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Federal Communications Commission
Anechoic chamber registration no.: 90462 (FCC)
Anechoic chamber registration no.: IC 3463A-1
TCB ID: DE 0001



Accredited by the
German Accreditation Council
DAR-Registration Number
DAT-P-176/94-D1



Independent ETSI
compliance test house



Accredited Bluetooth® Test Facility (BQTF)

Test report no.	:	2-4639-01-02/07
Applicant	:	Broadcast Microwave Services GmbH&Co. KG
Type	:	CT2200HDV
Test Standard	:	FCC Part 74 SPRS-302.0
FCC ID	:	VFB-CT2200HDV0000
Certification No. IC	:	7191A-CT2200HD

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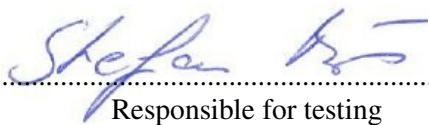
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1. Administrative data

1.1. Administrative data of the test facility

1.1.1 Identification of the testing laboratory

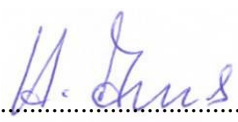
Company name:	Cetecom ICT Services GmbH
Address:	Untertürkheimerstr. 6-10 D-66117 Saarbruecken Germany
Laboratory accreditation:	DAR-Registration No. DAT-P-176/94-D1 Bluetooth Qualification Test Facility (BQTF)
Responsible for testing laboratory:	Harro Ames Phone: +49 681 598 0 Fax: +49 681 598 9075 email: info@ict.cetecom.de


.....
Responsible for testing
(Stefan Bös)

1.1.2 Organizational items

Reference No.:	2-4639-01-02/07
Order No.:	
Receipt of EUT:	2007-05-30
Date(s) of test:	2007-05-30 to 2007-05-31
Date of report:	2007-06-11
Number of report pages:	51

Version of template:	1.8


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Responsible for laboratory
(Harro Ames)

Note:

The test results of this test report relate exclusively to the item tested as specified in this report. The CETECOM ICT Services GmbH 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.

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During the test no hardware and software changes are allowed to be performed at the EUT.

1.1.3 Applicant's details

Applicant's name:	Broadcast Microwave Services GmbH&Co.KG
Address:	Schwalbacherstrasse 12 65321 Heidenrod Kemel Germany
Contact person:	Mr. Rainer Horn Phone: +49 (0) 6124 723915 Fax: +49 (0) 6124 723929 email: rhorn@tandbergtv.com

1.2 Administrative data of manufacturer / member

Manufacturer's name:	same as applicant
Address:	

1.3 Description of the Equipment under test (EUT)

1.3.1 EUT: Type, S/N etc.

Product name : CT2200HDV
Product ID : CT2200HDV
Description : Television broadcast transmitter
S/N serial number : 070 5035
HW hardware status : -
SW software status : -
Frequency Band [MHz] : 2000 – 2100
Type of Modulation : 7M75D7W
Antenna : SMA Antenna-connector with rod antenna
Power Supply : Lithium Ion Battery Pack 14.4V_{DC}
Temperature Range : -20°C to +55°C

Max. power radiated: +36.89 dBm

Max. power conducted: +35.56 dBm

FCC ID: VFB-CT2200HDV0000

IC: 7191A-CT2200HD

1.3.2 If RF component testing only, description of additional used HW/SW

	Product name	Product ID	Description	S/N serial number	HW hardware status	SW software status
1						
2						
3						
4						

1.3.3 Additional EUT information For IC Canada (appendix 2)

Company Number:	7191A
Model Name:	CT2200HDV
Manufacturer (complete Address):	Broadcast Microwave Services GmbH&Co.KG Schwalbacherstrasse 12 65321 Heidenrod Kemel Germany
Tested to Radio Standards Specification (RSS) No.:	SRSP-302-0
Open Area Test Site Industry Canada Number:	IC 3463A-1
Frequency Range (or fixed frequency) [MHz]:	2000 – 2100
RF: Power [W] (max):	Rad. EIRP: 4.887 W Conducted : 3.598 W
Antenna Type:	SMA Antenna-connector with rod antenna
Type of Modulation:	7M75D7W
Emission Designator (TRC-43):	7M75D7W

ATTESTATION: I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned departmental standard(s), and that the radio equipment identified in this application has been subject to all the applicable test conditions specified in the departmental standards and all of the requirements of the standards have been met.

Signature:



Date: 2007-06-11

Testengineer: Stefan Bös

1.3.4 EUT operating modes

EUT operating mode no. *)	Description of operating modes	Additional information
Op. 0	Normal mode	Normal temperature and power source conditions
Op. 1		low temperature, low power source conditions
Op. 2		low temperature, high power source conditions
Op. 3		high temperature, low power source conditions
Op. 4		high temperature, high power source conditions

*) EUT operating mode no. is used to simplify the testplan

1.3.5 Extreme conditions testing values

Description	Shortcut	Unit	Value
Nominal Temperature / humidity	T _{nom}	°C / %	+21 / 43
Low Temperature	T _{low}	°C	-20
High Temperature	T _{high}	°C	+55
Nominal Power Source	V _{nom}	V	14.4
Low Power Source	V _{low}	V	12.24
High Power Source	V _{high}	V	16.56

Type of powersource: V DC

Deviations from this values are reported in chapter 2

2. Teststandard & summary list of all performed test cases

TC identifier	Description	verdict	date	Remark
RF-Testing	FCC Part 74 - CANADA SRSP.302.0	PASS	2007-06-11	

Test Specification Clause	Test Case	Pass	Fail	Not applicable	Not performed
§ 74.636 / § 2.1046 SRSP-302.0 – 5.2	Maximum Peak Output Power (conducted)	Yes			
§ 74.636 SRSP-302.0 - 7	Maximum Peak Output Power (radiated)	Yes			
§ 74.637 / § 2.1049 SRSP-302.0 – 5.2	Occupied Bandwidth	Yes			
§ 74.637 SRSP-302.0 – 5.5	Emission mask	Yes			
§ 74.661 / § 2.1055	Frequency Stability vs. Voltage	Yes			
§ 74.661 / § 2.1055	Frequency Stability vs. Temperature	Yes			
§ 74.637 / § 2.1051 SRSP-302.0 – 5.5	Spurious Emissions - conducted	Yes			
§ 74.637 / § 2.1051 SRSP-302.0 – 5.5	Spurious Emissions - radiated	Yes			

3. RF measurement testing

3.1 Description of test set-up

3.1.1 Radiated measurements

Description:

Measuring of Spurious/Harmonic Emissions using Substitution Method

- (a) Set the EMI Receiver (for measuring E-Field) and Receiver #2 (for measuring EIRP) as follows:
Center Frequency : equal to the signal source
Resolution BW: 10 kHz for $f < 1$ GHz, 1 MHz for $f > 1$ GHz
Video BW: 300 kHz for $f < 1$ GHz, 3 MHz for $f > 1$ GHz
Detector Mode : positive
Average : off
- (b) Load an appropriate correction factors file in EMI Receiver for correcting the field strength reading level
Total Correction Factor recorded in the EMI Receiver = Cable Loss + Antenna Factor
 $E \text{ (dBuV/m)} = \text{Reading (dBuV)} + \text{Total Correction Factor (dB/m)}$
- (c) Select the frequency and E-field levels for ERP/EIRP measurements.
- (d) Substitute the EUT by a signal generator and one of the following transmitting antenna (substitution antenna):
DIPOLE antenna for frequency from 30-1000 MHz or .HORN antenna for frequency above 1 GHz }.
- (e) Mount the transmitting antenna at 1.5 meter high from the ground plane.
- (f) Use one of the following antenna as a receiving antenna: .DIPOLE antenna for frequency from 30-1000 MHz or .HORN antenna for frequency above 1 GHz }.
- (g) If the DIPOLE antenna is used, tune it's elements to the frequency as specified in the calibration manual.
- (h) Adjust both transmitting and receiving antenna in a VERTICAL polarization.
- (i) Tune the EMI Receivers to the test frequency.
- (j) Lower or raise the test antenna from 1 to 4 meters until the maximum signal level was detected.
- (k) The transmitter was rotated through 360° about a vertical axis until a higher maximum signal was received.
- (l) Lower or raise the test antenna from 1 to 4 meters until the maximum signal level was detected.
- (m) Adjust input signal to the substitution antenna until an equal or a known related level to that detected from the transmitter was obtained in the test receiver.
- (n) Record the power level read from the Average Power Meter and calculate the ERP/EIRP as follows:
 $P = P_1 - L_1 = (P_2 + L_2) - L_1 = P_3 + A + L_2 - L_1$
 $EIRP = P + G_1 = P_3 + L_2 - L_1 + A + G_1$
 $ERP = EIRP - 2.15 \text{ dB}$
Total Correction factor in EMI Receiver # 2 = $L_2 - L_1 + G_1$
Where: P: Actual RF Power fed into the substitution antenna port after corrected.
P1: Power output from the signal generator
P2: Power measured at attenuator A input
P3: Power reading on the Average Power Meter
EIRP: EIRP after correction
ERP: ERP after correction
- (o) Adjust both transmitting and receiving antenna in a HORIZONTAL polarization, then repeat step (k) to (o)
- (p) Repeat step (d) to (o) for different test frequency
- (q) Repeat steps (c) to (j) with the substitution antenna oriented in horizontal polarization.
- (r) Actual gain of the EUT's antenna is the difference of the measured EIRP and measured RF power at the RF port.
Correct the antenna gain if necessary.

[illegible]

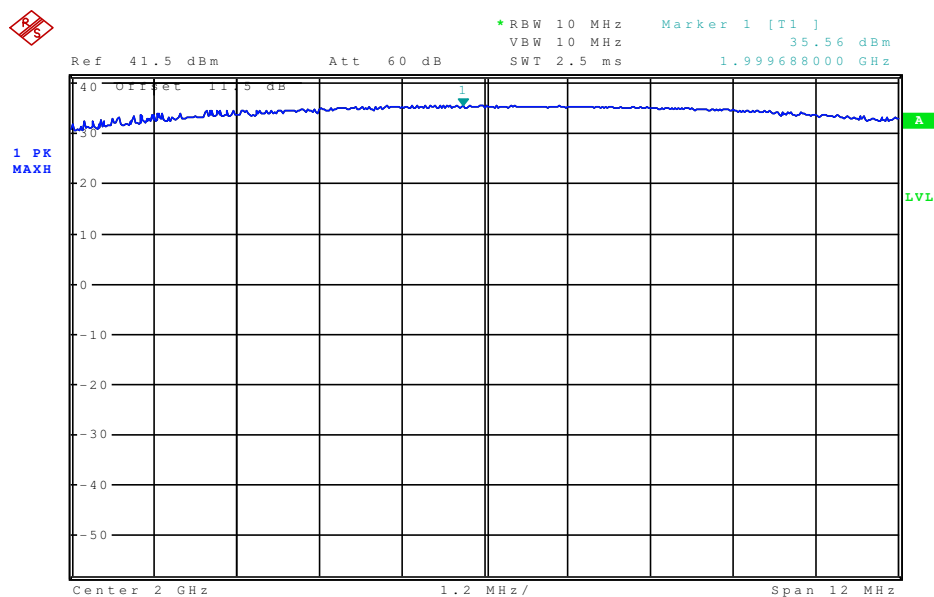
3.4 Maximum Peak Output Power (conducted)

§ 74.636 / 2.1046 / SRSP-302.0 – 5.2

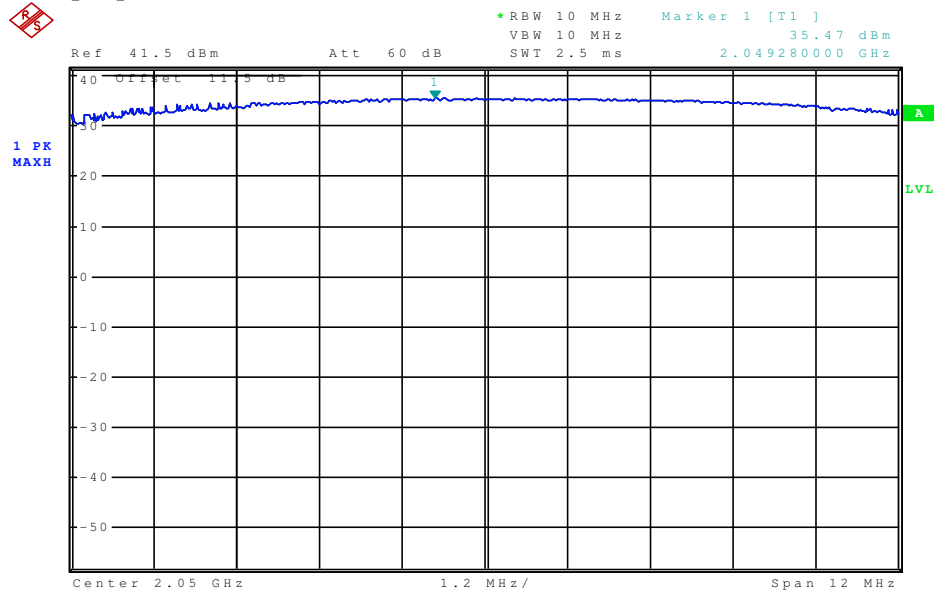
TEST CONDITIONS			MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)			2000	2050	2100
T _{nom} (23)°C	V _{nom} (6.4)V	Max	35.56	35.47	35.35
Measurement uncertainty			±3dB		

RBW / VBW : 10 MHz

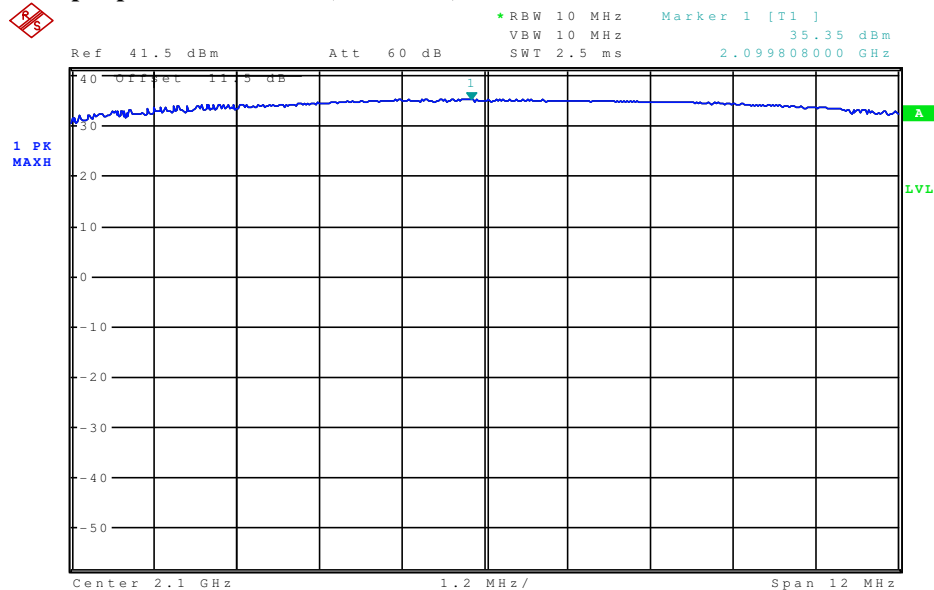
Plot 1: Peak output power 2000 MHz (conducted)



Plot 2: Peak output power 2050 MHz (conducted)



Plot 3: Peak output power 2100 MHz (conducted)



LIMITS

SUBCLAUSE § 74.636

For the Frequency Band 2,025 to 2,110 MHz:

Maximum allowable transmitter power for mobile: 12 W

Pass

LIMITS

SRSP-302.0 – 5.2

The transmitter power delivered to the antenna input shall not exceed the limits per RF channel shown below.

Bandwith (MHz)	Power Limit Watts (dBW)
10 / 7	10.0 (+10)
5	5.0 (+7)
2.5	2.0 (+3)
1.25 / 0.05	1.0 (0)

Pass

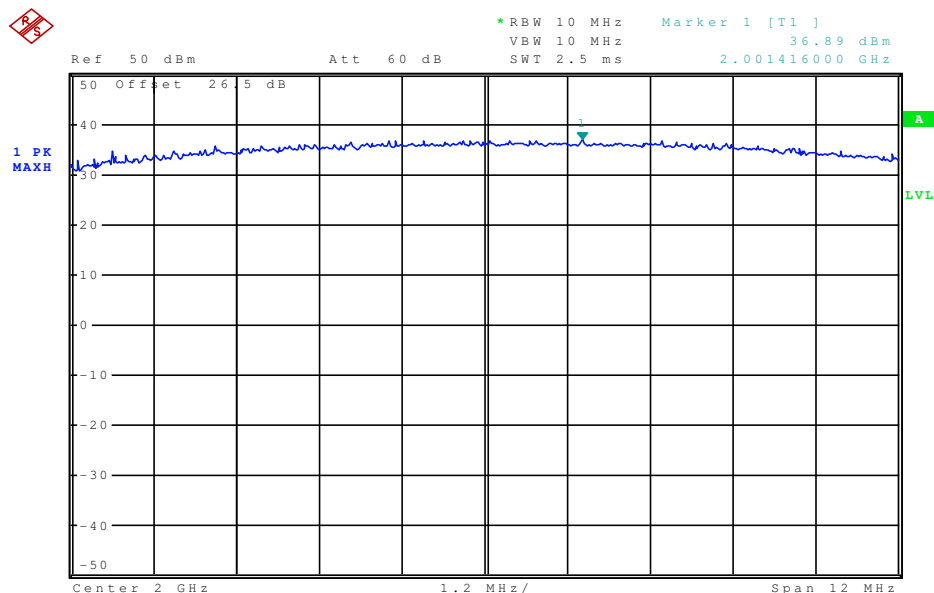
3.5 Maximum Peak Output Power (radiated)

§ 74.636 / 2.1046 / SRSP-302.0 – 7

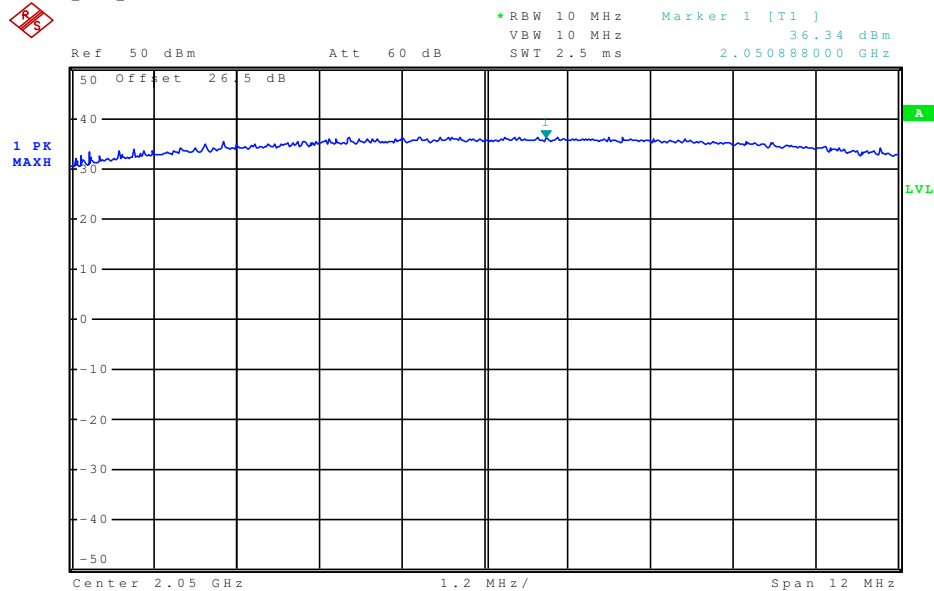
TEST CONDITIONS			MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)			2000	2050	2100
T _{nom} (23)°C	V _{nom} (6.4)V	Max	36.89	36.34	36.34
Measurement uncertainty			±3dB		

RBW / VBW : 10 MHz

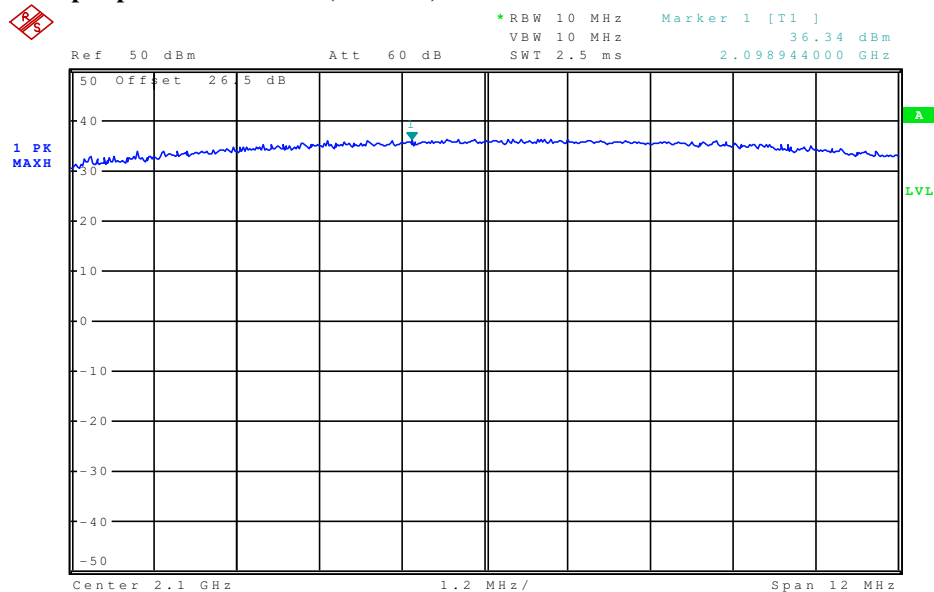
Plot 1: Peak output power 2000 MHz (radiated)



Plot 2: Peak output power 2050 MHz (radiated)



Plot 3: Peak output power 2100 MHz (radiated)



LIMITS

SUBCLAUSE § 74.636

For the Frequency Band 2,025 to 2,110 MHz:
Maximum allowable EIRP for mobile: 35 dBW
Maximum allowable EIRP for fixed: 45 dBW

Pass

LIMITS

SRSP-302.0 – 7

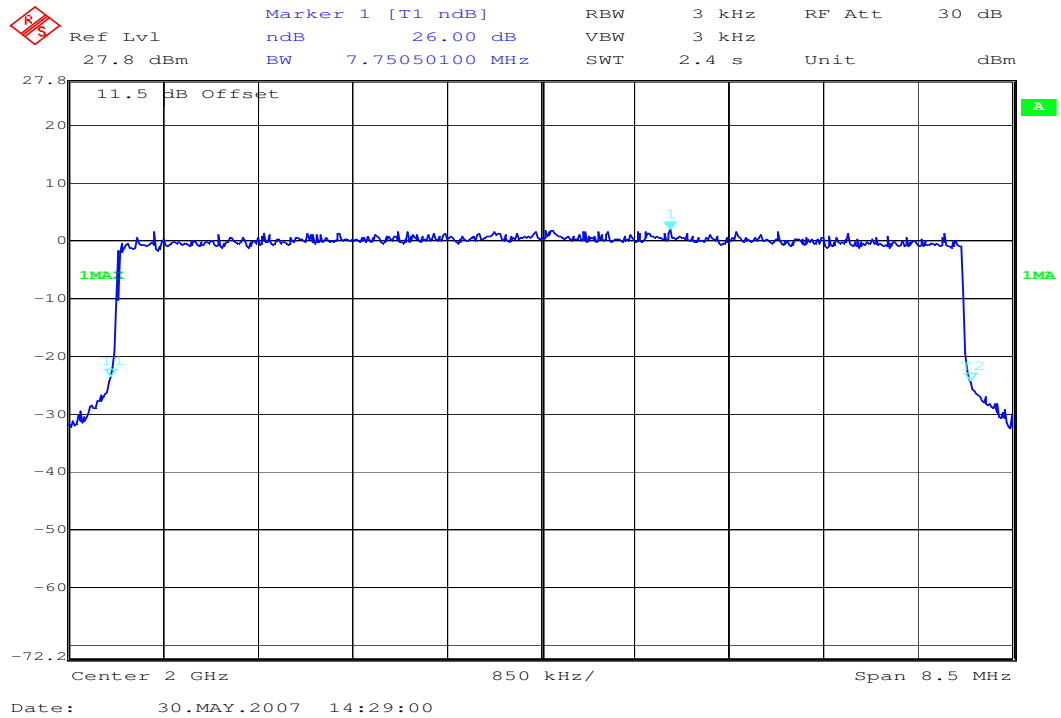
The maximum EIRP from the antenna must not in any case exceed + 55 dBW per RF channel.

Pass

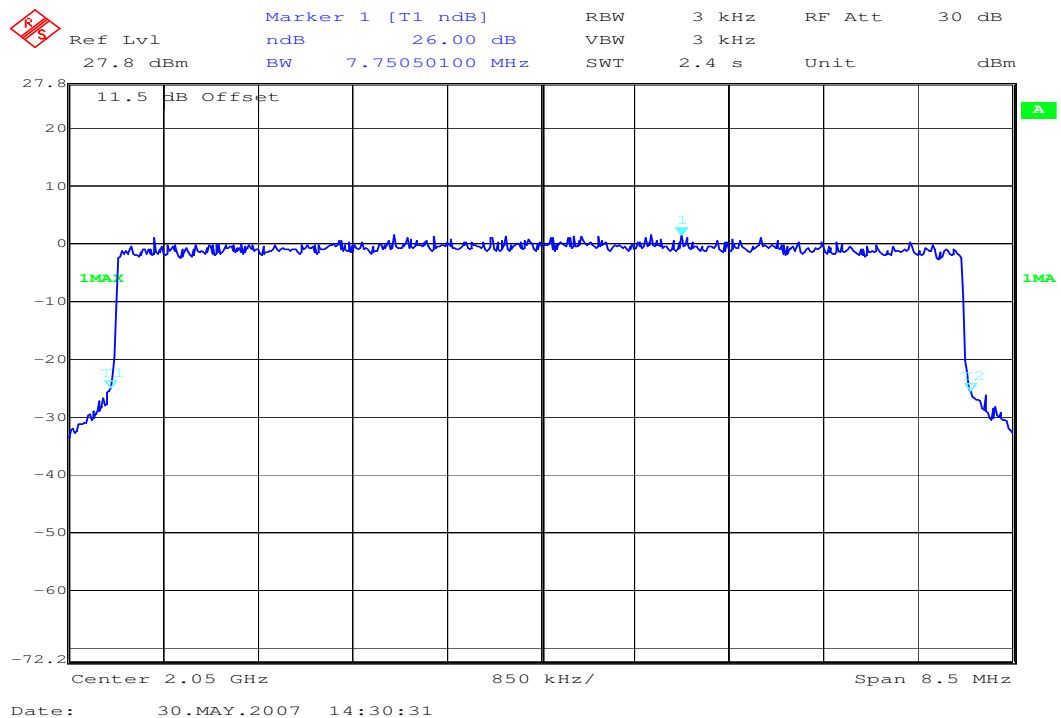
3.6 Occupied Bandwidth

§ 74.637 (g) / 2.1049 / SRSP-302.0 – 5.2

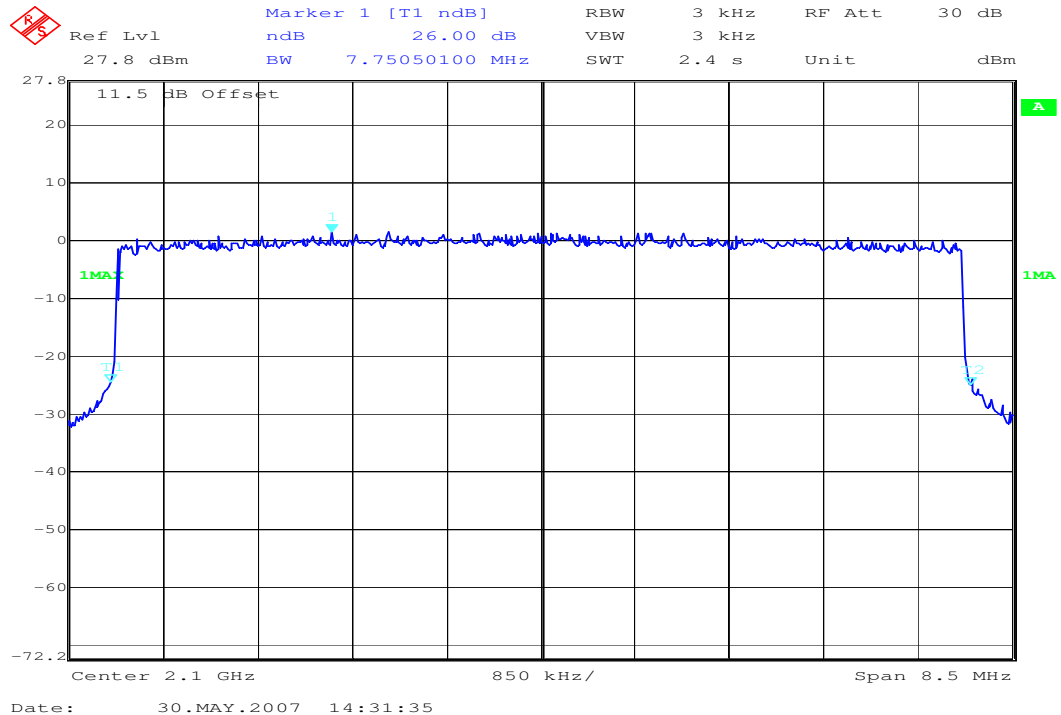
Plot 1: 2000 MHz (max. power), modulated with test modulation



Plot 2: 2050 MHz (max. power), modulated with test modulation



Plot 3: 2100 MHz (max. power), modulated with test modulation



TEST CONDITIONS			OCCUPIED BANDWIDTH (MHz)		
Frequency (MHz)			2000	2050	2100
T _{nom} (23)°C	V _{nom} (6.4)V	Max	7.75	7.75	7.75
Measurement uncertainty			± 10 kHz		

LIMITS

SUBCLAUSE § 74.637 (g)

For the Frequency Band 1.990 to 2.110 MHz:
Maximum authorized bandwidth: 18 MHz

Pass

LIMITS

SRSP-302.0 – 5.2

Maximum authorized bandwidth: 10 MHz

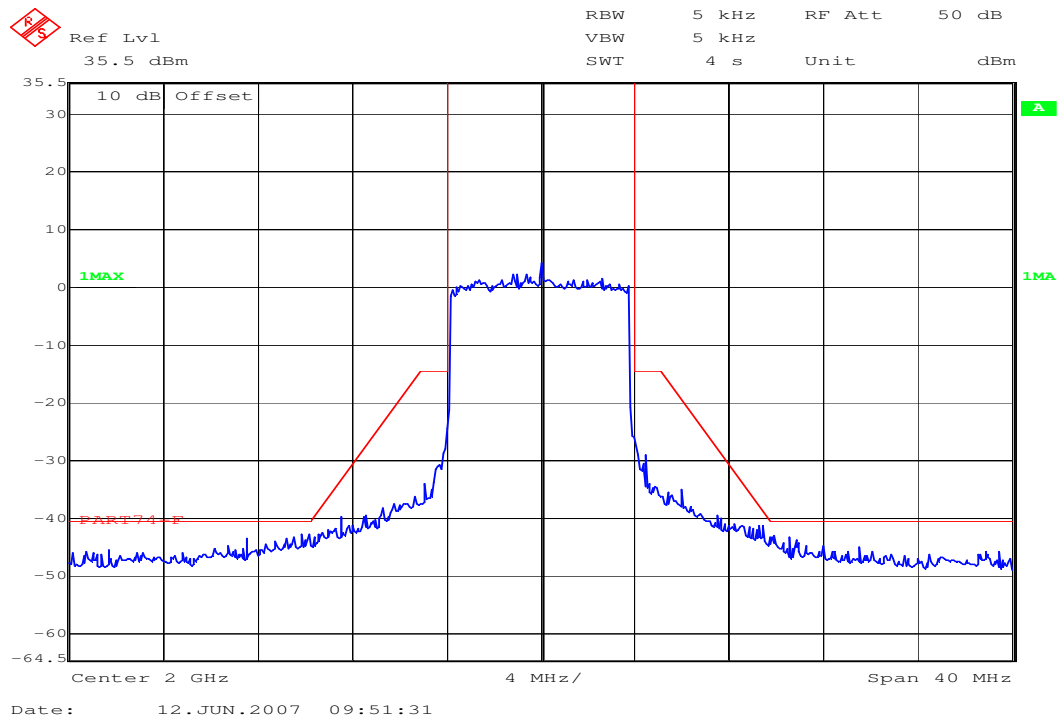
Pass

3.7 Emission mask

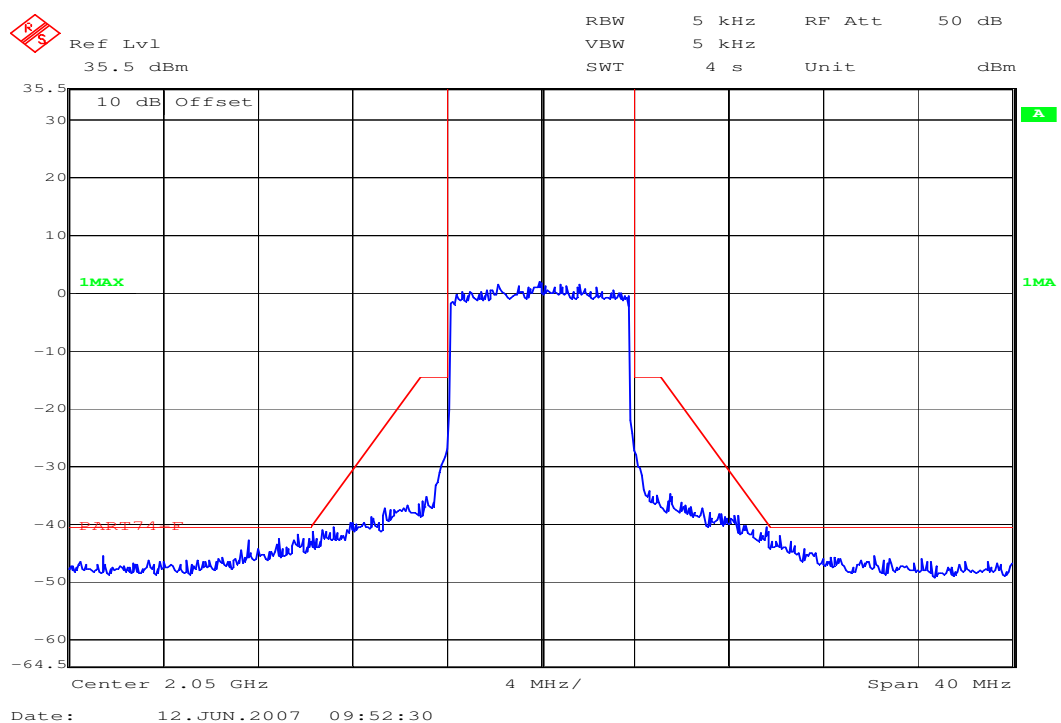
§ 74.637 / SRSP-302.0 – 5.5

Measurement was done using the emission mask for using transmissions employing digital modulation techniques:

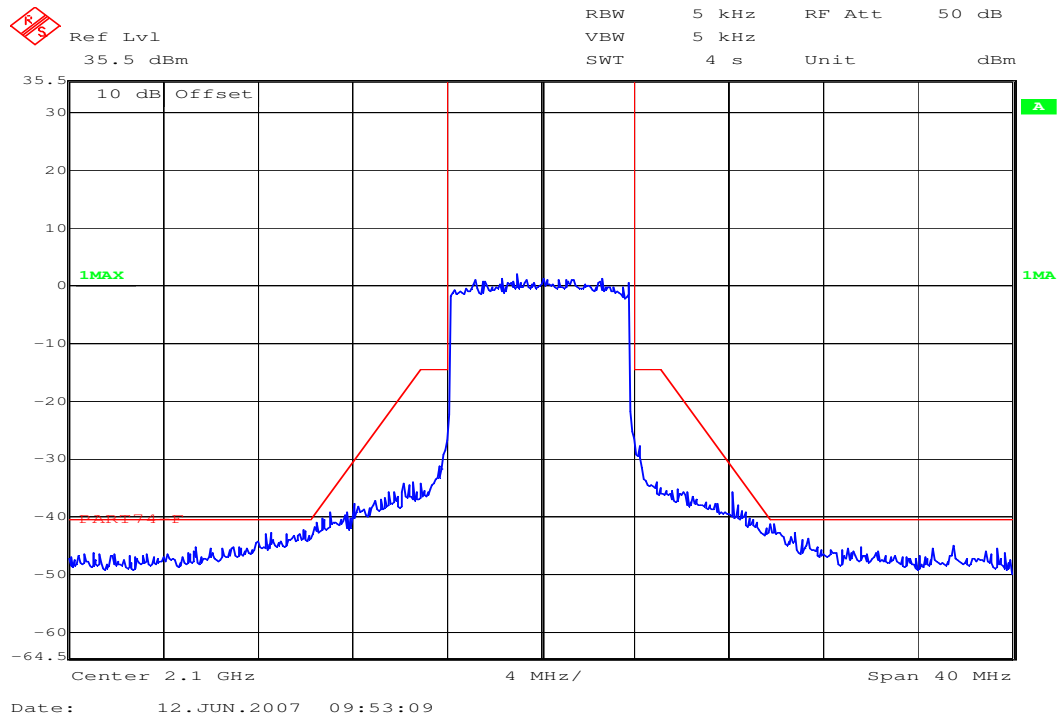
Plot 1: 2000 MHz (max. power), modulated with test modulation



Plot 2: 2050 MHz (max. power), modulated with test modulation



Plot 3: 2100 MHz (max. power), modulated with test modulation



LIMITS

SUBCLAUSE § 74.637 / SRSP-302.0 – 5.5

The mean power of emissions shall be attenuated below the mean transmitter power (P_{MEAN}) in accordance with the following schedule:

For operating frequencies below 15 GHz, in any 4 kHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 250 percent of the authorized bandwidth: As specified by the following equation but in no event less than 50 decibels:

$$A = 35 + 0.8 (G - 50) + 10 \log_{10} B$$

(Attenuation greater than 80 decibels is not required.)

Pass

3.8 Frequency Stability vs. Voltage**§ 74.661 / 2.1055**

nom. Voltage	Voltage [V]	Frequency error [Hz]	Frequency [MHz]	Error in ppm
14.4 V	12.3	-936	2000	0.47
14.4 V	12.6	-936	2000	0.47
14.4 V	12.9	-948	2000	0.47
14.4 V	13.2	-960	2000	0.48
14.4 V	13.5	-972	2000	0.49
14.4 V	13.8	-987	2000	0.49
14.4 V	14.1	-999	2000	0.50
14.4 V	14.4	-1017	2000	0.51
14.4 V	14.7	-1032	2000	0.52
14.4 V	15.0	-1053	2000	0.53
14.4 V	15.3	-1062	2000	0.53
14.4 V	15.6	-1070	2000	0.54
14.4 V	15.9	-1078	2000	0.54
14.4 V	16.2	-1086	2000	0.54
14.4 V	16.5	-1095	2000	0.55

nom. Voltage	Voltage [V]	Frequency error [Hz]	Frequency [MHz]	Error in ppm
14.4 V	12.3	-938	2050	0.46
14.4 V	12.6	-939	2050	0.46
14.4 V	12.9	-953	2050	0.46
14.4 V	13.2	-964	2050	0.47
14.4 V	13.5	-977	2050	0.48
14.4 V	13.8	-989	2050	0.48
14.4 V	14.1	-1003	2050	0.49
14.4 V	14.4	-1019	2050	0.50
14.4 V	14.7	-1035	2050	0.50
14.4 V	15.0	-1057	2050	0.51
14.4 V	15.3	-1065	2050	0.52
14.4 V	15.6	-1073	2050	0.52
14.4 V	15.9	-1082	2050	0.53
14.4 V	16.2	-1089	2050	0.53
14.4 V	16.5	-1099	2050	0.54

nom. Voltage	Voltage [V]	Frequency error [Hz]	Frequency [MHz]	Error in ppm
14.4 V	12.3	-944	2100	0.45
14.4 V	12.6	-945	2100	0.45
14.4 V	12.9	-955	2100	0.45
14.4 V	13.2	-967	2100	0.46
14.4 V	13.5	-978	2100	0.47
14.4 V	13.8	-994	2100	0.47
14.4 V	14.1	-1004	2100	0.48
14.4 V		-1022	2100	0.49
14.4 V	14.7	-1037	2100	0.49
14.4 V	15.0	-1058	2100	0.50
14.4 V	15.3	-1067	2100	0.51
14.4 V	15.6	-1075	2100	0.51
14.4 V	15.9	-1083	2100	0.52
14.4 V	16.2	-1093	2100	0.52
14.4 V	16.5	-1102	2100	0.52

LIMITS

SUBCLAUSE § 74.661

For the Frequency Band 2.025 to 2.110 MHz: Frequency tolerance: 0.005 % (50ppm)	Pass
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3.9 Frequency Stability vs. Temperature

§ 74.661 / 2.1055

Temperature [°C]	Frequency error [Hz]	Frequency [MHz]	Error in ppm
-20	-784	2000	-0.40
-10	-715	2000	-0.36
0	-633	2000	-0.32
+10	-551	2000	-0.28
+20	-466	2000	-0.23
+30	-384	2000	-0.20
+40	-322	2000	-0.16
+50	-247	2000	-0.12
+55	-154	2000	-0.08

Temperature [°C]	Frequency error [Hz]	Frequency [MHz]	Error in ppm
-20	-792	2050	-0.39
-10	-724	2050	-0.35
0	-644	2050	-0.31
+10	-562	2050	-0.27
+20	-477	2050	-0.23
+30	-395	2050	-0.19
+40	-333	2050	-0.16
+50	-256	2050	-0.12
+55	-164	2050	-0.08

Temperature [°C]	Frequency error [Hz]	Frequency [MHz]	Error in ppm
-20	-805	2100	-0.83
-10	-738	2100	-0.35
0	-658	2100	-0.31
+10	-575	2100	-0.27
+20	-486	2100	-0.23
+30	-405	2100	-0.19
+40	-352	2100	-0.17
+50	-274	2100	-0.13
+55	-187	2100	-0.09

LIMITS

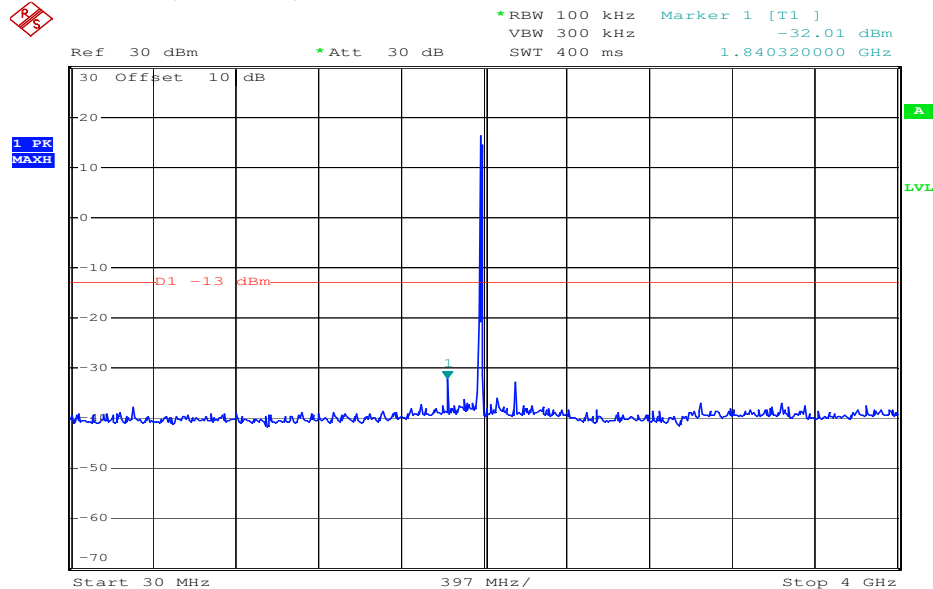
SUBCLAUSE § 74.661

For the Frequency Band 2.025 to 2.110 MHz: Frequency tolerance: 0.005 % (50ppm)	Pass
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3.10 Spurious Emissions - conducted

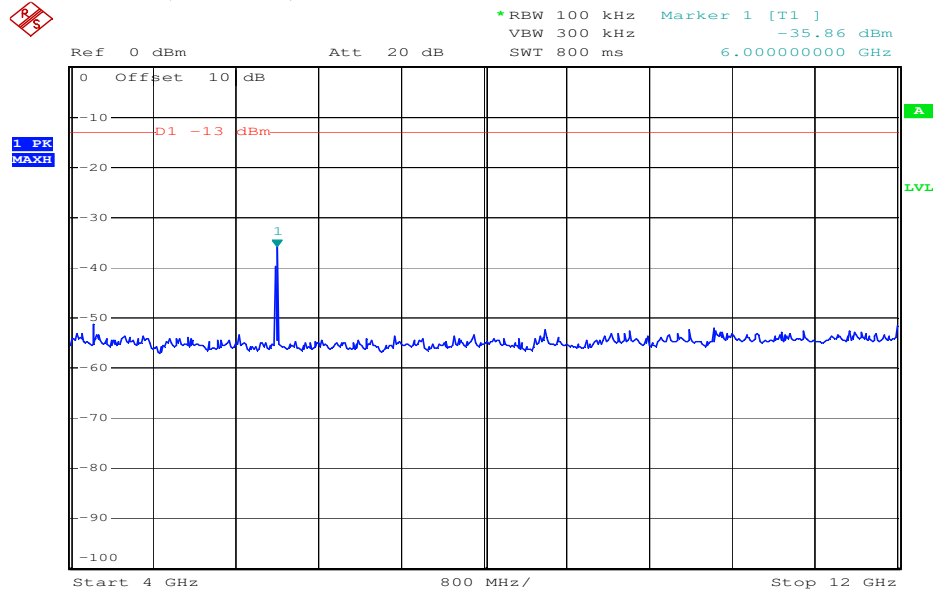
§ 74.637 / 2.1051/ SRSP-302.0 – 5.5

Plot 1: 30 MHz – 4 GHz (2000 MHz)



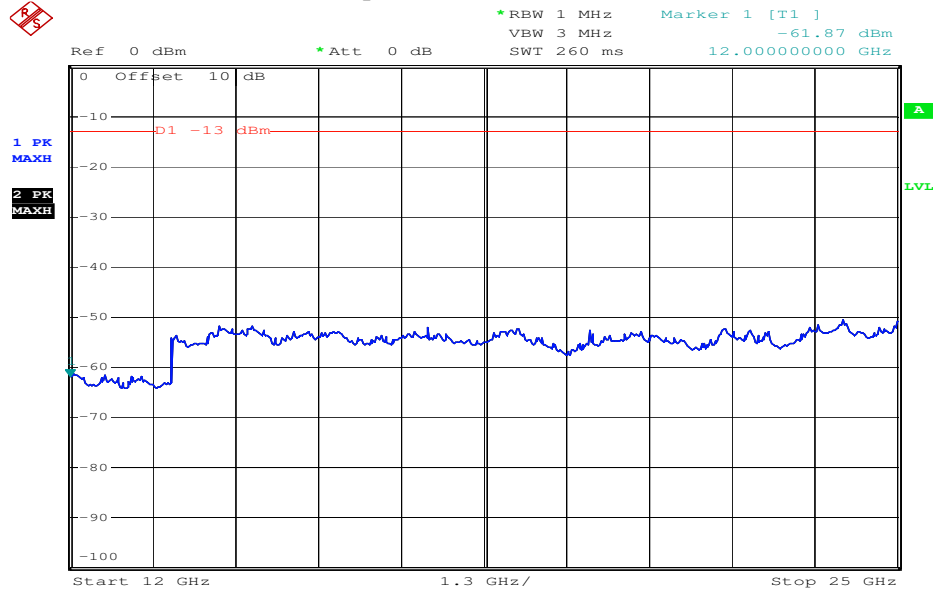
Date: 11.JUN.2007 15:06:18

Plot 2: 4 GHz – 12 GHz (2000 MHz)



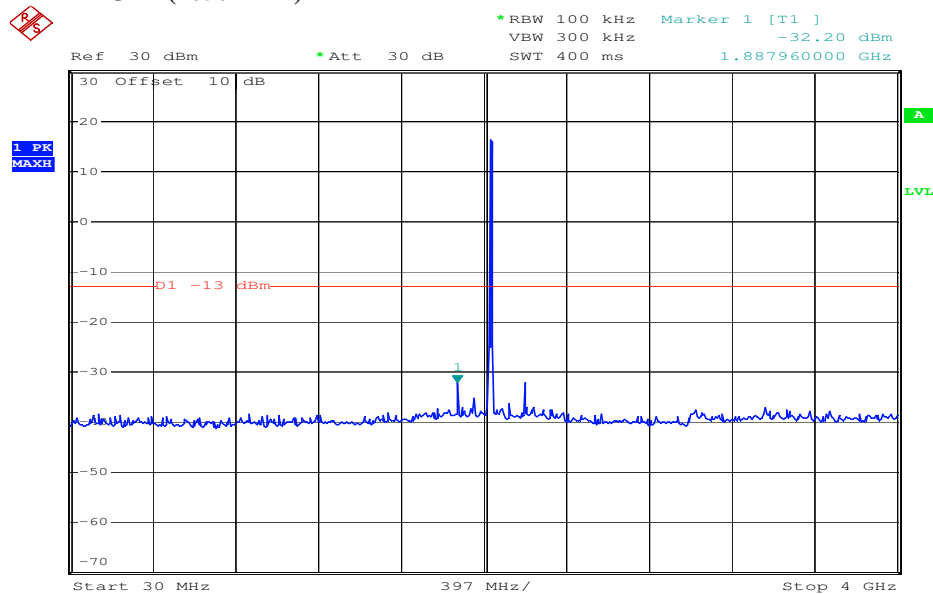
Date: 11.JUN.2007 15:01:46

Plot 3: 12 GHz – 25 GHz (valid for all frequencies)



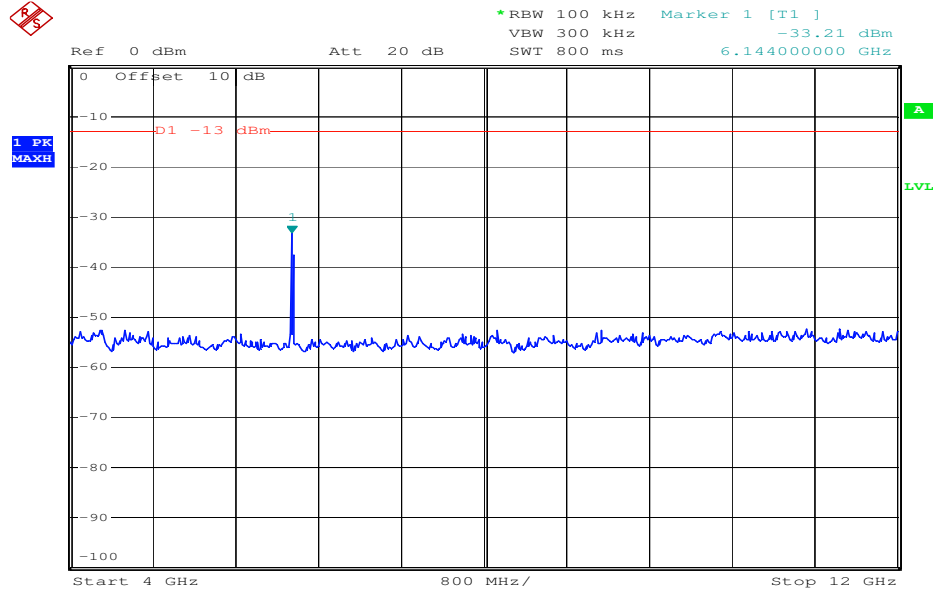
Date: 11.JUN.2007 14:36:37

Plot 4: 30 MHz – 4 GHz (2050 MHz)



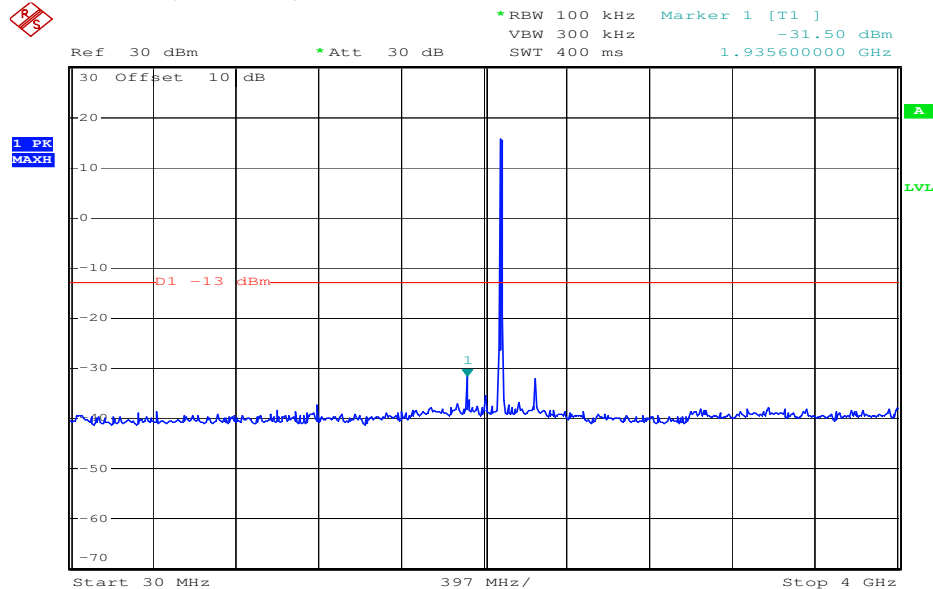
Date: 11.JUN.2007 15:04:49

Plot 5: 4 GHz – 12 GHz (2050 MHz)



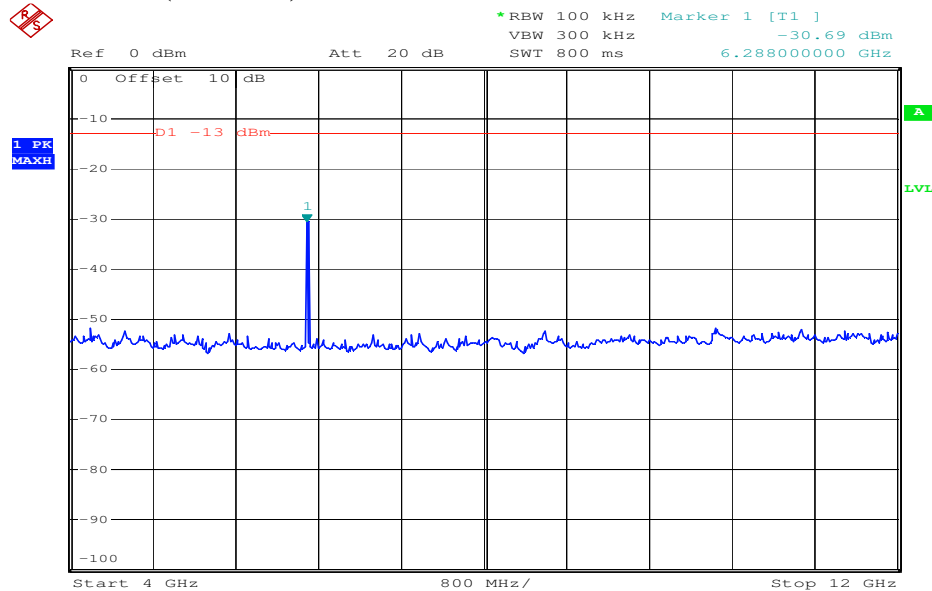
Date: 11.JUN.2007 15:01:10

Plot 6: 30 MHz – 4 GHz (2100 MHz)



Date: 11.JUN.2007 15:05:36

Plot 7: 4 GHz – 12 GHz (2100 MHz) Peak



Date: 11.JUN.2007 15:00:22

Result & Limits:

SPURIOUS EMISSIONS LEVEL (dBm)								
2000 MHz			2050 MHz			2100 MHz		
F [MHz]	Detector	Level [dBm]	F [MHz]	Detector	Level [dBm]	F [MHz]	Detector	Level [dBm]
1840.32	Pk	-32.01	1887.96	Pk	-32.20	1935.60	Pk	-31.50
6000.00	Pk	-35.86	6144.00	Pk	-33.21	6288.00	Pk	-30.69
Measurement uncertainty			±3 dB					

RBW : 100 kHz VBW: 300 kHz

LIMITS

SUBCLAUSE § 74.637 / SRSP-302.0 – 5.5

The mean power of emissions shall be attenuated below the mean transmitter power (P_{MEAN}) in accordance with the following schedule:

In any 4 kHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth:

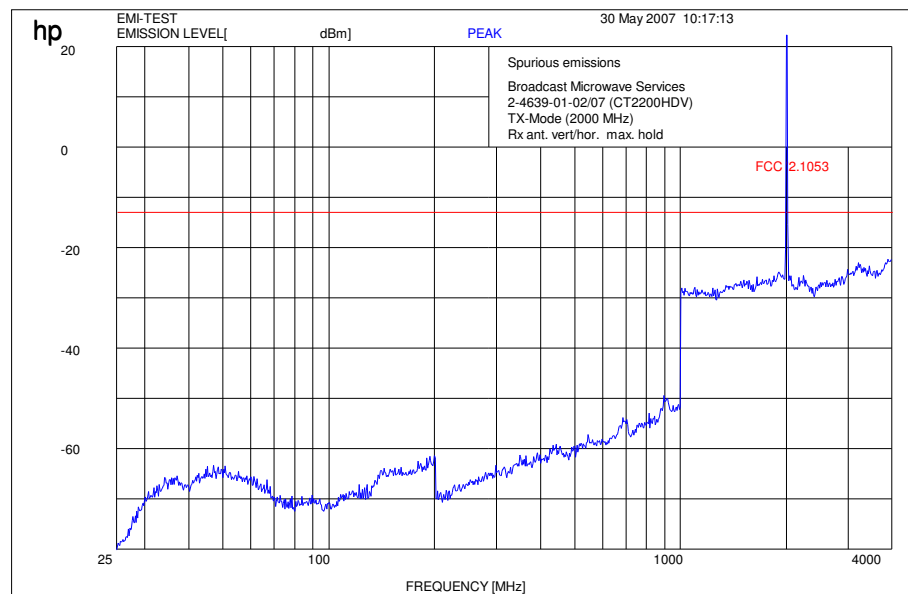
At least $43 + 10 \log_{10} (P_{\text{MEAN}}$ in watts) decibels, or 80 decibels, whichever is the lesser attenuation.

Pass

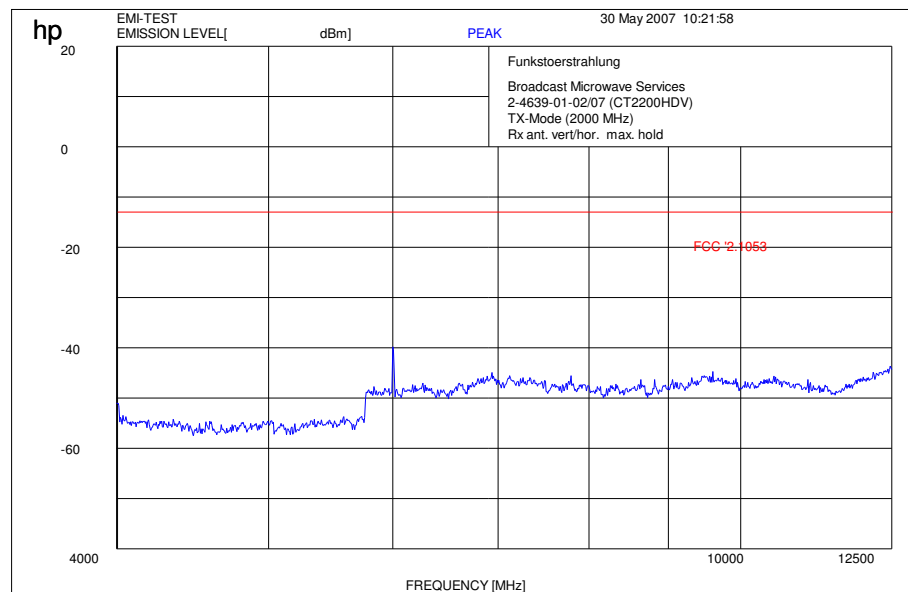
3.11 Spurious Emissions - radiated

§ 74.637 / 2.1051/ SRSP-302.0 – 5.5

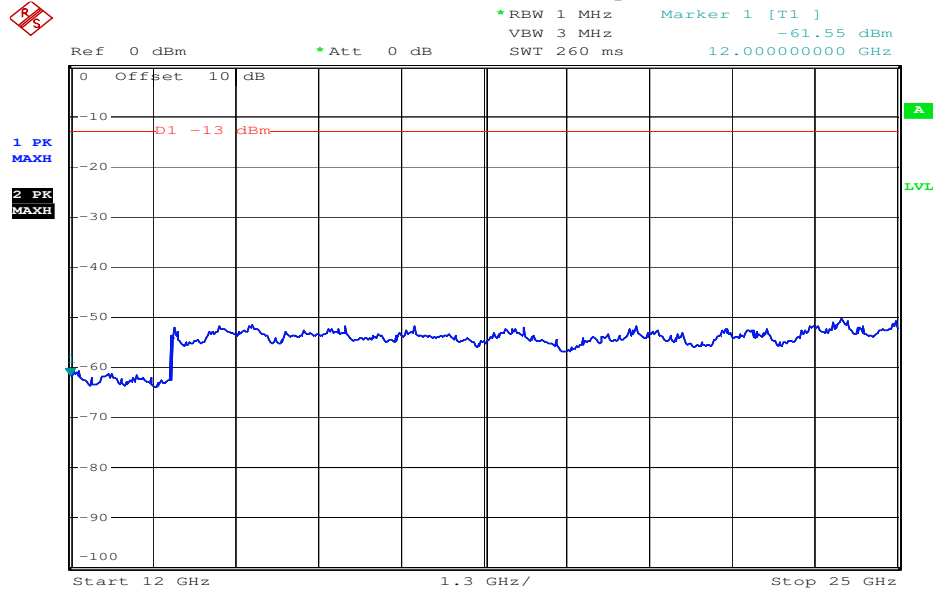
Plot 1: TX-Mode 2000 MHz (30 MHz – 4 GHz)



Plot 2: TX-Mode 2000 MHz (4 GHz – 12 GHz)

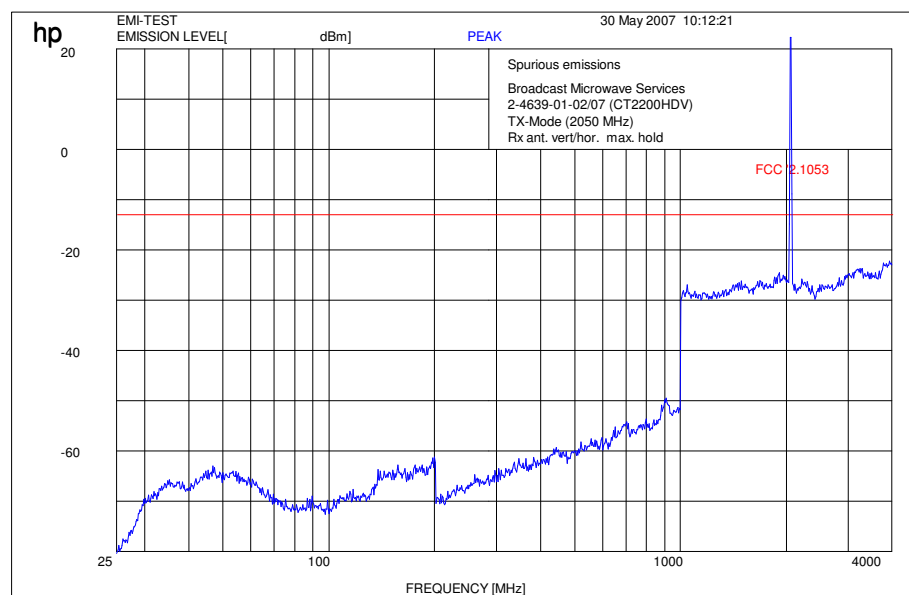


Plot 3: TX-Mode 2000 MHz (12 GHz – 25 GHz) valid for all frequencies

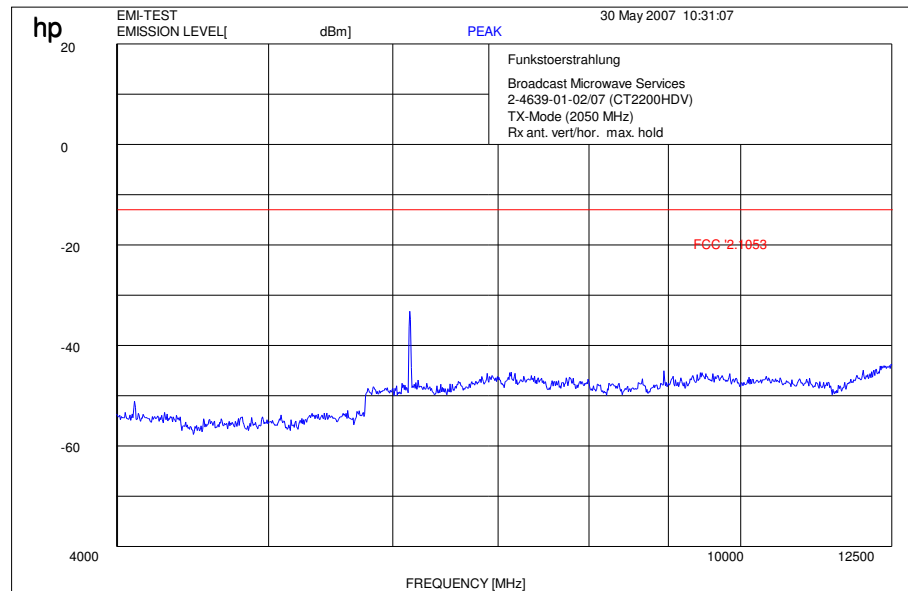


Date: 11.JUN.2007 14:32:37

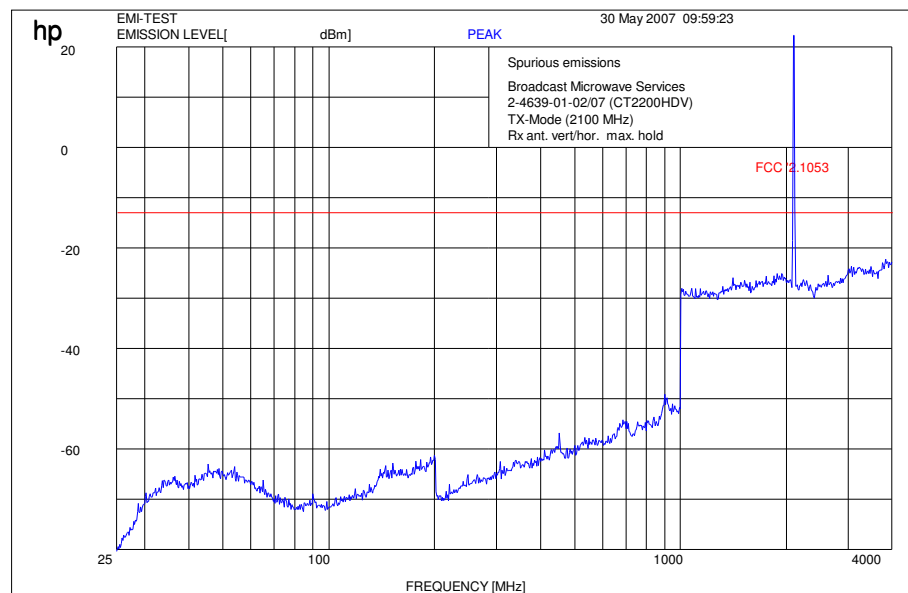
Plot 4: TX-Mode 2050 MHz (30 MHz – 4 GHz)



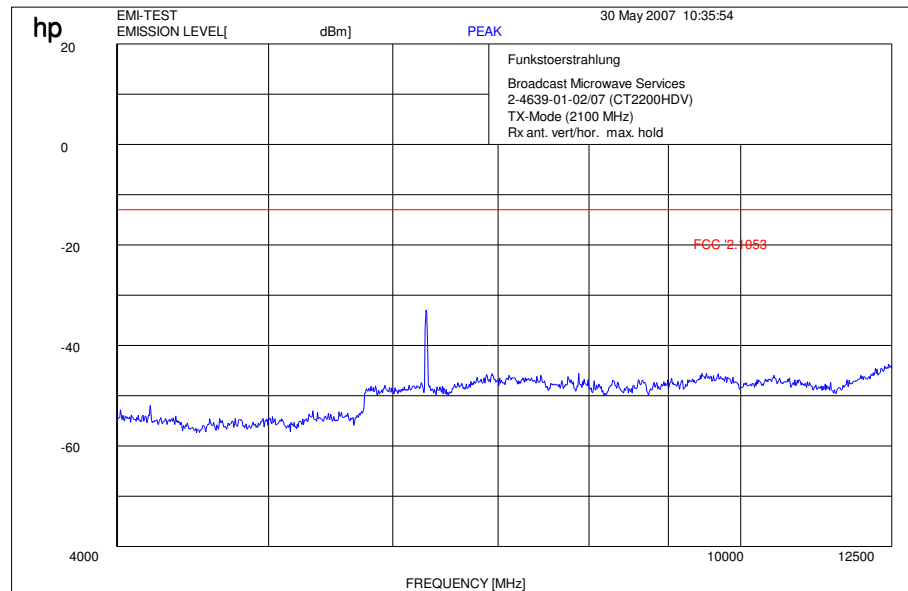
Plot 5: TX-Mode 2050 MHz (4 GHz – 12 GHz)



Plot 6: TX-Mode 2100 MHz (30 MHz – 4 GHz)



Plot 7: TX-Mode 2100 MHz (4 GHz – 12 GHz)



Results:

SPURIOUS EMISSIONS LEVEL (dBm)								
2000 MHz			2050 MHz			2100 MHz		
F [MHz]	Detector	Level [dBm]	F [MHz]	Detector	Level [dBm]	F [MHz]	Detector	Level [dBm]
No critical peaks found			No critical peaks found			No critical peaks found		
Measurement uncertainty			±3 dB					

f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

LIMITS

SUBCLAUSE § 74.637 / SRSP-302.0 – 5.5

<p>The mean power of emissions shall be attenuated below the mean transmitter power (P_{MEAN}) in accordance with the following schedule:</p> <p>In any 4 kHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth:</p> <p>At least $43 + 10 \log_{10} (P_{MEAN} \text{ in watts})$ decibels, or 80 decibels, whichever is the lesser attenuation.</p>	Pass
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Results: RX/Idle-Mode

Equipment does not have a RX/Idle-mode.

SPURIOUS EMISSIONS LEVEL (dBm)								
F [MHz]	Detector	Level [dBm]	F [MHz]	Detector	Level [dBm]	F [MHz]	Detector	Level [dBm]
Not applicable								
Measurement uncertainty			±3 dB					

f < 1 GHz : RBW/VBW: 100 kHz

f ≥ 1GHz : RBW/VBW: 1 MHz

LIMITS

SUBCLAUSE § 74.637 / SRSP-302.0 – 5.5

The mean power of emissions shall be attenuated below the mean transmitter power (P_{MEAN}) in accordance with the following schedule:

In any 4 kHz reference bandwidth (B_{REF}), the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth:

At least $43 + 10 \log_{10} (P_{\text{MEAN}}$ in watts) decibels, or 80 decibels, whichever is the lesser attenuation.

Pass

3.12 Used Testequipment

Anechoic chamber C:

Device	Manufacturer	Type	S/N Number	Inv. No. Cetecom
Spektrum Analyser	HP	8566B	2747A05306	300001000
Spektrum Analyser Display	HP	85662A	2816A16541	300002297
Quasi-Peak-Adapter	HP	85650A	2811A01131	300000999
Power Supply	HP	6032A	2818A03450	300001040
Power Attenuator	Byrd	8325	1530	300001595
Biconical Antenna	EMCO	3104	3758	300001602
Log. Period. Antenna	EMCO	3146	2130	300001603
Double Ridged Antenna	EMCO	HP 3115P	3088	300001032
Active Loop Antenna	EMCO	6502	2210	300001015
Antenna VDE/FCC		HP11965B		300002298
SRM-Drive	HP	9144A	2823e46556	300001044
Software	HP	EMI		300000983
Busisolator	Kontron			300001056
Absorberhalle	MWB		87400/02	300000996
Salzsäule	Kontron			300001055
Antenna	R&S	HMO20	832211/003	300002243
Indukt. Tast Antenna	R&S	HFH 2 Z4	881468/026	300001464
System-Rack	HP I.V.	85900	*	300000222
Spectrum Analyzer	HP	8566B	2747A05275	300000219
Quasi-Peak-Adapter	HP	85650A	2811A01135	300000216
RF-Preselector	HP	85685A	2837A00779	300000218
Rahmen Antenne	R&S	HFH2-Z2	891847-35	300001169
Leitungsteiler	HP	11850C		300000997
Breitband-Hornantenne EMI	HP	35155P		300002300
PC	HP	Vectra VL		300001688
VHF Meßantenne	Schwarzbeck	VHA 9103		300001778
Spectrum Analyzer Display	HP	85662A	2816A16497	300001690
VHF Meßantenna	Schwarzbeck	VHA 9103		300001780
Biconical Antenna	EMCO	3104 C	9909-4868	300002590

SRD Laboratory: (Bluetooth System)

No	Equipment/Type	Manufact.	Serial Nr.	Inv. No. Cetecom
1	System Controller PSM 12	R&S	835259/007	3000002681
2	Memory Extension PSM-K10	R&S	To 1	3000002681
3	Operating Software PSM-B2	R&S	To 1	3000002681
4	19" Monitor		22759020-ED	3000002681
5	Mouse		LZE 0095/6639	3000002681
6	Keyboard		G00013834L461	3000002681
7	Spectrum Analyser FSIQ 26	R&S	835540/018	3000002681
8	Tracking Generator FSIQ-B10	R&S	835107/015	3000002681
10	RF-Generator SMIQ03 (B1 Signal)	R&S	835541/056	3000002681
11	Modulation Coder SMIQ-B20	R&S	To 10	3000002681
12	Data Generator SMIQ-B11	R&S	To 10	3000002681
13	RF Rear Connection SMIQ-B19	R&S	To 10	3000002681
14	Fast CPU SM-B50	R&S	To 10	3000002681
15	FM Modulator SM-B5	R&S	835676/033	3000002681
16	RF-Generator SMIQ03 (B2 Signal)	R&S	835541/055	3000002681

17	Modulation Coder SMIQ-B20	R&S	To 16	3000002681
18	Data Generator SMIQ-B11	R&S	To 16	3000002681
19	RF Rear Connection SMIQ-B19	R&S	To 16	3000002681
20	Fast CPU SM-B50	R&S	To 16	3000002681
21	FM Modulator SM-B5	R&S	836061/022	3000002681
22	RF-Generator SMP03 (B3 Signal)	R&S	835133/011	3000002681
23	Attenuator SMP-B15	R&S	835136/014	3000002681
24	RF Rear Connection SMP-B19	R&S	834745/007	3000002681
25	Power Meter NRVD	R&S	835430/044	3000002681
26	Power Sensor NRVD-Z1	R&S	833894/012	3000002681
27	Power Sensor NRVD-Z1	R&S	833894/011	3000002681
28	Rubidium Standard RUB	R&S	6197	3000002681
29	Switching and Signal Conditioning Unit SSCU	R&S	338864/003	3000002681
30	Laser Printer HP Deskjet 2100	HP	N/A	3000002681
31	19'' Rack	R&S	11138363000004	3000002681
32	RF-cable set	R&S	N/A	3000002681
33	IEEE-cables	R&S	N/A	3000002681
34	Sampling System FSIQ-B70	R&S	835355/009	3000002681
35	RSP programmable attenuator	R&S	834500/010	3000002681
36	Signalling Unit	R&S	838312/011	3000002681
37	NGPE programmable Power Supply for EUT	R&S	192.033.41	3000002681

SRD Laboratory:

Device	Manufacturer	Type	S/N Number	Inv. No. Cetecom
Climatic box	Heraeus Vötsch	VT 4002	--	300003019
Signaling Unit	R&S	CMU200	832221/0055	300002862
Power Splitter	Inmet Corp.	6005-3	none	300002841
SMA Cables	Insulated Wire	SPS-1151-985-SPS	different	different