



FCC Radio Test Report

FCC ID: 2AME8FY15

This report concerns: Original Grant

Project No.	:	2606C019
Equipment	:	1) Firefly Aura 2) Firefly Pixel
Brand Name	:	Bond
Model Name	:	1) FLY-1500 2) FLY-1600
Applicant	:	olibra llc
Address	:	45 legion dr CRESSKILL, NJ 07626
Manufacturer	:	olibra llc
Address	:	45 legion dr CRESSKILL, NJ 07626
Factory	:	Chengdu Lelian Zhichuang Technology Co., Ltd.
Address	:	No. 1, 2nd Floor, Building 2, 15 Gaopeng Avenue, High-tech Zone, Chengdu, Sichuan Province
Date of Receipt	:	Jun. 01, 2026
Date of Test	:	Jun. 04, 2026 ~ Jul. 09, 2026
Issued Date	:	Jul. 16, 2026
Test Sample	:	Engineering Sample No.: DG920260601108 for radiated emissions, DG920260601106 for others.
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacturer's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2606C019	R00	Original Report.	Jul. 16, 2026	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standard:
ANSI C63.10-2020

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.205 15.209 15.231(b)	Radiated Emission	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.231(c)	20 dB Spectrum Bandwidth	APPENDIX E	PASS	-----
15.231(a)	Timing Testing	APPENDIX F	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U , (dB)
DGDLC02	CISPR	150kHz ~ 30MHz	2.66

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U , (dB)
DGDLCB03	CISPR	9kHz ~ 30MHz	2.26

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)
DGDLCB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	U , (dB)
DGDLCB03 (3m)	CISPR	1GHz ~ 6GHz	4.16

C. Other Measurement test:

Test Item	Uncertainty
Bandwidth	0.75 %
Temperature	0.7 °C
Humidity	1.7 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	25°C	54%	DC 12V	Hayden Chen	Jun. 24, 2026
Radiated Emissions-9kHz to 30 MHz	23°C	55%	DC 12V	Hayden Chen	Jun. 27, 2026
Radiated Emissions-30MHz to 1000MHz	25°C	50%	DC 12V	Torin Long	Jul. 08, 2026
Radiated Emissions-Above 1000MHz	24°C	47%	DC 12V	Jensen Zhou	Jun. 28, 2026
20 dB Spectrum Bandwidth	25°C	52%	DC 12V	Arvin Tong	Jun. 23, 2026
	22°C	47%	DC 12V	Arvin Tong	Jul. 03, 2026
Timing Testing	24°C	49%	DC 12V	Jensen Zhou	Jul. 09, 2026

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	1) Firefly Aura 2) Firefly Pixel
Brand Name	Bond
Test Model	1) FLY-1500 2) FLY-1600
Model Name	1) FLY-1500 2) FLY-1600
Model Difference(s)	Only differ in FLY-1500 has driving RGBWC PWM LED strip. And the FLY -1600 has two channel RGBWC Addressable LED driver and driving LED strip with a data, ground and VCC line per channel.
Hardware Version	V5
Software Version	v4.33.66
Power Source	1# DC Voltage supplied from AC adapter (support unit). 2# DC power supply
Power Rating	I/P: 12/24VDC O/P: 8A Max.
Operation Frequency	431MHz ~ 437MHz
Modulation Type	FSK
Field Strength	431MHz:76.27dBμV/m 437MHz:76.46dBμV/m

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

2. Channel List:

EUT Test Channel	Test Frequency (MHz)
CH01	431
CH02	433
CH03	434
CH04	437

3. Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Bat Wireless	BW433FNX27-17AL60	Internal	welding joint	-2.75

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode_CH01/CH04
Mode 2	TX Mode_CH04

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC Power Line Conducted Emissions	
Final Test Mode	Description
Mode 2	TX Mode_CH04

Radiated Emissions test - Below 1GHz	
Final Test Mode	Description
Mode 2	TX Mode_CH04

Fundamental Emissions and Radiated Emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode_CH01/CH04

20 dB Spectrum Bandwidth test	
Final Test Mode	Description
Mode 1	TX Mode_CH01/CH04

Timing Testing test	
Final Test Mode	Description
Mode 2	TX Mode_CH04

Note:

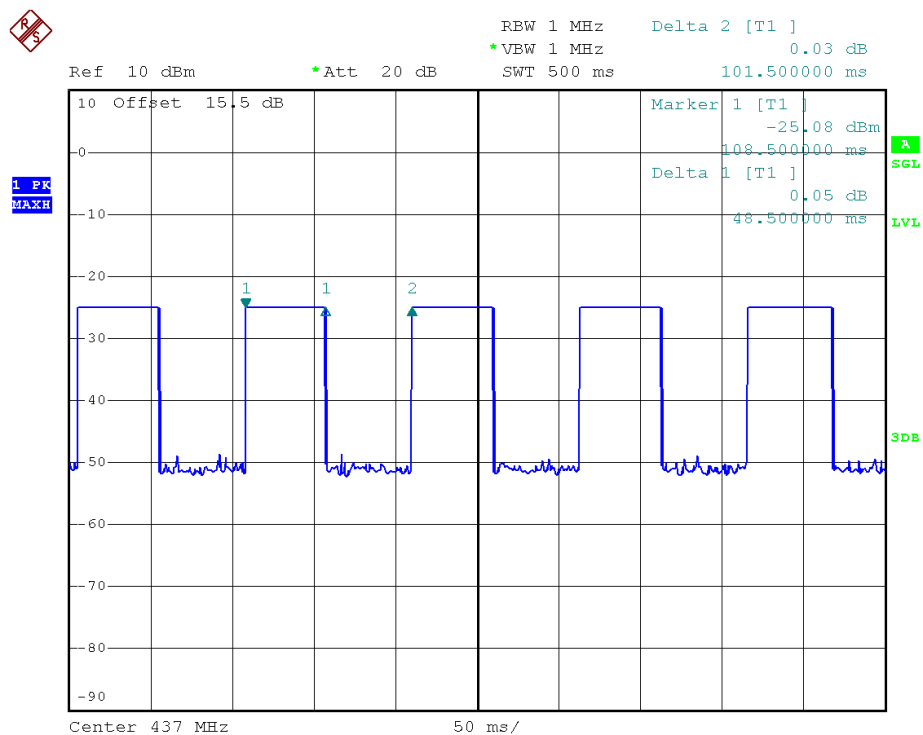
- 1) For AC power line conducted emissions and radiated emissions below 1 GHz test, DC Supply and Adapter Supply are evaluated, the worst case is Adapter Supply and recorded.
- 2) For fundamental emissions and radiated emission 1 GHz - 6GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical. In this report only recorded the worst case.
- 3) For AC power line conducted emissions, radiated spurious emissions below 1 GHz and timing testing test, the channel CH04 is found to be the worst case and recorded.

3.3 DUTY CYCLE

Test Frequency (MHz)	On Time (ms)	Total Time (ms)	Duty Cycle (%)
437	48.5	101.5	47.78

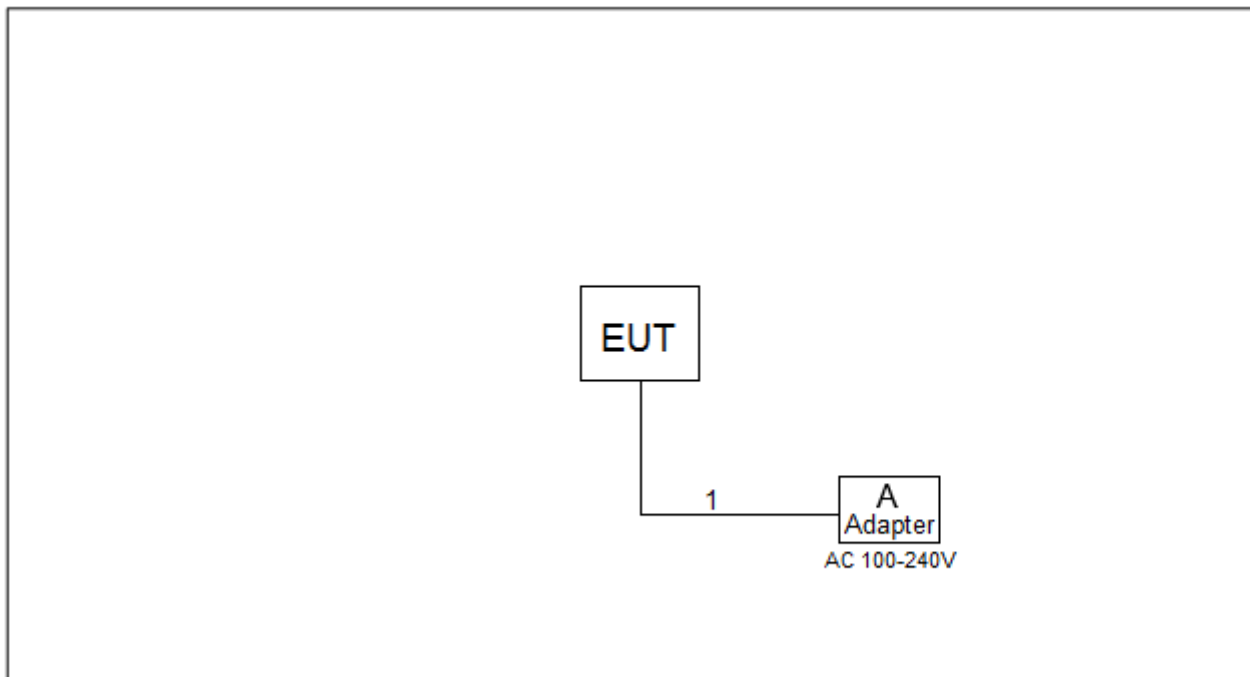
Average Reading = Peak Reading (dBuV/m) + 20log (Duty cycle)

Average Reading = Peak+20*log (Duty Cycle) = Peak-6.44



Date: 27.JUN.2026 01:36:37

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Adapter	KLEC	KL-WE120150-M	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m

3.6 CUSTOMER INFORMATION DESCRIPTION

- 4) The antenna gain is provided by the manufacturer.
- 5) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. All cable losses are provided by the testing laboratory.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

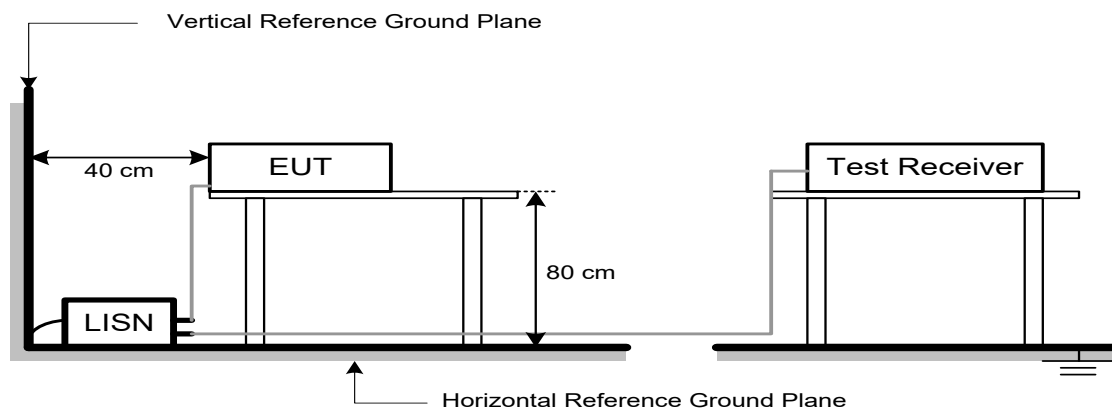
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSION

5.1 LIMIT

Frequency Band (MHz)	Fundamental Emissions Limit($\mu\text{V/m}$) at 3m
40.66-40.70	2250
70-130	1250
130-174	1250-3750(Note1)
174-260	3750
260-470	3750-12500(Note1)
Above 470	12500

Frequency Band (MHz)	Spurious Emissions Limit($\mu\text{V/m}$) at 3m (Note2)
40.66-40.70	225
70-130	125
130-174	125-375(Note1)
174-260	375
260-470	375-1250(Note1)
Above 470	1250

Note:

- 1) Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:
 - a) For the band 130 - 174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818 \times (\text{operating frequency, MHz}) - 6136.3636$;
 - b) For the band 260 - 470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667 \times (\text{operating frequency, MHz}) - 7083.3333$.
- 2) The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 15.209, whichever limit permits a higher field strength.

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Receiver Parameter	Setting
Attenuation	Auto
Center Frequency	Fundamental Frequency
RBW	120 kHz
Detector	Peak / Average

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 1MHz for Peak, AV Mode with Dwell time

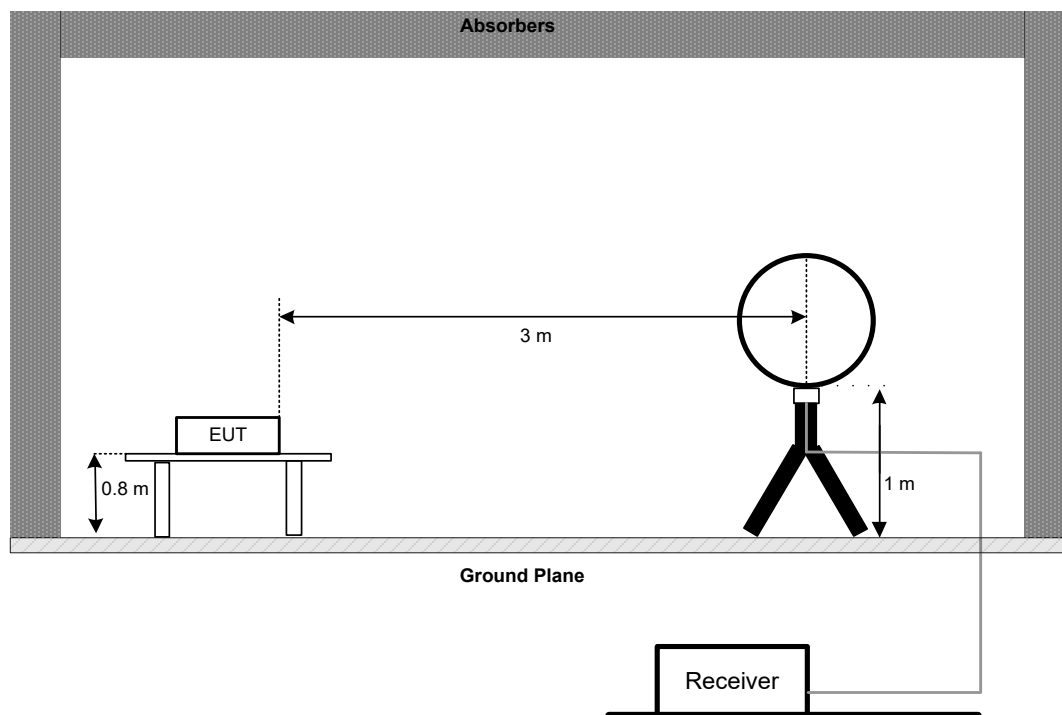
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~6 GHz for PK/AVG detector
Start ~ Stop Frequency	431.92 MHz~435.92 MHz for PK/AVG detector

5.3 DEVIATION FROM TEST STANDARD

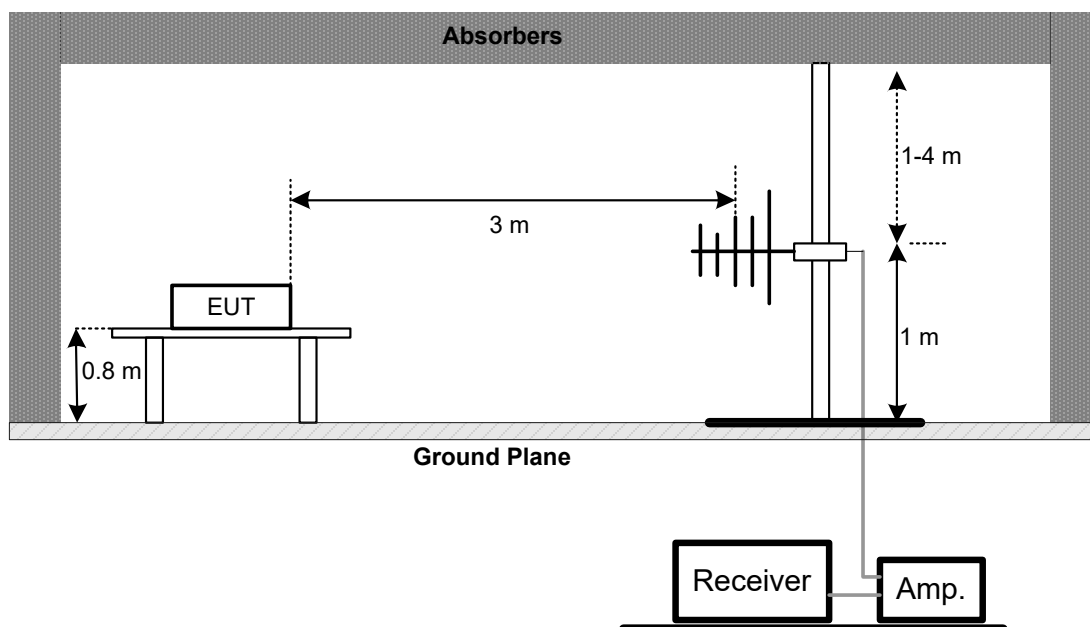
No deviation.

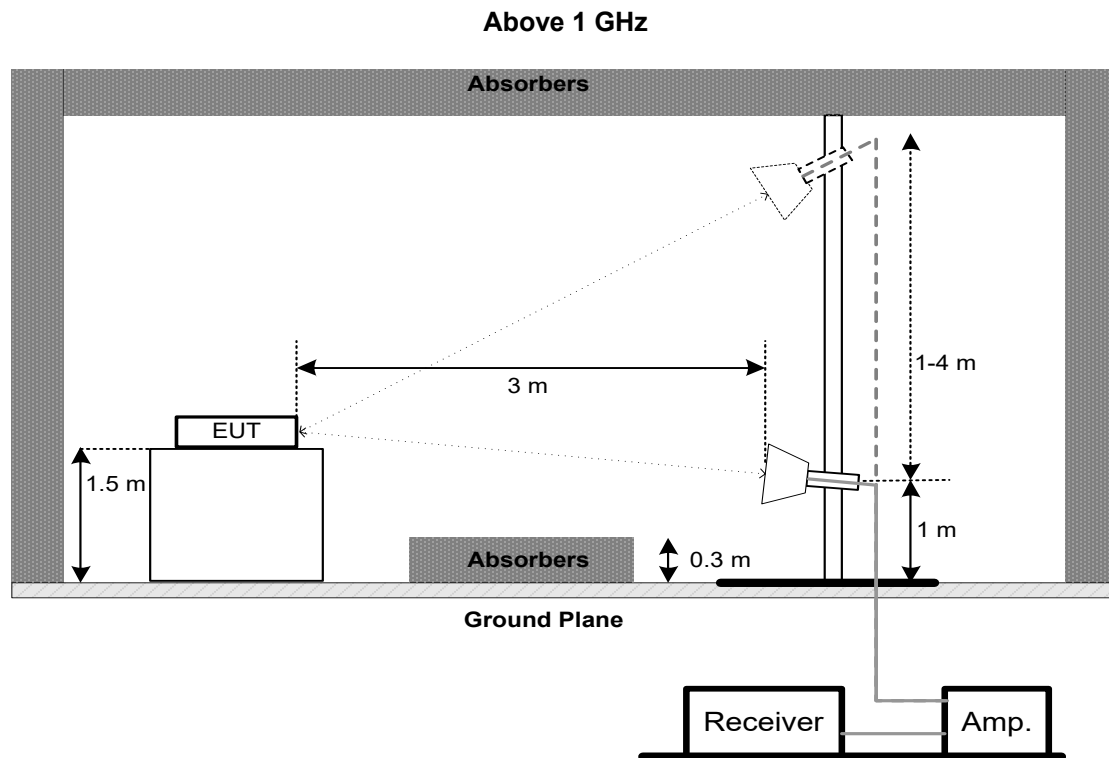
5.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

6. 20 DB SPECTRUM BANDWIDTH MEASUREMENT

6.1 LIMIT

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

6.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	> 20dB Bandwidth
RBW	10 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7. TIMING TESTING

7.1 LIMIT

- (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.
- (3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.
- (4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.
- (5) Transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (a)(1) and (a)(2) of this section, provided such transmissions are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	Zero Span
RBW	1 MHz
VBW	1 MHz
Detector	Peak
Trace	Clear Write
Sweep Time	10s

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

8. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESCI	100382	Nov. 21, 2026
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Nov. 21, 2026
3	BTL RE System	BTL	BTL RE System	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M-001	9M	Jul. 08, 2026
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 14, 2027
2	Receiver	Agilent	N9038A	MY52130039	Apr. 25, 2027
3	Cable	RegalWay	LMR400-NMNM-6m	N/A	Apr. 22, 2027
4	Cable	RegalWay	LMR400-NMRANM-3.5m	N/A	Apr. 22, 2027
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	CM	9*6*6	N/A	May 14, 2027

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01462	Dec. 07, 2026
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 07, 2026
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Apr. 25, 2027
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	May 17, 2027
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	May 17, 2027
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	May 17, 2027
7	Receiver	Agilent	N9038A	MY52130039	Apr. 25, 2027
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 14, 2027
11	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Apr. 25, 2027
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 17, 2026
3	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 03, 2027
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jun. 08, 2027
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jun. 08, 2027
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jun. 08, 2027
7	966 Chamber room	CM	9*6*6	N/A	May 14, 2027
8	Filter	COM-MW	ZHPF-M1-13G-W1 02	N/A	May 16, 2027
9	Positioning Controller	MF	MF-7802	N/A	N/A
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

20 dB Spectrum Bandwidth & Timing Testing					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyze	R&S	FSP38	100852	Apr. 25, 2027
2	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	May 16, 2027

Remark "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

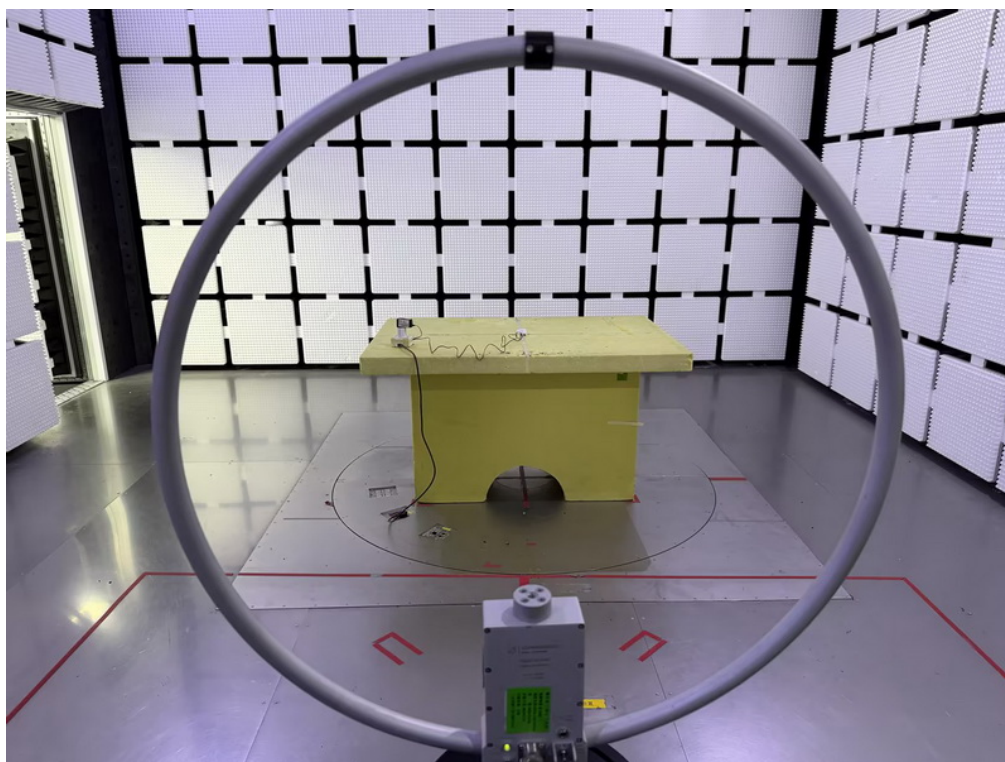
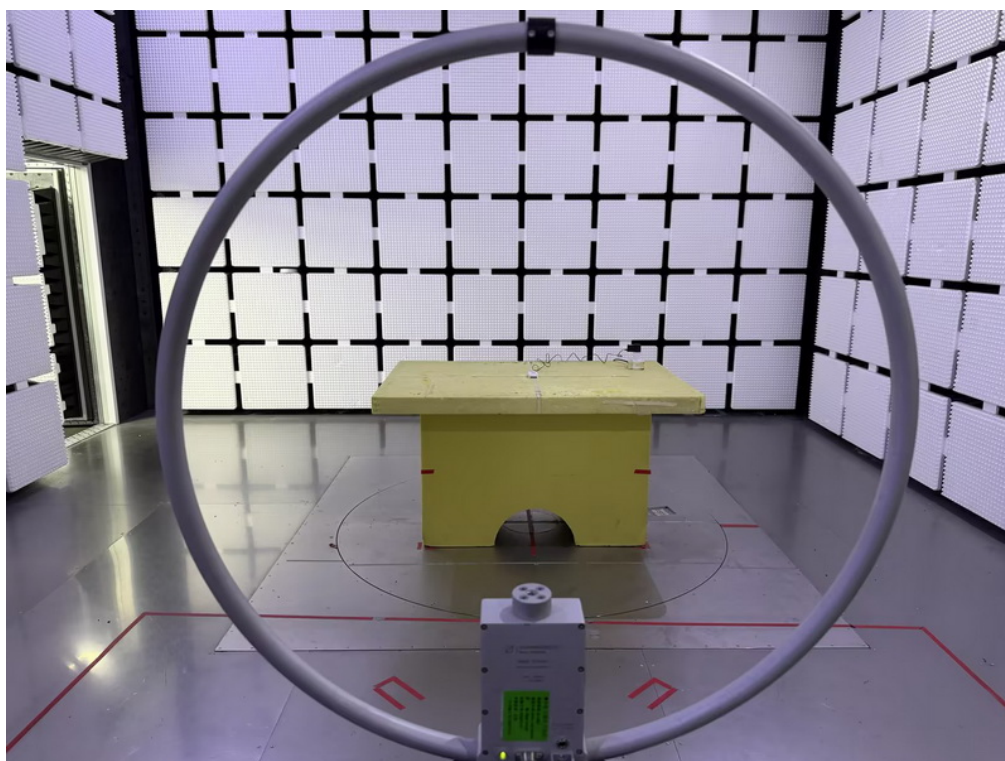
9. EUT TEST PHOTO

AC Power Line Conducted Emissions



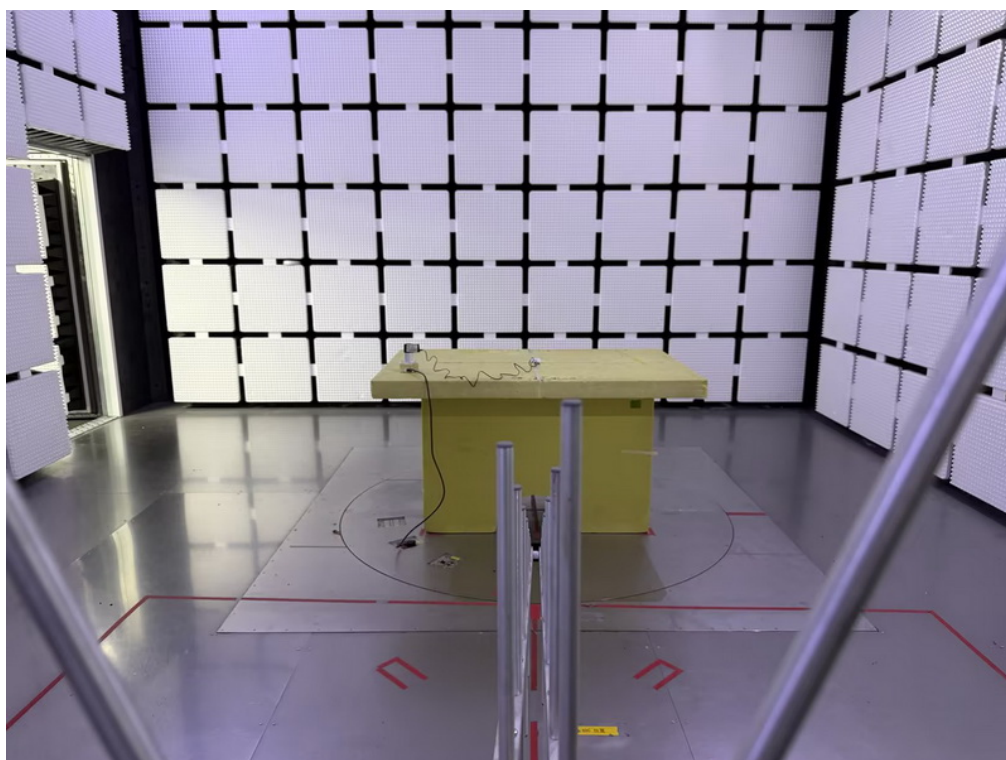
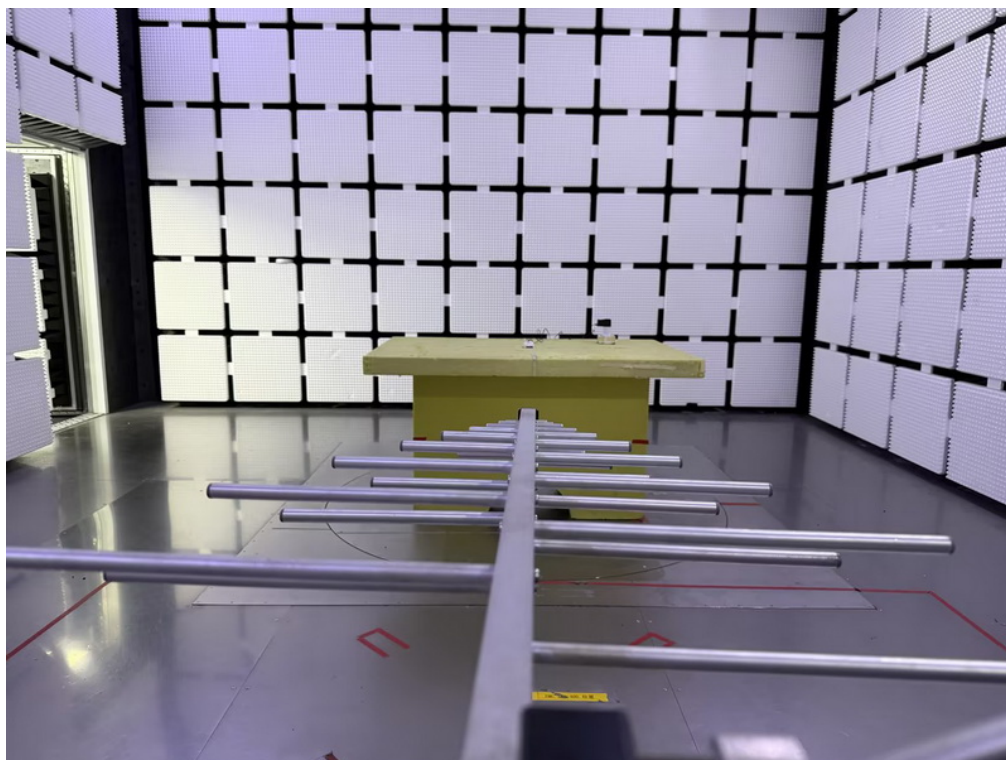
Radiated Emissions Test Photos

9 kHz to 30 MHz



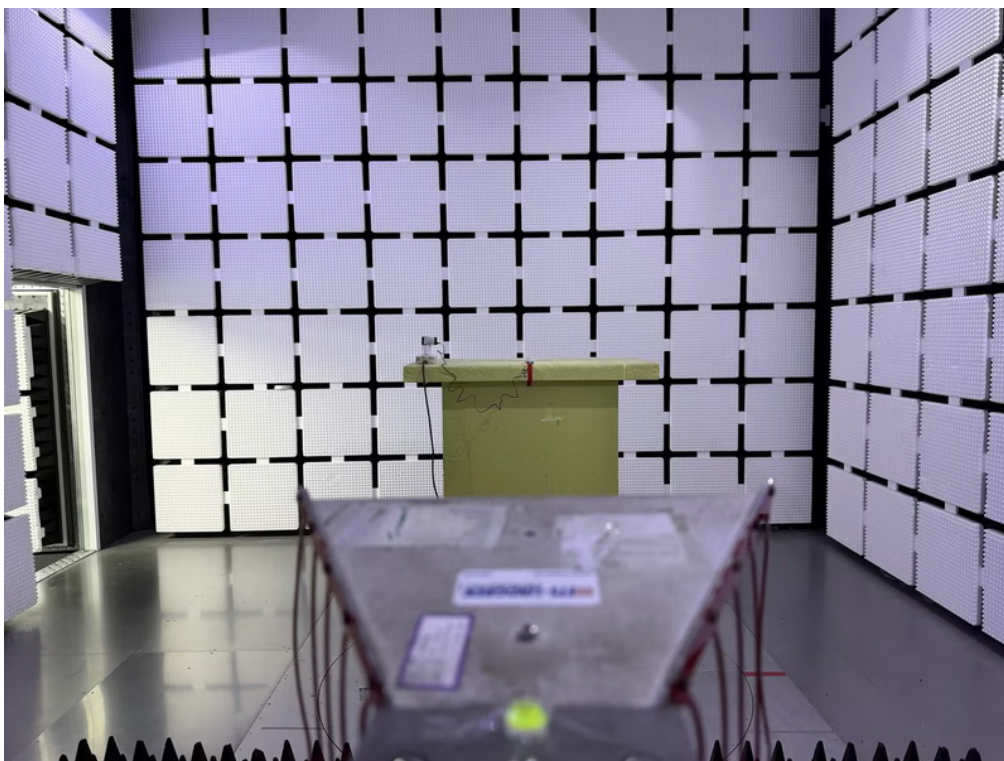
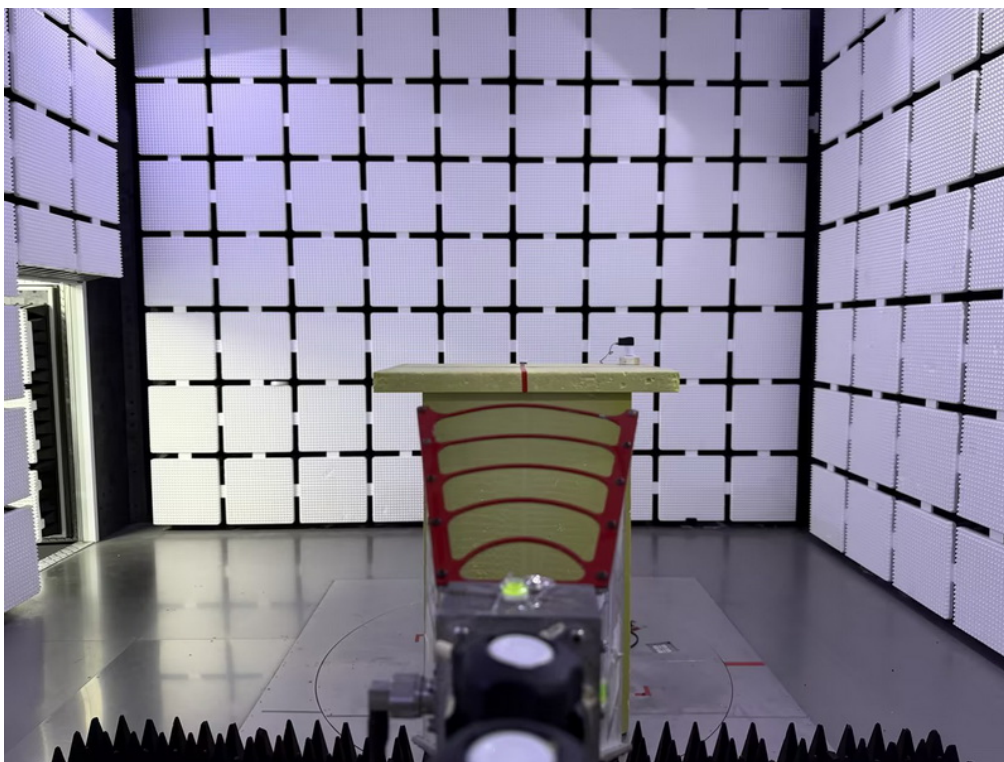
Radiated Emissions Test Photos

30 MHz to 1 GHz

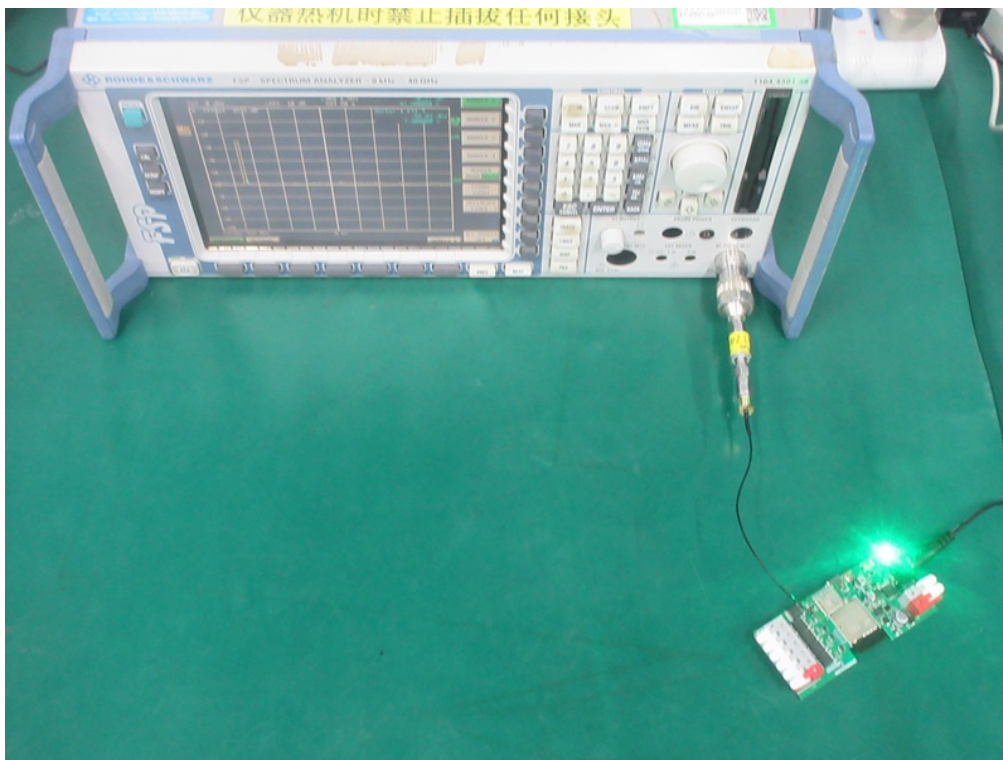


Radiated Emissions Test Photos

Above 1 GHz

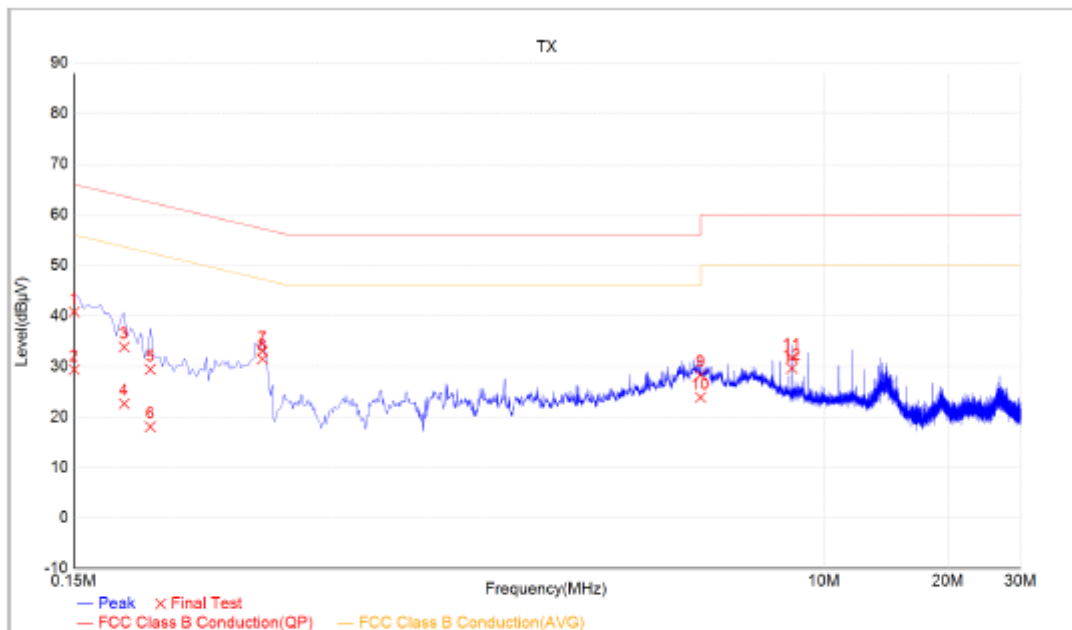


Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX Mode_437MHz	Phase	Line
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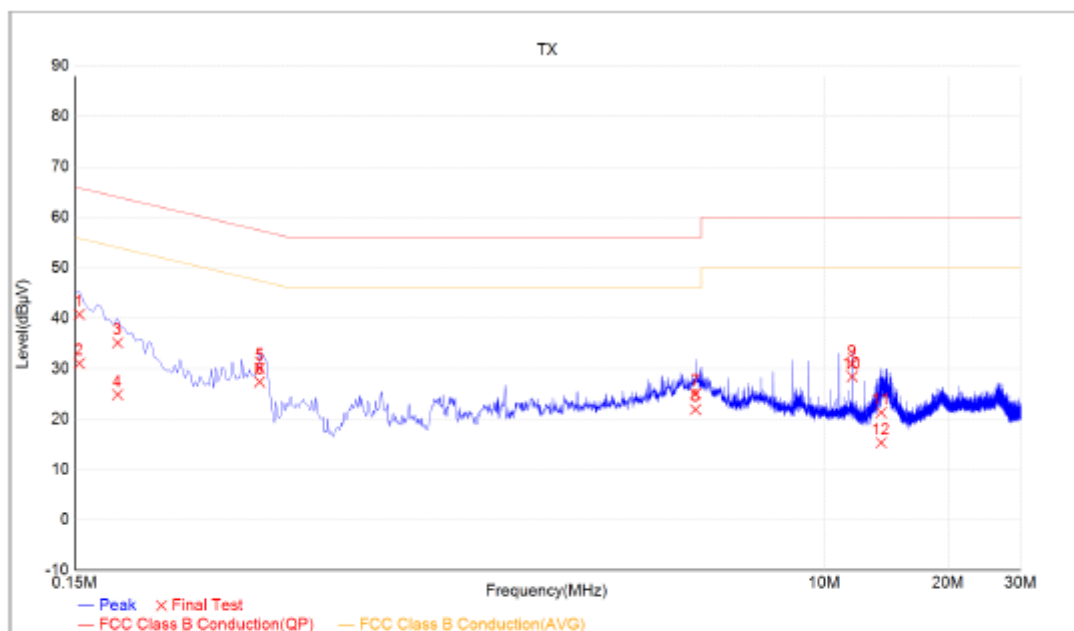
Suspected Note List									
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]	Detector	Content	
1	0.15	30.41	10.36	40.78	66	-25.22	QP		
2	0.15	19	10.36	29.36	56	-26.64	AVG		
3	0.1984	23.44	10.4	33.84	63.69	-29.85	QP		
4	0.1984	12.24	10.4	22.64	53.69	-31.06	AVG		
5	0.2296	18.99	10.42	29.41	62.45	-33.04	QP		
6	0.2296	7.65	10.42	18.07	52.45	-34.38	AVG		
7	0.4302	22.53	10.47	33	57.25	-24.26	QP		
*	0.4302	21	10.47	31.47	47.25	-15.78	AVG		
9	4.9981	17.13	11.15	28.27	56	-27.73	QP		
10	4.9981	12.72	11.15	23.87	46	-22.13	AVG		
11	8.3335	20.26	11.42	31.68	60	-28.32	QP		
12	8.3335	18.21	11.42	29.63	50	-20.37	AVG		

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_437MHz	Phase	Neutral
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Suspected Note List									
NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBuV]	Limit [dBuV]	Margin [dB]	Detector	Content	
1	0.1536	30.34	10.42	40.76	65.78	-25.02	QP		
2	0.1536	20.63	10.42	31.04	55.78	-24.74	AVG		
3	0.1902	24.89	10.44	35.12	64.04	-28.92	QP		
4	0.1902	14.4	10.44	24.84	54.04	-29.2	AVG		
5	0.422	19.58	10.49	30.07	57.41	-27.34	QP		
6	0.422	16.87	10.49	27.36	47.41	-20.05	AVG		
7	4.8498	13.86	11.17	25.04	56	-30.96	QP		
8	4.8498	10.7	11.17	21.87	46	-24.13	AVG		
9	11.6663	18.54	12.35	30.89	60	-29.11	QP		
10	11.6663	16.06	12.35	28.41	50	-21.59	AVG		
11	13.71	8.34	12.94	21.28	60	-38.72	QP		
12	13.71	2.37	12.94	15.31	50	-34.69	AVG		

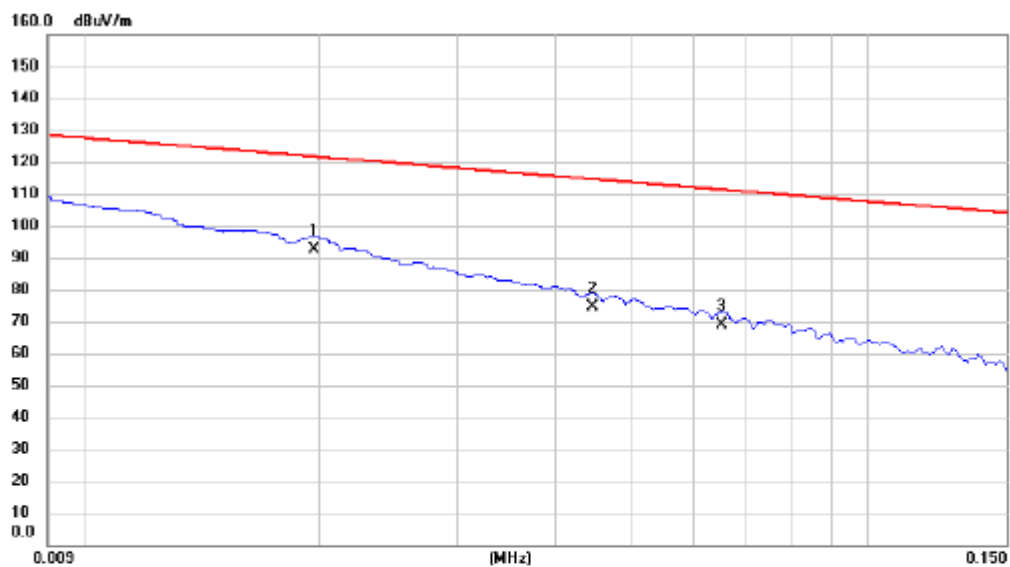
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX Mode_437MHz	Polarization	Ant 0°
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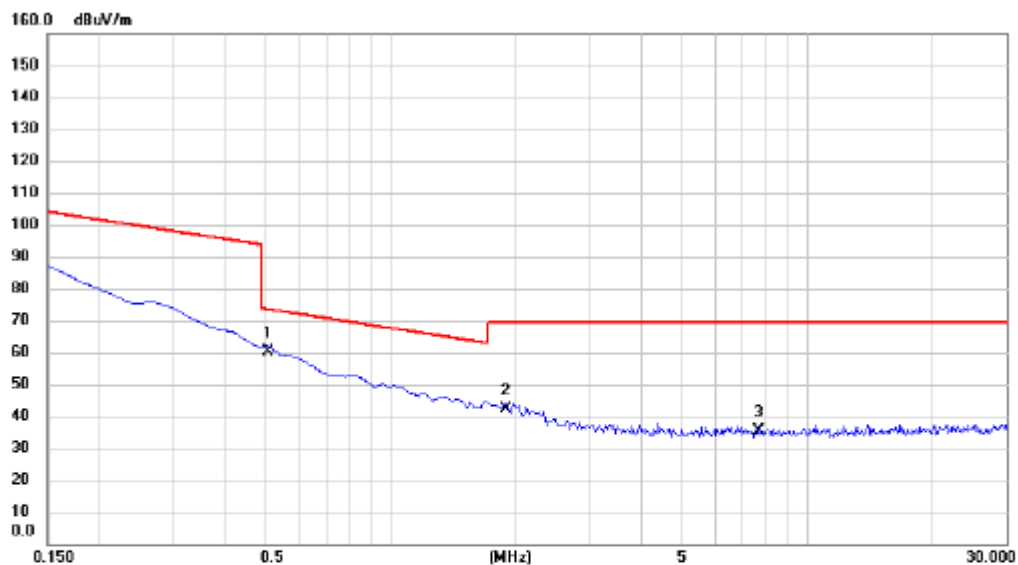


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.020	71.88	20.70	92.58	121.72	-29.14	AVG	
2		0.044	54.06	20.62	74.68	114.64	-39.96	AVG	
3		0.065	48.36	20.60	68.96	111.32	-42.36	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_437MHz	Polarization	Ant 0°
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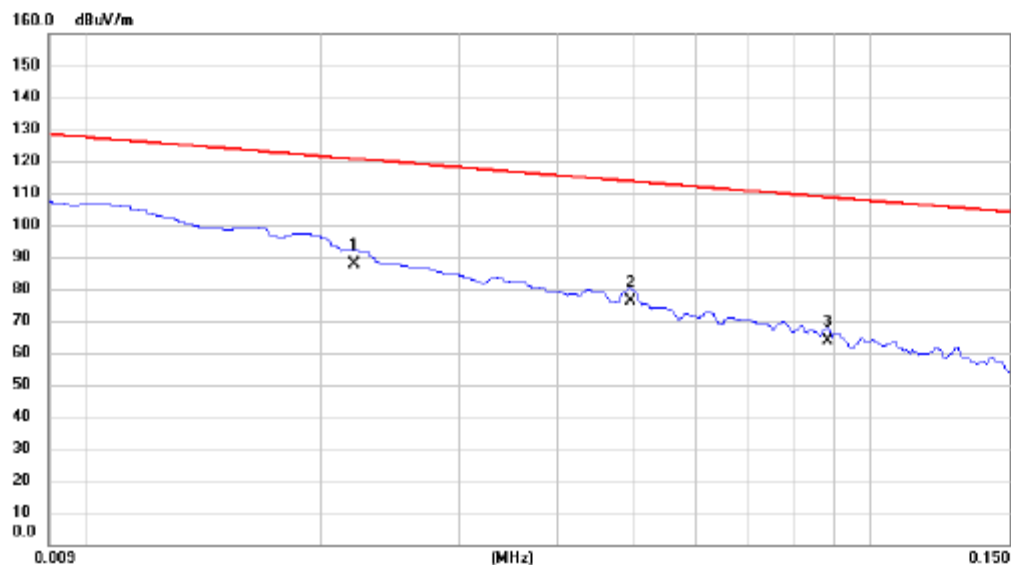
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.508	39.56	20.57	60.13	73.48	-13.35	QP	
2		1.881	21.90	20.29	42.19	69.54	-27.35	QP	
3		7.672	14.81	20.45	35.26	69.54	-34.28	QP	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_437MHz	Polarization	Ant 90°
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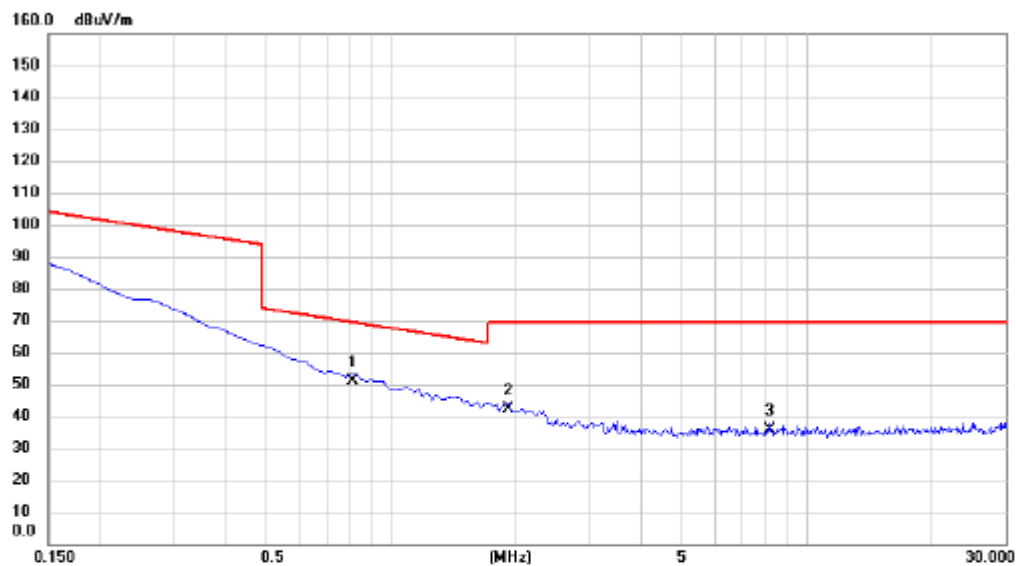
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.022	67.26	20.67	87.93	120.76	-32.83	AVG	
2	0.050	55.39	20.65	76.04	113.71	-37.67	AVG	
3	0.088	43.25	20.55	63.80	108.71	-44.91	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_437MHz	Polarization	Ant 90°
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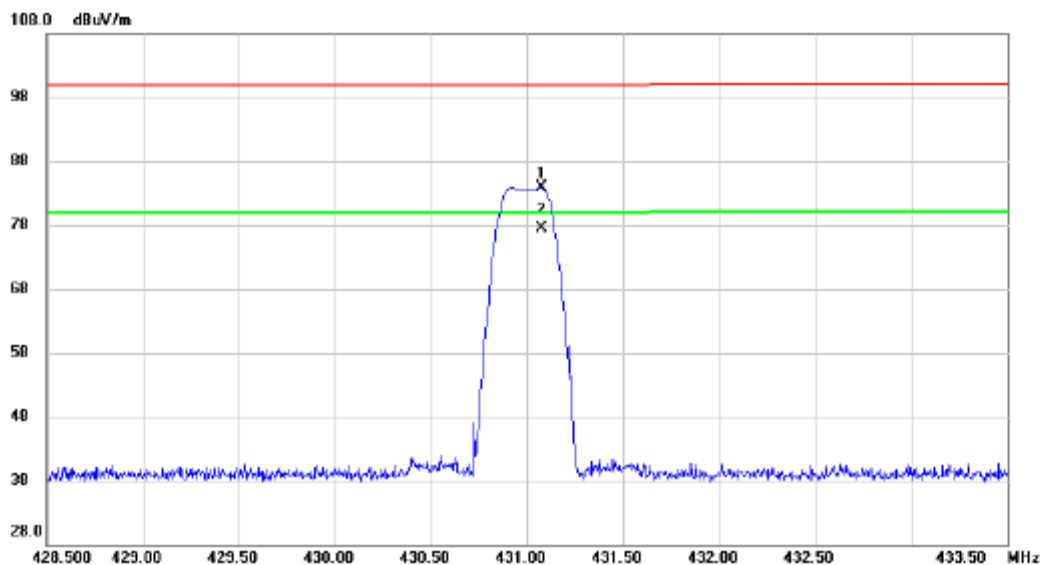
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.807	30.48	20.46	50.94	69.47	-18.53	QP	
2		1.911	21.74	20.30	42.04	69.54	-27.50	QP	
3		8.120	15.17	20.48	35.65	69.54	-33.89	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX Mode_431MHz	Polarization	Vertical
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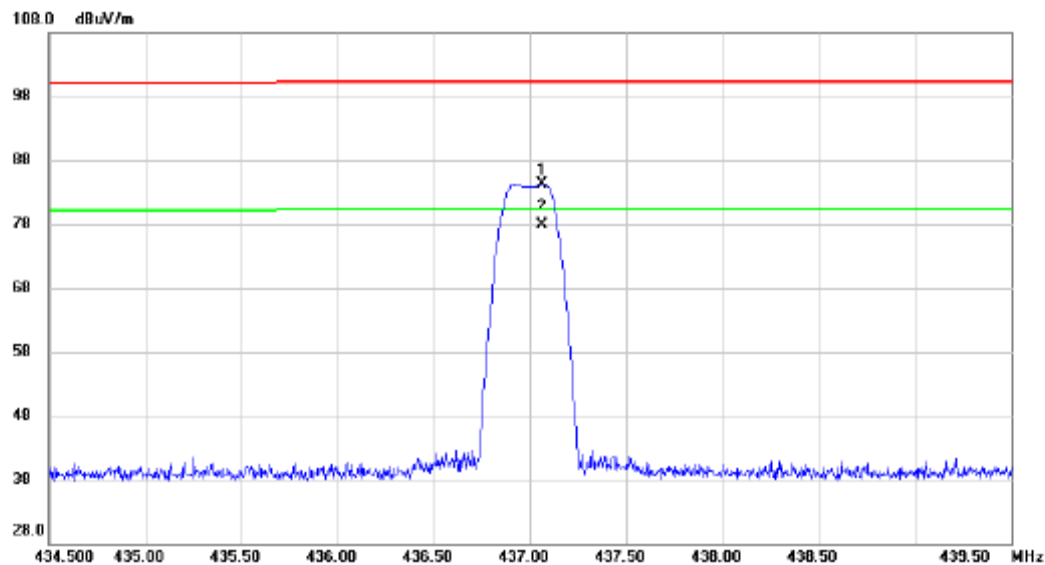


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		431.075	81.23	2.72	83.95	99.97	-16.02	peak	
2 *		431.075	74.79	2.72	77.51	79.97	-2.46	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) About the duty cycle correction factor calculated, please refer to the Section 3.3.

Test Mode	TX Mode_437MHz	Polarization	Vertical
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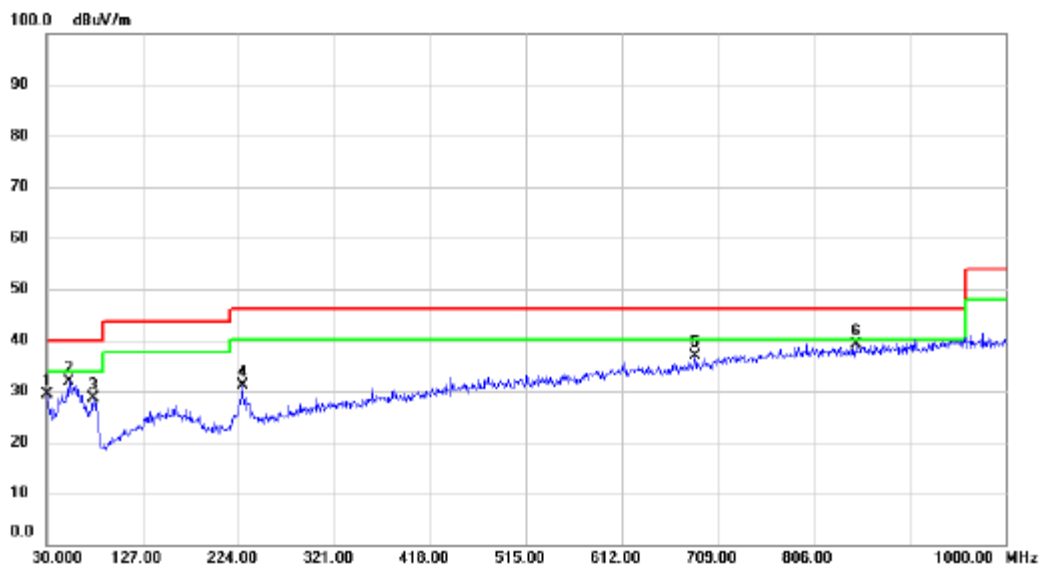


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		437.065	81.38	2.92	84.30	100.27	-15.97	peak	
2	*	437.065	74.94	2.92	77.86	80.27	-2.41	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) About the duty cycle correction factor calculated, please refer to the Section 3.3.

Test Mode	TX Mode_437MHz	Polarization	Vertical
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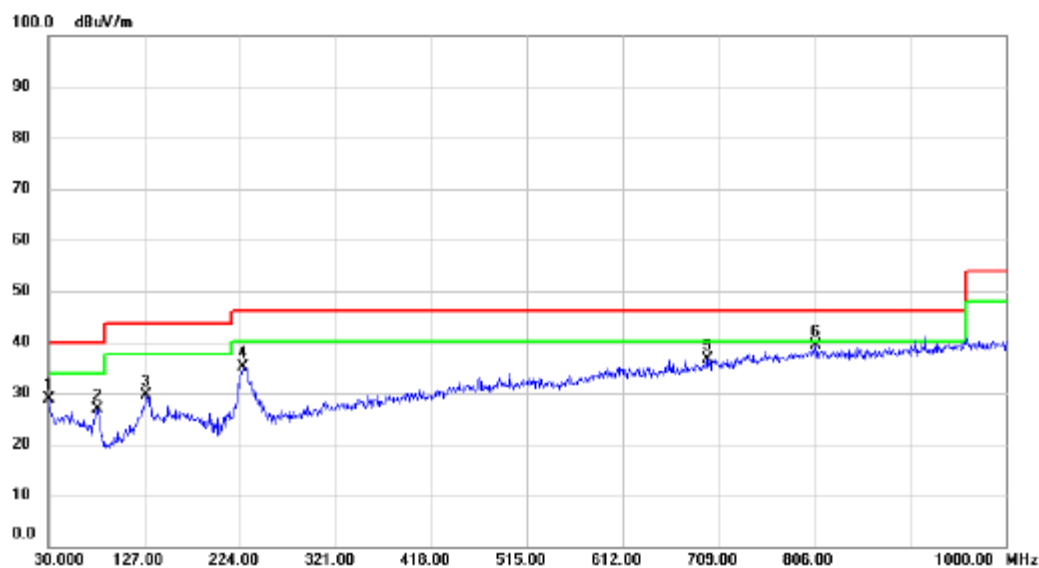


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		30.000	41.00	-11.64	29.36	40.00	-10.64	peak	
2		52.310	43.42	-11.44	31.98	40.00	-8.02	peak	
3		76.560	43.34	-14.81	28.53	40.00	-11.47	peak	
4		227.880	45.03	-13.83	31.20	46.02	-14.82	peak	
5		686.690	39.33	-2.52	36.81	46.02	-9.21	peak	
6	*	848.680	39.89	-0.68	39.21	46.02	-6.81	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) About the duty cycle correction factor calculated, please refer to the Section 3.3.

Test Mode	TX Mode_437MHz	Polarization	Horizontal
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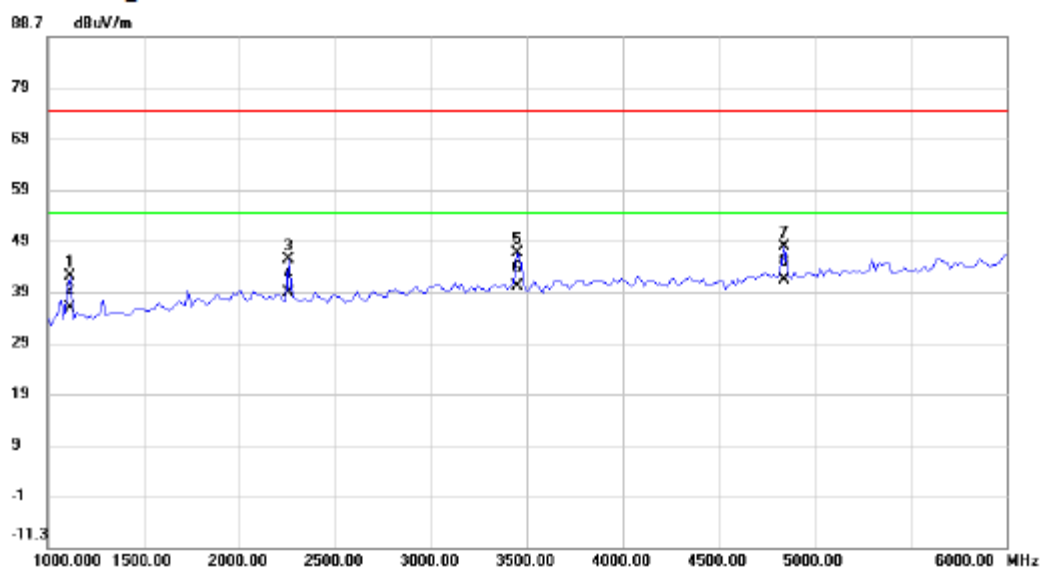
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		30.000	40.44	-11.64	28.80	40.00	-11.20	peak	
2		79.470	42.50	-15.61	26.89	40.00	-13.11	peak	
3		128.940	42.53	-12.89	29.64	43.52	-13.88	peak	
4		226.910	49.10	-13.92	35.18	46.02	-10.84	peak	
5		697.360	38.88	-2.29	36.59	46.02	-9.43	peak	
6	*	807.940	39.92	-0.59	39.33	46.02	-6.69	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) About the duty cycle correction factor calculated, please refer to the Section 3.3.

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	TX Mode_431MHz	Polarization	Vertical
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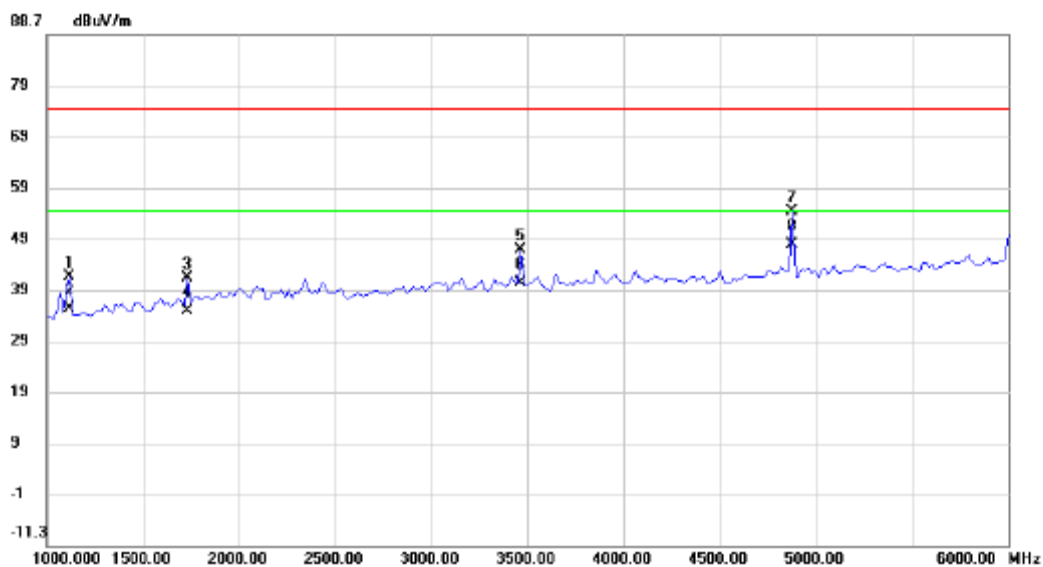
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1119.000	50.15	-8.24	41.91	74.00	-32.09	peak	
2		1119.000	43.71	-8.24	35.47	54.00	-18.53	AVG	
3		2258.000	47.78	-2.76	45.02	74.00	-28.98	peak	
4		2258.000	41.34	-2.76	38.58	54.00	-15.42	AVG	
5		3448.000	45.80	0.44	46.24	74.00	-27.76	peak	
6		3448.000	39.36	0.44	39.80	54.00	-14.20	AVG	
7		4842.000	44.86	2.76	47.62	74.00	-26.38	peak	
8	*	4842.000	38.42	2.76	41.18	54.00	-12.82	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_437MHz	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1119.000	49.66	-8.24	41.42	74.00	-32.58	peak	
2		1119.000	43.22	-8.24	34.98	54.00	-19.02	AVG	
3		1731.000	45.45	-4.40	41.05	74.00	-32.95	peak	
4		1731.000	39.01	-4.40	34.61	54.00	-19.39	AVG	
5		3465.000	46.00	0.47	46.47	74.00	-27.53	peak	
6		3465.000	39.56	0.47	40.03	54.00	-13.97	AVG	
7		4876.000	51.14	2.88	54.02	74.00	-19.98	peak	
8	*	4876.000	44.70	2.88	47.58	54.00	-6.42	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - 20 DB SPECTRUM BANDWIDTH

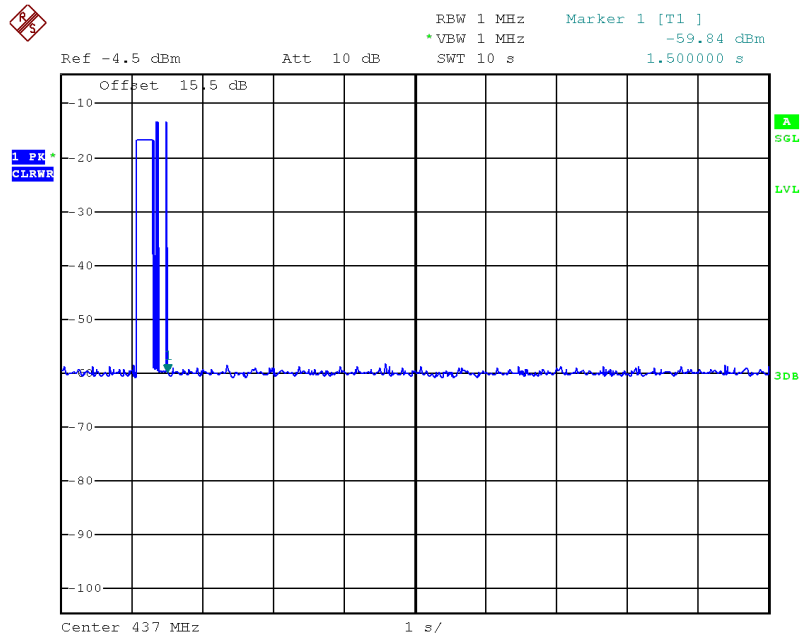
Test Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Result
01	431	0.209	1.0848	PASS
04	437	0.209	1.0848	PASS



APPENDIX F - TIMING TESTING

Test Mode	TX Mode_437MHz
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Frequency (MHz)	On Time (Sec)	Limit (Sec)
437	1.5	≤5



Date: 9.JUL.2026 09:51:38

End of Test Report