



SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
Ph: 886-3-327-3456 / FAX: 886-3-327-0973 / www.sporton.com.tw

FCC RADIO TEST REPORT

Applicant's company	Broadcom Corporation
Applicant Address	190 Mathilda Place Sunnyvale CA 94086 U.S.A.
FCC ID	QDS-BRCM1085
Manufacturer's company	Broadcom Corporation
Manufacturer Address	190 Mathilda Place Sunnyvale CA 94086 U.S.A.

Product Name	Broadcom 802.11a/b/g/n/ac WLAN + Bluetooth PCI-E NGFF 2230 Card
Brand Name	Broadcom
Model Name	BCM94356Z
Part No.	BCM94356Z, BCM94356ZAE
Test Rule	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz
Received Date	Jul. 31, 2014
Final Test Date	May 15, 2015
Submission Type	Class II Change

Statement

Test result included in this report is for the IEEE 802.11n and IEEE 802.11b/g of the product.

The test result in this report refers exclusively to the presented test model / sample.

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The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.10-2009, 47 CFR FCC Part 15 Subpart C, KDB 558074 D01 v03r02 and KDB 662911 D01 v02r01.**

The test equipment used to perform the test is calibrated and traceable to NML/ROC.

Note: Using 1.5m table as an alternative was permitted by the FCC per TCBC conference call of Dec. 2, 2014.





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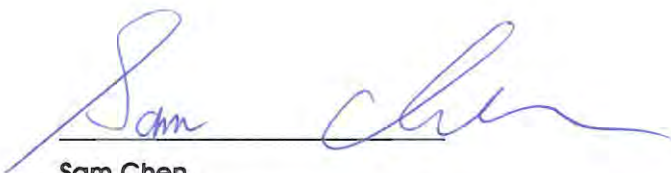
History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR473142-05AA	Rev. 01	Initial issue of report	Jun. 04, 2015

1. VERIFICATION OF COMPLIANCE

Product Name : Broadcom 802.11a/b/g/n/ac WLAN + Bluetooth PCI-E NGFF 2230 Card
Brand Name : Broadcom
Model Name : BCM94356Z
Part No. : BCM94356Z, BCM94356ZAE
Applicant : Broadcom Corporation
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jul. 31, 2014 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.



Sam Chen

SPORTON INTERNATIONAL INC.

2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Rule Section	Description of Test	Result	Under Limit
4.1	15.247(d)	Radiated Emissions	Complies	3.00 dB
4.2	15.247(d)	Band Edge Emissions	Complies	0.09 dB
4.3	15.203	Antenna Requirements	Complies	-

3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Product Type	WLAN (2TX, 2RX)
Radio Type	Intentional Transceiver
Power Type	From host system
Modulation	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: see the below table
Data Modulation	IEEE 802.11b: DSSS (BPSK / QPSK / CCK) IEEE 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	IEEE 802.11b: DSSS (1/ 2/ 5.5/11) IEEE 802.11g: OFDM (6/9/12/18/24/36/48/54) IEEE 802.11n: see the below table
Frequency Range	2400 ~ 2483.5MHz
Channel Number	13 for 20MHz bandwidth ; 9 for 40MHz bandwidth
Maximum Conducted Output Power	IEEE 802.11b: 23.55 dBm IEEE 802.11g: 22.25 dBm IEEE 802.11n MCS0 (HT20): 22.19 dBm IEEE 802.11n MCS0 (HT40): 15.91 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

Items	Description	
Beamforming Function	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming
STBC Function	<input checked="" type="checkbox"/> With STBC	<input type="checkbox"/> Without STBC

Note: 1. The EUT has beamforming function for 802.11n/ac in 5GHz band 1~4.

2. The EUT has STBC function for 802.11n/ac in 5GHz band 1~4.

3. The MIMO transmission mode is correlated.

Antenna and Band width

Antenna	Two (TX)	
Band width Mode	20 MHz	40 MHz
IEEE 802.11b	V	X
IEEE 802.11g	V	X
IEEE 802.11n	V	V

IEEE 11n Spec.

Protocol	Number of Transmit Chains (NTX)	Data Rate / MCS
802.11n (HT20)	2	MCS 0-15
802.11n (HT40)	2	MCS 0-15

Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput).
Then EUT supports HT20 and HT40.

Note 2: Modulation modes consist of below configuration: HT20/HT40: IEEE 802.11n

3.2. Accessories

N/A

3.3. Table for Filed Antenna

Ant.	Brand Holder	Model No.	Antenna Type	Connector	Gain (dBi)				
					2.4G/ BT	5G B1	5G B2	5G B3	5G B4
1	INPAQ TECHNOLOGY CO., LTD.	DAM-I6-H-DB-800-10-17	Dipole antenna	SMA RP PLUG	1.29	1.94	1.94	-0.49	-0.93

Note:

For 2.4 GHz WLAN function (2TX/2RX):

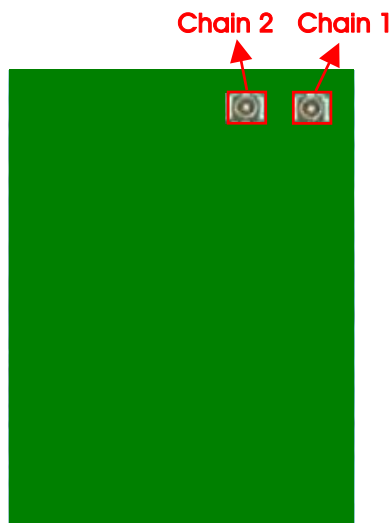
Chain 1 and Chain 2 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Only Chain 1 could transmit/receive simultaneously.

For 5 GHz WLAN function (2TX/2RX):

Chain 1 and Chain 2 could transmit/receive simultaneously.



3.4. Table for Carrier Frequencies

There are two bandwidth systems.

For 20MHz bandwidth systems, use Channel 1~Channel 13.

For 40MHz bandwidth systems, use Channel 3~Channel 11.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400~2483.5MHz	1	2412 MHz	8	2447 MHz
	2	2417 MHz	9	2452 MHz
	3	2422 MHz	10	2457 MHz
	4	2427 MHz	11	2462 MHz
	5	2432 MHz	12	2467 MHz
	6	2437 MHz	13	2472 MHz
	7	2442 MHz	-	-

3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	Chain
Radiated Emissions 9kHz~1GHz	Normal Link	-	-	-
Radiated Emissions 1GHz~10 th Harmonic	11b/CCK	1 Mbps	1/6/11/12/13	1+2
	11g/BPSK	6 Mbps	1/6/11/12/13	1+2
	11n HT20	MCS0	1/6/11/12/13	1+2
	11n HT40	MCS0	3/6/9/10/11	1+2
Band Edge Emissions	11b/CCK	1 Mbps	1/6/11/12/13	1+2
	11g/BPSK	6 Mbps	1/6/11/12/13	1+2
	11n HT20	MCS0	1/6/11/12/13	1+2
	11n HT40	MCS0	3/6/9/10/11	1+2

The following test modes were performed for all tests:

For Radiated Emission test below 1GHz:

According to original test report, the Radiated Emissions 9kHz~1GHz test was perform at its 3-axis (X-axis, Y-axis and Z-axis) and the worst-case was found at X-axis. Thus this test will follow this test mode.

Mode 1. 2.4GHz WLAN function + Bluetooth function

Mode 2. 5GHz WLAN function + Bluetooth function

Mode 1 is the worst case, so it was selected to record in this test report.

For Radiated Emission test above 1GHz:

According to original test report, the Radiated Emissions above 1GHz test was perform at its 3-axis (X-axis, Y-axis and Z-axis) and the worst-case was found at X-axis. Thus this test will follow this test mode.

Mode 1. CTX-EUT

For Co-location test:

Mode 1. 2.4GHz WLAN function + Bluetooth function

Mode 2. 5GHz WLAN function + Bluetooth function

3.6. Table for Testing Locations

Test Site Location				
Address:	No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.			
TEL:	886-3-656-9065			
FAX:	886-3-656-9085			
Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.
03CH01-CB	SAC	Hsin Chu	262045	IC 4086D

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC).

3.7. Table for Multiple Listing and Class II Change

The EUT has two part numbers which are identical to each other in all aspects except for the following table:

Model No.	Part No.	Description
BCM94356Z	BCM94356Z	The base pin between these two models is different.
	BCM94356ZAE	

From the above models, part number: BCM94356Z was selected as representative model for the test and its data was recorded in this report.

This product is an extension of original one reported under Sporton project number: FR473142AA and FR473142-03

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding a dipole antenna	1. Radiated Emissions Measurement 2. Emissions Measurement 3. Radiated Emission Co-location

Note: The above test items will be based on original output power to re-test.

3.8. Table for Supporting Units

For Test Site No: 03CH01-CB

For Radiated Emission test below 1GHz:

Support Unit	Brand	Model	FCC ID
Notebook*2	DELL	E4300	DoC
Wireless ac AP	Netgear	R6300V2	PY313200227
Mouse	Logitech	M-U0026	DoC
Earphone	SHYARO CHI	MIC-04	N/A
Test Fixture*2	Broadcom	BCM9MC2EC_1	N/A
Broadcom 802.11a/b/g/n/ac WLAN + Bluetooth PCI-E NGFF 2230 Card (Device)	Broadcom	BCM94356Z	QDS-BRCM1085

For Radiated Emission test above 1GHz:

Support Unit	Brand	Model	FCC ID
Notebook	DELL	E4300	DoC
Test Fixture	Broadcom	BCM9MC2EC_1	N/A

3.9. Table for Parameters of Test Software Setting

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters of IEEE 802.11n

Test Software Version	Manual Tool version: 2.0.2.1				
Frequency	2412 MHz	2437 MHz	2462 MHz	2467 MHz	2472 MHz
MCS0 HT20	57	77	53	45	45
Frequency	2422 MHz	2437 MHz	2452 MHz	2457 MHz	2462 MHz
MCS0 HT40	44	52	51	46	45

Power Parameters of IEEE 802.11b/g

Test Software Version	Manual Tool version: 2.0.2.1				
Frequency	2412 MHz	2437 MHz	2462 MHz	2467 MHz	2472 MHz
IEEE 802.11b	68	80	70	66	46
IEEE 802.11g	55	77	54	53	48

3.10. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.11. Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	1.92	2.01	95.52	0.20	0.52
802.11g	0.93	1.03	90.29	0.44	1.08
802.11n MCS0 HT20	12.44	13.04	95.40	0.20	0.08
802.11n MCS0 HT40	2.06	2.16	95.37	0.21	0.49

3.12. Maximum Conducted Output Power for original report

Configuration IEEE 802.11n MCS0 HT20

Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Chain 1	Chain 2	Total		
1	2412 MHz	14.28	14.06	17.18	30.00	Complies
6	2437 MHz	19.34	19.01	22.19	30.00	Complies
11	2462 MHz	13.23	13.15	16.20	30.00	Complies
12	2467 MHz	11.45	11.12	14.30	30.00	Complies
13	2472 MHz	10.74	9.97	13.38	30.00	Complies

Configuration IEEE 802.11n MCS0 HT20 / Power table for SAR only

Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Chain 1	Chain 2	Total		
1	2412 MHz	14.28	14.06	17.18	30.00	Complies
6	2437 MHz	14.36	14.09	17.24	30.00	Complies
11	2462 MHz	13.23	13.15	16.20	30.00	Complies
12	2467 MHz	11.45	11.12	14.30	30.00	Complies

Configuration IEEE 802.11n MCS0 HT40

Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Chain 1	Chain 2	Total		
3	2422 MHz	10.94	10.53	13.75	30.00	Complies
6	2437 MHz	12.91	12.88	15.91	30.00	Complies
9	2452 MHz	12.67	12.62	15.66	30.00	Complies
10	2457 MHz	11.55	11.21	14.39	30.00	Complies
11	2462 MHz	10.51	9.48	13.04	30.00	Complies

Configuration IEEE 802.11n MCS0 HT40 / Power table for SAR only

Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Chain 1	Chain 2	Total		
3	2422 MHz	10.94	10.53	13.75	30.00	Complies
6	2437 MHz	12.91	12.88	15.91	30.00	Complies
9	2452 MHz	12.67	12.62	15.66	30.00	Complies
10	2457 MHz	11.55	11.21	14.39	30.00	Complies

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Chain 1	Chain 2	Total		
1	2412 MHz	17.31	17.18	20.26	30.00	Complies
6	2437 MHz	20.45	20.63	23.55	30.00	Complies
11	2462 MHz	18.05	17.75	20.91	30.00	Complies
12	2467 MHz	16.89	16.74	19.83	30.00	Complies
13	2472 MHz	11.46	10.81	14.16	30.00	Complies

Configuration IEEE 802.11b / Power table for SAR only

Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Chain 1	Chain 2	Total		
1	2412 MHz	14.28	14.03	17.17	30.00	Complies
6	2437 MHz	14.32	14.06	17.20	30.00	Complies
11	2462 MHz	14.29	14.07	17.19	30.00	Complies
12	2467 MHz	14.31	14.02	17.18	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Chain 1	Chain 2	Total		
1	2412 MHz	13.87	13.76	16.83	30.00	Complies
6	2437 MHz	19.41	19.07	22.25	30.00	Complies
11	2462 MHz	13.45	13.36	16.42	30.00	Complies
12	2467 MHz	13.23	13.25	16.25	30.00	Complies
13	2472 MHz	11.44	11.16	14.31	30.00	Complies

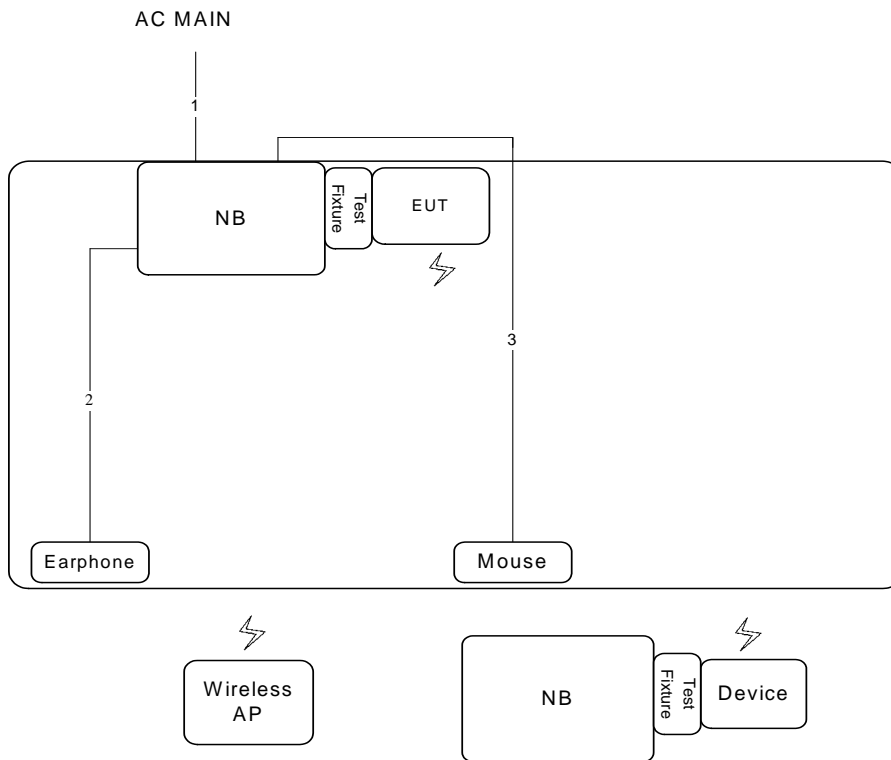
Configuration IEEE 802.11g / Power table for SAR only

Channel	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Chain 1	Chain 2	Total		
1	2412 MHz	13.87	13.76	16.83	30.00	Complies
6	2437 MHz	14.37	14.05	17.22	30.00	Complies
11	2462 MHz	13.45	13.36	16.42	30.00	Complies
12	2467 MHz	13.23	13.25	16.25	30.00	Complies

3.13. Test Configurations

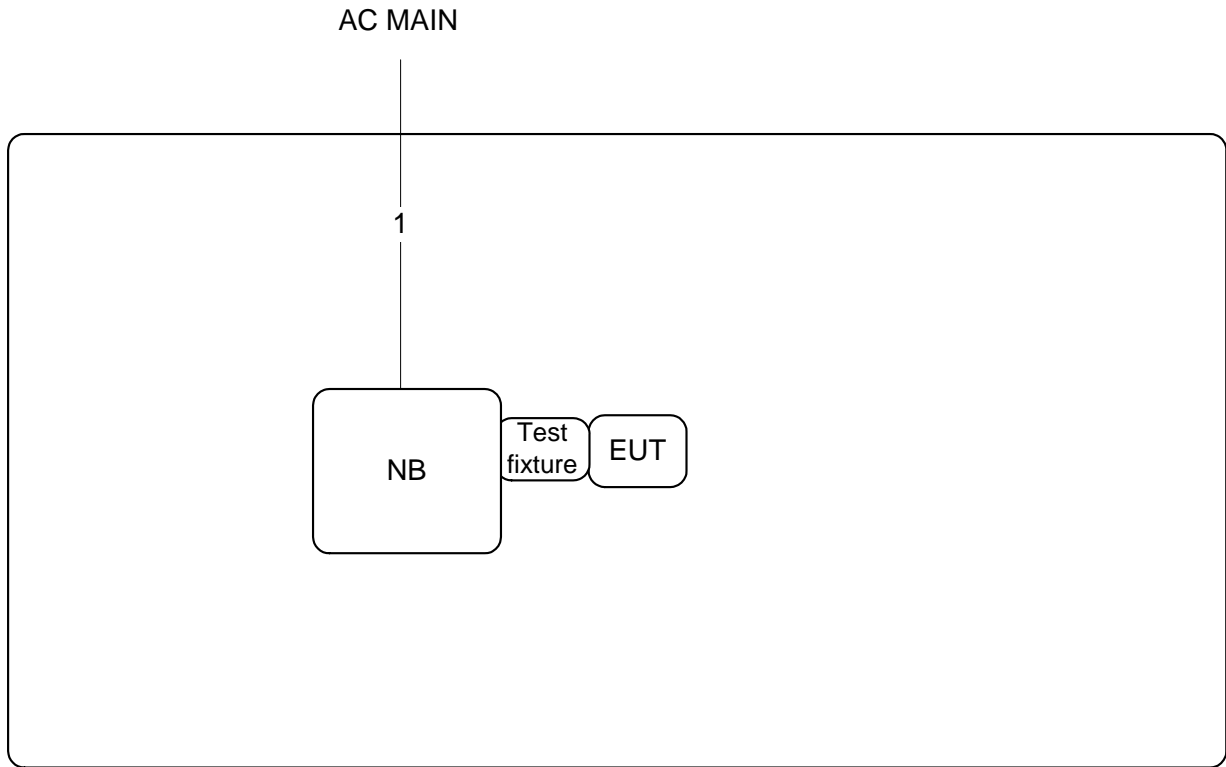
3.13.1. Radiation Emissions Test Configuration

Test Configuration: 30MHz~1GHz



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	Audio cable	No	1.1m
3	USB cable	Yes	1.8m

Test Configuration: above 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.8m

4. TEST RESULT

4.1. Radiated Emissions Measurement

4.1.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.1.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	100kHz / 300kHz for peak

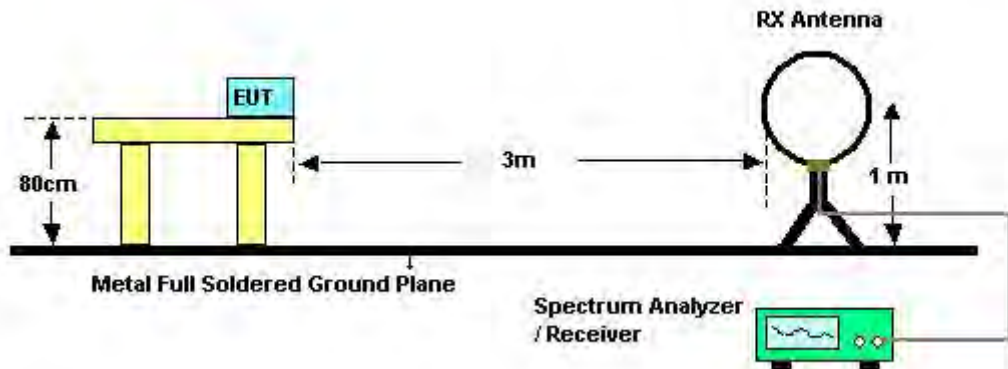
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

4.1.3. Test Procedures

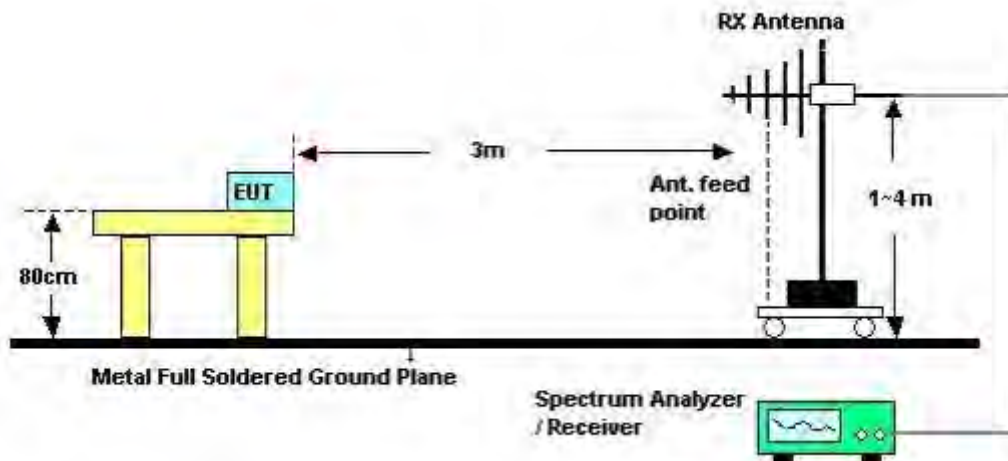
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.1.4. Test Setup Layout

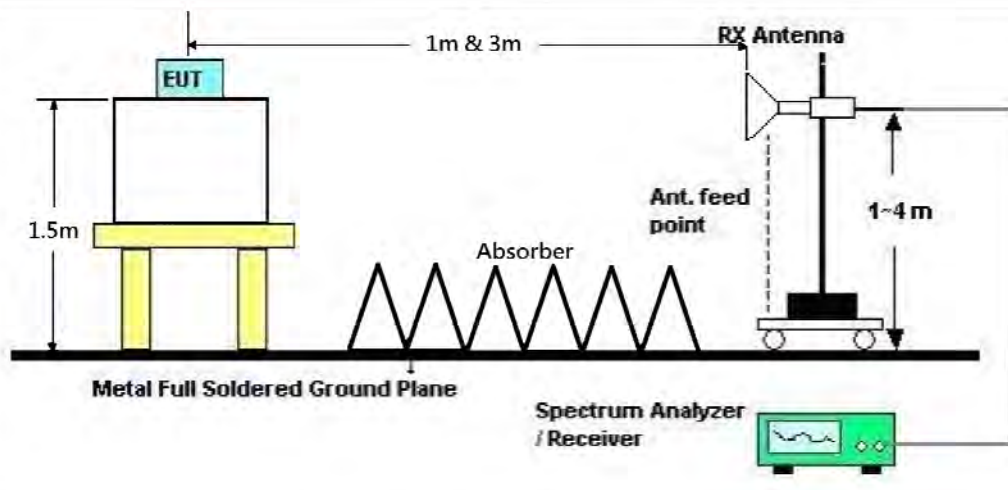
For Radiated Emissions: 9kHz ~30MHz



For Radiated Emissions: 30MHz~1GHz



For Radiated Emissions: Above 1GHz



4.1.5. Test Deviation

There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.1.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Test Date	May 14, 2015
Configurations	Normal Link	Test Mode	Mode 1

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

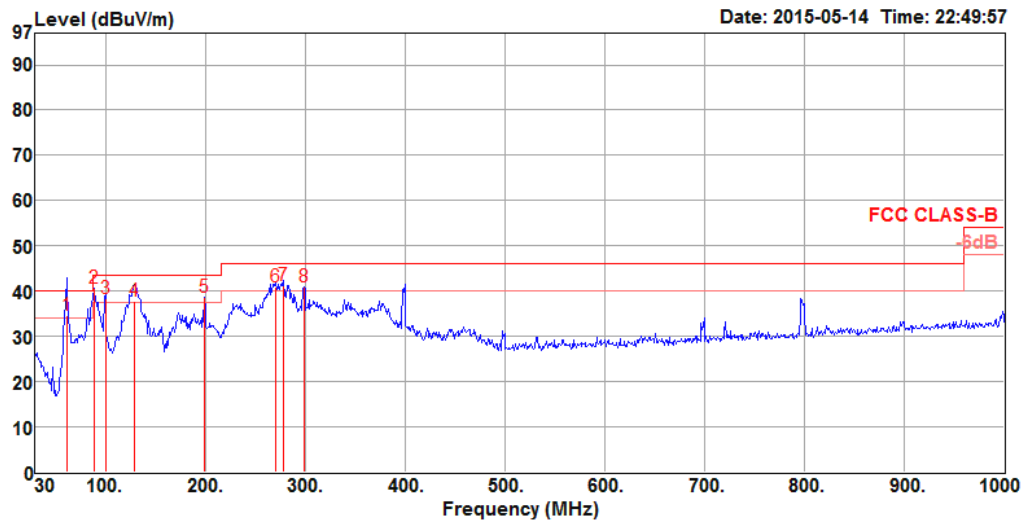
Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.1.8. Results of Radiated Emissions (30MHz~1GHz)

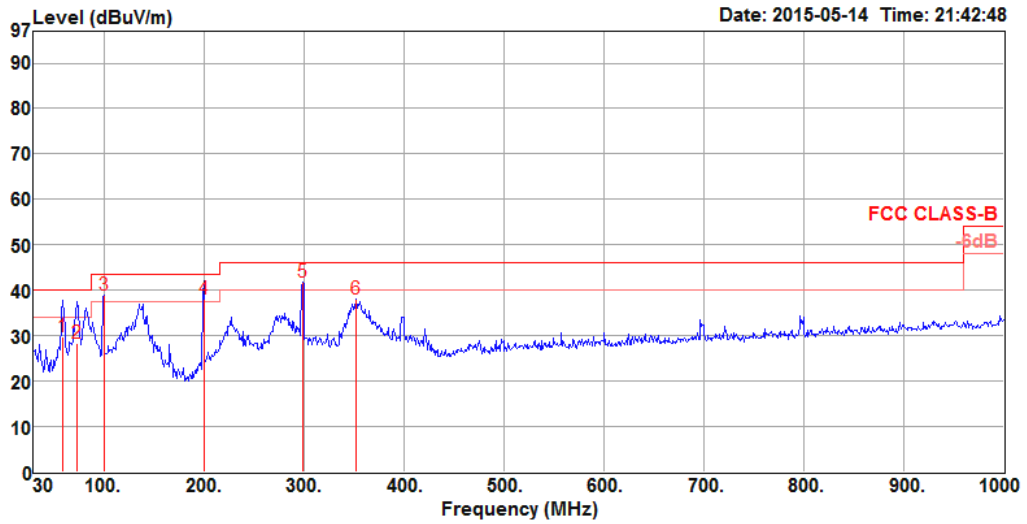
Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	Normal Link
Test Mode	Mode 1		

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna		T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	Pol/Phase	deg	cm	
1	61.04	34.69	40.00	-5.31	59.60	0.79	32.50	6.80	HORIZONTAL	46	300	QP
2	88.20	40.50	43.50	-3.00	63.06	0.94	32.43	8.93	HORIZONTAL	195	400	Peak
3	99.84	38.31	43.50	-5.19	58.73	0.98	32.47	11.07	HORIZONTAL	202	400	Peak
4	128.94	37.67	43.50	-5.83	56.34	1.15	32.43	12.61	HORIZONTAL	237	150	QP
5	198.78	38.50	43.50	-5.00	59.20	1.39	32.29	10.20	HORIZONTAL	178	150	Peak
6	270.56	40.80	46.00	-5.20	57.92	1.63	32.44	13.69	HORIZONTAL	137	125	Peak
7	278.32	41.22	46.00	-4.78	58.44	1.65	32.40	13.53	HORIZONTAL	276	125	Peak
8	298.69	40.97	46.00	-5.03	57.69	1.71	32.30	13.87	HORIZONTAL	336	125	Peak

Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna		T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	Pol/Phase	deg	cm	
1	59.10	29.91	40.00	-10.09	54.61	0.78	32.50	7.02	VERTICAL	124	400	QP
2	73.65	28.40	40.00	-11.60	52.85	0.87	32.41	7.09	VERTICAL	116	100	QP
3	99.84	38.80	43.50	-4.70	59.19	0.98	32.47	11.10	VERTICAL	92	300	Peak
4	199.75	38.05	43.50	-5.45	58.65	1.39	32.29	10.30	VERTICAL	69	200	Peak
5	298.69	41.88	46.00	-4.12	58.59	1.71	32.30	13.88	VERTICAL	192	150	Peak
6	352.04	38.06	46.00	-7.94	53.20	1.87	32.36	15.35	VERTICAL	4	200	Peak

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.1.9. Results for Radiated Emissions (1GHz~10th Harmonic)

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11b CH 1 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4817.78	46.97	74.00	-27.03	43.24	5.87	32.82	34.96	Peak	149	74	HORIZONTAL
2	4824.03	35.95	54.00	-18.05	32.22	5.87	32.82	34.96	Average	149	74	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4824.03	41.72	54.00	-12.28	37.99	5.87	32.82	34.96	Average	132	328	VERTICAL
2	4824.03	48.92	74.00	-25.08	45.19	5.87	32.82	34.96	Peak	132	328	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11b CH 6 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4873.97	36.55	54.00	-17.45	32.66	5.92	32.93	34.96	Average	171	122	HORIZONTAL
2	4873.97	47.55	74.00	-26.45	43.66	5.92	32.93	34.96	Peak	171	122	HORIZONTAL
3	7303.68	37.49	54.00	-16.51	28.61	7.13	36.97	35.22	Average	144	157	HORIZONTAL
4	7308.05	51.11	74.00	-22.89	42.23	7.13	36.97	35.22	Peak	144	157	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4874.06	48.58	74.00	-25.42	44.69	5.92	32.93	34.96	Peak	161	94	VERTICAL
2	4874.09	42.23	54.00	-11.77	38.34	5.92	32.93	34.96	Average	161	94	VERTICAL
3	7312.82	50.62	74.00	-23.38	41.75	7.13	36.97	35.23	Peak	139	188	VERTICAL
4	7314.94	37.33	54.00	-16.67	28.46	7.13	36.97	35.23	Average	139	188	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11b CH 11 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4926.29	36.09	54.00	-17.91	32.02	5.97	33.05	34.95	Average	153	163	HORIZONTAL
2	4926.39	47.16	74.00	-26.84	43.09	5.97	33.05	34.95	Peak	153	163	HORIZONTAL
3	7389.88	37.94	54.00	-16.06	28.92	7.17	37.08	35.23	Average	164	154	HORIZONTAL
4	7393.82	51.65	74.00	-22.35	42.63	7.17	37.08	35.23	Peak	164	154	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4925.11	48.03	74.00	-25.97	43.96	5.97	33.05	34.95	Peak	149	184	VERTICAL
2	4926.48	41.85	54.00	-12.15	37.78	5.97	33.05	34.95	Average	149	184	VERTICAL
3	7381.69	50.81	74.00	-23.19	41.82	7.16	37.06	35.23	Peak	153	163	VERTICAL
4	7393.03	38.03	54.00	-15.97	29.01	7.17	37.08	35.23	Average	153	163	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11b CH 12 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4934.33	46.49	74.00	-27.51	42.42	5.97	33.05	34.95	Peak	161	86	HORIZONTAL
2	4935.16	35.49	54.00	-18.51	31.42	5.97	33.05	34.95	Average	161	86	HORIZONTAL
3	7395.62	51.32	74.00	-22.68	42.30	7.17	37.08	35.23	Peak	161	111	HORIZONTAL
4	7399.76	38.22	54.00	-15.78	29.20	7.17	37.08	35.23	Average	161	111	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4935.51	40.88	54.00	-13.12	36.76	5.98	33.09	34.95	Average	165	103	VERTICAL
2	4936.45	48.67	74.00	-25.33	44.55	5.98	33.09	34.95	Peak	165	103	VERTICAL
3	7398.34	50.90	74.00	-23.10	41.88	7.17	37.08	35.23	Peak	142	139	VERTICAL
4	7406.64	38.35	54.00	-15.65	29.30	7.18	37.10	35.23	Average	142	139	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11b CH 13 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4944.02	33.13	54.00	-20.87	29.01	5.98	33.09	34.95	Average	158	327	HORIZONTAL
2	4945.14	45.75	74.00	-28.25	41.63	5.98	33.09	34.95	Peak	158	327	HORIZONTAL
3	7407.00	51.45	74.00	-22.55	42.40	7.18	37.10	35.23	Peak	166	75	HORIZONTAL
4	7413.97	38.21	54.00	-15.79	29.16	7.18	37.10	35.23	Average	166	75	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4943.97	34.52	54.00	-19.48	30.40	5.98	33.09	34.95	Average	150	335	VERTICAL
2	4944.29	46.23	74.00	-27.77	42.11	5.98	33.09	34.95	Peak	150	335	VERTICAL
3	7423.09	38.32	54.00	-15.68	29.24	7.19	37.12	35.23	Average	177	92	VERTICAL
4	7425.00	51.17	74.00	-22.83	42.09	7.19	37.12	35.23	Peak	177	92	VERTICAL

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11g CH 1 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4823.94	47.00	74.00	-27.00	43.27	5.87	32.82	34.96	Peak	146	46	HORIZONTAL
2	4824.61	32.04	54.00	-21.96	28.31	5.87	32.82	34.96	Average	146	46	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4816.56	45.37	74.00	-28.63	41.64	5.87	32.82	34.96	Peak	139	355	VERTICAL
2	4824.26	32.35	54.00	-21.65	28.62	5.87	32.82	34.96	Average	139	355	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11g CH 6 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4872.12	32.43	54.00	-21.57	28.54	5.92	32.93	34.96	Average	158	106	HORIZONTAL
2	4874.78	46.45	74.00	-27.55	42.56	5.92	32.93	34.96	Peak	158	106	HORIZONTAL
3	7303.91	37.46	54.00	-16.54	28.58	7.13	36.97	35.22	Average	147	124	HORIZONTAL
4	7309.09	51.17	74.00	-22.83	42.29	7.13	36.97	35.22	Peak	147	124	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4866.68	36.24	54.00	-17.76	32.40	5.90	32.90	34.96	Average	137	96	VERTICAL
2	4867.11	48.41	74.00	-25.59	44.57	5.90	32.90	34.96	Peak	137	96	VERTICAL
3	7302.95	50.85	74.00	-23.15	41.97	7.13	36.97	35.22	Peak	160	116	VERTICAL
4	7306.49	37.40	54.00	-16.60	28.52	7.13	36.97	35.22	Average	160	116	VERTICAL

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11g CH 11 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4922.99	31.82	54.00	-22.18	27.75	5.97	33.05	34.95	Average	160	315	HORIZONTAL
2	4927.33	46.16	74.00	-27.84	42.09	5.97	33.05	34.95	Peak	160	315	HORIZONTAL
3	7376.16	38.00	54.00	-16.00	29.01	7.16	37.06	35.23	Average	158	144	HORIZONTAL
4	7384.15	51.58	74.00	-22.42	42.56	7.17	37.08	35.23	Peak	158	144	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4917.69	32.89	54.00	-21.11	28.88	5.95	33.01	34.95	Average	168	347	VERTICAL
2	4918.65	46.03	74.00	-27.97	41.96	5.97	33.05	34.95	Peak	168	347	VERTICAL
3	7384.03	37.95	54.00	-16.05	28.93	7.17	37.08	35.23	Average	152	198	VERTICAL
4	7390.66	51.29	74.00	-22.71	42.27	7.17	37.08	35.23	Peak	152	198	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11g CH 12 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4937.42	31.99	54.00	-22.01	27.87	5.98	33.09	34.95	Average	138	203	HORIZONTAL
2	4940.11	46.00	74.00	-28.00	41.88	5.98	33.09	34.95	Peak	138	203	HORIZONTAL
3	7400.05	38.18	54.00	-15.82	29.16	7.17	37.08	35.23	Average	143	238	HORIZONTAL
4	7407.37	51.45	74.00	-22.55	42.40	7.18	37.10	35.23	Peak	143	238	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4929.40	32.28	54.00	-21.72	28.21	5.97	33.05	34.95	Average	153	302	VERTICAL
2	4937.24	46.93	74.00	-27.07	42.81	5.98	33.09	34.95	Peak	153	302	VERTICAL
3	7395.96	38.08	54.00	-15.92	29.06	7.17	37.08	35.23	Average	160	262	VERTICAL
4	7407.17	51.18	74.00	-22.82	42.13	7.18	37.10	35.23	Peak	160	262	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11g CH 13 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4939.57	32.91	54.00	-21.09	28.79	5.98	33.09	34.95	Average	185	282	HORIZONTAL
2	4947.44	46.04	74.00	-27.96	41.92	5.98	33.09	34.95	Peak	185	282	HORIZONTAL
3	7409.46	38.19	54.00	-15.81	29.14	7.18	37.10	35.23	Average	153	171	HORIZONTAL
4	7410.82	52.06	74.00	-21.94	43.01	7.18	37.10	35.23	Peak	153	171	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4937.95	33.06	54.00	-20.94	28.94	5.98	33.09	34.95	Average	159	293	VERTICAL
2	4947.44	45.90	74.00	-28.10	41.78	5.98	33.09	34.95	Peak	159	293	VERTICAL
3	7406.33	38.23	54.00	-15.77	29.18	7.18	37.10	35.23	Average	149	196	VERTICAL
4	7417.36	51.49	74.00	-22.51	42.44	7.18	37.10	35.23	Peak	149	196	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT20 CH 1 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4817.11	32.31	54.00	-21.69	28.58	5.87	32.82	34.96	Average	150	134	HORIZONTAL
2	4821.92	45.90	74.00	-28.10	42.17	5.87	32.82	34.96	Peak	150	134	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4820.67	32.02	54.00	-21.98	28.29	5.87	32.82	34.96	Average	144	136	VERTICAL
2	4825.25	46.41	74.00	-27.59	42.68	5.87	32.82	34.96	Peak	144	136	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT20 CH 6 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4869.01	32.68	54.00	-21.32	28.79	5.92	32.93	34.96	Average	162	273	HORIZONTAL
2	4879.04	46.01	74.00	-27.99	42.12	5.92	32.93	34.96	Peak	162	273	HORIZONTAL
3	7303.91	50.65	74.00	-23.35	41.77	7.13	36.97	35.22	Peak	168	198	HORIZONTAL
4	7309.03	37.37	54.00	-16.63	28.49	7.13	36.97	35.22	Average	168	198	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4870.35	46.54	74.00	-27.46	42.65	5.92	32.93	34.96	Peak	181	330	VERTICAL
2	4879.56	33.44	54.00	-20.56	29.55	5.92	32.93	34.96	Average	181	330	VERTICAL
3	7301.28	37.36	54.00	-16.64	28.48	7.13	36.97	35.22	Average	160	190	VERTICAL
4	7316.33	51.14	74.00	-22.86	42.24	7.14	36.99	35.23	Peak	160	190	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT20 CH 11 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4924.25	31.85	54.00	-22.15	27.78	5.97	33.05	34.95	Average	147	302	HORIZONTAL
2	4924.33	45.84	74.00	-28.16	41.77	5.97	33.05	34.95	Peak	147	302	HORIZONTAL
3	7381.40	51.55	74.00	-22.45	42.56	7.16	37.06	35.23	Peak	168	262	HORIZONTAL
4	7391.04	38.07	54.00	-15.93	29.05	7.17	37.08	35.23	Average	168	262	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4917.05	31.95	54.00	-22.05	27.94	5.95	33.01	34.95	Average	152	295	VERTICAL
2	4924.30	45.90	74.00	-28.10	41.83	5.97	33.05	34.95	Peak	152	295	VERTICAL
3	7392.80	51.74	74.00	-22.26	42.72	7.17	37.08	35.23	Peak	176	233	VERTICAL
4	7395.81	37.94	54.00	-16.06	28.92	7.17	37.08	35.23	Average	176	233	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT20 CH 12 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4933.99	32.61	54.00	-21.39	28.54	5.97	33.05	34.95	Average	165	272	HORIZONTAL
2	4934.08	46.07	74.00	-27.93	42.00	5.97	33.05	34.95	Peak	165	272	HORIZONTAL
3	7402.97	51.68	74.00	-22.32	42.63	7.18	37.10	35.23	Peak	158	256	HORIZONTAL
4	7405.81	38.07	54.00	-15.93	29.02	7.18	37.10	35.23	Average	158	256	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4933.94	32.31	54.00	-21.69	28.24	5.97	33.05	34.95	Average	171	310	VERTICAL
2	4933.99	45.65	74.00	-28.35	41.58	5.97	33.05	34.95	Peak	171	310	VERTICAL
3	7399.52	51.35	74.00	-22.65	42.33	7.17	37.08	35.23	Peak	148	228	VERTICAL
4	7406.64	38.23	54.00	-15.77	29.18	7.18	37.10	35.23	Average	148	228	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT20 CH 13 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4941.86	47.23	74.00	-26.77	43.11	5.98	33.09	34.95	Peak	134	298	HORIZONTAL
2	4946.00	33.14	54.00	-20.86	29.02	5.98	33.09	34.95	Average	134	298	HORIZONTAL
3	7413.40	51.36	74.00	-22.64	42.31	7.18	37.10	35.23	Peak	140	278	HORIZONTAL
4	7420.60	38.36	54.00	-15.64	29.28	7.19	37.12	35.23	Average	140	278	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4943.92	32.94	54.00	-21.06	28.82	5.98	33.09	34.95	Average	154	240	VERTICAL
2	4944.10	46.89	74.00	-27.11	42.77	5.98	33.09	34.95	Peak	154	240	VERTICAL
3	7406.59	38.56	54.00	-15.44	29.51	7.18	37.10	35.23	Average	146	252	VERTICAL
4	7421.36	51.73	74.00	-22.27	42.65	7.19	37.12	35.23	Peak	146	252	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT40 CH 3 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4842.12	32.62	54.00	-21.38	28.84	5.88	32.86	34.96	Average	148	129	HORIZONTAL
2	4847.94	45.88	74.00	-28.12	42.10	5.88	32.86	34.96	Peak	148	129	HORIZONTAL
3	7272.48	50.64	74.00	-23.36	41.82	7.11	36.93	35.22	Peak	177	73	HORIZONTAL
4	7275.84	37.36	54.00	-16.64	28.54	7.11	36.93	35.22	Average	177	73	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4848.78	32.54	54.00	-21.46	28.76	5.88	32.86	34.96	Average	153	106	VERTICAL
2	4853.38	45.80	74.00	-28.20	41.96	5.90	32.90	34.96	Peak	153	106	VERTICAL
3	7256.80	50.52	74.00	-23.48	41.73	7.10	36.91	35.22	Peak	160	100	VERTICAL
4	7258.85	37.22	54.00	-16.78	28.43	7.10	36.91	35.22	Average	160	100	VERTICAL

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT40 CH 6 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4876.89	32.54	54.00	-21.46	28.65	5.92	32.93	34.96	Average	162	158	HORIZONTAL
2	4878.72	45.84	74.00	-28.16	41.95	5.92	32.93	34.96	Peak	162	158	HORIZONTAL
3	7303.04	37.39	54.00	-16.61	28.51	7.13	36.97	35.22	Average	153	189	HORIZONTAL
4	7318.21	51.48	74.00	-22.52	42.58	7.14	36.99	35.23	Peak	153	189	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4864.77	45.72	74.00	-28.28	41.88	5.90	32.90	34.96	Peak	144	146	VERTICAL
2	4879.30	32.67	54.00	-21.33	28.78	5.92	32.93	34.96	Average	144	146	VERTICAL
3	7307.35	37.35	54.00	-16.65	28.47	7.13	36.97	35.22	Average	163	166	VERTICAL
4	7311.90	50.46	74.00	-23.54	41.59	7.13	36.97	35.23	Peak	163	166	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT40 CH 9 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4894.83	45.94	74.00	-28.06	41.99	5.93	32.97	34.95	Peak	182	241	HORIZONTAL
2	4895.87	32.92	54.00	-21.08	28.97	5.93	32.97	34.95	Average	182	241	HORIZONTAL
3	7359.73	51.14	74.00	-22.86	42.18	7.16	37.03	35.23	Peak	166	258	HORIZONTAL
4	7361.53	37.86	54.00	-16.14	28.90	7.16	37.03	35.23	Average	166	258	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4896.33	45.93	74.00	-28.07	41.98	5.93	32.97	34.95	Peak	150	173	VERTICAL
2	4897.14	32.95	54.00	-21.05	29.00	5.93	32.97	34.95	Average	150	173	VERTICAL
3	7355.71	37.92	54.00	-16.08	28.96	7.16	37.03	35.23	Average	147	191	VERTICAL
4	7360.52	51.31	74.00	-22.69	42.35	7.16	37.03	35.23	Peak	147	191	VERTICAL



Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT40 CH 10 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4907.66	32.48	54.00	-21.52	28.47	5.95	33.01	34.95	Average	154	142	HORIZONTAL
2	4917.82	46.10	74.00	-27.90	42.09	5.95	33.01	34.95	Peak	154	142	HORIZONTAL
3	7374.97	51.40	74.00	-22.60	42.41	7.16	37.06	35.23	Peak	159	160	HORIZONTAL
4	7375.14	38.05	54.00	-15.95	29.06	7.16	37.06	35.23	Average	159	160	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4908.94	45.63	74.00	-28.37	41.62	5.95	33.01	34.95	Peak	168	201	VERTICAL
2	4910.30	32.42	54.00	-21.58	28.41	5.95	33.01	34.95	Average	168	201	VERTICAL
3	7373.23	50.99	74.00	-23.01	42.00	7.16	37.06	35.23	Peak	177	183	VERTICAL
4	7376.18	37.86	54.00	-16.14	28.87	7.16	37.06	35.23	Average	177	183	VERTICAL

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT40 CH 11 / Chain 1 + Chain 2
Test Date	May 09, 2015		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4914.10	45.64	74.00	-28.36	41.63	5.95	33.01	34.95 Peak	160	108	HORIZONTAL
2	4929.90	32.48	54.00	-21.52	28.41	5.97	33.05	34.95 Average	160	108	HORIZONTAL
3	7379.05	37.93	54.00	-16.07	28.94	7.16	37.06	35.23 Average	167	85	HORIZONTAL
4	7389.76	50.81	74.00	-23.19	41.79	7.17	37.08	35.23 Peak	167	85	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4915.78	45.38	74.00	-28.62	41.37	5.95	33.01	34.95 Peak	166	76	VERTICAL
2	4930.77	32.37	54.00	-21.63	28.30	5.97	33.05	34.95 Average	166	76	VERTICAL
3	7381.25	51.91	74.00	-22.09	42.92	7.16	37.06	35.23 Peak	178	88	VERTICAL
4	7382.73	38.08	54.00	-15.92	29.09	7.16	37.06	35.23 Average	178	88	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.2. Emissions Measurement

4.2.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.2.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1 MHz / 3MHz for Peak, 1 MHz / 1/T for Average
RBW / VBW (30dBc in any 100 kHz bandwidth emission)	100 kHz / 300 kHz for Peak

4.2.3. Test Procedures

For Radiated band edges Measurement:

- The test procedure is the same as section 4.1.3, only the frequency range investigated is limited to 100MHz around band edges.

For Radiated Out of Band Emission Measurement:

- Test was performed in accordance with KDB 558074 D01 v03r02 for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 10.1 Unwanted Emissions into Non-Restricted Frequency Bands Measurement Procedure.
Only worst data of each operating mode is presented

4.2.4. Test Setup Layout

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.1.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.1.4.

4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.2.7. Test Result of Band Edge and Fundamental Emissions

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11b CH 1, 6, 11, 12, 13 / Chain 1 + Chan 2
Test Date	May 09, 2015		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2386.53	63.81	74.00	-10.19	30.88	4.09	28.84	0.00	Peak	154	319	VERTICAL
2	2387.25	52.19	54.00	-1.81	19.26	4.09	28.84	0.00	Average	154	319	VERTICAL
3	2412.72	106.32			73.36	4.11	28.85	0.00	Average	154	319	VERTICAL
4	2413.01	109.30			76.34	4.11	28.85	0.00	Peak	154	319	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.13	61.74	74.00	-12.26	28.81	4.09	28.84	0.00	Peak	199	301	VERTICAL
2	2390.00	48.11	54.00	-5.89	15.18	4.09	28.84	0.00	Average	199	301	VERTICAL
3	2436.13	111.43			78.45	4.12	28.86	0.00	Peak	199	301	VERTICAL
4	2436.42	108.61			75.63	4.12	28.86	0.00	Average	199	301	VERTICAL
5	2483.50	48.16	54.00	-5.84	15.11	4.16	28.89	0.00	Average	199	301	VERTICAL
6	2487.84	62.00	74.00	-12.00	28.93	4.17	28.90	0.00	Peak	199	301	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2462.72	107.31			74.29	4.14	28.88	0.00	Average	154	359	VERTICAL
2	2463.01	110.10			77.08	4.14	28.88	0.00	Peak	154	359	VERTICAL
3	2483.50	51.09	54.00	-2.91	18.04	4.16	28.89	0.00	Average	154	359	VERTICAL
4	2483.50	62.16	74.00	-11.84	29.11	4.16	28.89	0.00	Peak	154	359	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.



Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2466.28	106.39			73.37	4.14	28.88	0.00	Average	151	0	VERTICAL
2	2466.28	109.17			76.15	4.14	28.88	0.00	Peak	151	0	VERTICAL
3	2483.50	51.10	54.00	-2.90	18.05	4.16	28.89	0.00	Average	151	0	VERTICAL
4	2483.50	63.38	74.00	-10.62	30.33	4.16	28.89	0.00	Peak	151	0	VERTICAL

Item 1, 2 are the fundamental frequency at 2467 MHz.

Channel 13

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2472.72	101.11			68.06	4.16	28.89	0.00	Average	152	304	VERTICAL
2	2473.01	103.83			70.78	4.16	28.89	0.00	Peak	152	304	VERTICAL
3	2485.96	50.10	54.00	-3.90	17.05	4.16	28.89	0.00	Average	152	304	VERTICAL
4	2486.25	63.07	74.00	-10.93	30.02	4.16	28.89	0.00	Peak	152	304	VERTICAL

Item 1, 2 are the fundamental frequency at 2472 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11g CH 1, 6, 11, 12, 13 / Chain 1 + Chan 2
Test Date	May 09, 2015		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.86	67.45	74.00	-6.55	34.52	4.09	28.84	0.00	Peak	154	316	VERTICAL
2	2390.00	52.34	54.00	-1.66	19.41	4.09	28.84	0.00	Average	154	316	VERTICAL
3	2416.34	98.19			65.23	4.11	28.85	0.00	Average	154	316	VERTICAL
4	2416.49	108.86			75.90	4.11	28.85	0.00	Peak	154	316	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.42	64.22	74.00	-9.78	31.29	4.09	28.84	0.00	Peak	186	55	VERTICAL
2	2390.00	52.37	54.00	-1.63	19.44	4.09	28.84	0.00	Average	186	55	VERTICAL
3	2439.32	103.58			70.58	4.13	28.87	0.00	Average	186	55	VERTICAL
4	2439.32	113.67			80.67	4.13	28.87	0.00	Peak	186	55	VERTICAL
5	2483.50	50.44	54.00	-3.56	17.39	4.16	28.89	0.00	Average	186	55	VERTICAL
6	2483.50	64.94	74.00	-9.06	31.89	4.16	28.89	0.00	Peak	186	55	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2454.76	97.71			64.69	4.14	28.88	0.00	Average	163	82	VERTICAL
2	2460.26	107.67			74.65	4.14	28.88	0.00	Peak	163	82	VERTICAL
3	2483.50	49.60	54.00	-4.40	16.55	4.16	28.89	0.00	Average	163	82	VERTICAL
4	2483.79	62.89	74.00	-11.11	29.84	4.16	28.89	0.00	Peak	163	82	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2460.05	97.65			64.63	4.14	28.88	0.00 Average	165	79	VERTICAL
2	2460.20	107.42			74.40	4.14	28.88	0.00 Peak	165	79	VERTICAL
3	2483.64	51.17	54.00	-2.83	18.12	4.16	28.89	0.00 Average	165	79	VERTICAL
4	2483.79	63.98	74.00	-10.02	30.93	4.16	28.89	0.00 Peak	165	79	VERTICAL

Item 1, 2 are the fundamental frequency at 2467 MHz.

Channel 13

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2466.07	96.66			63.64	4.14	28.88	0.00 Average	175	299	VERTICAL
2	2476.34	106.51			73.46	4.16	28.89	0.00 Peak	175	299	VERTICAL
3	2483.50	64.94	74.00	-9.06	31.89	4.16	28.89	0.00 Peak	175	299	VERTICAL
4	2486.68	51.97	54.00	-2.03	18.92	4.16	28.89	0.00 Average	175	299	VERTICAL

Item 1, 2 are the fundamental frequency at 2472 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT20 CH 1, 6, 11, 12, 13 / Chain 1 + Chan 2
Test Date	May 09, 2015		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.57	53.79	54.00	-0.21	20.86	4.09	28.84	0.00	Average	153	317	VERTICAL
2	2390.00	68.12	74.00	-5.88	35.19	4.09	28.84	0.00	Peak	153	317	VERTICAL
3	2413.88	108.84			75.88	4.11	28.85	0.00	Peak	153	317	VERTICAL
4	2414.17	97.67			64.71	4.11	28.85	0.00	Average	153	317	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2388.84	52.41	54.00	-1.59	19.48	4.09	28.84	0.00	Average	179	93	VERTICAL
2	2390.00	64.81	74.00	-9.19	31.88	4.09	28.84	0.00	Peak	179	93	VERTICAL
3	2434.11	113.42			80.44	4.12	28.86	0.00	Peak	179	93	VERTICAL
4	2435.55	103.08			70.10	4.12	28.86	0.00	Average	179	93	VERTICAL
5	2483.50	49.78	54.00	-4.22	16.73	4.16	28.89	0.00	Average	179	93	VERTICAL
6	2484.95	61.94	74.00	-12.06	28.89	4.16	28.89	0.00	Peak	179	93	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2464.75	96.34			63.32	4.14	28.88	0.00	Average	151	360	VERTICAL
2	2467.50	106.94			73.92	4.14	28.88	0.00	Peak	151	360	VERTICAL
3	2484.37	62.16	74.00	-11.84	29.11	4.16	28.89	0.00	Peak	151	360	VERTICAL
4	2484.66	49.29	54.00	-4.71	16.24	4.16	28.89	0.00	Average	151	360	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.



Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2466.13	94.93			61.91	4.14	28.88	0.00 Average	153	78	VERTICAL
2	2466.42	105.43			72.41	4.14	28.88	0.00 Peak	153	78	VERTICAL
3	2483.50	49.94	54.00	-4.06	16.89	4.16	28.89	0.00 Average	153	78	VERTICAL
4	2483.64	62.83	74.00	-11.17	29.78	4.16	28.89	0.00 Peak	153	78	VERTICAL

Item 1, 2 are the fundamental frequency at 2467 MHz.

Channel 13

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2465.78	105.29			72.27	4.14	28.88	0.00 Peak	151	69	VERTICAL
2	2465.92	94.14			61.12	4.14	28.88	0.00 Average	151	69	VERTICAL
3	2483.50	53.89	54.00	-0.11	20.84	4.16	28.89	0.00 Average	151	69	VERTICAL
4	2483.50	68.88	74.00	-5.12	35.83	4.16	28.89	0.00 Peak	151	69	VERTICAL

Item 1, 2 are the fundamental frequency at 2472 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Temperature	26°C	Humidity	51%
Test Engineer	Mars Lin	Configurations	IEEE 802.11n MCS0 HT40 CH 3, 6, 9, 10, 11 / Chain 1 + Chan 2
Test Date	May 09, 2015		

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2383.34	66.76	74.00	-7.24	33.85	4.08	28.83	0.00 Peak	171	93	VERTICAL
2	2388.55	53.91	54.00	-0.09	20.98	4.09	28.84	0.00 Average	171	93	VERTICAL
3	2428.37	88.75			55.77	4.12	28.86	0.00 Average	171	93	VERTICAL
4	2430.97	101.78			68.80	4.12	28.86	0.00 Peak	171	93	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2387.97	63.35	74.00	-10.65	30.42	4.09	28.84	0.00 Peak	153	106	VERTICAL
2	2390.00	50.30	54.00	-3.70	17.37	4.09	28.84	0.00 Average	153	106	VERTICAL
3	2448.29	90.60			57.60	4.13	28.87	0.00 Average	153	106	VERTICAL
4	2449.45	103.82			70.82	4.13	28.87	0.00 Peak	153	106	VERTICAL
5	2483.50	48.56	54.00	-5.44	15.51	4.16	28.89	0.00 Average	153	106	VERTICAL
6	2484.08	61.36	74.00	-12.64	28.31	4.16	28.89	0.00 Peak	153	106	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2446.21	103.87			70.87	4.13	28.87	0.00 Peak	154	100	VERTICAL
2	2448.53	90.40			57.40	4.13	28.87	0.00 Average	154	100	VERTICAL
3	2483.50	49.61	54.00	-4.39	16.56	4.16	28.89	0.00 Average	154	100	VERTICAL
4	2484.37	61.81	74.00	-12.19	28.76	4.16	28.89	0.00 Peak	154	100	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Channel 10

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2448.32	89.34			56.34	4.13	28.87	0.00 Average	153	107	VERTICAL
2	2448.32	102.59			69.59	4.13	28.87	0.00 Peak	153	107	VERTICAL
3	2483.50	49.49	54.00	-4.51	16.44	4.16	28.89	0.00 Average	153	107	VERTICAL
4	2489.29	62.50	74.00	-11.50	29.43	4.17	28.90	0.00 Peak	153	107	VERTICAL

Item 1, 2 are the fundamental frequency at 2457 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2448.40	89.12			56.12	4.13	28.87	0.00 Average	151	99	VERTICAL
2	2448.40	102.36			69.36	4.13	28.87	0.00 Peak	151	99	VERTICAL
3	2483.50	52.73	54.00	-1.27	19.68	4.16	28.89	0.00 Average	151	99	VERTICAL
4	2483.50	66.73	74.00	-7.27	33.68	4.16	28.89	0.00 Peak	151	99	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

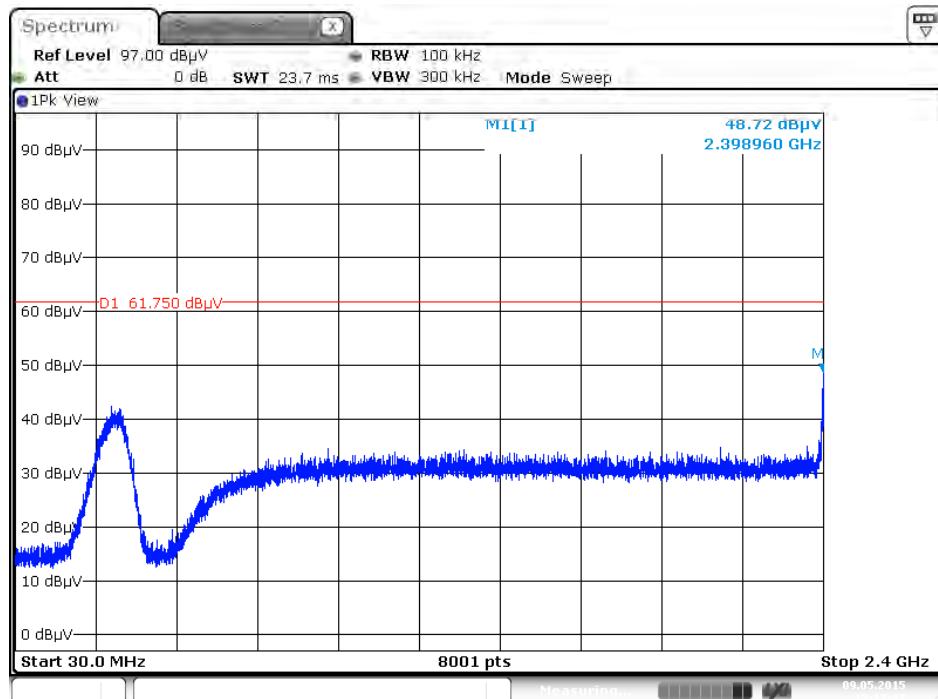
For Emission not in Restricted Band

Plot on Configuration IEEE 802.11b / Reference Level (Vertical)



Date: 9 MAY 2015 15:08:20

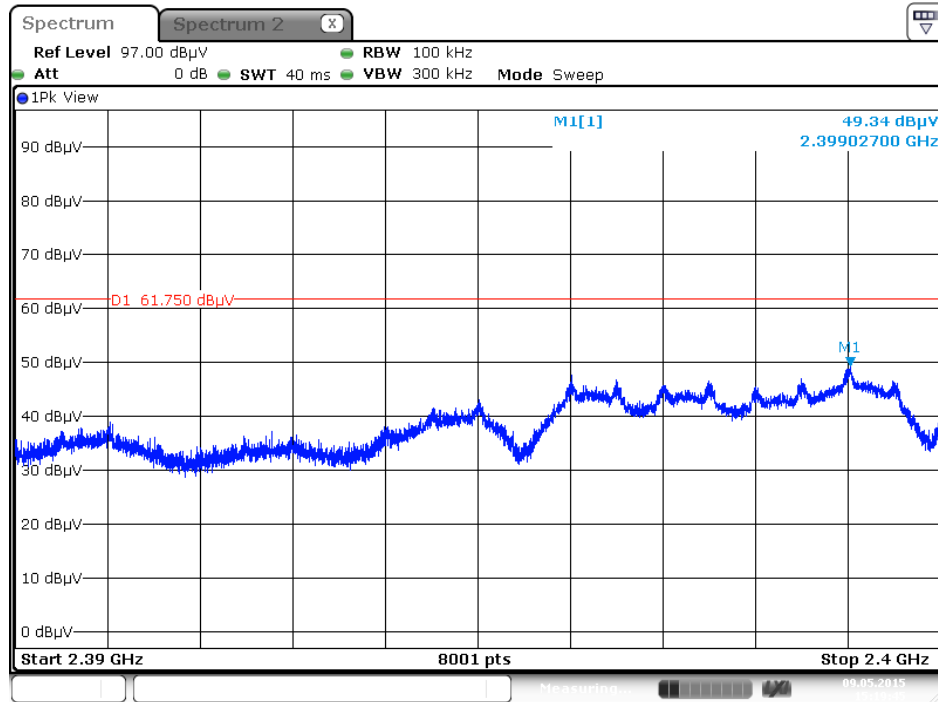
Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc) (Vertical)



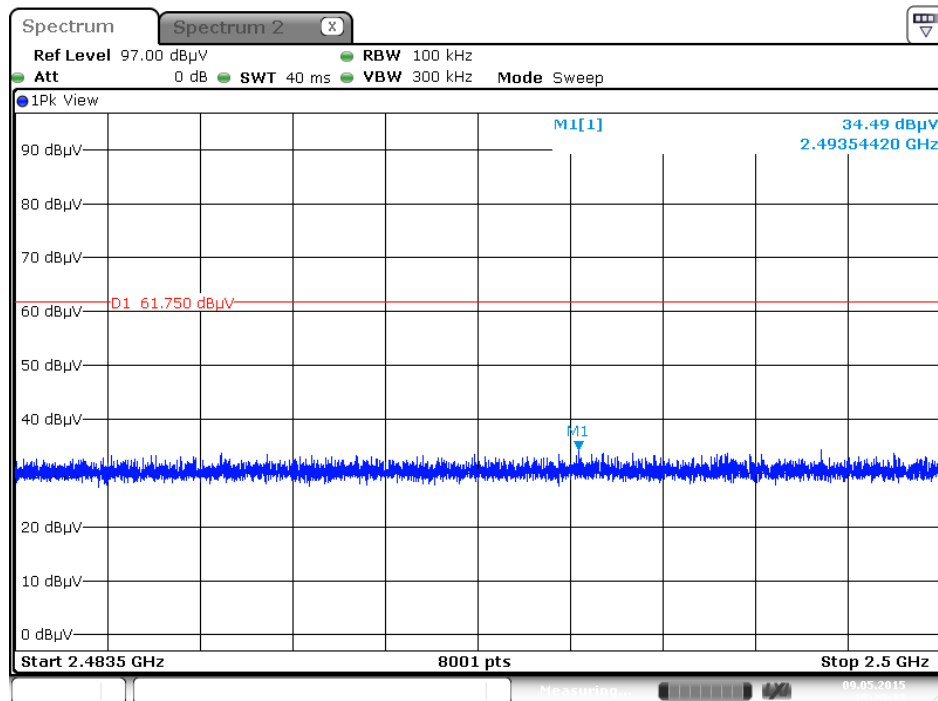
Date: 9 MAY 2015 15:17:37

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11b / CH 1 / 2390MHz~2400MHz (down 30dBc) (Vertical)

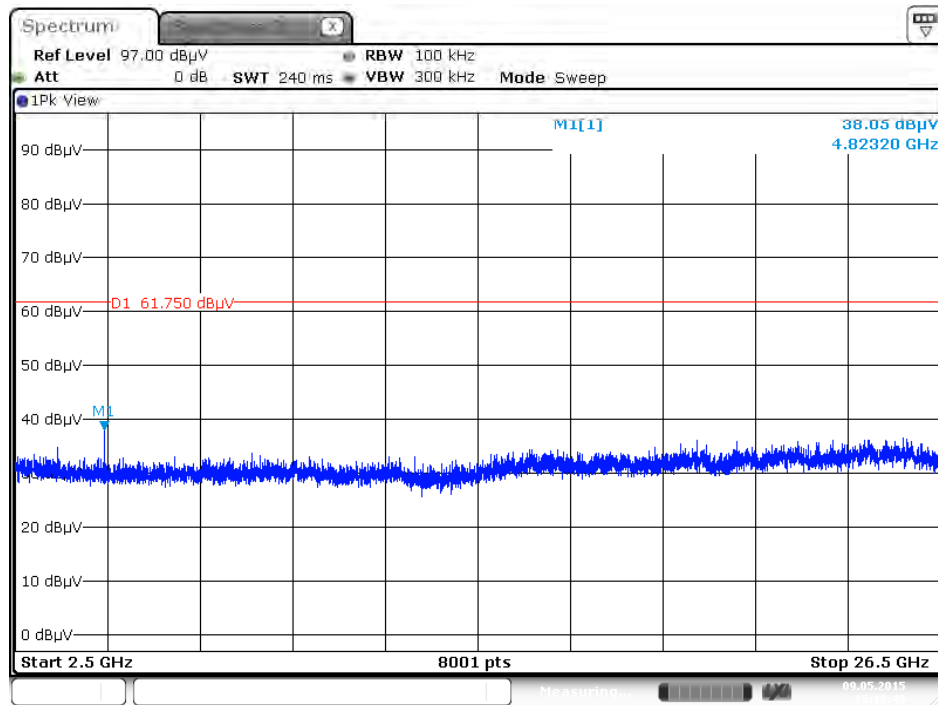


Plot on Configuration IEEE 802.11b / CH 1 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)

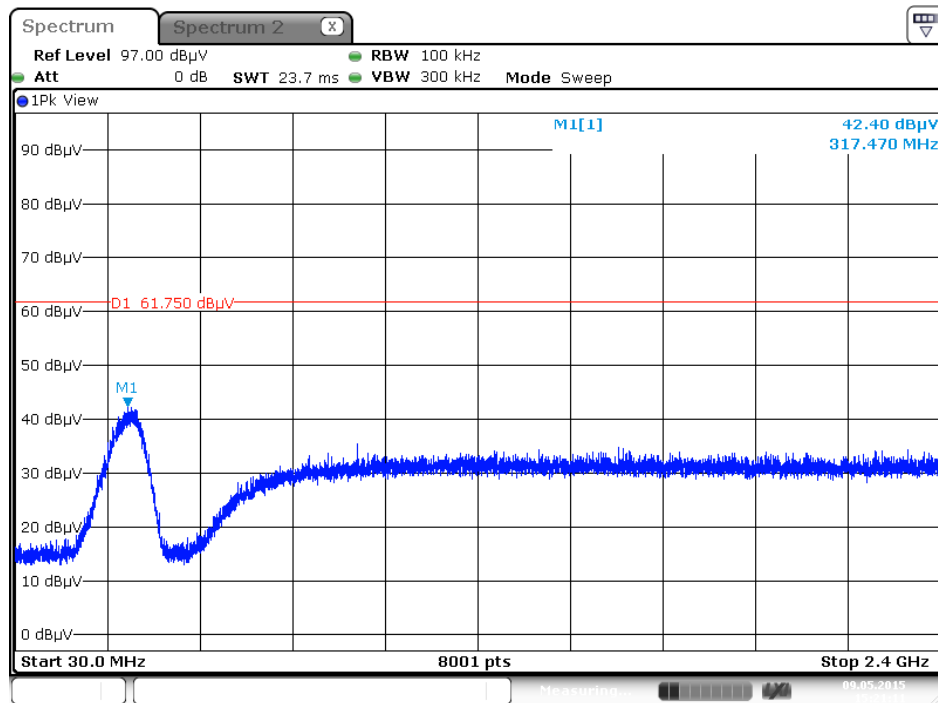


Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc) (Vertical)

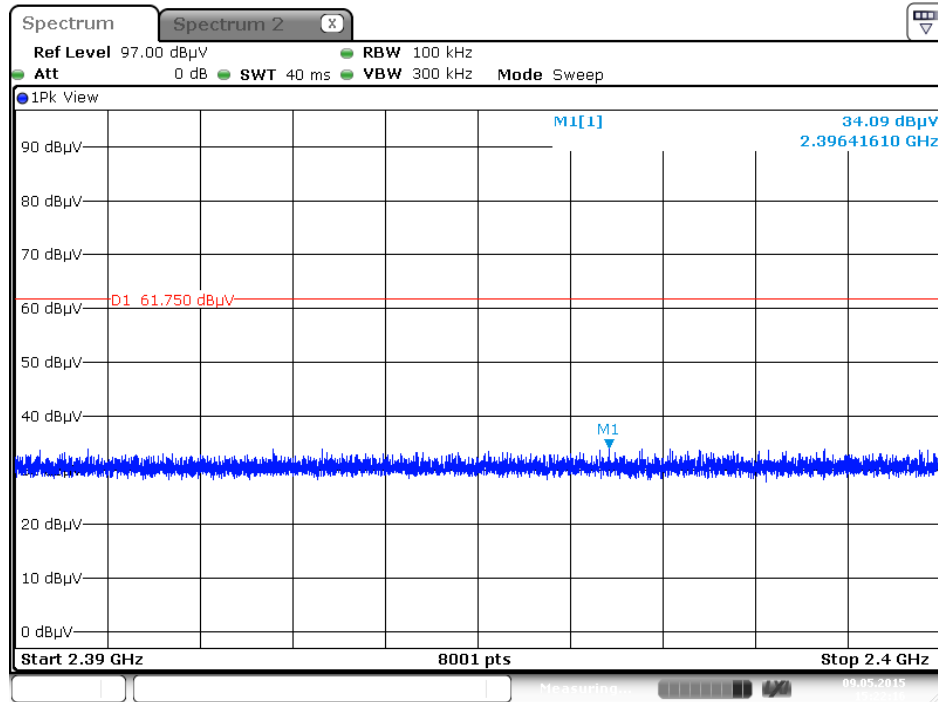


Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc) (Vertical)



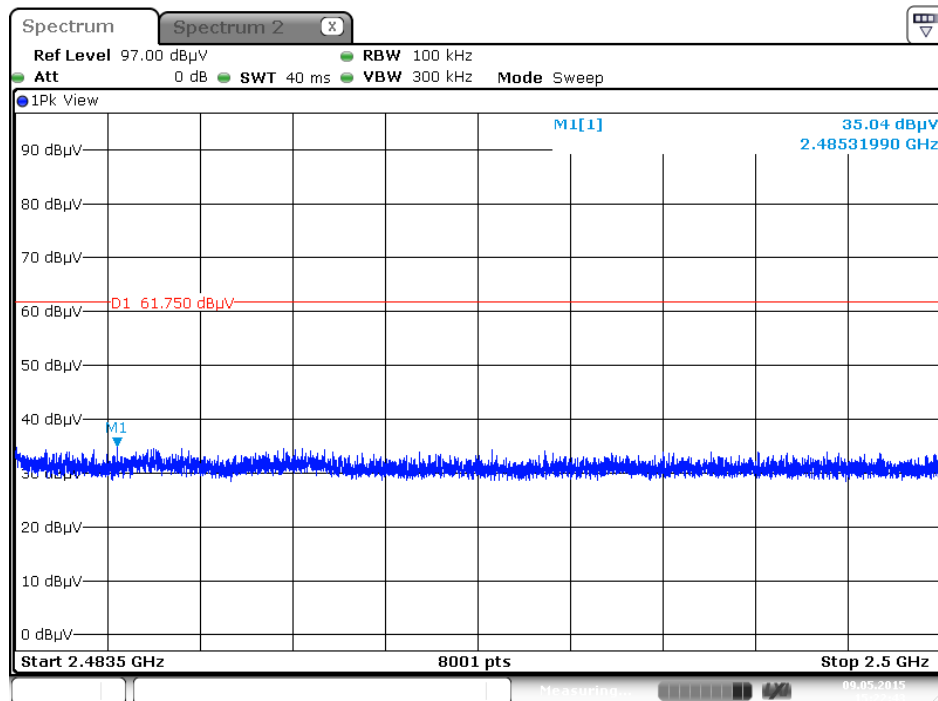
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11b / CH 11 / 2390MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:22:16

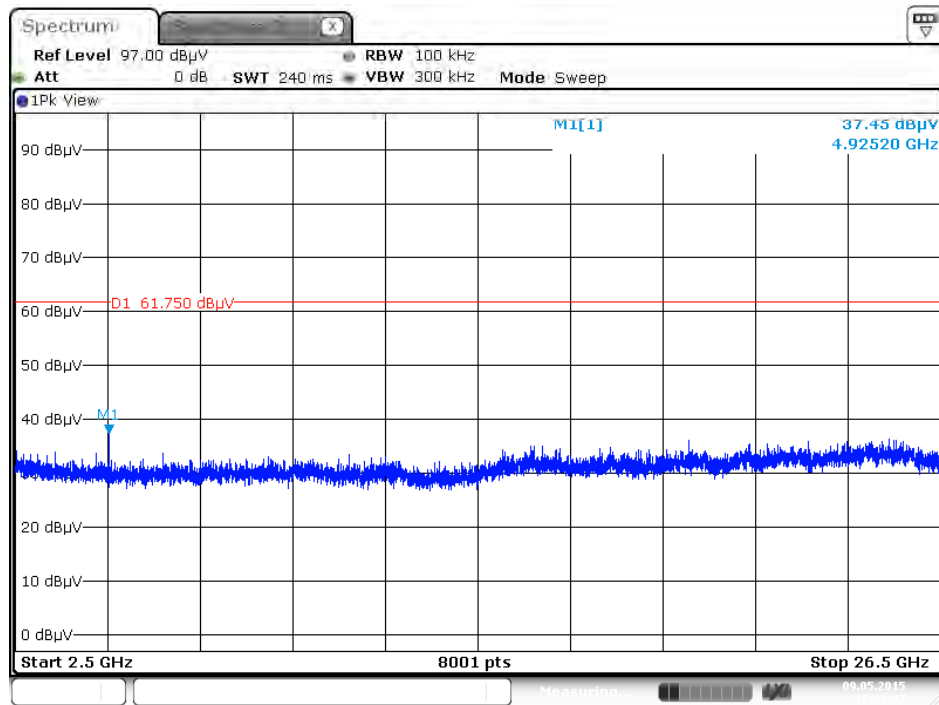
Plot on Configuration IEEE 802.11b / CH 11 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



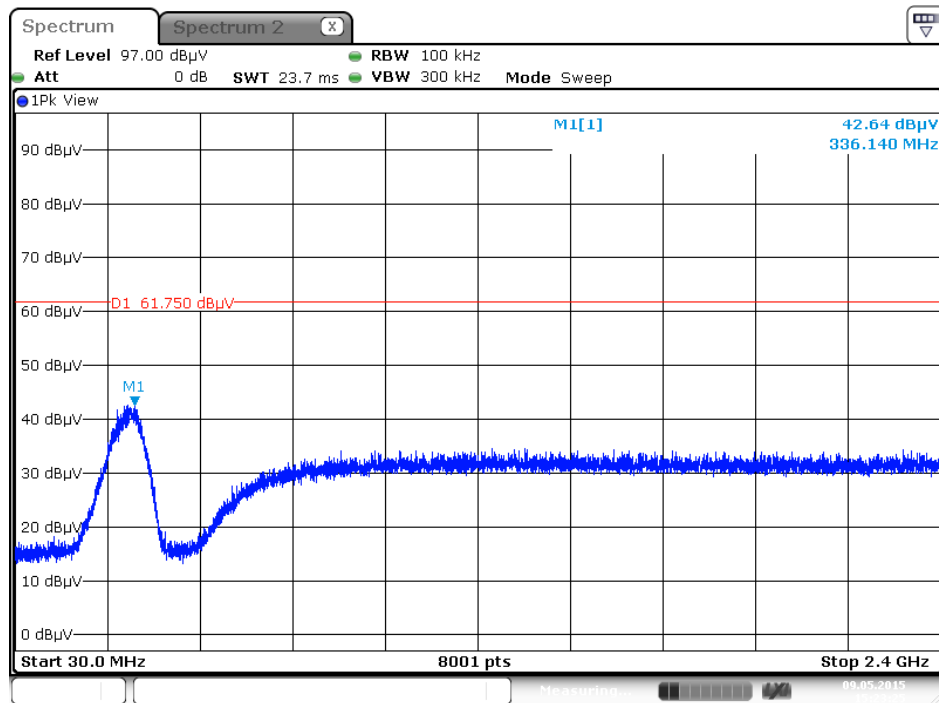
Date: 9 MAY 2015 15:22:43

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc) (Vertical)

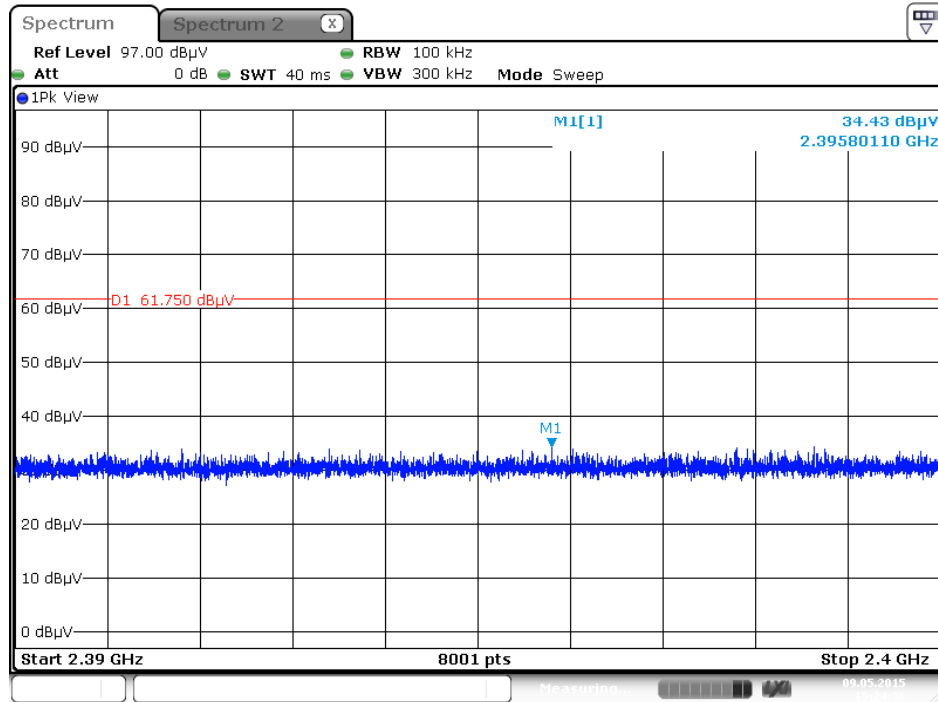


Plot on Configuration IEEE 802.11b / CH 12 / 30MHz~2400MHz (down 30dBc) (Vertical)

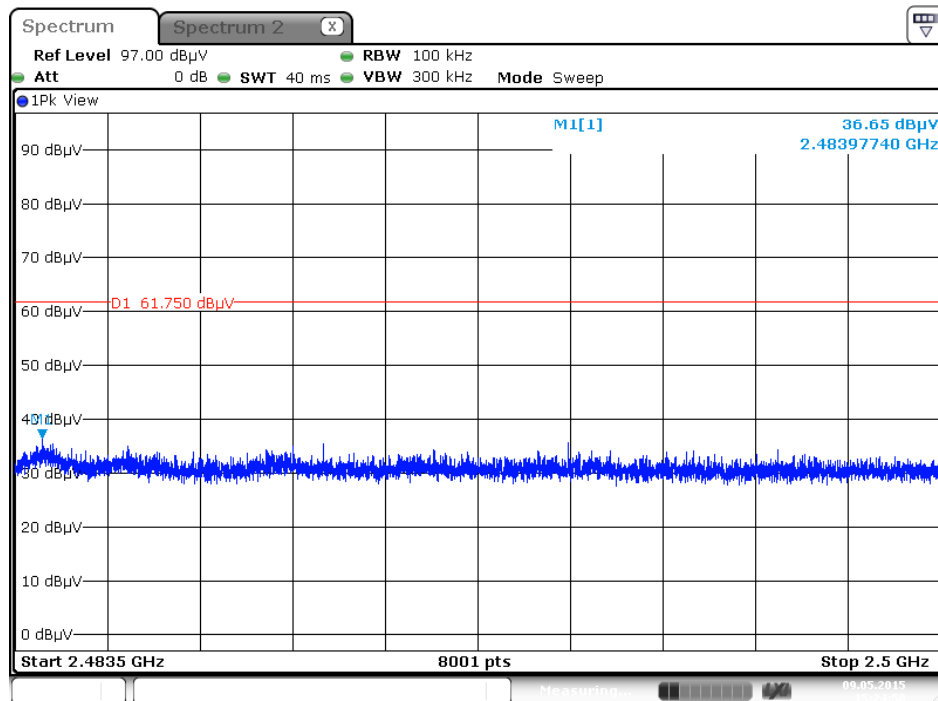


Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11b / CH 12 / 2390MHz~2400MHz (down 30dBc) (Vertical)

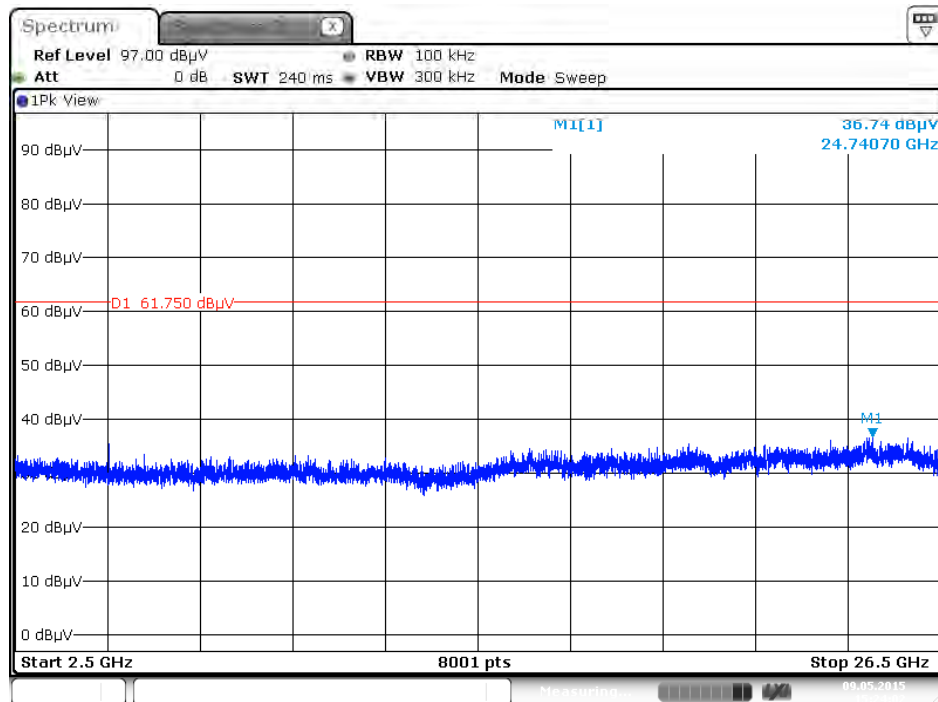


Plot on Configuration IEEE 802.11b / CH 12 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



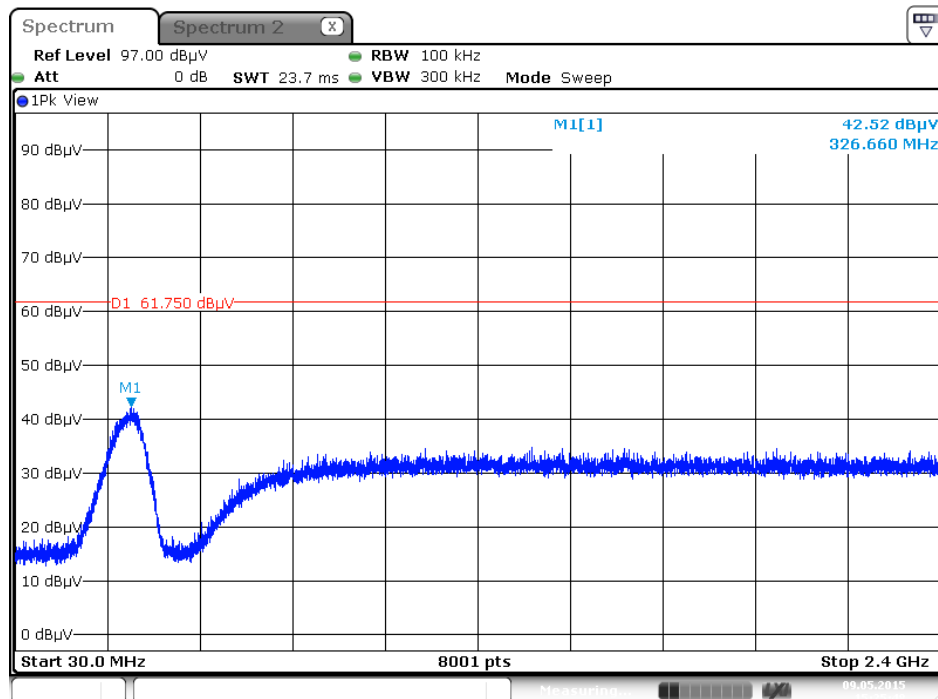
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11b / CH 12 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:24:03

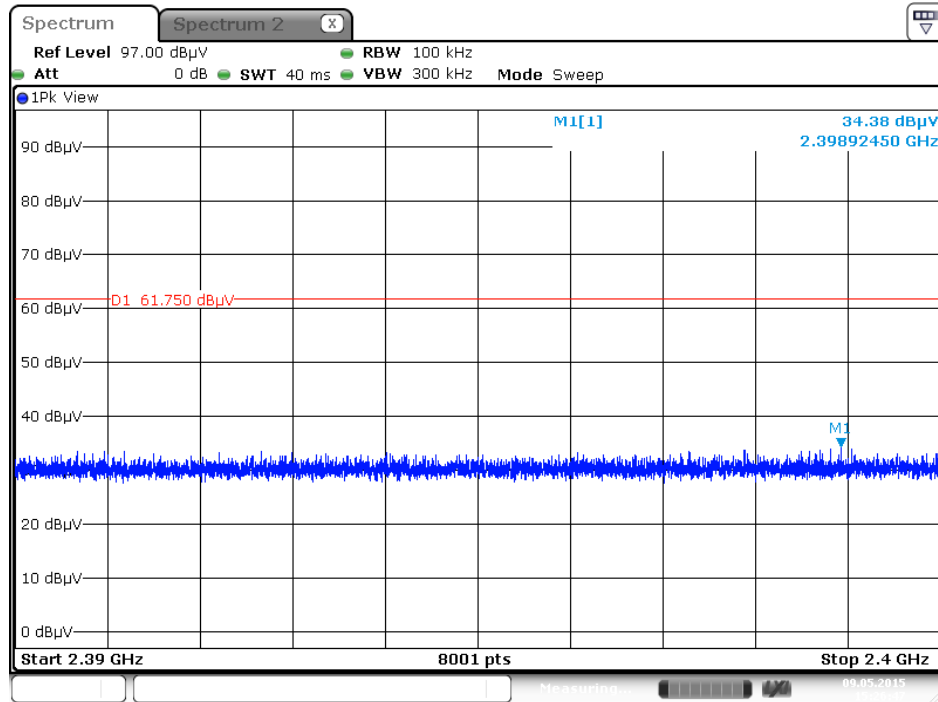
Plot on Configuration IEEE 802.11b / CH 13 / 30MHz~2400MHz (down 30dBc) (Vertical)



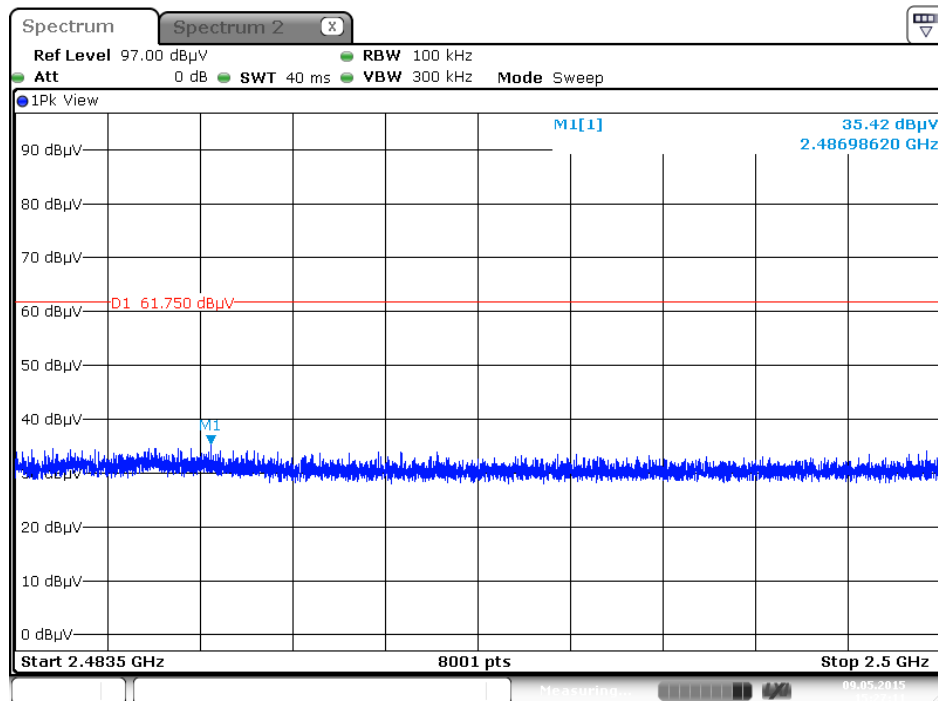
Date: 9 MAY 2015 15:25:48

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11b / CH 13 / 2390MHz~2400MHz (down 30dBc) (Vertical)

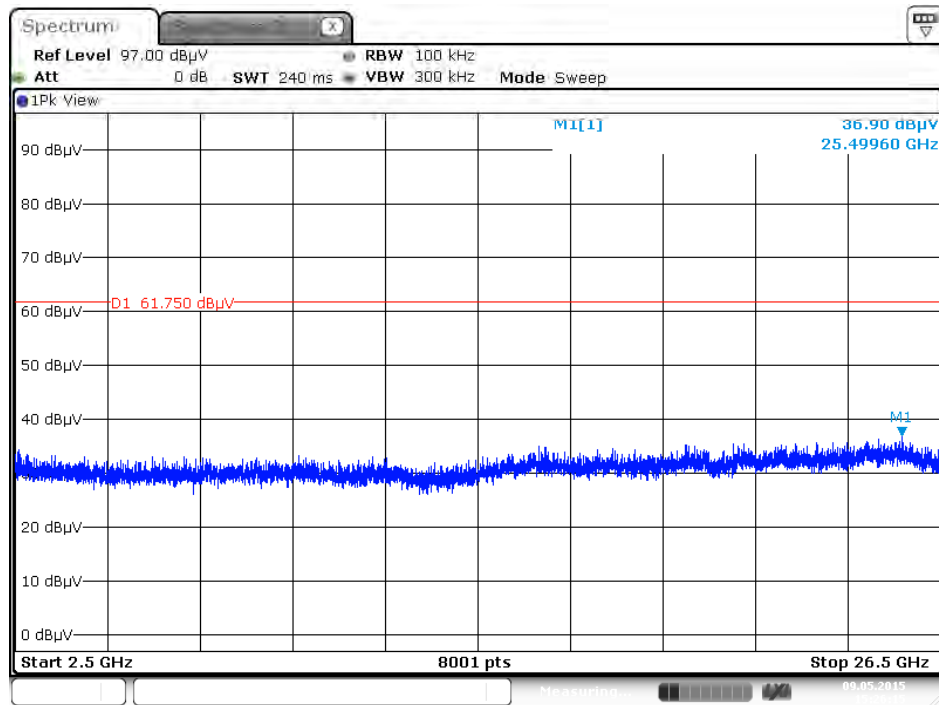


Plot on Configuration IEEE 802.11b / CH 13 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



Note: Only the worse polarization (Vertical) is tested and recorded in test report.

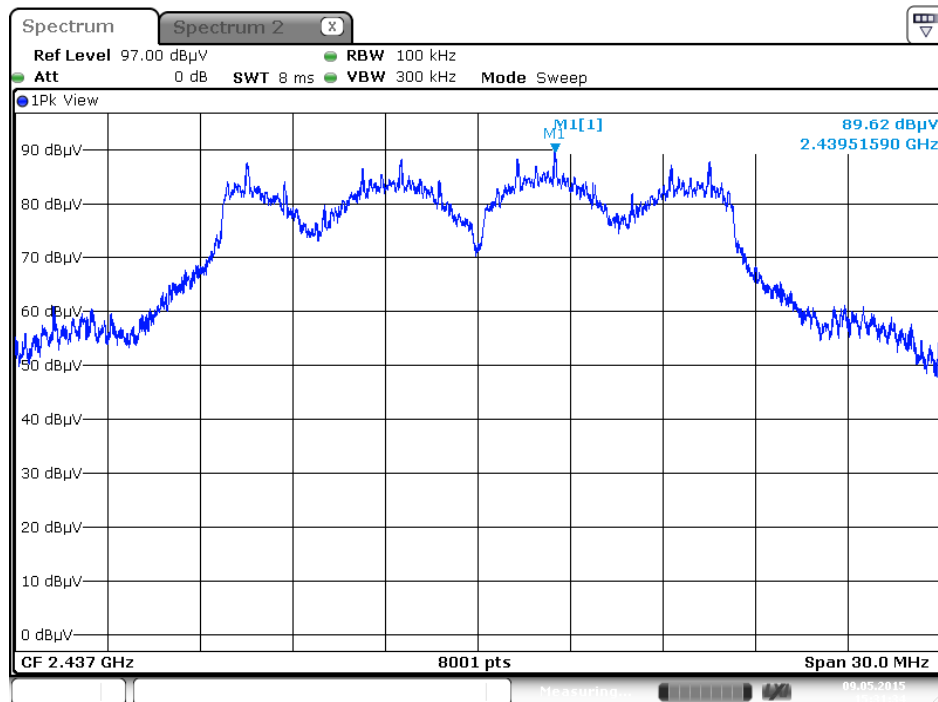
Plot on Configuration IEEE 802.11b / CH 13 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:26:15

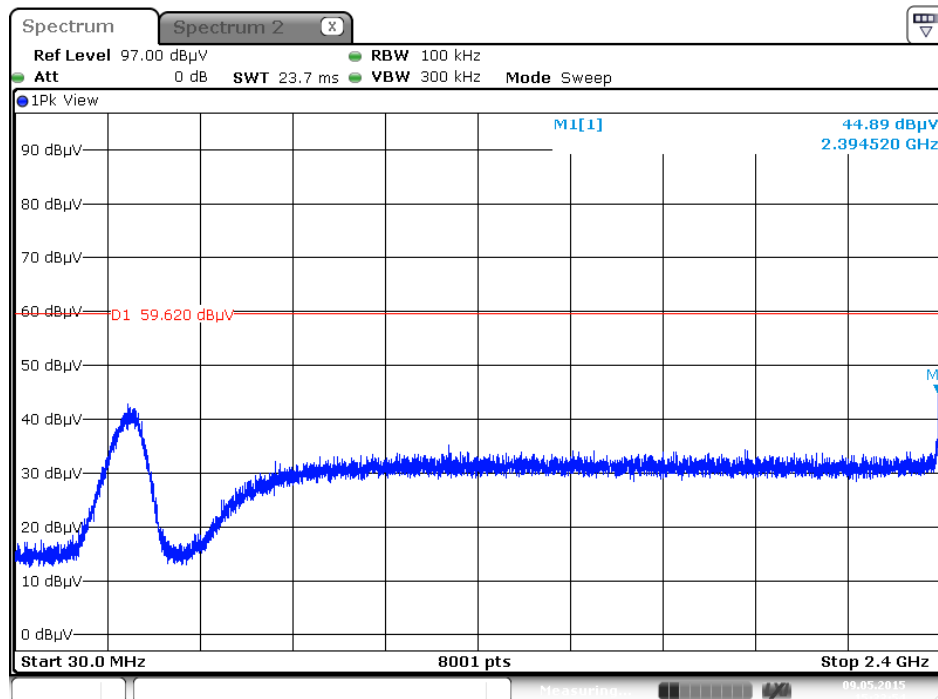
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11g / Reference Level (Vertical)



Date: 9 MAY 2015 15:31:35

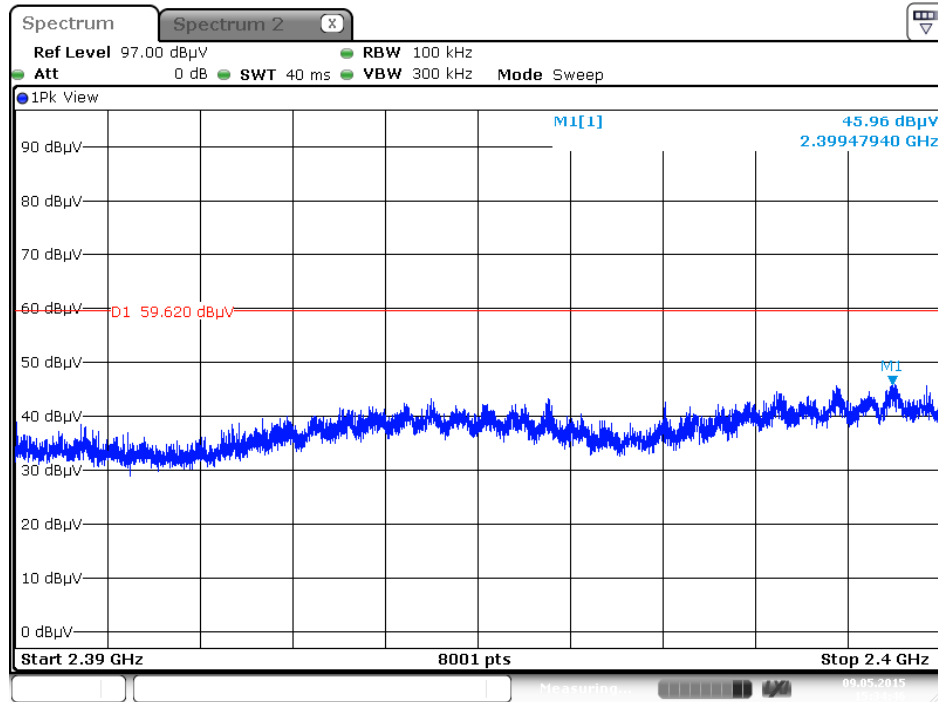
Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc) (Vertical)



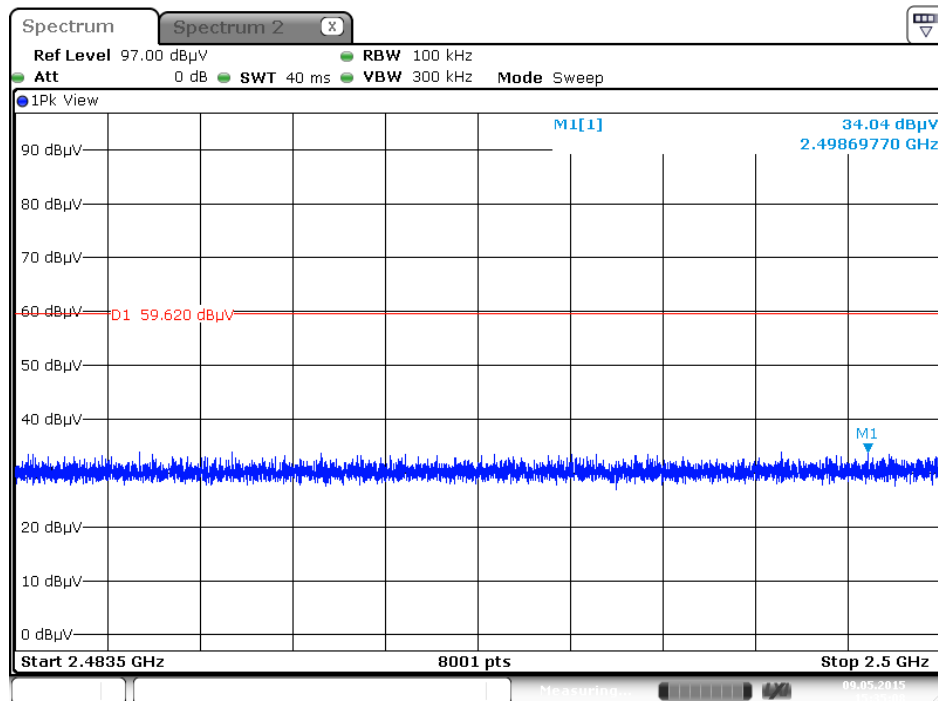
Date: 9 MAY 2015 15:33:54

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11g / CH 1 / 2390MHz~2400MHz (down 30dBc) (Vertical)

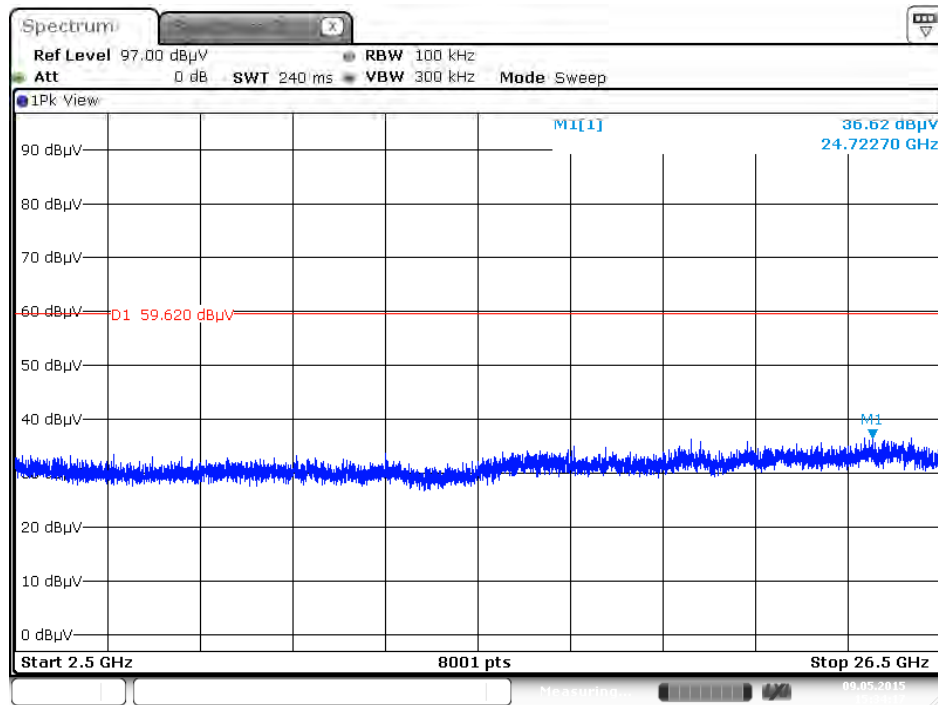


Plot on Configuration IEEE 802.11g / CH 1 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)

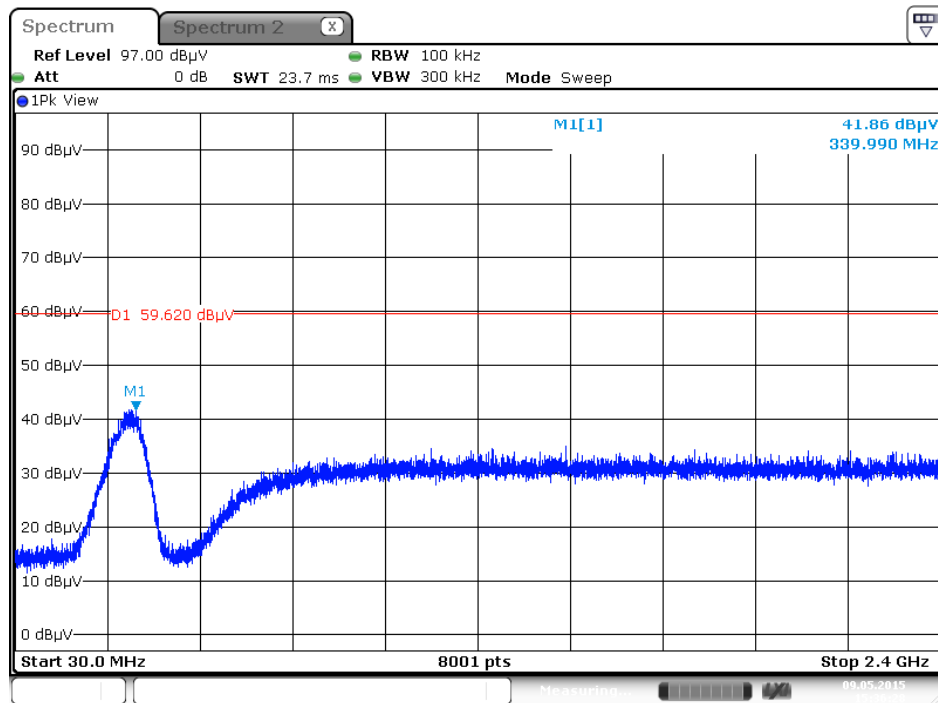


Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc) (Vertical)

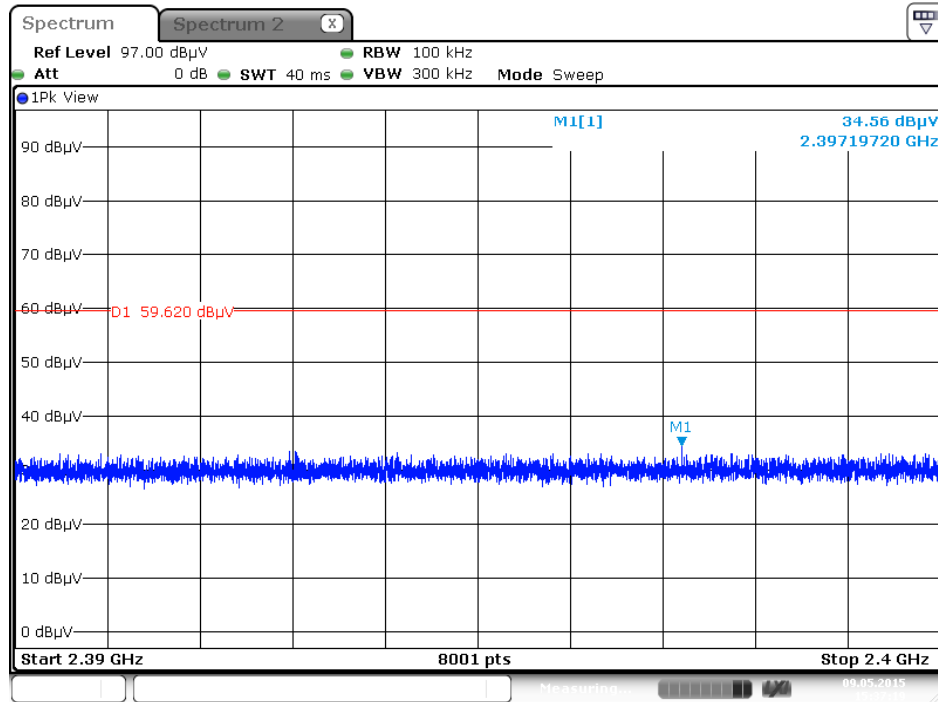


Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc) (Vertical)



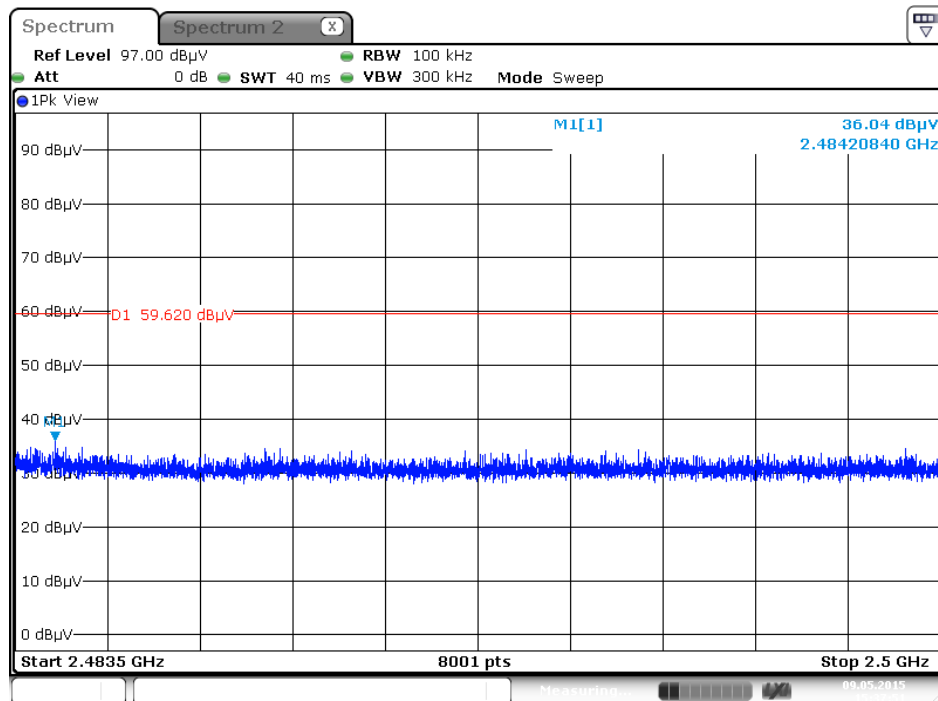
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11g / CH 11 / 2390MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:37:20

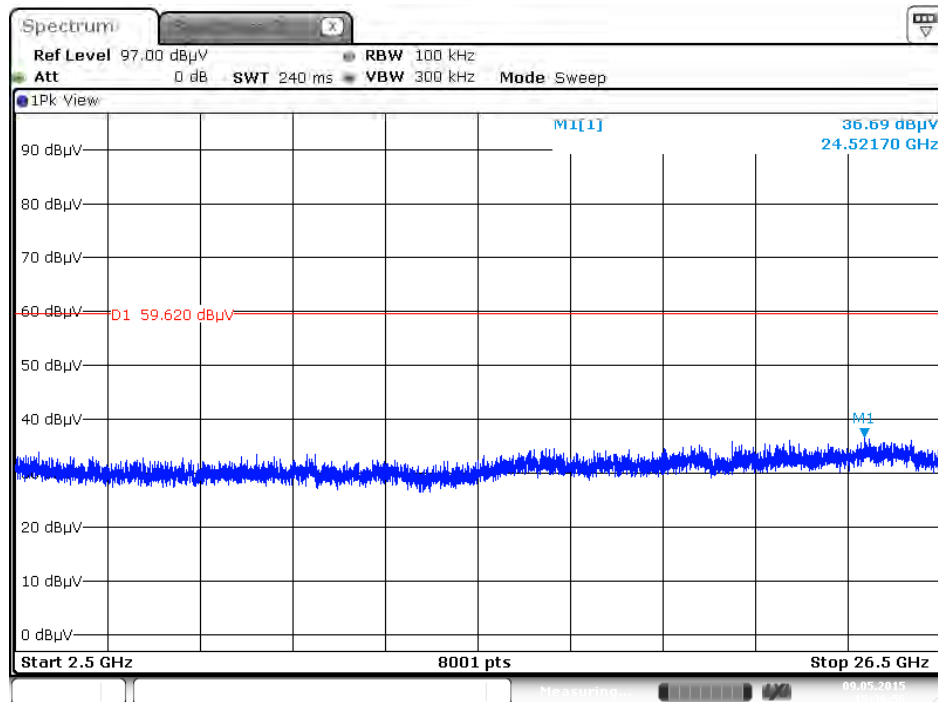
Plot on Configuration IEEE 802.11g / CH 11 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



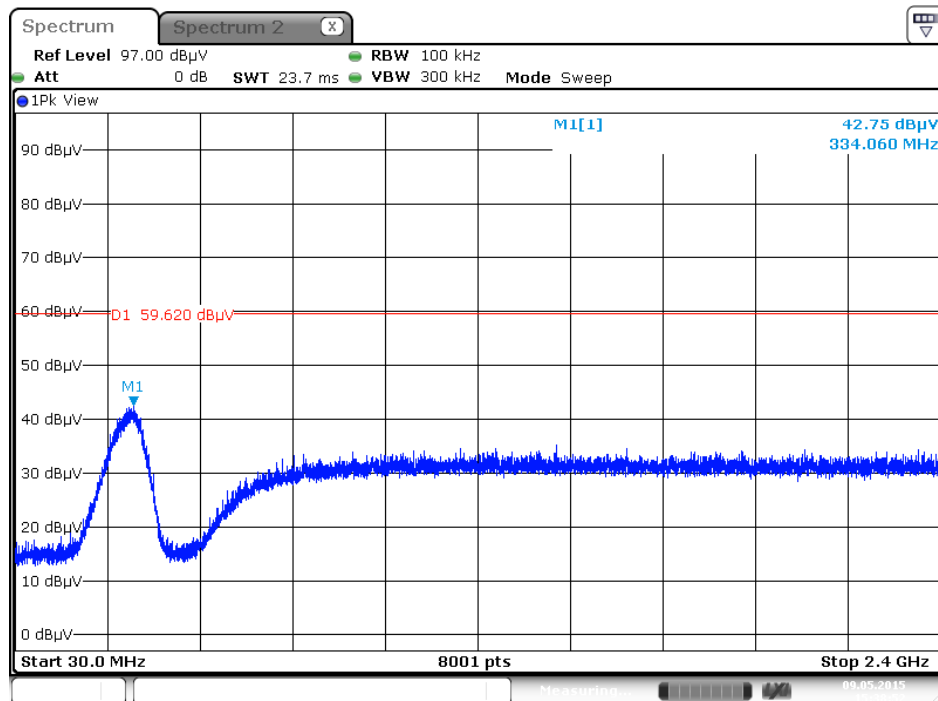
Date: 9 MAY 2015 15:37:51

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc) (Vertical)

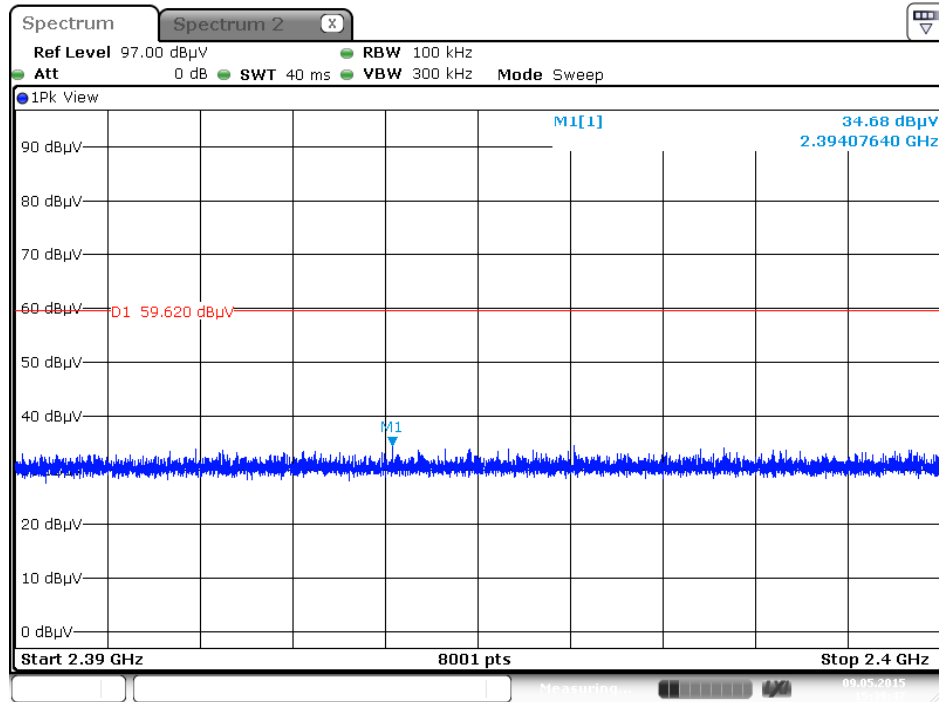


Plot on Configuration IEEE 802.11g / CH 12 / 30MHz~2400MHz (down 30dBc) (Vertical)



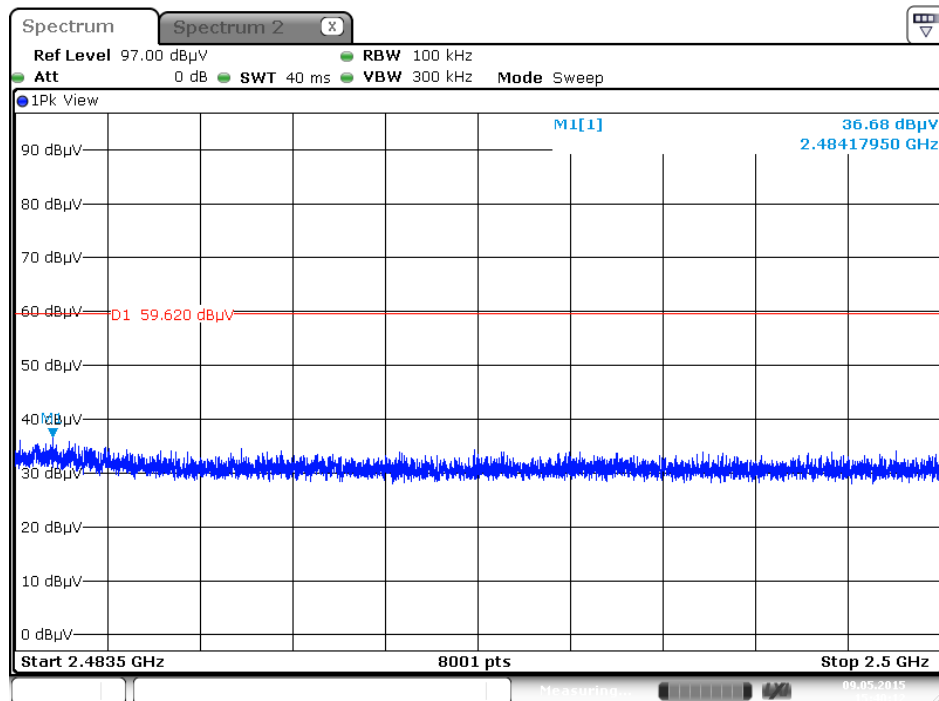
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11g / CH 12 / 2390MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:39:47

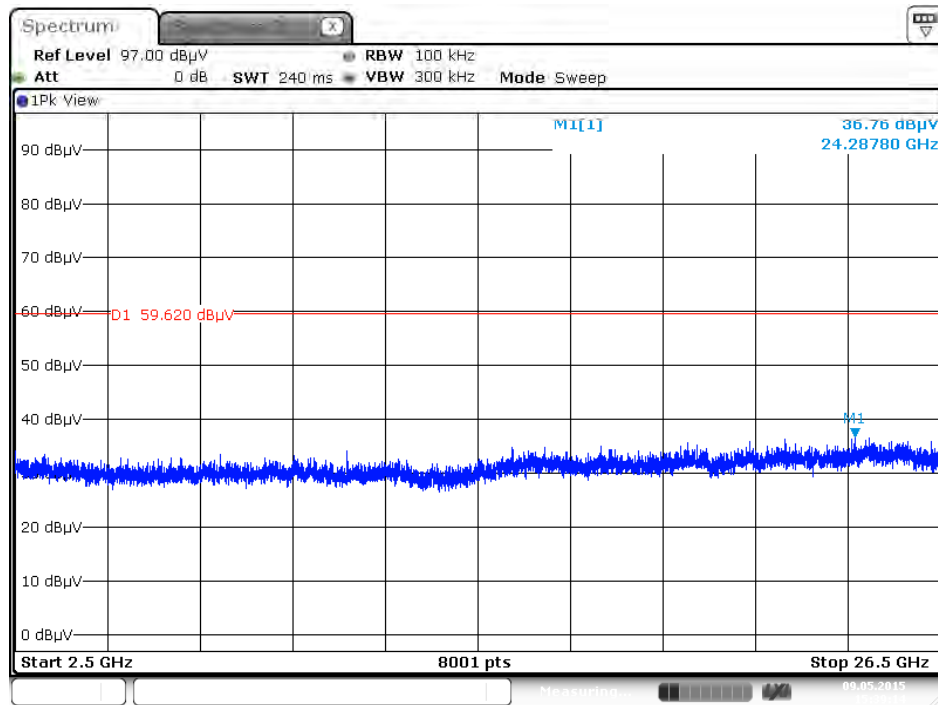
Plot on Configuration IEEE 802.11g / CH 12 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:40:12

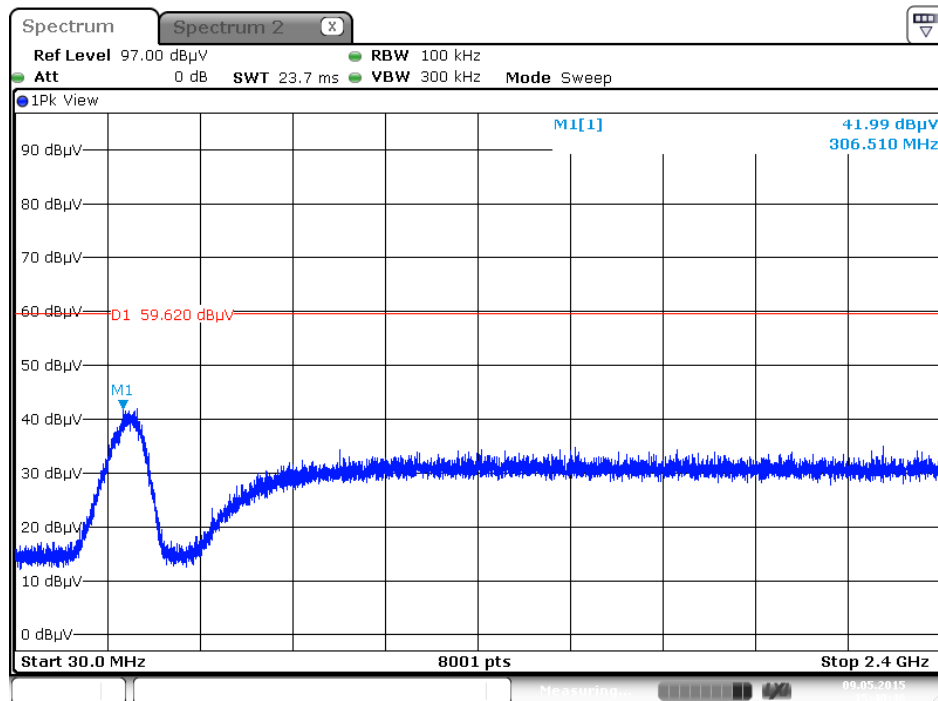
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11g / CH 12 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:39:14

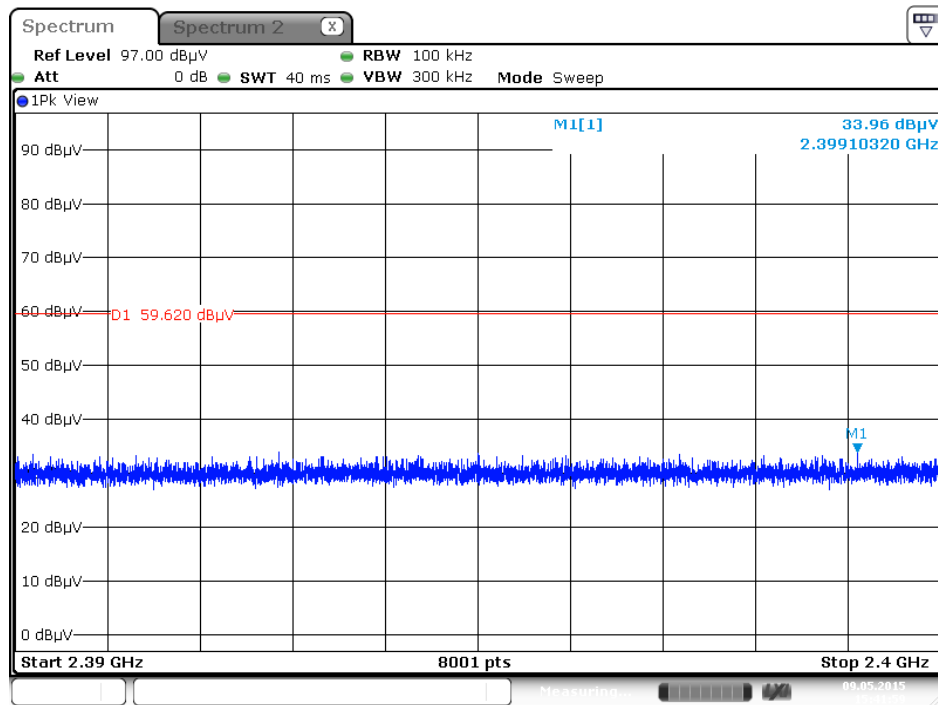
Plot on Configuration IEEE 802.11g / CH 13 / 30MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:40:46

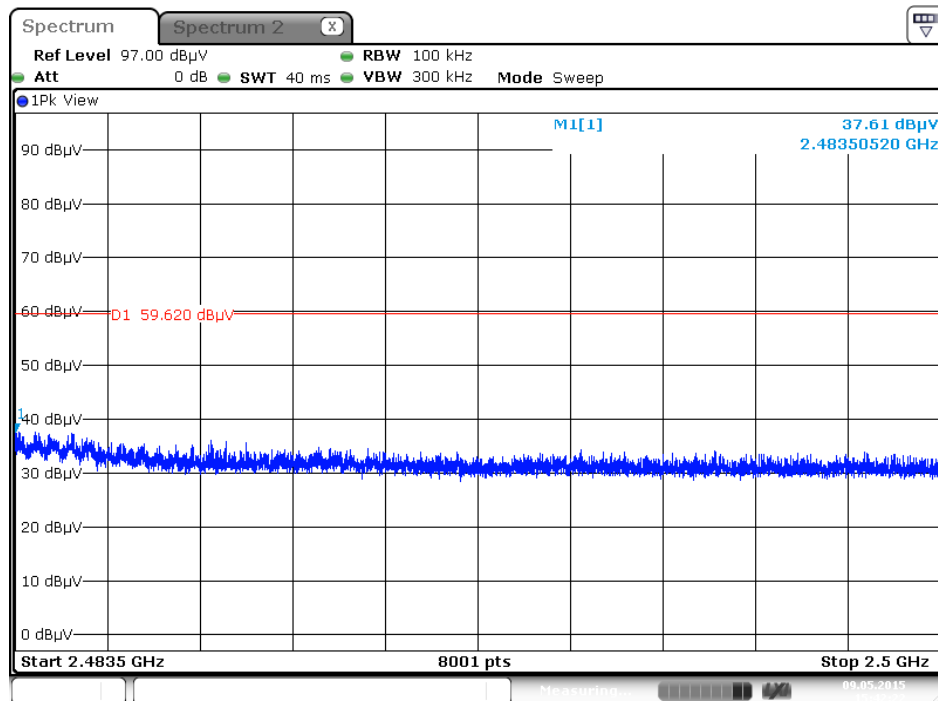
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11g / CH 13 / 2390MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:42:00

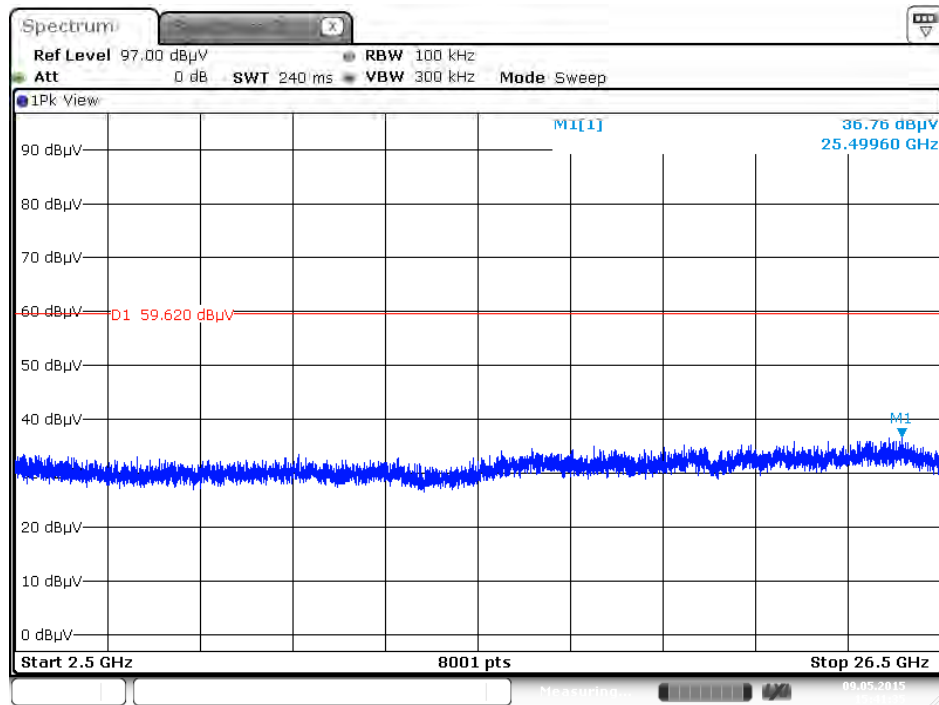
Plot on Configuration IEEE 802.11g / CH 13 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:42:22

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

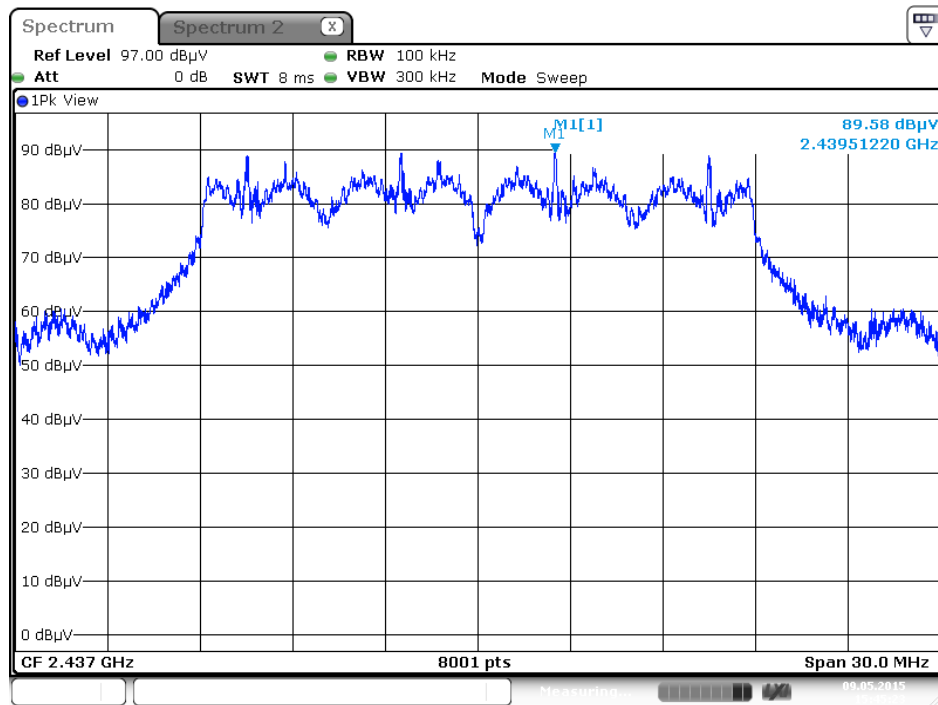
Plot on Configuration IEEE 802.11g / CH 13 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:41:35

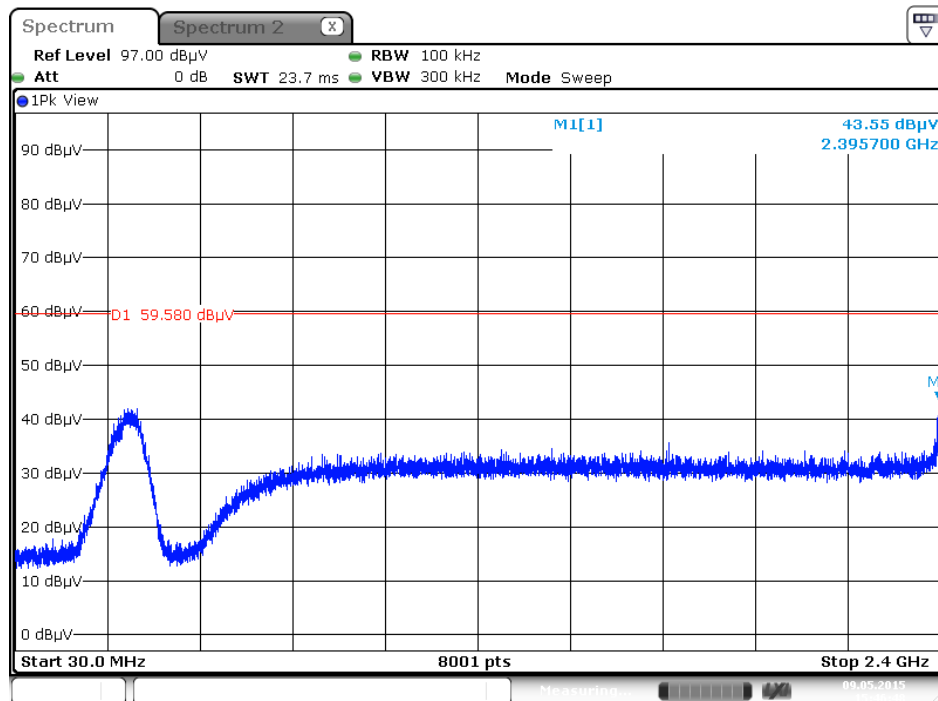
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT20 / Reference Level (Vertical)



Date: 9 MAY 2015 15:45:23

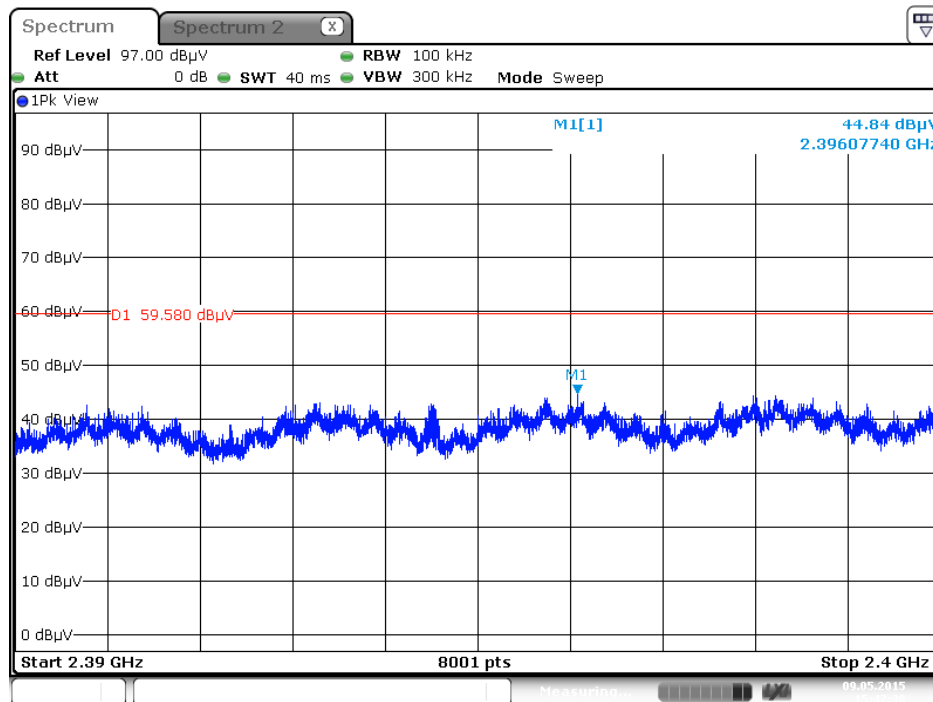
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 30MHz~2400MHz (down 30dBc) (Vertical)



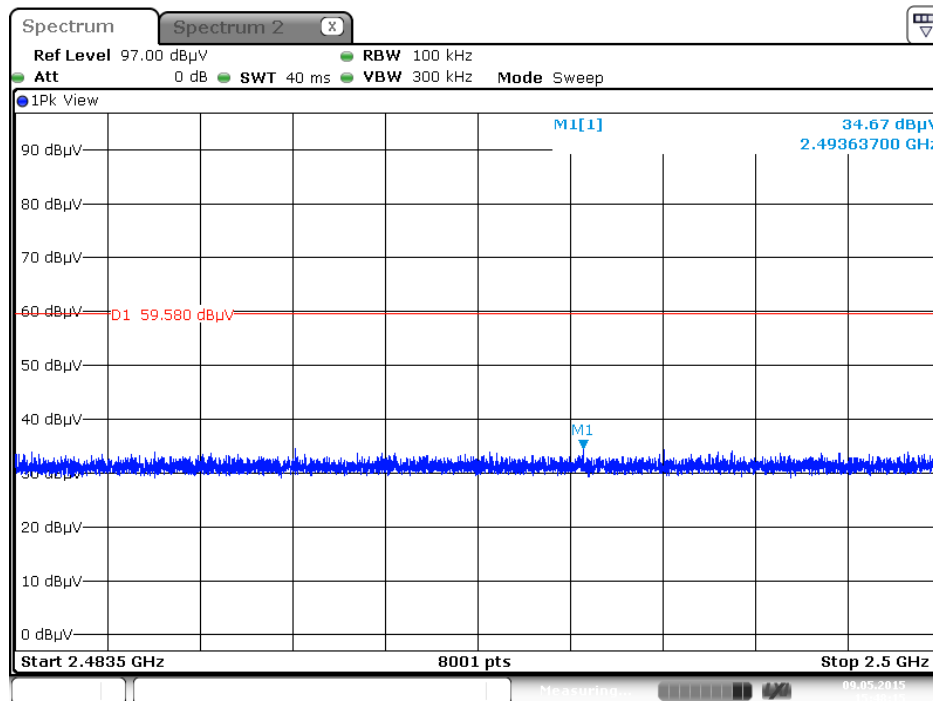
Date: 9 MAY 2015 15:46:48

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 2390MHz~2400MHz (down 30dBc) (Vertical)

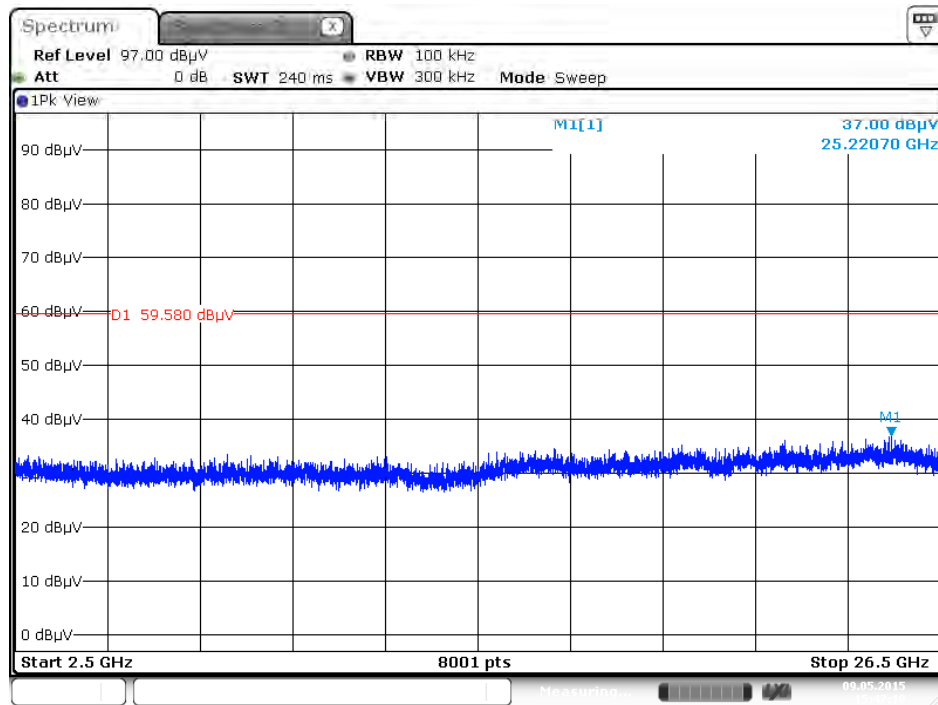


Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



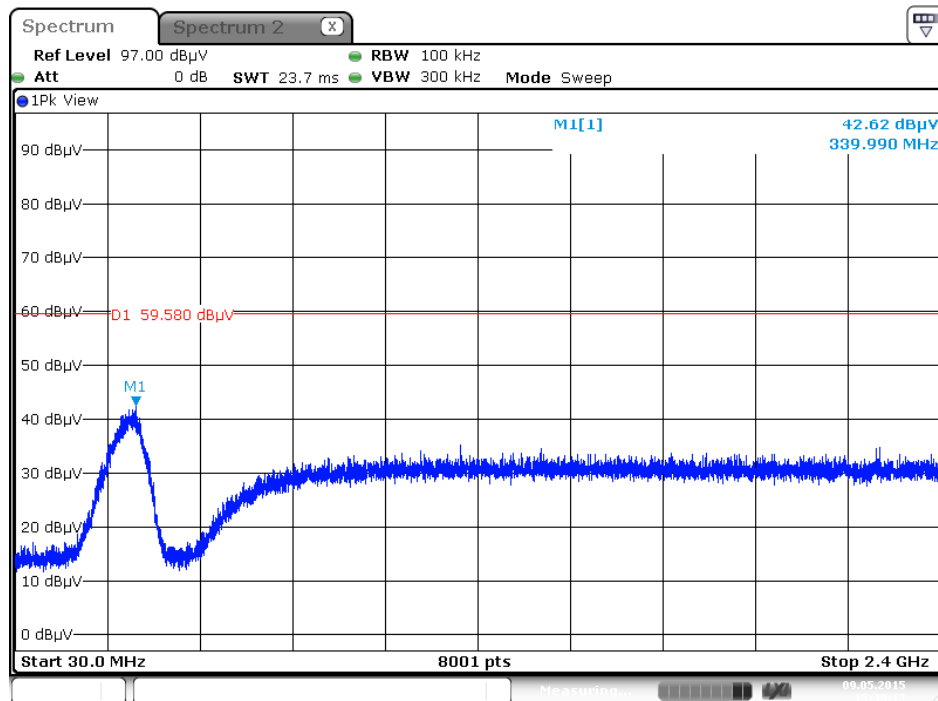
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:47:10

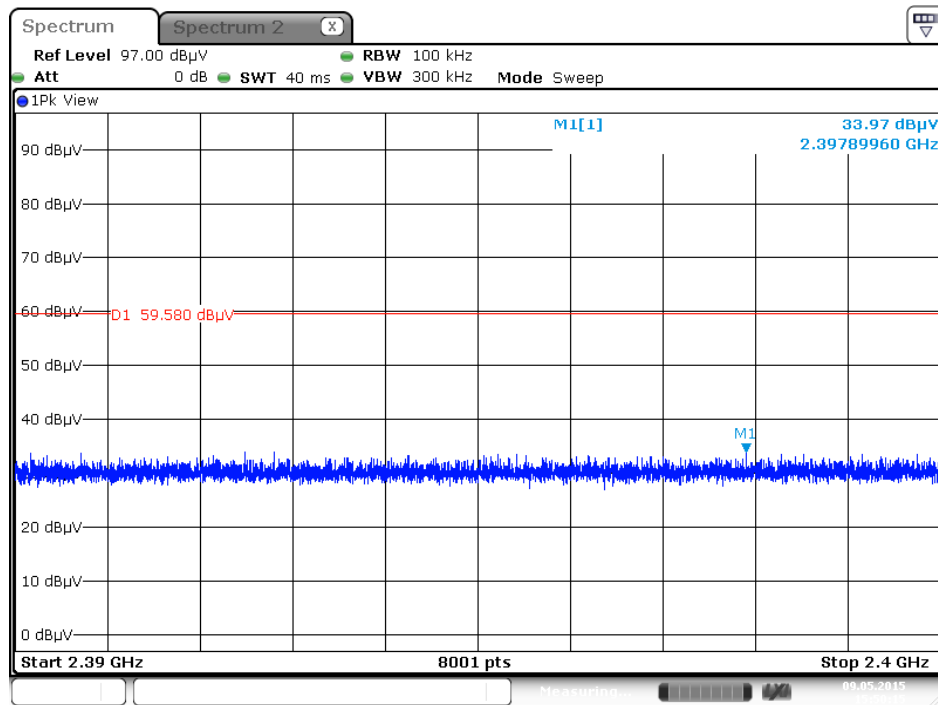
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 30MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:49:12

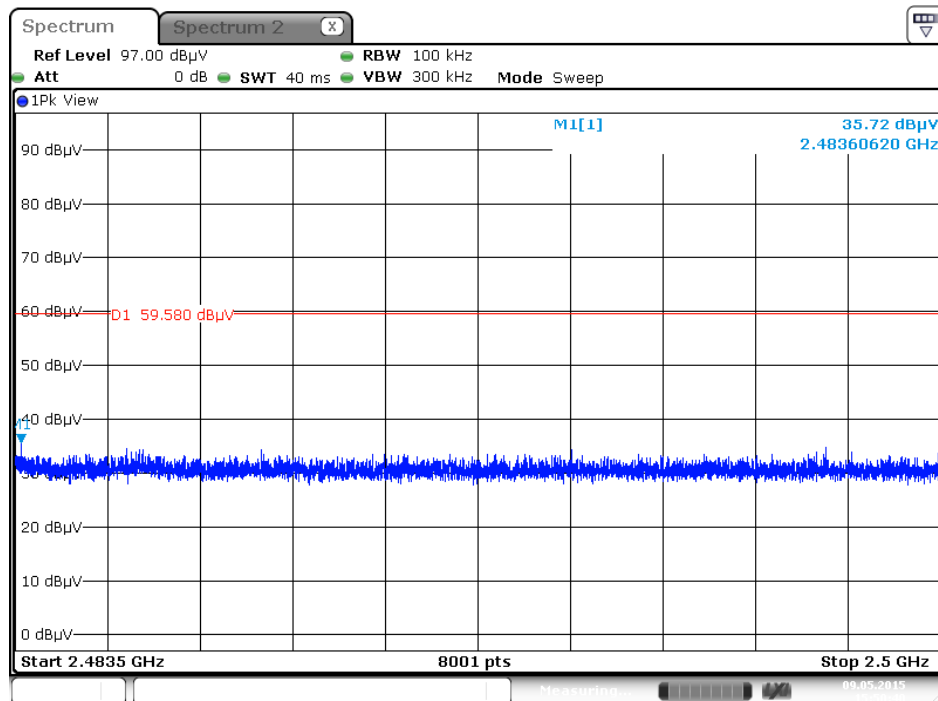
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 2390MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:50:15

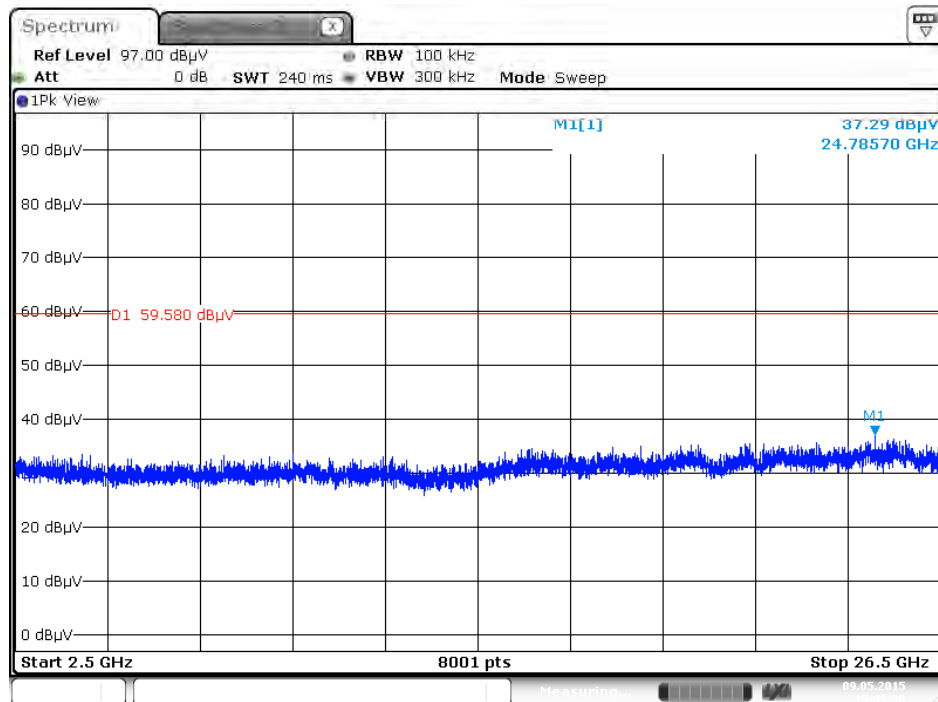
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:50:41

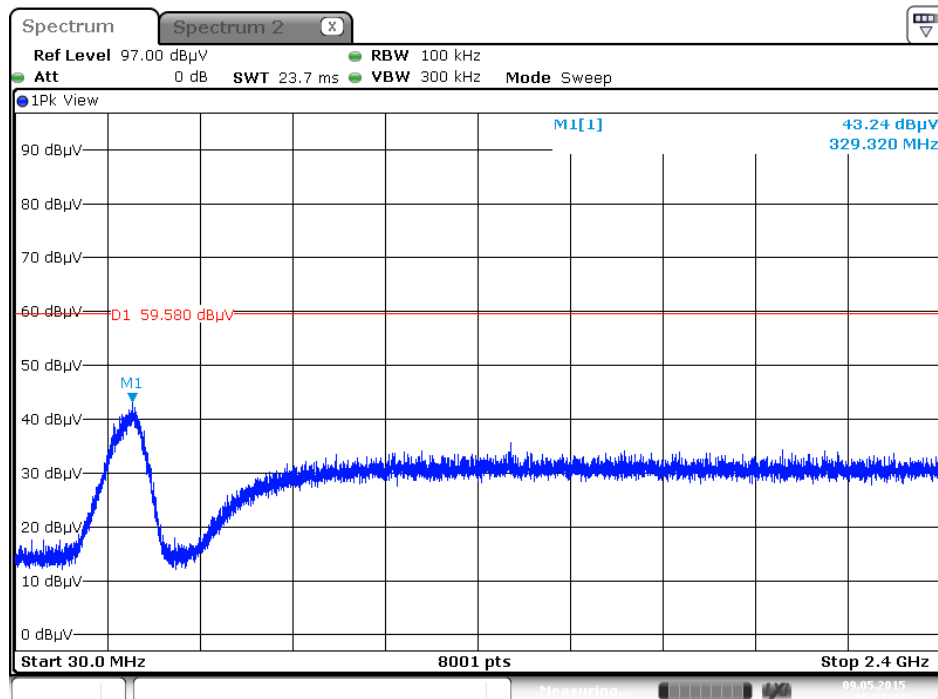
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:49:38

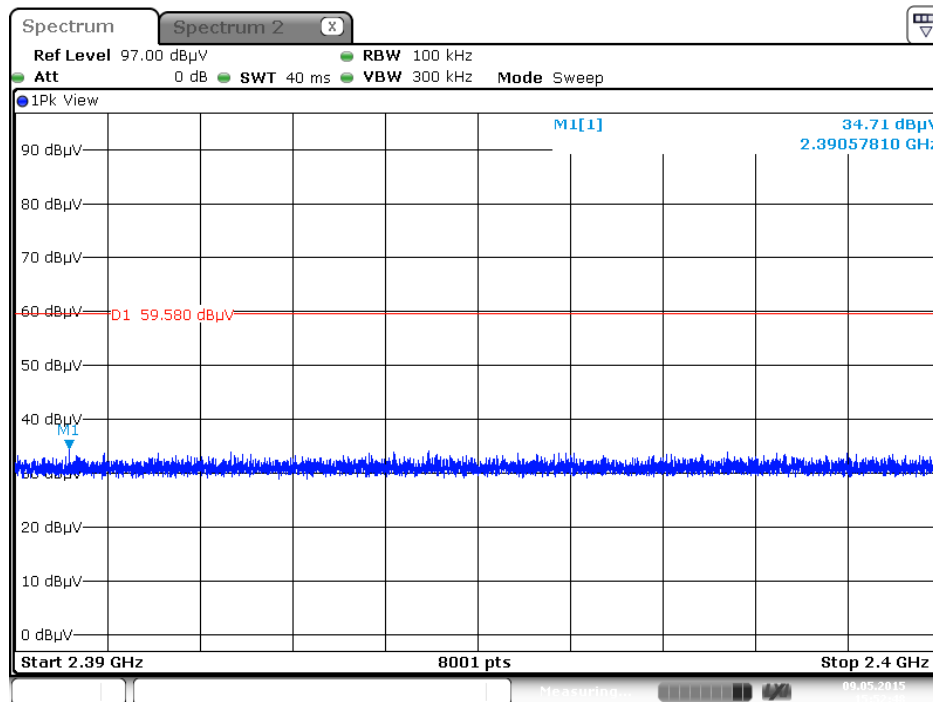
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 12 / 30MHz~2400MHz (down 30dBc) (Vertical)



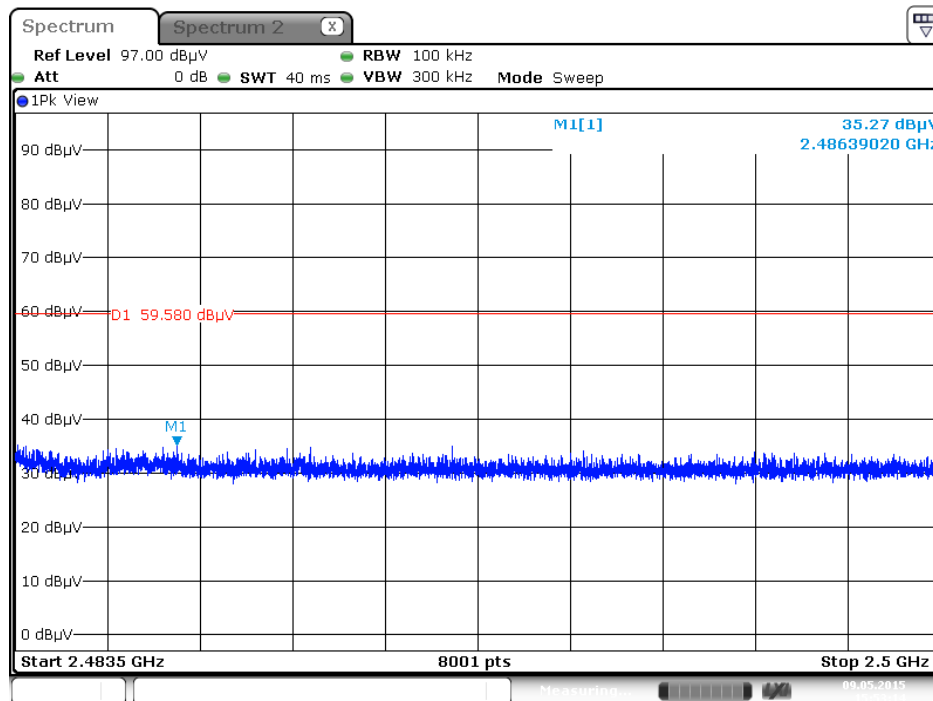
Date: 9 MAY 2015 15:51:45

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 12 / 2390MHz~2400MHz (down 30dBc) (Vertical)

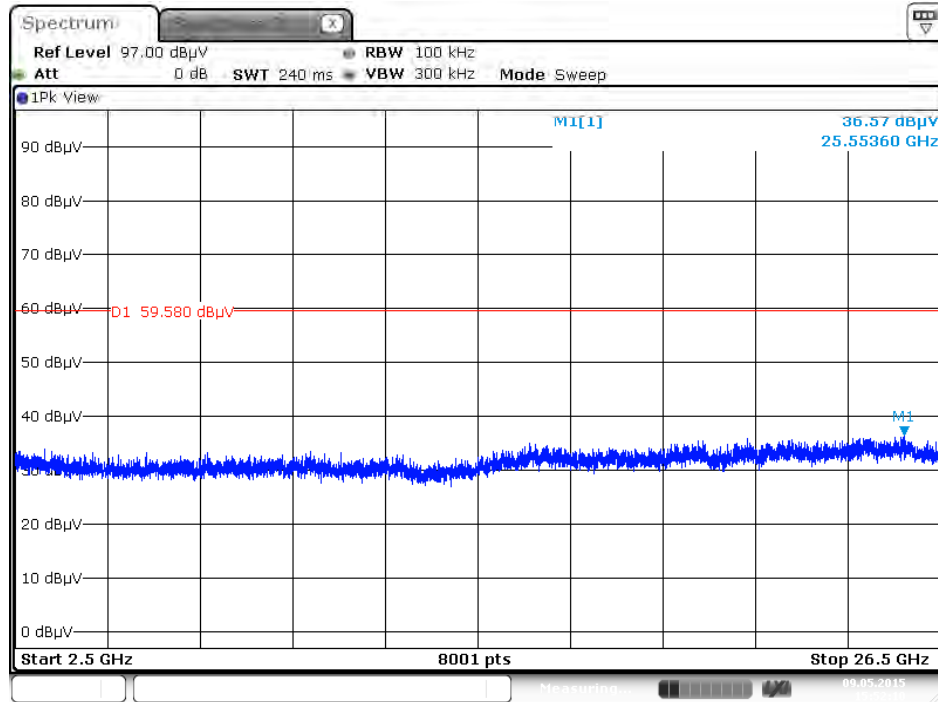


Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 12 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



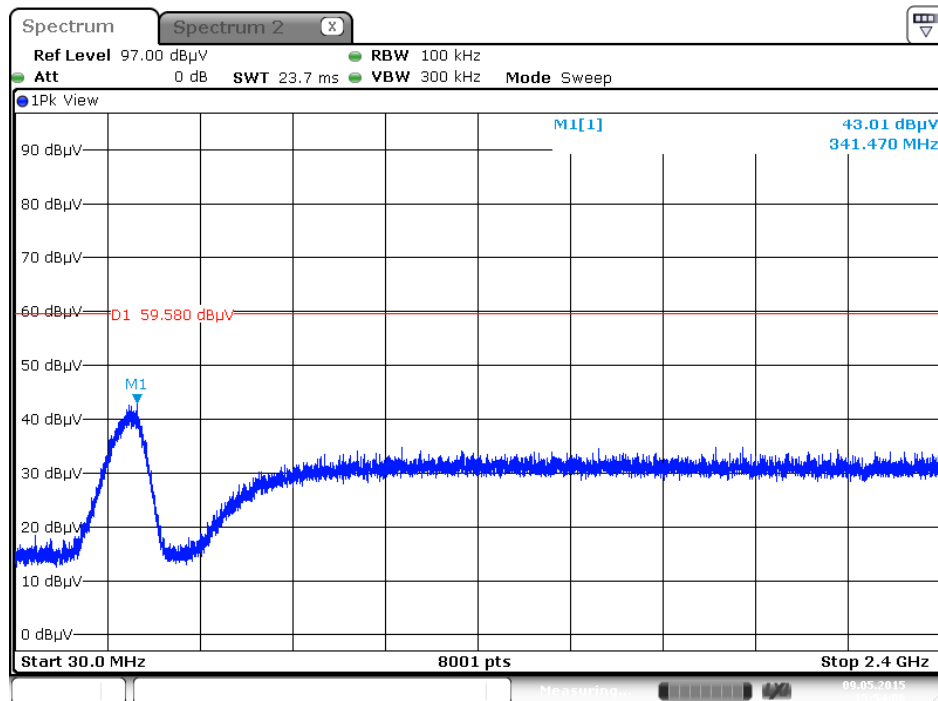
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 12 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:52:11

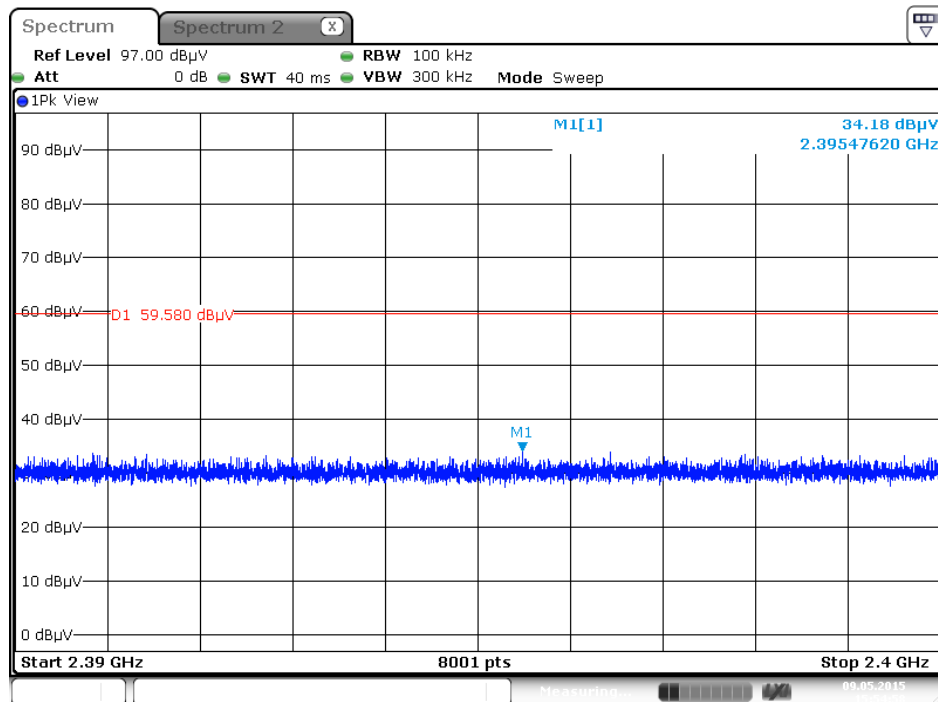
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 13 / 30MHz~2400MHz (down 30dBc) (Vertical)



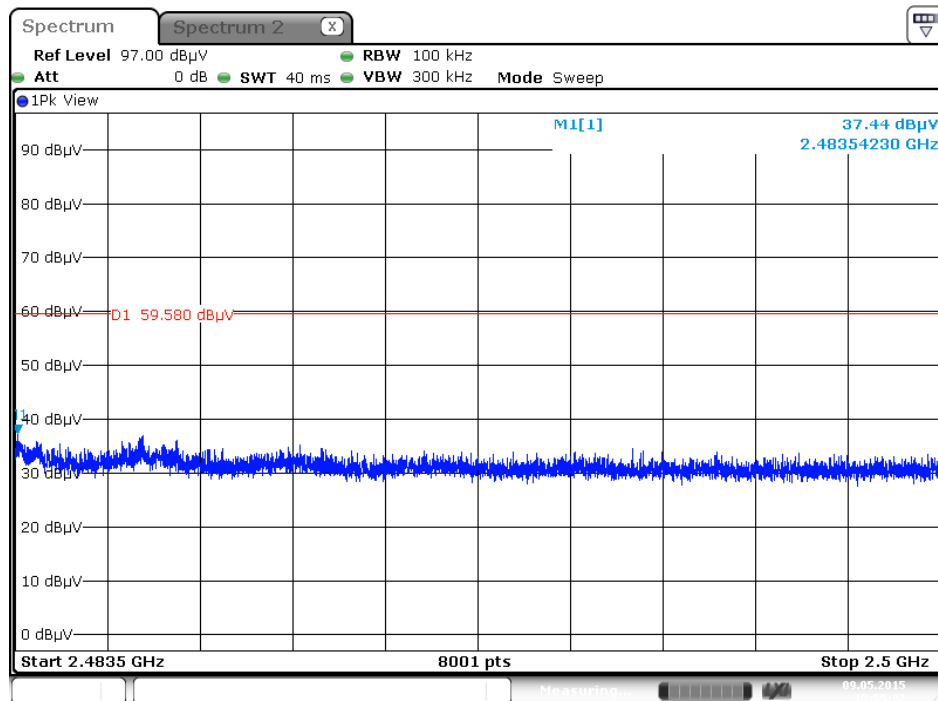
Date: 9 MAY 2015 15:54:06

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 13 / 2390MHz~2400MHz (down 30dBc) (Vertical)

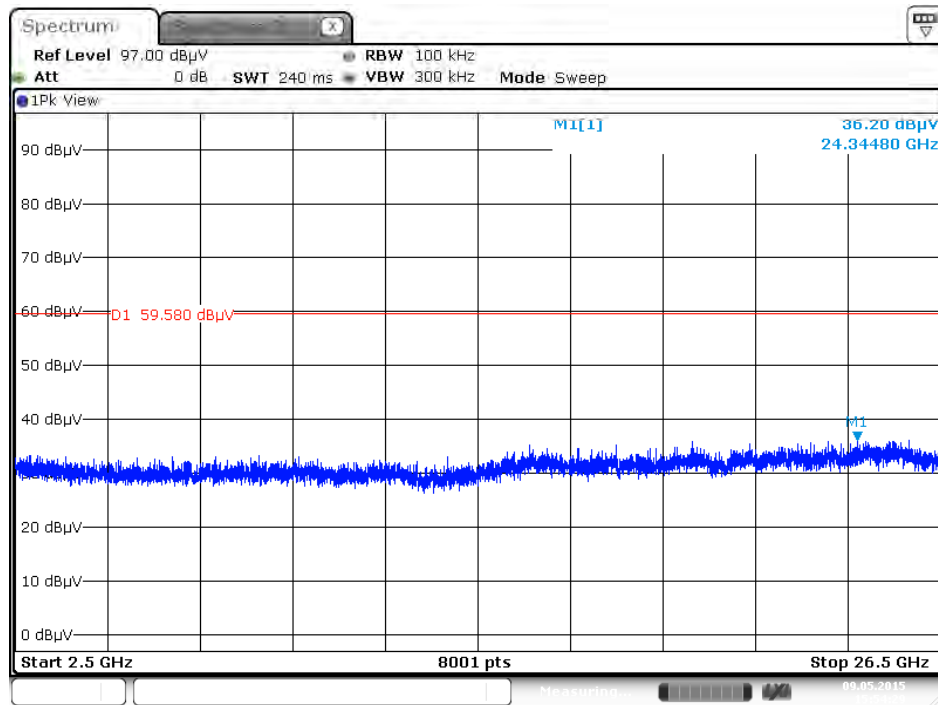


Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 13 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



Note: Only the worse polarization (Vertical) is tested and recorded in test report.

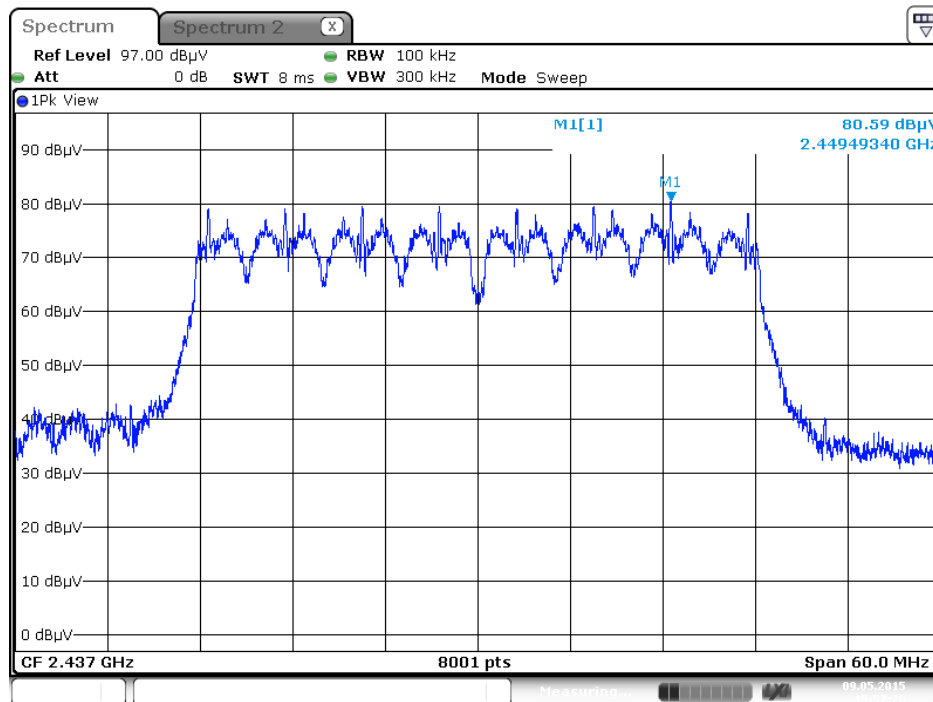
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 13 / 2500MHz~26500MHz (down 30dBc) (Vertical)



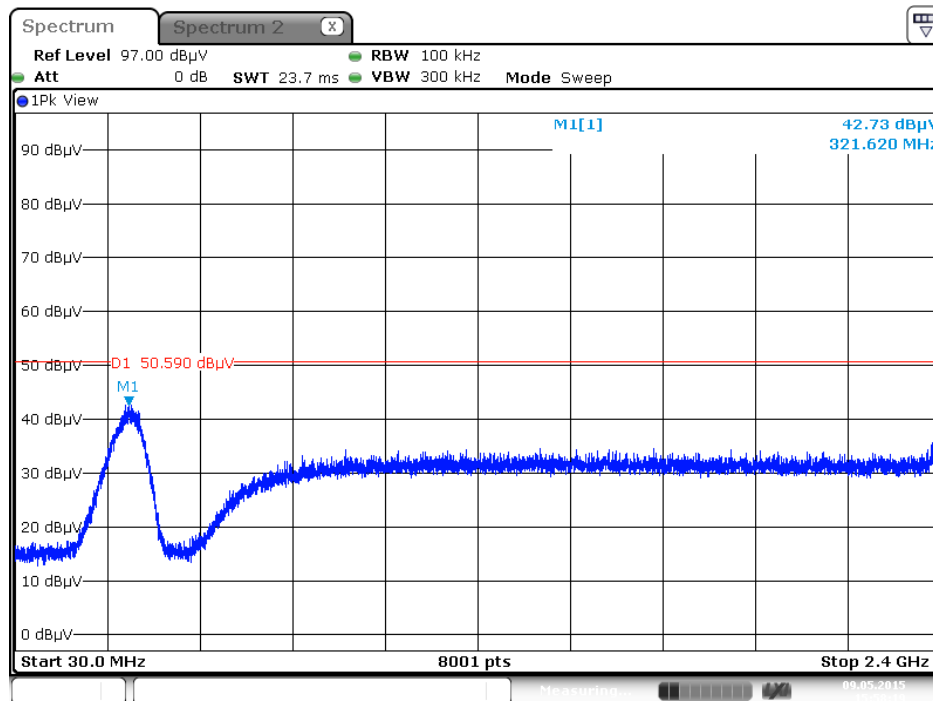
Date: 9 MAY 2015 15:54:30

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / Reference Level (Vertical)

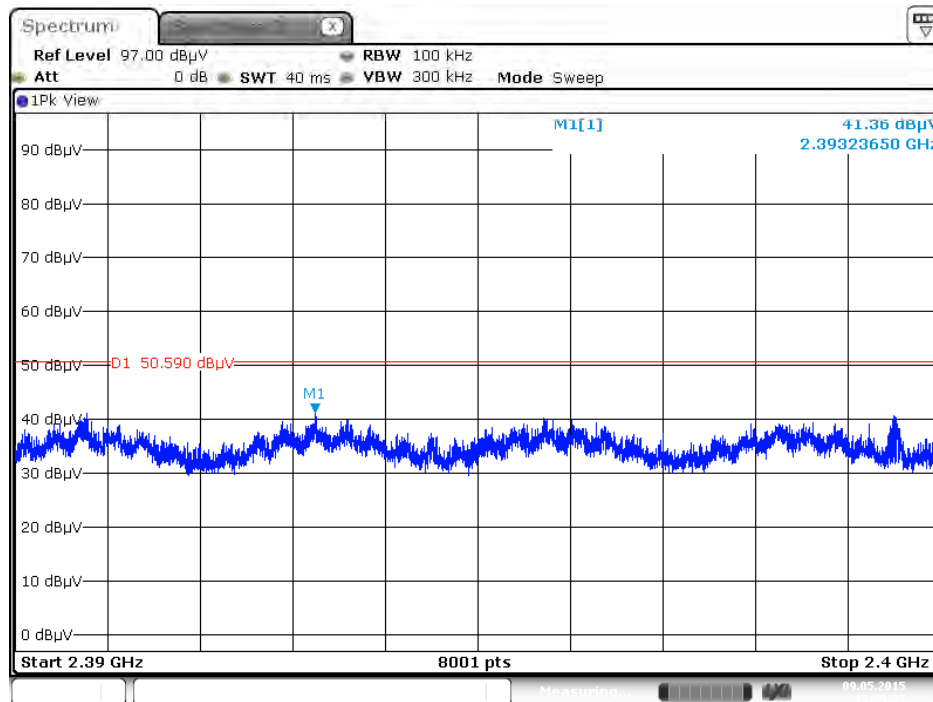


Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 30MHz~2400MHz (down 30dBc) (Vertical)

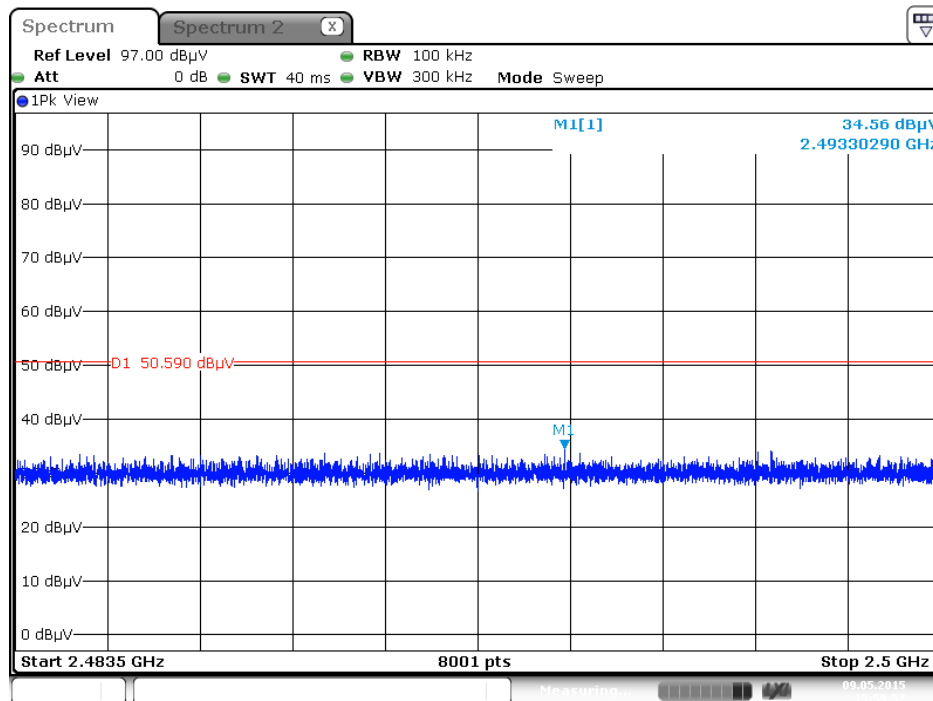


Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 2390MHz~2400MHz (down 30dBc) (Vertical)

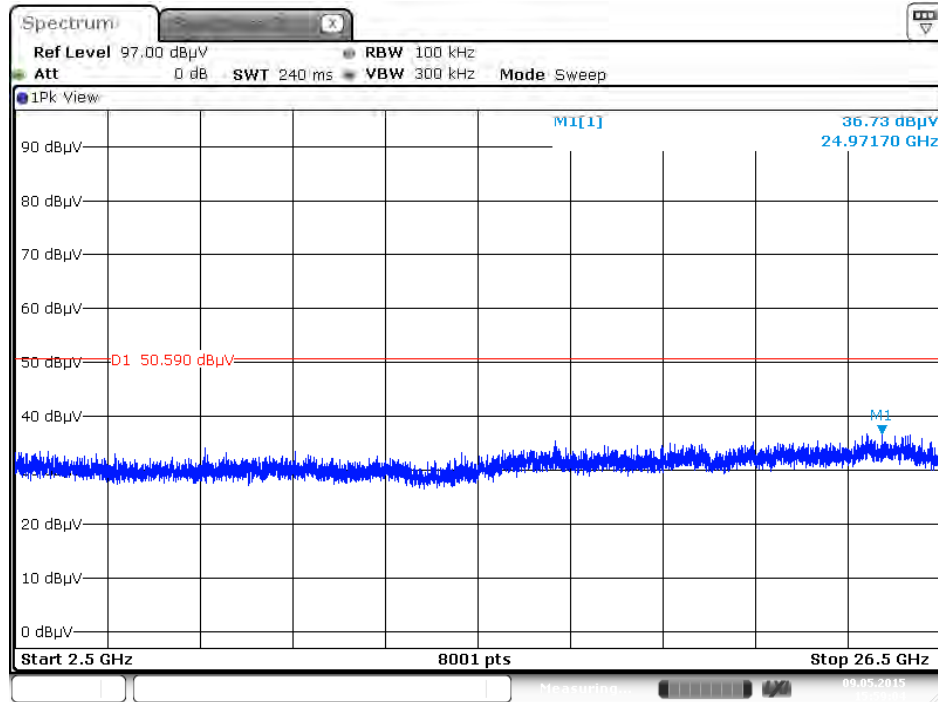


Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



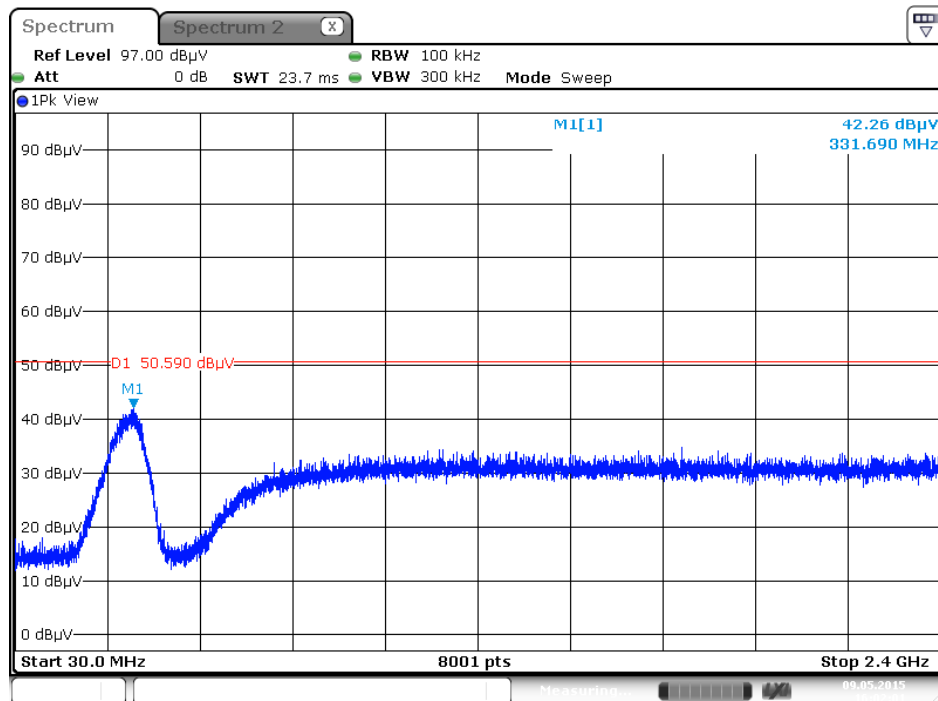
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 15:59:04

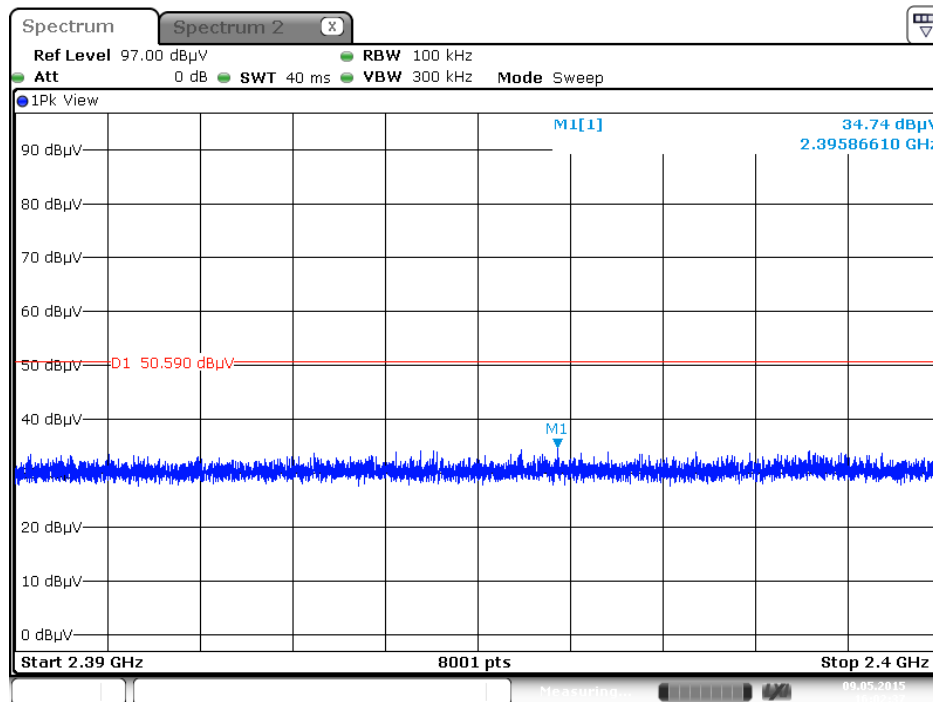
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 30MHz~2400MHz (down 30dBc) (Vertical)



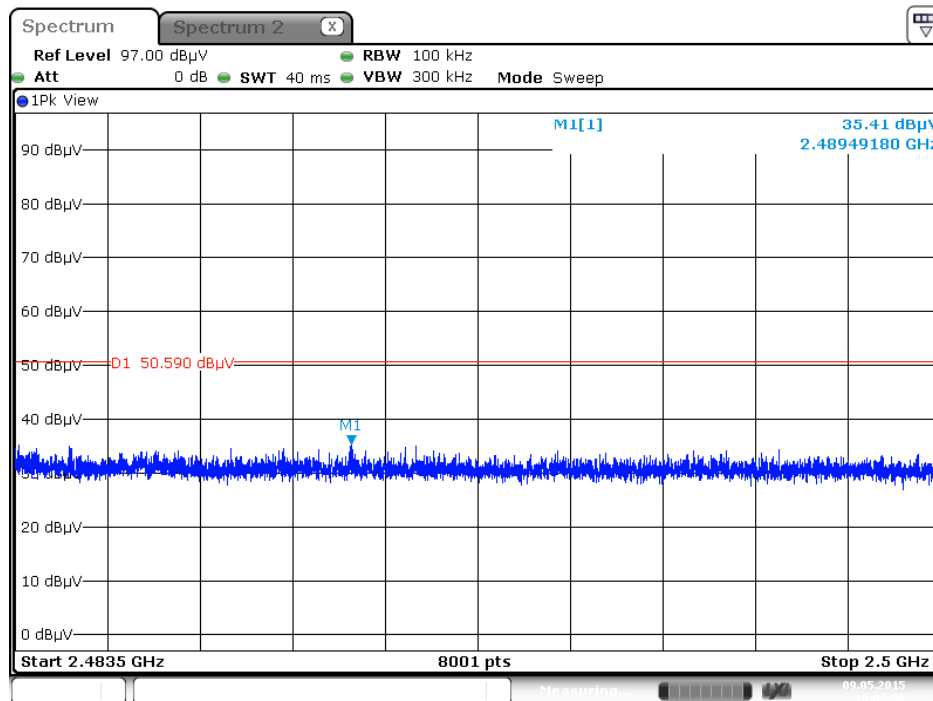
Date: 9 MAY 2015 16:02:00

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 2390MHz~2400MHz (down 30dBc) (Vertical)

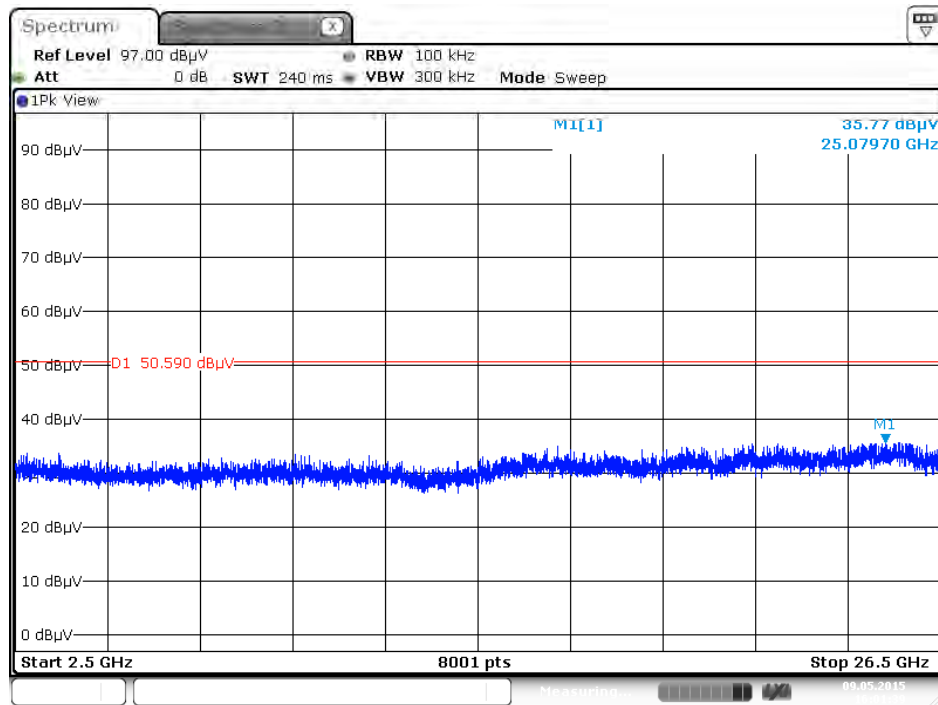


Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



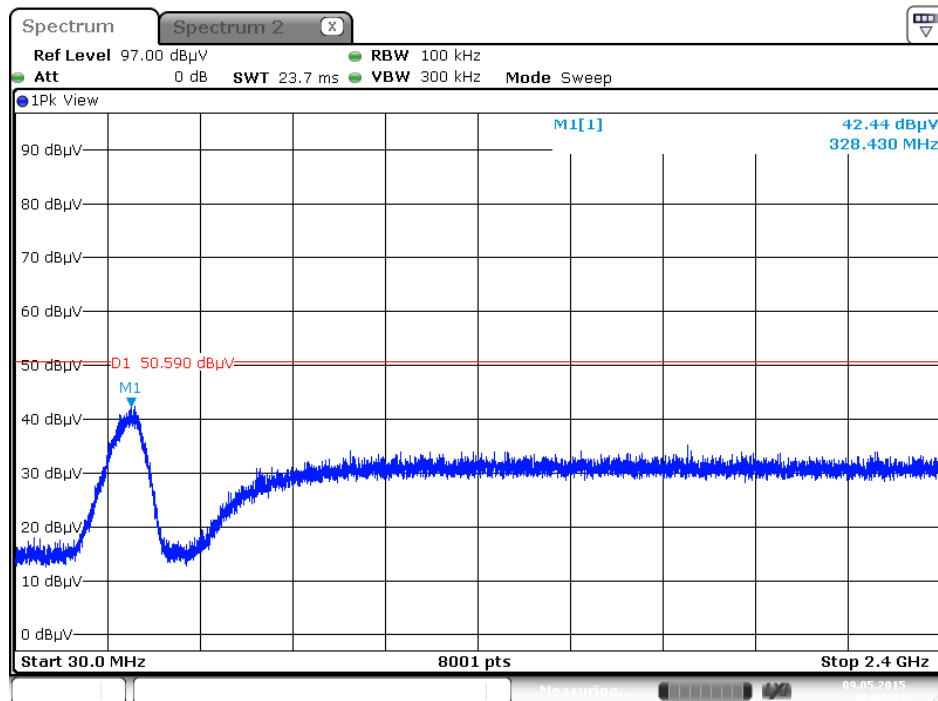
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 16:01:39

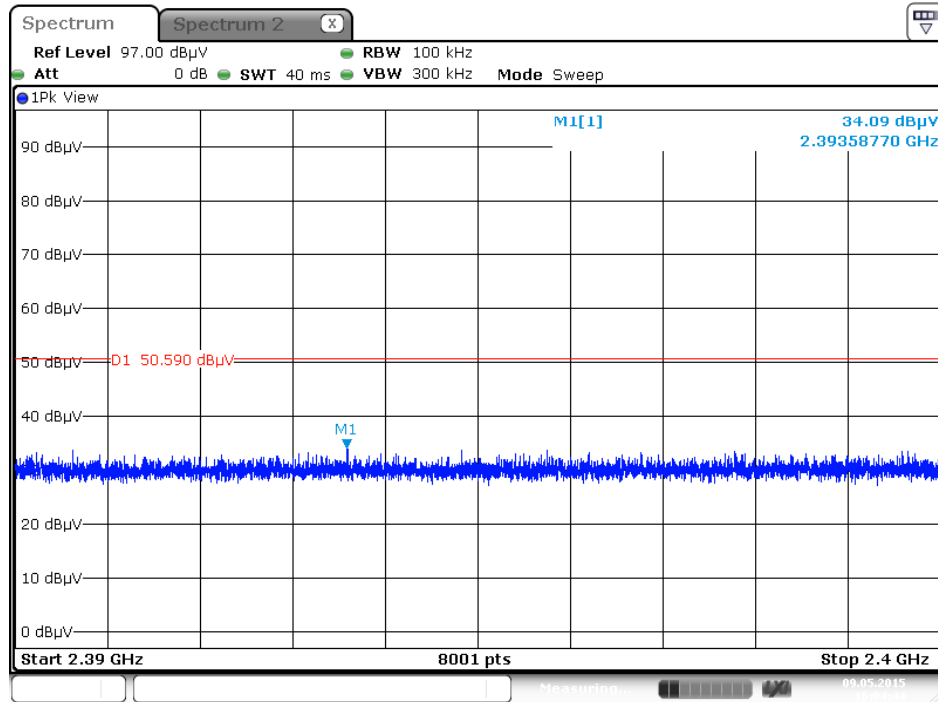
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 10 / 30MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 16:03:39

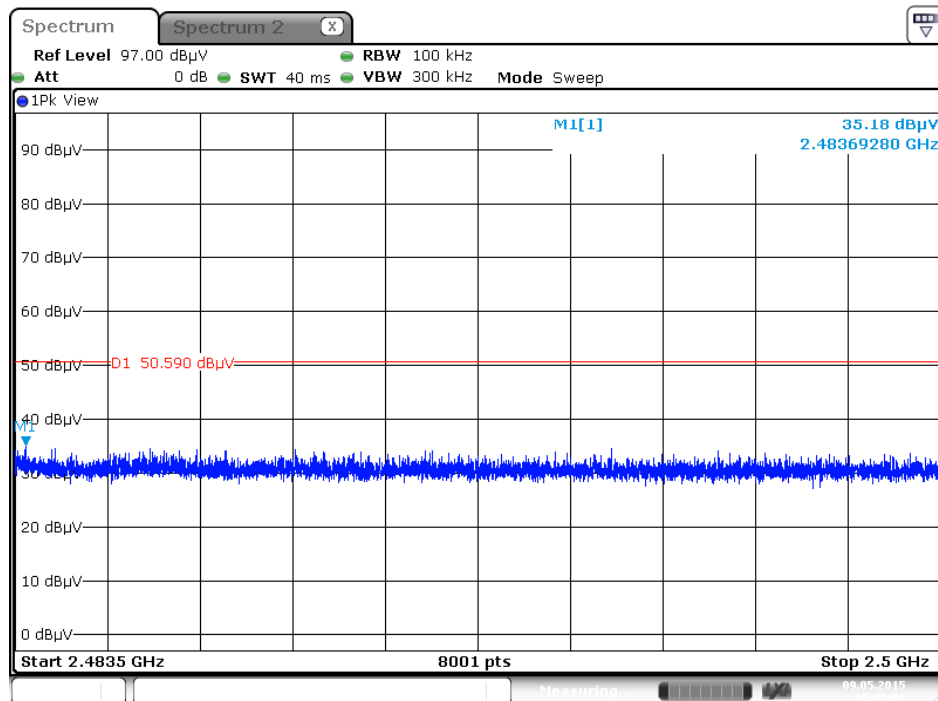
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 10 / 2390MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 16:04:44

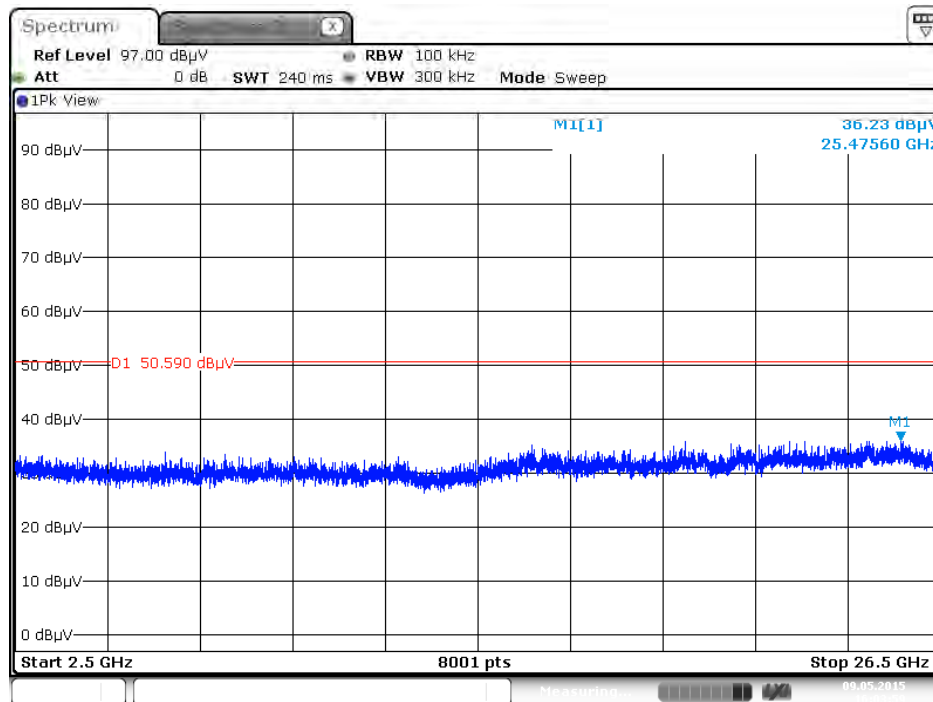
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 10 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



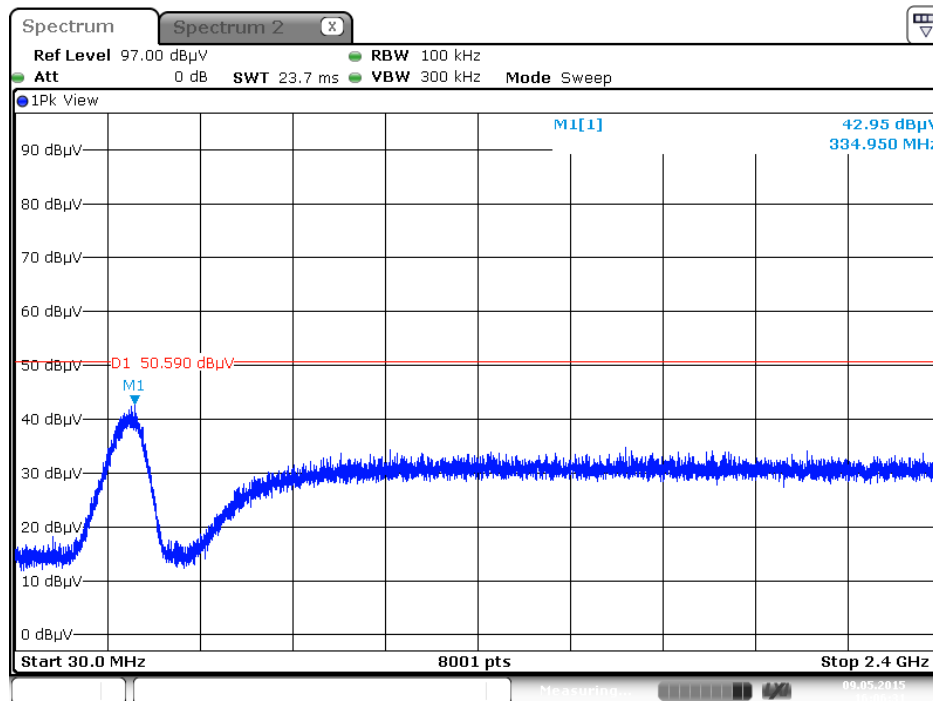
Date: 9 MAY 2015 16:05:07

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 10 / 2500MHz~26500MHz (down 30dBc) (Vertical)

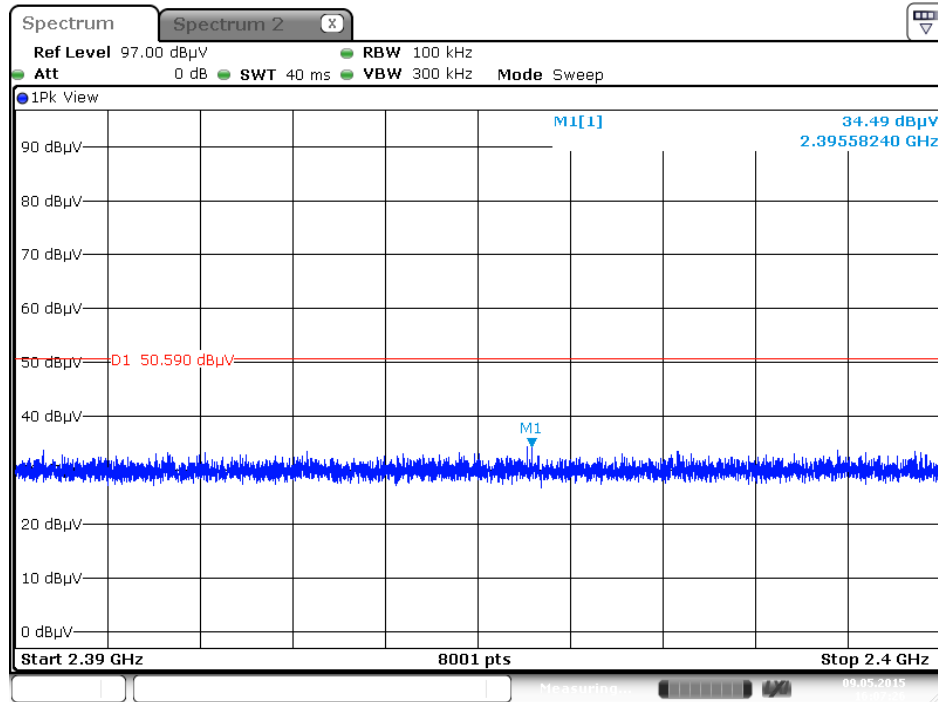


Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 11 / 30MHz~2400MHz (down 30dBc) (Vertical)



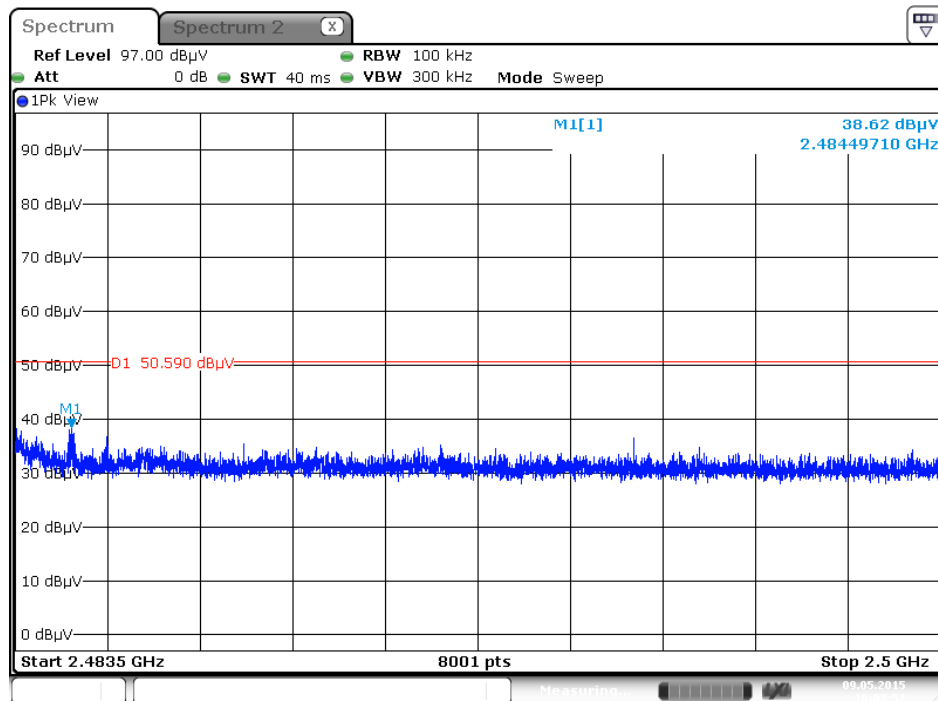
Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 11 / 2390MHz~2400MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 16:07:26

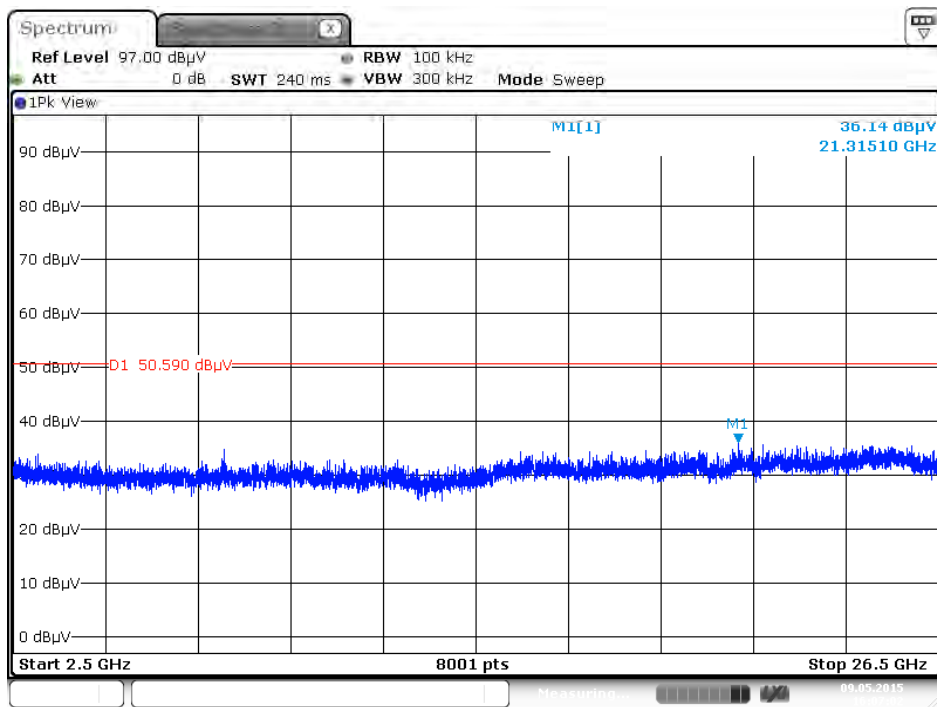
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 11 / 2483.5MHz~2500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 16:07:51

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 11 / 2500MHz~26500MHz (down 30dBc) (Vertical)



Date: 9 MAY 2015 16:07:02

Note: Only the worse polarization (Vertical) is tested and recorded in test report.

4.3. Antenna Requirements

4.3.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.3.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
BILOG ANTENNA	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	May 26, 2014	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 28, 2014	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2014	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 06, 2014	Radiation (03CH01-CB)
EMI Test Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8GHz	Jan. 21, 2015	Radiation (03CH01-CB)
Turn Table	INN CO	CO 2000	N/A	0 ~ 360 degree	N.C.R.	Radiation (03CH01-CB)
Antenna Mast	INN CO	CO 2000	N/A	1 m ~ 4 m	N.C.R.	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
Thermometer	HTC-1	HTC-1	TP-1	-50°C~70°C	Mar. 11, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015	Radiation (03CH01-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%