

FCC Part 15E Compliance Test Report

Test Report no.:	FCC15E_RM-878_10.docx	Date of Report:	25-Sep-2012
Number of pages:	113	Customer's Contact person:	Jerald Williams
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, Inc. 16620 West Bernardo Drive San Diego, CA 92127 USA Tel. +1 858 831 5000 Fax. +1 858 385 1598
FCC listing no.:	533467		
IC recognition no.:	661V-1		
Tested devices/ accessories:	Phone RM-878 / Battery BP-4W / AC-Charger AC-50U / Headset WH-902		
FCC ID:	QMNRM-878	IC:	661X-RM878
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, RSS-210 (Issue 8, December 2010). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		
Documentation:	The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test Results:	The EUT complies with the requirements in respect of all parameters subject to the test. The test results relate only to devices specified in this document		
Date and signature for the contents:			

Kalle Hannila, Engineer, EMC

1. Summary for FCC Part 15E Compliance Test Report

Date of receipt	03-Sep-2012
Testing completed	21-Sep-2012
The customer's contact person	Jerald Williams
Test Plan referred to	T:\Projects\RM-878\TestPlan\RS_testplan_RM-878_EMC_FCC_SAR.xlsm
Notes	-
Document name	T:\Projects\RM-878\EMC\FCC15E_RM-878_10.docx

1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:
GSM/WCDMA/WLAN/Bluetooth
The EUT is tested with maximum rated TX power.

Devices under tests

Product	Type	SN	HW	MV	SW	DUT
Phone	RM-878	-	0205	-	1530.0035.8516.9754.12312	16666
Battery	BP-4W	-	-	-	-	16667
AC-Charger	AC-50U	409049215427050147660675620	-	-	-	16562
Headset	WH-902	209E2R	-	-	-	16563

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
FAILED
NP

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

CONTENTS

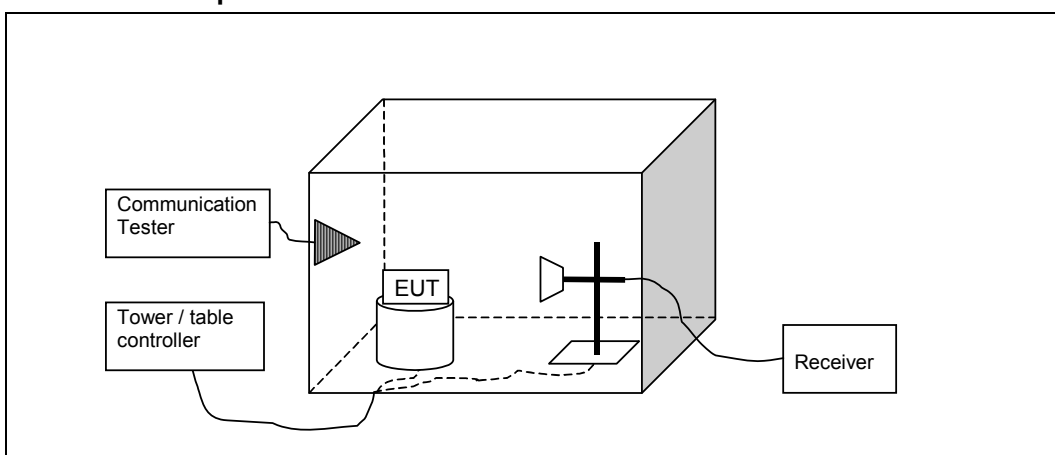
1. Summary for FCC Part 15E Compliance Test Report.....	2
1.1. EUT and Accessory Information.....	2
1.2. Summary of Test Results.....	2
2. Spurious radiated emissions (FCC §15.407 (b), RSS-210 A9.2).....	5
2.2. Test method and limit.....	5
2.3. 5 GHz RLAN test results	7
3. Band edge compliance of RF emissions (FCC §15.407 (b), RSS-210 A9.2).....	20
3.2. Test method and limit.....	20
3.3. 5 GHz RLAN test results	21
4. Maximum conducted output power (FCC §15.407 (a), RSS-210 A9.2).....	36
4.1. Test Setup.....	36
4.2. Test method and limit.....	36
4.3. 5 GHz RLAN Test results	37
5. Peak excursion (FCC §15.407 (a), RSS-210 A9.2).....	56
5.1. Test Setup.....	56
5.2. Test method and limit.....	56
5.3. 5 GHz RLAN Test results	57
6. 26 dB bandwidth	75
6.1. Test Setup.....	75
6.2. Test method and limit.....	75
6.3. 5 GHz RLAN Test results	76
7. Peak power spectral density (FCC §15.407(a), RSS-210 A9.2).....	94
7.1. Test Setup.....	94
7.2. Test method and limit.....	94
7.3. 5 GHz RLAN Test results	95
8. AC powerline conducted emissions (FCC §15.407 (b) (6), RSS-210 A9.2)	107
8.1. Test Setup.....	107
8.2. Test method and limit.....	107
8.3. 5 GHz RLAN Test results	108
9. Test Equipment.....	112

9.1.	Conducted measurements	112
9.2.	Radiated measurements	112

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

EUT with DUT number	RM-878, DUT 16666
Accessories with DUT numbers	BP-4W, DUT 16667 ; AC-50U, DUT 16562 ; WH-902, DUT 16563
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	19 / 38 / 101.3
Date of measurements	18-Sep-2012
Measured by	Kalle Hannila / Jari Keto

2.1.1 Test setup



2.2. 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

2.3. 5 GHz RLAN test results

2.3.1 OFDM, BPSK modulation, 9 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
5148.393	61.15	1141.038	59.48	1.67	7.1	68.2	PASSED
10358.5	66.84	2198.113	49.76	17.08	11.4	78.2	PASSED
15541.8	51.17	361.826	40.98	10.19	27	78.2	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
31.98	33.3	46.238	38.62	-5.32	-4.3	40	PASSED
31.98	35.7	60.975	41.02	-5.32	-3.7	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
5148.393	36.15	64.158	34.48	1.67	17.9	54	PASSED
10358.5	51.53	377.051	34.45	17.08	---	---	PASSED
15541.8	38.6	85.143	28.41	10.19	15.4	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
10521.1	68.83	2764.713	52.79	16.05	9.4	78.2	PASSED
10522.542	68.18	2563.894	52.14	16.04	10	78.2	PASSED
15780.8	51.69	384.238	41.72	9.98	26.5	78.2	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
177.792	29.04	28.311	47.19	-18.15	14.5	43.5	PASSED
177.805	29.45	29.682	47.6	-18.15	14	43.5	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
10521.1	52.36	414.811	36.32	16.05	---	---	PASSED
10522.542	51.76	387.391	35.72	16.04	---	---	PASSED
15780.8	38.07	80.103	28.1	9.98	15.9	54	PASSED

Channel 48 / 5124MHz

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
10479.5	56.8	691.672	40.61	16.19	21.4	78.2	PASSED
11529.662	58.55	846.545	41.1	17.45	19.6	78.2	PASSED
15721.2	50.7	342.571	40.73	9.97	27.5	78.2	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
164.978	29.14	28.632	48.37	-19.23	14.4	43.5	PASSED
177.805	28.31	26.035	46.46	-18.15	15.2	43.5	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
10479.5	43.81	155.007	27.62	16.19	---	---	PASSED
11529.662	45.45	187.348	28	17.45	8.5	54	PASSED
15721.2	38.06	79.965	28.09	9.97	15.9	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
10600.5	67.87	2474.287	51.39	16.48	10.3	78.2	PASSED
15900.9	50.47	333.964	40.6	9.87	27.7	78.2	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
176.492	28.78	27.466	46.69	-17.91	14.7	43.5	PASSED
177.745	28.63	27.018	46.77	-18.14	14.9	43.5	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
10600.5	52.83	437.824	36.35	16.48	1.2	54	PASSED
15900.9	37.56	75.527	27.69	9.87	16.4	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
10638.3	72.93	4429.962	56.25	16.68	5.3	78.2	PASSED
10640.983	72.84	4384.802	56.1	16.74	5.4	78.2	PASSED
15960.4	50.63	339.821	40.73	9.9	27.6	78.2	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
164.978	29.35	29.343	48.58	-19.23	14.2	43.5	PASSED
178.195	28.28	25.945	46.5	-18.22	15.2	43.5	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
15960.4	37.15	72.003	27.25	9.9	16.9	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
10998.9	69.86	3111.716	52.92	16.94	8.3	78.2	PASSED
16499.5	50.04	317.578	40.11	9.93	28.2	78.2	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
164.978	28.57	26.829	47.8	-19.23	14.9	43.5	PASSED
176.485	28.58	26.857	46.49	-17.91	14.9	43.5	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
16499.5	36.9	69.992	26.97	9.93	---	---	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
11160.921	66.56	2127.404	50.14	16.42	11.6	78.2	PASSED
16740.8	51.27	366.058	41.22	10.05	26.9	78.2	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
164.558	28.87	27.772	48.1	-19.23	14.6	43.5	PASSED
176.515	28.16	25.589	46.08	-17.92	15.3	43.5	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
11160.921	52.28	411.244	35.86	16.42	1.7	54	PASSED
16740.8	37.78	77.446	27.73	10.05	---	---	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
11399.3	65.6	1905.241	48.22	17.38	12.6	78.2	PASSED
11402.606	66.63	2146.347	49.23	17.4	11.6	78.2	PASSED
17098	50.69	342.334	39.99	10.71	27.5	78.2	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
176.485	28.09	25.372	46	-17.91	15.4	43.5	PASSED
177.782	28.42	26.357	46.57	-18.15	15.1	43.5	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
11399.3	50.67	341.547	33.29	17.38	3.3	54	PASSED
11402.606	49.9	312.572	32.5	17.4	4.1	54	PASSED
17098	37.54	75.327	26.84	10.71	---	---	PASSED

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
10398.4	68.86	2773.959	52.01	16.85	9.3	78.2	PASSED
15601.8	51.24	364.544	41.11	10.13	27	78.2	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
164.588	29.08	28.428	48.31	-19.23	14.4	43.5	PASSED
177.775	27.8	24.544	45.95	-18.15	15.7	43.5	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
10398.4	53.16	454.726	36.31	16.85	---	---	PASSED
15601.8	38.45	83.695	28.32	10.13	15.5	54	PASSED

2.3.2 n-mode, 20 MHz CBW, 64-QAM modulation, 52.0 / 57.8 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
5149.999	59.91	989.236	58.26	1.66	8.3	68.2	PASSED
10361.2	67.21	2294.563	50.14	17.08	11	78.2	PASSED
15541.7	51.29	366.986	41.1	10.19	26.9	78.2	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
164.918	28	25.122	47.23	-19.23	15.5	43.5	PASSED
176.492	28.53	26.702	46.44	-17.91	15	43.5	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
5149.999	37.65	76.287	36	1.66	16.4	54	PASSED
10361.2	52.58	425.598	35.51	17.08	---	---	PASSED
15541.7	38.56	84.713	28.37	10.19	15.4	54	PASSED

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
10401.1	69.77	3080.35	52.92	16.85	8.4	78.2	PASSED
15600.7	51.23	364.334	41.1	10.13	27	78.2	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
164.978	28.92	27.938	48.15	-19.23	14.6	43.5	PASSED
177.775	28.28	25.948	46.43	-18.15	15.2	43.5	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
15600.7	38.43	83.416	28.3	10.13	15.6	54	PASSED

Channel 48 / 5124MHz

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
10468.334	65.01	1779.303	48.73	16.28	13.2	78.2	PASSED
10478.1	70.92	3516.414	54.71	16.21	7.3	78.2	PASSED
15718.2	51.32	367.917	41.35	9.97	26.9	78.2	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
164.588	28.95	28.009	48.18	-19.23	14.6	43.5	PASSED
177.782	27.89	24.788	46.04	-18.15	15.6	43.5	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
10468.334	50.23	324.526	33.95	16.28	---	---	PASSED
15718.2	38.01	79.552	28.04	9.97	16	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
10521	70.34	3288.138	54.3	16.05	7.9	78.2	PASSED
10521.142	69.37	2941.034	53.33	16.05	8.8	78.2	PASSED
15781.1	50.95	352.899	40.98	9.97	27.2	78.2	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
164.588	28.92	27.919	48.15	-19.23	14.6	43.5	PASSED
178.225	27.97	25.029	46.2	-18.23	15.5	43.5	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
15781.1	37.97	79.15	28	9.97	16	54	PASSED

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
10601.8	69.16	2871.442	52.66	16.5	9	78.2	PASSED
15899.9	50.1	319.963	40.23	9.87	28.1	78.2	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
164.588	28.98	28.119	48.21	-19.23	14.5	43.5	PASSED
177.775	27.89	24.794	46.04	-18.15	15.6	43.5	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
15899.9	37.52	75.145	27.65	9.87	16.5	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
10640.7	70.06	3183.831	53.33	16.73	8.1	78.2	PASSED
10646.091	70.44	3327.745	53.6	16.84	7.8	78.2	PASSED
15959.6	50.88	349.945	40.98	9.9	27.3	78.2	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
165.008	29.14	28.632	48.37	-19.23	14.4	43.5	PASSED
177.782	27.94	24.934	46.09	-18.15	15.6	43.5	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
15959.6	37.09	71.524	27.19	9.9	16.9	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
10999.7	58.42	833.777	41.47	16.95	19.8	78.2	PASSED
16499.2	50.41	331.513	40.48	9.93	27.8	78.2	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
163.274	27.23	22.985	46.44	-19.21	16.3	43.5	PASSED
164.978	28.64	27.049	47.87	-19.23	14.9	43.5	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
10999.7	45.38	185.716	28.43	16.95	8.6	54	PASSED
16499.2	36.93	70.202	27	9.93	---	---	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
11161	65.78	1945.808	49.36	16.42	12.4	78.2	PASSED
11162.929	66.29	2063.716	49.88	16.41	11.9	78.2	PASSED
16739.2	50.42	332.009	40.35	10.07	27.8	78.2	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
164.588	28.92	27.935	48.15	-19.23	14.6	43.5	PASSED
176.515	27.62	24.044	45.54	-17.92	15.9	43.5	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
11161	51.39	371.279	34.97	16.42	2.6	54	PASSED
11162.929	50.44	332.774	34.03	16.41	3.6	54	PASSED
16739.2	37.76	77.25	27.69	10.07	---	---	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
11396.994	64.68	1714.549	47.35	17.34	13.5	78.2	PASSED
11400.4	59.85	982.313	42.46	17.39	18.4	78.2	PASSED
17101	50.58	338.182	39.85	10.73	27.6	78.2	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
164.978	29.06	28.376	48.29	-19.23	14.4	43.5	PASSED

177.775	28.04	25.226	46.19	-18.15	15.5	43.5	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
11396.994	49.34	292.954	32.01	17.34	4.7	54	PASSED
11400.4	46.44	209.894	29.05	17.39	7.6	54	PASSED
17101	37.55	75.448	26.82	10.73	---	---	PASSED

2.3.1 n-mode, 40 MHz CBW, DPSK modulation, 13.5 / 15 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
10380.166	62.13	1278.056	45.17	16.96	16.1	78.2	PASSED
10380.4	60.95	1116.092	43.99	16.96	17.2	78.2	PASSED
15568.7	52.54	423.594	42.46	10.08	25.7	78.2	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
164.958	28.79	27.523	48.02	-19.23	14.7	43.5	PASSED
177.762	28.42	26.348	46.56	-18.14	15.1	43.5	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
10380.166	47.97	250.323	31.01	16.96	---	---	PASSED
10380.4	47.59	239.635	30.63	16.96	---	---	PASSED
15568.7	38.38	82.995	28.3	10.08	15.6	54	PASSED

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

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
10457.418	60.87	1105.605	44.52	16.35	17.3	78.2	PASSED
10458.2	61	1121.76	44.65	16.35	17.2	78.2	PASSED
15568.9	51.06	357.355	40.98	10.08	27.1	78.2	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
164.958	28.91	27.887	48.14	-19.23	14.6	43.5	PASSED

178.205	28.53	26.693	46.76	-18.23	15	43.5	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
10457.418	47.19	228.744	30.84	16.35	---	---	PASSED
10458.2	47.23	229.747	30.88	16.35	---	---	PASSED
15568.9	38.36	82.766	28.28	10.08	15.6	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
10539.4	63.24	1452.446	47.22	16.02	15	78.2	PASSED
10539.682	62.87	1390.913	46.85	16.02	15.3	78.2	PASSED
15811.5	51.02	355.795	41.1	9.92	27.2	78.2	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
164.958	28.72	27.287	47.95	-19.23	14.8	43.5	PASSED
178.205	28.75	27.368	46.98	-18.23	14.8	43.5	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
10539.4	49.1	285.167	33.08	16.02	---	---	PASSED
10539.682	48.39	262.603	32.37	16.02	---	---	PASSED
15811.5	37.75	77.179	27.83	9.92	16.2	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
10620.1	62.41	1319.168	45.97	16.45	15.8	78.2	PASSED
10621.742	63.53	1501.931	47.1	16.43	14.7	78.2	PASSED
15928.3	50.86	349.1	41.1	9.76	27.3	78.2	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
164.988	28.65	27.064	47.88	-19.23	14.9	43.5	PASSED
177.785	28.27	25.9	46.42	-18.15	15.2	43.5	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
10620.1	48.55	267.701	32.11	16.45	5.4	54	PASSED
10621.742	48.79	275.106	32.36	16.43	5.2	54	PASSED
15928.3	37.4	74.131	27.64	9.76	16.6	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
11101.3	63.08	1425.115	46.09	16.99	15.1	78.2	PASSED
11101.3	62.82	1383.089	45.83	16.99	15.4	78.2	PASSED
16651.7	50.59	338.571	40.23	10.36	27.6	78.2	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
164.928	27.8	24.539	47.03	-19.23	15.7	43.5	PASSED
178.205	28.86	27.717	47.09	-18.23	14.6	43.5	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
11101.3	49.21	288.636	32.22	16.99	4.8	54	PASSED
11101.3	48.87	277.715	31.88	16.99	5.1	54	PASSED
16651.7	38	79.451	27.64	10.36	---	---	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	62.83	1385.16	45.96	16.87	15.4	78.2	PASSED
11021.94	63.22	1448.272	46.35	16.87	15	78.2	PASSED
16528.3	49.36	293.9	39.34	10.03	28.8	78.2	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	48.38	262.452	31.51	16.87	5.6	54	PASSED
11021.94	48.35	261.397	31.48	16.87	5.7	54	PASSED
16528.3	36.92	70.121	26.9	10.03	---	---	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
11337.9	58.54	845.084	41.97	16.58	19.7	78.2	PASSED
11343.581	57.96	790.952	41.35	16.62	20.2	78.2	PASSED
17006.9	50.56	337.326	39.73	10.84	27.6	78.2	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
905.909	23.27	14.563	27.36	-4.09	22.7	46	PASSED
927.88	23.7	15.306	27.42	-3.72	22.3	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
11337.9	45.32	184.565	28.75	16.58	8.7	54	PASSED

11343.581	44.83	174.301	28.22	16.62	9.2	54	PASSED
17006.9	37.62	76.015	26.79	10.84	---	---	PASSED

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
10378	62.42	1320.535	45.44	16.98	15.8	78.2	PASSED
12070.944	57.5	749.894	41.47	16.03	20.7	78.2	PASSED
15566	51.69	384.149	41.6	10.1	26.5	78.2	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
930.424	23.55	15.052	27.29	-3.74	22.4	46	PASSED
958.094	23.5	14.962	27.42	-3.92	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
10378	47.32	232.193	30.34	16.98	---	---	PASSED
12070.944	44.17	161.64	28.14	16.03	9.8	54	PASSED
15566	38.39	83.081	28.3	10.1	15.6	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
10461.6	63.67	1526.511	47.34	16.33	14.5	78.2	PASSED
10947.392	57.21	725.354	40.48	16.73	21	78.2	PASSED
15566.2	51.81	389.538	41.72	10.09	26.4	78.2	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
923.674	23.49	14.943	27.23	-3.74	22.5	46	PASSED
927.346	23.64	15.202	27.36	-3.72	22.4	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
10461.6	48.75	273.873	32.42	16.33	---	---	PASSED
10947.392	44.34	164.74	27.61	16.73	9.7	54	PASSED
15566.2	38.37	82.89	28.28	10.09	15.6	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
10543.3	61.45	1181.816	45.44	16.02	16.7	78.2	PASSED
10875.543	57.24	727.361	40.61	16.63	21	78.2	PASSED
15808.6	50.52	335.854	40.6	9.92	27.7	78.2	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
936.262	23.44	14.864	27.29	-3.85	22.6	46	PASSED
955.844	23.41	14.803	27.36	-3.95	22.6	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
10543.3	47.82	246.065	31.81	16.02	---	---	PASSED
10875.543	44.66	171.061	28.03	16.63	9.3	54	PASSED
15808.6	37.71	76.816	27.79	9.92	16.3	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
10619.5	63.55	1504.354	47.1	16.45	14.7	78.2	PASSED
11069.644	57.94	788.678	40.98	16.96	20.3	78.2	PASSED
15926.9	50.72	343.637	40.98	9.74	27.5	78.2	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
872.293	22.72	13.671	27.36	-4.64	23.3	46	PASSED
956.918	23.48	14.933	27.42	-3.94	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
10619.5	48.55	267.516	32.1	16.45	5.5	54	PASSED
11069.644	44.93	176.36	27.97	16.96	9.1	54	PASSED
15926.9	37.42	74.259	27.68	9.74	16.6	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
10681.859	57.87	782.708	40.85	17.02	20.3	78.2	PASSED
11019.4	64.09	1601.585	47.22	16.87	14.1	78.2	PASSED
16531.1	49.62	302.656	39.6	10.02	28.6	78.2	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
918.311	23.35	14.704	27.23	-3.88	22.7	46	PASSED
937.072	23.36	14.727	27.23	-3.87	22.6	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
10681.859	44.66	170.923	27.64	17.02	9.3	54	PASSED

11019.4	47.83	246.32	30.96	16.87	6.2	54	PASSED
16531.1	36.91	70.097	26.89	10.02	---	---	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
10658.011	57.05	711.951	40.11	16.94	21.2	78.2	PASSED
11099.3	62.01	1260.956	45.04	16.97	16.2	78.2	PASSED
16646.9	50.67	341.743	40.35	10.32	27.5	78.2	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
868.076	22.43	13.224	27.17	-4.74	23.6	46	PASSED
897.81	23.08	14.248	27.3	-4.22	22.9	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
10658.011	44.56	169.083	27.62	16.94	9.4	54	PASSED
11099.3	46.85	220.039	29.88	16.97	7.1	54	PASSED
16646.9	37.87	78.208	27.55	10.32	---	---	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
11339.3	63.56	1506.781	46.98	16.59	14.6	78.2	PASSED
11346.701	60.5	1059.376	43.86	16.64	17.7	78.2	PASSED
17008.9	50.19	323.184	39.34	10.85	28	78.2	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
898.896	23.08	14.263	27.29	-4.21	22.9	46	PASSED
916.631	23.25	14.54	27.17	-3.92	22.7	46	PASSED

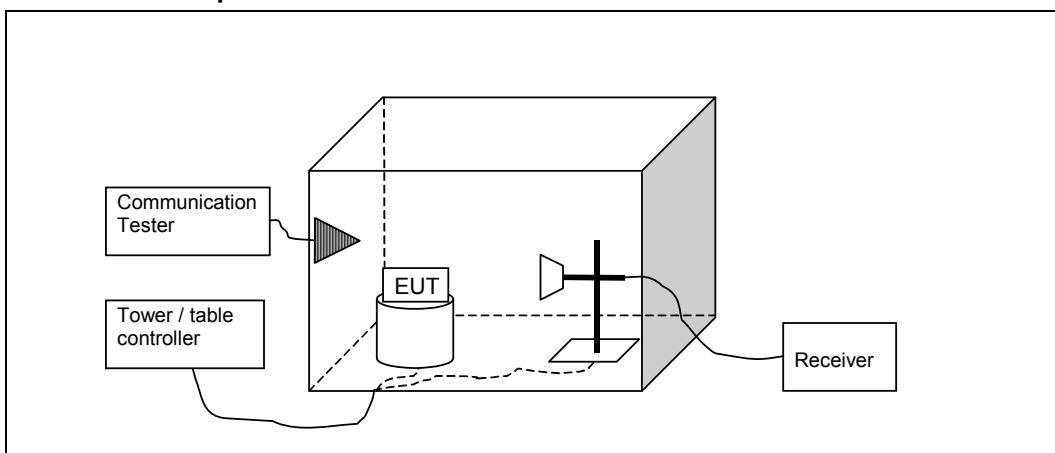
Average (RBW: 1 MHz, VBW: 1 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
11339.3	47.42	234.909	30.84	16.59	6.6	54	PASSED
11346.701	46.56	212.838	29.92	16.64	7.4	54	PASSED
17008.9	37.61	75.945	26.76	10.85	---	---	PASSED

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

EUT with DUT number	RM-878, DUT 16666
Accessories with DUT numbers	BP-4W, DUT 16667 ; AC-50U, DUT 16562 ; WH-902, DUT 16563
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	19 / 38 / 101.4
Date of measurements	19-Sep-2012
Measured by	Kalle Hannila / Jari Keto

3.1.1 Test setup



3.2. 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:

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

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.

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

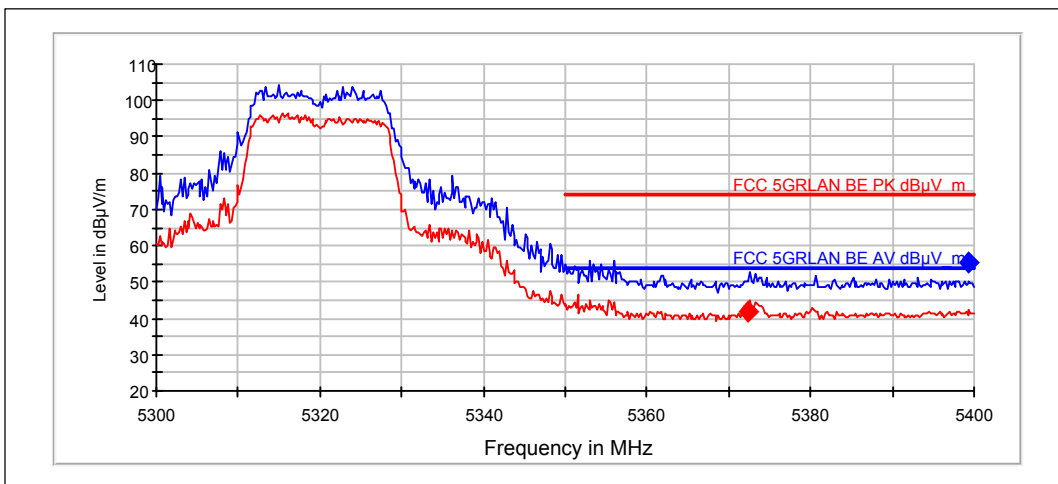
$$E \text{ [dB}\mu\text{V/m]} = 20 * \text{LOG} ((\text{square root (30 * P [W])} / 3 \text{ m}) * 1000000)$$

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

3.3. 5 GHz RLAN test results

3.3.1 OFDM, BPSK modulation, 9 Mbps data rate.

Channel 64 / 5320MHz



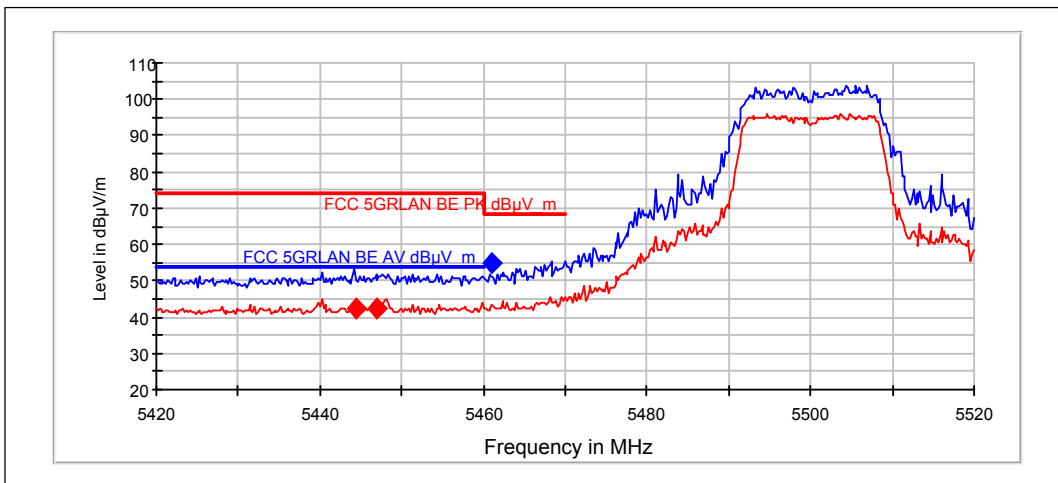
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5399.399	55.22	576.766	53.6	1.62	18.8	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
5372.345	41.69	121.437	40.19	1.5	12.3	54	PASSED

Channel 100 / 5500MHz



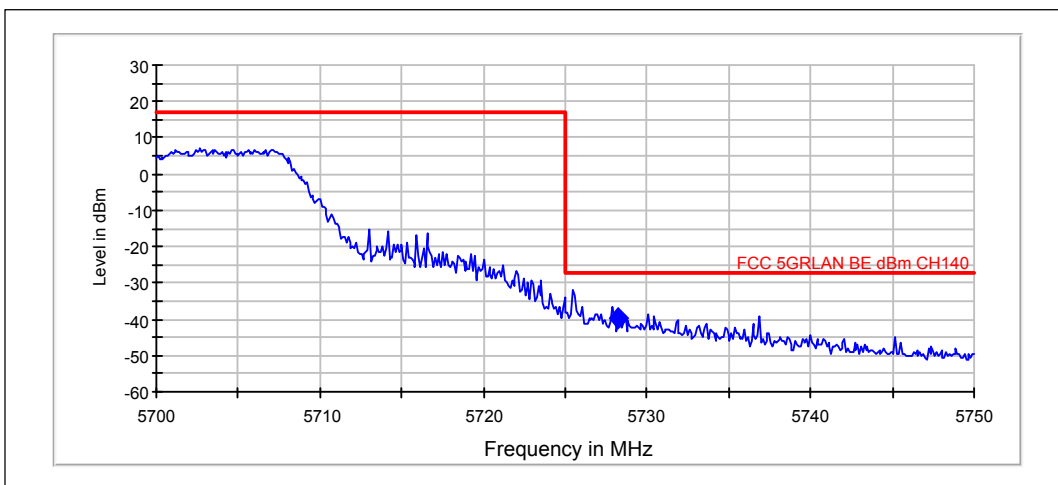
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5461.082	54.63	538.766	52.95	1.68	13.6	68.2	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
5444.399	42.36	131.235	40.65	1.71	11.6	54	PASSED
5446.954	42.61	134.974	40.88	1.73	11.4	54	PASSED

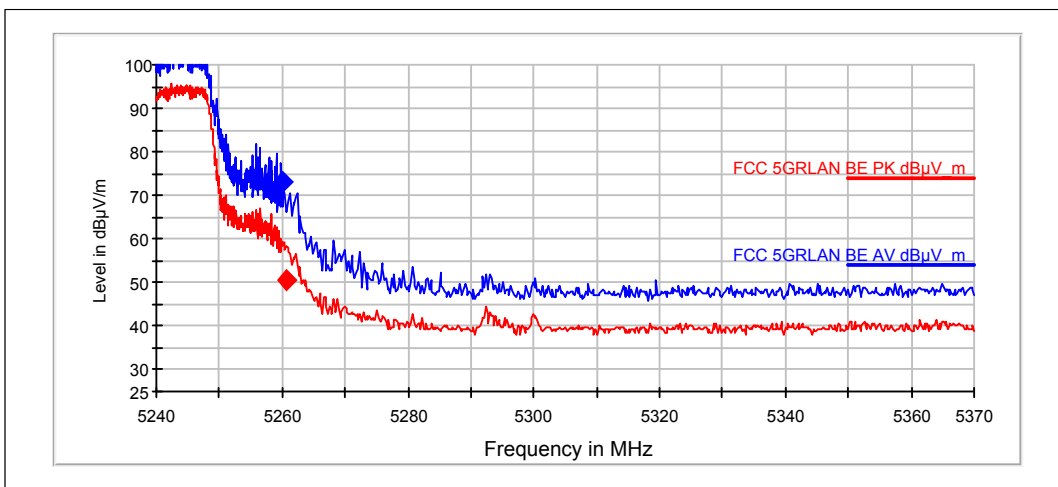
Channel 140 / 5700MHz



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

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Margin	Limit [dBm]	Results
5728.261	-39.52	0.11169	-55.78	16.26	12.5	-27	PASSED

Channel 48 / 5124MHz



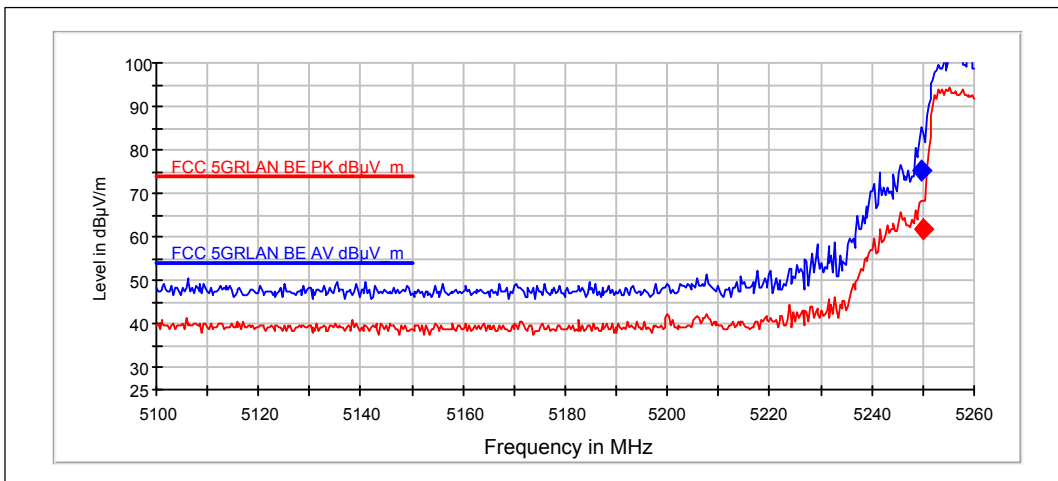
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μ V/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5260	72.95	4439.152	71.65	1.3	---	---	PASSED

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

Frequency [MHz]	E [dBμV/m]	E [μ V/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5260.601	50.43	332.392	49.13	1.3	---	---	PASSED

Channel 52 / 5260MHz



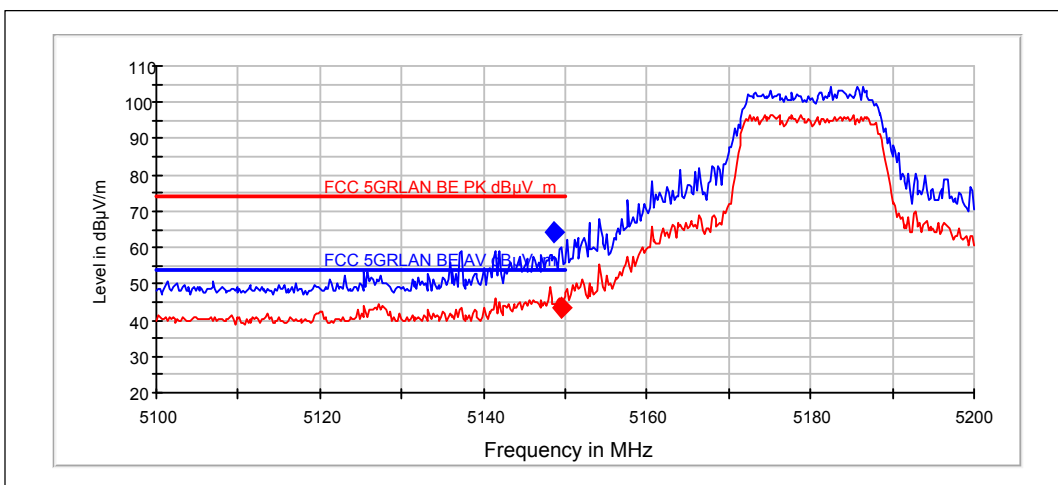
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5249.86	75.16	5727.96	73.99	1.17	---	---	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
5250	61.81	1231.97	60.64	1.17	---	---	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
5180	75.16	5727.96	73.99	1.17	---	---	PASSED

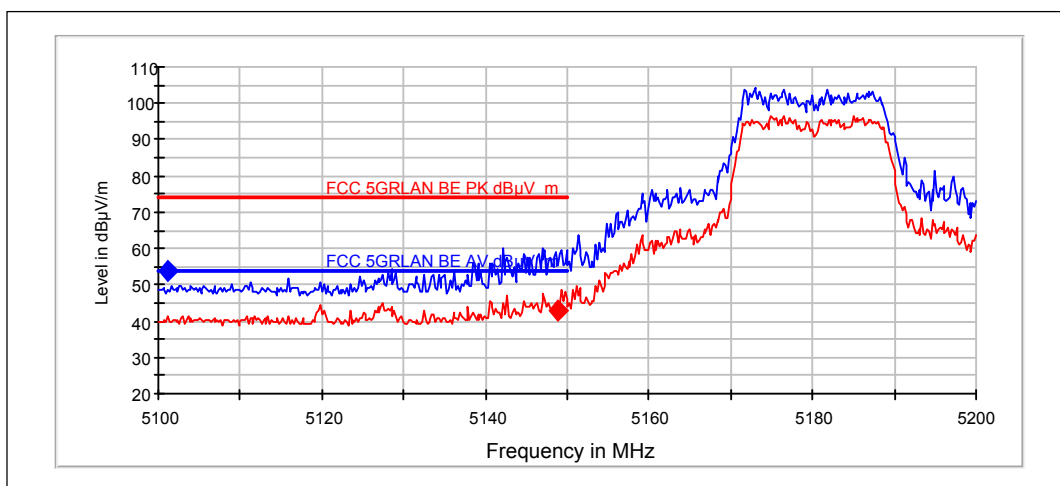
5148.597	64.2	1621.623	62.53	1.67	9.8	74	PASSED
----------	------	----------	-------	------	-----	----	--------

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
5149.599	43.59	151.112	41.93	1.66	10.4	54	PASSED

3.3.2 n-mode, 20 MHz CBW, 64-QAM modulation, 52.0 / 57.8 Mbps data rate.

Channel 36 / 5180MHz



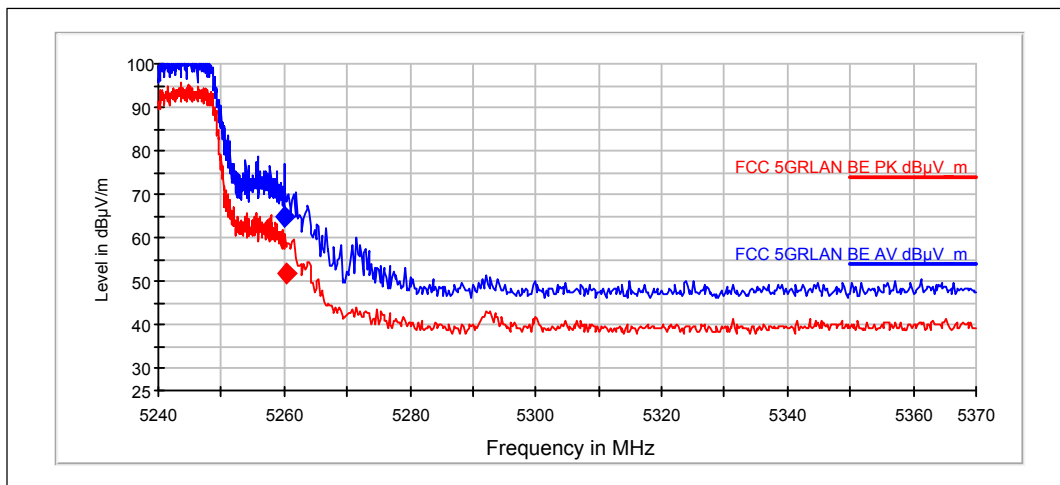
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5101.202	53.94	497.622	51.6	2.34	20.1	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
5148.898	42.69	136.223	41.02	1.67	11.3	54	PASSED

Channel 48 / 5124MHz



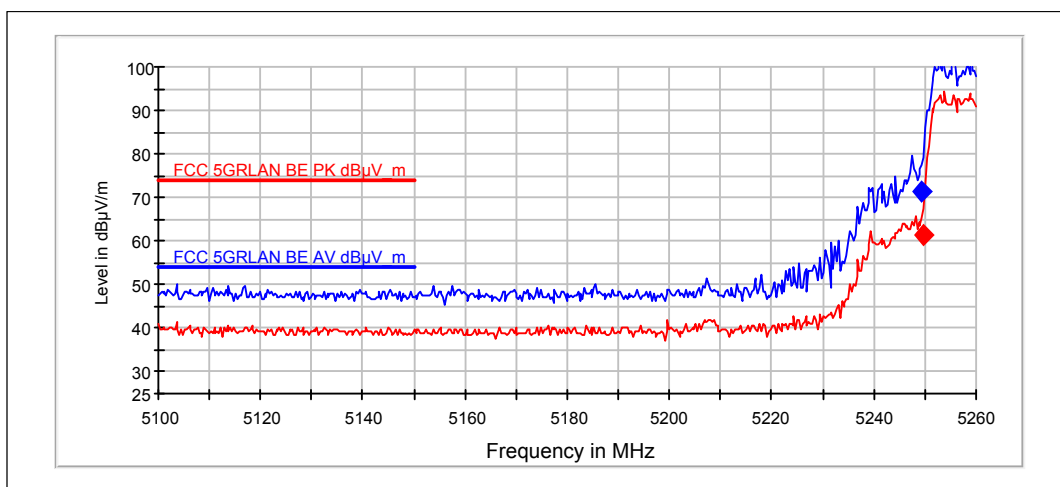
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5260	64.76	1730.215	63.46	1.3	---	---	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
5260.24	51.97	396.643	50.67	1.3	---	---	PASSED

Channel 52 / 5260MHz



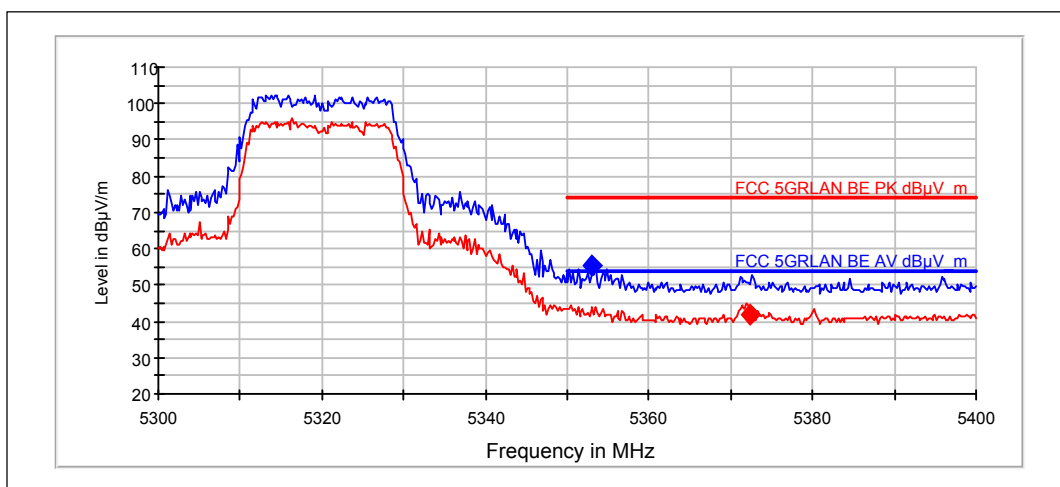
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5249.299	71.33	3685.53	70.16	1.17	---	---	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
5249.86	61.3	1161.582	60.13	1.17	---	---	PASSED

Channel 64 / 5320MHz



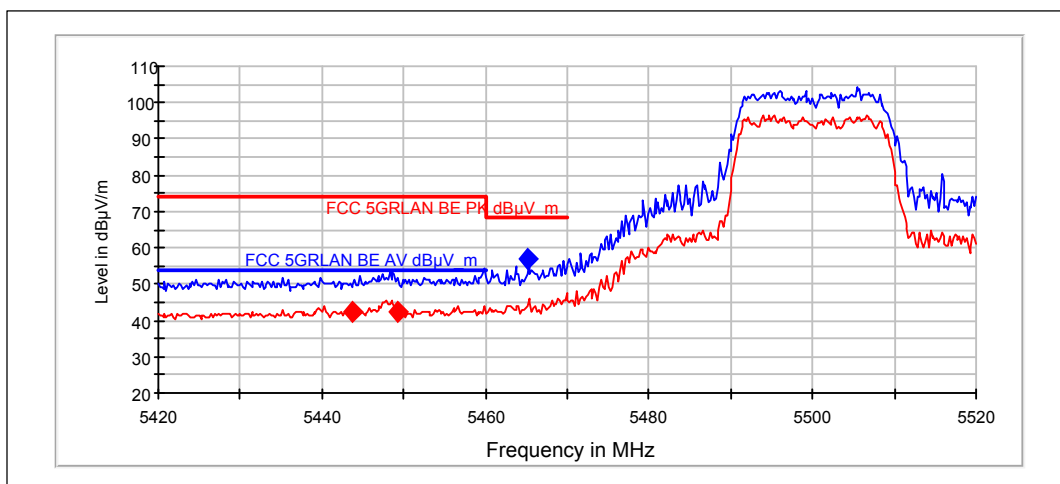
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5353.106	55.5	595.388	54	1.5	18.5	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
5372.445	41.74	122.152	40.24	1.5	12.3	54	PASSED

Channel 100 / 5500MHz



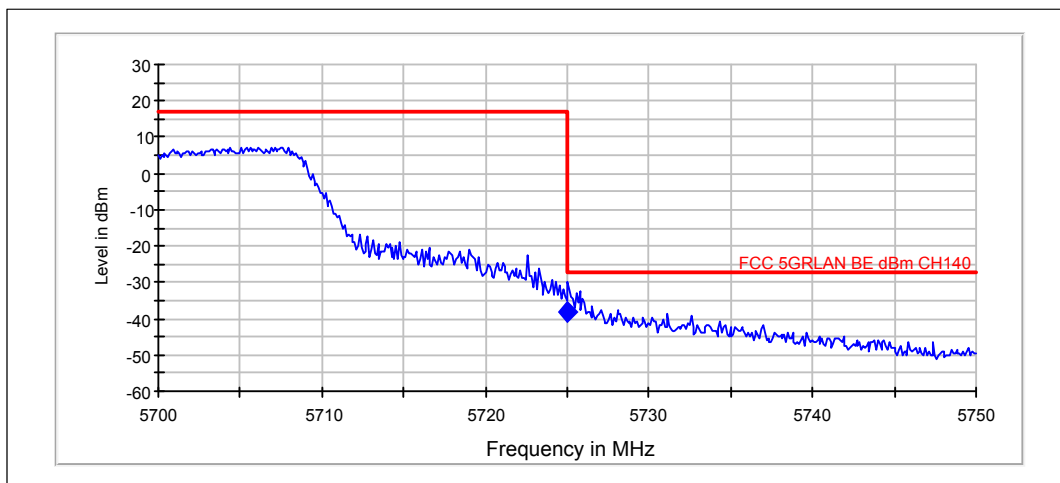
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5465.19	56.83	694.305	55.17	1.66	11.4	68.2	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
5443.798	42.24	129.449	40.53	1.71	11.8	54	PASSED
5449.259	42.12	127.6	40.38	1.74	11.9	54	PASSED

Channel 140 / 5700MHz

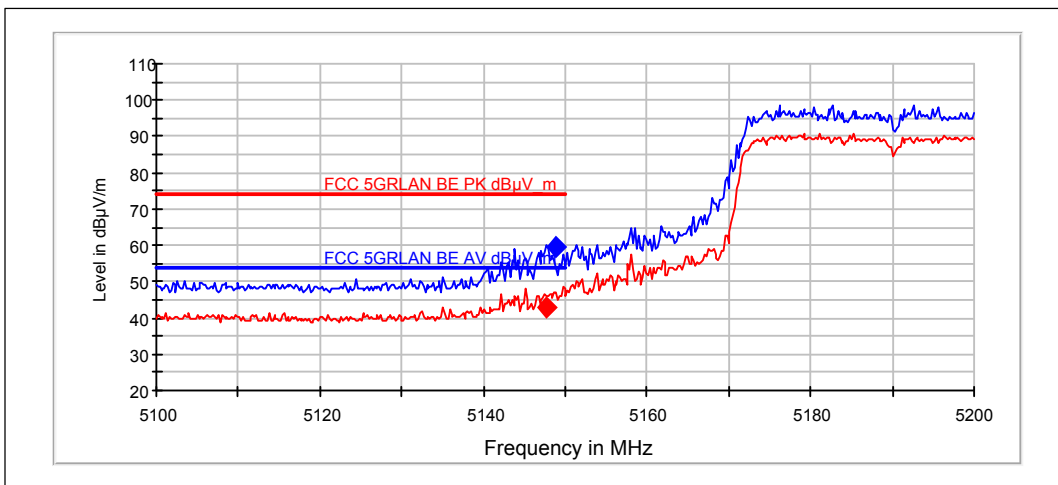


Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Margin	Limit [dBm]	Results
5725.004	-38.23	0.15018	-54.67	16.44	11.2	-27	PASSED

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

Channel 36+40 / 5190MHz



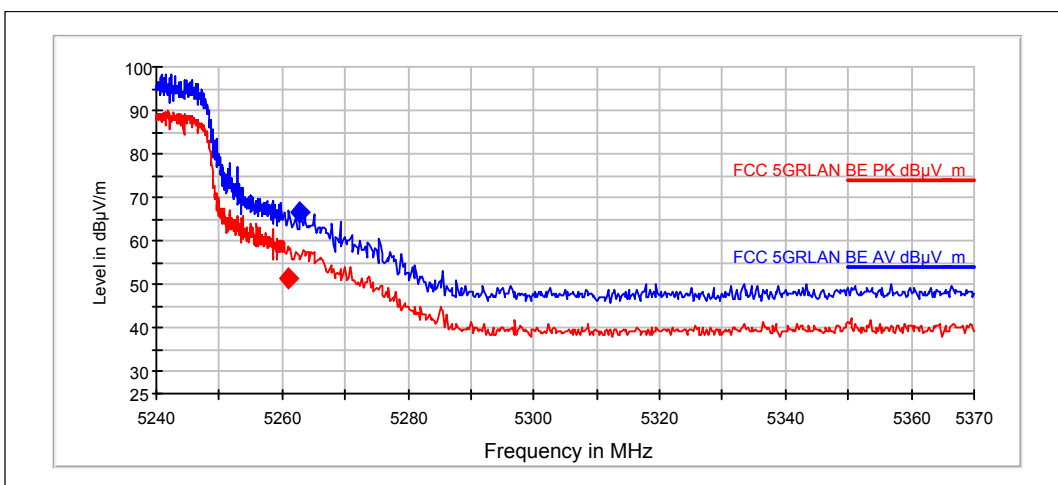
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5148.898	59.64	959.401	57.97	1.67	14.4	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
5147.595	42.75	137.214	41.07	1.68	11.3	54	PASSED

Channel 44+48 / 5230MHz



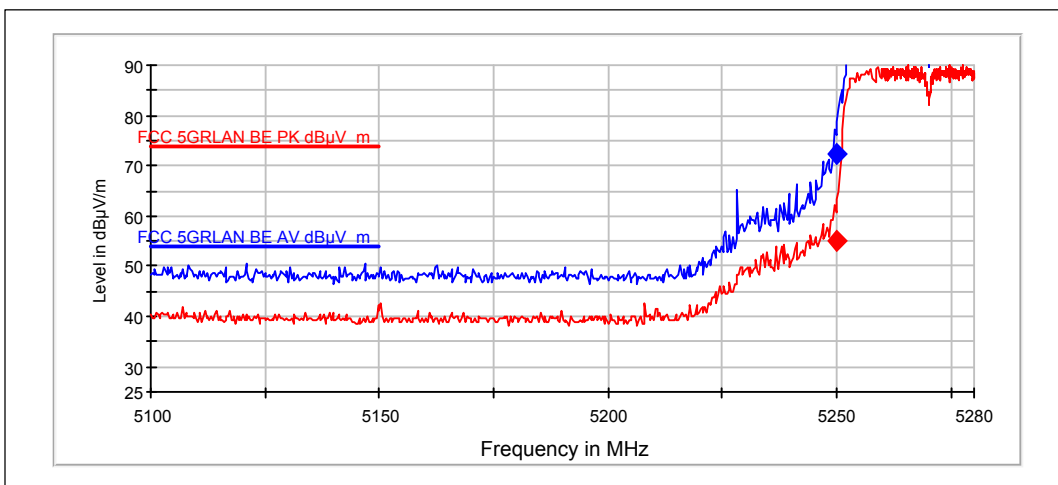
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5262.886	66.71	2165.958	65.41	1.31	---	---	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
5260.842	51.51	376.4	50.21	1.3	---	---	PASSED

Channel 52+56 / 5270MHz



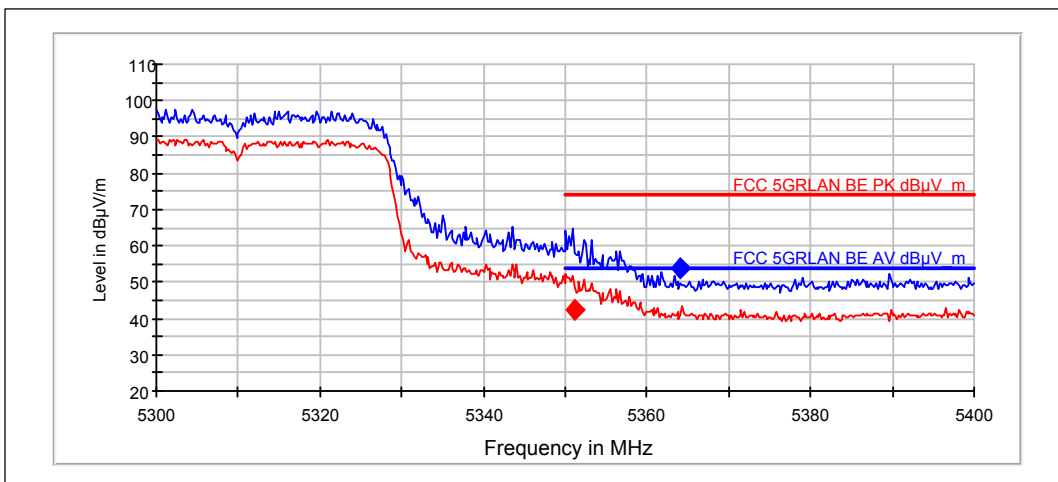
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5249.86	72.17	4061.627	71	1.17	---	---	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
5250	55.02	563.378	53.85	1.17	---	---	PASSED

Channel 60+64 / 5310MHz



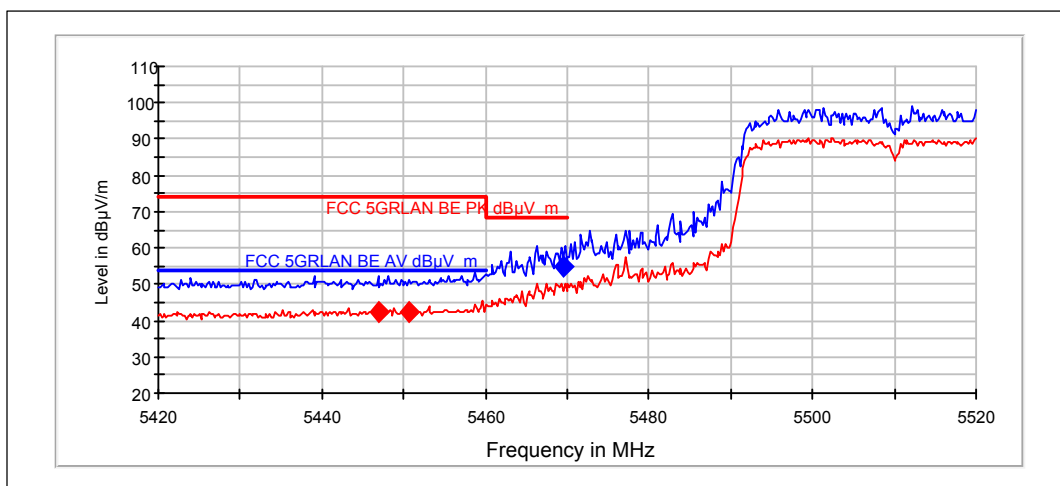
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5364.128	53.72	485.009	52.21	1.51	20.3	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
5351.102	42.38	131.447	40.88	1.5	11.6	54	PASSED

Channel 100+104 / 5510MHz



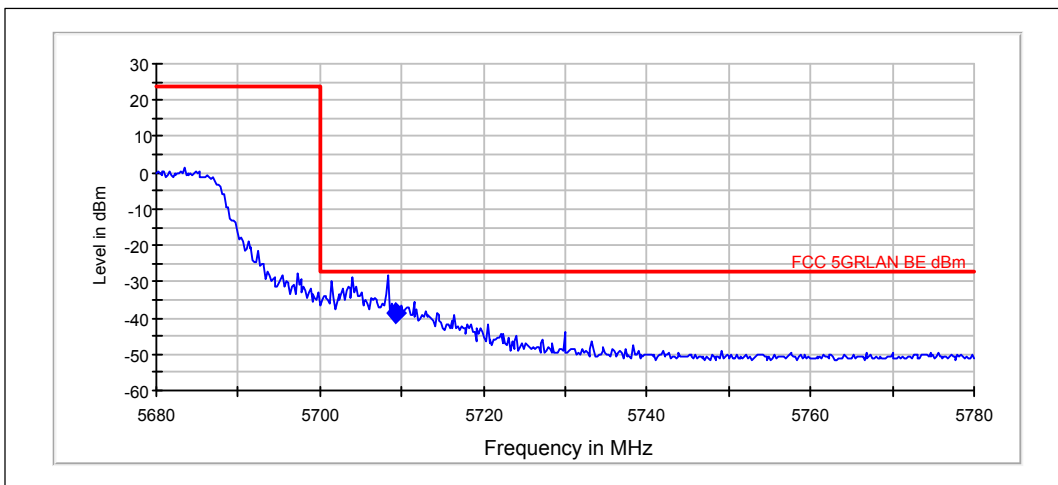
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5469.599	54.97	560.338	53.34	1.63	13.2	68.2	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
5447.054	42.24	129.345	40.51	1.73	11.8	54	PASSED
5450.611	42.18	128.469	40.44	1.74	11.8	54	PASSED

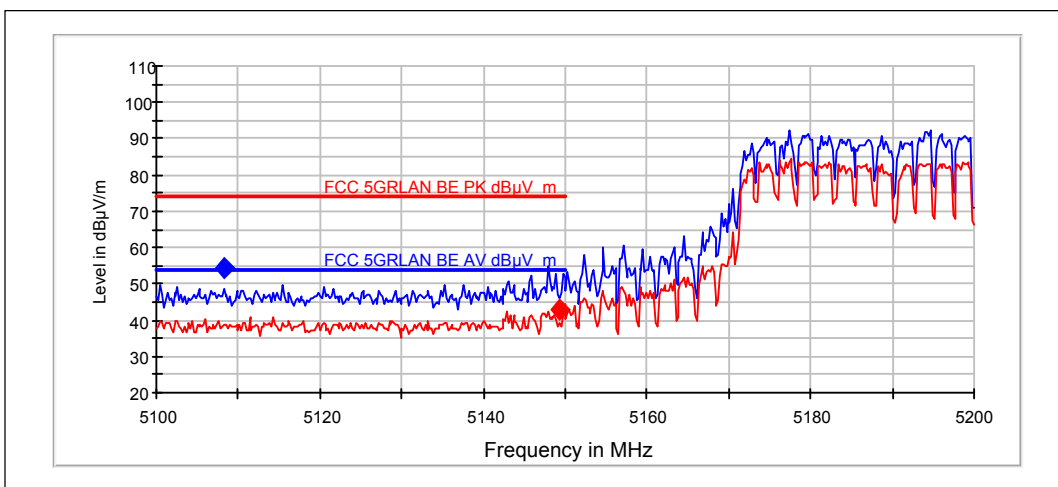
Channel 132+136 / 5670MHz



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

Frequency [MHz]	P [dBm]	P [μ W]	P _{MEAS} [dBm]	A _{TOT} [dB]	Margin	Limit [dBm]	Results
5709.212	-38.9	0.12882	-55.28	16.38	11.9	-27	PASSED

Channel 36+40 / 5190MHz



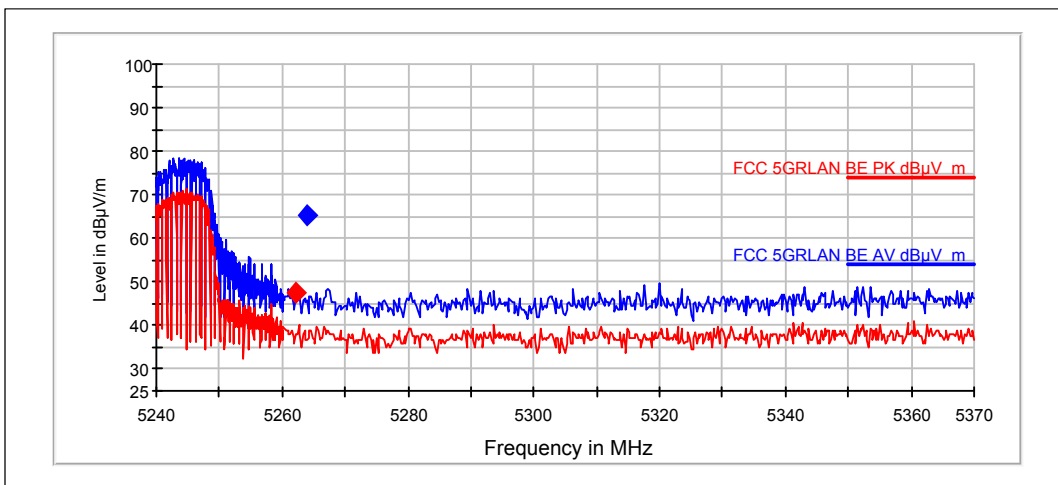
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Margin	Limit [dB μ V/m]	Results
5108.216	54.28	517.726	52.09	2.2	19.7	74	PASSED

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

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Margin	Limit [dB μ V/m]	Results
5149.198	42.95	140.394	41.29	1.66	11.1	54	PASSED

Channel 44+48 / 5230MHz



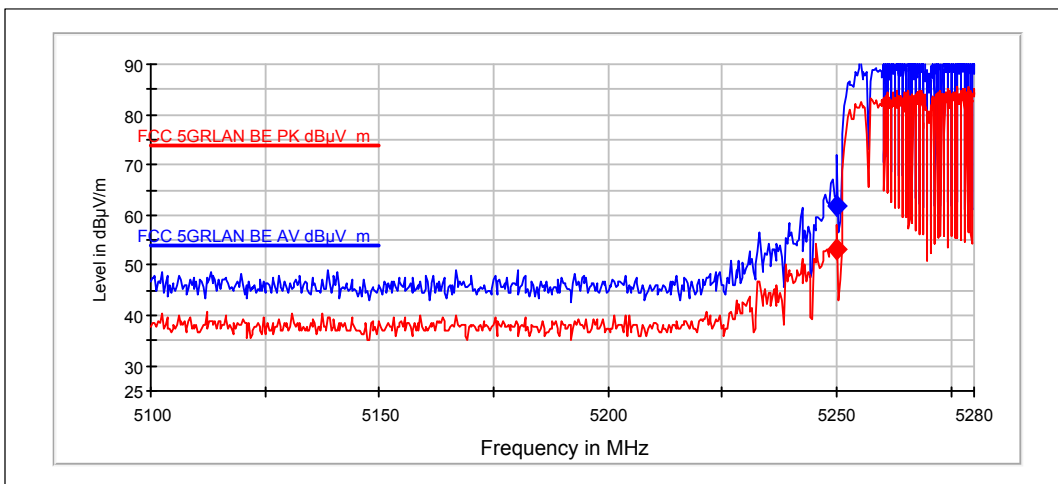
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5263.848	65.18	1815.934	63.87	1.31	---	---	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
5262.044	47.42	234.963	46.12	1.3	---	---	PASSED

Channel 52+56 / 5270MHz



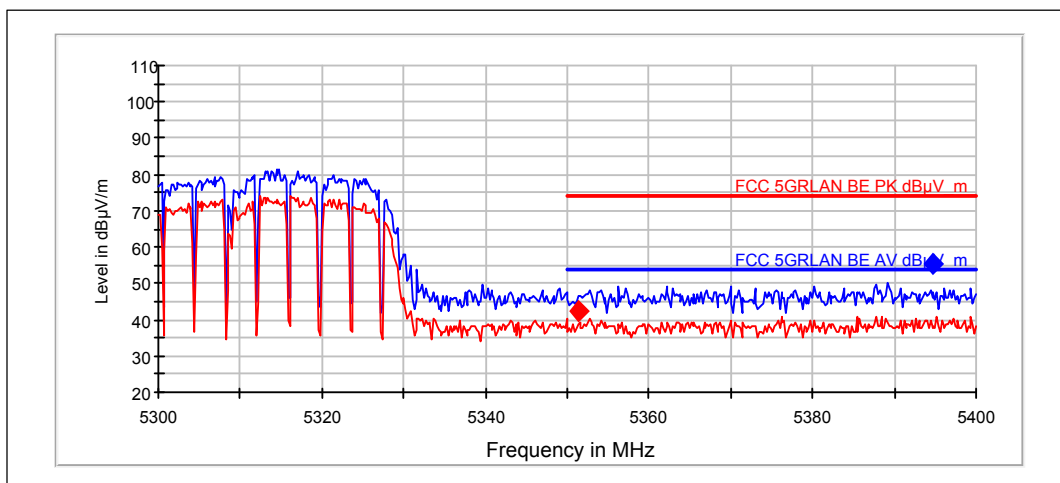
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5249.86	61.93	1249.108	60.76	1.17	---	---	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
5249.86	53.27	460.628	52.1	1.17	---	---	PASSED

Channel 60+64 / 5310MHz



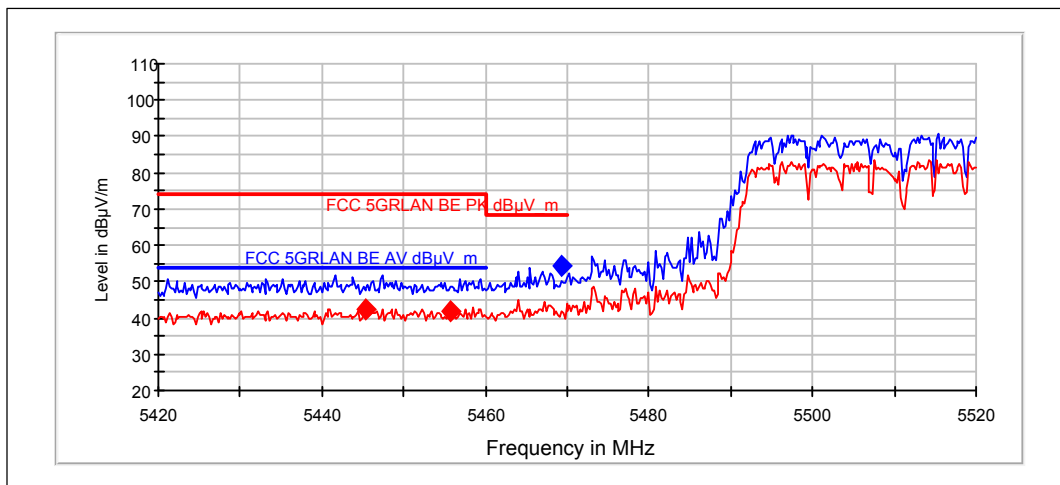
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5394.79	55.45	592.243	53.87	1.59	18.5	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
5351.403	42.15	128.041	40.65	1.5	11.9	54	PASSED

Channel 100+104 / 5510MHz



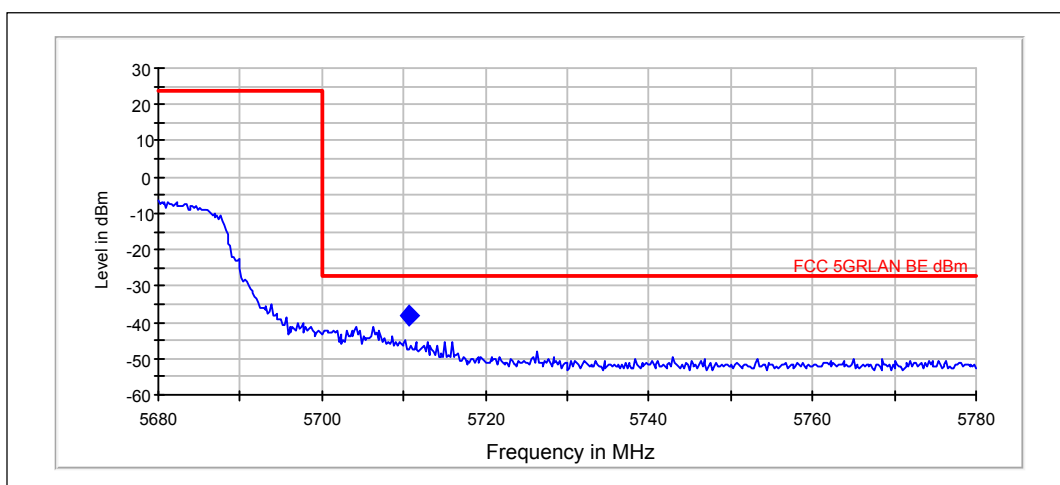
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Margin	Limit [dBμV/m]	Results
5469.399	54.33	520.835	52.7	1.64	13.9	68.2	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
5445.401	42.24	129.375	40.52	1.72	11.8	54	PASSED
5455.671	42.1	127.336	40.39	1.72	11.9	54	PASSED

Channel 132+136 / 5670MHz



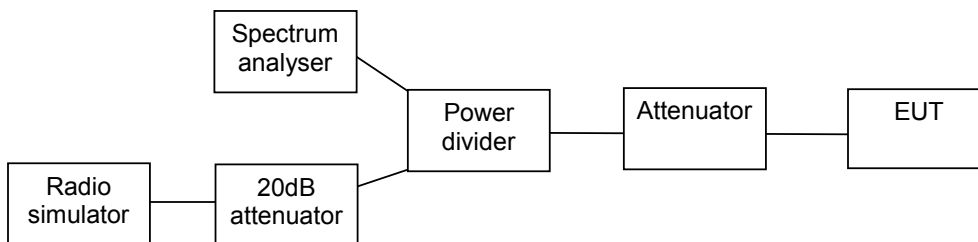
Peak (RBW: 1 MHz, VBW: 3 MHz)

Frequency [MHz]	P [dBm]	P [μW]	P _{MEAS} [dBm]	A _{TOT} [dB]	Margin	Limit [dBm]	Results
5710.645	-38.2	0.15139	-54.55	16.35	11.2	-27	PASSED

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

EUT with DUT number	RM-878, DUT 16639
Accessories with DUT numbers	BP-4W, DUT 16640
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 41 / 101
Date of measurements	17-Sep-2012
Measured by	Tomi Lipponen

4.1. Test Setup



4.2. 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

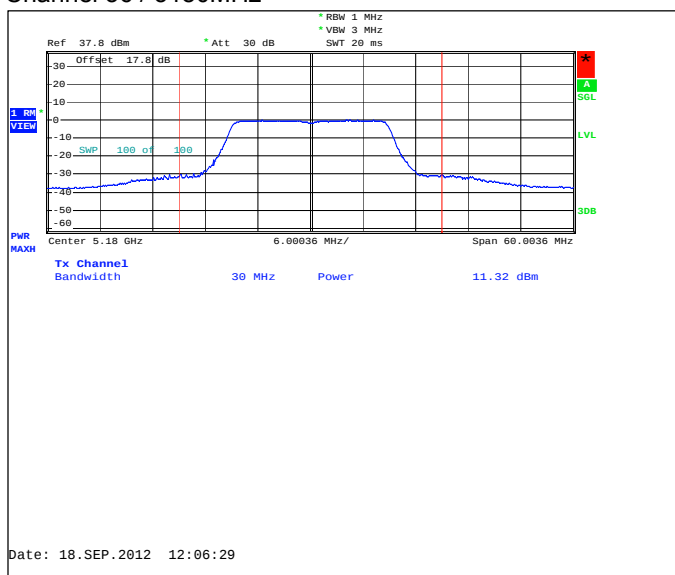
4.3. 5 GHz RLAN Test results

RLAN 5 GHz, RMS output power [dBm]	
Mode & data speed	Ch 36 /38
g-mode WLAN OFDM 6 Mbps	11.22
g-mode WLAN OFDM 9 Mbps	11.29
g-mode WLAN OFDM 12 Mbps	11.34
g-mode WLAN OFDM 18 Mbps	11.33
g-mode WLAN OFDM 24 Mbps	11.39
g-mode WLAN OFDM 36 Mbps	11.51
g-mode WLAN OFDM 48 Mbps	11.50
g-mode WLAN OFDM 54 Mbps	11.54
n-mode MCS 0: OFDM 6.5 / 7.25 Mbps	11.19
n-mode MCS 1: OFDM 13.0 / 14.4 Mbps	11.4
n-mode MCS 2: OFDM 19.5 / 21.7 Mbps	11.25
n-mode MCS 3: OFDM 26.0 / 28.9 Mbps	11.49
n-mode MCS 4: OFDM 39.0 / 43.3 Mbps	11.5
n-mode MCS 5: OFDM 52.0 / 57.8 Mbps	11.59
n-mode MCS 6: OFDM 58.5 / 65.0 Mbps	11.54
n-mode MCS 7: OFDM 65.0 / 72.2 Mbps	11.45
n-mode MCS 0: OFDM 13.5 / 15.0 Mbps	8.74
n-mode MCS 1: OFDM 27.0 / 30.0 Mbps	9.66
n-mode MCS 2: OFDM 40.5 / 45.0 Mbps	8.69
n-mode MCS 3: OFDM 54.0 / 60.0 Mbps	9.15
n-mode MCS 4: OFDM 81.0 / 90.0 Mbps	8.84
n-mode MCS 5: OFDM 108.0 / 120.0 Mbps	8.9
n-mode MCS 6: OFDM 121.5 / 135.0 Mbps	8.76
n-mode MCS 7: OFDM 135.0 / 150.0 Mbps	8.83

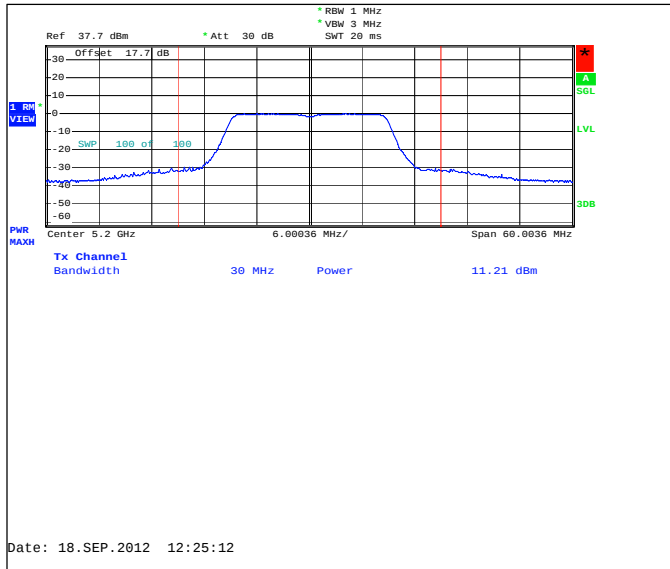
4.3.1 OFDM mode, BPSK modulation, 9 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	11.32	13.552	PASSED
40 / 5200	11.21	13.213	PASSED
48 / 5240	11.28	13.428	PASSED
52 / 5260	11.35	13.646	PASSED
60 / 5300	11.05	12.735	PASSED
64 / 5320	10.94	12.417	PASSED
100 / 5500	10.93	12.388	PASSED
116 / 5580	10.67	11.668	PASSED
140 / 5700	10.59	11.455	PASSED

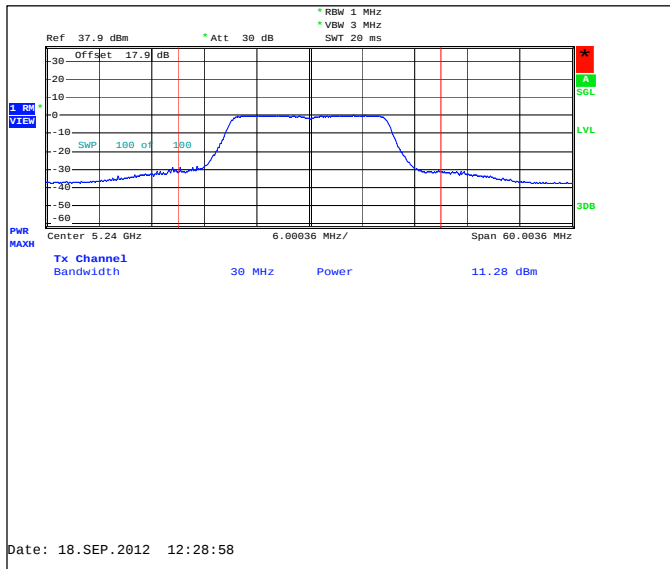
Channel 36 / 5180MHz



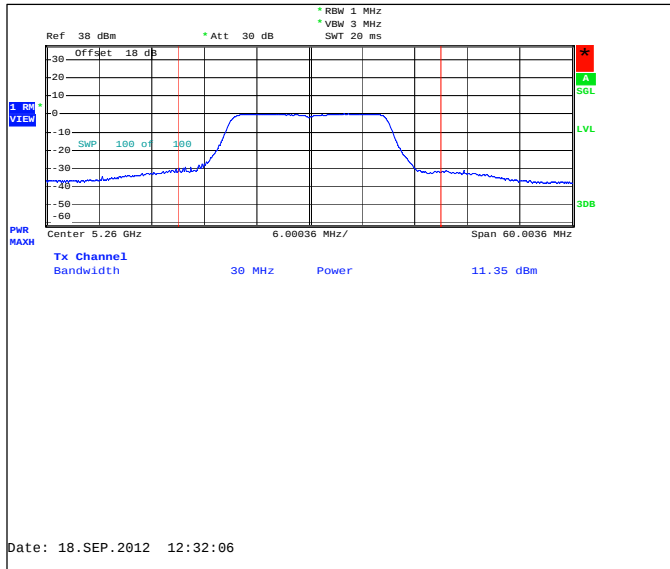
Channel 40 / 5200MHz



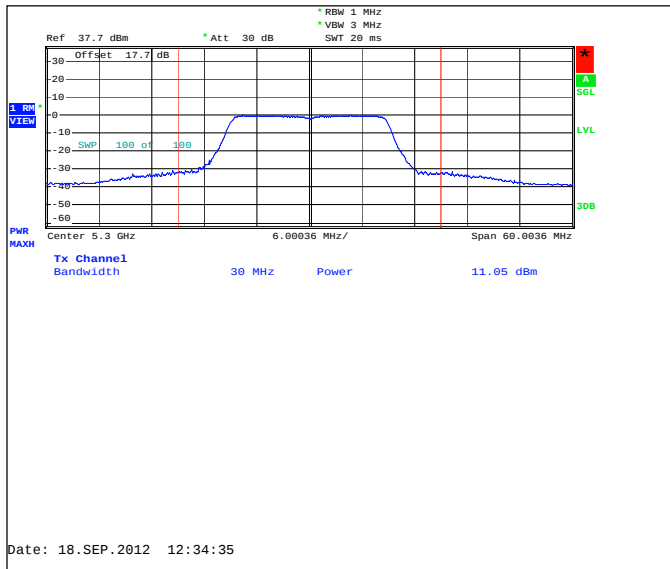
Channel 48 / 5240MHz



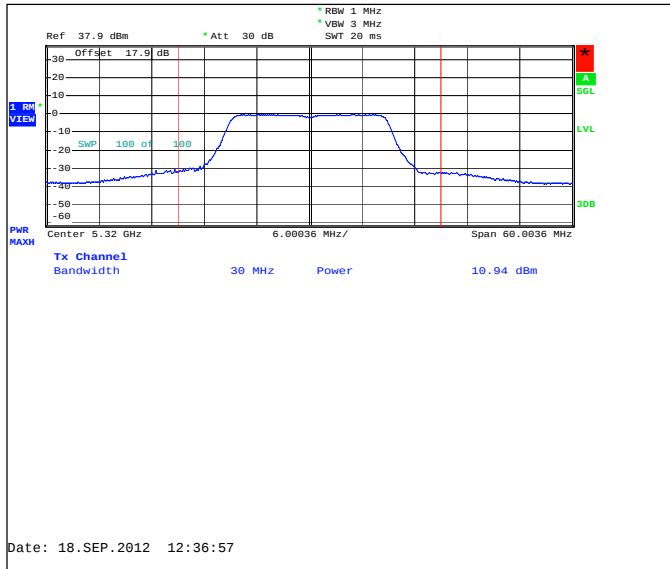
Channel 52 / 5260MHz



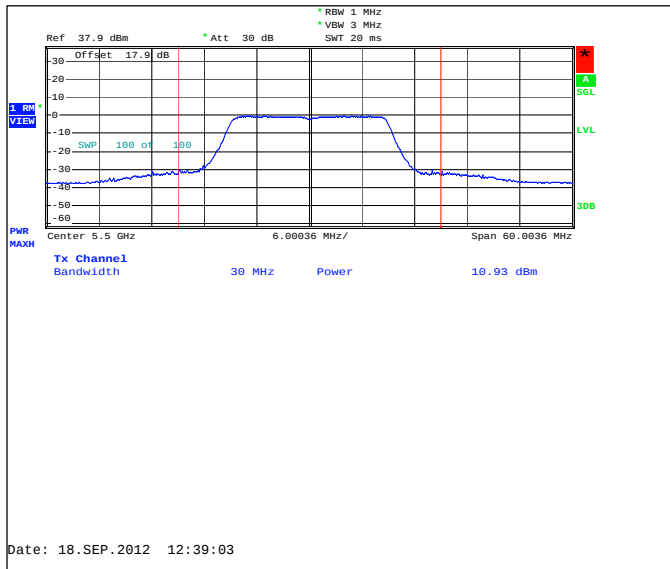
Channel 60 / 5300MHz



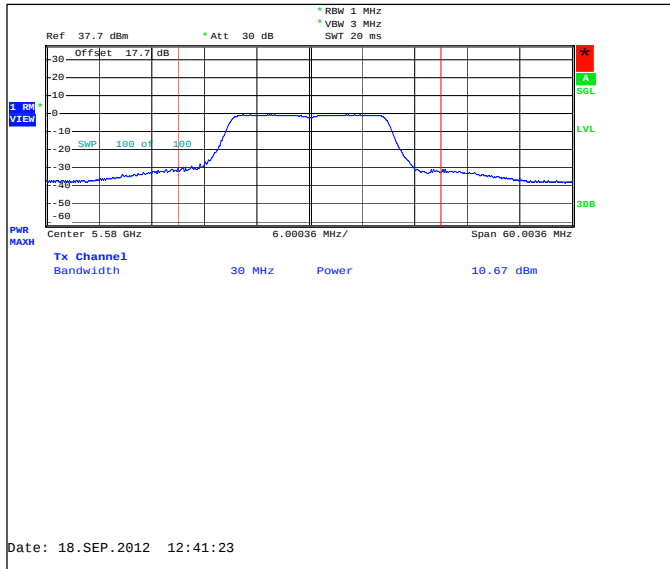
Channel 64 / 5320MHz



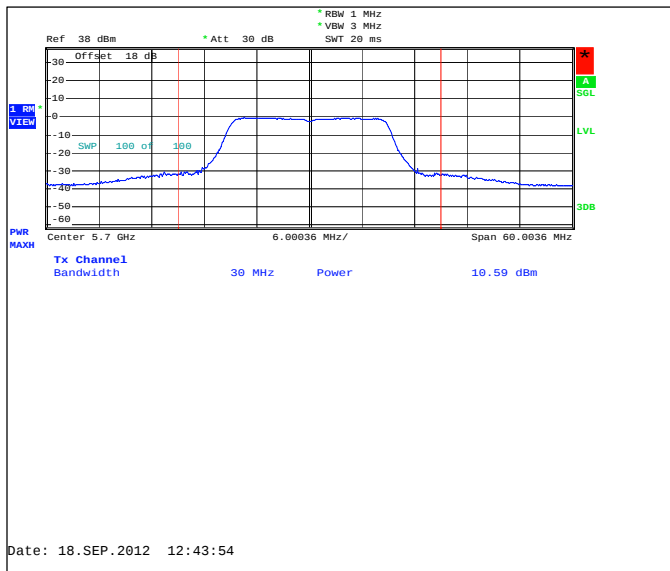
Channel 100 / 5500MHz



Channel 116 / 5580MHz



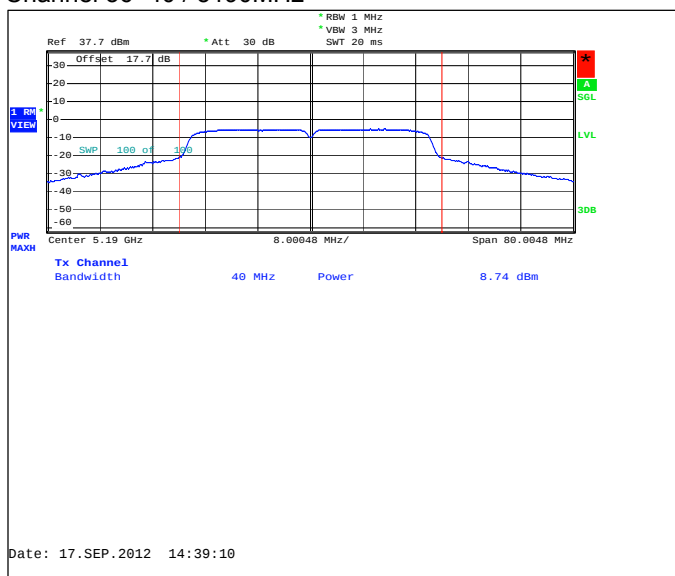
Channel 140 / 5700MHz



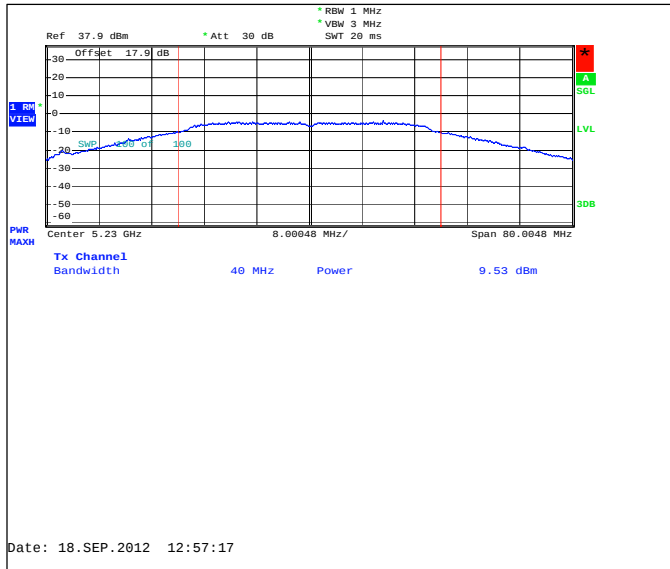
4.3.2 n-mode, 40 MHz CBW mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	8.74	7.482	PASSED
44+48 / 5230	9.53	8.974	PASSED
52+56 / 5270	8.58	7.211	PASSED
60+64 / 5310	8.49	7.063	PASSED
100+104 / 5510	8.24	6.668	PASSED
108+112 / 5550	8.07	6.412	PASSED
132+136 / 5670	8.11	6.471	PASSED

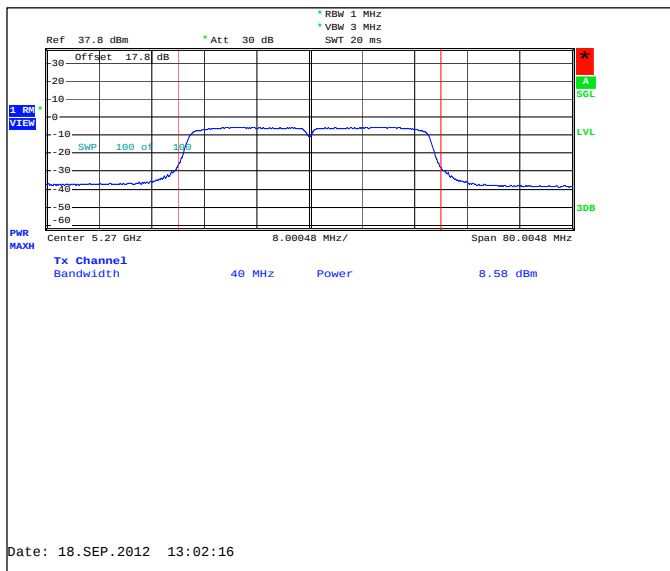
Channel 36+40 / 5190MHz



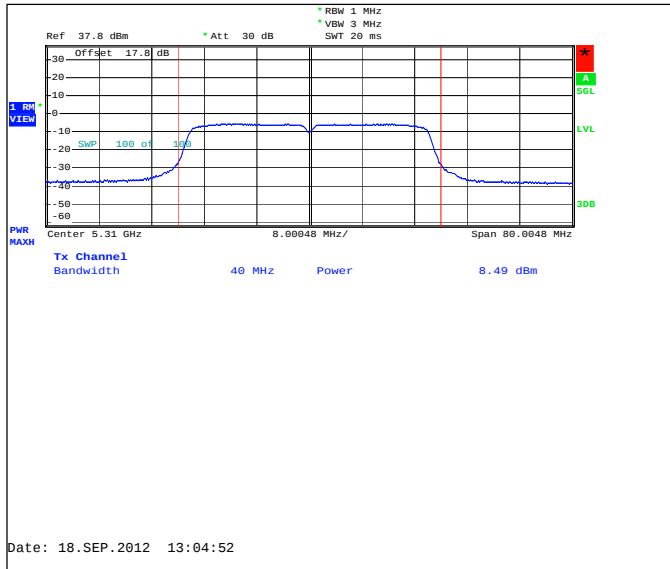
Channel 44+48 / 5230MHz



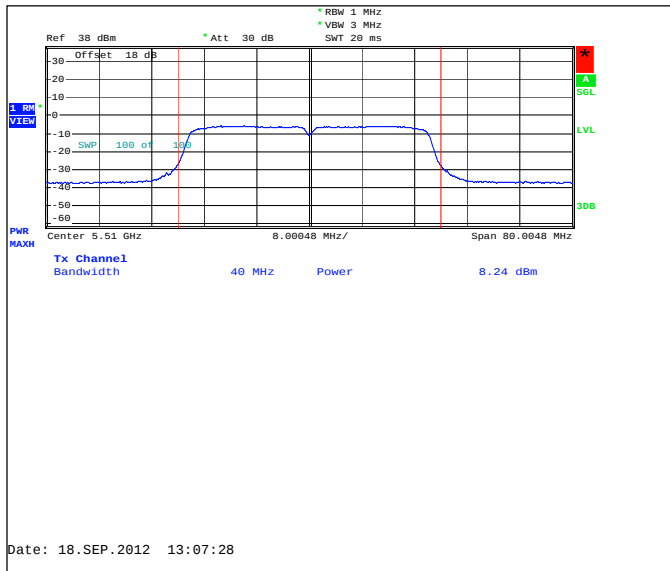
Channel 52+56 / 5270MHz



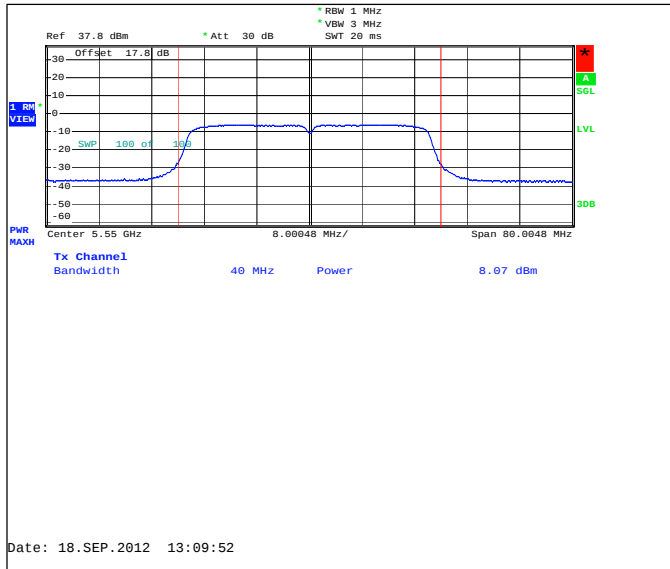
Channel 60+64 / 5310MHz



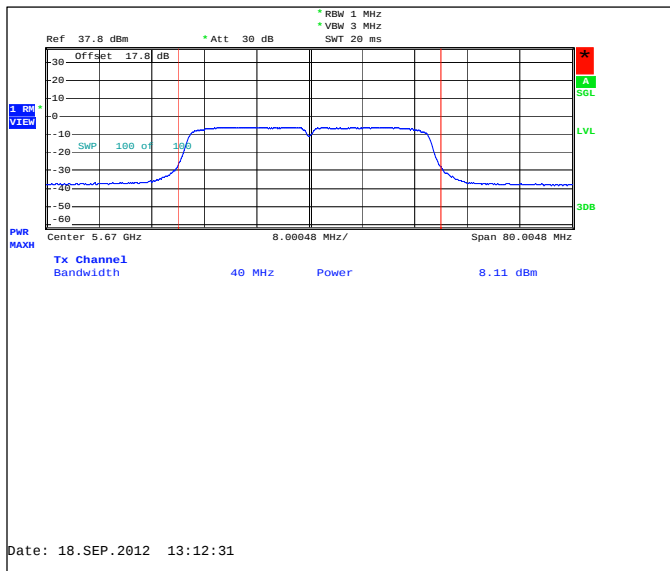
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



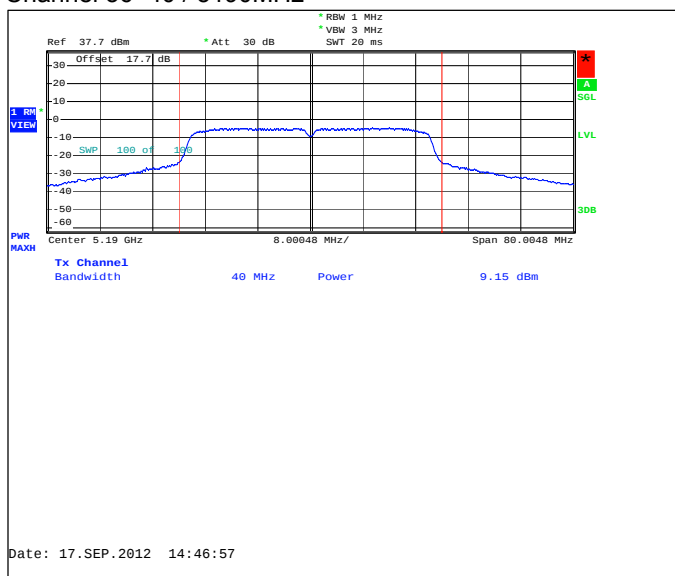
Channel 132+136 / 5670MHz



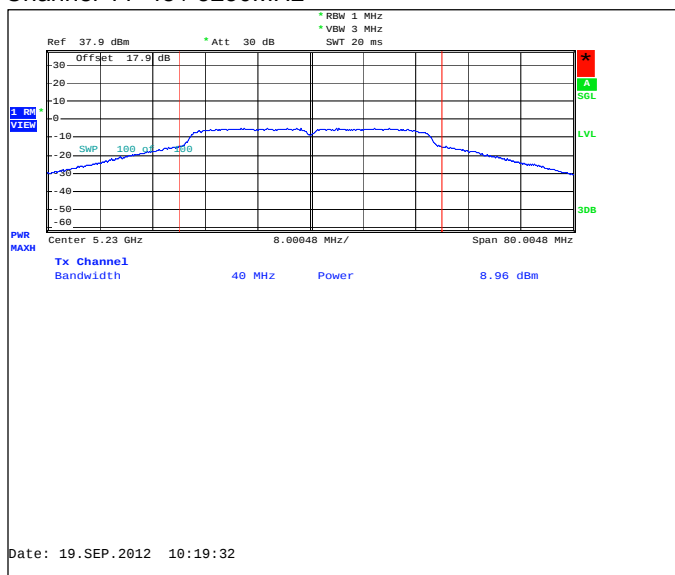
4.3.3 n-mode, 40 MHz CBW mode, 16-QAM modulation, 54.0 / 60.0 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36+40 / 5190	9.15	8.222	PASSED
44+48 / 5230	8.96	7.87	PASSED
52+56 / 5270	8.56	7.178	PASSED
60+64 / 5310	8.34	6.823	PASSED
100+104 / 5510	8.5	7.079	PASSED
108+112 / 5550	8.02	6.339	PASSED
132+136 / 5670	8.08	6.427	PASSED

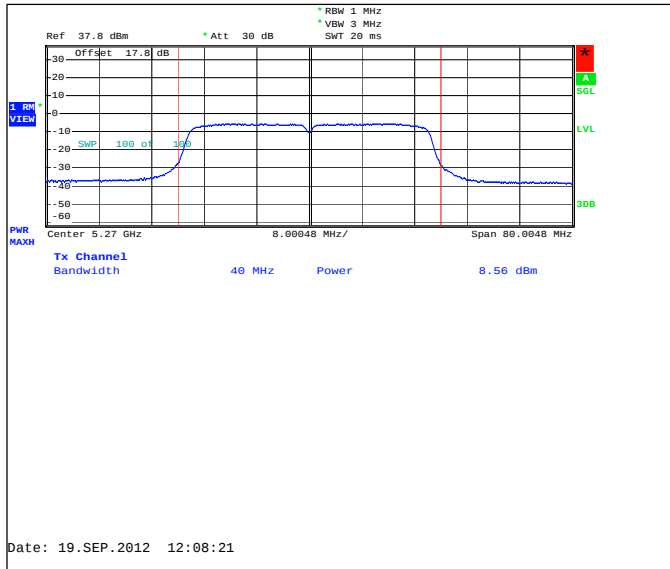
Channel 36+40 / 5190MHz



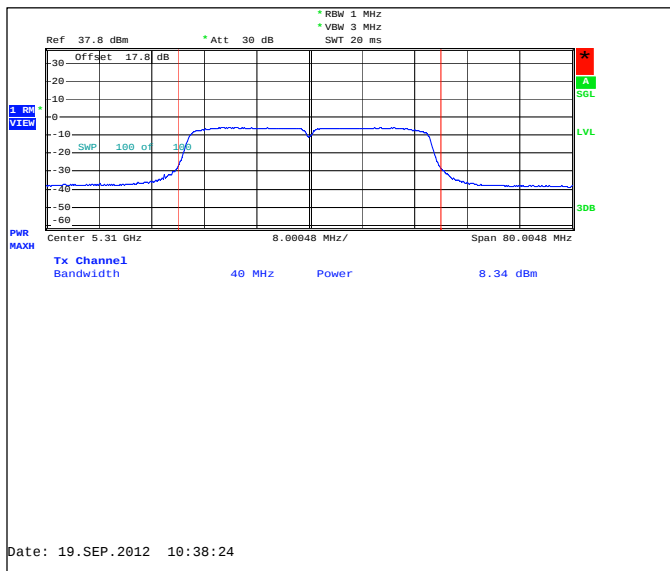
Channel 44+48 / 5230MHz



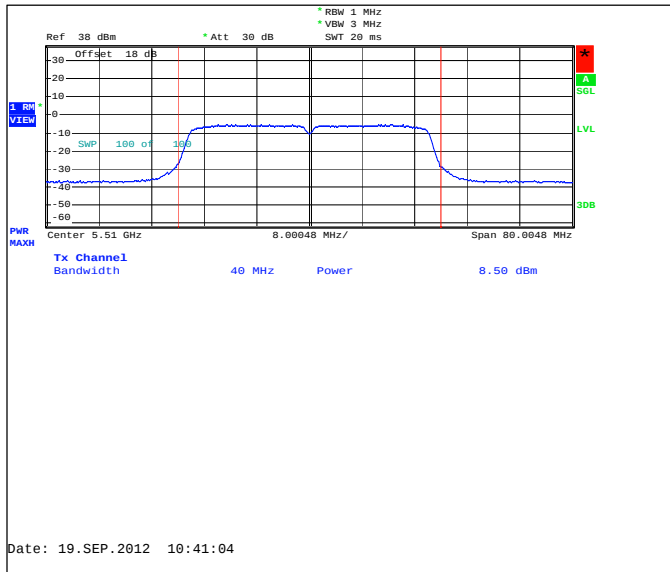
Channel 52+56 / 5270MHz



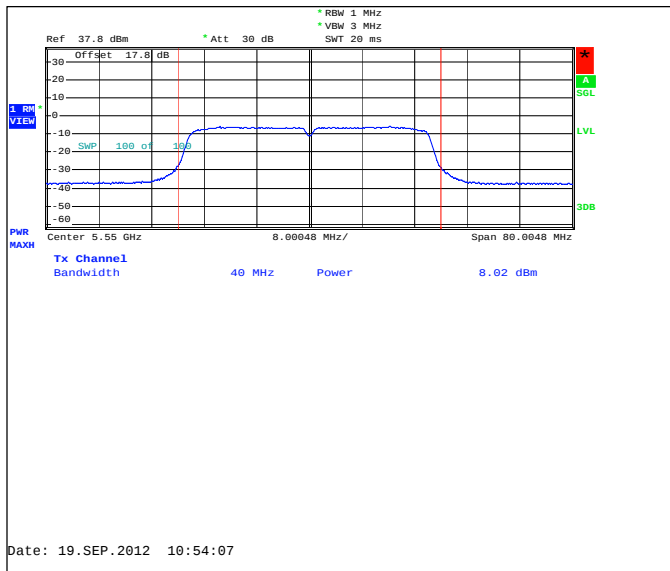
Channel 60+64 / 5310MHz



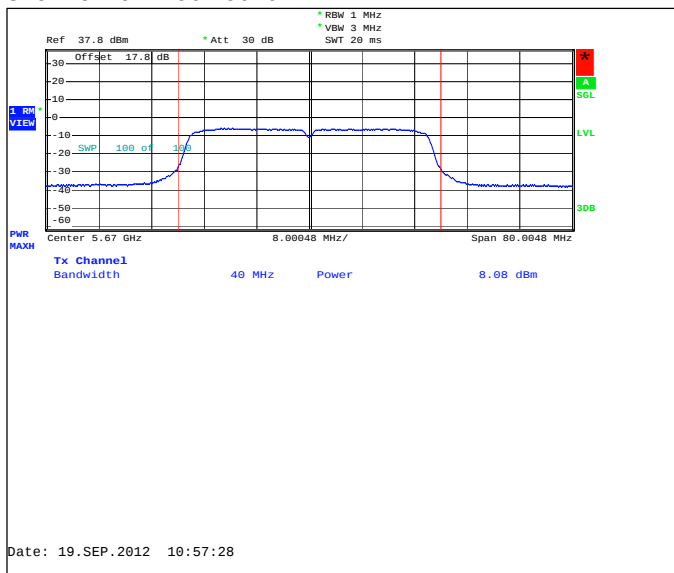
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



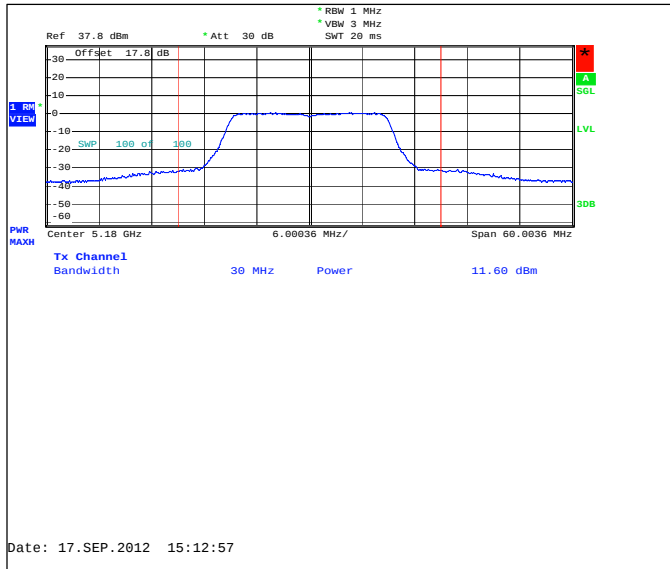
Channel 132+136 / 5670MHz



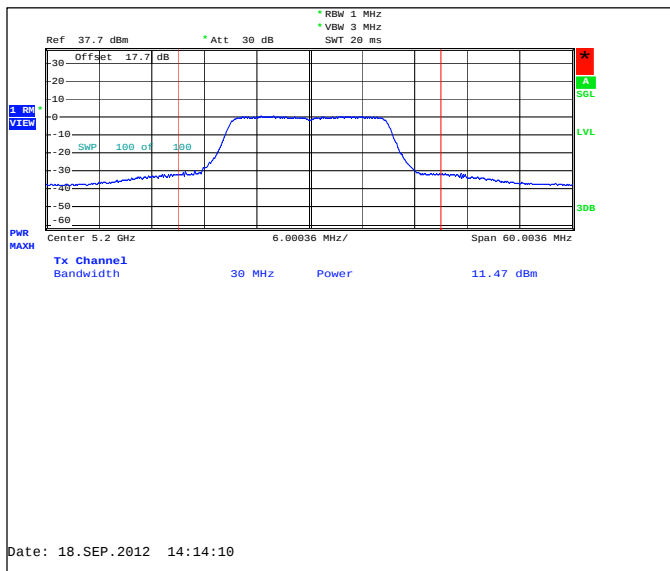
4.3.4 n-mode, 20 MHz CBW mode, 64-QAM modulation, 52.0 / 57.8 Mbps data rate

Channel / f _c [MHz]	P [dBm]	P [mW]	Result
36 / 5180	11.6	14.454	PASSED
40 / 5200	11.47	14.028	PASSED
48 / 5240	11.44	13.932	PASSED
52 / 5260	11.54	14.256	PASSED
60 / 5300	11.18	13.122	PASSED
64 / 5320	11.16	13.062	PASSED
100 / 5500	11.01	12.618	PASSED
116 / 5580	10.68	11.695	PASSED
140 / 5700	10.9	12.303	PASSED

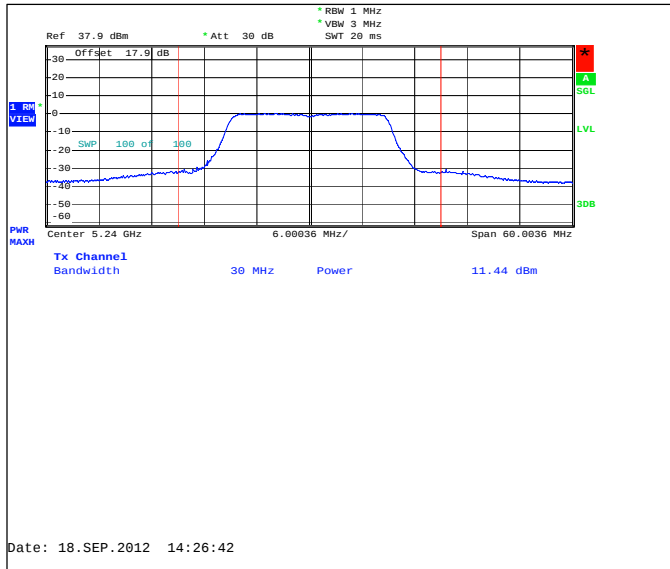
Channel 36 / 5180MHz



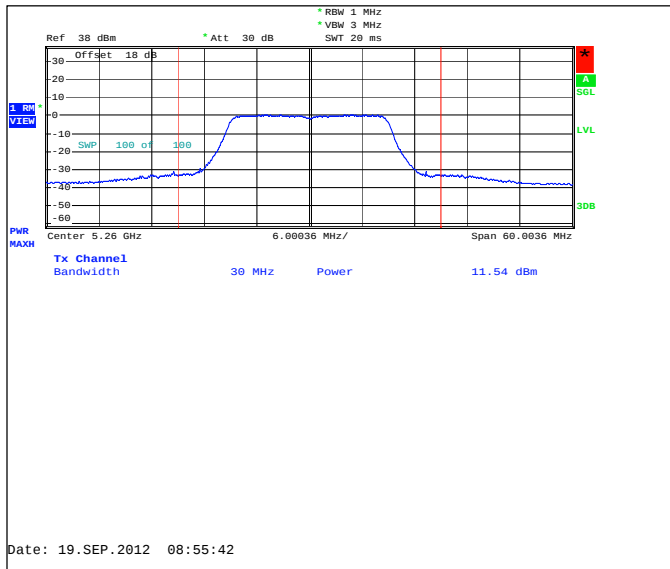
Channel 40 / 5200MHz



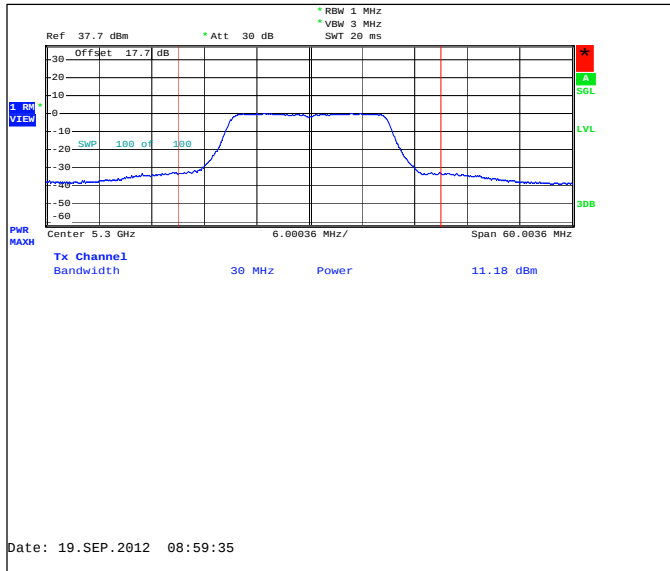
Channel 48 / 5240MHz



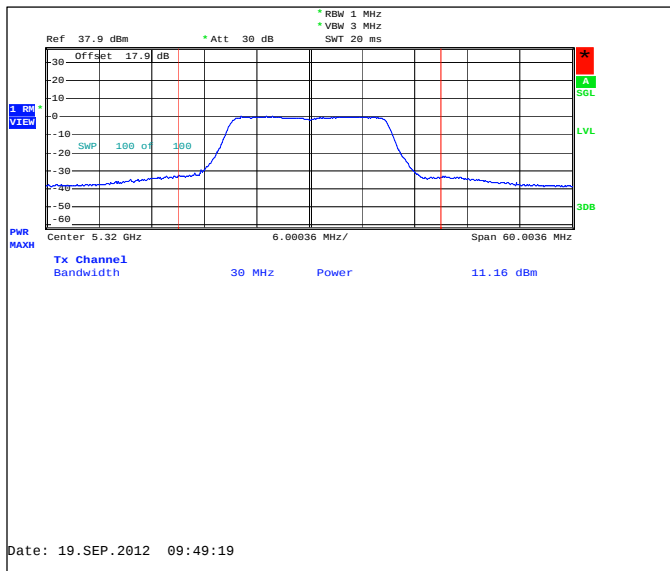
Channel 52 / 5260MHz



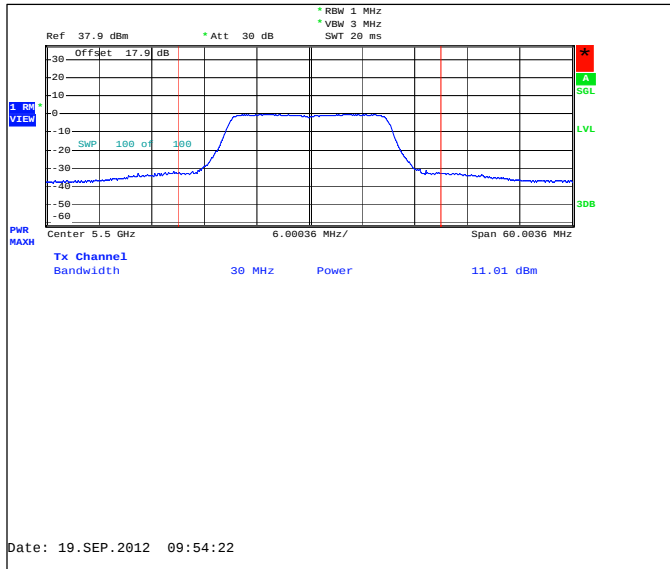
Channel 60 / 5300MHz



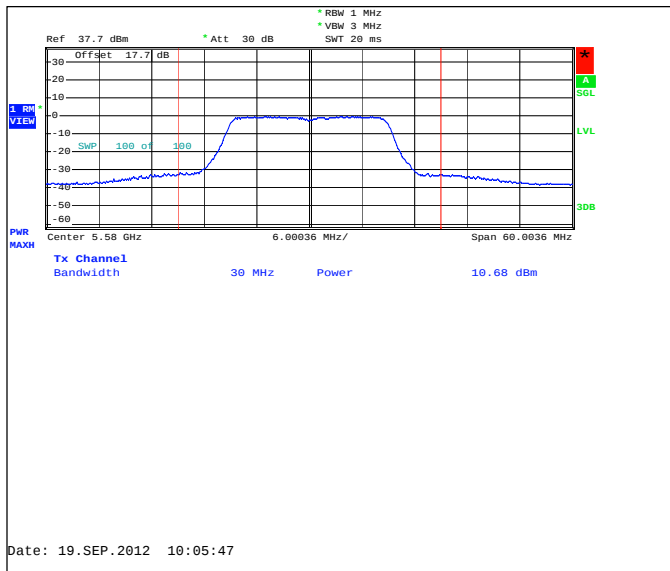
Channel 64 / 5320MHz



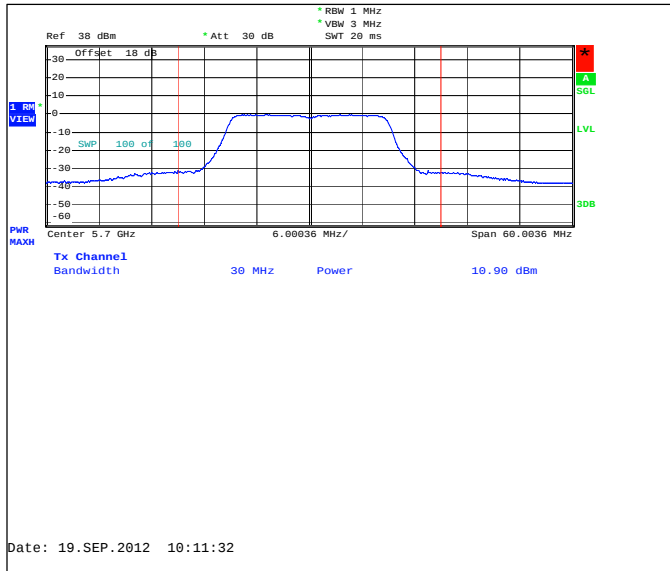
Channel 100 / 5500MHz



Channel 116 / 5580MHz



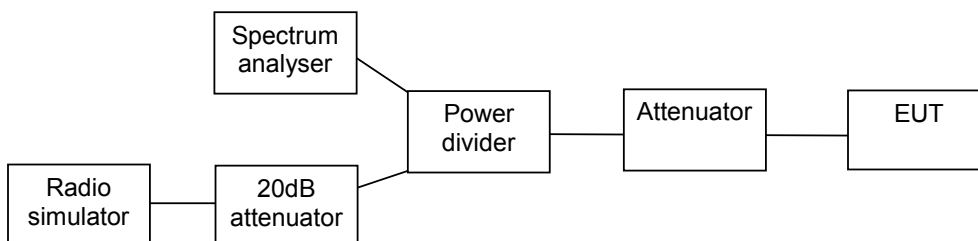
Channel 140 / 5700MHz



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

EUT with DUT number	RM-878, DUT 16639
Accessories with DUT numbers	BP-4W, DUT 16640
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 41 / 101
Date of measurements	18-Sep-2012
Measured by	Tomi Lipponen

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 peak excursion measurements

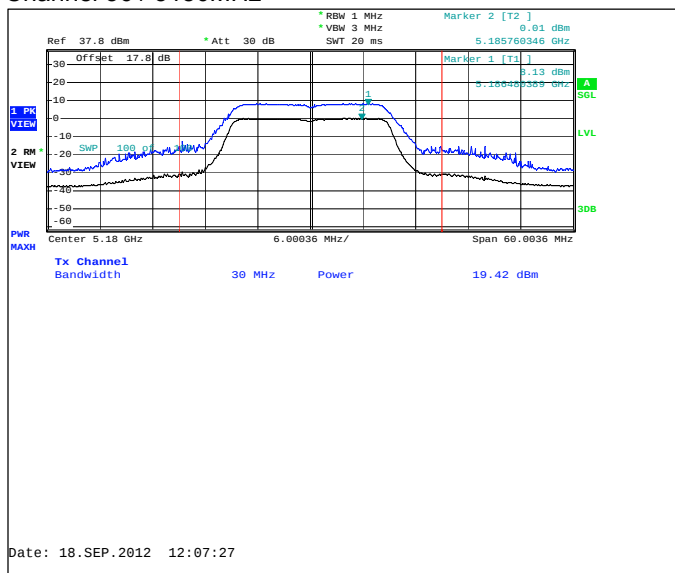
Limit [dB]
<= 13

5.3. 5 GHz RLAN Test results

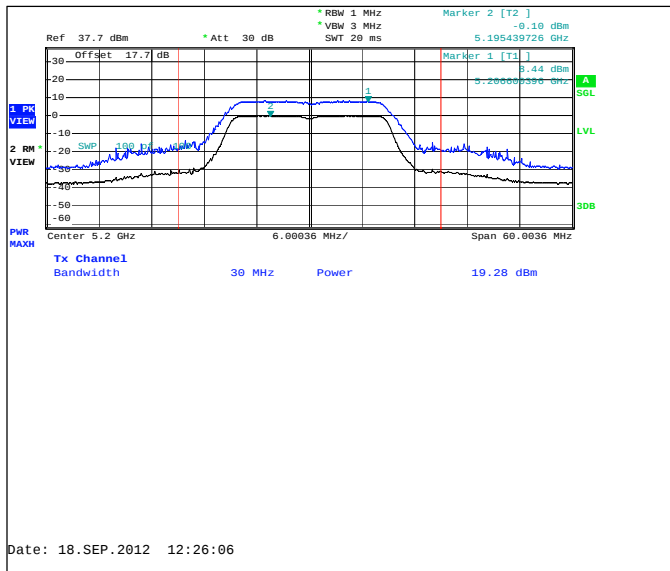
5.3.1 OFDM mode, BPSK modulation, 9 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36 / 5180	8.12	PASSED
40 / 5200	8.55	PASSED
48 / 5240	8.48	PASSED
52 / 5260	8.55	PASSED
60 / 5300	8.47	PASSED
64 / 5320	8.96	PASSED
100 / 5500	8.11	PASSED
116 / 5580	8.38	PASSED
140 / 5700	8.48	PASSED

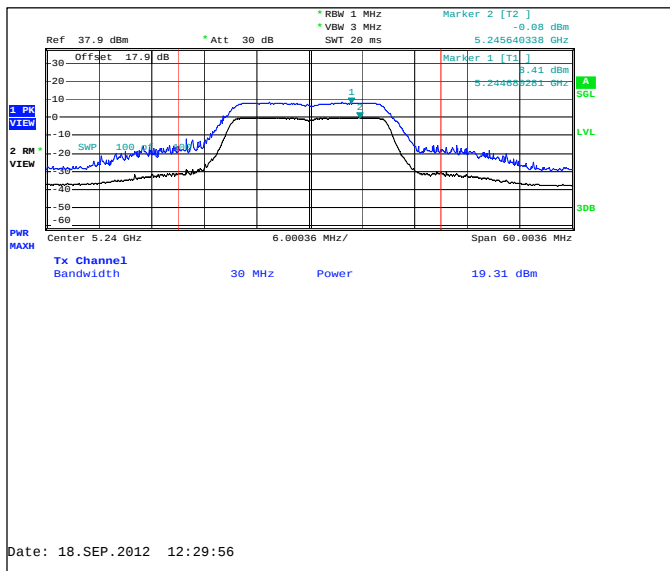
Channel 36 / 5180MHz



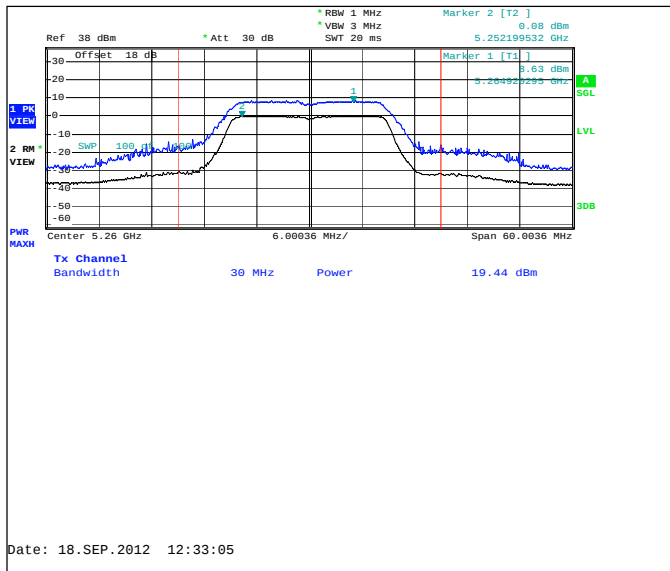
Channel 40 / 5200MHz



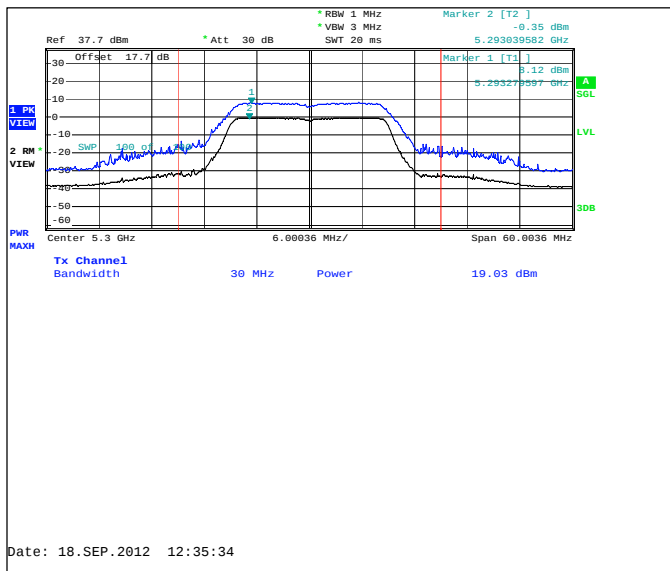
Channel 48 / 5240MHz



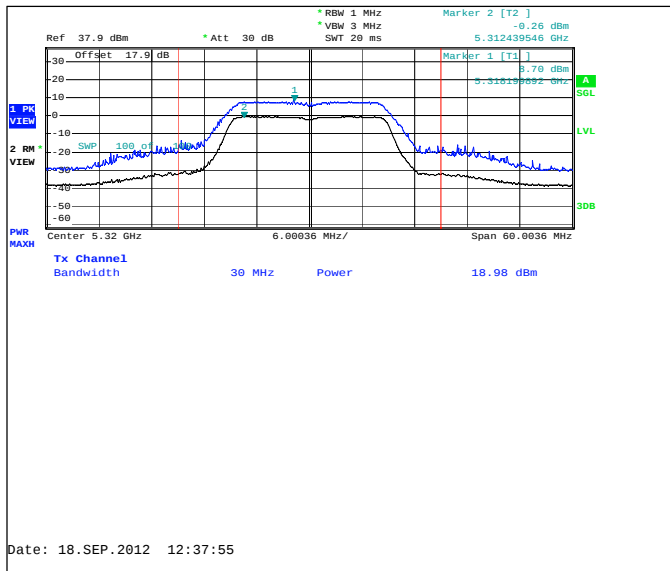
Channel 52 / 5260MHz



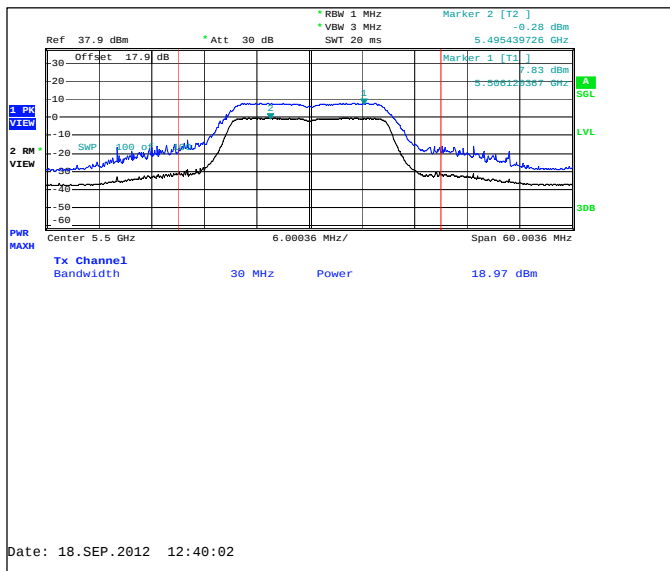
Channel 60 / 5300MHz



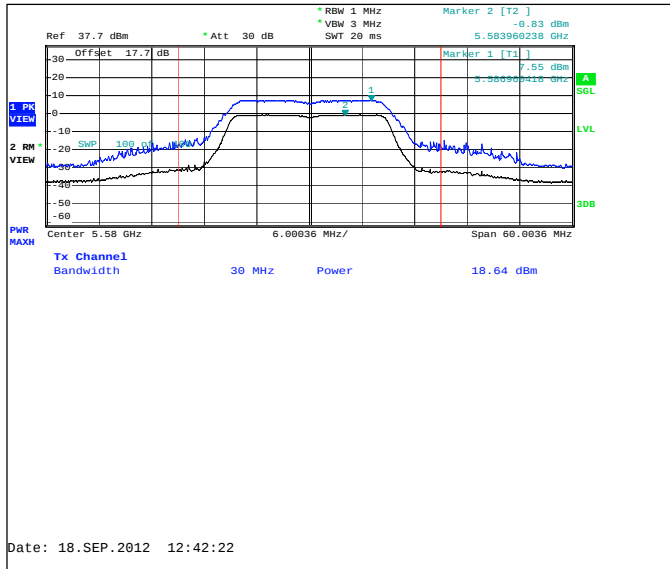
Channel 64 / 5320MHz



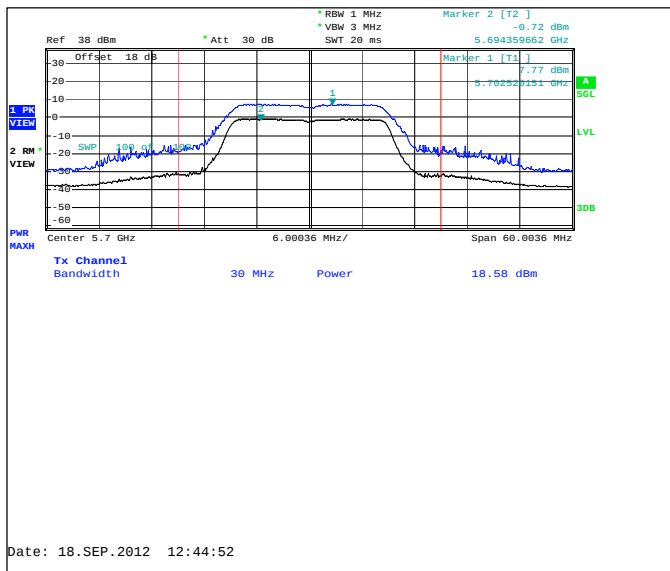
Channel 100 / 5500MHz



Channel 116 / 5580MHz



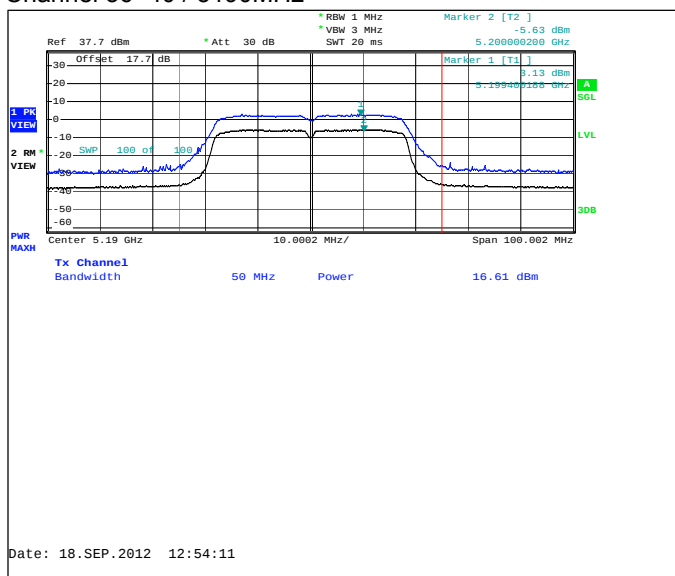
Channel 140 / 5700MHz



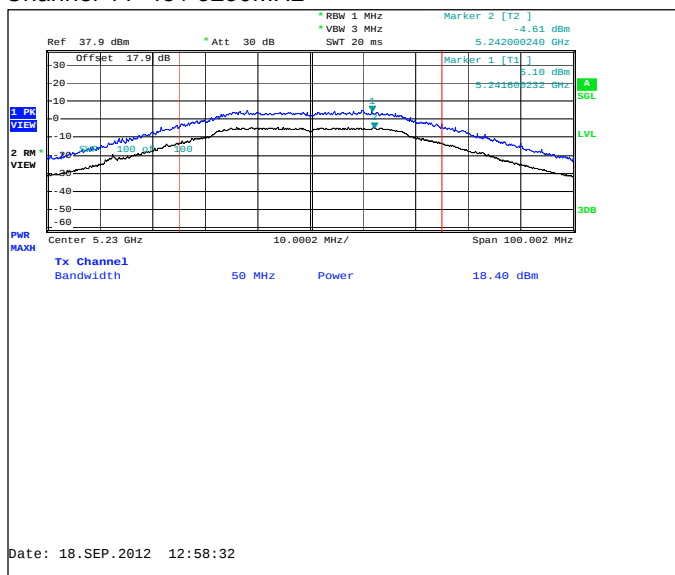
5.3.2 n-mode, 40 MHz CBW mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36+40 / 5190	8.76	PASSED
44+48 / 5230	9.71	PASSED
52+56 / 5270	8.99	PASSED
60+64 / 5310	8.62	PASSED
100+104 / 5510	8.93	PASSED
108+112 / 5550	8.75	PASSED
132+136 / 5670	8.3	PASSED

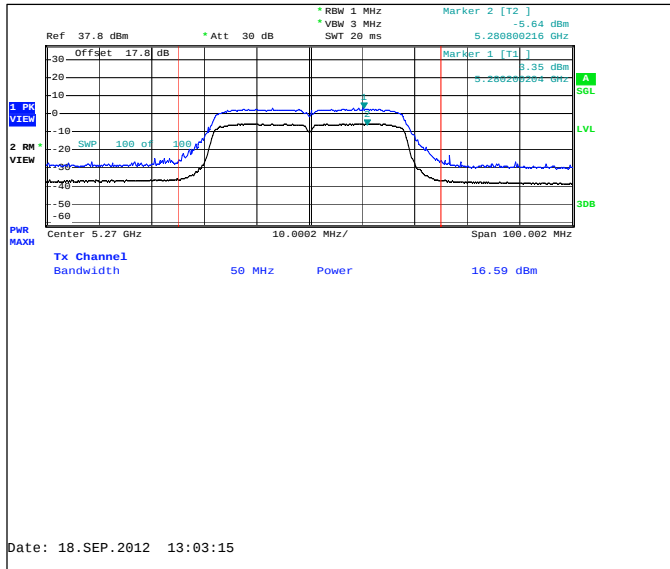
Channel 36+40 / 5190MHz



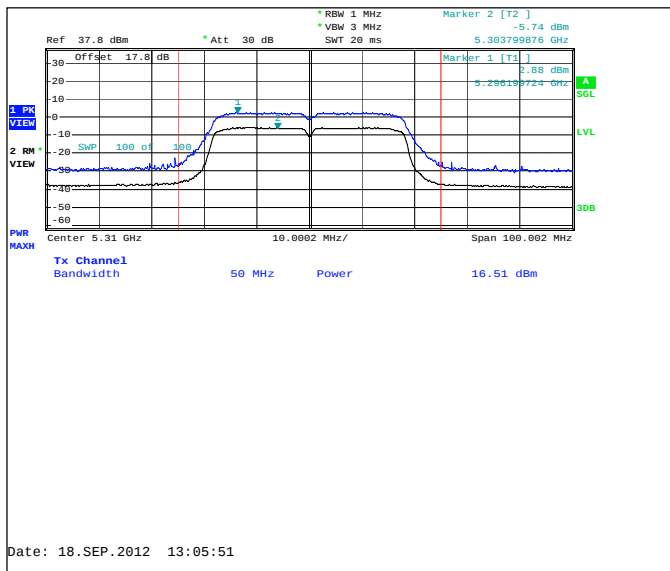
Channel 44+48 / 5230MHz



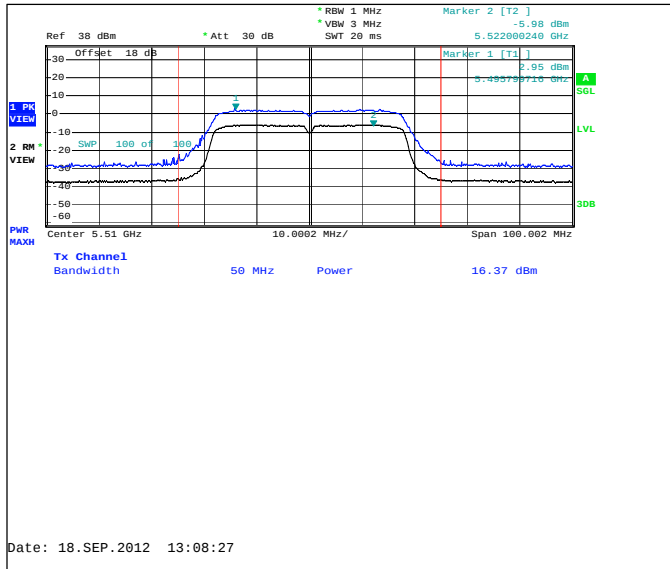
Channel 52+56 / 5270MHz



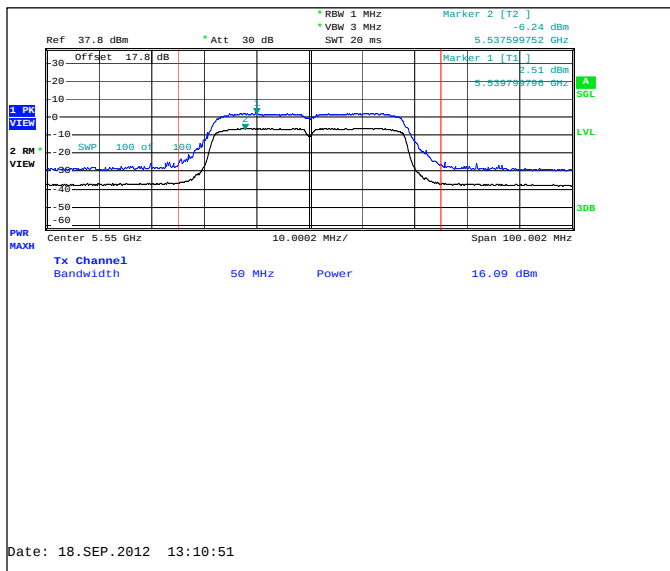
Channel 60+64 / 5310MHz



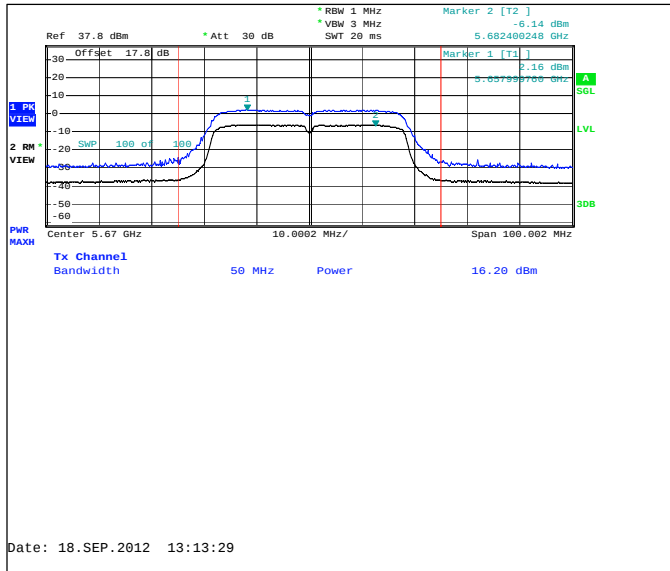
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



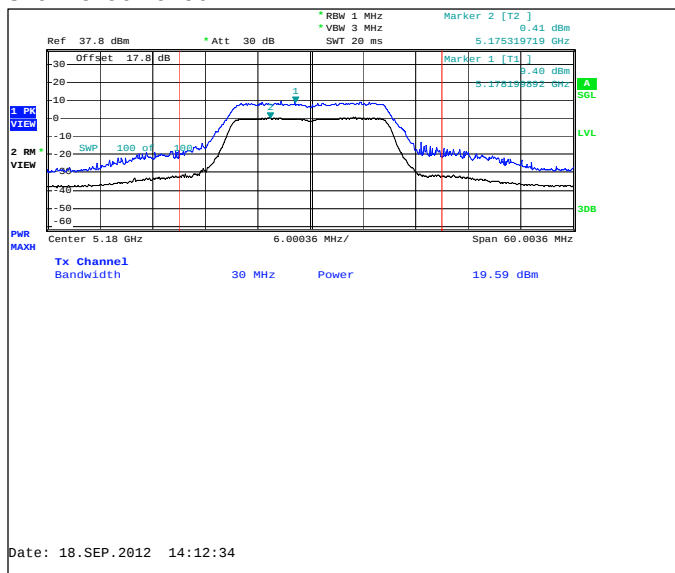
Channel 132+136 / 5670MHz



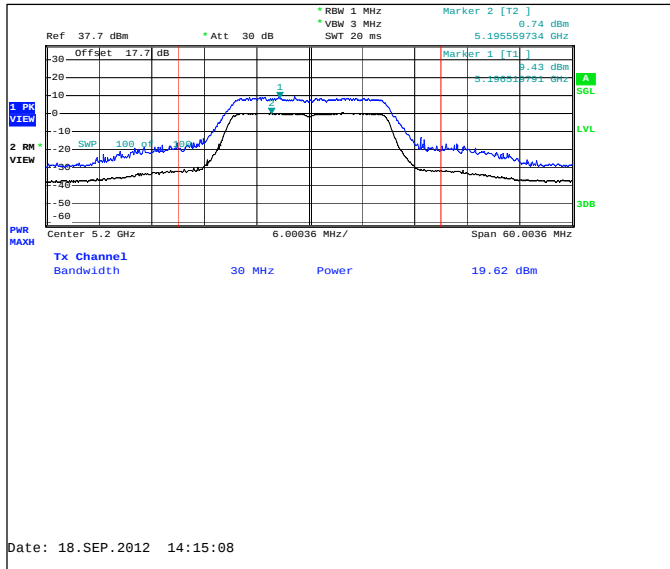
5.3.3 n-mode, 20 MHz CBW mode, 64-QAM modulation, 52.0 / 57.8 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36 / 5180	8.99	PASSED
40 / 5200	8.69	PASSED
48 / 5240	8.65	PASSED
52 / 5260	8.63	PASSED
60 / 5300	8.52	PASSED
64 / 5320	8.35	PASSED
100 / 5500	8.88	PASSED
116 / 5580	8.54	PASSED
140 / 5700	8.35	PASSED

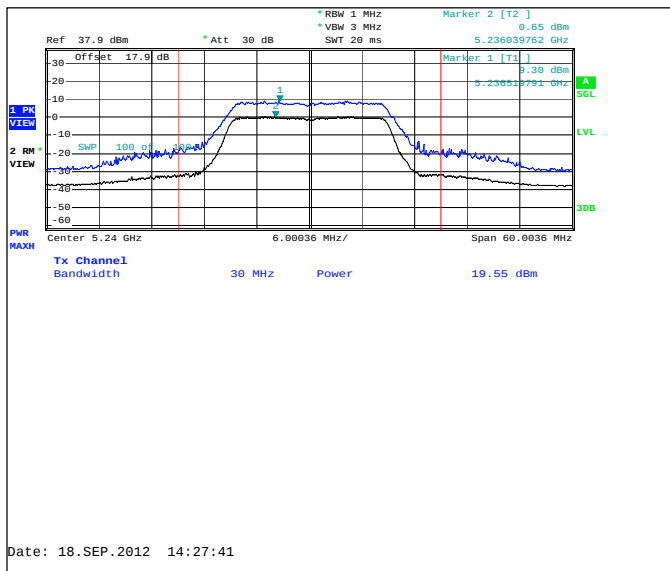
Channel 36 / 5180MHz



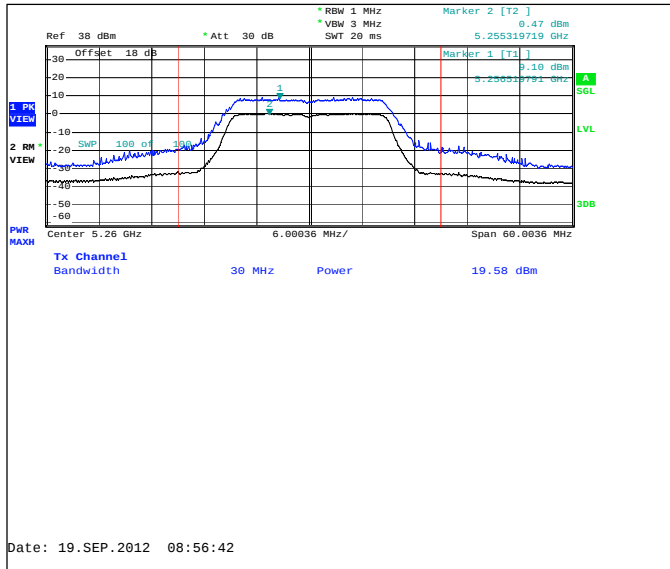
Channel 40 / 5200MHz



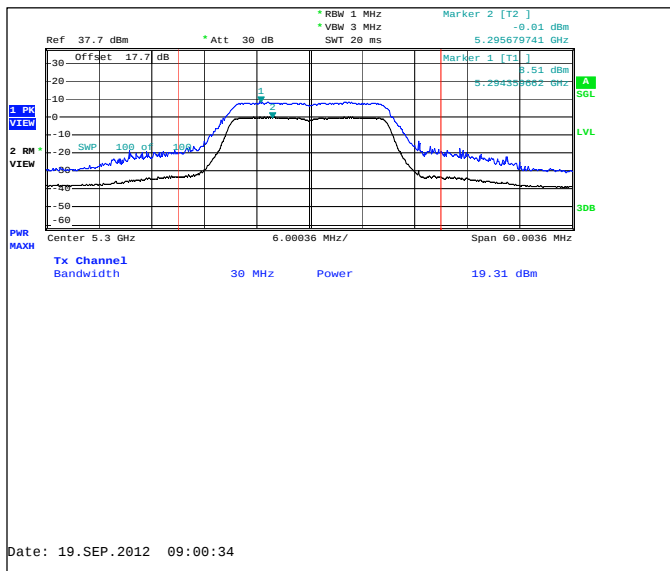
Channel 48 / 5240MHz



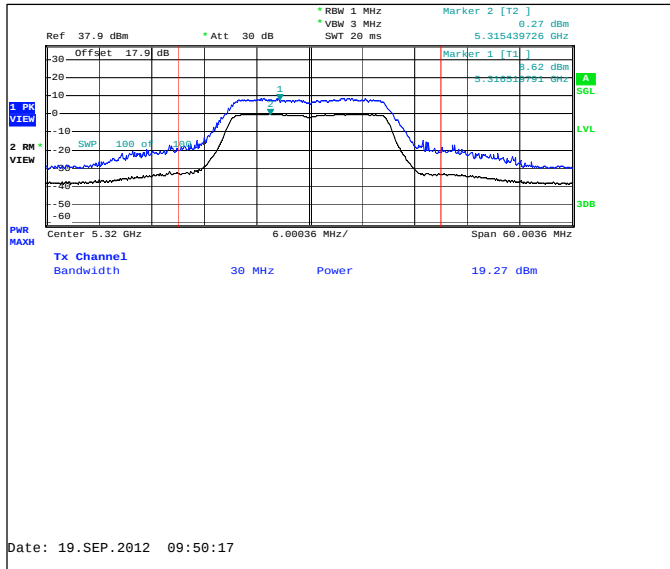
Channel 52 / 5260MHz



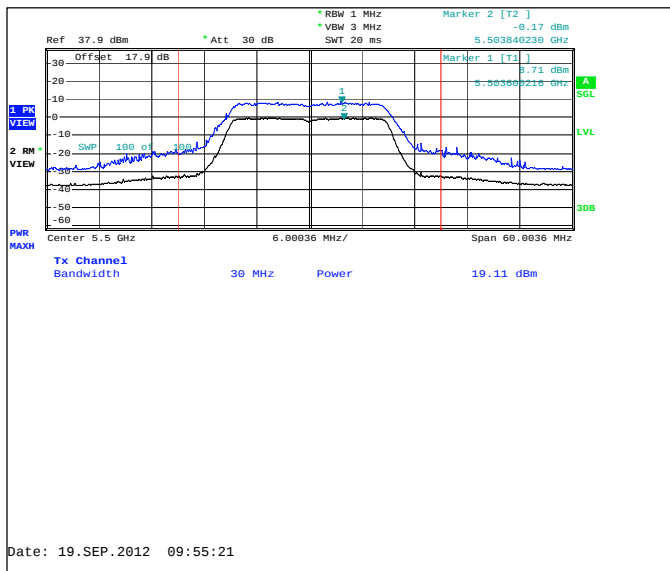
Channel 60 / 5300MHz



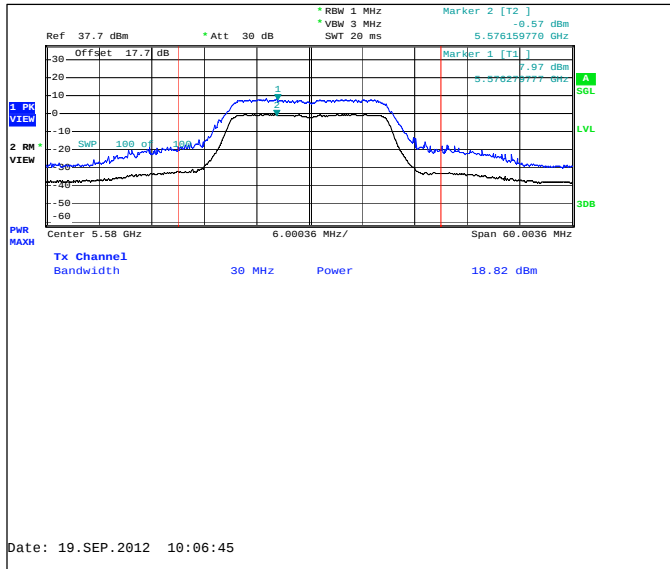
Channel 64 / 5320MHz



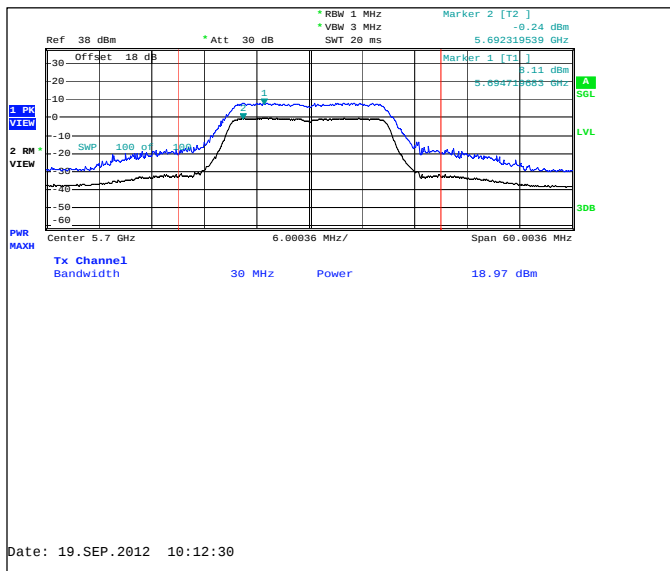
Channel 100 / 5500MHz



Channel 116 / 5580MHz



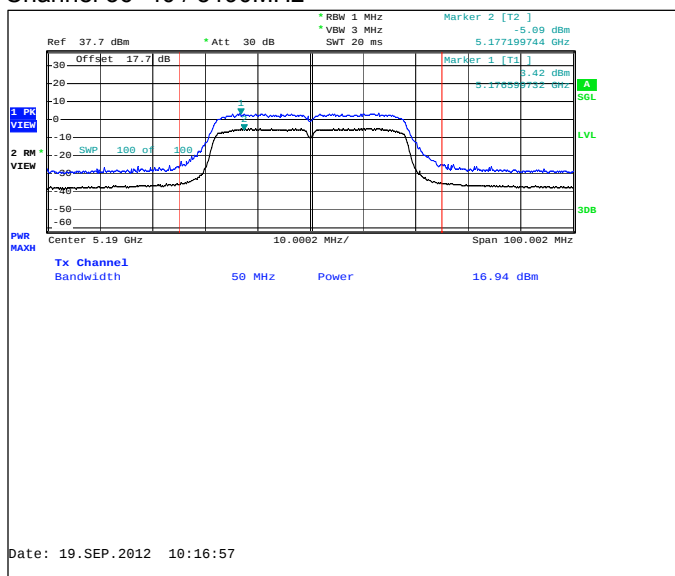
Channel 140 / 5700MHz



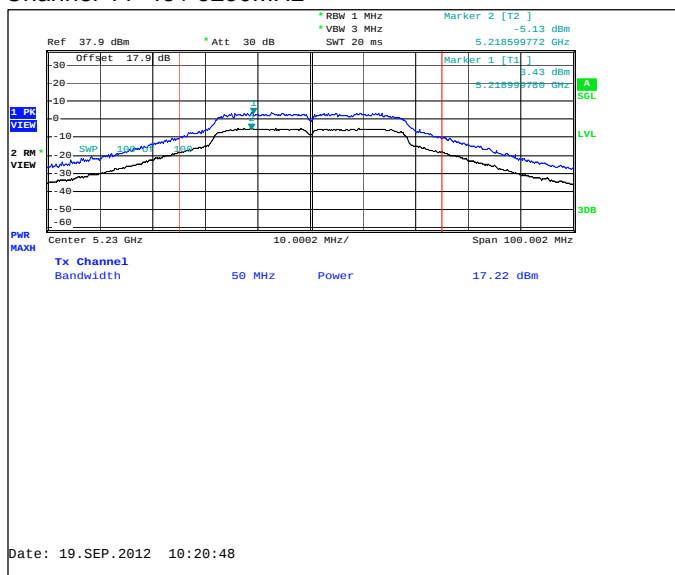
5.3.4 n-mode, 40 MHz CBW mode, 16-QAM modulation, 54.0 / 60.0 Mbps data rate

Channel / f _c [MHz]	Peak excursion [dB]	Result
36+40 / 5190	8.51	PASSED
44+48 / 5230	8.56	PASSED
52+56 / 5270	8.92	PASSED
60+64 / 5310	9.32	PASSED
100+104 / 5510	8.97	PASSED
108+112 / 5550	8.92	PASSED
132+136 / 5670	8.5	PASSED

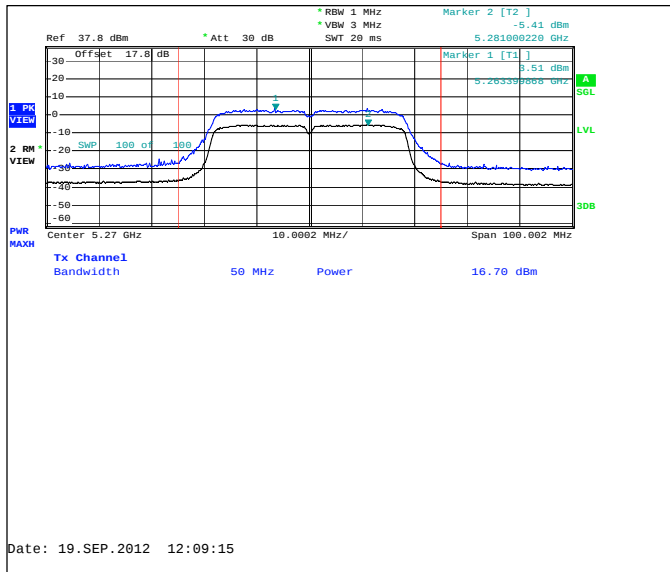
Channel 36+40 / 5190MHz



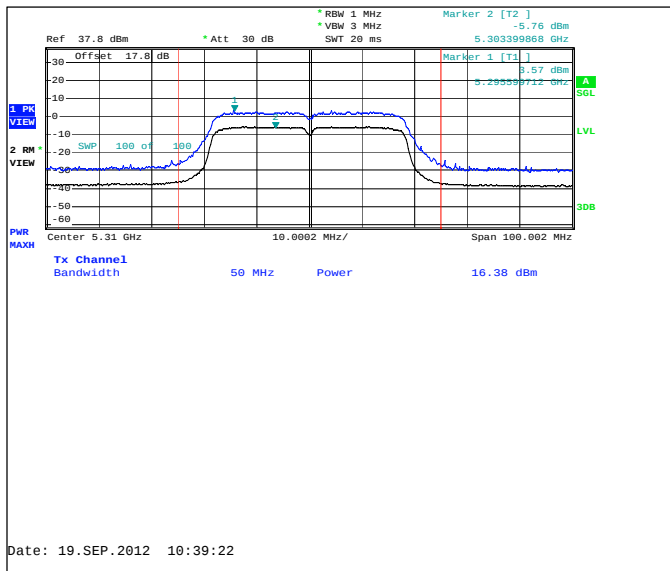
Channel 44+48 / 5230MHz



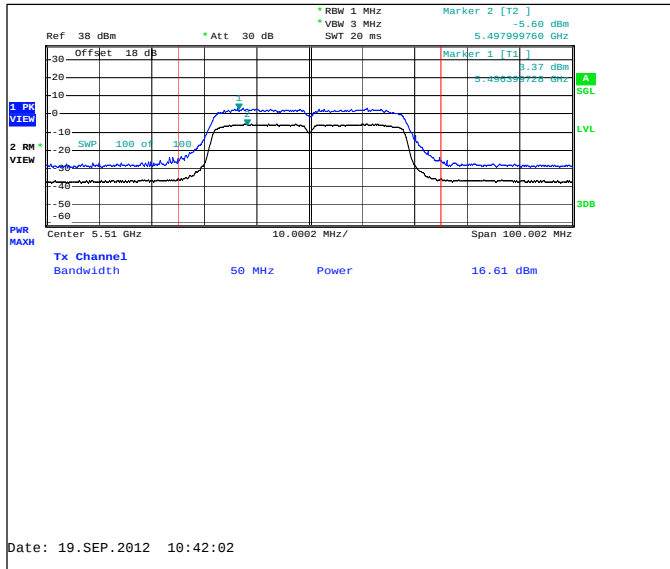
Channel 52+56 / 5270MHz



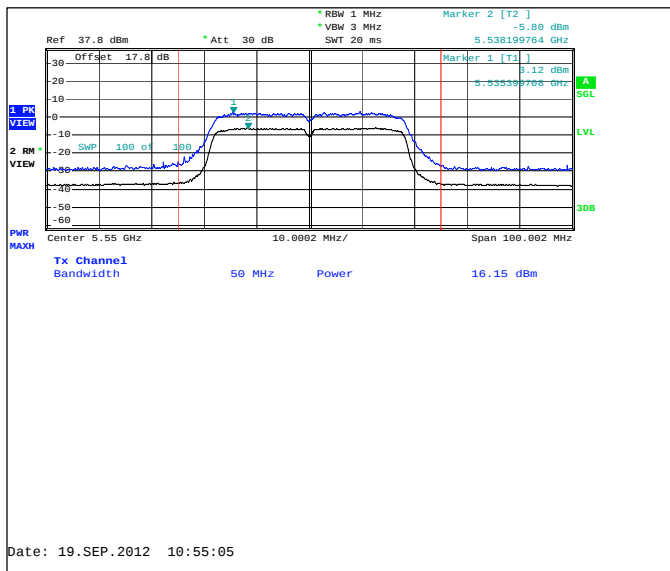
Channel 60+64 / 5310MHz



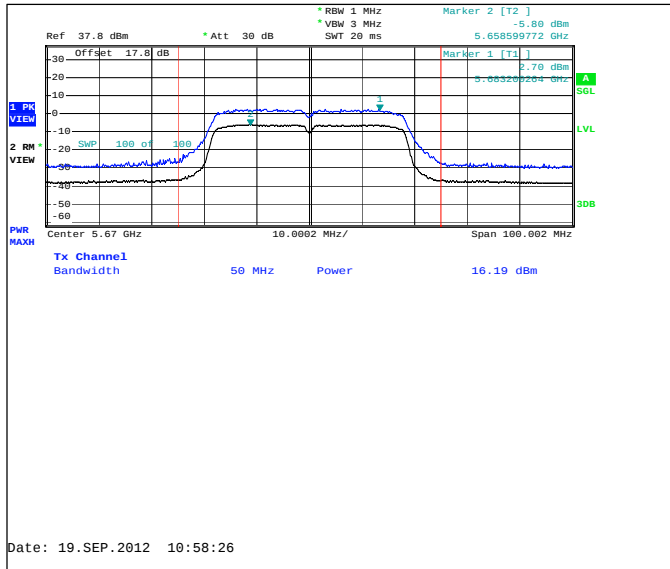
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



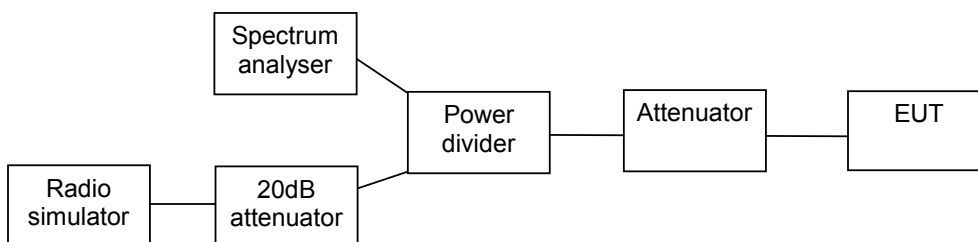
Channel 132+136 / 5670MHz



6. 26 dB bandwidth

EUT with DUT number	RM-878, DUT 16639
Accessories with DUT numbers	BP-4W, DUT 16640
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 41 / 101
Date of measurements	18-Sep-2012
Measured by	Tomi Lipponen

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 26 dB bandwidth measurements

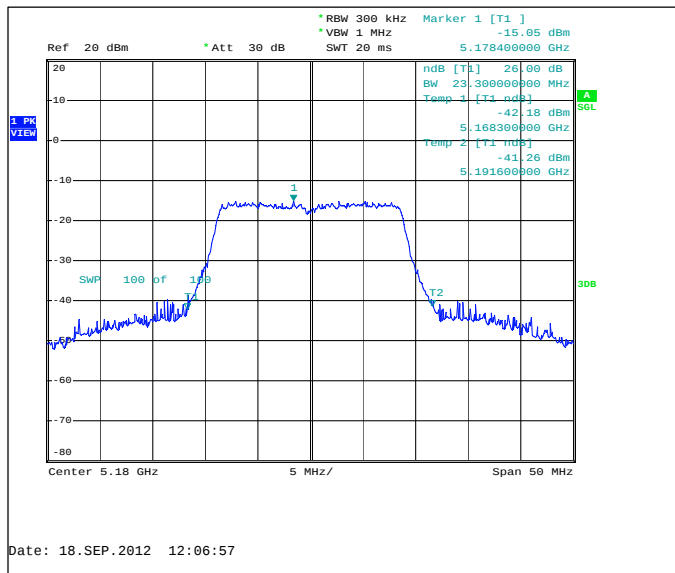
Limit [kHz]
No limit

6.3. 5 GHz RLAN Test results

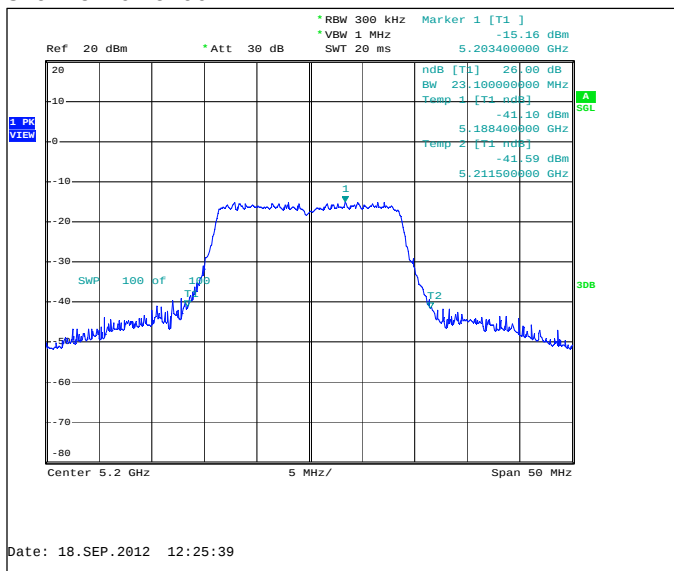
6.3.1 OFDM mode, BPSK modulation, 9 Mbps data rate

Channel / f _c [MHz]	26 dB bandwidth [kHz]	Result
36 / 5180	23300	PASSED
40 / 5200	23100	PASSED
48 / 5240	23400	PASSED
52 / 5260	22700	PASSED
60 / 5300	23000	PASSED
64 / 5320	23000	PASSED
100 / 5500	23000	PASSED
116 / 5580	23000	PASSED
140 / 5700	23200	PASSED

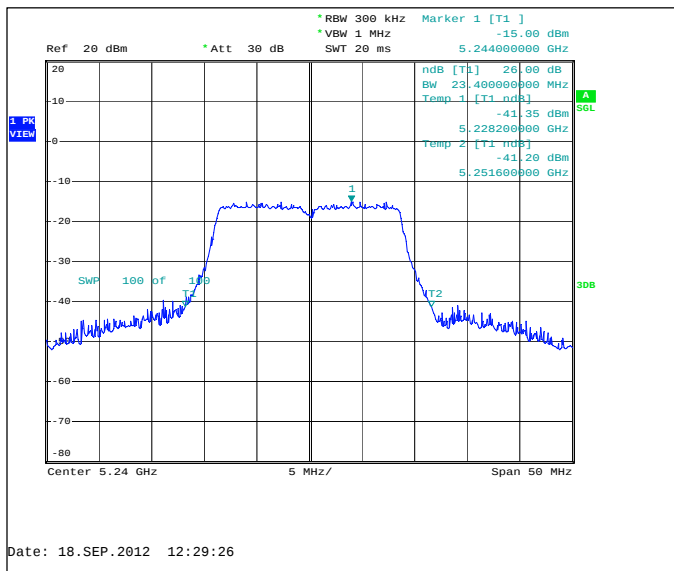
Channel 36 / 5180MHz



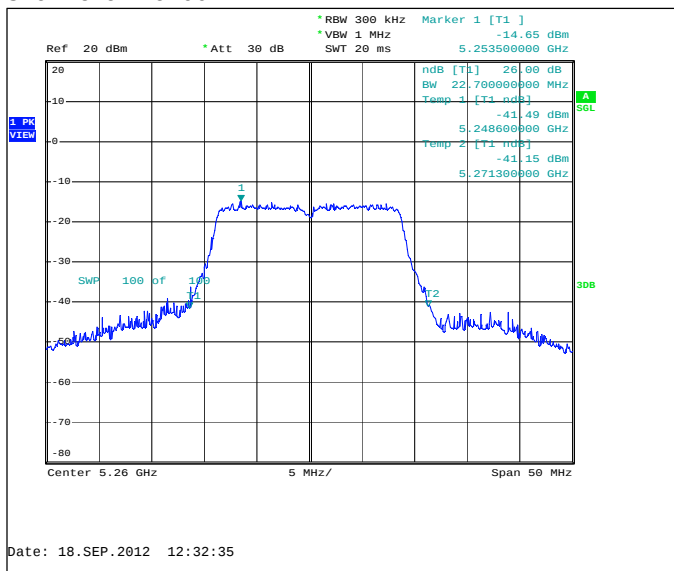
Channel 40 / 5200MHz



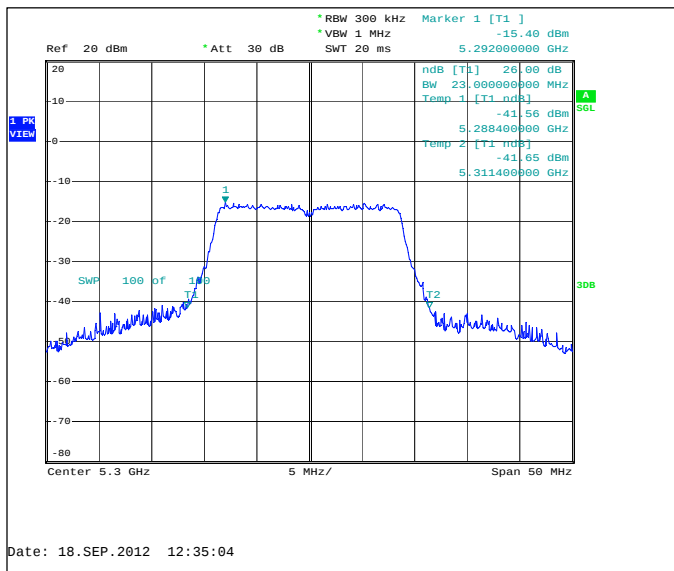
Channel 48 / 5240MHz



Channel 52 / 5260MHz



Channel 60 / 5300MHz



1 PR VIEW

Ref 20 dBm Att 30 dB

RBW 300 kHz VBW 1 MHz SWT 20 ms

Marker 1 [T1]

-15.40 dBm

5.324800000 GHz

20 dB [T1] 26.00 dB

BW 23.00000000 MHz

Temp 1 [T1 nbf]

5.308500000 GHz

-41.34 dBm

Temp 2 [T2 nbf]

5.331500000 GHz

-41.57 dBm

SWP 100 of 100

Center 5.32 GHz 5 MHz/ Span 50 MHz

dBm

1 PK VIEW

Ref 20 dBm Att 30 dB VBW 1 MHz SWT 20 ms

Marker 1 [T1]
 -15.23 dBm
 5.503900000 GHz

Marker 2 [T2]
 -41.32 dBm
 5.513000000 GHz

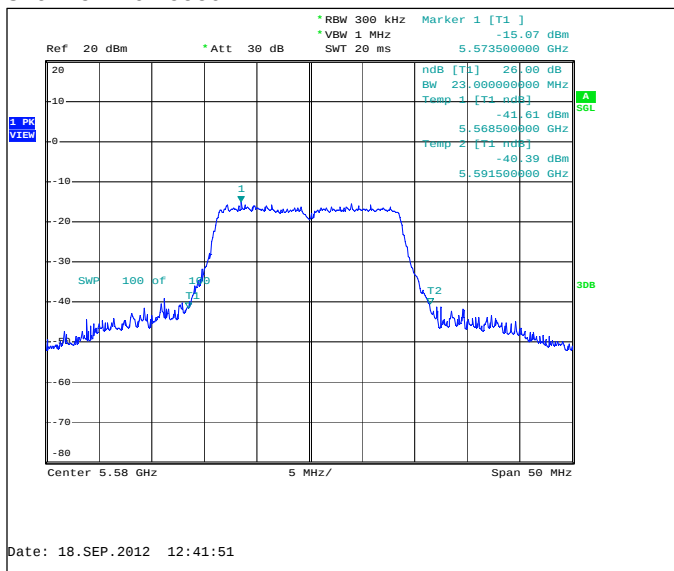
Center 5.5 GHz 5 MHz/ Span 50 MHz

1 PK VIEW

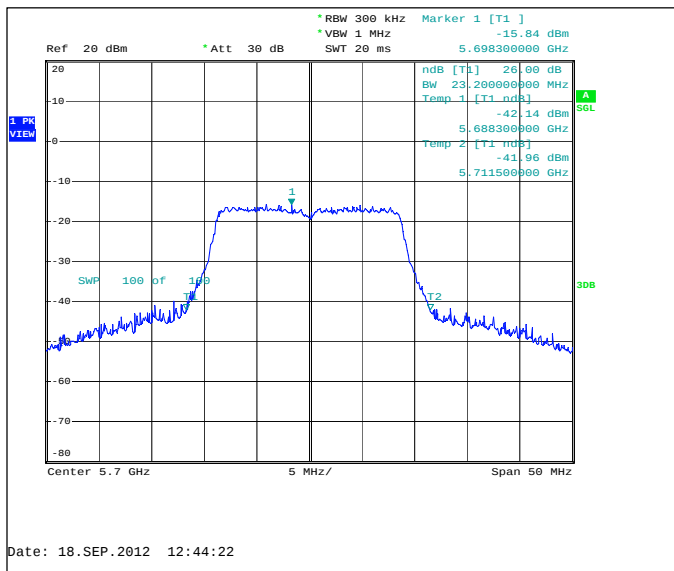
A SEL

30dB

Channel 116 / 5580MHz



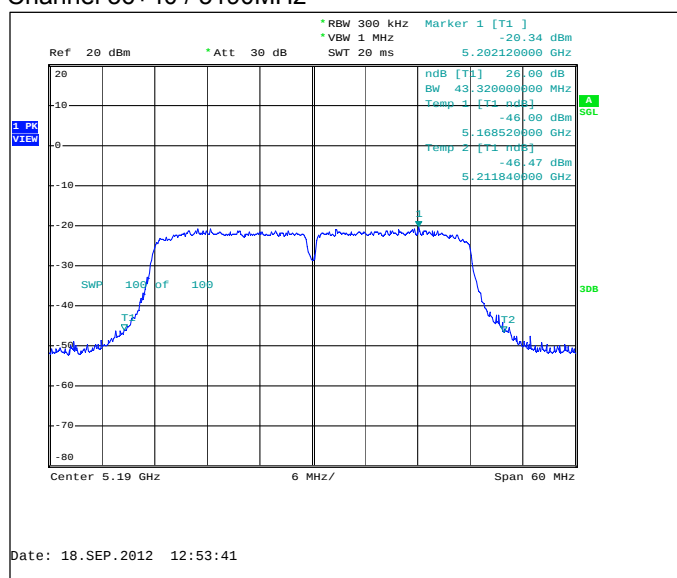
Channel 140 / 5700MHz



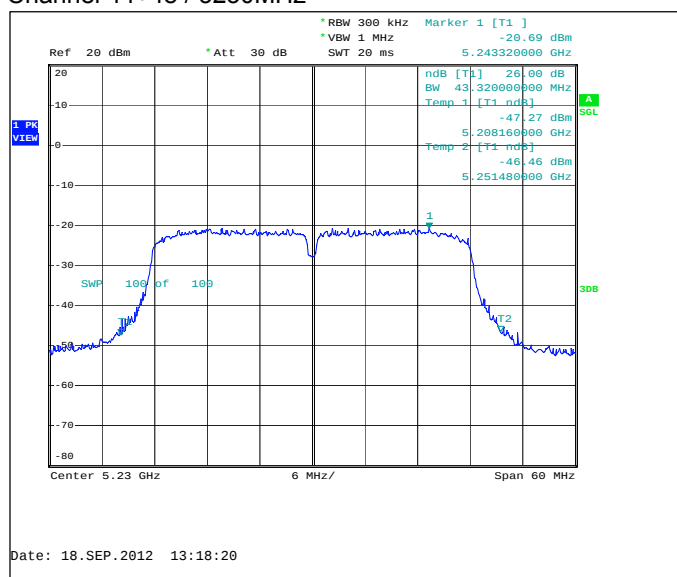
6.3.2 n-mode, 40 MHz CBW mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

Channel / f _c [MHz]	26 dB bandwidth [kHz]	Result
36+40 / 5190	43320	PASSED
44+48 / 5230	43320	PASSED
52+56 / 5270	43680	PASSED
60+64 / 5310	43680	PASSED
100+104 / 5510	43800	PASSED
108+112 / 5550	42720	PASSED
132+136 / 5670	43920	PASSED

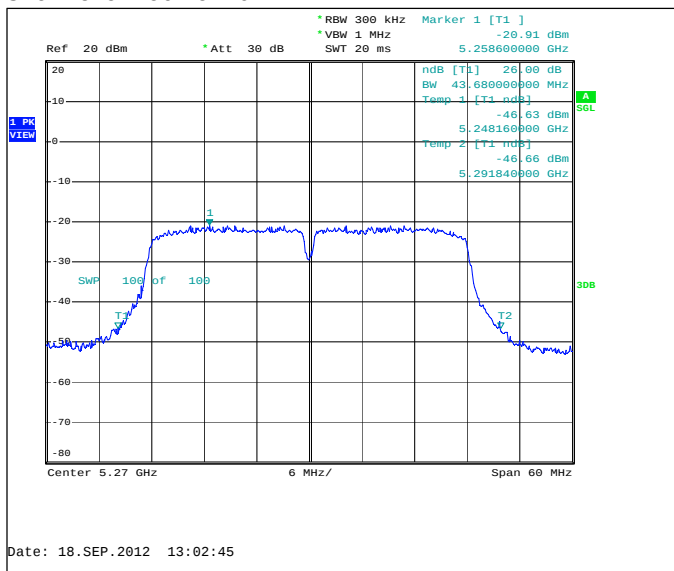
Channel 36+40 / 5190MHz



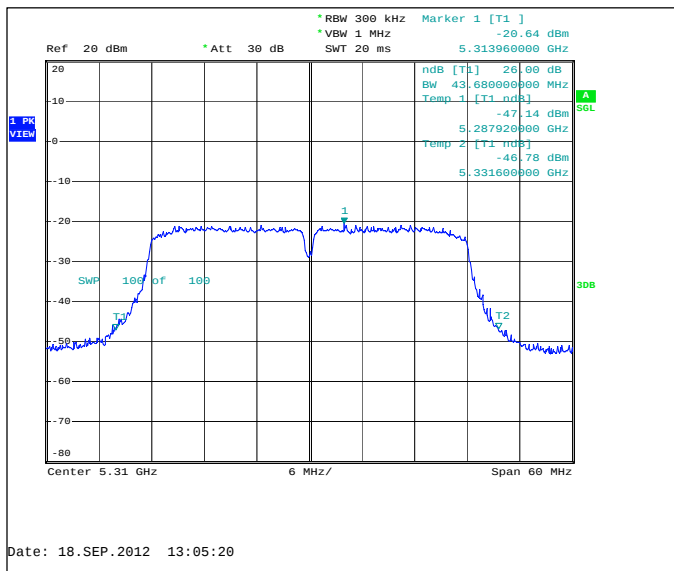
Channel 44+48 / 5230MHz



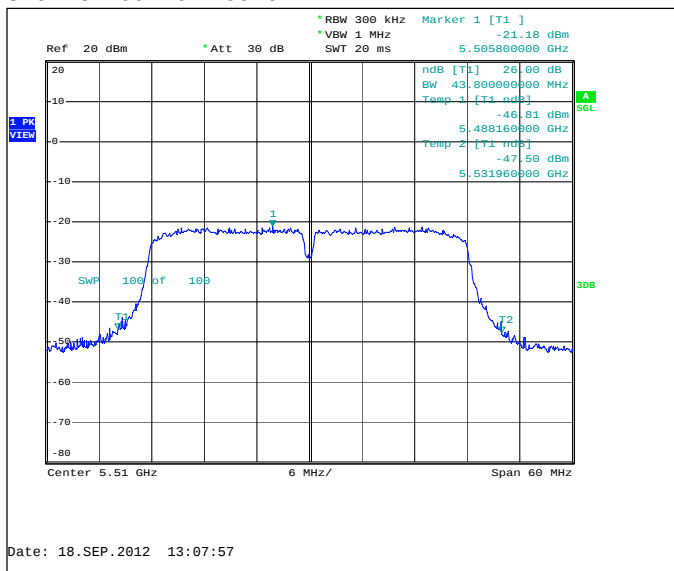
Channel 52+56 / 5270MHz



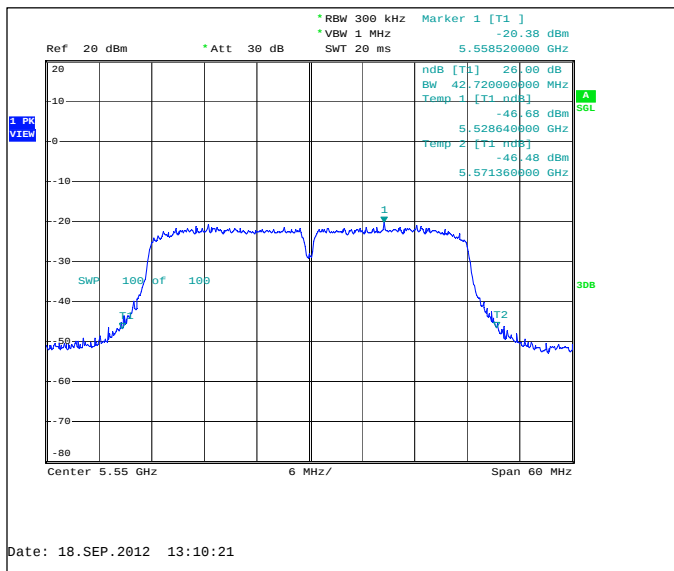
Channel 60+64 / 5310MHz



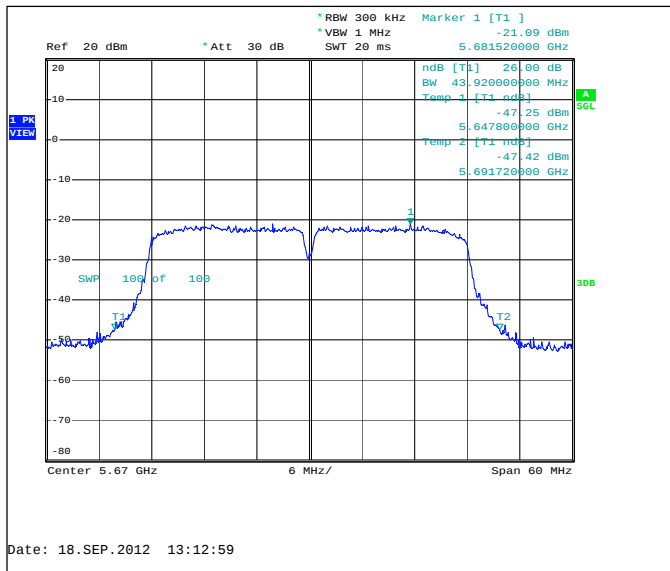
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



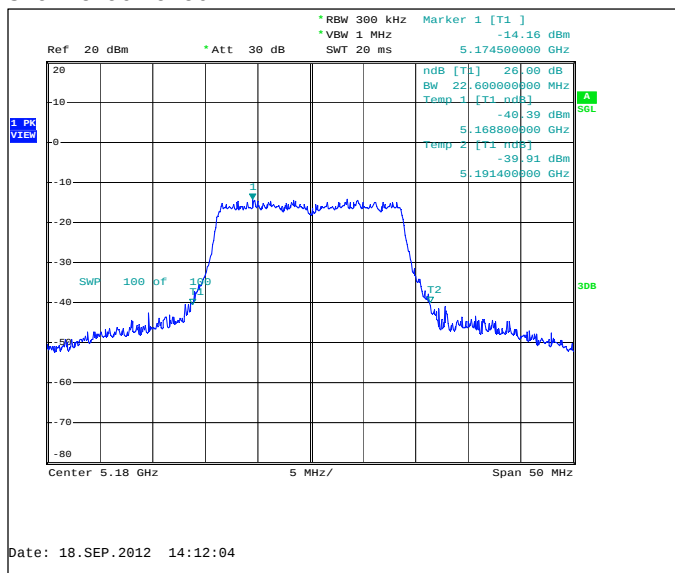
Channel 132+136 / 5670MHz



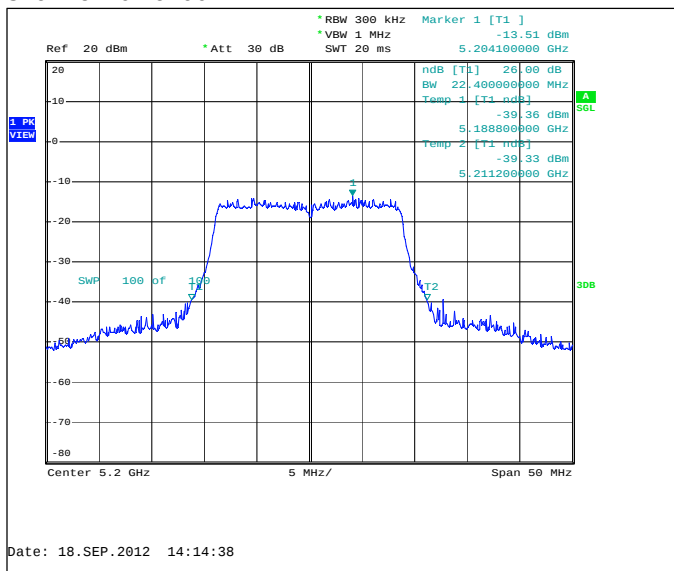
6.3.3 n-mode, 20 MHz CBW mode, 64-QAM modulation, 52.0 / 57.8 Mbps data rate

Channel / f _c [MHz]	26 dB bandwidth [kHz]	Result
36 / 5180	22600	PASSED
40 / 5200	22400	PASSED
48 / 5240	22600	PASSED
52 / 5260	22600	PASSED
60 / 5300	22600	PASSED
64 / 5320	22800	PASSED
100 / 5500	22900	PASSED
116 / 5580	22500	PASSED
140 / 5700	22800	PASSED

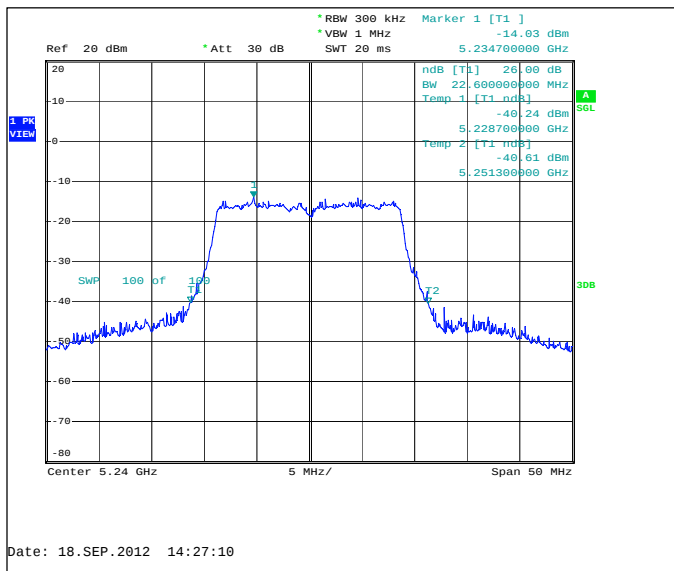
Channel 36 / 5180MHz



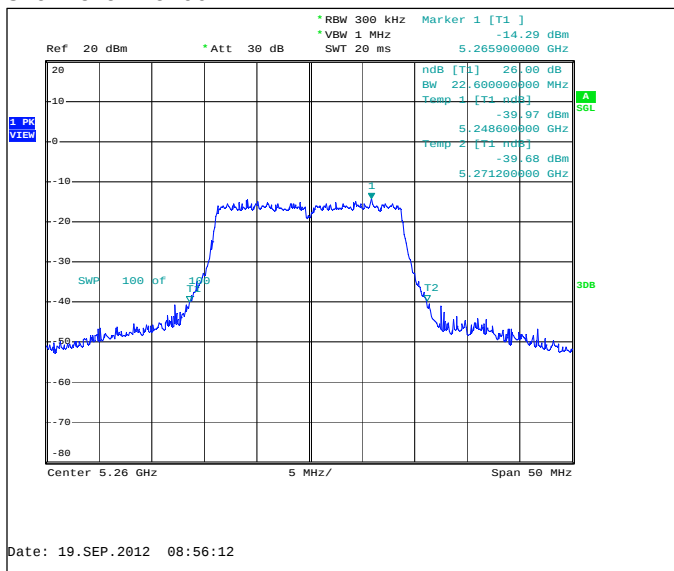
Channel 40 / 5200MHz



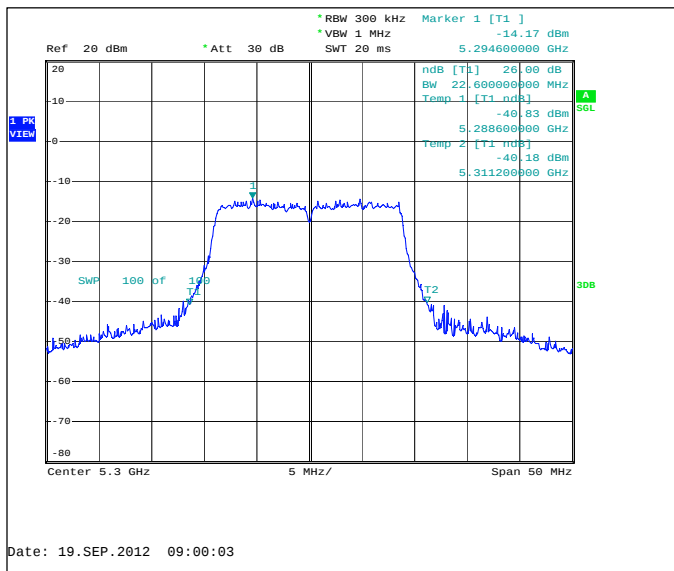
Channel 48 / 5240MHz



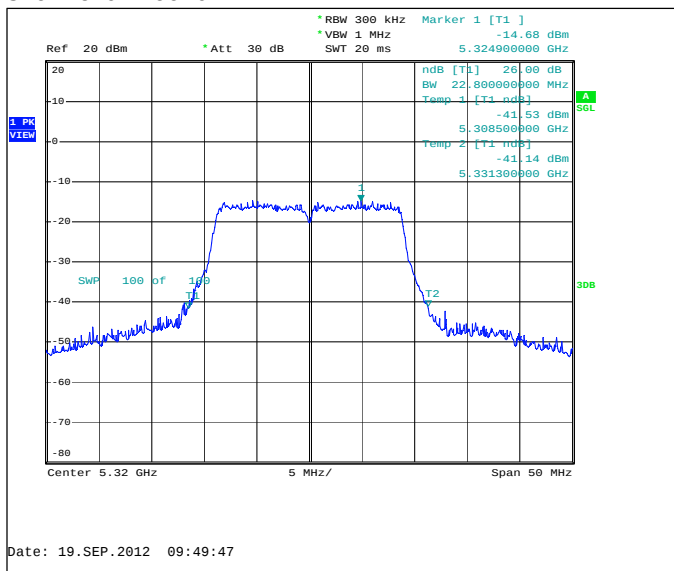
Channel 52 / 5260MHz



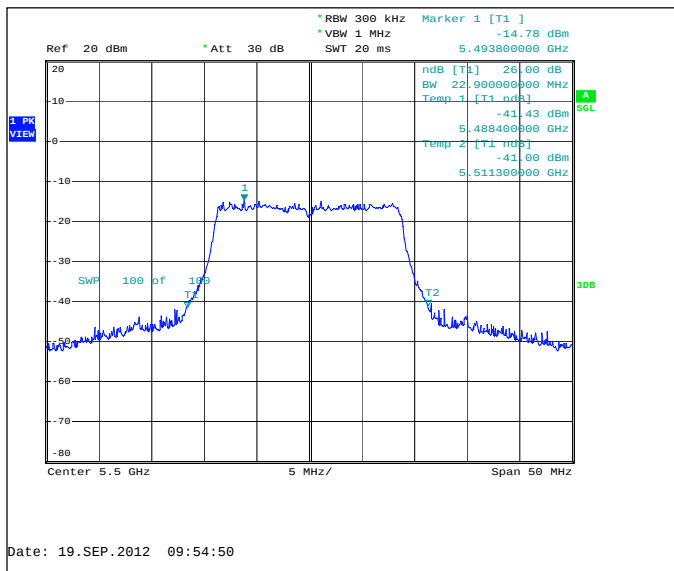
Channel 60 / 5300MHz



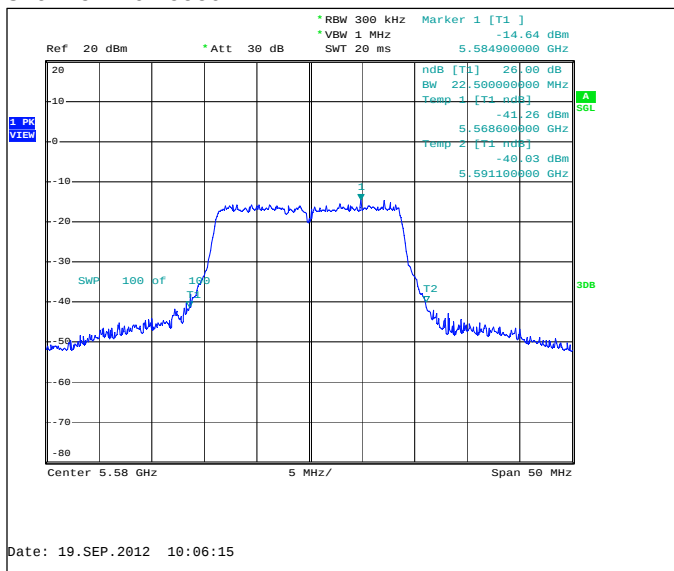
Channel 64 / 5320MHz



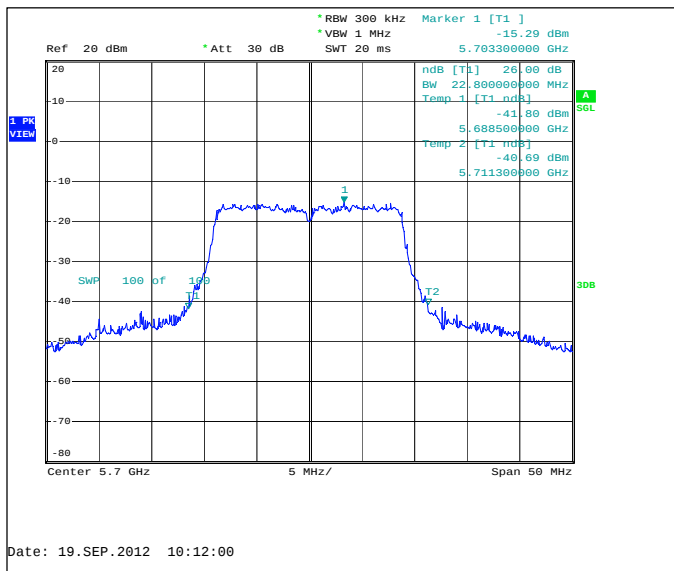
Channel 100 / 5500MHz



Channel 116 / 5580MHz



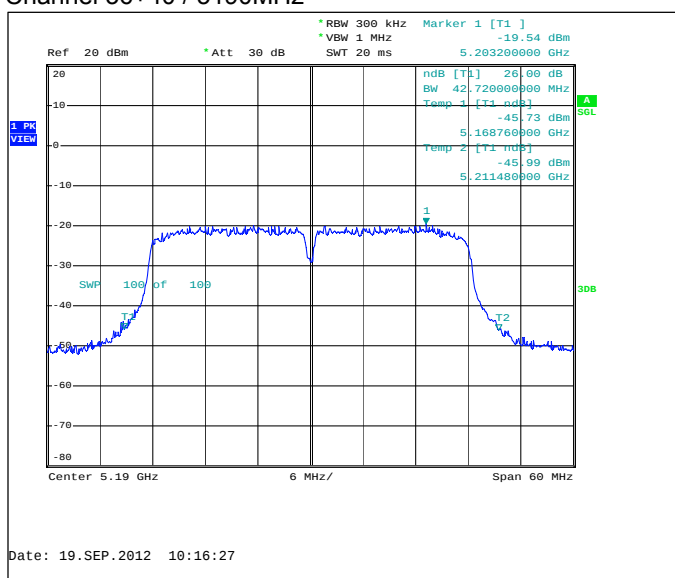
Channel 140 / 5700MHz



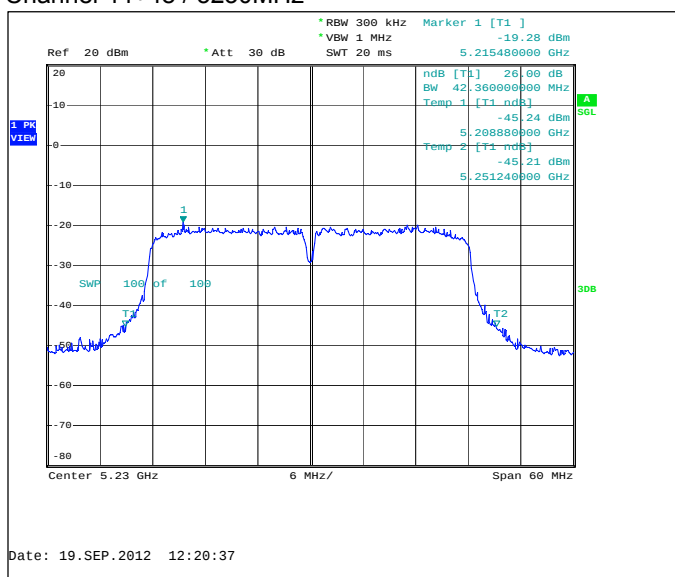
6.3.4 n-mode, 40 MHz CBW mode, 16-QAM modulation, 54.0 / 60.0 Mbps data rate

Channel / f _c [MHz]	26 dB bandwidth [kHz]	Result
36+40 / 5190	42720	PASSED
44+48 / 5230	42360	PASSED
52+56 / 5270	42240	PASSED
60+64 / 5310	42600	PASSED
100+104 / 5510	42000	PASSED
108+112 / 5550	42720	PASSED
132+136 / 5670	42240	PASSED

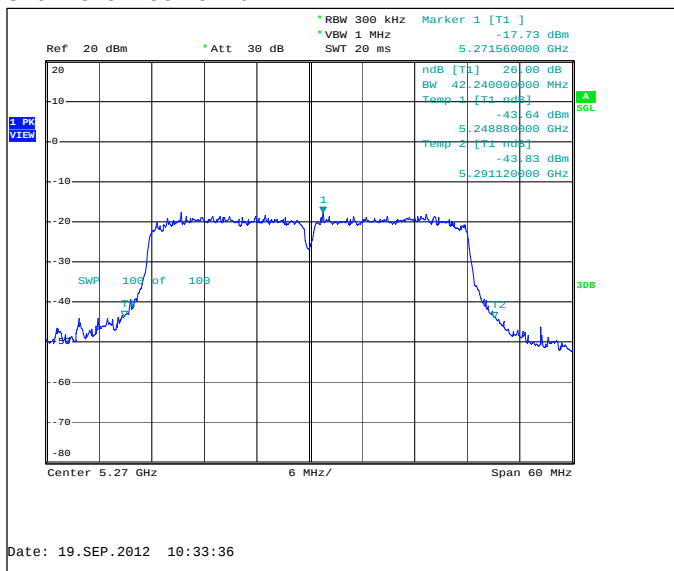
Channel 36+40 / 5190MHz



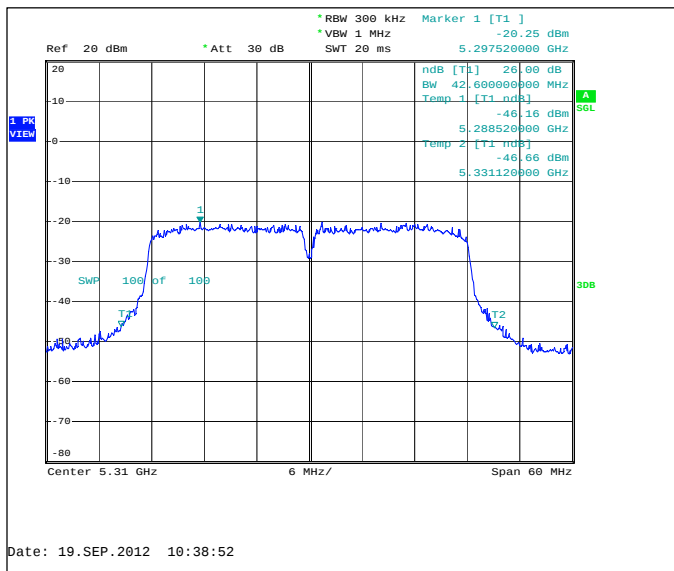
Channel 44+48 / 5230MHz



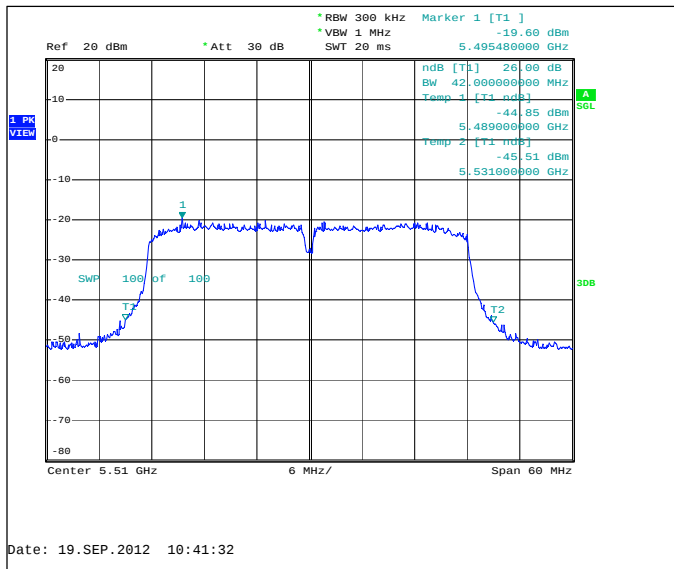
Channel 52+56 / 5270MHz



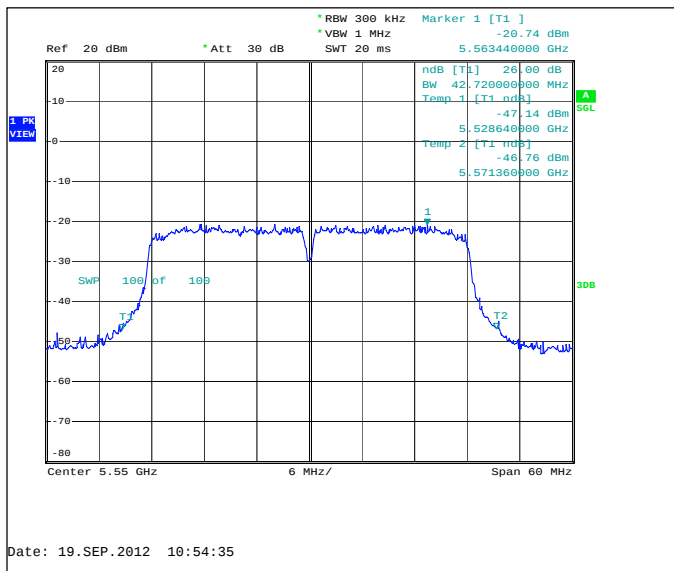
Channel 60+64 / 5310MHz



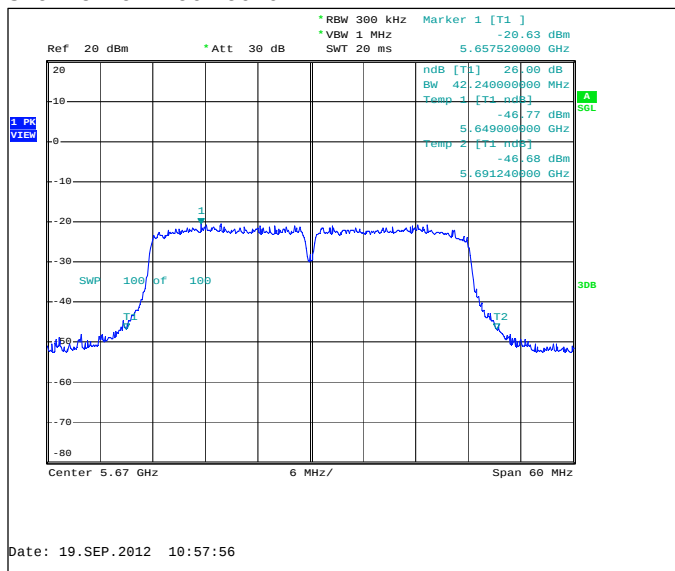
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



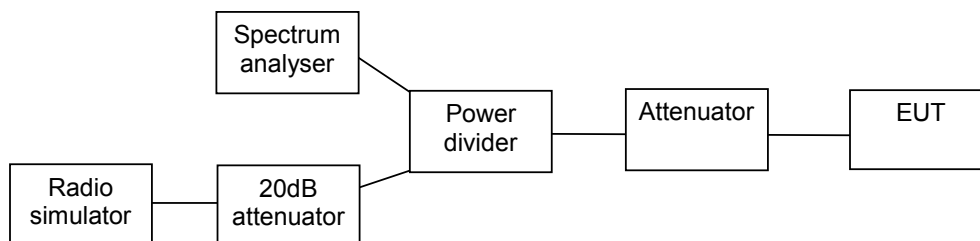
Channel 132+136 / 5670MHz



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

EUT with DUT number	RM-878, DUT 16639
Accessories with DUT numbers	BP-4W, DUT 16640
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 41 / 101
Date of measurements	18-Sep-2012
Measured by	Tomi Lipponen

7.1. Test Setup



7.2. 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

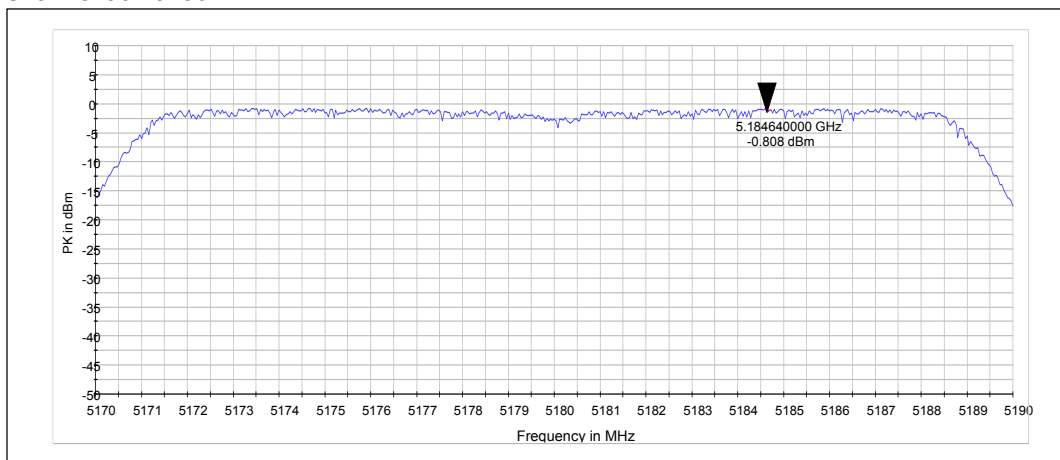
7.3. 5 GHz RLAN Test results

7.3.1 OFDM mode, BPSK modulation, 9 Mbps data rate

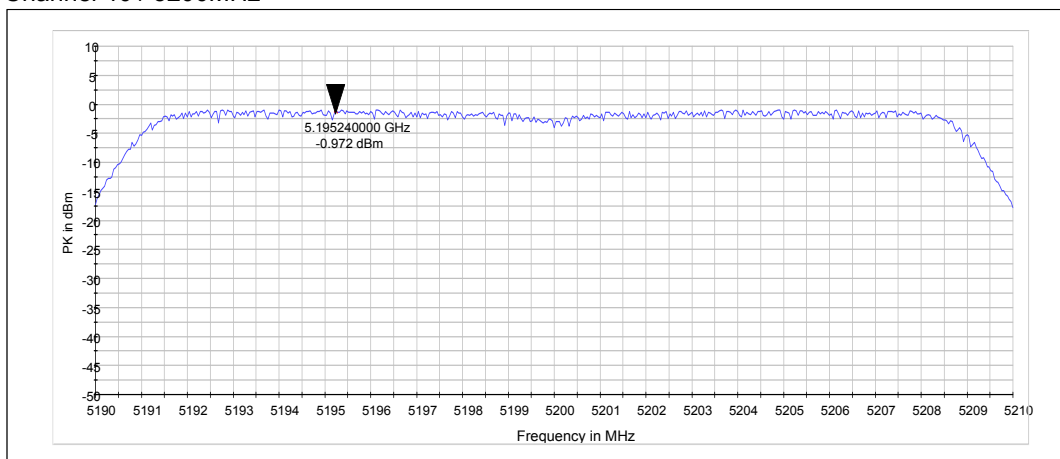
RMS detector (RBW: 1 MHz, VBW: 3 MHz, Video averaging)

Channel / f_c [MHz]	P [dBm]	Result
36 / 5180	-0.81	PASSED
40 / 5200	-0.97	PASSED
48 / 5240	-0.88	PASSED
52 / 5260	-0.99	PASSED
60 / 5300	-1.2	PASSED
64 / 5320	-1.29	PASSED
100 / 5500	-1.38	PASSED
116 / 5580	-1.53	PASSED
140 / 5700	-1.63	PASSED

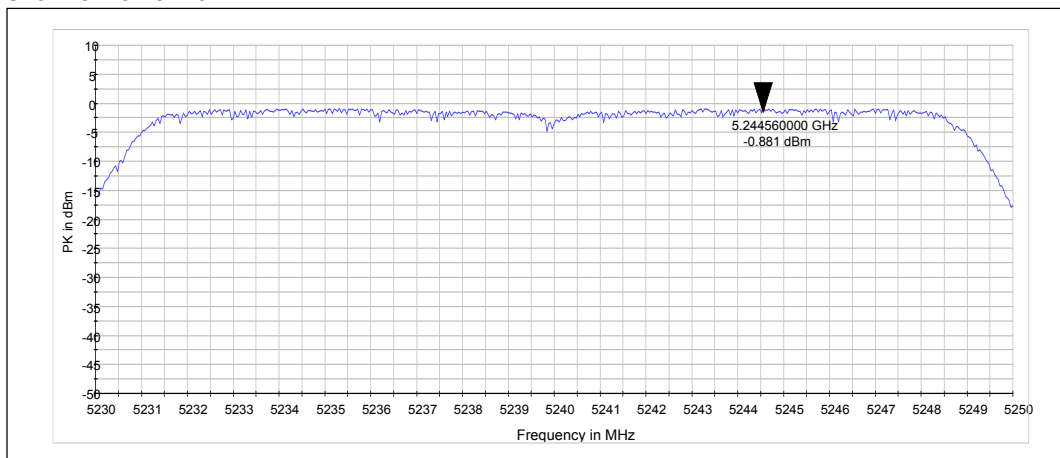
Channel 36 / 5180MHz



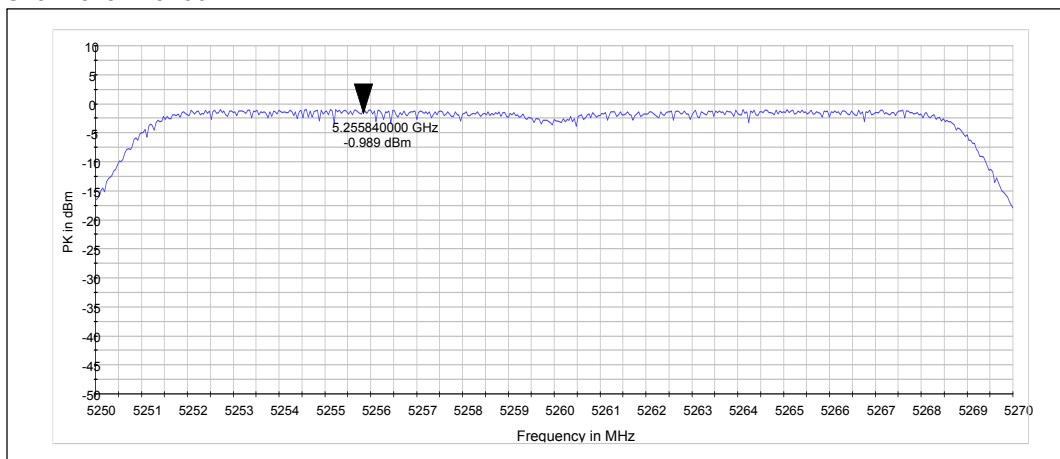
Channel 40 / 5200MHz



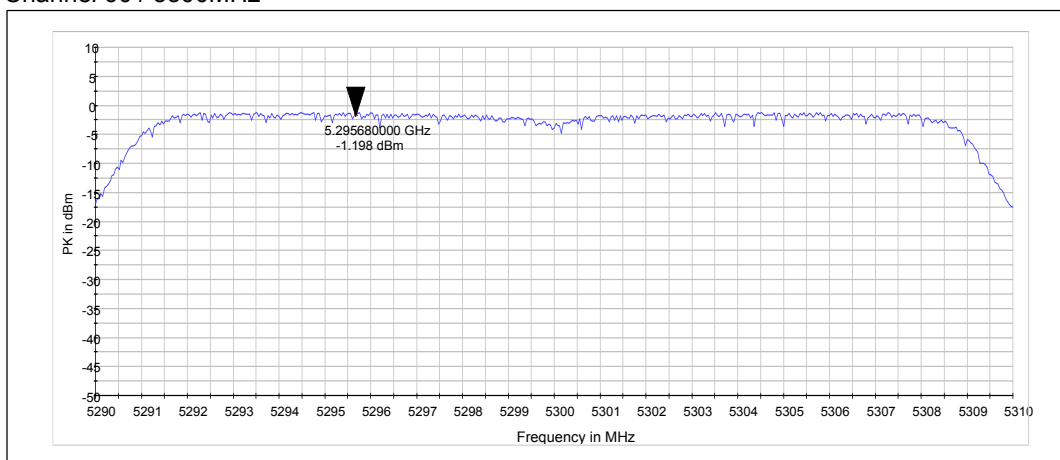
Channel 48 / 5240MHz



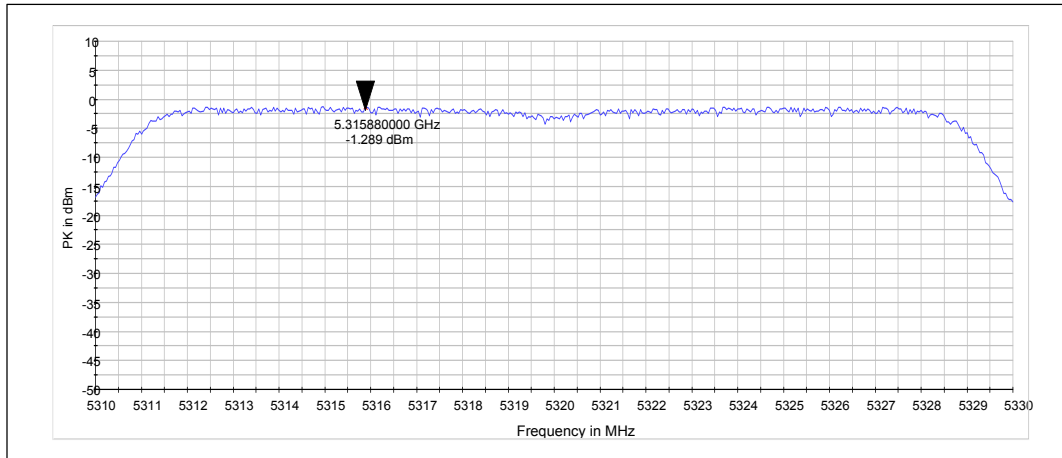
Channel 52 / 5260MHz



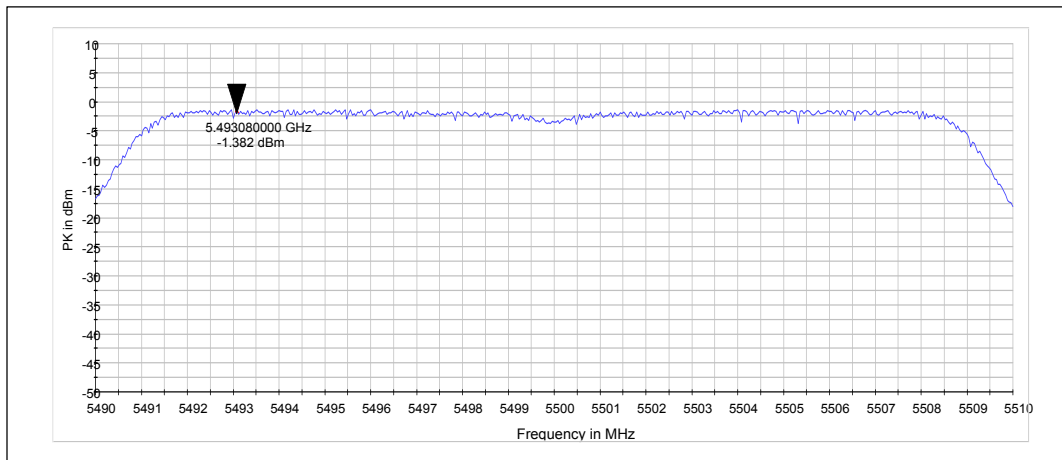
Channel 60 / 5300MHz



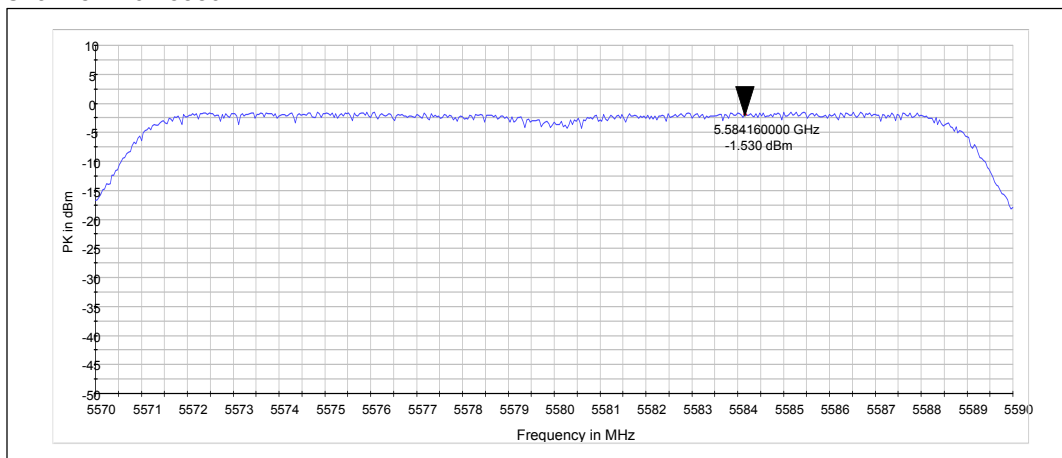
Channel 64 / 5320MHz



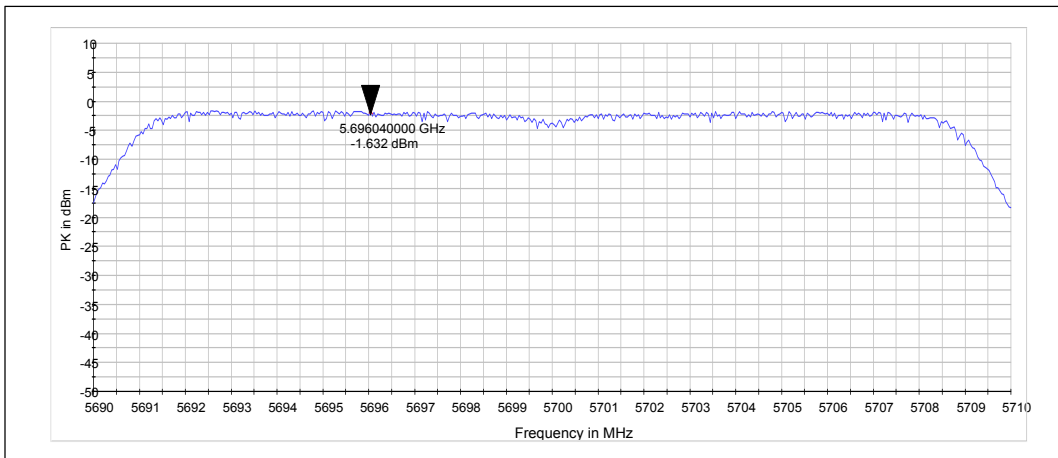
Channel 100 / 5500MHz



Channel 116 / 5580MHz



Channel 140 / 5700MHz

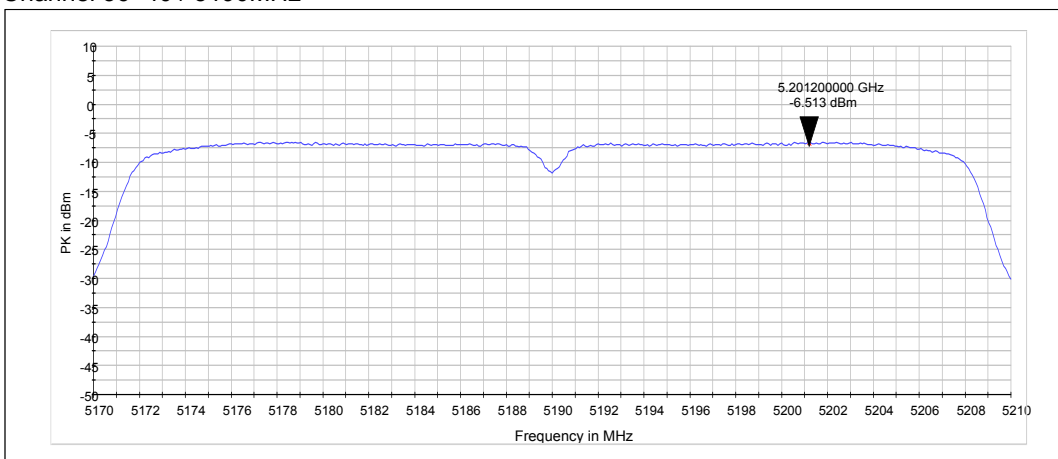


7.3.2 n-mode, 40 MHz CBW mode, BPSK modulation, 13.5 / 15.0 Mbps data rate

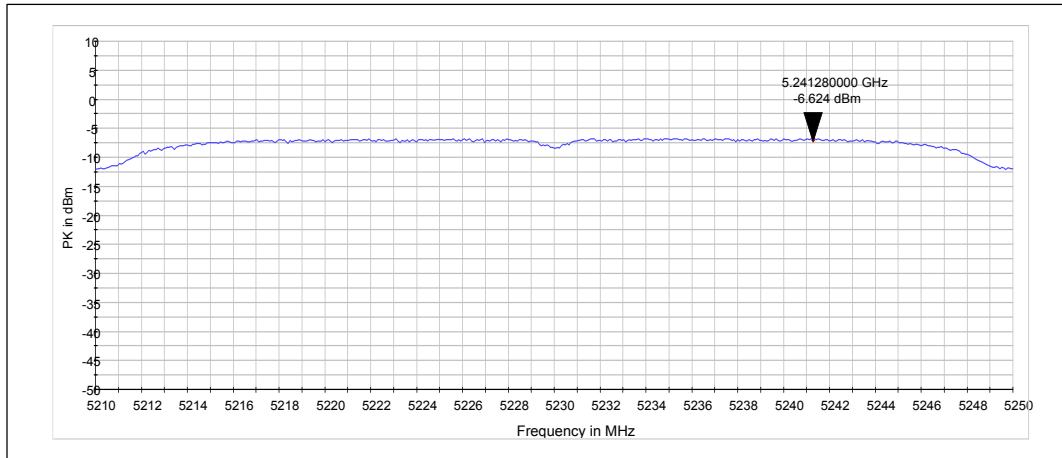
RMS detector (RBW: 1 MHz, VBW: 3 MHz, Video averaging)

Channel / f_c [MHz]	P [dBm]	Result
36+40 / 5190	-6.51	PASSED
44+48 / 5230	-6.62	PASSED
52+56 / 5270	-6.52	PASSED
60+64 / 5310	-6.77	PASSED
100+104 / 5510	-6.81	PASSED
108+112 / 5550	-6.95	PASSED
132+136 / 5670	-6.92	PASSED

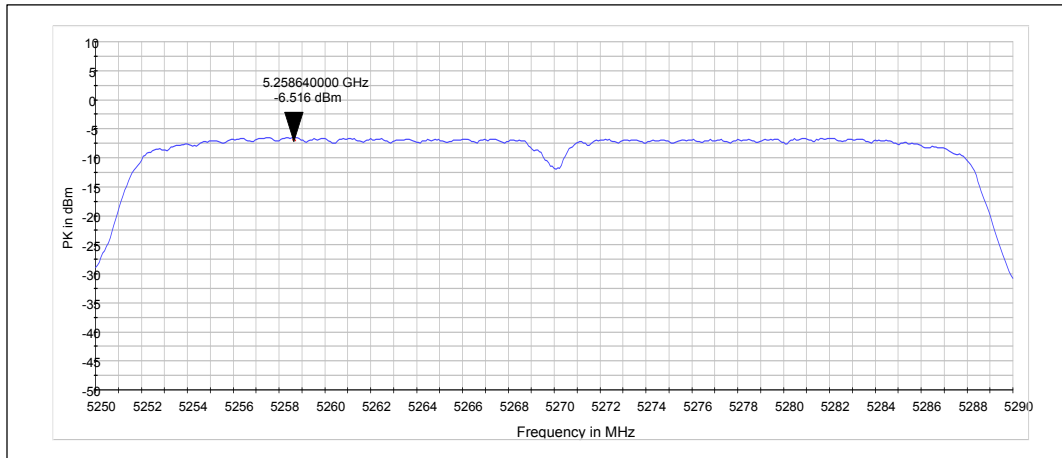
Channel 36+40 / 5190MHz



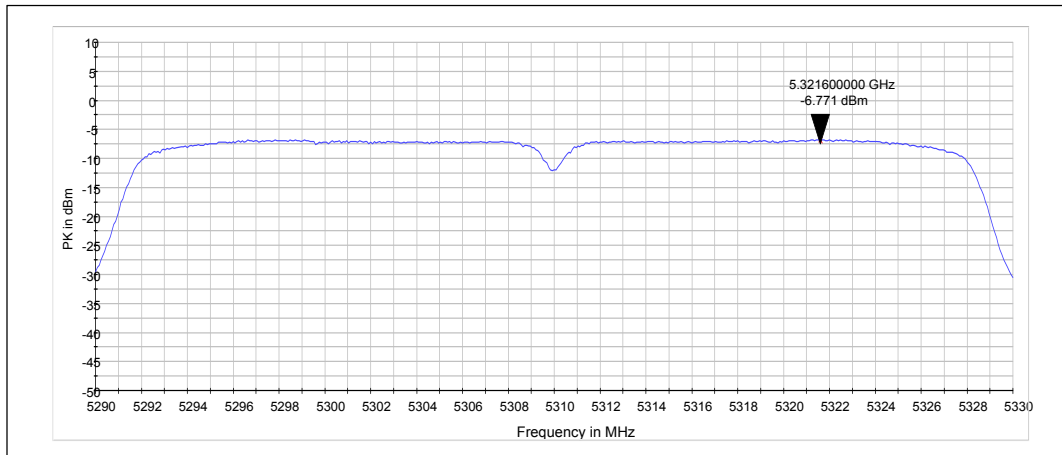
Channel 44+48 / 5230MHz



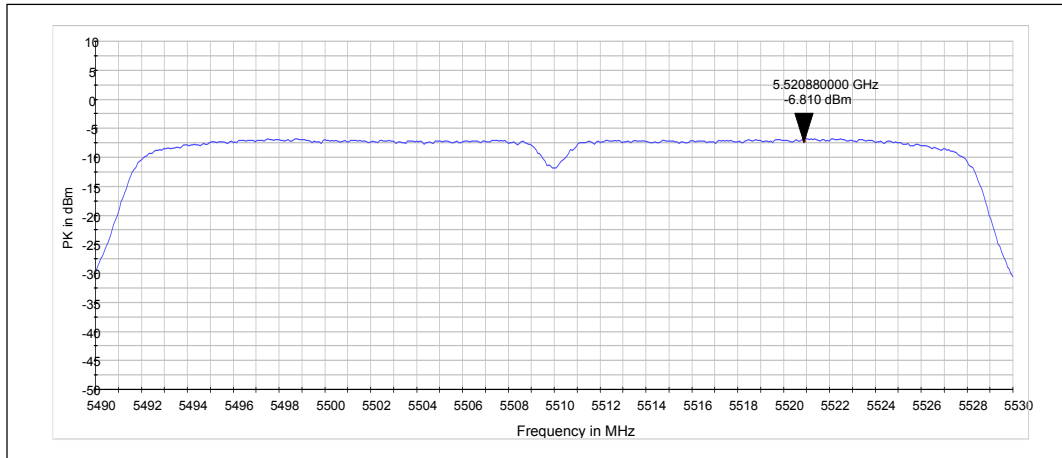
Channel 52+56 / 5270MHz



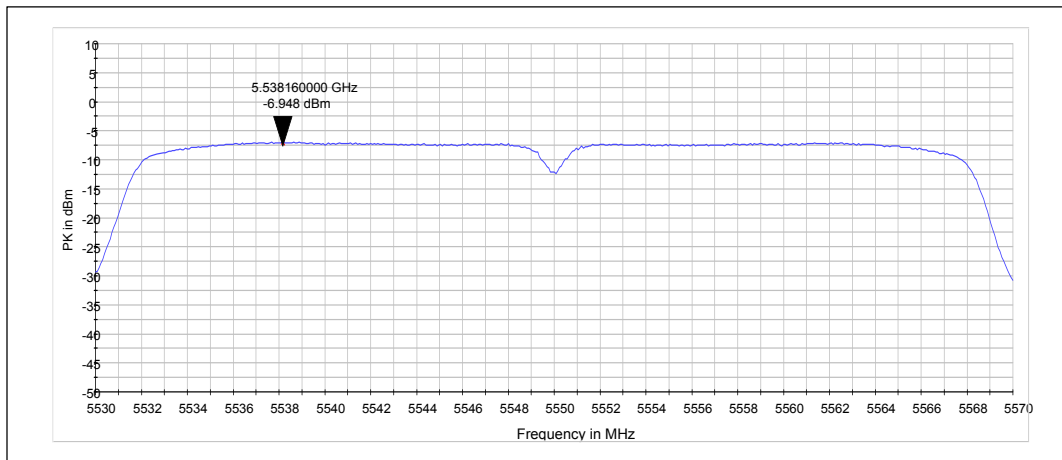
Channel 60+64 / 5310MHz



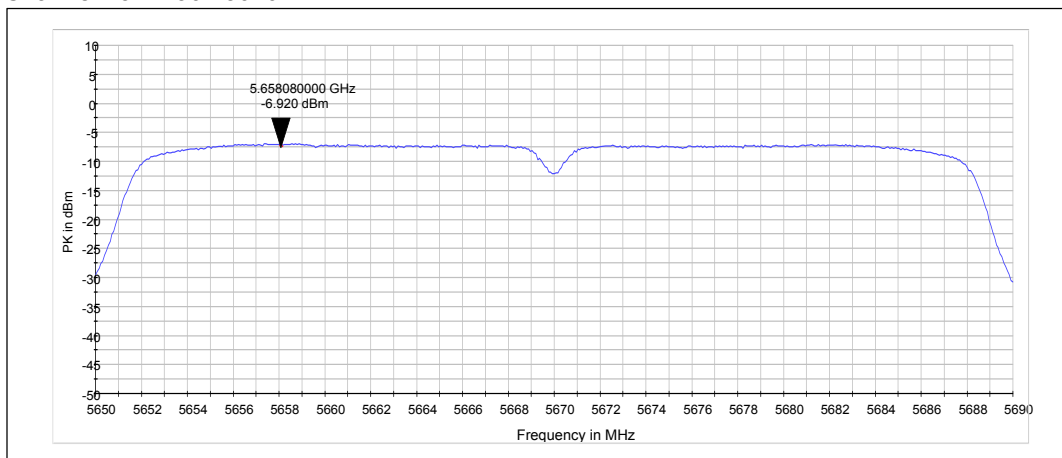
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



Channel 132+136 / 5670MHz

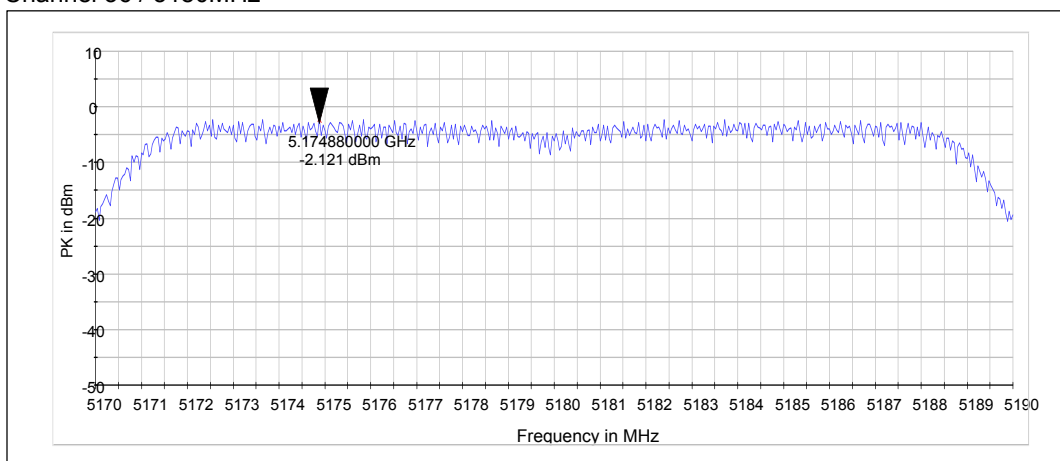


7.3.3 n-mode, 20 MHz CBW mode, 64-QAM modulation, 52.0 / 57.8 Mbps data rate

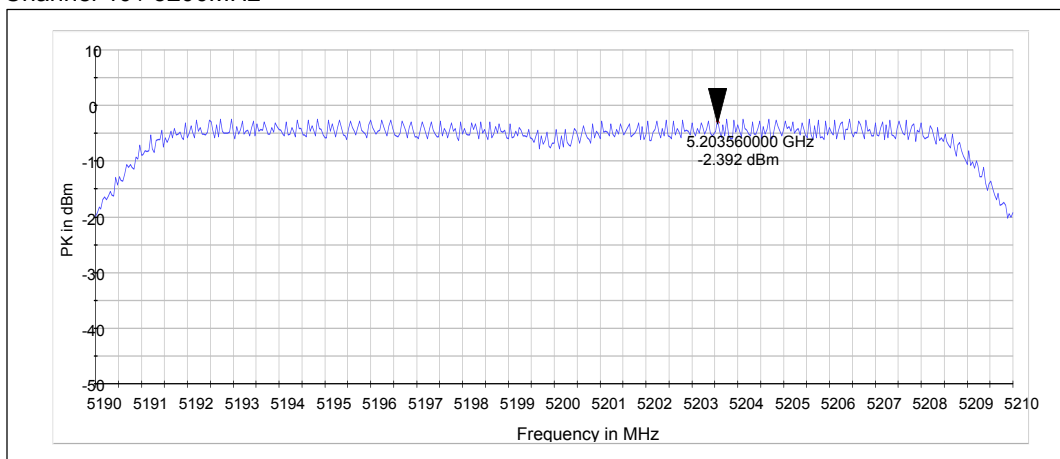
RMS detector (RBW: 1 MHz, VBW: 3 MHz, Video averaging)

Channel / f_c [MHz]	P [dBm]	Result
36 / 5180	-2.12	PASSED
40 / 5200	-2.39	PASSED
48 / 5240	-2.24	PASSED
52 / 5260	-2.14	PASSED
60 / 5300	-2.43	PASSED
64 / 5320	-3.28	PASSED
100 / 5500	-2.65	PASSED
116 / 5580	-2.83	PASSED
140 / 5700	-2.53	PASSED

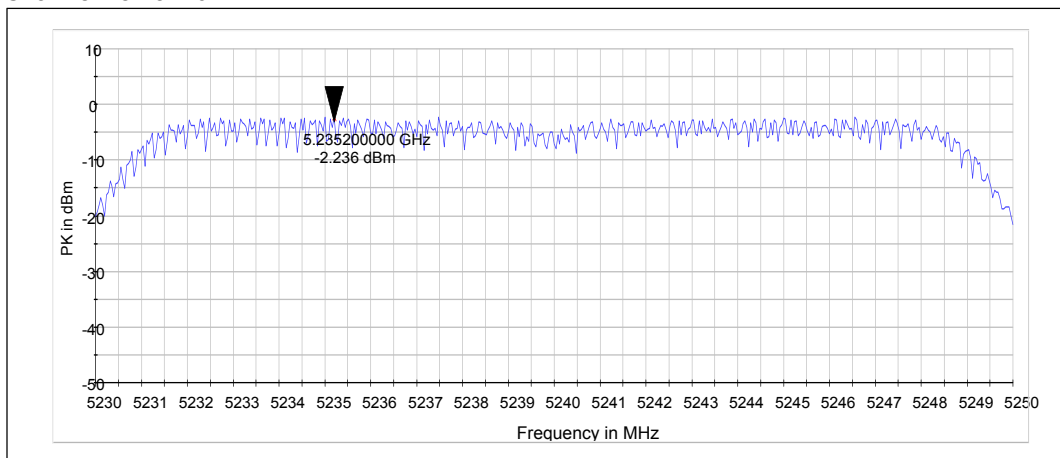
Channel 36 / 5180MHz



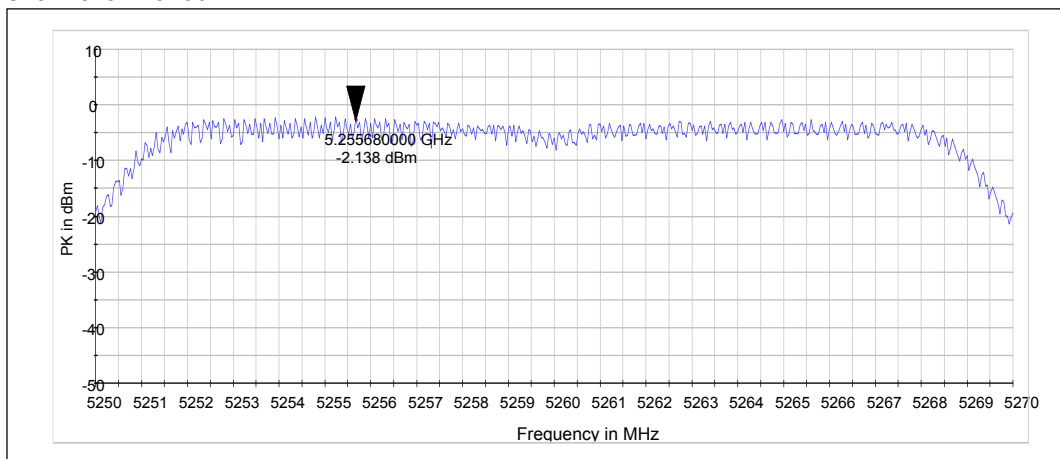
Channel 40 / 5200MHz



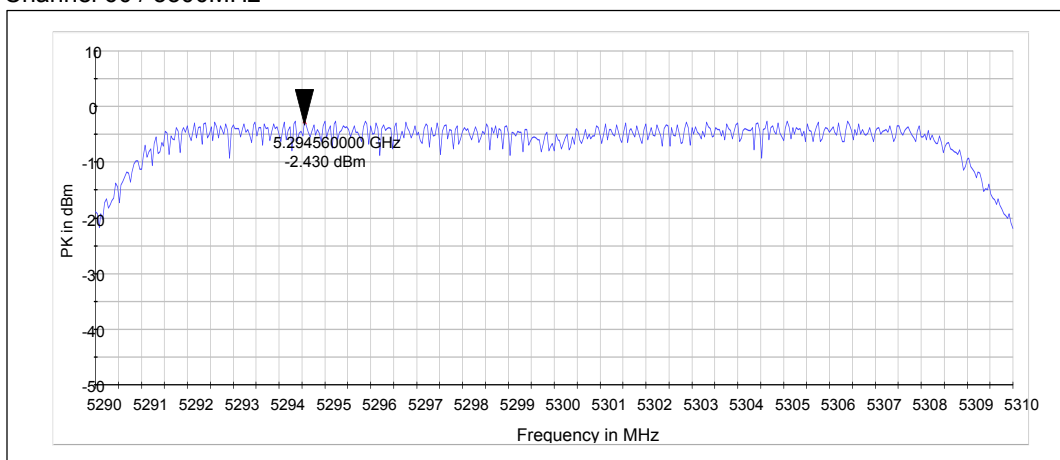
Channel 48 / 5240MHz



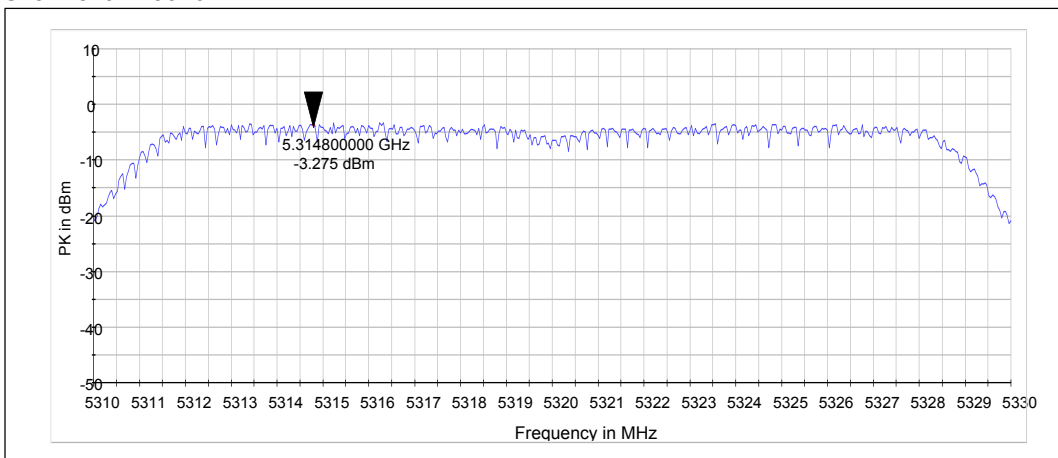
Channel 52 / 5260MHz



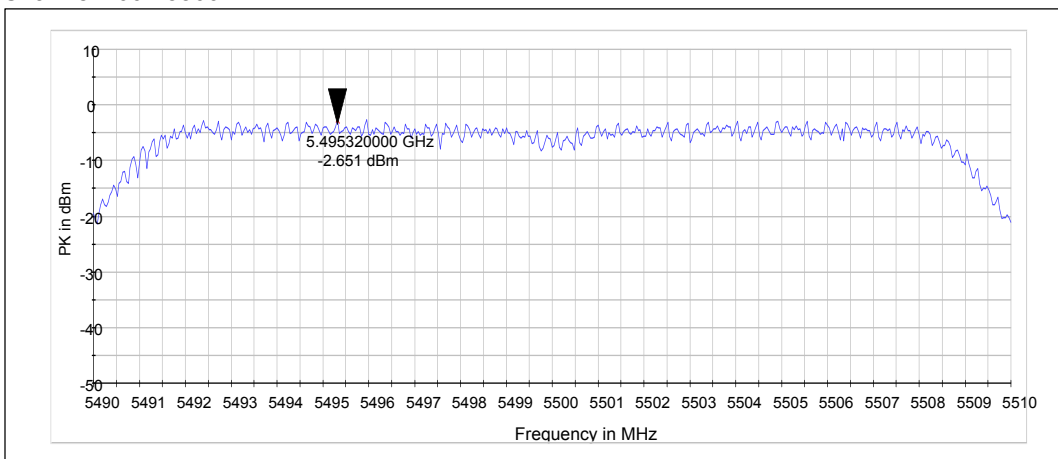
Channel 60 / 5300MHz



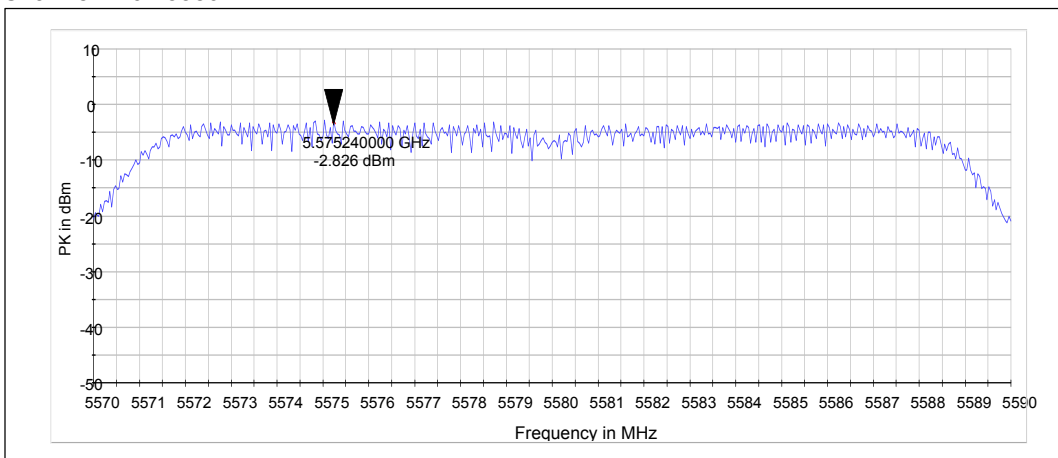
Channel 64 / 5320MHz



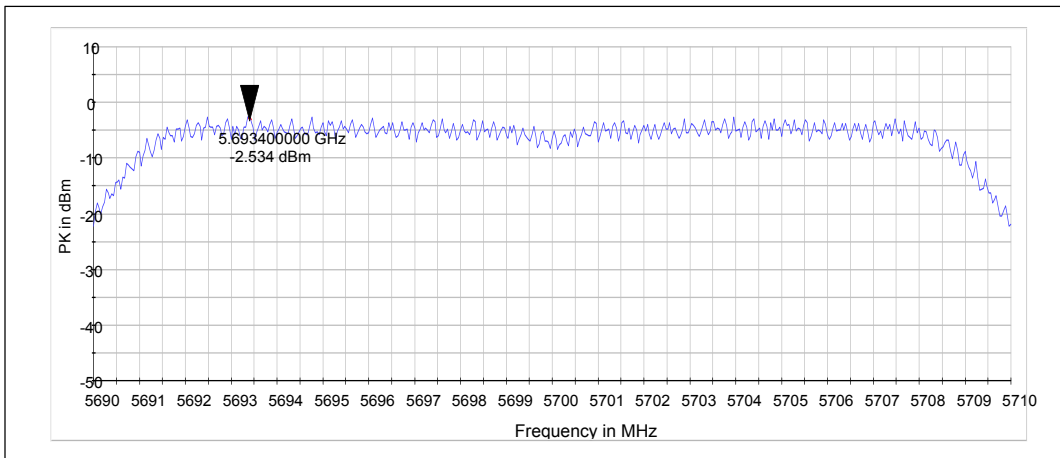
Channel 100 / 5500MHz



Channel 116 / 5580MHz



Channel 140 / 5700MHz

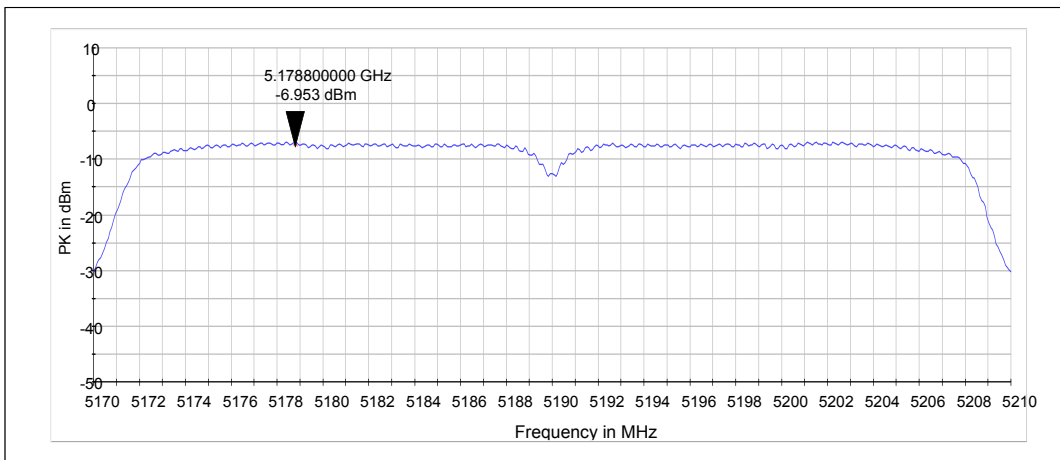


7.3.4 n-mode, 40 MHz CBW mode, 16-QAM modulation, 54.0 / 60.0 Mbps data rate

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

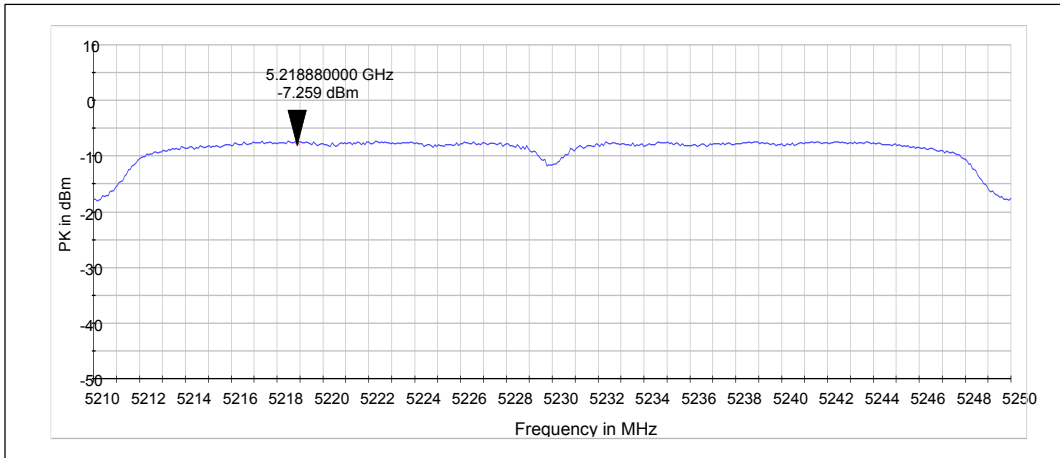
Channel / f_c [MHz]	P [dBm]	Result
36+40 / 5190	-6.95	PASSED
44+48 / 5230	-7.26	PASSED
52+56 / 5270	-7.09	PASSED
60+64 / 5310	-7.28	PASSED
100+104 / 5510	-7.25	PASSED
108+112 / 5550	-7.72	PASSED
132+136 / 5670	-7.48	PASSED

Channel 36+40 / 5190MHz

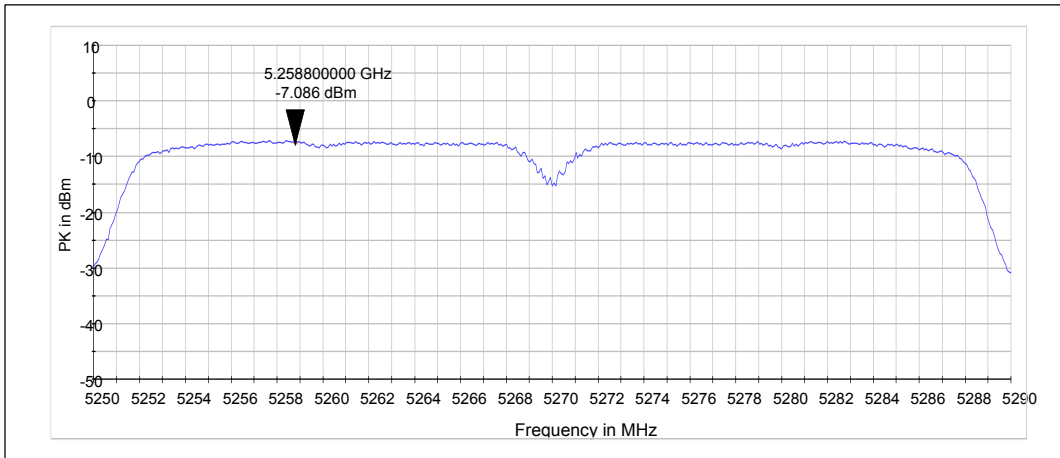


Channel

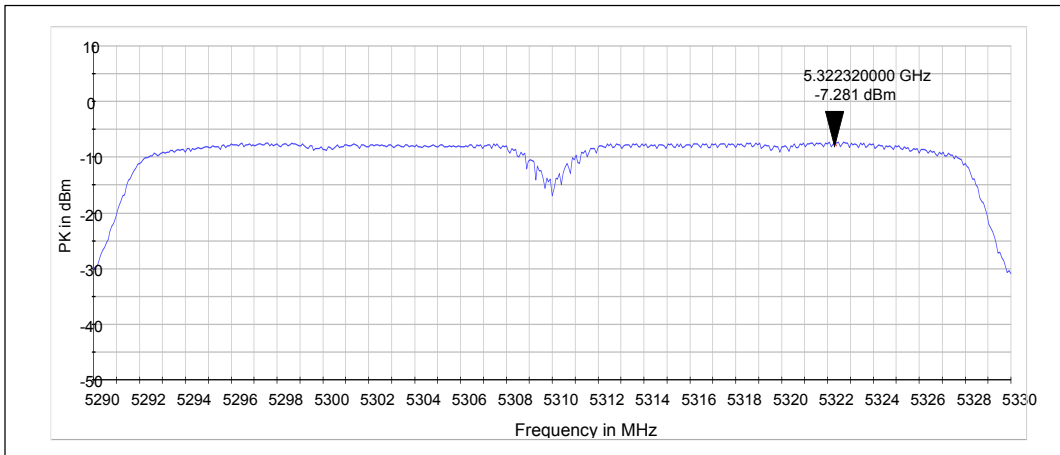
44+48 / 5230MHz



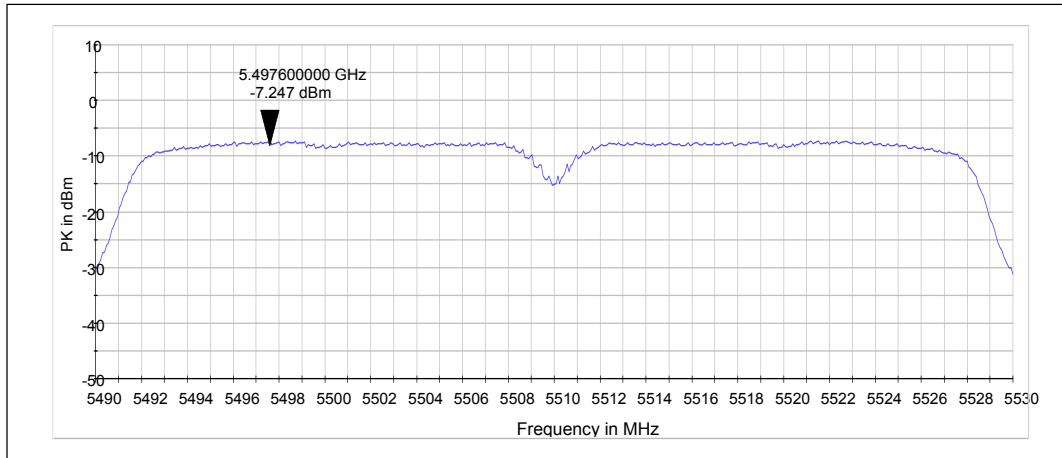
Channel 52+56 / 5270MHz



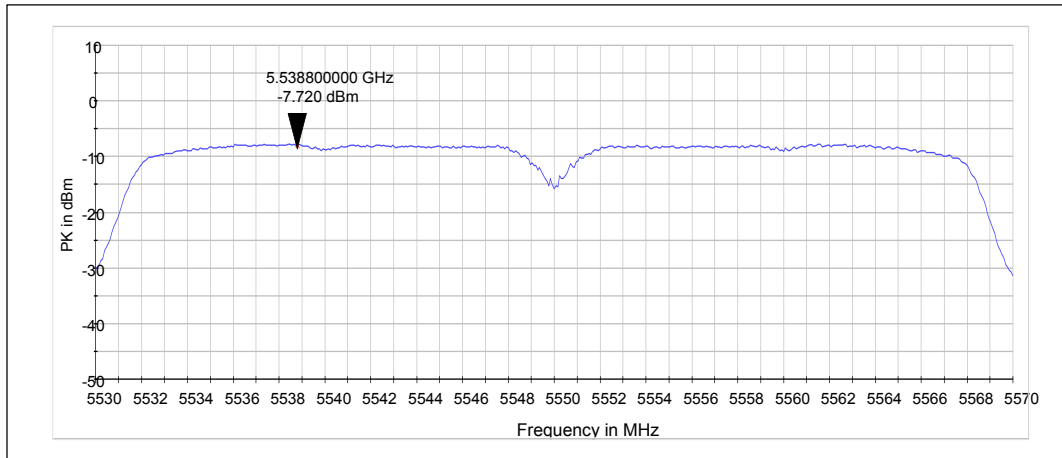
Channel 60+64 / 5310MHz



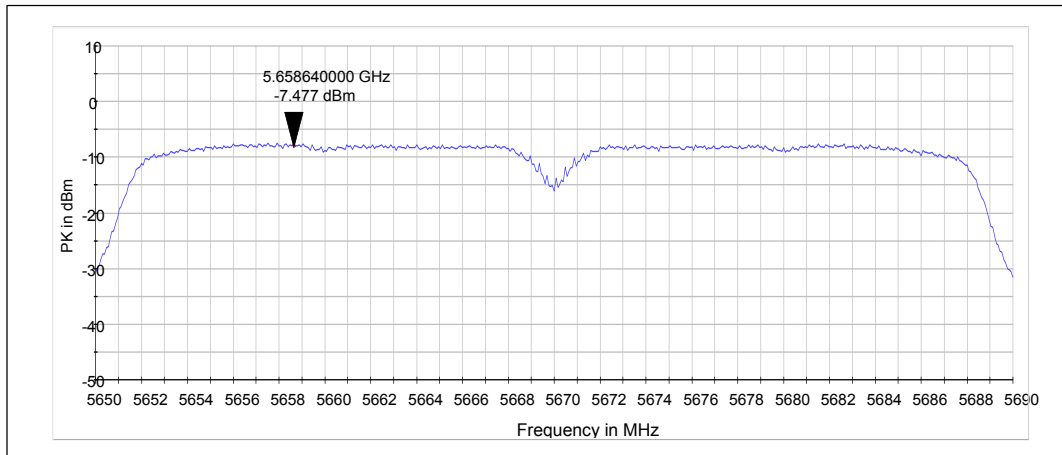
Channel 100+104 / 5510MHz



Channel 108+112 / 5550MHz



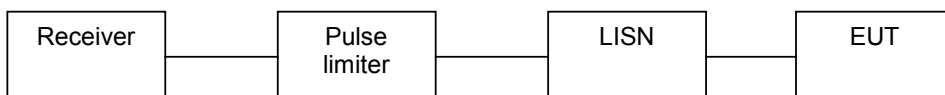
Channel 132+136 / 5670MHz



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

EUT with DUT number	RM-878, DUT 16639
Accessories with DUT numbers	BP-4W, DUT 16640
Operation Voltage [V] / [Hz]	Nominal
Results	PASSED
Remarks	-
Temp [°C] / Humidity [%RH] / Air Pressure [kPa]	21 / 41 / 101
Date of measurements	21-Sep-2012
Measured by	Tomi Lipponen

8.1. Test Setup



8.2. Test method and limit

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.

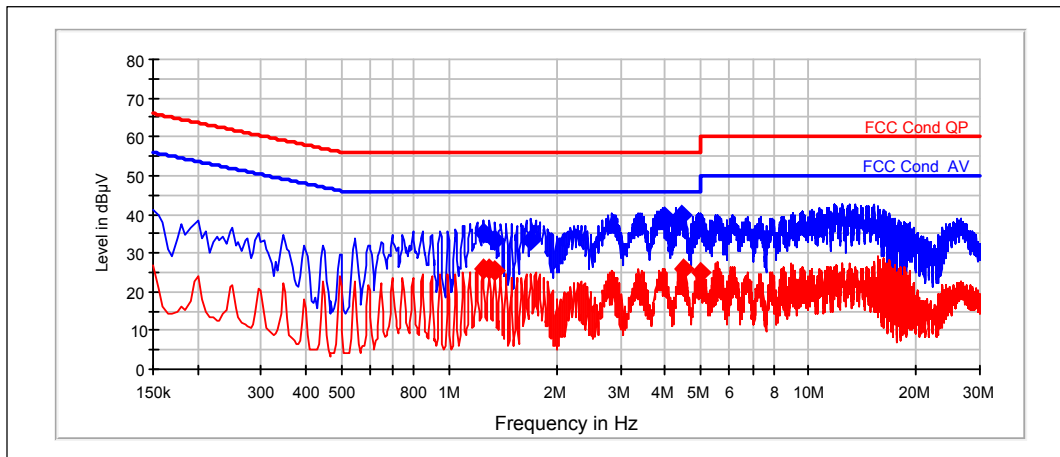
CISPR 22 Class B limits

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

8.3. 5 GHz RLAN Test results

8.3.1 OFDM mode, BPSK modulation, 9 Mbps data rate

Channel 116 / 5580 MHz



QuasiPeak (RBW: 9 kHz)

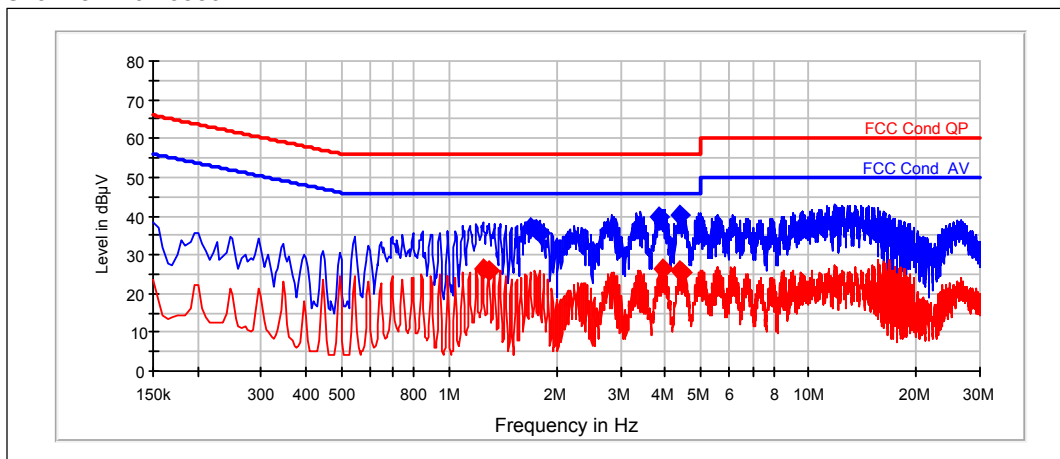
Frequency [MHz]	U [dBμV]	Line	Result
1.245	35.07	L1	PASSED
1.345	33.09	L1	PASSED
1.695	33.48	L1	PASSED
3.96	39.29	L1	PASSED
4.275	37.72	L1	PASSED
4.42	39.59	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
1.24	26.01	L1	PASSED
1.29	25.73	L1	PASSED
1.34	25.34	L1	PASSED
4.465	25.7	L1	PASSED
5.015	24.89	L1	PASSED

8.3.2 n-mode, 20 MHz CBW mode, 64-QAM modulation, 52.0 / 57.8 Mbps data rate

Channel 116 / 5580 MHz



QuasiPeak (RBW: 9 kHz)

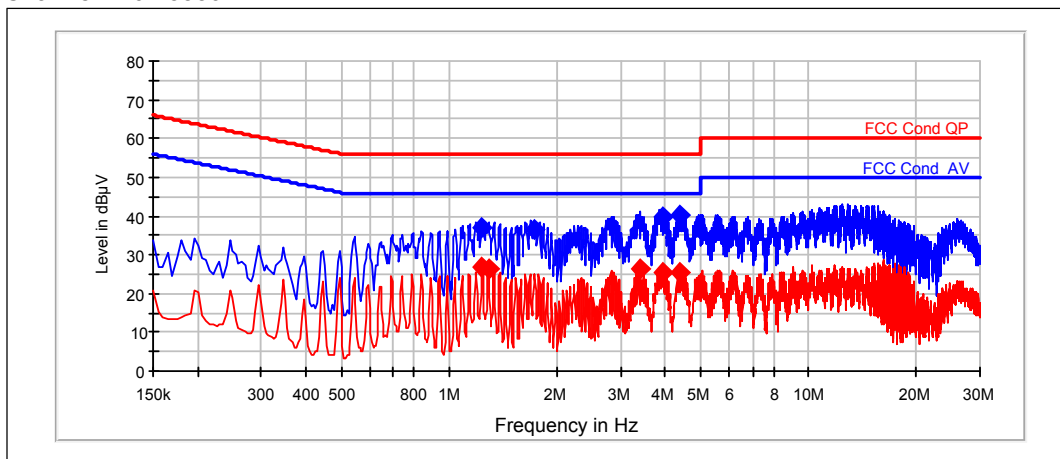
Frequency [MHz]	U [dBμV]	Line	Result
1.685	36.82	L1	PASSED
1.74	36.36	L1	PASSED
1.79	35.77	L1	PASSED
3.86	39.6	L1	PASSED
4.41	40.03	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
1.24	26.26	L1	PASSED
1.29	25.72	L1	PASSED
3.91	26.26	L1	PASSED
4.41	25.95	L1	PASSED
4.46	25.48	L1	PASSED

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

Channel 110 / 5550 MHz



QuasiPeak (RBW: 9 kHz)

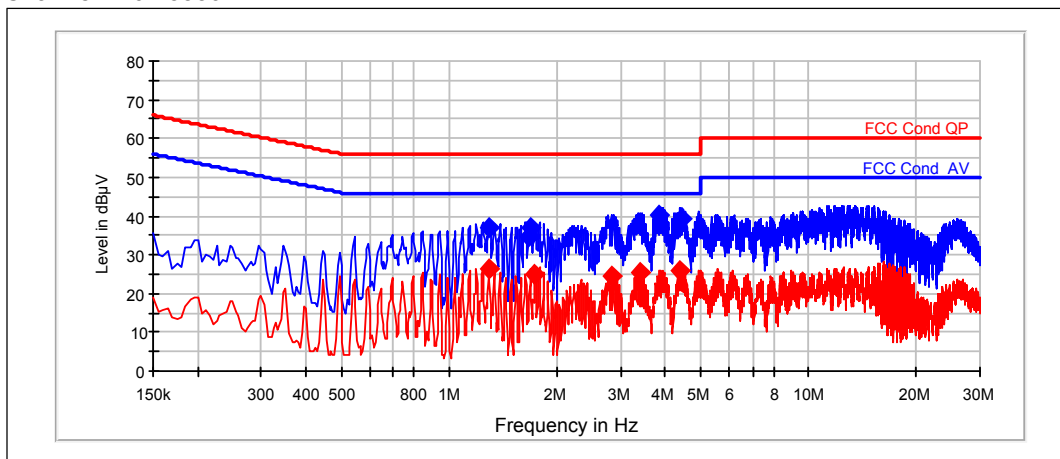
Frequency [MHz]	U [dBμV]	Line	Result
1.235	36.77	L1	PASSED
1.73	36.38	L1	PASSED
3.915	40	L1	PASSED
4.41	40.27	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
1.235	26.63	L1	PASSED
1.285	26.41	L1	PASSED
3.415	26.35	L1	PASSED
3.915	25.42	L1	PASSED
4.41	25.65	L1	PASSED

8.3.4 n-mode, 40 MHz CBW mode, 16-QAM modulation, 54.0 / 60.0 Mbps data rate

Channel 110 / 5550 MHz



QuasiPeak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
1.29	37.03	L1	PASSED
1.67	34.59	L1	PASSED
1.685	36.97	L1	PASSED
3.86	40.13	L1	PASSED
4.42	39.23	L1	PASSED

Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
1.29	26.25	L1	PASSED
1.735	25.07	L1	PASSED
2.82	24.62	L1	PASSED
3.415	25.63	L1	PASSED
4.41	25.96	L1	PASSED

9. Test Equipment

9.1. Conducted measurements

Eq. No	Equipment	Type	Manufacturer	Used in
6038	Data Logger	Testo 580	Testo	-
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	-
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	-
2389	Signal Generator	SMJ 100A	R&S	-
6009	GPS Antenna	SA-700	Chronos	-
6010	GPS Network amplifier	NLA20FPDC	GPS Networking, Inc	-
6011	GPS signal Splitter	LDCBS1x4	GPS Networking, Inc	-
6015	Receiver	ESI	R&S	-
2059	V-network	ESH3-Z6	R&S	-
6044	V-network	ESH3-Z6	R&S	-
1759	LISN 50 µH	ESH3-Z5	R&S	-
2390	Directional Coupler	DC2600	AR	-
1916	Communication Tester	CMTA84	R&S	-
6012	CDN	CDN USB/c	Teseq	-
2388	Bluetooth Tester	CBT	R&S	-
6046	Attenuator 10dB	8493C	Agilent	-
6047	Attenuator 20dB	8493C	Agilent	-
6036	Data Logger	175-H2	Testo	-
6045	Power Splitter	11667B	Agilent	-
6039	USB Interface	5541765	Testo	-
10479	Communication Tester	CMW500	R&S	-
6094	Communication Tester	CMW500	R&S	-
6096	EMC Analyzer	E7405A	HP	-
6098	Signal Generator	8648C	Agilent	-
6103	Bluetooth tester	CBT	R&S	-
6113	Signal Generator	SMF100A	R&S	-
6120	Thermal Chamber	WT 20/40	Weiss	-
6121	Power Splitter	HP11667B	Agilent	-
6122	Power Splitter	HP11667B	Agilent	-
6134	Attenuator 10dB	BW-S10-2W263+	Mini-Circuits	-
6136	Attenuator 20dB	BW-S20-2W263+	Mini-Circuits	-
2359	Temperature Test Chamber	VT4002	Vötsch	-
2347	Communication Tester	CMU200	R&S	-
2180	Communication Tester	CMU200	R&S	-
2156	Communication Tester	CMU200	R&S	-
1999	Receiver	ESIB26	R&S	-
2352	Spectrum Analyzer	FSP-30	R&S	-
2097	Pulse Limiter	ESH3-Z2	R&S	-
2039	Power Supply	PL330QMD	Thurlby	-
1992	Signal Generator	83630B	Agilent	-
2206	Signal Generator	SMX	R&S	-

9.2. Radiated measurements

Eq. No	Equipment	Type	Manufacturer	Used in
2391	Band Reject Filter	WRCG1729.4/1735.4-1722.4/1742.4-40/6SS	Wainwright	27
6038	Data Logger	Testo 580	Testo	-
6014	Substitute Calibration Cable	Sucoflex 104PB	Suhner	-
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	-
-	BT / WLAN Antenna	SPA 2400/75/9/0/V	Huber-Suhner	-
2389	Signal Generator	SMJ 100A	R&S	-
6009	GPS Antenna	SA-700	Chronos	-

Eq. No	Equipment	Type	Manufacturer	Used in
6010	GPS Network amplifier	NLA20FPDC	GPS Networking, Inc	-
6011	GPS signal Splitter	LDCBS1x4	GPS Networking, Inc	-
1988	Antenna	HL562	R&S	-
-	RF immunity / Emission Software	EMC32	R&S	-
1917	Communication Tester	CMTA84	R&S	-
2388	Bluetooth Tester	CBT	R&S	-
6037	Data Logger	175-H2	Testo	-
6039	USB Interface	5541765	Testo	-
6087	Antenna	BBHA 9120D	Scharzbeck	-
6088	Antenna	VUBA 9117	Scharzbeck	-
6089	Antenna	HFH2-Z2	R&S	-
10479	Communication Tester	CMW500	R&S	-
6094	Communication Tester	CMW500	R&S	-
6103	Bluetooth tester	CBT	R&S	-
6113	Signal Generator	SMF 100A	R&S	-
6115	Open switch and control unit	OSP 130	R&S	-
6116	Open switch and control unit	OSP 150	R&S	-
6130	Notch Filter	WRCD1880-1.1.25/50-10SS	Wainwright	-
6131	Notch Filter	WRCT902.4-0.4/40-8SS	Wainwright	-
6135	Notch Filter	WRCJV2531/2539-2523/2547-60/12SS	Wainwright	-
2140	Antenna	EMCO93110B	EMCO	-
2142	Antenna	3146	EMCO	-
2357	Band Reject Filter	WRCG2400/2483-2390/2493-35/10SS	Wainwright	-
2364	Band Reject Filter	WRCG1877/1883 - 1870/1890-40/6SS	Wainwright	24
2043	Band Reject Filter	WRCA824/849-0,2-6SS	Wainwright	22
2347	Communication Tester	CMU200	R&S	-
2180	Communication Tester	CMU200	R&S	-
2156	Communication Tester	CMU200	R&S	-
2176	CDN	CDN 801-M3	Lüthi	-
2027	CDN	M2 (modified) DC1	MEB	-
2028	CDN	M3 (modified) DC2	MEB	-
1984	Antenna	BBHA 9120 D	Schwarzbeck	-
6017	Antenna	SBA 9113	Schwarzbeck	-
2009	Signal Generator	SMP 22	R&S	-
2029	Power Supply	PL330	Thurlby	-
2361	Anechoic Chamber	3 m Semi / Full Anechoic Chamber	Euroshield	-
2353	Receiver	ESIB26	R&S	-
2135	CDN	CDN 801-M3	Lüthi	-