

TÜV Rheinland Product Safety GmbH · Am Grauen Stein · D - 51105 Köln · Tel.: +49 221 806-1371 · Fax: +49 221 806-3909
Mail: trps-certification@de.tuv.com · Web: www.tuv.com

Prüfbericht - Nr.: 16001812 001
Test Report No.:

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TEST SUMMARY

5.1 SPURIOUS CONDUCTED EMISSION MEASUREMENTS AT ANTENNA TERMINALS PART 2.1051

RESULT: *n.a.*

5.2 POWER OUTPUT MEASUREMENT FOR FCC PART 74 PER SECTION 74.861(E)(1)

RESULT: *ok*

5.3 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT FOR FCC PART 74 PER SECTION 74.861(E)(6)(III)

RESULT: *ok*

5.4 MODULATION CHARACTERISTICS MEASUREMENT

RESULT: *ok*

5.5 Occupied Bandwidth for FCC Part 74 Per Section 74.861(e)(3), 74.861(e)(5) and 74.861(e)(6)

RESULT: *ok*

5.6 Frequency tolerance for FCC Part 74 Per Section 74.861(e)(4)

RESULT: *ok*

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

Shenzhen SMQ

Shenzhen Bureau of Quality Technical Supervision
Shenzhen Academy of Metrology and Quality Inspection
Bldg, of Shenzhen Academy of Metrology and Quality Inspection
Longzhu Road, Nanshan, Shenzhen,
P.R. China

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Antenna	Chase	CBL6112B	2591	29.01.2005
Horn Antenna	Rohde & Schwarz	HF906	100014	29.01.2005
3m Semi-anechoic chamber	Albatross Projects	9X6X6	----	29.01.2005
EMI Test Receiver	Rohde & Schwarz	ESI26	838786/013	29.01.2005
Communications Test Set	Rohde & Schwarz	CMU200	1100.0008.02	29.01.2005
Communications Test Set	HP	HP8920A	3438A05187	29.01.2005
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	29.01.2005
AMN	Rohde & Schwarz	ESH3-Z5	100002	29.01.2005
Audio Analyzer	Bkue&Kjar	4191	2281025	12.09.2004
Modulate meter	JUNG JIN	JMM-2200	199810154	02.09.2004
Signal Generator	Agilent	E4420B	US40050973	02.09.2004

2.3 Trace ability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

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2.5 Measurement Uncertainty

The estimated combined standard uncertainty for conducted emissions measurements is ± 3 dB.
The estimated combined standard uncertainty for radiated emissions measurements is ± 3 dB.

2.6 Location of original data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangzhou) file for certification follow-up purposes.

2.7 Status of facility used for testing

Shenzhen Bureau of Quality Technical Supervision, Shenzhen Academy of Metrology and Quality Inspection, Bldg. of Shenzhen Academy of Metrology and Quality Inspection, Longzhu Road, Nanshan, Shenzhen, P.R.China is listed on the US Federal Communications Commission list of facilities approved to perform measurements

3 General Product Information

Brief description of the test sample:

The submitted sample is wireless microphone, which is a transmitter and operates in the frequency range of 470.05 to 510.05 MHz.

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3.1 Product Function and Intended Use

For details, refer to technical document and the user manual.

3.2 Ratings and System Details

Frequency range	:	470-510MHz
RF output power	:	0.035W
Type of antenna	:	Integral antenna
FCC ID:		RW2UH3
Power supply	:	DC 2.4V ("AA" type 1.2V NiCd battery 2x)
Frequency Response	:	30Hz-15kHz
Frequency Stability	:	0.005%
Emission Designator	:	122KF3E
Ports	:	None
Protection Class	:	III

Refer to the technical document for further information.

3.3 Independent Operation Modes

The basic operation modes are:

Transmitting and standby

For further information refer to User Manual

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3.4 Submitted Documents

Block Diagram
Circuit Diagram
FCC label
User Manual
Photo document

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Refer to Test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

None

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the technical document. No additional measures were employed to achieve compliance.

4.5 Test set-up

Diagram 1 of Measurement Equipment Configuration for Testing Conducted Emission

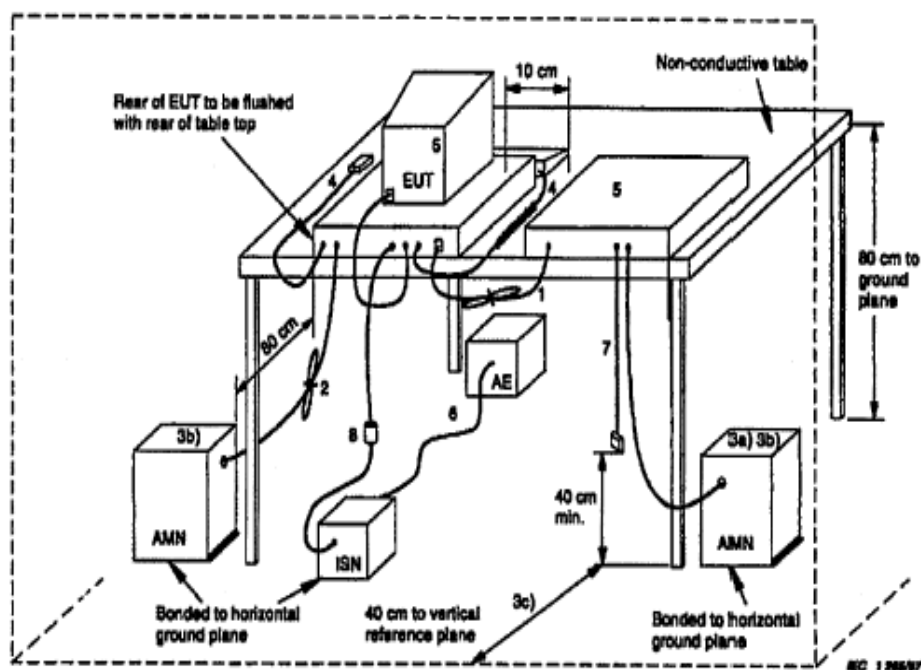
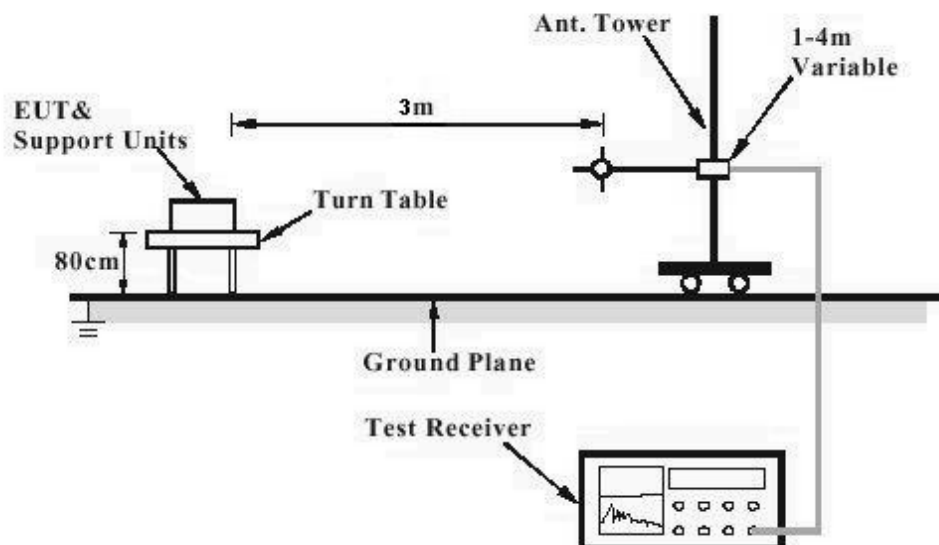


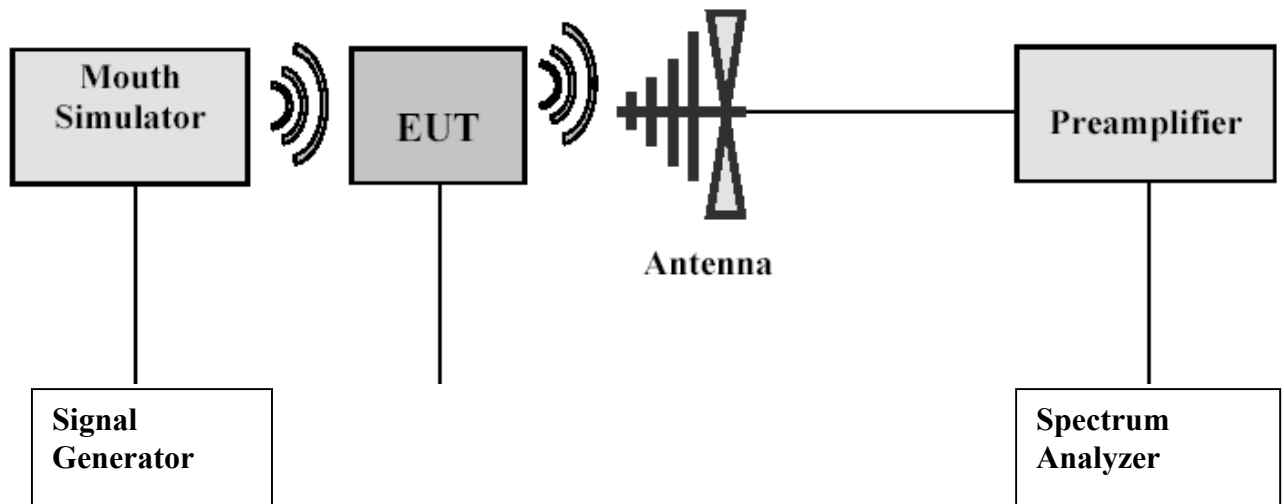
Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission



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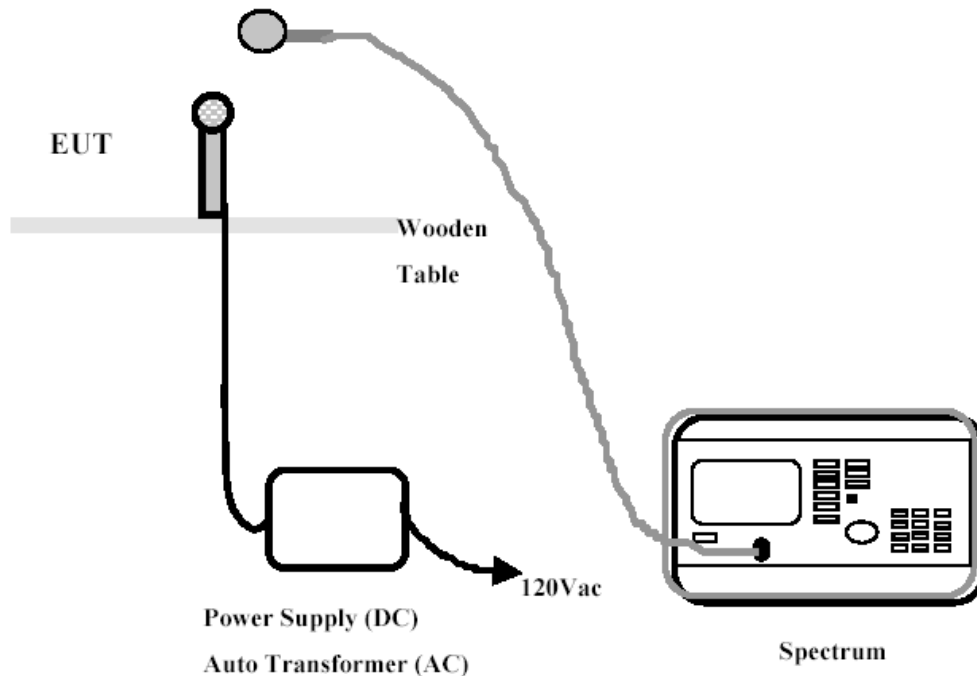
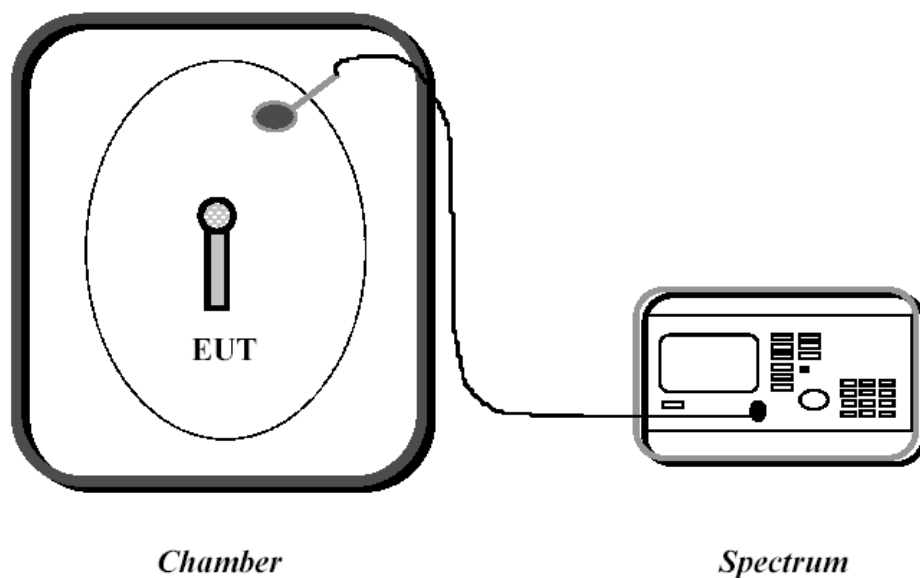
Diagram 3 of Measurement Equipment Configuration for Testing Modulation Characteristics measurement



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Diagram 4 of Measurement Equipment Configuration for Testing Frequency Tolerance



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5 Test Results EMISSION

5.1 Spurious Conducted Emission Measurements at Antenna Terminals Part 2.1051

RESULT:

n.a.

Date of testing	:	---
Test specification	:	FCC Part 2.1051
Deviations from Standard Test procedures	:	None
Test procedure	:	n.a.
Kind of test site	:	Shielded room

As the EUT has not detachable antenna, this test item is not applied.

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5.2 Power output measurement for FCC part 74 Per Section 74.861(e)(1)

RESULT:

ok

Date of testing : 13.04.2004
Test specification : FCC Part 2 Per Section 2.1046(a)
Limits : FCC Part 74 Per Section 74.861(e)(1)
Deviations from Standard Test procedures : None
Test procedure : Procedure specified in ANSI C63.4 were followed
Kind of test site : 3m Semi-anechoic chamber
Operation mode : Transmitting (unmodulated)
Temperature : 22°C
Humidity : 65%

Table 2: test result for power output

Test conditions	Fundamental Frequency					
	Bottom		Middle		Top	
	470.29		490.29		509.84	
	dBm	mW	dBm	mW	dBm	mW
T _{nom} (25°C)	-2.61	0.548	-2.78	0.527	-2.07	0.62
Limit	23.98	250	23.98	250	23.98	250

**Remark: Test was performed with unmodulated signal;
Polarization of the measurement for the larger power level: Vertical**

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5.3 Field Strength of Spurious Radiation Measurement for FCC Part 74 Per Section 74.861(e)(6)(iii)

RESULT:

ok

Date of testing	:	13.04.2004
Test specification	:	FCC Part 2 Per Section 2.1053(a) and 2.1057
Limits	:	FCC Part 74 Per Section 74.861(e)(6)(iii)
Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4 were followed
Kind of test site	:	3m Semi-anechoic chamber
Operation mode	:	Transmitting (modulated)
Temperature	:	22°C
Humidity	:	65%

To determine the Limit for Spurious Emissions the following method was used:

Maximum output power in Watt: **0.00062W** (see **table 2**)

The emission must be reduced by:

$$43+10*\text{Log}(0.00062)=\mathbf{10.92\ dB}$$

Therefore, the Limit would equals:

$$10*\text{Log}(0.62\text{mW}) - 10.92\text{dB} = \mathbf{-13\ dBmW\ (Spurious\ emission\ limit)}$$

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Table 3: Spurious Emission: EUT operated on Bottom frequency (470.29 MHz)

Frequency [MHz]	Level [dBmW]	Polarity (V/H)	Limit [dBmW]
314.178	-69.24	L	-13
626.804	-62.18	L	-13
220.391	-76.23	V	-13
626.804	-42.44	V	-13
785.070	-62.40	V	-13

Disturbances other than those mentioned are small or not detectable.

Table 4: Spurious Emission: EUT operated on Middle frequency (490.29 MHz)

Frequency [MHz]	Level [dBmW]	Polarity (V/H)	Limit [dBmW]
327.856	-65.21	L	-13
407.966	-67.65	L	-13
327.856	-47.77	V	-13
407.966	-47.23	V	-13

Disturbances other than those mentioned are small or not detectable.

Table 5: Spurious Emission: EUT operated on Top frequency (509.84 MHz)

Frequency [MHz]	Level [dBmW]	Polarity (H/V)	Limit [dBmW]
339.579	-65.20	H	-13
679.559	-67.54	H	-13
339.579	-48.53	V	-13
679.559	-50.67	V	-13

Disturbances other than those mentioned are small or not detectable.

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5.4 Modulation Characteristics measurement

RESULT:

ok

Date of testing	:	09.06.2004
Test specification	:	FCC Part 2 Per Section 2.1047(a) and (b)
Limits	:	FCC Part 2 Per Section 2.1047(a) and (b)
Deviations from Standard Test procedures	:	None
Test procedure	:	Procedure specified in ANSI C63.4 were followed
Operation mode	:	Transmitting
Temperature	:	22°C
Humidity	:	65%

Refer to appendix for measurement.

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5.5 Occupied Bandwidth for FCC Part 74 Per Section 74.861(e)(3), 74.861(e)(5) and 74.861(e)(6)

RESULT:

ok

Date of testing : 09.06.2004
Test specification : FCC Part 2 Per Section 2.1049(c)1
Limits : FCC Part 74 Per Section 74.861(e)(3), 74.861(e)(5) and 74.861(e)(6)
Deviations from Standard Test procedures : None
Test procedure : Procedure specified in ANSI C63.4 were followed
Operation mode : Transmitting (modulated)
Temperature : 22°C
Humidity : 65%

Table 6: maximum deviation

Reading:	46kHz
Limit:	± 75kHz

Table 7: operation bandwidth (Bn)

Parameter:	M	D
Reading	15kHz	46kHz
Bn:	122kHz	
Limit:	200kHz	
Emission Designator:	122KF3E	
Bn=2M+2D*K		
Bn: operation bandwidth		
M: Max. Modulation Frequency		
D: Peak Frequency Deviation		
K=1		

Refer for appendix for measurements.

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5.6 Frequency tolerance for FCC Part 74 Per Section 74.861(e)(4)

RESULT:

ok

Date of testing : 09.06.2004
Test specification : FCC Part 2 Per Section 2.1055
Limits : FCC Part 74 Per Section 74.861(e)(4)
Deviations from Standard Test procedures : None
Test procedure : Procedure specified in ANSI C63.4 were followed
Operation mode : Transmitting (unmodulated)
Temperature : -30°C to 50°C
Humidity : 65%

Table 8: the measurement of Frequency tolerance (temperature)

Ambient Frequency: 490.29792 MHz

Test condition	Frequency(MHz)
-30°C	490.31102
-20°C	490.31108
-10°C	490.29791
0°C	490.29790
10°C	490.29792
20°C	490.30300
30°C	490.29820
40°C	490.29810
50°C	490.29792
Frequency Error:	0.01316
Frequency Error rate:	0.00268%
Frequency Tolerance Limit:	0.005%

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Table 9: the measurement of Frequency tolerance (battery voltage)

Ambient Frequency: 490.29792 MHz

Test condition	Frequency(MHz)
2.4V	490.29787
2.3V	490.29791
2.2V	490.29791
2.1V	490.29790
2.0V	490.29792
1.9V	490.29811
1.8V	490.29821
1.7V	490.29835
1.6V	490.29462
Frequency Error:	0.00325
Frequency Error rate:	0.00066%
Frequency Tolerance Limit:	0.005%

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6 Photographs of the Test Set-Up

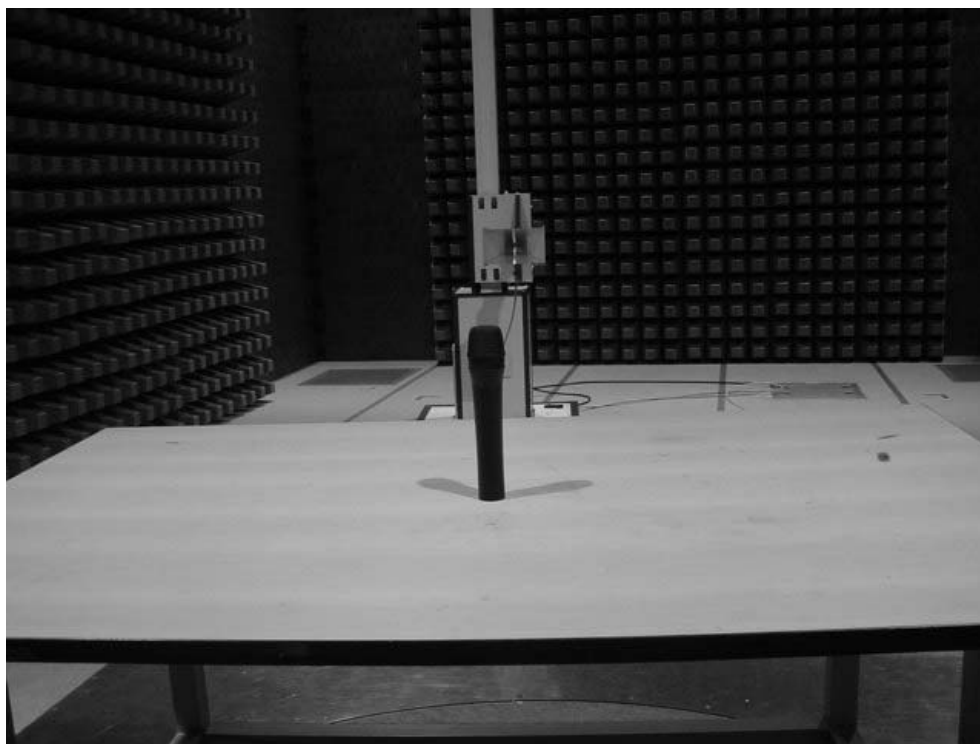
Photograph 1: Set-up for Radiation Measurement Below 1GHz



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Photograph 2: Set-up for Radiation Measurement above 1GHz



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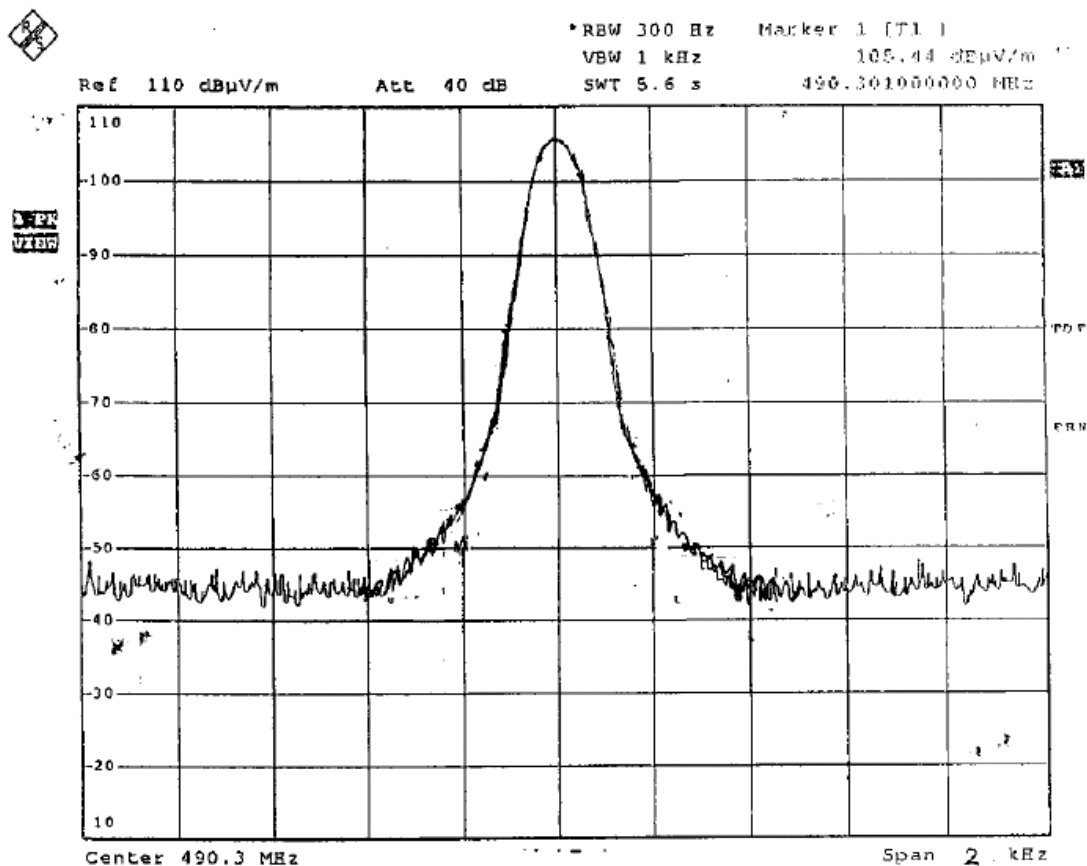
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Occupied Bandwidth:



Date: 1.JUN.2004 03:32:17

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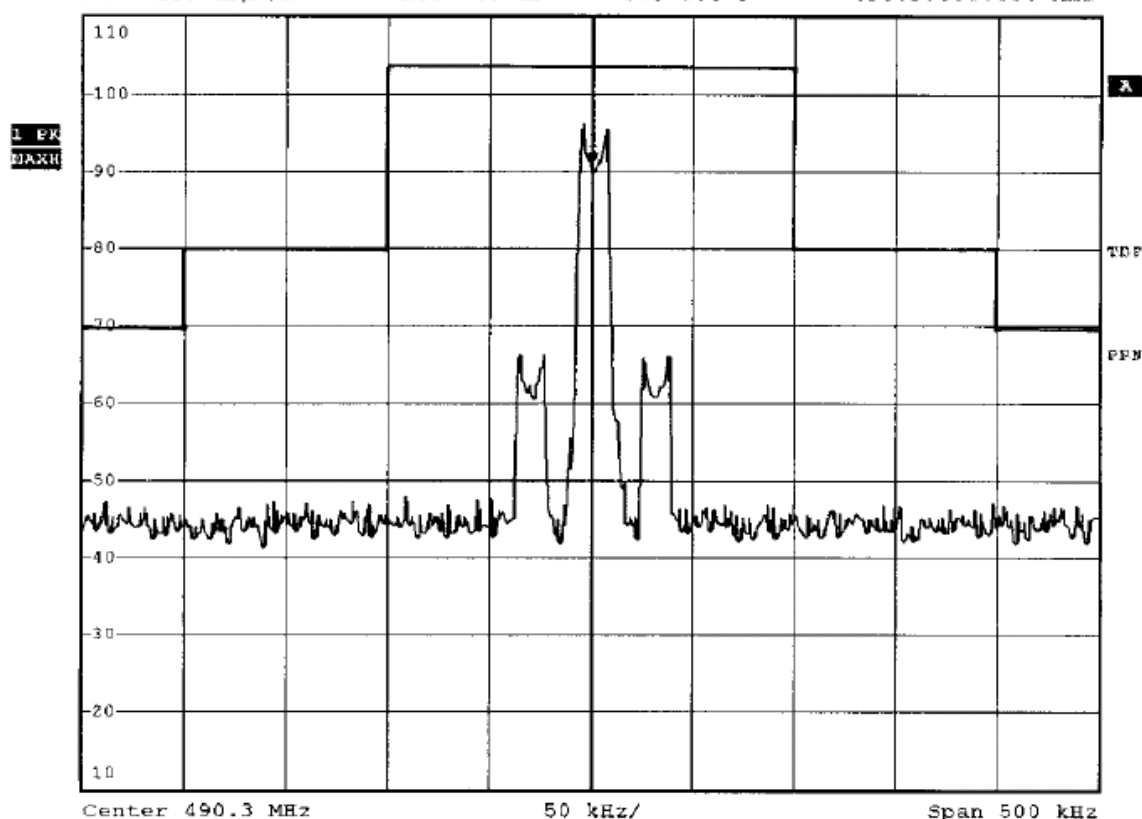
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UH-3 Input Level $-10\text{dBV} = 16\text{dB} > 50\%$ Modulation

300Hz



*RBW 300 Hz Marker 1 [T1]
VBW 1 kHz 99.90 dBµV/m
Ref 110 dBµV/m Att 40 dB SWT 5.6 s 490.300000000 MHz



Date: 1.JUN.2004 03:18:04

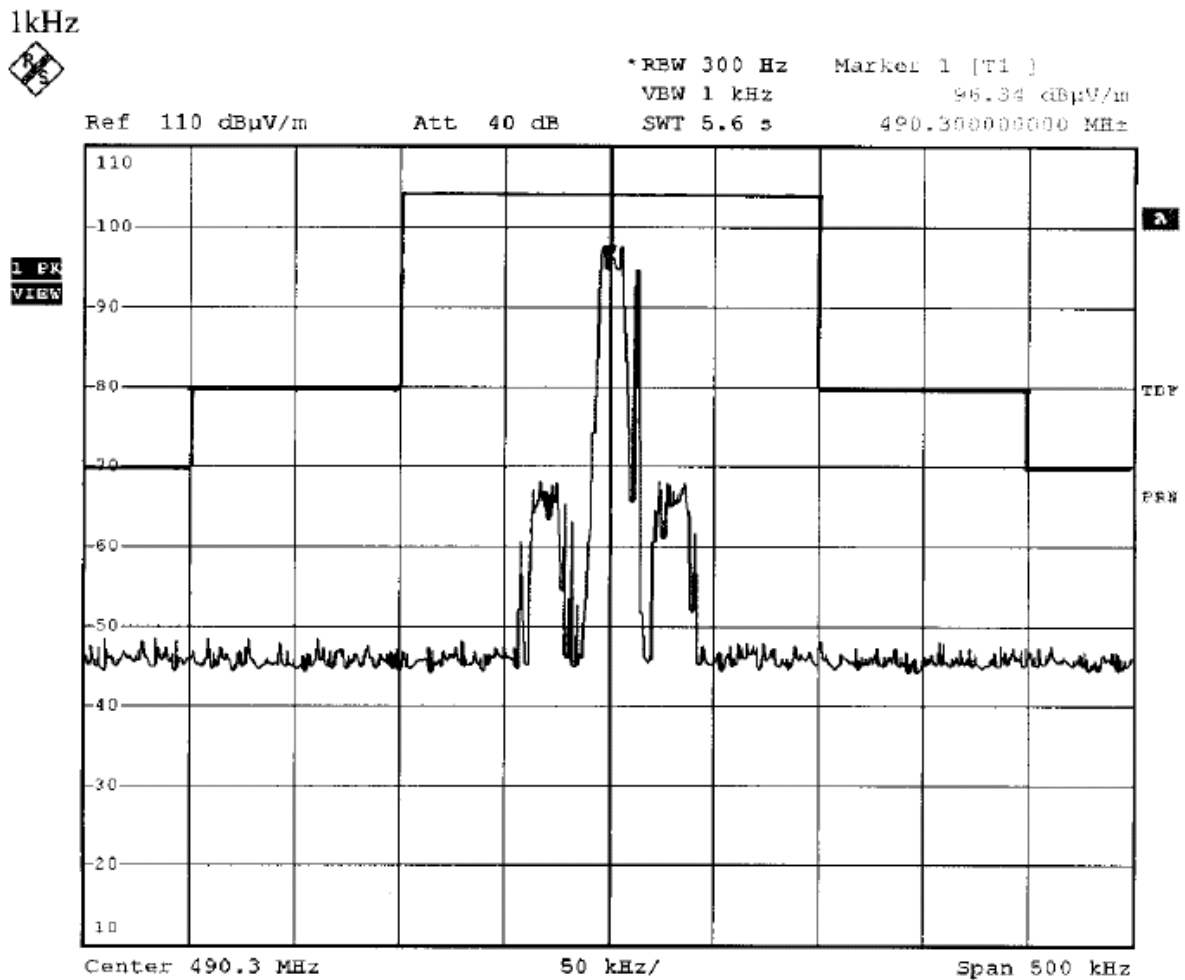
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UH-3 Input Level $-10\text{dBV} = 16\text{dB} > 50\%$ Modulation



Date: 1.JUN.2004 03:26:11

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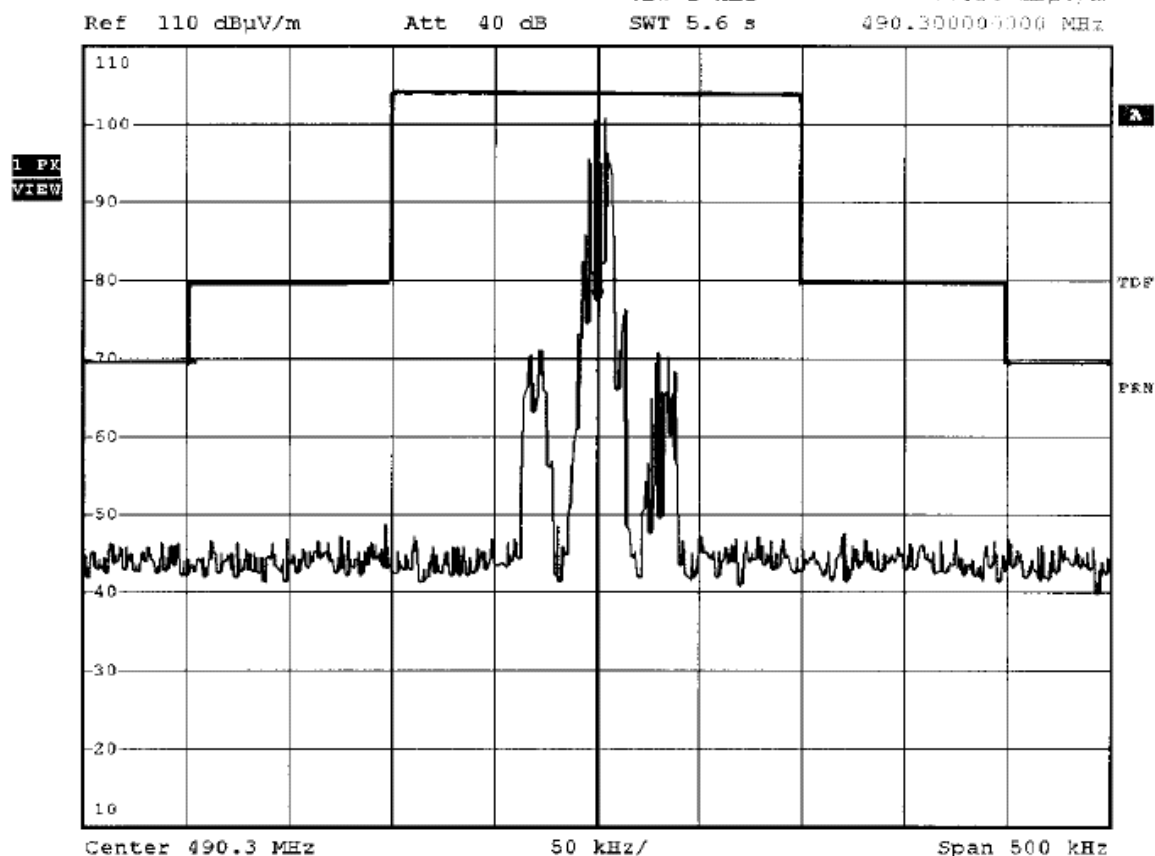
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UH-3 Input Level -10dBV = 16dB >50% Modulation

2.5kHz



*RBW 300 Hz Marker 1 [T1]
VBW 1 kHz 77.50 dBμV/m
SWT 5.6 s 490.300000000 MHz



Date: 1.JUN.2004 03:29:58

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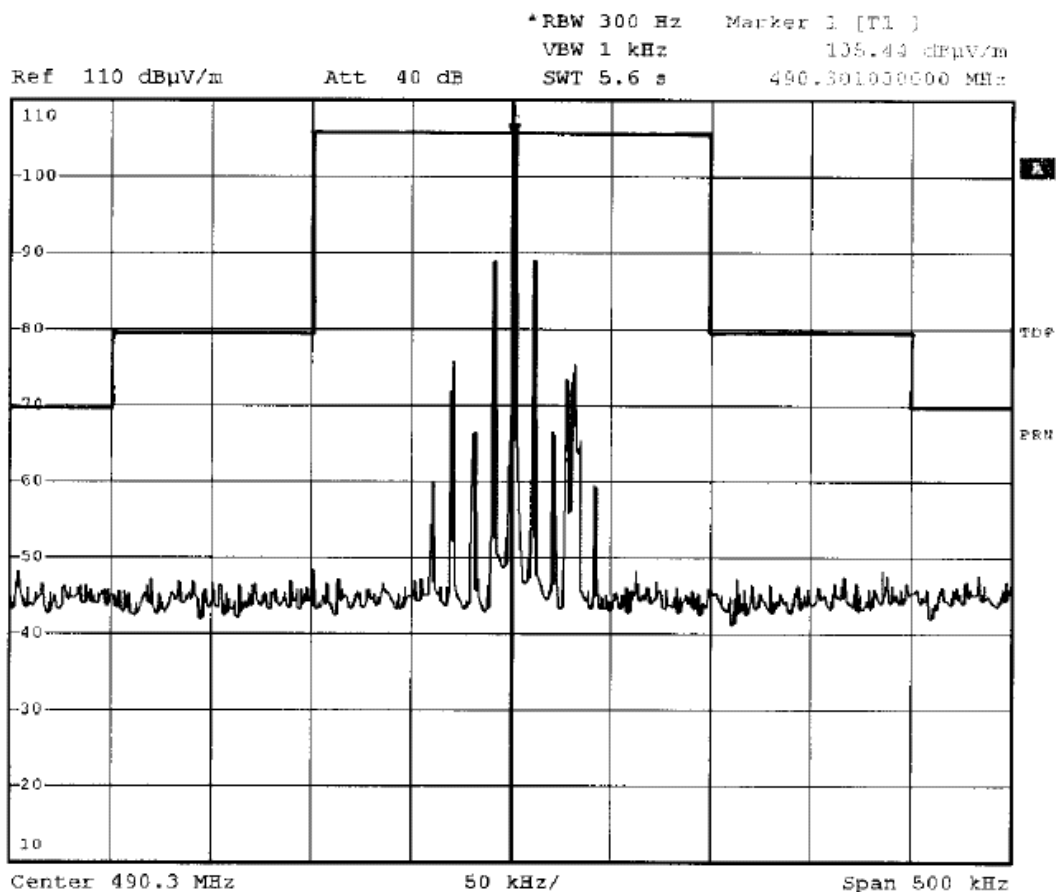
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UH-3 Input Level -10dBV = 16dB >50% Modulation

10kHz



Date: 1.JUN.2004 03:32:17

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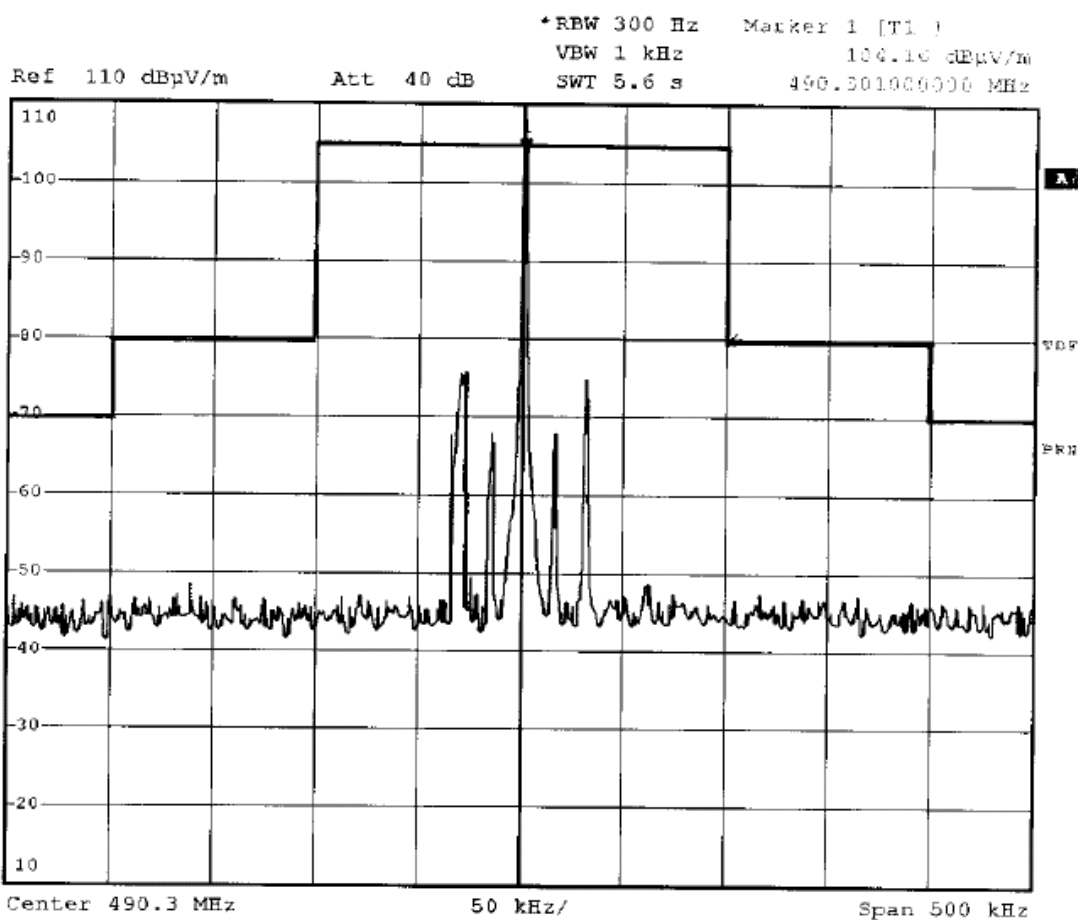
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UH-3 Input Level -10dBV = 16dB >50% Modulation

15kHz



Date: 1.JUN.2004 03:34:27

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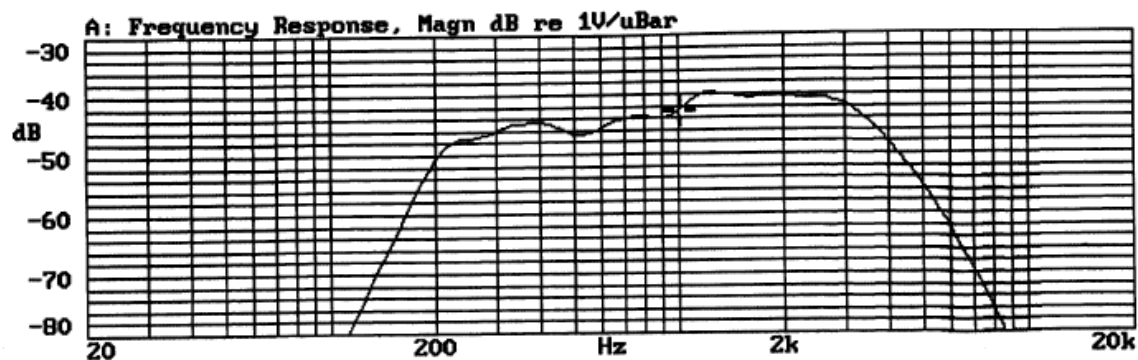
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Modulation Characteristics:

X:1.0000kHz *Y:-42.71dB ZA:Live Curve SSR Fund.



MANUF.		PS: 0° -42.71dB
MODEL		180° dB
SPEC.		
APPROV.		

11-JUN-2004 16:29:44

Mode: MICMEAS



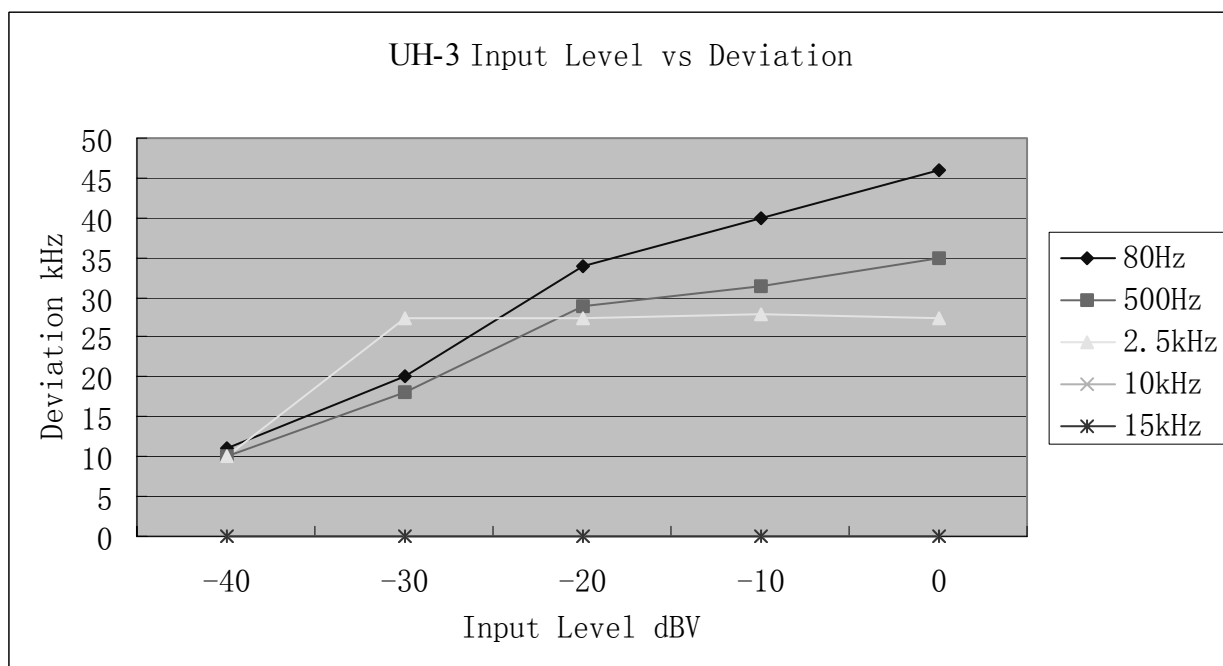
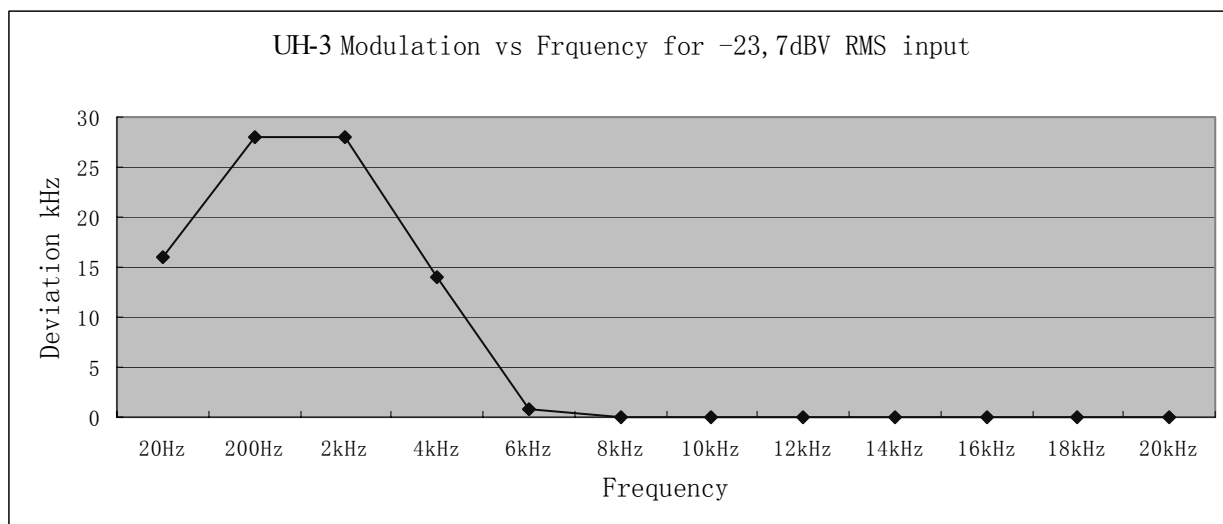
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Modulation Characteristics:



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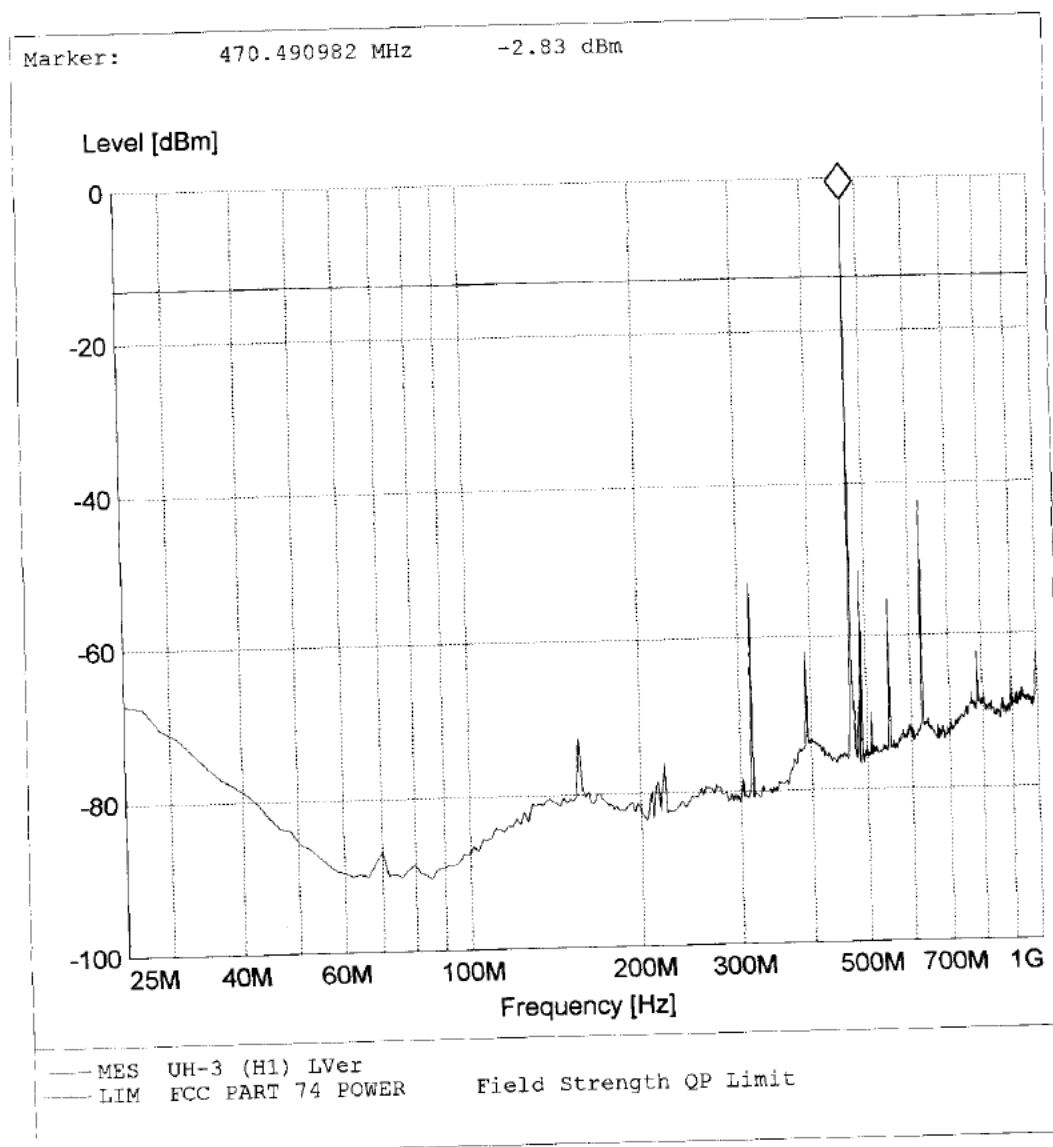
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H1)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: DC 3V

Marker: 470.490982 MHz -2.83 dBm



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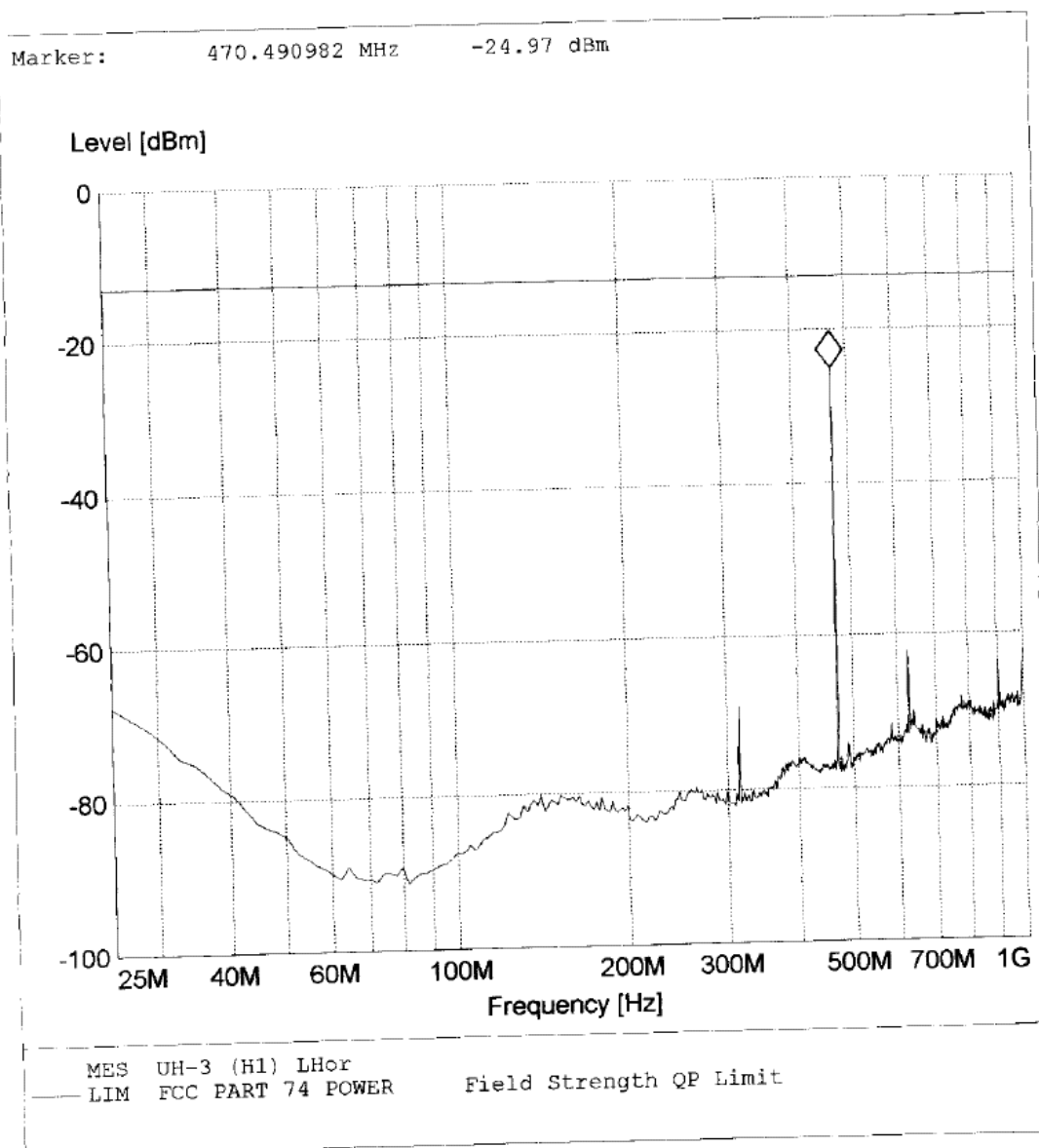
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H1)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V



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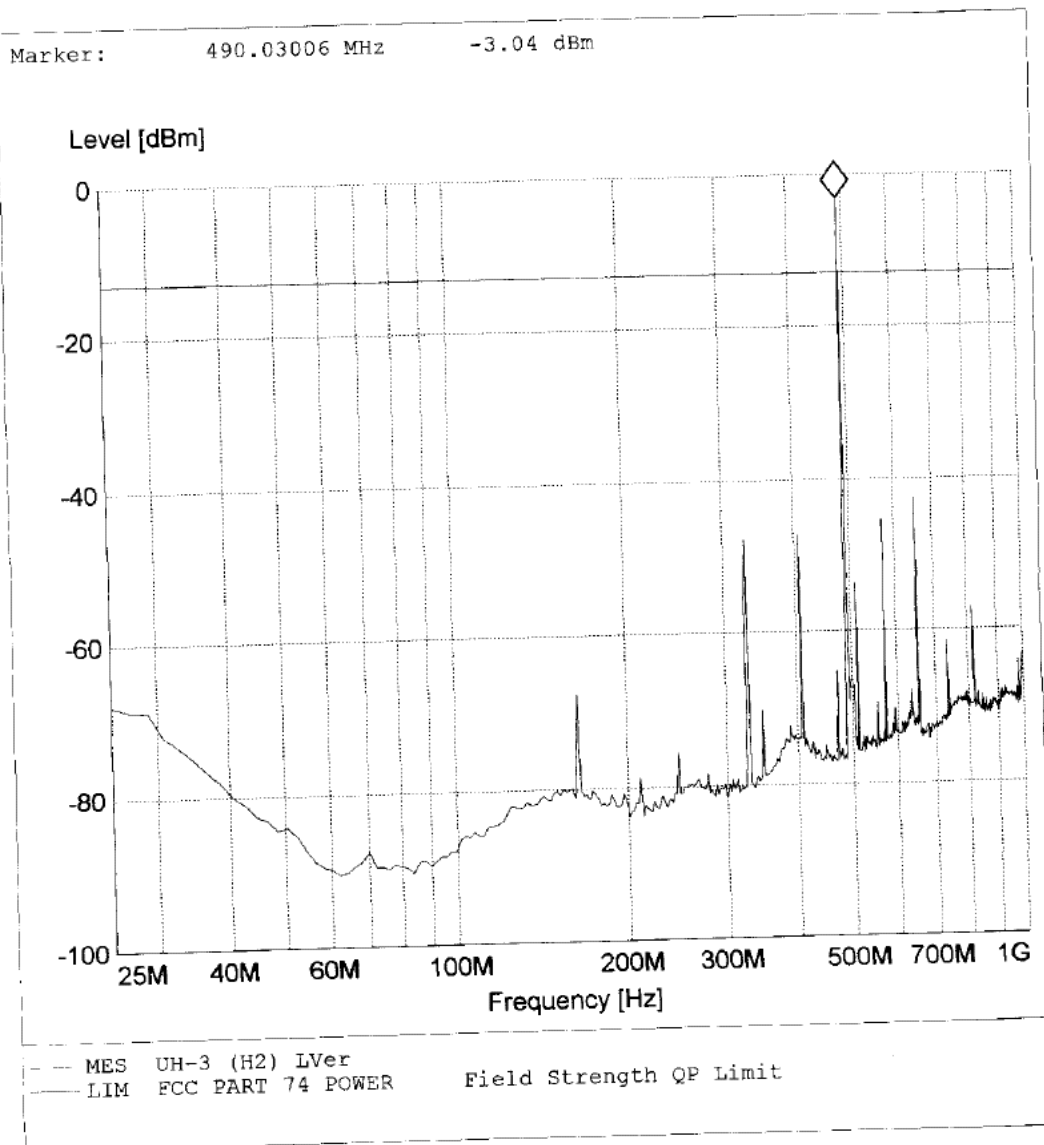
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H2)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: DC 3V



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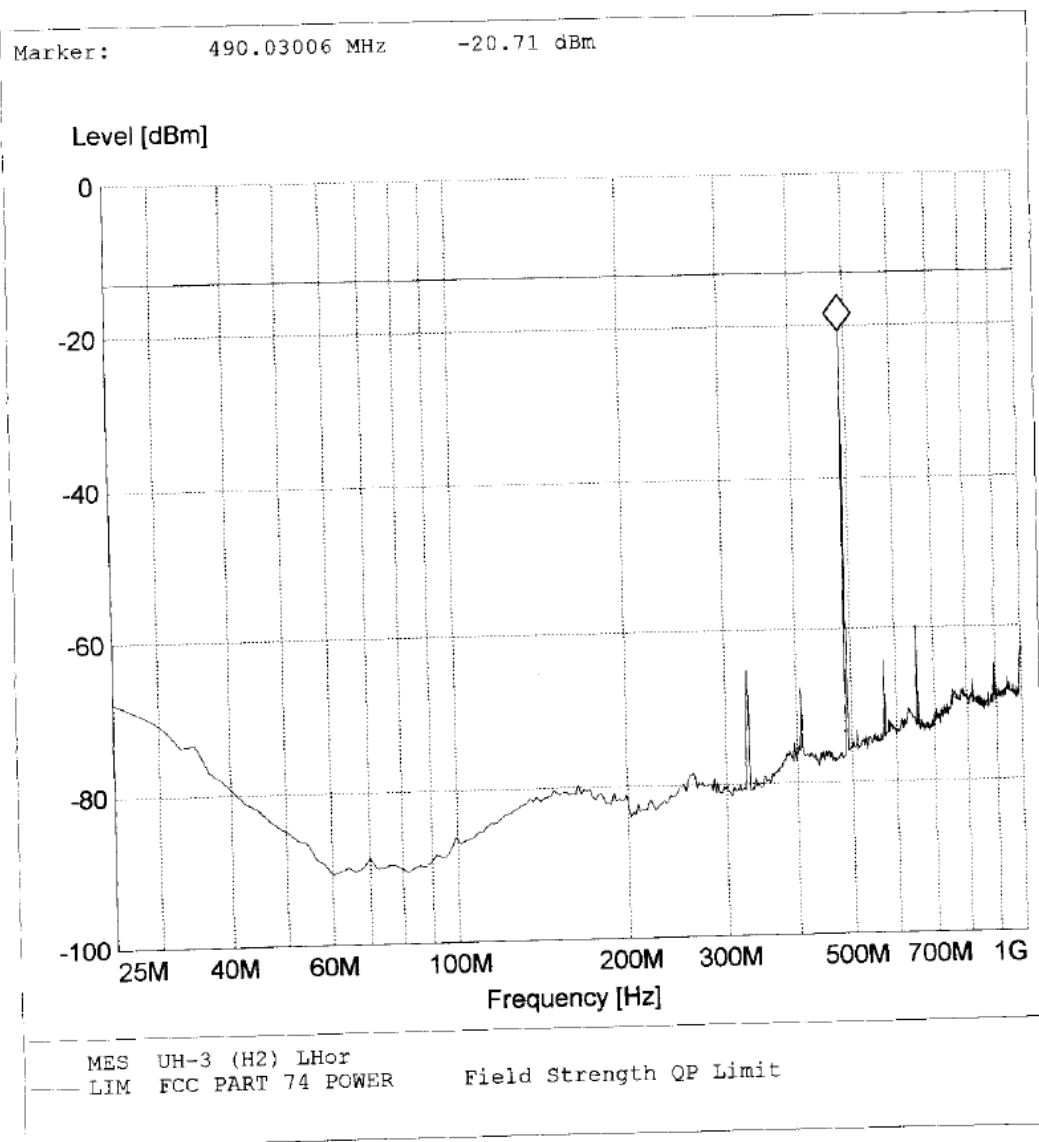
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H2)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V



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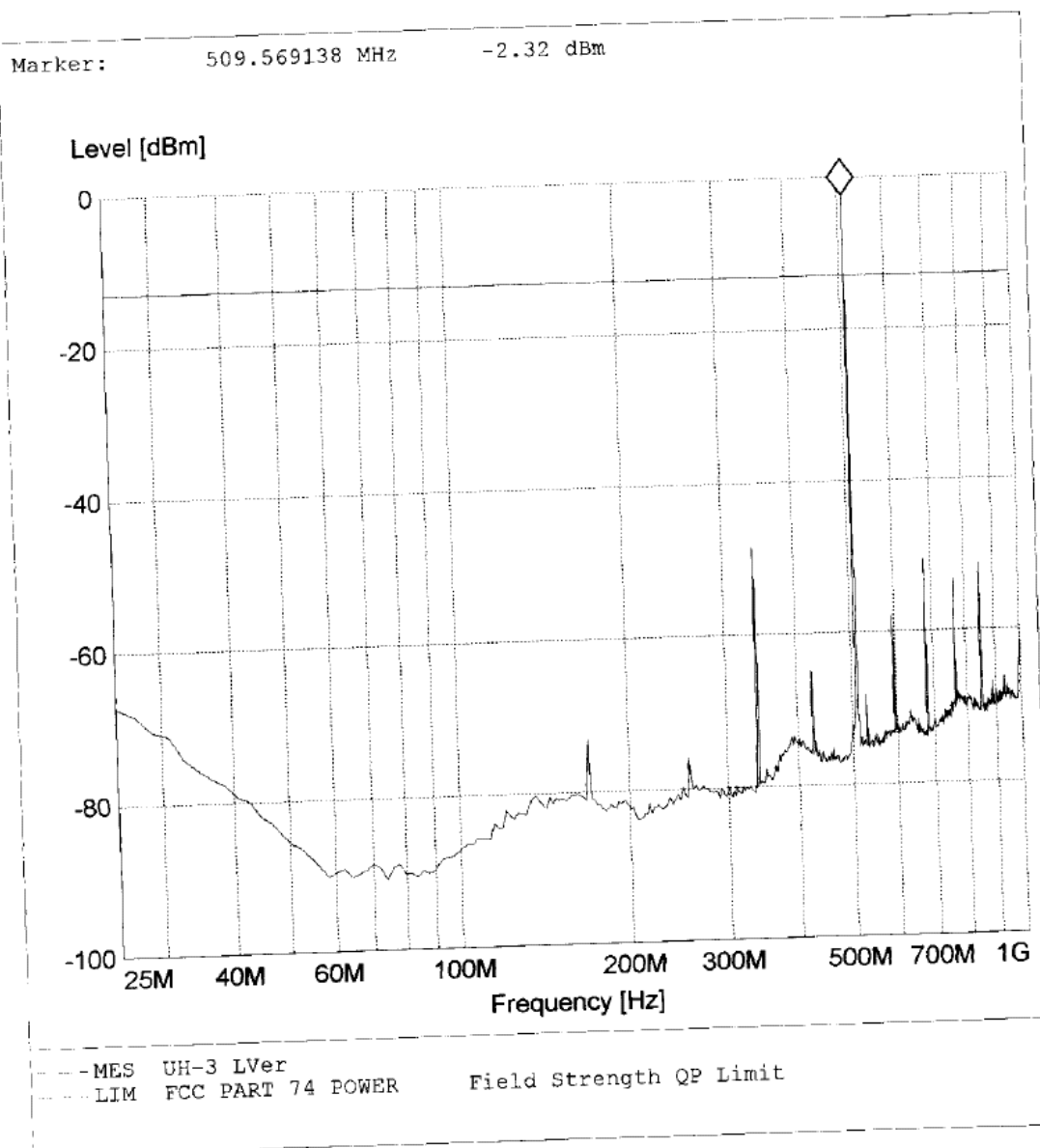
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H3)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: DC 3V



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Test Report No.:

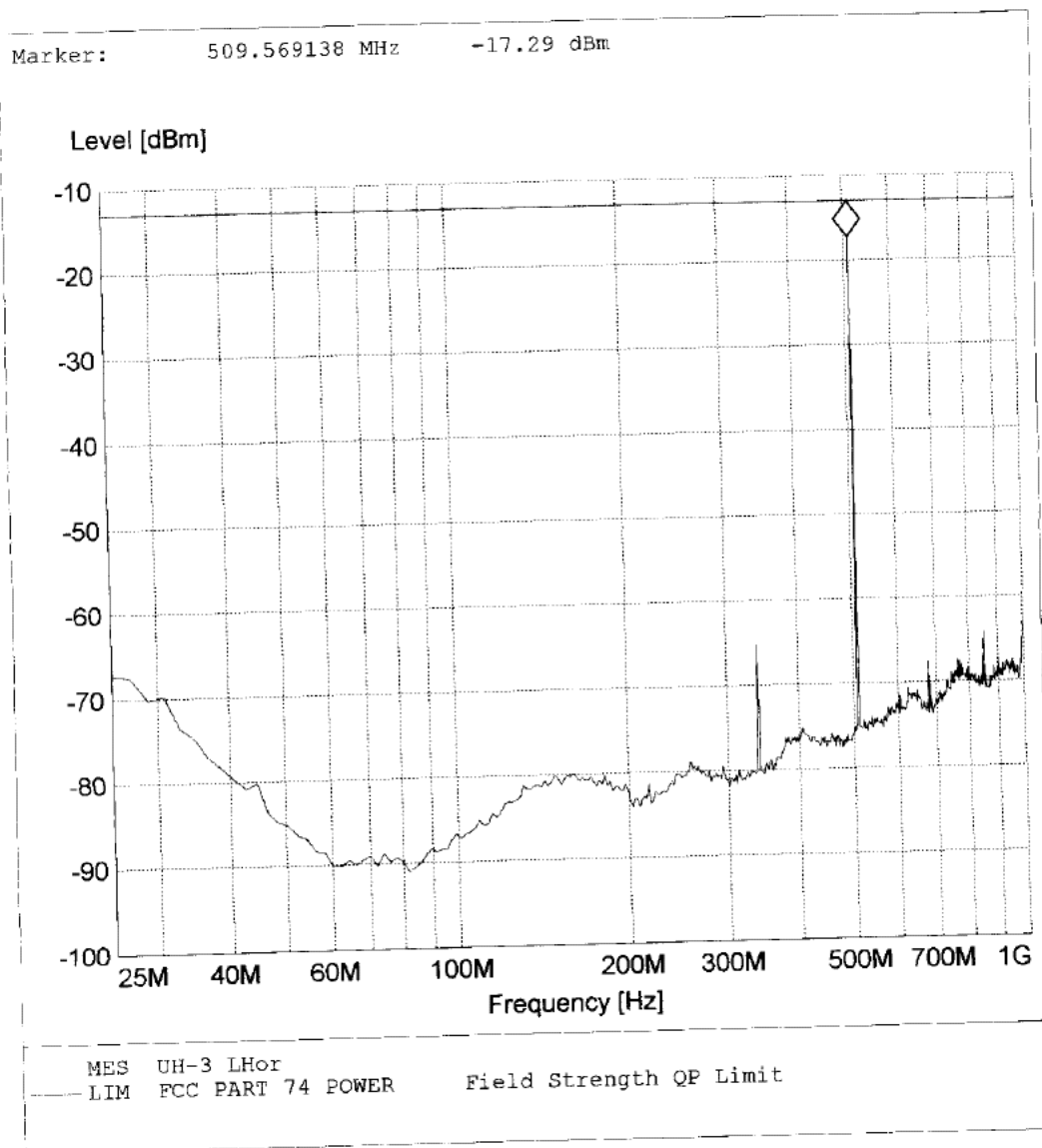
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H3)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V



Prüfbericht - Nr.: 16001812 001

Test Report No.:

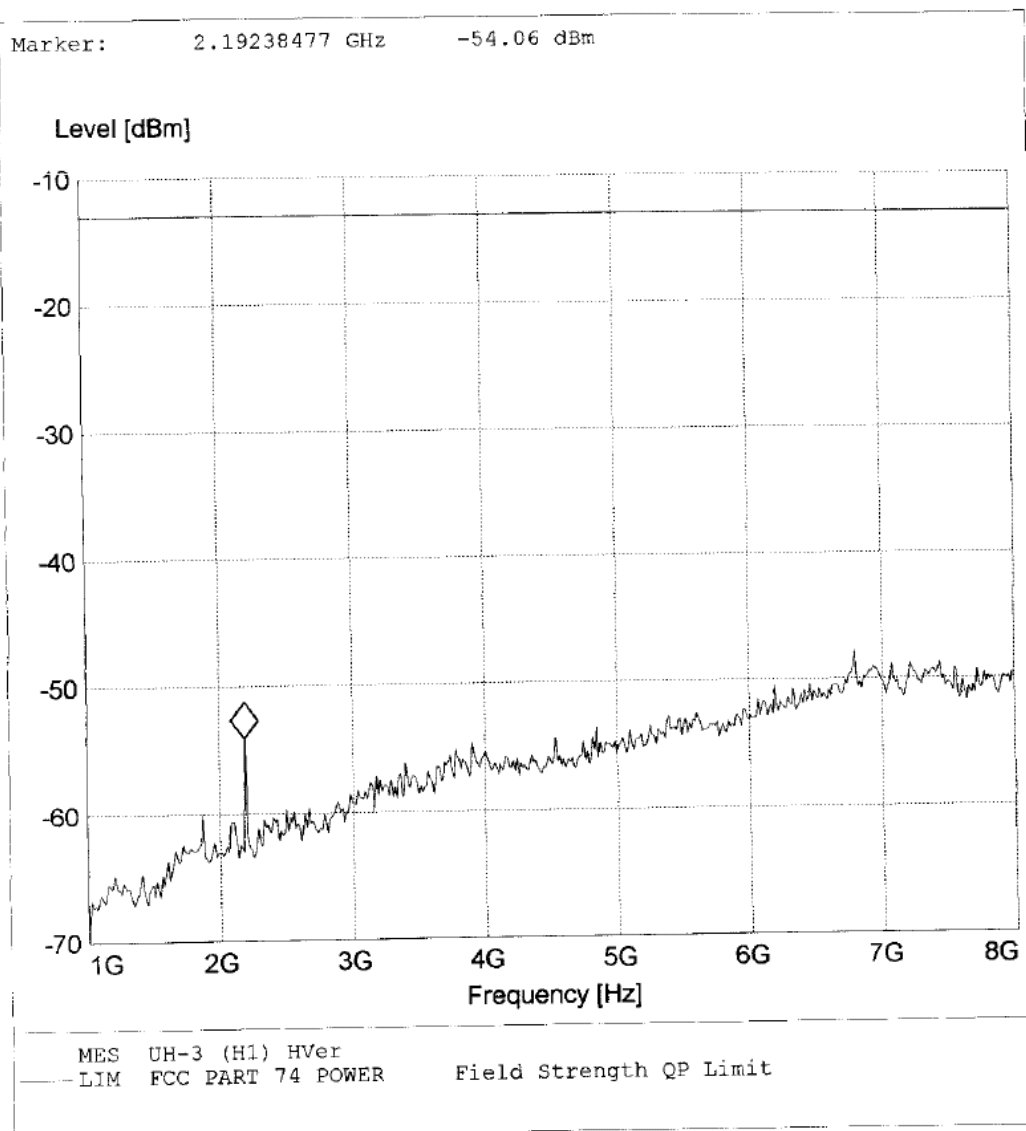
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H1)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: DC 3V



Prüfbericht - Nr.: 16001812 001

Test Report No.:

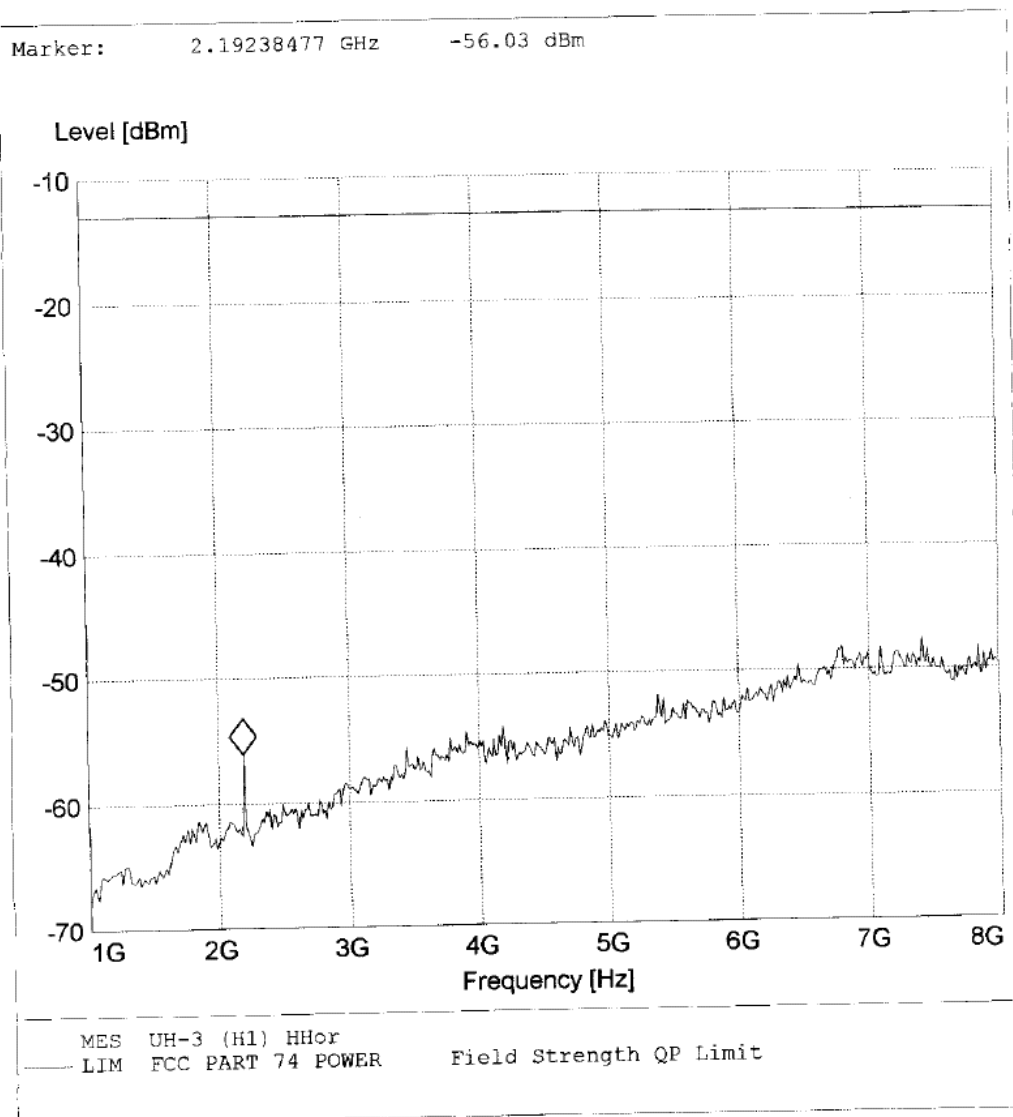
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H1)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V



Prüfbericht - Nr.: 16001812 001

Test Report No.:

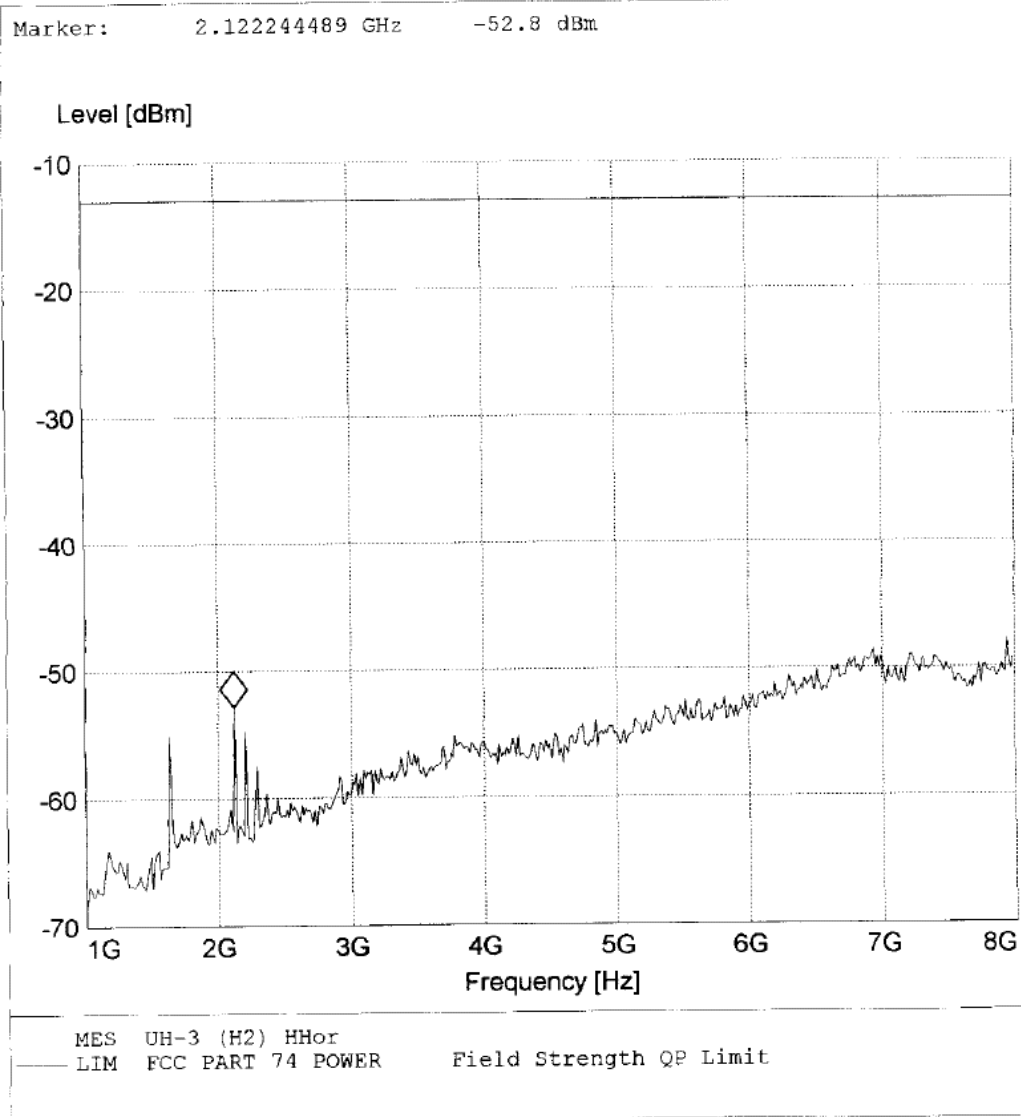
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H2)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V



Prüfbericht - Nr.: 16001812 001

Test Report No.:

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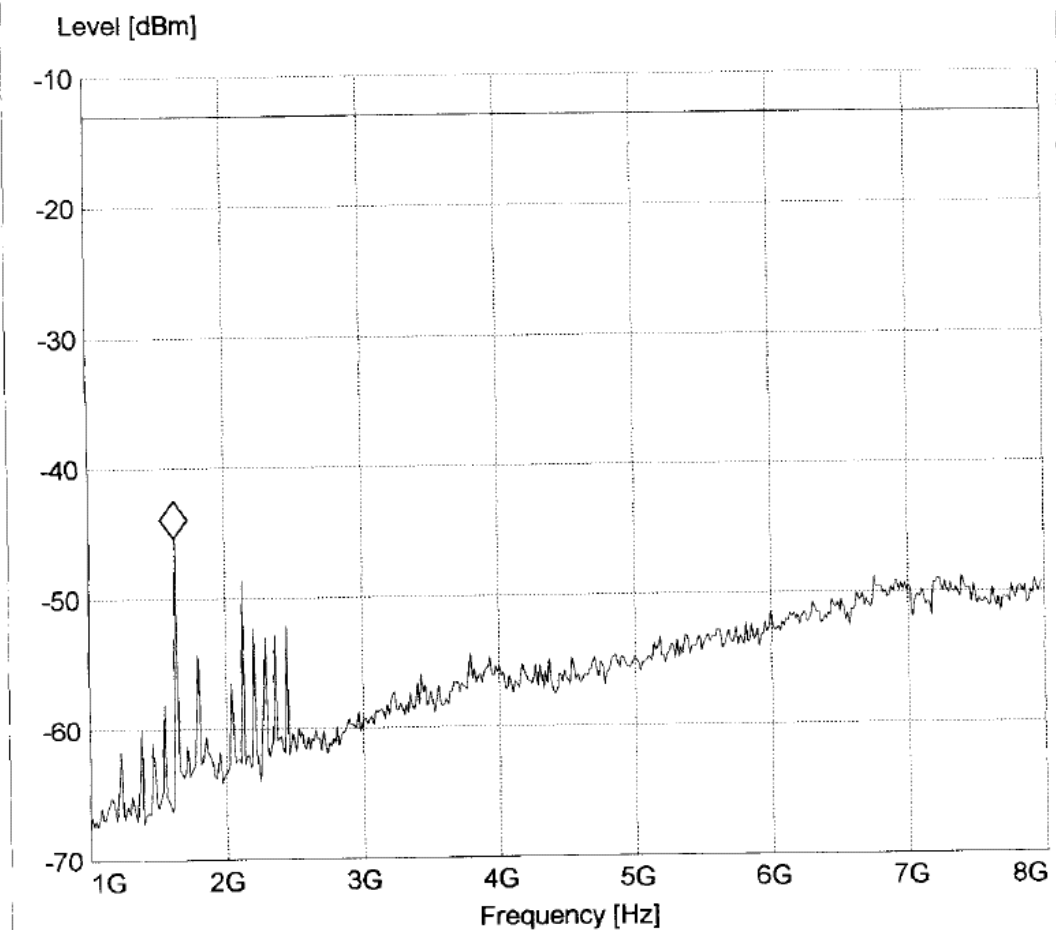
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H2)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: DC 3V

Marker: 1.631262525 GHz -45.34 dBm



MES UH-3 (H2) HVer
— LIM FCC PART 74 POWER Field Strength QP Limit

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Test Report No.:

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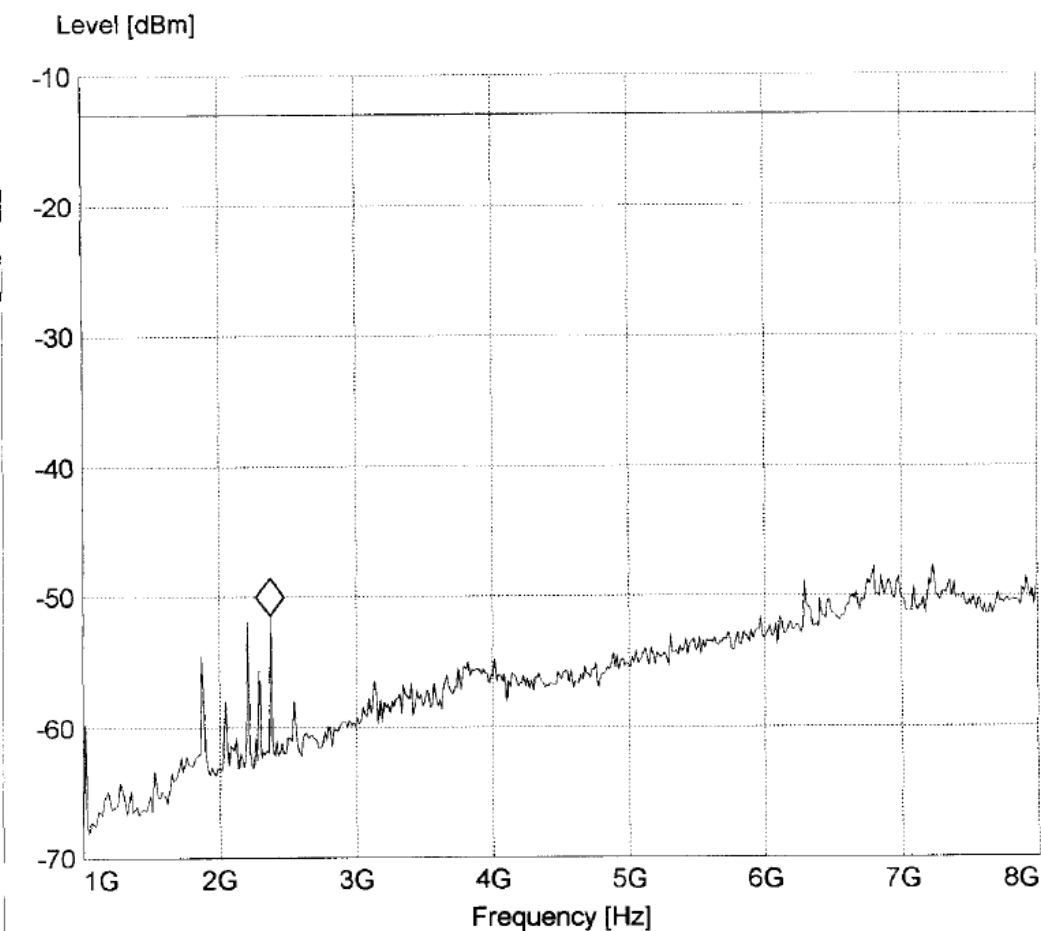
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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H3)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: DC 3V

Marker: 2.374749499 GHz -51.44 dBm



MES UH-3 (H3) HVer
— LIM FCC PART 74 POWER Field Strength QP Limit

Prüfbericht - Nr.: 16001812 001

Test Report No.:

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Radiated Spurious

FCC PART 74

EUT: M/N:UH-3 (H3)
Manufacturer:
Operating Condition: TX
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V

