



FCC TEST REPORT

For

Shenzhen Chenxinnuo Electronic Commerce Co., LTD

Walkie Talkies

Test Model: ZX-808

Additional Model No.: Please Refer to Page 6

Prepared for : Shenzhen Chenxinnuo Electronic Commerce Co., LTD
Address : 8C, Block B, Building 1AB, Jingji Yujing Central Phase II, Huanggekeng Community, Longcheng Street, Longgang District, Shenzhen China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : July 18, 2023
Number of tested samples : 1
Sample No. : A071723088-1
Serial number : Prototype
Date of Test : July 18, 2023 ~ August 07, 2023
Date of Report : August 07, 2023



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**FCC TEST REPORT
FCC CFR 47 PART 95****Report Reference No. : LCSA071723088EA**

Date of Issue..... : August 07, 2023

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
Shajing Street, Baoan District, Shenzhen, 518000, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name..... : Shenzhen Chenxinnuo Electronic Commerce Co., LTD**Address..... : 8C, Block B, Building 1AB, Jingji Yujing Central Phase II,
Huanggekeng Community, Longcheng Street, Longgang District,
Shenzhen China**Test Specification**

Standard..... : FCC CFR 47 PART 95

Test Report Form No..... : LCSEMC-1.0

TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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EUT Description..... : Walkie Talkies

Trade Mark..... : N/A

Test Model..... : ZX-808

Ratings..... : Input: DC 5V
DC 3.7V, 1800mAh Li-ion BatteryResult : **Positive****Compiled by:****Supervised by:****Approved by:**

Rory Huang/ Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager



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**FCC -- TEST REPORT**

Test Report No. : LCSA071723088EA	<u>August 07, 2023</u> Date of issue
--	---

Test Model.....	: ZX-808
EUT.....	: Walkie Talkies
Applicant.....	: Shenzhen Chenxinnuo Electronic Commerce Co., LTD 8C, Block B, Building 1AB, Jingji Yujing Central Phase II, Address..... : Huanggekeng Community, Longcheng Street, Longgang District, Shenzhen China Telephone..... : / Fax..... : /
Manufacturer.....	: Shenzhen Chenxinnuo Electronic Commerce Co., LTD 8C, Block B, Building 1AB, Jingji Yujing Central Phase II, Address..... : Huanggekeng Community, Longcheng Street, Longgang District, Shenzhen China Telephone..... : / Fax..... : /
Factory.....	: Shenzhen Chenxinnuo Electronic Commerce Co., LTD 8C, Block B, Building 1AB, Jingji Yujing Central Phase II, Address..... : Huanggekeng Community, Longcheng Street, Longgang District, Shenzhen China Telephone..... : / Fax..... : /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 07, 2023	Initial Issue	---





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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Walkie Talkies
Test Model : ZX-808
Additional Model No. : ZX-818, ZX-828, ZX-838
Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply : Input: DC 5V
DC 3.7V, 1800mAh Li-ion Battery
Hardware Version : V1.0
Software Version : V1.0
Frequency Range : 467.5625MHz~467.7125MHz
462.5500MHz~462.7250MHz
462.5625MHz~462.7125MHz
Channel Number : 22 channels
Test Channel : Channel 1, 14, 22
Channel Spacing : 12.5KHz
Modulation Type : FM
Emission Type : F3E
Rate Power : 0.5W
(It was fixed by the manufacturer, any individual can't arbitrarily change it.)
Antenna Description : Integral antenna, 0dBi (Max.)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
---	ADAPTER	THX-120050KB	--	FCC

Note: Auxiliary equipment is provided by the laboratory.

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
Power Port	1	N/A
MIC Port	1	N/A
Headphone Port	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.



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1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item	Uncertainty	Note
Frequency error	30 Hz	(1)
Transmitter power conducted	0.62 dB	(1)
Transmitter power Radiated	2.67 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.88 dB	(1)
Conducted Emission 9KHz-30MHz	1.63 dB	(1)
Radiated spurious emission 30~1000MHz	4.65 dB	(1)
Radiated spurious emission 1~18GHz	3.89 dB	(1)
Radiated spurious emission 18-40GHz	3.90 dB	(1)
Occupied Bandwidth	35 Hz	(1)
Emission Mask	1.25dB	(1)
Transmitter Frequency Behavior	6.8%	(1)

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



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1.7. Description of Test Modes

The EUT has been tested under typical operating condition. As, test modes selected as below by the technical parameters of the EUT:

Operation Mode	Modulation	Channel Separation	Condition
TM1	FM	12.5KHz	TX

Frequency list:

Channel	Frequency(MHz)	Type	Power
1	462.5625	FRS	0.5W
2	462.5875	FRS	
3	462.6125	FRS	
4	462.6375	FRS	
5	462.6625	FRS	
6	462.6875	FRS	
7	462.7125	FRS	
8	467.5625	FRS	0.5W
9	467.5875	FRS	
10	467.6125	FRS	
11	467.6375	FRS	
12	467.6625	FRS	
13	467.6875	FRS	
14	467.7125	FRS	0.5W
15	462.5500	FRS	
16	462.5750	FRS	
17	462.6000	FRS	
18	462.6250	FRS	
19	462.6500	FRS	
20	462.6750	FRS	
21	462.7000	FRS	
22	462.7250	FRS	

Note1: In section 15.31(m), regards to the operating frequency range less than 1MHz, only one point centered in the frequency range of operation selected to measure.

Note2: The line display in grey was the channel selected for test.



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2. TEST METHODOLOGY

2.1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 95](#): PERSONAL RADIO SERVICES.

[ANSI/TIA-603-E-2016](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[ANSI C63.10: 2013](#): American National Standard for Testing Unlicensed Wireless Devices

[ANSI C63.4: 2014](#): American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

2.2. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.3. EUT Exercise

The EUT has been tested under typical operating condition and The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.4. General Test Procedures

2.4.1 Conducted Emissions

N/A

2.4.2 Radiated Emissions

The EUT is placed on a turntable, which is directly placed on the ground. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013

2.5. Test Sample

The application provides 1 samples to meet requirement;

Sample Number	Description
Sample 1(A071723088-1)	Engineer sample – continuous transmit



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3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

N/ A

3.3. Special Accessories

N/ A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.



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4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 95				
FCC Rules	Description of Test	Test Sample	Result	Remark
FCC Part 2.1046 FCC Part 95.567	Maximum Transmitter Power	Sample 1	Compliant	Note 1
FCC Part 2.1047 FCC Part 95.575	Modulation Characteristic	Sample 1	Compliant	Note 1
FCC Part 2.1049 FCC Part 95.573 FCC Part 95.579	Occupied Bandwidth and Emission Mask	Sample 1	Compliant	Note 1
FCC Part 2.1053 FCC Part 95.579	Radiated Spurious Emission	Sample 1	Compliant	Note 1
FCC Part 2.1055 (d) FCC Part 95.565	Frequency Stability	Sample 1	Compliant	Note 1
FCC Part 2.1093	RF Exposure	Sample 1	Compliant	Note 2

Remark:

1. Note 1 – Test results inside test report;
2. Note 2 – Test results in other test report (SAR Report);



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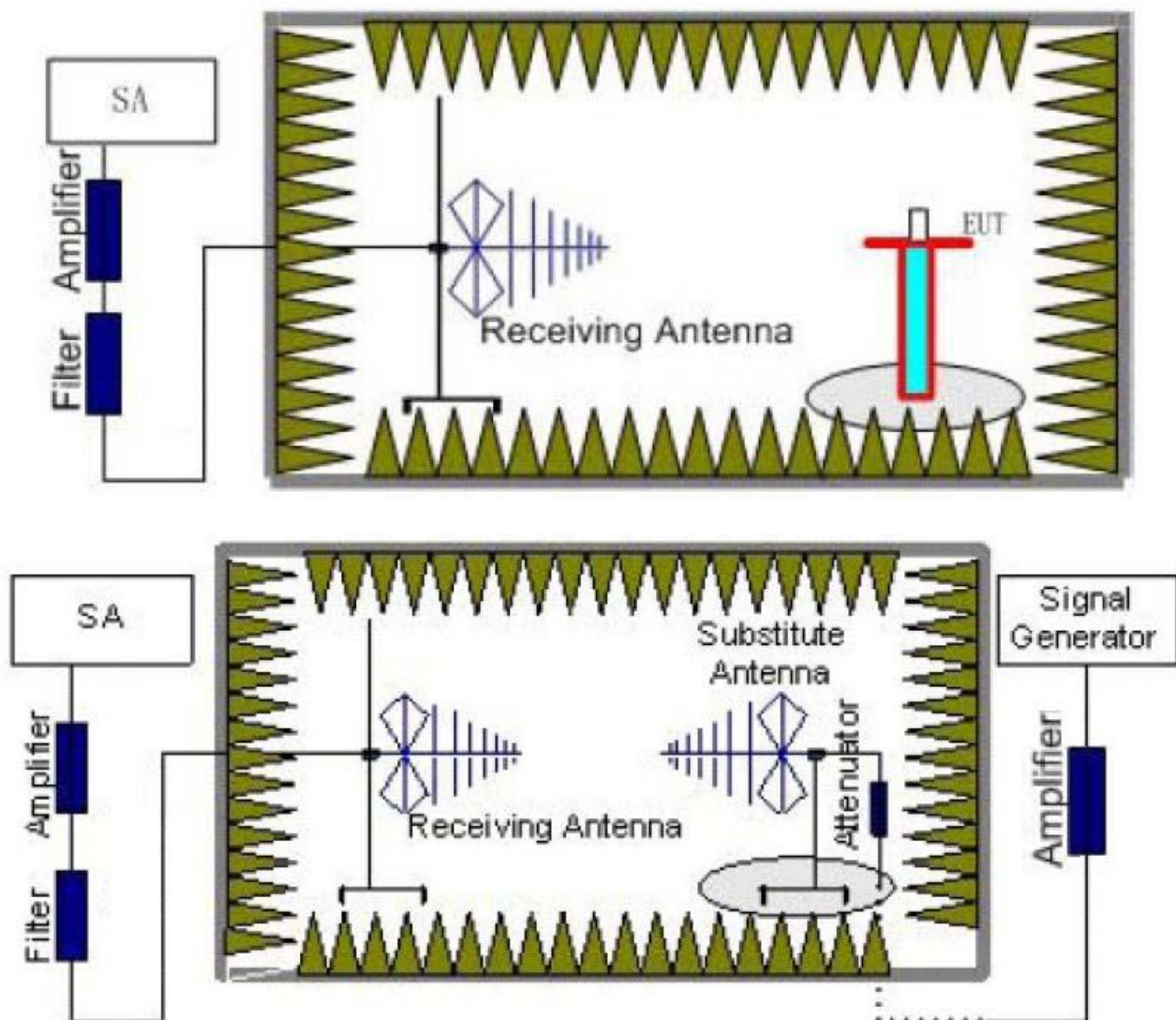
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5. MEASUREMENT RESULTS

5.1. Maximum Transmitter Power

5.1.1 Block Diagram of Test Setup



5.1.2 Limit

According to FCC Part 95.567:

Each FRS transmitter type must be designed such that the effective radiated power (ERP) on channels 8 through 14 does not exceed 0.5 Watts and the ERP on channels 1 through 7 and 15 through 22 does not exceed 2.0 Watts.

5.1.3 Test Procedure

1. EUT was placed on a 1.5meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all test transmit frequencies were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the



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same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, and the maximum value of the receiver should be recorded as (P_r).
4. The EUT shall be replaced by a substitution antenna. In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
5. An amplifier may be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.
The measurement results are obtained as described below:
$$\text{Power (EIRP)} = P_{Mea} + P_{Ag} - P_{cl} + G_a$$
6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dBi) and known input power.
7. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

5.1.4 Test Results

Temperature	23.5°C	Humidity	52.4%
Test Engineer	Jack Cheng	Test Voltage	Normal Voltage

Test Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain (dBi)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	ERP (W)	Polarization	Limit (W)
462.5625	-11.55	2.08	7.69	2.15	34.59	26.50	0.447	V	2.0
462.5625	-11.48	2.08	7.69	2.15	34.59	26.57	0.454	H	2.0
462.7250	-11.34	2.08	7.69	2.15	34.59	26.71	0.469	V	2.0
462.7250	-11.43	2.08	7.69	2.15	34.59	26.62	0.459	H	2.0
467.7125	-11.45	2.08	7.69	2.15	34.59	26.60	0.457	V	0.5
467.7125	-11.39	2.08	7.69	2.15	34.59	26.66	0.463	H	0.5

Remark:

1. $EIRP = P_{Mea}(\text{dBm}) + P_{Ag}(\text{dB}) - P_{cl}(\text{dB}) + G_a(\text{dBi})$
2. $ERP = EIRP - 2.15\text{dBi}$ as EIRP by subtracting the gain of the dipole.
3. The field strength of radiation emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The data show in this report only with the worst case setup. After exploratory measurement the worst case of Z axis and receiver antenna at vertical polarization was reported.



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5.2. Occupied Bandwidth and Emission Mask

5.2.1 Limit

According to FCC 95.573:

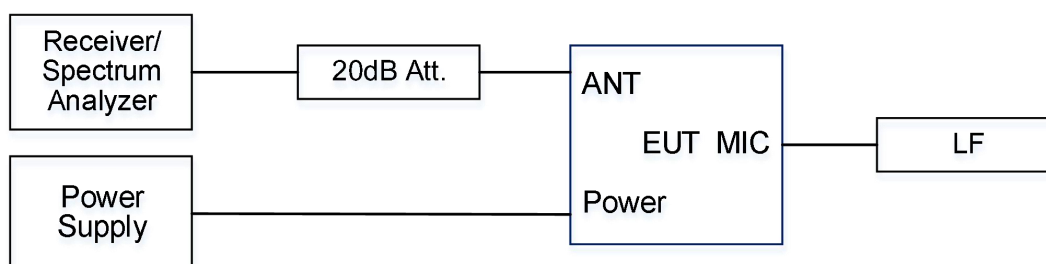
Each FRS transmitter type must be designed such that the occupied bandwidth does not exceed 12.5kHz.

According to FCC 95.579:

Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:

- (1) 25 dB (decibels) in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.
- (2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency.
- (3) $43 + 10 \log(P)$ dB in any frequency band removed from the channel center frequency by more than 31.25 kHz.

5.2.2 Block Diagram of Test Setup



5.2.3 Test Procedure

1. The EUT was modulated by 2.5 KHz Sine wave audio signal; the level of the audio signal employed is 16 dB greater than that necessary to produce 50% of rated system deviation. Rated system deviation is 2.5 kHz (12.5 kHz channel bandwidth) and 5 kHz (25 kHz channel bandwidth).
2. Set SPA Center Frequency = fundamental frequency, RBW=300Hz, VBW=3KHz, span =50KHz.
3. Set SPA Max hold. Mark peak, Set 99% Occupied Bandwidth and 26dB Occupied Bandwidth.

5.2.4 Test Results

Temperature	23.5℃	Humidity	52.4%
Test Engineer	Jack Cheng	Test Voltage	Normal Voltage

Occupied Bandwidth:

Emission Type	Frequency (MHz)	99% OBW (kHz)	26dB bandwidth (kHz)	Limit (KHz)	Result
F3E	462.5625	4.909	5.359	12.5	Pass
F3E	462.7250	4.911	5.357	12.5	Pass
F3E	467.7125	4.912	5.354	12.5	Pass

Emission Designator

Per CFR 47 §2.201& §2.202, $BW = 2M + 2D$ for FM Mode (channel bandwidth: 12.5 kHz)

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0$

F3E portion of the designator represents an FM voice transmission

Therefore, the entire designator for 12.5 kHz channel bandwidth FM mode is 11K0F3E.



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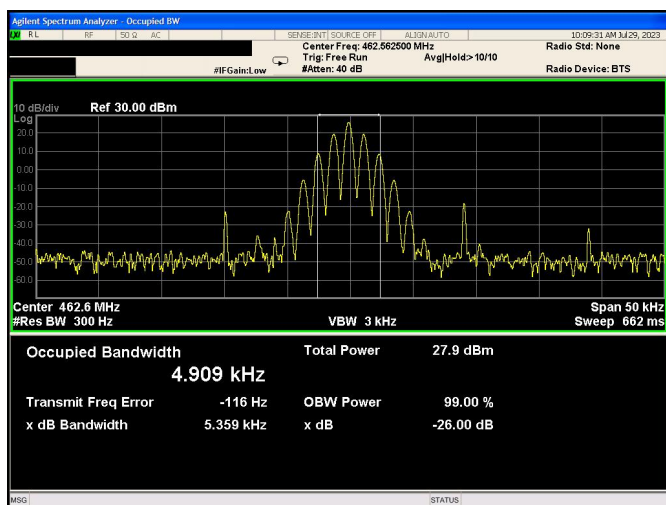
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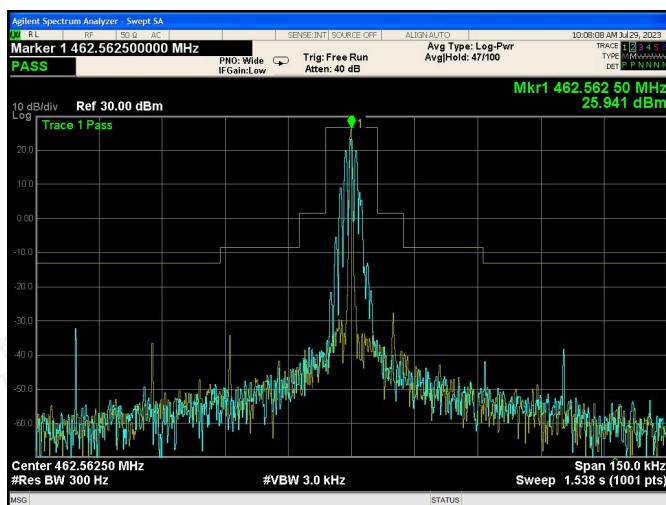
Please refer to following page.

Test Plot of Occupied Bandwidth and Emission Mask

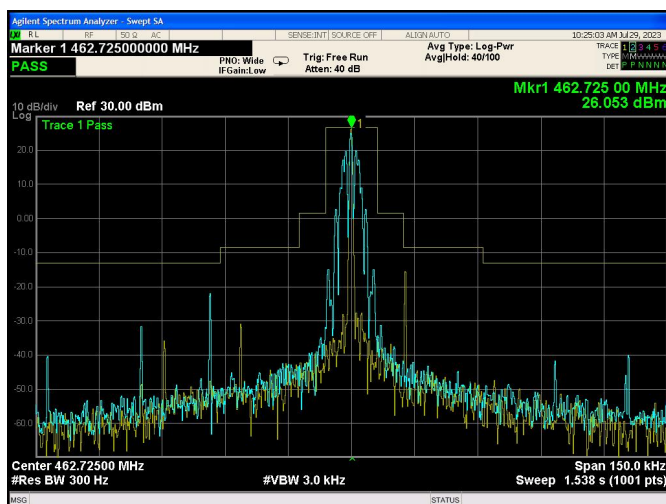
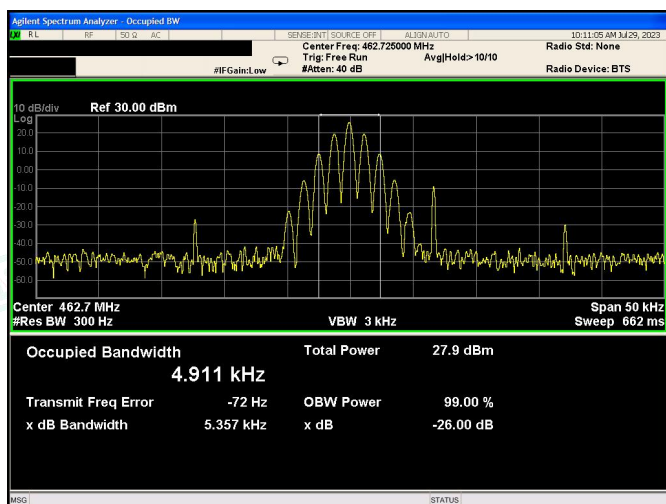
Occupied Bandwidth



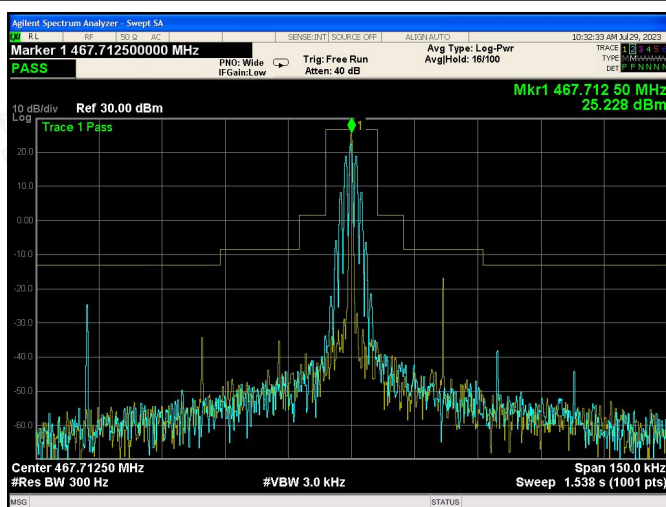
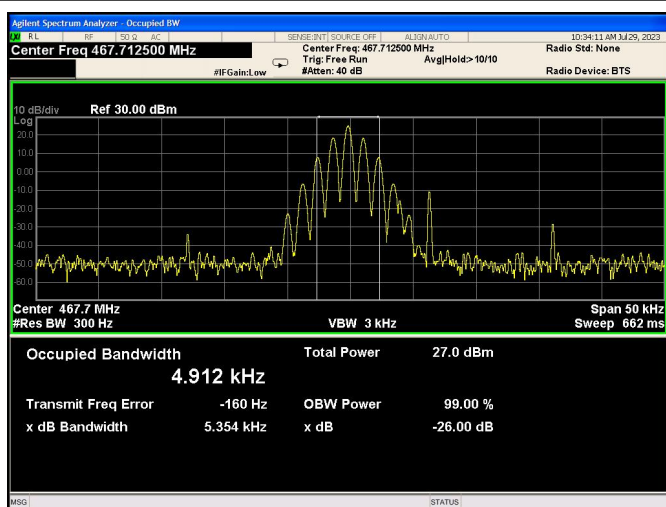
Emission Mask



Channel 1: 462.5625MHz



Channel 22: 462.7250MHz



Channel 14: 467.7125MHz



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5.3. Modulation Characteristic

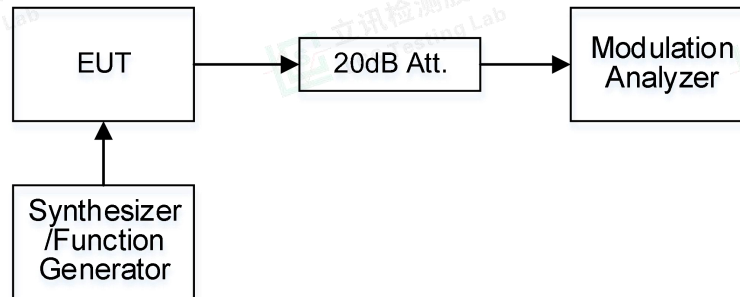
5.3.1 Limit

According to CFR47 section 2.1047(a), for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

According to FCC 95.575:

Each FRS transmitter type must be designed such that the peak frequency deviation does not exceed 2.5 kHz, and the highest audio frequency contributing substantially to modulation must not exceed 3.125 kHz.

5.3.2 Block Diagram of Test Setup



5.3.3 Test Procedure

According to ANSI/TIA-603-E-2016



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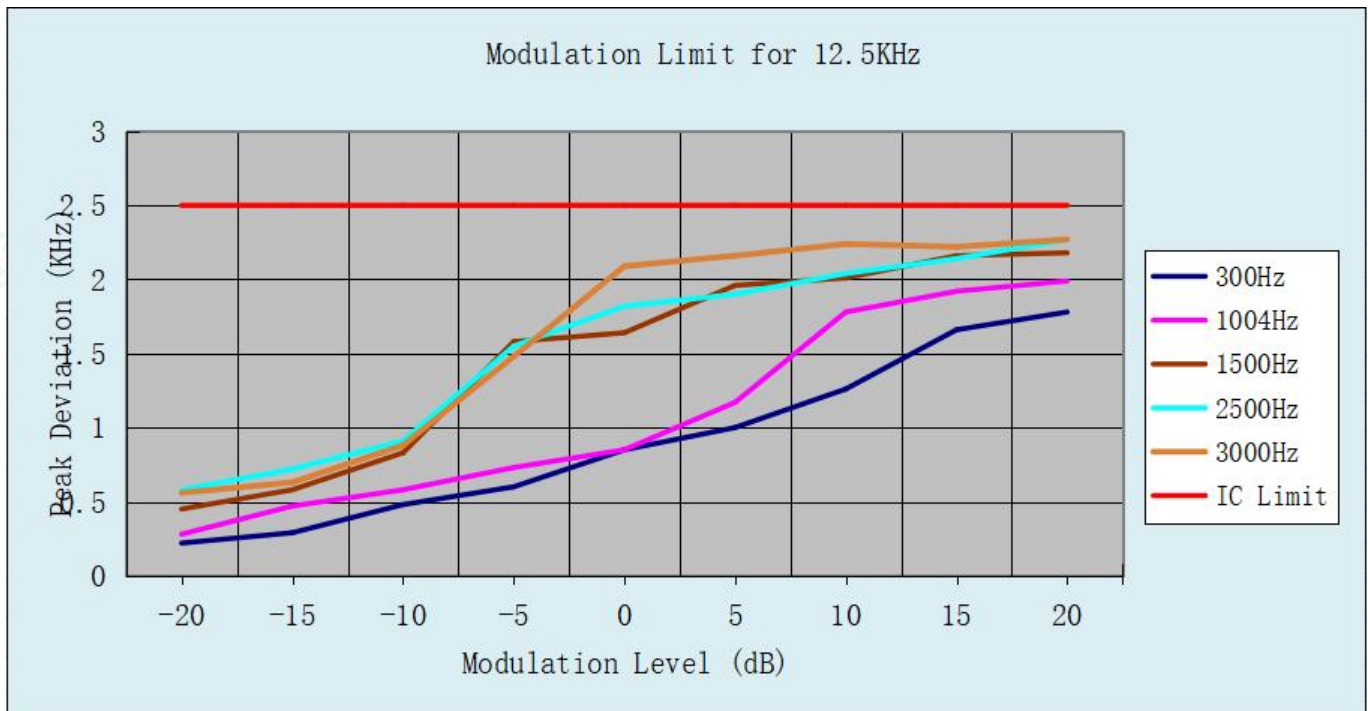


5.3.4 Test Results

Temperature	23.5℃	Humidity	52.4%
Test Engineer	Jack Cheng	Test Voltage	Normal Voltage

Modulation Limit:

Channel 1: 462.5625MHz					
Modulation Level (dB)	Peak Freq. Deviation At 300Hz (KHz)	Peak Freq. Deviation At 1004Hz (KHz)	Peak Freq. Deviation At 1500Hz (KHz)	Peak Freq. Deviation At 2500Hz (KHz)	Peak Freq. Deviation At 3000Hz (KHz)
-20	0.22	0.28	0.45	0.58	0.56
-15	0.29	0.47	0.58	0.72	0.63
-10	0.48	0.58	0.83	0.91	0.88
-5	0.60	0.73	1.58	1.55	1.48
0	0.85	0.85	1.64	1.82	2.09
+5	1.00	1.17	1.96	1.90	2.16
+10	1.26	1.78	2.01	2.04	2.24
+15	1.66	1.92	2.16	2.14	2.22
+20	1.78	1.99	2.18	2.27	2.27



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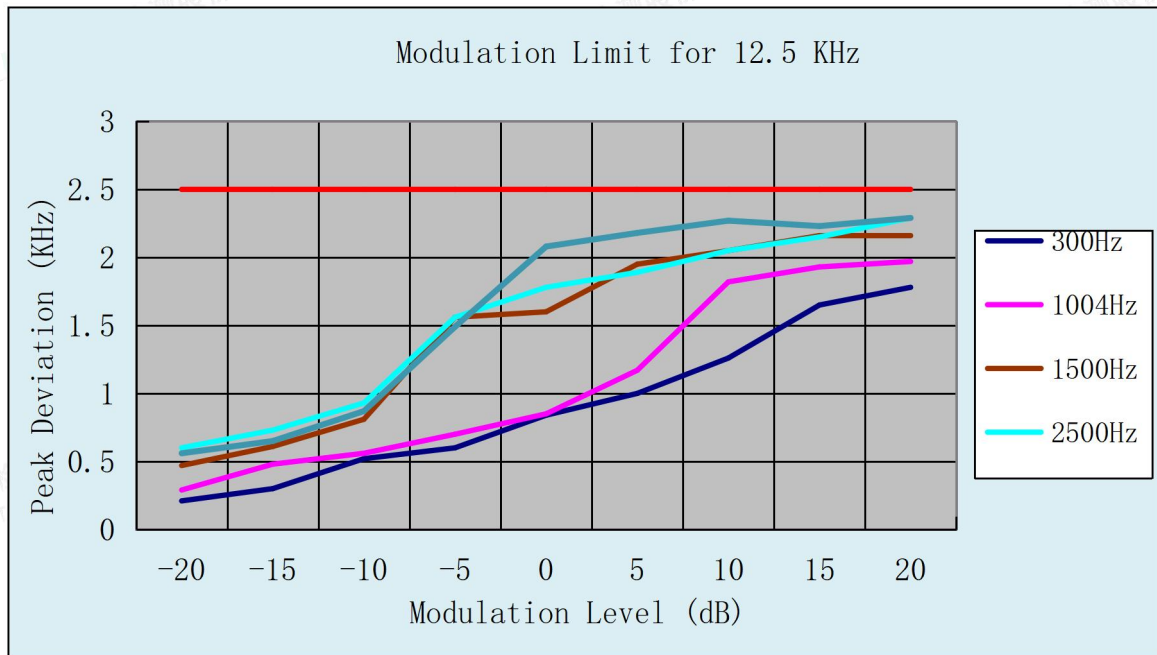
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Channel 14: 467.7125MHz					
Modulation Level (dB)	Peak Freq. Deviation At 300Hz (KHz)	Peak Freq. Deviation At 1004Hz (KHz)	Peak Freq. Deviation At 1500Hz (KHz)	Peak Freq. Deviation At 2500Hz (KHz)	Peak Freq. Deviation At 3000Hz (KHz)
-20	0.21	0.29	0.47	0.60	0.56
-15	0.30	0.48	0.61	0.73	0.65
-10	0.52	0.56	0.81	0.93	0.87
-5	0.60	0.70	1.56	1.56	1.49
0	0.84	0.85	1.60	1.78	2.08
+5	1.00	1.17	1.95	1.89	2.18
+10	1.26	1.82	2.05	2.05	2.27
+15	1.65	1.93	2.16	2.15	2.23
+20	1.78	1.97	2.16	2.29	2.29



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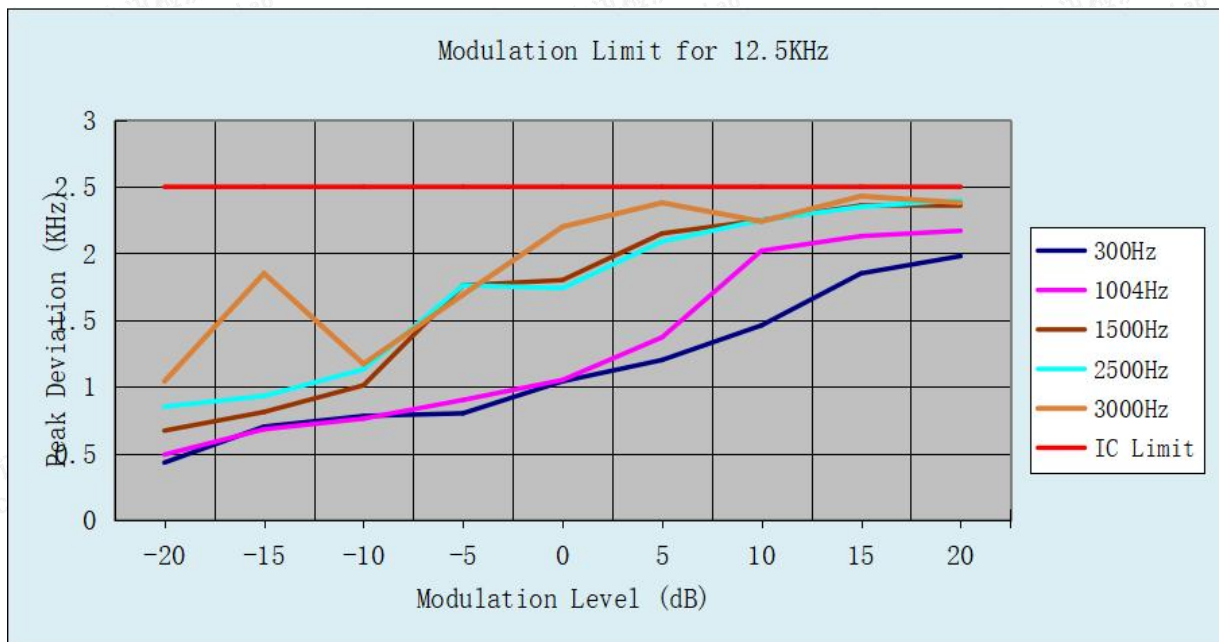
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Channel 22: 462.7250MHz					
Modulation Level (dB)	Peak Freq. Deviation At 300Hz (KHz)	Peak Freq. Deviation At 1004Hz (KHz)	Peak Freq. Deviation At 1500Hz (KHz)	Peak Freq. Deviation At 2500Hz (KHz)	Peak Freq. Deviation At 3000Hz (KHz)
-20	0.43	0.49	0.67	0.85	1.04
-15	0.7	0.68	0.81	0.93	1.85
-10	0.78	0.76	1.01	1.13	1.17
-5	0.8	0.9	1.76	1.76	1.69
0	1.04	1.05	1.8	1.74	2.2
+5	1.2	1.37	2.15	2.09	2.38
+10	1.46	2.02	2.25	2.25	2.24
+15	1.85	2.13	2.36	2.35	2.43
+20	1.98	2.17	2.36	2.40	2.38



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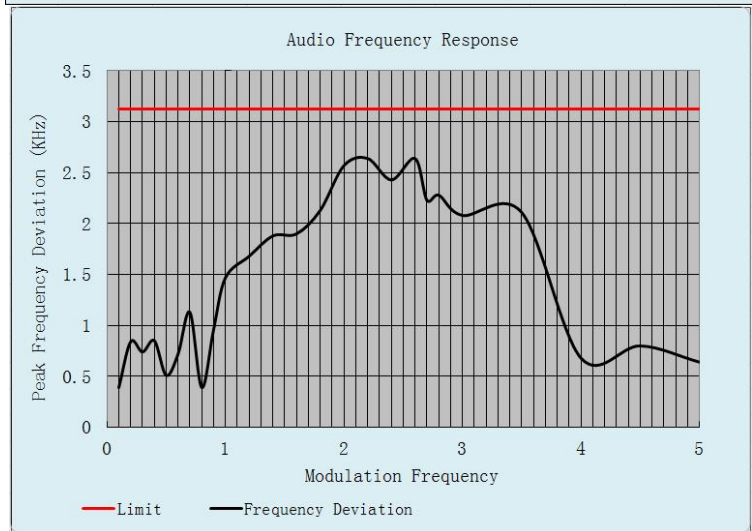
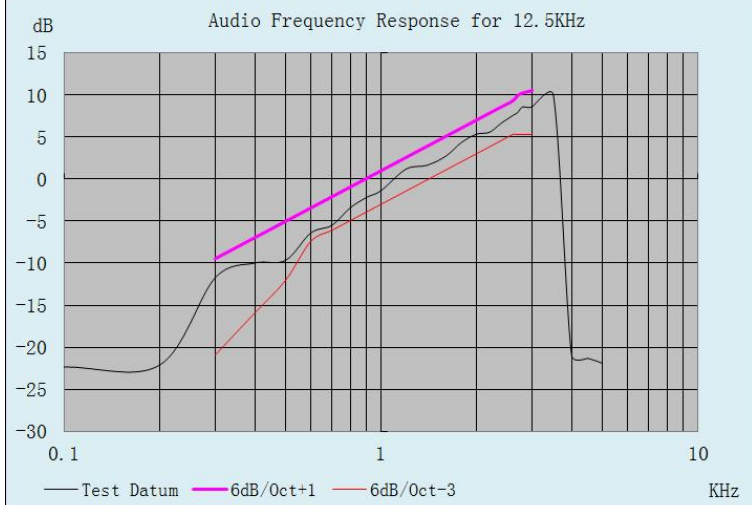
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Audio Frequency Response:

Channel 1: 462.5625MHz

Modulation Frequency (Hz)	Peak Freq. Deviation (KHz)	Audio Frequency Response (dB)	Limit (KHz)
100	0.39	-22.34	3.125
200	0.84	-22.14	3.125
300	0.74	-11.73	3.125
400	0.85	-9.98	3.125
500	0.51	-9.66	3.125
600	0.72	-6.42	3.125
700	1.13	-5.50	3.125
800	0.39	-3.41	3.125
900	0.96	-2.18	3.125
1000	1.47	-1.38	3.125
1200	1.68	1.19	3.125
1400	1.88	1.65	3.125
1600	1.90	2.71	3.125
1800	2.13	4.40	3.125
2000	2.57	5.35	3.125
2200	2.64	5.58	3.125
2400	2.43	6.68	3.125
2600	2.64	7.54	3.125
2700	2.23	7.93	3.125
2800	2.28	8.59	3.125
3000	2.08	8.59	3.125
3500	2.11	10.00	3.125
4000	0.68	-21.03	3.125
4500	0.80	-21.32	3.125
5000	0.64	-21.91	3.125



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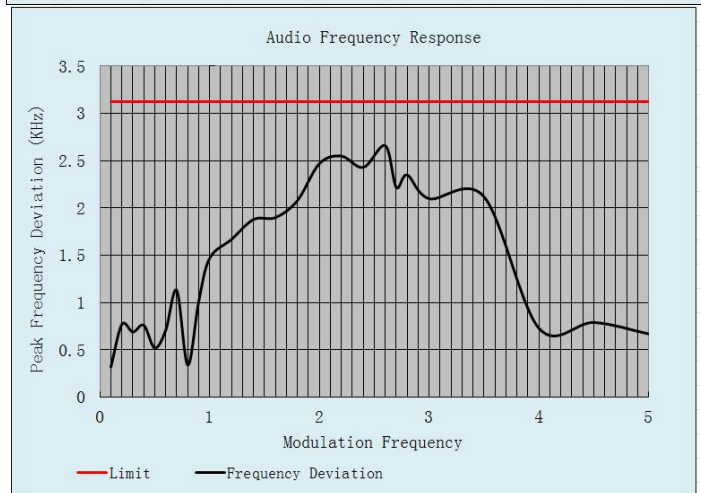
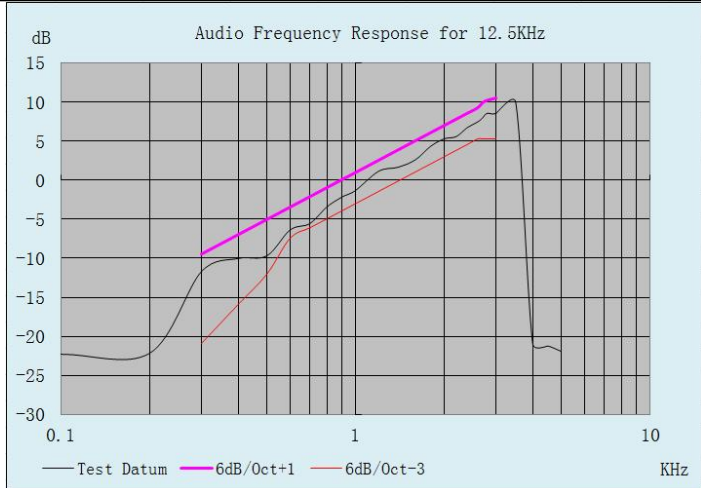
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Channel 14: 467.7125MHz

Modulation Frequency (Hz)	Peak Freq. Deviation (KHz)	Audio Frequency Response (dB)	Limit (KHz)
100	0.32	-22.29	3.125
200	0.77	-22.18	3.125
300	0.69	-11.71	3.125
400	0.76	-10.02	3.125
500	0.52	-9.69	3.125
600	0.71	-6.37	3.125
700	1.13	-5.55	3.125
800	0.34	-3.41	3.125
900	1.01	-2.15	3.125
1000	1.47	-1.31	3.125
1200	1.67	1.17	3.125
1400	1.88	1.68	3.125
1600	1.90	2.64	3.125
1800	2.08	4.36	3.125
2000	2.47	5.32	3.125
2200	2.55	5.60	3.125
2400	2.43	6.77	3.125
2600	2.66	7.48	3.125
2700	2.22	8.00	3.125
2800	2.35	8.58	3.125
3000	2.10	8.57	3.125
3500	2.12	9.98	3.125
4000	0.73	-21.01	3.125
4500	0.79	-21.24	3.125
5000	0.67	-21.94	3.125



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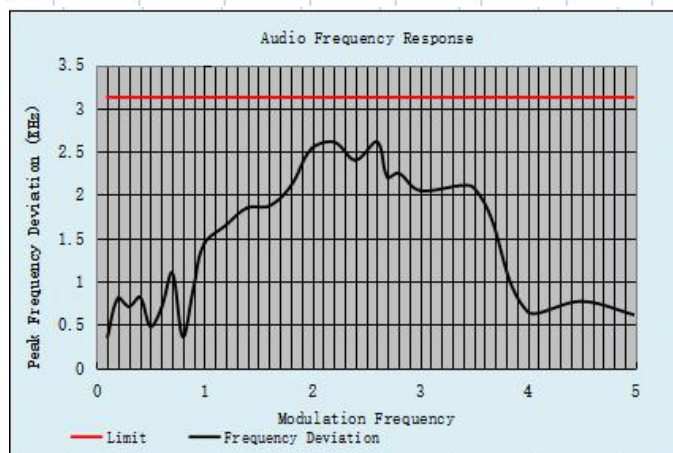
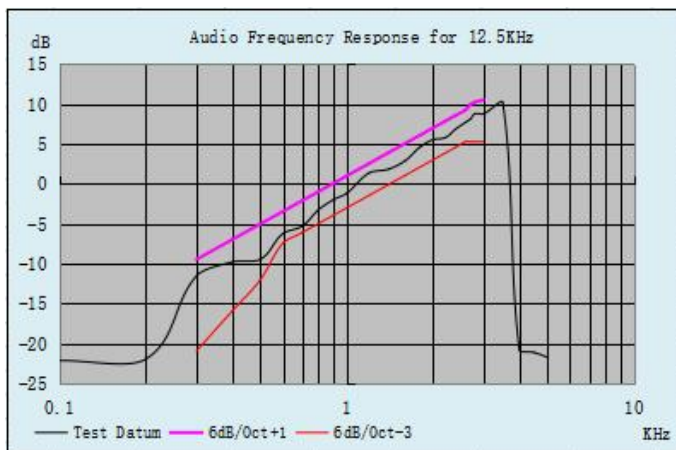
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Channel 22: 462.7250MHz

Modulation Frequency (Hz)	Peak Frequency Deviation (KHz)	Audio Frequency Response (dB)	Limit (KHz)
100	0.36	-22.14	3.125
200	0.81	-21.94	3.125
300	0.71	-11.53	3.125
400	0.82	-9.78	3.125
500	0.48	-9.46	3.125
600	0.69	-6.22	3.125
700	1.1	-5.3	3.125
800	0.36	-3.21	3.125
900	0.93	-1.98	3.125
1000	1.44	-1.18	3.125
1200	1.65	1.39	3.125
1400	1.85	1.85	3.125
1600	1.87	2.91	3.125
1800	2.1	4.6	3.125
2000	2.54	5.55	3.125
2200	2.61	5.78	3.125
2400	2.4	6.88	3.125
2600	2.61	7.74	3.125
2700	2.2	8.13	3.125
2800	2.25	8.79	3.125
3000	2.05	8.79	3.125
3500	2.08	10.2	3.125
4000	0.65	-20.83	3.125
4500	0.77	-21.12	3.125
5000	0.61	-21.71	3.125



Note: All the modes had been tested, but only the worst data recorded in the report.



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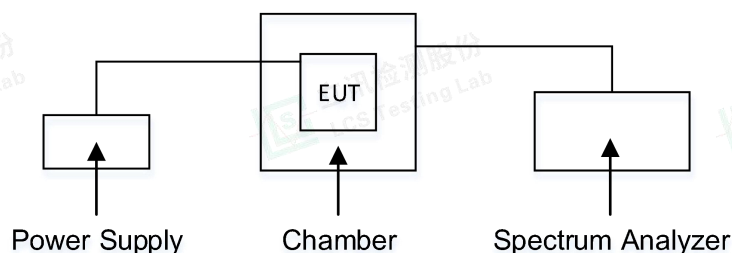
5.4. Frequency Stability

5.4.1 Limit

According to FCC 95.565

Each FRS transmitter type must be designed such that the carrier frequencies remain within ± 2.5 parts-per-million of the channel center frequencies specified in §95.563 during normal operating conditions.

5.4.2 Block Diagram of Test Setup



5.4.3 Test Procedure

The EUT was set in the climate chamber and connected to an external DC power supply. The RF output was directly connected to Spectrum Analyzer. The coupling loss of the additional cables was recorded and taken in account for all the measurements. After temperature stabilization (approx. 20 min for each stage), the frequency for the lower, the middle and the highest frequency range was recorded. For Frequency stability Vs. Voltage the EUT was connected to a DC power supply and the voltage was adjusted in the required ranges. The result was recorded.



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5.4.4 Test Results

Temperature	23.5℃	Humidity	52.4%
Test Engineer	Jack Cheng	Test Voltage	Normal Voltage

Reference Frequency: 462.5625MHz					
Voltage (V)	Temperature (℃)	Frequency error (Hz)	Frequency Tolerance (ppm)	Limit (ppm)	Result
3.7	-20	587	1.28	2.5	Pass
	-10	582	1.23		
	0	607	1.28		
	10	292	0.67		
	20	441	0.95		
	30	358	0.73		
	40	605	1.30		
	50	256	0.52		
4.05	25	450	0.95	2.5	Pass
3.33	25	206	0.47		

Reference Frequency: 462.7125MHz					
Voltage (V)	Temperature (℃)	Frequency error (Hz)	Frequency Tolerance (ppm)	Limit (ppm)	Result
3.7	-20	572	1.24	2.5	Pass
	-10	559	1.19		
	0	515	1.11		
	10	376	0.85		
	20	282	0.59		
	30	306	0.63		
	40	601	1.29		
	50	415	0.90		
4.05	25	441	0.92	2.5	Pass
3.33	25	447	0.93		

Reference Frequency: 467.7125MHz					
Voltage (V)	Temperature (℃)	Frequency error (Hz)	Frequency Tolerance (ppm)	Limit (ppm)	Result
3.7	-20	509	1.03	2.5	Pass
	-10	447	0.95		
	0	552	1.19		
	10	286	0.61		
	20	228	0.51		
	30	329	0.69		
	40	480	1.04		
	50	383	0.82		
4.05	25	321	0.66	2.5	Pass
3.33	25	408	0.87		



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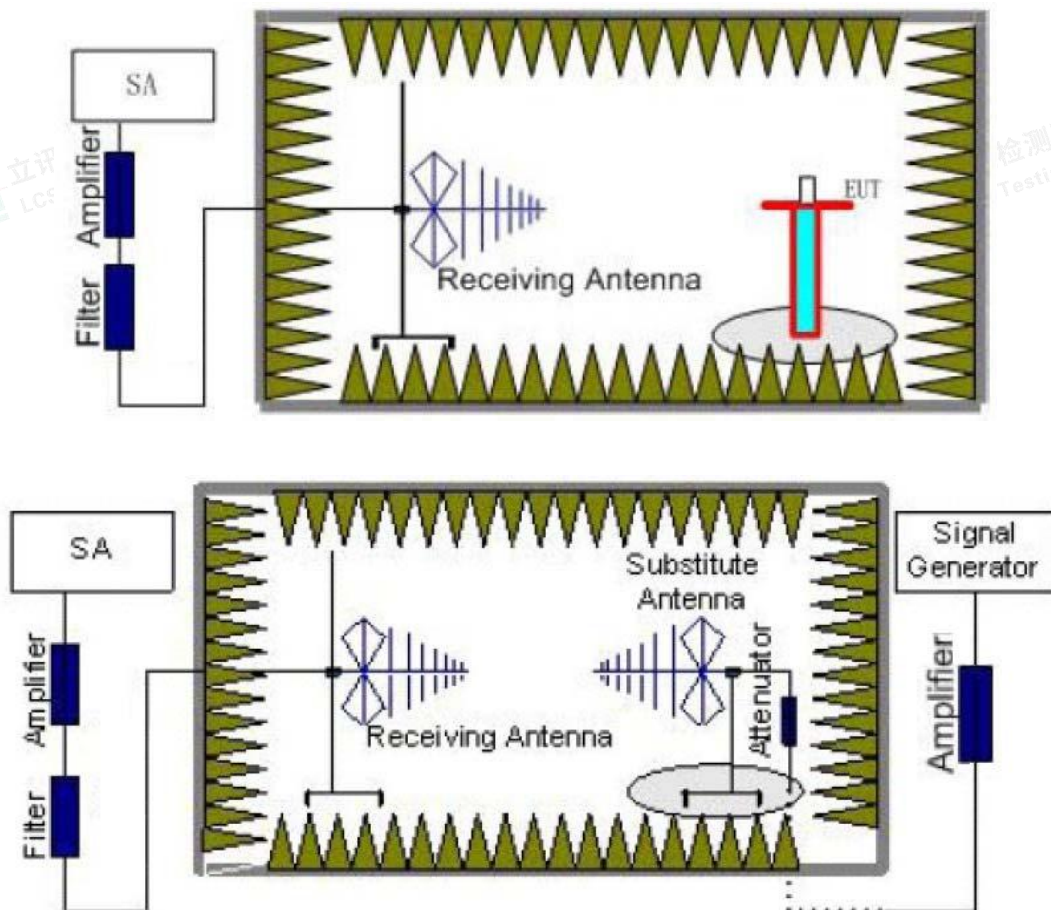


5.5. Transmitter Radiated Spurious Emission

5.5.1 Limit

According to FCC section 95.579, At least $43 + 10 \log (\text{Transmit Power})$ dB on any frequency band removed from the channel center frequency by more than 31.25 kHz.

5.5.2 Block Diagram of Test Setup



5.5.3 Test Procedure

- EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all test transmit frequencies were measured with peak detector.
- A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum 100 kHz below 1GHz and 1MHz above 1GHz, Sweep from 30MHz to the 10th harmonic of the fundamental frequency; and recorded the level of the concerned spurious emission point as (P_r).
- The EUT then replaced by a substitution antenna. In the chamber, a substitution antenna for the



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frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{cl} + G_a$$

Where;

P_{Mea} is the recorded signal generator level

P_{cl} is the cable loss connect between instruments

G_a Substitution Antenna Gain

- e. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dBi) and known input power.
- f. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.
- g. Test site anechoic chamber refer to ANSI C63.10.

5.5.4 Test Results

Temperature	23.5°C	Humidity	52.4%
Test Engineer	Jack Cheng	Test Voltage	Normal Voltage

Test Frequency (MHz)	Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance (m)	G_a Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Pol.
462.5625	548.31	-32.24	2.14	3.00	10.49	-23.89	-13.00	10.89	V
	667.37	-33.39	2.68	3.00	10.84	-25.23	-13.00	12.23	V
	755.54	-35.84	2.88	3.00	11.68	-27.04	-13.00	14.04	V
	835.32	-35.95	3.16	3.00	11.99	-27.12	-13.00	14.12	V
	935.37	-36.07	3.34	3.00	12.53	-26.88	-13.00	13.88	V
	957.38	-37.82	3.54	3.00	12.87	-28.49	-13.00	15.49	V
462. 5625	548.30	-32.23	2.14	3.00	10.49	-23.88	-13.00	10.88	H
	667.44	-33.40	2.68	3.00	10.84	-25.24	-13.00	12.24	H
	755.50	-35.82	2.88	3.00	11.68	-27.02	-13.00	14.02	H
	835.29	-35.92	3.16	3.00	11.99	-27.09	-13.00	14.09	H
	935.39	-36.09	3.34	3.00	12.53	-26.90	-13.00	13.90	H
	957.45	-37.75	3.54	3.00	12.87	-28.42	-13.00	15.42	H

Test Frequency (MHz)	Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Distance (m)	G_a Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Pol.
462.5625	1382.21	-37.60	4.09	3.00	15.27	-26.45	-13.00	13.45	V
	1402.86	-37.15	4.21	3.00	15.48	-25.86	-13.00	12.86	V
	1870.26	-39.21	4.52	3.00	17.32	-26.34	-13.00	13.34	V
	2338.45	-43.79	5.24	3.00	18.37	-30.67	-13.00	17.67	V
	2383.62	-43.26	5.19	3.00	18.76	-29.68	-13.00	16.68	V
	2349.43	-43.50	5.36	3.00	18.29	-30.58	-13.00	17.58	V
462. 5625	1382.26	-37.66	4.09	3.00	15.27	-26.48	-13.00	13.48	H
	1402.82	-37.11	4.21	3.00	15.48	-25.84	-13.00	12.84	H
	1870.27	-39.12	4.52	3.00	17.32	-26.32	-13.00	13.32	H
	2338.41	-43.78	5.24	3.00	18.37	-30.65	-13.00	17.65	H
	2383.58	-43.28	5.19	3.00	18.76	-29.71	-13.00	16.71	H
	2349.41	-43.42	5.36	3.00	18.29	-30.49	-13.00	17.49	H



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Test Frequency (MHz)	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance (m)	G _a Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Pol.
467.7125	548.34	-32.27	2.14	3.00	10.49	-23.92	-13.00	10.92	V
	667.38	-33.43	2.68	3.00	10.84	-25.27	-13.00	12.27	V
	755.57	-35.83	2.88	3.00	11.68	-27.03	-13.00	14.03	V
	835.36	-35.95	3.16	3.00	11.99	-27.12	-13.00	14.12	V
	935.41	-36.05	3.34	3.00	12.53	-26.86	-13.00	13.86	V
	957.45	-37.82	3.54	3.00	12.87	-28.49	-13.00	15.49	V
467.7125	548.36	-32.24	2.14	3.00	10.49	-23.89	-13.00	10.89	H
	667.38	-33.47	2.68	3.00	10.84	-25.31	-13.00	12.31	H
	755.53	-35.78	2.88	3.00	11.68	-26.98	-13.00	13.98	H
	835.33	-35.94	3.16	3.00	11.99	-27.11	-13.00	14.11	H
	935.40	-36.09	3.34	3.00	12.53	-26.90	-13.00	13.90	H
	957.44	-37.84	3.54	3.00	12.87	-28.51	-13.00	15.51	H

Test Frequency (MHz)	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance (m)	G _a Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Pol.
467.7125	1382.18	-37.61	4.09	3.00	15.27	-26.43	-13.00	13.43	V
	1402.81	-37.19	4.21	3.00	15.48	-25.92	-13.00	12.92	V
	1870.33	-39.14	4.52	3.00	17.32	-26.34	-13.00	13.34	V
	2338.46	-43.81	5.24	3.00	18.37	-30.68	-13.00	17.68	V
	2383.58	-43.34	5.19	3.00	18.76	-29.77	-13.00	16.77	V
	2349.37	-43.45	5.36	3.00	18.29	-30.52	-13.00	17.52	V
467.7125	1382.19	-37.61	4.09	3.00	15.27	-26.43	-13.00	13.43	H
	1402.81	-37.18	4.21	3.00	15.48	-25.91	-13.00	12.91	H
	1870.33	-39.11	4.52	3.00	17.32	-26.31	-13.00	13.31	H
	2338.42	-43.77	5.24	3.00	18.37	-30.64	-13.00	17.64	H
	2383.64	-43.34	5.19	3.00	18.76	-29.77	-13.00	16.77	H
	2349.39	-43.52	5.36	3.00	18.29	-30.59	-13.00	17.59	H

Test Frequency (MHz)	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance (m)	G _a Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Pol.
462.7250	548.35	-32.26	2.14	3.00	10.49	-23.91	-13.00	10.91	V
	667.45	-33.45	2.68	3.00	10.84	-25.29	-13.00	12.29	V
	755.56	-35.75	2.88	3.00	11.68	-26.95	-13.00	13.95	V
	835.33	-35.87	3.16	3.00	11.99	-27.04	-13.00	14.04	V
	935.39	-36.09	3.34	3.00	12.53	-26.90	-13.00	13.90	V
	957.42	-37.77	3.54	3.00	12.87	-28.44	-13.00	15.44	V
462.7250	548.35	-32.29	2.14	3.00	10.49	-23.94	-13.00	10.94	H
	667.43	-33.47	2.68	3.00	10.84	-25.31	-13.00	12.31	H
	755.54	-35.79	2.88	3.00	11.68	-26.99	-13.00	13.99	H
	835.31	-35.94	3.16	3.00	11.99	-27.11	-13.00	14.11	H
	935.40	-36.04	3.34	3.00	12.53	-26.85	-13.00	13.85	H
	957.40	-37.78	3.54	3.00	12.87	-28.45	-13.00	15.45	H



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Test Frequency (MHz)	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance (m)	G _a Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Pol.
462.7250	1382.17	-37.63	4.09	3.00	15.27	-26.45	-13.00	13.45	V
	1402.79	-37.14	4.21	3.00	15.48	-25.87	-13.00	12.87	V
	1870.27	-39.16	4.52	3.00	17.32	-26.36	-13.00	13.36	V
	2338.38	-43.80	5.24	3.00	18.37	-30.67	-13.00	17.67	V
	2383.64	-43.30	5.19	3.00	18.76	-29.73	-13.00	16.73	V
	2349.37	-43.49	5.36	3.00	18.29	-30.56	-13.00	17.56	V
462.7250	1382.17	-37.58	4.09	3.00	15.27	-26.40	-13.00	13.40	H
	1402.80	-37.11	4.21	3.00	15.48	-25.84	-13.00	12.84	H
	1870.31	-39.20	4.52	3.00	17.32	-26.40	-13.00	13.40	H
	2338.40	-43.80	5.24	3.00	18.37	-30.67	-13.00	17.67	H
	2383.57	-43.29	5.19	3.00	18.76	-29.72	-13.00	16.72	H
	2349.44	-43.43	5.36	3.00	18.29	-30.50	-13.00	17.50	H

Remark:

1. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
2. $Margin = Limit - EIRP$
3. The Report only recorded the worst result (462.5625MHz and 467.7125MHz).
4. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency, and only recorded worst spurious emissions.



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6. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2023-06-15	2024-06-14
2	Power Sensor	R&S	NRV-Z81	100458	2023-06-15	2024-06-14
3	Power Sensor	R&S	NRV-Z32	10057	2023-06-15	2024-06-14
4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2022-10-29	2023-10-28
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2022-10-29	2023-10-28
7	DC Power Supply	Agilent	E3642A	N/A	2022-10-29	2023-10-28
8	EMI Test Software	AUDIX	E3	/	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2023-06-15	2024-06-14
10	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-29	2024-08-28
15	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2023-06-15	2024-06-14
16	EMI Test Receiver	R&S	ESR 7	101181	2023-06-15	2024-06-14
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28
18	Broadband Preamplifier	/	BP-01M18G	P190501	2023-06-15	2024-06-14
19	6dB Attenuator	/	100W/6dB	1172040	2023-06-15	2024-06-14
20	3dB Attenuator	/	2N-3dB	/	2022-10-29	2023-10-28
21	EMI Test Receiver	R&S	ESPI	101940	2022-08-18	2023-08-17
22	Artificial Mains	R&S	ENV216	101288	2023-06-15	2024-06-14
23	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2023-06-15	2024-06-14
24	EMI Test Software	Farad	EZ	/	N/A	N/A
25	Signal analyzer	HP	8921A	3344A00457	2023-06-15	2024-06-14



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7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----



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