

FCC Test Report

Report No. : 1812C60131212501

Applicant : ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD

Address : Room 2101, 21st Floor of B Block, Silicon
Valley Plaza,82 Culture Street,Jinshui District,
ZHENGZHOU,HENAN 450053 China

Product Name : Kitchen Paging System

Report Date : 2026-04-16

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD
Manufacturer : HONG KONG RETEKESS CO.,LIMITED
Product Name : Kitchen Paging System
Model No. : TD037, TD168T
Trade Mark : RETEKESS
Rating(s) : Input: 12V=1A

Test Standard(s) : 47 CFR Part 15.231

Test Method(s) : ANSI C63.10-2020+Cor.1-2023

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15.231 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt 2026-03-09

Date of Test 2026-03-09 to 2026-04-16

Prepared by

Polly Mo

(Polly Mo)

Approved & Authorized Signer

Hugo Chen

(Hugo Chen)

1. General Information

1.1. Client Information

Applicant	:	ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD
Address	:	Room 2101, 21st Floor of B Block, Silicon Valley Plaza,82 Culture Street,Jinshui District, ZHENGZHOU,HENAN 450053 China
Manufacturer	:	HONG KONG RETEKESS CO.,LIMITED
Address	:	FLAT/RM 1019B 10/F LIVEN HOUSE NO.61-63 KING YIP STREET KWUN TONG KL

1.2. Description of Device (EUT)

Product Name	:	Kitchen Paging System
Model No.	:	TD037, TD168T (Note: All samples are the same except the model number, so we prepare "TD037" for test only.)
Trade Mark	:	RETEKESS
Test Power Supply	:	AC 120V/60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	433.92MHz
Number of Channel	:	1 Channel
Modulation Type	:	OOK
Antenna Type	:	RP-SMA antenna
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

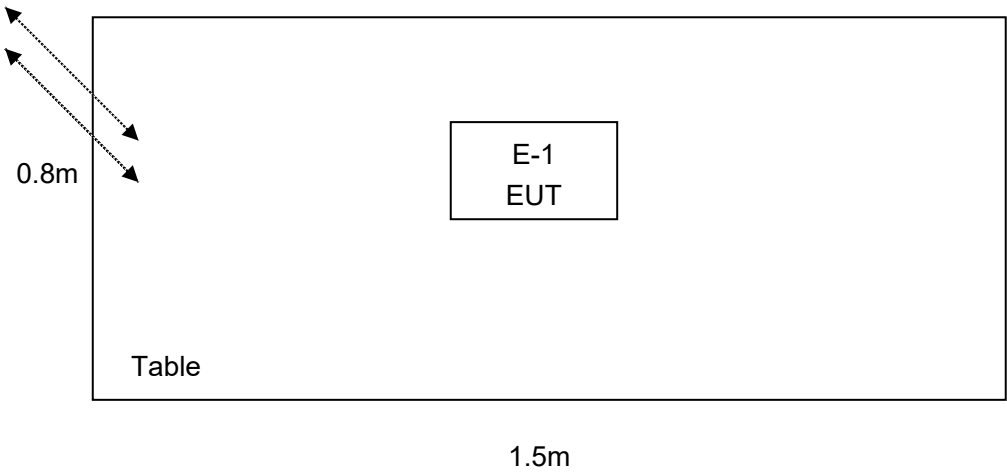
1.4. Description of Test Configuration

The engineering test program was provided and the EUT was programmed to be in transmitting mode.

Channel	Freq.(MHz)
01	433.92

1.6. Description of Test Setup

RE



1.7. Test Equipment List

Dwell Time Duty Cycle 20dB Bandwidth					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	2025-10-10	2026-10-09
2	DC Power Supply	IVYTECH	IV3605	2025-09-05	2026-09-04
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	2025-12-29	2026-12-28
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	2025-12-29	2026-12-28
5	Oscilloscope	Tektronix	MDO3012	2025-09-30	2026-09-29
6	MXG RF Vector Signal Generator	Agilent	N5182A	2025-12-29	2026-12-28
7	RF Test software	Toscend	JS1120-3	/	/

Field Strength of The Fundamental Signal Radiated Emission (below 1GHz)					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	2025-12-30	2026-12-29
2	Pre-amplifier	SONOMA	310N	2025-12-30	2026-12-29
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	2025-10-26	2028-10-25
4	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519B	2025-09-05	2026-09-04
5	EMI Test Software EZ-EMC	SHURPLE	N/A	/	/

Radiated Emission (above 1GHz)					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	2025-12-30	2026-12-29
2	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	2025-12-30	2026-12-29
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	2025-10-27	2028-10-26
4	EMI Test Software EZ-EMC	SHURPLE	N/A	/	/
5	Horn Antenna	A-INFO	LB-180400-KF	2024-01-22	2027-01-21
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	2025-12-29	2026-12-28
7	Amplifier	Talent Microwave	TLLA18G40G-53-30	2026-01-05	2027-01-04

1.8. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	2.8dB
Occupied Bandwidth	552Hz
Duty Cycle	5%
Dwell Time	2%
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.14dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.94dB; Vertical: 4.34dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.22dB 6G-18GHz: 4.14dB 18G-40GHz: 5.58dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.9. Description of Test Facility

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

FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.10. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209/15.231(e)	Spurious Emission	PASS
15.231(c)	20dB Occupied Bandwidth	PASS
15.231(e)	Dwell time	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

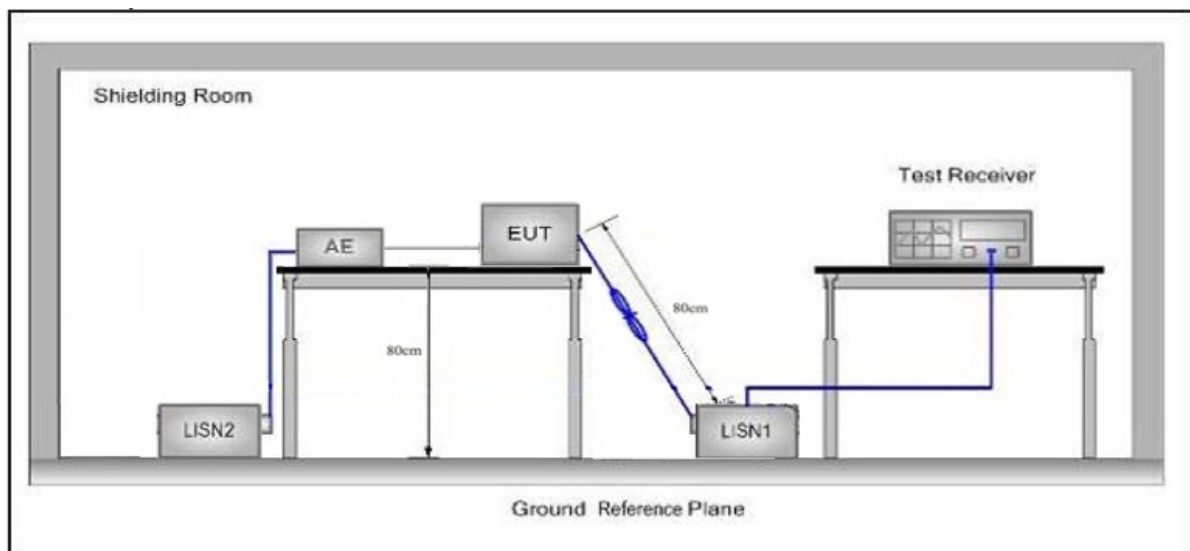
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2020+Cor.1-2023 on Conducted Emission Measurement.

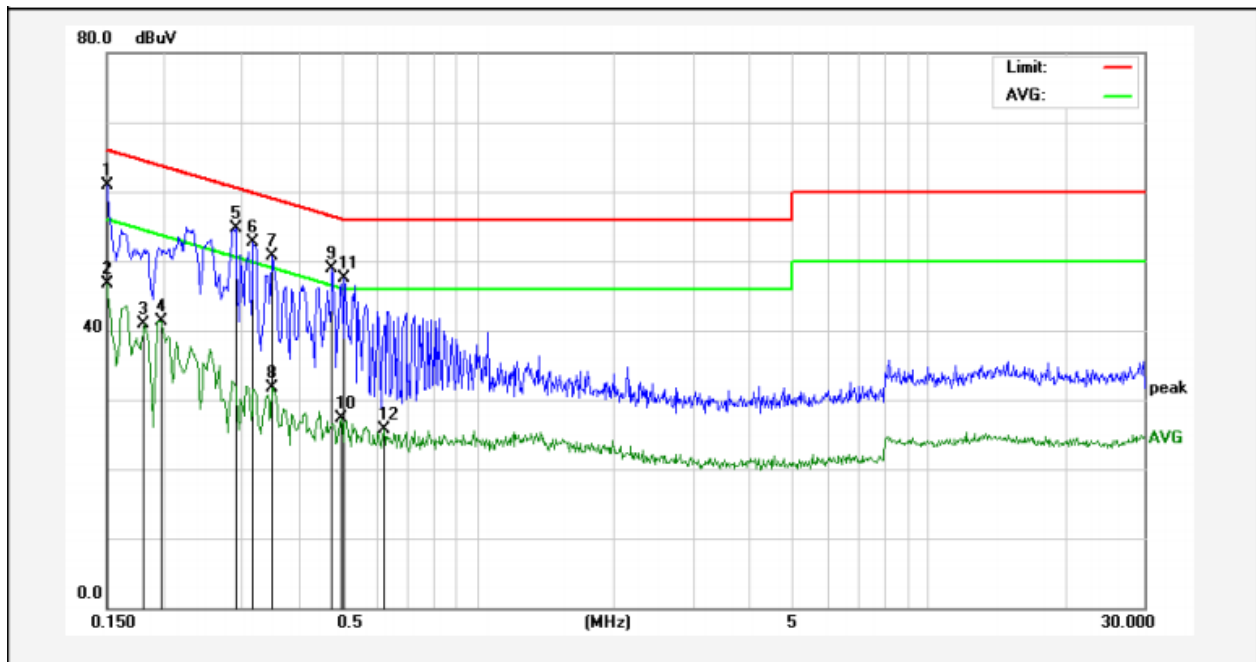
The bandwidth of test Receiver set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 433.92MHz
Test Specification: DC 12V from adapter input AC 120V/60Hz
Comment: Live Line
Temp.(°C)/Hum.(%RH): 24.9°C/59%RH

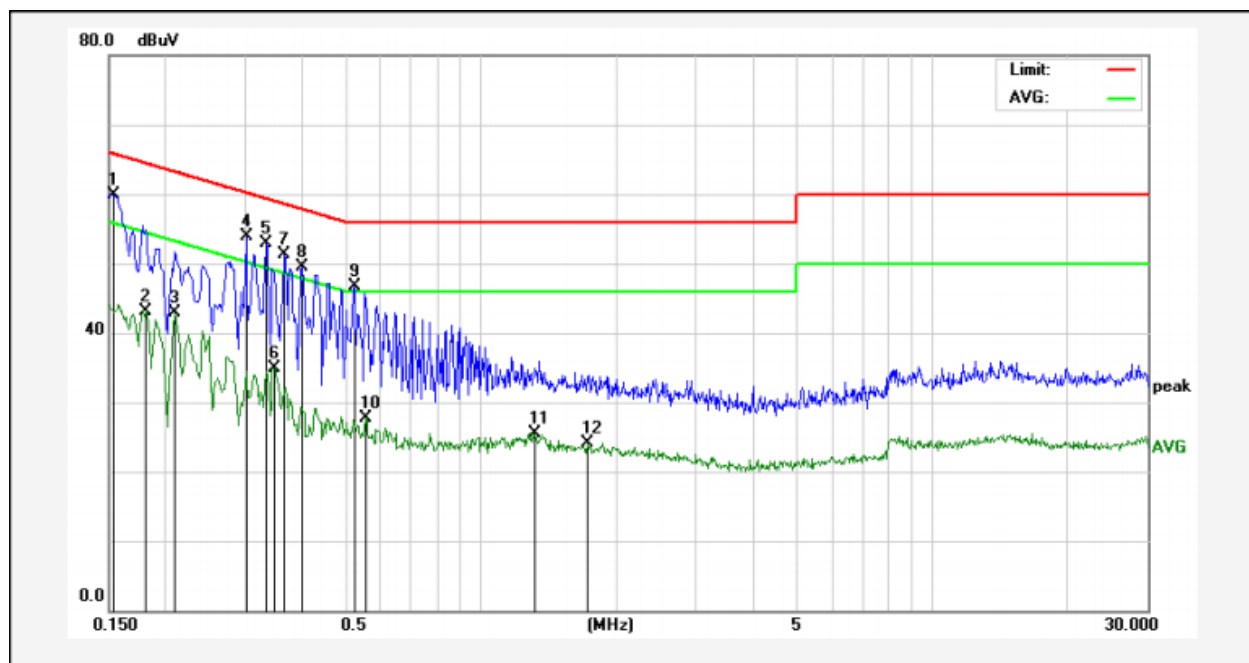


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	33.08	27.83	60.91	65.99	-5.08	QP	
2	0.1500	18.90	27.83	46.73	55.99	-9.26	AVG	
3	0.1819	13.14	27.83	40.97	54.39	-13.42	AVG	
4	0.1980	13.45	27.83	41.28	53.69	-12.41	AVG	
5	0.2900	26.87	27.85	54.72	60.52	-5.80	QP	
6	0.3180	24.82	27.85	52.67	59.76	-7.09	QP	
7	0.3500	22.93	27.83	50.76	58.96	-8.20	QP	
8	0.3500	3.84	27.83	31.67	48.96	-17.29	AVG	
9	0.4740	21.05	27.86	48.91	56.44	-7.53	QP	
10	0.4980	-0.64	27.87	27.23	46.03	-18.80	AVG	
11	0.5060	19.70	27.87	47.57	56.00	-8.43	QP	
12	0.6180	-2.25	27.88	25.63	46.00	-20.37	AVG	

Note: Result = Reading + Factor Over Limit = Result - Limit

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 433.92MHz
Test Specification: DC 12V from adapter input AC 120V/60Hz
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 24.9°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	32.11	27.84	59.95	65.78	-5.83	QP	
2	0.1819	15.31	27.83	43.14	54.39	-11.25	AVG	
3	0.2100	15.04	27.83	42.87	53.20	-10.33	AVG	
4	0.3020	26.00	27.85	53.85	60.19	-6.34	QP	
5	0.3339	25.13	27.84	52.97	59.35	-6.38	QP	
6	0.3500	7.09	27.83	34.92	48.96	-14.04	AVG	
7	0.3660	23.48	27.83	51.31	58.59	-7.28	QP	
8	0.4020	21.68	27.82	49.50	57.81	-8.31	QP	
9	0.5260	18.79	27.87	46.66	56.00	-9.34	QP	
10	0.5580	-0.08	27.87	27.79	46.00	-18.21	AVG	
11	1.3220	-2.30	27.87	25.57	46.00	-20.43	AVG	
12	1.7300	-3.78	27.86	24.08	46.00	-21.92	AVG	

Note: Result = Reading + Factor Over Limit = Result - Limit

4. Radiated Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209, 15.205 and 15.231(e)				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level

$$\text{Emission Level (dBuV/m)} = 20 \log \text{Emission Level (uV/m)}$$

The field strength of emission limits have been calculated in below table:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)@3m
433.92	72.87 (AVG)
433.92	92.87 (Peak)

4.2. Test Setup

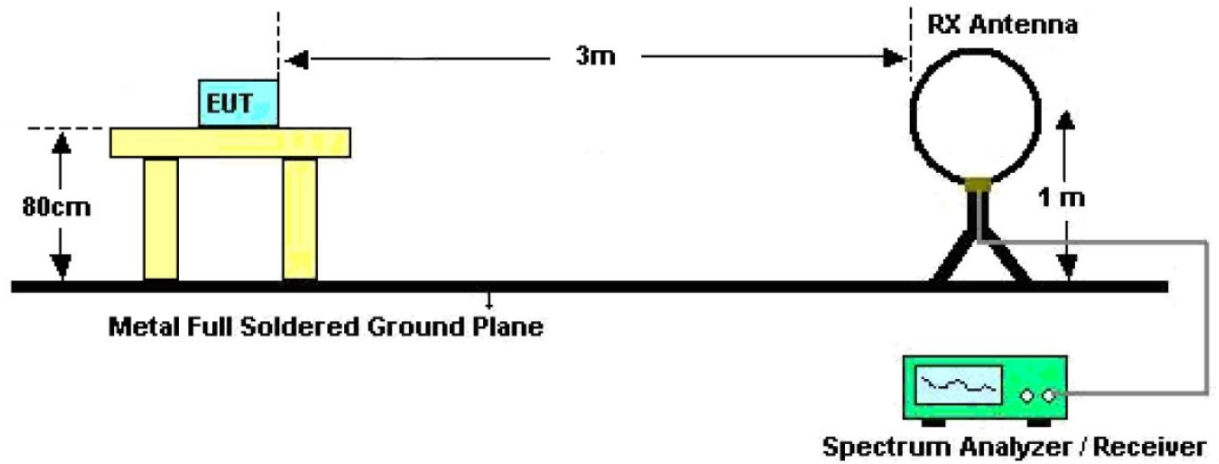


Figure 1. Below 30MHz

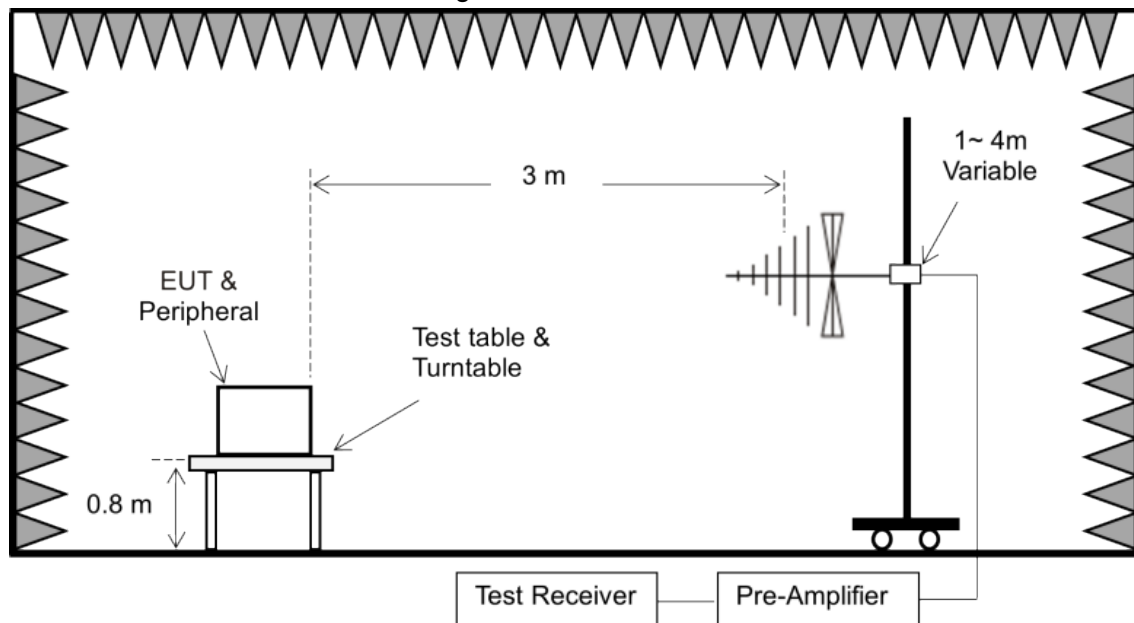


Figure 2. 30MHz to 1GHz

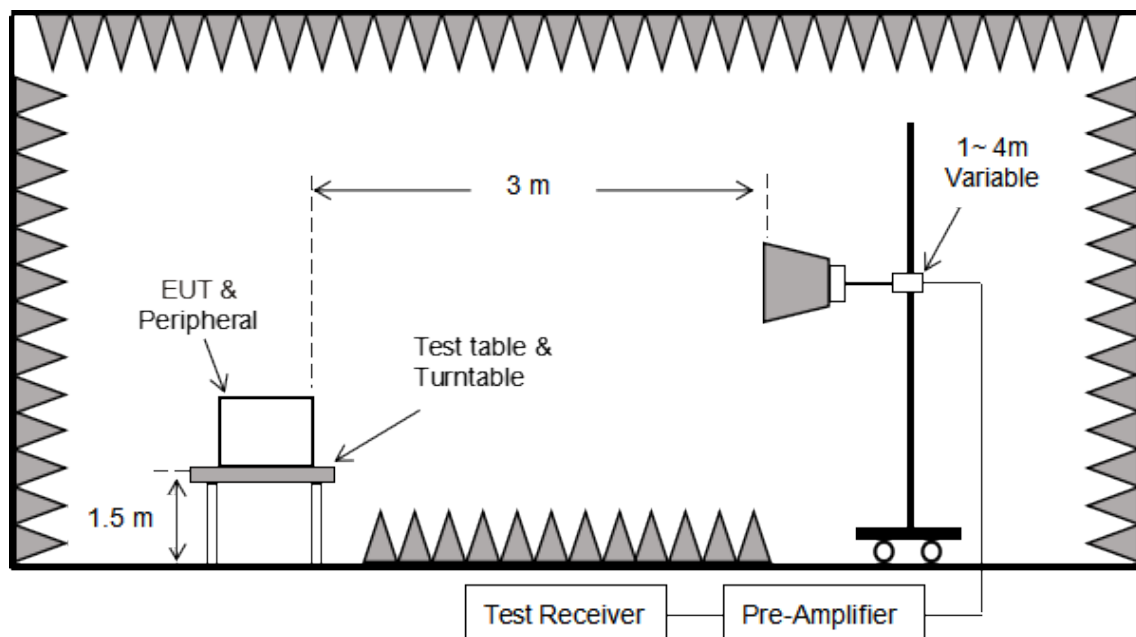


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

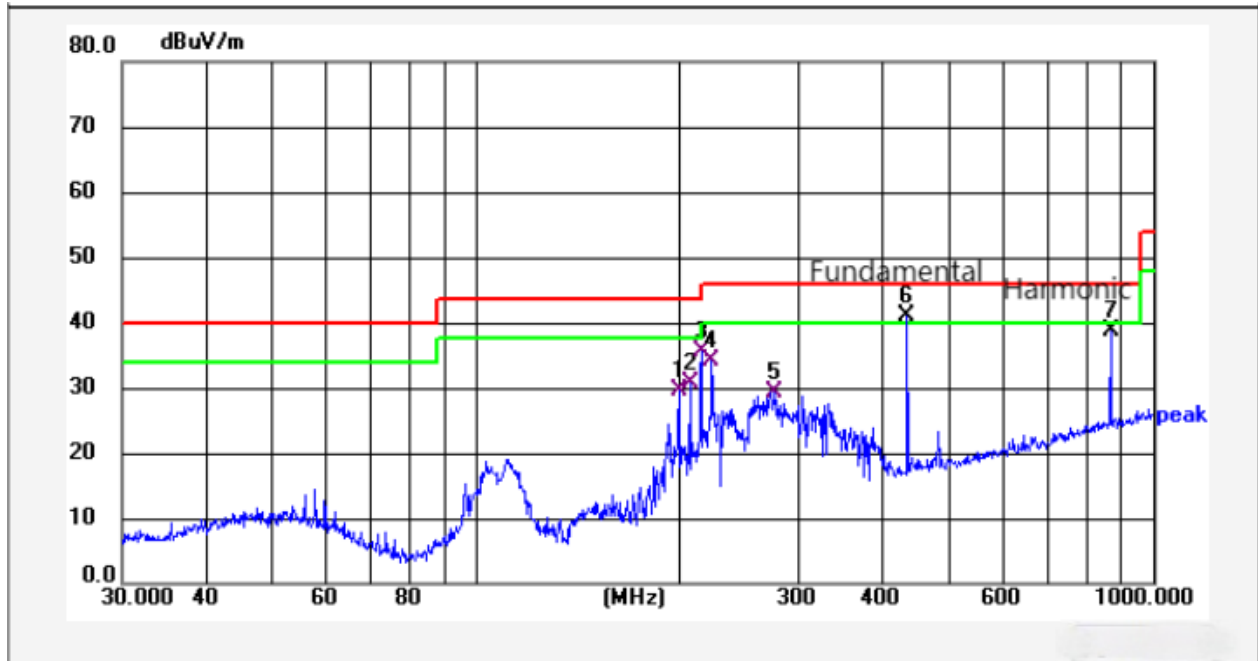
During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.

Test Results (30~1000MHz)

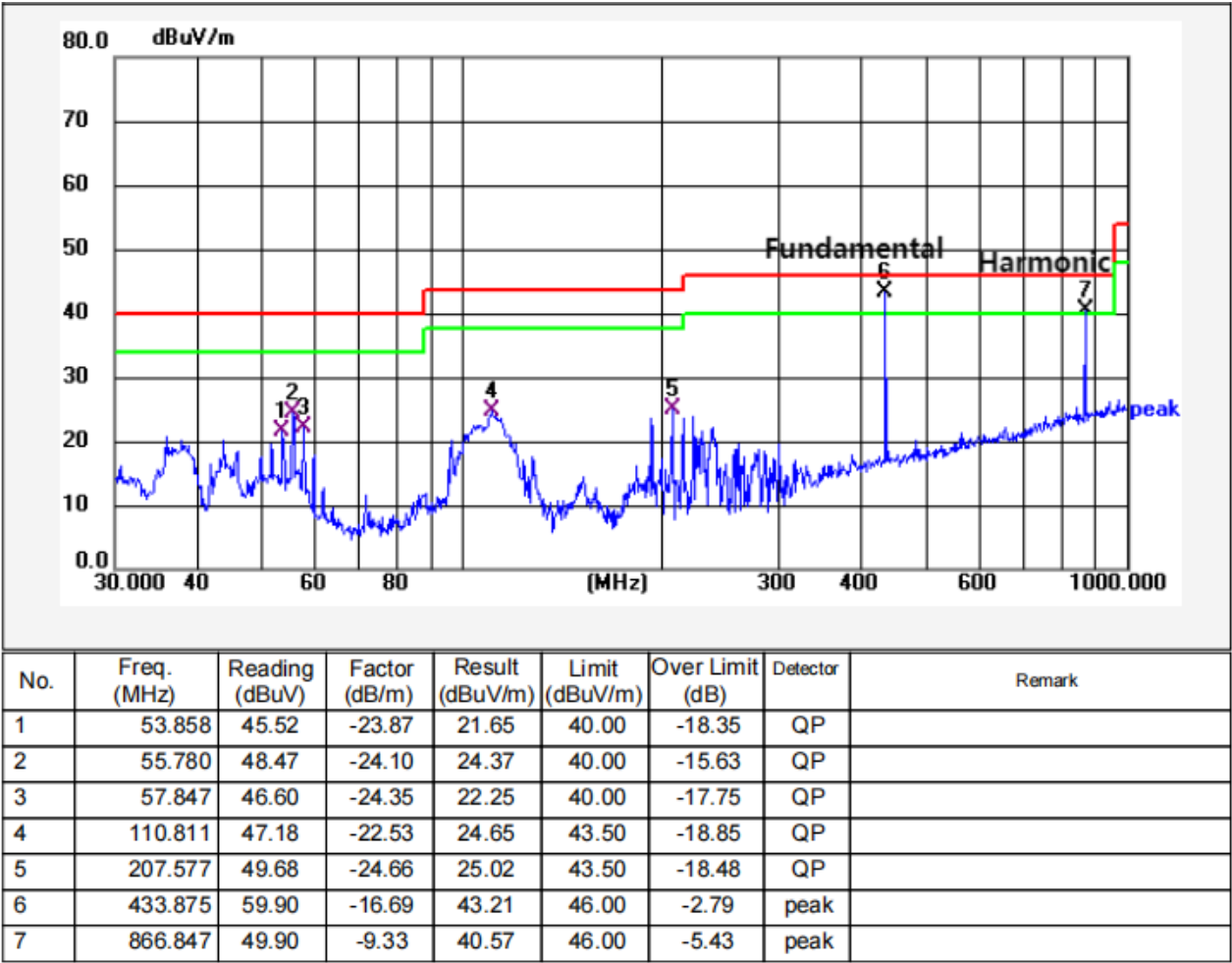
Test Mode: 433.92MHz
Power Source: DC 12V from adapter input AC 120V/60Hz
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 23°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	199.723	53.66	-23.99	29.67	43.50	-13.83	QP	
2	207.668	54.87	-24.04	30.83	43.50	-12.67	QP	
3	215.645	59.64	-24.11	35.53	43.50	-7.97	QP	
4	223.635	58.43	-24.15	34.28	46.00	-11.72	QP	
5	276.487	53.06	-23.72	29.34	46.00	-16.66	QP	
6	433.495	57.59	-16.71	40.88	46.00	-5.12	peak	
7	867.227	48.00	-9.32	38.68	46.00	-7.32	peak	

Test Results (30~1000MHz)

Test Mode: 433.92MHz
Power Source: DC12V
Polarization: DC 12V from adapter input AC 120V/60Hz
Temp.(°C)/Hum.(%RH): 23°C/59%RH



Remark:

1. Results = Reading + Cable Loss +Ant Factor –Amplifier

Test Results (Fundamental)

Test Results (Fundamental)								
Mode	Freq. (MHz)	Antenna Pol.	Reading (dBuV/m)	Factor (dB)	Duty cycle Factor (dB)	Results (dBuV/m)	Limits (dBuV/m)	Det. Mode
TX Mode	433.495	H	57.59	-16.71	--	40.88	100.82	PK
	433.495	H	57.59	-16.71	-6.34	34.54	80.82	AV
	433.495	V	59.90	-16.69	--	43.21	100.82	PK
	433.495	V	59.90	-16.69	-6.34	36.87	80.82	AV
Remark:								
1. Results = Reading + Factor + Duty cycle Factor								

Test Results (Harmonics Emissions+Radiated Emissions)							
Test Mode: 433.92MHz							
Frequency (MHz)	Antenna Pol.	Reading (dBuV/m)	Factor (dB)	Duty cycle Factor (dB)	Results (dBuV/m)	Limits (dBuV/m)	Det. Mode
867.227	H	48.00	-9.32	--	38.68	80.82	PK
867.227	H	48.00	-9.32	-6.34	32.34	60.82	AV
866.847	V	49.90	-9.33	--	40.57	80.82	PK
866.847	V	49.90	-9.33	-6.34	34.23	60.82	AV
1301.71	H	52.18	4.24	--	56.42	74.00	PK
1301.71	H	52.51	4.24	-6.34	50.08	54.00	AV
1301.79	V	51.13	4.24	--	55.37	74.00	PK
1301.79	V	51.64	4.24	-6.34	49.03	54.00	AV
Remark:							
1. Result = Reading + Factor + Duty cycle Factor							
2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.							

Pulse Desensitization Correction Factor

Mode	Freq.(MHz)	Pulse Width (ms)	2/Pulse Width(kHz)
TX Mode	433.92	150	0.0133

Remark:

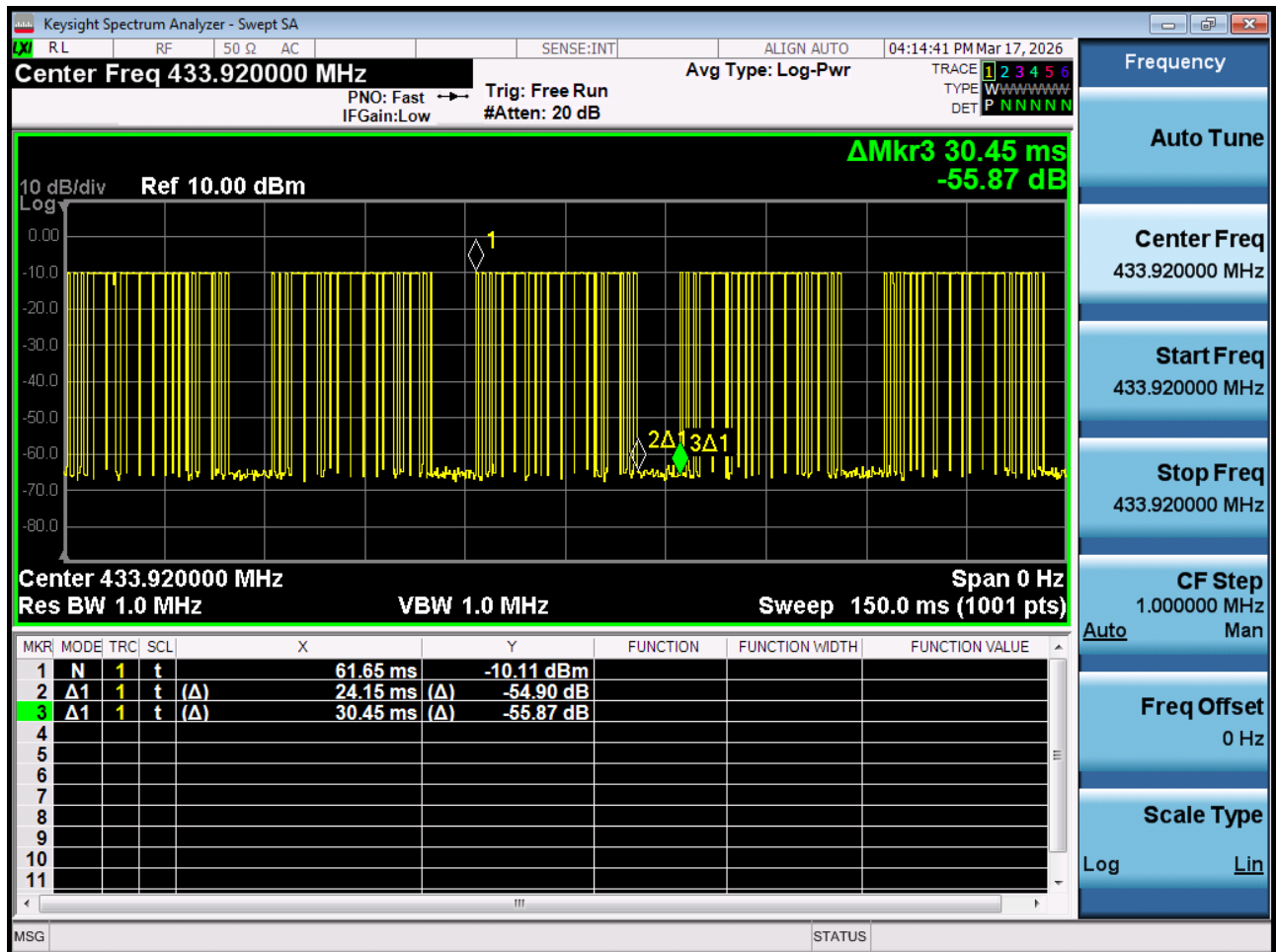
RBW(1000kHz)>2/Pulse Width, Therefore PDCF is not needed.

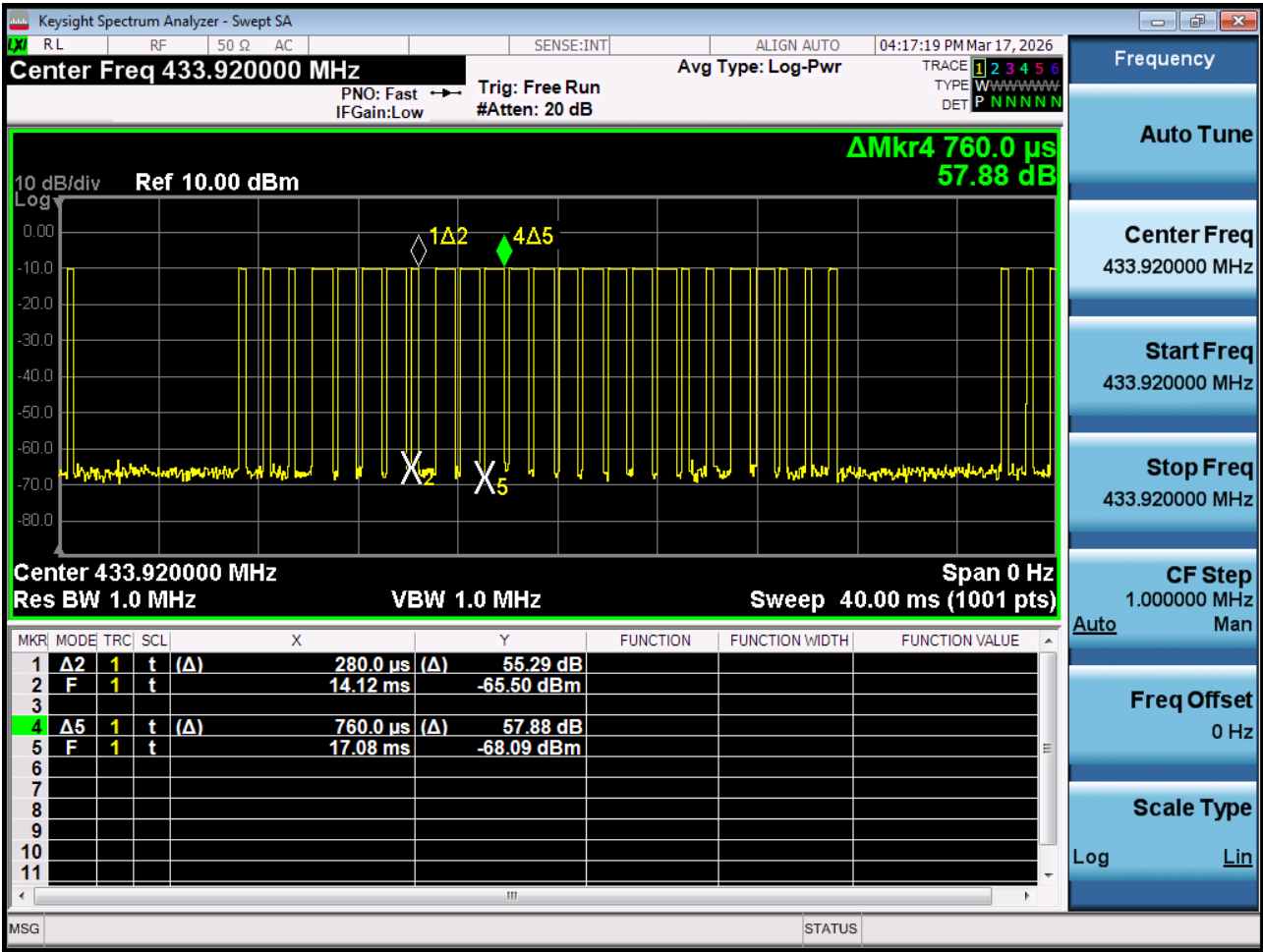
Duty Cycle Factor

Mode	Freq. (MHz)	T on1 (ms)	T on2 (ms)	T period(ms)	Duty Cycle	Duty Cycle Factor
TX Mode	433.92	0.28*9	0.76*16	30.45	48.21%	-6.34

Remark:

1. T on=T on1+T on2
2. Duty Cycle=T on/T period
3. Duty Cycle Factor =20*Ig(Duty Cycle)



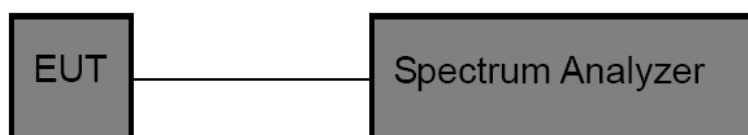


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.231 (c)
Test Limit	According to FCC Part 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.

5.2. Test Setup



5.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
 RBW = 1% to 5% of the OBW, VBW $\geq$ 3*RBW,
 Span= 2*OBW~5*OBW
 Detector= Peak
 Trace mode= Max hold.
 Sweep- auto couple.
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

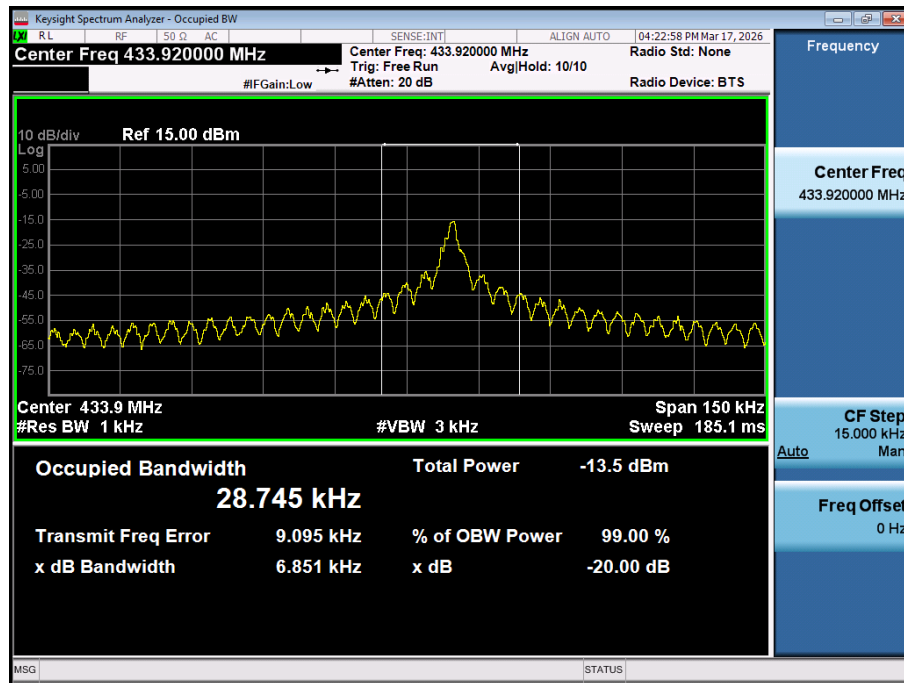
5.4. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Mode	Freq. (MHz)	20DB Bandwidth (kHz)	Limit (kHz)	Results
TX Mode	433.92	6.851	≤1085	PASS

Note: Limit=0.0025*Freq.

433.92 MHz
Plot of 20DB Bandwidth

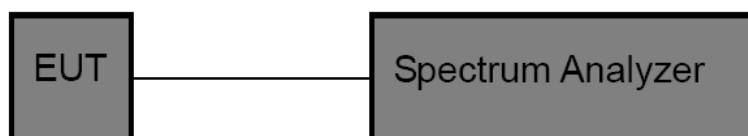


6. Dwell Time Test

6.1. Test Standard and Limit

Test Standard	FCC Part 15.231(e)
Test Limit	Devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

6.2. Test Setup



6.3. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as
RBW=1000kHz, VBW= 1000 kHz, Span= 0Hz, Sweep Time= 20 Seconds.
3. Record the Delta mark time.

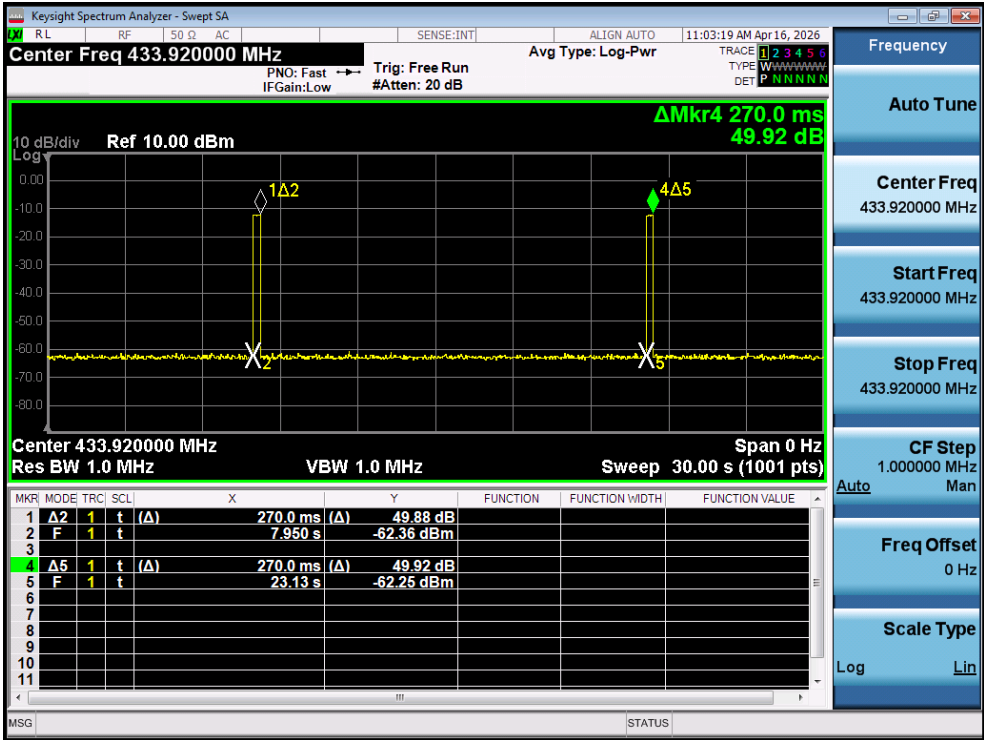
6.4. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Freq (MHz)	Transmission time(s)	Limit (s)	Conclusion
433.92	0.27	< 1s	PASS

Freq (MHz)	Silent time(s)	Limit (s)	Conclusion
433.92	15.18	>10 and > 30*0.27=8.1	PASS

433.92 MHz



7. Antenna Requirement

7.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 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. Antenna requirement must meet at least one of the following: 1) Antenna must be permanently attached to device. 2) The antenna must use a unique type of connector to attach to the device. 3) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device.

7.2. Antenna Connected Construction

The antenna is a RP-SMA antenna used with a unique type of connector. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

