

FCC Part 15E Compliance Test Report

Test Report no.:	FCC15E_RM-893_12.docx	Date of Report:	20-May-2013
Number of pages:	134	Customer's Contact person:	Jari Rontu
Testing laboratory:	TCC Nokia Salo Laboratory P.O.Box(86) Joensuunkatu 7H / Kiila 1B FIN-24101 SALO, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 45220	Customer:	Nokia Corporation P.O.Box(86) Joensuunkatu 7H FIN-24101 SALO, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 45220
FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-893 / Battery BL-4YW / Headset WH-208 / AC-charger AC-50E		
FCC ID:	PYAA1	IC:	661V-A1
Supplement reports:	-		
Testing has been carried out in accordance with:	CFR 47, FCC rules Part 15 Subpart E, ANSI C63.4 (2003), DTS procedures KDB 789033 D01, IC standards. 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:			

Sami Lehtonen, Specialist, EMC

1. Summary for FCC Part 15E Compliance Test Report

Date of receipt	18-Apr-2013
Testing completed	10-May-2013
The customer's contact person	Jari Rontu
Test Plan referred to	T:\Projects\RM-892\TestPlan\RS_testplan_RM-892_EMC_FCC_SAR.xlsm
Notes	-
Document name	T:\Projects\RM-893\EMC\FCC15E_RM-893_12.docx

1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:

GSM/WCDMA/WLAN

The EUT is tested with maximum rated TX power.

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-892	004402472234867	0401	-	3033.0000.1313.0000	17329
Headset	WH-208	2332271	-	-	-	17347
Phone	RM-892	004402472236870	0401	-	3035.0000.1315.1000	17345
Battery	BL-4YW (LG)	-	4.0	-	-	17353
AC-Charger	AC-50E	409049250469060094300675619	-	-	-	17354
Headset	WH-208	2332271	-	-	-	17355
Phone	RM-892	004402473892473	0410	-	3037.0000.1316.21035	17369
Battery	BL-4YW	-	4.0	-	-	17356
Headset	WH-208	2332271	-	-	-	17346
AC-charger	AC-50E	40904925045905009400575619	-	-	-	17350

1.2. Summary of Test Results

5 GHz RLAN:

Section in CFR 47	Section in RSS-GEN or RSS-210	Name of the test	Result
15.407(a)	A9.2	Conducted peak output power	PASSED
15.407(b)	A9.2	Band edge compliance of RF emissions	PASSED
15.407(a)(6)	A9.2	Peak excursion	PASSED
15.407(b)	A9.2	Spurious radiated emissions	PASSED
15.407(b)(6)	A9.2	AC powerline conducted emissions	PASSED
-	A9.2	26dB(bandwidth)	PASSED
15.407(a)	A9.2	Power spectral density	PASSED

PASSED

The EUT complies with the essential requirements in the standard.

FAILED

The EUT does not comply with the essential requirements in the standard.

NP

The test was not performed by the TCC Nokia Laboratory.

The test results of PYARM-892 are re-used for certification of the PYARM-893. The table above indicates the results, which will be re-used.

CONTENTS

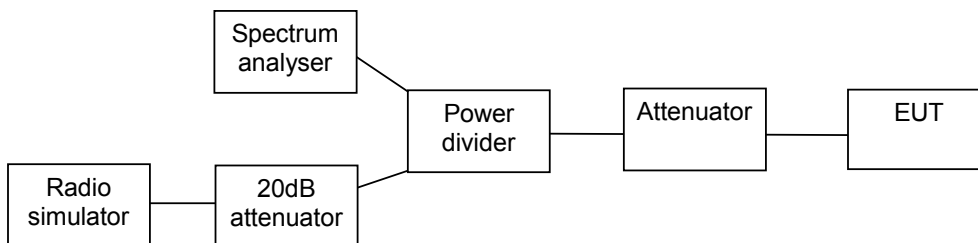
1. Summary for FCC Part 15E Compliance Test Report.....	2
1.1. EUT and Accessory Information.....	2
1.2. Summary of Test Results.....	2
2. Maximum conducted output power (FCC §15.407 (a), RSS-210 A9.2).....	5
2.1. Test Setup.....	5
2.2. Test method and limit.....	5
2.3. Power results summary.....	6
2.4. 5 GHz RLAN Test results.....	7
3. Peak excursion (FCC §15.407 (a), RSS-210 A9.2).....	35
3.1. Test Setup.....	35
3.2. Test method and limit.....	35
3.3. 5 GHz RLAN Test results.....	36
4. AC powerline conducted emissions (FCC §15.407 (b) (6), RSS-210 A9.2)	54
4.1. Test Setup.....	54
4.2. Test method and limit.....	54
4.3. 5 GHz RLAN Test results.....	55
5. 26 dB bandwidth	59
5.1. Test Setup.....	59
5.2. Test method and limit.....	59
5.3. 5 GHz RLAN Test results.....	60
6. Peak power spectral density (FCC §15.407(a), RSS-210 A9.2).....	78
6.1. Test Setup.....	78
6.2. Test method and limit.....	78
6.3. 5 GHz RLAN Test results.....	79
7. Spurious radiated emissions (FCC §15.407 (b), RSS-210 A9.2).....	91
7.2. Test method and limit.....	91
7.3. 5 GHz RLAN test results	93
8. Band edge compliance of RF emissions (FCC §15.407 (b), RSS-210 A9.2).....	108
8.2. Test method and limit.....	108
8.3. 5 GHz RLAN test results	109

9. Test Equipment.....	132
9.1. Conducted measurements	132
9.2. Radiated measurements	133

2. Maximum conducted output power (FCC §15.407 (a), RSS-210 A9.2)

EUT with DUT number	RM-892, DUT 17329
Accessories with DUT numbers	WH-208, DUT 17347
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 30 / 102
Date of measurements	23-Apr-2013
Measured by	Jari Keto

2.1. Test Setup



2.2. Test method and limit

The measurement is made according to Public Notice KDB 789033 D01 and IC standard RSS-210.

Limits for Maximum conducted 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

2.3. Power results summary

Channel / fC [MHz]	Mode	Modulation	Data rate	Level [dBm]
36 / 5180	802.11g	BPSK	6 Mbps	15.5
36 / 5180	802.11g	BPSK	9 Mbps	14.81
36 / 5180	802.11g	QPSK	12 Mbps	14.87
36 / 5180	802.11g	QPSK	18 Mbps	14.88
36 / 5180	802.11g	16QAM	24 Mbps	14
36 / 5180	802.11g	16QAM	36 Mbps	14.01
36 / 5180	802.11g	64QAM	48 Mbps	13.13
36 / 5180	802.11g	64QAM	54 Mbps	12.05
36 / 5180	802.11n	BPSK	6.5 / 7.25 Mbps	14.87
36 / 5180	802.11n	QPSK	13.0 / 14.4 Mbps	14.86
36 / 5180	802.11n	QPSK	19.5 / 21.7 Mbps	14.9
36 / 5180	802.11n	16QAM	26.0 / 28.9 Mbps	14.02
36 / 5180	802.11n	16QAM	39.0 / 43.3 Mbps	14.02
36 / 5180	802.11n	64QAM	52.0 / 57.8 Mbps	13.09
36 / 5180	802.11n	64QAM	58.5 / 65.0 Mbps	12.01
36 / 5180	802.11n	64QAM	65.0 / 72.2 Mbps	11.03
36+40 / 5190	802.11n	BPSK	13.5 / 15.0 Mbps	12.88
36+40 / 5190	802.11n	QPSK	27.0 / 30.0 Mbps	12.86
36+40 / 5190	802.11n	QPSK	40.5 / 45.0 Mbps	12.88
36+40 / 5190	802.11n	16QAM	54.0 / 60.0 Mbps	13.08
36+40 / 5190	802.11n	16QAM	81.0 / 90.0 Mbps	13.09
36+40 / 5190	802.11n	64QAM	108.0 / 120.0 Mbps	12.1
36+40 / 5190	802.11n	64QAM	121.5 / 135.0 Mbps	10.77
36+40 / 5190	802.11n	64QAM	135.0 / 150.0 Mbps	9.98
40 / 5200	802.11g	BPSK	6 Mbps	15.02
48 / 5240	802.11g	BPSK	6 Mbps	15.33
52 / 5260	802.11g	BPSK	6 Mbps	15.15
60 / 5300	802.11g	BPSK	6 Mbps	15.07
64 / 5320	802.11g	BPSK	6 Mbps	15.23
100 / 5500	802.11g	BPSK	6 Mbps	15.3
116 / 5580	802.11g	BPSK	6 Mbps	15.12
140 / 5700	802.11g	BPSK	6 Mbps	14.79
40 / 5200	802.11n	QPSK	19.5 / 21.7 Mbps	15.02
48 / 5240	802.11n	QPSK	19.5 / 21.7 Mbps	15.31
52 / 5260	802.11n	QPSK	19.5 / 21.7 Mbps	15.21
60 / 5300	802.11n	QPSK	19.5 / 21.7 Mbps	15.2
64 / 5320	802.11n	QPSK	19.5 / 21.7 Mbps	15.35
100 / 5500	802.11n	QPSK	19.5 / 21.7 Mbps	13.4
116 / 5580	802.11n	QPSK	19.5 / 21.7 Mbps	15.11
140 / 5700	802.11n	QPSK	19.5 / 21.7 Mbps	12.96
44+48 / 5230	802.11n	BPSK	13.5 / 15.0 Mbps	13.37
52+56 / 5270	802.11n	BPSK	13.5 / 15.0 Mbps	13.38
60+64 / 5310	802.11n	BPSK	13.5 / 15.0 Mbps	13.59
100+104 / 5510	802.11n	BPSK	13.5 / 15.0 Mbps	12.62
108+112 / 5550	802.11n	BPSK	13.5 / 15.0 Mbps	13.3
132+136 / 5670	802.11n	BPSK	13.5 / 15.0 Mbps	13.05
44+48 / 5230	802.11n	16QAM	81.0 / 90.0 Mbps	13.57
52+56 / 5270	802.11n	16QAM	81.0 / 90.0 Mbps	13.27
60+64 / 5310	802.11n	16QAM	81.0 / 90.0 Mbps	13.78
100+104 / 5510	802.11n	16QAM	81.0 / 90.0 Mbps	12.87
108+112 / 5550	802.11n	16QAM	81.0 / 90.0 Mbps	13.51

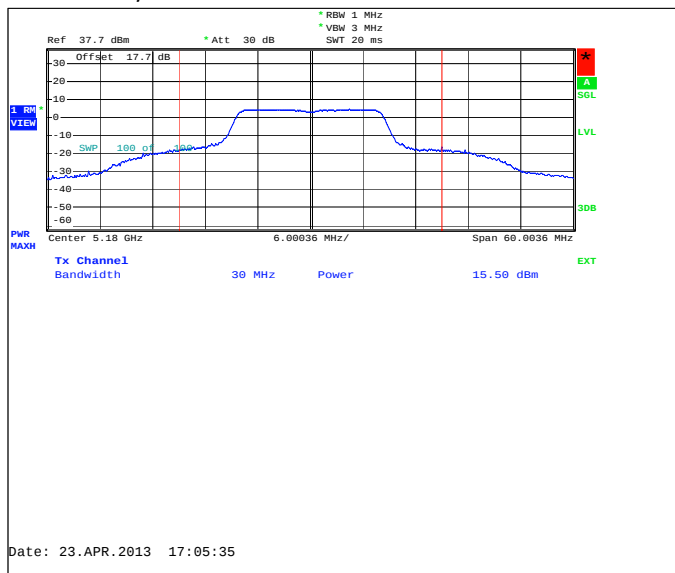
132+136 / 5670	802.11n	16QAM	81.0 / 90.0 Mbps	13.29
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2.4. 5 GHz RLAN Test results

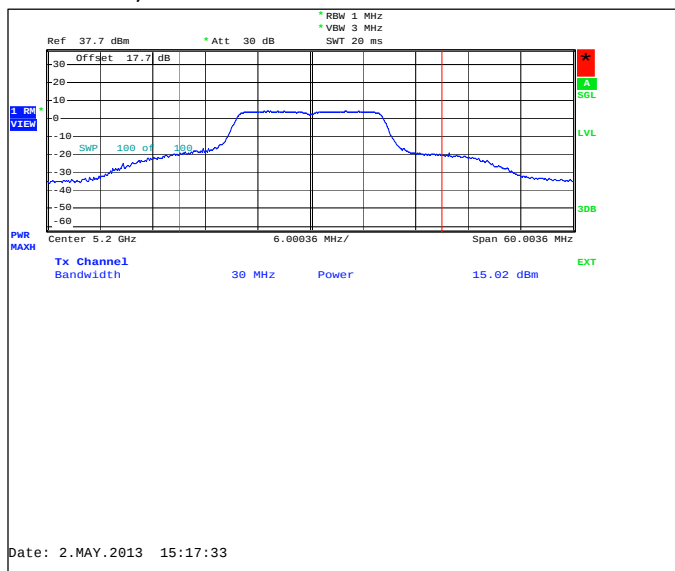
2.4.1 802.11g mode, BPSK modulation, 6 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	15.5	35.481	PASSED
40 / 5200	15.02	31.769	PASSED
48 / 5240	15.33	34.119	PASSED
52 / 5260	15.15	32.734	PASSED
60 / 5300	15.07	32.137	PASSED
64 / 5320	15.23	33.343	PASSED
100 / 5500	15.3	33.884	PASSED
116 / 5580	15.12	32.509	PASSED
140 / 5700	14.79	30.13	PASSED

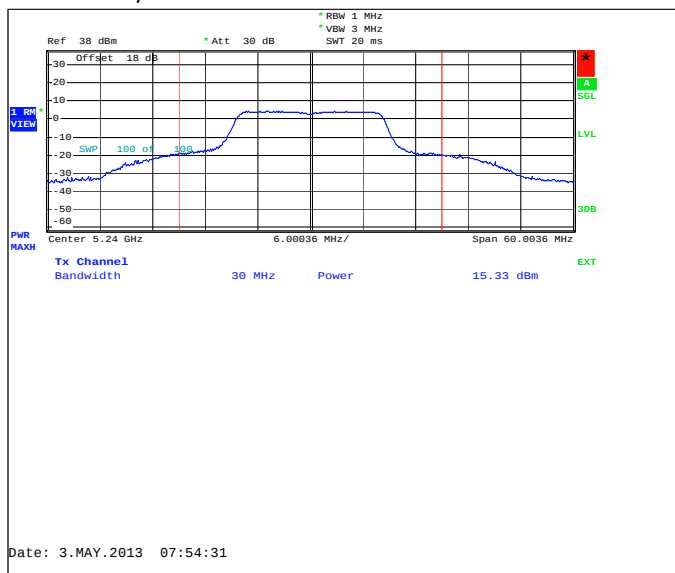
Channel 36 / 5180MHz



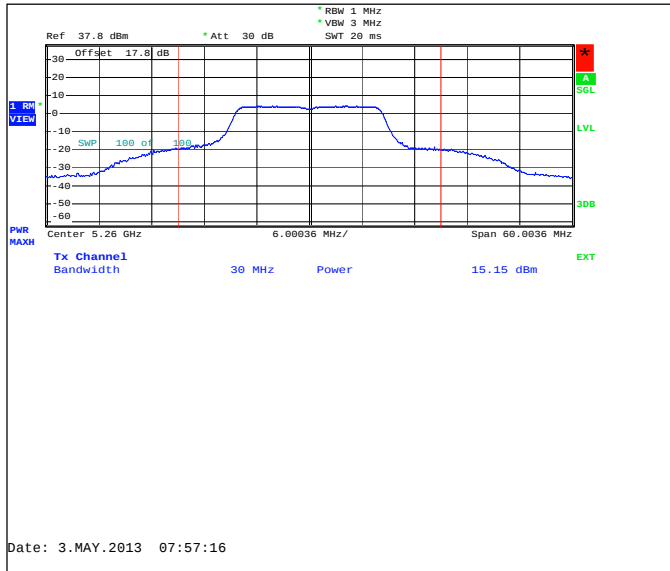
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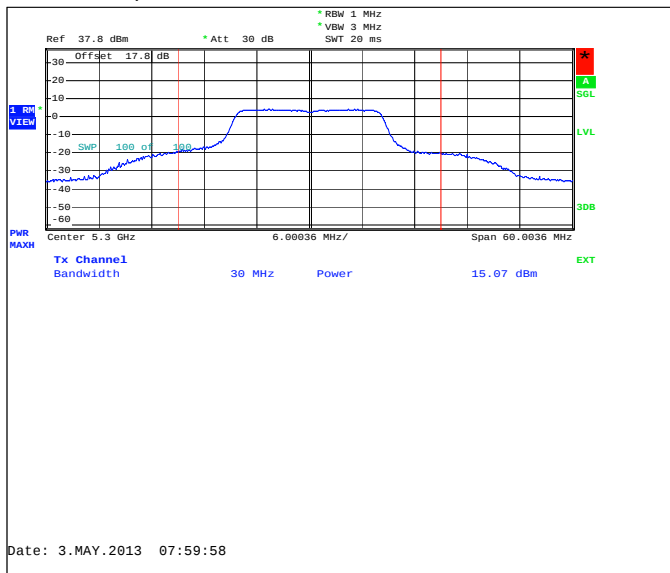
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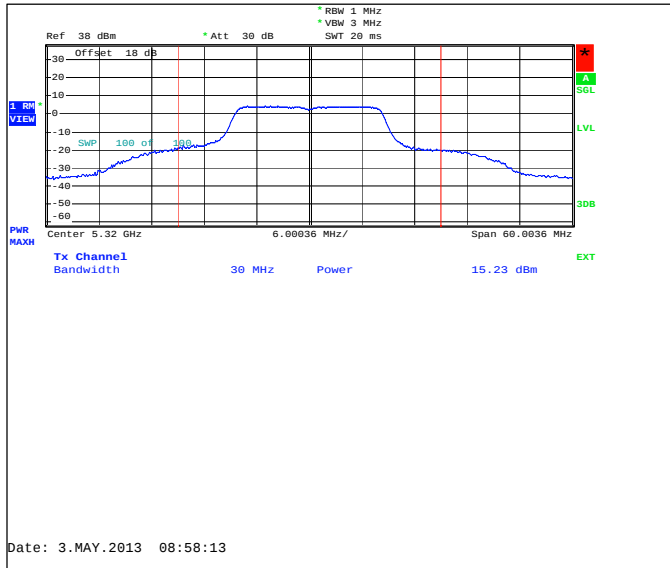
Channel 52 / 5260MHz



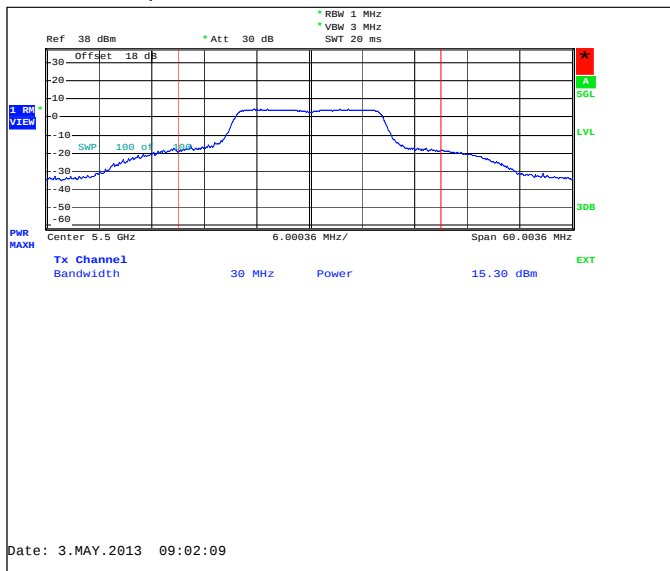
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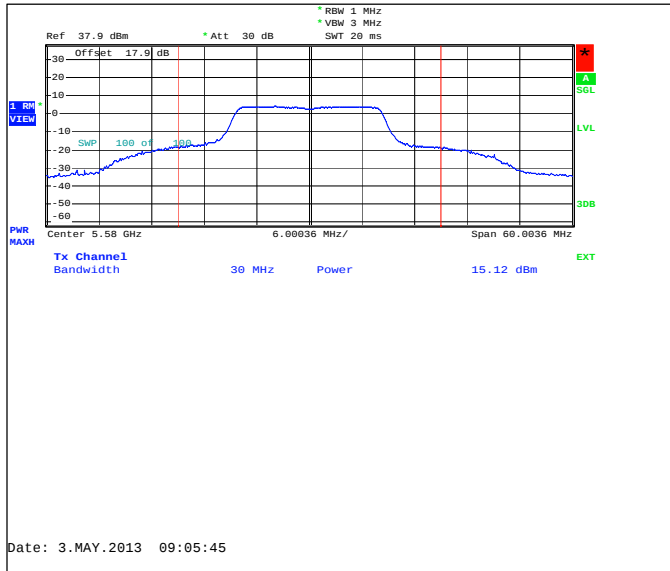
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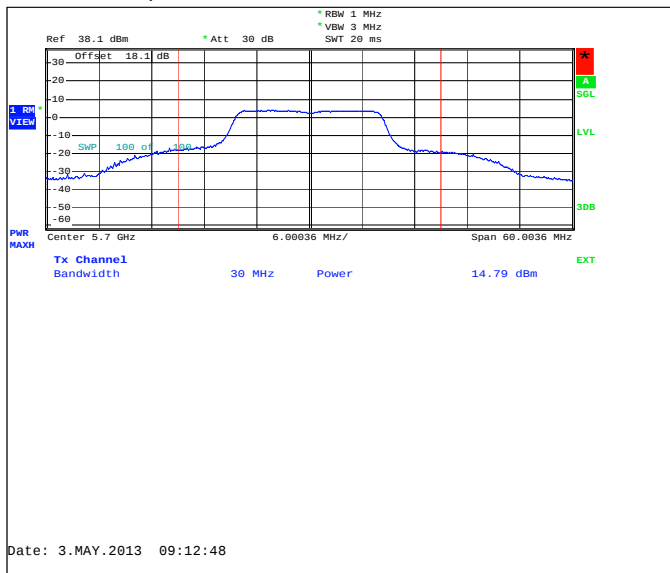
Channel 100 / 5500MHz



Channel 116 / 5580MHz



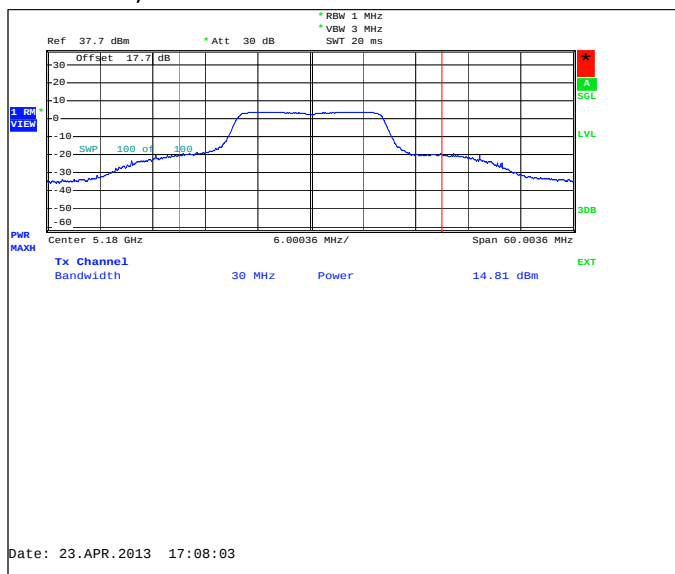
Channel 140 / 5700MHz



2.4.2 802.11g mode, BPSK modulation, 9 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.81	30.269	PASSED

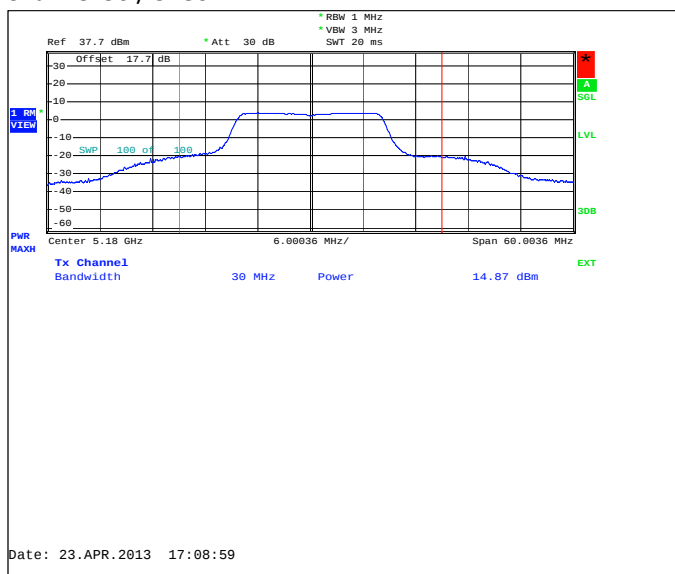
Channel 36 / 5180MHz



2.4.3 802.11g mode, QPSK modulation, 12 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.87	30.69	PASSED

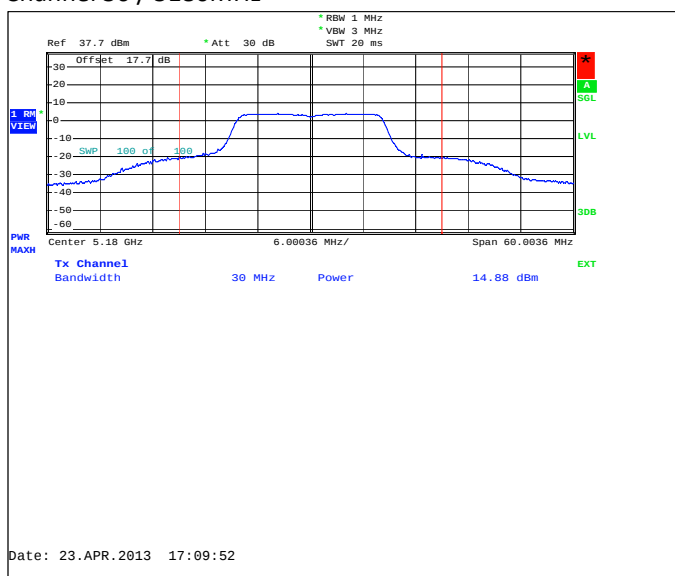
Channel 36 / 5180MHz



2.4.4 802.11g mode, QPSK modulation, 18 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.88	30.761	PASSED

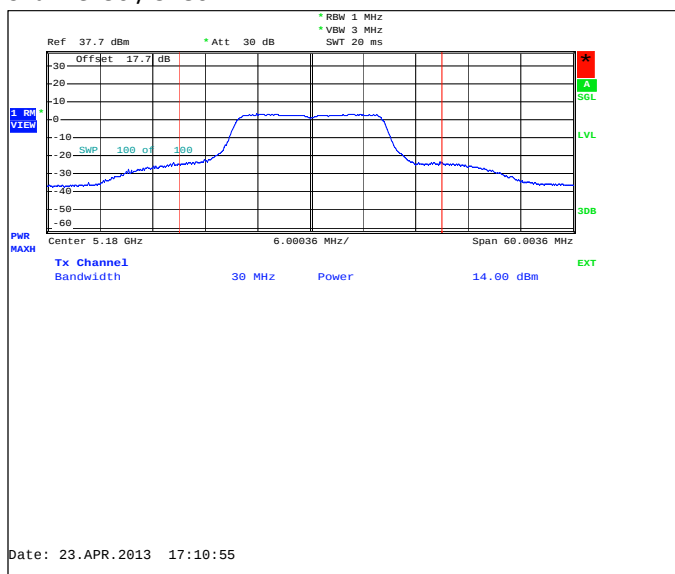
Channel 36 / 5180MHz



2.4.5 802.11g mode, 16QAM modulation, 24 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14	25.119	PASSED

Channel 36 / 5180MHz



2.4.6 802.11g mode, 16QAM modulation, 36 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.01	25.177	PASSED

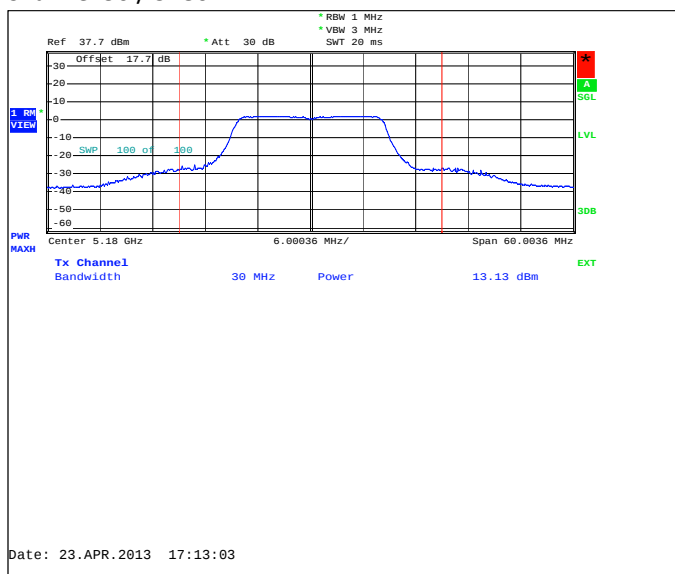
Channel 36 / 5180MHz



2.4.7 802.11g mode, 64QAM modulation, 48 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	13.13	20.559	PASSED

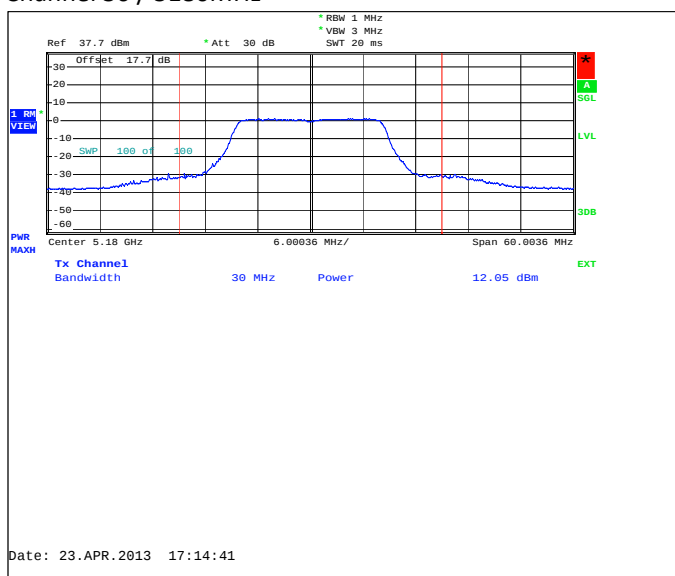
Channel 36 / 5180MHz



2.4.8 802.11g mode, 64QAM modulation, 54 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	12.05	16.032	PASSED

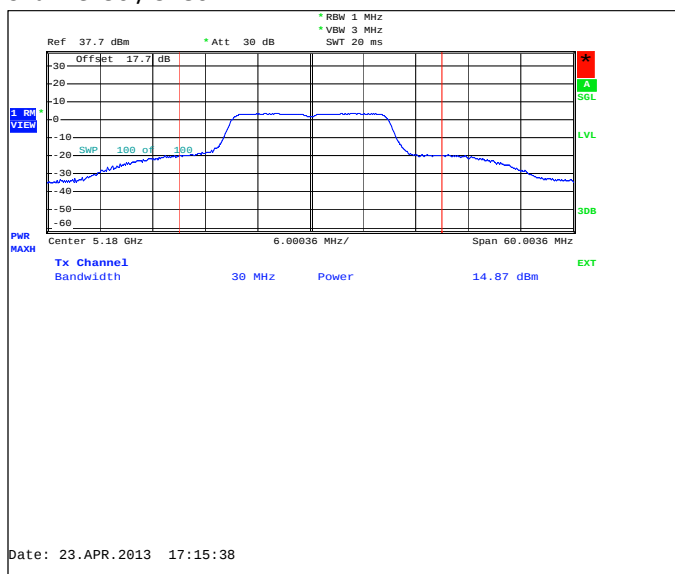
Channel 36 / 5180MHz



2.4.9 802.11n mode, BPSK modulation, 6.5 / 7.25 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.87	30.69	PASSED

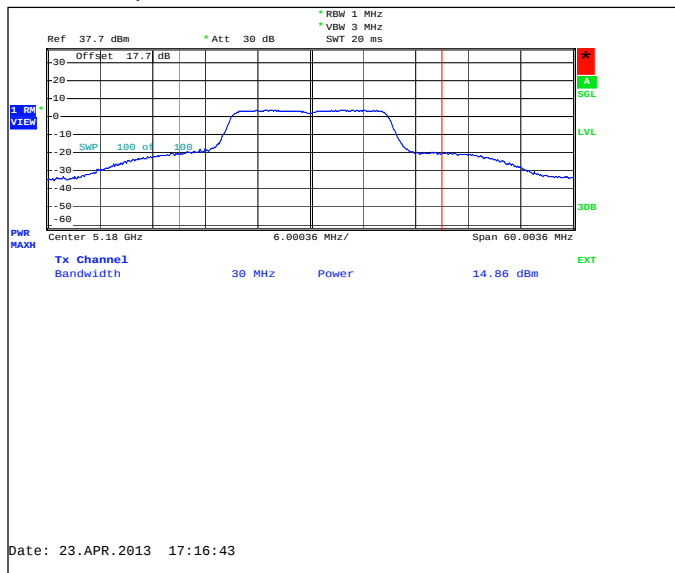
Channel 36 / 5180MHz



2.4.10 802.11n mode, QPSK modulation, 13.0 / 14.4 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.86	30.62	PASSED

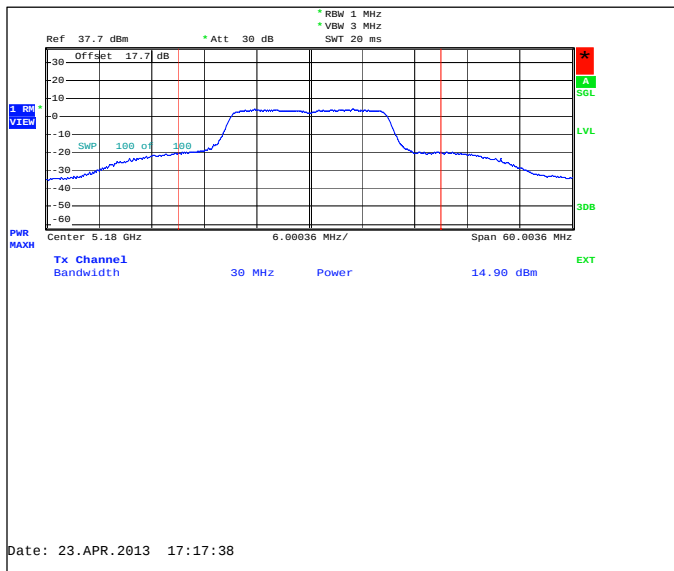
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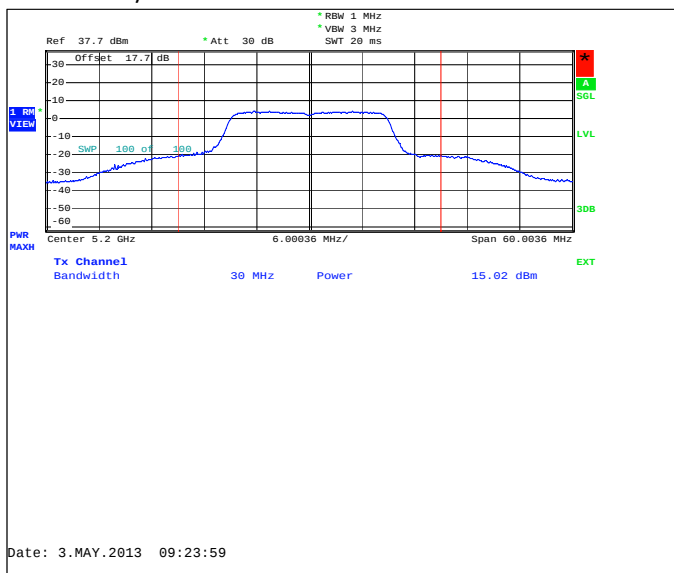
2.4.11 802.11n mode, QPSK modulation, 19.5 / 21.7 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.9	30.903	PASSED
40 / 5200	15.02	31.769	PASSED
48 / 5240	15.31	33.963	PASSED
52 / 5260	15.21	33.189	PASSED
60 / 5300	15.2	33.113	PASSED
64 / 5320	15.35	34.277	PASSED
100 / 5500	13.4	21.878	PASSED
116 / 5580	15.11	32.434	PASSED
140 / 5700	12.96	19.77	PASSED

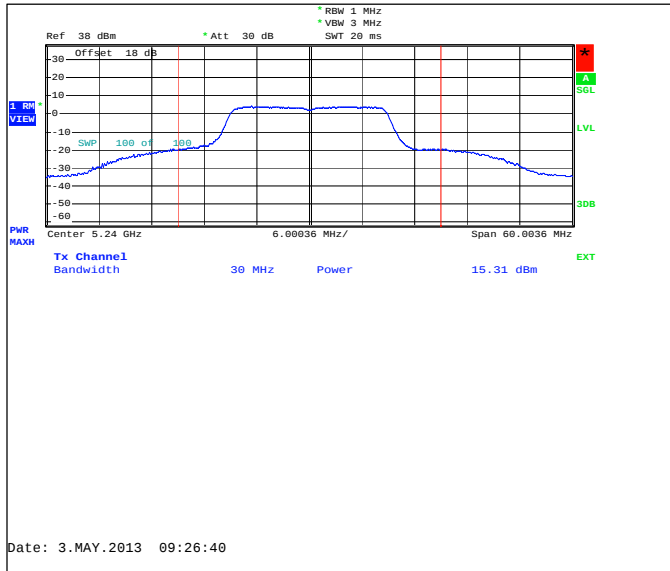
Channel 36 / 5180MHz



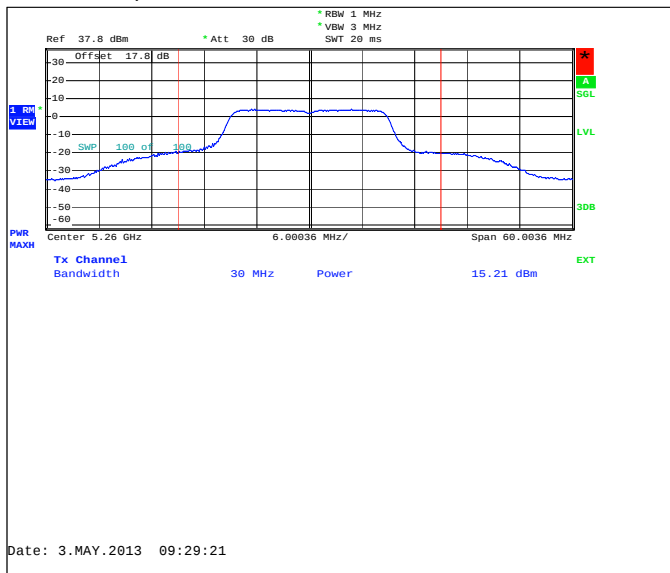
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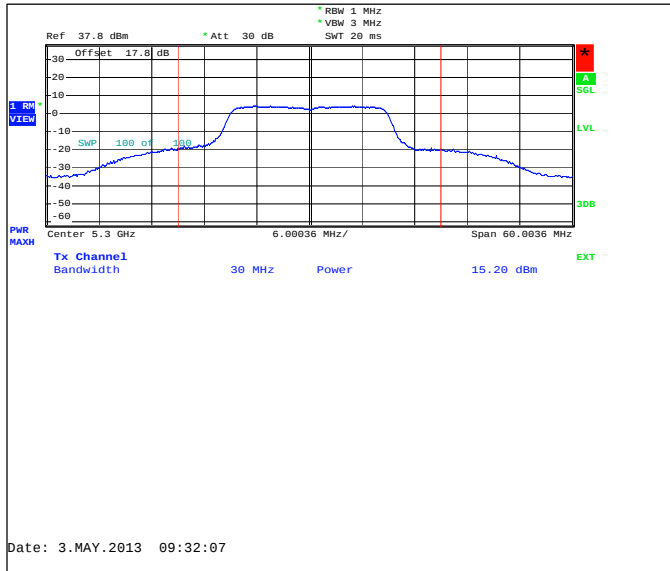
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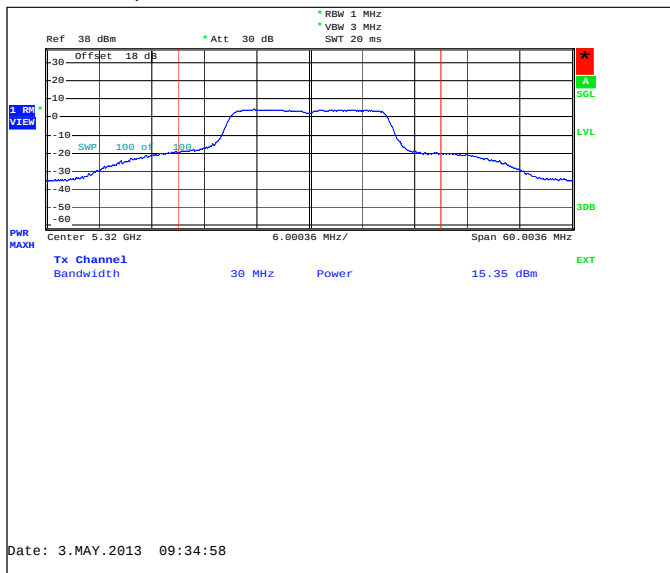
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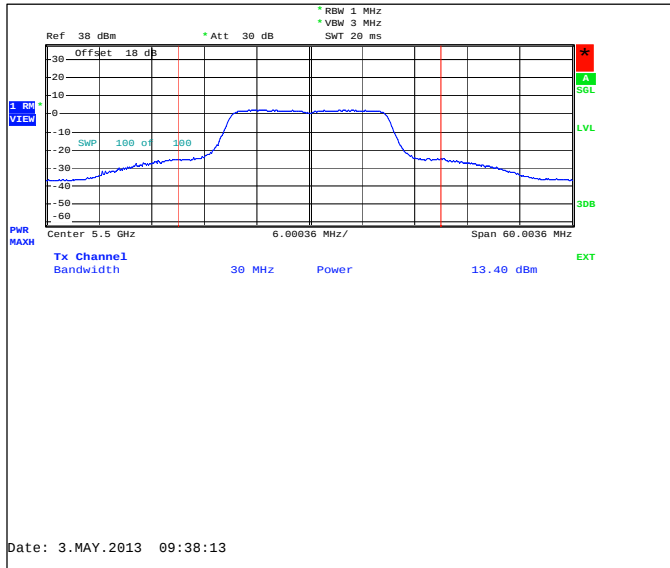
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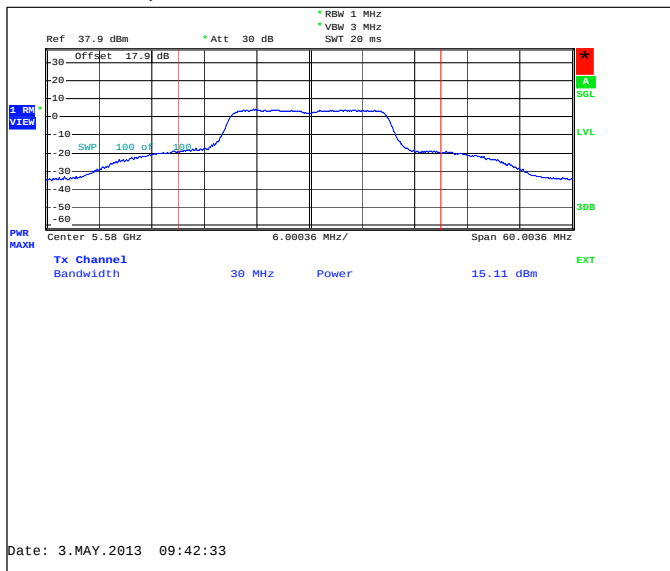
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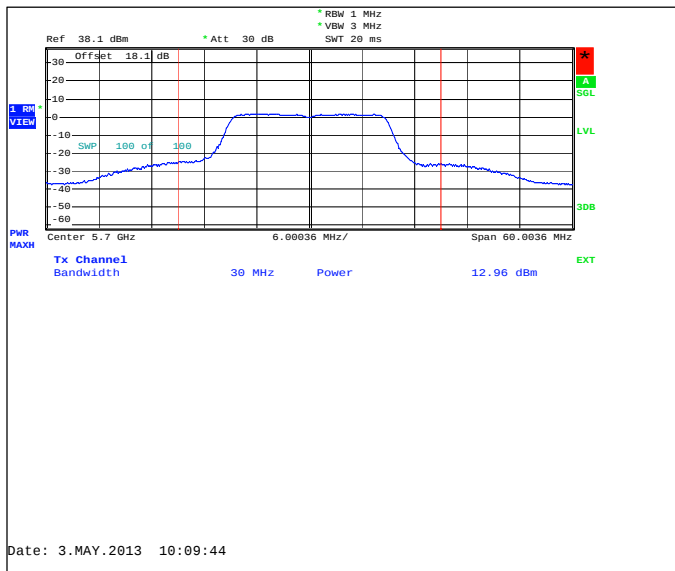
Channel 100 / 5500MHz



Channel 116 / 5580MHz



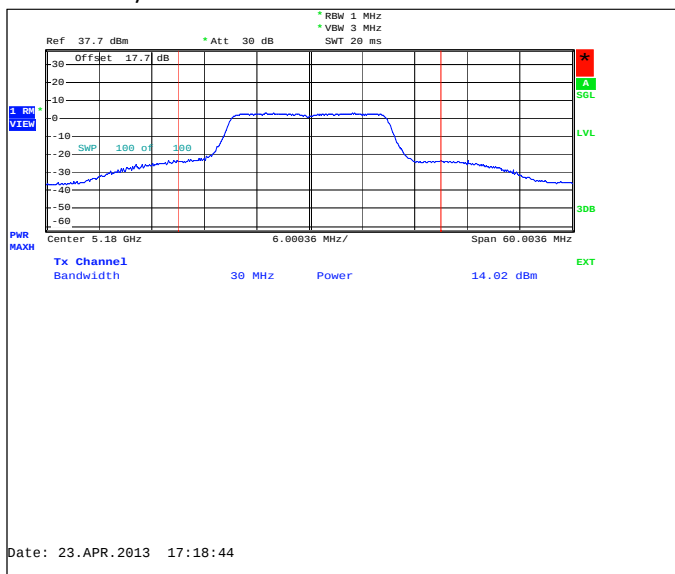
Channel 140 / 5700MHz



2.4.12 802.11n mode, 16QAM modulation, 26.0 / 28.9 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.02	25.235	PASSED

Channel 36 / 5180MHz



2.4.13 802.11n mode, 16QAM modulation, 39.0 / 43.3 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	14.02	25.235	PASSED

Channel 36 / 5180MHz



2.4.14 802.11n mode, 64QAM modulation, 52.0 / 57.8 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	13.09	20.37	PASSED

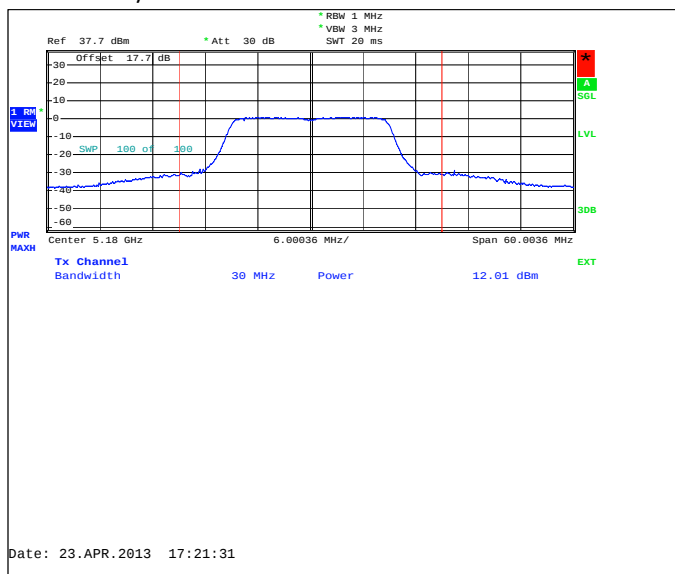
Channel 36 / 5180MHz



2.4.15 802.11n mode, 64QAM modulation, 58.5 / 65.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	12.01	15.885	PASSED

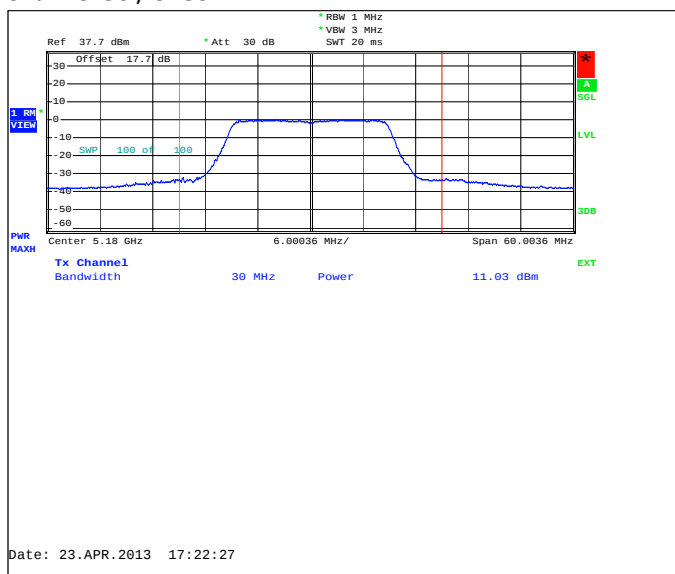
Channel 36 / 5180MHz



2.4.16 802.11n mode, 64QAM modulation, 65.0 / 72.2 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
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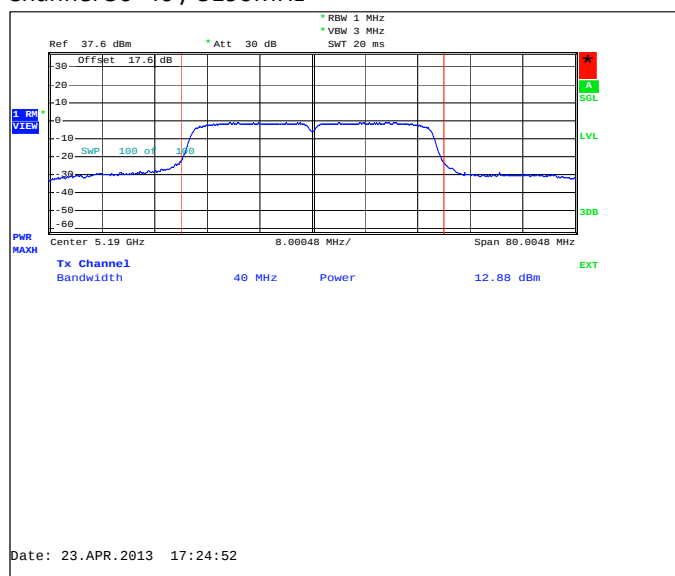
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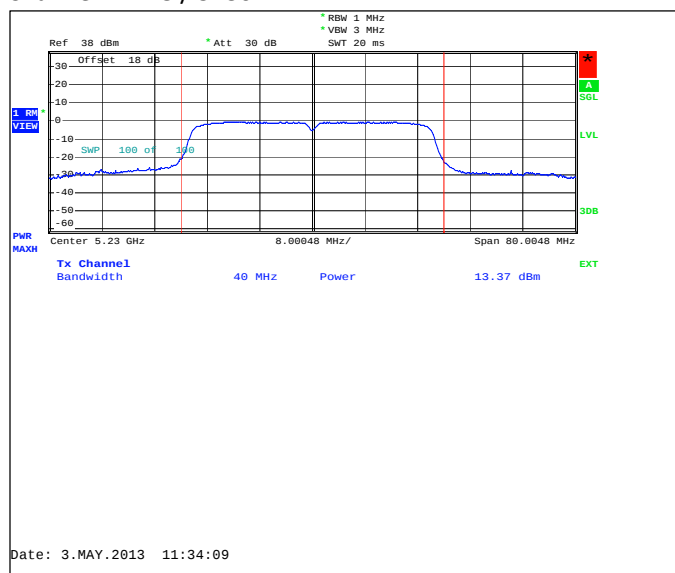
2.4.17 802.11n mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	12.88	19.409	PASSED
44+48 / 5230	13.37	21.727	PASSED
52+56 / 5270	13.38	21.777	PASSED
60+64 / 5310	13.59	22.856	PASSED
100+104 / 5510	12.62	18.281	PASSED
108+112 / 5550	13.3	21.38	PASSED
132+136 / 5670	13.05	20.184	PASSED

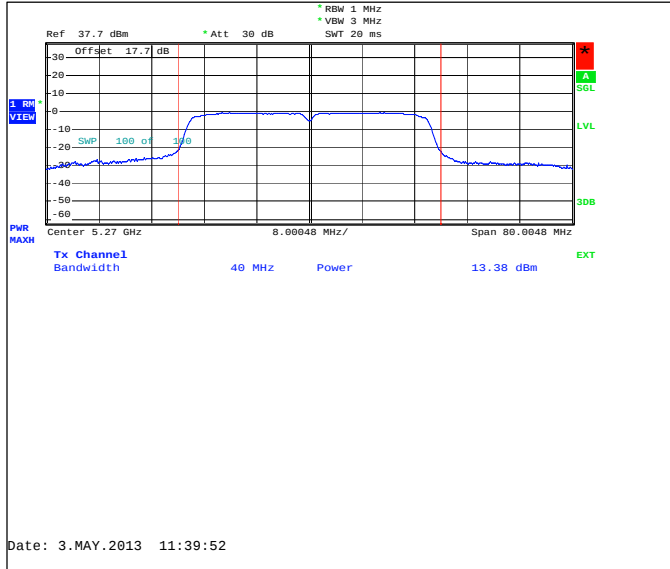
Channel 36+40 / 5190MHz



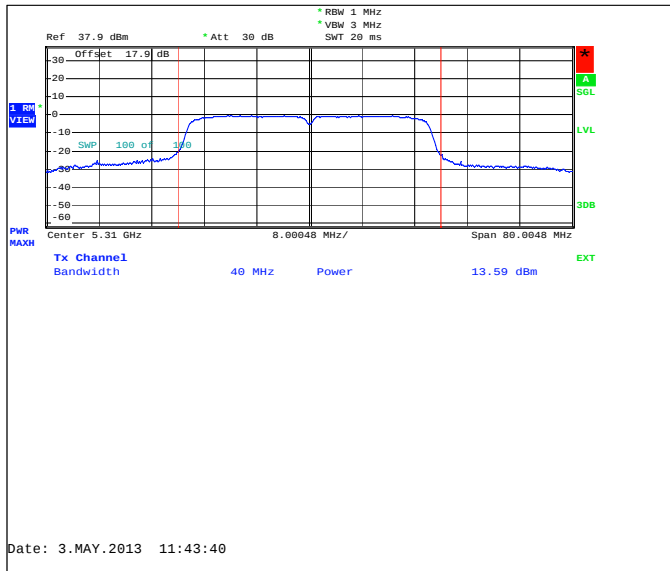
Channel 44+48 / 5230MHz



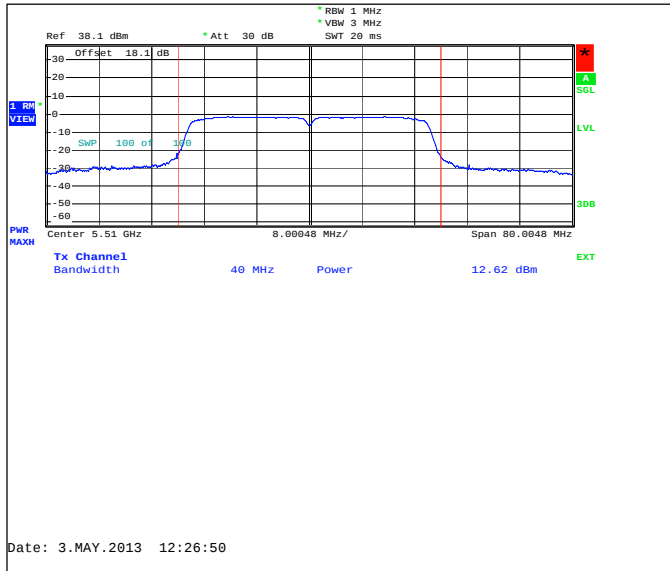
Channel 52+56 / 5270MHz



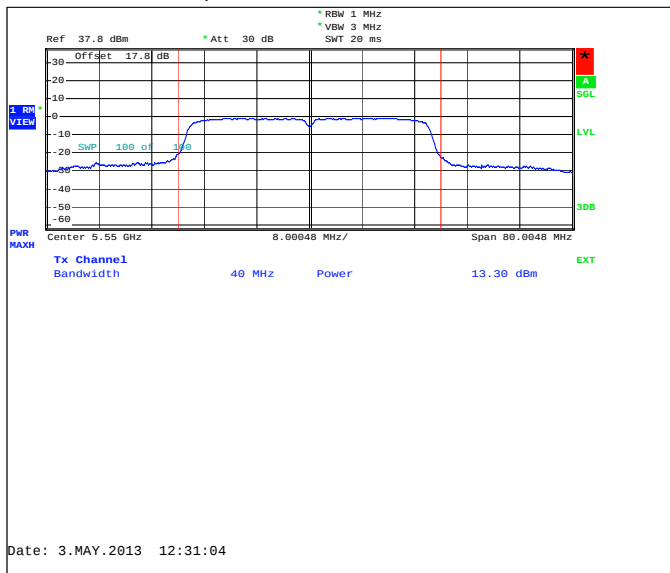
Channel 60+64 / 5310MHz



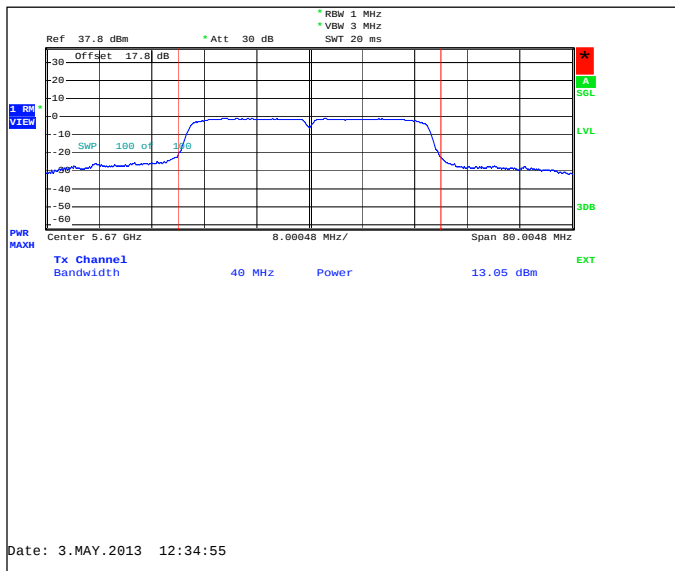
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



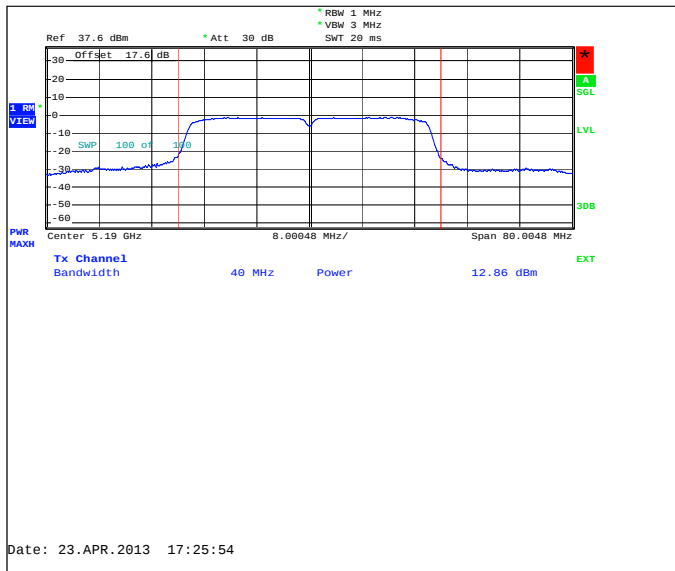
Channel 132+136 / 5670MHz



2.4.18 802.11n mode, QPSK modulation, 27.0 / 30.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	12.86	19.32	PASSED

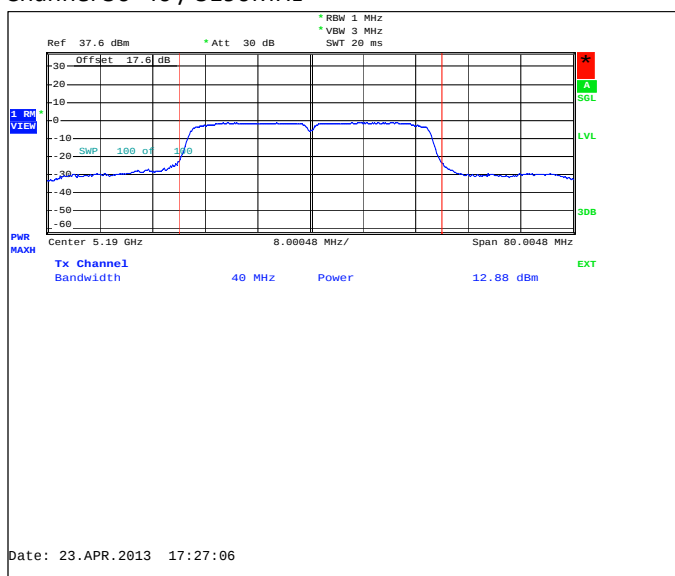
Channel 36+40 / 5190MHz



2.4.19 802.11n mode, QPSK modulation, 40.5 / 45.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	12.88	19.409	PASSED

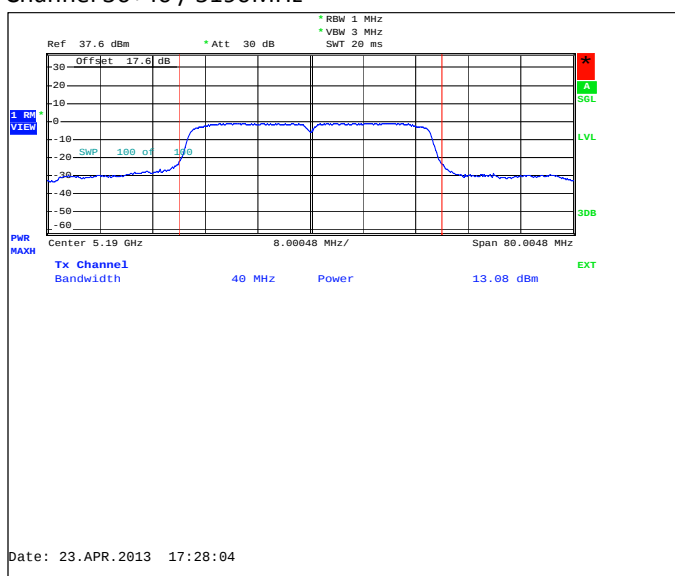
Channel 36+40 / 5190MHz



2.4.20 802.11n mode, 16QAM modulation, 54.0 / 60.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	13.08	20.324	PASSED

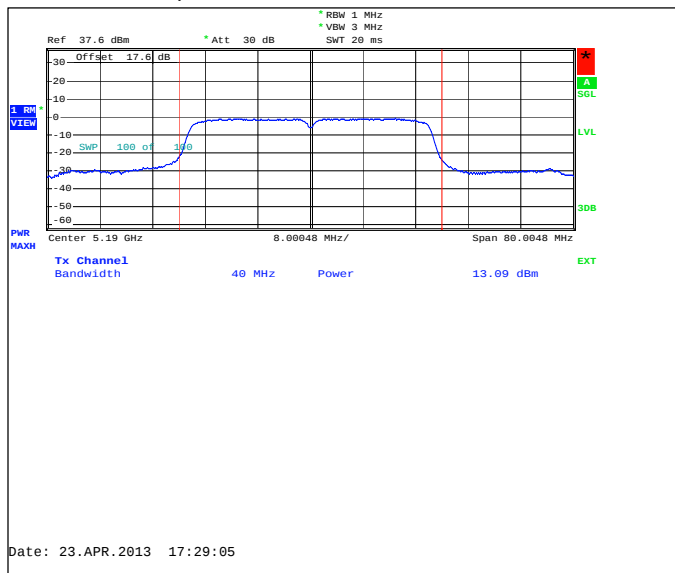
Channel 36+40 / 5190MHz



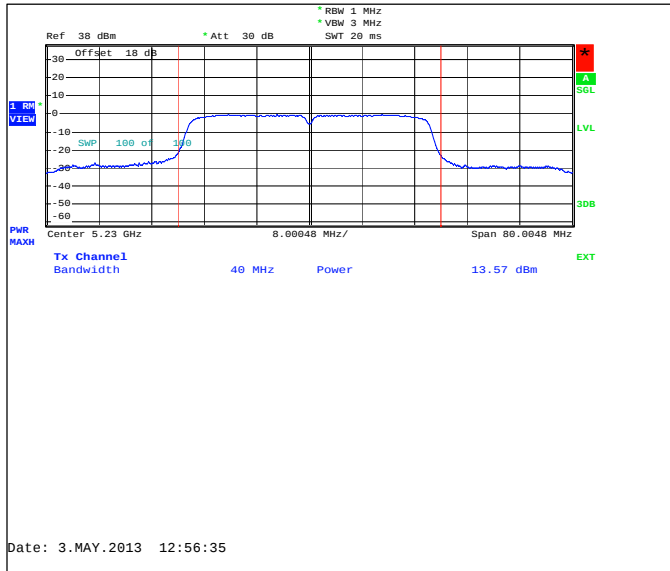
2.4.21 802.11n mode, 16QAM modulation, 81.0 / 90.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	13.09	20.37	PASSED
44+48 / 5230	13.57	22.751	PASSED
52+56 / 5270	13.27	21.232	PASSED
60+64 / 5310	13.78	23.878	PASSED
100+104 / 5510	12.87	19.364	PASSED
108+112 / 5550	13.51	22.439	PASSED
132+136 / 5670	13.29	21.33	PASSED

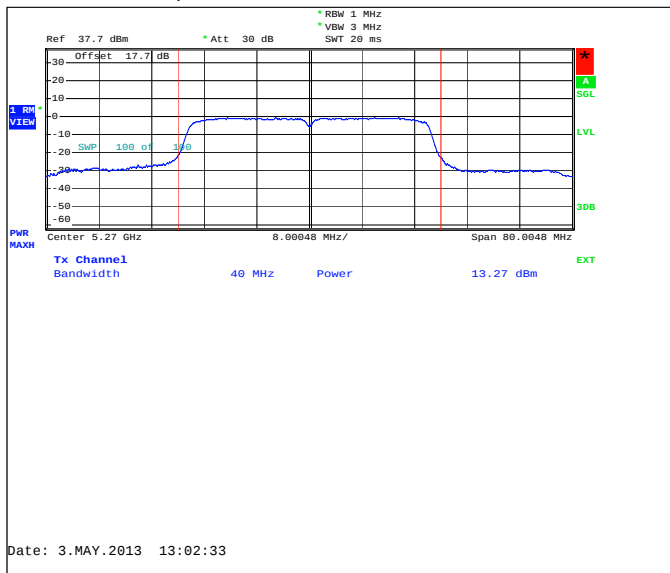
Channel 36+40 / 5190MHz



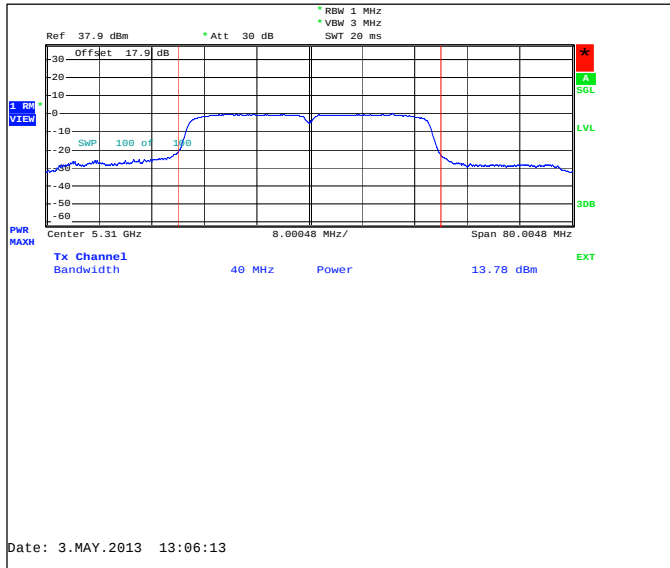
Channel 44+48 / 5230MHz



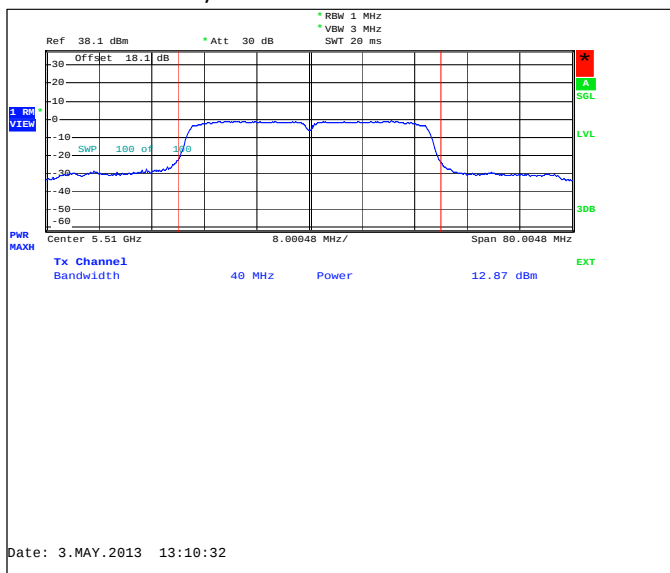
Channel 52+56 / 5270MHz



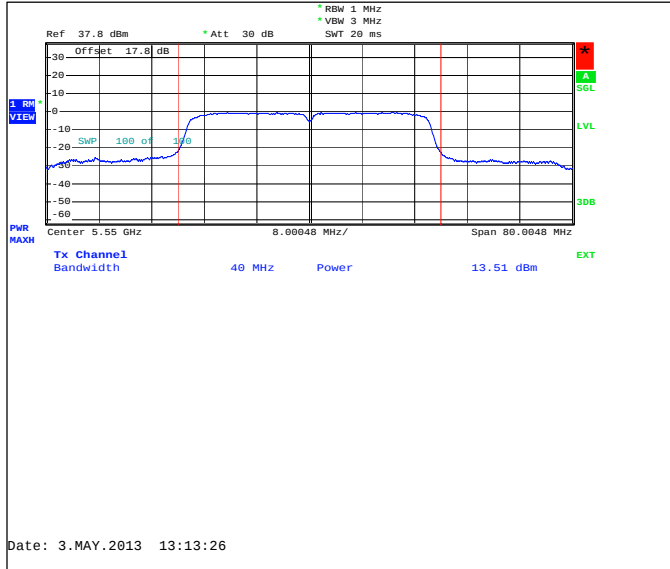
Channel 60+64 / 5310MHz



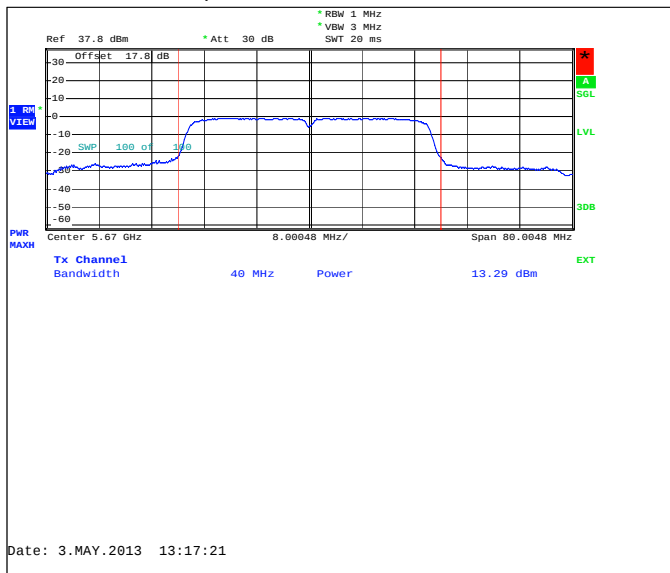
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



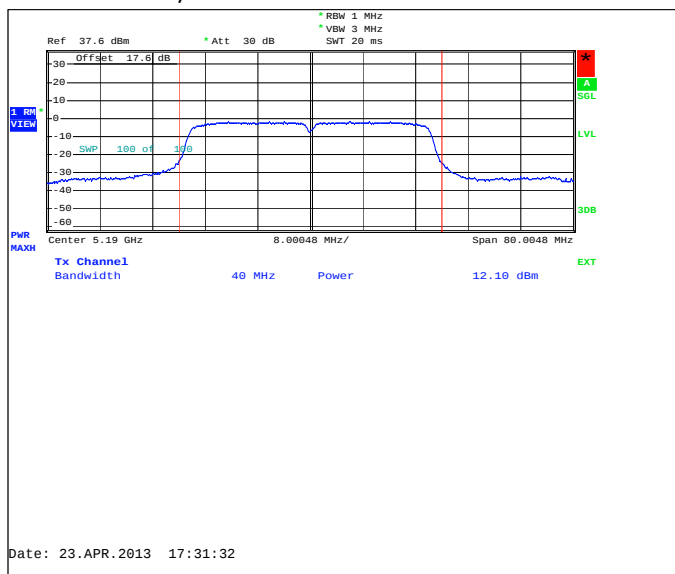
Channel 132+136 / 5670MHz



2.4.22 802.11n mode, 64QAM modulation, 108.0 / 120.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	12.1	16.218	PASSED

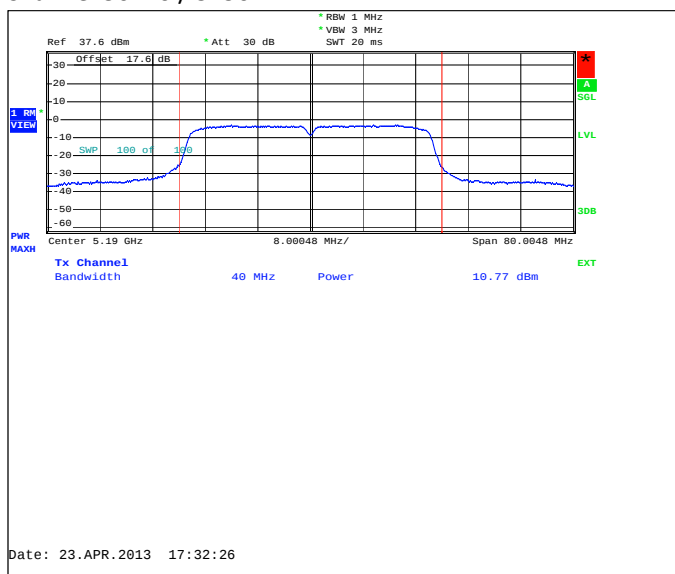
Channel 36+40 / 5190MHz



2.4.23 802.11n mode, 64QAM modulation, 121.5 / 135.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	10.77	11.94	PASSED

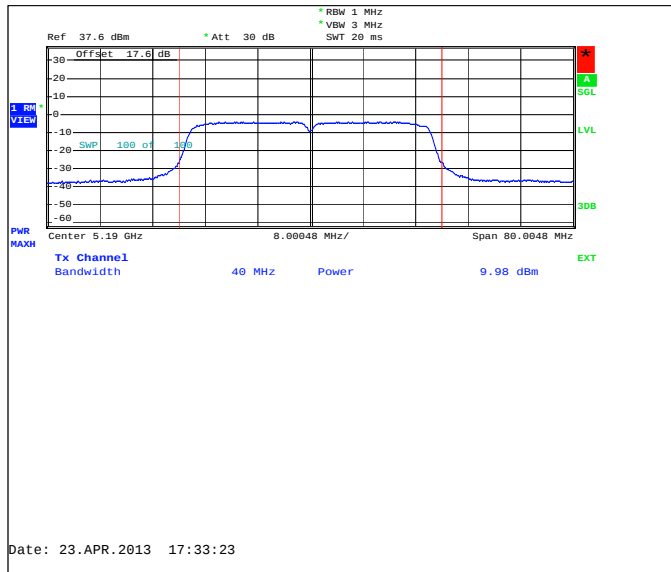
Channel 36+40 / 5190MHz



2.4.24 802.11n mode, 64QAM modulation, 135.0 / 150.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	9.98	9.954	PASSED

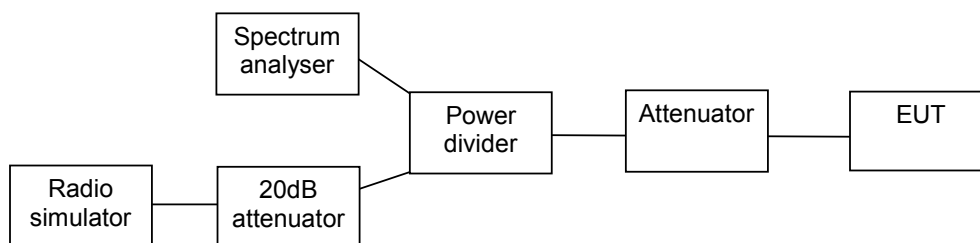
Channel 36+40 / 5190MHz



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

EUT with DUT number	RM-892, DUT 17329
Accessories with DUT numbers	WH-208, DUT 17347
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 30 / 102
Date of measurements	02-May-2013
Measured by	Jari Keto

3.1. Test Setup



3.2. Test method and limit

The measurement is made according to Public Notice KDB 789033 D01 and IC standard RSS-210.

Limits for peak excursion measurements

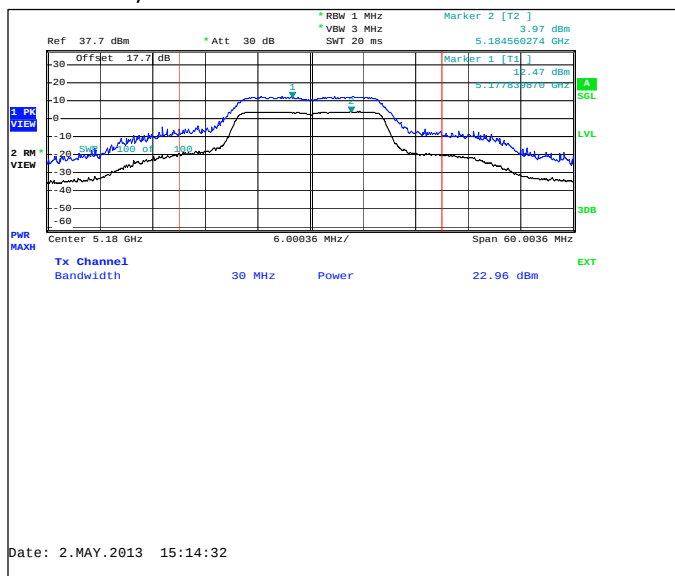
Limit [dB]
<= 13

3.3. 5 GHz RLAN Test results

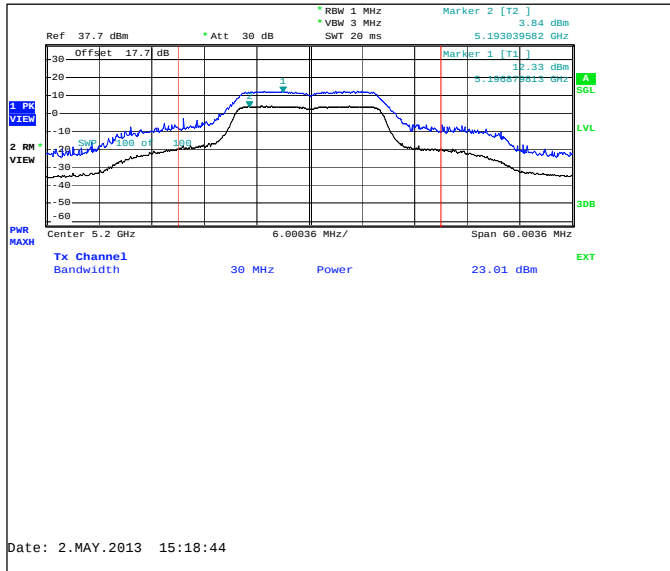
3.3.1 802.11g mode, BPSK modulation, 6 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36 / 5180	8.5	PASSED
40 / 5200	8.49	PASSED
48 / 5240	8.47	PASSED
52 / 5260	8.33	PASSED
60 / 5300	8.67	PASSED
64 / 5320	8.69	PASSED
100 / 5500	8.97	PASSED
116 / 5580	8.36	PASSED
140 / 5700	8.65	PASSED

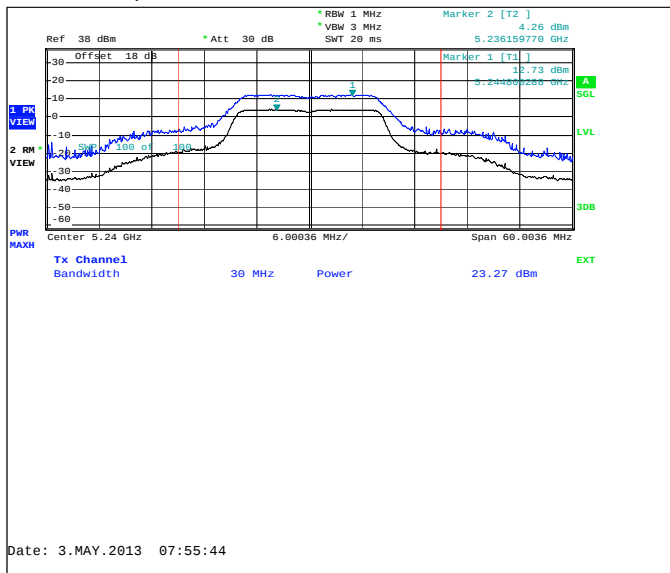
Channel 36 / 5180MHz



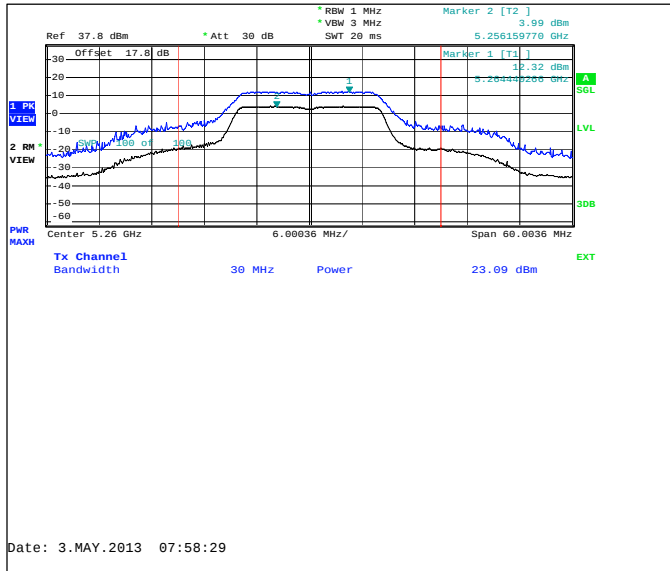
Channel 40 / 5200MHz



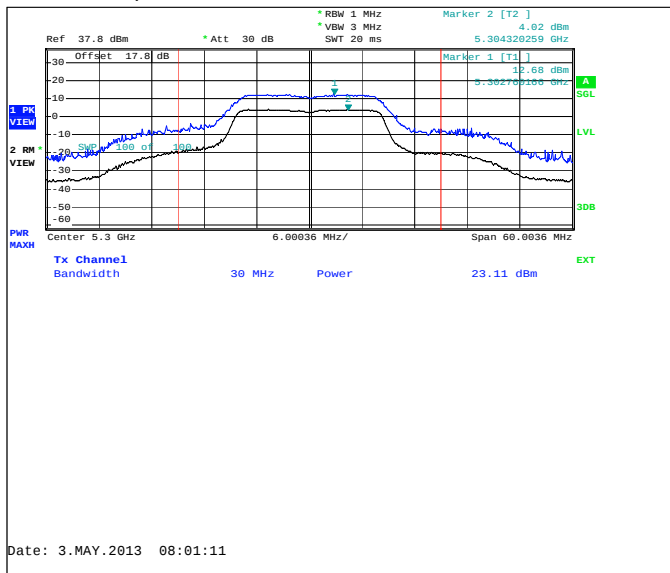
Channel 48 / 5240MHz



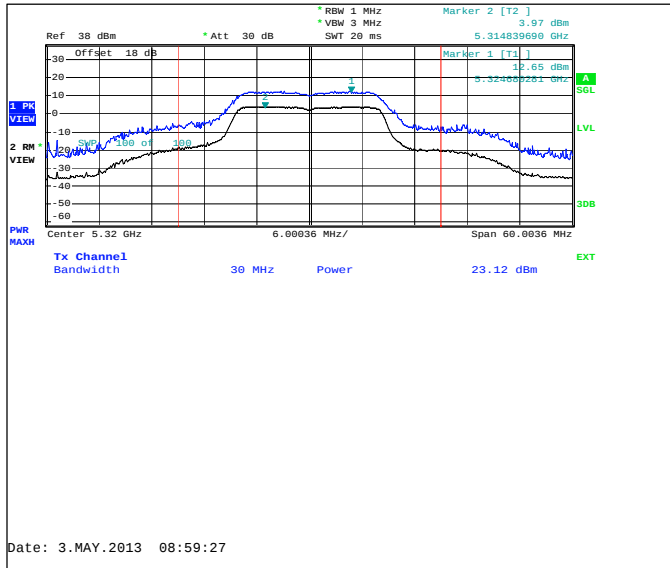
Channel 52 / 5260MHz



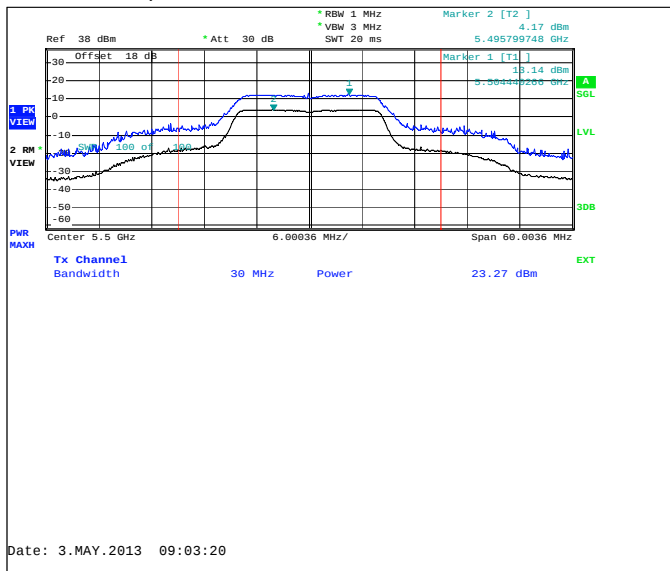
Channel 60 / 5300MHz



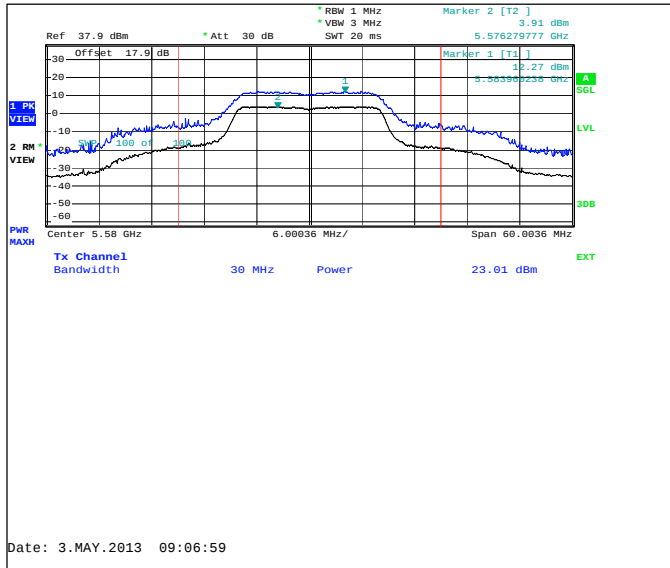
Channel 64 / 5320MHz



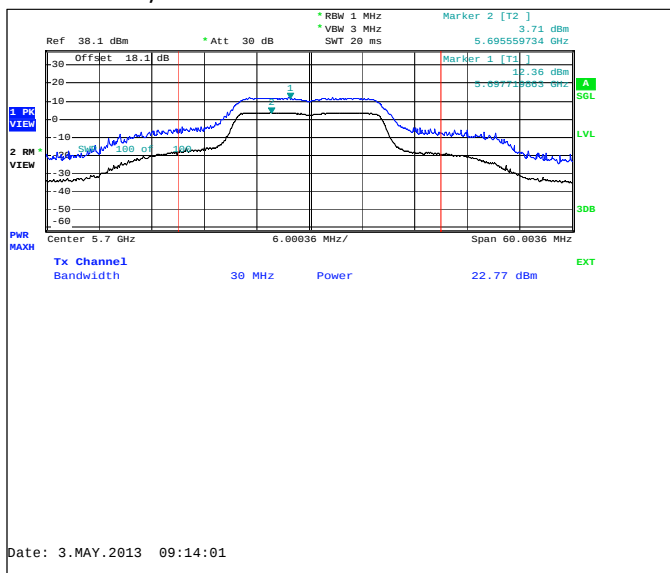
Channel 100 / 5500MHz



Channel 116 / 5580MHz



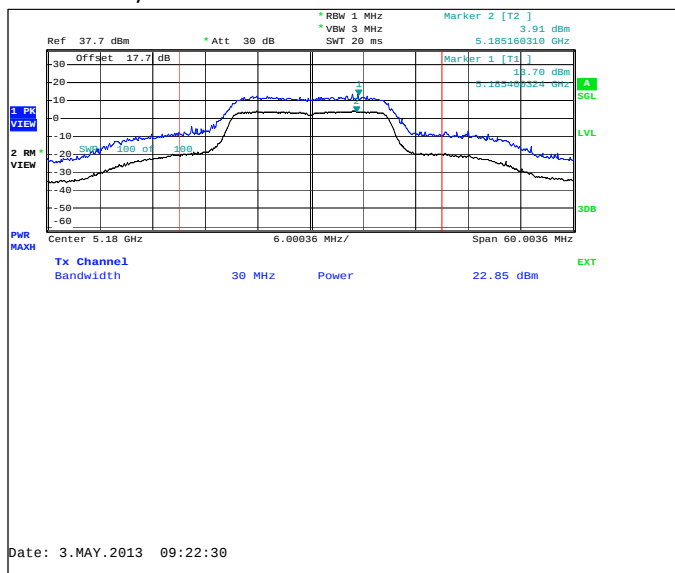
Channel 140 / 5700MHz



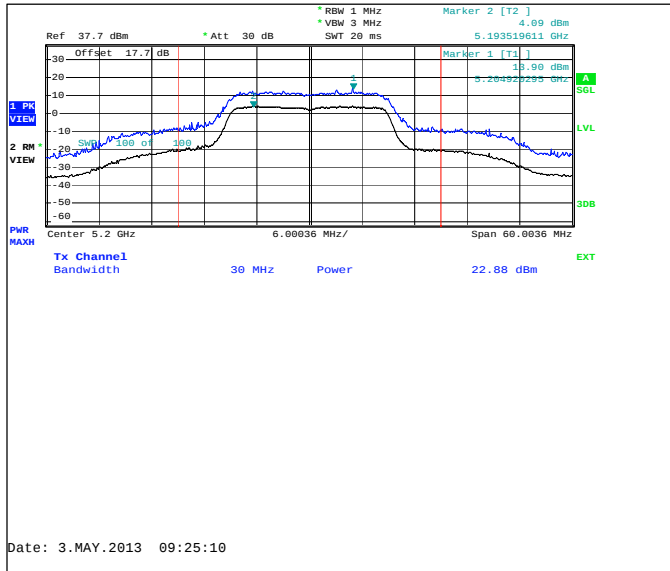
3.3.2 802.11n mode, QPSK modulation, 19.5 / 21.7 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36 / 5180	9.78	PASSED
40 / 5200	9.81	PASSED
48 / 5240	9.08	PASSED
52 / 5260	9.67	PASSED
60 / 5300	8.65	PASSED
64 / 5320	8.24	PASSED
100 / 5500	8.98	PASSED
116 / 5580	8.34	PASSED
140 / 5700	10.09	PASSED

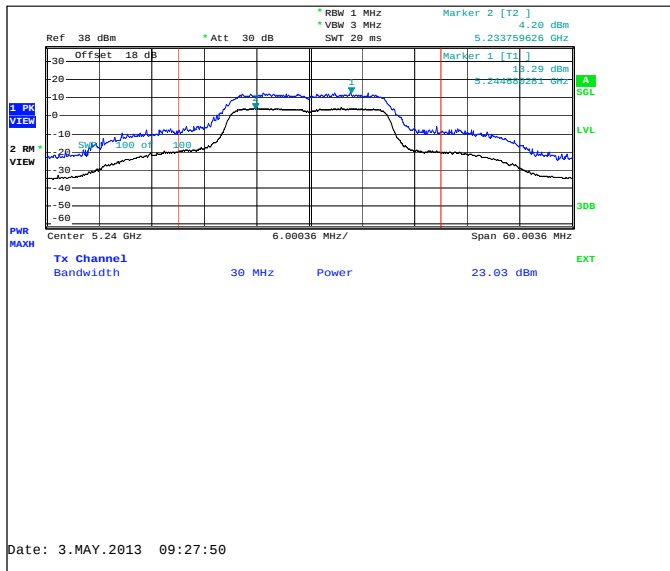
Channel 36 / 5180MHz



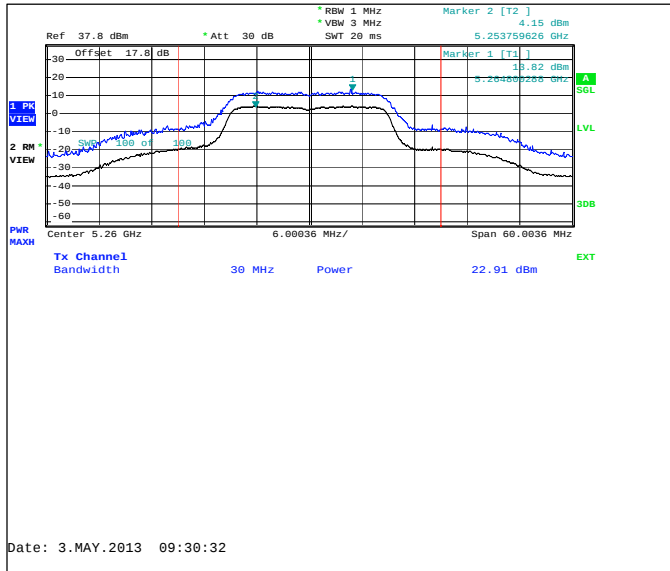
Channel 40 / 5200MHz



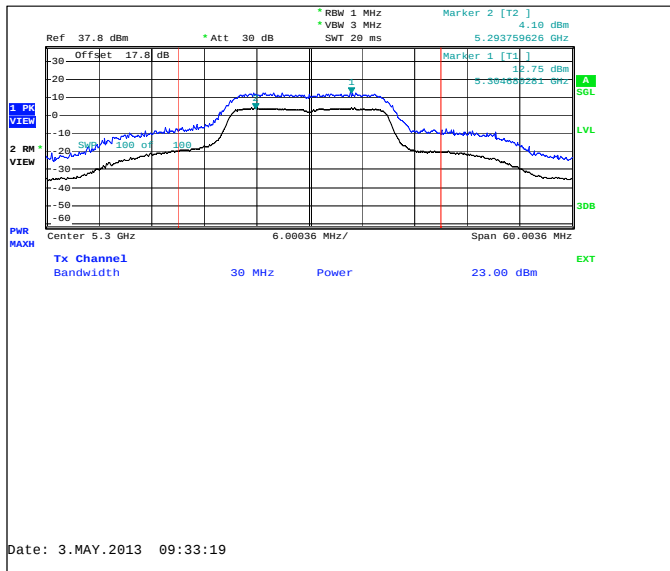
Channel 48 / 5240MHz



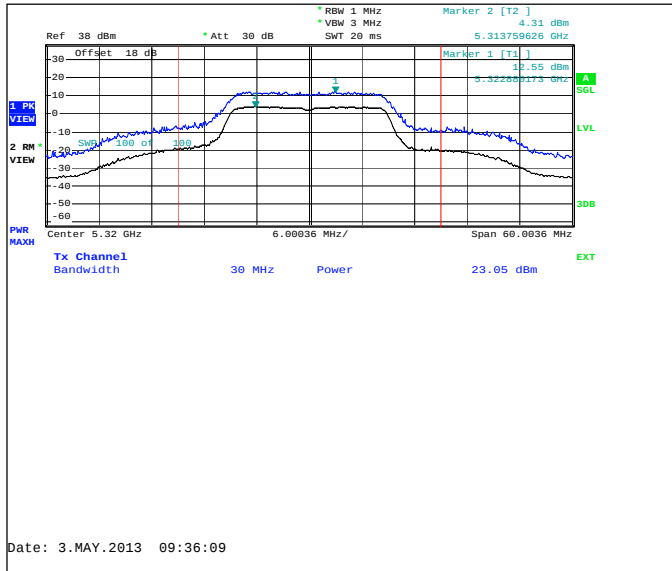
Channel 52 / 5260MHz



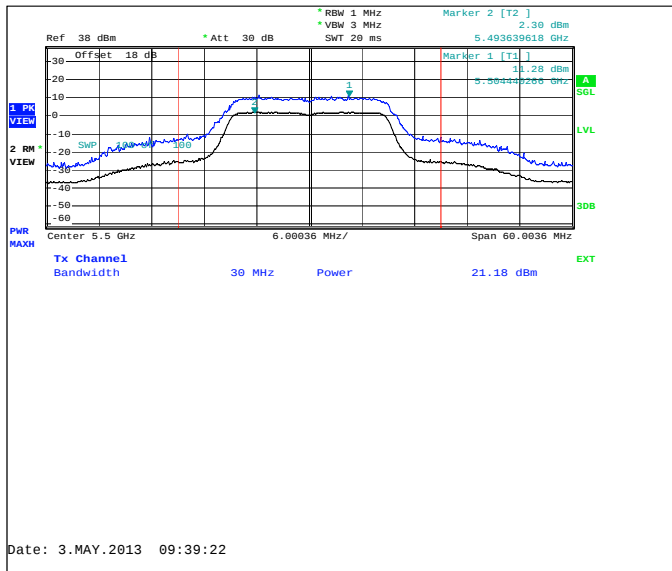
Channel 60 / 5300MHz



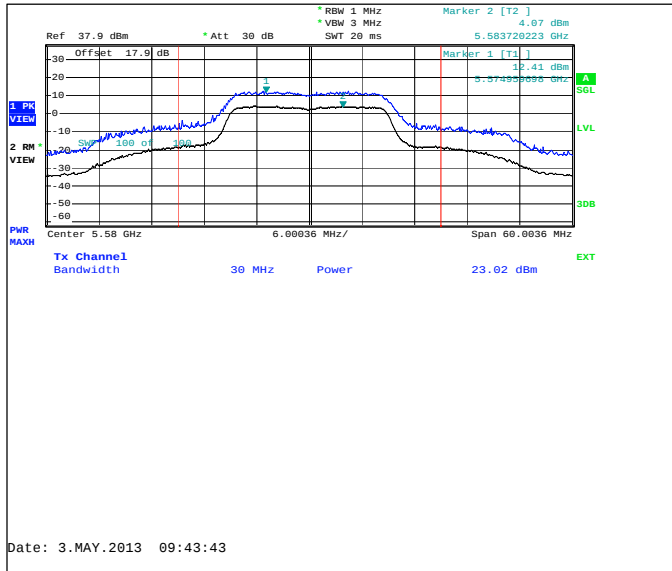
Channel 64 / 5320MHz



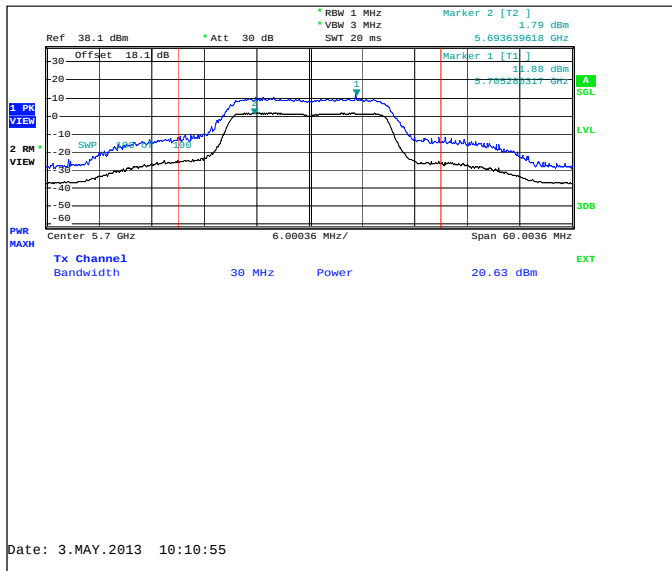
Channel 100 / 5500MHz



Channel 116 / 5580MHz



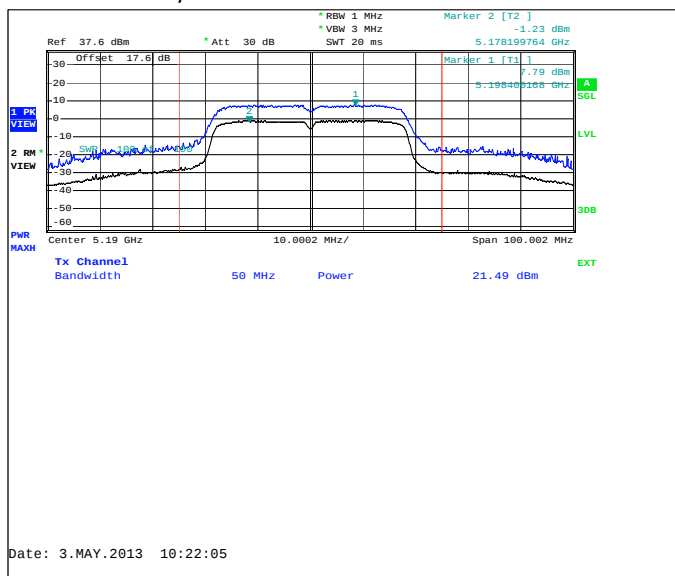
Channel 140 / 5700MHz



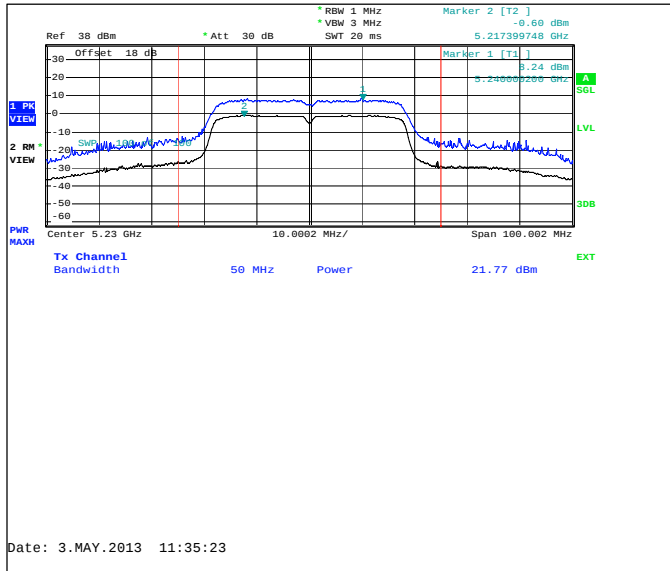
3.3.3 802.11n mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36+40 / 5190	9.02	PASSED
44+48 / 5230	8.84	PASSED
52+56 / 5270	8.94	PASSED
60+64 / 5310	8.86	PASSED
100+104 / 5510	9.05	PASSED
108+112 / 5550	8.87	PASSED
132+136 / 5670	8.83	PASSED

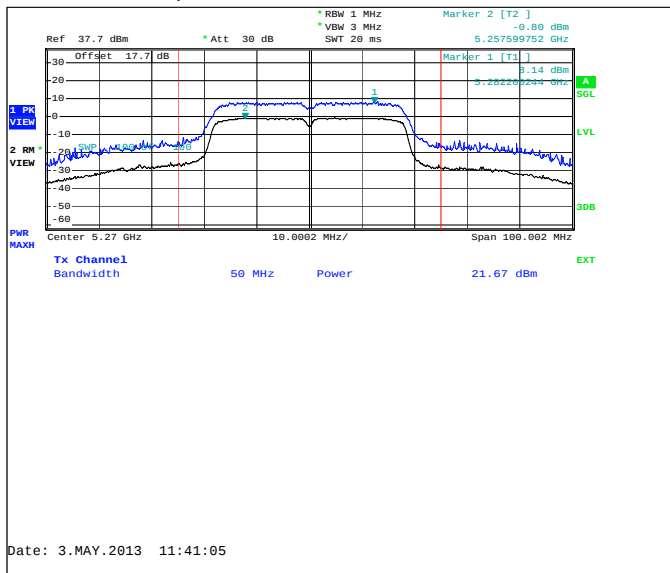
Channel 36+40 / 5190MHz



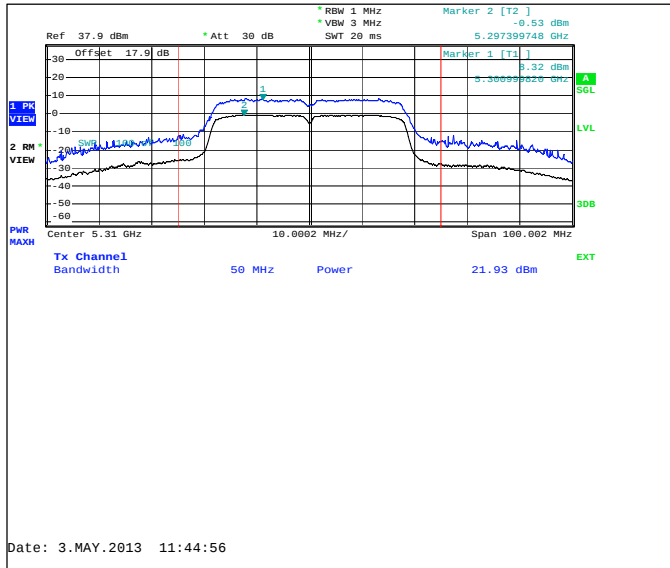
Channel 44+48 / 5230MHz



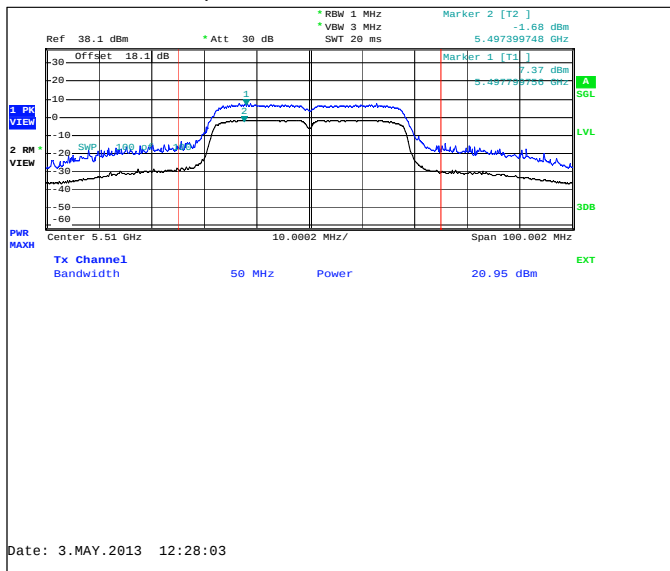
Channel 52+56 / 5270MHz



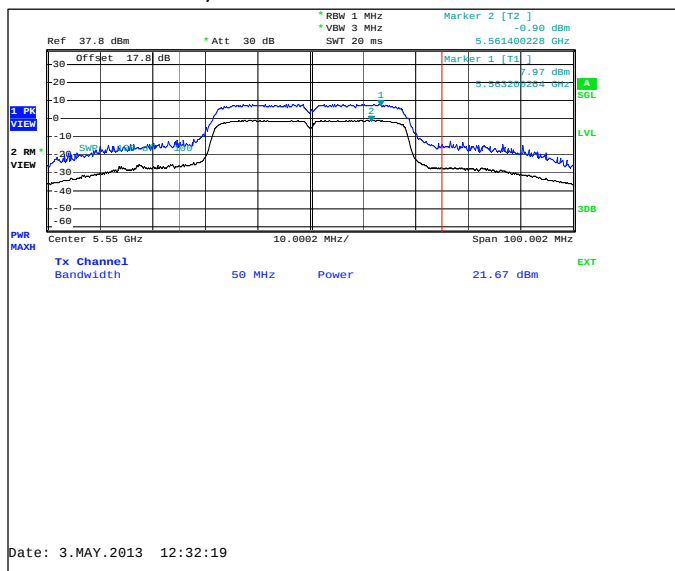
Channel 60+64 / 5310MHz



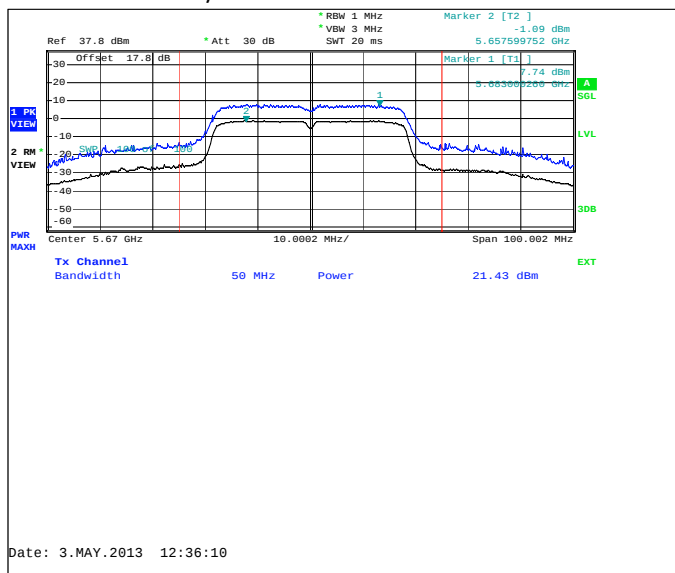
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



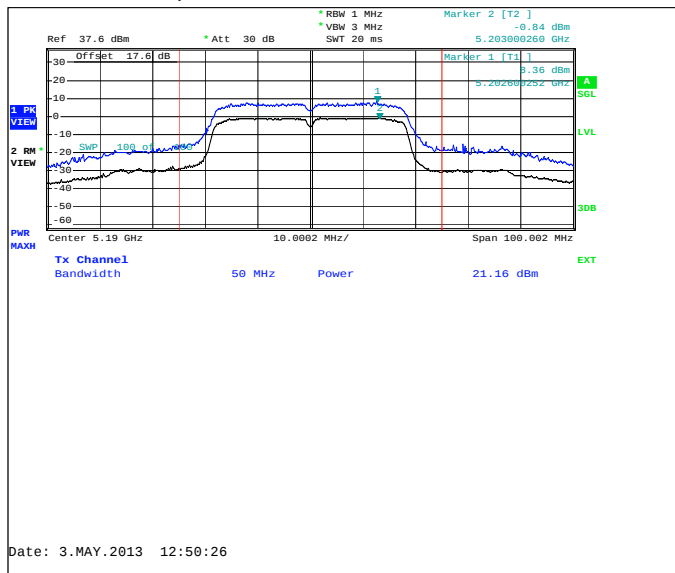
Channel 132+136 / 5670MHz



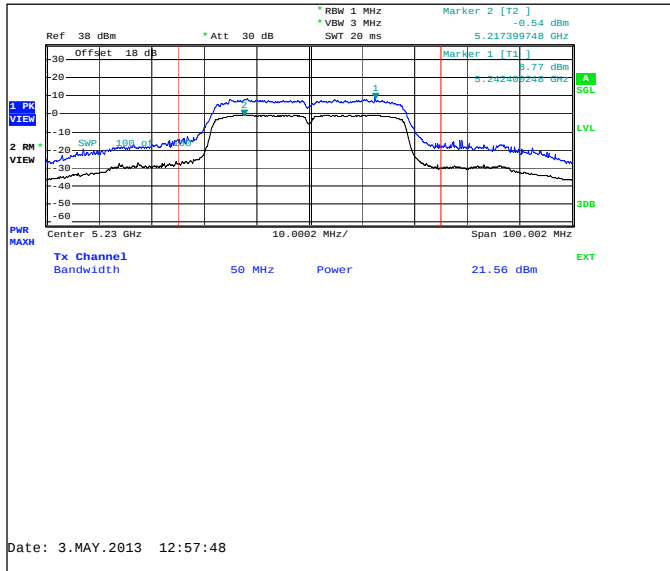
3.3.4 802.11n mode, 16QAM modulation, 81.0 / 90.0 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36+40 / 5190	9.2	PASSED
44+48 / 5230	9.3	PASSED
52+56 / 5270	8.78	PASSED
60+64 / 5310	8.46	PASSED
100+104 / 5510	8.89	PASSED
108+112 / 5550	8.34	PASSED
132+136 / 5670	9.28	PASSED

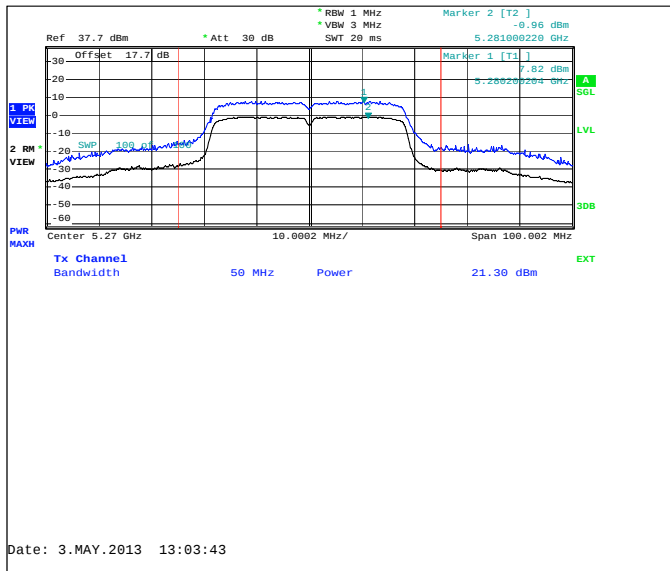
Channel 36+40 / 5190MHz



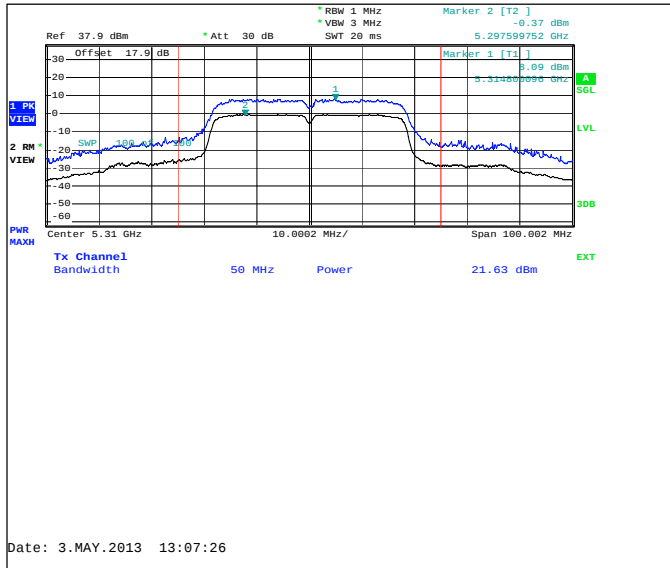
Channel 44+48 / 5230MHz



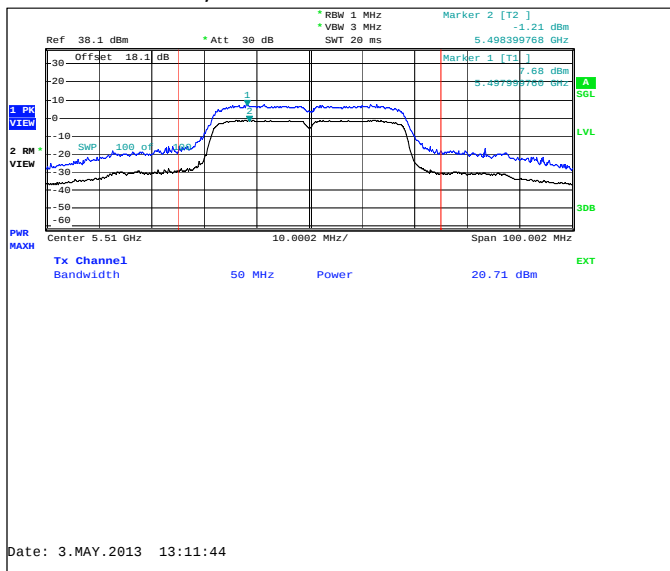
Channel 52+56 / 5270MHz



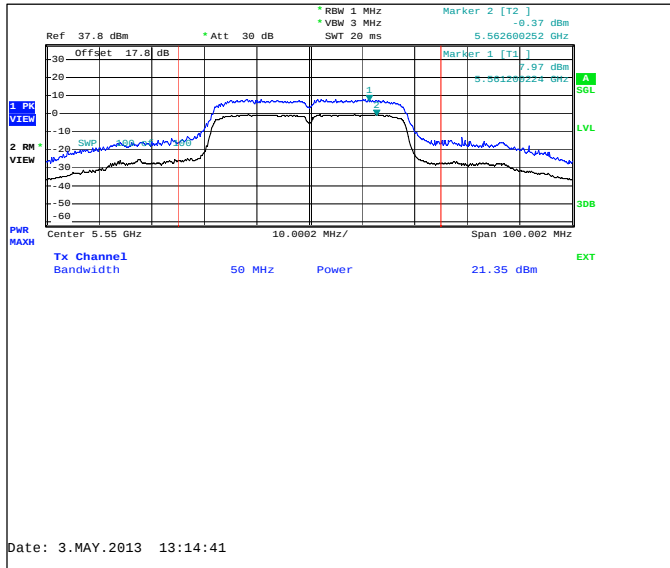
Channel 60+64 / 5310MHz



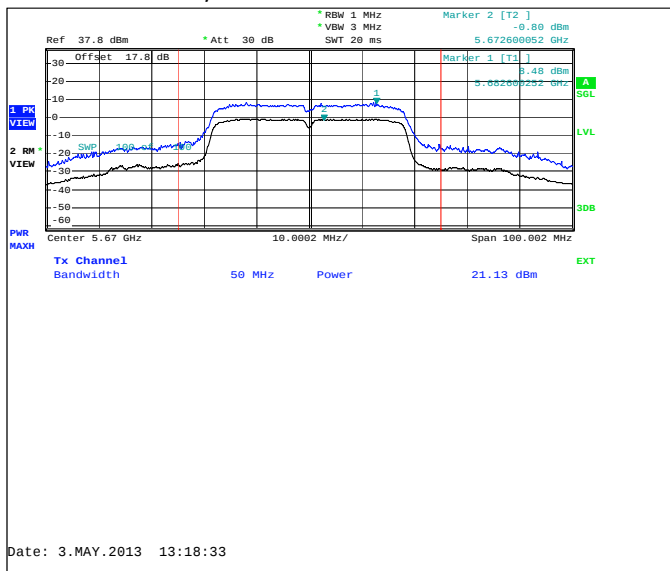
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



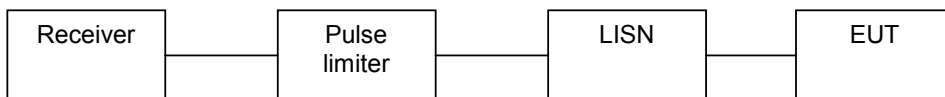
Channel 132+136 / 5670MHz



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

EUT with DUT number	RM-892, DUT 17345
Accessories with DUT numbers	BL-4YW (LG), DUT 17353 ; AC-50E, DUT 17354 ; WH-208, DUT 17355
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 34 / 102
Date of measurements	04-May-2013
Measured by	Tomi Lipponen

4.1. Test Setup



4.2. Test method and limit

FCC15E_RM-892_08.docx 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.

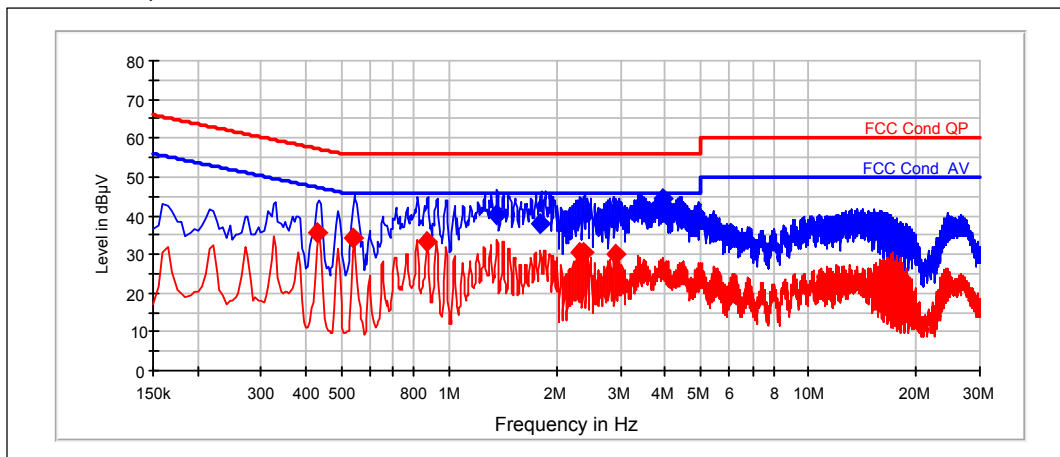
CISPR 22 Class B limits

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

4.3. 5 GHz RLAN Test results

4.3.1 OFDM mode, BPSK modulation, 6 Mbps data rate

Channel 116 / 5580MHz



QuasiPeak (RBW: 9 kHz)

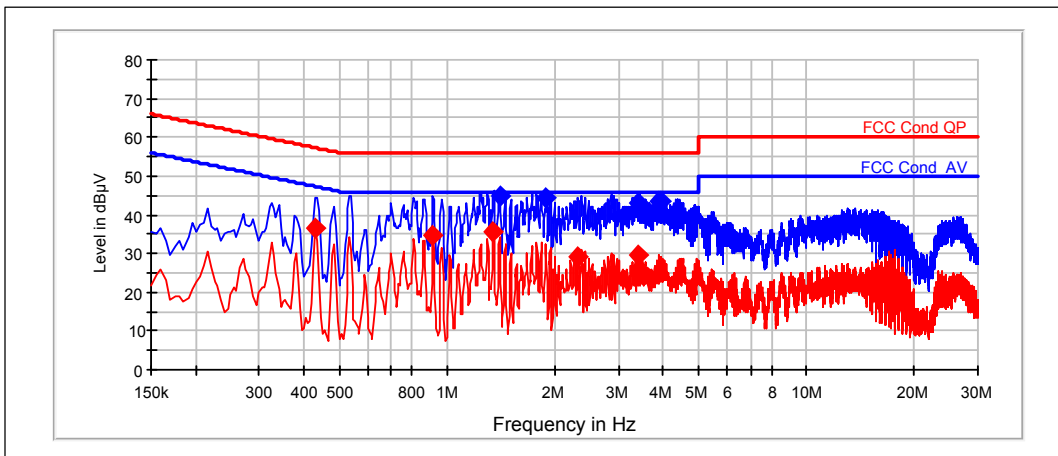
Frequency [MHz]	U [dBμV]	Line	Result
1.36	40.25	L1	PASSED
1.795	37.88	L1	PASSED
3.935	44.41	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.43	35.83	L1	PASSED
0.54	34.25	L1	PASSED
0.865	33.3	L1	PASSED
2.32	30.44	L1	PASSED
2.37	30.51	L1	PASSED
2.91	30.2	L1	PASSED

4.3.2 n-mode, 20 MHz CBW mode, QPSK modulation, 19.5 / 21.7 Mbps data rate

Channel 116 / 5580MHz



QuasiPeak (RBW: 9 kHz)

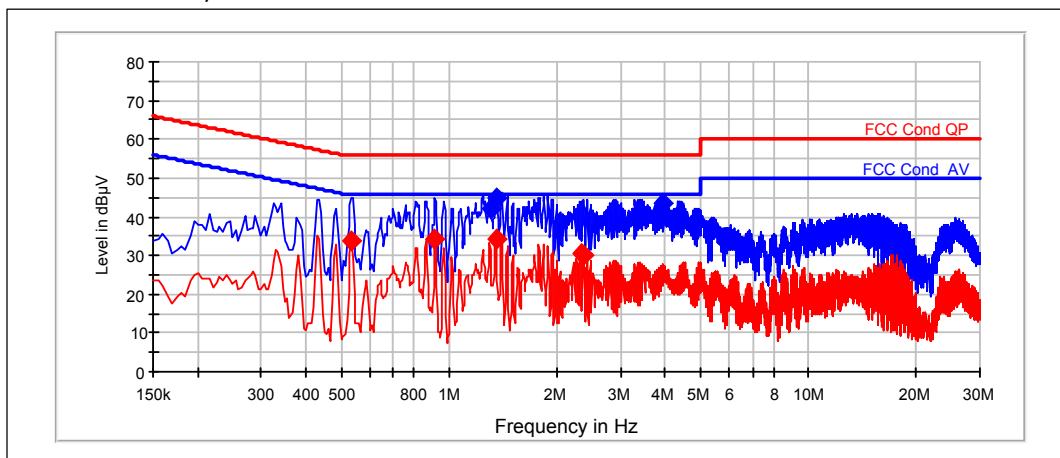
Frequency [MHz]	U [dBμV]	Line	Result
1.4	44.95	L1	PASSED
1.885	44.33	L1	PASSED
3.395	42.98	L1	PASSED
3.87	43.35	L1	PASSED
3.92	43.66	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.43	36.41	L1	PASSED
0.915	34.85	L1	PASSED
1.345	35.48	L1	PASSED
2.315	29.05	L1	PASSED
3.395	29.38	L1	PASSED

4.3.3 n-mode, 40 MHz CBW mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

Channel 108+112 / 5550MHz



QuasiPeak (RBW: 9 kHz)

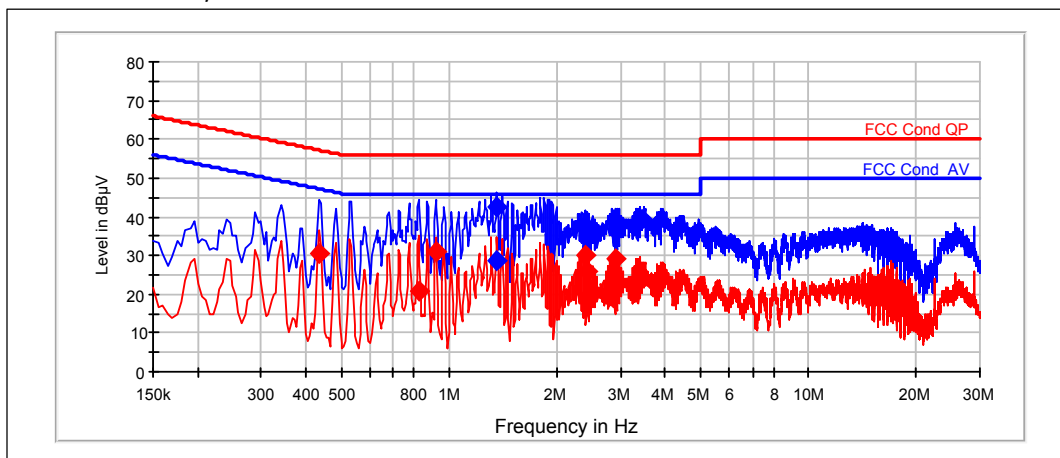
Frequency [MHz]	U [dBμV]	Line	Result
1.31	41.9	L1	PASSED
1.355	44.88	L1	PASSED
3.92	43.62	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.535	33.87	L1	PASSED
0.915	34.25	L1	PASSED
1.35	34.4	L1	PASSED
2.325	30.51	L1	PASSED
2.37	29.84	L1	PASSED

4.3.4 n-mode, 40 MHz CBW mode, 16-QAM modulation, 81.0 / 90.0 Mbps data rate

Channel 108+112 / 5550MHz



QuasiPeak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
1.355	42.61	L1	PASSED
1.36	28.56	L1	PASSED
2.915	38.64	L1	PASSED
3.435	39.19	L1	PASSED

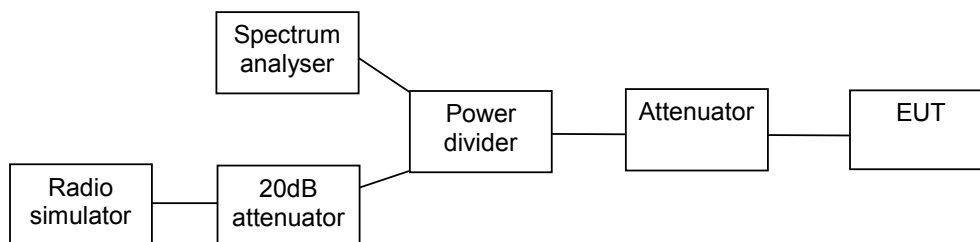
Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.435	30.58	L1	PASSED
0.825	20.86	L1	PASSED
0.92	30.84	L1	PASSED
2.4	30.07	L1	PASSED
2.425	25.96	L1	PASSED
2.915	28.92	L1	PASSED

5. 26 dB bandwidth

EUT with DUT number	RM-892, DUT 17329
Accessories with DUT numbers	WH-208, DUT 17347
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 30 / 102
Date of measurements	02-May-2013
Measured by	Jari Keto

5.1. Test Setup



5.2. Test method and limit

The measurement is made according to Public Notice KDB 789033 D01 and IC standard RSS-210.

Limits for 26 dB bandwidth measurements

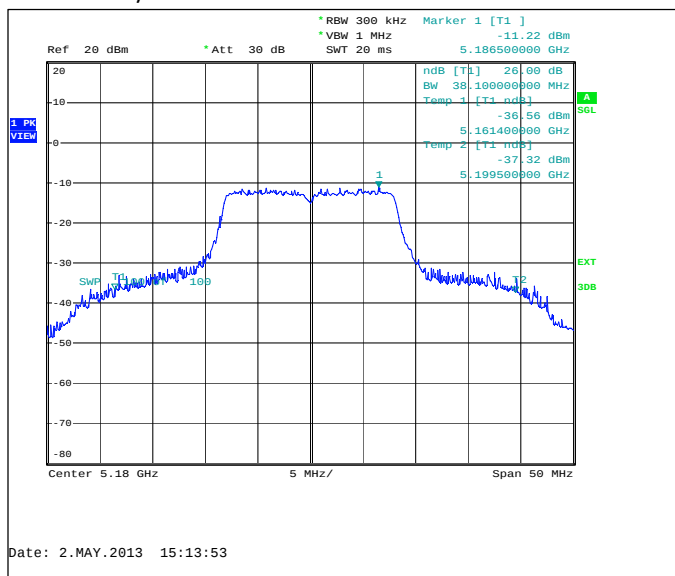
Limit [kHz]
No limit

5.3. 5 GHz RLAN Test results

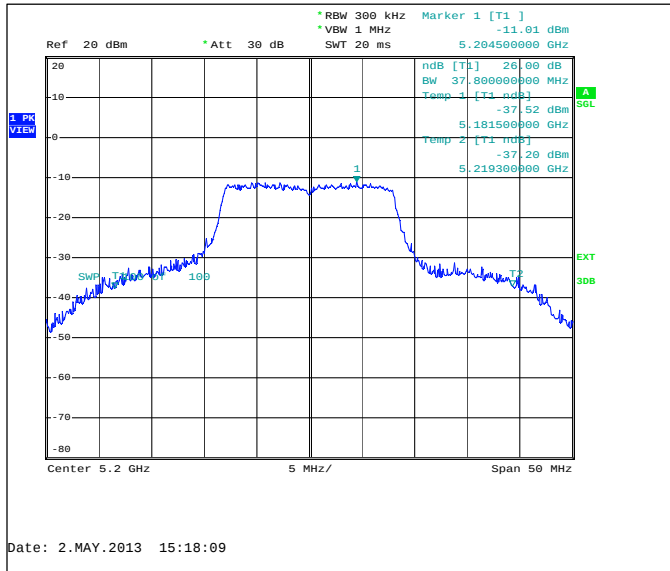
5.3.1 802.11g mode, BPSK modulation, 6 Mbps data rate

Channel / f _c [MHz]	26 dB bandwidth [kHz]	Result
36 / 5180	38100	PASSED
40 / 5200	37800	PASSED
48 / 5240	38100	PASSED
52 / 5260	39100	PASSED
60 / 5300	37100	PASSED
64 / 5320	38100	PASSED
100 / 5500	40500	PASSED
116 / 5580	39700	PASSED
140 / 5700	40400	PASSED

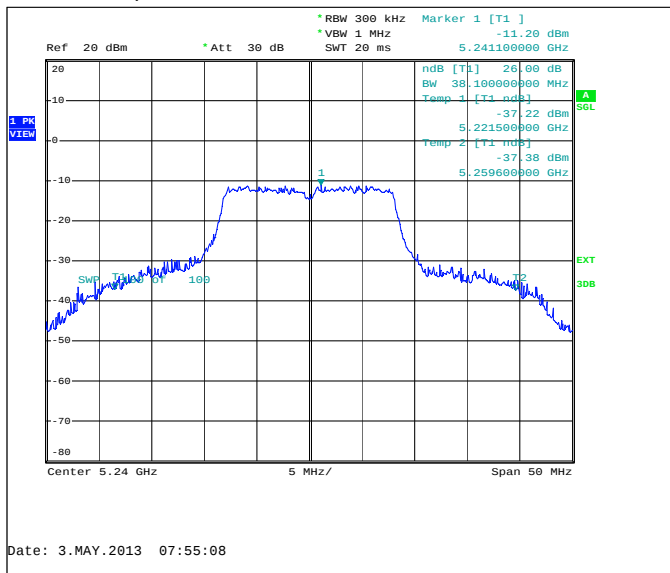
Channel 36 / 5180MHz



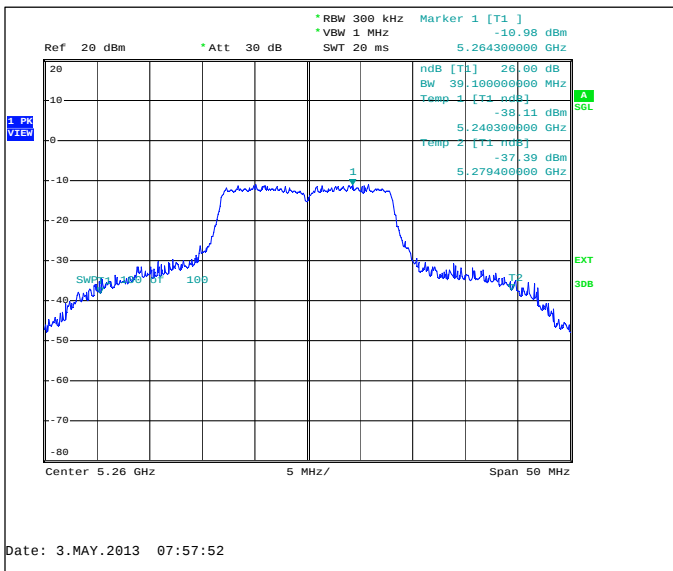
Channel 40 / 5200MHz



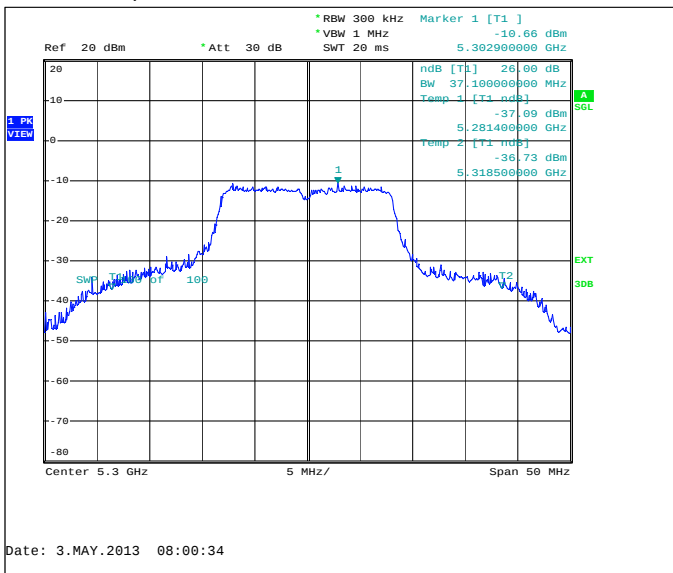
Channel 48 / 5240MHz



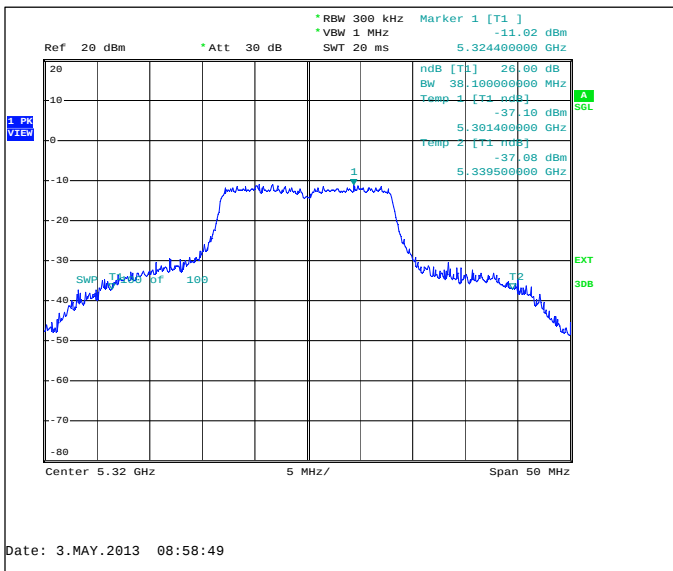
Channel 52 / 5260MHz



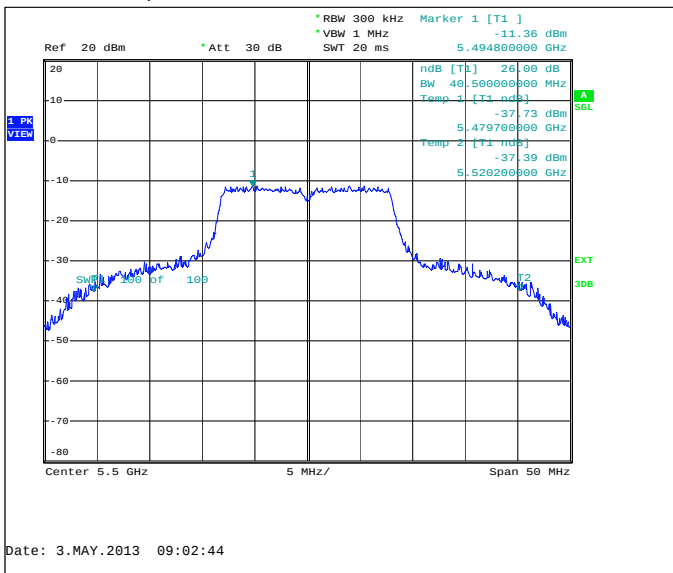
Channel 60 / 5300MHz



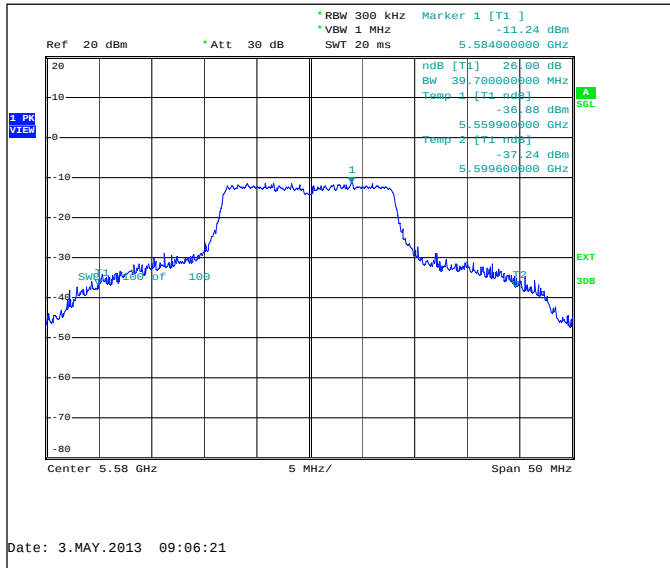
Channel 64 / 5320MHz



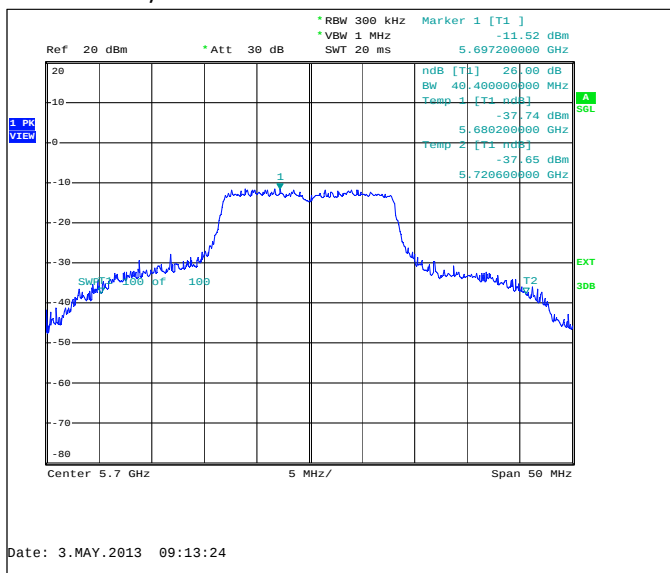
Channel 100 / 5500MHz



Channel 116 / 5580MHz



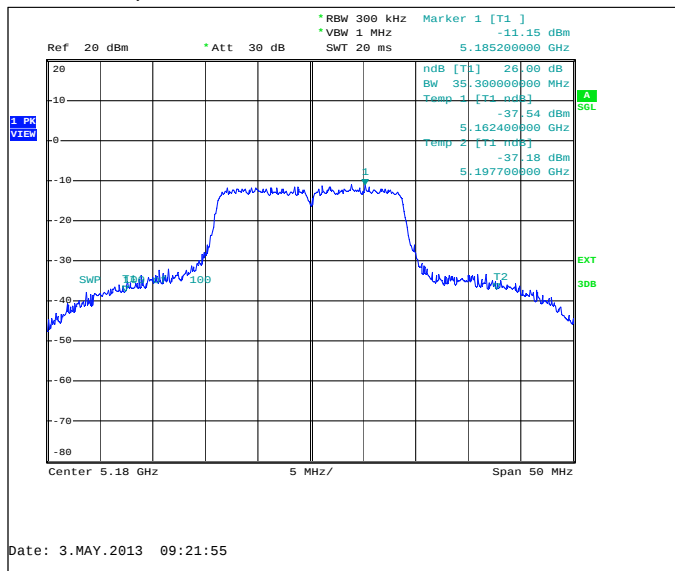
Channel 140 / 5700MHz



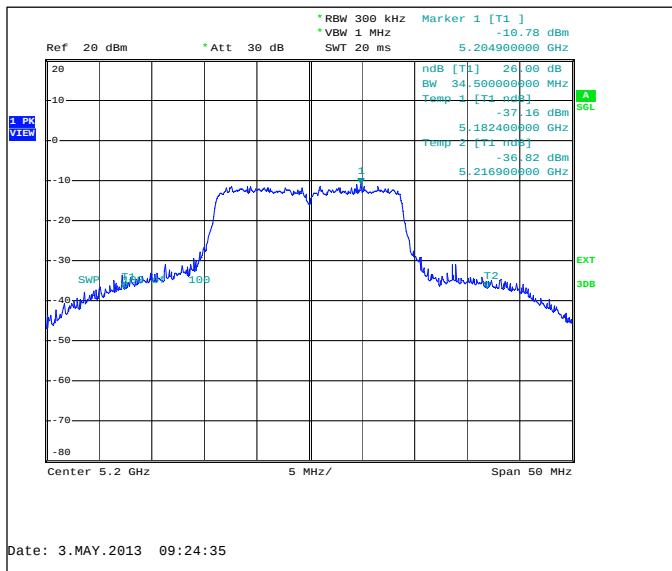
5.3.2 802.11n mode, QPSK modulation, 19.5 / 21.7 Mbps data rate

Channel / f _c [MHz]	26 dB bandwidth [kHz]	Result
36 / 5180	35300	PASSED
40 / 5200	34500	PASSED
48 / 5240	37500	PASSED
52 / 5260	38300	PASSED
60 / 5300	35600	PASSED
64 / 5320	35000	PASSED
100 / 5500	24700	PASSED
116 / 5580	38900	PASSED
140 / 5700	25200	PASSED

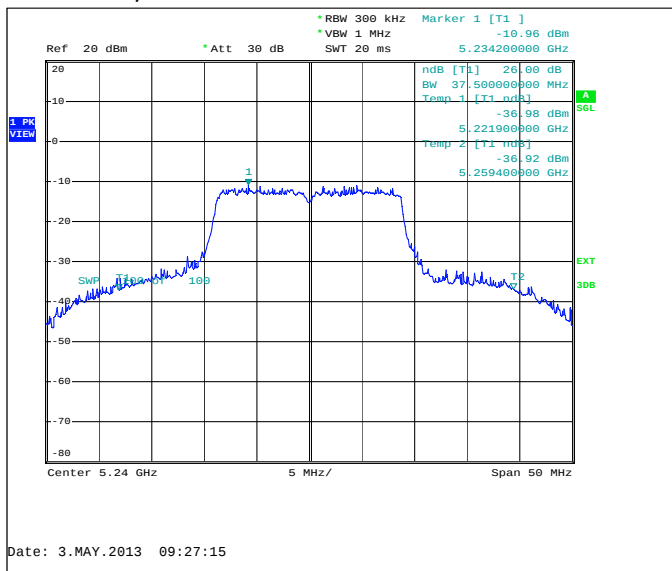
Channel 36 / 5180MHz



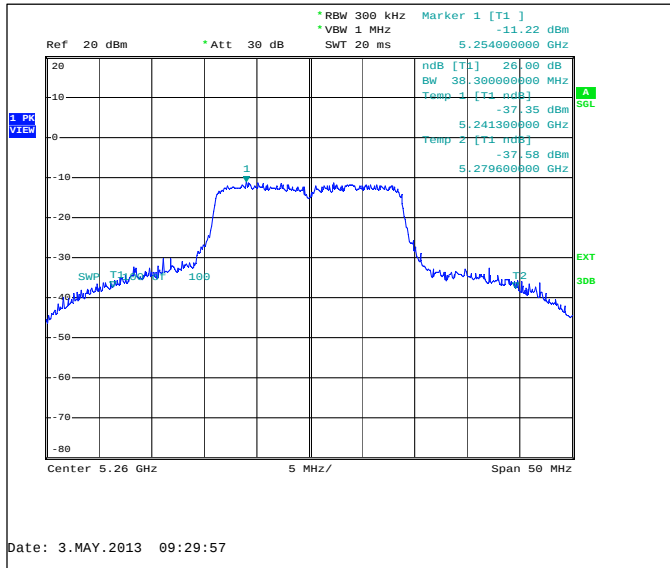
Channel 40 / 5200MHz



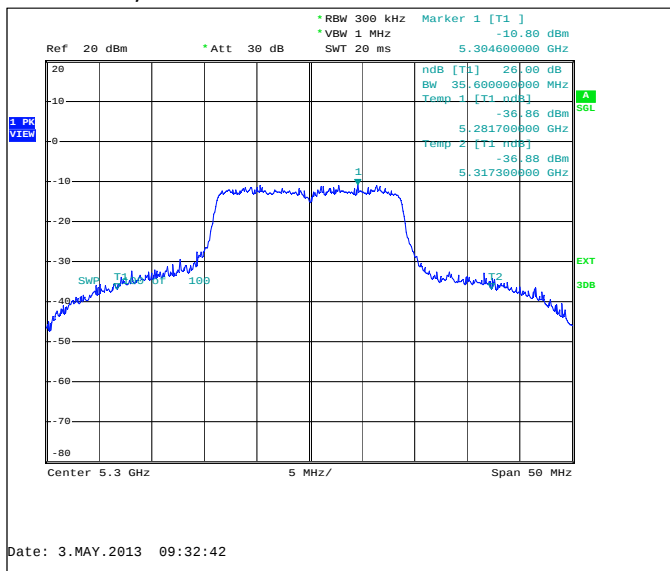
Channel 48 / 5240MHz



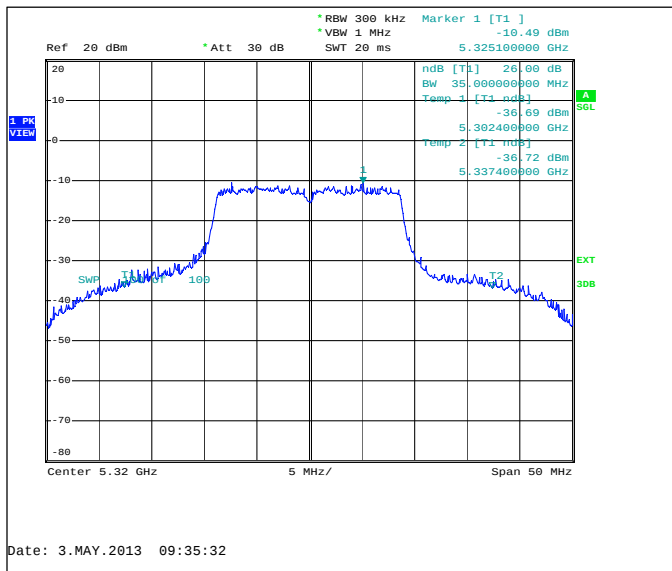
Channel 52 / 5260MHz



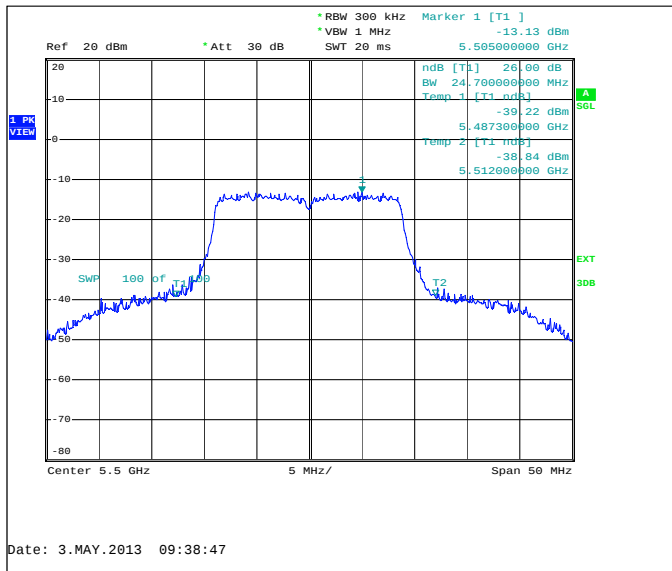
Channel 60 / 5300MHz



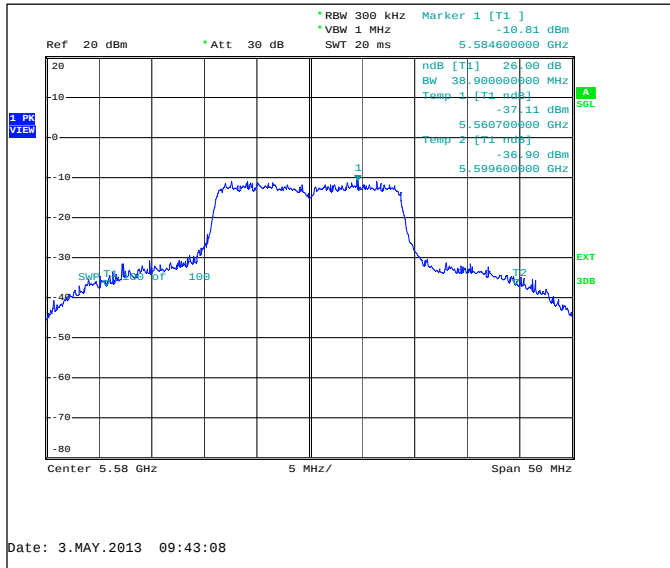
Channel 64 / 5320MHz



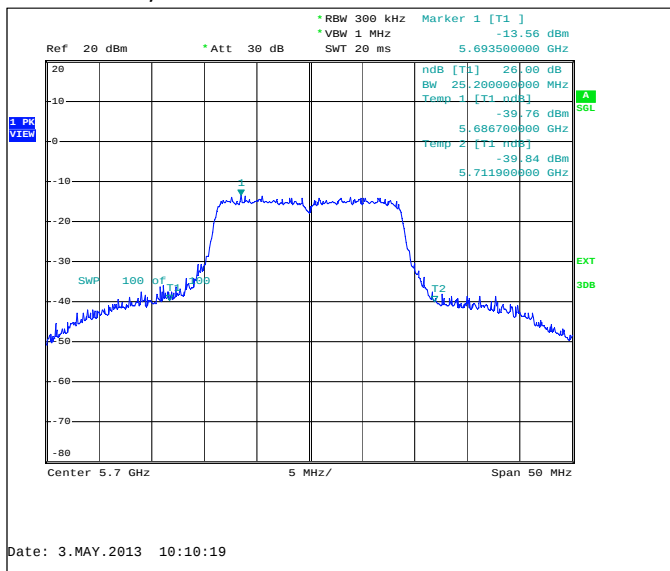
Channel 100 / 5500MHz



Channel 116 / 5580MHz



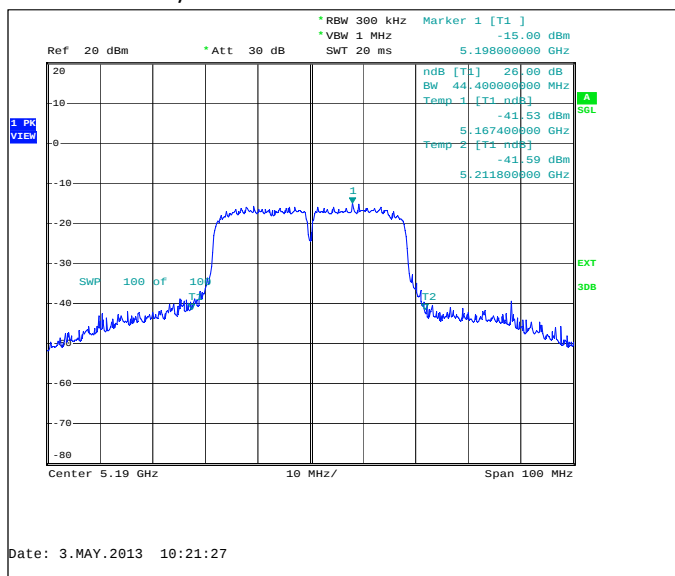
Channel 140 / 5700MHz



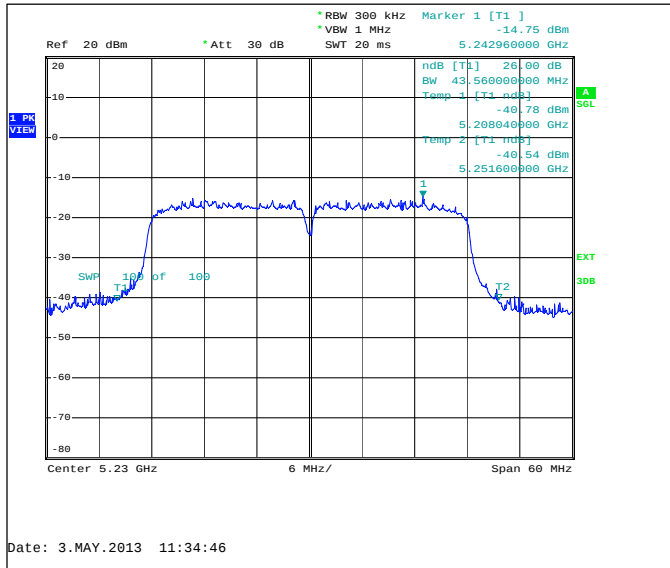
5.3.3 802.11n mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

Channel / f _c [MHz]	26 dB bandwidth [kHz]	Result
36+40 / 5190	44400	PASSED
44+48 / 5230	43560	PASSED
52+56 / 5270	44760	PASSED
60+64 / 5310	49320	PASSED
100+104 / 5510	43800	PASSED
108+112 / 5550	48720	PASSED
132+136 / 5670	44760	PASSED

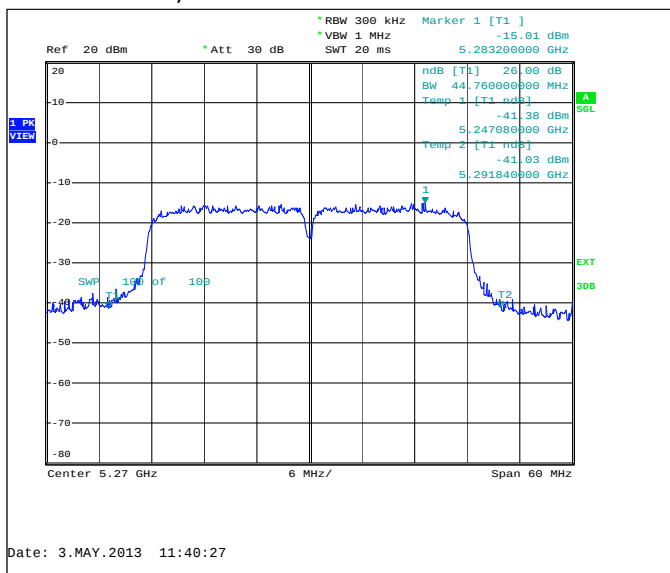
Channel 36+40 / 5190MHz



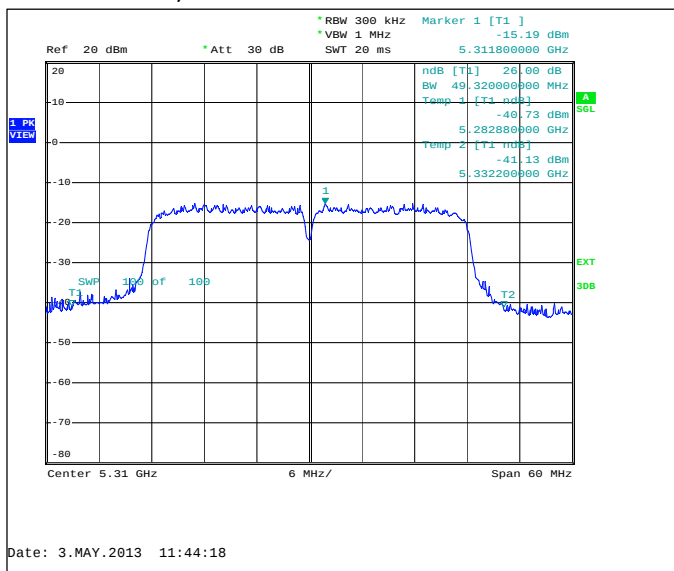
Channel 44+48 / 5230MHz



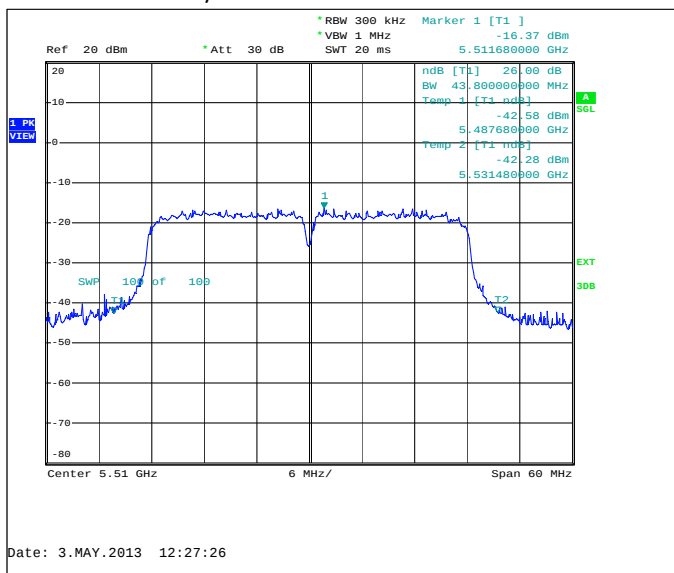
Channel 52+56 / 5270MHz



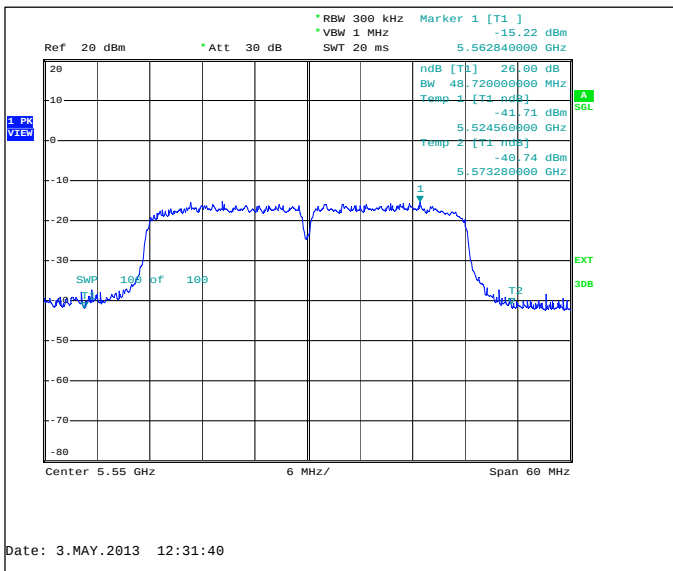
Channel 60+64 / 5310MHz



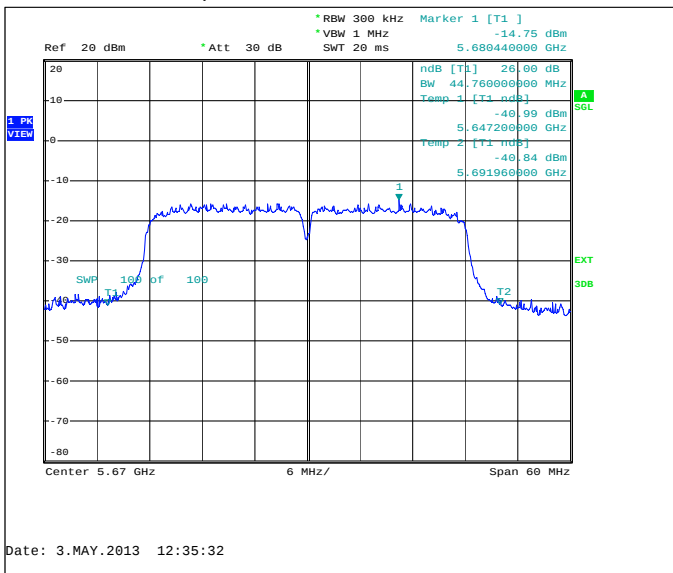
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



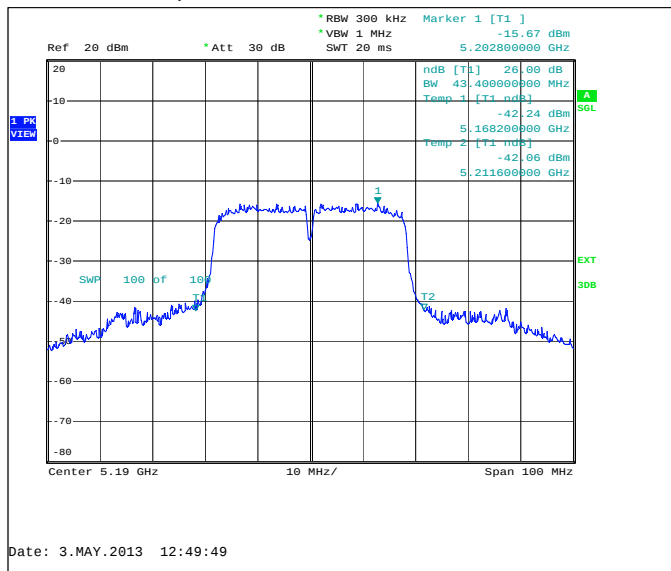
Channel 132+136 / 5670MHz



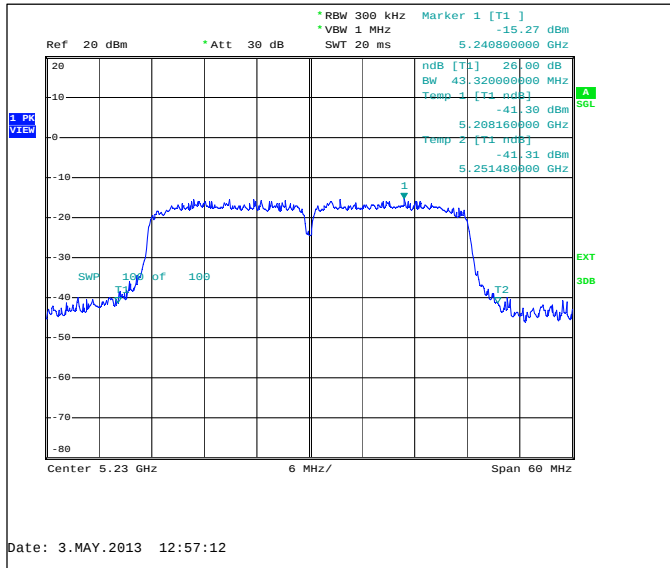
5.3.4 802.11n mode, 16QAM modulation, 81.0 / 90.0 Mbps data rate

Channel / f _c [MHz]	26 dB bandwidth [kHz]	Result
36+40 / 5190	43400	PASSED
44+48 / 5230	43320	PASSED
52+56 / 5270	44400	PASSED
60+64 / 5310	44520	PASSED
100+104 / 5510	43440	PASSED
108+112 / 5550	43680	PASSED
132+136 / 5670	44880	PASSED

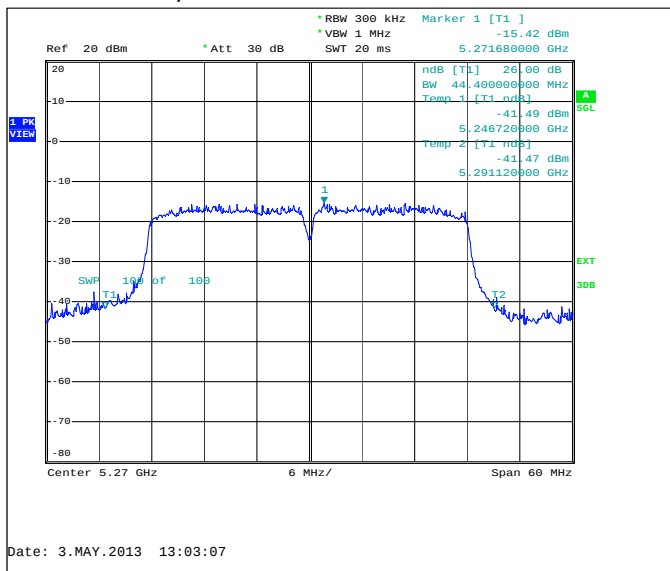
Channel 36+40 / 5190MHz



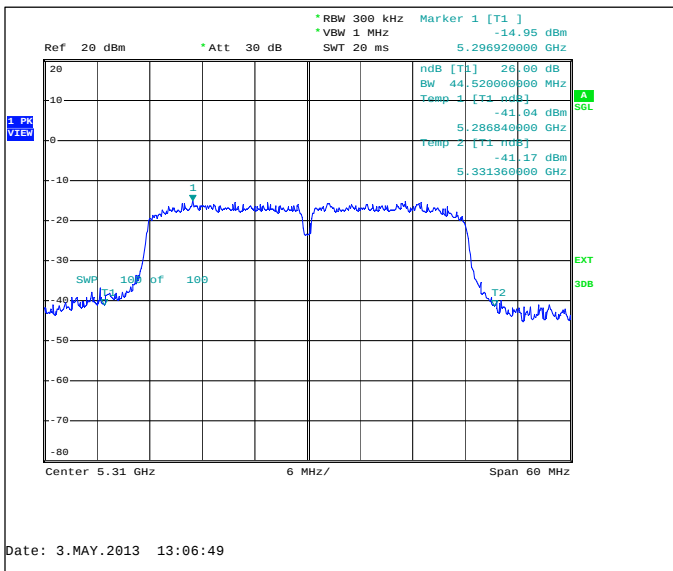
Channel 44+48 / 5230MHz



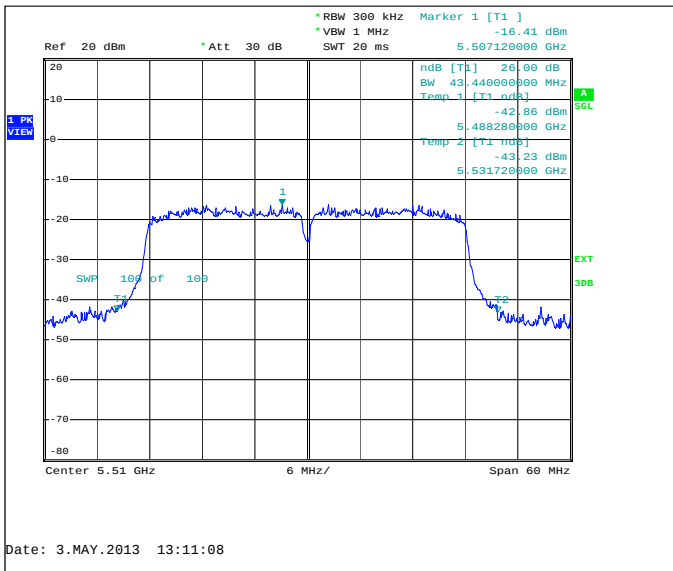
Channel 52+56 / 5270MHz



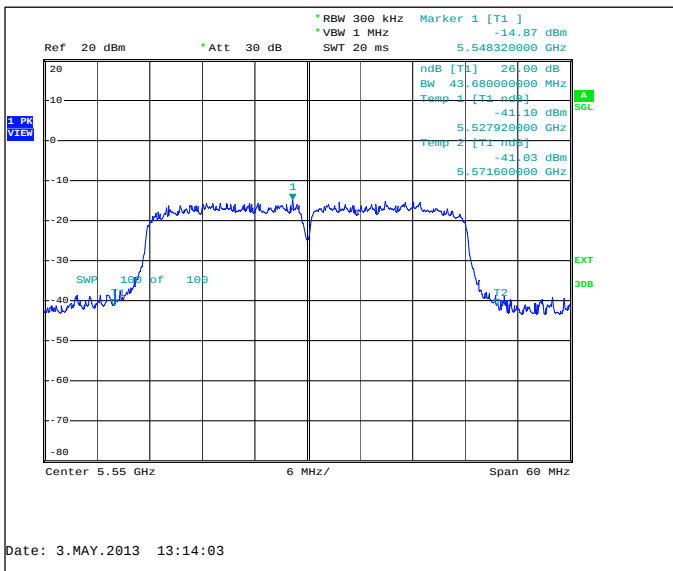
Channel 60+64 / 5310MHz



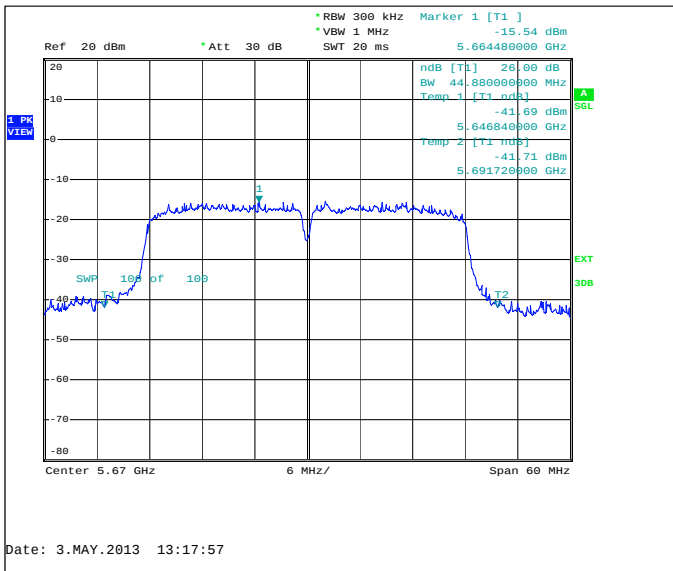
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



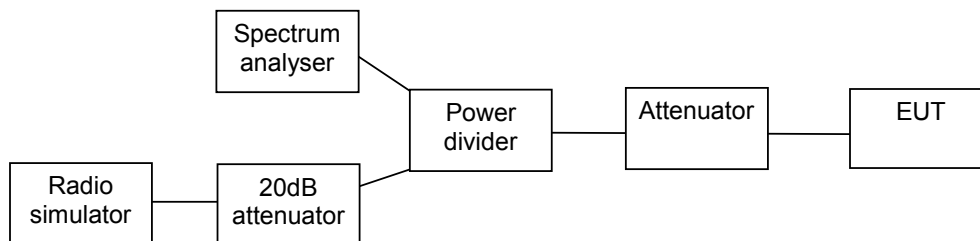
Channel 132+136 / 5670MHz



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

EUT with DUT number	RM-892, DUT 17329
Accessories with DUT numbers	WH-208, DUT 17347
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 30 / 102
Date of measurements	02-May-2013
Measured by	Jari Keto

6.1. Test Setup



6.2. Test method and limit

The measurement is made according to Public Notice KDB 789033 D01 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

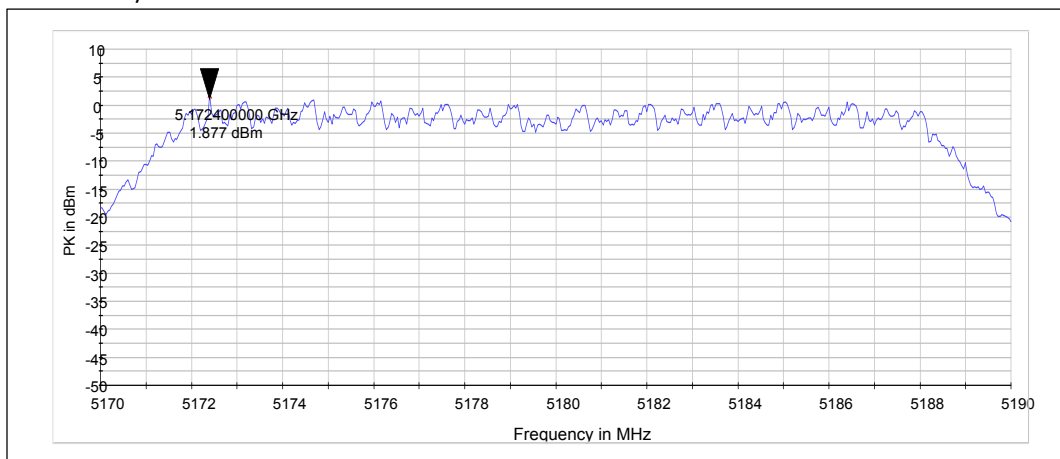
6.3. 5 GHz RLAN Test results

6.3.1 802.11g mode, BPSK modulation, 6 Mbps data rate

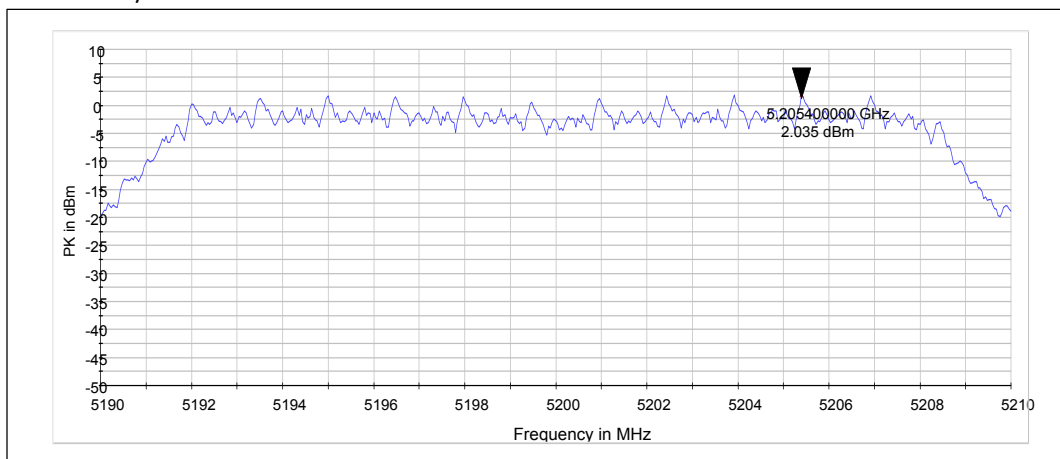
RMS detector (RBW: 1 MHz, VBW: 3 MHz, Video averaging)

Channel / f _c [MHz]	P [dBm]	Result
36 / 5180	1.88	PASSED
40 / 5200	2.03	PASSED
48 / 5240	2.76	PASSED
52 / 5260	2.25	PASSED
60 / 5300	1.52	PASSED
64 / 5320	0.4	PASSED
100 / 5500	2.16	PASSED
116 / 5580	1.76	PASSED
140 / 5700	2.21	PASSED

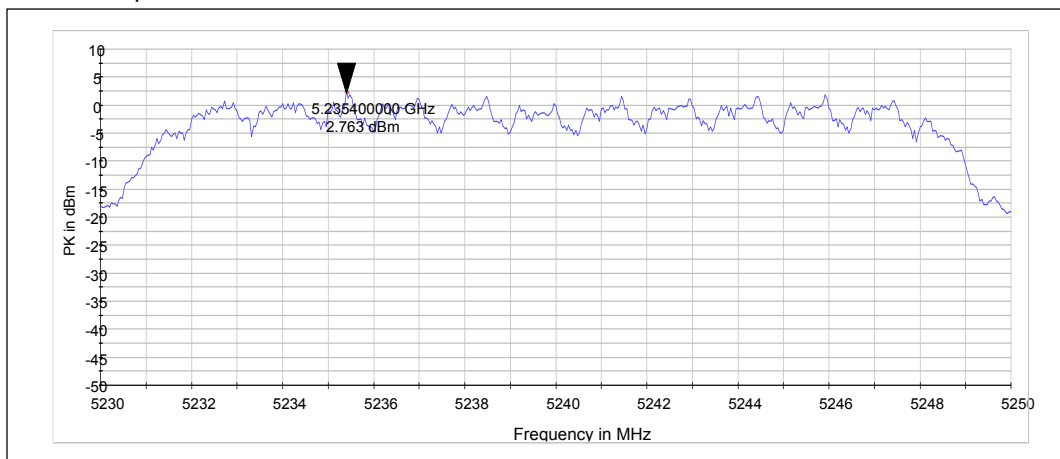
Channel 36 / 5180MHz



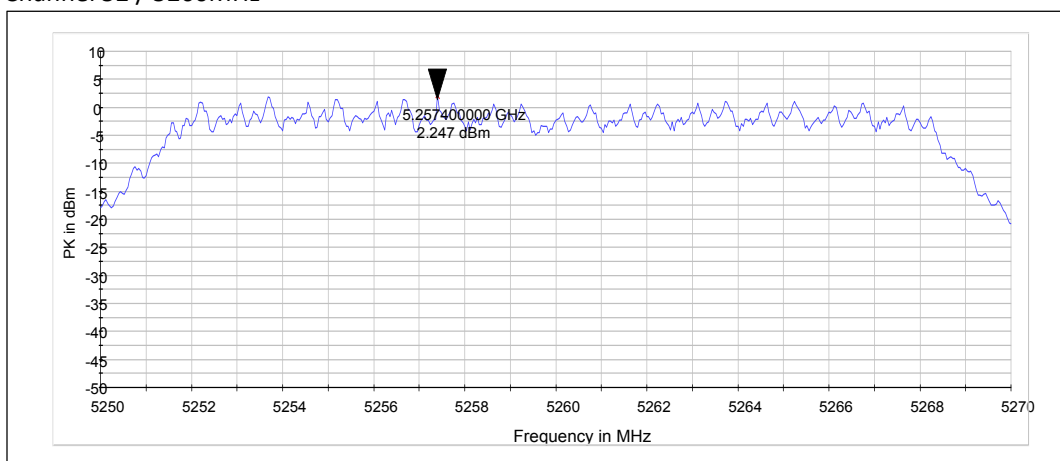
Channel 40 / 5200MHz



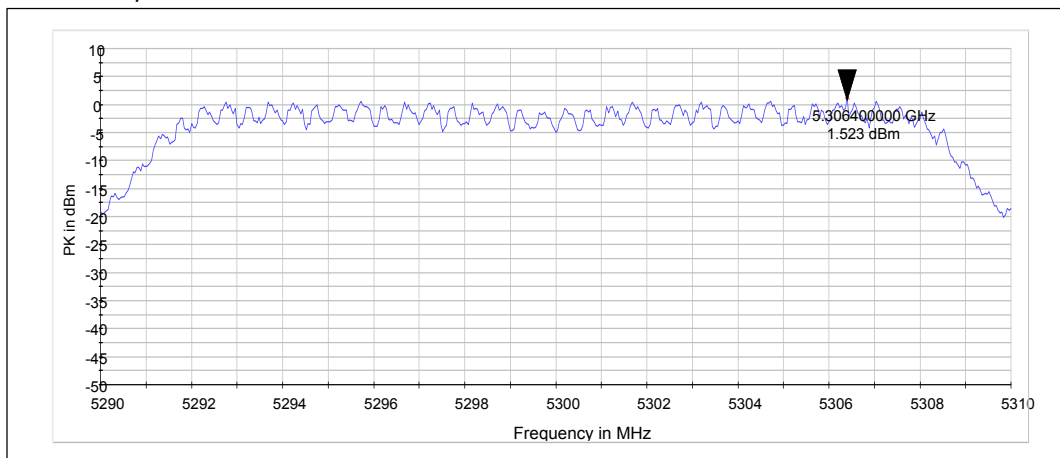
Channel 48 / 5240MHz



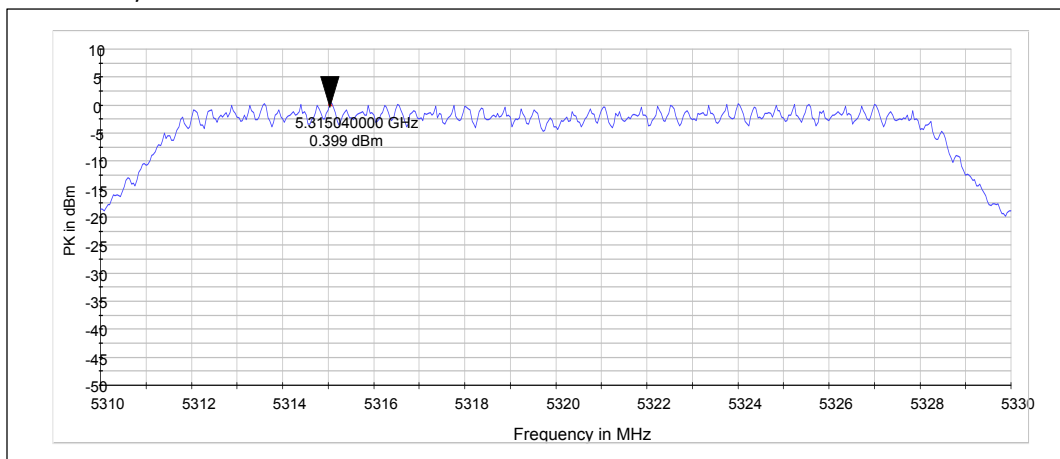
Channel 52 / 5260MHz



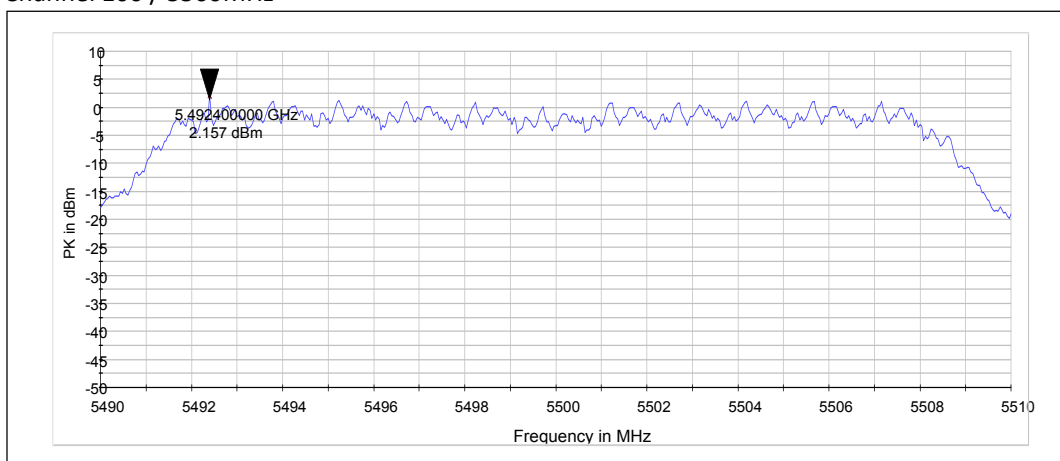
Channel 60 / 5300MHz



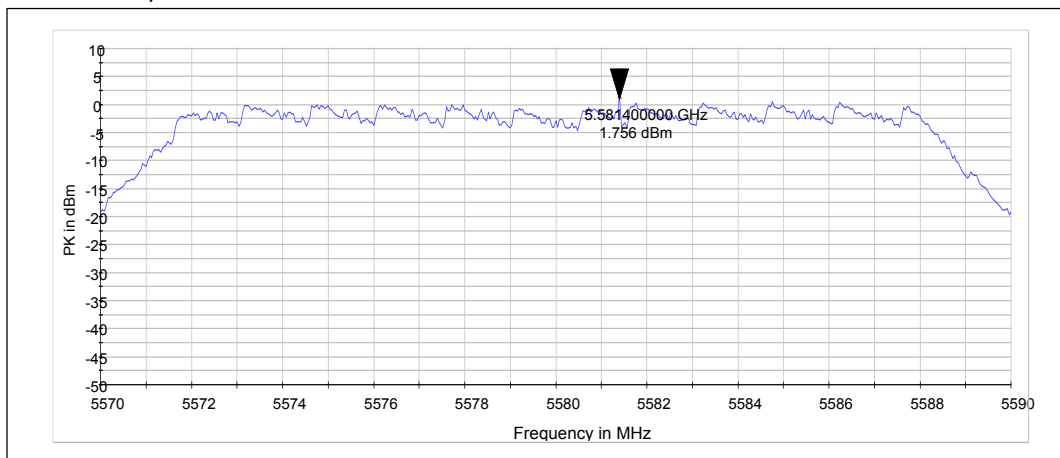
Channel 64 / 5320MHz



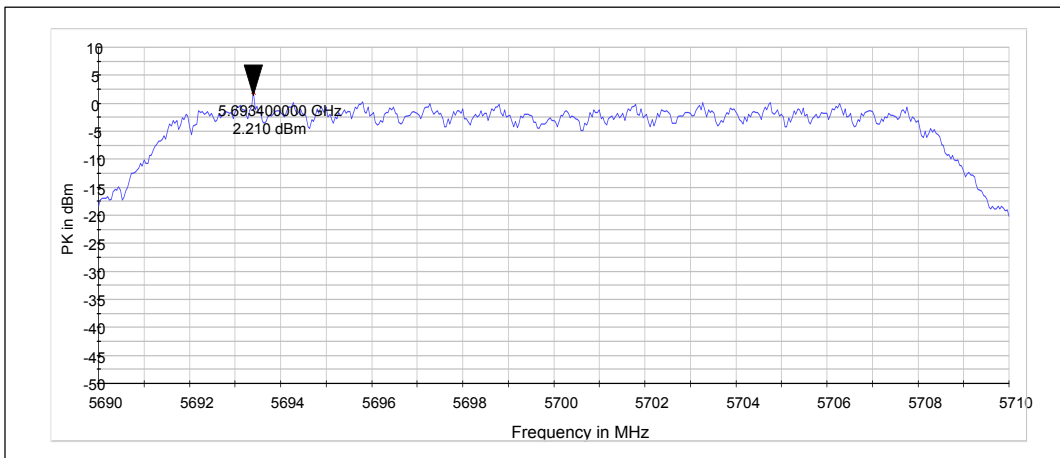
Channel 100 / 5500MHz



Channel 116 / 5580MHz



Channel 140 / 5700MHz

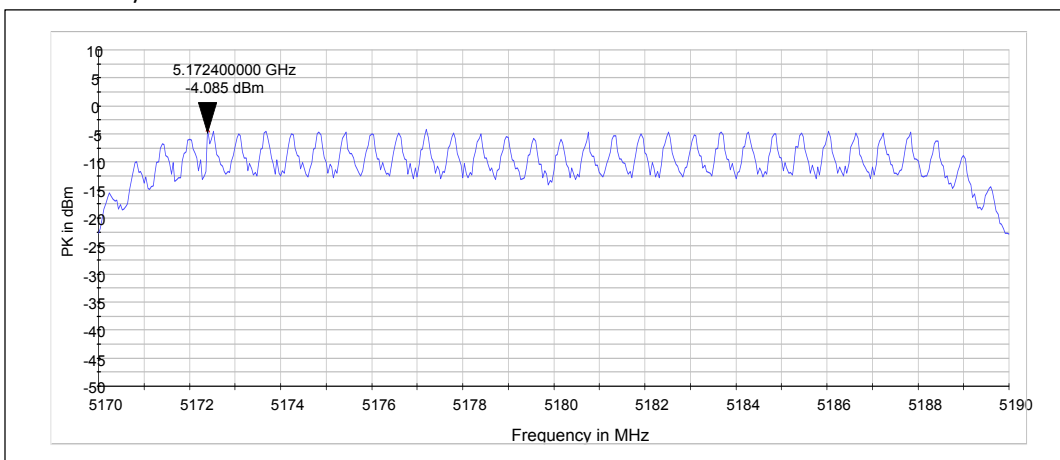


6.3.2 802.11n mode, QPSK modulation, 19.5 / 21.7 Mbps data rate

RMS detector (RBW: 1 MHz, VBW: 3 MHz, Video averaging)

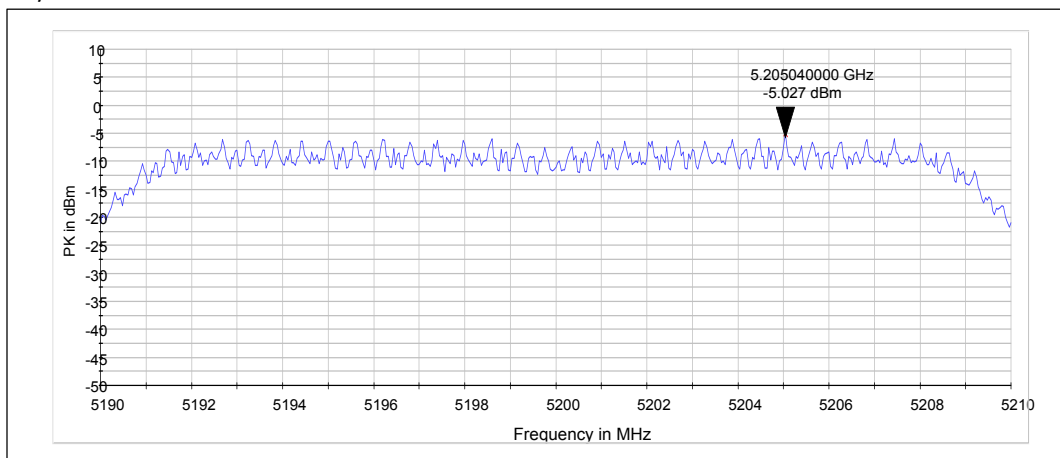
Channel / f_c [MHz]	P [dBm]	Result
36 / 5180	-4.08	PASSED
40 / 5200	-5.03	PASSED
48 / 5240	-0.84	PASSED
52 / 5260	-0.91	PASSED
60 / 5300	-0.83	PASSED
64 / 5320	-6.95	PASSED
100 / 5500	-4.55	PASSED
116 / 5580	-2.08	PASSED
140 / 5700	-2.22	PASSED

Channel 36 / 5180MHz

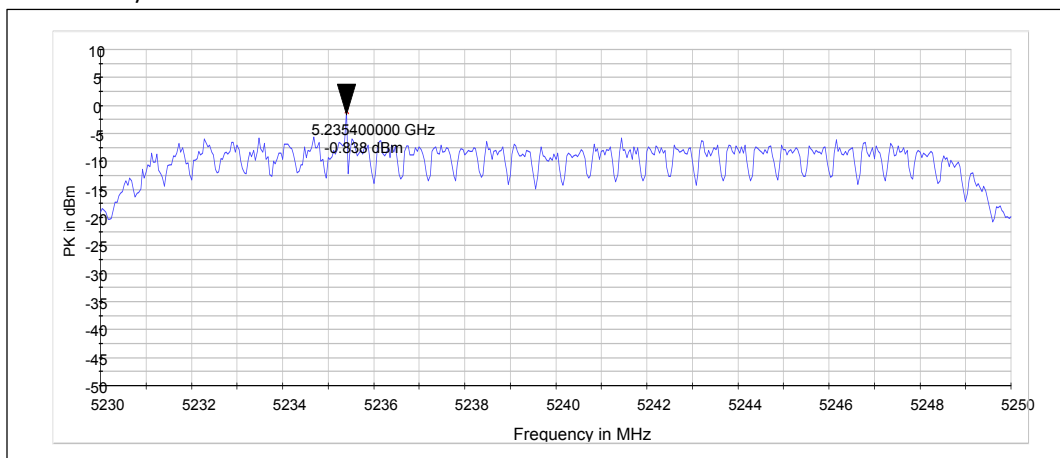


Channel

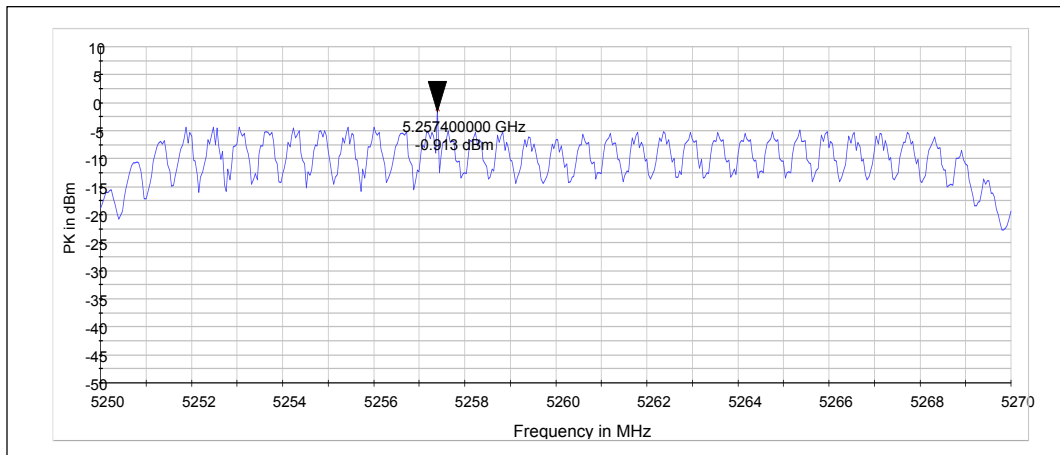
40 / 5200MHz



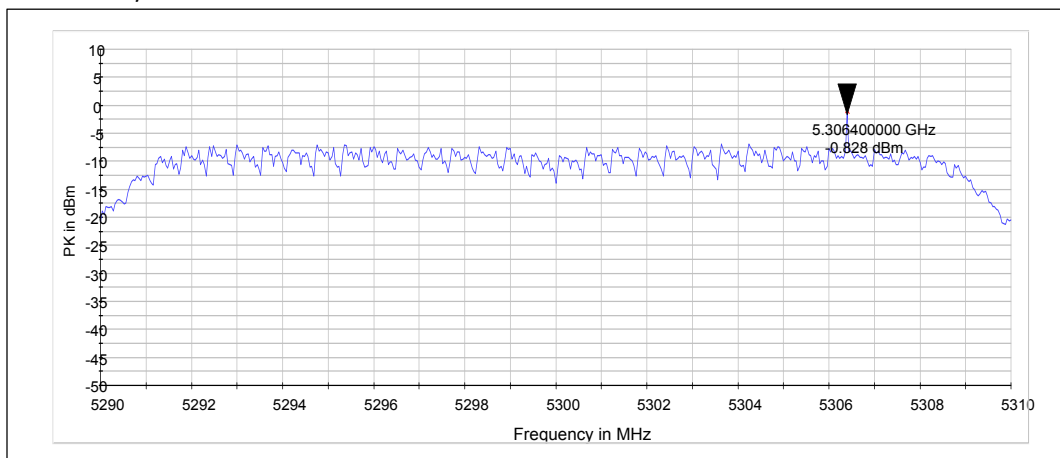
Channel 48 / 5240MHz



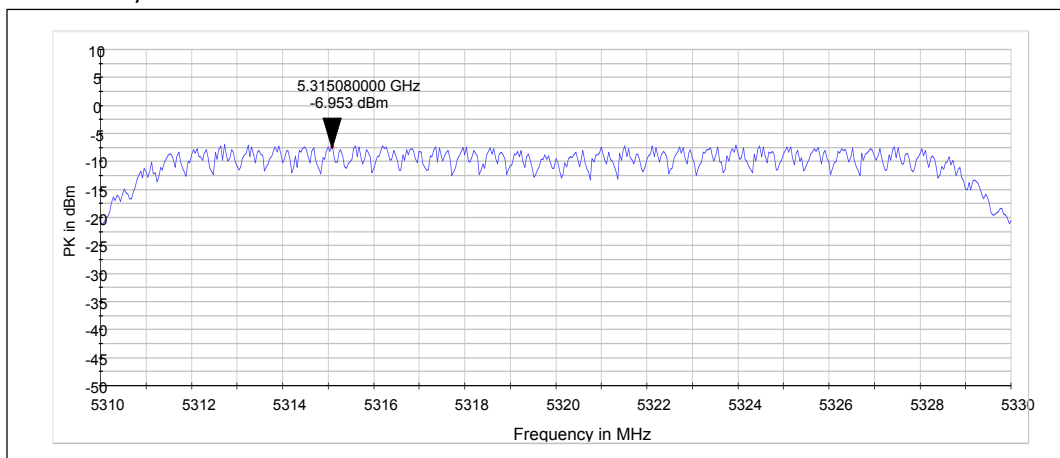
Channel 52 / 5260MHz



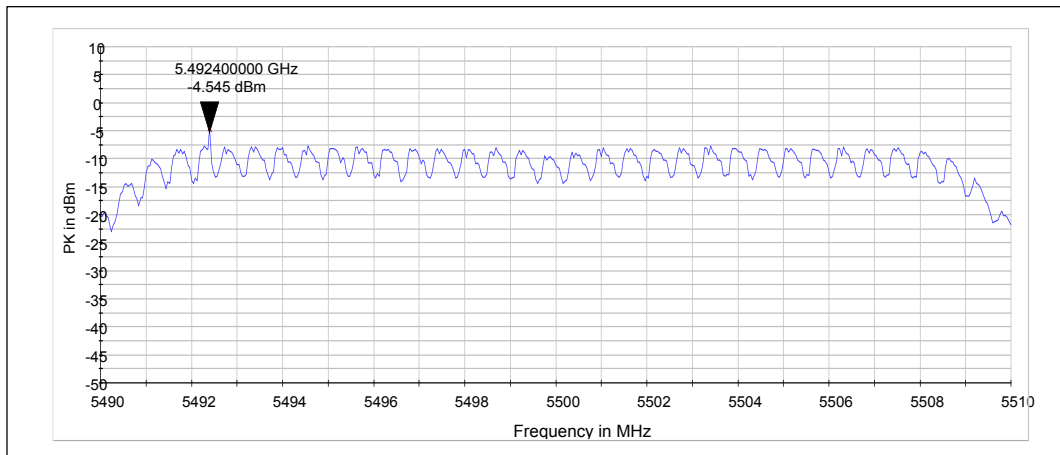
Channel 60 / 5300MHz



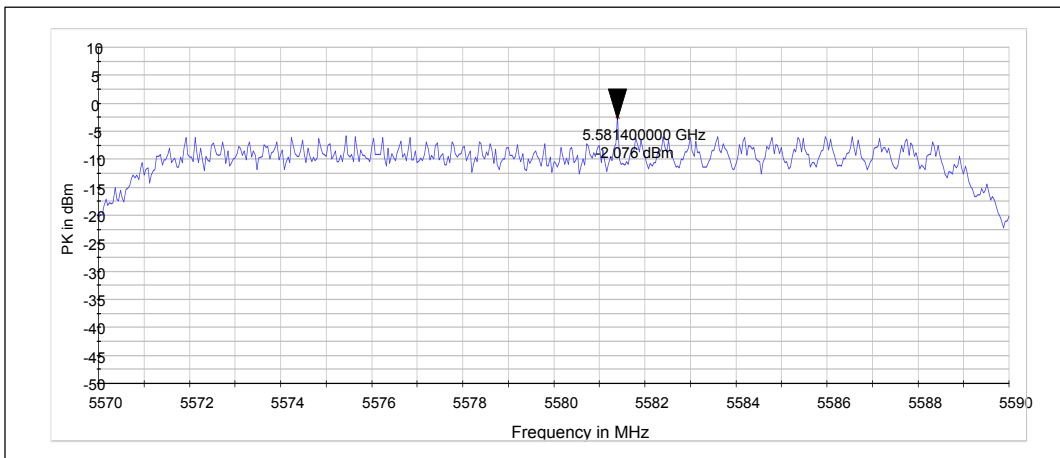
Channel 64 / 5320MHz



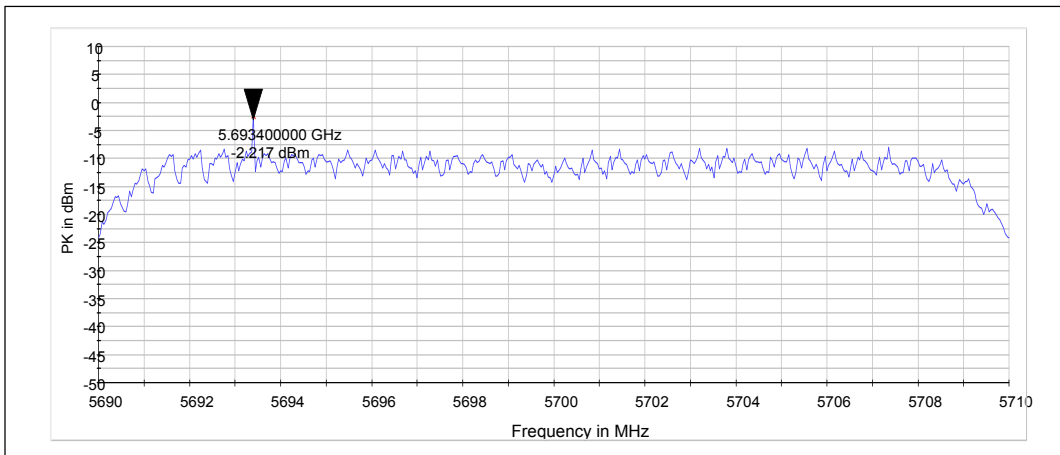
Channel 100 / 5500MHz



Channel 116 / 5580MHz



Channel 140 / 5700MHz

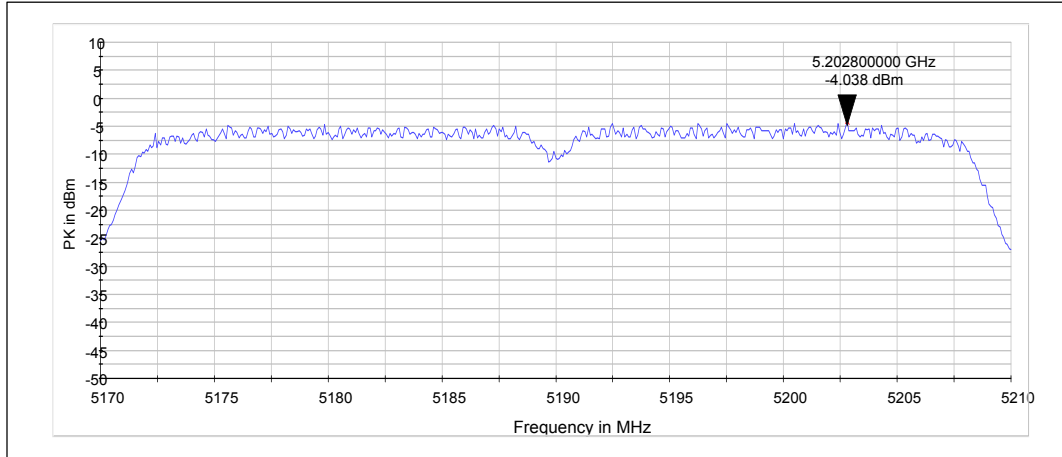


6.3.3 802.11n mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

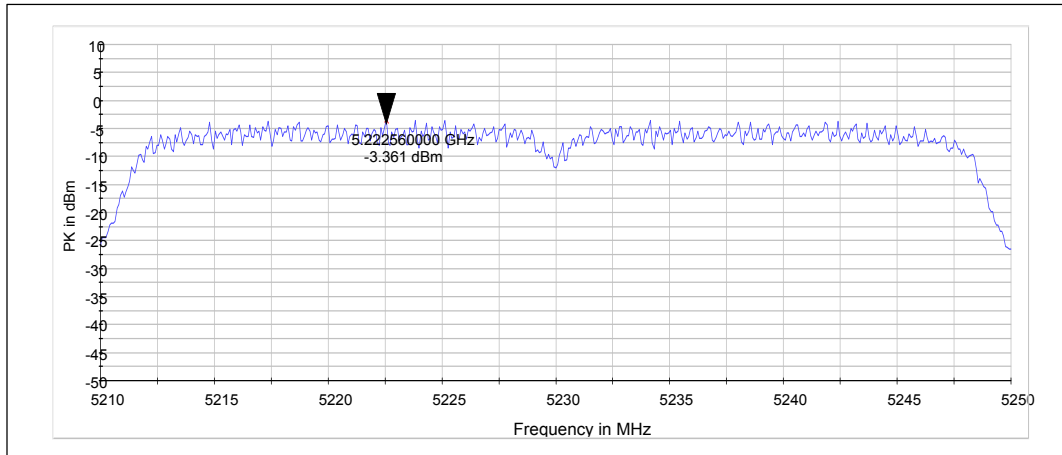
RMS detector (RBW: 1 MHz, VBW: 3 MHz, Video averaging)

Channel / f_c [MHz]	P [dBm]	Result
36+40 / 5190	-4.04	PASSED
44+48 / 5230	-3.36	PASSED
52+56 / 5270	-2.82	PASSED
60+64 / 5310	-2.84	PASSED
100+104 / 5510	-4.99	PASSED
108+112 / 5550	-3.71	PASSED
132+136 / 5670	-4.14	PASSED

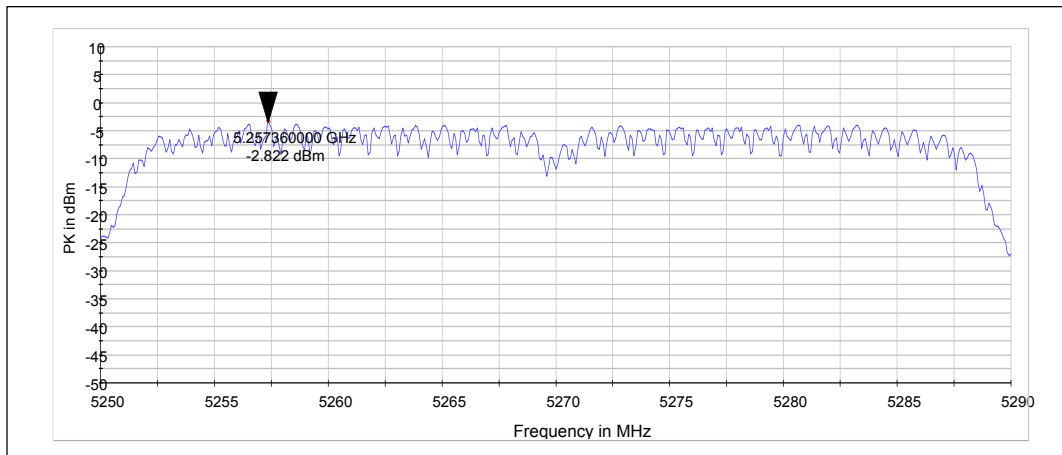
Channel 36+40 / 5190MHz



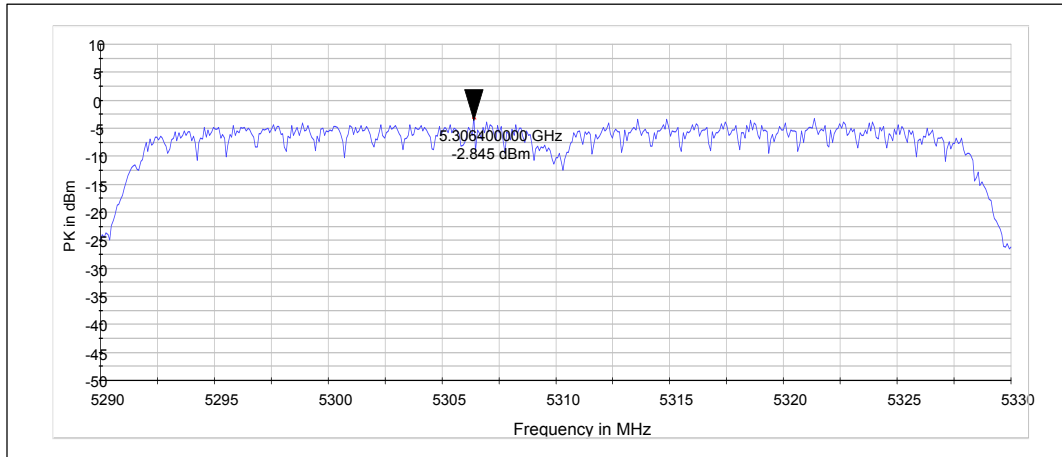
Channel 44+48 / 5230MHz



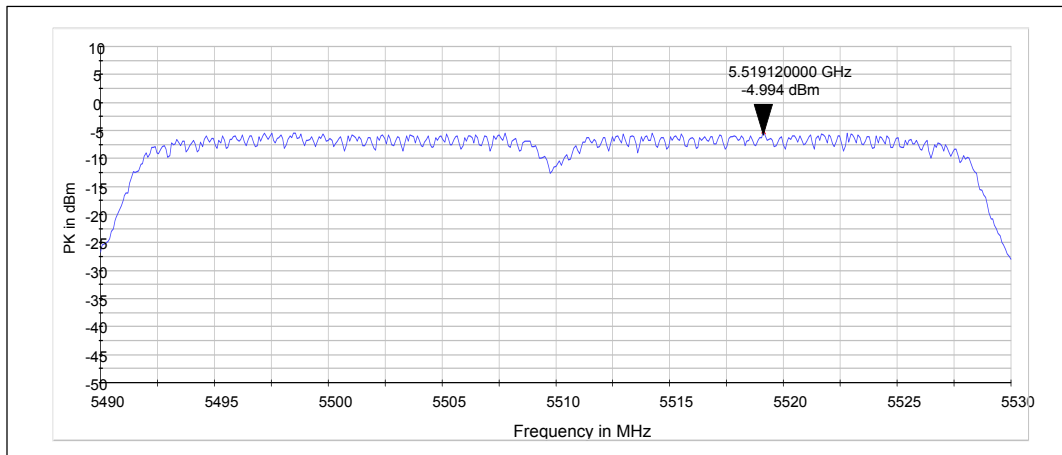
Channel 52+56 / 5270MHz



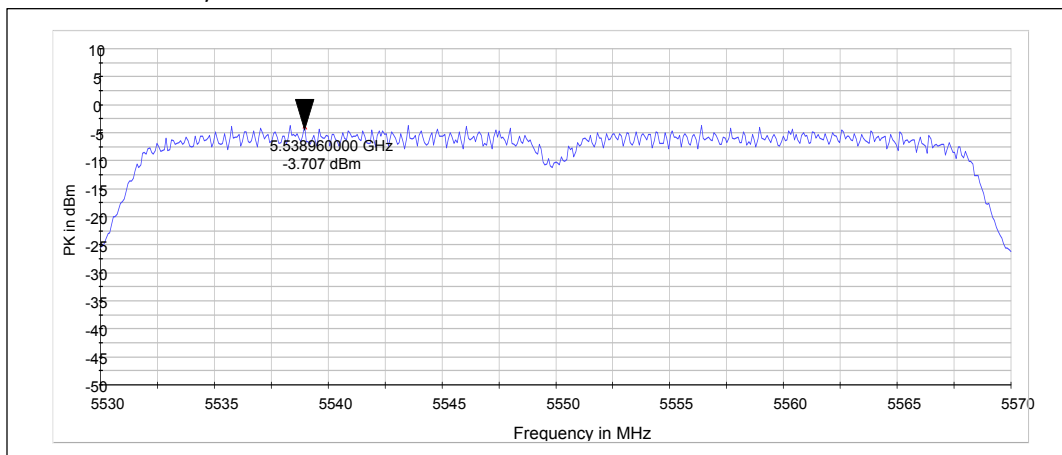
Channel 60+64 / 5310MHz



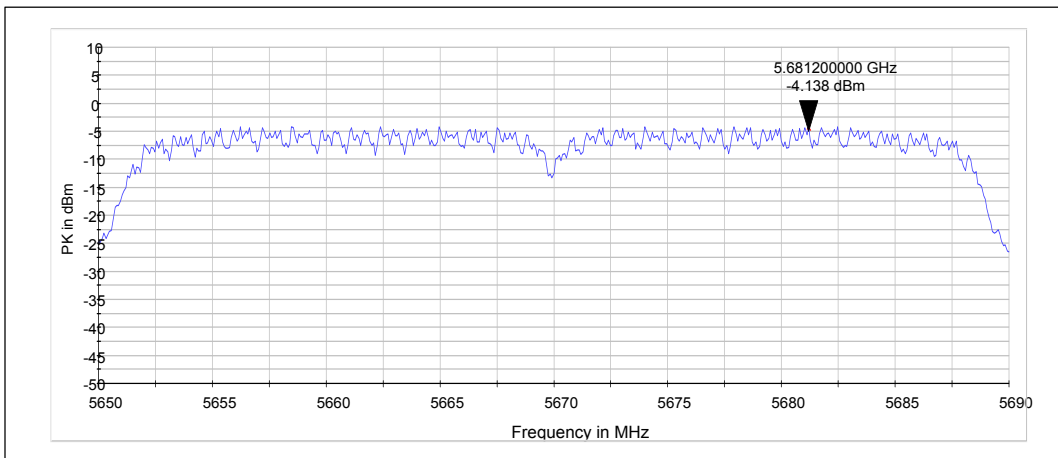
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



Channel 132+136 / 5670MHz

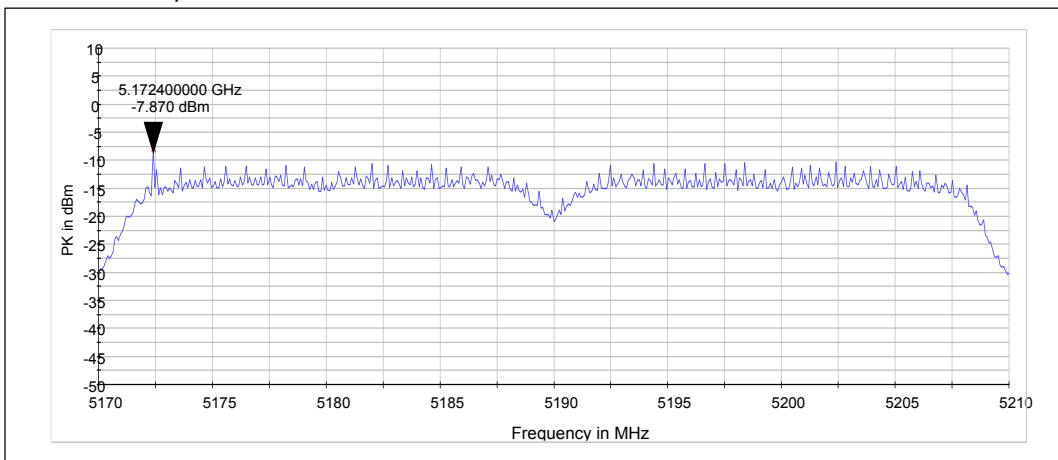


6.3.4 802.11n mode, 16QAM modulation, 81.0 / 90.0 Mbps data rate

RMS detector (RBW: 1 MHz, VBW: 3 MHz, Video averaging)

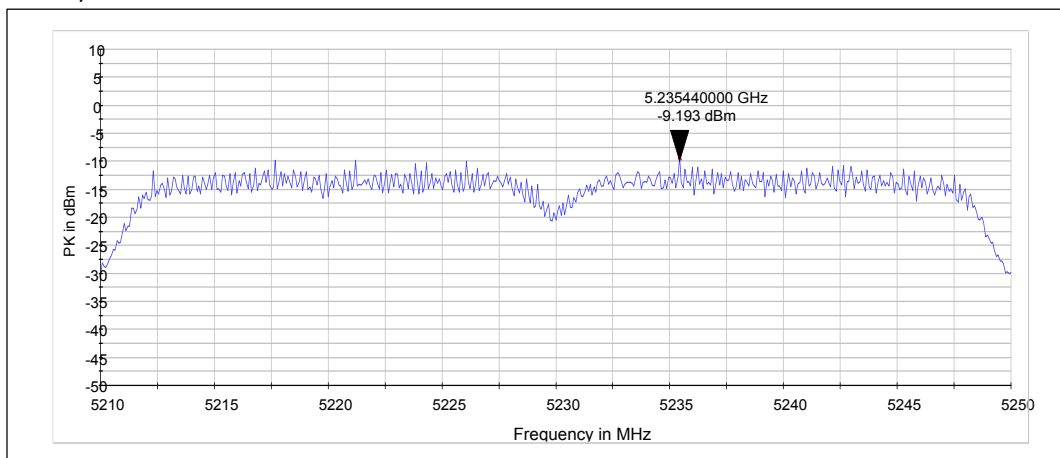
Channel / f_c [MHz]	P [dBm]	Result
36+40 / 5190	-7.87	PASSED
44+48 / 5230	-9.19	PASSED
52+56 / 5270	-9.76	PASSED
60+64 / 5310	-5.24	PASSED
100+104 / 5510	-9.76	PASSED
108+112 / 5550	-8.86	PASSED
132+136 / 5670	-10.68	PASSED

Channel 36+40 / 5190MHz

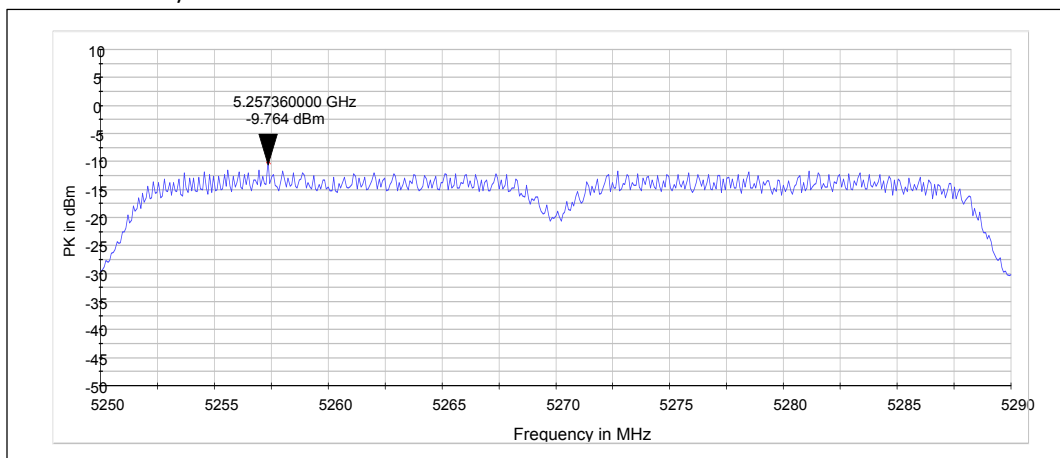


Channel

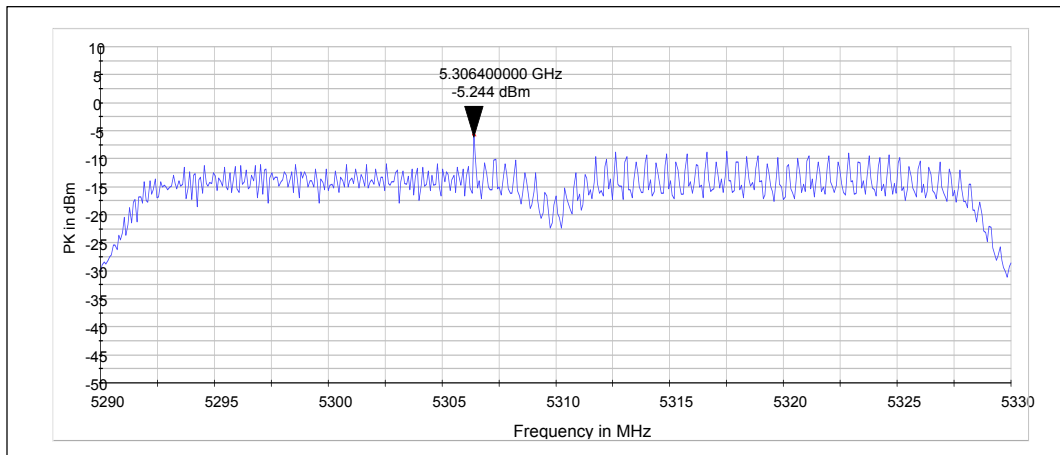
44+48 / 5230MHz



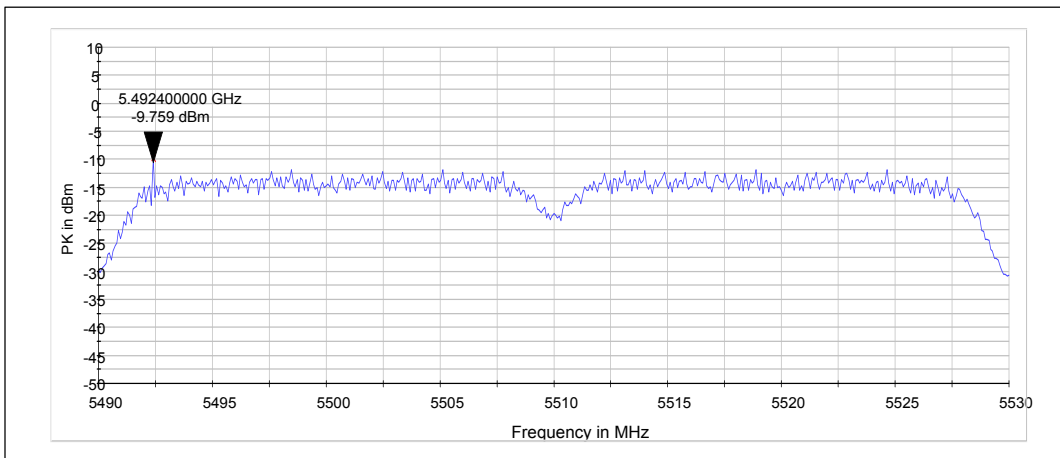
Channel 52+56 / 5270MHz



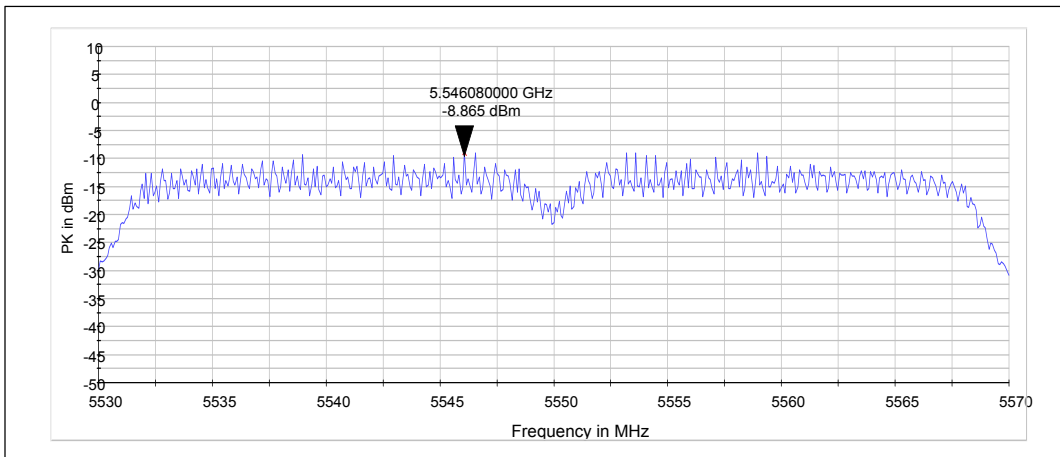
Channel 60+64 / 5310MHz



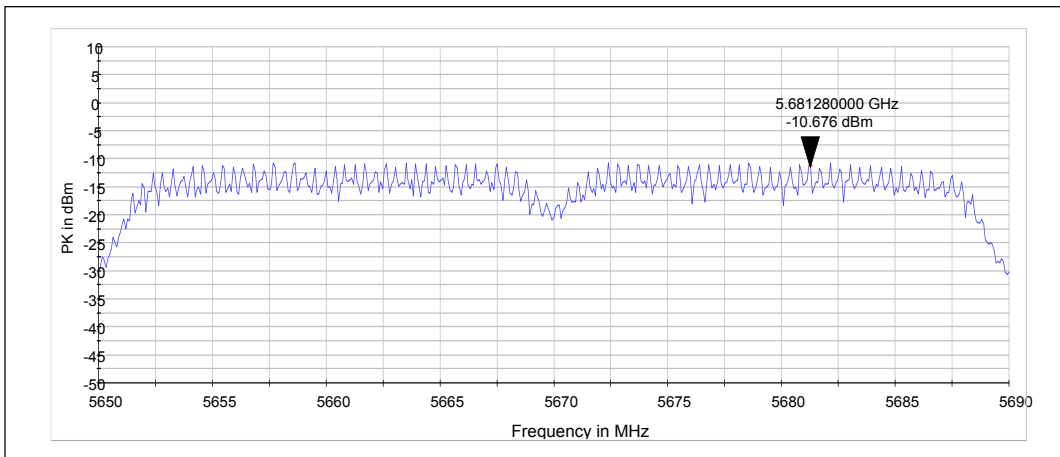
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



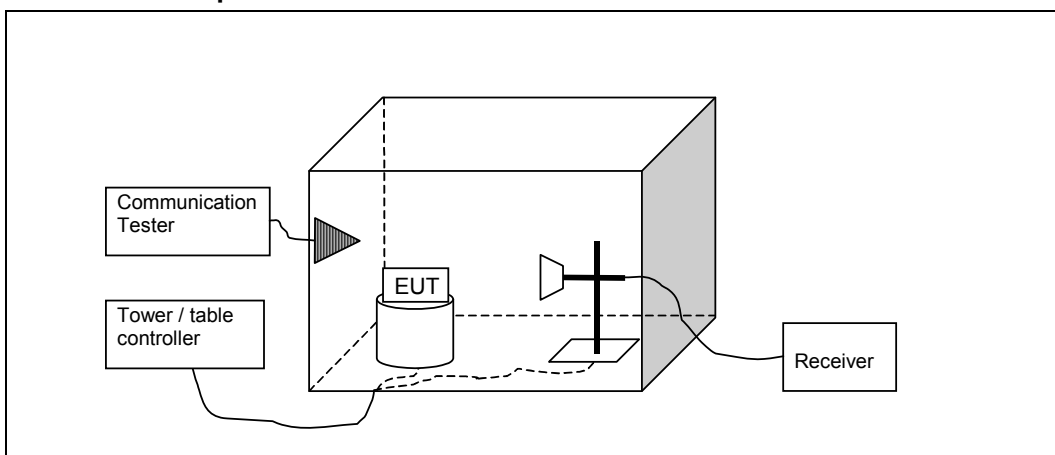
Channel 132+136 / 5670MHz



7. Spurious radiated emissions (FCC §15.407 (b), RSS-210 A9.2)

EUT with DUT number	RM-892, DUT 17369
Accessories with DUT numbers	BL-4YW, DUT 17356 ; WH-208, DUT 17346 ; AC-50E, DUT 17350
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 40 / 104.2
Date of measurements	01-May-2013
Measured by	Kalle Hannila

7.1.1 Test setup



7.2. Test method and limit

The measurement is made the following way:

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system.

The Final Measurement is performed in the Semi-Anechoic Chamber with conducting metal floor, if the Preliminary Measurement results are closer than 20 dB to the permissible value.

The EUT is placed at nonconductive plate at the turntable center.

For each suspected frequency, the turntable is rotated 360 degrees and antenna is scanned from 1 to 4 m. This is repeated for both horizontal and vertical receive antenna polarizations.

The emissions less than 20 dB below the permissible value are reported.

The measurement results are obtained as described below:

$$E [dB\mu V/m] = U_{RX} + A_{TOT}$$

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable loss, antenna factor and preamplifier gain ($A_{TOT} = L_{CABLES} + A_F - G_{PREAMP}$).

Limits for spurious radiated emissions measurements (3 m measurement distance)
There are 2 sets of limit lines. Part 15.209 limits apply below 1 GHz and on restricted bands above 1GHz. The other limits are described in the table below.

Frequency range [MHz]	Limit [dBm / MHz]
5150 - 5250	1 GHz – 5.15 GHz, 5.35 GHz – 40 GHz: -27
5250 - 5350	1 GHz – 5.25 GHz, 5.35 GHz – 40 GHz: -27
5470 - 5725	1 GHz – 5.47 GHz, 5.725 GHz – 40 GHz: -27
5725 - 5825	1 GHz – 5.715 GHz, 5.835 GHz – 40 GHz: -27 5.715 GHz – 5.725 GHz, 5.825 GHz – 5.835 GHz: -17

7.3. 5 GHz RLAN test results

7.3.1 802.11g, BPSK modulation, 6 Mbps data rate.

Channel 40 / 5200MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10400.2	55.76	613.55	43.41	12.35	12.5	68	PASSED
15601.2	51.48	375.103	41.7	9.79	22.5	74	PASSED
20799.2	56.9	699.52	41.98	14.92	17.1	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30.09	27.63	24.069	31.71	-4.08	12.4	40	PASSED
940.163	23.78	15.46	27.72	-3.94	22.2	46	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5208	83.81	15509.579	78.98	4.84	---	---	PASSED
10400.2	43.36	147.147	31.01	12.35	---	---	PASSED
15601.2	38.98	88.92	29.2	9.79	15	54	PASSED
20799.2	43.82	155.149	28.9	14.92	10.2	54	PASSED

Channel 36 / 5180MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10359.8	56.55	672.512	44.47	12.08	11.7	68	PASSED
15546.2	51.85	391.426	42.11	9.74	22.1	74	PASSED
20724.5	57.35	736.716	41.98	15.37	16.6	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10359.8	46.86	220.318	34.78	12.08	---	---	PASSED
15546.2	38.93	88.44	29.19	9.74	15.1	54	PASSED
20724.5	44.28	163.606	28.91	15.37	9.7	54	PASSED

Channel 48 / 5240MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10479.8	56.52	669.962	43.66	12.86	11.7	68	PASSED
15710.4	51.93	395.003	41.97	9.96	22	74	PASSED
20956.3	57.82	777.857	42.9	14.93	16.2	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10479.8	45.08	179.515	32.22	12.86	---	---	PASSED
15710.4	38.89	88.034	28.93	9.96	15.1	54	PASSED
20956.3	44.25	163.155	29.33	14.93	9.7	54	PASSED

Channel 52 / 5260MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10519.8	57.49	748.945	44.76	12.73	10.7	68	PASSED
15779.8	52.35	414.238	42.38	9.98	21.6	74	PASSED
21046.5	57.4	741.566	42.37	15.03	16.6	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10519.8	47.68	242.159	34.95	12.73	---	---	PASSED
15779.8	38.68	85.891	28.71	9.98	15.3	54	PASSED
21046.5	44.35	164.911	29.32	15.03	9.7	54	PASSED

Channel 60 / 5300MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10599.9	55.34	584.857	42.89	12.45	12.9	68	PASSED
15899.8	52.14	404.716	42.24	9.9	21.8	74	PASSED
21199.4	57.09	715.155	41.84	15.25	16.9	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
32	24.77	17.322	30.1	-5.33	15.2	40	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5292	82.18	12846.949	77.82	4.36	---	---	PASSED
5309.723	56.82	693.665	52.55	4.27	---	---	PASSED
10599.9	43.26	145.563	30.81	12.45	---	---	PASSED
15899.8	39.12	90.334	29.22	9.9	14.9	54	PASSED
21199.4	44.34	164.759	29.09	15.25	9.7	54	PASSED

Channel 64 / 5320MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10639.8	57.85	780.639	45.32	12.54	16.1	74	PASSED
15966.3	52.3	412.05	42.48	9.82	21.7	74	PASSED
21271.9	58.24	816.582	42.87	15.37	15.7	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10639.8	48.17	256.006	35.64	12.54	5.8	54	PASSED
15966.3	39	89.166	29.18	9.82	15	54	PASSED
21271.9	44.94	176.604	29.57	15.37	9.1	54	PASSED

Channel 100 / 5500MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11000	58.86	876.597	46.16	12.7	15.1	74	PASSED
16493	51.2	363.245	41.26	9.94	17	68	PASSED
22006	56.74	686.91	41.96	14.78	11.5	68	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11000	51.26	365.384	38.56	12.7	2.7	54	PASSED
16493	38.28	82.007	28.34	9.94	---	---	PASSED
22006	43.7	153.179	28.92	14.78	---	---	PASSED

Channel 116 / 5580MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5549.196	65.9	1971.515	61.75	4.15	2.3	68	PASSED
11159.7	56.73	686.436	44.32	12.41	17.2	74	PASSED
16738.4	51.26	365.469	41.82	9.44	17	68	PASSED
22320.4	55.8	616.24	40.6	15.2	18.2	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5549.196	43.33	146.724	39.18	4.15	---	---	PASSED
11159.7	44.97	177.256	32.56	12.41	9	54	PASSED
16738.4	38.36	82.804	28.92	9.44	---	---	PASSED
22320.4	42.97	140.751	27.77	15.2	11	54	PASSED

Channel 140 / 5700MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11399.8	57.71	768.069	45.18	12.53	16.3	74	PASSED
17102.6	50.47	333.849	40.86	9.61	17.8	68	PASSED
22796.3	55.43	591.017	40.99	14.44	18.5	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11399.8	48.94	279.769	36.41	12.53	5.1	54	PASSED
17102.6	37.68	76.595	28.07	9.61	---	---	PASSED
22796.3	42.63	135.301	28.19	14.44	11.4	54	PASSED

7.3.2 802.11n, QPSK modulation, 19.5 / 21.7 Mbps data rate.

Channel 40 / 5200MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10399.9	55.87	621.298	43.52	12.35	12.4	68	PASSED
15600.2	51.73	385.878	41.96	9.77	22.3	74	PASSED
20798.4	56.19	644.763	41.27	14.92	17.8	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30	26.44	20.98	30.46	-4.02	13.6	40	PASSED
152.391	10.69	3.423	29.49	-18.8	32.8	44	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5208	83.97	15799.742	79.14	4.84	---	---	PASSED
10399.9	42.47	132.923	30.12	12.35	---	---	PASSED
15600.2	39	89.094	29.23	9.77	15	54	PASSED
20798.4	43.82	155.203	28.9	14.92	10.2	54	PASSED

Channel 36 / 5180MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10364.7	54.31	519.577	42.18	12.13	13.9	68	PASSED
15543.3	52.35	414.429	42.59	9.76	21.6	74	PASSED
20722.8	57	708.272	41.63	15.37	17	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10364.7	41.18	114.551	29.05	12.13	---	---	PASSED
15543.3	38.86	87.71	29.1	9.76	15.1	54	PASSED
20722.8	44.17	161.64	28.8	15.37	9.8	54	PASSED

Channel 48 / 5240MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10480.2	57.13	718.952	44.27	12.86	11.1	68	PASSED
15710.5	51.73	386.1	41.77	9.96	22.2	74	PASSED
20957.5	57.26	729.625	42.32	14.94	16.7	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10480.2	46.03	200.263	33.17	12.86	---	---	PASSED
15710.5	38.76	86.726	28.8	9.96	15.2	54	PASSED
20957.5	44.16	161.417	29.22	14.94	9.8	54	PASSED

Channel 52 / 5260MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10519.9	57.85	780.728	45.12	12.73	10.4	68	PASSED
15770.5	51.14	360.579	40.95	10.19	22.8	74	PASSED
21030.8	56.55	672.435	41.5	15.05	17.4	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10519.9	47.73	243.585	35	12.73	---	---	PASSED
15770.5	38.72	86.338	28.53	10.19	15.3	54	PASSED
21030.8	44.19	161.994	29.14	15.05	9.8	54	PASSED

Channel 60 / 5300MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10599.7	56.07	635.77	43.62	12.45	12.2	68	PASSED
15900.4	51.96	396.461	42.05	9.91	22	74	PASSED
21199.9	57.44	744.475	42.19	15.25	16.5	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30.03	25.55	18.945	29.59	-4.04	14.4	40	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5292	73.82	4911.34	69.46	4.36	---	---	PASSED
5309.723	57.75	771.347	53.48	4.27	---	---	PASSED
10599.7	43.33	146.639	30.88	12.45	---	---	PASSED
15900.4	39.02	89.351	29.11	9.91	15	54	PASSED
21199.9	44.22	162.611	28.97	15.25	9.8	54	PASSED

Channel 64 / 5320MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10639.9	59.1	901.156	46.57	12.54	14.9	74	PASSED
15959.7	52.65	429.042	42.96	9.69	21.3	74	PASSED
21270.1	58.18	811.241	42.82	15.36	15.8	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10639.9	51.13	360.081	38.6	12.54	2.9	54	PASSED
15959.7	38.89	88.004	29.2	9.69	15.1	54	PASSED
21270.1	44.88	175.408	29.52	15.36	9.1	54	PASSED

Channel 116 / 5580MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5550.9	67.65	2412.126	63.48	4.17	0.6	68	PASSED
11160.3	55.86	620.512	43.46	12.4	18.1	74	PASSED
16738.5	51.43	372.821	41.99	9.44	16.8	68	PASSED
22319.8	56.77	689.763	41.57	15.2	17.2	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5550.9	45.09	179.763	40.92	4.17	---	---	PASSED
11160.3	42.77	137.515	30.37	12.4	11.2	54	PASSED
16738.5	38.34	82.575	28.9	9.44	---	---	PASSED
22319.8	42.9	139.605	27.7	15.2	11.1	54	PASSED

Channel 100 / 5500MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10999.9	57.6	758.84	44.9	12.7	16.4	74	PASSED
16508.3	51.32	368.044	41.44	9.88	16.9	68	PASSED
21992.3	56.45	664.814	41.71	14.74	11.8	68	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10999.9	48.19	256.655	35.49	12.7	5.8	54	PASSED
16508.3	38.16	80.938	28.28	9.88	---	---	PASSED
21992.3	43.57	150.852	28.83	14.74	---	---	PASSED

Channel 140 / 5700MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11399.9	57.43	744.218	44.9	12.53	16.5	74	PASSED
17105.8	50.2	323.482	40.62	9.58	18	68	PASSED
22807.7	55.9	623.591	41.44	14.46	18.1	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11399.9	49.38	294.408	36.85	12.53	4.6	54	PASSED
17105.8	37.61	75.98	28.03	9.58	---	---	PASSED
22807.7	42.57	134.416	28.11	14.46	11.4	54	PASSED

7.3.3 802.11n, BPSK modulation, 13.5 / 15.0 Mbps data rate.

Channel 36+40 / 5190MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5128.197	55.42	590.201	50.01	5.41	18.6	74	PASSED
5246.6	49.89	312.176	45.32	4.57	18.3	68	PASSED
10383.7	54.16	510.74	41.99	12.17	14.1	68	PASSED
15573.2	51.38	370.723	41.71	9.67	22.6	74	PASSED
20760.4	57.22	726.44	41.99	15.23	16.8	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30.06	20.96	11.174	25.02	-4.06	19	40	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5128.197	38.61	85.192	33.2	5.41	15.4	54	PASSED
5246.6	35.7	60.975	31.13	4.57	---	---	PASSED
10383.7	41.33	116.56	29.16	12.17	---	---	PASSED
15573.2	38.74	86.507	29.07	9.67	15.3	54	PASSED
20760.4	44.13	160.898	28.9	15.23	9.9	54	PASSED

Channel 44+48 / 5230MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10453.9	55	562.147	42.13	12.87	13.2	68	PASSED
15585.4	51.91	394.094	42.13	9.78	22.1	74	PASSED
20662.6	57.91	786.502	42.26	15.65	16.1	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10453.9	42.28	130.032	29.41	12.87	---	---	PASSED
15585.4	38.88	87.943	29.1	9.78	15.1	54	PASSED
20662.6	44.72	172.088	29.07	15.65	9.3	54	PASSED

Channel 52+56 / 5270MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5203.675	54.69	542.875	49.76	4.93	13.5	68	PASSED
5204.441	54.31	519.338	49.4	4.91	13.9	68	PASSED
10541.2	55.86	621.084	43.2	12.66	12.4	68	PASSED
15814	51.97	396.735	41.71	10.26	22	74	PASSED
21078.4	57.11	716.886	41.99	15.12	16.9	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30	26.86	22.029	30.88	-4.02	13.1	40	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5203.675	37.83	77.902	32.9	4.93	---	---	PASSED
5204.441	37.75	77.152	32.84	4.91	---	---	PASSED
10541.2	42.34	130.963	29.68	12.66	---	---	PASSED
15814	39.21	91.306	28.95	10.26	14.8	54	PASSED
21078.4	44.32	164.513	29.2	15.12	9.7	54	PASSED

Channel 60+64 / 5310MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10600	54.99	561.888	42.54	12.45	13.2	68	PASSED
15922.7	51.95	396.004	42.26	9.69	22	74	PASSED
21252.9	57.9	784.874	42.55	15.35	16.1	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10600	42.22	129.048	29.77	12.45	11.8	54	PASSED
15922.7	38.83	87.388	29.14	9.69	15.2	54	PASSED
21252.9	44.8	173.72	29.45	15.35	9.2	54	PASSED

Channel 100+104 / 5510MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11020	57.71	767.892	44.9	12.81	16.3	74	PASSED
16528.7	50.29	326.851	40.62	9.67	17.9	68	PASSED
22028.2	56.6	676.083	41.57	15.03	17.4	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11020	48.98	281.125	36.17	12.81	5	54	PASSED
16528.7	37.94	78.868	28.27	9.67	---	---	PASSED
22028.2	43.89	156.441	28.86	15.03	10.1	54	PASSED

Channel 108+112 / 5550MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5606.1	57.17	721.855	52.92	4.25	11.1	68	PASSED
11099.9	56.11	639.219	43.69	12.42	17.9	74	PASSED
16648	51.72	385.257	41.72	10	16.5	68	PASSED
22201.1	56.13	640.693	41.29	14.84	17.8	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30.27	26.68	21.585	30.88	-4.2	13.3	40	PASSED
906.689	23.51	14.986	27.6	-4.09	22.5	46	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5606.1	40.07	100.763	35.82	4.25	---	---	PASSED
11099.9	44.64	170.51	32.22	12.42	9.4	54	PASSED
16648	38.67	85.753	28.67	10	---	---	PASSED
22201.1	43.11	143.054	28.27	14.84	10.9	54	PASSED

Channel 132+136 / 5670MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11340.1	58.75	865.765	46.7	12.05	15.2	74	PASSED
17011.7	50.85	348.739	41.71	9.14	17.4	68	PASSED
22665.1	56.72	685.094	41.44	15.28	17.3	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11340.1	51.12	359.874	39.07	12.05	2.9	54	PASSED
17011.7	37.09	71.507	27.95	9.14	---	---	PASSED
22665.1	43.83	155.4	28.55	15.28	10.2	54	PASSED

7.3.4 802.11n, 16QAM modulation, 81.0 / 90.0 Mbps data rate.

Channel 36+40 / 5190MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5127.776	55.94	626.253	50.53	5.41	18	74	PASSED
10382.1	54.15	510.094	41.99	12.16	14.1	68	PASSED
15567.5	51.52	376.574	41.85	9.67	22.5	74	PASSED
20760.4	57.22	726.44	41.99	15.23	16.8	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30	20.84	11.014	24.86	-4.02	19.2	40	PASSED
531.099	17.09	7.153	26.44	-9.35	28.9	46	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5127.776	37.86	78.136	32.45	5.41	16.1	54	PASSED
10382.1	41.29	115.971	29.13	12.16	---	---	PASSED
15567.5	38.74	86.477	29.07	9.67	15.3	54	PASSED
20760.4	44.13	160.842	28.9	15.23	9.9	54	PASSED

Channel 44+48 / 5230MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10454.9	55	562.147	42.13	12.87	13.2	68	PASSED
15578.8	51.7	384.68	41.99	9.71	22.3	74	PASSED
20677	57.48	748.514	41.99	15.49	16.5	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10454.9	42.19	128.692	29.32	12.87	---	---	PASSED
15578.8	38.8	87.086	29.09	9.71	15.2	54	PASSED
20677	44.57	169.219	29.08	15.49	9.4	54	PASSED

Channel 52+56 / 5270MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5209.158	53.96	498.827	49.15	4.81	14.3	68	PASSED
5333.8	49.48	297.715	45.18	4.3	18.8	68	PASSED
10543.3	55.07	566.565	42.41	12.66	13.2	68	PASSED
15814	51.55	378.051	41.29	10.26	22.4	74	PASSED
21076.9	57.25	728.283	42.13	15.12	16.7	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
30.18	20.72	10.867	24.86	-4.14	19.3	40	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5209.158	37.38	73.961	32.57	4.81	---	---	PASSED
5333.8	35.72	61.087	31.42	4.3	---	---	PASSED
10543.3	42.32	130.587	29.66	12.66	---	---	PASSED
15814	39.18	90.981	28.92	10.26	14.8	54	PASSED
21076.9	44.34	164.778	29.22	15.12	9.7	54	PASSED

Channel 108+112 / 5550MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11100.3	56.77	689.446	44.35	12.42	17.2	74	PASSED
16647.6	51.43	372.949	41.43	10	16.8	68	PASSED
22196.2	56.26	650.429	41.43	14.83	17.7	74	PASSED

Quasi peak (RBW: 100 kHz, VBW: 100 kHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
32.01	25.63	19.114	30.97	-5.34	14.4	40	PASSED
33.806	19.44	9.37	25.95	-6.51	20.6	40	PASSED
38.432	15.62	6.039	25.18	-9.56	24.4	40	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11100.3	43.58	150.956	31.16	12.42	10.4	54	PASSED
16647.6	38.63	85.379	28.63	10	---	---	PASSED
22196.2	43.15	143.714	28.32	14.83	10.9	54	PASSED

Channel 60+64 / 5310MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10600	55.41	589.251	42.96	12.45	12.8	68	PASSED
15918.8	52.42	417.975	42.54	9.88	21.6	74	PASSED
21255.5	58.81	871.465	43.46	15.35	15.2	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
10600	42.17	128.396	29.72	12.45	11.8	54	PASSED
15918.8	39.02	89.289	29.14	9.88	15	54	PASSED
21255.5	44.79	173.52	29.44	15.35	9.2	54	PASSED

Channel 100+104 / 5510MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11019.8	57.7	767.715	44.9	12.8	16.3	74	PASSED
16516.6	50.91	351.075	41.02	9.89	17.3	68	PASSED
22023.3	57.16	720.692	42.14	15.03	16.8	74	PASSED

Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11019.8	48.69	271.926	35.89	12.8	5.3	54	PASSED
16516.6	38.15	80.844	28.26	9.89	---	---	PASSED
22023.3	43.86	155.973	28.84	15.03	10.1	54	PASSED

Channel 132+136 / 5670MHz

Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11340.1	58.2	812.924	46.15	12.05	15.8	74	PASSED
17023.9	50.53	336.008	41.16	9.37	17.7	68	PASSED
22664.9	56.57	673.907	41.29	15.28	17.4	74	PASSED

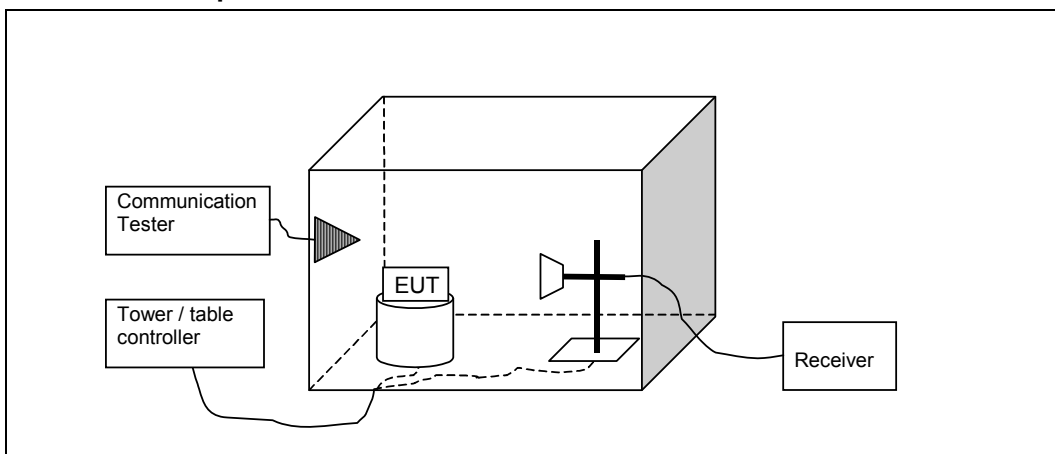
Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11340.1	50.79	346.218	38.74	12.05	3.2	54	PASSED
17023.9	37.31	73.333	27.94	9.37	---	---	PASSED
22664.9	43.81	155.114	28.53	15.28	10.2	54	PASSED

8. Band edge compliance of RF emissions (FCC §15.407 (b), RSS-210 A9.2)

EUT with DUT number	RM-892, DUT 17369
Accessories with DUT numbers	BL-4YW, DUT 17356 ; WH-208, DUT 17346 ; AC-50E, DUT 17350
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	22 / 40 / 101.2
Date of measurements	01-May-2013
Measured by	Kalle Hannila

8.1.1 Test setup



8.2. Test method and limit

The measurement is made according to KDB 789033 and IC standard RSS-210.
The measurement results are obtained as described below:

$$E [dB\mu V/m] = U_{RX} + A_{TOT}$$

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable loss, antenna factor and preamplifier gain ($A_{TOT} = L_{CABLES} + A_F - G_{PREAMP}$).

The limits in the table below are listed for the 100 MHz span around the band edges.

$$P [W] = (10 \text{ to power } (P [dBm / 10]) / 1000.$$

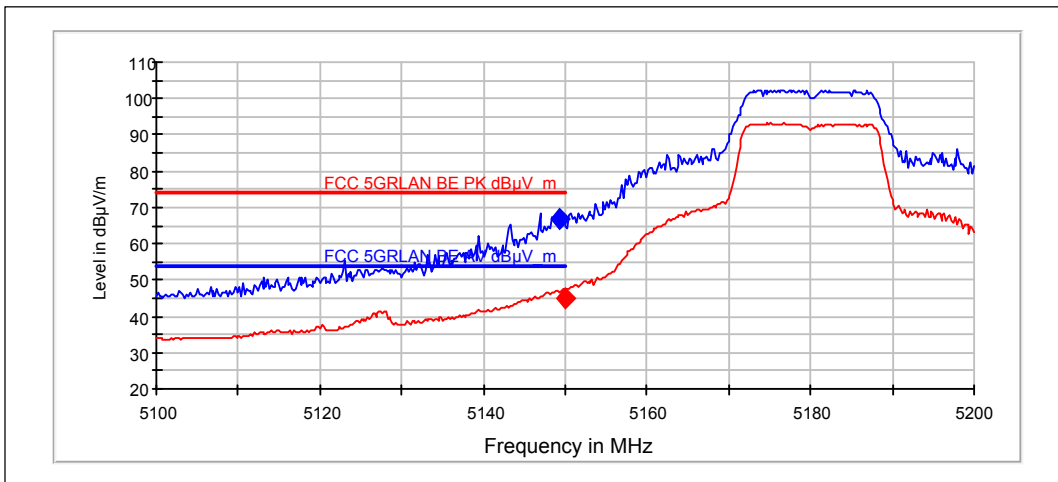
$$E [dB\mu V/m] = 20 * \text{LOG} ((\text{square root } (30 * P [W]) / 3 \text{ m}) * 1000000)$$

Frequency range [MHz]	Limit [dBm / MHz]	Limit dBuV/m @ 3m
5150 - 5250	$\leq 5.150 \text{ GHz}$ and ≥ 5.350 : 54 dBuV/m (avg), 74 dBuV/m (pk)	68.23
5250 - 5350	$\leq 5.150 \text{ GHz}$ and $\geq 5.350 \text{ GHz}$: 54 dBuV/m (avg), 74 dBuV/m (pk)	68.23
5470 - 5725	$\leq 5.460 \text{ GHz}$: 54 dBuV/m (avg), 74 dBuV/m (pk) 5.460 – 5.470 GHz: -27 dBm/MHz (pk)	68.23
5725 - 5825	5.825 – 5.835 GHz: -17 dBm/MHz (pk) $\geq 5.835 \text{ GHz}$: -27 dBm/MHz (pk)	68.23 78.23

8.3. 5 GHz RLAN test results

8.3.1 802.11g, BPSK modulation, 6 Mbps data rate.

Channel 36 / 5180MHz



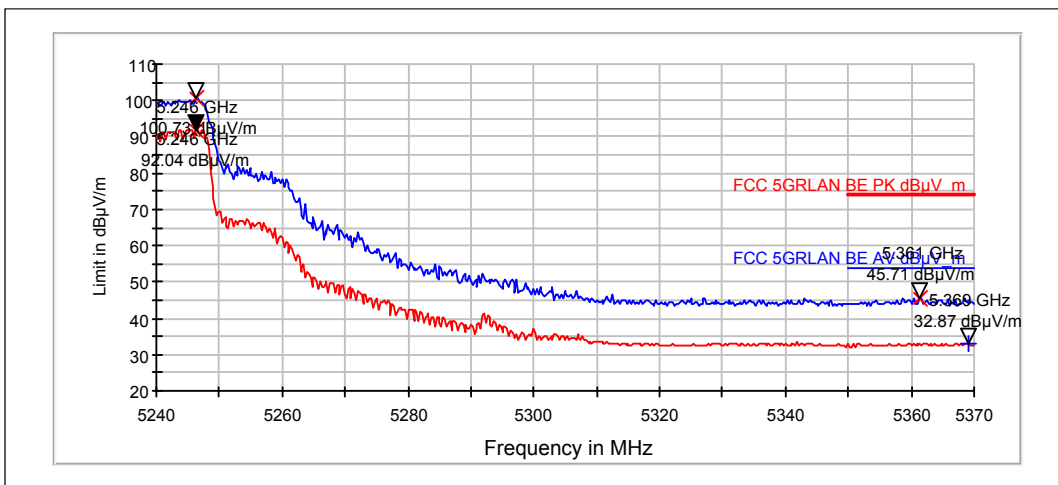
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5149.299	66.77	2179.466	61.63	5.15	7.2	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5149.9	44.85	174.824	39.7	5.15	9.1	54	PASSED

Channel 48 / 5240MHz



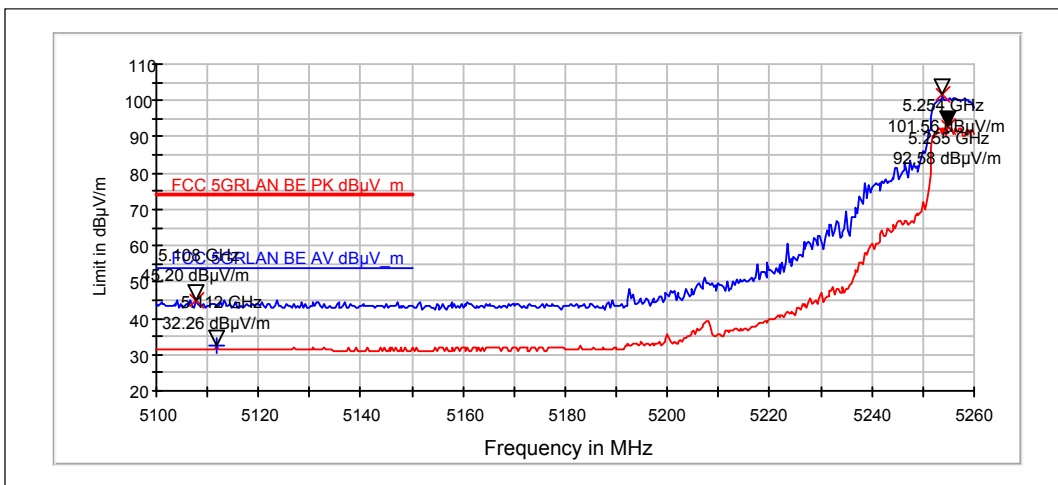
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Frequency2 [MHz]	PK2 [dBμV/m]	Results
5361	45.72	193.086	41.41	4.32	5246.253	100.73	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Frequency2 [MHz]	AV2 [dBμV/m]	Results
5369	32.87	44	28.52	4.35	5246.253	92.042	PASSED

Channel 52 / 5260MHz



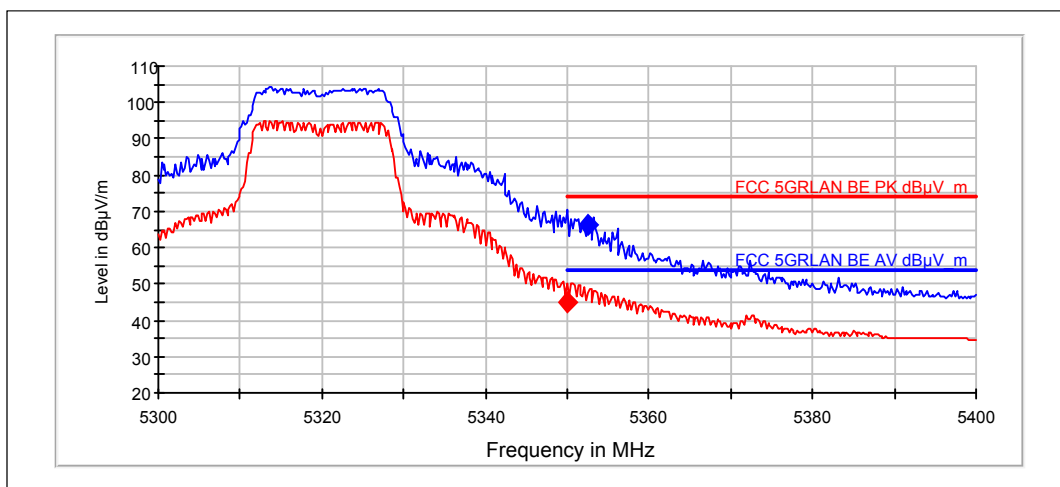
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Frequency2 [MHz]	PK2 [dBμV/m]	Results
5108	45.2	182.054	39.61	5.59	5253.908	101.56	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Frequency2 [MHz]	AV2 [dBμV/m]	Results
5112	32.26	41.03	26.71	5.55	5254.87	92.576	PASSED

Channel 64 / 5320MHz



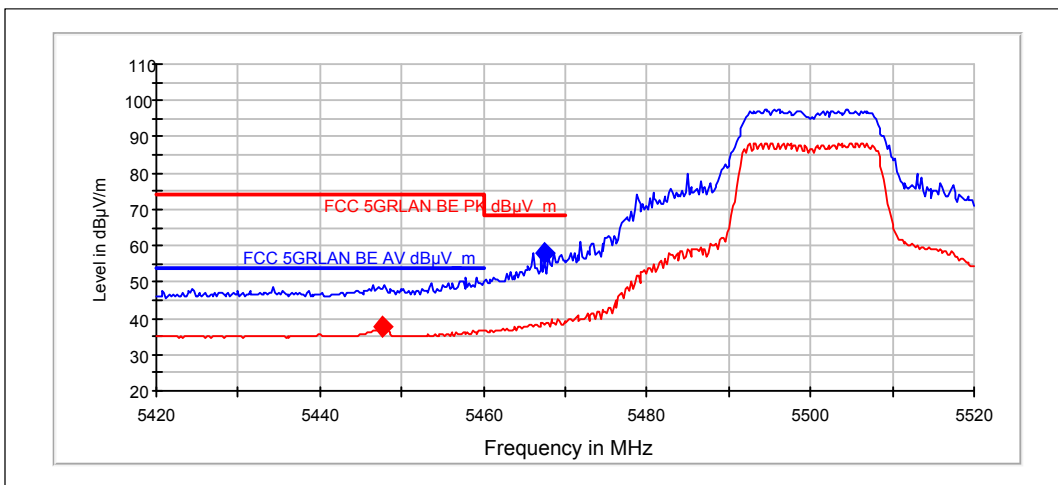
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5352.605	66.39	2085.691	62.12	4.27	7.6	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5350	45.09	179.618	40.83	4.26	8.9	54	PASSED

Channel 100 / 5500MHz



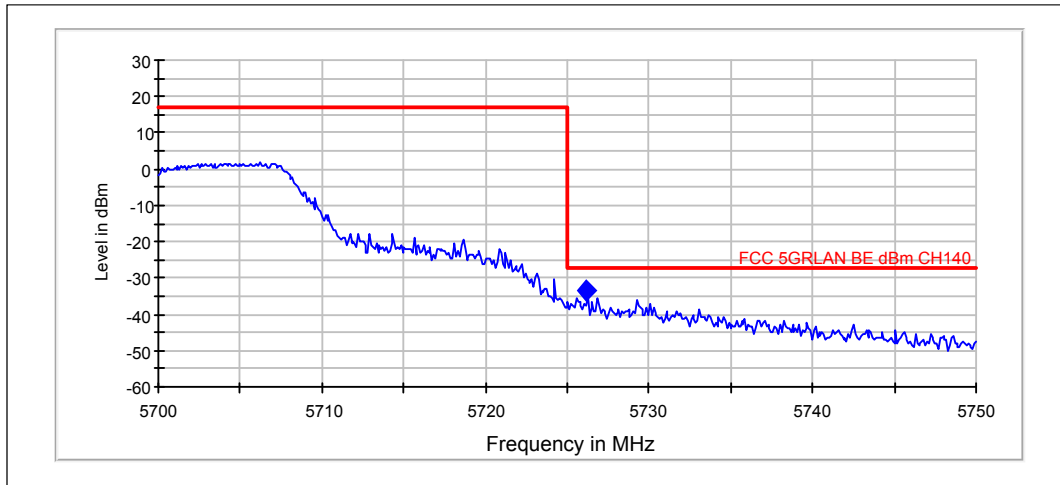
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5467.395	58.03	797.352	53.58	4.45	10.2	68	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5447.555	37.78	77.446	33.38	4.4	16.2	54	PASSED

Channel 140 / 5700MHz

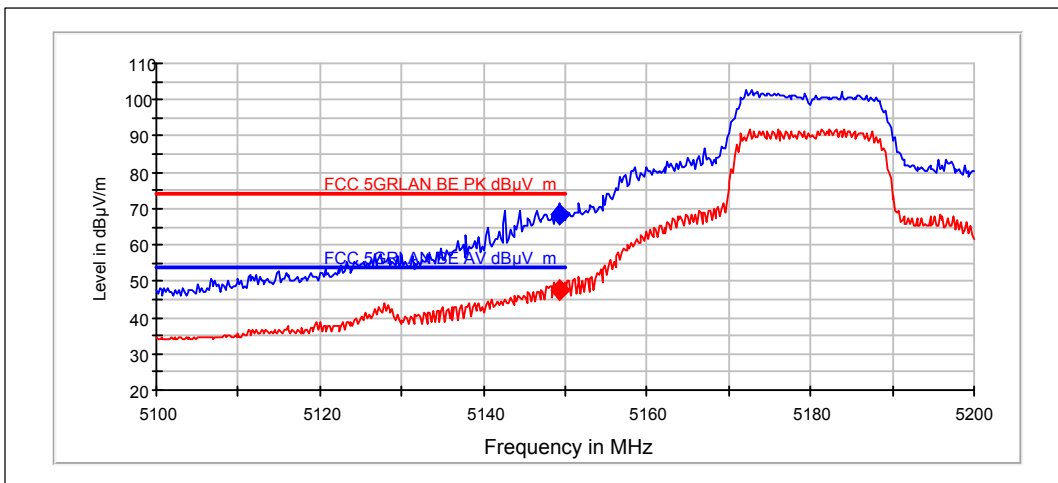


Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Margin	Limit [dBm]	Results
5726.106	-33.27	0.47076	-47.84	14.57	6.3	-27	PASSED

8.3.2 802.11n, QPSK modulation, 19.5 / 21.7 Mbps data rate.

Channel 36 / 5180MHz



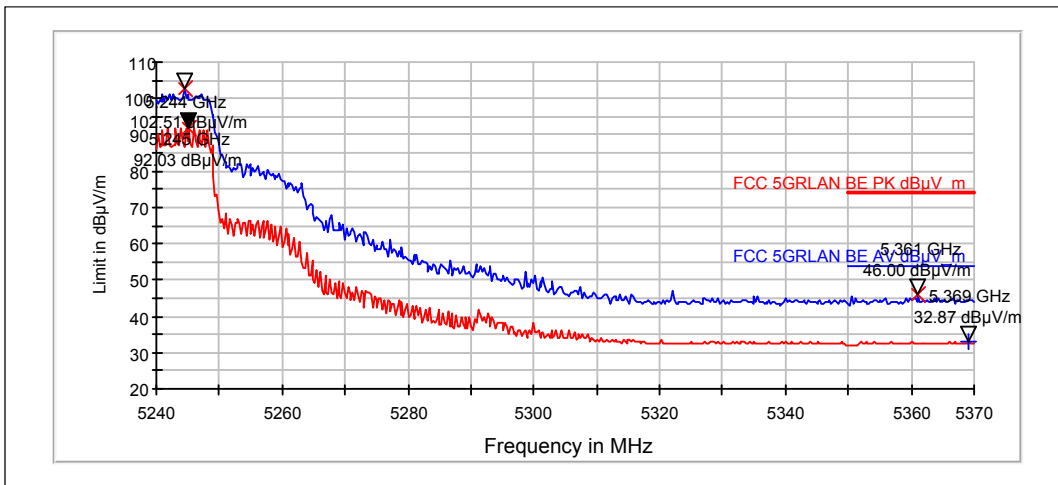
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5149.299	68.46	2649.415	63.32	5.15	5.5	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5149.399	47.42	235.017	42.27	5.15	6.6	54	PASSED

Channel 48 / 5240MHz



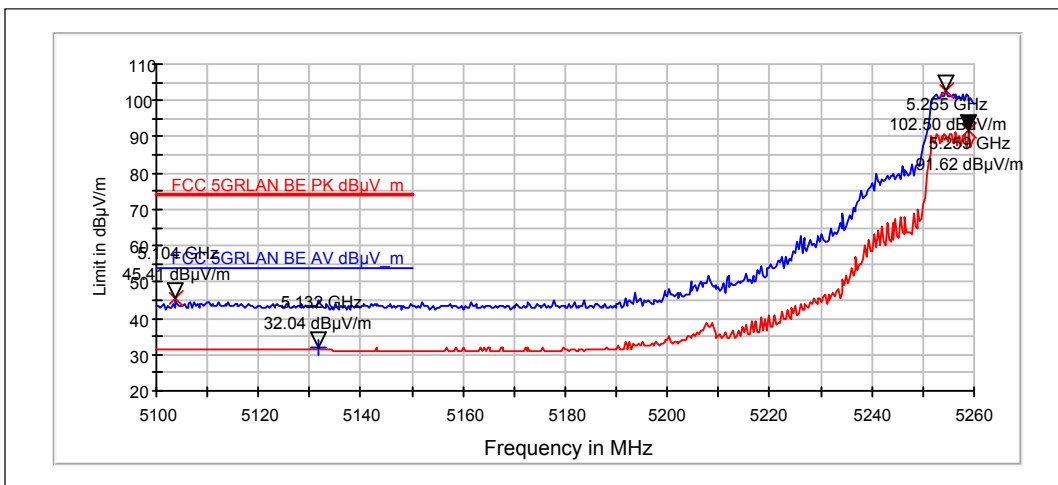
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U _{RX} [dBµV]	A _{TOT} [dB]	Frequency2 [MHz]	PK2 [dBµV/m]	Results
5361	46	199.595	41.69	4.31	5244.429	102.512	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBµV/m]	E [µV/m]	U _{RX} [dBµV]	A _{TOT} [dB]	Frequency2 [MHz]	AV2 [dBµV/m]	Results
5369	32.87	44	28.52	4.35	5245.21	92.031	PASSED

Channel 52 / 5260MHz



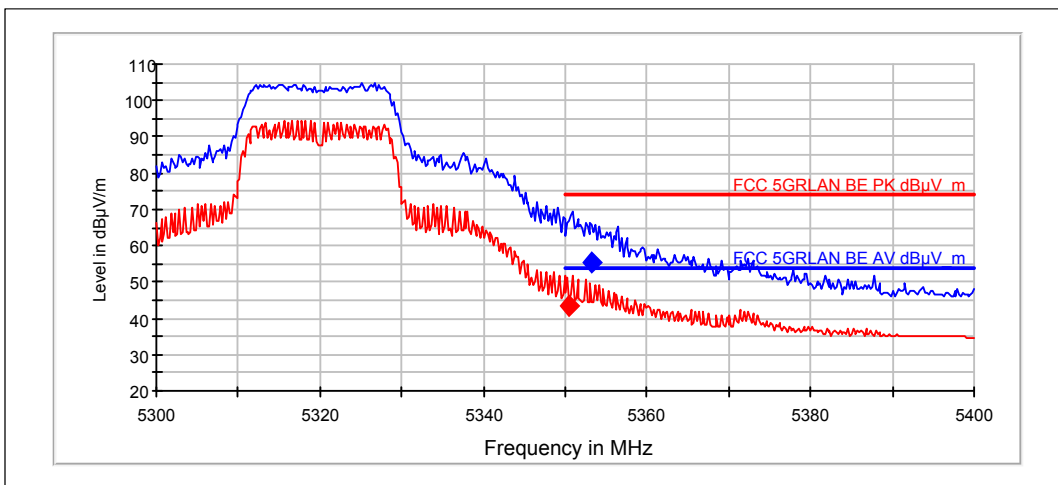
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Frequency2 [MHz]	PK2 [dBμV/m]	Results
5104	45.41	186.38	39.79	5.62	5254.549	102.501	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Frequency2 [MHz]	AV2 [dBμV/m]	Results
5132	32.04	40.004	26.71	5.33	5259.038	91.622	PASSED

Channel 64 / 5320MHz



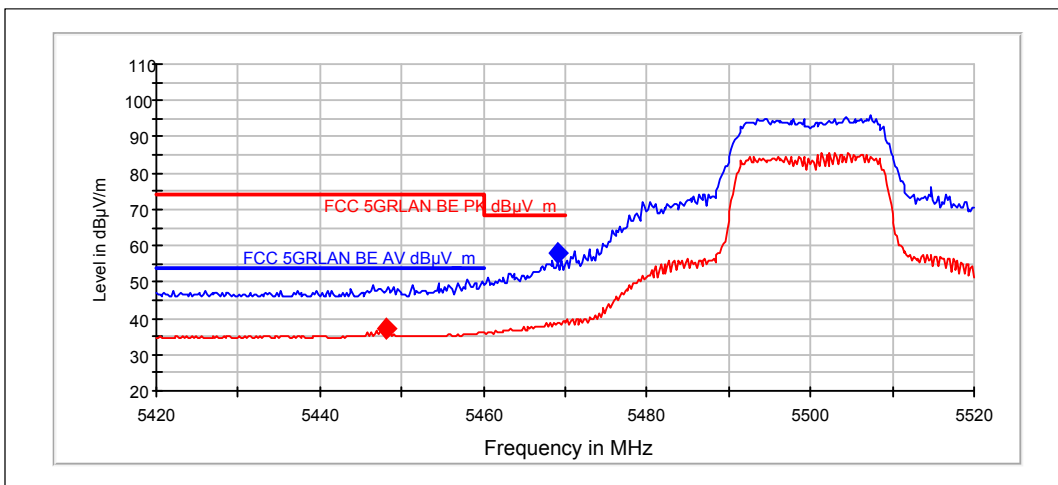
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5353.307	55.43	590.813	51.15	4.28	18.6	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5350.501	43.66	152.44	39.4	4.26	10.3	54	PASSED

Channel 100 / 5500MHz



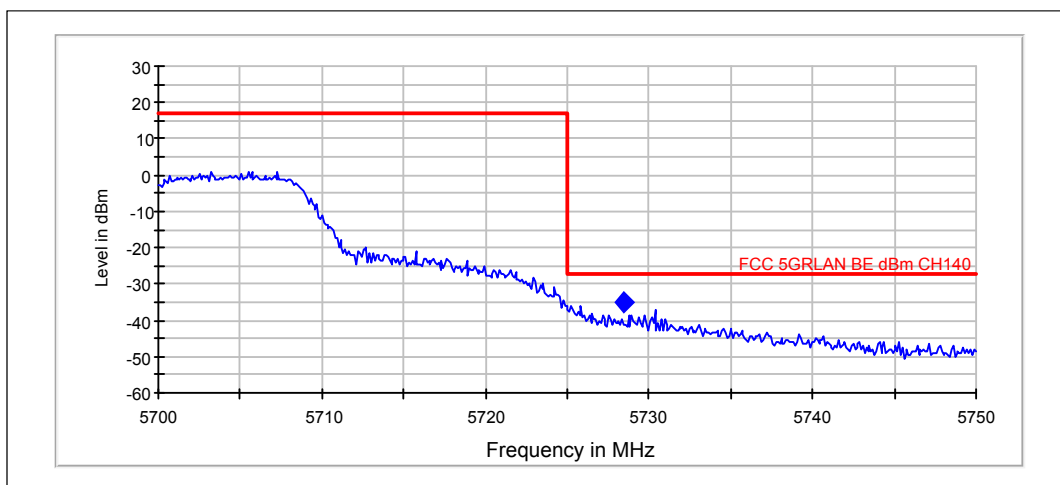
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5469.098	57.96	790.588	53.51	4.45	10.2	68	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5448.156	37.14	71.903	32.74	4.4	16.9	54	PASSED

Channel 140 / 5700MHz

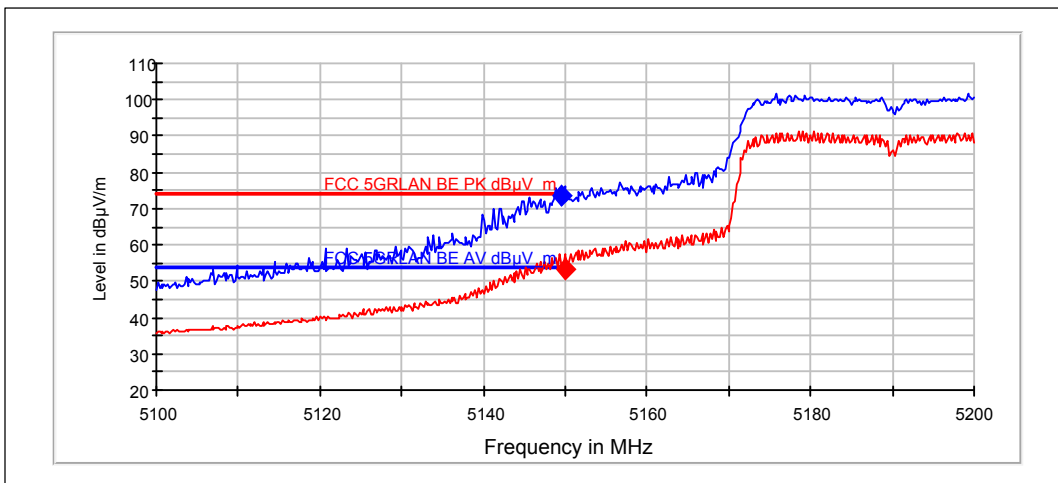


Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Margin	Limit [dBm]	Results
5728.511	-34.96	0.31893	-49.4	14.44	8	-27	PASSED

8.3.3 802.11n, BPSK modulation, 13.5 / 15.0 Mbps data rate.

Channel 36+40 / 5190MHz



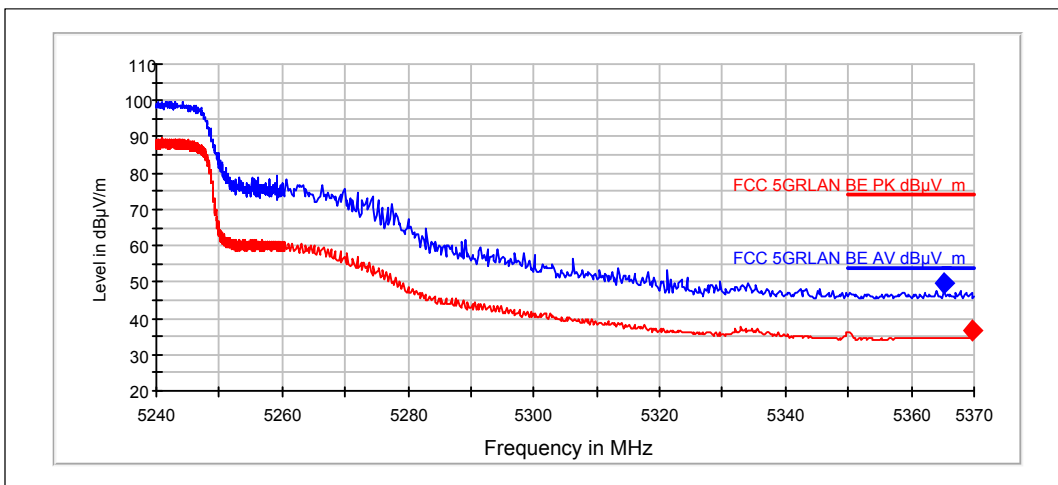
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5149.499	73.74	4861.273	68.59	5.15	0.3	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5149.9	53.5	473.206	48.35	5.15	0.5	54	PASSED

Channel 44+48 / 5230MHz



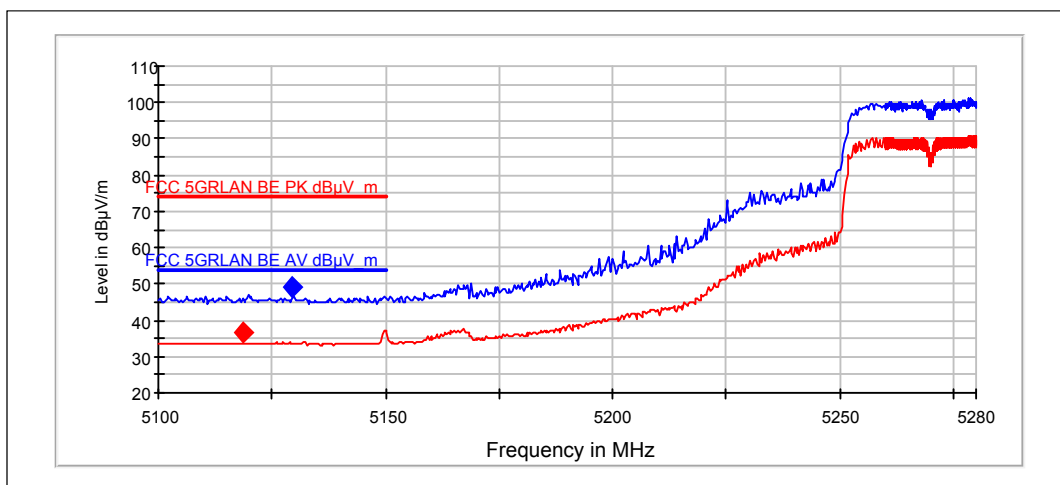
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5365.23	49.67	304.369	45.34	4.33	24.3	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5369.719	36.75	68.77	32.4	4.35	17.3	54	PASSED

Channel 52+56 / 5270MHz



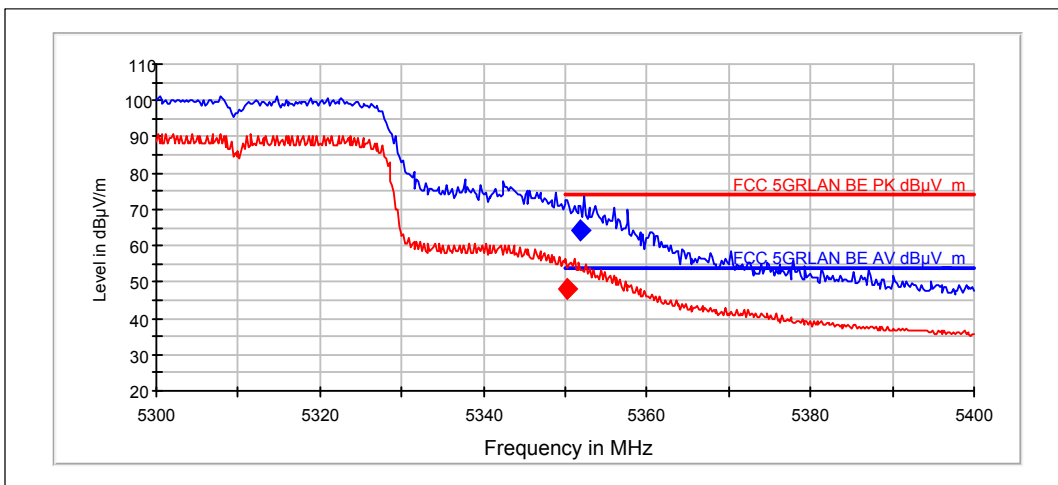
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5129.334	49.27	290.871	43.87	5.4	24.7	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5118.662	36.77	68.96	31.28	5.49	17.2	54	PASSED

Channel 60+64 / 5310MHz



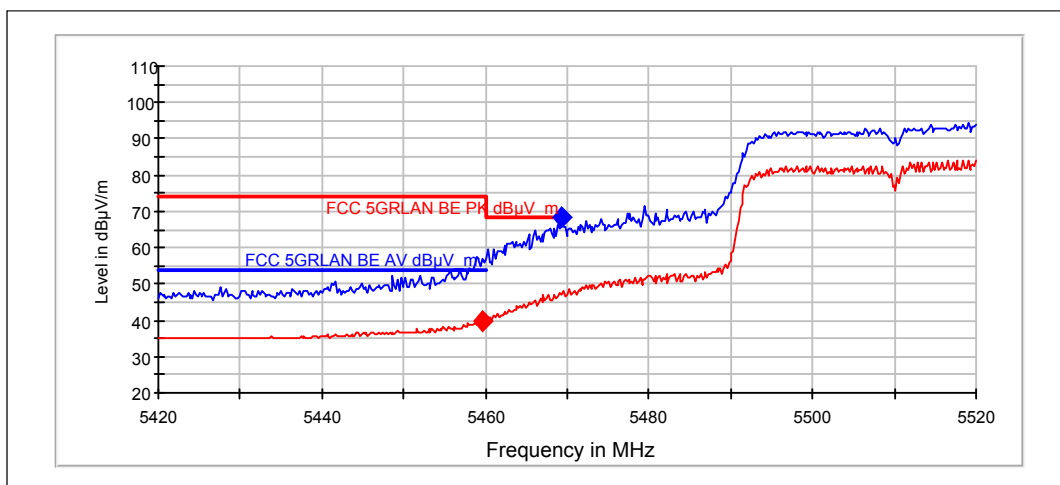
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5351.804	64.16	1614.916	59.89	4.27	9.8	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5350.2	48.34	261.306	44.08	4.26	5.7	54	PASSED

Channel 100+104 / 5510MHz



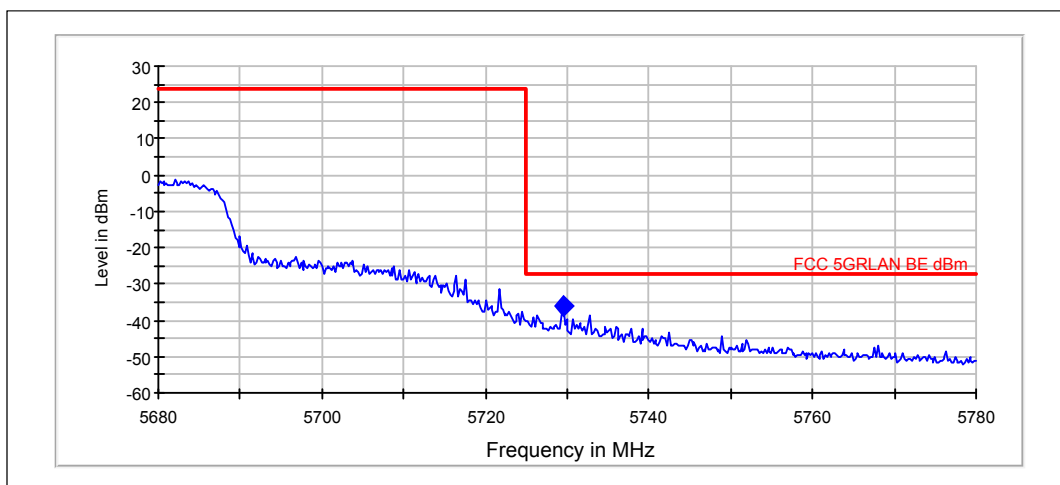
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5469.198	68.22	2574.839	63.77	4.45	0	68	

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5459.679	39.98	99.816	35.56	4.42	14	54	PASSED

Channel 132+136 / 5670MHz

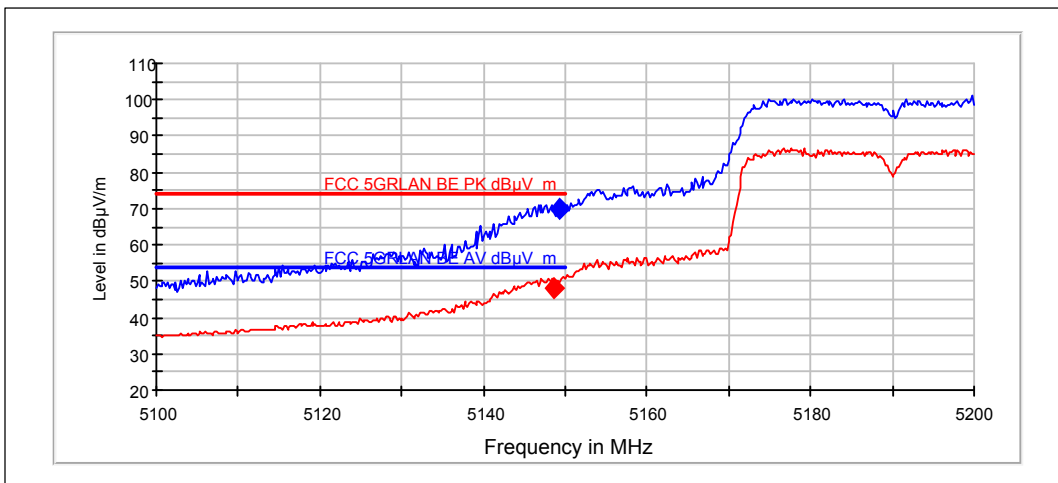


Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Margin	Limit [dBm]	Results
5729.463	-35.89	0.25751	-50.28	14.39	8.9	-27	PASSED

8.3.4 802.11n, 16QAM modulation, 81.0 / 90.0 Mbps data rate.

Channel 36+40 / 5190MHz



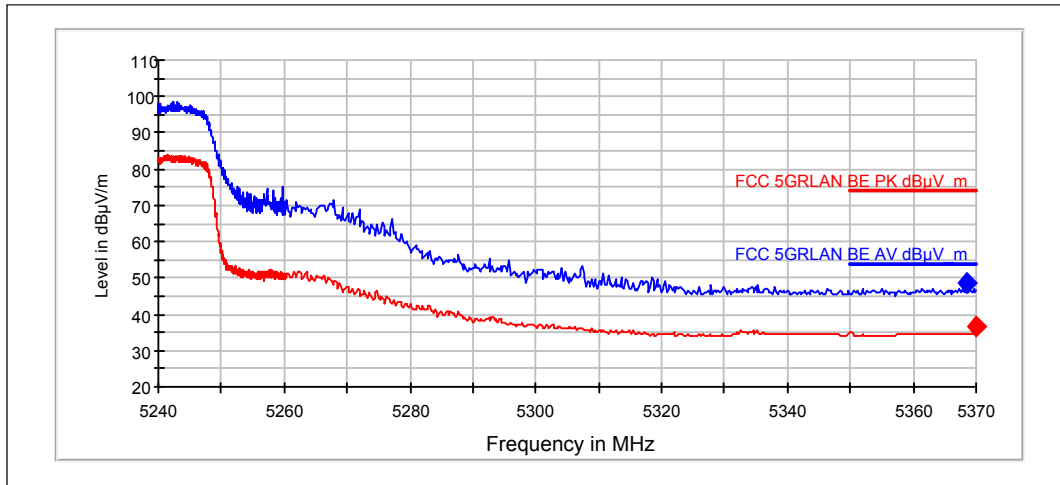
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5149.299	70.15	3218.474	65.01	5.15	3.8	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5148.697	48.06	252.988	42.92	5.14	5.9	54	PASSED

Channel 44+48 / 5230MHz



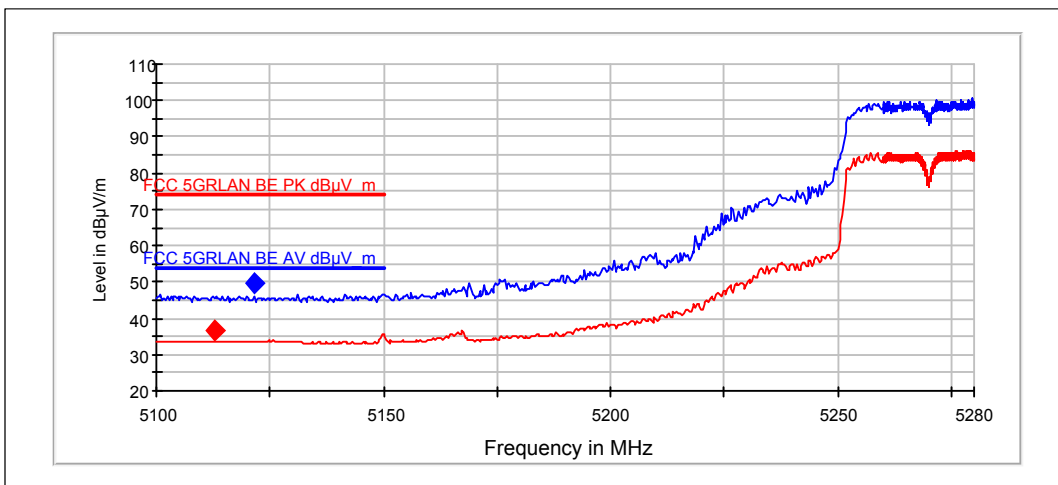
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5368.557	48.76	274.252	44.41	4.35	25.2	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5370	36.75	68.778	32.39	4.36	17.3	54	PASSED

Channel 52+56 / 5270MHz



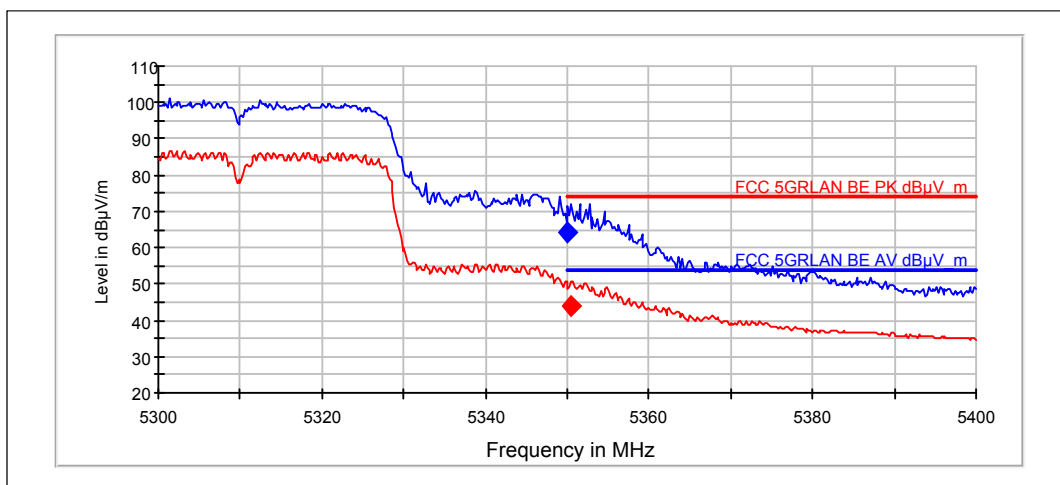
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5121.468	49.63	303.18	44.17	5.46	24.4	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5112.7	36.42	66.229	30.88	5.54	17.6	54	PASSED

Channel 60+64 / 5310MHz



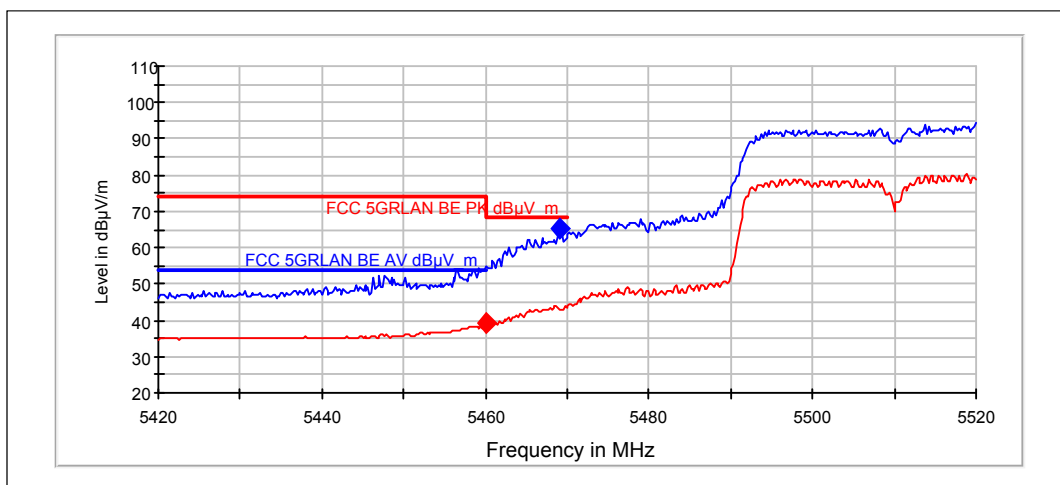
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5350.1	64.45	1669.552	60.19	4.26	9.5	74	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5350.401	44.12	160.602	39.86	4.26	9.9	54	PASSED

Channel 100+104 / 5510MHz



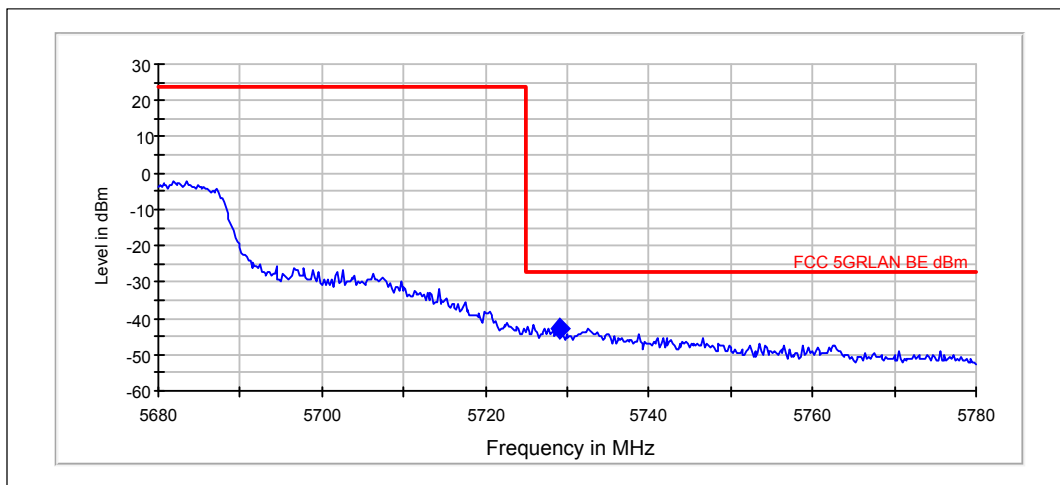
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5469.098	65.44	1869.606	60.99	4.45	2.8	68	PASSED

Average (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5459.98	39.49	94.287	35.07	4.43	14.5	54	PASSED

Channel 132+136 / 5670MHz



Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Margin	Limit [dBm]	Results
5729.012	-42.97	0.05048	-57.39	14.42	16	-27	PASSED

9. Test Equipment

9.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1759	LISN 50 μ H	ESH3-Z5	R&S	15C, 15B
1916	Communication Tester	CMTA84	R&S	15B
1992	Signal Generator	83630B	Agilent	15C, 15B
1999	Receiver	ESIB26	R&S	22/24/27, 15C, 15B
2039	Power Supply	PL330QMD	Thurlby	15C, 15B
2059	V-network	ESH3-Z6	R&S	-
2097	Pulse Limiter	ESH3-Z2	R&S	15C, 15B
2156	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2180	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2206	Signal Generator	SMX	R&S	15C, 15B
2347	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2352	Spectrum Analyzer	FSP-30	R&S	22/24/27, 15C
2359	Temperature Test Chamber	VT4002	Vötsch	22/24/27
2388	Bluetooth Tester	CBT	R&S	15B
2389	Signal Generator	SMJ 100A	R&S	15B
2390	Directional Coupler	DC2600	AR	-
6009	GPS Antenna	SA-700	Chronos	15C
6010	GPS Network amplifier	NLA20FPDC	GPS Networking, Inc	15C

Eq. No	Equipment	Type	Manufacturer	Used in
6011	GPS signal Splitter	LDCBS1x4	GPS Networking, Inc	15C
6012	CDN	CDN USB/c	Teseq	-
6015	Receiver	ESI	R&S	22/24, 15C, 15B
6036	Data Logger	175-H2	Testo	22/24/27, 15C, 15B
6038	Data Logger	Testo 580	Testo	22/24/27, 15C, 15B
6039	USB Interface	5541765	Testo	22/24/27, 15C, 15B
6044	V-network	ESH3-Z6	R&S	-
6045	Power splitter	11667B	Agilent	22/24/27, 15C
6046	Attenuator 10dB	8493C	Agilent	22/24/27, 15C
6047	Attenuator 20dB	8493C	Agilent	22/24/27, 15C
6094	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
6096	EMC Analyzer	E7405A	HP	-
6098	Signal Generator	8648C	Agilent	-
6103	Bluetooth tester	CBT	R&S	15B
6113	Signal Generator	SMF100A	R&S	22/24/27, 15C 15B
6120	Thermal Chamber	WT 20/40	Weiss	22/24/27, 15C 15B
6121	Power Splitter	HP11667B	Agilent	22/24/27, 15C 15B
6122	Power Splitter	HP11667B	Agilent	22/24/27, 15C 15B
6134	Attenuator 10dB	BW-S10-2W263+	Mini-Circuits	22/24/27, 15C
6136	Attenuator 20dB	BW-S20-2W263+	Mini-Circuits	22/24/27, 15C
10479	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B

9.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
1917	Communication Tester	CMTA84	R&S	15B
1984	Antenna	BBHA 9120 D	Schwarzbeck	22/24/27, 15C, 15B
2009	Signal Generator	SMP 22	R&S	22/24/27, 15C, 15B
2027	CDN	M2 (modified) DC1	MEB	22/24/27, 15C, 15B
2028	CDN	M3 (modified) DC2	MEB	22/24/27, 15C, 15B
2029	Power Supply	PL330	Thurlby	22/24/27, 15C
2043	Band Reject Filter	WRCA824/849-0.2-6SS	Wainwright	22
2135	CDN	CDN 801-M3	Lüthi	22/24/27, 15C, 15B
2140	Antenna	EMCO93110B	EMCO	22/24/27, 15C
2142	Antenna	3146	EMCO	22/24/27, 15C
2156	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2176	CDN	CDN 801-M3	Lüthi	22/24/27, 15C, 15B
2180	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2347	Communication Tester	CMU200	R&S	22/24/27, 15C, 15B
2353	Receiver	ESIB26	R&S	22/24/27, 15C, 15B
2357	Band Reject Filter	WRCG2400/2483-2390/2493-35/10SS	Wainwright	15C
2361	Anechoic Chamber	3 m Semi / Full Anechoic Chamber	Euroshield	22/24/27, 15C, 15B
2364	Band Reject Filter	WRCG1877/1883 - 1870/1890-40/6SS	Wainwright	24
2384	Band Reject Filter	WRCG832/838-825/845-40/5SS	Wainwright	22
2388	Bluetooth Tester	CBT	R&S	15B
2389	Signal Generator	SMJ 100A	R&S	15B
2391	Band Reject Filter	WRCG1729.4/1735.4-1722.4/1742.4-40/6SS	Wainwright	27
6009	GPS Antenna	SA-700	Chronos	15C
6010	GPS Network amplifier	NLA20FPDC	GPS Networking, Inc	15C

Eq. No	Equipment	Type	Manufacturer	Used in
6011	GPS signal Splitter	LDCBS1x4	GPS Networking, Inc	15C
6014	Substitute Calibration Cable	Sucoflex 104PB	Suhner	-
6017	Antenna	SBA 9113	Schwarzbeck	22 / 24 / 27
6037	Data Logger	175-H2	Testo	22/24/27, 15C, 15B
6038	Data Logger	Testo 580	Testo	22/24/27, 15C, 15B
6039	USB Interface	5541765	Testo	22/24/27, 15C, 15B
6087	Antenna	BBHA 9120D	Scharzbeck	22/24/27, 15C
6088	Antenna	VUBA 9117	Scharzbeck	22/24/27, 15C
6089	Antenna	HFH2-Z2	R&S	15C, 15B
6094	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
6103	Bluetooth tester	CBT	R&S	15B
6113	Signal Generator	SMF100A	R&S	22/24/27, 15C 15B
6115	Open switch and control unit	OSP 130	R&S	22/24/27, 15C 15B
6116	Open switch and control unit	OSP 150	R&S	22/24/27, 15C 15B
6130	Notch Filter	WRCD1880-1.1.25/50-10SS	Wainwright	22/24/27
6131	Notch Filter	WRCT902.4-0.4/40-8SS	Wainwright	-
6135	Notch Filter	WRCJV2531/2539-2523/2547-60/12SS	Wainwright	22/24/27
10479	Communication Tester	CMW500	R&S	22/24/27, 15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	15C, 15B
-	RF immunity / Emission Software	EMC32	R&S	22/24/27, 15C, 15B