

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-262-RWD-077
Reception No. : 2510003507
Applicant : Remote Solution Co., Ltd.
Address : 92, Chogokri, Nammyun, Kimchon City, Kyungbuk, 740-871, South Korea
Manufacturer : Remote Solution Co., Ltd.
Address : 326-14, Apo-daero, Nam-myeon, Gimcheon-si, Gyeongsangbuk-do, 39662, South Korea
Type of Equipment : Josh Edge Base
FCC ID. : TX4-EE48
Model Name : EE48
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 45 pages (including this page)
Date of Incoming : November 03, 2025
Date of issue : February 27, 2026

SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).



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※ Please refer to the Annex section for All test plots

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-262-RWD-077	February 27, 2026	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : Remote Solution Co., Ltd.
 Address : 92, Chogokri, Nammyun, Kimchon City, Kyungbuk, 740-871, South Korea
 Contact Person : jikwon / Pro
 Telephone No. : +82-31-390-1592
 FCC ID : TX4-EE48
 Model Name : EE48
 Brand Name : -
 Serial Number : N/A

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Josh Edge Base
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Conducted(average) Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

-. Lab Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The Remote Solution Co., Ltd., Model EE48 (referred to as the EUT in this report) is a Josh Edge Base. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Josh Edge Base	
Temperature Range	0 °C ~ 50 °C	
OPERATING FREQUENCY	Bluetooth LE	2 402 MHz ~ 2 480 MHz
	WLAN 2.4 GHz	2 412 MHz ~ 2 462 MHz (802.11b/g/n(HT20))
	WLAN 5 150 MHz ~ 5 250 MHz Band	5 180 MHz ~ 5 240 MHz (802.11a/n(HT20)/ac(VHT20)/ax(HE20))
	WLAN 5 250 MHz ~ 5 350 MHz Band	5 260 MHz ~ 5 320 MHz (802.11a/n(HT20)/ac(VHT20)/ax(HE20))
	WLAN 5 470 MHz ~ 5 725 MHz Band	5 500 MHz ~ 5 720 MHz (802.11a/n(HT20)/ac(VHT20)/ax(HE20))
	WLAN 5 725 MHz ~ 5 850 MHz Band	5 745 MHz ~ 5 825 MHz (802.11a/n(HT20)/ac(VHT20)/ax(HE20))
MODULATION TYPE	Bluetooth LE	GFSK for 2 Mbps
	WLAN 2.4 GHz	802.11b: DSSS Modulation(DBPSK/DQPSK/CCK) 802.11g/n(HT20): OFDM Modulation(BPSK/QPSK/16QAM/64QAM)
	WLAN 5 GHz	802.11a/n(HT20)/ax(HE20)) OFDM Modulation(BPSK/QPSK/16QAM/64QAM)
RF OUTPUT POWER	Bluetooth LE	5.82 dBm
	WLAN 2.4 GHz	12.96 dBm(802.11b) 13.06 dBm(802.11g) 13.02 dBm(802.11n_HT20) 12.96 dBm(802.11ax_HE20)

RF OUTPUT POWER	WLAN 5 150 MHz ~ 5 250 MHz Band	9.10 dBm(802.11a) 9.05 dBm(802.11ac_VHT20) 9.30 dBm(802.11ax_HE20)
	WLAN 5 250 MHz ~ 5 350 MHz Band	13.59 dBm(802.11a) 13.56 dBm(802.11ac_VHT20) 13.78 dBm(802.11ax_HE20)
	WLAN 5 470 MHz ~ 5 725 MHz Band	15.02 dBm(802.11a) 15.11 dBm(802.11ac_VHT20) 15.35 dBm(802.11ax_HE20)
	WLAN 5 725 MHz ~ 5 850 MHz Band	8.25 dBm(802.11a) 8.21 dBm(802.11ac_VHT20) 8.49 dBm(802.11ax_HE20)
ANTENNA TYPE	Bluetooth LE: PCB Antenna WLAN 2.4 GHz / 5 GHz: Metal Antenna	
ANTENNA TRANSMIT TYPE	Bluetooth LE: 1T1R WLAN 5 GHz: 1T1R WLAN 2.4 GHz: 1T1R	
ANTENNA GAIN	Bluetooth LE	-0.13 dBi
	WLAN 2.4 GHz	-0.19 dBi
	5 150 MHz ~ 5 250 MHz Band	4.65 dBi
	5 250 MHz ~ 5 350 MHz Band	5.07 dBi
	5 470 MHz ~ 5 725 MHz Band	5.37 dBi
	5 725 MHz ~ 5 850 MHz Band	4.36 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)		40 MHz

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	Remote Solution Co., Ltd.	N/A	N/A

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
EE48	Remote Solution Co., Ltd.	Josh Edge Base (EUT)	-
HP250 G9 6N224PC	HP	Notebook PC	EUT

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting mode is programmed.

-. Frequency / Channel Operations

Channel	Frequency
1	2 412
2	2 417
3	2 422
4	2 427
5	2 432
6	2 437
7	2 442
8	2 447
9	2 452
10	2 457
11	2 462

-. Power Level Setting(Dec)

Operating Frequency		Power Level Setting(Dec)			
		802.11 b	802.11 g	802.11 n(HT20)	A802.11 ax(HE20)
WLAN 2.4 GHz (2 412 MHz ~ 2 462 MHz)	2 412 MHz	6	0	0	0
	2 417 MHz	8	4	3	2
	2 422 MHz	9	8	7	7
	2 427 MHz	13	13	13	13
	2 432 MHz	13	13	13	13
	2 437 MHz	13	13	13	13
	2 442 MHz	13	13	13	13
	2 447 MHz	13	13	11	10
	2 452 MHz	13	9	8	8
	2 457 MHz	8	6	5	4
	2 462 MHz	7	2	1	1

-. Output power

Modulation	DATA RATE	OUTPUT POWER[dBm]
802.11 b (Middle Channel)	1 Mbps	12.96
	2 Mbps	12.91
	5.5 Mbps	12.85
	11 Mbps	12.83
802.11 g (Middle Channel)	6 Mbps	12.49
	9 Mbps	12.45
	12 Mbps	12.39
	18 Mbps	12.37
	24 Mbps	13.06
	36 Mbps	13.05
	48 Mbps	13.03
	54 Mbps	13.00
802.11 HT 20 (Middle Channel)	MCS 0	12.42
	MCS 1	12.38
	MCS 2	12.35
	MCS 3	13.02
	MCS 4	13.01
	MCS 5	13.00
	MCS 6	13.00
	MCS 7	12.99
802.11 HE 20 (Middle Channel)	MCS 0	12.12
	MCS 1	12.11
	MCS 2	12.13
	MCS 3	12.73
	MCS 4	12.77
	MCS 5	12.96
	MCS 6	12.79
	MCS 7	12.71
	MCS 8	12.79
	MCS 9	12.79

-. The worse case data rate for each modulation is determined 1 Mbps for IEEE 802.11b, 24 Mbps for 802.11g, MCS 3 for HT20, MCS 5 for HE20.

-. To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis.

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OTC-TRF-RF-001(0)

-. Duty Cycle

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
802.11 b	-	-	100.00	-
802.11 g	-	-	100.00	-
802.11 HT 20			100.00	
802.11 HE 20	-	-	100.00	-

Note – Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) * 100

Correction Factor : $10 * \log(1 / (\text{Duty Cycle} / 100))$

5.4 Configuration of Test System

Line Conducted Test: The EUT was connected to USB and the power of USB was connected to Notebook PC. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Construction:

The EUT's antennas are a Metal antenna, which are permanently attached to the EUT and cannot be replaced by the user.

6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Output Power	1.22
Conducted Spurious Emission < 26.5 GHz	1.40
Power Spectral Density	1.22
Line Conducted Disturbance (150 kHz ~ 30 MHz)	1.60
Radiated Disturbance (9 kHz ~ 30 MHz)	3.28
Radiated Disturbance (30 MHz ~ 1 GHz)	4.42
Radiated Disturbance (1 GHz ~ 18 GHz)	5.12
Radiated Disturbance (18 GHz ~ 40 GHz)	5.67

7. PRELIMINARY TEST

7.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

7.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

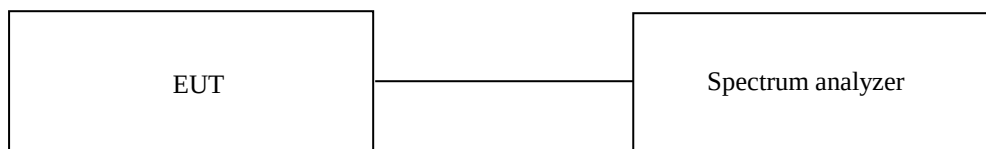
8. MINIMUM 6 dB BANDWIDTH

8.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



8.3 Test Date

November 03, 2025 ~ December 05, 2025

8.4 Test data for 802.11b WLAN Mode

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (MHz)	LIMIT (MHz)	Margin (MHz)
Low	2 412.00	8.09	0.50	7.59
Middle	2 437.00	8.09	0.50	7.59
High	2 462.00	8.09	0.50	7.59

Remark. Margin = Measured Value - Limit

8.5 Test data for 802.11g WLAN Mode

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (MHz)	LIMIT (MHz)	Margin (MHz)
Low	2 412.00	16.48	0.50	15.98
Middle	2 437.00	16.53	0.50	16.03
High	2 462.00	16.53	0.50	16.03

Remark. Margin = Measured Value - Limit

8.6 Test data for 802.11n_HT20 WLAN Mode

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (MHz)	LIMIT (MHz)	Margin (MHz)
Low	2 412.00	18.58	0.50	18.08
Middle	2 437.00	18.53	0.50	18.03
High	2 462.00	18.53	0.50	18.03

Remark. Margin = Measured Value - Limit

8.7 Test data for 802.11ax_HE20 WLAN Mode

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	6 dB Bandwidth (MHz)	LIMIT (MHz)	Margin (MHz)
Low	2 412.00	18.58	0.50	18.08
Middle	2 437.00	18.53	0.50	18.03
High	2 462.00	18.53	0.50	18.03

Remark. Margin = Measured Value - Limit

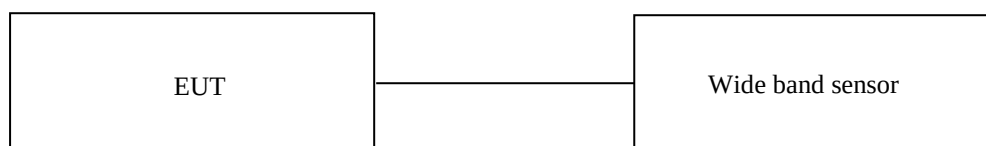
9. MAXIMUM CONDUCTED (AVERAGE) OUTPUT POWER

9.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

9.2 Test set-up

The maximum peak output power was measured with the wide band sensor connected to the antenna output of the EUT.
The Wide Band Sensor is measured when the EUT is transmitting at the appropriate center frequency its maximum power control level as described in Section 8.3(558074 D01 15.247 Meas Guidance v05r02).
Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.



9.3 Test Date

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9.4 Test data for 802.11b WLAN Mode

-. Test Result : Pass
-. Duty Cycle : > 98 %

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 412.00	5.93	30.00	24.07
MIDDLE	2 437.00	12.96	30.00	17.04
HIGH	2 462.00	6.71	30.00	23.29

Remark: Margin = Limit – Measured Value (=Power Sensor Reading + Cable Loss)

9.5 Test data for 802.11g WLAN Mode

-. Test Result : Pass

-. Duty Cycle : > 98 %

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 412.00	-0.04	30.00	30.04
MIDDLE	2 437.00	13.06	30.00	16.94
HIGH	2 462.00	1.75	30.00	28.25

Remark: Margin = Limit – Measured Value (=Power Sensor Reading + Cable Loss)

9.6 Test data for 802.11n_HT20 WLAN Mode

-. Test Result : Pass

-. Duty Cycle : > 98 %

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 412.00	-0.12	30.00	30.12
MIDDLE	2 437.00	13.02	30.00	16.98
HIGH	2 462.00	0.95	30.00	29.05

Remark 1: Margin = Limit – Measured Value (=Power Sensor Reading + Cable Loss)

9.7 Test data for 802.11ax_HE20 WLAN Mode

-. Test Result : Pass

-. Duty Cycle : > 98 %

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 412.00	-0.18	30.00	30.18
MIDDLE	2 437.00	12.96	30.00	17.04
HIGH	2 462.00	0.91	30.00	29.09

Remark: Margin = Limit – Total Value (=MEASURED VALUE + Cable Loss + Duty Factor)

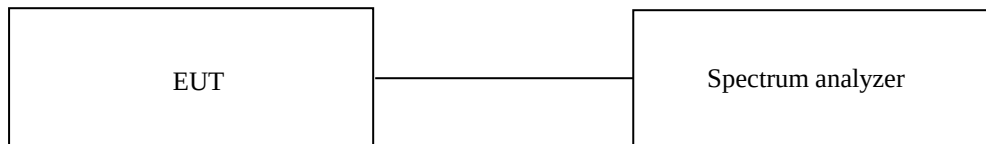
10. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

10.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

10.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



10.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

10.4 Test Date

November 03, 2025 ~ December 05, 2025

10.5 Test data

For Test data for Annex. Section

10.6 Test data for radiated emission

10.6.1 Radiated Emission which fall in the Restricted Band

10.6.1.1 Test data for 802.11b WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Channel 1 (2 412 MHz)											
2 389.84	63.84	Peak	H	27.40	5.54	46.98	6.18	-	55.98	74.00	18.02
2 386.98	58.23	Average	H	27.40	5.54	46.98	6.18	-	50.37	54.00	3.63
2 389.94	64.35	Peak	V	27.40	5.54	46.98	6.18	-	56.49	74.00	17.51
2 389.94	57.52	Average	V	27.40	5.54	46.98	6.18	-	49.66	54.00	4.34
Test Data for Channel 2 (2 417 MHz)											
2 390.00	63.36	Peak	H	27.40	5.54	46.98	6.18	-	55.50	74.00	18.50
2 390.00	58.74	Average	H	27.40	5.54	46.98	6.18	-	50.88	54.00	3.12
2 389.90	63.79	Peak	V	27.40	5.54	46.98	6.18	-	55.93	74.00	18.07
2 389.94	58.40	Average	V	27.40	5.54	46.98	6.18	-	50.54	54.00	3.46
Test Data for Channel 3 (2 422 MHz)											
2 389.83	62.16	Peak	H	27.40	5.54	46.98	6.18	-	54.30	74.00	19.70
2 389.72	56.65	Average	H	27.40	5.54	46.98	6.18	-	48.79	54.00	5.21
2 388.94	61.74	Peak	V	27.40	5.54	46.98	6.18	-	53.88	74.00	20.12
2 389.94	56.71	Average	V	27.40	5.54	46.98	6.18	-	48.85	54.00	5.15
Test Data for Channel 10 (2 457 MHz)											
2 483.52	62.44	Peak	H	27.40	5.54	46.98	6.18	-	54.58	74.00	19.42
2 483.48	57.52	Average	H	27.40	5.54	46.98	6.18	-	49.66	54.00	4.34
2 483.48	63.44	Peak	V	27.40	5.54	46.98	6.18	-	55.58	74.00	18.42
2 483.50	56.68	Average	V	27.40	5.54	46.98	6.18	-	48.82	54.00	5.18

Test Data for Channel 11 (2 462 MHz)											
2 483.92	62.86	Peak	H	27.40	5.54	46.98	6.18	-	55.00	74.00	19.00
2 483.50	57.29	Average	H	27.40	5.54	46.98	6.18	-	49.43	54.00	4.57
2 483.80	63.02	Peak	V	27.40	5.54	46.98	6.18	-	55.16	74.00	18.84
2 483.50	57.33	Average	V	27.40	5.54	46.98	6.18	-	49.47	54.00	4.53

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

10.6.1.2 Test data for 802.11g WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Channel 1 (2 412 MHz)											
2 389.63	70.10	Peak	H	27.40	5.54	46.98	6.18	-	62.24	74.00	11.76
2 390.00	59.26	Average	H	27.40	5.54	46.98	6.18	-	51.40	54.00	2.60
2 389.53	70.52	Peak	V	27.40	5.54	46.98	6.18	-	62.66	74.00	11.34
2 389.94	58.60	Average	V	27.40	5.54	46.98	6.18	-	50.74	54.00	3.26
Test Data for Channel 2 (2 417 MHz)											
2 388.41	70.98	Peak	H	27.40	5.54	46.98	6.18	-	63.12	74.00	10.88
2 390.00	58.61	Average	H	27.40	5.54	46.98	6.18	-	50.75	54.00	3.25
2 387.87	71.42	Peak	V	27.40	5.54	46.98	6.18	-	63.56	74.00	10.44
2 389.94	58.40	Average	V	27.40	5.54	46.98	6.18	-	50.54	54.00	3.46
Test Data for Channel 3 (2 422 MHz)											
2 390.00	68.45	Peak	H	27.40	5.54	46.98	6.18	-	60.59	74.00	13.41
2 390.00	58.28	Average	H	27.40	5.54	46.98	6.18	-	50.42	54.00	3.58
2 390.00	68.85	Peak	V	27.40	5.54	46.98	6.18	-	60.99	74.00	13.01
2 389.94	58.55	Average	V	27.40	5.54	46.98	6.18	-	50.69	54.00	3.31
Test Data for Channel 9 (2 452 MHz)											
2 486.21	71.32	Peak	H	27.40	5.54	46.98	6.18	-	63.46	74.00	10.54
2 483.72	58.24	Average	H	27.40	5.54	46.98	6.18	-	50.38	54.00	3.62
2 485.83	71.97	Peak	V	27.40	5.54	46.98	6.18	-	64.11	74.00	9.89
2 483.96	58.85	Average	V	27.40	5.54	46.98	6.18	-	50.99	54.00	3.01

Test Data for Channel 10 (2 457 MHz)											
2 486.44	70.65	Peak	H	27.40	5.54	46.98	6.18	-	62.79	74.00	11.21
2 483.88	58.79	Average	H	27.40	5.54	46.98	6.18	-	50.93	54.00	3.07
2 486.31	71.12	Peak	V	27.40	5.54	46.98	6.18	-	63.26	74.00	10.74
2 483.88	58.86	Average	V	27.40	5.54	46.98	6.18	-	51.00	54.00	3.00
Test Data for Channel 11 (2 462 MHz)											
2 483.88	71.38	Peak	H	27.40	5.54	46.98	6.18	-	63.52	74.00	10.48
2 483.50	58.76	Average	H	27.40	5.54	46.98	6.18	-	50.90	54.00	3.10
2 483.61	72.37	Peak	V	27.40	5.54	46.98	6.18	-	64.51	74.00	9.49
2 483.61	58.82	Average	V	27.40	5.54	46.98	6.18	-	50.96	54.00	3.04

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

10.6.1.3 Test data for 802.11n_HT20 WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Channel 1 (2 412 MHz)											
2 389.02	71.44	Peak	H	27.40	5.54	46.98	6.18	-	63.58	74.00	10.42
2 390.00	59.89	Average	H	27.40	5.54	46.98	6.18	-	52.03	54.00	1.97
2 388.89	71.80	Peak	V	27.40	5.54	46.98	6.18	-	63.94	74.00	10.06
2 389.74	60.01	Average	V	27.40	5.54	46.98	6.18	-	52.15	54.00	1.85
Test Data for Channel 2 (2 417 MHz)											
2 388.41	69.15	Peak	H	27.40	5.54	46.98	6.18	-	61.29	74.00	12.71
2 389.90	58.28	Average	H	27.40	5.54	46.98	6.18	-	50.42	54.00	3.58
2 389.15	69.39	Peak	V	27.40	5.54	46.98	6.18	-	61.53	74.00	12.47
2 390.00	58.30	Average	V	27.40	5.54	46.98	6.18	-	50.44	54.00	3.56
Test Data for Channel 3 (2 422 MHz)											
2 389.38	69.03	Peak	H	27.40	5.54	46.98	6.18	-	61.17	74.00	12.83
2 390.00	58.25	Average	H	27.40	5.54	46.98	6.18	-	50.39	54.00	3.61
2 389.05	69.42	Peak	V	27.40	5.54	46.98	6.18	-	61.56	74.00	12.44
2 390.00	58.77	Average	V	27.40	5.54	46.98	6.18	-	50.91	54.00	3.09
Test Data for Channel 8 (2 447 MHz)											
2 483.50	71.95	Peak	H	27.40	5.54	46.98	6.18	-	64.09	74.00	9.91
2 483.56	58.53	Average	H	27.40	5.54	46.98	6.18	-	50.67	54.00	3.33
2 483.61	72.23	Peak	V	27.40	5.54	46.98	6.18	-	64.37	74.00	9.63
2 483.77	58.72	Average	V	27.40	5.54	46.98	6.18	-	50.86	54.00	3.14

Test Data for Channel 9 (2 452 MHz)											
2 484.05	71.22	Peak	H	27.40	5.54	46.98	6.18	-	63.36	74.00	10.64
2 483.52	58.23	Average	H	27.40	5.54	46.98	6.18	-	50.37	54.00	3.63
2 483.86	72.16	Peak	V	27.40	5.54	46.98	6.18	-	64.30	74.00	9.70
2 483.76	58.71	Average	V	27.40	5.54	46.98	6.18	-	50.85	54.00	3.15
Test Data for Channel 10 (2 457 MHz)											
2 483.87	71.22	Peak	H	27.40	5.54	46.98	6.18	-	63.36	74.00	10.64
2 483.52	58.43	Average	H	27.40	5.54	46.98	6.18	-	50.57	54.00	3.43
2 483.61	72.42	Peak	V	27.40	5.54	46.98	6.18	-	64.56	74.00	9.44
2 483.58	58.81	Average	V	27.40	5.54	46.98	6.18	-	50.95	54.00	3.05
Test Data for Channel 11 (2 462 MHz)											
2 484.07	70.13	Peak	H	27.40	5.54	46.98	6.18	-	62.27	74.00	11.73
2 483.50	58.25	Average	H	27.40	5.54	46.98	6.18	-	50.39	54.00	3.61
2 483.69	72.16	Peak	V	27.40	5.54	46.98	6.18	-	64.30	74.00	9.70
2 483.50	58.62	Average	V	27.40	5.54	46.98	6.18	-	50.76	54.00	3.24

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

10.6.1.4 Test data for 802.11ax_HE20 WLAN Mode

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : > 98 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Channel 1 (2 412 MHz)											
2 388.61	71.36	Peak	H	27.40	5.54	46.98	6.18	-	63.50	74.00	10.50
2 388.20	59.66	Average	H	27.40	5.54	46.98	6.18	-	51.80	54.00	2.20
2 388.92	71.76	Peak	V	27.40	5.54	46.98	6.18	-	63.90	74.00	10.10
2 390.00	60.17	Average	V	27.40	5.54	46.98	6.18	-	52.31	54.00	1.69
Test Data for Channel 2 (2 417 MHz)											
2 388.09	69.15	Peak	H	27.40	5.54	46.98	6.18	-	61.29	74.00	12.71
2 389.90	57.96	Average	H	27.40	5.54	46.98	6.18	-	50.10	54.00	3.90
2 388.41	69.25	Peak	V	27.40	5.54	46.98	6.18	-	61.39	74.00	12.61
2 390.00	58.57	Average	V	27.40	5.54	46.98	6.18	-	50.71	54.00	3.29
Test Data for Channel 3 (2 422 MHz)											
2 389.61	68.71	Peak	H	27.40	5.54	46.98	6.18	-	60.85	74.00	13.15
2 389.94	58.57	Average	H	27.40	5.54	46.98	6.18	-	50.71	54.00	3.29
2 389.50	69.37	Peak	V	27.40	5.54	46.98	6.18	-	61.51	74.00	12.49
2 390.00	58.73	Average	V	27.40	5.54	46.98	6.18	-	50.87	54.00	3.13
Test Data for Channel 8 (2 447 MHz)											
2 483.61	68.55	Peak	H	27.40	5.54	46.98	6.18	-	60.69	74.00	13.31
2 483.66	58.40	Average	H	27.40	5.54	46.98	6.18	-	50.54	54.00	3.46
2 483.50	69.64	Peak	V	27.40	5.54	46.98	6.18	-	61.78	74.00	12.22
2 483.84	58.72	Average	V	27.40	5.54	46.98	6.18	-	50.86	54.00	3.14

Test Data for Channel 9 (2 452 MHz)											
2 483.68	69.98	Peak	H	27.40	5.54	46.98	6.18	-	62.12	74.00	11.88
2 483.58	58.32	Average	H	27.40	5.54	46.98	6.18	-	50.46	54.00	3.54
2 483.78	70.42	Peak	V	27.40	5.54	46.98	6.18	-	62.56	74.00	11.44
2 483.58	58.73	Average	V	27.40	5.54	46.98	6.18	-	50.87	54.00	3.13
Test Data for Channel 10 (2 457 MHz)											
2 483.74	68.05	Peak	H	27.40	5.54	46.98	6.18	-	60.19	74.00	13.81
2 483.52	58.21	Average	H	27.40	5.54	46.98	6.18	-	50.35	54.00	3.65
2 487.56	69.15	Peak	V	27.40	5.54	46.98	6.18	-	61.29	74.00	12.71
2 483.56	58.67	Average	V	27.40	5.54	46.98	6.18	-	50.81	54.00	3.19
Test Data for Channel 11 (2 462 MHz)											
2 483.54	70.13	Peak	H	27.40	5.54	46.98	6.18	-	62.27	74.00	11.73
2 483.84	58.78	Average	H	27.40	5.54	46.98	6.18	-	50.92	54.00	3.08
2 483.50	70.14	Peak	V	27.40	5.54	46.98	6.18	-	62.28	74.00	11.72
2 484.72	58.81	Average	V	27.40	5.54	46.98	6.18	-	50.95	54.00	3.05

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + Duty Factor

10.6.2 Spurious & Harmonic Radiated Emission

10.6.2.1 Test data for 802.11b WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Channel 1 (2 412 MHz)										
4 826.800	48.64	Peak	H	31.50	6.98	42.24	-	44.88	74.00	29.12
4 824.000	41.20	Average	H	31.50	6.98	42.24	-	37.44	54.00	16.56
4 823.900	58.92	Peak	V	31.50	6.98	42.24	-	55.16	74.00	18.84
4 833.590	36.92	Average	V	31.50	6.98	42.24	-	33.16	54.00	20.84
Test Data for Channel 2 (2 417 MHz)										
4 874.250	49.56	Peak	H	31.50	6.77	42.24	-	45.59	74.00	28.41
4 874.050	42.70	Average	H	31.50	6.77	42.24	-	38.73	54.00	15.27
4 873.950	55.15	Peak	V	31.50	6.77	42.24	-	51.18	74.00	22.82
4 874.000	51.64	Average	V	31.50	6.77	42.24	-	47.67	54.00	6.33
Test Data for Channel 3 (2 422 MHz)										
4 964.880	48.21	Peak	H	31.66	7.20	42.24	-	44.83	74.00	29.17
4 925.170	36.04	Average	H	31.55	6.77	42.24	-	32.12	54.00	21.88
4 954.190	48.20	Peak	V	31.62	7.20	42.24	-	44.78	74.00	29.22
4 944.400	36.10	Average	V	31.59	6.77	42.24	-	32.22	54.00	21.78
Test Data for Channel 6 (2 437 MHz)										
4 877.140	38.70	Peak	H	31.40	13.50	40.59	-	43.01	74.00	30.99
4 875.990	27.05	Average	H	31.40	13.50	40.59	-	31.36	54.00	22.64
4 881.540	38.34	Peak	V	31.40	13.50	40.59	-	42.65	74.00	31.35
4 873.800	27.57	Average	V	31.40	13.50	40.59	-	31.88	54.00	22.12

Test Data for Channel 10 (2 457 MHz)										
4 899.270	39.09	Peak	H	31.40	13.50	40.59	-	43.40	74.00	30.60
4 893.770	27.07	Average	H	31.40	13.50	40.59	-	31.38	54.00	22.62
4 910.900	38.86	Peak	V	31.40	13.50	40.59	-	43.17	74.00	30.83
4 914.050	26.95	Average	V	31.40	13.50	40.59	-	31.26	54.00	22.74
Test Data for Channel 11 (2 462 MHz)										
4 938.790	38.70	Peak	H	31.40	13.50	40.59	-	43.01	74.00	30.99
4 900.720	26.95	Average	H	31.40	13.50	40.59	-	31.26	54.00	22.74
4 911.060	39.02	Peak	V	31.40	13.50	40.59	-	43.33	74.00	30.67
4 924.050	28.82	Average	V	31.40	13.50	40.59	-	33.13	54.00	20.87

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

10.6.2.2 Test data for 802.11g WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Channel 1 (2 412 MHz)										
4 799.570	40.17	Peak	H	31.60	13.50	40.53	-	44.74	74.00	29.26
4 799.080	27.23	Average	H	31.50	13.50	40.53	-	31.70	54.00	22.30
4 799.480	40.24	Peak	V	31.60	13.50	40.53	-	44.81	74.00	29.19
4 835.940	27.39	Average	V	31.60	13.50	40.53	-	31.96	54.00	22.04
Test Data for Channel 2 (2 417 MHz)										
4 845.740	39.38	Peak	H	31.50	13.50	40.53	-	43.85	74.00	30.15
4 849.680	27.43	Average	H	31.50	13.50	40.53	-	31.90	54.00	22.10
4 812.370	39.23	Peak	V	31.50	13.50	40.53	-	43.70	74.00	30.30
4 850.430	27.34	Average	V	31.50	13.50	40.53	-	31.81	54.00	22.19
Test Data for Channel 3 (2 422 MHz)										
4 819.130	39.15	Peak	H	31.50	13.50	40.53	-	43.62	74.00	30.38
4 862.330	27.28	Average	H	31.50	13.50	40.53	-	31.75	54.00	22.25
4 844.400	39.65	Peak	V	31.50	13.50	40.53	-	44.12	74.00	29.88
4 853.090	27.27	Average	V	31.50	13.50	40.53	-	31.74	54.00	22.26
Test Data for Channel 6 (2 437 MHz)										
4 882.040	38.58	Peak	H	31.40	13.50	40.59	-	42.89	74.00	31.11
4 892.980	27.26	Average	H	31.40	13.50	40.59	-	31.57	54.00	22.43
4 869.150	39.66	Peak	V	31.40	13.50	40.59	-	43.97	74.00	30.03
4 867.300	27.22	Average	V	31.40	13.50	40.59	-	31.53	54.00	22.47

Test Data for Channel 9 (2 452 MHz)										
4 892.560	38.68	Peak	H	31.40	13.50	40.59	-	42.99	74.00	31.01
4 890.310	26.94	Average	H	31.40	13.50	40.59	-	31.25	54.00	22.75
4 895.510	38.53	Peak	V	31.40	13.50	40.59	-	42.84	74.00	31.16
4 880.620	27.02	Average	V	31.40	13.50	40.59	-	31.33	54.00	22.67
Test Data for Channel 10 (2 457 MHz)										
4 926.390	38.49	Peak	H	31.40	13.50	40.59	-	42.80	74.00	31.20
4 889.480	26.99	Average	H	31.40	13.50	40.59	-	31.30	54.00	22.70
4 901.410	39.04	Peak	V	31.40	13.50	40.59	-	43.35	74.00	30.65
4 905.860	26.78	Average	V	31.40	13.50	40.59	-	31.09	54.00	22.91
Test Data for Channel 11 (2 462 MHz)										
4 918.060	38.70	Peak	H	31.40	13.50	40.59	-	43.01	74.00	30.99
4 901.470	26.71	Average	H	31.40	13.50	40.59	-	31.02	54.00	22.98
4 918.410	38.45	Peak	V	31.40	13.50	40.59	-	42.76	74.00	31.24
4 900.370	26.79	Average	V	31.40	13.50	40.59	-	31.10	54.00	22.90

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

10.6.2.3 Test data for 802.11n_HT20 WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Channel 1 (2 412 MHz)										
4 809.810	38.87	Peak	H	31.60	13.50	40.53	-	43.44	74.00	30.56
4 817.360	27.27	Average	H	31.50	13.50	40.53	-	31.74	54.00	22.26
4 799.620	45.96	Peak	V	31.60	13.50	40.53	-	50.53	74.00	23.47
4 799.480	27.22	Average	V	31.60	13.50	40.53	-	31.79	54.00	22.21
Test Data for Channel 2 (2 417 MHz)										
4 840.490	39.14	Peak	H	31.50	13.50	40.53	-	43.61	74.00	30.39
4 849.190	27.23	Average	H	31.50	13.50	40.53	-	31.70	54.00	22.30
4 809.020	39.62	Peak	V	31.50	13.50	40.53	-	44.09	74.00	29.91
4 828.060	27.32	Average	V	31.50	13.50	40.53	-	31.79	54.00	22.21
Test Data for Channel 3 (2 422 MHz)										
4 867.730	39.87	Peak	H	31.50	13.50	40.53	-	44.34	74.00	29.66
4 823.620	27.30	Average	H	31.50	13.50	40.53	-	31.77	54.00	22.23
4 852.890	39.20	Peak	V	31.50	13.50	40.53	-	43.67	74.00	30.33
4 843.000	27.43	Average	V	31.50	13.50	40.53	-	31.90	54.00	22.10
Test Data for Channel 6 (2 437 MHz)										
4 851.670	38.68	Peak	H	31.40	13.50	40.59	-	42.99	74.00	31.01
4 868.900	27.37	Average	H	31.40	13.50	40.59	-	31.68	54.00	22.32
4 869.350	38.10	Peak	V	31.40	13.50	40.59	-	42.41	74.00	31.59
4 849.820	27.35	Average	V	31.40	13.50	40.59	-	31.66	54.00	22.34

Test Data for Channel 8 (2 447 MHz)										
4 877.470	38.92	Peak	H	31.40	13.50	40.59	-	43.23	74.00	30.77
4 894.300	26.97	Average	H	31.40	13.50	40.59	-	31.28	54.00	22.72
4 903.690	38.50	Peak	V	31.40	13.50	40.59	-	42.81	74.00	31.19
4 875.320	27.01	Average	V	31.40	13.50	40.59	-	31.32	54.00	22.68
Test Data for Channel 9 (2 452 MHz)										
4 887.720	38.61	Peak	H	31.40	13.50	40.59	-	42.92	74.00	31.08
4 880.220	26.93	Average	H	31.40	13.50	40.59	-	31.24	54.00	22.76
4 889.020	38.85	Peak	V	31.40	13.50	40.59	-	43.16	74.00	30.84
4 882.170	26.90	Average	V	31.40	13.50	40.59	-	31.21	54.00	22.79
Test Data for Channel 10 (2 457 MHz)										
4 893.870	38.31	Peak	H	31.40	13.50	40.59	-	42.62	74.00	31.38
4 889.520	26.66	Average	H	31.40	13.50	40.59	-	30.97	54.00	23.03
4 895.090	38.27	Peak	V	31.40	13.50	40.59	-	42.58	74.00	31.42
4 898.800	26.75	Average	V	31.40	13.50	40.59	-	31.06	54.00	22.94
Test Data for Channel 11 (2 462 MHz)										
4 942.030	39.03	Peak	H	31.40	13.50	40.59	-	43.34	74.00	30.66
4 899.380	26.88	Average	H	31.40	13.50	40.59	-	31.19	54.00	22.81
4 922.800	38.95	Peak	V	31.40	13.50	40.59	-	43.26	74.00	30.74
4 908.620	26.87	Average	V	31.40	13.50	40.59	-	31.18	54.00	22.82

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

10.6.2.4 Test data for 802.11ax_HE20 WLAN Mode

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : > 98 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Channel 1 (2 412 MHz)										
4 839.140	39.31	Peak	H	31.60	13.50	40.53	-	43.88	74.00	30.12
4 842.430	27.15	Average	H	31.50	13.50	40.53	-	31.62	54.00	22.38
4 800.370	47.36	Peak	V	31.60	13.50	40.53	-	51.93	74.00	22.07
4 841.180	27.32	Average	V	31.60	13.50	40.53	-	31.89	54.00	22.11
Test Data for Channel 2 (2 417 MHz)										
4 823.260	38.83	Peak	H	31.50	13.50	40.53	-	43.30	74.00	30.70
4 845.990	27.43	Average	H	31.50	13.50	40.53	-	31.90	54.00	22.10
4 833.400	39.32	Peak	V	31.50	13.50	40.53	-	43.79	74.00	30.21
4 856.280	27.25	Average	V	31.50	13.50	40.53	-	31.72	54.00	22.28
Test Data for Channel 3 (2 422 MHz)										
4 828.270	39.08	Peak	H	31.50	13.50	40.53	-	43.55	74.00	30.45
4 850.740	27.34	Average	H	31.50	13.50	40.53	-	31.81	54.00	22.19
4 837.510	39.45	Peak	V	31.50	13.50	40.53	-	43.92	74.00	30.08
4 850.790	27.40	Average	V	31.50	13.50	40.53	-	31.87	54.00	22.13
Test Data for Channel 6 (2 437 MHz)										
4 869.300	38.59	Peak	H	31.40	13.50	40.59	-	42.90	74.00	31.10
4 854.270	27.24	Average	H	31.40	13.50	40.59	-	31.55	54.00	22.45
4 867.150	38.23	Peak	V	31.40	13.50	40.59	-	42.54	74.00	31.46
4 871.650	27.29	Average	V	31.40	13.50	40.59	-	31.60	54.00	22.40

Test Data for Channel 8 (2 447 MHz)										
4 879.120	38.63	Peak	H	31.40	13.50	40.59	-	42.94	74.00	31.06
4 869.620	27.05	Average	H	31.40	13.50	40.59	-	31.36	54.00	22.64
4 890.150	39.36	Peak	V	31.40	13.50	40.59	-	43.67	74.00	30.33
4 870.770	26.99	Average	V	31.40	13.50	40.59	-	31.30	54.00	22.70
Test Data for Channel 9 (2 452 MHz)										
4 909.400	38.59	Peak	H	31.40	13.50	40.59	-	42.90	74.00	31.10
4 900.950	26.84	Average	H	31.40	13.50	40.59	-	31.15	54.00	22.85
4 892.610	38.89	Peak	V	31.40	13.50	40.59	-	43.20	74.00	30.80
4 887.770	26.99	Average	V	31.40	13.50	40.59	-	31.30	54.00	22.70
Test Data for Channel 10 (2 457 MHz)										
4 894.220	38.79	Peak	H	31.40	13.50	40.59	-	43.10	74.00	30.90
4 889.970	26.83	Average	H	31.40	13.50	40.59	-	31.14	54.00	22.86
4 894.670	38.84	Peak	V	31.40	13.50	40.59	-	43.15	74.00	30.85
4 894.620	26.89	Average	V	31.40	13.50	40.59	-	31.20	54.00	22.80
Test Data for Channel 11 (2 462 MHz)										
4 931.790	38.58	Peak	H	31.40	13.50	40.59	-	42.89	74.00	31.11
4 901.720	26.89	Average	H	31.40	13.50	40.59	-	31.20	54.00	22.80
4 940.580	38.85	Peak	V	31.40	13.50	40.59	-	43.16	74.00	30.84
4 900.520	26.75	Average	V	31.40	13.50	40.59	-	31.06	54.00	22.94

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

11. PEAK POWER SPECTRUL DENSITY

11.1 Operating environment

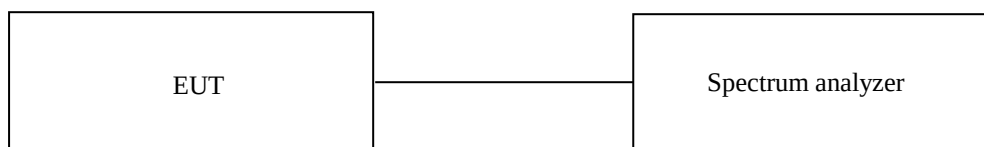
Temperature : 25 °C

Relative humidity : 45 % R.H.

11.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$, the video bandwidth is set to 3 times the resolution bandwidth.



11.3 Test Date

November 03, 2025 ~ December 05, 2025

11.4 Test data for 802.11b WLAN Mode

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-27.18	8.00	35.18
Middle	2 437.00	-20.14	8.00	28.14
High	2 462.00	-26.09	8.00	34.09

Remark. Margin = Limit – Measured value

11.5 Test data for 802.11g WLAN Mode

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-34.74	8.00	42.74
Middle	2 437.00	-21.65	8.00	29.65
High	2 462.00	-32.72	8.00	40.72

Remark. Margin = Limit – Measured value

11.6 Test data for 802.11n_HT20 WLAN Mode

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-32.56	0.00	-32.56
Middle	2 437.00	-19.61	0.00	-19.61
High	2 462.00	-31.53	0.00	-31.53

Remark 1: Margin = Limit – Measured value

11.7 Test data for 802.11ax_HE20 WLAN Mode

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-32.56	8.00	40.56
Middle	2 437.00	-19.61	8.00	27.61
High	2 462.00	-31.53	8.00	39.53

Remark. Margin = Limit – Total Value (Measured value + Cable loss + Duty Factor)

12. RADIATED EMISSION TEST

12.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

12.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

12.3 Test Date

November 03, 2025 ~ December 05, 2025

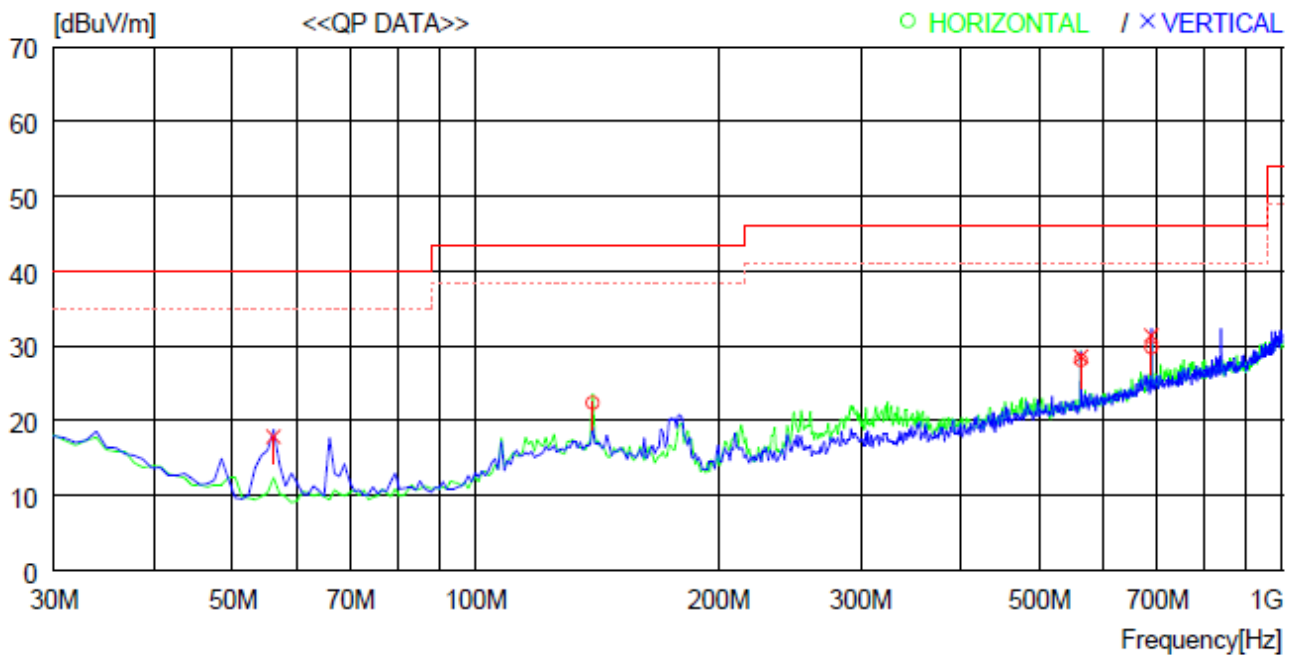
12.4 Test data for 30 MHz ~ 1 000 MHz

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : Josh Edge Base

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		QP	FACTOR							
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	139.610	33.3	19.4	1.7	32.0	22.4	43.5	21.1	300	259
2	562.529	33.1	23.8	3.5	32.3	28.1	46.0	17.9	300	234
3	687.655	32.7	25.4	4.0	32.3	29.8	46.0	16.2	200	0
----- Vertical -----										
4	56.190	36.2	12.6	1.1	32.0	17.9	40.0	22.1	100	137
5	562.529	33.6	23.8	3.5	32.3	28.6	46.0	17.4	100	0
6	687.655	34.3	25.4	4.0	32.3	31.4	46.0	14.6	100	0

12.5 Test data for Below 30 MHz

- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

12.6 Test data for above 1 GHz

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

13. CONDUCTED EMISSION TEST

13.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % R.H.

13.2 Test set-up

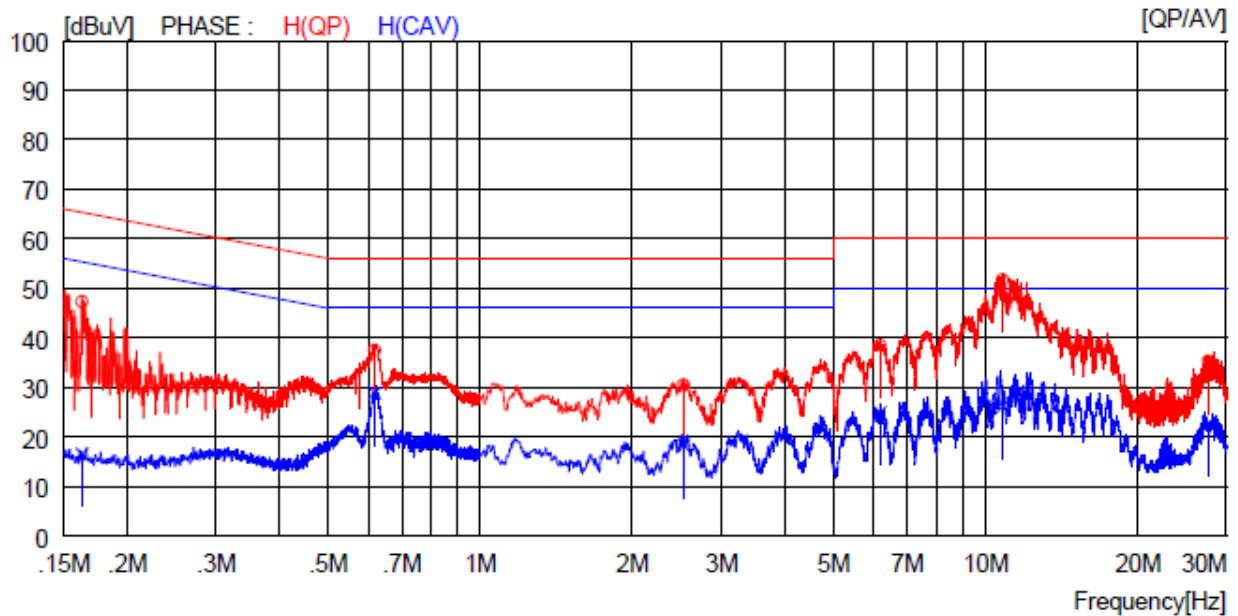
The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

13.3 Test Date

November 03, 2025 ~ December 05, 2025

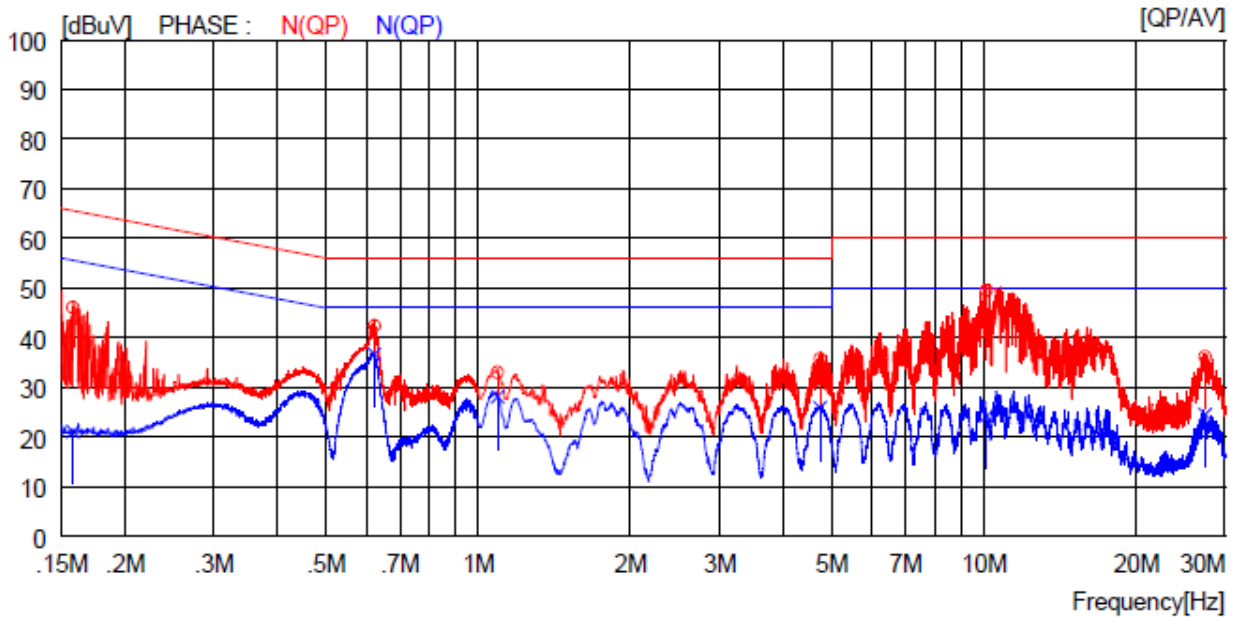
13.4 Test data

-. Resolution bandwidth : 9 kHz
 -. Frequency range : 0.15 MHz ~ 30 MHz
 -. Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16300	37.2	----	10.1	47.3	----	65.3	----	18.0	----	H (QP)
2	0.61800	27.4	----	10.1	37.5	----	56.0	----	18.5	----	H (QP)
3	2.52800	20.4	----	10.1	30.5	----	56.0	----	25.5	----	H (QP)
4	6.18000	28.2	----	10.3	38.5	----	60.0	----	21.5	----	H (QP)
5	10.81000	41.1	----	10.6	51.7	----	60.0	----	8.3	----	H (QP)
6	27.62000	23.8	----	11.5	35.3	----	60.0	----	24.7	----	H (QP)
7	0.16300	----	6.4	10.1	----	16.5	----	55.3	----	38.8	H (CAV)
8	0.61800	----	18.8	10.1	----	28.9	----	46.0	----	17.1	H (CAV)
9	2.52800	----	8.2	10.1	----	18.3	----	46.0	----	27.7	H (CAV)
10	6.18000	----	14.6	10.3	----	24.9	----	50.0	----	25.1	H (CAV)
11	10.81000	----	15.5	10.6	----	26.1	----	50.0	----	23.9	H (CAV)
12	27.62000	----	11.2	11.5	----	22.7	----	50.0	----	27.3	H (CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15800	36.0	----	10.1	46.1	----	65.6	----	19.5	----	N (QP)
2	0.62300	32.3	----	10.1	42.4	----	56.0	----	13.6	----	N (QP)
3	1.09200	22.9	----	10.1	33.0	----	56.0	----	23.0	----	N (QP)
4	4.74400	25.4	----	10.3	35.7	----	56.0	----	20.3	----	N (QP)
5	10.12000	39.0	----	10.5	49.5	----	60.0	----	10.5	----	N (QP)
6	27.39000	24.7	----	11.5	36.2	----	60.0	----	23.8	----	N (QP)
7	0.15800	----	11.0	10.1	----	21.1	----	55.6	----	34.5	N (CAV)
8	0.62300	----	26.5	10.1	----	36.6	----	46.0	----	9.4	N (CAV)
9	1.09200	----	18.0	10.1	----	28.1	----	46.0	----	17.9	N (CAV)
10	4.74400	----	15.6	10.3	----	25.9	----	46.0	----	20.1	N (CAV)
11	10.12000	----	13.7	10.5	----	24.2	----	50.0	----	25.8	N (CAV)
12	27.39000	----	13.0	11.5	----	24.5	----	50.0	----	25.5	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

14. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV30	Rohde & Schwarz	Signal Analyzer	101199	Jan. 13, 2025 (1Y)
ESU	Rohde & Schwarz	EMI Test Receiver	100261	Mar. 05, 2025 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 15, 2025 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 02, 2025 (1Y)
SCU40A	Rohde & Schwarz	Pre-Amplifier	100436	Jan. 15, 2025 (1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 13, 2025 (1Y)
FMZB 1519-60D	Schwarzbeck	Loop Antenna	00113	Jan. 07, 2025 (2Y)
HLP-2008	TDK	Hybrid Antenna	131313	Mar. 21, 2025 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1349	Jun. 27, 2025 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 04, 2025 (1Y)
ESCI	Rohde & Schwarz	EMI TEST RECEIVER	101012	Sep. 24, 2025 (1Y)
NSLK8126	Schwarzbeck	V - LISN (4*16/25A)	8126404	Mar. 11, 2025 (1Y)
ESH3-Z2	Rohde & Schwarz	PULSE LIMITER	100655	Mar. 11, 2025 (1Y)
DT3000	Innco System	Turn Table	DT3000/093	N/A
MA4000-EP	Innco System	Antenna Master	MA4000/332/27030611/L	N/A
CO3000	Innco System	Controller	CO3000/904/37211215/L	N/A