

Test Site:
FCC Test Site No.: 96997
IC OATS No.: IC3475A-1



ECL-EMC Test Report No.: 11-293

Equipment under test: **ION-M17P/26 EU (2600MHz Path)**
FCC ID: **BCR-IONM17P26EU**
IC ID: **2237D-IONM17P26EU**
Type of test: **FCC 47 CFR Part 27 Subpart C: 2011**
Miscellaneous Wireless Communication Services
RSS-Gen:2007, RSS-131:2005

Measurement Procedures: 47 CFR Parts 2:2011 (*Frequency Allocations and Radio Treaty Matters; General Rules and Regulations*),
Part 27:2011 (*Miscellaneous Wireless Communication Services*),
ANSI/TIA-603-C (2004), *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*
IC-GEN:2007 General Requirements and Information for the Certification of Radio communication Equipment

Test result: **Passed**

Date of issue:	31.01.12		Signature:
Issue-No.:	01	Author:	
Date of delivery:	19.05.2011	Checked:	
Test dates:	15.11.10 – 20.05.2011		

Test Report No.: 11-293

FCC ID: BCR-IONM17P26EU

IC ID: 2237D-IONM17P26EU



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General:

The purpose of this report is to show compliance to the FCC regulations for licensed devices operating under section 27 of the Code of Federal Regulations title 47.

This report informs about the results of the EMC tests, it only refers to the equipment under test. No part of this report may be reproduced in any form, without written permission.



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1 Test Results Summary

Name of Test	FCC Para. No.	FCC Method	FCC Spec.	Result
RF Power Output	27.50(h)	2.1046	1640 Watts/MHz	Complies
Occupied Bandwidth	2.1049	2.1049	Input/Output	Complies
Spurious Emissions at Antenna Terminals	27.53(m)	2.1051	-13dBm	Complies
Field Strength of Spurious Emissions	27.53(m)	2.1053 TIA/EA-603	-13dBm E.I.R.P	Complies
Frequency Stability	27.54	2.1055	Must stay in band	NA

Name of Test	IC Para. No.	IC Method	Result
RF Power Output	RSS-131 6.4	RSS-GEN 4.8	Complies
Occupied Bandwidth	RSS-Gen 4.6	RSS-GEN 4.6.1	Complies
Spurious Emissions at Antenna Terminals	RSS-139 6.5	RSS-GEN 4.9	Complies
Field Strength of Spurious Emissions	RSS-139 6.5	RSS-GEN 4.9 SRSP-513	Complies
Frequency Stability	RSS-131 6.3	RSS-GEN 4.7	NA

Frequency stability is not applicable because the device uses a common oscillator to up convert and down convert the RF signal. The EUT does not contain modulation circuitry, or frequency generation, therefore the test was not performed.



2 Equipment under test (E.U.T.)

2.1 Description

Kind of equipment	ION-M17P/26 EU Repeater	
Andrew Ident. Number	Id.No. 7576454-0002	
Serial no.(SN)	11	
Revision	00	
Software version and ID	V 3.9.1.4	Id.No.7164581-00
Type of modulation and Designator	WiMAX (W7D) ☒	
Frequency Translation	F1-F1	☒
	F1-F2	☐
	N/A	☐
Band Selection	Software	☐
	Duplexer	☒
	Fullband	☐

2.1.1 Downlink

Pass band	2640 MHz – 2674 MHz
Max. composite output power based on one carrier per path (rated)	37,5 dBm = 5,623 W
Gain max*	4,5 dB @ Pout BTS of 33 dBm

*see 2.1.5

2.1.2 Uplink

Pass band	n.a.
Max. composite output power based on one carrier per path (rated)	n.a.
Gain max*	n.a.

*see 2.1.5

2.1.3 Description of EUT

This Test Report describes only the approval of the 2600MHz Path of the Extension Unit (ION-M17P/26 EU). The EUT is the Extension Unit plus the Combining Unit. The ION-M17P/26 EU Extension Unit consists of one 1700 MHz path and one 2600MHz with the intended use of simultaneous transmission

2.1.4 System diagrams

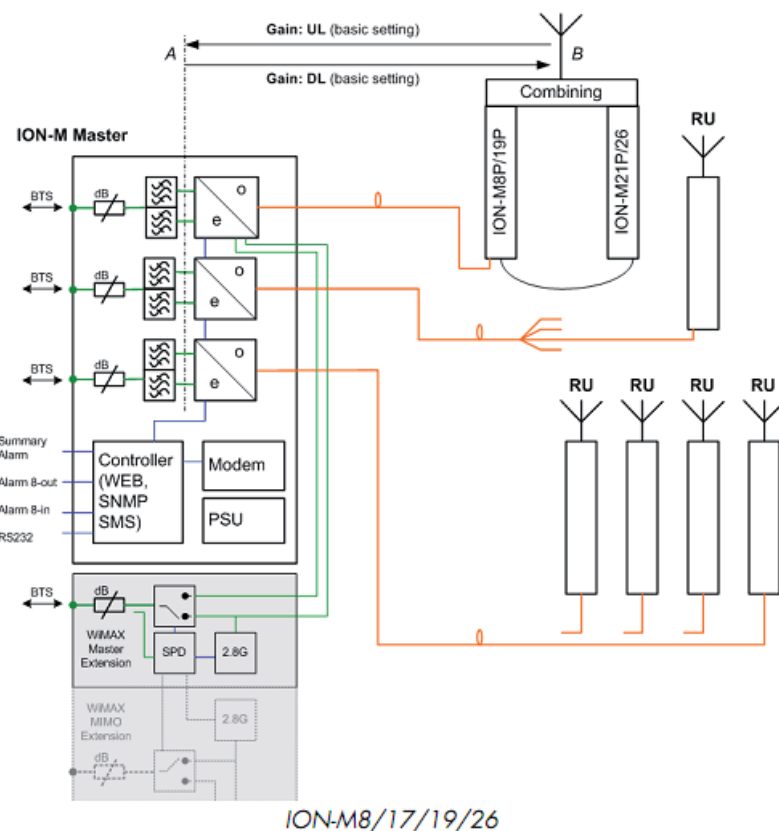
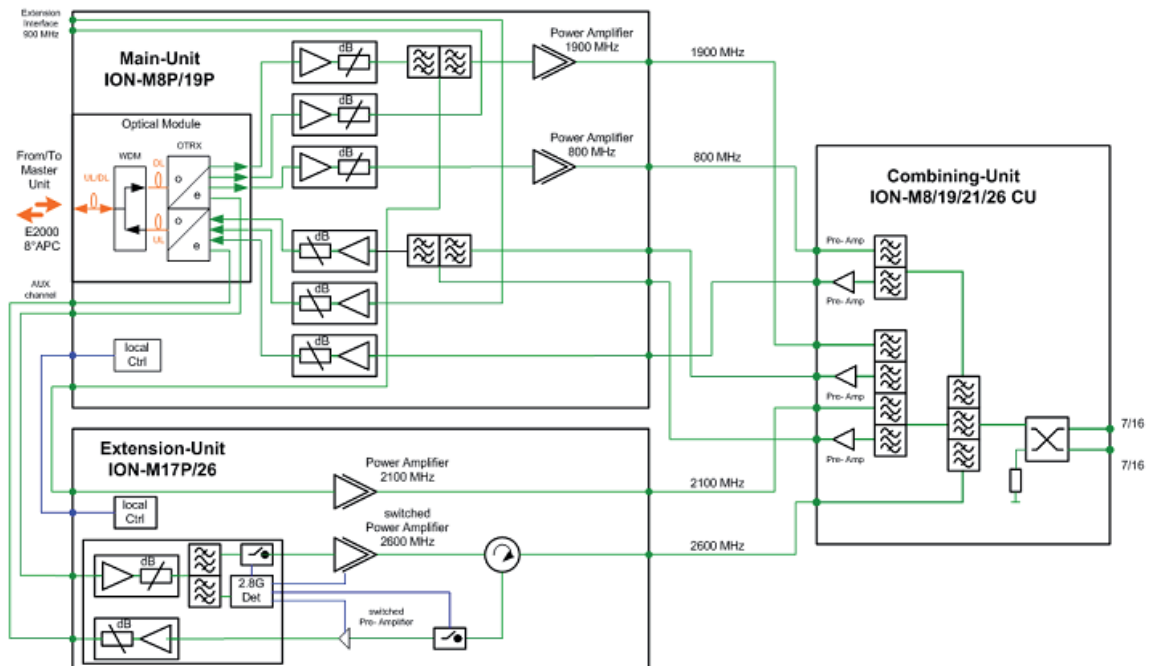


figure 2.1.4-#1 System diagrams: Application example

2.1.5 Block diagram of measurement reference points

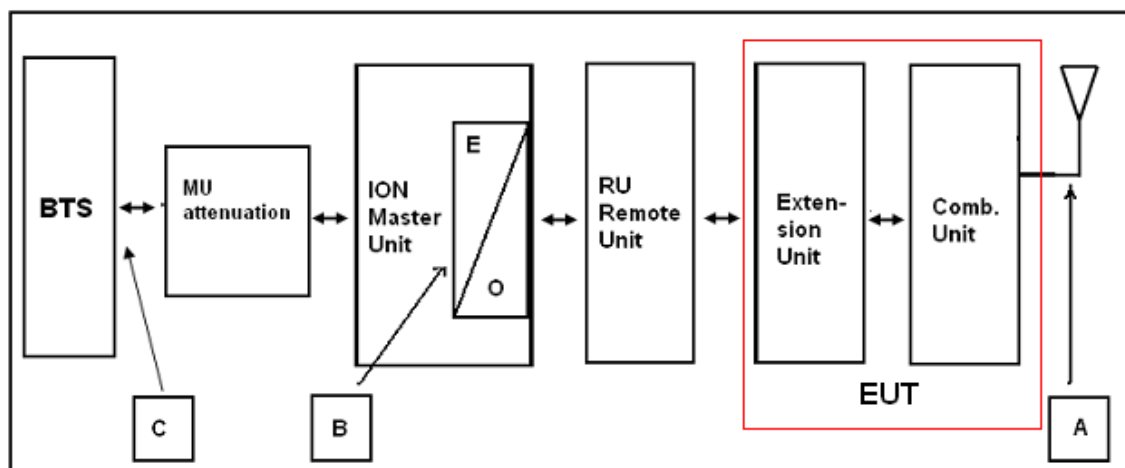


figure 2.1.5-#1 Block diagram of measurement reference points

Extension Unit plus Combining Unit is the EUT

O/E Optcal/Electrical converter

SRMU SubRackMaster Unit

Reference point A, Combining Unit DL output

Reference point B, SRMU UL output, DL input

Reference point C, BTS DL output, UL input

3 Test site (Andrew Buchdorf)

3.1 Test environment

All tests were performed under the following environmental conditions:

Condition	Minimum value	Maximum value
Barometric pressure	86 kPa	106 kPa
Temperature	15°C	30°C
Relative Humidity	20 %	75 %
Power supply range	±5% of rated voltages	

3.2 Test equipment

ANDREW Inv. No.	Test equipment	Type	Manufacturer	Serial No.	Calibration
8741	Network Analyzer	ZVRE	R&S	100034	02/2011
8798	Spectrum Analyzer	FSIQ	R&S	102157	03/2011
8890	Spectrum Analyzer	FSP	R&S	100674	07/2011
8848	Generator	E4438C	Agilent	My45092504	07/2011
8667	Power Meter	E4418A	Agilent	GB38273230	04/2011
8668	Power Sensor	E8481H	Agilent	US3318A19208	04/2011
7355	Power Amplifier	3-Band Amp	Andrew	----	CIU
7157	RF-Cable	Succoflex	Suhner	36180/4P	CIU
7158	RF-Cable	Succoflex	Suhner	36182/4P	CIU
7289	RF-Cable	Succoflex	Suhner	28443/4PE	CIU
7290	RF-Cable	Succoflex	Suhner	28444/4PE	CIU
7385	RF-Cable	Succoflex	Suhner	36267/4P	CIU
7387	RF-Cable	Succoflex	Suhner	36267/4P	CIU
7390	RF-Cable	Succoflex	Suhner	40193/4P	CIU
7381	RF-Cable	Succoflex	Suhner	40200/4P	CIU
7384	RF-Cable	Succoflex	Suhner	40448/4P	CIU
7294	RF-Cable	Succoflex	Suhner	40448/4P	CIU
7382	RF-Cable	Succoflex	Suhner	40221/4P	CIU

CIU = Calibrate in use

3.3 Input and output losses

All recorded power levels should be referenced to the input and output connectors of the repeater, unless explicitly stated otherwise.

The test equipment used in this test has to be calibrated, so that the functionality is also checked.

All cables, attenuators, splitter, isolator, circulator and combiner etc. must be measured before testing and used for compensation during testing.

3.4 Measurement uncertainty

The extended measurement uncertainty corresponds to the measurement results from the standard measurement uncertainty multiplied by the coverage factor $k=2$. The true value is located in the corresponding interval with a probability of 95 %.

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4 Test site (TEMPTON Service Plus GmbH)

FCC Test Site No.: 96997

IC OATS No.: IC3475A-1

See relevant dates under section 8.

5 RF Power Out: §27.50, §2.1046; RSS-131, RSS-GEN

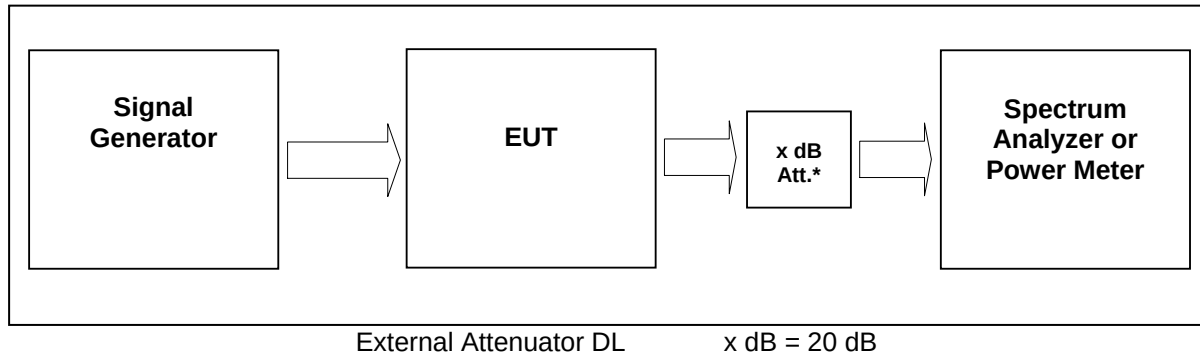


figure 3.4-#1 Test setup: RF Power Out: §27.50, §2.1046; RSS-131, RSS-GEN

Measurement uncertainty	± 0,38 dB
Test equipment used	8890; 8667; 8668; 8848

5.1 Limit

Minimum standard:

Para. No.27.50(h)(1)

(h) The following power limits shall apply in the BRS and EBS

(1) *Main, booster and base stations.* (i) The maximum EIRP of a main, booster or base station shall not exceed $33 \text{ dBW} + 10\log(X/Y) \text{ dBW}$, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition...

Maximum (EIRP): for 10MHz channel bandwidth: $<33\text{dBW} + 10\log(10\text{MHz}/6\text{MHz})\text{dBW} = 65\text{dBm}$

5.2 Test method

§ 2.1046 Measurements required: RF power output.

(a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

(c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations

(c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations

5.3 Test results

Detector RMS.

Test signal WiMAX:

A practical WiMAX down link sub frame (8 bursts) is set up with five bursts with QPSK modulated subcarriers, two bursts with 16QAM modulated sub-carriers and one burst with 64QAM modulated sub-carrier. Hence the the actual modulation scheme per sub-carrier does have a neglect able impact on the signals crest factor and thus will impact the overall quality value only slightly.

5.3.1 Downlink

Modulation	Measured at	RBW VBW Span	RF Power (dBm)	RF Power (W)	Plot -
WiMAX	2657 MHz	20MHz 30MHz 50MHz	37,5	5,623	5.3.1.1 #1
Maximum output power = 37,5 dBm -> 5,623 W					
Limit Maximum output power = 1640 W -> 62,15 dBm					

table 5.3.1-#1 RF Power Out: §27.50, §2.1046; RSS-131, RSS-GEN Test results Downlink

The max RF Power out is 37.5 dBm, so the maximum antenna gain (x) can be calculated as follow:

Limit = 65 dBm

65 dBm > 37.5 dBm + x

27.5 dBi > x

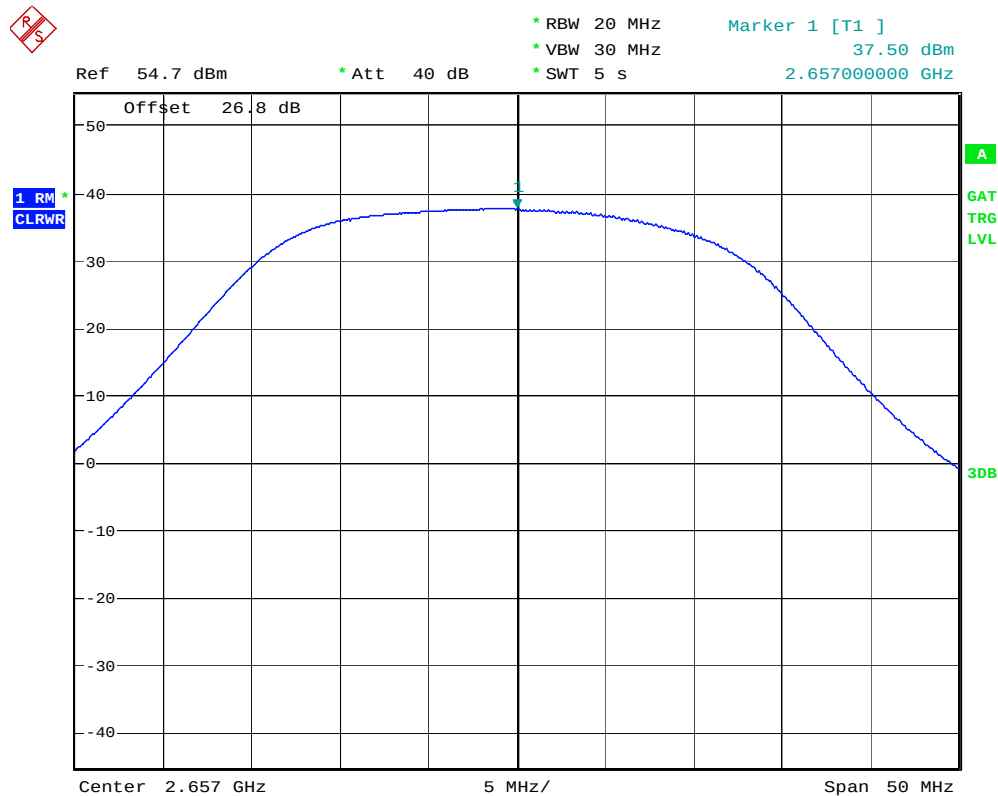
The antennas that will use for the complete system in the end have to have a gain lower than 27.5 dBi.

Modulation	Pin / dBm (Ref. point B)
WiMAX	16,6

table 5.3.1-#2 RF Power Out: §27.50, §2.1046; RSS-131, RSS-GEN Test results Downlink Input power



5.3.1.1 WiMAX



Date: 29.NOV.2010 14:00:15

plot 5.3.1.1-#1 RF Power Out: \$27.50, \$2.1046; RSS-131, RSS-GEN; Test results; Downlink; WiMAX

5.3.2 Uplink

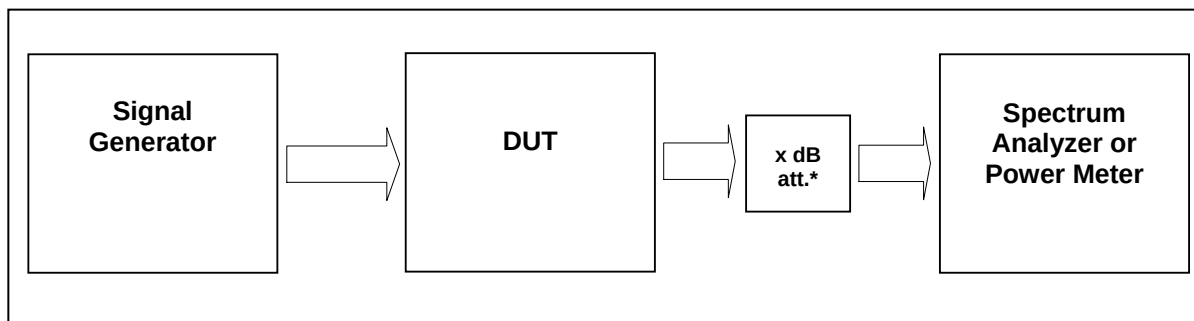
n.a.

Note: The EUT does not transmit over the air in the uplink direction.

5.4 Summary test result

Test result	complies, according the plots above
Tested by:	W. Meir
Date:	29.11.2010

6 Occupied Bandwidth: §2.1049; RSS-GEN



External Attenuator DL x dB = 20 dB
figure 5.4-#1 Test setup: Occupied Bandwidth: §2.1049; RSS-GEN

Measurement uncertainty	± 0,38 dB
Test equipment used	8890; 8667; 8668; 8848

6.1 Limit

The spectral shape of the output should look similar to input for all modulations.

6.2 Test method

Para. No.2.1049

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable:

(h) Transmitters employing digital modulation techniques—when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the user.

6.3 Test results

6.3.1 Downlink

Detector RMS.

Modulation	Measured at		RBW VBW Span	Occupied Bandwidth / MHz	Plot #
WiMAX	middle	2657,5 MHz	100kHz 1MHz 20MHz	9,12	6.3.1.1 #1, #2

table 6.3-#1 Occupied Bandwidth: §2.1049; RSS-GEN Test results Downlink

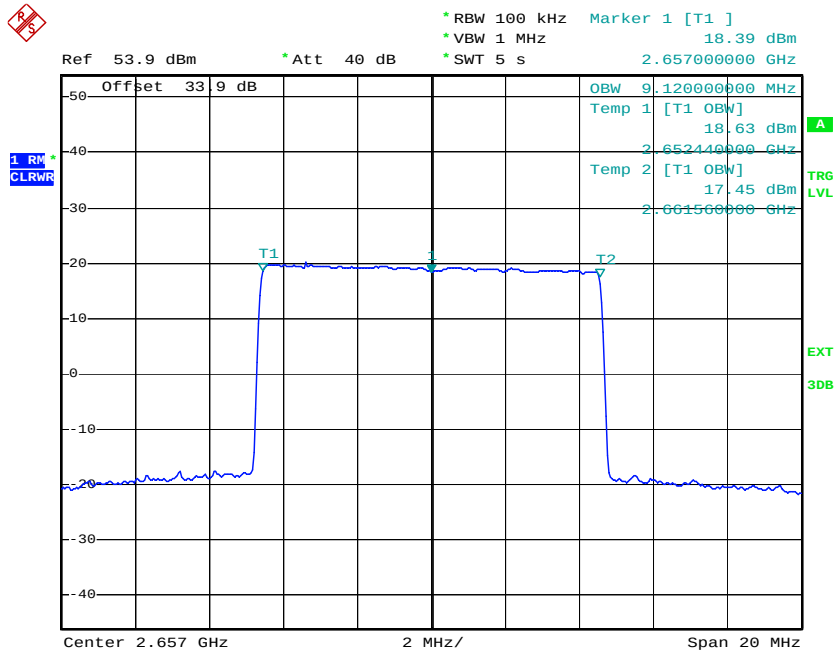
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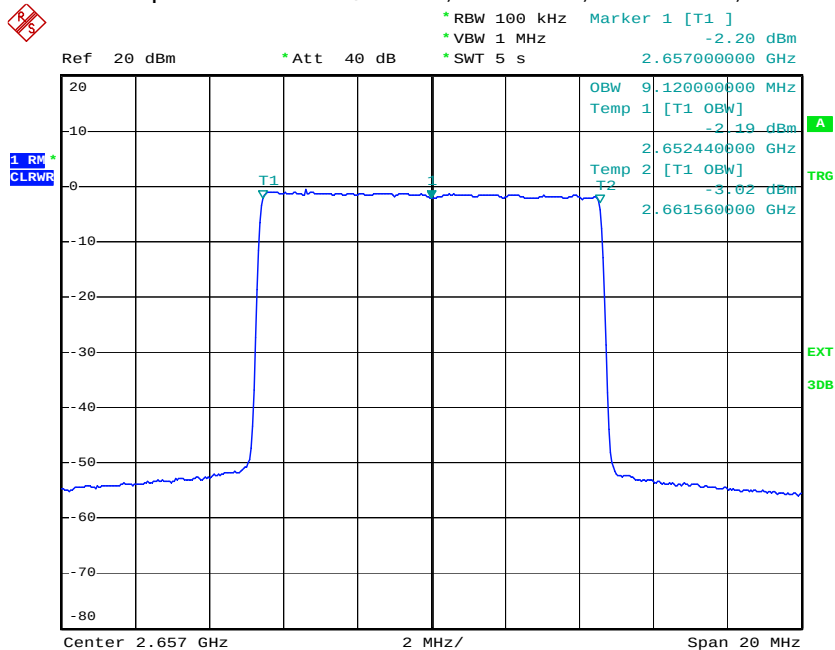


6.3.1.1 WiMAX



Date: 13.NOV.2010 10:31:12

plot 6.3.1.1-#1 Occupied Bandwidth: \$2.1049; RSS-GEN; Test results; Downlink; WiMAX Output



Date: 13.NOV.2010 10:34:09

plot 6.3.1.1-#2 Occupied Bandwidth: \$2.1049; RSS-GEN; Test results; Downlink; WiMAX Input

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IC ID: 2237D-IONM17P26EU



6.3.2 Uplink

n.a.

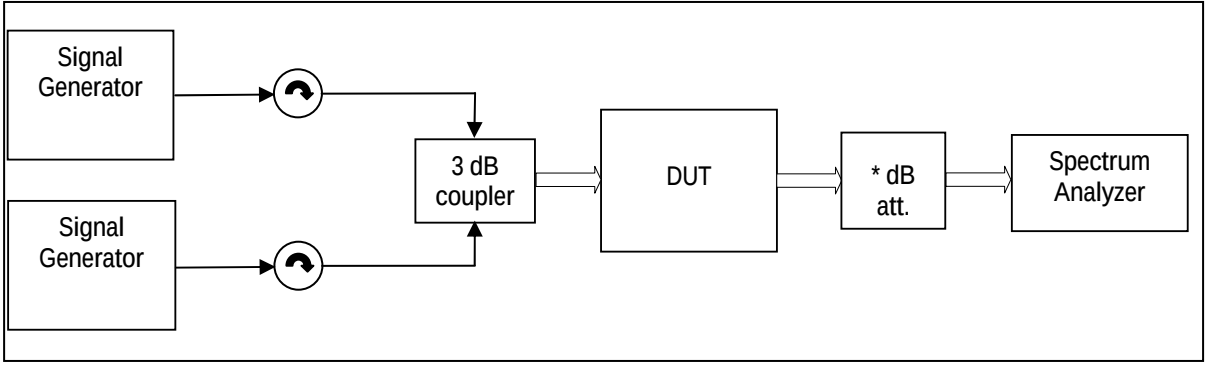
Note: The EUT does not transmit over the air in the uplink direction.

6.4 Summary test result

Test result	complies, according the plots above
Tested by:	W. Meir
Date:	13.11.2010



7 **Spurious Emissions at Antenna Terminals: §27.53, §2.1051; RSS-131, RSS-GEN**



Multisignal-Generator used, External Attenuator DL x dB = 20 dB
figure 7-#1 Test setup: Spurious Emissions at Antenna Terminals: §27.53, §2.1051; RSS-131, RSS-GEN

Measurement uncertainty	$\pm 0,54$ dB $\pm 1,2$ dB $\pm 1,5$ dB	9 kHz to 3 GHz 3 GHz to 7 GHz 7 GHz to 26 GHz
Test equipment used	8813; 8890; 8667; 8668; 8848; 8798	

7.1 **Limit**

Minimum standard:
Para. No.27.53(m)(2) and (m)(6)
Compliance with FCC part 2.1051 an part 27.53(l)(2) and part 27.53(l)(6), based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater, the attenuation below the transmitter power (P) measured in watts shall be not less than 43 + 10log(P) dB.

Limit: $<P - (43 + 10\log(P)) = 10\log(1000 \cdot P) - (43 + 10\log(P)) = 30 - 43 = -13\text{dBm}$

7.2 **Test method**

Para. No 2.1051 Measurements required: Spurious emissions at antenna terminals.
The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in § 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

[39 FR 5919, Feb. 15, 1974. Redesignated and amended at 63 FR 36599, July 7, 1998]



7.3 Test results

7.3.1 Downlink

<1MHz from Band Edge

Detector: RMS.

Modulation	Measured at Band Edge	Carriers	RBW VBW Span	Max. level (dBm)	Plot -
WiMAX	Lower Edge	2645 MHz	100kHz 1MHz 30MHz	-17,4	7.3.1.1 #1
	Upper Edge	2655 MHz 2659 MHz 2669 MHz		-18,2	#2

table 7.3-#1 Spurious Emissions at Antenna Terminals: §27.53, §2.1051; RSS-131, RSS-GEN Test results Downlink <1MHz from Band Edge

>1MHz from Band Edge

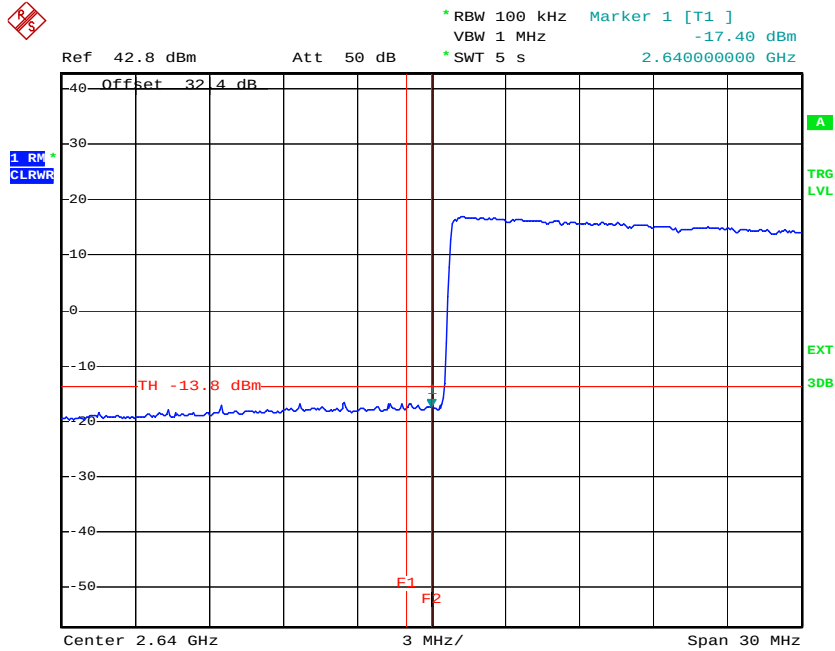
Detector: RMS.

Modulation	Carrier at	Carrier	Max. level (dBm)	RBW VBW Frequency range	Plot -
WiMAX	Middle	2657 MHz	< -23	1MHz 3MHz 30MHz – 26,5GHz	7.3.1.2 #1

table 7.3-#2 Spurious Emissions at Antenna Terminals: §27.53, §2.1051; RSS-131, RSS-GEN Test results Downlink >1MHz from Band Edge

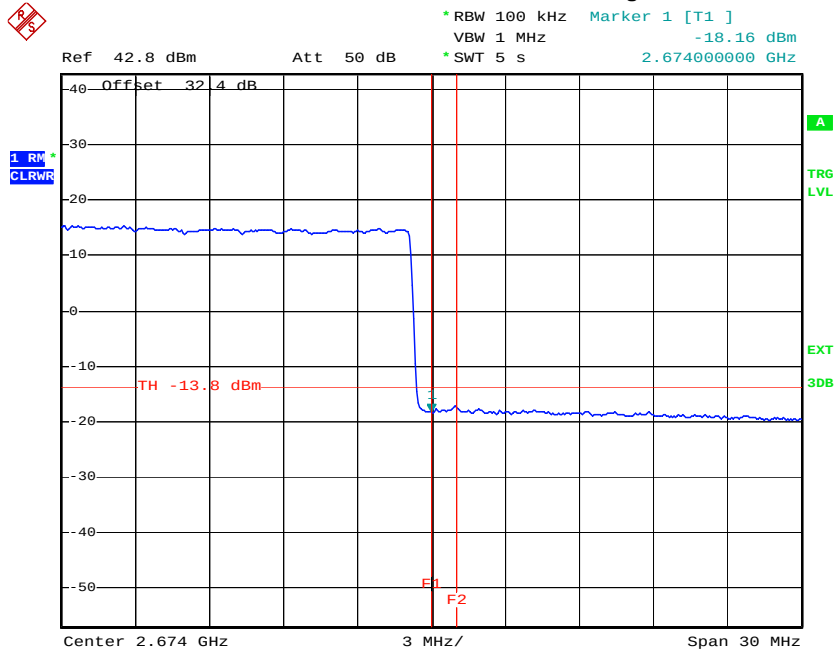


7.3.1.1 WiMAX < 1MHz to band edge



Date: 12.NOV.2010 15:52:43

plot 7.3.1.1-#1 Spurious Emissions at Antenna Terminals: §27.53, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; WiMAX < 1MHz to band edge Lower Band Edge



Date: 12.NOV.2010 15:55:59

plot 7.3.1.1-#2 Spurious Emissions at Antenna Terminals: §27.53, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; WiMAX < 1MHz to band edge Upper Band Edge

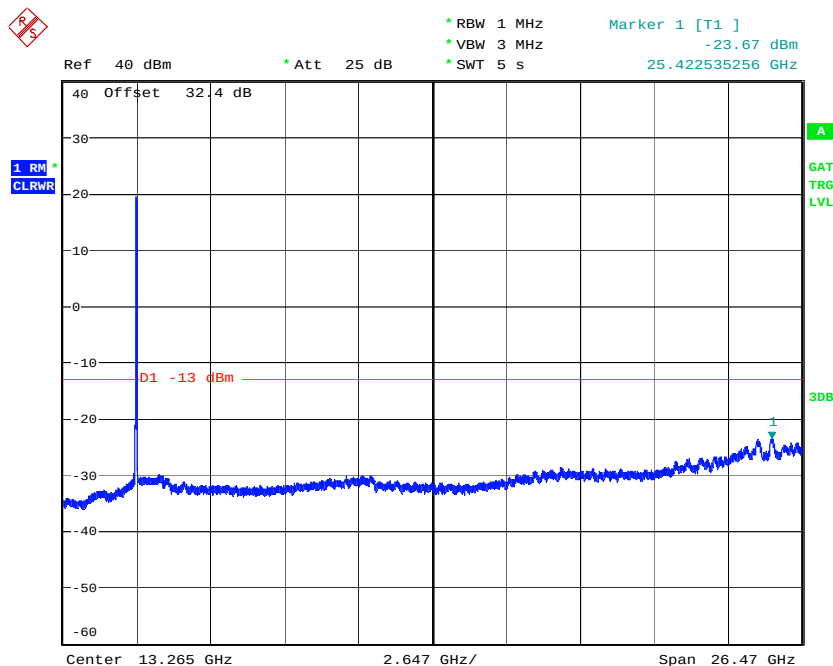
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7.3.1.2 WiMAX > 1MHz to band edge



Date: 15.NOV.2010 18:54:44

plot 7.3.1.2-#1 Spurious Emissions at Antenna Terminals: §27.53, §2.1051; RSS-131, RSS-GEN; Test results; Downlink; WiMAX > 1MHz to band edge; carrier (2132,5MHz) notched

n.a.

Note: The EUT does not transmit over the air in the uplink direction.

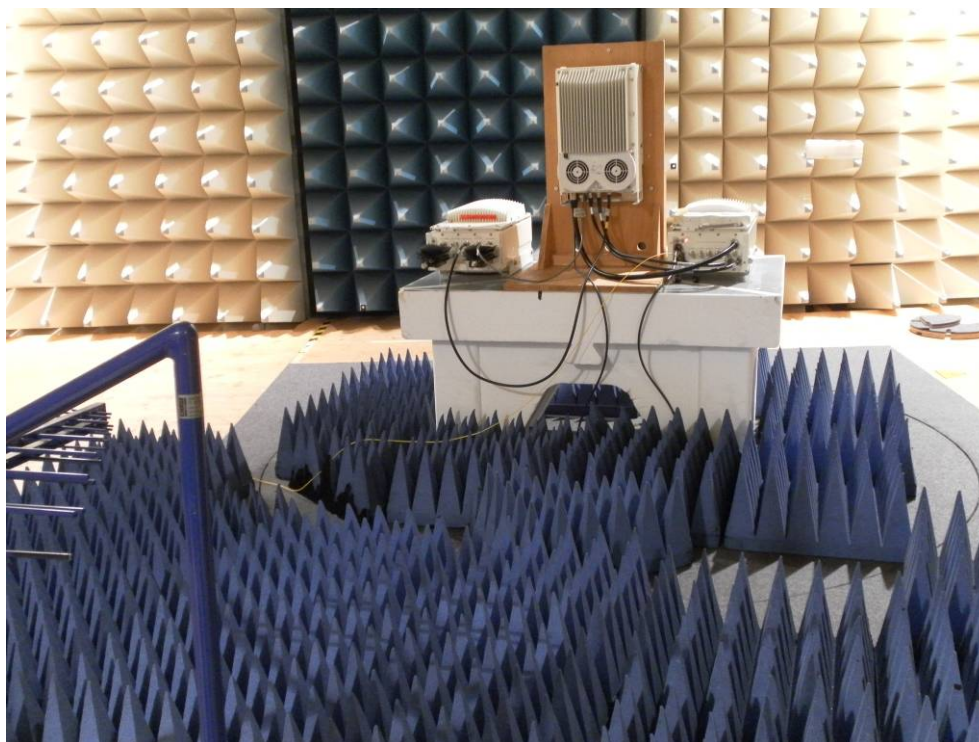
7.4 Summary test result

Test result	complies, according the plots above
Tested by:	W. Meir
Date:	12.11.2010

8 Field Strength of Spurious Emissions: §27.53, §2.1053



picture 8.1: label



picture 8.2: Test setup: Field Strength Emission <1 GHz @3m in the FAC



picture 8.3: Test setup: Field Strength Emission >1 GHz @3m in the FAC



picture 8.4: Test setup: Field Strength Emission >20 GHz @3m in the FAC

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This clause specifies requirements for the measurement of radiated emission.

Frequency range	Distance: EUT <-> antenna / location	Limit	Test method
30 MHz - 1 GHz	3 metres / FAC	FCC 47 CFR Part 27.53	TIA/EIA-603-C:2004
		IC RSS-131	
1 GHz – 27 GHz		FCC 47 CFR Part 27.53	
		IC RSS-131	

Test equipment used:

Designation	Type	Manufacturer	Invent.-no.	Cal.-date	due Cal.- date	used
EMI test receiver	ESI40	Rohde & Schwarz	E1687	21.12.2010	21.12.2011	X
EMI test receiver	ESI40	Rohde & Schwarz	E1607	23.05.2011	23.05.2012	
Antenna	CBL 6111	Chase	K1149	02.08.2011	02.08.2012	X
Antenna	CBL 6111	Chase	K1026	30.05.2011	30.05.2012	
RF Cable	Rosenberger	Frankonia	K1121 SET	14.07.2011	14.07.2012	X
Pre amplifier	AM1431	Miteq	K1721	14.07.2011	14.07.2012	X
Antenna	HL 025	R&S	K809	25.07.2011	25.07.2012	X
Antenna	MWH-1826 / B	ARA Inc.	K1042	06.04.2009	06.04.2011	X
Preamplifier	AFS4-00102000	Miteq	K817	13.10.2011	13.10.2012	X
Preamplifier	JS43-1800-4000	Miteq	K1104	09.02.2011	09.02.2012	X
RF Cable	Sucoflex 100	Suhner	K1742	05.04.2011	05.04.2012	X

The REMI version 2.135 has been used for max search.

Test set-up:

Test location: SAC/FAC
Both, the Fully Anechoic Chamber (FAC) and the Semi Anechoic Chamber (SAC) fulfil the requirements of ANSI C63.4 and CISPR 16-1-4 with regards to NSA and SVSWR.

Test Voltage: 115V / 60 Hz

Type of EUT: Wall mounted

Measurement uncertainty:

Measurement uncertainty expanded (95% or K=2)	± 4,7 dB for ANSI C63.4 measurement ± 0,5 dB for TIA-603 measurement
--	---

8.1 Limit §27.53

Minimum standard:

Para. No.27.53(m)(2) and (m)(6)

Compliance with FCC part 2.1051 an part 27.53(l)(2) and part 27.53(l)(6), based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater, the attenuation below the transmitter power (P) measured in watts shall be not less than $43 + 10\log(P)$ dB.

Limit: $<P - (43 + 10\log(P)) = 10\log(1000 \cdot P) - (43 + 10\log(P)) = 30 - 43 = -13\text{dBm}$

The emission measurements have been made with transmission at **Bottom/Middle/Top** frequency (**2640 MHz / 2657 MHz / 2674 MHz**)

The limit is -13dBm (e.i.r.p.).

8.2 Test method ANSI/TIA/EA-603-C

Measurement procedure. TIA-603-C

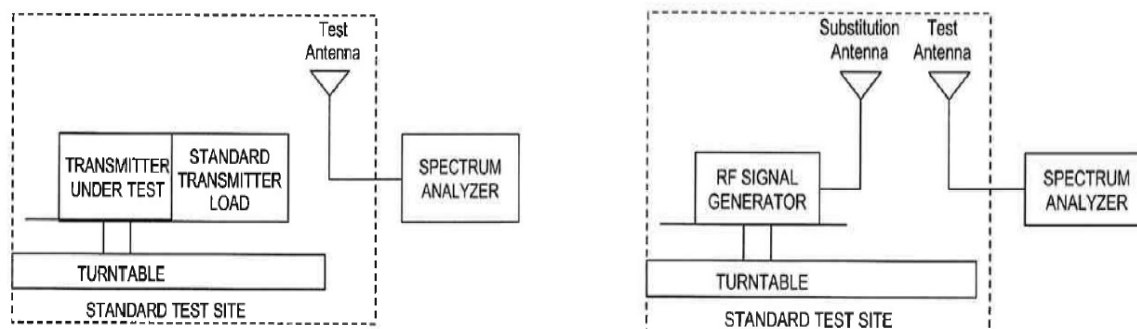
The antenna substitution method is used to determine the equivalent radiated power at spurious frequencies. The spurious emissions are measured at a distance of 3 meters. The EUT is then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna is fed with a signal at the spurious frequency. The level of the signal is adjusted to repeat the previously measured level. The resulting eirp is the signal level fed to the reference antenna corrected for gain referenced to an isotropic dipole (see Figure 7.2).

From KDB (AMPLIFIER, BOOSTER, AND REPEATER REMINDER SHEET):

Radiated spurs (enclosure) – Use of CW signal (low, mid. and high freq.) is acceptable rather than all modulations.

The maximum RFI field strength was determined during the measurement by rotating the turntable (± 180 degrees) and varying the height of the receive antenna ($h = 1 \dots 4$ m) as like defined in ANSI C63.4. A measurement receiver has been used with a RBW 120 kHz up to 1 GHz and 1 MHz above 1 GHz. Steps with during pre measurement was half the RBW.

Both, the Fully Anechoic Chamber (FAC) and the Semi Anechoic Chamber (SAC) fulfil the requirements of ANSI C63.4 and CISPR 16-1-4 with regards to NSA and SVSWR.



picture 8.3: Substitution method

8.3 Climatic values in the lab

Temperature: 20°
Relative Humidity: 45%
Air-pressure: 1009hPa

8.4 Test results

8.4.1 30 MHz to 1 GHz Downlink (Bottom – Middle – Top)

B/M/T: 2640 MHz / 2657 MHz / 2674 MHz

Polarisation: horizontal, vertical



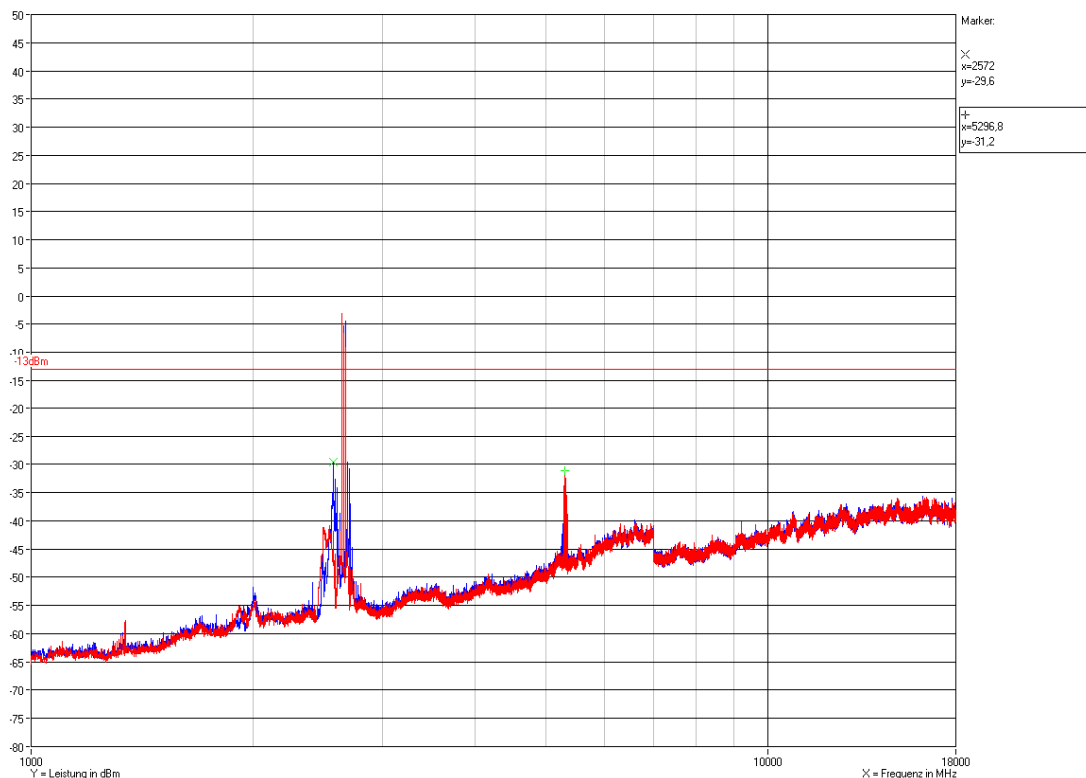
Plot 8.1: Measurement: Field Strength Emission <1 GHz @3m in the FAC max.hold

Frequency [MHz]	Polarity H/V	Reading [dBuV]	Factor dBuV -> dBm	Measuring [dBm]	Limit [dBm]	Margin [dB]
34,8	V	-84,2	33,0	-51,2	-13,0	38,2
37,5	V	-94,7	29,0	-65,7	-13,0	52,7
46,8	V	-89,1	20,6	-68,5	-13,0	55,5
50,58	V	-93,5	18,7	-74,8	-13,0	61,8
64,5	V	-85,9	15,3	-70,6	-13,0	57,6
65,76	V	-83,4	15,1	-68,3	-13,0	55,3
39	H	-91,6	26,6	-65,0	-13,0	52,0

8.4.2 1 GHz to 20 GHz Downlink (Bottom – Middle – Top)

B/M/T: 2640 MHz / 2657 MHz / 2674 MHz

Polarisation: horizontal, vertical



Plot 8.2: Measurement: Field Strength Emission >1 GHz to 20GHz @3m in the FAC max.hold

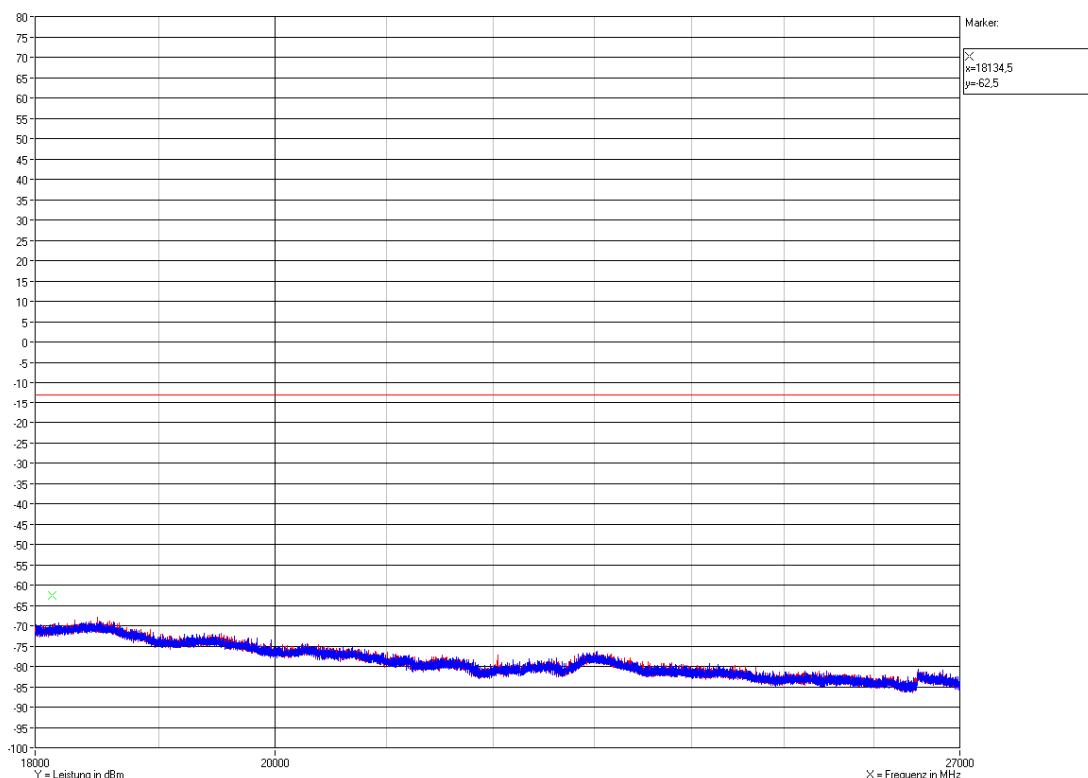
Frequency [MHz]	Polarity H/V	Reading [dBuV]	Factor dBuV -> dBm	Measuring [dBm]	Limit [dBm]	Marchin [dB]
2,640	V	-27,6	24,5	-3,1	-13,0	-9,9*
2,657	V	-31,2	24,5	-6,7	-13,0	-6,3*
2,674	V	-33,8	24,7	-9,1	-13,0	-3,9*
5,297	V	-62,8	31,6	-31,2	-13,0	18,2
2,541	V	-64,3	23,5	-40,8	-13,0	27,8
2,408	H	-74,3	23,3	-51,0	-13,0	38,0
2,572	H	-53,5	23,9	-29,6	-13,0	16,6
5,297	H	-63,1	31,6	-31,5	-13,0	18,5
2,640	H	-31,1	24,5	-6,6	-13,0	-6,4*
2,674	H	-29,1	24,7	-4,4	-13,0	-8,6*

*remark: These frequencies are the fundamentals.

8.4.3 20 GHz to 27 GHz Downlink (Bottom – Middle – Top)

B/M/T: 2640 MHz / 2657 MHz / 2674 MHz

Polarisation: horizontal, vertical



Plot 8.3: Measurement: Field Strength Emission > 20GHz to 27GHz @3m in the FAC max.hold

Frequency [MHz]	Polarity H/V	Reading [dBuV]	Factor dBuV -> dBm	Measuring [dBm]	Limit [dBm]	Margin [dB]
18313,000	H	-61,0	-7,6	-68,6	-13,0	55,6
18498,000	V	-60,4	-7,5	-67,9	-13,0	54,9

8.5 Summary test result

Test result	complies, according to the plots above
Tested by:	Tom Zahlmann
Date:	20.05.2011

Test Report No.: 11-293

FCC ID: BCR-IONM17P26EU

IC ID: 2237D-IONM17P26EU



9 History

Revision	Modification	Date	Name
V01.00	Initial report	31.01.2012	T. Zahlmann

******* End of test report *******