

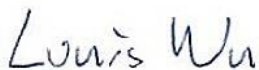


FCC RADIO TEST REPORT

FCC ID : 2AMK2- RM02AA
Equipment : reMarkable Paper Pro
Brand Name : reMarkable
Model Name : RM02A
Applicant : reMarkable AS
Fridtjof Nansens vei 12, 0369 Oslo, Norway
Manufacturer : reMarkable AS
Fridtjof Nansens vei 12, 0369 Oslo, Norway
Standard : FCC Part 15 Subpart E §15.407

The product was received on Mar. 29, 2024 and testing was performed from Apr. 22, 2024 to May 12, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR432902H	01	Initial issue of report	Jun. 18, 2024
FR432902H	02	Revise applicant information This report is an updated version, replacing the report issued on Jun. 18, 2024.	Jun. 27, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(e)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum E.I.R.P Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	6.61 dB under the limit at 5895.00 MHz
3.5	15.207	AC Conducted Emission	Pass	13.83 dB under the limit at 13.56 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and NFC.		
Antenna Type WLAN: Monopole Antenna Bluetooth: Monopole Antenna NFC: Coil Inductor Antenna		
Antenna information		
5850 MHz ~ 5895 MHz	Peak Gain (dBi)	0.4

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	CO05-HY, 03CH07-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	TH05-HY (TAF Code: 3786)
Remark	The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory.

FCC designation No.: TW1190 and TW3786



1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 291074 D02 EMC Measurement v01
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Bandwidth	Channel	Frequency (MHz)	Note
5850-5895 MHz (U-NII-4)	20 MHz	169	5845	Straddle
		173	5865	
		177	5885	
	40 MHz	167	5835	Straddle
		175	5875	
	80 MHz	171	5855	Straddle
	160 MHz	163	5815	Straddle

Note: The channel noted with “straddle” spans 5.725-5.850 GHz and 5.850-5.895 GHz.

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The power for 802.11n HT20/ HT40 mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

The final test modes include the worst data rates for each modulation shown in the table below.

Specification	MCS index /Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + NFC Charging to pen 1 + USB Cable (Charging from Adapter) + Battery

Ch. #		RF test channel of UNII-4 and UNII-3 &-4 span channels				
		802.11a	802.11ac VHT20	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	169	-	169	167	-
M	Middle	173	-	173	-	171
H	High	177	177	177	175	-

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Phone	Apple	A1586	N/A	N/A	N/A
4.	Adapter	Aohai	G9BR1	FCC DoC	N/A	N/A
5.	Adapter	PHILIPS	DLP6341C	NA	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "putty 0.78" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

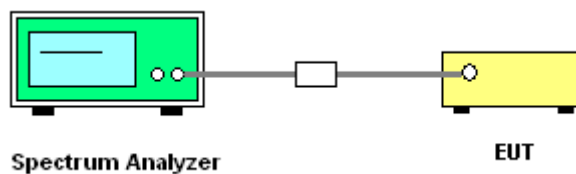
See list of measuring equipment of this test report.

3.1.3 Test Procedures

The testing follows FCC KDB 291074 D02 EMC Measurement v01 Section 2.11 Minimum Emission bandwidth

1. Set RBW = 100 kHz.
2. Set the VBW $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum E.I.R.P Output Power Measurement

3.2.1 Limit of Maximum E.I.R.P Output Power

For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

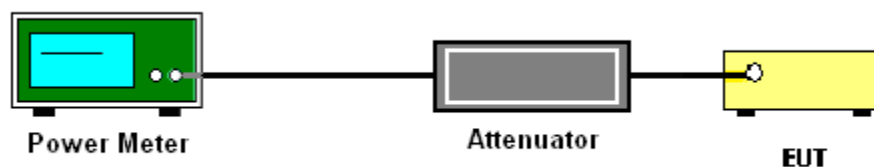
3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

1. For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band
2. For client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands shall meet both 15.407(a)(3)(i) 30dBm/500kHz and 15.407(a)(3)(iii) 14dBm/MHz limit, where the stringent limit 14dBm/MHz is applied.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

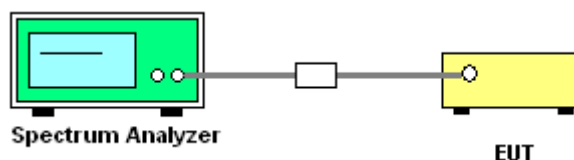
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as 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

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu\text{V/m, where P is the eirp (Watts)}$$

- (2) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

15.407(b)(5)(i), all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

All emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

- (3) KDB789033 D02 v02r01 G)2)c)

Use guidance in KDB Publication 789033 for all measurements. Unwanted emissions outside of restricted bands are measured with an RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

Unwanted band-edge emissions may be measured using the integration method as described in KDB Publication 789033 3. d) (ii). Emissions below 5725 MHz should be measured using peak-detection while emission above 5895 MHz should be measured using average.

Frequency(GHz)	EIRP (dBm)	Field Strength @3m distance (dBuV/m)	Note
Below 5.65	-27dBm/MHz	68.2	Peak
5.7	10dBm/MHz	105.2	Peak
5.72	15.6dBm/MHz	110.8	Peak
5.725	27dBm/MHz	122.2	Peak
5.895	-5dBm/MHz	90.2	Average
5.895	15dBm/MHz	110.2	Peak
Above 5.925	-27dBm/MHz	68.2	Average
Above 5.925	-7dBm/MHz	88.2	Peak

Note: Field strength at 3 m distance is converted to EIRP as the following equation:

$$\text{EIRP[dBm]} = \text{E[dBuV/m]} - 95.2$$

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

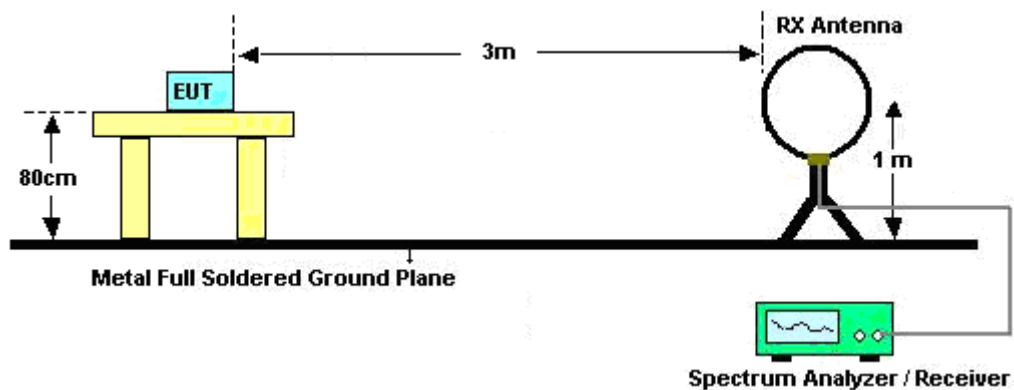
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- $\text{VBW} \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

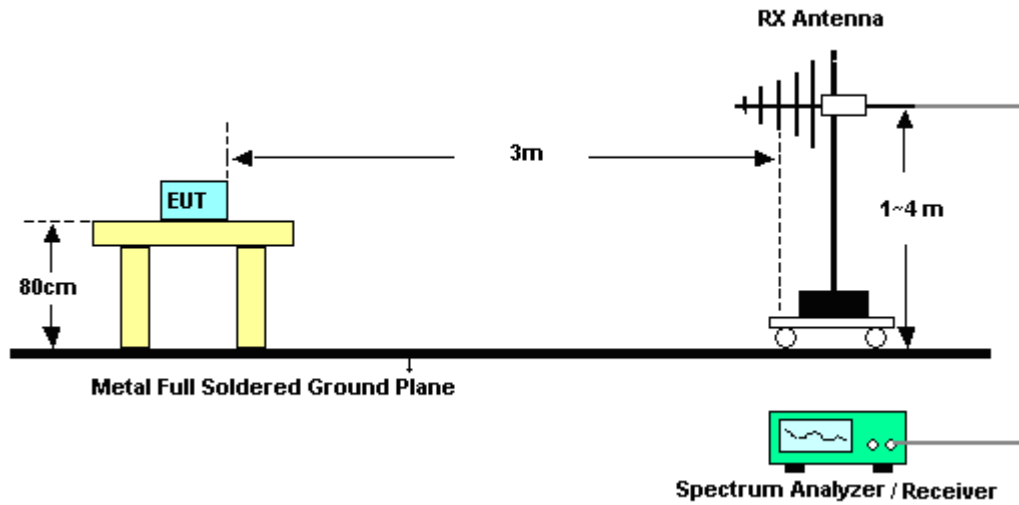
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was placed at distance 3 meter from measurement antenna which was mounted on the top of a variable height antenna tower.
4. The measurement antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6dB margin against average limit line, the position is marked as “-”.

3.4.4 Test Setup

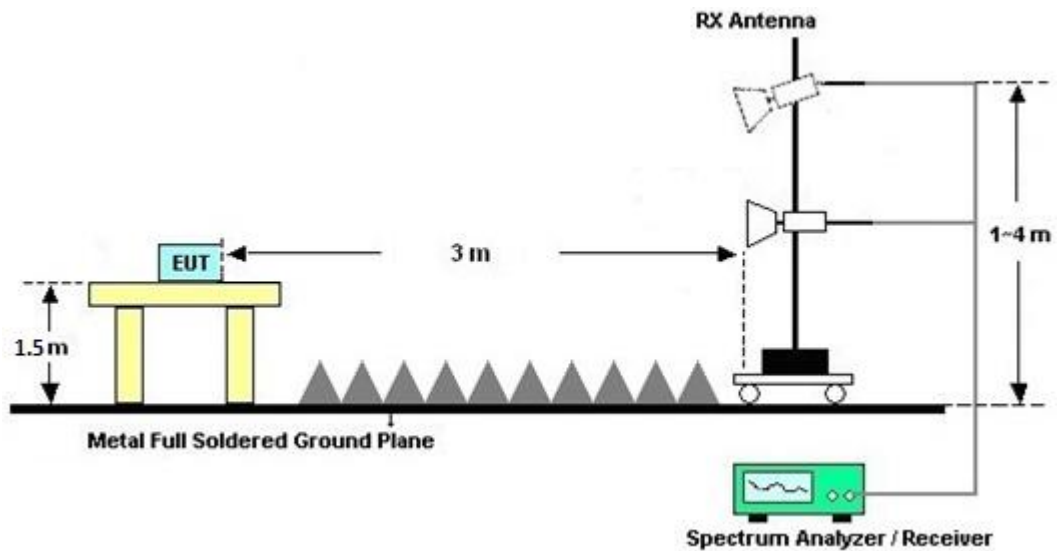
For radiated emissions below 30MHz



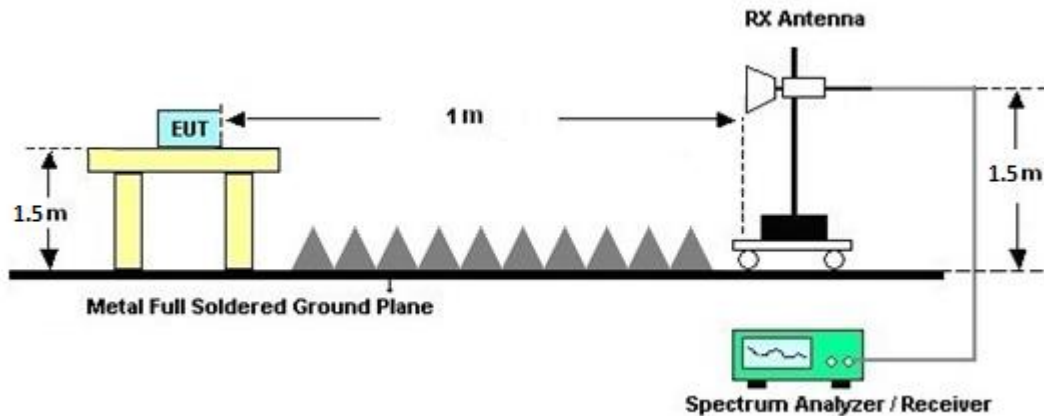
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

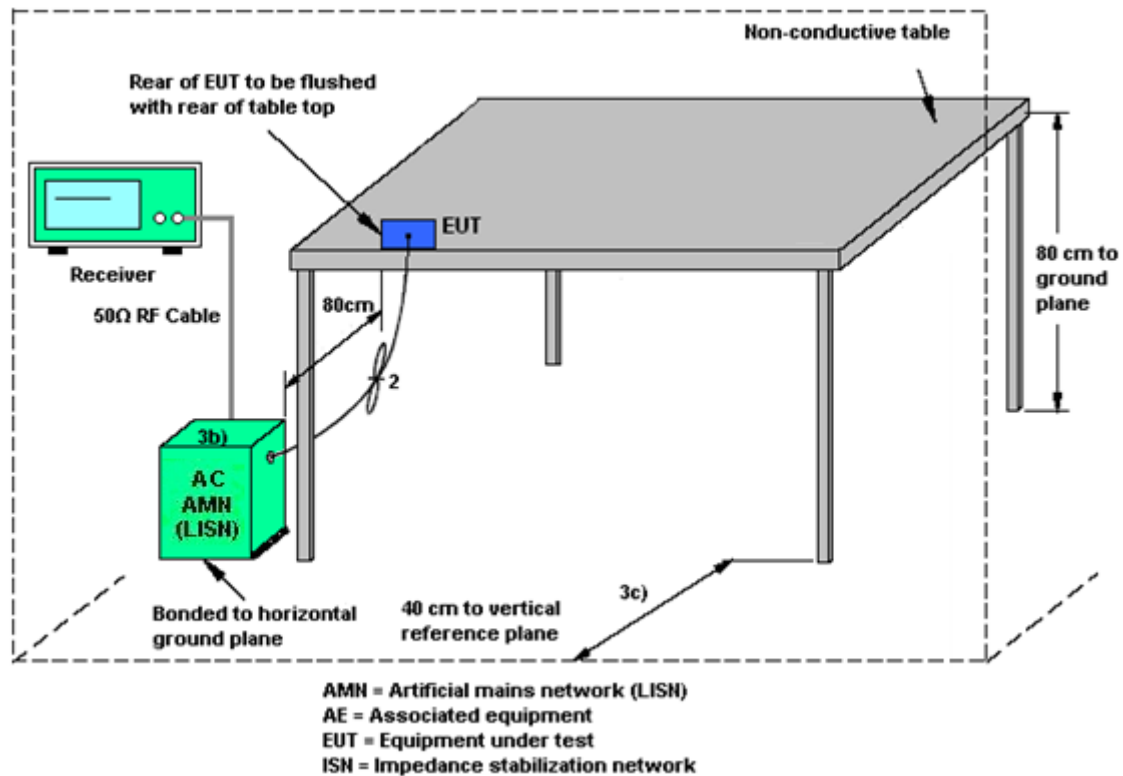
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 27, 2023	Apr. 22, 2024~ May 11, 2024	Nov. 26, 2024	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010180 0-30-10P	1590075	1GHz~18GHz	Apr. 19, 2024	Apr. 22, 2024~ May 11, 2024	Apr. 18, 2025	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 23, 2024	Apr. 22, 2024~ May 11, 2024	Mar. 22, 2025	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 25, 2023	Apr. 22, 2024~ May 11, 2024	Jul. 24, 2024	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 26, 2024	Apr. 22, 2024~ May 11, 2024	Mar. 25, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 21, 2024	Apr. 22, 2024~ May 11, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 21, 2024	Apr. 22, 2024~ May 11, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 15, 2023	Apr. 22, 2024~ May 11, 2024	Sep. 14, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 21, 2024	Apr. 22, 2024~ May 11, 2024	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 22, 2024	Apr. 22, 2024~ May 11, 2024	Apr. 21, 2025	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Apr. 22, 2024~ May 11, 2024	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Apr. 22, 2024~ May 11, 2024	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Apr. 22, 2024~ May 11, 2024	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Apr. 22, 2024~ May 11, 2024	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Apr. 22, 2024~ May 11, 2024	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 01, 2024	Apr. 22, 2024~ May 11, 2024	Feb. 28, 2025	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 24, 2023	Apr. 22, 2024~ May 11, 2024	Nov. 23, 2024	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Apr. 22, 2024~ May 11, 2024	Feb. 22, 2025	Radiation (03CH07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Apr. 23, 2024~ May 12, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3008W	RPR8W-2301 017 (NO:20)	10MHz~8GHz	Jul. 26, 2023	Apr. 23, 2024~ May 12, 2024	Jul. 25, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Aug. 30, 2023	Apr. 23, 2024~ May 12, 2024	Aug. 31, 2024	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GEU810970	0V~64V ; 0A~6A	Nov. 16, 2023	Apr. 23, 2024~ May 12, 2024	Nov. 15, 2024	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 27, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Apr. 27, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Apr. 27, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Apr. 27, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Apr. 27, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	00691	N/A	Jul. 28, 2023	Apr. 27, 2024	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	Apr. 27, 2024	Dec. 27, 2024	Conduction (CO05-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
---	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kevin Xiao	Temperature:	21~25	°C
Test Date:	2024/4/23~2024/5/12	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

UNII-4 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	169	5845	16.83	-	20.14	-	16.35	-	0.5	Pass
11a	6Mbps	1	173	5865	16.78	-	19.94	-	16.35	-	0.5	Pass
11a	6Mbps	1	177	5885	16.88	-	19.90	-	16.35	-	0.5	Pass
VHT20	MCS0	1	169	5845	17.73	-	20.38	-	17.07	-	0.5	Pass
VHT20	MCS0	1	173	5865	17.73	-	20.43	-	17.53	-	0.5	Pass
VHT20	MCS0	1	177	5885	17.78	-	20.47	-	17.53	-	0.5	Pass
VHT40	MCS0	1	167	5835	36.76	-	41.97	-	35.46	-	0.5	Pass
VHT40	MCS0	1	175	5875	36.76	-	41.62	-	35.67	-	0.5	Pass
VHT80	MCS0	1	171	5855	76.48	-	81.86	-	76.35	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	169	5845	8.80	-	-	30.00	-	0.40	-	Pass
11a	6Mbps	1	173	5865	8.80	-		30.00	-	0.40	-	Pass
11a	6Mbps	1	177	5885	8.70	-		30.00	-	0.40	-	Pass
HT20	MCS0	1	169	5845	8.70	-		30.00	-	0.40	-	Pass
HT20	MCS0	1	173	5865	8.70	-		30.00	-	0.40	-	Pass
HT20	MCS0	1	177	5885	8.70	-		30.00	-	0.40	-	Pass
HT40	MCS0	1	167	5835	8.70	-		30.00	-	0.40	-	Pass
HT40	MCS0	1	175	5875	8.70	-		30.00	-	0.40	-	Pass
VHT20	MCS0	1	169	5845	8.80	-		30.00	-	0.40	-	Pass
VHT20	MCS0	1	173	5865	8.80	-		30.00	-	0.40	-	Pass
VHT20	MCS0	1	177	5885	8.80	-		30.00	-	0.40	-	Pass
VHT40	MCS0	1	167	5835	8.80	-		30.00	-	0.40	-	Pass
VHT40	MCS0	1	175	5875	8.80	-		30.00	-	0.40	-	Pass
VHT80	MCS0	1	171	5855	8.80	-		30.00	-	0.40	-	Pass

TEST RESULTS DATA
Power Spectral Density

UNII-4 single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP PSD (dBm/MHz)		EIRP PSD Limit (dBm/MHz)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	169	5845	0.05	-	-2.88	-	-	0.40	-	-2.48	-	14.00	14.00	Pass
11a	6Mbps	1	173	5865	0.05	-	-2.94	-		0.40	-	-2.54	-	14.00	14.00	Pass
11a	6Mbps	1	177	5885	0.05	-	-3.02	-		0.40	-	-2.62	-	14.00	14.00	Pass
VHT20	MCS0	1	169	5845	0.05	-	-2.94	-		0.40	-	-2.54	-	14.00	14.00	Pass
VHT20	MCS0	1	173	5865	0.05	-	-3.09	-		0.40	-	-2.69	-	14.00	14.00	Pass
VHT20	MCS0	1	177	5885	0.05	-	-3.13	-		0.40	-	-2.73	-	14.00	14.00	Pass
VHT40	MCS0	1	167	5835	0.10	-	-5.99	-		0.40	-	-5.59	-	14.00	14.00	Pass
VHT40	MCS0	1	175	5875	0.10	-	-6.11	-		0.40	-	-5.71	-	14.00	14.00	Pass
VHT80	MCS0	1	171	5855	0.20	-	-9.81	-		0.40	-	-9.41	-	14.00	14.00	Pass

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

UNII-4 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	169	5845	Full	18.78	-	20.70	-	18.36	-	0.5	Pass
HE20	MCS0	1	173	5865	Full	18.78	-	20.70	-	18.27	-	0.5	Pass
HE20	MCS0	1	177	5885	Full	18.78	-	20.58	-	18.43	-	0.5	Pass
HE40	MCS0	1	167	5835	Full	37.96	-	41.63	-	36.39	-	0.5	Pass
HE40	MCS0	1	175	5875	Full	37.86	-	41.60	-	36.41	-	0.5	Pass
HE80	MCS0	1	171	5855	Full	77.68	-	80.90	-	77.90	-	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	169	5845	Full	8.90	-	-	30.00	-	0.40	-	Pass
HE20	MCS0	1	169	5845	26/0	-0.50	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	169	5845	52/37	1.80	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	169	5845	106/53	5.10	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	173	5865	Full	8.90	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	173	5865	26/4	0.70	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	173	5865	52/38	2.30	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	173	5865	106/53	5.20	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	177	5885	Full	8.90	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	177	5885	26/8	-0.60	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	177	5885	52/40	1.70	-		30.00	-	0.40	-	Pass
HE20	MCS0	1	177	5885	106/54	5.10	-		30.00	-	0.40	-	Pass
HE40	MCS0	1	167	5835	Full	8.90	-		30.00	-	0.40	-	Pass
HE40	MCS0	1	167	5835	242/61	5.70	-		30.00	-	0.40	-	Pass
HE40	MCS0	1	175	5875	Full	8.90	-		30.00	-	0.40	-	Pass
HE40	MCS0	1	175	5875	242/62	5.60	-		30.00	-	0.40	-	Pass
HE80	MCS0	1	171	5855	Full	8.90	-		30.00	-	0.40	-	Pass
HE80	MCS0	1	171	5855	484/65	5.30	-		30.00	-	0.40	-	Pass
HE80	MCS0	1	171	5855	484/66	5.20	-		30.00	-	0.40	-	Pass

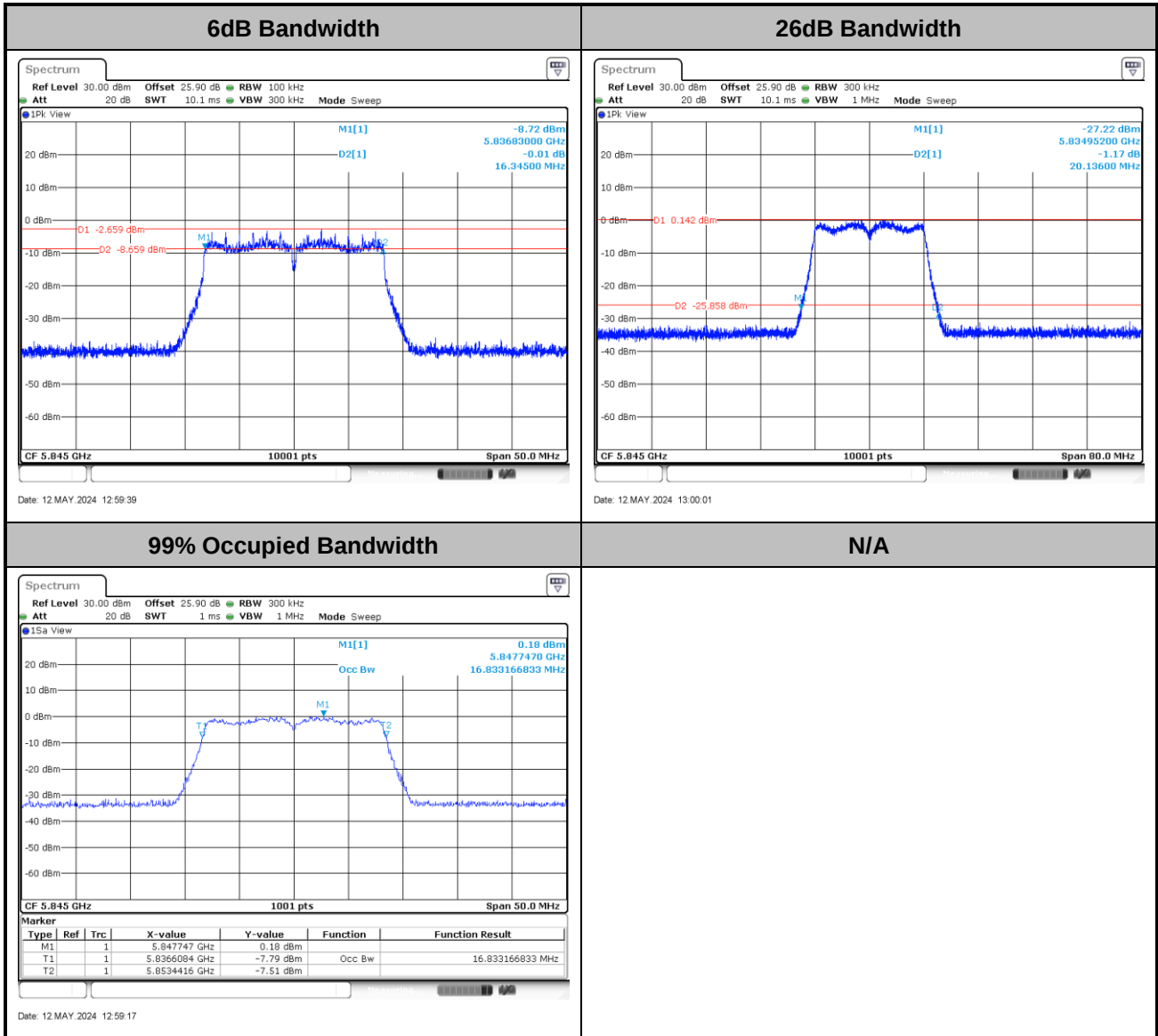
TEST RESULTS DATA
Power Spectral Density

UNII-4 single antenna																	
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP PSD (dBm/MHz)		EIRP PSD Limit (dBm/MHz)		Pass. /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	169	5845	Full	0.06	-	-3.03	-		0.40	-	-2.63	-	14.00	14.00	Pass
HE20	MCS0	1	169	5845	26/0	0.05	-	-3.14	-		0.40	-	-2.74	-	14.00	14.00	Pass
HE20	MCS0	1	169	5845	52/37	0.06	-	-3.39	-		0.40	-	-2.99	-	14.00	14.00	Pass
HE20	MCS0	1	169	5845	106/53	0.05	-	-3.19	-		0.40	-	-2.79	-	14.00	14.00	Pass
HE20	MCS0	1	173	5865	Full	0.06	-	-3.12	-		0.40	-	-2.72	-	14.00	14.00	Pass
HE20	MCS0	1	173	5865	26/4	0.05	-	-3.25	-		0.40	-	-2.85	-	14.00	14.00	Pass
HE20	MCS0	1	173	5865	52/38	0.06	-	-3.21	-		0.40	-	-2.81	-	14.00	14.00	Pass
HE20	MCS0	1	173	5865	106/53	0.05	-	-3.30	-		0.40	-	-2.90	-	14.00	14.00	Pass
HE20	MCS0	1	177	5885	Full	0.06	-	-3.17	-		0.40	-	-2.77	-	14.00	14.00	Pass
HE20	MCS0	1	177	5885	26/8	0.05	-	-3.18	-		0.40	-	-2.78	-	14.00	14.00	Pass
HE20	MCS0	1	177	5885	52/40	0.06	-	-3.51	-		0.40	-	-3.11	-	14.00	14.00	Pass
HE20	MCS0	1	177	5885	106/54	0.05	-	-3.65	-		0.40	-	-3.25	-	14.00	14.00	Pass
HE40	MCS0	1	167	5835	Full	0.12	-	-5.94	-		0.40	-	-5.54	-	14.00	14.00	Pass
HE40	MCS0	1	167	5835	242/61	0.05	-	-6.16	-		0.40	-	-5.76	-	14.00	14.00	Pass
HE40	MCS0	1	175	5875	Full	0.12	-	-6.01	-		0.40	-	-5.61	-	14.00	14.00	Pass
HE40	MCS0	1	175	5875	242/62	0.05	-	-6.23	-	0.40	-	-5.83	-	14.00	14.00	Pass	
HE80	MCS0	1	171	5855	Full	0.23	-	-8.96	-	0.40	-	-8.56	-	14.00	14.00	Pass	
HE80	MCS0	1	171	5855	484/65	0.06	-	-9.49	-	0.40	-	-9.09	-	14.00	14.00	Pass	
HE80	MCS0	1	171	5855	484/66	0.06	-	-9.45	-	0.40	-	-9.05	-	14.00	14.00	Pass	

**Test Result of 6dB and 26dB and 99% Occupied Bandwidth**

<Ant. 1>

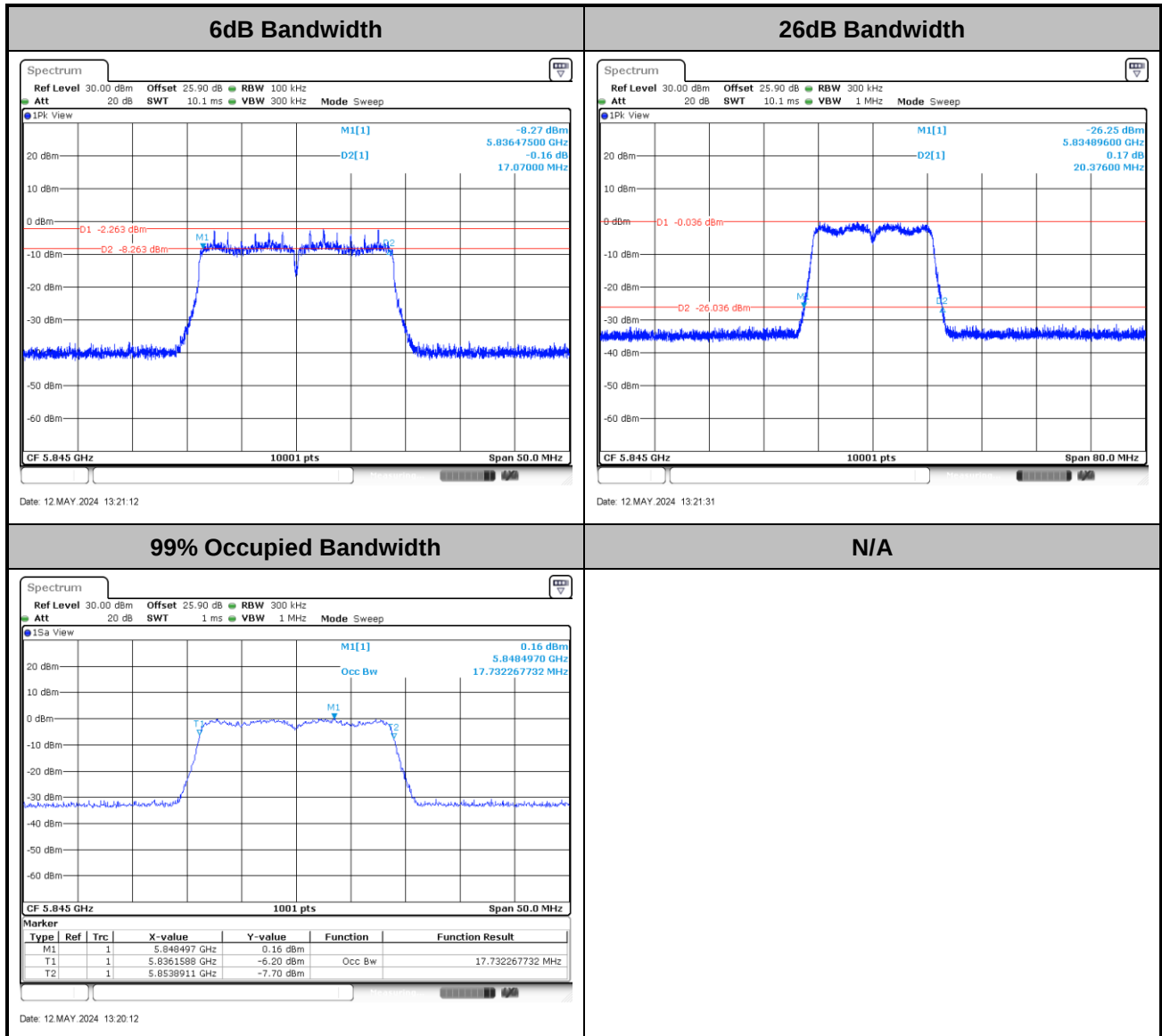
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Note: The occupied channel bandwidth is maintained within the band of operation.



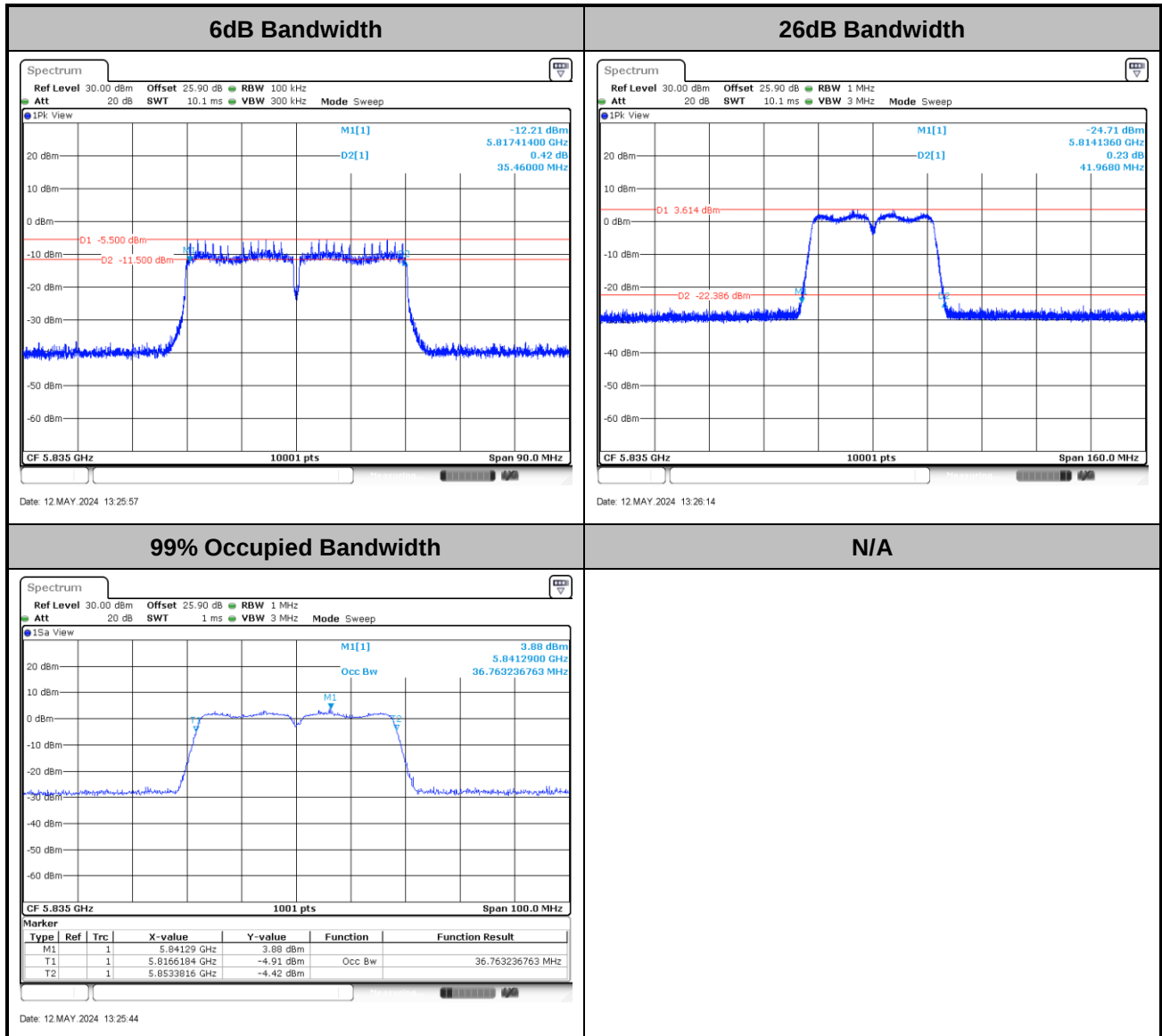
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Note: The occupied channel bandwidth is maintained within the band of operation.



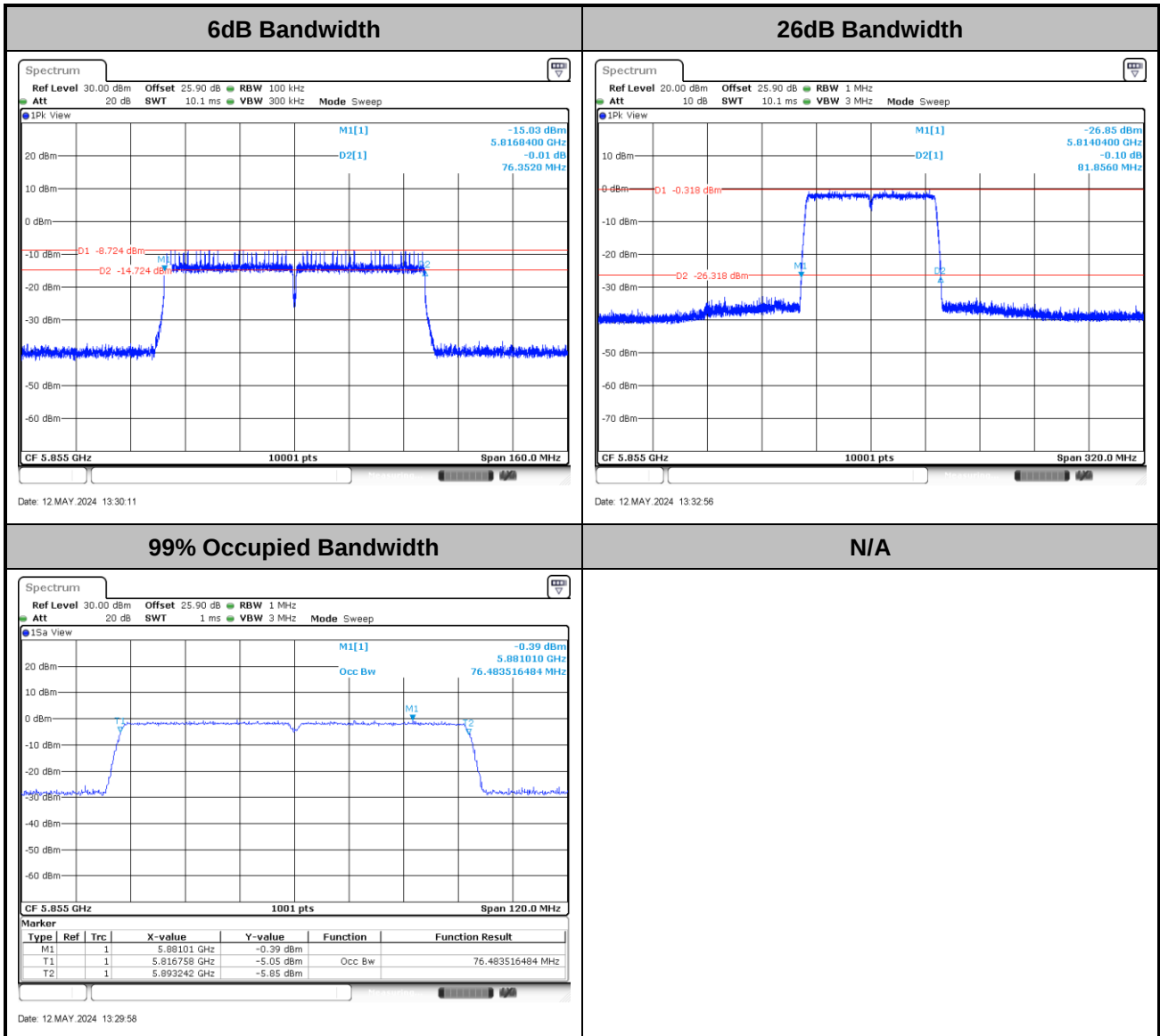
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Note: The occupied channel bandwidth is maintained within the band of operation.



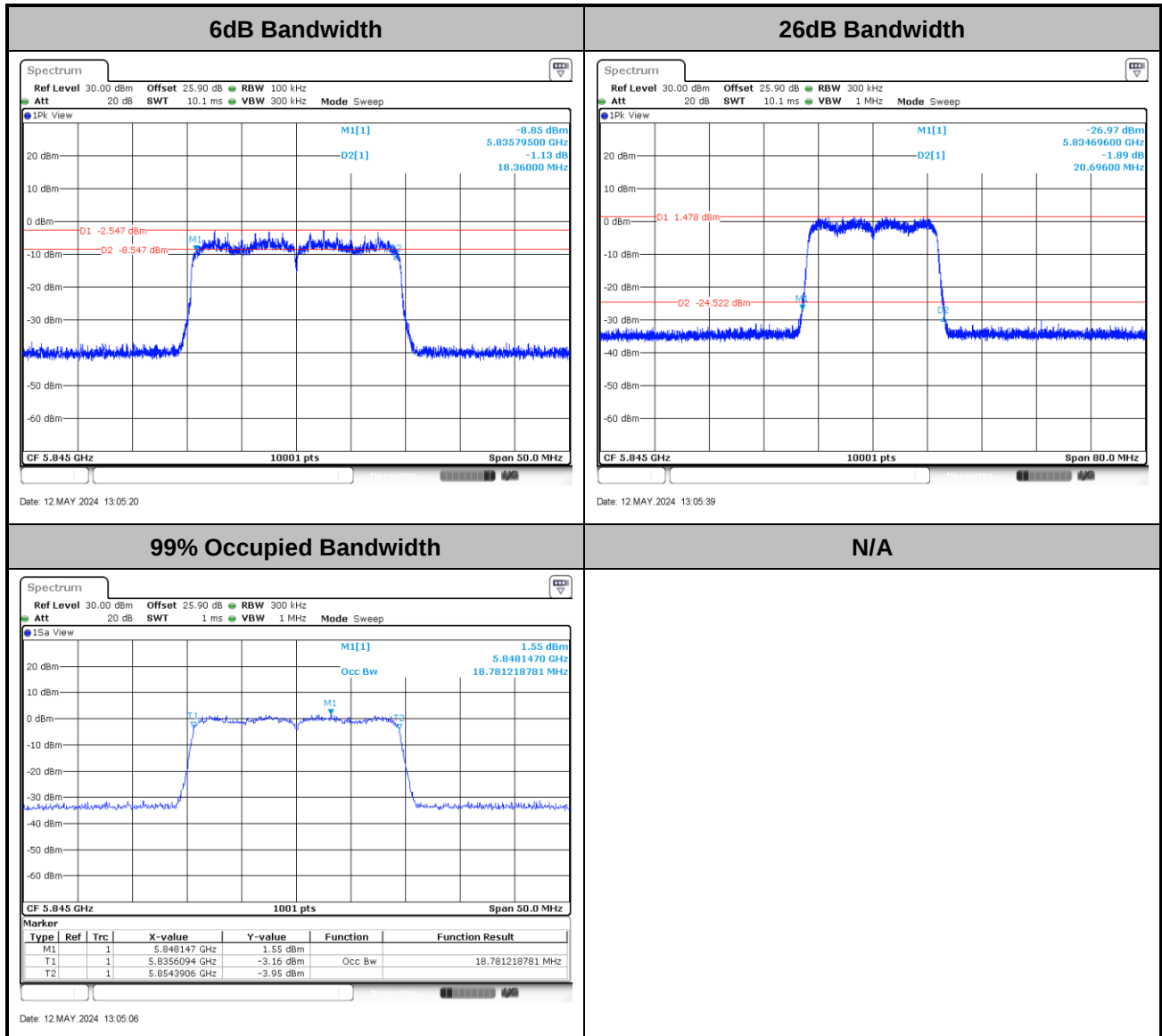
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Note: The occupied channel bandwidth is maintained within the band of operation.



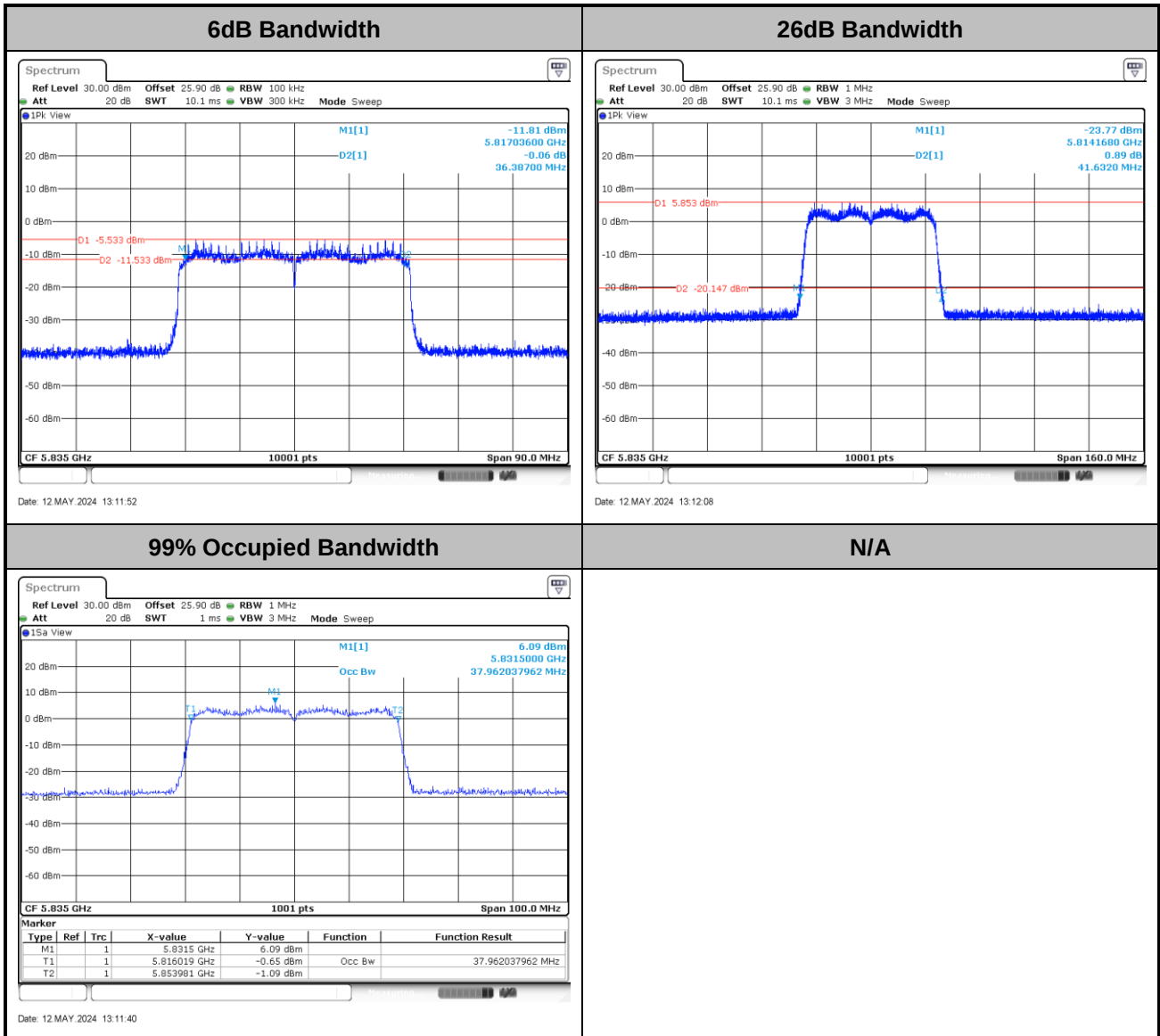
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Note: The occupied channel bandwidth is maintained within the band of operation.



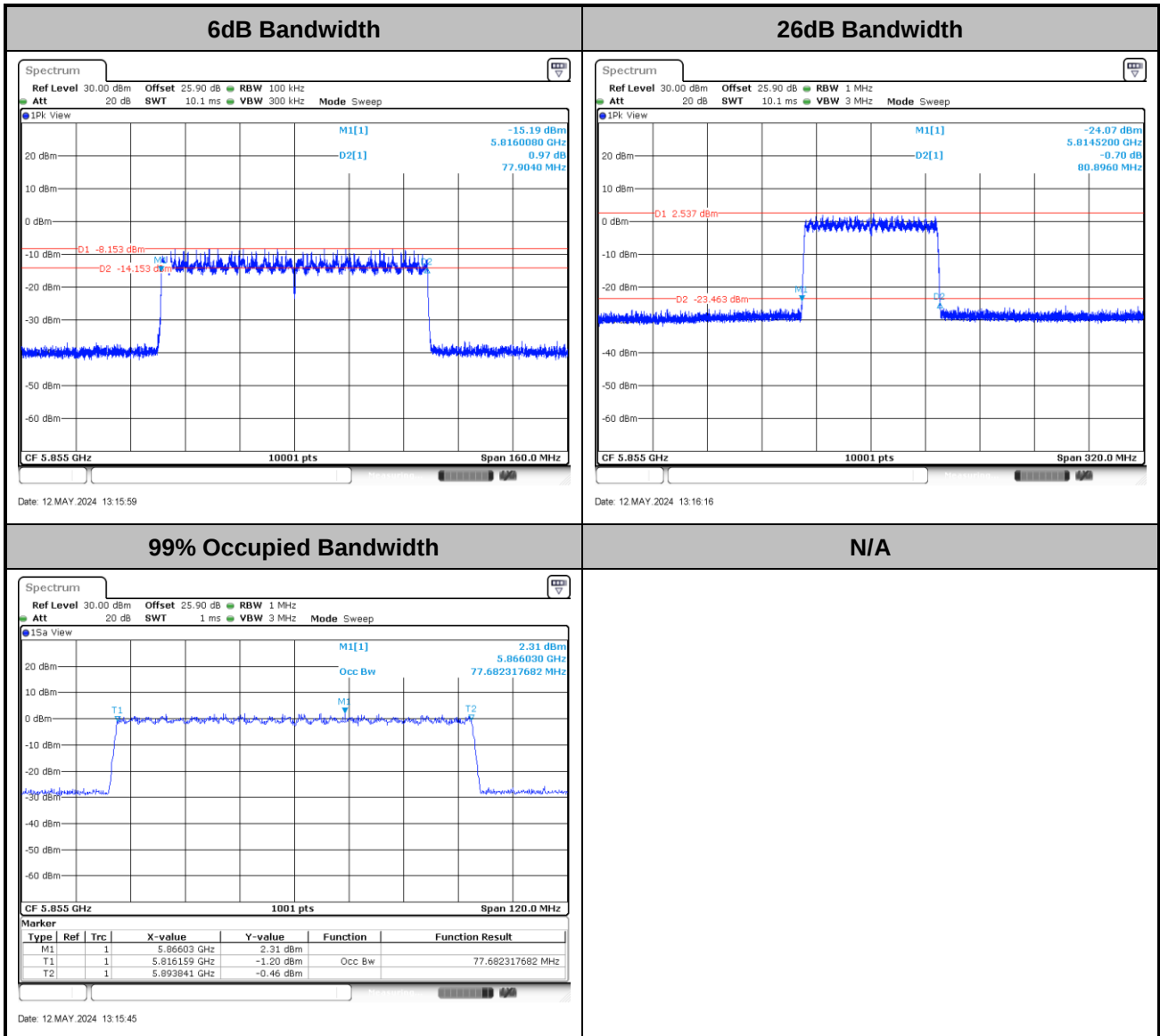
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Note: The occupied channel bandwidth is maintained within the band of operation.



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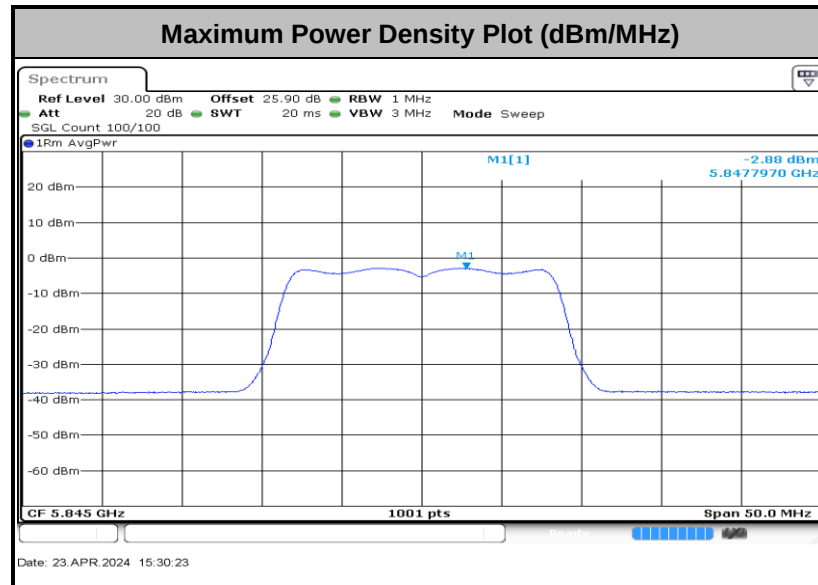


Note: The occupied channel bandwidth is maintained within the band of operation.

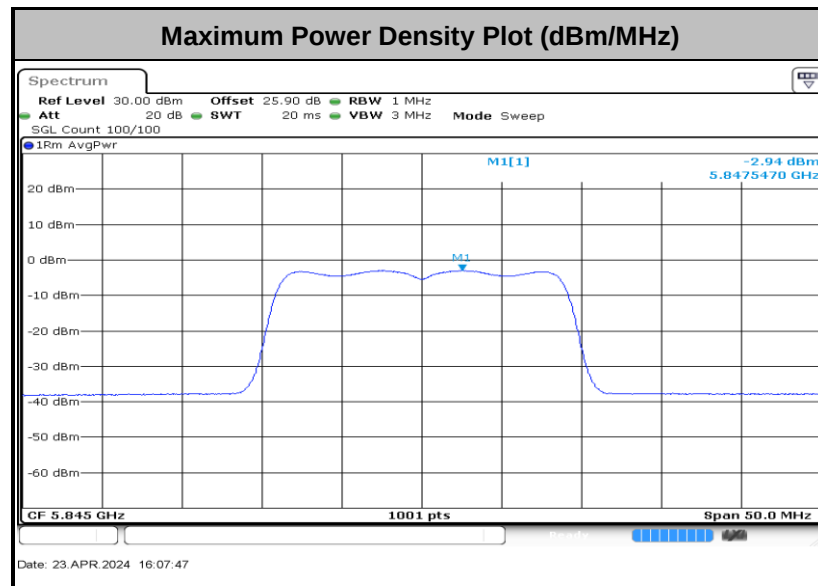


Test Result of Power Spectral Density

<802.11a>

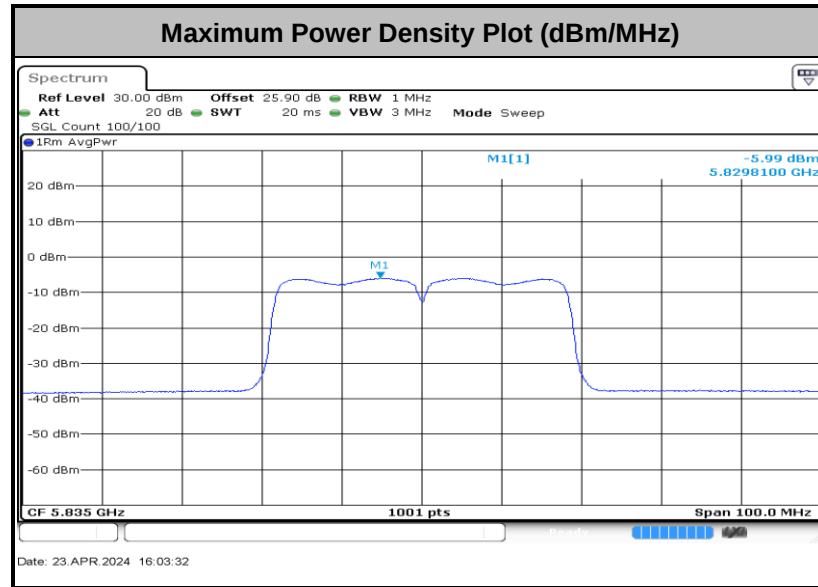


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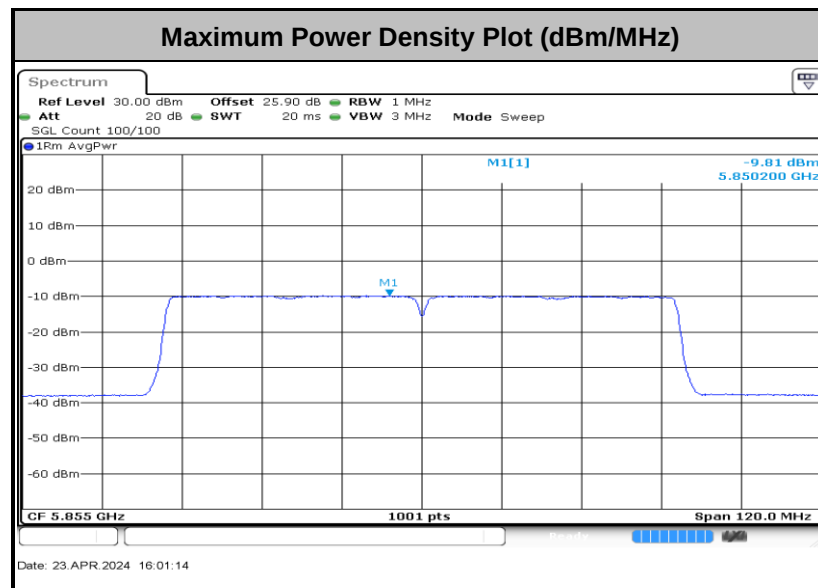




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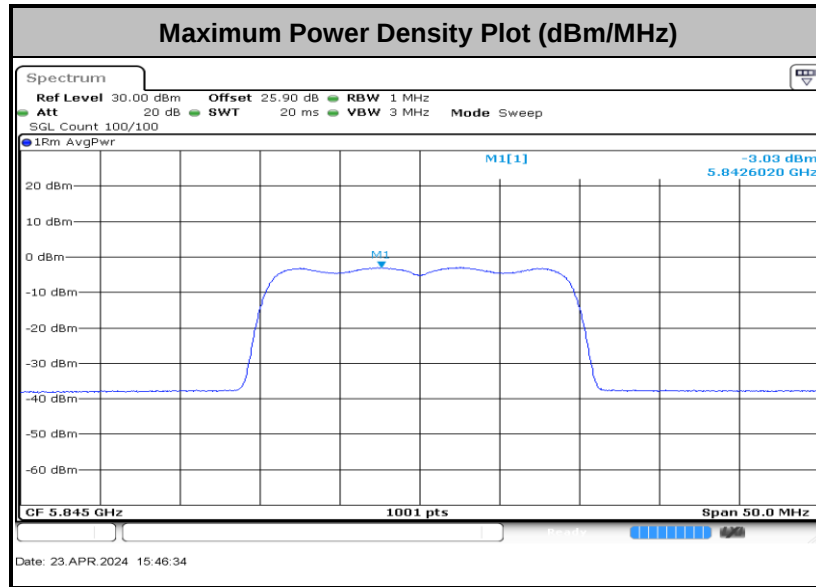


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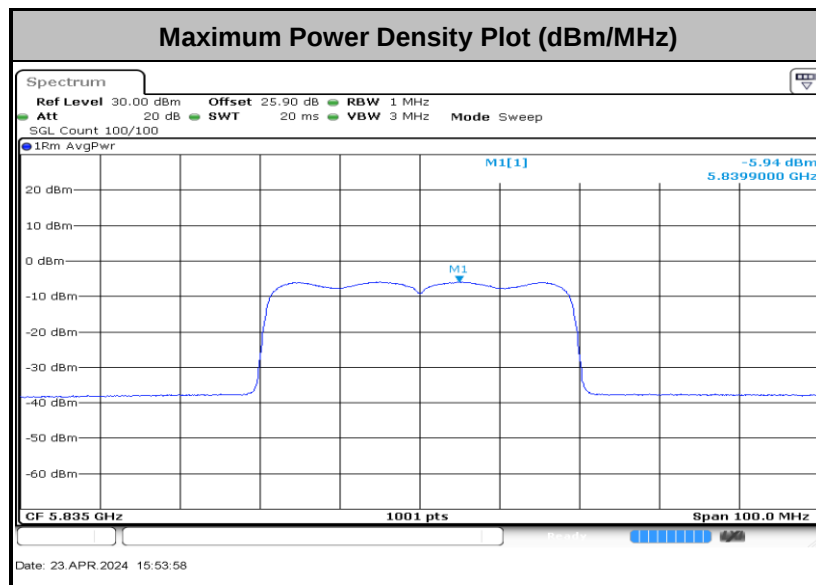




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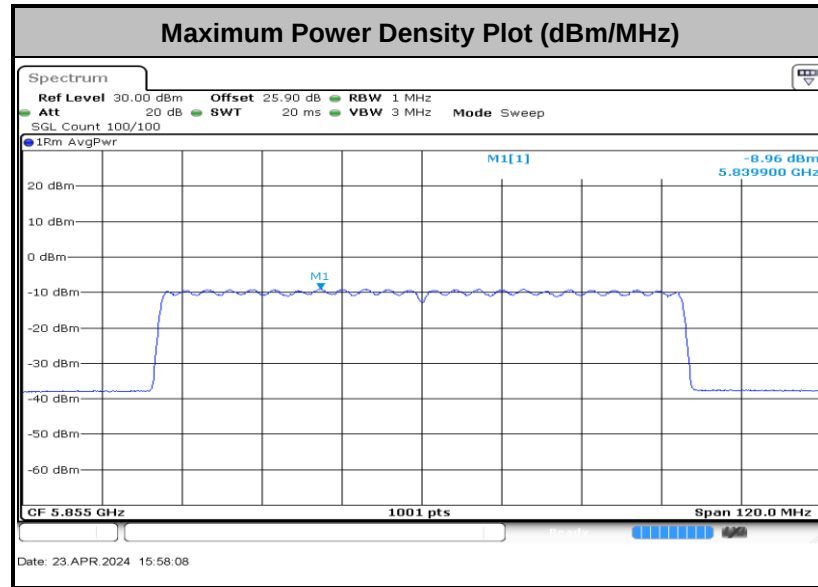


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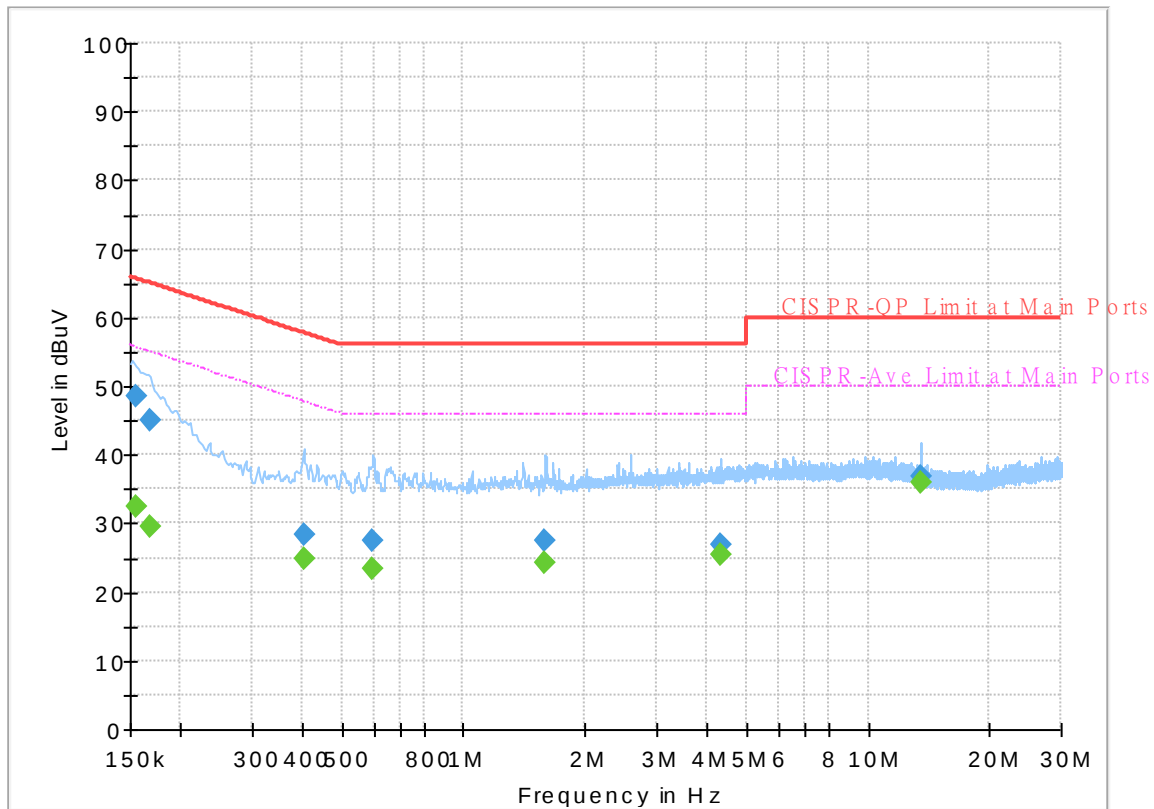
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO : 432902
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



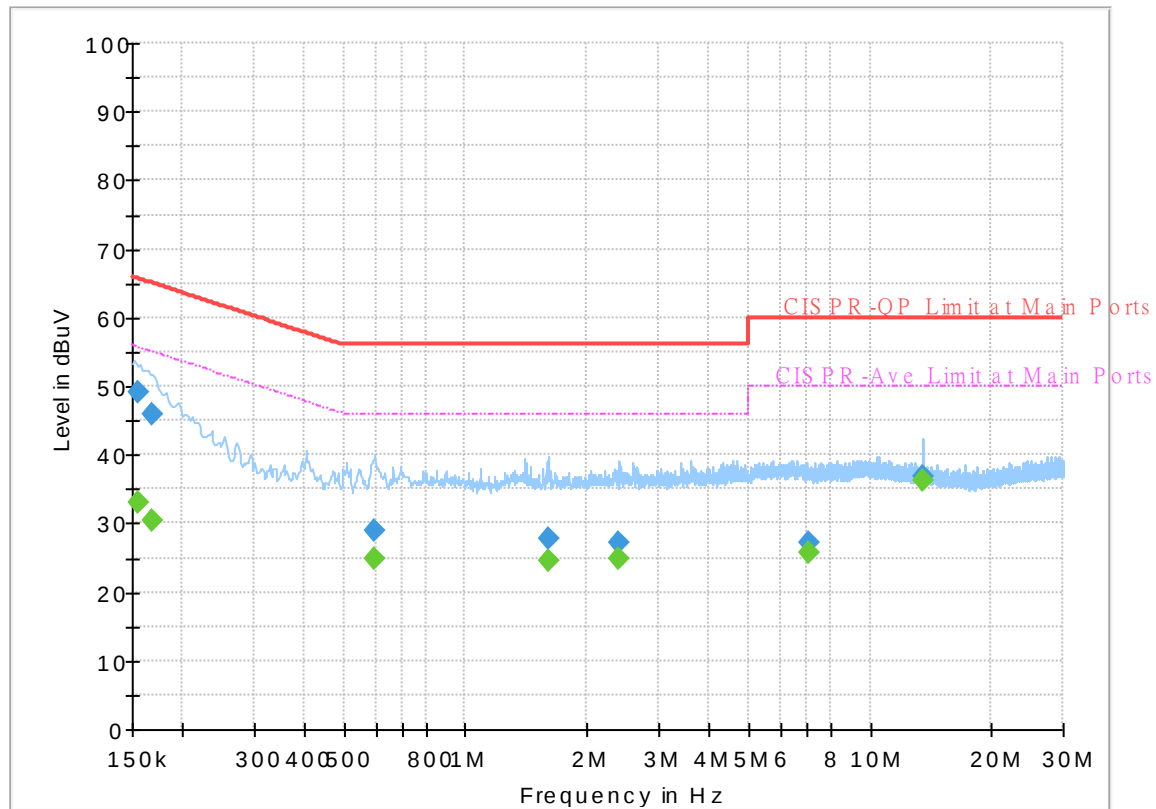
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	32.31	55.75	23.44	L1	OFF	19.8
0.154500	48.44	---	65.75	17.31	L1	OFF	19.8
0.168000	---	29.44	55.06	25.62	L1	OFF	19.8
0.168000	45.04	---	65.06	20.02	L1	OFF	19.8
0.402000	---	24.82	47.81	22.99	L1	OFF	19.8
0.402000	28.42	---	57.81	29.39	L1	OFF	19.8
0.597750	---	23.27	46.00	22.73	L1	OFF	19.8
0.597750	27.52	---	56.00	28.48	L1	OFF	19.8
1.594500	---	24.38	46.00	21.62	L1	OFF	19.9
1.594500	27.57	---	56.00	28.43	L1	OFF	19.9
4.339500	---	25.38	46.00	20.62	L1	OFF	19.9
4.339500	26.88	---	56.00	29.12	L1	OFF	19.9
13.560000	---	36.07	50.00	13.93	L1	OFF	20.2
13.560000	36.75	---	60.00	23.25	L1	OFF	20.2

EUT Information

Report NO : 432902
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	33.03	55.75	22.72	N	OFF	19.8
0.154500	49.22	---	65.75	16.53	N	OFF	19.8
0.168000	---	30.48	55.06	24.58	N	OFF	19.8
0.168000	45.79	---	65.06	19.27	N	OFF	19.8
0.593250	---	24.72	46.00	21.28	N	OFF	19.8
0.593250	28.88	---	56.00	27.12	N	OFF	19.8
1.596750	---	24.48	46.00	21.52	N	OFF	19.9
1.596750	27.92	---	56.00	28.08	N	OFF	19.9
2.404500	---	24.80	46.00	21.20	N	OFF	19.9
2.404500	27.26	---	56.00	28.74	N	OFF	19.9
7.082250	---	25.70	50.00	24.30	N	OFF	20.1
7.082250	27.05	---	60.00	32.95	N	OFF	20.1
13.560000	---	36.17	50.00	13.83	N	OFF	20.3
13.560000	36.88	---	60.00	23.12	N	OFF	20.3



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	22.1~26°C
		Relative Humidity :	48.2~69.5%

UNII 4 - 5850~5895MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 169 5845MHz		5644.545	48.91	-19.29	68.2	35.8	34.97	12.84	34.7	400	265	P	H
		5696.76	48.66	-54.15	102.81	35.28	35.19	12.92	34.73	400	265	P	H
		5719.77	49.09	-61.65	110.74	35.68	35.2	12.95	34.74	400	265	P	H
		5723.9	49.14	-70.55	119.69	35.73	35.2	12.96	34.75	400	265	P	H
	*	5845	95.47	-	-	82.15	35.02	13.11	34.81	400	265	P	H
	*	5845	88.42	-	-	75.1	35.02	13.11	34.81	400	265	A	H
		5895	44.93	-65.27	110.2	31.53	35.09	13.15	34.84	400	265	P	H
		5957.25	50.74	-37.46	88.2	37.39	35.03	13.2	34.88	400	265	P	H
		5923.75	41.52	-27.59	69.11	28.16	35.05	13.17	34.86	400	265	A	H
		5957.25	41.51	-26.69	68.2	28.16	35.03	13.2	34.88	400	265	A	H
		5640.415	50.47	-17.73	68.2	37.39	34.94	12.84	34.7	276	217	P	V
		5667.26	49.11	-31.9	81.01	35.87	35.07	12.88	34.71	276	217	P	V
		5701.185	50.06	-55.47	105.53	36.66	35.2	12.93	34.73	276	217	P	V
		5723.605	47.66	-71.36	119.02	34.25	35.2	12.96	34.75	276	217	P	V
	*	5845	99.81	-	-	86.49	35.02	13.11	34.81	276	217	P	V
	*	5845	92.29	-	-	78.97	35.02	13.11	34.81	276	217	A	V
		5905	50.25	-52.6	102.85	36.86	35.09	13.15	34.85	276	217	P	V
		5932.25	51.06	-37.14	88.2	37.7	35.04	13.18	34.86	276	217	P	V
		5921.25	41.59	-29.35	70.94	28.22	35.06	13.17	34.86	276	217	A	V
		5926.5	41.59	-26.61	68.2	28.23	35.05	13.17	34.86	276	217	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 173 5865MHz		5624.78	48.4	-19.8	68.2	35.42	34.85	12.82	34.69	400	264	P	H
		5689.385	48.56	-48.81	97.37	35.22	35.16	12.91	34.73	400	264	P	H
		5714.755	48.53	-60.8	109.33	35.12	35.2	12.95	34.74	400	264	P	H
		5721.245	47.49	-66.15	113.64	34.07	35.2	12.96	34.74	400	264	P	H
	*	5865	96.23	-	-	82.9	35.03	13.12	34.82	400	264	P	H
	*	5865	87.99	-	-	74.66	35.03	13.12	34.82	400	264	A	H
		5916.75	50.33	-43.91	94.24	36.95	35.07	13.16	34.85	400	264	P	H
		5948	50.81	-37.39	88.2	37.49	35	13.19	34.87	400	264	P	H
		5921	41.55	-29.58	71.13	28.18	35.06	13.17	34.86	400	264	A	H
		5969.25	41.52	-26.68	68.2	28.11	35.08	13.21	34.88	400	264	A	H
		5617.7	48.75	-19.45	68.2	35.82	34.81	12.81	34.69	290	215	P	V
		5674.34	48.65	-37.6	86.25	35.38	35.1	12.89	34.72	290	215	P	V
		5712.69	49.32	-59.44	108.76	35.92	35.2	12.94	34.74	290	215	P	V
		5723.9	48.85	-70.84	119.69	35.44	35.2	12.96	34.75	290	215	P	V
	*	5865	99.75	-	-	86.42	35.03	13.12	34.82	290	215	P	V
	*	5865	91.68	-	-	78.35	35.03	13.12	34.82	290	215	A	V
		5913.25	49.96	-46.84	96.8	36.58	35.07	13.16	34.85	290	215	P	V
		5946.75	51.58	-36.62	88.2	38.25	35.01	13.19	34.87	290	215	P	V
		5898.75	41.73	-45.71	87.44	28.32	35.1	13.15	34.84	290	215	A	V
		5925	41.56	-26.64	68.2	28.2	35.05	13.17	34.86	290	215	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 177 5885MHz		5606.195	48.32	-19.88	68.2	35.47	34.74	12.79	34.68	400	250	P	H
		5662.54	49.43	-28.08	77.51	36.22	35.05	12.87	34.71	400	250	P	H
		5712.985	50.37	-58.47	108.84	36.97	35.2	12.94	34.74	400	250	P	H
		5722.13	48.21	-67.45	115.66	34.79	35.2	12.96	34.74	400	250	P	H
	*	5885	95.56	-	-	82.19	35.07	13.14	34.84	400	250	P	H
	*	5885	88.01	-	-	74.64	35.07	13.14	34.84	400	250	A	H
		5895	68.98	-41.22	110.2	55.58	35.09	13.15	34.84	400	250	P	H
		5933	50.88	-37.32	88.2	37.53	35.03	13.18	34.86	400	250	P	H
		5895	57.92	-32.28	90.2	44.52	35.09	13.15	34.84	400	250	A	H
		5957.75	41.55	-26.65	68.2	28.2	35.03	13.2	34.88	400	250	A	H
		5602.065	49.05	-19.15	68.2	36.24	34.71	12.78	34.68	287	218	P	V
		5655.46	48.96	-23.3	72.26	35.79	35.02	12.86	34.71	287	218	P	V
		5703.545	48.22	-57.97	106.19	34.82	35.2	12.93	34.73	287	218	P	V
		5721.54	47.52	-66.79	114.31	34.1	35.2	12.96	34.74	287	218	P	V
	*	5885	99.07	-	-	85.7	35.07	13.14	34.84	287	218	P	V
	*	5885	91.39	-	-	78.02	35.07	13.14	34.84	287	218	A	V
		5895	74.87	-35.33	110.2	61.47	35.09	13.15	34.84	287	218	P	V
		5935.25	51.6	-36.6	88.2	38.25	35.03	13.18	34.86	287	218	P	V
		5895	61.47	-28.73	90.2	48.07	35.09	13.15	34.84	287	218	A	V
		5926	41.62	-26.58	68.2	28.26	35.05	13.17	34.86	287	218	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**UNII 4 - 5850~5895MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 169 5845MHz		11690	45.4	-28.6	74	43.75	38.66	19.63	56.64	-	-	P	H
		17535	50.03	-18.17	68.2	40.11	41.33	24.12	55.53	-	-	P	H
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		11690	45.64	-28.36	74	43.99	38.66	19.63	56.64	-	-	P	V
		17535	49.58	-18.62	68.2	39.66	41.33	24.12	55.53	-	-	P	V
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WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 173 5865MHz		11730	45.27	-28.73	74	43.55	38.64	19.65	56.57	-	-	P	H
		17595	49.76	-18.44	68.2	39.42	41.66	24.15	55.47	-	-	P	H
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		11730	45.19	-28.81	74	43.47	38.64	19.65	56.57	-	-	P	V
		17595	50.32	-17.88	68.2	39.98	41.66	24.15	55.47	-	-	P	V
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WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 177 5885MHz		11770	46.49	-27.51	74	44.71	38.6	19.68	56.5	-	-	P	H
		17655	50.16	-18.04	68.2	39.68	41.7	24.19	55.41	-	-	P	H
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		11770	45.84	-28.16	74	44.06	38.6	19.68	56.5	-	-	P	V
		17655	50.3	-17.9	68.2	39.82	41.7	24.19	55.41	-	-	P	V
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Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



UNII 4 - 5850~5895MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 177 5885MHz		5605.9	49.47	-18.73	68.2	36.62	34.74	12.79	34.68	400	250	P	H
		5697.94	48.98	-54.7	103.68	35.6	35.19	12.92	34.73	400	250	P	H
		5713.87	47.68	-61.41	109.09	34.27	35.2	12.95	34.74	400	250	P	H
		5725.08	47.13	-87.07	134.2	33.72	35.2	12.96	34.75	400	250	P	H
	*	5885	91.91	-	-	78.54	35.07	13.14	34.84	400	250	P	H
	*	5885	87.28	-	-	73.91	35.07	13.14	34.84	400	250	A	H
		5895	70.3	-39.9	110.2	56.9	35.09	13.15	34.84	400	250	P	H
		5930.5	51.78	-36.42	88.2	38.43	35.04	13.17	34.86	400	250	P	H
		5895	62.43	-27.77	90.2	49.03	35.09	13.15	34.84	400	250	A	H
		5928.75	41.52	-26.68	68.2	28.17	35.04	13.17	34.86	400	250	A	H
		5602.655	49.55	-18.65	68.2	36.73	34.72	12.78	34.68	301	216	P	V
		5661.36	50.08	-26.55	76.63	36.87	35.05	12.87	34.71	301	216	P	V
		5707.085	48.48	-58.71	107.19	35.08	35.2	12.94	34.74	301	216	P	V
		5723.31	46.52	-71.83	118.35	33.11	35.2	12.96	34.75	301	216	P	V
	*	5885	95.72	-	-	82.35	35.07	13.14	34.84	301	216	P	V
	*	5885	90.79	-	-	77.42	35.07	13.14	34.84	301	216	A	V
		5895	76.9	-33.3	110.2	63.5	35.09	13.15	34.84	301	216	P	V
		5968.25	51.9	-36.3	88.2	38.51	35.07	13.2	34.88	301	216	P	V
		5895	66.14	-24.06	90.2	52.74	35.09	13.15	34.84	301	216	A	V
		5925.75	41.61	-26.59	68.2	28.25	35.05	13.17	34.86	301	216	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 4 - 5850~5895MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 177 5885MHz		11770	45.94	-28.06	74	44.16	38.6	19.68	56.5	-	-	P	H
		17655	50.36	-17.84	68.2	39.88	41.7	24.19	55.41	-	-	P	H
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UNII 4 - 5850~5895MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 169 5845MHz		5625.37	49.31	-18.89	68.2	36.33	34.85	12.82	34.69	400	265	P	H
		5697.94	49.04	-54.64	103.68	35.66	35.19	12.92	34.73	400	265	P	H
		5708.265	49.13	-58.39	107.52	35.73	35.2	12.94	34.74	400	265	P	H
		5722.72	48.7	-68.3	117	35.28	35.2	12.96	34.74	400	265	P	H
	*	5845	97.37	-	-	84.05	35.02	13.11	34.81	400	265	P	H
	*	5845	88.1	-	-	74.78	35.02	13.11	34.81	400	265	A	H
		5923	49.86	-39.8	89.66	36.5	35.05	13.17	34.86	400	265	P	H
		5940	50.83	-37.37	88.2	37.5	35.02	13.18	34.87	400	265	P	H
		5920.75	41.51	-29.8	71.31	28.14	35.06	13.17	34.86	400	265	A	H
		5958.75	41.51	-26.69	68.2	28.16	35.03	13.2	34.88	400	265	A	H
		5605.9	49.02	-19.18	68.2	36.17	34.74	12.79	34.68	276	217	P	V
		5694.695	49.08	-52.21	101.29	35.71	35.18	12.92	34.73	276	217	P	V
		5708.56	48.35	-59.25	107.6	34.95	35.2	12.94	34.74	276	217	P	V
		5725.08	47.66	-86.54	134.2	34.25	35.2	12.96	34.75	276	217	P	V
	*	5845	99.61	-	-	86.29	35.02	13.11	34.81	276	217	P	V
	*	5845	91.97	-	-	78.65	35.02	13.11	34.81	276	217	A	V
		5919.25	50.65	-41.76	92.41	37.27	35.06	13.17	34.85	276	217	P	V
		5934.25	50.9	-37.3	88.2	37.55	35.03	13.18	34.86	276	217	P	V
		5922.5	41.59	-28.44	70.03	28.22	35.06	13.17	34.86	276	217	A	V
		5926	41.55	-26.65	68.2	28.19	35.05	13.17	34.86	276	217	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 173 5865MHz		5610.325	48.53	-19.67	68.2	35.66	34.76	12.79	34.68	400	264	P	H
		5667.26	49.87	-31.14	81.01	36.63	35.07	12.88	34.71	400	264	P	H
		5710.33	48.42	-59.67	108.09	35.02	35.2	12.94	34.74	400	264	P	H
		5723.605	48.86	-70.16	119.02	35.45	35.2	12.96	34.75	400	264	P	H
	*	5865	95.63	-	-	82.3	35.03	13.12	34.82	400	264	P	H
	*	5865	87.72	-	-	74.39	35.03	13.12	34.82	400	264	A	H
		5897.5	50.75	-57.61	108.36	37.35	35.09	13.15	34.84	400	264	P	H
		5980.5	50.58	-37.62	88.2	37.14	35.12	13.21	34.89	400	264	P	H
		5915.5	41.51	-33.64	75.15	28.13	35.07	13.16	34.85	400	264	A	H
		5935.75	41.51	-26.69	68.2	28.16	35.03	13.18	34.86	400	264	A	H
		5617.995	48.53	-19.67	68.2	35.6	34.81	12.81	34.69	290	215	P	V
		5657.525	49.11	-24.68	73.79	35.93	35.03	12.86	34.71	290	215	P	V
		5715.345	49.47	-60.03	109.5	36.06	35.2	12.95	34.74	290	215	P	V
		5720.95	48.17	-64.8	112.97	34.75	35.2	12.96	34.74	290	215	P	V
	*	5865	99.63	-	-	86.3	35.03	13.12	34.82	290	215	P	V
	*	5865	91.14	-	-	77.81	35.03	13.12	34.82	290	215	A	V
		5907	51.5	-49.89	101.39	38.1	35.09	13.16	34.85	290	215	P	V
		5992.75	49.96	-38.24	88.2	36.47	35.17	13.22	34.9	290	215	P	V
		5896	41.86	-47.6	89.46	28.46	35.09	13.15	34.84	290	215	A	V
		5927.5	41.61	-26.59	68.2	28.26	35.04	13.17	34.86	290	215	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 177 5885MHz		5634.81	49.19	-19.01	68.2	36.15	34.91	12.83	34.7	400	250	P	H
		5677.585	48.54	-40.11	88.65	35.26	35.11	12.89	34.72	400	250	P	H
		5705.61	48.23	-58.54	106.77	34.84	35.2	12.93	34.74	400	250	P	H
		5722.13	46.94	-68.72	115.66	33.52	35.2	12.96	34.74	400	250	P	H
	*	5885	95.03	-	-	81.66	35.07	13.14	34.84	400	250	P	H
	*	5885	87.71	-	-	74.34	35.07	13.14	34.84	400	250	A	H
		5895	76.74	-33.46	110.2	63.34	35.09	13.15	34.84	400	250	P	H
		5948.75	51.13	-37.07	88.2	37.81	35	13.19	34.87	400	250	P	H
		5895	74.59	-15.61	90.2	61.19	35.09	13.15	34.84	400	250	A	H
		5929.75	41.55	-26.65	68.2	28.2	35.04	13.17	34.86	400	250	A	H
		5631.27	48.41	-19.79	68.2	35.38	34.89	12.83	34.69	287	218	P	V
		5685.845	48.46	-46.3	94.76	35.14	35.14	12.9	34.72	287	218	P	V
		5708.56	48.21	-59.39	107.6	34.81	35.2	12.94	34.74	287	218	P	V
		5722.72	46.87	-70.13	117	33.45	35.2	12.96	34.74	287	218	P	V
	*	5885	98.29	-	-	84.92	35.07	13.14	34.84	287	218	P	V
	*	5885	91.1	-	-	77.73	35.07	13.14	34.84	287	218	A	V
		5895	80.49	-29.71	110.2	67.09	35.09	13.15	34.84	287	218	P	V
		5998	50.49	-37.71	88.2	36.97	35.19	13.23	34.9	287	218	P	V
		5895	78.09	-12.11	90.2	64.69	35.09	13.15	34.84	287	218	A	V
		5925.75	41.64	-26.56	68.2	28.28	35.05	13.17	34.86	287	218	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 4 - 5850~5895MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

[illegible]



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 173 5885MHz		11730	45.96	-28.04	74	44.24	38.64	19.65	56.57	-	-	P	H
		17595	50.03	-18.17	68.2	39.69	41.66	24.15	55.47	-	-	P	H
													H
													H
													H
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													H
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													H
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													H
													H
													H
		11730	45.42	-28.58	74	43.7	38.64	19.65	56.57	-	-	P	V
		17595	49.73	-18.47	68.2	39.39	41.66	24.15	55.47	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 177 5885MHz		11770	46.21	-27.79	74	44.43	38.6	19.68	56.5	-	-	P	H
		17655	50.04	-18.16	68.2	39.56	41.7	24.19	55.41	-	-	P	H
													H
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		11770	46.13	-27.87	74	44.35	38.6	19.68	56.5	-	-	P	V
		17655	50.56	-17.64	68.2	40.08	41.7	24.19	55.41	-	-	P	V
													V
													V
													V
													V
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													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



UNII 4 - 5850~5895MHz

WIFI 802.11ax HE20_Partial 106 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 106/54 CH 177 5885MHz		5617.995	49.17	-19.03	68.2	36.24	34.81	12.81	34.69	400	236	P	H
		5698.825	49.02	-55.31	104.33	35.63	35.2	12.92	34.73	400	236	P	H
		5711.51	49.44	-58.99	108.43	36.04	35.2	12.94	34.74	400	236	P	H
		5724.785	48.78	-72.93	121.71	35.37	35.2	12.96	34.75	400	236	P	H
	*	5885	98.45	-	-	85.08	35.07	13.14	34.84	400	236	P	H
	*	5885	91.77	-	-	78.4	35.07	13.14	34.84	400	236	A	H
		5895	83.54	-26.66	110.2	70.14	35.09	13.15	34.84	400	236	P	H
		5946	50.97	-37.23	88.2	37.64	35.01	13.19	34.87	400	236	P	H
		5895	79.45	-10.75	90.2	66.05	35.09	13.15	34.84	400	236	A	H
		5928	41.95	-26.25	68.2	28.6	35.04	13.17	34.86	400	236	A	H
		5628.32	49.1	-19.1	68.2	36.1	34.87	12.82	34.69	271	217	P	V
		5665.785	49.5	-30.42	79.92	36.27	35.06	12.88	34.71	271	217	P	V
		5700.005	48.99	-56.21	105.2	35.59	35.2	12.93	34.73	271	217	P	V
		5723.605	48.24	-70.78	119.02	34.83	35.2	12.96	34.75	271	217	P	V
	*	5885	105.42	-	-	92.05	35.07	13.14	34.84	271	217	P	V
	*	5885	96.04	-	-	82.67	35.07	13.14	34.84	271	217	A	V
		5895	88.61	-21.59	110.2	75.21	35.09	13.15	34.84	271	217	P	V
		5938.25	52.01	-36.19	88.2	38.68	35.02	13.18	34.87	271	217	P	V
		5895	83.59	-6.61	90.2	70.19	35.09	13.15	34.84	271	217	A	V
		5928.5	42.08	-26.12	68.2	28.73	35.04	13.17	34.86	271	217	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII 4 - 5850~5895MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 167 5835MHz		5633.925	50.16	-18.04	68.2	37.12	34.9	12.83	34.69	400	265	P	H
		5664.9	49.31	-29.95	79.26	36.09	35.06	12.87	34.71	400	265	P	H
		5719.77	48.92	-61.82	110.74	35.51	35.2	12.95	34.74	400	265	P	H
		5724.195	49.45	-70.91	120.36	36.04	35.2	12.96	34.75	400	265	P	H
	*	5835	93.75	-	-	80.4	35.06	13.1	34.81	400	265	P	H
	*	5835	85.15	-	-	71.8	35.06	13.1	34.81	400	265	A	H
		5916	50.58	-44.21	94.79	37.2	35.07	13.16	34.85	400	265	P	H
		5931.75	50.47	-37.73	88.2	37.11	35.04	13.18	34.86	400	265	P	H
		5898	43.06	-44.93	87.99	29.65	35.1	13.15	34.84	400	265	A	H
		5927.75	43.21	-24.99	68.2	29.86	35.04	13.17	34.86	400	265	A	H
		5649.56	48.74	-19.46	68.2	35.59	35	12.85	34.7	278	217	P	V
		5670.21	49.92	-33.27	83.19	36.68	35.08	12.88	34.72	278	217	P	V
		5707.085	48.76	-58.43	107.19	35.36	35.2	12.94	34.74	278	217	P	V
		5721.245	47.97	-65.67	113.64	34.55	35.2	12.96	34.74	278	217	P	V
	*	5835	97.72	-	-	84.37	35.06	13.1	34.81	278	217	P	V
	*	5835	89.71	-	-	76.36	35.06	13.1	34.81	278	217	A	V
		5902.75	51.47	-53.04	104.51	38.08	35.09	13.15	34.85	278	217	P	V
		5992.25	50.96	-37.24	88.2	37.47	35.17	13.22	34.9	278	217	P	V
		5896.5	43.29	-45.81	89.1	29.89	35.09	13.15	34.84	278	217	A	V
		5933	43.23	-24.97	68.2	29.88	35.03	13.18	34.86	278	217	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 175 5875MHz		5648.675	50	-18.2	68.2	36.86	34.99	12.85	34.7	400	251	P	H
		5650.74	49.02	-19.73	68.75	35.87	35	12.85	34.7	400	251	P	H
		5705.905	48.47	-58.39	106.86	35.08	35.2	12.93	34.74	400	251	P	H
		5722.72	48.56	-68.44	117	35.14	35.2	12.96	34.74	400	251	P	H
	*	5875	95.13	-	-	81.78	35.05	13.13	34.83	400	251	P	H
	*	5875	85.31	-	-	71.96	35.05	13.13	34.83	400	251	A	H
		5895	69.59	-40.61	110.2	56.19	35.09	13.15	34.84	400	251	P	H
		5972	51.07	-37.13	88.2	37.65	35.09	13.21	34.88	400	251	P	H
		5895	60.79	-29.41	90.2	47.39	35.09	13.15	34.84	400	251	A	H
		5926.25	43	-25.2	68.2	29.64	35.05	13.17	34.86	400	251	A	H
		5635.105	50.03	-18.17	68.2	36.99	34.91	12.83	34.7	261	216	P	V
		5687.91	49.65	-46.63	96.28	36.32	35.15	12.91	34.73	261	216	P	V
		5711.805	50.25	-58.26	108.51	36.85	35.2	12.94	34.74	261	216	P	V
		5720.065	48.06	-62.89	110.95	34.65	35.2	12.95	34.74	261	216	P	V
	*	5875	94.08	-	-	80.73	35.05	13.13	34.83	261	216	P	V
	*	5875	88.62	-	-	75.27	35.05	13.13	34.83	261	216	A	V
		5895	70.42	-39.78	110.2	57.02	35.09	13.15	34.84	261	216	P	V
		5961	51.63	-36.57	88.2	38.27	35.04	13.2	34.88	261	216	P	V
		5895	63.91	-26.29	90.2	50.51	35.09	13.15	34.84	261	216	A	V
		5927.25	43.31	-24.89	68.2	29.95	35.05	13.17	34.86	261	216	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 4 - 5850~5895MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

[illegible]

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 175 5875MHz		11750	45.97	-28.03	74	44.23	38.6	19.67	56.53	-	-	P	H
		17625	50.24	-17.96	68.2	39.81	41.7	24.17	55.44	-	-	P	H
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													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



UNII 4 - 5850~5895MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 171 5855MHz		5629.5	49.22	-18.98	68.2	36.21	34.88	12.82	34.69	400	265	P	H
		5654.28	49.5	-21.88	71.38	36.33	35.02	12.86	34.71	400	265	P	H
		5712.395	48.91	-59.76	108.67	35.51	35.2	12.94	34.74	400	265	P	H
		5725.08	48.64	-85.56	134.2	35.23	35.2	12.96	34.75	400	265	P	H
	*	5855	90.56	-	-	77.26	35.01	13.11	34.82	400	265	P	H
	*	5855	82.37	-	-	69.07	35.01	13.11	34.82	400	265	A	H
		5895	58.37	-51.83	110.2	44.97	35.09	13.15	34.84	400	265	P	H
		5994	51.15	-37.05	88.2	37.64	35.18	13.23	34.9	400	265	P	H
		5895	54.57	-35.63	90.2	41.17	35.09	13.15	34.84	400	265	A	H
		5932.25	43.72	-24.48	68.2	30.36	35.04	13.18	34.86	400	265	A	H
		5646.315	48.64	-19.56	68.2	35.51	34.98	12.85	34.7	277	217	P	V
		5679.355	49.45	-40.51	89.96	36.15	35.12	12.9	34.72	277	217	P	V
		5711.805	49.3	-59.21	108.51	35.9	35.2	12.94	34.74	277	217	P	V
		5722.425	49.31	-67.02	116.33	35.89	35.2	12.96	34.74	277	217	P	V
	*	5855	93.71	-	-	80.41	35.01	13.11	34.82	277	217	P	V
	*	5855	86.6	-	-	73.3	35.01	13.11	34.82	277	217	A	V
		5895	62.02	-48.18	110.2	48.62	35.09	13.15	34.84	277	217	P	V
		5934.75	53.84	-34.36	88.2	40.49	35.03	13.18	34.86	277	217	P	V
		5895	61.74	-28.46	90.2	48.34	35.09	13.15	34.84	277	217	A	V
		5926.75	46.53	-21.67	68.2	33.17	35.05	13.17	34.86	277	217	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII 4 - 5850~5895MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

[illegible]

Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF @ 3m)

[illegible]



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin limit line.
P/A	Peak or Av
H/V	H orizontal or V ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+4		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5945	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 169		5945	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
5845MHz													

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5945MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Margin Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 5945MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Margin Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

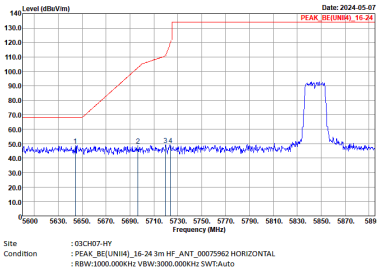
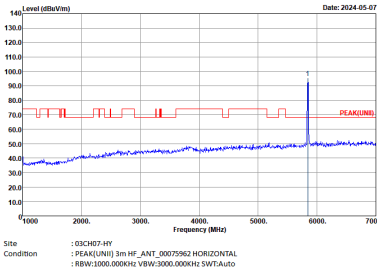
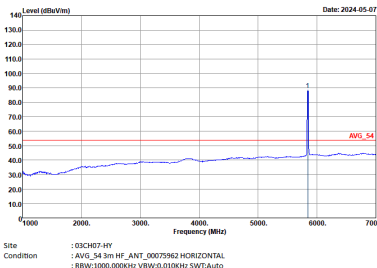
Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	22.1~26°C
		Relative Humidity :	48.2~69.5%

Note symbol

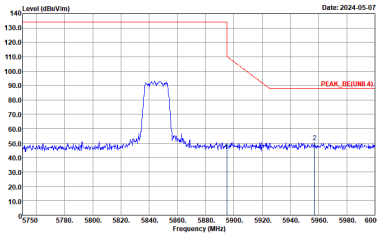
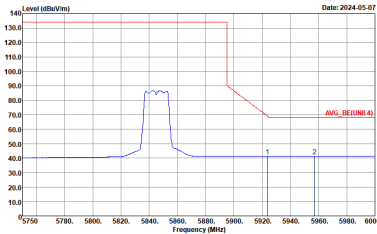
-L	Low channel location
-R	High channel location



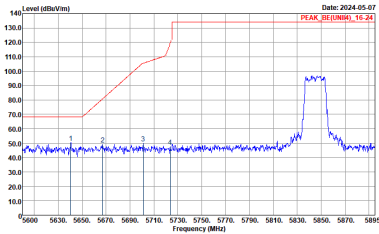
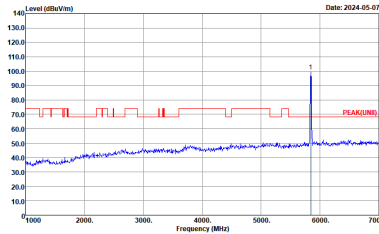
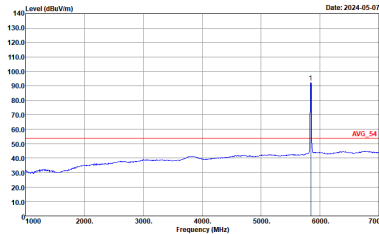
UNII 4 - 5850~5895MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11a_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto

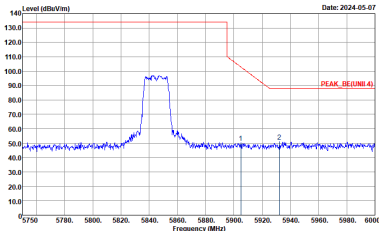
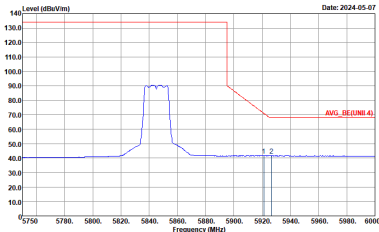


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_80211a_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_UNII 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

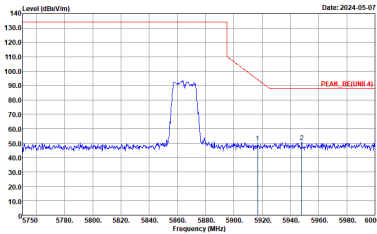
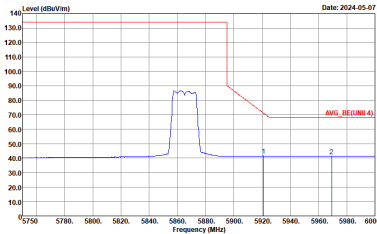


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

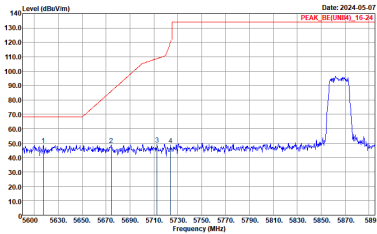
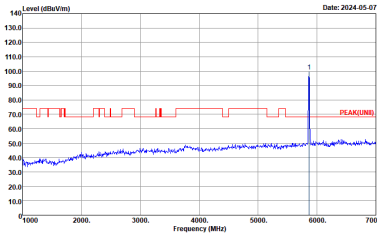
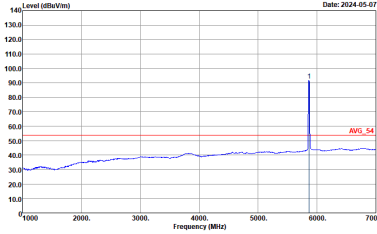


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz -L	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_REF (UNII) 15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Site : 03CH07-HY Condition : PEAK (UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

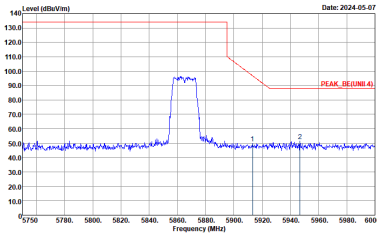
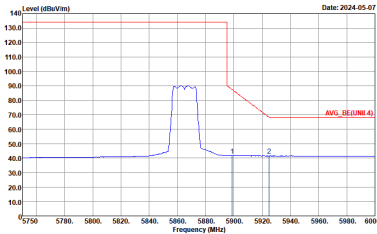


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

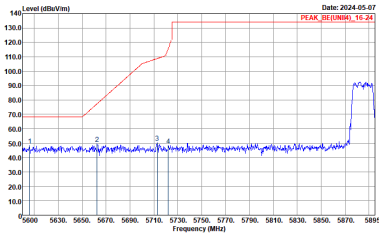
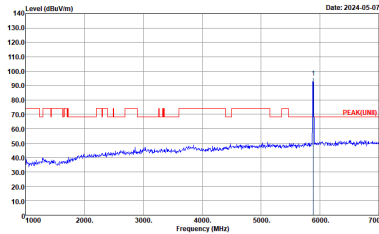
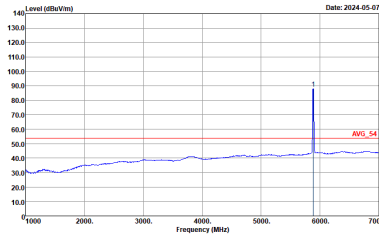


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

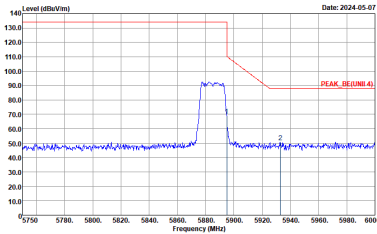
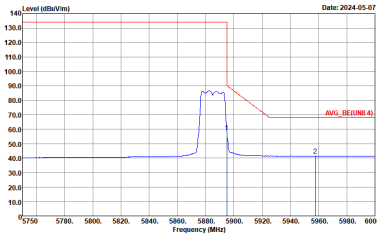


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

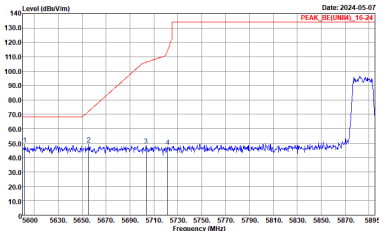
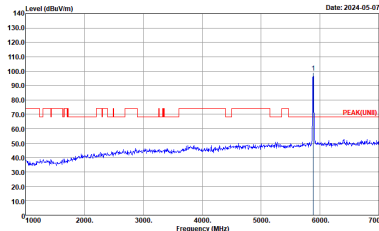
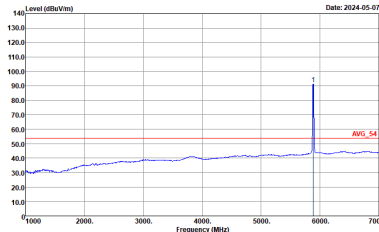


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

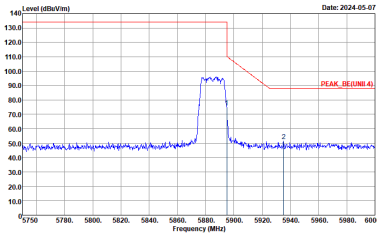
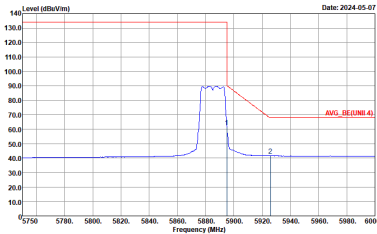


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWT:Auto

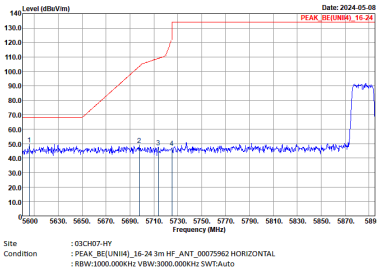
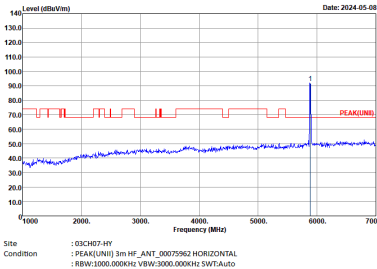
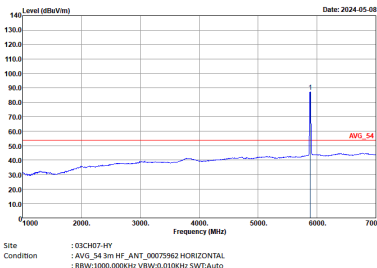


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWTAuto	Left blank

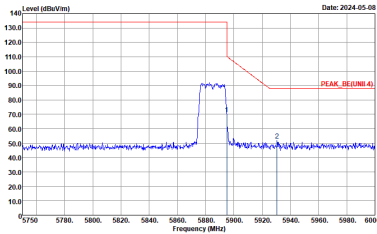
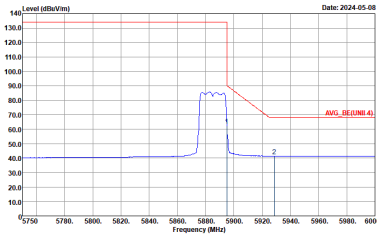


UNII 4 - 5850~5895MHz

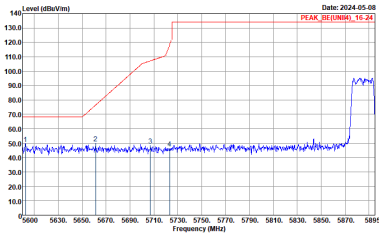
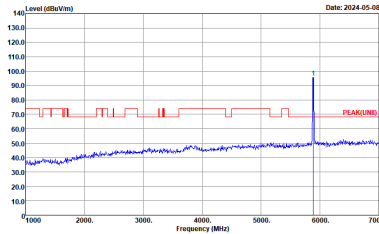
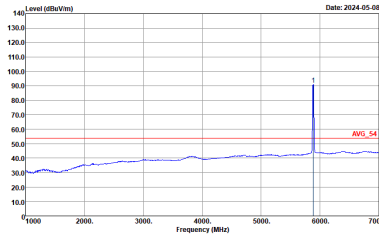
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH177 5885MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11ac VHT20 CH177 5885MHz -L : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_802.11ac VHT20 CH177 5885MHz -L : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_802.11ac VHT20 CH177 5885MHz -L : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

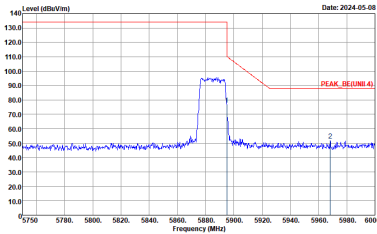
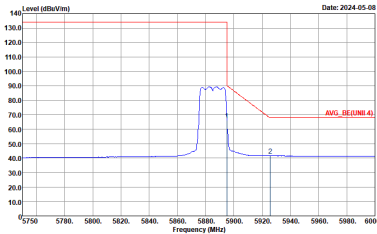


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH177 5885MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



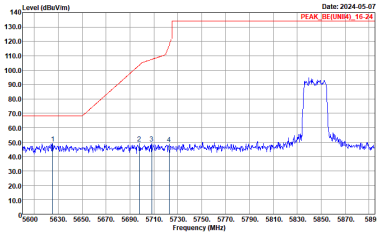
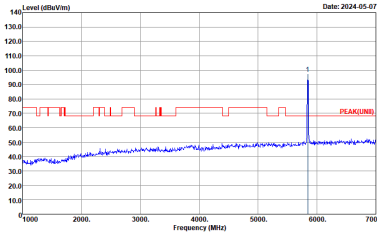
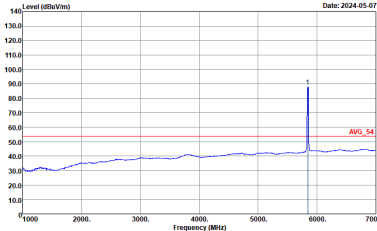
WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH177 5885MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(UNII)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto



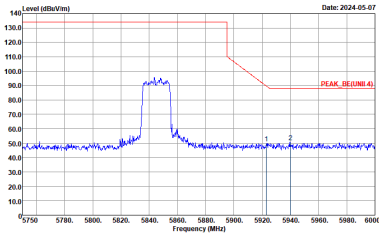
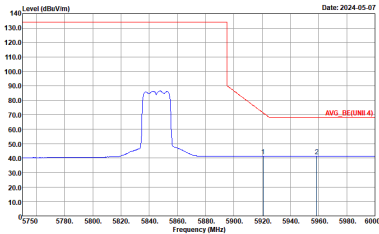
WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH177 5885MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank



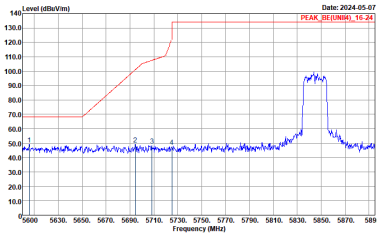
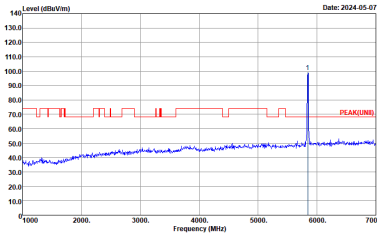
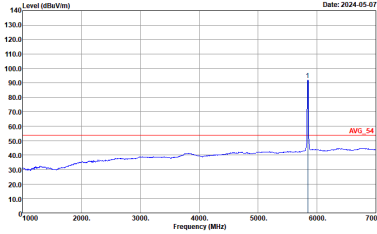
UNII 4 - 5850~5895MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE[UNII4]_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK[UNII] 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3000.000kHz SWTAuto

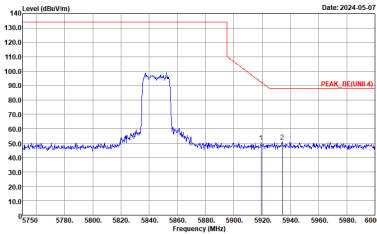
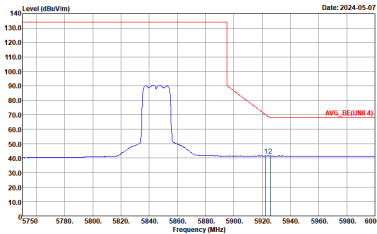


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

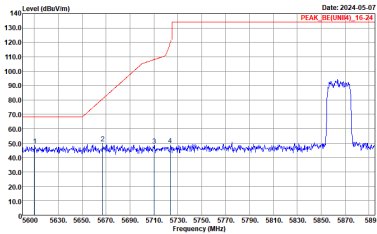
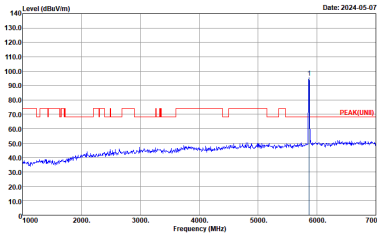
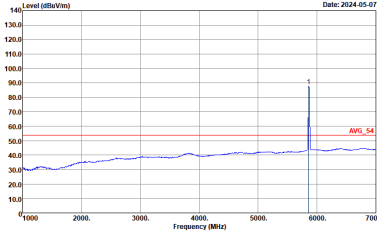


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_REF(UNII)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

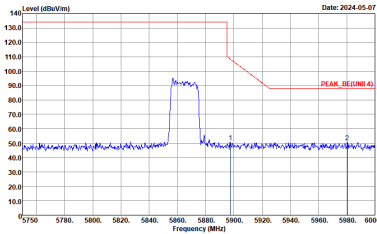
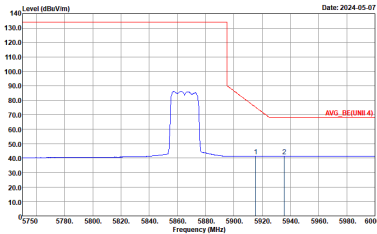


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

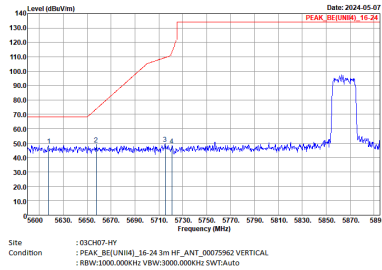
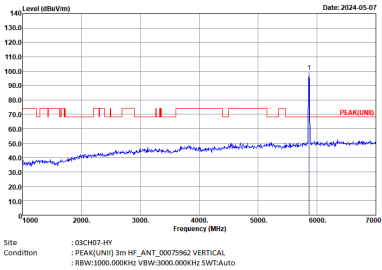
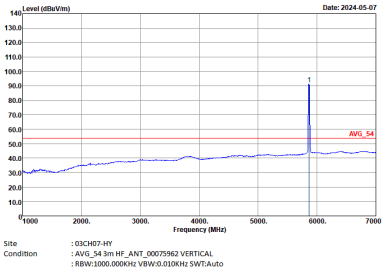


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(UNII)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

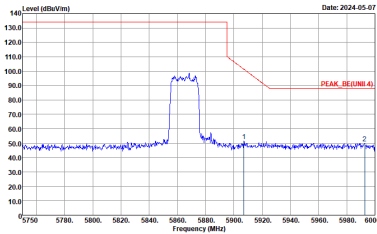
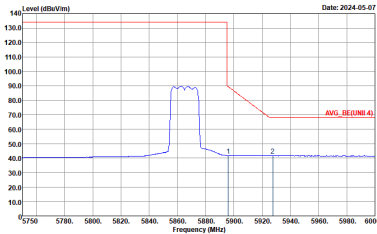


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

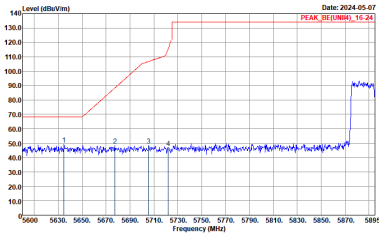
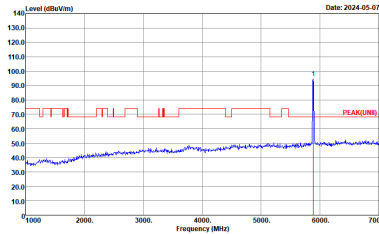
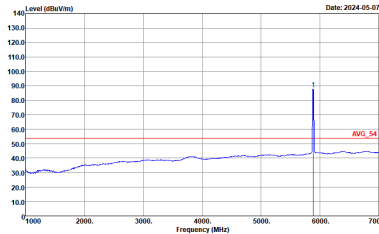


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz -L	
1	Vertical	Fundamental
Peak		
Avg	Left blank	

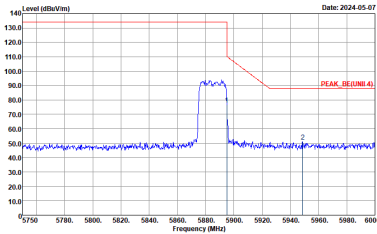
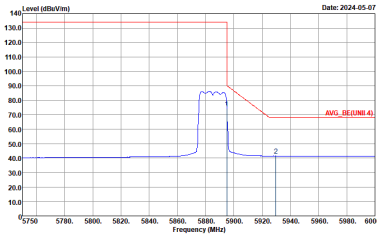


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:5.000kHz SWT:Auto	Left blank

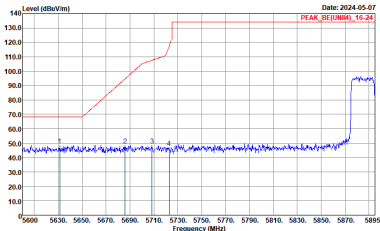
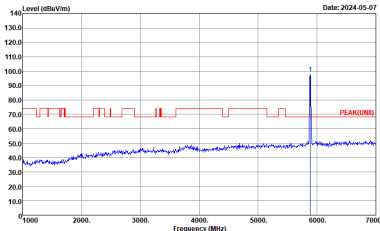
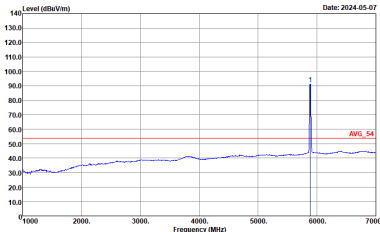


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

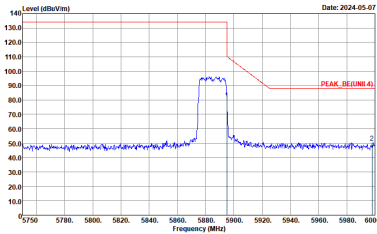
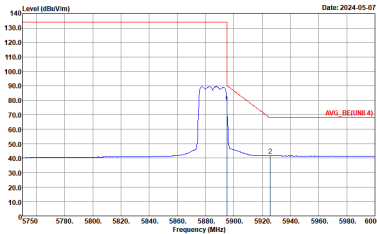


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



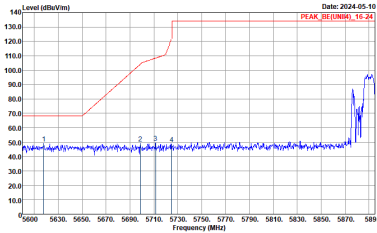
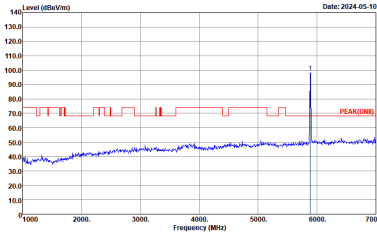
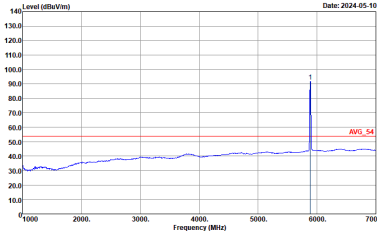
WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto



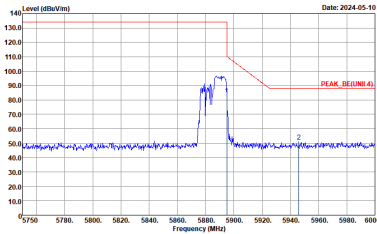
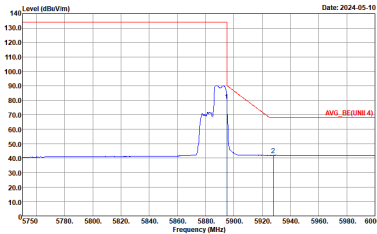
WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



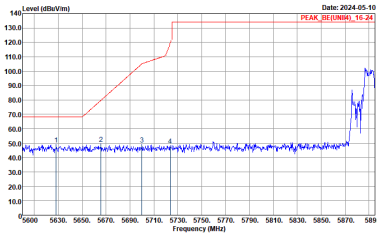
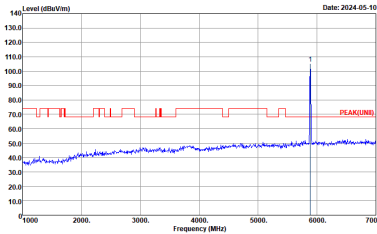
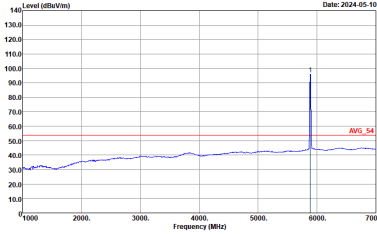
UNII 4 - 5850~5895MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH177 5885MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWTAuto

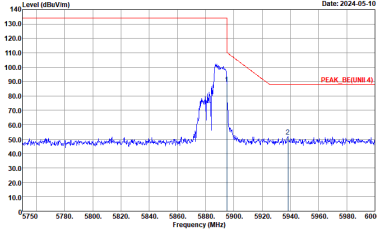
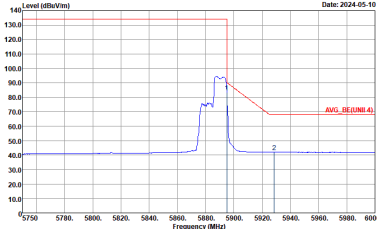


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH177 5885MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

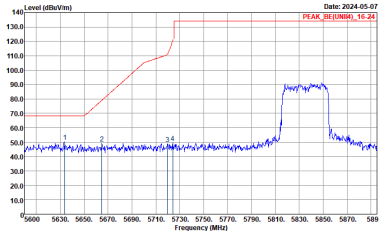
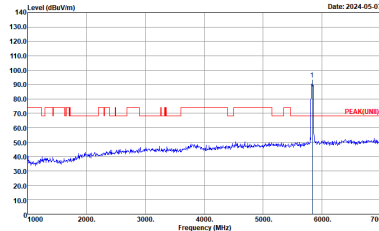
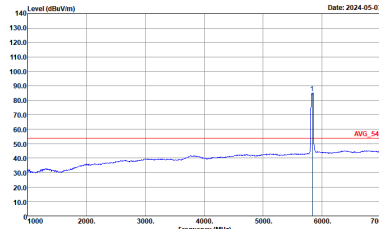


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH177 5885MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(UNII)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.030kHz SWTAuto

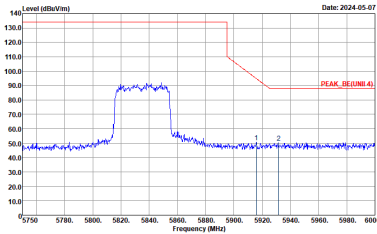
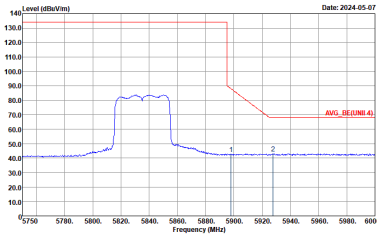


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH177 5885MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:5.000kHz SWTAuto	Left blank

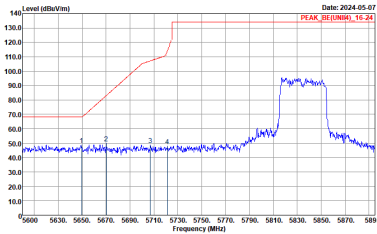
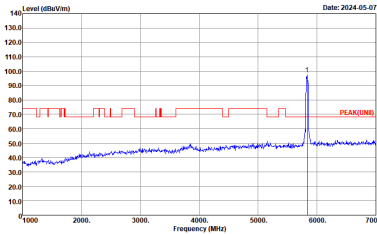
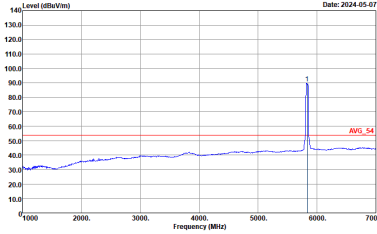
UNII 4 - 5850~5895MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII4)_1E-24 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWTAuto



WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto	Left blank

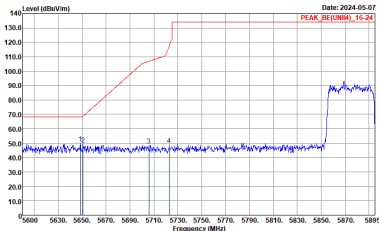
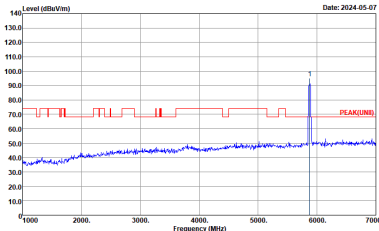
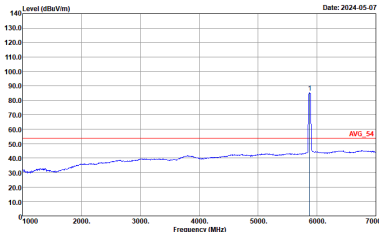


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(UNII)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.000kHz SWTAuto



WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz -R	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank
Avg	Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.000kHz SWTAuto	Left blank

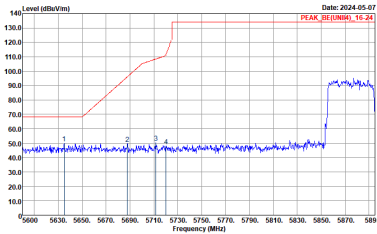
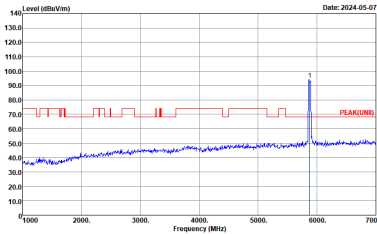
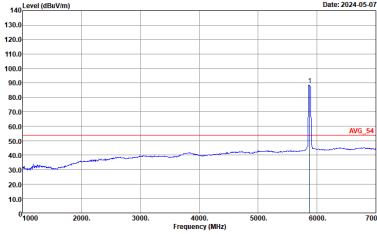


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz -L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWTAuto

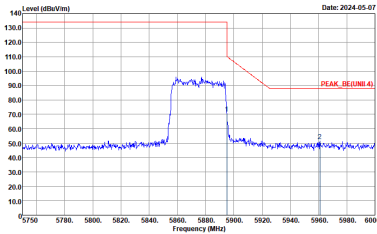
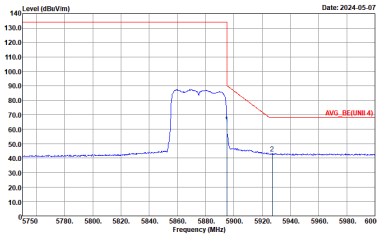


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz -R	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto	Left blank



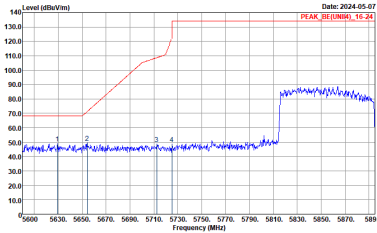
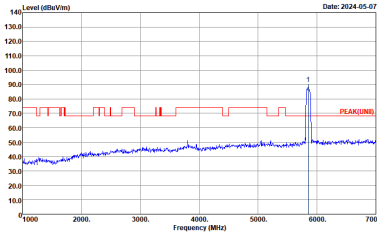
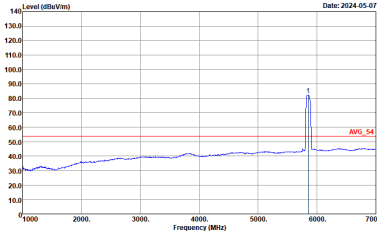
WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_5875MHz_15-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_5875MHz_15-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : AVG_5875MHz_15-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto



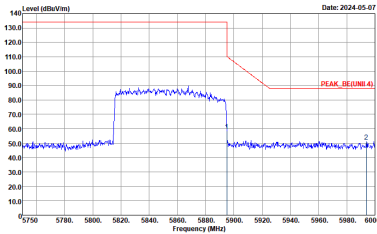
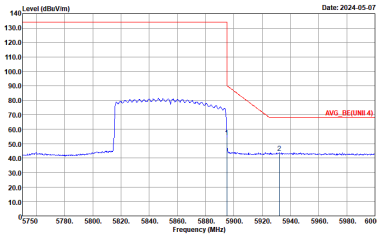
WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWTAuto	Left blank



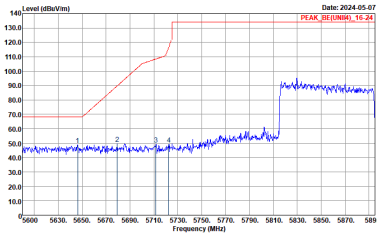
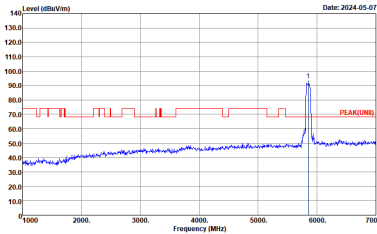
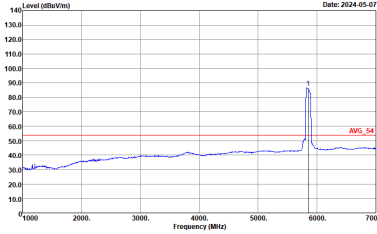
UNII 4 - 5850~5895MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz -L	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH07-HY : PEAK_BE(UNII4)_1E-24 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3000.000kHz SWTAuto	 Site Condition : 03CH07-HY : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site Condition : 03CH07-HY : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:3000.000kHz VBW:3.600kHz SWTAuto

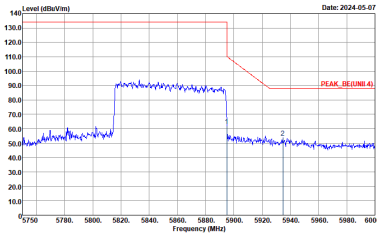
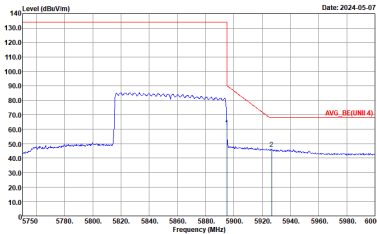


WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz -R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg	 Site : 03CH07-HY Condition : AVG_BE(UNII 4) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto	Left blank



WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz -L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_REF(UNII)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.000kHz SWTAuto



WIFI	UNII 4 - 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz -R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank
Avg	 Site : 03CH07-HY Condition : : AVG_BE(UNII 4) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.000kHz SWTAuto	Left blank



UNII 4 - 5850~5895MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH169 5845MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL



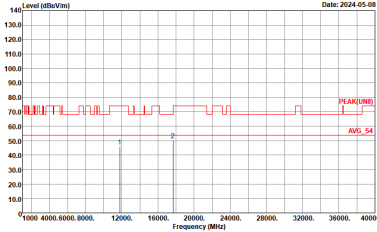
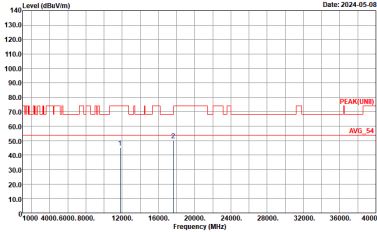
WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH173 5865MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 09CH07-HY Condition : PEAK[UNII] 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	Site : 09CH07-HY Condition : PEAK[UNII] 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH177 5885MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 09CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL	Site : 09CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL

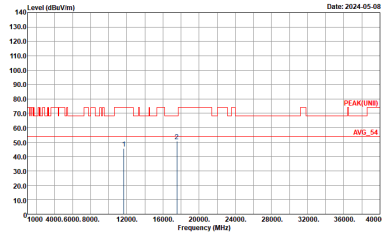
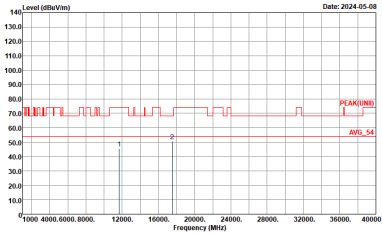


UNII 4 - 5850~5895MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH177 5885MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



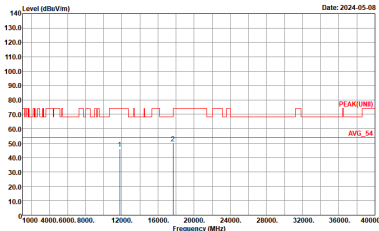
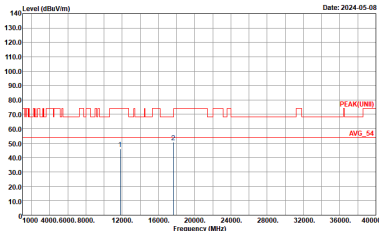
UNII 4 - 5850~5895MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL



WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 09CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 HORIZONTAL - - - - -	Site : 09CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL - - - - -



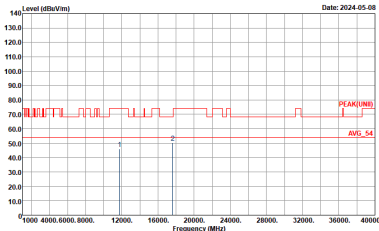
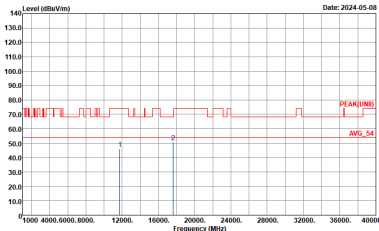
WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 09CH07-HY Condition : PEAK[UNII] 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 09CH07-HY Condition : PEAK[UNII] 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



UNII 4 - 5850~5895MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

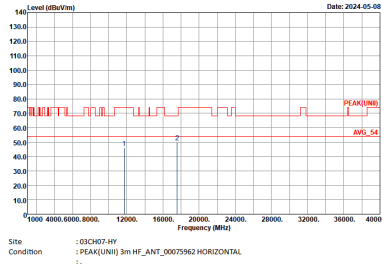
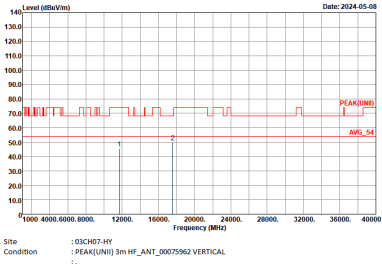
WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL	Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL



WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 09CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL - - - - - - - - - -	 Site : 09CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL - - - - - - - - - -



UNII 4 - 5850~5895MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	UNII 4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Date: 2024-05-08	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Date: 2024-05-08

Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full LF	
1	Horizontal	Vertical
QP / Peak	Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(s) HORIZONTAL	Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(s) VERTICAL

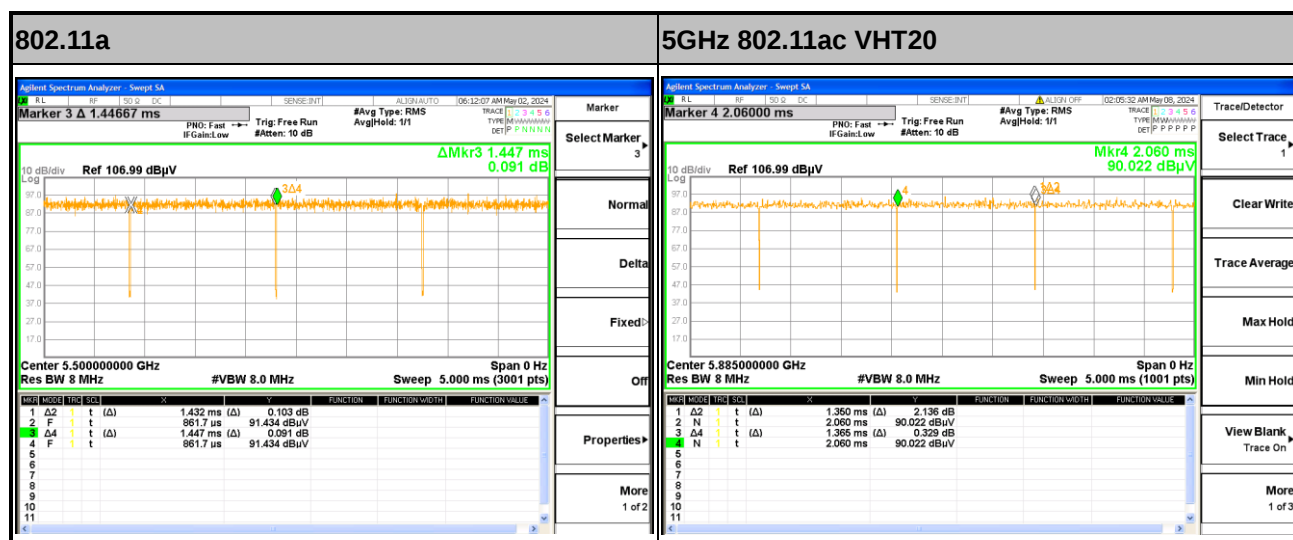


Appendix E. Duty Cycle Plots

<For Radiated Spurious Emission test>

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	98.96	-	-	10Hz
1	5GHz 802.11ac VHT20	98.90	-	-	10Hz
1	5GHz 802.11ax HE20 Full RU	98.58	-	-	10Hz
1	5GHz 802.11ax HE20 106 RU	99.05	-	-	10Hz
1	5GHz 802.11ax HE40 Full RU	97.35	552	1.81	3kHz
1	5GHz 802.11ax HE80 Full RU	94.82	292.7	3.42	3.6kHz

<Ant. 1>

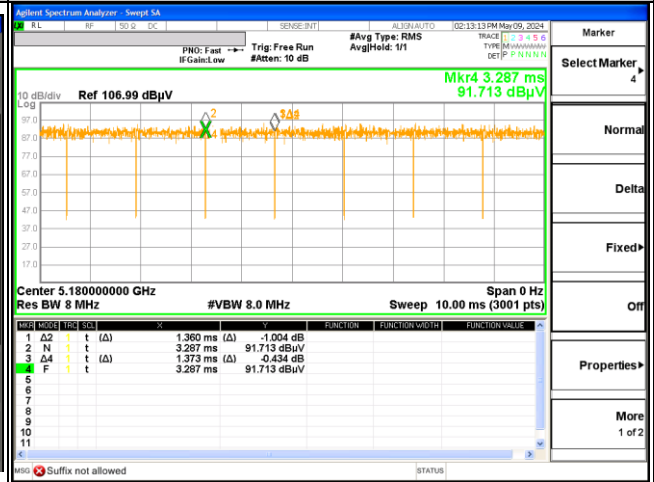




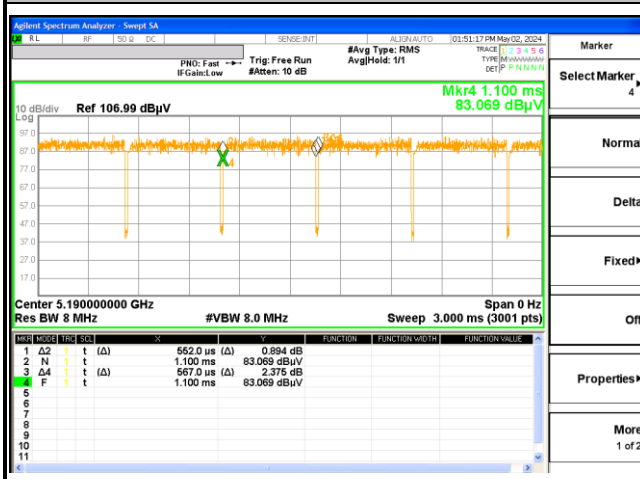
5GHz 802.11ax HE20 Full RU



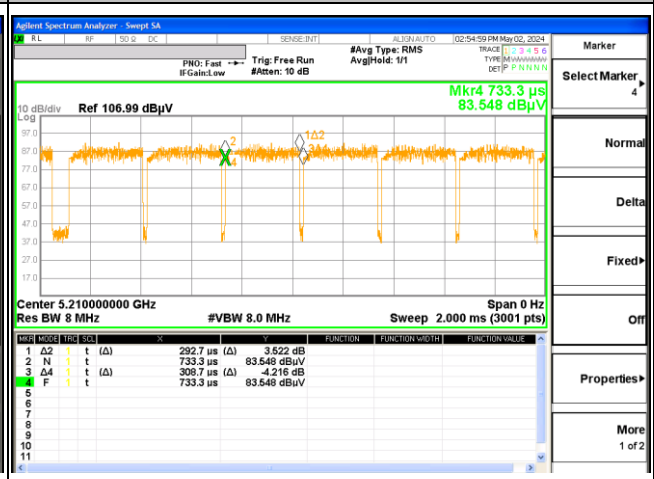
5GHz 802.11ax HE20 106 RU



5GHz 802.11ax HE40 Full RU



5GHz 802.11ax HE80 Full RU



<For Conducted test>

Antenna	Band	Duty Cycle(%)	T(us)	Duty Factor(dB)
1	802.11a	98.96	-	0.05
1	5GHz 802.11ac VHT20	98.90	-	0.05
1	5GHz 802.11ax HE20 Full RU	98.58	-	0.06
1	5GHz 802.11ax HE20 106 RU	98.91	-	0.05
1	5GHz 802.11ax HE40 Full RU	97.17	550	0.12
1	5GHz 802.11ax HE80 Full RU	94.84	294	0.23

<Ant. 1>
