



# FCC Test Report

Test report no.: EMC\_735FCC15.247\_2004\_S66

FCC Part 15.247 for FHSS systems / CANADA RSS-210

Model: S66

FCC ID: PWX-S66

IC: 267E-S66



**TTI-P-G 081/94-A0**

Accredited according to **ISO/IEC 17025**



**Bluetooth Qualification  
Test Facility  
(BQTF)**



FCC listed # 101450

IC recognized # 3925

## **CETECOM Inc.**

411 Dixon Landing Road ♦ Milpitas, CA 95035 ♦ U.S.A.

Phone: + 1 (408) 586 6200 ♦ Fax: + 1 (408) 586 6299 ♦ E-mail: [info@cetecomusa.com](mailto:info@cetecomusa.com) ♦ <http://www.cetecom.com>

CETECOM Inc. is a Delaware Corporation with Corporation number: 2113686

Board of Directors: Dr. Harald Ansorge, Dr. Klaus Matkey, Hans Peter May

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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 generalizations 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: Harpreet Sidhu**

**1.2 Testing laboratory**  
**CETECOM Inc.**  
**411 Dixon Landing Road, Milpitas, CA-95035, USA**  
**Phone: +1 408 586 6200 Fax: +1 408 586 6299**  
**E-mail: [lothar.schmidt@cetecomusa.com](mailto:lothar.schmidt@cetecomusa.com)**  
**Internet: [www.cetecom.com](http://www.cetecom.com)**

**1.3 Details of applicant**

**Name** : SIEMENS ICM  
**Street** : 16745 West Bernardo Drive  
**City / Zip Code** : San Diego CA 92127  
**Country** : U.S.A  
**Contact** : Kevin Wolentarski  
**Telephone** : +1 858-521-3352  
**Tele-fax** : +1 858-521-3105  
**e-mail** : [kevin.wolentarski@siemens.com](mailto:kevin.wolentarski@siemens.com)

**1.4 Application details**

Date of receipt test item : 2004-09-12  
Date of test : 2004-09-28

**1.5 Test item**

Manufacturer : SIEMENS  
Street Address : Suedstr. 9  
City / Zip Code : 47475 Kamp-Lintfort  
Country : Germany  
Marketing Name : S66  
Model No. : **S66**  
**Description** : **GSM 1900 Mobile Phone with BT**  
FCC-ID : PWX-S66  
IC ID : 267E-S66

**Additional information**

Test Sample for BT : IMEI: 00-1002-00-048376-3  
Frequency : 2402MHz – 2480MHz for BT  
Type of modulation : GFSK  
Number of channels : 79  
Antenna : Internal  
Power supply : Battery or Charger (AC Adaptor)  
Output power : -0.76dBm (0.84mW) max. conducted peak power  
Extreme vol. Limits : 3.6VDC to 4.5VDC (nominal: 3.7VDC)  
Extreme temp. Tolerance : -30°C to +50°C

**1.6 Test standards: FCC Part 15 §15.247 (DA00-705) / RSS 210**

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

**2 Technical test****2.1 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests  
Performed

Final Verdict:  
(only “passed” if all single measurements are “passed”)

**Passed**

**Technical responsibility for area of testing:**

2004-09-30    EMC & Radio    Lothar Schmidt (Manager)



Date

Section

Name

Signature

**Responsible for test report and project leader:**

2004-09-30    EMC & Radio    Harpreet Sidhu (EMC Engineer)



Date

Section

Name

Signature

## **2.2 Test report**

### **TEST REPORT**

**Test report no.: EMC\_735FCC15.247\_2004\_S66**

**TEST REPORT REFERENCE**

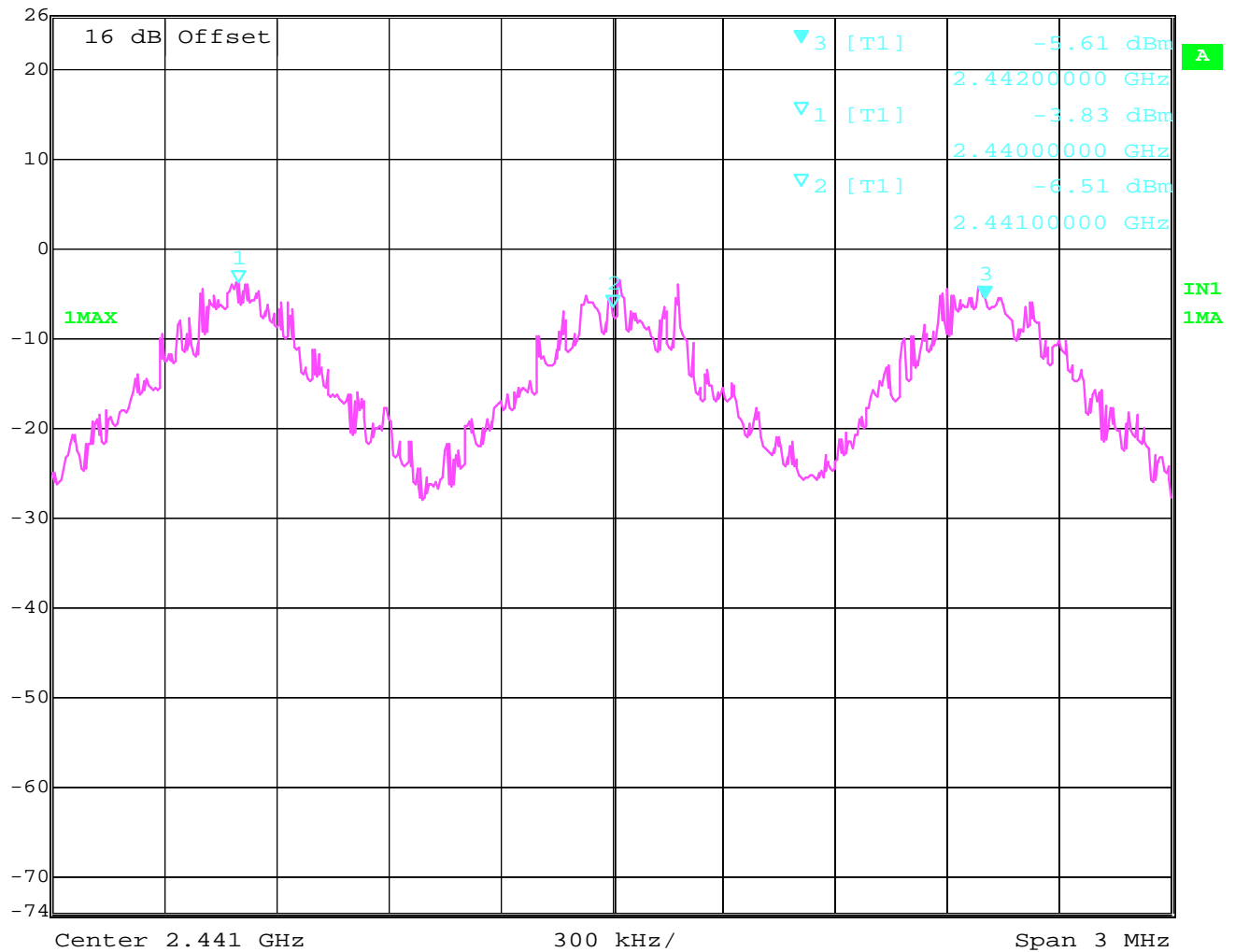
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## CARRIER FREQUENCY SEPERATION

§15.247(a)



Marker 3 [T1] RBW 30 kHz RF Att 20 dB  
 Ref Lvl -5.61 dBm VBW 100 kHz  
 26 dBm 2.44200000 GHz SWT 8.5 ms Unit dBm



Date: 28.SEP.2004 20:59:53

**NUMBER OF HOPPING CHANNELS**

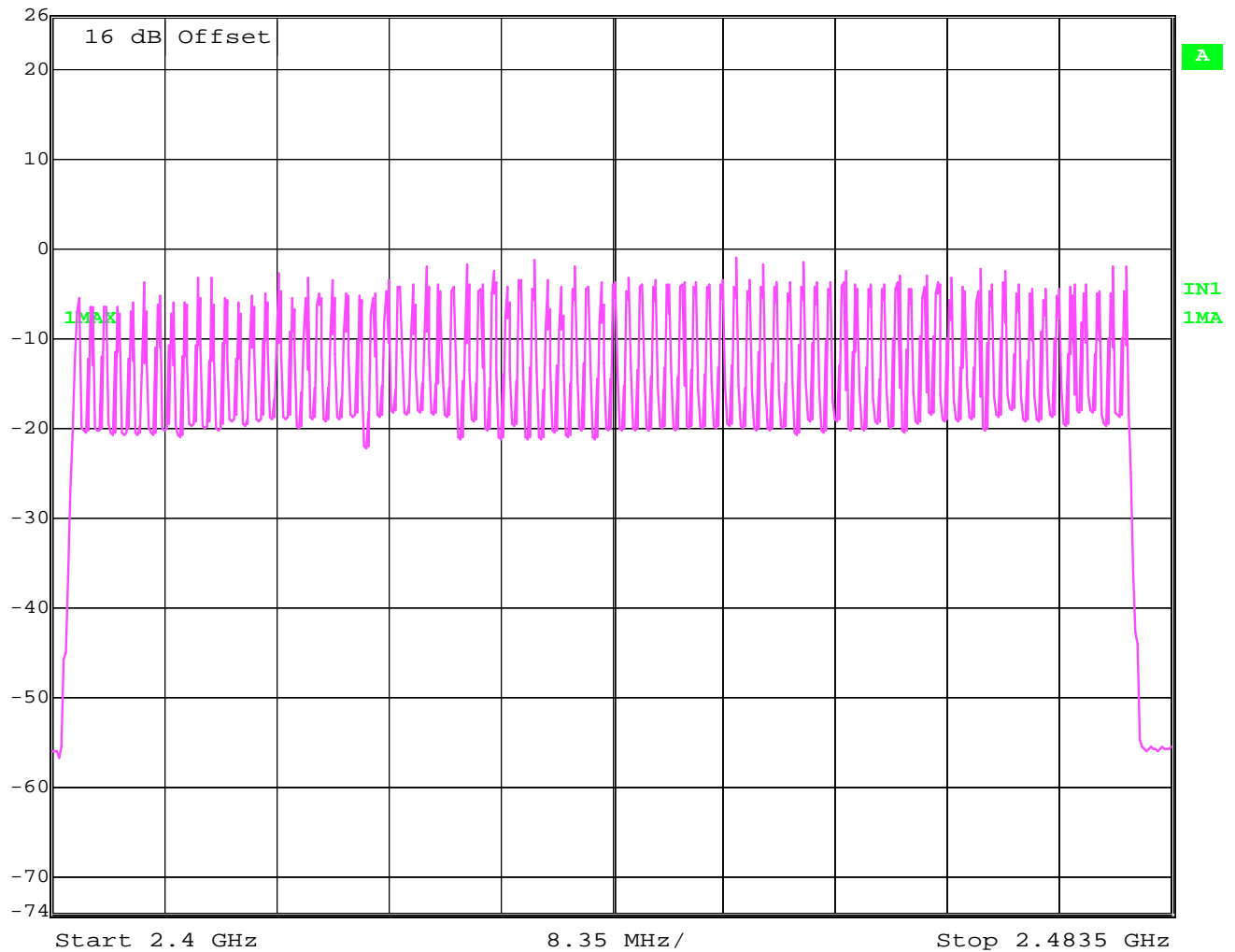
**§15.247(a)**

**The number of hopping channels is 79**



Ref Lvl  
26 dBm

RBW 30 kHz RF Att 20 dB  
VBW 100 kHz  
SWT 235 ms Unit dBm



Date: 28.SEP.2004 21:08:18



## TIME OF OCCUPANCY (DWELL TIME)

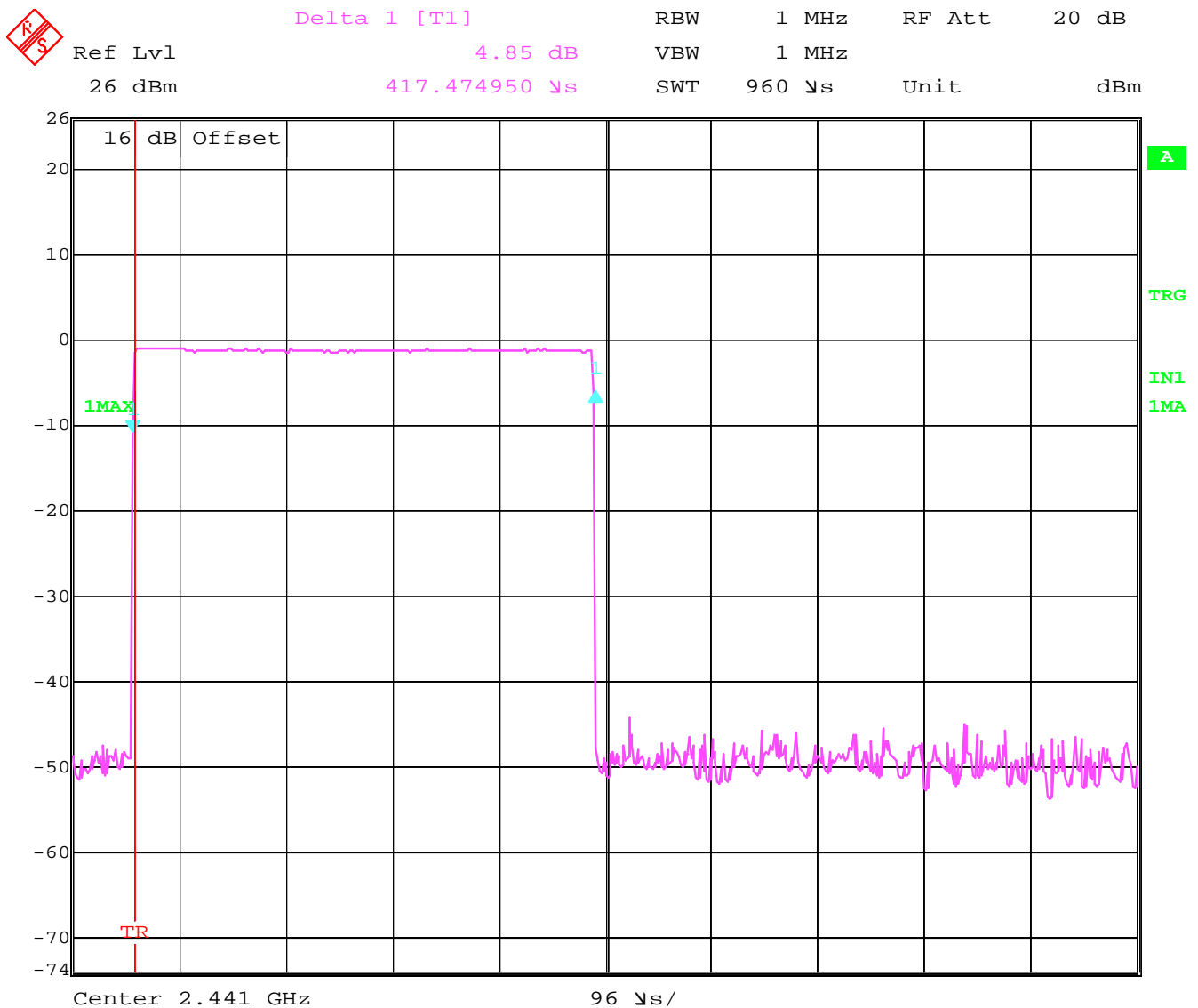
§15.247(a)

### 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 31.6 seconds you have 320.108 times of appearance.

Each Tx-time per appearance is 417.47µs.

So we have  $320.108 * 417.47\mu s = 133.63ms$  per 31.6 seconds.



Date: 28.SEP.2004 21:12:48

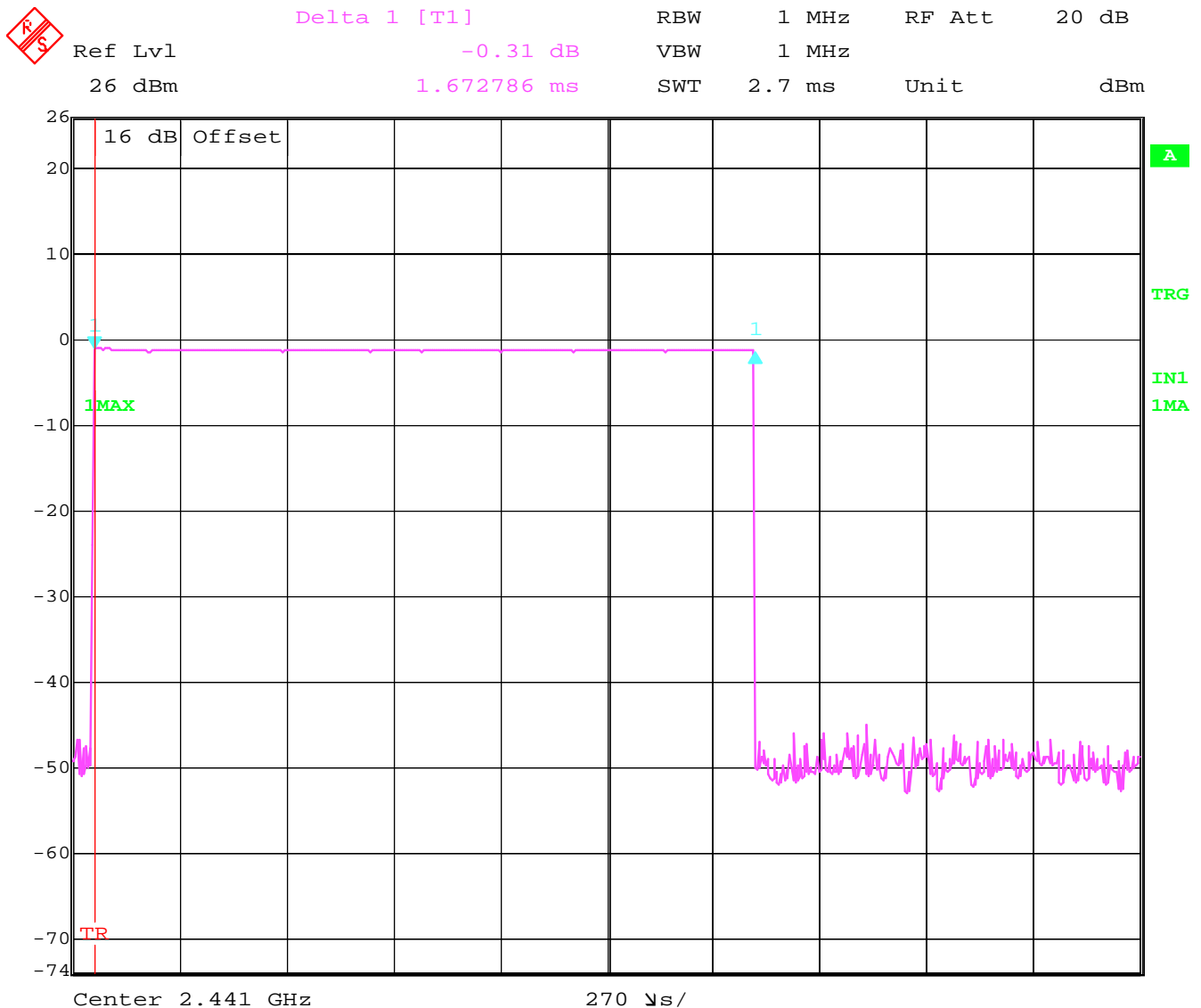
## TIME OF OCCUPANCY (DWELL TIME) DH3 – Packet

§15.247(a)

A DH3 Packets need 3 time slots for transmit and 1 for receiving, 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 31.6 seconds you have 161.16 times of appearance.

Each Tx-time per appearance is 1.67ms.

So we have  $161.16 * 1.67\text{ms} = 269.13\text{ms}$  per 31.6 seconds.



Date: 28.SEP.2004 21:13:55

Date: 28.SEP.2004 21:16:28

**SPECTRUM BANDWIDTH OF FHSS SYSTEM**  
**20 dB bandwidth****§15.247(a)**

TEST CONDITIONS		20 dB BANDWIDTH (kHz)		
Frequency (MHz)		2402	2441	2480
$T_{nom}(23)^{\circ}C$	$V_{nom}$	921.84	925.85	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 bandwidth shall be at maximum 1000 KHz**

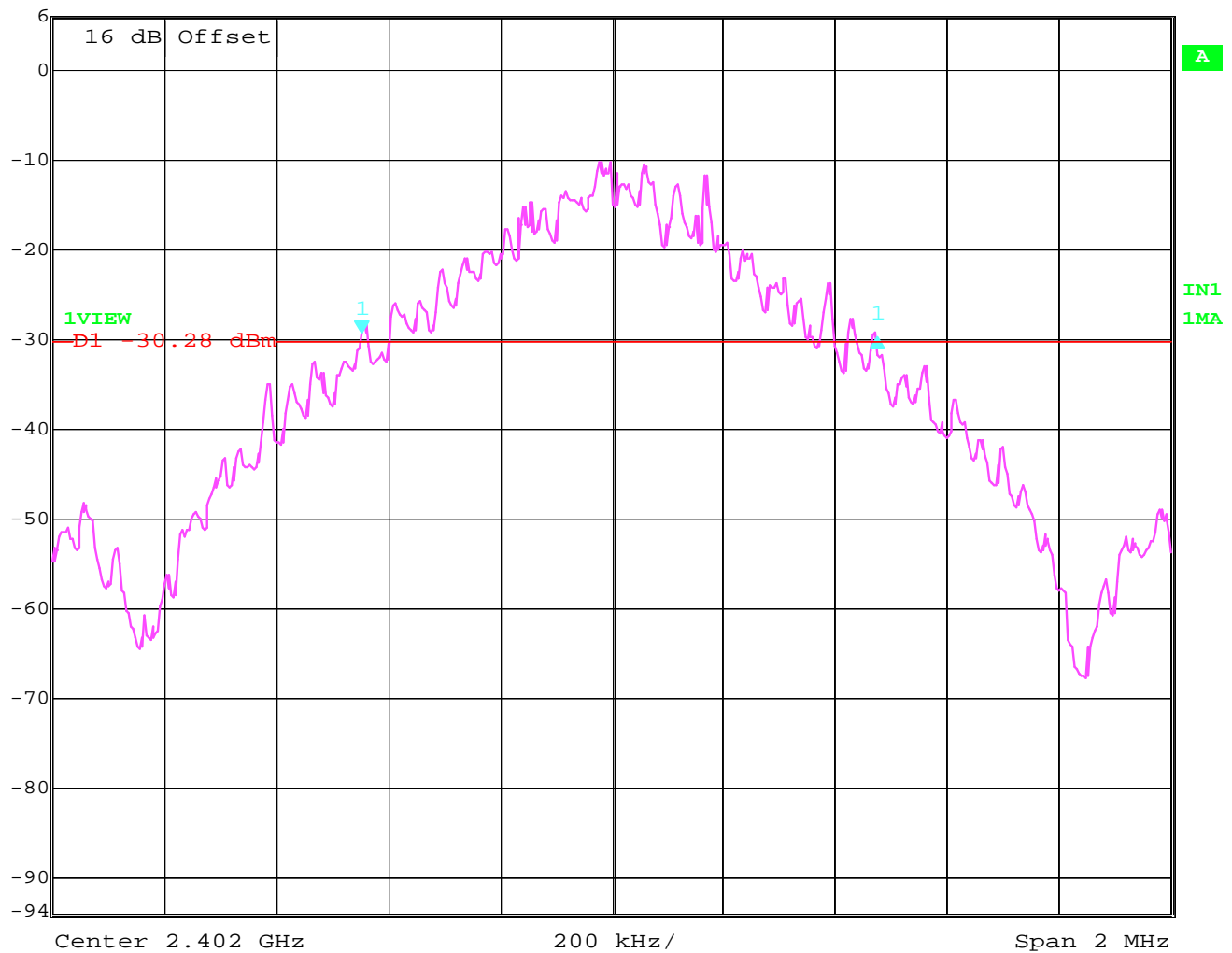
## SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

Lowest Channel: 2402MHz



Ref Lvl	Delta 1 [T1]	RBW	10 kHz	RF Att	10 dB
6 dBm	-0.51 dB	VBW	10 kHz		
	921.84368737 kHz	SWT	50 ms	Unit	dBm



Date: 28.SEP.2004 20:45:20

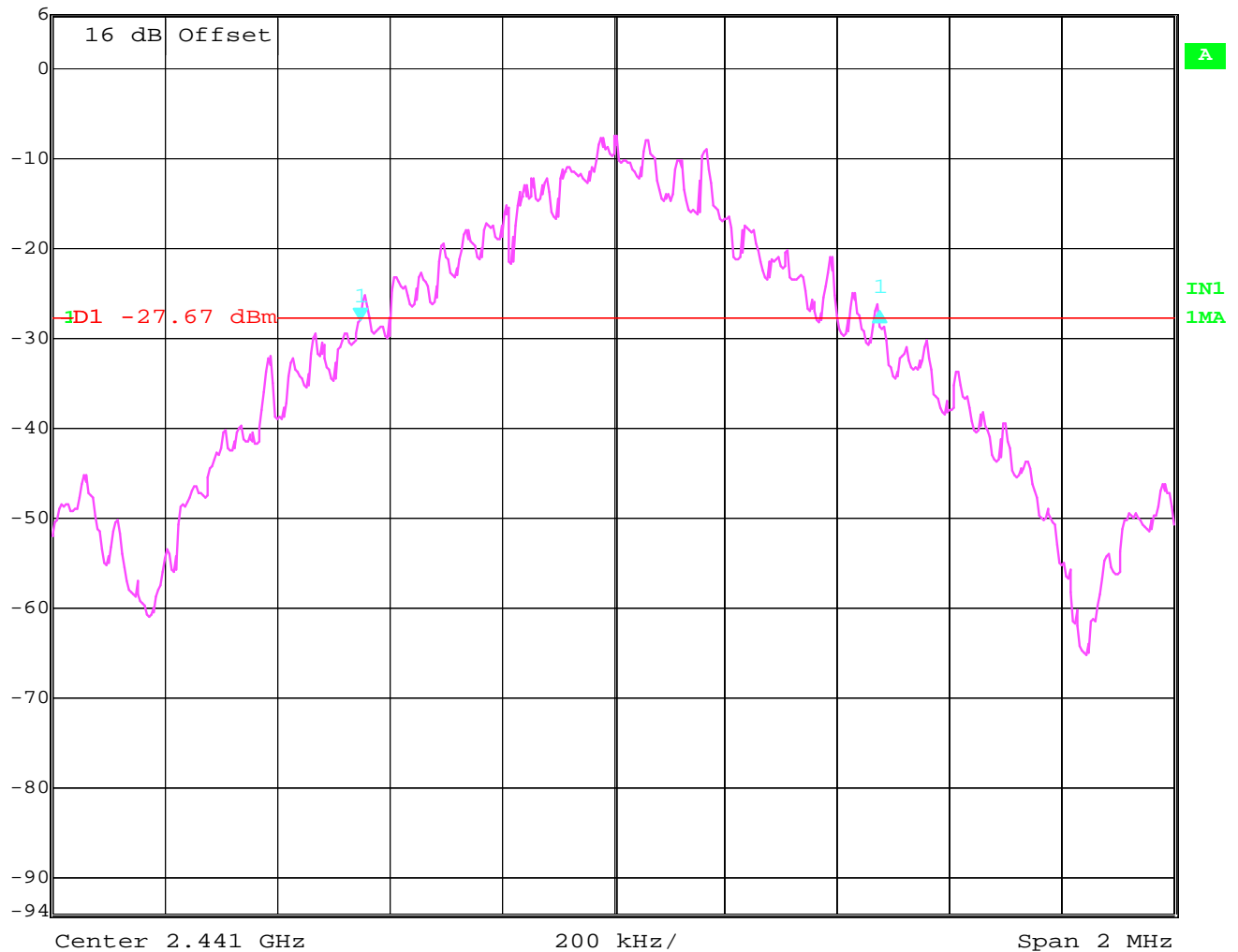
## SPECTRUM BANDWIDTH OF FHSS SYSTEM 20 dB bandwidth

§15.247(a)

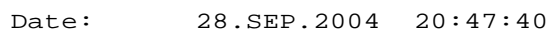
Mid Channel: 2441MHz



Ref Lvl	Delta 1 [T1]	RBW	10 kHz	RF Att	10 dB
6 dBm	1.00 dB	VBW	10 kHz		
	925.85170340 kHz	SWT	50 ms	Unit	dBm



Date: 28.SEP.2004 20:46:38



**MAXIMUM PEAK OUTPUT POWER**  
**(Conducted)**

§ 15.247 (b) (1)

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2402	2441	2480
T <sub>nom</sub> (23)°C	V <sub>nom</sub>	-3.50	-0.76	-1.41
Measurement uncertainty		±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 <sub>nom</sub> (23)°C	V <sub>nom</sub>	-3.84	-2.12	-1.08
Measurement uncertainty		±0.5dBm		

RBW/VBW: 3 MHz

**LIMIT****SUBCLAUSE § 15.247 (b) (1)**

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt

# PEAK OUTPUT POWER (RADIATED)

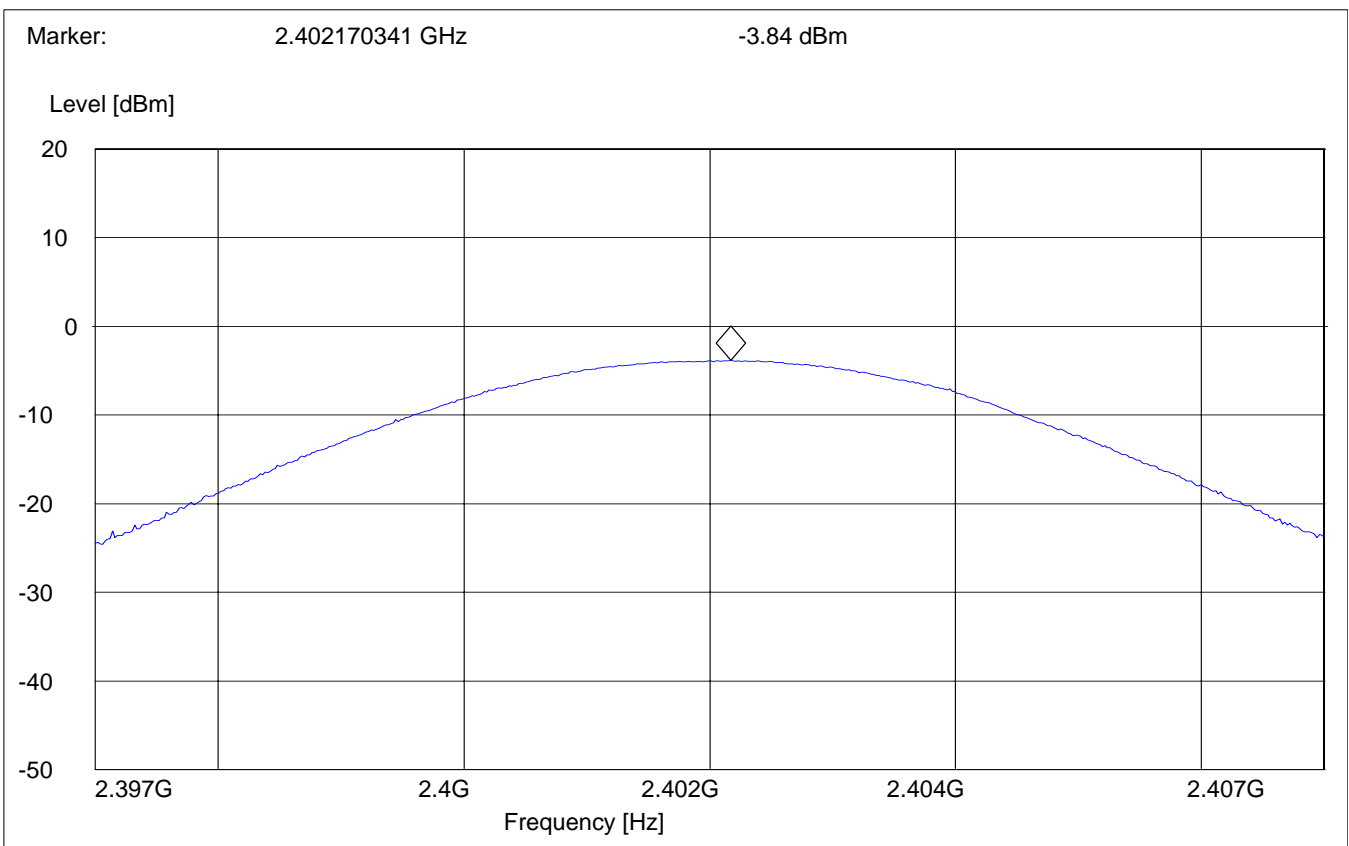
§15.247 (b) (1)

## 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)

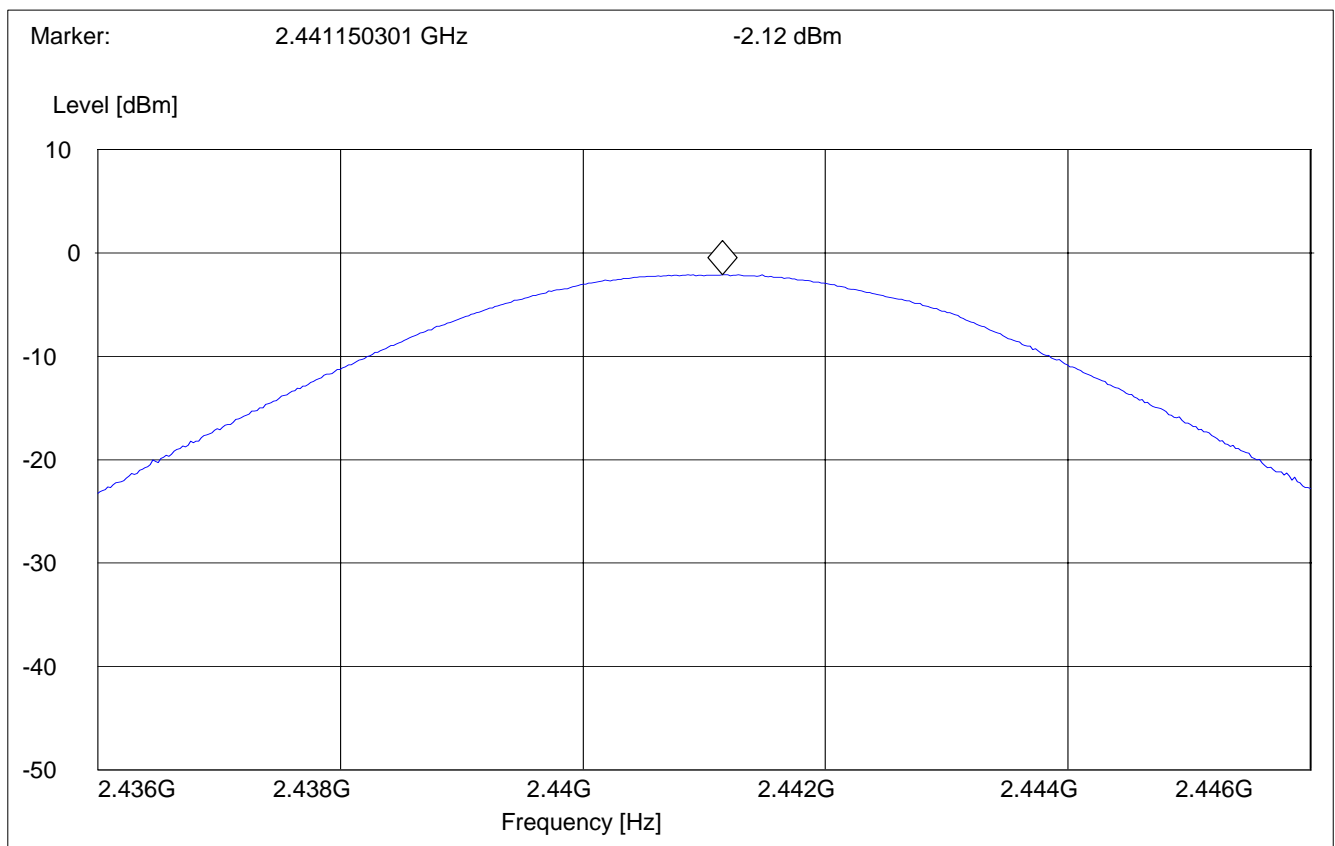
§15.247 (b) (1)

## Mid Channel: 2441MHz

SWEEP TABLE: "EIRP BT Mid channel"

Short Description: EIRP Bluetooth channel-2441MHz

Start	Stop	Detector	Meas.	IF
Frequency	Frequency		Time	BW
2.436GHz	2.446GHz	MaxPeak	Coupled	3 MHz



# PEAK OUTPUT POWER (RADIATED)

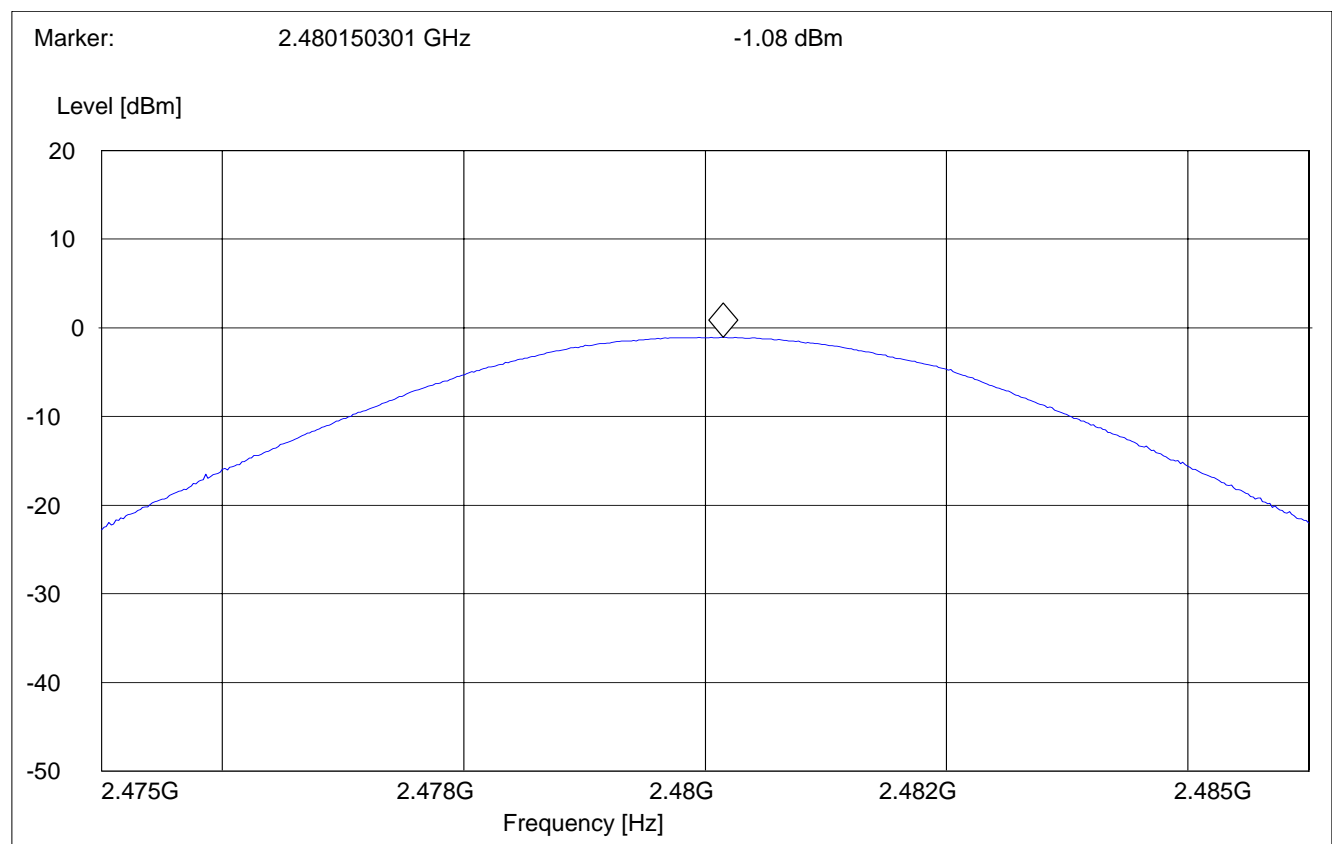
§15.247 (b) (1)

## 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)

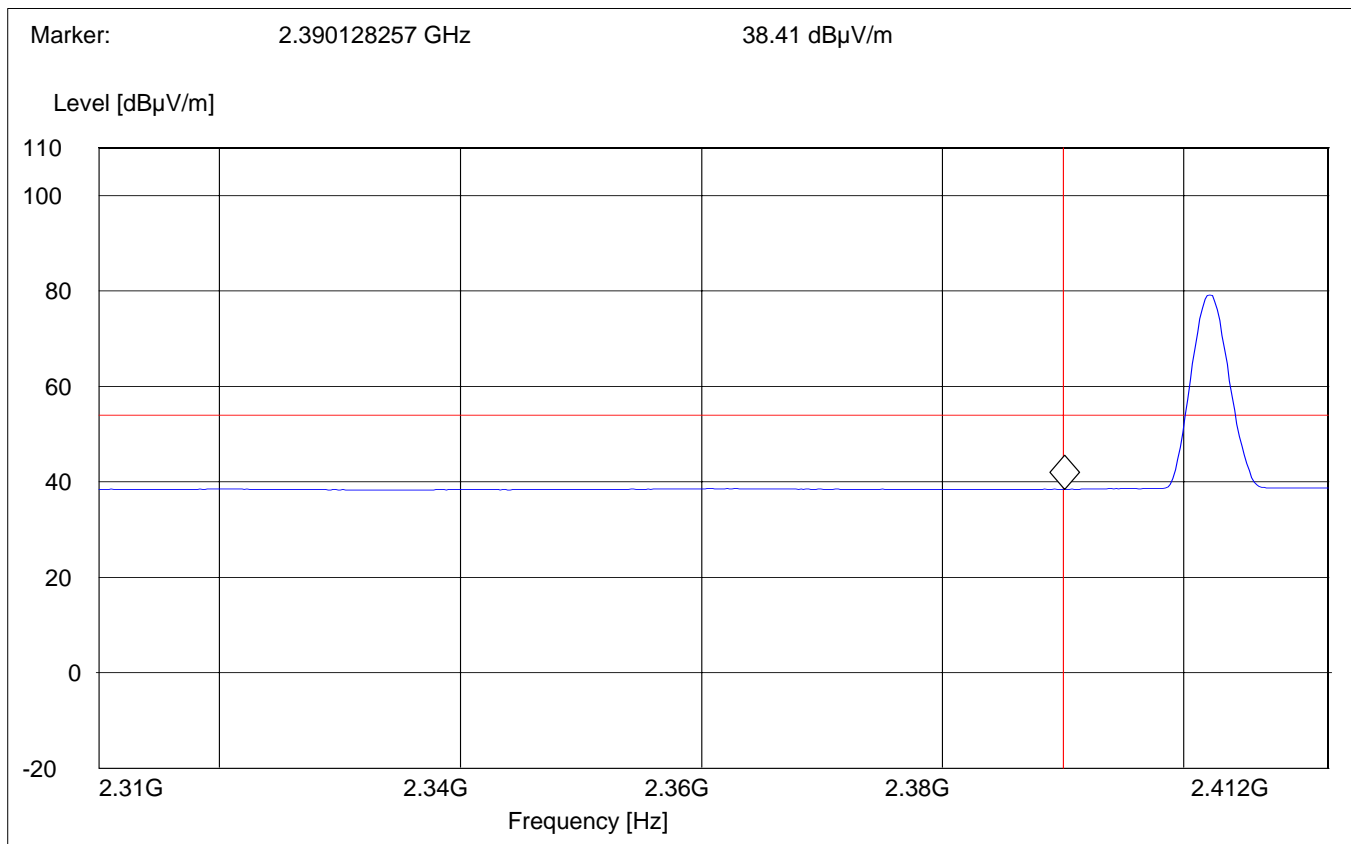
## Low frequency section (spurious in the restricted band 2310 – 2390 MHz)

### Average Measurement

(This plot is valid for both Hopping ON &amp; OFF)

Operating condition : Tx at 2402MHz  
SWEEP TABLE : "FCC15.247 LBE\_AVG"  
Short Description : FCC15.247 BT Low-band-edge  
Limit Line : 54dBμV

Start Frequency	Stop Frequency	Detector Time	Meas. Bandw.	RBW	VBW	Transducer
2.31 GHz	2.412 GHz	MaxPeak	Coupled	1 MHz	10Hz	#326 horn (dBi)



# BAND EDGE COMPLIANCE

§15.247 (c)

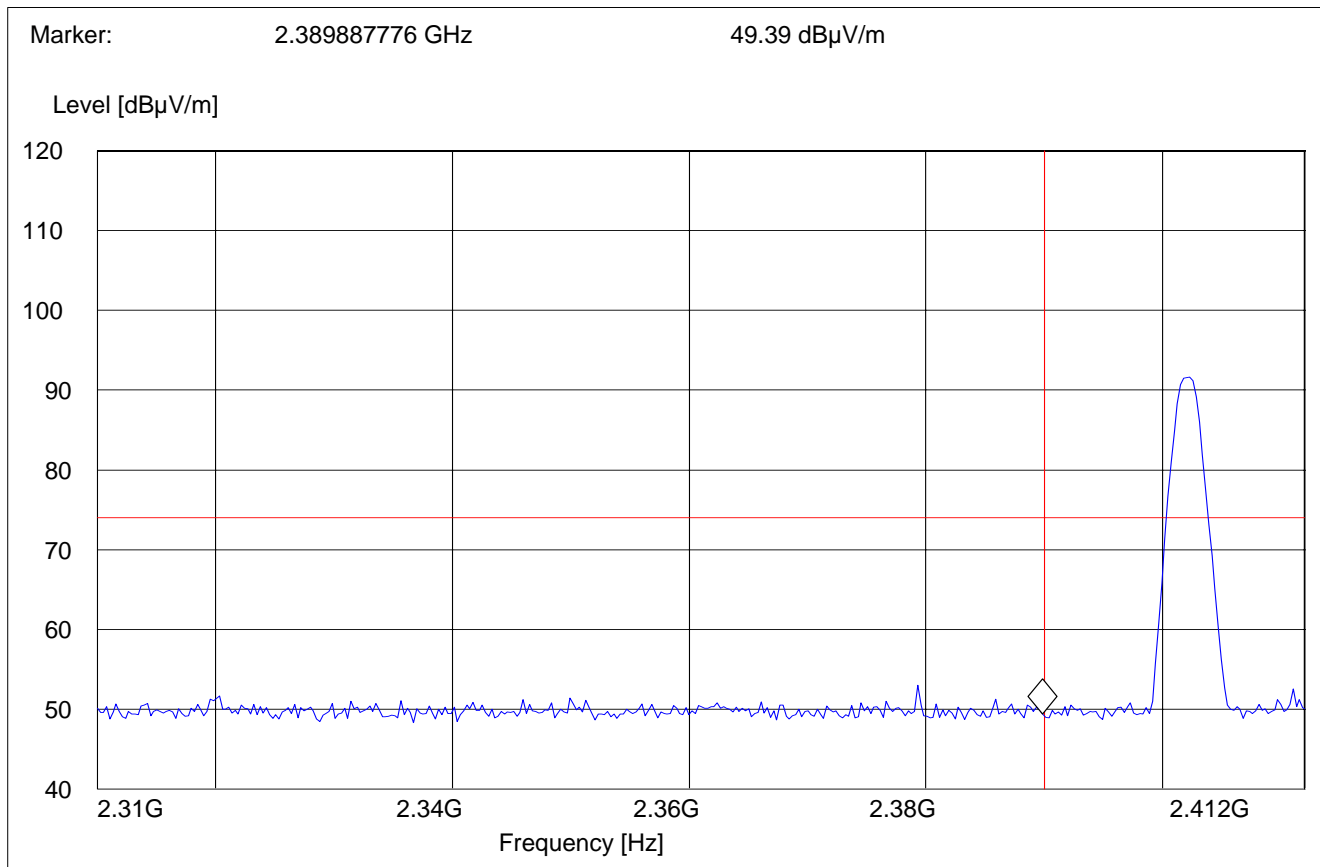
Low frequency section (spurious in the restricted band 2310 – 2390 MHz)

## Peak Measurement

(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 Frequency	Stop Frequency	Detector Time	Meas. Bandw.	RBW	VBW	Transducer
2.31 GHz	2.412 GHz	MaxPeak	Coupled	1 MHz	1MHz	#326 horn (dBi)



## BAND EDGE COMPLIANCE

§15.247 (c)

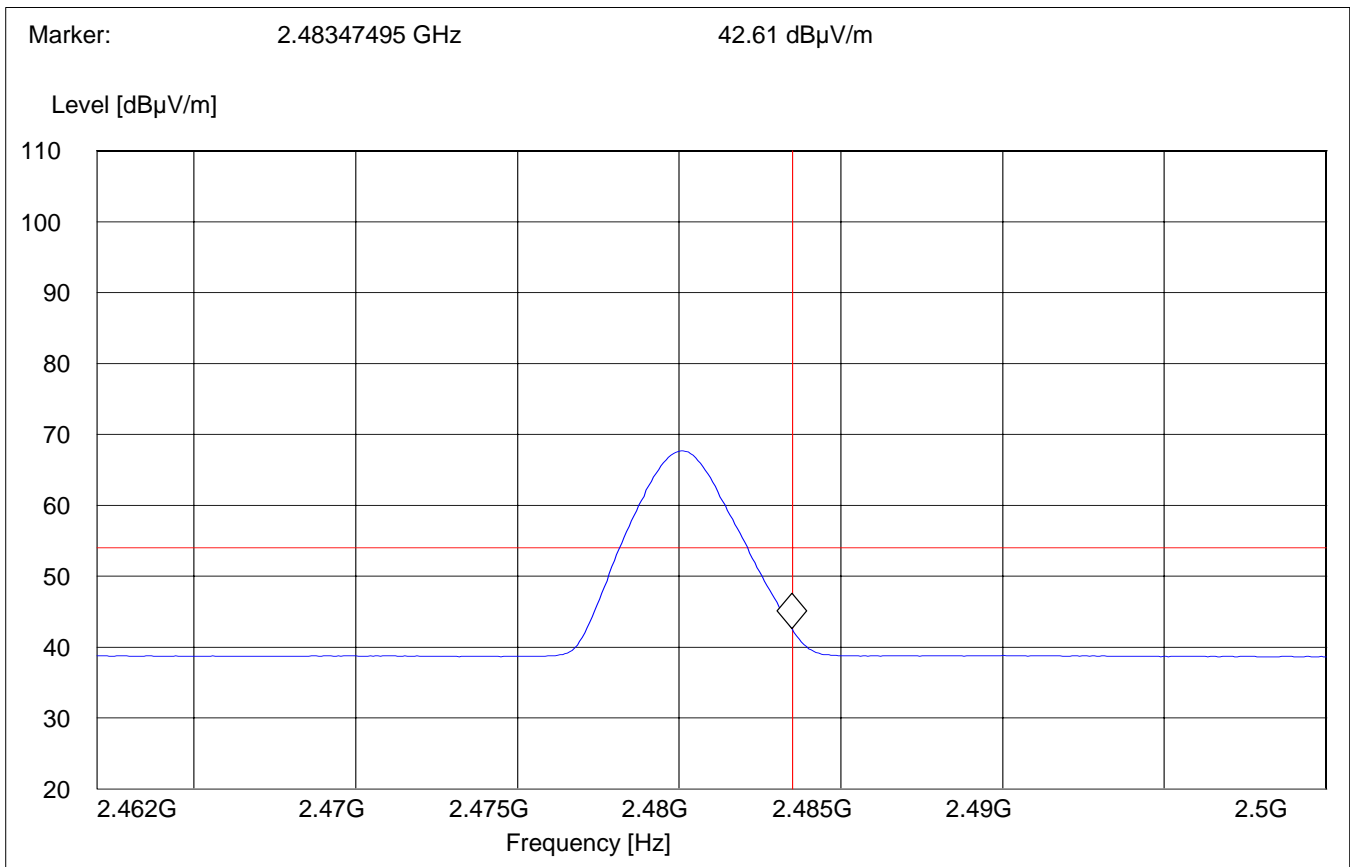
### High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)

#### Average Measurement

(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 : 54dB $\mu$ V

Start Frequency	Stop Frequency	Detector Time	Meas. Bandw.	RBW	VBW	Transducer
2.462 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	10Hz	#326 horn (dBi)



# BAND EDGE COMPLIANCE

§15.247 (c)

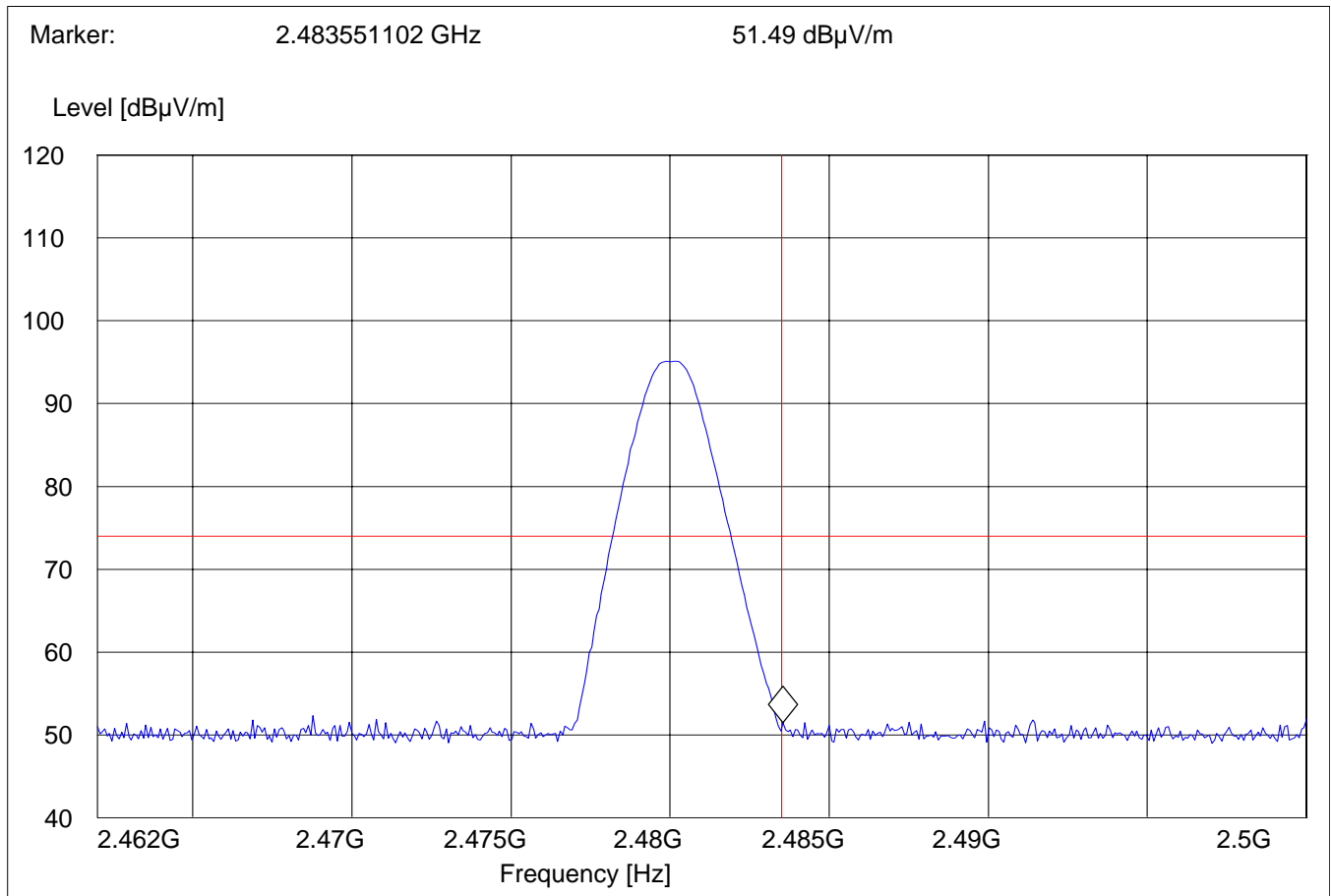
**High frequency section (spurious in the restricted band 2483.5 – 2500 MHz)**

## Peak Measurement

**(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 Frequency	Stop Frequency	Detector Time	Meas. Bandw.	RBW	VBW	Transducer
2.462 GHz	2.5 GHz	MaxPeak	Coupled	1 MHz	1MHz	#326 horn (dBi)





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**EMISSION LIMITATIONS**  
**Transmitter (Conducted)**  
**LIMITS****§ 15.247 (c) (1)**

<p>In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions that fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).</p>
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**NOTE:** Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.

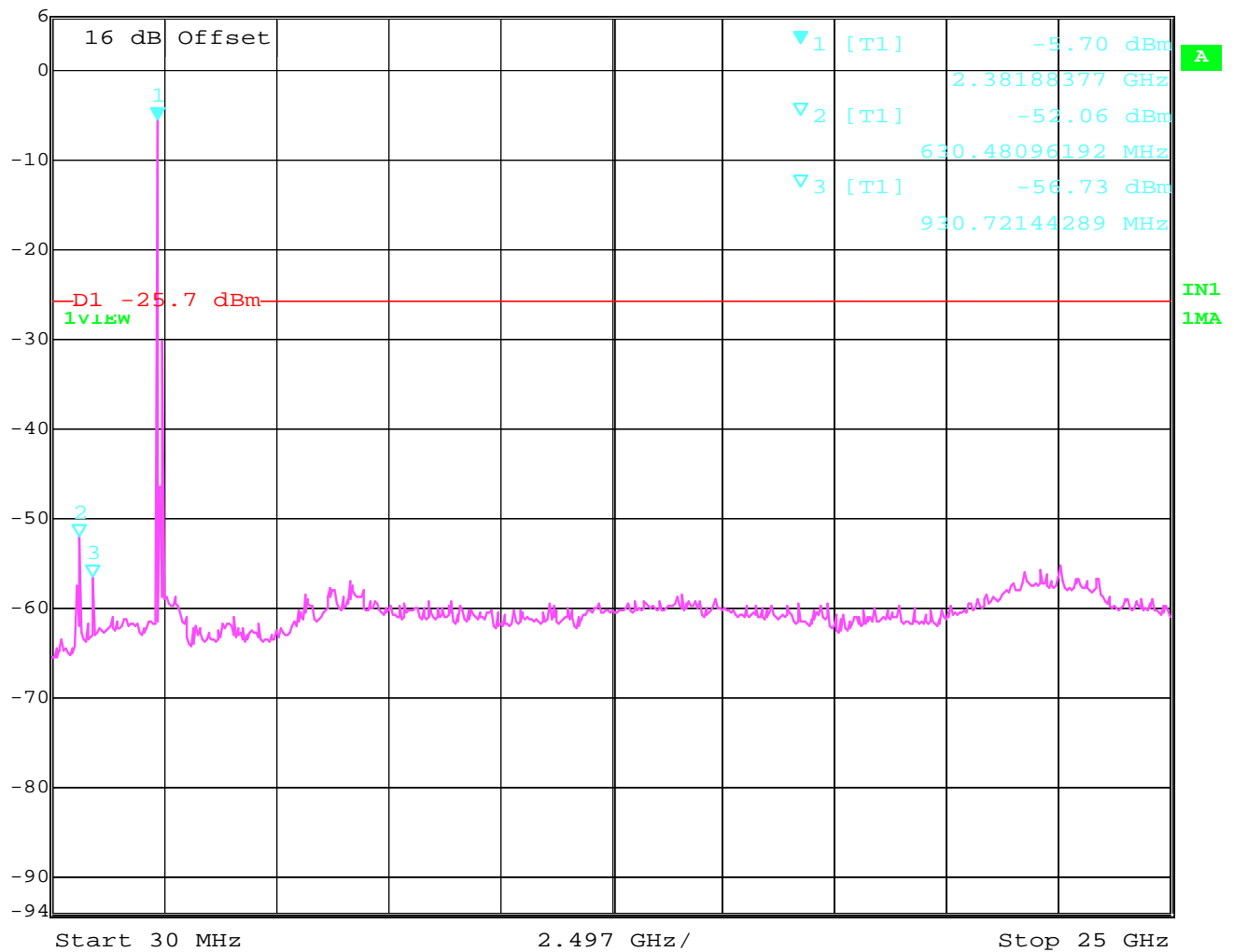
## EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Lowest Channel (2402MHz): 30MHz - 25GHz



Ref Lvl 6 dBm  
Marker 1 [T1] -5.70 dBm  
2.38188377 GHz  
RBW 100 kHz  
VBW 100 kHz  
RF Att 10 dB  
SWT 6.4 s  
Unit dBm



Date: 28.SEP.2004 20:50:02

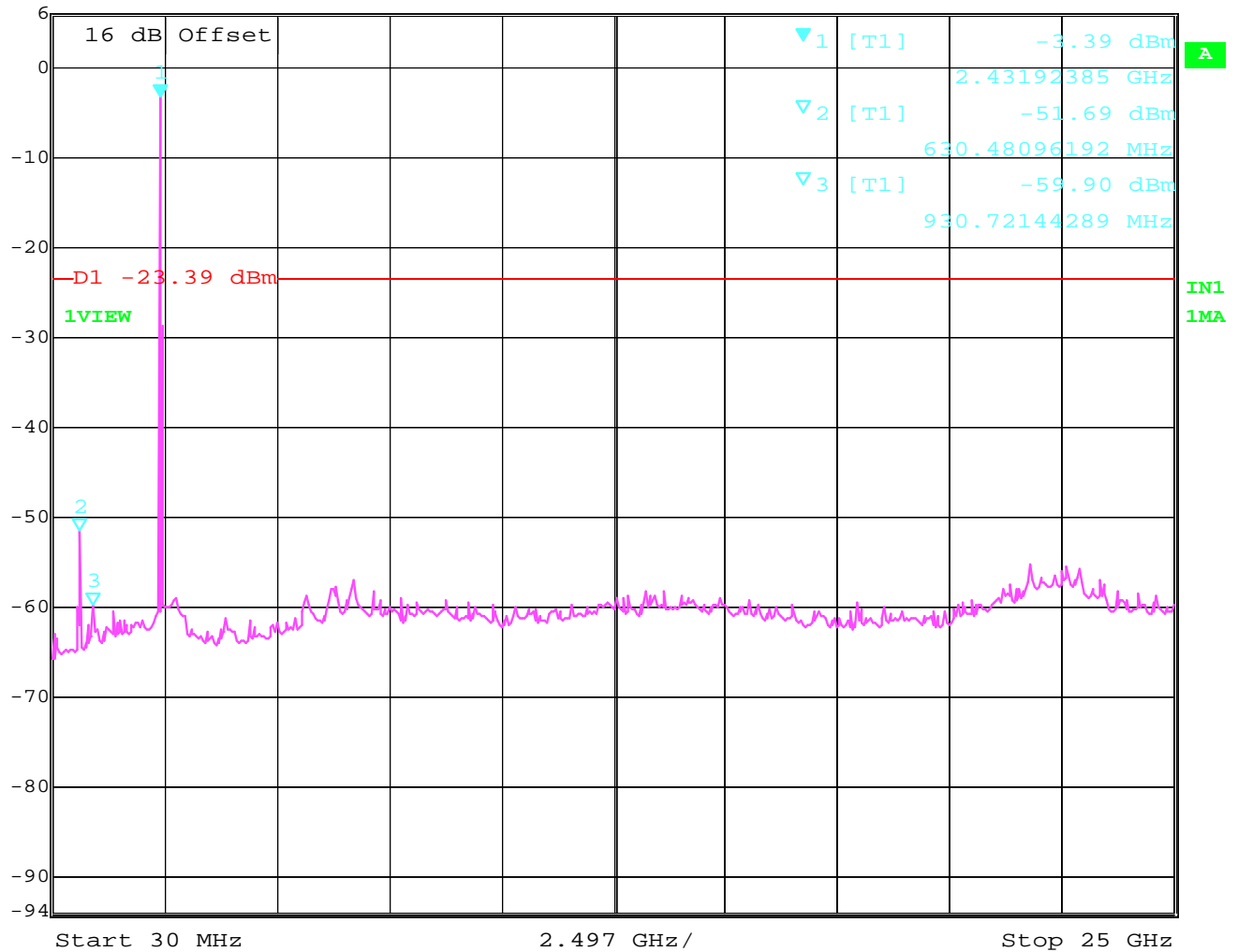
## EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Mid Channel (2441MHz): 30MHz - 25GHz



Marker 1 [T1] RBW 100 kHz RF Att 10 dB  
 Ref Lvl -3.39 dBm VBW 100 kHz  
 6 dBm 2.43192385 GHz SWT 6.4 s Unit dBm



Date: 28.SEP.2004 20:50:48

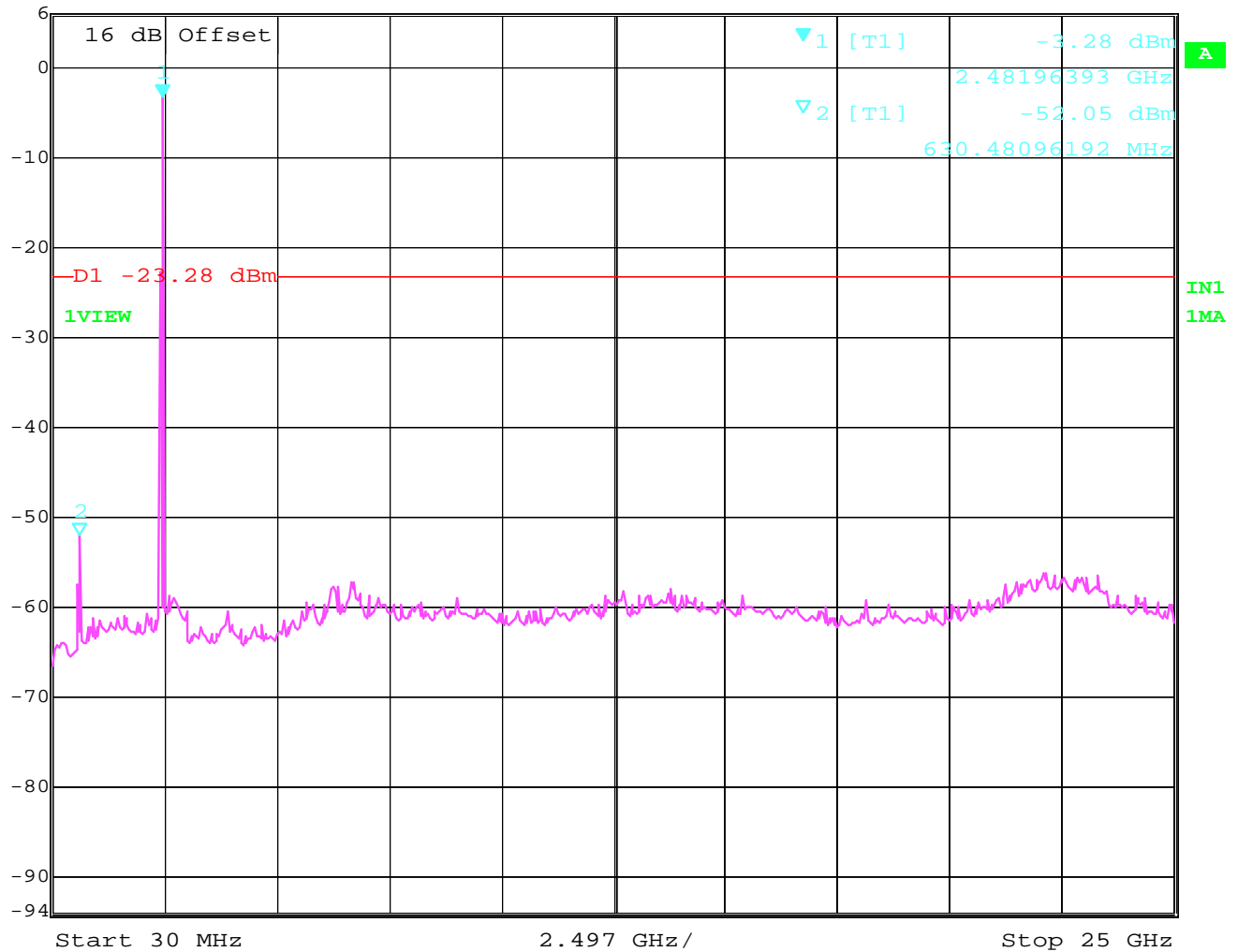
## EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Highest Channel (2480MHz): 30MHz - 25GHz



Marker 1 [T1] RBW 100 kHz RF Att 10 dB  
 Ref Lvl -3.28 dBm VBW 100 kHz  
 6 dBm 2.48196393 GHz SWT 6.4 s Unit dBm



Date: 28.SEP.2004 20:51:54

**EMISSION LIMITATIONS**  
**Transmitter (Radiated)**

§ 15.247 (c) (1)

**LIMITS**

In any 100 kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions that fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

**NOTE:**

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 26.5 GHz very short cable connections to the antenna was used to minimize the noise level.
2. Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.
3. All measurements are done in peak mode unless specified with plots.

**Results for the radiated measurements below 30MHz according § 15.33**

Frequency	Measured values	Remarks
9KHz – 30MHz	No emissions found, caused by the EUT	This is valid for all the tested channels

**EMISSION LIMITATIONS - Radiated (Transmitter)****§ 15.247 (c) (1)**

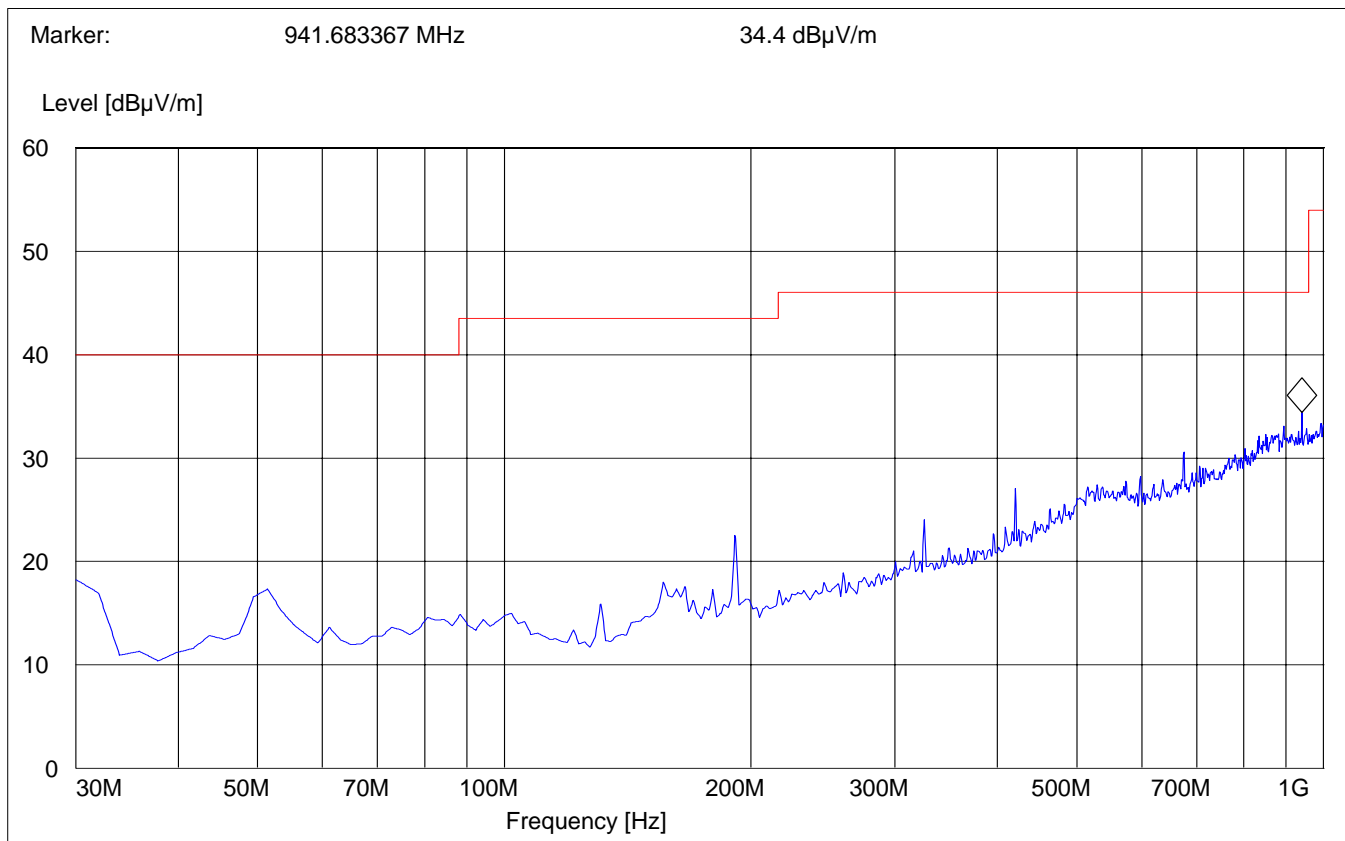
**Note:** All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

Transmit at Lowest channel Frequency 2402MHz			
Frequency (MHz)	Level (dB $\mu$ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Middle channel Frequency 2441MHz			
Frequency (MHz)	Level (dB $\mu$ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			
Transmit at Highest channel Frequency 2480MHz			
Frequency (MHz)	Level (dB $\mu$ V/m)		
	Peak	Quasi-Peak	Average
SEE PLOTS			

**EMISSION LIMITATIONS - Radiated (Transmitter)****§ 15.247 (c) (1)****30MHz – 1GHz****Antenna: vertical****Note: This plot is valid for low, mid & high channels (worst-case plot)**

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

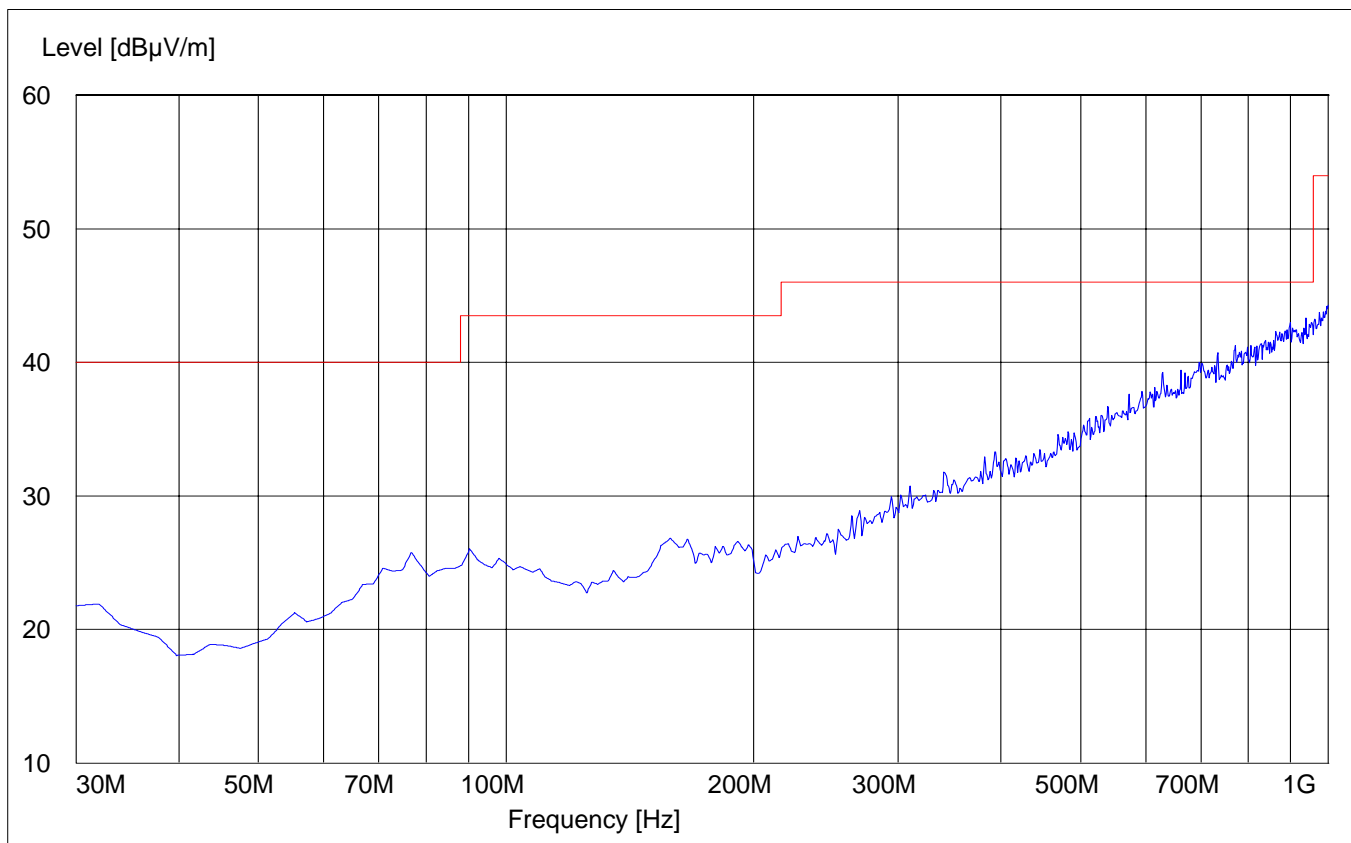
Start	Stop	Detector	Meas. Time	RBW	VBW	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz		3141-#1186



**EMISSION LIMITATIONS - Radiated (Transmitter)****§ 15.247 (c) (1)****30MHz – 1GHz****Antenna: horizontal****Note: This plot is valid for low, mid & high channels (worst-case plot)**

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

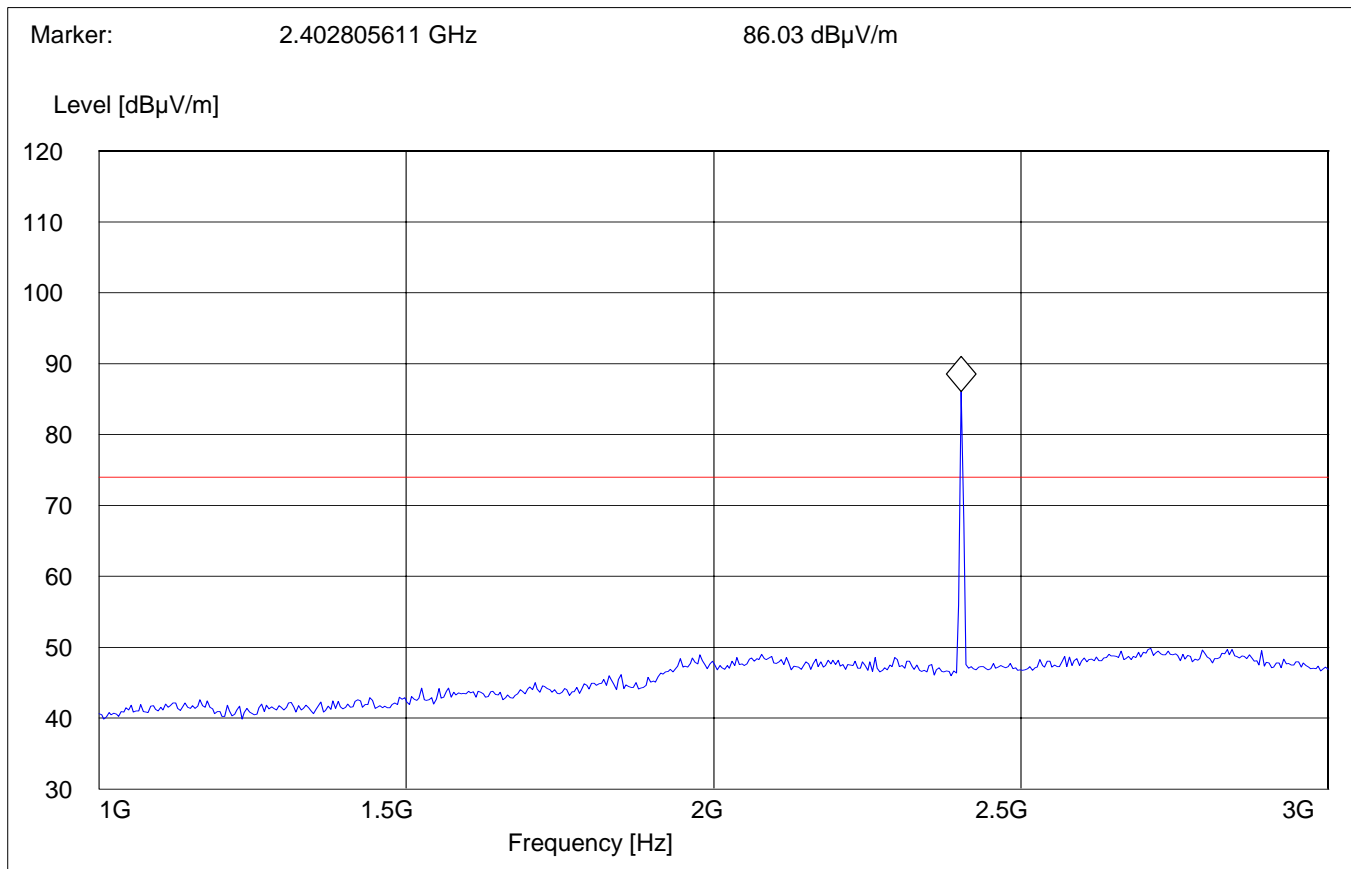
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency		Time	VBW	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186





**EMISSION LIMITATIONS - Radiated (Transmitter)**
**§ 15.247 (c) (1)**
**Lowest Channel (2402MHz): 1GHz – 3GHz**
**NOTE: The peak above the limit is the carrier frequency.**

SWEEP TABLE:		"BT Spuri hi 1-3G"			
Short Description:		Bluetooth Spurious 1-3GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)

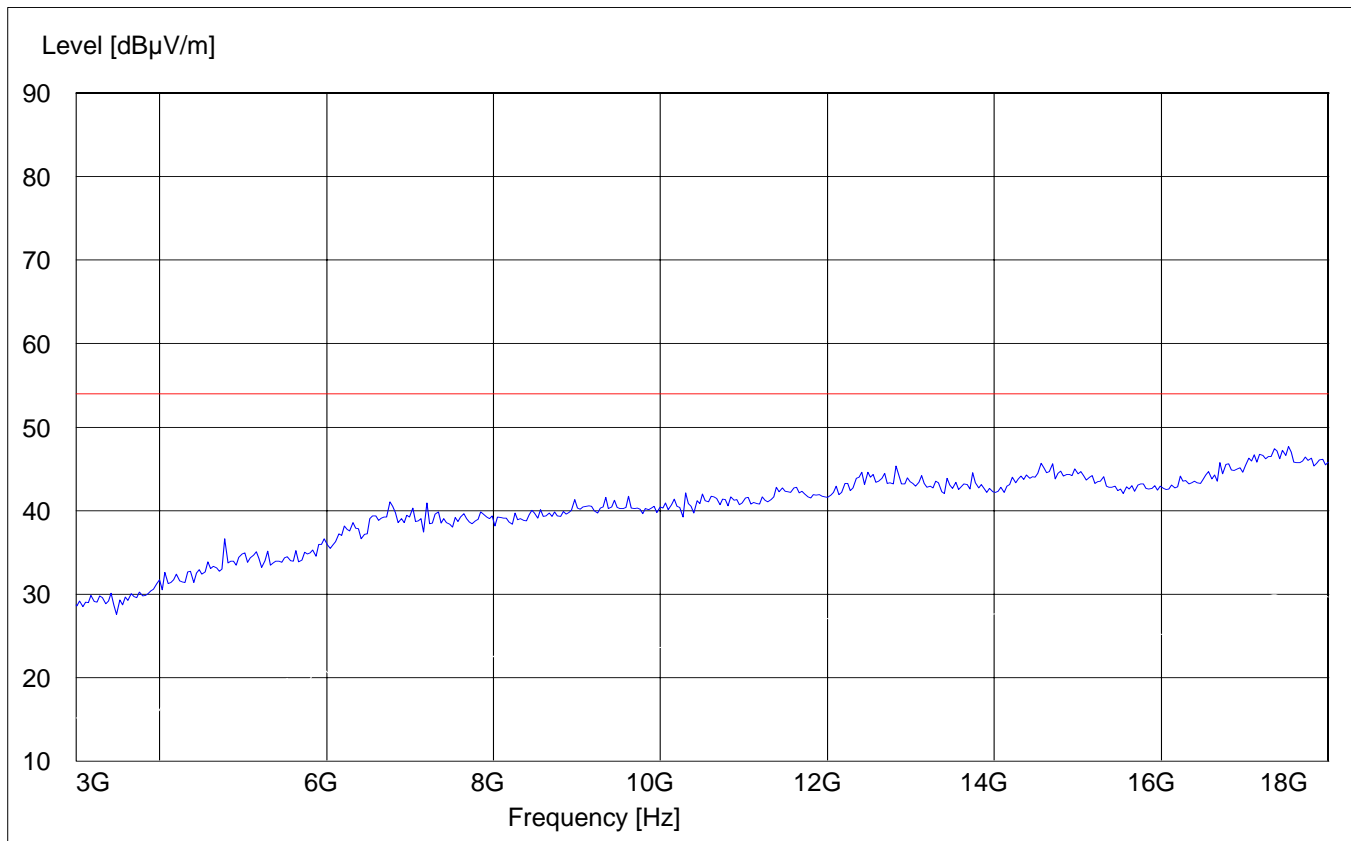


**EMISSION LIMITATIONS - Radiated (Transmitter)**

**§ 15.247 (c) (1)**

**Lowest Channel (2402MHz): 3GHz – 18GHz**

SWEEP TABLE:		"BT Spuri hi 3-18G"			
Short Description:		Bluetooth Spurious 3-18 GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



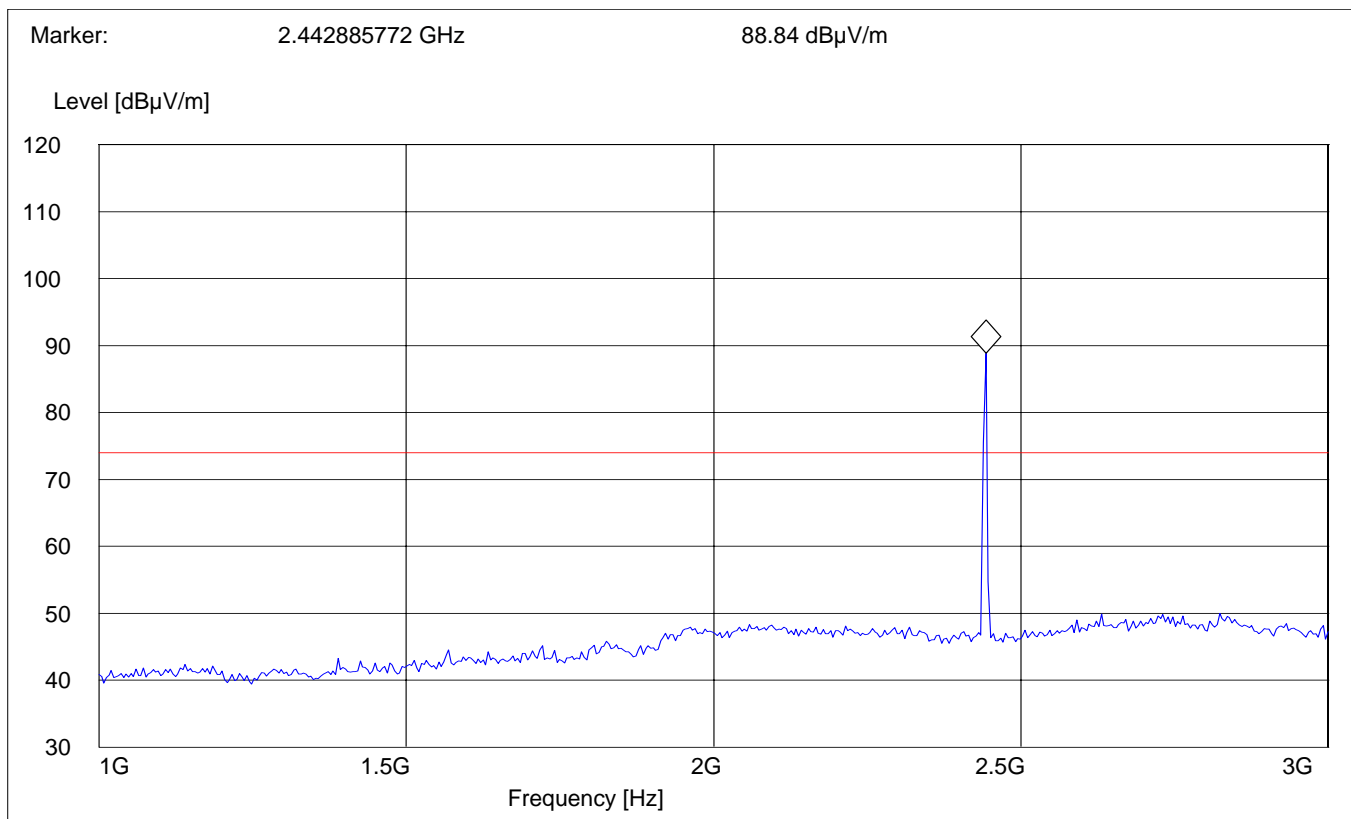
# EMISSION LIMITATIONS - Radiated (Transmitter)

## Middle Channel (2441MHz): 1GHz – 3GHz

§ 15.247 (c) (1)

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

SWEEP TABLE:		"BT Spuri hi 1-3G"			
Short Description:		Bluetooth Spurious 1-3GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)

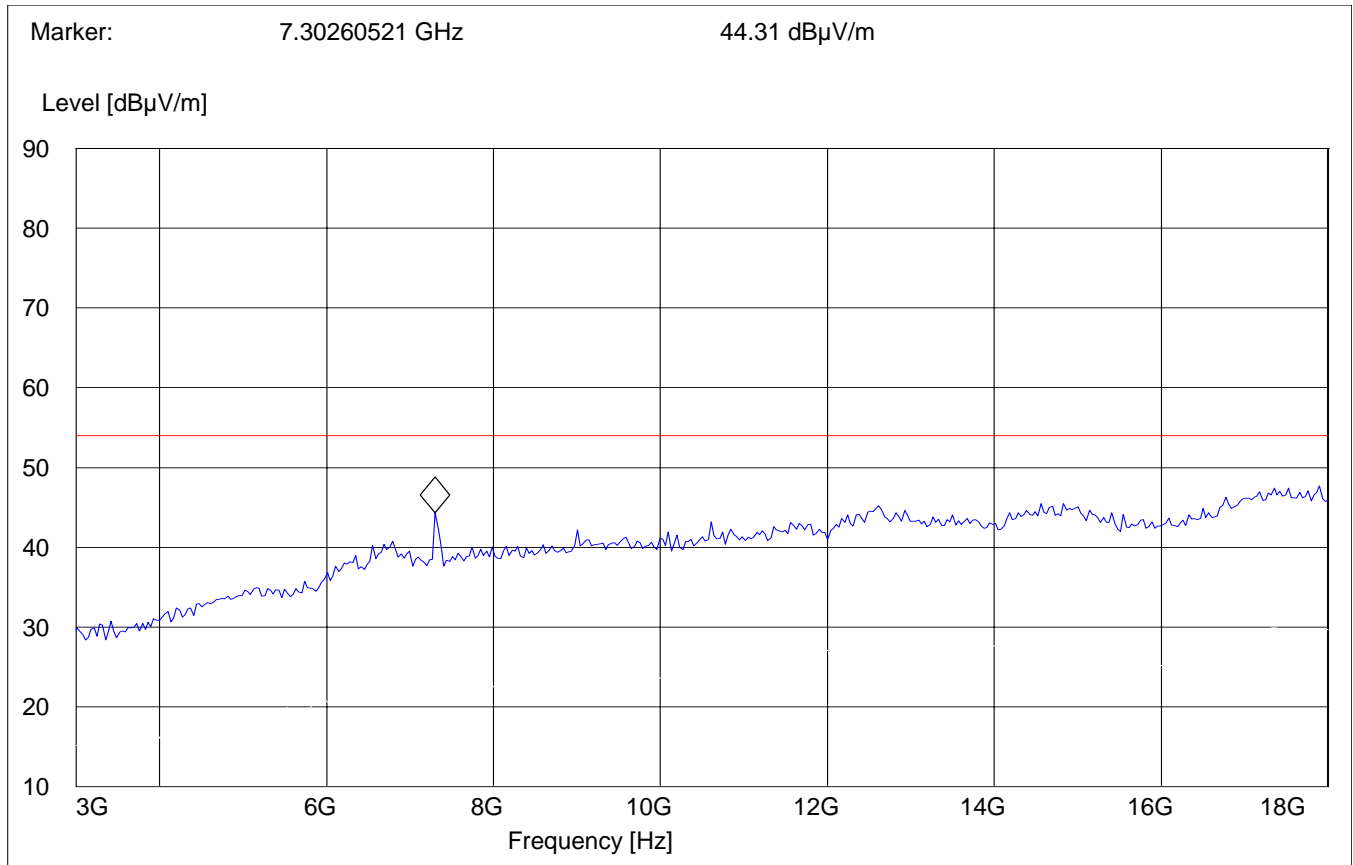


# EMISSION LIMITATIONS - Radiated (Transmitter)

## Middle Channel (2441MHz): 3GHz – 18GHz

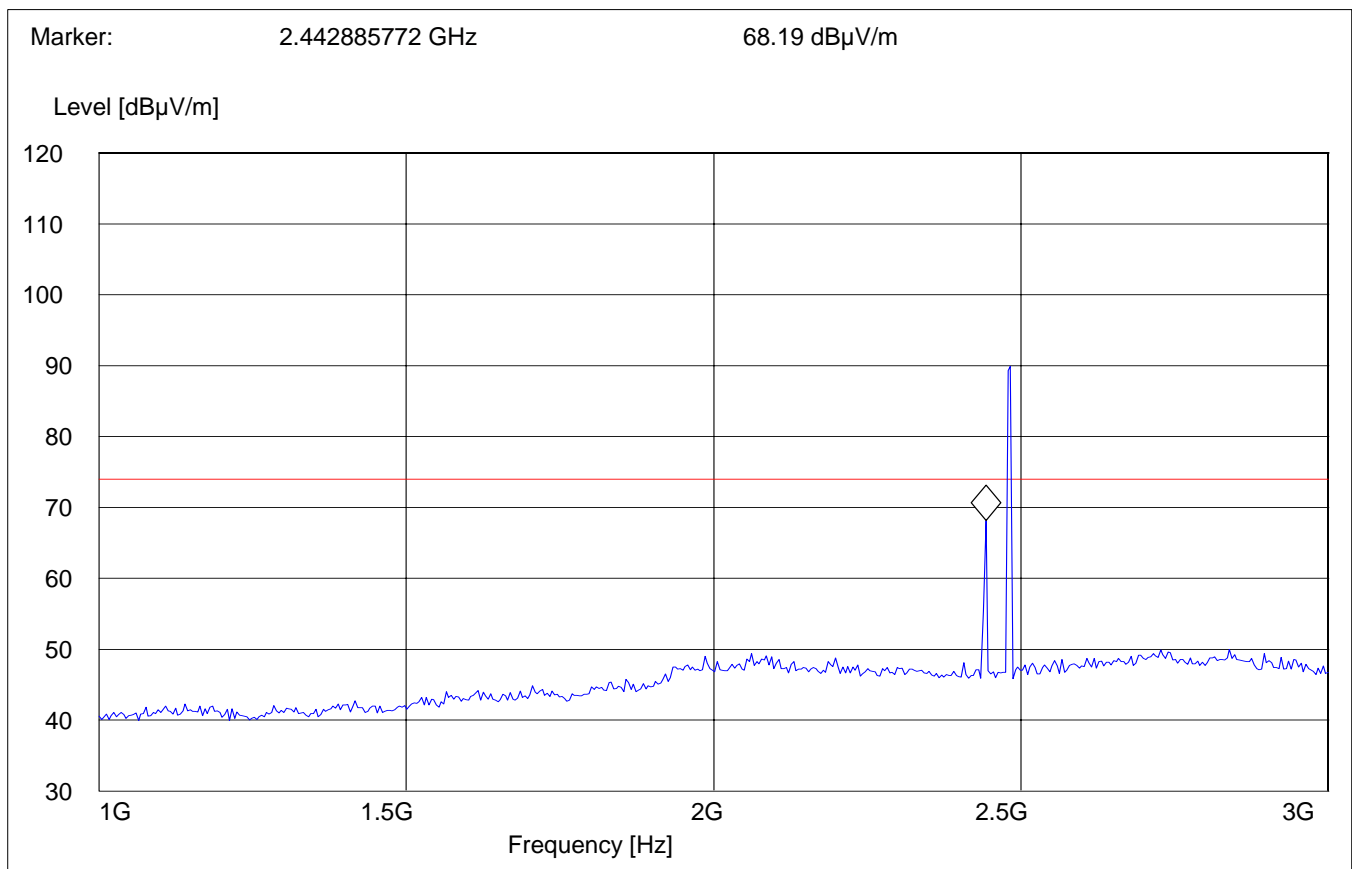
§ 15.247 (c) (1)

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	18.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



**EMISSION LIMITATIONS - Radiated (Transmitter)**
**§ 15.247 (c) (1)**
**Highest Channel (2480MHz): 1GHz – 3GHz**
**NOTE: The peak above the limit is the carrier frequency.**

SWEEP TABLE:		"BT Spuri hi 1-3G"			
Short Description:		Bluetooth Spurious 1-3GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)

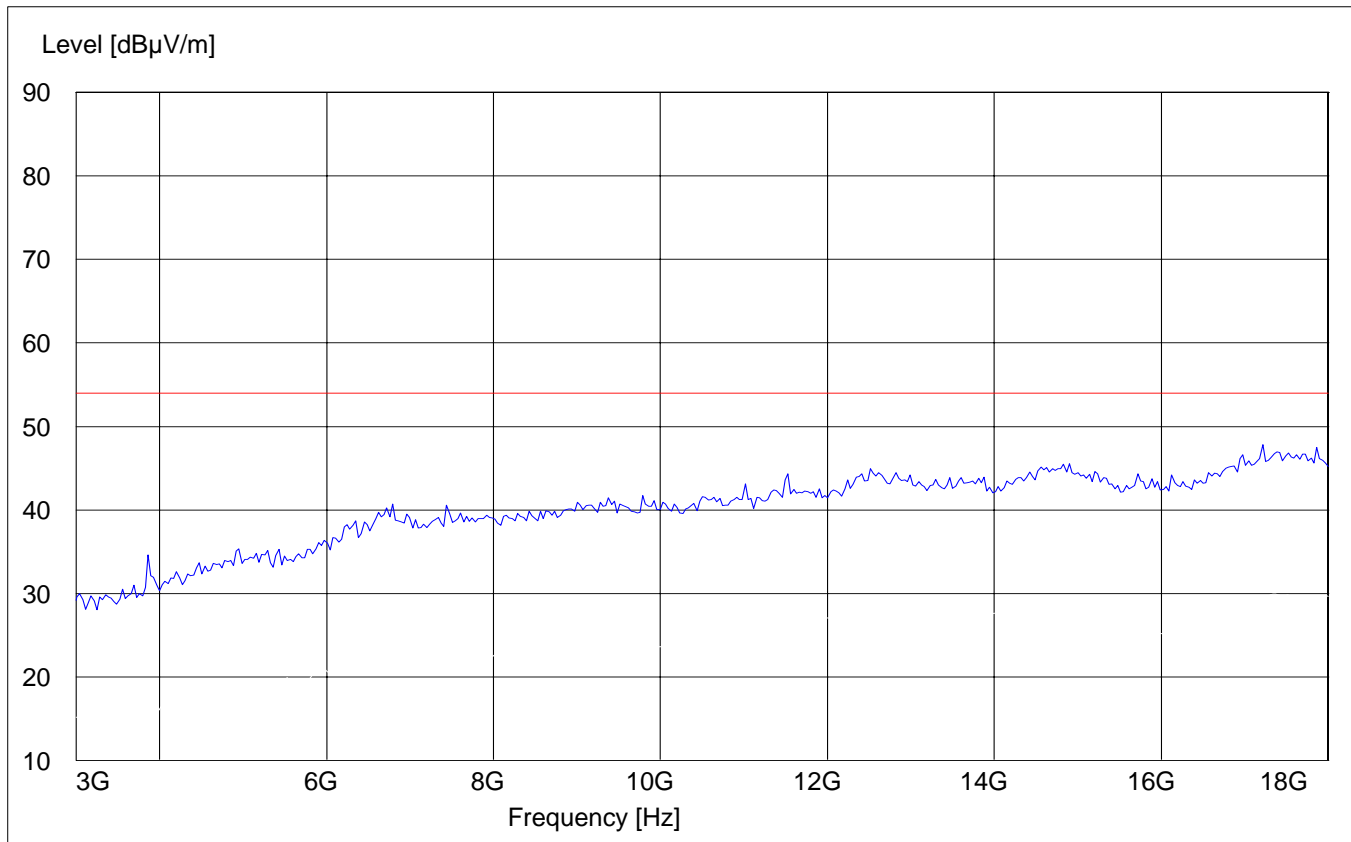


# EMISSION LIMITATIONS - Radiated (Transmitter)

## Highest Channel (2480MHz): 3GHz – 18GHz

§ 15.247 (c) (1)

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	18.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



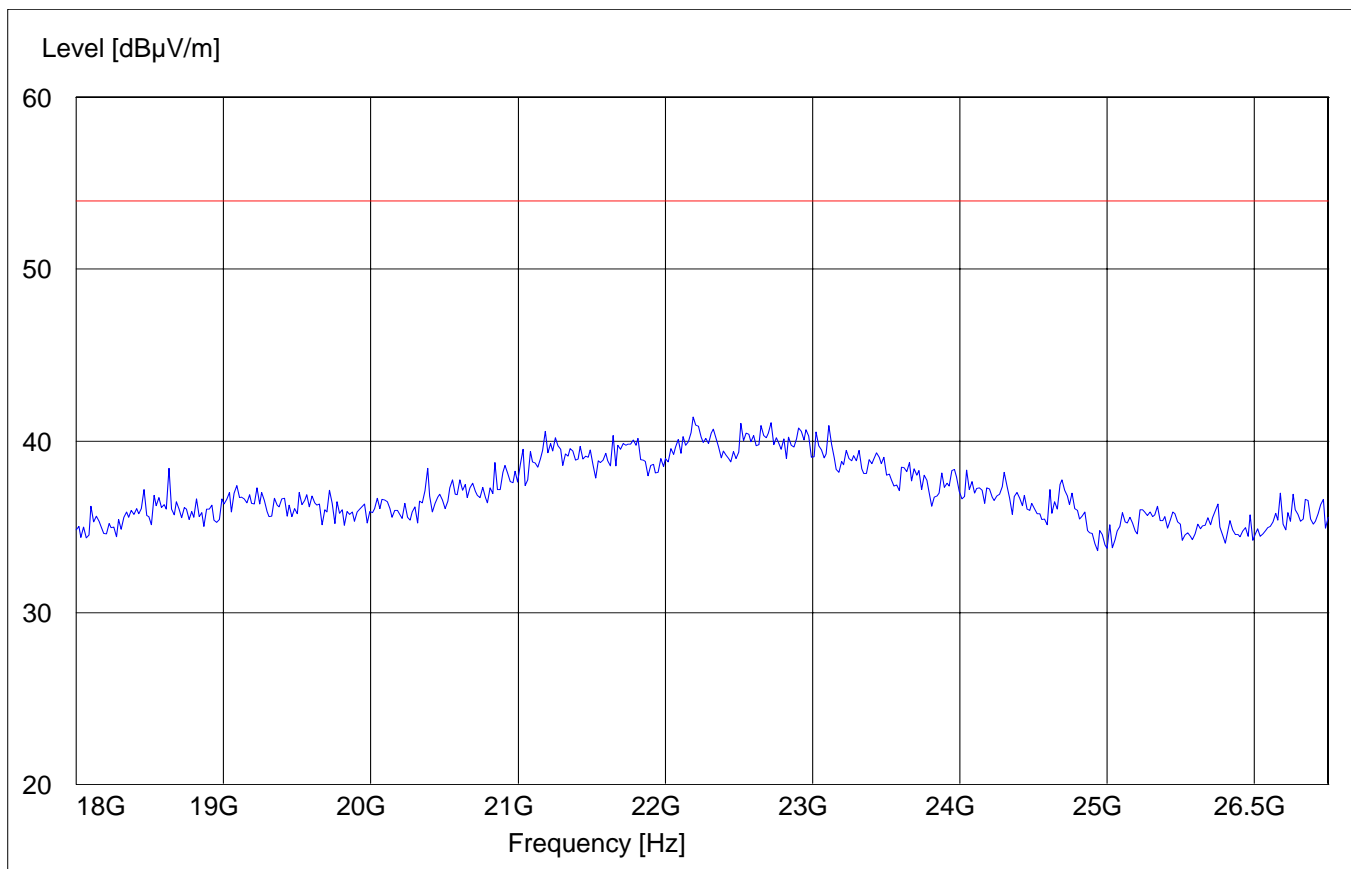
**EMISSION LIMITATIONS - Radiated (Transmitter)**

**§ 15.247 (c) (1)**

**18GHz – 26.5GHz**

**Note: This plot is valid for low, mid & high channels (worst-case plot)**

SWEEP TABLE:		"BT Spuri hi 18-26.5G"			
Short Description:		Bluetooth Spurious 18-26.5GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
18 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#141 horn (dBi)



# CONDUCTED EMISSIONS

§ 15.107/207

Measured with AC/DC power adapter model# Nokia ACP-7U

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

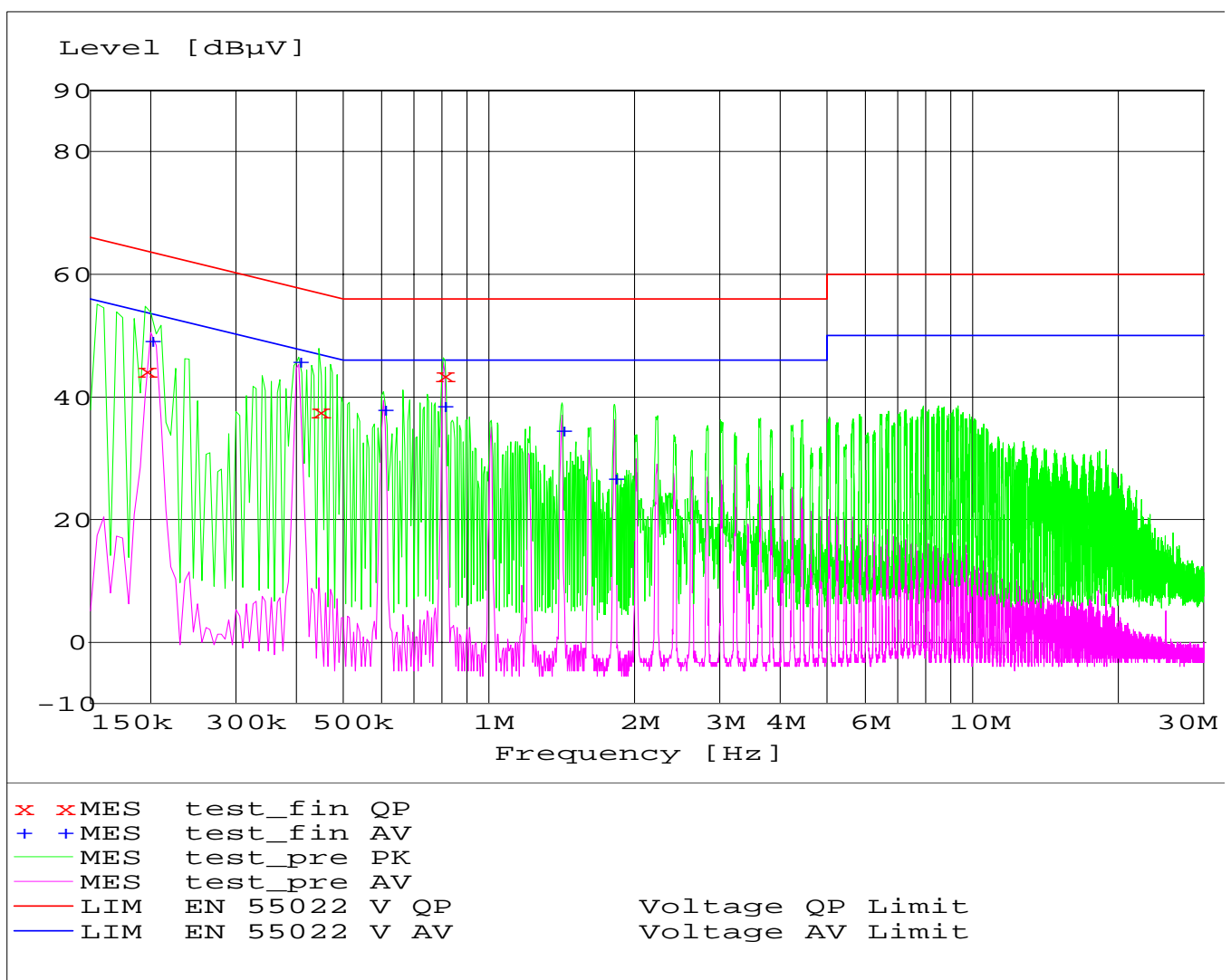
## Limit

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





**MEASUREMENT RESULT: "test\_fin QP"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.195000	44.30	0.0	64	19.5	N	GND
0.445000	37.60	0.0	57	19.4	N	GND
0.805000	43.60	0.0	56	12.4	N	GND

**MEASUREMENT RESULT: "test\_fin AV"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.200000	49.30	0.0	54	4.3	N	GND
0.405000	45.70	0.0	48	2.1	L1	GND
0.605000	38.00	0.0	46	8.0	N	GND
0.805000	38.50	0.0	46	7.5	N	GND
1.415000	34.60	0.0	46	11.4	N	GND
1.815000	26.70	0.0	46	19.3	N	GND

**RECEIVER SPURIOUS RADIATION****§ 15.209****Limits**

Frequency (MHz)	Field strength ( $\mu\text{V/m}$ )	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

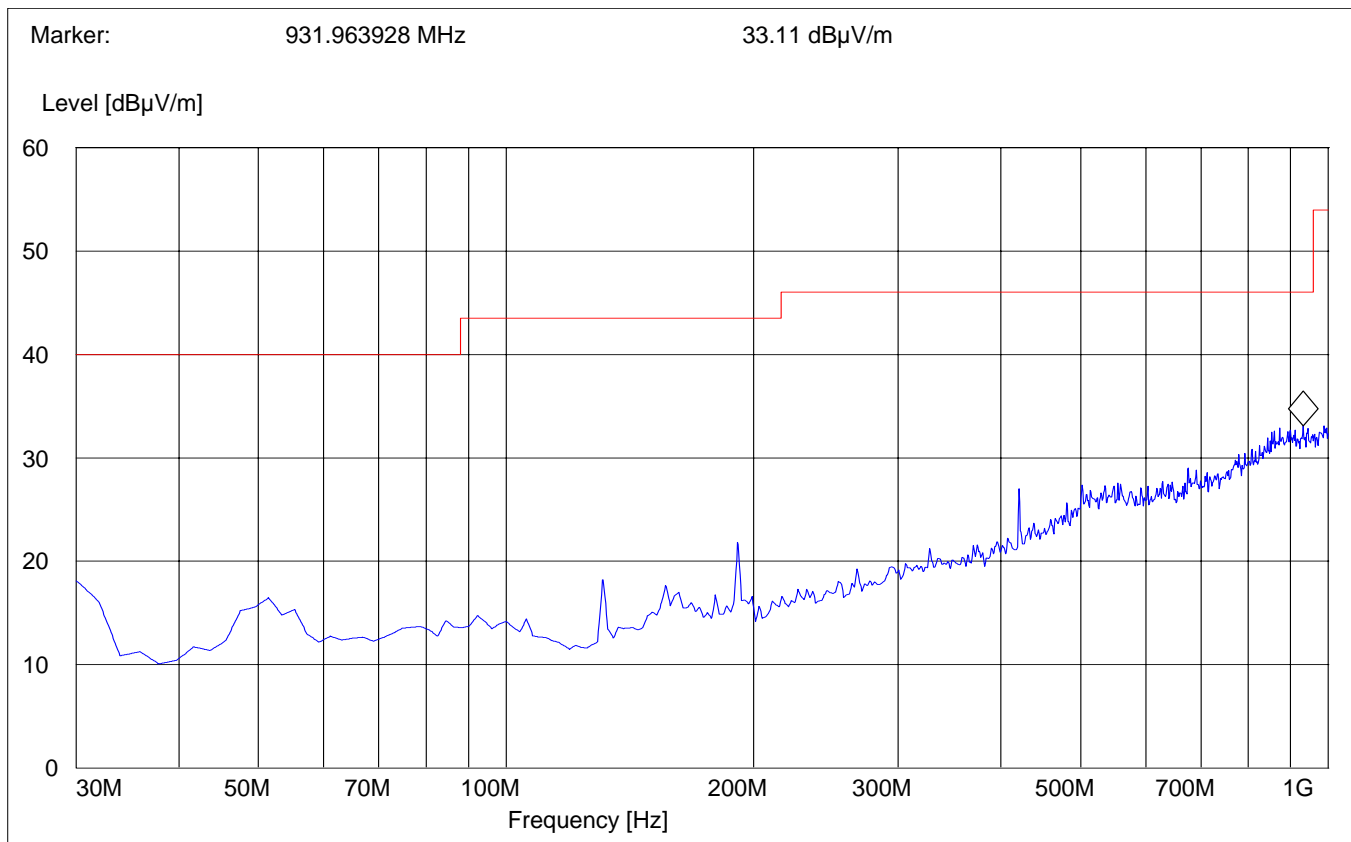
**NOTE:**

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 26.5 GHz very short cable connections to the antenna was used to minimize the noise level.
2. All measurements are done in peak mode unless specified with the plots.

**RECEIVER SPURIOUS RADIATION****§ 15.209****30MHz – 1GHz****Antenna: vertical (worst-case plot)**

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

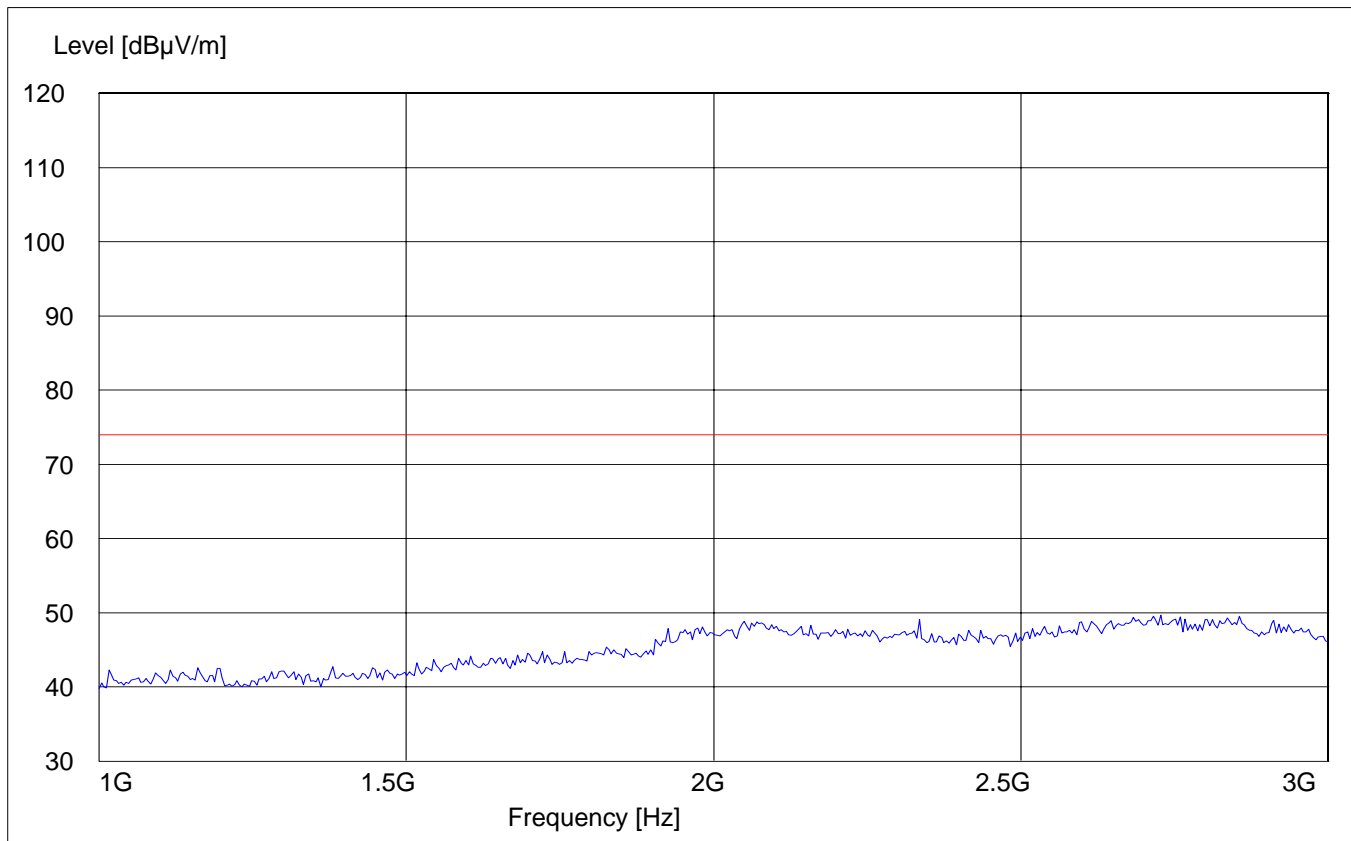
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency		Time	VBW	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186



**RECEIVER SPURIOUS RADIATION**  
**1GHz – 3GHz**

§ 15.209

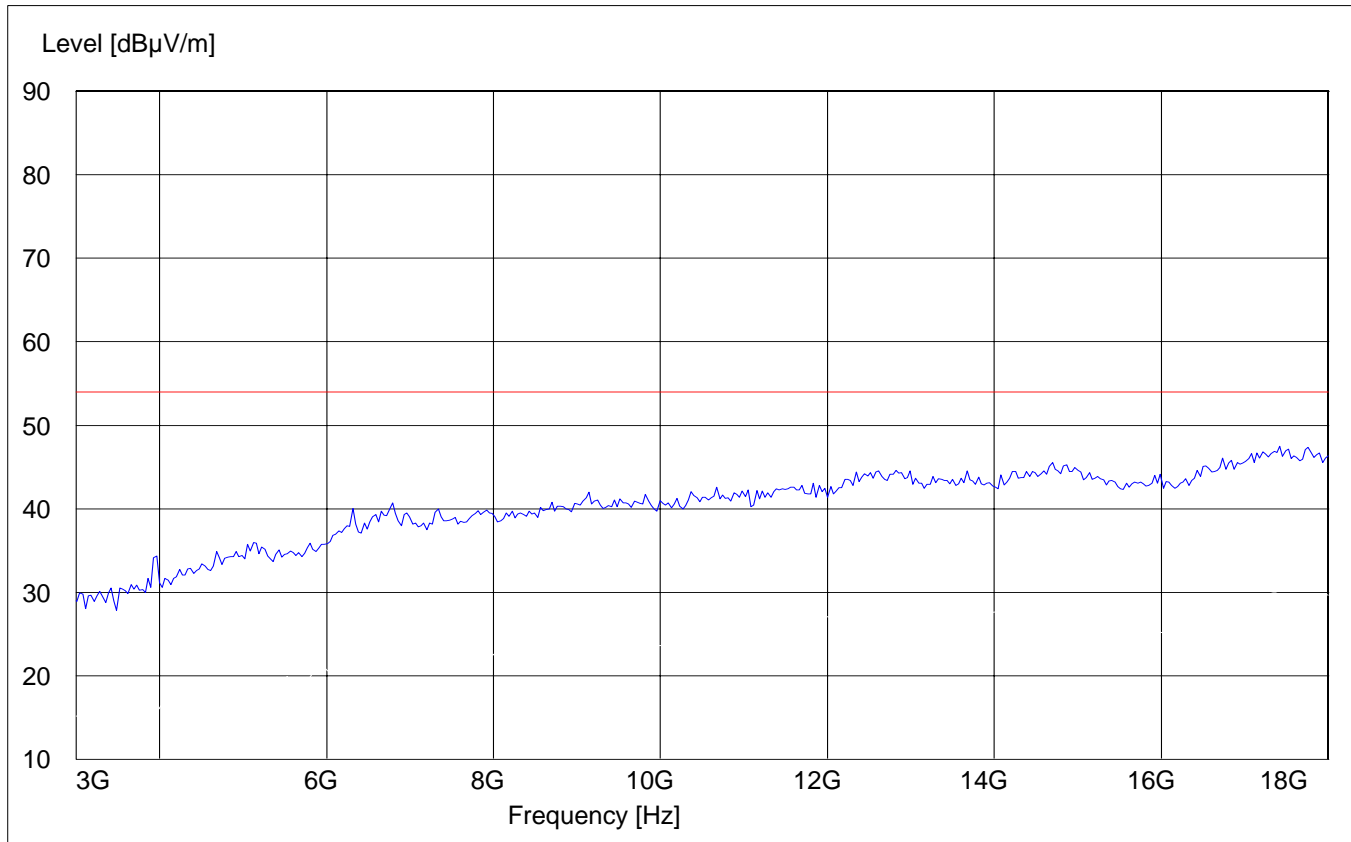
SWEEP TABLE:		"BT Spuri hi 1-3G"			
Short Description:		Bluetooth Spurious 1-3GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



**RECEIVER SPURIOUS RADIATION**  
**3GHz – 18GHz**

§ 15.209

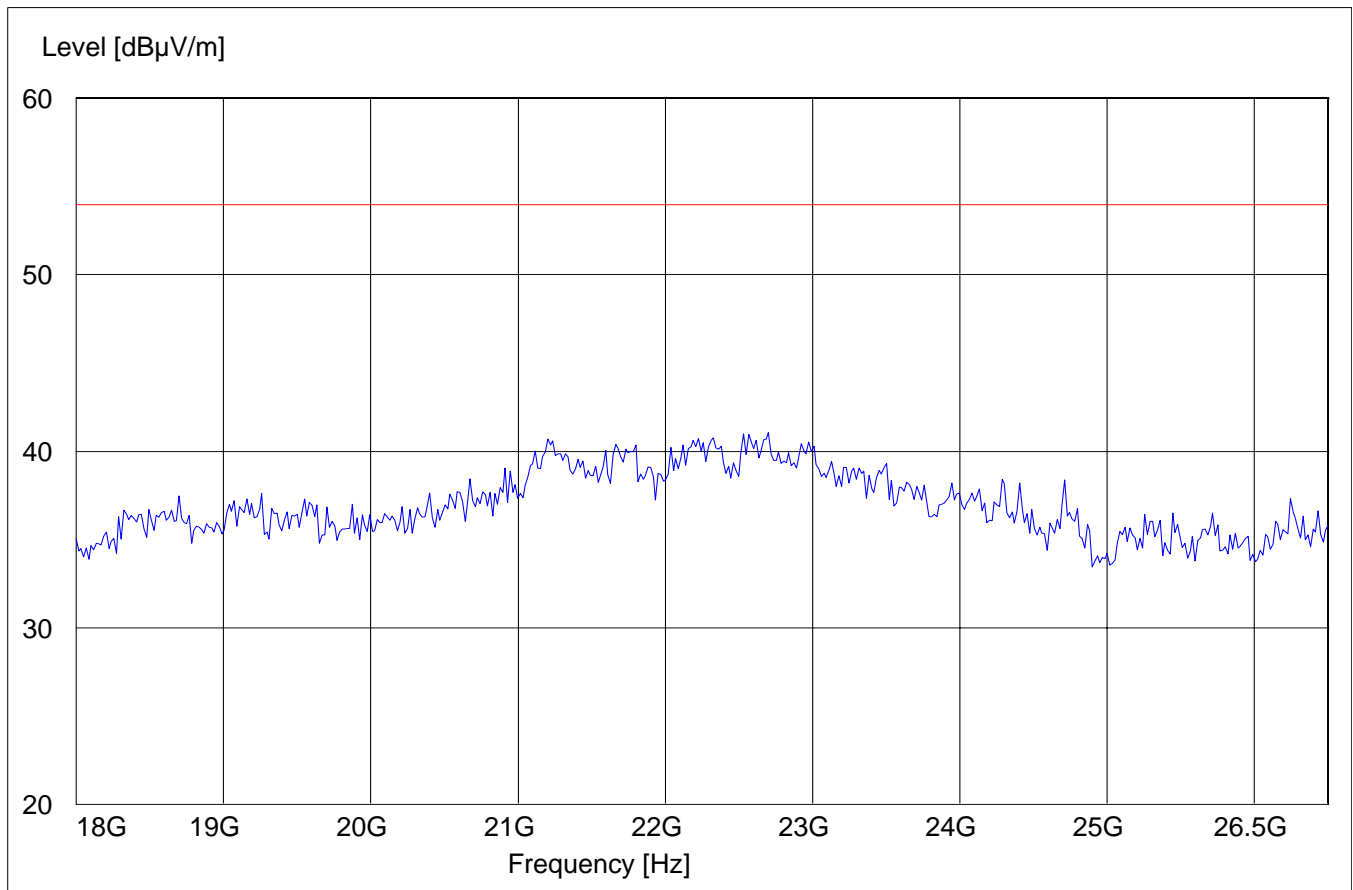
SWEEP TABLE:		"BT Spuri hi 3-18G"			
Short Description:		Bluetooth Spurious 3-18 GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



**RECEIVER SPURIOUS RADIATION**  
**18GHz – 26.5GHz**

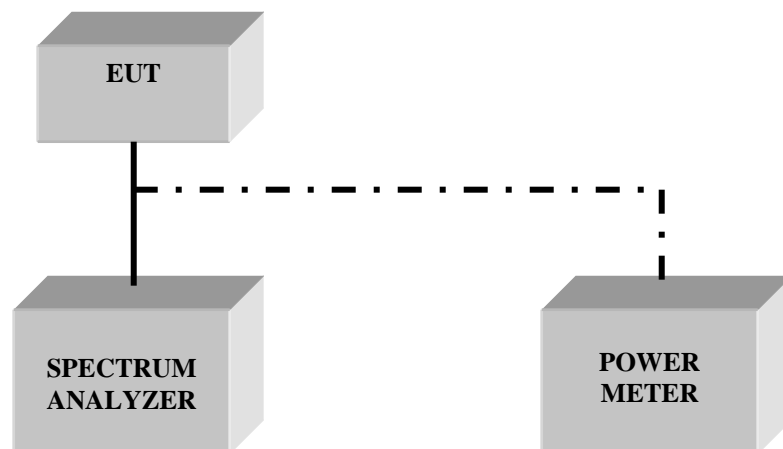
§ 15.209

SWEEP TABLE:		"BT Spuri hi 18-26.5G"			
Short Description:		Bluetooth Spurious 18-26.5GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	#326 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	Biconilog Antenna	3141	EMCO	0005-1186
04	Horn Antenna (700M-18GHz)	SAS-200/571	AH Systems	325
05	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240
06	2-3GHz Band reject filter	BRM50701	Microtronics	6
07	Pre-Amplifier	TS-ANA	Rohde & Schwarz	--
08	Pre-Amplifier	JS4-00102600	Miteq	00616

**BLOCK DIAGRAMS****Conducted Testing**



## Radiated Testing

### ANECHOIC CHAMBER

