



RF Test Report



Report Number : 6128625036501

Applicant : VITA ELECTRONICS LTD

Product : TFT LCD COLOR MONITOR
PUBLIC VIEW MONITOR

Brand : clintonelectronics

Model : CE-P21E-B / CE-P21XXXXXXXXXX

FCC ID : 2AVEACE-P21-7005

Applicable Standard:

FCC rule Part §15.407

RESPONSIBLE FOR	NAME	SIGNATURE	DATE
Approved By	Jack Chang		2025.10.14
Prepared By	Ariel Hsu		2025.10.14

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service control rules.

EXECUTIVE SUMMARY

TÜV SÜD Asia Ltd., reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Asia Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Asia Ltd. issued reports.

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1 General Information

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

History of this test report

Issue	Description of Change	Date of Issue
1	Initial Issue	2025-10-14

1.2 Introduction

The information contained in this report is intended to show verification of RF qualification approval. The testing requirements of the standards for the tests listed in Section 1.5.

Applicant : VITA ELECTRONICS LTD
Address : 5F., No. 103, Chou Tze St., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)
Manufacturer : VITA ELECTRONICS LTD
Brand Name : clintonelectronics
Product Name : TFT LCD COLOR MONITOR
PUBLIC VIEW MONITOR
Model Number(s) : CE-P21E-B / CE-P21XXXXXXXXXX
Date of Receipt of EUT : 2025-06-30
Start of Test : 2025-09-03
Finish of Test : 2025-09-17
Test Laboratory : TÜV SÜD Asia Ltd., Taiwan Branch
Address : 7F., No. 37, Sec. 2, Zhongyang S. Rd., Beitou District, Taipei City 11270, R.O.C. Taiwan
Test Location : TÜV SÜD Asia Ltd., Taiwan Branch, Guishan Laboratory
Address : No. 31, Dinghu Road, Guishan District, Taoyuan City, TAIWAN (R.O.C.)

The test facility is accredited by TAF (member of ILAC), under number 2573 according to ISO/IEC 17025: 2017.

FCC Designation Number No.: TW2573

1.3 Reference Measurement Document

- ☒ ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
- ☒ KDB 789033 D02 General UNII Test Procedures New Rules v02r01
- ☐ KDB 291074 D02 EMC Measurement v01
- ☐ KDB 662911 D01 Multiple Transmitter Output v02r01

1.4 Summary of Test Results

§15.407			
Clause	Test item	Result	Remark
§15.203	Antenna Requirement	Compliant	
§15.407(a)	Maximum Conducted Output Power	Compliant	
§15.407(e)	Emission Bandwidth	Compliant	
§15.407(a)	Maximum Spectral Power Density	Compliant	
§15.205 §15.209 §15.407(b)	Radiated Spurious Emissions and Band Edges	Compliant	
§15.207	AC Power Line Conducted Emission	Compliant	
§15.407(g)	Frequency Stability	Compliant	

2 General EUT Information

2.1 Technical Specification of EUT

Items	EUT information
Operating Frequency	Band 1: 5180 MHz to 5240 MHz Band 2a: 5260 MHz to 5320 MHz Band 2c: 5500 MHz to 5720 MHz Band 3: 5745 MHz to 5825 MHz
Number of Channels	Band 1: 4 for 20 MHz BW mode 2 for 40 MHz BW mode 1 for 80 MHz BW mode Band 2a: 4 for 20 MHz BW mode 2 for 40 MHz BW mode 1 for 80 MHz BW mode Band 2c: 12 for 20 MHz BW mode 6 for 40 MHz BW mode 3 for 80 MHz BW mode Band 3: 5 for 20 MHz BW mode 2 for 40 MHz BW mode 1 for 80 MHz BW mode
Operating Voltage	24.0Vdc via Adapter
Data Rate	802.11a: up to 54 Mbps 802.11n HT20: up to 72.2 Mbps 802.11n HT40: up to 150 Mbps 802.11ac VHT20: up to 86.7 Mbps 802.11ac VHT40: up to 200 Mbps 802.11ac VHT80: up to 433.3 Mbps
Modulation	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
EUT Category	☐ Outdoor AP; ☐ Indoor AP; ☐ Fixed P2P AP; ☒ Client
TX Streaming Mode	☒ SISO; ☐ MIMO, 2T2R ☐ 2TX for Diversity
Test Software Version	Ampak RFTestTool, VER: 6.0
Sample ID	Radiated Sample: 718873488-E1-001 Conducted Sample: 718873488-E1-002

TÜV SÜD Asia Ltd assumes no responsibility for any technical specification (including antenna information) provided by the applicant.

2.2 Antenna List

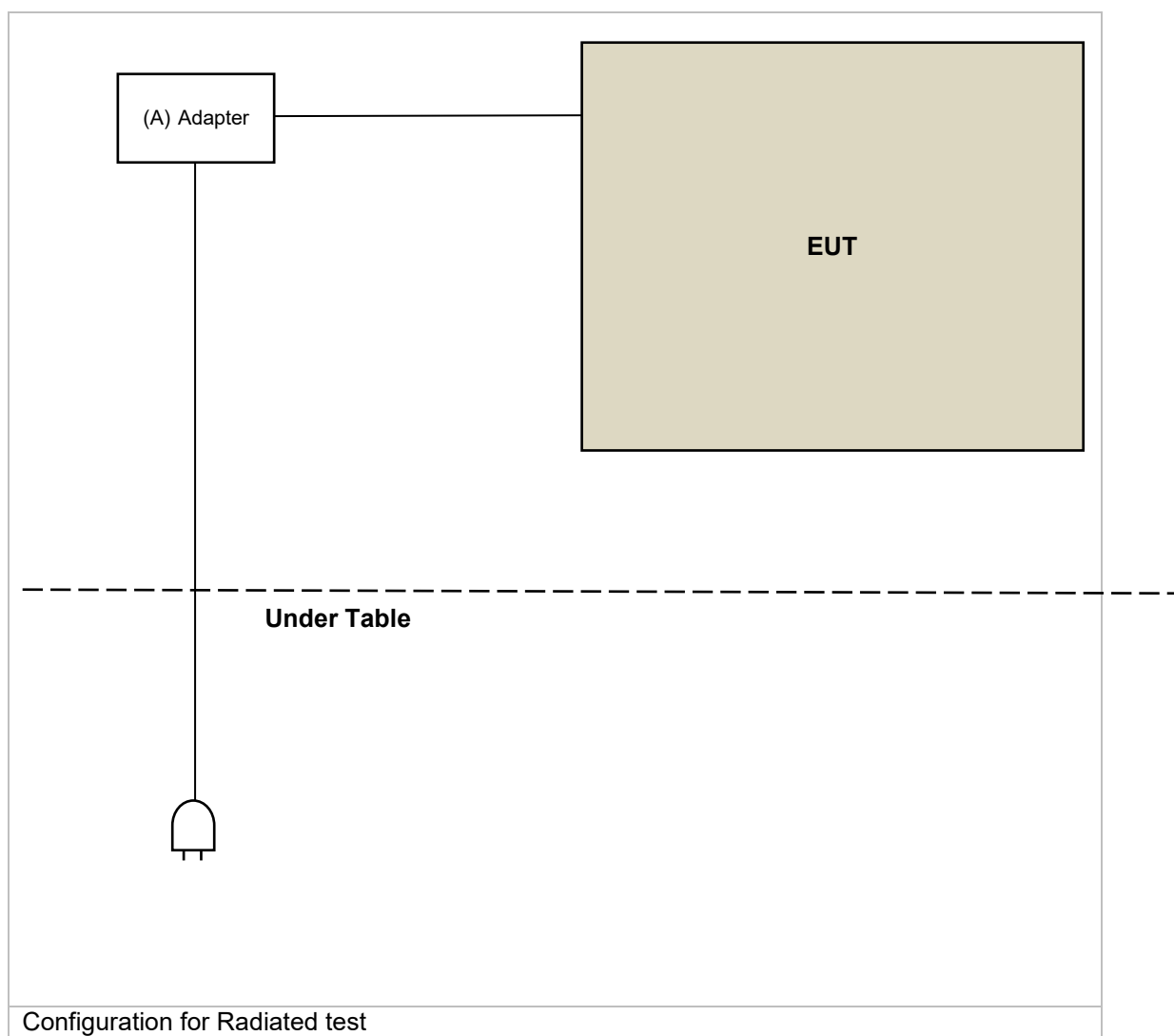
Antenna Type	Brand	Model	Connector	Freq. (MHz)	Peak Antenna Gain (dBi)
PATCH	COWIN	CW-20241024100	Integral PCB Antenna	5150 – 5250	1.435
				5250 – 5350	1.513
				5470 – 5725	1.664
				5725 - 5850	1.173

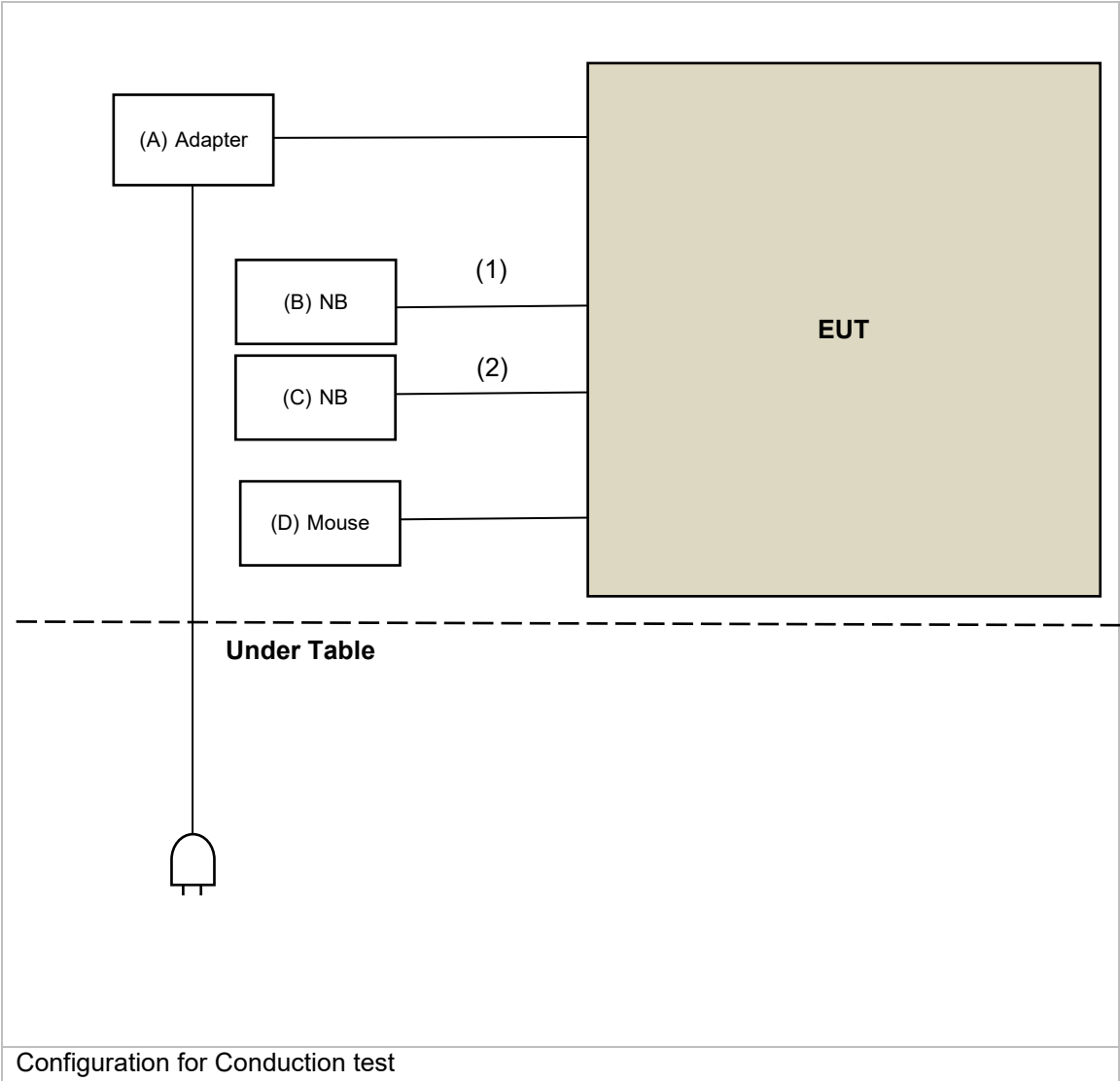
2.3 Variation of family model(s)

Brand	Product Name	Type Identification	Difference
clintonelectronics	PUBLIC VIEW MONITOR	CE-P21E-B	All models are electrically identical, different model names are for marketing purpose.
	TFT LCD COLOR MONITOR	CE-P21XXXXXXXXXX (clarified/ specified with it's definition)	
	PUBLIC VIEW MONITOR		

3 EUT Setup Configuration

3.1 Block Diagram





3.2 Support Equipment

No.	Product	Brand	Model No.	Serial No.	Remarks
A	ADAPTER	ADAPTER TECH.	ATS065T- P240	959-12061- 24271A	Provided by Client
B	Notebook 1	Lenovo	TP00048A	PC-00NQMT	Provided by Lab
C	Notebook 2	Lenovo	TP00048A	PC-00NQQ4	Provided by Lab
D	Mouse	Logitech	M90	2307HS05CG 39	Provided by Lab

*The software is used to configure the EUT on the desired channel, BW and power settings for compliance testing.

3.3 Support Cable(s)

No.	Product	Brand	Model No.	Length (m)	Remarks
1	LAN	N/A	N/A	1	Provided by Lab
2	LAN	N/A	N/A	1	Provided by Lab

3.4 Channel list and Power Setting

Band	Channel Number	Frequency (MHz)	Power Setting (802.11a)	Power Setting (802.11n-HT20/ 802.11ac-VHT20)
1	36	5180	32	32
	40	5200	32	32
	44	5220	32	32
	48	5240	32	32
2a	52	5260	32	32
	56	5280	32	32
	60	5300	32	32
	64	5320	32	32
2c	100	5500	32	32
	104	5520	32	32
	108	5540	32	32
	112	5560	32	32
	116	5580	32	32
	120	5600	32	32
	124	5620	32	32
	128	5640	32	32
	132	5660	32	32
	136	5680	32	32
	140	5700	32	32
	144	5720	32	32
3	149	5745	32	32
	153	5765	32	32
	157	5785	32	32
	161	5805	32	32
	165	5825	32	32

Band	Channel Number	Frequency (MHz)	Power Setting (802.11n-HT40 / 802.11ac-VHT40)
1	38	5190	32
	46	5230	32
2a	54	5270	32
	62	5310	32
2c	102	5510	32
	110	5550	32
	118	5590	32
	126	5630	32
	134	5670	32
	142	5710	32
3	151	5755	32
	159	5795	32

Band	Channel Number	Frequency (MHz)	Power Setting (802.11ac-VHT80)
1	42	5210	32
2a	58	5290	32
2c	106	5530	32
	122	5610	32
	138	5690	32
3	155	5775	32

3.5 Test Configuration

The EUT was configured to operate at its maximum power control level and set to a continuous transmitting and receiving state via the test software for all testing procedures.

RF Conducted Measurement

Test Item	Mode	NII Band	Tested Channel	Date Rate (Mbps)
Maximum Conducted Output Power, Maximum Spectral Power Density, Emission Bandwidth/ 26 dB Bandwidth	802.11a	1	36, 40, 48	6.0
		2A	52, 60, 64	
		2C	100, 116, 140, 144	
		3	149, 157, 165	
	802.11ac VHT20	1	36, 40, 48	MCS0
		2A	52, 60, 64	
		2C	100, 116, 140, 144	
		3	149, 157, 165	
	802.11ac VHT40	1	38, 46	MCS0
		2A	54, 62	
		2C	102, 110, 134, 142	
		3	151, 159	
	802.11ac VHT80	1	42	MCS0
		2A	58	
		2C	106, 122, 138	
		3	155	

Test Item	Mode	NII Band	Tested Channel	Date Rate (Mbps)
Frequency Stability	802.11a	1	36, 40, 48	6.0
	802.11ac VHT20	1	36, 40, 48	MCS0
	802.11ac VHT40	1	38, 46	MCS0
	802.11ac VHT80	1	42	MCS0

Radiated Spurious Emission

The emission tests were performed with the EUT and accessories arranged and configured in a manner that tends to produce maximum emissions.

Radiated Spurious Emissions (Below 1 GHz)

Below tested channels were the worst-case of each modulation family determined in accordance with ANSI C63.10, clause 5.6.2.2 (b).

Mode	NII Band	Available Channel	Tested Channel	Date Rate (Mbps)
802.11a	1	36 to 48	40	6.0
802.11a	2A	52 to 64	60	6.0
802.11a	2C	100 to 144	100	6.0
802.11a	3	149 to 165	149	6.0

☒ Mobile Device

☐ Portable Device and 3 axis (X, Y, Z) were assessed. ☐ Lie(X) ☐ Stand(Y) ☐ Side(Z) was identified as the worst-case and is presented in the report.

Radiated Spurious Emissions (Above 1 GHz)
☒ Following channel(s) was (were) selected for the final test as listed below.

Test Item	Mode	NII Band	Tested Channel	Date Rate (Mbps)
Emission Above 1 GHz	802.11a	1	36, 40, 48	6.0
		2A	52, 60, 64	
		2C	100, 116, 140, 144	
		3	149, 157, 165	
	802.11ac VHT20	1	36, 40, 48	MCS0
		2A	52, 60, 64	
		2C	100, 116, 140, 144	
		3	149, 157, 165	
	802.11ac VHT40	1	38, 46	MCS0
		2A	54, 62	
		2C	102, 110, 134, 142	
		3	151, 159	
Band Edge	802.11a	1	42	MCS0
		2A	58	
		2C	106, 122, 138	
		3	155	
	802.11ac VHT20	1	36	MCS0
		2A	64	
		2C	100, 140, 144	
		3	149, 165	
	802.11ac VHT40	1	36	MCS0
		2A	64	
		2C	100, 140, 144	
		3	149, 165	
	802.11ac VHT80	1	38	MCS0
		2A	62	
		2C	102, 134, 142	
		3	151, 159	
	802.11ac VHT80	1	42	MCS0
		2A	58	
		2C	106, 122, 138	
		3	155	

AC Power Line Conducted Emission
☐ N/A, the device was powered by battery.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Channel	Date Rate (Mbps)
TX--	5180-5825	36	6

3.6**Test Condition**

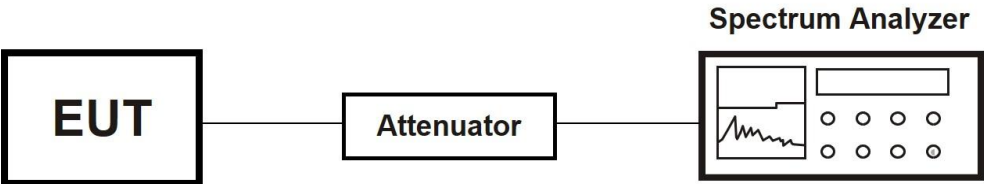
Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	22-26 °C	50-68 %	Kevin Syu
Radiated Spurious Emissions	22-26 °C	50-68 %	Sam Huang
AC Power Line Conducted Emission	22-26 °C	50-68 %	Sam Huang



4 Technical Requirements

4.1 Duty Cycle

4.1.1 Block Diagram



4.1.2 Measurement procedure

Duty Cycle measurement is performed in accordance with the procedures of ANSI C63.10, clause 12.2. The EUT shall be configured to operate at the maximum achievable duty cycle.

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	Zero Span
RBW	≥ EBW, or the largest available value
VBW	≥ RBW
Detector	Peak
Sweep Points	≥32001

4.1.3 Limit

N/A, the duty cycle measurement was a reference value.

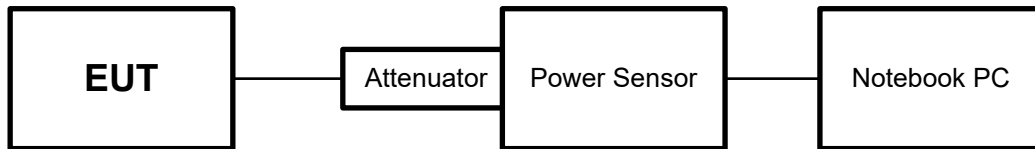
4.1.4 Result

Refer to Appendix B

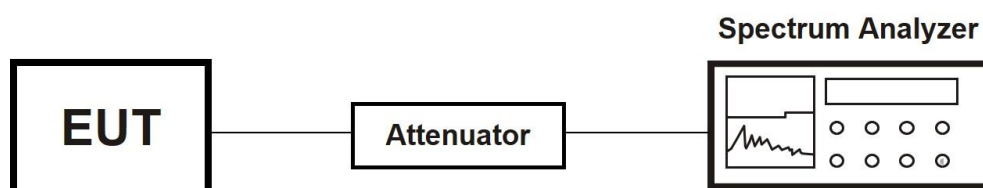
4.2 Maximum Conducted Output Power

4.2.1 Block Diagram

Method PM-G



Method SA



4.2.2 Measurement procedure

- 1) The measurement is performed in accordance with the procedures of ANSI C63.10, clause 12.4. The EUT shall be configured to operate at the maximum achievable duty cycle and the operation mode presented at section 3.5.

☒ **Method PM-G, ANSI C63.10, Clause 12.4.3.2**

The wideband gated RF power meter is used to perform the measurement. The gate parameters are adjusted such that the power is measured the ON time of the transmissions.

☐ **Method SA-1, ANSI C63.10, Clause 12.4.2.3**

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	encompass the entire 99% OBW of the signal
RBW	1 MHz
VBW	≥ 3 RBW
Detector	RMS
Sweep Points	≥ 32001
Trace Average	At least 100 traces
Measurement Function	Use power function to compute power by integrating the spectrum across the 99% OBW.

- 2) When the EUT supports MIMO operation, the measure-and-sum technique shall be used for measuring in-band transmit power of a device. Total power is the sum of the conducted power levels measured at the various output ports.

4.2.3 Limit

According to LP0002 5.7.3

Operating Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125 mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250 mW (24 dBm)
U-NII-2A	---	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-2C	---	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-3	---	1 Watt (30 dBm)

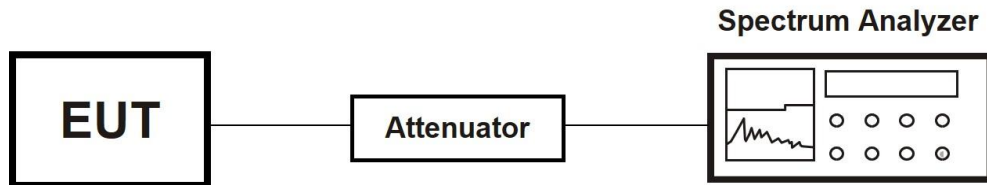
Note: B* is the 26 dB emission bandwidth in MHz

4.2.4 Measurement result

Refer to Appendix C

4.3 Bandwidth Measurement

4.3.1 Block Diagram



4.3.2 Measurement procedure

- 1) 26 dB Emission Bandwidth for NII Band 1, 2A and 2C

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	encompass the entire 99% OBW of the signal
RBW	1-5% of EBW or OBW
VBW	>RBW
Detector	Peak
Trace Mode	Max hold
Measurement Function	Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

- 1) 99% Occupied Bandwidth for all bands

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	encompass the entire 99% OBW of the signal
RBW	1-5% of EBW or OBW
VBW	>3*RBW
Detector	Sample
Trace Mode	Single Sweep
Measurement Function	Use the 99% power bandwidth function of the spectrum.

- 1) 6dB Bandwidth for all bands

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	encompass the entire 99% OBW of the signal
RBW	1-5% of EBW or OBW
VBW	$\geq 3 \cdot \text{RBW}$
Detector	Peak
Trace Mode	Max Hold
Measurement Function	Measure the maximum width of the emission that is 6 dB down from the maximum of the emission.



4.3.3 Limit

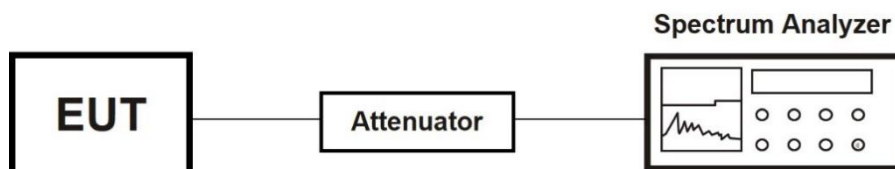
- 1) N/A for NII Band 1, 2A, and 2C
- 2) NII Band 3 shall have 6 dB bandwidth at least 500 kHz.

4.3.4 Measurement result

Refer to Appendix D

4.4 Maximum Power Spectral Density

4.4.1 Block Diagram



4.4.2 Measurement procedure

1) Procedure for NII Band 1, 2A and 2C

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	encompass the entire 99% OBW of the signal
RBW	1 MHz
VBW	≥ 3 RBW
Detector	RMS
Trace Average	At least 100 traces
Measurement Function	Use peak search to identify the max PSD

2) Procedure for NII Band 3

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	encompass the entire 99% OBW of the signal
RBW	1 MHz
VBW	≥ 3 RBW
Detector	Peak
Sweep Points	≥ 32001
Trace Average	At least 100 traces
Measurement Function	Use peak search to identify the max PSD

4.4.3 Limit

LP0002, clause 5.7.3

Operating Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz
U-NII-2A	---	11 dBm/MHz
U-NII-2C	---	11 dBm/MHz
U-NII-3	---	30 dBm/500kHz

4.4.4 Measurement result

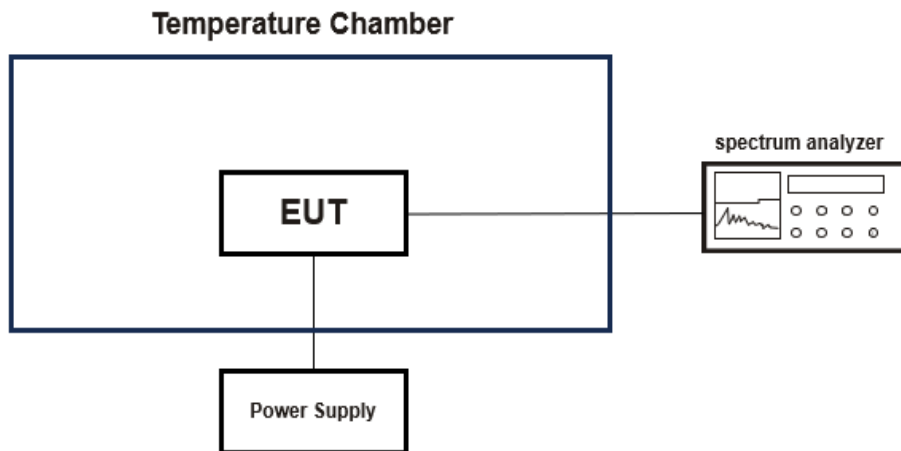
Refer to Appendix E

4.5 Frequency Stability

4.5.1 Measurement procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal voltage.
2. Turned the EUT on and coupled its output to a spectrum analyzer Turned the EUT on and coupled its output to a spectrum analyzer.
3. Turned the EUT off and set the chamber to the highest temperature specified.
4. Allowed sufficient time (approximately 30 min) for the temperature of the chamber to stabilize then turned the EUT on and measured the operating frequency after 2, 5, and 10 minutes.
5. Repeated step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.5.2 Test Setup



4.5.3 Limit

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

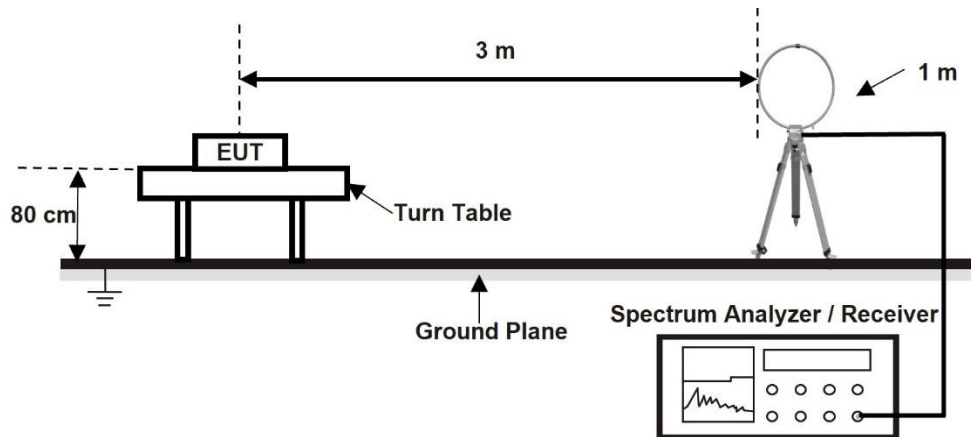
4.5.4 Measurement result

Refer to Appendix F

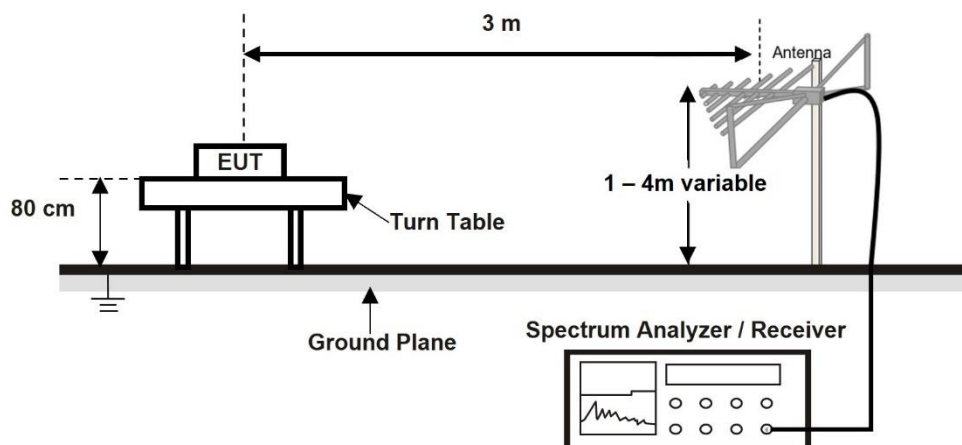
4.6 Radiated Spurious Emissions and Band Edges

4.6.1 Test Setup

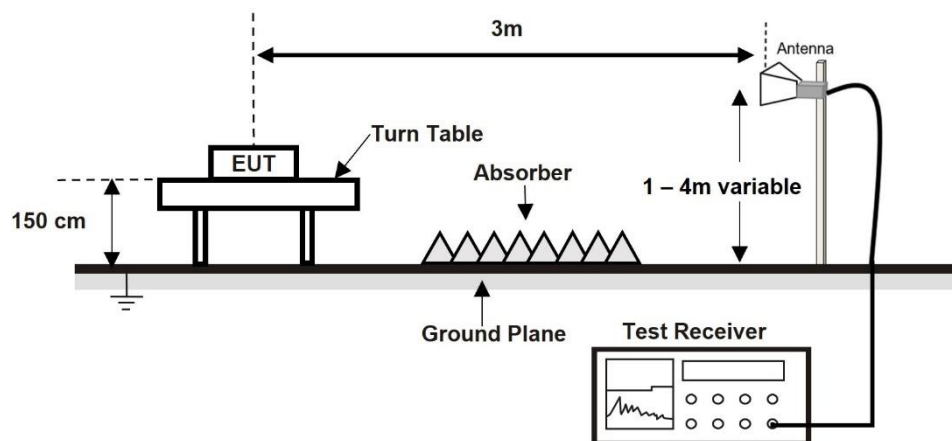
Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1 GHz.



4.6.2 Measurement procedure

For Frequency below 30 MHz

The EUT was setup in accordance with section 3.1 and 4.5.1. The EUT was placed on top of the turntable with a height of 0.8 m for measurement of frequencies below 30 MHz. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° while varying the measurement antenna height in Parallel (OPEN), perpendicular (CLOSE), and 4 m Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations. The measurement shall be performed with the following spectrum setting.

The RBW/ VBW shall be set 9 kHz for the measurement with Q.P. Frequency ranges in 9-90 kHz and 110- 490 kHz are based on measurements employing average and peak detectors.

For Frequency from 30 MHz to 40 GHz

The EUT was setup in accordance with section 3.1 and 4.5.1. The EUT was placed on top of the turntable with a height of 0.8 m for measurement of frequencies below 1 GHz, and 1.5 m for measurement of frequencies above 1 GHz. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° while varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. The measurement shall be performed with the following spectrum setting.

Frequency below 1 GHz:

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.
- If peak detection results satisfy the limit, Q.P. measurements are unnecessary; otherwise, a final Q.P. measurement must be performed.

Frequency above 1 GHz to 10th harmonic (up to 40 GHz):

Peak Measurement:

- (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.

Where the peak values are below the average limit, further measurements using an average detector are not required.

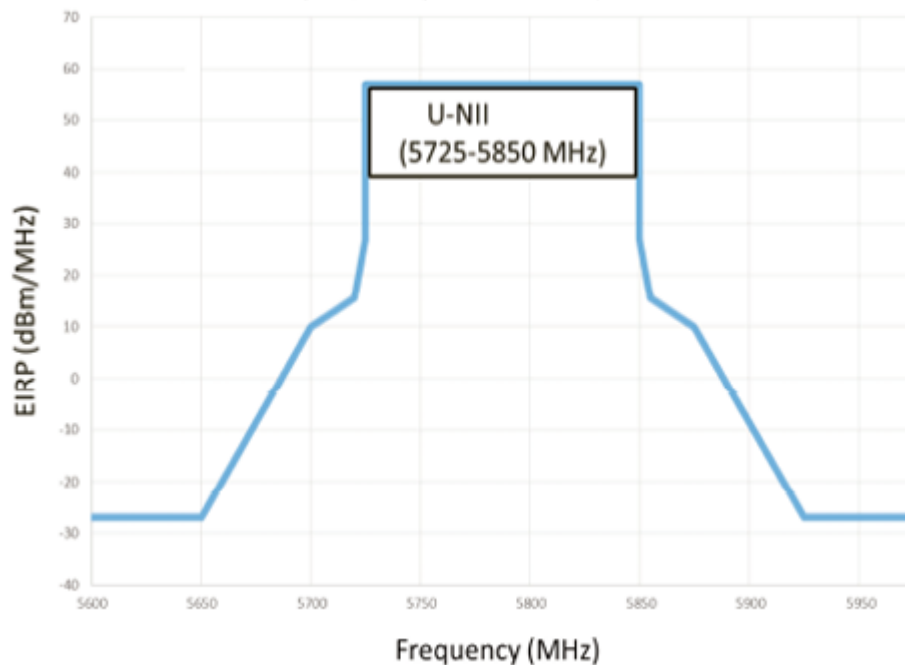
Average Measurement:

- (1) RBW = 1MHz
- (2) VBW = 10Hz(for duty cycle $\geq 98\%$), or
VBW = the value calculated in Appendix B (when duty cycle $<98\%$).
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

4.6.3 Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits

Frequency Band (MHz)	e.i.r.p.		Field Strength (dBμV/m)
	Spurious Domain	Limits (dBm)	
5150~5250	$f \leq 5150$ MHz $f \geq 5350$ MHz	PK: -27	PK: 68.2
5250~5350			
5475~5725	$f \leq 5470$ MHz $f \geq 5725$ MHz		
5725~5850	at 75 MHz or more above or below the band edge	PK: -27	PK: 68.2
	increasing linearly from 75~25MHz above or below the band edge	PK: -27~10	PK: 68.2~105.2
	increasing linearly from 25~5MHz above or below the band edge	PK: 10~15.6	PK: 105.2~110.8
	increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK: 110.8~122.2



Unwanted spurious emissions which fall in the restricted bands as specified in the clause 3.5 of LP0002 must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

Sample Calculation:

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)-Preamplifier Gain(dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Equations:

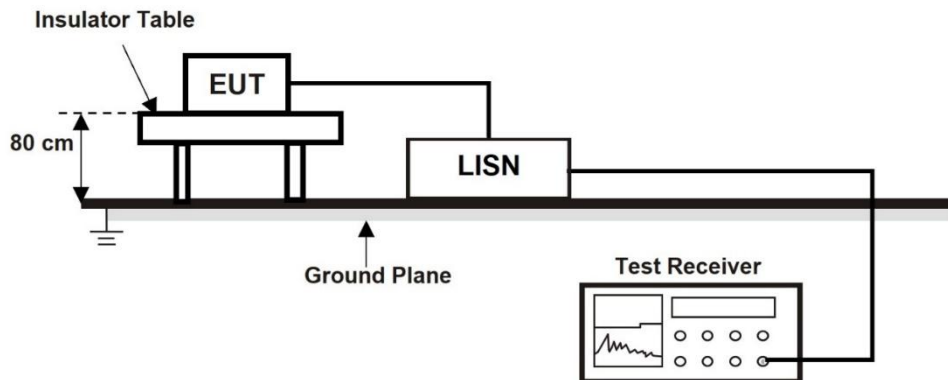
Field Strength @ 3m: e.i.r.p.+95.2 dB

4.6.4 Measurement result

Please refer to Appendix G

4.7 AC Power Line Conducted Emission Measurement

4.7.1 Test Setup



4.7.2 Measurement procedure

- 1) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 μ H of coupling impedance for the measuring instrument.
- 2) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 3) The frequency range from 150 kHz to 30 MHz was scanned. Emission levels more than 20 dB below the limit was not recorded.

4.7.3 Limit

Frequency range MHz	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

4.7.4 Measurement result

Refer to Appendix H

5 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

Item	Measurement Uncertainty			
	Test Site	Description	U	Unit
AC Power Line Conducted Emission	Shielded Room A	0.15 – 30MHz	2.69	dB
Radiated Emission, Horizontal @3m distance	Chamber 966B	9kHz – 30MHz	2.61	dB
		30 – 1000MHz	1.82	dB
		1 – 18GHz	2.11	dB
		18 – 40GHz	2.41	dB
Radiated Emission, Vertical @3m distance	Chamber 966B	9kHz – 30MHz	2.61	dB
		30 – 1000MHz	1.8	dB
		1 – 18GHz	2.11	dB
		18 – 40GHz	2.41	dB
Frequency stability	RF Room	--	± 29	Hz
Bandwidth Measurement	RF Room	6dB BW	± 29.78	kHz
	RF Room	20dB BW	± 46.91	kHz
	RF Room	26dB BW	± 55.99	kHz
	RF Room	99% OBW	± 28.95	kHz
Output Power	RF Room	Spectrum	± 1.44	dB
		Power Sensor	± 0.81	
Power Spectral Density	RF Room	--	± 1.44	dB
Conducted Spurious Emission	RF Room	--	± 1.62	dB

Appendix A. Test Equipment

Radiated Emission Measurement

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Spectrum Analyzer	R&S	FSV3044	101348	2025-07-29	1 Year
Spectrum Analyzer	R&S	ESR 7	102600	2025-08-22	1 Year
Horn (18-40G)	RF SPIN	DRH0844	LE2C01A0844	2024-11-18	1 Year
Horn (1-18G)	RF SPIN	DRH18-E	211218A18EN	2024-10-25	1 Year
Bi-Log Antenna	Schwarzbeck	VULB 9168	01499	2024-11-29	1 Year
Preamplifier (1-18G)	SGH	SGH118-HS	20221230-2	2025-04-24	1 Year
Preamplifier (18-40G)	SGH	SGH184	20230214-9	2025-04-24	1 Year
Preamplifier (30M-1G)	SGH	SGH0301	20230214-1	2025-04-23	1 Year
Loop Antenna	TESEQ	HLA-6121	64165	2025-03-27	1 Year
Test Software	Audix	e3	221118, V9	NCR	NCR

AC Power Line Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
EMI Receiver	R&S	ESR 7	102600	2025-08-22	1 Year
LISN	R&S	ENV216	101517	2024-10-22	1 Year
Test Software	Audix	e3	221118, V9	NCR	NCR.

RF Conducted Measurement

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Spectrum Analyzer	Keysight	N9010B	MY63440384	2025-07-11	1 Year
Power Senso	Anritsu	MA24408A	E1-012047	2025-02-18	1 Year
Temperature humidity chamber	TERCHY	MHK-408LK	1111131	2024-09-10	1 Year
AC Power Supply	KIKUSUI	PCR6000 W EA2RS	EZ003838	2024-12-18	1 Year
Test Software	Anritsu	MA24400A USB Peak Power Sensor	1.1.0.0	NCR	NCR
Test Software	Keysight	IOT0047A	24.11.25.17	NCR	NCR

*: The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.