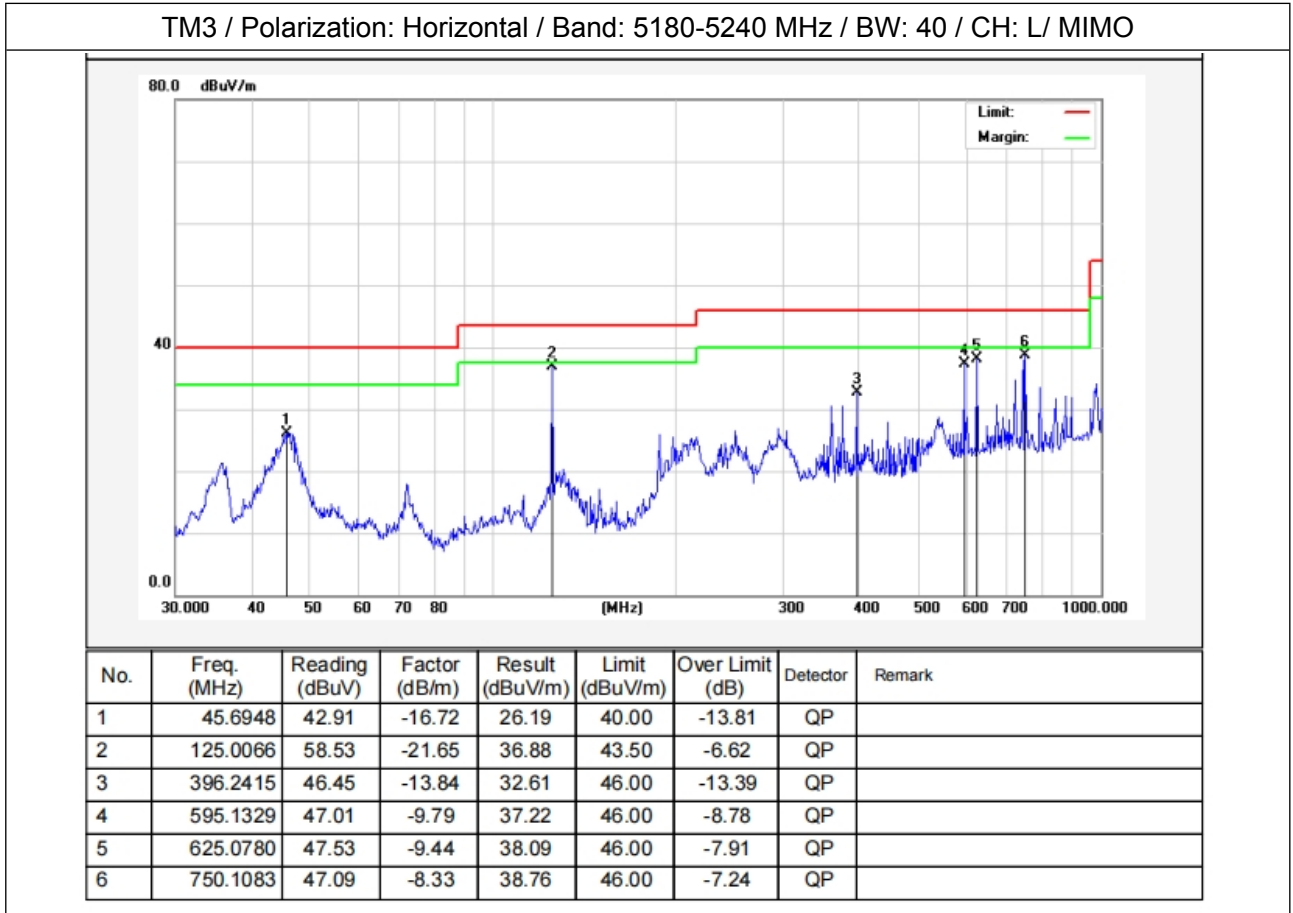
### 4.2. Test Setup



**4.3. Test Data**

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

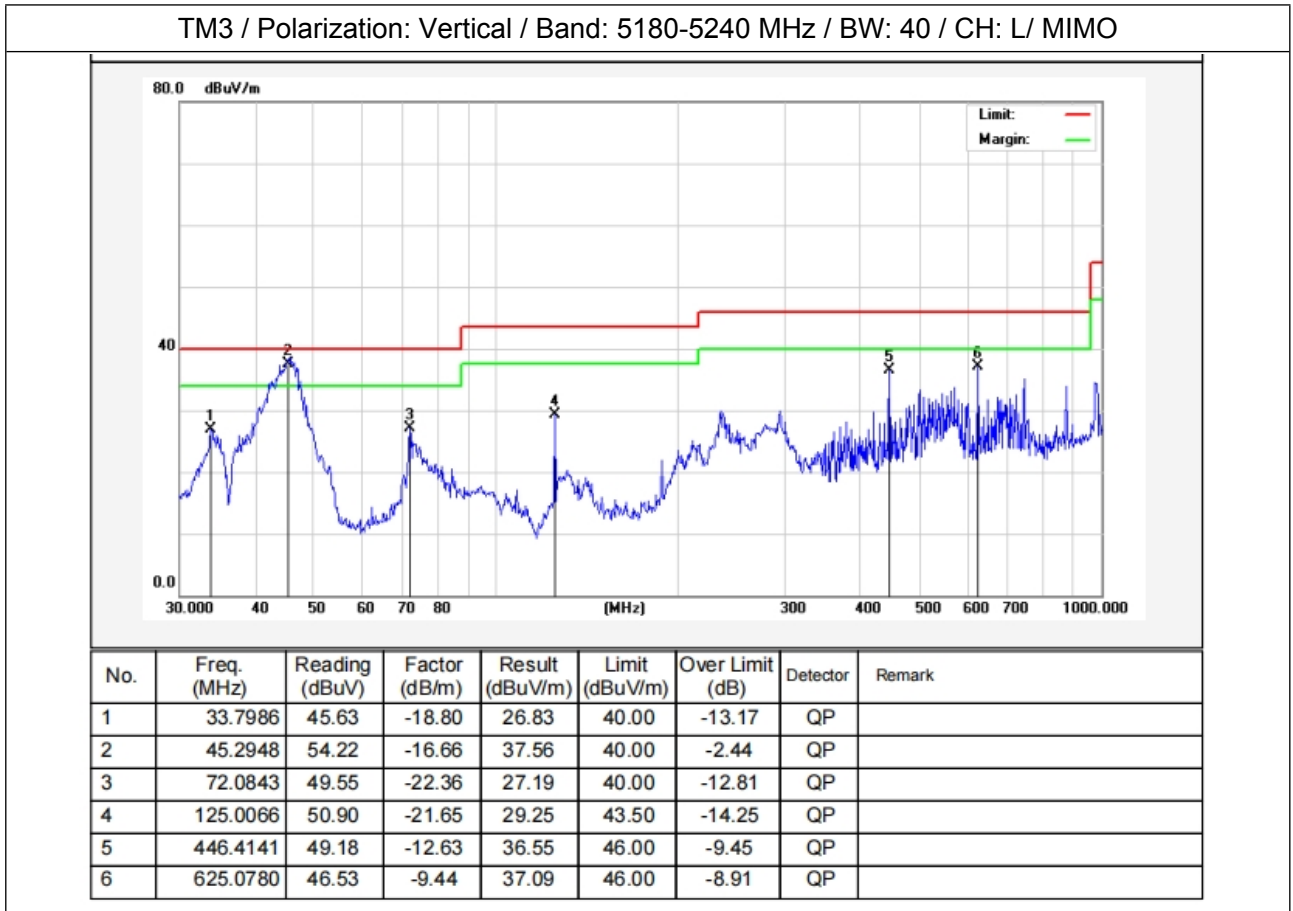
Temperature:	24.6 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa
Test Power Supply: AC 120V/60Hz					



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Temperature:	24.6 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa
Test Power Supply: AC 120V/60Hz					



**Note:**

1. Only record the worst data (802.11ax(HEW20) MIMO) in the report.
2.  $Result(dBuV/m) = Reading(dBuV) + Factor(dB/m);$   
 $Over\ Limit(dB) = Result(dBuV/m) - Limit(dBuV/m)$

**APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

**APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

**APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

