

FCC PART 15E TEST REPORT FOR CERTIFICATION On Behalf of

Wacebo USA INC

Interactive LED Panel

Model Number: E13R-B86G

Addition Model: E13R-B65G, E13R-B75G

FCC ID: 2BKOR-WRB88T

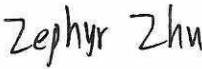
Applicant :	Wacebo USA INC
Address:	8 The Green Ste R, Dover, Delaware, 19901 USA
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

Report Number:	ESTE-R2503276
Date of Test:	Feb. 10, 2025 ~ Mar. 24, 2025
Date of Report:	Mar. 27, 2025

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Applicant:	Wacebo USA INC		
Address:	8 The Green Ste R, Dover, Delaware, 19901 USA		
Manufacturer:	Wacebo USA INC		
Address:	8 The Green Ste R, Dover, Delaware, 19901 USA		
E.U.T:	Interactive LED Panel		
Model Number:	E13R-B86G		
Addition Antenna:	E13R-B65G, E13R-B75G Note: 1. E13R-B65G, E13R-B75G, E13R-B86 model difference is different appearance size, screen size is different. 2. The power board of E13R-B86 is different from that of E13R-B65G and E13R-B75G. 3. The E13R-B65G and E13R-B75G power supply boards differ only in minor components.		
Power Supply:	Input (E13R-B86): AC 100-240V, 50/60Hz, 5.3 ~2.2A Input (E13R-B75): AC 100-240V, 50/60Hz, 5.0 ~2.0A Input (E13R-B65): AC 100-240V, 50/60Hz, 4.6 ~1.9A		
Trade Name:	DABLIU	Serial No.:	-----
Date of Receipt:	Feb.10, 2025	Date of Test:	Feb. 10, 2025 ~ Mar. 24, 2025
Test Specification:	FCC Part 15 Subpart E 15.407 ANSI C63.10:2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 FCC KDB 662911 D01 Multiple Transmitter Output v02r01		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart E requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Mar. 27, 2025		
Prepared by:	Reviewed by:	Approved by:	
			
Zephyr Zhu / Assistant	Seven Wang / Engineer	Iceman Hu / Manager	
Other Aspects: None.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1.GENERAL INFORMATION

1.1.Description of Device (EUT)

FCC ID	:	2BKOR-WRB88T
Product Name	:	Interactive LED Panel
Model Number	:	E13R-B86G
Module Number	:	RTL8852BE
Software Version	:	N/A
Hardware Version	:	N/A
Operation frequency	:	U-NII-1: 5150 MHz~5250 MHz U-NII-2A: 5250 MHz~5350 MHz U-NII-2C: 5470 MHz~5725 MHz U-NII-3: 5725 MHz~5850 MHz
Number of channel	:	U-NII-1: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels; IEEE 802.11ac VHT80 / ax HE80: 1 Channel. U-NII-2A: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels; IEEE 802.11ac VHT80 / ax HE80: 1 Channel. U-NII-2C: IEEE 802.11a / n HT20 / ac VHT20 ax HE20: 11 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 5 Channels; IEEE 802.11ac VHT80 / ax HE80: 2 Channel. U-NII-3: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 5 Channels; IEEE 802.11n HT40 / ac VHT40/ ax HE40: 2 Channels; IEEE 802.11ac VHT8 / ax HE800: 1 Channel.
Modulation	:	OFDM, OFDMA
Transmit Data Rate	:	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps; IEEE 802.11n: up 300Mbps; IEEE 802.11ac: up to 866.6Mbps; IEEE 802.11ax: up to 1201Mbps;
Channels Spacing	:	IEEE 802.11a: 20MHz; IEEE 802.11n HT20: 20MHz; IEEE 802.11n HT40: 40MHz; IEEE 802.11ac VHT20: 20MHz; IEEE 802.11ac VHT40: 40MHz; IEEE 802.11ac VHT80: 80MHz; IEEE 802.11ax HE20: 20MHz; IEEE 802.11ax HE40: 40MHz; IEEE 802.11ax HE80: 80MHz

Transmit Power	:	U-NII-1	IEEE 802.11a: 12.91dBm IEEE 802.11n HT20: 16.50dBm IEEE 802.11n HT40: 16.87dBm IEEE 802.11ac VHT20: 16.37dBm IEEE 802.11ac VHT40: 16.67dBm IEEE 802.11ac VHT80:16.84 dBm IEEE 802.11ax HE20: 16.60dBm IEEE 802.11ax HE40: 16.98dBm IEEE 802.11ax HE80: 16.65dBm
		U-NII-2A	IEEE 802.11a: 12.62dBm IEEE 802.11n HT20: 15.97dBm IEEE 802.11n HT40: 16.01dBm IEEE 802.11ac VHT20: 15.85dBm IEEE 802.11ac VHT40: 15.97dBm IEEE 802.11ac VHT80: 15.58dBm IEEE 802.11ax HE20: 16.12dBm IEEE 802.11ax HE40: 16.01dBm IEEE 802.11ax HE80: 15.47dBm
		U-NII-2C	IEEE 802.11a: 14.27dBm IEEE 802.11n HT20: 17.65dBm IEEE 802.11n HT40: 18.03dBm IEEE 802.11ac VHT20: 17.72dBm IEEE 802.11ac VHT40: 18.28dBm IEEE 802.11ac VHT80: 17.93dBm IEEE 802.11ax HE20: 17.93dBm IEEE 802.11ax HE40: 18.10dBm IEEE 802.11ax HE80: 17.87dBm
		U-NII-3	IEEE 802.11a: 13.98dBm IEEE 802.11n HT20: 17.56dBm IEEE 802.11n HT40: 17.87dBm IEEE 802.11ac VHT20: 17.66dBm IEEE 802.11ac VHT40: 17.95dBm IEEE 802.11ac VHT80: 17.62dBm IEEE 802.11ax HE20: 17.83dBm IEEE 802.11ax HE40: 17.96dBm IEEE 802.11ax HE80: 17.45dBm
Sample Type	:	Prototype production	

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

1.2.The antenna information for EUT

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	5.1
2	-	-	Internal	-	5.1

Remark:

- (1) The EUT can work as CDD mode in IEEE 802.11n and IEEE 802.11ac, IEEE 802.11ax, and can operate with one spatial stream.
According to KDB 662911 F 2) f) (i):
Directional gain= $5.1\text{dBi}+10\times\log(2/1)\text{dB}=8.1\text{dBi}>6\text{dBi}$
So,the output power limit and power spectral density need to be reduced 2.11dB.
- (2) After pre-test all antenna configurations,the worst case configuration as list below.
- (3) The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
- (4) The test results of this report only apply to the sample as received.

TX Mode \ ANT No.	SISO Configuration	MIMO Configuration
IEEE 802.11a	ANT1, ANT2	/
IEEE 802.11n HT20	/	ANT1+ANT2
IEEE 802.11n HT40	/	ANT1+ANT2
IEEE 802.11ac VHT20	/	ANT1+ANT2
IEEE 802.11ac VHT40	/	ANT1+ANT2
IEEE 802.11ac VHT80	/	ANT1+ANT2
IEEE 802.11ax HE20	/	ANT1+ANT2
IEEE 802.11ax HE40	/	ANT1+ANT2
IEEE 802.11ax HE80	/	ANT1+ANT2

1.3.Information of RF Cable

Cable Loss(dB)	Provided by
1.0	Wacebo USA INC
Note: 1.The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received. 2.The laboratory is not responsible for the accuracy of the cable loss.	

2.SUMMARY OF TEST

2.1.Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
2	Maximum Conducted Output Power	15.407(a)	PASS
3	Peak Power Spectral Density	15.407(a)	PASS
4	Unwanted Emissions and Band Edge	15.205 15.209 15.407(b)	PASS
5	Frequency Stability	15.407(g)	PASS
6	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	PASS
7	Antenna Requirement	15.203	PASS

Note:"N/A" denotes test is not applicable in this test report.

2.2.Test Facilities

EMC Lab : Accredited by CNAS, CHINA
Registration No.: L5288
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA
Designation Number: CN1215
This Recognition is valid until: January 31, 2026

Accredited by A2LA, USA
Registration No.: 4366.01
This Accreditation is valid until: January 31, 2026

Recognized by Industry Canada
CAB identifier No.: CN0035
This Recognition is valid until: January 31, 2026

Recognized by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Recognized by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3.Measurement uncertainty for EST Technology Co., Ltd.

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for spurious emissions test (18GHz to 40GHz)	4.67
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB
Temperature	±0.6°C
Humidity	±4.0 %
Volatage DC	±1.0%
Volatage (AC, <10KHz)	±1.5%

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

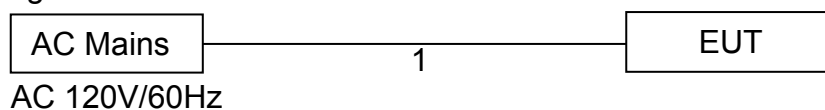
2.4.Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.8m	AC Cable

2.5.Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground.



(EUT: Interactive LED Panel)

2.6.Test Mode

Pre-scan has been combined all possible modulations and data rates to determine the worst case test mode,the worst case test mode was selected for the final test as listed below.

Test Item	Test Mode	Channel	Modulation	Data rate
6dB Bandwidth	IEEE 802.11a	149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	155	OFDMA	MCS0
	IEEE 802.11ax HE20	149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	155	OFDM	MCS0
26dB Bandwidth	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/110/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	MCS0
99% Occupied Bandwidth	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/110/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	MCS0

Maximum Conducted Output Power	IEEE 802.11a	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/110/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	MCS0
Peak Power Spectral Density	IEEE 802.11a	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/110/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	MCS0
Unwanted Emissions and Band Edge(Above 1GHz)	IEEE 802.11a	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/110/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/110/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	MCS0

Unwanted Emissions Below 1GHz	IEEE 802.11a	36	OFDM	6Mbps
Frequency Stability	Unmodulation	36/52/100/149	N/A	N/A
AC Power Line Conducted Emissions	IEEE 802.11a	36	OFDM	6Mbps

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7.Channel List

Band	Mode	Channel	Frequency (MHz)
U-NII-1	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	36	5180
		40	5200
		44	5220
		48	5240
	IEEE 802.11n HT40 & ac VHT40 & ax HE40	38	5190
		46	5230
U-NII-2A	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	42	5210
		52	5260
		56	5280
		60	5300
	IEEE 802.11n HT40 & ac VHT40 & ax HE40	64	5320
		54	5270
U-NII-2C	IEEE 802.11a & n HT20 & ac VHT20& ax HE20	62	5310
		58	5290
		100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
	IEEE 802.11n HT40 & ac VHT40& ax HE40	132	5660
		136	5680
		140	5700
		102	5510
		110	5550
		118	5590
	IEEE 802.11ac VHT80& ax HE80	126	5630
		134	5670
U-NII-3	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	106	5530
		122	5610
		149	5745
		153	5765
		157	5785
	IEEE 802.11n HT40 & ac VHT40& ax HE40	161	5805
		165	5825
	IEEE 802.11ac VHT80& ax HE80	151	5755
		159	5795
		155	5775

2.8.Power Setting of Test Software

Software Name	CMD		
U-NII-1			
Frequency(MHz)	5180	5200	5240
IEEE 802.11a Setting	15,15	15,15	15,15
IEEE 802.11n HT20 Setting	16,16	16,16	16,16
IEEE 802.11ac VHT20 Setting	16,16	16,16	16,16
IEEE 802.11ax HE20 Setting	16,16	16,16	16,16
Frequency(MHz)	5190	5230	
IEEE 802.11n HT40 Setting	16,16	16,16	
IEEE 802.11ac VHT40 Setting	16,16	16,16	
IEEE 802.11ax HE40 Setting	16,16	16,16	
Frequency(MHz)	5210		
IEEE 802.11ac VHT80 Setting	16,16		
IEEE 802.11ax HE80 Setting	16,16		
U-NII-2A			
Frequency(MHz)	5260	5300	5320
IEEE 802.11a Setting	15,15	15,15	15,15
IEEE 802.11n HT20 Setting	16,16	16,16	16,16
IEEE 802.11ac VHT20 Setting	16,16	16,16	16,16
IEEE 802.11ax HE20 Setting	16,16	16,16	16,16
Frequency(MHz)	5270	5310	
IEEE 802.11n HT40 Setting	16,16	16,16	
IEEE 802.11ac VHT40 Setting	16,16	16,16	
IEEE 802.11ax HE40 Setting	5270	5310	
Frequency(MHz)	5290		
IEEE 802.11ac VHT80 Setting	16,16		
IEEE 802.11ax HE80 Setting	16,16		
U-NII-2C			
Frequency(MHz)	5500	5580	5700
IEEE 802.11a Setting	15,15	15,15	15,15
IEEE 802.11n HT20 Setting	16,16	16,16	16,16
IEEE 802.11ac VHT20 Setting	16,16	16,16	16,16
IEEE 802.11ax HE20 Setting	16,16	16,16	16,16
Frequency(MHz)	5510	5550	5670
IEEE 802.11n HT40 Setting	16,16	16,16	16,16
IEEE 802.11ac VHT40 Setting	16,16	16,16	16,16
IEEE 802.11ax HE40 Setting	16,16	16,16	16,16
Frequency(MHz)	5510	5610	
IEEE 802.11ac VHT80 Setting	16,16	16,16	
IEEE 802.11ax HE80 Setting	16,16	16,16	

U-NII-3			
Frequency(MHz)	5745	5785	5825
IEEE 802.11a Setting	15,15	15,15	15,15
IEEE 802.11n HT20 Setting	16,16	16,16	16,16
IEEE 802.11ac VHT20 Setting	16,16	16,16	16,16
IEEE 802.11ax HE20 Setting	16,16	16,16	16,16
Frequency(MHz)	5755	5795	
IEEE 802.11n HT40 Setting	16,16	16,16	
IEEE 802.11ac VHT40 Setting	16,16	16,16	
IEEE 802.11ax HE40 Setting	16,16	16,16	
Frequency(MHz)	5775		
IEEE 802.11ac VHT80 Setting	16,16		
IEEE 802.11ax HE80 Setting	16,16		

Note: This information is provided by the applicant.

2.9.Duty Cycle of Test Signal

Refer to section 10: Appendix B

Note:

1. Duty Cycle=On Time/Total Time×100%.
2. Duty Factor=10×LOG(1/Duty Cycle).
3. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
4. If duty cycle ≥98 %,the EUT is consider to be transmitting continuously,the conducted average output power and average power spectral density no need to add duty factor.
5. The on-time time is transmission duration(T).
6. The VBW Setting is use for RMS measurement in Unwanted Emissions and Band Edge(Above 1GHz) Test.

2.10. Test Equipment List

For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESRP3	EST-E070	LISAI	June 11,24	June 10,25
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E048	LISAI	June 11,24	June 10,25
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 11,24	June 10,25
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	EST-E054	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 11,24	June 10,25
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	LISAI	June 11,24	June 10,25
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 11,24	June 10,25
Low Noise Amplifier	RF	TRLA-010180 G45N	EST-E142	LISAI	June 11,24	June 10,25
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

For connect EUT antenna terminal test

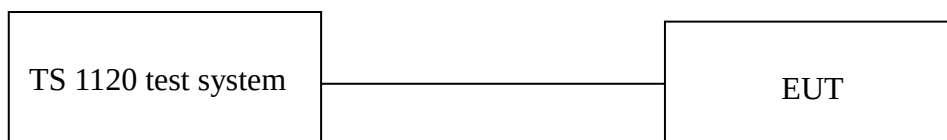
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 11,24	June 10,25
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 11,24	June 10,25

3.6dB BANDWIDTH & 26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

3.1.Limit

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2A	5250-5350	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2C	5470-5725	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth≥500KHz

3.2.Test Setup



3.3.Spectrum Analyzer Setting

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	>RBW
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4.Test Procedure

For 26dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission.Compare this with the RBW setting of the instrument.
Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 6dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, 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.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 99% Occupied Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

3.5.Test Result

Refer to section 10: Appendix A3/A1/A2

4.MAXIMUM CONDUCTED OUTPUT POWER

4.1.Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p $\leq$ 125mW at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W(30dBm)
	Fixed point-to-point Access Point	1W(30dBm)
	Mobile and Portable Client Device	250mW(23.98dBm)
U-NII-2A	All Device	250mW(23.98dBm) or 11dBm+10 log B, Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-2C	All Device	250mW(23.98dBm) or 11dBm+10 log B, Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-3	All Device	1W(30dBm)

Note: For the Band U-NII-2A and U-NII-2C, the maximum conducted output power limit calculate result refer to section 3.5.

4.2.Test Setup



4.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Span	40MHz(20MHz Bandwidth mode) 80MHz(40MHz Bandwidth mode) 160MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	RMS
Trace Mode	Max Hold

4.4.Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.

- d. Use the channel power function to measure maximum peak output power, allow trace to stabilize,
save test pictures.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

4.5.Test Result

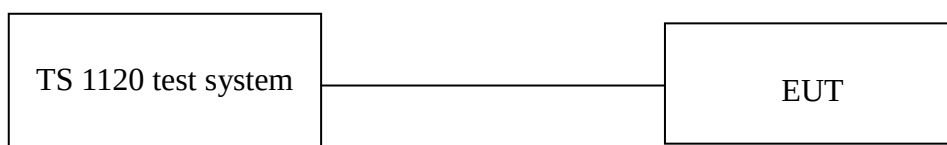
Refer to section 10: Appendix C

5. PEAK POWER SPECTRAL DENSITY

5.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	17dBm/MHz
	Indoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	17dBm/MHz
	Mobile and Portable Client Device	11dBm/MHz
U-NII-2A	All Device	11dBm/MHz
U-NII-2C	All Device	11dBm/MHz
U-NII-3	All Device	30dBm/500KHz

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz(For U-NII-1&U-NII-2A&U-NII-2C) 500KHz(For U-NII-3)
VBW	3MHz(For U-NII-1&U-NII-2A&U-NII-2C) 2MHz(For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN} / \text{RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the average of the emission.
- If the duty cycle of test signal $< 98\%$, the result = max measured value + $10 \times \log(1/\text{duty cycle})$;
If the duty cycle of test signal $\geq 98\%$, the result = max measured value.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

5.5. Test Result

Refer to section 10: Appendix D

6.UNWANTED EMISSIONS AND BAND EDGE

6.1.Limit

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

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: 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.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ 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

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

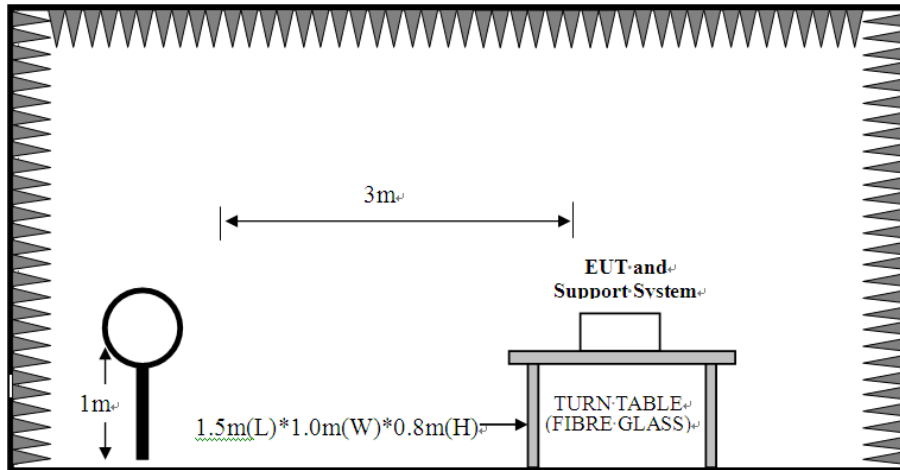
Note:

1. $\text{dB}\mu\text{V}/\text{m} = 20\text{Log}(\mu\text{V}/\text{m})$
2. Above 1GHz the formula is used to convert the EIRP to field strength

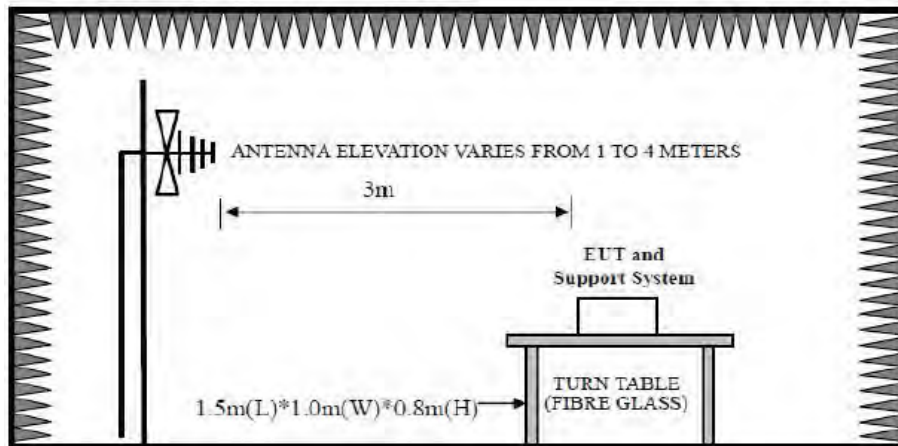
$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log (d[\text{m}]) + 104.77$$
 where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
 for example, 3m field strength($\text{dB}\mu\text{V}/\text{m}$)= $\text{EIRP}-20\log(3)+104.77=\text{EIRP}+95.2$

6.2.Test Setup

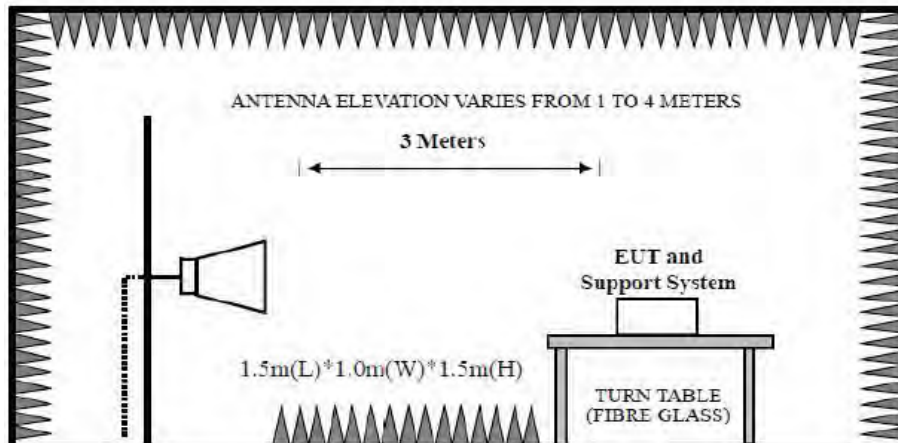
9kHz~30MHz



30~1000MHz



Above 1GHz



6.3.Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle≥98%,VBW=10Hz Duty cycle<98%,VBW≥1/T Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	

Detector	PEAK
Trace Mode	Max Hold

Note : T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.7 for the on-time time.

6.4.Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 6.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.
- i. IEEE 802.11a, IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80, IEEE 802.11ax HE20, IEEE 802.11 ax HE40, IEEE 802.11 ax HE80 all have been tested, only worst case 802.11ax HE20 is recorded.

6.5.Test Result

Radiated Emissions Below 1GHz

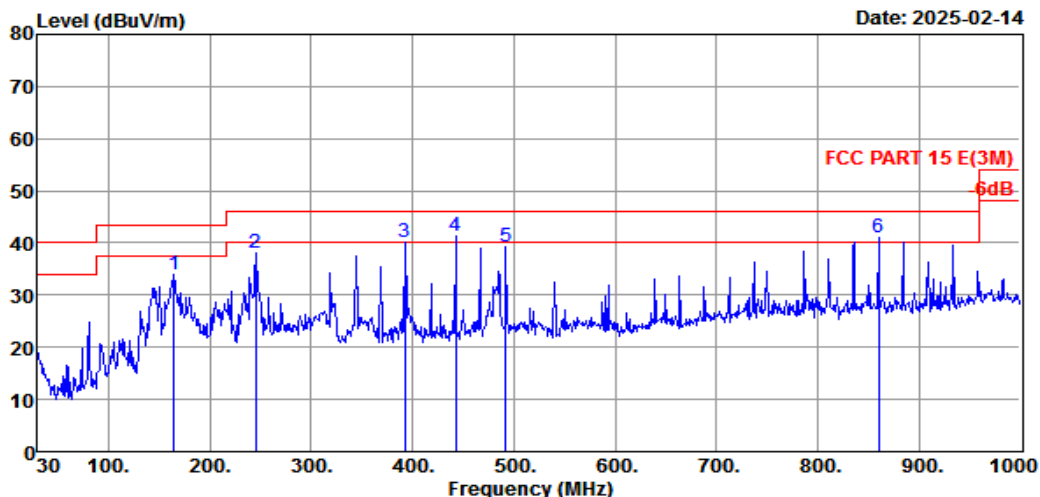
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Data: 11

File: \\EMC-966-2\\test data\\2025\\RF\\W\\E13R-B65G.EM6 (56)

Date: 2025-02-14



Site no. : 2# 966 chamber Data no. : 11
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:18.2℃,Humi:52%;Press:101.82KPa
Engineer : Ennis Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B65G
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	164.83	9.80	1.63	22.44	33.87	43.50	9.63	QP
2	245.34	11.90	1.95	24.36	38.21	46.00	7.79	QP
3	392.78	15.52	2.54	22.16	40.22	46.00	5.78	QP
4	442.25	16.66	2.78	21.82	41.26	46.00	4.74	QP
5	491.72	17.56	3.04	18.81	39.41	46.00	6.59	QP
6	860.32	22.60	4.09	14.20	40.89	46.00	5.11	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

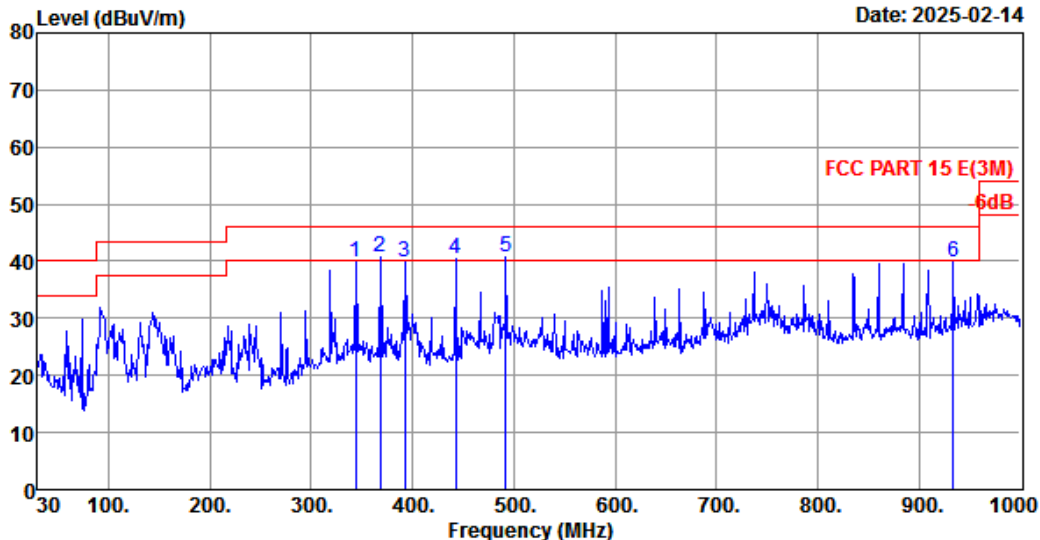
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Data: 12

File: \\EMC-966-2\\test data\\2025\\RF\\WIE13R-B65G.EM6 (56)

Date: 2025-02-14



Site no. : 2# 966 chamber Data no. : 12
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:18.2°C,Humi:52%;Press:101.82KPa
Engineer : Ennis Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B65G
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	344.28	14.22	2.38	23.14	39.74	46.00	6.26	QP
2	368.53	14.53	2.47	23.67	40.67	46.00	5.33	QP
3	392.78	15.52	2.54	21.75	39.81	46.00	6.19	QP
4	442.25	16.66	2.78	21.13	40.57	46.00	5.43	QP
5	491.72	17.56	3.04	20.24	40.84	46.00	5.16	QP
6	934.04	23.24	4.45	12.26	39.95	46.00	6.05	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

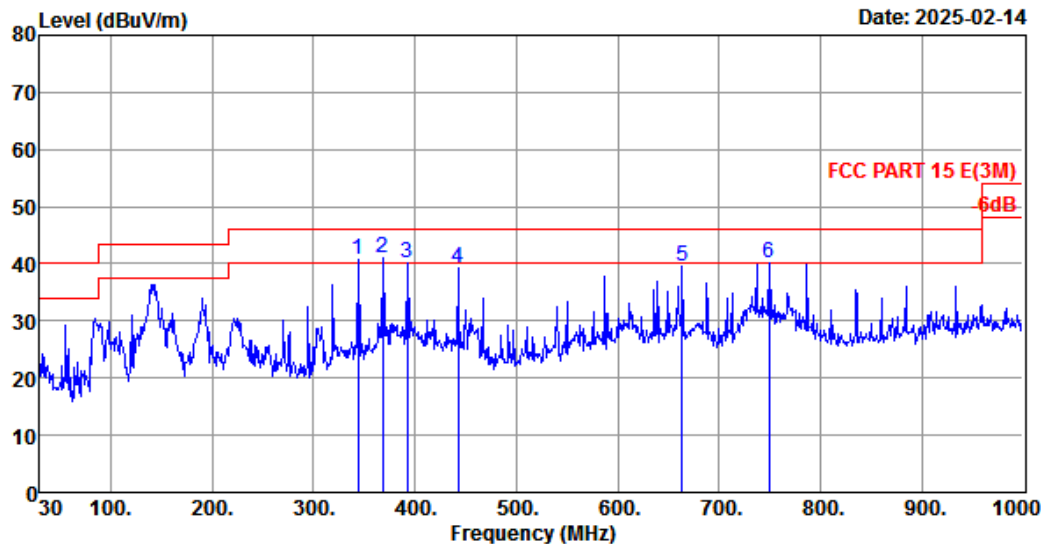
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Data: 11

File: \\EMC-966-2\\test data\\2025\\RF\\WE13R-B75G.EM6 (54)

Date: 2025-02-14



Site no. : 2# 966 chamber Data no. : 11
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:18.2℃, Humi:52%; Press:101.82KPa
Engineer : Ennis Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B75G
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	344.28	14.22	2.38	24.06	40.66	46.00	5.34	QP
2	368.53	14.53	2.47	24.00	41.00	46.00	5.00	QP
3	392.78	15.52	2.54	22.10	40.16	46.00	5.84	QP
4	442.25	16.66	2.78	19.82	39.26	46.00	6.74	QP
5	663.41	20.03	3.81	15.60	39.44	46.00	6.56	QP
6	749.74	21.80	3.89	14.46	40.15	46.00	5.85	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

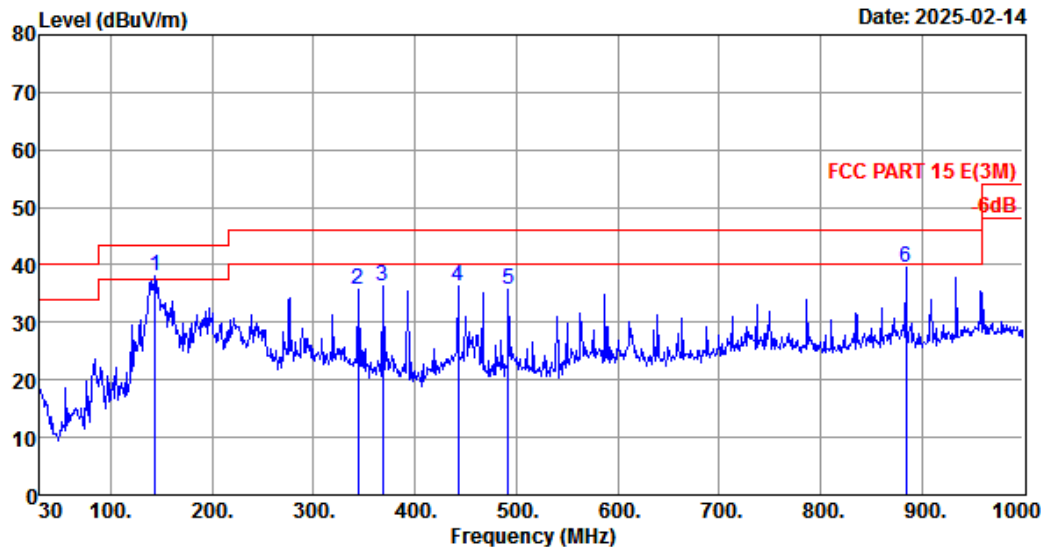
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Data: 12

File: \\EMC-966-2\\test data\\2025\\RF\\WE13R-B75G.EM6 (54)

Date: 2025-02-14



Site no. : 2# 966 chamber Data no. : 12
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:18.2℃, Humi:52%; Press:101.82KPa
Engineer : Ennis Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B75G
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.49	11.85	1.51	24.71	38.07	43.50	5.43	QP
2	344.28	14.22	2.38	19.13	35.73	46.00	10.27	QP
3	368.53	14.53	2.47	19.45	36.45	46.00	9.55	QP
4	442.25	16.66	2.78	16.75	36.19	46.00	9.81	QP
5	491.72	17.56	3.04	15.04	35.64	46.00	10.36	QP
6	884.57	22.70	4.18	12.77	39.65	46.00	6.35	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

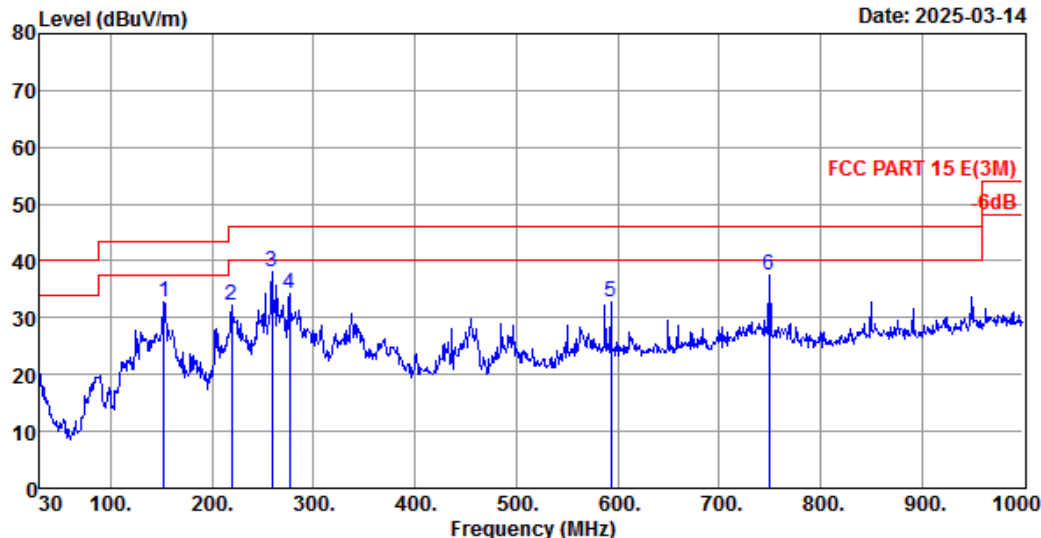
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Data: 35

File: \\EMC-966-2\\test data\\2025\\RF\\W\\E13R-B86G.EM6 (44)

Date: 2025-03-14



Site no. : 2# 966 chamber Data no. : 35
Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:22.2℃,Humi:56%;Press:101.2KPa
Engineer : Jonas Ye
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	152.22	10.80	1.57	20.47	32.84	43.50	10.66	QP
2	219.15	8.92	1.85	21.50	32.27	46.00	13.73	QP
3	258.92	13.76	2.01	22.27	38.04	46.00	7.96	QP
4	276.38	12.48	2.09	19.59	34.16	46.00	11.84	QP
5	593.57	19.72	3.60	9.38	32.70	46.00	13.30	QP
6	749.74	21.80	3.89	11.77	37.46	46.00	8.54	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

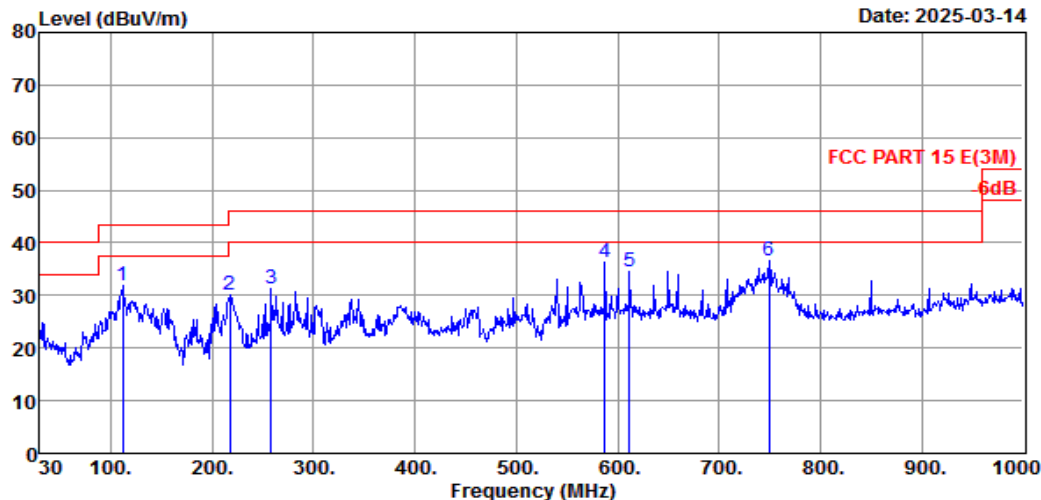
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Data: 36

File: \\EMC-966-2\\test data\\2025\\RF\\W\\E13R-B86G.EM6 (44)

Date: 2025-03-14



Site no. : 2# 966 chamber Data no. : 36
Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:22.2℃, Humi:56%; Press:101.2KPa
Engineer : Jonas Ye
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	111.48	10.50	1.30	20.16	31.96	43.50	11.54	QP
2	217.21	8.76	1.84	19.56	30.16	46.00	15.84	QP
3	257.95	13.62	2.01	15.61	31.24	46.00	14.76	QP
4	587.75	19.84	3.56	12.84	36.24	46.00	9.76	QP
5	612.00	19.56	3.66	11.46	34.68	46.00	11.32	QP
6	749.74	21.80	3.89	10.85	36.54	46.00	9.46	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

Radiated Emissions Above 1G

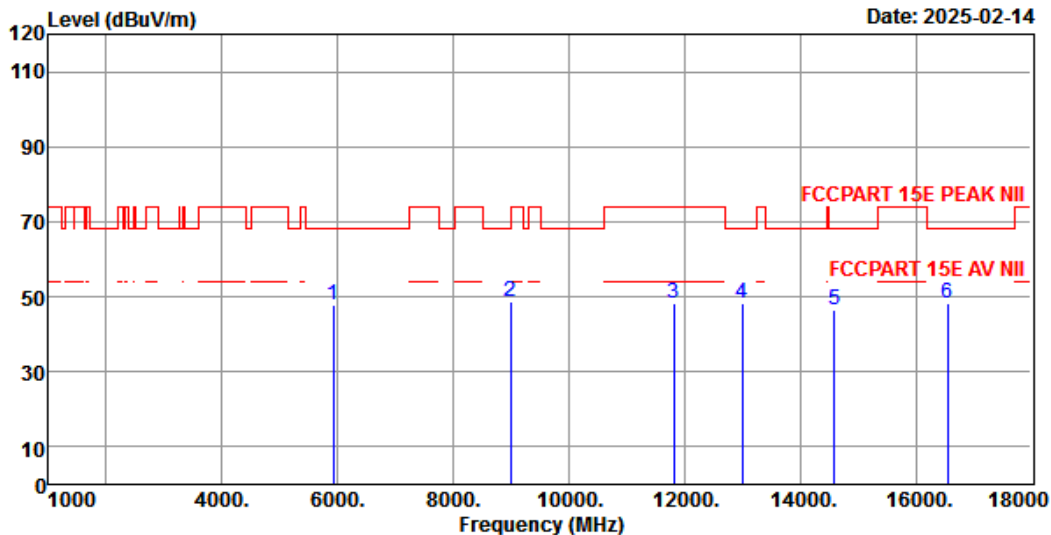
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Data: 65

File: \\EMC-966-1\test data\2025\RF\W\WACEBOIE13R-B86G(RTL8852BE).EM6 (116)

Date: 2025-02-14



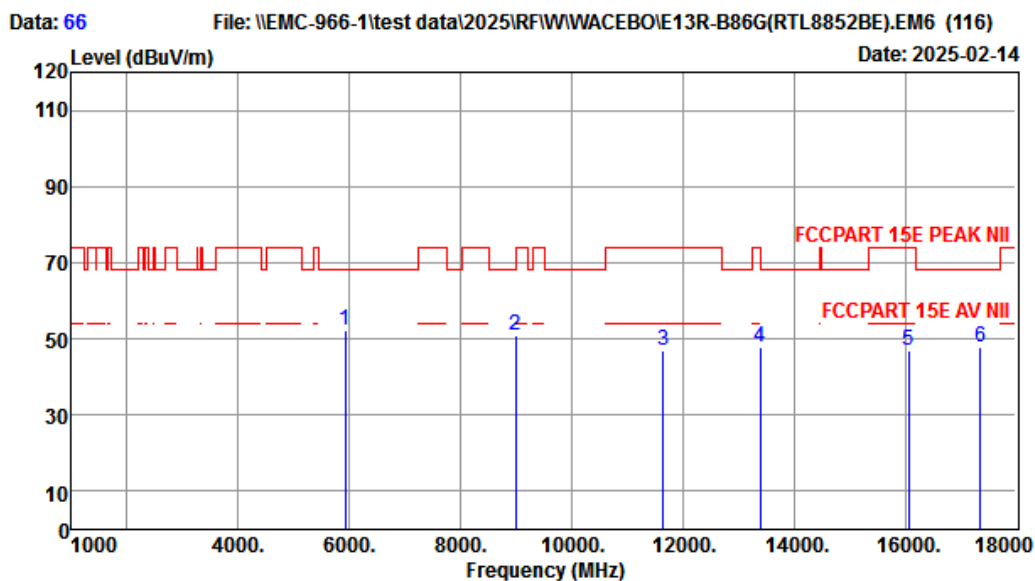
Site no. : 1# 966 Chamber Data no. : 65
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5930.00	34.93	5.80	42.82	50.13	48.04	68.20	20.16	Peak
2	8990.00	38.00	7.40	42.31	45.64	48.73	68.20	19.47	Peak
3	11812.00	39.42	9.09	40.86	40.46	48.11	74.00	25.89	Peak
4	13002.00	40.20	9.44	39.40	38.22	48.46	68.20	19.74	Peak
5	14600.00	39.00	9.72	41.55	39.53	46.70	68.20	21.50	Peak
6	16555.00	39.75	11.82	42.69	39.29	48.17	68.20	20.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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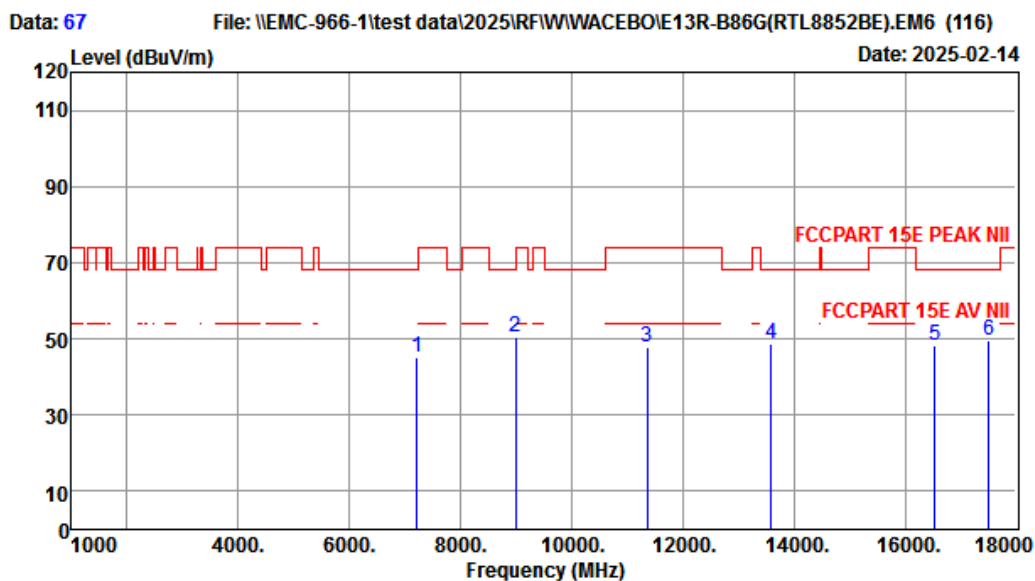
Site no. : 1# 966 Chamber Data no. : 66
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5930.00	34.93	5.80	42.82	54.43	52.34	68.20	15.86	Peak
2	8990.00	38.00	7.40	42.31	47.67	50.76	68.20	17.44	Peak
3	11642.00	39.66	8.94	40.91	39.22	46.91	74.00	27.09	Peak
4	13393.00	40.70	9.59	39.75	37.45	47.99	74.00	26.01	Peak
5	16062.00	38.53	11.00	42.79	40.05	46.79	74.00	27.21	Peak
6	17354.00	39.50	12.96	42.14	37.71	48.03	68.20	20.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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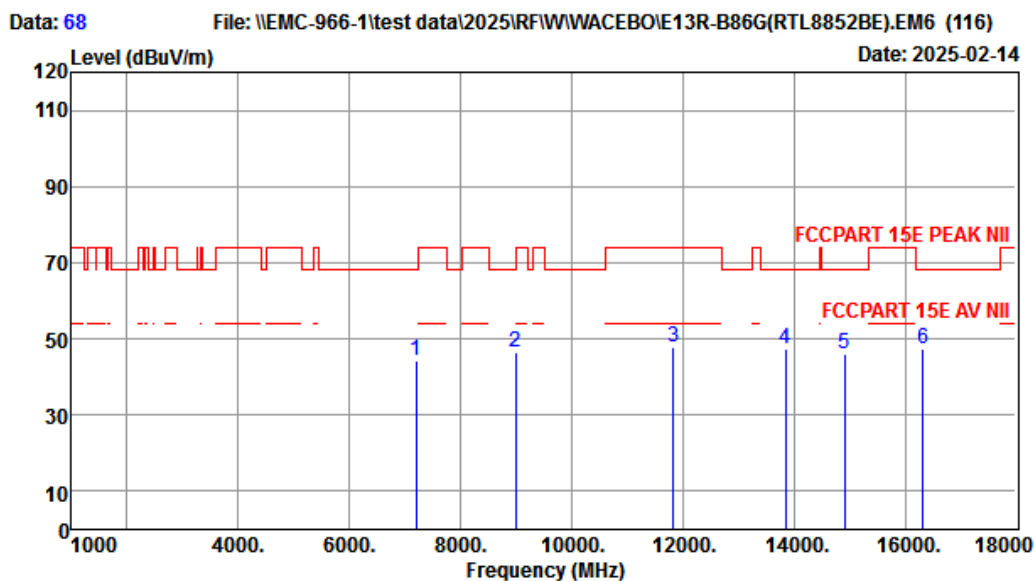
Site no. : 1# 966 Chamber Data no. : 67
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7222.00	37.47	6.84	42.90	43.70	45.11	68.20	23.09	Peak
2	8990.00	38.00	7.40	42.31	47.23	50.32	68.20	17.88	Peak
3	11353.00	40.00	8.69	40.99	39.98	47.68	74.00	26.32	Peak
4	13597.00	40.90	9.67	39.93	38.25	48.89	68.20	19.31	Peak
5	16538.00	39.70	11.80	42.69	39.66	48.47	68.20	19.73	Peak
6	17507.00	40.20	13.12	41.94	38.12	49.50	68.20	18.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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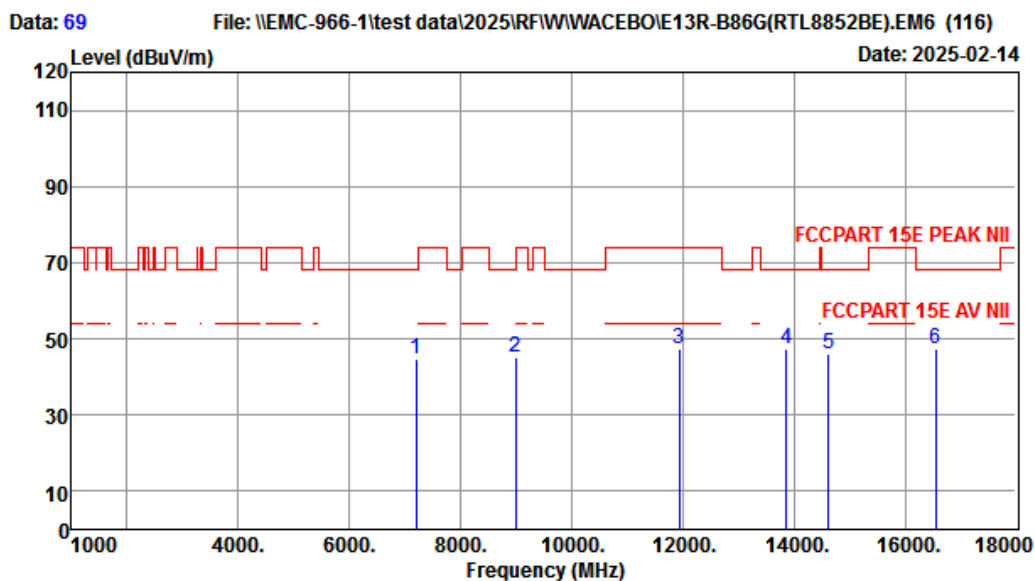
Site no. : 1# 966 Chamber Data no. : 68
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	6.84	42.90	42.59	44.33	68.20	23.87	Peak
2	8990.00	38.00	7.40	42.31	43.22	46.31	68.20	21.89	Peak
3	11829.00	39.43	9.11	40.85	39.92	47.61	74.00	26.39	Peak
4	13852.00	40.30	9.77	40.16	37.36	47.27	68.20	20.93	Peak
5	14906.00	38.80	9.67	42.19	39.92	46.20	68.20	22.00	Peak
6	16317.00	38.65	11.43	42.74	40.02	47.36	68.20	20.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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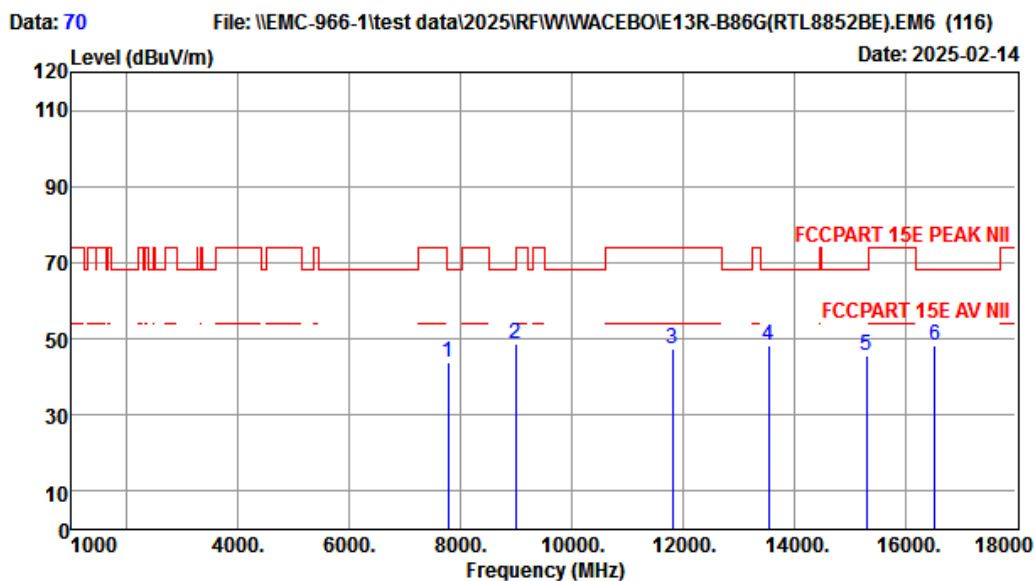
Site no. : 1# 966 Chamber Data no. : 69
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	6.84	42.90	43.19	44.93	68.20	23.27	Peak
2	8990.00	38.00	7.40	42.31	42.29	45.38	68.20	22.82	Peak
3	11931.00	39.50	9.20	40.82	39.35	47.23	74.00	26.77	Peak
4	13869.00	40.37	9.78	40.18	37.53	47.50	68.20	20.70	Peak
5	14617.00	38.98	9.72	41.58	39.13	46.25	68.20	21.95	Peak
6	16555.00	39.75	11.82	42.69	38.40	47.28	68.20	20.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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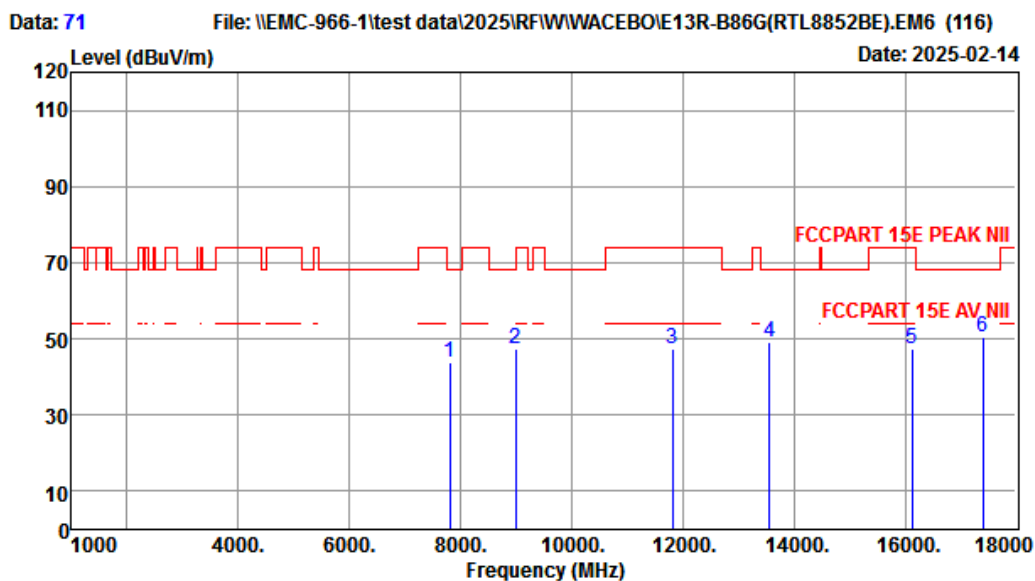
Site no. : 1# 966 Chamber Data no. : 70
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7783.00	37.20	6.88	42.90	42.66	43.84	68.20	24.36	Peak
2	8990.00	38.00	7.40	42.31	45.73	48.82	68.20	19.38	Peak
3	11812.00	39.42	9.09	40.86	39.67	47.32	74.00	26.68	Peak
4	13546.00	41.00	9.65	39.89	37.60	48.36	68.20	19.84	Peak
5	15314.00	38.22	10.03	42.52	40.09	45.82	68.20	22.38	Peak
6	16538.00	39.70	11.80	42.69	39.39	48.20	68.20	20.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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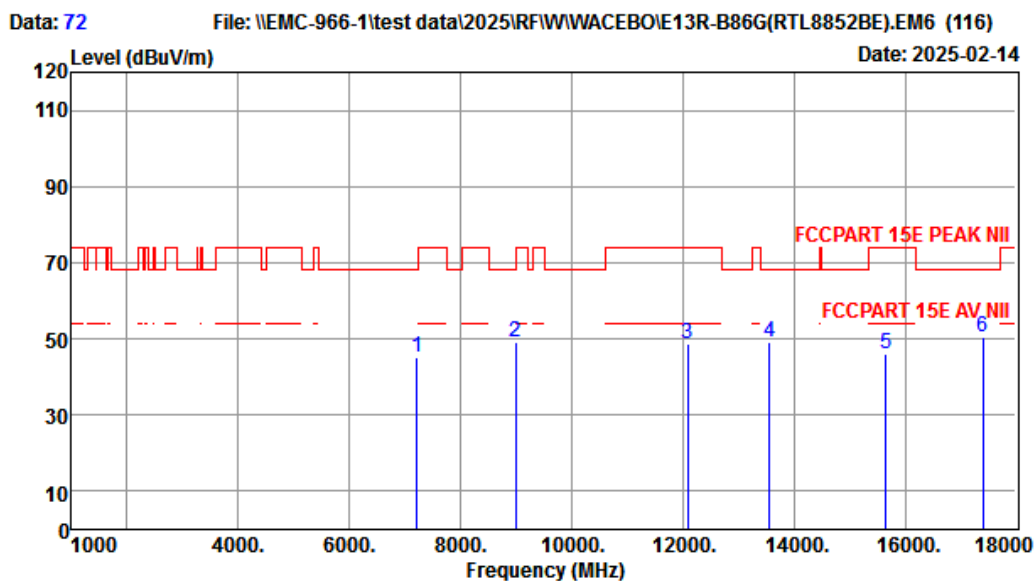
Site no. : 1# 966 Chamber Data no. : 71
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7800.00	37.40	6.88	42.90	42.29	43.67	68.20	24.53	Peak
2	8990.00	38.00	7.40	42.31	44.26	47.35	68.20	20.85	Peak
3	11812.00	39.42	9.09	40.86	39.54	47.19	74.00	26.81	Peak
4	13563.00	40.97	9.66	39.90	38.38	49.11	68.20	19.09	Peak
5	16130.00	38.83	11.12	42.77	40.19	47.37	74.00	26.63	Peak
6	17405.00	40.20	13.01	42.07	39.47	50.61	68.20	17.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 72
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7222.00	37.47	6.84	42.90	43.71	45.12	68.20	23.08	Peak
2	8990.00	38.00	7.40	42.31	46.25	49.34	68.20	18.86	Peak
3	12084.00	39.33	9.28	40.68	40.65	48.58	74.00	25.42	Peak
4	13563.00	40.97	9.66	39.90	38.38	49.11	68.20	19.09	Peak
5	15654.00	37.60	10.46	42.66	40.61	46.01	74.00	27.99	Peak
6	17405.00	40.20	13.01	42.07	39.47	50.61	68.20	17.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

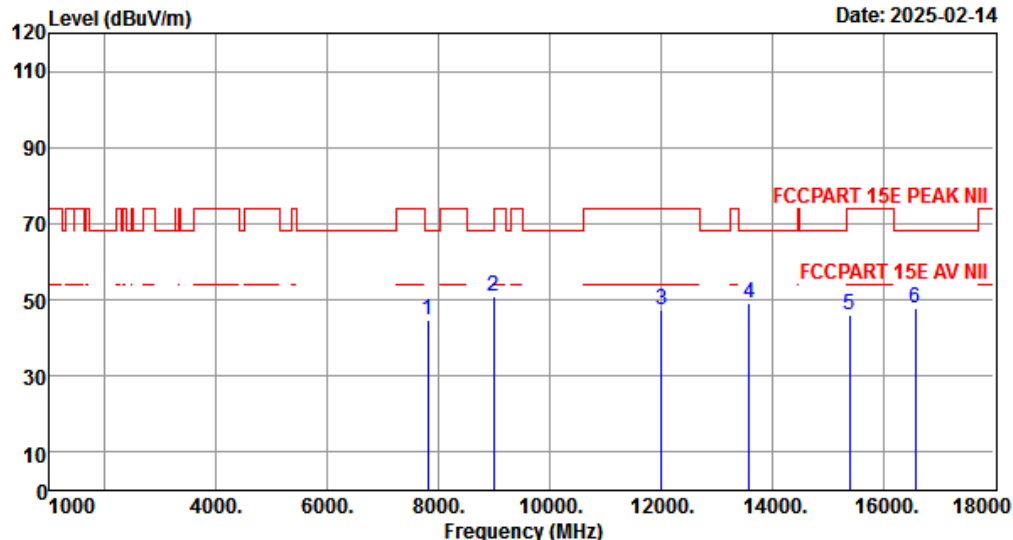
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Data: 73

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Date: 2025-02-14



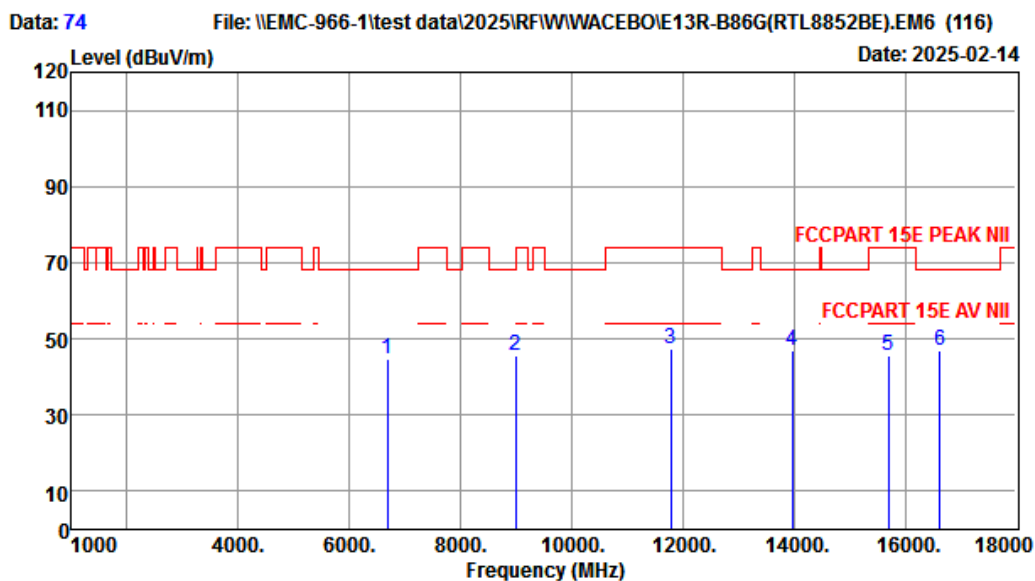
Site no. : 1# 966 Chamber Data no. : 73
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7800.00	37.40	6.88	42.90	43.18	44.56	68.20	23.64	Peak
2	8990.00	38.00	7.40	42.31	47.73	50.82	68.20	17.38	Peak
3	12016.00	39.47	9.26	40.78	39.46	47.41	74.00	26.59	Peak
4	13597.00	40.90	9.67	39.93	38.29	48.93	68.20	19.27	Peak
5	15399.00	37.80	10.14	42.56	40.65	46.03	74.00	27.97	Peak
6	16589.00	39.85	11.88	42.68	38.73	47.78	68.20	20.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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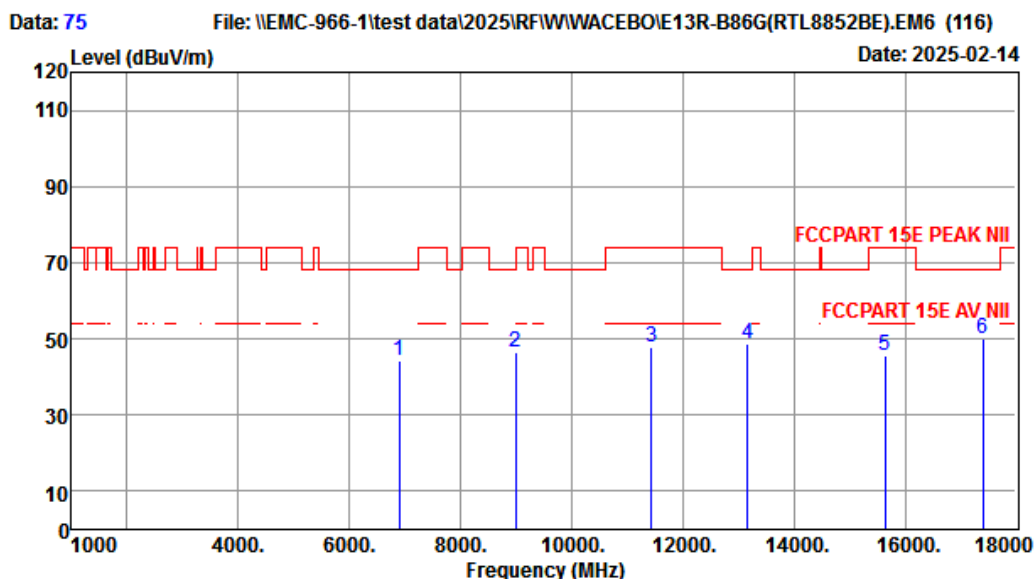
Site no. : 1# 966 Chamber Data no. : 74
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6678.00	36.60	6.51	42.87	44.39	44.63	68.20	23.57	Peak
2	8990.00	38.00	7.40	42.31	42.34	45.43	68.20	22.77	Peak
3	11778.00	39.38	9.06	40.87	39.60	47.17	74.00	26.83	Peak
4	13971.00	40.37	9.82	40.27	37.19	47.11	68.20	21.09	Peak
5	15705.00	37.70	10.53	42.68	39.86	45.41	74.00	28.59	Peak
6	16623.00	39.67	11.94	42.67	38.05	46.99	68.20	21.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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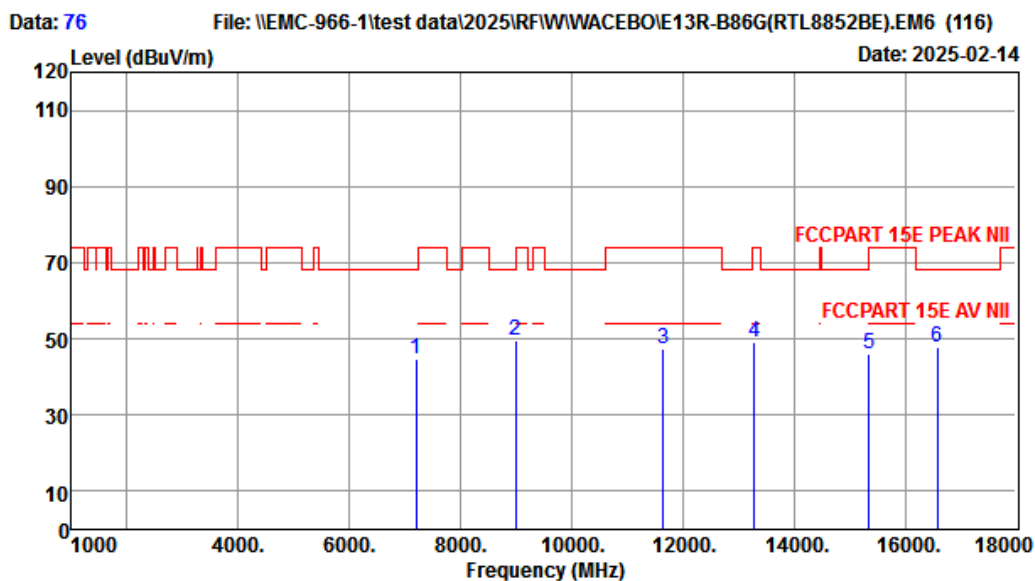
Site no. : 1# 966 Chamber Data no. : 75
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6899.00	36.40	6.73	42.89	44.00	44.24	68.20	23.96	Peak
2	8990.00	38.00	7.40	42.31	43.60	46.69	68.20	21.51	Peak
3	11438.00	40.30	8.76	40.97	39.85	47.94	74.00	26.06	Peak
4	13172.00	40.53	9.51	39.55	38.35	48.84	68.20	19.36	Peak
5	15637.00	37.57	10.44	42.66	40.43	45.78	74.00	28.22	Peak
6	17405.00	40.20	13.01	42.07	38.71	49.85	68.20	18.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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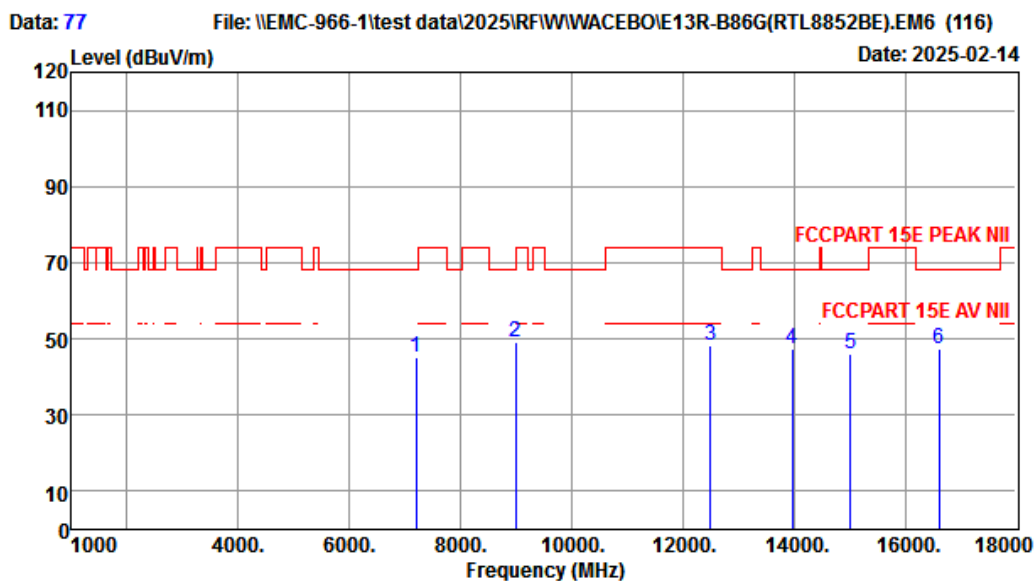
Site no. : 1# 966 Chamber Data no. : 76
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	6.84	42.90	43.10	44.84	68.20	23.36	Peak
2	8990.00	38.00	7.40	42.31	46.31	49.40	68.20	18.80	Peak
3	11642.00	39.66	8.94	40.91	39.62	47.31	74.00	26.69	Peak
4	13291.00	40.28	9.55	39.66	38.95	49.12	74.00	24.88	Peak
5	15348.00	38.05	10.08	42.54	40.42	46.01	68.20	22.19	Peak
6	16589.00	39.85	11.88	42.68	38.69	47.74	68.20	20.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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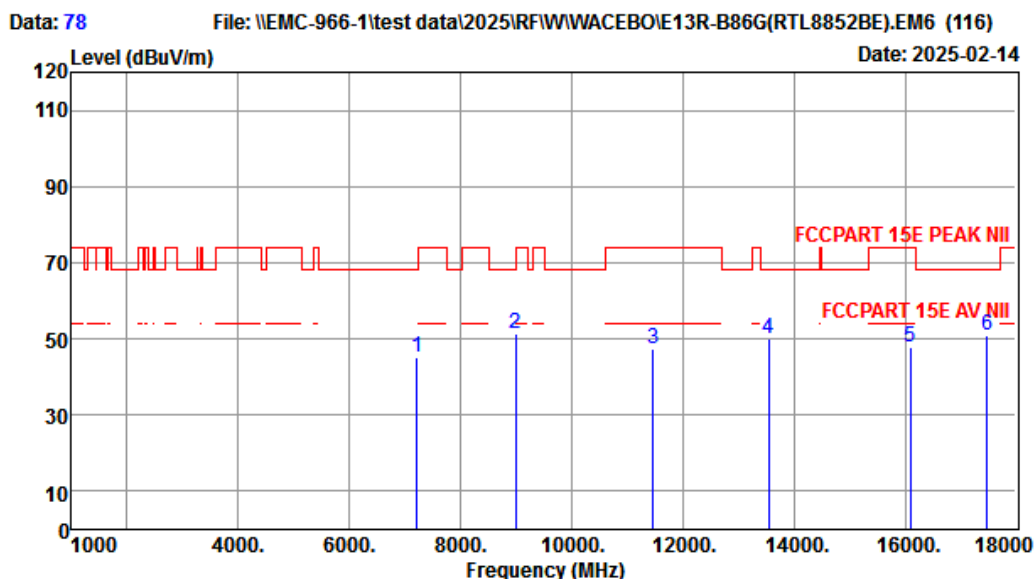
Site no. : 1# 966 Chamber Data no. : 77
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	6.84	42.90	43.24	44.98	68.20	23.22	Peak
2	8990.00	38.00	7.40	42.31	45.89	48.98	68.20	19.22	Peak
3	12492.00	39.40	9.35	40.11	39.63	48.27	74.00	25.73	Peak
4	13971.00	40.37	9.82	40.27	37.60	47.52	68.20	20.68	Peak
5	15025.00	38.20	9.67	42.41	40.61	46.07	68.20	22.13	Peak
6	16606.00	39.90	11.91	42.68	38.42	47.55	68.20	20.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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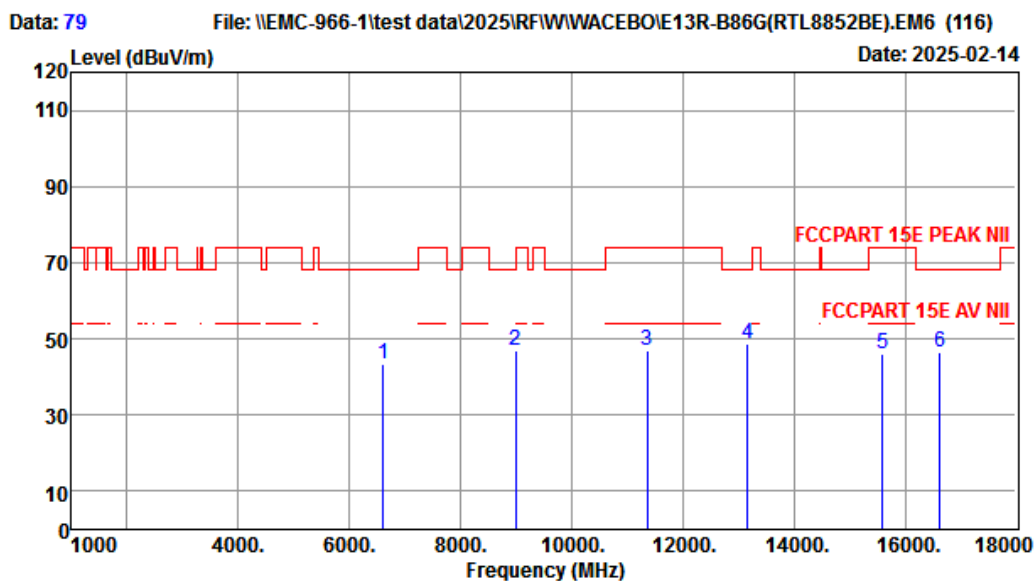
Site no. : 1# 966 Chamber Data no. : 78
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7222.00	37.47	6.84	42.90	43.95	45.36	68.20	22.84	Peak
2	8990.00	38.00	7.40	42.31	48.07	51.16	68.20	17.04	Peak
3	11472.00	40.30	8.79	40.96	39.39	47.52	74.00	26.48	Peak
4	13546.00	41.00	9.65	39.89	39.16	49.92	68.20	18.28	Peak
5	16096.00	38.90	11.06	42.78	40.43	47.61	74.00	26.39	Peak
6	17473.00	40.20	13.09	41.98	39.46	50.77	68.20	17.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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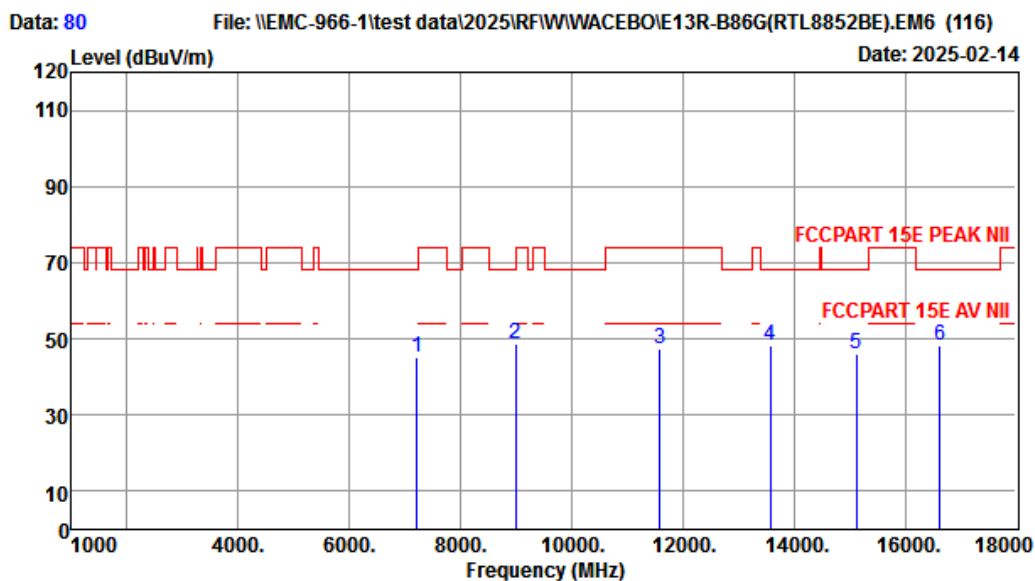
Site no. : 1# 966 Chamber Data no. : 79
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6610.00	36.47	6.45	42.86	43.40	43.46	68.20	24.74	Peak
2	8990.00	38.00	7.40	42.31	43.69	46.78	68.20	21.42	Peak
3	11353.00	40.00	8.69	40.99	39.33	47.03	74.00	26.97	Peak
4	13172.00	40.53	9.51	39.55	38.08	48.57	68.20	19.63	Peak
5	15603.00	37.50	10.40	42.64	40.63	45.89	74.00	28.11	Peak
6	16623.00	39.67	11.94	42.67	37.53	46.47	68.20	21.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 80
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7222.00	37.47	6.84	42.90	43.86	45.27	68.20	22.93	Peak
2	8990.00	38.00	7.40	42.31	45.59	48.68	68.20	19.52	Peak
3	11591.00	39.97	8.90	40.92	39.42	47.37	74.00	26.63	Peak
4	13580.00	40.93	9.66	39.92	37.42	48.09	68.20	20.11	Peak
5	15127.00	38.50	9.80	42.45	40.41	46.26	68.20	21.94	Peak
6	16623.00	39.67	11.94	42.67	39.18	48.12	68.20	20.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

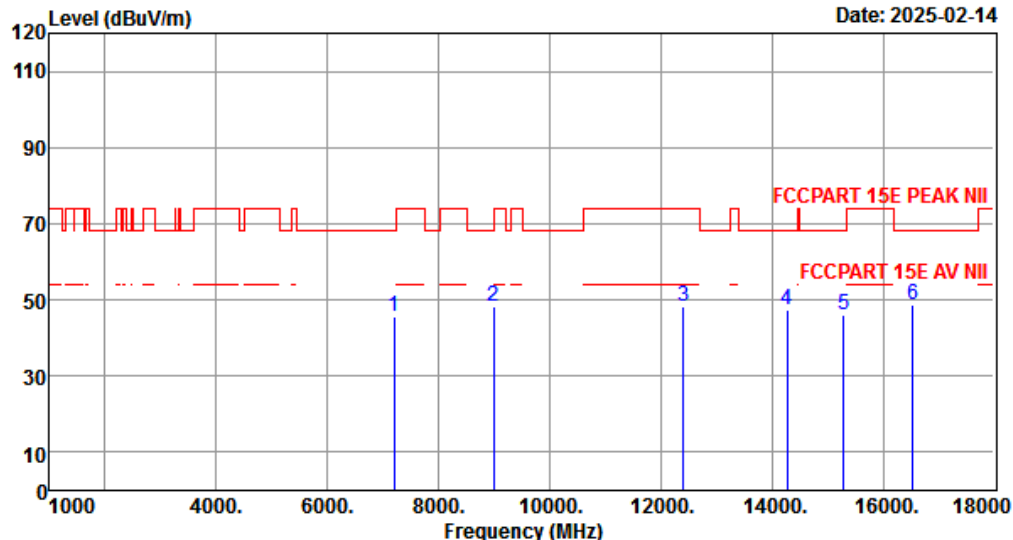
EST Technology

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Data: 81

File: \\EMC-966-1\\test data\\2025\\RF\\WWACEBO\\E13R-B86G(RTL8852BE).EM6 (116)

Date: 2025-02-14



Site no. : 1# 966 Chamber Data no. : 81
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	6.84	42.90	43.98	45.72	68.20	22.48	Peak
2	8990.00	38.00	7.40	42.31	45.20	48.29	68.20	19.91	Peak
3	12407.00	39.40	9.33	40.23	39.76	48.26	74.00	25.74	Peak
4	14277.00	40.18	9.78	40.87	38.26	47.35	68.20	20.85	Peak
5	15297.00	38.30	10.01	42.52	40.19	45.98	68.20	22.22	Peak
6	16538.00	39.70	11.80	42.69	39.80	48.61	68.20	19.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

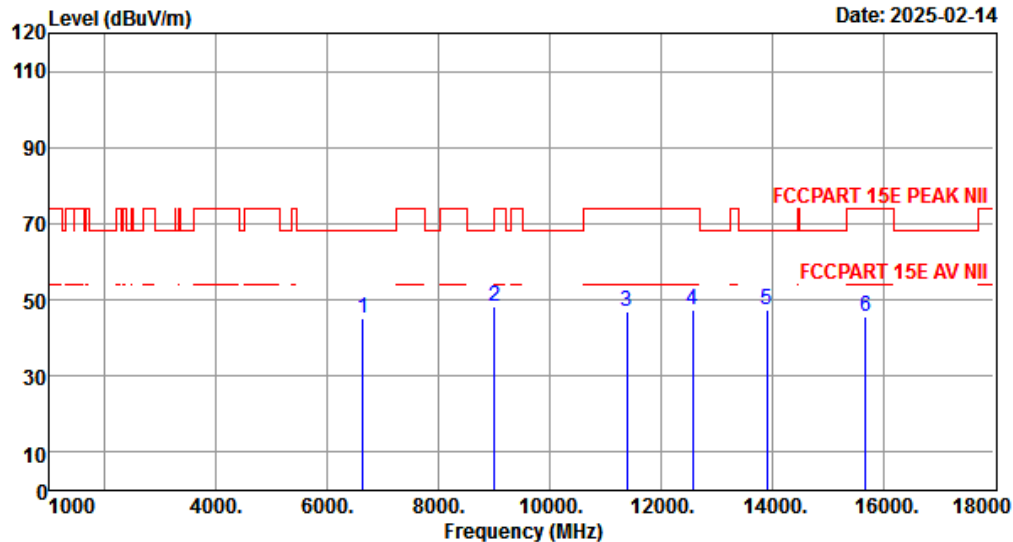
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Data: 82

File: \\EMC-966-1\\test data\\2025\\RF\\WWACEBO\\E13R-B86G(RTL8852BE).EM6 (116)

Date: 2025-02-14



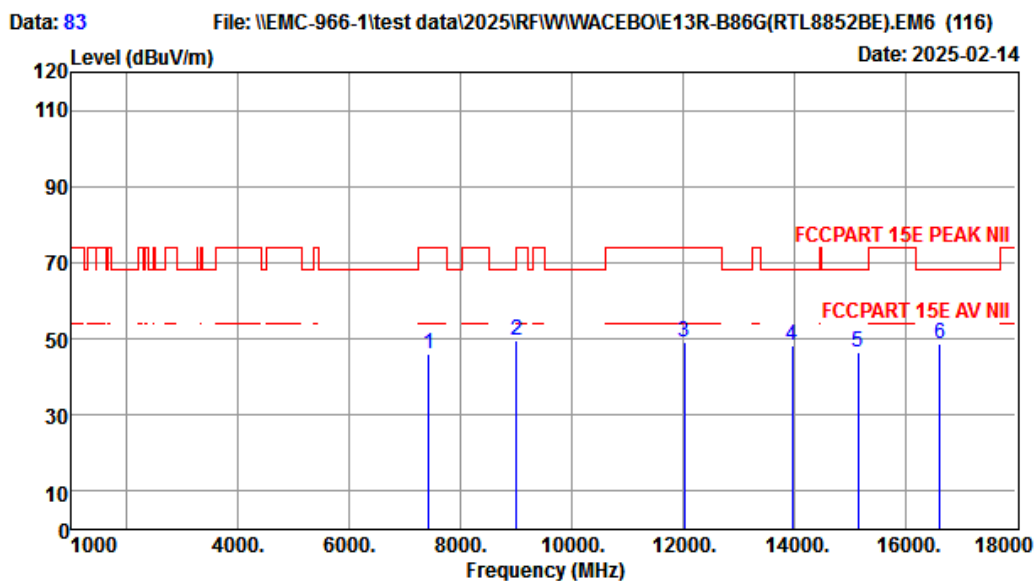
Site no. : 1# 966 Chamber Data no. : 82
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6644.00	36.80	6.48	42.86	44.57	44.99	68.20	23.21	Peak
2	9007.00	37.90	7.41	42.30	45.21	48.22	74.00	25.78	Peak
3	11387.00	40.20	8.72	40.98	38.84	46.78	74.00	27.22	Peak
4	12577.00	39.40	9.36	39.99	38.75	47.52	74.00	26.48	Peak
5	13903.00	40.50	9.79	40.21	37.33	47.41	68.20	20.79	Peak
6	15688.00	37.67	10.51	42.68	40.20	45.70	74.00	28.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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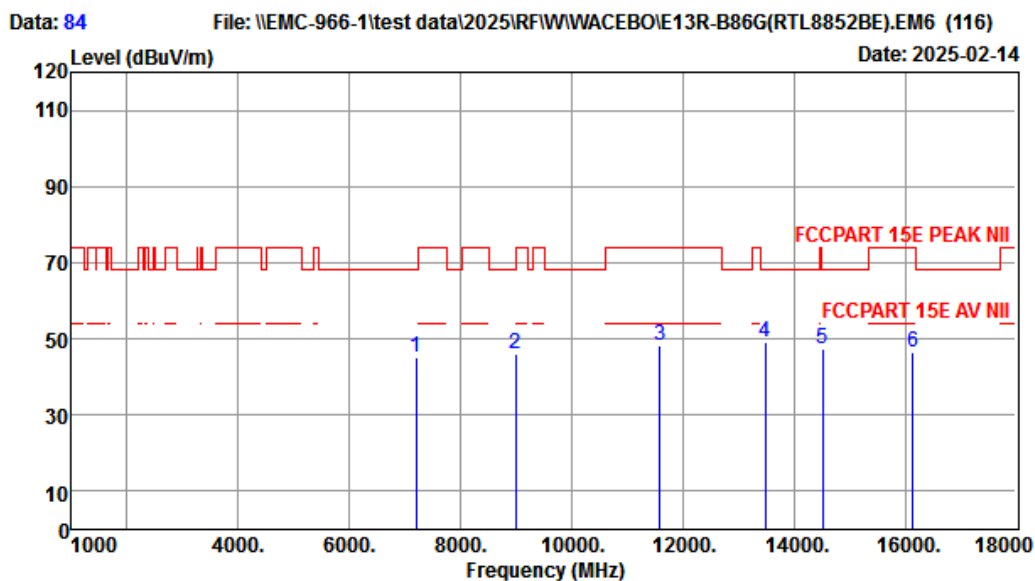
Site no. : 1# 966 Chamber Data no. : 83
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7426.00	36.50	6.86	42.90	45.41	45.87	74.00	28.13	Peak
2	9007.00	37.90	7.41	42.30	46.58	49.59	74.00	24.41	Peak
3	12033.00	39.43	9.27	40.75	41.12	49.07	74.00	24.93	Peak
4	13971.00	40.37	9.82	40.27	38.30	48.22	68.20	19.98	Peak
5	15161.00	38.40	9.84	42.46	40.60	46.38	68.20	21.82	Peak
6	16623.00	39.67	11.94	42.67	39.68	48.62	68.20	19.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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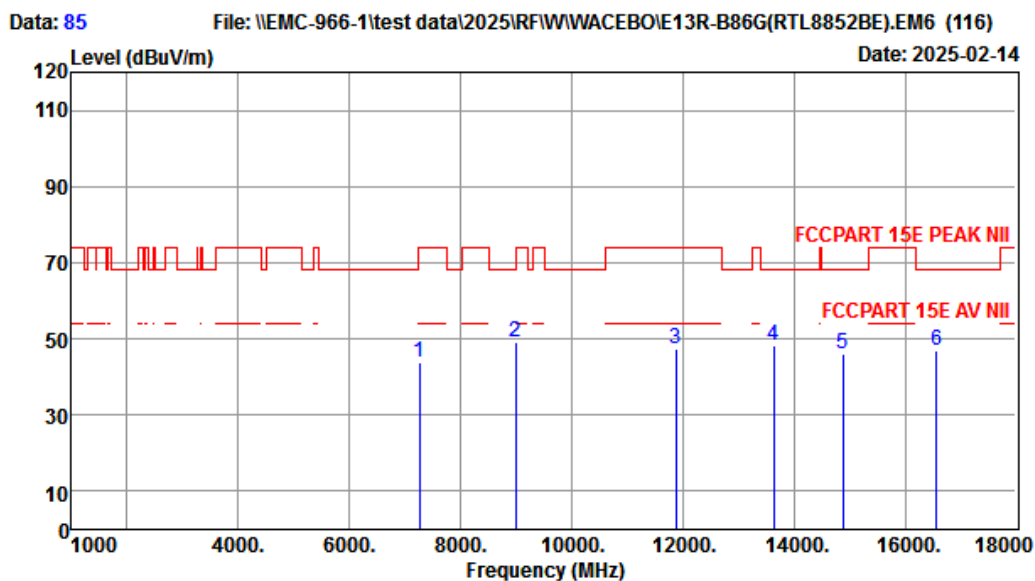
Site no. : 1# 966 Chamber Data no. : 84
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	6.84	42.90	43.43	45.17	68.20	23.03	Peak
2	8990.00	38.00	7.40	42.31	43.15	46.24	68.20	21.96	Peak
3	11591.00	39.97	8.90	40.92	40.23	48.18	74.00	25.82	Peak
4	13478.00	41.03	9.63	39.83	38.39	49.22	68.20	18.98	Peak
5	14515.00	39.25	9.74	41.37	39.75	47.37	68.20	20.83	Peak
6	16147.00	38.80	11.14	42.77	39.16	46.33	74.00	27.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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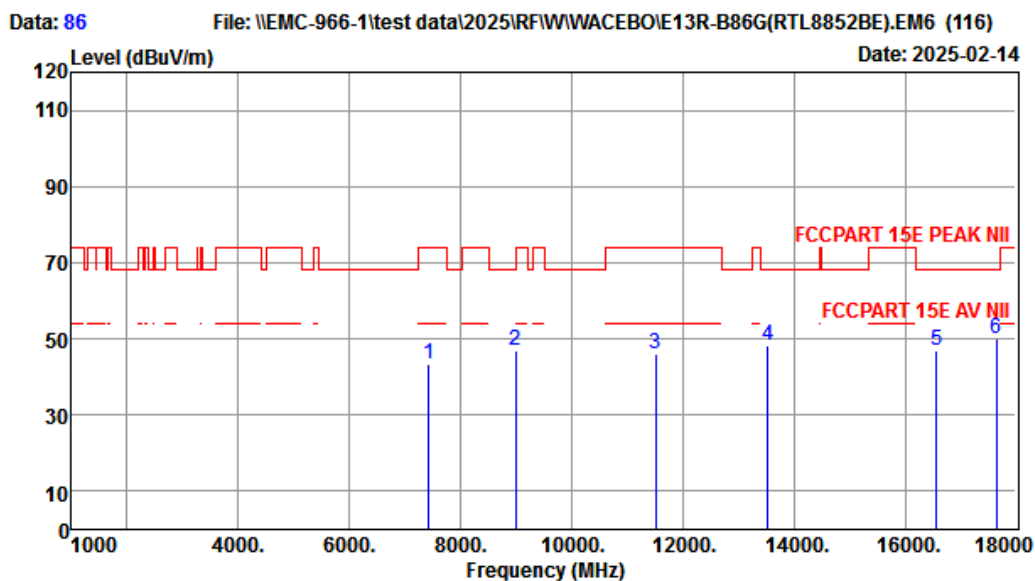
Site no. : 1# 966 Chamber Data no. : 85
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7256.00	36.80	6.85	42.90	42.97	43.72	74.00	30.28	Peak
2	8990.00	38.00	7.40	42.31	46.16	49.25	68.20	18.95	Peak
3	11880.00	39.48	9.15	40.84	39.53	47.32	74.00	26.68	Peak
4	13631.00	40.70	9.68	39.96	37.74	48.16	68.20	20.04	Peak
5	14889.00	38.83	9.67	42.15	39.80	46.15	68.20	22.05	Peak
6	16572.00	39.80	11.85	42.68	38.17	47.14	68.20	21.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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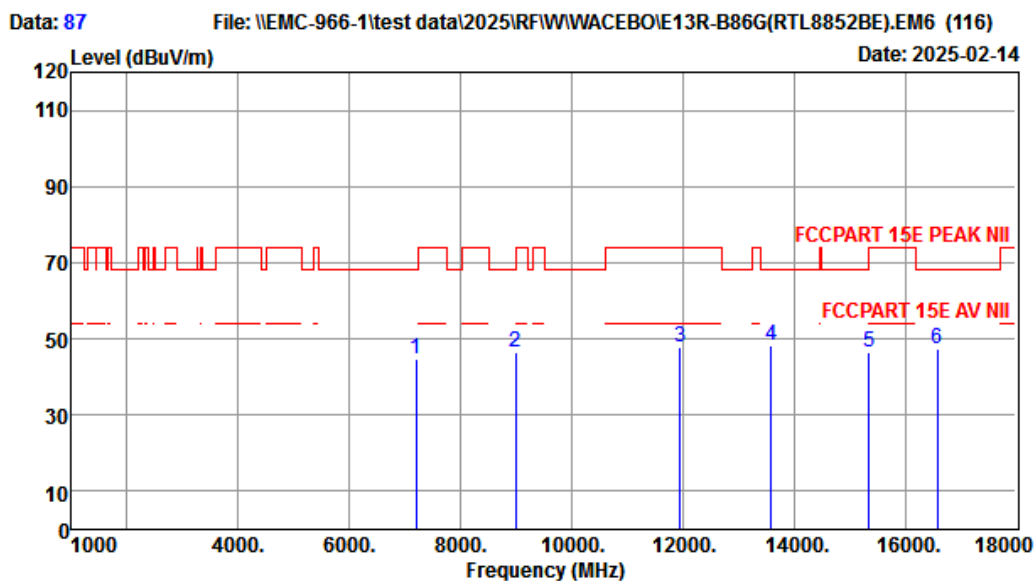
Site no. : 1# 966 Chamber Data no. : 86
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7426.00	36.50	6.86	42.90	43.04	43.50	74.00	30.50	Peak
2	8990.00	38.00	7.40	42.31	43.96	47.05	68.20	21.15	Peak
3	11506.00	40.30	8.82	40.95	37.95	46.12	74.00	27.88	Peak
4	13529.00	41.03	9.64	39.87	37.46	48.26	68.20	19.94	Peak
5	16572.00	39.80	11.85	42.68	37.75	46.72	68.20	21.48	Peak
6	17643.00	41.65	13.27	41.76	37.10	50.26	68.20	17.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 87
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	37.80	6.84	42.90	42.80	44.54	68.20	23.66	Peak
2	8990.00	38.00	7.40	42.31	43.39	46.48	68.20	21.72	Peak
3	11948.00	39.50	9.21	40.82	39.97	47.86	74.00	26.14	Peak
4	13597.00	40.90	9.67	39.93	37.53	48.17	68.20	20.03	Peak
5	15348.00	38.05	10.08	42.54	40.81	46.40	68.20	21.80	Peak
6	16589.00	39.85	11.88	42.68	38.50	47.55	68.20	20.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

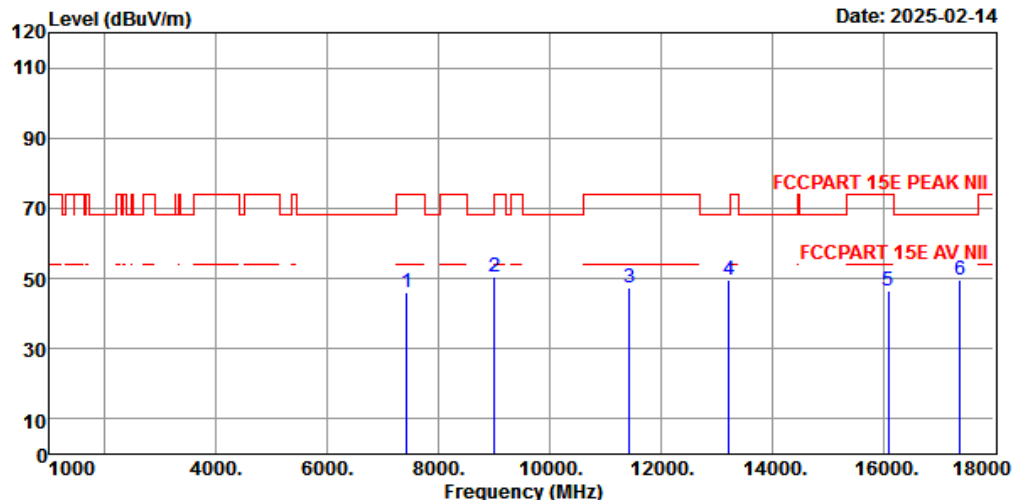
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Data: 88

File: \\EMC-966-1\test data\2025\RF\W\WACEBO\E13R-B86G(RTL8852BE).EM6 (116)

Date: 2025-02-14



Site no. : 1# 966 Chamber Data no. : 88
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7426.00	36.50	6.86	42.90	45.60	46.06	74.00	27.94	Peak
2	9007.00	37.90	7.41	42.30	47.51	50.52	74.00	23.48	Peak
3	11438.00	40.30	8.76	40.97	39.45	47.54	74.00	26.46	Peak
4	13223.00	40.62	9.53	39.60	39.24	49.79	68.20	18.41	Peak
5	16096.00	38.90	11.06	42.78	39.29	46.47	74.00	27.53	Peak
6	17388.00	39.97	12.99	42.09	38.82	49.69	68.20	18.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

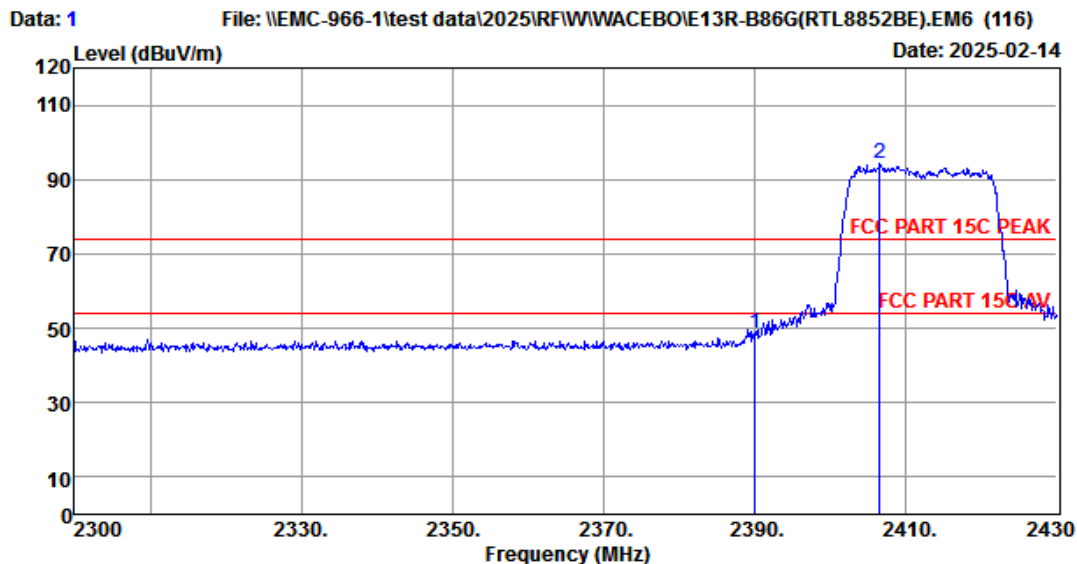
Note:

1. The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported

Band Edge

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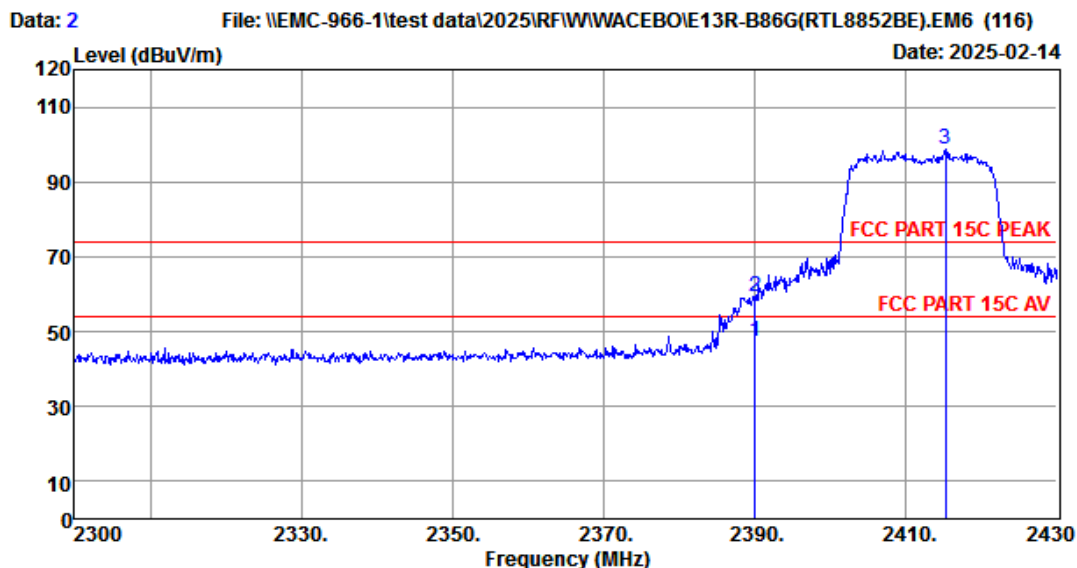
Site no. : 1# 966 Chamber Data no. : 1
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:22.6℃;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 2412MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.60	3.69	44.15	61.47	48.61	74.00	25.39	Peak
2	2406.47	27.80	3.71	44.13	106.90	94.28	74.00	-20.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 2
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:22.6℃;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 2412MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.60	3.69	44.15	60.25	47.39	54.00	6.61	Average
2	2390.00	27.60	3.69	44.15	72.39	59.53	74.00	14.47	Peak
3	2415.18	27.80	3.71	44.13	111.28	98.66	74.00	-24.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

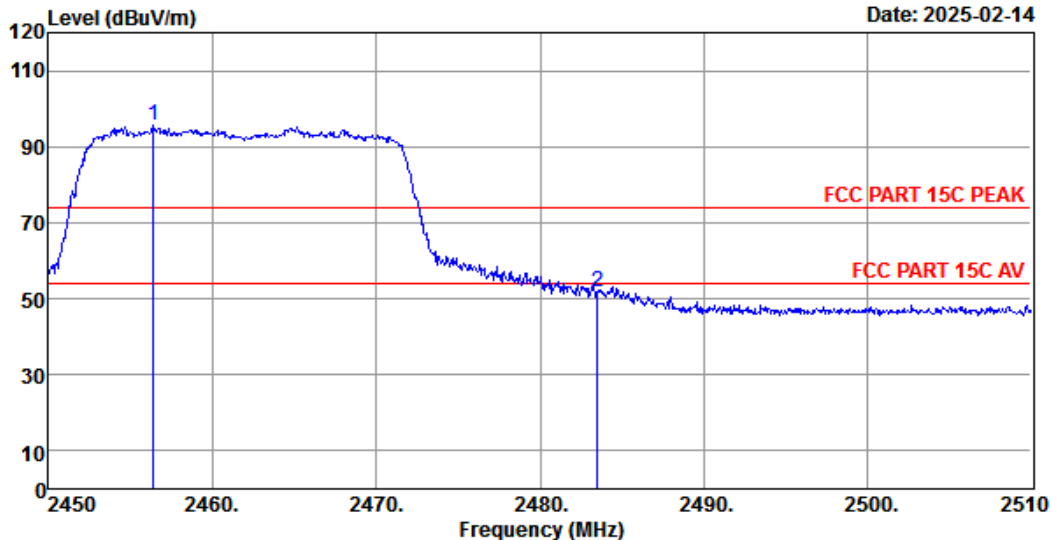
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Data: 3

File: \\EMC-966-1\test data\2025\RF\W\WACEBOIE13R-B86G(RTL8852BE).EM6 (116)

Date: 2025-02-14



Site no. : 1# 966 Chamber Data no. : 3
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.42	28.20	3.78	44.06	107.62	95.54	74.00	-21.54	Peak
2	2483.50	28.20	3.81	44.04	63.80	51.77	74.00	22.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

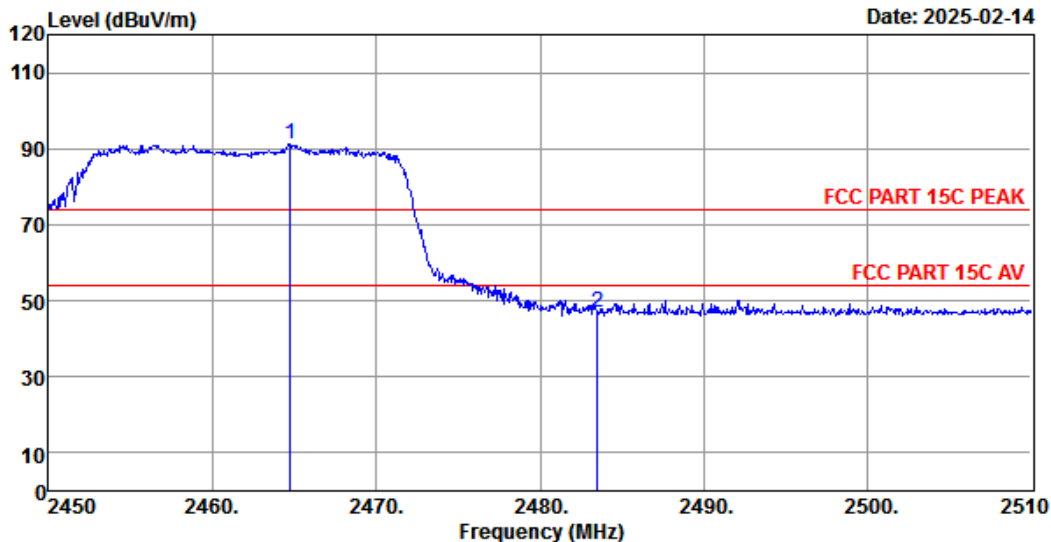
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Data: 4

File: \\EMC-966-1\test data\2025\RF\W\WACEBOIE13R-B86G(RTL8852BE).EM6 (116)

Date: 2025-02-14



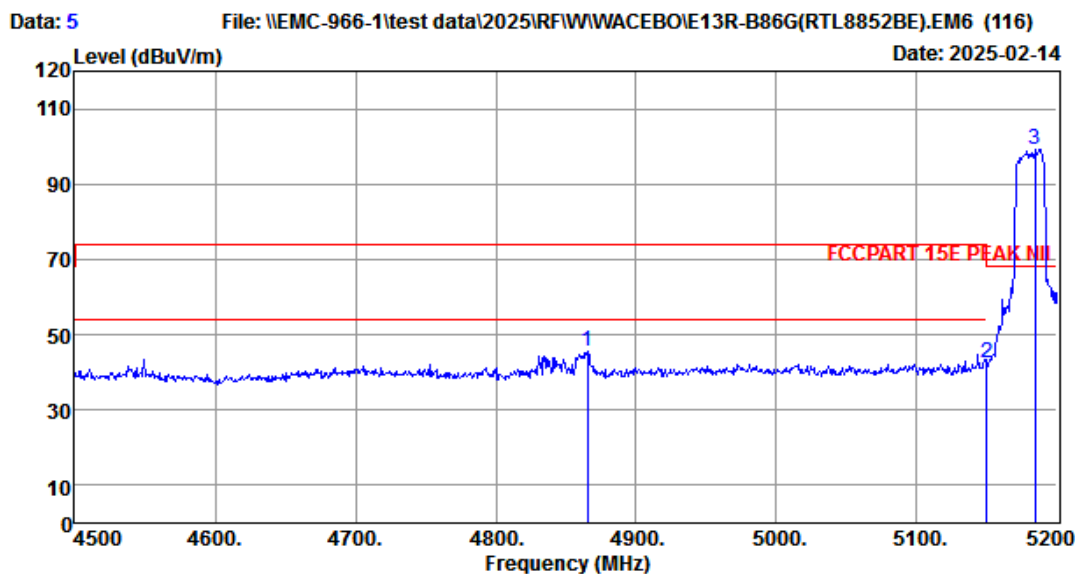
Site no. : 1# 966 Chamber Data no. : 4
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 2462MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.76	28.20	3.78	44.06	103.41	91.33	74.00	-17.33	Peak
2	2483.50	28.20	3.81	44.04	59.09	47.06	74.00	26.94	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 5
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4865.40	33.33	5.10	43.15	50.39	45.67	74.00	28.33	Peak
2	5150.00	33.70	5.27	43.05	46.59	42.51	68.20	25.69	Peak
3	5183.90	33.77	5.30	43.04	103.35	99.38	68.20	-31.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

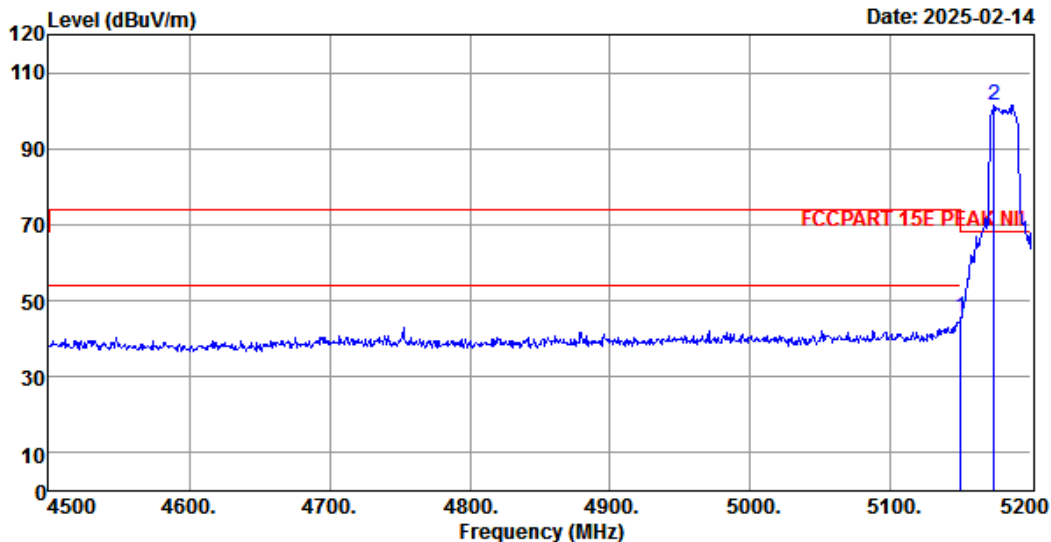
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Data: 6

File: \\EMC-966-1\test data\2025\RF\W\WACEBOIE13R-B86G(RTL8852BE).EM6 (116)

Date: 2025-02-14



Site no. : 1# 966 Chamber Data no. : 6
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.70	5.27	43.05	49.70	45.62	68.20	22.58	Peak
2	5173.40	33.73	5.29	43.05	105.48	101.45	68.20	-33.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

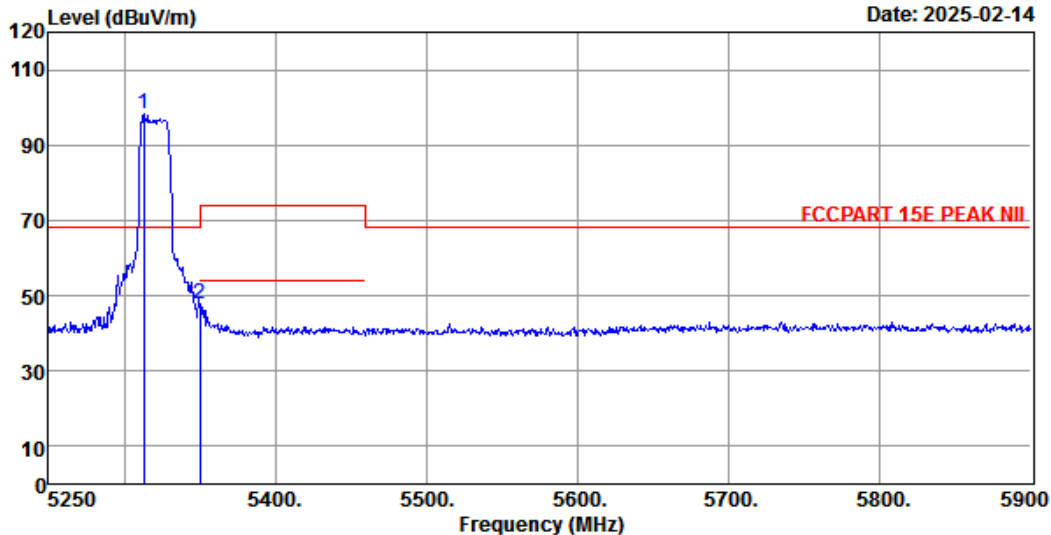
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Data: 7

File: \\EMC-966-1\test data\2025\RF\W\WACEBO\IE13R-B86G(RTL8852BE).EM6 (116)

Date: 2025-02-14



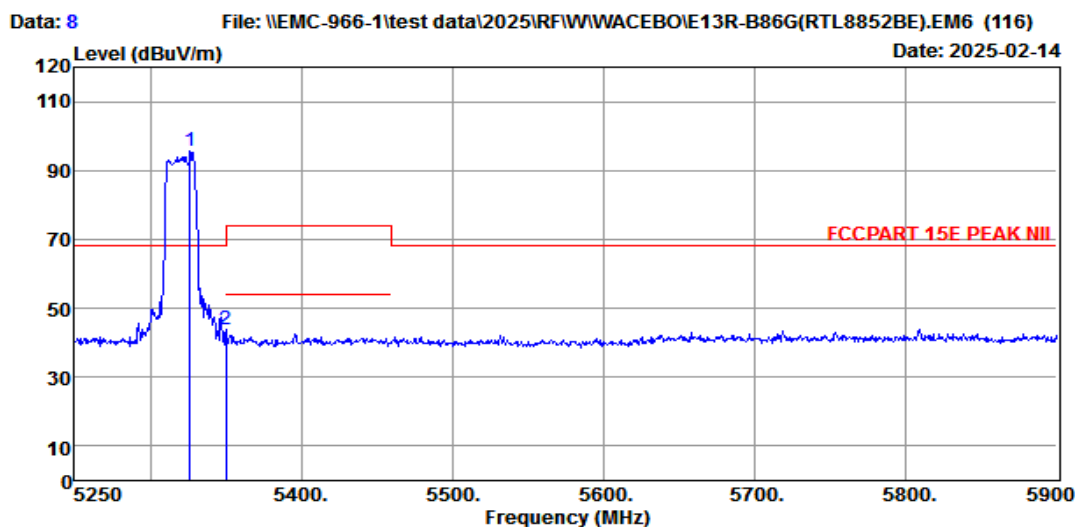
Site no. : 1# 966 Chamber Data no. : 7
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5313.05	33.70	5.39	43.00	102.09	98.18	68.20	-29.98	Peak
2	5350.00	33.70	5.41	42.99	51.57	47.69	68.20	20.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 8
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:22.6°C;Humi:55%;Press:101.52kPa
Engineer : Aron Zhang
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : IEEE 802.11ax HE20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5326.05	33.70	5.39	43.00	99.65	95.74	68.20	-27.54	Peak
2	5350.00	33.70	5.41	42.99	47.80	43.92	68.20	24.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

18000MHz-40000MHz

Pass

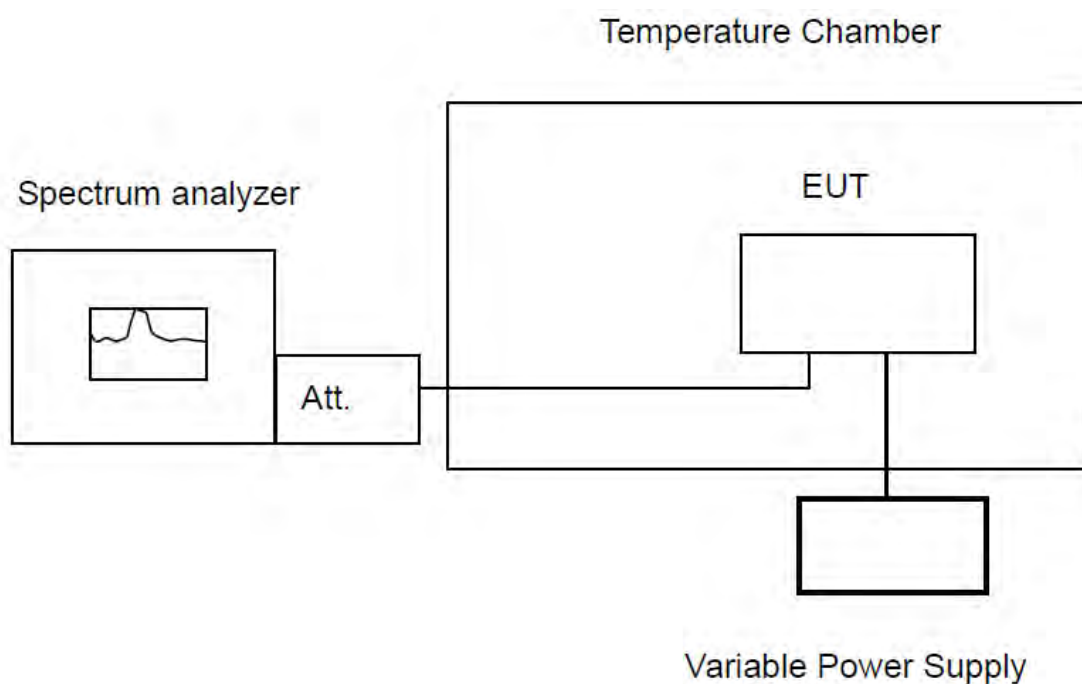
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

7.FREQUENCY STABILITY

7.1.Limit

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 operational description.

7.2.Test Setup



7.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

7.4.Test Procedure

For measurement frequency stability under temperature variation :

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- h. Repeat step d through step f to measured the temperature form -20°C to $+50^{\circ}\text{C}$ in 10°C steps.

For frequency stability under voltage variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature ($+15^{\circ}\text{C}$ to $+25^{\circ}\text{C}$) and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency.
- h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

7.5.Test Result

Refer to section 10: Appendix G

8.AC POWER LINE CONDUCTED EMISSIONS

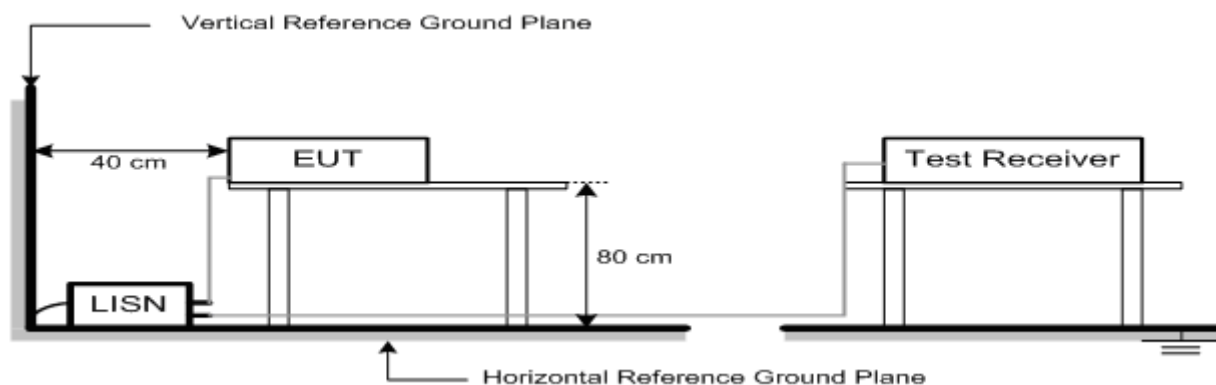
8.1.Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Notes:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

8.2.Test Setup



8.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

8.4.Test Procedure

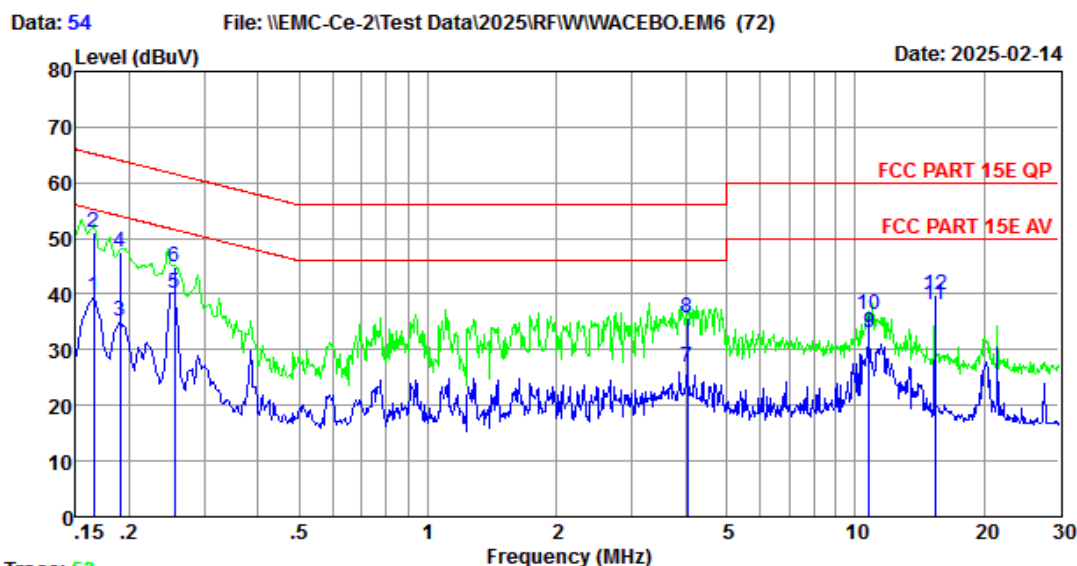
- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 8.3.

- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

8.5.Test Result

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Site no : 2#CE Shield Room Data no. : 54
Env. / Ins. : Temp:23.5°C Humi:58% Press:101.40kPa LINE Phase : NEUTRAL
Limit : FCC PART 15E QP
Engineer : Dylan Cai
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B65G
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.56	10.01	20.11	39.68	55.21	15.53	Average
2	0.17	9.56	10.01	31.54	51.11	65.21	14.10	QP
3	0.19	9.57	9.91	15.60	35.08	54.02	18.94	Average
4	0.19	9.57	9.91	28.13	47.61	64.02	16.41	QP
5	0.25	9.57	9.90	20.68	40.15	51.60	11.45	Average
6	0.25	9.57	9.90	25.36	44.83	61.60	16.77	QP
7	4.05	9.59	10.00	7.24	26.83	46.00	19.17	Average
8	4.05	9.59	10.00	16.24	35.83	56.00	20.17	QP
9	10.79	9.68	10.11	13.26	33.05	50.00	16.95	Average
10	10.79	9.68	10.11	16.52	36.31	60.00	23.69	QP
11	15.39	9.88	10.25	17.98	38.11	50.00	11.89	Average
12	15.39	9.88	10.25	19.60	39.73	60.00	20.27	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

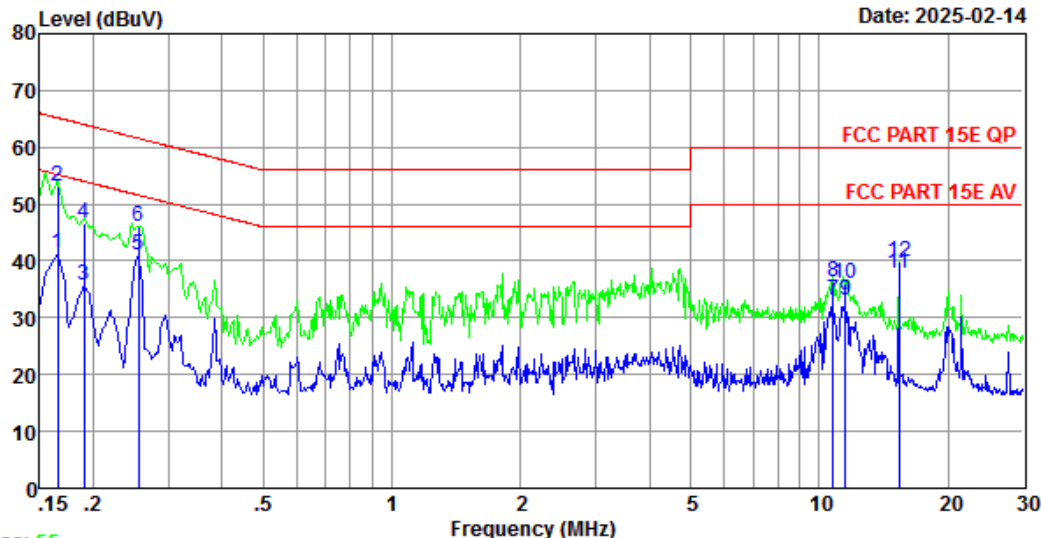
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Data: 56

File: \\EMC-Ce-2\Test Data\2025\RF\W\WACEBO.EM6 (72)

Date: 2025-02-14



Site no : 2#CE Shield Room Data no. : 56
Env. / Ins. : Temp:23.5°C Humi:58% Press:101.40kPa LINE Phase : LINE
Limit : FCC PART 15E QP
Engineer : Dylan Cai
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B65G
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.59	10.01	21.67	41.27	55.21	13.94	Average
2	0.17	9.59	10.01	33.52	53.12	65.21	12.09	QP
3	0.19	9.61	9.91	16.17	35.69	54.02	18.33	Average
4	0.19	9.61	9.91	27.13	46.65	64.02	17.37	QP
5	0.25	9.59	9.90	21.65	41.14	51.60	10.46	Average
6	0.25	9.59	9.90	26.57	46.06	61.60	15.54	QP
7	10.79	9.67	10.11	13.18	32.96	50.00	17.04	Average
8	10.79	9.67	10.11	16.57	36.35	60.00	23.65	QP
9	11.50	9.70	10.13	13.18	33.01	50.00	16.99	Average
10	11.50	9.70	10.13	16.16	35.99	60.00	24.01	QP
11	15.39	9.84	10.25	17.76	37.85	50.00	12.15	Average
12	15.39	9.84	10.25	19.66	39.75	60.00	20.25	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

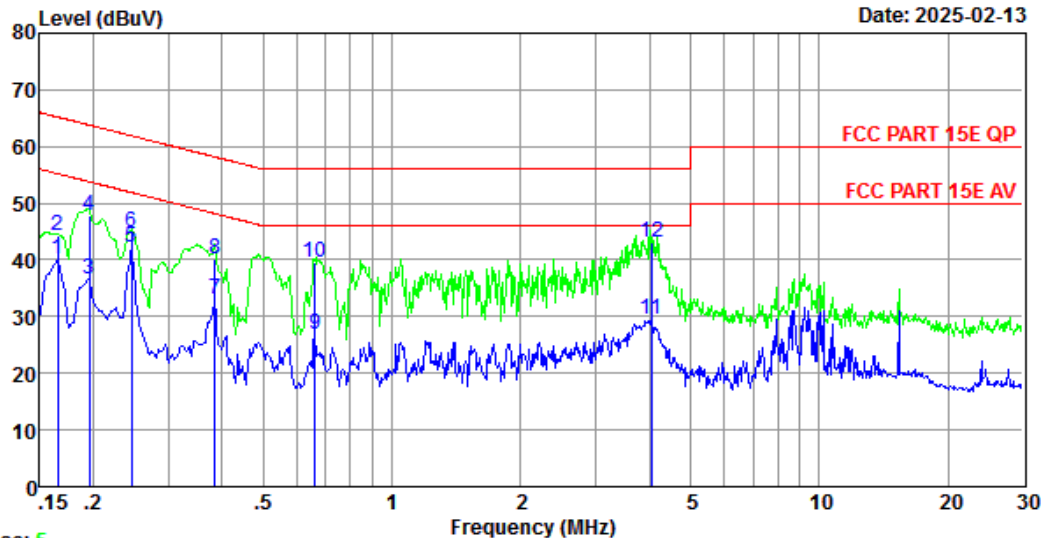
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Data: 6

File: \\EMC-Ce-2\Test Data\2025\RF\W\WACEBO.EM6 (72)

Date: 2025-02-13



Trace: 5

Site no : 2#CE Shield Room Data no. : 6
Env. / Ins. : Temp:23.5°C Humi:58% Press:101.40kPa LINE Phase : LINE
Limit : FCC PART 15E QP
Engineer : Dylan Cai
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B75G
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.59	10.01	20.67	40.27	55.21	14.94	Average
2	0.17	9.59	10.01	24.59	44.19	65.21	21.02	QP
3	0.20	9.61	9.91	17.21	36.73	53.80	17.07	Average
4	0.20	9.61	9.91	28.45	47.97	63.80	15.83	QP
5	0.25	9.59	9.90	22.61	42.10	51.91	9.81	Average
6	0.25	9.59	9.90	25.53	45.02	61.91	16.89	QP
7	0.39	9.58	9.89	13.46	32.93	48.17	15.24	Average
8	0.39	9.58	9.89	20.54	40.01	58.17	18.16	QP
9	0.66	9.55	9.88	7.39	26.82	46.00	19.18	Average
10	0.66	9.55	9.88	20.25	39.68	56.00	16.32	QP
11	4.05	9.60	10.00	9.77	29.37	46.00	16.63	Average
12	4.05	9.60	10.00	23.53	43.13	56.00	12.87	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

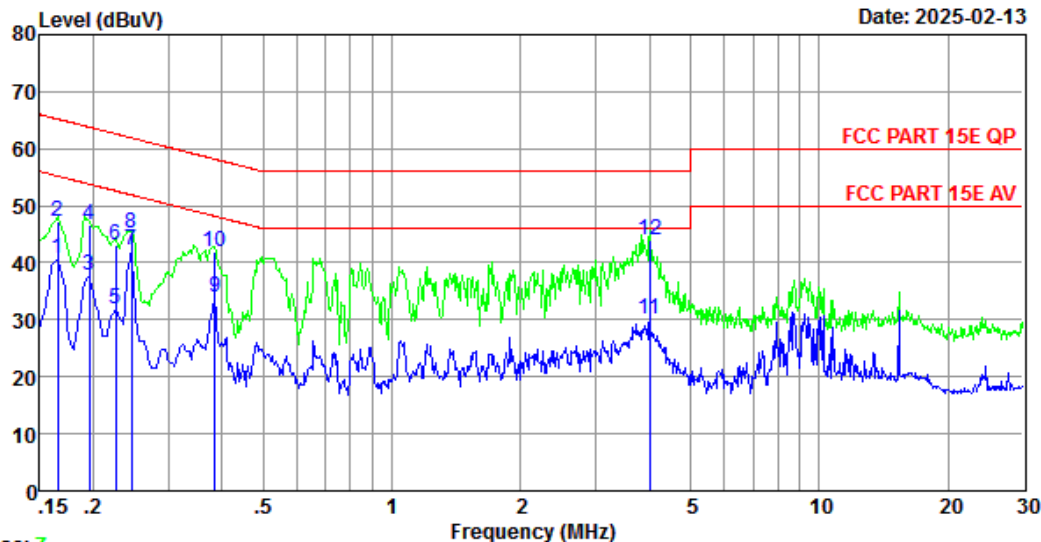
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Data: 8

File: \\EMC-Ce-2\Test Data\2025\RF\WWACEBO.EM6 (72)

Date: 2025-02-13



Site no : 2#CE Shield Room Data no. : 8
Env. / Ins. : Temp:23.5°C Humi:58% Press:101.40kPa LINE Phase : NEUTRAL
Limit : FCC PART 15E QP
Engineer : Dylan Cai
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B75G
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.56	10.01	21.21	40.78	55.21	14.43	Average
2	0.17	9.56	10.01	27.52	47.09	65.21	18.12	QP
3	0.20	9.57	9.91	18.16	37.64	53.80	16.16	Average
4	0.20	9.57	9.91	27.16	46.64	63.80	17.16	QP
5	0.23	9.57	9.91	12.48	31.96	52.61	20.65	Average
6	0.23	9.57	9.91	23.56	43.04	62.61	19.57	QP
7	0.25	9.57	9.90	22.86	42.33	51.91	9.58	Average
8	0.25	9.57	9.90	25.75	45.22	61.91	16.69	QP
9	0.39	9.56	9.89	14.57	34.02	48.17	14.15	Average
10	0.39	9.56	9.89	22.56	42.01	58.17	16.16	QP
11	4.01	9.59	10.00	10.40	29.99	46.00	16.01	Average
12	4.01	9.59	10.00	24.44	44.03	56.00	11.97	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

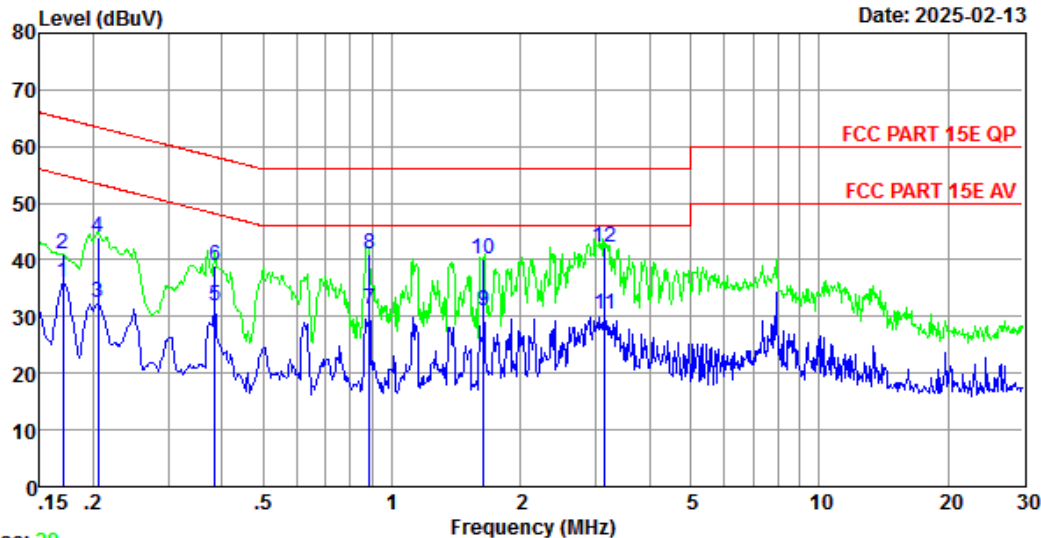
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Data: 30

File: \\EMC-Ce-2\Test Data\2025\RF\W\WACEBO.EM6 (72)

Date: 2025-02-13



Site no : 2#CE Shield Room Data no. : 30
Env. / Ins. : Temp:23.5°C Humi:58% Press:101.40kPa LINE Phase : LINE
Limit : FCC PART 15E QP
Engineer : Dylan Cai
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.59	10.01	16.42	36.02	54.94	18.92	Average
2	0.17	9.59	10.01	21.56	41.16	64.94	23.78	QP
3	0.21	9.60	9.91	13.02	32.53	53.40	20.87	Average
4	0.21	9.60	9.91	24.57	44.08	63.40	19.32	QP
5	0.39	9.58	9.89	12.41	31.88	48.17	16.29	Average
6	0.39	9.58	9.89	19.52	38.99	58.17	19.18	QP
7	0.88	9.54	9.89	11.97	31.40	46.00	14.60	Average
8	0.88	9.54	9.89	21.53	40.96	56.00	15.04	QP
9	1.64	9.57	9.92	11.55	31.04	46.00	14.96	Average
10	1.64	9.57	9.92	20.57	40.06	56.00	15.94	QP
11	3.16	9.57	9.97	10.80	30.34	46.00	15.66	Average
12	3.16	9.57	9.97	22.53	42.07	56.00	13.93	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

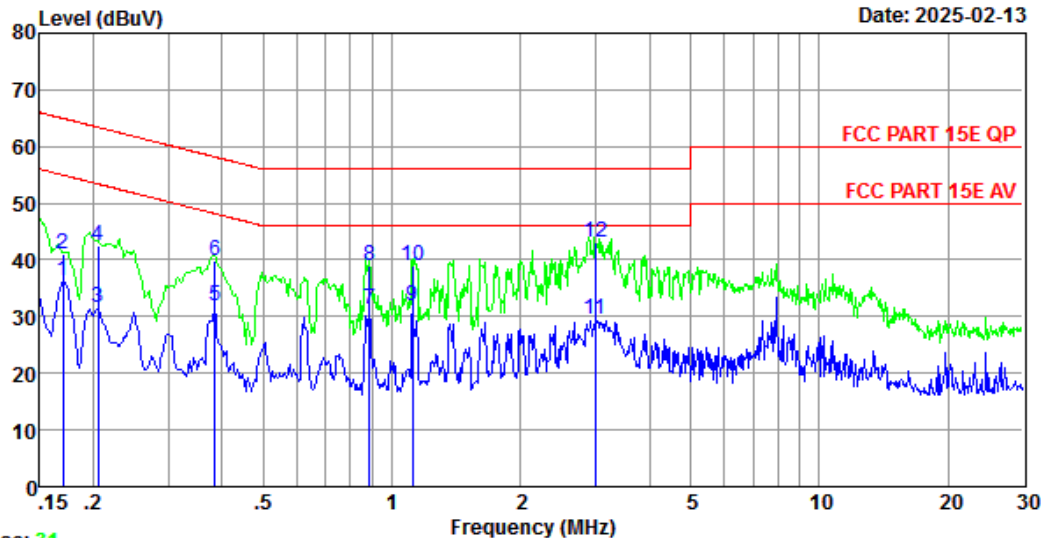
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Data: 32

File: \\EMC-Ce-2\Test Data\2025\RF\W\WACEBO.EM6 (72)

Date: 2025-02-13



Site no : 2#CE Shield Room Data no. : 32
Env. / Ins. : Temp:23.5°C Humi:58% Press:101.40kPa LINE Phase : NEUTRAL
Limit : FCC PART 15E QP
Engineer : Dylan Cai
EUT : Interactive LED Panel
Power : AC 120V/60Hz
M/N : E13R-B86G
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	9.56	10.01	16.72	36.29	54.94	18.65	Average
2	0.17	9.56	10.01	21.56	41.13	64.94	23.81	QP
3	0.21	9.57	9.91	12.19	31.67	53.40	21.73	Average
4	0.21	9.57	9.91	23.16	42.64	63.40	20.76	QP
5	0.39	9.56	9.89	12.31	31.76	48.17	16.41	Average
6	0.39	9.56	9.89	20.48	39.93	58.17	18.24	QP
7	0.88	9.54	9.89	11.82	31.25	46.00	14.75	Average
8	0.88	9.54	9.89	19.54	38.97	56.00	17.03	QP
9	1.12	9.54	9.89	12.40	31.83	46.00	14.17	Average
10	1.12	9.54	9.89	19.55	38.98	56.00	17.02	QP
11	2.99	9.56	9.96	9.93	29.45	46.00	16.55	Average
12	2.99	9.56	9.96	23.54	43.06	56.00	12.94	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

9.ANTENNA REQUIREMENTS

9.1.Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2.Test Result

The antennas used for this product is internal antenna, so compliance with antenna requirements. (Please refer to the EUT photo for details)

10.APPENDIX

Appendix A1: Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.720	5170.600	5189.320	---	---
11A	Ant2	5180	18.600	5170.680	5189.280	---	---
11A	Ant1	5200	18.680	5190.600	5209.280	---	---
11A	Ant2	5200	18.720	5190.640	5209.360	---	---
11A	Ant1	5240	18.640	5230.680	5249.320	---	---
11A	Ant2	5240	18.480	5230.720	5249.200	---	---
11A	Ant1	5260	18.560	5250.680	5269.240	---	---
11A	Ant2	5260	18.440	5250.840	5269.280	---	---
11A	Ant1	5300	18.600	5290.600	5309.200	---	---
11A	Ant2	5300	18.560	5290.720	5309.280	---	---
11A	Ant1	5320	18.600	5310.720	5329.320	---	---
11A	Ant2	5320	18.440	5310.760	5329.200	---	---
11A	Ant1	5500	18.680	5490.600	5509.280	---	---
11A	Ant2	5500	18.640	5490.640	5509.280	---	---
11A	Ant1	5580	18.440	5570.800	5589.240	---	---
11A	Ant2	5580	18.360	5570.840	5589.200	---	---
11A	Ant1	5700	18.640	5690.640	5709.280	---	---
11A	Ant2	5700	18.560	5690.720	5709.280	---	---
11A	Ant1	5745	18.600	5735.760	5754.360	---	---
11A	Ant2	5745	18.520	5735.760	5754.280	---	---
11A	Ant1	5785	18.560	5775.720	5794.280	---	---
11A	Ant2	5785	18.440	5775.840	5794.280	---	---
11A	Ant1	5825	18.680	5815.600	5834.280	---	---
11A	Ant2	5825	18.440	5815.760	5834.200	---	---
11N20MIMO	Ant1	5180	19.480	5170.160	5189.640	---	---
11N20MIMO	Ant2	5180	19.400	5170.240	5189.640	---	---
11N20MIMO	Ant1	5200	19.720	5190.120	5209.840	---	---
11N20MIMO	Ant2	5200	19.680	5190.160	5209.840	---	---
11N20MIMO	Ant1	5240	19.480	5230.200	5249.680	---	---
11N20MIMO	Ant2	5240	19.400	5230.280	5249.680	---	---
11N20MIMO	Ant1	5260	19.480	5250.200	5269.680	---	---
11N20MIMO	Ant2	5260	19.520	5250.160	5269.680	---	---
11N20MIMO	Ant1	5300	19.520	5290.160	5309.680	---	---
11N20MIMO	Ant2	5300	19.440	5290.280	5309.720	---	---
11N20MIMO	Ant1	5320	19.520	5310.160	5329.680	---	---
11N20MIMO	Ant2	5320	19.520	5310.240	5329.760	---	---
11N20MIMO	Ant1	5500	19.520	5490.200	5509.720	---	---
11N20MIMO	Ant2	5500	19.680	5490.120	5509.800	---	---
11N20MIMO	Ant1	5580	19.640	5570.160	5589.800	---	---
11N20MIMO	Ant2	5580	19.360	5570.240	5589.600	---	---
11N20MIMO	Ant1	5700	19.560	5690.280	5709.840	---	---
11N20MIMO	Ant2	5700	19.480	5690.200	5709.680	---	---
11N20MIMO	Ant1	5745	19.440	5735.240	5754.680	---	---
11N20MIMO	Ant2	5745	19.400	5735.200	5754.600	---	---
11N20MIMO	Ant1	5785	19.640	5775.080	5794.720	---	---
11N20MIMO	Ant2	5785	19.560	5775.160	5794.720	---	---
11N20MIMO	Ant1	5825	19.360	5815.280	5834.640	---	---
11N20MIMO	Ant2	5825	19.440	5815.280	5834.720	---	---

11N40MIMO	Ant1	5190	39.040	5170.480	5209.520	---	---
11N40MIMO	Ant2	5190	38.960	5170.400	5209.360	---	---
11N40MIMO	Ant1	5230	39.280	5210.400	5249.680	---	---
11N40MIMO	Ant2	5230	39.120	5210.400	5249.520	---	---
11N40MIMO	Ant1	5270	38.960	5250.560	5289.520	---	---
11N40MIMO	Ant2	5270	38.880	5250.480	5289.360	---	---
11N40MIMO	Ant1	5310	39.120	5290.400	5329.520	---	---
11N40MIMO	Ant2	5310	39.120	5290.320	5329.440	---	---
11N40MIMO	Ant1	5510	39.200	5490.480	5529.680	---	---
11N40MIMO	Ant2	5510	39.200	5490.320	5529.520	---	---
11N40MIMO	Ant1	5550	38.960	5530.480	5569.440	---	---
11N40MIMO	Ant2	5550	39.200	5530.480	5569.680	---	---
11N40MIMO	Ant1	5670	39.040	5650.400	5689.440	---	---
11N40MIMO	Ant2	5670	39.200	5650.320	5689.520	---	---
11N40MIMO	Ant1	5755	39.040	5735.400	5774.440	---	---
11N40MIMO	Ant2	5755	39.040	5735.400	5774.440	---	---
11N40MIMO	Ant1	5795	39.040	5775.400	5814.440	---	---
11N40MIMO	Ant2	5795	38.960	5775.560	5814.520	---	---
11AC20MIMO	Ant1	5180	19.480	5170.240	5189.720	---	---
11AC20MIMO	Ant2	5180	19.520	5170.160	5189.680	---	---
11AC20MIMO	Ant1	5200	19.360	5190.200	5209.560	---	---
11AC20MIMO	Ant2	5200	19.480	5190.160	5209.640	---	---
11AC20MIMO	Ant1	5240	19.480	5230.200	5249.680	---	---
11AC20MIMO	Ant2	5240	19.640	5230.120	5249.760	---	---
11AC20MIMO	Ant1	5260	19.560	5250.120	5269.680	---	---
11AC20MIMO	Ant2	5260	19.480	5250.160	5269.640	---	---
11AC20MIMO	Ant1	5300	19.560	5290.120	5309.680	---	---
11AC20MIMO	Ant2	5300	19.600	5290.120	5309.720	---	---
11AC20MIMO	Ant1	5320	19.640	5310.080	5329.720	---	---
11AC20MIMO	Ant2	5320	19.480	5310.200	5329.680	---	---
11AC20MIMO	Ant1	5500	19.520	5490.160	5509.680	---	---
11AC20MIMO	Ant2	5500	19.720	5490.080	5509.800	---	---
11AC20MIMO	Ant1	5580	19.560	5570.240	5589.800	---	---
11AC20MIMO	Ant2	5580	19.560	5570.120	5589.680	---	---
11AC20MIMO	Ant1	5700	19.560	5690.160	5709.720	---	---
11AC20MIMO	Ant2	5700	19.520	5690.200	5709.720	---	---
11AC20MIMO	Ant1	5745	19.680	5735.120	5754.800	---	---
11AC20MIMO	Ant2	5745	19.440	5735.280	5754.720	---	---
11AC20MIMO	Ant1	5785	19.440	5775.240	5794.680	---	---
11AC20MIMO	Ant2	5785	19.560	5775.160	5794.720	---	---
11AC20MIMO	Ant1	5825	19.600	5815.120	5834.720	---	---
11AC20MIMO	Ant2	5825	19.480	5815.160	5834.640	---	---
11AC40MIMO	Ant1	5190	39.120	5170.320	5209.440	---	---
11AC40MIMO	Ant2	5190	39.120	5170.400	5209.520	---	---
11AC40MIMO	Ant1	5230	38.880	5210.560	5249.440	---	---
11AC40MIMO	Ant2	5230	38.960	5210.480	5249.440	---	---
11AC40MIMO	Ant1	5270	39.120	5250.320	5289.440	---	---
11AC40MIMO	Ant2	5270	39.040	5250.480	5289.520	---	---
11AC40MIMO	Ant1	5310	39.360	5290.240	5329.600	---	---
11AC40MIMO	Ant2	5310	38.960	5290.480	5329.440	---	---
11AC40MIMO	Ant1	5510	38.880	5490.560	5529.440	---	---
11AC40MIMO	Ant2	5510	39.040	5490.400	5529.440	---	---
11AC40MIMO	Ant1	5550	39.040	5530.400	5569.440	---	---
11AC40MIMO	Ant2	5550	39.120	5530.400	5569.520	---	---
11AC40MIMO	Ant1	5670	39.040	5650.480	5689.520	---	---
11AC40MIMO	Ant2	5670	39.200	5650.320	5689.520	---	---
11AC40MIMO	Ant1	5755	38.960	5735.400	5774.360	---	---

11AC40MIMO	Ant2	5755	39.040	5735.400	5774.440	---	---
11AC40MIMO	Ant1	5795	38.880	5775.560	5814.440	---	---
11AC40MIMO	Ant2	5795	39.040	5775.480	5814.520	---	---
11AC80MIMO	Ant1	5210	87.040	5166.960	5254.000	---	---
11AC80MIMO	Ant2	5210	87.840	5166.160	5254.000	---	---
11AC80MIMO	Ant1	5290	87.680	5245.680	5333.360	---	---
11AC80MIMO	Ant2	5290	88.800	5245.520	5334.320	---	---
11AC80MIMO	Ant1	5530	87.680	5486.160	5573.840	---	---
11AC80MIMO	Ant2	5530	89.440	5485.840	5575.280	---	---
11AC80MIMO	Ant1	5610	86.720	5566.160	5652.880	---	---
11AC80MIMO	Ant2	5610	87.520	5566.320	5653.840	---	---
11AC80MIMO	Ant1	5775	87.200	5731.320	5818.520	---	---
11AC80MIMO	Ant2	5775	87.840	5731.160	5819.000	---	---
11AX20MIMO	Ant1	5180	20.440	5169.680	5190.120	---	---
11AX20MIMO	Ant2	5180	20.280	5169.800	5190.080	---	---
11AX20MIMO	Ant1	5200	20.400	5189.640	5210.040	---	---
11AX20MIMO	Ant2	5200	20.320	5189.760	5210.080	---	---
11AX20MIMO	Ant1	5240	20.360	5229.680	5250.040	---	---
11AX20MIMO	Ant2	5240	20.240	5229.760	5250.000	---	---
11AX20MIMO	Ant1	5260	20.440	5249.680	5270.120	---	---
11AX20MIMO	Ant2	5260	20.120	5249.920	5270.040	---	---
11AX20MIMO	Ant1	5300	20.240	5289.800	5310.040	---	---
11AX20MIMO	Ant2	5300	20.400	5289.640	5310.040	---	---
11AX20MIMO	Ant1	5320	20.200	5309.920	5330.120	---	---
11AX20MIMO	Ant2	5320	20.360	5309.800	5330.160	---	---
11AX20MIMO	Ant1	5500	20.240	5489.840	5510.080	---	---
11AX20MIMO	Ant2	5500	20.640	5489.600	5510.240	---	---
11AX20MIMO	Ant1	5580	20.240	5569.840	5590.080	---	---
11AX20MIMO	Ant2	5580	20.520	5569.640	5590.160	---	---
11AX20MIMO	Ant1	5700	20.480	5689.720	5710.200	---	---
11AX20MIMO	Ant2	5700	20.320	5689.760	5710.080	---	---
11AX20MIMO	Ant1	5745	20.600	5734.680	5755.280	---	---
11AX20MIMO	Ant2	5745	20.560	5734.600	5755.160	---	---
11AX20MIMO	Ant1	5785	20.440	5774.760	5795.200	---	---
11AX20MIMO	Ant2	5785	20.400	5774.800	5795.200	---	---
11AX20MIMO	Ant1	5825	20.440	5814.760	5835.200	---	---
11AX20MIMO	Ant2	5825	20.280	5814.800	5835.080	---	---
11AX40MIMO	Ant1	5190	39.760	5170.080	5209.840	---	---
11AX40MIMO	Ant2	5190	39.680	5170.080	5209.760	---	---
11AX40MIMO	Ant1	5230	39.680	5210.080	5249.760	---	---
11AX40MIMO	Ant2	5230	39.680	5210.160	5249.840	---	---
11AX40MIMO	Ant1	5270	39.520	5250.320	5289.840	---	---
11AX40MIMO	Ant2	5270	39.200	5250.400	5289.600	---	---
11AX40MIMO	Ant1	5310	39.680	5290.160	5329.840	---	---
11AX40MIMO	Ant2	5310	39.680	5290.160	5329.840	---	---
11AX40MIMO	Ant1	5510	39.760	5490.160	5529.920	---	---
11AX40MIMO	Ant2	5510	39.680	5490.160	5529.840	---	---
11AX40MIMO	Ant1	5550	39.680	5530.160	5569.840	---	---
11AX40MIMO	Ant2	5550	39.760	5530.080	5569.840	---	---
11AX40MIMO	Ant1	5670	39.760	5650.160	5689.920	---	---
11AX40MIMO	Ant2	5670	39.600	5650.160	5689.760	---	---
11AX40MIMO	Ant1	5755	39.680	5735.160	5774.840	---	---
11AX40MIMO	Ant2	5755	39.440	5735.240	5774.680	---	---
11AX40MIMO	Ant1	5795	39.600	5775.160	5814.760	---	---
11AX40MIMO	Ant2	5795	39.840	5775.080	5814.920	---	---
11AX80MIMO	Ant1	5210	81.600	5168.880	5250.480	---	---
11AX80MIMO	Ant2	5210	80.800	5169.680	5250.480	---	---

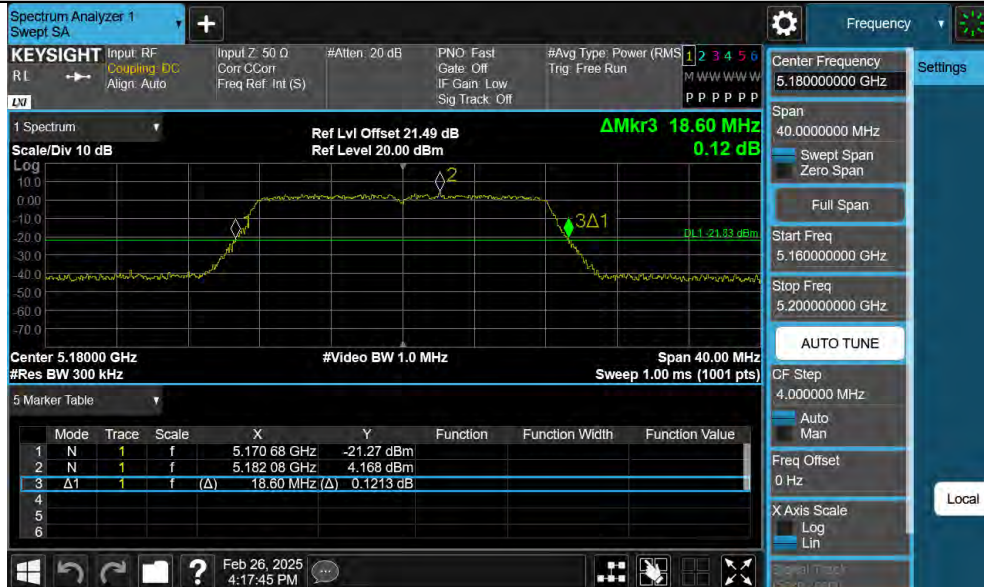
11AX80MIMO	Ant1	5290	81.440	5249.200	5330.640	---	---
11AX80MIMO	Ant2	5290	81.920	5249.040	5330.960	---	---
11AX80MIMO	Ant1	5530	81.280	5489.360	5570.640	---	---
11AX80MIMO	Ant2	5530	81.280	5489.360	5570.640	---	---
11AX80MIMO	Ant1	5610	81.120	5569.360	5650.480	---	---
11AX80MIMO	Ant2	5610	81.440	5568.880	5650.320	---	---
11AX80MIMO	Ant1	5775	81.440	5734.200	5815.640	---	---
11AX80MIMO	Ant2	5775	80.960	5734.360	5815.320	---	---

Test Graphs

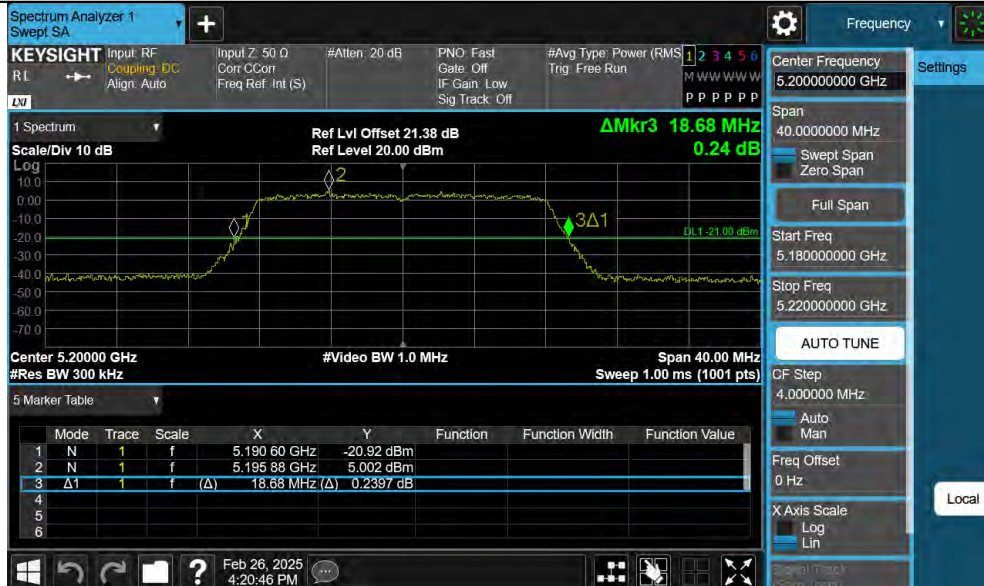
11A-Ant1-5180



11A-Ant2-5180



11A-Ant1-5200



11A-Ant2-5200



11A-Ant1-5240



11A-Ant2-5240



11A-Ant1-5260



11A-Ant2-5260



11A-Ant1-5300



11A-Ant2-5300



11A-Ant1-5320



11A-Ant2-5320



11A-Ant1-5500



11A-Ant2-5500



11A-Ant1-5580



11A-Ant2-5580



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11A-Ant2-5700



11A-Ant1-5745



11A-Ant2-5745



11A-Ant1-5785



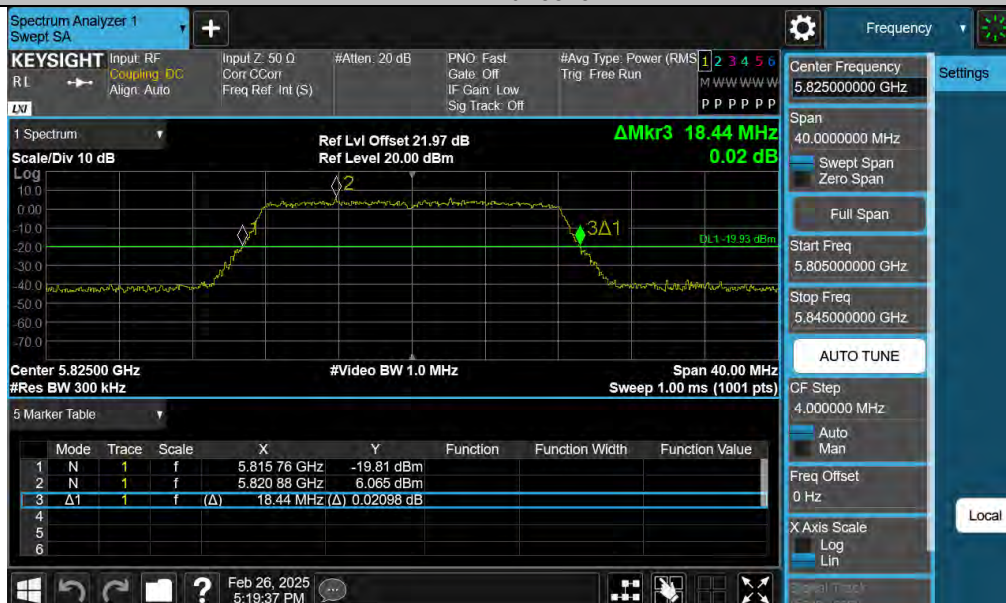
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11A-Ant1-5825



11A-Ant2-5825



11N20MIMO-Ant1-5180



11N20MIMO-Ant2-5180



11N20MIMO-Ant1-5200



11N20MIMO-Ant2-5200



11N20MIMO-Ant1-5240



11N20MIMO-Ant2-5240



11N20MIMO-Ant1-5260



11N20MIMO-Ant2-5260



11N20MIMO-Ant1-5300



11N20MIMO-Ant2-5300



11N20MIMO-Ant1-5320



11N20MIMO-Ant2-5320



11N20MIMO-Ant1-5500



11N20MIMO-Ant2-5500



11N20MIMO-Ant1-5580



11N20MIMO-Ant2-5580



11N20MIMO-Ant1-5700



11N20MIMO-Ant2-5700



11N20MIMO-Ant1-5745



11N20MIMO-Ant2-5745



11N20MIMO-Ant1-5785



11N20MIMO-Ant2-5785



11N20MIMO-Ant1-5825



11N20MIMO-Ant2-5825



11N40MIMO-Ant1-5190



11N40MIMO-Ant2-5190



11N40MIMO-Ant1-5230



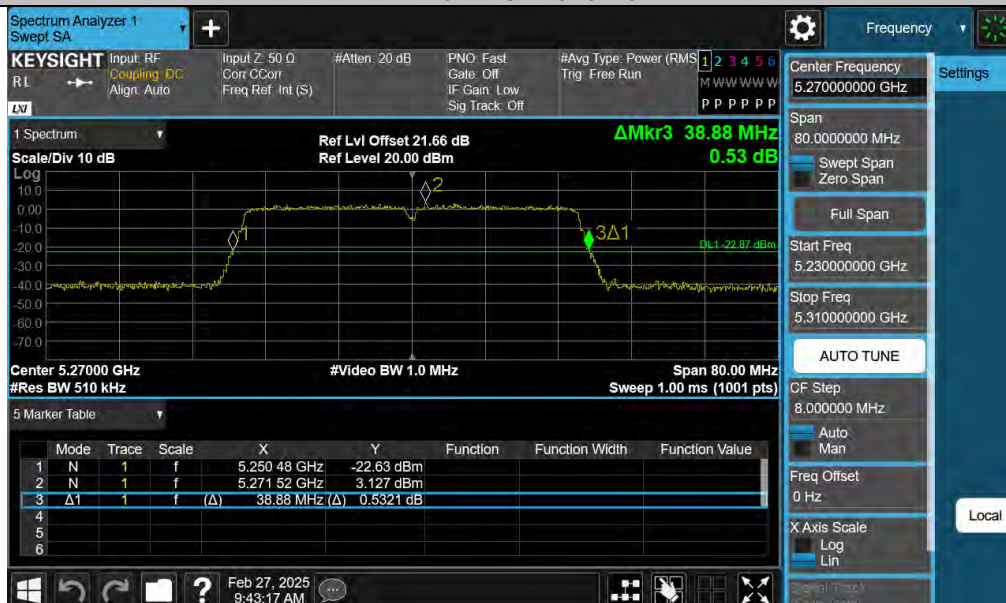
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11N40MIMO-Ant1-5270



11N40MIMO-Ant2-5270



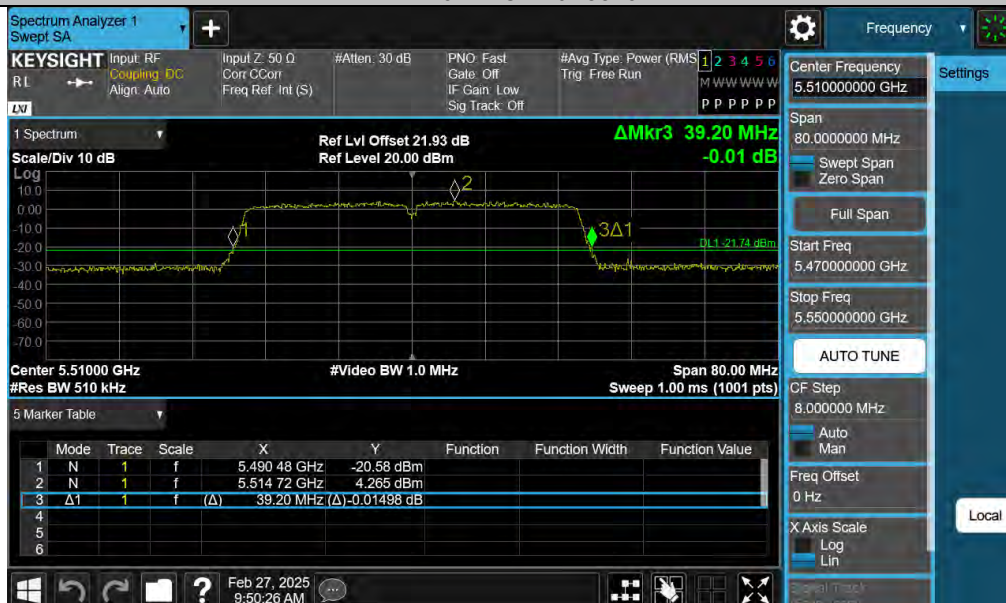
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11N40MIMO-Ant2-5310



11N40MIMO-Ant1-5510



11N40MIMO-Ant2-5510



11N40MIMO-Ant1-5550



11N40MIMO-Ant2-5550

