

Prüfbericht - Nr.: 16003507 001

Seite 1 von 23

Test Report No.:

Page 1 of 23

Auftraggeber: Enping Dingli Acoustics Technological Co., Ltd.
Client: The back of Liuhe Village Pingshi
Enping,Guangdong
P.R.China

Gegenstand der Prüfung: Wireless Microphone
Test item:

Bezeichnung: UB-3 **FCC ID:** RW2UB3
Identification: FCC ID

Wareneingangs-Nr.: 73008575 **Eingangsdatum:** 23.07.2003
Receipt No.: *Date of receipt:*

Prüfört: Shenzhen Bureau of Quality Technical
Testing location: Supervision Shenzhen Academy of Metrology
and Quality Inspection Bldg, of Shenzhen
Academy of Metrology and Quality Inspection,
Longzhu Road, Nanshan, Shenzhen,
P.R. China
Listed test laboratory
according to FCC rules
section 2.948 for
measuring devices
under Parts 74

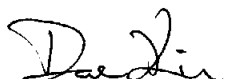
Prüfgrundlage: ANSI C63.4: 2001
Test specification: FCC "Rules and Regulations", Part 74,
Experimental Radio, Auxiliary, Special Broadcast and Other Program
Distributional Services
Subpart H, Low Power Auxiliary Stations
Section 74.861

Prüfergebnis: Der vorstehend beschriebene Prüfgegenstand wurde geprüft und
Test Result: entspricht oben genannter Prüfgrundlage.
The a. m. test item passed.

Prüflaboratorium/ Testing Laboratory: TÜV Rheinland (Guangdong) Ltd
zusammengestellt/ compiled by: *kontrolliert/ checked by:*

30.07.2004 Dave Xie

Datum **Name**
Date *Name*


Unterschrift
Signature

13.08.2004.

Datum
Date

Yuxin Huang

Name
Name


Unterschrift
Signature

Sonstiges/ Other Aspects:

Abkürzungen: ok / P = entspricht Prüfgrundlage
fail / F = entspricht nicht Prüfgrundlage
n.a. / N = nicht anwendbar

Abbreviations: ok / P = passed
fail / F = failed
n.a. / N = not applicable

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 2 von 23
Page 2 of 23

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*

Prüfbericht - Nr.: 16003507 001

Test Report No.:

Seite 3 von 23

Page 3 of 23

Contents

1	GENERAL REMARKS.....	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES.....	5
2.1	TEST FACILITIES	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
2.3	TRACE ABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY.....	7
2.6	LOCATION OF ORIGINAL DATA.....	7
2.7	STATUS OF FACILITY USED FOR TESTING.....	7
3	GENERAL PRODUCT INFORMATION.....	7
3.1	PRODUCT FUNCTION AND INTENDED USE	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	8
3.4	SUBMITTED DOCUMENTS	9
4	TEST SET-UP AND OPERATION MODE	9
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	9
4.2	TEST OPERATION AND TEST SOFTWARE	9
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....	9
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	9
4.5	TEST SET-UP.....	10
5	TEST RESULTS EMISSION	13
5.1	SPURIOUS CONDUCTED EMISSION MEASUREMENTS AT ANTENNA TERMINALS PART 2.1051 13	
5.2	POWER OUTPUT MEASUREMENT FOR FCC PART 74 PER SECTION 74.861(E)(1).....	14
5.3	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT FOR FCC PART 74 PER SECTION 74.861(E)(6)(III)	15
5.4	MODULATION CHARACTERISTICS MEASUREMENT	17
5.5	OCCUPIED BANDWIDTH FOR FCC PART 74 PER SECTION 74.861(E)(3), 74.861(E)(5) AND 74.861(E)(6).....	18

Prüfbericht - Nr.:	16003507 001	Seite 4 von 23
<i>Test Report No.:</i>		<i>Page 4 of 23</i>
5.6	FREQUENCY TOLERANCE FOR FCC PART 74 PER SECTION 74.861(E)(4)	19
6	PHOTOGRAPHS OF THE TEST SET-UP	21
7	LIST OF TABLES.....	23
8	LIST OF PHOTOGRAPHS.....	23

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 5 von 23
Page 5 of 23

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

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 6 von 23
Page 6 of 23

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.

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 7 von 23
Page 7 of 23

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.

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 8 von 23
Page 8 of 23

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:		RW2UB3
Power supply	:	DC 2.4V ("AAA" type 1.2V NiCd battery 2x)
Frequency Response	:	30Hz-15kHz
Frequency Stability	:	0.005%
Emission Designator	:	102KF3E
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

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 9 von 23
Page 9 of 23

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

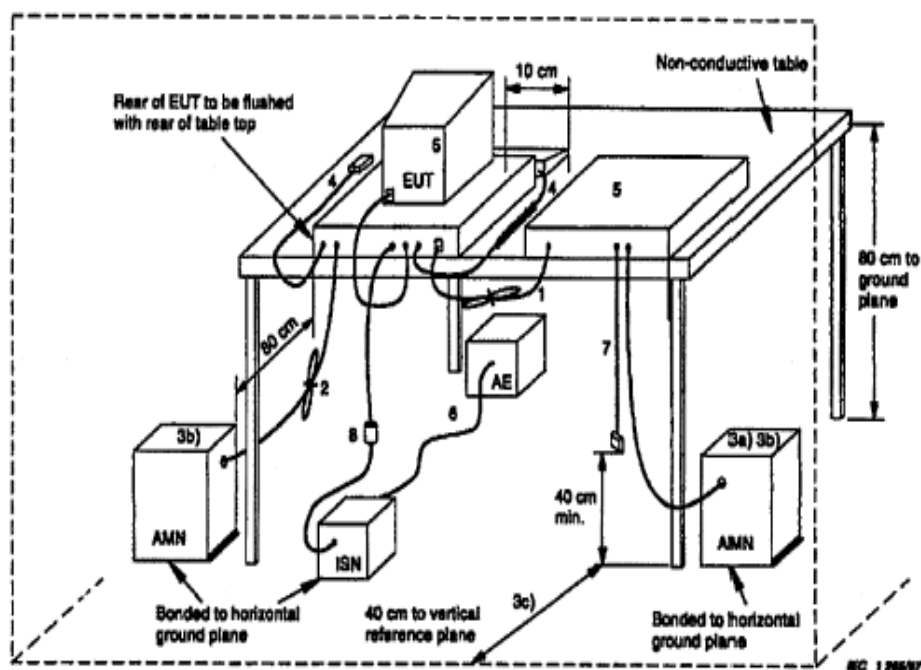
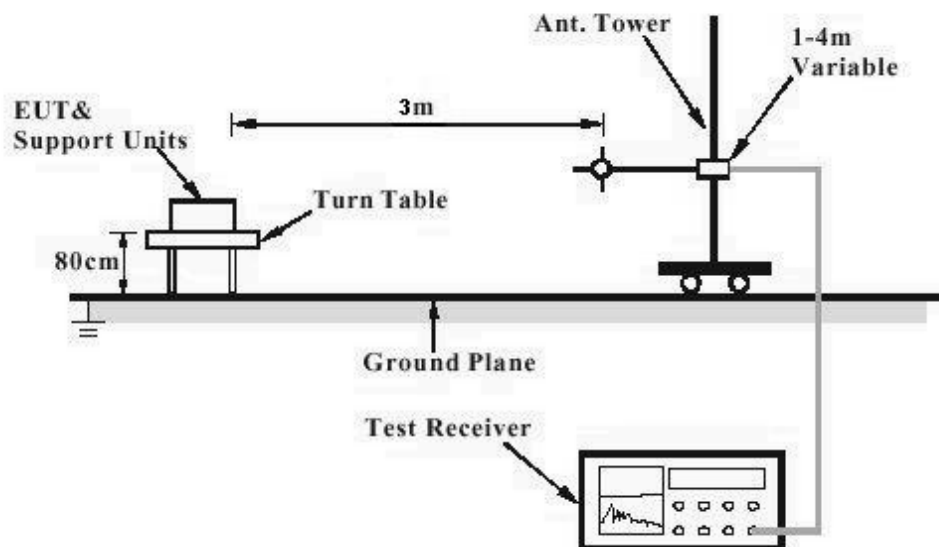


Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission



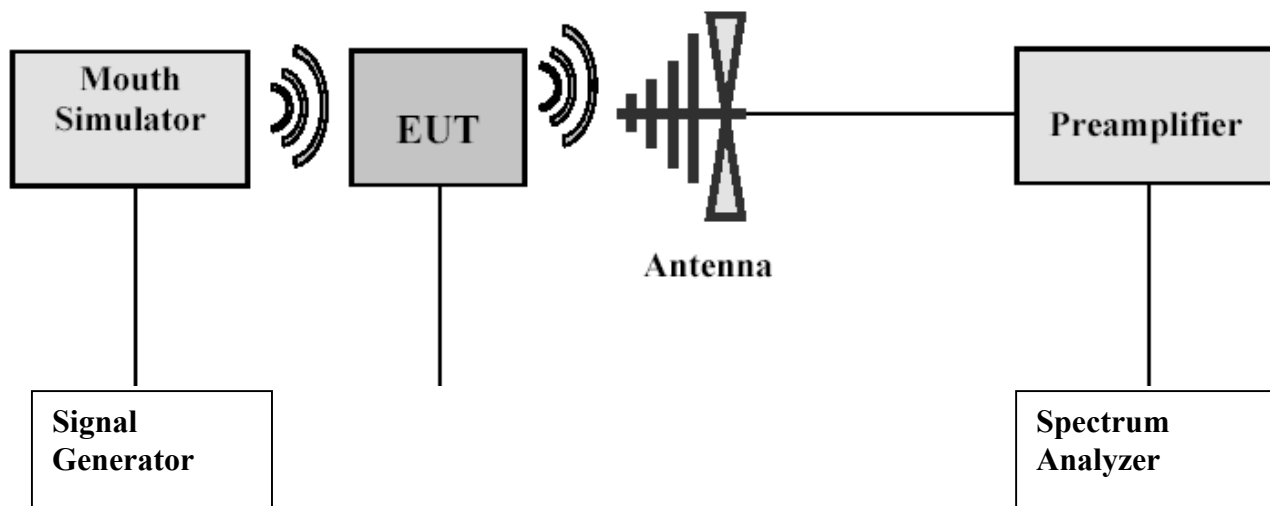
Prüfbericht - Nr.: 16003507 001

Test Report No.:

Seite 11 von 23

Page 11 of 23

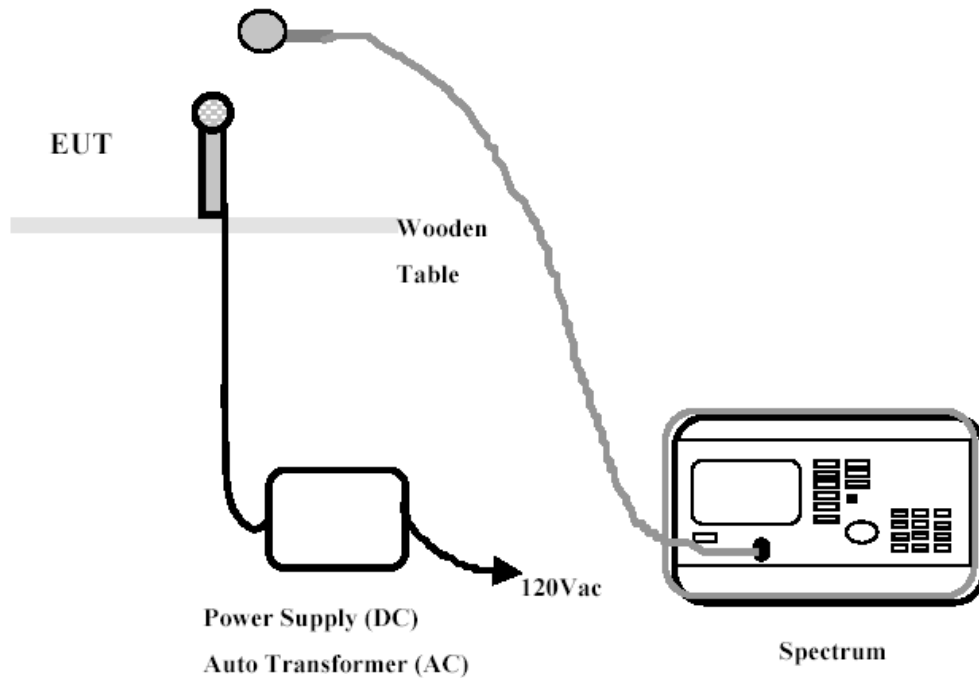
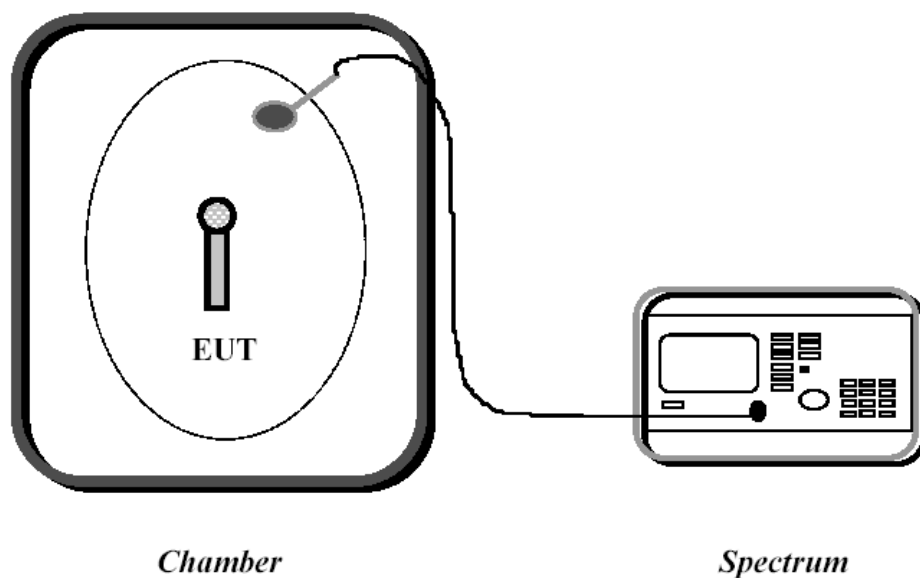
Diagram 3 of Measurement Equipment Configuration for Testing Modulation Characteristics measurement



Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 12 von 23
Page 12 of 23

Diagram 4 of Measurement Equipment Configuration for Testing Frequency Tolerance



Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 13 von 23
Page 13 of 23

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.

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 14 von 23
Page 14 of 23

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)	-2.68	0.540	-2.78	0.527	-2.18	0.605
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

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 15 von 23
Page 15 of 23

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: **0.000605W** (see **table 2**)

The emission must be reduced by:

$$43+10*\text{Log}(0.000605)=\mathbf{10.82\text{ dB}}$$

Therefore, the Limit would equals:

$$10*\text{Log}(0.605\text{mW}) - 10.82\text{dB} = \mathbf{-13\text{ dBmW (Spurious emission limit)}}$$

Prüfbericht - Nr.: 16003507 001

Test Report No.:

Seite 16 von 23

Page 16 of 23

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 Bottom 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 Bottom frequency (509.84 MHz)

Frequency [MHz]	Level [dBmW]	Polarity (H/V)	Limit [dBmW]
679.559	-67.54	H	-13
851.503	-64.24	H	-13
679.559	-50.67	V	-13
851.503	-51.24	H	-13

Disturbances other than those mentioned are small or not detectable.

Prüfbericht - Nr.: 16003507 001

Test Report No.:

Seite 17 von 23

Page 17 of 23

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.

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 18 von 23
Page 18 of 23

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:	36kHz
Limit:	± 75kHz

Table 7: operation bandwidth (Bn)

Parameter:	M	D
Reading	15kHz	36kHz
Bn:	100kHz	
Limit:	200kHz	
Emission Designator:	102KF3E	
Bn=2M+2D*K Bn: operation bandwidth M: Max. Modulation Frequency D: Peak Frequency Deviation K=1		

Refer for appendix for measurements.

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 19 von 23
Page 19 of 23

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: 470.29710 MHz

Test condition	Frequency(MHz)
-30°C	470.30281
-20°C	470.30010
-10°C	470.29715
0°C	470.29636
10°C	470.29710
20°C	470.29902
30°C	470.30620
40°C	470.30710
50°C	470.30732
Frequency Error:	0.0111
Frequency Error rate:	0.00236%
Frequency Tolerance Limit:	0.005%

Prüfbericht - Nr.: 16003507 001

Test Report No.:

Seite 20 von 23

Page 20 of 23

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

Ambient Frequency: 470.29792 MHz

Test condition	Frequency(MHz)
2.4V	470.29787
2.3V	470.29791
2.2V	470.29791
2.1V	470.29790
2.0V	470.29792
1.9V	470.29811
1.8V	470.29821
1.7V	470.29835
1.6V	470.29462
Frequency Error:	0.00325
Frequency Error rate:	0.00066%
Frequency Tolerance Limit:	0.005%

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 21 von 23
Page 21 of 23

6 Photographs of the Test Set-Up

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



Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 22 von 23
Page 22 of 23

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



7 List of Tables

Table 1: List of Test and Measurement Equipment.....	6
Table 2: test result for power output.....	14
Table 3: Spurious Emission: EUT operated on Bottom frequency (470.29 MHz).....	16
Table 4: Spurious Emission: EUT operated on Bottom frequency (490.29 MHz).....	16
Table 5: Spurious Emission: EUT operated on Bottom frequency (509.84 MHz).....	16
Table 6: maximum deviation	18
Table 7: operation bandwidth (Bn).....	18
Table 8: the measurement of Frequency tolerance (temperature)	19
Table 9: the measurement of Frequency tolerance (battery voltage).....	20

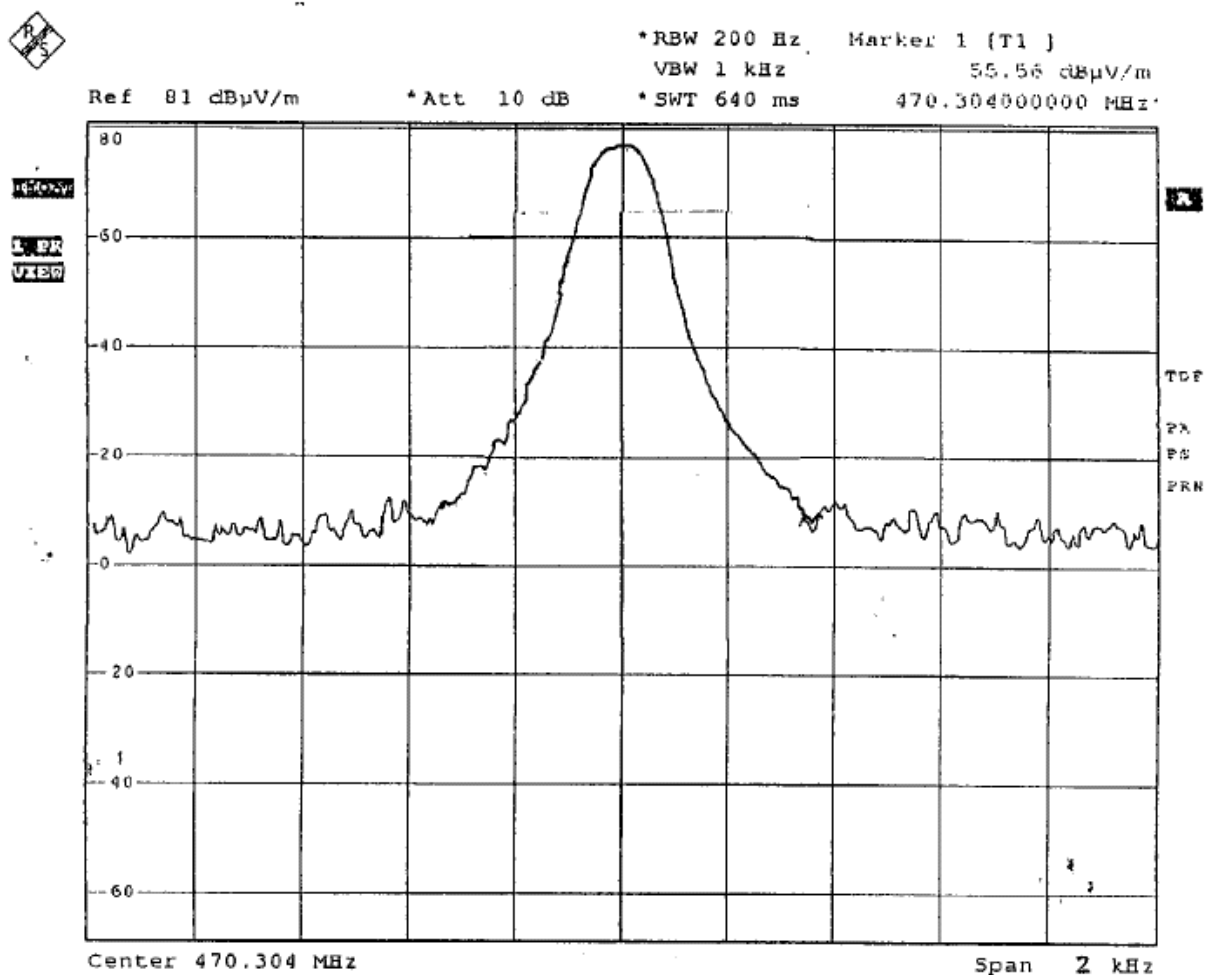
8 List of Photographs

Photograph 1: Set-up for Radiation Measurement Below 1GHz	21
Photograph 2: Set-up for Radiation Measurement above 1GHz	22

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 1 von 21
Page 1 of 21

Occupied Bandwidth:



Date: 26.MAY.2004 03:58:20

Prüfbericht - Nr.: 16003507 001

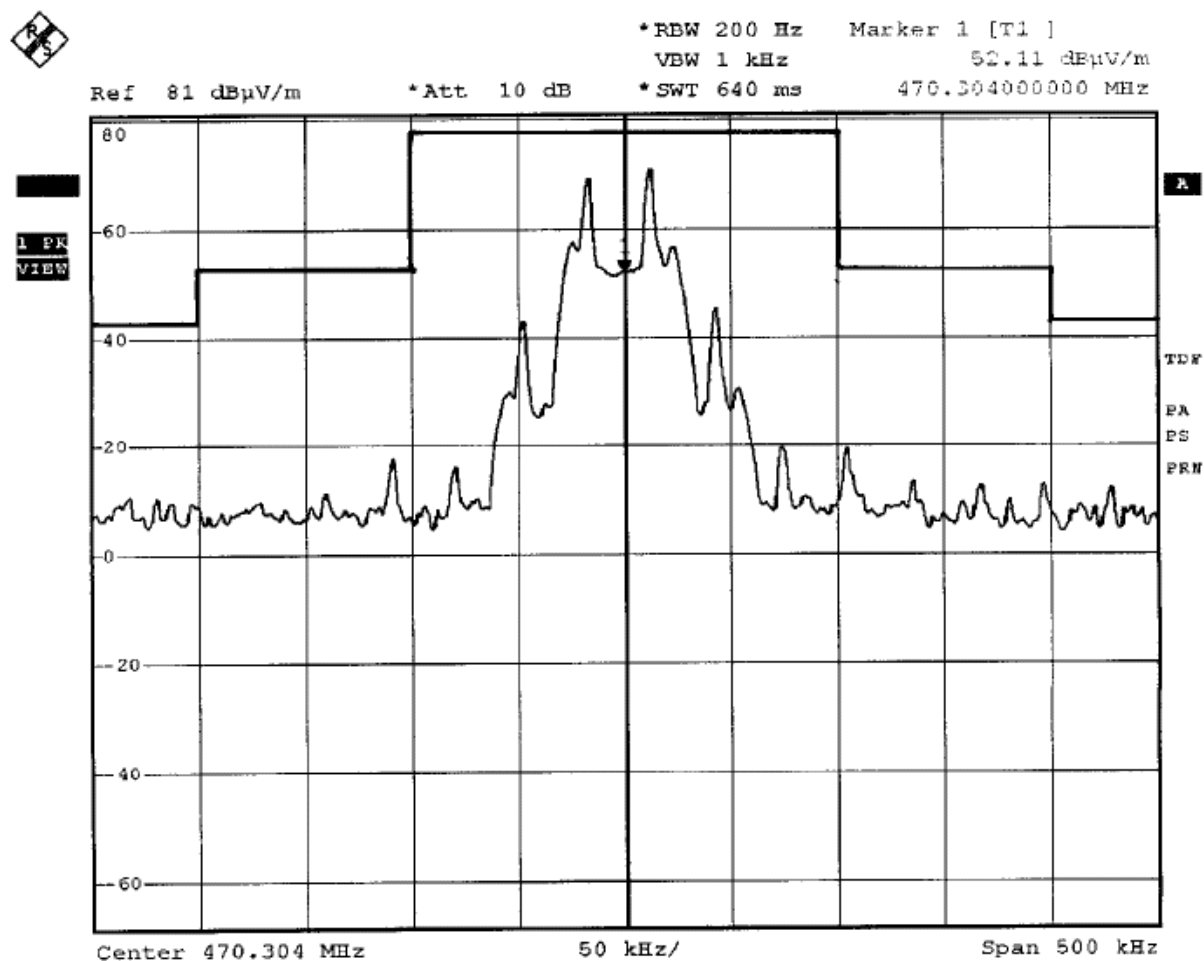
Test Report No.:

Seite 2 von 21

Page 2 of 21

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

300Hz Modulation



Date: 26.MAY.2004 03:53:38

Prüfbericht - Nr.: 16003507 001

Test Report No.:

Seite 3 von 21

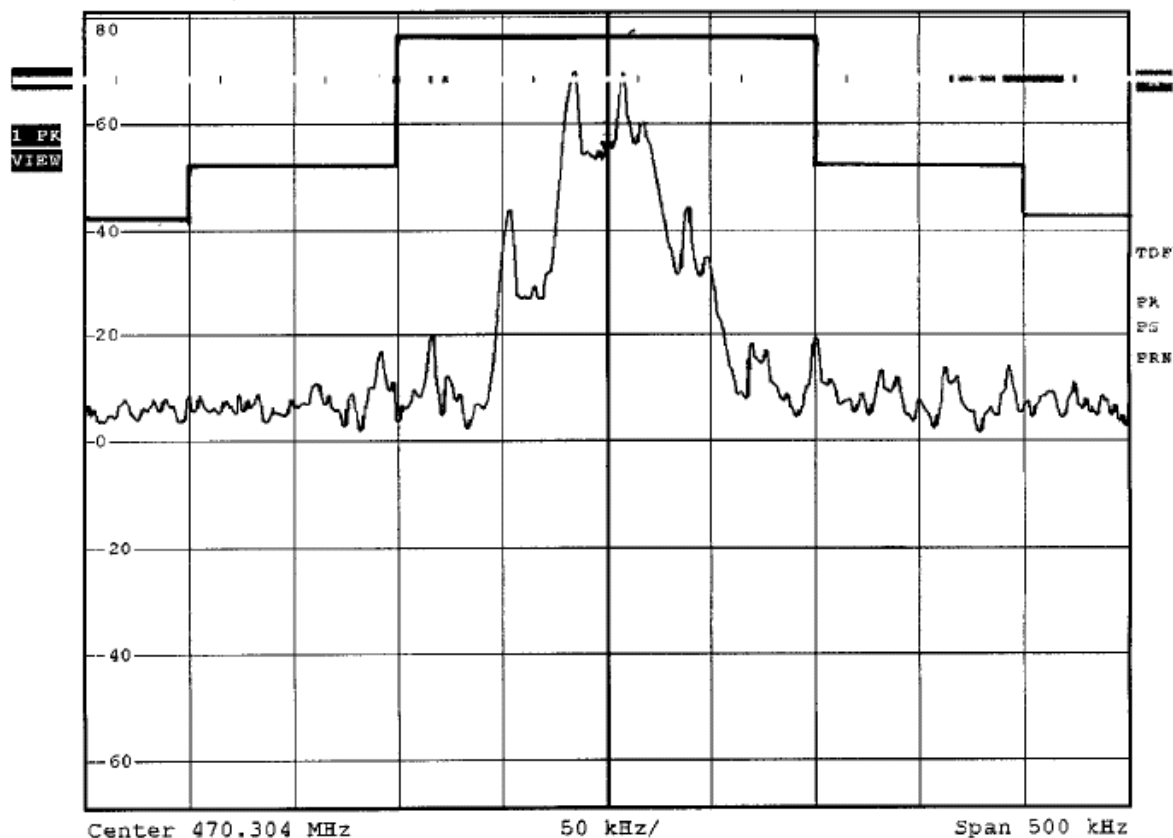
Page 3 of 21

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

365 Hz



Ref 81 dBμV/m *Att 10 dB *RBW 200 Hz Marker 1 [T1]
VBW 1 kHz 54.55 dBμV/m
*SWT 640 ms 470.30400000 MHz



Date: 26.MAY.2004 03:56:01

Prüfbericht - Nr.: 16003507 001

Test Report No.:

Seite 4 von 21

Page 4 of 21

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

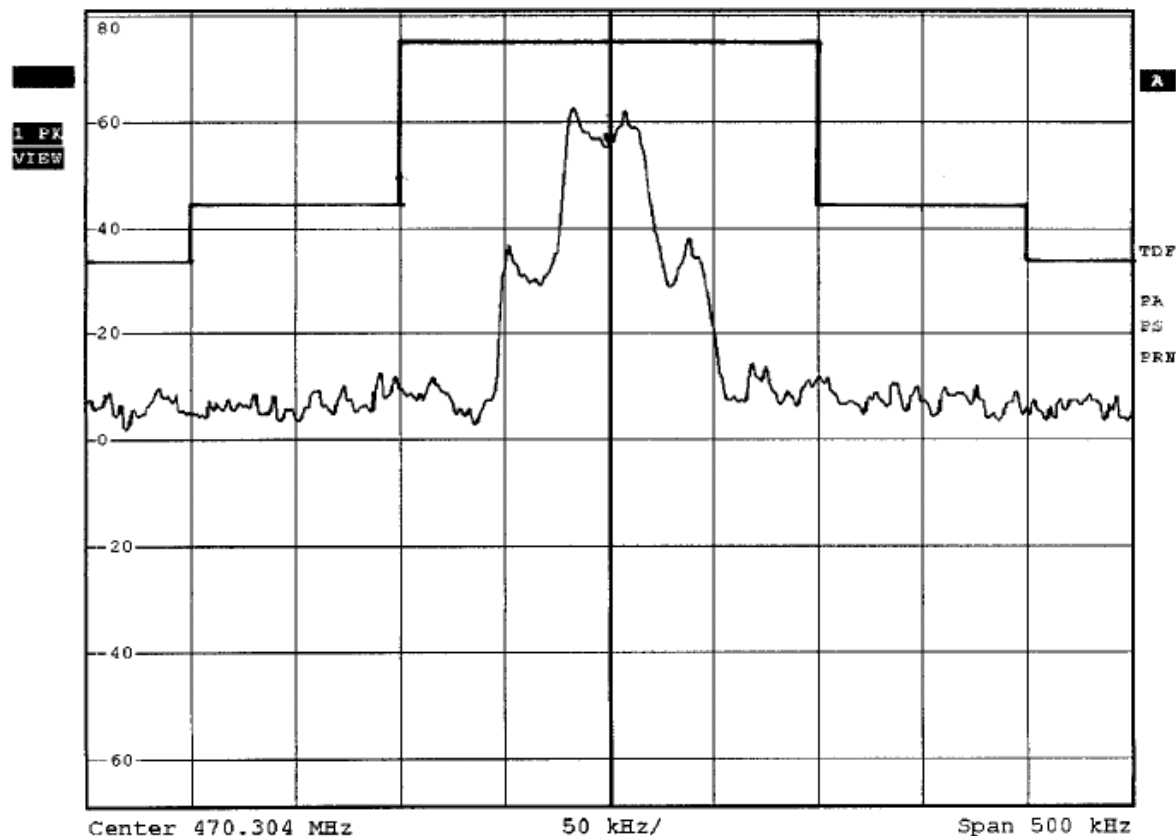
1kHz



*RBW 200 Hz Marker 1 [T1]
VBW 1 kHz 55.56 dBμV/m
*SWT 640 ms 470.304000000 MHz

Ref 81 dBμV/m

*Att 10 dB



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Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 5 von 21
Page 5 of 21

2.5k

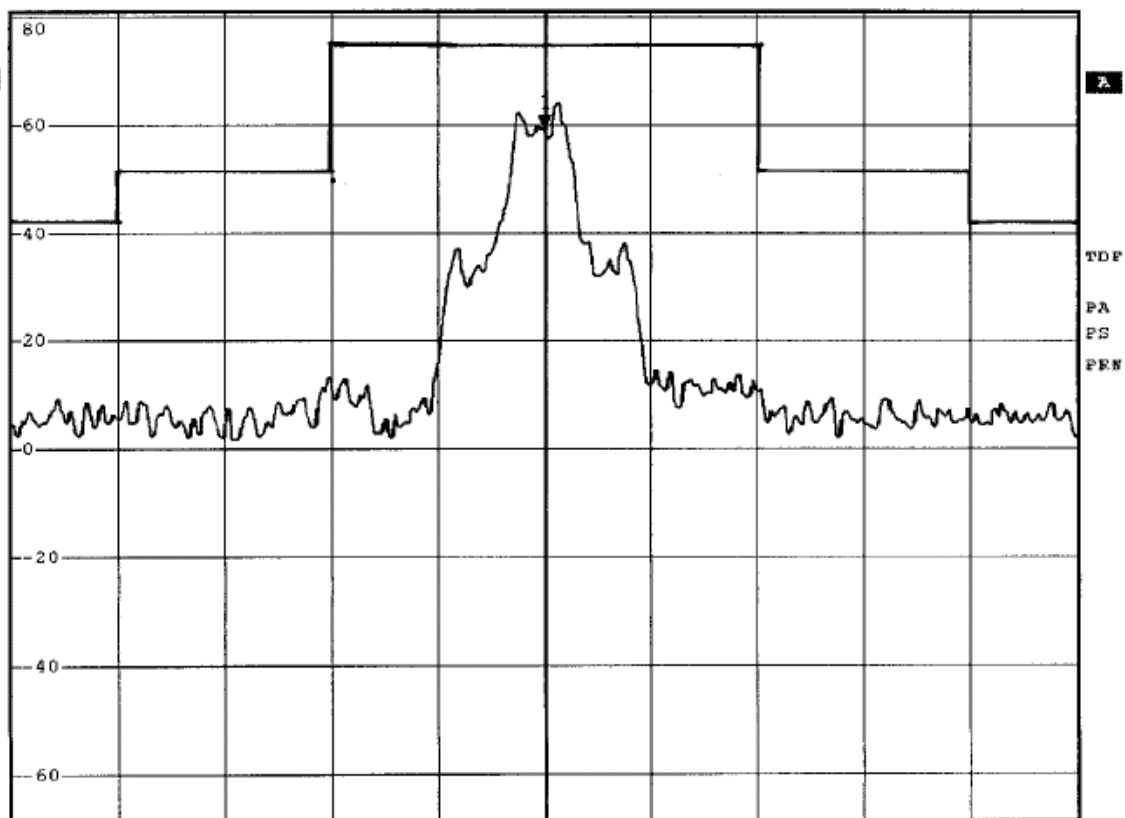


*RBW 200 Hz Marker 1 [T1]
VBW 1 kHz 59.45 dBμV/m
*SWT 640 ms 470.304000000 MHz

Ref 81 dBμV/m

*Att 10 dB

1 PK
VIEW



Date: 26.MAY.2004 04:01:00

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 6 von 21
Page 6 of 21

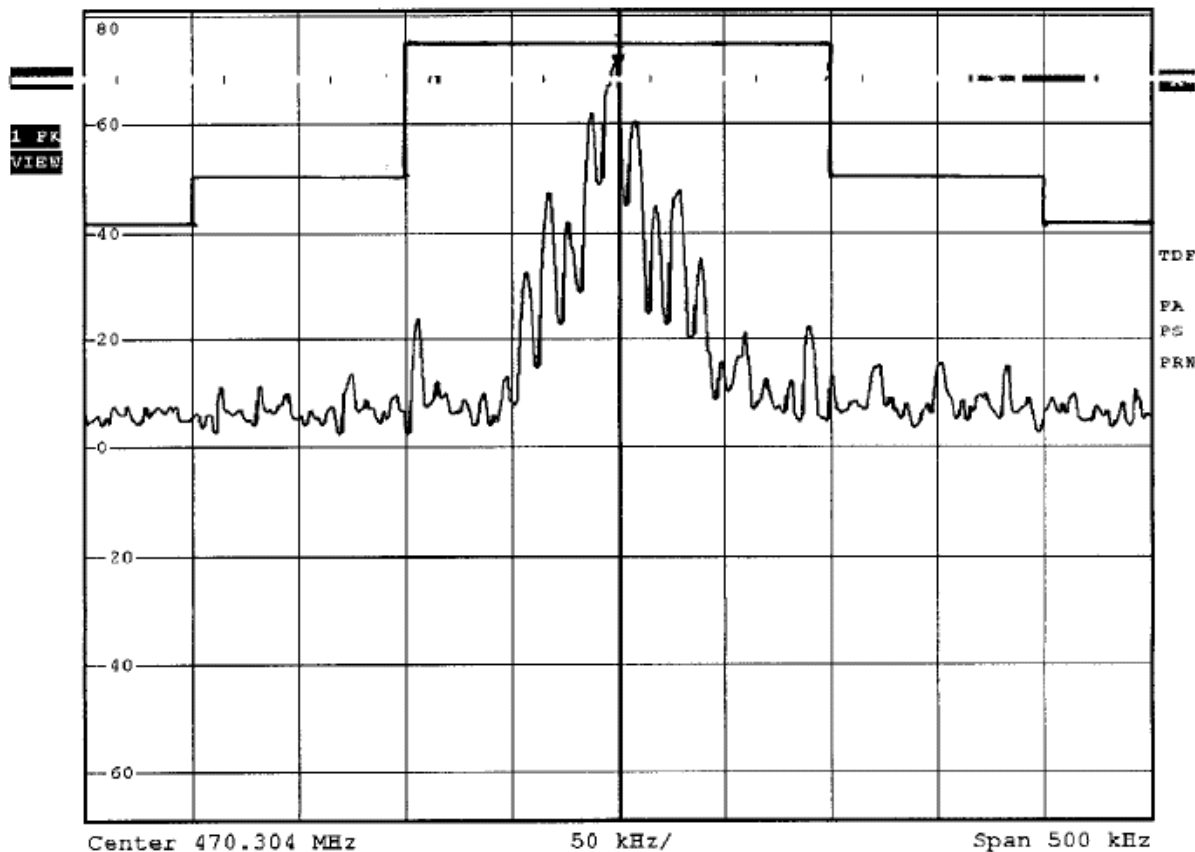
10kHz



*RBW 200 Hz Marker 1 [T1]
VBW 1 kHz 70.45 dBμV/m
*SWT 640 ms 470.304000000 MHz

Ref 81 dBμV/m

*Att 10 dB



Date: 26.MAY.2004 04:04:54

Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 7 von 21
Page 7 of 21

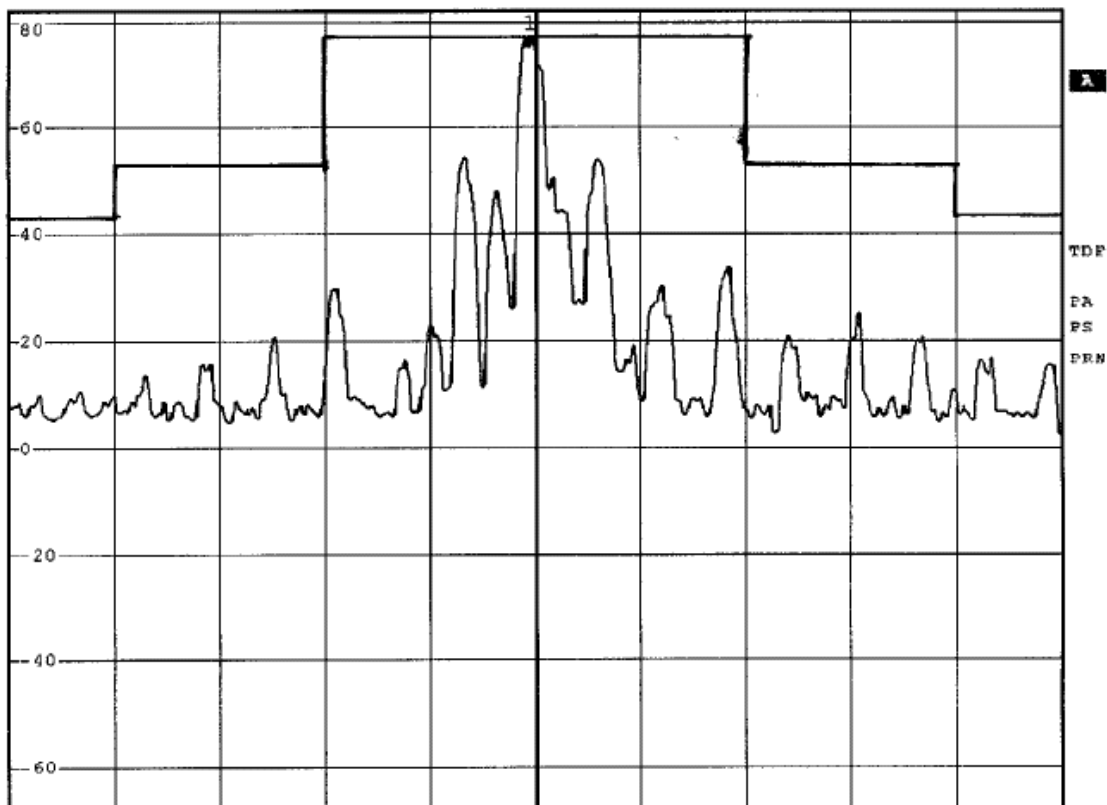
15kHz



*RBW 200 Hz Marker 1 [T1]
VBW 1 kHz 75.12 dBµV/m
*Att 10 dB *SWT 640 ms 470.301000000 MHz

Ref 82 dBµV/m

1 PR
VIEW



Center 470.304 MHz

50 kHz/

Span 500 kHz

Date: 26.MAY.2004 04:06:52

Prüfbericht - Nr.: 16003507 001

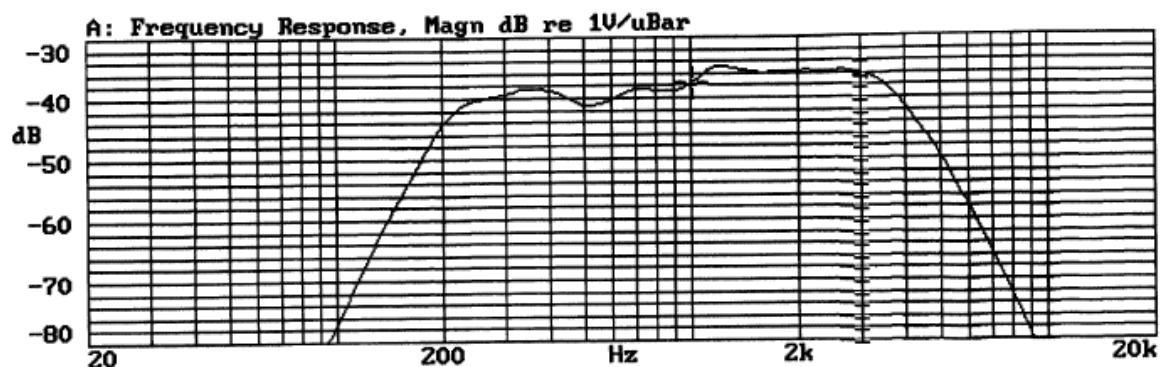
Test Report No.:

Seite 8 von 21

Page 8 of 21

Modulation Characteristics:

X:1.0000kHz *Y:-37.65dB ZA:2.0000 SSR Fund.



MANUF.		PS: 0° -37.65dB
MODEL	UB-3	180° dB
SPEC.		
APPROV.		

11-JUN-2004 16:51:35

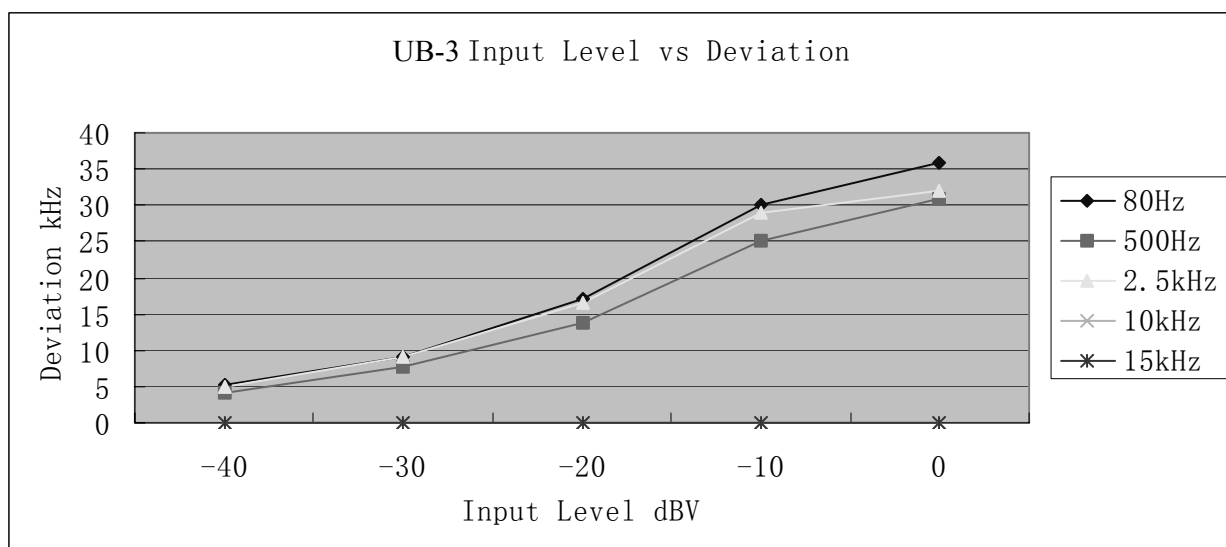
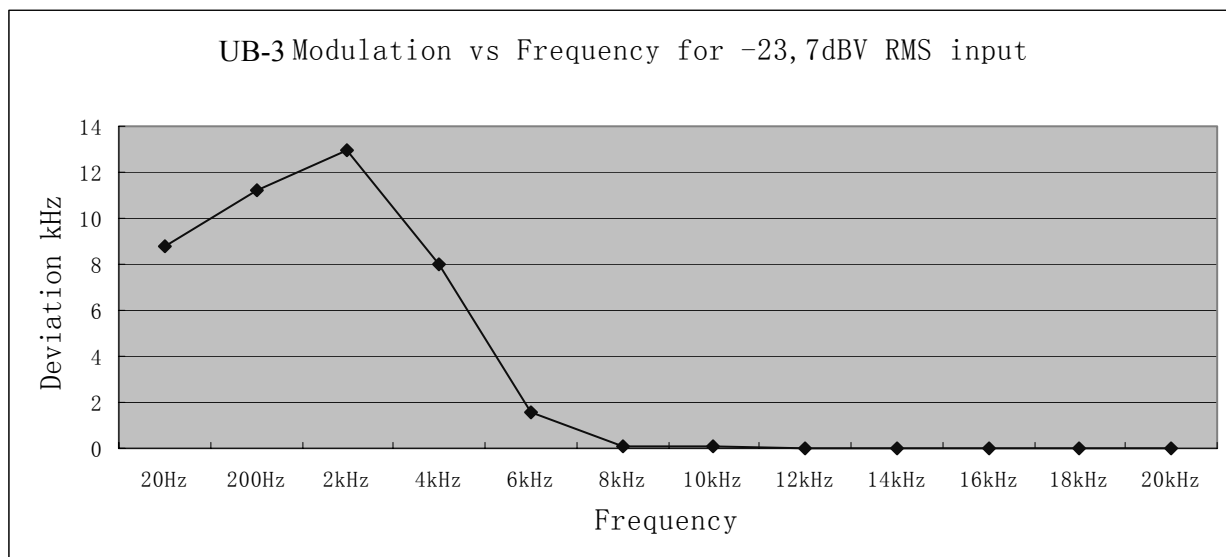
Mode: MICMEAS



Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 9 von 21
Page 9 of 21

Modulation Characteristics:



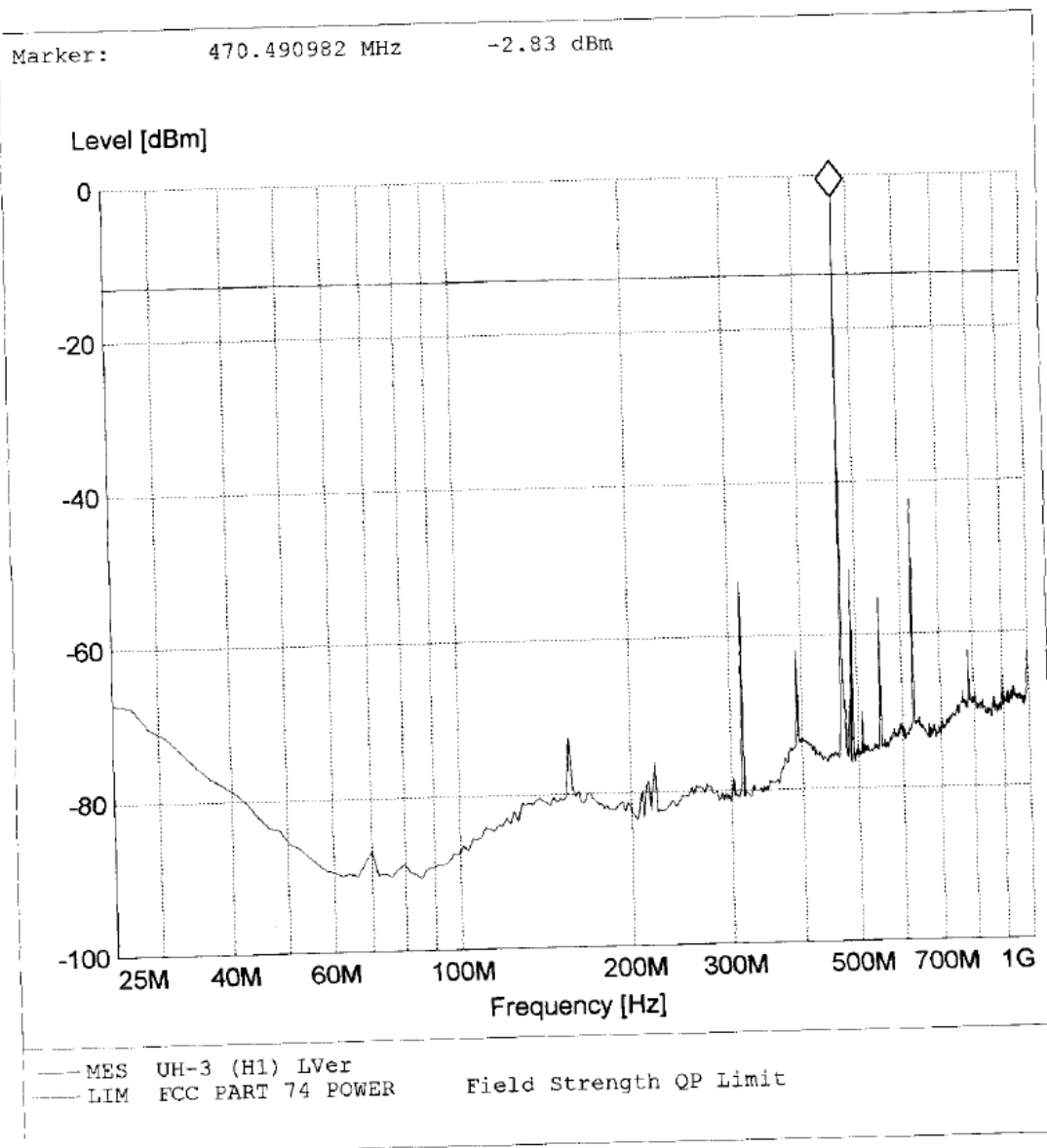
Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 10 von 21
Page 10 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B1)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Test Specification:
Comment: Vertical
Comment: DC 3V



Prüfbericht - Nr.: 16003507 001
Test Report No.:

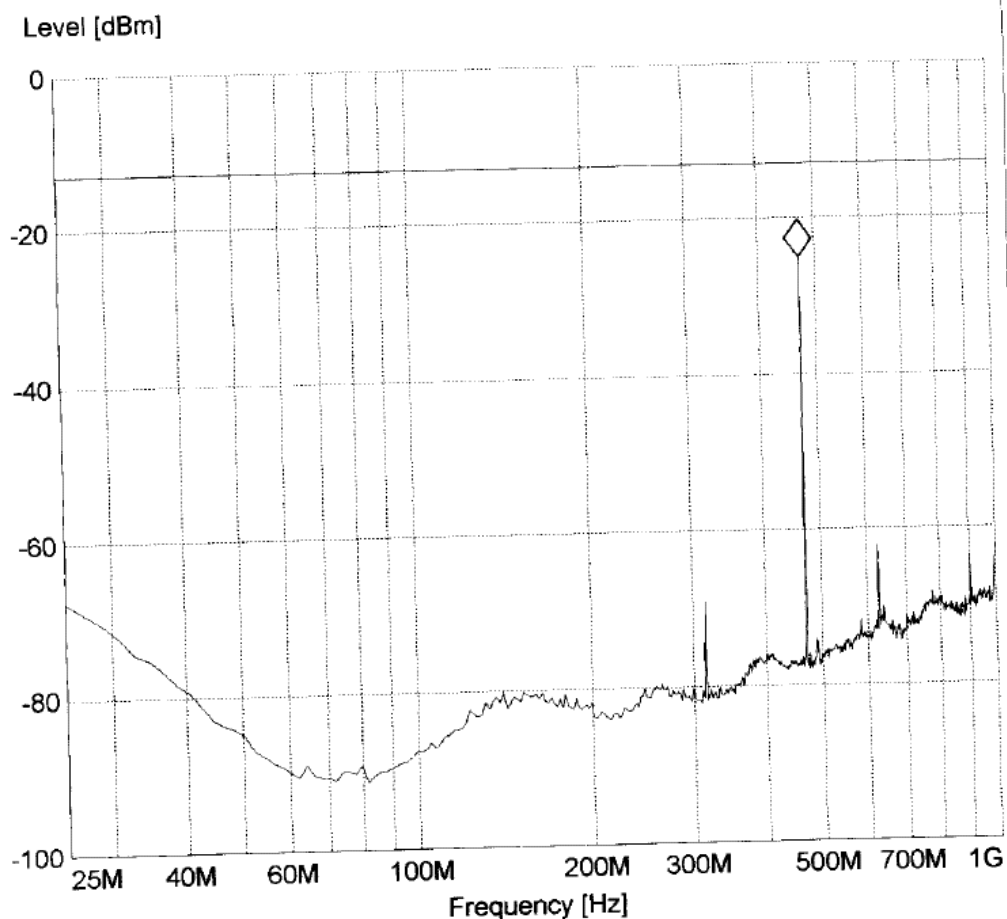
Seite 11 von 21
Page 11 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B1)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Test Specification:
Comment: Horizontal
Comment: DC 3V

Marker: 470.490982 MHz -24.97 dBm



MES UH-3 (H1) LHor
— LIM FCC PART 74 POWER Field Strength QP Limit

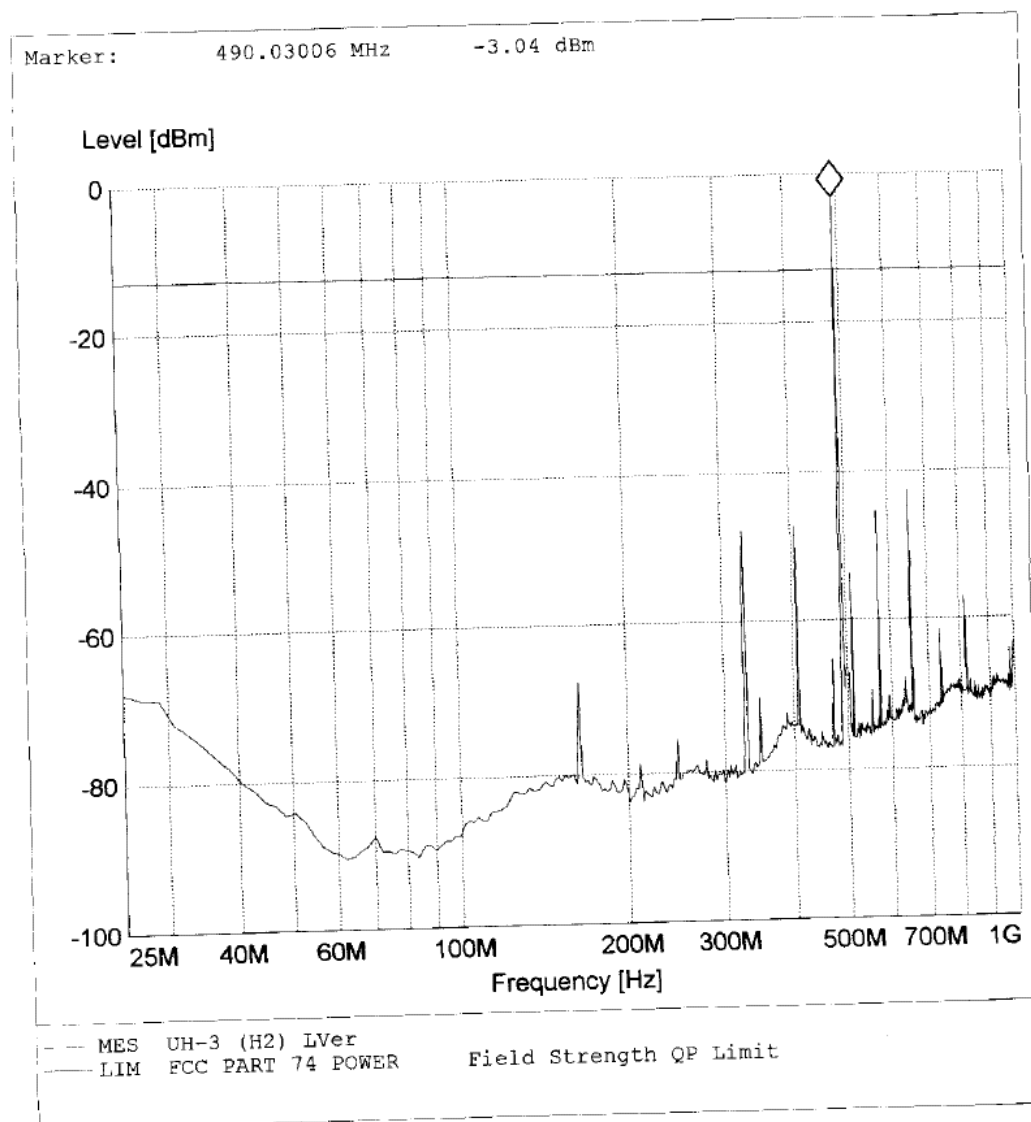
Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 12 von 21
Page 12 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B2)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Test Specification:
Comment: Vertical
Comment: DC 3V



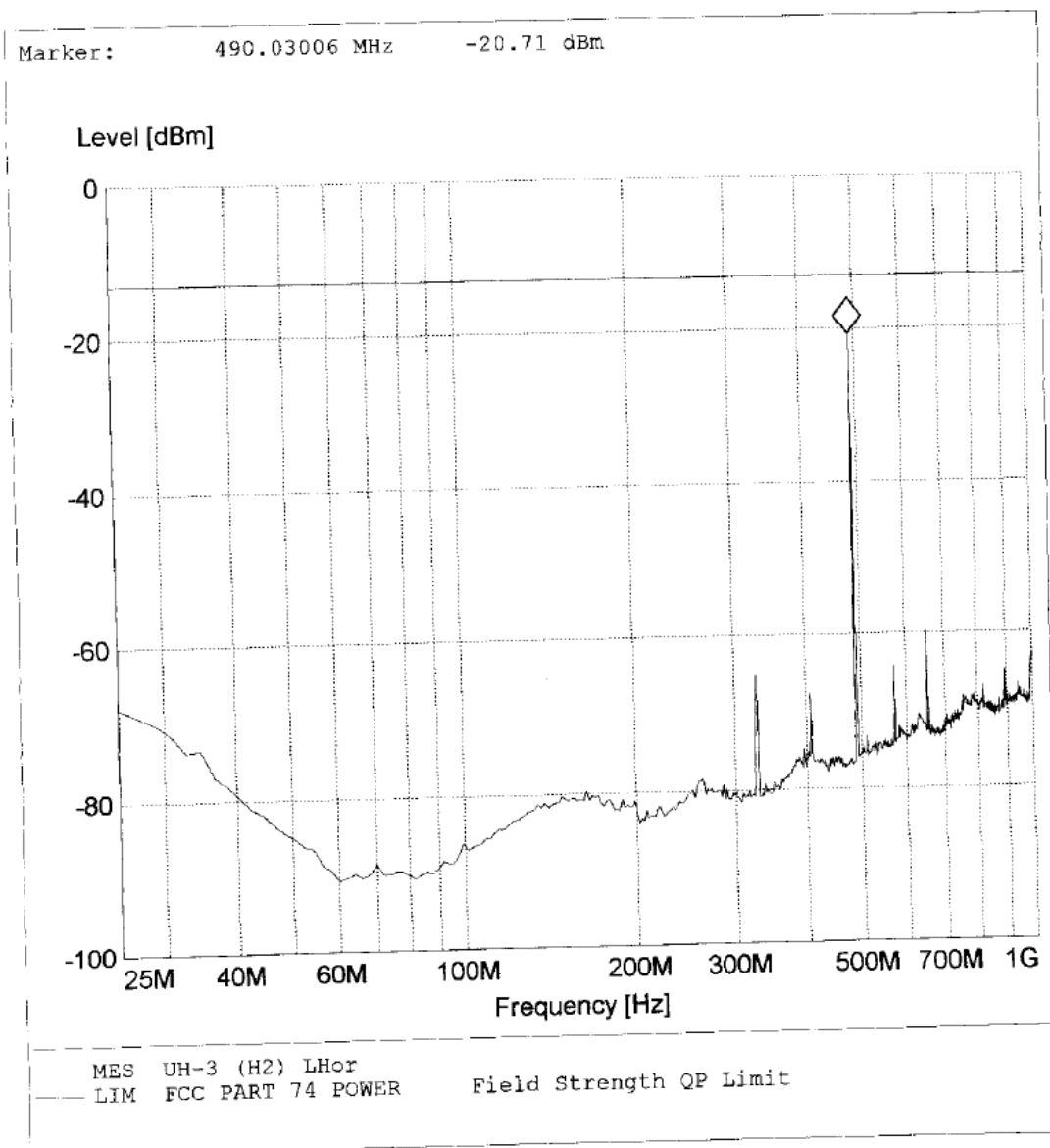
Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 13 von 21
Page 13 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B2)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Test Specification:
Comment: Horizontal
Comment: DC 3V



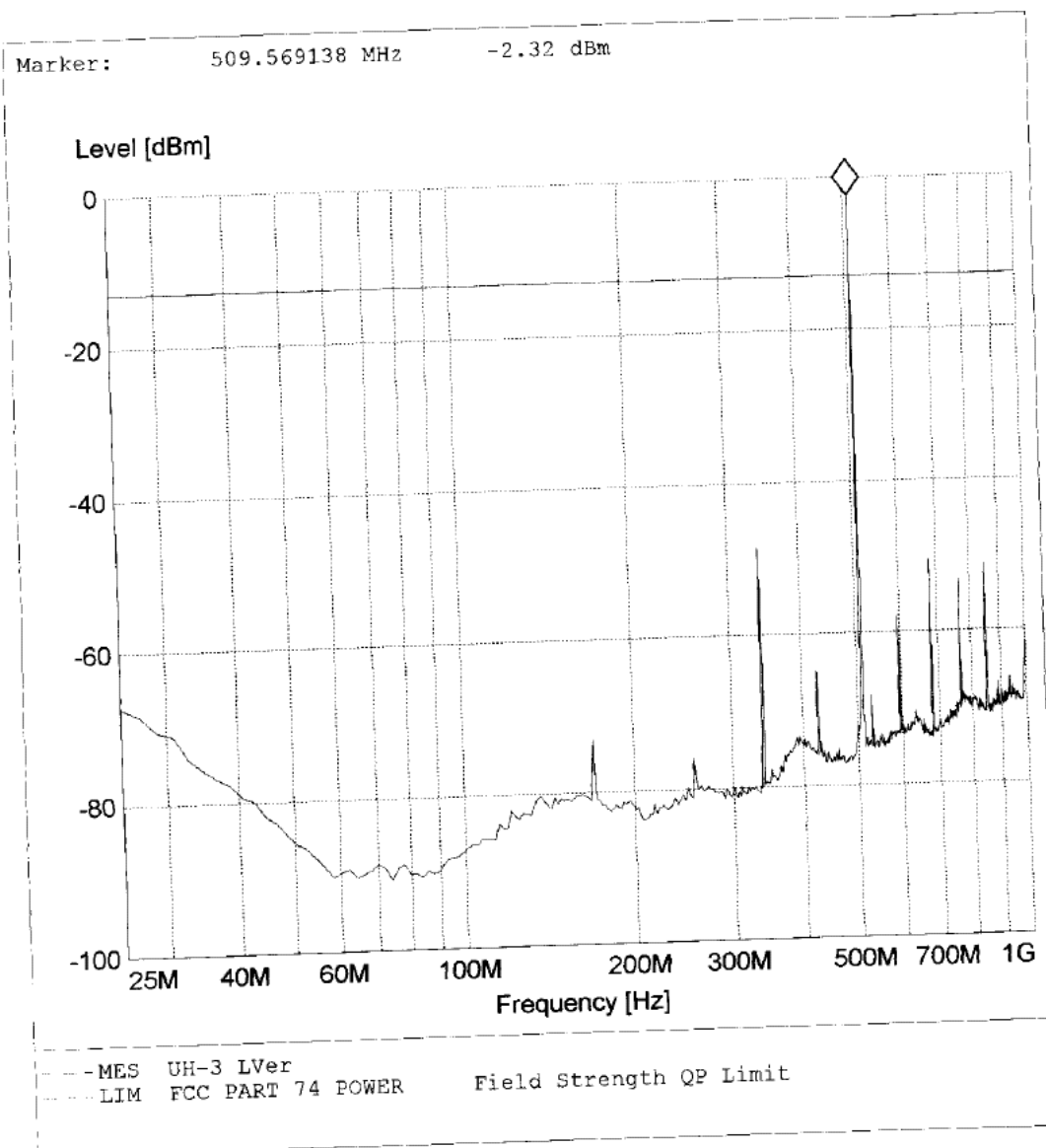
Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 14 von 21
Page 14 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B3)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Test Specification:
Comment: Vertical
Comment: DC 3V



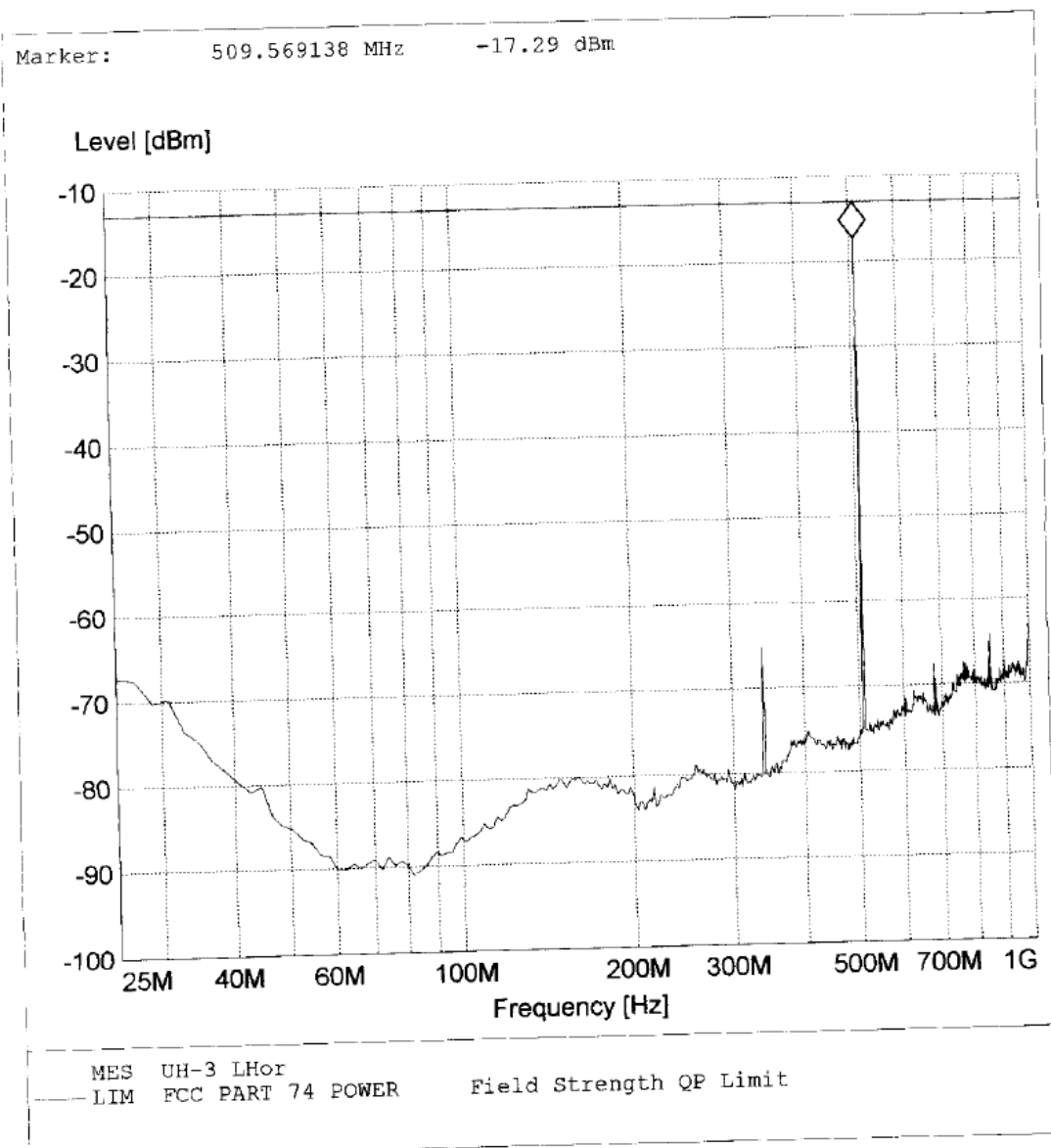
Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 15 von 21
Page 15 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B3)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Test Specification:
Comment: Horizontal
Comment: DC 3V



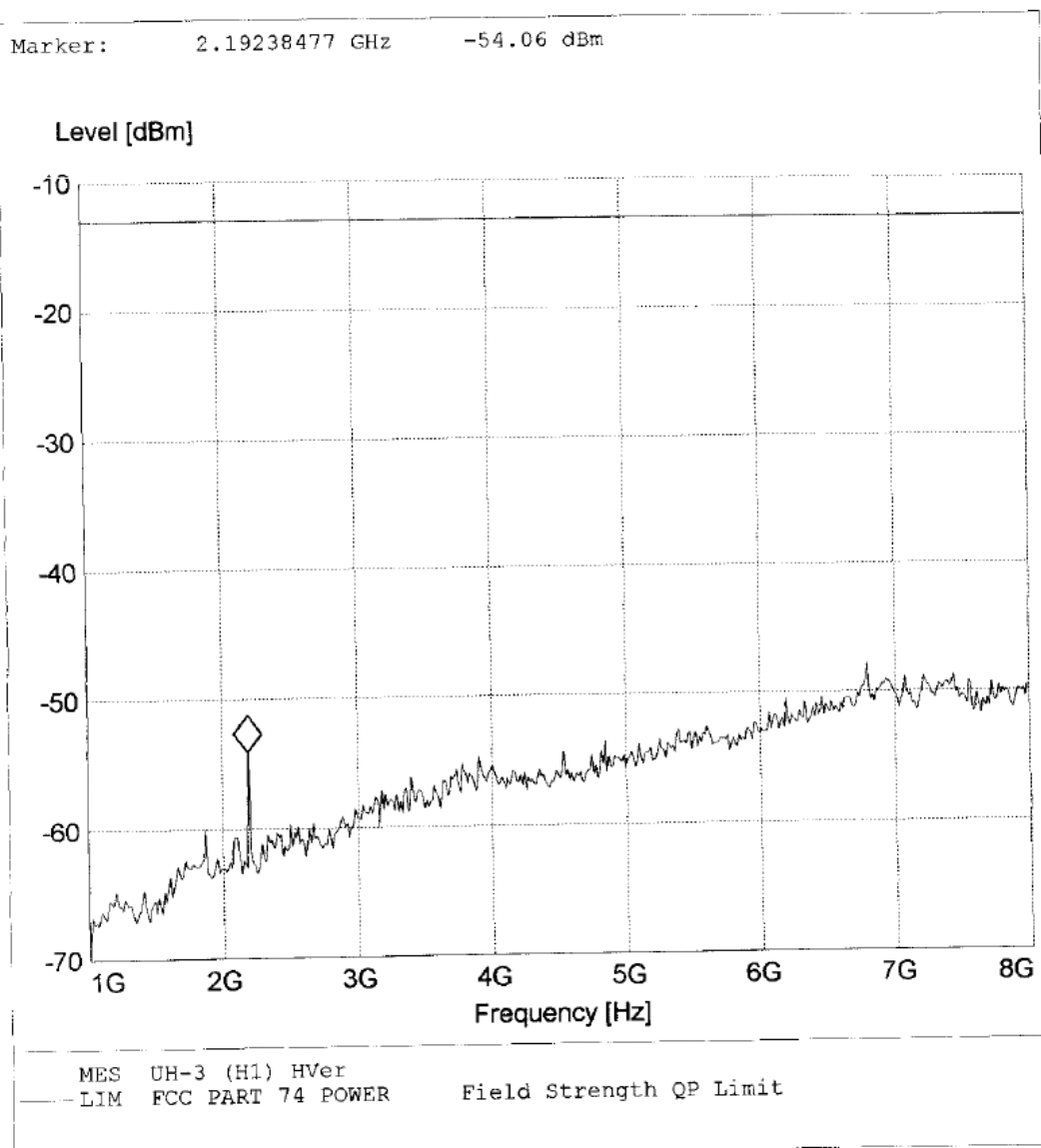
Prüfbericht - Nr.: 16003507 001
Test Report No.:

Seite 16 von 21
Page 16 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B1)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V



Prüfbericht - Nr.: 16003507 001
Test Report No.:

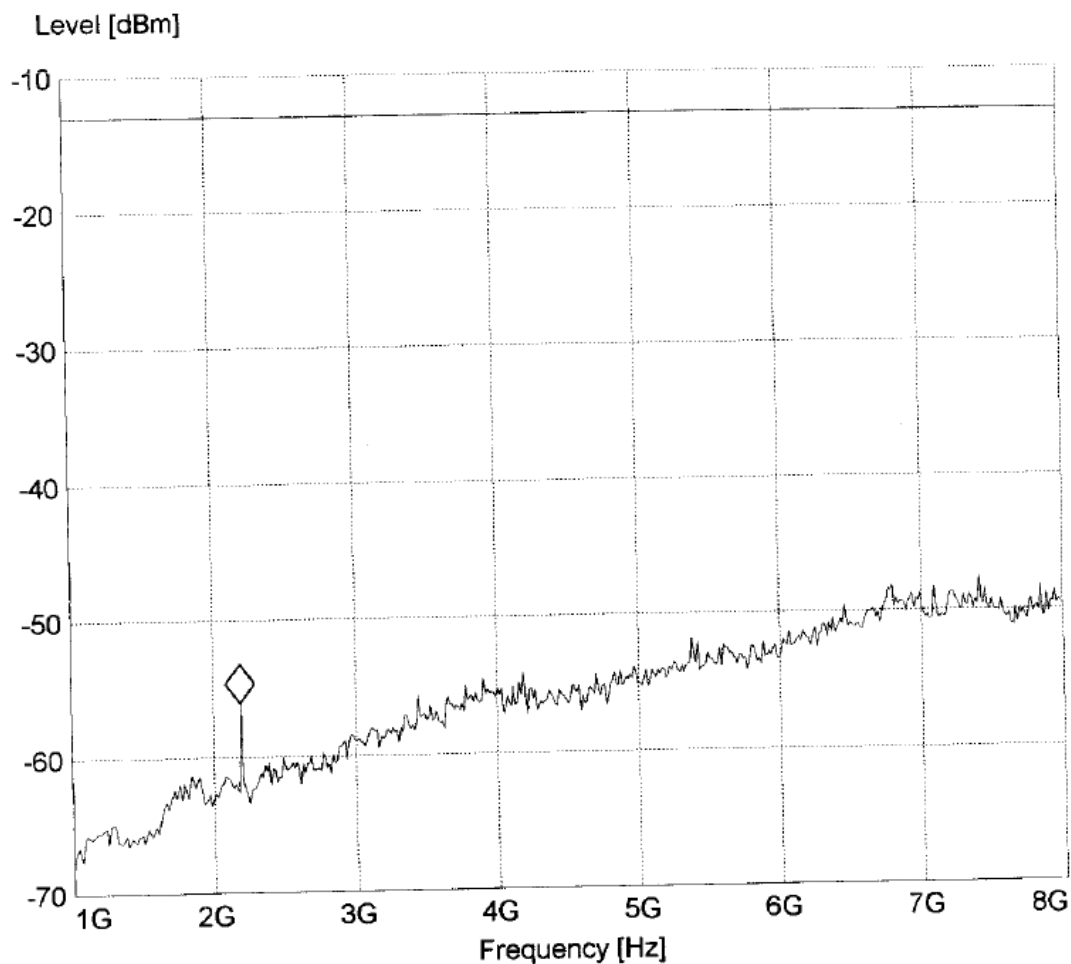
Seite 17 von 21
Page 17 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B1)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Vertical
Comment: DC 3V

Marker: 2.19238477 GHz -56.03 dBm



MES UH-3 (H1) HHor
— LIM FCC PART 74 POWER Field Strength QP Limit

Prüfbericht - Nr.: 16003507 001
Test Report No.:

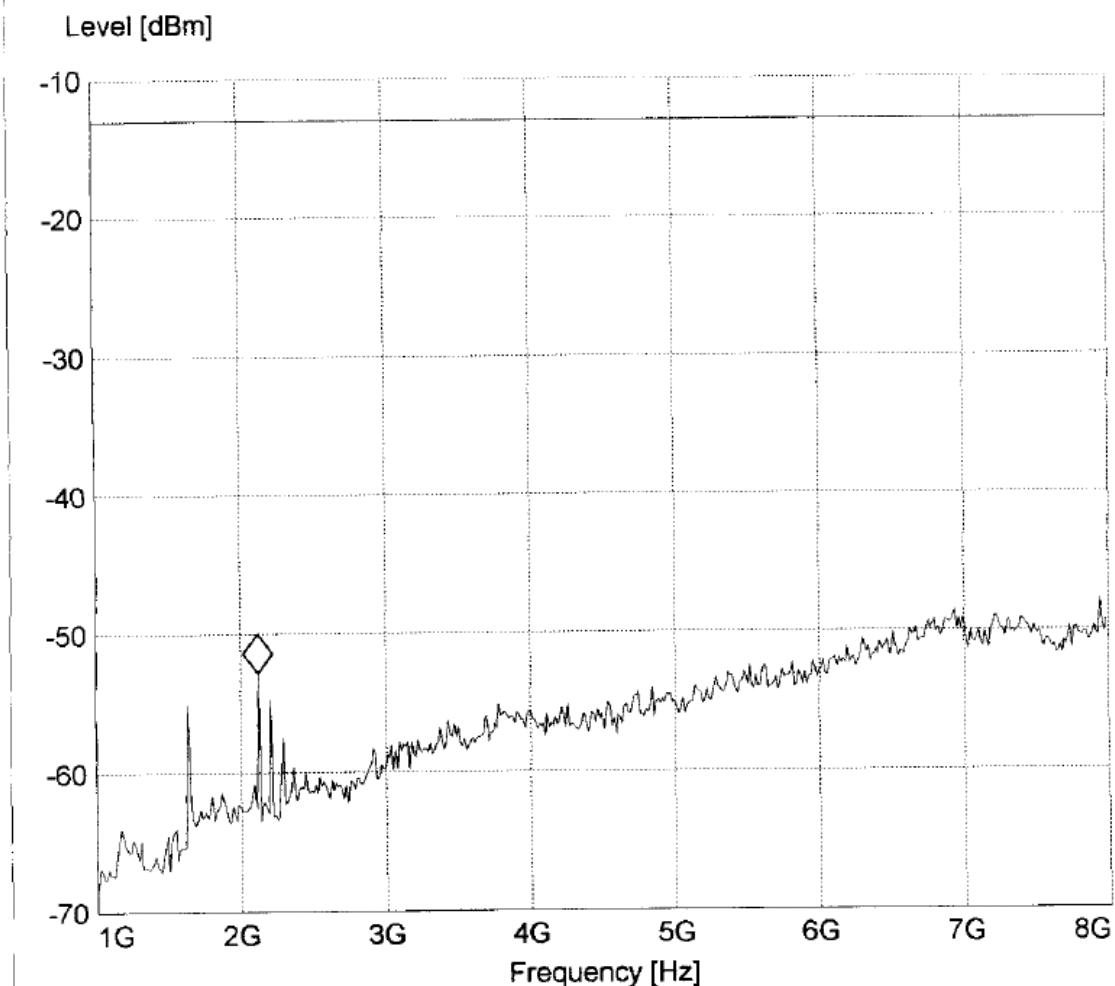
Seite 18 von 21
Page 18 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B2)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V

Marker: 2.122244489 GHz -52.8 dBm



MES UH-3 (H2) HHor

— LIM FCC PART 74 POWER

Field Strength QP Limit

Prüfbericht - Nr.: 16003507 001
Test Report No.:

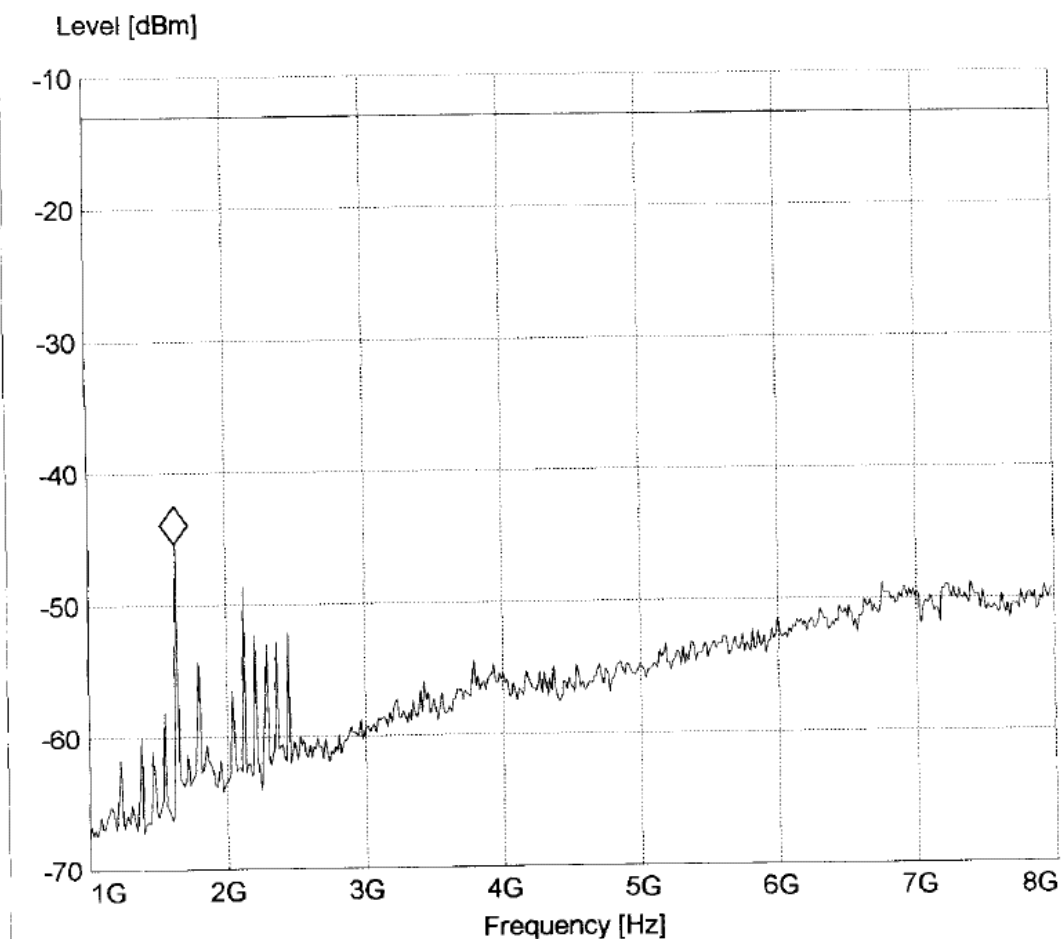
Seite 19 von 21
Page 19 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B2)
Manufacturer:
Operating Condition: ON
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

Prüfbericht - Nr.: 16003507 001
Test Report No.:

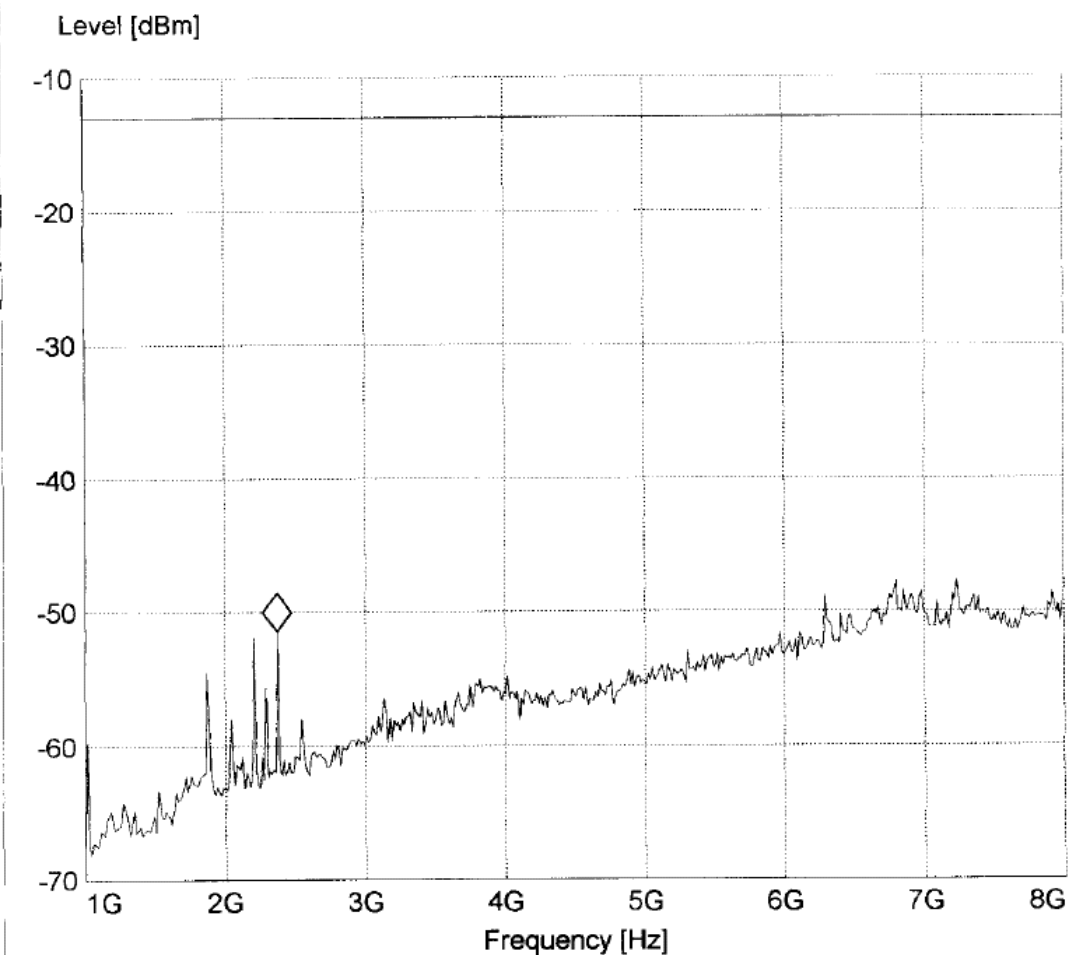
Seite 20 von 21
Page 20 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B3)
Manufacturer:
Operating Condition: ON
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.: 16003507 001
Test Report No.:

Seite 21 von 21
Page 21 of 21

Radiated Disturbance

FCC Part 74

EUT: M/N:UB-3 (B3)
Manufacturer:
Operating Condition: ON
Test Site: SMQ EMC Lab.SAC
Operator:
Test Specification: Horizontal
Comment: DC 3V

