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APPLICANT: AUDIOVOX CORPORATION

FCC ID: BGAFR540

TEST REPORT:

EXHIBITS CONTAINING:

GENERAL_INFORMATION_REQUIRED FOR_TYPE_ACCEPTANCE

2.1033(c)(1)(2) AUDIOVOX CORPORATION will manufacture the FCCID: BGAFR540 FAMILY RADIO SERVICES 14 CHANNEL TRANSCEIVER in quantity, for use under FCC RULES PART 95.

2.1033 (c) TECHNICAL_DESCRIPTION

2.1033(c)(3) Instruction book. A draft copy of the instruction manual is included as EXHIBIT 9A-9C.

2.1033(c) (4) Type of Emission: 10K0F3E
95.629

Bn = 2M + 2DK
M = 3000
D = 2.0K
Bn = 2(3.0)+2(2.0) = 10.0K

Authorized Bandwidth 12.5KHz

2.1033(c)(5) Frequency Range: 1. 462.5625 8. 467.5625
95.627 2. 462.5875 9. 467.5875
3. 462.6125 10. 467.6125
4. 462.6375 11. 467.6375
5. 462.6625 12. 467.6625
6. 462.6875 13. 467.6875
7. 462.7125 14. 467.7125 MHz

2.1033(c)(6)(7) Power Output shall not exceed 0.500Watts effective
95.637 radiated power. There can be no provisions for
95.647 increasing the power or varing the power. The Maximum Output Power Rating: 300 milliWatts effective radiated power.

95.645 The antenna is an intergral part to the unit, it cannot be removed without rendering the unit inoperative. In order to remove the antenna the case must unscrewed, then the PCB assemblies must be removed then the antenna can be removed.

2.1033(c)(8) DC Voltages and Current into Final Amplifier:

FINAL AMPLIFIER ONLY
Vce = 4.5 Volts DC Ice = 0.12A.
Pin = 0.54 Watts

2.1033(c)(9) Tune-up procedure. The tune-up procedure is included as Exhibit 8A-8B.

2.1033(c)(10) Complete Circuit Diagrams: The circuit diagram is included as EXHIBIT 5A-5B of this report. The block diagrams are included as EXHIBIT 4A-4B of this report.

2.1033(c)(11) A photograph or a drawing of the equipment identification label is included as EXHIBIT 1.

2.1033(c)(12) Photographs(8"X10") of the equipment of sufficient clarity to reveal equipment construction and layout, including meters, labels for controls, including any view under shields are included as EXHIBIT 3A-3F.

2.1033(c)(13) Digital modulation is not allowed.

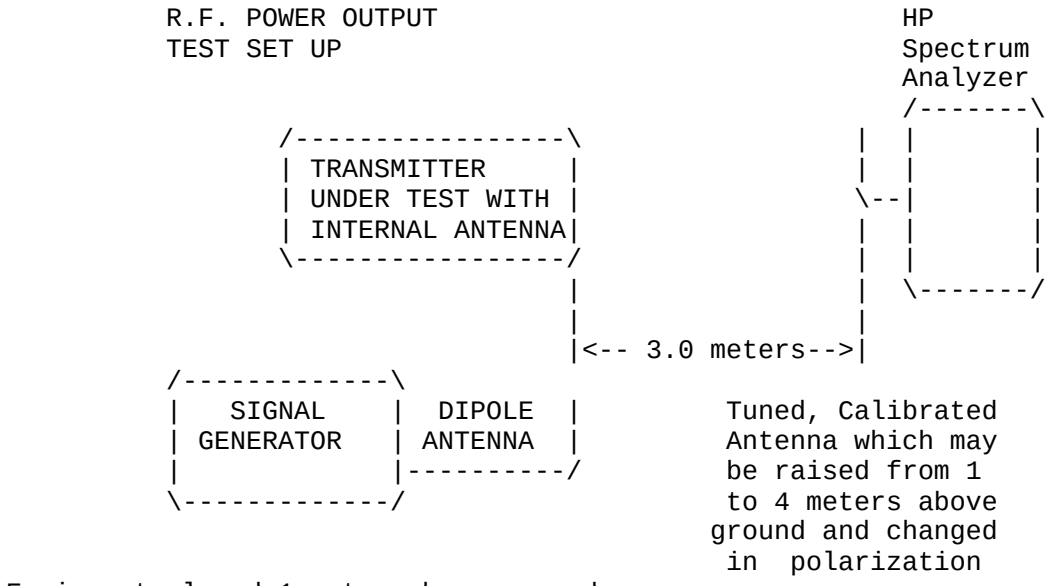
2.1033(c)(14) The data required by 2.1046 through 2.1057 is submitted below.

2.1046(a) RF_power_output.

95.637 RF power is measured by measuring the radiated power at 3 meters and then replacing the transmitter with a signal generator to determine the effective radiated power. The ERP shall not exceed 0.500 Watts.

MEASURED POWER OUTPUT = 300 milliWatts ERP

R.F. POWER OUTPUT TEST SET UP



Equipment placed 1 meter above ground on a rotatable platform.

2.1047(a)(b) Modulation_characteristics:

AUDIO_FREQUENCY_RESPONSE

The audio frequency response was measured in accordance with TIA/EIA Specification 603. The audio frequency response curve is shown on the next page. The audio signal was fed into a dummy microphone circuit and into the microphone connector. The input required to produce 30 percent modulation level was measured. See EXHIBIT #: 10.

2.1047(b) Audio_input_versus_modulation

The audio input level needed for a particular per-percentage of modulation was measured in accordance with TIA/EIA Specification 603. The audio input curves versus modulation are on the following pages. Curves are provided for audio input frequencies of 300, 1000, and 3000 Hz. See EXHIBIT # 11A-11C.

95.635(b) Post Limiter Filter The filter must be between the modulation limiter and the modulated stage. At any frequency between 3 & 20KHz the filter must have an attenuation of 60log (f/3) greater tha the attenuation at 1KHz. See the EXHIBIT #: 12.

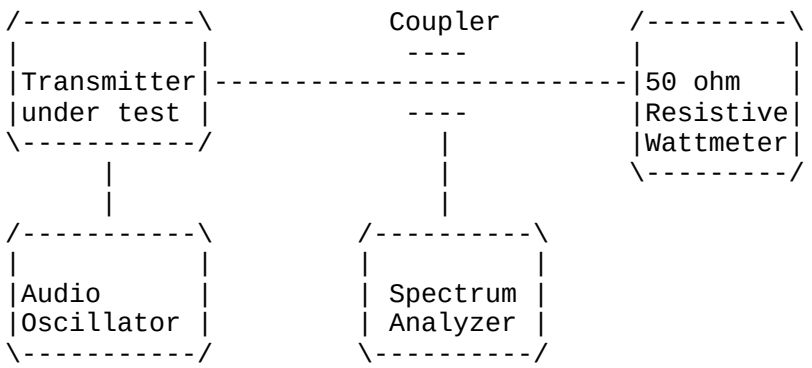
2.989(c) EMISSION BANDWIDTH:
95.633(b)(1)(3)(7)

Data in the plots shows that the sidebands from greater than 50% to 100% of the authorized bandwidth must be attenuated by at least 25dB and from 100 to 250% the sidebands must be attenuated by at least 35dB. Beyond 250% the sidebands must be attenuated by at least 43+log10(TP). The transmitter was modulated with 2500 Hz, adjusted for 50% modulation plus 16 dB. The spectrum analyzer was set with the unmodulated carrier at the top of the screen. The test procedure diagram and occupied bandwidth PLOTS follow.

Radiotelephone transmitter with modulation limiter.

Test procedure diagram

OCCUPIED BANDWIDTH MEASUREMENT



2.1051 Not Applicable, no antenna terminal allowed.

2.1053 UNWANTED_RADIATION:
95.635(b)(7)

REQUIREMENTS: Emissions must be attenuated by at least the following below the output of the transmitter.

43 + 10log(TP) = 43 + 10log(0.002 = 16.01dB

TEST DATA:

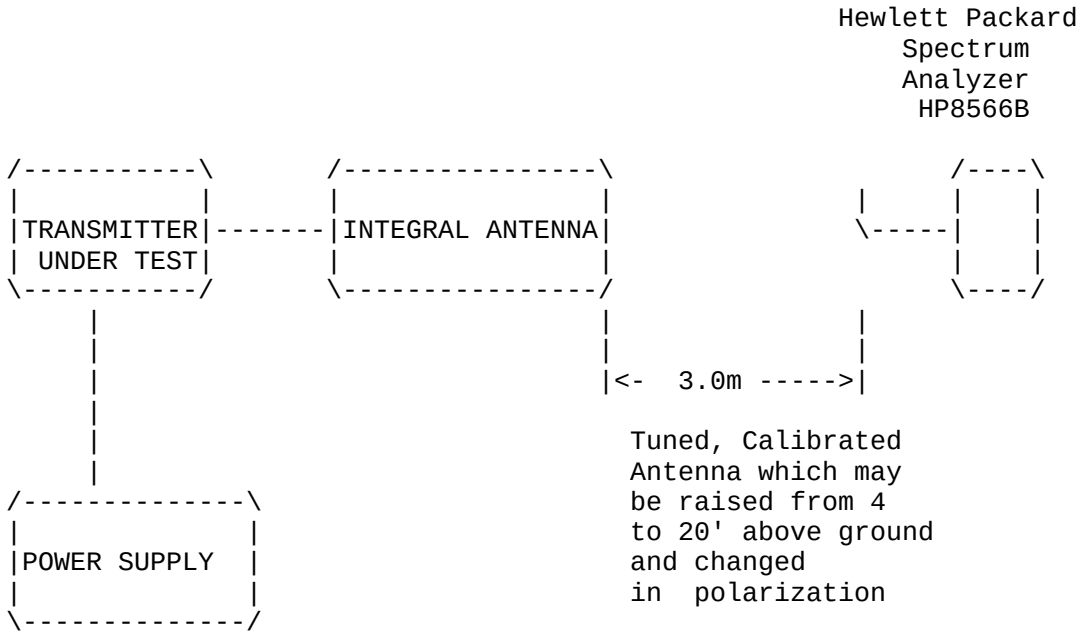
EMISSION FREQ. MHz	METER READING @ 3m dBuV	COAX LOSS dB	ACF dB	FIELD STRNGTH dBuV/m	ATT. dBuV/m	MARGIN dB	ANT.
462.69	102.90	1.60	18.44	122.94	0.0	1.43	V
925.36	42.10	2.90	24.10	69.10	53.84	13.84	V
1388.05	53.60	1.00	25.55	80.15	42.79	2.79	V
1850.71	52.90	1.01	27.40	81.31	41.63	1.63	V
2313.34	41.90	1.08	28.78	71.76	51.18	11.18	V
2775.97	42.90	1.15	29.94	73.99	48.95	8.95	V
3238.66	39.90	1.22	31.10	72.21	50.73	10.73	V
3701.35	32.80	1.29	32.25	66.34	56.60	16.60	V
4163.96	28.00	1.35	33.18	62.54	60.40	20.40	V
4626.90	27.00	1.42	33.71	62.13	60.81	20.81	V

MARGIN = (Field strength of Fund - 40dB) - FS OF EMISSION

METHOD OF MEASUREMENT: The procedure used was C63.4-1992 for intentional radiators. The spectrum was scanned from 30 to at least the tenth harmonic of the fundamental using a HP model 8566B spectrum analyzer, an Eaton model 94455-1 Biconical Antenna, ElectroMetrics antennas models TDA, TDS-25-1, TDS-25-2 and RGA-180. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. State Road 45, Newberry, FL 32669.

2.1053 UNWANTED_RADIATION:
95.631(b)(8)(9)

Method of Measuring Radiated Spurious Emissions



Equipment placed 4' above ground
on a rotatable platform.

2.1055 Frequency_stability:

Temperature and voltage tests were performed to verify that the frequency remains within the 0.00025%, 2.5 ppm specification limit. The test was conducted as follows: The transmitter was placed in the temperature chamber at 25 degrees C and allowed to stabilize for one hour. The transmitter was keyed ON for one minute during which four frequency readings were recorded at 15 second intervals. The worse 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 degrees 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 recorded for temperature plotting. This procedure was repeated in 10 degree increments up to + 50 degrees C.

Readings were also taken at plus and minus 15% of the battery voltage of 4.5 VDC.

MEASUREMENT DATA:

Assigned Frequency (Ref. Frequency): 462.712 500

TEMPERATURE_C	FREQUENCY_MHz	PPM
REFERENCE_____	462.712 500	00.00
-30_____	462.712 511	0.02
-20_____	462.712 131	-0.80
-10_____	462.712 280	-0.48
0_____	462.712 480	-0.04
+10_____	462.712 605	+0.23
+20_____	462.712 447	-0.11
+30_____	462.712 207	-0.63
+40_____	462.712 075	-0.92
+50_____	462.712 315	-0.40
-15% BATT. End-Point 3.825Vdc	462.712 326	-0.38
+15% BATT. End-Point 5.175Vdc	462.712 311	-0.41

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -0.80 to +0.23 ppm. The maximum frequency variation with voltage was -0.41ppm.

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TEST EQUIPMENT LIST

1._X_Spectrum Analyzer: HP 8566B-Opt 462, S/N 3138A07786, w/ preselector HP 85685A, S/N 3221A01400, Quasi-Peak Adapter HP 8565OA, S/N 3303A01690 & Preamplifier HP 8449B-OPT H02, S/N 3008A00372 Cal. 10/17/99
2.___Signal Generator: HP 8640B, S/N 2308A21464 Cal. 9/23/99
3.___Signal Generator: HP 8614A, S/N 2015A07428 Cal. 5/29/99
4.___Passive Loop Antenna: EMCO Model 6512, 9KHz to 30MHz, S/N 9706-1211 Cal. 6/23/97
5._X_Biconnical Antenna: Eaton Model 94455-1, S/N 1057
6._X_Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632
7.___Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153 Cal. 11/24/99
8._X_Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180, 1-18 GHz, S/N 2319 Cal. 4/27/99
9.___Horn 40-60GHz: ATM Part #19-443-6R
10.___Open Area Test Site #1-3meters Cal. 12/22/99
11.___Line Impedance Stabilization Network: Electro-Metrics Model ANS-25/2, S/N 2604 Cal. 11/30/99
12.___Line Impedance Stabilization Network: Electro-Metrics Model EM-7820, S/N 2682 Cal. 12/1/99
13._X_Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
14.___AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 9/21/99
15.___Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
16.___Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 9/21/99
17.___Oscilloscope: Tektronix Model 2230, S/N 300572 Cal 9/23/99
18._X_Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 10/6/99