

TABLE OF CONTENTS LIST

APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

TEST REPORT:

PAGE	1.....	COVER SHEET - GENERAL INFORMATION & TECHNICAL DESCR.
PAGE	2.....	TECHNICAL DESCRIPTION CONTINUED
PAGE	3.....	RF POWER OUTPUT
PAGE	4.....	MODULATION CHARACTERISTICS
PAGE	5.....	AUDIO FREQUENCY RESPONSE GRAPH
PAGE	6.....	MODULATION LIMITING GRAPH - 300HZ
PAGE	7.....	MODULATON LIMITING GRAPH - 1000HZ
PAGE	8.....	MODULATION LIMITING GRAPH - 3000HZ
PAGE	9.....	AUDIO LOW PASS FILTER GRAPH
PAGE	10.....	OCCUPIED BANDWIDTH
PAGE	11.....	OCCUPIED BANDWIDTH PLOT
PAGE	12.....	OCCUPIED BANDWIDTH PLOT - CW
PAGE	13.....	SPURIOUS EMISSIONS AT ANTENNA TERMINALS
PAGE	14.....	UNWANTED RADIATION GMRS
PAGE	15.....	UNWANTED RADIATION FRS
PAGE	16.....	METHOD OF MEASURING RADIATED SPURIOUS EMISSIONS
PAGE	17.....	FREQUENCY STABILITY
PAGE	18-21..	LIST OF TEST EQUIPMENT

EXHIBITS CONTAINING:

EXHIBIT	1.....	FCC ID LABEL SAMPLE
EXHIBIT	2.....	SKETCH OF LABEL LOCATION
EXHIBIT	3.....	EXTERNAL PHOTO - FRONT VIEW
EXHIBIT	4.....	EXTERNAL PHOTO - REAR VIEW
EXHIBIT	5.....	INTERNAL PHOTO - COMPONENT VIEW
EXHIBIT	6.....	INTERNAL PHOTO - COPPER VIEW
EXHIBIT	7.....	BLOCK DIAGRAM
EXHIBIT	8.....	SCHEMATIC
EXHIBIT	9.....	USERS MANUAL
EXHIBIT	10.....	CIRCUIT DESCRIPTION
EXHIBIT	11.....	TUNING PROCEDURE
EXHIBIT	12.....	TEST SET UP PHOTO

APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: JJcom_OAJ\656KT2\656KT2TestReport.doc

TABLE OF CONTENTS

GENERAL INFORMATION REQUIRED
FOR CERTIFICATION

2.1033(c)(1)(2) J COMMUNICATIONS CO., LTD. will manufacture the
FCCID: OAJATT655LE GMRS/FRS COMBINATION
TRANSCIVER in quantity, for use under FCC RULES
PART 95.

J COMMUNICATIONS CO., LTD.
124-4 OJEON-DONG,
UIWANG-CITY KYUNGKI-DO KOREA

2.1033 (c) TECHNICAL DESCRIPTION

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

2.1033(c) (4) Type of Emission: 10K5F3E
95.631

$B_n = 2M + 2DK$

$M = 3000$

$D = 1.75K$

$B_n = 2(3000) + 2(2250) = 10.5K$

GMRS Authorized Bandwidth 20.0 kHz

2.1033(c)(5) GMRS Frequency Range:	1. 462.5500	13. 462.7000
95.621	2. 462.5625	14. 462.7125
	3. 462.5750	15. 462.7250
	4. 462.5875	16. 467.5500
	5. 462.6000	17. 467.5750
	6. 462.6125	18. 467.6000
	7. 462.6250	19. 467.6250
	8. 462.6375	20. 467.6500
	9. 462.6500	21. 467.6750
	10. 462.6625	22. 467.7000
	11. 462.6750	23. 467.7250
	12. 462.6875	

2.10311c)(6)(7) The Maximum Output Power Rating:
GMRS - HIGH 1 Watt LOW .9 Watts
FRS - .3 Watts

FRS Authorized Bandwidth 12.5 kHz

2.1033(c)(5) FRS 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

APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: J\Jcom_OAJ656KT2\656KT2TestReport.doc

2.1033(c)(6)(7) Power Output shall not exceed 0.50 Watts effective
95.639 radiated power. There can be no provisions for
95.649 increasing the power or varying the power.

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

FOR LOW POWER SETTING INPUT POWER: $(6.0V)(.210A) = 1.26$ Watts

FOR HIGH POWER SETTING INPUT POWER: $(6.0V)(.600A) = 3.60$ Watts

2.1033(c)(9) Tune-up procedure. The tune-up procedure is included
as EXHIBIT # 11.

2.1033(c)(10) Complete Circuit Diagrams: The circuit diagram is
included as EXHIBIT 8 of this report. The block
diagrams are included as EXHIBIT 7 of this
report.

2.1033(c)(11) A photograph or a drawing of the equipment
identification label is included as exhibit No. 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. See exhibits 3-6.

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.

2.1047(a)(b) Modulation characteristics:

AUDIO FREQUENCY RESPONSE

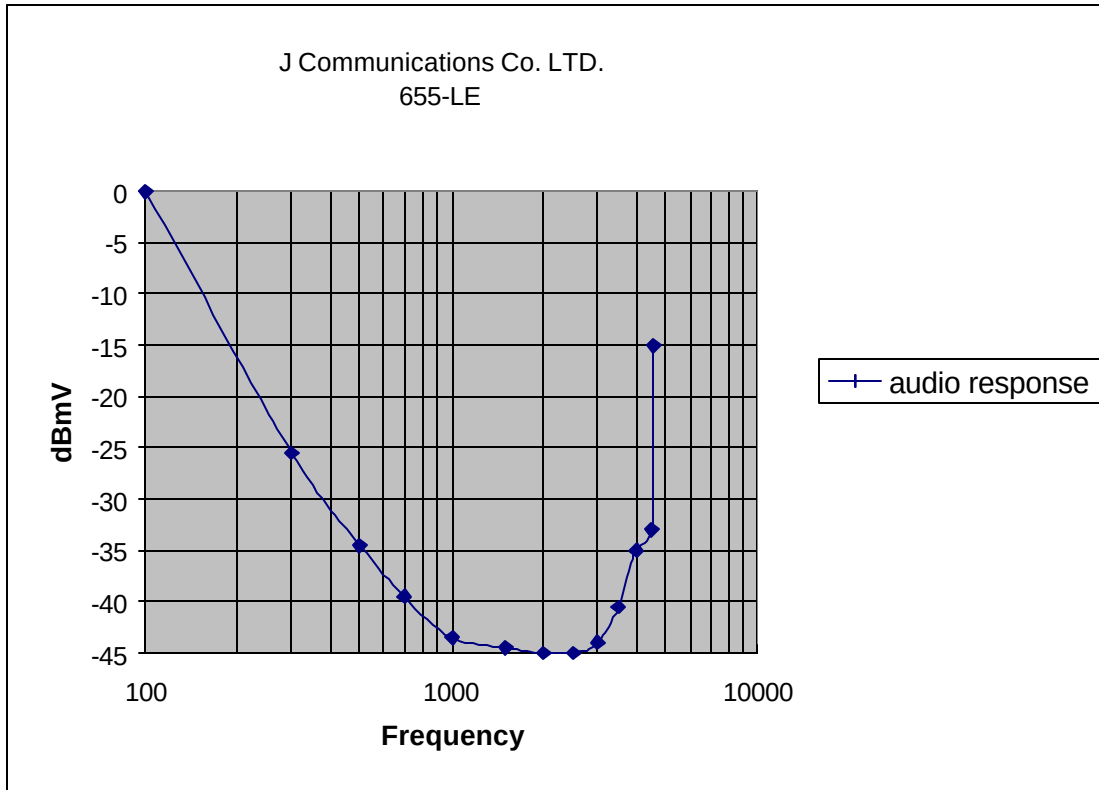
The audio frequency response was measured in accordance with TIA/EIA Specification 603. The audio frequency response curve is shown on the next page. The audio signal was fed into a dummy microphone circuit and into the microphone connector. The input required to produce 30 percent modulation level was measured. See Page 5 of report.

2.1047(b) Audio input versus modulation

The audio input level needed for a particular 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 Pages 6,7 & 8 of report.

95.637 Post Limiter Filter Each GMRS transmitter, except a mobile station transmitter with a power of 2.5Watts or less, must be equipped with an audio low pass filter. At any frequency between 3 & 20 kHz the filter must have an attenuation of $60\log(f/3)$ greater than the attenuation at 1KHz. See Page 9 of report.

AUDIO FREQUENCY RESPONSE PLOT



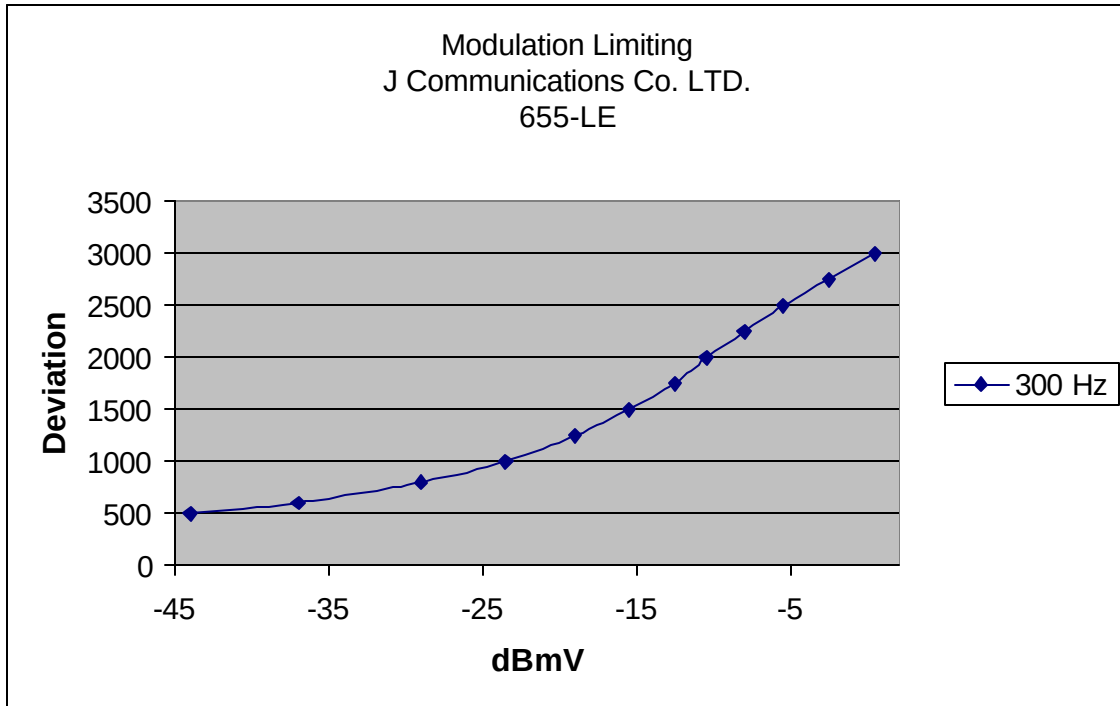
APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: JJcom_OAJ656KT2\656KT2TestReport.doc

Page 5 of 21

MODULATION LIMITING PLOT (300 Hz)



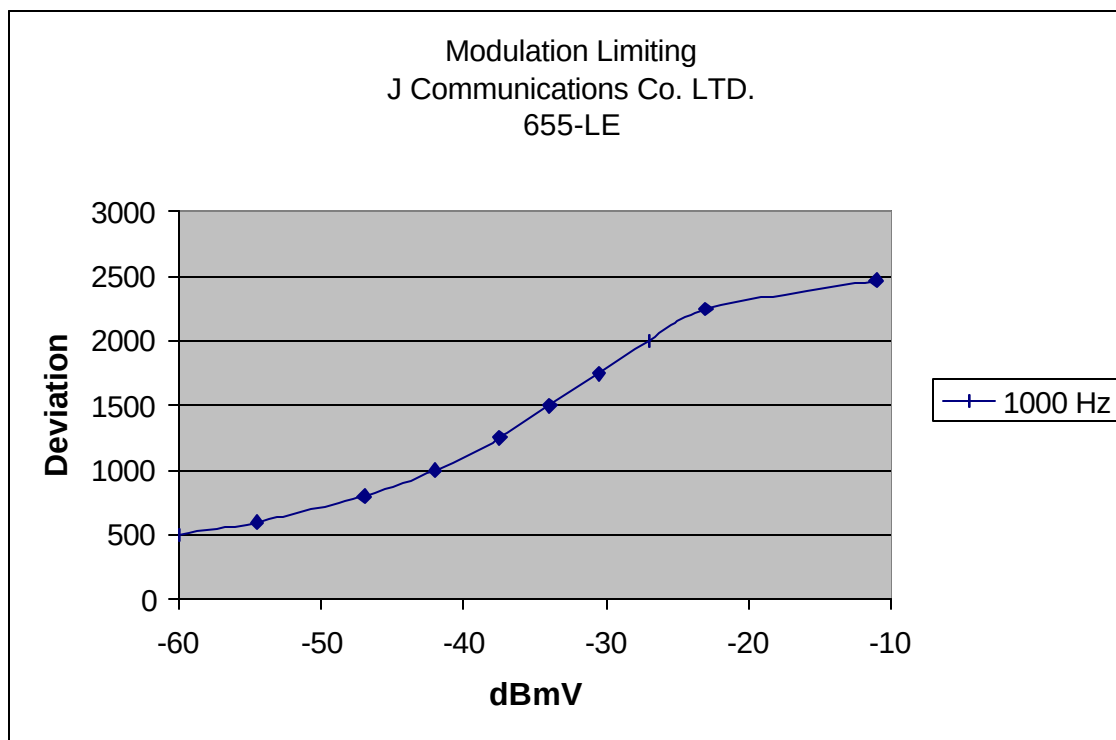
APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: J\Jcom_OAJ656KT2\656KT2TestReport.doc

Page 6 of 21

MODULATION LIMITING PLOT (1000 Hz)



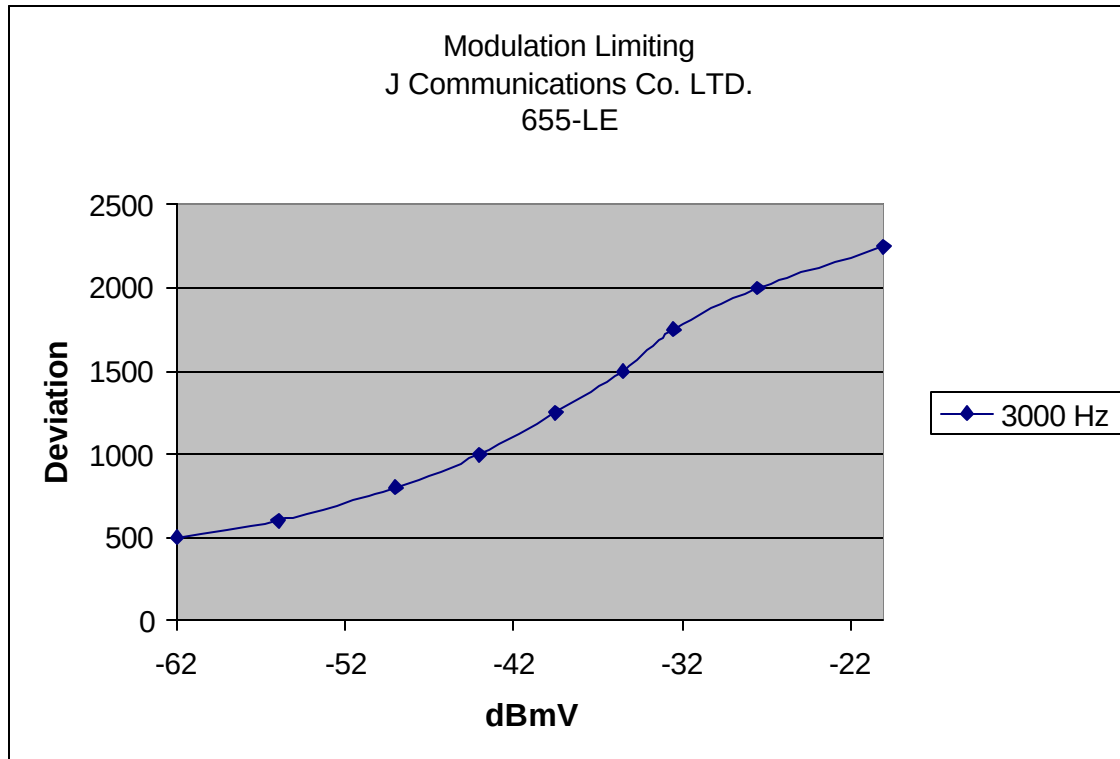
APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: J\Jcom_OAJ656KT2\656KT2TestReport.doc

Page 7 of 21

MODULATION LIMITING PLOT (3000 Hz)



APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

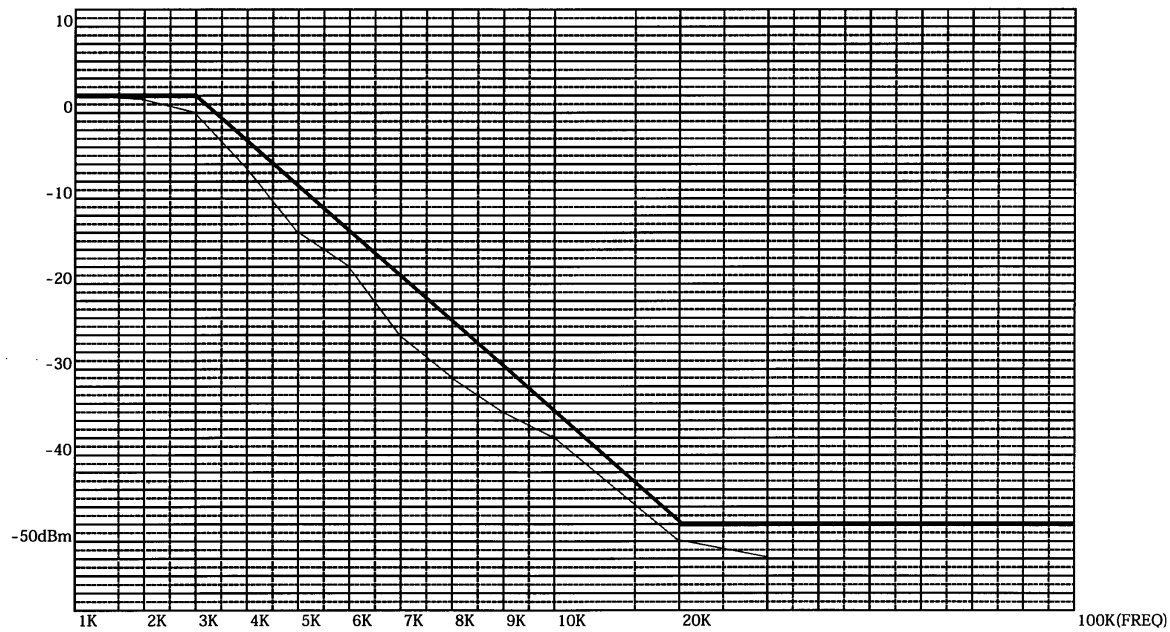
REPORT #: J\Jcom_OAJ656KT2\656KT2TestReport.doc

Page 8 of 21

AUDIO LOW PASS FILTER PLOT

AUDIO LOWPASS FILTER

MODEL : ATT-655LE
DATE : June.07.2002



APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: J\com_OAJ656KT2\656KT2TestReport.doc

Page 9 of 21

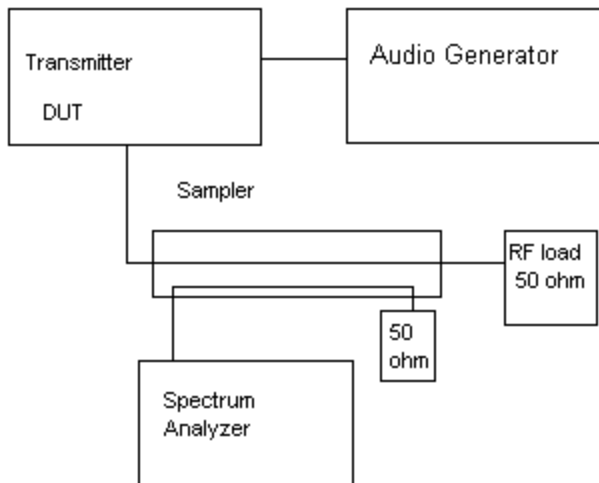
2.1049

Occupied bandwidth:

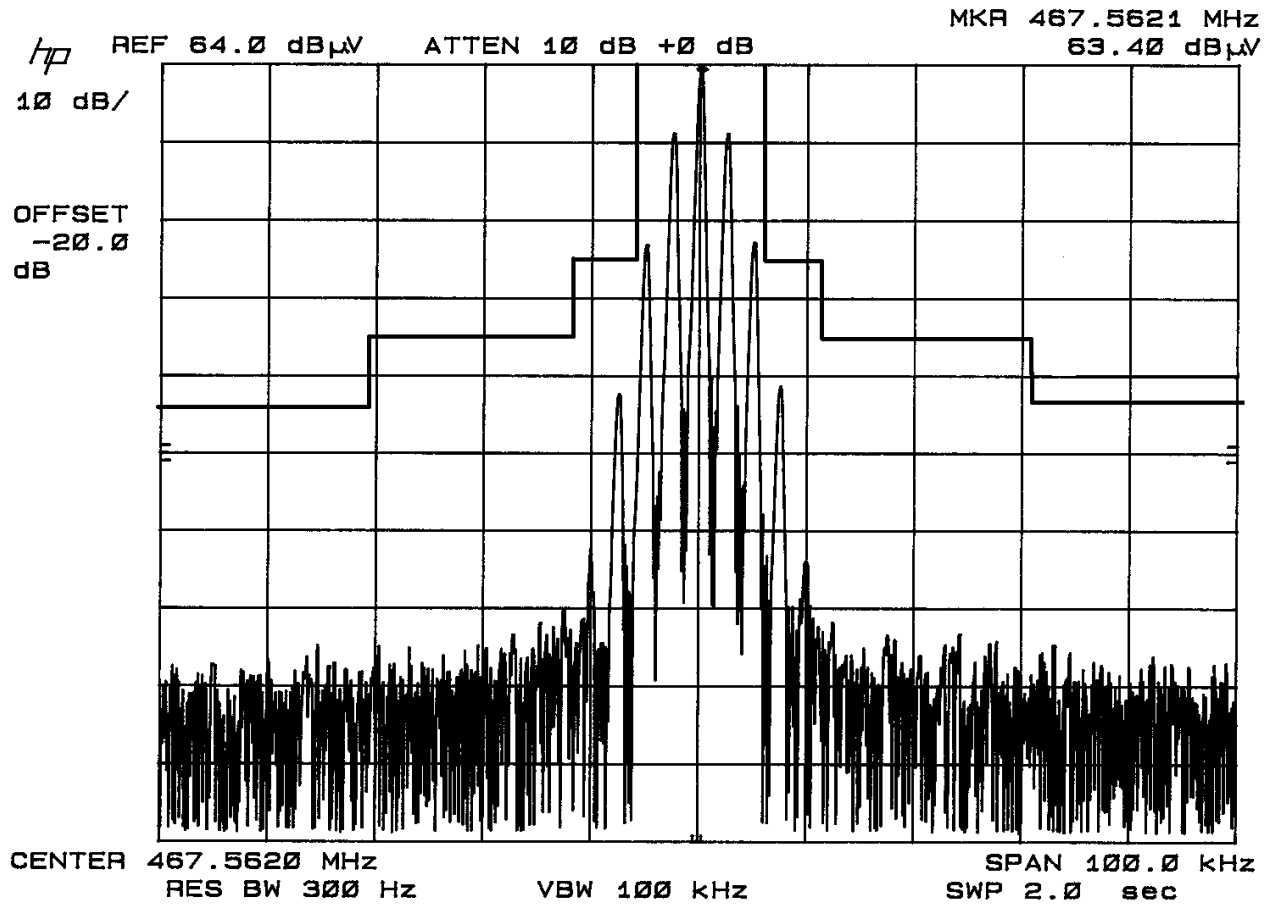
95.635(b)(1)(3)(7)

At least 25dB on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth. At least 35 dB on any frequency removed from the center of the authorized BW by more than 100% up to and including 250% of the authorized BW. At least $43 + \log_{10}(TP)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%. See plots on pages 11 and 12.

Occupied BW Test Equipment Setup



OCCUPIED BANDWIDTH PLOT



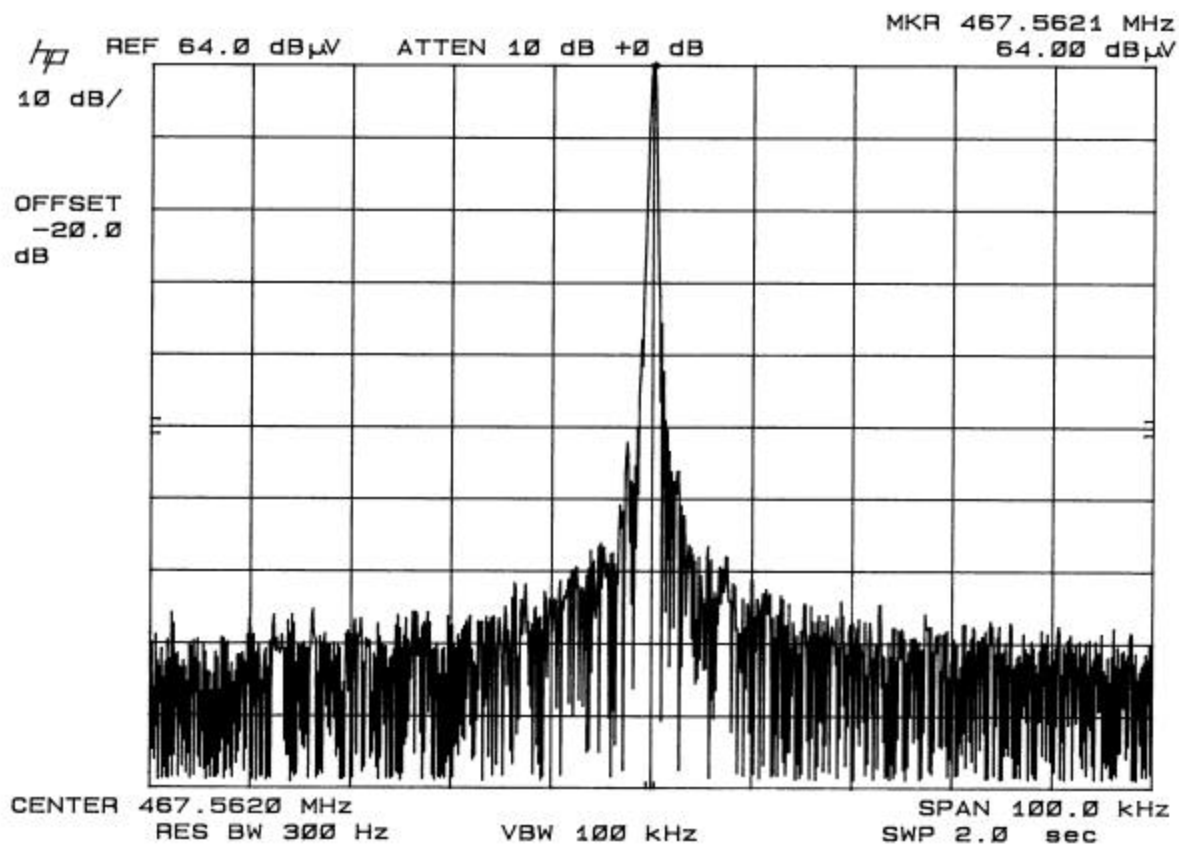
APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: J\com_OAJ656KT2\656KT2TestReport.doc

Page 11 of 21

OCCUPIED BANDWIDTH CW PLOT



APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

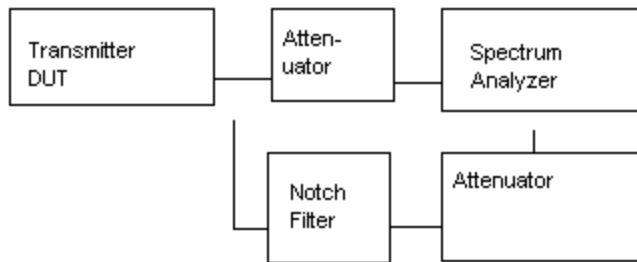
REPORT #: J\com_OAJ656KT2\656KT2TestReport.doc

Page 12 of 21

2.1051

Spurious emissions at antenna terminals(conducted):
The following data shows the level of conducted spurious responses at the antenna terminal. The test procedure used was TIA/EIA 603 S2.2.13 with the exception that the emissions were recorded in dBc. The spectrum was scanned from 0.4 to at least the 10th harmonic of the fundamental.

Spurious Emissions at
Antenna Terminals



Method of Measuring Conducted Spurious Emissions

2.1051 Spurious emissions at the Antenna Terminals

NAME OF TEST: SPURIOUS EMISSIONS AT ANTENNA TERMINALS

2.1051 Not Applicable, no antenna terminal allowed.

2.1053
95.635(b)(7)

UNWANTED RADIATION:

The tabulated Data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 to at least the 10th harmonic of the fundamental. This test was conducted per ANSI C63.4-1992.

REQUIREMENTS: GMRS: HIGH $43 + 10\log(1) = 43$ dB
LOW $43 + 10\log(.9) = 43$ dB

TEST DATA:

HIGH POWER

Emission Frequency MHz	dBc	Margin dB
462.60	0	0
925.2	62	19
1387.9	**	**
1850.5	**	**
2313.2	61	18
2775.8	**	**
3238.4	45	2
3701.1	**	**
4163.7	**	**
4626.4	**	**

LOW POWER

Emission Frequency MHz	dBc	Margin dB
462.60	0	0
925.2	**	**
1387.9	**	**
1850.5	**	**
2313.2	62	19
2775.8	**	**
3238.4	45	2
3701.1	**	**
4163.7	**	**
4626.4	**	**

** Indicates measurements below our equipment capabilities and levels were 20 dB or more below the FCC limits.**

APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: J\Jcom_OAJ656KT2\656KT2TestReport.doc

2.1053

UNWANTED RADIATION CONTINUED

95.635(b)(7)

The tabulated Data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 to at least the 10th harmonic of the fundamental. This test was conducted per ANSI C63.4-1992.

REQUIREMENTS: FRS: $43 + 10\log(.3) = 38$ dB

Emission Frequency MHz	dBc	Margin dB
467.60	0	0
935.1	**	**
1402.7	**	**
1870.2	**	**
2337.8	58	20
2805.4	**	**
3272.9	52	14
3740.5	**	**
4208.1	**	**
4675.7	**	**

**** Indicates measurements below our equipment capabilities and levels were 20 dB or more below the FCC limits.****

METHOD OF MEASUREMENT: The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA STANDARD 603 using the substitution method. Measurements were made at the open field test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

APPLICANT: J COMMUNICATIONS CO., LTD.

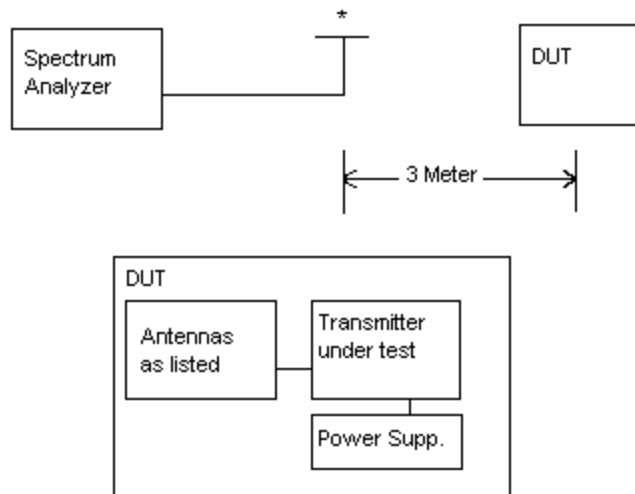
FCC ID: OAJATT655LE

REPORT #: J\com_OAJ656KT2\656KT2TestReport.doc

APPLICANT : J COMMUNICATIONS CO., LTD.

FCC ID : OAJATT655LE

Method of Measuring Radiated Spurious Emissions



Equipment placed 80 cm above ground
on a rotatable platform.

* Appropriate antenna raised from 1 to 4 M.

2.1055

Frequency stability:

95.621(b)

Temperature and voltage tests were performed to verify that the frequency remains within the 0.0025%, 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 the end point of the battery voltage of 6.0 VDC.

MEASUREMENT DATA:

Assigned Frequency (Ref. Frequency): 462.637 500

TEMPERATURE C	FREQUENCY MHZ	PPM
REFERENCE_____	462.637 500	00.00
-30C_____	462.636 320	-2.55
-20C_____	462.637 990	1.06
-10C_____	462.638 530	2.23
0C_____	462.638 650	2.49
10C_____	462.638 150	1.40
20C_____	462.637 790	0.63
30C_____	462.637 210	-0.63
40C_____	462.636 950	-1.19
50C_____	462.637 200	-0.65

BATT. %	BATT. DATA	VOLTS	BATT. PPM
-15%	462.637 310	5.1	-0.41

RESULTS OF MEASUREMENTS: The maximum frequency variation over the temperature range was -2.55 to +2.49 ppm. The maximum frequency variation with voltage was -0.41 ppm.

Note: This EUT meets the frequency stability requirement for a FRS: +/- 2.5ppm over temp range of -20 degrees C to +50 degrees C. It also meets the GMRS frequency stability requirements: +/- 5ppm over the temp range -30 degrees C to +50 degrees C.

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FCC ID: OAJATT655LE

REPORT #: J\Jcom_OAJ656KT2\656KT2TestReport.doc

Equipment List

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
X	3-Meter OATS	TEI	N/A	N/A	Listed 12/22/99	12/22/02
	3/10-Meter OATS	TEI	N/A	N/A	Listed 3/26/01	3/26/04
X	Receiver, Beige Tower Spectrum Analyzer (Tan) RF Preselector (Tan) Quasi-Peak Adapter (Tan)	HP	8566B Opt 462	3138A07786	CAL 8/31/01	8/31/02
X		HP	85685A	3144A20661	CAL 8/31/01	8/31/02
X		HP	85650A	3221A01400	CAL 8/31/01	8/31/02
X		HP	85650A	3303A01690	CAL 8/31/01	8/31/02
	Receiver, Blue Tower Spectrum Analyzer (Blue) RF Preselector (Blue) Quasi-Peak Adapter (Blue)	HP	8568B	2928A04729	CHAR 10/22/01	10/22/02
		HP	85685A	2848A18049	CHAR 10/22/01	10/22/02
		HP	85650A	2926A00983	CHAR 10/22/01	10/22/02
	Biconnical Antenna	Electro-Metrics	BIA-25	1171	2811A01279	CHAR 10/22/01
	Biconnical Antenna	Eaton	94455-1	1171	CAL 4/26/01	4/26/03
X	Biconnical Antenna	Eaton	94455-1	1096	CAL 10/1/01	10/1/02
	Biconnical Antenna	Eaton	94455-1	1057	CHAR 3/15/00	3/15/01
	BiconiLog Antenna	EMCO	3143	9409-1043		
X	Log-Periodic Antenna	Electro-Metrics	LPA-25	1122	CAL 10/2/01	10/2/02
	Log-Periodic Antenna	Electro-Metrics	EM-6950	632	CHAR 10/15/01	10/15/02
	Log-Periodic Antenna	Electro-Metrics	LPA-30	409	CHAR 10/16/01	10/16/02
	Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	152	CAL 3/21/01	3/21/02
	Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	153	CHAR 11/24/00	11/24/01

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FCC ID: OAJATT655LE

REPORT #: JJcom_OAJ656KT2\656KT2TestReport.doc

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
	Double-Ridged Horn Antenna	Electro-Metrics	RGA-180	2319	CAL 12/19/01	12/19/02
	Horn Antenna	Electro-Metrics	EM-6961	6246	CAL 3/21/01	3/21/02
	Horn Antenna	ATM	19-443-6R	None	No Cal Required	
	Passive Loop Antenna	EMC Test Systems	EMCO 6512	9706-1211	CHAR 7/10/01	7/10/02
	Line Impedance Stabilization . . .	Electro-Metrics	ANS-25/2	2604	CAL 10/9/01	10/9/02
	Line Impedance Stabilization . . .	Electro-Metrics	EM-7820	2682	CAL 3/16/01	3/16/02
	Termaline Wattmeter	Bird Electronic Corporation	611	16405	CAL 5/25/99	(5/25/00)
	Termaline Wattmeter	Bird Electronic Corporation	6104	1926	CAL 12/12/01	12/12/02
	Oscilloscope	Tektronix	2230	300572	CHAR 2/1/01	2/1/02
	Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 1/22/02	1/22/03
	AC Voltmeter	HP	400FL	2213A14499	CAL 10/9/01	10/9/02
	AC Voltmeter	HP	400FL	2213A14261	CHAR 10/15/01	10/15/02
	AC Voltmeter	HP	400FL	2213A14728	CHAR 10/15/01	10/15/02
X	Digital Multimeter	Fluke	77	35053830	CHAR 1/8/02	1/8/03
	Digital Multimeter	Fluke	77	43850817	CHAR 1/8/02	1/8/03
	Digital Multimeter	HP	E2377A	2927J05849	CHAR 1/8/02	1/8/03
	Multimeter	Fluke	FLUKE-77-3	79510405	CAL 9/26/01	9/26/02
	Peak Power Meter	HP	8900C	2131A00545	CHAR 1/26/01	1/26/02
	Digital Thermometer	Fluke	2166A	42032	CAL 1/16/02	1/16/03
	Thermometer	Traulsen	SK-128		CHAR 1/22/02	1/22/03

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FCC ID: OAJATT655LE

REPORT #: JJcom_OAJ656KT2\656KT2TestReport.doc

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
X	Temp/Humidity gauge	EXTech	44577F	E000901	CHAR 1/22/02	1/22/03
	Frequency Counter	HP	5352B	2632A00165	CAL 11/28/01	11/28/02
	Power Sensor	Agilent Technologies	84811A	2551A02705	CAL 1/26/01	1/26/02
	Injection Probe	Fischer Custom Communications	F-120-9A	270	CAL 6/1/01	6/1/02
	Service Monitor	IFR	FM/AM 500A	5182	CAL 11/22/00	11/22/01
	Comm. Serv. Monitor	IFR	FM/AM 1200S	6593	CAL 11/12/99	11/12/00
	Signal Generator	HP	8640B	2308A21464	CAL 11/15/01	11/15/02
	Modulation Analyzer	HP	8901A	3435A06868	CAL 9/5/01	9/5/02
	Power Line Coupling/ Decoupling Network	Fischer Custom Communications	FCC-801- M2-16A	01048	CAL 8/29/01	8/29/02
	Power Line Coupling/ Decoupling Network	Fischer Custom Communications	FCC-801- M3-16A	01060	CAL 8/29/01	8/29/02
	VHF/UHF Current Probe	Fischer Custom Communications	F-52	130	CAL 8/30/01	8/30/02
	Passive Impedance Adapter	Fischer Custom Communications	FCC-801- 150-50-CDN	01117 & 01118	CAL 8/29/01	8/29/02
	Radiating Field Coil	Fischer Custom Communications	F-1000-4- 8/9/10-L-1M	9859	CAL 10/15/98	10/15/99
	Near Field Probe	HP	HP11940A	2650A02748	CHAR 2/1/01	2/1/02
	BandReject Filter	Lorch Microwave	5BR4-2400/ 60-N	Z1	CHAR 3/2/01	3/2/02
	BandReject Filter	Lorch Microwave	6BR6-2442/ 300-N	Z1	CHAR 3/2/01	3/2/02
	BandReject Filter	Lorch Microwave	5BR4-10525/ 900-S	Z1	CHAR 3/2/01	3/2/02
	High Pas Filter	Microlab	HA-10N		CHAR 10/4/01	10/4/02
	Audio Oscillator	HP	653A	832-00260	CHAR 3/1/01	3/1/02

APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

REPORT #: JJcom_OAJ656KT2\656KT2TestReport.doc

Page 20 of 21

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
	Frequency Counter	HP	5382A	1620A03535	CHAR 3/2/01	3/2/02
	Frequency Counter	HP	5385A	3242A07460	CHAR 12/11/01	12/11/02
	Preamplifier	HP	8449B-H02	3008A00372	CHAR 3/4/01	3/4/02
	Amplifier	HP	11975A	2738A01969	CHAR 3/1/01	3/1/02
	Egg Timer	Unk			CHAR 2/28/01	2/28/02
	Measuring Tape, 20M	Kraftixx	0631-20		CHAR 2/28/01	2/28/02
	Measuring Tape, 7.5M	Kraftixx	7.5M PROFI		CHAR 2/28/01	2/28/02
	EMC Immunity Test System	Keytek	CEMASTER	9810210		
	AC Power Source	California Instruments	1251RP	L05865		
	AC Power Source	California Instruments	PACS-1	X71484		
	Isotropic Field Probe	Amplifier Research	FP5000	22839		
	Isotropic Field Probe	Amplifier Research	FP5000	300103		
	Capacitor Clamp	Keytek	CM-CCL	9811359	No Cal Required	
	Amplifier	Amplifier Research	10W1000B	23117	No Cal Required	
	Field Monitor	Amplifier Research	FM5004	22288	No Cal Required	
	ELF Meter	F. W. Bell	4060	Not serialized		
	Coaxial Cable #51	Insulated Wire Inc.	NPS 2251- 2880	Timco #51	CHAR 1/23/02	1/23/03
	Coaxial Cable #64	Semflex Inc.	60637	Timco #64	CHAR 1/24/02	1/24/03
	Coaxial Cable #65	General Cable Co.	E9917 RG233/U	Timco #65	CHAR 1/23/02	1/23/03
	Coaxial Cable #106	Unknown	Unknown	Timco #106	CHAR 1/23/02	1/23/03

APPLICANT: J COMMUNICATIONS CO., LTD.

FCC ID: OAJATT655LE

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