

TEST NUMBER – 354-05

TEST REPORT TO
FEDERAL COMMUNICATIONS COMMISSION CFR47 PART95

Low Power Licensed Radio communication Devices
Medical Telemetry Service Transceiver
In the bands 1395-1400 and 1427-1432 MHz

for

Philips Medical Systems
Cardiac and Monitoring Systems
3000 Minuteman Drive
Andover, MA 01810
978-659-2800

of

Instrument Telemetry Service Module-ITS

Model M4840-65708

on

December 6 – 8, 2005



Brian F. Breault

Reviewed by



Larry K. Stillings

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TEST DESCRIPTION

1. TEST OBJECTIVE

To test the Instrument Telemetry Service Module, Model M4840-65708 to FCC Part 95 Rules and write a report.

2. E.U.T. DESCRIPTION

GENERAL

The Instrument Telemetry Service Module, Model M4840-65708 is RF module that provides an RF link to a monitoring station via Philips telemetry infrastructure including the Access Point transceiver.

FREQUENCIES USED : 1395.9, 1397.5, 1399.1, 1427.9, 1429.5, 1431.1 MHz

MODULATION SCHEME: FSK with Root Raised Cosine Filtering

SERIAL NUMBERS : A00010

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TEST RESULTS AND CONCLUSIONS

Rule Section	Requirement	Notes	Pass	Fail
95.1109(b)	Labeling	See Exhibits FCC Label Sample and Label Location.	1	
95.115(a)(2)	Field Strength Limits		X	
95.115(b)	Undesired Emissions Limits		X	
95.115(c)	Emission Type	Transmits Data and ECG Waveform	X	
95.115(e)	Frequency Stability	Data Provided By Philips Medical	1	
95.1125	RF Safety	Statement and Technical Basis	1	

Note 1.) Exhibits provided by Philips for approval submission.

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TEST RESULTS AND CONCLUSIONS

PRODUCT TESTED - Instrument Telemetry Service Module-ITS

MODEL NUMBER - M4840-65708

RADIATED EMISSIONS TEST RESULTS

The test results show that the emissions radiated from this equipment are in compliance with FCC Rules Part 95.

OCCUPIED BANDWIDTH & OUTPUT POWER

The test results show that the occupied bandwidth and output power of this equipment are in compliance with FCC Rules Part 95 .

CONDUCTED EMISSIONS TEST RESULTS

N/A (see Part 15 report)

ANALYSIS AND CONCLUSIONS

Based upon the radiated and conducted measurements we find that this equipment is within the limits of the FCC Rules Part 95. All results are based on a test of one sample, and represent other production units, only in as much as a sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

NOTES (Special conditions unique to this test)

None.

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TEST PROCEDURES

1. TEST EQUIPMENT

- A. HP 8546A (9 kHz - 6.5 GHz) EMI Receiver w/ RF Filter Section, S/N 3704A00323 / 3650A00360.
- B. HP 8593E (9 kHz - 26.5 GHz) Spectrum Analyzer, S/N 3829A03887.
- C. Com-Power Biconilog Antenna, Model AC220, S/N 25509.
- D. Electro-Metrics Double Ridged Guide Antenna, Model EM-6961, S/N 6337.
- E. HP 1 - 26.5 GHz Preamplifier, Model 08449B, S/N 3008A01323.
- F. Mini-Circuits DC - 18 GHz, 6 dB Attenuator, Model MCL BW-S6W2, S/N 0431.
- G. Mini-Circuits 3 GHz - 7 GHz, High Pass Filter, Model VHP-26, S/N 0334.
- H. Bandpass Filter 8 GHz - 12 GHz, Model 22102-0001, S/N 0304.

2. FREQUENCY RANGE TO BE SCANNED.

- A. Radiated Test from 30 MHz to 40 GHz (or the 10th harmonic of the highest frequency, whichever is lower).
- B. Conducted Test from 150 kHz to 30 MHz.

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3. TEST PROCEDURES.

Radiated Emissions test procedure:

The EUT, associated cables and peripheral devices are placed on the supporting table and any support equipment is placed off the site. The EUT is turned on and any necessary operating or test software installed and allowed to warm up. The EUT is pre-scanned in our ferrite tile lined chamber where it is rotated 360 degrees and examined in both horizontal and vertical polarization, all emission frequencies are identified and recorded. The EUT is then moved to the OATS and the frequency band from 30 MHz to 40 GHz is scanned, all frequencies identified in the chamber are investigated, as well as harmonic frequencies of the EUT. When an emission is found the emission is maximized by varying the bundle position of the connecting cables, the antenna height, the antenna polarization (vertical and horizontal) and the table orientation (360 degrees). The maximum reading is recorded and the next signal is searched for.

Conducted Emissions test procedure:

The power line of the EUT is connected to the LISN (Line Impedance Stabilization Network). A measurement of the emissions are made from the power line for both phase and neutral on the analyzer in the frequency range from 450 kHz to 30 MHz. The maximum readings are recorded for each phase.

All measurements are made according to the procedures defined in: "ANSI C63.4-2003 Standard Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronics Equipment in the Range of 9 kHz to 40 GHz, American National Standard for (ISBN 1-55937-215-5).

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FCC Part 95.1115 Test Limits

1. Part 95.1115(a)(2) Field Strength Radiation Limits:

Frequency MHz	Distance meters	Limit dB μ V/m	Limit μ V/m
1395-1400	3	117.4*	740000*
1427-1429.5	3	117.4*	740000*

*NOTE: Average Limits

2. FCC Part 95.1115(b) Out-of-band emissions Limits (Quasi-Peak):

Frequency MHz	Distance meters	Limit dB μ V/m	Limit μ V/m
Below 960	3	46	200
Above 960	3	54*	500*

*NOTE: Average Limits

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TEST FACILITY DESCRIPTION

Compliance Worldwide is located on 357 Main Street in Sandown, New Hampshire. The conducted and radiated test sites, located at C.W. are used for Federal Communications Commission (FCC) testing and Industry Canada Testing. A site description is on file with the FCC in Columbia, MD USA. Site information is also on file with Industry Canada, anyone wishing to review this Test Facility Description is referred to file number **IC 3023**. This is currently on file at Industry Canada, 1241 Clyde Avenue, Ottawa, ON K2C 1Y3.

The radiated site is a 3/10 meter indoor site with an enclosure for the product and a basement for the personnel, support equipment and test equipment.

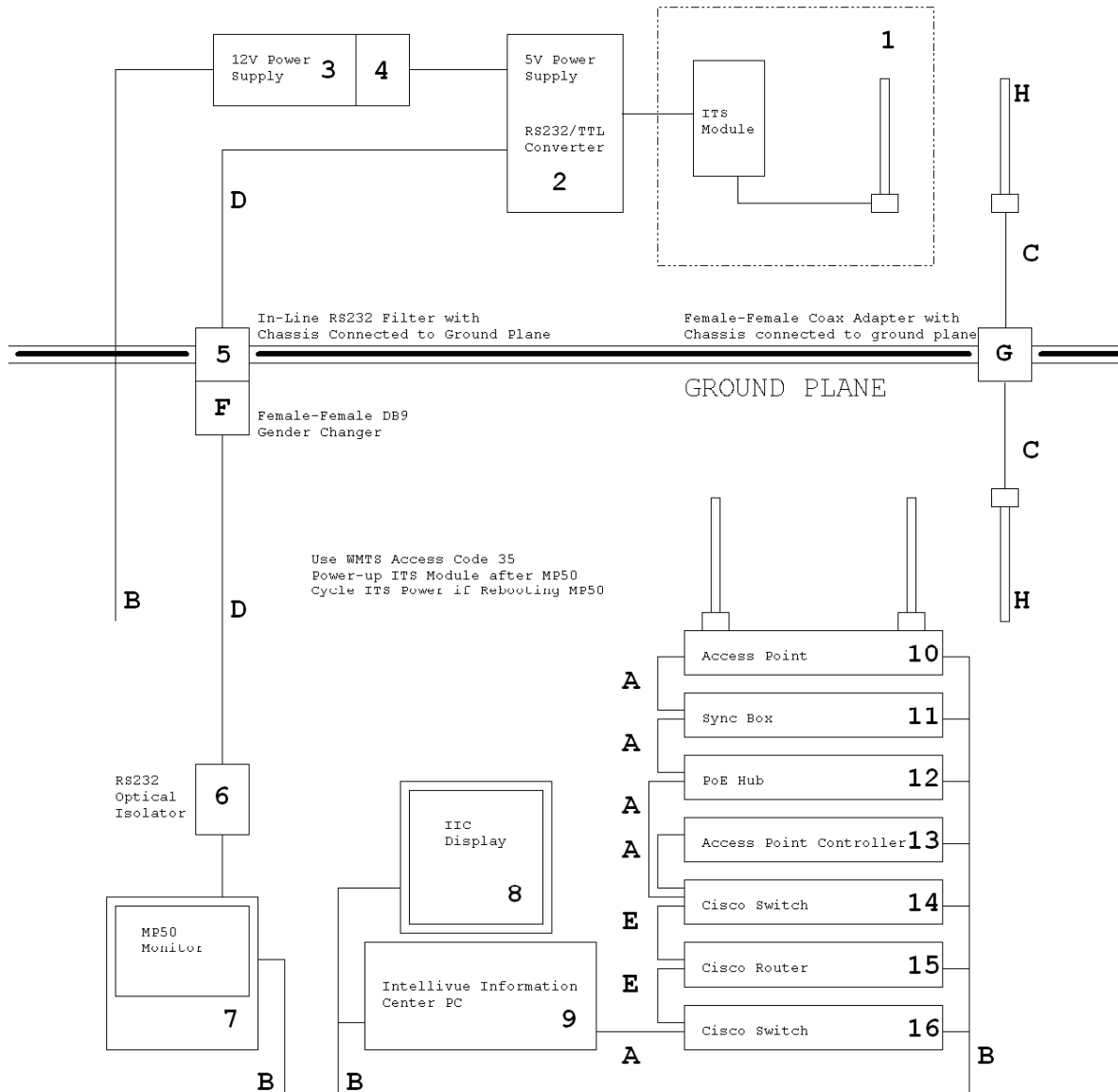
The conducted site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical metal wall required by EN 55022.

Both sites are designed to test products or systems 1.5 meter x 1.0 meter, floor standing or table top.

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TEST SET UP and PERIPHERAL CONNECTION INFORMATION

Block Diagram



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TEST SET UP and PERIPHERAL CONNECTION INFORMATION (continued)

EUT

Block #	Mfr.	Model / Part #	Opt.(s)	HW Rev.	FW Rev.	SW Rev	Serial # (if available)	Nominal Test Voltage/Freq.	Description
1	Philips	M4840-65708*	NA	0001	5.1	NA	042410094	DC from UPC Supply	Instrument Telemetry Service Module- ITS
2	Philips	M809026491	NA	NA	NA	NA	000053	5VDC	ITS Interface Adapter Board
3	Philips	453563464761	NA	NA	NA	NA	1402C043613504-D	12VDC	UPC Universal Power Supply
4	Philips	453563469711	NA	NA	NA	NA	NA	12VDC	UPC 12 V Output Cable DB9 to LAN/DC Plug

* NOTE: 1.4GHz antennas for ITS are not available at this time. 2.4GHz antennas with necessary adapters will be used instead. This is not critical. Unshielded unterminated wire will also do the job. Just so there is no confusion --> The ITS module and Access Point come with, and will be tested with, the correct 1.4GHz antennas..

Support Equipment

Block #	Mfrgr	Model / Part #	Opt.(s)	HW Rev.	FW Rev.	SW Rev.	Serial # (if available)	Nom. Test Voltage	Description
5	Spectrum Control	56-105-004	NA	NA	NA	NA	NSN	NA	9-Pin D-Sub 470pF in-line filter
6	B&B Electronics	6 9POP4	NA	NA	NA	NA	NSN	NA	9-Pin RS232 Optical Isolator with 12V adapter
7a	Philips	M8004A	A34	NA	NA	B.11.04	DE44009956	230 VAC	Intellivue MP50 Patient Bedside Monitor
7b	Philips	M3001A	C18	NA	NA	NA	DE22752096	NA	Parameter Module, ECG/Resp., SP02, NBP, IBP, Temp.
7c	Philips	M3001A	C18	NA	NA	NA	DE12500024	NA	Parameter Module, ECG/Resp., SP02, NBP, IBP, Temp.
7d	Philips	M1032A	A02, ABA	NA	NA	NA	3805G06345	NA	VueLink Ventilator
7e	Philips	M1020B	NA	NA	NA	NA	DE49001189	NA	SP02 Module
7f	Philips	M1012A	C10	NA	NA	NA	3805621352	NA	CCO/C.O. Module
8	Philips	107T56	NA	NA	NA	NA	CNN52201RY	100-240V	Standard 17" monitor
9	Philips	7100 CMT	NA	NA	NA	NA	2UA5270VKY	100-240V	IntelliVue Information Center (PC)
10	Philips	M4842A	NA	NA	NA	NA	US52401414	120V	WMTS Access Point
11	Philips	M4844A	NA	NA	NA	NA	US42500087	100-240V	Sync Box
12	Power DSine	PD6006/AC	NA	NA	NA	NA	104346809001655D03	100-240V	Power-over-Ethernet Hub
13	Philips	M3171-6006	NA	NA	NA	NA	US4400238	120 VAC	WMTS Access Point Controller
14	Cisco	WS-C2950T-24	NA	NA	NA	NA	FOC0904S0AY	100-240V	Ethernet Switch
15	Cisco	WS-C3550-24-EMI	NA	NA	NA	NA	CAT0846X0AN	100-240V	Ethernet Router
16	Cisco	2950	NA	NA	NA	NA	FOC0904S09Q	100-240V	Ethernet Switch

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**TEST SET UP
and
PERIPHERAL CONNECTION INFORMATION (continued)**

Cables

Block Item Letter	Part #	Shielded? Y or N	Length	No. of Conductors (if avail.)	Port Tested? (Y/N)	Termination	Function / Description
A	NPN	N	2 m	8	N	Various devices	Category 5 UTP LAN cable (Generic)
B	NPN	N	2 m	3	N	Various devices	AC power cord
C	NPN	Y	5m	2	N	Aux. Antennas	50 Ohm Coax Cable (for auxiliary coupling of RF signal to Intellivue system.
D	NPN	Y	5m	9	N	TTL Converter	9-Pin Standard RS232 Serial cable
E	NPN	N	2m	8	N	CISCO Switch & Router	Crossover LAN Cable (Generic)
F	NPN	Y	NA	9	N	Optical Isolator	9-Pin D-Sub Female-Female Gender Changer (Generic)
G	NPN	Y	NA	2	N	Aux. Antennas	Female-Female Coax adapter (Generic)
H	HG2405R D-NM	Y	NA	2	Y	ITS Module	HyperLink 2.4GHz Antenna with RP-TNC to coax adapter

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DETERMINATION OF AVERAGE FACTOR

Total Duration of 1 cycle:	100ms
Total On-Time in 1 cycle:	$4 \times 412\mu\text{S} = 1.7\text{mS}$
On-Time divided by cycle:	$1.7\text{ms}/100\text{ms} = 0.017$
Average Factor:	$20 \times \log(0.017) = -35.4\text{dB}$

FCC maximum allowed average factor is –20dB.

See the following pages for supporting data.

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DETERMINATION OF AVERAGE FACTOR

Plot showing 4 transmissions in 100 ms window.

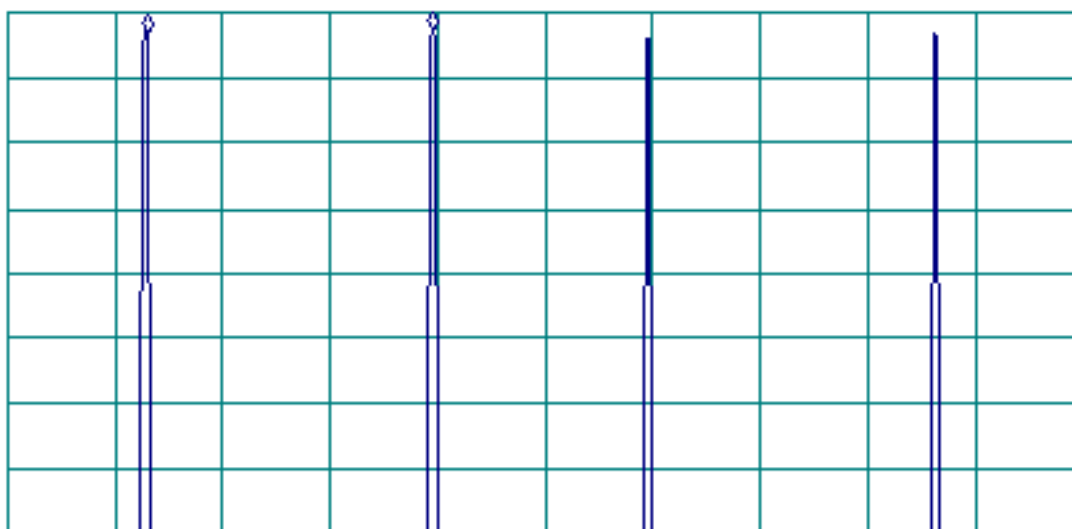
11:50:24 DEC 08, 2005 354-05 Phillips
Determination of Average Factor

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRΔ 26.500 msec
.07 dB

LOG REF 114 0 dBμV

2
dB/
#ATN
50 dB

VA SB
SC FC
CORR



CENTER 1.427900 GHz
RL IF BW 1.0 MHz

AVG BW 3 MHz

SPAN 0 Hz
#SWP 100 msec

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DETERMINATION OF AVERAGE FACTOR

Plot showing the length of individual transmission at 412uS.

11:45:40 DEC 08, 2005 354-05 Phillips
Determination of Average Factor

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKRA 412.00 μ sec
53.60 dB

LOG REF 114 0 dB μ V

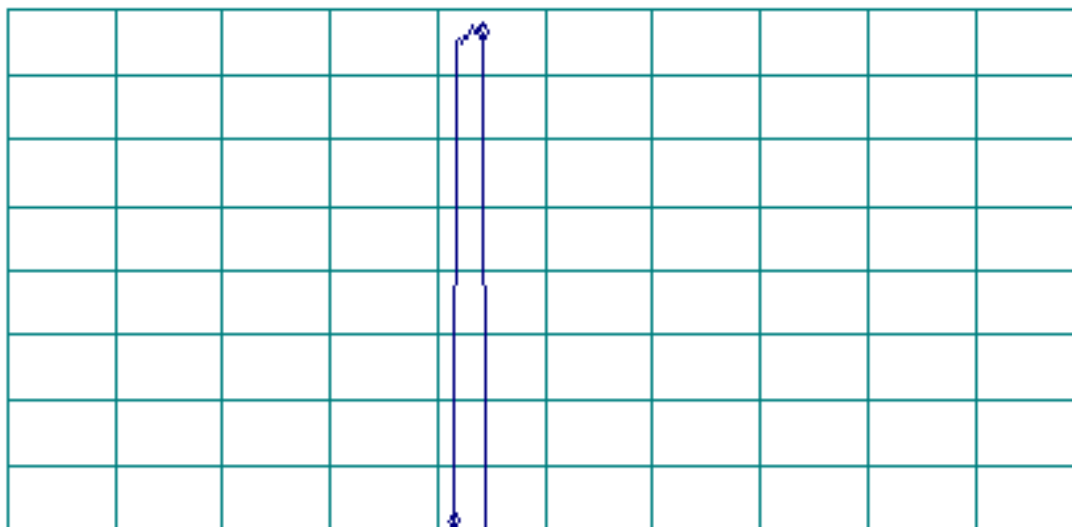
2
dB/
#ATN
50 dB

VA SB
SC FC
CORR

CENTER 1.427900 GHz
RL IF BW 1.0 MHz

AVG BW 3 MHz

SPAN 0 Hz
#SWP 15.0 msec



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RADIATED EMISSIONS TEST RESULTS

Frequency Range: 30 MHz – 14.5 GHz.

Measurement Distance: 3.0 Meters.

Bandwidth: 120 kHz, Per ANSI C63.4-2003.*

Detector Functions: Peak, Quasi Peak

Table Height: 0.8 meters

Antenna Height Variation: 1 - 4 Meters.

Horizontal and Vertical Polarization Measurements Taken.

*Measurement Bandwidth is 1 MHz above 960 MHz.

PLEASE SEE THE FOLLOWING PAGE FOR RADIATED EMISSIONS TEST DATA

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Radiated Worst Case Tabular Data

Data taken at 1 meter

Channel 1 frequency 1395.9 MHz

Frequency (MHz)	Polarization (H/V)	Peak Amp (dBμV/m)	Avg Amp (dBμV/m)	Avg Limit (dBμV/m)	Ave Margin (dB)
2791.18	V	67.32	47.32	64.0	-16.68
4188.40	V	64.33	44.33	64.0	-19.67
5584.54	V	51.89	31.89	64.0	-32.11
6979.50	V	52.96	32.96	64.0	-31.04*
8373.61	V	60.40	40.40	64.0	-23.60
9769.51	V	62.00	42.00	64.0	-22.00*
11167.20	V	66.95	46.95	64.0	-17.05*

* Noise Floor Measurement

Channel 3 Frequency 1399.1

Frequency (MHz)	Polarization (H/V)	Peak Amp (dBμV/m)	Avg Amp (dBμV/m)	Limit (dBμV/m)	Ave Margin (dB)
2798.69	V	72.72	52.72	64.0	-11.28
4198.09	V	59.07	39.07	64.0	-24.93
5595.19	V	62.11	42.11	64.0	-21.89
6994.24	V	54.36	34.36	64.0	-29.64*
8396.53	V	61.51	41.51	64.0	-22.49
9793.45	V	62.12	42.12	64.0	-21.88*
11195.11	V	67.75	47.75	64.0	-16.25*

* Noise Floor Measurement

Channel 4 Frequency 1427.9 MHz

Frequency (MHz)	Polarization (H/V)	Peak Amp (dBμV/m)	Avg Amp (dBμV/m)	Limit (dBμV/m)	Ave Margin (dB)
2855.84	V	69.22	49.22	64.0	-14.78
4282.77	V	51.17	31.17	64.0	-32.83
5712.64	V	51.68	31.68	64.0	-32.32
7140.53	V	52.96	32.96	64.0	-31.04*
8567.33	V	58.41	38.41	64.0	-25.59*
9995.21	V	62.52	42.52	64.0	-21.48*
11423.10	V	66.75	46.75	64.0	-17.25*

* Noise Floor Measurement

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Radiated Worst Case Tabular Data Continued

Channel 6 Frequency 1431.1 MHz

Frequency (MHz)	Polarization (H/V)	Peak Amp (dB μ V/m)	Avg Amp (dB μ V/m)	Limit (dB μ V/m)	Ave Margin (dB)
2862.20	V	63.82	43.82	64.0	-20.18
4294.04	V	67.63	47.63	64.0	-16.37
5725.51	V	49.48	29.48	64.0	-34.52*
7155.50	V	53.06	33.06	64.0	-30.94*
8587.34	V	58.41	38.41	64.0	-25.59*
10018.44	V	61.92	41.92	64.0	-22.08*
11449.54	V	67.15	47.15	64.0	-16.85*

* Noise Floor Measurement

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RADIATED OUTPUT POWER & OCCUPIED BANDWIDTH TEST RESULTS

Frequency Range: 1395-1400 and 1427-1429.5 MHz.

Measurement Distance: 3.0 Meters.

Bandwidth: As Noted, Per ANSI C63.4-2003.

Detector Functions: Peak

Table Height: 0.8 meters

Antenna Height Variation: 1 - 4 Meters.

Horizontal and Vertical Polarization Measurements Taken, Worst Case Reported.

PLEASE SEE THE FOLLOWING PAGES FOR OCCUPIED BANDWIDTH RADIATED TEST DATA

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Channel 1 Output Power Plot

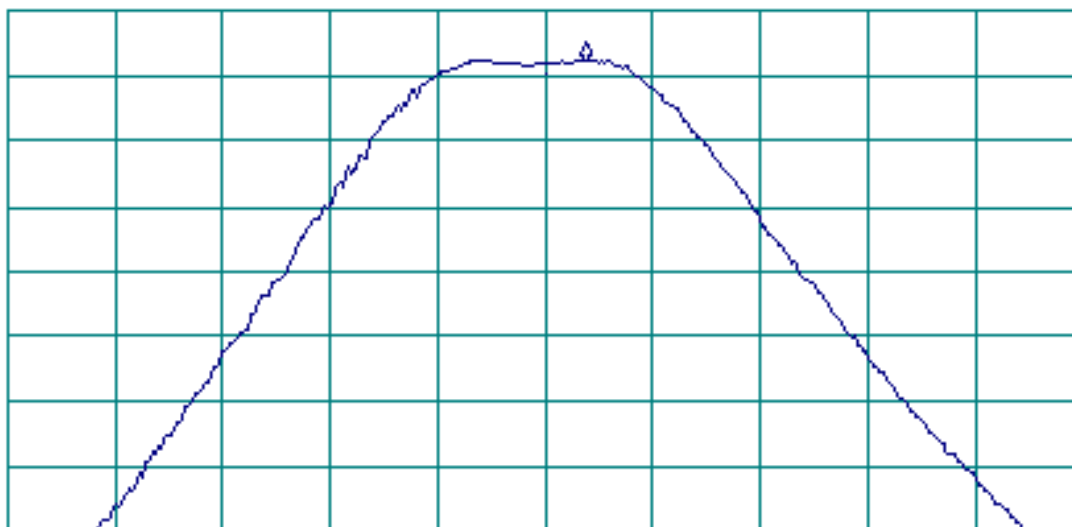
09:31:52 DEC 08, 2005 354-05 Phillips
Channel 1 Output Power

ACTV DET: PEAK
MEAS DET: PEAK
MKR 1.396106 GHz
113.15 dBμV

LOG REF 117.0 dBμV

5
dB/
#ATTN
50 dB

VA SB
SC FC
CORR



CENTER 1.395900 GHz
RL #1F BW 1.0 MHz

#AVG BW 1 MHz

SPAN 5.500 MHz
SWP 20.0 msec

Freq (MHz)	Peak Amp (dBμV/m)	Avg Amp (dBμV/m)	Avg Limit (dBμV/m)	Avg Margin (dB)
1395.9	113.15	93.15	117.4	-23.8

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Channel 1 Occupied Bandwidth Plot

09:00:22 DEC 08, 2005 354-05 Philips
Channel 1 Occupied Bandwidth

ACTV DET: PEAK
MEAS DET: PEAK
MKR Δ 1.410 MHz
-0.97 dB

LOG REF 97.0 dB μ V

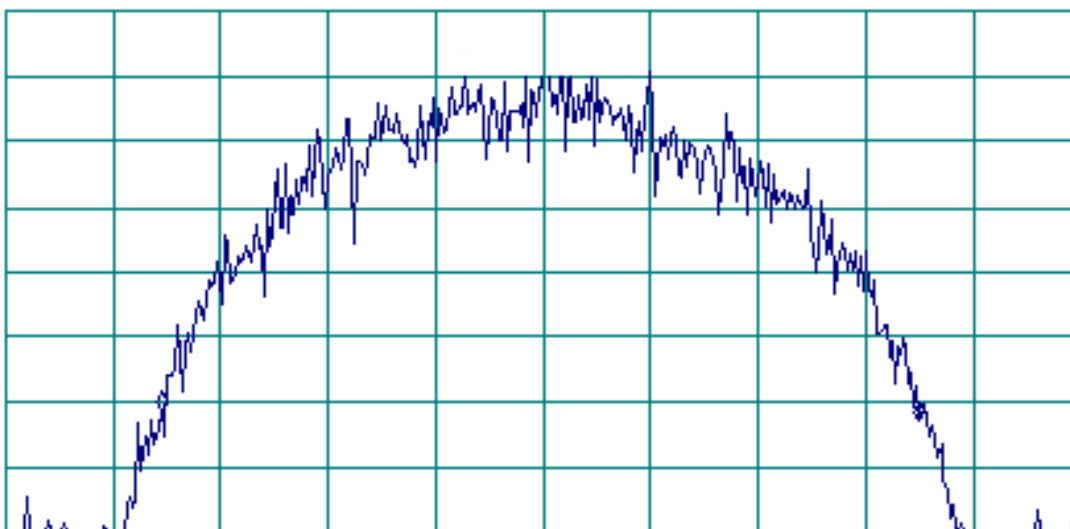
5
dB/
#ATN
30 dB

VA SB
SC FC
CORR

CENTER 1.395900 GHz
RL #1F BW 1.0 kHz

#AVG BW 30 kHz

SPAN 2.000 MHz
SWP 6.00 sec

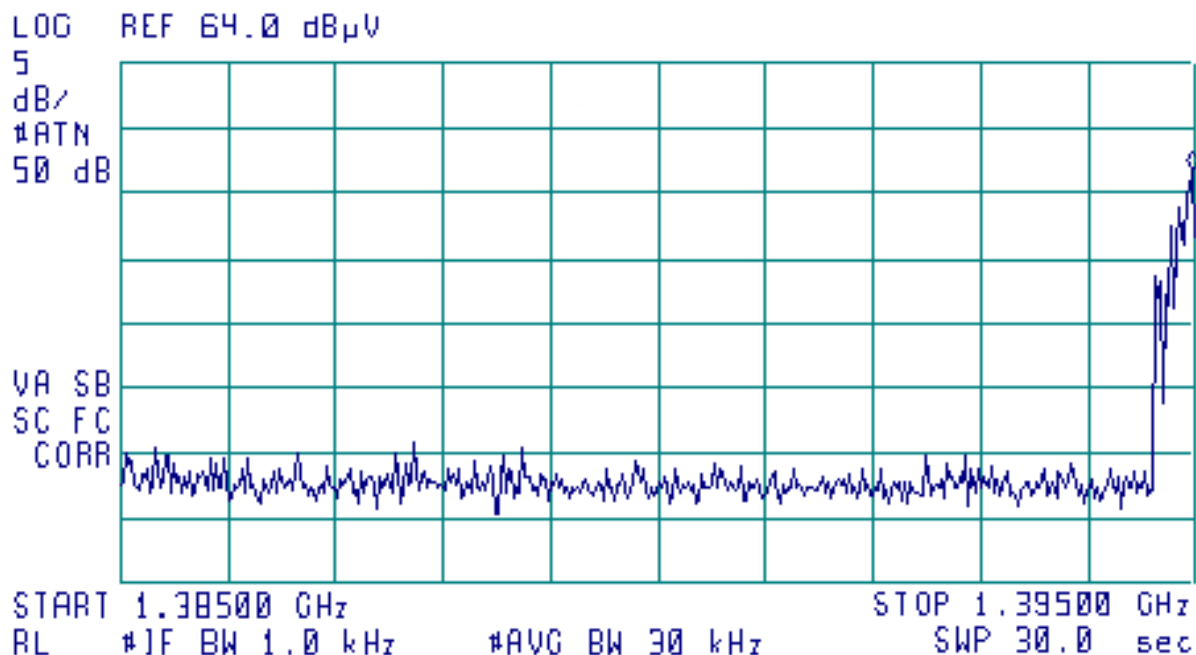


Freq (MHz)	26 dB Bandwidth (MHz)
1395.9	1.410

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Channel 1 Occupied Bandwidth Lower Band Edge

09:11:27 DEC 08, 2005 354-05 Phillips
Channel 1 Occupied Bandwidth Lower Band Edge
ACTV DET: PEAK
MEAS DET: PEAK
MKR 1.39498 GHz
55.70 dB μ V



The Channel 1 lower band edge is on the right side of a plot with a 10 MHz frequency span. The measured level is 55.70 dB μ V/m peak and 35.70 dB μ V/m average. The limit is 74 dB μ V/m peak and 54 dB μ V/m average, respectively. The resulting margin is -18.3 dB.

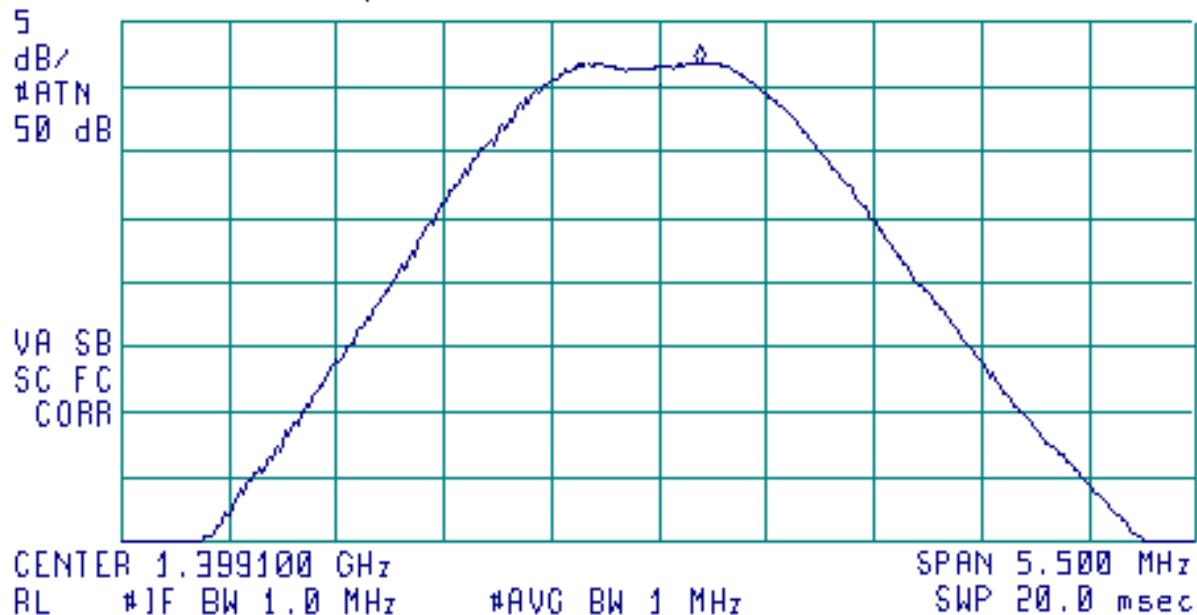
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Channel 3 Output Power Plot

09:25:35 DEC 08, 2005 354-01 Philips
Channel 3 Output Power

ACTV DET: PEAK
MEAS DET: PEAK
MKR 1.399306 GHz
113.74 dBμV

LOG REF 117.0 dBμV



Freq (MHz)	Peak Amp (dBμV/m)	Avg Amp (dBμV/m)	Avg Limit (dBμV/m)	Avg Margin (dB)
1399.1	113.74	93.74	117.4	-23.66

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Channel 3 Occupied Bandwidth Plot

10:01:36 DEC 08, 2005 354-05 Phillips
Channel 3 Occupied Bandwidth

ACTV DET: PEAK
MEAS DET: PEAK
MKR Δ 1.420 MHz
- .84 dB

LOG REF 97.0 dB μ V

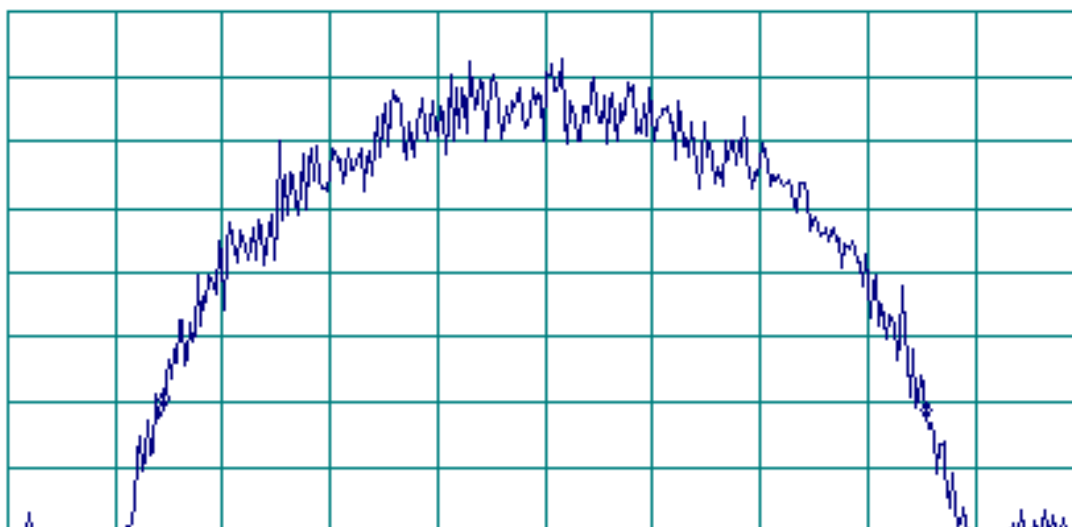
5
dB/
#ATN
40 dB

VA SB
SC FC
CORR

CENTER 1.399100 GHz
RL #1F BW 1.0 kHz

#AVG BW 30 kHz

SPAN 2.000 MHz
SWP 6.00 sec

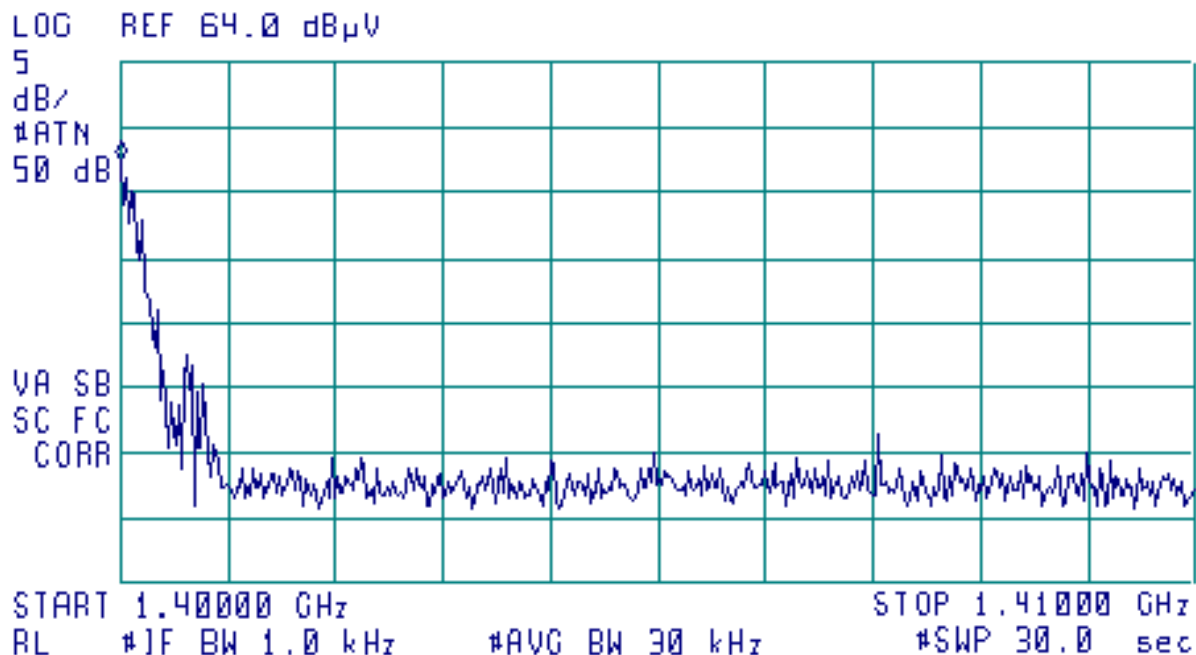


Freq (MHz)	26dB Bandwidth (MHz)
1399.1	1.420

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Channel 3 Occupied Bandwidth Upper Band Edge

11:14:37 DEC 08, 2005 354-05 Philips
Channel 3 Occupied Bandwidth Upper Band Edge
ACTV DET: PEAK
MEAS DET: PEAK
MKR 1.40000 GHz
56.45 dB μ V



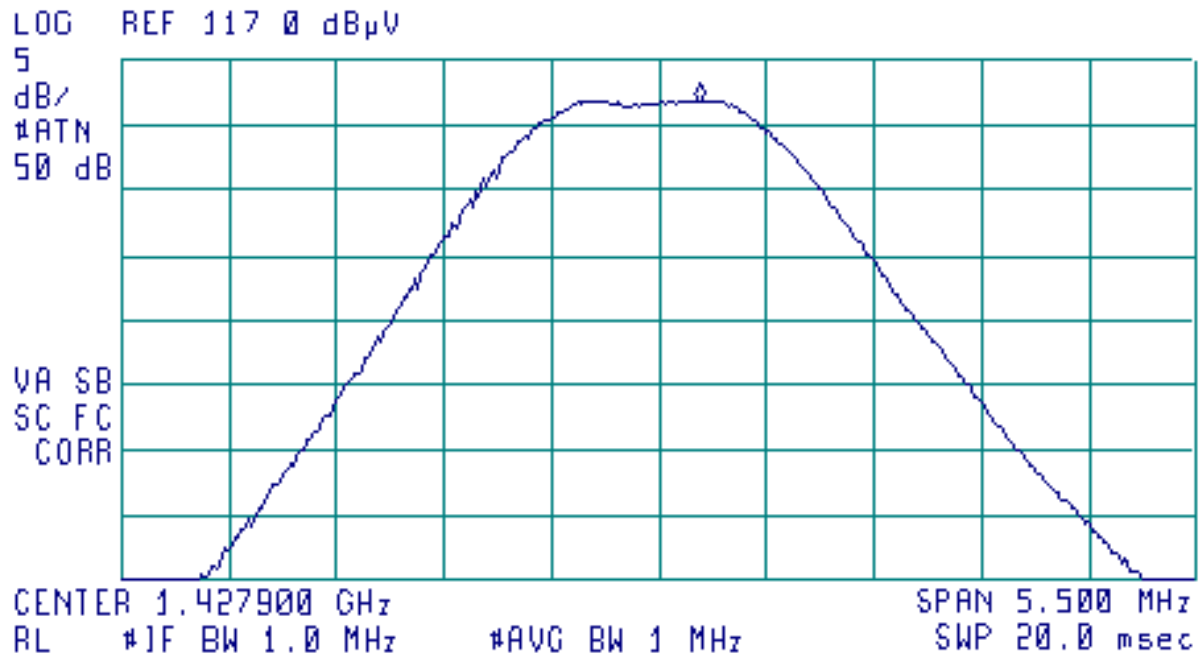
The Channel 3 upper band edge is on the left side of a plot with a 10 MHz frequency span. The measured level is 56.45 dB μ V/m peak and 36.45 dB μ V/m average. The limit is 74 dB μ V/m peak and 54 dB μ V/m average, respectively. The resulting margin is -17.55 dB.

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Channel 4 Output Power Plot

09:38:56 DEC 08, 2005 354-01 Philips
Channel 4 Output Power

ACTV DET: PEAK
MEAS DET: PEAK
MKR 1.428106 GHz
113.74 dBμV



Freq (MHz)	Peak Amp (dBμV/m)	Avg Amp (dBμV/m)	Avg Limit (dBμV/m)	Avg Margin (dB)
1427.9	113.74	93.74	117.4	-23.66

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Channel 4 Occupied Bandwidth Plot

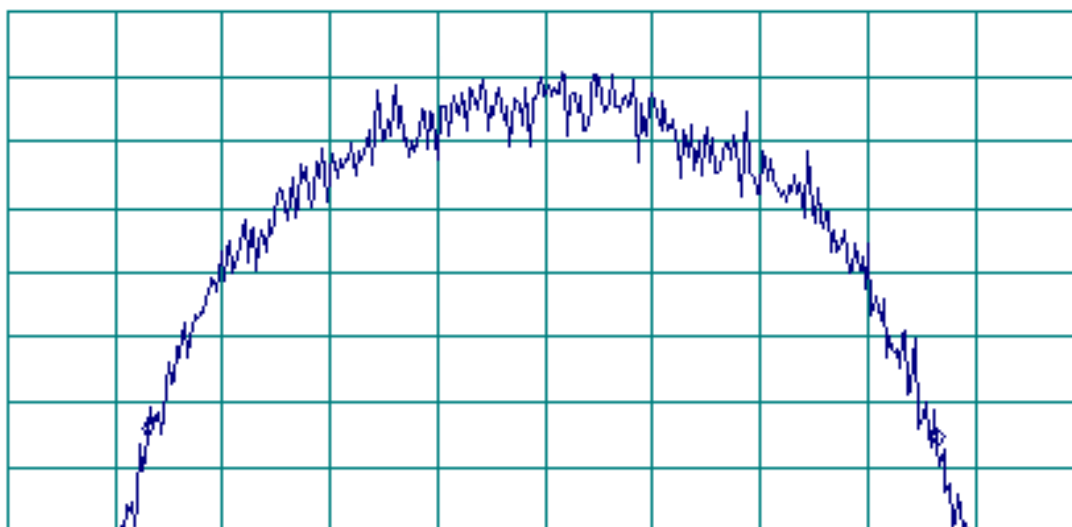
10:24:18 DEC 08, 2005 354-05 Phillips
Channel 4 Occupied Bandwidth

ACTV DET: PEAK
MEAS DET: PEAK
MKR Δ 1.470 MHz
- .63 dB

LOG REF 97.0 dB μ V

5
dB/
#ATN
40 dB

VA SB
SC FC
CORR



CENTER 1.427900 GHz
RL #1F BW 1.0 kHz

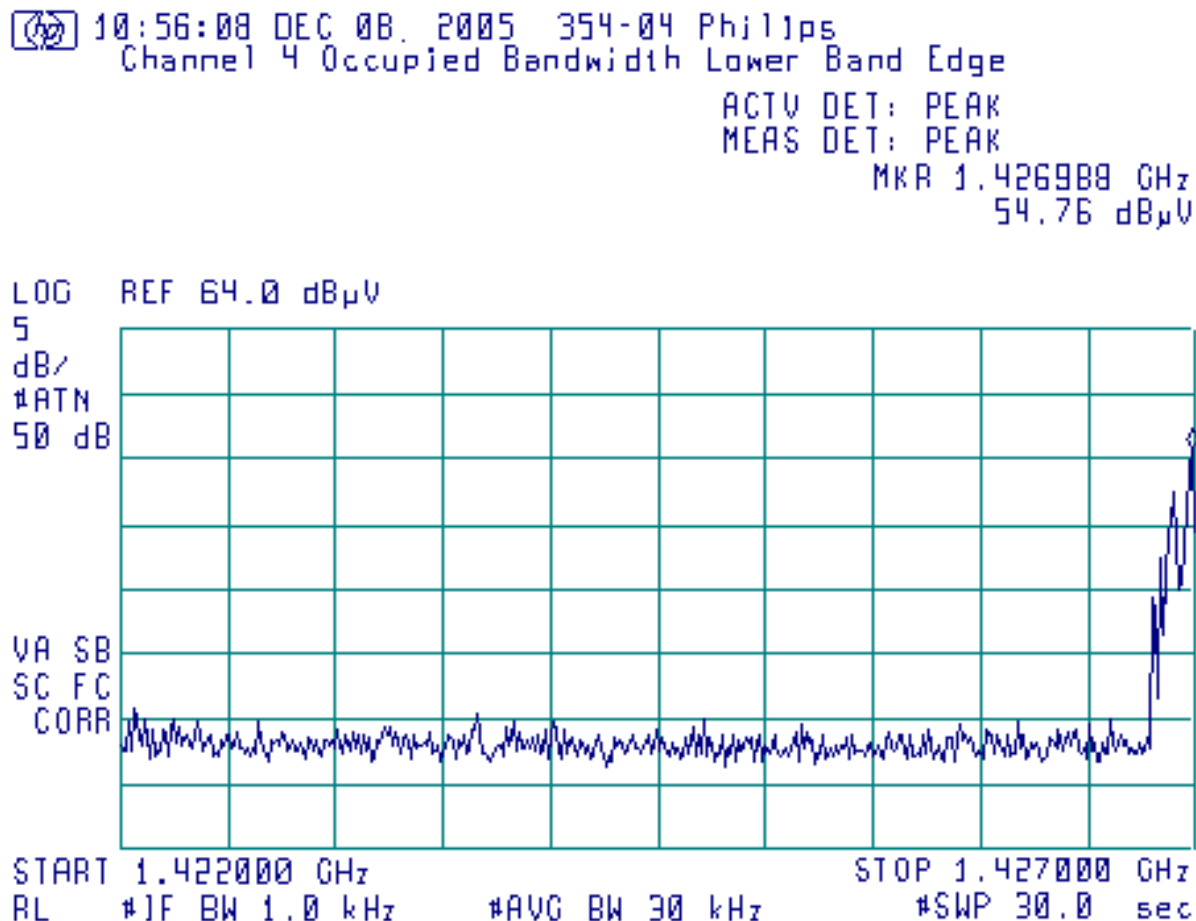
#AVG BW 30 kHz

SPAN 2.000 MHz
SWP 6.00 sec

Freq (MHz)	26dB Bandwidth (MHz)
1427.9	1.470

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Channel 4 Occupied Bandwidth Lower Band Edge Plot



The Channel 4 lower band edge is on the right side of a plot with a 10 MHz frequency span. The measured level is 54.76 dB μ V/m peak and 34.76 dB μ V/m average. The limit is 74 dB μ V/m peak and 54 dB μ V/m average, respectively. The resulting margin is -19.24 dB.

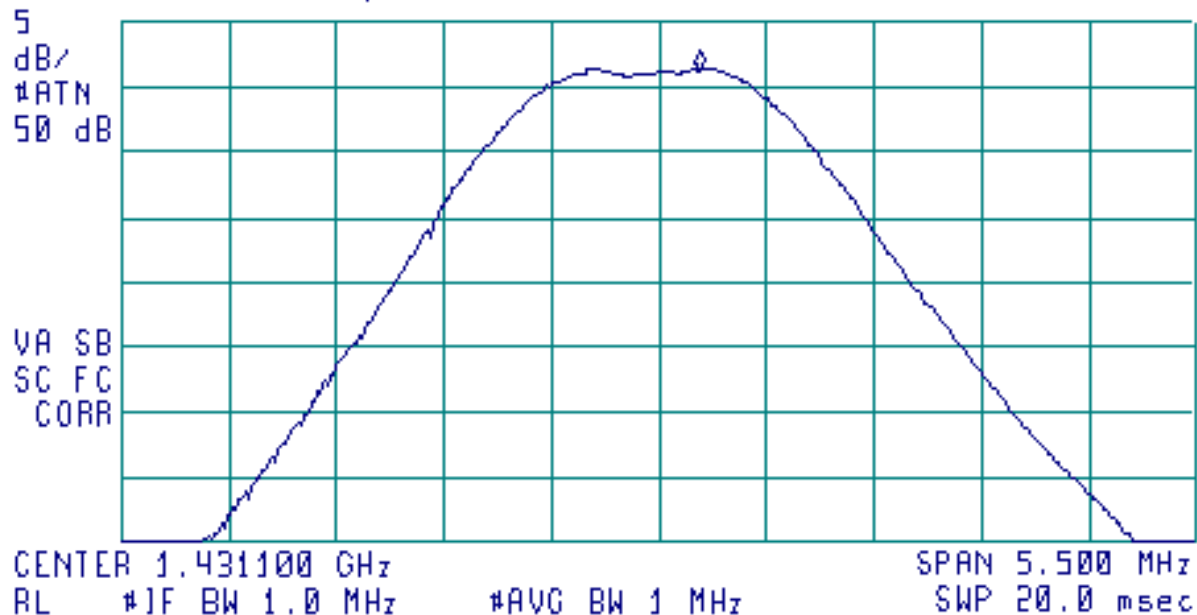
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Channel 6 Output Power Plot

09:50:09 DEC 08, 2005 354-05 Philips
Channel 6 Output Power

ACTV DET: PEAK
MEAS DET: PEAK
MKR 1.431306 GHz
113.27 dBμV

LOG REF 117.0 dBμV



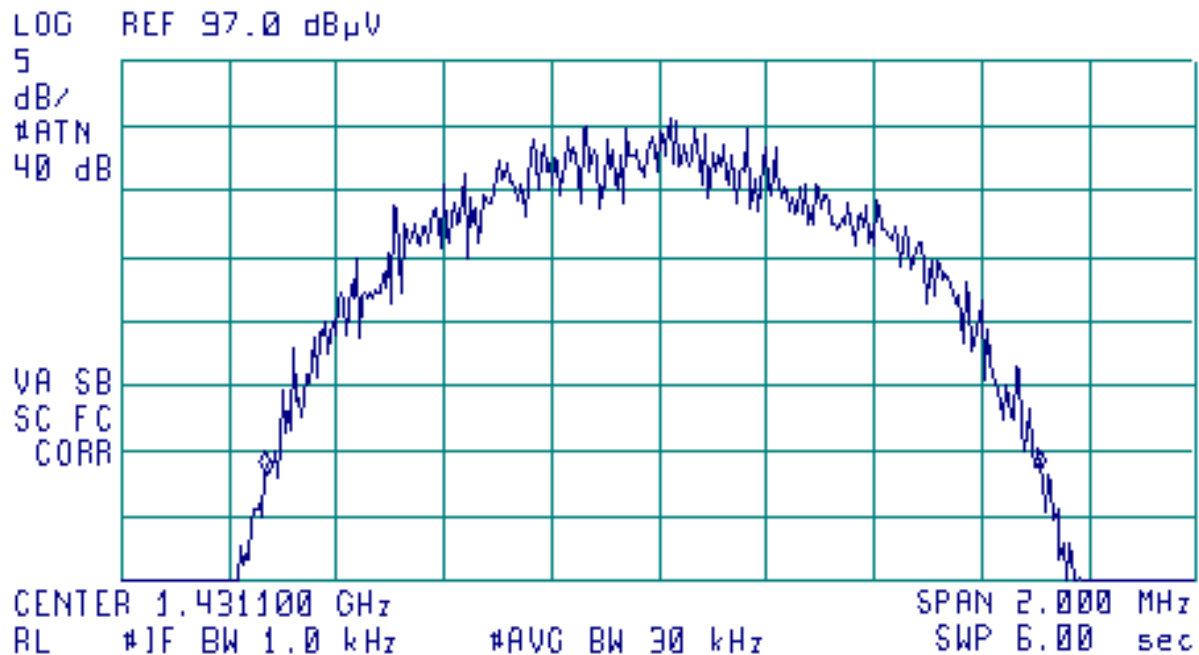
Freq (MHz)	Peak Amp (dBμV/m)	Avg Amp (dBμV/m)	Avg Limit (dBμV/m)	Avg Margin (dB)
1431.1	113.27	93.27	117.4	-24.13

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Channel 6 Occupied Bandwidth Plot

10:37:35 DEC 08, 2005 354-05 Phillips
Channel 6 Occupied Bandwidth

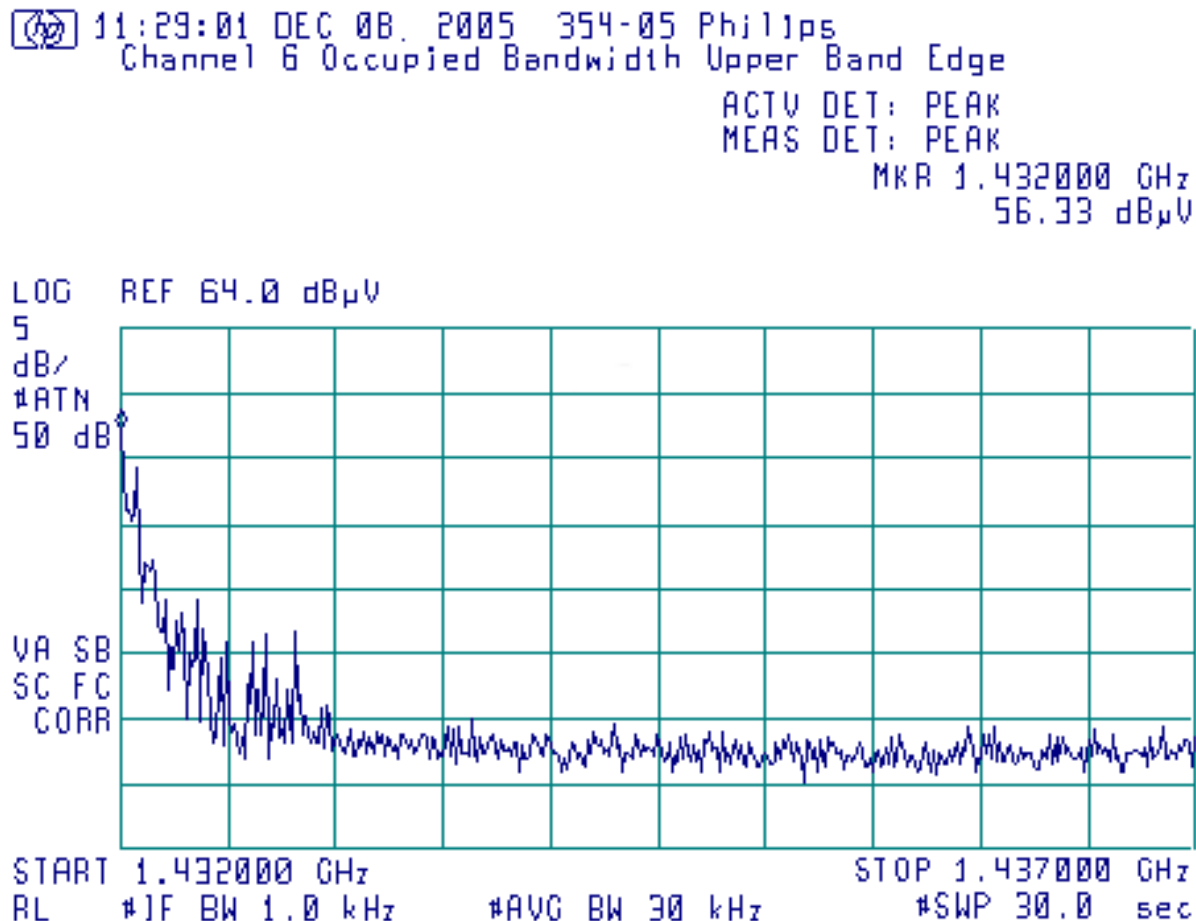
ACTV DET: PEAK
MEAS DET: PEAK
MKR Δ 1.445 MHz
-.08 dB



Freq (MHz)	26dB Bandwidth (MHz)
1431.1	1.445

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Channel 6 Occupied Bandwidth Upper Band Edge Plot



The Channel 6 upper band edge is on the right side of a plot with a 10 MHz frequency span. The measured level is 56.33 dB μ V/m peak and 36.33 dB μ V/m average. The limit is 74 dB μ V/m peak and 54 dB μ V/m average, respectively. The resulting margin is -17.67 dB.

TEST NUMBER - 354-05

NOTES AND COMMENTS

(Special conditions unique to this test)

None.