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FCC Test Report

Report No.	: 1813C50044712504
Applicant	: YABER TECHNOLOGIES CO., LIMITED
Address	Room 406,4 Floor,B Building,BanTian International Center,HuanCheng South Road,BanTian Street, LongGang District,Shenzhen, 518000, China
Product Name	: Projector
Report Date	: Mar. 28, 2025

Shenzhen Anbotek Compliance Laboratory Limited







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TEST REPORT

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 Client Without DFS New Rules v01r02 KDB 662911 D01 Multiple Transmitter Output v02r01
Rating(s)	:	Input: 100-240V~, 50/60Hz, 110W
Trade Mark	:	Yaber
Model No.	:	L2 Plus, G1, G1 Pro, G1s, G2, G2 Pro, G2s, K12 Pro, K12s, K13, K13s, K13 Pro, P65, P65 Pro, P65s, A1, A1 Pro, A1s, A2, A2 Pro, A2s, A3, A3 Pro, A3s, L2, L2 Pro, L2s, L3, L3 Pro, L3s, P61 Pro, P61s, S28 Pro, S28s, X8s, X9 Pro, X10, X10 Pro, X10s, X11, X11 Pro, X11s, TP1, TP1 Pro, TP1s, TP2, TP2 Pro, TP2s, A1, A1 Pro, A1s, A2, A2 Pro, A2s, A3, A3 Pro, A3s
Product Name	:	Projector
Manufacturer	:	YABER TECHNOLOGIES CO.,LIMITED
Applicant	:	YABER TECHNOLOGIES CO., LIMITED

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:

Feb. 12, 2025

Date of Test:

Feb. 12, 2025 to Mar. 28, 2025

lene Chen

(Lene Chen)

Ktugo

(Hugo Chen)

Prepared By:

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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Hotline 400-003-0500 www.anbotek.com



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 28, 2025

Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel:(86)0755-26066440 Email: service@anbotek.com

Hotline 400-003-0500 www.anbotek.com



1. General Information

1.1. Client Information

Applicant	:	YABER TECHNOLOGIES CO.,LIMITED
Address	•	Room 406,4 Floor,B Building,BanTian International Center,HuanCheng South Road,BanTian Street, LongGang District,Shenzhen, 518000, China
Manufacturer	:	YABER TECHNOLOGIES CO.,LIMITED
Address	:	Room 406,4 Floor,B Building,BanTian International Center,HuanCheng South Road,BanTian Street, LongGang District,Shenzhen, 518000, China
Factory	:	YABER TECHNOLOGIES CO.,LIMITED
Address	:	Room 406,4 Floor,B Building,BanTian International Center,HuanCheng South Road,BanTian Street, LongGang District,Shenzhen, 518000, China

1.2. Description of Device (EUT)

Product Name	:	Projector
Model No.	:	L2 Plus, G1, G1 Pro, G1s, G2, G2 Pro, G2s, K12 Pro, K12s, K13, K13s, K13 Pro, P65, P65 Pro, P65s, A1, A1 Pro, A1s, A2, A2 Pro, A2s, A3, A3 Pro, A3s, L2, L2 Pro, L2s, L3, L3 Pro, L3s, P61 Pro, P61s, S28 Pro, S28s, X8s, X9 Pro, X10, X10 Pro, X10s, X11, X11 Pro, X11s, TP1, TP1 Pro, TP1s, TP2, TP2 Pro, TP2s, A1, A1 Pro, A1s, A2, A2 Pro, A2s, A3, A3 Pro, A3s (Note: All samples are the same except the model name, so we prepare "L2 Plus" for test only.)
Trade Mark	:	Yaber
Test Power Supply	:	AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
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
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

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		802.11n(HT40)/ac(VHT40)/ax(HEW40):
		U-NII Band 1: 2;
		U-NII Band 2A: 2;
		U-NII Band 2C: 5
		802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM);
Modulation Type		802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);
modulation Type	•	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
		802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Device Type	:	Indoor AP
DFS Type	:	Slave without radar detection
TPC Function	:	Without TPC
Antenna Type	:	ANT1: FPC Antenna
Аптенна туре		ANT2: FPC Antenna
		WiFi 5.2G ANT1: 6.07dBi
		WiFi 5.2G ANT2: 4.12dBi
		WiFi 5.3G ANT1: 5.99dBi
Antenna Gain(Peak)		WiFi 5.3G ANT2: 4.12dBi
	•	WiFi 5.6G ANT1: 5.52dBi
		WiFi 5.6G ANT2: 5.12dBi
		WiFi 5.8G ANT1: 5.51dBi
		WiFi 5.8G ANT2: 5.12dBi
		WiFi 5.2G: 8.21dBi
Directional antenna		WiFi 5.3G: 8.17dBi
gain	•	WiFi 5.6G: 8.33dBi
		WiFi 5.8G: 8.33dBi
Remark: (1) All of the	RI	F 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, 802.11ac and 802.11ax mode support MIMO.

(4) Directional antenna gain=10*log10(10^(ANT1/10)+10^(ANT2/10))

(5) The time for the EUT to fully restart up is 65s

(6) The time for the master device to fully restart up is 65s

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
ROG Rapture Quad- band Gaming Router	ASUSTeK Computer Inc	GT-AXE16000 (FCC ID: MSQ-RTAX5D00; IC: 3568A-RTAX5D00)	RAIG5D2020695NL

1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	1	1
48	5240	1	1

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Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	1	1
161	5805	1	1
165	5825	1	1

Operation Band: U-NII Band 2C

Bandwidth:	20MHz	Bandwidth:	40MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
120	5600	1	1
124	5620	1	1
128	5640	1	1
132	5660	1	1
136	5680	1	1
140	5700	1	1

Operation Band: U-NII Band 2A

Bandwidth:	20MHz	Bandwidth:	40MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300	1	1
64	5320	/	/

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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)	3.2dB		
Dwell Time	2%		
Occupied Bandwidth	925Hz		
Conducted Output Power	0.76dB		
Power Spectral Density	0.76dB		
Conducted Spurious Emission	1.24dB		
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB; 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB		
Radiated emissions (Below 30MHz)	3.26dB		
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB		
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.			

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	Р
Duty Cycle	Mode1,2,3,4	Р
Emission bandwidth and occupied bandwidth	Mode1,2,3,4	Р
Maximum conducted output power	Mode1,2,3,4	Р
Power spectral density	Mode1,2,3,4	Р
Channel Move Time, Channel Closing Transmission Time	Mode5	Р
DFS Detection Thresholds	Mode5	Р
Band edge emissions (Conducted)	Mode1,2,3,4	Р
Band edge emissions (Radiated)	Mode1,2,3,4	Р
Undesirable emission limits (below 1GHz)	Mode1,2,3,4	Р
Undesirable emission limits (above 1GHz)	Mode1,2,3,4	Р
Note: P: Pass N: N/A, not applicable		





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.

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





1.10. Test Equipment List

Cond	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	/	1
4	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08

Duty Cycle Emission bandwidth and occupied bandwidth Maximum conducted output power Power spectral density Channel Move Time, Channel Closing Transmission Time DFS Detection Thresholds Band edge emissions (Conducted)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2024-10-14	2025-10-13
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2024-09-09	2025-09-08
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-09-09	2025-09-08
5	Oscilloscope	Tektronix	MDO3012	C020298	2024-10-10	2025-10-09
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2025-01-14	2026-01-13
7	Power Divider	EMEC	03-3182878	/	2024-05-06	2025-05-05
8	Power Divider	EMEC	03-3182878	/	2024-05-06	2025-05-05
9	10dB Attenuator	CDKMV	6610	6610-1	2024-09-09	2025-09-08
10	10dB Attenuator	CDKMV	2N-10dB	2N-10dB-1	2024-09-09	2025-09-08
11	10dB Attenuator	CDKMV	6606	6606-1	2024-09-09	2025-09-08
12	30dB Attenuator	CDKMV	6603	6606-3	2024-09-09	2025-09-08



Band edge emissions (Radiated) Undesirable emission limits (above 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	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2025-01-13	2026-01-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	1
5	Horn Antenna	A-INFO	LB-180400- KF	J2110606 28	2024-01-22	2027-01-21
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
7	Amplifier	Talent Microwave	TLLA18G40	23022802	2024-05-07	2025-05-06
G-50-30 2022-02-24 2026-0		2026-02-23				

Unde	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	/	1



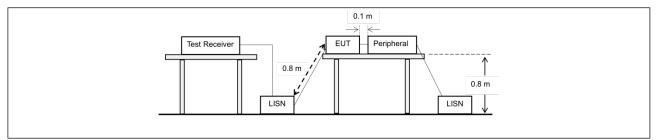
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
	Frequency of emission (MHz)	Conducted limit (dBµV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	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:	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. 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. 3: 802.11ac 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. 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. 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. 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.				

2.2. Test Setup



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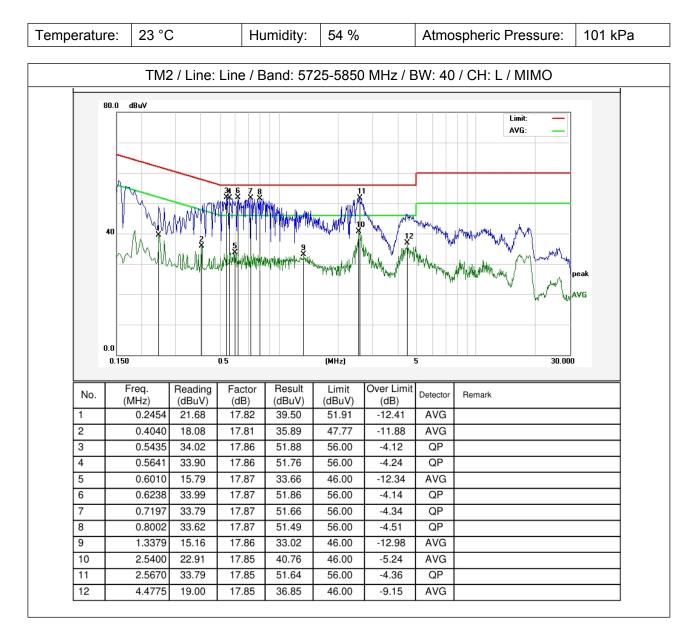
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel:(86)0755-26066440 Email: service@anbotek.com

Hotline 400-003-0500 www.anbotek.com



Report No.:1813C50044712504 FCC ID: 2A4K9-L2PLUS

2.3. Test Data

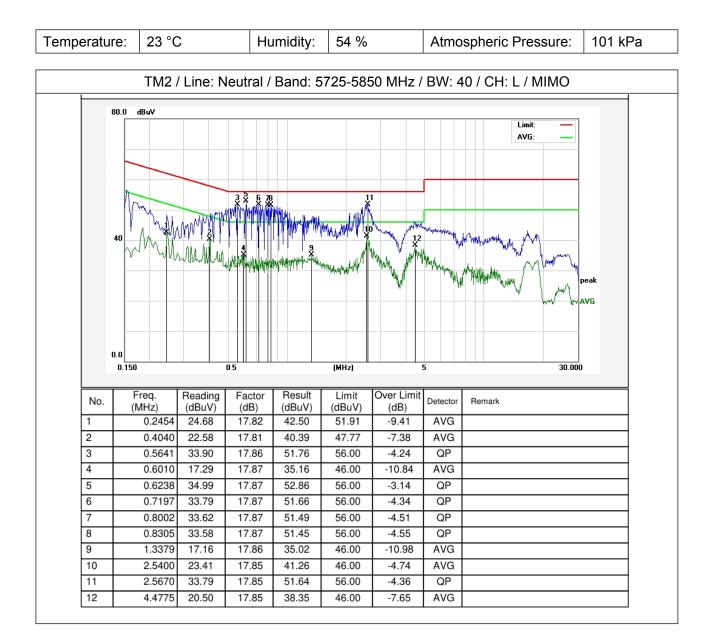


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Report No.:1813C50044712504 FCC ID: 2A4K9-L2PLUS



Note:Only record the worst data in the report.





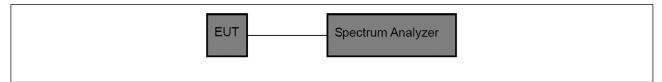
3. Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.
Test Limit:	No limits, only for report use.
Test Method:	ANSI C63.10-2020 section 12.2 (b)
Procedure:	 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW >= RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

3.1. EUT Operation

Operating Envi	Operating Environment:					
Test mode:	 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. 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. 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. 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. 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. 					

3.2. Test Setup



3.3. Test Data

Temperature:25.3 °CHumidity:49 %Atmospheric Pressure:101	κPa
--	-----

Please Refer to Appendix for Details.





4. Emission bandwidth and occupied bandwidth

Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
rest Requirement.	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 6.9 & 12.5 KDB 789033 D02, Clause C.2
	 Emission bandwidth: a) Set RBW = approximately 1% of the emission bandwidth. b) Set the VBW > RBW. c) Detector = peak. d) Trace mode = max hold. e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
Procedure:	 Occupied bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered





amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of
the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the
total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is
the difference between these two frequencies.
h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument
display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may
be reported in addition to the plot(s).
6 dB emission bandwidth:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) \geq 3 >= RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.1. EUT Operation

Operating Env	vironment:
Test mode:	 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. 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. 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. 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. 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. 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.





4.2. Test Setup

EUT Spectrum Analyzer

4.3. Test Data

Temperature: 25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





5. Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W 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. 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.
Test Method:	ANSI C63.10-2020, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

5.1. EUT Operation

Operating Envi	ironment:
Test mode:	 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. 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. 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

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the data of worst case is recorded in the report. 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.

5.2. Test Setup

EUT Spectrum Analyzer	

5.3. Test Data

Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



6. Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(1)(ii) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Limit:	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density 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
Test Method:	for fixed, point-to-point operations. ANSI C63.10-2020, section 12.6
Procedure:	Refer to ANSI C63.10-2020, section 12.6

6.1. EUT Operation

Operating Env	ironment:
Test mode:	 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. 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. 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. 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. 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

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		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.
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6.2. Test Setup

EUT Spectrum Analyzer

6.3. Test Data

Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





7. Channel Move Time, Channel Closing Transmission Time

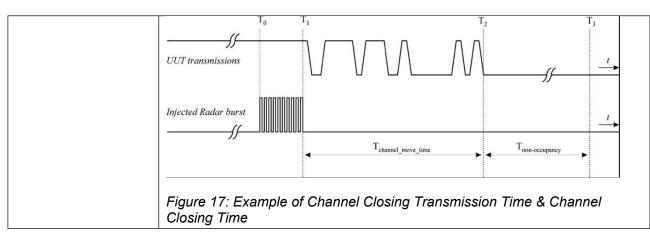
Test Requirement:	47 CFR Part 15.407(h)(2)(iii)
Test Limit:	Channel Move Time: within 10 seconds Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.)
Test Method:	KDB 905462 D02, Clause 7.8.3
Procedure:	The steps below define the procedure to determine the above-mentioned parameters when a radar <i>Burst</i> with a level equal to the <i>DFS Detection Threshold</i> + 1dB is generated on the <i>Operating Channel</i> of the U-NII device (<i>In-Service Monitoring</i>). 1. One frequency will be chosen from the <i>Operating Channels</i> of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected. 2. In case the UUT is a U-NII device operating as a <i>Client Device</i> (with or without DFS), a U-NII device operating as a <i>Master Device</i> . In case the UUT is a <i>Master Device</i> , a U-NII device operating as a <i>Client Device</i> will be used to allow the UUT (Client device) to <i>Associate</i> with the <i>Master Device</i> . In case the UUT is a <i>Master Device</i> , a U-NII device operating as a <i>Client Device</i> will be used and it is assumed that the Client will <i>Associate</i> with the UUT (Master). In both cases for conducted tests, the <i>Radar Waveform</i> generator will be connected to the <i>Master Device</i> . For radiated tests, the emissions of the <i>Radar Waveform</i> generator will be directed toward the radar emitter. Vertical polarization is used for testing. 3. Stream the channel loading test file from the <i>Master Device</i> to the <i>Client Device</i> on the test <i>Channel</i> for the entire period of the test. 4. At time T0 the <i>Radar Waveform</i> generator sends a <i>Burst</i> of pulses for one of the Radar Type 0 in Table 5 at levels defined in Table 3 , on the <i>Operating Channel</i> . An additional 1 dB is added to the radar <i>Burst</i> on the <i>Operating Channel</i> . An additional 1 dB is added to the radar <i>Burst</i> on the <i>Operating Channel</i> . An additional 1 dB is added to the radar <i>Burst</i> on the <i>Operating Channel</i> . For duration greater than 10 seconds. Measure and record the transmissions of the UUT d

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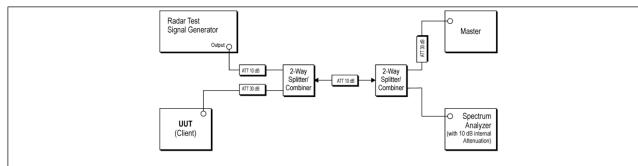
Report No.:1813C50044712504 FCC ID: 2A4K9-L2PLUS



7.1. EUT Operation

Operating Envi	Operating Environment:			
Test mode:	5: Normal Operating: Keep the EUT works in normal operating mode and connect to companion device			

7.2. Test Setup



7.3. Test Data

Temperature: 25.3 °C Humidity: 49 % Atmospheric Pressure: 101 kPa						
	Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.



8. DFS Detection Thresholds

Test Requirement:	KDB 905462 D02, Clause 5.2 Table 3		
	Table 3: DFS Detection Thresholds for Master with Radar Detection Table 3: DFS Detection Thresholds for Ma and Client Devices with Radar De	ster Devices	
Test Limit:	Maximum Transmit Power EIRP ≥ 200 milliwatt EIRP < 200 milliwatt and	Value (See Notes 1, 2, and 3) -64 dBm -62 dBm	
	Fight of the density of the density of the density requirement -64 dBm Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. -64 dBm Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.		
Test Method:	KDB 905462 D02, Clause 7.4.1.1		
Procedure:	 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master 2) The interference Radar Detection Threshold Level is TH+ 0dBi +1dB that had been taken into account the output power range and antenna gain. 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process, there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB. 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was TH + 0dBi +1dB = -63dBm. Capture the spectrum analyzer plots on short pulse radar waveform. 		

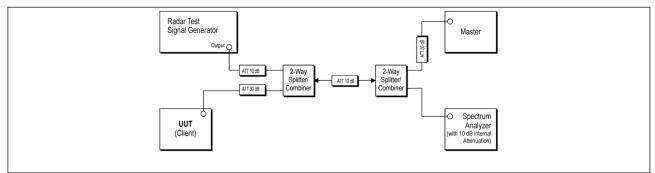
8.1. EUT Operation

Operating Environment:		
Test mode:	5: Normal Operating: Keep the EUT works in normal operating mode and connect to companion device	





8.2. Test Setup



8.3. Test Data

Temperature: 25.3 °C Humidity: 49 % Atmospheric Pressure: 101 kPa	ſ						
		Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





9. Band edge emissions (Conducted)

Test Requirement:	47 CFR Part 15.407(b 47 CFR Part 15.407(b)(2))(3))(4)					
	For transmitters opera	47 CFR Part 15.407(b)(10) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.					
	For transmitters opera of the 5.15-5.35 GHz						
	For transmitters opera of the 5.47-5.725 GHz						
	All emissions shall be above or below the ba above or below the ba edge increasing linear	For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge					
	MHz	MHz	MHz	GHz			
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15			
	10.495-0.505	16.69475-	608-614	5.35-5.46			
	0.495-0.505	16.69525	000-014	5.55-5.40			
	2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75			
Test Limit:	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5			
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2			
	4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5			
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7			
	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4			
	6.31175-6.31225	123-138	2200-2300	14.47-14.5			
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2			
	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4			
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12			
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0			
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8			
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5			
	12.57675-12.57725	322-335.4	3600-4400	(²)			
	13.36-13.41						
	¹ Until February 1, 199 ² Above 38.6						
	The field strength of e	missions appearing v	vithin these frequ	uency bands shall			

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	not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements. 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:			
	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	
 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 However, operation within these frequency bands is permitted under sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edge The emission limits shown in the above table are based on measure employing a CISPR quasi-peak detector except for the frequency bands are based on measurements employing an avera detector. 				
Test Method:	ANSI C63.10-2020, sec	ANSI C63.10-2020, section 12.7.4, 12.7.6		
Procedure:	Using the following spectrum analyzer setting: 1. Set the RBW = 1MHz. 2. Set the VBW = 3MHz. 3. Sweep time = auto couple. 4. Detector function = peak. 5. Trace mode = max hold. 6. Allow trace to fully stabilize.			

9.1. EUT Operation

Operating Environment:				
Test mode:	 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. 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. 3: 802.11ac mode: Keep the EUT connect to AC power line and works in 			

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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.
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.

9.2. Test Setup

	EUT	Spectrum Analyzer	
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9.3. Test Data

		1			
Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.



10. Band edge emissions (Radiated)

Test Requirement:	47 CFR Part 15.407(b 47 CFR Part 15.407(b)(2))(3))(4)		
	For transmitters opera of the 5.15-5.35 GHz	ating in the 5.15-5.25		
	For transmitters opera of the 5.15-5.35 GHz			
	For transmitters opera of the 5.47-5.725 GHz			
	For transmitters opera All emissions shall be above or below the ba above or below the ba edge increasing linear below the band edge, increasing linearly to a	limited to a level of – and edge increasing I and edge, and from 2 rly to a level of 15.6 d and from 5 MHz abo	27 dBm/MHz at inearly to 10 dBr 5 MHz above or Bm/MHz at 5 MI ve or below the	75 MHz or more n/MHz at 25 MHz below the band Hz above or band edge
				<u> </u>
	MHz	MHz	MHz	GHz
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	¹ 0.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
	2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
Test Limit:	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
	4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
	6.31175-6.31225	123-138	2200-2300	14.47-14.5
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
	12.57675-12.57725	322-335.4	3600-4400	(²)
	13.36-13.41			
	¹ Until February 1, 199 ² Above 38.6 The field strength of e			
	The field strength of e	missions appearing v	vithin these frequ	uency bands shal

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	 not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements. 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: 					
	Frequency (MHz)Field strength (microvolts/meter)Measurement distance					
	0.009-0.490	2400/F(kHz)	(meters) 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 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. 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.					
Test Method:	ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7					
Procedure:	meters above the ground a was rotated 360 degrees to b. The EUT was set 3 meters which was mounted on the c. The antenna height is var ground to determine the mand and vertical polarizations of d. For each suspected emines and then the antenna was test frequency of below 300 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum I f. If the emission level of the limit specified, then testing	JT was placed on the top of a rot at a 3 meter fully-anechoic chamb o determine the position of the hi ers away from the interference-re- top of a variable-height antenna aried from one meter to four meter aximum value of the field strengt f the antenna are set to make the ssion, the EUT was arranged to tuned to heights from 1 meter to MHz, the antenna was tuned to he s turned from 0 degrees to 360 d m was set to Peak Detect Function Hold Mode. e EUT in peak mode was 10dB f could be stopped and the peak to ise the emissions that did not ha	ber. The table ghest radiation. eceiving antenna, a tower. ers above the th. Both horizontal e measurement. its worst case 4 meters (for the neights 1 meter) egrees to find the an and Specified lower than the values of the EUT			

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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. Result(dBµV/m) = Reading(dBµV) + Factor(dB/m);Over Limit(dB) = Result(dBµV/m) - Limit(dBµV/m)
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 highest point could be found when testing, so only the above harmonics had been displayed.

10.1. EUT Operation

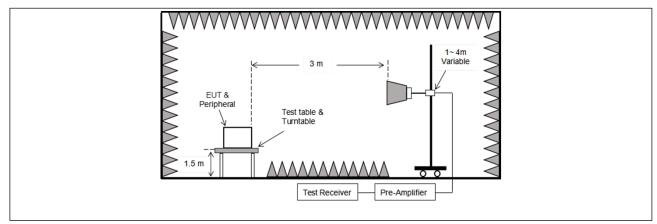
Operating	Environment:

Test mode:	 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. 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. 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. 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. 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.





10.2. Test Setup



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10.3. Test Data

Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

TM1 / Band: 5150-5350 MHz / BW: 20 / L								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
5150.00	37.10	15.99	53.09	68.20	-15.11	Н	Peak	
5150.00	39.19	15.99	55.18	68.20	-13.02	V	Peak	
5150.00	27.00	15.99	42.99	54.00	-11.01	Н	AVG	
5150.00	29.09	15.99	45.08	54.00	-8.92	V	AVG	
		TM1 / B	and: 5150-53	350 MHz / BV	V: 20 / H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
5350.00	37.51	16.43	53.94	68.20	-14.26	Н	Peak	
5350.00	40.53	16.43	56.96	68.20	-11.24	V	Peak	
5350.00	28.88	16.43	45.31	54.00	-8.69	Н	AVG	
5350.00	29.73	16.43	46.16	54.00	-7.84	V	AVG	

Remark:

1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT1) data is listed in the report.

	TM2 / Band: 5150-5350 MHz / BW: 20 / L							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
5150.00	36.00	15.99	51.99	68.20	-16.21	Н	Peak	
5150.00	37.42	15.99	53.41	68.20	-14.79	V	Peak	
5150.00	26.72	15.99	42.71	54.00	-11.29	Н	AVG	
5150.00	27.70	15.99	43.69	54.00	-10.31	V	AVG	
		TM2 / B	and: 5150-53	850 MHz / BV	V: 20 / H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
5350.00	37.84	16.43	54.27	68.20	-13.93	Н	Peak	
5350.00	38.86	16.43	55.29	68.20	-12.91	V	Peak	

Remark:

5350.00

5350.00

1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

54.00

54.00

44.31

45.80

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27.88

29.37

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16.43

16.43



Н

V

AVG

AVG

-9.69

-8.20



	TM2 / Band: 5150-5350 MHz / BW: 40 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5150.00	36.60	15.99	52.59	68.20	-15.61	Н	Peak				
5150.00	38.44	15.99	54.43	68.20	-13.77	V	Peak				
5150.00	27.18	15.99	43.17	54.00	-10.83	Н	AVG				
5150.00	28.80	15.99	44.79	54.00	-9.21	V	AVG				
		TM2 / B	and: 5150-53	350 MHz / BV	V: 40 / H						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5350.00	38.16	16.43	54.59	68.20	-13.61	Н	Peak				
5350.00	37.00	16.43	53.43	68.20	-14.77	V	Peak				
5350.00	28.43	16.43	44.86	54.00	-9.14	Н	AVG				
5350.00	29.65	16.43	46.08	54.00	-7.92	V	AVG				

1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

TM3 / Band: 5150-5350 MHz / BW: 20 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5150.00	37.07	15.99	53.06	68.20	-15.14	Н	Peak			
5150.00	38.84	15.99	54.83	68.20	-13.37	V	Peak			
5150.00	26.63	15.99	42.62	54.00	-11.38	Н	AVG			
5150.00	28.87	15.99	44.86	54.00	-9.14	V	AVG			
		TM3 / B	and: 5150-53	350 MHz / BV	V: 20 / H					
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5350.00	37.95	16.43	54.38	68.20	-13.82	Н	Peak			
5350.00	38.19	16.43	54.62	68.20	-13.58	V	Peak			
5350.00	27.88	16.43	44.31	54.00	-9.69	Н	AVG			
5350.00	28.49	16.43	44.92	54.00	-9.08	V	AVG			
Domork										

Remark:

1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.





	TM3 / Band: 5150-5350 MHz / BW: 40 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5150.00	36.01	15.99	52.00	68.20	-16.20	Н	Peak				
5150.00	36.41	15.99	52.40	68.20	-15.80	V	Peak				
5150.00	26.24	15.99	42.23	54.00	-11.77	Н	AVG				
5150.00	26.93	15.99	42.92	54.00	-11.08	V	AVG				
		TM3 / B	and: 5150-53	850 MHz / BV	V: 40 / H						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5350.00	38.13	16.43	54.56	68.20	-13.64	Н	Peak				
5350.00	37.25	16.43	53.68	68.20	-14.52	V	Peak				
5350.00	27.56	16.43	43.99	54.00	-10.01	Н	AVG				
5350.00	27.63	16.43	44.06	54.00	-9.94	V	AVG				

1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

	TM4 / Band: 5150-5350 MHz / BW: 20 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5150.00	35.98	15.99	51.97	68.20	-16.23	Н	Peak				
5150.00	37.40	15.99	53.39	68.20	-14.81	V	Peak				
5150.00	26.70	15.99	42.69	54.00	-11.31	Н	AVG				
5150.00	27.68	15.99	43.67	54.00	-10.33	V	AVG				

TM4 / Band: 5150-5350 MHz / BW: 20 / H

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.82	16.43	54.25	68.20	-13.95	Н	Peak
5350.00	38.84	16.43	55.27	68.20	-12.93	V	Peak
5350.00	27.86	16.43	44.29	54.00	-9.71	Н	AVG
5350.00	29.34	16.43	45.77	54.00	-8.23	V	AVG

Remark:

1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.





	TM4 / Band: 5150-5350 MHz / BW: 40 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5150.00	36.57	15.99	52.56	68.20	-15.64	Н	Peak				
5150.00	38.41	15.99	54.40	68.20	-13.80	V	Peak				
5150.00	27.15	15.99	43.14	54.00	-10.86	Н	AVG				
5150.00	28.79	15.99	44.78	54.00	-9.22	V	AVG				
		TM4 / Ba	and: 5150-53	350 MHz / BV	V: 40 / H						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5350.00	38.14	16.43	54.57	68.20	-13.63	Н	Peak				
5350.00	36.99	16.43	53.42	68.20	-14.78	V	Peak				
5350.00	28.40	16.43	44.83	54.00	-9.17	Н	AVG				
5350.00	29.62	16.43	46.05	54.00	-7.95	V	AVG				

1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.



	TM1 / Band: 5470-5850 MHz / BW: 20 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5460.00	38.22	16.37	54.59	68.20	-13.61	Н	Peak				
5460.00	39.62	16.37	55.99	68.20	-12.21	V	Peak				
5470.00	39.15	16.70	55.85	68.20	-12.35	Н	Peak				
5470.00	39.91	16.70	56.61	68.20	-11.59	V	Peak				
5460.00	28.80	16.37	45.17	54.00	-8.83	Н	AVG				
5460.00	28.68	16.37	45.05	54.00	-8.95	V	AVG				
5470.00	29.07	16.70	45.77	54.00	-8.23	Н	AVG				
5470.00	30.19	16.70	46.89	54.00	-7.11	V	AVG				
		TM1 / B	and: 5470-58	350 MHz / BV	V: 20 / H						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5850.00	39.17	17.21	56.38	68.20	-11.82	Н	Peak				
5850.00	39.55	17.21	56.76	68.20	-11.44	V	Peak				
5850.00	29.15	17.21	46.36	54.00	-7.64	Н	AVG				
5850.00	29.16	17.21	46.37	54.00	-7.63	V	AVG				

Remark: 1. Result=Reading + Factor

2. During the test, all antenna chains has been tested, and only worst case (ANT1) data is listed in the report.

	TM2 / Band: 5470-5850 MHz / BW: 20 / L									
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5460.00	38.20	16.37	54.57	68.20	-13.63	Н	Peak			
5460.00	38.79	16.37	55.16	68.20	-13.04	V	Peak			
5470.00	38.31	16.70	55.01	68.20	-13.19	Н	Peak			
5470.00	38.74	16.70	55.44	68.20	-12.76	V	Peak			
5460.00	27.18	16.37	43.55	54.00	-10.45	Н	AVG			
5460.00	27.63	16.37	44.00	54.00	-10.00	V	AVG			
5470.00	27.62	16.70	44.32	54.00	-9.68	Н	AVG			
5470.00	28.17	16.70	44.87	54.00	-9.13	V	AVG			
		TM2 / B	and: 5470-58	850 MHz / BV	V: 20 / H					
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5850.00	37.41	17.21	54.62	68.20	-13.58	Н	Peak			
5850.00	38.01	17.21	55.22	68.20	-12.98	V	Peak			
5850.00	27.70	17.21	44.91	54.00	-9.09	Н	AVG			
5850.00	28.51	17.21	45.72	54.00	-8.28	V	AVG			

Remark: 1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

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5850.00

5850.00

5850.00

TM2 / Band: 5470-5850 MHz / BW: 40 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5460.00	37.78	16.37	54.15	68.20	-14.05	Н	Peak			
5460.00	38.67	16.37	55.04	68.20	-13.16	V	Peak			
5470.00	38.61	16.70	55.31	68.20	-12.89	Н	Peak			
5470.00	39.28	16.70	55.98	68.20	-12.22	V	Peak			
5460.00	26.89	16.37	43.26	54.00	-10.74	Н	AVG			
5460.00	28.74	16.37	45.11	54.00	-8.89	V	AVG			
5470.00	27.09	16.70	43.79	54.00	-10.21	Н	AVG			
5470.00	28.42	16.70	45.12	54.00	-8.88	V	AVG			
TM2 / Band: 5470-5850 MHz / BW: 40 / H										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5850.00	38.14	17.21	55.35	68.20	-12.85	Н	Peak			

29.39 Remark: 1. Result=Reading + Factor

38.51

28.31

17.21

17.21

17.21

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

68.20

54.00

54.00

-12.48

-8.48

-7.40

55.72

45.52

46.60

	TM3 / Band: 5470-5850 MHz / BW: 20 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5460.00	37.41	16.37	53.78	68.20	-14.42	Н	Peak				
5460.00	37.55	16.37	53.92	68.20	-14.28	V	Peak				
5470.00	37.99	16.70	54.69	68.20	-13.51	Н	Peak				
5470.00	38.35	16.70	55.05	68.20	-13.15	V	Peak				
5460.00	28.04	16.37	44.41	54.00	-9.59	Н	AVG				
5460.00	28.69	16.37	45.06	54.00	-8.94	V	AVG				
5470.00	28.32	16.70	45.02	54.00	-8.98	Н	AVG				
5470.00	29.15	16.70	45.85	54.00	-8.15	V	AVG				
		TM3 / Ba	and: 5470-58	350 MHz / BV	V: 20 / H						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5850.00	38.15	17.21	55.36	68.20	-12.84	Н	Peak				
5850.00	39.03	17.21	56.24	68.20	-11.96	V	Peak				
5850.00	28.02	17.21	45.23	54.00	-8.77	Н	AVG				
5850.00	29.11	17.21	46.32	54.00	-7.68	V	AVG				

Remark: 1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

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V

Н

V

Peak

AVG

AVG

-							
		TM3 / B	and: 5470-58	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	36.36	16.37	52.73	68.20	-15.47	Н	Peak
5460.00	37.86	16.37	54.23	68.20	-13.97	V	Peak
5470.00	36.79	16.70	53.49	68.20	-14.71	Н	Peak
5470.00	38.20	16.70	54.90	68.20	-13.30	V	Peak
5460.00	27.35	16.37	43.72	54.00	-10.28	Н	AVG
5460.00	27.47	16.37	43.84	54.00	-10.16	V	AVG
5470.00	27.60	16.70	44.30	54.00	-9.70	Н	AVG
5470.00	28.28	16.70	44.98	54.00	-9.02	V	AVG
		TM3 / B	and: 5470-58	350 MHz / BV	V: 40 / H		•
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.70	17.21	54.91	68.20	-13.29	Н	Peak
5850.00	38.55	17.21	55.76	68.20	-12.44	V	Peak

27.34 Remark: 1. Result=Reading + Factor

27.71

17.21

17.21

5850.00

5850.00

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

54.00

54.00

-9.08

-9.45

Н

V

AVG

AVG

44.92

44.55

	TM4 / Band: 5470-5850 MHz / BW: 20 / L									
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5460.00	38.27	16.37	54.64	68.20	-13.56	Н	Peak			
5460.00	38.88	16.37	55.25	68.20	-12.95	V	Peak			
5470.00	38.38	16.70	55.08	68.20	-13.12	Н	Peak			
5470.00	38.83	16.70	55.53	68.20	-12.67	V	Peak			
5460.00	27.22	16.37	43.59	54.00	-10.41	Н	AVG			
5460.00	27.68	16.37	44.05	54.00	-9.95	V	AVG			
5470.00	27.66	16.70	44.36	54.00	-9.64	Н	AVG			
5470.00	28.22	16.70	44.92	54.00	-9.08	V	AVG			
		TM4 / Ba	and: 5470-58	850 MHz / BV	V: 20 / H					
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
5850.00	37.49	17.21	54.70	68.20	-13.50	Н	Peak			
5850.00	38.07	17.21	55.28	68.20	-12.92	V	Peak			
5850.00	27.79	17.21	45.00	54.00	-9.00	Н	AVG			
5850.00	28.58	17.21	45.79	54.00	-8.21	V	AVG			

Remark: 1. Result=Reading + Factor

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

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	TM4 / Band: 5470-5850 MHz / BW: 40 / L							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
5460.00	37.85	16.37	54.22	68.20	-13.98	Н	Peak	
5460.00	38.76	16.37	55.13	68.20	-13.07	V	Peak	
5470.00	38.68	16.70	55.38	68.20	-12.82	Н	Peak	
5470.00	39.37	16.70	56.07	68.20	-12.13	V	Peak	
5460.00	26.94	16.37	43.31	54.00	-10.69	Н	AVG	
5460.00	28.78	16.37	45.15	54.00	-8.85	V	AVG	
5470.00	27.14	16.70	43.84	54.00	-10.16	Н	AVG	
5470.00	28.46	16.70	45.16	54.00	-8.84	V	AVG	
		TM4 / B	and: 5470-58	350 MHz / BV	V: 40 / H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
5850.00	38.21	17.21	55.42	68.20	-12.78	Н	Peak	
5850.00	38.56	17.21	55.77	68.20	-12.43	V	Peak	
5850.00	28.39	17.21	45.60	54.00	-8.40	Н	AVG	

5850.00

1. Result=Reading + Factor

29.45

17.21

2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

54.00

-7.34

46.66

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V

AVG





11. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(3)					
	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.						
	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:						
	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				
Test Limit:	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	The emission limits show employing a CISPR qua 90 kHz, 110–490 kHz ar	ove, the tighter limit applies at vn in the above table are base si-peak detector except for the id above 1000 MHz. Radiated ased on measurements emplo	ed on measurements e frequency bands 9– d emission limits in				
Test Method:	ANSI C63.10-2020, section 12.7.4, 12.7.5						
Procedure:	 Below 1GHz: 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. 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. 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 quasi-peak 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 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 horizonta
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 EU 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.



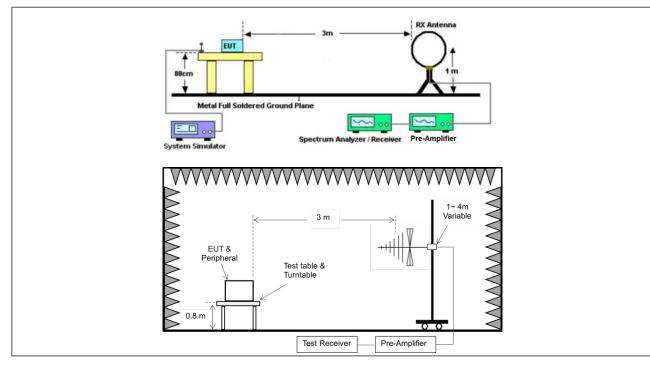


	 limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
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11.1. EUT Operation

Operating Envir	Operating Environment:							
Test mode:	 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. 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. 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. 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. 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. 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. 							

11.2. Test Setup



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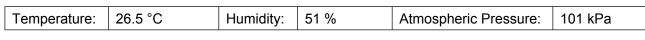
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel:(86)0755-26066440 Email: service@anbotek.com

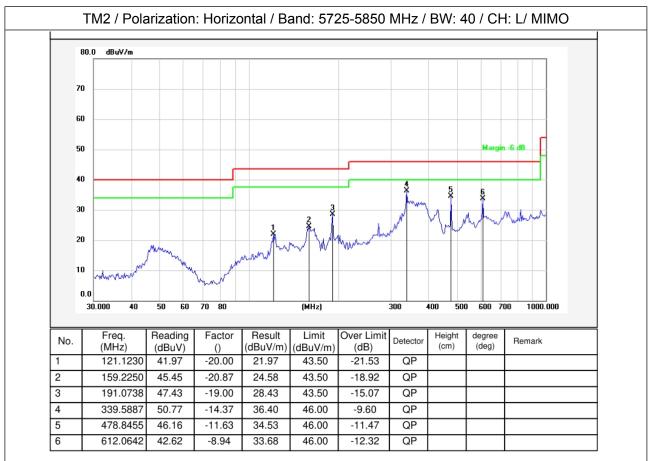




11.3. Test Data

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





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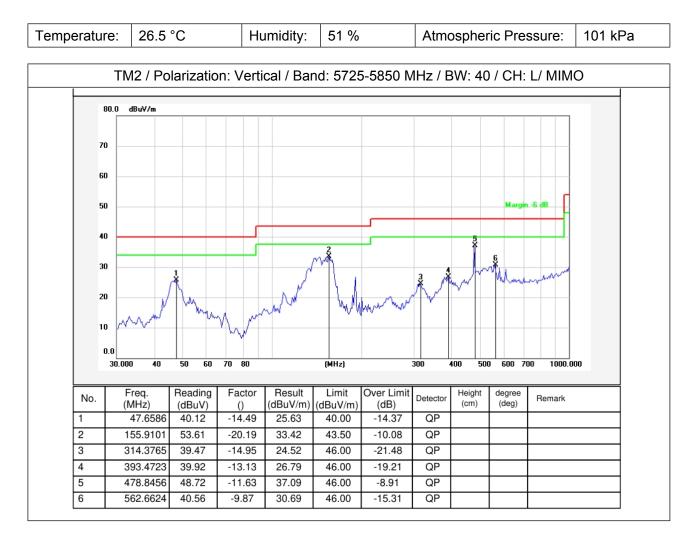


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Note:Only record the worst data in the report.





12. Undesirable emission limits (above 1GHz)

Test Requirement:	47 CFR Part 15.407(b 47 CFR Part 15.407(b)(2))(3))(4)					
	For transmitters opera of the 5.15-5.35 GHz	band shall not exceed	d an e.i.r.p. of −2	27 dBm/MHz.			
	For transmitters opera of the 5.15-5.35 GHz						
	For transmitters opera of the 5.47-5.725 GHz						
	For transmitters opera All emissions shall be above or below the ba	limited to a level of -	27 dBm/MHz at	75 MHz or more			
	above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.						
	MHz	MHz	MHz	GHz			
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15			
	10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46			
	2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75			
Test Limit:	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5			
	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2			
	4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5			
	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7			
	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4			
	6.31175-6.31225	123-138	2200-2300	14.47-14.5			
	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2			
	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4			
	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12			
	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0			
	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8			
	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5			
	12.57675-12.57725	322-335.4	3600-4400	(²)			
	13.36-13.41						
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6						
	The field strength of e	missions appearing v	vithin these frequ	uency bands shall			

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	 not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements. 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: 					
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance			
	0.009-0.490	2400/F(kHz)	(meters) 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			
	 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. 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. 					
Test Method:	ANSI C63.10-2020, section	12.7.4, 12.7.6, 12.7.7				
Procedure:	meters above the ground a was rotated 360 degrees to b. The EUT was set 3 meter which was mounted on the c. The antenna height is var ground to determine the mar and vertical polarizations of d. For each suspected emise and then the antenna was test frequency of below 301 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum H f. If the emission level of the limit specified, then testing would be reported. Otherwite	IT was placed on the top of a rot t a 3 meter fully-anechoic cham o determine the position of the his ers away from the interference-re- top of a variable-height antenna- iried from one meter to four meter aximum value of the field streng f the antenna are set to make th ssion, the EUT was arranged to tuned to heights from 1 meter to MHz, the antenna was tuned to he turned from 0 degrees to 360 d was set to Peak Detect Function Hold Mode. e EUT in peak mode was 10dB could be stopped and the peak ise the emissions that did not ha one using peak or average method	ber. The table ighest radiation. eceiving antenna, a tower. ers above the th. Both horizontal e measurement. its worst case 4 meters (for the heights 1 meter) legrees to find the on and Specified lower than the values of the EUT ave 10dB margin			



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

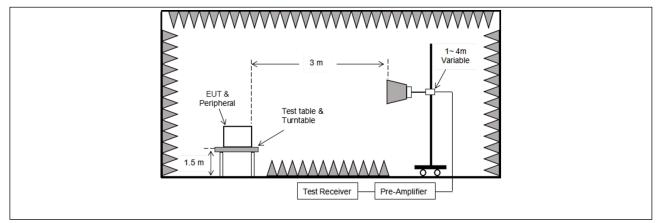
12.1. EUT Operation

Operating Envi	Operating Environment:						
Test mode:	 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. 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. 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. 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. 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. 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. 						





12.2. Test Setup



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12.3. Test Data

Temperature:	25.3 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
	•		•		•

	TM4 / Band: 5150-5250 MHz / BW: 40 / CH: L							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
10380.00	29.60	23.81	53.41	68.20	-14.79	V	Peak	
15570.00	30.92	28.91	59.83	68.20	-8.37	V	Peak	
10380.00	30.75	23.81	54.56	68.20	-13.64	Н	Peak	
15570.00	31.55	28.91	60.46	68.20	-7.74	Н	Peak	
10380.00	20.33	23.81	44.14	54.00	-9.86	V	AVG	
15570.00	20.83	28.91	49.74	54.00	-4.26	V	AVG	
10380.00	20.70	23.81	44.51	54.00	-9.49	Н	AVG	
15570.00	20.99	28.91	49.90	54.00	-4.10	Н	AVG	
		TM4 / Ban	d: 5150-525	0 MHz / BW:	40 / CH: H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
10460.00	29.96	23.80	53.76	68.20	-14.44	V	Peak	
15690.00	31.13	30.03	61.16	68.20	-7.04	V	Peak	
10460.00	30.46	23.80	54.26	68.20	-13.94	Н	Peak	
15690.00	31.69	30.03	61.72	68.20	-6.48	Н	Peak	
10460.00	20.59	23.80	44.39	54.00	-9.61	V	AVG	
15690.00	20.74	30.03	50.77	54.00	-3.23	V	AVG	
10460.00	20.49	23.80	44.29	54.00	-9.71	Н	AVG	
15690.00	20.66	30.03	50.69	54.00	-3.31	Н	AVG	

Remark:

1. Result =Reading + Factor

2. Only the worst case (802.11ax(HEW40) MIMO) is recorded in the report.

3. Test frequency are from 1GHz to 40GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.



TM4 / Band: 5250-5350 MHz / BW: 40 / CH: L								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
10540.00	27.41	23.83	51.24	68.20	-16.96	V	Peak	
15810.00	29.19	30.70	59.89	68.20	-8.31	V	Peak	
10540.00	27.76	23.83	51.59	68.20	-16.61	Н	Peak	
15810.00	29.16	30.70	59.86	68.20	-8.34	Н	Peak	
10540.00	17.01	23.83	40.84	54.00	-13.16	V	AVG	
15810.00	18.33	30.70	49.03	54.00	-4.97	V	AVG	
10540.00	17.57	23.83	41.40	54.00	-12.60	Н	AVG	
15810.00	18.49	30.70	49.19	54.00	-4.81	Н	AVG	
		TM4 / Ban	d: 5250-5350	MHz / BW:	40 / CH: H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
10620.00	28.16	23.90	52.06	68.20	-16.14	V	Peak	
15930.00	27.84	31.83	59.67	68.20	-8.53	V	Peak	
10620.00	28.56	23.90	52.46	68.20	-15.74	Н	Peak	
15930.00	28.63	31.83	60.46	68.20	-7.74	Н	Peak	
10620.00	18.38	23.90	42.28	54.00	-11.72	V	AVG	
15930.00	17.64	31.83	49.47	54.00	-4.53	V	AVG	
10620.00	18.59	23.90	42.49	54.00	-11.51	Н	AVG	
15930.00	17.78	31.83	49.61	54.00	-4.39	Н	AVG	

1. 1Result =Reading + Factor

- 2. Only the worst case (802.11ax(HEW40) MIMO) is recorded in the report.
- 3. Test frequency are from 1GHz to 40GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.



TM3 / Band: 5470-5725 MHz / BW: 20 / CH: L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
11000.00	27.01	24.15	51.16	68.20	-17.04	V	Peak			
16500.00	29.14	33.05	62.19	68.20	-6.01	V	Peak			
11000.00	28.81	24.15	52.96	68.20	-15.24	Н	Peak			
16500.00	29.18	33.05	62.23	68.20	-5.97	Н	Peak			
11000.00	16.714	24.15	40.86	54.00	-13.14	V	AVG			
16500.00	18.076	33.05	51.13	54.00	-2.87	V	AVG			
11000.00	16.935	24.15	41.09	54.00	-12.91	Н	AVG			
16500.00	16.782	33.05	49.83	54.00	-4.17	Н	AVG			
TM3 / Band: 5470-5725 MHz / BW: 20 / CH: M										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
11200.000	26.69	23.83	50.52	68.20	-17.68	V	Peak			
16800.000	27.31	32.16	59.47	68.20	-8.73	V	Peak			
11200.000	27.74	23.83	51.57	68.20	-16.63	Н	Peak			
16800.000	27.79	32.16	59.95	68.20	-8.25	Н	Peak			
11200.000	16.964	23.83	40.79	54.00	-13.21	V	AVG			
16800.000	18.476	32.16	50.64	54.00	-3.36	V	AVG			
11200.000	17.435	23.83	41.27	54.00	-12.73	Н	AVG			
16800.000	18.642	32.16	50.80	54.00	-3.20	Н	AVG			
TM3 / Band: 5470-5725 MHz / BW: 20 / CH: H										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
11400.000	25.78	23.51	49.29	68.20	-18.91	V	Peak			
17100.000	27.20	31.73	58.93	68.20	-9.27	V	Peak			
11400.000	26.64	23.51	50.15	68.20	-18.05	Н	Peak			
17100.000	27.79	31.73	59.52	68.20	-8.68	Н	Peak			
11400.000	16.34	23.51	39.85	54.00	-14.15	V	AVG			
17100.000	17.69	31.73	49.42	54.00	-4.58	V	AVG			
11400.000	20.23	23.51	43.74	54.00	-10.26	Н	AVG			
17100.000	18.43	31.73	50.16	54.00	-3.84	Н	AVG			

1. Result =Reading + Factor

- 2. Only the worst case (802.11ac(VHT20) MIMO) is recorded in the report.
- 3. Test frequency are from 1GHz to 40GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.





TM2 / Band: 5725-5850 MHz / BW: 40 / CH: L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
11510.000	28.61	23.36	51.97	68.20	-16.23	V	Peak			
17265.000	29.17	32.02	61.19	68.20	-7.01	V	Peak			
11510.000	29.48	23.36	52.84	68.20	-15.36	Н	Peak			
17265.000	29.42	32.02	61.44	68.20	-6.76	Н	Peak			
11510.000	18.33	23.36	41.69	54.00	-12.31	V	AVG			
17265.000	18.72	32.02	50.74	54.00	-3.26	V	AVG			
11510.000	18.70	23.36	42.06	54.00	-11.94	Н	AVG			
17265.000	19.19	32.02	51.21	54.00	-2.79	Н	AVG			
TM2 / Band: 5725-5850 MHz / BW: 40 / CH: H										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector			
11590.00	27.95	23.43	51.38	68.20	-16.82	V	Peak			
17385.00	29.13	32.23	61.36	68.20	-6.84	V	Peak			
11590.00	28.46	23.43	51.89	68.20	-16.31	Н	Peak			
17385.00	28.69	32.23	60.92	68.20	-7.28	Н	Peak			
11590.00	17.59	23.43	41.02	54.00	-12.98	V	AVG			
17385.00	17.74	32.23	49.97	54.00	-4.03	V	AVG			
11590.00	18.49	23.43	41.92	54.00	-12.08	Н	AVG			
17385.00	18.66	32.23	50.89	54.00	-3.11	Н	AVG			

1. Result =Reading + Factor

- 2. 2Only the worst case (802.11n(HT40) MIMO) is recorded in the report.
- 3. Test frequency are from 1GHz to 40GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.





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 ------

