

FCC 15.247 & RSS-247 2.4GHz Test Report

for

LG Electronics Inc.

**222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do,
17709 Republic of Korea**

Product Name : Notebook Computer
Model Name : (1)16Z95U (2)16ZD95U (3)16ZB95U (4)16ZG95U
Brand : LG
FCC ID : 2BO3L-16Z95U
IC : 2703H-16Z95U



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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APPENDIX A TEST DATA AND PLOTS

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TEST REPORT

Applicant : LG Electronics Inc.
EUT Description
(1) Product : Notebook Computer
(2) Model : (1)16Z95U (2)16ZD95U (3)16ZB95U (4)16ZG95U
(3) Brand : LG
(4) Power Supply : DC 20V, 3.25A

Applicable Standards:

Title 47 CFR FCC Part 15 Subpart C
RSS-Gen (Issue 5) +A2, February 2021
RSS-247 (Issue 3), August 2023

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2025. 11. 07

Reviewed by: Sabrina Wang (Sabrina Wang/Administrator)

Approved by: Johnny Hsueh (Johnny Hsueh/Deputy Manager)



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2025. 11. 07	Original Report	EM-F250597

2. SUMMARY OF TEST RESULTS

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §8.8	Conducted Emission	PASS
15.247(d)/ 15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	RSS-247 §5.2(1)	DTS/Occupied Bandwidth	PASS
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output Power	PASS
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	PASS
15.203	---	Antenna Requirement	Compliance
Note: The uncertainties value is not used in determining the result.			

3. GENERAL INFORMATION

The EUT's information described in this section are all provided by the applicant.

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709 Republic of Korea
Product	Notebook Computer
Brand	LG
Model	(1)16Z95U (2)16ZD95U (3)16ZB95U (4)16ZG95U The difference between all models is different in the sales customers and color difference. Note: Model (1)16Z95U (2)16ZD95U (3)16ZB95U is for ISED application.

3.2. Description of EUT

Test Model	16Z95U		
Serial Number	N/A		
Power Rating	DC 20V, 3.25A		
Software Version	XY (X, Y can be 0 to 9 for different SW version not influence RF parameter)		
RF Features	WLAN: 802.11 a/b/g/n/ac/ax/be Bluetooth: BT and BLE (BT5.4)		
Transmit Type	2.4 GHz Bands		
	802.11b	1T1R	
	802.11g	1T1R	
	802.11n-HT20/40	2T2R	
	802.11ax-HE20/40	2T2R	
	802.11be-EHT20/40	2T2R	
	BT/BLE	1T1R	
	U-NII Bands		
	802.11a	1T1R	
	802.11n-HT20/40	2T2R	
	802.11ac-VHT20/40/80/160	2T2R	
	802.11ax-HE20/40/80/160	2T2R	
	802.11be-EHT20/40/80/160	2T2R	
	WLAN 6E Bands		
	802.11a	1T1R	
	802.11ax-HE20/40/80/160	2T2R	
	802.11be-EHT20/40/80/160	2T2R	
	The MIMO is uncorrelated and supported SDM (Spatial Division Multiplexing) mode only. This radio device doesn't support beamforming and Cyclic Delay Diversity (CDD).		
Sample Status	Trial sample		
Test Sample	Sample No.	Test Item	Firmware
	01	AC Conduction, RSE, RF Conducted	N/A
Date of Receipt	2025. 08. 15		
Date of Test	2025. 09. 22 ~ 10. 28		
Interface Ports of EUT	• One HDMI Port • Two USB Type C Ports • One Earphone Port • Two USB 3.0 Ports		
Accessories Supplied	• AC Adapter • USB C Cable • LAN Gender		

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

3.3. Reference Test Guidance

ANSI C63.10-2020 & ANSI C63.10-2020 + Cor.1-2023
KDB 662911 D01 Multiple Transmitter Output v02r01

3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)	
					Main	AUX
1.	WA-P-LELE-04-086	INPAQ	Mono-pole Type (PCB)	2400~2500	2.15	2.00
				5150~5350	-1.14	-0.60
				5470~5725	0.11	1.41
				5725~5900	1.55	1.92
				5925~6425	0.13	1.18
				6425~6525	2.84	-0.51
				6525~6875	2.84	-0.51
				6875~7125	0.47	0.91
According to KDB 662911 D01 d) i), transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/N_{ANT}]$ dBi Note 1. 2.4G: Directional gain = 2400~2500MHz: Directional gain = $10 \log[(10^{2.15/20} + 10^{2.0/20})^2/2] = 2.08$ dBi Note 2. 5G: Directional gain = 5150 ~ 5350MHz: = $10 \log[(10^{-1.14/20} + 10^{-0.6/20})^2/2] = -0.86$ dBi 5725 ~ 5900MHz: = $10 \log[(10^{1.55/10} + 10^{1.92/10})^2/2] = 1.74$ dBi Note 3. UNII Band (WLAN 6G): 5925~6425MHz: Directional gain = $10 \log[(10^{0.13/20} + 10^{1.18/20})^2/2] = 0.69$ dBi 6425~6525MHz: Directional gain = $10 \log[(10^{2.84/20} + 10^{-0.51/20})^2/2] = 1.48$ dBi 6525~6875MHz: Directional gain = $10 \log[(10^{2.84/20} + 10^{-0.51/20})^2/2] = 1.48$ dBi 6875~7125MHz: Directional gain = $10 \log[(10^{0.47/20} + 10^{0.91/20})^2/2] = 0.7$ dBi						

3.5. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2472	13	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		13	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				Up to 144.4
802.11n-HT40	2422-2462	9	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 300
802.11ax-HE20	2412-2472	13	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/ 1024QAM)	Up to 287
802.11ax-HE40	2422-2462	9		Up to 574
802.11be-EHT20	2412-2472	13	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/ 1024QAM/ 4096QAM)	Up to 344
802.11be-EHT40	2422-2462	9		Up to 688
BLE	2402-2480	40	GFSK (1Mbps, 2Mbps, PHY Coded S8, PHY Coded S2)	Up to 2

Channel List			
802.11 b/g/n-HT20/ax-HE20/be-EHT20		802.11n-HT40/ax-HE40/be-EHT40	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	10	2457
9	2452	11	2462
10	2457		
11	2462		
12	2467		
13	2472		

Channel List							
BLE							
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
37	2402	09	2422	18	2442	28	2462
00	2404	10	2424	19	2444	29	2464
01	2406	38	2426	20	2446	30	2466
02	2408	11	2428	21	2448	31	2468
03	2410	12	2430	22	2450	32	2470
04	2412	13	2432	23	2452	33	2472
05	2414	14	2434	24	2454	34	2474
06	2416	15	2436	25	2456	35	2476
07	2418	16	2438	26	2458	36	2478
08	2420	17	2440	27	2460	39	2480

3.6. Description of Key Components

3.6.1. For the All Component Lists

Item	Supplier	Model / Type	Character
System	Microsoft	Win10 Home / Pro	---
		Win11 Home / Pro	---
Main Board	LG	1xZ95U MAIN B/D	Manufacturer: #1 Hannstar Board Tech (Jiang Yin) Corp., Ltd. #2 Elec&Eltek Company (MCO) Limited. #3 Changzhou Aohong Electronics Co., Ltd.
SUB Board	LG	16Z90U/95U SUB B/D	Manufacturer: #1 Hannstar Board Tech (Jiang Yin) Corp., Ltd. #2 Elec&Eltek Company (MCO) Limited. #3 Changzhou Aohong Electronics Co., Ltd.
CPU	AMD	Ryzen 7 450	2.0GHz/5.1GHz
(Socket: BGA1270)	AMD	Ryzen 5 435	2.0GHz/4.5GHz
16" LCD Panel	LG Display	LP160WQ2	Resolution: 2560 x 1600, 144Hz (WQXGA)
16" OLED Panel	SAMSUNG DISPLAY	ATNA60HR10	Resolution: 2880 x 1800, 120Hz (WQXGA)
Storage (SSD)	Phison	---	256GB / 512GB / 1TB
	SAMSUNG	---	256GB / 512GB / 1TB
	LONGSYS	---	256GB / 512GB / 1TB
	SK Hynix	---	256GB / 512GB / 1TB
Memory (RAM)	LONGSYS	---	16GB / 32GB LPDDR5x(On Board)
	SAMSUNG	---	16GB / 32GB LPDDR5x(On Board)
	SK Hynix	---	16GB / 32GB LPDDR5x(On Board)
Battery Pack	LGES	LB3122MM	77Wh, DC 15.52V, 4963mAh
	BYD	LB3122MN	77Wh, DC 15.52V, 4963mAh
WLAN Combo Card	GSD (MTK)	WET10M2103 (MT7925)	WLAN and BT, 2x2 module FCC ID: RAS-MT7925B14L IC: 7425A-MT7925B14L
WLAN Combo Antenna	LG (INPAQ)	WA-P-LELE-04-086	PCB, Mono-pole Type Main/Aux
Keyboard	LITE-ON	SN8E03B	---
	TIC	KT0122L	---
Touch Pad	LITE-ON	SP8B00B31(SG-A0660-00A)	---
	ELAN	SD082A-34H0	---
Web Camera	Luxvisions	ABG213N3x	x: A~Z; 0~9
	Chicony	CKFPE28	---
LAN Gender (Type C to LAN)	SUZHOU MEC ELECTRONICS	80-5946-111	(White) 10/100 Megabit Ethernet
		80-5946-101	(Black) 10/100 Megabit Ethernet
	ARIN TECH CO. LTD	GD-08MF-36-WH-LP10	(White) 10/100 Megabit Ethernet
		GD-08MF-36-BK-LP11	(Black) 10/100 Megabit Ethernet
	HUIZHOU DEHONG TECHNOLOGY CO.,LTD.	370-50713	(White) 10/100 Megabit Ethernet
		370-50714	(Black) 10/100 Megabit Ethernet
	ARIN TECH CO. LTD	GD-08MF-50-WH-LP12	(White) 10/100/1000 Megabit Ethernet
		GD-08MF-50-BK-LP13	(Black) 10/100/1000 Megabit Ethernet
	SUZHOU MEC ELECTRONICS	80-5946-230-FA	(White) 10/100/1000 Megabit Ethernet
		80-5946-240-FA	(Black) 10/100/1000 Megabit Ethernet
	Type C to LAN: Shielded, Undetached		
AC Adapter	LG (PI ELECTRONICS)	LP65WFC20P-NJ	(B = Black), (W = White) I/P: AC 100-240V, 1.6A, 50-60Hz O/P: DC 5V, 3A(15W) or DC 9V, 3A(27W) or DC 15V, 3A (45W) or DC 20V, 3.25A (65W) US Type: Wall-Mounted: (2C)
	#1 Type C Cable(3A) #2 Type C Cable (5A)		

Remark: For more detailed features description, please refer to the manufacturer's specifications or the user manual.

3.6.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

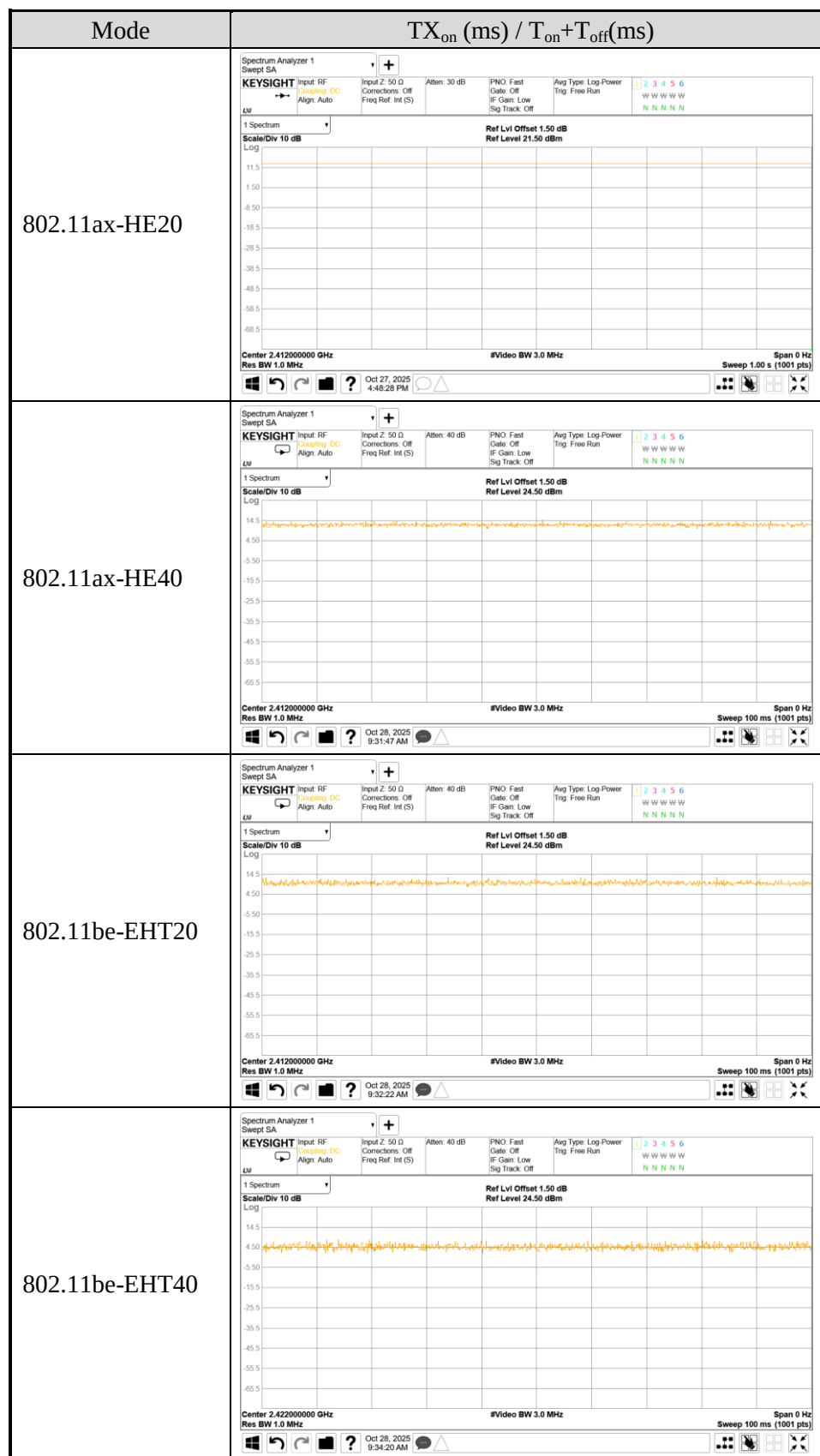
SKU (Mode)		1
Main Board	LG, 1xZ95U MAIN B/D	V
SUB Board	LG, 16Z90U/95U SUB B/D	V
CPU	AMD, Ryzen 7 450	V
16" LCD Panel	LG Display, LP160WQ2	V
Storage (SSD)	SAMSUNG, 256GB	V
	SAMSUNG, 1TB	V
Memory (RAM)	SAMSUNG, 32GB	V
Battery Pack	LGES, LB3122MM	V
Keyboard	LITE-ON, SN8E03B	V
Touch Pad	LITE-ON, SP8B00B31(SG-A0660-00A)	V
Web Camera	Luxvisions, ABG213N3x	V
WLAN Combo Card	GSD (MTK), WET10M2103 (MT7925)	V
WLAN Combo Antenna	LG (INPAQ), WA-P-LELE-04-086	V
Type C	AC Adapter	V
	Link to LAN Gender	V

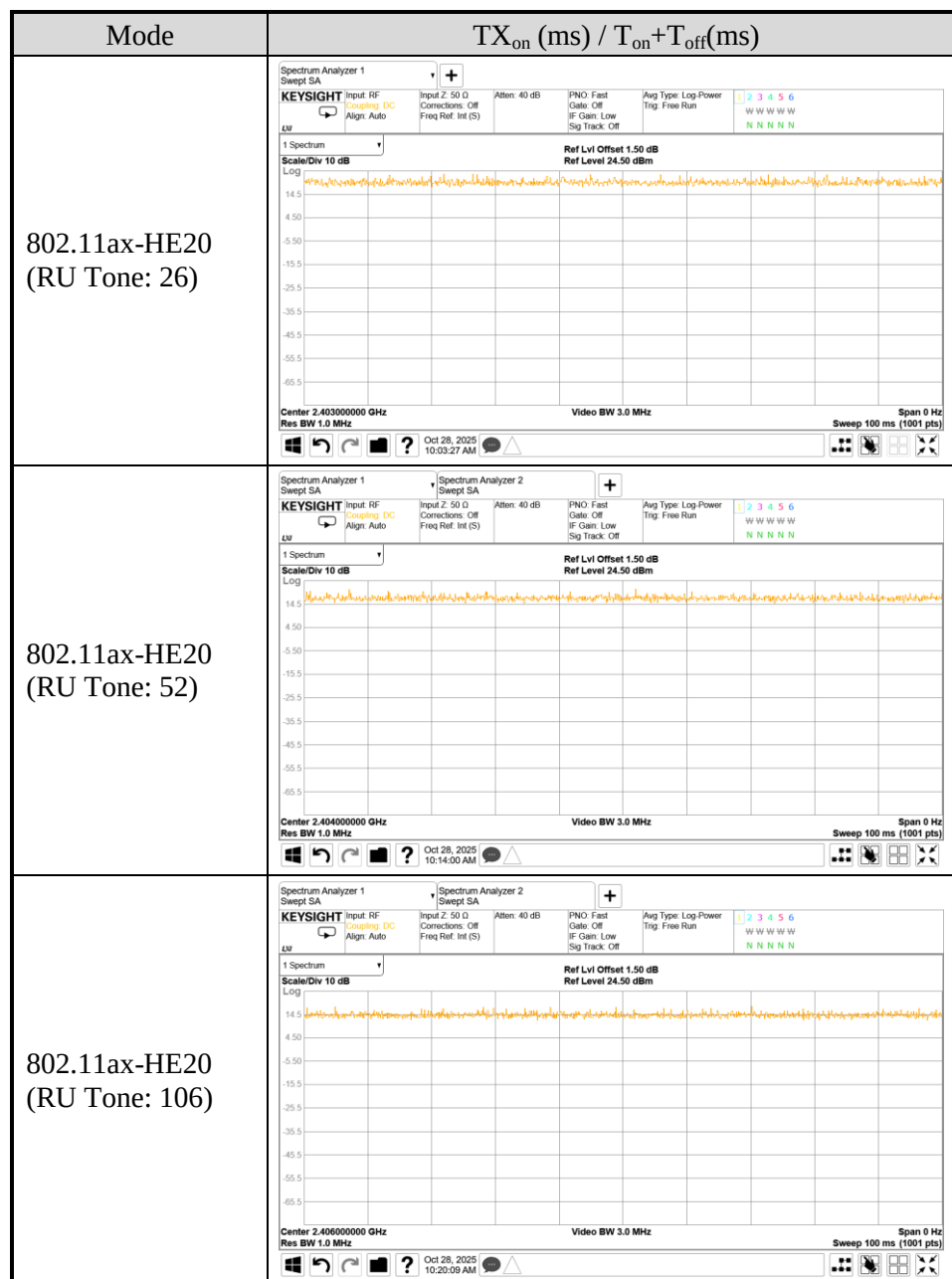
3.7. Test Configuration

Mode		TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11b		N/A	N/A	1	N/A
802.11g		N/A	N/A	1	N/A
802.11n-HT20		N/A	N/A	1	N/A
802.11n-HT40		N/A	N/A	1	N/A
802.11ax-HE20		N/A	N/A	1	N/A
802.11ax-HE40		N/A	N/A	1	N/A
802.11be-EHT20		N/A	N/A	1	N/A
802.11be-EHT40		N/A	N/A	1	N/A
Mode	RU Tone	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
802.11ax-HE20	26	N/A	N/A	1	N/A
	52	N/A	N/A	1	N/A
	106	N/A	N/A	1	N/A
802.11be-EHT20	26	N/A	N/A	1	N/A
	52	N/A	N/A	1	N/A
	106	N/A	N/A	1	N/A

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.



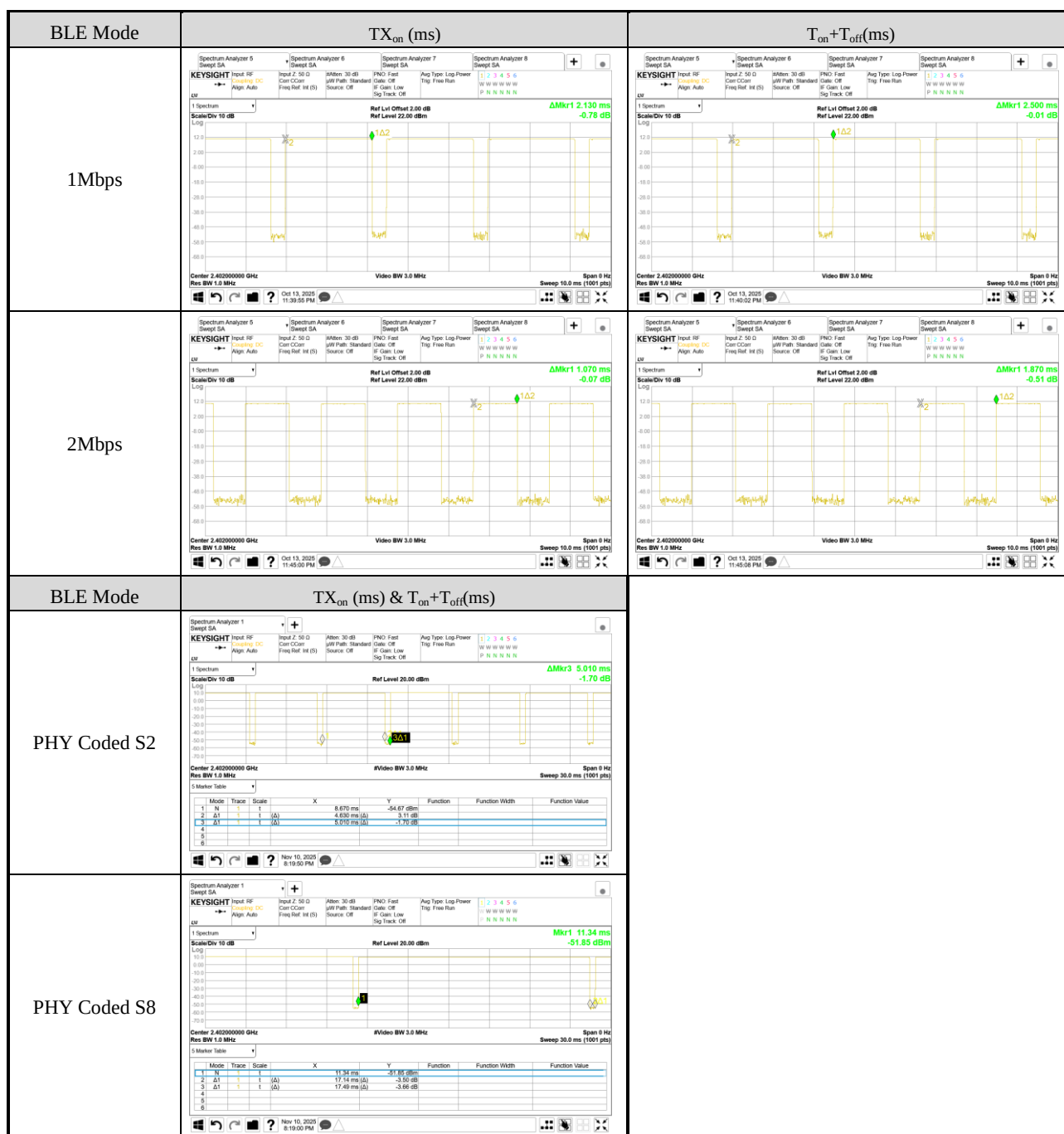






BLE Mode	T _{Xon} (ms)	T _{Xon+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
1Mbps	2.130	2.500	0.852	0.696
2Mbps	1.070	1.870	0.572	2.426
PHY Coded S2	4.630	5.010	0.924	0.343
PHY Coded S8	17.14	17.49	0.980	N/A

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.



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Item	Mode
AC Conduction Test Case	Normal Operation

Item		Mode	RU Tone	Data Rate	Test Channel	
Radiated Test Case	Radiated Spurious Emission (30MHz~1GHz) ^{Note 1,2}	802.11ax-HE20	---	MCS8	7	
		BLE		1Mbps	39	
Radiated Test Case	Radiated Band Edge ^{Note1}	802.11b	---	1Mbps	1/11/12/13	
		802.11g	---	6Mbps	1/11/12/13	
		802.11n-HT20	---	MCS8	1/2/10/11/12/13	
		802.11n-HT40	---	MCS8	3/4/9/10/11	
		802.11ax-HE20	---	HE0	1/2/10/11/12/13	
		802.11ax-HE40	---	HE0	3/4/9/10/11	
		802.11be-EHT20	---	EHT0	1/2/10/11/12/13	
		802.11be-EHT40	---	EHT0	3/4/9/10/11	
		802.11ax-HE20	26/0	HE0	1	
			52/37	HE0	1	
			106/53	HE0	1	
			26/8	HE0	13	
			52/40	HE0	13	
			106/54	HE0	13	
		802.11ax-HE40	242/61	HE0	3	
			242/62	HE0	11	
		802.11be-EHT20	26/0	HE0	1	
			52/37	HE0	1	
			106/53	HE0	1	
			26/8	HE0	13	
			52/40	HE0	13	
			106/54	HE0	13	
		802.11be-EHT40	242/61	EHT0	3	
			242/62	EHT0	11	
		BLE			1Mbps	37/17/39
		Radiated Spurious Emission ^{Note1 & 2}	802.11b	---	1Mbps	1/7/13
			802.11g	---	6Mbps	1/7/13
			802.11n-HT20	---	MCS8	1/7/13
			802.11n-HT40	---	MCS8	2/7/11
			802.11ax-HE20	---	HE0	1/7/13
			802.11ax-HE40	---	HE0	2/7/11
			802.11be-EHT20	---	EHT0	1/7/13
			802.11be-EHT40	---	EHT0	2/7/11
			BLE			1Mbps

Item		Mode	RU Tone	Index	Data Rate	Test Channel
Conducted Test Case	DTS/Occupied Bandwidth	802.11b	---	---	1Mbps	1/2/7/12/13
		802.11g	---	---	6Mbps	1/2/7/12/13
		802.11n-HT20	---	---	MCS8	1/2/7/12/13
		802.11n-HT40	---	---	MCS8	3/7/9/11
		802.11ax-HE20	---	---	HE0	1/2/7/12/13
		802.11ax-HE40	---	---	HE0	3/7/9/11
		802.11be-EHT20	---	---	EHT0	1/2/7/12/13
		802.11be-EHT40	---	---	EHT0	3/7/9/11
		BLE			1Mbps	37/17/39
					2Mbps	37/17/39
					PHY Coded S2	37/17/39
					PHY Coded S8	37/17/39
	Peak Output Power	802.11b	---	---	1Mbps	1/2/3/7/12/13
		802.11g	---	---	6Mbps	1/2/3/7/12/13
		802.11n-HT20	---	---	MCS8	1/2/3/7/12/13
		802.11n-HT40	---	---	MCS8	3/4/5/6/7/8/9/11
		802.11ax-HE20	---	---	HE0	1/2/3/7/12/13
		802.11ax-HE40	---	---	HE0	3/4/5/6/7/8/9/11
		802.11be-EHT20	---	---	EHT0	1/2/3/7/12/13
		802.11be-EHT40	---	---	EHT0	3/4/5/6/7/8/9/11
		802.11ax-HE20	26/0	---	HE0	1
			52/37	---	HE0	1
			106/53	---	HE0	1
			26/8	---	HE0	13
			52/40	---	HE0	13
			106/54	---	HE0	13
		802.11ax-HE40	242/61	---	HE0	3
			242/62	---	HE0	11
		802.11be-EHT20	26/0	---	HE0	1
			52/37	---	HE0	1
			106/53	---	HE0	1
			26/8	---	HE0	13
			52/40	---	HE0	13
			106/54	---	HE0	13
		802.11be-EHT40	242/61	---	EHT0	3
			242/62	---	EHT0	11
		802.11be-EHT20	26+52	70	HE0	1
			26+106	82	HE0	1
			26+52	72	HE0	13
			26+106	83	HE0	13
		BLE			1Mbps	37/17/39
					2Mbps	37/17/39
					PHY Coded S2	37/17/39
PHY Coded S8					37/17/39	
Band Edge		802.11b	---	---	1Mbps	1/11/13
		802.11g	---	---	6Mbps	1/11/13
		802.11n-HT20	---	---	MCS8	1/11/13
		802.11n-HT40	---	---	MCS8	3/9/11
		802.11ax-HE20	---	---	HE0	1/11/13
		802.11ax-HE40	---	---	HE0	3/9/11
	802.11be-EHT20	---	---	EHT0	1/11/13	
	802.11be-EHT40	---	---	EHT0	3/9/11	
	BLE			2Mbps	37/39	

Item		Mode	RU Tone	Index	Data Rate	Test Channel
Conducted Test Case	Spurious Emission	802.11b	---	---	1Mbps	1/7/11/13
		802.11g	---	---	6Mbps	1/7/11/13
		802.11n-HT20	---	---	MCS8	1/7/11/13
		802.11n-HT40	---	---	MCS8	3/7/9/11
		802.11ax-HE20	---	---	HE0	1/7/11/13
		802.11ax-HE40	---	---	HE0	3/7/9/11
		802.11be-EHT20	---	---	EHT0	1/7/11/13
		802.11be-EHT40	---	---	EHT0	3/7/9/11
		BLE				---
	Peak Power Spectral Density	802.11b	---	---	1Mbps	1/2/7/12/13
		802.11g	---	---	6Mbps	1/2/7/12/13
		802.11n-HT20	---	---	MCS8	1/2/7/12/13
		802.11n-HT40	---	---	MCS8	3/7/9/11
		802.11ax-HE20	---	---	HE0	1/2/7/12/13
		802.11ax-HE40	---	---	HE0	3/7/9/11
		802.11be-EHT20	---	---	EHT0	1/2/7/12/13
		802.11be-EHT40	---	---	EHT0	3/7/9/11
		802.11ax-HE20	26/0	---	HE0	1
			52/37	---	HE0	1
			106/53	---	HE0	1
			26/8	---	HE0	13
			52/40	---	HE0	13
			106/54	---	HE0	13
		802.11be-EHT20	26/0	---	HE0	1
			52/37	---	HE0	1
			106/53	---	HE0	1
			26/8	---	HE0	13
			52/40	---	HE0	13
			106/54	---	HE0	13
		802.11be-EHT20	26+52	70	HE0	1
			26+106	82	HE0	1
			26+52	72	HE0	13
			26+106	83	HE0	13
		BLE				2Mbps

Note 1: ☐ Mobile Device ☒ Portable Device and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: ☒ Lie ☐ Side ☐ Stand

Note 2: Low, mid, and high channels were measured, only the worst channel of each modulation was presented in this report.

Note 3: The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in the test report.

Note 4: The data rates were selected based on preliminary testing that identified rate as the worst case for output power.

Note 5 The EUT support MRU configuration as below:
Small RU: 52 tone + 26 tone, 106 tone + 26 tone

3.8. Output Power Setting

Mode					
802.11b			802.11g		
Power Setting			Power Setting		
Centre Frequency (MHz)	Main	AUX	Centre Frequency (MHz)	Main	AUX
2412	15.500	15.500	2412	15.000	15.500
2442	15.500	15.500	2442	15.500	15.500
2462	15.500	15.500	2462	15.000	15.500
2467	15.500	15.500	2467	14.000	14.000
2472	12.000	13.000	2472	12.000	13.000

Centre Frequency (MHz)	Mode					
	802.11n-HT20		802.11ax-HE20		802.11be-EHT20	
	Power Setting		Power Setting		Power Setting	
	Main	AUX	Main	AUX	Main	AUX
2412	14.000	14.000	14.000	14.000	14.000	14.000
2417	15.500	15.500	15.500	15.500	15.500	15.500
2442	15.500	15.500	15.500	15.500	15.500	15.500
2462	15.000	15.000	15.000	15.000	15.000	15.000
2467	13.000	13.000	13.500	13.500	13.500	13.500
2472	11.500	11.500	11.500	11.500	11.500	11.500

Centre Frequency (MHz)	Mode					
	802.11n-HT40		802.11ax-HE40		802.11be-EHT40	
	Power Setting		Power Setting		Power Setting	
	Main	AUX	Main	AUX	Main	AUX
2422	13.000	13.000	13.000	13.000	13.000	13.000
2427	15.500	15.500	15.000	15.000	15.000	15.000
2442	15.500	15.500	15.500	15.500	15.500	15.500
2452	14.000	14.000	15.000	15.000	15.000	15.000
2457	14.500	14.500	14.500	14.500	14.500	14.500
2462	14.000	14.000	14.000	14.000	14.000	14.000

Centre Frequency (MHz)	Mode							
	802.11be-EHT20							
	MRU Tone	Index	Power Setting		MRU Tone	Index	Power Setting	
			Main	AUX			Main	AUX
2412	26+52	70	14.000	14.000	26+52	72	11.500	11.500
2472	26+106	82	14.000	14.000	26+106	83	11.500	11.500

Centre Frequency (MHz)	Mode							
	BLE							
	1Mbps		2Mbps		PHY Coded S2		PHY Coded S8	
	Power Setting		Power Setting		Power Setting		Power Setting	
	Main	AUX	Main	AUX	Main	AUX	Main	AUX
2402	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000
2440	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000
2480	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

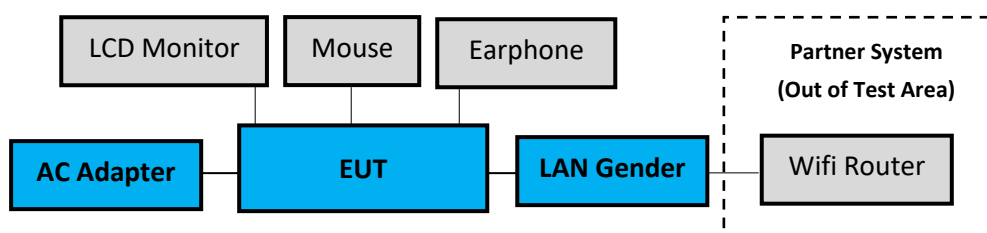
No.	Product	Brand	Model No.	Serial No.	Approval
1.	LCD Monitor	DELL	U2718Qb	CN-0M5R5F-QDC00-99P-04CL	N/A
2.	USB Mouse	Lenovo	SM-8823	8SSM50L24506AVLC99H049R	N/A
3.	Earphone	APPLE	N/A	N/A	N/A
Partner System					
4.	WiFi Router	ASUS	RT-BE96U	RBIG6G200822ZT7	FCC ID: MSQ-RTBE6G00

3.9.2. Cable Lists

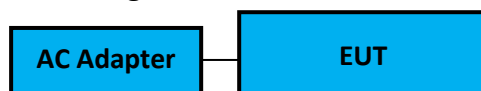
No.	Cable Description Of The Above Support Units
1.	HDMI Cable: Shielded, Detachable, 1.8m AC Power Cord: Unshielded, Detachable, 1.8m
2.	USB Cable: Unshielded, Undetachable, 1.8 m
3.	Earphone Cable: Unshielded, Undetachable, 1.2m
4.	AC adapter: M/N: ADD011, DC Power Cable: Unshielded, Detachable, 1.8m, Bonded two ferrite cores AC Power Cord: Unshielded, Detachable, 1.1m LAN cable: Unshielded, Detachable, 3.0m
5.	LAN Cable: Unshielded, Detachable, 1.8m

3.10. Setup Configuration

3.10.1. EUT Configuration for Power Line & Radiated Emission



3.10.2. EUT Configuration for RF Conducted Test Items



3.11. Operating Condition of EUT

Test program “DRTU” is used for enabling EUT BT or WLAN function under continues transmitting and choosing data rate/ channel.
[ANT AUX port (A Button in DRTU), ANT Main port (B Button in DRTU)].

3.12. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber

3.13.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test	☐	No. 7 Shielded Room	9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
	☒	No. 8 Shielded Room	9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.2dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.3dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.7dB
			6GHz-18GHz, 3m	±4.4dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±3.9dB
			30MHz-200MHz, 3m, Vertical	±4.6dB
			200MHz-1000MHz, 3m, Vertical	±4.3dB
			1GHz-6GHz, 3m	±4.6dB
			6GHz-18GHz, 3m	±4.1dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.4dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.9dB
			200MHz-1000MHz, 3m, Vertical	±5.1dB
			1GHz-6GHz, 3m	±4.4dB
			6GHz-18GHz, 3m	±4.0dB
	Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m	±3.6dB

Remark : Uncertainty = $ku_c(y)$

Test Item	Uncertainty
Bandwidth	±0.48%
Maximum peak output power	± 0.8dB
Power spectral density	±0.5dB
Conducted Emission Limitations	±1.24 dB

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2025.01.03	1 Year
2.	A.M.N.	R&S	ENV432	101567	2025.06.04	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	2025.02.05	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2024.12.07	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2025.04.09	1 Year
6.	Signal Cable	Yeida	RG/58AU	CE-08	2025.09.03	1 Year
7.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2025.08.07	1 Year
2.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2025.07.09	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2025.06.14	1 Year
4.	Amplifier	HP	8447D	2944A06305	2024.12.16	1 Year
5.	Microwave Preamplifier	HP	8449B	3008A01284	2025.07.07	1 Year
6.	Microwave Amplifier	Keysight	83051A	MY56480113	2025.09.05	1 Year
7.	Loop antenna	TESEQ	HLA 6121	60478	2025.06.05	1 Year
8.	Bilog Antenna	TESEQ	CBL6112D	33821	2025.02.08	1 Year
9.	Horn Antenna	EMCO	3115	9112-3775	2025.05.06	1 Year
10.	Horn Antenna	COM-POWER	AH-840	101092	2025.01.09	1 Year
11.	2.4GHz Notch Filter	K&L Microwave	7NSL10-2441.5/E13 0.5-O/O	1	2025.04.10	1 Year
12.	High-Pass Filter	Microwave	H3G018G1	484796	2025.04.10	1 Year
13.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2025.01.03	1 Year
14.	Coaxial Cable	HUBER+SUHNER	RG223/U	RE-33	2025.06.10	1 Year
15.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2025.01.03	1 Year
16.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	RE-30	2025.08.19	1 Year
17.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2025.04.09	1 Year
18.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9010B	MY65100101	2025.05.05	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2025.06.04	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2025.06.04	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2025.04.09	1 Year

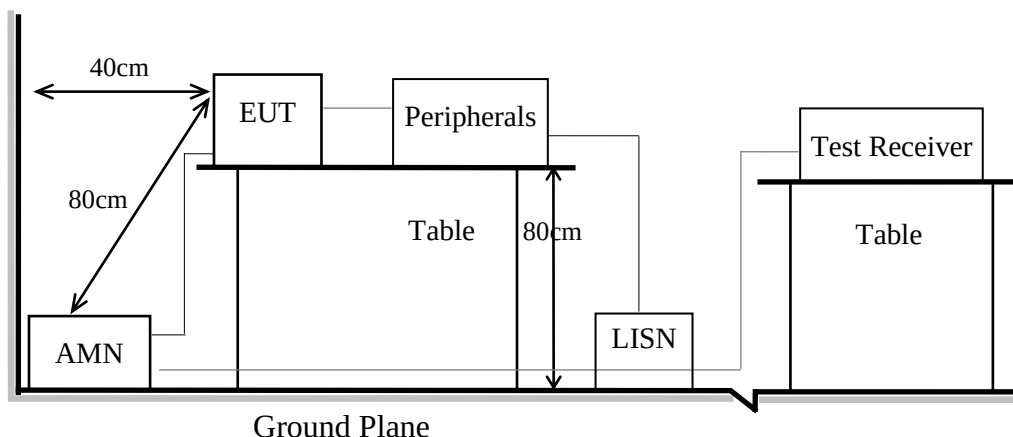
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.10

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

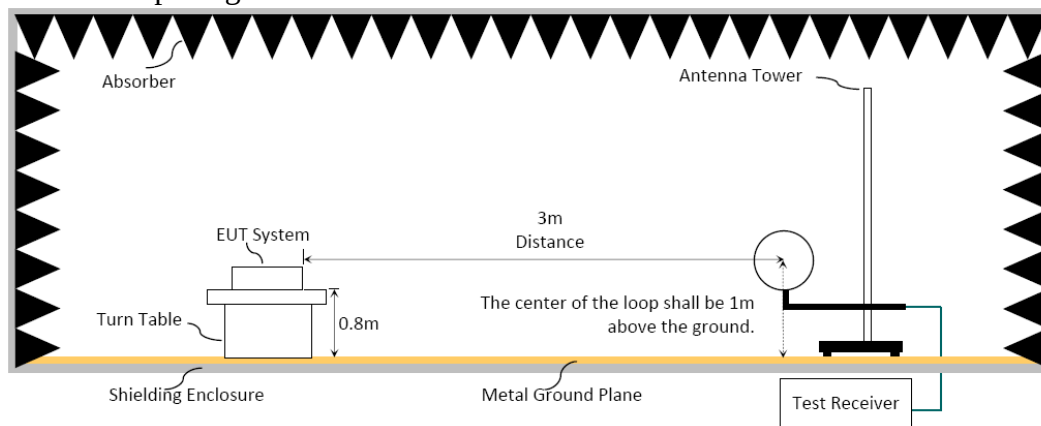
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

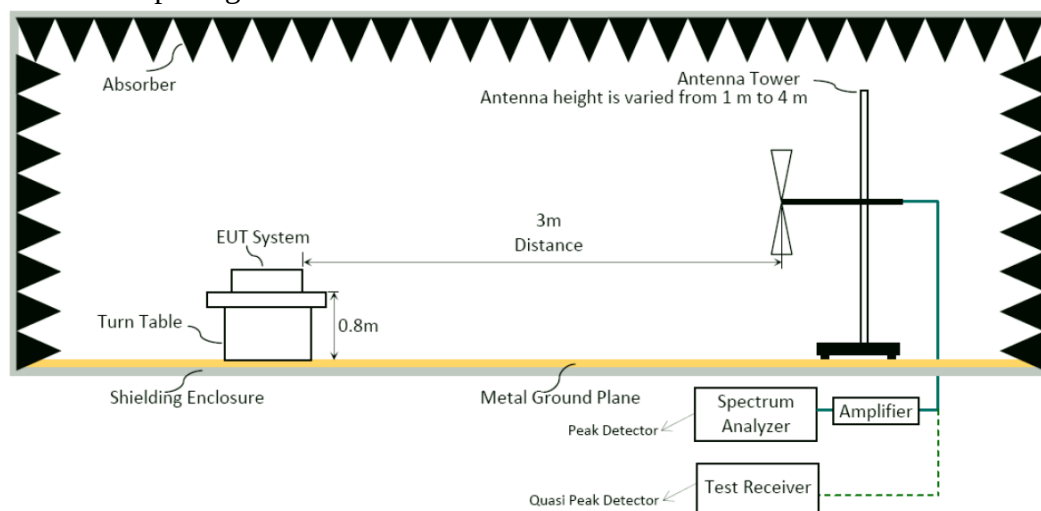
6.1.1. Block Diagram of EUT

Indicated as section 3.10

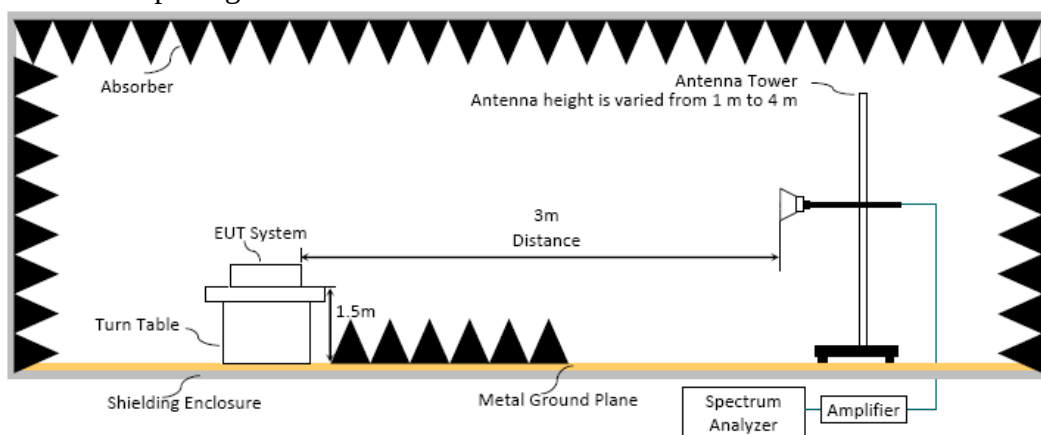
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Limits	
		dBμV/m	μV/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark : (1) $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020 & ANSI C63.10-2020 + COR.1-2023 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020 & ANSI C63.10-2020 + COR.1-2023 regulation.

Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Frequency above 1GHz to 10th harmonic(up to 25 GHz):

Peak Detector:

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

Average Detector:

☒ Option 1:

(1) RBW = 1MHz

(2) VBW $\geq 1/T$. (Duty Cycle $< 98\%$, when duty cycle presented in section 3.7)

Modulation Type	VBW Setting (VBW $\geq 1/T$)
BLE (1Mbps)	470 Hz
BLE (2Mbps)	1 kHz
BLE (PHY Coded S2)	220 Hz
BLE (PHY Coded S8)	110 Hz

(3) VBW = 10Hz (Duty Cycle $\geq 98\%$, when duty cycle presented in section 3.7)

Mode		VBW Setting
802.11b		10Hz
802.11g		10Hz
802.11n-HT20		10Hz
802.11n-HT40		10Hz
802.11ax-HE20		10Hz
802.11ax-HE40		10Hz
802.11be-EHT20		10Hz
802.11be-EHT40		10Hz
Mode	RU Tone	VBW Setting
802.11ax-HE20	26	10Hz
	52	10Hz
	106	10Hz
802.11be-EHT20	26	10Hz
	52	10Hz
	106	10Hz

(4) Sweep time = auto.

(5) Trace mode = max hold.

(6) Allow sweeps to continue until the trace stabilizes.

☐ Option 2:

Average Emission Level = Peak Emission Level + D.C.C.F.

6.4. Measurement Result Explanation

☒ Peak Emission Level (dB μ V/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB μ V).

☒ Average Emission Level (dB μ V/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB μ V).

☐ Average Emission Level (dB μ V/m) = Peak Emission Level (dB μ V/m) + DCCF (dB)
Duty Cycle Correction Factor (DCCF) (dB) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.7.

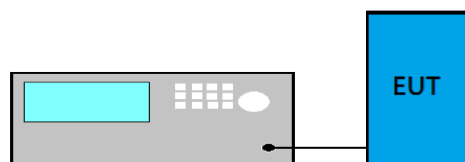
☐ ERP (dBm) = Peak Emission Level (dB μ V/m) - 95.2dB - 2.14dB

6.5. Test Results

Please refer to Appendix A.

7. DTS/OCCUPIED BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The minimum bandwidth shall be at least 500kHz.

7.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10-2020 & ANSI C63.10-2020 + COR.1-2023:

For DTS Bandwidth

- (1) Set RBW shall be in the range of 1% to 5% of the OBW, but not less than 100kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x to -6dB power to record the final bandwidth..

For 99% Occupied Bandwidth

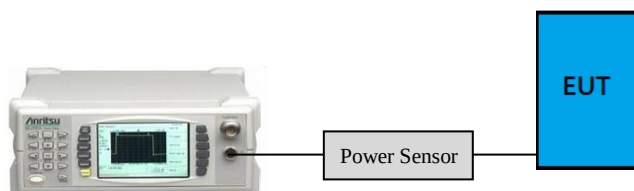
- (1) Set Span range 1.5~5 times the OBW
- (2) Set RBW close to 1% to 5% of OBW.
- (3) Set $\text{VBW} \geq 3 \times \text{RBW}$.
- (4) Detector = Peak.
- (5) Trace mode = Max hold
- (6) Sweep = Auto couple.
- (7) Allow the trace to stabilize.

7.4. Test Results

Please refer to Appendix A

8. MAXIMUM PEAK OUTPUT POWER

8.1. Block Diagram of Test Setup



8.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

8.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10-2020 & ANSI C63.10-2020 + COR.1-2023:

☒ **PKPM1 Peak power meter method:**

EUT is connected to power sensor and record the maximum output power.

☐ **Maximum peak conducted output power method:**

- (1) Set the RBW $\geq$ DTS bandwidth
- (2) Set VBW $\geq 3 \times$ RBW
- (3) Set span $\geq 3 \times$ RBW.
- (4) Sweep time = auto couple
- (5) Detector = peak.
- (6) Trace mode = max hold.
- (7) Allow trace to fully stabilize.
- (8) Use peak marker function to determine the peak amplitude level.

☒ **Method AVGPM (Measurement using an RF average power meter):**

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

☐ **Method AVGSA-2 (Spectrum channel power)**

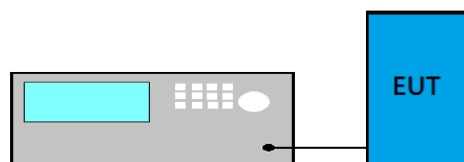
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5%of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

8.4. Test Results

Please refer to Appendix A

9. EMISSION LIMITATIONS

9.1. Block Diagram of Test Setup



9.2. Specification Limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

9.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10-2020 & ANSI C63.10-2020 + COR.1-2023:

☒ Reference Level

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max PSD as reference level.

☒ Emission Level Measurement

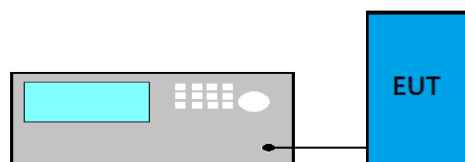
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max level.

9.4. Test Results

Please refer to Appendix A

10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

10.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10-2020 & ANSI C63.10-2020 + COR.1-2023:

☒ **Method PKPSD (peak PSD)**

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- (4) Set the VBW $\geq 3 \times \text{RBW}$.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize.
- (9) Use the peak marker function to determine the maximum amplitude level.
- (10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

☐ **Method AVGPSD-2**

- (1) Using peak PSD procedure step 1 to step 4.
- (2) Detector = RMS detector
- (3) Sweep time = auto couple
- (4) Trace mode = trace averaging over a minimum of 100 traces
- (5) Use the peak marker function to determine the maximum amplitude level.
- (6) Duty cycle factor is added when duty cycle presented in section 3.7 < 98%.
- (7) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

10.4. Test Results

Please refer to Appendix A



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11.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPENDIX A

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APPENDIX A

TEST DATA AND PLOTS

(Model: 16Z95U)



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APPENDIX B

TEST PHOTOGRAPHS

(Model: 16Z95U)