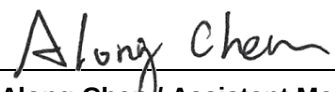


FCC Test Report

FCC ID : 2AX7S-ATC63E
Equipment : Tablet PC
Model No. : ATC63E
Brand Name : AIMobile
Applicant : AIMobile Co., Ltd.
Address : 6F, No. 166, Section 4, Chengde Road, Shilin District, Taipei City, 11167 Taiwan
Standard : 47 CFR FCC Part 15.407
Received Date : Jan. 07, 2022
Tested Date : Apr. 28 ~ May 26, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

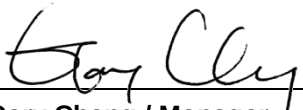

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR210701AN	Rev. 01	Initial issue	Aug. 17, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.410MHz 40.66 (Margin -6.98dB) - AV	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5470.00MHz 67.88 (Margin -0.32dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: 5150~5250MHz: 14.91 5250~5350MHz: 14.88 5470~5725MHz: 14.89 5725~5850MHz: 14.92	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

The EUT had six SKU options (SKU1, SKU2, SKU3, SKU1-2, SKU2-2 and SKU3-2). Six options were assessed and SKU2-2 was found to be worst case and was selected for the final testing.

1.1.1 SKU Details

The following SUKs are provided to this EUT.

SKU No.	SKU1	SKU2	SKU3	SKU1-2	SKU2-2	SKU3-2
SKU Description	Intel i3-1115G4E	Intel i5-1145G7E	Intel Celeron 6305E	Intel i3-1115G4E	Intel i5-1145G7E	Intel Celeron 6305E
	13.3"					
M/B	1310A3325001	1310A3325002	1310A3325003	1310A3325001	1310A3325002	1310A3325003
I/O Board	1310A3324701			1310A3388801		
	Audio Codec ALC256M			Audio Codec ALC888S		
Memory (LPDDR4)	Samsung 16GB			Samsung 16GB		
	M471A2K43EB1-CWE			M471A2K43EB1-CWE		
Storage (SSD)	Phison 1TB			Phison 1TB		
	PM81024GPKTCB5BINV-E13T4A			PM81024GPKTCB5BINV-E13T4A		
WLAN Module	Intel			Intel		
	AX210.NGWGII.NV			AX210.NGWGII.NV		
Note: The above SUK, SKU SKU2-2 was selected as a representative one for the final test and only its data was recorded in this report.						

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1 2	MCS 0-7 MCS 8-15
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [5] 151-159 [2]	1 2	MCS 0-7 MCS 8-15
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1 2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [5] 151-159 [2]	1 2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530-5610 5775	42 [1] 58 [1] 106-122 [2] 155 [1]	1 2	MCS 0-9
5150-5250 5250-5350 5470-5725	ac (VHT160)	5250 5250 5570	50 [1] 50 [1] 115 [1]	1 2	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1 2	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [5] 151-159 [2]	1 2	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE80)	5210 5290 5530-5610 5775	42 [1] 58 [1] 106-122 [2] 155 [1]	1 2	MCS 0-11
5150-5250 5250-5350 5470-5725	ax (HE160)	5250 5250 5570	50 [1] 50 [1] 115 [1]	1 2	MCS 0-11
Note 1: OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.					
Note 2: TPC function is not supported.					

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
					2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	AWAN	AYF6Y-100185	PIFA	UFL	2.55	2.62	2.62	2.82	2.82
2	AWAN	AYF6Y-100184	PIFA	UFL	2.68	2.32	2.54	2.76	2.83

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	19 Vdc from adapter 10.8 Vdc from battery
--------------------------	--

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	Adapter	Brand: FSP Model: FSP090-DBBN3 I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 19.0Vdc, 4.74A, 90.0W Power Line: AC: 1m non-shielded without core DC: 1.45m non-shielded with one core
2	Adapter	Brand: FSP Model: FSP090-RBBM1 I/P: 100-240Vac, 50-60Hz, 1.5-0.6A O/P: 19.0Vdc, 4.74A, 90.0W Power Line: AC: 1m non-shielded without core DC: 1.4m non-shielded with one core
3	Rechargeable Li-ion Battery	Model: ATC-63E-BAT Normal Voltage: 10.8Vdc Rating: 4660mAh (50.3Wh) Charge Voltage Limit: 12.6Vdc

Note: Two adapters (FSP090-DBBN3 and FSP090-RBBM1) had been covered during the pretest, and found that FSP090-DBBN3 adapter was the worst case and was selected for final test.

1.1.6 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	151	5755
108	5540	159	5795
112	5560	802.11ac VHT80 / ax HE80	
116	5580	42	5210
120	5600	58	5290
124	5620	106	5530
128	5640	122	5610
132	5660	155	5775
136	5680	802.11ac VHT160 / ax HE160	
140	5700	50	5250
149	5745	114	5570
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	DRTU, Version: V0.1032.22.130.0		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	98.58%	0.06
	ax HE20 FULL RB_1Tx	99.43%	0.02
	ax HE40 FULL RB_1Tx	99.64%	0.02
	ax HE80 FULL RB_1Tx	99.28%	0.03
	ax HE160 FULL RB_1Tx	99.64%	0.02
	ax HE20 FULL RB_2Tx	99.43%	0.02
	ax HE40 FULL RB_2Tx	99.64%	0.02
	ax HE80 FULL RB_2Tx	99.28%	0.03
	ax HE160 FULL RB_2Tx	99.64%	0.02

11ax Partial RU mode

Test Tool	DRTU, Version: V0.1032.22.130.0		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	ax HE20 RU_26_1Tx	95.34%	0.21
	ax HE20 RU_52_1Tx	96.31%	0.16
	ax HE20 RU_106_1Tx	98.09%	0.08
	ax HE40 RU_242_1Tx	99.67%	0.01
	ax HE80 RU_484_1Tx	99.74%	0.01
	ax HE160 RU_966_1Tx	99.46%	0.02
	ax HE20 RU_26_2Tx	95.10%	0.22
	ax HE20 RU_52_2Tx	97.60%	0.11
	ax HE20 RU_106_2Tx	99.77%	0.01
	ax HE40 RU_242_2Tx	99.74%	0.01
	ax HE80 RU_484_2Tx	99.74%	0.01
	ax HE160 RU_966_2Tx	99.46%	0.02

1.1.8 Power Index of Test Tool

1TX_Port 1		
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	14
11a	5200	14
11a	5240	14
11a	5260	14
11a	5300	14
11a	5320	14
11a	5500	14
11a	5580	14
11a	5700	14
11a	5745	14.5
11a	5785	14.5
11a	5825	14.5
ax HE20	5180	14
ax HE20	5200	14
ax HE20	5240	14
ax HE20	5260	13.5
ax HE20	5300	13.5
ax HE20	5320	13.5
ax HE20	5500	13
ax HE20	5580	13.5
ax HE20	5700	13.5
ax HE20	5745	13.5
ax HE20	5785	13.5
ax HE20	5825	13.5

Modulation Mode	Test Frequency (MHz)	Power Index
ax HE40	5190	13.5
ax HE40	5230	13.5
ax HE40	5270	13.5
ax HE40	5310	14
ax HE40	5510	13.5
ax HE40	5590	14
ax HE40	5670	14
ax HE40	5755	14
ax HE40	5795	14
ax HE80	5210	13.5
ax HE80	5290	13.5
ax HE80	5530	13.5
ax HE80	5610	13.5
ax HE80	5775	14
ax HE160	5250 (5.15-5.25GHz)	13.5
ax HE160	5250 (5.25-5.35GHz)	13.5
ax HE160	5570	13.5

1TX_Port 2		
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	14
11a	5200	14
11a	5240	14
11a	5260	14
11a	5300	14
11a	5320	14
11a	5500	14
11a	5580	14
11a	5700	14
11a	5745	14
11a	5785	14
11a	5825	14
ax HE20	5180	13.5
ax HE20	5200	13.5
ax HE20	5240	14
ax HE20	5260	14
ax HE20	5300	14
ax HE20	5320	14
ax HE20	5500	14
ax HE20	5580	14
ax HE20	5700	14.5
ax HE20	5745	13.5
ax HE20	5785	13.5
ax HE20	5825	13.5

Modulation Mode	Test Frequency (MHz)	Power Index
ax HE40	5190	14
ax HE40	5230	14
ax HE40	5270	14
ax HE40	5310	14
ax HE40	5510	14
ax HE40	5590	14
ax HE40	5670	14
ax HE40	5755	14
ax HE40	5795	14
ax HE80	5210	13.5
ax HE80	5290	13.5
ax HE80	5530	13.5
ax HE80	5610	13.5
ax HE80	5775	13.5
ax HE160	5250 (5.15-5.25GHz)	13
ax HE160	5250 (5.25-5.35GHz)	13
ax HE160	5570	13

2TX_Port 1 + Port 2		
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20	5180	11.5
ax HE20	5200	11.5
ax HE20	5240	11.5
ax HE20	5260	11.5
ax HE20	5300	11.5
ax HE20	5320	11.5
ax HE20	5500	11.5
ax HE20	5580	11.5
ax HE20	5700	11.5
ax HE20	5745	11
ax HE20	5785	11
ax HE20	5825	11
ax HE40	5190	11
ax HE40	5230	11
ax HE40	5270	11
ax HE40	5310	11
ax HE40	5510	11.5
ax HE40	5590	11.5
ax HE40	5670	11.5
ax HE40	5755	11.5
ax HE40	5795	11.5
ax HE80	5210	11
ax HE80	5290	11
ax HE80	5530	11
ax HE80	5610	11.5
ax HE80	5775	11
ax HE160	5250 (5.15-5.25GHz)	9
ax HE160	5250 (5.25-5.35GHz)	9
ax HE160	5570	9.5

11ax Partial RU mode

1TX_Port 1		
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20 RU_26	5180	13.5
ax HE20 RU_26	5200	13.5
ax HE20 RU_26	5240	13.5
ax HE20 RU_26	5260	13.5
ax HE20 RU_26	5300	13.5
ax HE20 RU_26	5320	13.5
ax HE20 RU_26	5500	13.5
ax HE20 RU_26	5580	14
ax HE20 RU_26	5700	14
ax HE20 RU_26	5745	13.5
ax HE20 RU_26	5785	13.5
ax HE20 RU_26	5825	13
ax HE20 RU_52	5180	13.5
ax HE20 RU_52	5200	13.5
ax HE20 RU_52	5240	13
ax HE20 RU_52	5260	13.5
ax HE20 RU_52	5300	13.5
ax HE20 RU_52	5320	13.5
ax HE20 RU_52	5500	13
ax HE20 RU_52	5580	13.5
ax HE20 RU_52	5700	13.5
ax HE20 RU_52	5745	13.5
ax HE20 RU_52	5785	13.5
ax HE20 RU_52	5825	13.5

1TX_Port 1		
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20 RU_106	5180	13.5
ax HE20 RU_106	5200	13.5
ax HE20 RU_106	5240	13
ax HE20 RU_106	5260	13.5
ax HE20 RU_106	5300	13.5
ax HE20 RU_106	5320	13.5
ax HE20 RU_106	5500	13
ax HE20 RU_106	5580	13.5
ax HE20 RU_106	5700	13.5
ax HE20 RU_106	5745	13.5
ax HE20 RU_106	5785	13.5
ax HE20 RU_106	5825	13.5
ax HE40 RU_242	5190	14
ax HE40 RU_242	5230	13.5
ax HE40 RU_242	5270	13.5
ax HE40 RU_242	5310	13.5
ax HE40 RU_242	5510	13.5
ax HE40 RU_242	5590	14
ax HE40 RU_242	5670	14
ax HE40 RU_242	5755	14
ax HE40 RU_242	5795	14
ax HE80 RU_484	5210	14
ax HE80 RU_484	5290	13.5
ax HE80 RU_484	5530	13.5
ax HE80 RU_484	5610	13.5
ax HE80 RU_484	5775	14
ax HE160 RU_966	5250 (5.15-5.25GHz)	11
ax HE160 RU_966	5250 (5.25-5.35GHz)	11
ax HE160 RU_966	5570	13.5

1TX_Port 1		
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20 RU_26	5180	14
ax HE20 RU_26	5200	14
ax HE20 RU_26	5240	14
ax HE20 RU_26	5260	14
ax HE20 RU_26	5300	14
ax HE20 RU_26	5320	14
ax HE20 RU_26	5500	14
ax HE20 RU_26	5580	14
ax HE20 RU_26	5700	14
ax HE20 RU_26	5745	13.5
ax HE20 RU_26	5785	13.5
ax HE20 RU_26	5825	13.5
ax HE20 RU_52	5180	13.5
ax HE20 RU_52	5200	13.5
ax HE20 RU_52	5240	13.5
ax HE20 RU_52	5260	13.5
ax HE20 RU_52	5300	13.5
ax HE20 RU_52	5320	13.5
ax HE20 RU_52	5500	13
ax HE20 RU_52	5580	13
ax HE20 RU_52	5700	13.5
ax HE20 RU_52	5745	13.5
ax HE20 RU_52	5785	13.5
ax HE20 RU_52	5825	13.5

1TX_Port 1		
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20 RU_106	5180	13.5
ax HE20 RU_106	5200	13.5
ax HE20 RU_106	5240	13.5
ax HE20 RU_106	5260	13.5
ax HE20 RU_106	5300	13.5
ax HE20 RU_106	5320	13.5
ax HE20 RU_106	5500	13.5
ax HE20 RU_106	5580	13.5
ax HE20 RU_106	5700	13.5
ax HE20 RU_106	5745	13.5
ax HE20 RU_106	5785	13.5
ax HE20 RU_106	5825	13.5
ax HE40 RU_242	5190	13.5
ax HE40 RU_242	5230	13.5
ax HE40 RU_242	5270	13.5
ax HE40 RU_242	5310	13.5
ax HE40 RU_242	5510	13.5
ax HE40 RU_242	5590	13.5
ax HE40 RU_242	5670	13.5
ax HE40 RU_242	5755	13.5
ax HE40 RU_242	5795	13.5
ax HE80 RU_484	5210	14
ax HE80 RU_484	5290	13.5
ax HE80 RU_484	5530	13.5
ax HE80 RU_484	5610	13.5
ax HE80 RU_484	5775	13.5
ax HE160 RU_966	5250 (5.15-5.25GHz)	11
ax HE160 RU_966	5250 (5.25-5.35GHz)	11
ax HE160 RU_966	5570	13.5

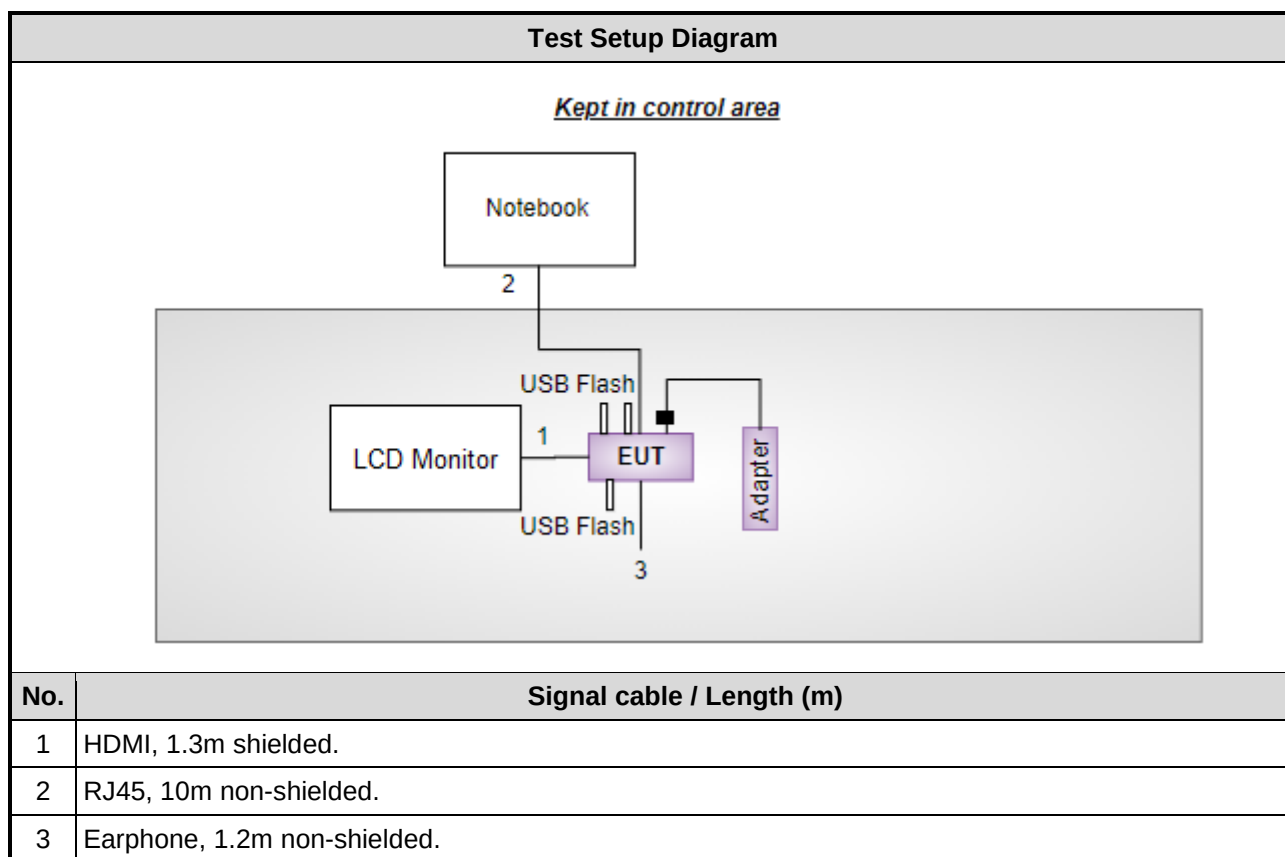
1TX_Port 1		
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20 RU_26	5180	11
ax HE20 RU_26	5200	11
ax HE20 RU_26	5240	11
ax HE20 RU_26	5260	11
ax HE20 RU_26	5300	11
ax HE20 RU_26	5320	11
ax HE20 RU_26	5500	11
ax HE20 RU_26	5580	11
ax HE20 RU_26	5700	11
ax HE20 RU_26	5745	11
ax HE20 RU_26	5785	11
ax HE20 RU_26	5825	11
ax HE20 RU_52	5180	10.5
ax HE20 RU_52	5200	10.5
ax HE20 RU_52	5240	10.5
ax HE20 RU_52	5260	10.5
ax HE20 RU_52	5300	10.5
ax HE20 RU_52	5320	10.5
ax HE20 RU_52	5500	10
ax HE20 RU_52	5580	10
ax HE20 RU_52	5700	10.5
ax HE20 RU_52	5745	10
ax HE20 RU_52	5785	10.5
ax HE20 RU_52	5825	10.5

1TX_Port 1		
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE20 RU_106	5180	11
ax HE20 RU_106	5200	10
ax HE20 RU_106	5240	10
ax HE20 RU_106	5260	10
ax HE20 RU_106	5300	10
ax HE20 RU_106	5320	10
ax HE20 RU_106	5500	10
ax HE20 RU_106	5580	10
ax HE20 RU_106	5700	10
ax HE20 RU_106	5745	10.5
ax HE20 RU_106	5785	10
ax HE20 RU_106	5825	10
ax HE40 RU_242	5190	10
ax HE40 RU_242	5230	10
ax HE40 RU_242	5270	10
ax HE40 RU_242	5310	10
ax HE40 RU_242	5510	10
ax HE40 RU_242	5590	10
ax HE40 RU_242	5670	10.5
ax HE40 RU_242	5755	10.5
ax HE40 RU_242	5795	10.5
ax HE80 RU_484	5210	10.5
ax HE80 RU_484	5290	10.5
ax HE80 RU_484	5530	10.5
ax HE80 RU_484	5610	10.5
ax HE80 RU_484	5775	10.5
ax HE160 RU_966	5250 (5.15-5.25GHz)	6
ax HE160 RU_966	5250 (5.25-5.35GHz)	6
ax HE160 RU_966	5570	9.5

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	USB Flash	pqi(USB 3.1 Type-C)	Connect 313/16GB	---	---
3	USB Flash	Transcend(USB 3.0)	JetFlash 700	---	---
4	USB Flash	Transcend(USB 3.0)	JetFlash 700	---	---
5	Earphone	Samsung	EHS64	---	---
6	LCD Monitor	ASUS(27")	MX27UCS	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	May 16, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	May 04 ~ May 16, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Apr. 28 ~ May 26, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GTH-150-40-CP-AR-T	MAA1407-012	Sep. 08, 2021	Sep. 07, 2022
DC POWER SOURCE	GW INSTRUK	GPC-6030D	GES855395	Nov. 08, 2021	Nov. 07, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10.7.20	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	ax HE20	5200	MCS 0	2
Unwanted Emissions ≤1GHz	11a	5200	6 Mbps	2
Unwanted Emissions ≤1GHz	ax HE20	5200	MCS 0	3
Unwanted Emissions >1GHz	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	2
	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	2, 3
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	2, 3
	ax HE80	5210 / 5290 / 5530 / 5610	MCS 0	2, 3
	ax HE160	5250 / 5570	MCS 0	2, 3
Conducted Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1, 2
	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	1, 2, 3
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	1, 2, 3
	ax HE80	5210 / 5290 / 5530 / 5610	MCS 0	1, 2, 3
	ax HE160	5250 / 5570	MCS 0	1, 2, 3
Emission Bandwidth Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	2
	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	2, 3
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	2, 3
	ax HE80	5210 / 5290 / 5530 / 5610	MCS 0	2, 3
	ax HE160	5250 / 5570	MCS 0	2, 3
Frequency Stability	Un-modulation	5320	---	1
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report. 2. The device supports diversity function that listed as below: 1) Configuration 1: 1Tx, port 1, AYF6Y-100184 antenna 2) Configuration 2: 1Tx, port 2, AYF6Y-100185 antenna 3) Configuration 3: 2Tx, port 1 + 2, AYF6Y-100184 + AYF6Y-100185 antenna				

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	ax HE20	5785	MCS 0	2
Unwanted Emissions ≤1GHz	11a	5785	6 Mbps	2
Unwanted Emissions ≤1GHz	ax HE20	5785	MCS 0	3
Unwanted Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	2
	ax HE20	5745 / 5785 / 5825	MCS 0	2, 3
	ax HE40	5755 / 5795	MCS 0	2, 3
	ax HE80	5775	MCS 0	2, 3
Conducted Output Power	11a	5745 / 5785 / 5825	6 Mbps	1, 2
	ax HE20	5745 / 5785 / 5825	MCS 0	1, 2, 3
	ax HE40	5755 / 5795	MCS 0	1, 2, 3
	ax HE80	5775	MCS 0	1, 2, 3
Emission Bandwidth 6dB bandwidth Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	2
	ax HE20	5745 / 5785 / 5825	MCS 0	2, 3
	ax HE40	5755 / 5795	MCS 0	2, 3
	ax HE80	5775	MCS 0	2, 3
Frequency Stability	Un-modulation	5785	---	1
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report. 2. The device supports diversity function that listed as below: 1) Configuration 1: 1Tx, port 1, AYF6Y-100184 antenna 2) Configuration 2: 1Tx, port 2, AYF6Y-100185 antenna 3) Configuration 3: 2Tx, port 1 + 2, AYF6Y-100184 + AYF6Y-100185 antenna				

11ax Partial RU mode

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	ax HE20_RU26	5200	MCS 0	2
Unwanted Emissions ≤1GHz	ax HE20_RU26	5200	MCS 0	2
Unwanted Emissions ≤1GHz	ax HE20_RU26	5785	MCS 0	3
Unwanted Emissions >1GHz	ax HE20 RU26	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	2, 3
	ax HE20 RU52		MCS 0	
	ax HE20 RU106		MCS 0	
	ax HE40 RU242	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	ax HE80 RU484	5210 / 5290 / 5530 / 5610	MCS 0	
	ax HE160 RU 966	5250 / 5570	MCS 0	
Conducted Output Power	ax HE20 RU26	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	1, 2, 3
	ax HE20 RU52		MCS 0	
	ax HE20 RU106		MCS 0	
	ax HE40 RU242	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	ax HE80 RU484	5210 / 5290 / 5530 / 5610	MCS 0	
	ax HE160 RU 966	5250 / 5570	MCS 0	
Emission Bandwidth Power Spectral Density	ax HE20 RU26	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	2, 3
	ax HE20 RU52		MCS 0	
	ax HE20 RU106		MCS 0	
	ax HE40 RU242	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	ax HE80 RU484	5210 / 5290 / 5530 / 5610	MCS 0	
	ax HE160 RU 966	5250 / 5570	MCS 0	
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.				
2. The device supports diversity function that listed as below:				
1) Configuration 1: 1Tx, port 1, AYF6Y-100184 antenna				
2) Configuration 2: 1Tx, port 2, AYF6Y-100185 antenna				
3) Configuration 3: 2Tx, port 1 + 2, AYF6Y-100184 + AYF6Y-100185 antenna				

Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	ax HE20 RU26	5785	MCS 0	2
Unwanted Emissions ≤1GHz	ax HE20_RU26	5200	MCS 0	2
Unwanted Emissions ≤1GHz	ax HE20_RU26	5785	MCS 0	3
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	ax HE20 RU26	5745 / 5785 / 5825	MCS 0	2, 3
	ax HE20 RU52		MCS 0	
	ax HE20 RU106		MCS 0	
	ax HE40 RU242	5755 / 5795	MCS 0	
	ax HE80 RU484	5775	MCS 0	
Conducted Output Power	ax HE20 RU26	5745 / 5785 / 5825	MCS 0	1, 2, 3
	ax HE20 RU52		MCS 0	
	ax HE20 RU106		MCS 0	
	ax HE40 RU242	5755 / 5795	MCS 0	
	ax HE80 RU484	5775	MCS 0	
Emission Bandwidth Power Spectral Density	ax HE20 RU26	5745 / 5785 / 5825	MCS 0	2, 3
	ax HE20 RU52		MCS 0	
	ax HE20 RU106		MCS 0	
	ax HE40 RU242	5755 / 5795	MCS 0	
	ax HE80 RU484	5775	MCS 0	
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.				
2. The device supports diversity function that listed as below:				
1) Configuration 1: 1Tx, port 1, AYF6Y-100184 antenna				
2) Configuration 2: 1Tx, port 2, AYF6Y-100185 antenna				
3) Configuration 3: 2Tx, port 1 + 2, AYF6Y-100184 + AYF6Y-100185 antenna				

3 Transmitter Test Results

3.1 Emission Bandwidth

3.1.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.1.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

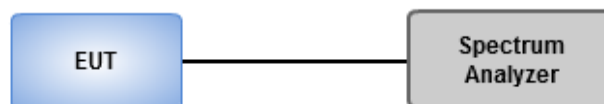
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW $\geq$ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	22~24°C / 63~67%	Tested By	Aska Huang
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☐	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☒	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B EIRP < = 500 mW *TPC mechanism is not supported.
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B EIRP < = 500 mW *TPC mechanism is not supported.
☒	5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.		

3.2.2 Test Procedures

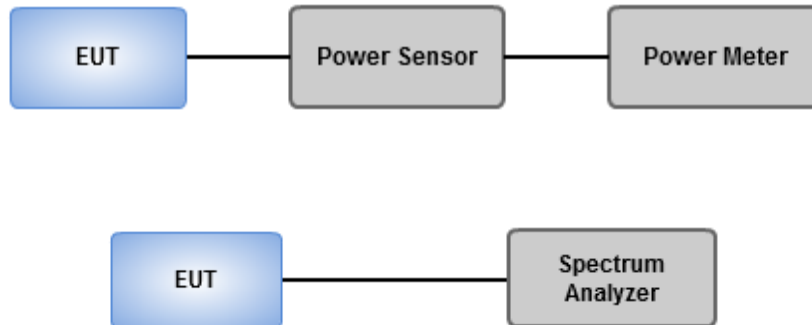
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (BW: 160 MHz, 5250MHz)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%).

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	22~24°C / 63~67%	Tested By	Aska Huang
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Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	17 dBm / MHz
☐	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☒	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☒	5725 ~ 5850	30 dBm /500 kHz

3.3.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle $\geq 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

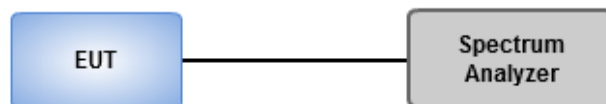
Duty cycle $\geq 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	22~24°C / 63~67%	Tested By	Aska Huang
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Refer to Appendix C.

3.4 Unwanted Emissions

3.4.1 Limit of Unwanted Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	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.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.4.2 Test Procedures

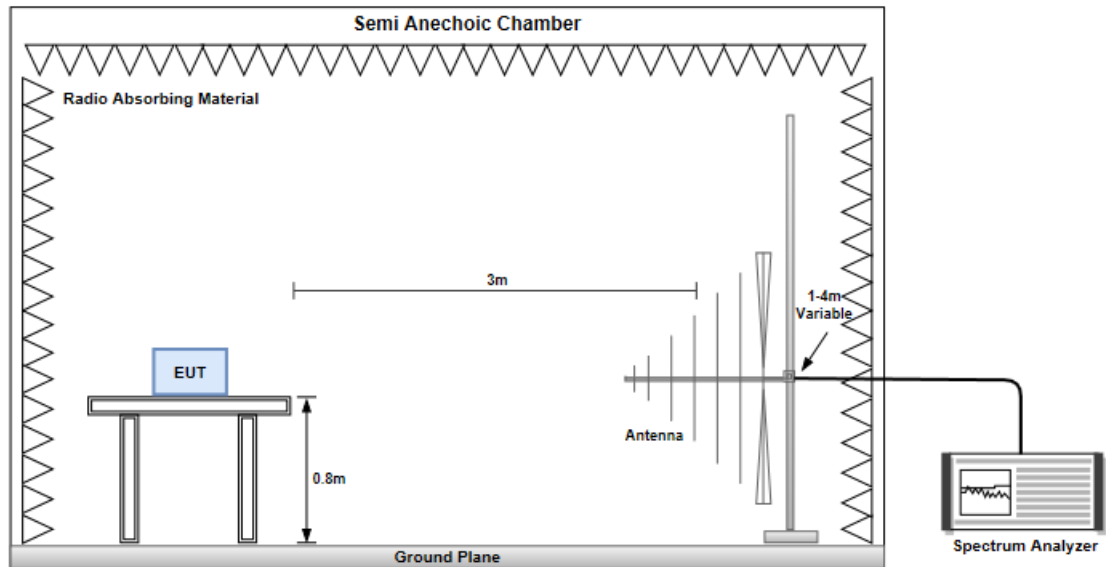
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

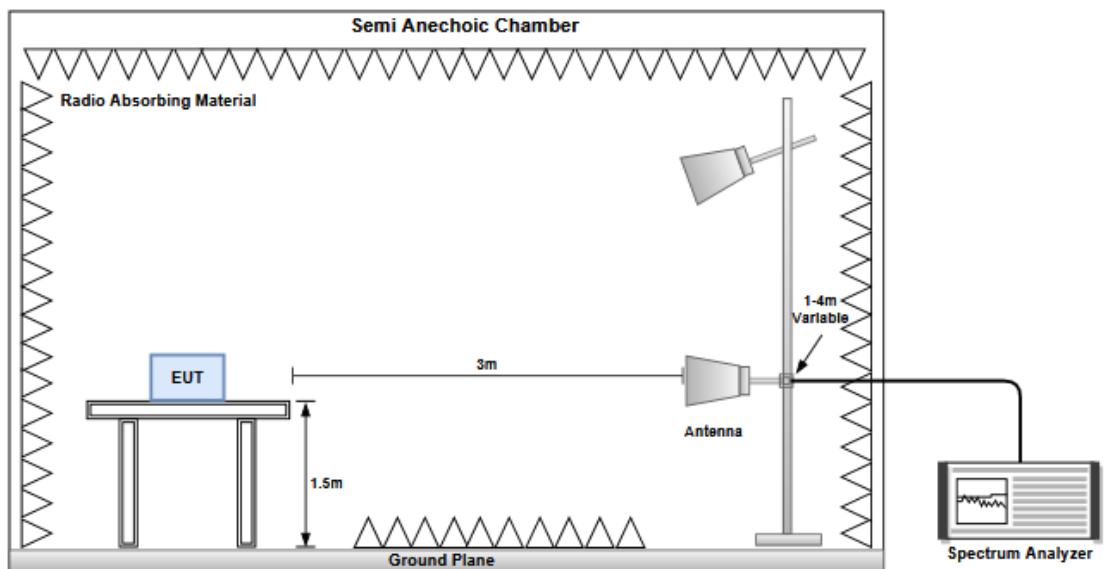
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Unwanted Emissions below 1 GHz



Unwanted Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Frequency Stability

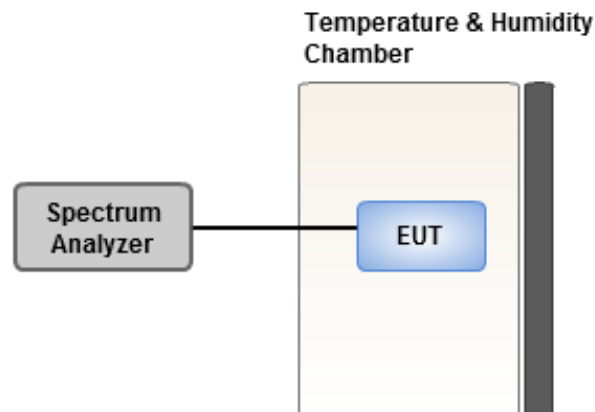
3.5.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.5.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	22~24°C / 63~67%	Tested By	Aska Huang
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

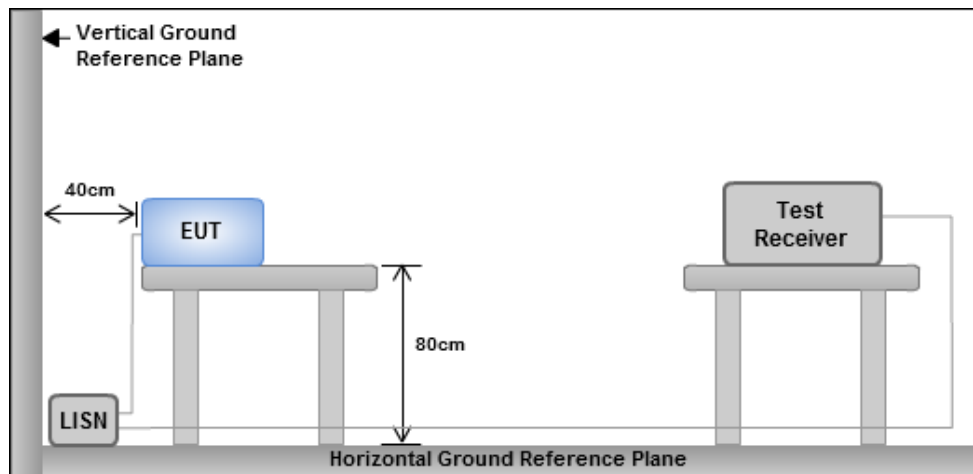
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

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St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==