

FCC Part 15E Compliance Test Report

Test Report no.:	FCC15E_RM-696_28.docx	Date of Report:	21-Jul-2011
Number of pages:	51	Customer's Contact person:	Timo Peltola
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FCC listing no.:	94436		
IC recognition no.:	661AK-1		
Tested devices/ accessories:	Phone RM-696 / Battery BV-5JW, AC charger AC-16E, Data cable CA-185CD, Headset WH-901		
FCC ID:	LJPK	IC:	-
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Part 15 Subpart E, ANSI C63.4 (2003), Public Notice DA-02-2138A1, IC standards RSS-GEN (Issue 3, December 2010) and RSS-210 (Issue 8, December 2010). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		
Documentation:	The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test Results:	The EUT complies with the requirements in respect of all parameters subject to the test. The test results relate only to devices specified in this document.		
Date and signature for the contents:			

Jari Jantunen, System Manager, EMC

1. Summary for FCC Part 15E Compliance Test Report

Date of receipt	27-May-2011
Testing completed	21-Jul-2011
The customer's contact person	Timo Peltola
Test Plan referred to	T:\Projects\RM-696\TestPlan\RS_testplan_RM-696.xls
Notes	-
Document name	FCC15E_RM-696_28.docx

1.1. EUT and Accessory Information

The EUT is a 9-band (GSM850/900/1800/1900 and WCDMA Band I/II(1900)/IV(1700)/V(850)/VIII) mobile phone with GPRS, EGPRS, Bluetooth and WLAN. Bluetooth and WLAN are tested with maximum rated TX power.

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-696	004402135480402	1501	-	V 0.2011.21-5 TA RM680	42578
Phone	RM-696	004402135480758	1501	-	V 0.2011.21-5 TA RM680	42570
Battery	BV-5JW	-	00-04A	-	-	-
AC charger	AC-16E	4090491166580400077; 0675491	0.31	0.3	-	42572
Data cable	CA-185CD	-	-	-	-	42575
Headset	WH-901	-	3.2	4.0	-	42576

1.2. Summary of Test Results

RLAN 5 GHz:

Section in CFR 47	Section in RSS-GEN or RSS-210	Name of the test	Result
15.407 (a)	A9.2	Peak output power	PASSED
15.407 (a) (6)	A9.2	Peak excursion	PASSED
15.407 (b) (6)	A9.2	AC power line conducted emissions	PASSED
-	-	26 dB bandwidth	PASSED
15.407 (a)	A9.2	Peak power spectral density	PASSED

PASSED
FAILED
NP

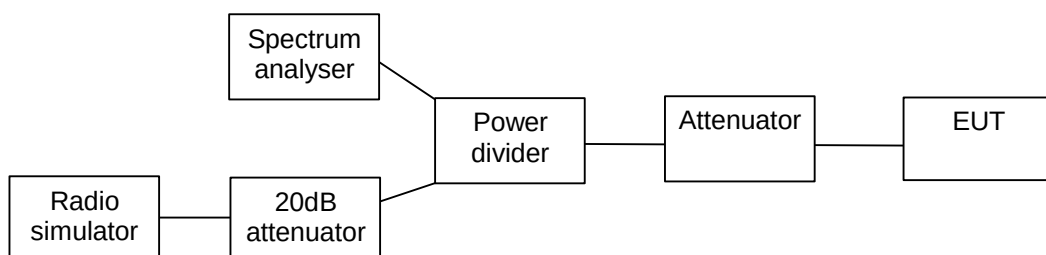
The EUT complies with the essential requirements in the standard.
The EUT does not comply with the essential requirements in the standard.
The test was not performed by the TCC Nokia Tampere Laboratory.

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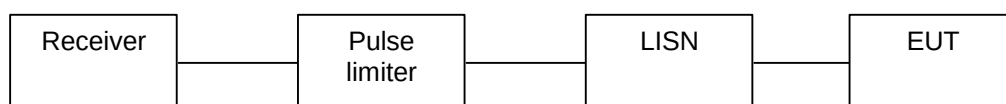
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2. Test setups

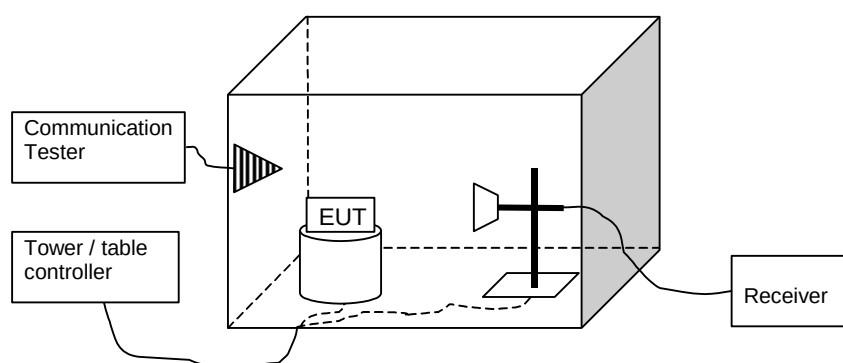
2.1. Conducted RF test setup



2.2. AC powerline conducted emissions test setup



2.3. Radiated test setup



3. Peak output power (FCC §15.407 (a), RSS-210 A9.2)

EUT with DUT number	RM-696 DUT 42578
Accessories with DUT numbers	BV-5JW DUT-
Operation Voltage [V] / [Hz]	Nominal
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22-23 / 48-53 / 98.9-99.7
Date of measurements	30-May and 21-Jul-2011
Measured by	Jari Jantunen

3.1. Test method and limit

The measurement is made according to Public Notice DA-02-2138A1 and IC standard RSS-210.

Limits for peak output power measurements

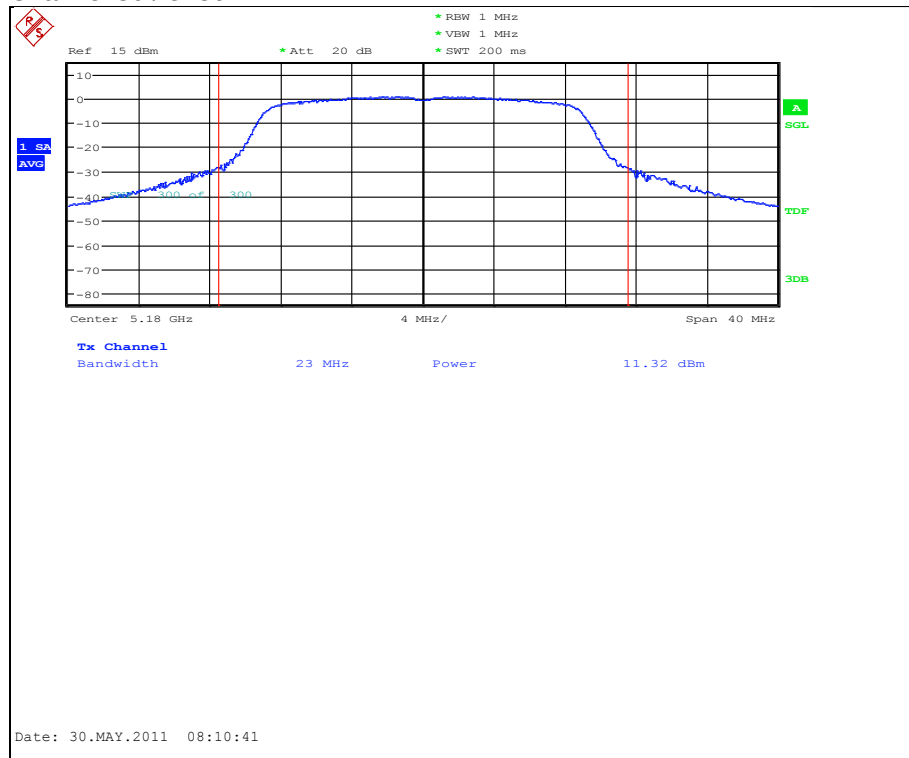
Frequency range [MHz]	Limit [mW] / (dBm)	Limit [dBm]	Limit [dBm] for B=20 MHz
5150-5250	50 (17)	4+10 log B	17
5250-5350	250 (24)	11+10 log B	24
5470-5725	250 (24)	11+10 log B	24
5725-5825	1000 (30)	17+10 log B	30

3.2. RLAN 5 GHz Test results

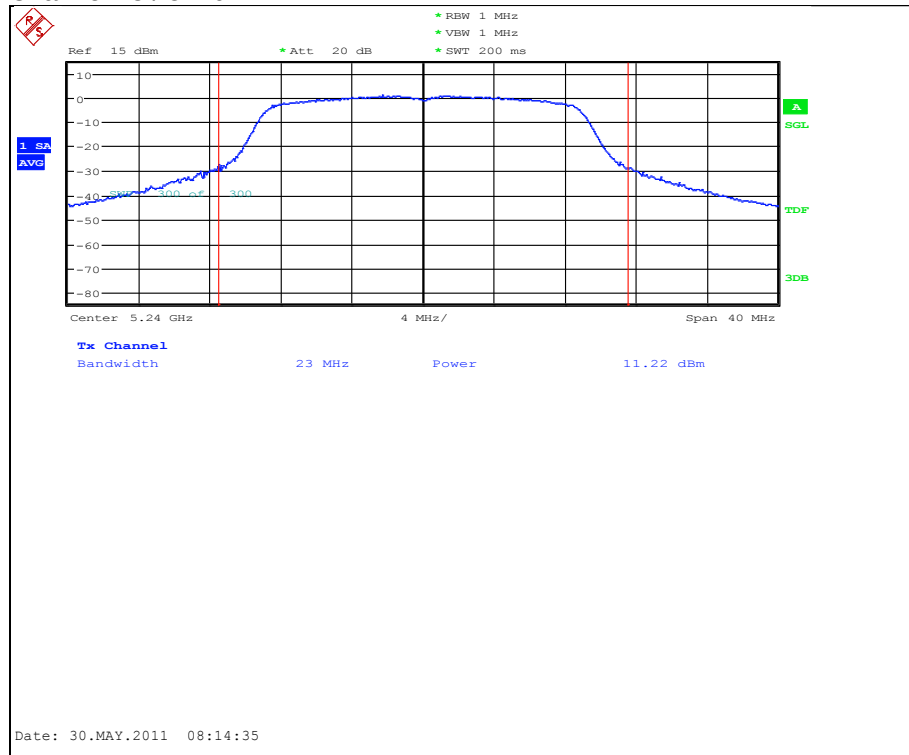
3.2.1 OFDM mode, BPSK modulation, n-6.5 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	11.32	13.55	PASSED
48 / 5240	11.22	13.24	PASSED
52 / 5260	13.30	21.38	PASSED
64 / 5320	15.46	35.16	PASSED
100 / 5500	15.53	35.73	PASSED
136 / 5680	15.91	38.99	PASSED
149 / 5745	13.44	22.08	PASSED
161 / 5805	15.18	32.96	PASSED

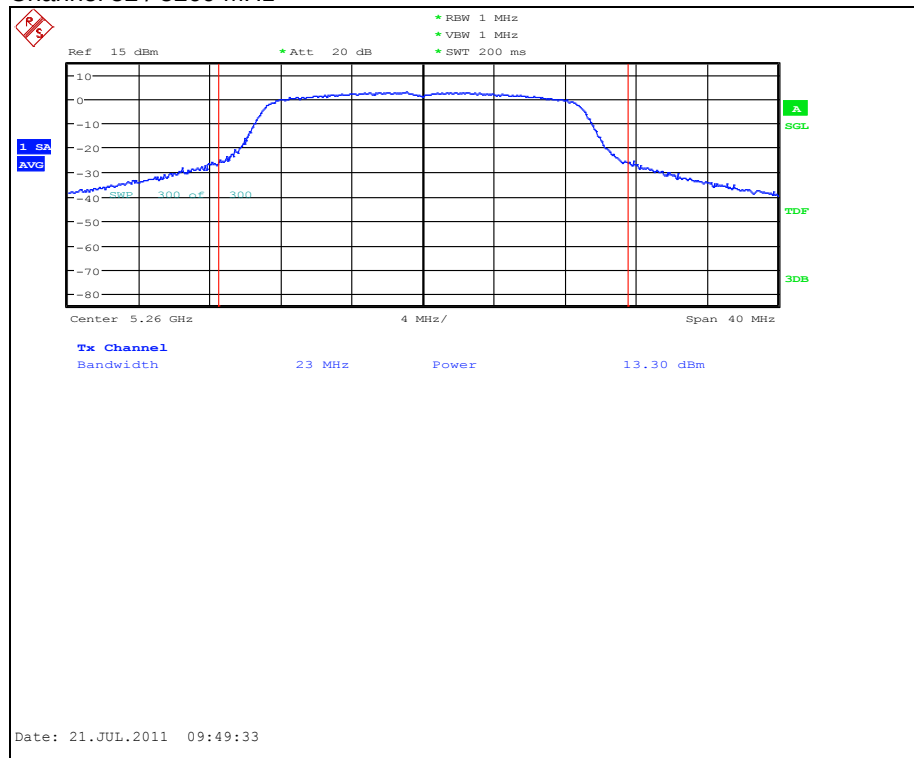
Channel 36 / 5180 MHz



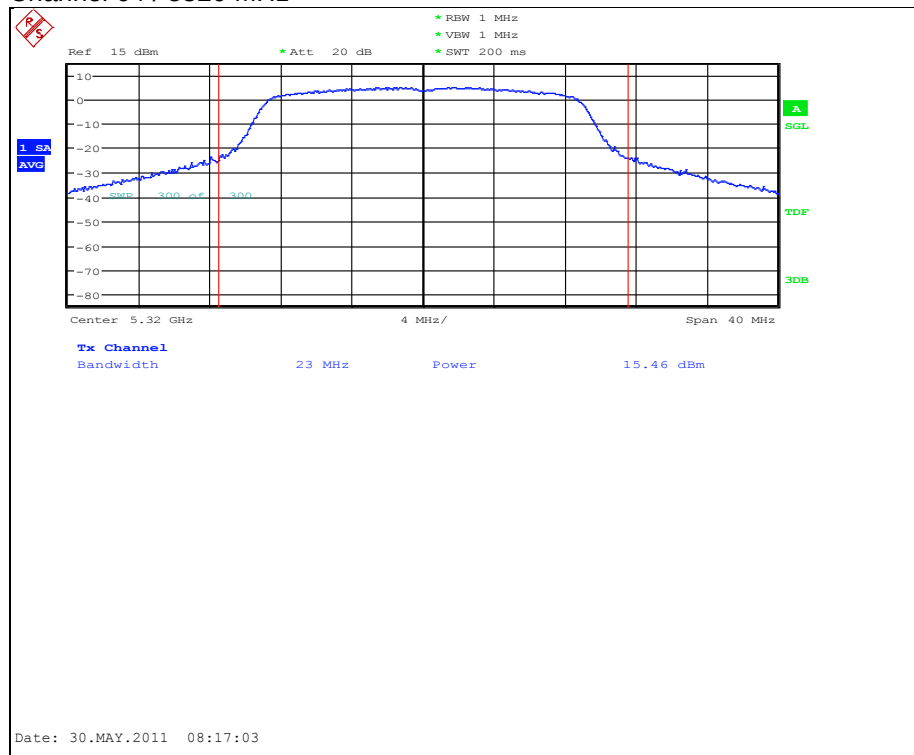
Channel 48 / 5240 MHz



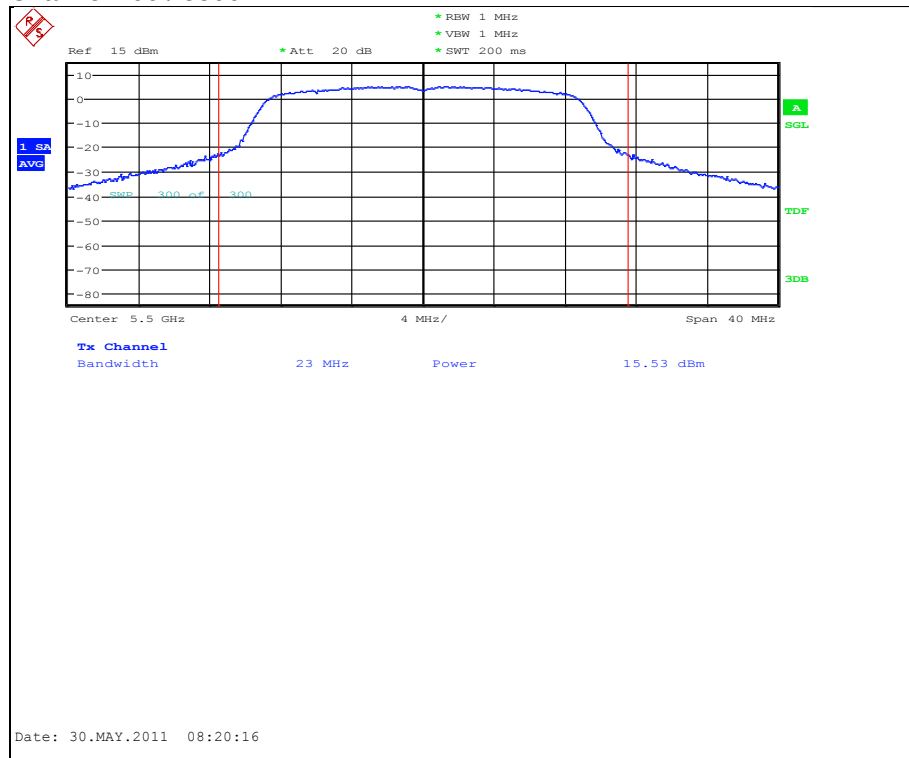
Channel 52 / 5260 MHz



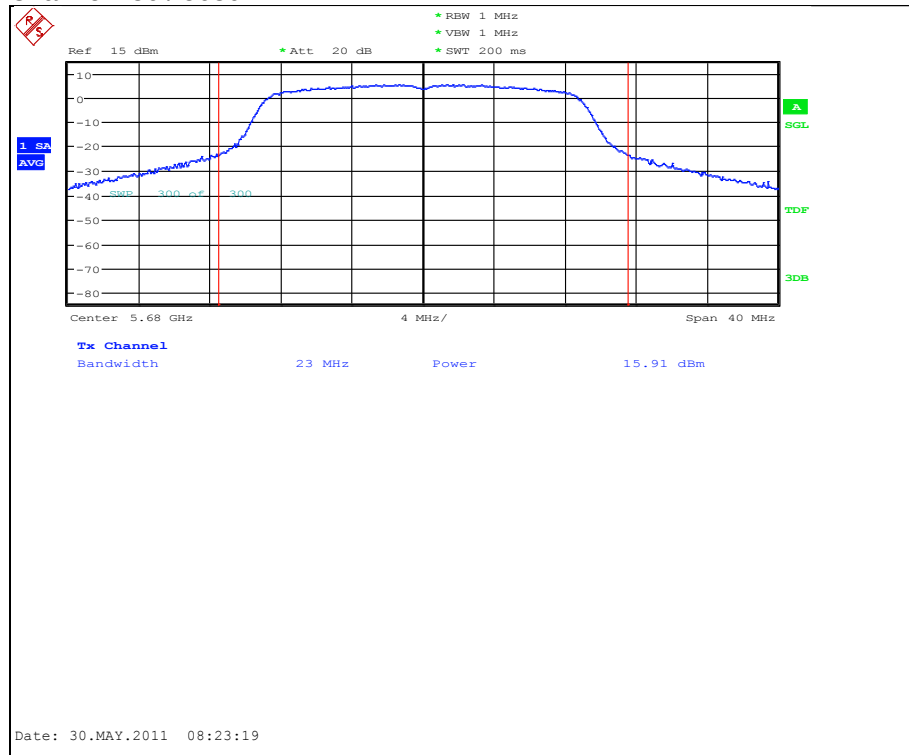
Channel 64 / 5320 MHz



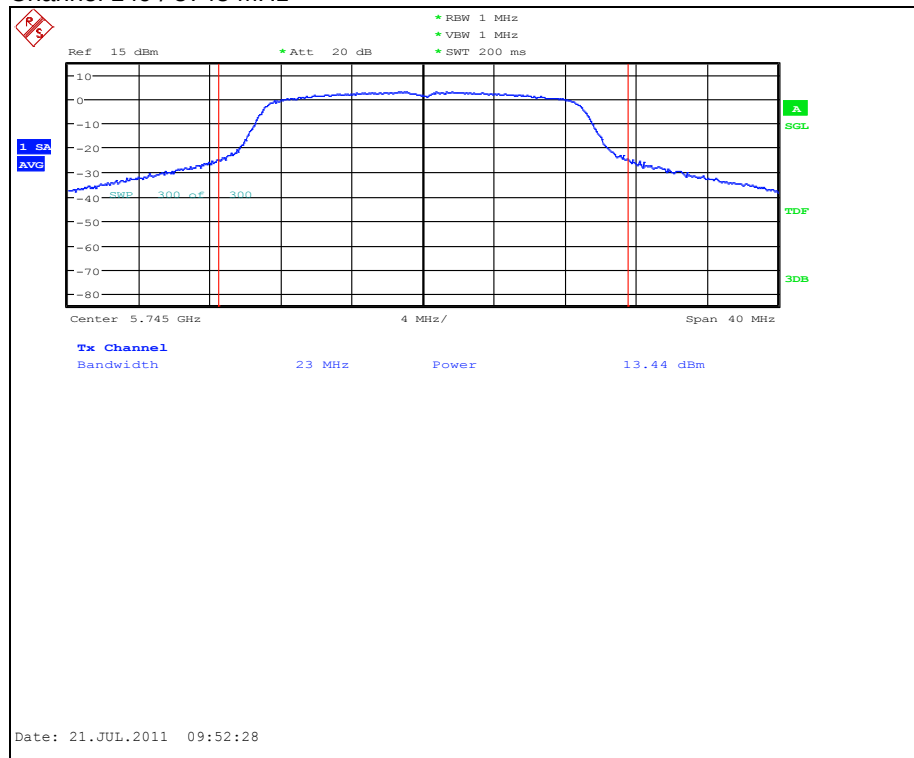
Channel 100 / 5500 MHz



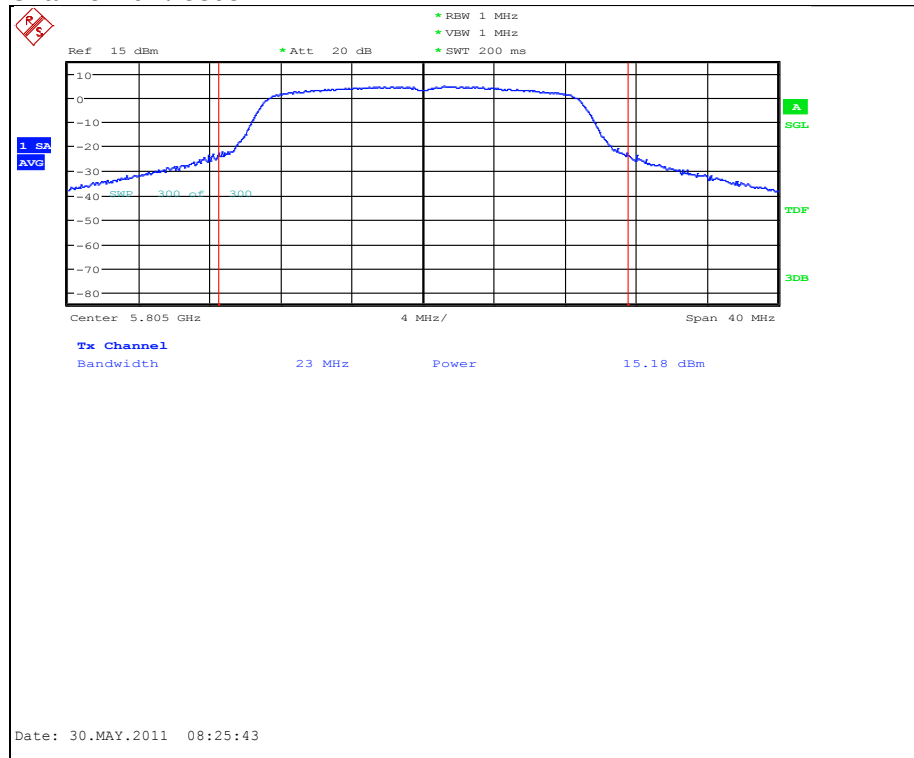
Channel 136 / 5680 MHz



Channel 149 / 5745 MHz



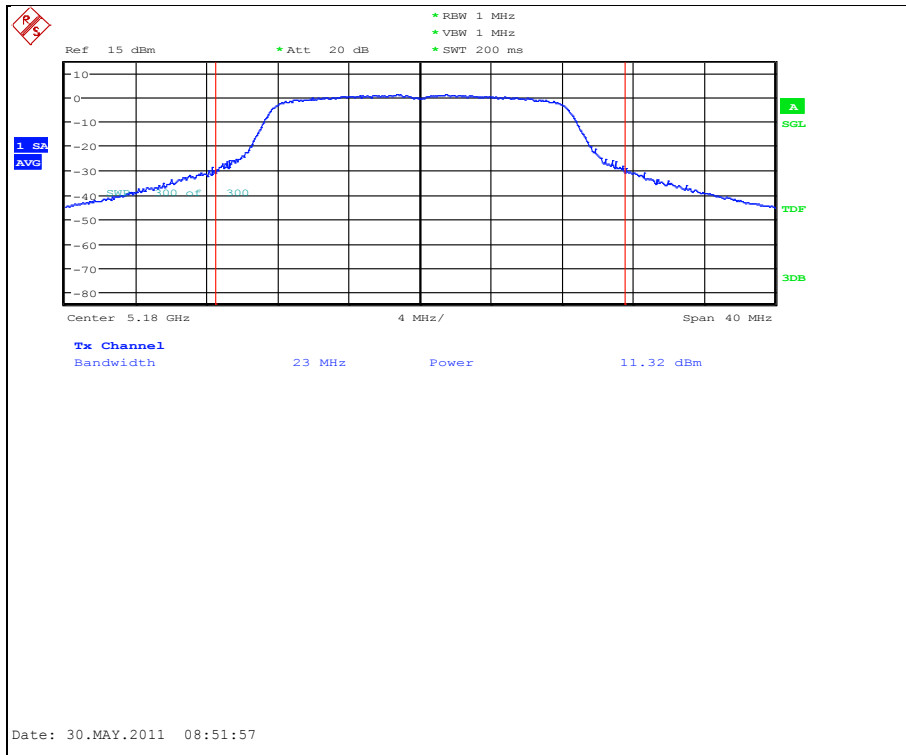
Channel 161 / 5805 MHz



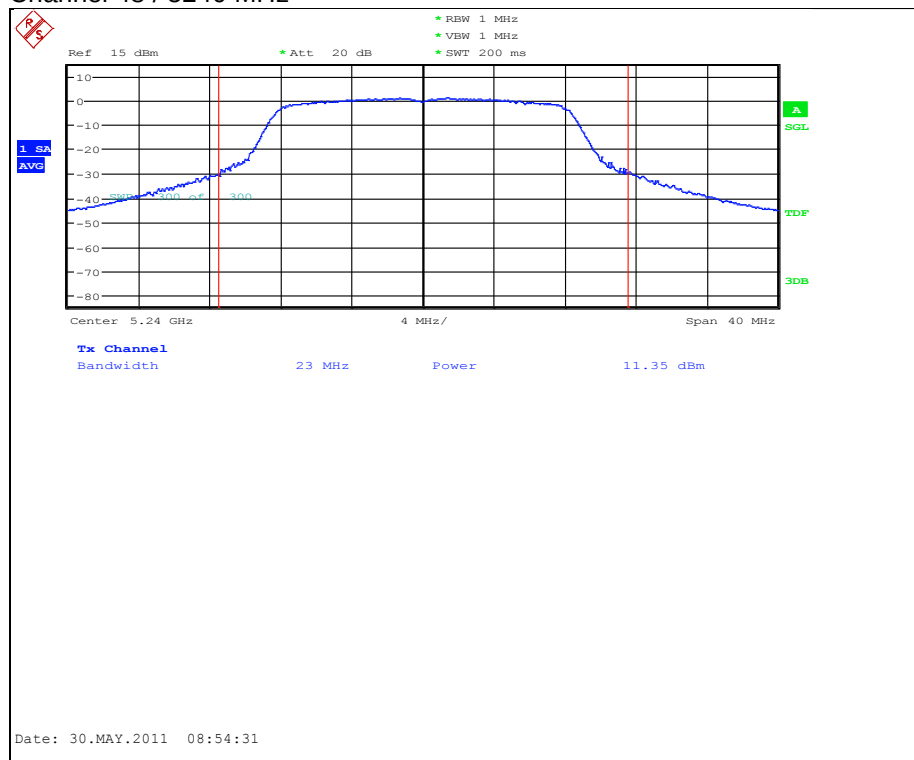
3.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel / f_c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	11.32	13.55	PASSED
48 / 5240	11.35	13.65	PASSED
52 / 5260	13.39	21.83	PASSED
64 / 5320	15.54	35.81	PASSED
100 / 5500	15.66	36.81	PASSED
136 / 5680	16.05	40.27	PASSED
149 / 5745	13.59	22.86	PASSED
161 / 5805	15.27	33.65	PASSED

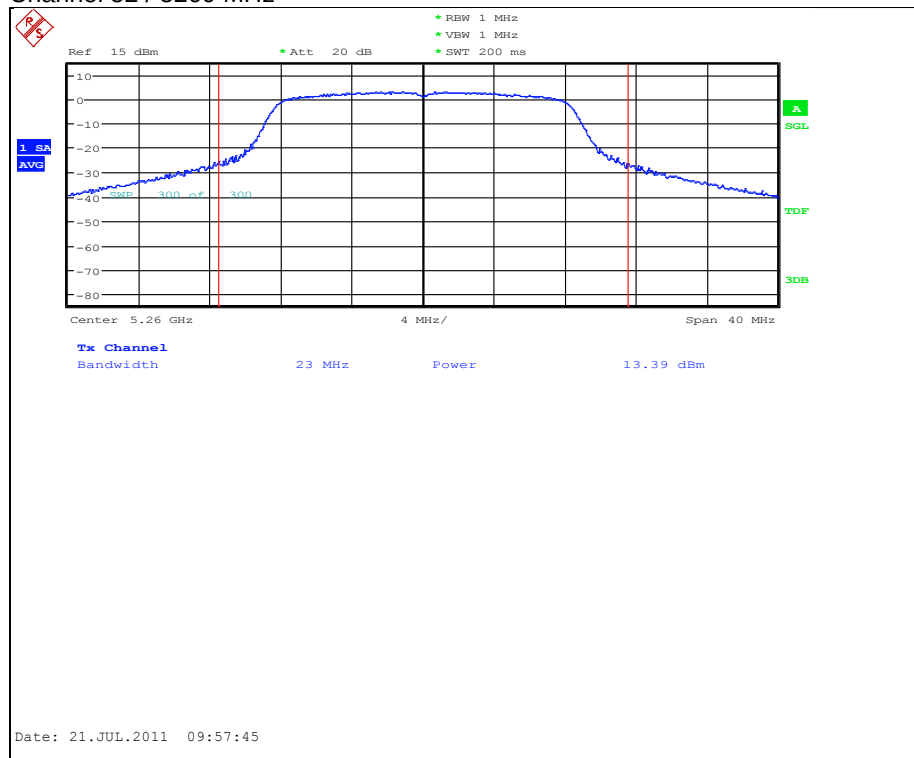
Channel 36 / 5180 MHz



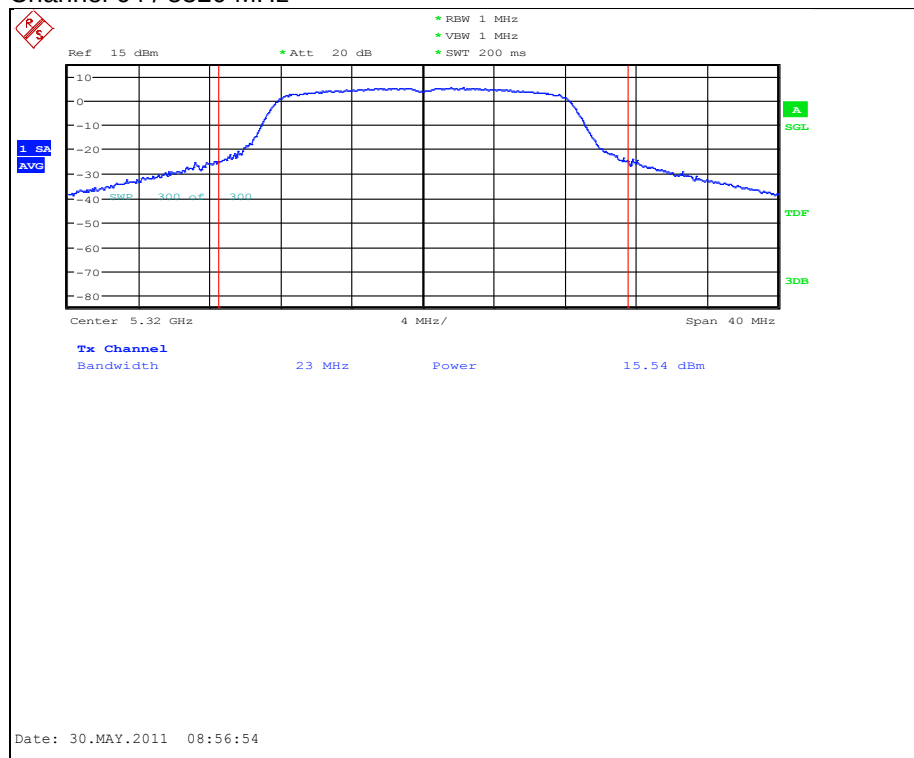
Channel 48 / 5240 MHz



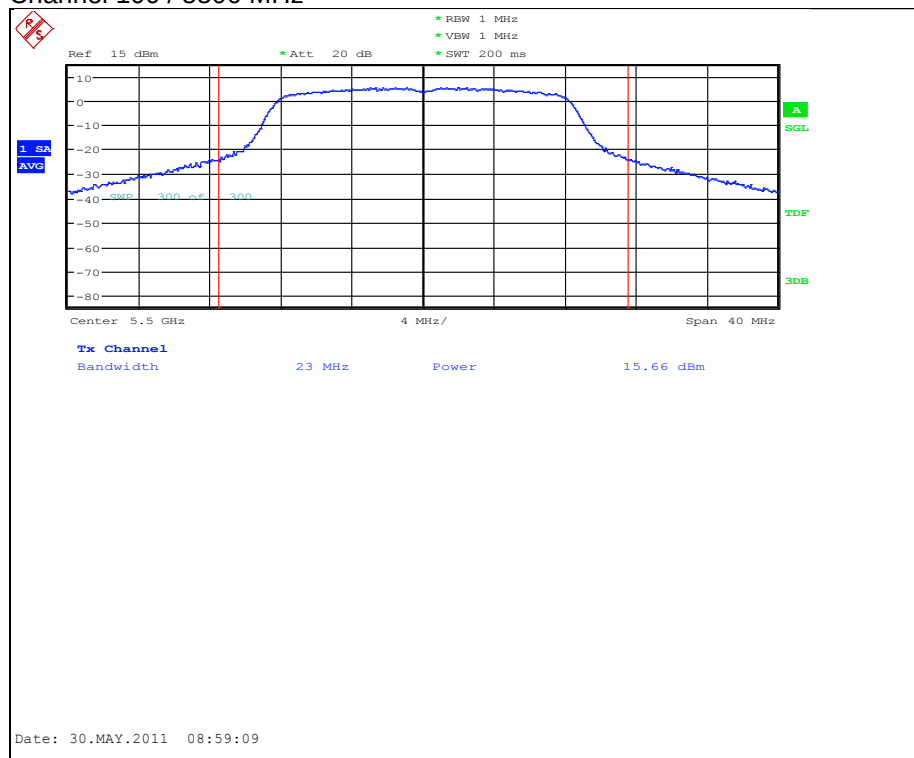
Channel 52 / 5260 MHz



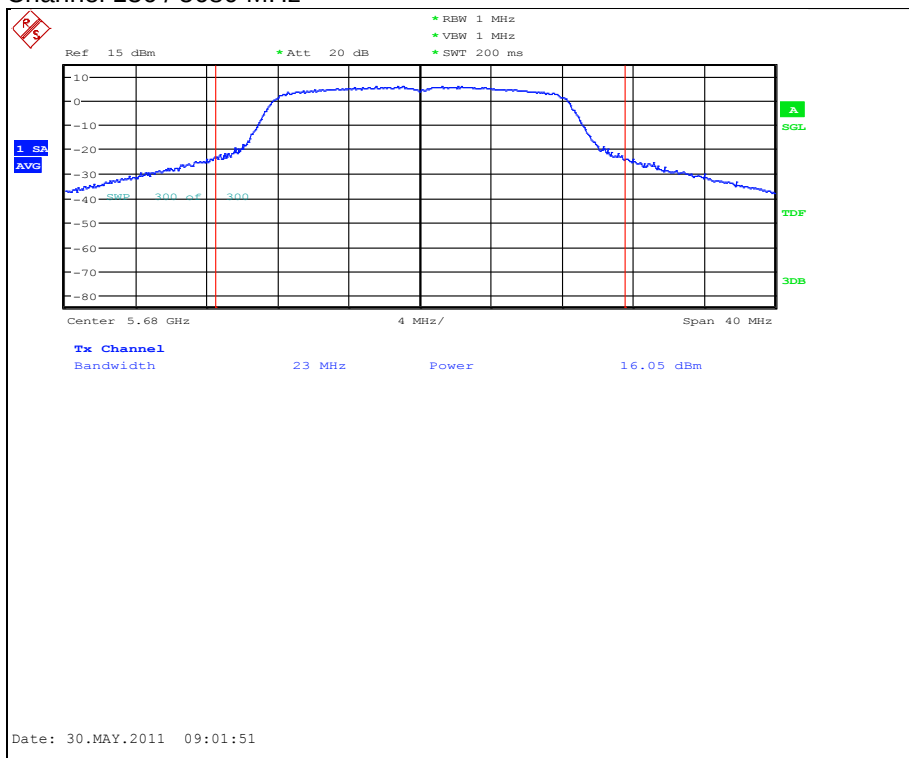
Channel 64 / 5320 MHz



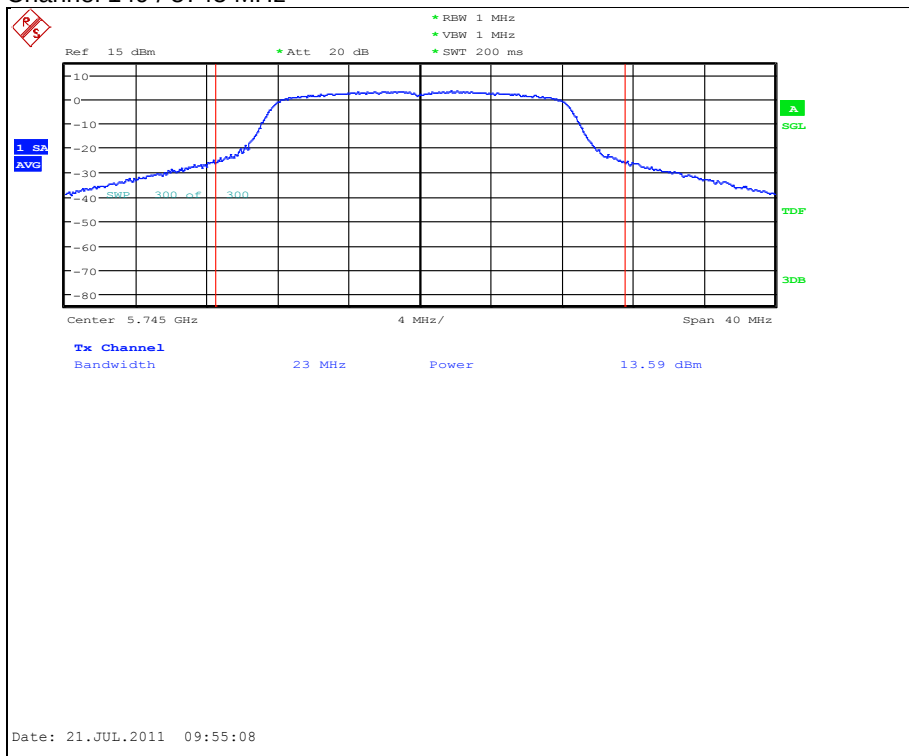
Channel 100 / 5500 MHz



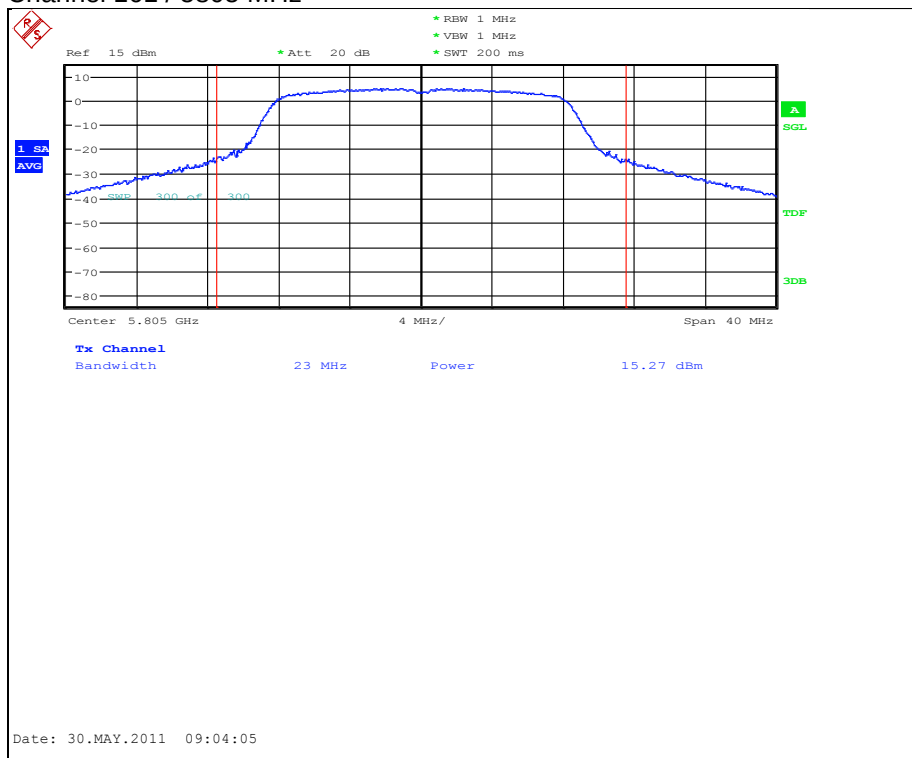
Channel 136 / 5680 MHz



Channel 149 / 5745 MHz



Channel 161 / 5805 MHz



4. Peak excursion (FCC §15.407(a) (6), RSS-210 A9.2)

EUT with DUT number	RM-696 DUT 42578
Accessories with DUT numbers	BV-5JW DUT-
Operation Voltage [V] / [Hz]	Nominal
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22-23 / 48-53 / 98.9-99.7
Date of measurements	30-May and 21-Jul-2011
Measured by	Jari Jantunen

4.1. Test method and limit

The measurement is made according to Public Notice DA-02-2138A1 and IC standard RSS-210.

Limits for peak excursion measurements

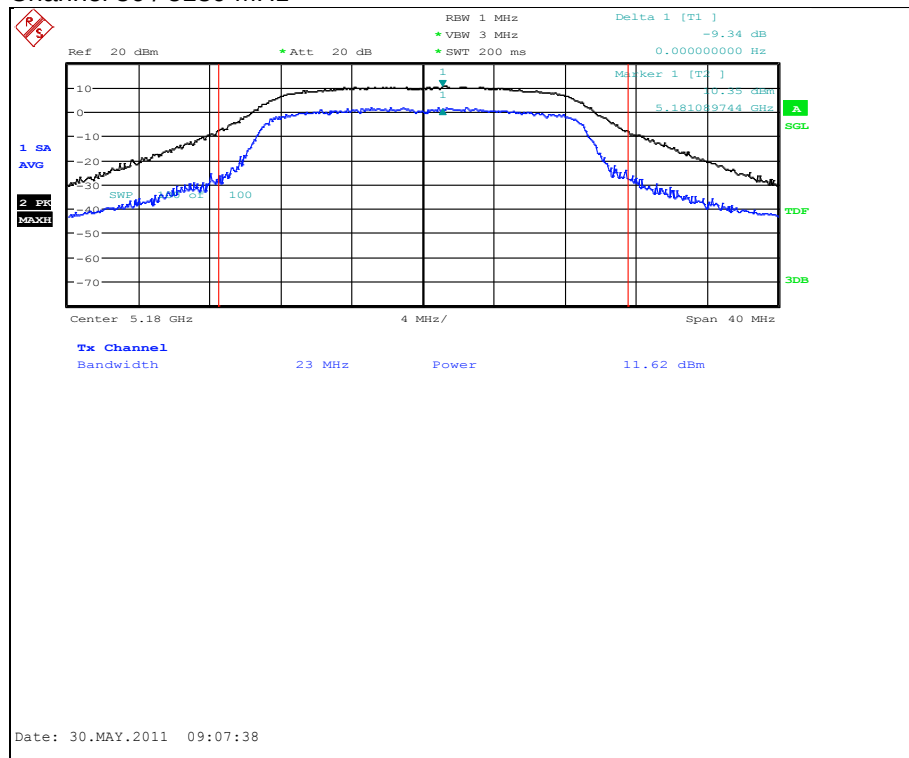
Limit [dB]
≤ 13

4.2. RLAN 5 GHz Test results

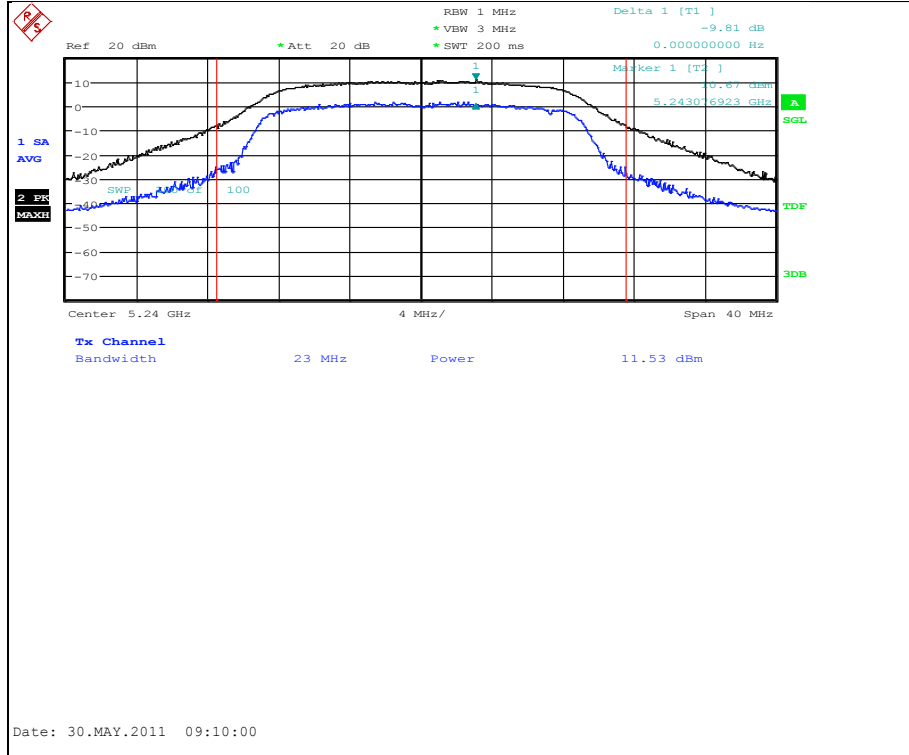
4.2.1 OFDM mode, BPSK modulation, n-6.5 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36 / 5180	9.34	PASSED
48 / 5240	9.81	PASSED
52 / 5260	9.51	PASSED
64 / 5320	9.50	PASSED
100 / 5500	9.11	PASSED
136 / 5680	10.13	PASSED
149 / 5745	9.32	PASSED
161 / 5805	9.70	PASSED

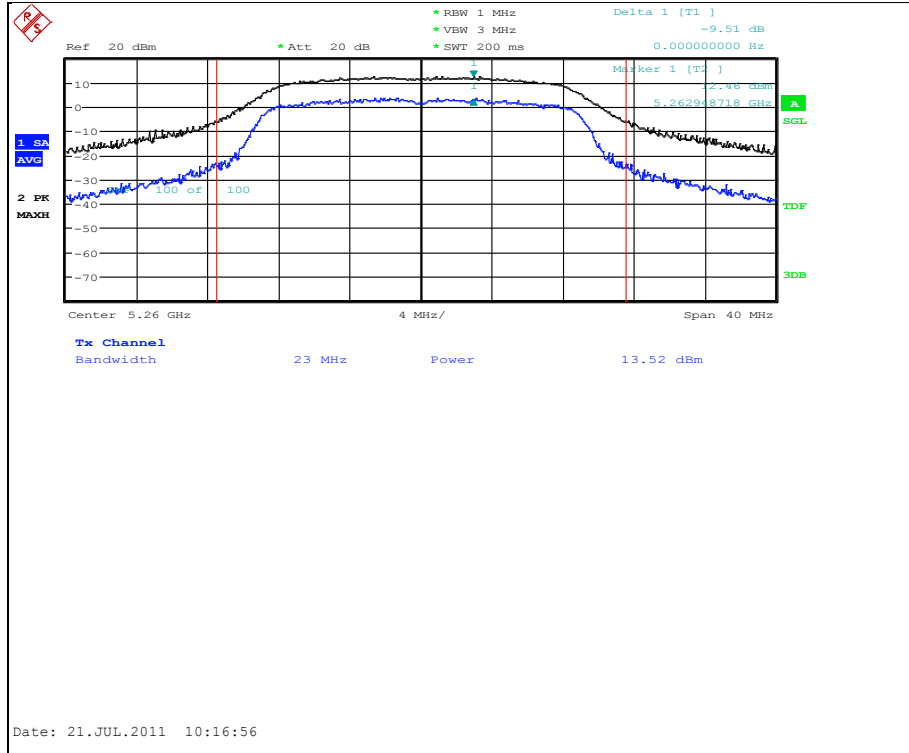
Channel 36 / 5180 MHz



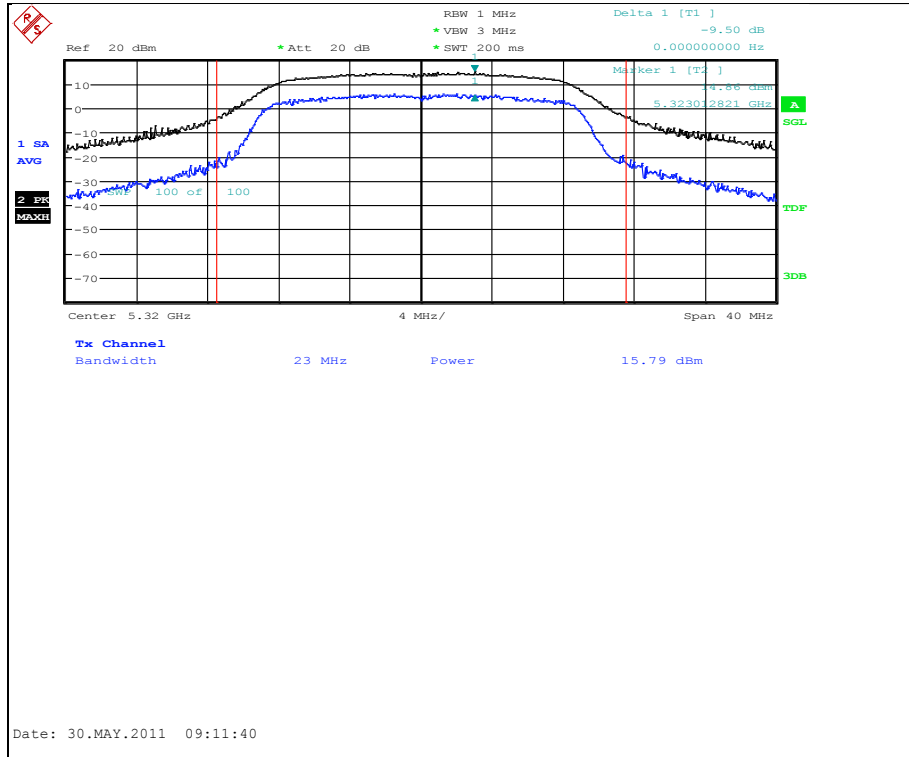
Channel 48 / 5240 MHz



Channel 52 / 5260 MHz



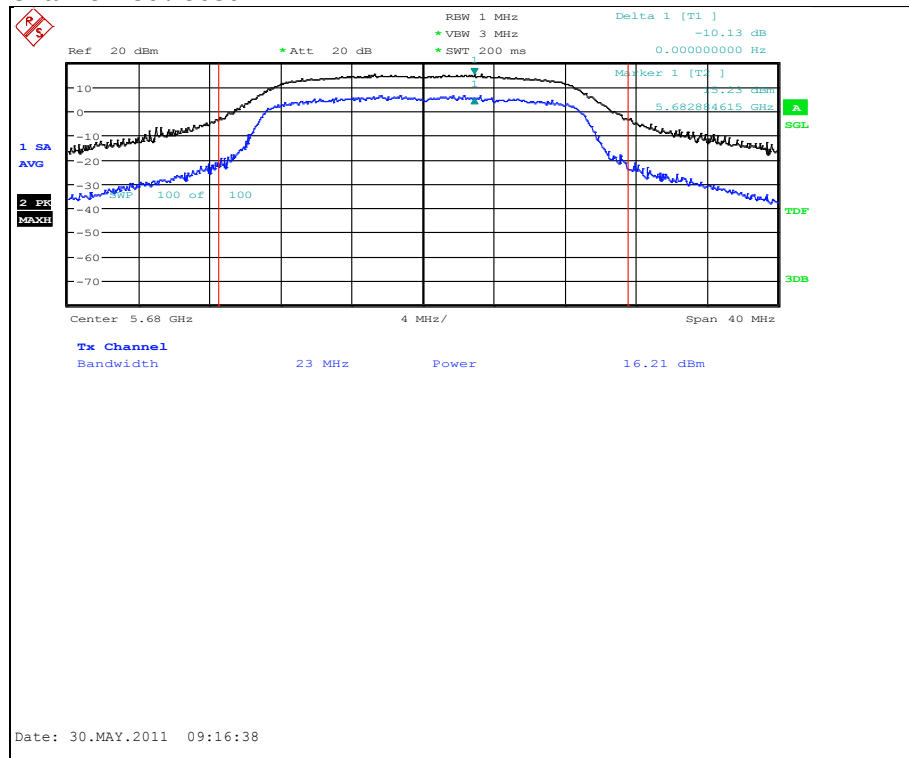
Channel 64 / 5320 MHz



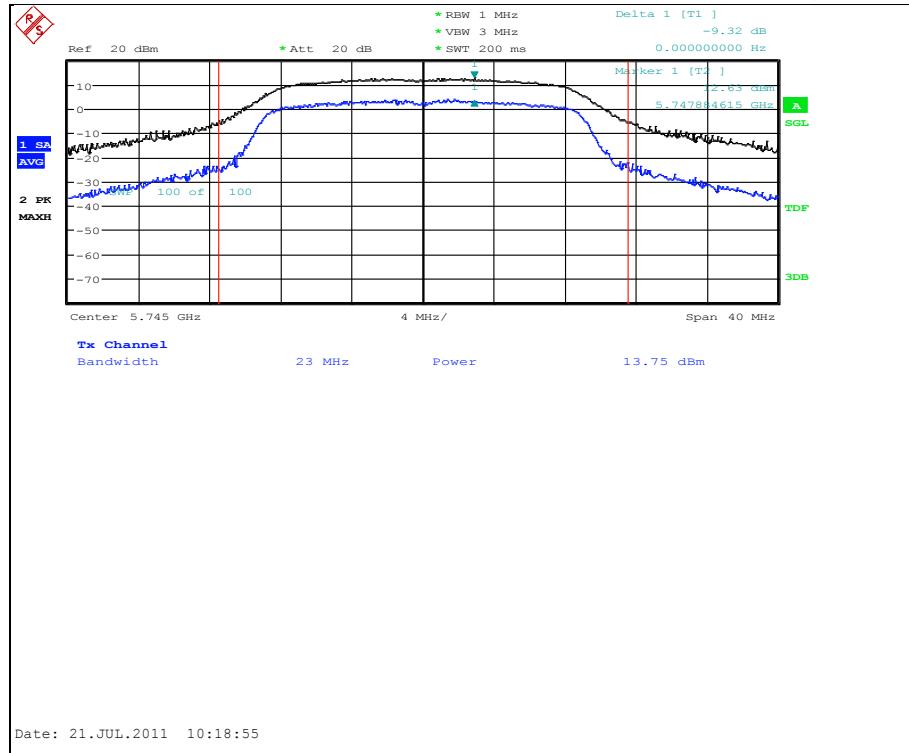
Channel 100 / 5500 MHz



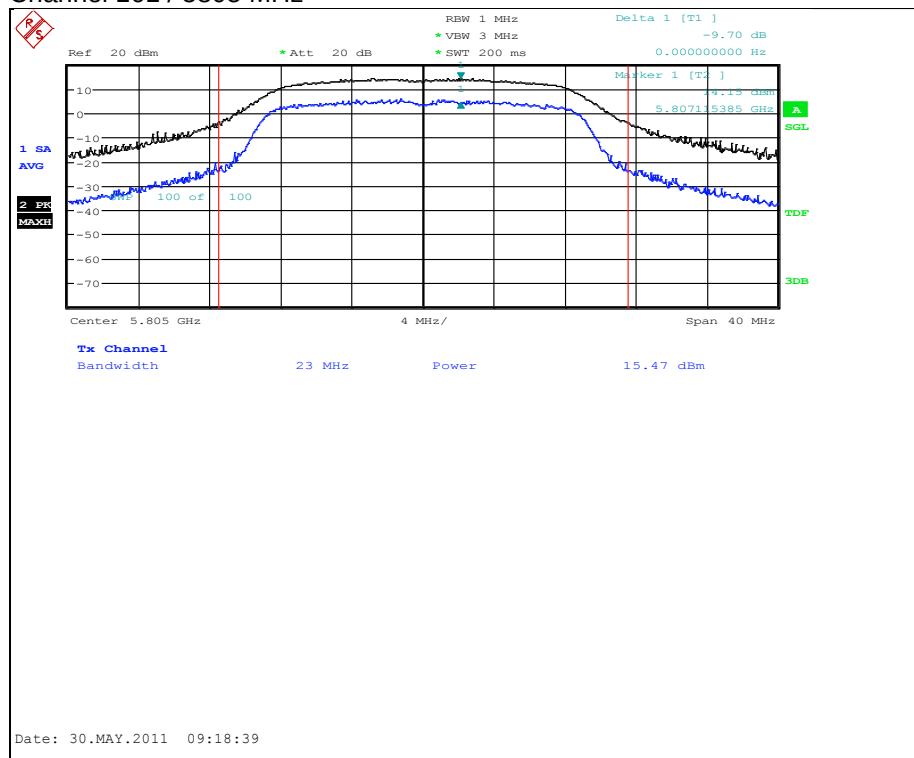
Channel 136 / 5680 MHz



Channel 149 / 5745 MHz



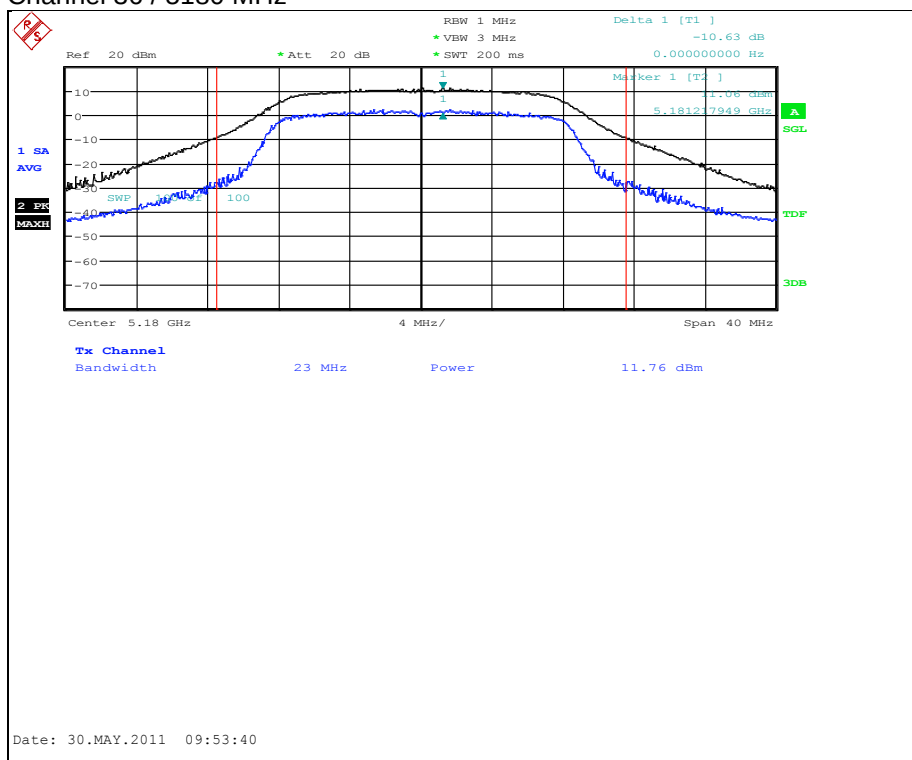
Channel 161 / 5805 MHz



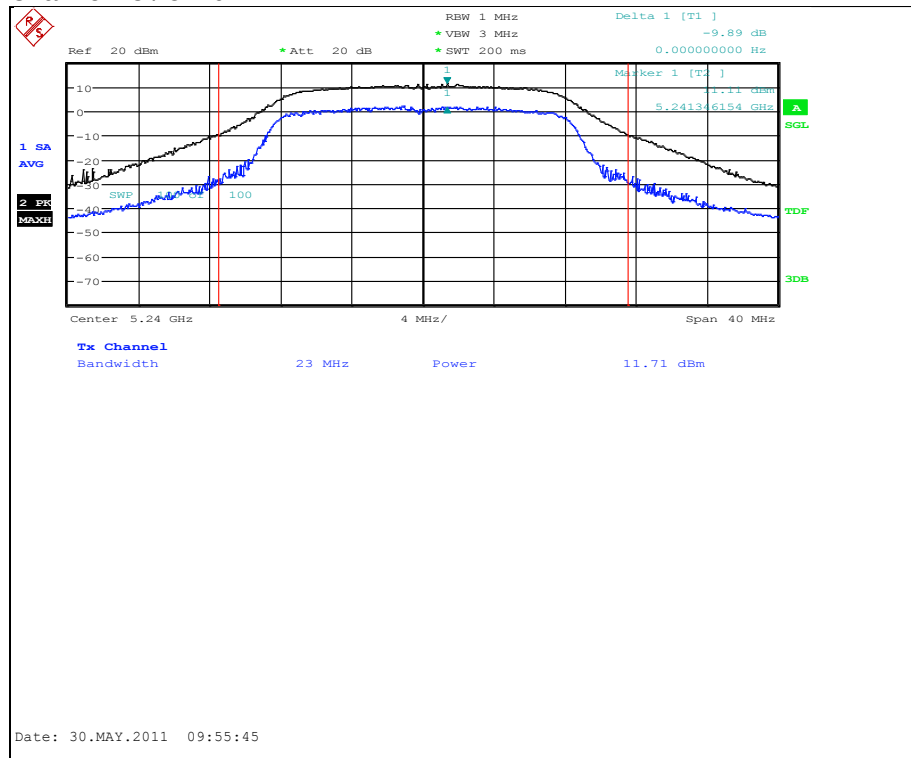
4.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel / f_c [MHz]	Peak excursion [dB]	Result
36 / 5180	10.63	PASSED
48 / 5240	9.89	PASSED
52 / 5260	9.95	PASSED
64 / 5320	10.08	PASSED
100 / 5500	11.63	PASSED
136 / 5680	9.89	PASSED
149 / 5745	9.20	PASSED
161 / 5805	9.80	PASSED

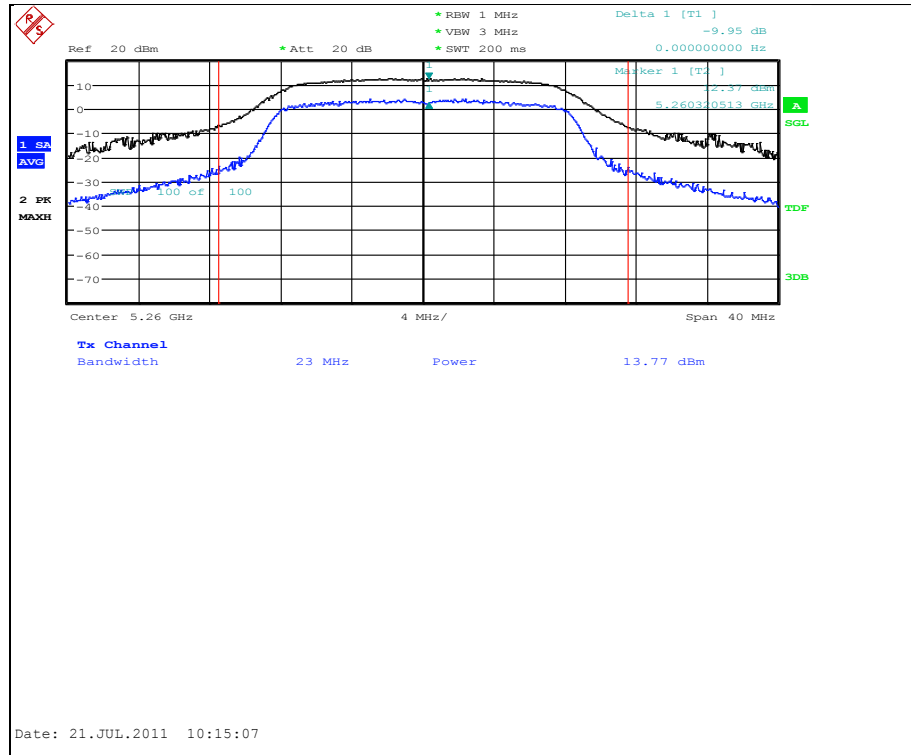
Channel 36 / 5180 MHz



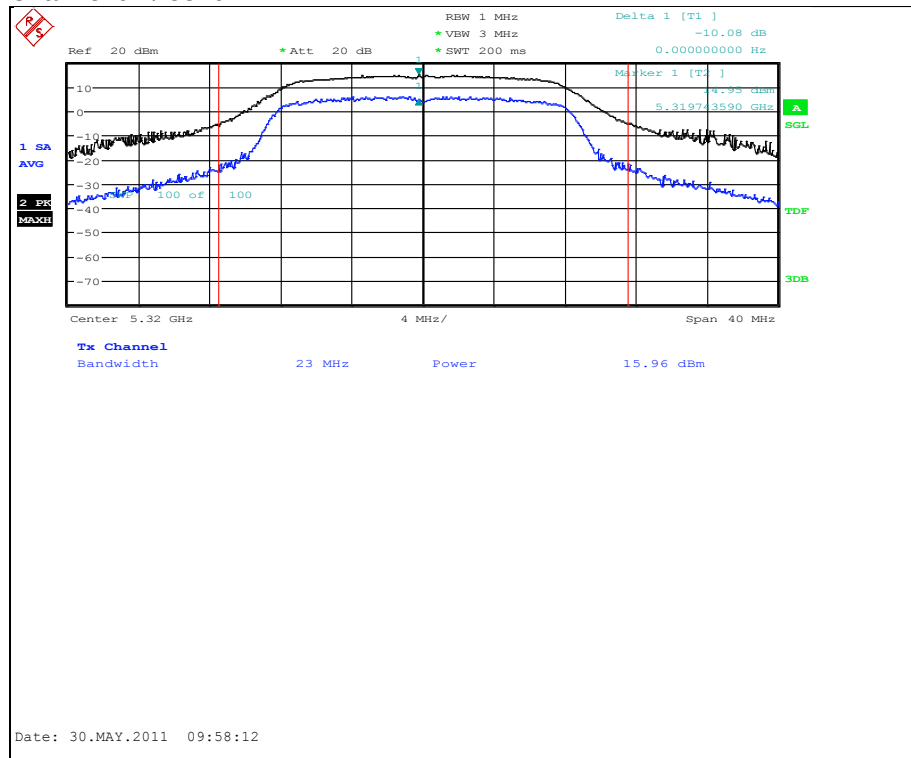
Channel 48 / 5240 MHz



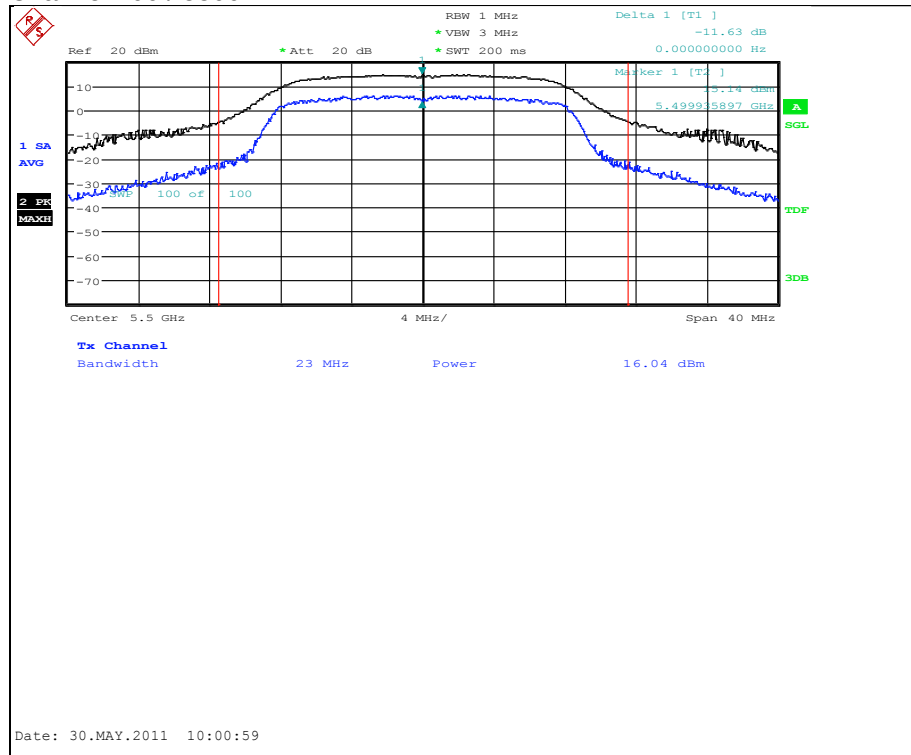
Channel 52 / 5260 MHz



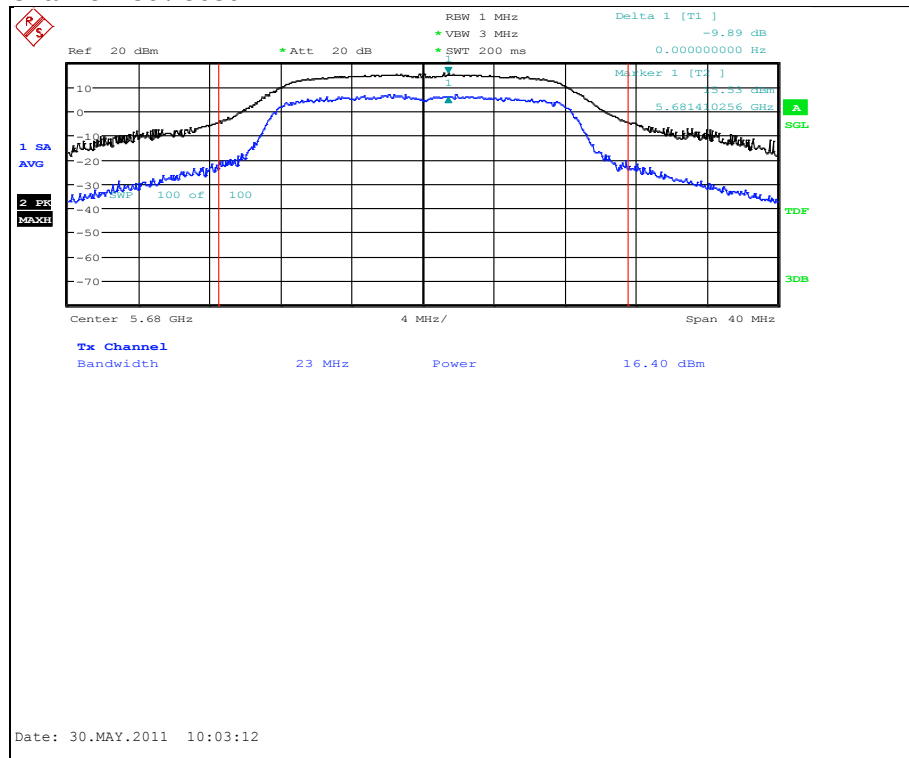
Channel 64 / 5320 MHz



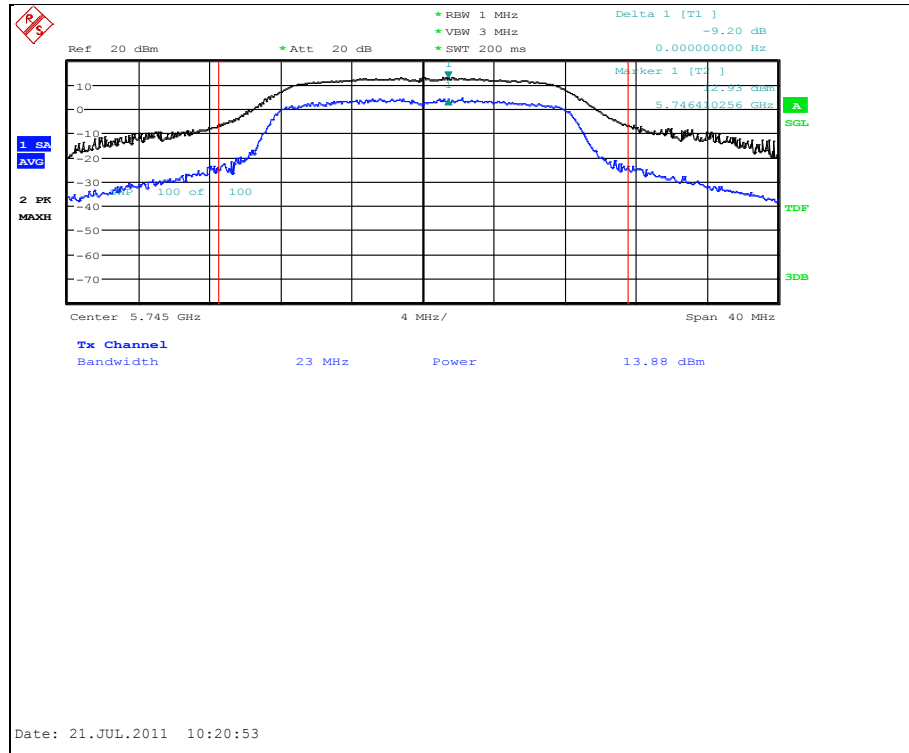
Channel 100 / 5500 MHz



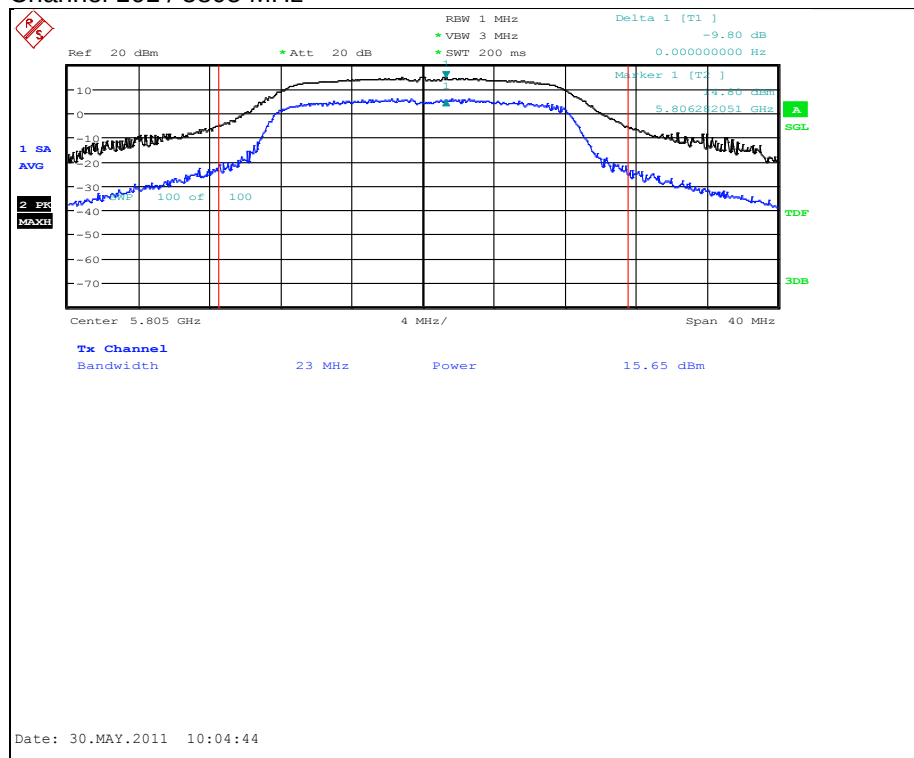
Channel 136 / 5680 MHz



Channel 149 / 5745 MHz



Channel 161 / 5805 MHz



5. AC powerline conducted emissions (FCC §15.407 (b) (6), RSS-210 A9.2)

EUT with DUT number	RM-696 DUT 42570
Accessories with DUT numbers	BV-5JW DUT- , AC-16E DUT 42572, CA-185CD DUT 42575, WH-901 DUT 42576
Operation Voltage [V] / [Hz]	115 / 60
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	20 / 50 / 98.8
Date of measurements	15-Jun-2011
Measured by	Jari Jantunen

5.1. Test method and limit

The measurement is made as follows:

The EUT is placed on a wooden table 80 cm above the reference groundplane.

The EUT is connected via LISN to a test power supply.

The measurement results are obtained as described below:

$$U [dB\mu V] = U_{RX} + A_{TOT}$$

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable and pulse limiter attenuations.

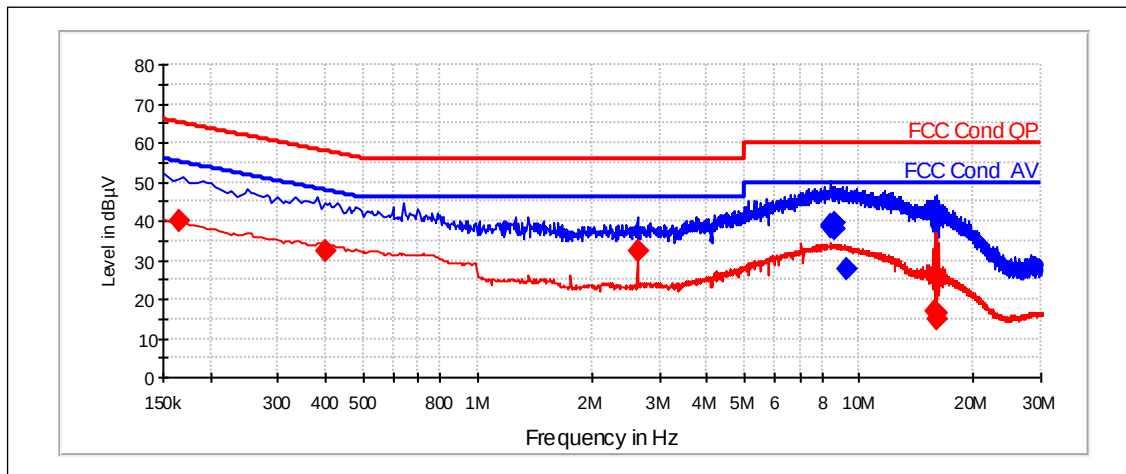
CISPR 22 Class B limits

Frequency range [MHz]	Quasi peak limit [dBμV]	Average limit [dBμV]
0.15 - 0.5	66 - 56	56 - 46
0.5 - 5	56	46
5 - 30	60	50

5.2. RLAN 5 GHz Test results

5.2.1 OFDM mode, BPSK modulation, n-6.5 Mbps data rate

Channel 36 / 5180 MHz



Quasi peak

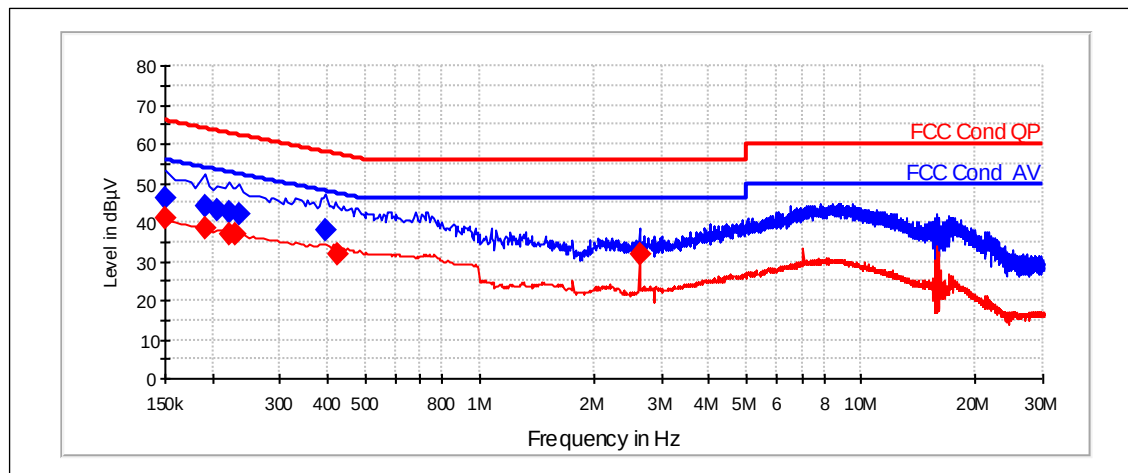
Frequency [MHz]	Level [dBμV]	IF-BW[kHz]	Line	Margin	Result
8.415	38.28	10	L1	21.7	PASSED
8.43	39.21	10	L1	20.8	PASSED
8.52	38.41	10	L1	21.6	PASSED
8.61	39.3	10	L1	20.7	PASSED
8.66	38.15	10	L1	21.8	PASSED
9.3	27.45	10	L1	32.6	PASSED

Average

Frequency [MHz]	Level [dBμV]	IF-BW[kHz]	Line	Margin	Result
0.165	39.75	10	N	15.41	PASSED
0.4	32.39	10	L1	15.45	PASSED
2.625	32.37	10	L1	13.6	PASSED
15.795	16.68	10	L1	33.3	PASSED
15.9	16.6	10	L1	33.4	PASSED
16.005	14.64	10	N	35.4	PASSED

5.2.2 OFDM mode, BPSK modulation, n-6.5 Mbps data rate

Channel 100 / 5500 MHz



Quasi peak

Frequency [MHz]	Level [dBμV]	IF-BW[kHz]	Line	Margin	Result
0.15	45.9	10	N	20.1	PASSED
0.19	44.1	10	N	19.94	PASSED
0.205	43.07	10	N	20.31	PASSED
0.22	42.61	10	N	20.22	PASSED
0.235	42.12	10	L1	20.17	PASSED
0.395	37.8	10	N	20.16	PASSED

Average

Frequency [MHz]	Level [dBμV]	IF-BW[kHz]	Line	Margin	Result
0.15	41.26	10	L1	14.7	PASSED
0.19	38.68	10	N	15.34	PASSED
0.22	37.12	10	N	15.72	PASSED
0.23	36.75	10	N	15.65	PASSED
0.425	31.83	10	N	15.55	PASSED
2.625	32	10	N	14	PASSED

6. 26 dB bandwidth

EUT with DUT number	RM-696 DUT 42578
Accessories with DUT numbers	BV-5JW DUT-
Operation Voltage [V] / [Hz]	Nominal
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22-23 / 48-53 / 98.9-99.7
Date of measurements	30-May and 21-Jul-2011
Measured by	Jari Jantunen

6.1. Test method and limit

The measurement is made according to Public Notice DA-02-2138A1 and IC standard RSS-210.

Limits for 26 dB bandwidth measurements

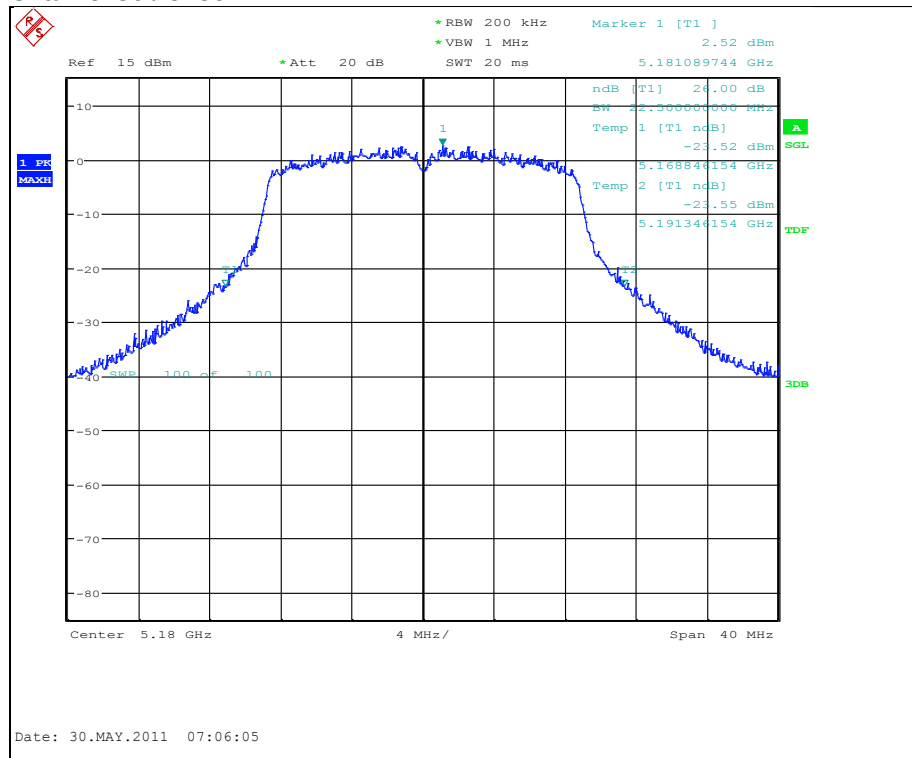
Limit [kHz]
No limit

6.2. RLAN 5 GHz test results

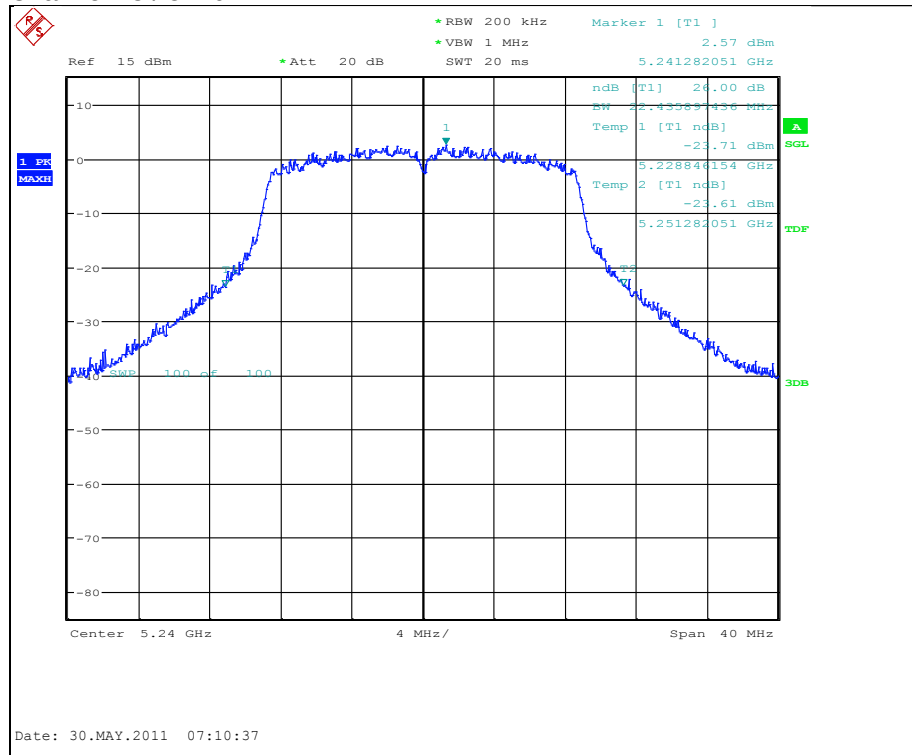
6.2.1 OFDM mode, BPSK modulation, n-6.5 Mbps data rate

Channel / f_c [MHz]	6 dB bandwidth [kHz]	Result
36 / 5180	22500	PASSED
48 / 5240	22436	PASSED
52 / 5260	23141	PASSED
64 / 5320	22692	PASSED
100 / 5500	23718	PASSED
136 / 5680	23141	PASSED
149 / 5745	23526	PASSED
161 / 5805	23205	PASSED

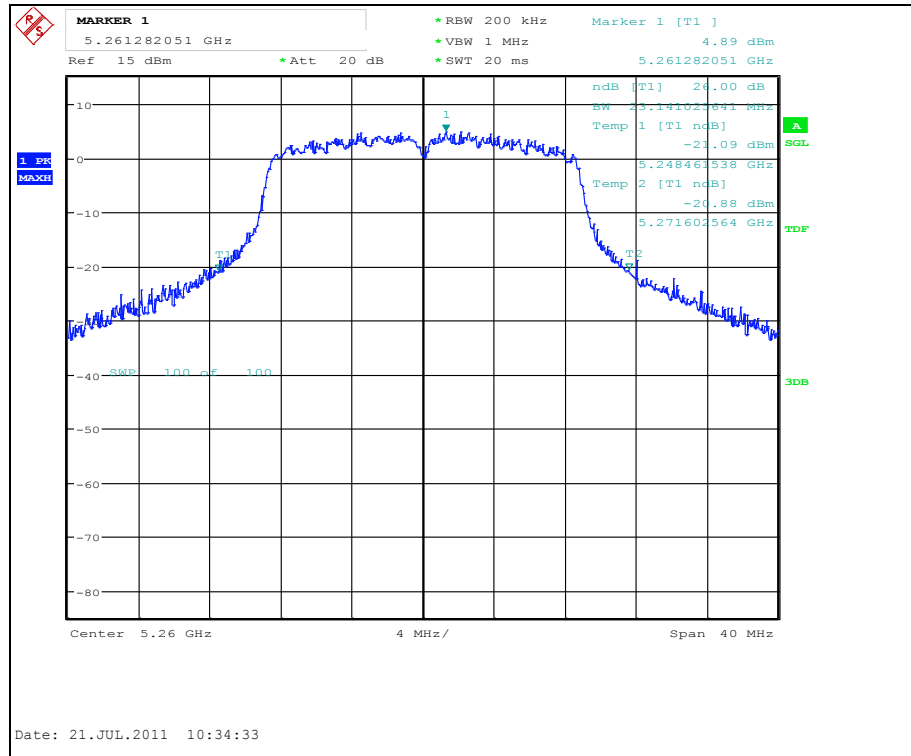
Channel 36 / 5180 MHz



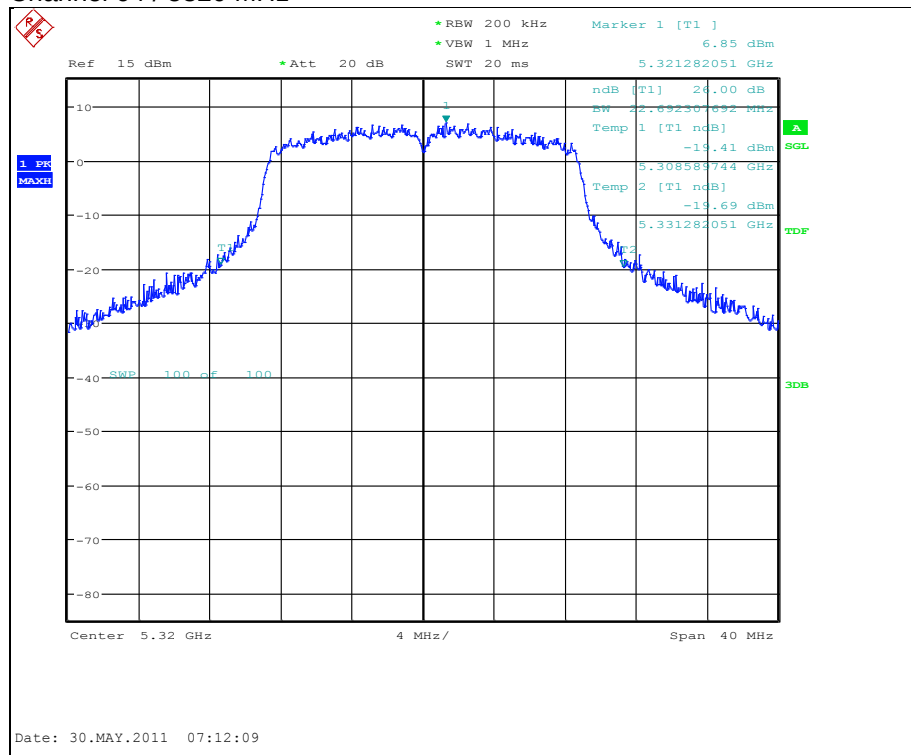
Channel 48 / 5240 MHz



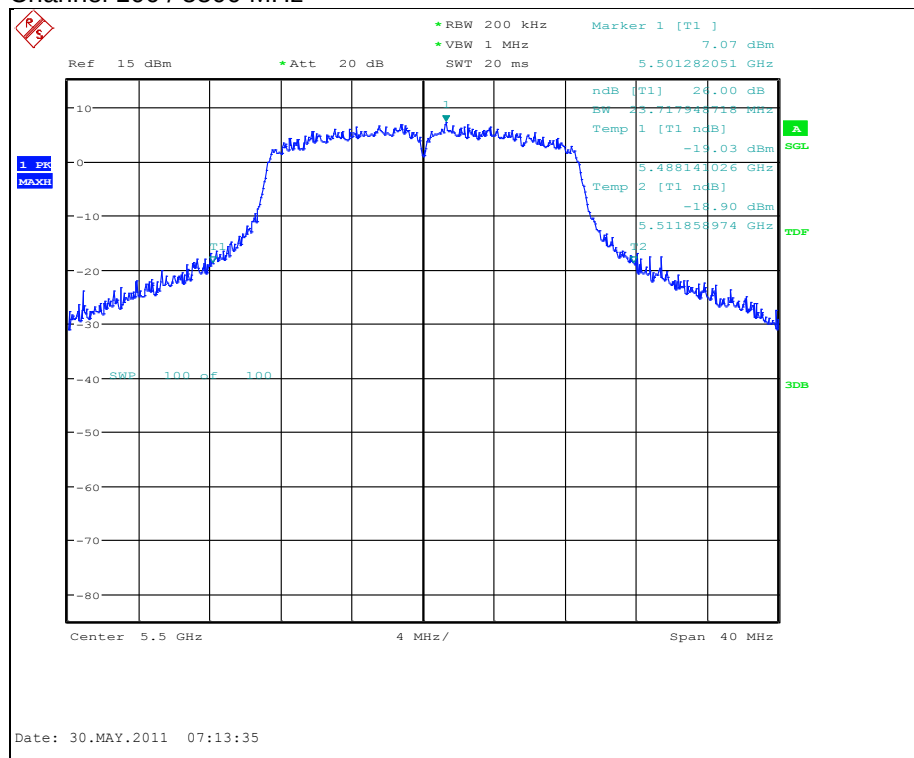
Channel 52 / 5260 MHz



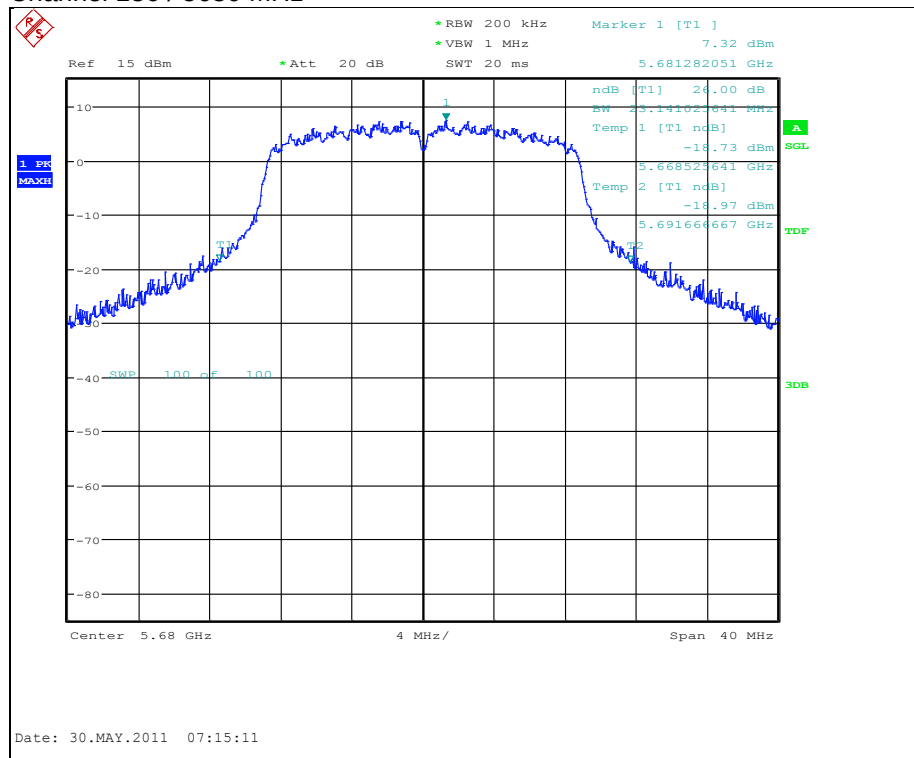
Channel 64 / 5320 MHz



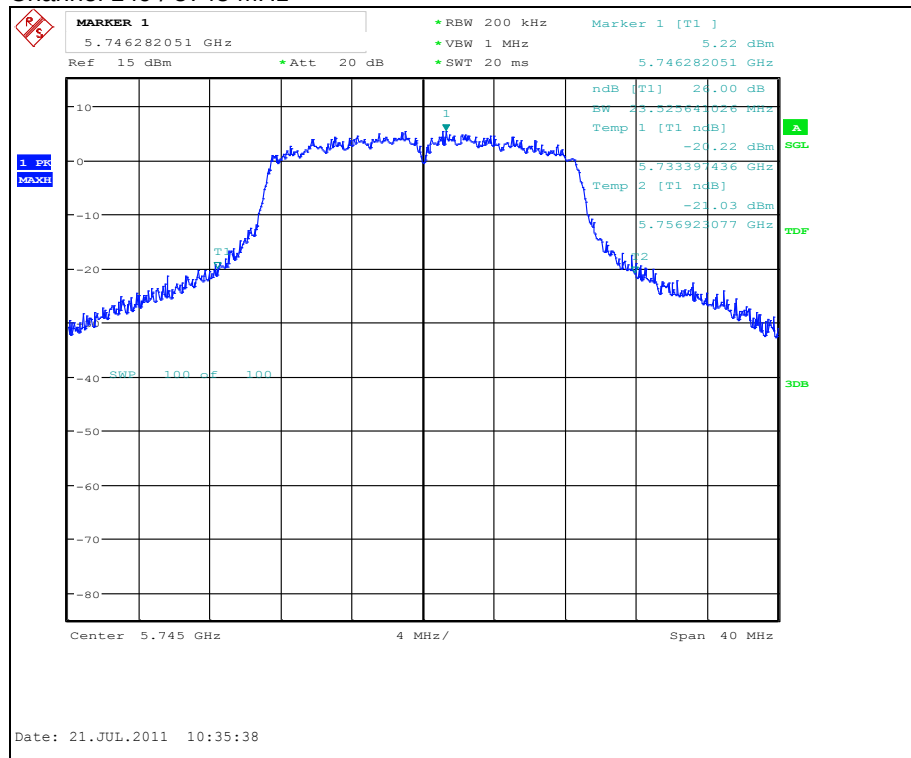
Channel 100 / 5500 MHz



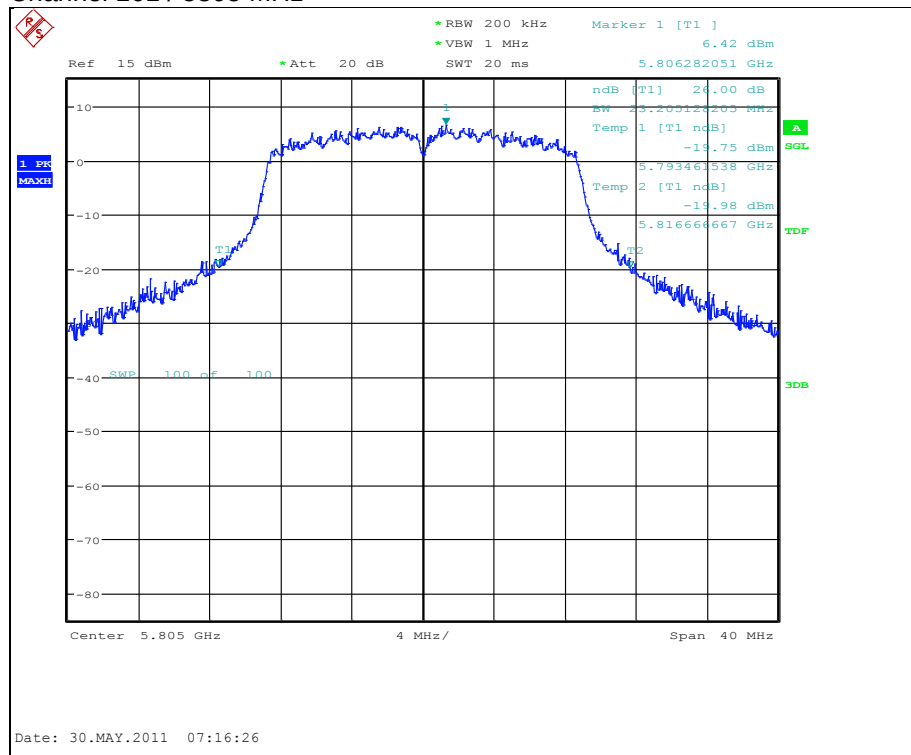
Channel 136 / 5680 MHz



Channel 149 / 5745 MHz



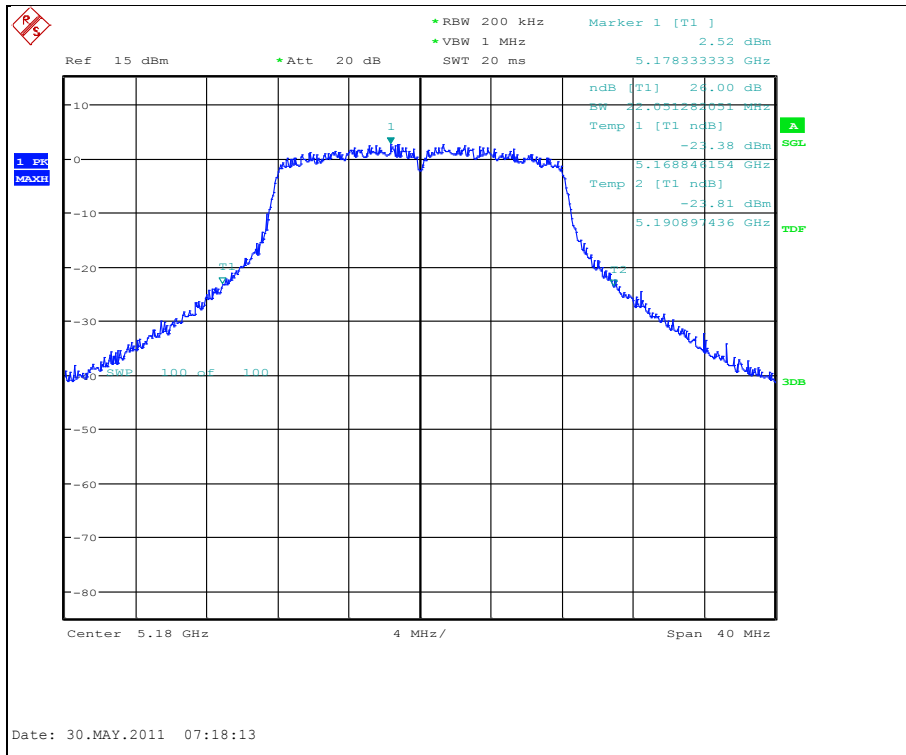
Channel 161 / 5805 MHz



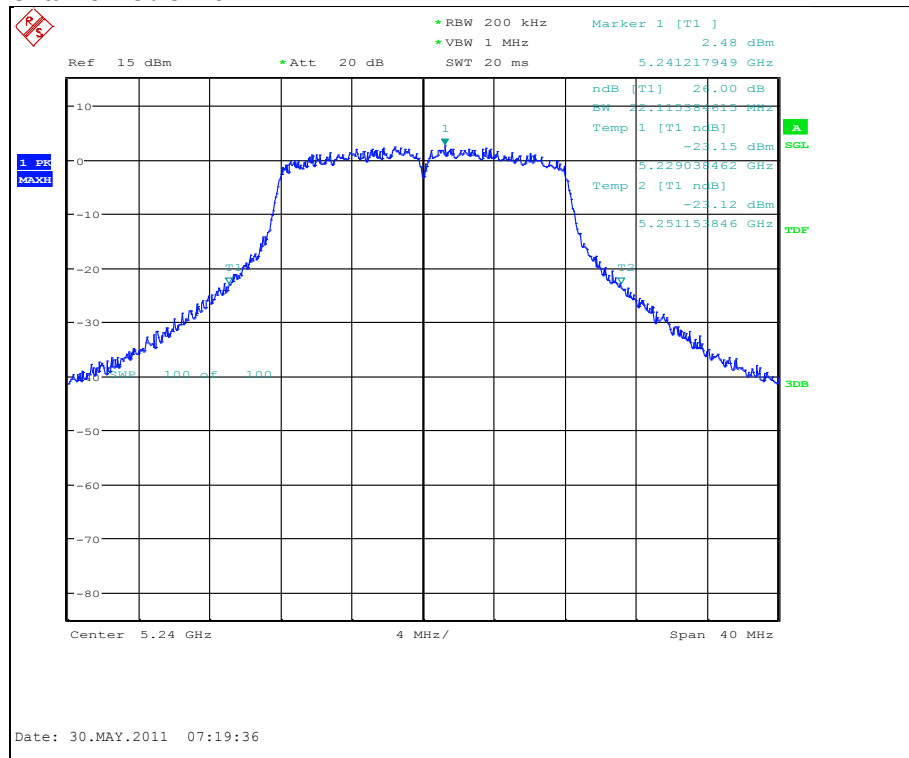
6.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel / f_c [MHz]	6 dB bandwidth [kHz]	Result
36 / 5180	22051	PASSED
48 / 5240	22115	PASSED
52 / 5260	23115	PASSED
64 / 5320	22244	PASSED
100 / 5500	22885	PASSED
136 / 5680	22756	PASSED
149 / 5745	22756	PASSED
161 / 5805	22436	PASSED

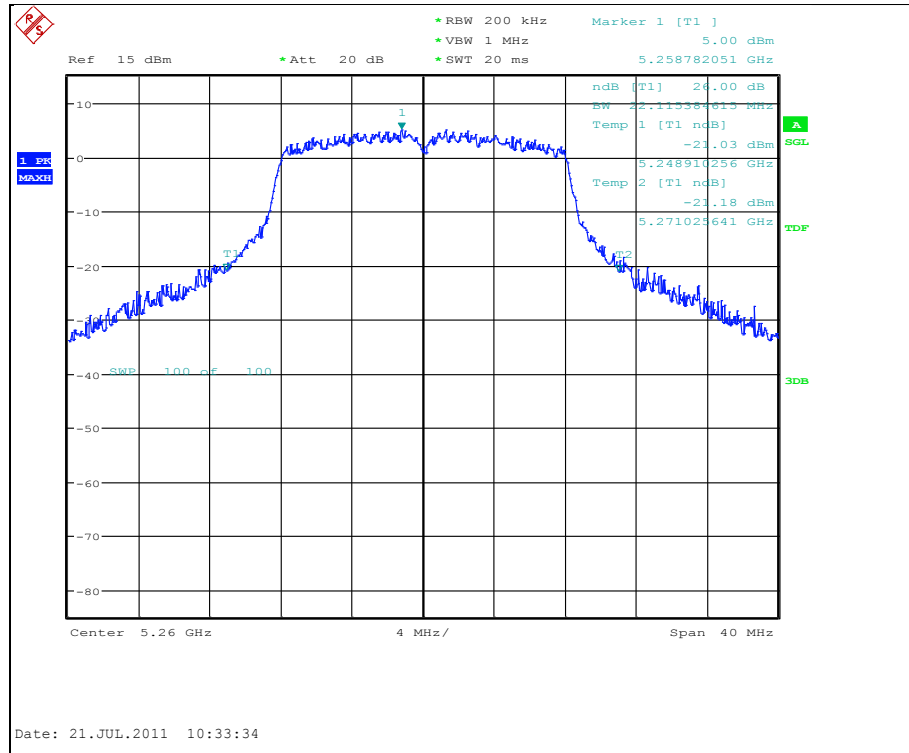
Channel 36 / 5180 MHz



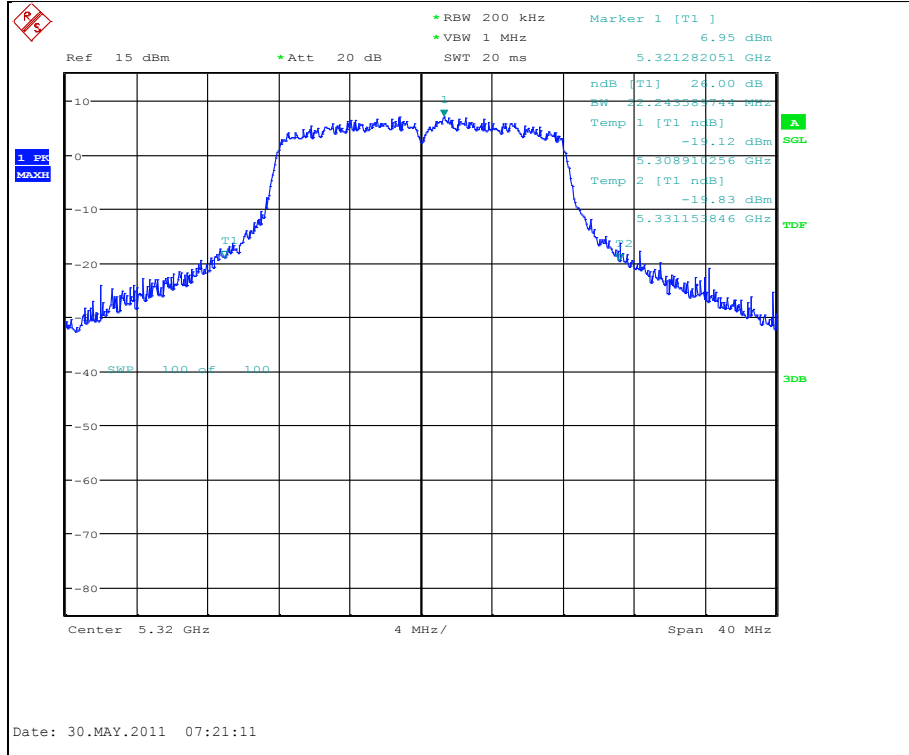
Channel 48 / 5240 MHz



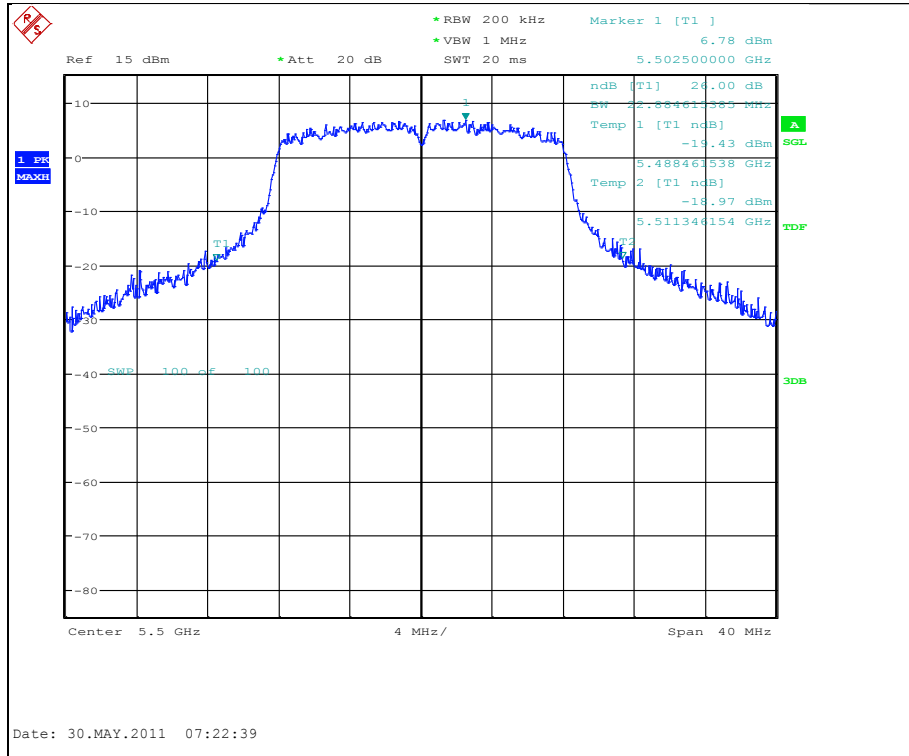
Channel 52 / 5260 MHz



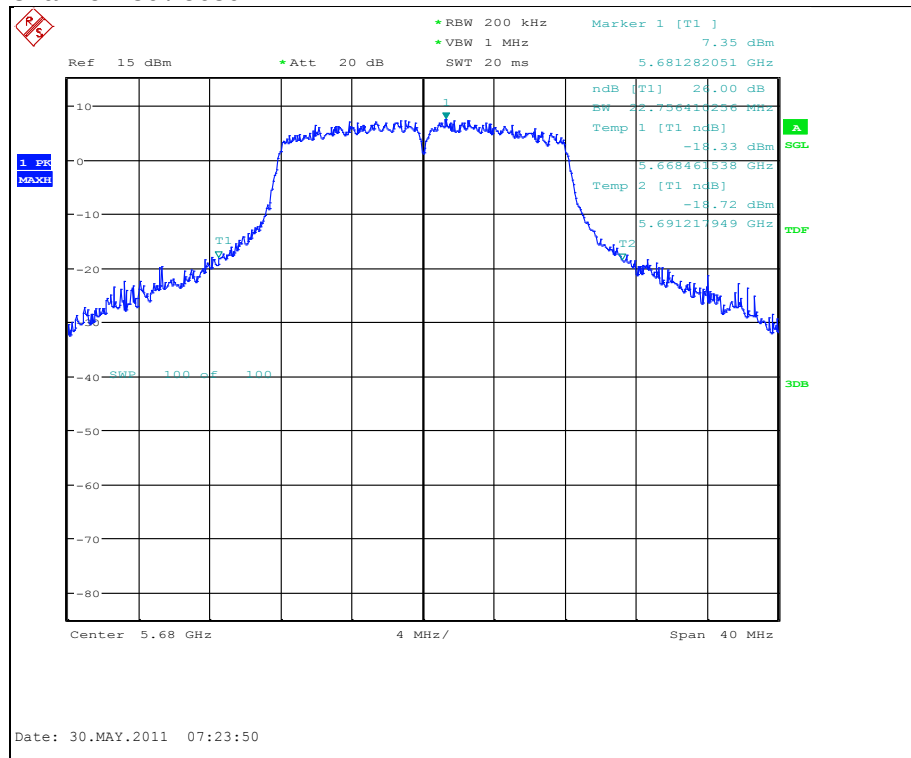
Channel 64 / 5320 MHz



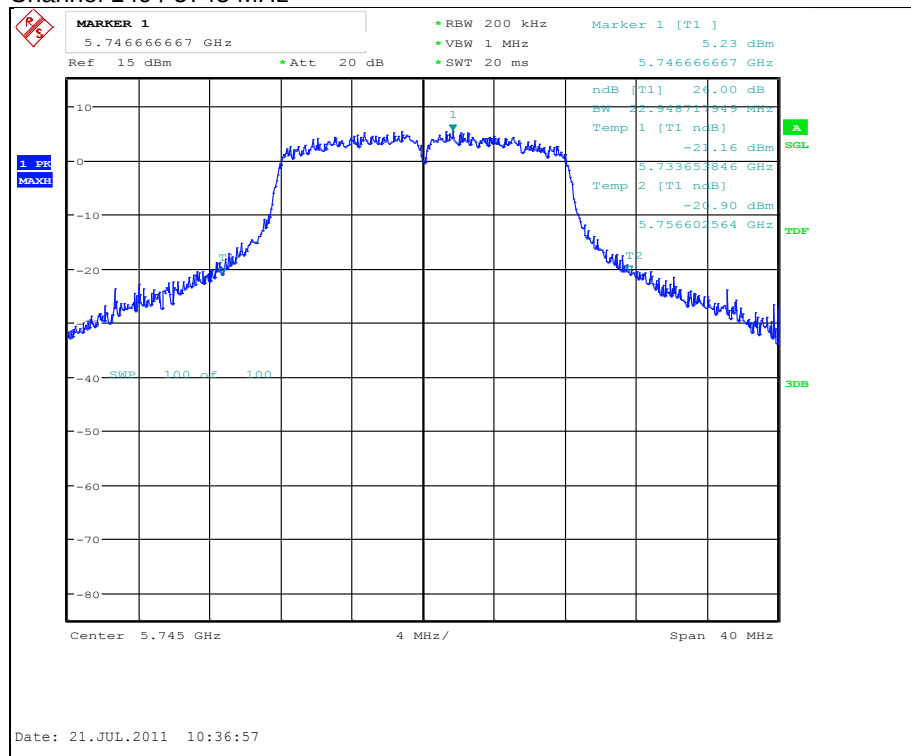
Channel 100 / 5500 MHz



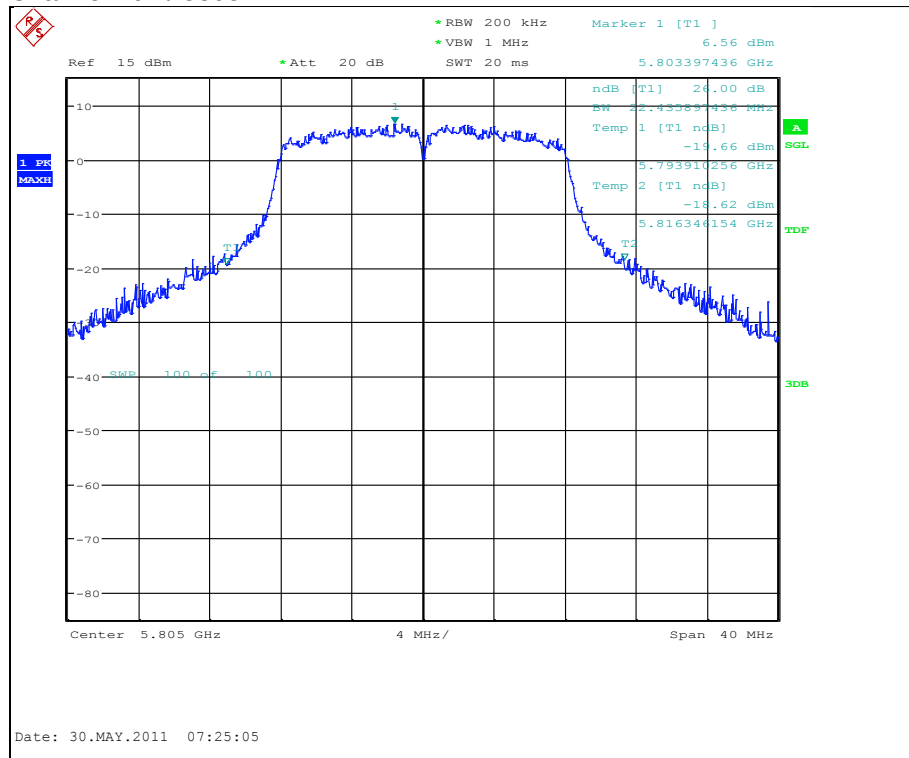
Channel 136 / 5680 MHz



Channel 149 / 5745 MHz



Channel 161 / 5805 MHz



7. Peak power spectral density (FCC §15.407(a), RSS-210 A9.2)

EUT with DUT number	RM-696 DUT 42578
Accessories with DUT numbers	BV-5JW DUT-
Operation Voltage [V] / [Hz]	Nominal
Result	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22-23 / 48-53 / 98.9-99.7
Date of measurements	30-May and 21-Jul-2011
Measured by	Jari Jantunen

7.1. Test method and limit

The measurement is made according to Public Notice DA-02-2138A1 and IC standard RSS-210.

Limits for power spectral density measurements

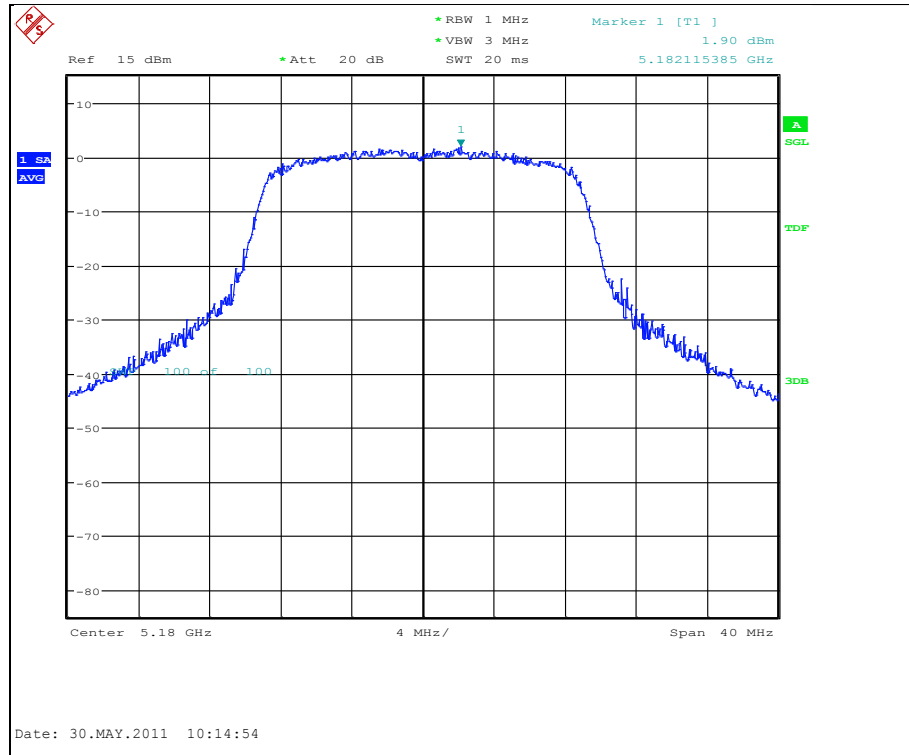
Frequency range [MHz]	Limit [dBm]
5150-5250	4
5250-5350	11
5470-5725	11
5725-5825	17

7.2. RLAN 5 GHz test results

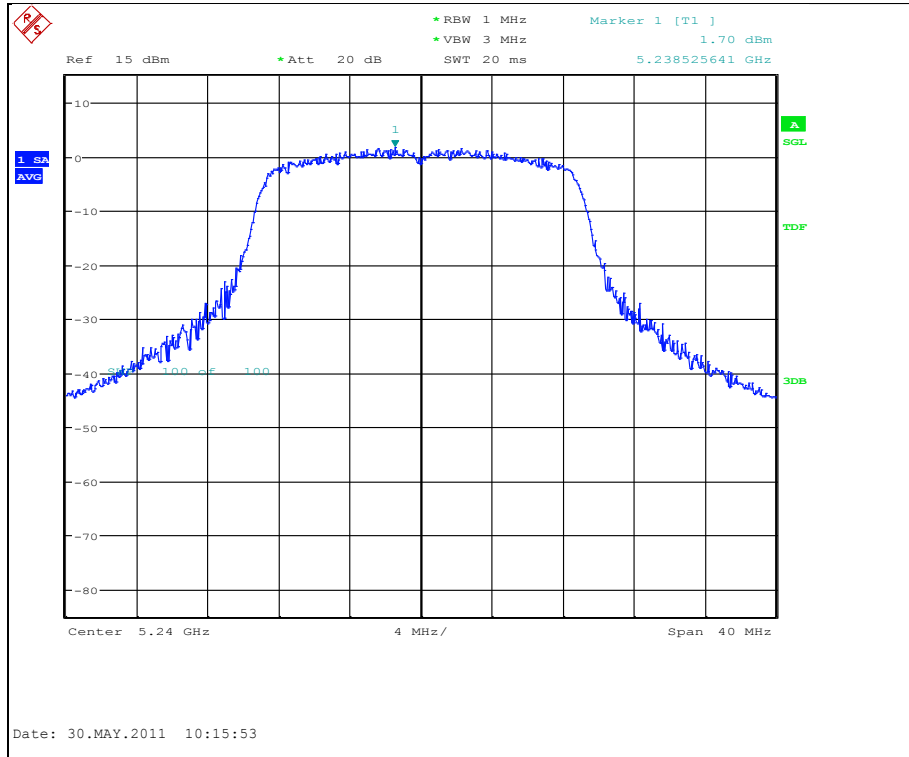
7.2.1 OFDM mode, BPSK modulation, n-6.5 Mbps data rate

Channel / f _c [MHz]	Peak power spectral density [dBm]	Result
36 / 5180	1.90	PASSED
48 / 5240	1.70	PASSED
52 / 5260	3.32	PASSED
64 / 5320	6.05	PASSED
100 / 5500	6.07	PASSED
136 / 5680	6.03	PASSED
149 / 5745	3.60	PASSED
161 / 5805	5.47	PASSED

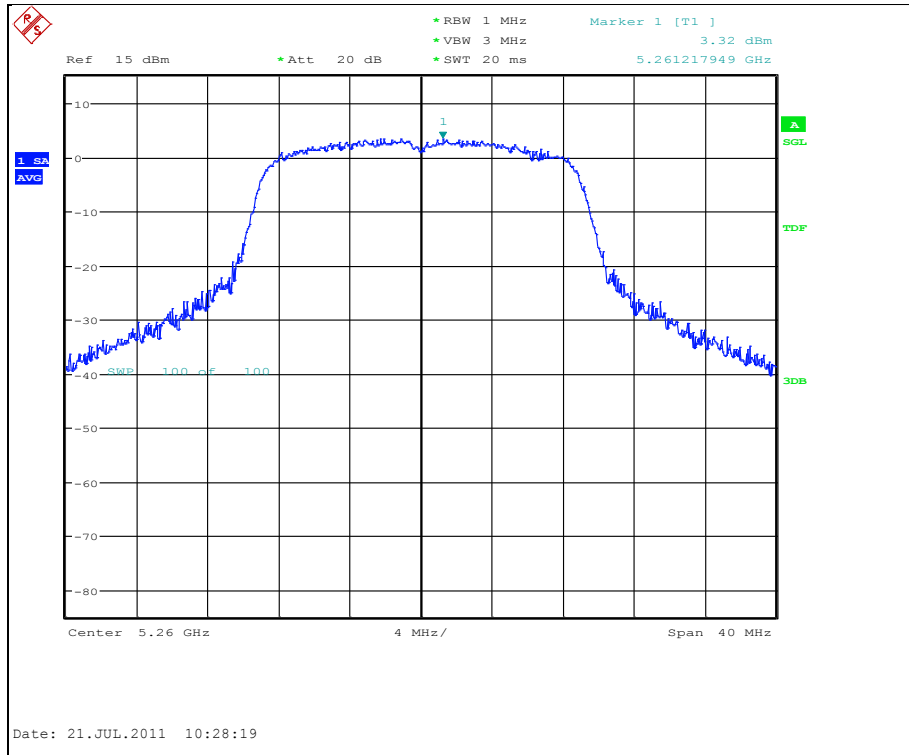
Channel 36 / 5180 MHz



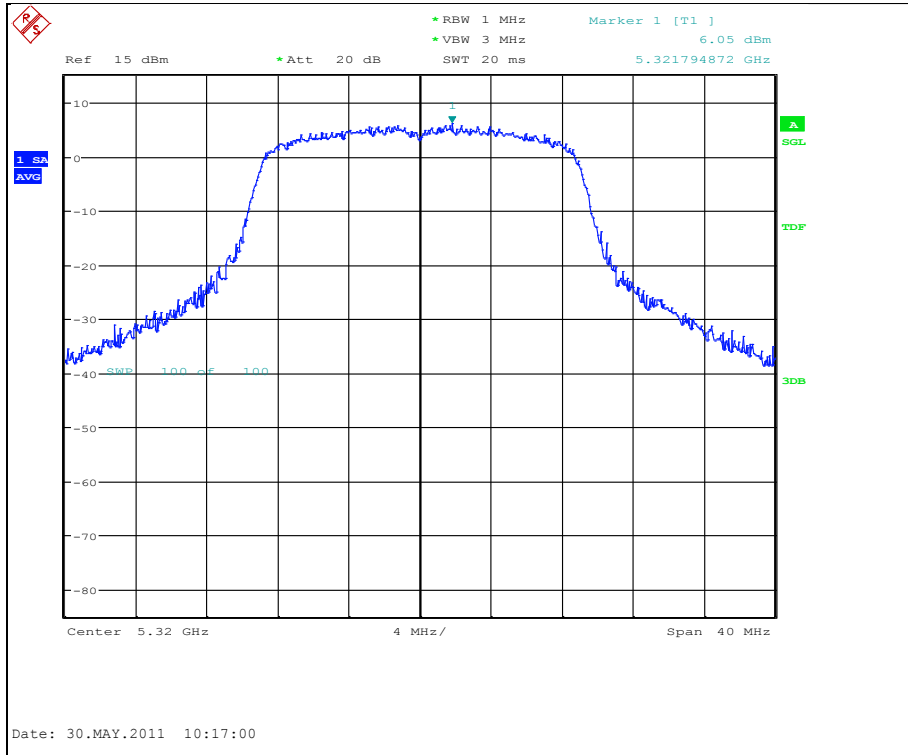
Channel 48 / 5240 MHz



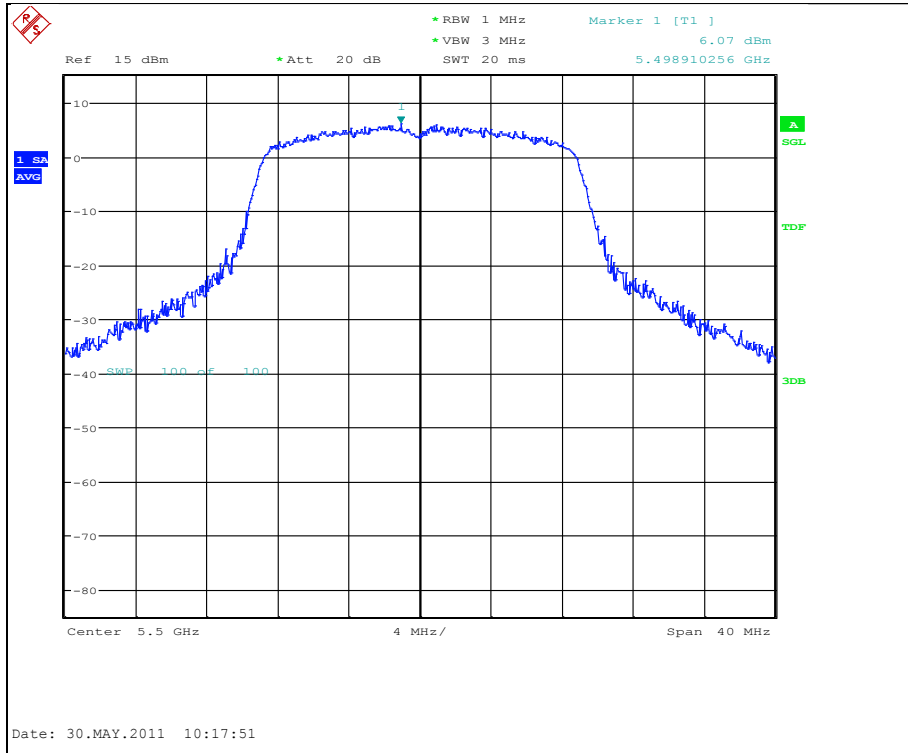
Channel 52 / 5260 MHz



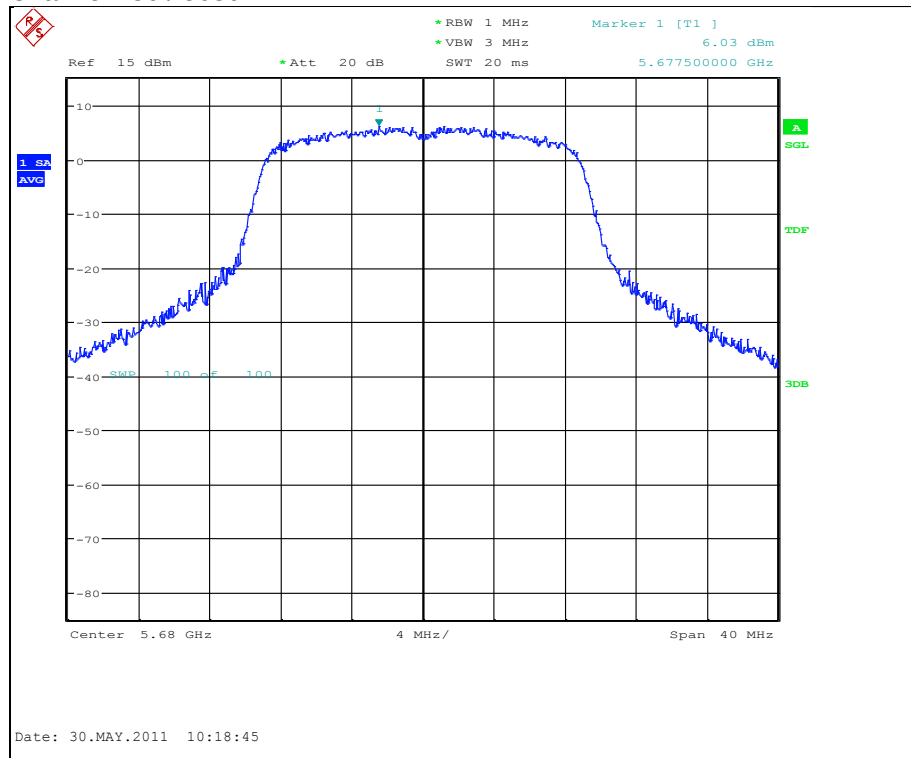
Channel 64 / 5320 MHz



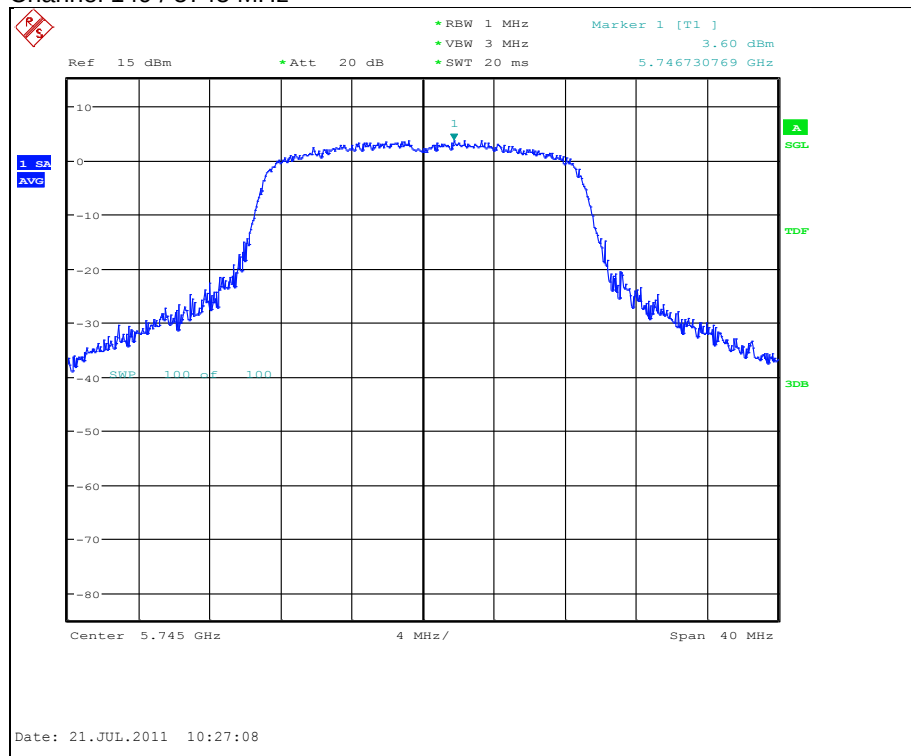
Channel 100 / 5500 MHz



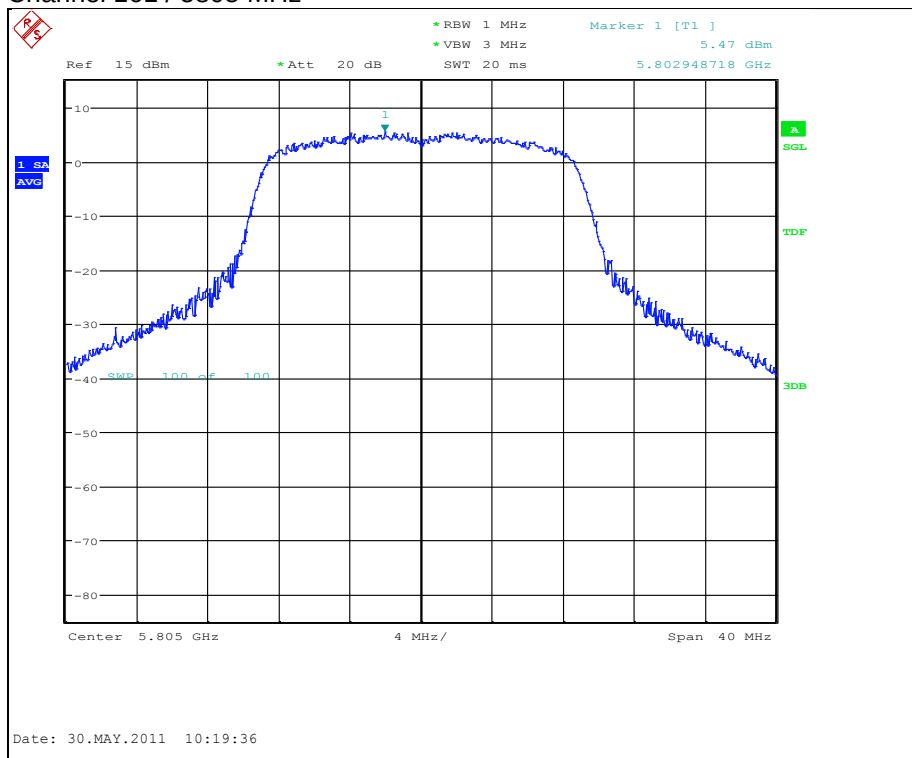
Channel 136 / 5680 MHz



Channel 149 / 5745 MHz



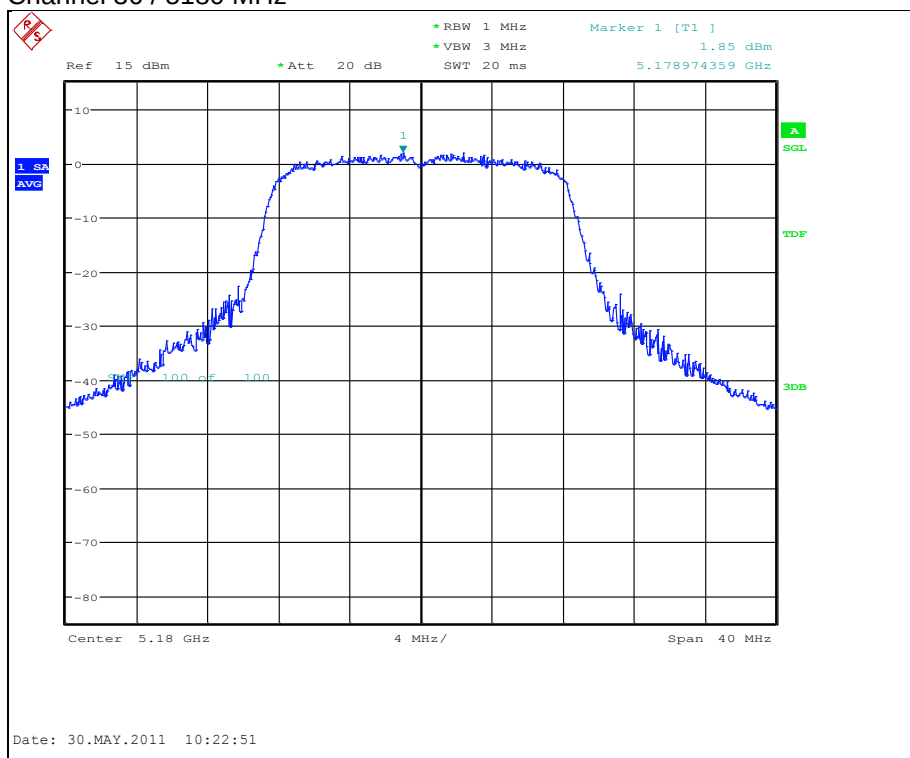
Channel 161 / 5805 MHz



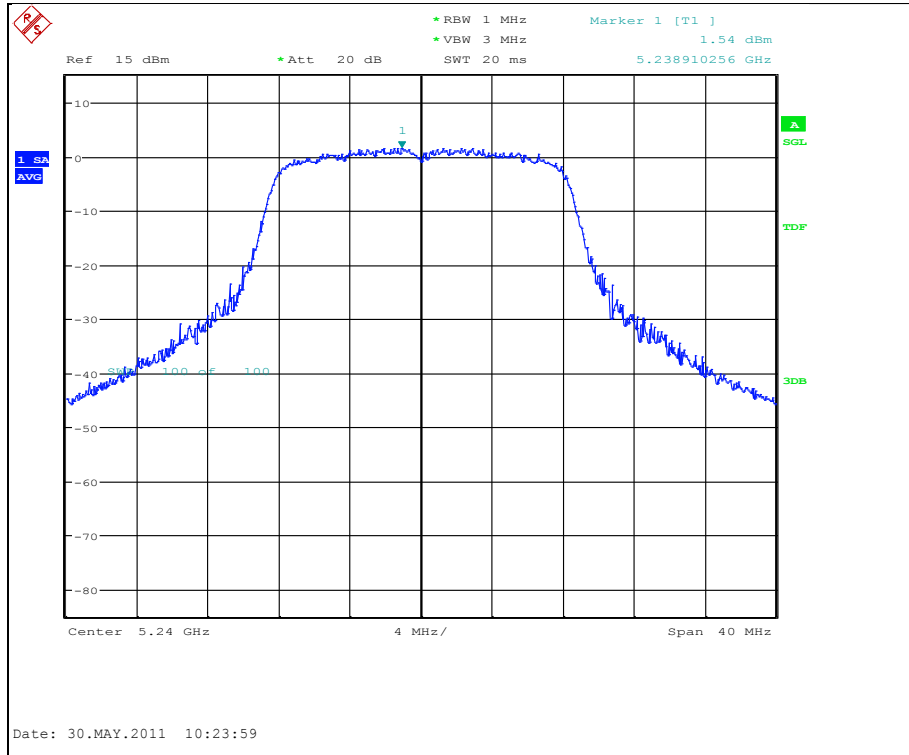
7.2.2 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel / f_c [MHz]	Peak power spectral density [dBm]	Result
36 / 5180	1.85	PASSED
48 / 5240	1.54	PASSED
52 / 5260	3.97	PASSED
64 / 5320	6.09	PASSED
100 / 5500	6.42	PASSED
136 / 5680	6.57	PASSED
149 / 5745	3.80	PASSED
161 / 5805	5.71	PASSED

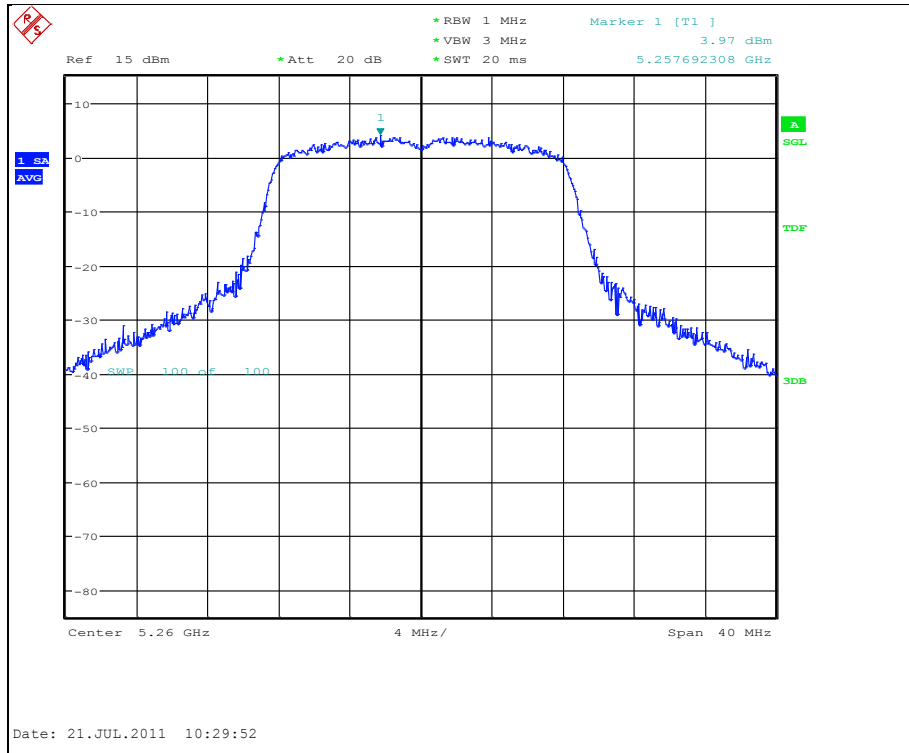
Channel 36 / 5180 MHz



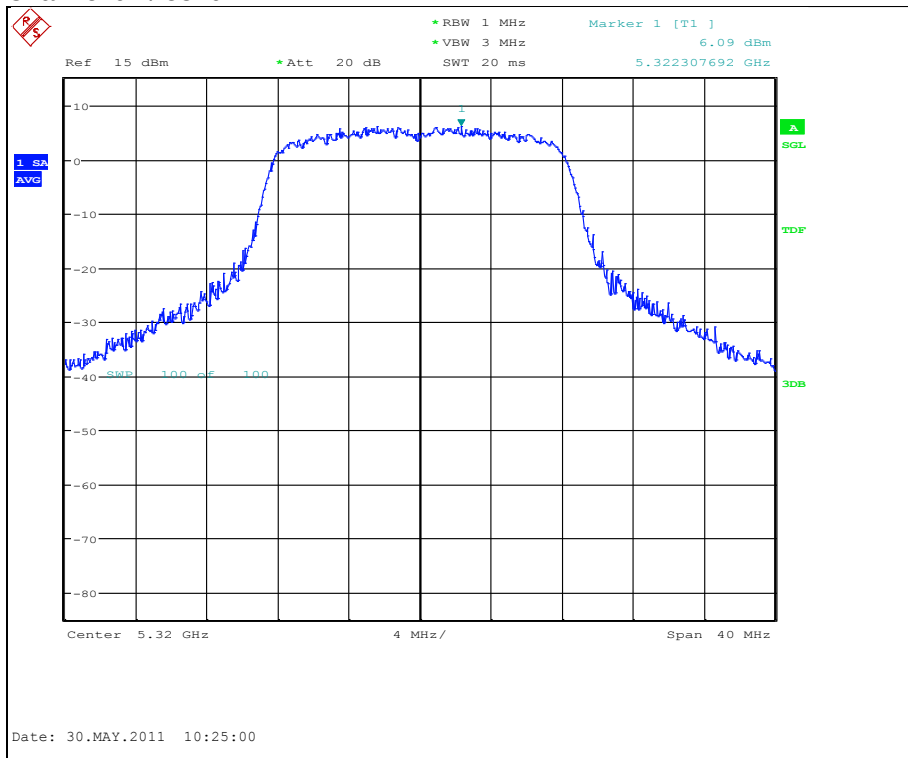
Channel 48 / 5240 MHz



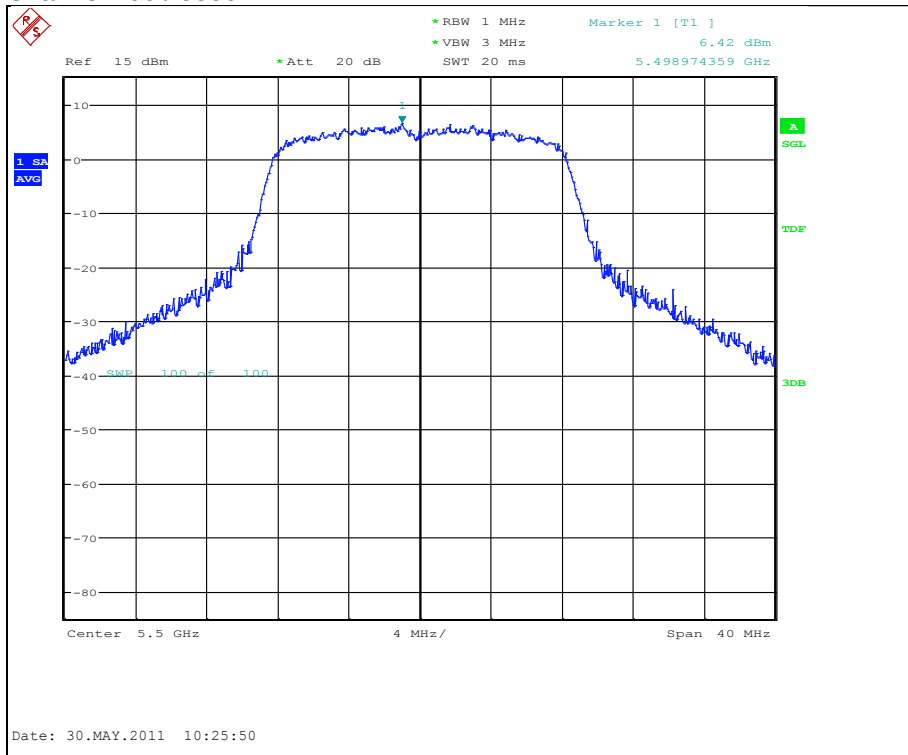
Channel 52 / 5260 MHz



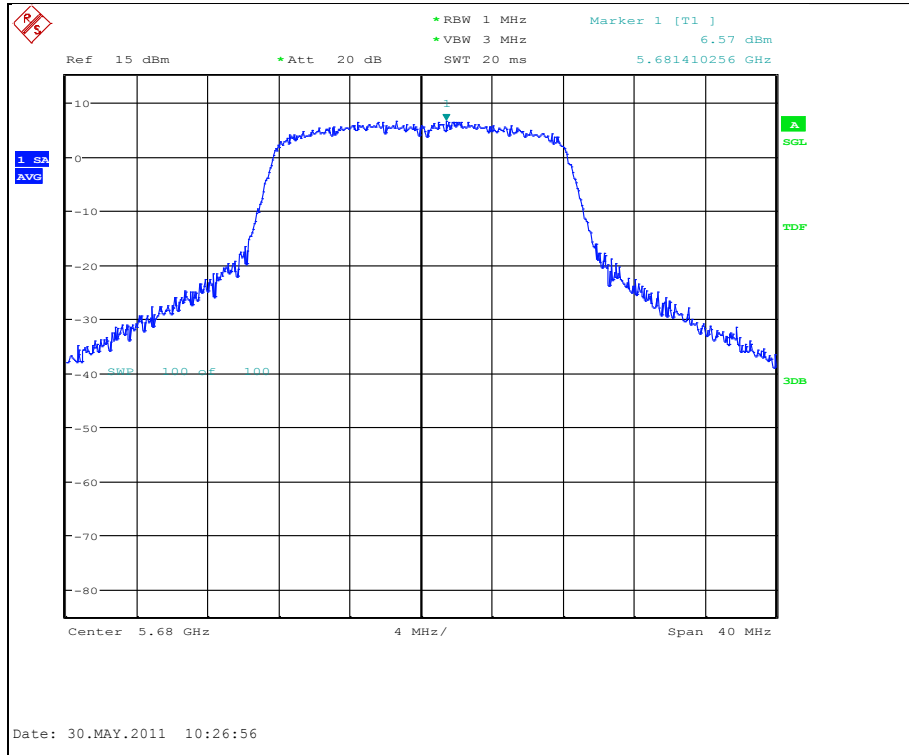
Channel 64 / 5320 MHz



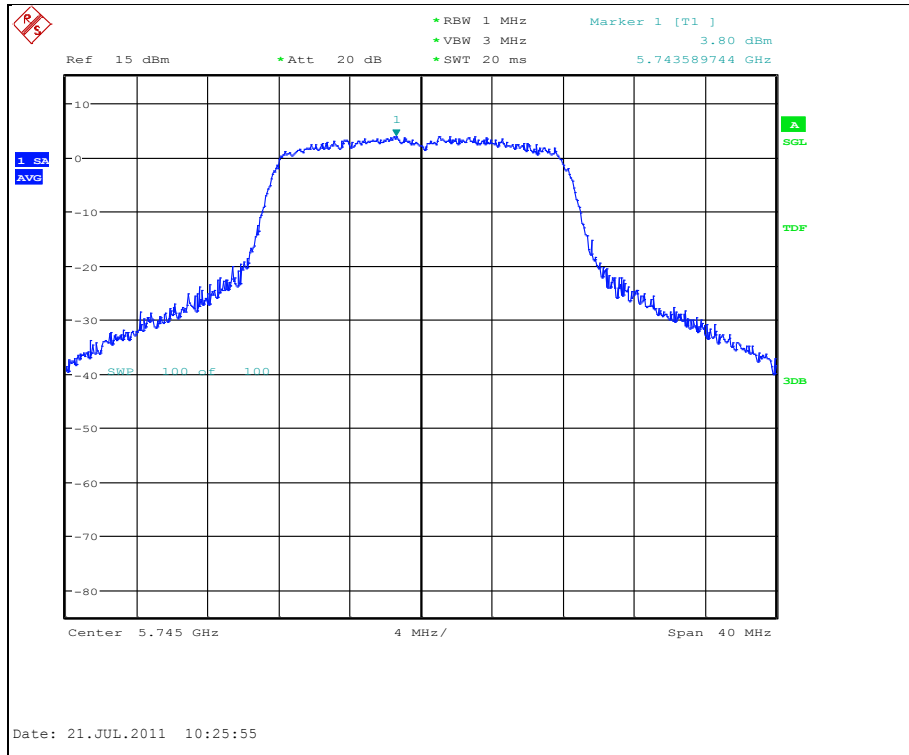
Channel 100 / 5500 MHz



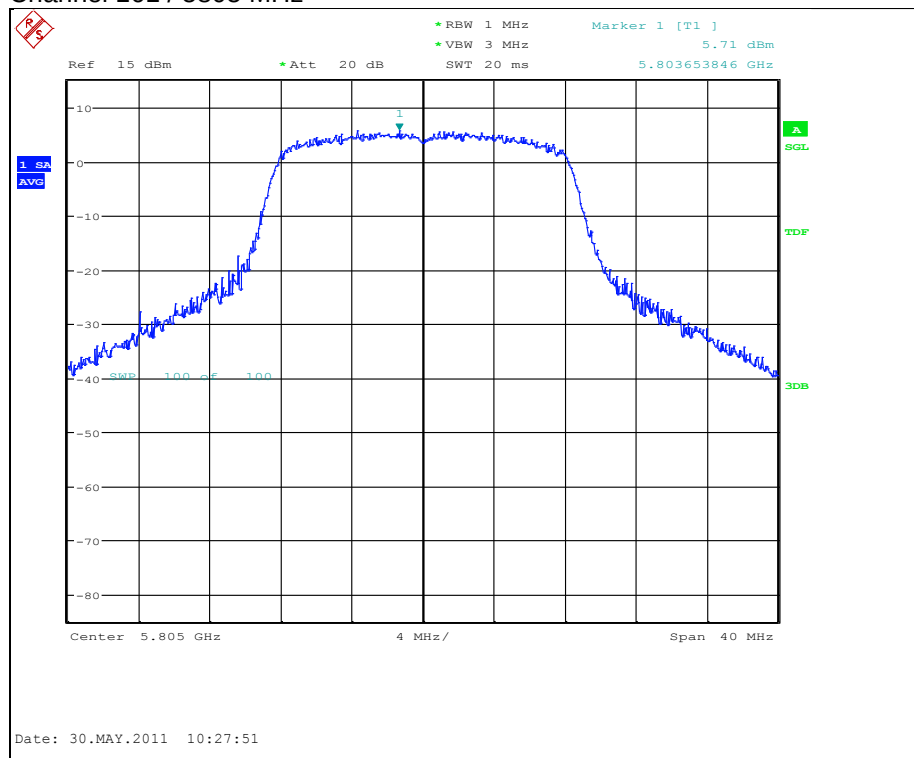
Channel 136 / 5680 MHz



Channel 149 / 5745 MHz



Channel 161 / 5805 MHz



8. Test Equipment

8.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM38112	Power supply	6632A	Agilent	22/24/27, 15C
TM38631	Signal Generator	83640L	Agilent	22/24/27, 15C, 15B
OM0631 2	Signal Generator	E4422B	Agilent	22/24
TM37678	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
TM37773	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
TM30600	Impulse limiter	ESH3-Z2	R&S	15C, 15B
TM26490	LISN 50 μ H	ESH3-Z5	R&S	15C, 15B
TM26491	LISN 50 μ H	ESH3-Z5	R&S	15C, 15B
TM37610	Spectrum Analyzer	FSU26	R&S	22/24/27, 15C
TM22806	Battery	BAT 20/E	Fiskars	15C, 15B
TM22805	UPS	PS 20/1.2	Fiskars	15C, 15B
-	Temperature and humidity logger	175-H2	Testo	15C, 15B
-	Temperature and humidity logger	175-H2	Testo	22/24/27, 15C
-	Air pressure and temperature logger	635-2	Testo	22/24/27, 15C, 15B
-	Air pressure sensor	0638-1835	Testo	22/24/27, 15C, 15B
-	Temperature test chamber	VT 4002	Vötsch	22/24
2058	Receiver	ESPC	R&S	15C, 15B
2001	Bluetooth tester	CBT	R&S	22/24/27, 15C, 15B
2002	Communication Tester	CMU200	R&S	22/24/27
2009	LISN 50 μ H	ENV216	R&S	15C, 15B
2010	LISN 50 μ H	ENV216	R&S	15C, 15B
2012	Power splitter	11667B	Agilent	22/24/27, 15C
2013	Attenuator	8493C	Agilent	22/24/27, 15C
2014	Attenuator	8493C	Agilent	22/24/27, 15C

8.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
TM38114	Power supply	6632A	Agilent	22/24/27, 15C, 15B
TM38631	Signal Generator	83640L	Agilent	22/24/27, 15C, 15B
TM38323	Preamplifier	PA-02 18-26 GHz	EMC Automation	22/24/27, 15C, 15B
-	Antenna	BBHA 9120 D	Schwarzbeck	22/24/27, 15C
TM26497	Antenna	3115	Emco	22/24/27, 15C, 15B
TM37678	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
TM37773	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
TM38845	Receiver	ESIB 26	R&S	22/24/27, 15C, 15B
-	Antenna	HL562	R&S	22/24/27, 15C, 15B
TM26500	Turntable	DS412	Deisel	22/24/27, 15C, 15B
TM30642	Mast/turntable controller	HD-100	Deisel	22/24/27, 15C, 15B
TM38990	Remote switching module	RSM1	EMC Automation	22/24/27, 15C, 15B
TM38341	System interface	SI-300	EMC Automation	22/24/27, 15C, 15B
-	Mini mast	2075-2	ETS Lindgren	22/24/27, 15C, 15B
TM38843	Mini mast	2075	Emco	22/24/27, 15C, 15B
TM38842	Controller	2090	Emco	22/24/27, 15C, 15B
TM39158	Antenna	3116	Emco	22/24/27, 15C, 15B
TM30643	LISN 50 μ H	LISN-5-20-2	FCC	22/24/27, 15C, 15B
TM30644	LISN 50 μ H	LISN-5-20-2	FCC	22/24/27, 15C, 15B
-	Temperature and humidity logger	175-H2	Testo	22/24/27, 15C, 15B
-	Air pressure and temperature logger	635-2	Testo	22/24/27, 15C, 15B

Eq. No	Equipment	Type	Manufacturer	Used in
-	Air pressure sensor	0638-1835	Testo	22/24/27, 15C, 15B
TM39180	Laser distance meter	Disto Pro	Leica	22/24/27, 15C, 15B
TM37523	Preamplifier	AMF-4D-10M-3G-25-20P	Miteq	22/24/27, 15C, 15B
-	Preamplifier	AFS4-00100300-20-23P6	Miteq	15C
TM37498	Preamplifier	AMF-5D-020180-26-10P	Miteq	22/24/27, 15C, 15B
TM30599	Semi anechoic chambre	UNKNOWN	TDK	22/24/27, 15C, 15B
TM22638	Power supply	OL63743-901	Torqueleader	22/24/27, 15C, 15B
TM38066	High pass filter	4HC3000/18000-3-KK	Trilithic	22/24/27, 15C, 15B
TM26511	Tunable notch filter	WRCA870/	Wainwright	27
TM38215	Band reject filter	WRCD 1920/1980-1918/1982-40/20	Wainwright UMTS	27
TM38214	Band reject filter	WRCT 2402/2480-2400/2483.5-30/	Wainwright ISM	15C
-	Band reject filter	WRCG1877/1883-1870/1890-40/6EE	Wainwright	27
-	Band reject filter	WRCG1729.4/1735.4-1722.4/1742.4-40/6SS	Wainwright	27
-	Band reject filter	WRCG832/838-825/848-40/5SS	Wainwright	27
TM23892	Controller	G-1000SDX	Yaesu	22/24/27
2001	Bluetooth tester	CBT	R&S	22/24/27, 15C, 15B
-	Antenna	SBA 9113	Schwarzbeck	22/24/27
6023	Antenna	VUBA 9117	Schwarzbeck	22/24/27, 15C