

CERTIFICATION TEST REPORT

Report Number. : U-4791847144-FR3V3

Applicant : Mcube Technology Co., Ltd.
39, Magokjungang 12-ro, Gangseo-gu, Seoul, 07789, Republic
Of Korea

Model : BioCon-V

FCC ID : 2AGCZ-BIOCONV

IC : 20981-BIOCONV

EUT Description : BioCon-V Probe

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
INDUSTRY CANADA RSS-247 Issue 4
INDUSTRY CANADA RSS-GEN Issue 5

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2026-03-25	Initial issue	Jaehyeok Bang
V2	2026-04-28	Updated issue version for RSS-247	Jaehyeok Bang
V3	2026-05-13	Updated to address TCB's question	Jaehyeok Bang

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Mcube Technology Co., Ltd.
39, Magokjungang 12-ro, Ganseo-gu, Seoul, 07789, Republic of Korea

EUT DESCRIPTION: BioCon-V Probe

MODEL NUMBER: BioCon-V

SERIAL NUMBER: BCV_PR_TEST 07 (CONDUCTED); BCV_PR_TEST 02(RADIATED);

DATE TESTED: 2025-12-19 ~ 2026-03-24

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
INDUSTRY CANADA RSS-247 Issue 4	Pass
INDUSTRY CANADA RSS-GEN Issue 5	Pass

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:



Changmin Kim
Senior Laboratory Engineer
UL Korea, Ltd.

Tested By:



Jaehyeok Bang
Laboratory Test Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. KDB 789033 D02 General UNII Test Procedures New Rules v02r01
4. IC RSS-GEN Issue 5.
5. IC RSS-247 Issue 4.
6. ANSI C63.10-2020.(FCC)
7. ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024. (ISED)

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 42, Obongsandan 1-ro, Uiwang-si, Gyeonggi-do, Republic of Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

42, Obongsandan 1-ro	
☒	Chamber 1
☐	Chamber 2

Used ISED Test Site Reg.(company number): 32001
CAB Identifier: KR0161

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-1087. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2022/05/TL-1087-Cert-New.pdf>

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

$$\begin{aligned} \text{AC Corrected Reading (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{Extension Cord} \\ &\text{Loss (dB)} + \text{Cable Loss (dB)} \\ 44.72 \text{ dBuV} &= 34.72 \text{ dBuV} + 9.9 \text{ dB} + 0.1 \text{ dB} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

Common Items

PARAMETER	UNCERTAINTY
RF Output Power	0.94 dB
Power Spectral Density	0.83 dB
Occupied Bandwidth	0.06 %

Uncertainty figures are valid to a confidence level of 95%, k=2

Chamber 1

PARAMETER	UNCERTAINTY
Radiated Disturbance, 9 kHz to 30 MHz	1.92 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.74 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.43 dB
Radiated Disturbance, Above 18 GHz	6.22 dB

Uncertainty figures are valid to a confidence level of 95%, k=

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.3.3 in IEC Guide 115:2023. Measurement Uncertainty is not applied when providing statements of conformity in accordance with IEC Guide 115:2023, 4.3.3

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

BioCon-V is a Bladder Volume Measurement System with 5.8GHz WLAN a/n/ac.
This test report addresses the 5.8GHz WLAN Operational mode.

Model name	Model name Designation	Description of design
BioCon-V	Basic model	-
*Note: The EUT has no additional model name.		

WiFi operating mode

Frequency range	Mode	ANT
5GHz (5 725 MHz ~ 5 850 MHz)	802.11a SISO	TX/RX
	802.11n SISO	TX/RX
	802.11ac SISO	TX/RX

MAXIMUM OUTPUT POWER

Band	Frequency Range [MHz]	Mode	Output Power	Output Power
			[dBm]	[mW]
UNII-3	5 745 – 5 825	802.11a	8.40	6.92
		802.11ac VHT20	8.38	6.89
	5 755 – 5 795	802.11ac VHT40	8.28	6.73
	5 775	802.11ac VHT80	8.12	6.49

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The internal antenna was Permanently attached.
Therefore this E.U.T Complies with the requirement of §15.203.

The radio utilizes a internal antenna, with a maximum gain of:

UNII Band	Frequency Range[MHz]	ANT Gain [dBi]
UNII 3	5 725 – 5 850	4.00

5.3. List of test reduction and modes covering other modes:

The output power on covered modes is equal to or less than one referenced.

Authorized Frequency Band			
Mode	Antenna Stream	Mode	Covered by
802.11a	SISO	802.11a 1TX	
802.11n HT20		802.11n HT20 1TX	802.11ac VHT20 1TX
802.11ac VHT20		802.11ac VHT20 1TX	
802.11n HT40		802.11n HT40 1TX	802.11ac VHT40 1TX
802.11ac VHT40		802.11ac VHT40 1TX	
802.11ac VHT80		802.11ac VHT80 1TX	

5.4. WORST-CASE CONFIGURATION AND MODE

The fundamentals of the EUT were investigated in three orthogonal orientations X, Y and Z. It was determined that below table's orientation was the worst-case orientation.

Mode Worst-case Axis

Worst-case Axis		
X	Y	Z
-	-	O

Based on the baseline scan, the worst-case data rates were:

802.11a mode: 6 Mbps 1Tx

802.11ac(VHT20) mode: MCS0 1Tx

802.11ac(VHT40) mode: MCS0 1Tx

802.11ac(VHT80) mode: MCS0 1Tx

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
-	-	-	-	-

I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
-	-	-	-	-	-	-

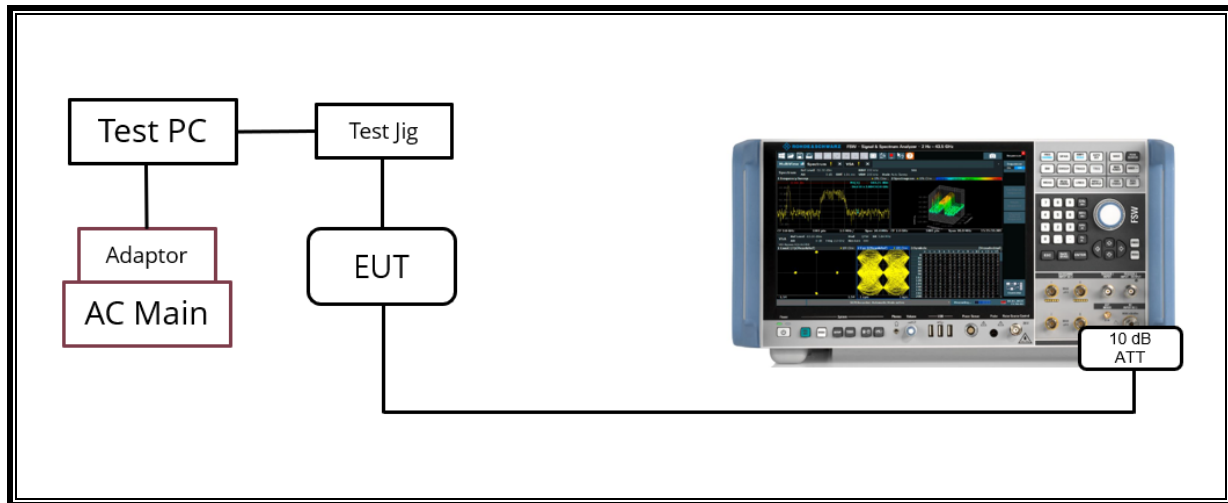
TEST SETUP

Test software exercised the EUT to enable WLAN 5.8GHz mode.

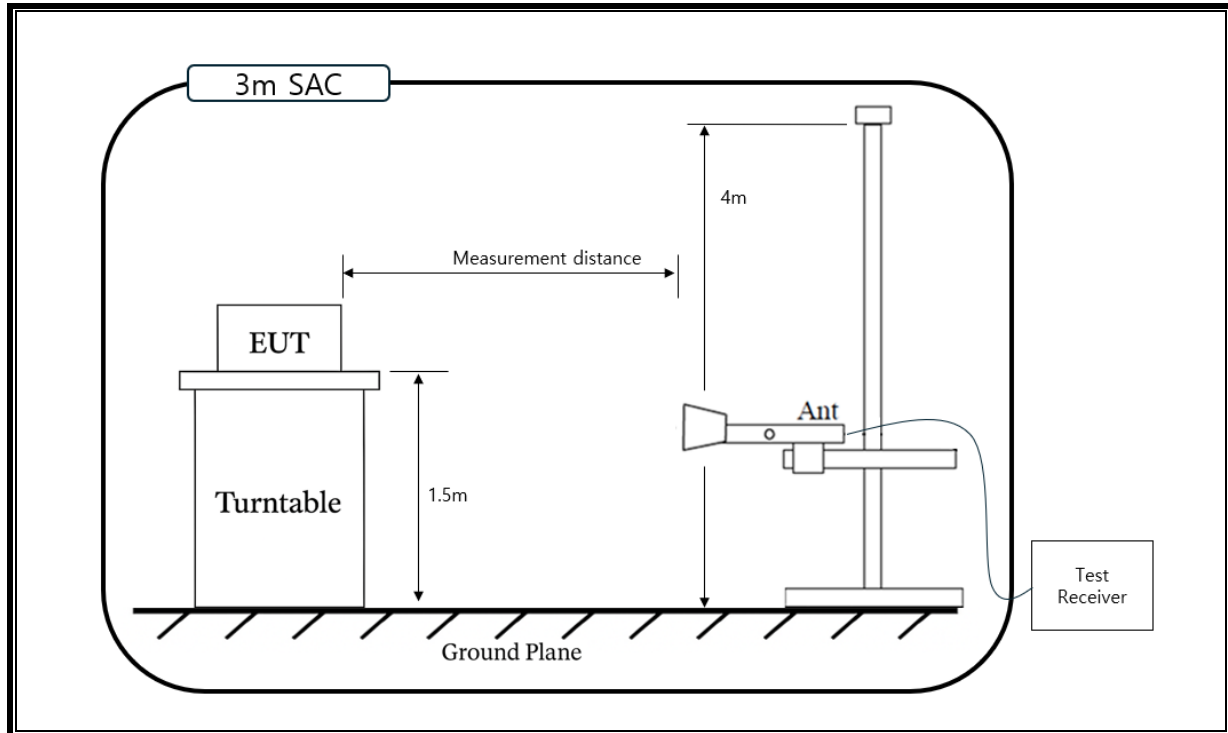
EUT Operation test setup

- Test Software : TeraTerm Version 4.106
- Power Setting : NA

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Description	Manufacturer	Model	Identifier	Cal. Date	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	FSW43	104089	2025-12-19	2026-12-19
EMI Test Receiver	Rohde & Schwarz	ESW44	103297	2026-01-20	2027-01-20
Signal Generator	Rohde & Schwarz	SMBV100A	262409	2025-07-21	2026-07-21
Signal Generator	Rohde & Schwarz	SMB100A	184060	2026-03-04	2027-03-04
DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS LINDGREN	3116C	00261440	2025-09-18	2026-09-18
Amplifier	ETS LINDGREN	3116C-PA	00261440	2025-09-17	2026-09-17
Double-Ridged Guide Antenna	ETS LINDGREN	3117	00261223	2025-09-18	2026-09-18
Amplifier	BNZ	BZR-01001800-231040-181515	31049	2025-07-16	2026-07-16
TRILOG BROADBAND ANTENNA	Schwarzbeck	VULB 9163	01670	2025-09-29	2027-09-29
Amplifier	EXYNOD	ELNA03-40D	631509	2025-07-14	2026-07-14
Power Sensor	Rohde & Schwarz	NRP-Z91	102681	2025-07-21	2026-07-21
Fixed Attenuator	PASTERNAK	PE7087-10	2241	2025-07-16	2026-07-16
Low Pass Filter	Micro-Tronics	LPS17541	019	2025-07-16	2026-07-16
High Pass Filter	Micro-Tronics	HPS17542	020	2025-07-16	2026-07-16
Loop Antenna	TESEQ	HLA 6121	65111	2025-07-17	2027-07-17
Attenuator	Centric RF	C040-10	N/A	2025-12-30	2026-12-30
Humidity/Baro/Temp DATA RECORDER	Lutron	MHB-382SD	AM.00223	2025-12-30	2026-12-30
Humidity/Baro/Temp DATA RECORDER	Lutron	MHB-382SD	AL.92208	2025-07-18	2026-07-18
Attn. Switch	Agilent	11713A	2508A07809	N/A	N/A
Controller	Innco Systems	CO3000	CO3000/1278/4938 0520/P	N/A	N/A
Antenna Mast	Innco Systems	MA4640	N/A	N/A	N/A
Turn Table	Innco Systems	DS2000	N/A	N/A	N/A

Measurement Software			
Description	Manufacturer	Model	Version
Radiated software	UL	UL EMC	Ver 9.5

7. SUMMARY TABLE

FCC Part Section	IC Part Section	Test Description	Test Limit	Test Condition	Test Result Note1
15.407(e)	RSS-247 7.3.4.2	6dB Bandwidth (5.8 GHz)	> 500kHz	Conducted	C
15.407 (a)(3)(i)	RSS-247 7.3.4.3	Maximum Conducted Output Power (5.725-5.850 GHz)	< 30dBm		C
15.407 (a)(3)	RSS-247 7.3.4.3	PSD (5.725-5.850 GHz)	< 30dBm/500kHz		C
15.207 (a)	RSS-GEN Clause 8.8	AC Power Line conducted emissions	Refer to Section 13	Radiated	NA ^{Note2}
15.407 (b) & 15.209	RSS-Gen 8.9 RSS-Gen 8.10 RSS-247 7.3.4.4	Radiated Spurious Emission	Refer to Section 11		C
15.407 (h)(2)	RSS-247 7.3.6	Dynamic Frequency Selection	N/A	Condcuted	NA ^{Note3}
Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable Note 2: The EUT is battery powered only and has no AC mains connection; therefore, AC power line conducted Emission testing is not applicable. Note 3: DFS testing is not applicable because the EUT operates only in the UNII 3 band (5 725–5 850 MHz), which is exempt from DFS requirements per FCC §15.407(h).					

8. MEASUREMENT METHODS

On-Time and Duty Cycle : KDB 789033 D02 v02r01, Section II.B.

6dB Emission BW : KDB 789033 D02 v02r01, Section II.C.2.

99% Occupied BW : KDB 789033 D02 v02r01, Section II.D.

Conducted Output Power : KDB 789033 D02 v02r01, Section II.E.3.a(Method PM)

Power Spectral Density : KDB 789033 D02 v02r01, Section II.F.

Unwanted emissions in restricted bands : KDB 789033 D02 v02r01, Section II.G.3 – II.G.6.

Unwanted emissions in non-restricted bands : KDB 789033 D02 v02r01, Section II.G.3 – II.G.6.

9. REFERENCE MEASUREMENTS RESULTS

9.1. ON TIME AND DUTY CYCLE RESULTS

Mode	On Time [ms]	Period [ms]	Duty Cycle X [Linear]	Duty Cycle X [%]	Duty Cycle Correction Factor[dB]
802.11a	2.065	2.115	0.98	97.64	0.10
802.11ac VHT20	1.935	1.985	0.97	97.48	0.11
802.11ac VHT40	0.952	1.003	0.95	94.92	0.23
802.11ac VHT80	0.461	0.510	0.90	90.35	0.44

Note. If the duty cycle is over 98%, compensation is not included in average measurement.

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 D02 v02r01 Zero-Span Spectrum Analyzer Method.

DUTY CYCLE SAMPLE PLOTS



10. ANTENNA PORT TEST RESULTS

10.1. 6 dB BANDWIDTH & 99% BANDWIDTH

LIMITS

FCC §15.407 / RSS-247 Section 7.3.4.2

- 6 dB Bandwidth

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

- 99% Bandwidth

None; for reporting purposes only.

TEST PROCEDURE

- 6 dB Bandwidth

RBW set to 100 kHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

- 99% Bandwidth

RBW: 1 ~ 5% of 99% Bandwidth, VBW $\geq 3 \times$ RBW, peak detector.

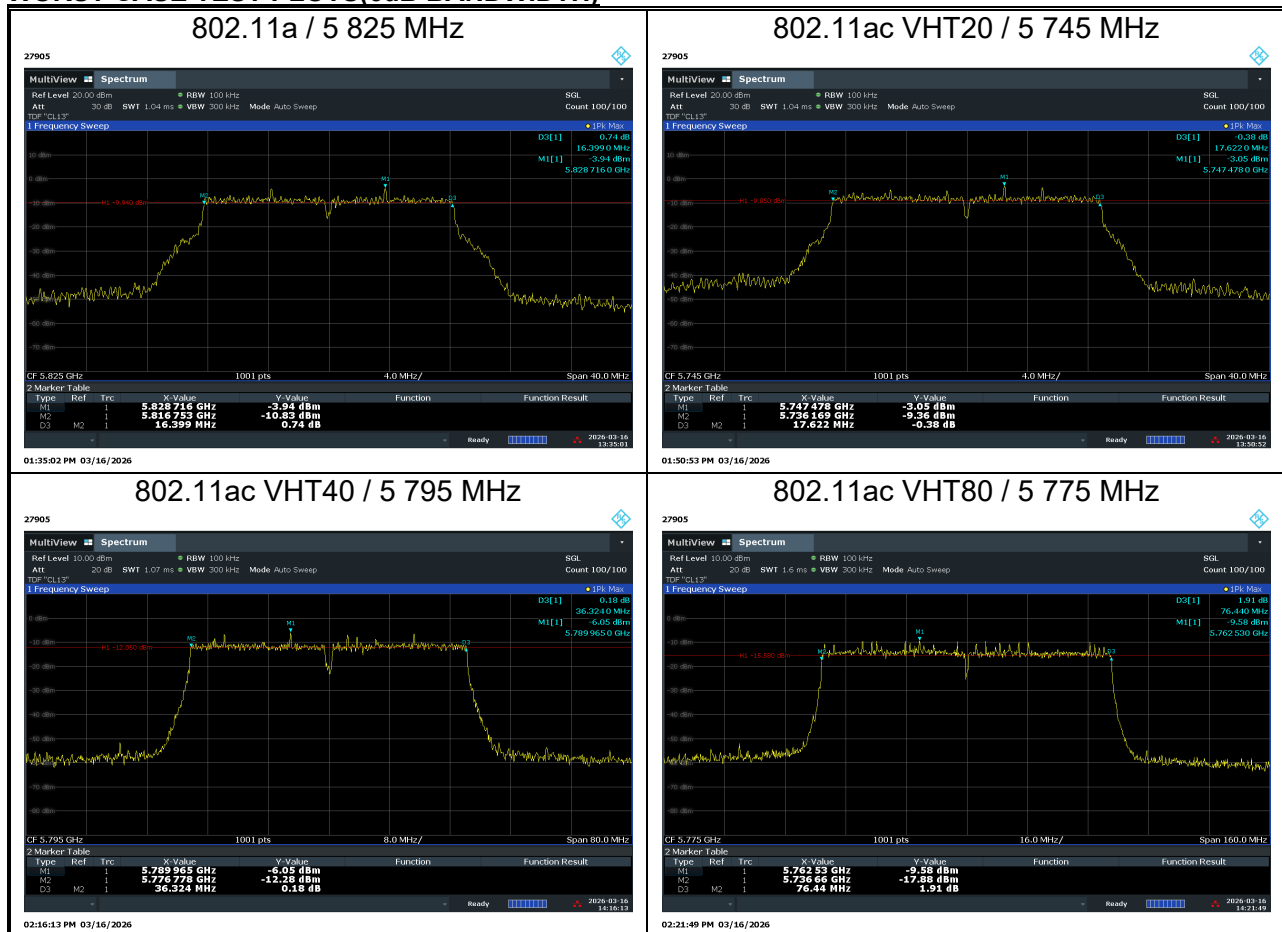
RESULTS

- Please refer to the next page

10.1.1. UNII-3 BAND(6 dB BANDWIDTH)

Mode	Channel	Center Freq. [MHz]	6 dB BW [MHz]	Worst	Minimum Limit [MHz]
802.11a	149	5 745	16.424	16.399	0.5
	157	5 785	16.503		
	165	5 825	16.399		
802.11ac VHT20	149	5 745	17.622	17.622	
	157	5 785	17.662		
	165	5 825	17.662		
802.11ac VHT40	151	5 755	36.484	36.324	
	159	5 795	36.324		
802.11ac VHT80	155	5 775	76.440	76.440	

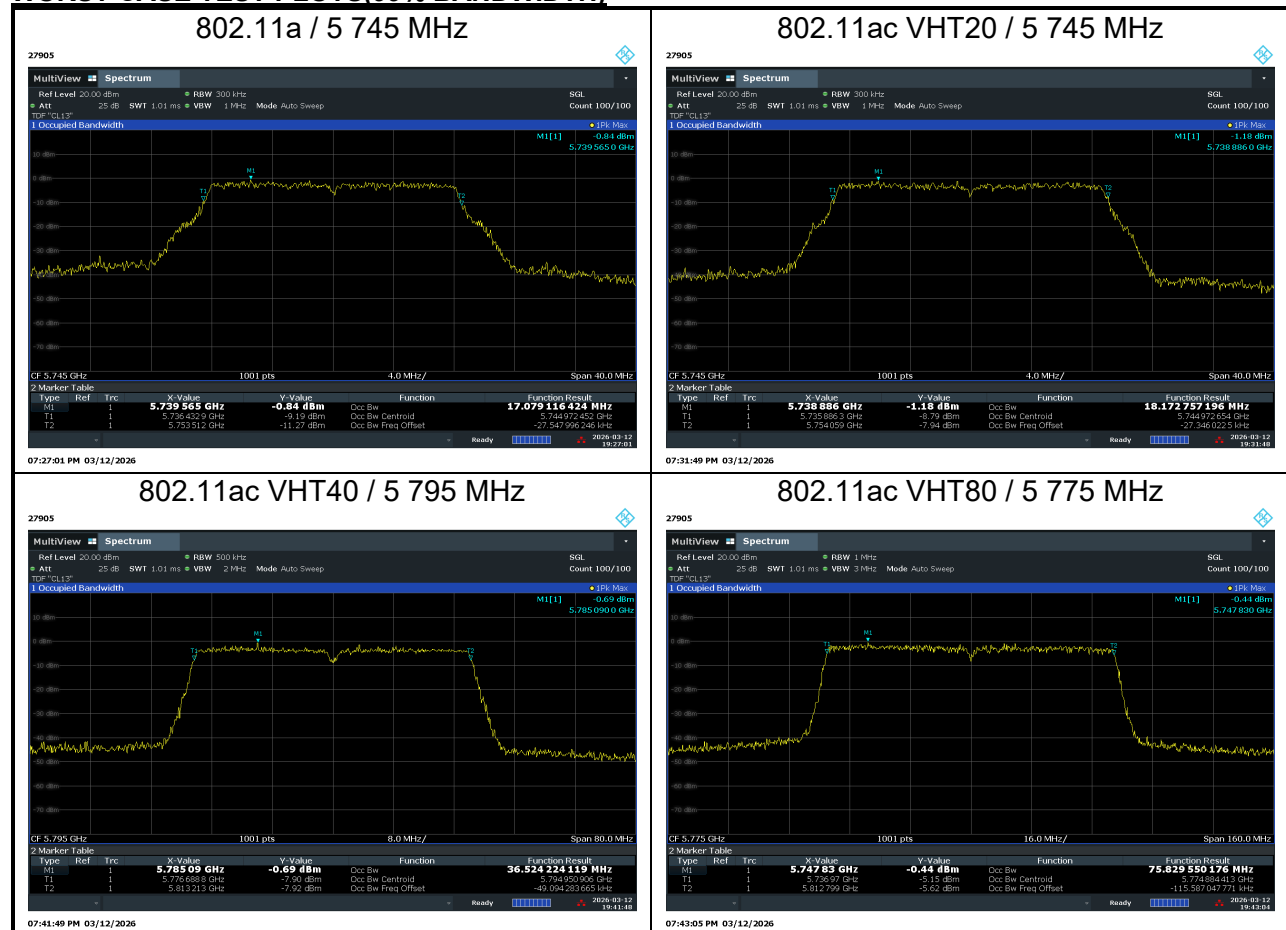
WORST CASE TEST PLOTS(6dB BANDWIDTH)



10.1.2. UNII-3 BAND(99% BANDWIDTH)

Mode	Channel	Center Freq. [MHz]	99% BW [MHz]	Worst	Minimum Limit [MHz]
802.11a	149	5 745	17.079	17.079	-
	157	5 785	17.084		
	165	5 825	17.102		
802.11ac VHT20	149	5 745	18.172	18.172	
	157	5 785	18.182		
	165	5 825	18.261		
802.11ac VHT40	151	5 755	36.543	36.524	
	159	5 795	36.524		
802.11ac VHT80	155	5 775	75.830	75.830	

WORST CASE TEST PLOTS(99% BANDWIDTH)



10.2. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a)(3)(i) / RSS-247-7.3.4.3

FCC

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

In addition, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC

Frequency band 5 725-5 850 MHz :

The maximum conducted output power shall not exceed 1 W.

The output power spectral density shall not exceed 30 dBm in any 500 kHz band.

TEST PROCEDURE

KDB 789033 Method PM is used for output power. Duty correction factor has already been applied to the power meter and the average power value is measured.

KDB 789033 Method SA-2 is used for PSD. RBW set to 1MHz(500kHz for the band 5.725-5.85 GHz, the VBW $\geq 3 \times$ RBW, RMS detector and trace averaging).

10.2.1. 802.11a MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Average Power [dBm]	Limit [dBm]
UNII-3	149	5 745	8.84	30.00
	157	5 785	8.68	
	165	5 825	8.79	

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]	DCCF	Corr'd PSD [dBm]	Limit [dBm/500 kHz]
UNII-3	149	5 745	-5.96	0.10	-5.86	30.00/500kHz
	157	5 785	-5.91	0.10	-5.81	
	165	5 825	-6.27	0.10	-6.17	

* Calculation of PSD: Corr'd PSD = Meas PSD[dBm/MHz] + DCCF [dB]

10.2.2. 802.11ac VHT20 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Average Power [dBm]	Limit [dBm]
UNII-3	149	5 745	8.99	30.00
	157	5 785	8.82	
	165	5 825	8.64	

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]	DCCF	Corr'd PSD [dBm]	Limit [dBm/500 kHz]
UNII-3	149	5 745	-6.16	0.11	-6.05	30.00/500kHz
	157	5 785	-6.25	0.11	-6.14	
	165	5 825	-6.37	0.11	-6.26	

* Calculation of PSD: Corr'd PSD = Meas PSD[dBm/MHz] + DCCF [dB]

10.2.3. 802.11ac VHT40 MODE

Output Power Results

Band	Channel	Center Freq. [MHz]	Average Power [dBm]	Limit [dBm]
UNII-3	151	5 755	8.90	30.00
	159	5 795	8.78	

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]	DCCF	Corr'd PSD [dBm]	Limit [dBm/500 kHz]
UNII-3	151	5 755	-9.16	0.23	-8.93	30.00/500kHz
	159	5 795	-9.30	0.23	-9.07	

* Calculation of PSD: Corr'd PSD = Meas PSD[dBm/MHz] + DCCF [dB]

10.2.4. 802.11ac VHT80 MODE

Output Power Results

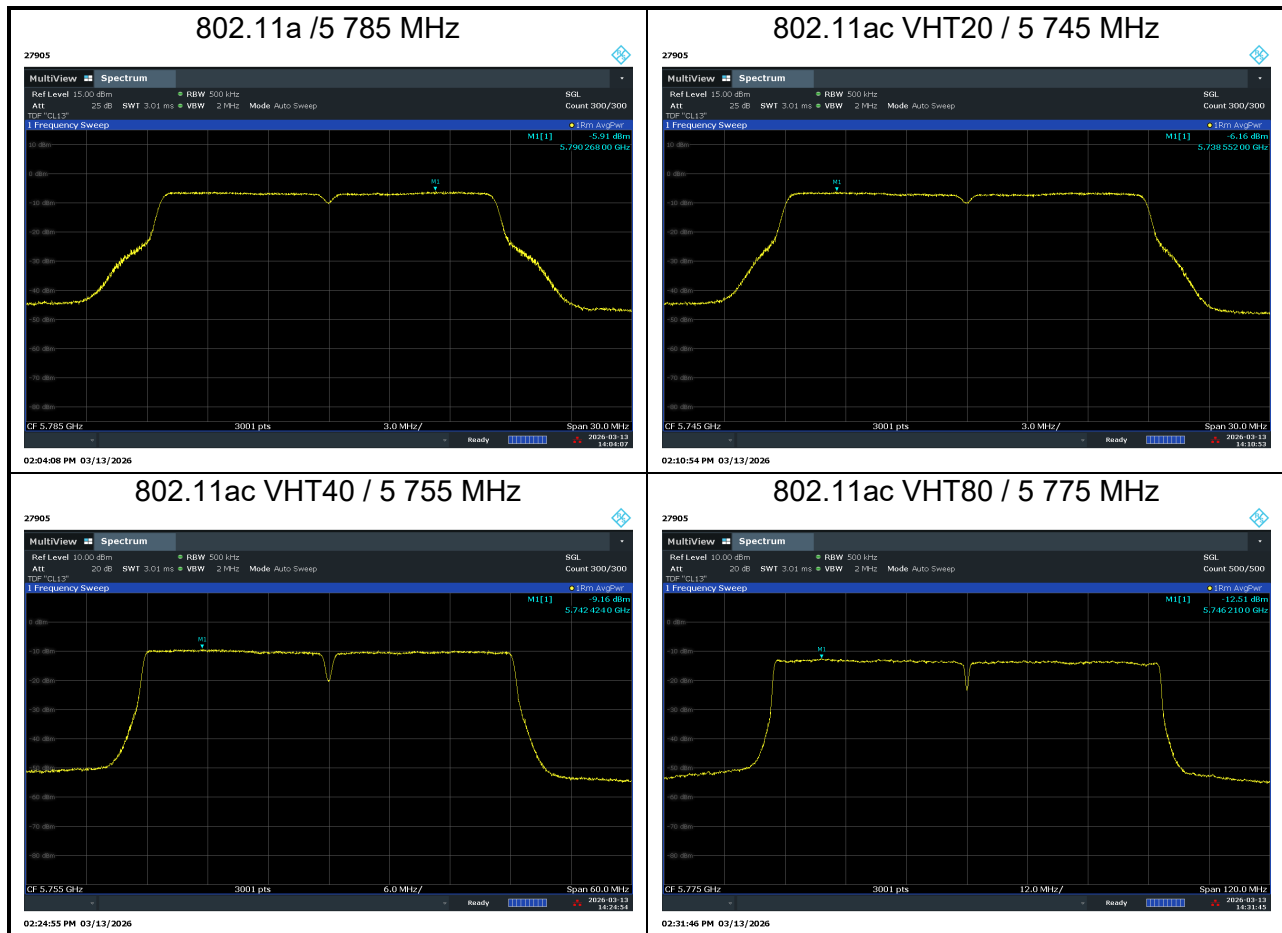
Band	Channel	Center Freq. [MHz]	Average Power [dBm]	Limit [dBm]
UNII-3	155	5 775	8.76	30.00

PSD Results

Band	Channel	Center Freq. [MHz]	Meas PSD [dBm/MHz]	DCCF	Corr'd PSD [dBm]	Limit [dBm/500 kHz]
UNII-3	155	5 775	-12.51	0.44	-12.07	30.00/500kHz

* Calculation of PSD: Corr'd PSD = Meas PSD[dBm/MHz] + DCCF [dB]

10.2.5. PSD PLOTS(WORST CASE)



11. TRANSMITTER ABOVE 1 GHz

LIMITS

IC RSS-GEN [8.9] & [8.10] / FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

RSS-Gen [8.9]

Frequency (MHz)	Field strength (µV/m at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

Frequency (MHz)	Magnetic field strength (H-Field) (µA/m)	Measurement Distance (m)
0.009–0.490 ^{Note 1}	6.37/F (F in kHz)	300
0.490–1.705	63.7/F (F in kHz)	30
1.705–30.0	0.08	30
Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.		

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

RSS-Gen (8.10) / FCC Part 15.205 (a): Restricted frequency bands

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.17	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	167.72 ~ 173.2	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	240 ~ 285	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	322 ~ 335.4	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	399.90 ~ 410	3345.8 ~ 3358		
		608 ~ 614	3600 ~ 4400		
		960 ~ 1240			

- RSS-Gen 8.10 : Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.
- FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

FCC §15.407 (b)

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating solely in the 5.725–5.850 GHz band:
 - (i) All emissions shall be limited to a level of –27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (3) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (4) The provisions of §15.205 apply to intentional radiators operating under this section.
- (5) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Note

- Limit translation to field strength level (FCC §15.407)

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -27\text{dBm} + 95.2 = 68.2\text{dBuV/m}$$

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -17\text{dBm} + 95.2 = 78.2\text{dBuV/m}$$

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 100 cm for above 1GHz. EUT is set 3 meters away from the receiving antenna and scan from 1m to 4m to find out the highest emission.

The EUT is configured in accordance with ANSI C63.10.

The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements.

Peak detection is used unless otherwise noted as quasi-peak.

Reference to KDB 789033 D02 v02r01 UNII part G) 6) c) Method AD:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth.

The EUT is rotated through 360 degrees to maximize emissions received.

The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).

Per FCC part 15.31(o), test results were not reported.

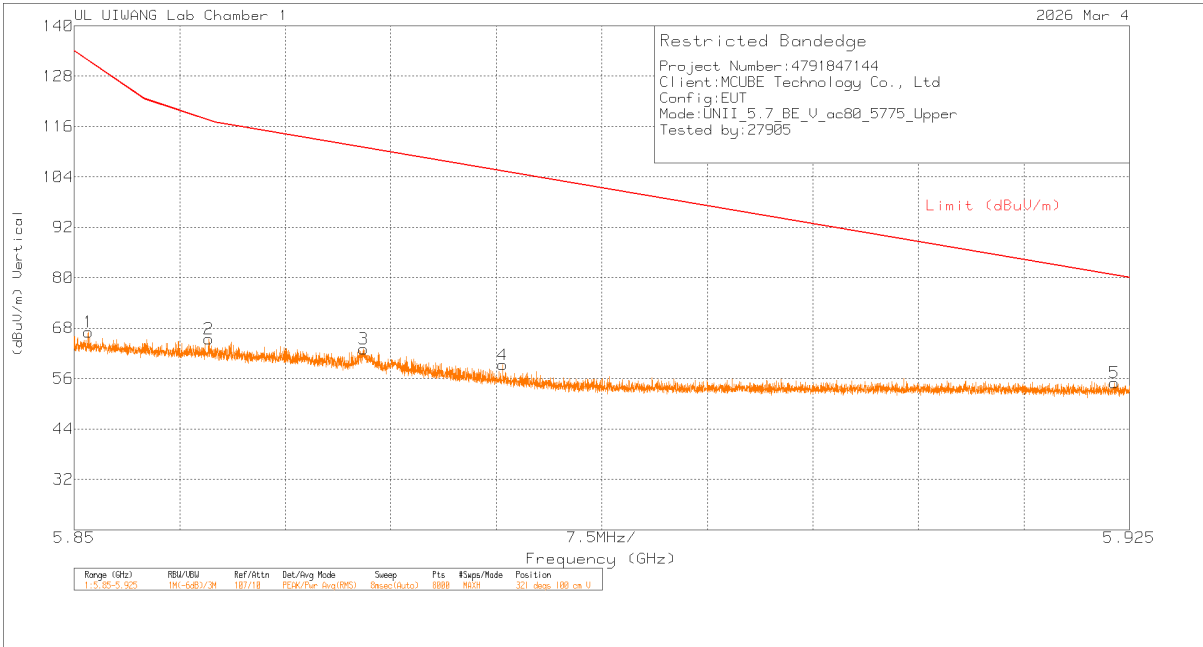
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.

Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

11.1. TX ABOVE 1GHz MODE IN THE 5.8 GHz BAND

BANDEDGE (WORST CASE: 802.11ac VHT80 / 5 775 MHz Upper)

VERTICAL PEAK DATA



Trace Markers

Marker	Frequency [GHz]	Meter Reading [dBuV]	Det	CH1_AF_1-18G_3117_2 50918[dB/m]	FB1_PL_1-18G_10dB_2 60113[dB]	CH1_CL_1-40G_Thru_2 60204[dB]	DC Corr [dB]	Corrected Reading [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Pol
1	5.850 99	51.47	Pk	34.80	-30.60	11.40	0.00	67.07	131.73	-64.66	321	100	V
2	5.859 58	49.94	Pk	34.80	-30.60	11.30	0.00	65.44	117.47	-52.03	321	100	V
3	5.870 58	47.71	Pk	34.90	-30.60	11.10	0.00	63.11	110.98	-47.87	321	100	V
4	5.880 45	43.95	Pk	34.90	-30.60	11.00	0.00	59.25	105.36	-46.11	321	100	V
5	5.923 91	40.12	Pk	34.90	-30.60	10.60	0.00	55.02	80.62	-25.60	321	100	V

Pk - Peak detector

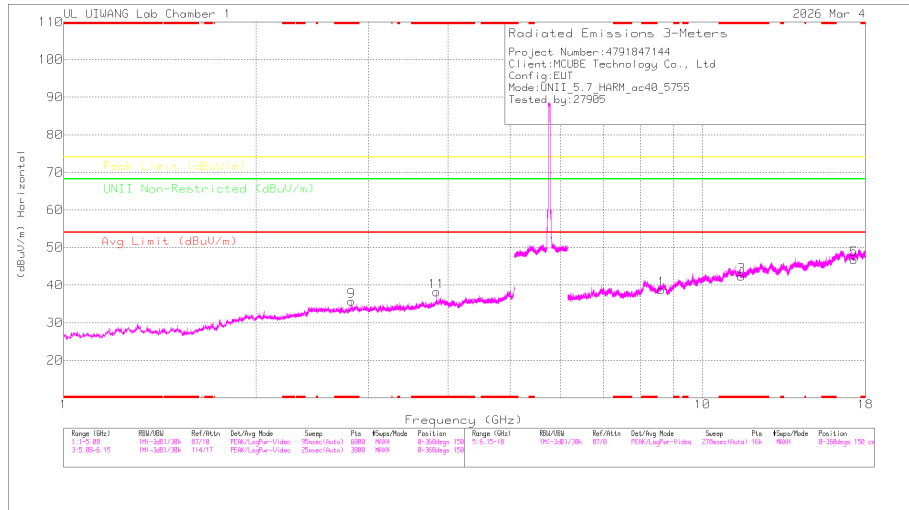
BANDEDGE TEST DATA

Freq. [MHz]	Mode	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	FB Gain [dB]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
5745	a	5.65174	39.23	Pk	34.40	-30.50	11.20	0.00	54.33	80.99	-26.66	245	113	H
		5.71536	43.52	Pk	34.50	-30.50	10.50	0.00	58.02	117.40	-59.38	245	113	H
		5.72356	53.14	Pk	34.50	-30.50	10.60	0.00	67.74	130.73	-62.99	245	113	H
		5.65331	39.21	Pk	34.40	-30.50	11.10	0.00	54.21	81.88	-27.67	142	103	V
		5.71532	45.94	Pk	34.50	-30.50	10.50	0.00	60.44	117.36	-56.92	142	103	V
		5.72306	53.49	Pk	34.50	-30.50	10.60	0.00	68.09	129.57	-61.48	142	103	V
5825	a	5.85052	44.68	Pk	34.80	-30.60	11.50	0.00	60.38	132.82	-72.44	79	103	H
		5.85630	43.40	Pk	34.80	-30.60	11.40	0.00	59.00	121.14	-62.14	79	103	H
		5.92455	39.32	Pk	34.90	-30.60	10.60	0.00	54.22	80.26	-26.04	79	103	H
		5.85609	47.47	Pk	34.80	-30.60	11.40	0.00	63.07	121.37	-58.30	320	100	V
		5.88181	41.56	Pk	34.90	-30.60	10.90	0.00	56.76	104.58	-47.82	320	100	V
		5.92069	39.39	Pk	34.90	-30.60	10.60	0.00	54.29	82.46	-28.17	320	100	V
5745	ac20	5.65015	39.27	Pk	34.40	-30.50	11.20	0.00	54.37	80.09	-25.72	240	100	H
		5.71005	49.31	Pk	34.50	-30.50	10.50	0.00	63.81	114.18	-50.37	240	100	H
		5.71152	49.21	Pk	34.50	-30.50	10.50	0.00	63.71	115.02	-51.31	240	100	H
		5.71820	50.41	Pk	34.50	-30.50	10.50	0.00	64.91	120.59	-55.68	240	100	H
		5.72215	57.12	Pk	34.50	-30.50	10.60	0.00	71.72	127.50	-55.78	240	100	H
		5.65034	39.34	Pk	34.40	-30.50	11.20	0.00	54.44	80.19	-25.75	142	102	V
		5.69717	42.09	Pk	34.40	-30.50	10.50	0.00	56.49	106.85	-50.36	142	102	V
		5.71124	50.77	Pk	34.50	-30.50	10.50	0.00	65.27	114.86	-49.59	142	102	V
		5.71874	52.66	Pk	34.50	-30.50	10.50	0.00	67.16	121.19	-54.03	142	102	V
		5.72438	60.83	Pk	34.50	-30.50	10.60	0.00	75.43	132.59	-57.16	142	102	V
5825	ac20	5.85010	44.71	Pk	34.80	-30.60	11.50	0.00	60.41	133.76	-73.35	134	103	H
		5.85512	44.28	Pk	34.80	-30.60	11.40	0.00	59.88	122.47	-62.59	134	103	H
		5.85608	44.10	Pk	34.80	-30.60	11.40	0.00	59.70	121.40	-61.70	134	103	H
		5.86016	42.70	Pk	34.80	-30.60	11.30	0.00	58.20	116.91	-58.71	134	103	H
		5.92495	38.45	Pk	34.90	-30.60	10.60	0.00	53.35	80.03	-26.68	134	103	H
		5.85016	47.24	Pk	34.80	-30.60	11.50	0.00	62.94	133.64	-70.70	140	100	V
		5.85408	45.25	Pk	34.80	-30.60	11.40	0.00	60.85	124.70	-63.85	140	100	V
		5.85875	45.72	Pk	34.80	-30.60	11.30	0.00	61.22	118.40	-57.18	140	100	V
		5.86400	42.90	Pk	34.90	-30.60	11.20	0.00	58.40	114.72	-56.32	140	100	V
		5.92473	39.11	Pk	34.90	-30.60	10.60	0.00	54.01	80.16	-26.15	140	100	V
5755	ac40	5.65083	38.49	Pk	34.40	-30.50	11.20	0.00	53.59	80.48	-26.89	295	104	H
		5.70460	47.25	Pk	34.50	-30.50	10.50	0.00	61.75	111.08	-49.33	295	104	H
		5.70722	48.88	Pk	34.50	-30.50	10.50	0.00	63.38	112.57	-49.19	295	104	H
		5.71410	53.56	Pk	34.50	-30.50	10.50	0.00	68.06	116.49	-48.43	295	104	H
		5.71845	53.97	Pk	34.50	-30.50	10.50	0.00	68.47	120.87	-52.40	295	104	H
		5.65071	39.24	Pk	34.40	-30.50	11.20	0.00	54.34	80.41	-26.07	320	103	V
		5.68509	43.68	Pk	34.40	-30.50	10.70	0.00	59.28	99.97	-41.69	320	103	V
		5.70496	51.82	Pk	34.50	-30.50	10.50	0.00	66.32	111.29	-44.97	320	103	V
		5.70661	52.91	Pk	34.50	-30.50	10.50	0.00	67.41	112.23	-44.82	320	103	V
		5.71104	53.84	Pk	34.50	-30.50	10.50	0.00	68.34	114.74	-46.40	320	103	V
5795	ac40	5.71859	55.52	Pk	34.50	-30.50	10.50	0.00	70.02	121.03	-51.01	320	103	V
		5.86227	41.17	Pk	34.80	-30.60	11.30	0.00	56.67	115.71	-59.04	244	104	H
		5.89431	40.53	Pk	34.90	-30.60	10.70	0.00	55.53	97.47	-41.94	244	104	H
		5.90634	39.81	Pk	34.90	-30.60	10.60	0.00	54.71	90.62	-35.91	244	104	H
		5.91066	40.68	Pk	34.90	-30.60	10.60	0.00	55.58	88.16	-32.58	244	104	H
		5.91908	39.62	Pk	34.90	-30.60	10.60	0.00	54.52	83.37	-28.85	244	104	H
		5.92361	39.21	Pk	34.90	-30.60	10.60	0.00	54.11	80.79	-26.68	244	104	H
		5.85772	43.81	Pk	34.80	-30.60	11.30	0.00	59.31	119.56	-60.25	142	101	V
		5.86201	43.08	Pk	34.80	-30.60	11.30	0.00	58.58	115.86	-57.28	142	101	V
		5.86731	42.62	Pk	34.90	-30.60	11.20	0.00	58.12	112.84	-54.72	142	101	V
5775 Low	ac80	5.90630	40.67	Pk	34.90	-30.60	10.60	0.00	55.57	90.64	-35.07	142	101	V
		5.91451	40.52	Pk	34.90	-30.60	10.60	0.00	55.42	85.97	-30.55	142	101	V
		5.92310	39.19	Pk	34.90	-30.60	10.60	0.00	54.09	81.08	-26.99	142	101	V
		5.65090	38.72	Pk	34.40	-30.50	11.20	0.00	53.82	80.52	-26.70	77	100	H
		5.66103	40.56	Pk	34.40	-30.50	11.00	0.00	55.46	86.28	-30.82	77	100	H
		5.67968	44.71	Pk	34.40	-30.50	10.80	0.00	59.41	96.90	-37.49	77	100	H
		5.70089	49.42	Pk	34.50	-30.50	10.50	0.00	63.92	108.97	-45.05	77	100	H
		5.71965	50.73	Pk	34.50	-30.50	10.50	0.00	65.23	122.21	-56.98	77	100	H
		5.65417	41.21	Pk	34.40	-30.50	11.10	0.00	56.21	82.38	-26.17	326	103	V
		5.66683	41.58	Pk	34.40	-30.50	10.90	0.00	56.38	89.58	-33.20	326	103	V
5775 Upper	ac80	5.68936	47.35	Pk	34.40	-30.50	10.60	0.00	61.85	102.41	-40.56	326	103	V
		5.69351	48.61	Pk	34.40	-30.50	10.60	0.00	63.11	104.77	-41.66	326	103	V
		5.71984	50.93	Pk	34.50	-30.50	10.50	0.00	65.43	122.42	-56.99	326	103	V
		5.85208	48.18	Pk	34.80	-30.60	11.40	0.00	63.78	129.25	-65.47	65	100	H
		5.85817	48.05	Pk	34.80	-30.60	11.30	0.00	63.55	119.05	-55.50	65	100	H
		5.87131	45.14	Pk	34.90	-30.60	11.10	0.00	60.54	110.56	-50.02	65	100	H
		5.89298	40.59	Pk	34.90	-30.60	10.80	0.00	55.69	98.23	-42.54	65	100	H
		5.91940	40.45	Pk	34.90	-30.60	10.60	0.00	55.35	83.19	-27.84	65	100	H
		5.85099	51.47	Pk	34.80	-30.60	11.40	0.00	67.07	131.73	-64.66	321	100	V
		5.85958	49.94	Pk	34.80	-30.60	11.30	0.00	65.44	117.47	-52.03	321	100	V
5775 Upper	ac80	5.87058	47.71	Pk	34.90	-30.60	11.10	0.00	63.11	110.98	-47.87	321	100	V
		5.88045	43.95	Pk	34.90	-30.60	11.00	0.00	59.25	105.36	-46.11	321	100	V
		5.92391	40.12	Pk	34.90	-30.60	10.60	0.00	55.02	80.62	-25.60	321	100	V

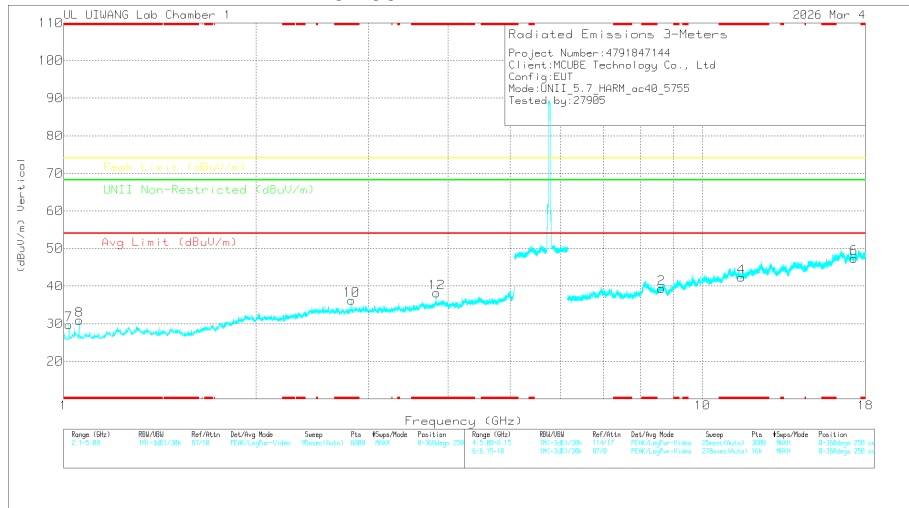
Note. Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11ac VHT40 / 5 755 MHz)

5 755 MHz HORIZONTAL



5 755 MHz VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

5 775 MHz DATA

Radiated Emissions

Frequency [GHz]	Meter Reading [dBuV]	Det	CH1_AF_1-180_3117_250918 [dBm]	FB1_PL_1-18G_5G_LP_260113 [dB]	CH1_CL_1-40G_Thru_2_60204 [dB]	DC Corr [dB]	Corrected Reading [dBuV/m]	Avg Limit [dBuV/m]	Margin [dB]	Peak Limit [dBuV/m]	Margin [dB]	UNII Non-Restricted [dBuV/m]	Margin [dB]	Azimuth [Degr]	Height [cm]	Pol
* 1.020 22	53.68	PK-U	27.60	-40.40	4.20	0.00	45.08	-	-	74.00	-28.92	-	-	84	160	V
* 1.019 13	38.12	ADR	27.60	-40.40	4.20	0.23	29.75	54.00	-24.25	-	-	-	-	84	160	V
* 1.059 73	52.46	PK-U	27.80	-40.50	4.30	0.00	44.06	-	-	74.00	-29.94	-	-	83	255	V
* 1.059 4	37.2	ADR	27.80	-40.50	4.30	0.23	28.03	54.00	-24.97	-	-	-	-	83	255	V
* 1.822 59	47.35	PK-U	32.20	-39.90	7.30	0.00	46.95	-	-	74.00	-27.05	-	-	346	234	H
* 2.822 32	35.66	ADR	32.20	-39.90	7.30	0.23	35.49	54.00	-18.51	-	-	-	-	346	234	H
* 2.822 46	48.62	PK-U	32.20	-39.90	7.30	0.00	48.22	-	-	74.00	-25.78	-	-	88	303	V
* 2.822 4	37.27	ADR	32.20	-39.90	7.30	0.23	37.1	54.00	-16.90	-	-	-	-	88	303	V
* 3.836 73	43.87	PK-U	33.30	-39.80	9.00	0.00	46.37	-	-	74.00	-27.63	-	-	128	119	H
* 3.836 73	34.05	ADR	33.30	-39.80	9.00	0.23	36.78	54.00	-17.22	-	-	-	-	128	119	H
* 3.836 68	44.59	PK-U	33.30	-39.80	9.00	0.00	47.09	-	-	74.00	-26.91	-	-	348	385	V
* 3.836 7	34.94	ADR	33.30	-39.80	9.00	0.23	37.67	54.00	-16.33	-	-	-	-	348	385	V
8.633 67	39.27	PK-U	35.80	-39.00	13.20	0.00	49.27	-	-	-	-	68.20	-18.93	0	100	H
8.629 14	38.99	PK-U	35.80	-39.00	13.20	0.00	48.99	-	-	-	-	68.20	-19.21	0	100	V
* 11.505 4	37	PK-U	38.10	-36.90	15.10	0.00	53.30	-	-	74.00	-20.70	-	-	0	100	H
* 11.510 8	37.17	PK-U	38.10	-36.90	15.10	0.00	53.47	-	-	74.00	-20.53	-	-	0	100	V
17.275 02	37.83	PK-U	40.60	-38.20	18.10	0.00	58.33	-	-	-	-	68.20	-9.87	0	100	H
17.267 96	38.84	PK-U	40.60	-38.20	18.10	0.00	58.24	-	-	-	-	68.20	-8.96	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA(802.11a)

Freq. [MHz]	Mode	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	FB Gain [dB]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
5745	a	* 1.01914	51.11	PK-U	27.60	-40.40	4.20	0.00	42.51	-	-	74.00	-31.49	-	-	81	163	V
		* 1.01935	36.88	ADR	27.60	-40.40	4.20	0.10	28.38	54.00	-25.62	-	-	-	-	81	163	V
		* 1.06016	51.21	PK-U	27.80	-40.50	4.30	0.00	42.81	-	-	74.00	-31.19	-	-	86	255	V
		* 1.05839	36.75	ADR	27.80	-40.50	4.30	0.10	28.45	54.00	-25.55	-	-	-	-	86	255	V
		* 2.82213	46.54	PK-U	32.20	-39.90	7.30	0.00	46.14	-	-	74.00	-27.86	-	-	282	335	H
		* 2.82239	34.81	ADR	32.20	-39.90	7.30	0.10	34.51	54.00	-19.49	-	-	-	-	282	335	H
		* 2.82225	47.51	PK-U	32.20	-39.90	7.30	0.00	47.11	-	-	74.00	-26.89	-	-	95	302	V
		* 2.82239	36.61	ADR	32.20	-39.90	7.30	0.10	36.31	54.00	-17.69	-	-	-	-	95	302	V
		* 3.82973	44.26	PK-U	33.30	-39.90	8.90	0.00	46.56	-	-	74.00	-27.44	-	-	90	362	H
		* 3.83004	35.12	ADR	33.30	-39.90	8.90	0.10	37.52	54.00	-16.48	-	-	-	-	90	362	H
		* 3.8305	44.57	PK-U	33.30	-39.90	8.90	0.00	46.87	-	-	74.00	-27.13	-	-	151	224	V
		* 3.83011	34.37	ADR	33.30	-39.90	8.90	0.10	36.77	54.00	-17.23	-	-	-	-	151	224	V
		8.618	38.98	PK-U	35.80	-39.10	13.10	0.00	48.78	-	-	-	-	68.20	-19.42	0	100	V
		8.62043	39.19	PK-U	35.80	-39.00	13.10	0.00	49.09	-	-	-	-	68.20	-19.11	0	100	V
		* 11.49066	36.86	PK-U	38.00	-36.90	15.20	0.00	53.16	-	-	74.00	-20.84	-	-	0	100	H
		* 11.49109	36.67	PK-U	38.00	-36.90	15.20	0.00	52.97	-	-	74.00	-21.03	-	-	0	100	V
		17.23109	37.51	PK-U	40.60	-38.00	17.70	0.00	57.81	-	-	-	-	68.20	-10.39	0	100	H
		17.23574	37.42	PK-U	40.60	-38.00	17.70	0.00	57.72	-	-	-	-	68.20	-10.48	0	100	V
5785	a	* 1.05797	52.75	PK-U	27.80	-40.50	4.30	0.00	44.35	-	-	74.00	-29.65	-	-	84	252	V
		* 1.05839	36.60	ADR	27.80	-40.50	4.30	0.10	28.30	54.00	-25.70	-	-	-	-	84	252	V
		* 2.82285	47.40	PK-U	32.20	-39.90	7.30	0.00	47.00	-	-	74.00	-27.00	-	-	289	340	H
		* 2.82214	35.40	ADR	32.20	-39.90	7.30	0.10	35.10	54.00	-18.90	-	-	-	-	289	340	H
		* 2.82226	48.09	PK-U	32.20	-39.90	7.30	0.00	47.69	-	-	74.00	-26.31	-	-	98	226	V
		* 2.82226	36.46	ADR	32.20	-39.90	7.30	0.10	36.16	54.00	-17.84	-	-	-	-	98	226	V
		* 3.85659	44.82	PK-U	33.30	-39.80	9.10	0.00	47.42	-	-	74.00	-26.58	-	-	98	360	H
		* 3.85652	35.67	ADR	33.30	-39.80	9.10	0.10	38.37	54.00	-15.63	-	-	-	-	98	360	H
		* 3.85644	44.08	PK-U	33.30	-39.80	9.10	0.00	46.68	-	-	74.00	-27.32	-	-	157	258	V
		* 3.85659	34.85	ADR	33.30	-39.80	9.10	0.10	37.55	54.00	-16.45	-	-	-	-	157	258	V
		8.67837	39.80	PK-U	35.80	-38.90	13.40	0.00	50.10	-	-	-	-	68.20	-18.10	0	100	H
		8.67849	39.39	PK-U	35.80	-38.90	13.40	0.00	49.69	-	-	-	-	68.20	-18.51	0	100	V
		* 11.57135	36.20	PK-U	38.10	-37.10	15.20	0.00	52.40	-	-	74.00	-21.60	-	-	0	100	H
		* 11.56953	36.66	PK-U	38.10	-37.10	15.20	0.00	52.86	-	-	74.00	-21.14	-	-	0	100	V
		17.35821	37.67	PK-U	40.60	-38.30	18.70	0.00	58.67	-	-	-	-	68.20	-9.53	0	100	H
		17.35434	37.92	PK-U	40.60	-38.30	18.70	0.00	58.92	-	-	-	-	68.20	-9.28	0	100	V
5825	a	* 1.01997	50.37	PK-U	27.60	-40.40	4.20	0.00	41.77	-	-	74.00	-32.23	-	-	137	162	V
		* 1.0192	36.63	ADR	27.60	-40.40	4.20	0.10	28.13	54.00	-25.87	-	-	-	-	137	162	V
		* 1.05857	52.60	PK-U	27.80	-40.50	4.30	0.00	44.20	-	-	74.00	-29.80	-	-	129	162	V
		* 1.05838	36.13	ADR	27.80	-40.50	4.30	0.10	27.83	54.00	-26.17	-	-	-	-	129	162	V
		* 2.82225	46.89	PK-U	32.20	-39.90	7.30	0.00	46.49	-	-	74.00	-27.51	-	-	159	263	H
		* 2.82224	35.52	ADR	32.20	-39.90	7.30	0.10	35.22	54.00	-18.78	-	-	-	-	159	263	H
		* 2.82223	47.79	PK-U	32.20	-39.90	7.30	0.00	47.39	-	-	74.00	-26.61	-	-	83	221	V
		* 2.8223	36.54	ADR	32.20	-39.90	7.30	0.10	36.24	54.00	-17.76	-	-	-	-	83	221	V
		* 3.88346	43.94	PK-U	33.40	-39.70	9.00	0.00	46.64	-	-	74.00	-27.36	-	-	135	377	H
		* 3.88331	34.20	ADR	33.40	-39.70	9.00	0.10	37.00	54.00	-17.00	-	-	-	-	135	377	H
		* 3.88343	43.59	PK-U	33.40	-39.70	9.00	0.00	46.29	-	-	74.00	-27.71	-	-	143	235	V
		* 3.8834	34.24	ADR	33.40	-39.70	9.00	0.10	37.04	54.00	-16.96	-	-	-	-	143	235	V
		8.73475	39.57	PK-U	35.80	-39.00	13.30	0.00	49.67	-	-	-	-	68.20	-18.53	0	100	H
		8.73989	39.41	PK-U	35.80	-39.00	13.30	0.00	49.51	-	-	-	-	68.20	-18.69	0	100	V
		* 11.65208	37.02	PK-U	38.20	-37.40	15.10	0.00	52.92	-	-	74.00	-21.08	-	-	0	100	H
		* 11.65334	36.72	PK-U	38.20	-37.40	15.10	0.00	52.62	-	-	74.00	-21.38	-	-	0	100	V
		17.47978	37.19	PK-U	40.70	-38.70	17.90	0.00	57.05	-	-	-	-	68.20	-11.11	0	100	H
		17.47627	37.14	PK-U	40.70	-38.70	17.90	0.00	57.04	-	-	-	-	68.20	-11.16	0	100	V

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS TEST DATA(802.11ac VHT20)

Freq. [MHz]	Mode	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dBm]	FB Gain [dB]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted (dBuV/m)	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
5745	ac20	* 1.01892	53.24	PK-U	27.60	-40.40	4.20	0.00	44.64	-	-	74.00	-29.36	-	-	83	161	V
		* 1.01928	37.77	ADR	27.60	-40.40	4.20	0.11	29.28	54.00	-24.72	-	-	-	-	83	161	V
		* 1.03894	50.36	PK-U	27.70	-40.40	4.20	0.00	41.86	-	-	74.00	-32.14	-	-	93	161	V
		* 1.03885	36.07	ADR	27.70	-40.40	4.20	0.11	27.68	54.00	-26.32	-	-	-	-	93	161	V
		* 1.0587	50.26	PK-U	27.80	-40.50	4.30	0.00	41.86	-	-	74.00	-32.14	-	-	93	254	V
		* 1.05847	37.17	ADR	27.80	-40.50	4.30	0.11	28.88	54.00	-25.12	-	-	-	-	93	254	V
		* 2.82277	47.67	PK-U	32.20	-39.90	7.30	0.00	47.27	-	-	74.00	-26.73	-	-	282	344	H
		* 2.82241	36.36	ADR	32.20	-39.90	7.30	0.11	36.07	54.00	-17.93	-	-	-	-	282	344	H
		* 2.82247	48.72	PK-U	32.20	-39.90	7.30	0.00	48.32	-	-	74.00	-25.68	-	-	94	228	V
		* 2.82253	37.95	ADR	32.20	-39.90	7.30	0.11	37.66	54.00	-16.34	-	-	-	-	94	228	V
		* 3.8302	44.50	PK-U	33.30	-39.90	8.90	0.00	46.80	-	-	74.00	-27.20	-	-	134	112	H
		* 3.83001	34.13	ADR	33.30	-39.90	8.90	0.11	36.54	54.00	-17.46	-	-	-	-	134	112	H
		* 3.82966	44.71	PK-U	33.30	-39.90	8.90	0.00	47.01	-	-	74.00	-26.99	-	-	330	125	V
		* 3.83002	34.98	ADR	33.30	-39.90	8.90	0.11	37.39	54.00	-16.61	-	-	-	-	330	125	V
		8.61741	38.80	PK-U	35.80	-39.10	13.10	0.00	48.60	-	-	-	-	68.20	-19.60	0	100	H
		8.61326	39.79	PK-U	35.80	-39.10	13.10	0.00	49.59	-	-	-	-	68.20	-18.61	0	100	V
		* 11.49431	36.73	PK-U	38.00	-36.90	15.10	0.00	52.93	-	-	74.00	-21.07	-	-	0	100	H
		* 11.49306	36.52	PK-U	38.00	-36.90	15.10	0.00	52.72	-	-	74.00	-21.28	-	-	0	100	V
		17.23073	38.21	PK-U	40.60	-38.00	17.70	0.00	58.51	-	-	-	-	68.20	-9.69	0	100	H
		17.23768	38.35	PK-U	40.60	-38.00	17.70	0.00	58.65	-	-	-	-	68.20	-9.55	0	100	V
5785	ac20	* 1.01654	51.32	PK-U	27.60	-40.40	4.20	0.00	42.72	-	-	74.00	-31.28	-	-	257	163	V
		* 1.01922	38.47	ADR	27.60	-40.40	4.20	0.11	29.98	54.00	-24.02	-	-	-	-	257	163	V
		* 1.0564	52.10	PK-U	27.80	-40.50	4.30	0.00	43.70	-	-	74.00	-30.30	-	-	255	254	V
		* 1.05842	37.49	ADR	27.80	-40.50	4.30	0.11	29.20	54.00	-24.80	-	-	-	-	255	254	V
		* 2.82237	47.55	PK-U	32.20	-39.90	7.30	0.00	47.15	-	-	74.00	-26.85	-	-	96	309	H
		* 2.8225	36.35	ADR	32.20	-39.90	7.30	0.11	36.06	54.00	-17.94	-	-	-	-	96	309	H
		* 2.8224	48.82	PK-U	32.20	-39.90	7.30	0.00	48.42	-	-	74.00	-25.58	-	-	280	278	V
		* 2.82244	37.38	ADR	32.20	-39.90	7.30	0.11	37.09	54.00	-16.91	-	-	-	-	280	278	V
		* 3.85671	44.09	PK-U	33.30	-39.80	9.10	0.00	46.69	-	-	74.00	-27.31	-	-	283	360	H
		* 3.85669	34.58	ADR	33.30	-39.80	9.10	0.11	37.29	54.00	-16.71	-	-	-	-	283	360	H
		* 3.85643	43.76	PK-U	33.30	-39.80	9.10	0.00	46.36	-	-	74.00	-27.64	-	-	148	113	V
		* 3.8568	34.20	ADR	33.30	-39.80	9.10	0.11	36.91	54.00	-17.09	-	-	-	-	148	113	V
		8.67568	39.43	PK-U	35.80	-38.90	13.40	0.00	49.73	-	-	-	-	68.20	-18.47	0	100	H
		8.67816	39.43	PK-U	35.80	-38.90	13.40	0.00	49.73	-	-	-	-	68.20	-18.47	0	100	V
		* 11.57005	36.95	PK-U	38.10	-37.10	15.20	0.00	53.15	-	-	74.00	-20.85	-	-	0	100	H
		* 11.57113	36.89	PK-U	38.10	-37.10	15.20	0.00	53.09	-	-	74.00	-20.91	-	-	0	100	V
		17.35699	38.14	PK-U	40.60	-38.30	18.70	0.00	59.14	-	-	-	-	68.20	-9.06	0	100	H
		17.35613	38.04	PK-U	40.60	-38.30	18.70	0.00	59.04	-	-	-	-	68.20	-9.16	0	100	V
5825	ac20	* 1.01923	53.61	PK-U	27.60	-40.40	4.20	0.00	45.01	-	-	74.00	-28.99	-	-	89	161	V
		* 1.01927	38.19	ADR	27.60	-40.40	4.20	0.11	29.70	54.00	-24.30	-	-	-	-	89	161	V
		* 1.05854	53.94	PK-U	27.80	-40.50	4.30	0.00	45.54	-	-	74.00	-28.46	-	-	81	255	V
		* 1.05846	37.53	ADR	27.80	-40.50	4.30	0.11	29.24	54.00	-24.76	-	-	-	-	81	255	V
		* 2.82247	47.98	PK-U	32.20	-39.90	7.30	0.00	47.58	-	-	74.00	-26.42	-	-	283	306	H
		* 2.82252	36.44	ADR	32.20	-39.90	7.30	0.11	36.15	54.00	-17.85	-	-	-	-	283	306	H
		* 2.82223	48.30	PK-U	32.20	-39.90	7.30	0.00	47.90	-	-	74.00	-26.10	-	-	94	310	V
		* 2.82238	37.73	ADR	32.20	-39.90	7.30	0.11	37.44	54.00	-16.56	-	-	-	-	94	310	V
		* 3.88377	44.49	PK-U	33.40	-39.70	9.00	0.00	47.19	-	-	74.00	-26.81	-	-	110	118	H
		* 3.88334	35.16	ADR	33.40	-39.70	9.00	0.11	37.97	54.00	-16.03	-	-	-	-	110	118	H
		* 3.8832	44.68	PK-U	33.40	-39.70	9.00	0.00	47.38	-	-	74.00	-26.62	-	-	324	128	V
		* 3.8833	35.47	ADR	33.40	-39.70	9.00	0.11	38.28	54.00	-15.72	-	-	-	-	324	128	V
		8.73556	39.96	PK-U	35.80	-39.00	13.30	0.00	50.06	-	-	-	-	68.20	-18.14	0	100	H
		8.73835	39.67	PK-U	35.80	-39.00	13.30	0.00	49.77	-	-	-	-	68.20	-18.43	0	100	V
		* 11.6482	36.85	PK-U	38.20	-37.40	15.10	0.00	52.75	-	-	74.00	-21.25	-	-	0	100	H
		* 11.64901	36.55	PK-U	38.20	-37.40	15.10	0.00	52.45	-	-	74.00	-21.55	-	-	0	100	V
		17.47330	37.00	PK-U	40.70	-38.70	17.90	0.00	56.90	-	-	-	-	68.20	-11.30	0	100	H
		17.47447	36.67	PK-U	40.70	-38.70	17.90	0.00	56.57	-	-	-	-	68.20	-11.63	0	100	V

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS TEST DATA(802.11ac VHT40)

Freq. [MHz]	Mode	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	FB Gain [dB]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted (dBuV/m)	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
5755	ac40	* 1.02022	53.68	PK-U	27.60	-40.40	4.20	0.00	45.08	-	-	74.00	-28.92	-	-	84	160	V
		* 1.01913	38.12	ADR	27.60	-40.40	4.20	0.23	29.75	54.00	-24.25	-	-	-	-	84	160	V
		* 1.05973	52.46	PK-U	27.80	-40.50	4.30	0.00	44.06	-	-	74.00	-29.94	-	-	83	255	V
		* 1.0584	37.20	ADR	27.80	-40.50	4.30	0.23	29.03	54.00	-24.97	-	-	-	-	83	255	V
		* 2.82259	47.35	PK-U	32.20	-39.90	7.30	0.00	46.95	-	-	74.00	-27.05	-	-	346	234	H
		* 2.82232	35.66	ADR	32.20	-39.90	7.30	0.23	35.49	54.00	-18.51	-	-	-	-	346	234	H
		* 2.82246	48.62	PK-U	32.20	-39.90	7.30	0.00	48.22	-	-	74.00	-25.78	-	-	88	303	V
		* 2.8224	37.27	ADR	32.20	-39.90	7.30	0.23	37.10	54.00	-16.90	-	-	-	-	88	303	V
		* 3.83673	43.87	PK-U	33.30	-39.80	9.00	0.00	46.37	-	-	74.00	-27.63	-	-	128	119	H
		* 3.83673	34.05	ADR	33.30	-39.80	9.00	0.23	36.78	54.00	-17.22	-	-	-	-	128	119	H
		* 3.83668	44.59	PK-U	33.30	-39.80	9.00	0.00	47.09	-	-	74.00	-26.91	-	-	348	385	V
		* 3.8367	34.94	ADR	33.30	-39.80	9.00	0.23	37.67	54.00	-16.33	-	-	-	-	348	385	V
		8.63367	39.27	PK-U	35.80	-39.00	13.20	0.00	49.27	-	-	-	-	68.20	-18.93	0	100	H
		8.62914	38.99	PK-U	35.80	-39.00	13.20	0.00	48.99	-	-	-	-	68.20	-19.21	0	100	V
		* 11.5054	37.00	PK-U	38.10	-36.90	15.10	0.00	53.30	-	-	74.00	-20.70	-	-	0	100	H
		* 11.5108	37.17	PK-U	38.10	-36.90	15.10	0.00	53.47	-	-	74.00	-20.53	-	-	0	100	V
		17.27502	37.83	PK-U	40.60	-38.20	18.10	0.00	58.33	-	-	-	-	68.20	-9.87	0	100	H
		17.26796	38.84	PK-U	40.60	-38.20	18.00	0.00	59.24	-	-	-	-	68.20	-8.96	0	100	V
5795	ac40	* 1.02006	49.12	PK-U	27.60	-40.40	4.20	0.00	40.52	-	-	74.00	-33.48	-	-	78	162	V
		* 1.0193	38.31	ADR	27.60	-40.40	4.20	0.23	29.94	54.00	-24.06	-	-	-	-	78	162	V
		* 1.05807	53.87	PK-U	27.80	-40.50	4.30	0.00	45.47	-	-	74.00	-28.53	-	-	78	253	V
		* 1.05842	37.13	ADR	27.80	-40.50	4.30	0.23	28.96	54.00	-25.04	-	-	-	-	78	253	V
		* 2.82269	48.11	PK-U	32.20	-39.90	7.30	0.00	47.71	-	-	74.00	-26.29	-	-	286	342	H
		* 2.82239	36.59	ADR	32.20	-39.90	7.30	0.23	36.42	54.00	-17.58	-	-	-	-	286	342	H
		* 2.82241	48.46	PK-U	32.20	-39.90	7.30	0.00	48.06	-	-	74.00	-25.94	-	-	86	220	V
		* 2.82251	37.06	ADR	32.20	-39.90	7.30	0.23	36.89	54.00	-17.11	-	-	-	-	86	220	V
		* 3.86328	44.25	PK-U	33.30	-39.80	9.10	0.00	46.85	-	-	74.00	-27.15	-	-	119	382	H
		* 3.86342	35.07	ADR	33.30	-39.80	9.10	0.23	37.90	54.00	-16.10	-	-	-	-	119	382	H
		* 3.86388	44.37	PK-U	33.30	-39.80	9.10	0.00	46.97	-	-	74.00	-27.03	-	-	200	104	V
		* 3.8633	35.80	ADR	33.30	-39.80	9.10	0.23	38.63	54.00	-15.37	-	-	-	-	200	104	V
		8.69480	39.56	PK-U	35.80	-38.90	13.50	0.00	49.96	-	-	-	-	68.20	-18.24	0	100	H
		8.69382	39.40	PK-U	35.80	-38.90	13.50	0.00	49.80	-	-	-	-	68.20	-18.40	0	100	V
		* 11.59238	36.17	PK-U	38.10	-37.20	15.20	0.00	52.27	-	-	74.00	-21.73	-	-	0	100	H
		* 11.58766	36.53	PK-U	38.10	-37.20	15.20	0.00	52.63	-	-	74.00	-21.37	-	-	0	100	V
		17.38290	37.19	PK-U	40.60	-38.20	18.50	0.00	58.09	-	-	-	-	68.20	-10.11	0	100	H
		17.38727	37.22	PK-U	40.60	-38.20	18.50	0.00	58.12	-	-	-	-	68.20	-10.08	0	100	V

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS TEST DATA(802.11ac VHT80)

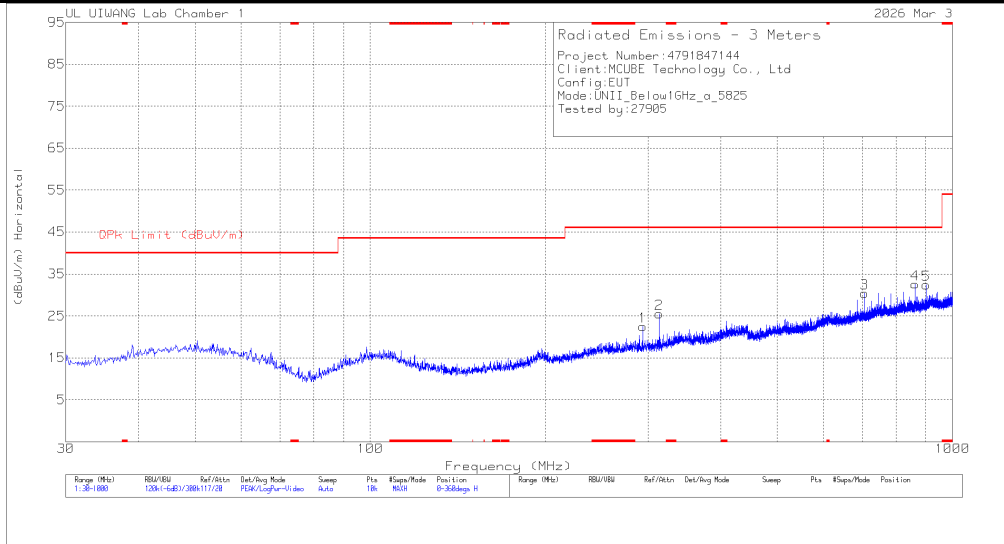
Freq. [MHz]	Mode	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	FB Gain [dB]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Non-Restricted (dBuV/m)	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
5775	ac80	* 1.02018	51.39	PK-U	27.60	-40.40	4.20	0.00	42.79	-	-	74.00	-31.21	-	-	80	161	V
		* 1.01913	37.68	ADR	27.60	-40.40	4.20	0.44	29.52	54.00	-24.48	-	-	-	-	80	161	V
		* 1.06341	53.13	PK-U	27.80	-40.50	4.30	0.00	44.73	-	-	74.00	-29.27	-	-	80	255	V
		* 1.05843	36.94	ADR	27.80	-40.50	4.30	0.44	28.98	54.00	-25.02	-	-	-	-	80	255	V
		* 2.82249	47.47	PK-U	32.20	-39.90	7.30	0.00	47.07	-	-	74.00	-26.93	-	-	284	340	H
		* 2.8223	36.45	ADR	32.20	-39.90	7.30	0.44	36.49	54.00	-17.51	-	-	-	-	284	340	H
		* 2.82248	48.47	PK-U	32.20	-39.90	7.30	0.00	48.07	-	-	74.00	-25.93	-	-	86	302	V
		* 2.82225	37.27	ADR	32.20	-39.90	7.30	0.44	37.31	54.00	-16.69	-	-	-	-	86	302	V
		* 3.85025	43.86	PK-U	33.30	-39.80	9.10	0.00	46.46	-	-	74.00	-27.54	-	-	138	100	H
		* 3.84997	33.91	ADR	33.30	-39.80	9.10	0.44	36.95	54.00	-17.05	-	-	-	-	138	100	H
		* 3.85014	43.97	PK-U	33.30	-39.80	9.10	0.00	46.57	-	-	74.00	-27.43	-	-	328	112	V
		* 3.8501	34.74	ADR	33.30	-39.80	9.10	0.44	37.78	54.00	-16.22	-	-	-	-	328	112	V
		8.66187	39.38	PK-U	35.80	-38.90	13.30	0.00	49.58	-	-	-	-	68.20	-18.62	0	100	H
		8.66469	39.15	PK-U	35.80	-38.90	13.30	0.00	49.35	-	-	-	-	68.20	-18.85	0	100	V
		* 11.54807	36.07	PK-U	38.10	-37.00	15.20	0.00	52.37	-	-	74.00	-21.63	-	-	0	100	H
		* 11.54989	36.13	PK-U	38.10	-37.00	15.20	0.00	52.43	-	-	74.00	-21.57	-	-	0	100	V
		17.32832	37.87	PK-U	40.60	-38.30	18.60	0.00	58.77	-	-	-	-	68.20	-9.43	0	100	H
		17.32691	37.82	PK-U	40.60	-38.30	18.60	0.00	58.72	-	-	-	-	68.20	-9.48	0	100	V

Note1. PK-U - U-NII: Maximum Peak / ADR - U-NII AD primary method, RMS average

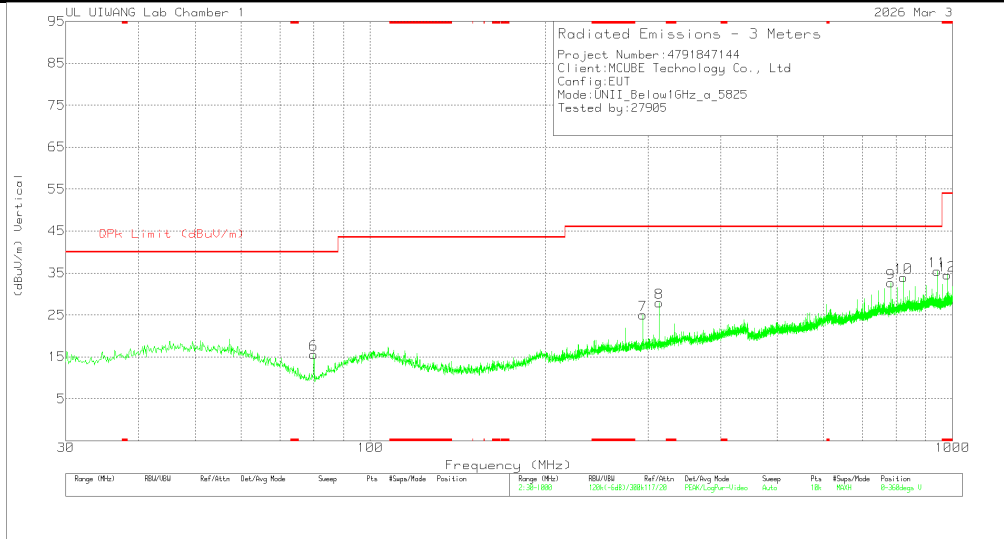
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

12. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1 000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



SPURIOUS EMISSIONS 30 TO 1 000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



Trace Markers

Frequency [MHz]	Meter Reading [dBuV]	Det	CH1_AF_30-1000M_250929 [dB/m]	CH1_PL_30-1000M_AMP_260 204[dB]	Corrected Reading [dBuV/m]	QPk Limit [dBuV/m]	Margin [dB]	Azimuth [Degs]	Height [cm]	Pol
79.960 2	42.84	Pk	12.40	-39.60	15.64	40.00	-24.36	0-360	200	V
293.964 2	42.32	Pk	18.70	-38.50	22.52	46.02	-23.50	0-360	100	H
293.964 2	44.80	Pk	18.70	-38.50	25.00	46.02	-21.02	0-360	100	V
313.560 2	44.91	Pk	19.00	-38.40	25.51	46.02	-20.51	0-360	100	H
313.657 2	47.34	Pk	19.00	-38.40	27.94	46.02	-18.08	0-360	100	V
705.674 7	42.34	Pk	25.10	-37.00	30.44	46.02	-15.58	0-360	100	H
784.058 7	43.22	Pk	26.20	-36.80	32.62	46.02	-13.40	0-360	100	V
823.250 8	44.05	Pk	26.60	-36.70	33.95	46.02	-12.07	0-360	100	V
862.442 8	42.11	Pk	27.10	-36.60	32.61	46.02	-13.41	0-360	100	H
901.634 9	41.26	Pk	27.70	-36.50	32.46	46.02	-13.56	0-360	100	H
940.826 9	44.07	Pk	27.70	-36.30	35.47	46.02	-10.55	0-360	100	V
* 980.115 9	43.00	Pk	27.70	-36.20	34.50	53.97	-19.47	0-360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

13. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a), IC RSS-GEN Clause 8.8

Frequency (MHz)	Conducted Limit [dBUV]	
	Quasi-peak	Average
0.15–0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50
* The level decreases with the logarithm of the frequency.		

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

N/A (This product is a battery-operated device.)

END OF TEST REPORT