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APPLICANT: BACKMI CORPORATION

FCC ID: RNDDA579H

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TEST EQUIPMENT LIST

DEVICE	MODEL	MFGR	SERNO	DUE.CAL
EMI Test Receiver	ESVS 10	Rohde & Schwarz	830489/001	2004.04.25.
Spectrum Analyzer	8566B	Hewlett Packard	2311A02394	2004.03.17
Spectrum Display	85662A	Hewlett Packard	2542A12429	2004.03.17
Quasi-Peak Adapter	85650A	Hewlett Packard	2521A00887	2004.03.17
RF Preselector	85685A	Hewlett Packard	2648A00504	2004.03.17
Pre-Amplifier	8449B	Hewlett Packard	3008A00375	2004.03.17
Pre-Amplifier	8447F	Hewlett Packard	3113A05367	2004.03.17
Spectrum Monitor	EZM	Rohde & Schwarz	862304/007	2004.03.17
Dipo-Antenna	94455-1	Eaton	977	2004.03.17
Log-Periodic Antenna	3146	EMCO	2051	2004.03.17
Dipole Antenna	TDA25/1/2	Electro Metrics	176/200/200	2004.03.17
Horn Antenna	SAS-571	A.H Systems	414	2004.03.17
Spectrum Analyzer	R3261C	Advantest	71720189	2004.04.26
LISN	KNW-242	Kyoritsu	8-923-2	2004.07.12
LISN	8012-50-K-24	Solar	8379121	2004.07.12

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APPLICANT: BACKMI CORPORATION

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THIS DEVICE COMPLIES WITH THE SECURITY CODE REQUIREMENTS

15.214(d)

OF 15.214(d) (1) (2) AND (3) BY MEANS OF THE FOLLOWING:

THIS DEVICE HAS 24 MILLION POSSIBLE SECURITY CODES. ONE SECURITY CODE OUT OF 24 MILLION IS PRE-PROGRAMMED WHEN MANUFACTURED AT THE FACTORY.

THE CPU CONTROLS THE RF FREQUENCY CHANNEL. AND THE ASIC CONTROLS ADPCM CODEC AND AUDIO SIGNAL SWITCHING ALSO SET UP THE SPREADING CODE. BEFORE THE COMMUNICATION LINK IS ESTABLISHED, THE DEVICE SEARCHES FOR A VACANT RF CHANNEL AND THEN TRANSMITS RF SIGNAL ON THE VACANT CHANNEL.

PRODUCT DESCRIPTION :

This device is a 2.4GHz DSSS wireless system that can be used by the Police Department to record dialog between the police and a suspect. When a policeman arrests a suspect, he must read the Miranda Rights to suspect. At the scene, a receiver which will be connected to the camcorder. Therefore, both the scene and sound can be recorded for further use.



TEST PROCEDURE

Applicant:BACKMI CORPORATION

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GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. Shielded interface cables were used in all cases except for cables connecting to the telephone line and the power cords. A test program was run which simulated a normal data transmission on a network.

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-1992 using a 50uH LISN. Both lines were observed. The bandwitch of the spectrum analyzer was 10kHz with an appropriate sweep speed. The ambient temperature of the UUT was 74°F with a humidity of 44%.

BANDWIDTH 6.0dB : The measurement were made with the spectrum analyzer's resolution bandwidth(RBW) = 100kHz and the video bandwidth(VBW) = 300 kHz and the span set as shown on plot.

POWER OUTPUT : The RF power output was measured at the antenna feed point by removing the permanent antenna and connecting the UUT to a peak power meter, HP Model No. 8566B.

ANTENNA CONDUCTED EMISSIONS : The RBW = 100 kHz, VBW > or = RBW and the spectrum was scanned from 30 MHz to the 10th Harmonic of the fundamental.

RADIATION INTERFERENCE : The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a pre-selector. The bandwidth(RBW) of the spectrum analyzer was 100kHz up to 1GHz and 1.0MHz above 1 GHz with an appropriate sweep speed. The VBW above 1.0GHz was = 1.0 MHz. The analyzer was calibrated in dB above a microvolt at the ourput of the antenna. The ambient temperature of the UUT was 74°F with a humidity of 55%.

15,247 (d) POWER SPECTRAL DENSITY. The peak within the pass band was located with a RBW set to 30 kHz and span of 5MHz, slightly greater than the 6dB bandwidth, then the emission was centered on the display and the span and RBW reduced. A 1.5 MHz span, 3 kHz RBW, and a sweep time to sweep time set to 500 seconds. Since spectral line spacing could not be resolved, the noise power measured using the noise power density and adding the correction of 35dB and any attenuation used was added.

2.1033 (b) (4)

ANTENNA AND GROUND SYSTEM :

This unit uses a short, inductively loaded, antenna element for the base unit and the handset. The antenna is permanently attached to the unit and no provision is made for connection to an exteranl antenna.

No ground connection is provided. The only ground in use is the ground plane on the printed circuit board.

HEADSET

Applicant:BACKMI CORPORATION

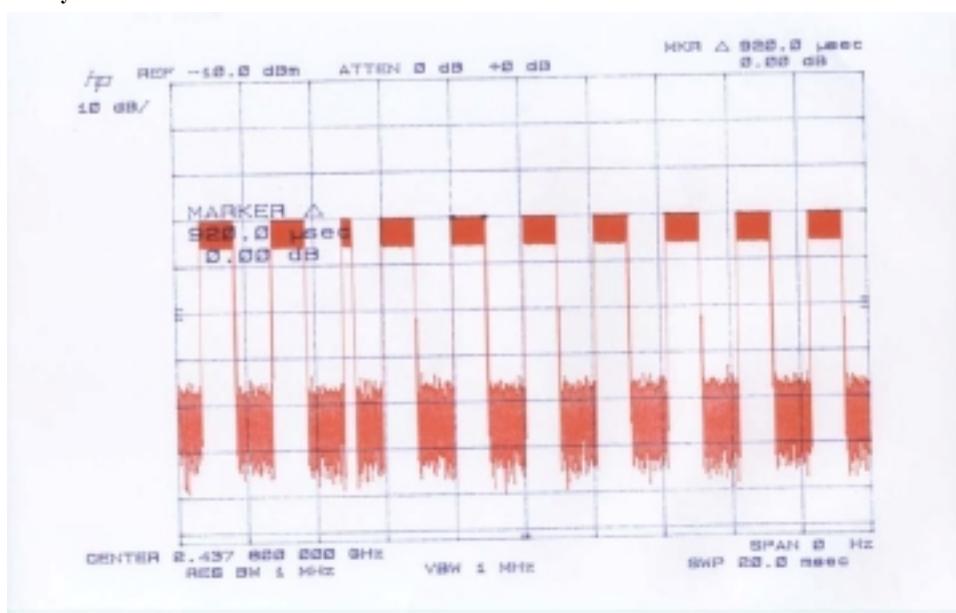
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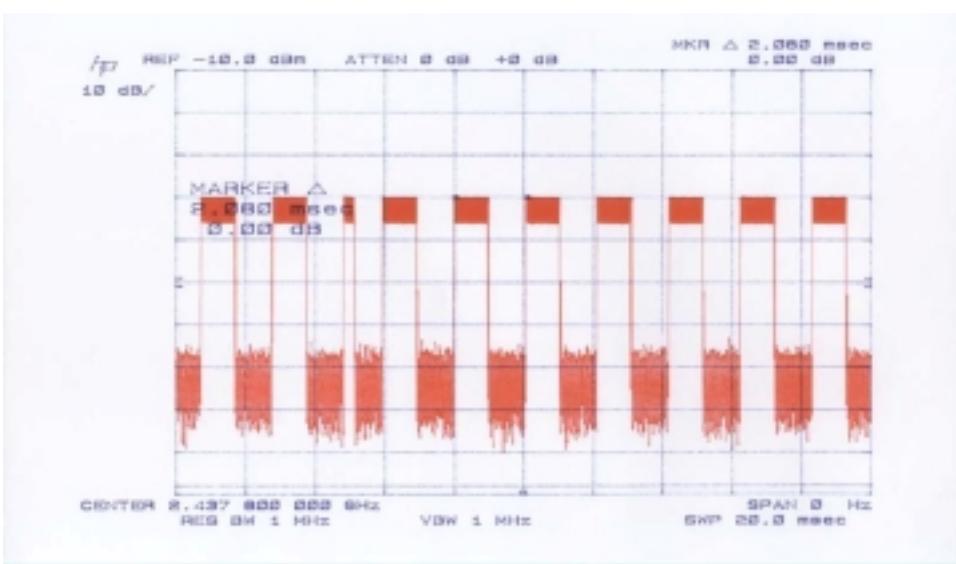
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Duty cycle under normal operation

T-Duty



T-Cycle



$$\text{* Duty factor} = 20\log \left(\frac{\text{Twidth}}{\text{Tperiod}} \right) = 20\log \left(920 \times 10^{-6} / 2.02 \times 10^{-3} \right) = -6.83$$

APPLICANT:

BACKMI CORPORATION

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FCC ID: **RNDDA579H**

NAME OF TEST: **OCCUPIED BANDWIDTH (Conducted)**

RULES PART NUMBER: **15.247**

15.247(a) (2)

6dB bandwidth shall be at least 500kHz. As shown in the accompanying plots. The bandwidth was measured at three places in the band and the narrowest is reported below.

Headset 6 dB Bandwidth =1.631 MHz

Channal	MHz
1CH	1.686
20CH	1.671
40CH	1.631

Applicant:BACKMI CORPORATION

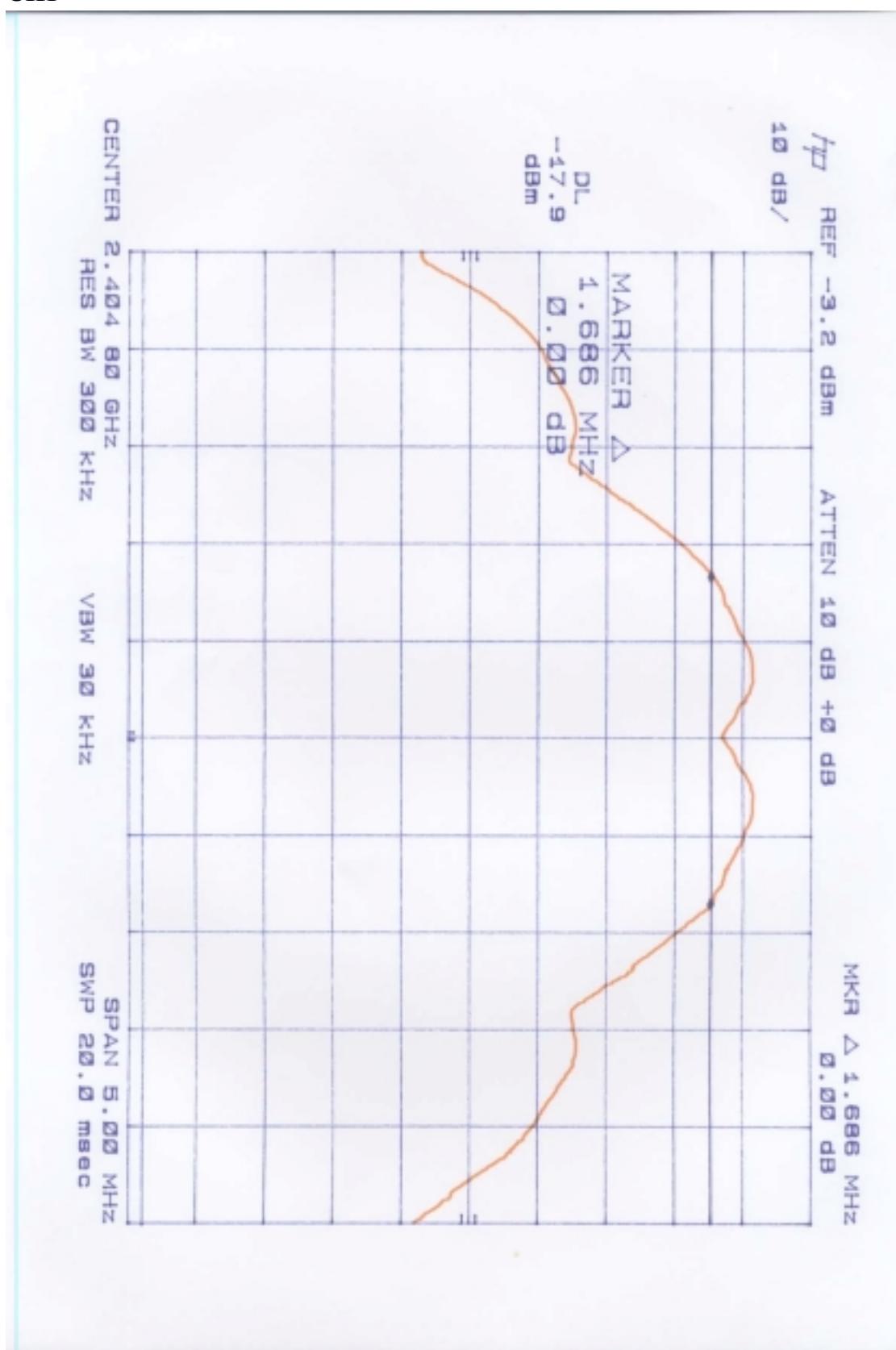
FCCID:RNDDA579H

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HEADSET
CH1

OCCUPIED BANDWIDTH

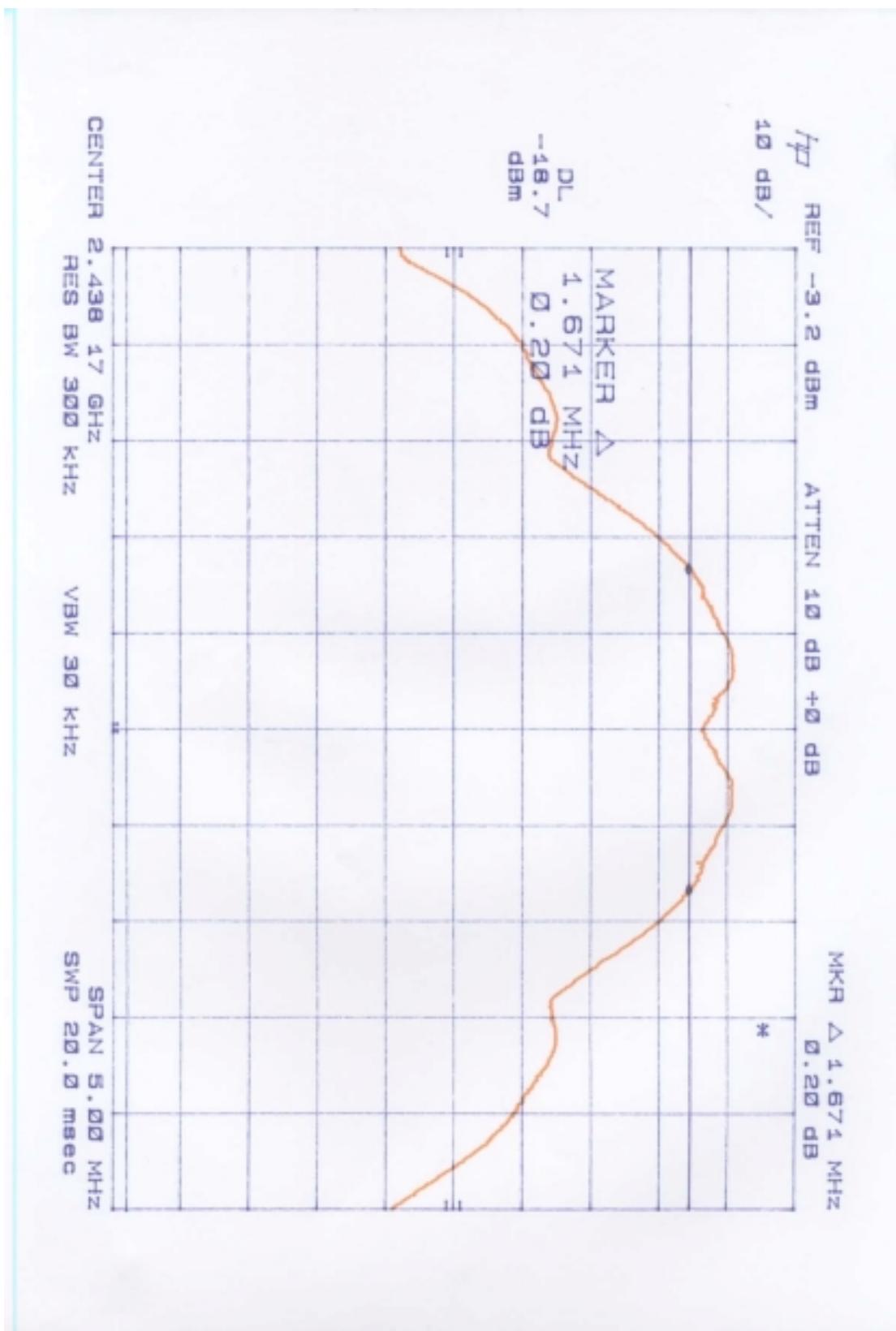


Applicant: BACKMI CORPORATION

FCCID:RNDDA579H

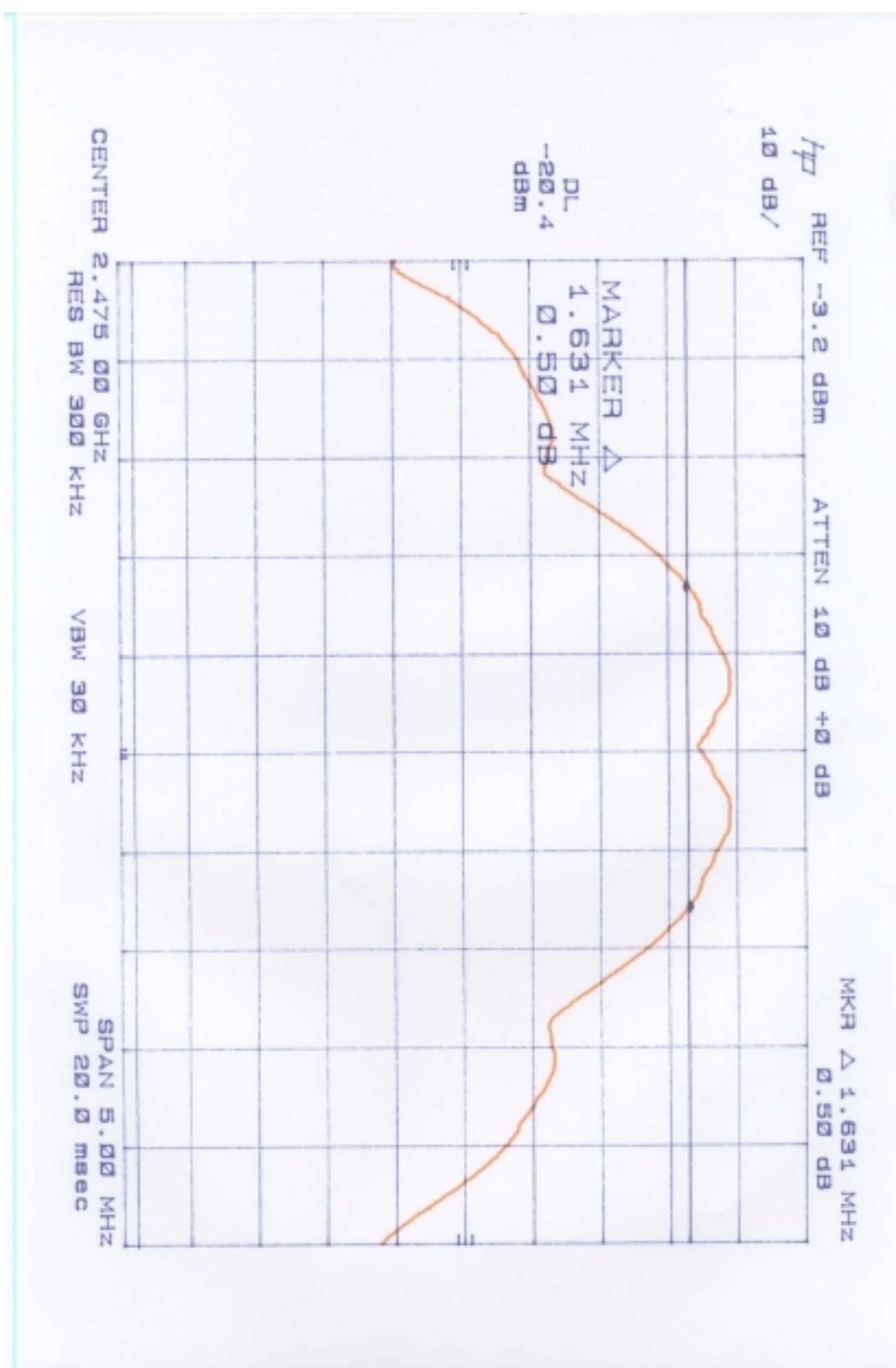
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CH40

OCCUPIED BANDWIDTH



Applicant: BACKMI CORPORATION

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APPLICANT: BACKMI CORPORATION
FCC ID: RNDDA579B
NAME OF TEST: PEAK POWER OUTPUT (Conducted)
RULES PART NUMBER: 15.247 (B)

The maximum peak output power shall not exceed 1 watt (30dBm)

If directional transmitting antennas with a gain of more than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Both the base and headset have a maximum power output of less than +30 dBm. Power was measured by disconnecting the antennas and measuring across a 50ohm load as recommended by the manufacturer using a HP spectrum Analyzer model 8566B. The antennas are non directional and do not exceed 6 dBi gain. The power output was measured at three places .

Headset	CHANNEL	dBm	mW	LIMIT
	1 CH	-4.30	0.371	2400-2483.5MHz
	20CH	-5.10	0.309	1.0 WATT
	40CH	-8.30	0.147	or +30dBm

HARMONICS

1CH	dBm	20CH	dBm	40CH	dBm
4.8096	-64.1	4.8780	-65.4	4.9500	-65.3
7.2144	-62.5	7.3170	-63.1	7.4250	63.9
9.6192	-64.6	9.7560	-64.7	9.9000	64.5
12.0240	-63.9	12.1950	-63.6	12.3750	64.5
14.4288	-60.7	14.6340	-61.0	14.8500	60.0

APPLICANT: BACKMI CORPORATION

FCC ID: RNDDA579B

NAME OF TEST: RADIATED SUPURIOUS EMISSIONS

RULES PART NUMBER: 15.247 (C)

REQUIREMENTS: Emissions that fall in the restricted bands (15.205). These emissions must be less than or equal to 500 μ V/m (54 dB_{uV}/m). Spurious not in a restricted band must be 20 dBc.

DATA NEXT PAGES

SAMPLE CALCULATION: $FSdBuV/m = MR \text{ (dBuV)} + ACFdB + C.F.$

METHOD OF MEASURMENT: The procedure used was ANSI STANDARD C63.4 1991. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was scanned from 30 MHz to 10 GHz using a Hewlett Packard Model 8566B Spectrum Analyzer, Hewlett Packard Model 85685A Preselector, Hewlett Packard Model 85650A Quasi-Peak Adaptor, and an appropriate antenna. Low loss coax was used above 1 GHz. Measurements were made at Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL.

TEST RESULTS : The unit DOES meet the FCC requirements.

PERFORMED BY :

Applicant:BACKMI CORPORATION

FCCID:RNDDA579H

Report:THRU-112103

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(DATA OF SUPURIOUS EMISSIONS(30MHz to 1000MHz)

APPLICANT: BACKMI CORPORATION. **FCC ID:** RNDDA579H
RULES PART NUMBER: 15.209 **Mode:** Transmitting (ch1:2.4048)
Model: DA579 Wireless Headset

QP DETECT

No	Frequency (MHz)	Result (dBuv)	Polar	Ant Height	Antenna Factor	Cable Loss	Limit value (dBuv)	Reading (dBuv)	Margin (dBuv)
1	49.36	34.2	H	4.0	11.0	1.5	40.0	21.7	-5.8
2	96.05	37.0	V	2.0	10.9	2.4	43.0	23.7	-6.0
3	106.85	36.0	H	3.1	11.1	2.5	43.0	22.4	-7.0
4	122.64	36.9	H	2.5	11.3	2.8	43.0	22.8	-6.1
5	130.65	38.7	H	3.2	12.8	2.9	43.0	23.0	-4.3
6	138.72	38.0	H	2.8	14.8	2.9	43.0	20.3	-5.0
7	141.45	33.6	H	2.6	15.3	3.0	43.0	15.3	-9.4
8	154.60	36.3	V	2.1	16.9	3.1	43.0	16.2	-6.7
9	157.20	38.5	H	3.0	17.0	3.2	43.0	18.3	-4.5
10	177.64	38.0	H	3.1	15.0	3.4	43.0	19.6	-5.0
11	189.54	39.0	V	1.5	13.6	3.5	43.0	21.9	-4.0
12	234.61	37.8	H	2.5	11.1	4.0	46.0	22.7	-8.2
13	245.27	34.4	V	1.2	11.6	4.1	46.0	18.7	-11.6
14	306.42	33.7	V	1.6	15.9	4.7	46.0	13.1	-12.3
15	423.84	31.8	H	2.4	15.8	5.8	46.0	10.2	-14.2
16	537.26	33.2	V	1.7	17.9	6.9	46.0	8.4	-12.8
17	576.28	35.2	V	1.3	18.5	7.3	46.0	9.4	-10.8
18	880.07	41.7	H	2.3	23.6	9.8	46.0	8.2	-4.3

METHOD OF MEASUR The procedure used was ANSI STANDARD C63.4

1991. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported.

The spectrum was scanned from 30 MHz to 1000MHz using a Hewlett Packard Model 8566B Spectrum Analyzer, Hewlett Packard Model 85685A Preselector, Hewlett Packard Model 85650A Quasi-Peak Adaptor, and an appropriate antenna. Low loss coax was used above 1 GHz. Measurements were made at Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL.

TEST RESULTS : The unit DOES meet the FCC requirements.

(DATA OF SUPURIOUS EMISSIONS(30MHz to 1000MHz)

APPLICANT: BACKMI CORPORATION.
 RULES PART NUMBER 15.209
 REQUIREMENT:

FCC ID: RNDDA579H
 Mode: Transmitting (ch20:2.4390)
 Model: DA579 Wireless Headset

QP DETECT

No	Frequency (MHz)	Result (dBuv)	Polar	Ant Height	Antenna Factor	Cable Loss	Limit value (dB)	Reading (dBuv)	Margin (dBuv)
1	76.35	28.7	H	3.6	7.1	2.1	40.0	23.7	-11.3
2	86.48	38.2	H	3.0	9.6	2.3	40.0	26.3	-1.8
3	124.79	36.3	V	2.0	11.7	2.8	43.0	21.8	-6.7
4	134.43	37.6	H	3.3	13.7	2.9	43.0	21.0	-5.4
5	153.63	37.4	H	3.7	16.9	3.1	43.0	17.4	-5.6
6	184.03	31.0	V	1.8	14.2	3.5	43.0	13.4	-12.0
7	202.97	25.1	H	2.9	10.8	3.7	43.0	10.6	-17.9
8	370.64	30.5	V	1.5	15.0	5.3	46.0	10.2	-15.5
9	400.95	39.5	H	3.5	15.5	5.6	46.0	18.4	-6.5
10	420.95	34.9	V	1.9	15.7	5.8	46.0	13.4	-11.1
11	441.30	37.1	H	2.8	16.2	6.0	46.0	14.9	-8.9
12	460.97	34.3	H	3.0	18.3	6.2	46.0	9.8	-11.7
13	661.45	33.1	H	3.1	20.6	8.0	46.0	4.5	-12.9
14	701.16	36.9	V	1.8	21.4	8.4	46.0	7.1	-9.1
15	783.16	35.1	H	2.8	21.1	9.1	46.0	4.9	-10.9
16	882.26	38.3	V	2.7	23.6	9.9	46.0	4.8	-7.7

METHOD OF MEASUR The procedure used was ANSI STANDARD C63.4

1991. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported.

The spectrum was scanned from 30 MHz to 1000MHz using a Hewlett Packard

Model 8566B Spectrum Analyzer, Hewlett Packard Model 85685A

Preselector, Hewlett Packard Model 85650A Quasi-Peak Adaptor,

and an appropriate antenna. Low loss coax was used above 1 GHz.

Measurements were made at Timco Engineering, Inc. 849 NW State Road 45

Newberry, F1.

TEST RESULTS : The unit DOES meet the FCC requirements.

(DATA OF SUPURIOUS EMISSIONS(30MHz to 1000MHz)

APPLICANT:

FCC ID: RNDDA579B

RULES PART NUMBER :

Mode: Transmitting (ch40:2.4750)

REQUIREMENT:

Model: DA579 Wireless Headset

No	Frequency (MHz)	Result (dBuv)	Polar	Ant Height	Antenna Factor	Cable Loss	Limit value (dB)	Reading (dBuv)	Margin (dBuv)
1	76.94	28.7	H	3.9	7.3	2.1	40.0	12.9	-11.3
2	80.02	27.4	V	1.5	8.1	2.1	40.0	17.2	-12.6
3	86.20	38.1	H	3.2	9.5	2.3	43.0	26.3	-4.9
4	96.15	41.9	H	2.6	10.9	2.4	43.0	28.6	-1.1
5	124.80	39.1	V	1.7	11.7	2.8	43.0	24.6	-3.9
6	153.55	36.6	H	3.0	16.9	3.1	43.0	16.6	-6.4
7	163.15	34.8	V	1.9	16.8	3.2	43.0	14.7	-8.2
8	182.45	34.2	V	1.8	14.4	3.4	43.0	16.4	-8.8
9	234.85	36.1	V	2.0	11.1	4.0	46.0	21.0	-9.9
10	240.76	36.8	H	3.1	11.4	4.0	46.0	21.4	-9.2
11	277.36	38.6	H	2.8	16.5	4.4	46.0	17.7	-7.4
12	370.63	30.6	H	2.9	15.0	5.3	46.0	10.3	-15.4
13	371.84	31.9	V	1.9	15.0	5.3	46.0	11.6	-14.1
14	400.87	40.7	H	2.0	15.5	5.6	46.0	19.6	-5.3
15	420.95	35.2	V	1.8	15.7	5.8	46.0	13.7	-10.8
16	632.20	37.4	H	2.0	20.6	7.8	46.0	9.0	-8.6
17	749.19	37.3	H	2.4	21.0	8.8	46.0	7.6	-8.7
18	882.24	37.5	H	2.0	23.6	9.9	46.0	4.0	-8.5

METHOD OF MEASUR The procedure used was ANSI STANDARD C63.4

1991. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported.

The spectrum was scanned from 30 MHz to 1000MHz using a Hewlett Packard

Model 8566B Spectrum Analyzer, Hewlett Packard Model 85685A

Preselector, Hewlett Packard Model 85650A Quasi-Peak Adaptor, and an appropriate antenna. Low loss coax was used above 1 GHz.

Measurements were made at Timco Engineering, Inc. 849 NW State Road 45 Newberry, F1.

TEST RESULTS : The unit DOES meet the FCC requirements.

DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

APPLICANT BACKMI CORPORATION
 RULES PART NUMBER 15.247(C)
 REQUIREMENT Emission that fall in the restricted bands (15.205). These emissions must be less than or equal to 500uV/m(54dBuV/m). Spurious not in a restricted band must be 20 dBc

FCC ID RNDDA579H
 Mode: Transmitting (ch1:2.4048)
 Model: DA579 Wireless Headset-Headset

AV DATECT(S/A:RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor	AMP GAIN [dB]	CABLE LOSS [dB]	ATTN [dB]	Duty [dB]	D-fac [dB]	RESULE		Limit AV dBuV/m	MARGIN	
		HOR	VER							HOR	VER		HOR	VER
		[dBuV]	[dB]							[dBuV]	[dB]		[dB]	[dB]
Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor														
1	2.4048	41.4	47.0	27.60		3.25	0.00	-6.60		65.65	71.25	127.00	61.35	55.75
2	4.8096	38.5	45.0	33.10	35.60	4.42	0.00	-6.60		33.82	40.32	54.00	20.18	13.68
Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor-D-Fac														
3	7.2144	38.4	38.6	36.10	38.10	5.53	0.00	-6.60	9.40	25.93	26.13	54.00	28.07	27.87
4	9.6192	37.9	38.4	38.30	38.50	6.48	0.00	-6.60	9.40	28.18	28.68	54.00	25.82	25.32
5	12.0240	38.1	38.1	40.50	38.50	7.50	0.00	-6.60	9.40	31.60	31.60	54.00	22.40	22.40
6	14.4288	41.0	40.9	41.20	38.50	8.30		-6.60	9.40	36.00	35.90	54.00	18.00	18.10

PK DATECT(S/A:RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor	AMP GAIN [dB]	CABLE LOSS [dB]	ATTN [dB]	Duty [dB]	D-fac [dB]	RESULE		Limit AV dBuV/m	MARGIN	
		HOR	VER							HOR	VER		HOR	VER
		[dBuV]	[dB]							[dBuV]	[dB]		[dB]	[dB]
Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor														
1	2.4048	47.4	52.6	27.60		3.25	0.00	-6.60		71.65	76.85	127.00	55.35	50.15
2	4.8096	46.2	48.7	33.10	35.60	4.42	0.00	-6.60		41.52	44.02	74.00	32.48	29.98
Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor-D-Fac														
3	7.2144	50.2	49.6	36.10	38.10	5.53	0.00	-6.60	9.40	37.73	37.13	74.00	36.27	36.87
4	9.6192	48.7	48.6	38.30	38.50	6.48	0.00	-6.60	9.40	38.98	38.88	74.00	35.02	35.12
5	12.0240	49.0	49.2	40.50	38.50	7.50	0.00	-6.60	9.40	42.50	42.70	74.00	31.50	31.30
6	14.4288	53.2	51.0	41.20	38.50	8.30	0.00	-6.60	9.40	48.20	46.00	74.00	25.80	28.00

REMARKS

- * Test Distance 0.5m : Distance Factor (D-fac)= $20\log(3/1) = 9.45\text{dB}$
- * Duty factor = $20\log(\text{Twidh}/\text{Tperiod}) = 20\log(960*10^{-6} / 2.06 * 10^{-3}) = -6.632$
- * Except for the above table : All other spurious emissions were less than 20dB for the limit.

Applicant:BACKMI CORPORATION

FCCID:RNDDA579H

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DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

APPPLICANT	BACKMI CORPORATION	FCC ID RNDNA579H
RULES PART NUMBER	15.247(C)	Mode: Transmitting (ch40:2.4750)
REQUIREMENT	Emission that fall in the restricted bands (15.205). These emissions must be less than or equal to 500uV/m(54dBuV/m). Spurious not in a restricted band must be 20 dBc	Model: DA579 Wireless Headset-Headset

AV DATECT(S/A:RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor	AMP GAIN [dB]	CABLE LOSS [dB]	ATTN [dB]	Duty	D-fac [dB]	RESULE		Limit AV dBuV/m	MARGIN	
		HOR	VER							HOR	VER		HOR	VER
		[dBuV]	[dB]							[dBuV]	[dB]		[dB]	[dB]
Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor														
1	2.4750	40.5	46.6	27.70		3.34	0.00	-6.60		64.94	71.04	127.00	62.06	55.96
2	4.9500	39.0	44.1	34.00	35.60	4.63	0.00	-6.60		35.43	40.53	54.00	18.57	13.47
Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor-D-Fac														
3	7.4250	37.6	37.6	36.80	38.10	5.44	0.00	-6.60	9.40	25.74	25.74	54.00	28.26	28.26
4	9.9000	38.1	38.4	38.40	38.50	6.90	0.00	-6.60	9.40	28.90	29.20	54.00	25.10	24.80
5	12.3750	38.2	38.0	40.50	38.50	7.52	0.00	-6.60	9.40	31.72	31.52	54.00	22.28	22.48
6	14.8500	40.9	40.9	41.00	38.50	8.33	0.00	-6.60	9.40	35.73	35.73	54.00	18.27	18.27

PK DATECT(S/A:RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor	AMP GAIN [dB]	CABLE LOSS [dB]	ATTN [dB]	Duty	D-fac [dB]	RESULE		Limit AV dBuV/m	MARGIN	
		HOR	VER							HOR	VER		HOR	VER
		[dBuV]	[dB]							[dBuV]	[dB]		[dB]	[dB]
Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor														
1	2.4750	45.3	51.5	27.70		3.34	0.00	-6.60		69.74	75.94	127.00	57.26	51.06
2	4.9500	47.6	49.4	34.00	35.60	4.63	0.00	-6.60		44.03	45.83	74.00	29.97	28.17
Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor-D-Fac														
3	7.4250	48.7	48.5	36.80	38.10	5.44	0.00	-6.60	9.40	36.84	36.64	74.00	37.16	37.36
4	9.9000	49.7	48.5	38.40	38.50	6.90	0.00	-6.60	9.40	40.50	39.30	74.00	33.50	34.70
5	12.3750	48.9	48.7	40.50	38.50	7.52	0.00	-6.60	9.40	42.42	42.22	74.00	31.58	31.78
6	14.8500	52.3	52.3	41.00	38.50	8.33	0.00	-6.60	9.40	47.13	47.13	74.00	26.87	26.87

REMARKS

* Test Distance 0.5m : Distance Factor (D-fac)= $20\log(3/1) = 9.45\text{dB}$

* Duty factor = $20\log(T\text{width}/T\text{period}) = 20\log(960*10^{-6} / 2.06 * 10^{-3}) = -6.632$

* Except for the above table : All other spurious emissions were less than 20dB for the limit.

Applicant:BACKMI CORPORATION

FCCID:RNDDA579H

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DATA OF SUPURIOUS EMISSIONS(1GHz to 26GHz)

APPPLICANT BACKMI CORPORATION
 RULES PART NUMBER 15.247(C)
 REQUIREMENT Emission that fall in the restricted bands (15.205). These emissions must be less than or equal to 500uV/m(54dBuV/m). Spurious not in a restricted band must be 20 dBc

FCC ID RNDDA579H
 Mode: Transmitting (ch20:2.4390)
 Model: DA579 Wireless Headset-Headset

AV DATECT(S/A:RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTN [dB]	Duty [dB]	D-fac [dB]	RESULE		Limit AV dBuV/m	MARGIN	
		HOR	VER							HOR	VER		HOR	VER
		[dBuV]	[dB]							[dBuV]	[dB]		[dB]	[dB]

Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor

1	2.4390	40.8	46.4	27.60		3.25		-6.80		64.85	70.45	127.00	62.15	56.55
2	2.8780	36.9	44.7	33.10	35.60	4.48		-6.80		32.08	39.88	54.00	21.92	14.12

Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor-D-Fac

3	7.3170	38.3	38.2	36.10	38.10	5.62		-6.80	9.40	25.72	25.62	54.00	28.28	28.38
4	9.7560	37.7	37.8	38.30	38.50	6.51		-6.80	9.40	27.81	27.91	54.00	26.19	26.09
5	12.1950	38.5	38.3	40.50	38.50	7.50		-6.80	9.40	31.80	31.60	54.00	22.20	22.40
6	14.6340	41.3	41.3	41.20	38.50	8.33		-6.80	9.40	36.13	36.13	54.00	17.87	17.87

PK DATECT(S/A:RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTN [dB]	Duty [dB]	D-fac [dB]	RESULE		Limit AV dBuV/m	MARGIN	
		HOR	VER							HOR	VER		HOR	VER
		[dBuV]	[dB]							[dBuV]	[dB]		[dB]	[dB]

Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor

1	2.4390	47.3	51.8	27.60		3.25		-6.80		71.35	75.85	127.00	55.65	51.15
2	2.8780	46.3	48.0	33.10	35.60	4.48		-6.80		41.48	43.18	74.00	32.52	30.82

Test distance 3meter Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor-D-Fac

3	7.3170	49.0	49.3	36.10	38.10	5.62		-6.80	9.40	36.42	36.72	74.00	37.58	37.28
4	9.7560	48.2	48.6	38.30	38.50	6.51		-6.80	9.40	38.31	38.71	74.00	35.69	35.29
5	12.1950	49.5	49.2	40.50	38.50	7.50		-6.80	9.40	42.80	42.50	74.00	31.20	31.50
6	14.6340	52.9	52.4	41.20	38.50	8.33		-6.80	9.40	47.73	47.23	74.00	26.27	26.77

REMARKS

* Test Distance 0.5m : Distance Factor (D-fac)=20log(3/1) = 9.45dB

* Duty factor = 20log (Twidt/Tperiod) = 20log (960*10^-6 / 2.06 * 10^-3) = -6.632

* Except for the above table : All other spurious emissions were less than 20dB for the limit.

Applicant:BACKMI CORPORATION

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APPLICANT: **BACKMI CORPORATION**

FCC ID: **RNDDA579B**

**NAME OF TEST: RADIATED SPURIOUS EMISIION INTO ADJACENT
RESTRICTED BAND**

REQUIREMENTS: **Emissions that fall in the restricted bands
(15.205). These emissions must be less than
or equal to 500uV/m (54 dBuV/m).**

TEST PROCEDURE **An in band field strength measurement of the fundamental
emission using the RBW and detector function required
by C63.4 - 2000 and FCC Rules. The procedure was repeated
with an average detector and a plot made. The calculated
field strength in the adjacent restricted band is
presented below.**

BASE

FRQU	2390(MHz)		2483.5(MHz)	
	AV	AV	AV	AV
Ant Pol	H	V	H	V
S/A Reading	35.1	35.2	35.1	35.3
ACF	27.6	27.6	27.7	27.7
Coax loss	3.2	3.2	3.3	3.3
Amp Gain	31.5	31.5	32.8	32.8
Duty Factor	-6.6	-6.6	-6.6	-6.6
RESULT	27.8	27.9	26.7	26.9

Headset

FRQU	2390(MHz)		2483.5(MHz)	
	AV	AV	AV	AV
Ant Pol	H	V	H	V

Applicant:BACKMI CORPORATION

FCCID:RNDDA579H

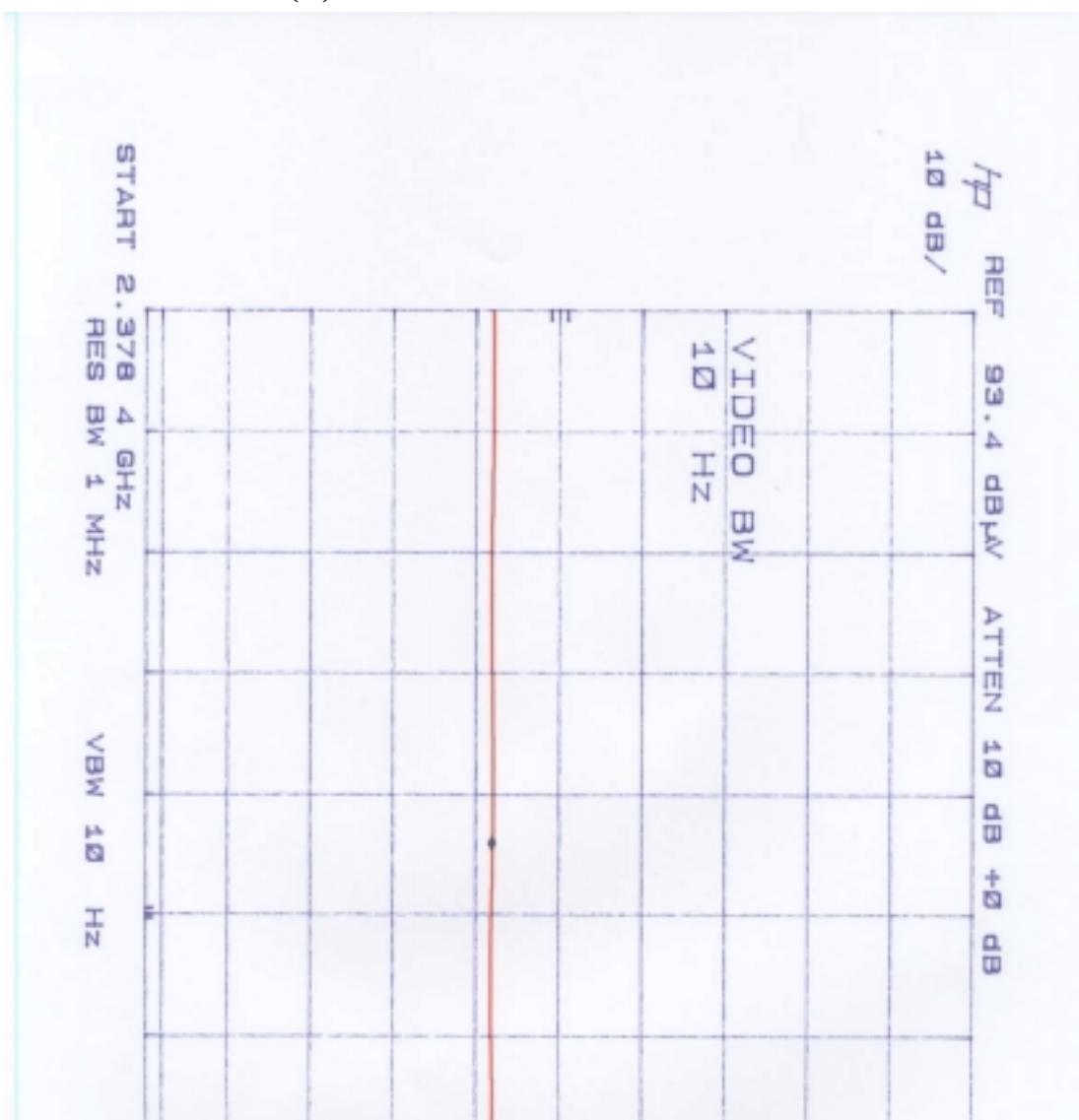
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S/A Reading	35.3	35.4	35.4	35.9
ACF	27.6	27.6	27.7	27.7
Coax loss	3.2	3.2	3.3	3.3
Amp Gain	31.5	31.5	32.8	32.8
Duty Factor	-6.8	-6.8	-6.8	-6.8
RESULT	27.8	27.9	26.8	27.3

Result =Reading + ANT Factor -AmpGain +CABLELOSS +DutyFactor

HEADSET 2390MHz(H) RESTRICTED BAND

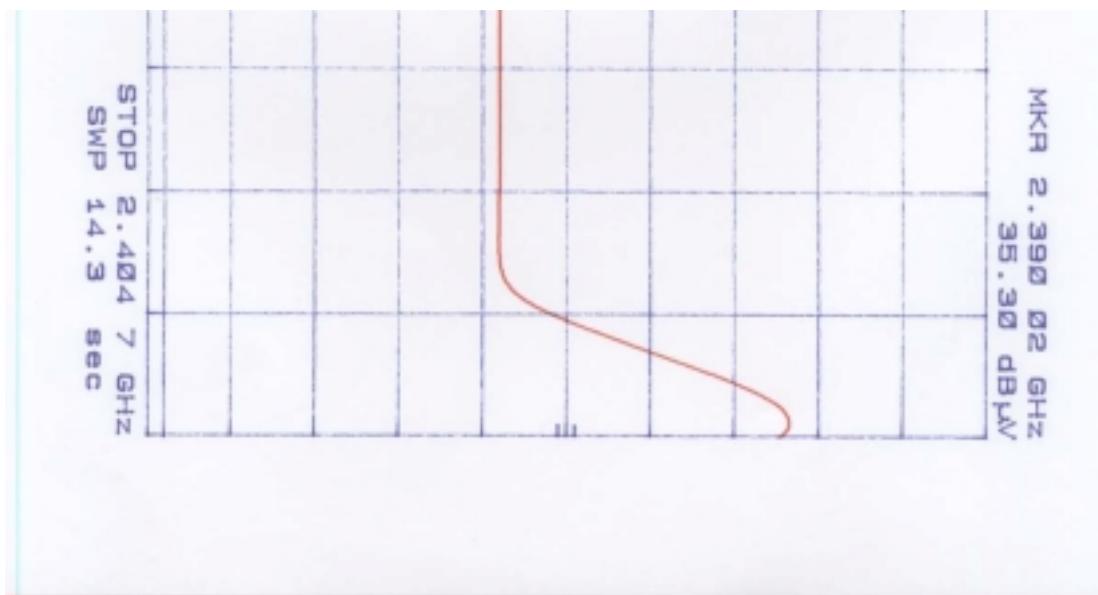


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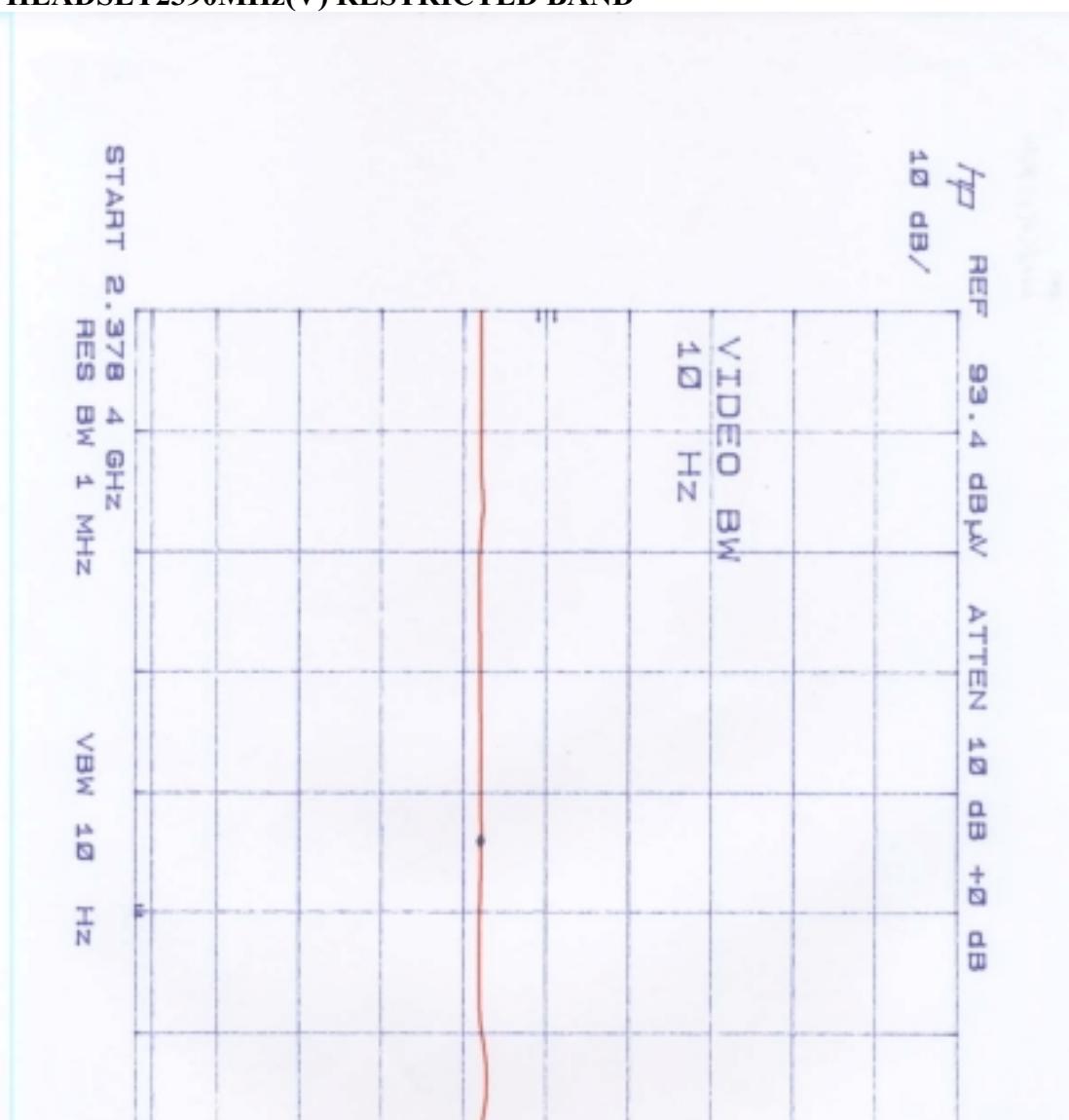
FCCID:RNDDA579H

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HEADSET 2390MHz(V) RESTRICTED BAND

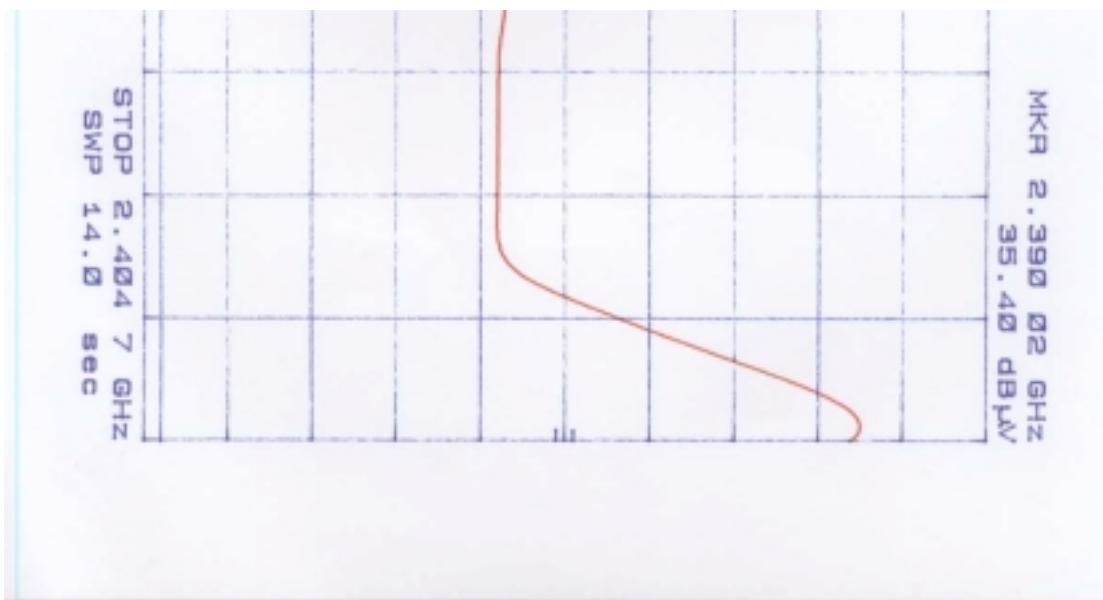


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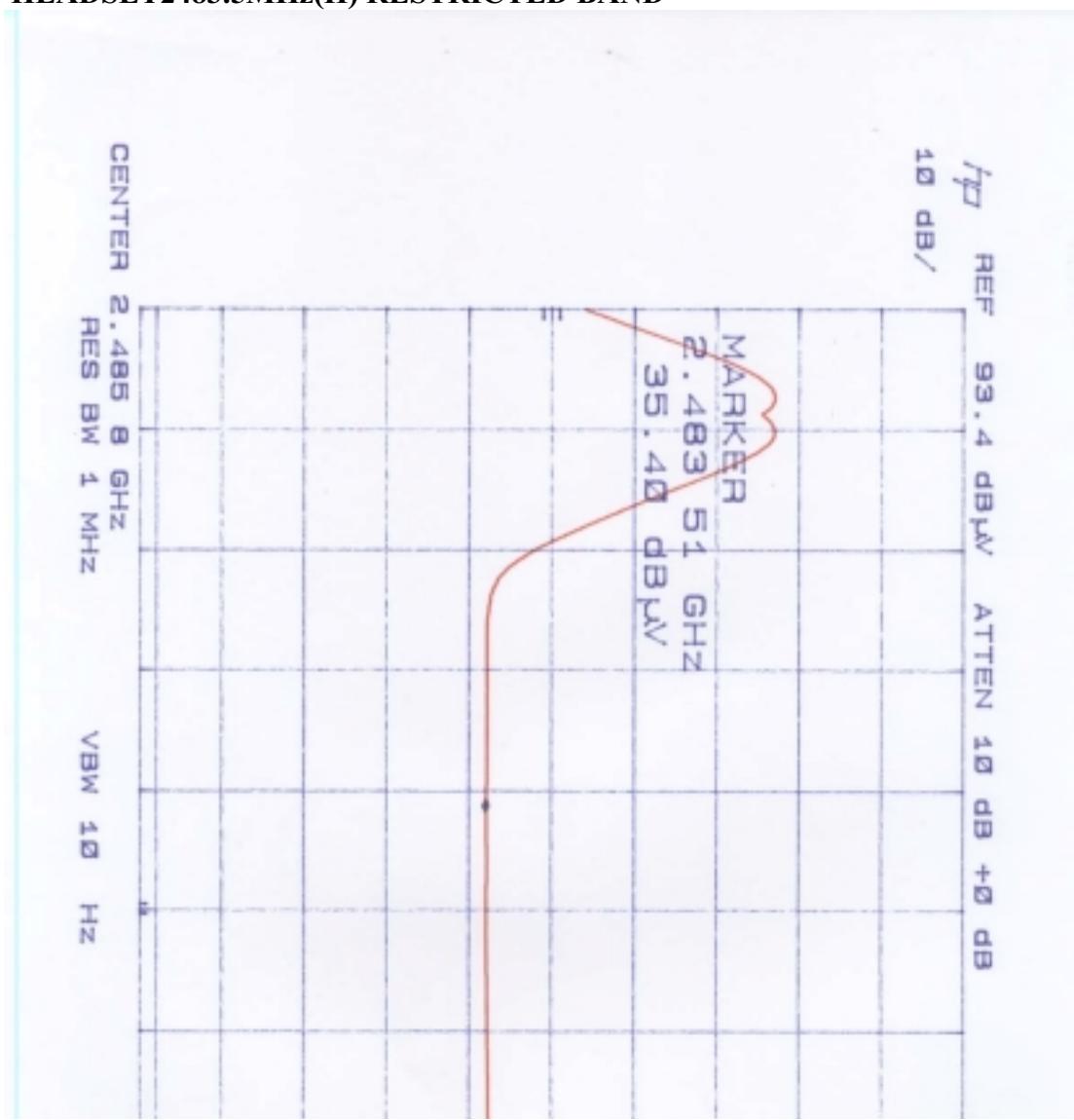
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HEADSET 2483.5MHz(H) RESTRICTED BAND

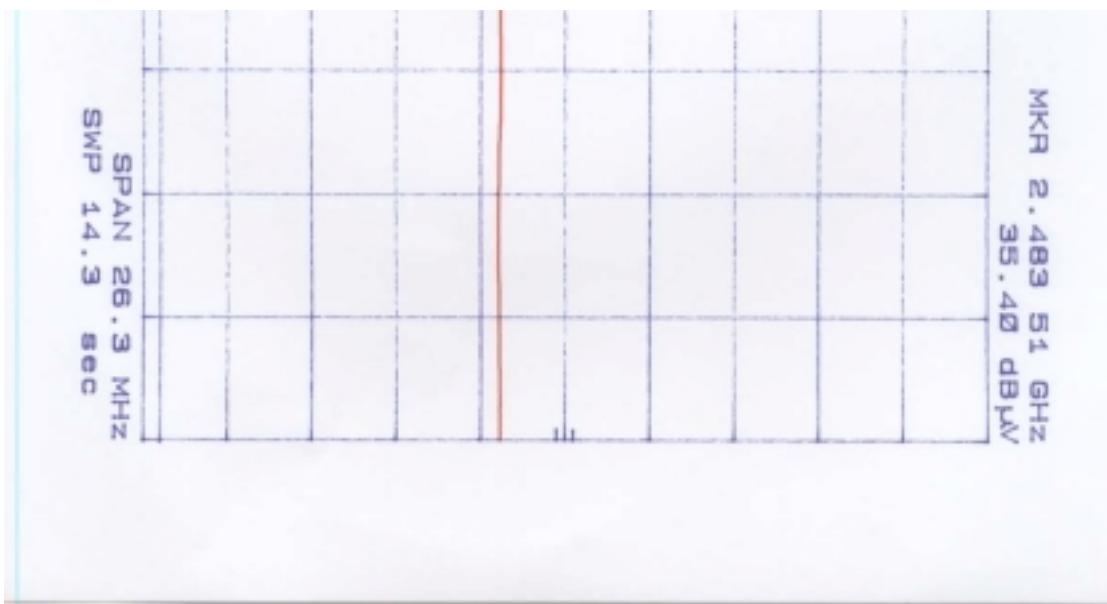


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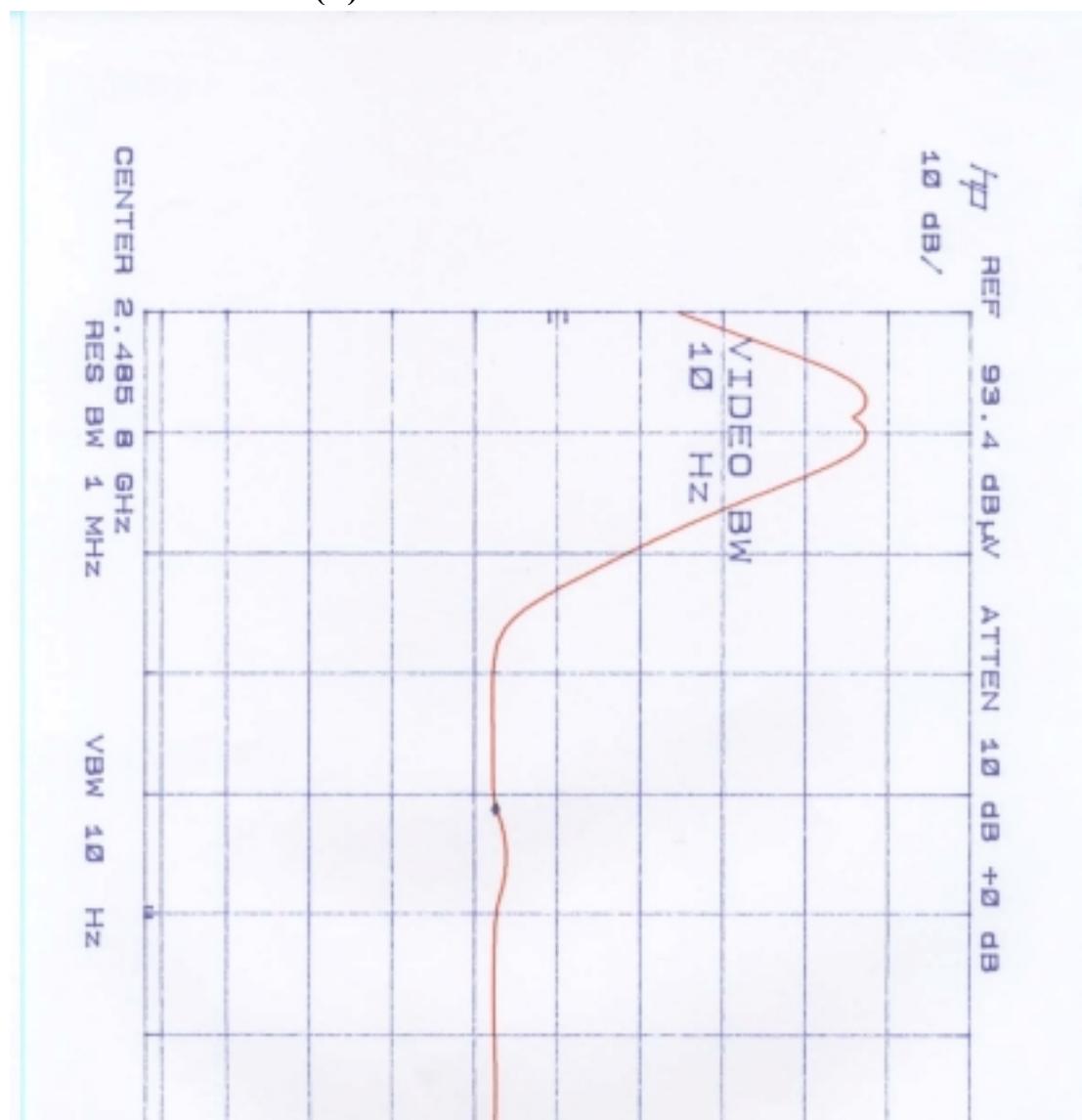
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HEADSET 2483.5MHz(V) RESTRICTED BAND

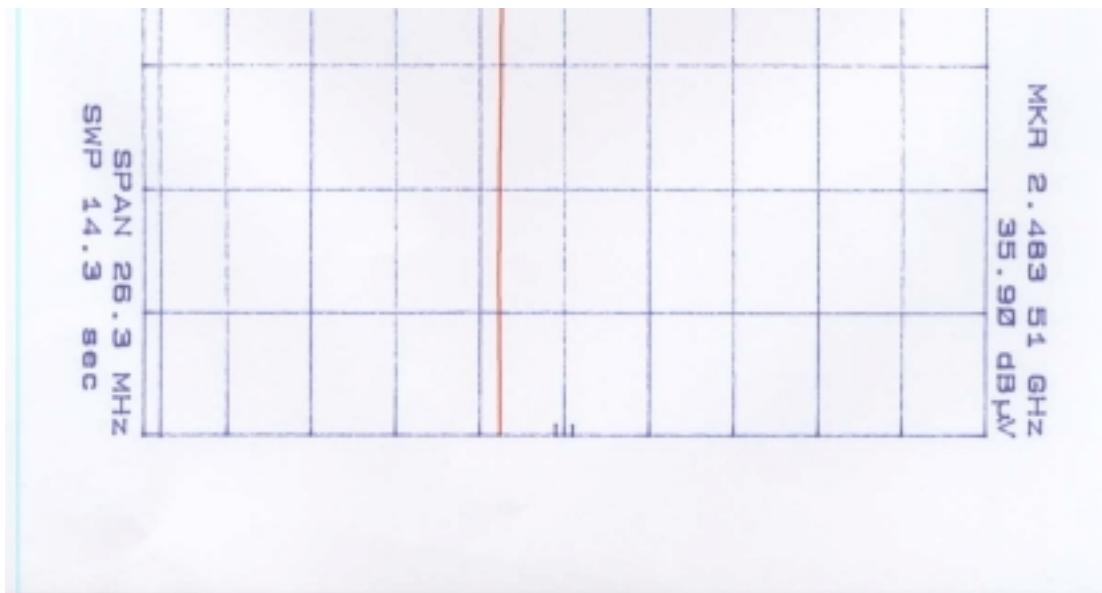


Applicant: BACKMI CORPORATION

FCCID: RNDDA579H

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APPLICANT: BACKMI CORPORATION

FCC ID: RNDDA579B

NAME OF TEST: POWER SPECTRAL DENSITY (Conducted)

RULES PART NUMBER: 15.247 (d)

REQUIREMENTS: The power spectral density averaged over any 1 second interval shall not be greater than 8dBm in any 3KHz bandwidth within these bands.

TEST DATA:

The spectrum lone spacing couls notbe resolved so the noise power density was measured;

Measurement Method:

Starting from the setting that were used for the 6 dB bandwidth the Peak signal was located and the span was reduced and the sweep time increased in a manner to maintain calibration and to keep the pea emission in the display, then the sweep time was increased to 500seconds at 1.5Mhz span and a RBW changed to 3kHz. The spectrum analyzer was put into the noise power mode and the plots mode.

Headset	CHANNEL	dBm	LIMIT
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Applicant:BACKMI CORPORATION

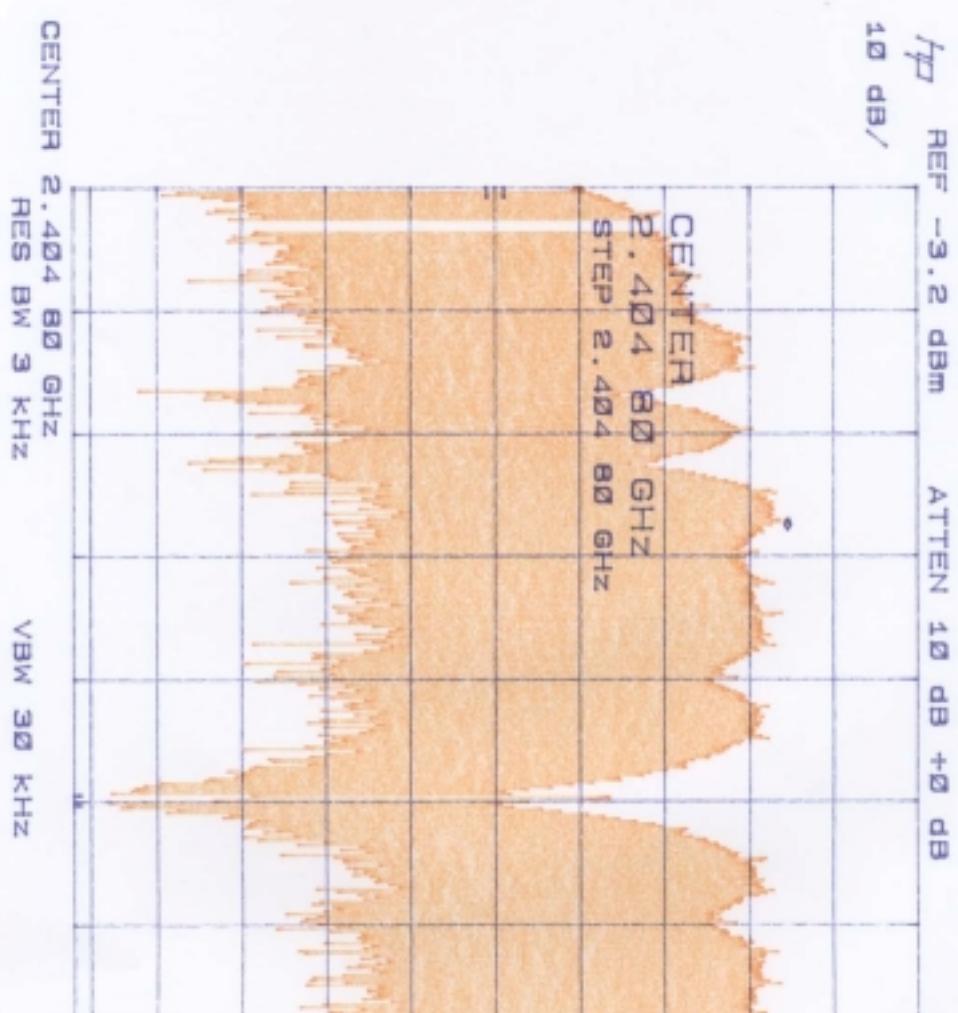
FCCID:RNDDA579H

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1	-18.7	Less than
20	-19.5	8
40	-21	dBm

HEADSET I CH POWER SPECTRAL DENSITY

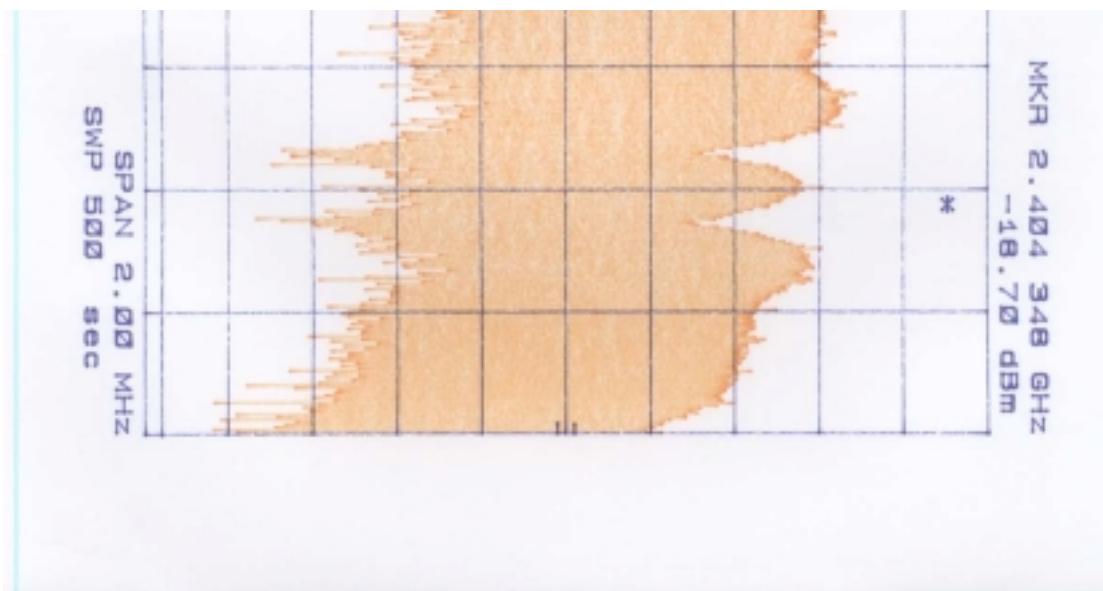


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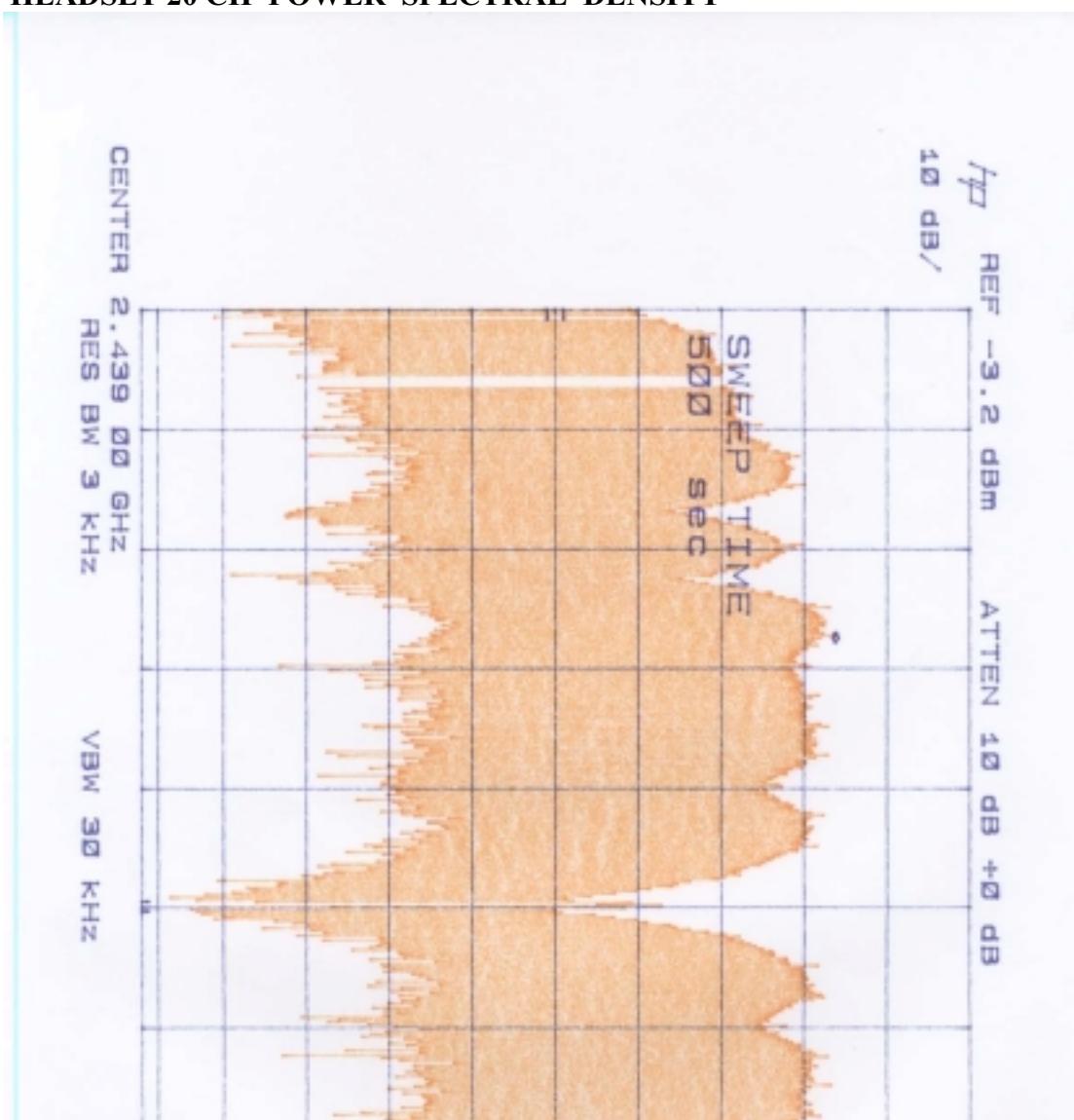
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HEADSET 20 CH POWER SPECTRAL DENSITY

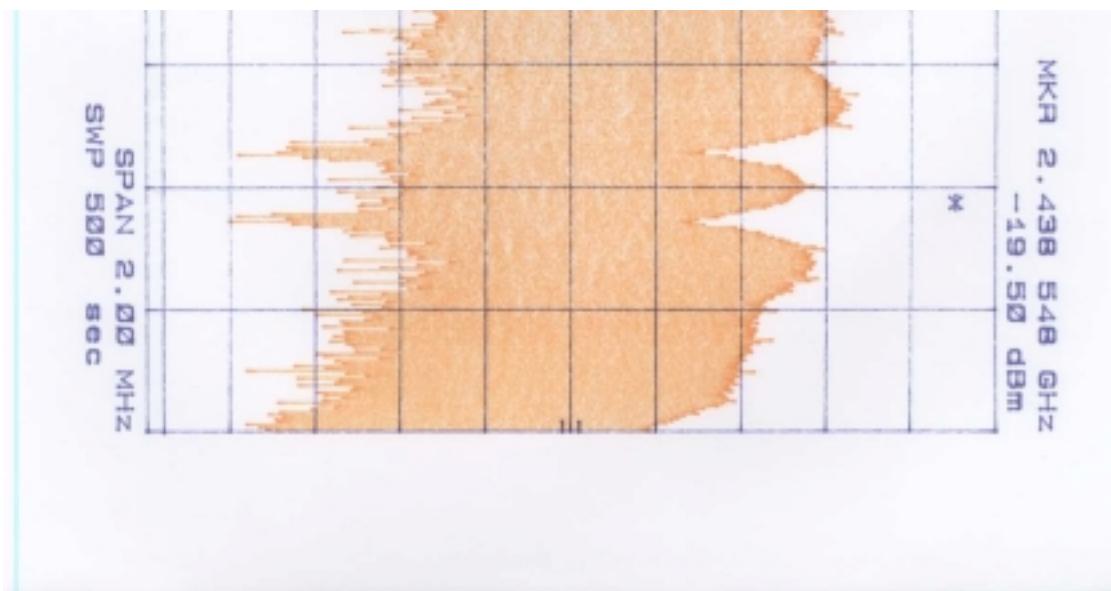


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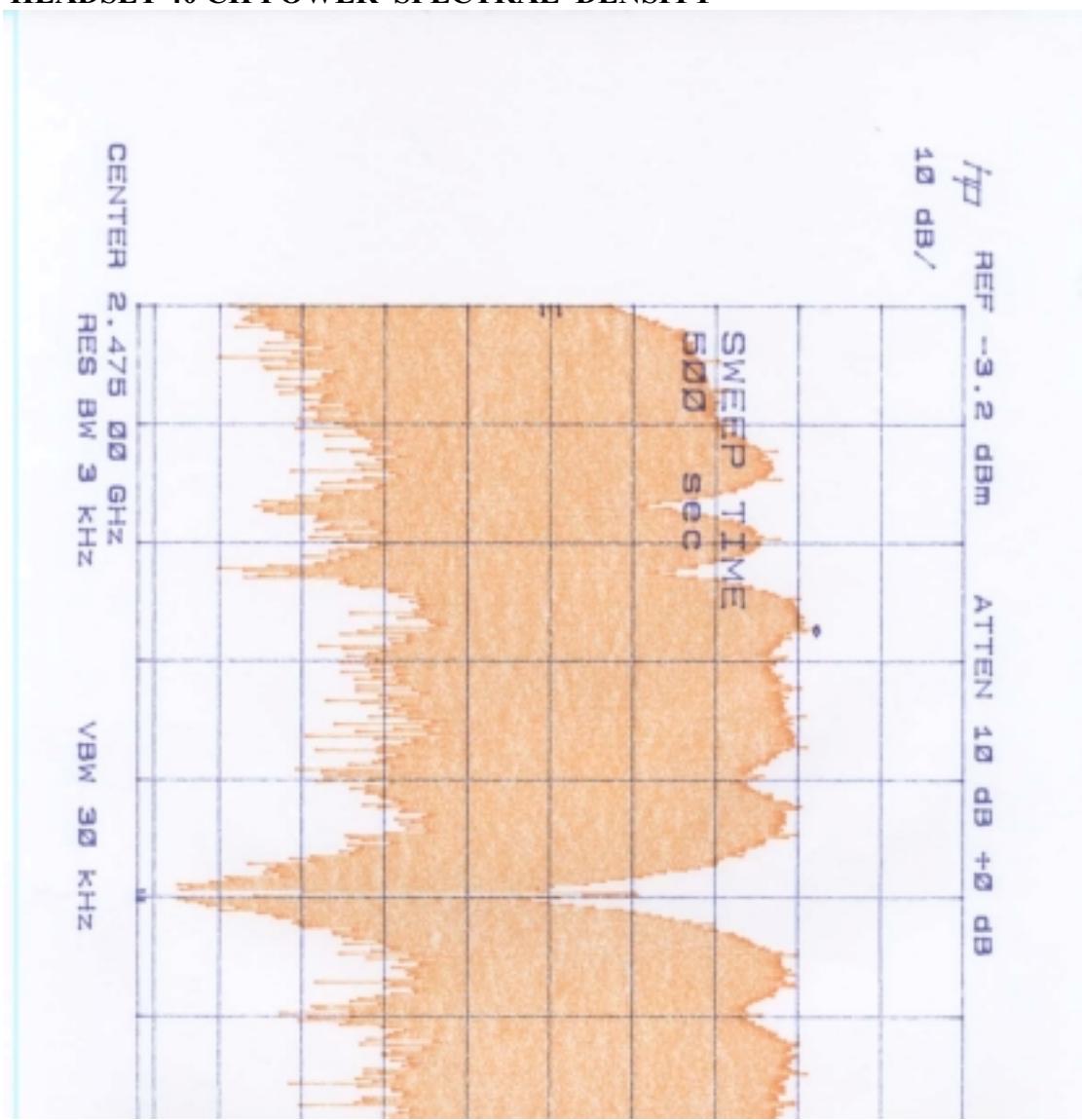
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HEADSET 40 CH POWER SPECTRAL DENSITY

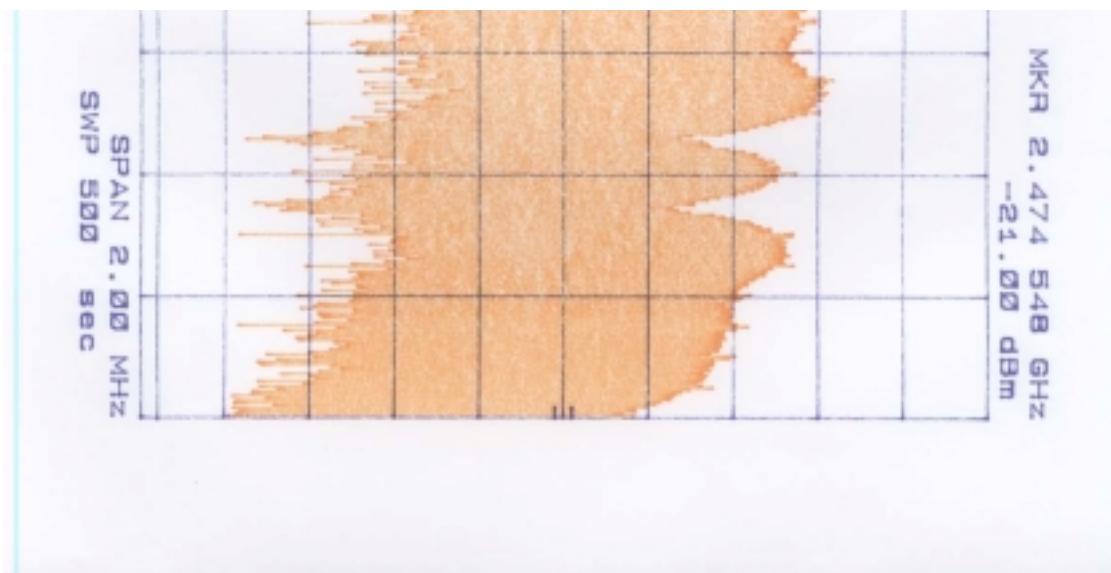


Applicant: BACKMI CORPORATION

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