CETECOM Inc.

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www.cetecom.com



Issued test report consists of 53 Pages

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FCC LISTED, REG. NO.: 101450 &
RECOGNIZED BY INDUSTRY CANADA
IC – 3925

Test report no.: EMC_382_FCC15.247_2002_S56 FCC Part 15.247 for FHSS systems / CANADA RSS-210 (S56) FCC ID: PWX-S56



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- 1 General information
- 1.1 Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

TEST REPORT PREPARED BY:

EMC Engineer: Philip Kim

1.2 Testing laboratory

CETECOM Inc.

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E-mail: lothar.schmidt@cetecomusa.com

Internet: www.cetecom.com



1.3 Details of applicant

Name : SIEMENS Mobile LLC Street : 16745 West Bernardo Dr.

City / Zip Code : San Diego, CA 92129

Country : U.S.A

Contact : Dr. Peter Nevermann

Telephone : (858) 521 3282 Tele-fax : (858) 521 3105

e-mail : <u>peter.nevermann@icm.siemens.com</u>

1.4 Application details

Date of receipt of application : 2002-11-23 Date of receipt test item : 2002-11-23

Date of test : 2002-11-23, 11-25 through 11-26

1.5 Test item

Manufacturer : SIEMENS Street Address : Suedstr. 9

City / Zip Code : 47475 Kamp-Lintfort

Country : Germany Marketing Name : S56

Model No. : L56 Marlin

Serial No. : IMEI: 001002000214036

Description : GSM 850/1900 mobile phone + Bluetooth

FCC-ID · PWX-S56

Additional information

Frequency : 2402 MHz – 2480 MHz for Bluetooth

Type of modulation : GFSK / FHSS for Bluetooth

Number of channels : 79 for Bluetooth

Antenna : embedded

Power supply : Battery or charger (AC adaptor)
Output power : 1.38dBm (1.374mW) max. EIRP

Extreme vol. Limits : 3.6 VDC – 5.2 VDC Extreme temp. Tolerance : -30 C to +50 C

1.6 Test standards: FCC Part 15 §15.247 (DA00-705)

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

Section

Date



Signature

CEIEC	JOINT THE.			The state of the s
Test report n	o.:EMC_328_FCC15.247		Issue date:2002-12-18	Page 4 (53)
2	Technical test			
2.1	Summary of test resu	ılts		
No devi	iations from the techni	cal specification Perfor	n(s) were ascertained in a	the course of the tests
(only "passe	Final Verdict ed" if all single measu		ssed'')	Passed
Technical r	esponsibility for area	a of testing:		
2002-12-18	EMC & Radio	Siegfried Le (Technical M		fred believen
Date	Section	Name		Signature
Responsible	e for test report and	project leader:		

Name



2.2 Test report

TEST REPORT

Test report no.: EMC_382_FCC15.247_2002_S56 (S56)



Test report no.:EMC_328_FCC15.247_2002_S56 Issue date:2002-12-18 Page 6 (53) TEST REPORT REFERENCE LIST OF MEASUREMENTS **PAGE ANTENNA GAIN** § 15.204 7 **CARRIER FREQUENCY SEPERATION** §15.247(a) 8 NUMBER OF HOPPING CHANNELS §15.247(a) 9 TIME OF OCCUPANCY (DWELL TIME) §15.247(a) 13 SPECTRUM BANDWIDTH OF FHSS SYSTEM §15.247(a) 16 POWER SPECTRAL DENSITY §15.247 (d) 20 MAXIMUM PEAK OUTPUT POWER 24 § 15.247 (b) (1) **BAND EDGE COMPLIANCE** 29 §15.247 (c) **EMISSION LIMITATIONS** § 15.247 (c) (1) 33 **CONDUCTED EMISSIONS** § 15.107/207 44 **RECEIVER SPURIOUS RADIATION** § 15.209 46 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS 51 **BLOCK DIAGRAMS 52**



ANTENNA GAIN § 15.204

The antenna gain of the complete system is calculated by the difference of conducted power of the module and the radiated power in EIRP.

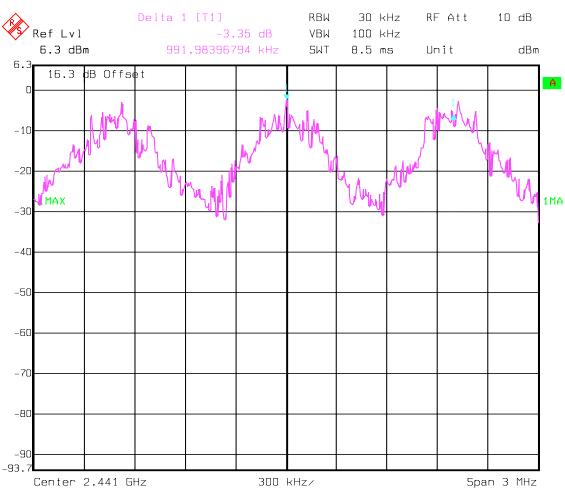
	Low channel	Mid channel	High channel
Conducted Power	0.17 dBm	-2.01 dBm	-2.23 dBm
Raidated Power (EIRP)	1.38 dBm	0.37 dBm	1.01 dBm
Antenna Gain	1.21 dBi	2.38 dBi	3.24dBi

The calculated antenna gain is between 1.21 and 3.24 dBi.



CARRIER FREQUENCY SEPERATION

§15.247(a)



Date: 25.NOV.2002 05:45:48

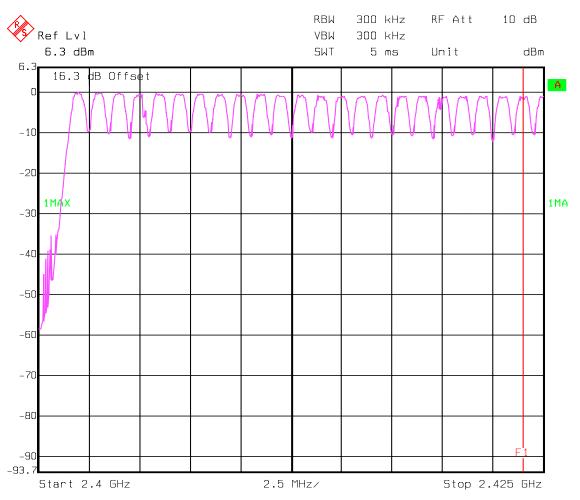


NUMBER OF HOPPING CHANNELS

§15.247(a)

The number of hopping channels is 79 (see next 4 plots)
The right red line corresponds to the left red line from the next plot.

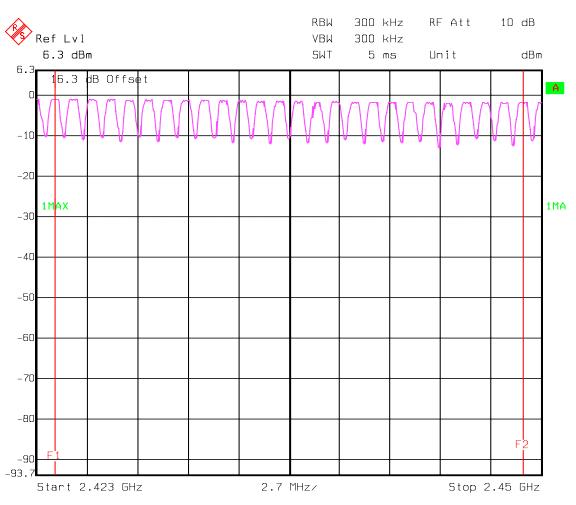
Plot 1: Total 23



Date: 25.NOV.2002 05:50:28



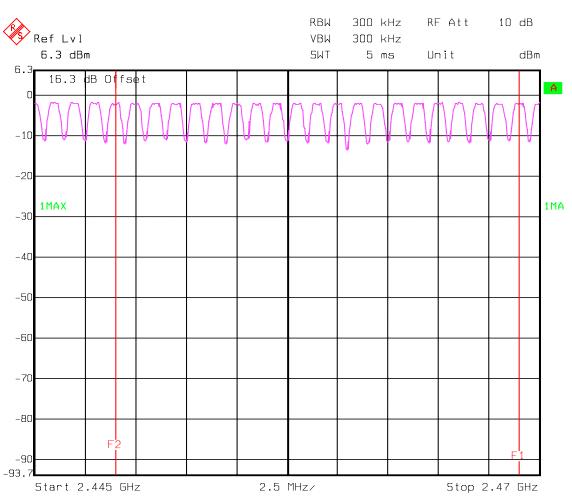
Plot 2: Total 25



Date: 25.NOV.2002 05:54:43



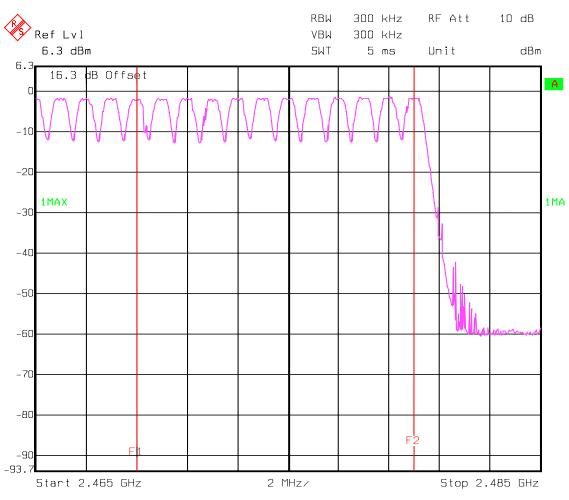
Plot 3: Total 20



Date: 25.NOV.2002 05:59:42



Plot 4: Total 11



Date: 25.NOV.2002 06:03:44



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TIME OF OCCUPANCY (DWELL TIME)

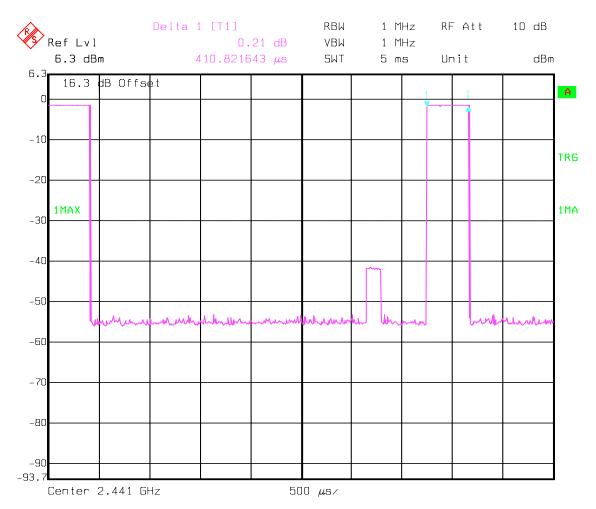
§15.247(a)

DH1 - Packet

The system makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels. A DH1 Packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So you have each channel 10.13 times per second and so for 30 seconds you have 303.9 times of appearence.

Each Tx-time per appearence is 410.8 µs.

So we have $303.9 * 410.8 \mu s = 124.84 \text{ ms per } 30 \text{ seconds.}$



Date: 25.NOV.2002 06:10:17



Test report no.:EMC_328_FCC15.247_2002_S56 Issue date:2002-12-18 Page 14 (53)

TIME OF OCCUPANCY (DWELL TIME)

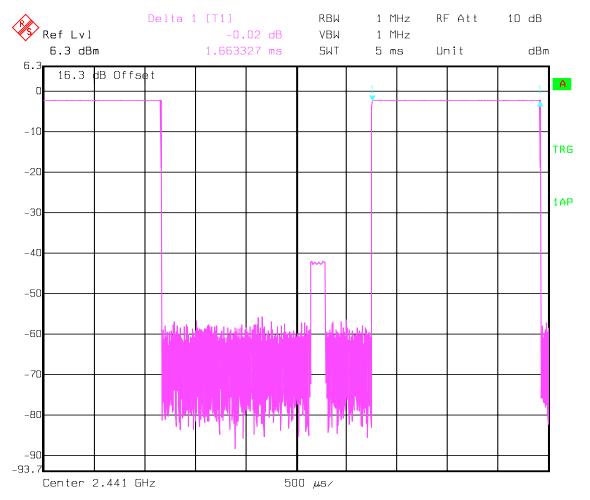
§15.247(a)

DH3 - Packet

A DH3 Packets need 3 time slots for transmit and 1 for receicing, then the system makes worst case 400 hops per second with 79 channels. So you have each channel 5.1 times per second and so for 30 seconds you have 153 times of appearence.

Each Tx-time per appearence is 1.66 ms.

So we have 153 * 1.66 ms = 253.98 ms per 30 seconds.



Date: 25.NOV.2002 06:12:53



Test report no.:EMC_328_FCC15.247_2002_S56 Issue date:2002-12-18 Page 15 (53)

TIME OF OCCUPANCY (DWELL TIME)

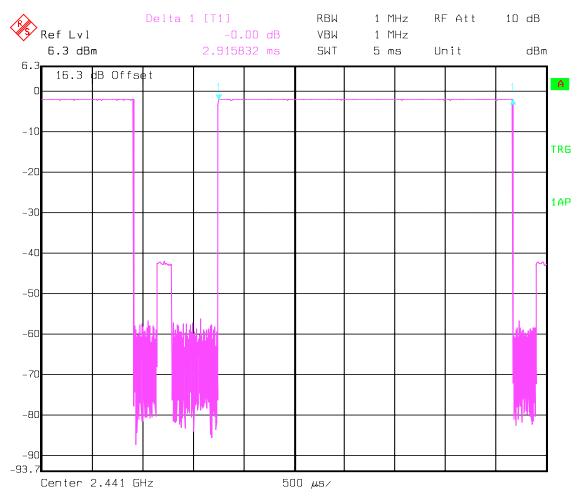
§15.247(a)

DH5 - Packet

At DH5 Packets you need 5 time slots for transmit and 1 for receicing, then the system makes worst case 266,7 hops per second with 79 channels. So you have each channel 3.36 times per second and so for 30 seconds you have 100.8 times of appearence.

Each tx-time per appearence is 2.91ms.

So we have 100.8 * 2.91ms = 293.32 ms per 30 seconds.



25.NOV.2002 06:16:59 Date:



SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

TEST CONDITIONS		20 dB BANDWIDTH (kHz)		
Frequen	cy (MHz)	2402	2441	2480
T _{nom} (23)°C	V _{nom} (3.8)VDC	921.84	929.86	925.85

RBW / VBW as provided in the "Measurement Guidelines" (DA 00-705, March 30, 2000)

LIMIT

SUBCLAUSE §15.247(a) (1)

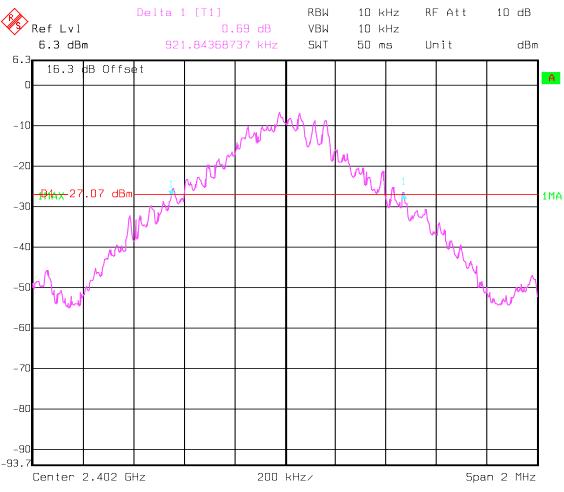
The maximum 20dB bandwith shall be at maximum 1000 KHz



SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Lowest Channel: 2402MHz



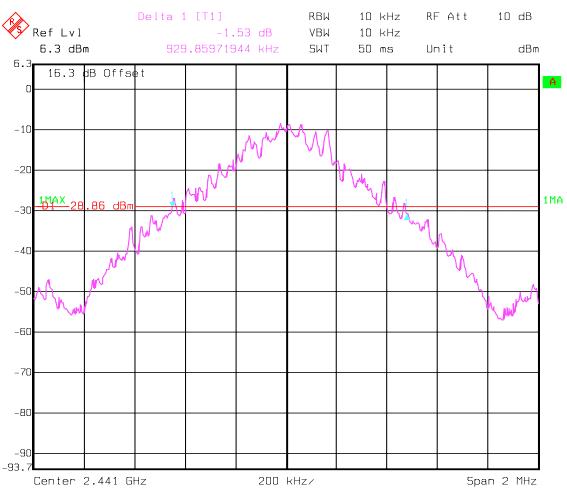
Date: 25.NOV.2002 04:27:00



SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Mid Channel: 2441MHz



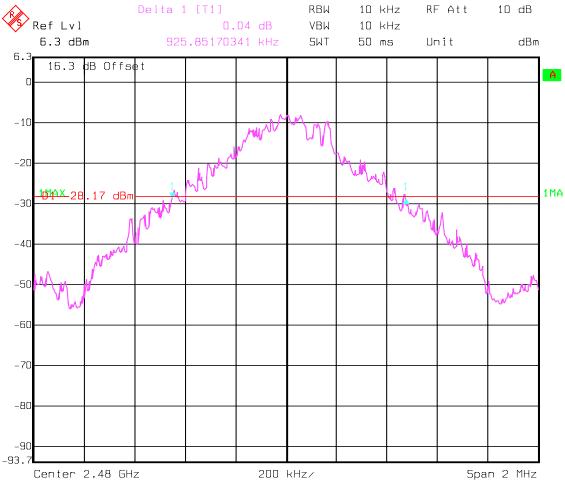
Date: 25.NOV.2002 04:25:19



SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Highest Channel: 2480MHz



Date: 25.NOV.2002 04:35:49



POWER SPECTRAL DENSITY

§15.247 (d)

TEST CONDITIONS		POWER SPECTRAL DENSITY (dBm)		
Frequen	cy (MHz)	2402	2441	2480
T _{nom} (23)°C	V _{nom} (3.8)VDC	-12.00	-13.79	-13.48

LIMIT

SUBCLAUSE §15.247(d)

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

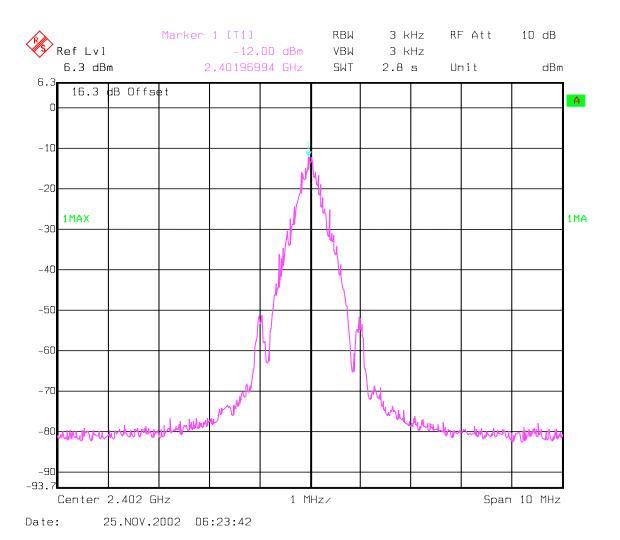
ANALYZER SETTINGS: RBW=3KHz, VBW=3KHz



POWER SPECTRAL DENSITY

§15.247(d)

Lowest Channel: 2402MHz

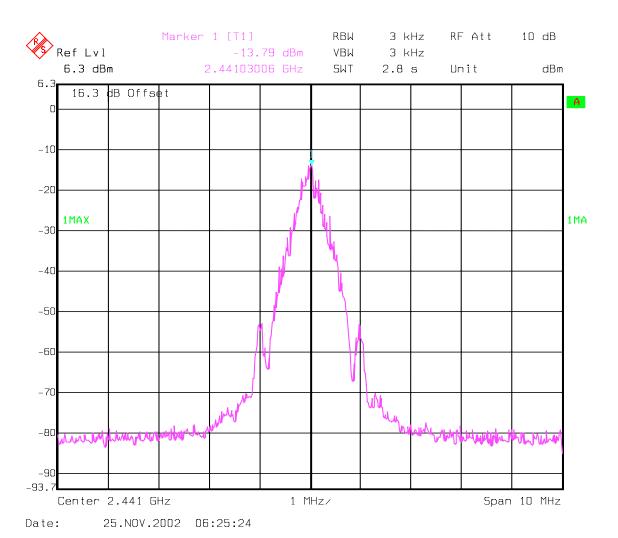




POWER SPECTRAL DENSITY

§15.247(d)

Middle Channel: 2441MHz

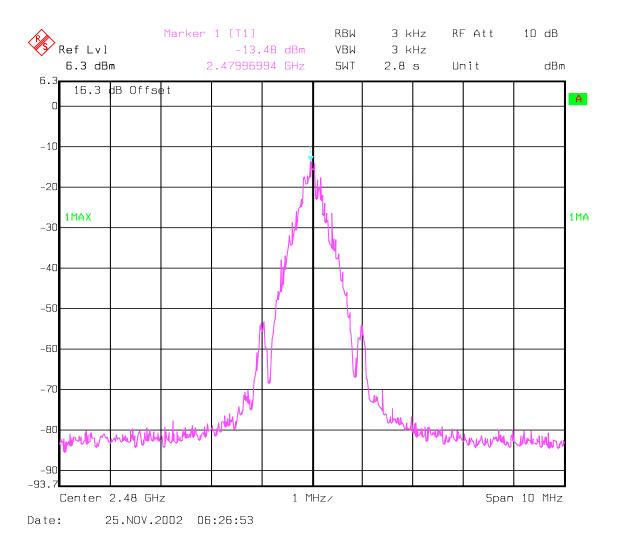




POWER SPECTRAL DENSITY

§15.247(d)

Highest Channel: 2480MHz





MAXIMUM PEAK OUTPUT POWER (conducted)

§ 15.247 (b) (1)

Note: No plots has been provide for conducted measurements, see plots under EIRP.

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} (3.8)VDC	0.17	-2.01	-2.23
Measurement uncertainity		±0.5dBm		

RBW / VBW : 3 MHz

LIMIT

SUBCLAUSE § 15.247 (b) (1)

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt



MAXIMUM PEAK OUTPUT POWER (RADIATED)

§ 15.247 (b) (1)

EIRP:

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T _{nom} (23)°C	V _{nom} (3.8)VDC	1.38	0.37	1.01
Measurement uncertainty		±0.5dBm		

RBW/VBW: 3 MHz

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

LIMIT

SUBCLAUSE § 15.247 (b) (1)

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt



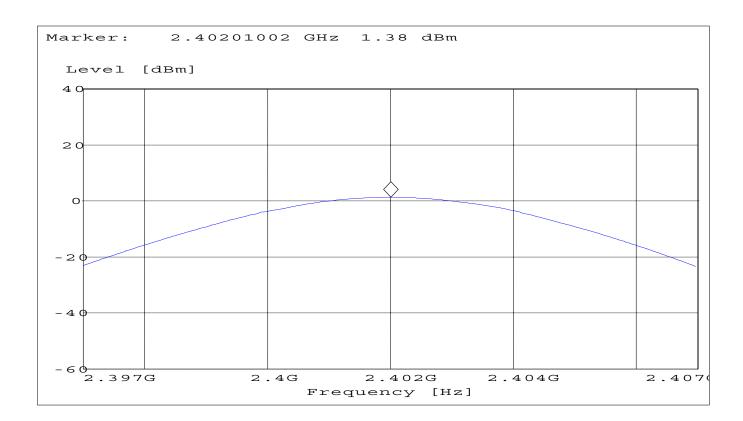
PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

Lowest Channel: 2402MHz

SWEEP TABLE: "EIRP BT low channel"

Short Description: EIRP Bluetooth channel-2402MHz
Start Stop Detector Meas. IF
Frequency Frequency Time BW
2.397GHz 2.407GHz MaxPeak Coupled 3 MHz





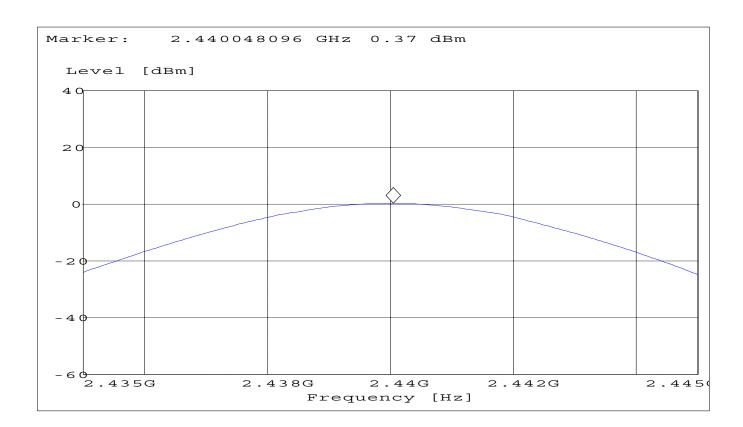
PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

Mid Channel: 2441MHz

SWEEP TABLE: "EIRP BT Mid channel"

Short Description: EIRP Bluetooth channel-2441MHz
Start Stop Detector Meas. IF
Frequency Frequency Time BW
2.435GHz 2.445GHz MaxPeak Coupled 3 MHz





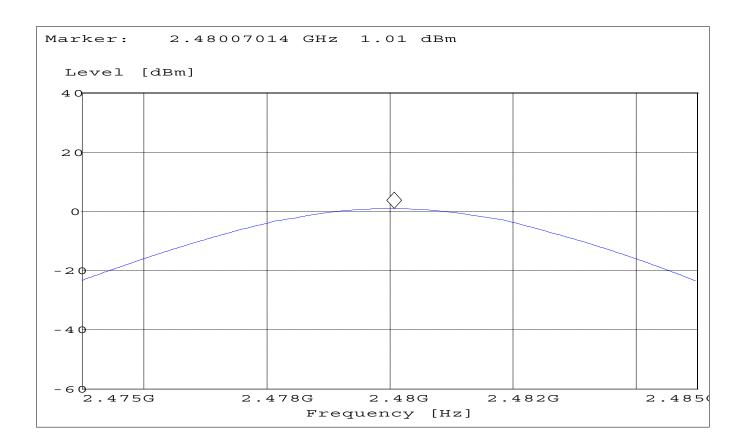
PEAK OUTPUT POWER (RADIATED)

§15.247 (b) (1)

Highest Channel: 2480MHz

SWEEP TABLE: "EIRP BT High channel"

Short Description: EIRP Bluetooth channel-2480MHz
Start Stop Detector Meas. IF
Frequency Frequency Time BW
2.475GHz 2.485GHz MaxPeak Coupled 3 MHz





BAND EDGE COMPLIANCE

§15.247 (c)

Low frequency section (spurious in the restricted band 2310 – 2390 MHz) (Hopping – ON, Average meaurement)

Note: This plot is valid for both hopping ON & OFF

Operating condition : Tx at 2402MHz

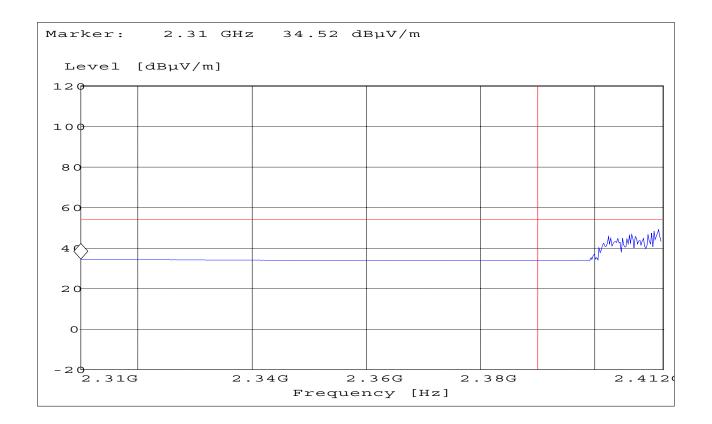
SWEEP TABLE : "FCC15.247 LBE_AVG"
Short Description : FCC15.247 BT Low-band-edge

Limit Line : 54dBµV

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.31 GHz 2.412 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

Low frequency section (spurious in the restricted band 2310 – 2390 MHz) (Hopping – ON, Peak meaurement)

Note: This plot is valid for both hopping ON & OFF

Operating condition : Tx at 2402MHz

SWEEP TABLE : "FCC15.247 LBE_Pk"

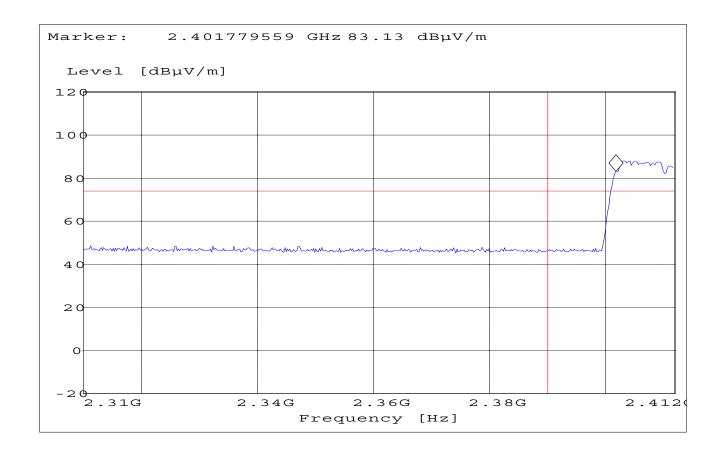
Short Description : FCC15.247 BT Low-band-edge

Limit Line : 74dBµV

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.31 GHz 2.412 GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

High frequency section (spurious in the restricted band 2483.5 – 2500 MHz) (Hopping – ON, Average meaurement)

Note: This plot is valid for both hopping ON & OFF

Operating condition : Tx at 2480MHz

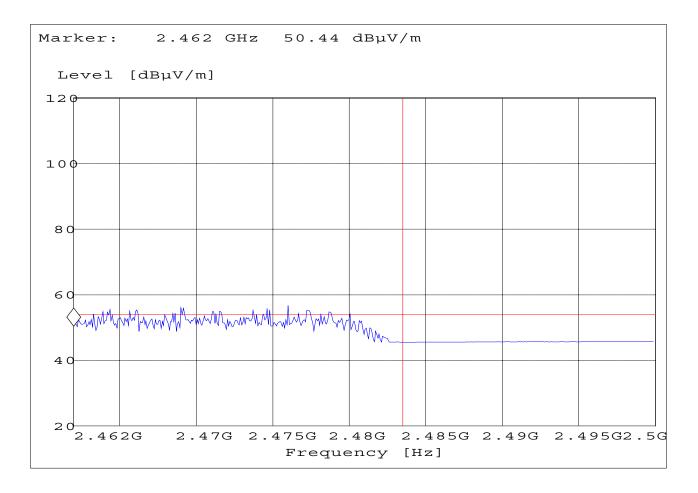
SWEEP TABLE : "FCC15.247 HBE_AVG"
Short Description : FCC15.247 BT High-band-edge

Limit Line : 54dBµV

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.472 GHz 2.5 GHz MaxPeak Coupled 1 MHz 10Hz #326 horn (dBi)





BAND EDGE COMPLIANCE

§15.247 (c)

High frequency section (spurious in the restricted band 2483.5 – 2500 MHz) (Hopping – ON, Peak meaurement)

Note: This plot is valid for both hopping ON & OFF

Operating condition : Tx at 2480MHz

SWEEP TABLE : "FCC15.247 HBE PK"

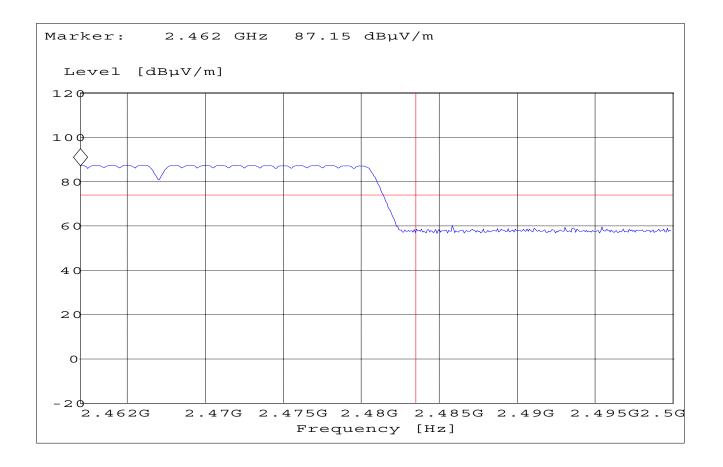
Short Description : FCC15.247 BT High-band-edge

Limit Line : 74dBµV

Start Stop Detector Meas. RBW VBW Transducer

Frequency Frequency Time Bandw.

2.472 GHz 2.5 GHz MaxPeak Coupled 1 MHz 1MHz #326 horn (dBi)





EMISSION LIMITATIONS
Transmitter (Conducted & Radiated)
LIMITS

§ 15.247 (c) (1)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

<u>NOTE</u>: Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.



EMISSION LIMITATIONS - Radiated (Transmitter) 30MHz - 1GHz (This plot is valid for all three channels)

§ 15.247 (c) (1)

SWEEP TABLE: "BT Spuri hi 30-1G"

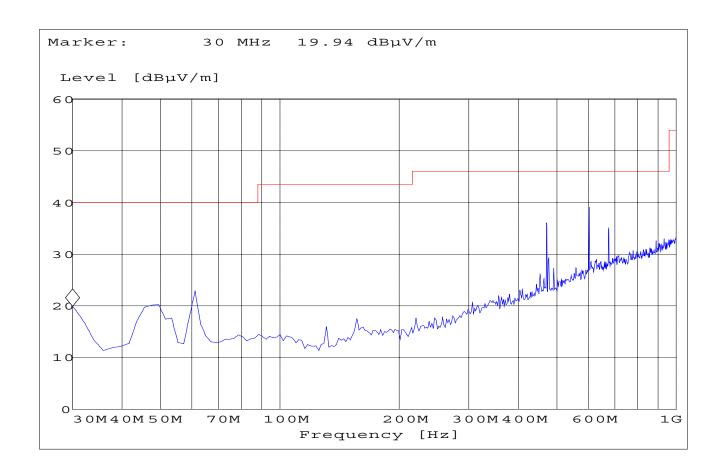
Short Description: "B1 Spuri ni 30-1G"

Short Description: Bluetooth 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

1GHz – 3GHz (This plot is valid for all three channels)

Note: Frequency out of spec. is BT transmitter in hopping mode.

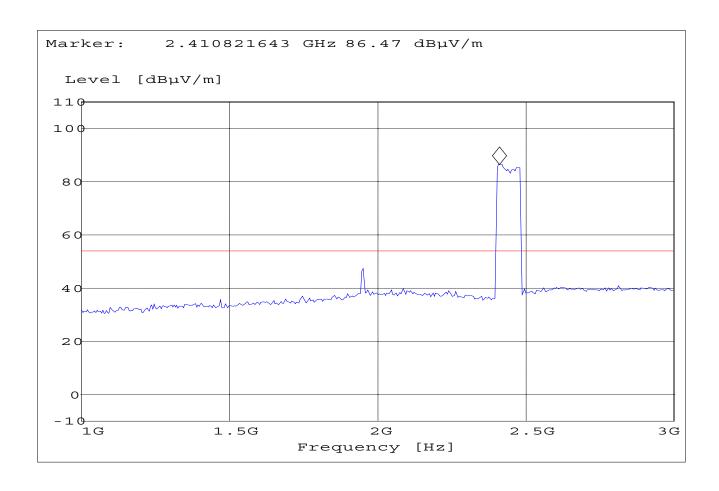
SWEEP TABLE: "BT Spuri hi 1-3G"

Short Description: Bluetooth Spurious 1-3 GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

3GHz – 18GHz (This plot is valid for all three channels)

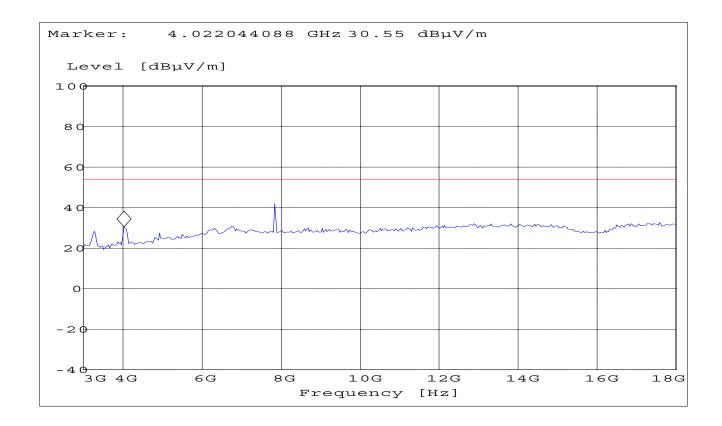
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-18GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

18GHz – 25GHz (This plot is valid for all three channels)

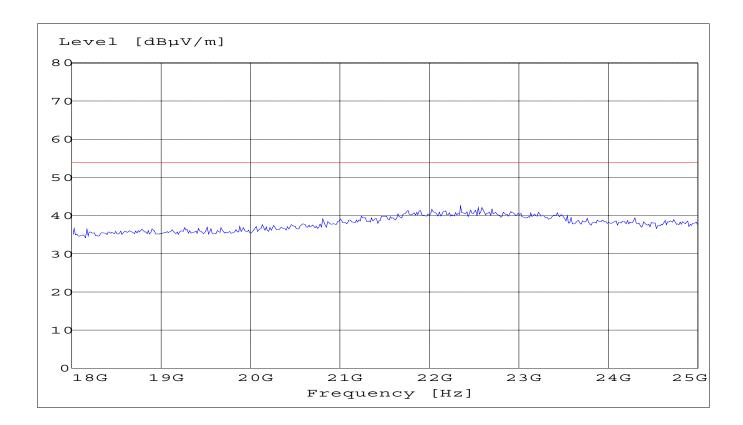
SWEEP TABLE: "BT Spuri hi 18-25G"

Short Description: Bluetooth Spurious 18-25GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18 GHz 25GHz MaxPeak Coupled 1 MHz #141 horn (dBi)



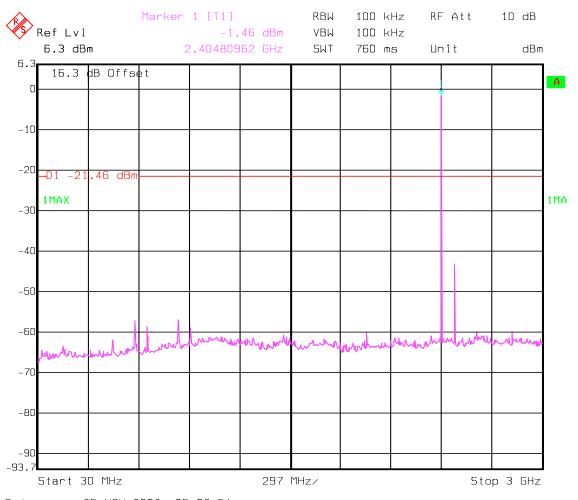


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Lowest Channel(2402MHz): 30MHz - 3GHz

NOTE: The peak above the limit line is the carrier frequency.



Date: 25.NOV.2002 05:08:51

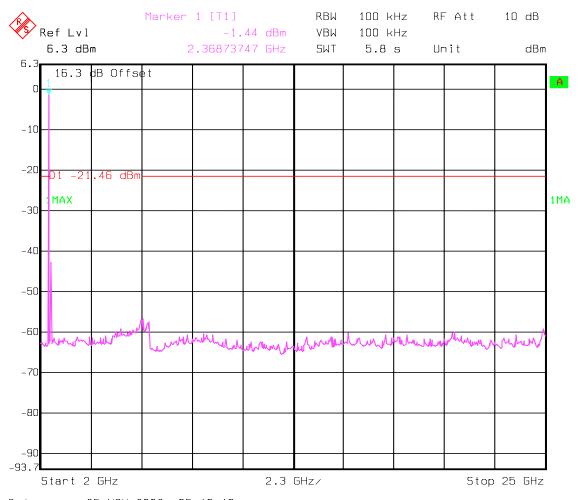


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Lowest Channel(2402MHz): 2GHz - 25GHz

NOTE: The peak above the limit line is the carrier frequency.



Date: 25.NOV.2002 05:10:10

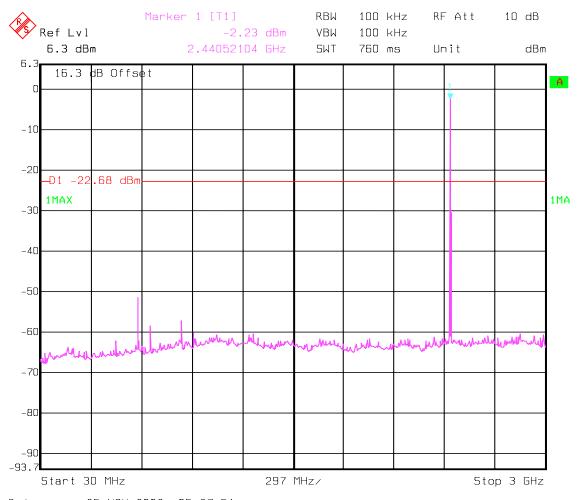


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Mid Channel(2441MHz): 30MHz - 3GHz

NOTE: The peak above the limit line is the carrier frequency.



Date: 25.NOV.2002 05:27:51

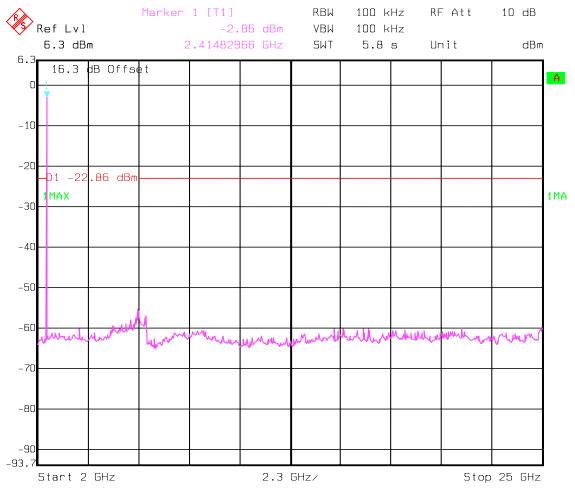


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Mid Channel(2441MHz): 2GHz - 25GHz

NOTE: The peak above the limit line is the carrier frequency.



Date: 25.NOV.2002 05:29:23

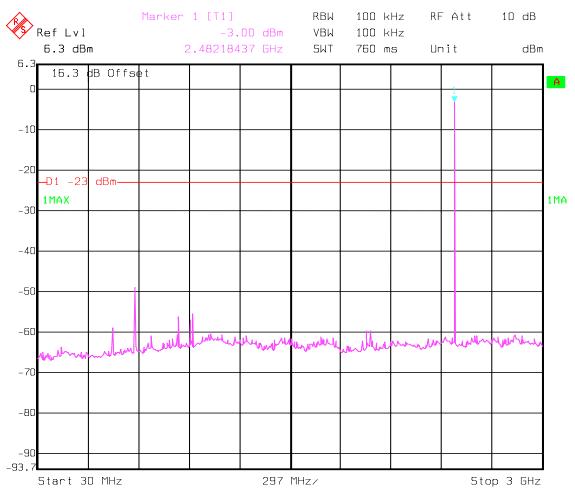


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Highest Channel(2480MHz): 30MHz - 3GHz

NOTE: The peak above the limit line is the carrier frequency.



Date: 25.NOV.2002 05:24:46

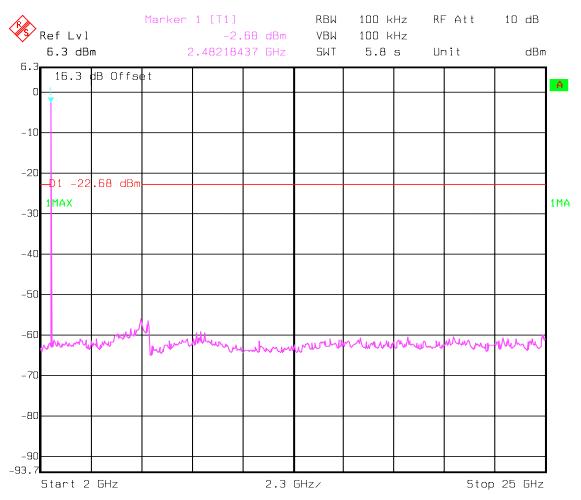


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Highest Channel(2480MHz): 2GHz - 25GHz

NOTE: The peak above the limit line is the carrier frequency.



Date: 25.NOV.2002 05:26:20



CONDUCTED EMISSIONS Measured with AC/DC power adapter

§ 15.107/207

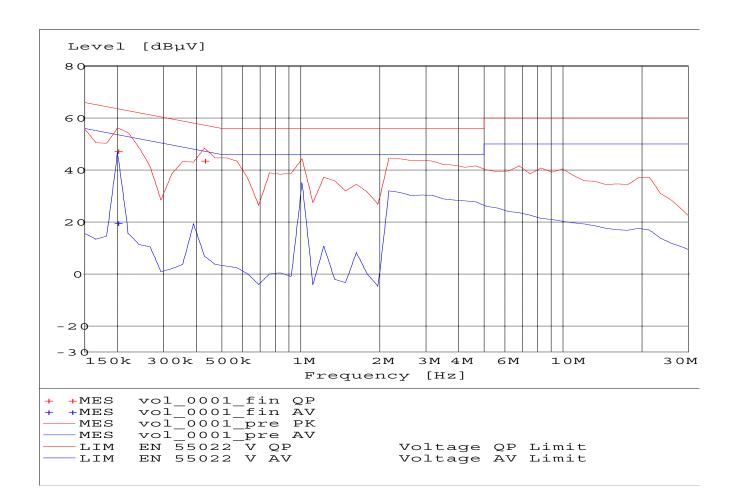
Technical specification: 15.107 / 15.207 (Revised as of August 20, 2002)

Limit

Frequency of Emission (MHz)	Conducted Limit (dBµV)			
	Quasi-Peak	Average		
0.15 - 0.5	66 to 56*	56 to 46*		
0.5 - 5	56	46		
5 – 30	60	50		
* Decreases with logarithm of the frequency				

ANALYZER SETTINGS: RBW = 10KHz

VBW = 10KHz





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MEASUREMENT RES 11/26/02 7:31		0001_f	in QP"					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE		
0.199650 0.427968								
MEASUREMENT RE 11/26/02 7:31		ro1_0001_	fin AV'	,				
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE		
0 199650	19 90	0 0	54	33 8	1			



RECEIVER SPURIOUS RADIATION

§ 15.209

Limits

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
above 960	500	3

NOTE:

The radiated emissions were done with different settings, using the relevant pre-amplifiers forthe relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 18 and 25 GHz very short cable connections to the antenna was used to minimize the noise level.



RECEIVER SPURIOUS RADIATION § 15.209

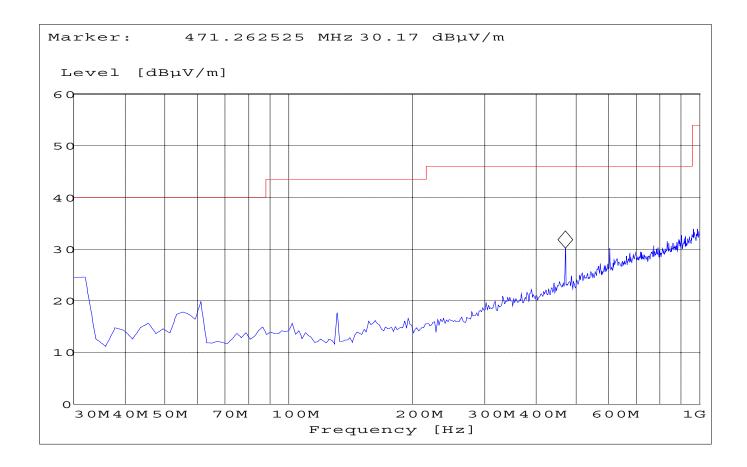
30MHz – 1GHz

SWEEP TABLE: "BT Spuri hi 30-1G"
Short Description: Bluetooth 30MHz-1GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time VBW

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 3141-#1186





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RECEIVER SPURIOUS RADIATION

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1GHz - 3GHz

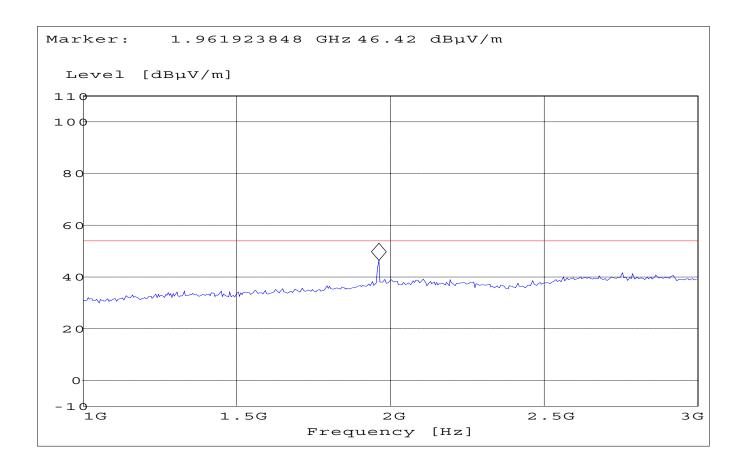
"BT Spuri hi 1-3G" SWEEP TABLE:

Short Description: Bluetooth Spurious 1-3 GHz

Detector Meas. RBW Transducer Start Stop

Frequency Frequency Time Bandw. **VBW**

1.0 GHz 3.0 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





RECEIVER SPURIOUS RADIATION § 15.209

3GHz – 18GHz

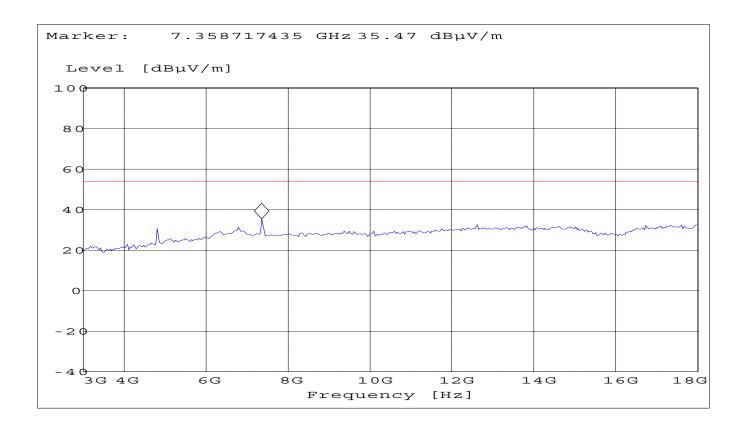
SWEEP TABLE: "BT Spuri hi 3-18G"

Short Description: Bluetooth Spurious 3-18GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

3.0 GHz 18 GHz MaxPeak Coupled 1 MHz #326 horn (dBi)





RECEIVER SPURIOUS RADIATION § 15.209

18GHz - 25GHz

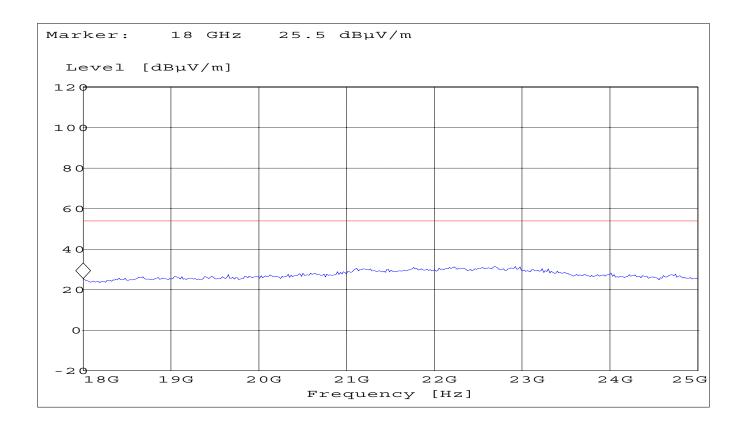
SWEEP TABLE: "BT Spuri hi 18-25G"

Short Description: Bluetooth Spurious 18-25GHz

Start Stop Detector Meas. RBW Transducer

Frequency Frequency Time Bandw. VBW

18 GHz 25 GHz MaxPeak Coupled 1 MHz #141 horn (dBi)





TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

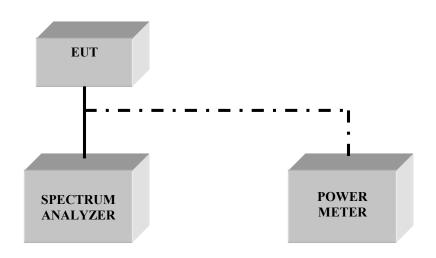
No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	826880/010
03	Signal Generator	SMY02	Rohde & Schwarz	836878/011
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02
05	Power Amlifier	250W1000	Amplifier Research	300031
06	Biconilog Antenna	3141	EMCO	0005-1186
07	Horn Antenna	SAS-200/571	AH Systems	325
08	Power Splitter	11667B	Hewlett Packard	645348
09	Climatic Chamber	VT4004	Votch	G1115
10	Pre-Amplifier	JS4-00102600	Miteq	00616
11	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807
12	2-3GHz band reject filter	BRM50701	Microtronics	NA
13	Digital Radio Comm. Tester	CMD-55	Rohde & Schwarz	847958/008



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BLOCK DIAGRAMS Conducted Testing





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Radiated Testing

ANECHOIC CHAMBER

