

Test Report

Applicant : ALPS ALPINE (China) Co., Ltd.
Address : 28A1,28th Floor,No.7 Guanghua Road,Chaoyang District,Beijing
Product Name : Wireless Display Audio
Brand Mark : 
Model : iLX-T810
Series model : iLX-T809,iLX-W807
Report Number : BLA-EMC-202503-A7705
FCC ID : 2BFB2-ILXT810
Date of Receipt : Mar.20, 2025
Date of Test : Mar.21, 2025 to Apr.15, 2025
Test Standard : 47 CFR Part 15, Subpart E 15.407
Test Result : Pass

Compiled by:

charlie

Review by:

Xavier

Approved by:

Jing Zheng

Issued Date:

Apr.15, 2025



BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China



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Revise Record

Version No.	Date	Description
01	Apr.15, 2025	Original

1 General information

1.1 General information

Applicant	ALPS ALPINE (China) Co., Ltd.
Address	28A1,28th Floor,No.7 Guanghua Road,Chaoyang District,Beijing
Manufacturer	ALPS ALPINE (China) Co., Ltd.
Address	28A1,28th Floor,No.7 Guanghua Road,Chaoyang District,Beijing
Factory	Huizhou Zhiyue Technology Co., Ltd.
Address	No. 1 and 2, Block 2, Luotang, Shuikou Street Office, Huicheng District, Huizhou City, Guangdong Province (Factory building)

1.2 General description of EUT

Product Name	Wireless Display Audio
Model No.	iLX-T810
Series model	iLX-T809,iLX-W807
Differences of Series model	declaration ,iLX-T810 and iLX-W807,iLX-T809 .Their electricalcircuit design layout, components used and internal wiring are identical,Only the model and size are different.
Operation Frequency	Band1: 5180MHz~5240MHz;Band2:5260MHz~5320MHz Band3: 5500MHz~5700MHz;Band4:5745MHz~5825MHz
Channel numbers	Band 1: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1 Band 2: 802.11a/802.11n(HT20)/802.11ac(HT20): 4, 802.11n(HT40)/802.11ac(HT40):2, 802.11ac(HT80): 1 Band 3: 802.11a/802.11n(HT20)/802.11ac(HT20): 8, 802.11n(HT40)/802.11ac(HT40):3, 802.11ac(HT80): 1 Band 4: 802.11a/802.11(HT20)/802.11ac(HT20): 5, 802.11n(HT40)/802.11ac(HT40): 2, 802.11ac(HT80): 1
Channel Spacing	802.11a/n/ac(HT20): 20MHz, 802.11n/ac(HT40): 40MHz, 802.11ac(HT80): 80MHz
Modulation Type	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE for 802.11ac(VHT20/VHT40/VHT80): OFDM(BPSK, QPSK, 16QAM, 64QAM,256QAM)
Transmit Data Rate	IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

	IEEE 802.11n HT20(1X1): up to 72.2 Mbps, HT40(1X1): up to 150 Mbps IEEE 802.11ac VHT20(1X1): up to 86.7 Mbps, VHT40(1X1): up to 200 Mbps, VHT80(1X1): up to 433.3 Mbps
DFS Operation Type	☐ Master Device ☐ Slaver Device with Radar detection function ☒ Slaver Device without Radar detection function
Antenna Type:	External antenna
Antenna Gain:	2.87dBi(Provided by customer)
Function	☒ SISO ☐ 2x2 MIMO ☐ TPC
Power supply or adapter information	DC12V
Hardware Version	0201-CP601M01V02-001
Software Version	V1.09.09-20250305
Engineer sample no	BLA-EMC-202503-A77
<i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i>	

2 Test summary

No.	Test item	FCC standard	Test Method (Clause)	Result
1	Antenna Requirement	§15.203	N/A	Pass
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2013 Clause 6.2	N/A
3	Frequency Stability	§15.407 (g)	ANSI C63.10-2013 Clause 6.8	Pass
4	Maximum Conducted output power	§15.407 (a)	KDB 789033 D02 II E	Pass
5	Transmitter Power Control	§15.407 (h)(1)	KDB 789033 D02 II E	N/A
6	Peak Power spectrum density	§15.407 (a)	KDB 789033 D02 II F	Pass
7	Minimum 6 dB bandwidth (5.725-5.85 GHz band)	§15.407 (e)	KDB 789033 D02 II C 2	Pass
8	26dB Emission bandwidth	§15.407 (a)	KDB 789033 D02 II C 1	Pass
9	99% Bandwidth	N/A	KDB 789033 II D	Pass
10	Duty Cycle	KDB 789033 D02 II B 1	KDB 789033 II B 1	Pass
11	Conducted Band Edges Measurement	§15.407 (b)(4)	ANSI C63.10-2013 Clause 11.13	Pass
12	Conducted spurious emissions	§15.407(b)	ANSI C63.10-2013 Clause 11.11	Pass
13	Radiated Emissions which fall in the restricted bands	§15.209 §15.407(b)	KDB 789033 D02 II G	Pass
14	Radiated Emissions	§15.209 §15.407(b)	KDB 789033 D02 II G	Pass
15	DFS: Channel Closing Transmission Time	§15.407((h)(2)	KDB 905462 D02 Clause 7.8.3	Pass
16	DFS: Non-occupancy period	§15.407((h)(2)	KDB 905462 D02 Clause 7.8.3	Pass

N/A: Not Applicable

3 Test Configuration

3.1 Test mode

Test Mode ^{Note 1}	Description
TX	Keep the EUT in continuously transmitting mode with modulation. (Duty cycle>98%)
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode Note 2 to fix the TX or Rx frequency that was for the purpose of the measurements.

Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Power level setup in software			
Test Software Name	PuTTY_0.67.0.0		
Mode	Channel	Frequency (MHz)	Soft Set
	Please refer to Chapter 3.2		TX level : default
OFDM			

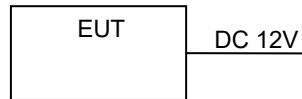
3.2 Operation frequency and test channel

802.11a/n/ac

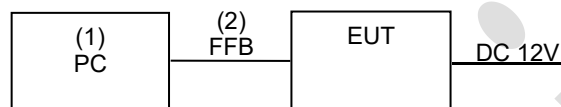
Band \ Bandwidth	20(MHz)		40(MHz)		80(MHz)	
	Channel number	frequency (MHz)	Channel number	frequency (MHz)	Channel number	frequency(M Hz)
U-NII-1	36	5180	38	5190	42	5210
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII-2A	52	5260	54	5270	58	5290
	56	5280				
	60	5300	62	5310		
	64	5320				
U-NII-2C	100	5500	102	5510	106	5530
	104	5520				
	108	5540	110	5550		
	112	5560				
	116	5580	--	--	--	--
	132	5660	134	5670	--	--
	136	5680			--	--
	140	5700	--	--	--	--
U-NII-3	149	5745	151	5755	155	5775
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825	--	--	--	--

3.3 Configuration diagram of EUT

Radiated emission:



RF Test:



Support equipment:

Name	Device type	Brand	Mode	Series No	Remark
(1)	PC	lenovo	E460C	N/A	N/A
(2)	Fixed frequency board	N/A	N/A	N/A	N/A

3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	lenovo	E46OC	N/A	From lab (No.BLA-ZC-BS-2022005)
Rechargeable battery	OUTDO	UTX7L-BS	N/A	From lab (No.BLA-ZC-PJ-2023005)

Note:“--” mean no any auxiliary device during testing.

3.5 Test environment

Temperature	Normal	25°C
	Low Extreme	0°C
	High Extreme	+70°C
Voltage	Normal	DC 12V
	Low Extreme	DC 10.8V
	High Extreme	DC 13.2V

4 Laboratory information

4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	$\pm 4.34\text{dB}$
Radiated Emission(30Mz-1000MHz)	$\pm 4.24\text{dB}$
Radiated Emission(1GHz-18GHz)	$\pm 4.68\text{dB}$
AC Power Line Conducted Emission(150kHz-30MHz)	$\pm 3.45\text{dB}$
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 1.5\text{ dB}$
Power Spectral Density, conducted	$\pm 3.0\text{ dB}$
Unwanted Emissions, conducted	$\pm 3.0\text{ dB}$
Temperature	$\pm 3\text{ }^{\circ}\text{C}$
Supply voltages	$\pm 3\%$
Time	$\pm 5\%$

5 Test equipment

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2024/06/29	2026/06/28
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2024/06/29	2026/06/27
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

Radiated Spurious Emissions (Above 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2024/08/08	2025/08/07
BLA-EMC-012	Broadband antenna	VULB9168	Schwarzbeck	00836 P:00227	2022/10/12	2025/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2024/06/29	2026/06/28
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA201804 3003	2024/08/08	2025/08/07
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2024/06/28	2025/06/27
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2024/06/28	2025/06/27
BLA-EMC-066	Amplifier	LNPA_30M01 G-30	SKET	SK202106 0801	2024/06/28	2025/06/27
BLA-EMC-086	Amplifier	LNPA_18G40 G-50dB	SKET	SK202207 1301	2024/06/28	2025/06/27
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2024/06/29	2026/06/28
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

RF conducted

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-003	Shield room	5*3*3	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2024/06/28	2025/06/27
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2024/08/08	2025/08/07
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889SN042	2024/08/08	2025/08/07
BLA-EMC-044	Radio communication tester	CMW500	R&S	132429	2024/08/08	2025/08/07
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2024/06/28	2025/06/27
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2024/08/08	2025/08/07
BLA-EMC-088	Audio Analyzer	ATS-1	Audio Precision	ATS141094	2024/06/28	2025/06/27

Test Software Record

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF

6 Test result

6.1 Antenna requirement

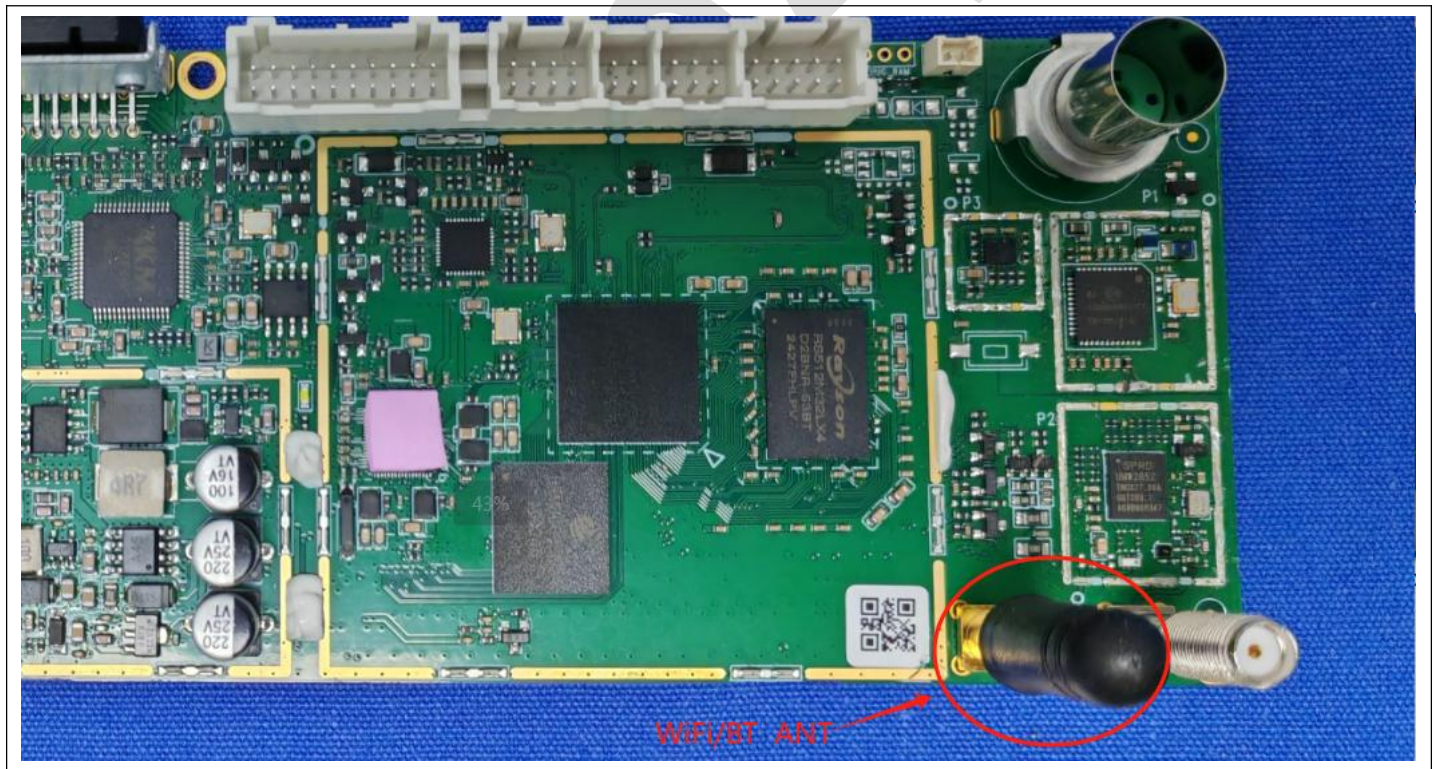
Test Standard	47 CFR Part 15, Subpart C 15.203
Test Method	N/A

6.1.1 Requirement

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is internal External antenna. The best case gain of the antenna is 2.87 dBi.



6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

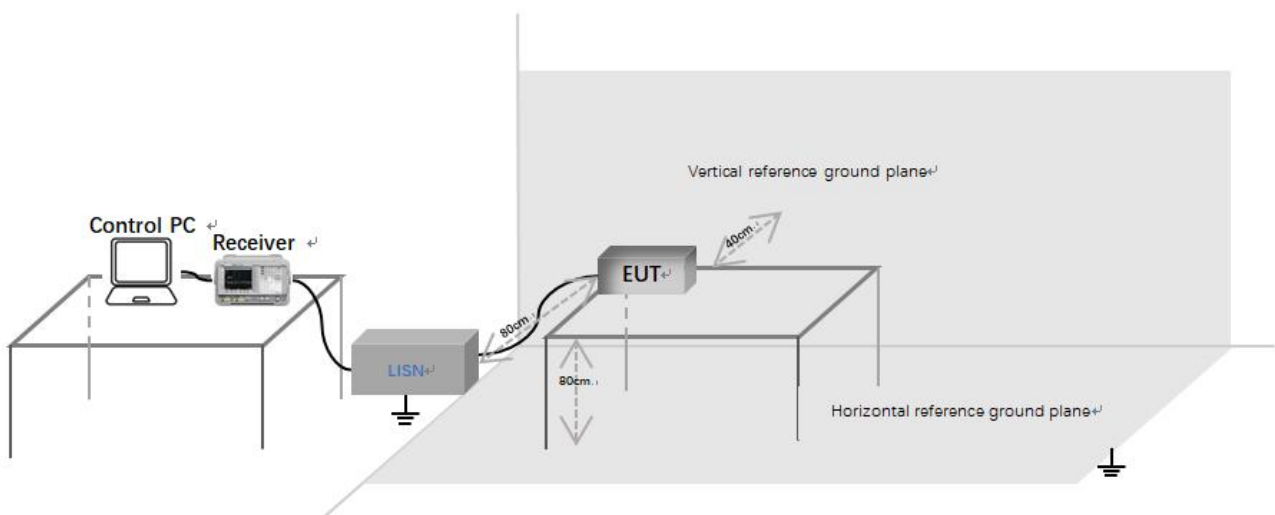
Test Standard	47 CFR Part 15, Subpart C 15.207
Test Method	ANSI C63.10-2013 Cluase6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.2.1 Limit

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable;
- The receiver is connected to the LISN through a coaxial line;
- Connect the power port of LISN to the EUT.

6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

6.2.4 Test data

N/A: Not Applicable

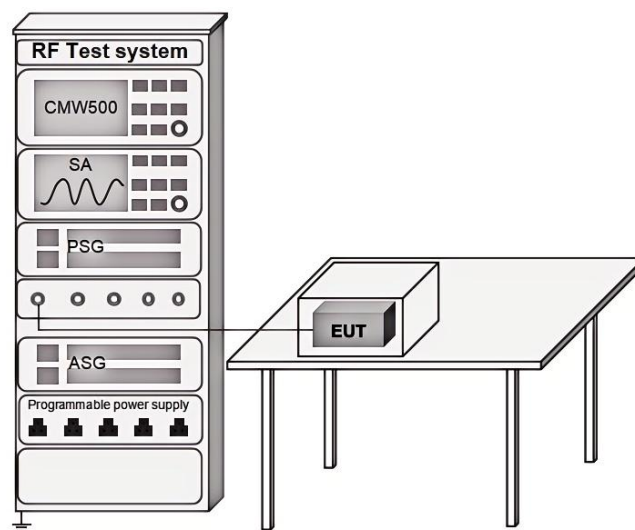
6.3 Frequency Stability

Test Standard	47 CFR Part 15, Subpart E 15.407(g)
Test Method	ANSI C63.10-2013 Cluase6.8
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.3.1 Limit

The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

6.3.2 Test setup



6.3.3 Test data

Pass: Please refer to appendix A for details

6.4 Maximum conducted output Power

Test Standard	47 CFR Part 15, Subpart E 15.407 (a)
Test Method	KDB 789033 D02 II E
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

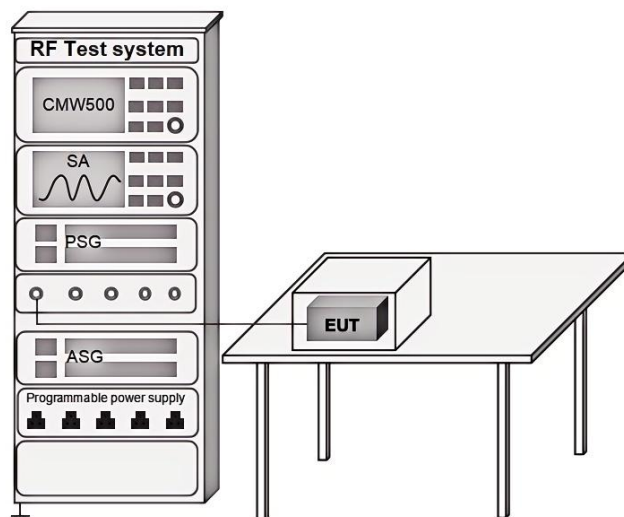
6.4.1 Limit

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)

Remark:* Where B is the 26dB emission bandwidth in MHz.

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

6.4.2 Test setup



6.4.3 Test data

Pass: Please refer to appendix A for details

BlueAsia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com

Report version : V1.3

6.5 Peak power spectrum density

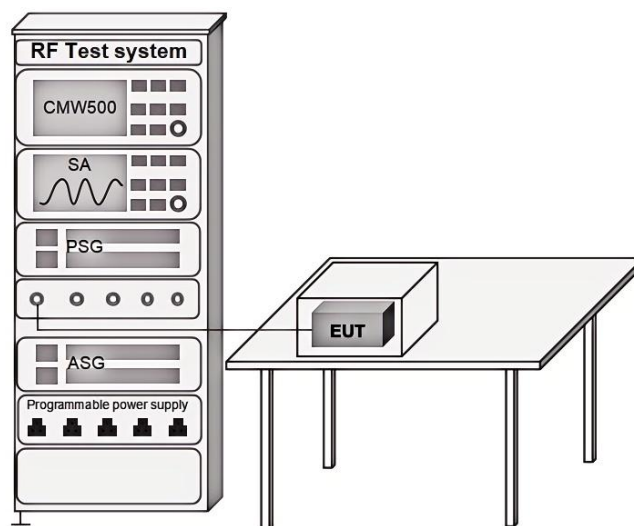
Test Standard	47 CFR Part 15, Subpart E 15.407 (a)
Test Method	KDB 789033 D02 II F
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.5.1 Limit

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz

Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

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Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com

Report version: V1.3

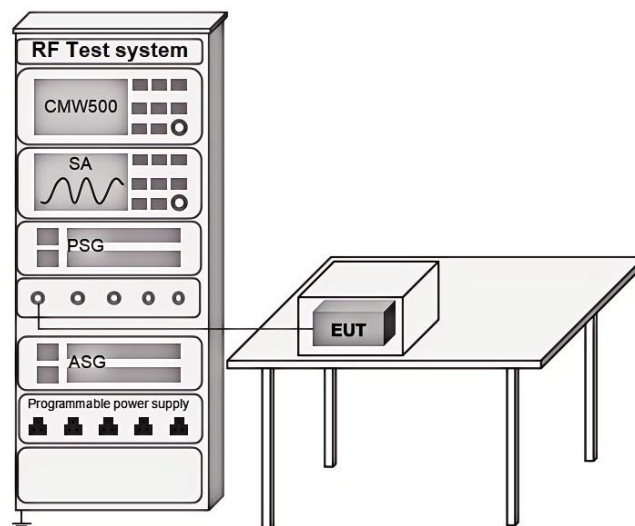
6.6 Minimum 6dB bandwidth (5.725-5.85 GHz band)

Test Standard	47 CFR Part 15, Subpart E 15.407 (e)
Test Method	KDB 789033 D02 II C 2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.6.1 Limit

≥500 kHz

6.6.2 Test setup



6.6.3 Test data

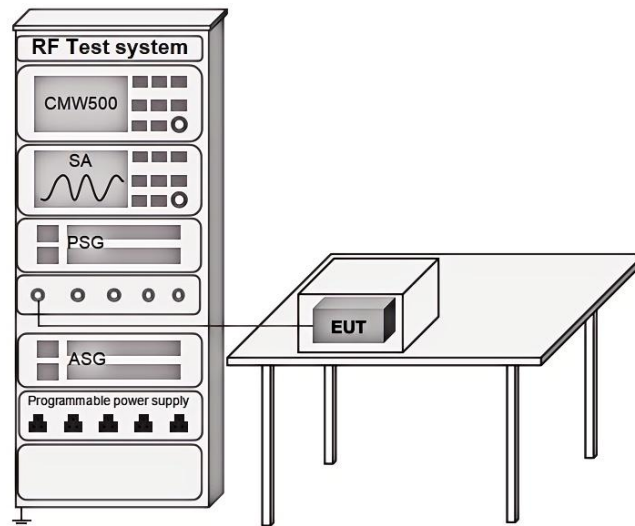
Pass: Please refer to appendix A for details

6.7 26dB Emission bandwidth

Test Standard	47 CFR Part 15, Subpart E 15.407 (a)
Test Method	KDB 789033 D02 II C 1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.7.1 Limit

6.7.2 Test setup



6.7.3 Test data

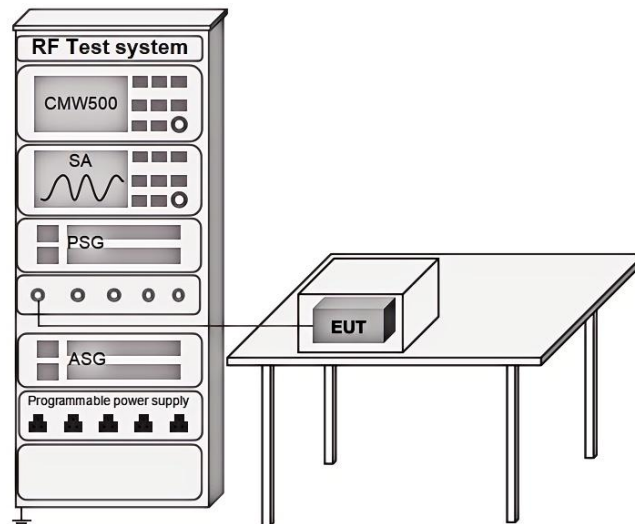
Pass: Please refer to appendix A for details

6.8 99% Bandwidth

Test Standard	N/A
Test Method	KDB 789033 II D
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.8.1 Limit

6.8.2 Test setup



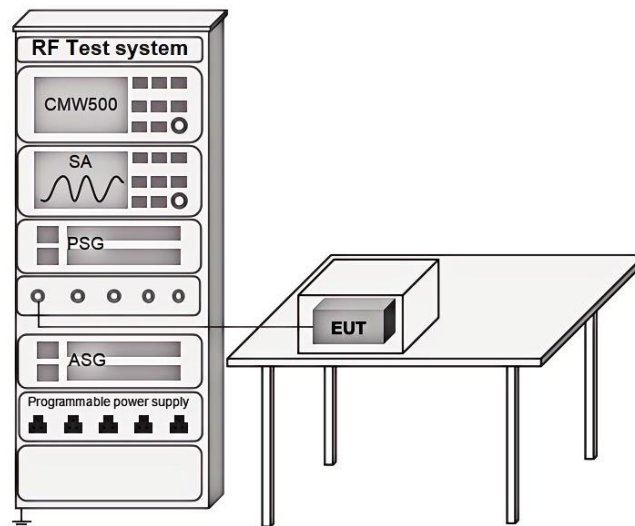
6.8.3 Test data

Pass: Please refer to appendix A for details

6.9 Duty Cycle

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 II B 1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.9.1 Test setup



6.9.2 Test data

Pass: Please refer to appendix A for details

6.10 Conducted Band Edges Measurement

Test Standard	47 CFR Part 15, Subpart C 15.407(b)(4)
Test Method	ANSI C63.10-2013 Cluase7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.10.1 Limit

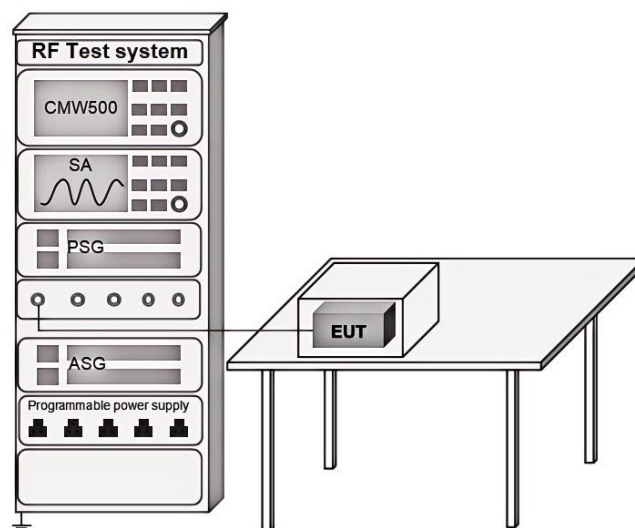
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.10.2 Test setup



6.10.3 Test data

Pass: Please refer to appendix A for details

BlueAsia

6.11 Conducted spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.407
Test Method	ANSI C63.10-2013 Clause 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.11.1 Limit

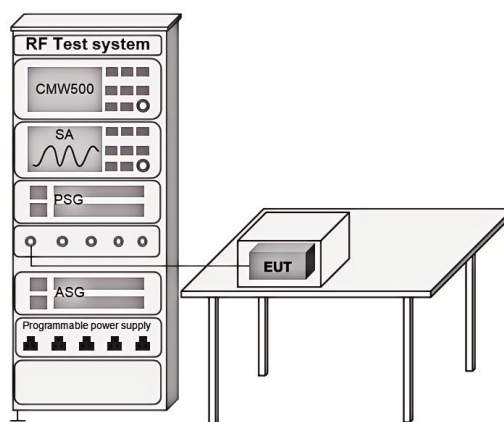
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.11.2 Test setup



6.11.3 Test data

Pass: Please refer to appendix A for details

BlueAsia

6.12 Radiated emissions

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II G
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

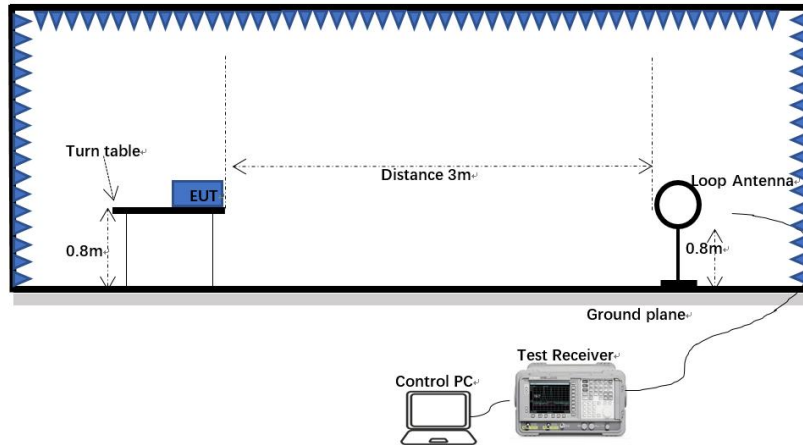
6.12.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

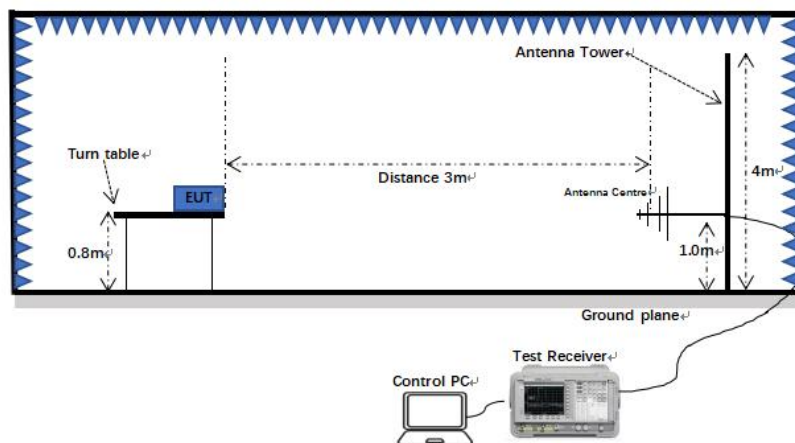
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.12.2 Test setup

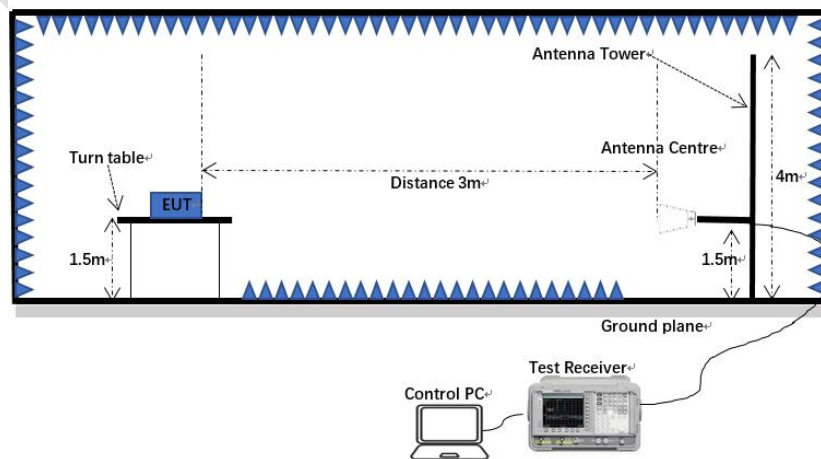
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.12.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 40GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

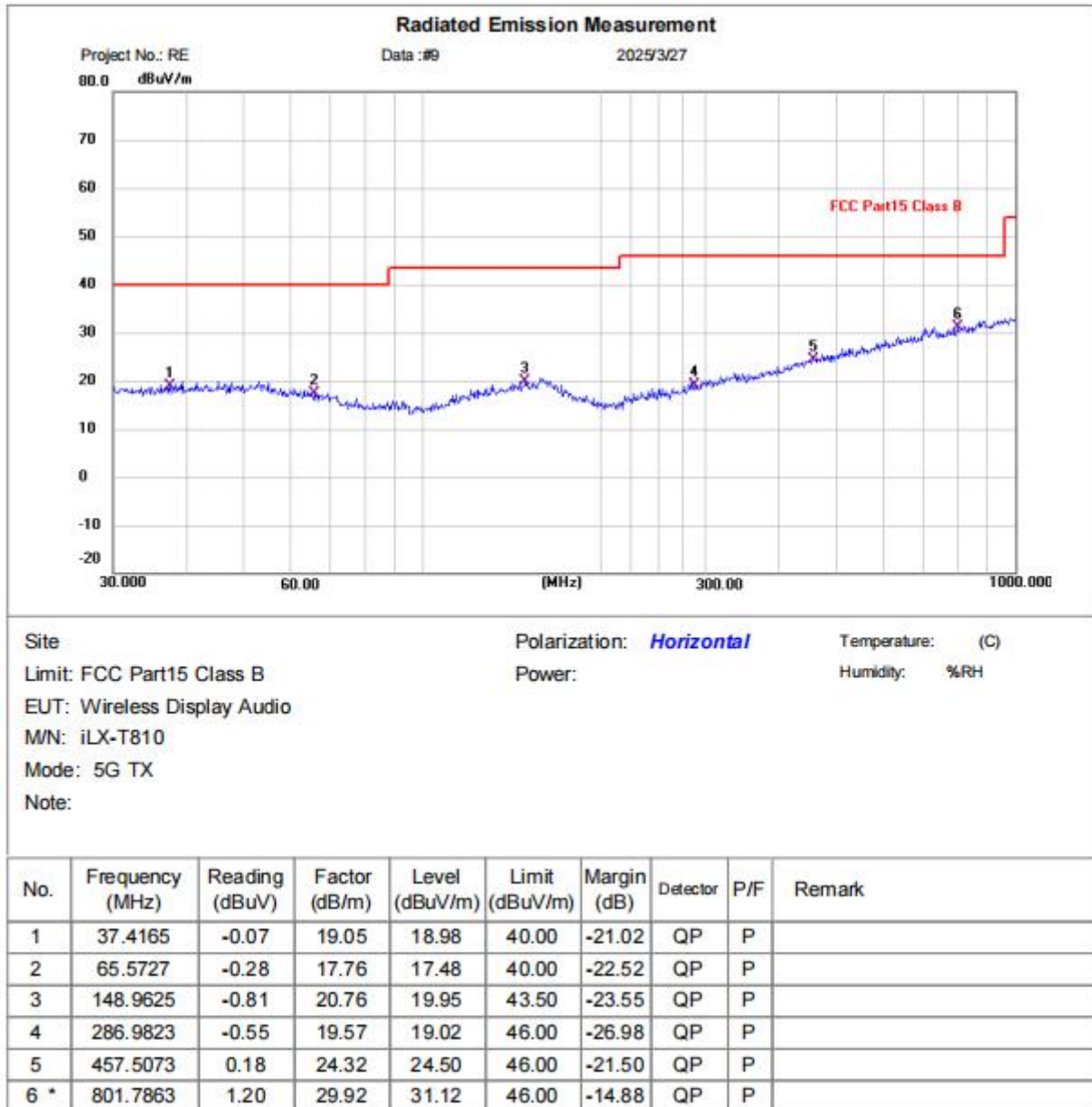
$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

6.12.4 Test data

Below 1GHz:

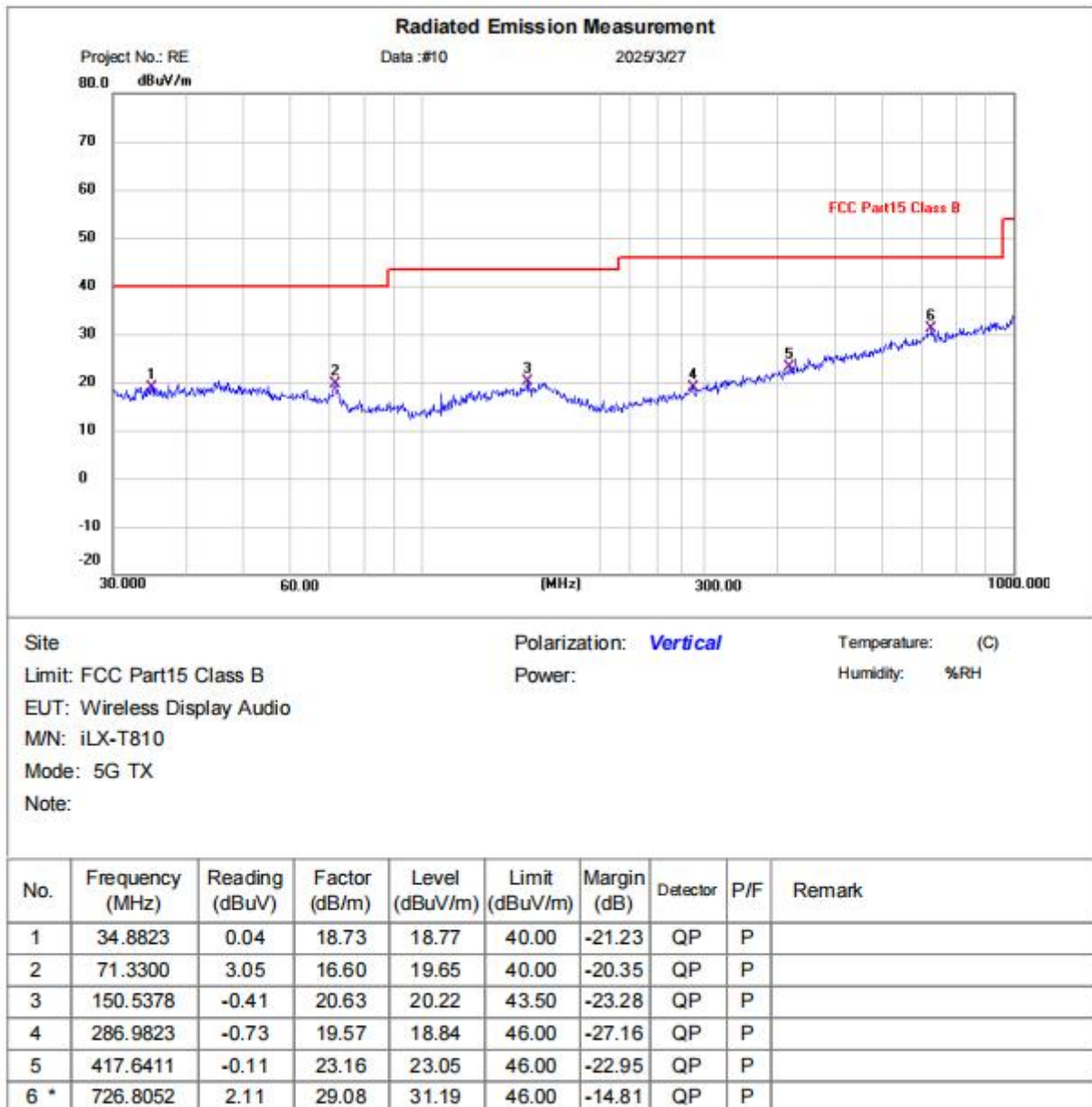
Remark: During the test, pre-scan the (Band1-4)802.11a/n(HT20/40)/ac(VHT20/40/80) mode, and found the 802.11a mode which it is worse case, only the worse case lowest channel of 6Mbps for 802.11a was recorded in the report.

[Test mode: TX mode]; [Polarity: Horizontal]



Test Result: Pass

[Test mode: TX mode]; [Polarity: Vertical]

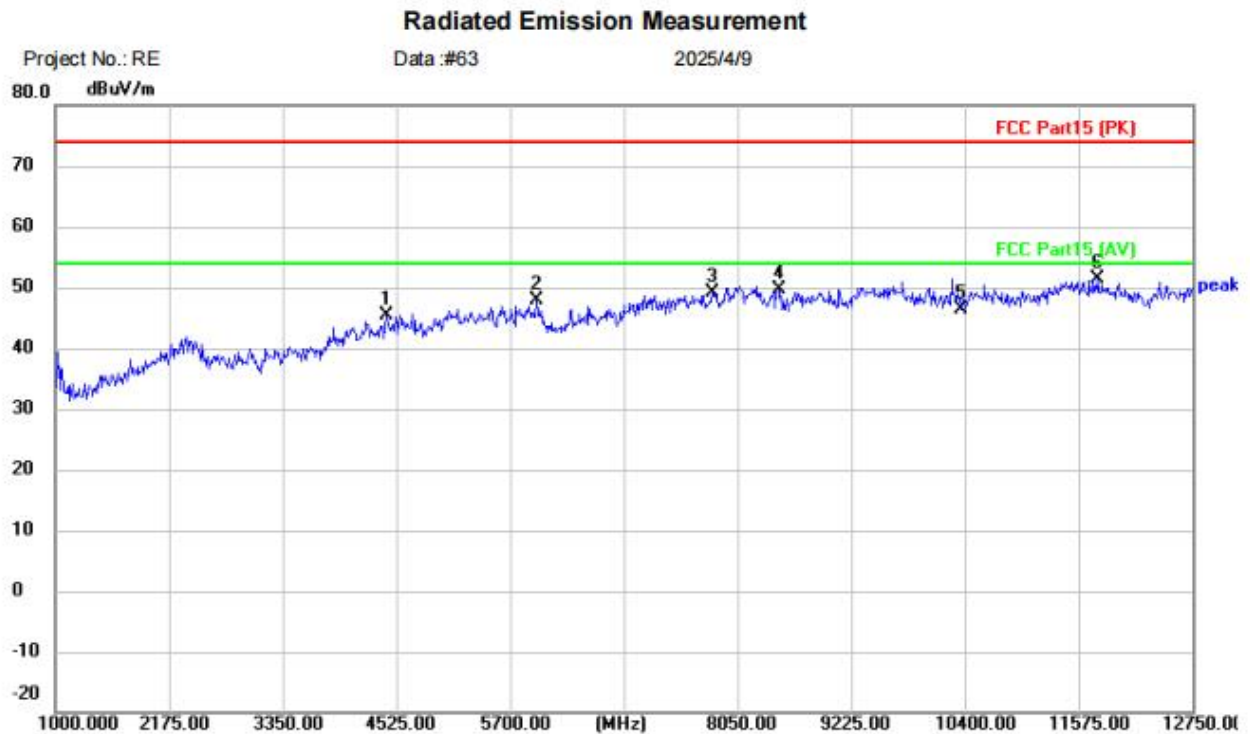


Test Result: Pass

Above 1GHz:

Remark: During the test, pre-scan the (Band1-4)802.11a/n(HT20/40)/ac(VHT20/40/80) mode, and found the 802.11a mode which it is worse case, only the worse case 6Mbps for 802.11a was recorded in the report.

[Test mode:Band1 TX low channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

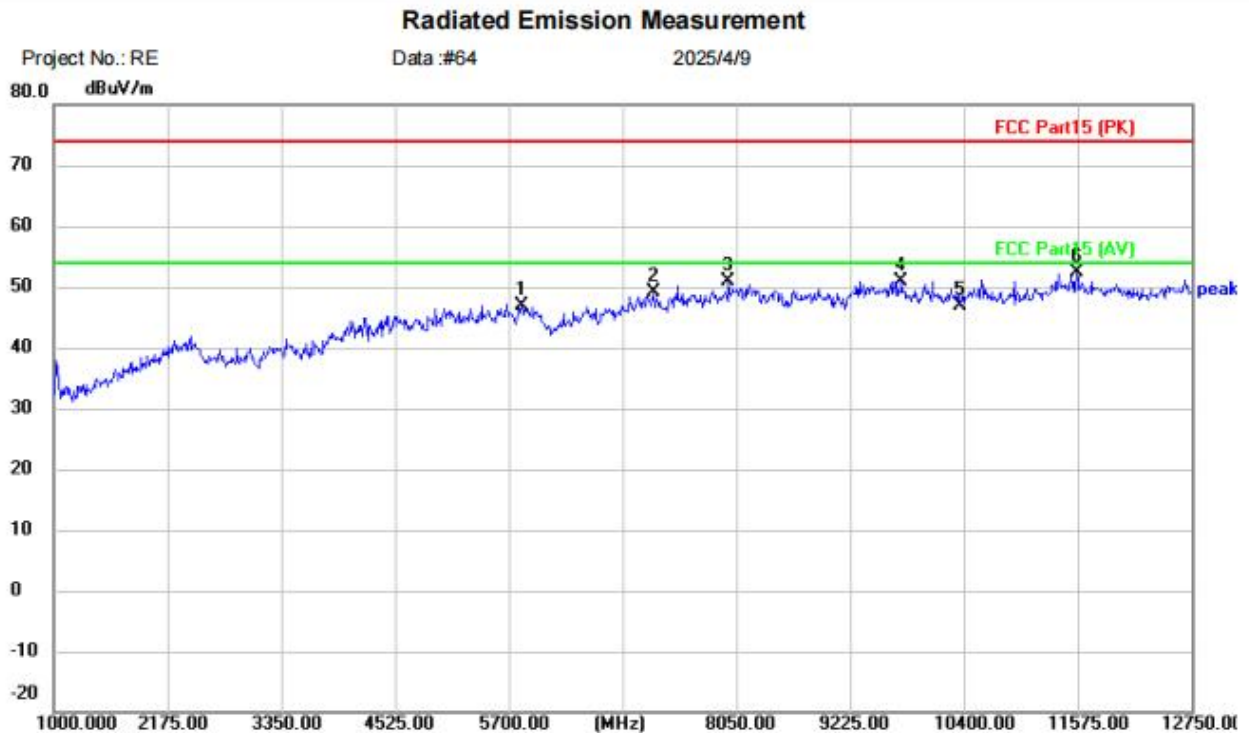
Mode: 5G A TX 5180

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4419.250	40.08	5.22	45.30	74.00	-28.70	peak	
2		5970.250	38.83	8.99	47.82	74.00	-26.18	peak	
3		7791.500	38.58	10.67	49.25	74.00	-24.75	peak	
4		8473.000	38.06	11.45	49.51	74.00	-24.49	peak	
5		10360.00	32.96	13.53	46.49	74.00	-27.51	peak	
6	*	11774.75	37.79	13.47	51.26	74.00	-22.74	peak	

Test Result: Pass

[Test mode:Band1 TX low channel]; [Polarity: Vertical]

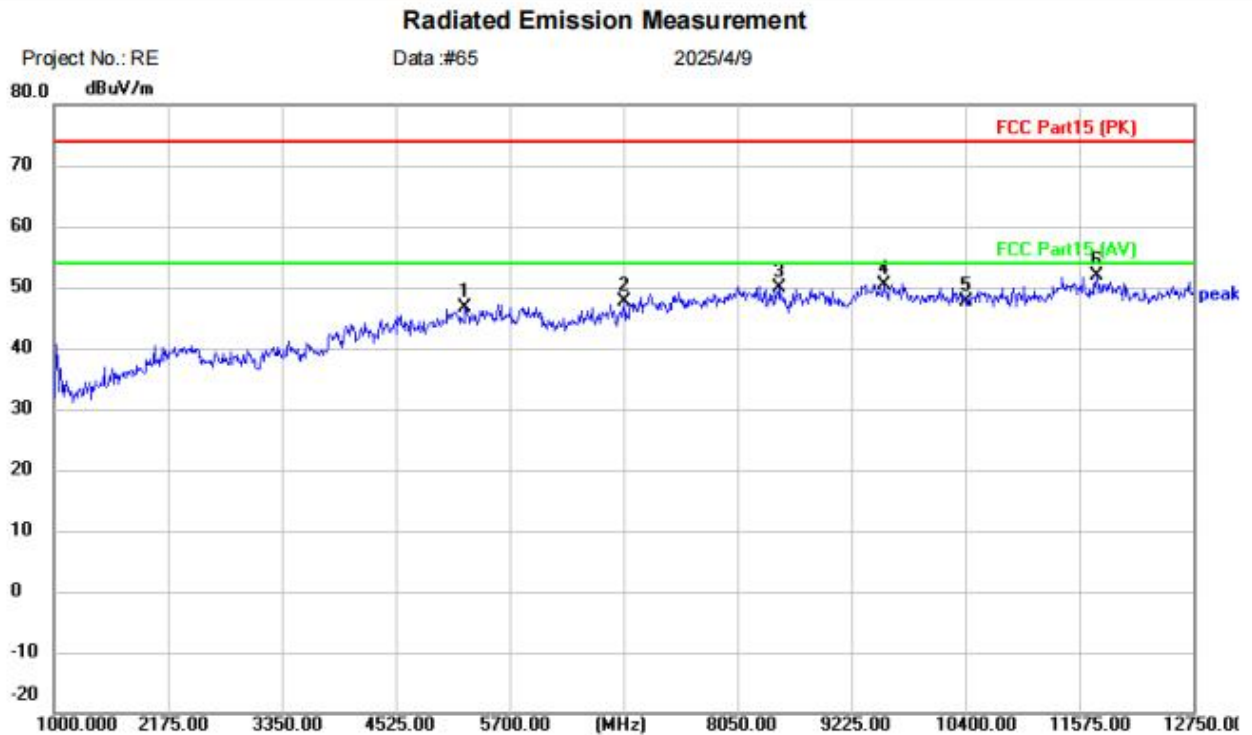


Site: Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Wireless Display Audio
M/N: iLX-T810
Mode: 5G A TX 5180
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5829.250	37.83	8.93	46.76	74.00	-27.24	peak	
2		7192.250	38.79	10.43	49.22	74.00	-24.78	peak	
3		7967.750	39.40	11.41	50.81	74.00	-23.19	peak	
4		9753.750	37.17	13.80	50.97	74.00	-23.03	peak	
5		10360.00	33.36	13.53	46.89	74.00	-27.11	peak	
6	*	11563.25	37.48	14.81	52.29	74.00	-21.71	peak	

Test Result: Pass

[Test mode:Band1 TX middle channel]; [Polarity: Horizontal]

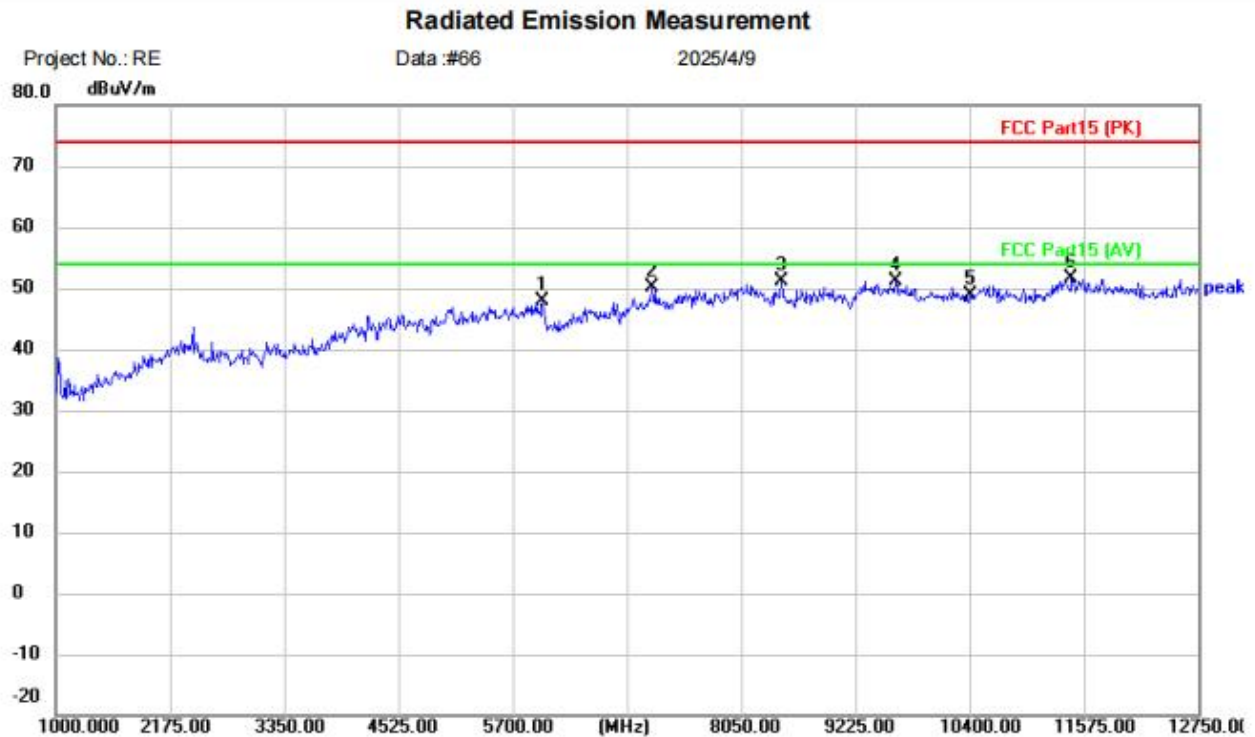


Site: Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Wireless Display Audio
 M/N: iLX-T810
 Mode: 5G A TX 5200
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5241.750	39.11	7.41	46.52	74.00	-27.48	peak	
2		6886.750	38.44	9.07	47.51	74.00	-26.49	peak	
3		8484.750	38.55	11.43	49.98	74.00	-24.02	peak	
4		9554.000	37.28	13.19	50.47	74.00	-23.53	peak	
5		10400.00	34.03	13.51	47.54	74.00	-26.46	peak	
6	*	11751.25	38.47	13.47	51.94	74.00	-22.06	peak	

Test Result: Pass

[Test mode:Band1 TX middle channel]; [Polarity: Vertical]

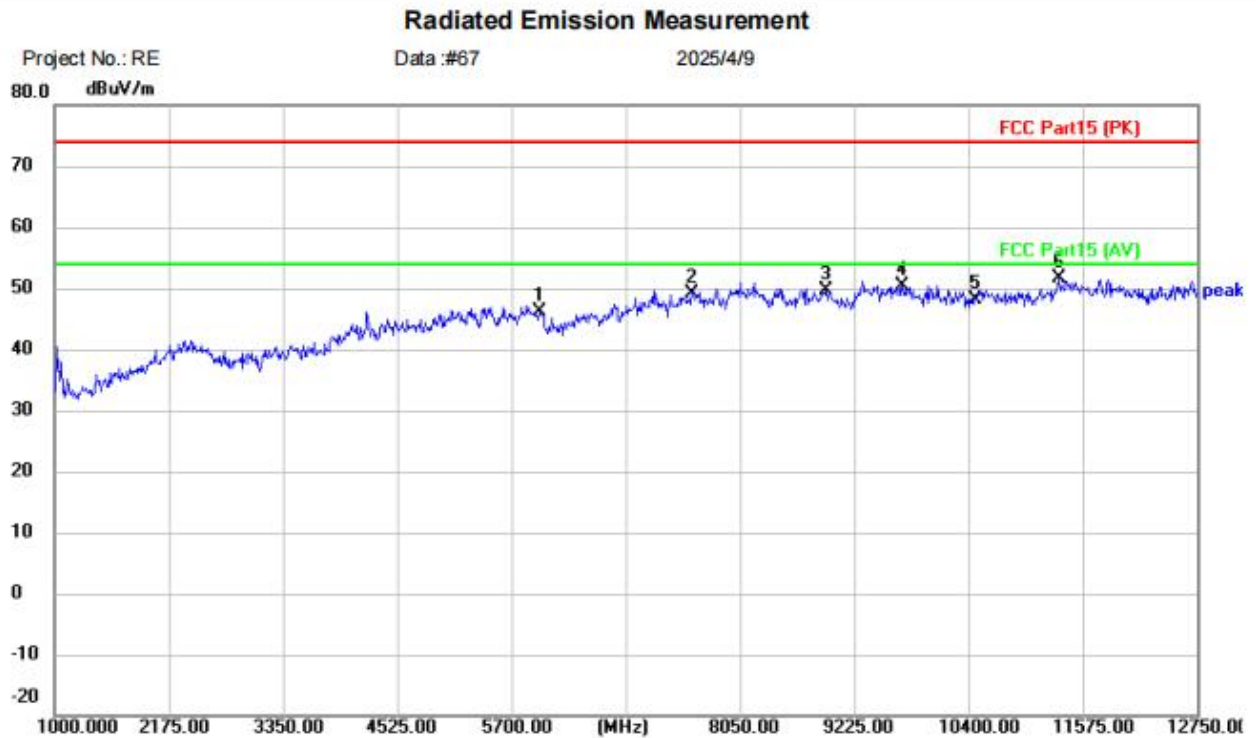


Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Wireless Display Audio		
M/N: iLX-T810		
Mode: 5G A TX 5200		
Note:		

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	6005.500	41.96	5.84	47.80	74.00	-26.20	peak	
2	7133.500	39.61	10.57	50.18	74.00	-23.82	peak	
3	8461.250	39.56	11.47	51.03	74.00	-22.97	peak	
4	9636.250	37.85	13.35	51.20	74.00	-22.80	peak	
5	10400.00	35.30	13.51	48.81	74.00	-25.19	peak	
6 *	11445.75	37.05	14.55	51.60	74.00	-22.40	peak	

Test Result: Pass

[Test mode:Band1 TX High channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

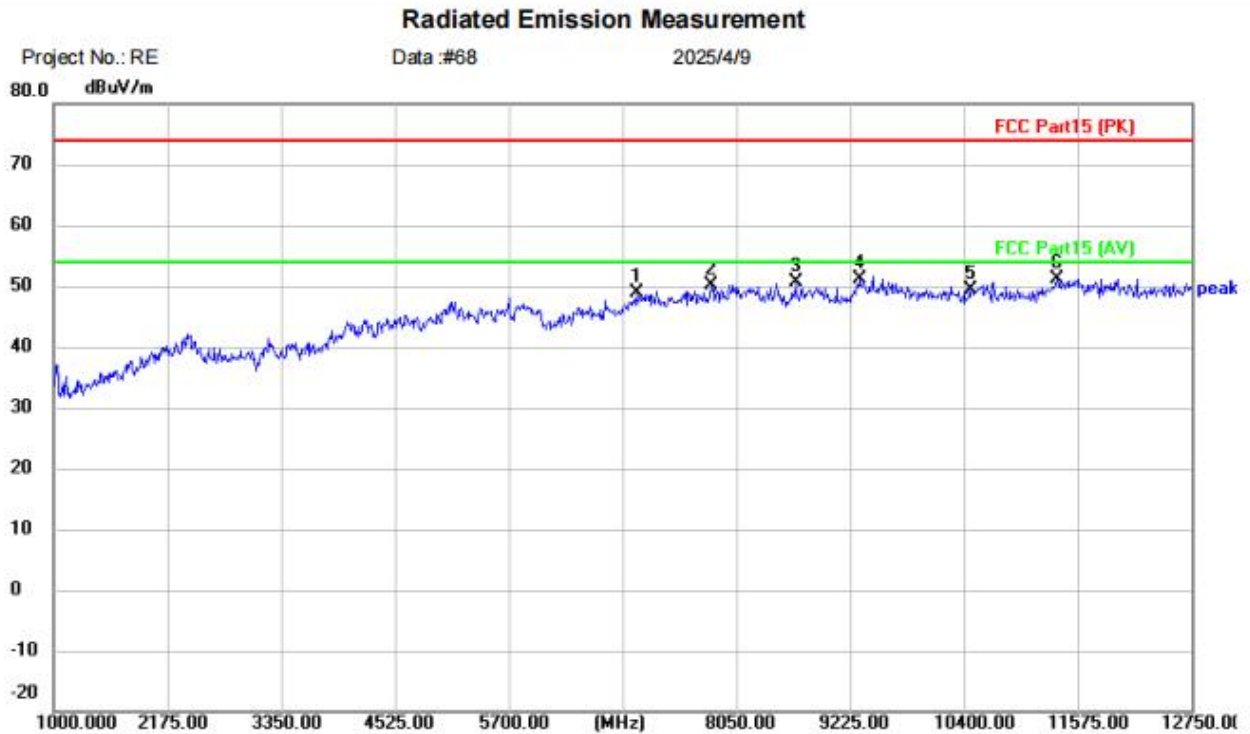
Mode: 5G A TX 5240

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5982.000	37.10	8.98	46.08	74.00	-27.92	peak	
2		7556.500	38.37	10.72	49.09	74.00	-24.91	peak	
3		8931.250	37.51	12.19	49.70	74.00	-24.30	peak	
4		9718.500	36.72	13.63	50.35	74.00	-23.65	peak	
5		10480.00	34.39	13.70	48.09	74.00	-25.91	peak	
6	*	11328.25	38.25	13.47	51.72	74.00	-22.28	peak	

Test Result: Pass

[Test mode:Band1 TX High channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

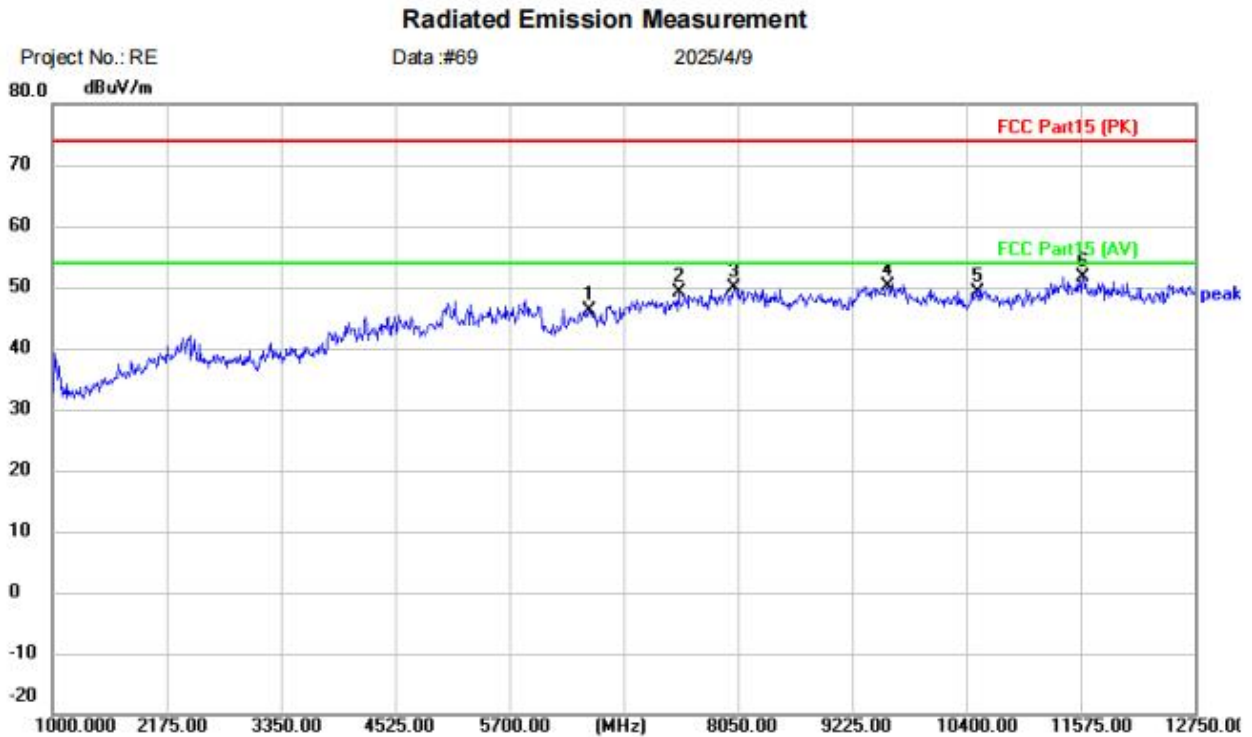
Mode: 5G A TX 5240

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7016.000	39.27	9.72	48.99	74.00	-25.01	peak	
2		7791.500	39.44	10.67	50.11	74.00	-23.89	peak	
3		8661.000	38.94	11.79	50.73	74.00	-23.27	peak	
4		9319.000	37.86	13.21	51.07	74.00	-22.93	peak	
5		10480.00	35.75	13.70	49.45	74.00	-24.55	peak	
6	*	11363.50	37.22	13.87	51.09	74.00	-22.91	peak	

Test Result: Pass

[Test mode:Band2 TX low channel]; [Polarity: Horizontal]



Site: Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

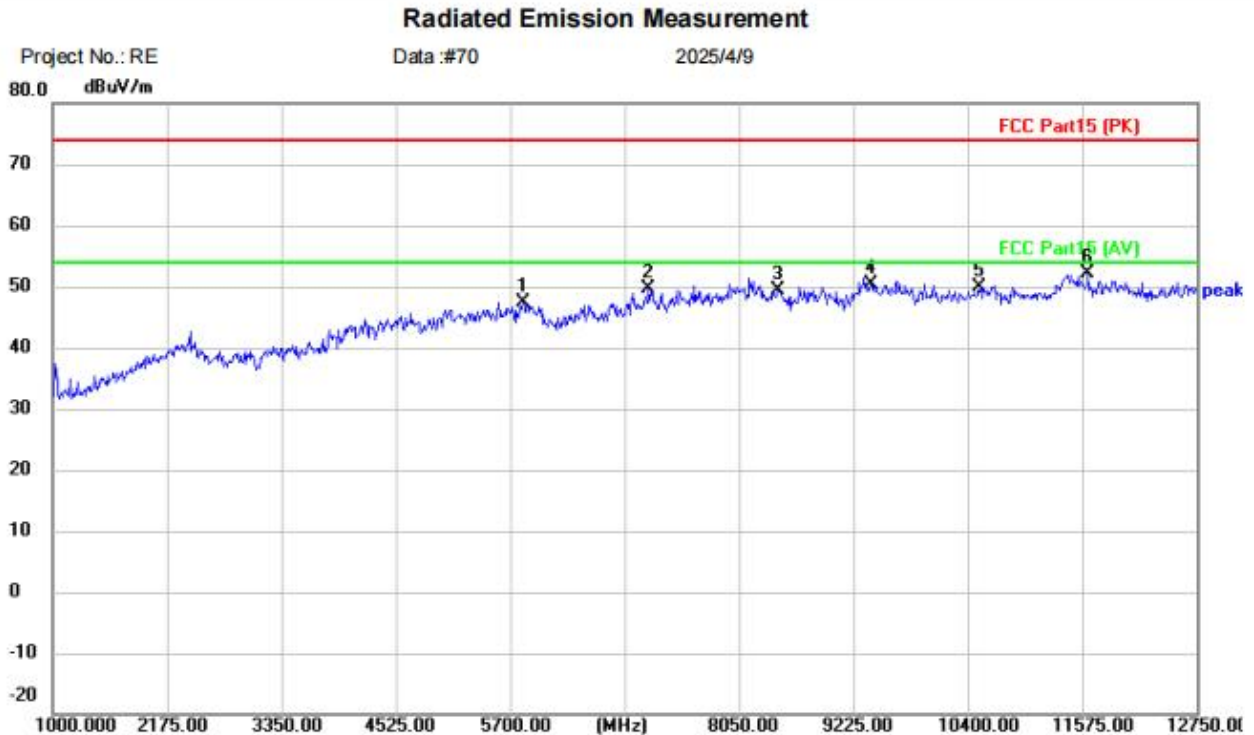
Mode: 5G A TX 5260

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		6522.500	37.70	8.45	46.15	74.00	-27.85	peak	
2		7439.000	38.19	11.01	49.20	74.00	-24.80	peak	
3		8003.000	38.33	11.61	49.94	74.00	-24.06	peak	
4		9589.250	37.24	12.98	50.22	74.00	-23.78	peak	
5		10520.00	35.31	13.72	49.03	74.00	-24.97	peak	
6	*	11598.50	36.90	14.77	51.67	74.00	-22.33	peak	

Test Result: Pass

[Test mode:Band2 TX low channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

Mode: 5G A TX 5260

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5829.250	38.54	8.93	47.47	74.00	-26.53	peak	
2		7121.750	39.05	10.50	49.55	74.00	-24.45	peak	
3		8449.500	37.97	11.50	49.47	74.00	-24.53	peak	
4		9401.250	37.54	12.72	50.26	74.00	-23.74	peak	
5		10520.00	36.06	13.72	49.78	74.00	-24.22	peak	
6	*	11633.75	37.82	14.33	52.15	74.00	-21.85	peak	

Test Result: Pass

[Test mode:Band2 TX middle channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

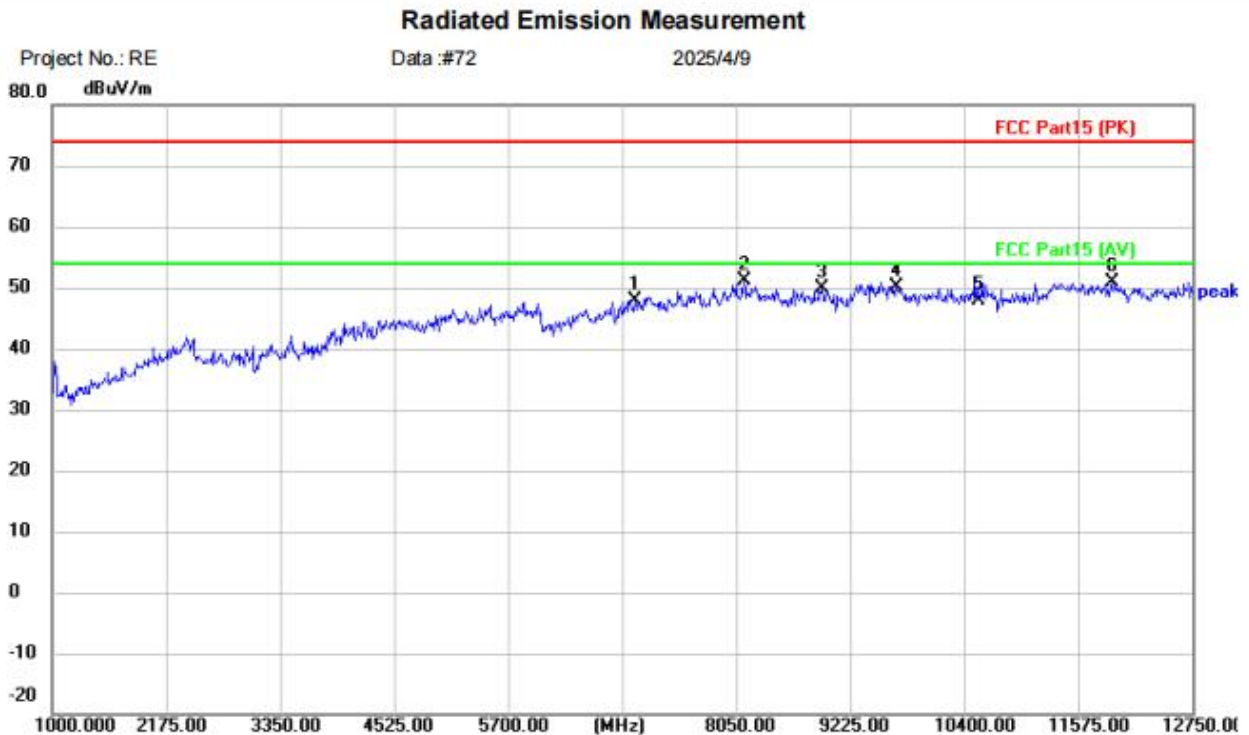
Mode: 5G A TX 5280

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5312.250	39.80	7.61	47.41	74.00	-26.59	peak	
2		7568.250	38.31	10.70	49.01	74.00	-24.99	peak	
3		8191.000	39.16	11.50	50.66	74.00	-23.34	peak	
4		9507.000	38.38	12.52	50.90	74.00	-23.10	peak	
5		10560.00	36.30	13.66	49.96	74.00	-24.04	peak	
6	*	11457.50	37.00	14.62	51.62	74.00	-22.38	peak	

Test Result: Pass

[Test mode:Band2 TX middle channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: ILX-T810

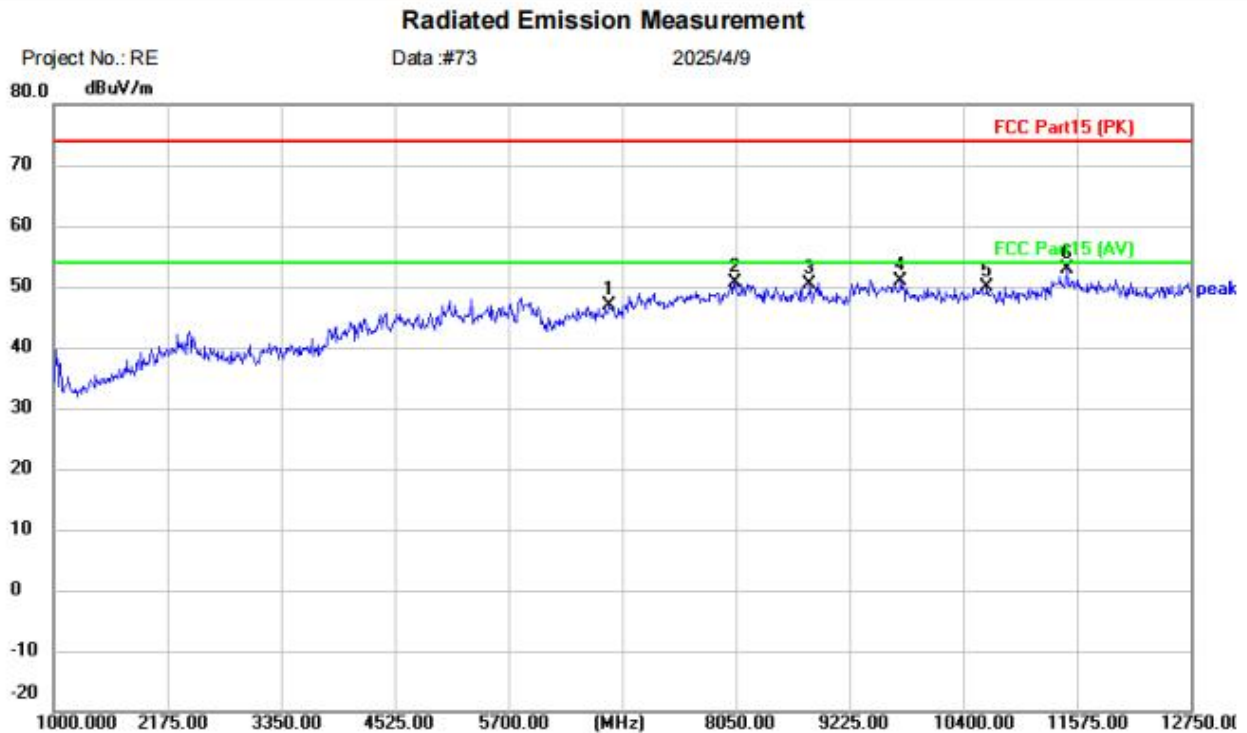
Mode: 5G A TX 5280

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		7004.250	38.40	9.52	47.92	74.00	-26.08	peak	
2	*	8132.250	39.54	11.61	51.15	74.00	-22.85	peak	
3		8931.250	37.73	12.19	49.92	74.00	-24.08	peak	
4		9695.000	36.61	13.51	50.12	74.00	-23.88	peak	
5		10560.00	34.21	13.66	47.87	74.00	-26.13	peak	
6		11927.50	37.18	13.75	50.93	74.00	-23.07	peak	

Test Result: Pass

[Test mode:Band2 TX High channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

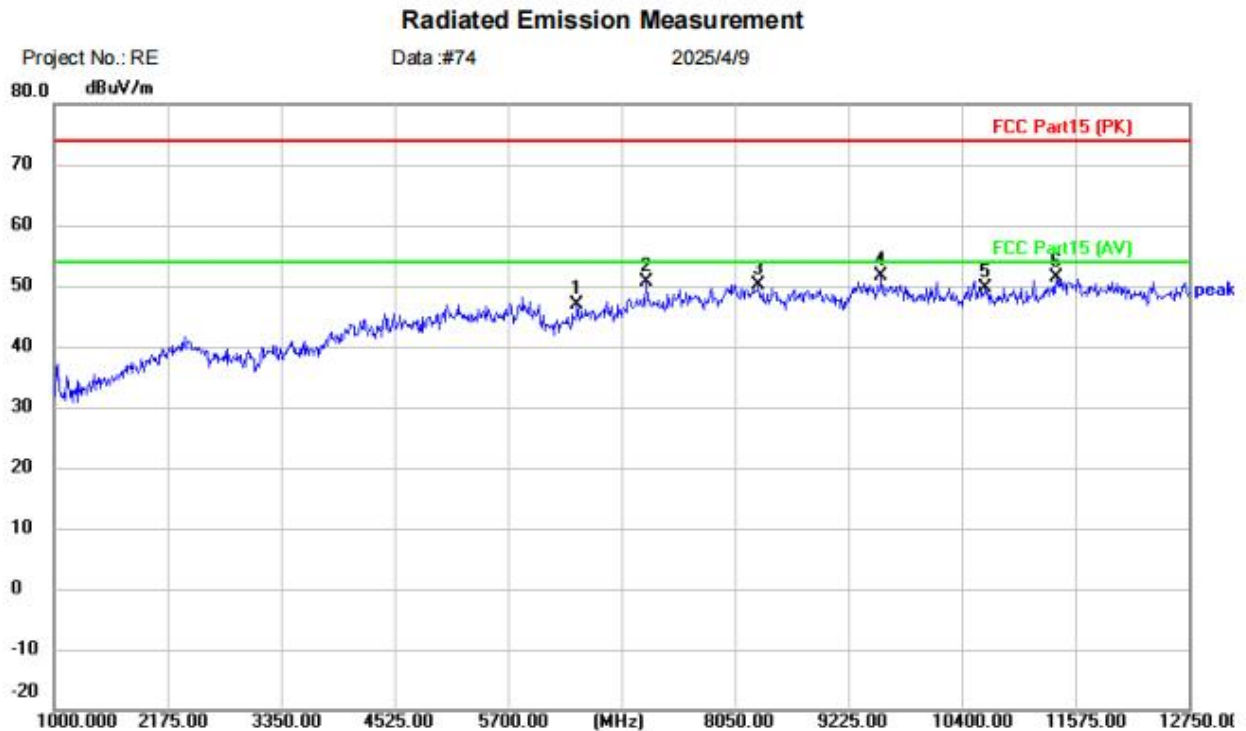
Mode: 5G A TX 5320

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		6734.000	37.98	8.97	46.95	74.00	-27.05	peak	
2		8038.250	39.06	11.68	50.74	74.00	-23.26	peak	
3		8813.750	38.34	12.15	50.49	74.00	-23.51	peak	
4		9753.750	37.15	13.80	50.95	74.00	-23.05	peak	
5		10640.00	36.50	13.29	49.79	74.00	-24.21	peak	
6	*	11469.25	38.19	14.69	52.88	74.00	-21.12	peak	

Test Result: Pass

[Test mode:Band2 TX High channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

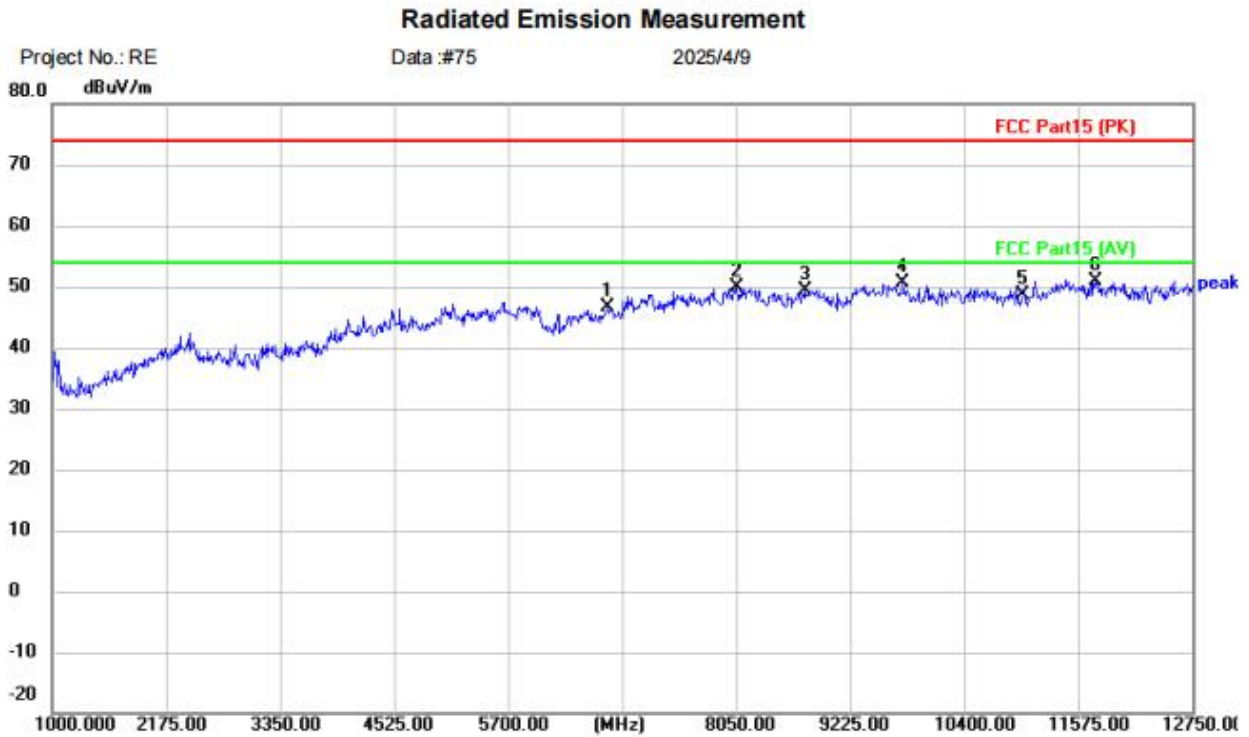
Mode: 5G A TX 5320

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		6416.750	38.79	8.13	46.92	74.00	-27.08	peak	
2		7133.500	40.08	10.57	50.65	74.00	-23.35	peak	
3		8296.750	39.10	11.00	50.10	74.00	-23.90	peak	
4	*	9565.750	38.60	13.12	51.72	74.00	-22.28	peak	
5		10640.00	36.26	13.29	49.55	74.00	-24.45	peak	
6		11375.25	37.48	13.99	51.47	74.00	-22.53	peak	

Test Result: Pass

[Test mode:Band3 TX low channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

Mode: 5G A TX 5500

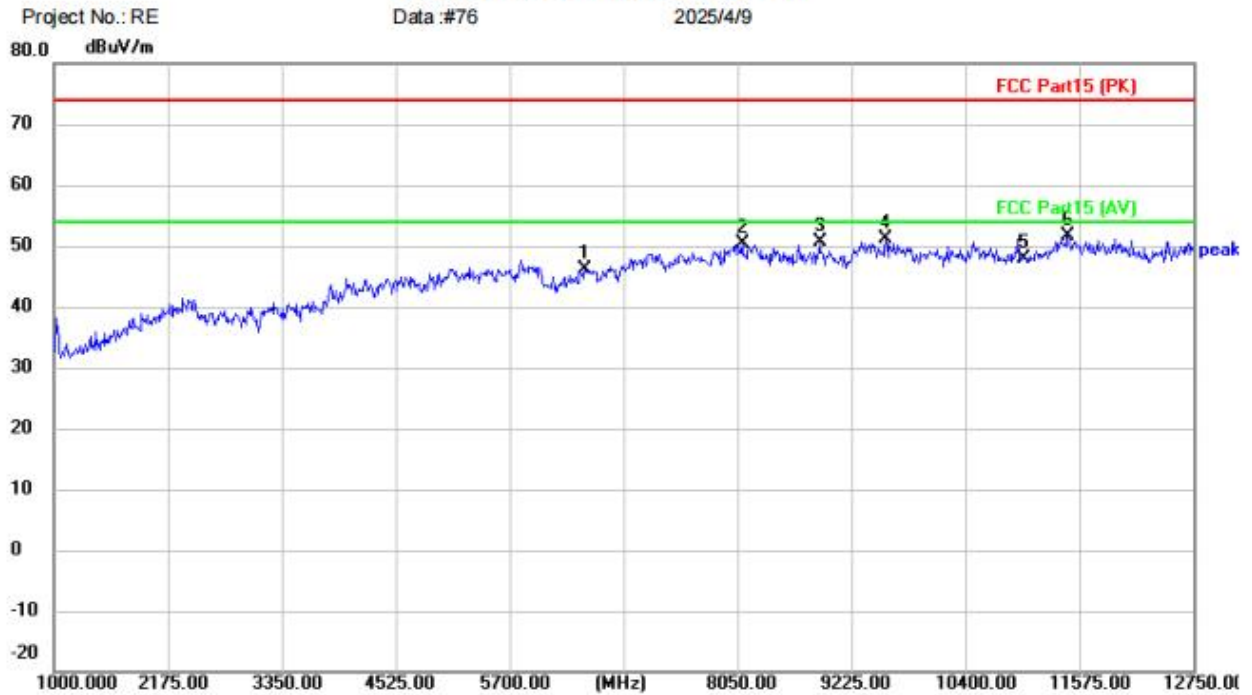
Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	6722.250	37.81	8.86	46.67	74.00	-27.33	peak	
2	8050.000	38.24	11.70	49.94	74.00	-24.06	peak	
3	8755.000	37.58	11.84	49.42	74.00	-24.58	peak	
4	9765.500	36.84	13.76	50.60	74.00	-23.40	peak	
5	11000.00	35.72	12.97	48.69	74.00	-25.31	peak	
6 *	11751.25	37.39	13.47	50.86	74.00	-23.14	peak	

Test Result: Pass

[Test mode:Band3 TX low channel]; [Polarity: Vertical]

Radiated Emission Measurement

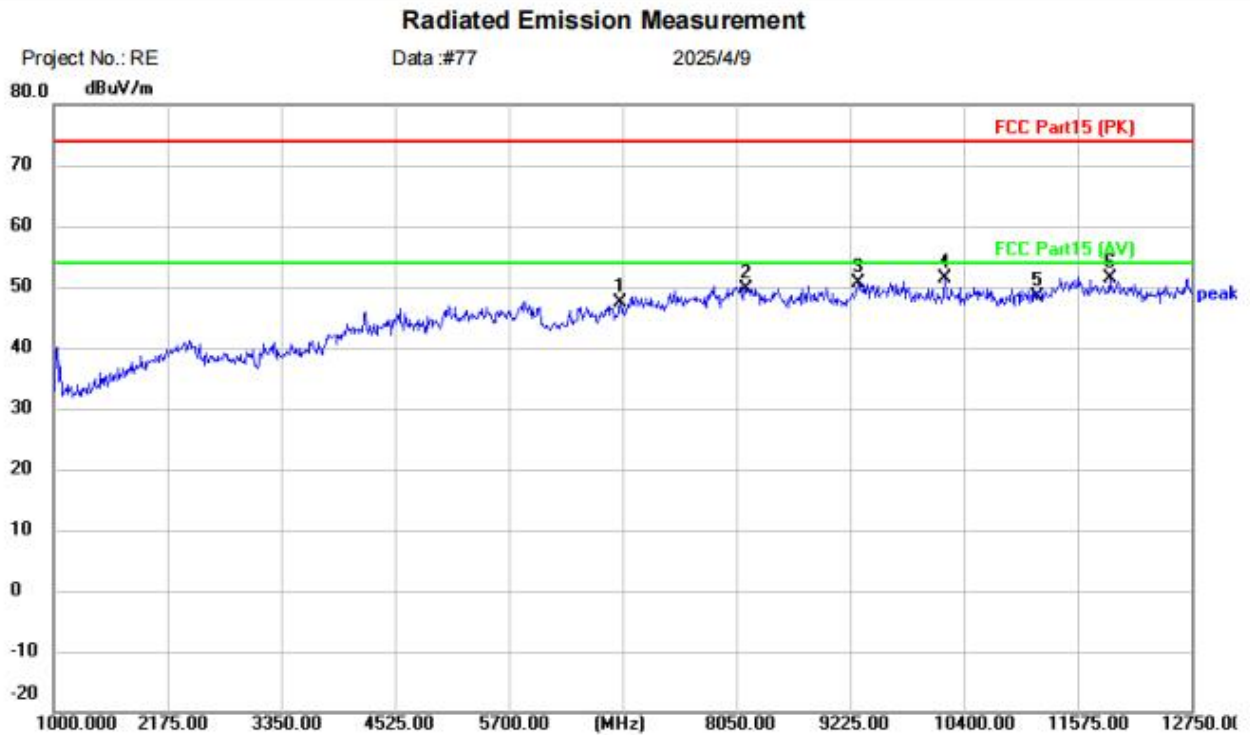


Site Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Wireless Display Audio
 M/N: iLX-T810
 Mode: 5G A TX 5500
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		6475.500	37.90	8.26	46.16	74.00	-27.84	peak	
2		8097.000	38.69	11.79	50.48	74.00	-23.52	peak	
3		8896.000	38.09	12.62	50.71	74.00	-23.29	peak	
4		9577.500	38.07	13.04	51.11	74.00	-22.89	peak	
5		11000.00	34.91	12.97	47.88	74.00	-26.12	peak	
6	*	11457.50	36.98	14.62	51.60	74.00	-22.40	peak	

Test Result: Pass

[Test mode:Band3 TX middle channel]; [Polarity: Horizontal]



Site: Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

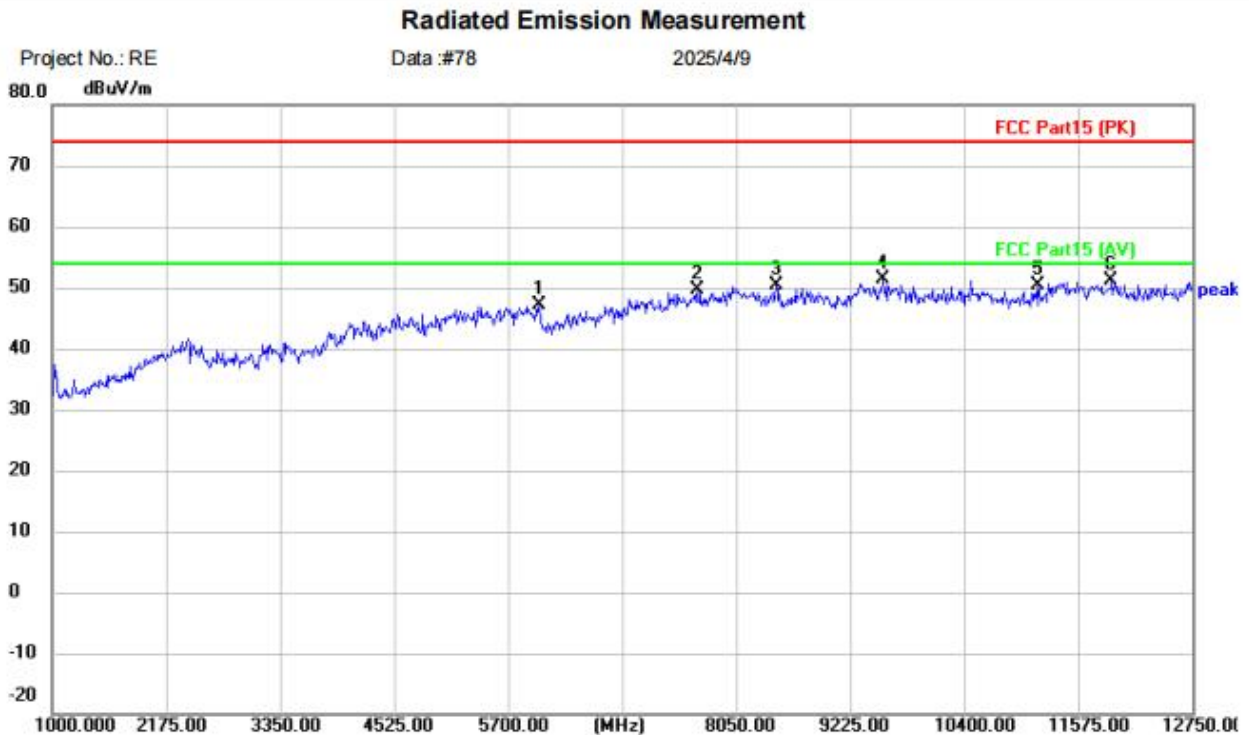
Mode: 5G A TX 5580

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		6851.500	38.32	9.11	47.43	74.00	-26.57	peak	
2		8155.750	38.24	11.49	49.73	74.00	-24.27	peak	
3		9307.250	37.44	13.14	50.58	74.00	-23.42	peak	
4	*	10200.25	38.23	13.22	51.45	74.00	-22.55	peak	
5		11160.00	35.22	13.27	48.49	74.00	-25.51	peak	
6		11904.00	37.78	13.60	51.38	74.00	-22.62	peak	

Test Result: Pass

[Test mode:Band3 TX middle channel]; [Polarity: Vertical]



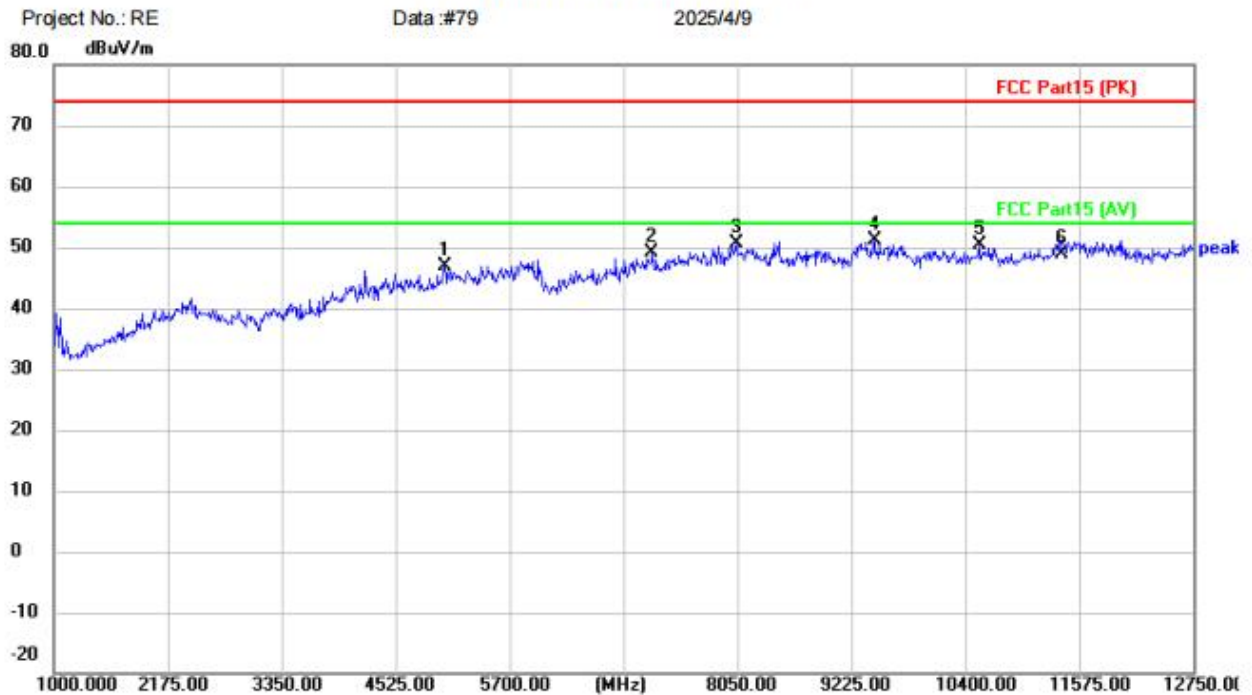
Site Polarization: **Vertical** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Wireless Display Audio
 M/N: ILX-T810
 Mode: 5G A TX 5580
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		6017.250	41.10	5.96	47.06	74.00	-26.94	peak	
2		7650.500	39.11	10.45	49.56	74.00	-24.44	peak	
3		8461.250	38.93	11.47	50.40	74.00	-23.60	peak	
4	*	9565.750	38.36	13.12	51.48	74.00	-22.52	peak	
5		11160.00	37.10	13.27	50.37	74.00	-23.63	peak	
6		11915.75	37.33	13.68	51.01	74.00	-22.99	peak	

Test Result: Pass

[Test mode:Band3 TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

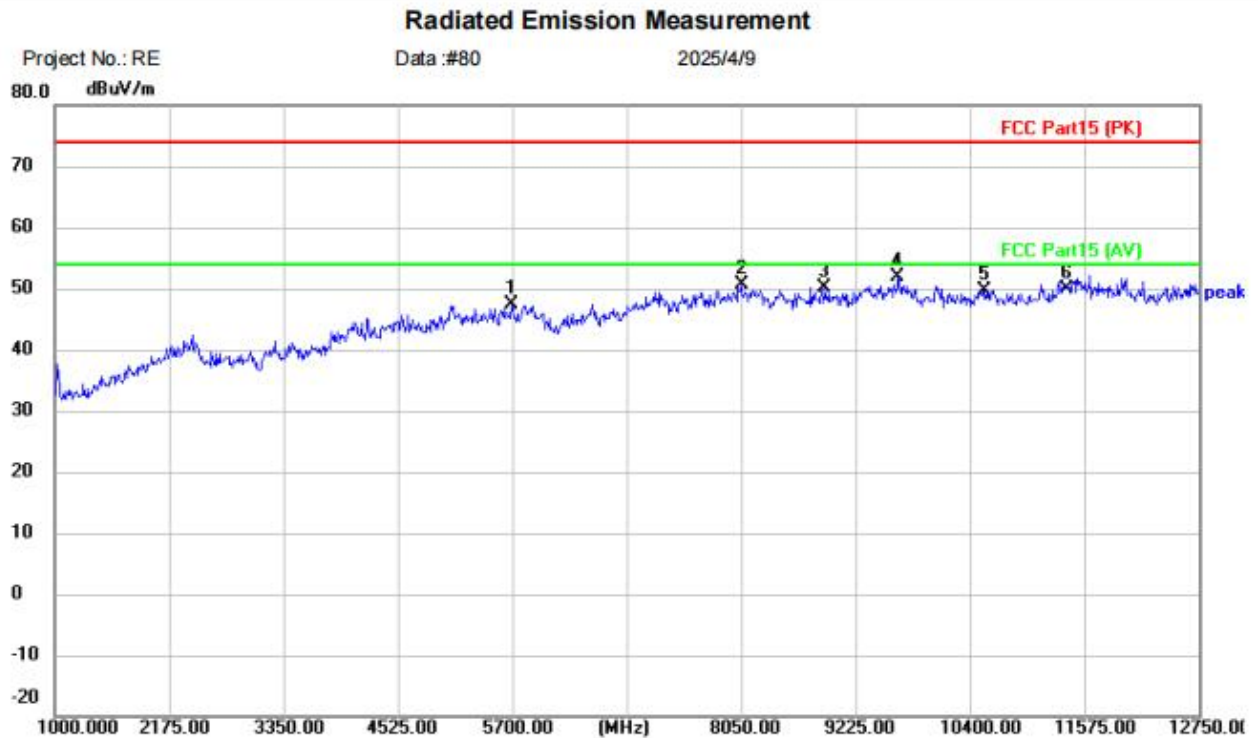
Mode: 5G A TX 5700

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5030.250	38.62	8.22	46.84	74.00	-27.16	peak	
2	7168.750	38.60	10.57	49.17	74.00	-24.83	peak	
3	8038.250	38.96	11.68	50.64	74.00	-23.36	peak	
4 *	9460.000	38.07	12.97	51.04	74.00	-22.96	peak	
5	10541.00	36.57	13.69	50.26	74.00	-23.74	peak	
6	11400.00	34.64	14.27	48.91	74.00	-25.09	peak	

Test Result: Pass

[Test mode:Band3 TX High channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

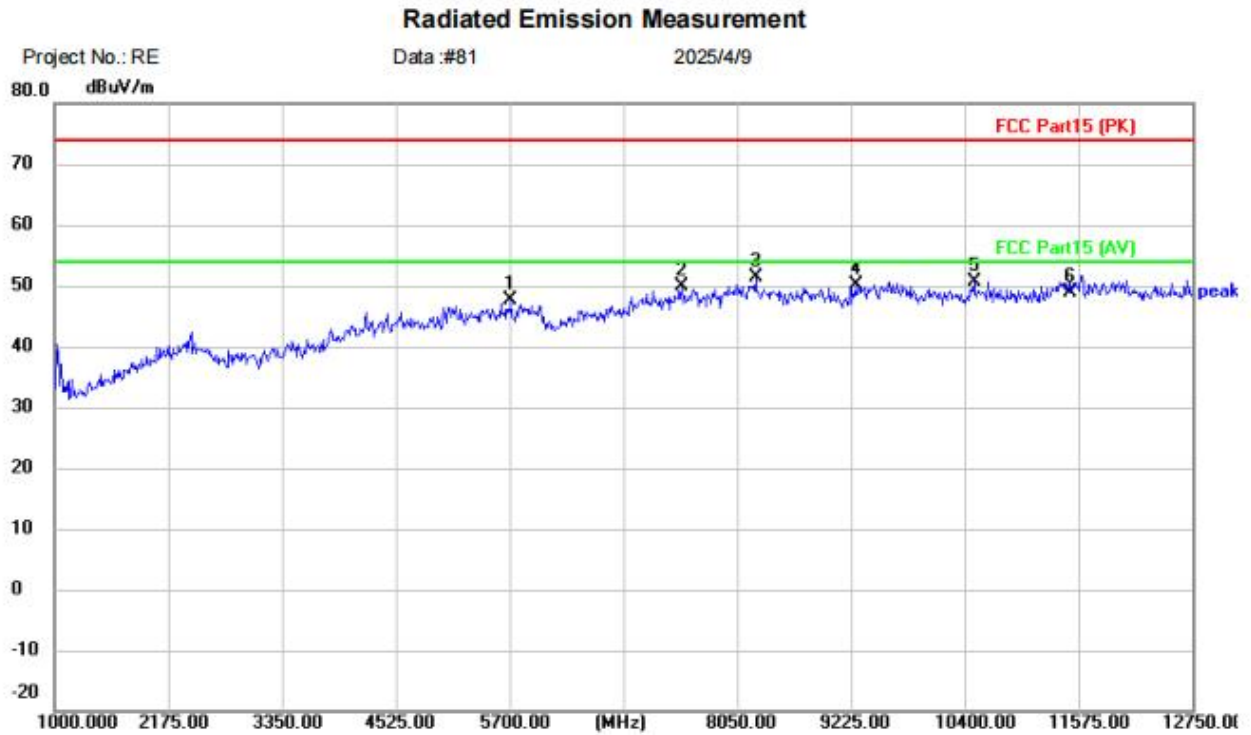
Mode: 5G A TX 5700

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	5688.250	38.66	8.66	47.32	74.00	-26.68	peak	
2	8050.000	38.84	11.70	50.54	74.00	-23.46	peak	
3	8907.750	37.63	12.57	50.20	74.00	-23.80	peak	
4 *	9659.750	38.33	13.52	51.85	74.00	-22.15	peak	
5	10552.75	36.07	13.67	49.74	74.00	-24.26	peak	
6	11400.00	35.73	14.27	50.00	74.00	-24.00	peak	

Test Result: Pass

[Test mode:Band4 TX low channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

Mode: 5G A TX 5745

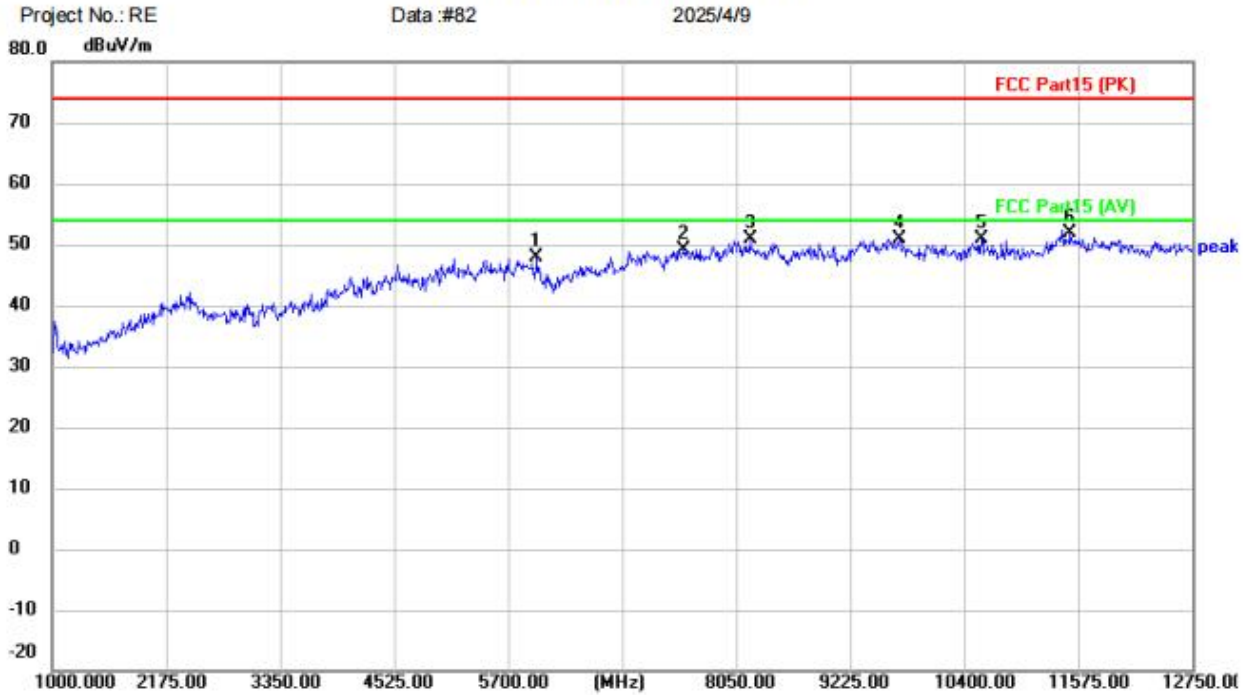
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5711.750	38.89	8.74	47.63	74.00	-26.37	peak	
2		7474.250	39.00	10.94	49.94	74.00	-24.06	peak	
3	*	8238.000	40.04	11.26	51.30	74.00	-22.70	peak	
4		9272.000	37.15	13.05	50.20	74.00	-23.80	peak	
5		10494.00	36.85	13.73	50.58	74.00	-23.42	peak	
6		11490.00	34.17	14.81	48.98	74.00	-25.02	peak	

Test Result: Pass

[Test mode:Band4 TX low channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

Mode: 5G A TX 5745

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5993.750	38.83	8.96	47.79	74.00	-26.21	peak	
2	7509.500	38.51	10.65	49.16	74.00	-24.84	peak	
3	8191.000	39.29	11.50	50.79	74.00	-23.21	peak	
4	9730.250	37.25	13.70	50.95	74.00	-23.05	peak	
5	10576.25	37.37	13.63	51.00	74.00	-23.00	peak	
6 *	11490.00	37.14	14.81	51.95	74.00	-22.05	peak	

Test Result: Pass

[Test mode:Band4 TX middle channel]; [Polarity: Horizontal]

Radiated Emission Measurement

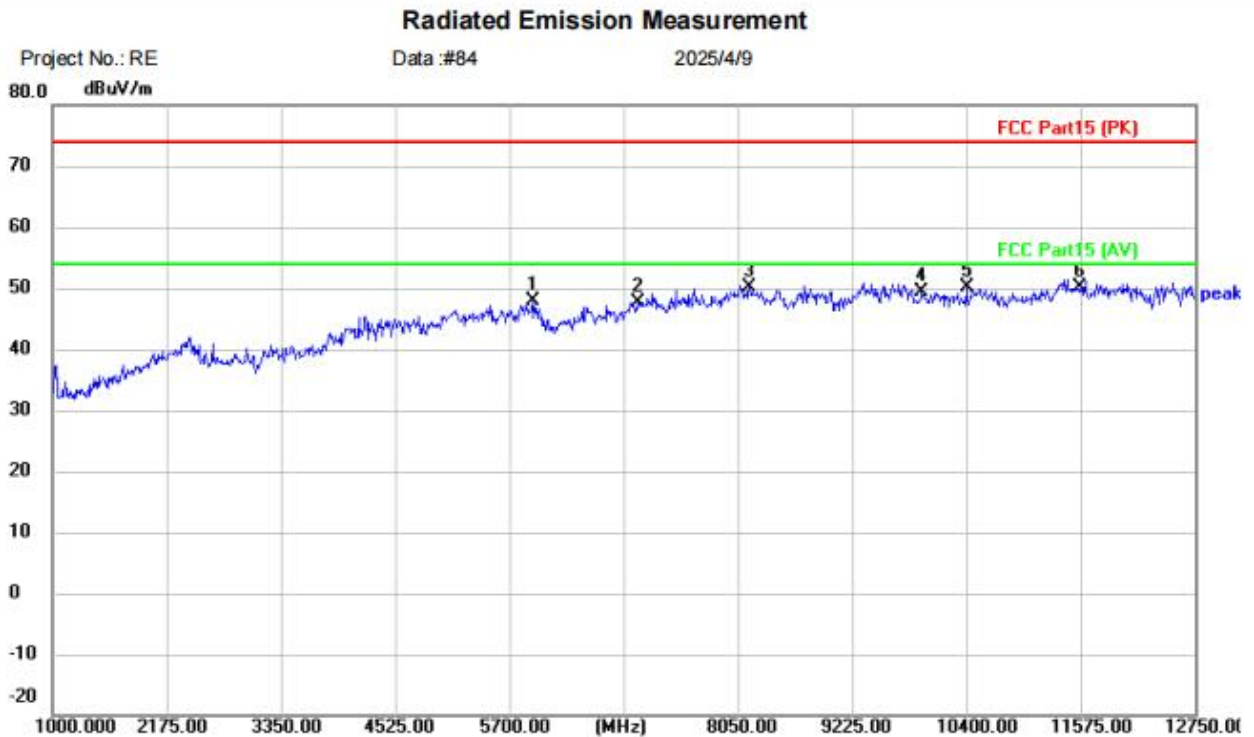


Site Polarization: **Horizontal** Temperature: (C)
 Limit: FCC Part15 (PK) Power: Humidity: %RH
 EUT: Wireless Display Audio
 M/N: iLX-T810
 Mode: 5G A TX 5785
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5089.000	39.05	8.36	47.41	74.00	-26.59	peak	
2	6957.250	38.33	9.74	48.07	74.00	-25.93	peak	
3	8073.500	38.58	11.75	50.33	74.00	-23.67	peak	
4 *	8931.250	38.16	12.19	50.35	74.00	-23.65	peak	
5	10517.50	36.41	13.72	50.13	74.00	-23.87	peak	
6	11570.00	35.49	14.80	50.29	74.00	-23.71	peak	

Test Result: Pass

[Test mode:Band4 TX middle channel]; [Polarity: Vertical]

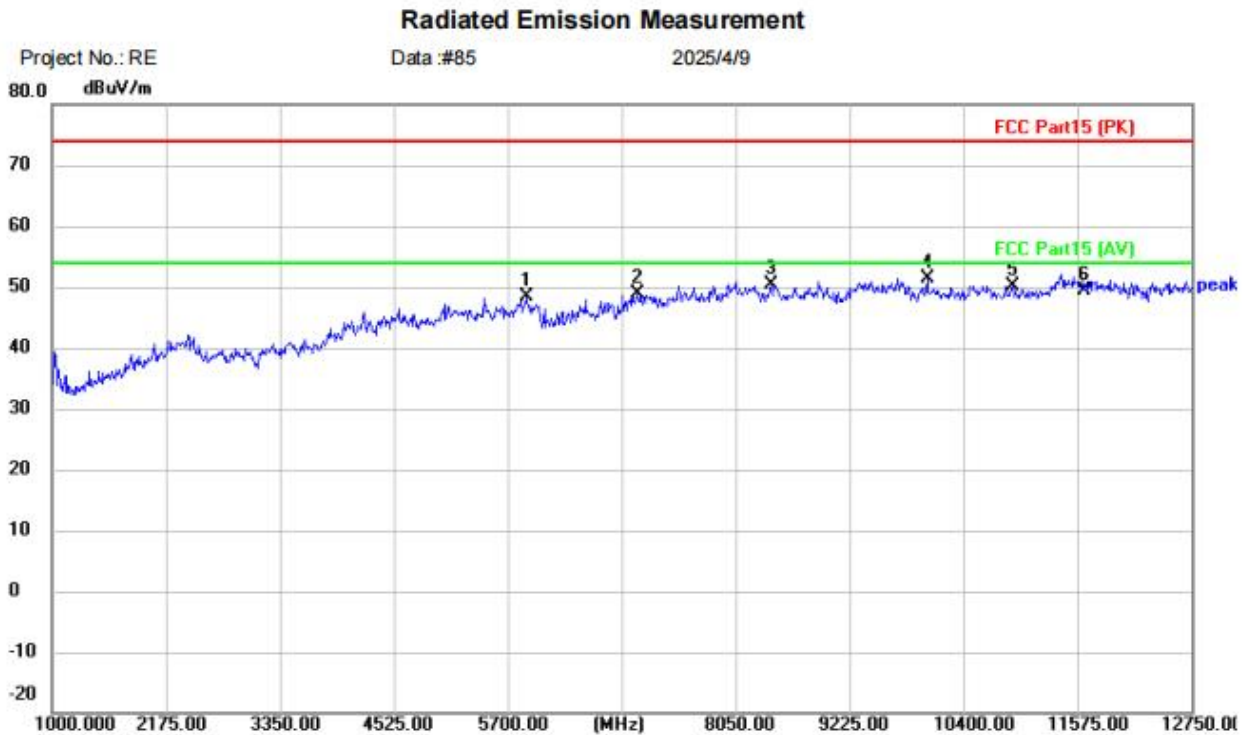


Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Wireless Display Audio		
M/N: iLX-T810		
Mode: 5G A TX 5785		
Note:		

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5935.000	38.85	9.06	47.91	74.00	-26.09	peak	
2	7016.000	37.82	9.72	47.54	74.00	-26.46	peak	
3	8167.500	38.62	11.50	50.12	74.00	-23.88	peak	
4	9941.750	36.26	13.21	49.47	74.00	-24.53	peak	
5	10400.00	36.62	13.51	50.13	74.00	-23.87	peak	
6 *	11570.00	35.38	14.80	50.18	74.00	-23.82	peak	

Test Result: Pass

[Test mode:Band4 TX High channel]; [Polarity: Horizontal]

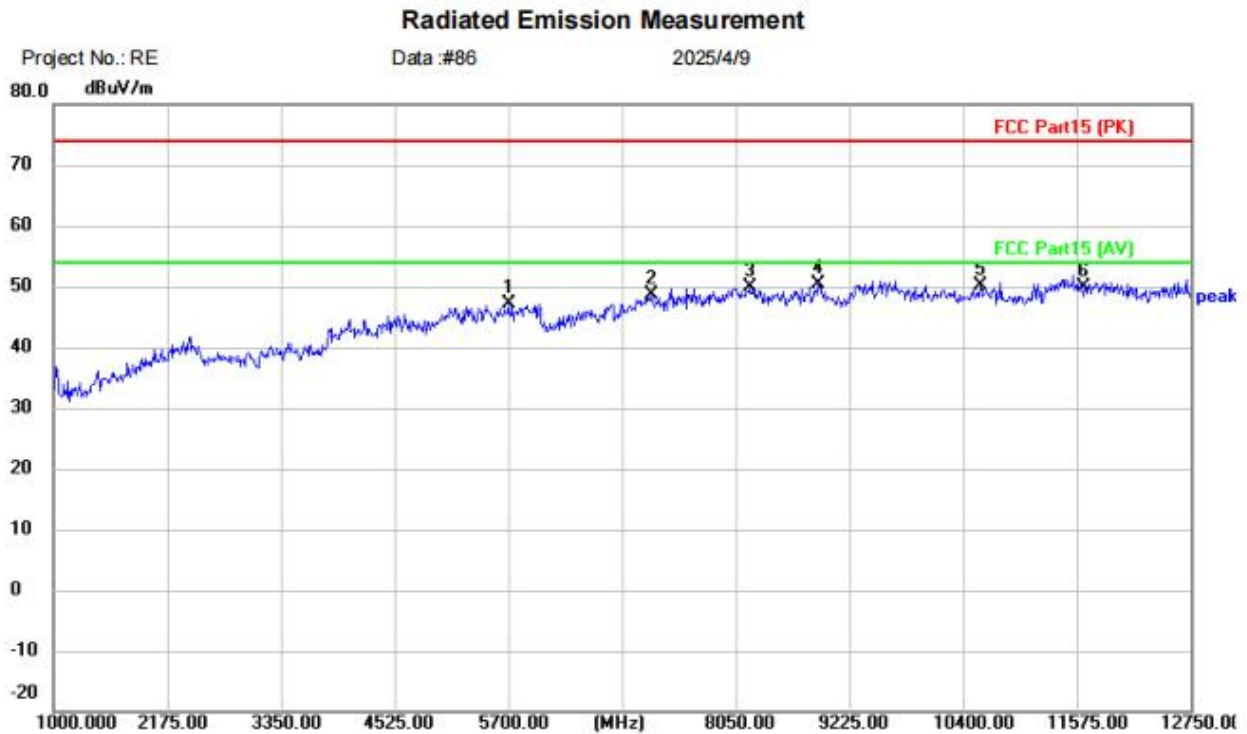


Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Wireless Display Audio		
M/N: iLX-T810		
Mode: 5G A TX 5825		
Note:		

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5888.000	39.45	9.05	48.50	74.00	-25.50	peak	
2	7039.500	38.80	10.08	48.88	74.00	-25.12	peak	
3	8414.250	39.16	11.20	50.36	74.00	-23.64	peak	
4 *	10024.00	38.21	13.24	51.45	74.00	-22.55	peak	
5	10905.25	36.94	13.22	50.16	74.00	-23.84	peak	
6	11650.00	35.29	14.12	49.41	74.00	-24.59	peak	

Test Result: Pass

[Test mode:Band4 TX High channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Wireless Display Audio

M/N: iLX-T810

Mode: 5G A TX 5825

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5700.000	38.29	8.95	47.24	74.00	-26.76	peak	
2		7180.500	38.11	10.49	48.60	74.00	-25.40	peak	
3		8191.000	38.26	11.50	49.76	74.00	-24.24	peak	
4	*	8896.000	37.86	12.62	50.48	74.00	-23.52	peak	
5		10576.25	36.53	13.63	50.16	74.00	-23.84	peak	
6		11650.00	35.70	14.12	49.82	74.00	-24.18	peak	

Test Result: Pass

6.13 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II G
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

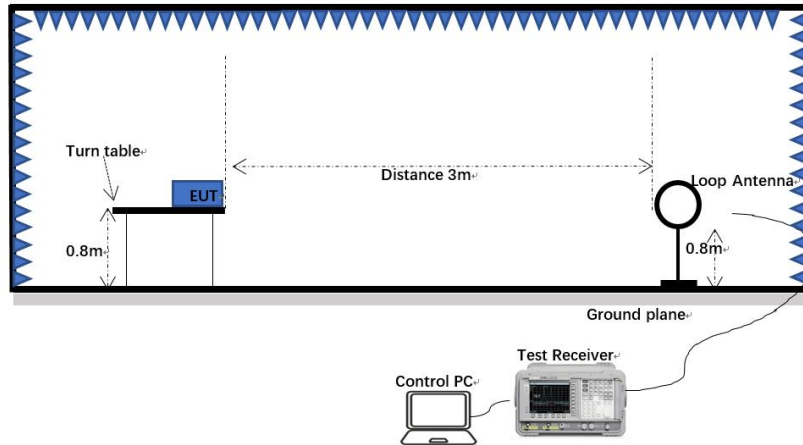
6.13.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

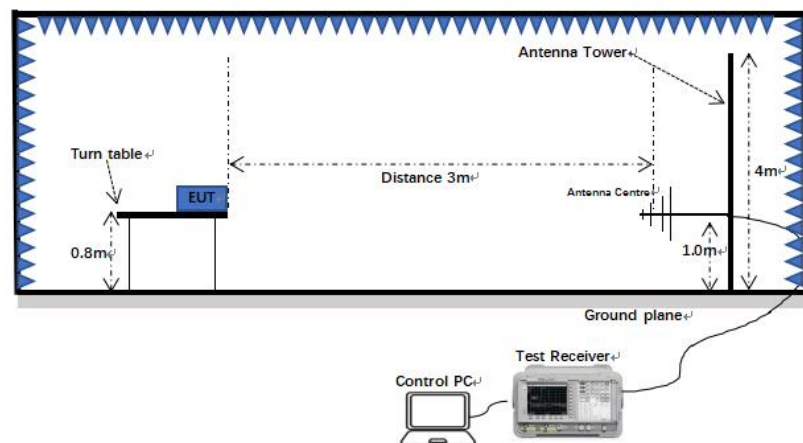
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.13.2 Test setup

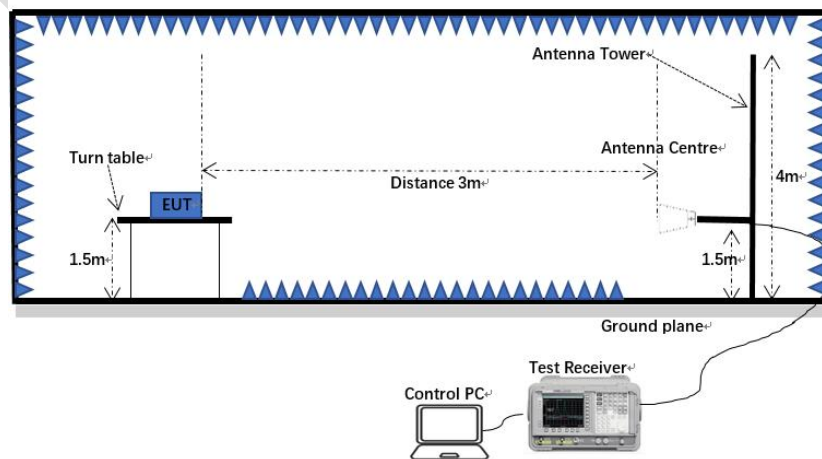
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.13.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

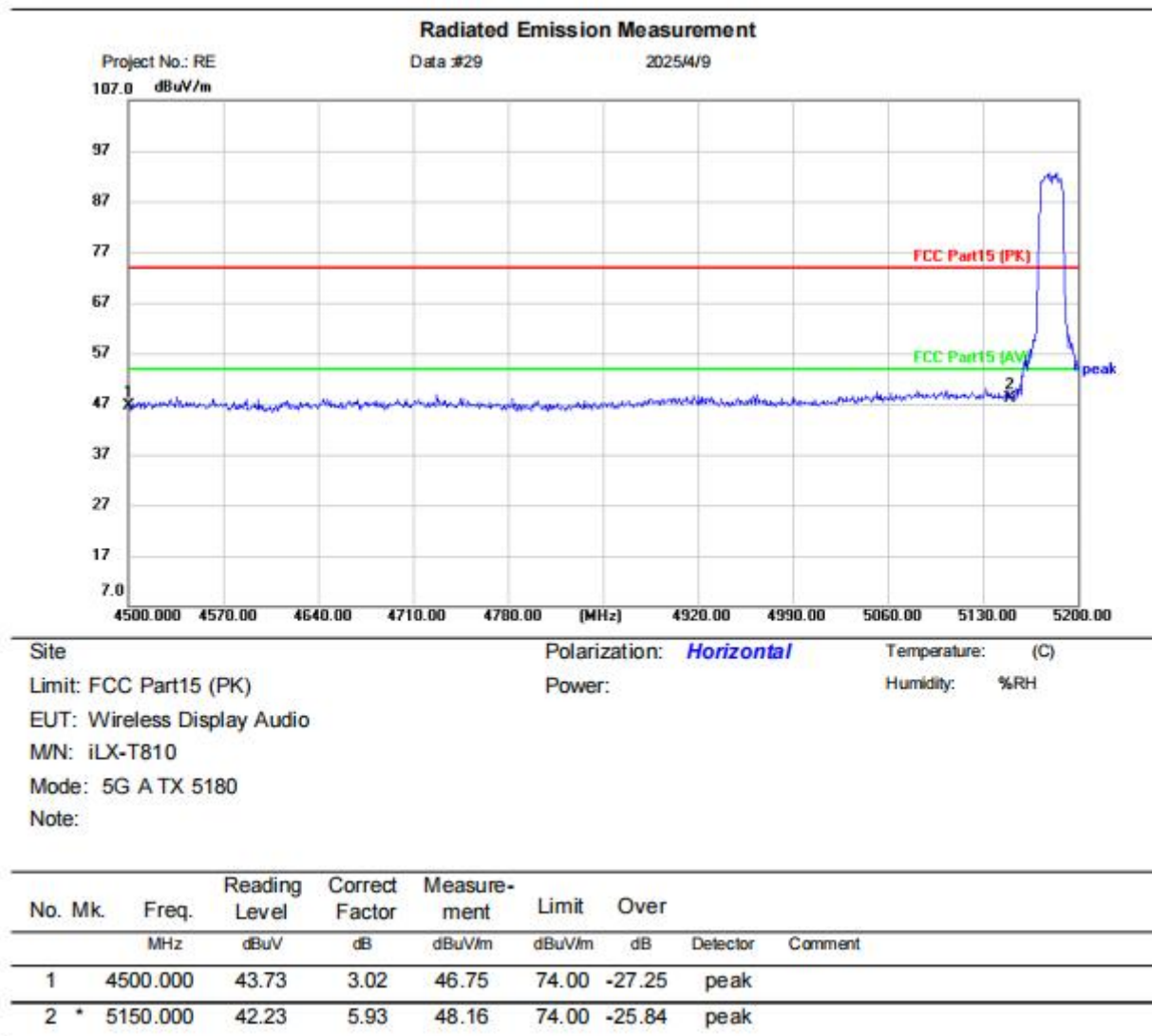
Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

6.13.4 Test data

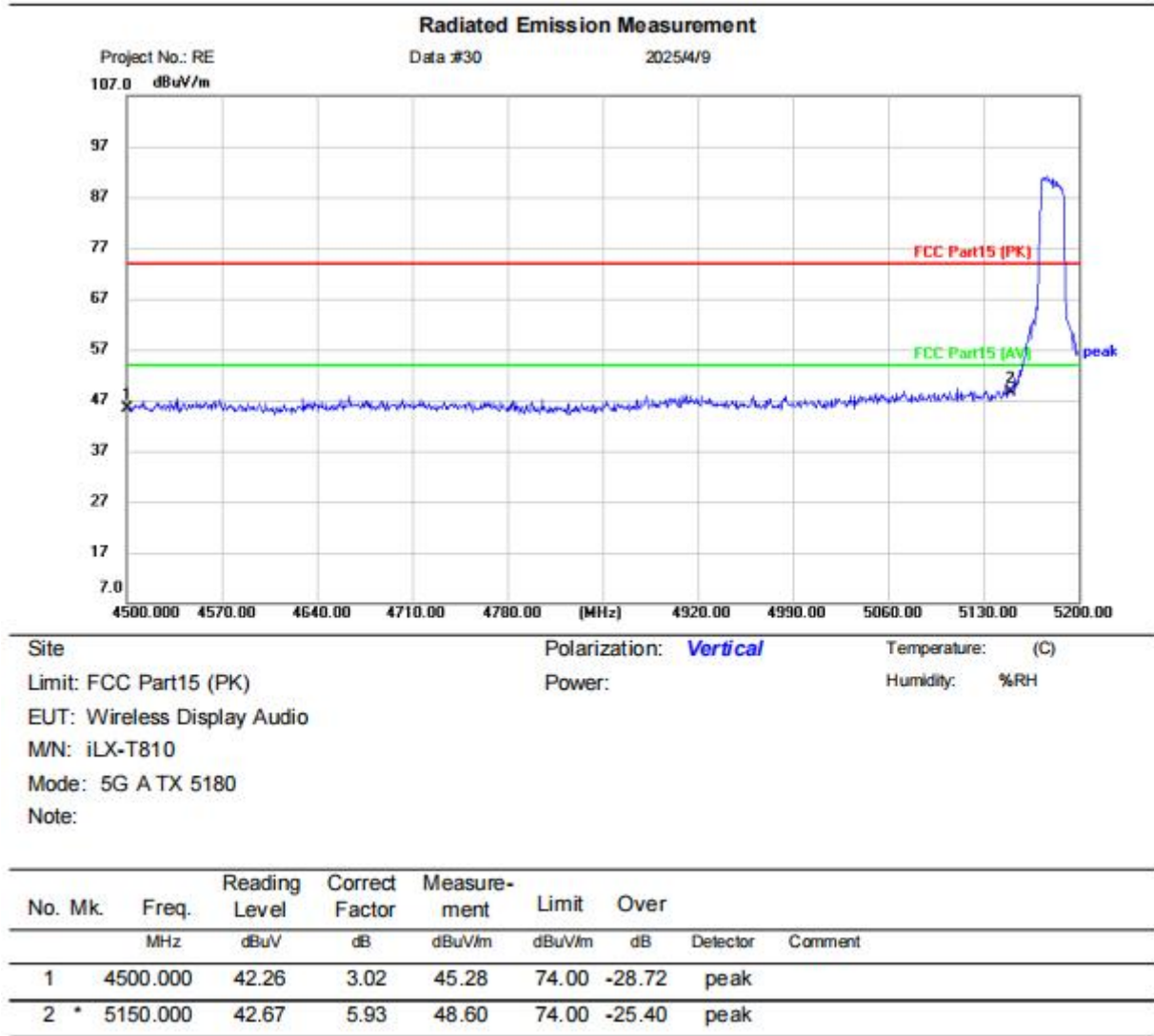
Remark: During the test, pre-scan the 802.11a/n/ac/mode, and found the 802.11a mode which it is worse case.

[Test mode:Band1 TX low channel]; [Polarity: Horizontal]



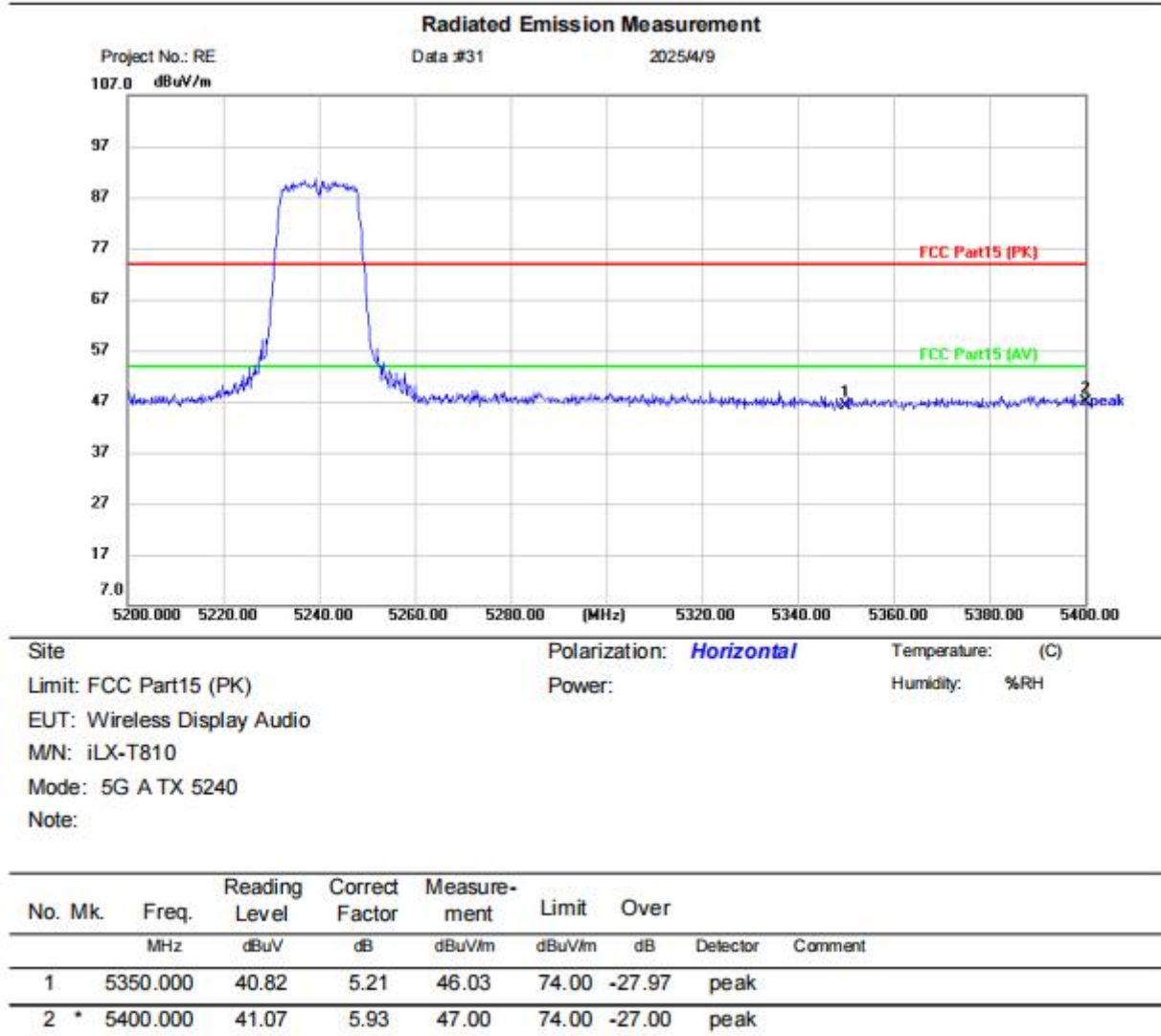
Test Result: Pass

[Test mode:Band1 TX low channel]; [Polarity: Vertical]



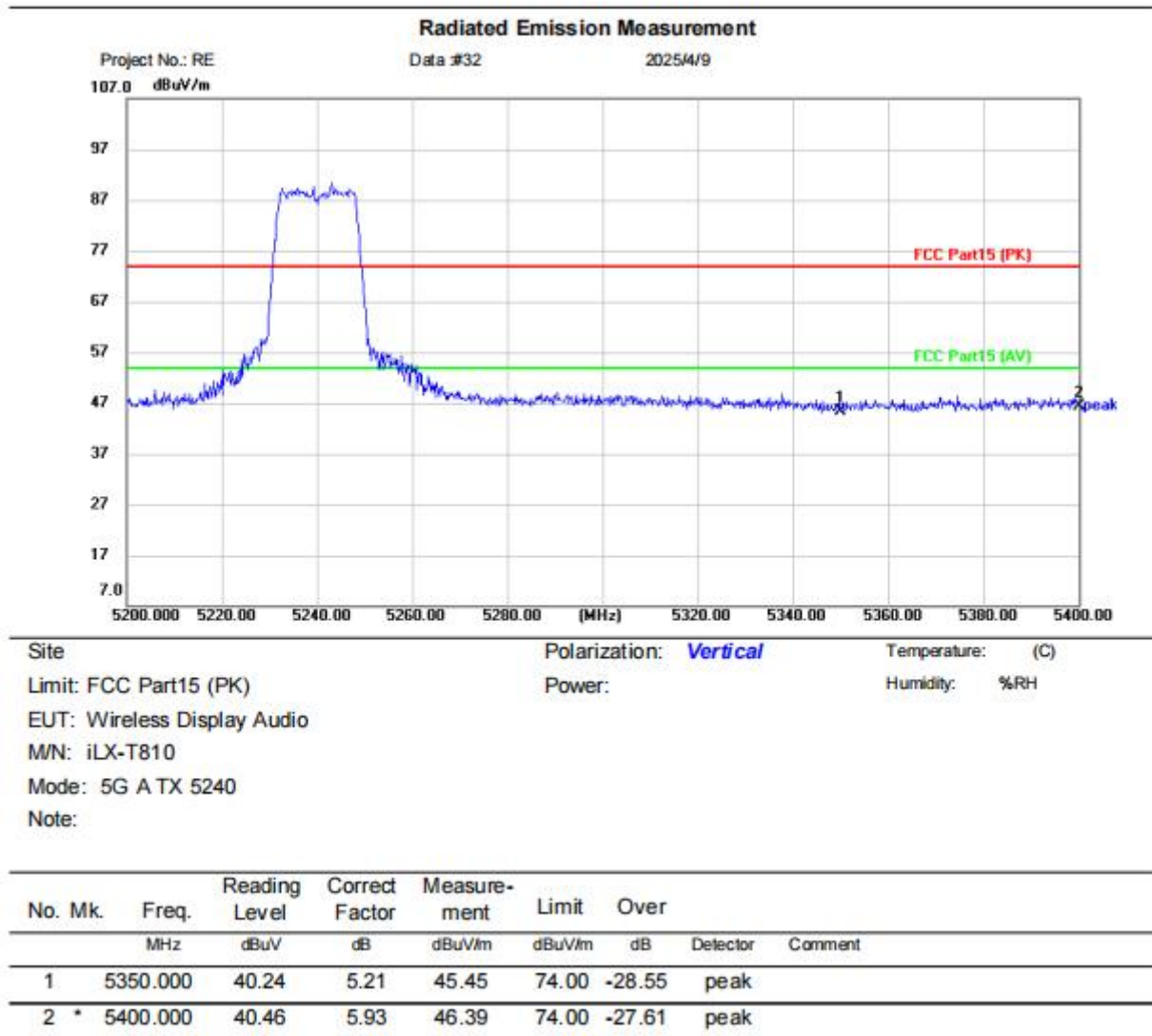
Test Result: Pass

[Test mode:Band1 TX High channel]; [Polarity: Horizontal]



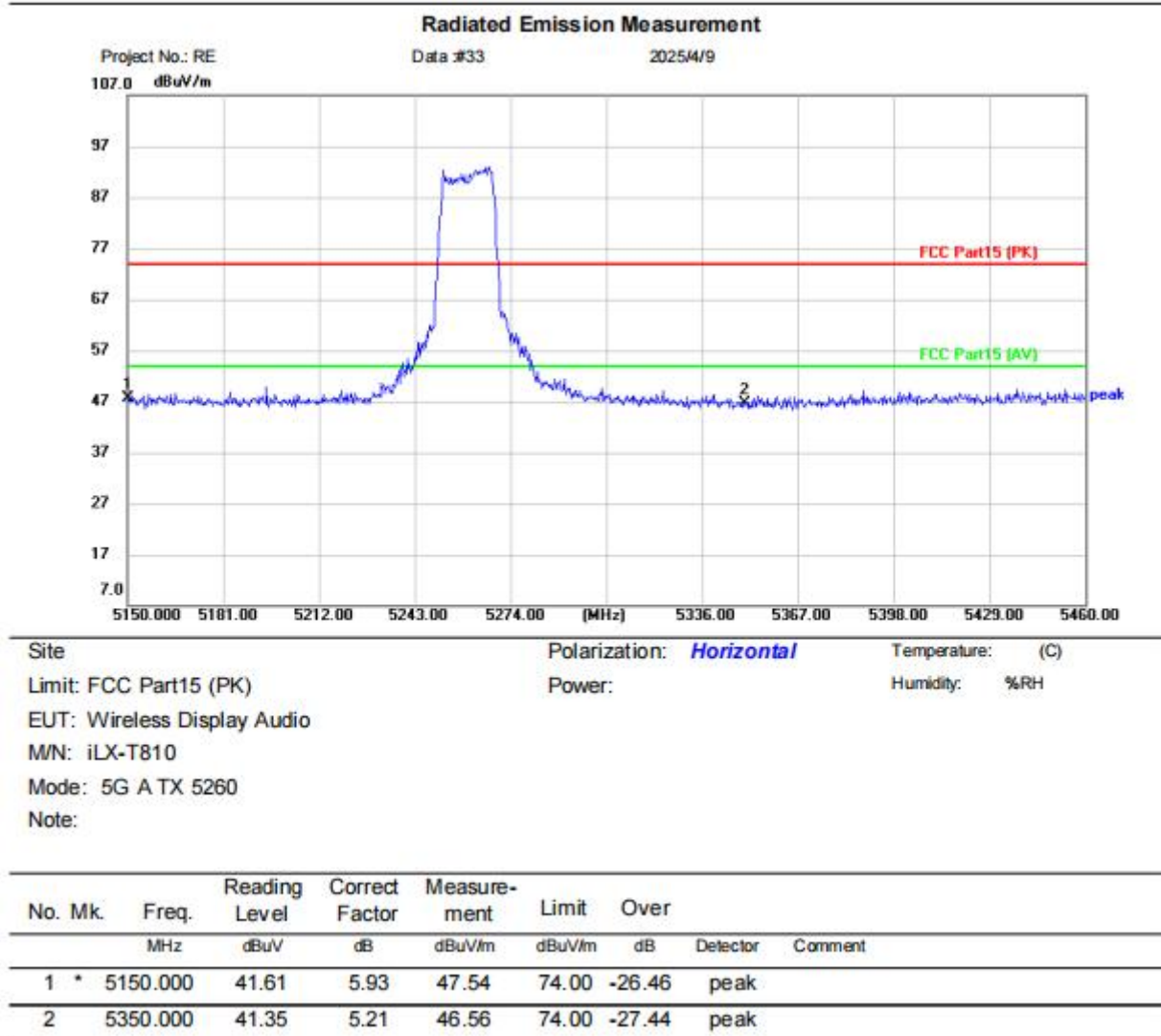
Test Result: Pass

[Test mode:Band1 TX High channel]; [Polarity: Vertical]



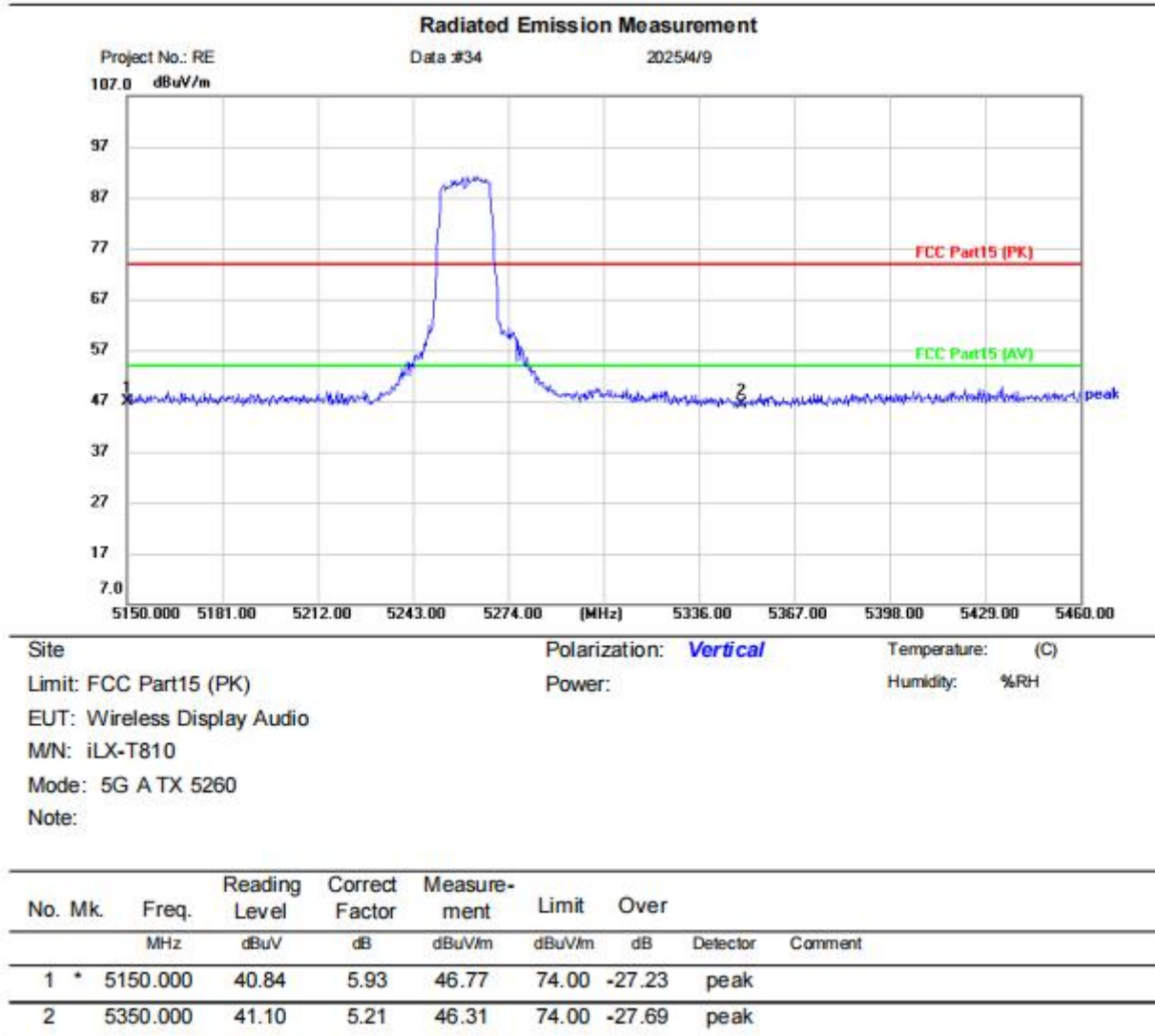
Test Result: Pass

[Test mode:Band2 TX low channel]; [Polarity: Horizontal]



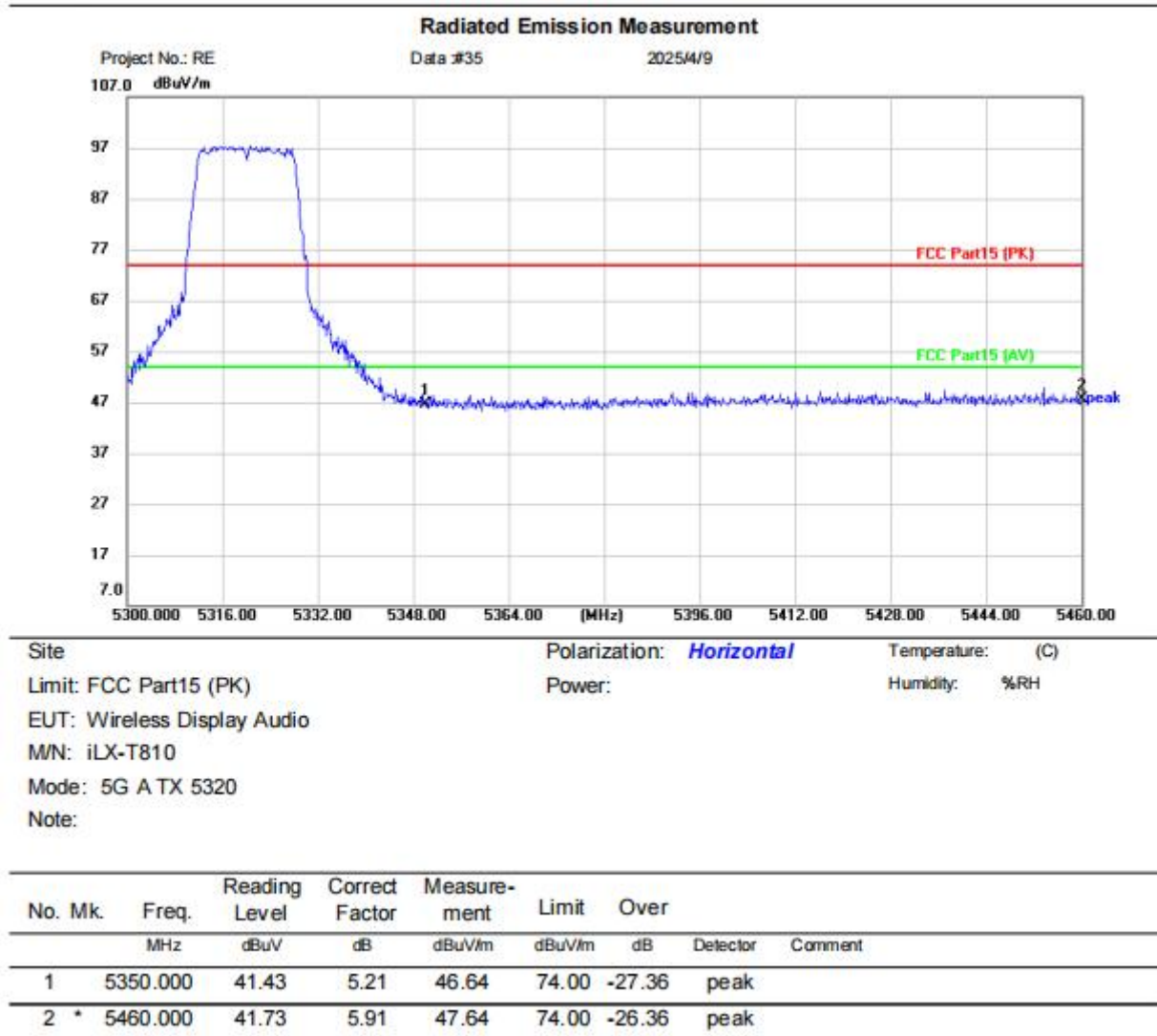
Test Result: Pass

[Test mode:Band2 TX low channel]; [Polarity: Vertical]



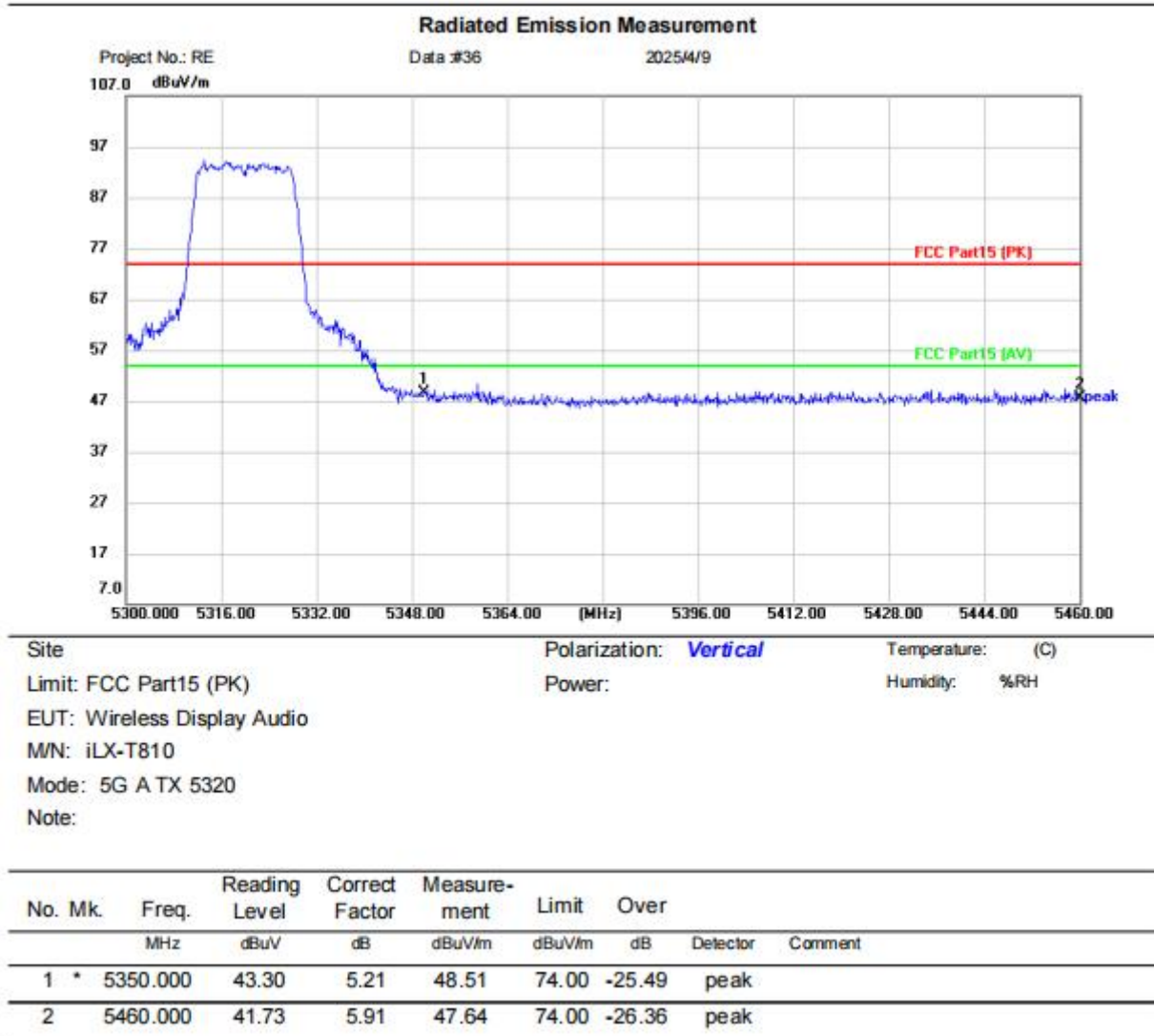
Test Result: Pass

[Test mode:Band2 TX High channel]; [Polarity: Horizontal]



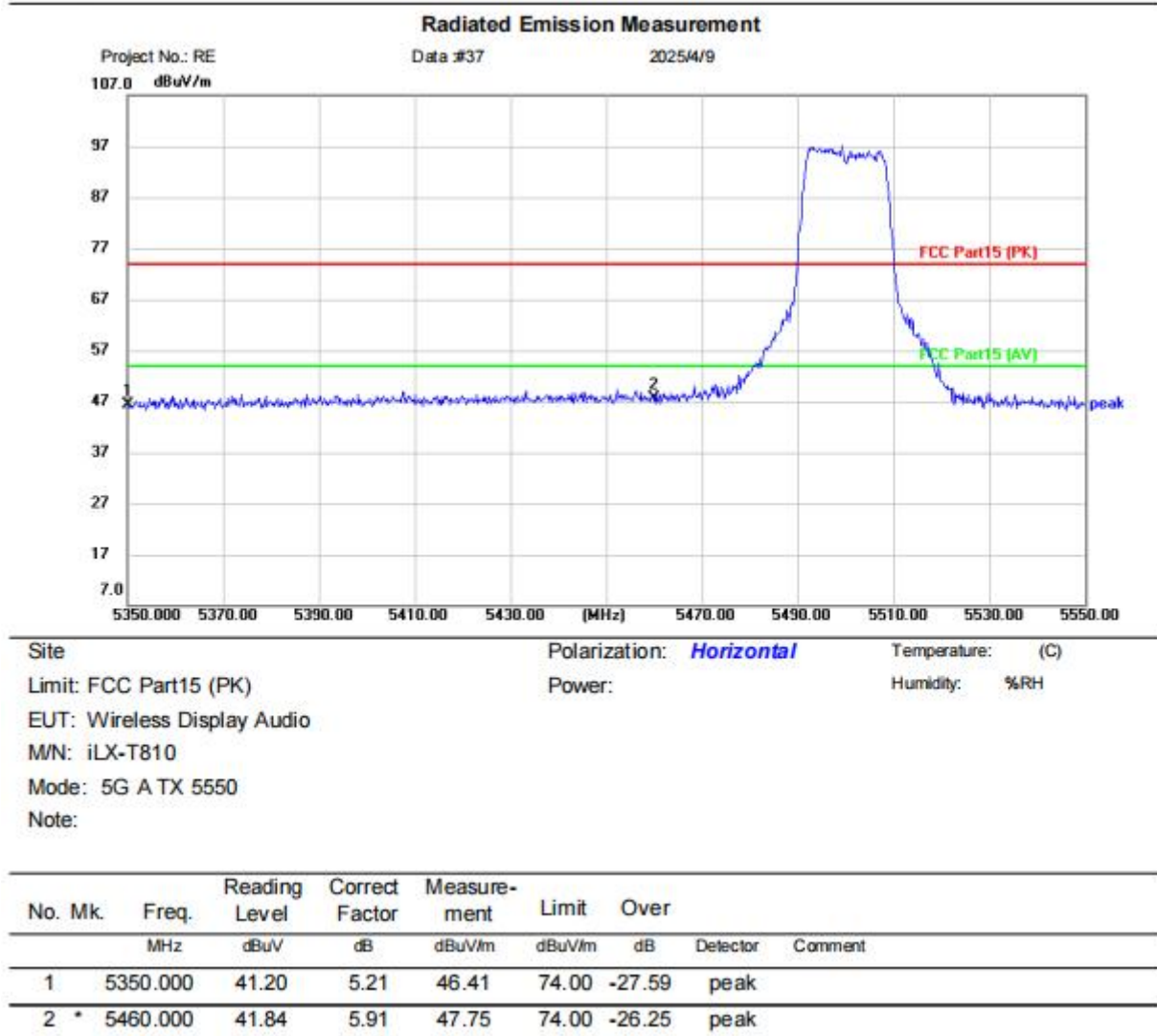
Test Result: Pass

[Test mode:Band2 TX High channel]; [Polarity: Vertical]



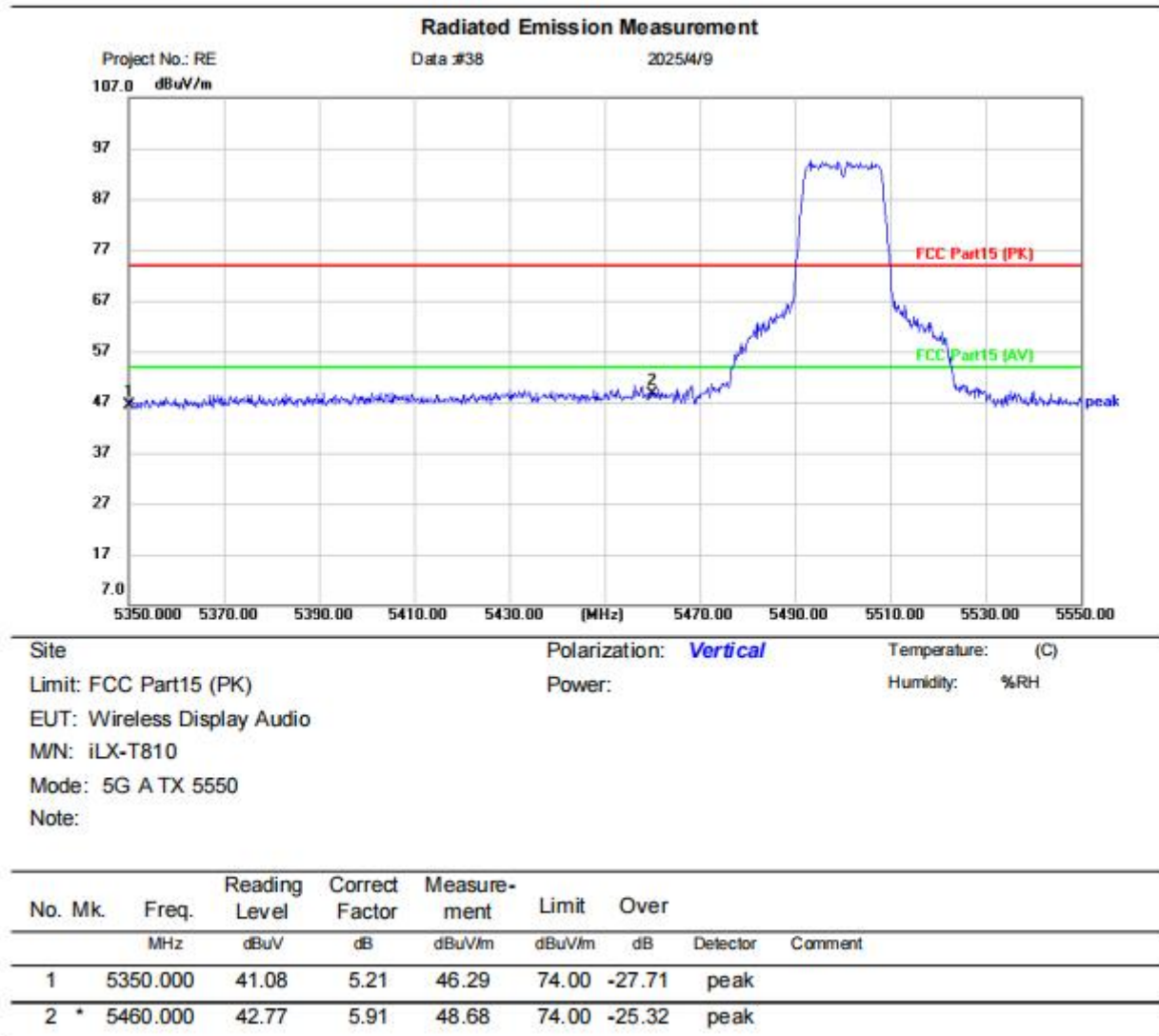
Test Result: Pass

[Test mode:Band3 TX low channel]; [Polarity: Horizontal]



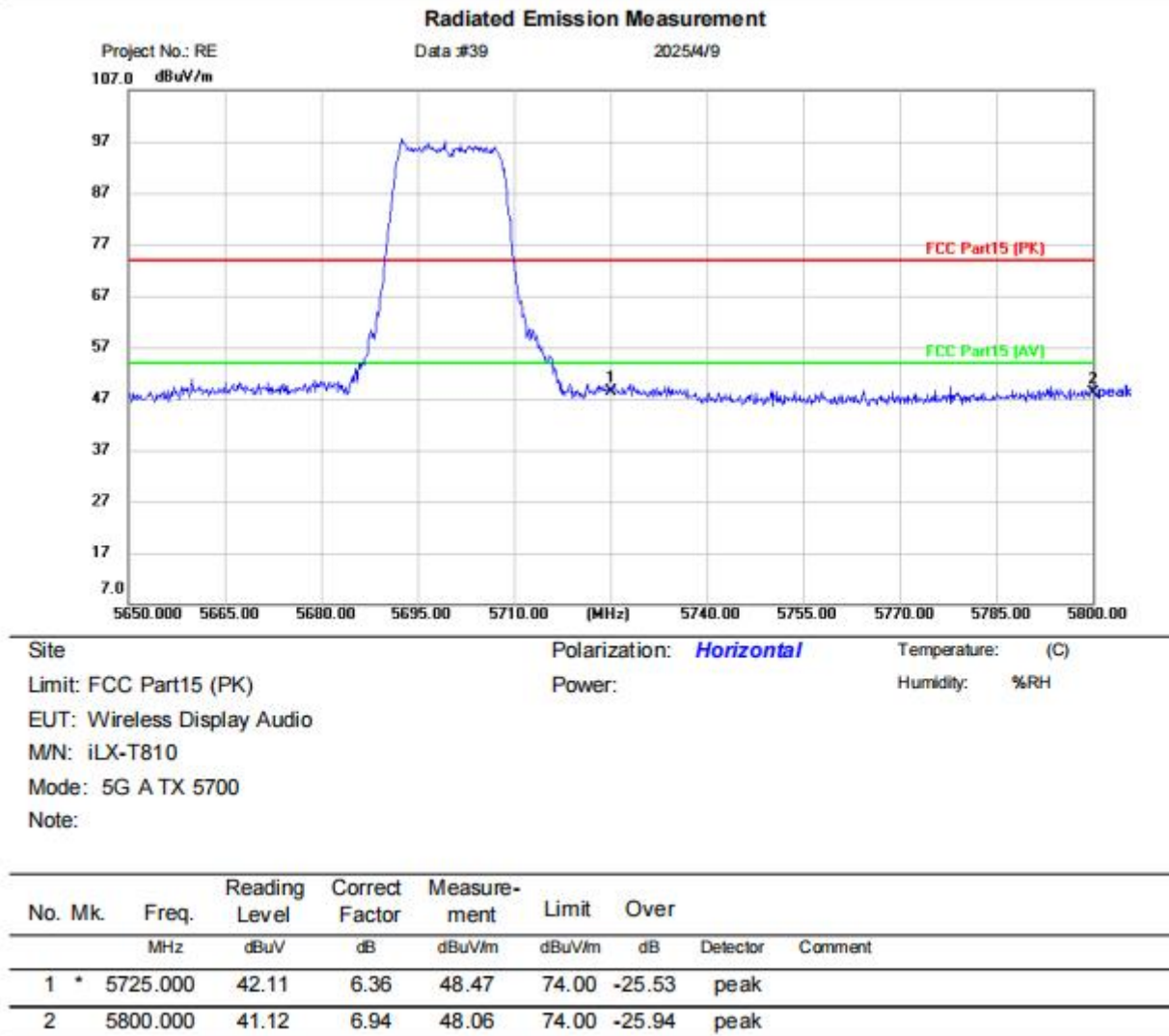
Test Result: Pass

[Test mode:Band3 TX low channel]; [Polarity: Vertical]



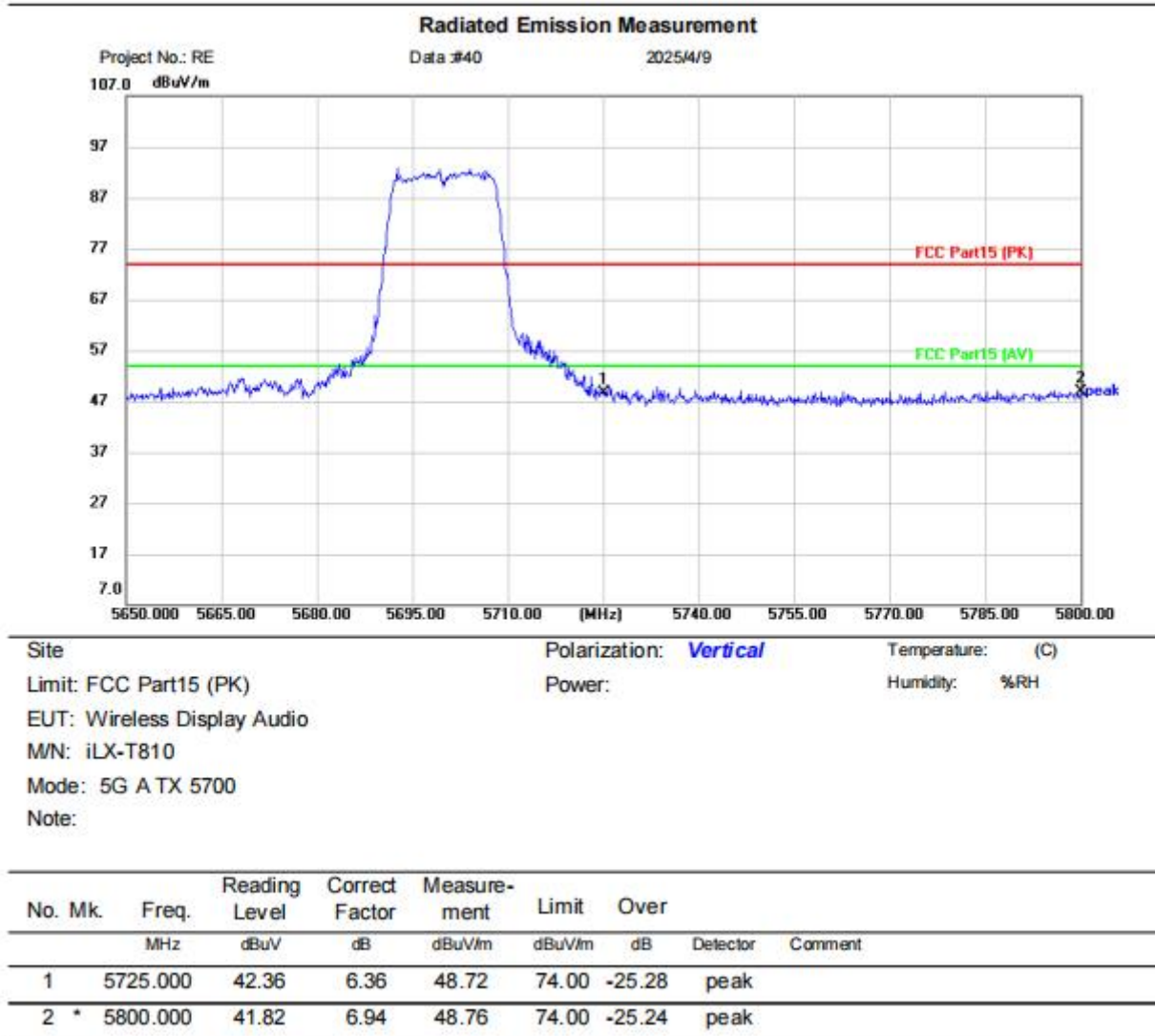
Test Result: Pass

[Test mode:Band3 TX High channel]; [Polarity: Horizontal]



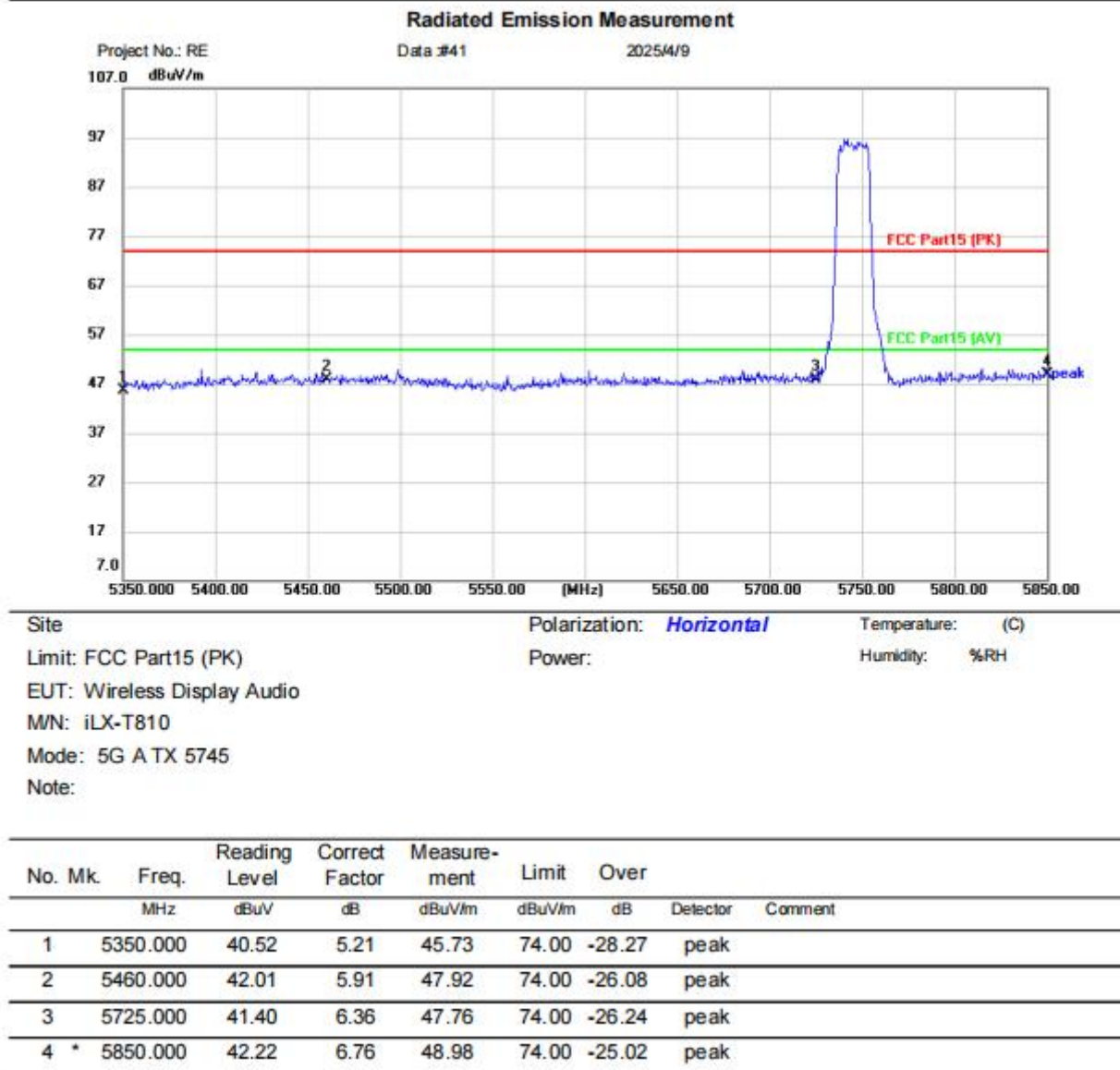
Test Result: Pass

[Test mode:Band3 TX High channel]; [Polarity: Vertical]



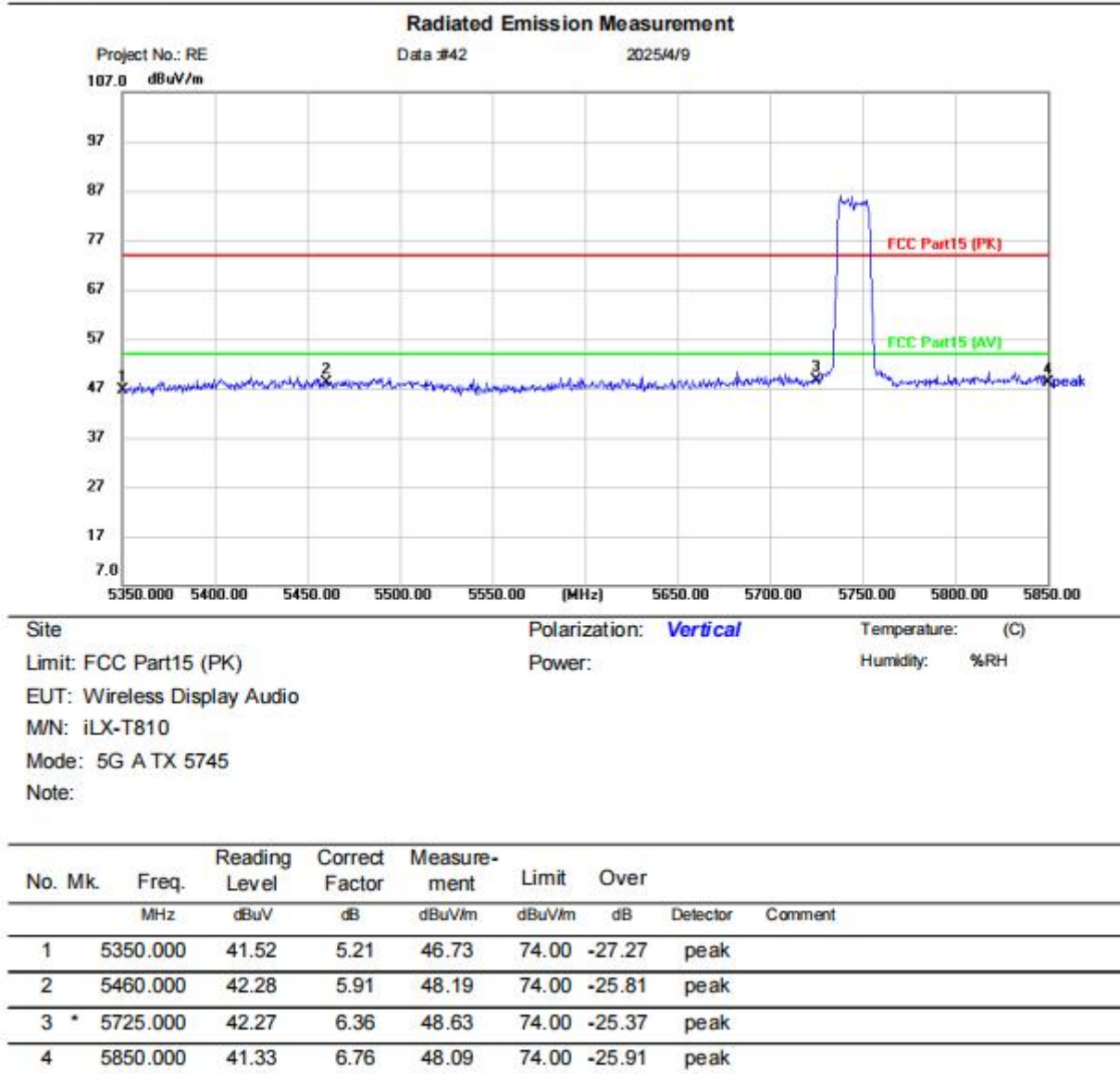
Test Result: Pass

[Test mode:Band4 TX low channel]; [Polarity: Horizontal]



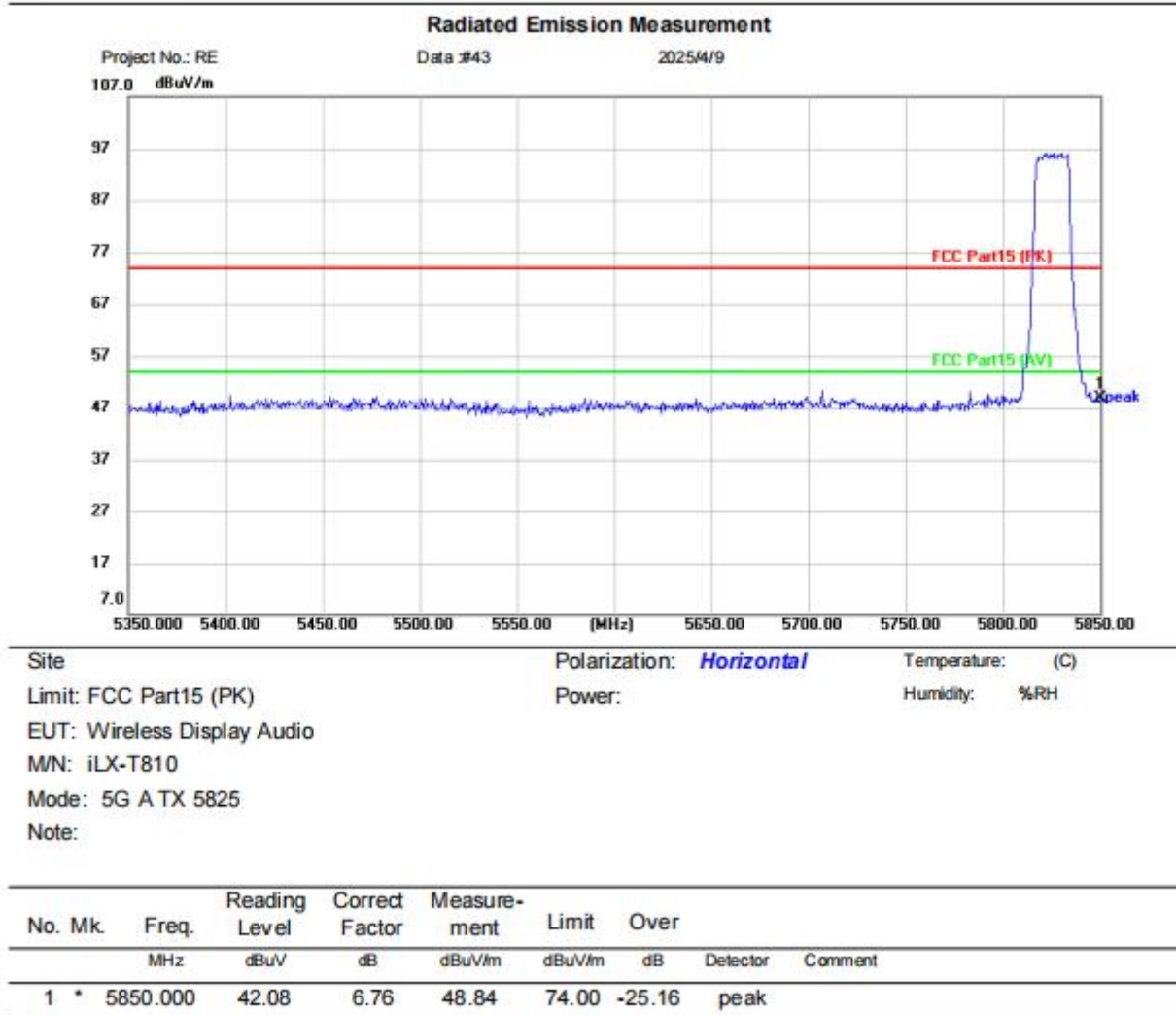
Test Result: Pass

[Test mode:Band4 TX low channel]; [Polarity: Vertical]



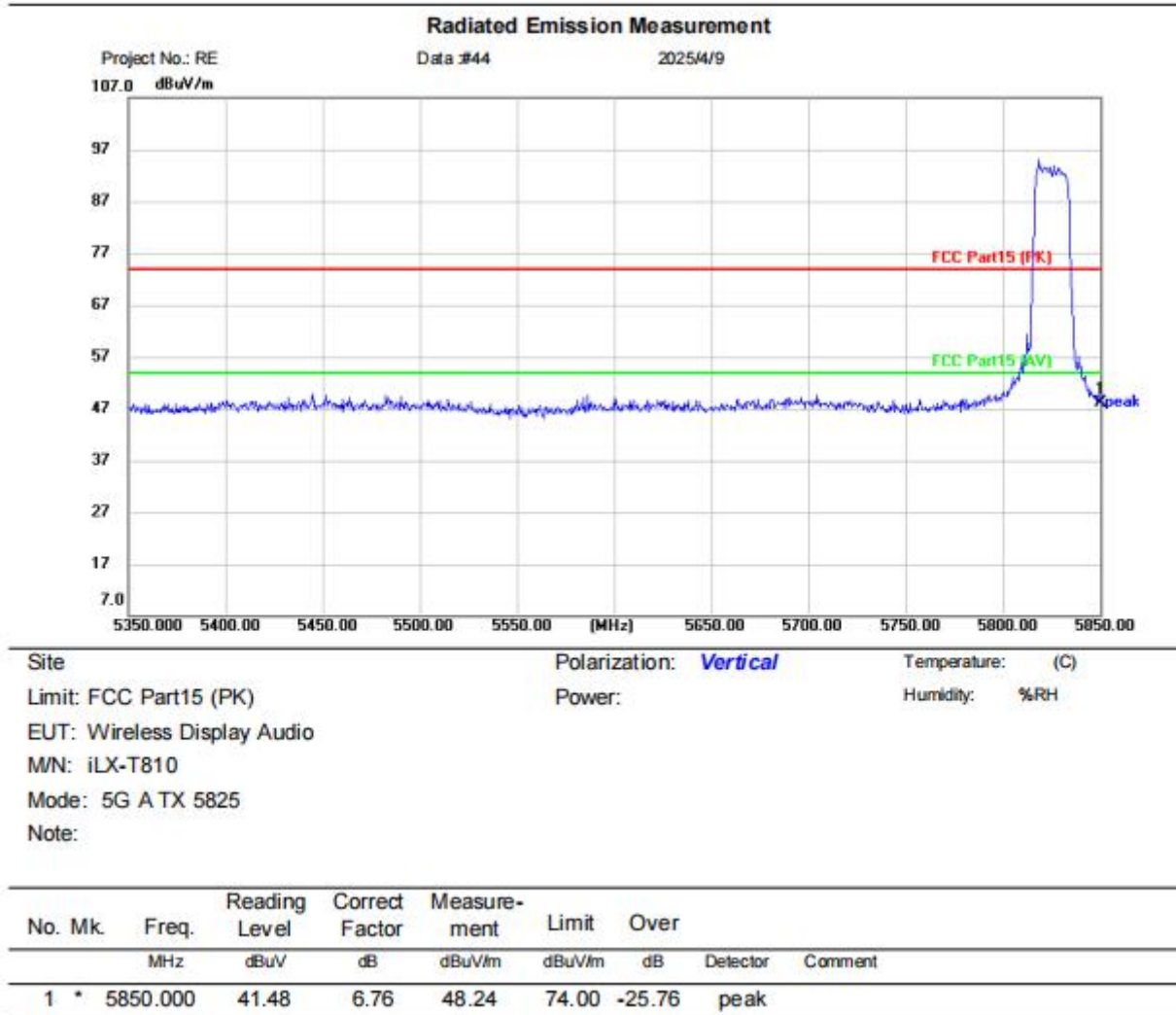
Test Result: Pass

[Test mode:Band4 TX High channel]; [Polarity: Horizontal]



Test Result: Pass

[Test mode:Band4 TX High channel]; [Polarity: Vertical]



Test Result: Pass

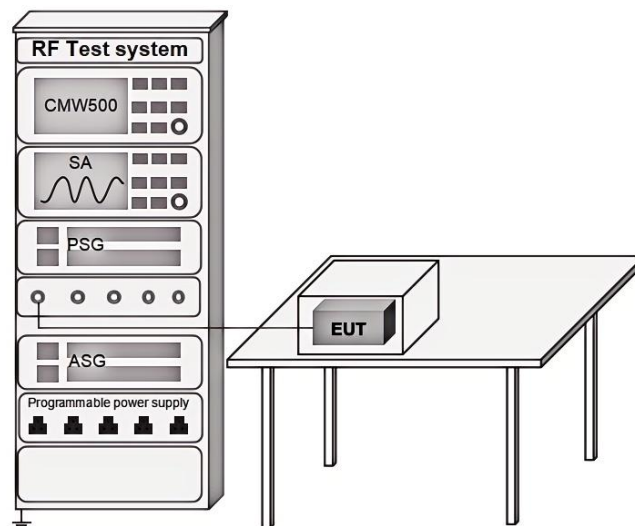
6.14 DFS: Channel Closing Transmission Time

Test Standard	47 CFR Part 15, Subpart E 15.407(h)(2)
Test Method	KDB 905462 D02 Section 7.8.3
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.14.1 Limit

200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period (should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. It is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions)

6.14.2 Test setup



6.14.3 Procedure

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file `iperf.exe` specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

6.14.4 Test data

Pass: Please refer to Report BLA-EMC-202503-A7706 for details