

TEST REPORT

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Report Number : SZNS220216-04727E-RF-00B
FCC ID: 2A3OORB46

Test Standard (s)

FCC PART 95

Sample Description

Product Type: Two Way Radio
Model No.: RB46
Multiple Model(s) No.: N/A
Trade Mark: RETEVIS
Date Received: 2022/02/16
Date of Test: 2022/02/28~2022/03/01
Report Date: 2022/03/18

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:



Black Ding
EMC Engineer

Approved By:



Robert Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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Shenzhen Accurate Technology Co., Ltd.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Frequency Range	462.5500~462.7250MHz
Transmit Power (ERP)	462.5500~462.7250MHz: 32.95dBm
Channel Spacing	12.5kHz
Modulation Technique	FM
Antenna Specification*	2.0dBi(It is provided by the applicant)
Voltage Range	DC 3.7V from battery
Sample serial number	SZNS220216-04727E-RF-S1 for Radiated Emissions SZNS220216-04727E-RF-S2 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2 and Part 95, Subpart A & Subpart B of the Federal Communication Commissions rules.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with Part 95 Subpart A, Subpart B of the Federal Communication Commissions rules with TIA-603-E, Land Mobile FM or PM-Communications Equipment-Measurement and Performance Standards and ANSI C63.26-2015 American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
Emissions, Radiated	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
Temperature		1°C
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Channel List

Channel No.	Channel Frequency (MHz)	Channel No.	Channel Frequency (MHz)
1	462.5625	16	462.5750
2	462.5875	17	462.6000
3	462.6125	18	462.6250
4	462.6375	19	462.6500
5	462.6625	20	462.6750
6	462.6875	21	462.7000
7	462.7125	22	462.7250
15	462.5500	/	/

Equipment Modifications

No modification was made to the EUT tested.

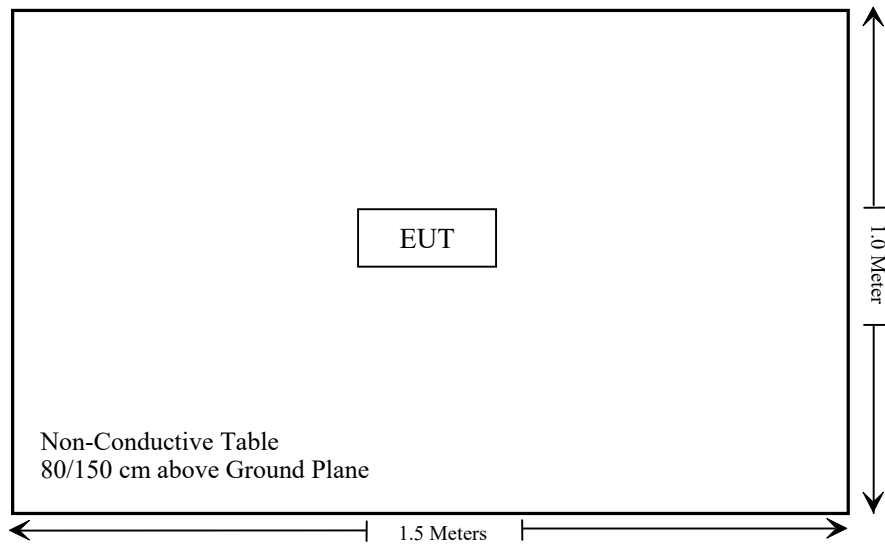
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To
/	/	/	/

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§2.1093	RF Exposure	Compliant
§2.1046, §95.567	RF Output Power	Compliant
§2.1047, §95.575	Modulation Characteristic	Compliant
§2.1049, §95.573, §95.579	Authorized Bandwidth & Emission Mask	Compliant
§2.1053, §95.579	Radiated Spurious Emission	Compliant
§2.1055(d), §95.565	Frequency Stability	Compliant
§95.587	FRS additional requirements	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2020/01/05	2023/01/04
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-655	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N200	2021/12/14	2022/12/13
Agilent	Signal Generator	N5183A	MY51040755	2021/12/13	2022/12/12
RF Conducted Test					
SPECTRUM ANALYZER	Rohde & Schwarz	FSU26	200982	2021/07/06	2022/07/05
HP Agilent	RF Communication test set	8920B	3325U00859	2021/03/15	2022/03/15
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Gongwen	Temp. & Humid. Chamber	HSD-500	109	2021/10/14	2022/10/13
Fluke	Multi Meter	45	7664009	2021/12/14	2022/12/13
Manson	DC Power Source	KPS-6604	ATCS-205	NCR	NCR
Unknown	RF Cable	Unknown	Unknown	Each time	/

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

§2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

§2.1093.

Test Result

Compliance, please refer to the SAR report: CR22020018-SA.

FCC §2.1046 & §95.567 - RF OUTPUT POWER

Applicable Standard

Per FCC §2.1046, and §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.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the emissions were measured by the substitution.

Test Data

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	52%
ATM Pressure:	101.0 kPa

The testing was performed by Chao Mo on 2022-02-28.

Test Mode: Transmitting

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
462.6875 MHz								
462.6875	5.65	148	1.6	H	9.1	14.75	33	-18.25
462.6875	27.95	359	2.1	V	5.0	32.95	33	-0.05

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Absolute Level - Limit

Test Result: Compliant.

FCC §2.1047 & §95.575 - MODULATION CHARACTERISTIC

Applicable Standard

Per FCC §2.1047 and §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.

Test Procedure

Test Method: TIA/EIA-603-E/ANSI C63.26-2015

Test Data

Environmental Conditions

Temperature:	27.4 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2022-03-01

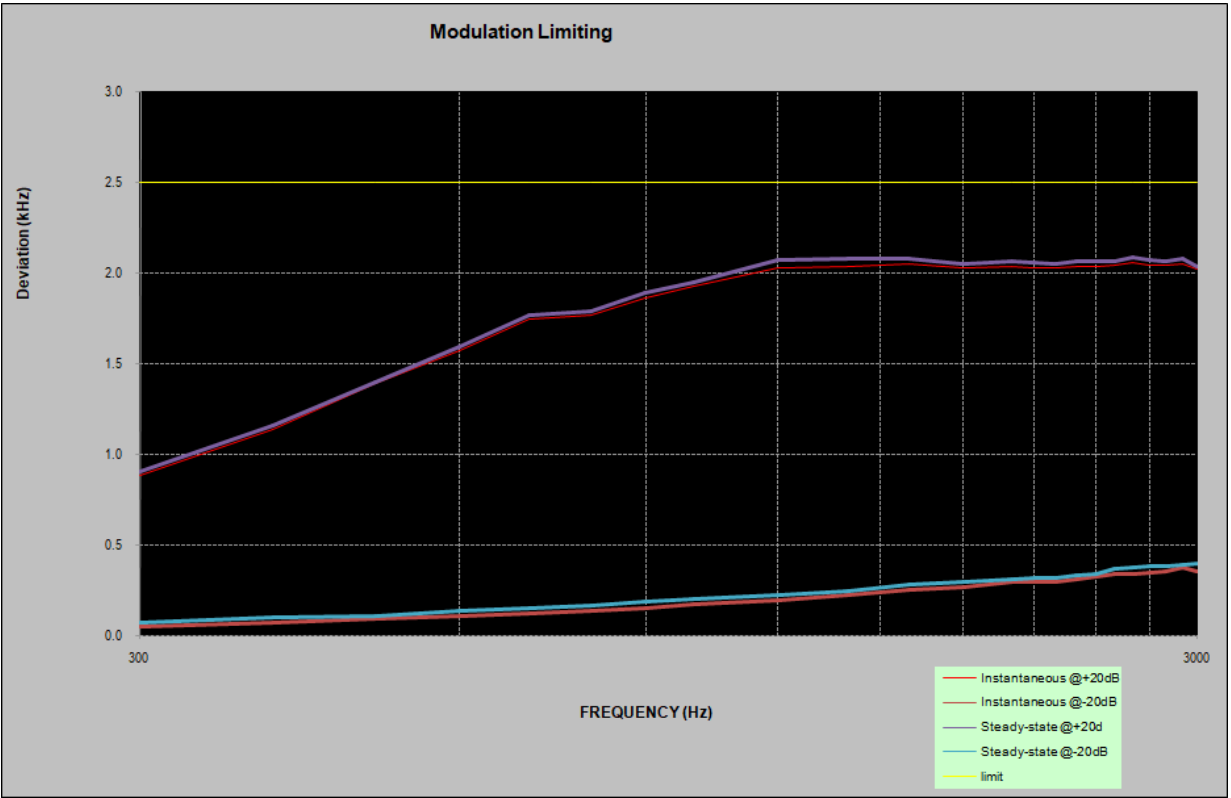
Please refer to the following tables and plots.

Test Mode: Transmitting

MODULATION LIMITING

Carrier Frequency: 462.6875MHz

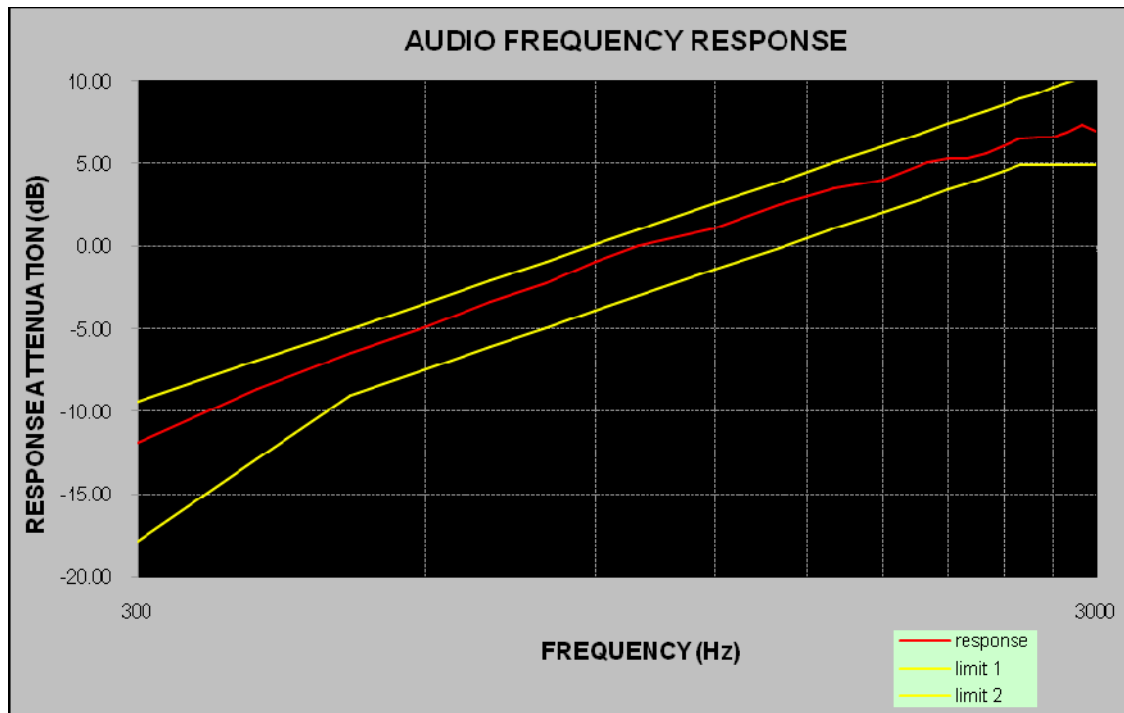
Audio Frequency (Hz)	Instantaneous		Steady-state		FCC Limit [kHz]
	DEVIATION (@+20dB) [kHz]	DEVIATION (@-20dB) [kHz]	DEVIATION (@+20dB) [kHz]	DEVIATION (@-20dB) [kHz]	
300	0.882	0.050	0.899	0.072	2.500
400	1.135	0.072	1.154	0.101	2.500
500	1.388	0.089	1.397	0.108	2.500
600	1.570	0.102	1.592	0.132	2.500
700	1.744	0.118	1.768	0.148	2.500
800	1.763	0.132	1.789	0.162	2.500
900	1.862	0.151	1.889	0.184	2.500
1000	1.923	0.170	1.947	0.197	2.500
1200	2.024	0.189	2.068	0.221	2.500
1400	2.032	0.220	2.074	0.245	2.500
1600	2.048	0.248	2.077	0.277	2.500
1800	2.028	0.262	2.047	0.294	2.500
2000	2.031	0.291	2.063	0.311	2.500
2100	2.023	0.295	2.054	0.315	2.500
2200	2.028	0.294	2.047	0.314	2.500
2300	2.029	0.306	2.061	0.329	2.500
2400	2.035	0.319	2.058	0.335	2.500
2500	2.042	0.335	2.062	0.368	2.500
2600	2.056	0.340	2.084	0.374	2.500
2700	2.038	0.341	2.069	0.381	2.500
2800	2.043	0.350	2.061	0.384	2.500
2900	2.046	0.370	2.074	0.391	2.500
3000	2.018	0.354	2.032	0.395	2.500



Audio Frequency Response

Carrier Frequency: 462.6875MHz

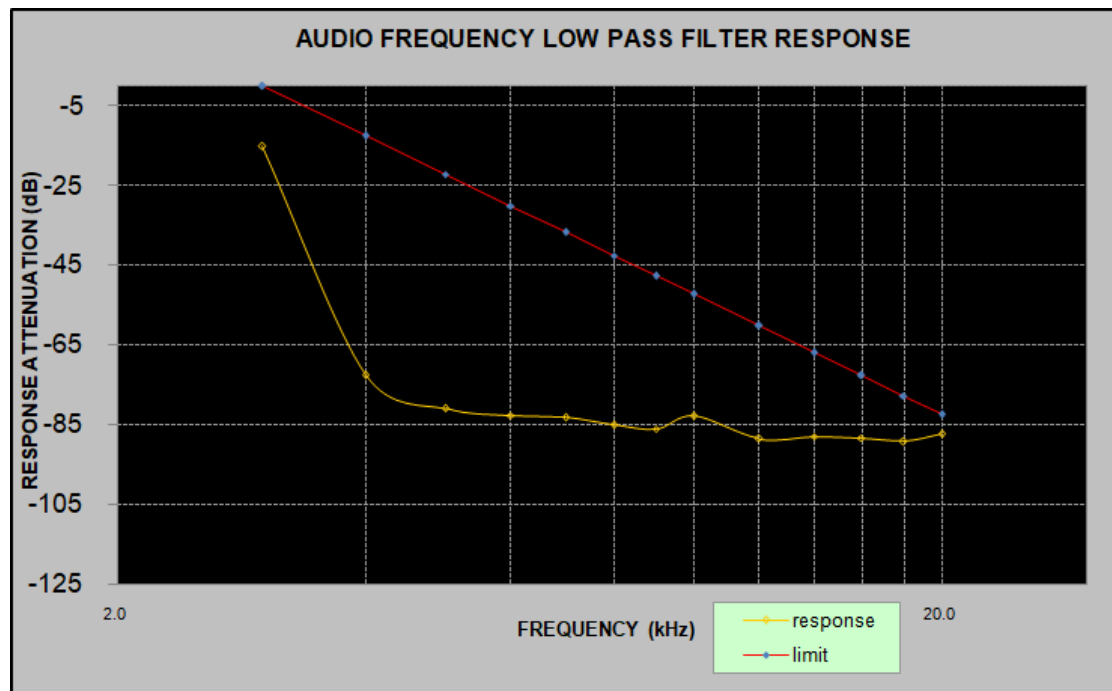
Audio Frequency (Hz)	Response Attenuation (dB)
300	-11.90
400	-8.64
500	-6.45
600	-4.85
700	-3.40
800	-2.20
900	-0.97
1000	0.00
1200	1.12
1400	2.52
1600	3.53
1800	4.03
2000	5.10
2100	5.31
2200	5.32
2300	5.59
2400	6.09
2500	6.54
2600	6.60
2700	6.58
2800	6.87
2900	7.32
3000	6.97



Audio frequency lows pass filter response

Carrier Frequency: 462.6875MHz

Audio Frequency (kHz)	Response Attenuation (dB)	FCC Limit (dB)
1.0	0.0	/
3.0	-15.14	0.0
4.0	-72.58	-12.5
5.0	-80.96	-22.2
6.0	-82.63	-30.1
7.0	-83.36	-36.8
8.0	-85.21	-42.6
9.0	-86.14	-47.7
10.0	-82.98	-52.3
12.0	-88.64	-60.2
14.0	-87.99	-66.9
16.0	-88.4	-72.7
18.0	-89.2	-77.8
20.0	-87.3	-82.4



FCC §2.1049 & §95.573 & §95.579 - AUTHORIZED BANDWIDTH AND EMISSION MASK

Applicable Standard

According to §95.573. Each FRS transmitter type must be designed such that the occupied bandwidth does not exceed 12.5 kHz.

Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph.

(a) 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.

(b) Measurement bandwidths. The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) and (2) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency range specified in paragraph (a)(3) is measured with a reference bandwidth of at least 30 kHz.

Test Procedure

TIA-603-E, section 2.2.11

Test Data

Environmental Conditions

Temperature:	27.4 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

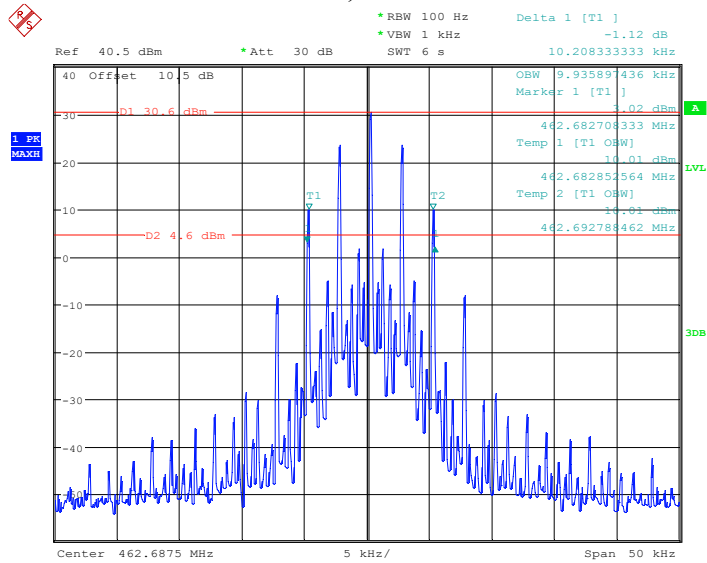
The testing was performed by Black Ding on 2022-03-01

Test Mode: Transmitting

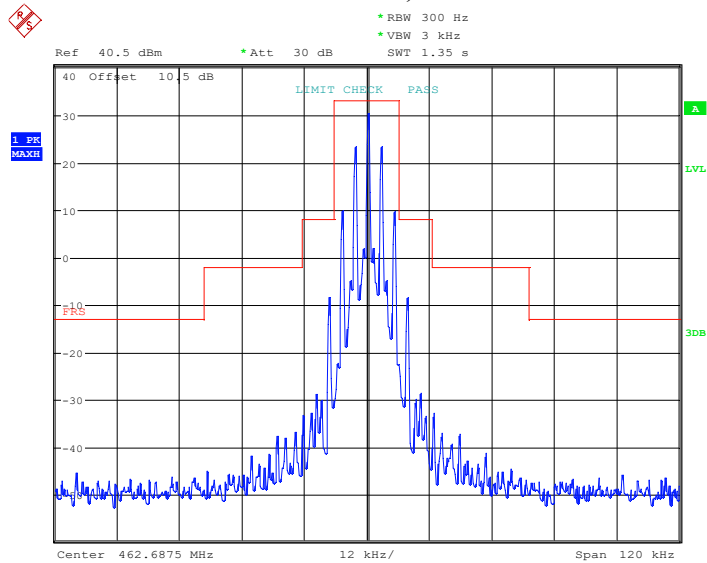
Frequency	Channel Separation (kHz)	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)
Analog	12.5	462.6875	9.936	12.5

Emission Designator Per CFR 47 §2.201& §2.202&, $B_n = 2M + 2D$:

Emission Designator 11K0F3E In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation. $BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} \rightarrow 11K0$
F3E portion of the designator represents an FM voice transmission Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

OBW, 462.6875 MHz

Date: 1.MAR.2022 20:23:47

Emission Mask, 462.6875 MHz

Date: 1.MAR.2022 20:26:05

FCC §2.1053 & §95.579- RADIATED SPURIOUS EMISSION

Applicable Standard

FCC §2.1053 and §95.579. Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph.

(a) *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.

(b) *Measurement bandwidths.* The power of unwanted emissions in the frequency bands specified in paragraphs (a)(1) and (2) of this section is measured with a reference bandwidth of 300 Hz. The power of unwanted emissions in the frequency range specified in paragraph (a)(3) is measured with a reference bandwidth of at least 30 kHz.

(c) *Measurement conditions.* The requirements in this section apply to each FRS transmitter type both with and without the connection of permitted attachments, such as an external speaker, microphone and/or power cord.

Test Procedure

The transmitter was placed on a wooden turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \lg (\text{TXpwr in Watts}/0.001)$ - the absolute level

Spurious attenuation limit in dB = $43 + 10 \log_{10} (\text{power out in Watts})$

Test Data**Environmental Conditions**

Temperature:	22 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2022-02-28

Test Mode: Transmitting

Frequency (MHz)	Receiver Reading (dBm)	Turntable Degree	Rx Antenna		Substituted Factor (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (m)	Polar (H/V)				
462.6875 MHz								
925.38	-50.82	45	1.6	H	9.3	-41.52	-13	-28.52
925.38	-52.73	333	1.3	V	11.5	-41.23	-13	-28.23
1388.06	-26.4	278	1.1	H	6.0	-20.40	-13	-7.40
1388.06	-25.6	118	2.3	V	5.8	-19.80	-13	-6.80
1850.75	-29.4	22	1.4	H	4.4	-25.00	-13	-12.00
1850.75	-30.6	279	1.4	V	3.6	-27.00	-13	-14.00
2313.44	-31.2	152	1.6	H	7.2	-24.00	-13	-11.00
2313.44	-29	183	1.7	V	6.7	-22.30	-13	-9.30
2776.13	-33.3	284	1.5	H	6.7	-26.60	-13	-13.60
2776.13	-32.1	56	1.4	V	6.3	-25.80	-13	-12.80
3238.81	-26.9	351	2.1	H	7.0	-19.90	-13	-6.90
3238.81	-27.7	170	1.6	V	6.3	-21.40	-13	-8.40

Note:

Absolute Level = Reading Level + Substituted Factor

Substituted Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Absolute Level - Limit

FCC§2.1055 (d) & §95.565 - FREQUENCY STABILITY

Applicable Standard

According to FCC §2.1055(a) (1), the frequency stability shall be measured with variation of ambient temperature from –30 °C to +50 °C, and according to FCC 2.1055(d) (2), the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point which is specified by the manufacturer.

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.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Frequency Counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Frequency Counter.

Frequency Stability vs. Voltage (item 1 or item 2 will be chosen according to different condition) :

☐1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

☒2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

The output frequency was recorded for each voltage.

Test Data

Environmental Conditions

Temperature:	27.4 °C
Relative Humidity:	57 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2022-03-01

Test Mode: Transmitting

Reference Frequency:462.6875MHz, Limit:2.5 ppm, 12.5kHz			
Environment Temperature (°C)	Power Supplied (V _{DC})	Measurement Frequency (MHz)	Frequency Error (ppm)
Frequency Stability versus Input Temperature			
50	3.7	462.687562	0.13
40	3.7	462.687512	0.03
30	3.7	462.687513	0.03
20	3.7	462.687584	0.18
10	3.7	462.687542	0.09
0	3.7	462.687535	0.08
-10	3.7	462.687589	0.19
-20	3.7	462.687566	0.14
-30	3.7	462.687524	0.05
Frequency Stability versus Input Voltage			
20	3.5	462.687496	-0.01
20	4.2	462.687521	0.05

§95.587 – FRS ADDITIONAL REQUIREMENTS

Applicable Standard

According to FCC §95.587

Each FRS transmitter type must be designed to meet the following additional requirements.

(a) Transmit frequency capability. FRS transmitter types must not be capable of transmitting on any frequency or channel other than those listed in § 95.563.

(b) Antenna. The antenna of each FRS transmitter type must meet the following requirements.

- (1) The antenna must be a non-removable integral part of the FRS transmitter type.
- (2) The gain of the antenna must not exceed that of a half-wave dipole antenna.
- (3) The antenna must be designed such that the electric field of the emitted waves is vertically polarized when the unit is operated in the normal orientation.

(c) Digital data transmissions. FRS transmitter types having the capability to transmit digital data must be designed to meet the following requirements.

- (1) FRS units may transmit digital data containing location information, or requesting location information from one or more other FRS or GMRS units, or containing a brief text message to another specific FRS or GMRS unit or units.
- (2) Digital data transmissions may be initiated by a manual action or command of the operator or on an automatic or periodic basis, and FRS units may be designed to automatically respond with location data upon receiving an interrogation request from another
- (3) Digital data transmissions must not exceed one second in duration.
- (4) Digital data transmissions must not be sent more frequently than one digital data transmission within a thirty-second period, except that an FRS unit may automatically respond to more than one interrogation request received within a thirty-second period.

(d) Packet mode. FRS transmitter types must not be capable of transmitting data in the store-and-forward packet operation mode.

(e) Effective September 30, 2019, no person shall manufacture or import hand-held portable radio equipment capable of operating under this subpart (FRS) and other licensed or licensed-by-rule services in this chapter (part 15 unlicensed equipment authorizations are permitted if consistent with part 15 rules).

Result

- (a) Compliant, please refer to the channel list.
- (b) Compliant, EUT has an non-removable integral vertically polarized antenna arrangement and the antenna gain is 2.0dBi(-0.15dBd), fulfill the requirement of this section. Please refer to the EUT photos.
- (c) Not Applicable, EUT not support this function, please refer to user manual.
- (d) Not Applicable, EUT not support this function, please refer to user manual.
- (e) Compliant, EUT only with FRS function operating under FCC part 95B, not support other function, please refer to user manual.

******* END OF REPORT *******