NVLAP LAB CODE 200707-0

FCC PART 95

MEASUREMENT AND TEST REPORT

For

The Hear Now Inc

#117, 10836-24 Street SE Calgary, AB, T2Z 4C9, Canada.

FCC ID: VPBTHN1C

This Report Concerns: ☒ Original Report	**Equipment Type:** FRS/GMRS
Test Engineer:	William Chan Merry Zhao
Report No.:	RSZ07060106
Test Date:	2007-06-14 to 2007-11-28
Report Date:	2007-11-28
Reviewed By:	EMC Manager: Boni Baniqued
Prepared By:	Bay Area Compliance Laboratory Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *The Hear Now Inc*'s product, model number: *THN1C* or the "EUT" as referred to in this report is a *FRS/GMRS*. The EUT is measured approximately 4.5 cm L x 2.5 cmW x 8.5 cmH, rated input voltage: DC 3.7 V Battery and DC 6V adapter, with permanent Antenna 2.0 cm.

AC/DC Adapter Model: MD-6150
Input: 120 V/60Hz, Output: 6 VDC 150mA.

** All measurement and test data in this report was gathered from production sample serial number: 0706006 (Assigned by BACL, Shenzhen). The EUT was received on 2007-06-01.*

Objective

This Type approval report is prepared on behalf of *The Hear Now Inc* in accordance with Part 2, Subpart J, and Part 95 of the Federal Communication Commissions rules.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All tests and measurements indicated in this document were performed in accordance with Part 95 Subpart B and Subpart E of the Federal Communication Commissions rules.

All emissions measurement was performed and Bay Area Compliance Laboratory Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratory Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratory Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179 and Industrial Canada registration test site No.: 5500A. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0). The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

Equipment Modifications

Bay Area Compliance Laboratory Corp. (Shenzhen) has not done any modification on the EUT.

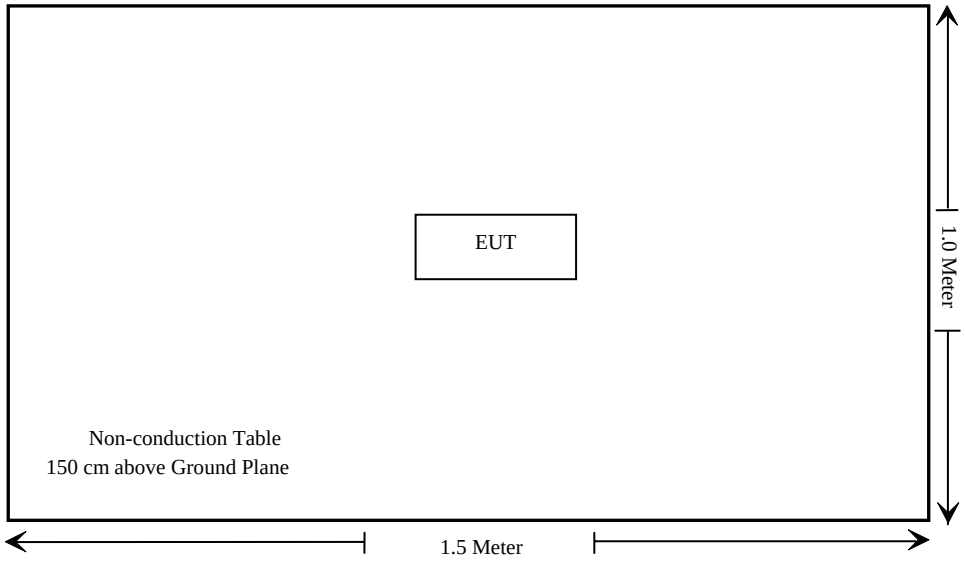
Configuration of Test Setup

Lie

Side

Stand

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§2.1093 & §1.1307(b)(1)	RF Exposure	Compliant
§2.1046, §95.639(d)	RF Output Power	Compliant
§2.1047 §95.637(a)	Modulation Characteristic	Compliant
§2.1049 §95.633 (a)(c)	Occupied Bandwidth and Emission Mask	Compliant
§2.1053 §95.635(b) (7)	Radiated Spurious Emissions	Compliant
§ 2.1055, § 95.627(b) & § 95.621	Frequency stability	Compliant

§2.1093 & §1.1307(b) (1) RF EXPOSURE

Standard Applicable

According to § 1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to FCC Exclusion list, In the following table, fGHz is mid-band frequency in GHz, and d is the distance to a person'sbody, excluding hands, wrists, feet, and ankles.

Exposure category	low threshold	high threshold
general population	$(60/f_{GHz})$ mW, $d < 2.5$ cm $(120/f_{GHz})$ mW, $d \geq 2.5$ cm	$(900/f_{GHz})$ mW, $d < 20$ cm
occupational	$(375/f_{GHz})$ mW, $d < 2.5$ cm $(900/f_{GHz})$ mW, $d \geq 2.5$ cm	$(2250/f_{GHz})$ mW, $d < 20$ cm

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

Measurement Result:

This is a portable device and the Max peak output power is 2.7 mW which is less than the low threshold of 260mW = (60/0.462GHz) mW × 2

The SAR measurement is not required.

§2.1046 and §95.639(d) - RF OUTPUT POWER

Applicable Standard

Per FCC §2.1046, and §95.639(d), No FRS Unit, under any condition of modulation, shall exceed a 0.500 w effective radiated power (ERP).

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Signal Generator	HP8657A	2849U00982	2006-09-29	2007-09-29
Rohde&Schwarz	EMI Test Receiver	ESCI	100035	2006-09-29	2007-09-29
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2006-08-14	2007-08-14
COM POWER	Dipole Antenna	AD-100	041000	2006-09-25	2007-09-25

*** Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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.

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 1g (TXpwr in Watts/0.001)-the absolute level

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.5kPa

The testing was performed by William Chan on 2007-06-27.

Test Mode: Transmitting

Indicated		Table	Test Ant.		Substituted			Antenna Gain (dBi)	Cable Loss (dB)	FCC Part 95 A/B			
Freq. (MHz)	Meter Reading (dBuV/m)	Angle Degree	Height (m)	Polar H/V	Freq. (MHz)	Level (dBm)	Polar H/V			Absolute Level (dBm)	Absolute Level (W)	Limit (W)	Comments
462.6375	78.86	0	1.50	V	462.6375	8.2	V	0	3.86	4.34	0.0027	0.5	FRS (CH4)
467.6375	78.37	0	1.50	V	467.6375	8.1	V	0	3.87	4.23	0.0026	0.5	FRS (CH 11)
462.6250	78.46	0	1.50	V	462.6250	7.9	V	0	3.86	4.04	0.0025	5	GMRS (CH 18)

Test Result: Pass

§2.1047 and §95.637(a) - MODULATION CHARACTERISTIC

Applicable Standard

§2.1047 & §95.637:

(a) Equipment which utilizes voice modulated communication shall show the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz. for equipment which is required to have a low pass filter, the frequency response of the filter, or all of the circuitry installed between the modulation limited and the modulated stage shall be supplied.

(b) Equipment which employs modulation limiting, a curve showing the percentage of modulation versus the modulation input voltage shall be supplied.

(c) A FRS Unit that transmits emission type F3E must not exceed peak frequency deviation of plus or minus 2.5 kHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Modulation Analyzer	8901B	3438A05208	2007-03-01	2008-03-01
NANYAN	Audio Generator	NY2201	019829	2006-12-23	2007-12-23

*** Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

Test Method: TIA/EIA-603 2.2.3

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.5kPa

The testing was performed by William Chan on 2007-06-27.

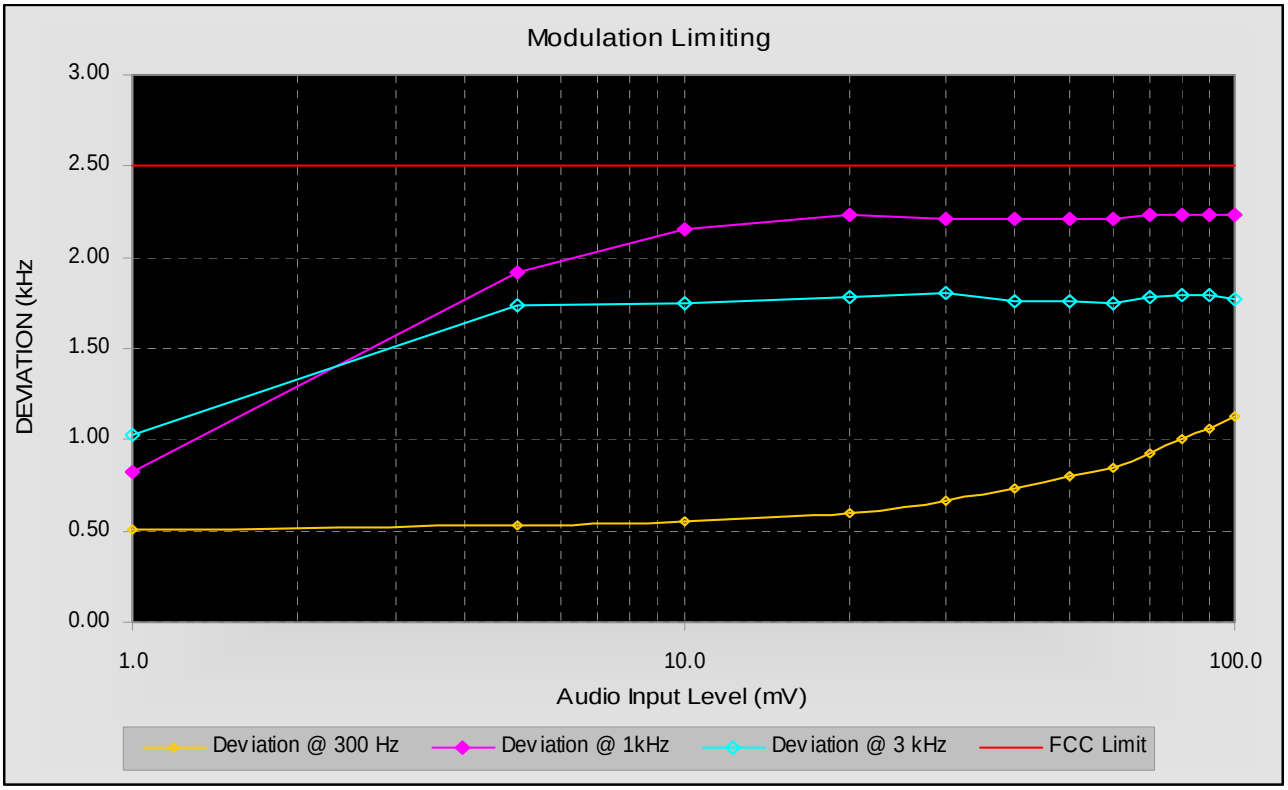
Test Mode: Transmitting

Test Result: Pass

FRS – Channel 4

Carrier Frequency: 462.6375 MHz

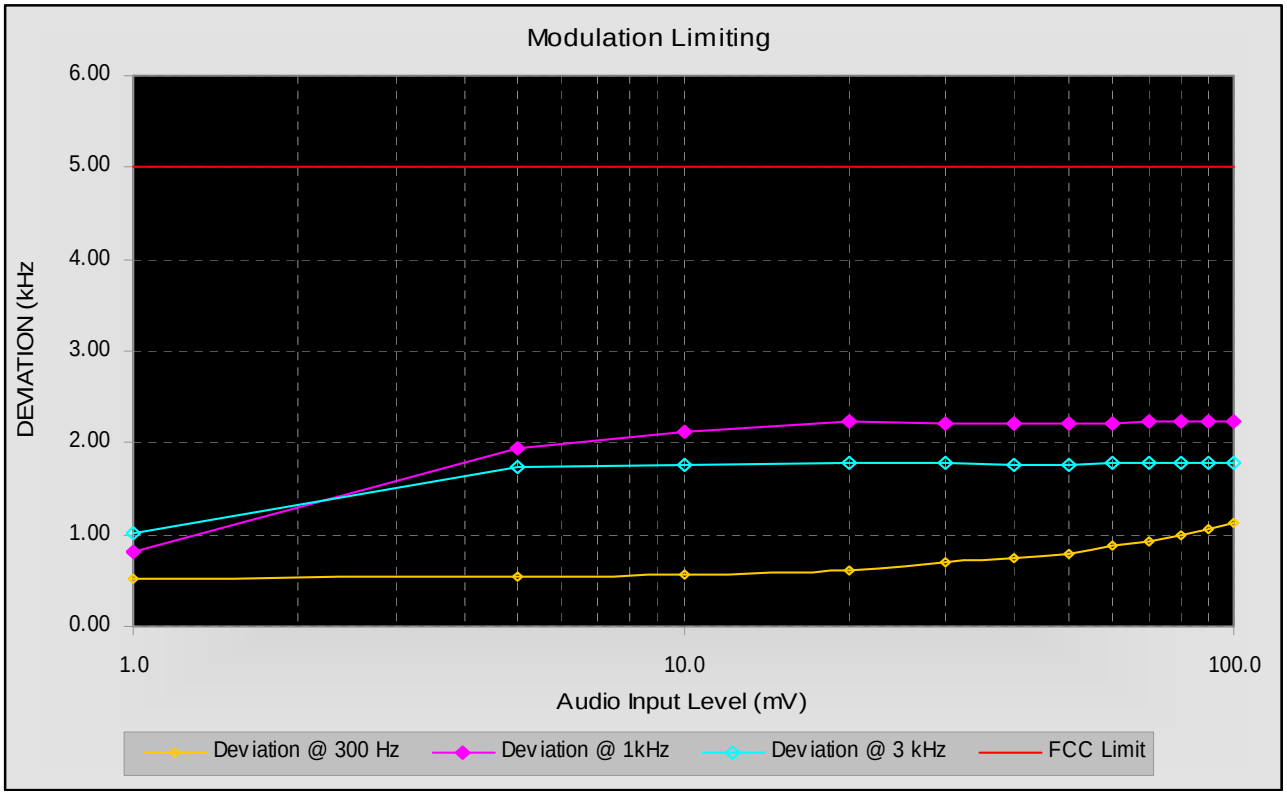
AUDIO INPUT LEVEL [mV]	DEVIATION (@300Hz) [kHz]	DEVIATION (@ 1kHz) [kHz]	DEVIATION (@ 3kHz) [kHz]	FCC Limit [kHz]
1.0	0.51	0.82	1.03	2.5
5.0	0.53	1.92	1.74	2.5
10.0	0.55	2.15	1.75	2.5
20.0	0.60	2.23	1.78	2.5
30.0	0.67	2.21	1.81	2.5
40.0	0.73	2.21	1.76	2.5
50.0	0.80	2.21	1.76	2.5
60.0	0.85	2.21	1.75	2.5
70.0	0.93	2.23	1.78	2.5
80.0	1.00	2.23	1.79	2.5
90.0	1.06	2.23	1.79	2.5
100.0	1.13	2.23	1.77	2.5



GMRS – Channel 18

Carrier Frequency: 462.6250 MHz

AUDIO INPUT LEVEL [mV]	DEVIATION (@300Hz) [kHz]	DEVIATION (@ 1kHz) [kHz]	DEVIATION (@ 3kHz) [kHz]	FCC Limit [kHz]
1.0	0.52	0.82	1.02	5.0
5.0	0.55	1.93	1.73	5.0
10.0	0.57	2.12	1.77	5.0
20.0	0.62	2.24	1.79	5.0
30.0	0.69	2.22	1.78	5.0
40.0	0.75	2.22	1.76	5.0
50.0	0.80	2.22	1.76	5.0
60.0	0.87	2.22	1.78	5.0
70.0	0.93	2.24	1.78	5.0
80.0	1.00	2.24	1.79	5.0
90.0	1.05	2.24	1.79	5.0
100.0	1.12	2.24	1.79	5.0

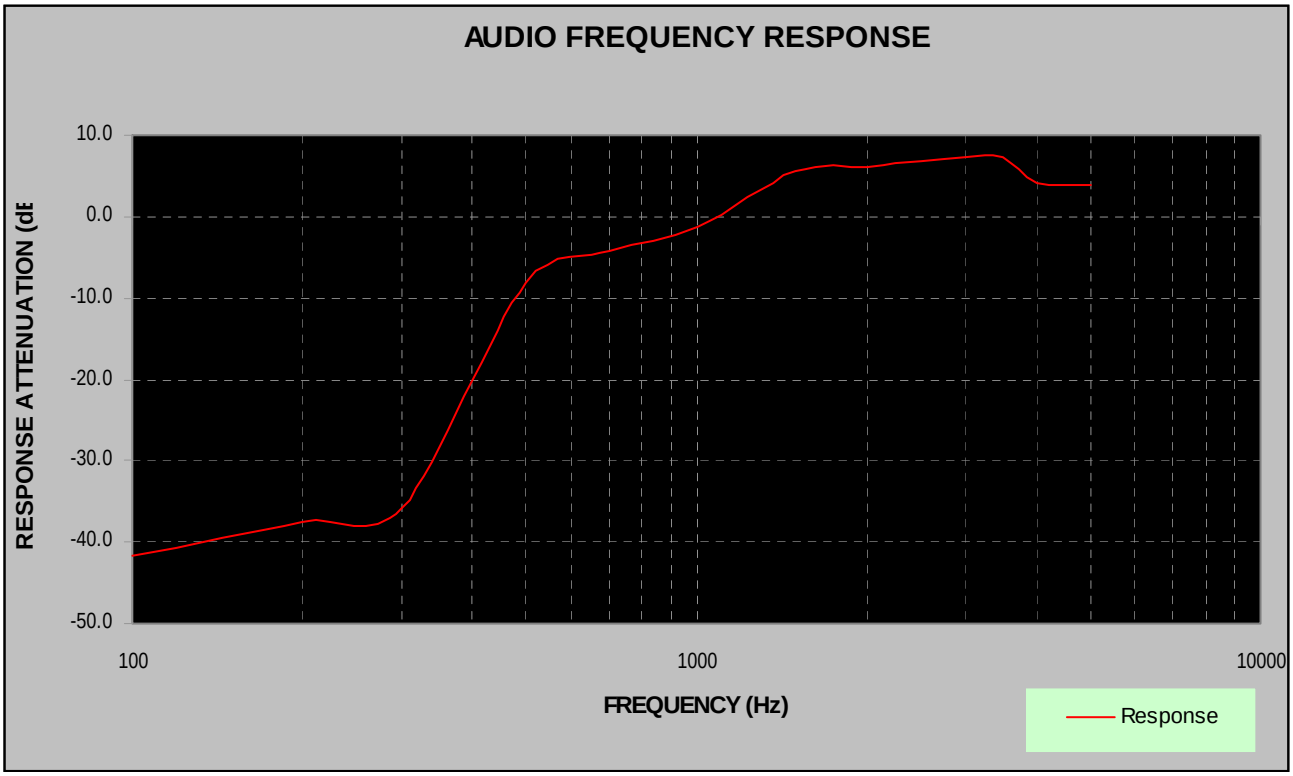


AUDIO FREQUENCY RESPONSE

FRS – Channel 4

Carrier Frequency: 462.6375 MHz

Audio Frequency (Hz)	Response Attenuation (dB)
100	-41.6
200	-37.5
300	-35.8
500	-8.2
700	-4.3
1000	-1.2
1500	5.6
2000	6.2
2500	6.8
3000	7.3
3500	7.2
4000	4.1
5000	3.9

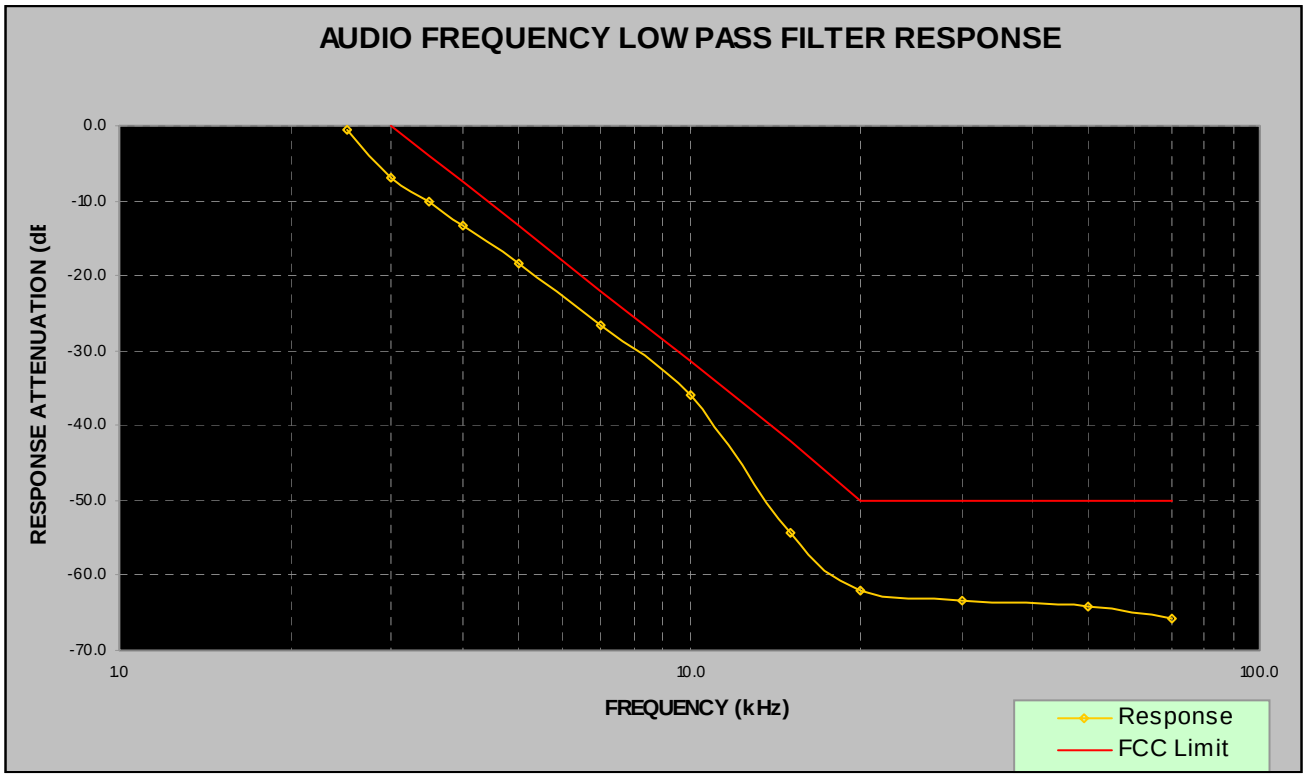


AUDIO FREQUENCY LOW PASS FILTER RESPONSE

FRS – Channel 4

Carrier Frequency: 462.6375 MHz

Audio Frequency (kHz)	Response Attenuation (dB)	FCC Limit (dB)
2.5	-0.4	/
3.0	-6.8	0.0
3.5	-10.2	-4.0
4.0	-13.4	-7.5
5.0	-18.4	-13.3
7.0	-26.7	-22.1
10.0	-35.8	-31.4
15.0	-54.3	-42.0
20.0	-62.1	-50.0
30.0	-63.4	-50.0
50.0	-64.2	-50.0
70.0	-65.7	-50.0

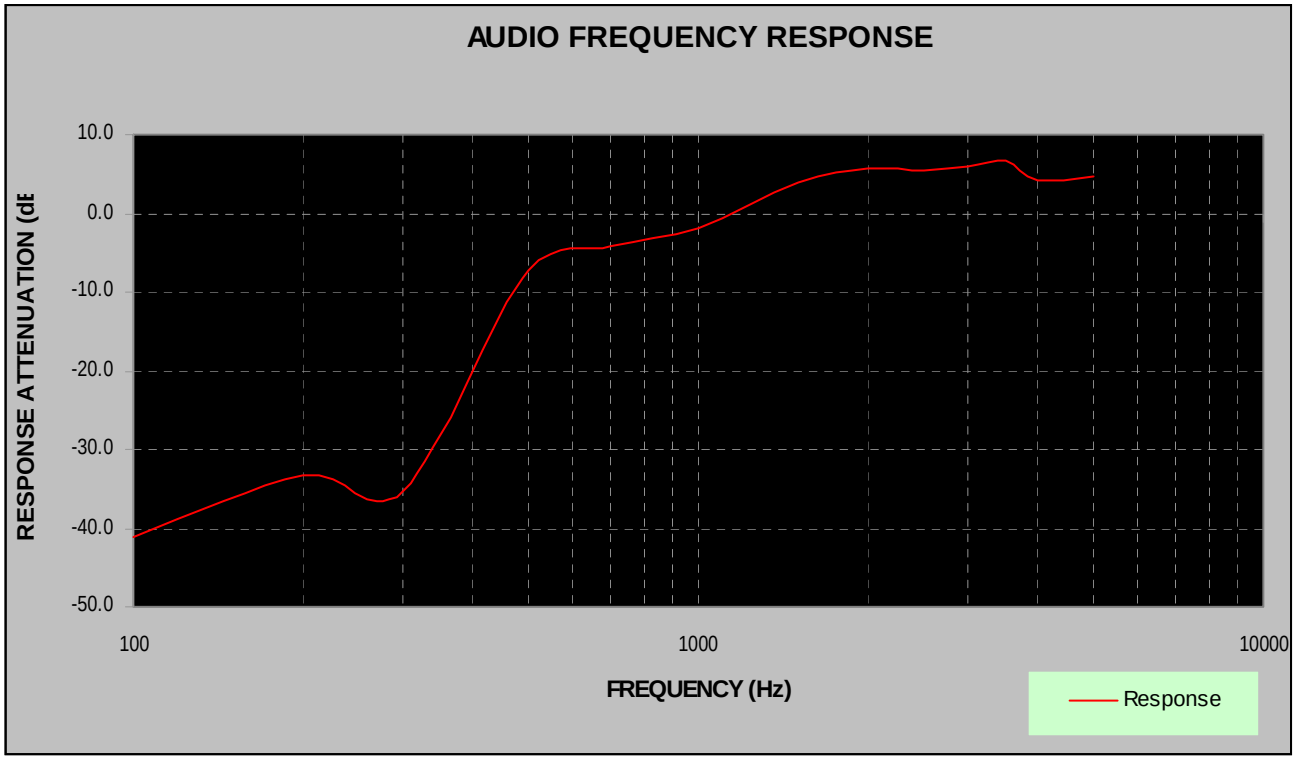


AUDIO FREQUENCY RESPONSE

GMRS – Channel 18

Carrier Frequency: 462.6250 MHz

Audio Frequency (Hz)	Response Attenuation (dB)
100	-41.2
200	-33.4
300	-35.2
500	-7.1
700	-4.1
1000	-1.8
1500	3.8
2000	5.8
2500	5.5
3000	5.9
3500	6.7
4000	4.3
5000	4.6

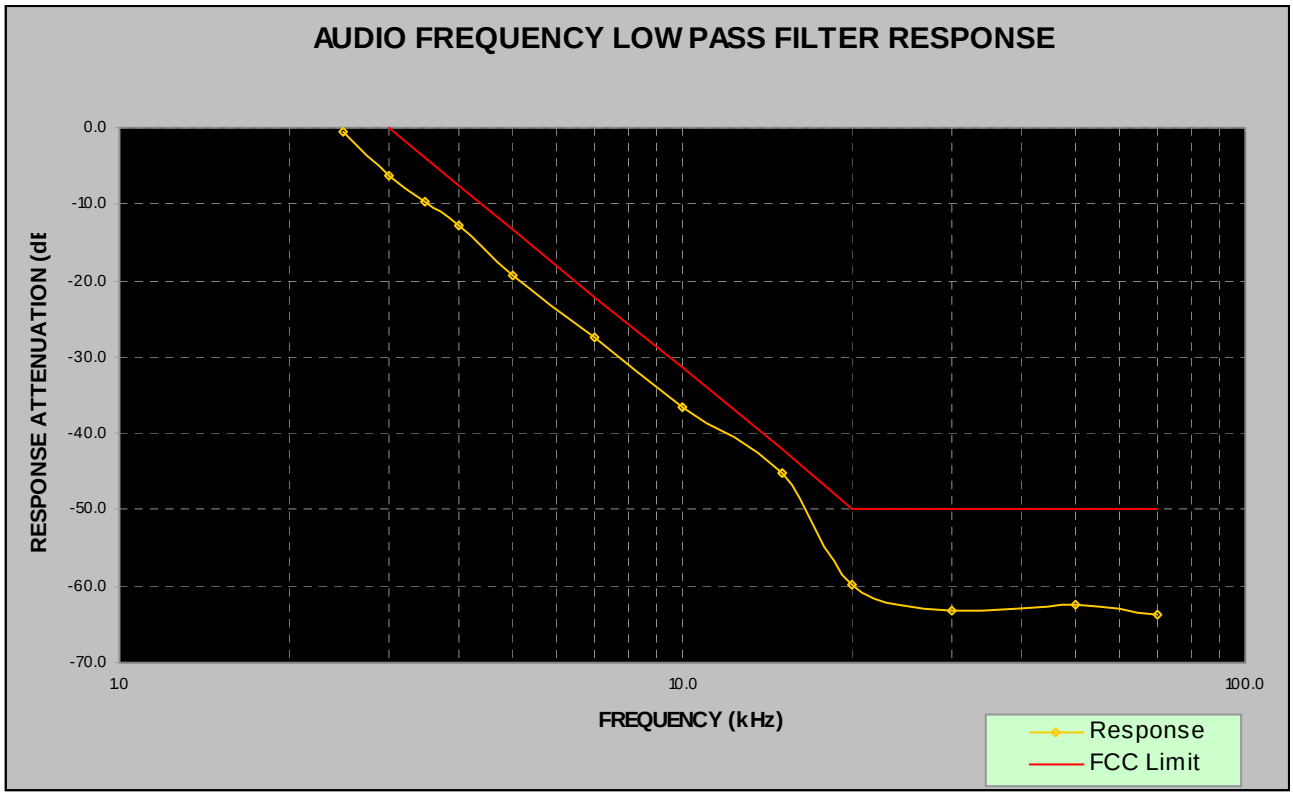


AUDIO FREQUENCY LOW PASS FILTER RESPONSE

GMRS – Channel 18

Carrier Frequency: 462.6250 MHz

Audio Frequency (kHz)	Response Attenuation(dB)	FCC Limit (dB)
2.5	-0.6	/
3.0	-6.2	0.0
3.5	-9.7	-4.0
4.0	-12.8	-7.5
5.0	-19.4	-13.3
7.0	-27.4	-22.1
10.0	-36.5	-31.4
15.0	-45.2	-42.0
20.0	-59.7	-50.0
30.0	-63.1	-50.0
50.0	-62.5	-50.0
70.0	-63.8	-50.0



§2.1049 and § 95.633(a) (c) - OCCUPIED BANDWIDTH AND EMISSION MASK

Applicable Standard

Per FCC §2.1049 and FCC §95.633 (c), the authorized bandwidth for emission type F3E or F2D transmitted by an FRS Unit is 12.5 kHz and the authorized bandwidth for emission type F1D, G1D, F3E or G3E is 20 kHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
NANYAN	Audio Generator	NY2201	019829	2006-12-23	2007-12-23
Rohde&Schwarz	EMI Test Receiver	ESCI	100035	2006-09-29	2007-09-29

*** Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

The antenna was disconnected from the transmitter and the short cable was connected to the transmitter RF output.

The RF output was connected to the input of the spectrum analyzer through sufficient attenuation.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.5kPa

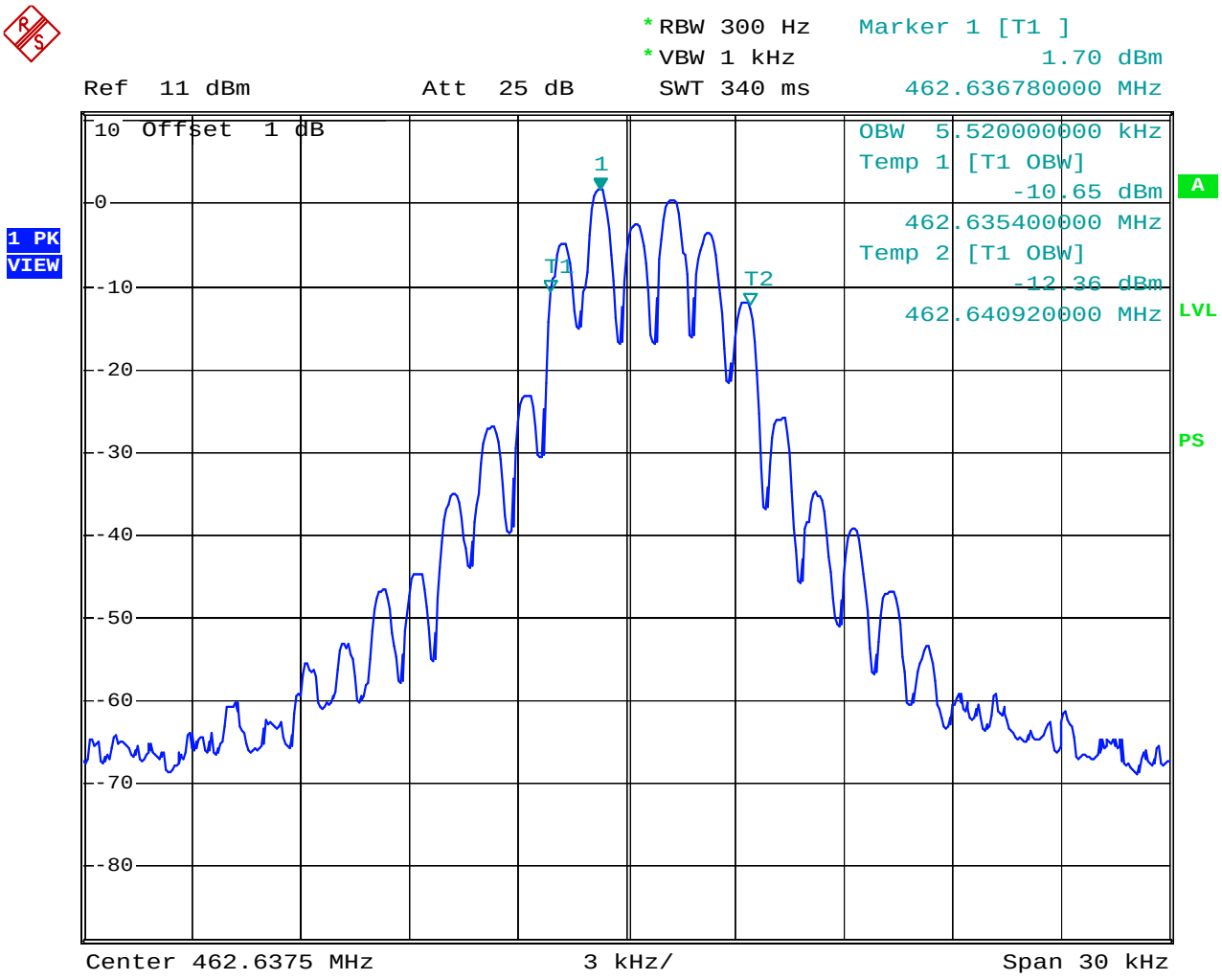
The testing was performed by William Chan on 2007-06-27 and Merry Zhao on 2007-11-28.

Test Mode: Transmitting

Test Result: Please refer to the hereinafter plots.

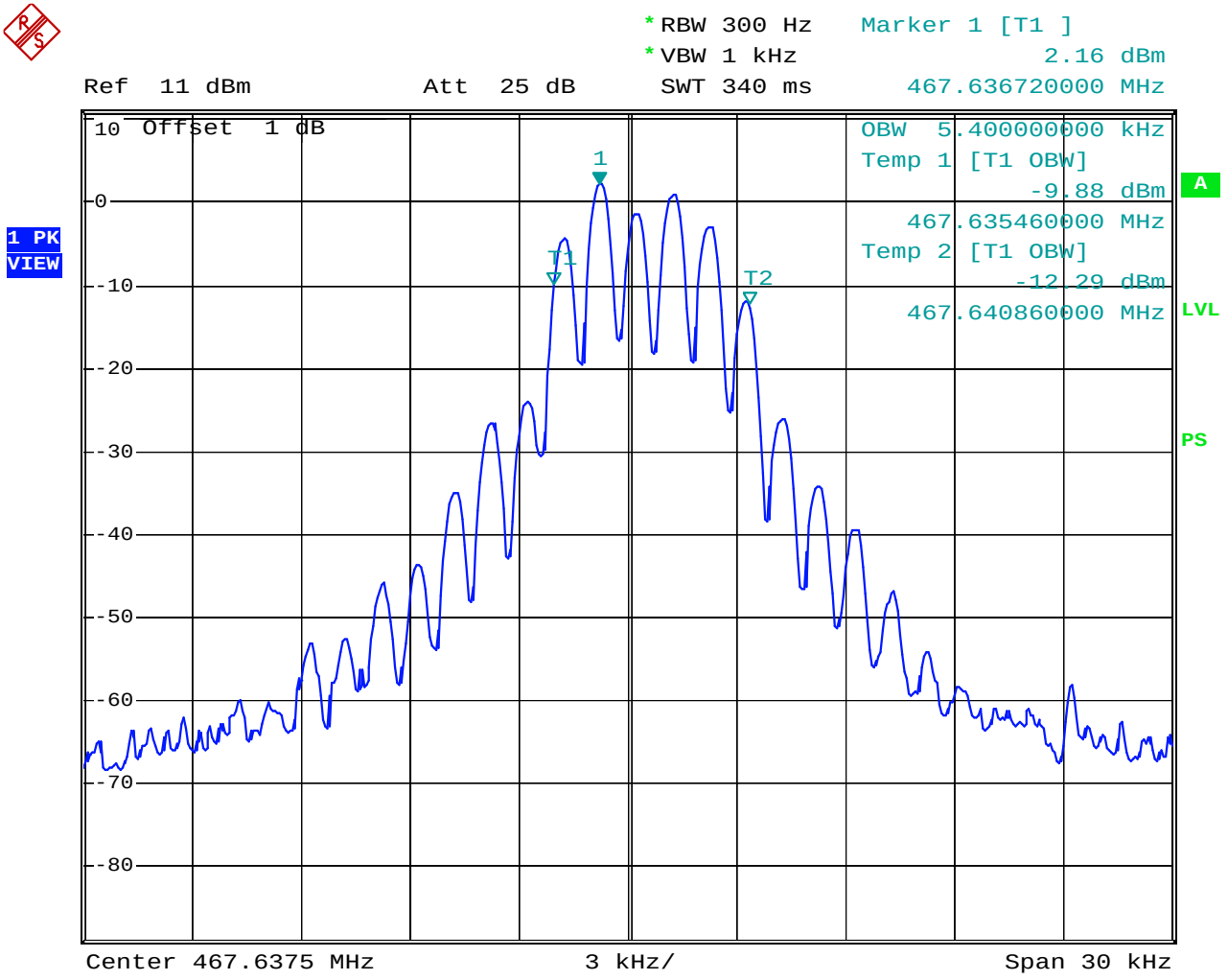
OCCUPIED BANDWIDTH

FRS – Channel 4



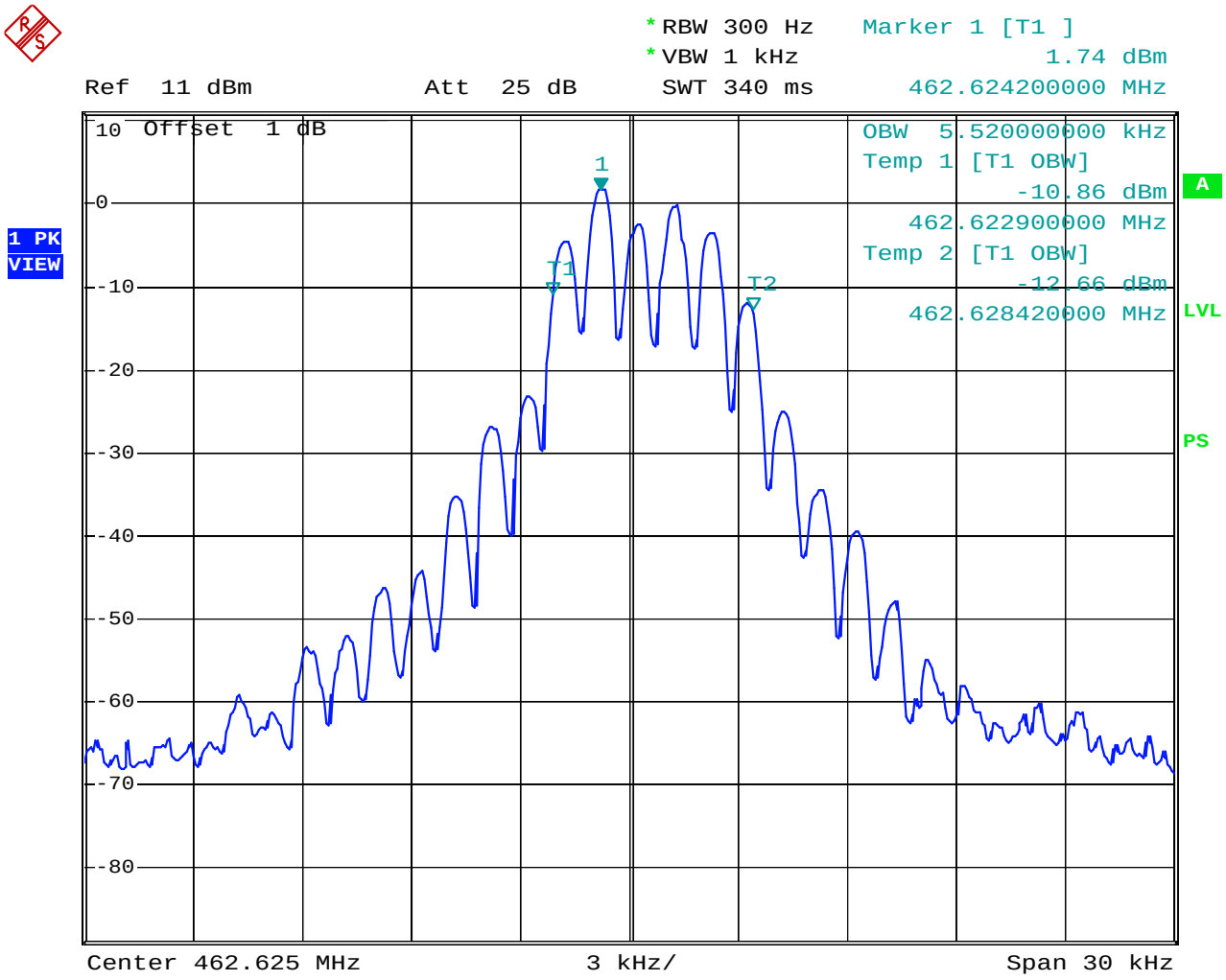
THN1C occupied bandwidth,ch4, FRS

FRS – Channel 11



THN1C occupied bandwidth,ch11, FRS

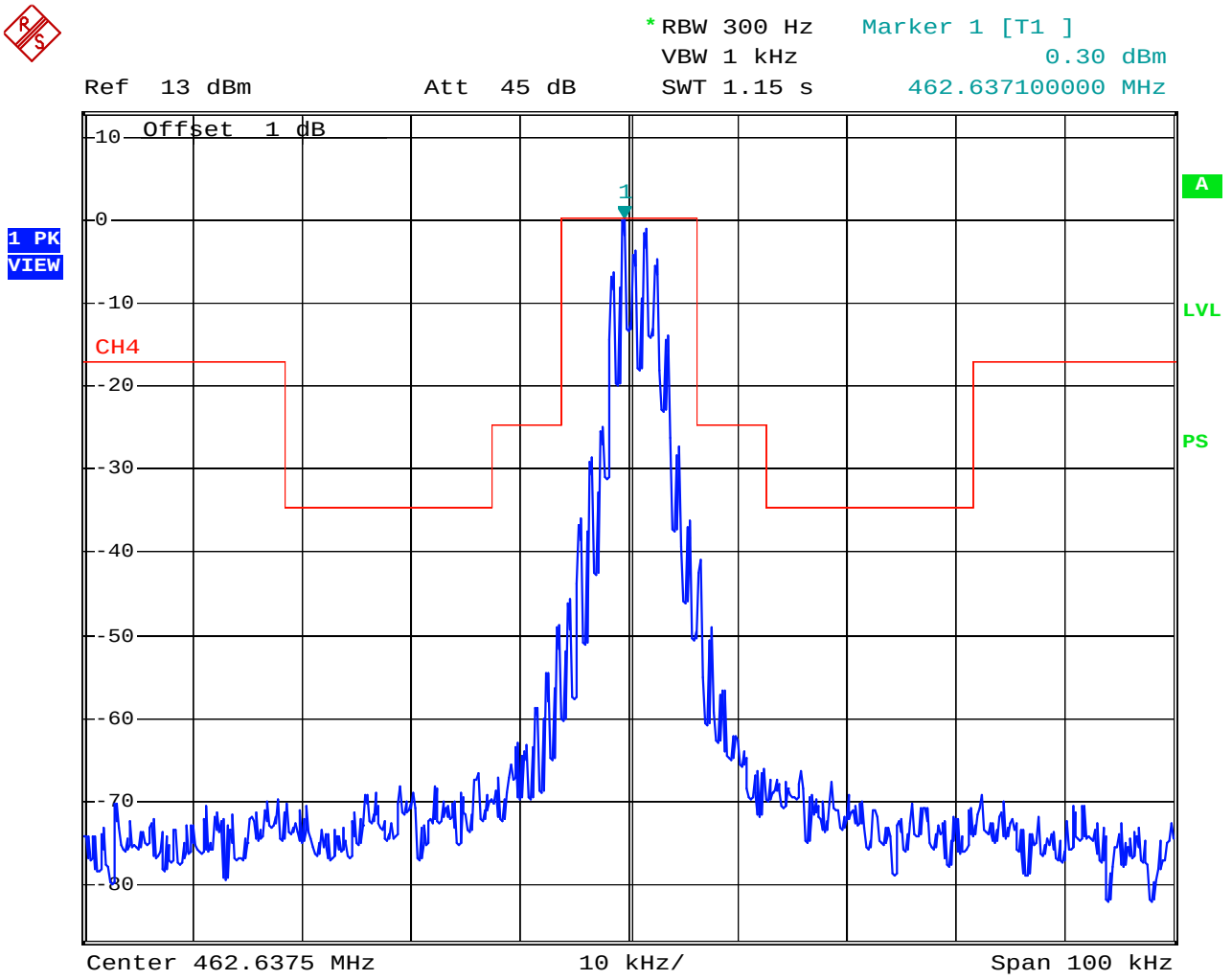
GMRS –Channel 18



THN1C occupied bandwidth,ch18,GMRS

EMISSION MASK

FRS –Channel 4



THN1C Emission Mask, FRS ,ch04

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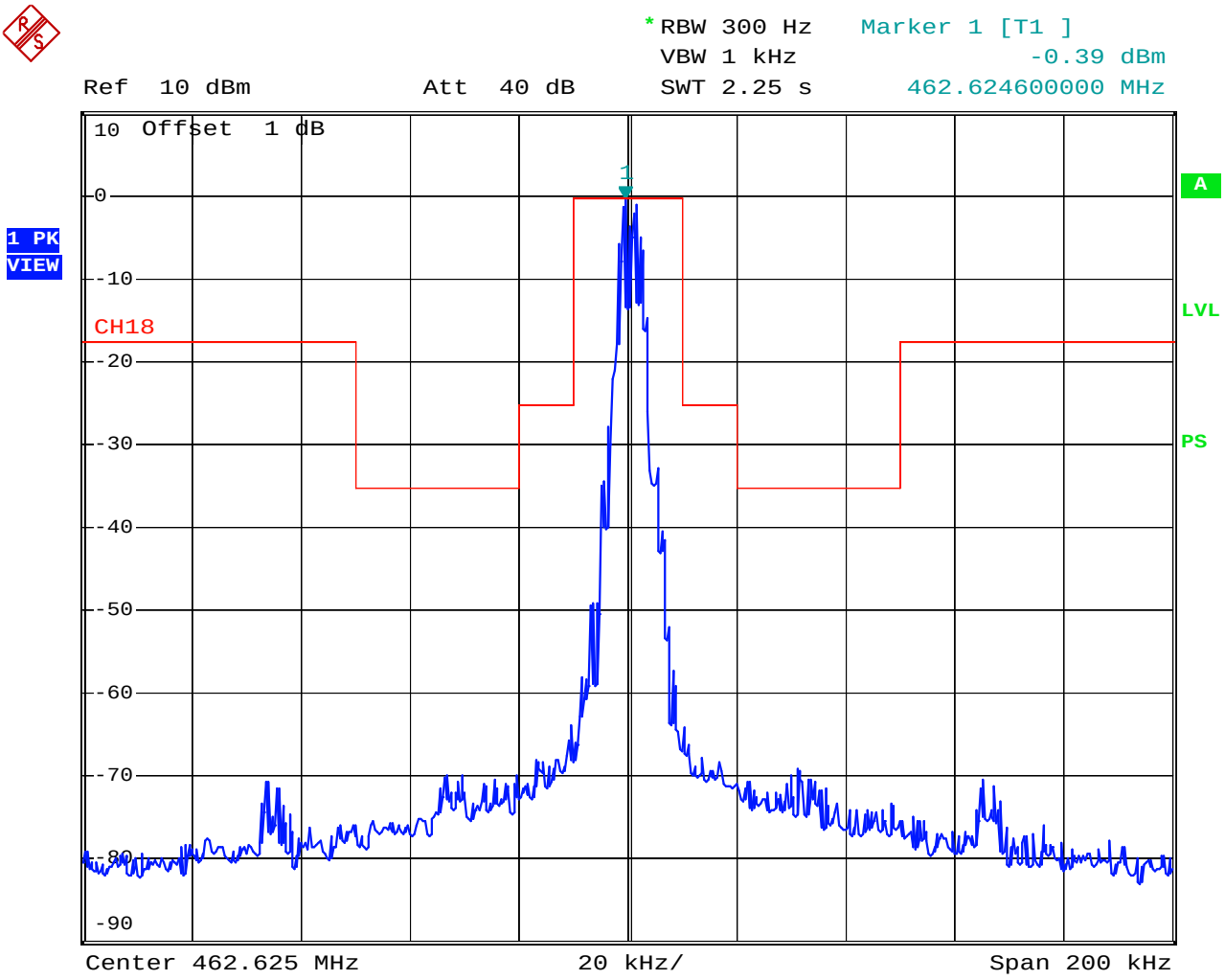
GMRS – Channel 18



THN1C Emission Mask, GMRS ,ch18

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§2.1053 and §95.635(b) (7) - RADIATED SPURIOUS EMISSIONS

Applicable Standard

§2.1053 and §95.635

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Signal Generator	HP8657A	2849U00982	2006-09-29	2007-09-29
Agilent	Spectrum Analyzer	8564E	3943A01781	2006-11-22	2007-11-22
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2006-08-14	2007-08-14
COM POWER	Dipole Antenna	AD-100	041000	2006-09-25	2007-09-25
SUNOL SCIENCES	Horn Antenna	DRH-118	A052604	2006-09-25	2007-09-25

*** Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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.

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 1g (TXpwr in Watts/0.001)-the absolute level

Spurious attenuation limit in dB = 43+10 Log_{10} (power out in Watts)

Test Results Summary

For *FRS channel CH4=462.6375 MHz*: 20.31 dB at 87.55 MHz in the **Vertical** polarization.
For *FRS channel CH11=467.6375 MHz*: 16.89 dB at 145.82 MHz in the **Vertical** polarization.
For *GMRS channel CH18=462.6250 MHz*: 15.98 dB at 145.25 MHz in the **Vertical** polarization.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.5kPa

The testing was performed by William Chan on 2007-06-14 to 2007-06-15.

Test Mode: Transmitting

FRS Channel 4

Frequency (MHz)	Polar (H/V)	Absolute Level (dBm)	Transimission Power (dBm)	Attenunation (dBc)	Spurious Attenuation Limit (dBc)	Magin (dB)
87.55	V	-33.3	4.32	37.62	17.31	20.31
87.52	H	-34.4	4.32	38.72	17.31	21.41
871.75	V	-35.81	4.32	40.13	17.31	22.82
925.275	V	-35.82	4.32	40.14	17.31	22.83
871.96	H	-36.51	4.32	40.83	17.31	23.52
1850.55	V	-36.93	4.32	41.25	17.31	23.94
925.275	H	-38.12	4.32	42.44	17.31	25.13
1850.55	H	-39.73	4.32	44.05	17.31	26.74
1387.9125	V	-40.03	4.32	44.35	17.31	27.04
600.18	V	-40.28	4.32	44.6	17.31	27.29
635.28	H	-40.82	4.32	45.14	17.31	27.83
1387.9125	H	-41.33	4.32	45.65	17.31	28.34
2313.1875	V	-41.52	4.32	45.84	17.31	28.53
2775.825	H	-41.61	4.32	45.93	17.31	28.62
2775.825	V	-42.61	4.32	46.93	17.31	29.62
2313.1875	H	-43.52	4.32	47.84	17.31	30.53

Note: Transmission Power = 0.0027 W = 4.32dBm
Spurious Attenuation Limit = 43 + 10 log (0.0027) = 17.31 dBc
Margin = Attenuation - Limit

FRS Channel 11

Frequency (MHz)	Polar (H/V)	Absolute Level (dBm)	Transimission Power (dBm)	Attenunation (dBc)	Spurious Attenuation Limit (dB)	Magin (dB)
145.82	V	-29.88	4.15	34.03	17.14	16.89
592.6	H	-34.83	4.15	38.98	17.14	21.84
935.275	V	-36.18	4.15	40.33	17.14	23.19
935.275	H	-36.38	4.15	40.53	17.14	23.39
782.72	V	-36.95	4.15	41.1	17.14	23.96
640.15	V	-37.09	4.15	41.24	17.14	24.1
1870.55	V	-37.13	4.15	41.28	17.14	24.14
782.72	H	-37.55	4.15	41.7	17.14	24.56
640.15	H	-39.19	4.15	43.34	17.14	26.2
1870.55	H	-40.23	4.15	44.38	17.14	27.24
1402.9125	V	-40.33	4.15	44.48	17.14	27.34
2805.825	H	-40.51	4.15	44.66	17.14	27.52
1402.9125	H	-42.03	4.15	46.18	17.14	29.04
2805.825	V	-43.31	4.15	47.46	17.14	30.32
2338.1875	V	-43.83	4.15	47.98	17.14	30.84
2338.1875	H	-46.93	4.15	51.08	17.14	33.94

Note: Transmission Power = 0.0026 W = 4.15dBm
Spurious Attenuation Limit = 43 + 10 log (0.0026) = 17.14dBc
Margin = Attenuation - Limit

GMRS Channel 18

Frequency (MHz)	Polar (H/V)	Absolute Level (dBm)	Transimission Power (dBm)	Attenunation (dBc)	Spurious Attenuation Limit (dB)	Magin (dB)
145.25	V	-28.98	3.98	32.96	16.98	15.98
145.25	H	-30.38	3.98	34.36	16.98	17.38
925.25	V	-33.42	3.98	37.4	16.98	20.42
545.31	V	-33.75	3.98	37.73	16.98	20.75
545.31	H	-34.85	3.98	38.83	16.98	21.85
925.25	H	-35.42	3.98	39.4	16.98	22.42
1850.5	V	-36.93	3.98	40.91	16.98	23.93
701.24	V	-37.56	3.98	41.54	16.98	24.56
1850.5	H	-38.23	3.98	42.21	16.98	25.23
701.24	H	-39.16	3.98	43.14	16.98	26.16
1387.875	H	-39.33	3.98	43.31	16.98	26.33
1387.875	V	-39.53	3.98	43.51	16.98	26.53
2313.325	H	-41.83	3.98	45.81	16.98	28.83
2775.75	V	-43.61	3.98	47.59	16.98	30.61
2775.75	H	-45.21	3.98	49.19	16.98	32.21
2313.325	V	-47.03	3.98	51.01	16.98	34.03

Note: Transmission Power = 0.0025 W = 3.98dBm
Spurious Attenuation Limit = 43 + 10 log (0.0025) = 16.98dBc
Margin = Attenuation - Limit

§2.1055 (d) and §95.627(b) & § 95.621- FREQUENCY STABILITY

Applicable Standard

According to FCC §2.1055(a)(1), the frequency stability shall be measure with variation of ambient temperature from –30ºC to +50ºC, 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 §95.627(b), Each FRS Unit must be maintained within a frequency tolerance of 0.00025%.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde&Schwarz	EMI Test Receiver	ESCI	100035	2006-09-29	2007-09-29
WUHUAN	Temperature & Humidity Chamber	HTP205	20021115	2006-12-28	2007-12-28

*** Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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 f Spectrum Analyzer 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 Spectrum Analyzer.

Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.5kPa

The testing was performed by William Chan on 2007-06-27.

Test Mode: Transmitting

Test Result: Pass; please refer to the following table.

FRS Channel 4

Frequency Stability versus Temperature

Reference Frequency: 462.6375 MHz, Limit: ±2.5 ppm			
Environment Temperature (°C)	**Power Supplied (VDC)**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
50	3.7	462.63805	+ 1.18
40	3.7	462.63795	+ 0.97
30	3.7	462.63774	+ 0.51
20	3.7	462.63762	+ 0.25
10	3.7	462.63758	+ 0.17
0	3.7	462.63752	+ 0.04
-10	3.7	462.63749	- 0.13
-20	3.7	462.63758	+ 0.17
-30	3.7	462.63772	+ 0.47

Frequency Stability versus Input Voltage

Reference Frequency: 462.6375 MHz, Limit: ±2.5 ppm			
Environment Temperature (°C)	**Power Supplied (VDC)**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
20	3.2	462.63775	+ 0.54

FRS Channel 11

Frequency Stability versus Temperature

Reference Frequency: 467.6375 MHz, Limit: ±2.5 ppm			
Environment Temperature (°C)	**Power Supplied (VDC)**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
50	3.7	467.63791	+ 0.87
40	3.7	467.63782	+ 0.68
30	3.7	467.63775	+ 0.53
20	3.7	467.63762	+ 0.25
10	3.7	467.63761	+ 0.23
0	3.7	467.63741	- 0.20
-10	3.7	467.63746	- 0.10
-20	3.7	467.63762	+ 0.25
-30	3.7	467.63765	+ 0.32

Frequency Stability versus Input Voltage

Reference Frequency: 467.6375 MHz, Limit: ±2.5 ppm			
Environment Temperature (°C)	**Power Supplied (VDC)**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
20	3.2	467.63765	+ 0.32

GMRS Channel 18

Frequency Stability versus Temperature

Reference Frequency: 462.6250 MHz, Limit: ± 5 ppm			
Environment Temperature (°C)	**Power Supplied (VDC)**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
50	3.7	462.62545	+ 0.97
40	3.7	462.62538	+ 0.82
30	3.7	462.62524	+ 0.51
20	3.7	462.62516	+ 0.34
10	3.7	462.62482	- 0.39
0	3.7	462.62478	- 0.48
-10	3.7	462.62482	- 0.39
-20	3.7	462.62491	- 0.20
-30	3.7	462.62484	- 0.35

Frequency Stability versus Input Voltage

Reference Frequency: 462.6250 MHz, Limit: ± 5 ppm			
Environment Temperature (°C)	**Power Supplied (VDC)**	**Measured Frequency (MHz)**	**Frequency Error (ppm)**
20	3.2	462.62481	-0.42

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