



FCC 47 CFR PART 95 SUBPART A/B

TEST REPORT

For

Wintecronics Co., Ltd.

Walkie-Talkie

Model: LP-4502G

Trade Name: Wintec

Prepared for

Wintecronics Co., Ltd.

**No. 716, 11F-3, Jung Jeng Rd., Chung Ho City 235,
Taipei Hsien, Taiwan, R.O.C.**

Prepared by

Compliance Certification Services Inc.

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1. TEST RESULT CERTIFICATION

Applicant: Wintecronics Co., Ltd.
No. 716, 11F-3, Jung Jeng Rd., Chung Ho City 235,
Taipei Hsien, Taiwan, R.O.C.

Equipment Under Test: Walkie-Talkie

Trade Name: Wintec

Model: LP-4502G

Date of Test: June 11, 2004

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC Part 95 Subpart A/B	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4, EIA/TIA Specification 603 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 95.635.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Harris W. Lai
Executive Vice President
Compliance Certification Services Inc.

Reviewed by:

James Lee
Section Manager
Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	Walkie-Talkie
Trade Name	Wintec
Model Number	LP-4502G
Model Discrepancy	N/A
Power Supply	Powered by Battery
Frequency Range	FRS 462.5625MHz ~ 462.7125MHz 467.5625MHz ~ 467.7125MHz GMRS 462.5500 ~ 467.7250
Transmit Power (ERP)	FRS: 23.68dBm GMRS: 27.09dBm
Type of Emission	10K9F3E $B_n = 2M + 2DK$ $M = 3000$ $D = 2.45$ $K = 1$ $B_n = 2 * 3000 + 2 * 2.45 * 1 = 10900$
Number of Channels	FRS = 14 GMRS = 22
RF Power Output	FRS = 1.125Watts GMRS(Low) = 1.125Watts GMRS(High) = 3.75Watts
DC Voltage and Current into Final Amplifier	FRS = (7.5V)(150mA) = 1.125 Watts GMRS(Low) = (7.5V)(150mA) = 1.125Watts GMRS(High) = (7.5V)(500mA) = 3.75Watts
Antenna Specification	Helical Antenna Gain: -1.42dBi (max)
Temperature Range	-30°C ~ +55°C

Note: This submittal(s) (test report) is intended for FCC ID: NJQLP-4502 filing to comply with FCC Part 95, Subpart E Rules.



3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4. Radiated testing was performed at an antenna to EUT distance 3 meters.

3.1 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.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 95.635, under the FCC Rules Part 95 Subpart E.

Radiated Emissions

The EUT is placed on a turntable, which is 0.8 m above ground plane. 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 emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4.

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting is programmed.

GMRS Mode: Channel 1 with highest data rate (the worst case) is chosen for full testing.

FRS Mode: Channel 14 with highest data rate (the worst case) is chosen for full testing.

The field strength of spurious radiation emission was measured in the following position: EUT stand-up position (X mode), lie down position (Y, Z mode) and the position which the EUT is put onto the cradle. The following data show only with the worst case setup (the position which the EUT is put onto the cradle).



4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☒ No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang, Taoyuan Hsien, Taiwan, R.O.C.

☐ No. 199, Chungsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200600-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: 93105 and 90471).

5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP*	EN 55011, EN 55014-1, AS/NZS 1044, CNS 13783-1, EN 55022, CNS 13438, EN 61000-3-2, EN 61000-3-3, ANSI C63.4, FCC OST/MP-5, AS/NZS CISPR 22, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	 200600-0
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	 93105, 90471
Japan	VCCI	4 3/10 meter Open Area Test Sites to perform conducted/radiated measurements	VCCI R-393/1066/725/879 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328-2, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	 ELA 124a ELA 124b ELA 124c
Taiwan	CNLA	EN 300 328-1/2, EN 300 220-1/2/3, EN 300 440-1/2, EN 61000-3-2, EN 61000-3-3, 47 CFR FCC Part 15 Subpart C/D/E, EN 55013, CNS 13439, EN 55014-1, CNS 13783-1, EN 55022, CNS 13438, CISPR 22, AS/NZS 3548, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, IEEE Std 1528, FCC OET Bulletin, 65+Supplement C, EN50360, EN50361, EN50371, RSS102	 0 3 6 3 ILAC MRA
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	 SL2-IS-E-0014 SL2-IN-E-0014 SL2-A1-E-0014 SL2-R1-E-0014 SL2-R2-E-0014 SL2-L1-E-0014
Canada	Industry Canada	RSS212, Issue 1	 IC 3991-3 IC 3991-4

* No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

Device Type	Brand	Model	FCC ID	Series No.	Data Cable	Power Cord
Acoustical Calibrator Type 4231	Bruel & Kjaer	SPL-1000Hz	N/A	2350799	N/A	N/A

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*



7. FCC PART 95 SUBPART E REQUIREMENTS

7.1 MAXIMUM TRANSMITTER OUTPUT POWER

LIMIT

According to Section 95.639

The maximum transmitter output power of the intentional radiator shall not exceed the following:

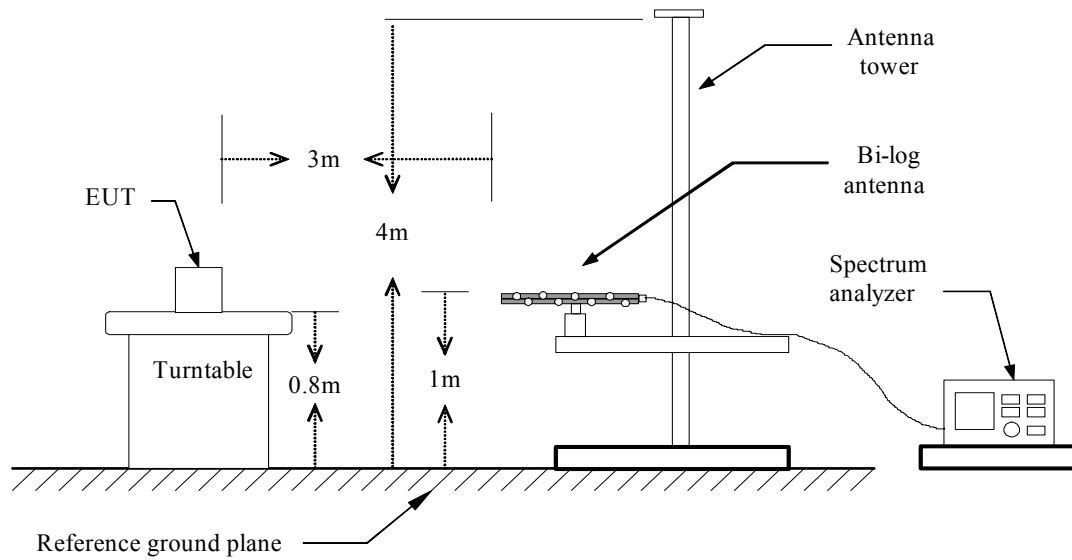
1. FRS Device output power less than 0.5 Watts (ERP).
2. GMRS device output power less than 50 Watts (ERP).

MEASUREMENT EQUIPMENT USED

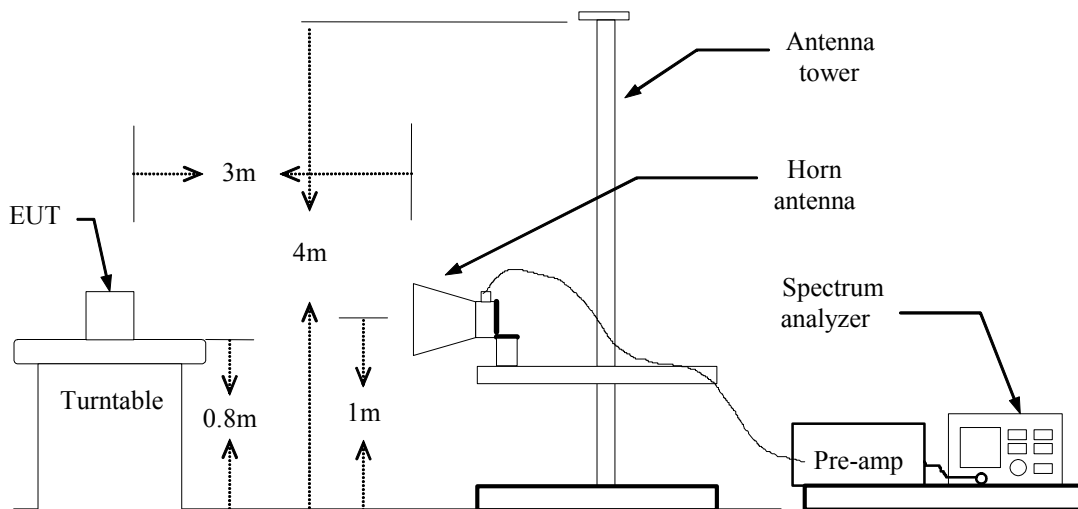
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	04/27/2005
EMI Test Receiver	R&S	ESVS20	838804/004	01/08/2005
Pre-Amplifier	HP	8447D	2944A09173	03/02/2005
Bilog Antenna	SCHWAZBECK	VULB9163	145	07/05/2004
Loop Antenna	EMCO	6502	N/A	07/16/2004
Turn Table	EMCO	2081-1.21	9709-1885	N.C.R
Antenna Tower	EMCO	2075-2	9707-2060	N.C.R
Controller	EMCO	2090	9709-1256	N.C.R
RF Switch	ANRITSU	MP59B	M53867	N.C.R
Site NSA	C&C	N/A	N/A	09/06/2004
Horn Antenna	EMCO	3115	00022250	03/15/2005

TEST CONFIGURATION

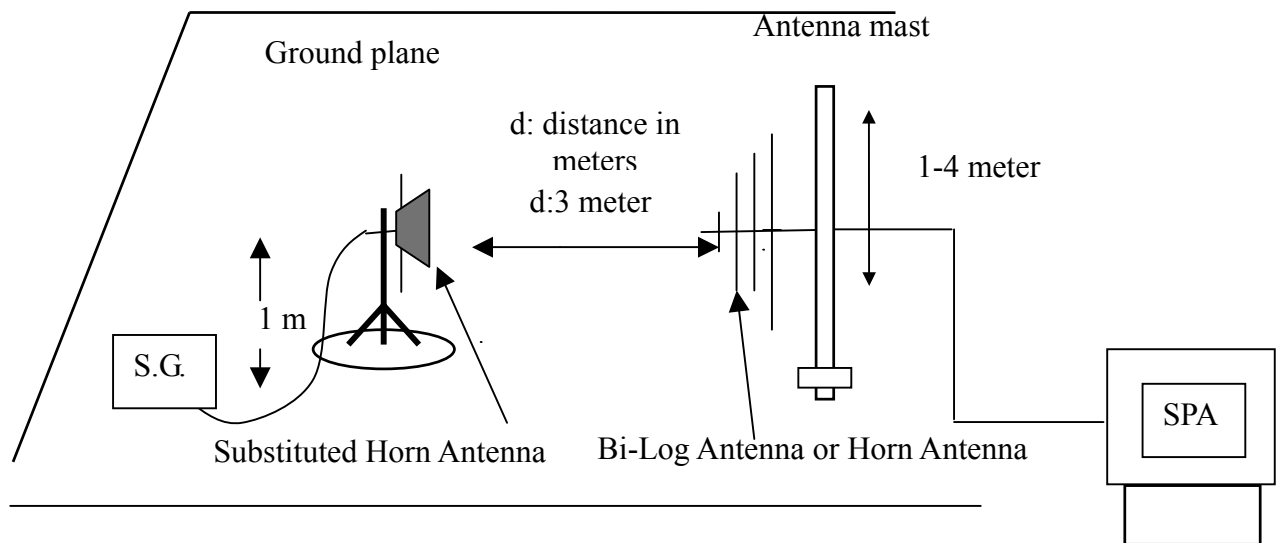
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-up



TEST PROCEDURE

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 1MHz and the average bandwidth was set to 1MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency range between 30 ~1GHz in frequency range above 1GHz were measured using a substitution method. The EUT was replaced by half-wave dipole or horn antenna connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

**TEST RESULTS***No non-compliance noted***TEST DATA**

Operation Mode: GMRS (Low) CH1 **Test Date:** June 11, 2004
Temperature: 20°C **Tested by:** Jim Cheng
Humidity: 68 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading level (dBm)	Antenna Polarization	CF. (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
462.5625	20.51	V	4.38	24.89	37.00	-12.11
925.1250	-53.01	V	13.65	-39.36	-13.00	-26.36
1387.6875	-22.83	V	-3.22	-26.05	-13.00	-13.05
1850.2500	-44.57	V	6.36	-38.21	-13.00	-25.21
2312.8125	-55.38	V	9.09	-46.29	-13.00	-33.29
2775.3750	-45.85	V	10.40	-35.45	-13.00	-22.45
N/A						
462.5625	-1.03	H	4.38	3.35	37.00	-33.65
925.1250	-60.90	H	13.65	-47.25	-13.00	-34.25
1387.6875	-47.73	H	4.11	-43.62	-13.00	-30.62
1850.2500	-49.83	H	6.86	-42.97	-13.00	-29.97
2312.8125	-54.79	H	8.93	-45.86	-13.00	-32.86
2775.3750	-57.14	H	10.90	-46.24	-13.00	-33.24
N/A						



Operation Mode: GMRS (High) CH14 **Test Date:** June11, 2004
Temperature: 20°C **Tested by:** Jim Cheng
Humidity: 68 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading level (dBm)	Antenna Polarization	CF. (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
462.5625	22.71	V	4.38	27.09	37.00	-9.91
925.1250	-52.75	V	13.65	-39.10	-13.00	-26.10
1387.6875	-27.12	V	-3.22	-30.34	-13.00	-17.34
1850.2500	-45.18	V	6.36	-38.82	-13.00	-25.82
2312.8125	-52.37	V	9.09	-43.28	-13.00	-30.28
2775.3750	-44.43	V	10.4	-34.03	-13.00	-21.03
N/A						
462.5625	3.13	H	4.38	7.51	37.00	-29.49
925.1250	-58.56	H	13.65	-44.91	-13.00	-31.91
1387.6875	-45.46	H	4.11	-41.35	-13.00	-28.35
1850.2500	-47.83	H	6.86	-40.97	-13.00	-27.97
2312.8125	-48.148	H	8.93	-39.25	-13.00	-26.25
2775.3750	-41.55	H	10.90	-30.65	-13.00	-17.65
N/A						

**Operation Mode:** FRS**Test Date:** June11, 2004**Temperature:** 20°C**Tested by:** Jim Cheng**Humidity:** 68 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Reading level (dBm)	Antenna Polarization	CF. (dB)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
467.7125	19.30	V	4.38	23.68	27.00	-3.32
935.4250	-53.37	V	13.65	-39.72	-13.00	-26.72
1403.1375	-29.33	V	3.91	-25.42	-13.00	-12.42
1870.8500	-34.65	V	6.48	-28.17	-13.00	-15.17
2338.5625	-49.90	V	9.17	-40.73	-13.00	-27.73
2806.2750	-36.26	V	10.54	-25.72	-13.00	-12.72
N/A						
467.7125	3.89	H	4.38	8.27	27.00	-18.73
935.4250	-52.95	H	13.65	-39.30	-13.00	-26.30
1403.1375	-42.07	H	4.24	-37.83	-13.00	-24.83
1870.8500	-32.45	H	6.98	-25.47	-13.00	-12.47
2338.5625	-53.45	H	9.01	-44.44	-13.00	-31.44
2806.2750	-40.19	H	11.04	-29.15	-13.00	-16.15
N/A						



7.2 MODULATION CHARACTERISTICS

LIMIT

According to CFR 47 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 measurement.

According to CFR 47 section 95.637, A GMRS transmitter that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 5 kHz. A FRS unit that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 2.5 kHz, and the audio frequency response must not exceed 3.125 kHz.

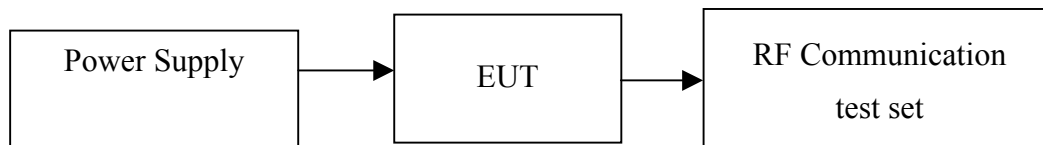
MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
RF Communication Test Set	HP	8920B	US36142090	06/04/2005

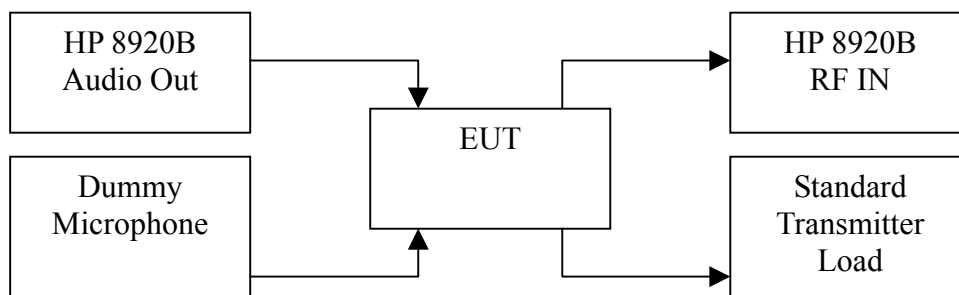
Remark: Each piece of equipment is scheduled for calibration once a year.

TEST CONFIGURATION

Modulation Limiting and Audio Frequency Response



Audio Frequency Response of Low Pass Filter





TEST PROCEDURE

1. Modulation Limiting

Configure the EUT as shown in above. Adjust the audio input for 60% of rated system deviation at 1KHz using this level as a reference (0dB) and vary the input level from -20 through -20 dB. Record the frequency deviation obtained as a function of the output level.

Repeat step 1 with input frequency changing to 300Hz, 1000Hz, 1500Hz, 2500Hz in sequence.

2. Audio Frequency Response

Configure the EUT as shown in above. Adjust the audio input level to 20% of rated system deviation at 1KHz using this level as a reference (0dB). Vary the Audio frequency from 100Hz to 10KHz and record the frequency deviation.

3. Audio Frequency Response of Low Pass Filter

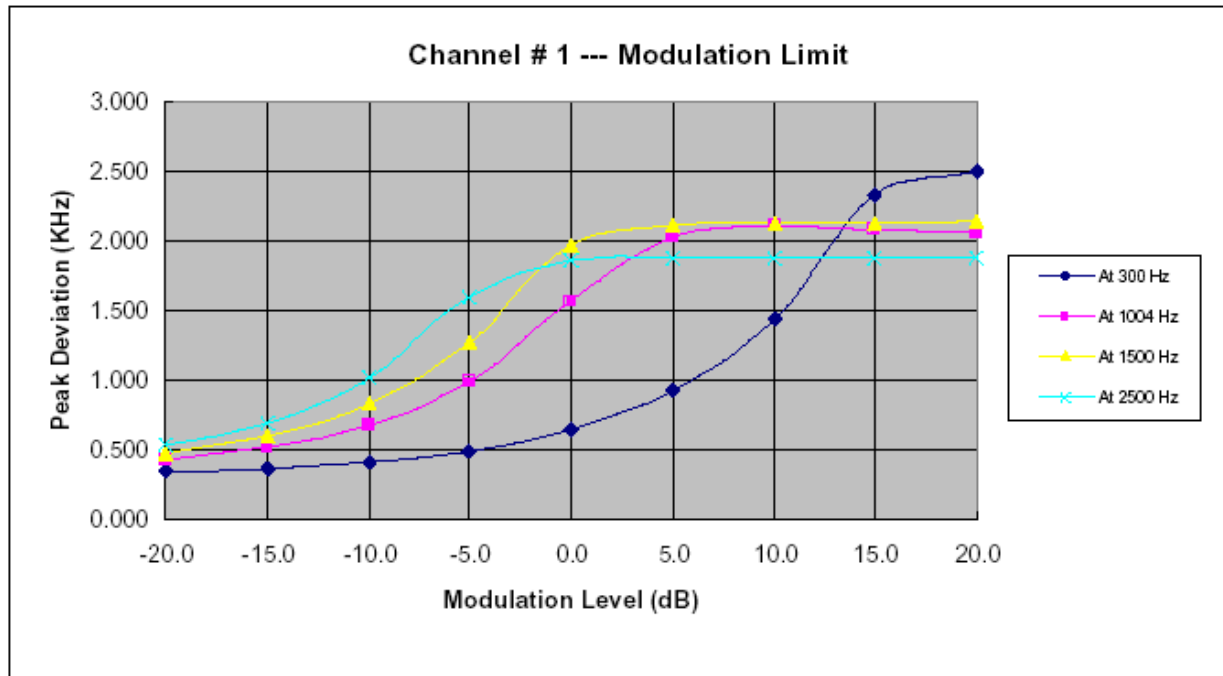
Configure the EUT as shown in above. Connect the audio generator as close possible the input of the post limit low pass filter within the transmitter under test. Apply 1KHz tone from the audio generator and adjust the level per manufacturer's specifications. Record the ATT level(dB) on the RF communication test set. Set the audio generator to the desired test frequency between 3KHz and the upper low pass filter limit. Record audio generator level and record the ATT level (dB) on RF communication test set. Repeat all the desired test frequencies.

TEST RESULTS

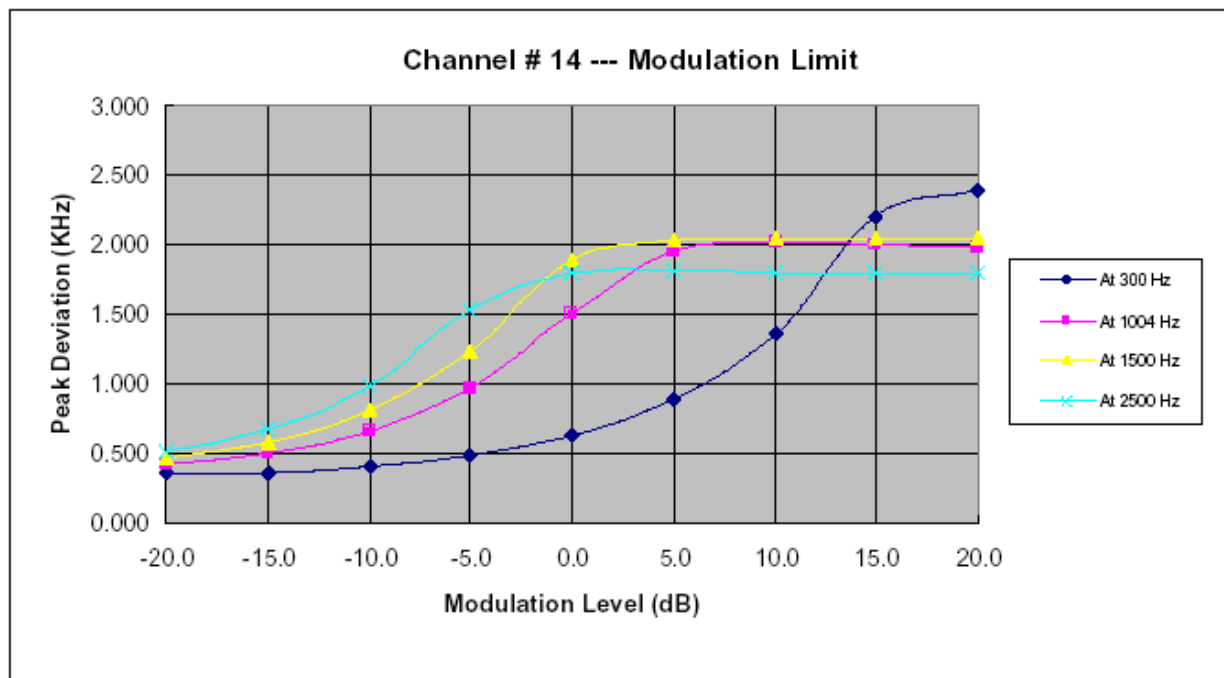
No non-compliance noted

TEST PLOT

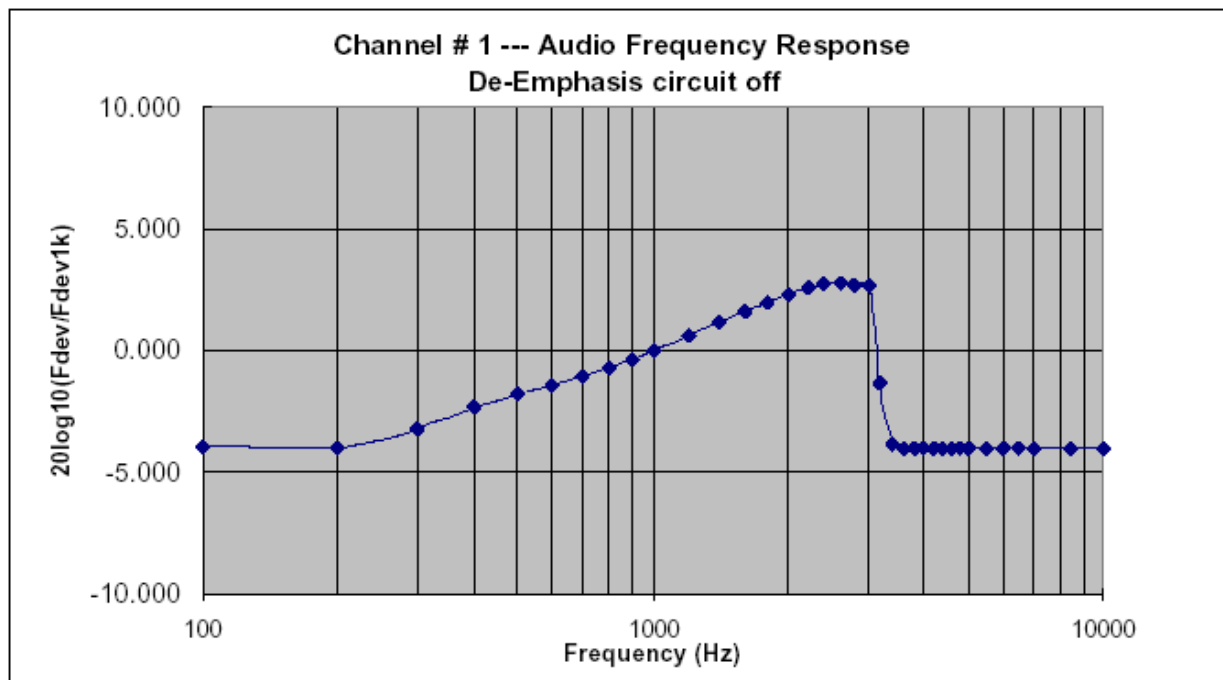
Modulation Limiting CH1



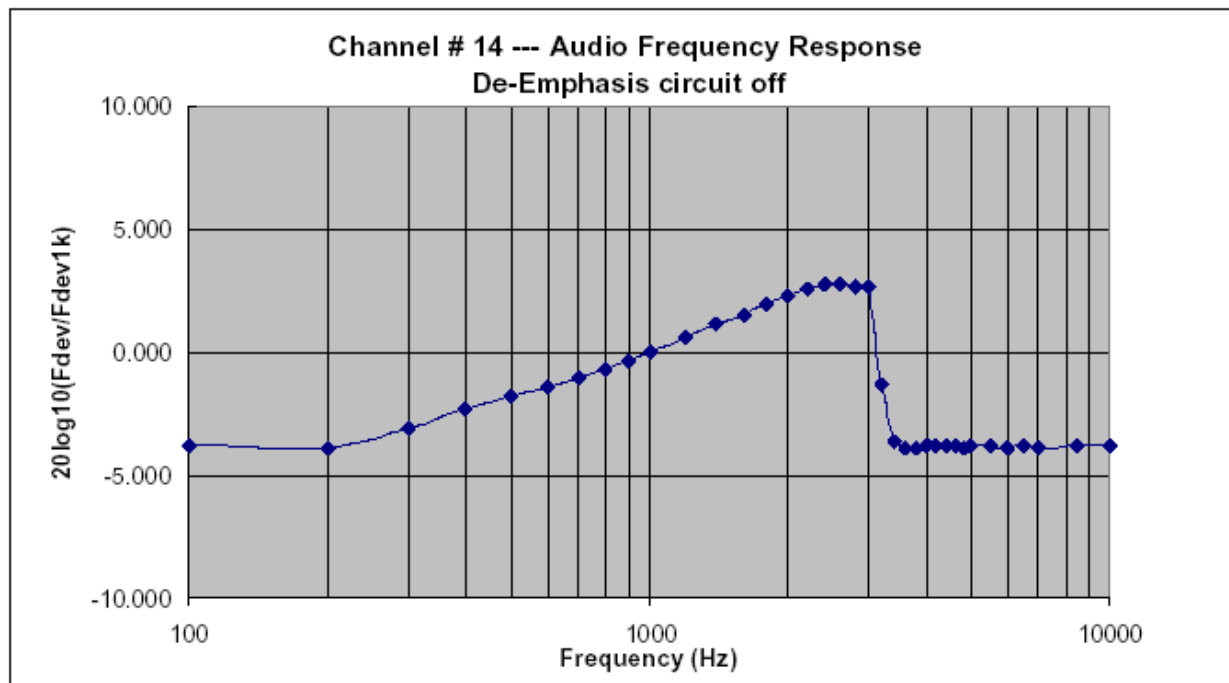
Modulation Limiting CH14



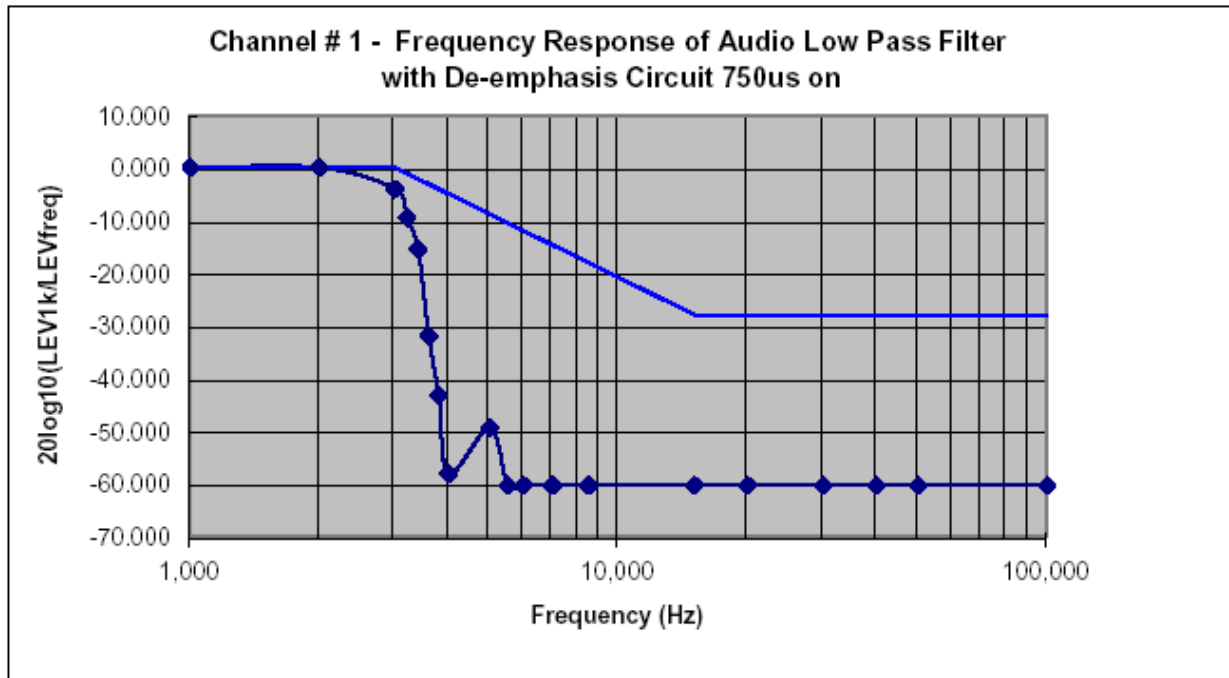
Audio Frequency Response CH1



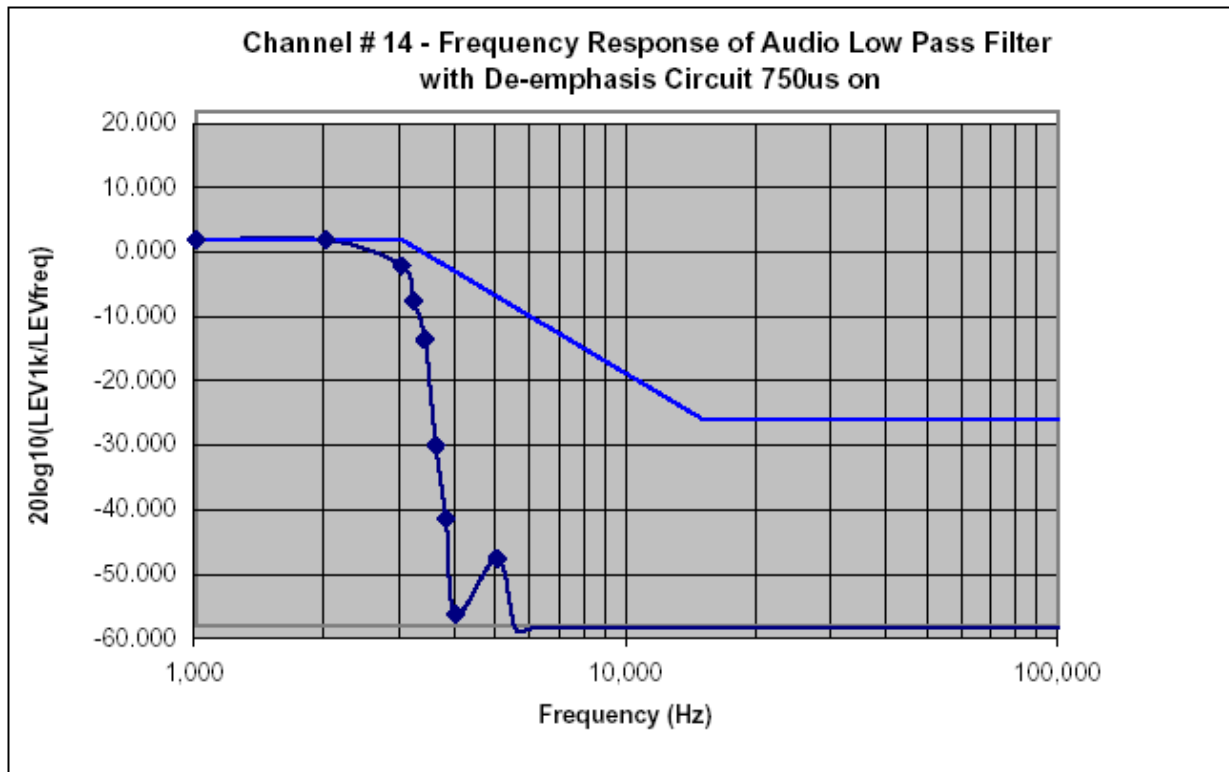
Audio Frequency Response CH14



Audio Frequency Response of Low Pass Filter CH1



Audio Frequency Response of Low Pass Filter CH14





7.3 EMISSION BANDWIDTH

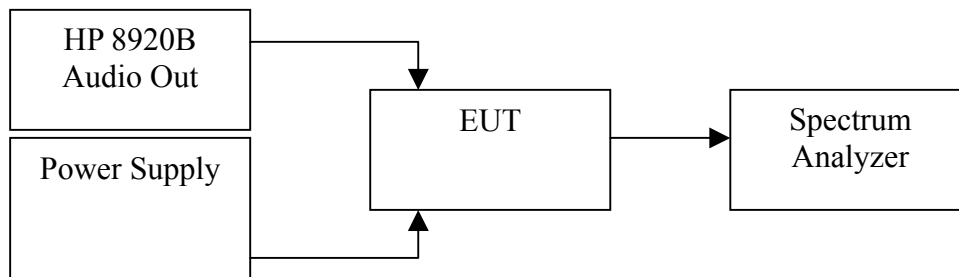
LIMIT

According to CFR 47 section 95.633(c), the authorized bandwidth for emission type FRS unit is 12.5KHz, For The authorized bandwidth for emission type F1D, G1D, F3E or G3E is 20 kHz.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2005
Spectrum Analyzer	R&S	FSP30	1093.4495.30	07/22/2005

TEST CONFIGURATION



TEST PROCEDURE

Configure the EUT as shown in above. Set the level of audio output to obtain 16dB greater than required for the rated 50% modulation. Emission bandwidth will be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 20 dB down relative to the maximum level of the modulated carrier. Compliance with the emission bandwidth limit is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

TEST RESULTS

No non-compliance noted

Test mode: GMRS

Channel	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	5.670	20.00	PASS
High	5.840		PASS

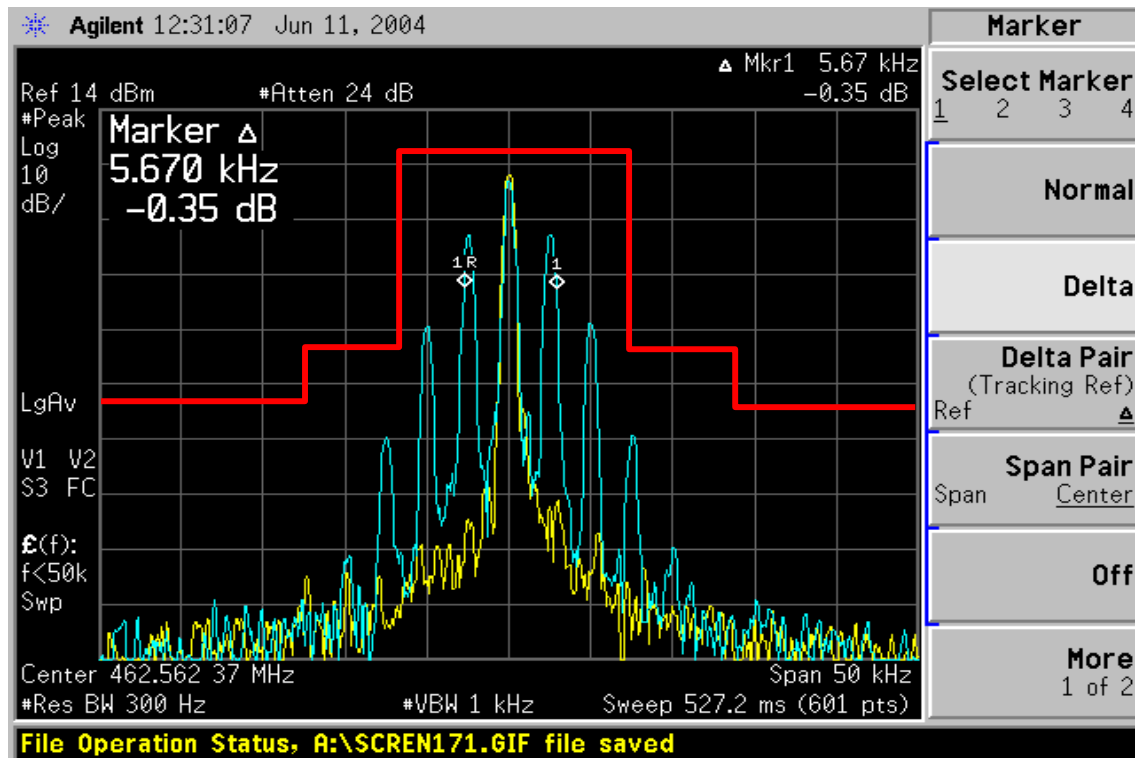
Test mode: FRS

Channel	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	5.75	12.50	PASS

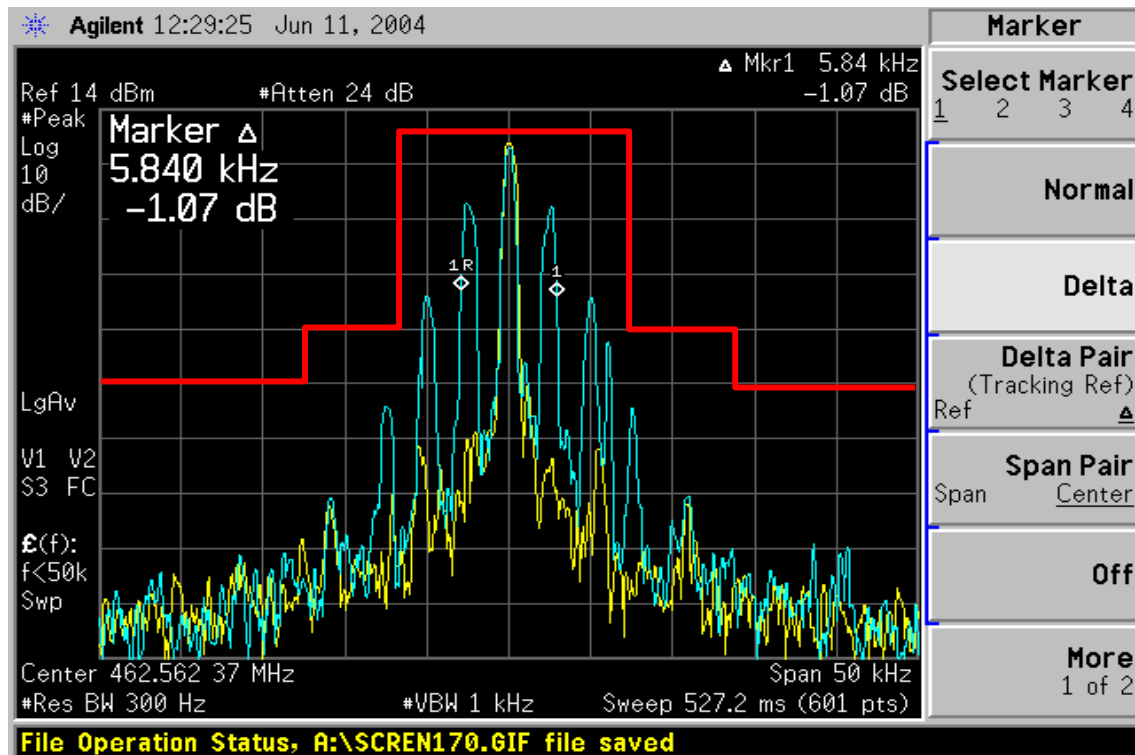


TEST PLOT

GMRS (Low) Emission Bandwidth

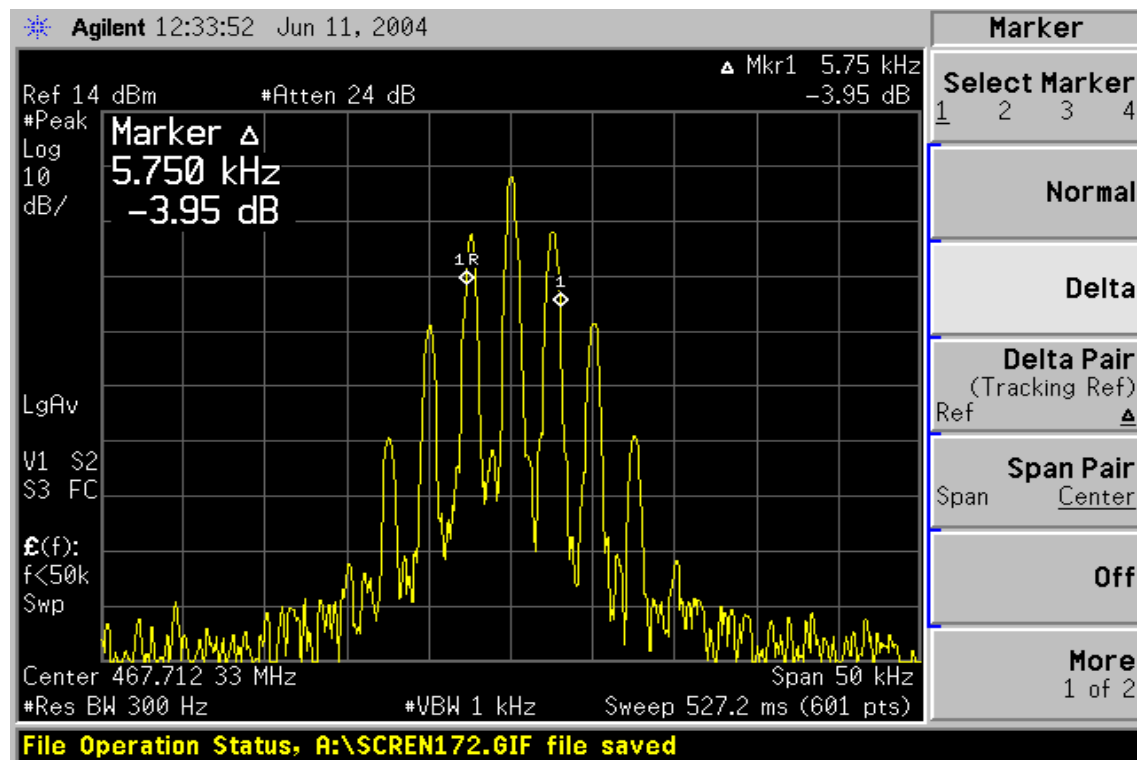


GMRS (High) Emission Bandwidth





FRS Emission Bandwidth





7.4 SPURIOUS EMISSION AT ANTENNA TERMINALS

LIMIT

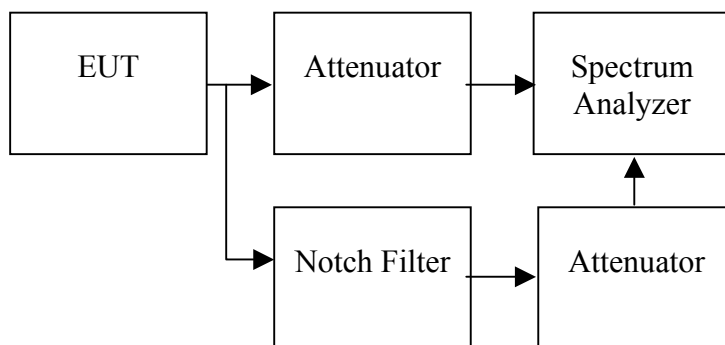
According to Part 2.1051, The magnitude of spurious emissions which are attenuated more than 20 dB below of the fundamental.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2005
Spectrum Analyzer	R&S	FSP30	1093.4495.30	07/22/2004

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST CONFIGURATION



TEST PROCEDURE

1. Place the EUT on the table and set it in 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 spectrum analyzer Start=10MHz, Stop = 5GHz
4. Set the spectrum analyzer as RBW, VBW=1MHz,
5. Max hold,
6. Record test data.

TEST RESULTS

Not applicable, No antenna terminal allowed.

7.5 FREQUENCY STABILITY

LIMIT

According to Part 95.621 (b), Each GMRS transmitter for mobile station, small base station and control station operation must be maintained within a frequency tolerance of 0.0005%. Each GMRS transmitter for base station (except small base), mobile relay station or fixed station operation must be maintained within a frequency tolerance of 0.00025%.

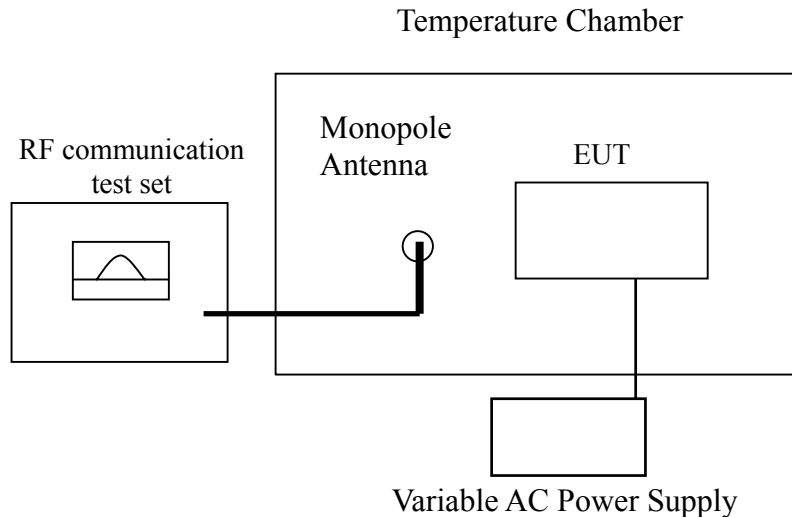
According to Part 95.627 (b), Each FRS unit must be maintained within a frequency tolerance of 0.00025%.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
RF Communication Test Set	HP	8920B	US36142090	06/04/2005
Temp. / Humidity Chamber	Kingson	THS-M1	242	03/20/2004

***Remark:** Each piece of equipment is scheduled for calibration once a year.*

TEST CONFIGURATION





TEST PROCEDURE

The transmitter was placed in the temperature chamber at 25 degree C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which frequency readings were recorded at 15 second intervals. The worst-case number was taken for temperature plotting. The assigned channel frequency was considered to be the reference frequency. The temperature was then reduced to -30(or -20) degree C after which the transmitter was again allowed to stabilize for one hour. The transmitter was keyed ON for one minute, and again frequency readings were noted at 15-second intervals. The worst-case number was taken for temperature plotting. This test procedure was repeatable in 10-degree increments up to +50 degree.

**TEST RESULTS***No non-compliance noted***TEST RESULTS***No non-compliance noted***Test Data**

20°C		Reference Frequency:		462.5625	MHz
FRS Limit: 2.5 ppm = 1.156KHz		GMRS Limit: 5 ppm = 2.312KHz			
Power Supply		Environment	Measured	Deviation (kHz)	Limit +/- (kHz)
VDC		Temperature (°C)	Frequency(MHz)		
7.50		60	462.562303	-0.107	1.156
		50	462.562386	-0.114	1.156
		40	462.562421	-0.079	1.156
		30	462.562455	-0.045	1.156
		20	462.562470	-0.030	1.156
		10	462.562485	-0.015	1.156
		0	462.562533	0.033	1.156
		-10	462.562574	0.074	1.156
		-20	462.562723	0.223	1.156
		-30	462.562948	0.448	2.312

20°C		Reference Frequency:		462.5625	MHz
Limit: 2.5 ppm =		1.156		kHz	
Power Supply		Environment	Measured	Deviation (kHz)	Limit +/- (kHz)
VDC		Temperature (°C)	Frequency(MHz)		
8.63	High	20	462.562470	-0.030	1.156
7.50	Normal	20	462.562469	-0.031	1.156
6.38	low	20	462.562472	-0.028	1.156
4.70	End Point	20	462.562475	-0.025	1.156

Note:

1. For FRS device Temperature range: -20 ~ +50
2. For GMRS device Temperature range: -30 ~ +50



7.6 RADIO FREQUENCY EXPOSURE

LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §15.247(b)(4) and §1.1307(b)(1) of this chapter.

EUT SPECIFICATION

EUT	Walkie-Talkie
Frequency band (Operating)	☐ WLAN: 2.412GHz ~ 2.462GHz ☐ WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz ☐ WLAN: 5.745GHz ~ 5825GHz ☒ Others <u>462.5625MHz ~ 467.7125MHz</u>
Device category	☒ Portable (<20cm separation) ☐ Mobile (>20cm separation) ☐ Others _____
Exposure classification	☐ Occupational/Controlled exposure ($S = 5mW/cm^2$) ☒ General Population/Uncontrolled exposure ($S=1mW/cm^2$)
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	27.09dBm (511.68mW)
Antenna gain (Max)	-1.42 dBi (Numeric gain:0.721)
Evaluation applied	☐ MPE Evaluation ☒ SAR Evaluation*
Note: 1. The maximum output power is <u>27.09dBm (511.68mW)</u> at <u>462.5625MHz</u> (with <u>0.721</u> numeric antenna gain.) 2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance. 3. For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20 cm, even if the calculations indicate that the MPE distance would be lesser.	

TEST RESULTS

No non-compliance noted.

MPE EVALUATION

Not applicable.

Please refer to SAR test report.