

CETECOM Inc.



CETECOM Inc.

411 Dixon Landing Road, Milpitas, CA-95035, USA

Phone: +1 408 586 6200 Fax: +1 408 586 6299

www.cetecom.com

Issued test report consists of 57 Pages

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

Test report no.: EMC_380FCC15.247_2002
FCC Part 15.247 for DSSS systems / CANADA RSS-210
(BCM94306MP)
FCC ID: QDS-BRCM1005

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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.

411 Dixon Landing Road, Milpitas, CA-95035, USA

Phone: +1 408 586 6200 Fax: +1 408 586 6299

E-mail: lothar.schmidt@cetecomusa.com

Internet: www.cetecom.com

1.3 Details of applicant

Name : **Broadcom corporation**
Street : **400 East Caribbean drive**
City / Zip Code : **Sunnyvale, 94089**
Country : **USA**
Contact : **Chris McGough**
Telephone : **408-922-5810**
Tele-fax : **408-202-3004**
e-mail : cmcgough@broadcom.com

1.4 Application details

Date of receipt of application : 2002-11-21
Date of receipt test item : 2002-11-21
Date of test : 2002-11-21 and 2002-11-22

1.5 Test item

Manufacturer : See applicant
Model No. : BCM94306MP
[Description](#) : [802.11g Wireless Lan Access Point](#)
FCC-ID : QDS-BRCM1005

Additional information

Frequency : 2412MHz – 2462MHz
Type of modulation : OFDM (orthogonal frequency division multiplexing)
Number of channels : 11
Antenna : 5dBi external antenna
Power supply : 3.3 VDC
Output power : 15dBm Average
Extreme temp. Tolerance : -30 to +55 °C

1.6 Test standards: **FCC Part 15 §15.247 / CANADA 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:

2002-11-26 EMC & Radio

Lothar Schmidt
(Manager)



Date

Section

Name

Signature

Responsible for test report and project leader:

2002-11-26 EMC & Radio

Philip Kim
(EMC Engineer)



Date

Section

Name

Signature

2.2 Test report

TEST REPORT

**Test report no. : EMC_380FCC15.247_2002
(BCM94306MP)**

TEST REPORT REFERENCE

LIST OF MEASUREMENTS		PAGE
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**Note: Following equipment was used as a host for EUT during entire process of testing;
WLAN Access Point(with 5dBi antenna)**

Brand: Linksys

Model: WAP51AB

S/No.: 0006250C4A8E

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	25.55 dBm	24.48 dBm	24.11 dBm
Raidated Power (EIRP)	30.55 dBm	29.48 dBm	29.11 dBm
Antenna Gain	5 dBi	5 dBi	5 dBi

The antenna gain is given at 5dBi.

SPECTRUM BANDWIDTH OF DSSS SYSTEM**§15.247(a) (2)****6 dB bandwidth**

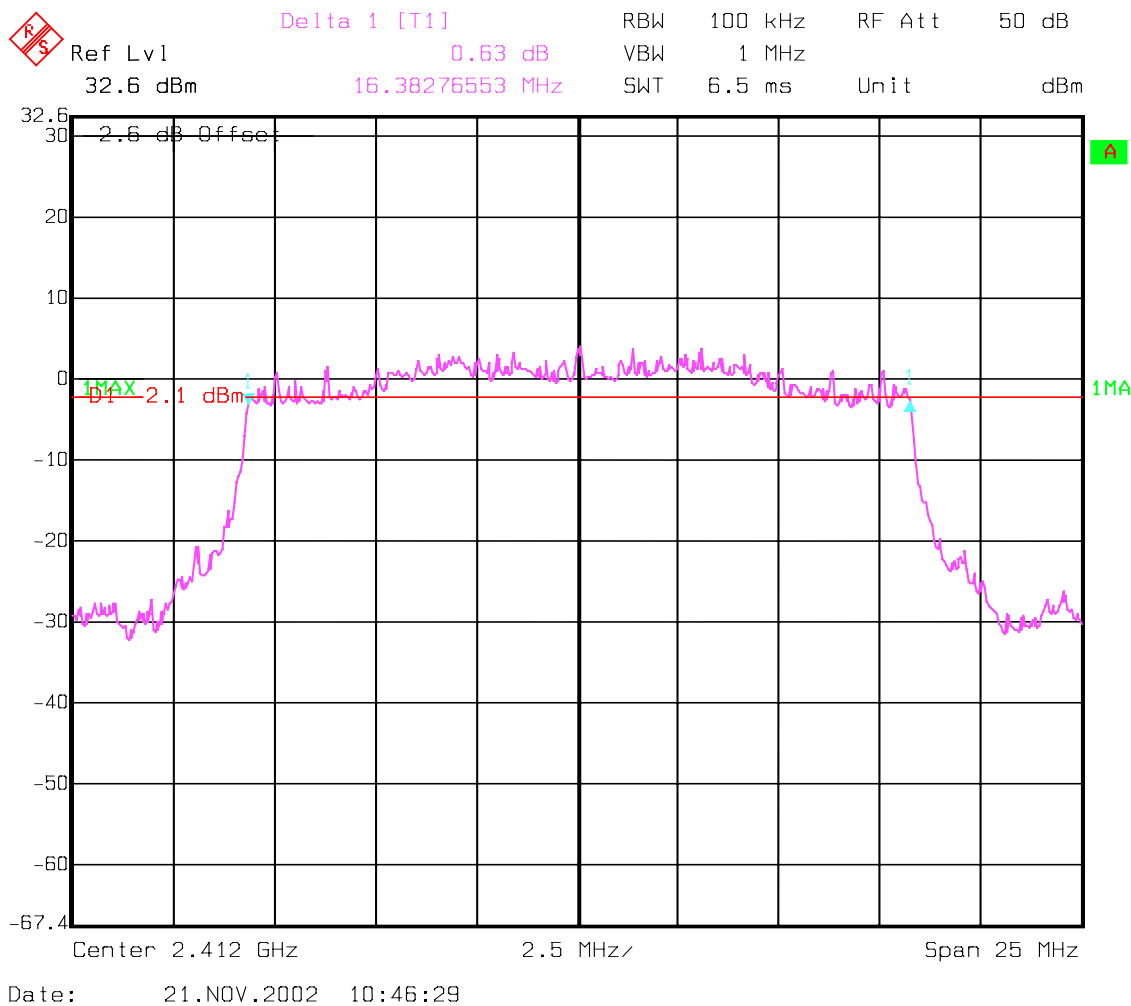
TEST CONDITIONS		6 dB BANDWIDTH (MHz)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom} (3.3)VDC	16.38	16.53	16.43

LIMIT**SUBCLAUSE §15.247(a) (2)****The minimum 6dB bandwidth shall be at least 500 KHz**

SPECTRUM BANDWIDTH OF DSSS SYSTEM 6 dB bandwidth

§15.247(a) (2)

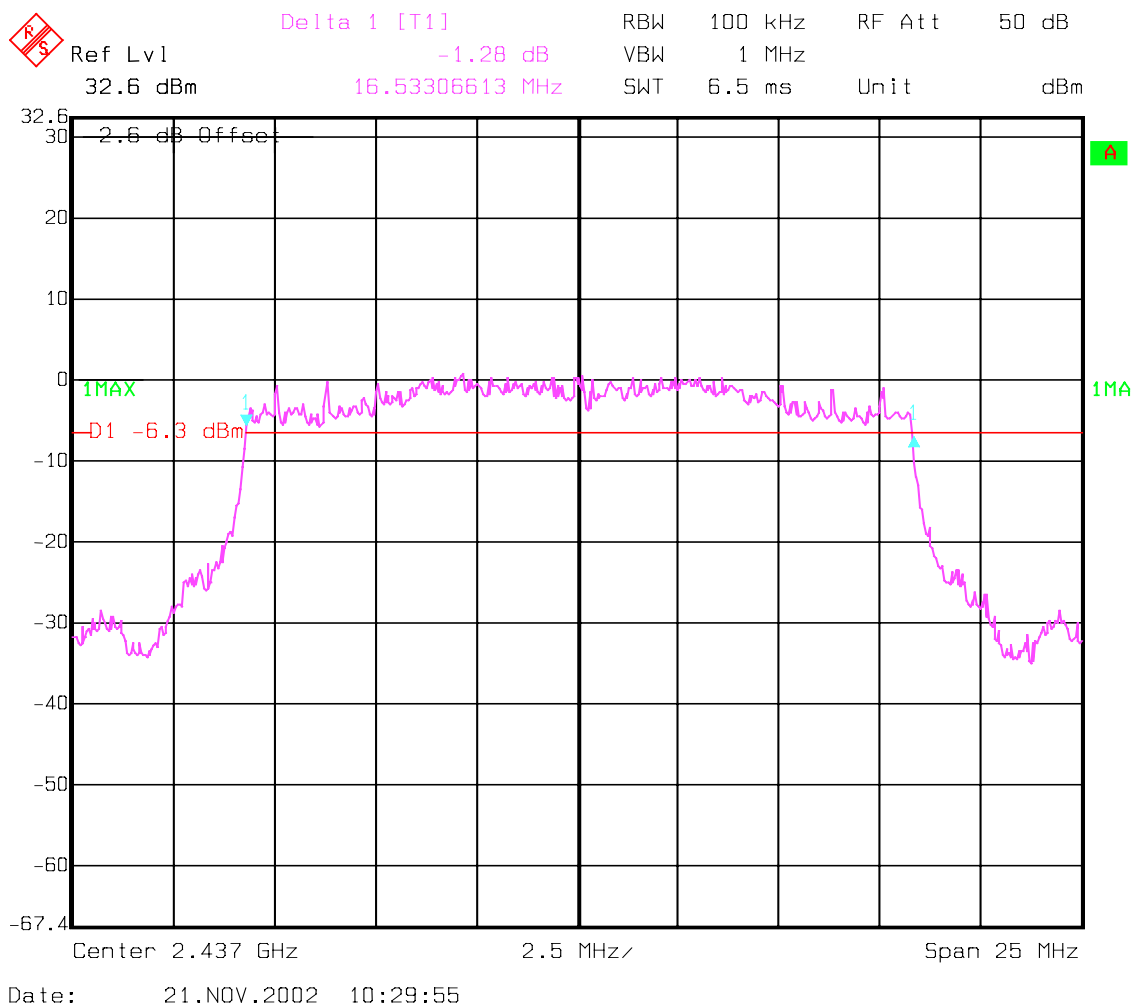
Lowest Channel: 2412MHz



SPECTRUM BANDWIDTH OF DSSSS SYSTEM 6 dB bandwidth

§15.247(a) (2)

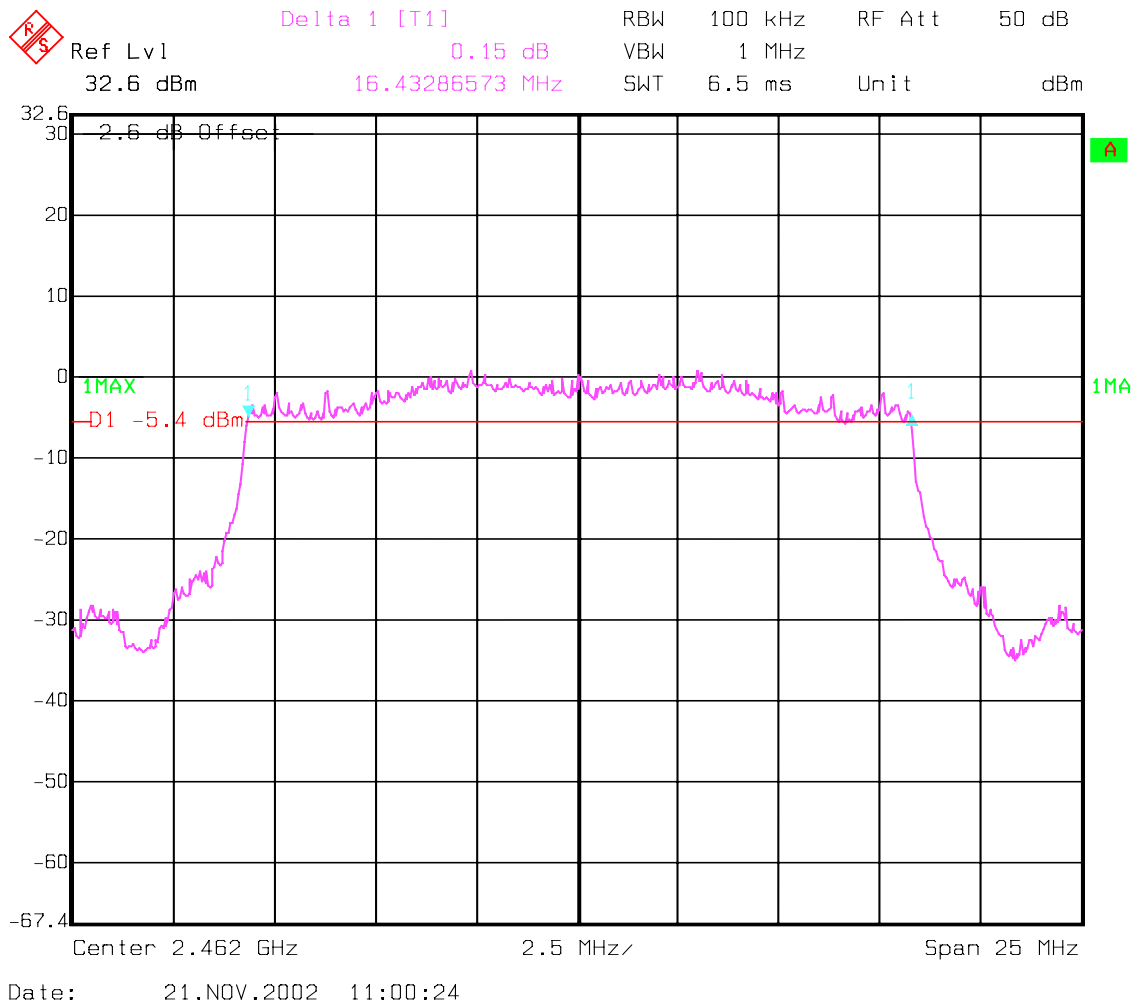
Mid Channel: 2437MHz



SPECTRUM BANDWIDTH OF DSSS SYSTEM 6 dB bandwidth

§15.247(a) (2)

Highest Channel: 2462MHz



**MAXIMUM PEAK OUTPUT POWER
(conducted)****§ 15.247 (b) (1)**

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)			
Frequency (MHz)		2412		2437	2462
T _{nom} (23)°C	V _{nom} (3.3)VDC	Pk	*25.55	*24.48	*24.11
Measurement uncertainty		±0.5dBm			

RBW / VBW : 10MHz

*To comply with following;

RBW / VBW should be equal to or greater than the 6dB BW

All mesured values are corrected by **10log 6dB BW / used BW**

(Therefore correction factor of 2.14, 2.18 & 2.15 is added to low, mid& high channel measurements respectively)

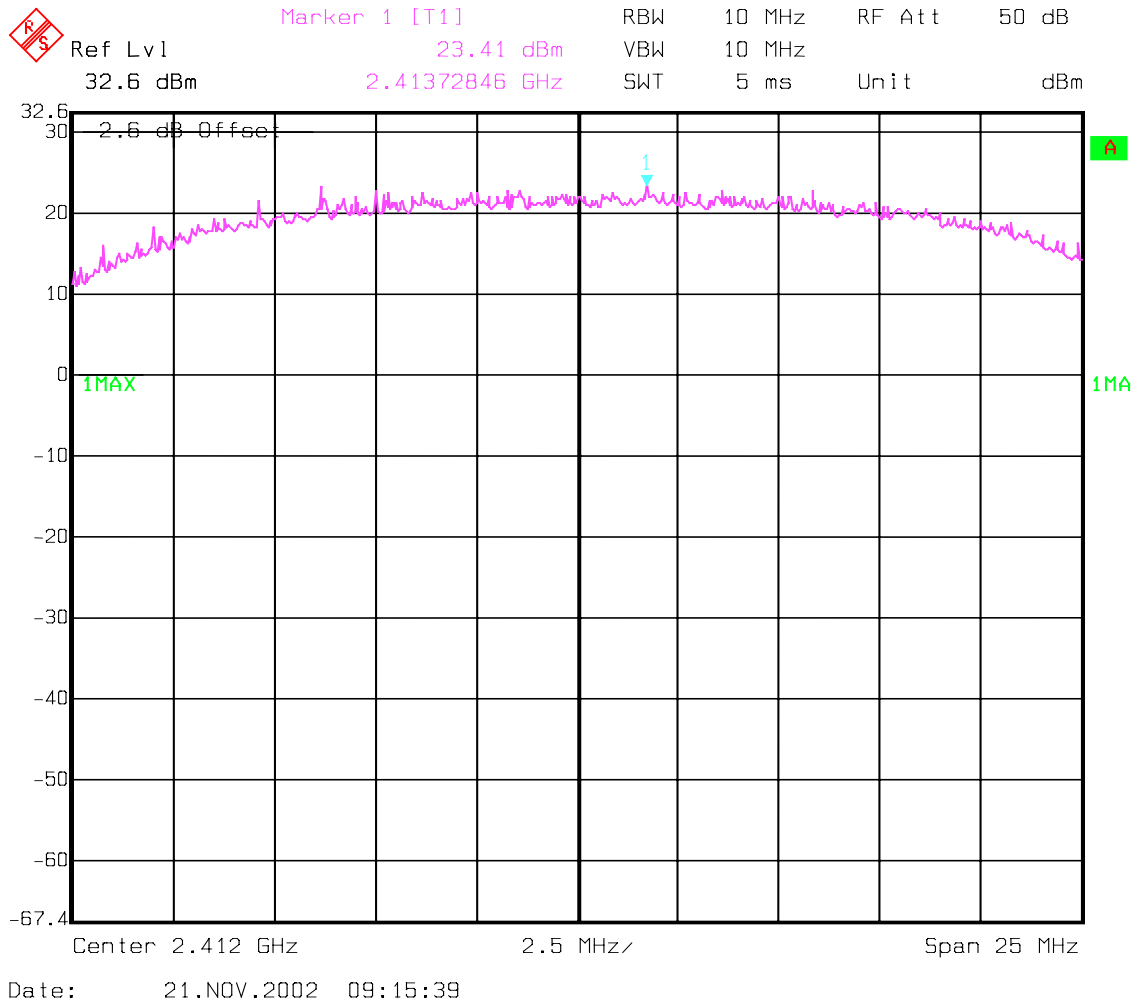
LIMIT**SUBCLAUSE § 15.247 (b) (1)**

Frequency range	RF power output
2400-2483.5 MHz	1.0 Watt / 30dBm

PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b) (1)

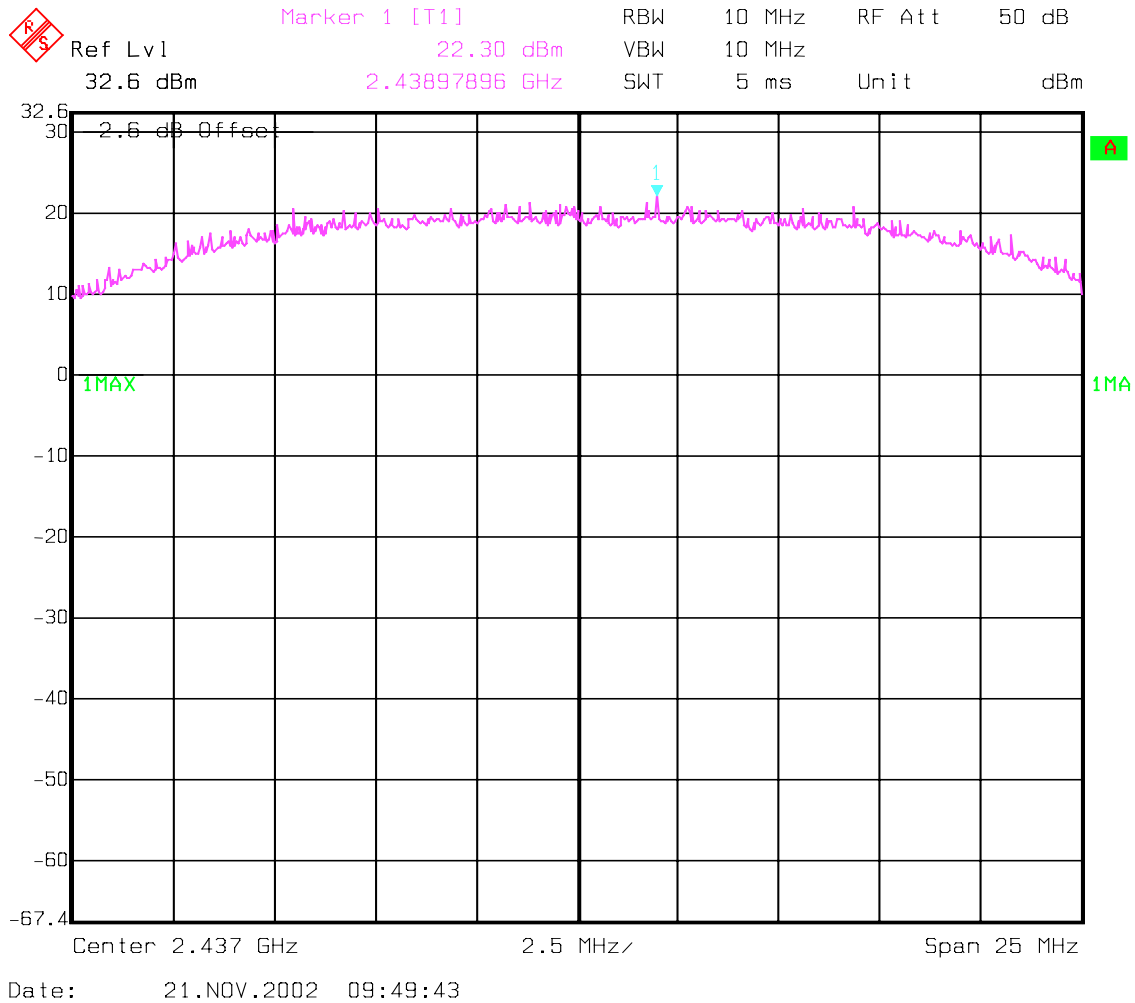
Lowest Channel: 2412MHz



PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b)

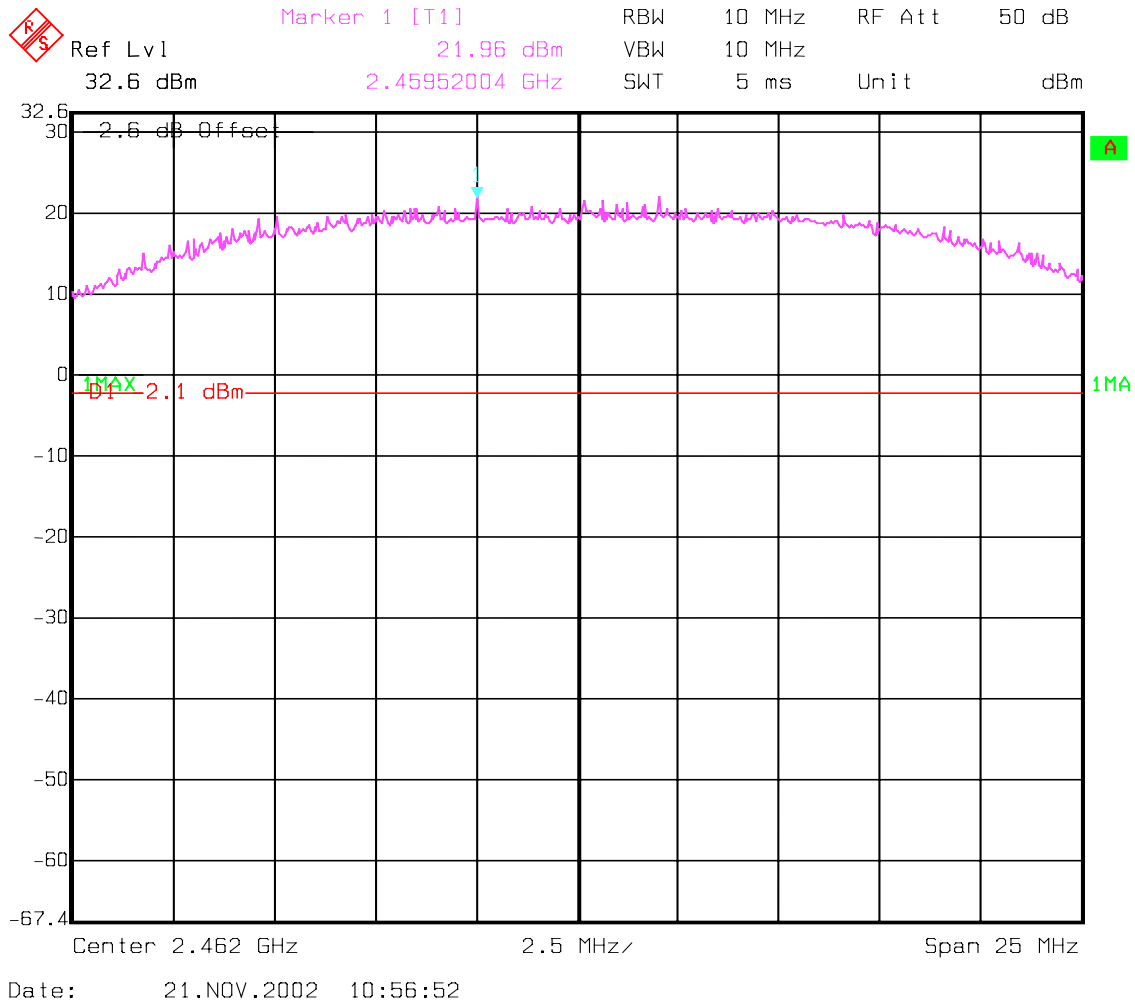
Mid Channel: 2437MHz



PEAK OUTPUT POWER (CONDUCTED)

§15.247 (b)

Highest Channel: 2462MHz



**MAXIMUM PEAK OUTPUT POWER
(RADIATED)**

§ 15.247 (b) (1)

EIRP:

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom} (3.3)VDC	30.55	29.48	29.11
Measurement uncertainty		±0.5dBm		

RBW/VBW : 10MHz

Note: EIRP is calculated based on 5dBi antenna and conducted peak power measurements.

LIMIT

SUBCLAUSE § 15.247 (b) (1)

Frequency range	RF power output
2400-2483.5 MHz	30dBm on Conducted

POWER SPECTRAL DENSITY**§15.247 (d)**

TEST CONDITIONS Frequency (MHz)		POWER SPECTRAL DENSITY (dBm)		
		2412	2437	2462
T_{nom}(23)°C	V_{nom}(3.3)VDC	-0.99	-5.15	-3.72

LIMIT**SUBCLAUSE §15.247(d)**

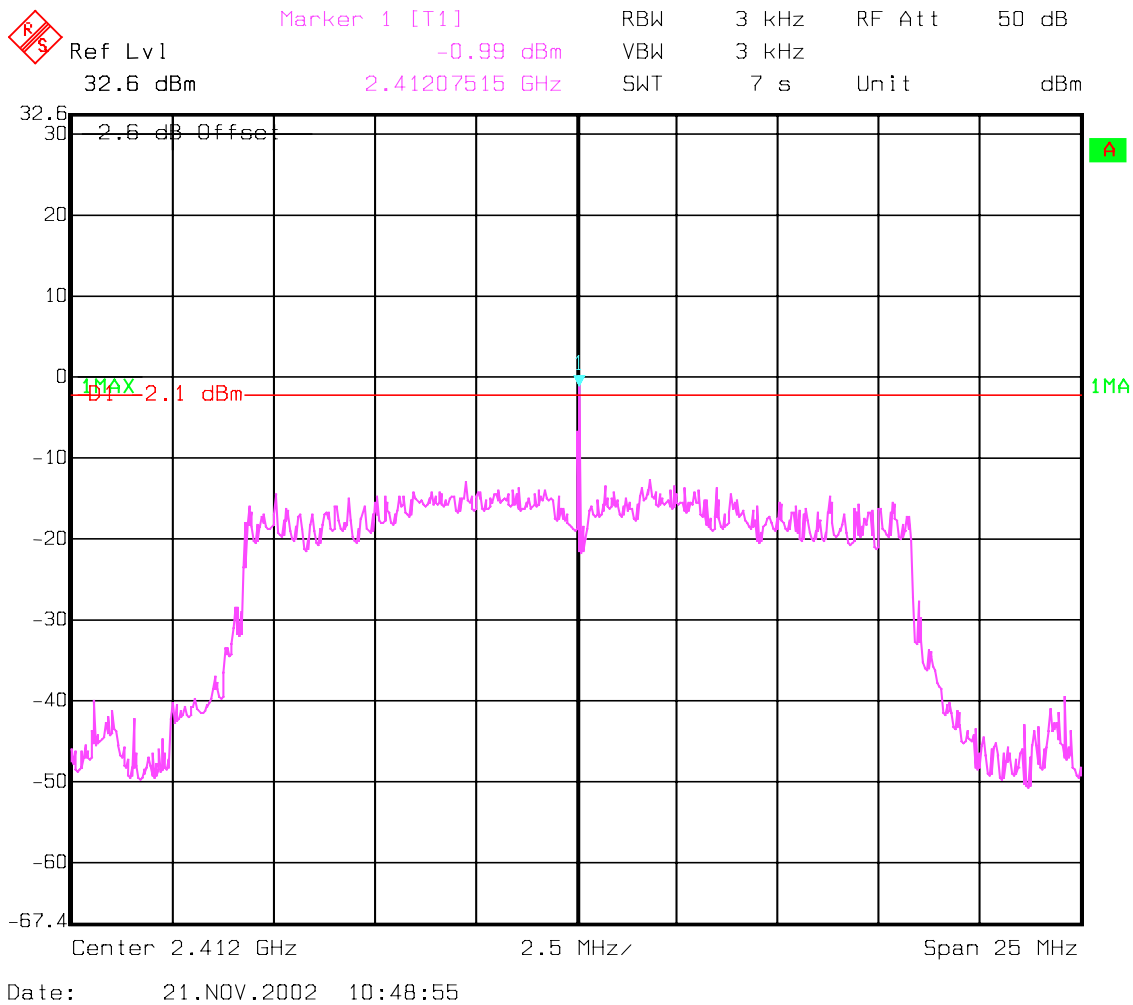
The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band

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

POWER SPECTRAL DENSITY

§15.247(d)

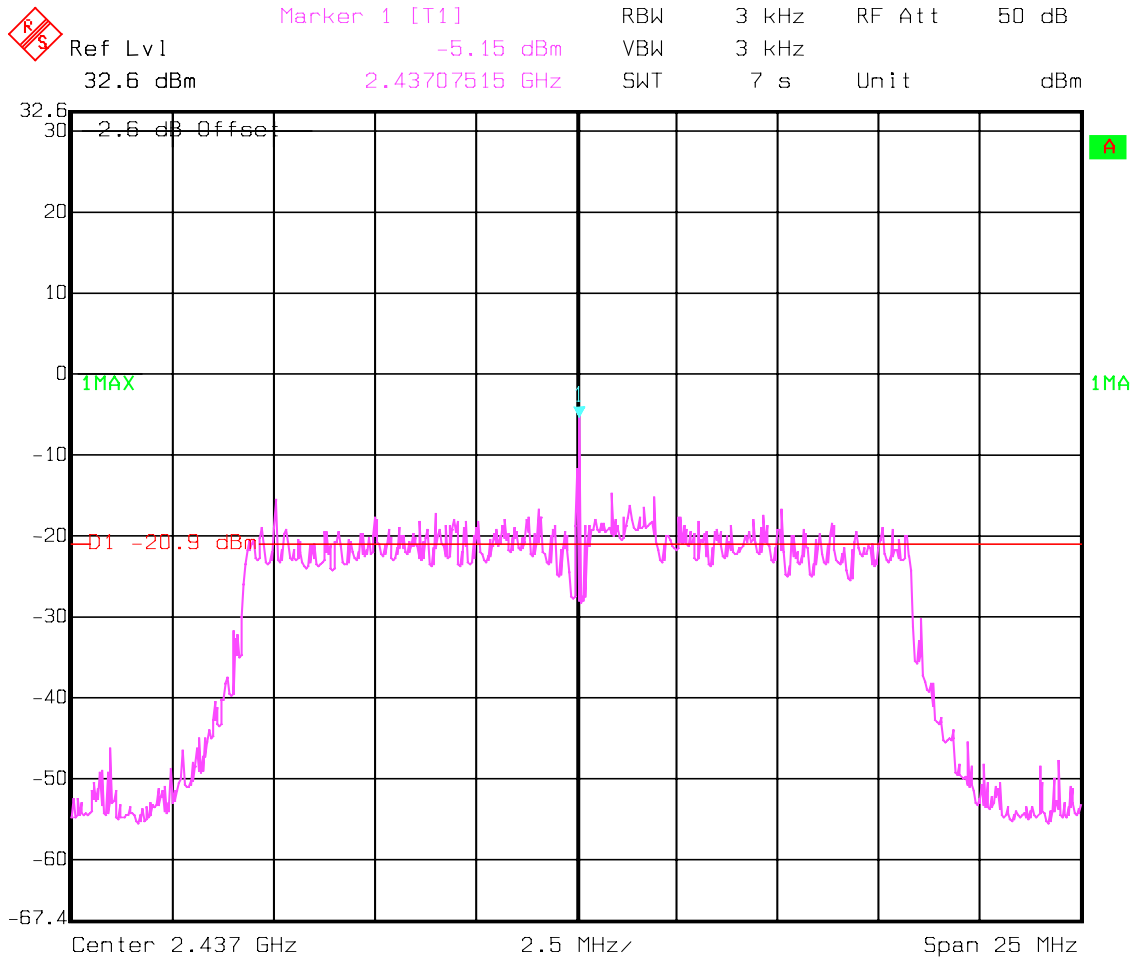
Lowest Channel: 2412MHz



POWER SPECTRAL DENSITY

§15.247(d)

Mid Channel: 2437MHz

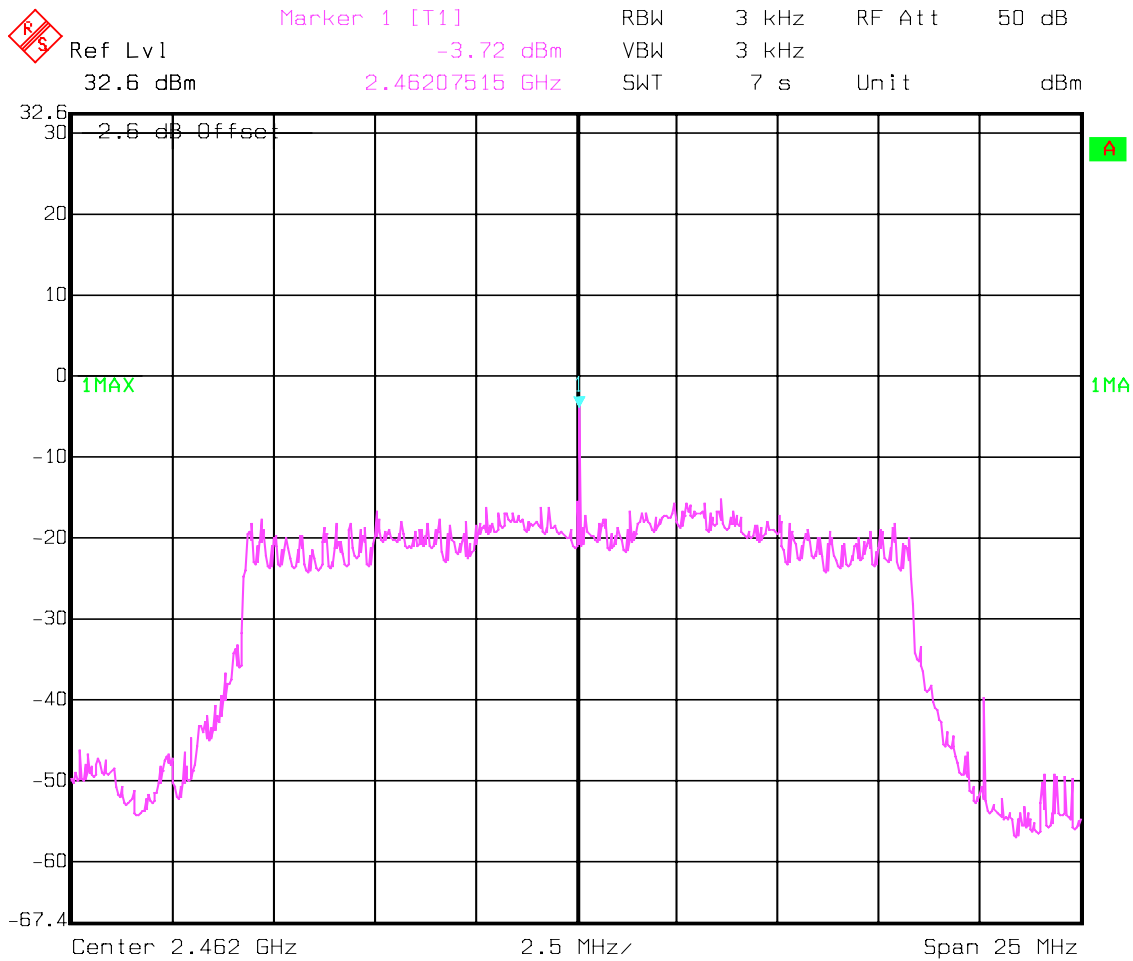


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POWER SPECTRAL DENSITY

§15.247(d)

Highest Channel: 2462MHz



Date: 21.NOV.2002 11:07:24

POWER SPECTRAL DENSITY**RSS-210**

TEST CONDITIONS		POWER SPECTRAL DENSITY (dBm/MHz)		
Frequency (MHz)		2412	2437	2462
T _{nom} (23)°C	V _{nom} (3.3)VDC	*11.77	*8.91	*8.57

*Correction factor of 60dBm is added to convert measured values from dBm/Hz to dBm/Mhz

LIMIT**RSS-210**

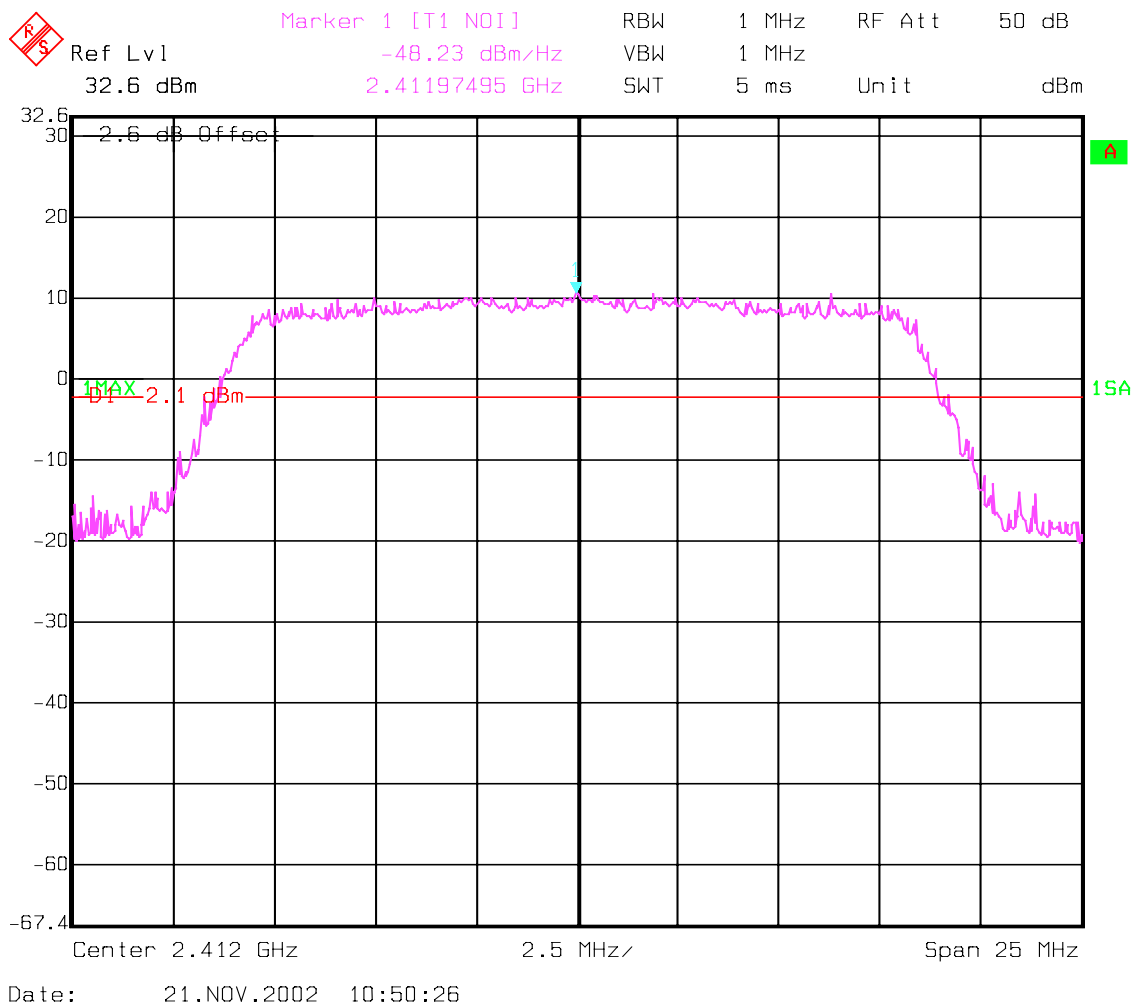
The peak power spectral density shall be $\leq 50\text{mW/MHz}$ (17dBm/MHz)

ANALYZER SETTINGS: RBW=1MHz , VBW=1MHz

POWER SPECTRAL DENSITY

RSS-210

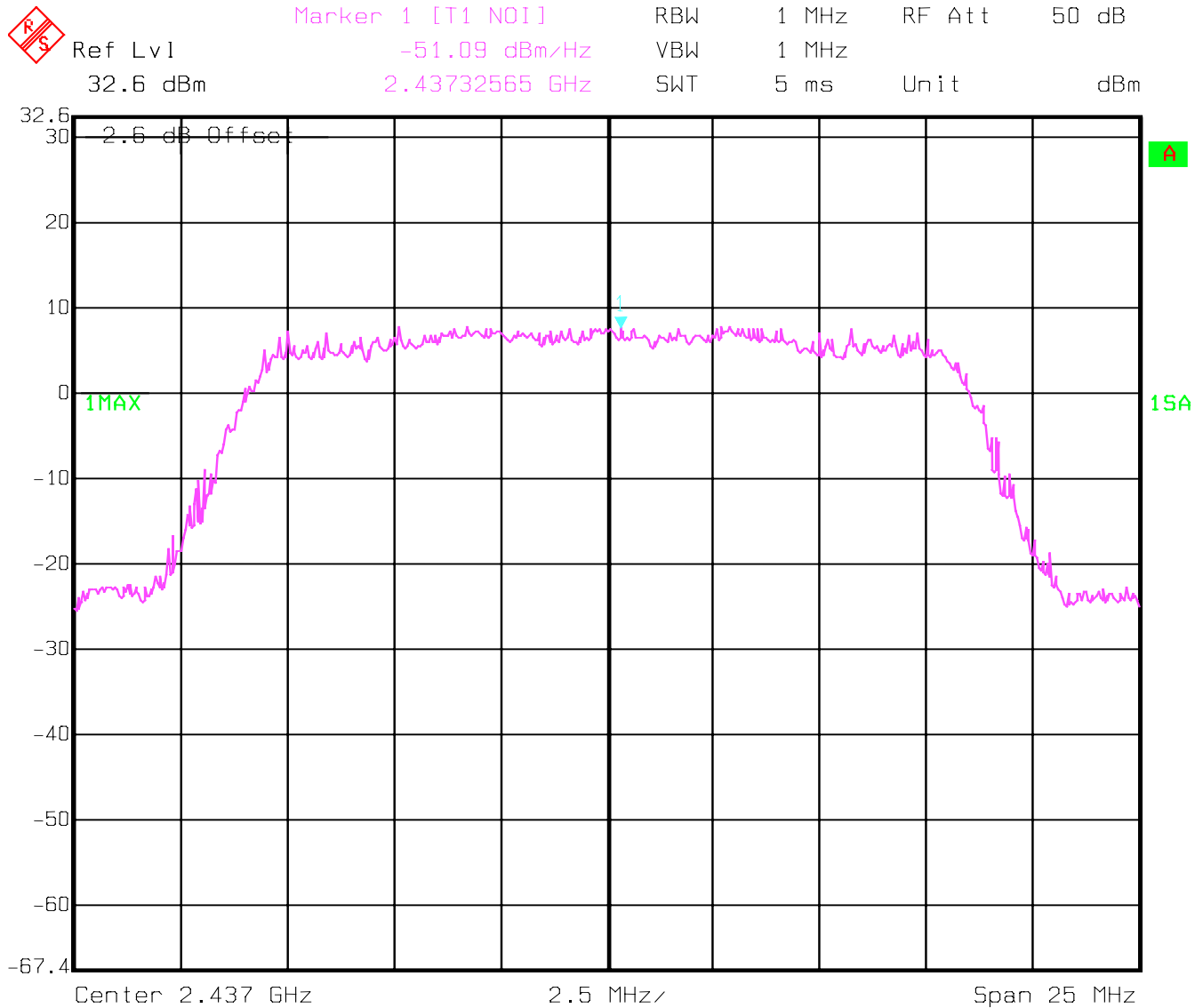
Lowest Channel: 2412MHz



POWER SPECTRAL DENSITY

RSS-210

Mid Channel: 2437MHz



Date: 21.NOV.2002 10:38:53

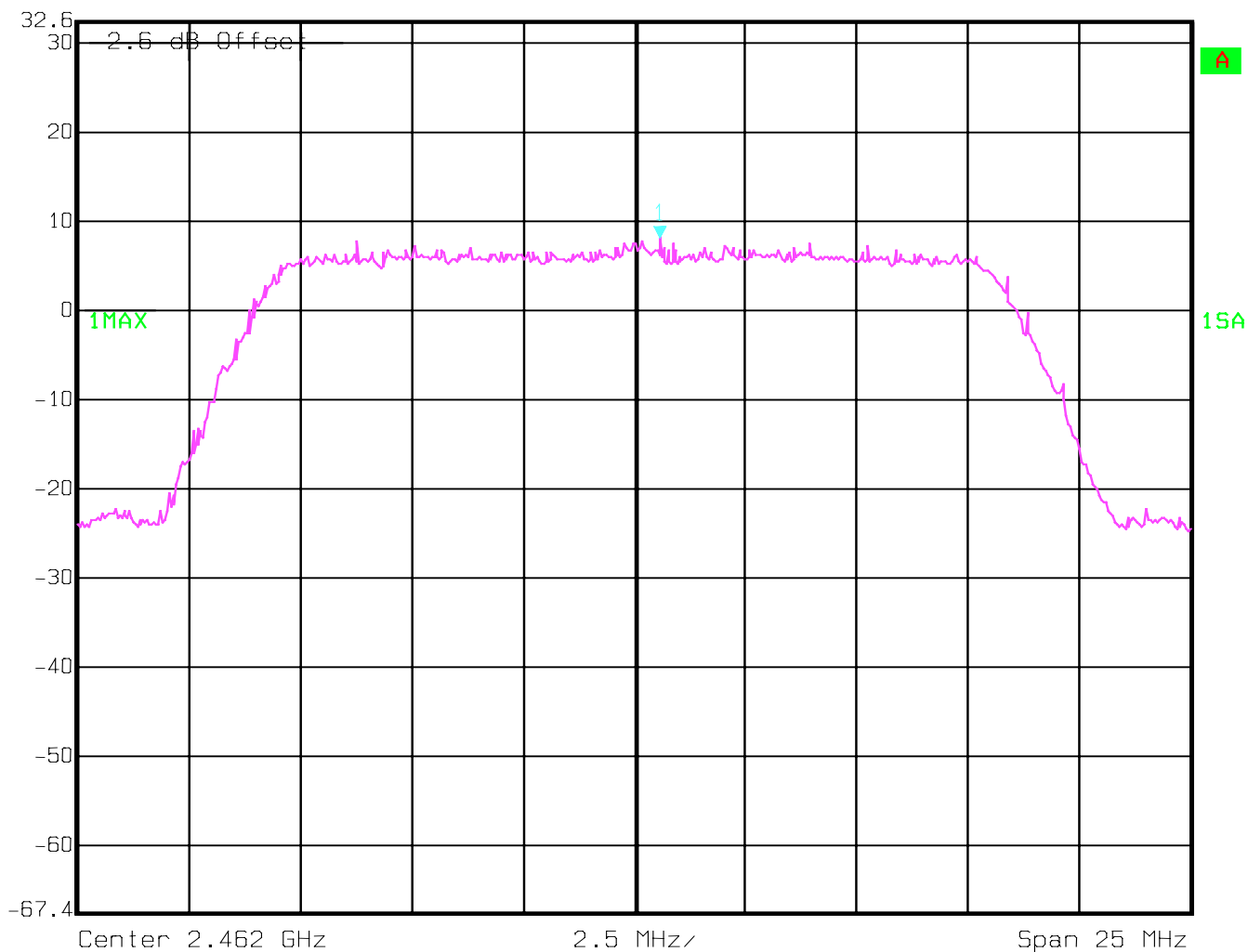
POWER SPECTRAL DENSITY

RSS-210

Highest Channel: 2462MHz



Ref Lvl	Marker 1 [T1 NOI]	RBW	1 MHz	RF Att	50 dB
32.6 dBm	-51.43 dBm/Hz	VBW	1 MHz		
	2.46257615 GHz	SWT	5 ms	Unit	dBm



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BAND EDGE COMPLIANCE

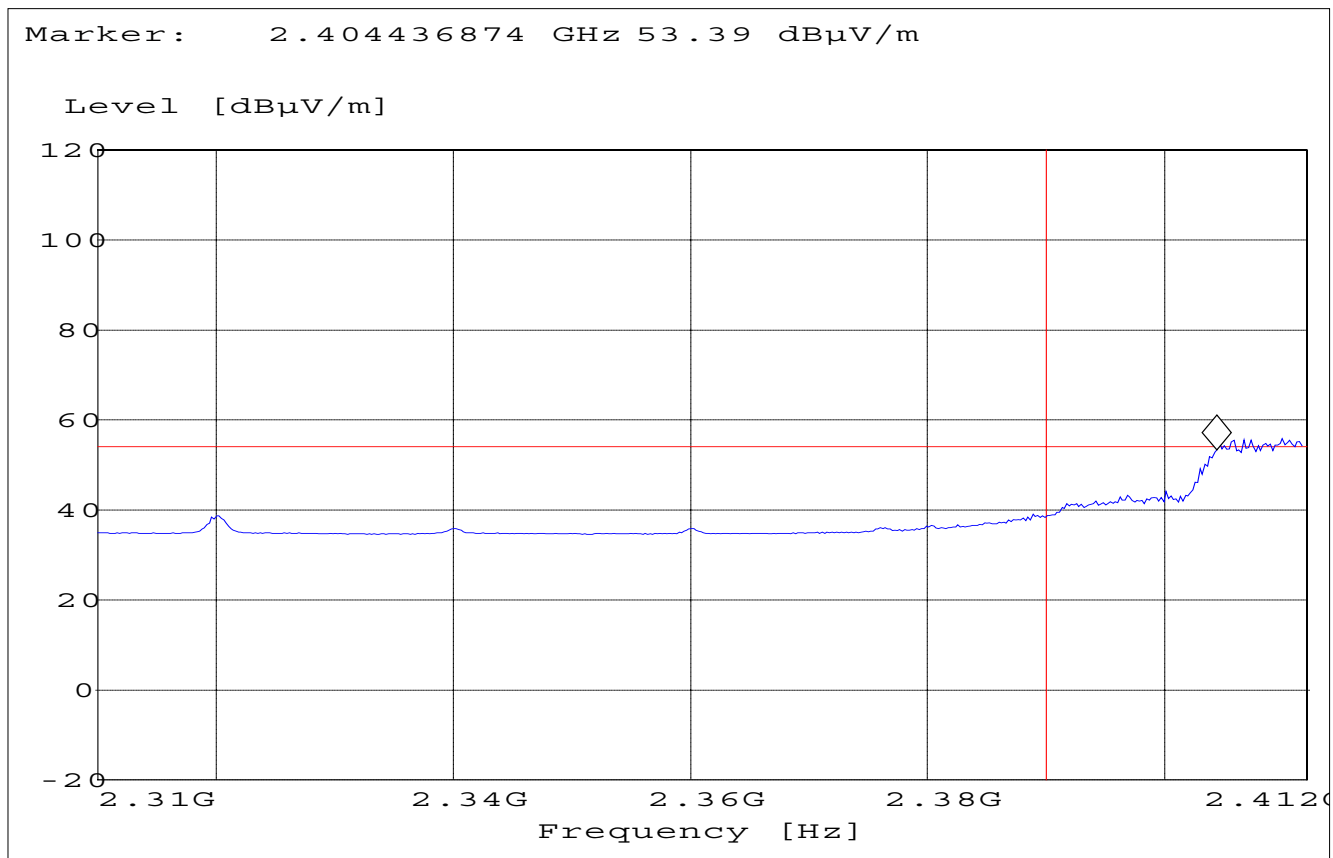
§15.247 (c)

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

(Average measurement)

Operating condition : Tx at 2412MHz
 SWEEP TABLE : "FCC15.247 LBE_AVG"
 Limit Line : 54dBμV

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



BAND EDGE COMPLIANCE

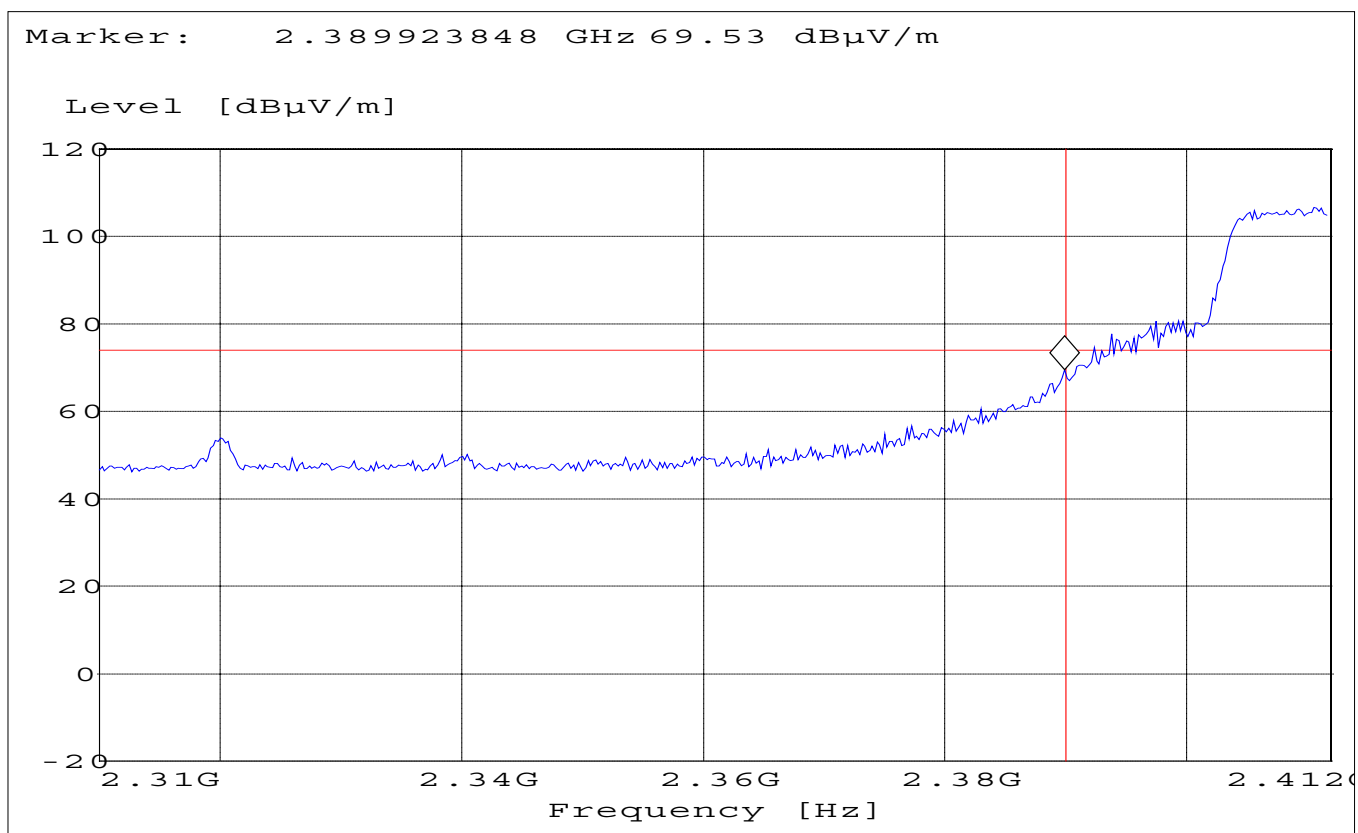
§15.247 (c)

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

(Peak measurement)

Operating condition : Tx at 2412MHz
 SWEEP TABLE : "FCC15.247 LBE_Pk"
 Limit Line : 74dBμV

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



BAND EDGE COMPLIANCE

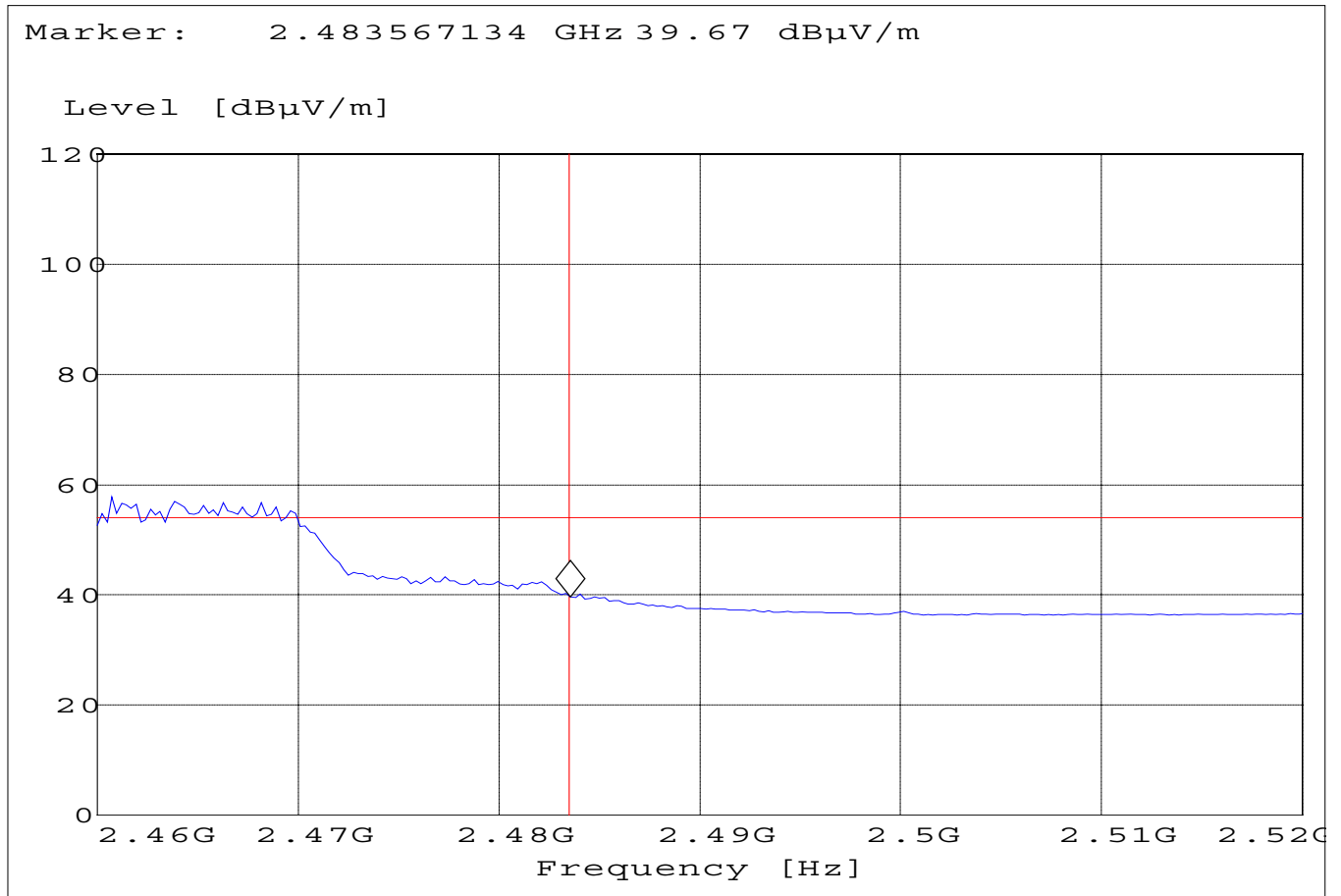
§15.247 (c)

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

(Average measurement)

Operating condition : Tx at 2472MHz
 SWEEP TABLE : "FCC15.247 HBE_AVG"
 Limit Line : 54dBμV

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

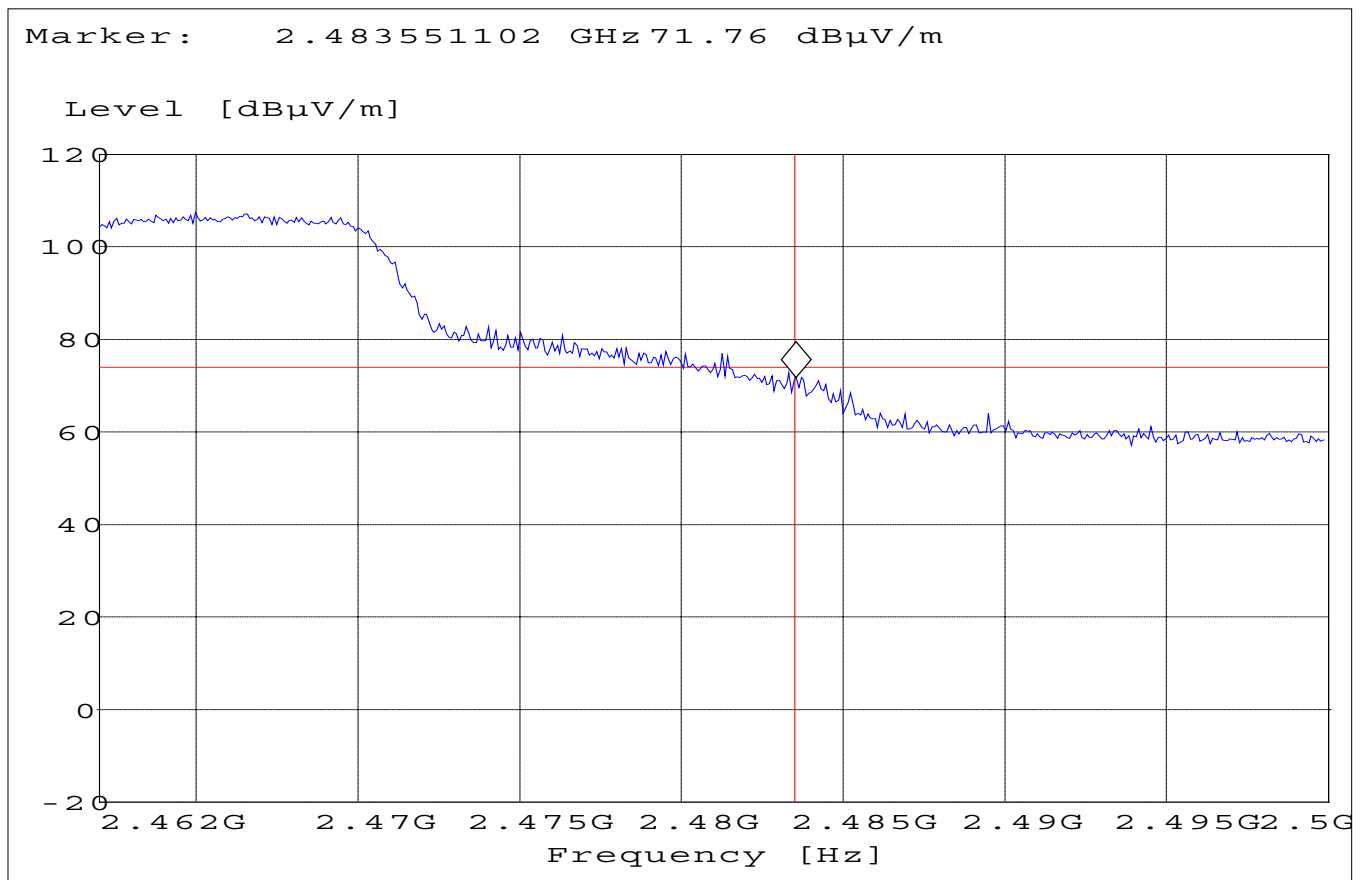
§15.247 (c)

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

(Peak measurement)

Operating condition : Tx at 2472MHz
 SWEEP TABLE : "FCC15.247 HBE_PK"
 Limit Line : 74dBμV

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



EMISSION LIMITATIONS**§ 15.247 (c) (1)****Transmitter (Conducted)****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 which 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)).

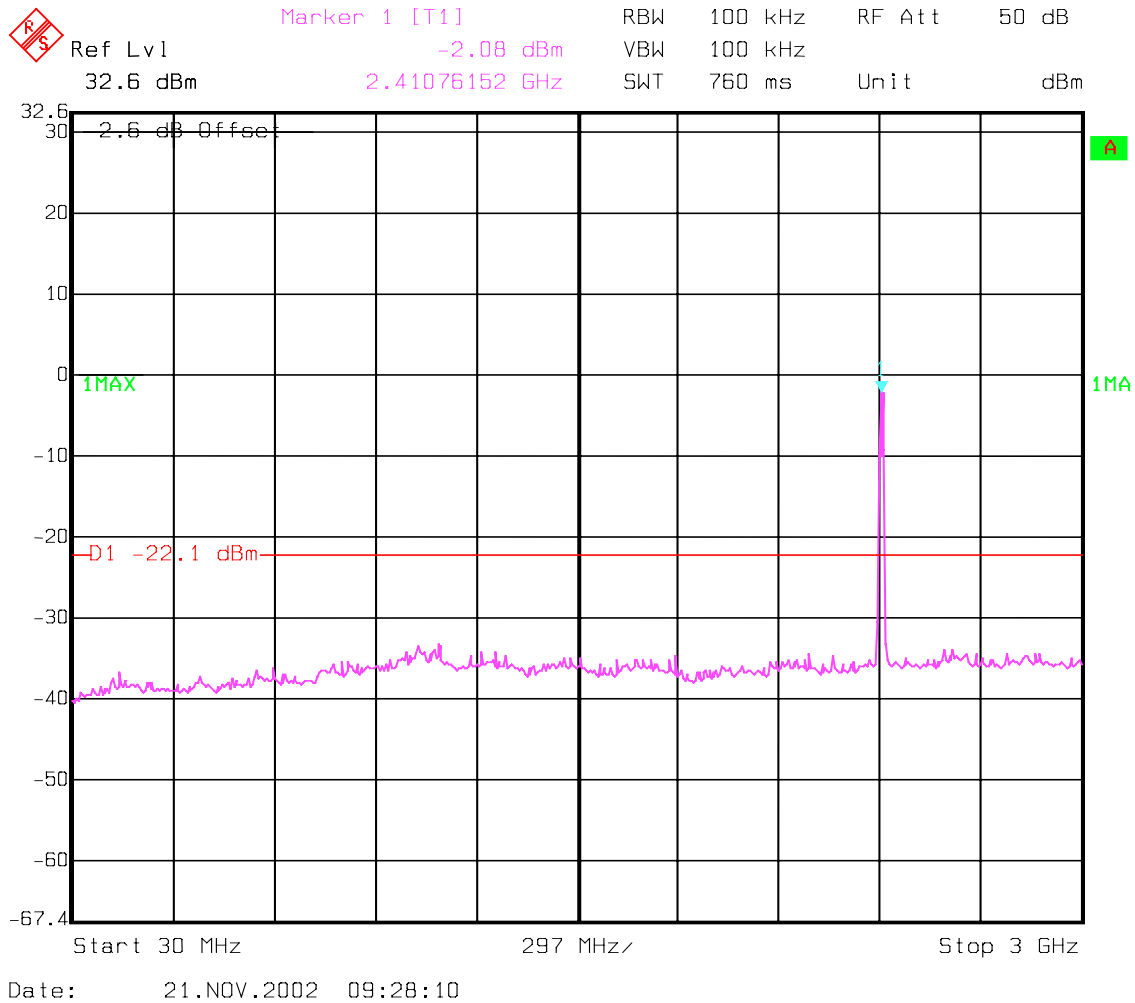
NOTE: Frequency resolution is not fine enough to show the exact frequency of the carrier, refer to plots under EIRP.

EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Lowest Channel(2412MHz): 30MHz - 3GHz

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

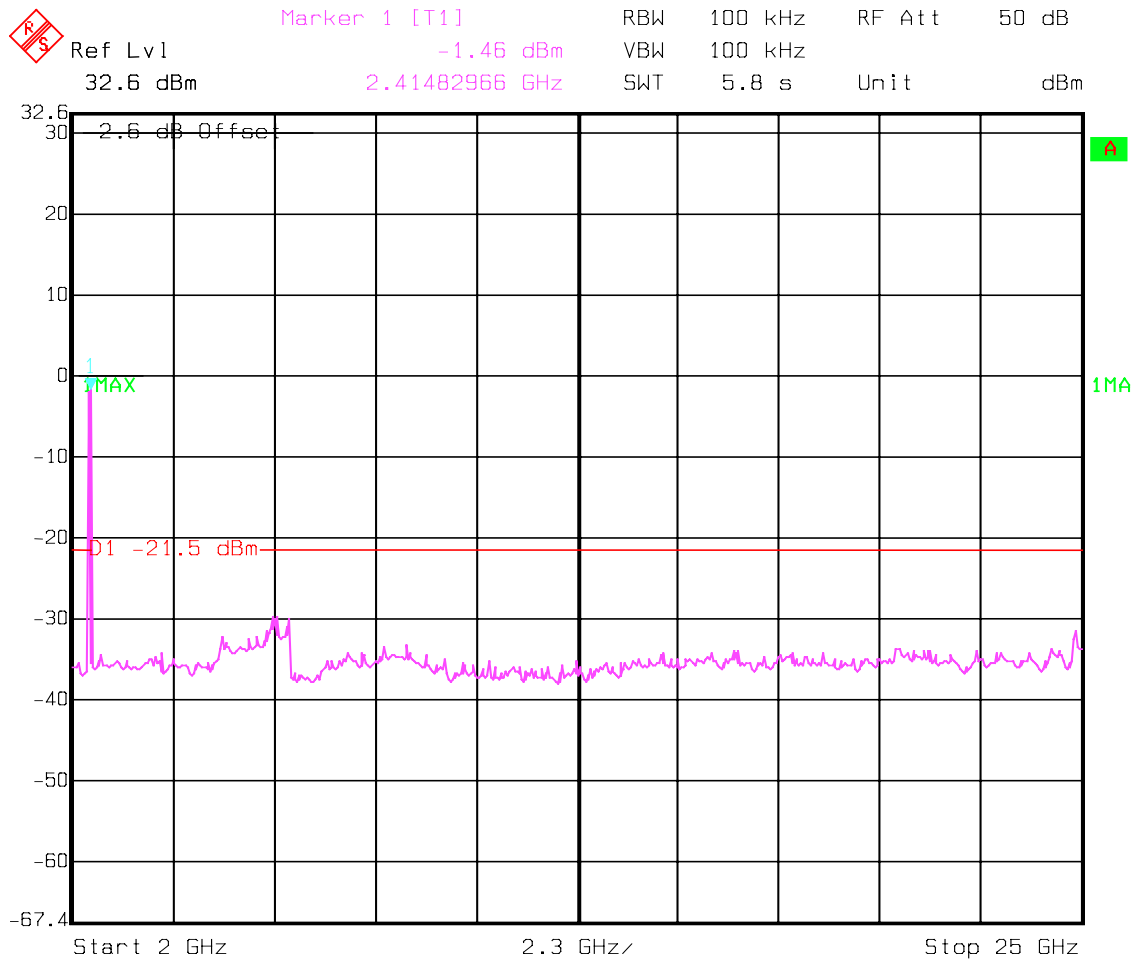


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Lowest Channel(2412MHz): 2GHz - 25GHz

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



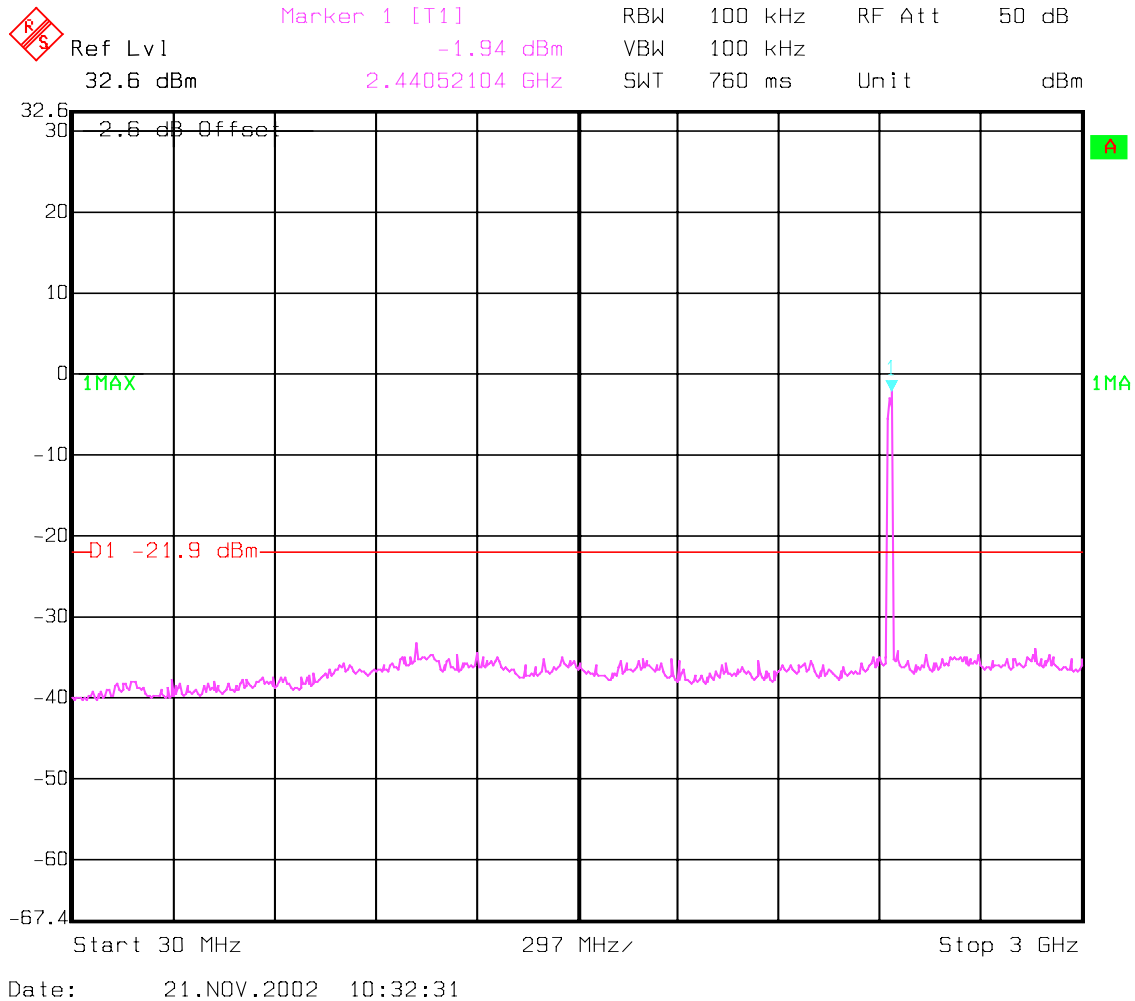
Date: 21.NOV.2002 09:30:51

EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Mid Channel(2437MHz): 30MHz - 3GHz

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

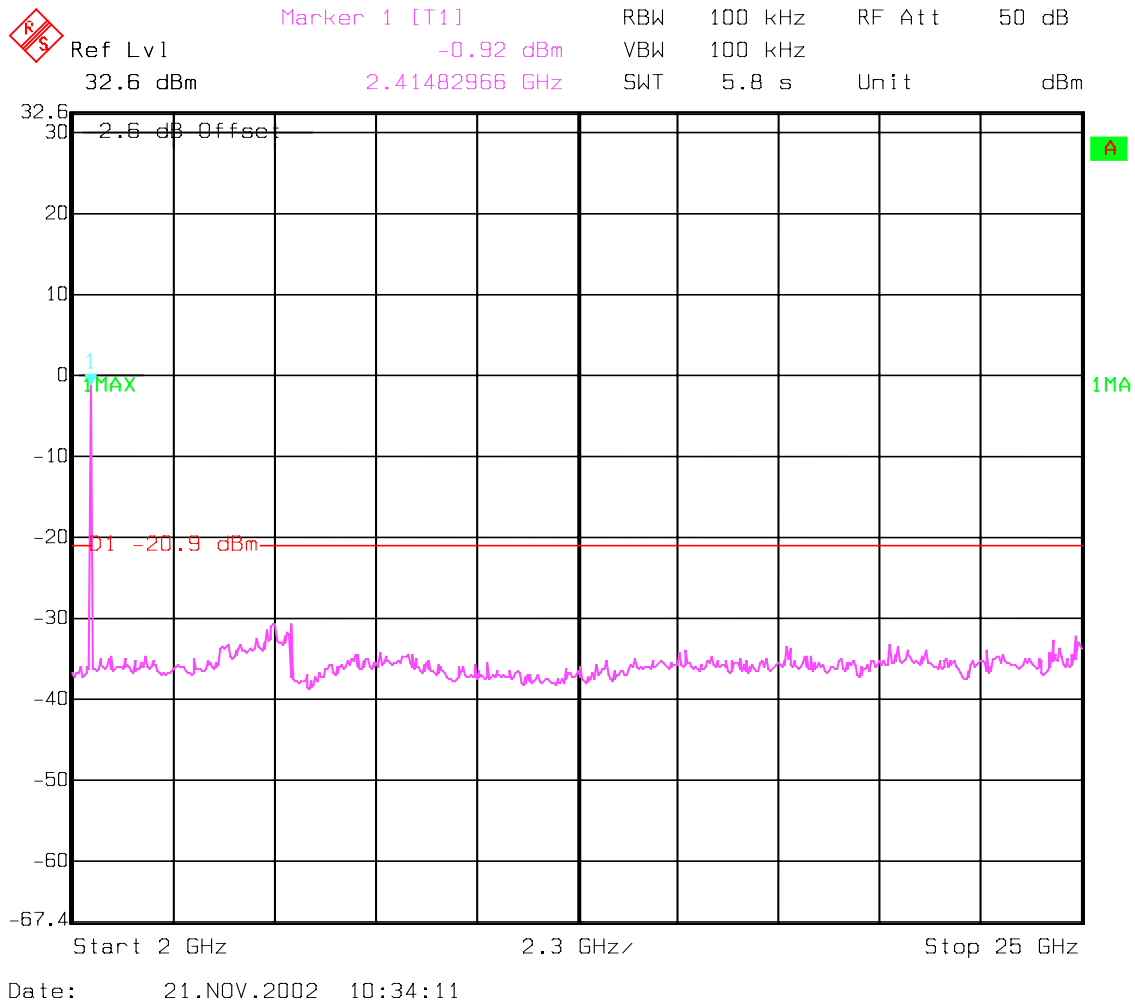


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Mid Channel(2437MHz): 2GHz - 25GHz

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

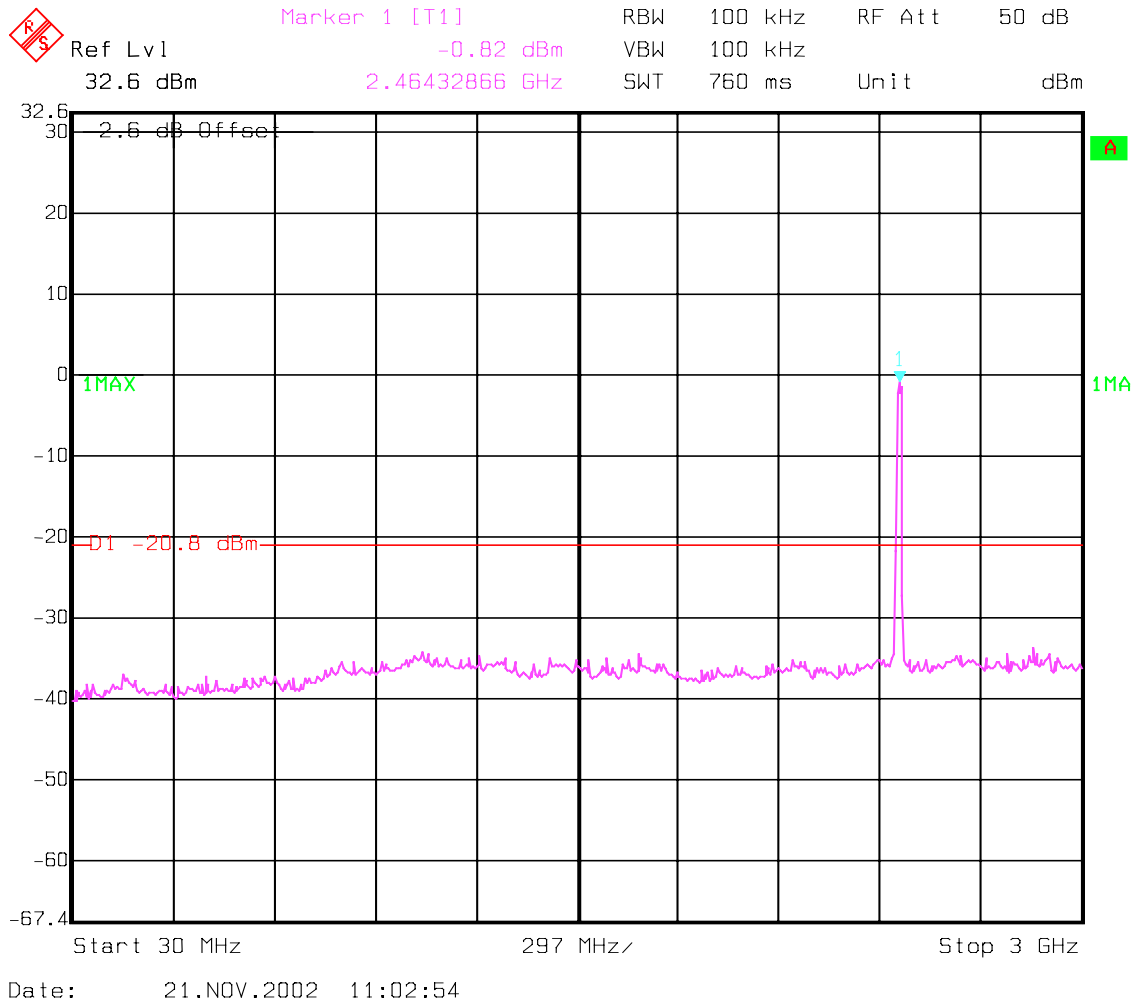


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Highest Channel(2462MHz): 30MHz - 3GHz

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

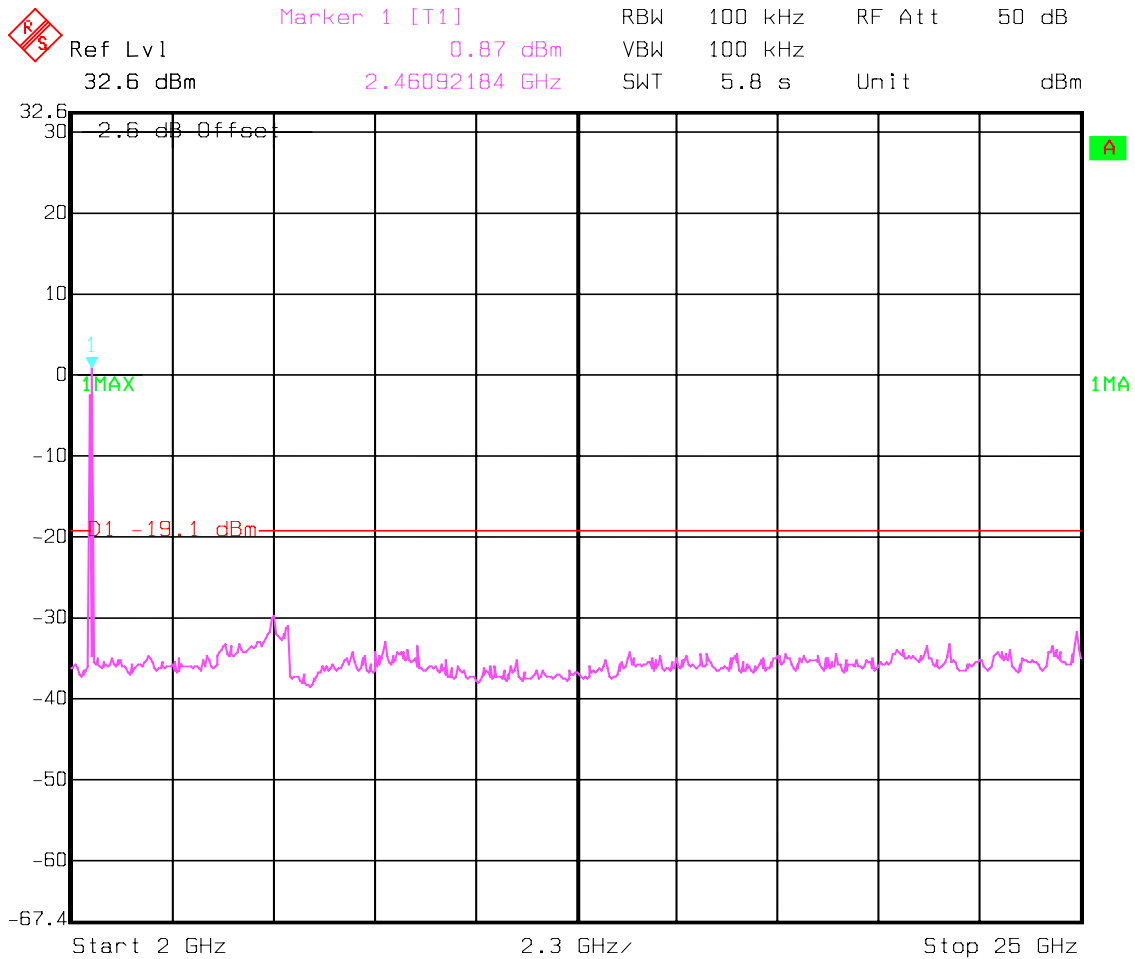


EMISSION LIMITATIONS - Conducted (Transmitter)

§ 15.247 (c) (1)

Highest Channel(2462MHz): 2GHz - 25GHz

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



Date: 21.NOV.2002 11:04:51

EMISSION LIMITATIONS**§ 15.247 (c) (1)****Transmitter (Radiated)****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 which 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 18 and 25 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 were carried out in peak mode.

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.

Tx ch-Low 2412 MHz		Tx ch-Mid 2437 MHz		Tx ch-High 2462 MHz	
Freq.(MHz)	Level (dB μ V/m)	Freq.(MHz)	Level (dB μ V/m)	Freq.(MHz)	Level (dB μ V/m)
3210.4	45.96	3240.5	41.5	3270.5	39.96
7238.4	51.95	7298.6	52.57	7388.8	49.81
12048	37.92	9733.5	35.91	9853.7	33.17
		12198.4	36.78	12318.6	42.64

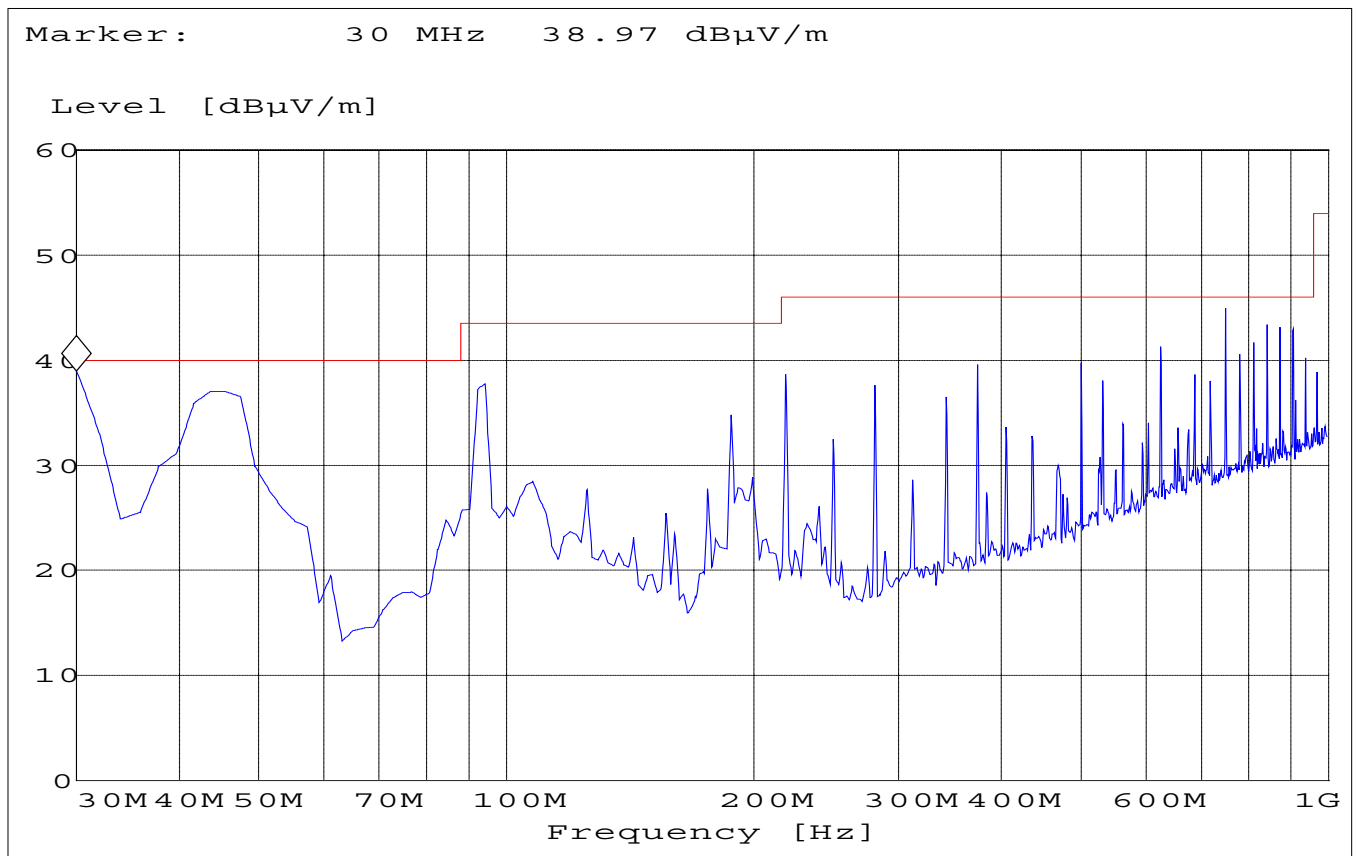
EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Lowest Channel(2412MHz): 30MHz – 1GHz

Note: This plot is valid for all three(low,mid,high) channels.

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



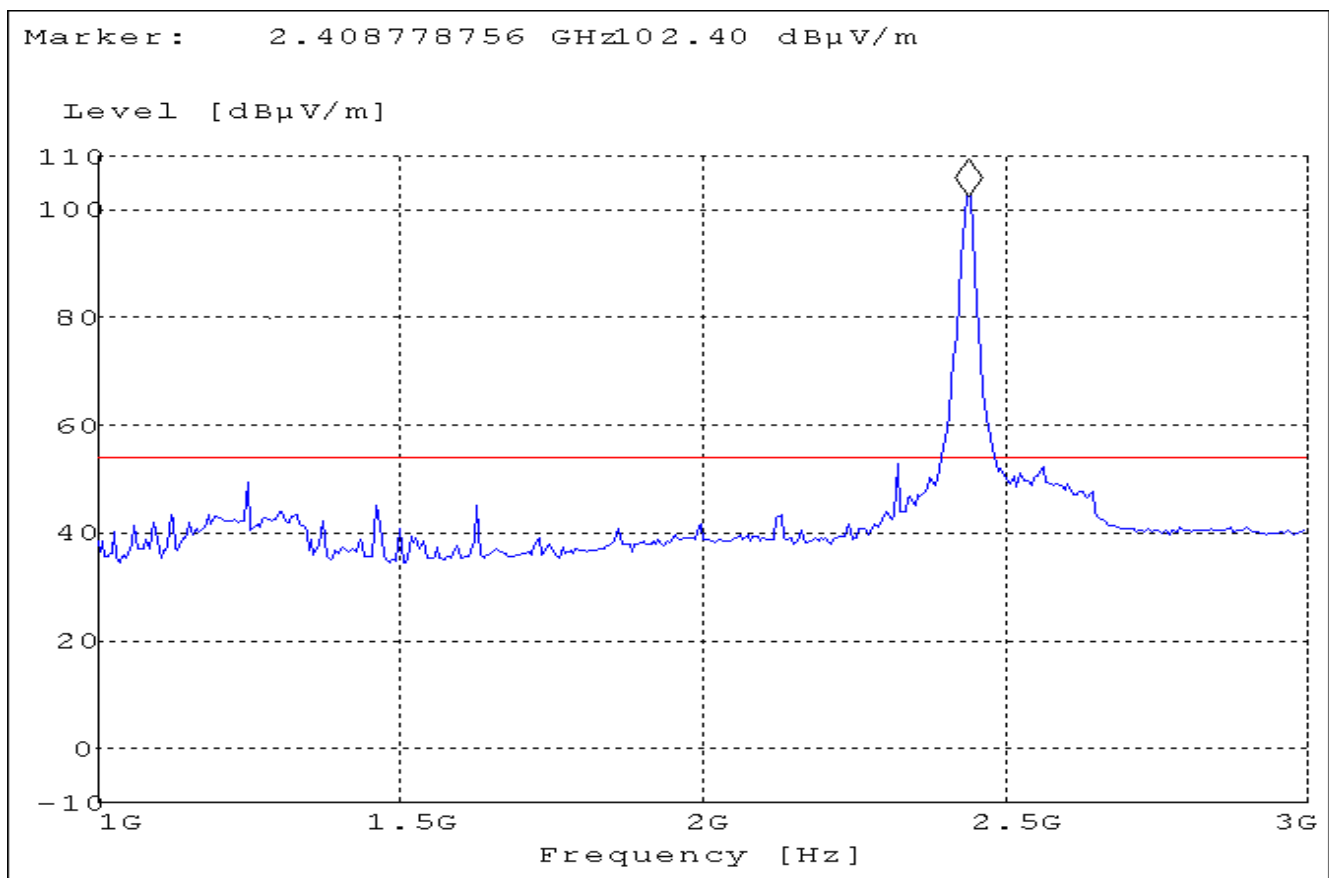
EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Lowest Channel(2412MHz): 1GHz – 3GHz

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)

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

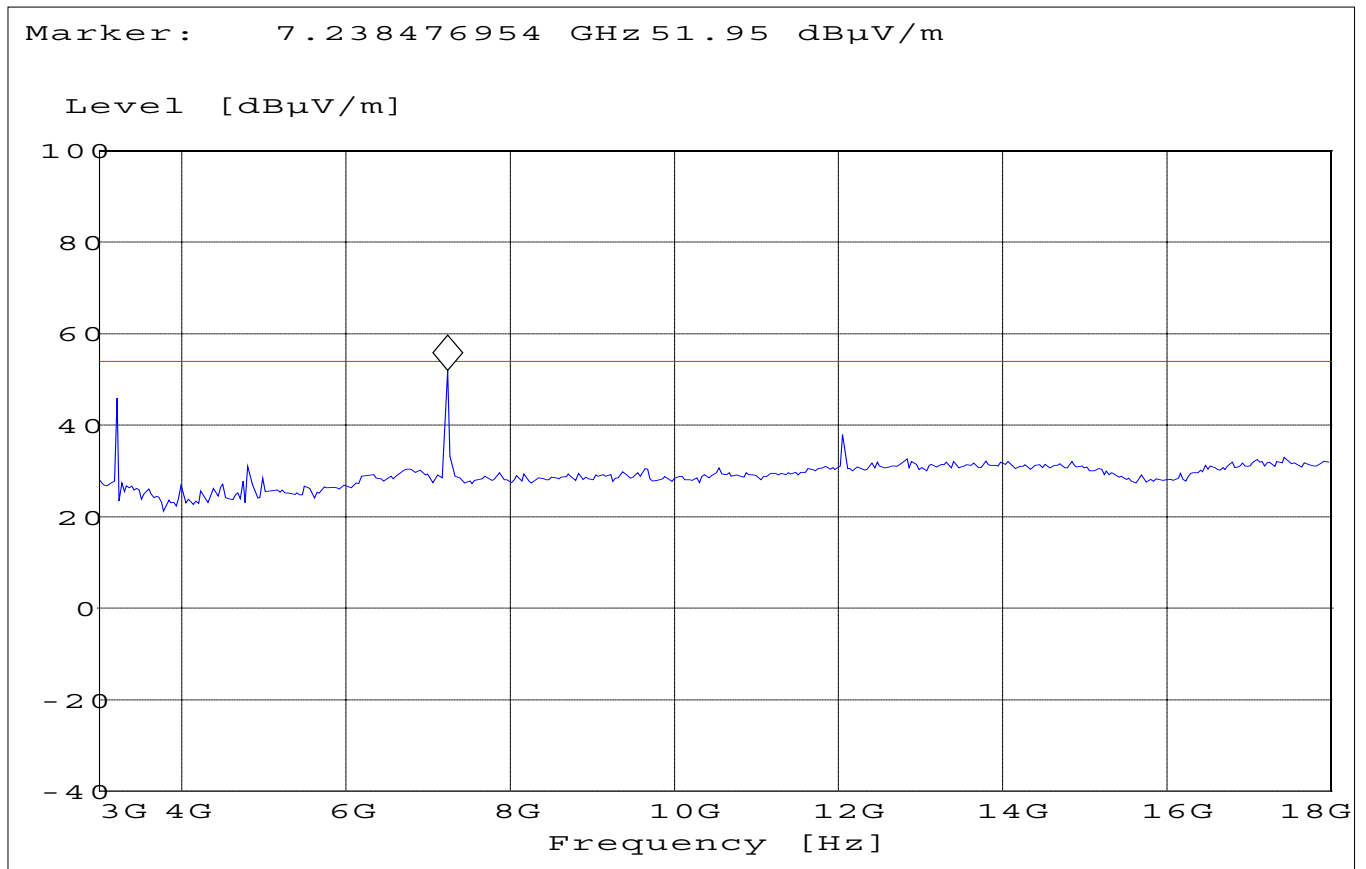


EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Lowest Channel(2412MHz): 3GHz – 18GHz

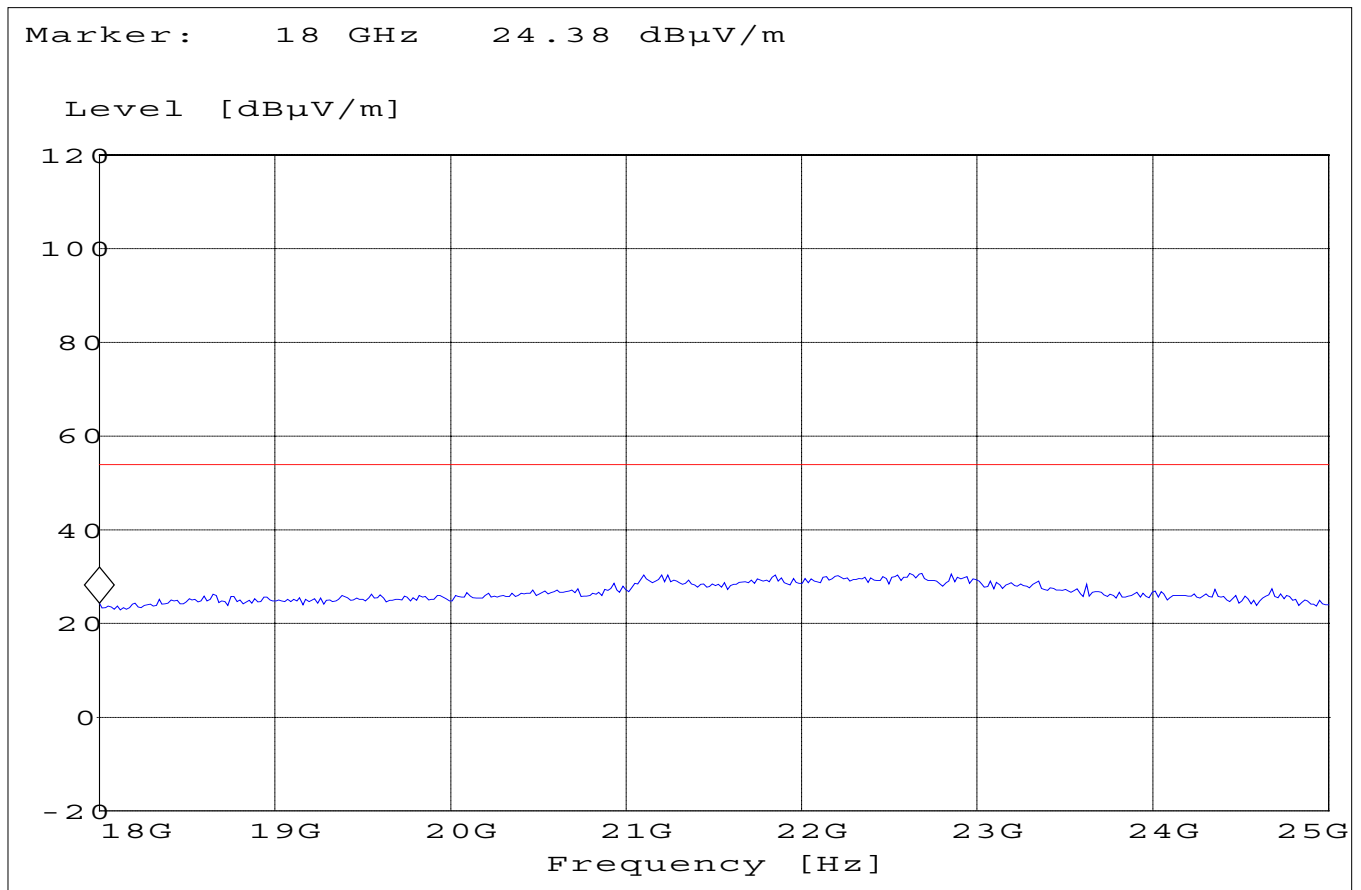
SWEEP TABLE:		"BT Spuri hi 3-18G"			
Short Description:		Bluetooth Spurious 3-18 GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



EMISSION LIMITATIONS - Radiated (Transmitter) Lowest Channel(2412MHz): 18GHz – 25GHz

§ 15.247 (c) (1)

SWEEP TABLE:		"BT Spuri hi 18-25G"			
Short Description:		Bluetooth Spurious 18-25 GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
18.0 GHz	25 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



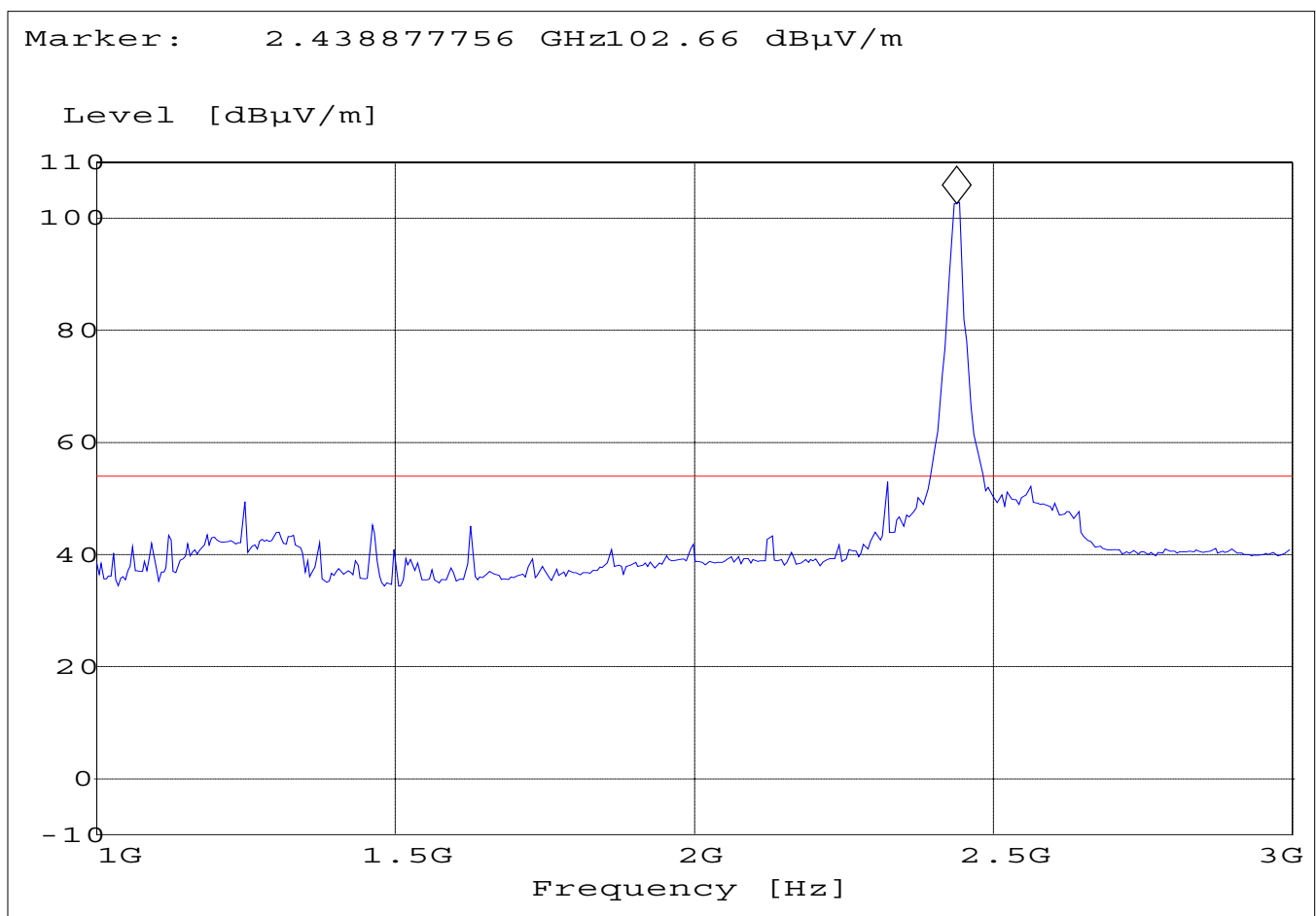
EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Middle Channel(2437MHz): 1GHz – 3GHz

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)

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

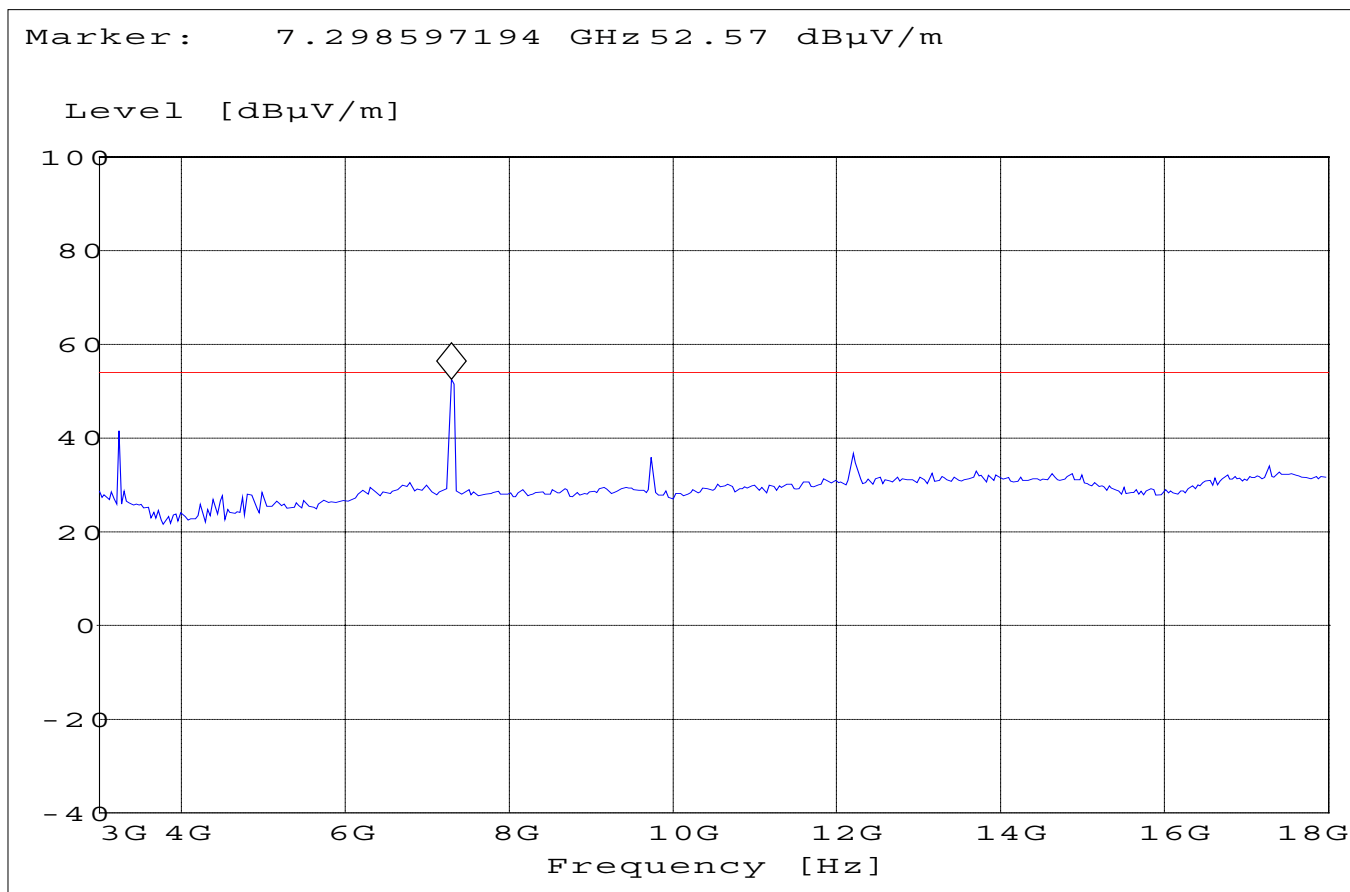


EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Middle Channel(2437MHz): 3GHz – 18GHz

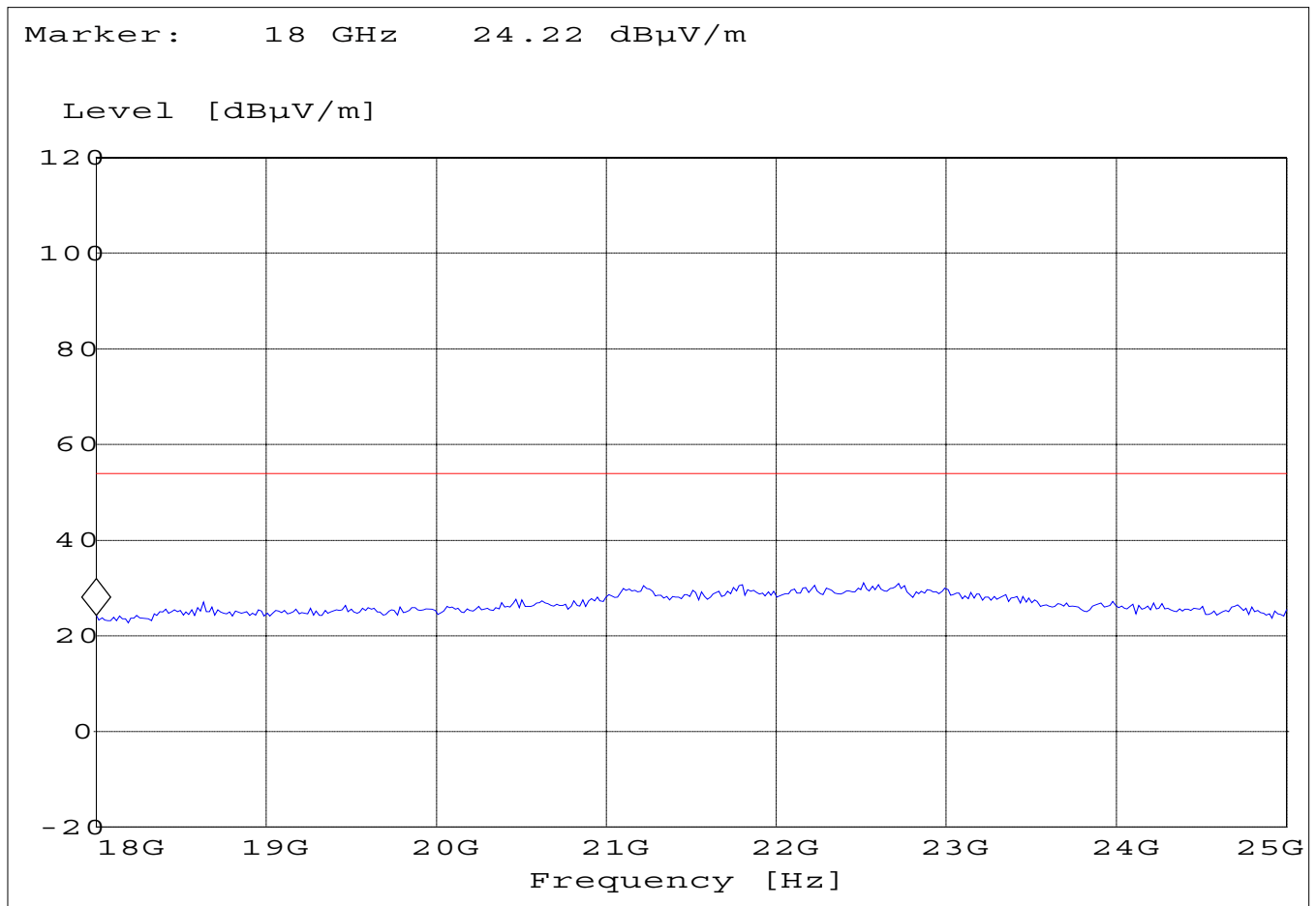
SWEEP TABLE:		"BT Spuri hi 3-18G"			
Short Description:		Bluetooth Spurious 3-18 GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
3.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



EMISSION LIMITATIONS - Radiated (Transmitter) Middle Channel(2437MHz): 18GHz – 25GHz

§ 15.247 (c) (1)

SWEEP TABLE:		"BT Spuri hi 18-25G"			
Short Description:		Bluetooth Spurious 18-25GHz			
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
1.8 GHz	25 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



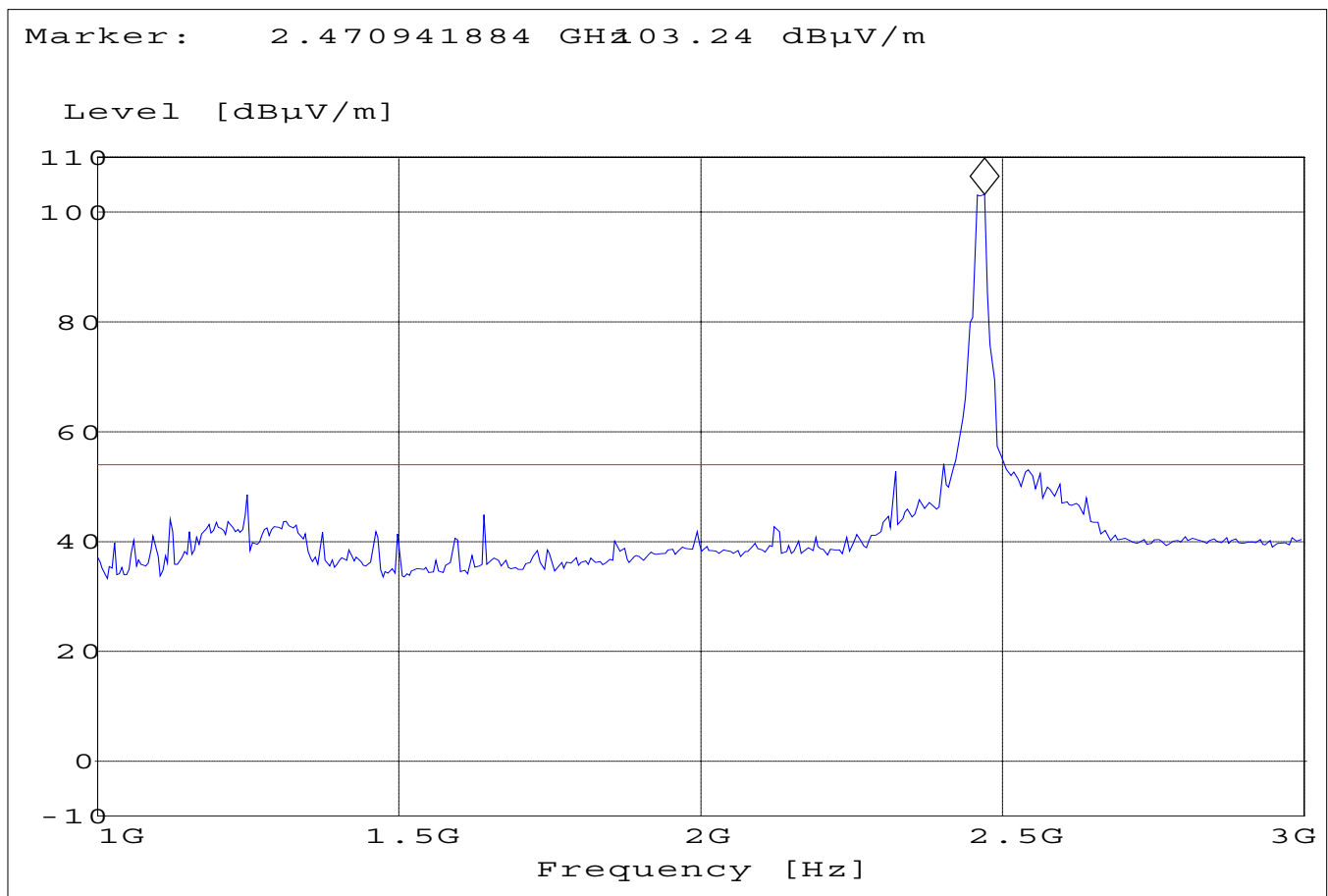
EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Highest Channel(2462MHz): 1GHz – 3GHz

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)

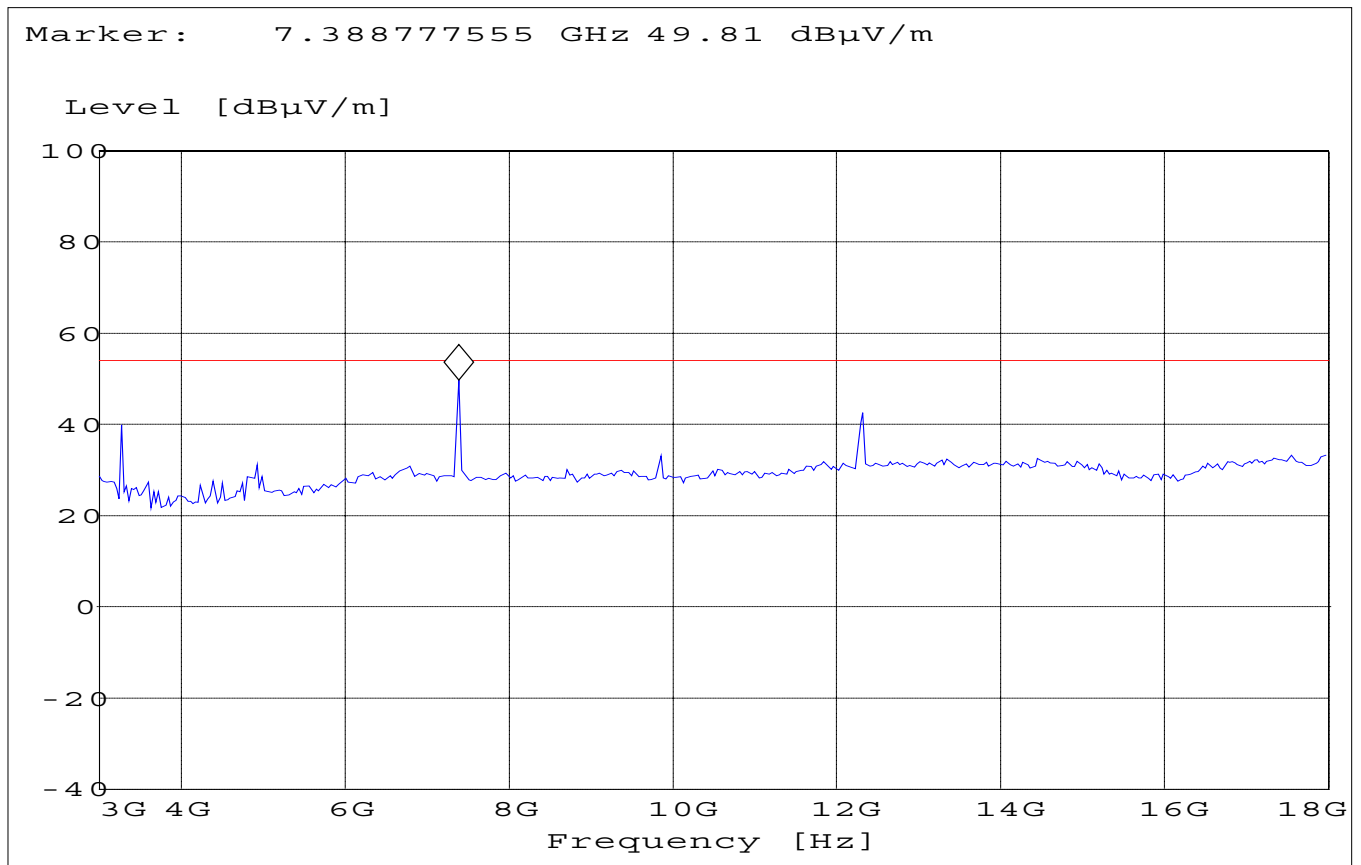
NOTE: The peak above the limit line is the carrier frequency.



EMISSION LIMITATIONS - Radiated (Transmitter) Highest Channel(2462MHz): 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)

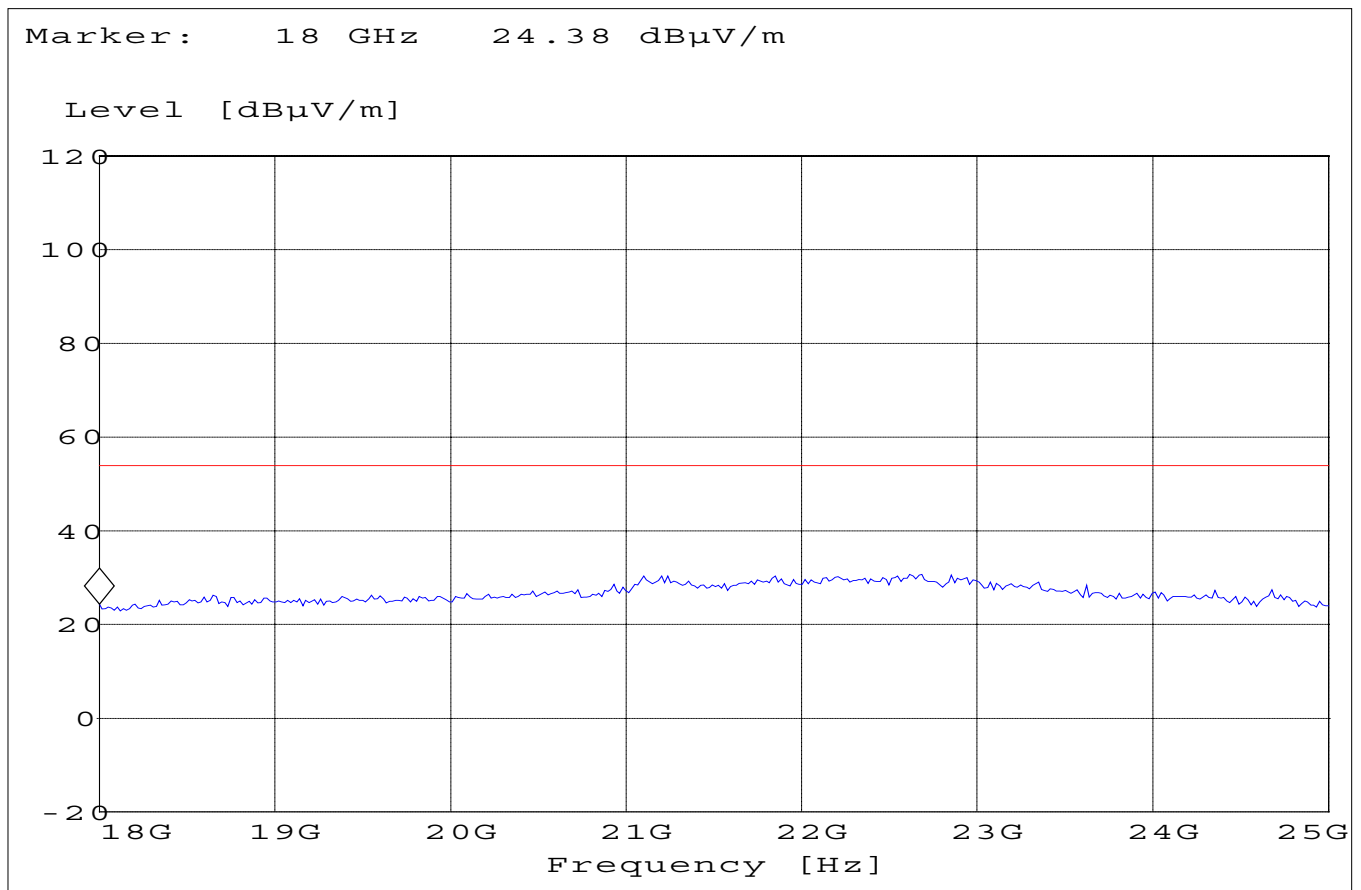


EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

Highest Channel(2462MHz): 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	
18.0 GHz	25.0 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



CONDUCTED EMISSIONS

§ 15.107/207

Measured with AC/DC power adapter

SWEEP TABLE: "55022 cond"

Short Description: EN 55022 for 150KHz-30MHz

Start	Stop	Detector	Meas	IF	Transducer
Frequency	Frequency		Time	Bandw.	
150.0 kHz	30.0 MHz	MaxPeak	Coupled	10 kHz	None

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

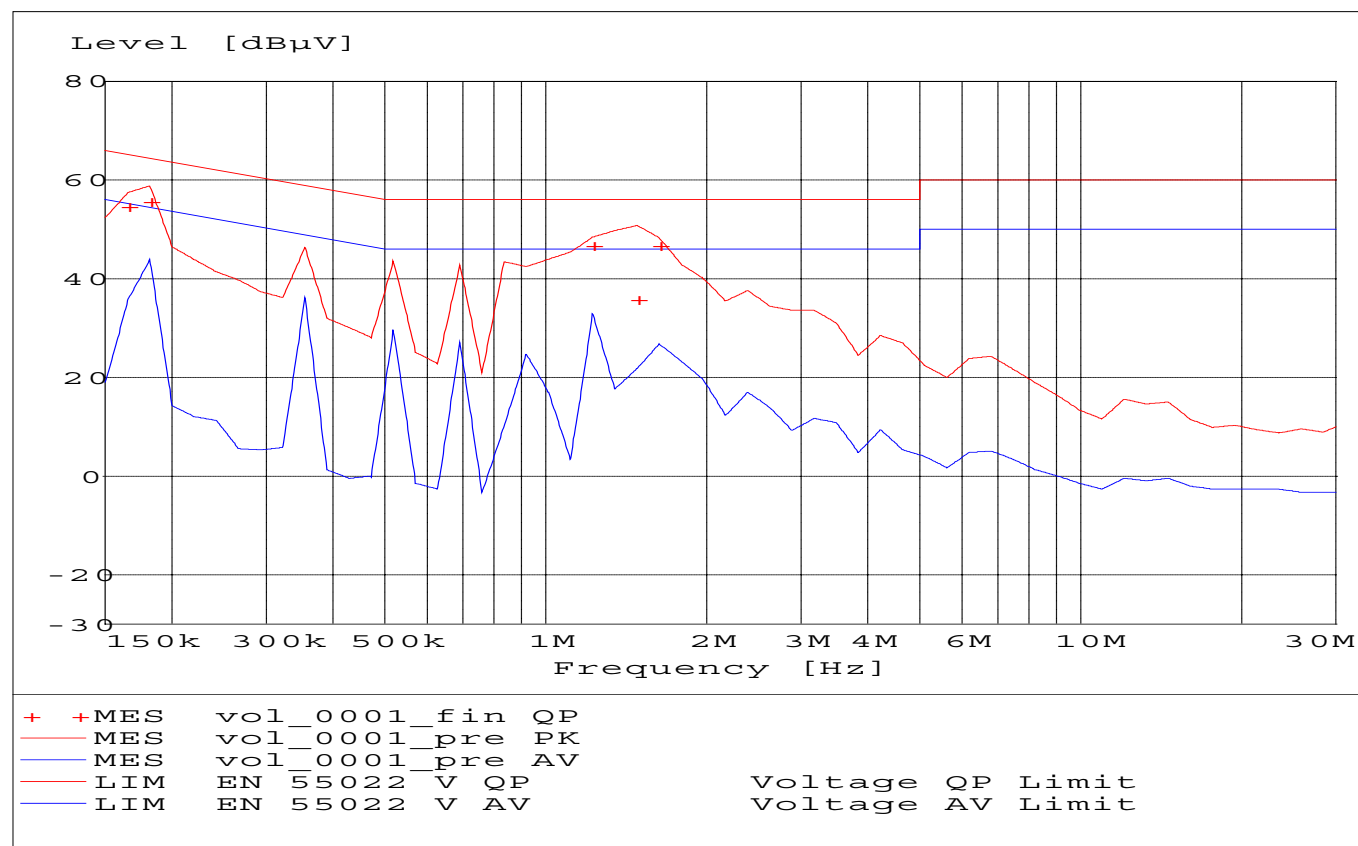
Limit

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: "vol_0001_fin QP"

11/22/02 8:24AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.165000	54.70	0.0	65	10.5	2	---
0.181500	55.90	0.0	64	8.5	1	---
1.221041	46.80	0.0	56	9.2	2	---
1.477460	35.90	0.0	56	20.1	1	---
1.625206	46.90	0.0	56	9.1	1	---

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:

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 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

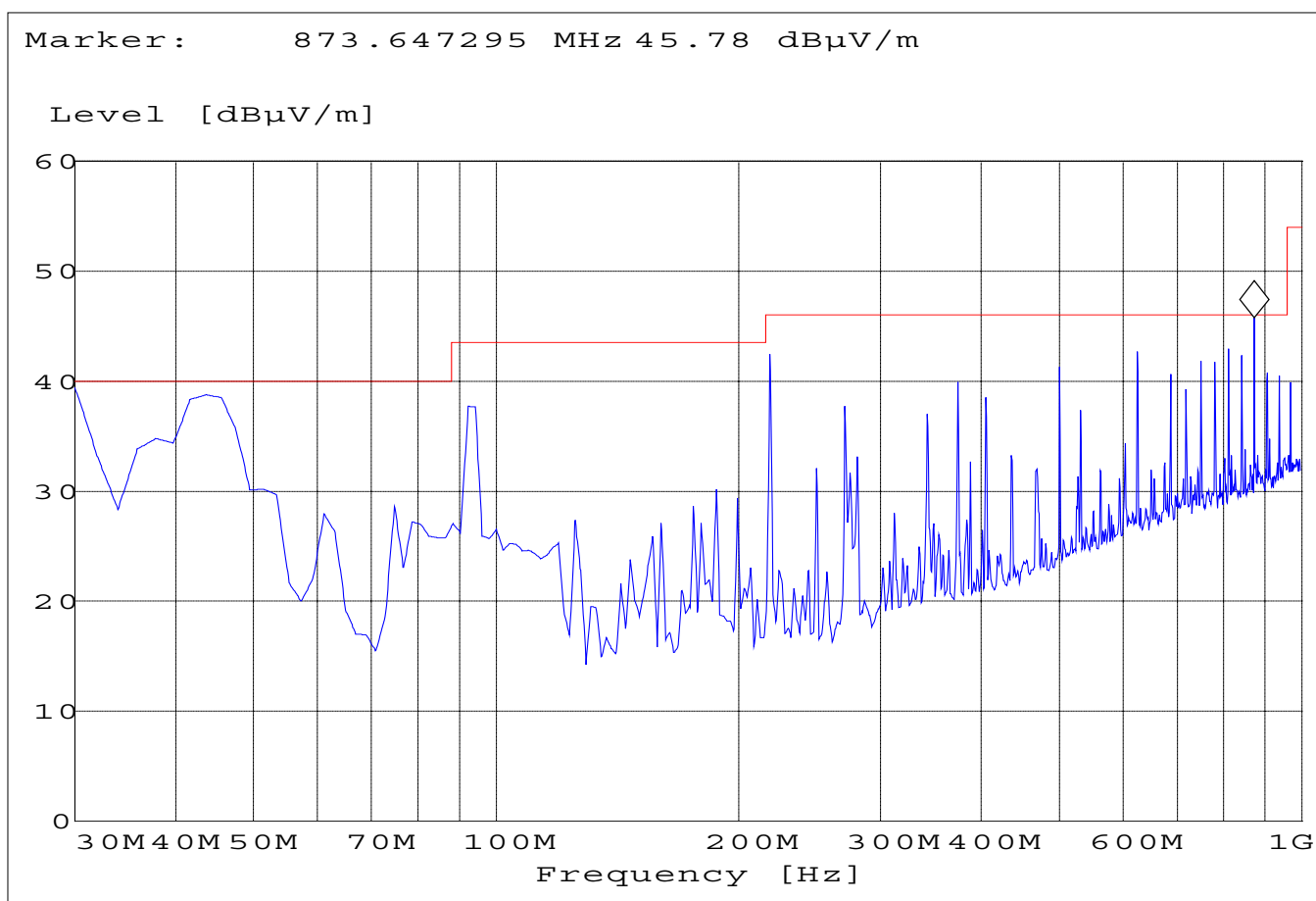
MaxPeak

Coupled

100 kHz

3141-#1186

Note: The marked freq. was found 4.5 dB below the limit line when subjected to Quasi-peak.



RECEIVER SPURIOUS RADIATION

§ 15.209

1GHz – 3GHz

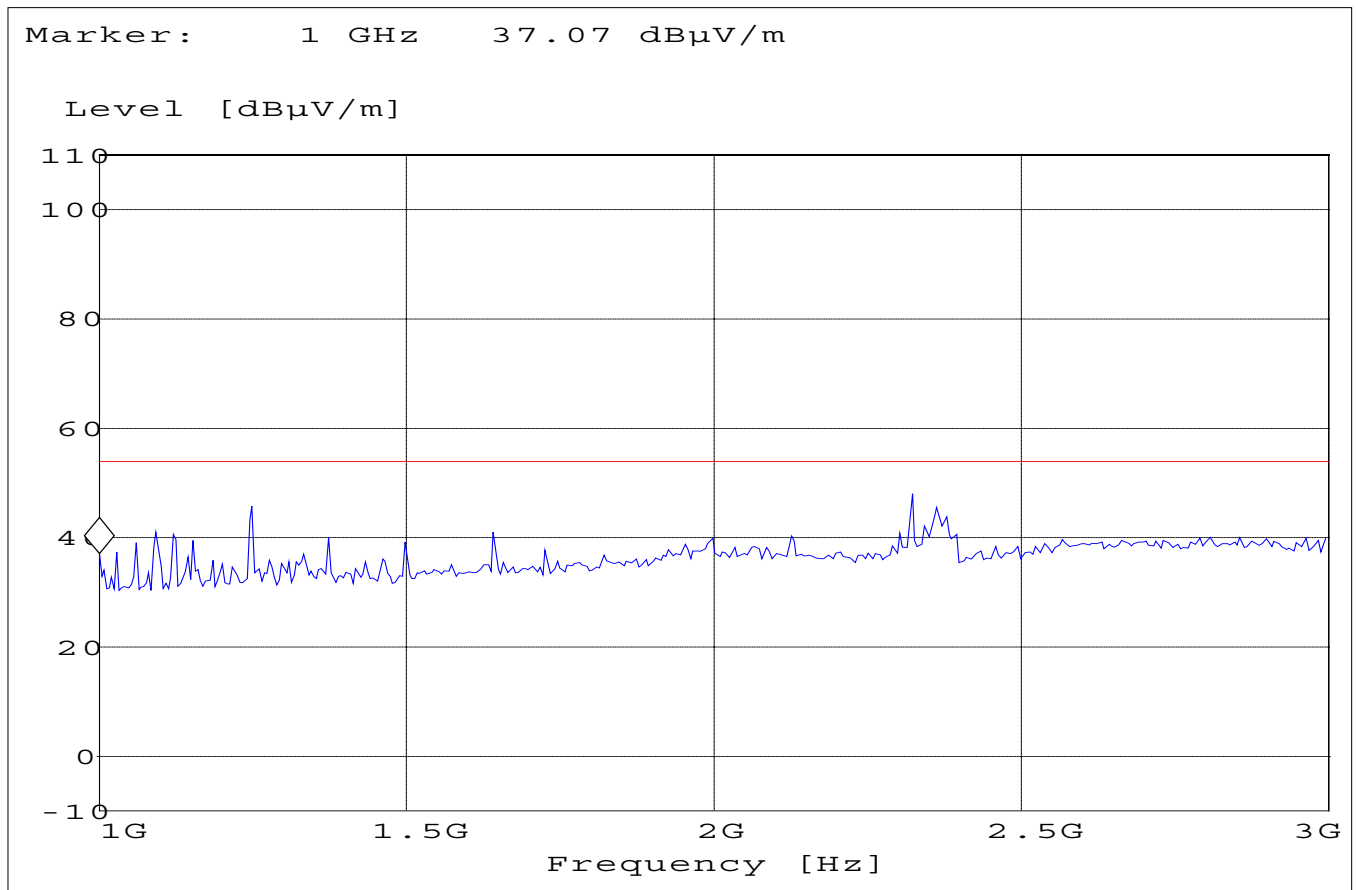
SWEEP TABLE:

"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)



RECEIVER SPURIOUS RADIATION

§ 15.209

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

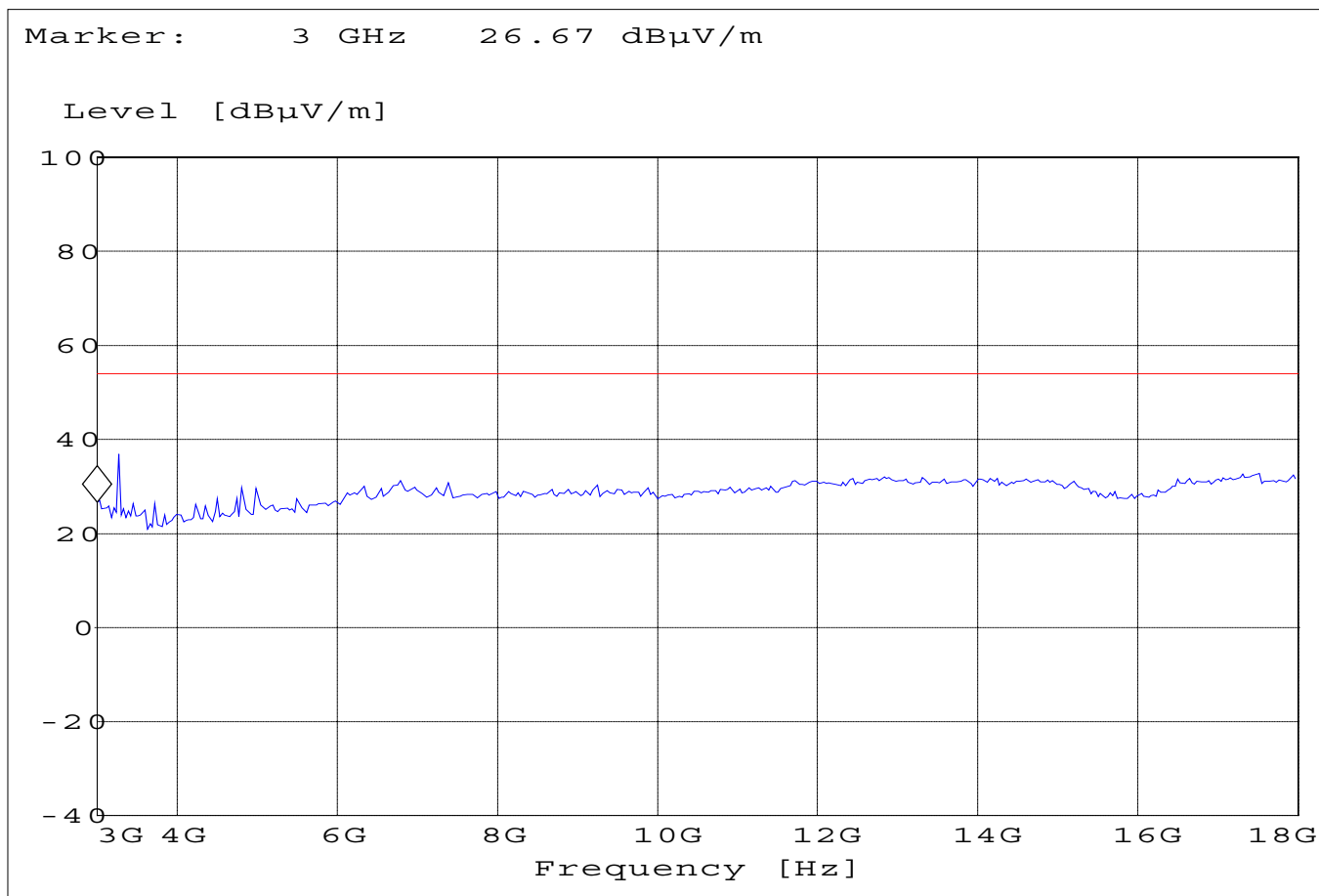
18.0 GHz

MaxPeak

Coupled

1 MHz

#326 horn (dBi)



RECEIVER SPURIOUS RADIATION

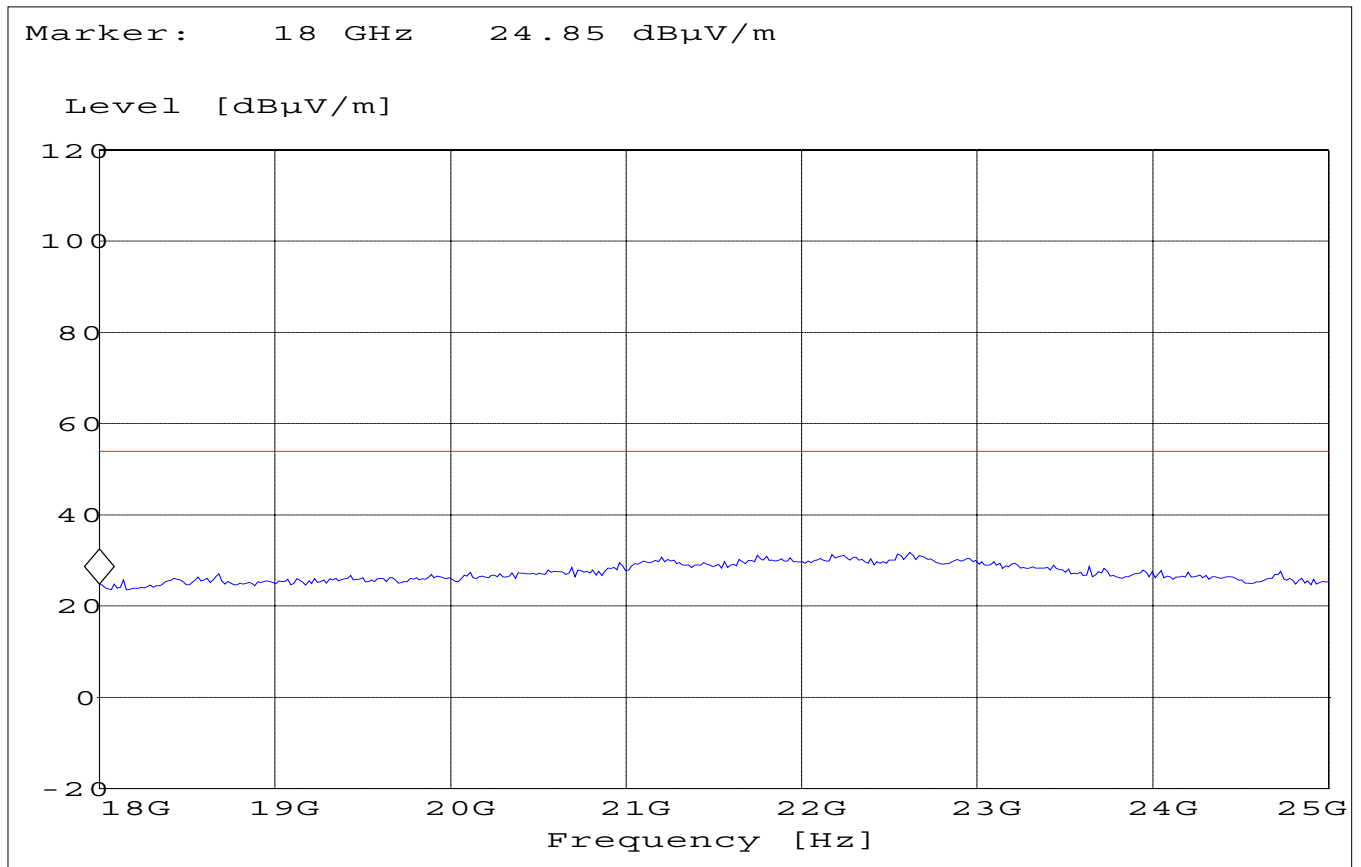
§ 15.209

18GHz – 25GHz

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

Short Description: Bluetooth Spurious 18-25GHz

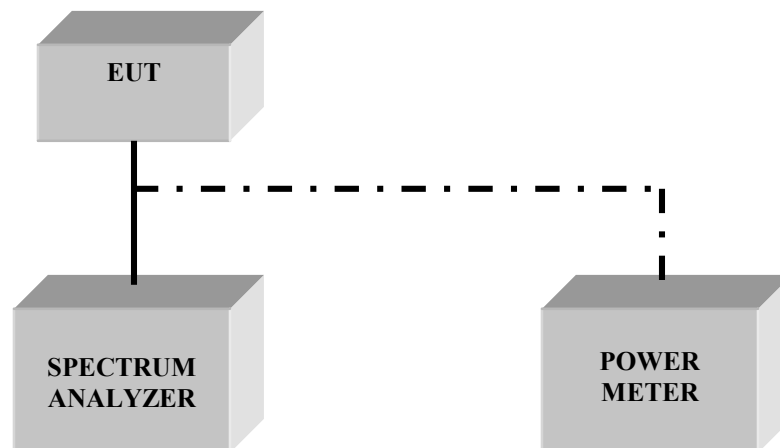
Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency	Time	Bandw.	VBW	
18.0 GHz	25 GHz	MaxPeak	Coupled	1 MHz	#326 horn (dBi)



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	Signal Generator	SMY02	Rohde & Schwarz	836878/011
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02
05	Power Amplifier	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	2-3GHz band reject filter	BRM50701	Microtronics	NA
12	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807

BLOCK DIAGRAMS
Conducted Testing



Radiated Testing

ANECHOIC CHAMBER

