

FCC 47 CFR PART 15 SUBPART E

TEST REPORT

For

Xtra Muse 2 Pro

MODEL NUMBER: XCAME02

REPORT NUMBER: 4792275316-1-RF-4

ISSUE DATE: June 9, 2026

FCC ID: 2BQH2-XCAME02

Prepared for

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Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	June 9, 2026	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
ON TIME AND DUTY CYCLE	ANSI C63.10-2020, Clause 12.2	None; for reporting purposes only.	Pass
6dB AND 26dB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH	KDB 789033 D02 v02r01 Section C.1	FCC Part 15.407 (a)/(e)	Pass
CONDUCTED OUTPUT POWER	KDB 789033 D02 v02r01 Section E.3.a (Method PM)/KDB 789033 D02 v02r01 Section E.3.a (Method PM) Section E.2.d (Method SA-2)	FCC 15.407 (a)	Pass
POWER SPECTRAL DENSITY	KDB 789033 D02 v02r01 Section F	FCC 15.407 (a)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2020, Clause 6.2.	FCC 15.207	Pass
Radiated Emissions and Band Edge Measurement	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	FCC 15.407 (b) FCC 15.209 FCC 15.205	Pass
FREQUENCY STABILITY	ANSI C63.10-2020, Clause 6.8	FCC 15.407 (g)	Pass
Dynamic Frequency Selection (Slave)	KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02	FCC Part 15.407 (h)	N/A
Dynamic Frequency Selection (Master)	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	FCC Part 15.407 (h)	N/A
Antenna Requirement	N/A	FCC 47 CFR Part 15.203/ 15.407(a)(1) (2)	Pass

Note:

1. N/A: In this whole report not applicable.
2. For FCC, ANSI C63.10:2020 + Cor.1:2023 is also considered for the corresponding test item which is needed.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <FCC 47 CFR PART 15 SUBPART E> when <Simple Acceptance> decision rule is applied. Decision rule for statement of conformity: The measurement uncertainty is not taken into account for statement of conformity.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Xtra Technology LLC
Address: 3422 Old Capitol Trail, Suite 700, Wilmington, DE 19808-6124, USA

Manufacturer Information

Company Name: Xtra Technology LLC
Address: 3422 Old Capitol Trail, Suite 700, Wilmington, DE 19808-6124, USA

EUT Information

EUT Name: Xtra Muse 2 Pro
Model: XCAME02
Brand: Xtra
Sample Received Date: June 3, 2026
Sample ID: 9811701
Date of Tested: June 4, 2026 to June 9, 2026

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 15 SUBPART E	Pass

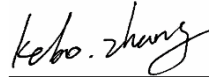
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2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR PART 15 SUBPART E, ANSI C63.10-2020, ANSI C63.10-2020 + Cor.1-2023, FCC 47 CFR Part 2, KDB 789033 D02 v02r01, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, KDB 905462 D03 UNII clients without radar detection New Rules v01r02, KDB 905462 D04 Operational Modes for DFS Testing New Rules v01 and KDB 905462 D06 802 11 Channel Plans New Rules v02.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	4.36 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.47 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.65 dB (1 GHz ~ 18 GHz)
	4.73 dB (18 GHz ~ 26 GHz)
	5.37 dB (26 GHz ~ 40 GHz)
Duty Cycle	±0.028%
Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.766 dB
Maximum Power Spectral Density Level	±1.22 dB
Frequency Stability	±2.76%
Dynamic Frequency Selection	±1.01 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

Remark: For Radiated Emission measurements (200 MHz - 18 GHz), the EUT support table is made of Expanded Polystyrene (EPS). This material is characterized by a low dielectric constant, as recognized in CISPR 16-1-4, to minimize its influence on field strength measurements. This influence has been considered in the uncertainty budget.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Xtra Muse 2 Pro
Model	XCAME02

Frequency Range:	5180 MHz to 5240 MHz 5745 MHz to 5825 MHz
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)IEEE 802.11ax: OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Radio Technology:	IEEE 802.11b/g/n HT20/n HT40/ac VHT20/ac VHT40/ac VHT80/ax HE20/ax HE40/ax HE80
Normal Test Voltage:	DC 7.74V via Battery or DC 5V via USB-C

Note: Both power supply methods have been pre-scanned, only the worst-case test data are recorded in the report.

5.2. CHANNEL LIST

UNII-1 (For Bandwidth=20MHz)		UNII-1 (For Bandwidth=40MHz)		UNII-1 (For 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				

UNII-3 (For Bandwidth=20MHz)		UNII-3 (For Bandwidth=40MHz)		UNII-3 (For 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				

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Maximum Average Conducted Power (dBm)
a	5150 ~ 5250 5725 ~ 5850	17.97
n HT20		21.26
n HT40		20.15
ac VHT80		19.99
ax HE20		20.99
ax HE40		20.18
ax HE80		17.44

Note:

1. Maximum conducted output power = measured value + cable loss (provided by UL)

5.4. TEST CHANNEL CONFIGURATION

UNII-1 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11n HT40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ac VHT80	CH 42(Low Channel)	5210 MHz
802.11ax HE20	CH 36(Low Channel), CH 40(MID Channel), CH 48(High Channel)	5180 MHz, 5200 MHz, 5240 MHz
802.11ax HE40	CH 38(Low Channel), CH 46(High Channel)	5190 MHz, 5230 MHz
802.11ax HE80	CH 42(Low Channel)	5210 MHz

UNII-3 Test Channel Configuration		
IEEE Std.	Test Channel Number	Frequency
802.11a	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11n HT40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz
802.11ac VHT80	CH 155(Low Channel)	5775 MHz
802.11ax HE20	CH 149(Low Channel), CH 157(MID Channel), CH 165(High Channel)	5745 MHz, 5785 MHz, 5825 MHz
802.11ax HE40	CH 151(Low Channel), CH 159(High Channel)	5755MHz, 5795MHz
802.11ax HE80	CH 155(Low Channel)	5775 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worst Case Power Setting Parameter		
Test Software	SetUp-v1.2	
Mode	Freq(MHz)	POWER SETTING
		ANT0&1
802.11a	5180	16
	5200	15
	5240	15
	5745	15
	5785	16
	5825	17
802.11n 20M MIMO	5180	15
	5200	15
	5240	14
	5745	15
	5785	16
	5825	17
802.11n 40M MIMO	5190	15
	5230	15
	5755	13
	5795	14
802.11ac 80M MIMO	5210	15
	5775	11
802.11ax 20M	5180	15
	5200	15
	5240	14
	5745	15
	5785	16
	5825	17
802.11ax 40M	5190	12
	5230	12
	5755	13
	5795	14
802.11ax 80M	5210	10
	5775	11

WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0
802.11ac VHT20 mode: MCS0
802.11ac VHT40 mode: MCS0
802.11ac VHT80 mode: MCS0
802.11ax HE20 mode: MCS0
802.11ax HE40 mode: MCS0
802.11ax HE80 mode: MCS0

802.11a supports SISO mode only.

802.11n HT20/HT40/ac VHT20/VHT40/VHT80/ax HE20/HE40/HE80 support SISO and MIMO mode.

802.11n/ac/ax SISO mode and MIMO mode have the same power setting, so only the worst case power mode(MIMO) will be record in the report.

802.11ac VHT20 and VHT40 mode are different from 802.11nHT20 and HT40 only in control messages, so for these 4 modes, only 802.11n HT20 and 802.11n HT40 worst case power modes radiated emission test data are recorded in the report.

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

Conducted output power, power spectral density tests separately on each port with all supported SISO & MIMO port combinations.

Radiated emissions tests were performed with the MIMO modes. These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
0	5150-5850	FPC antenna	1.77
1	5150-5850	FPC antenna	1.95

Note: The antenna gain is provided by clients.

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following method.

For output power measurements:

Directional gain= $G_{ANT} + \text{Array Gain} = 1.95 \text{ dBi}$

G_{ANT} : equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:

Directional gain= $G_{ANT} + \text{Array Gain} = 4.96 \text{ dBi}$

Array Gain = $10 \log(N_{ANT}/N_{SS}) \text{ dB}$.

N_{ANT} : number of transmit antennas

N_{SS} : number of spatial streams, The worst case directional gain will occur when $N_{SS} = 1$

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.
802.11n HT20	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.
802.11n HT40	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT20	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT40	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT80	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.
802.11ax HE20	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.
802.11ax HE40	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.
802.11ax HE80	☒ 2TX, 2RX	ANT 0 or ANT 1 can be used as transmitting/receiving antenna.

Note:

1.Only BT&WLAN 2.4G, BT & WLAN 5G can transmit simultaneously. (declared by client)

2.For transmit simultaneously mode, the pre-scan results showed no worse test results, so only the normal mode test data is recorded in the report.

5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/
2	AC Adaptor	Lenovo	ADLX65YDC3D	Input: AC 100-240V, 1.8A, 50-60Hz Output: DC 20V, 3.25A, 65.0W Max

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

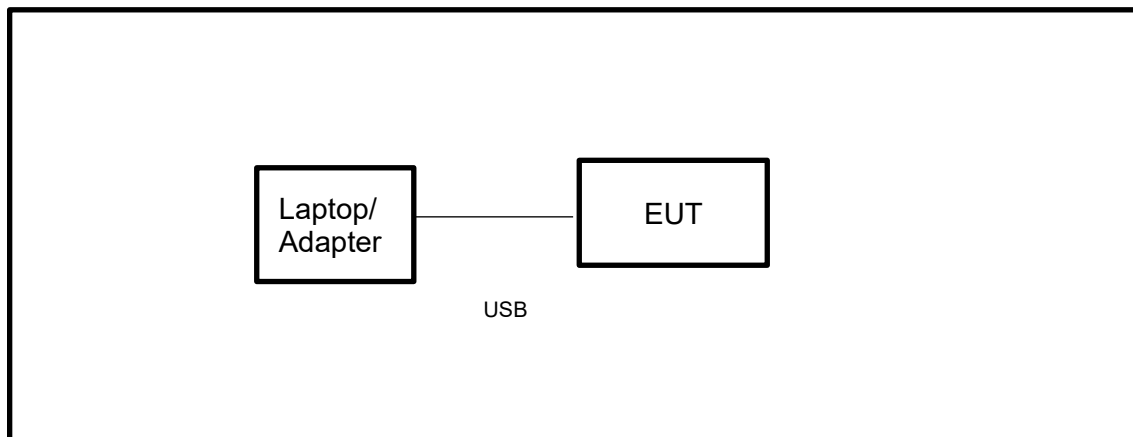
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS



Note: The AC Adapter is used in AC Power Line Conducted Emission test only.

6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Dec.26,2025	Dec.25,2026
Vector Signal Generator	R&S	SMBV100A	261637	Sep.12, 2025	Sep.11, 2026
Signal Generator	R&S	SMB100A	178553	Sep.12, 2025	Sep.11, 2026
Signal Analyzer	R&S	FSV40	101118	Sep.12, 2025	Sep.11, 2026
Software					
Description		Manufacturer	Name		Version
For R&S TS 8997 Test System		Rohde & Schwarz	EMC 32		10.60.10
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.12, 2025	Sep.11, 2026
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.12, 2025	Sep.11, 2026
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Sep.12, 2025	Sep.11, 2026
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Sep.12, 2025	Sep.11, 2026
DC power supply	TSSTAKASAGO	ZX-400L	409150160137	Sep.12, 2025	Sep.11, 2026
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Sep.12, 2025	Sep.11, 2026
Attenuator	Aglient	8495B	2814a12853	Sep.12, 2025	Sep.11, 2026
RF Control Unit	Tonscend	JS0806-2	23B80620666	Dec.26,2025	Dec.25,2026
Software					
Description	Manufacturer	Name			Version
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System			V3.2.22

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Sep.12, 2025	Sep.11, 2026
Two-Line V-Network	R&S	ENV216	101983	Sep.12, 2025	Sep.11, 2026
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep.12, 2025	Sep.11, 2026
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.12, 2025	Sep.11, 2026
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.12, 2025	Sep.11, 2026
EMI Measurement Receiver	R&S	ESR26	101377	Sep.12, 2025	Sep.11, 2026
Horn Antenna	TDK	HRN-0118	130940	Dec.10, 2024	Dec.11, 2027
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.12, 2025	Sep.11, 2026
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.12, 2025	Sep.11, 2026
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.12, 2025	Sep.11, 2026
Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08, 2027
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Sep.12, 2025	Sep.11, 2026
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Sep.12, 2025	Sep.11, 2026
Band Reject Filter	Wainwright	WRCD5-1879-1879.85-1880.15-1881-40SS	1	Sep.12, 2025	Sep.11, 2026
Notch Filter	Wainwright	WHJ10-882-980-7000-40SS	1	Sep.12, 2025	Sep.11, 2026

Software			
Description	Manufacturer	Name	Version
Test Software for Radiated Emissions	Farad	EZ-EMC	Ver. UL-3A1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Sep.16, 2025	Sep.15, 2026
Barometer	Yiyi	Baro	N/A	Sep.19, 2025	Sep.18, 2026
Attenuator	Agilent	8495B	2814a12853	Sep.12, 2025	Sep.11, 2026

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

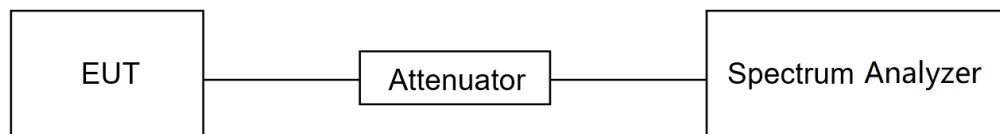
None; for reporting purposes only.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value. Set VBW $\geq$ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST SETUP



TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	62.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 5V

TEST DATE / ENGINEER

Test Date	June 4, 2026	Test By	Eason He
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TEST RESULTS

Please refer to section "Test Data" - Appendix G

7.2. 6DB AND 26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

FCC 47 CFR Part15 Subpart E		
Test Item	Limit	Frequency Range (MHz)
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825 (For ISSED)

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

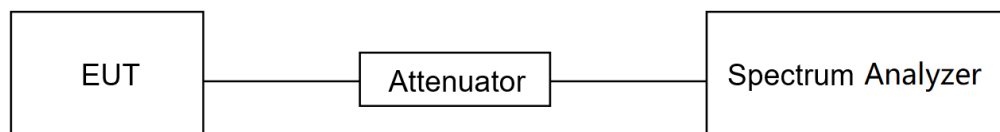
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 26 dB Bandwidth: $> 3 \times \text{RBW}$ For 99 % Bandwidth: $> 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and 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 6/26 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	62.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 5V

TEST DATE / ENGINEER

Test Date	June 4, 2026	Test By	Eason He
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TEST RESULTS

Please refer to section "Test Data" - Appendix A&B&C

7.3. CONDUCTED OUTPUT POWER

LIMITS

FCC 47 CFR Part15 Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	☐ Outdoor Access Point: 1 W (30 dBm) ☐ Indoor Access Point: 1 W (30 dBm) ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) ☒ Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

Note:

The above limits are based upon 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.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-2 (trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.):

- Measure the duty cycle D of the transmitter output signal.
- Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- Do not use sweep triggering. Allow the sweep to "free run."
- Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.
- Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1 / 0.25)] = 6$ dB if the duty cycle is 25%.

Method PM (Measurement using an RF average power meter):

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

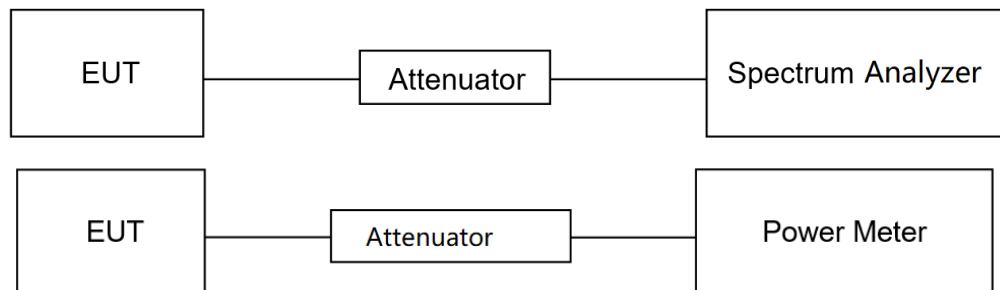
(ii) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25 %).

Note: Method SA-2 was used for straddle channel output power test, and Method PM was used for testing rest channels

TEST SETUP



TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	62.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 5V

TEST DATE / ENGINEER

Test Date	June 4, 2026	Test By	Eason He
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TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. POWER SPECTRAL DENSITY

LIMITS

FCC 47 CFR Part15 Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	☐ Outdoor Access Point: 17 dBm/MHz ☐ Indoor Access Point: 17 dBm/MHz ☐ Fixed Point-To-Point Access Points: 17 dBm/MHz ☒ Client Devices: 11 dBm/MHz	5150 ~ 5250
	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

Connect the EUT to the spectrum analyzer and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

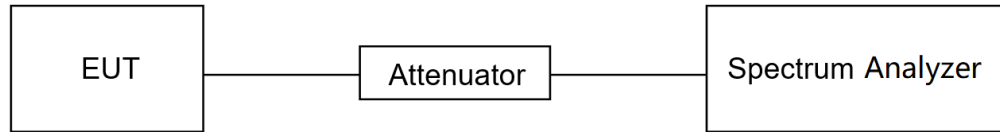
Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Average
Sweep time	Auto

For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Average
Sweep time	Auto

Allow trace to fully stabilize and use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP**TEST ENVIRONMENT**

Temperature	22.1°C	Relative Humidity	62.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 5V

TEST DATE / ENGINEER

Test Date	June 4, 2026	Test By	Eason He
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TEST RESULTS

Please refer to section "Test Data" - Appendix E

7.5. FREQUENCY STABILITY

LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

TEST PROCEDURE

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between 0 °C ~ 40 °C (declared by customer).
2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

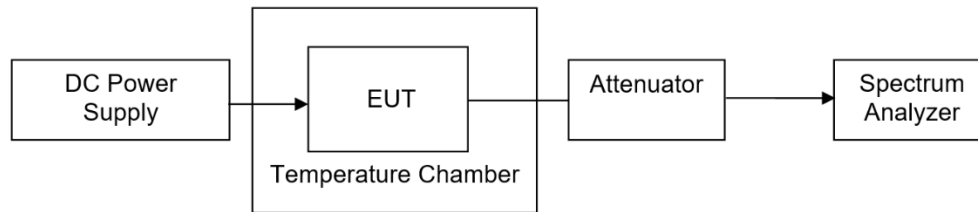
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST ENVIRONMENT

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	20 % ~ 75 %	/
Atmospheric Pressure	100 kPa ~ 102 kPa	/
Temperature	T_N (Normal Temperature): 25.1 °C	T_L (Low Temperature): 0 °C
		T_H (High Temperature): 40 °C
Supply Voltage	V_N (Normal Voltage): DC 5V	V_L (Low Voltage): DC 4.25 V
		V_H (High Voltage): DC 5.75 V

TEST SETUP**TEST ENVIRONMENT**

Temperature	22.1℃	Relative Humidity	62.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 5V

TEST DATE / ENGINEER

Test Date	June 4, 2026	Test By	Eason He
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TEST RESULTS

Please refer to section "Test Data" - Appendix F

8. RADIATED TEST RESULTS

LIMITS

Refer to FCC 47 CFR §15.205, §15.209 and §15.407 (b).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
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

FCC Restricted bands of operation refer to FCC 47 CFR §15.205 (a):

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
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			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

Limits of unwanted/undesirable emission out of the restricted bands refer to FCC 47 CFR §15.407 (b)

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz		
5470~5725 MHz		
5725~5850 MHz	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits 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.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

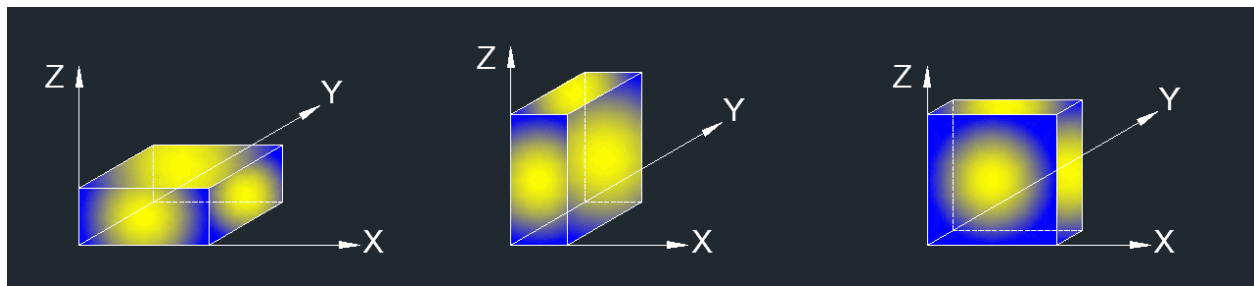
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (Z axis) data recorded in the report.

For Restricted Bandedge:

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 7 GHz):

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (7 GHz ~ 18 GHz):

Note:

1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
9. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

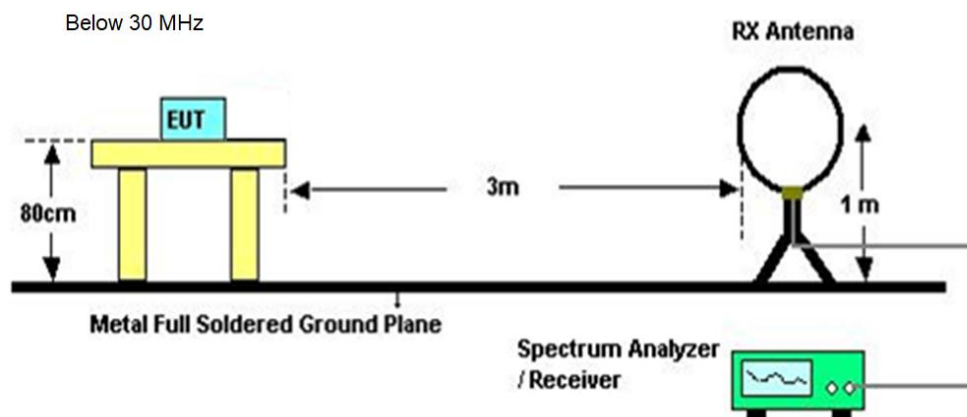
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (26 GHz ~ 40 GHz):

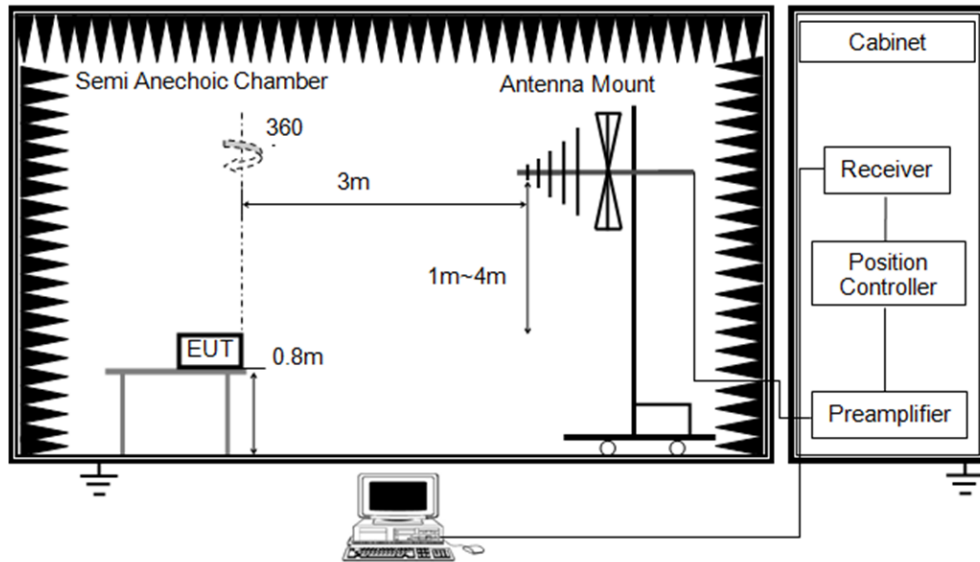
Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

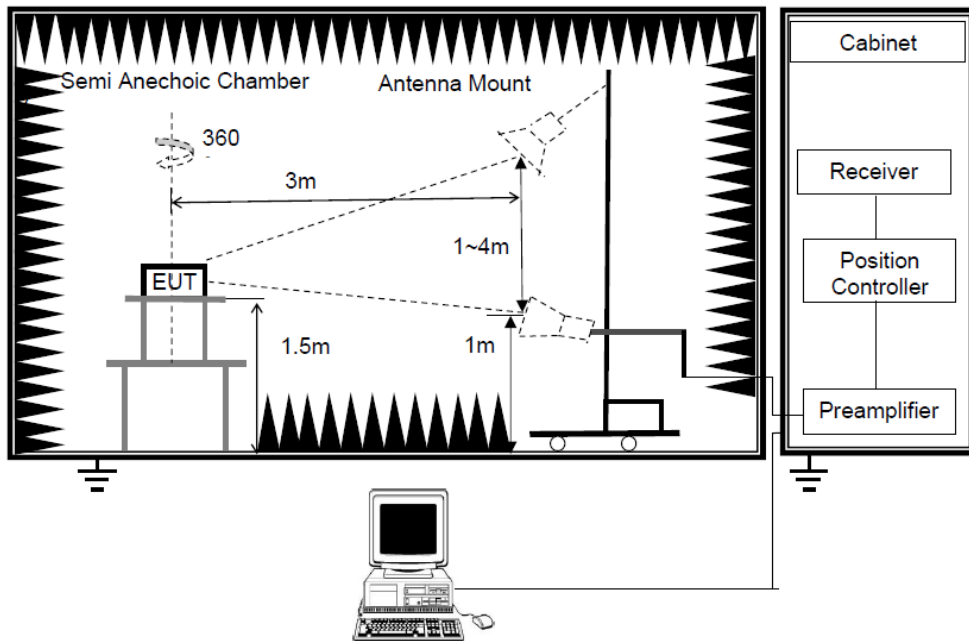
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	21.2°C	Relative Humidity	61.8%
Atmosphere Pressure	101kPa	Test Voltage	

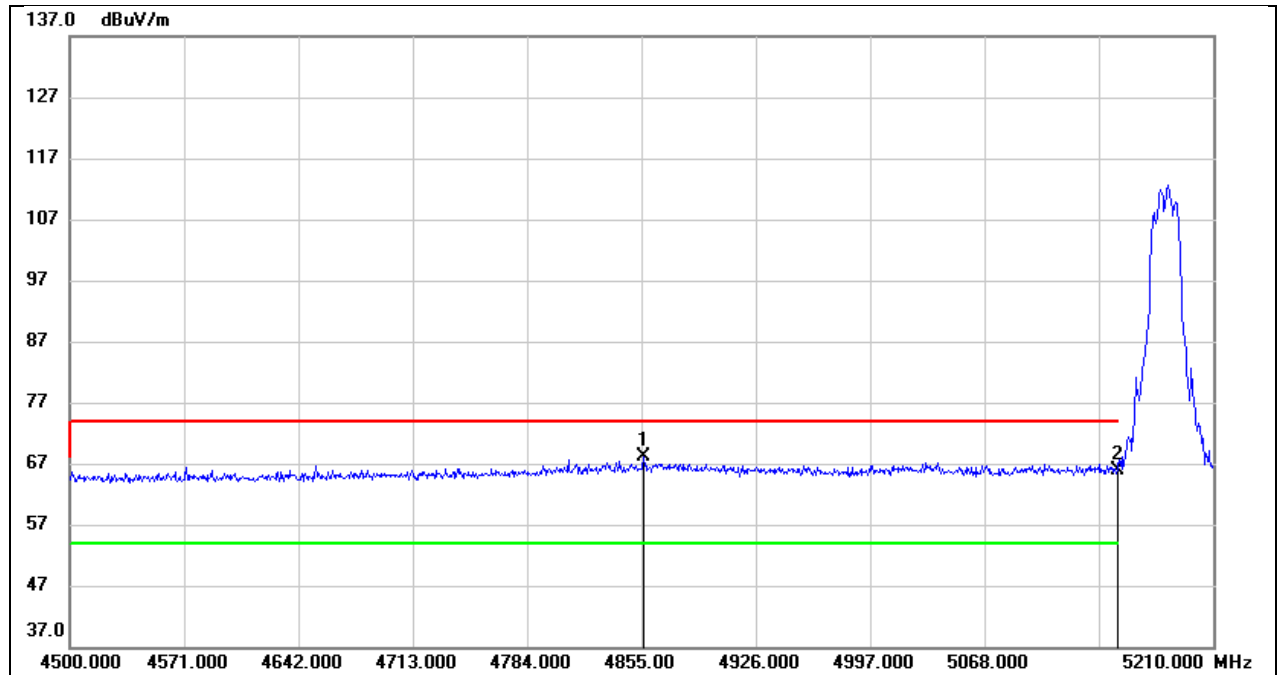
TEST DATE / ENGINEER

Test Date	June 4, 2026	Test By	Mason Wang
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TEST RESULTS

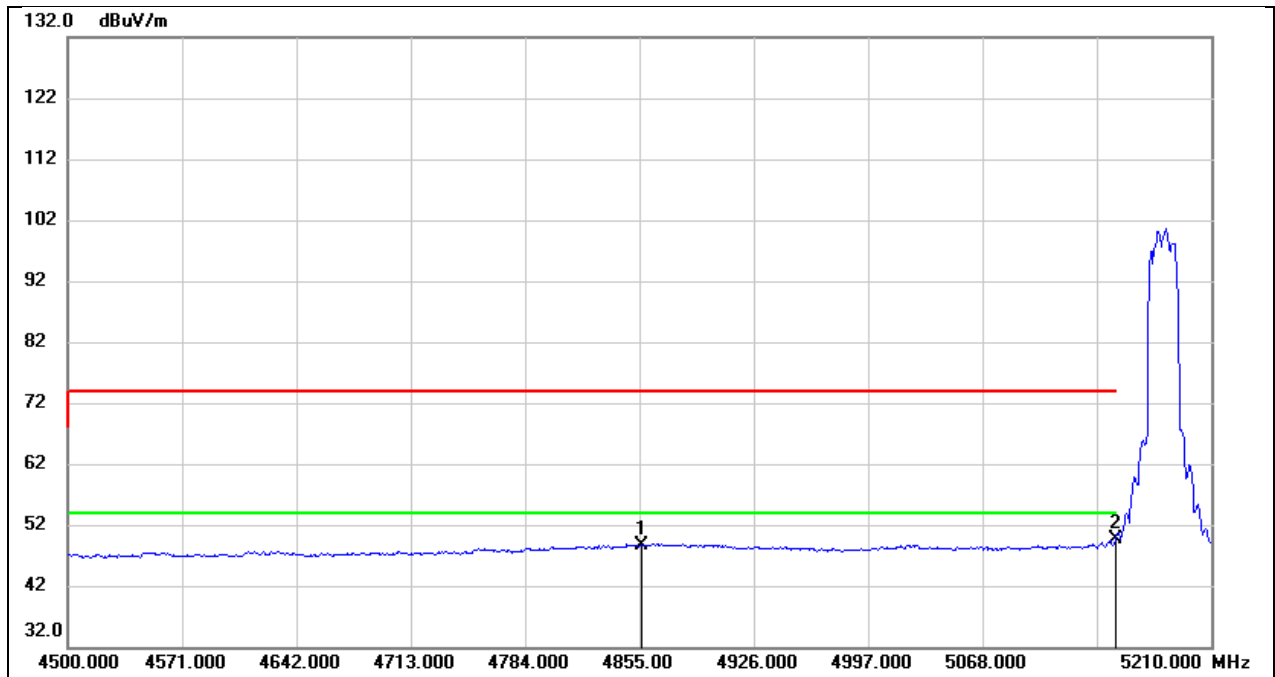
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11a 20 PK	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 5V



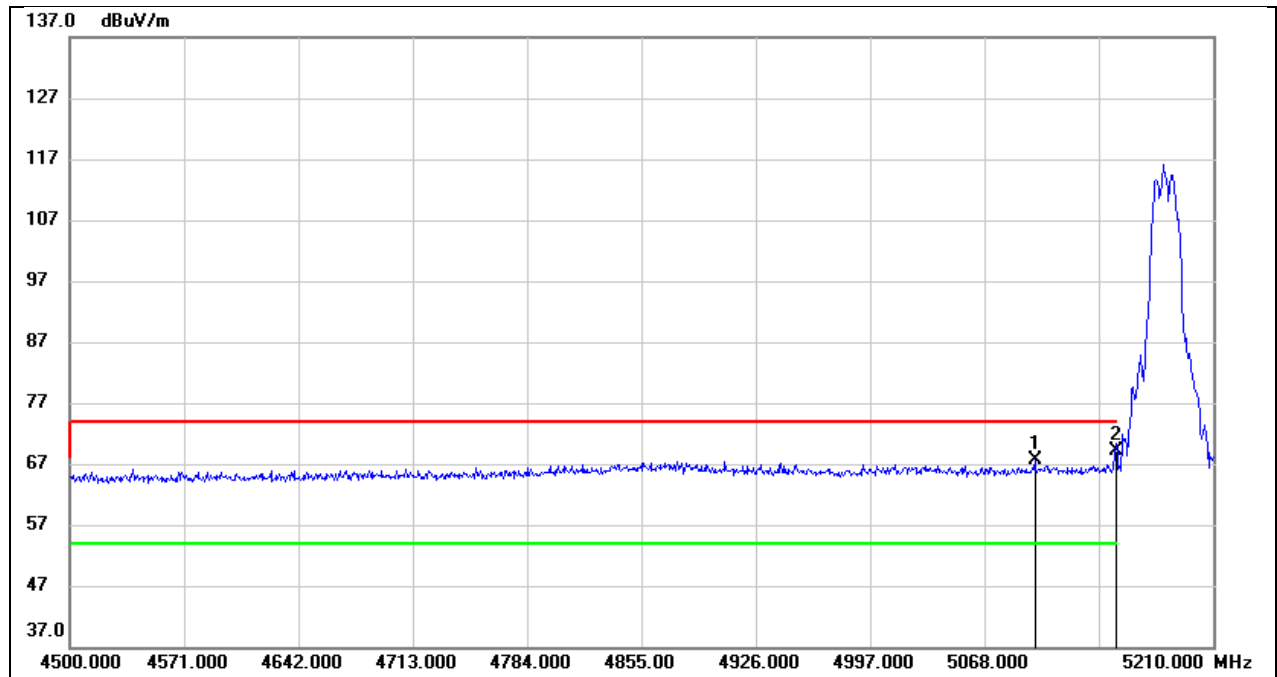
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4856.420	28.79	39.35	68.14	74.00	-5.86	peak
2	5150.000	26.00	39.77	65.77	74.00	-8.23	peak

Test Mode:	802.11a 20 AV	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 5V



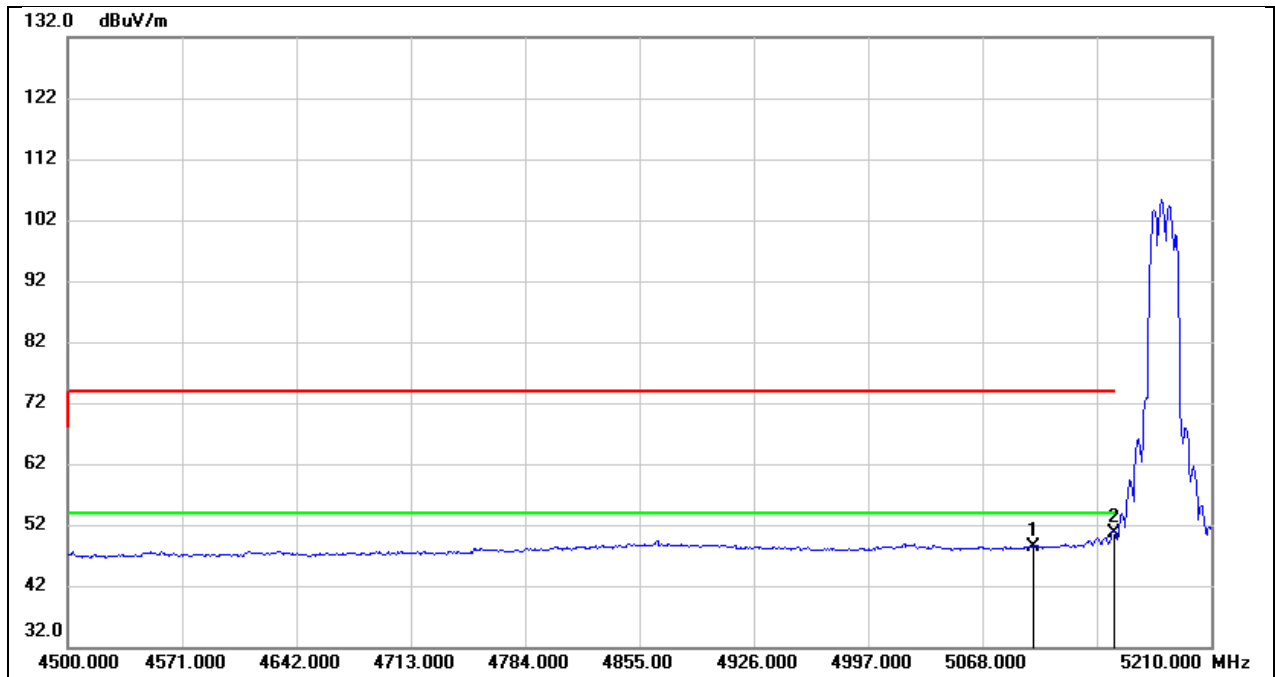
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4856.420	9.29	39.35	48.64	54.00	-5.36	AVG
2	5150.000	9.86	39.77	49.63	54.00	-4.37	AVG

Test Mode:	802.11a 20 PK	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC 5V



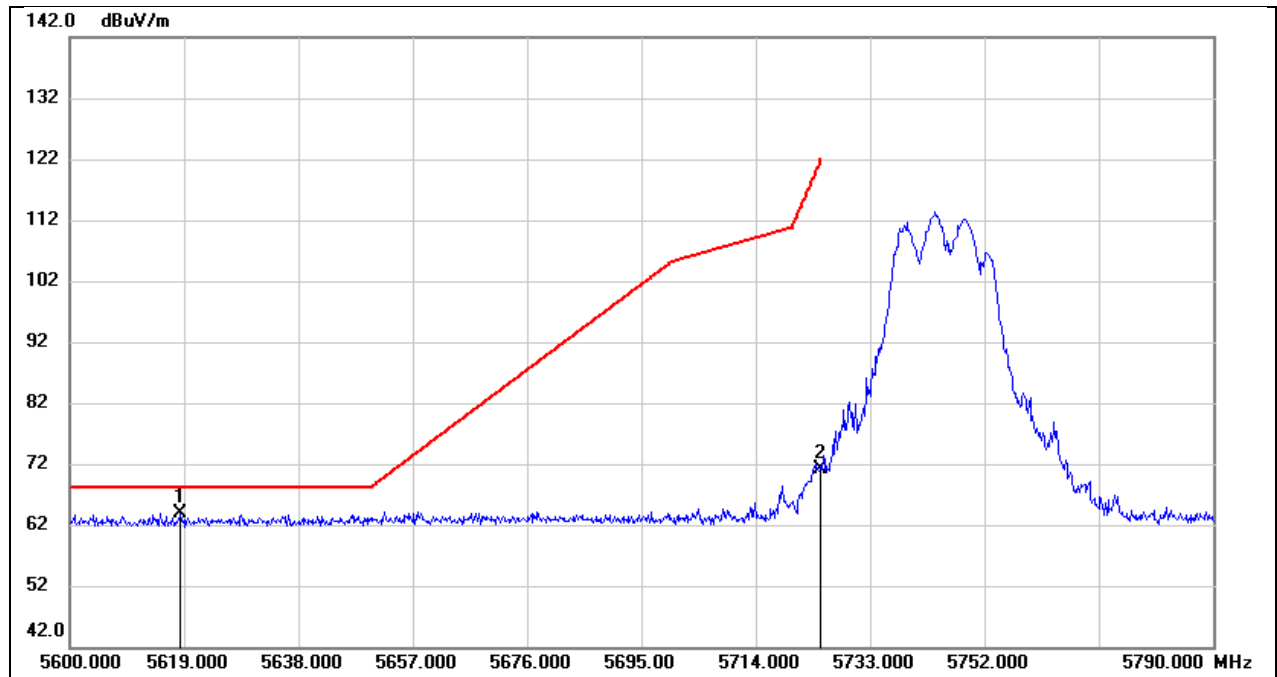
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5099.240	27.88	39.72	67.60	74.00	-6.40	peak
2	5150.000	29.30	39.77	69.07	74.00	-4.93	peak

Test Mode:	802.11a 20 AV	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC 5V



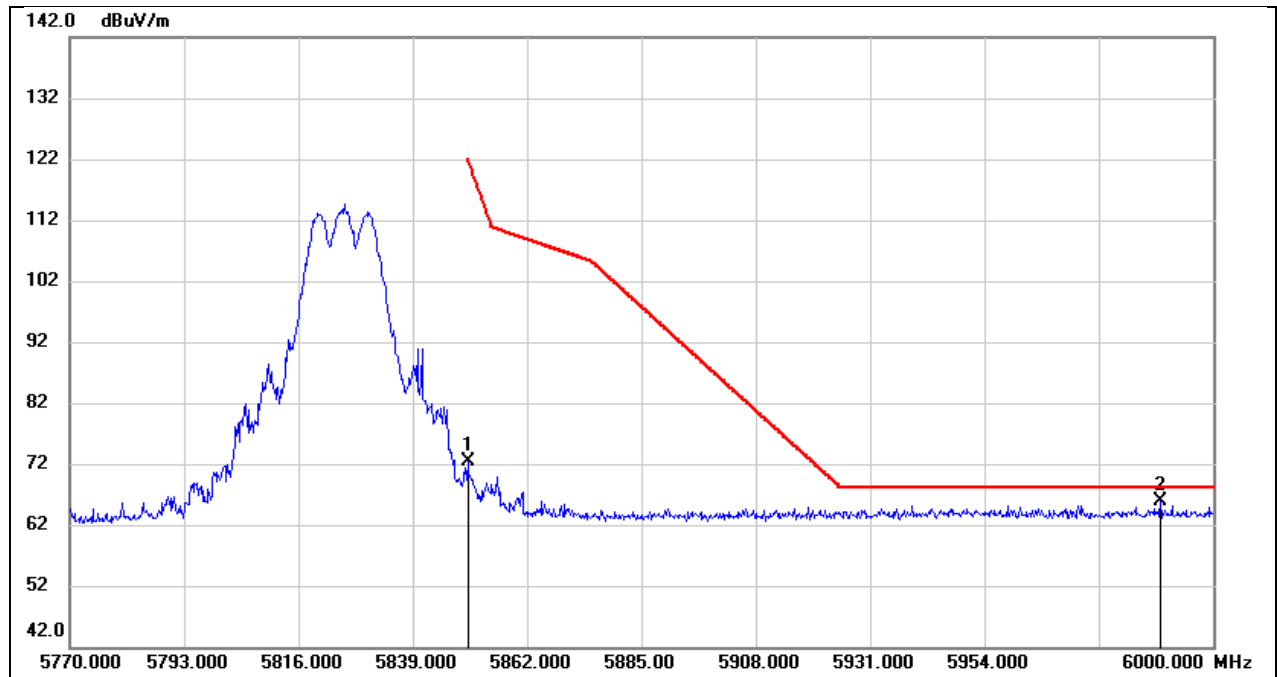
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5099.240	8.71	39.72	48.43	54.00	-5.57	AVG
2	5150.000	10.88	39.77	50.65	54.00	-3.35	AVG

Test Mode:	802.11a 20 PK	Frequency(MHz):	5745
Polarity:	Vertical	Test Voltage:	DC 5V



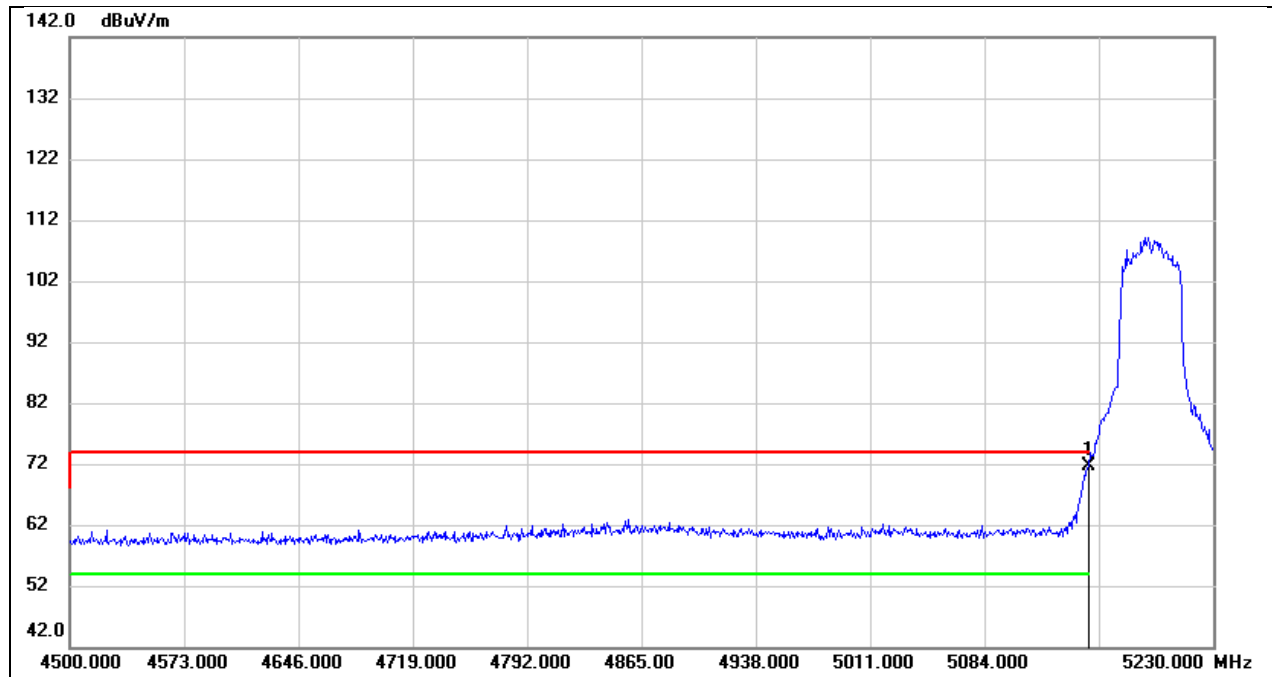
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5618.430	23.21	40.73	63.94	68.20	-4.26	peak
2	5725.000	30.26	40.78	71.04	122.20	-51.16	peak

Test Mode:	802.11a 20 PK	Frequency(MHz):	5825
Polarity:	Vertical	Test Voltage:	DC 5V



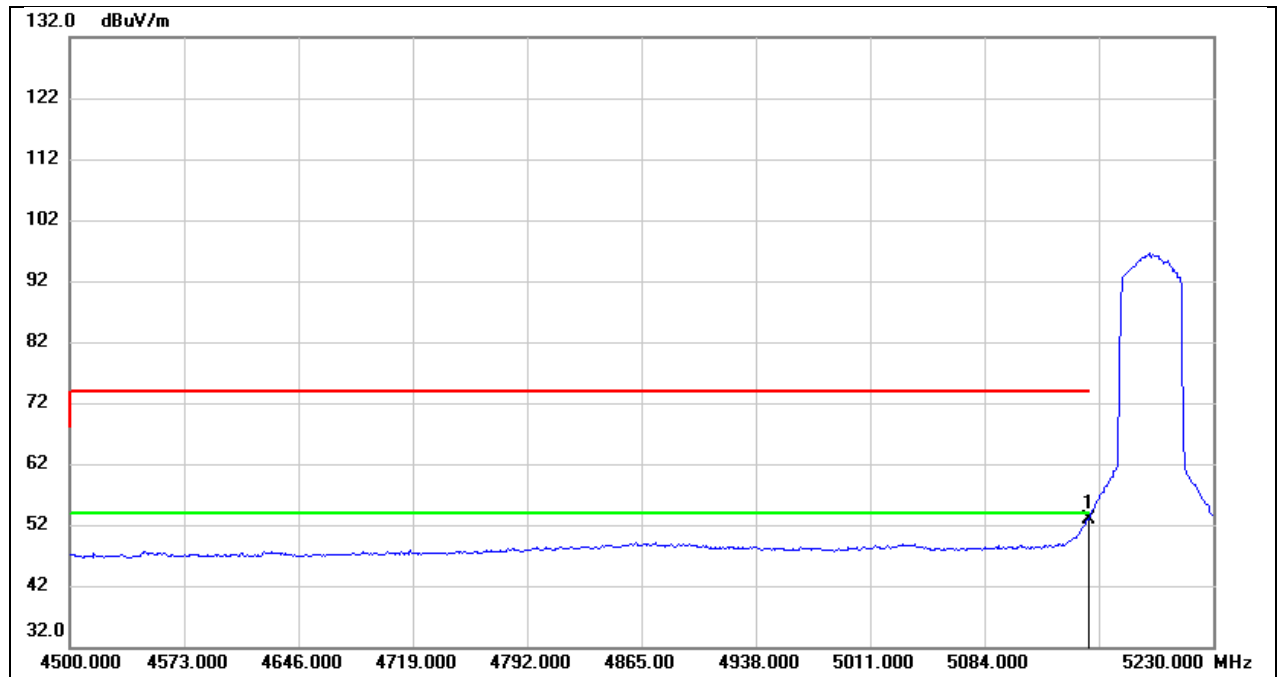
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	31.39	40.92	72.31	122.20	-49.89	peak
2	5989.420	24.59	41.19	65.78	68.20	-2.42	peak

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5190
Polarity:	Vertical	Test Voltage:	DC 5V



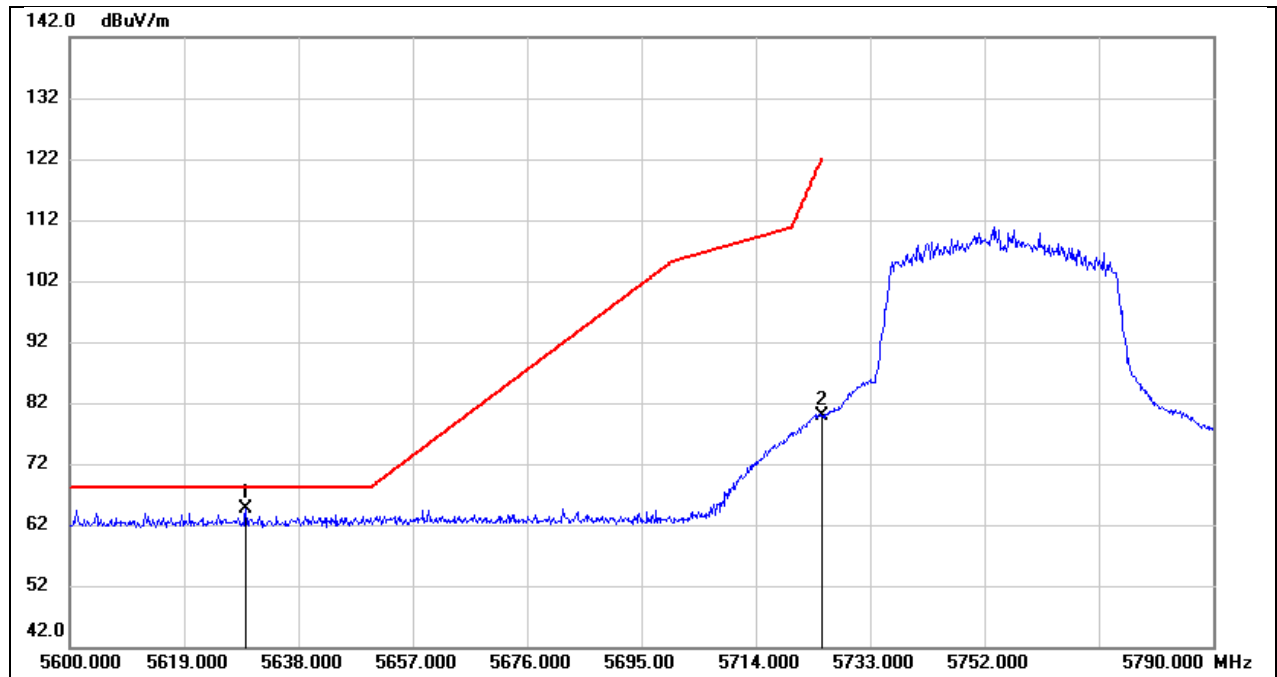
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	31.82	39.77	71.59	74.00	-2.41	peak

Test Mode:	802.11ax HE40 AV	Frequency(MHz):	5190
Polarity:	Vertical	Test Voltage:	DC 5V



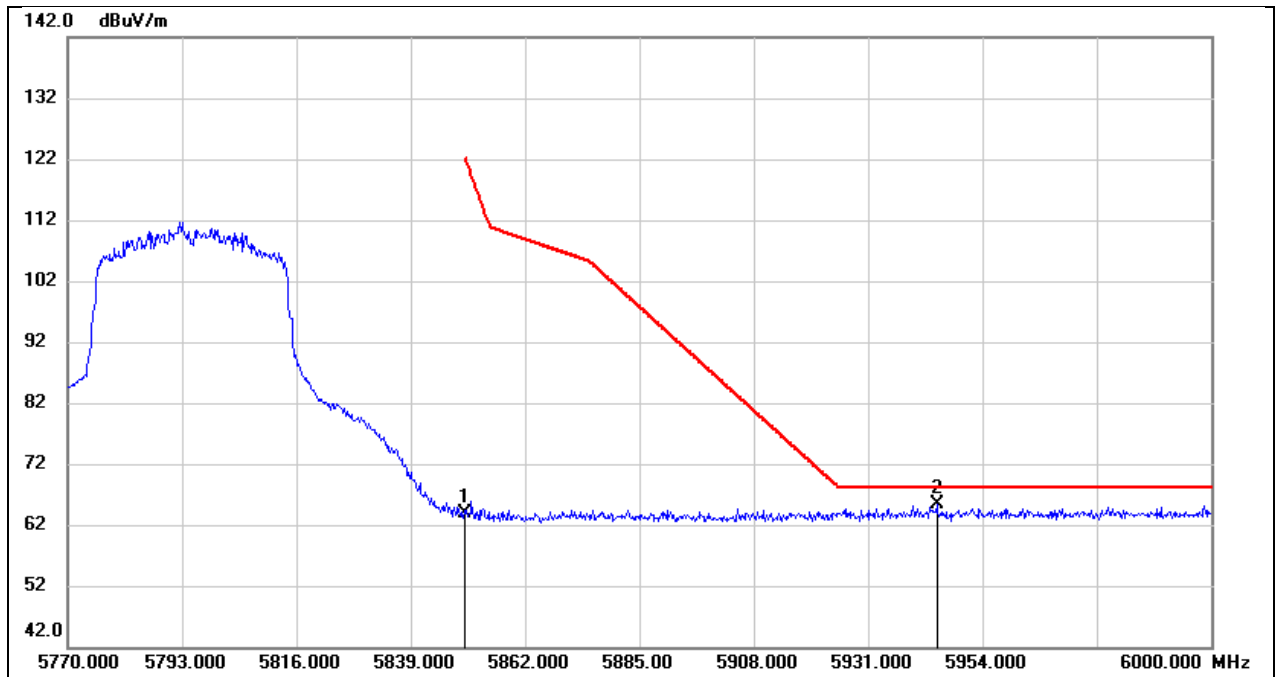
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	13.10	39.77	52.87	54.00	-1.13	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5755
Polarity:	Vertical	Test Voltage:	DC 5V



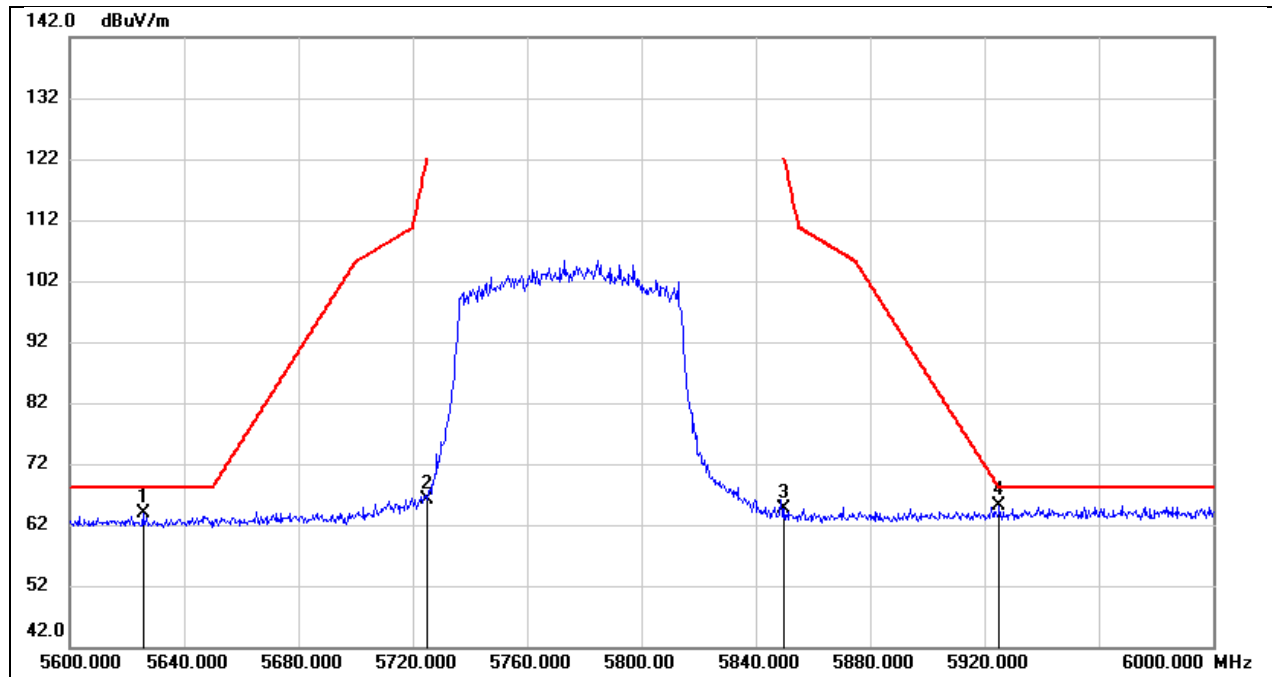
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5629.260	23.81	40.74	64.55	68.20	-3.65	peak
2	5725.000	39.15	40.78	79.93	122.20	-42.27	peak

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	5795
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	23.03	40.92	63.95	122.20	-58.25	peak
2	5944.800	24.24	41.10	65.34	68.20	-2.86	peak

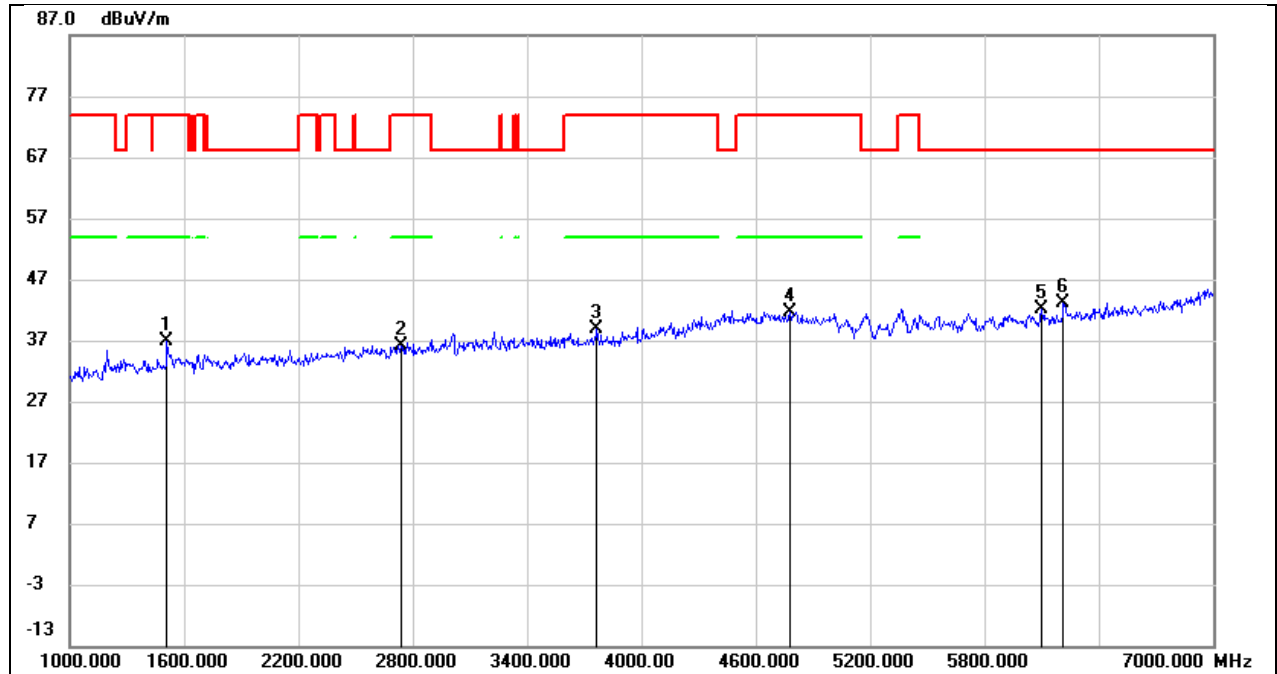
Test Mode:	802.11ax HE80 PK	Frequency(MHz):	5775
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5625.600	23.07	40.74	63.81	68.20	-4.39	peak
2	5725.000	25.39	40.78	66.17	122.20	-56.03	peak
3	5850.000	23.60	40.92	64.52	122.20	-57.68	peak
4	5925.200	24.12	41.07	65.19	68.20	-3.01	peak

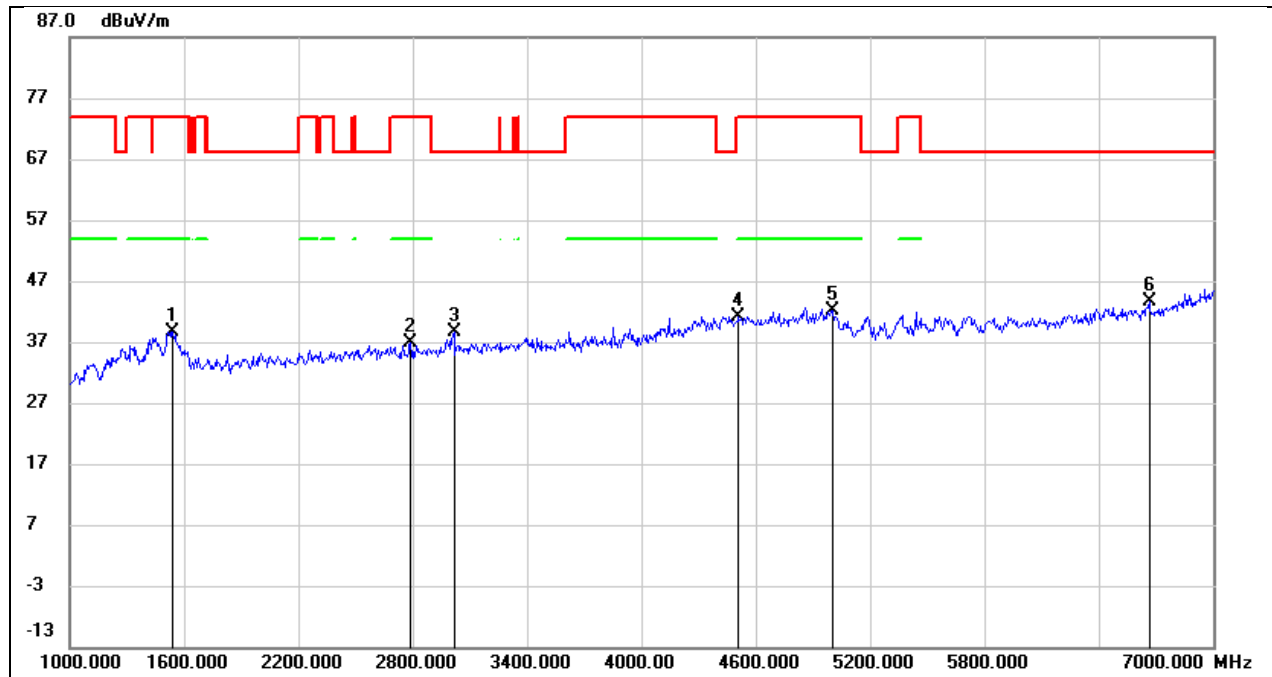
8.2. SPURIOUS EMISSIONS(1 GHZ~7 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1510.000	48.42	-11.60	36.82	74.00	-37.18	peak
2	2740.000	43.21	-7.02	36.19	74.00	-37.81	peak
3	3766.000	42.88	-4.00	38.88	74.00	-35.12	peak
4	4780.000	41.09	0.56	41.65	74.00	-32.35	peak
5	6100.000	39.08	3.01	42.09	68.20	-26.11	peak
6	6214.000	39.74	3.45	43.19	68.20	-25.01	peak

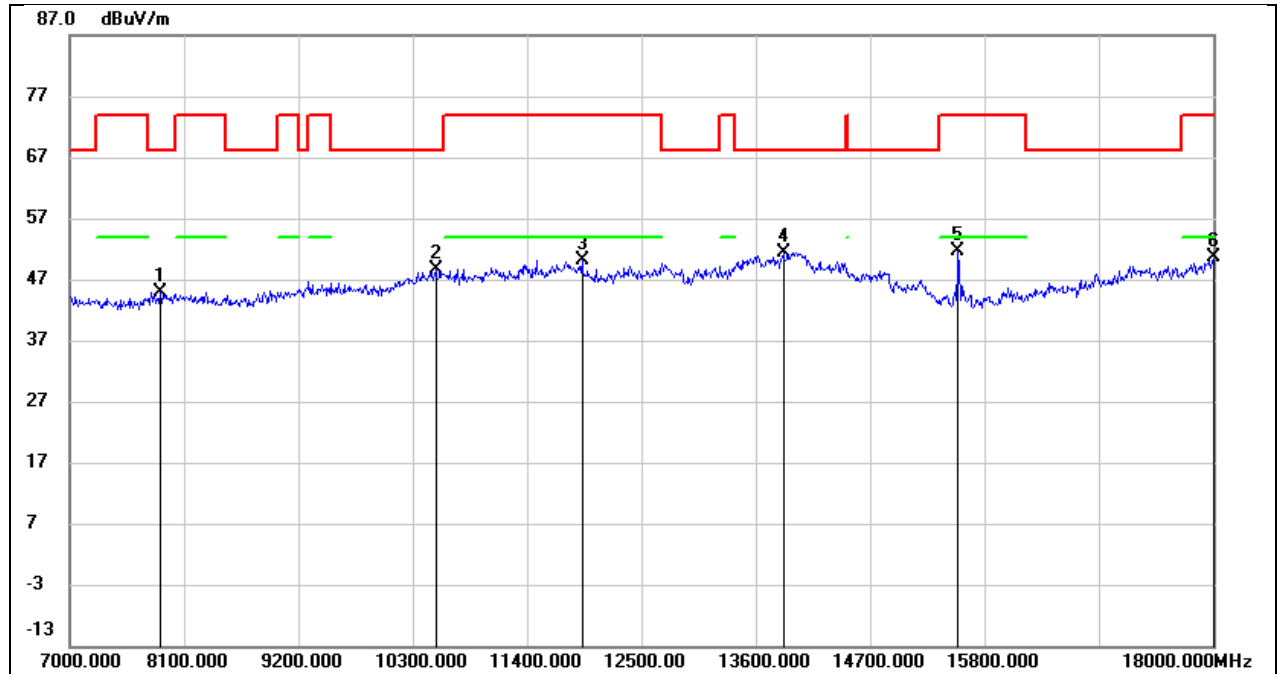
Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1540.000	50.18	-11.50	38.68	74.00	-35.32	peak
2	2788.000	43.74	-6.86	36.88	74.00	-37.12	peak
3	3016.000	44.61	-5.98	38.63	68.20	-29.57	peak
4	4510.000	40.93	0.28	41.21	74.00	-32.79	peak
5	5002.000	41.01	1.10	42.11	74.00	-31.89	peak
6	6664.000	38.66	5.07	43.73	68.20	-24.47	peak

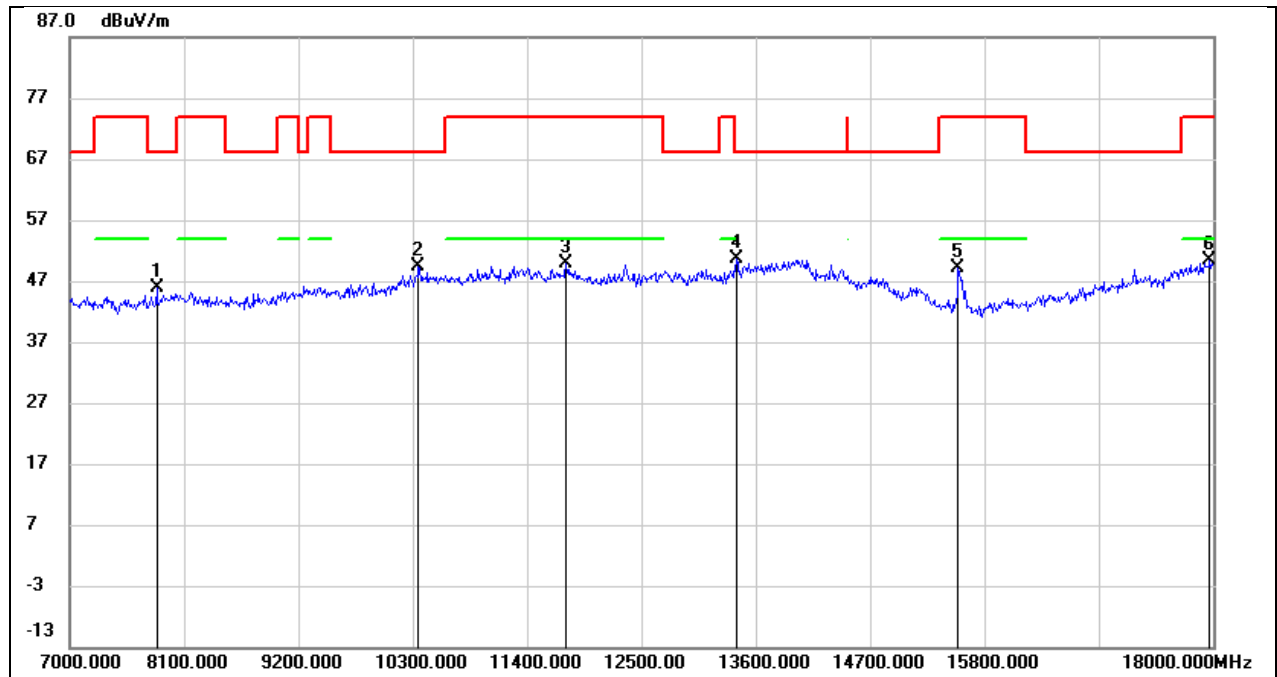
8.3. SPURIOUS EMISSIONS(7 GHZ~18 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 5V



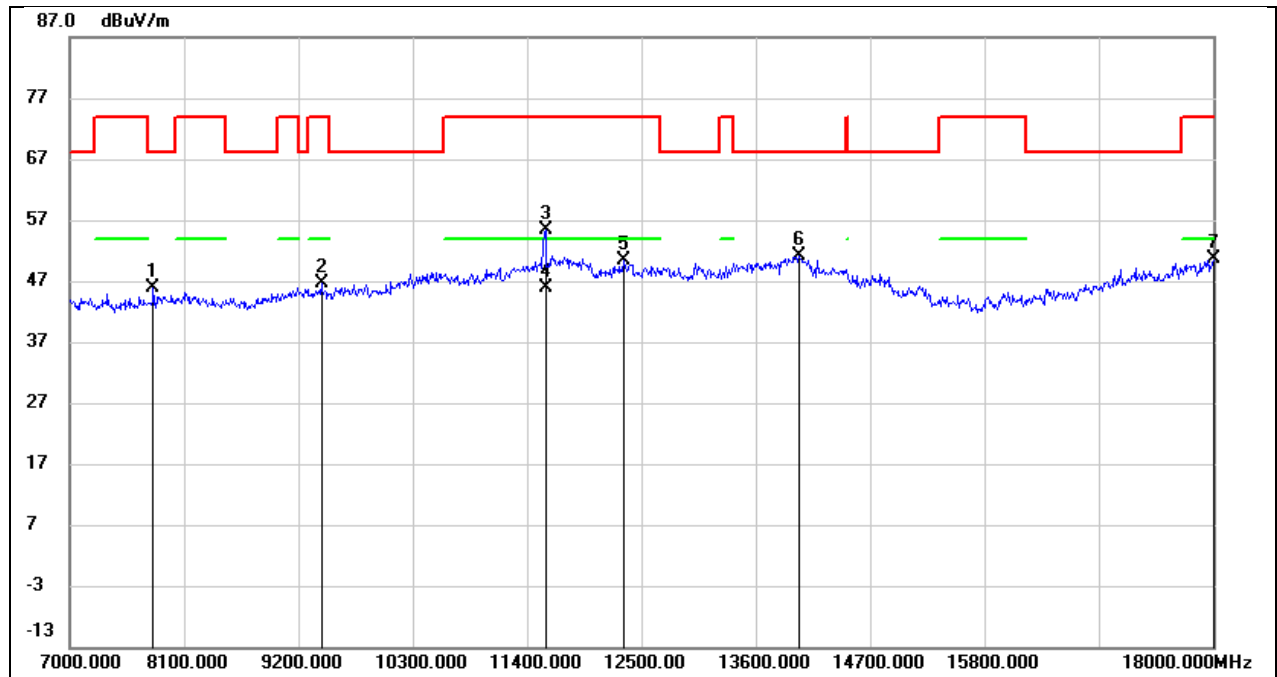
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7869.000	37.11	7.82	44.93	68.20	-23.27	peak
2	10520.000	34.65	13.95	48.60	68.20	-19.60	peak
3	11928.000	31.95	18.16	50.11	74.00	-23.89	peak
4	13864.000	28.08	23.40	51.48	68.20	-16.72	peak
5	15547.000	32.98	18.67	51.65	74.00	-22.35	peak
6	18000.000	22.17	28.37	50.54	74.00	-23.46	peak

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC 5V



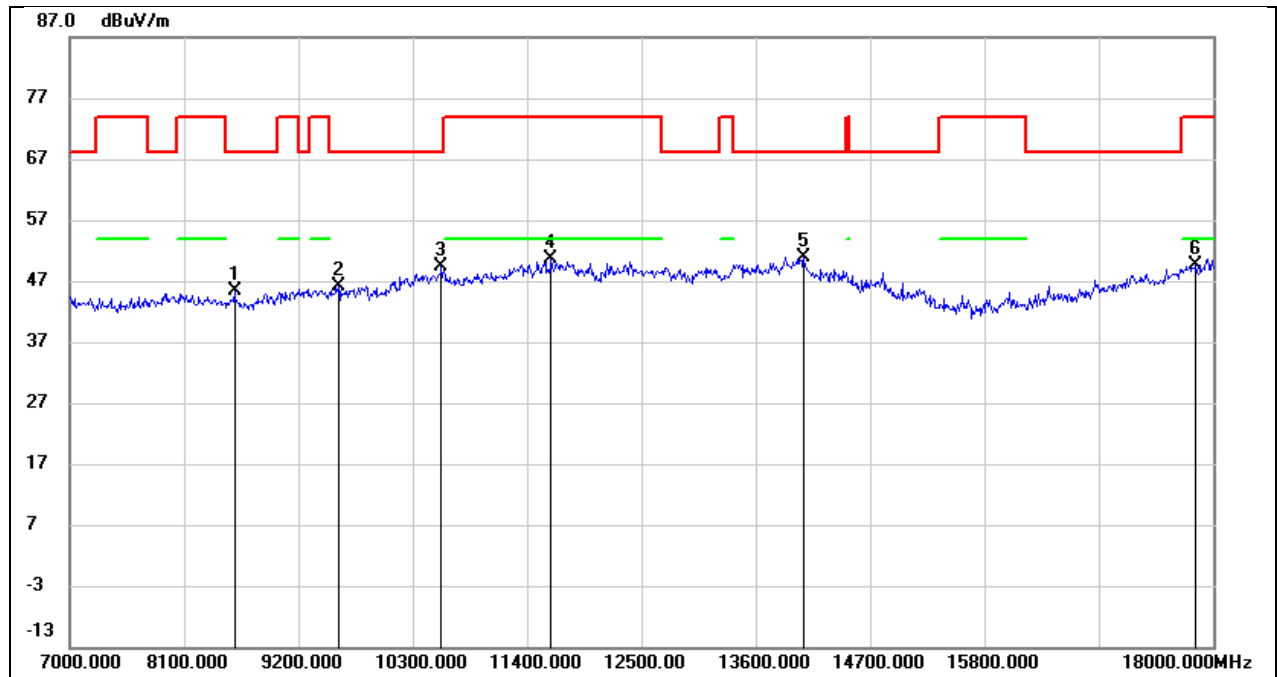
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.06	7.71	45.77	68.20	-22.43	peak
2	10355.000	35.98	13.52	49.50	68.20	-18.70	peak
3	11774.000	32.15	17.82	49.97	74.00	-24.03	peak
4	13413.000	28.66	22.00	50.66	68.20	-17.54	peak
5	15547.000	30.58	18.67	49.25	74.00	-24.75	peak
6	17967.000	22.24	28.09	50.33	74.00	-23.67	peak

Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Horizontal	Test Voltage:	DC 5V



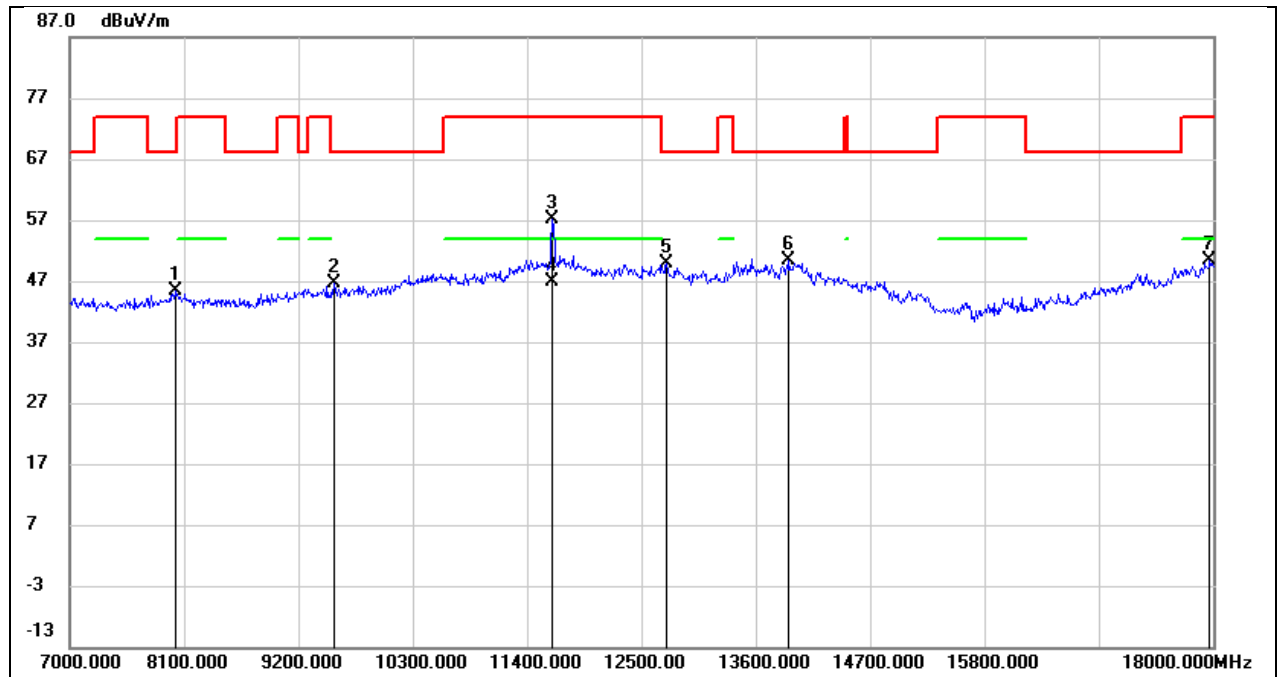
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7803.000	38.37	7.61	45.98	68.20	-22.22	peak
2	9425.500	35.91	10.82	46.73	74.00	-27.27	peak
3	11576.000	38.43	17.02	55.45	74.00	-18.55	peak
4	11576.000	28.85	17.02	45.87	54.00	-8.13	AVG
5	12324.000	31.29	19.00	50.29	74.00	-23.71	peak
6	14018.000	27.30	23.79	51.09	68.20	-17.11	peak
7	18000.000	22.15	28.37	50.52	74.00	-23.48	peak

Test Mode:	802.11a 20	Frequency(MHz):	5785
Polarity:	Vertical	Test Voltage:	DC 5V



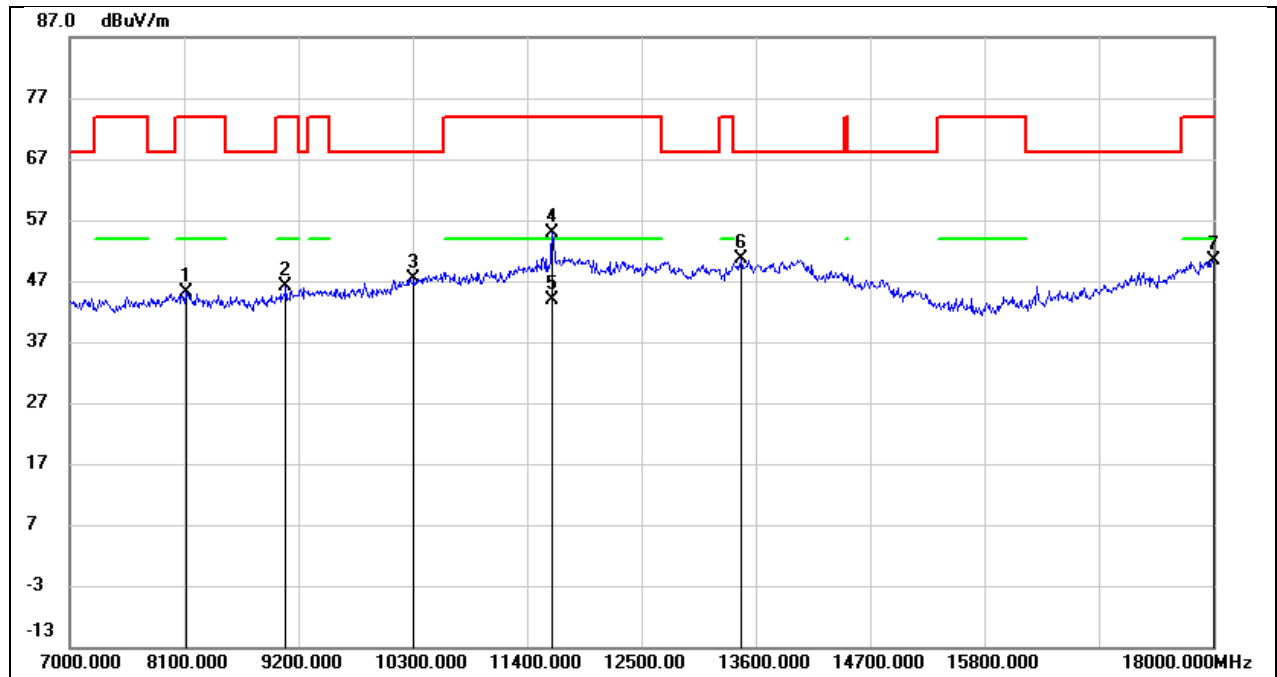
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8589.500	36.58	8.68	45.26	68.20	-22.94	peak
2	9590.500	34.93	11.32	46.25	68.20	-21.95	peak
3	10575.000	35.28	14.09	49.37	68.20	-18.83	peak
4	11636.500	33.52	17.22	50.74	74.00	-23.26	peak
5	14062.000	27.38	23.55	50.93	68.20	-17.27	peak
6	17835.000	22.80	26.93	49.73	74.00	-24.27	peak

Test Mode:	802.11a 20	Frequency(MHz):	5825
Polarity:	Horizontal	Test Voltage:	DC 5V



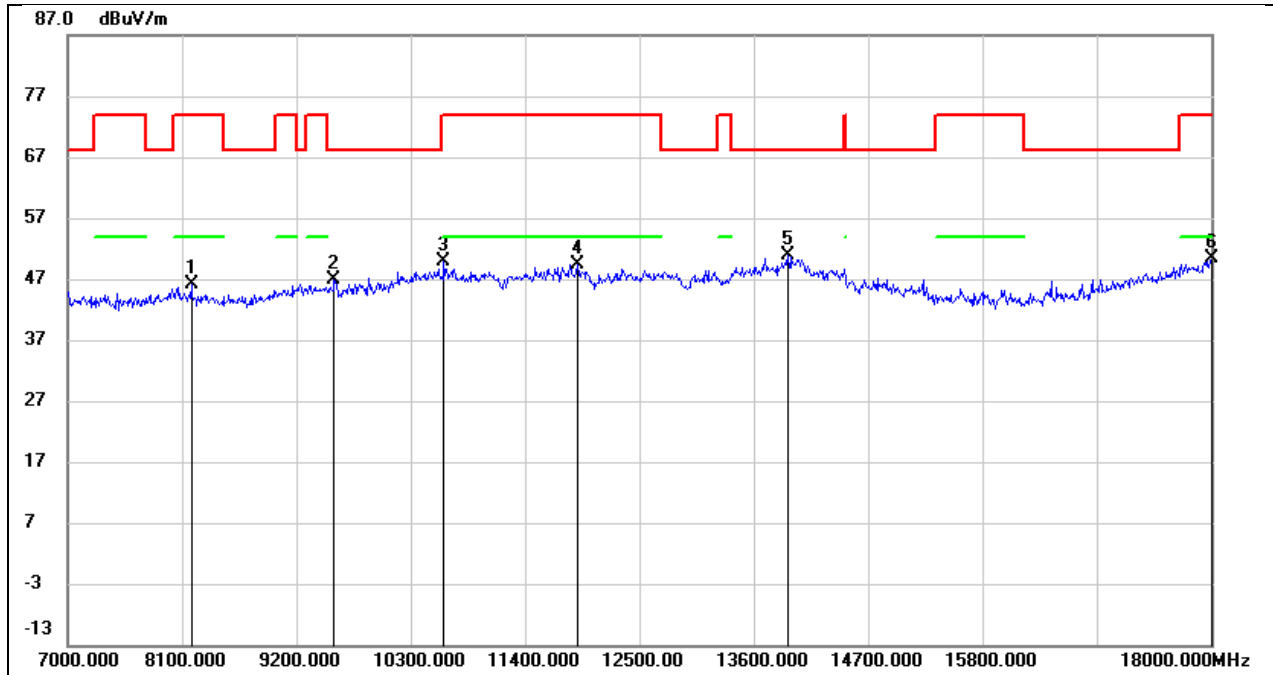
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8017.500	37.25	8.24	45.49	68.20	-22.71	peak
2	9541.000	35.55	11.17	46.72	68.20	-21.48	peak
3	11647.500	39.86	17.26	57.12	74.00	-16.88	peak
4	11647.500	29.65	17.26	46.91	54.00	-7.09	AVG
5	12747.500	30.54	19.44	49.98	68.20	-18.22	peak
6	13924.500	26.64	23.62	50.26	68.20	-17.94	peak
7	17967.000	22.36	28.09	50.45	74.00	-23.55	peak

Test Mode:	802.11a 20	Frequency(MHz):	5825
Polarity:	Vertical	Test Voltage:	DC 5V



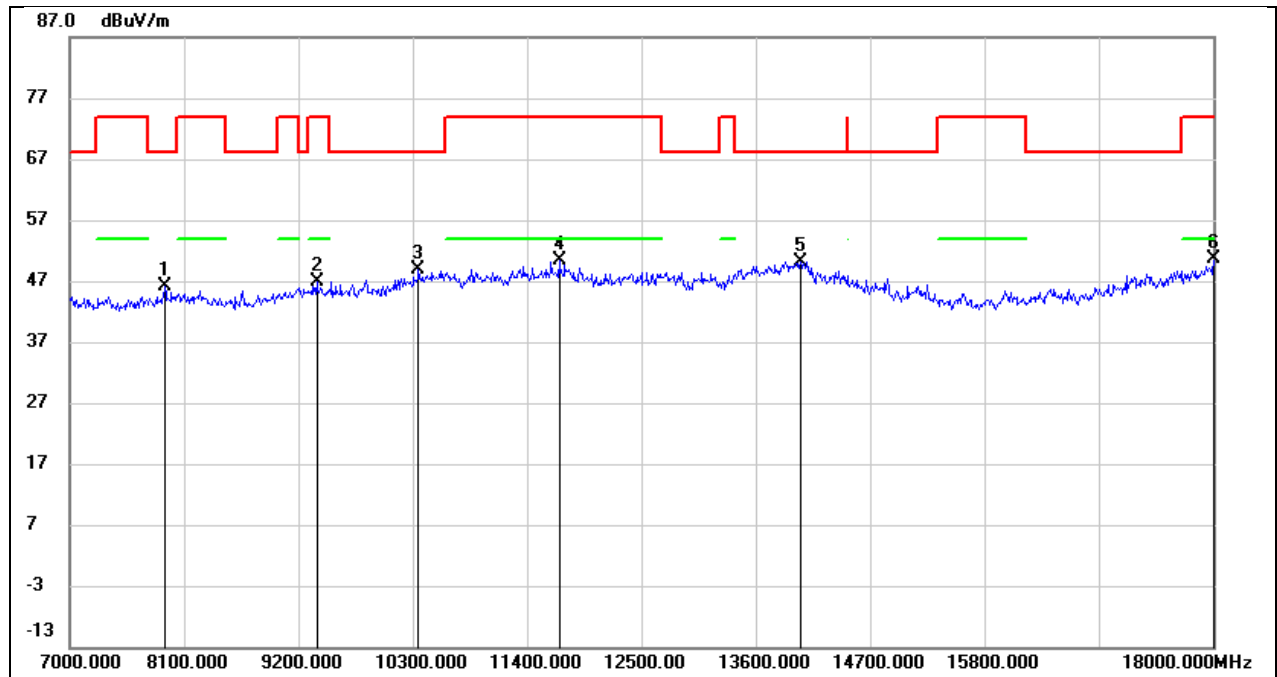
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8127.500	36.85	8.20	45.05	74.00	-28.95	peak
2	9079.000	36.48	9.75	46.23	74.00	-27.77	peak
3	10316.500	33.99	13.43	47.42	68.20	-20.78	peak
4	11647.500	37.69	17.26	54.95	74.00	-19.05	peak
5	11647.500	26.50	17.26	43.76	54.00	-10.24	AVG
6	13462.500	28.30	22.26	50.56	68.20	-17.64	peak
7	18000.000	22.08	28.37	50.45	74.00	-23.55	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	5190
Polarity:	Horizontal	Test Voltage:	DC 5V



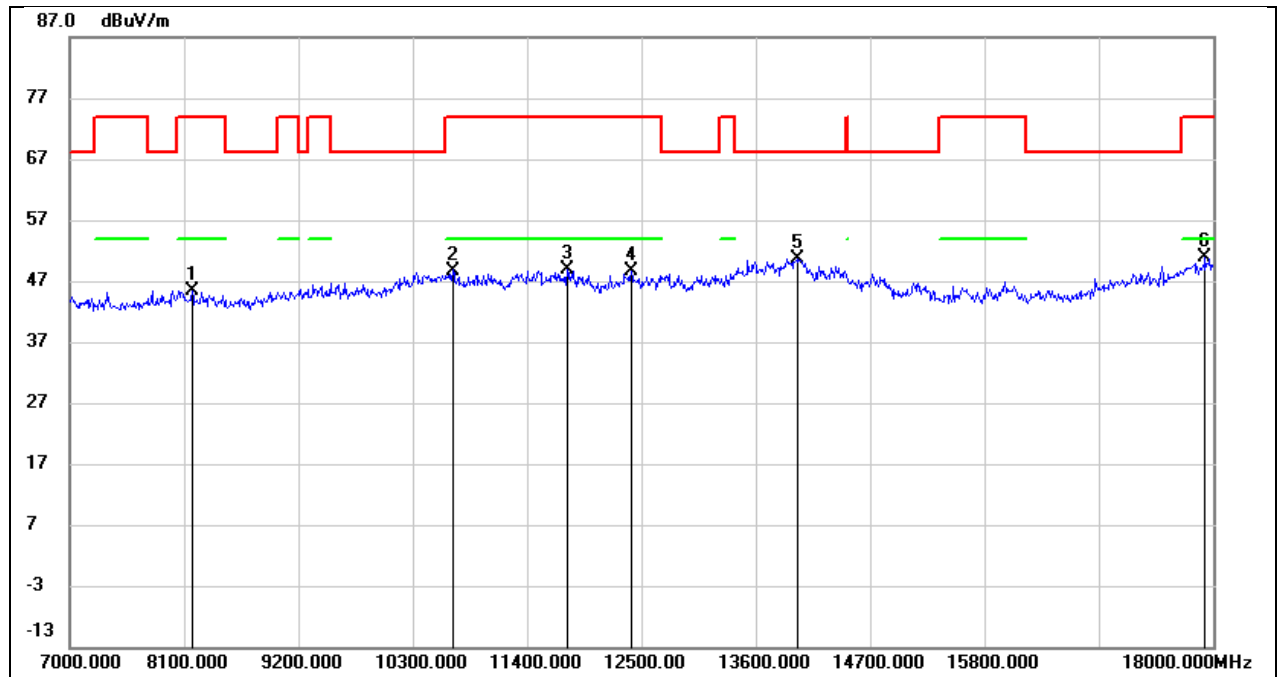
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8188.000	38.01	8.19	46.20	74.00	-27.80	peak
2	9563.000	35.68	11.24	46.92	68.20	-21.28	peak
3	10619.000	35.68	14.21	49.89	74.00	-24.11	peak
4	11906.000	31.36	18.13	49.49	74.00	-24.51	peak
5	13930.000	27.20	23.63	50.83	68.20	-17.37	peak
6	18000.000	22.11	28.37	50.48	74.00	-23.52	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	5190
Polarity:	Vertical	Test Voltage:	DC 5V



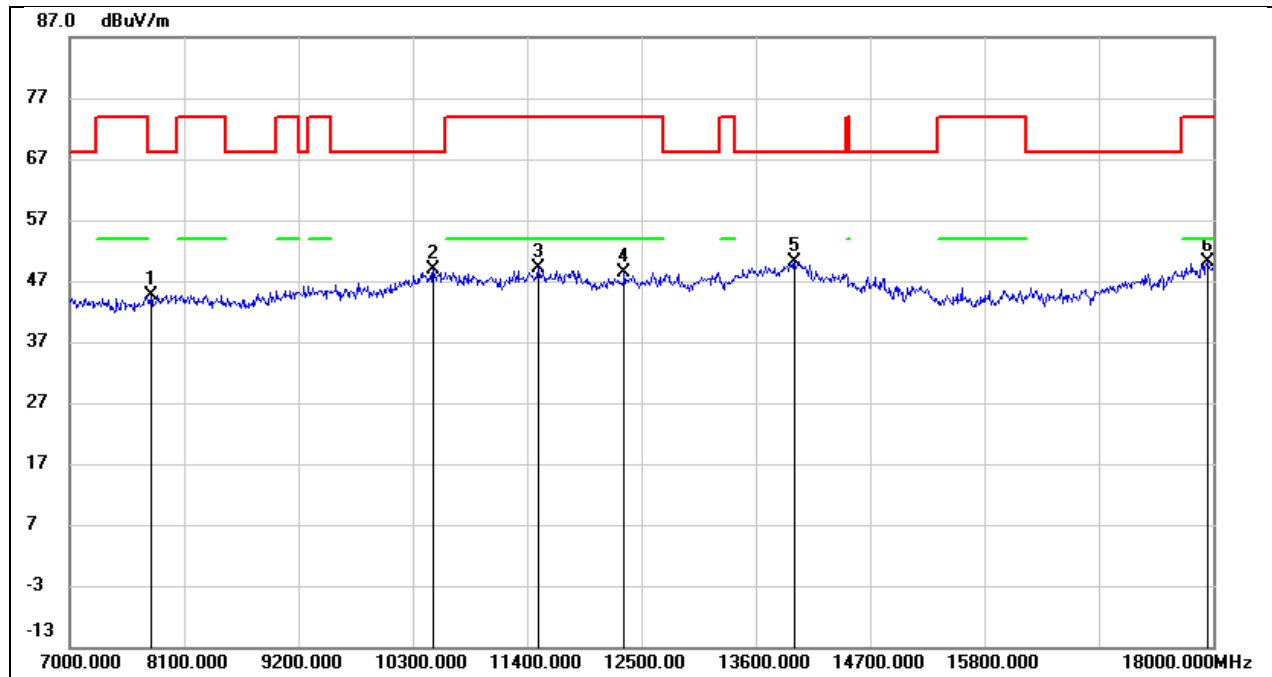
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7913.000	38.20	7.97	46.17	68.20	-22.03	peak
2	9376.000	36.27	10.66	46.93	74.00	-27.07	peak
3	10355.000	35.35	13.52	48.87	68.20	-19.33	peak
4	11708.000	32.84	17.53	50.37	74.00	-23.63	peak
5	14029.000	26.49	23.72	50.21	68.20	-17.99	peak
6	18000.000	22.31	28.37	50.68	74.00	-23.32	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	5755
Polarity:	Horizontal	Test Voltage:	DC 5V



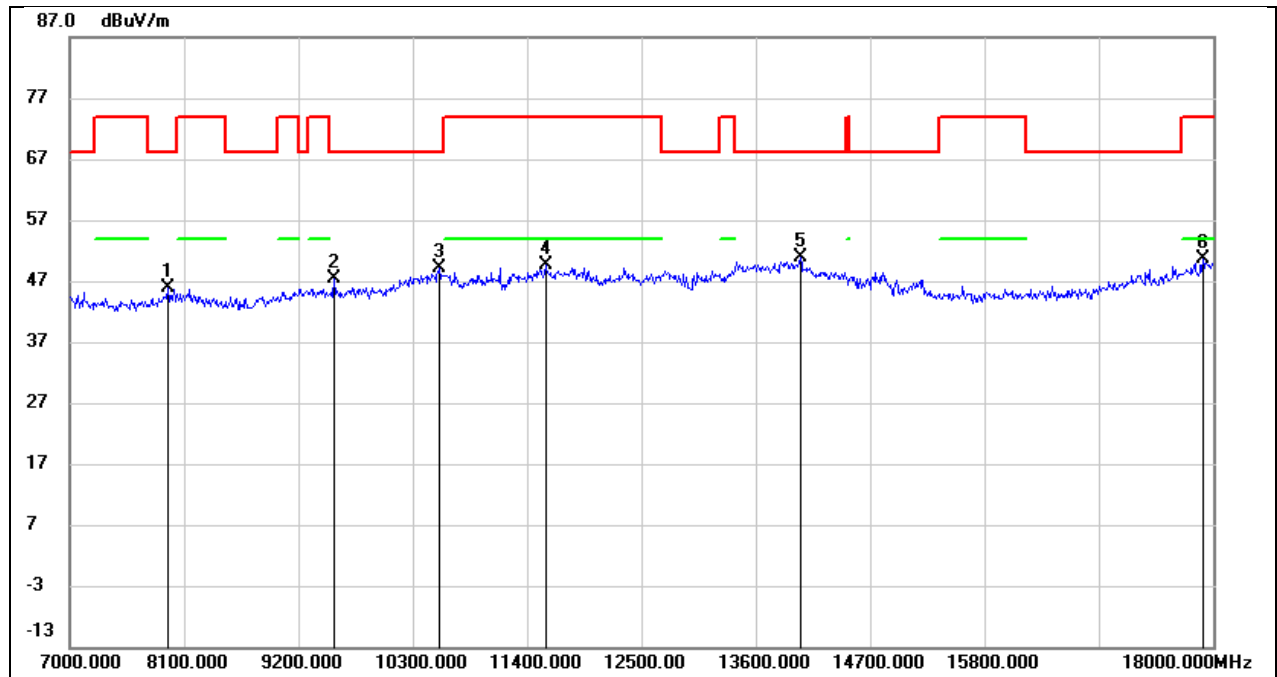
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8177.000	37.31	8.18	45.49	74.00	-28.51	peak
2	10685.000	34.36	14.39	48.75	74.00	-25.25	peak
3	11785.000	31.08	17.87	48.95	74.00	-25.05	peak
4	12401.000	29.43	19.12	48.55	74.00	-25.45	peak
5	13996.000	26.79	23.86	50.65	68.20	-17.55	peak
6	17923.000	23.13	27.69	50.82	74.00	-23.18	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	5755
Polarity:	Vertical	Test Voltage:	DC 5V



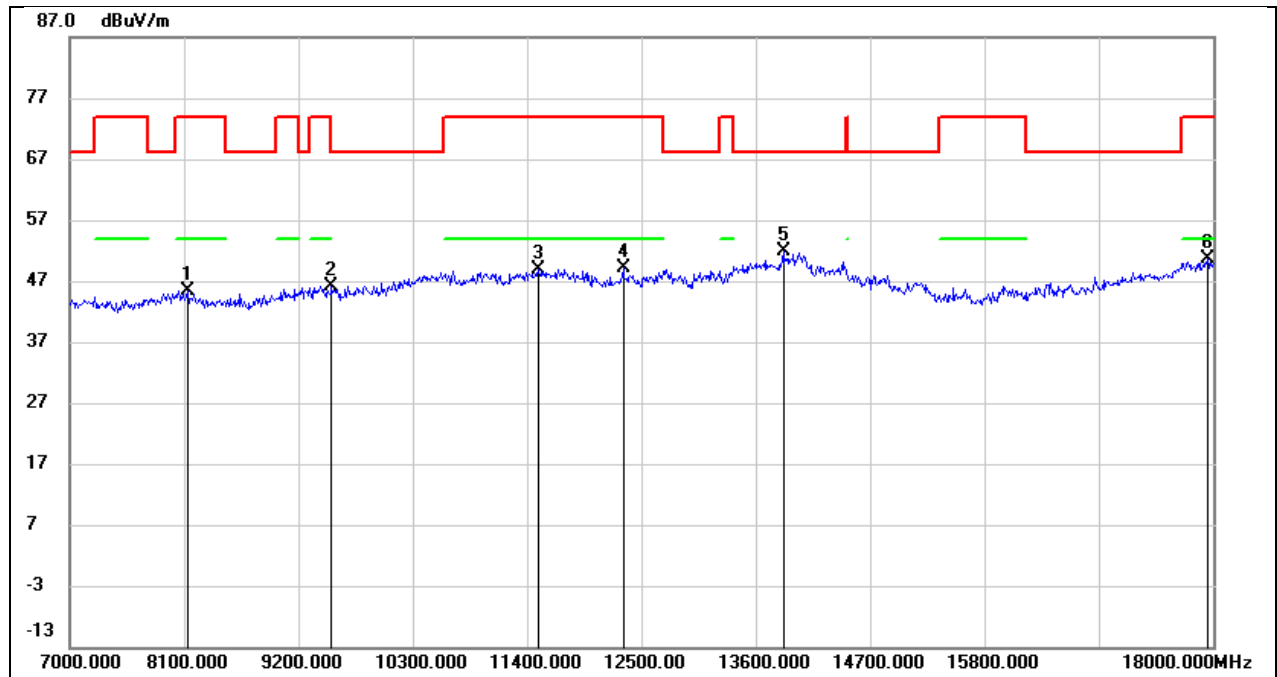
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7781.000	37.10	7.59	44.69	68.20	-23.51	peak
2	10498.000	35.08	13.90	48.98	68.20	-19.22	peak
3	11510.000	32.16	16.91	49.07	74.00	-24.93	peak
4	12335.000	29.40	19.01	48.41	74.00	-25.59	peak
5	13974.000	26.42	23.80	50.22	68.20	-17.98	peak
6	17945.000	22.14	27.89	50.03	74.00	-23.97	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	5795
Polarity:	Horizontal	Test Voltage:	DC 5V



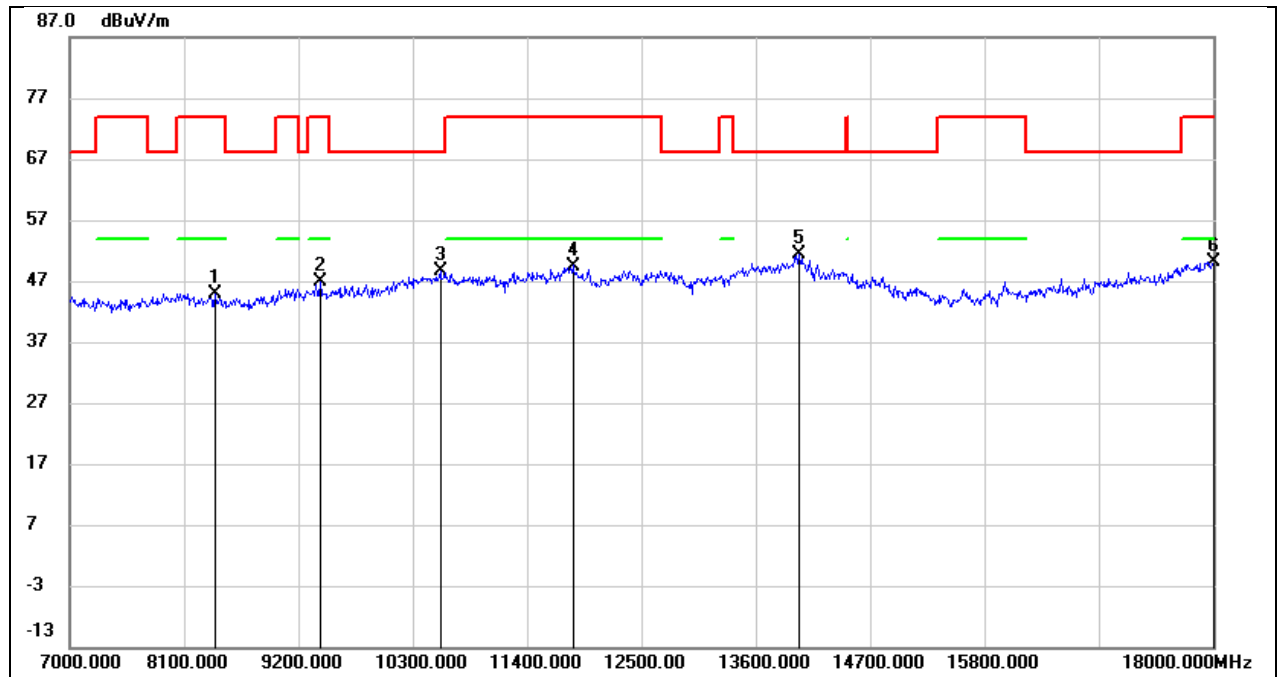
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7946.000	37.77	8.07	45.84	68.20	-22.36	peak
2	9541.000	36.32	11.17	47.49	68.20	-20.71	peak
3	10553.000	35.00	14.03	49.03	68.20	-19.17	peak
4	11576.000	32.53	17.02	49.55	74.00	-24.45	peak
5	14029.000	27.08	23.72	50.80	68.20	-17.40	peak
6	17901.000	23.20	27.51	50.71	74.00	-23.29	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	5795
Polarity:	Vertical	Test Voltage:	DC 5V



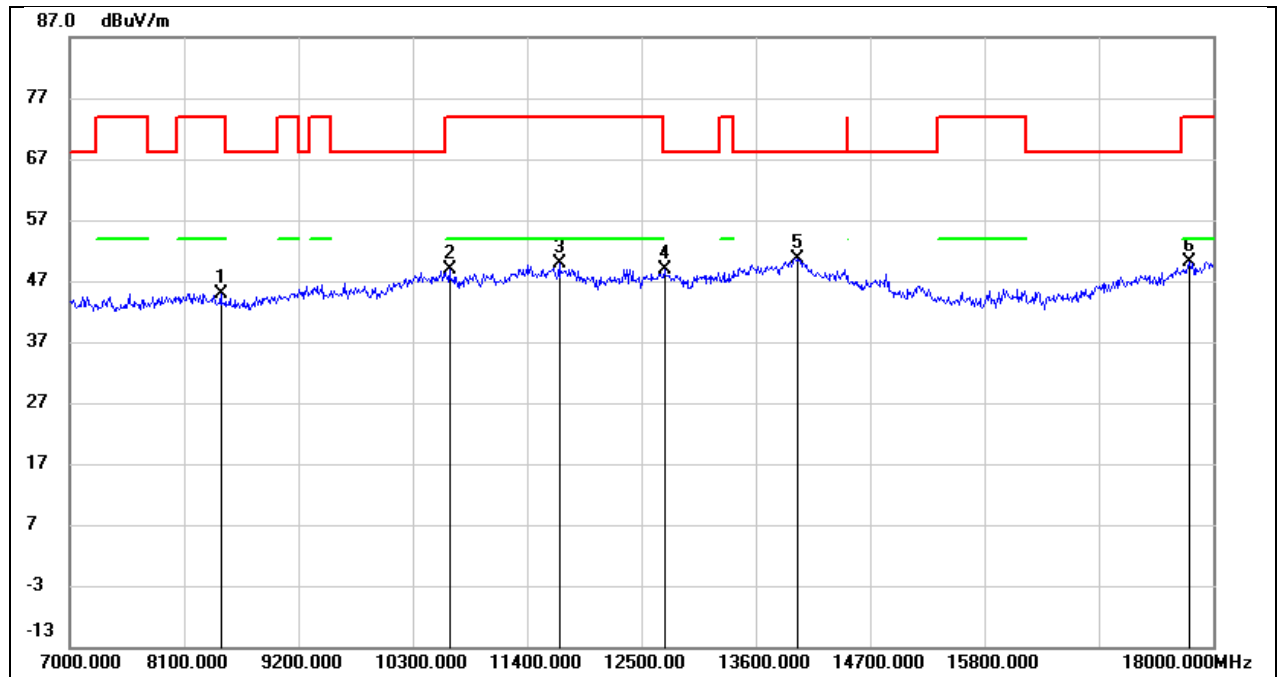
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8133.000	37.16	8.21	45.37	74.00	-28.63	peak
2	9519.000	35.00	11.10	46.10	68.20	-22.10	peak
3	11510.000	32.03	16.91	48.94	74.00	-25.06	peak
4	12324.000	30.24	19.00	49.24	74.00	-24.76	peak
5	13864.000	28.52	23.40	51.92	68.20	-16.28	peak
6	17945.000	22.71	27.89	50.60	74.00	-23.40	peak

Test Mode:	802.11ax HE80	Frequency(MHz):	5775
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8397.000	36.63	8.37	45.00	74.00	-29.00	peak
2	9409.000	36.21	10.76	46.97	74.00	-27.03	peak
3	10564.000	34.64	14.06	48.70	68.20	-19.50	peak
4	11840.000	31.49	18.01	49.50	74.00	-24.50	peak
5	14018.000	27.48	23.79	51.27	68.20	-16.93	peak
6	18000.000	21.85	28.37	50.22	74.00	-23.78	peak

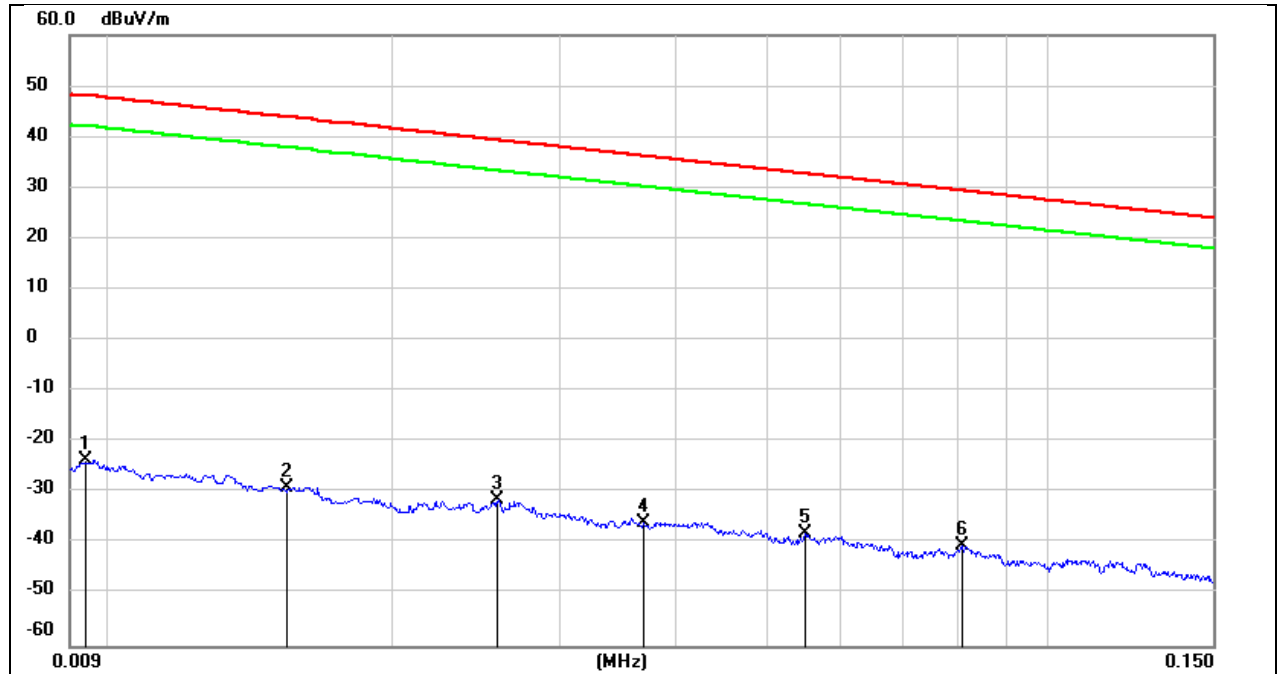
Test Mode:	802.11ax HE80	Frequency(MHz):	5775
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8452.000	36.56	8.42	44.98	74.00	-29.02	peak
2	10652.000	34.55	14.29	48.84	74.00	-25.16	peak
3	11708.000	32.30	17.53	49.83	74.00	-24.17	peak
4	12720.000	29.51	19.39	48.90	68.20	-19.30	peak
5	14007.000	26.86	23.84	50.70	68.20	-17.50	peak
6	17769.000	23.80	26.42	50.22	74.00	-23.78	peak

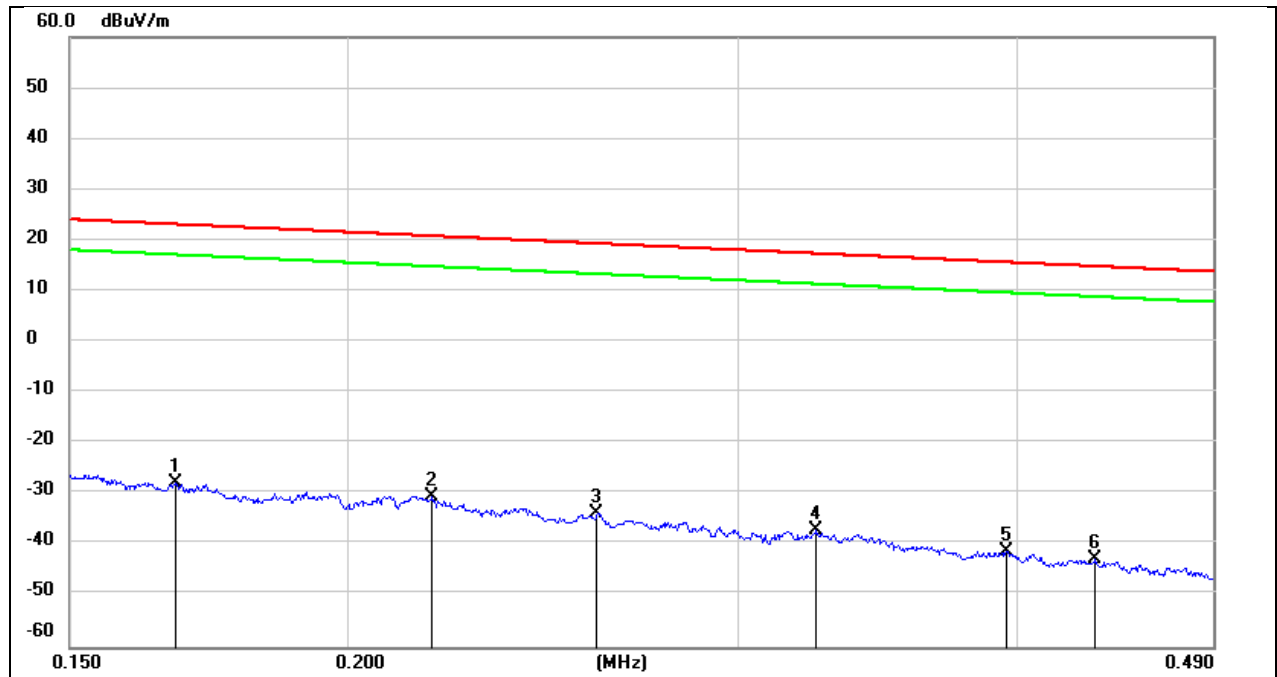
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11a20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 5V



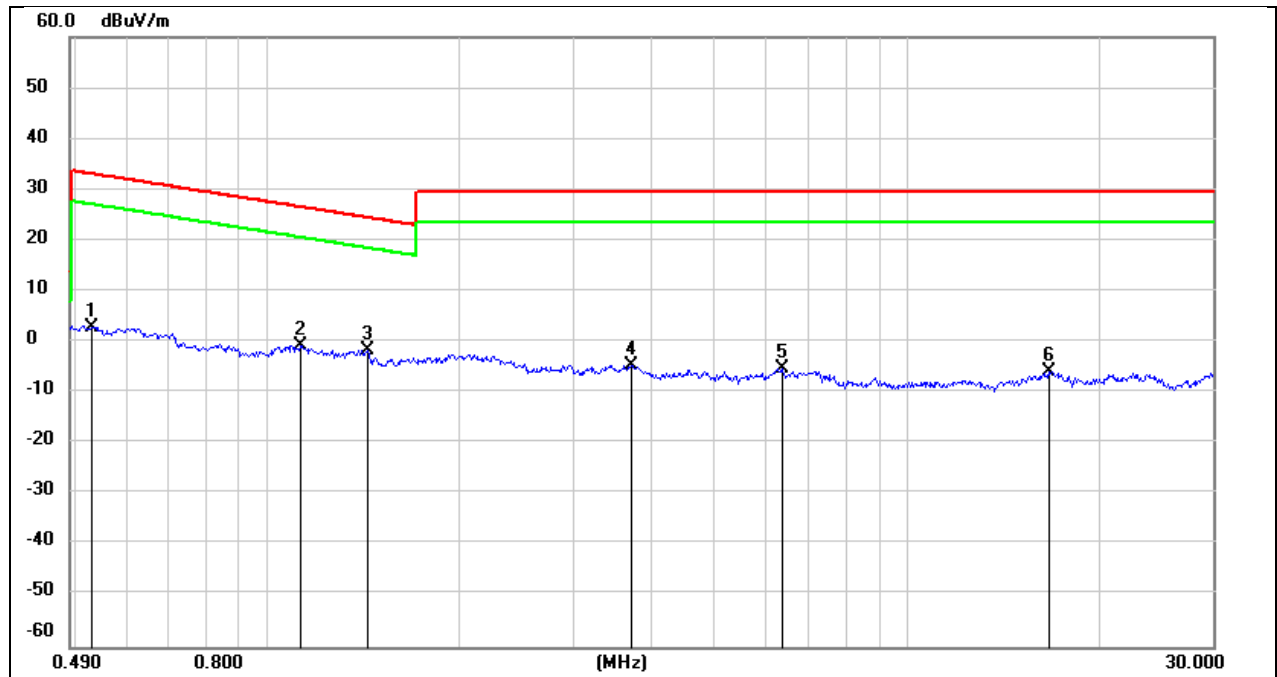
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0094	77.66	-101.35	-23.69	48.05	-71.74	peak
2	0.0154	72.49	-101.37	-28.88	43.85	-72.73	peak
3	0.0258	69.96	-101.37	-31.41	39.37	-70.78	peak
4	0.0369	65.69	-101.42	-35.73	36.26	-71.99	peak
5	0.0550	63.60	-101.50	-37.90	32.79	-70.69	peak
6	0.0806	61.18	-101.63	-40.45	29.47	-69.92	peak

Test Mode:	802.11a20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1675	73.90	-101.67	-27.77	23.13	-50.90	peak
2	0.2182	71.20	-101.75	-30.55	20.82	-51.37	peak
3	0.2590	67.95	-101.81	-33.86	19.34	-53.20	peak
4	0.3251	64.71	-101.88	-37.17	17.36	-54.53	peak
5	0.3956	60.76	-101.96	-41.20	15.66	-56.86	peak
6	0.4339	59.12	-101.99	-42.87	14.85	-57.72	peak

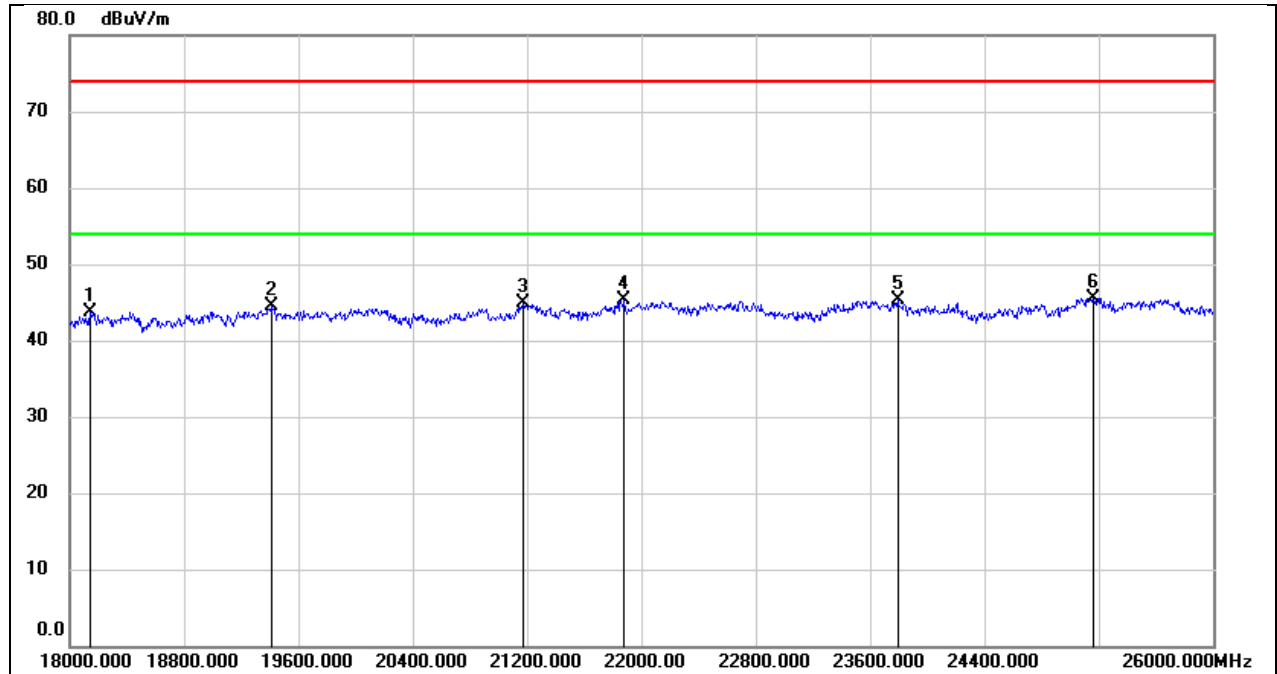
Test Mode:	802.11a20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5298	65.03	-62.08	2.95	33.12	-30.17	peak
2	1.1250	61.56	-62.21	-0.65	26.58	-27.23	peak
3	1.4274	60.38	-62.08	-1.70	24.51	-26.21	peak
4	3.7065	56.87	-61.41	-4.54	29.54	-34.08	peak
5	6.3624	56.09	-61.30	-5.21	29.54	-34.75	peak
6	16.6021	55.02	-60.96	-5.94	29.54	-35.48	peak

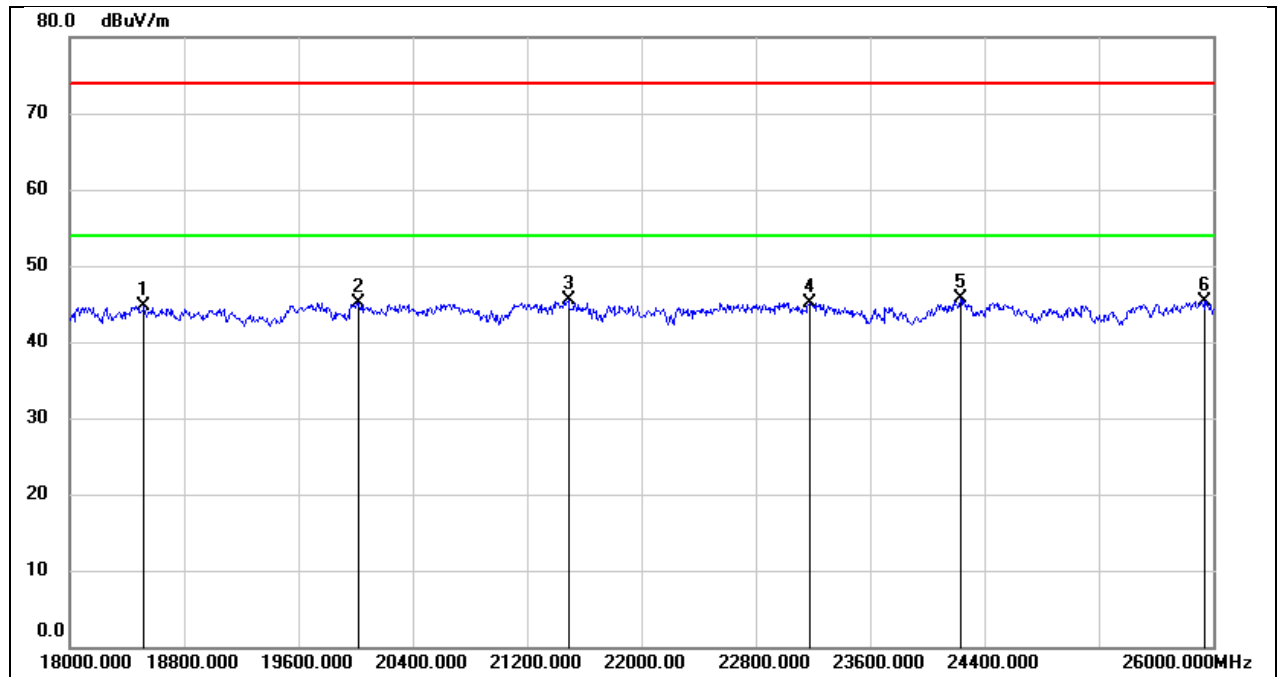
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18144.000	49.27	-5.48	43.79	74.00	-30.21	peak
2	19416.000	50.03	-5.55	44.48	74.00	-29.52	peak
3	21176.000	49.80	-4.80	45.00	74.00	-29.00	peak
4	21880.000	49.78	-4.41	45.37	74.00	-28.63	peak
5	23792.000	48.38	-3.12	45.26	74.00	-28.74	peak
6	25160.000	47.42	-1.83	45.59	74.00	-28.41	peak

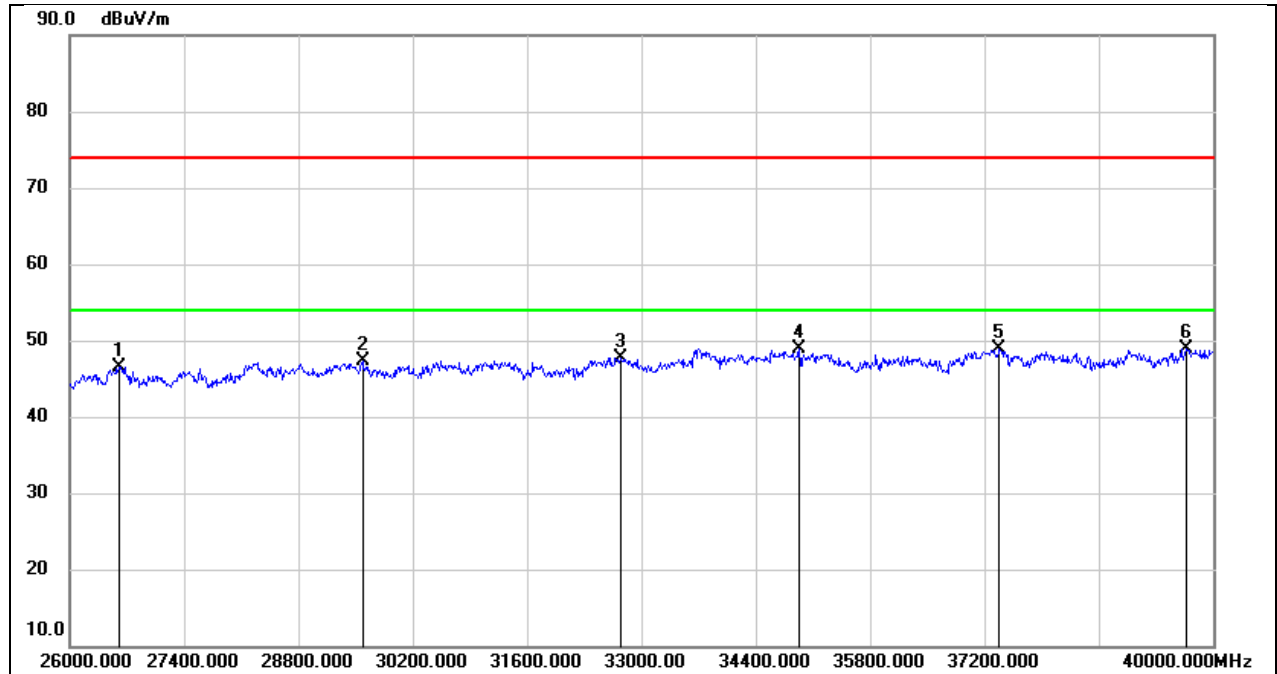
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18520.000	49.94	-5.26	44.68	74.00	-29.32	peak
2	20016.000	50.63	-5.47	45.16	74.00	-28.84	peak
3	21488.000	50.11	-4.69	45.42	74.00	-28.58	peak
4	23176.000	48.53	-3.39	45.14	74.00	-28.86	peak
5	24232.000	48.46	-2.82	45.64	74.00	-28.36	peak
6	25936.000	46.21	-0.95	45.26	74.00	-28.74	peak

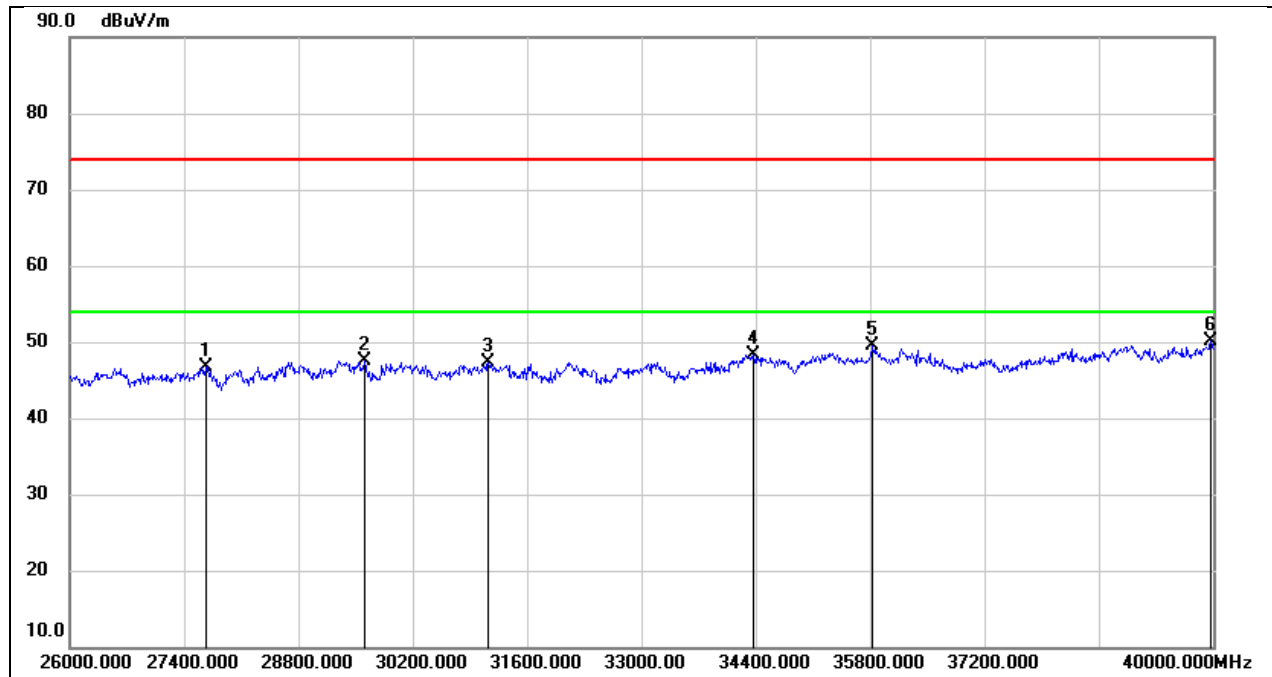
8.6. SPURIOUS EMISSIONS(26 GHZ~40 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26602.000	51.37	-4.80	46.57	74.00	-27.43	peak
2	29584.000	48.41	-1.03	47.38	74.00	-26.62	peak
3	32748.000	49.01	-1.24	47.77	74.00	-26.23	peak
4	34932.000	47.53	1.38	48.91	74.00	-25.09	peak
5	37382.000	45.69	3.16	48.85	74.00	-25.15	peak
6	39664.000	43.99	4.88	48.87	74.00	-25.13	peak

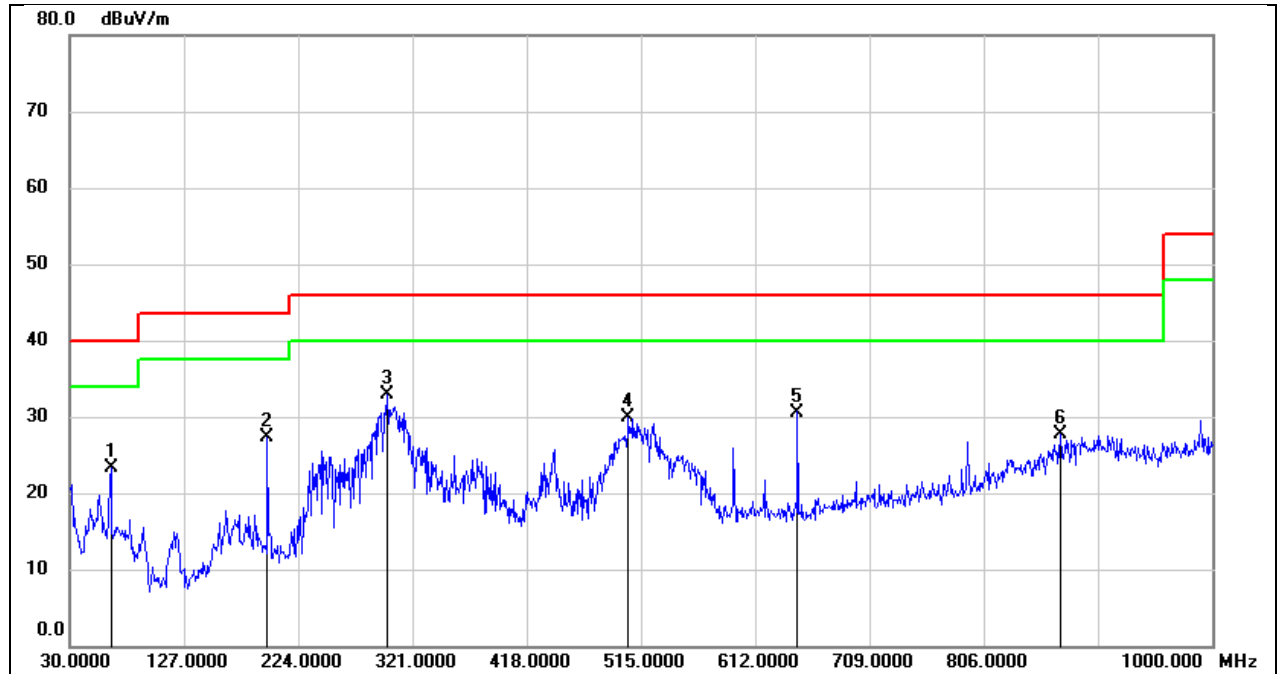
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	27666.000	50.26	-3.50	46.76	74.00	-27.24	peak
2	29612.000	48.70	-1.16	47.54	74.00	-26.46	peak
3	31124.000	48.04	-0.76	47.28	74.00	-26.72	peak
4	34372.000	47.36	1.04	48.40	74.00	-25.60	peak
5	35828.000	45.75	3.67	49.42	74.00	-24.58	peak
6	39972.000	44.95	5.13	50.08	74.00	-23.92	peak

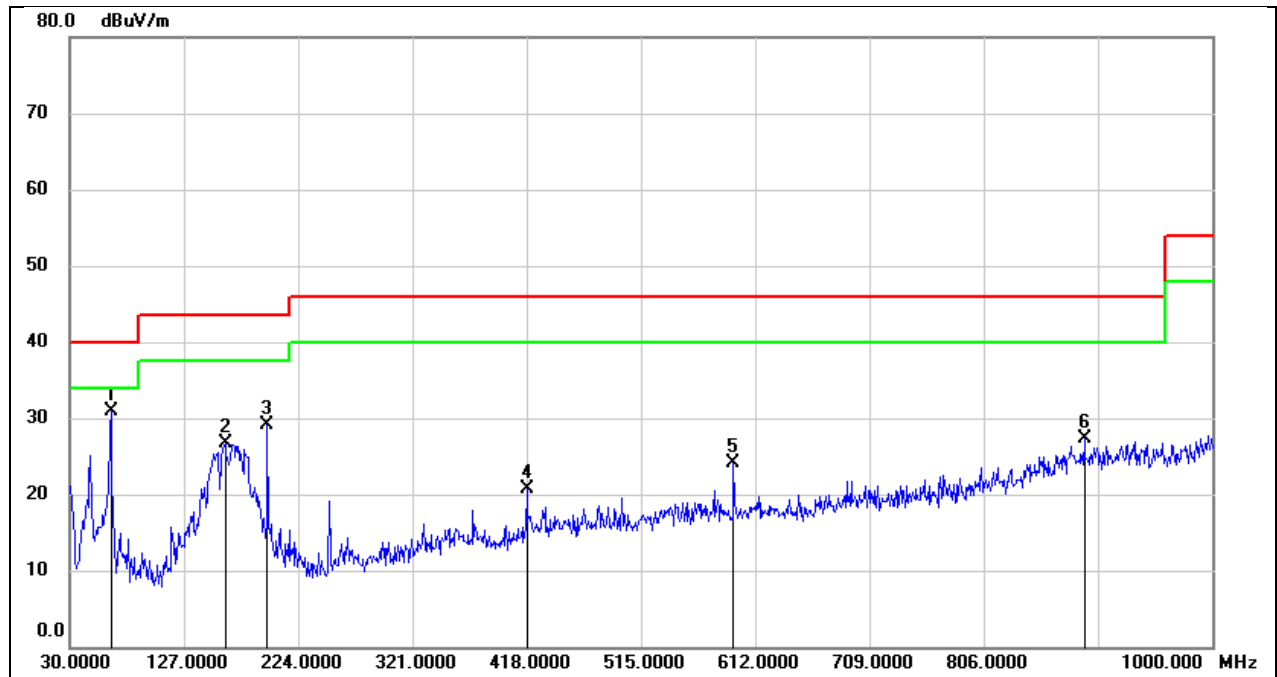
8.7. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	DC5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	64.9200	38.52	-15.22	23.30	40.00	-16.70	peak
2	197.8100	39.84	-12.46	27.38	43.50	-16.12	peak
3	299.6600	44.26	-11.27	32.99	46.00	-13.01	peak
4	504.3300	37.04	-7.21	29.83	46.00	-16.17	peak
5	647.8900	36.05	-5.45	30.60	46.00	-15.40	peak
6	870.9900	28.61	-0.97	27.64	46.00	-18.36	peak

Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	DC5V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	64.9200	46.05	-15.22	30.83	40.00	-9.17	peak
2	161.9200	39.44	-12.75	26.69	43.50	-16.81	peak
3	197.8100	41.64	-12.46	29.18	43.50	-14.32	peak
4	418.0000	29.68	-8.96	20.72	46.00	-25.28	peak
5	593.5700	29.70	-5.63	24.07	46.00	-21.93	peak
6	891.3600	27.91	-0.66	27.25	46.00	-18.75	peak

9. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to FCC 47 CFR §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

*Decreases with the logarithm of the frequency.

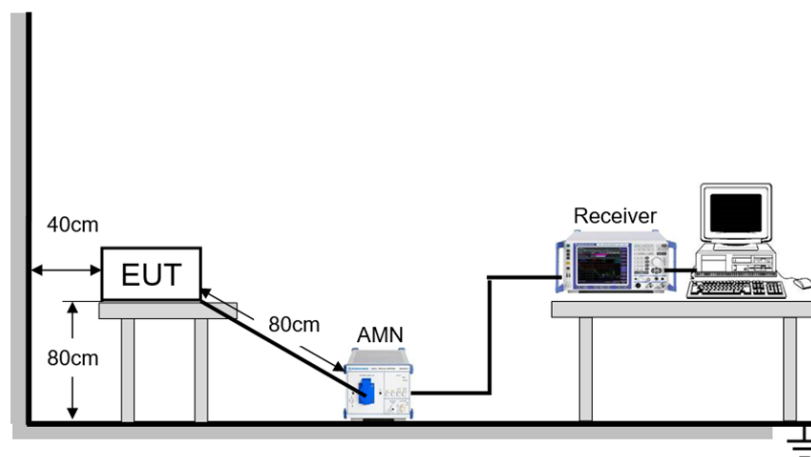
TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2020. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

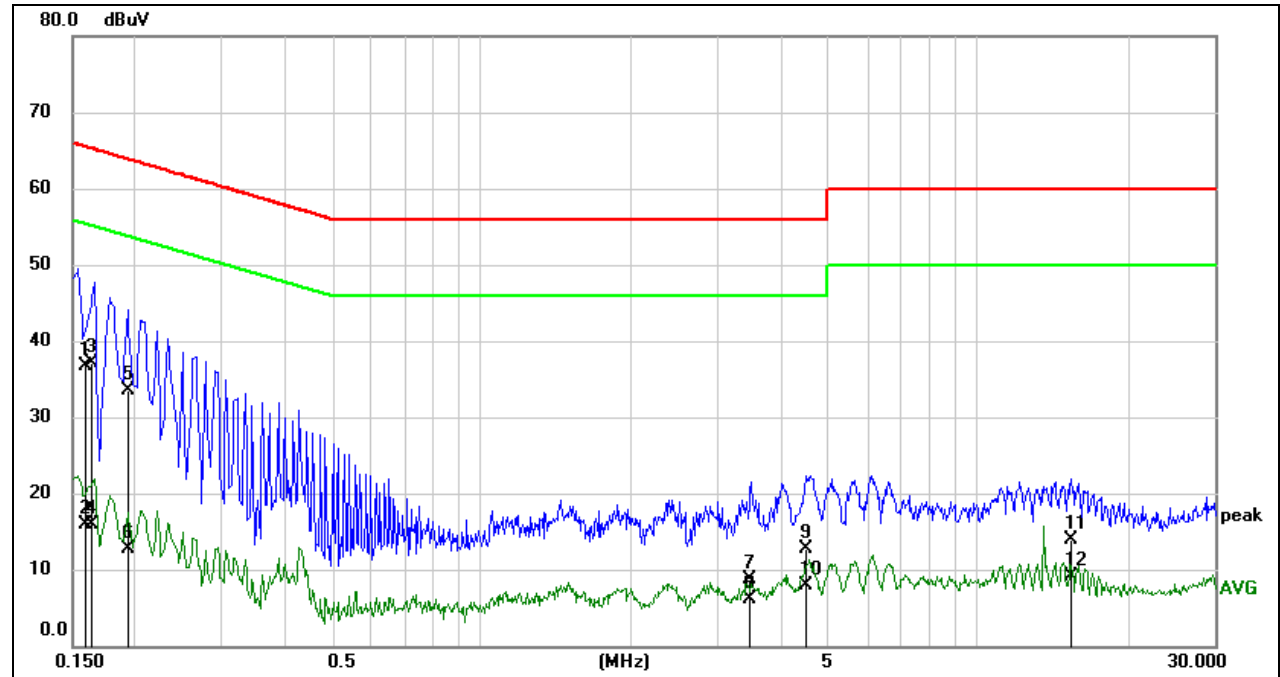
Temperature	25.6°C	Relative Humidity	55%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	June 7, 2026	Test By	Johnson Liu
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TEST RESULTS

Test Mode:	802.11a	Frequency(MHz):	5180
Line:	Line		



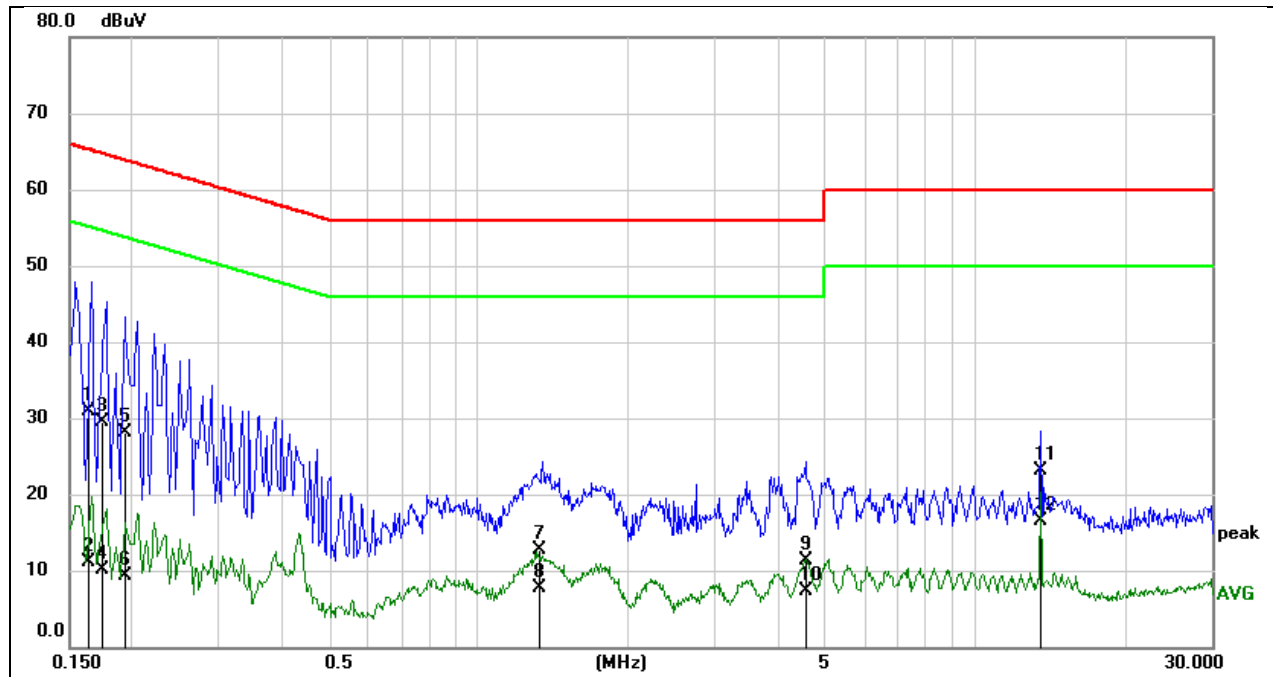
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1585	26.28	10.47	36.75	65.54	-28.79	QP
2	0.1585	5.35	10.47	15.82	55.54	-39.72	AVG
3	0.1629	26.70	10.44	37.14	65.31	-28.17	QP
4	0.1629	5.48	10.44	15.92	55.31	-39.39	AVG
5	0.1931	23.33	10.19	33.52	63.90	-30.38	QP
6	0.1931	2.47	10.19	12.66	53.90	-41.24	AVG
7	3.4768	-1.78	10.40	8.62	56.00	-47.38	QP
8	3.4768	-4.35	10.40	6.05	46.00	-39.95	AVG
9	4.5092	2.18	10.56	12.74	56.00	-43.26	QP
10	4.5092	-2.63	10.56	7.93	46.00	-38.07	AVG
11	15.3965	3.34	10.66	14.00	60.00	-46.00	QP
12	15.3965	-1.60	10.66	9.06	50.00	-40.94	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	802.11a	Frequency(MHz):	5180
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1637	20.52	10.43	30.95	65.27	-34.32	QP
2	0.1637	0.76	10.43	11.19	55.27	-44.08	AVG
3	0.1733	19.23	10.35	29.58	64.80	-35.22	QP
4	0.1733	-0.19	10.35	10.16	54.80	-44.64	AVG
5	0.1931	17.92	10.19	28.11	63.90	-35.79	QP
6	0.1931	-0.86	10.19	9.33	53.90	-44.57	AVG
7	1.3270	2.45	10.23	12.68	56.00	-43.32	QP
8	1.3270	-2.58	10.23	7.65	46.00	-38.35	AVG
9	4.5623	0.72	10.57	11.29	56.00	-44.71	QP
10	4.5623	-3.17	10.57	7.40	46.00	-38.60	AVG
11	13.5599	12.50	10.67	23.17	60.00	-36.83	QP
12	13.5599	5.74	10.67	16.41	50.00	-33.59	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.407(a)

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. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

11. TEST DATA

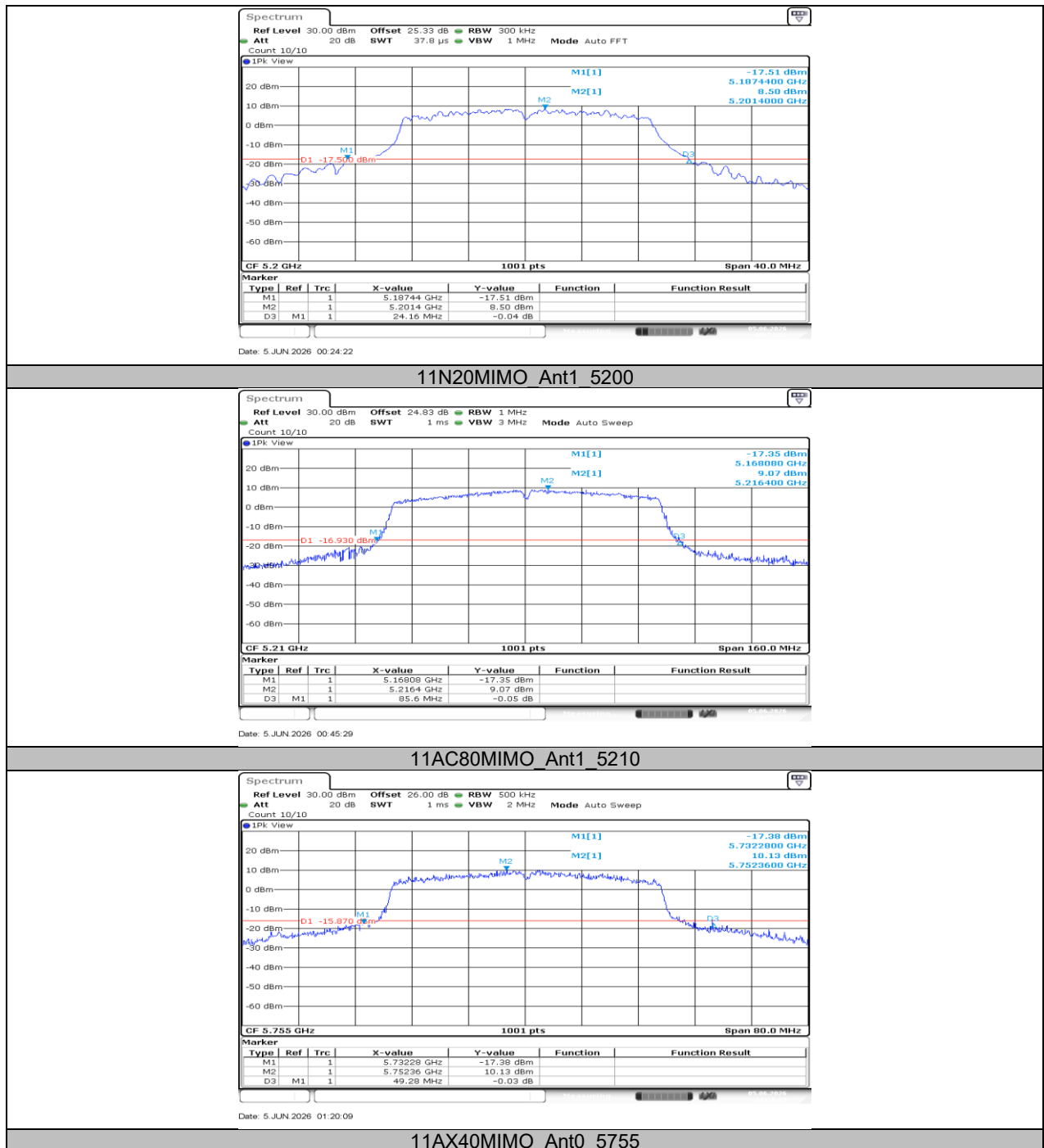
11.1. APPENDIX A: EMISSION BANDWIDTH

11.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant0	5180	20.32	5170.24	5190.56	PASS
	Ant1	5180	19.96	5170.04	5190.00	PASS
	Ant0	5200	20.64	5190.08	5210.72	PASS
	Ant1	5200	20.52	5190.32	5210.84	PASS
	Ant0	5240	20.32	5229.96	5250.28	PASS
	Ant1	5240	20.24	5230.04	5250.28	PASS
	Ant0	5745	25.96	5732.16	5758.12	PASS
	Ant1	5745	20.80	5734.80	5755.60	PASS
	Ant0	5785	26.20	5771.20	5797.40	PASS
	Ant1	5785	20.32	5774.96	5795.28	PASS
	Ant0	5825	26.00	5812.20	5838.20	PASS
	Ant1	5825	20.24	5815.08	5835.32	PASS
11N20MIMO	Ant0	5180	21.80	5169.28	5191.08	PASS
	Ant1	5180	21.64	5169.68	5191.32	PASS
	Ant0	5200	21.68	5189.36	5211.04	PASS
	Ant1	5200	24.16	5187.44	5211.60	PASS
	Ant0	5240	21.88	5229.04	5250.92	PASS
	Ant1	5240	21.60	5229.52	5251.12	PASS
	Ant0	5745	21.48	5734.52	5756.00	PASS
	Ant1	5745	21.84	5734.44	5756.28	PASS
	Ant0	5785	23.64	5774.44	5798.08	PASS
	Ant1	5785	22.28	5774.32	5796.60	PASS
	Ant0	5825	23.08	5812.72	5835.80	PASS
	Ant1	5825	21.56	5814.32	5835.88	PASS
11N40MIMO	Ant0	5190	41.92	5169.44	5211.36	PASS
	Ant1	5190	41.68	5169.52	5211.20	PASS
	Ant0	5230	42.16	5209.12	5251.28	PASS
	Ant1	5230	42.48	5209.04	5251.52	PASS
	Ant0	5755	42.72	5733.80	5776.52	PASS
	Ant1	5755	42.00	5734.36	5776.36	PASS
	Ant0	5795	42.64	5773.80	5816.44	PASS
	Ant1	5795	42.64	5774.04	5816.68	PASS
11AC80MIMO	Ant0	5210	85.44	5168.24	5253.68	PASS
	Ant1	5210	85.60	5168.08	5253.68	PASS
	Ant0	5775	85.44	5732.44	5817.88	PASS
	Ant1	5775	85.76	5732.60	5818.36	PASS
11AX20MIMO	Ant0	5180	22.20	5169.20	5191.40	PASS
	Ant1	5180	21.56	5169.40	5190.96	PASS
	Ant0	5200	21.60	5189.40	5211.00	PASS
	Ant1	5200	22.48	5189.52	5212.00	PASS
	Ant0	5240	21.48	5229.40	5250.88	PASS
	Ant1	5240	20.76	5229.80	5250.56	PASS
	Ant0	5745	22.80	5733.68	5756.48	PASS
	Ant1	5745	22.28	5733.64	5755.92	PASS
	Ant0	5785	24.08	5773.80	5797.88	PASS
	Ant1	5785	21.24	5774.40	5795.64	PASS
	Ant0	5825	21.64	5814.40	5836.04	PASS
	Ant1	5825	22.24	5814.24	5836.48	PASS
11AX40MIMO	Ant0	5190	42.80	5169.36	5212.16	PASS
	Ant1	5190	42.80	5169.28	5212.08	PASS
	Ant0	5230	41.36	5209.92	5251.28	PASS
	Ant1	5230	42.72	5209.44	5252.16	PASS

	Ant0	5755	49.28	5732.28	5781.56	PASS
	Ant1	5755	42.80	5734.12	5776.92	PASS
	Ant0	5795	44.08	5773.08	5817.16	PASS
	Ant1	5795	43.04	5774.04	5817.08	PASS
11AX80MIMO	Ant0	5210	84.48	5168.24	5252.72	PASS
	Ant1	5210	83.84	5168.88	5252.72	PASS
	Ant0	5775	85.28	5732.28	5817.56	PASS
	Ant1	5775	84.96	5733.40	5818.36	PASS

11.1.2. Test Graphs



Note: Only one worst test plot for each bandwidth is recorded in the report as a reference for test settings. For different modes, the same settings were used for testing across different modes at the same bandwidth. (20M: 802.11a/n20/ax20; 40M: 802.11n40/ax40; 80M: 802.11ac80/ax80)

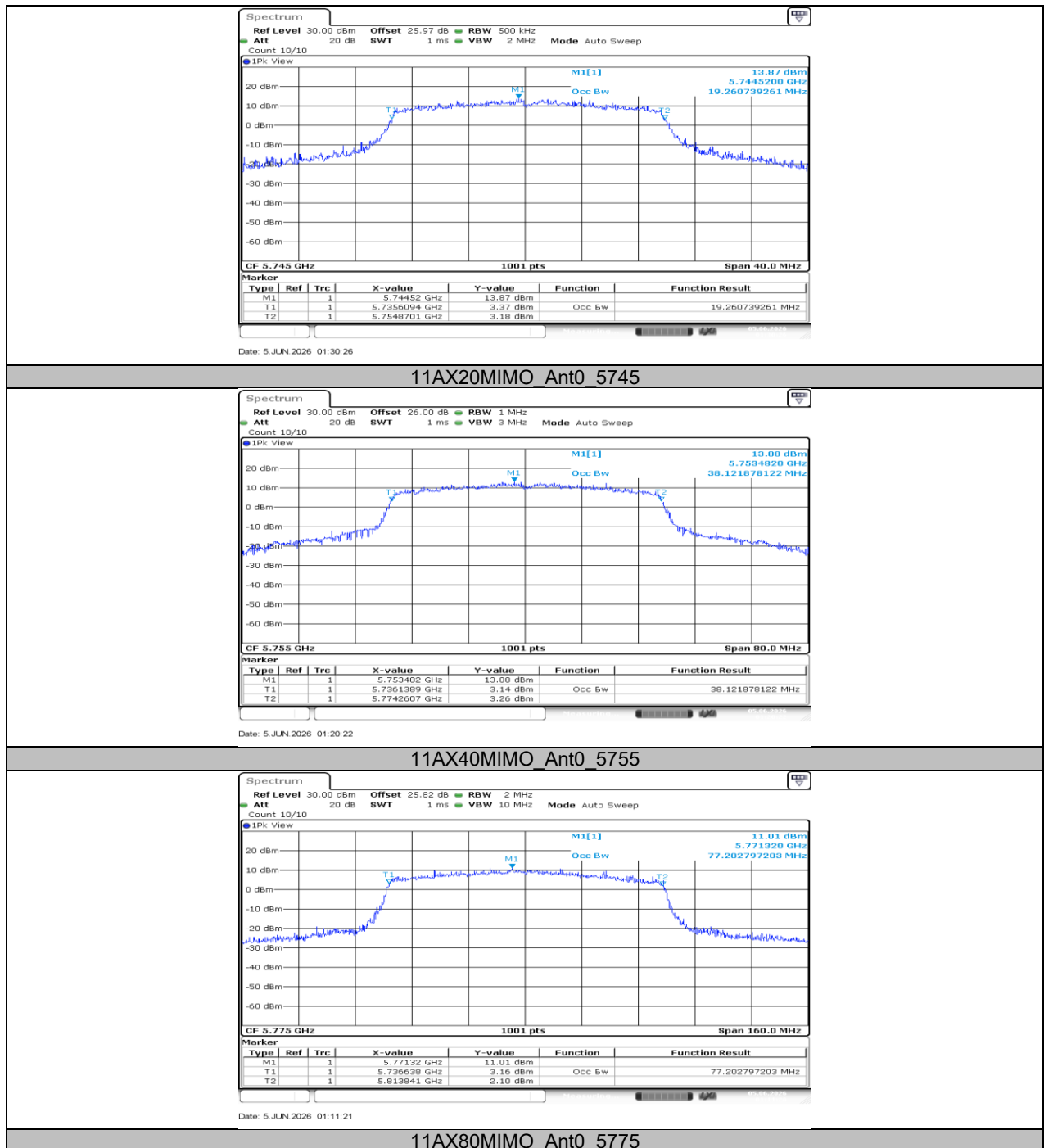
11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant0	5180	16.983	5171.6883	5188.6713	PASS
	Ant1	5180	16.783	5171.8082	5188.5914	PASS
	Ant0	5200	17.103	5191.6484	5208.7512	PASS
	Ant1	5200	16.823	5191.8082	5208.6314	PASS
	Ant0	5240	16.983	5231.6883	5248.6713	PASS
	Ant1	5240	16.823	5231.7682	5248.5914	PASS
	Ant0	5745	17.662	5736.3287	5753.9910	PASS
	Ant1	5745	16.743	5736.8082	5753.5514	PASS
	Ant0	5785	17.862	5776.0889	5793.9510	PASS
	Ant1	5785	16.783	5776.7682	5793.5514	PASS
	Ant0	5825	17.622	5816.2887	5833.9111	PASS
	Ant1	5825	16.823	5816.7283	5833.5514	PASS
11N20MIMO	Ant0	5180	18.142	5171.1289	5189.2707	PASS
	Ant1	5180	18.182	5171.0889	5189.2707	PASS
	Ant0	5200	18.182	5191.0889	5209.2707	PASS
	Ant1	5200	18.342	5191.0090	5209.3506	PASS
	Ant0	5240	18.182	5231.0889	5249.2707	PASS
	Ant1	5240	18.182	5231.0889	5249.2707	PASS
	Ant0	5745	18.262	5736.0490	5754.3107	PASS
	Ant1	5745	18.182	5736.1289	5754.3107	PASS
	Ant0	5785	18.422	5775.8891	5794.3107	PASS
	Ant1	5785	18.102	5776.1289	5794.2308	PASS
	Ant0	5825	18.382	5815.9291	5834.3107	PASS
	Ant1	5825	18.142	5816.0490	5834.1908	PASS
11N40MIMO	Ant0	5190	36.444	5172.0979	5208.5415	PASS
	Ant1	5190	36.444	5172.0979	5208.5415	PASS
	Ant0	5230	36.444	5212.0180	5248.4615	PASS
	Ant1	5230	36.603	5212.0180	5248.6214	PASS
	Ant0	5755	36.763	5736.7782	5773.5415	PASS
	Ant1	5755	36.523	5737.0180	5773.5415	PASS
	Ant0	5795	36.763	5776.6983	5813.4615	PASS
	Ant1	5795	36.683	5776.8581	5813.5415	PASS
11AC80MIMO	Ant0	5210	75.285	5172.7572	5248.0420	PASS
	Ant1	5210	75.604	5172.7572	5248.3616	PASS
	Ant0	5775	75.764	5737.1179	5812.8821	PASS
	Ant1	5775	75.604	5737.5974	5813.2018	PASS
11AX20MIMO	Ant0	5180	19.061	5170.6494	5189.7103	PASS
	Ant1	5180	19.021	5170.6893	5189.7103	PASS
	Ant0	5200	19.101	5190.6494	5209.7502	PASS
	Ant1	5200	19.101	5190.6494	5209.7502	PASS
	Ant0	5240	19.021	5230.6893	5249.7103	PASS
	Ant1	5240	19.061	5230.6494	5249.7103	PASS
	Ant0	5745	19.261	5735.6094	5754.8701	PASS
	Ant1	5745	19.061	5735.6893	5754.7502	PASS
	Ant0	5785	19.301	5775.4895	5794.7902	PASS
	Ant1	5785	19.061	5775.6494	5794.7103	PASS
	Ant0	5825	19.221	5815.5295	5834.7502	PASS
	Ant1	5825	19.061	5815.6094	5834.6703	PASS
11AX40MIMO	Ant0	5190	37.962	5171.2987	5209.2607	PASS
	Ant1	5190	38.042	5171.2188	5209.2607	PASS
	Ant0	5230	37.962	5211.2987	5249.2607	PASS
	Ant1	5230	38.042	5211.2987	5249.3407	PASS
	Ant0	5755	38.122	5736.1389	5774.2607	PASS

	Ant1	5755	38.042	5736.2188	5774.2607	PASS
	Ant0	5795	38.042	5776.1389	5814.1808	PASS
	Ant1	5795	37.962	5776.2188	5814.1808	PASS
11AX80MIMO	Ant0	5210	77.043	5171.7982	5248.8412	PASS
	Ant1	5210	76.883	5172.1179	5249.0010	PASS
	Ant0	5775	77.203	5736.6384	5813.8412	PASS
	Ant1	5775	77.043	5736.9580	5814.0010	PASS

11.2.2. Test Graphs



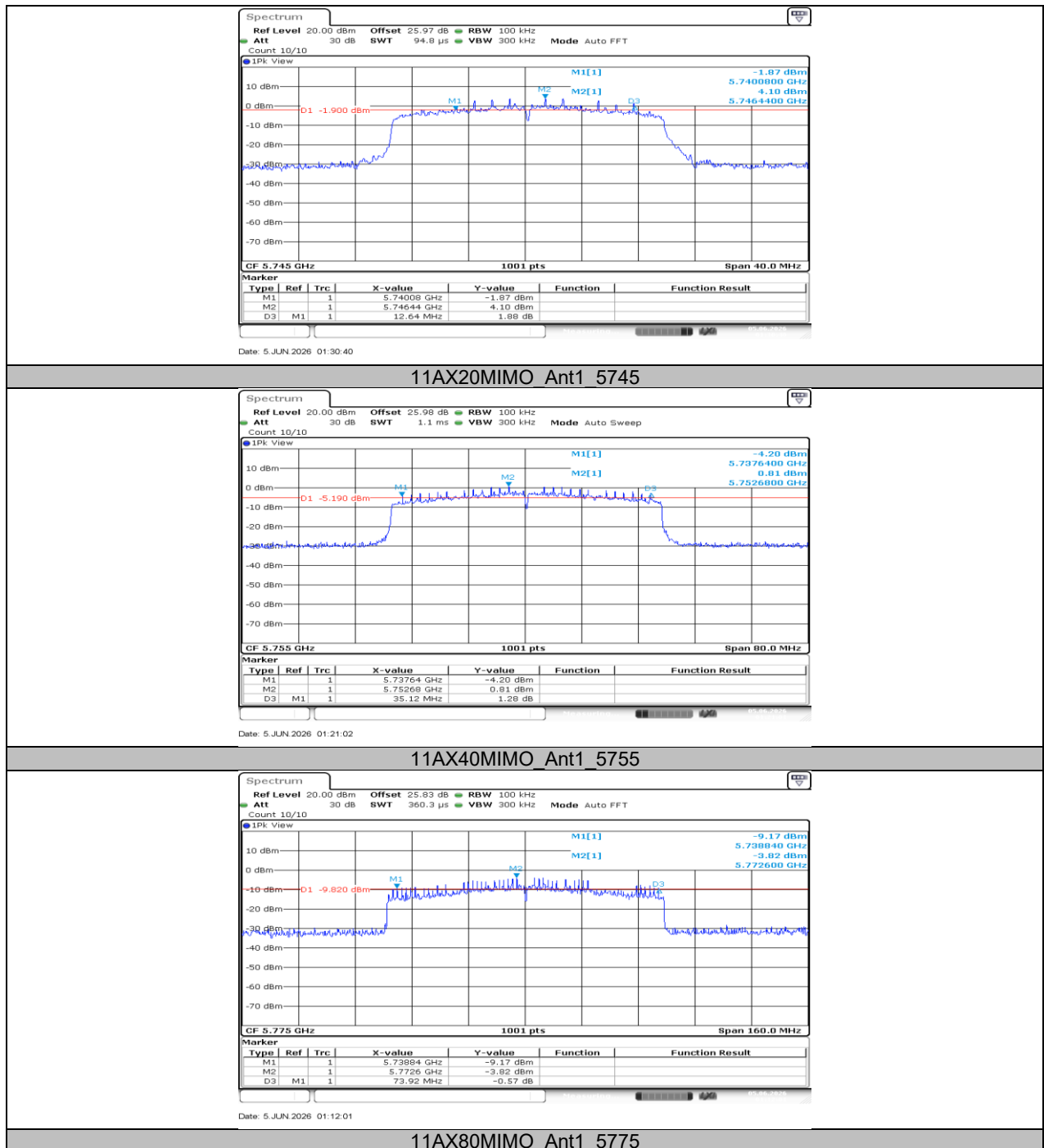
Note: Only one worst test plot for each bandwidth is recorded in the report as a reference for test settings. For different modes, the same settings were used for testing across different modes at the same bandwidth. (20M: 802.11a/n20/ax20; 40M: 802.11n40/ax40; 80M: 802.11ac80/ax80)

11.3. APPENDIX C: MIN EMISSION BANDWIDTH

11.3.1. Test Result

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5745	14.80	5737.60	5752.40	≥0.5	PASS
	Ant1	5745	16.32	5737.00	5753.32	≥0.5	PASS
	Ant0	5785	15.36	5777.36	5792.72	≥0.5	PASS
	Ant1	5785	15.08	5777.60	5792.68	≥0.5	PASS
	Ant0	5825	15.12	5817.60	5832.72	≥0.5	PASS
	Ant1	5825	15.12	5817.60	5832.72	≥0.5	PASS
11N20MIMO	Ant0	5745	15.28	5737.64	5752.92	≥0.5	PASS
	Ant1	5745	15.12	5737.60	5752.72	≥0.5	PASS
	Ant0	5785	16.28	5777.00	5793.28	≥0.5	PASS
	Ant1	5785	14.40	5778.28	5792.68	≥0.5	PASS
	Ant0	5825	16.68	5816.64	5833.32	≥0.5	PASS
	Ant1	5825	15.72	5817.00	5832.72	≥0.5	PASS
11N40MIMO	Ant0	5755	35.12	5737.64	5772.76	≥0.5	PASS
	Ant1	5755	35.12	5737.64	5772.76	≥0.5	PASS
	Ant0	5795	35.12	5777.64	5812.76	≥0.5	PASS
	Ant1	5795	35.12	5777.64	5812.76	≥0.5	PASS
11AC80MIMO	Ant0	5775	72.48	5737.72	5810.20	≥0.5	PASS
	Ant1	5775	72.48	5740.12	5812.60	≥0.5	PASS
11AX20MIMO	Ant0	5745	15.72	5737.04	5752.76	≥0.5	PASS
	Ant1	5745	12.64	5740.08	5752.72	≥0.5	PASS
	Ant0	5785	15.16	5777.56	5792.72	≥0.5	PASS
	Ant1	5785	15.72	5777.48	5793.20	≥0.5	PASS
	Ant0	5825	15.64	5817.08	5832.72	≥0.5	PASS
	Ant1	5825	12.52	5817.60	5830.12	≥0.5	PASS
11AX40MIMO	Ant0	5755	35.12	5737.64	5772.76	≥0.5	PASS
	Ant1	5755	35.12	5737.64	5772.76	≥0.5	PASS
	Ant0	5795	35.12	5777.64	5812.76	≥0.5	PASS
	Ant1	5795	35.12	5777.64	5812.76	≥0.5	PASS
11AX80MIMO	Ant0	5775	71.36	5738.84	5810.20	≥0.5	PASS
	Ant1	5775	73.92	5738.84	5812.76	≥0.5	PASS

11.3.2. Test Graphs



Note: Only one worst test plot for each bandwidth is recorded in the report as a reference for test settings. For different modes, the same settings were used for testing across different modes at the same bandwidth. (20M: 802.11a/n20/ax20; 40M: 802.11n40/ax40; 80M: 802.11ac80/ax80)

11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant0	5180	16.05	≤23.98	PASS
	Ant1	5180	17.49	≤23.98	PASS
	Ant0	5200	15.84	≤23.98	PASS
	Ant1	5200	17.50	≤23.98	PASS
	Ant0	5240	16.42	≤23.98	PASS
	Ant1	5240	17.58	≤23.98	PASS
	Ant0	5745	18.37	≤30.00	PASS
	Ant1	5745	17.61	≤30.00	PASS
	Ant0	5785	17.91	≤30.00	PASS
	Ant1	5785	17.78	≤30.00	PASS
	Ant0	5825	17.97	≤30.00	PASS
11N20MIMO	Ant1	5825	17.88	≤30.00	PASS
	Ant0	5180	15.65	≤23.98	PASS
	Ant1	5180	16.93	≤23.98	PASS
	total	5180	19.35	≤23.98	PASS
	Ant0	5200	16.52	≤23.98	PASS
	Ant1	5200	17.62	≤23.98	PASS
	total	5200	20.12	≤23.98	PASS
	Ant0	5240	15.78	≤23.98	PASS
	Ant1	5240	17.51	≤23.98	PASS
	total	5240	19.74	≤23.98	PASS
	Ant0	5745	18.18	≤30.00	PASS
	Ant1	5745	17.18	≤30.00	PASS
	total	5745	20.72	≤30.00	PASS
	Ant0	5785	18.71	≤30.00	PASS
	Ant1	5785	17.73	≤30.00	PASS
	total	5785	21.26	≤30.00	PASS
	Ant0	5825	18.19	≤30.00	PASS
	Ant1	5825	17.72	≤30.00	PASS
	total	5825	20.97	≤30.00	PASS
11N40MIMO	Ant0	5190	15.45	≤23.98	PASS
	Ant1	5190	16.98	≤23.98	PASS
	total	5190	19.29	≤23.98	PASS
	Ant0	5230	16.34	≤23.98	PASS
	Ant1	5230	17.04	≤23.98	PASS
	total	5230	19.71	≤23.98	PASS
	Ant0	5755	16.32	≤30.00	PASS
	Ant1	5755	15.97	≤30.00	PASS
	total	5755	19.16	≤30.00	PASS
	Ant0	5795	17.52	≤30.00	PASS
	Ant1	5795	16.72	≤30.00	PASS
	total	5795	20.15	≤30.00	PASS
11AC80MIMO	Ant0	5210	16.02	≤23.98	PASS
	Ant1	5210	17.77	≤23.98	PASS
	total	5210	19.99	≤23.98	PASS
	Ant0	5775	14.18	≤30.00	PASS
	Ant1	5775	14.16	≤30.00	PASS
	total	5775	17.18	≤30.00	PASS
11AX20MIMO	Ant0	5180	15.26	≤23.98	PASS
	Ant1	5180	16.56	≤23.98	PASS
	total	5180	18.97	≤23.98	PASS
	Ant0	5200	15.93	≤23.98	PASS
	Ant1	5200	17.19	≤23.98	PASS
	total	5200	19.62	≤23.98	PASS
	Ant0	5240	15.35	≤23.98	PASS

	Ant1	5240	16.95	≤23.98	PASS
	total	5240	19.23	≤23.98	PASS
	Ant0	5745	18.13	≤30.00	PASS
	Ant1	5745	17.05	≤30.00	PASS
	total	5745	20.63	≤30.00	PASS
	Ant0	5785	18.25	≤30.00	PASS
	Ant1	5785	17.69	≤30.00	PASS
	total	5785	20.99	≤30.00	PASS
	Ant0	5825	18.31	≤30.00	PASS
	Ant1	5825	17.61	≤30.00	PASS
11AX40MIMO	total	5825	20.98	≤30.00	PASS
	Ant0	5190	13.44	≤23.98	PASS
	Ant1	5190	13.52	≤23.98	PASS
	total	5190	16.49	≤23.98	PASS
	Ant0	5230	14.00	≤23.98	PASS
	Ant1	5230	14.82	≤23.98	PASS
	total	5230	17.44	≤23.98	PASS
	Ant0	5755	16.58	≤30.00	PASS
	Ant1	5755	15.88	≤30.00	PASS
	total	5755	19.25	≤30.00	PASS
11AX80MIMO	Ant0	5795	17.68	≤30.00	PASS
	Ant1	5795	16.58	≤30.00	PASS
	total	5795	20.18	≤30.00	PASS
	Ant0	5210	12.33	≤23.98	PASS
	Ant1	5210	12.56	≤23.98	PASS
	total	5210	15.46	≤23.98	PASS
	Ant0	5775	14.69	≤30.00	PASS
	Ant1	5775	14.16	≤30.00	PASS
	total	5775	17.44	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

11.5.1. Test Result

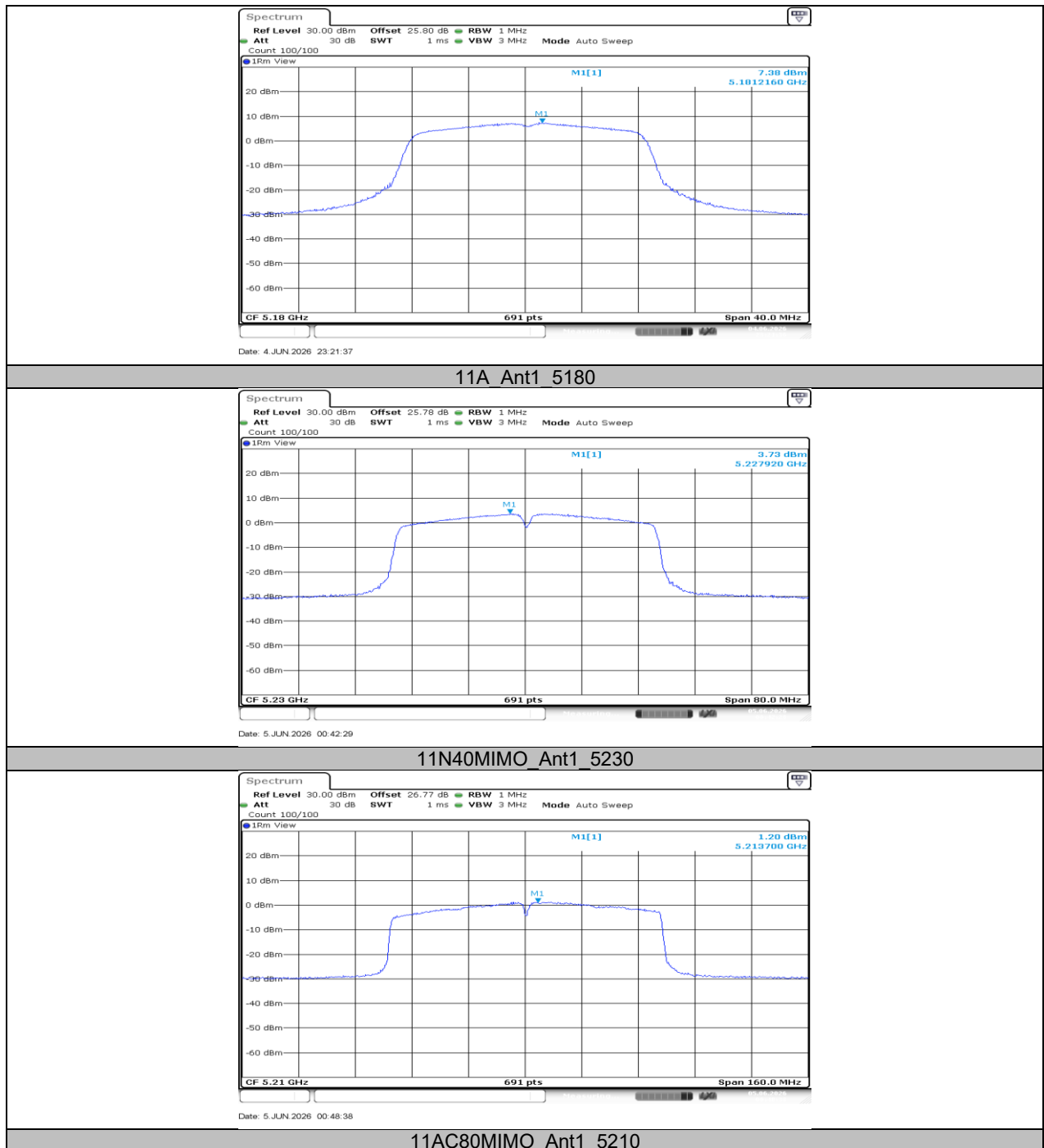
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant0	5180	5.78	≤11.00	PASS
	Ant1	5180	7.38	≤11.00	PASS
	Ant0	5200	5.65	≤11.00	PASS
	Ant1	5200	7.43	≤11.00	PASS
	Ant0	5240	6.18	≤11.00	PASS
	Ant1	5240	7.35	≤11.00	PASS
	Ant0	5745	5.32	≤30.00	PASS
	Ant1	5745	4.70	≤30.00	PASS
	Ant0	5785	5.02	≤30.00	PASS
	Ant1	5785	4.59	≤30.00	PASS
	Ant0	5825	5.15	≤30.00	PASS
	Ant1	5825	4.82	≤30.00	PASS
11N20MIMO	Ant0	5180	5.16	≤11.00	PASS
	Ant1	5180	6.40	≤11.00	PASS
	total	5180	8.83	≤11.00	PASS
	Ant0	5200	6.01	≤11.00	PASS
	Ant1	5200	7.20	≤11.00	PASS
	total	5200	9.66	≤11.00	PASS
	Ant0	5240	5.35	≤11.00	PASS
	Ant1	5240	7.01	≤11.00	PASS
	total	5240	9.27	≤11.00	PASS
	Ant0	5745	4.99	≤30.00	PASS
	Ant1	5745	3.74	≤30.00	PASS
	total	5745	7.42	≤30.00	PASS
	Ant0	5785	5.31	≤30.00	PASS
	Ant1	5785	4.38	≤30.00	PASS
	total	5785	7.88	≤30.00	PASS
	Ant0	5825	4.86	≤30.00	PASS
	Ant1	5825	4.42	≤30.00	PASS
	total	5825	7.66	≤30.00	PASS
11N40MIMO	Ant0	5190	2.05	≤11.00	PASS
	Ant1	5190	3.72	≤11.00	PASS
	total	5190	5.98	≤11.00	PASS
	Ant0	5230	2.92	≤11.00	PASS
	Ant1	5230	3.73	≤11.00	PASS
	total	5230	6.35	≤11.00	PASS
	Ant0	5755	-0.10	≤30.00	PASS
	Ant1	5755	-0.14	≤30.00	PASS
	total	5755	2.89	≤30.00	PASS
	Ant0	5795	1.29	≤30.00	PASS
	Ant1	5795	0.44	≤30.00	PASS
	total	5795	3.90	≤30.00	PASS
11AC80MIMO	Ant0	5210	-0.06	≤11.00	PASS
	Ant1	5210	1.20	≤11.00	PASS
	total	5210	3.63	≤11.00	PASS
	Ant0	5775	-4.98	≤30.00	PASS
	Ant1	5775	-4.95	≤30.00	PASS
	total	5775	-1.95	≤30.00	PASS
11AX20MIMO	Ant0	5180	4.66	≤11.00	PASS
	Ant1	5180	6.03	≤11.00	PASS
	total	5180	8.41	≤11.00	PASS
	Ant0	5200	5.52	≤11.00	PASS
	Ant1	5200	6.70	≤11.00	PASS
	total	5200	9.16	≤11.00	PASS
	Ant0	5240	4.98	≤11.00	PASS

	Ant1	5240	6.44	≤ 11.00	PASS
	total	5240	8.78	≤ 11.00	PASS
	Ant0	5745	4.87	≤ 30.00	PASS
	Ant1	5745	3.84	≤ 30.00	PASS
	total	5745	7.40	≤ 30.00	PASS
	Ant0	5785	4.94	≤ 30.00	PASS
	Ant1	5785	4.36	≤ 30.00	PASS
	total	5785	7.67	≤ 30.00	PASS
	Ant0	5825	5.12	≤ 30.00	PASS
	Ant1	5825	4.27	≤ 30.00	PASS
11AX40MIMO	total	5825	7.73	≤ 30.00	PASS
	Ant0	5190	-0.12	≤ 11.00	PASS
	Ant1	5190	0.16	≤ 11.00	PASS
	total	5190	3.03	≤ 11.00	PASS
	Ant0	5230	0.71	≤ 11.00	PASS
	Ant1	5230	1.44	≤ 11.00	PASS
	total	5230	4.10	≤ 11.00	PASS
	Ant0	5755	-0.06	≤ 30.00	PASS
	Ant1	5755	-0.71	≤ 30.00	PASS
	total	5755	2.64	≤ 30.00	PASS
11AX80MIMO	Ant0	5795	1.32	≤ 30.00	PASS
	Ant1	5795	0.35	≤ 30.00	PASS
	total	5795	3.87	≤ 30.00	PASS
	Ant0	5210	-3.49	≤ 11.00	PASS
	Ant1	5210	-3.73	≤ 11.00	PASS
	total	5210	-0.60	≤ 11.00	PASS
	Ant0	5775	-4.28	≤ 30.00	PASS
	Ant1	5775	-4.96	≤ 30.00	PASS
	total	5775	-1.60	≤ 30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.2. Test Graphs



Note: Only one worst test plot for each bandwidth is recorded in the report as a reference for test settings. For different modes, the same settings were used for testing across different modes at the same bandwidth. (20M: 802.11a/n20/ax20; 40M: 802.11n40/ax40; 80M: 802.11ac80/ax80)

11.6. APPENDIX F: FREQUENCY STABILITY

11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5199.9832	-3.24	5200.0016	0.32	5200.0028	0.53	5200.0070	1.35
TN	VN	5200.0010	0.19	5200.0133	2.56	5199.9772	-4.38	5199.9989	-0.22
TN	VH	5200.0226	4.35	5200.0199	3.82	5200.0181	3.49	5199.9892	-2.07
Frequency Error vs. Temperature									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5200.0010	0.19	5199.9805	-3.74	5199.9850	-2.88	5199.9772	-4.38
30	VN	5199.9935	-1.25	5200.0109	2.10	5199.9908	-1.77	5199.9827	-3.33
20	VN	5199.9880	-2.30	5199.9907	-1.78	5200.0148	2.85	5199.9844	-3.00
10	VN	5200.0197	3.78	5200.0073	1.41	5199.9863	-2.63	5199.9986	-0.28
0	VN	5199.9906	-1.80	5200.0032	0.61	5199.9994	-0.11	5200.0116	2.23

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

11.7. APPENDIX H: DUTY CYCLE

11.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.38	1.56	0.8846	88.46	0.53	0.72	1
11N20MIMO	1.29	1.44	0.8958	89.58	0.48	0.78	1
11N40MIMO	0.64	0.81	0.7901	79.01	1.02	1.56	2
11AC80MIMO	0.32	0.5	0.6400	64.00	1.94	3.13	4
11AX20MIMO	1.01	1.16	0.8707	87.07	0.60	0.99	1
11AX40MIMO	0.53	0.7	0.7571	75.71	1.21	1.89	2
11AX80MIMO	0.29	0.46	0.6304	63.04	2.00	3.45	4

Note:

Duty Cycle Correction Factor= $10\log(1/x)$.

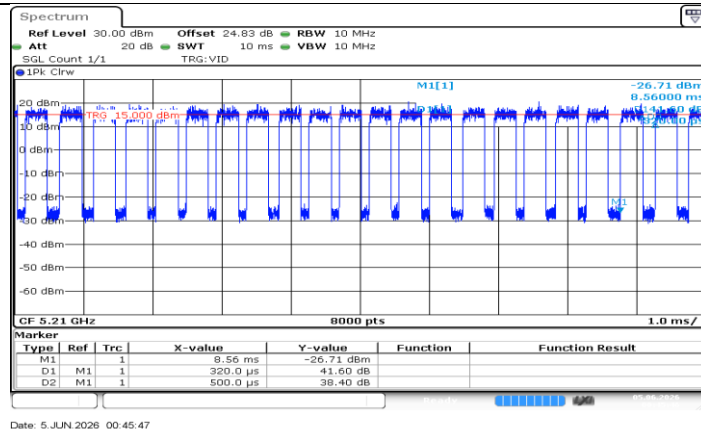
Where: x is Duty Cycle (Linear)

Where: T is On Time

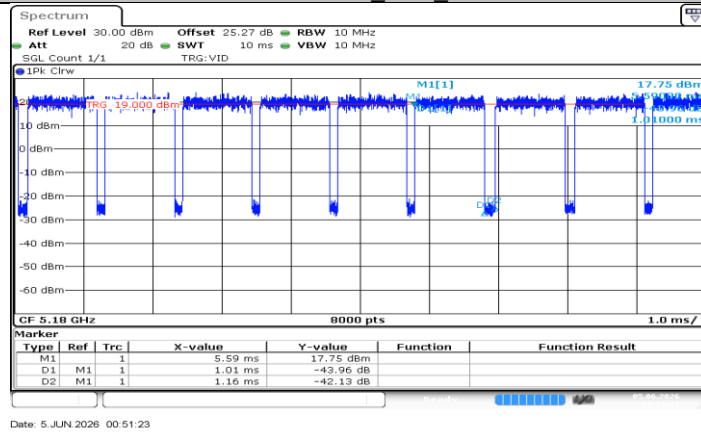
If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2. Test Graphs

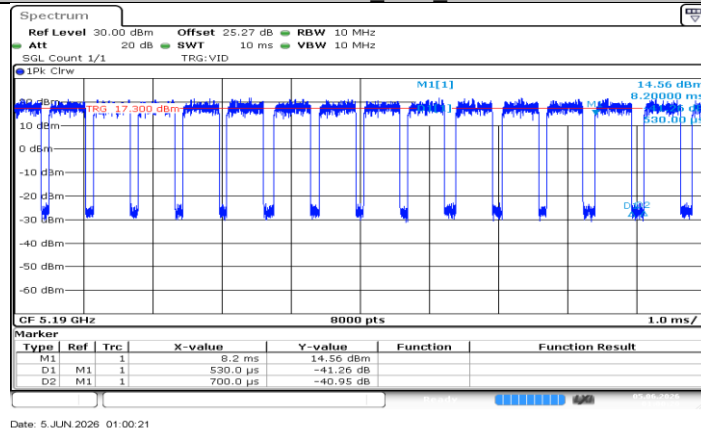




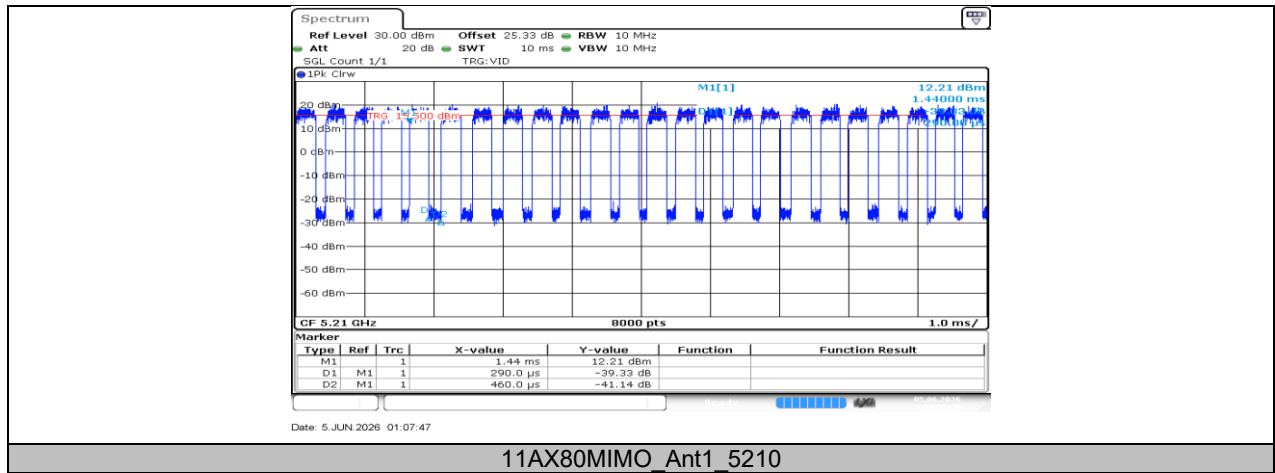
11AC80MIMO_Ant1_5210



11AX20MIMO_Ant1_5180



11AX40MIMO_Ant1_5190



END OF REPORT