



SPORTON International Inc.

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FCC RADIO TEST REPORT

Applicant's company	Realtek Semiconductor Corp.
Applicant Address	No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan
FCC ID	TX2-RTL8195AM
Manufacturer's company	Realtek Semiconductor Corp.
Manufacturer Address	No. 2, Innovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan

Product Name	802.11 b/g/n Wireless LAN+NFC module
Brand Name	REALTEK
Model No.	RTL8195AM
Test Rule	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz
Received Date	Feb. 20, 2016
Final Test Date	Mar. 02, 2016
Submission Type	Original Equipment

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.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

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 C63.10-2013, 47 CFR FCC Part 15 Subpart C, KDB558074 D01 v03r04.

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



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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR621718	Rev. 01	Initial issue of report	Mar. 18, 2016



1. VERIFICATION OF COMPLIANCE

Product Name : 802.11 b/g/n Wireless LAN+NFC module
Brand Name : REALTEK
Model No. : RTL8195AM
Applicant : Realtek Semiconductor Corp.
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 Feb. 20, 2016 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.

A handwritten signature in blue ink, appearing to read 'Sam Chen', is written over a horizontal line.

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	15.207	AC Power Line Conducted Emissions	Complies	11.91 dB
4.2	15.247(b)(3)	Maximum Conducted Output Power	Complies	12.65 dB
4.3	15.247(e)	Power Spectral Density	Complies	20.37 dB
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.5	15.247(d)	Radiated Emissions	Complies	2.24 dB
4.6	15.247(d)	Band Edge Emissions	Complies	0.89 dB
4.7	15.203	Antenna Requirements	Complies	-

3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Product Type	WLAN (1TX, 1RX)
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
Channel Band Width (99%)	IEEE 802.11b: 14.59 MHz IEEE 802.11g: 16.93 MHz IEEE 802.11n MCS0 (HT20): 17.97 MHz IEEE 802.11n MCS0 (HT40): 37.05 MHz
Maximum Conducted Output Power	IEEE 802.11b: 17.35 dBm IEEE 802.11g: 16.12 dBm IEEE 802.11n MCS0 (HT20): 16.27 dBm IEEE 802.11n MCS0 (HT40): 13.32 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

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

Antenna and Band width

Antenna	Single (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)	1	MCS 0-7
802.11n (HT40)	1	MCS 0-7

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

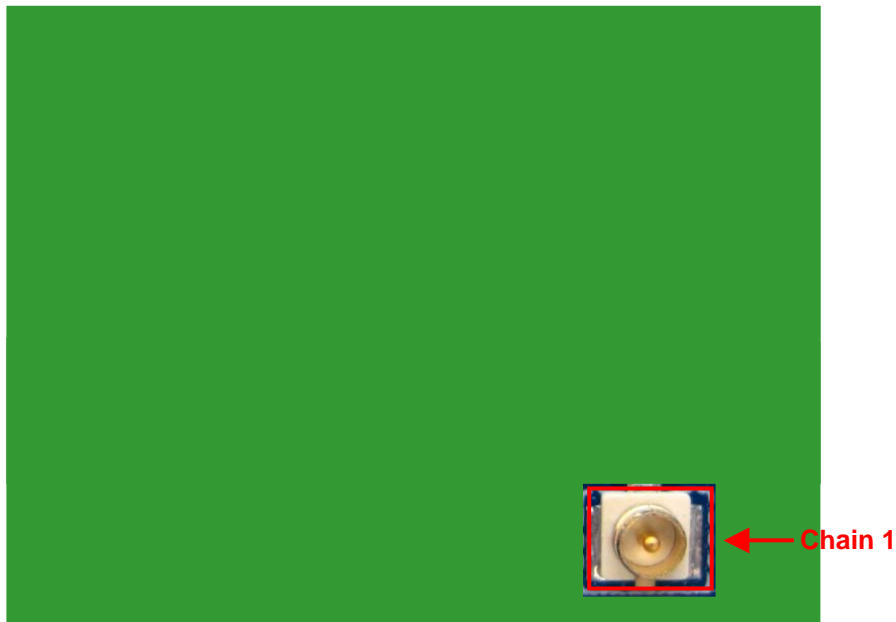
Ant.	Brand	Model Name (P/N)	Antenna Type	Connector	Gain (dBi)
1	JOYMAX	TWF-614XMPXX-500	Dipole antenna	I-PEX	3
2	LYNwave	ALA110-222050-300010	PIFA antenna	I-PEX	3.5
3	REALTEK	Ameba-AM0001	Printed antenna	N/A	2

Note: The EUT has three types of antenna.

Only the highest antenna gain for each type has been recorded in this test report, please refer to antenna list for more antenna information.

For IEEE 802.11b/g/n mode (1TX/1RX):

Only Chain 1 can be used as transmitting antenna and receiving antenna.



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
AC Power Line Conducted Emissions	Normal Link	-	-	-
Maximum Conducted Output Power	11b/CCK	1 Mbps	1/6/11/12/13	1
	11g/BPSK	6 Mbps	1/6/11/12/13	1
	11n HT20	MCS0	1/6/11/12/13	1
	11n HT40	MCS0	3/6/9/10/11	1
Power Spectral Density	11b/CCK	1 Mbps	1/6/11/12/13	1
	11g/BPSK	6 Mbps	1/6/11/12/13	1
	11n HT20	MCS0	1/6/11/12/13	1
	11n HT40	MCS0	3/6/9/10/11	1
6dB Spectrum Bandwidth	11b/CCK	1 Mbps	1/6/11/12/13	1
	11g/BPSK	6 Mbps	1/6/11/12/13	1
	11n HT20	MCS0	1/6/11/12/13	1
	11n HT40	MCS0	3/6/9/10/11	1
Radiated Emissions 9kHz~1GHz	Normal Link	-	-	-
Radiated Emissions 1GHz~10 th Harmonic	11b/CCK	1 Mbps	1/6/11/12/13	1
	11g/BPSK	6 Mbps	1/6/11/12/13	1
	11n HT20	MCS0	1/6/11/12/13	1
	11n HT40	MCS0	3/6/9/10/11	1
Band Edge Emissions	11b/CCK	1 Mbps	1/6/11/12/13	1
	11g/BPSK	6 Mbps	1/6/11/12/13	1
	11n HT20	MCS0	1/6/11/12/13	1
	11n HT40	MCS0	3/6/9/10/11	1

Note 1: For Conducted measurement Test: only the higher gain antenna "Ant.2" was selected to perform the test and recorded in this report.

Note 2: For Radiated measurement Test: all test results were recorded in the report.

The following test modes were performed for all tests:

For Conducted Emission test:

Mode 1. Normal Link - EUT 1 with Ant. 3

Mode 2. Normal Link - EUT 2 with Ant. 2

Mode 3. Normal Link - EUT 2 with Ant. 1

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

For Radiated Emission test <Below 1GHz>:

Mode 1. Normal Link - EUT 1 with Ant. 3 / Z axis

Mode 2. Normal Link - EUT 2 with Ant. 2 / Z axis

Mode 3. Normal Link - EUT 2 with Ant. 1 / Z axis

Mode 3 is the worst case, so it was selected to record in this test report.

For Radiated Emission test <Above 1GHz>:

The EUT can be placed in X axis, Y axis and Z axis. After evaluating, Y-axis was the worst case, so it's recorded in this report.

Mode 1. Normal Link - EUT 1 with Ant. 3 / Y axis

Mode 2. Normal Link - EUT 2 with Ant. 2 / Y axis

Mode 3. Normal Link - EUT 2 with Ant. 1 / Y axis

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
CO01-CB	Conduction	Hsin Chu	262045	IC 4086D
TH01-CB	OVEN Room	Hsin Chu	-	-

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

3.7. Table for EUT Type

The EUT has three EUT type which are identical to each other in all aspects except for the following table:

EUT	EUT Type
1	Printed antenna
2	Dipole / PIFA antenna

3.8. Table for Supporting Units

For Test Site No: 03CH01-CB<Below 1GHz>

Support Unit	Brand	Model	FCC ID
NB	DELL	E4300	DoC
WLAN AP	NETGEAR	WNDR3300v2	PY309300116
Mouse	Logitech	M-U0026	DoC
Earphone	SHYARO CHI	MIC-04	N/A
Test fixture	REALTEK	Ameba adapter	N/A
RFID Resaer	Microsoft	RTL8195AM	N/A

For Test Site No: 03CH01-CB<Above1GHz>

Support Unit	Brand	Model	FCC ID
NB	DELL	E4300	DoC
Test Fixture	Realtek	Ameba adapter	N/A

For Test Site No: CO01-CB

Support Unit	Brand	Model	FCC ID
AP Router	Planex	GW-AP54SGX	KA220030603014-1
NB	DELL	E6430	DoC
Test fixture	REALTEK	Ameba adapter	N/A
Earphone	SHYARO CHI	MIC-04	N/A
Mouse	HP	FM100	DoC
RFID Resaer	Microsoft	RTL8195AM	N/A

For Test Site No: TH01-CB

Support Unit	Brand	Model	FCC ID
NB	DELL	E4300	DoC
Test Fixture	Realtek	Ameba adapter	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.

Test Software Version	UI_mptool									
Mode	Test Frequency (MHz)									
	NCB: 20MHz					NCB: 40MHz				
	2412 MHz	2437 MHz	2462 MHz	2467 MHz	2472 MHz	2422 MHz	2437 MHz	2452 MHz	2457 MHz	2462 MHz
802.11b	34	36	38	37	37	-	-	-	-	-
802.11g	37	44	42	37	29	-	-	-	-	-
802.11n MCS0 HT20	35	44	39	37	25	-	-	-	-	-
802.11n MCS0 HT40	-	-	-	-	-	36	37	38	37	12

3.10. EUT Operation during Test

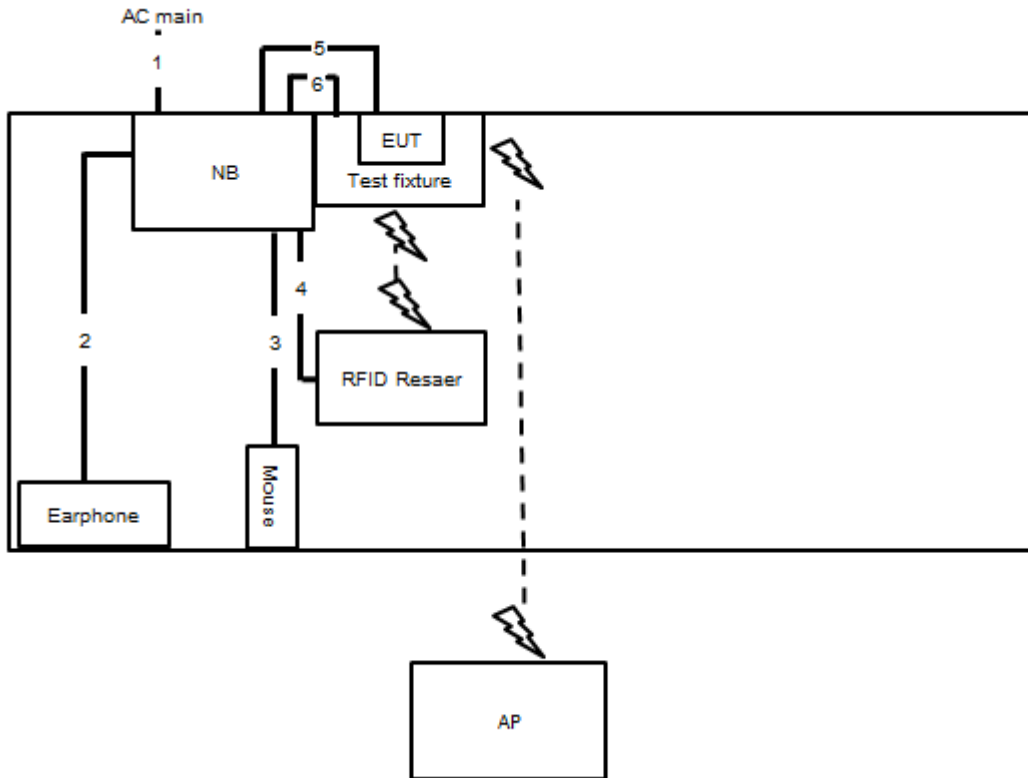
The EUT was programmed to be in continuously transmitting mode.

3.11. Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11b	1.000	1.000	100.00%	0.00	0.01
802.11g	1.000	1.000	100.00%	0.00	0.01
802.11n MCS0 HT20	1.000	1.000	100.00%	0.00	0.01
802.11n MCS0 HT40	1.000	1.000	100.00%	0.00	0.01

3.12. Test Configurations

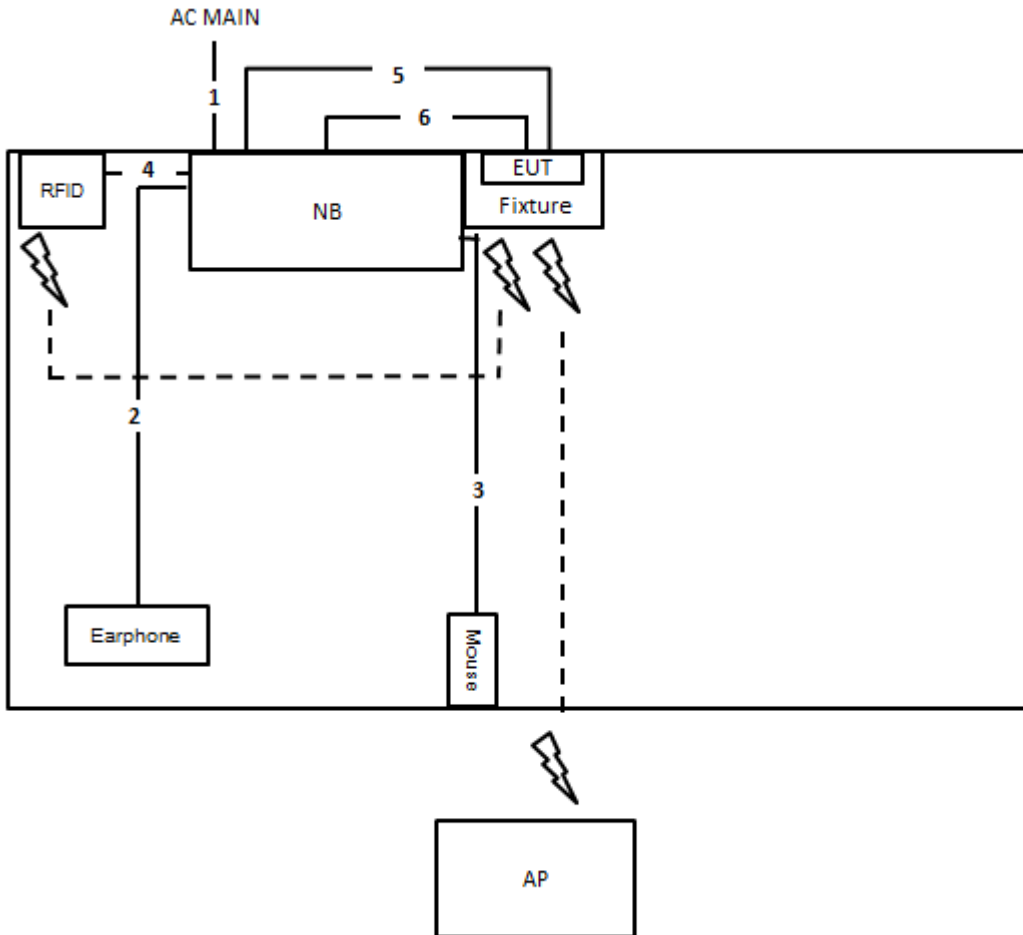
3.12.1. AC Power Line Conduction Emissions Test Configuration



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	Audio cable	No	1.8m
3	USB cable	Yes	1.8m
4	USB cable	Yes	0.3m
5	USB cable	Yes	0.3m
6	Line cable	No	0.2m

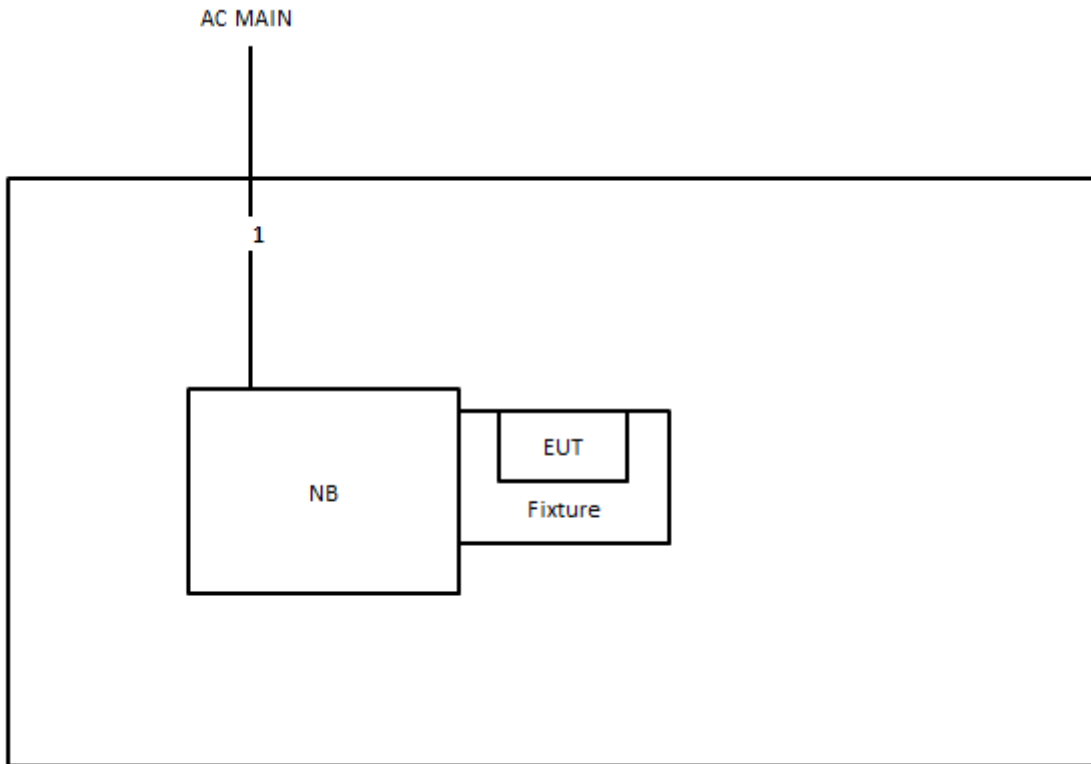
3.12.2. Radiation Emissions Test Configuration

Test Configuration: 30MHz~1GHz



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	Audio cable	No	1.8m
3	USB cable	Yes	1.8m
4	USB cable	Yes	0.3m
5	USB cable	Yes	0.3m
6	Line cable	No	0.2m

Test Configuration: above 1GHz



Item	Connection	Shielded	Length(m)
1	Power cable	No	2.6m

4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

4.1.2. Measuring Instruments and Setting

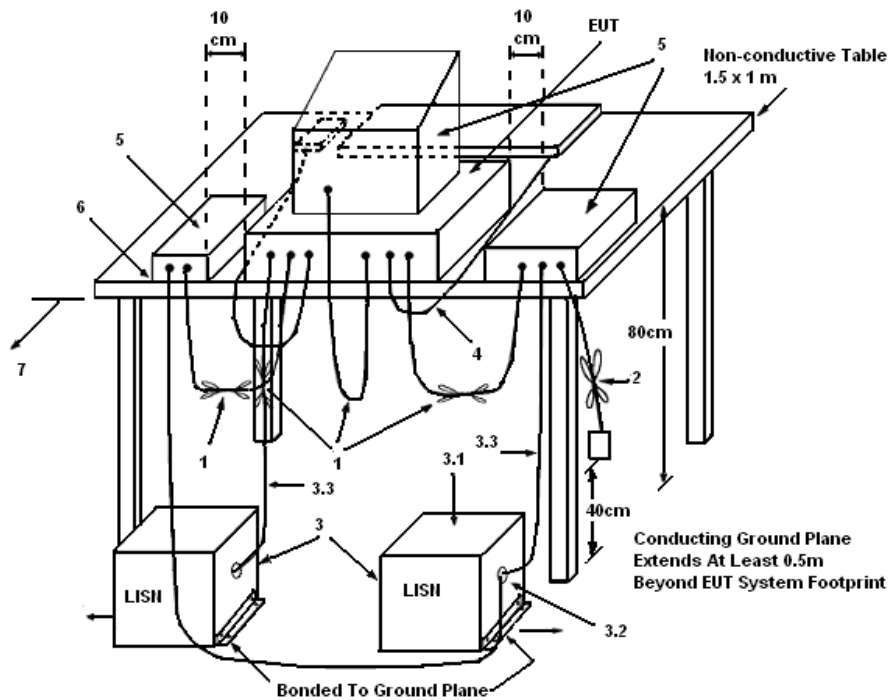
Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.3. Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 kHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

4.1.4. Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

4.1.5. Test Deviation

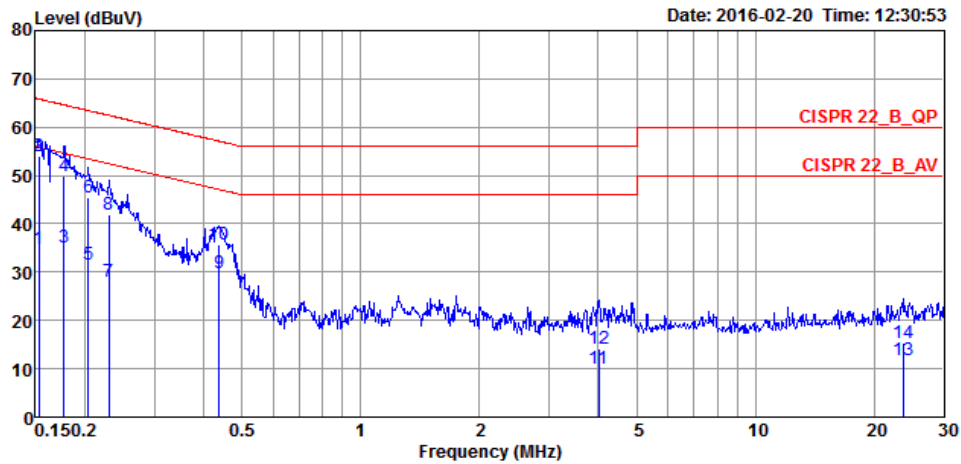
There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

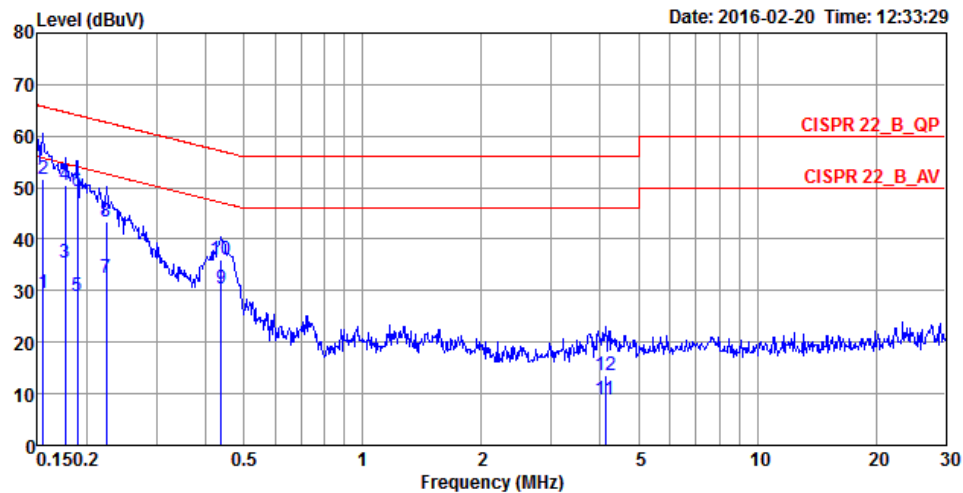
4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	22°C	Humidity	58%
Test Engineer	Deven Huang	Phase	Line
Configuration	Normal Link	Test Mode	Mode 1



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1532	34.86	-20.96	55.82	24.91	9.93	0.02	LINE	Average
2	0.1532	53.91	-11.91	65.82	43.96	9.93	0.02	LINE	QP
3	0.1768	35.11	-19.53	54.64	25.16	9.93	0.02	LINE	Average
4	0.1768	49.93	-14.71	64.64	39.98	9.93	0.02	LINE	QP
5	0.2040	31.66	-21.79	53.45	21.71	9.93	0.02	LINE	Average
6	0.2040	45.57	-17.88	63.45	35.62	9.93	0.02	LINE	QP
7	0.2304	27.95	-24.49	52.44	17.99	9.93	0.03	LINE	Average
8	0.2304	41.85	-20.59	62.44	31.89	9.93	0.03	LINE	QP
9	0.4374	29.74	-17.37	47.11	19.77	9.93	0.04	LINE	Average
10	0.4374	35.83	-21.28	57.11	25.86	9.93	0.04	LINE	QP
11	4.0062	10.05	-35.95	46.00	-0.04	10.02	0.07	LINE	Average
12	4.0062	14.15	-41.85	56.00	4.06	10.02	0.07	LINE	QP
13	23.6361	11.85	-38.15	50.00	1.04	10.54	0.27	LINE	Average
14	23.6361	15.36	-44.64	60.00	4.55	10.54	0.27	LINE	QP

Temperature	22°C	Humidity	58%
Test Engineer	Deven Huang	Phase	Neutral
Configuration	Normal Link	Test Mode	Mode 1



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1548	29.64	-26.10	55.74	19.84	9.78	0.02	NEUTRAL	Average
2	0.1548	51.65	-14.09	65.74	41.85	9.78	0.02	NEUTRAL	QP
3	0.1758	35.54	-19.14	54.68	25.73	9.79	0.02	NEUTRAL	Average
4	0.1758	50.43	-14.25	64.68	40.62	9.79	0.02	NEUTRAL	QP
5	0.1894	28.97	-25.09	54.06	19.16	9.79	0.02	NEUTRAL	Average
6	0.1894	49.20	-14.86	64.06	39.39	9.79	0.02	NEUTRAL	QP
7	0.2244	32.50	-20.16	52.66	22.68	9.79	0.03	NEUTRAL	Average
8	0.2244	43.46	-19.20	62.66	33.64	9.79	0.03	NEUTRAL	QP
9	0.4374	30.49	-16.62	47.11	20.66	9.79	0.04	NEUTRAL	Average
10	0.4374	36.10	-21.01	57.11	26.27	9.79	0.04	NEUTRAL	QP
11	4.1137	8.80	-37.20	46.00	-1.14	9.87	0.07	NEUTRAL	Average
12	4.1137	13.59	-42.41	56.00	3.65	9.87	0.07	NEUTRAL	QP

Note:

Level = Read Level + LISN Factor + Cable Loss.

4.2. Maximum Conducted Output Power Measurement

4.2.1. Limit

The limit for output power is 30dBm.

4.2.2. Measuring Instruments and Setting

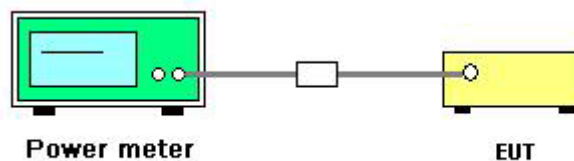
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Bandwidth	50MHz bandwidth is greater than the EUT emission bandwidth
Detector	Average

4.2.3. Test Procedures

1. Test procedures refer KDB558074 D01 v03r04 section 9.2.3.2 Measurement using a power meter (PM).
2. This procedure provides an alternative for determining the RMS output power using a broadband RF average power meter with a thermocouple detector.

4.2.4. Test Setup Layout



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 Maximum Conducted Output Power

Temperature	22°C	Humidity	56%
Test Engineer	Wen Chao	Test Date	Mar. 02, 2016

Mode	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
802.11b	2412 MHz	17.35	30.00	Complies
	2437 MHz	17.27	30.00	Complies
	2462 MHz	17.34	30.00	Complies
	2467 MHz	17.26	30.00	Complies
	2472 MHz	17.09	30.00	Complies
802.11g	2412 MHz	14.09	30.00	Complies
	2437 MHz	16.12	30.00	Complies
	2462 MHz	14.22	30.00	Complies
	2467 MHz	12.09	30.00	Complies
	2472 MHz	8.06	30.00	Complies
802.11n MCS0 HT20	2412 MHz	13.16	30.00	Complies
	2437 MHz	16.27	30.00	Complies
	2462 MHz	13.19	30.00	Complies
	2467 MHz	12.03	30.00	Complies
	2472 MHz	5.56	30.00	Complies
802.11n MCS0 HT40	2422 MHz	13.32	30.00	Complies
	2437 MHz	13.14	30.00	Complies
	2452 MHz	13.06	30.00	Complies
	2457 MHz	12.37	30.00	Complies
	2462 MHz	0.77	30.00	Complies

4.3. Power Spectral Density Measurement

4.3.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.2. Measuring Instruments and Setting

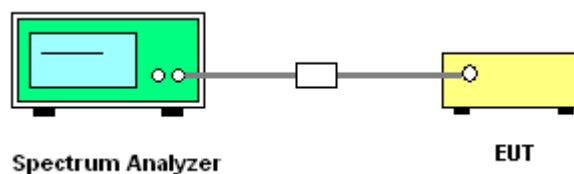
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Set the span to 1.5 times the DTS channel bandwidth.
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100\text{kHz}$
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto couple

4.3.3. Test Procedures

1. Test was performed in accordance with KDB558074 D01 v03r04 for Performing Compliance Measurements on Digital Transmission Systems (DTS) - section 10.2 Method PKPSD (peak PSD).
2. Use this procedure when the maximum conducted output power in the fundamental emission is used to demonstrate compliance. The EUT must be configured to transmit continuously at full power over the measurement duration.
3. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$ (use of a greater number of measurement points than this minimum requirement is recommended).
4. Use the peak marker function to determine the maximum level in any 3 kHz band segment within the fundamental EBW.
5. The resulting PSD level must be $\leq 8 \text{ dBm}$.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of Power Spectral Density

Temperature	22°C	Humidity	56%
Test Engineer	Wen Chao		

Mode	Frequency	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)	Result
802.11b	2412 MHz	-12.98	8.00	Complies
	2437 MHz	-13.31	8.00	Complies
	2462 MHz	-13.13	8.00	Complies
	2467 MHz	-12.75	8.00	Complies
	2472 MHz	-12.97	8.00	Complies
802.11g	2412 MHz	-14.85	8.00	Complies
	2437 MHz	-12.86	8.00	Complies
	2462 MHz	-14.70	8.00	Complies
	2467 MHz	-17.02	8.00	Complies
	2472 MHz	-21.15	8.00	Complies
802.11n MCS0 HT20	2412 MHz	-14.42	8.00	Complies
	2437 MHz	-12.37	8.00	Complies
	2462 MHz	-15.00	8.00	Complies
	2467 MHz	-16.28	8.00	Complies
	2472 MHz	-21.75	8.00	Complies
802.11n MCS0 HT40	2422 MHz	-16.14	8.00	Complies
	2437 MHz	-17.25	8.00	Complies
	2452 MHz	-17.78	8.00	Complies
	2457 MHz	-16.60	8.00	Complies
	2462 MHz	-29.55	8.00	Complies

Note: All the test values were listed in the report.

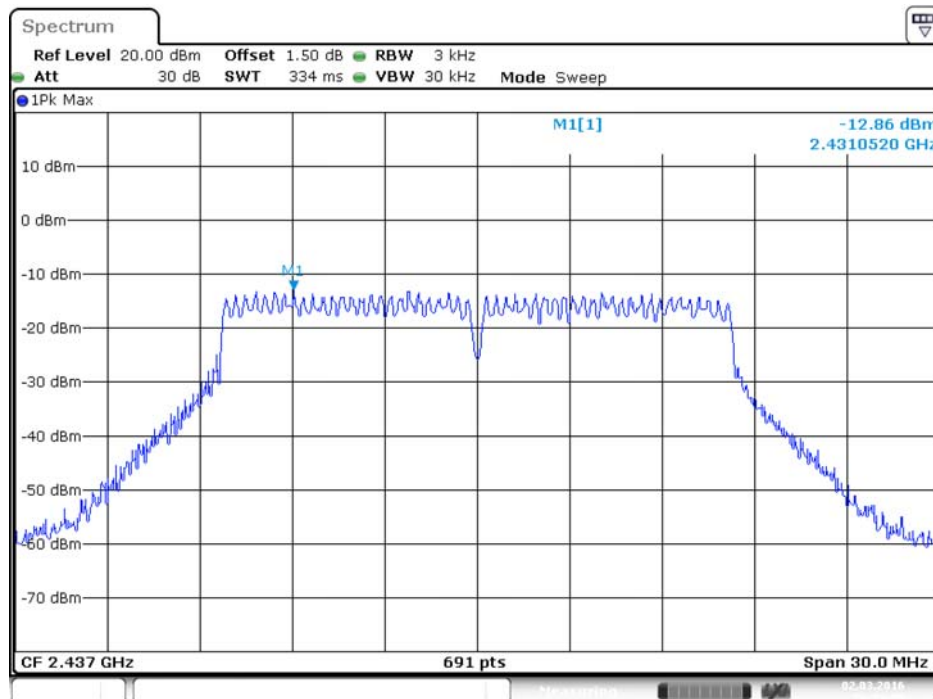
For plots, only the channel with worse result was shown.

Power Density Plot on Configuration IEEE 802.11 b / 2467 MHz / Chain 1



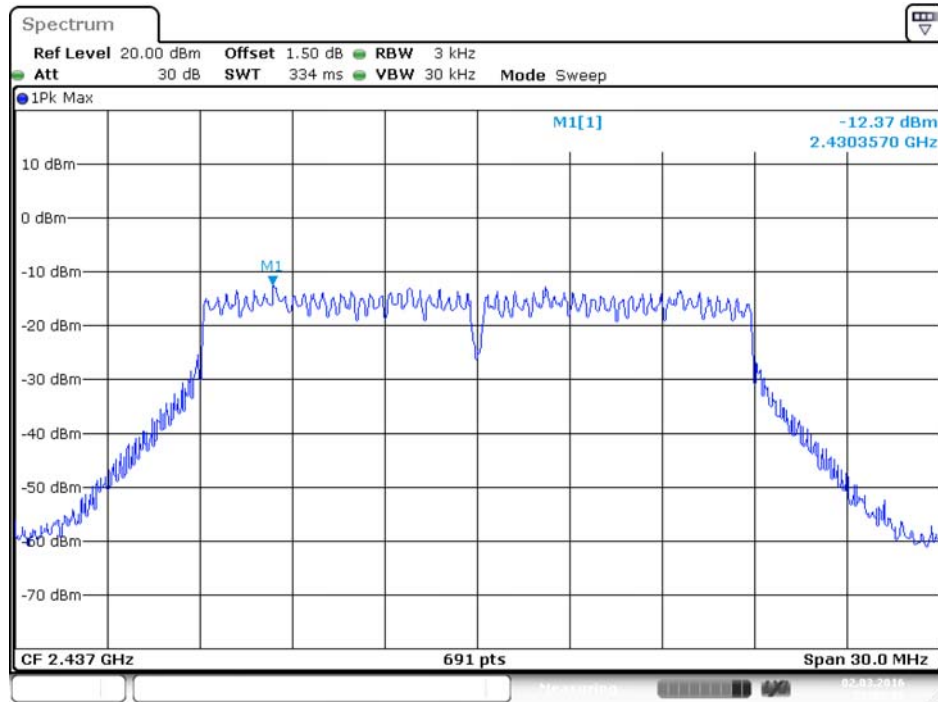
Date: 2.MAR.2016 20:37:06

Power Density Plot on Configuration IEEE 802.11 g / 2437 MHz / Chain 1

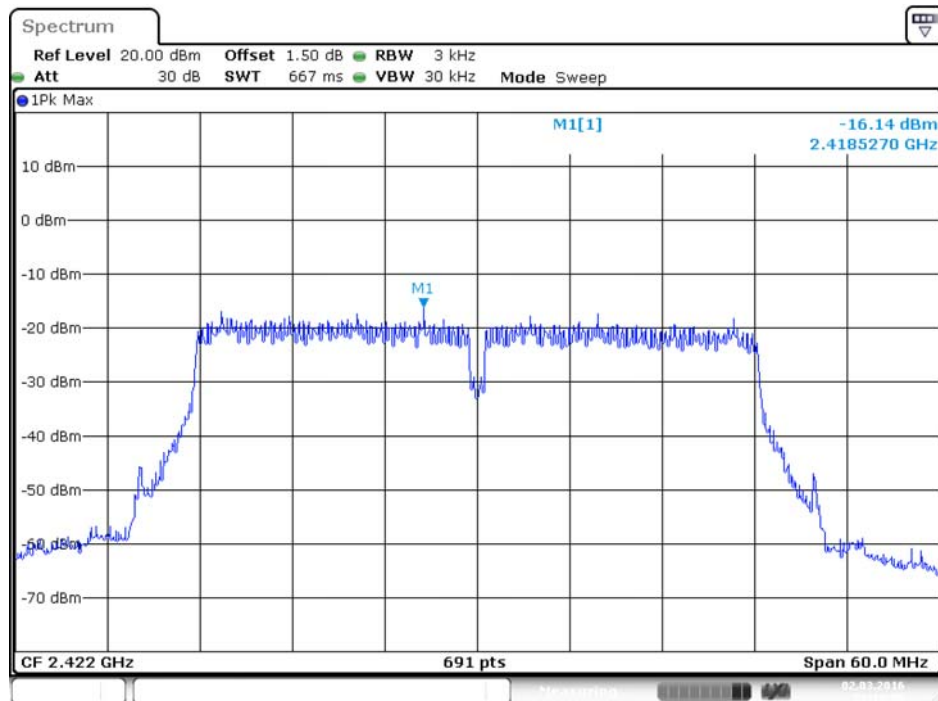


Date: 2.MAR.2016 20:39:58

Power Density Plot on Configuration IEEE 802.11n MCS0 HT20 / 2437 MHz / Chain 1



Power Density Plot on Configuration IEEE 802.11n MCS0 HT40 / 2422 MHz / Chain 1



4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.4.2. 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.

6dB Spectrum Bandwidth	
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RBW	100kHz
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth	
Spectrum Parameters	Setting
Span	1.5 times to 5.0 times the OBW
RBW	1 % to 5 % of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold

4.4.3. Test Procedures

For Radiated 6dB Bandwidth Measurement:

1. The transmitter was radiated to the spectrum analyzer in peak hold mode.
2. Test was performed in accordance with KDB558074 D01 v03r04 for Performing Compliance Measurements on Digital Transmission Systems (DTS) - section 8.0 DTS bandwidth => 8.1 Option 1.
3. Measured the spectrum width with power higher than 6dB below carrier.

4.4.4. Test Setup Layout

For Radiated 6dB Bandwidth Measurement:

This test setup layout is the same as that shown in section 4.5.4.

4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of 6dB Spectrum Bandwidth

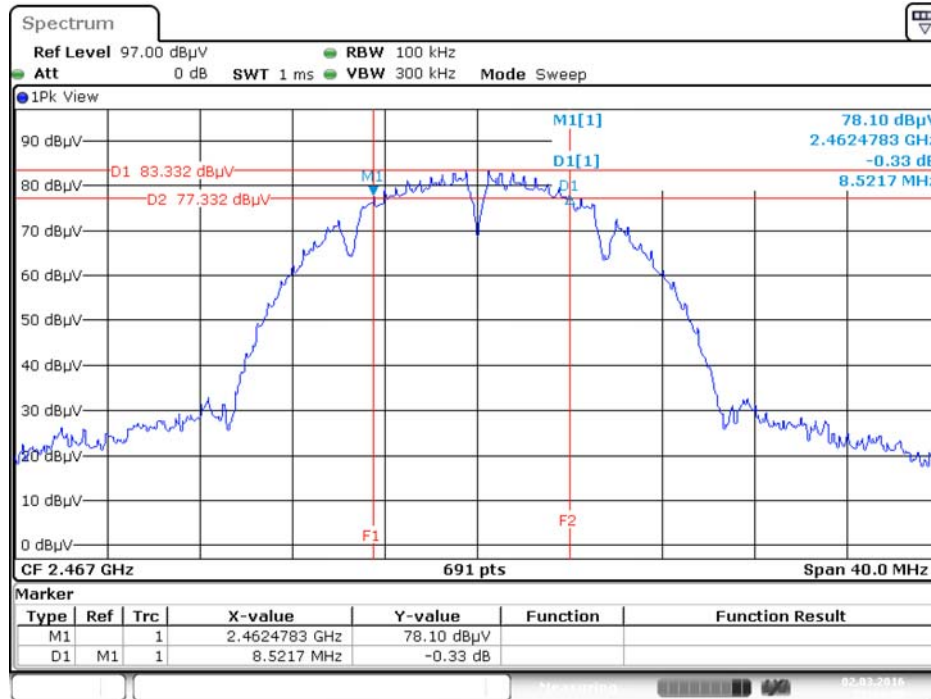
Temperature	22°C	Humidity	56%
Test Engineer	Wen Chao		

Mode	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
802.11b	2412 MHz	9.10	14.50	500	Complies
	2437 MHz	8.87	14.59	500	Complies
	2462 MHz	9.51	14.59	500	Complies
	2467 MHz	8.52	13.46	500	Complies
	2472 MHz	9.04	13.46	500	Complies
802.11g	2412 MHz	16.52	16.93	500	Complies
	2437 MHz	16.46	16.93	500	Complies
	2462 MHz	16.58	16.93	500	Complies
	2467 MHz	16.52	16.93	500	Complies
	2472 MHz	16.58	16.93	500	Complies
802.11n MCS0 HT20	2412 MHz	17.68	17.89	500	Complies
	2437 MHz	17.68	17.97	500	Complies
	2462 MHz	17.68	17.97	500	Complies
	2467 MHz	17.68	17.97	500	Complies
	2472 MHz	17.68	17.97	500	Complies
802.11n MCS0 HT40	2422 MHz	36.52	37.05	500	Complies
	2437 MHz	36.41	36.90	500	Complies
	2452 MHz	36.52	37.05	500	Complies
	2457 MHz	36.41	36.90	500	Complies
	2462 MHz	36.52	36.90	500	Complies

Note: All the test values were listed in the report.

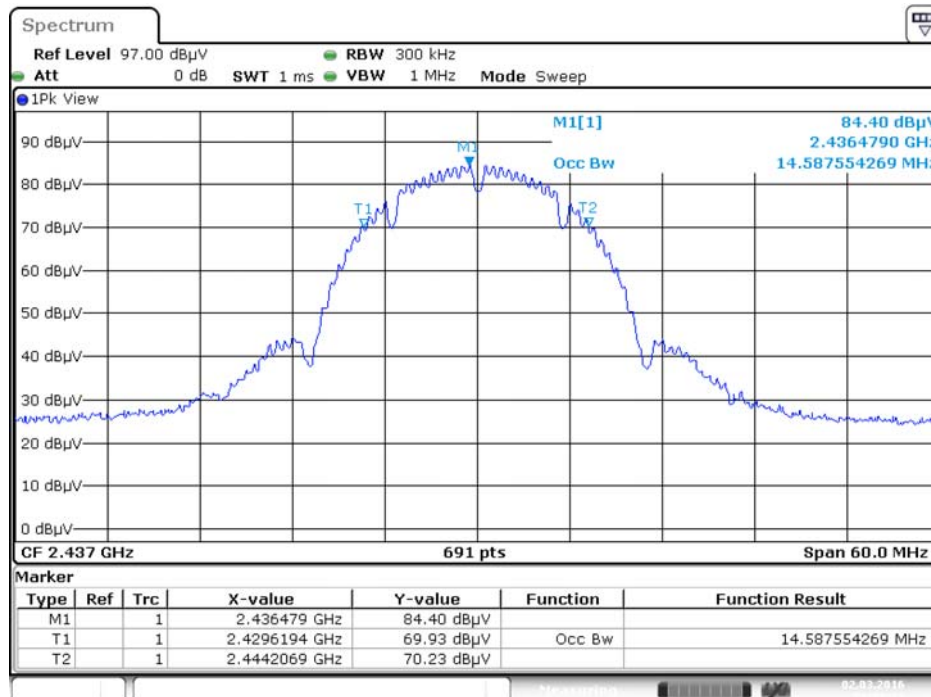
For plots, only the channel with worse result was shown.

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2467 MHz / Chain 1



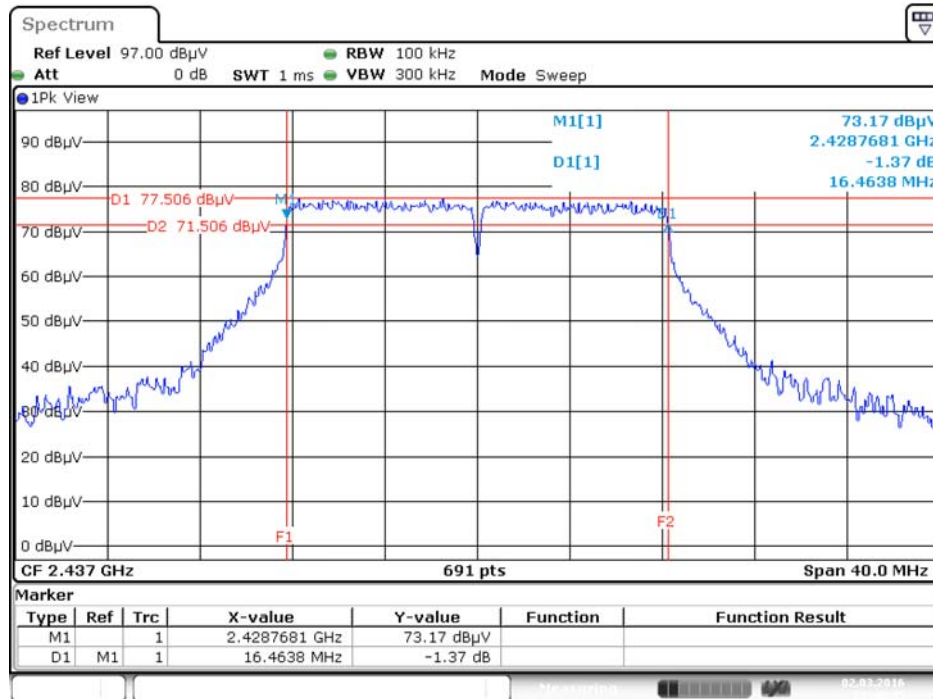
Date: 2.MAR.2016 21:44:10

99% Occupied Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz / Chain 1



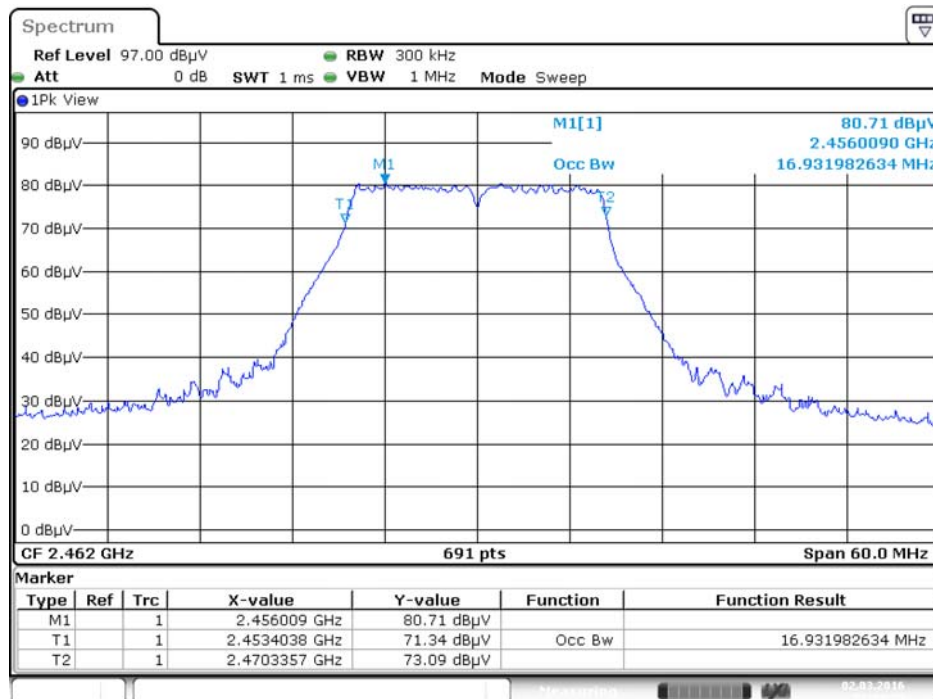
Date: 2.MAR.2016 21:51:32

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz / Chain 1



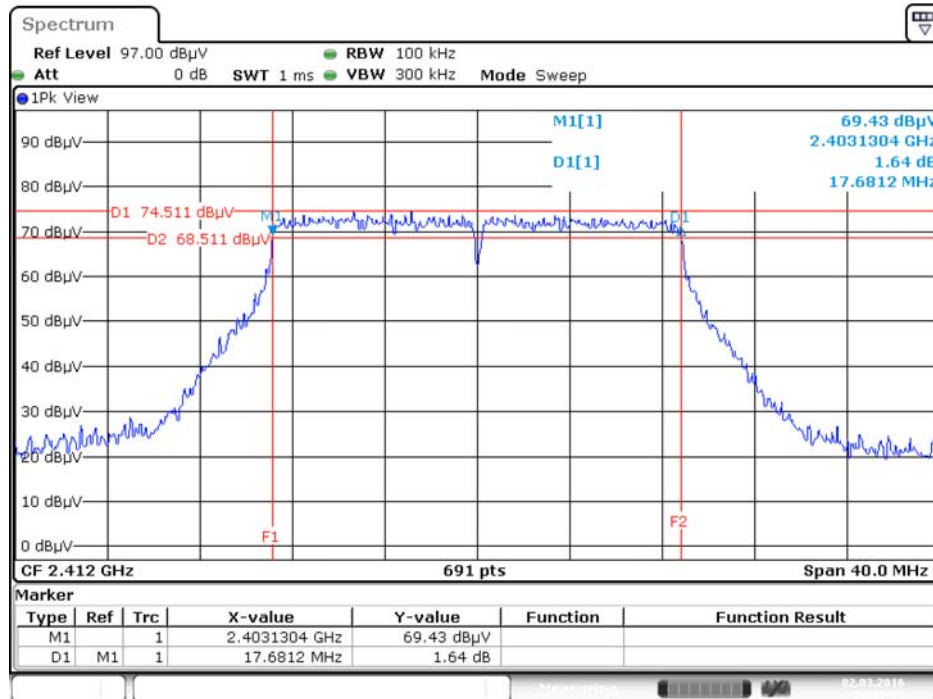
Date: 2.MAR.2016 21:40:45

99% Occupied Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz / Chain 1



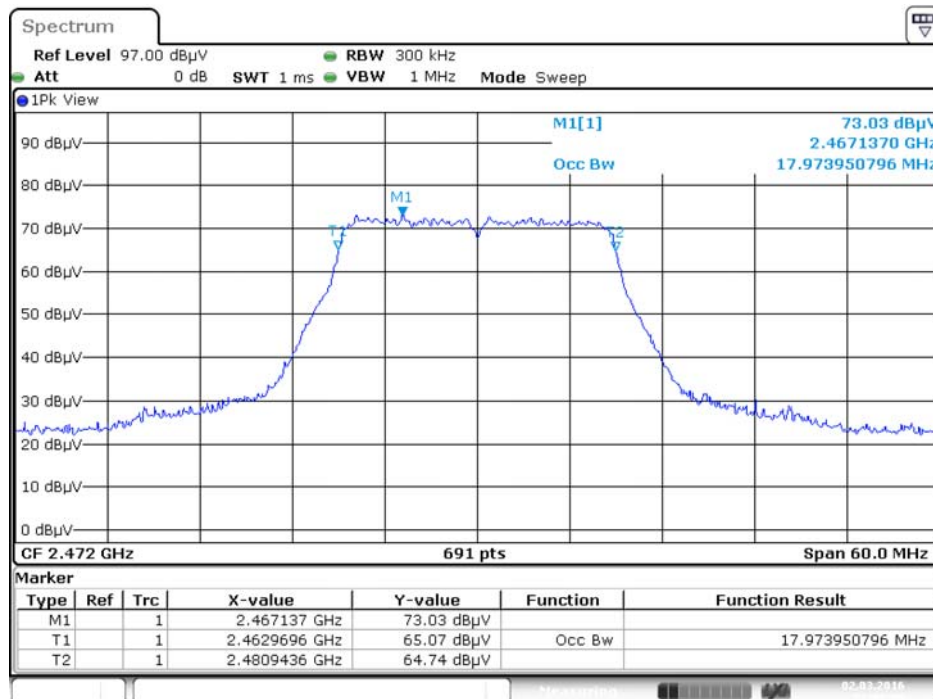
Date: 2.MAR.2016 22:03:24

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 HT20 / 2412 MHz / Chain 1



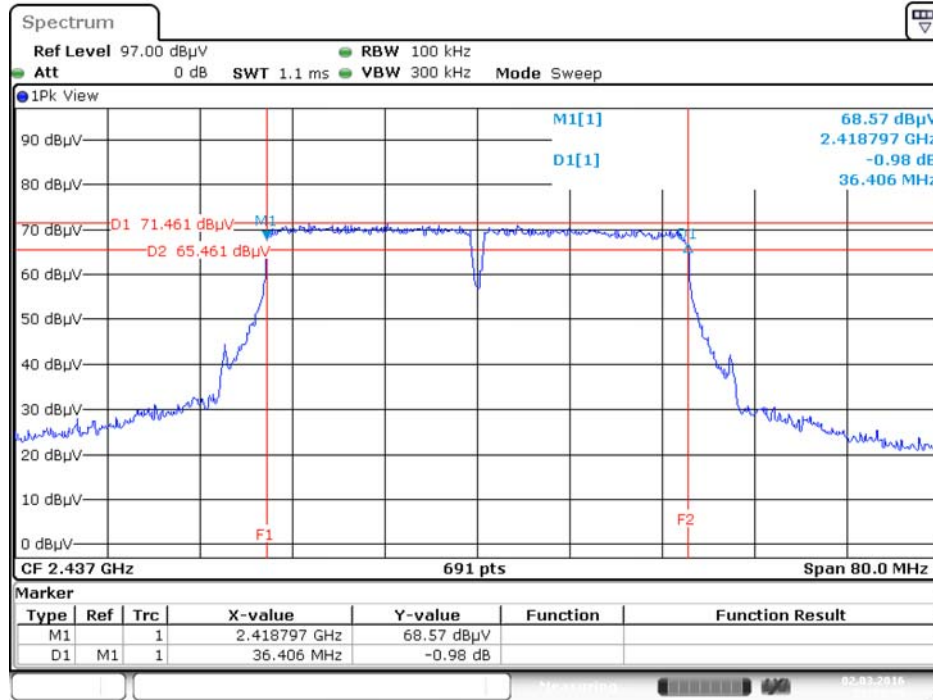
Date: 2.MAR.2016 21:37:22

99% Occupied Bandwidth Plot on Configuration IEEE 802.11n MCS0 HT20 / 2472 MHz / Chain 1



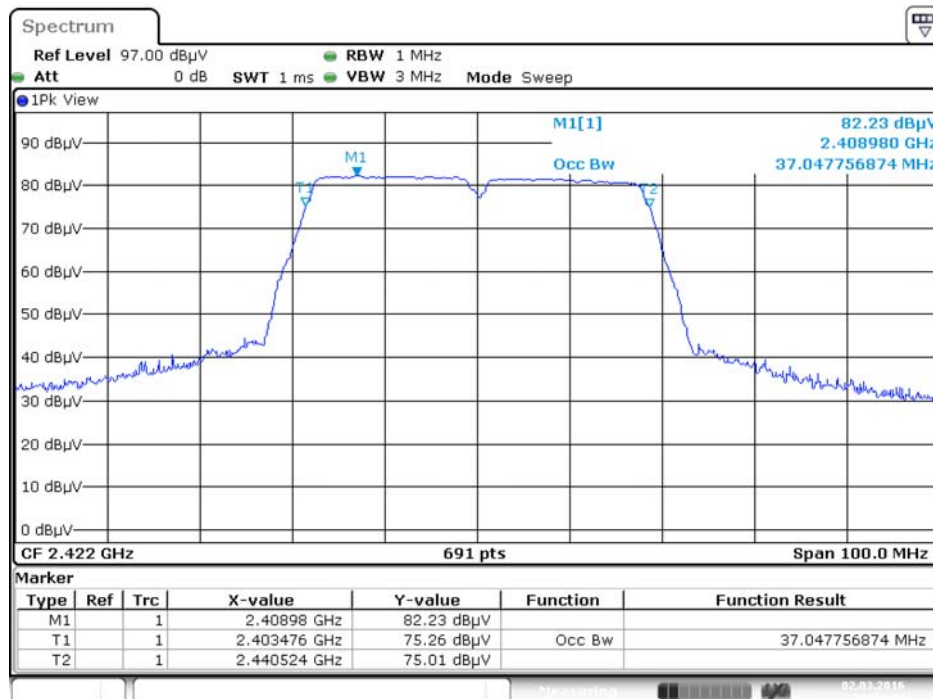
Date: 2.MAR.2016 22:07:30

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 HT40 / 2437 MHz / Chain 1



Date: 2.MAR.2016 21:35:25

99% Occupied Bandwidth Plot on Configuration IEEE 802.11n MCS0 HT40 / 2422 MHz / Chain 1



Date: 2.MAR.2016 22:09:03

4.5. Radiated Emissions Measurement

4.5.1. 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 (micorvolts/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

4.5.2. 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

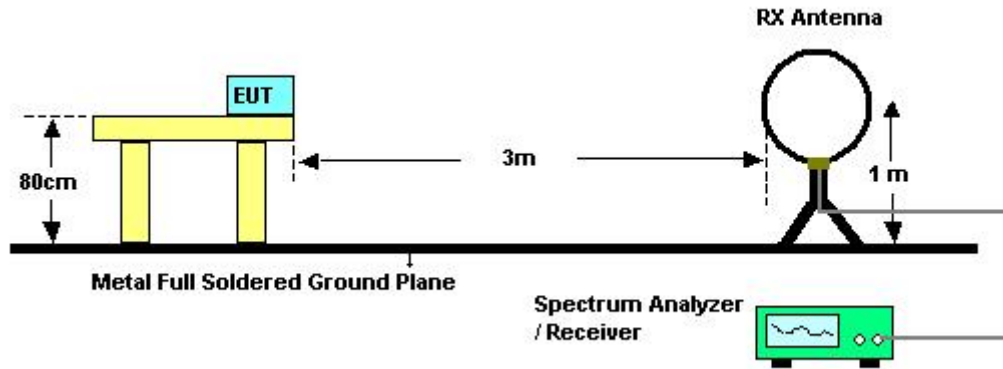
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

4.5.3. Test Procedures

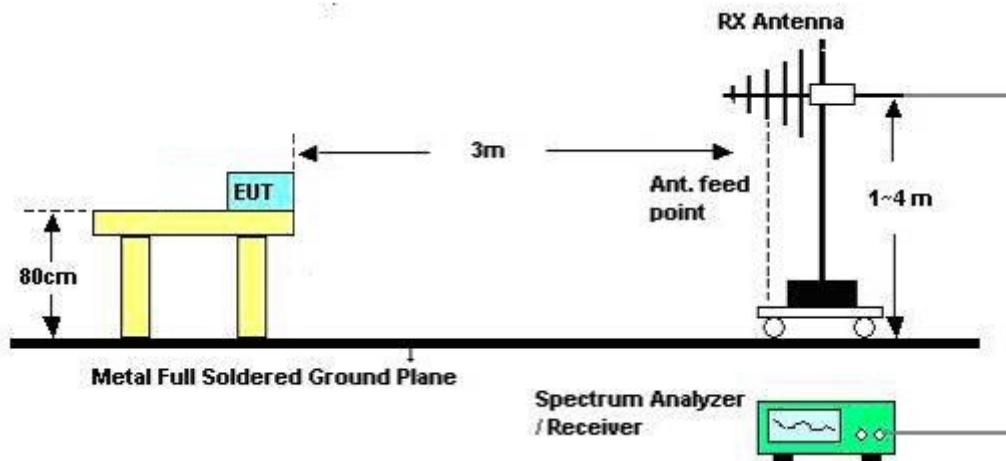
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting 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.

4.5.4. Test Setup Layout

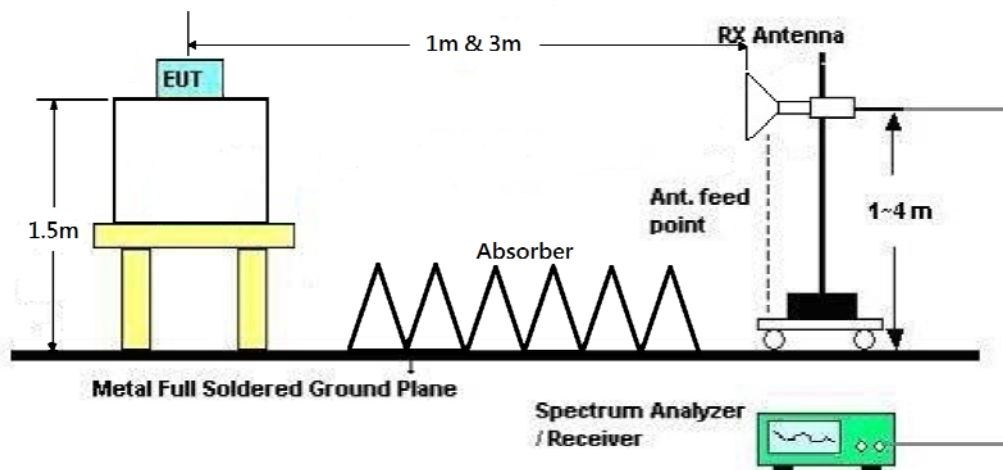
For Radiated Emissions: 9kHz ~30MHz



For Radiated Emissions: 30MHz~1GHz



For Radiated Emissions: Above 1GHz



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	Normal Link
Test Date	Feb. 24, 2016	Test Mode	Mode 3

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.

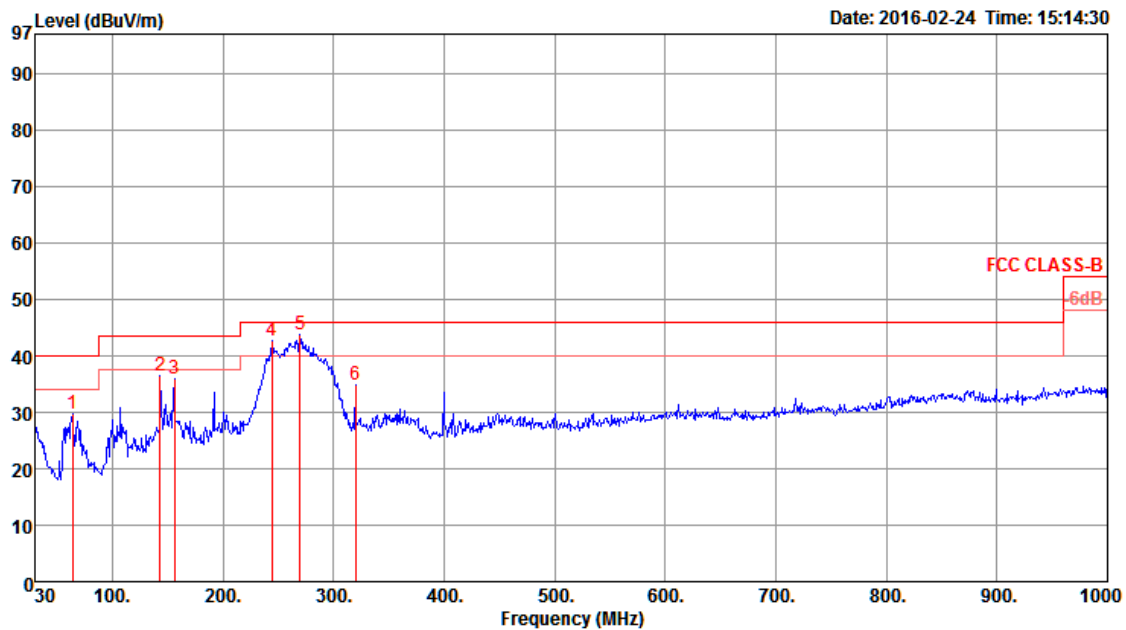
Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

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

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

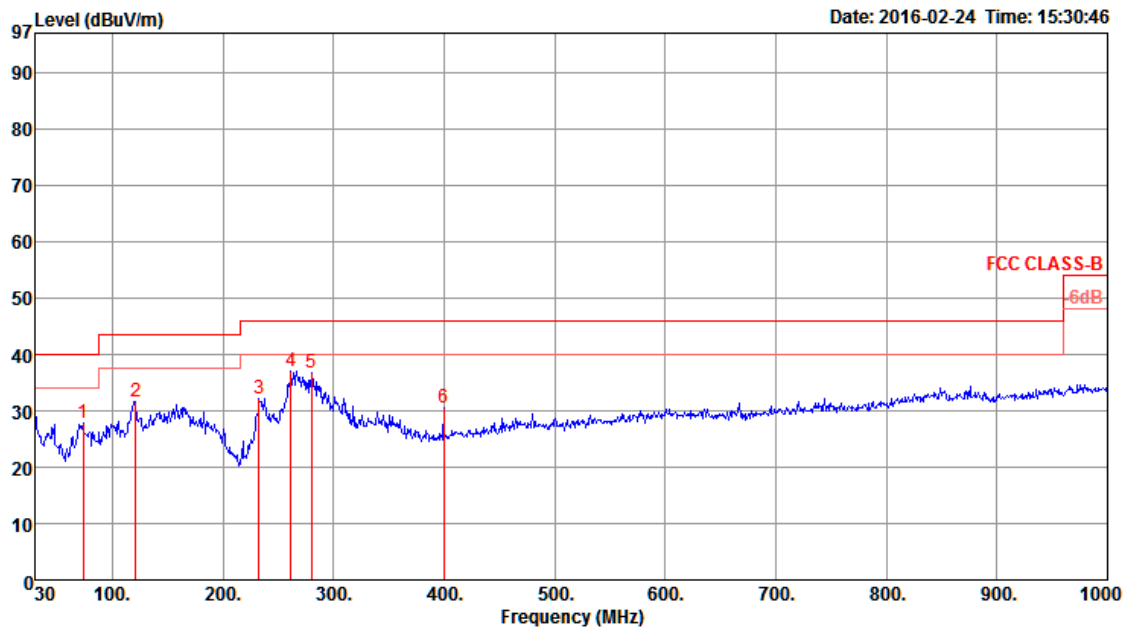
Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	Normal Link
Test Mode	Mode 3		

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	63.95	29.61	40.00	-10.39	46.27	0.47	12.26	29.39	0	100	Peak	HORIZONTAL
2	143.49	36.53	43.50	-6.97	47.35	0.90	17.32	29.04	0	100	Peak	HORIZONTAL
3	156.10	35.85	43.50	-7.65	47.33	0.94	16.56	28.98	0	100	Peak	HORIZONTAL
4	244.37	42.57	46.00	-3.43	51.62	1.30	18.23	28.58	0	100	Peak	HORIZONTAL
5	269.59	43.76	46.00	-2.24	51.40	1.40	19.42	28.46	0	100	Peak	HORIZONTAL
6	320.03	34.89	46.00	-11.11	41.64	1.57	20.17	28.49	0	100	Peak	HORIZONTAL

Vertical



	Freq MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Cable Loss dB	Antenna Factor dB/m	Preamp Factor dB	T/Pos deg	A/Pos cm	Remark	Pol/Phase
1	73.65	27.75	40.00	-12.25	44.04	0.53	12.53	29.35	0	400	Peak	VERTICAL
2	121.18	31.65	43.50	-11.85	41.70	0.81	18.29	29.15	0	400	Peak	VERTICAL
3	232.73	32.24	46.00	-13.76	42.47	1.26	17.15	28.64	0	400	Peak	VERTICAL
4	261.83	37.10	46.00	-8.90	44.67	1.37	19.56	28.50	0	400	Peak	VERTICAL
5	280.26	36.82	46.00	-9.18	44.49	1.44	19.30	28.41	0	400	Peak	VERTICAL
6	399.57	30.61	46.00	-15.39	35.51	1.79	22.36	29.05	0	400	Peak	VERTICAL

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.

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 1 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.97	39.76	54.00	-14.24	34.26	7.10	33.41	35.01	138	172	Average	HORIZONTAL
2	4824.07	48.75	74.00	-25.25	43.25	7.10	33.41	35.01	138	172	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.01	40.83	54.00	-13.17	35.33	7.10	33.41	35.01	104	158	Average	VERTICAL
2	4824.02	49.24	74.00	-24.76	43.74	7.10	33.41	35.01	104	158	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 6 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.96	50.92	74.00	-23.08	45.28	7.12	33.53	35.01	174	167	Peak	HORIZONTAL
2	4873.97	44.13	54.00	-9.87	38.49	7.12	33.53	35.01	174	167	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4874.00	43.82	54.00	-10.18	38.18	7.12	33.53	35.01	100	157	Average	VERTICAL
2	4874.05	50.26	74.00	-23.74	44.62	7.12	33.53	35.01	100	157	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 11 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.92	52.41	74.00	-21.59	46.63	7.14	33.65	35.01	192	132	Peak	HORIZONTAL
2	4923.99	46.80	54.00	-7.20	41.02	7.14	33.65	35.01	192	132	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.99	45.13	54.00	-8.87	39.35	7.14	33.65	35.01	188	52	Average	VERTICAL
2	4924.06	50.72	74.00	-23.28	44.94	7.14	33.65	35.01	188	52	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 12 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4933.95	46.26	54.00	-7.74	40.48	7.14	33.65	35.01	190	144	Average	HORIZONTAL
2	4934.14	51.50	74.00	-22.50	45.72	7.14	33.65	35.01	190	144	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4933.98	43.73	54.00	-10.27	37.95	7.14	33.65	35.01	189	228	Average	VERTICAL
2	4934.11	50.20	74.00	-23.80	44.42	7.14	33.65	35.01	189	228	Peak	VERTICAL



Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 13 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4943.97	46.50	54.00	-7.50	40.69	7.14	33.68	35.01	191	143	Average	HORIZONTAL
2	4944.06	51.68	74.00	-22.32	45.87	7.14	33.68	35.01	191	143	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4943.96	49.92	74.00	-24.08	44.11	7.14	33.68	35.01	188	228	Peak	VERTICAL
2	4944.04	43.65	54.00	-10.35	37.84	7.14	33.68	35.01	188	228	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 1 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4822.71	48.74	74.00	-25.26	43.24	7.10	33.41	35.01	149	254	Peak	HORIZONTAL
2	4825.92	34.27	54.00	-19.73	28.73	7.11	33.44	35.01	149	254	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4822.02	47.74	74.00	-26.26	42.24	7.10	33.41	35.01	162	112	Peak	VERTICAL
2	4825.54	34.64	54.00	-19.36	29.10	7.11	33.44	35.01	162	112	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 6 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4871.71	34.96	54.00	-19.04	29.32	7.12	33.53	35.01	208	275	Average	HORIZONTAL
2	4872.92	47.26	74.00	-26.74	41.62	7.12	33.53	35.01	208	275	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4871.64	48.29	74.00	-25.71	42.65	7.12	33.53	35.01	192	180	Peak	VERTICAL
2	4873.03	34.89	54.00	-19.11	29.25	7.12	33.53	35.01	192	180	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 11 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.57	49.06	74.00	-24.94	43.31	7.14	33.62	35.01	170	125	Peak	HORIZONTAL
2	4924.28	35.01	54.00	-18.99	29.23	7.14	33.65	35.01	170	125	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4922.96	46.96	74.00	-27.04	41.21	7.14	33.62	35.01	185	214	Peak	VERTICAL
2	4925.77	34.91	54.00	-19.09	29.13	7.14	33.65	35.01	185	214	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 12 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4932.42	34.90	54.00	-19.10	29.12	7.14	33.65	35.01	162	140	Average	HORIZONTAL
2	4936.19	47.27	74.00	-26.73	41.49	7.14	33.65	35.01	162	140	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4934.20	47.97	74.00	-26.03	42.19	7.14	33.65	35.01	160	172	Peak	VERTICAL
2	4936.48	34.34	54.00	-19.66	28.56	7.14	33.65	35.01	160	172	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 13 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4942.05	34.29	54.00	-19.71	28.48	7.14	33.68	35.01	184	126	Average	HORIZONTAL
2	4946.07	48.13	74.00	-25.87	42.32	7.14	33.68	35.01	184	126	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4943.56	34.36	54.00	-19.64	28.55	7.14	33.68	35.01	152	191	Average	VERTICAL
2	4945.74	46.91	74.00	-27.09	41.10	7.14	33.68	35.01	152	191	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 1 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.41	34.50	54.00	-19.50	29.00	7.10	33.41	35.01	158	89	Average	HORIZONTAL
2	4825.47	46.82	74.00	-27.18	41.28	7.11	33.44	35.01	158	89	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4822.80	34.29	54.00	-19.71	28.79	7.10	33.41	35.01	156	168	Average	VERTICAL
2	4823.44	47.58	74.00	-26.42	42.08	7.10	33.41	35.01	156	168	Peak	VERTICAL



Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 6 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4871.81	47.65	74.00	-26.35	42.01	7.12	33.53	35.01	179	285	Peak	HORIZONTAL
2	4874.13	35.31	54.00	-18.69	29.67	7.12	33.53	35.01	179	285	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.32	47.80	74.00	-26.20	42.16	7.12	33.53	35.01	190	59	Peak	VERTICAL
2	4873.96	35.66	54.00	-18.34	30.02	7.12	33.53	35.01	190	59	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 11 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4924.72	47.25	74.00	-26.75	41.47	7.14	33.65	35.01	121	207	Peak	HORIZONTAL
2	4926.38	34.93	54.00	-19.07	29.15	7.14	33.65	35.01	121	207	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4925.74	34.64	54.00	-19.36	28.86	7.14	33.65	35.01	146	175	Average	VERTICAL
2	4926.34	46.97	74.00	-27.03	41.19	7.14	33.65	35.01	146	175	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 12 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4933.89	47.26	74.00	-26.74	41.48	7.14	33.65	35.01	169	220	Peak	HORIZONTAL
2	4935.09	34.54	54.00	-19.46	28.76	7.14	33.65	35.01	169	220	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4934.74	34.52	54.00	-19.48	28.74	7.14	33.65	35.01	153	101	Average	VERTICAL
2	4936.07	47.59	74.00	-26.41	41.81	7.14	33.65	35.01	153	101	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 13 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4942.60	46.98	74.00	-27.02	41.17	7.14	33.68	35.01	175	117	Peak	HORIZONTAL
2	4946.03	34.46	54.00	-19.54	28.65	7.14	33.68	35.01	175	117	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4942.26	46.99	74.00	-27.01	41.18	7.14	33.68	35.01	159	214	Peak	VERTICAL
2	4944.51	34.36	54.00	-19.64	28.55	7.14	33.68	35.01	159	214	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 3 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4842.86	47.26	74.00	-26.74	41.69	7.11	33.47	35.01	156	214	Peak	HORIZONTAL
2	4844.09	34.56	54.00	-19.44	28.99	7.11	33.47	35.01	156	214	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4844.25	34.85	54.00	-19.15	29.28	7.11	33.47	35.01	140	104	Average	VERTICAL
2	4845.13	47.23	74.00	-26.77	41.66	7.11	33.47	35.01	140	104	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 6 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.22	34.83	54.00	-19.17	29.19	7.12	33.53	35.01	148	131	Average	HORIZONTAL
2	4875.04	47.96	74.00	-26.04	42.32	7.12	33.53	35.01	148	131	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.11	47.82	74.00	-26.18	42.18	7.12	33.53	35.01	173	265	Peak	VERTICAL
2	4874.07	34.45	54.00	-19.55	28.81	7.12	33.53	35.01	173	265	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 9 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.15	34.58	54.00	-19.42	28.87	7.13	33.59	35.01	144	160	Average	HORIZONTAL
2	4905.25	47.89	74.00	-26.11	42.18	7.13	33.59	35.01	144	160	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4902.63	46.61	74.00	-27.39	40.90	7.13	33.59	35.01	158	295	Peak	VERTICAL
2	4904.51	34.49	54.00	-19.51	28.78	7.13	33.59	35.01	158	295	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 10 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4914.26	47.02	74.00	-26.98	41.27	7.14	33.62	35.01	182	281	Peak	HORIZONTAL
2	4916.23	34.62	54.00	-19.38	28.87	7.14	33.62	35.01	182	281	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4915.52	48.03	74.00	-25.97	42.28	7.14	33.62	35.01	171	174	Peak	VERTICAL
2	4915.80	34.76	54.00	-19.24	29.01	7.14	33.62	35.01	171	174	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 11 / Chain 1
Test Date	Feb. 27, 2016	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.96	48.57	74.00	-25.43	42.79	7.14	33.65	35.01	174	124	Peak	HORIZONTAL
2	4924.83	34.60	54.00	-19.40	28.82	7.14	33.65	35.01	174	124	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4925.48	47.65	74.00	-26.35	41.87	7.14	33.65	35.01	163	148	Peak	VERTICAL
2	4926.36	34.76	54.00	-19.24	28.98	7.14	33.65	35.01	163	148	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 1 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.87	51.33	74.00	-22.67	48.11	7.18	32.58	36.54	171	157	Peak	HORIZONTAL
2	4823.97	46.91	54.00	-7.09	43.69	7.18	32.58	36.54	171	157	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.95	51.16	74.00	-22.84	47.94	7.18	32.58	36.54	166	251	Peak	VERTICAL
2	4824.02	46.17	54.00	-7.83	42.95	7.18	32.58	36.54	166	251	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 6 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.90	39.06	54.00	-14.94	35.79	7.12	32.68	36.53	174	154	Average	HORIZONTAL
2	4873.94	47.32	74.00	-26.68	44.05	7.12	32.68	36.53	174	154	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.98	37.96	54.00	-16.04	34.69	7.12	32.68	36.53	150	254	Average	VERTICAL
2	4874.35	47.13	74.00	-26.87	43.86	7.12	32.68	36.53	150	254	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 11 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.86	46.97	74.00	-27.03	43.67	7.05	32.78	36.53	135	150	Peak	HORIZONTAL
2	4923.98	39.58	54.00	-14.42	36.28	7.05	32.78	36.53	135	150	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.99	41.27	54.00	-12.73	37.97	7.05	32.78	36.53	134	40	Average	VERTICAL
2	4924.06	47.74	74.00	-26.26	44.44	7.05	32.78	36.53	134	40	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 12 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4933.63	48.15	74.00	-25.85	44.85	7.05	32.78	36.53	139	176	Peak	HORIZONTAL
2	4933.99	38.77	54.00	-15.23	35.47	7.05	32.78	36.53	139	176	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4934.04	40.24	54.00	-13.76	36.94	7.05	32.78	36.53	262	150	Average	VERTICAL
2	4934.04	47.67	74.00	-26.33	44.37	7.05	32.78	36.53	262	150	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 13 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4944.00	41.36	54.00	-12.64	38.05	7.04	32.80	36.53	141	211	Average	HORIZONTAL
2	4944.20	48.16	74.00	-25.84	44.85	7.04	32.80	36.53	141	211	Peak	HORIZONTAL
3	7415.30	49.33	54.00	-4.67	39.25	8.70	37.38	36.00	106	326	Average	HORIZONTAL
4	7416.26	56.27	74.00	-17.73	46.19	8.70	37.38	36.00	106	326	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4943.84	48.45	74.00	-25.55	45.14	7.04	32.80	36.53	152	45	Peak	VERTICAL
2	4943.98	40.82	54.00	-13.18	37.51	7.04	32.80	36.53	152	45	Average	VERTICAL
3	7414.01	53.27	74.00	-20.73	43.19	8.70	37.38	36.00	250	256	Peak	VERTICAL
4	7416.71	43.23	54.00	-10.77	33.15	8.70	37.38	36.00	250	256	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 1 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4825.38	35.75	54.00	-18.25	27.62	8.07	33.14	33.08	104	13	Average	HORIZONTAL
2	4825.84	48.59	74.00	-25.41	40.46	8.07	33.14	33.08	104	13	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4821.06	48.98	74.00	-25.02	40.84	8.11	33.11	33.08	110	337	Peak	VERTICAL
2	4823.36	35.48	54.00	-18.52	27.34	8.11	33.11	33.08	110	337	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 6 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4869.30	48.70	74.00	-25.30	40.61	7.94	33.23	33.08	120	141	Peak	HORIZONTAL
2	4871.56	36.90	54.00	-17.10	28.81	7.94	33.23	33.08	120	141	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4871.72	36.13	54.00	-17.87	28.04	7.94	33.23	33.08	127	120	Average	VERTICAL
2	4875.42	49.76	74.00	-24.24	41.67	7.94	33.23	33.08	127	120	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 11 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	4923.54	36.18	54.00	-17.82	28.11	7.82	33.32	33.07	136	131	Average	HORIZONTAL
2	4923.62	49.60	74.00	-24.40	41.54	7.78	33.35	33.07	136	131	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	4923.96	36.17	54.00	-17.83	28.11	7.78	33.35	33.07	139	160	Average	VERTICAL
2	4928.28	49.25	74.00	-24.75	41.18	7.78	33.35	33.06	139	160	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 12 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4936.00	49.00	74.00	-25.00	40.93	7.78	33.35	33.06	149	197	Peak	HORIZONTAL
2	4938.34	35.95	54.00	-18.05	27.89	7.74	33.38	33.06	149	197	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4934.96	49.10	74.00	-24.90	41.03	7.78	33.35	33.06	167	225	Peak	VERTICAL
2	4938.70	35.91	54.00	-18.09	27.85	7.74	33.38	33.06	167	225	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 13 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4941.26	48.63	74.00	-25.37	40.57	7.74	33.38	33.06	173	245	Peak	HORIZONTAL
2	4944.96	35.99	54.00	-18.01	27.93	7.74	33.38	33.06	173	245	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4942.50	35.82	54.00	-18.18	27.76	7.74	33.38	33.06	177	282	Average	VERTICAL
2	4944.40	49.16	74.00	-24.84	41.10	7.74	33.38	33.06	177	282	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 1 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4941.98	36.05	54.00	-17.95	27.99	7.74	33.38	33.06	152	319	Average	HORIZONTAL
2	4947.24	49.27	74.00	-24.73	41.21	7.74	33.38	33.06	152	319	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4944.18	50.71	74.00	-23.29	42.65	7.74	33.38	33.06	126	338	Peak	VERTICAL
2	4945.32	35.71	54.00	-18.29	27.65	7.74	33.38	33.06	126	338	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 6 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	4873.54	48.70	74.00	-25.30	40.61	7.94	33.23	33.08	126	338	Peak	HORIZONTAL
2	4873.58	35.61	54.00	-18.39	27.52	7.94	33.23	33.08	126	338	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	4871.02	49.50	74.00	-24.50	41.41	7.94	33.23	33.08	110	346	Peak	VERTICAL
2	4874.16	36.13	54.00	-17.87	28.04	7.94	33.23	33.08	110	346	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 11 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4924.12	49.02	74.00	-24.98	40.96	7.78	33.35	33.07	105	332	Peak	HORIZONTAL
2	4925.52	35.99	54.00	-18.01	27.92	7.78	33.35	33.06	105	332	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4922.00	48.65	74.00	-25.35	40.58	7.82	33.32	33.07	119	318	Peak	VERTICAL
2	4923.92	36.15	54.00	-17.85	28.09	7.78	33.35	33.07	119	318	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 12 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4929.70	49.17	74.00	-24.83	41.10	7.78	33.35	33.06	135	300	Peak	HORIZONTAL
2	4934.72	35.88	54.00	-18.12	27.81	7.78	33.35	33.06	135	300	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4934.42	49.16	74.00	-24.84	41.09	7.78	33.35	33.06	148	270	Peak	VERTICAL
2	4938.00	35.79	54.00	-18.21	27.73	7.74	33.38	33.06	148	270	Average	VERTICAL



Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 13 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4943.24	36.19	54.00	-17.81	28.13	7.74	33.38	33.06	167	301	Average	HORIZONTAL
2	4945.66	49.15	74.00	-24.85	41.09	7.74	33.38	33.06	167	301	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4944.70	49.00	74.00	-25.00	40.94	7.74	33.38	33.06	174	286	Peak	VERTICAL
2	4948.12	35.86	54.00	-18.14	27.80	7.74	33.38	33.06	174	286	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 3 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4839.04	35.73	54.00	-18.27	27.61	8.03	33.17	33.08	188	272	Average	HORIZONTAL
2	4844.76	49.25	74.00	-24.75	41.13	8.03	33.17	33.08	188	272	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4847.86	35.66	54.00	-18.34	27.54	8.03	33.17	33.08	177	249	Average	VERTICAL
2	4848.40	48.78	74.00	-25.22	40.66	8.03	33.17	33.08	177	249	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 6 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4870.56	49.09	74.00	-24.91	41.00	7.94	33.23	33.08	166	214	Peak	HORIZONTAL
2	4873.02	35.79	54.00	-18.21	27.70	7.94	33.23	33.08	166	214	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4872.04	49.73	74.00	-24.27	41.64	7.94	33.23	33.08	163	195	Peak	VERTICAL
2	4873.78	35.69	54.00	-18.31	27.60	7.94	33.23	33.08	163	195	Average	VERTICAL



Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 9 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4904.78	35.73	54.00	-18.27	27.65	7.86	33.29	33.07	146	148	Average	HORIZONTAL
2	4905.88	48.61	74.00	-25.39	40.53	7.86	33.29	33.07	146	148	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.08	49.25	74.00	-24.75	41.17	7.86	33.29	33.07	126	134	Peak	VERTICAL
2	4908.48	35.67	54.00	-18.33	27.59	7.86	33.29	33.07	126	134	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 10 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4902.90	35.61	54.00	-18.39	27.53	7.86	33.29	33.07	119	106	Average	HORIZONTAL
2	4907.92	48.54	74.00	-25.46	40.46	7.86	33.29	33.07	119	106	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4900.48	35.56	54.00	-18.44	27.48	7.86	33.29	33.07	109	84	Average	VERTICAL
2	4901.82	48.68	74.00	-25.32	40.60	7.86	33.29	33.07	109	84	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 11 / Chain 1
Test Date	Feb. 24, 2016	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4921.64	49.73	74.00	-24.27	41.66	7.82	33.32	33.07	130	57	Peak	HORIZONTAL
2	4923.36	35.20	54.00	-18.80	27.13	7.82	33.32	33.07	130	57	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4921.94	48.45	74.00	-25.55	40.38	7.82	33.32	33.07	148	29	Peak	VERTICAL
2	4926.76	35.86	54.00	-18.14	27.79	7.78	33.35	33.06	148	29	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 1 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4824.04	39.04	54.00	-14.96	33.54	7.10	33.41	35.01	155	18	Average	HORIZONTAL
2	4824.04	49.30	74.00	-24.70	43.80	7.10	33.41	35.01	155	18	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.88	49.69	74.00	-24.31	44.19	7.10	33.41	35.01	264	48	Peak	VERTICAL
2	4823.99	40.41	54.00	-13.59	34.91	7.10	33.41	35.01	264	48	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 6 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4874.00	42.43	54.00	-11.57	36.79	7.12	33.53	35.01	146	227	Average	HORIZONTAL
2	4874.30	50.79	74.00	-23.21	45.15	7.12	33.53	35.01	146	227	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.94	41.31	54.00	-12.69	35.67	7.12	33.53	35.01	208	204	Average	VERTICAL
2	4874.01	50.18	74.00	-23.82	44.54	7.12	33.53	35.01	208	204	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 11 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.83	51.14	74.00	-22.86	45.36	7.14	33.65	35.01	150	293	Peak	HORIZONTAL
2	4923.96	43.60	54.00	-10.40	37.82	7.14	33.65	35.01	150	293	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4928.96	47.44	54.00	-6.56	41.66	7.14	33.65	35.01	248	206	Average	VERTICAL
2	4928.96	53.48	74.00	-20.52	47.70	7.14	33.65	35.01	248	206	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 12 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4933.96	51.14	74.00	-22.86	45.36	7.14	33.65	35.01	149	54	Peak	HORIZONTAL
2	4933.99	43.34	54.00	-10.66	37.56	7.14	33.65	35.01	149	54	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4933.86	51.40	74.00	-22.60	45.62	7.14	33.65	35.01	263	60	Peak	VERTICAL
2	4933.91	44.29	54.00	-9.71	38.51	7.14	33.65	35.01	263	60	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 13 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4943.93	45.44	54.00	-8.56	39.63	7.14	33.68	35.01	260	289	Average	HORIZONTAL
2	4944.00	52.15	74.00	-21.85	46.34	7.14	33.68	35.01	260	289	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4943.60	50.96	74.00	-23.04	45.15	7.14	33.68	35.01	149	54	Peak	VERTICAL
2	4944.01	43.70	54.00	-10.30	37.89	7.14	33.68	35.01	149	54	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 1 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4879.77	35.28	54.00	-18.72	29.64	7.12	33.53	35.01	170	326	Average	HORIZONTAL
2	4880.87	48.39	74.00	-25.61	42.75	7.12	33.53	35.01	170	326	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4884.35	36.32	54.00	-17.68	30.64	7.13	33.56	35.01	160	52	Average	VERTICAL
2	4887.43	49.12	74.00	-24.88	43.44	7.13	33.56	35.01	160	52	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 6 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4909.06	35.01	54.00	-18.99	29.30	7.13	33.59	35.01	162	23	Average	HORIZONTAL
2	4912.73	48.69	74.00	-25.31	42.94	7.14	33.62	35.01	162	23	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4909.29	35.06	54.00	-18.94	29.35	7.13	33.59	35.01	155	151	Average	VERTICAL
2	4911.50	48.07	74.00	-25.93	42.32	7.14	33.62	35.01	155	151	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 11 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4929.31	35.22	54.00	-18.78	29.44	7.14	33.65	35.01	170	279	Average	HORIZONTAL
2	4929.57	48.25	74.00	-25.75	42.47	7.14	33.65	35.01	170	279	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4929.73	47.63	74.00	-26.37	41.85	7.14	33.65	35.01	156	73	Peak	VERTICAL
2	4937.44	34.97	54.00	-19.03	29.19	7.14	33.65	35.01	156	73	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 12 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4936.28	35.02	54.00	-18.98	29.24	7.14	33.65	35.01	174	263	Average	HORIZONTAL
2	4936.38	49.10	74.00	-24.90	43.32	7.14	33.65	35.01	174	263	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4935.27	47.95	74.00	-26.05	42.17	7.14	33.65	35.01	171	273	Peak	VERTICAL
2	4937.03	35.07	54.00	-18.93	29.29	7.14	33.65	35.01	171	273	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 13 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4936.37	48.46	74.00	-25.54	42.68	7.14	33.65	35.01	181	248	Peak	HORIZONTAL
2	4936.57	34.99	54.00	-19.01	29.21	7.14	33.65	35.01	181	248	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4934.54	48.29	74.00	-25.71	42.51	7.14	33.65	35.01	177	257	Peak	VERTICAL
2	4937.97	35.04	54.00	-18.96	29.23	7.14	33.68	35.01	177	257	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 1 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4880.99	35.40	54.00	-18.60	29.76	7.12	33.53	35.01	168	325	Average	HORIZONTAL
2	4883.77	48.38	74.00	-25.62	42.70	7.13	33.56	35.01	168	325	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4880.30	49.38	74.00	-24.62	43.74	7.12	33.53	35.01	164	342	Peak	VERTICAL
2	4880.38	36.32	54.00	-17.68	30.68	7.12	33.53	35.01	164	342	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 6 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4909.41	49.08	74.00	-24.92	43.33	7.14	33.62	35.01	178	297	Peak	HORIZONTAL
2	4910.13	35.14	54.00	-18.86	29.39	7.14	33.62	35.01	178	297	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4908.65	35.26	54.00	-18.74	29.55	7.13	33.59	35.01	173	311	Average	VERTICAL
2	4912.20	48.63	74.00	-25.37	42.88	7.14	33.62	35.01	173	311	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 11 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4918.50	49.31	74.00	-24.69	43.56	7.14	33.62	35.01	170	319	Peak	HORIZONTAL
2	4927.76	35.20	54.00	-18.80	29.42	7.14	33.65	35.01	170	319	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4922.33	48.97	74.00	-25.03	43.22	7.14	33.62	35.01	155	330	Peak	VERTICAL
2	4925.93	35.22	54.00	-18.78	29.44	7.14	33.65	35.01	155	330	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 12 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4931.81	48.50	74.00	-25.50	42.72	7.14	33.65	35.01	176	282	Peak	HORIZONTAL
2	4931.89	35.05	54.00	-18.95	29.27	7.14	33.65	35.01	176	282	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4934.28	48.30	74.00	-25.70	42.52	7.14	33.65	35.01	183	247	Peak	VERTICAL
2	4936.16	35.03	54.00	-18.97	29.25	7.14	33.65	35.01	183	247	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 13 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4945.04	47.97	74.00	-26.03	42.16	7.14	33.68	35.01	182	214	Peak	HORIZONTAL
2	4946.16	35.02	54.00	-18.98	29.21	7.14	33.68	35.01	182	214	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4944.98	35.00	54.00	-19.00	29.19	7.14	33.68	35.01	178	190	Average	VERTICAL
2	4945.30	48.17	74.00	-25.83	42.36	7.14	33.68	35.01	178	190	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 3 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.15	34.83	54.00	-19.17	29.26	7.11	33.47	35.01	175	163	Average	HORIZONTAL
2	4843.49	48.34	74.00	-25.66	42.77	7.11	33.47	35.01	175	163	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.41	34.86	54.00	-19.14	29.29	7.11	33.47	35.01	172	141	Average	VERTICAL
2	4844.41	48.48	74.00	-25.52	42.91	7.11	33.47	35.01	172	141	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 6 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4874.28	35.44	54.00	-18.56	29.80	7.12	33.53	35.01	169	118	Average	HORIZONTAL
2	4875.42	48.85	74.00	-25.15	43.21	7.12	33.53	35.01	169	118	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4872.97	35.41	54.00	-18.59	29.77	7.12	33.53	35.01	164	87	Average	VERTICAL
2	4874.31	48.90	74.00	-25.10	43.26	7.12	33.53	35.01	164	87	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 9 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4901.76	48.24	74.00	-25.76	42.53	7.13	33.59	35.01	168	142	Peak	HORIZONTAL
2	4901.94	35.36	54.00	-18.64	29.65	7.13	33.59	35.01	168	142	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.83	35.37	54.00	-18.63	29.66	7.13	33.59	35.01	170	167	Average	VERTICAL
2	4905.95	48.44	74.00	-25.56	42.73	7.13	33.59	35.01	170	167	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 10 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4914.09	48.33	74.00	-25.67	42.58	7.14	33.62	35.01	170	250 Peak	HORIZONTAL
2	4915.39	35.15	54.00	-18.85	29.40	7.14	33.62	35.01	170	250 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	4914.00	49.32	74.00	-24.68	43.57	7.14	33.62	35.01	168	202 Peak	VERTICAL
2	4915.25	35.10	54.00	-18.90	29.35	7.14	33.62	35.01	168	202 Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 11 / Chain 1
Test Date	Feb. 26, 2016	Test Mode	Mode 3

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4921.80	49.23	74.00	-24.77	43.48	7.14	33.62	35.01	172	282	Peak	HORIZONTAL
2	4925.93	35.19	54.00	-18.81	29.41	7.14	33.65	35.01	172	282	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4924.38	48.80	74.00	-25.20	43.02	7.14	33.65	35.01	178	308	Peak	VERTICAL
2	4925.84	35.25	54.00	-18.75	29.47	7.14	33.65	35.01	178	308	Average	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.

4.6. Emissions Measurement

4.6.1. 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 (micorvolts/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

4.6.2. 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)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (30dBc in any 100 kHz bandwidth emission)	100 kHz / 300 kHz for Peak

4.6.3. Test Procedures

For Radiated band edges Measurement:

1. The test procedure is the same as section 4.5.3.

For Radiated Out of Band Emission Measurement:

1. Test was performed in accordance with KDB558074 D01 v03r04 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.

4.6.4. Test Setup Layout

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.5.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 1	Test Date	Feb. 27, 2016

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	47.49	54.00	-6.51	14.32	4.96	28.21	0.00	177	122	Average	VERTICAL
2	2390.00	60.40	74.00	-13.60	27.23	4.96	28.21	0.00	177	122	Peak	VERTICAL
3	2412.00	104.30			71.05	4.99	28.26	0.00	177	122	Peak	VERTICAL
4	2412.72	101.34			68.09	4.99	28.26	0.00	177	122	Average	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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2354.80	48.31	54.00	-5.69	15.23	4.93	28.15	0.00	239	121	Average	VERTICAL
2	2367.25	61.40	74.00	-12.60	28.28	4.94	28.18	0.00	239	121	Peak	VERTICAL
3	2436.13	102.95			69.65	5.01	28.29	0.00	239	121	Average	VERTICAL
4	2437.00	105.86			72.56	5.01	28.29	0.00	239	121	Peak	VERTICAL
5	2483.50	48.03	54.00	-5.97	14.59	5.06	28.38	0.00	239	121	Average	VERTICAL
6	2484.95	61.16	74.00	-12.84	27.72	5.06	28.38	0.00	239	121	Peak	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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2461.86	104.59			71.21	5.04	28.34	0.00	158	270	Peak	VERTICAL
2	2462.72	101.63			68.25	5.04	28.34	0.00	158	270	Average	VERTICAL
3	2483.50	48.00	54.00	-6.00	14.56	5.06	28.38	0.00	158	270	Average	VERTICAL
4	2483.50	60.89	74.00	-13.11	27.45	5.06	28.38	0.00	158	270	Peak	VERTICAL

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

Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2466.28	102.63			69.25	5.04	28.34	0.00	169	119	Average	VERTICAL
2	2466.86	105.58			72.20	5.04	28.34	0.00	169	119	Peak	VERTICAL
3	2483.93	61.51	74.00	-12.49	28.07	5.06	28.38	0.00	169	119	Peak	VERTICAL
4	2484.08	48.84	54.00	-5.16	15.40	5.06	28.38	0.00	169	119	Average	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	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2471.13	103.30			69.90	5.05	28.35	0.00	174	120	Average	VERTICAL
2	2472.00	106.25			72.85	5.05	28.35	0.00	174	120	Peak	VERTICAL
3	2483.50	64.03	74.00	-9.97	30.59	5.06	28.38	0.00	174	120	Peak	VERTICAL
4	2483.87	51.78	54.00	-2.22	18.34	5.06	28.38	0.00	174	120	Average	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 1	Test Date	Feb. 27, 2016

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2364.39	47.84	54.00	-6.16	14.72	4.94	28.18	0.00	175	119	Average	VERTICAL
2	2371.33	61.37	74.00	-12.63	28.23	4.95	28.19	0.00	175	119	Peak	VERTICAL
3	2405.63	103.61			70.38	4.98	28.25	0.00	175	119	Peak	VERTICAL
4	2405.92	94.09			60.86	4.98	28.25	0.00	175	119	Average	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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2350.17	48.50	54.00	-5.50	15.42	4.93	28.15	0.00	176	262	Average	VERTICAL
2	2362.33	61.89	74.00	-12.11	28.78	4.94	28.17	0.00	176	262	Peak	VERTICAL
3	2430.63	104.92			71.63	5.01	28.28	0.00	176	262	Peak	VERTICAL
4	2430.92	95.45			62.16	5.01	28.28	0.00	176	262	Average	VERTICAL
5	2487.55	48.06	54.00	-5.94	14.62	5.06	28.38	0.00	176	262	Average	VERTICAL
6	2498.26	60.83	74.00	-13.17	27.35	5.08	28.40	0.00	176	262	Peak	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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2459.40	92.16			58.80	5.03	28.33	0.00	129	350	Average	HORIZONTAL
2	2463.59	101.58			68.20	5.04	28.34	0.00	129	350	Peak	HORIZONTAL
3	2483.71	62.64	74.00	-11.36	29.20	5.06	28.38	0.00	129	350	Peak	HORIZONTAL
4	2485.30	48.42	54.00	-5.58	14.98	5.06	28.38	0.00	129	350	Average	HORIZONTAL

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

Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2464.54	91.96			58.58	5.04	28.34	0.00	167	119	Average	VERTICAL
2	2468.45	101.36			67.96	5.05	28.35	0.00	167	119	Peak	VERTICAL
3	2483.79	48.66	54.00	-5.34	15.22	5.06	28.38	0.00	167	119	Average	VERTICAL
4	2489.87	61.95	74.00	-12.05	28.49	5.07	28.39	0.00	167	119	Peak	VERTICAL

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

Channel 13

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2469.40	88.91			55.51	5.05	28.35	0.00	211	119	Average	VERTICAL
2	2473.45	98.38			64.98	5.05	28.35	0.00	211	119	Peak	VERTICAL
3	2483.50	51.98	54.00	-2.02	18.54	5.06	28.38	0.00	211	119	Average	VERTICAL
4	2483.50	71.16	74.00	-2.84	37.72	5.06	28.38	0.00	211	119	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 1	Test Date	Feb. 27, 2016

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2365.40	61.28	74.00	-12.72	28.16	4.94	28.18	0.00	176	120	Peak	VERTICAL
2	2387.98	47.84	54.00	-6.16	14.67	4.96	28.21	0.00	176	120	Average	VERTICAL
3	2404.91	93.21			59.98	4.98	28.25	0.00	176	120	Average	VERTICAL
4	2409.11	103.00			69.77	4.98	28.25	0.00	176	120	Peak	VERTICAL

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

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2343.22	61.52	74.00	-12.48	28.46	4.92	28.14	0.00	168	119	Peak	VERTICAL
2	2352.20	48.84	54.00	-5.16	15.76	4.93	28.15	0.00	168	119	Average	VERTICAL
3	2430.05	95.84			62.55	5.01	28.28	0.00	168	119	Average	VERTICAL
4	2434.11	105.38			72.08	5.01	28.29	0.00	168	119	Peak	VERTICAL
5	2488.13	61.24	74.00	-12.76	27.80	5.06	28.38	0.00	168	119	Peak	VERTICAL
6	2493.44	47.99	54.00	-6.01	14.53	5.07	28.39	0.00	168	119	Average	VERTICAL

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

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2454.91	90.47			57.11	5.03	28.33	0.00	126	348	Average	HORIZONTAL
2	2459.11	100.49			67.13	5.03	28.33	0.00	126	348	Peak	HORIZONTAL
3	2490.08	48.37	54.00	-5.63	14.91	5.07	28.39	0.00	126	348	Average	HORIZONTAL
4	2497.46	61.36	74.00	-12.64	27.88	5.08	28.40	0.00	126	348	Peak	HORIZONTAL

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

Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2460.05	89.60			56.24	5.03	28.33	0.00	129	350	Average	HORIZONTAL
2	2464.11	99.44			66.06	5.04	28.34	0.00	129	350	Peak	HORIZONTAL
3	2483.64	48.52	54.00	-5.48	15.08	5.06	28.38	0.00	129	350	Average	HORIZONTAL
4	2499.71	61.76	74.00	-12.24	28.28	5.08	28.40	0.00	129	350	Peak	HORIZONTAL

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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2469.11	96.79			63.39	5.05	28.35	0.00	211	120	Peak	VERTICAL
2	2469.54	86.72			53.32	5.05	28.35	0.00	211	120	Average	VERTICAL
3	2483.50	51.57	54.00	-2.43	18.13	5.06	28.38	0.00	211	120	Average	VERTICAL
4	2483.50	71.95	74.00	-2.05	38.51	5.06	28.38	0.00	211	120	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 3, 6, 9, 10, 11 /Chain 1
Test Mode	Mode 1	Test Date	Feb. 27, 2016

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2332.56	48.64	54.00	-5.36	15.61	4.91	28.12	0.00	174	120	Average	VERTICAL
2	2390.00	61.15	74.00	-12.85	27.98	4.96	28.21	0.00	174	120	Peak	VERTICAL
3	2404.92	90.45			57.22	4.98	28.25	0.00	174	120	Average	VERTICAL
4	2407.24	100.03			66.80	4.98	28.25	0.00	174	120	Peak	VERTICAL

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

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2344.96	61.59	74.00	-12.41	28.53	4.92	28.14	0.00	108	184	Peak	HORIZONTAL
2	2360.59	47.90	54.00	-6.10	14.79	4.94	28.17	0.00	108	184	Average	HORIZONTAL
3	2419.92	88.45			55.18	5.00	28.27	0.00	108	184	Average	HORIZONTAL
4	2422.24	98.06			64.79	5.00	28.27	0.00	108	184	Peak	HORIZONTAL
5	2484.66	61.17	74.00	-12.83	27.73	5.06	28.38	0.00	108	184	Peak	HORIZONTAL
6	2489.00	48.20	54.00	-5.80	14.76	5.06	28.38	0.00	108	184	Average	HORIZONTAL

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

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2436.95	99.85			66.55	5.01	28.29	0.00	239	122	Peak	VERTICAL
2	2438.40	90.04			56.74	5.01	28.29	0.00	239	122	Average	VERTICAL
3	2484.13	48.75	54.00	-5.25	15.31	5.06	28.38	0.00	239	122	Average	VERTICAL
4	2496.52	60.34	74.00	-13.66	26.86	5.08	28.40	0.00	239	122	Peak	VERTICAL

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

Channel 10

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2442.24	99.37			66.04	5.02	28.31	0.00	242	122	Peak	VERTICAL
2	2443.40	89.45			56.12	5.02	28.31	0.00	242	122	Average	VERTICAL
3	2483.92	49.28	54.00	-4.72	15.84	5.06	28.38	0.00	242	122	Average	VERTICAL
4	2491.15	61.08	74.00	-12.92	27.62	5.07	28.39	0.00	242	122	Peak	VERTICAL

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

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2447.24	90.83			57.48	5.03	28.32	0.00	231	122	Peak	VERTICAL
2	2448.40	80.52			47.17	5.03	28.32	0.00	231	122	Average	VERTICAL
3	2483.50	65.24	74.00	-8.76	31.80	5.06	28.38	0.00	231	122	Peak	VERTICAL
4	2483.71	51.67	54.00	-2.33	18.23	5.06	28.38	0.00	231	122	Average	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 2	Test Date	Feb. 24, 2016

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2373.86	60.12	74.00	-13.88	27.70	4.50	27.92	0.00	236	177	Peak	HORIZONTAL
2	2390.00	48.28	54.00	-5.72	15.86	4.52	27.90	0.00	236	177	Average	HORIZONTAL
3	2411.04	108.00			75.57	4.55	27.88	0.00	236	177	Peak	HORIZONTAL
4	2411.36	104.42			71.99	4.55	27.88	0.00	236	177	Average	HORIZONTAL

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

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2370.65	60.14	74.00	-13.86	27.72	4.50	27.92	0.00	204	216	Peak	HORIZONTAL
2	2373.54	48.36	54.00	-5.64	15.94	4.50	27.92	0.00	204	216	Average	HORIZONTAL
3	2436.36	103.64			71.21	4.57	27.86	0.00	204	216	Average	HORIZONTAL
4	2436.36	107.28			74.85	4.57	27.86	0.00	204	216	Peak	HORIZONTAL
5	2484.78	47.92	54.00	-6.08	15.50	4.61	27.81	0.00	204	216	Average	HORIZONTAL
6	2488.31	59.66	74.00	-14.34	27.24	4.61	27.81	0.00	204	216	Peak	HORIZONTAL

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

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2461.04	105.43			73.01	4.59	27.83	0.00	181	212	Peak	HORIZONTAL
2	2461.36	101.87			69.45	4.59	27.83	0.00	181	212	Average	HORIZONTAL
3	2483.50	47.91	54.00	-6.09	15.49	4.61	27.81	0.00	181	212	Average	HORIZONTAL
4	2492.93	59.26	74.00	-14.74	26.84	4.61	27.81	0.00	181	212	Peak	HORIZONTAL

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



Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2466.04	105.37			72.95	4.59	27.83	0.00	200	213 Peak	HORIZONTAL
2	2466.36	101.80			69.38	4.59	27.83	0.00	200	213 Average	HORIZONTAL
3	2483.83	48.45	54.00	-5.55	16.03	4.61	27.81	0.00	200	213 Average	HORIZONTAL
4	2484.63	59.55	74.00	-14.45	27.13	4.61	27.81	0.00	200	213 Peak	HORIZONTAL

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

Channel 13

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2471.36	103.16			70.73	4.60	27.83	0.00	216	210 Average	HORIZONTAL
2	2472.96	106.74			74.31	4.60	27.83	0.00	216	210 Peak	HORIZONTAL
3	2483.50	51.61	54.00	-2.39	19.19	4.61	27.81	0.00	216	210 Average	HORIZONTAL
4	2483.70	60.45	74.00	-13.55	28.03	4.61	27.81	0.00	216	210 Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 2	Test Date	Feb. 24, 2016

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	51.93	54.00	-2.07	19.51	4.52	27.90	0.00	137	347	Average	HORIZONTAL
2	2390.00	66.57	74.00	-7.43	34.15	4.52	27.90	0.00	137	347	Peak	HORIZONTAL
3	2405.59	94.68			62.25	4.55	27.88	0.00	137	347	Average	HORIZONTAL
4	2405.59	104.27			71.84	4.55	27.88	0.00	137	347	Peak	HORIZONTAL

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

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2356.87	48.92	54.00	-5.08	16.51	4.48	27.93	0.00	101	345	Average	HORIZONTAL
2	2376.10	61.17	74.00	-12.83	28.75	4.50	27.92	0.00	101	345	Peak	HORIZONTAL
3	2430.59	94.12			61.70	4.56	27.86	0.00	101	345	Average	HORIZONTAL
4	2430.59	103.77			71.35	4.56	27.86	0.00	101	345	Peak	HORIZONTAL
5	2483.50	47.93	54.00	-6.07	15.51	4.61	27.81	0.00	101	345	Average	HORIZONTAL
6	2492.45	59.50	74.00	-14.50	27.08	4.61	27.81	0.00	101	345	Peak	HORIZONTAL

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

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2455.43	93.81			61.38	4.59	27.84	0.00	199	212	Average	HORIZONTAL
2	2455.59	103.38			70.95	4.59	27.84	0.00	199	212	Peak	HORIZONTAL
3	2484.76	48.16	54.00	-5.84	15.74	4.61	27.81	0.00	199	212	Average	HORIZONTAL
4	2489.91	59.50	74.00	-14.50	27.08	4.61	27.81	0.00	199	212	Peak	HORIZONTAL

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

Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2460.43	91.31			58.88	4.59	27.84	0.00	182	213	Average	HORIZONTAL
2	2460.75	100.82			68.40	4.59	27.83	0.00	182	213	Peak	HORIZONTAL
3	2483.50	48.57	54.00	-5.43	16.15	4.61	27.81	0.00	182	213	Average	HORIZONTAL
4	2484.79	59.95	74.00	-14.05	27.53	4.61	27.81	0.00	182	213	Peak	HORIZONTAL

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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2469.76	88.61			56.18	4.60	27.83	0.00	220	209	Average	HORIZONTAL
2	2473.44	98.18			65.75	4.60	27.83	0.00	220	209	Peak	HORIZONTAL
3	2483.50	51.91	54.00	-2.09	19.49	4.61	27.81	0.00	220	209	Average	HORIZONTAL
4	2483.50	70.55	74.00	-3.45	38.13	4.61	27.81	0.00	220	209	Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 2	Test Date	Feb. 24, 2016

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2389.24	70.78	74.00	-3.22	38.36	4.52	27.90	0.00	146	349	Peak	HORIZONTAL
2	2390.00	51.60	54.00	-2.40	19.18	4.52	27.90	0.00	146	349	Average	HORIZONTAL
3	2404.15	102.79			70.36	4.54	27.89	0.00	146	349	Peak	HORIZONTAL
4	2405.11	93.58			61.15	4.55	27.88	0.00	146	349	Average	HORIZONTAL

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

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2356.87	48.77	54.00	-5.23	16.36	4.48	27.93	0.00	101	348	Average	HORIZONTAL
2	2368.41	60.67	74.00	-13.33	28.26	4.49	27.92	0.00	101	348	Peak	HORIZONTAL
3	2430.27	103.01			70.59	4.56	27.86	0.00	101	348	Peak	HORIZONTAL
4	2431.23	93.78			61.36	4.56	27.86	0.00	101	348	Average	HORIZONTAL
5	2483.50	47.80	54.00	-6.20	15.38	4.61	27.81	0.00	101	348	Average	HORIZONTAL
6	2488.95	59.13	74.00	-14.87	26.71	4.61	27.81	0.00	101	348	Peak	HORIZONTAL

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

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2454.95	92.77			60.34	4.59	27.84	0.00	196	214	Average	VERTICAL
2	2455.11	102.17			69.74	4.59	27.84	0.00	196	214	Peak	VERTICAL
3	2483.50	48.14	54.00	-5.86	15.72	4.61	27.81	0.00	196	214	Average	VERTICAL
4	2485.88	60.67	74.00	-13.33	28.25	4.61	27.81	0.00	196	214	Peak	VERTICAL

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



Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2461.39	91.11			58.69	4.59	27.83	0.00	200	212	Average	VERTICAL
2	2463.80	100.54			68.12	4.59	27.83	0.00	200	212	Peak	VERTICAL
3	2483.83	48.49	54.00	-5.51	16.07	4.61	27.81	0.00	200	212	Average	VERTICAL
4	2484.94	59.89	74.00	-14.11	27.47	4.61	27.81	0.00	200	212	Peak	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	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2468.96	98.36			65.93	4.60	27.83	0.00	214	209	Peak	HORIZONTAL
2	2475.05	88.14			55.72	4.60	27.82	0.00	214	209	Average	HORIZONTAL
3	2483.50	51.85	54.00	-2.15	19.43	4.61	27.81	0.00	214	209	Average	HORIZONTAL
4	2483.70	70.23	74.00	-3.77	37.81	4.61	27.81	0.00	214	209	Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 3, 6, 9, 10, 11 /Chain 1
Test Mode	Mode 2	Test Date	Feb. 24, 2016

Channel 3S

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2388.03	66.76	74.00	-7.24	34.34	4.52	27.90	0.00	145	345	Peak	HORIZONTAL
2	2390.00	53.11	54.00	-0.89	20.69	4.52	27.90	0.00	145	345	Average	HORIZONTAL
3	2404.69	90.02			57.59	4.55	27.88	0.00	145	345	Average	HORIZONTAL
4	2405.33	99.67			67.24	4.55	27.88	0.00	145	345	Peak	HORIZONTAL

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

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2374.50	48.66	54.00	-5.34	16.24	4.50	27.92	0.00	105	349	Average	HORIZONTAL
2	2385.72	60.19	74.00	-13.81	27.77	4.52	27.90	0.00	105	349	Peak	HORIZONTAL
3	2420.01	89.21			56.78	4.56	27.87	0.00	105	349	Average	HORIZONTAL
4	2423.22	97.99			65.56	4.56	27.87	0.00	105	349	Peak	HORIZONTAL
5	2484.46	47.92	54.00	-6.08	15.50	4.61	27.81	0.00	105	349	Average	HORIZONTAL
6	2484.78	59.66	74.00	-14.34	27.24	4.61	27.81	0.00	105	349	Peak	HORIZONTAL

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

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2435.01	91.29			58.86	4.57	27.86	0.00	224	213	Average	HORIZONTAL
2	2438.22	100.35			67.92	4.57	27.86	0.00	224	213	Peak	HORIZONTAL
3	2483.50	48.56	54.00	-5.44	16.14	4.61	27.81	0.00	224	213	Average	HORIZONTAL
4	2486.62	60.62	74.00	-13.38	28.20	4.61	27.81	0.00	224	213	Peak	HORIZONTAL

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



Channel 10

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2440.01	89.65			57.23	4.57	27.85	0.00	225	213	Average	HORIZONTAL
2	2440.65	98.61			66.19	4.57	27.85	0.00	225	213	Peak	HORIZONTAL
3	2483.50	48.97	54.00	-5.03	16.55	4.61	27.81	0.00	225	213	Average	HORIZONTAL
4	2488.95	60.38	74.00	-13.62	27.96	4.61	27.81	0.00	225	213	Peak	HORIZONTAL

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

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2448.86	82.41			49.98	4.58	27.85	0.00	196	213	Average	HORIZONTAL
2	2454.63	92.16			59.73	4.59	27.84	0.00	196	213	Peak	HORIZONTAL
3	2483.50	64.95	74.00	-9.05	32.53	4.61	27.81	0.00	196	213	Peak	HORIZONTAL
4	2483.80	51.81	54.00	-2.19	19.39	4.61	27.81	0.00	196	213	Average	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11b CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 3	Test Date	Feb. 26, 2016

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2375.80	57.08	74.00	-16.92	25.32	3.72	28.04	92	155	Peak	VERTICAL
2	2385.80	45.34	54.00	-8.66	13.59	3.73	28.02	92	155	Average	VERTICAL
3	2411.20	103.21			71.47	3.75	27.99	92	155	Average	VERTICAL
4	2413.00	107.00			75.26	3.75	27.99	92	155	Peak	VERTICAL

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

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2387.80	45.06	54.00	-8.94	13.31	3.73	28.02	93	173	Average	VERTICAL
2	2389.00	57.13	74.00	-16.87	25.38	3.73	28.02	93	173	Peak	VERTICAL
3	2436.20	107.65			75.91	3.77	27.97	93	173	Peak	VERTICAL
4	2436.20	103.82			72.08	3.77	27.97	93	173	Average	VERTICAL
5	2485.10	44.35	54.00	-9.65	12.62	3.81	27.92	93	173	Average	VERTICAL
6	2493.80	56.45	74.00	-17.55	24.72	3.82	27.91	93	173	Peak	VERTICAL

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

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2461.20	107.05			75.32	3.79	27.94	91	149	Peak	VERTICAL
2	2461.20	103.27			71.54	3.79	27.94	91	149	Average	VERTICAL
3	2483.90	44.75	54.00	-9.25	13.02	3.81	27.92	91	149	Average	VERTICAL
4	2497.80	56.38	74.00	-17.62	24.65	3.83	27.90	91	149	Peak	VERTICAL

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

Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2466.40	103.39			71.66	3.79	27.94	0.00	93	168 Average	VERTICAL
2	2468.00	107.20			75.47	3.80	27.93	0.00	93	168 Peak	VERTICAL
3	2484.20	46.20	54.00	-7.80	14.47	3.81	27.92	0.00	93	168 Average	VERTICAL
4	2498.80	56.36	74.00	-17.64	24.63	3.83	27.90	0.00	93	168 Peak	VERTICAL

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

Channel 13

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2471.00	107.31			75.58	3.80	27.93	0.00	94	157 Peak	VERTICAL
2	2471.40	103.57			71.84	3.80	27.93	0.00	94	157 Average	VERTICAL
3	2483.80	51.68	54.00	-2.32	19.95	3.81	27.92	0.00	94	157 Average	VERTICAL
4	2484.00	61.03	74.00	-12.97	29.30	3.81	27.92	0.00	94	157 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11g CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 3	Test Date	Feb. 26, 2016

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2389.20	57.11	74.00	-16.89	25.36	3.73	28.02	0.00	95	189 Peak	VERTICAL
2	2390.00	46.29	54.00	-7.71	14.54	3.73	28.02	0.00	95	189 Average	VERTICAL
3	2405.40	97.60			65.85	3.75	28.00	0.00	95	189 Average	VERTICAL
4	2405.60	107.16			75.41	3.75	28.00	0.00	95	189 Peak	VERTICAL

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

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2357.00	46.44	54.00	-7.56	14.68	3.70	28.06	0.00	102	244 Average	VERTICAL
2	2381.40	57.47	74.00	-16.53	25.72	3.72	28.03	0.00	102	244 Peak	VERTICAL
3	2430.60	107.59			75.85	3.76	27.98	0.00	102	244 Peak	VERTICAL
4	2430.60	98.00			66.26	3.76	27.98	0.00	102	244 Average	VERTICAL
5	2484.70	44.54	54.00	-9.46	12.81	3.81	27.92	0.00	102	244 Average	VERTICAL
6	2492.70	56.15	74.00	-17.85	24.42	3.82	27.91	0.00	102	244 Peak	VERTICAL

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

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2455.60	104.79			73.05	3.79	27.95	0.00	102	246 Peak	VERTICAL
2	2455.60	95.32			63.58	3.79	27.95	0.00	102	246 Average	VERTICAL
3	2483.80	58.18	74.00	-15.82	26.45	3.81	27.92	0.00	102	246 Peak	VERTICAL
4	2483.80	45.35	54.00	-8.65	13.62	3.81	27.92	0.00	102	246 Average	VERTICAL

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

Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2460.40	93.20			61.46	3.79	27.95	0.00	94	210	Average	VERTICAL
2	2460.60	102.68			70.95	3.79	27.94	0.00	94	210	Peak	VERTICAL
3	2483.50	45.67	54.00	-8.33	13.94	3.81	27.92	0.00	94	210	Average	VERTICAL
4	2486.80	56.85	74.00	-17.15	25.12	3.81	27.92	0.00	94	210	Peak	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	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2465.60	101.09			69.36	3.79	27.94	0.00	92	155	Peak	VERTICAL
2	2469.60	91.96			60.23	3.80	27.93	0.00	92	155	Average	VERTICAL
3	2483.50	71.87	74.00	-2.13	40.14	3.81	27.92	0.00	92	155	Peak	VERTICAL
4	2483.50	51.99	54.00	-2.01	20.26	3.81	27.92	0.00	92	155	Average	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT20 CH 1, 6, 11, 12, 13 / Chain 1
Test Mode	Mode 3	Test Date	Feb. 26, 2016

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	48.09	54.00	-5.91	14.92	4.96	28.21	0.00	202	16 Average	VERTICAL
2	2390.43	62.18	74.00	-11.82	28.99	4.97	28.22	0.00	202	16 Peak	VERTICAL
3	2406.36	95.27			62.04	4.98	28.25	0.00	202	16 Average	VERTICAL
4	2408.96	106.33			73.10	4.98	28.25	0.00	202	16 Peak	VERTICAL

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

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2390.00	60.66	74.00	-13.34	27.49	4.96	28.21	0.00	149	17 Peak	VERTICAL
2	2390.43	48.71	54.00	-5.29	15.52	4.97	28.22	0.00	149	17 Average	VERTICAL
3	2430.05	99.55			66.26	5.01	28.28	0.00	149	17 Average	VERTICAL
4	2432.37	108.93			75.63	5.01	28.29	0.00	149	17 Peak	VERTICAL
5	2483.50	48.95	54.00	-5.05	15.51	5.06	28.38	0.00	149	17 Average	VERTICAL
6	2483.50	60.72	74.00	-13.28	27.28	5.06	28.38	0.00	149	17 Peak	VERTICAL

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

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	2455.05	98.42			65.06	5.03	28.33	0.00	207	18 Average	VERTICAL
2	2459.11	108.07			74.71	5.03	28.33	0.00	207	18 Peak	VERTICAL
3	2483.50	50.02	54.00	-3.98	16.58	5.06	28.38	0.00	207	18 Average	VERTICAL
4	2483.50	62.64	74.00	-11.36	29.20	5.06	28.38	0.00	207	18 Peak	VERTICAL

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



Channel 12

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2464.11	104.84			71.46	5.04	28.34	0.00	182	18	Peak	VERTICAL
2	2470.18	94.82			61.42	5.05	28.35	0.00	182	18	Average	VERTICAL
3	2483.50	49.56	54.00	-4.44	16.12	5.06	28.38	0.00	182	18	Average	VERTICAL
4	2483.50	58.29	74.00	-15.71	24.85	5.06	28.38	0.00	182	18	Peak	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	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2469.11	98.87			65.47	5.05	28.35	0.00	211	17	Peak	VERTICAL
2	2469.40	88.19			54.79	5.05	28.35	0.00	211	17	Average	VERTICAL
3	2483.50	51.92	54.00	-2.08	18.48	5.06	28.38	0.00	211	17	Average	VERTICAL
4	2483.50	71.49	74.00	-2.51	38.05	5.06	28.38	0.00	211	17	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Gary Chu	Configurations	IEEE 802.11n MCS0 HT40 CH 3, 6, 9, 10, 11 /Chain 1
Test Mode	Mode 3	Test Date	Feb. 26, 2016

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	50.34	54.00	-3.66	17.17	4.96	28.21	0.00	150	26	Average	VERTICAL
2	2390.00	61.19	74.00	-12.81	28.02	4.96	28.21	0.00	150	26	Peak	VERTICAL
3	2411.15	102.70			69.47	4.98	28.25	0.00	150	26	Peak	VERTICAL
4	2454.56	95.25			61.89	5.03	28.33	0.00	150	26	Average	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	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	48.86	54.00	-5.14	15.69	4.96	28.21	0.00	143	26	Average	VERTICAL
2	2390.00	59.58	74.00	-14.42	26.41	4.96	28.21	0.00	143	26	Peak	VERTICAL
3	2429.76	102.93			69.64	5.01	28.28	0.00	143	26	Peak	VERTICAL
4	2433.38	93.12			59.82	5.01	28.29	0.00	143	26	Average	VERTICAL
5	2483.50	49.09	54.00	-4.91	15.65	5.06	28.38	0.00	143	26	Average	VERTICAL
6	2483.50	60.61	74.00	-13.39	27.17	5.06	28.38	0.00	143	26	Peak	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	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2441.15	102.33			69.00	5.02	28.31	0.00	160	18	Peak	VERTICAL
2	2448.38	93.13			59.78	5.03	28.32	0.00	160	18	Average	VERTICAL
3	2483.50	49.69	54.00	-4.31	16.25	5.06	28.38	0.00	160	18	Average	VERTICAL
4	2483.50	59.83	74.00	-14.17	26.39	5.06	28.38	0.00	160	18	Peak	VERTICAL

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

Channel 10

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2447.59	92.19			58.84	5.03	28.32	0.00	166	25	Average	VERTICAL
2	2447.59	101.63			68.28	5.03	28.32	0.00	166	25	Peak	VERTICAL
3	2483.50	51.03	54.00	-2.97	17.59	5.06	28.38	0.00	166	25	Average	VERTICAL
4	2483.50	61.77	74.00	-12.23	28.33	5.06	28.38	0.00	166	25	Peak	VERTICAL

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

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2460.55	79.54			46.16	5.04	28.34	0.00	155	30	Average	VERTICAL
2	2464.89	89.05			55.67	5.04	28.34	0.00	155	30	Peak	VERTICAL
3	2483.50	51.89	54.00	-2.11	18.45	5.06	28.38	0.00	155	30	Average	VERTICAL
4	2483.50	65.01	74.00	-8.99	31.57	5.06	28.38	0.00	155	30	Peak	VERTICAL

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

Note:

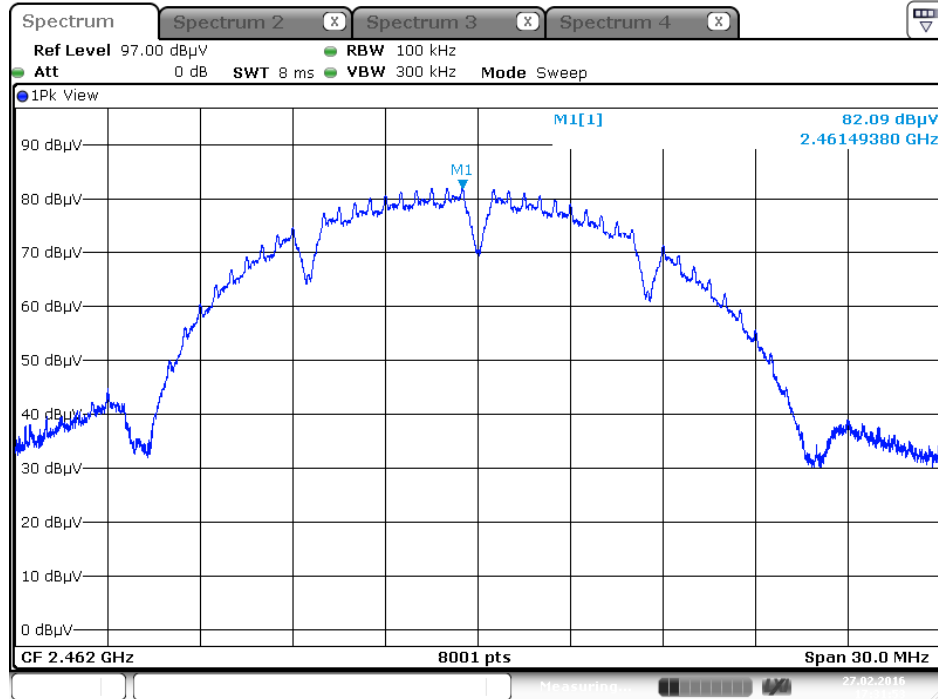
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

For Emission not in Restricted Band

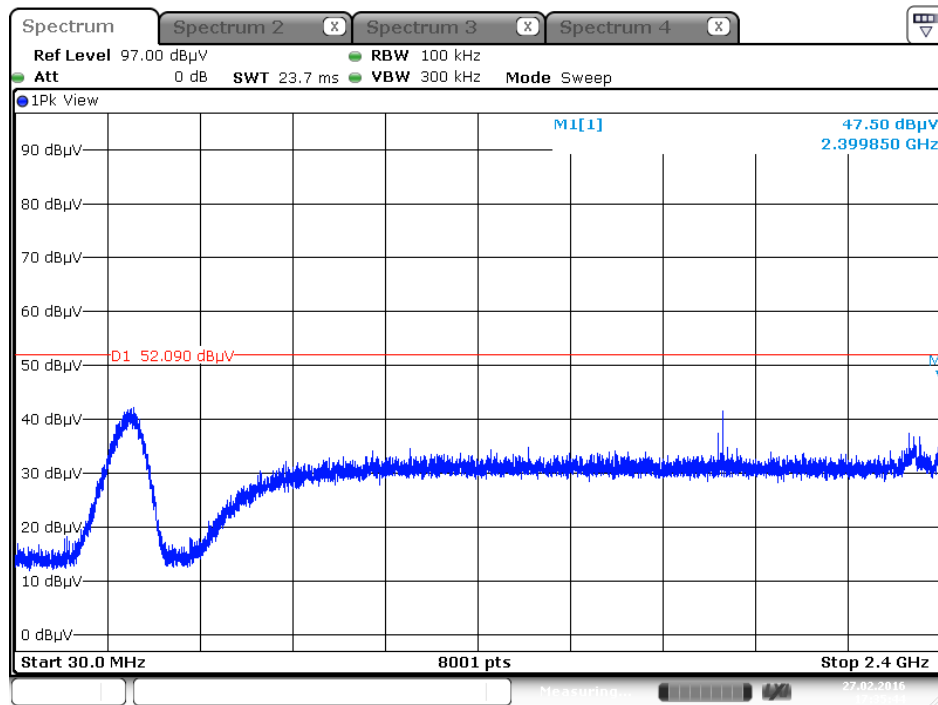
Test Moe: Mode 1

Plot on Configuration IEEE 802.11b / Reference Level

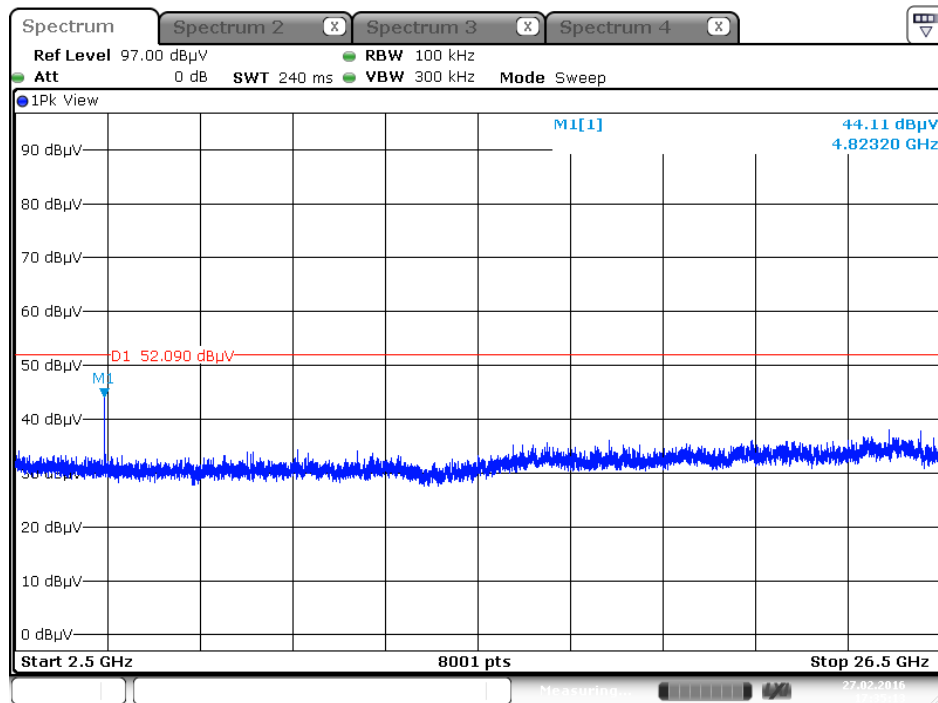


Date: 27.FEB.2016 17:31:54

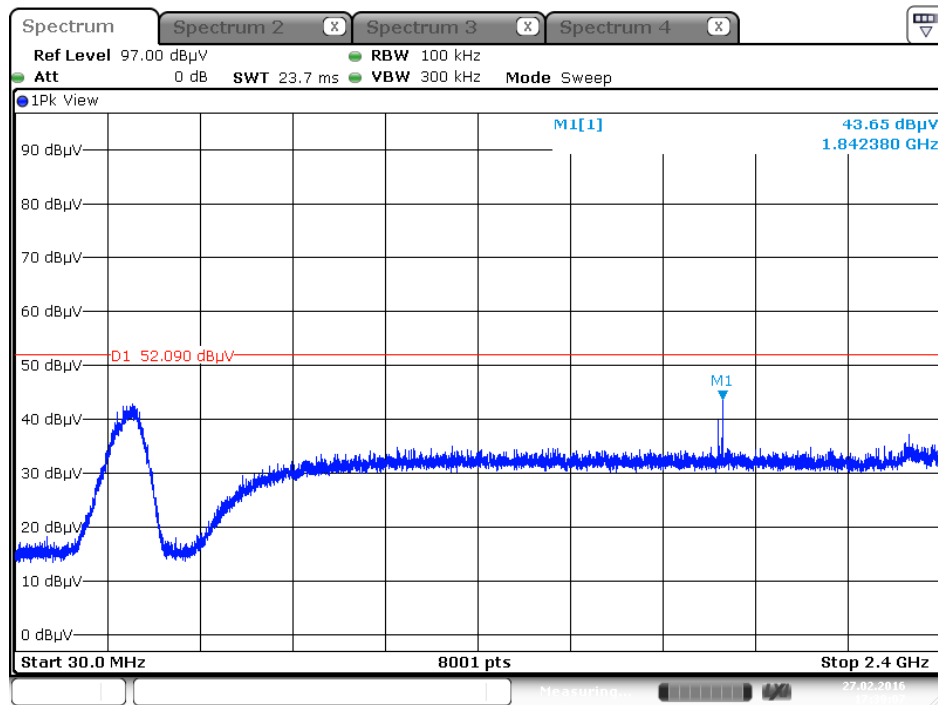
Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



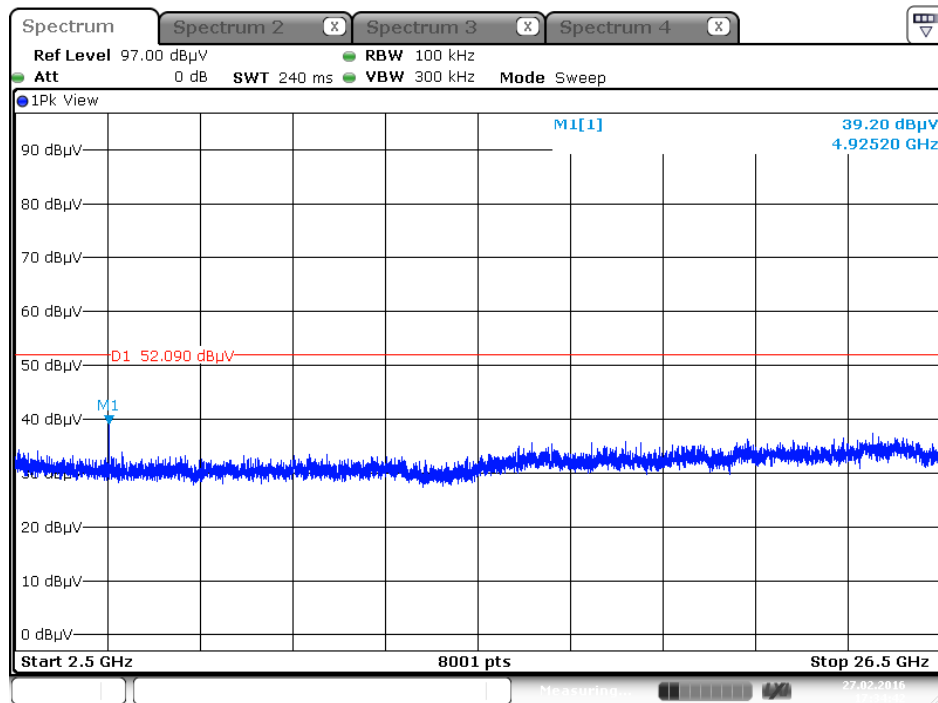
Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~2650MHz (down 30dBc)



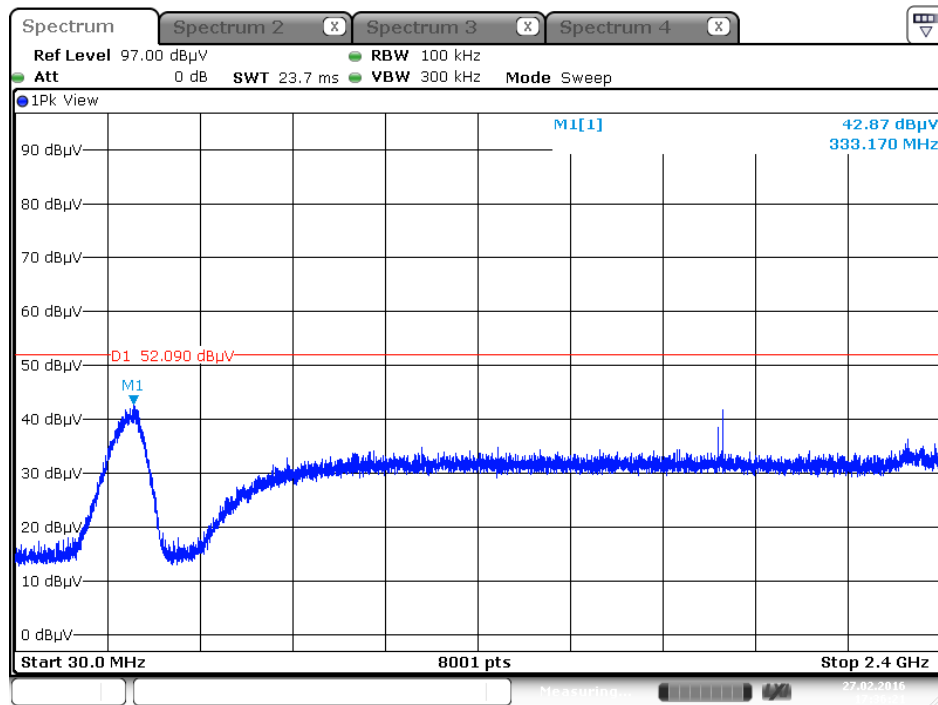
Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



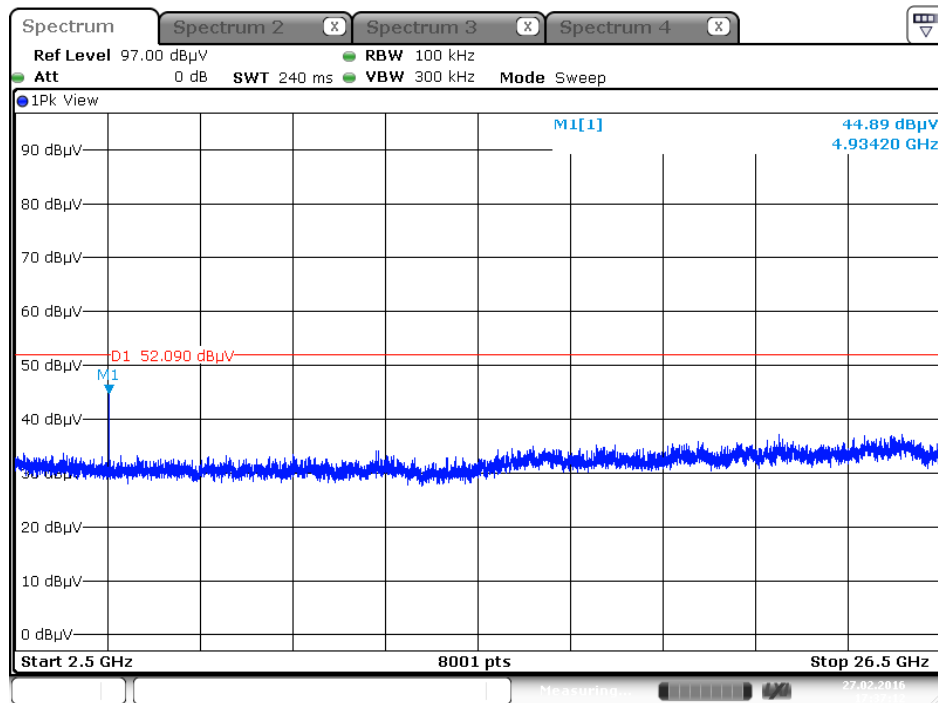
Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



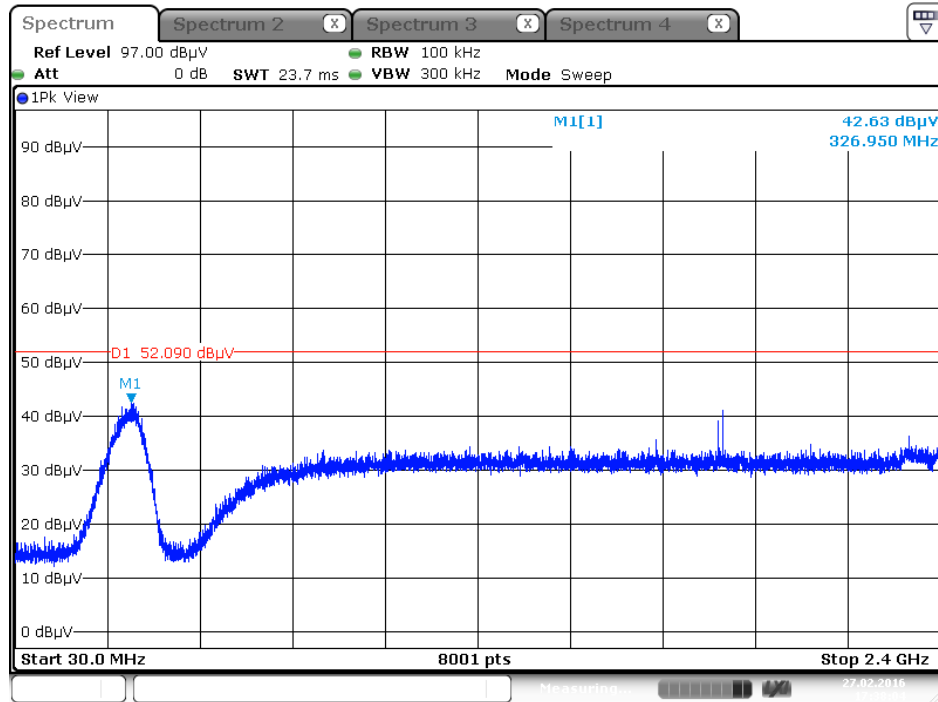
Plot on Configuration IEEE 802.11b / CH 12 / 30MHz~2400MHz (down 30dBc)



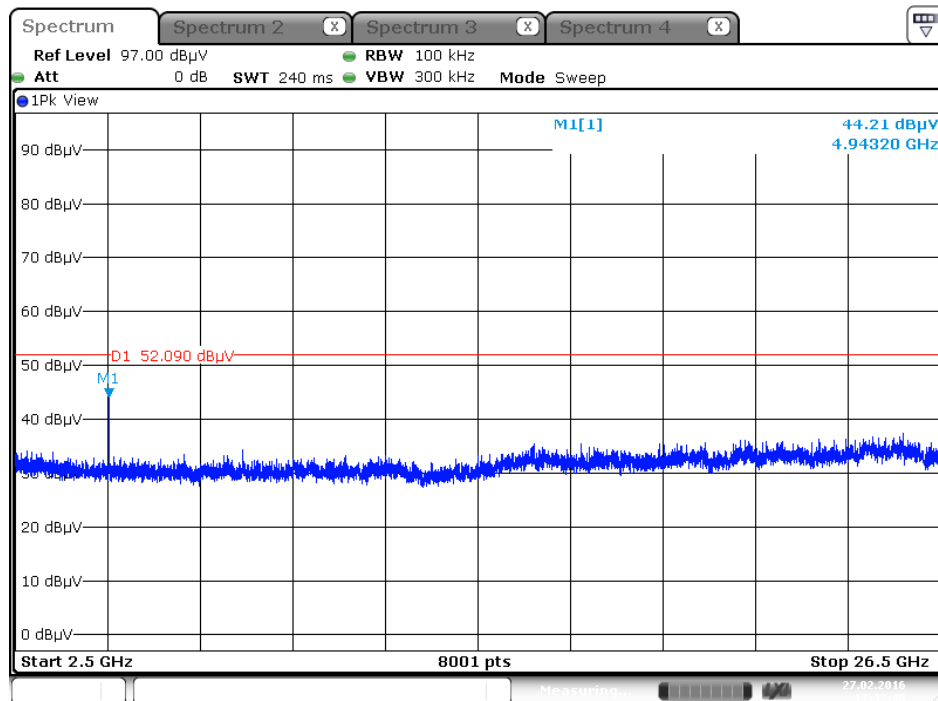
Plot on Configuration IEEE 802.11b / CH 12 / 2500MHz~26500MHz (down 30dBc)



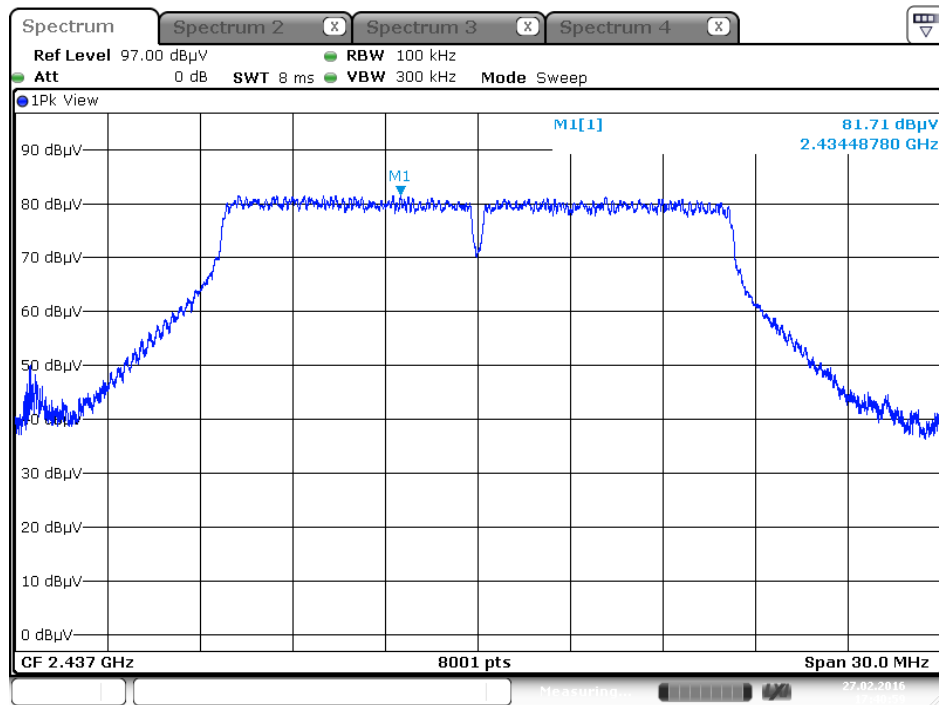
Plot on Configuration IEEE 802.11b / CH 13 / 30MHz~2400MHz (down 30dBc)



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

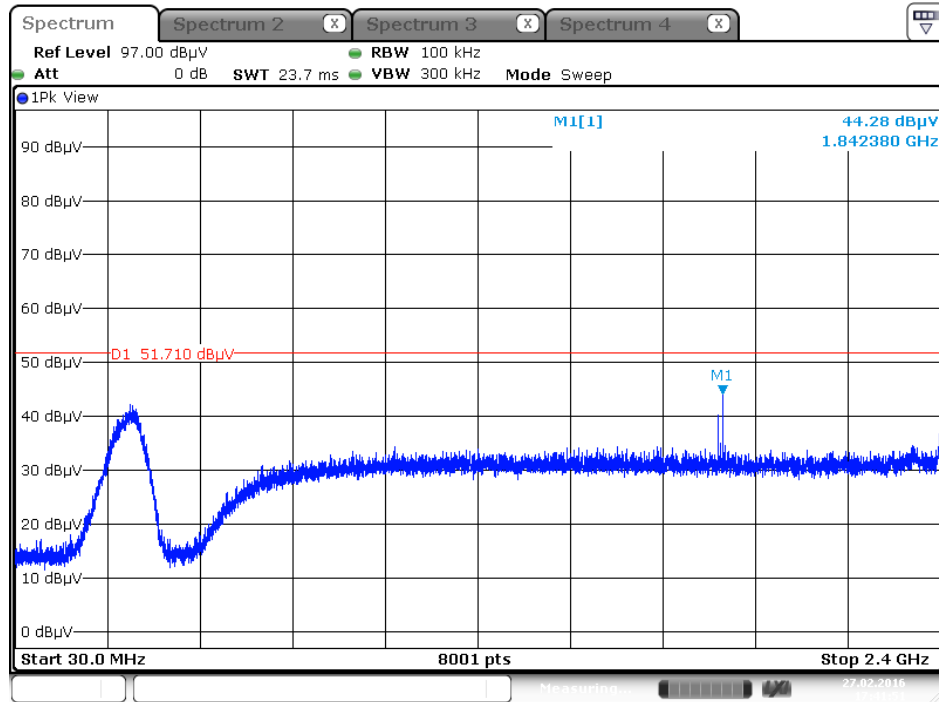


Plot on Configuration IEEE 802.11g / Reference Level

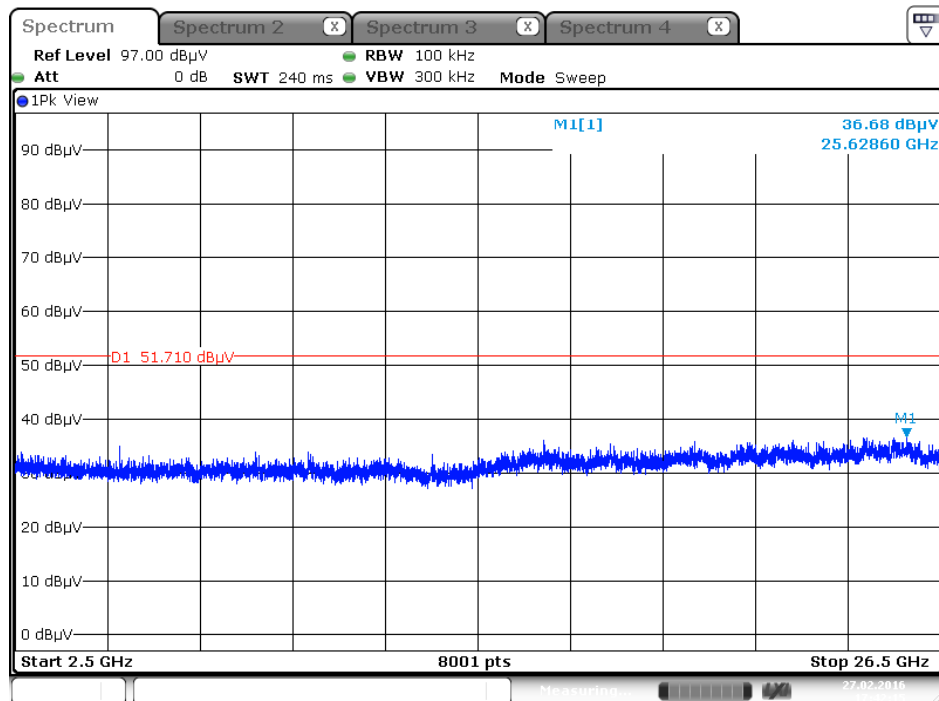


Date: 27.FEB.2016 17:40:59

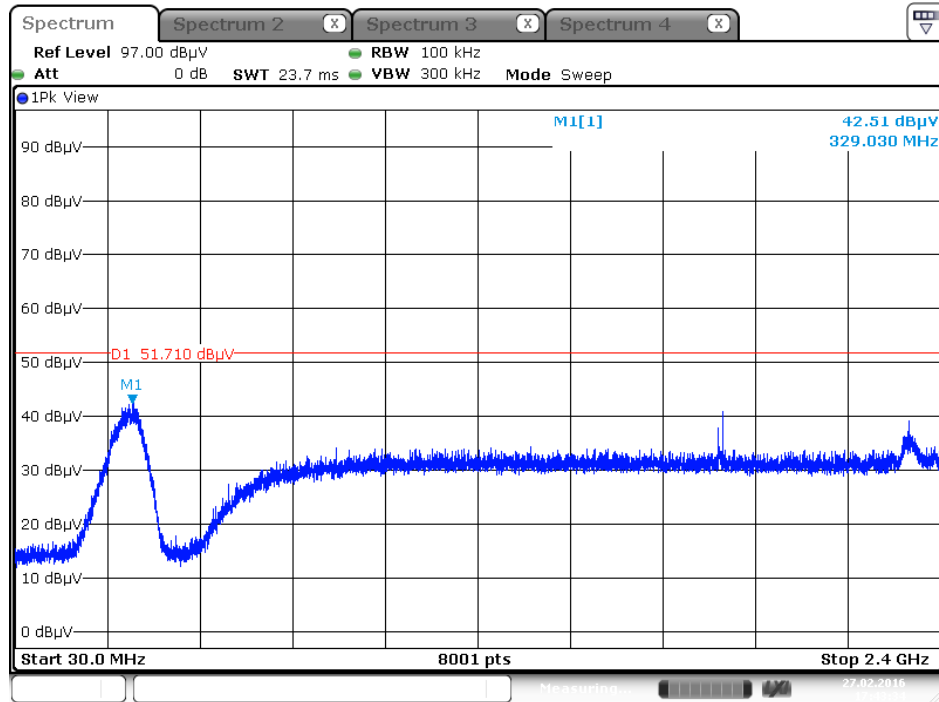
Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



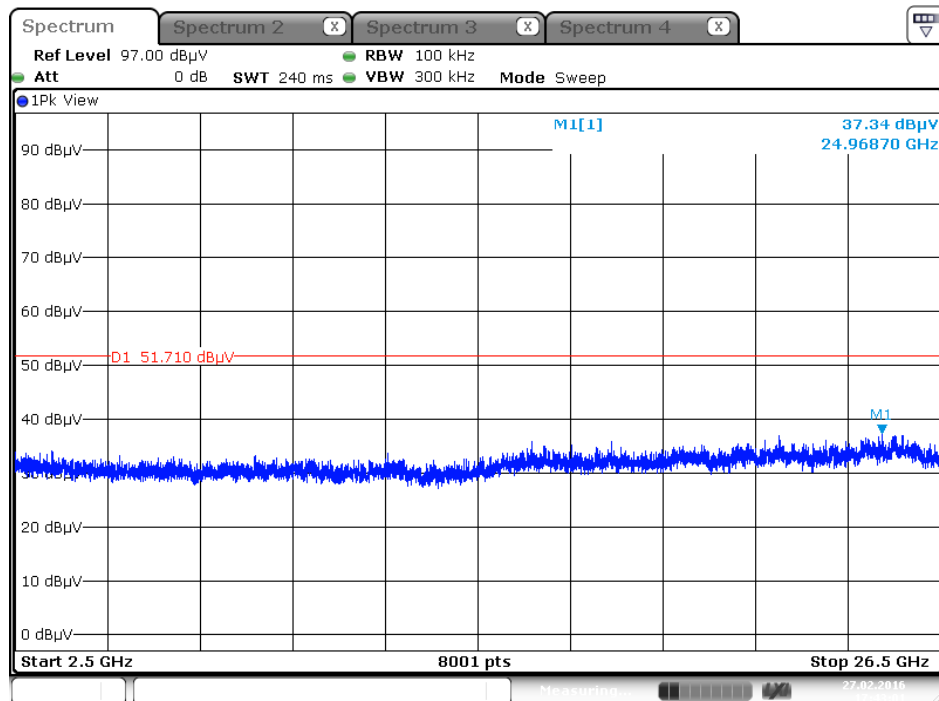
Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



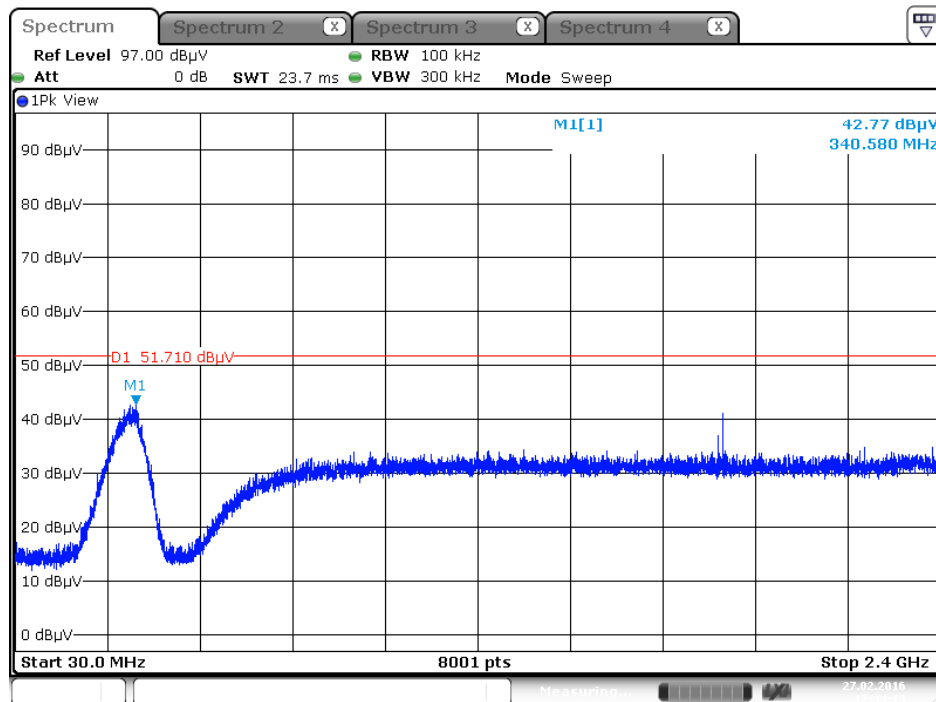
Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



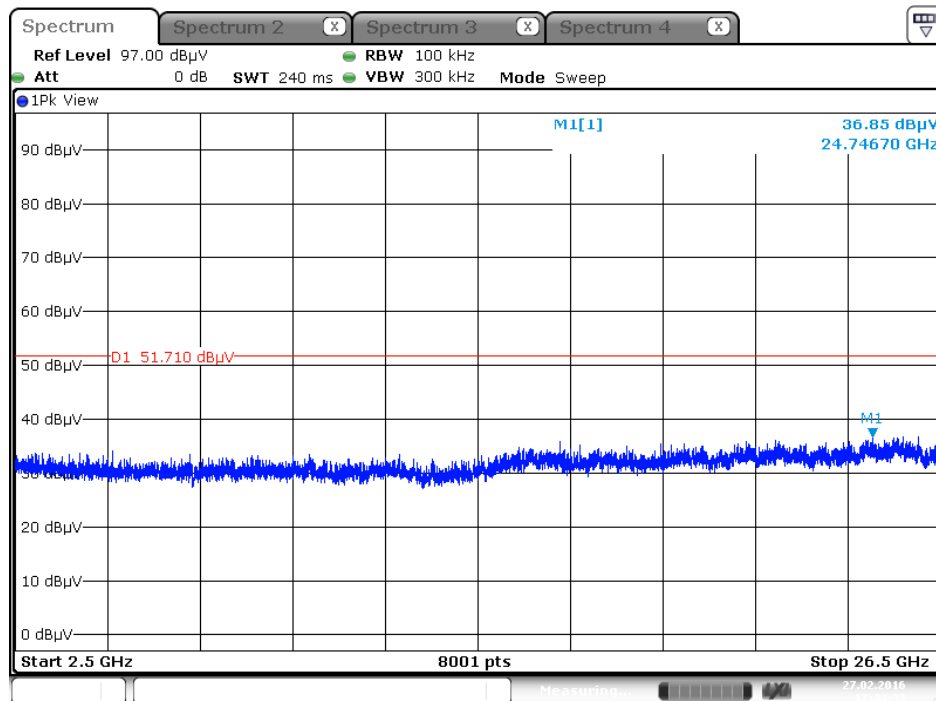
Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



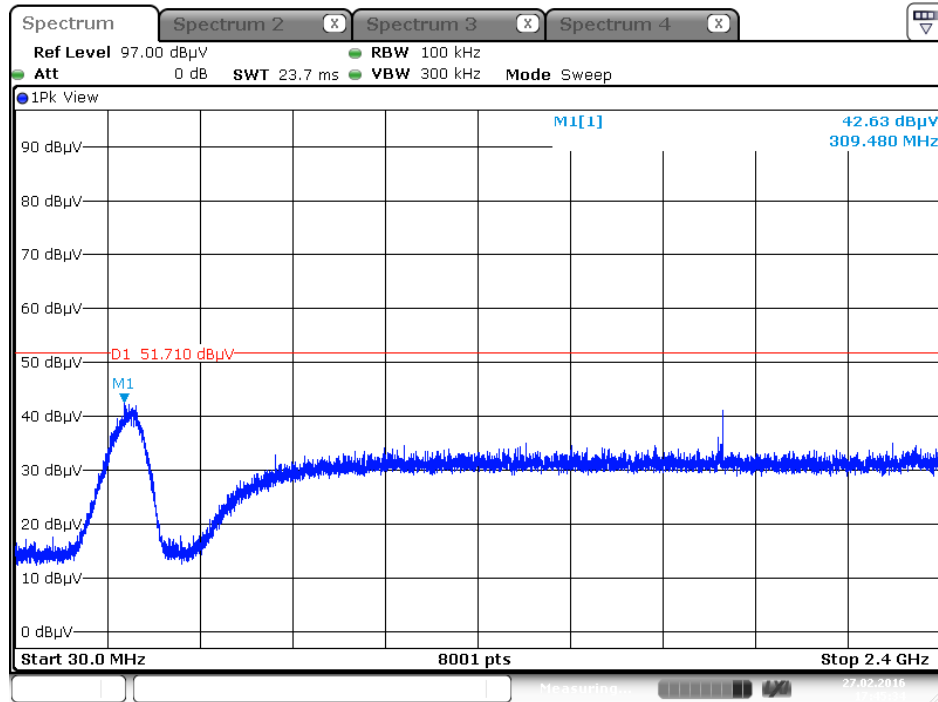
Plot on Configuration IEEE 802.11g / CH 12 / 30MHz~2400MHz (down 30dBc)



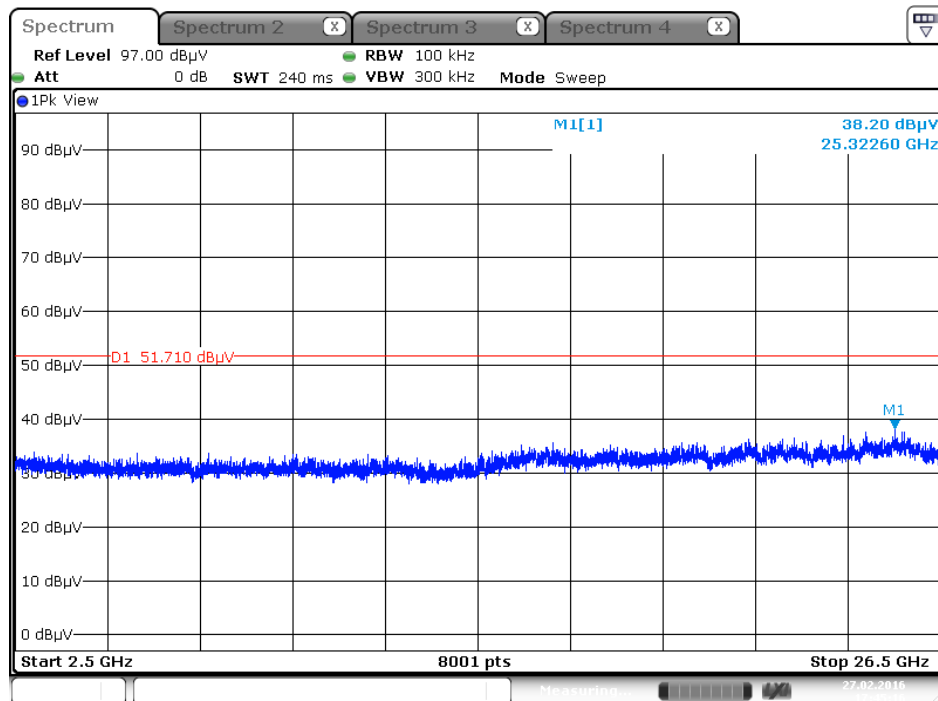
Plot on Configuration IEEE 802.11g / CH 12 / 2500MHz~26500MHz (down 30dBc)



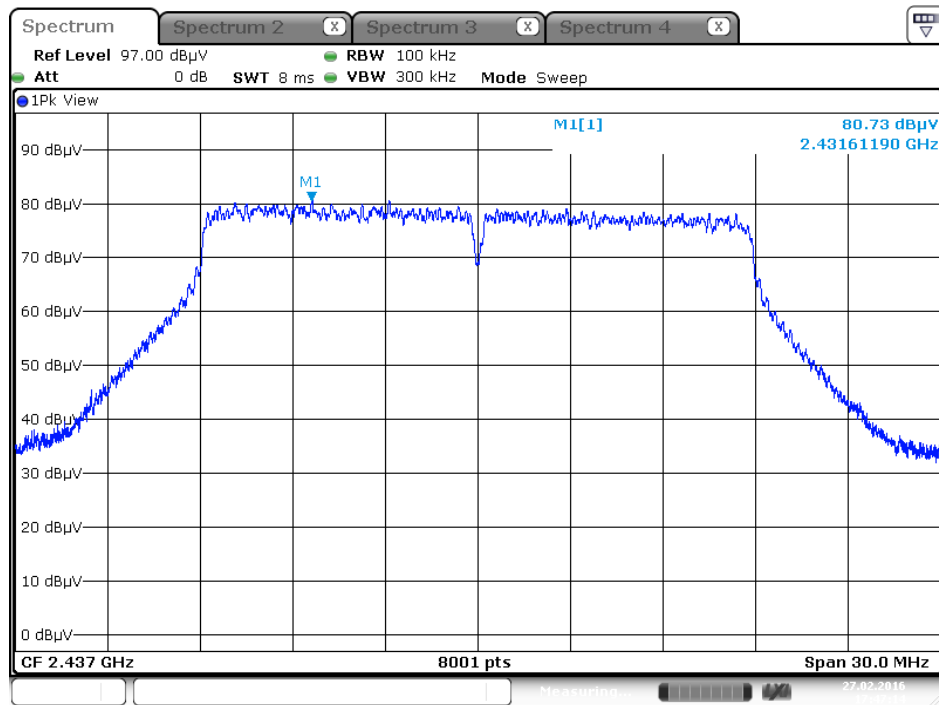
Plot on Configuration IEEE 802.11g / CH 13 / 30MHz~2400MHz (down 30dBc)



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

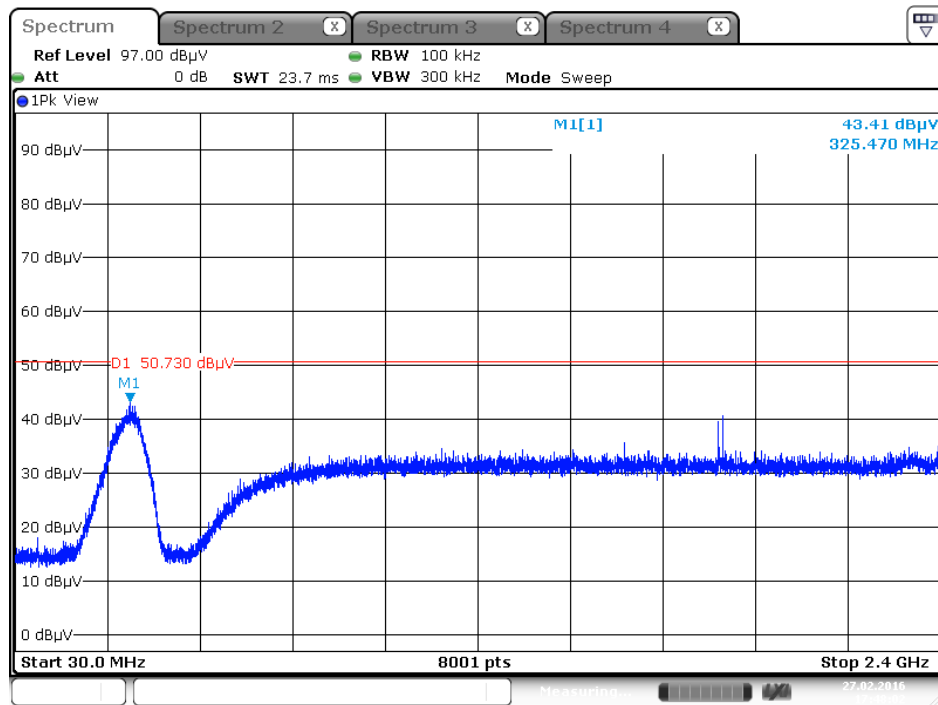


Plot on Configuration IEEE 802.11n MCS0 HT20 / Reference Level

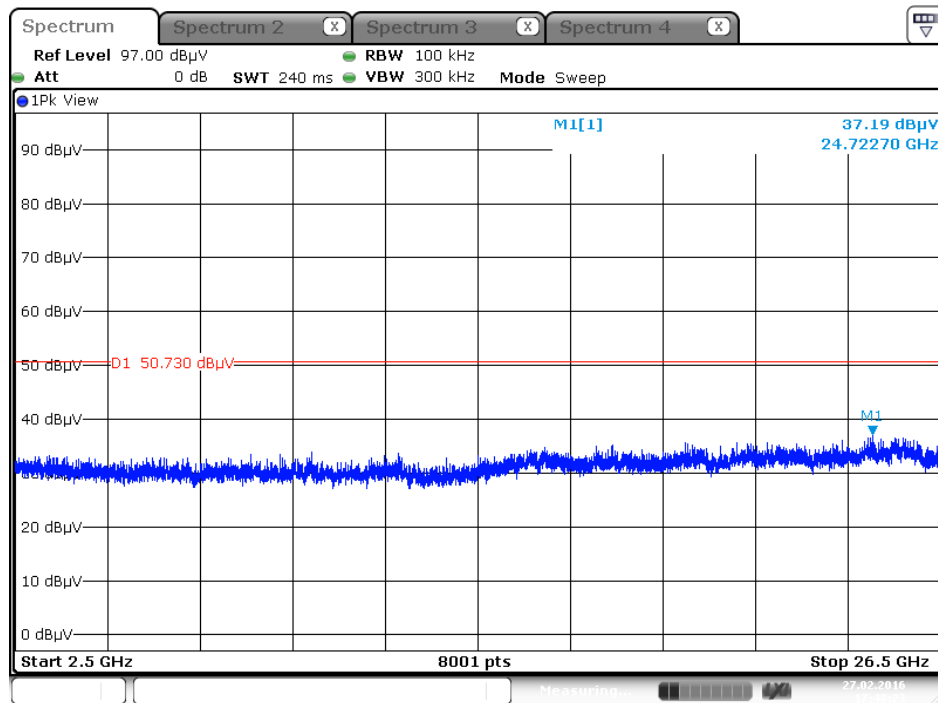


Date: 27.FEB.2016 17:47:14

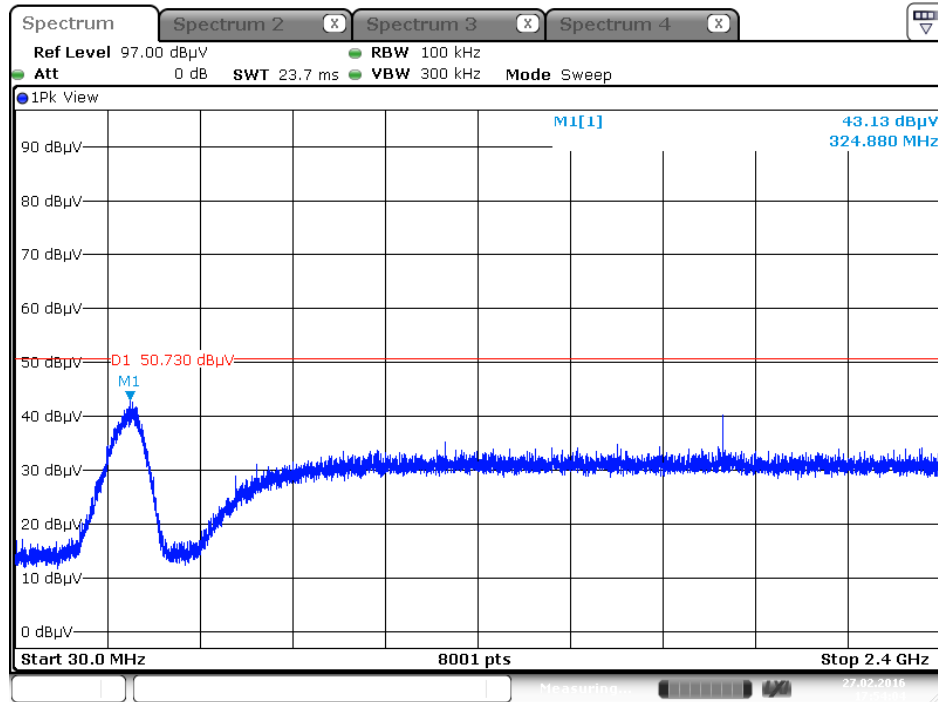
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



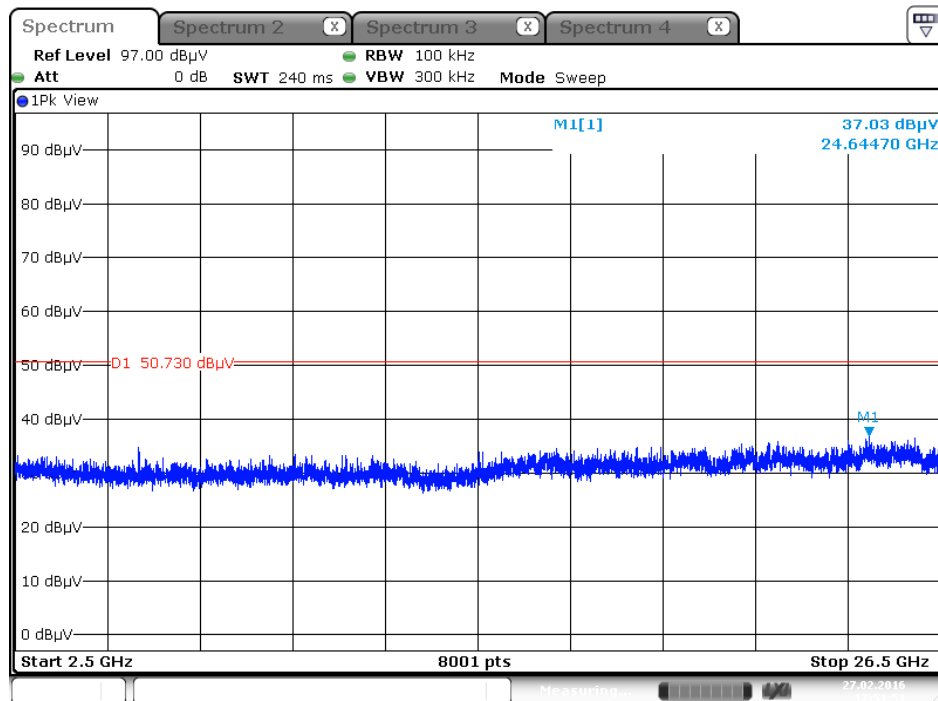
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



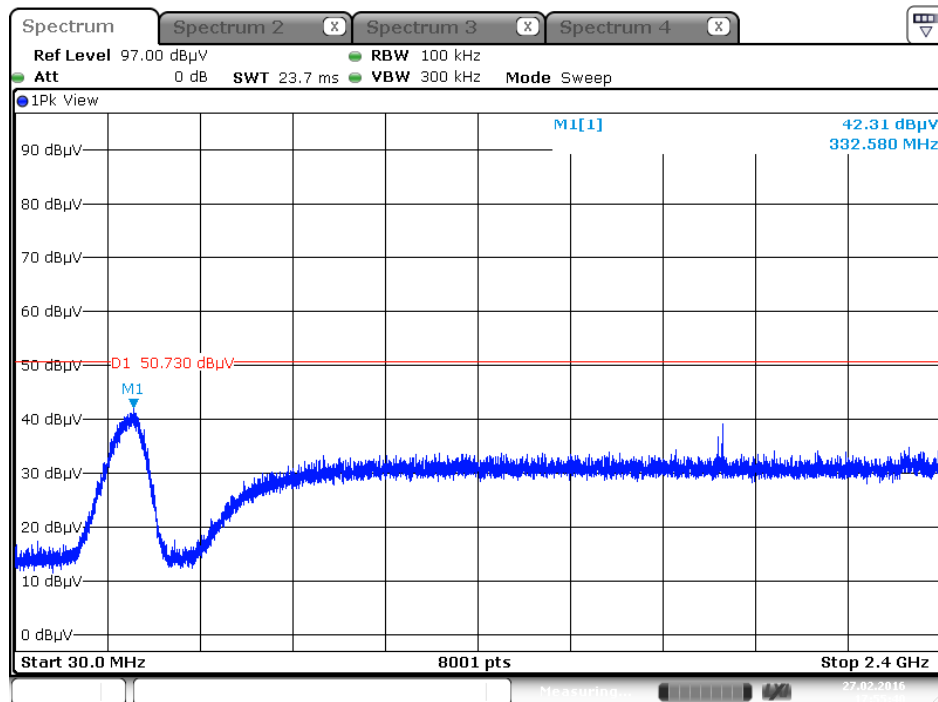
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



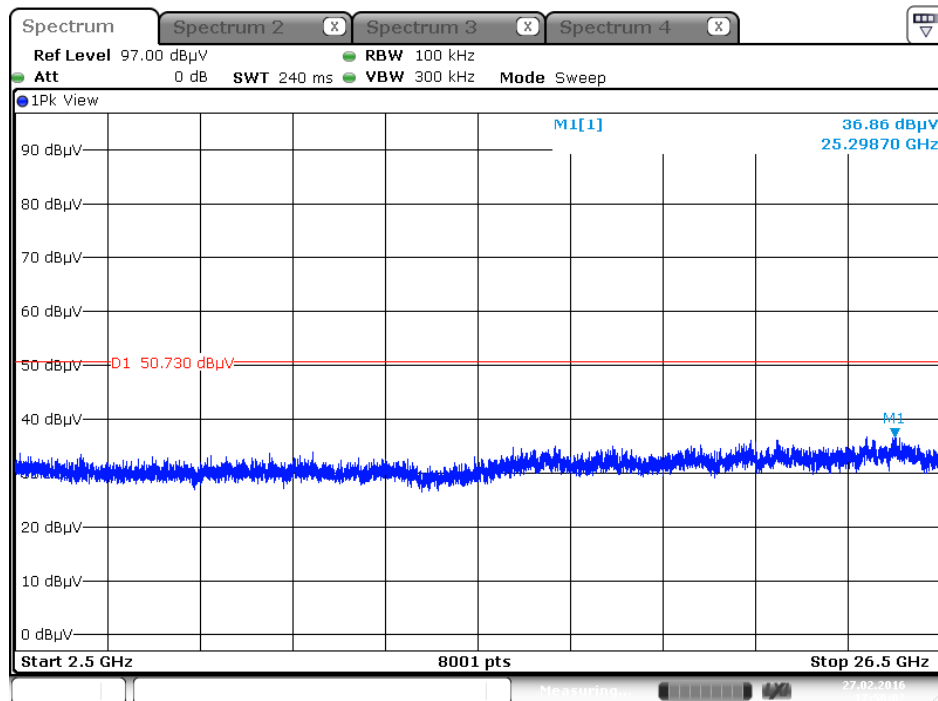
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



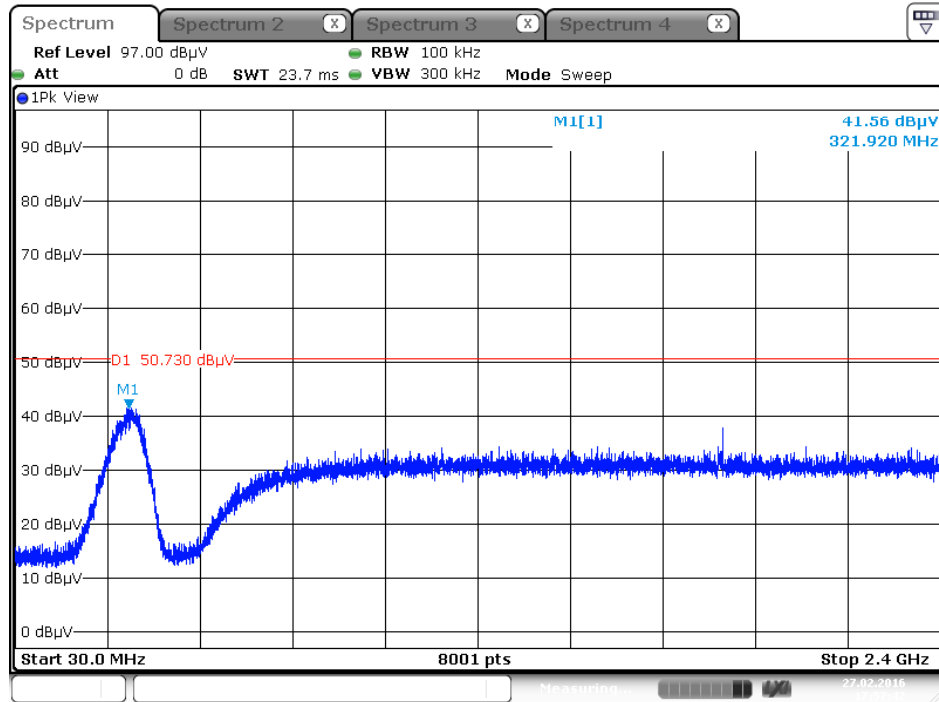
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 12 / 30MHz~2400MHz (down 30dBc)



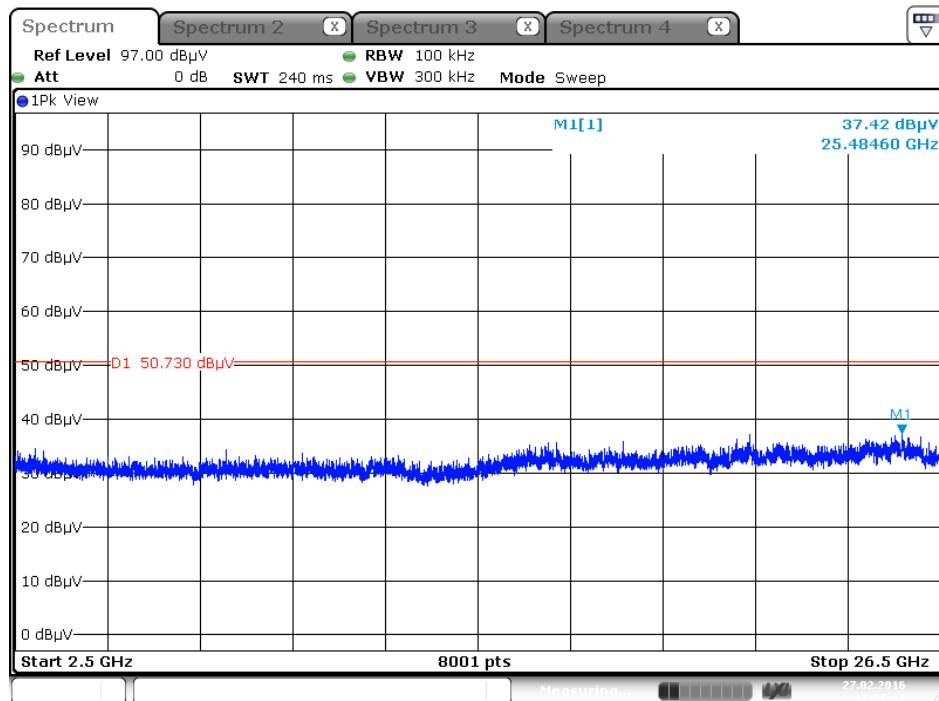
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 12 / 2500MHz~26500MHz (down 30dBc)



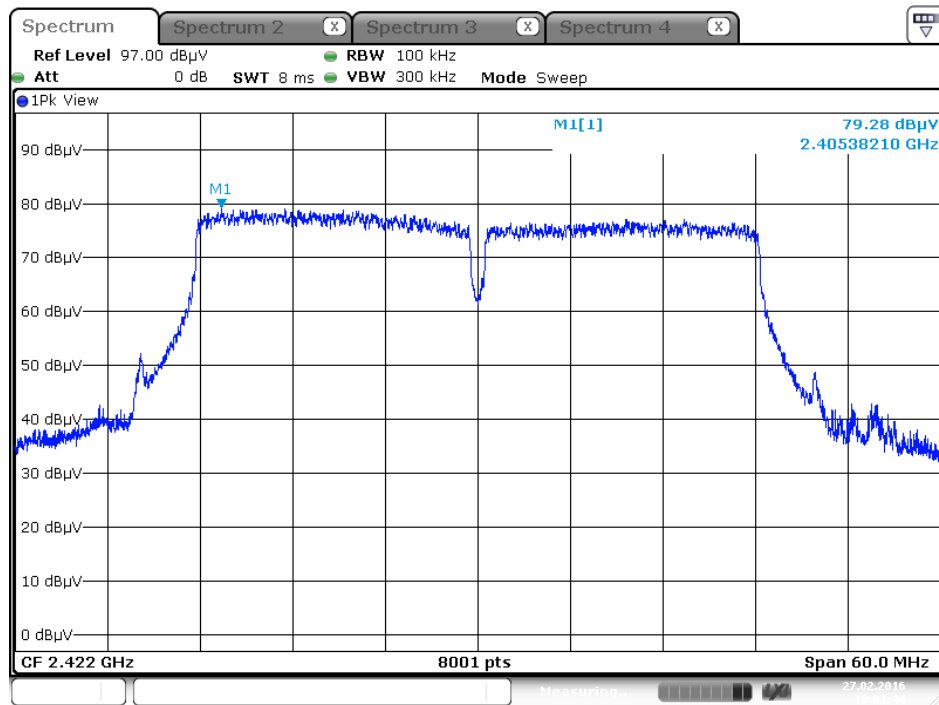
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 13 / 30MHz~2400MHz (down 30dBc)



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

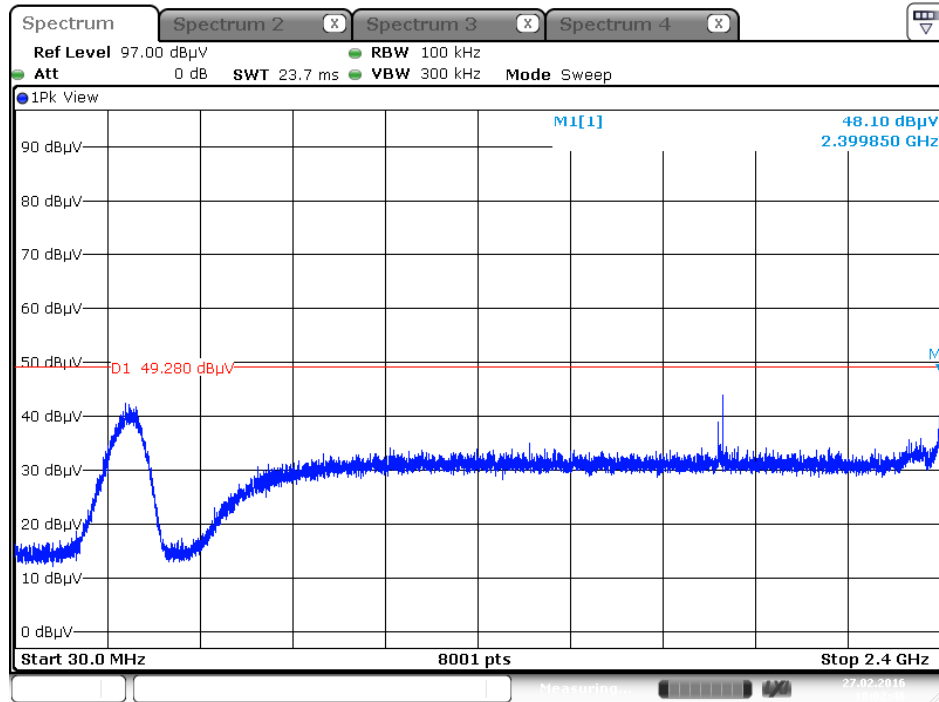


Plot on Configuration IEEE 802.11n MCS0 HT40 / Reference Level

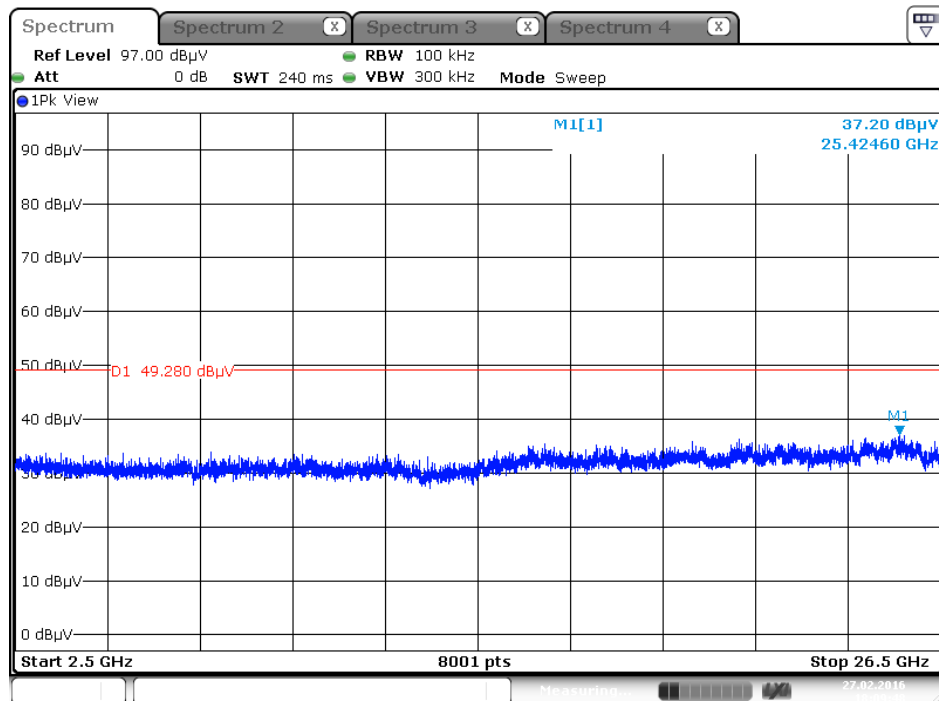


Date: 27.FEB.2016 18:01:44

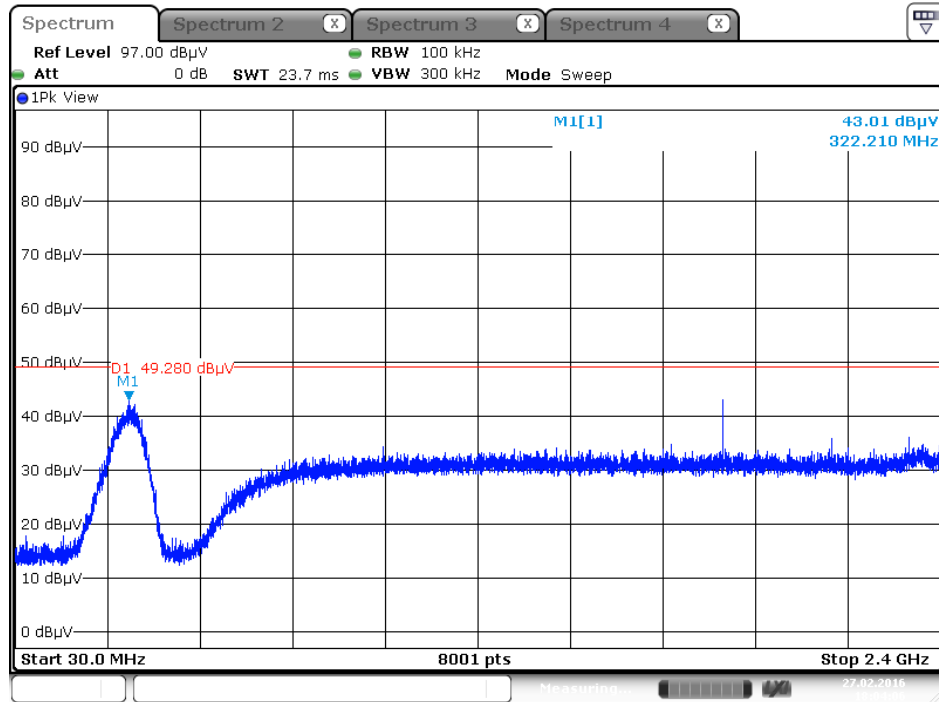
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



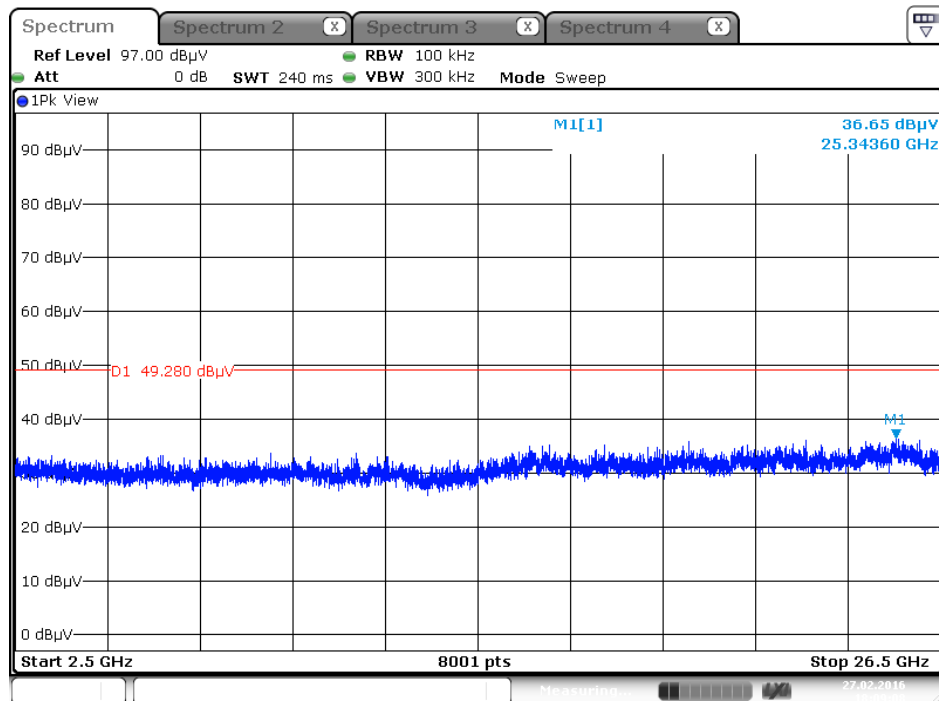
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



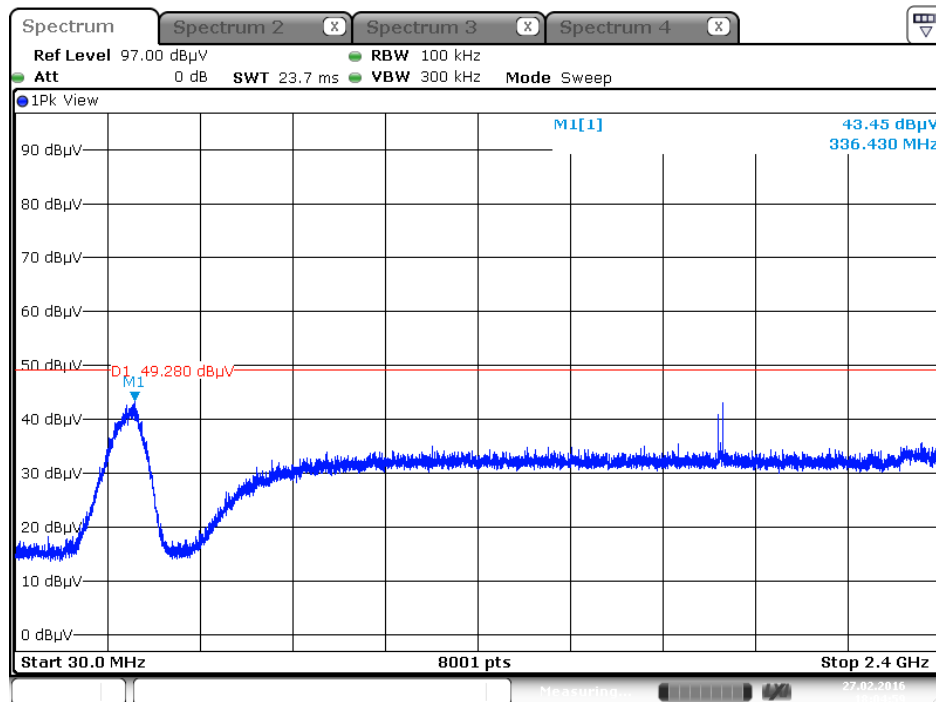
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



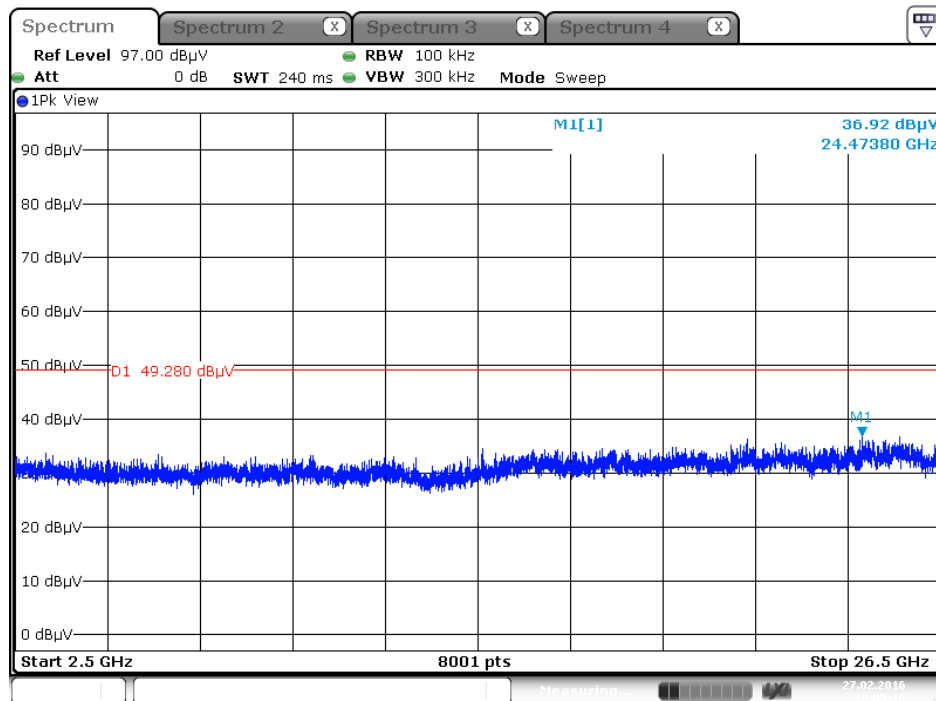
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



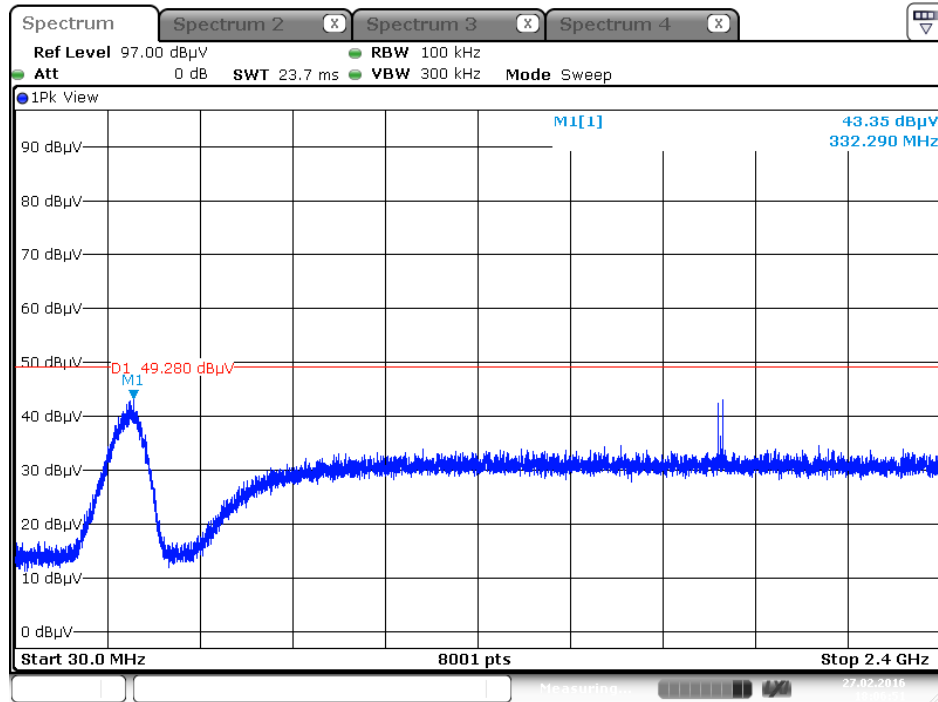
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 10 / 30MHz~2400MHz (down 30dBc)



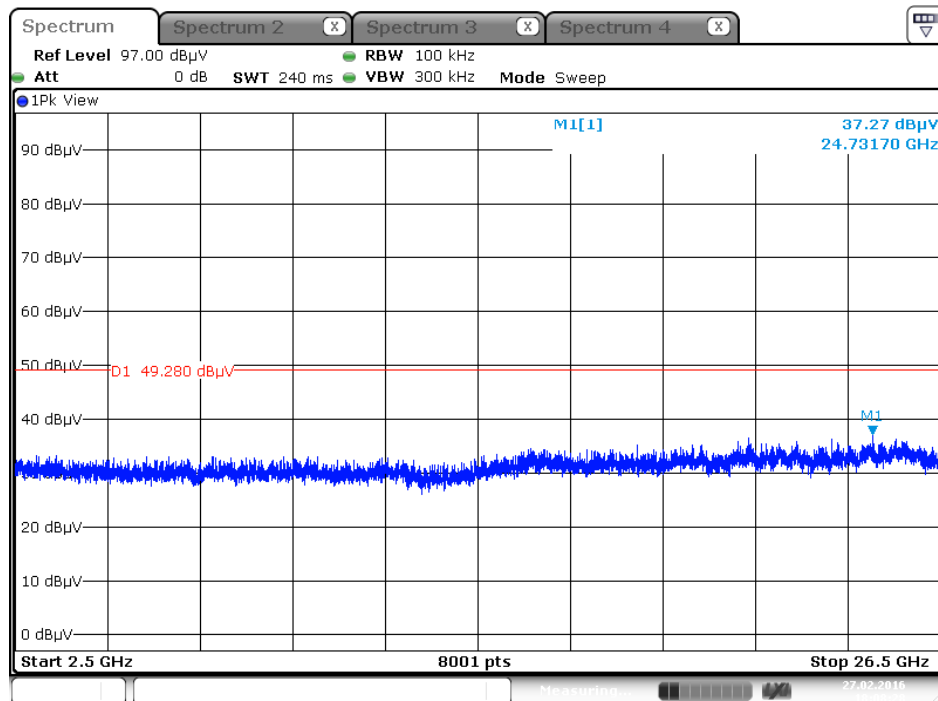
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 10 / 2500MHz~26500MHz (down 30dBc)



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

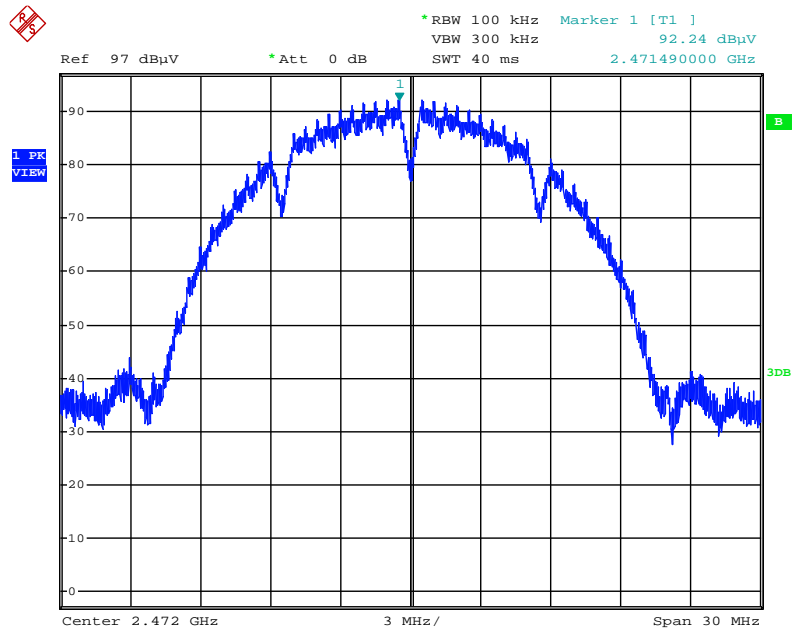


Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 11 / 2500MHz~26500MHz (down 30dBc)



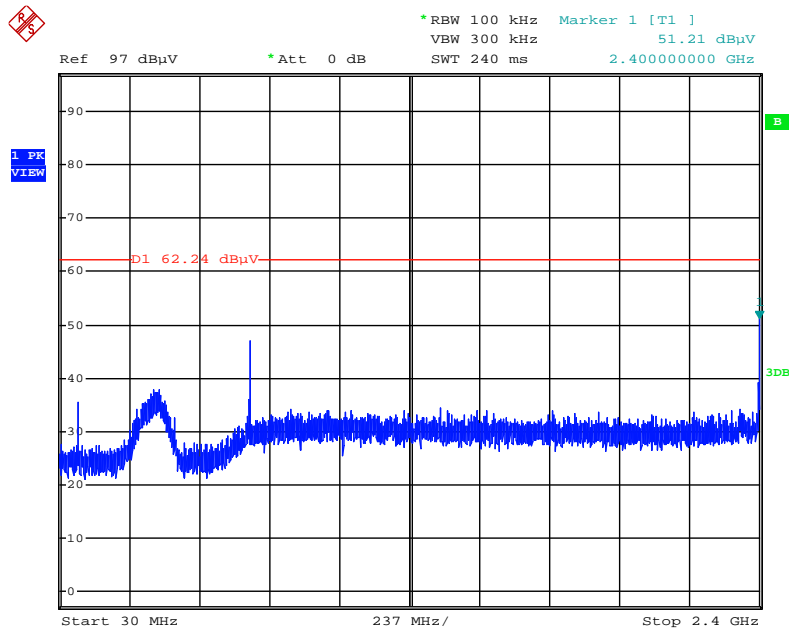
Test Moe: Mode 2

Plot on Configuration IEEE 802.11b / Reference Level



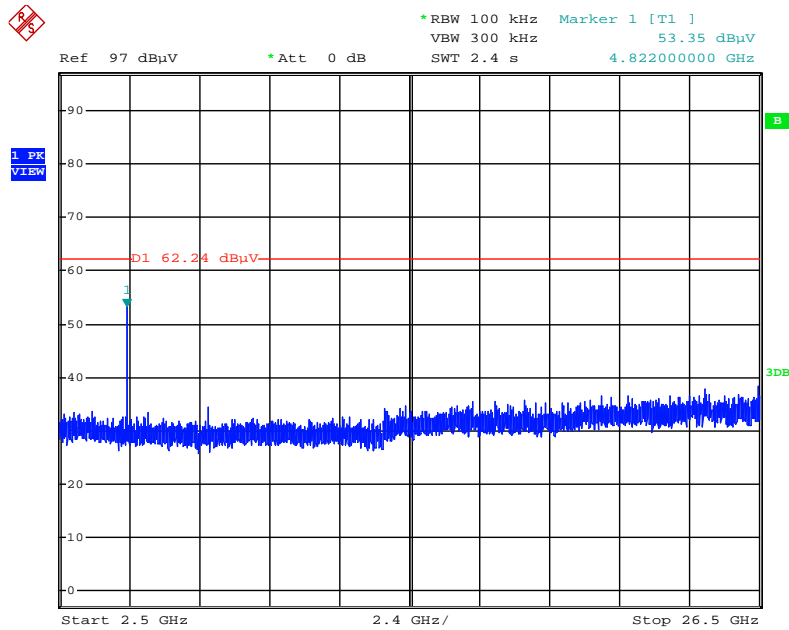
Date: 25.FEB.2016 10:41:05

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



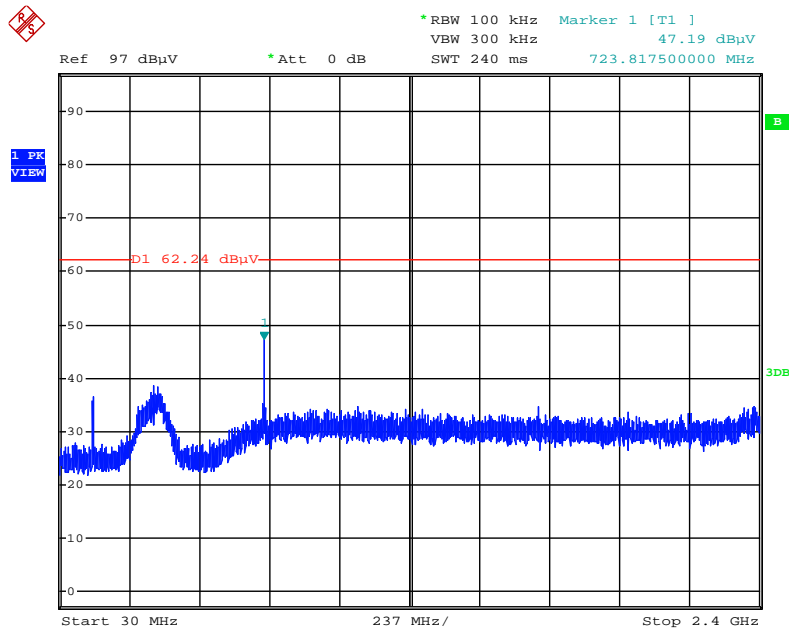
Date: 25.FEB.2016 10:47:38

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



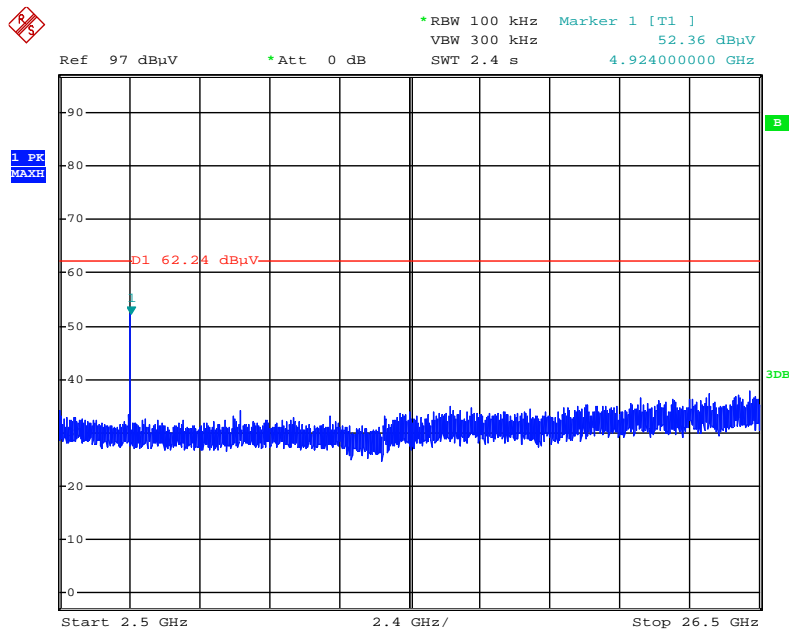
Date: 25.FEB.2016 10:48:36

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



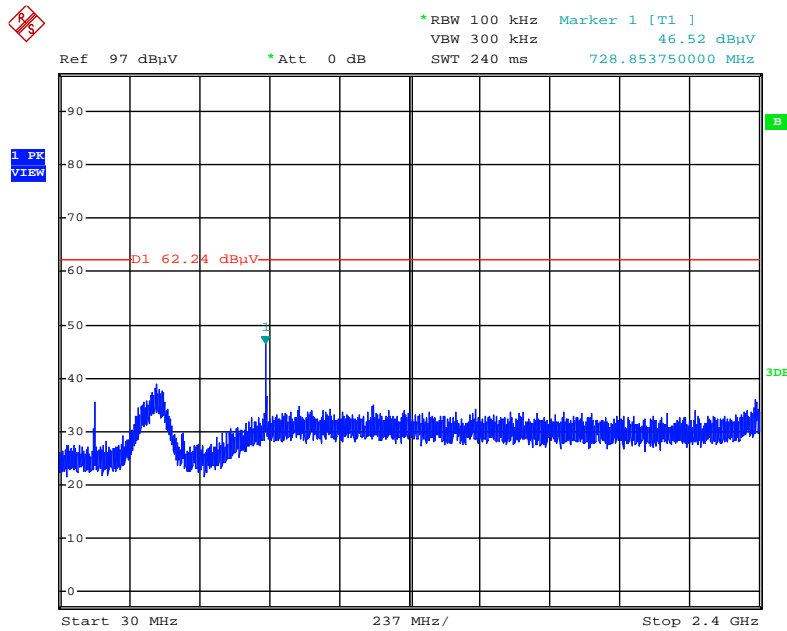
Date: 25.FEB.2016 10:51:46

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



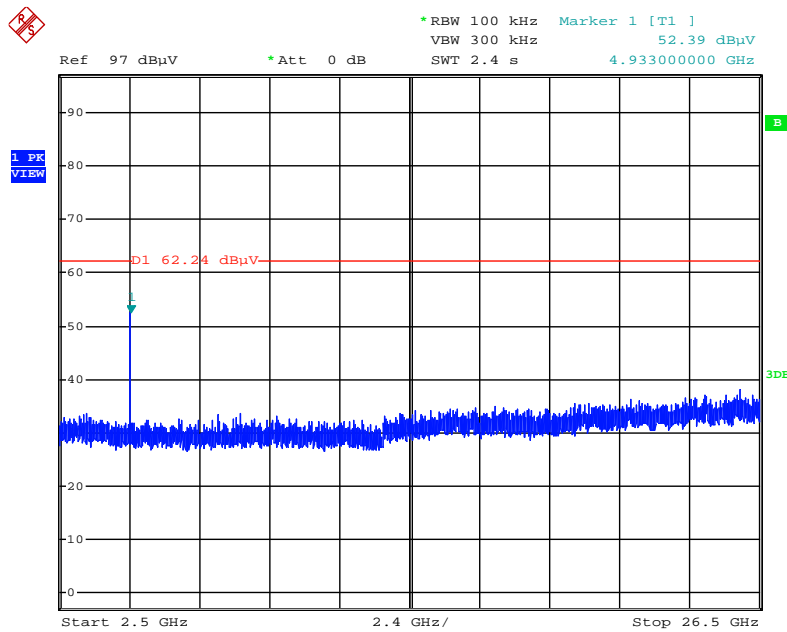
Date: 25.FEB.2016 10:51:05

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



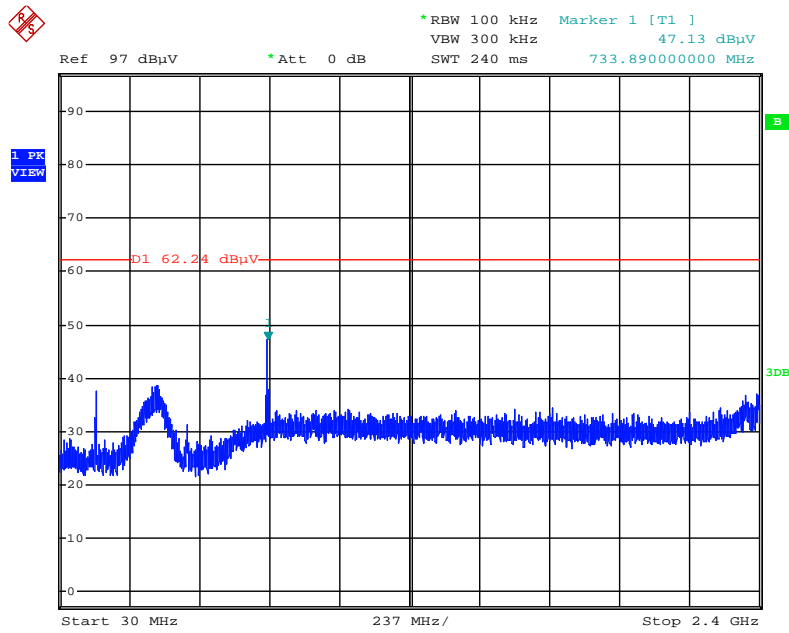
Date: 25.FEB.2016 10:55:05

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



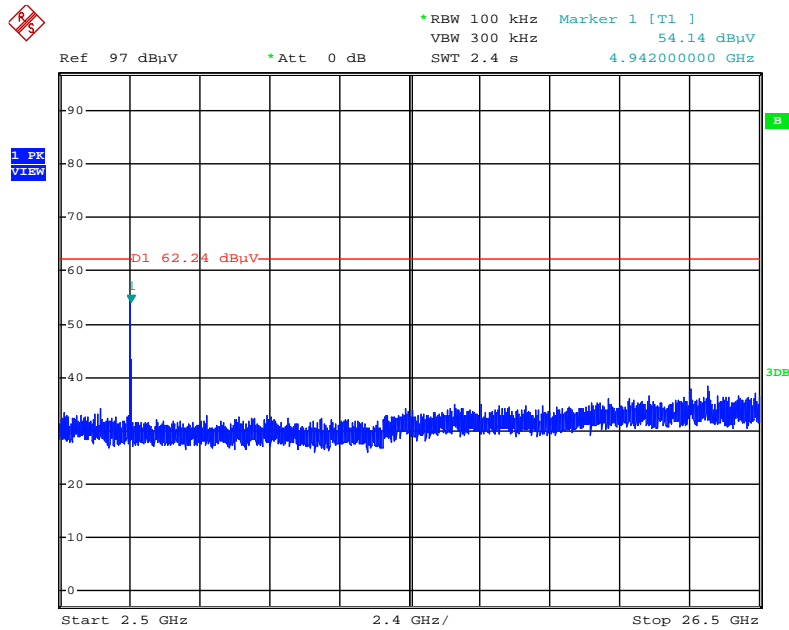
Date: 25.FEB.2016 10:55:38

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



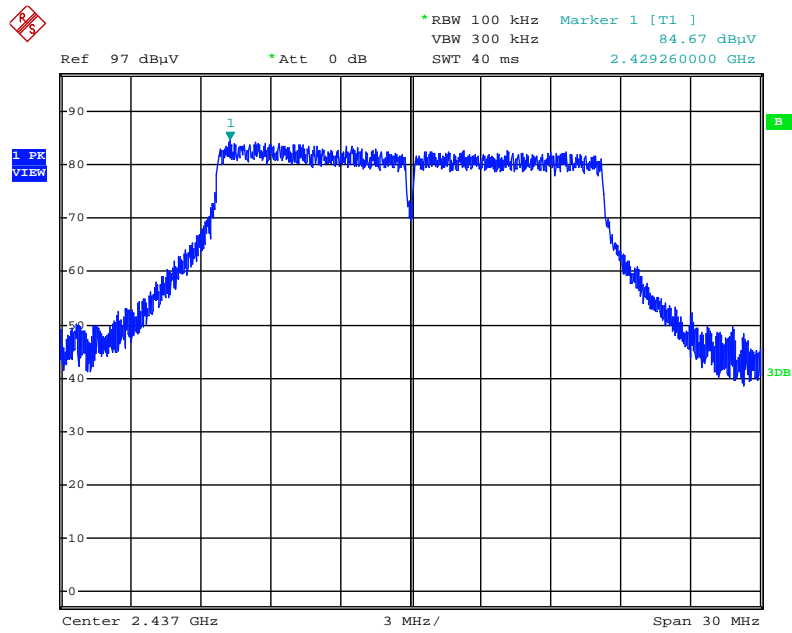
Date: 25.FEB.2016 10:58:28

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



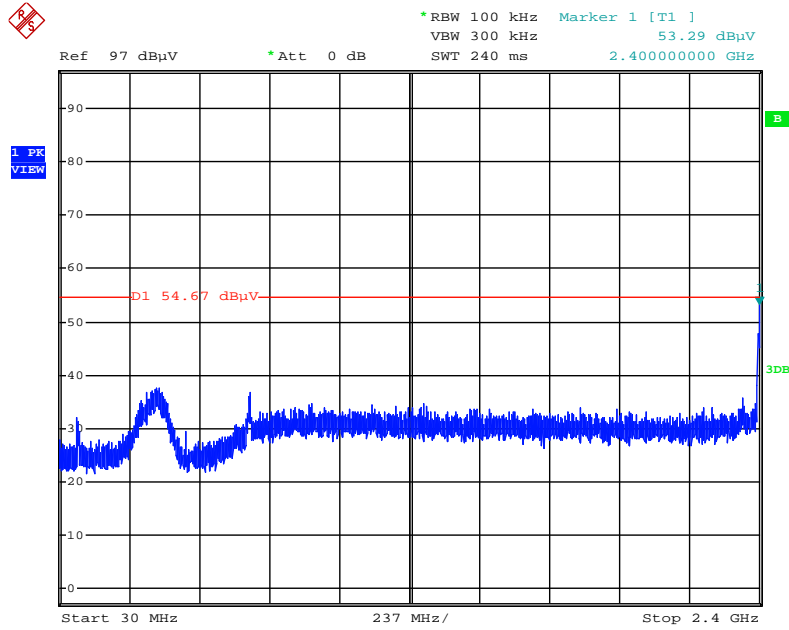
Date: 25.FEB.2016 10:57:56

Plot on Configuration IEEE 802.11g / Reference Level



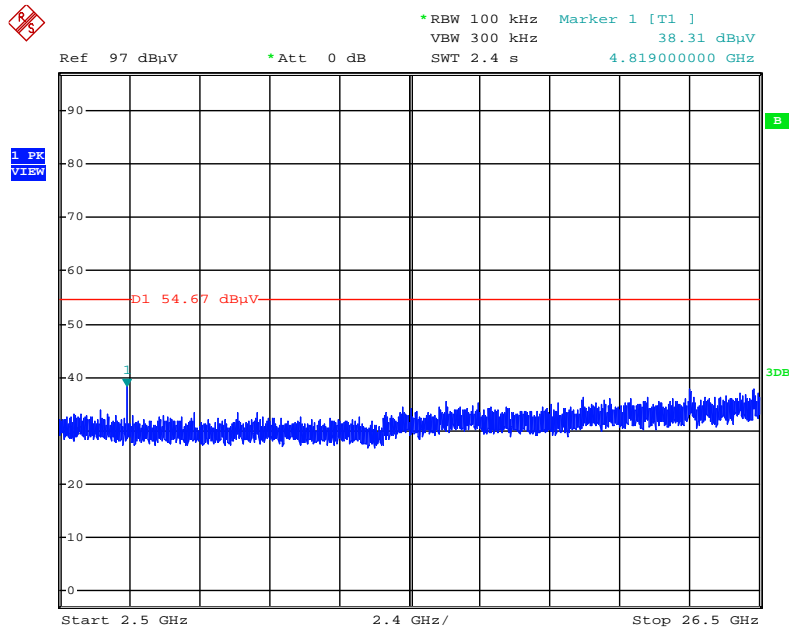
Date: 25.FEB.2016 10:15:31

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



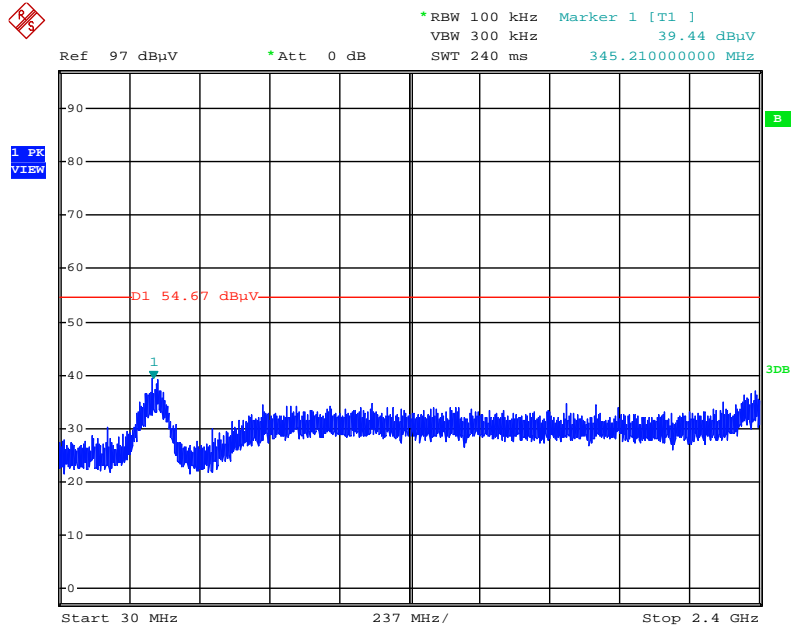
Date: 25.FEB.2016 10:23:28

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



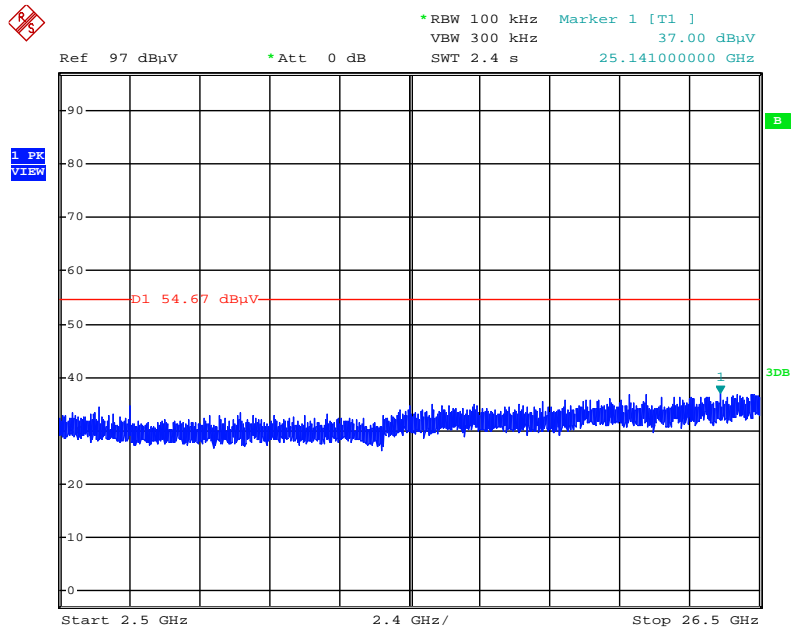
Date: 25.FEB.2016 10:24:21

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



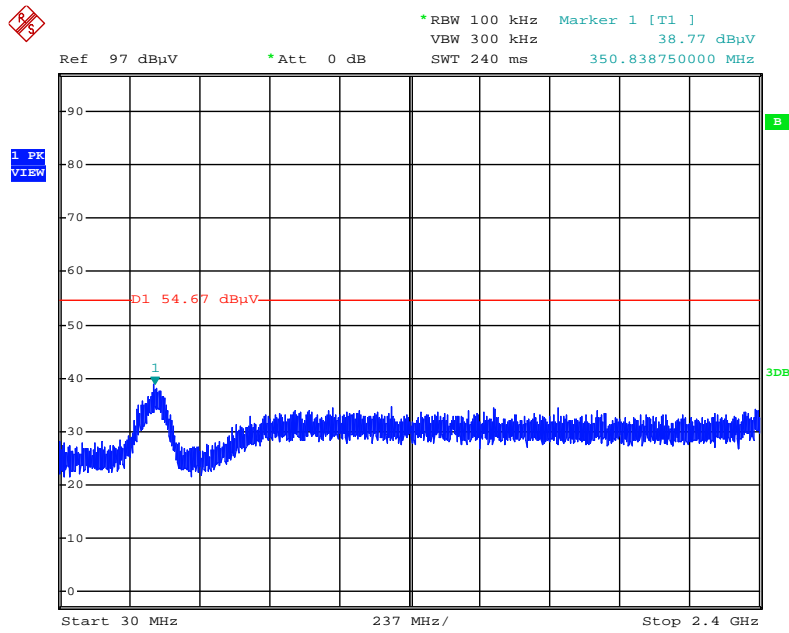
Date: 25.FEB.2016 10:28:02

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



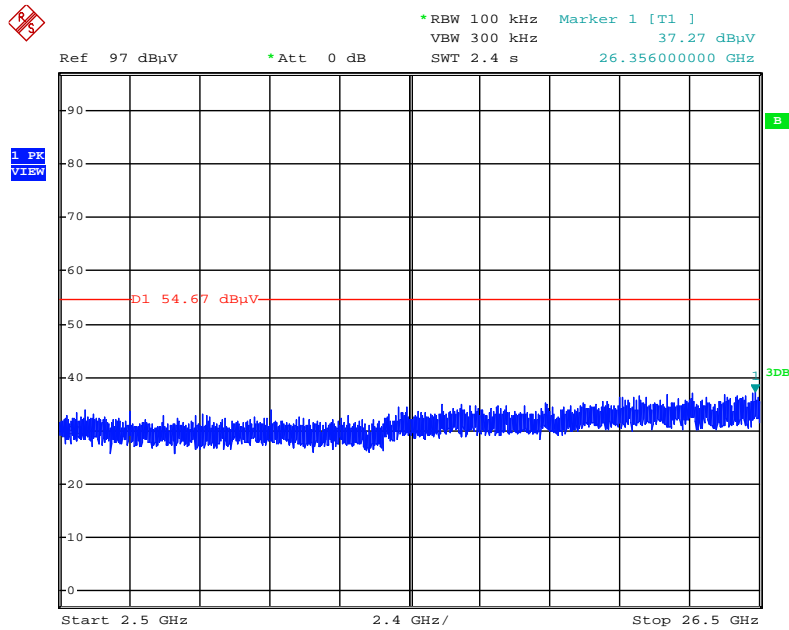
Date: 25.FEB.2016 10:27:38

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



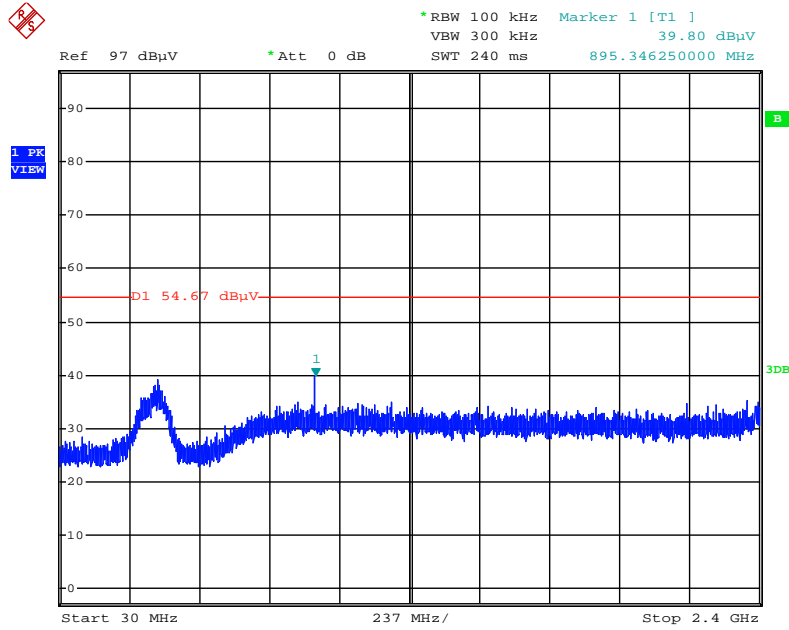
Date: 25.FEB.2016 10:30:38

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



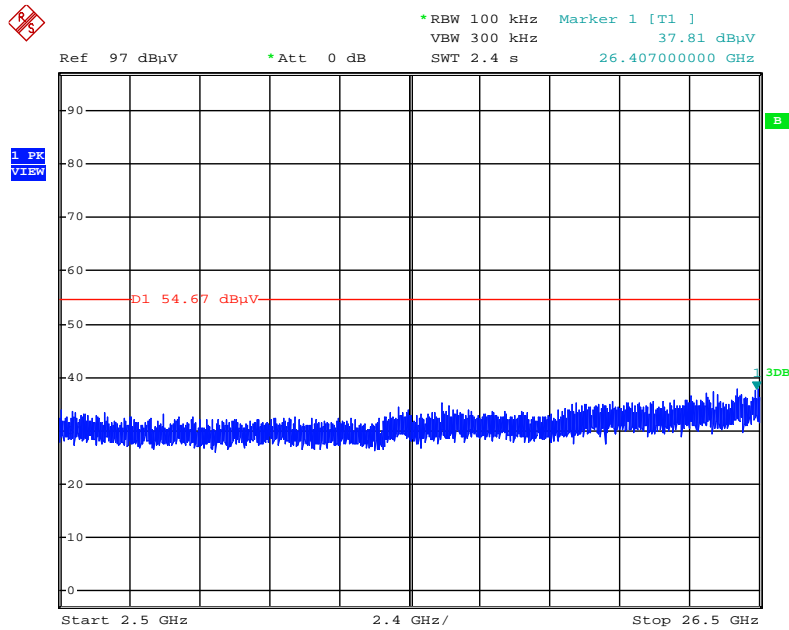
Date: 25.FEB.2016 10:31:21

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



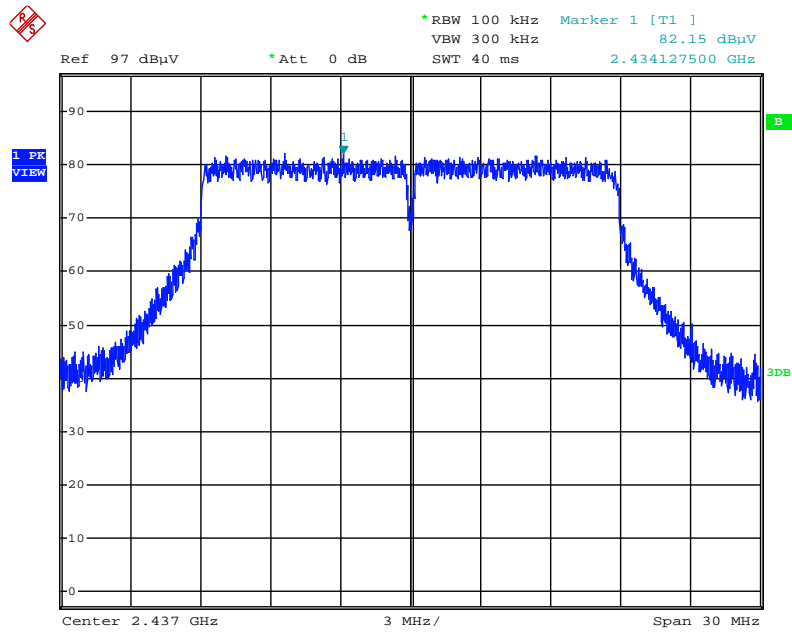
Date: 25.FEB.2016 10:34:38

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



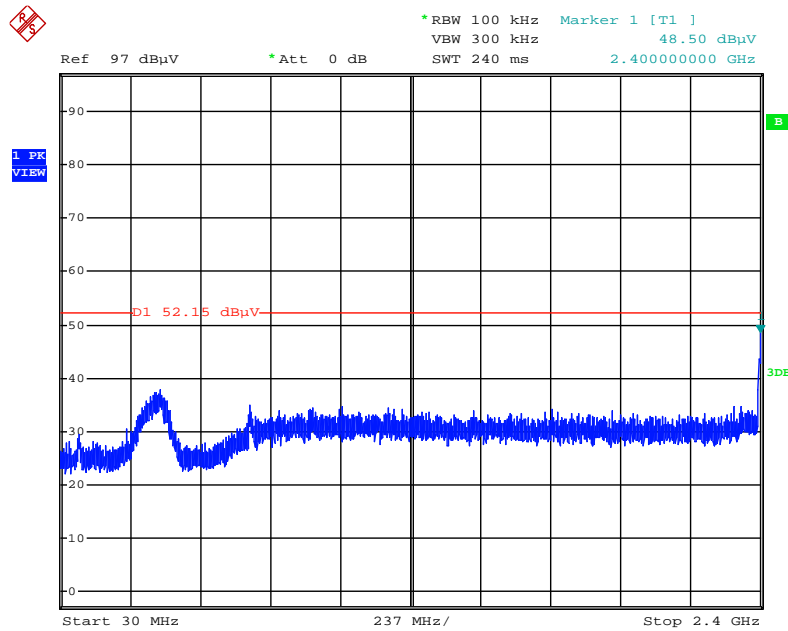
Date: 25.FEB.2016 10:34:02

Plot on Configuration IEEE 802.11n MCS0 HT20 / Reference Level



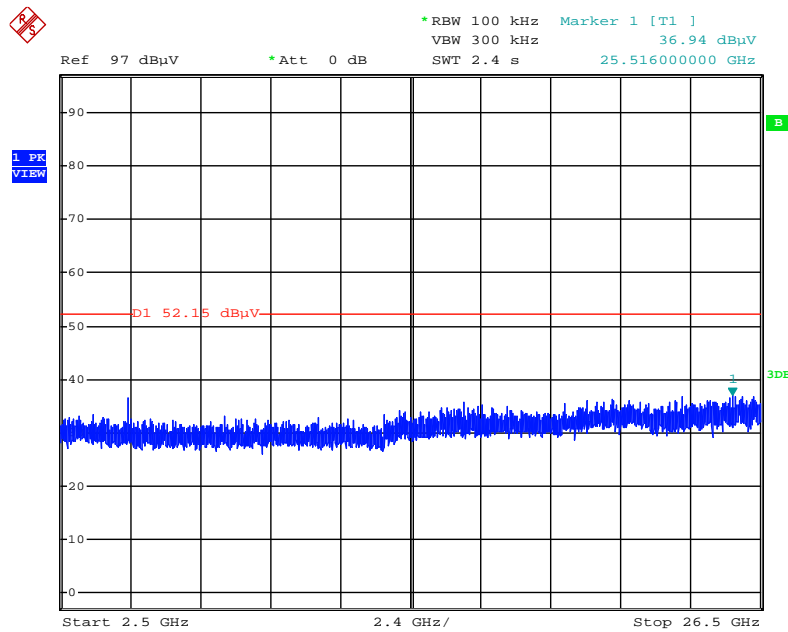
Date: 25.FEB.2016 11:01:51

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



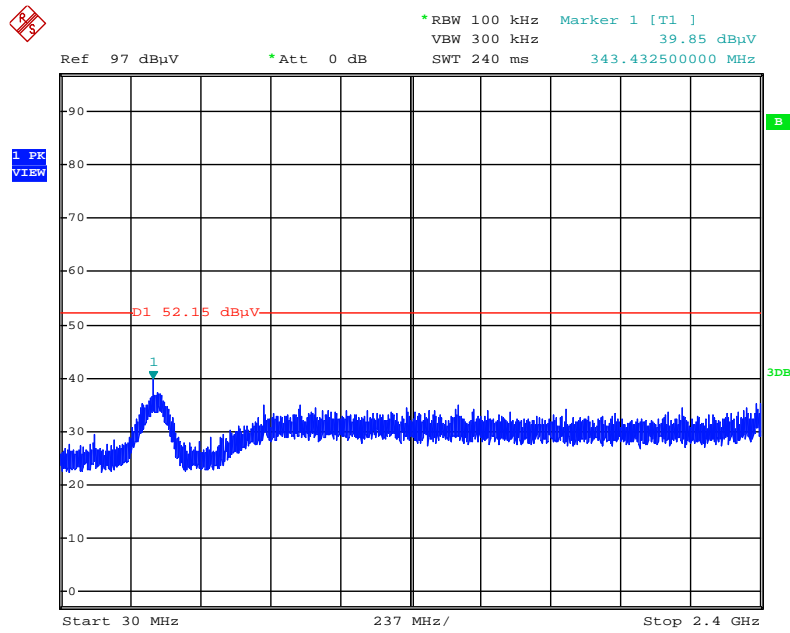
Date: 25.FEB.2016 11:05:47

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



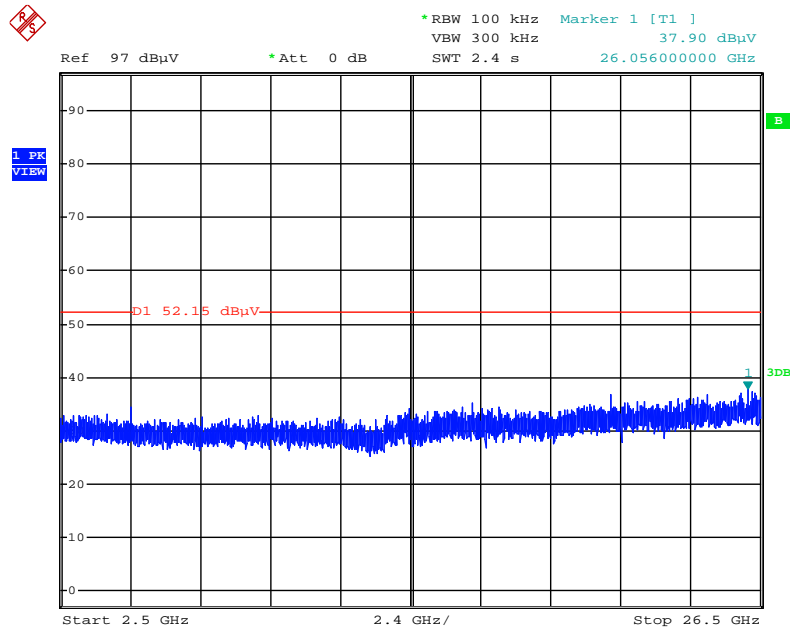
Date: 25.FEB.2016 11:07:07

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



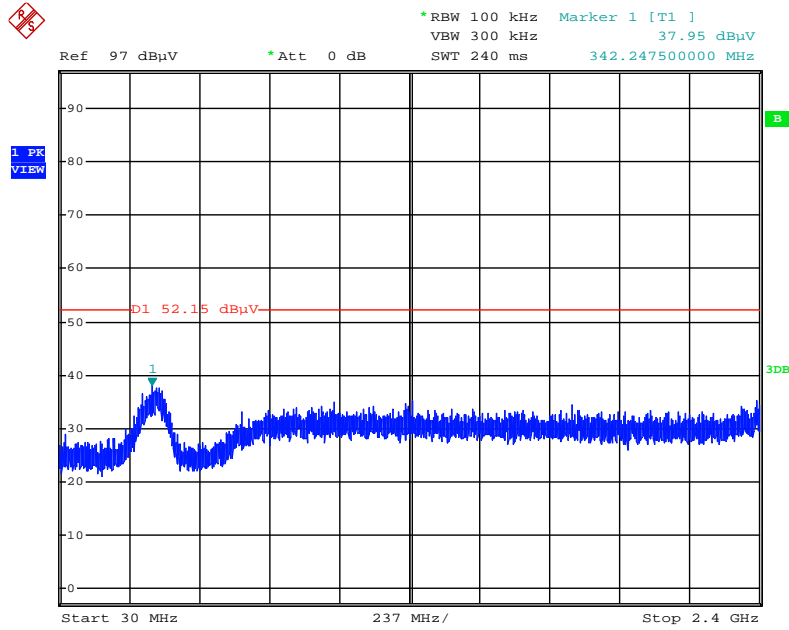
Date: 25.FEB.2016 11:11:38

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



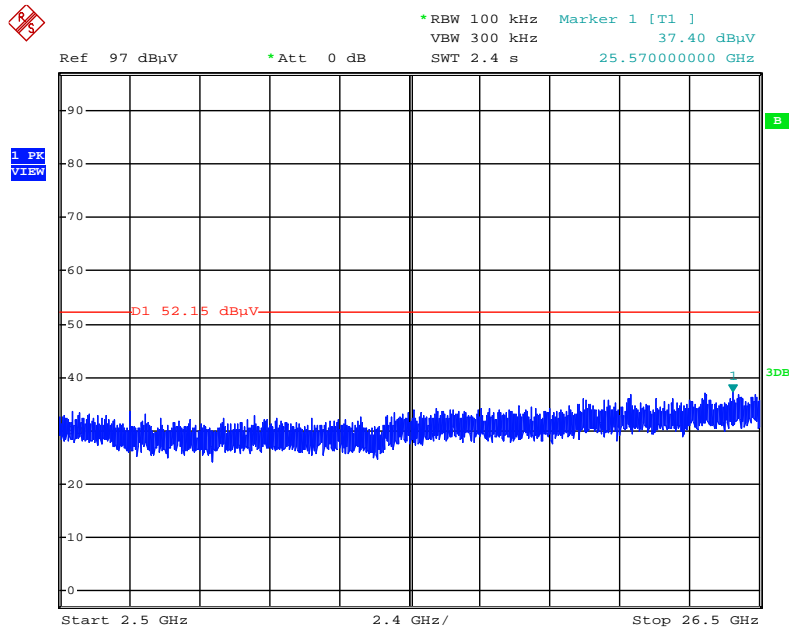
Date: 25.FEB.2016 11:11:06

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



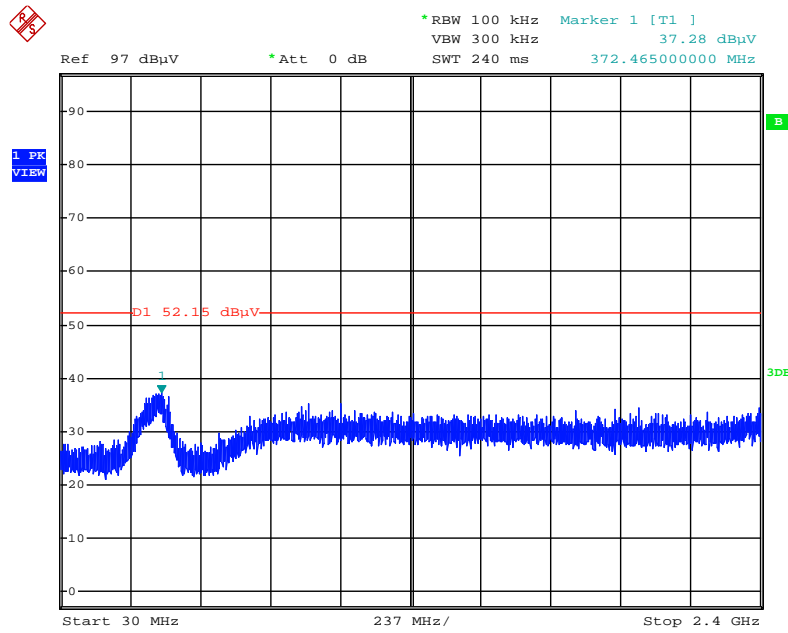
Date: 25.FEB.2016 11:14:11

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



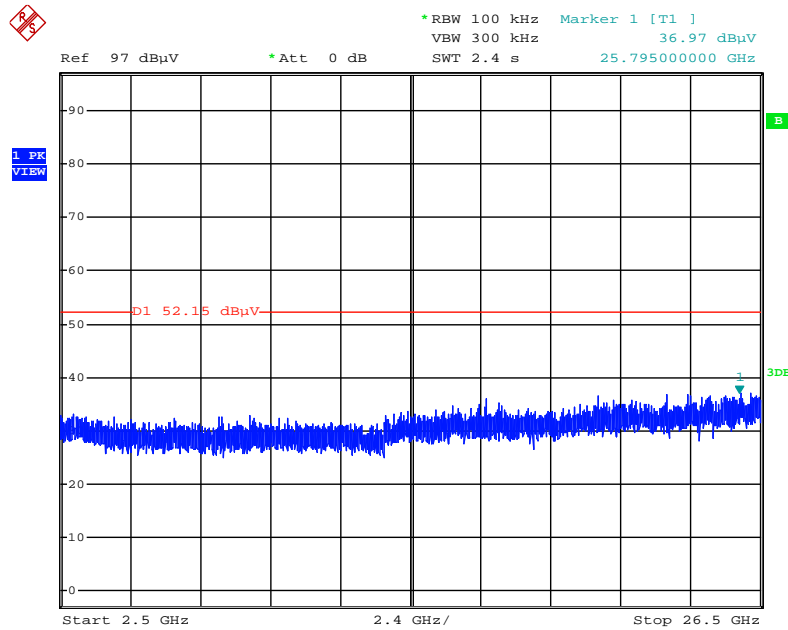
Date: 25.FEB.2016 11:14:46

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



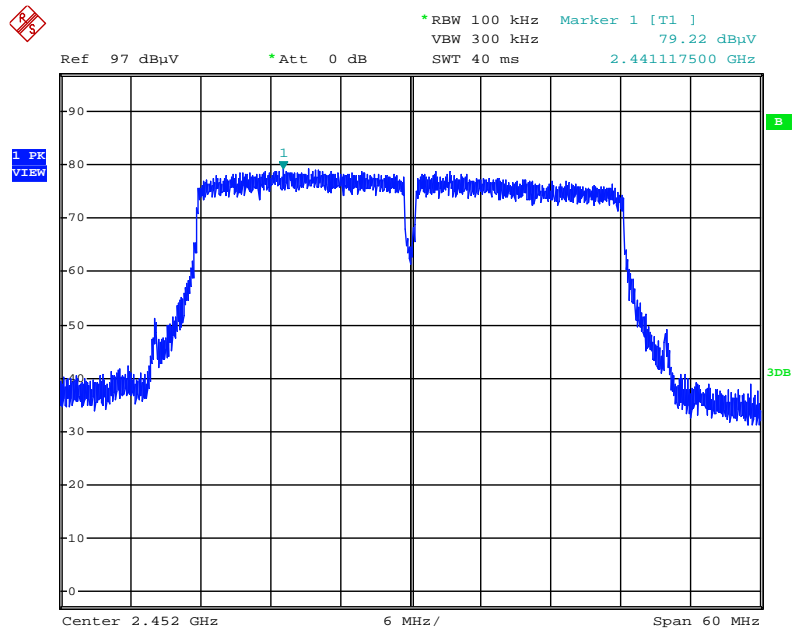
Date: 25.FEB.2016 11:17:35

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



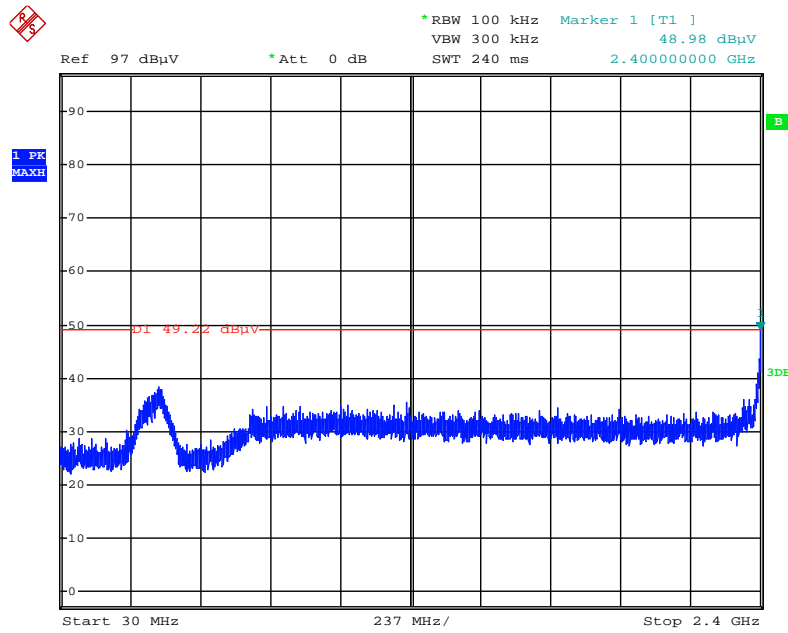
Date: 25.FEB.2016 11:16:59

Plot on Configuration IEEE 802.11n MCS0 HT40 / Reference Level



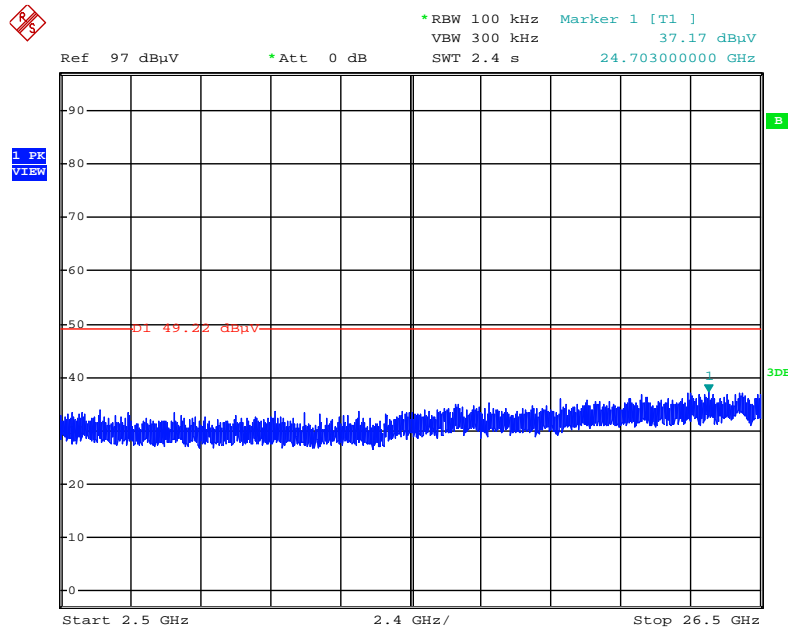
Date: 25.FEB.2016 12:28:08

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



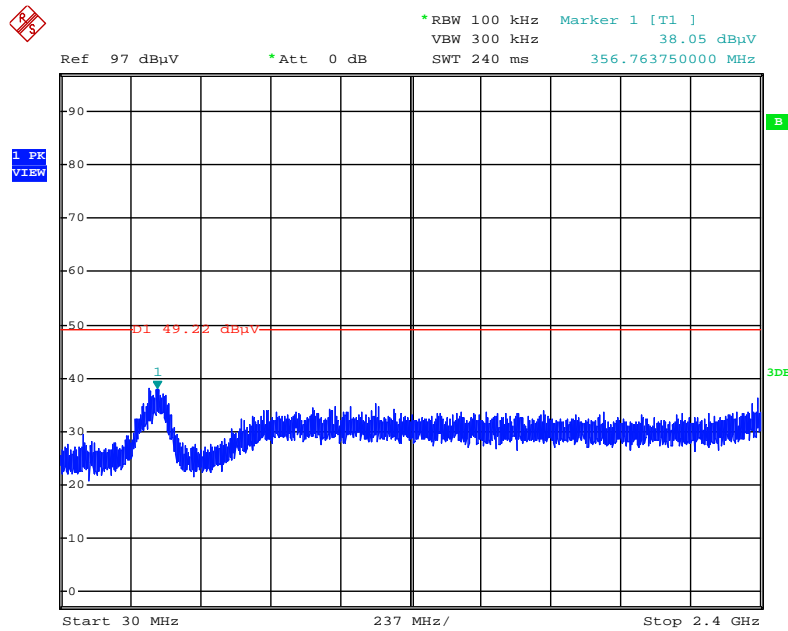
Date: 25.FEB.2016 12:30:45

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



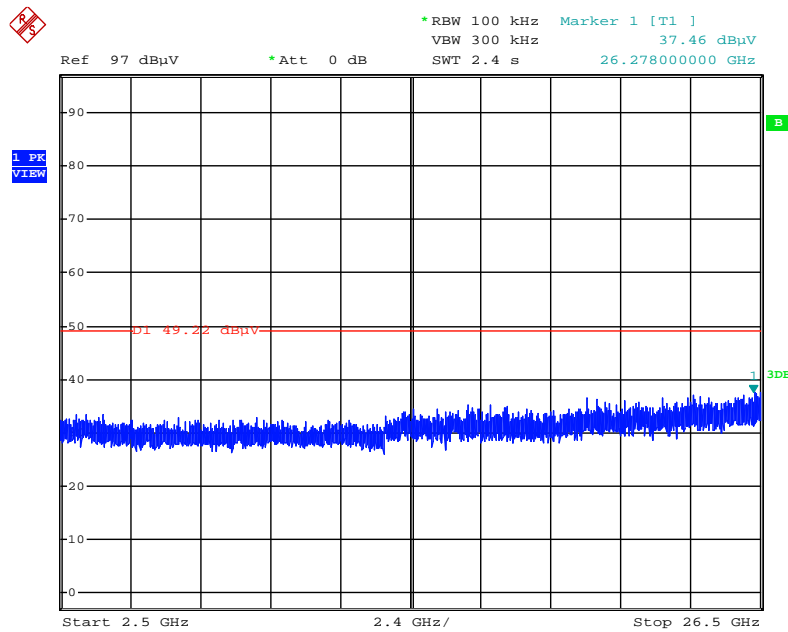
Date: 25.FEB.2016 12:32:02

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



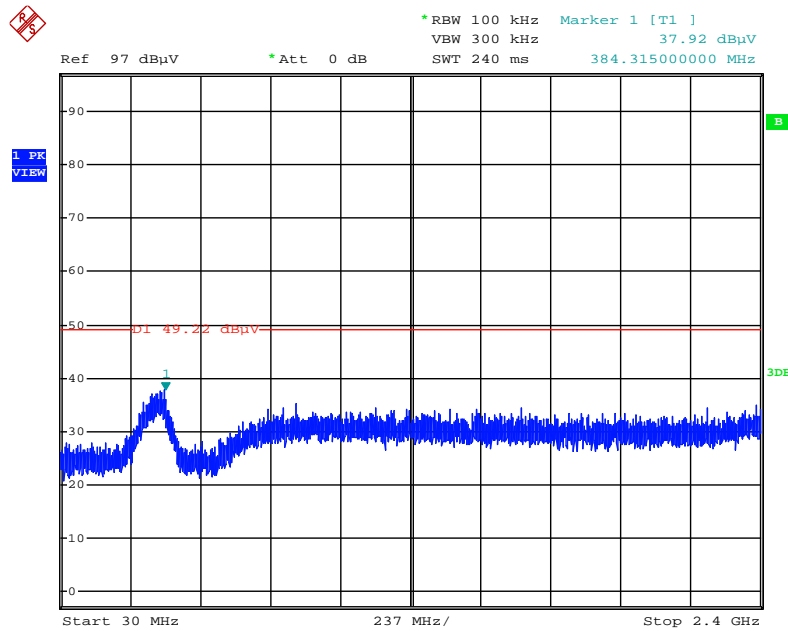
Date: 25.FEB.2016 12:34:10

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



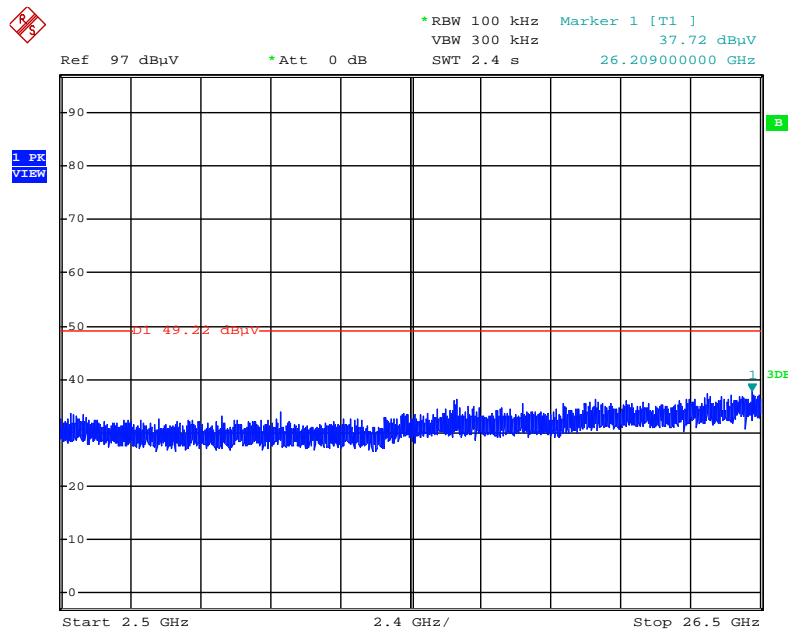
Date: 25.FEB.2016 12:33:44

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



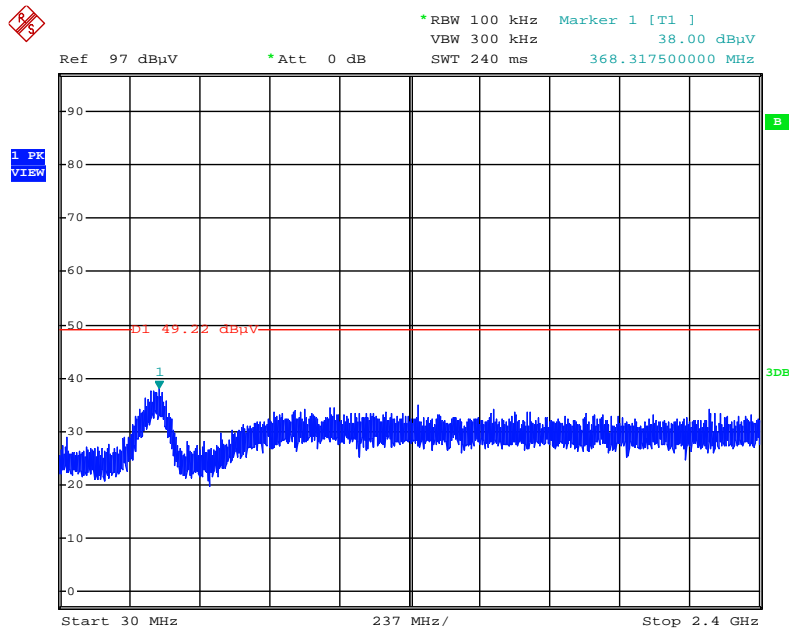
Date: 25.FEB.2016 12:34:54

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



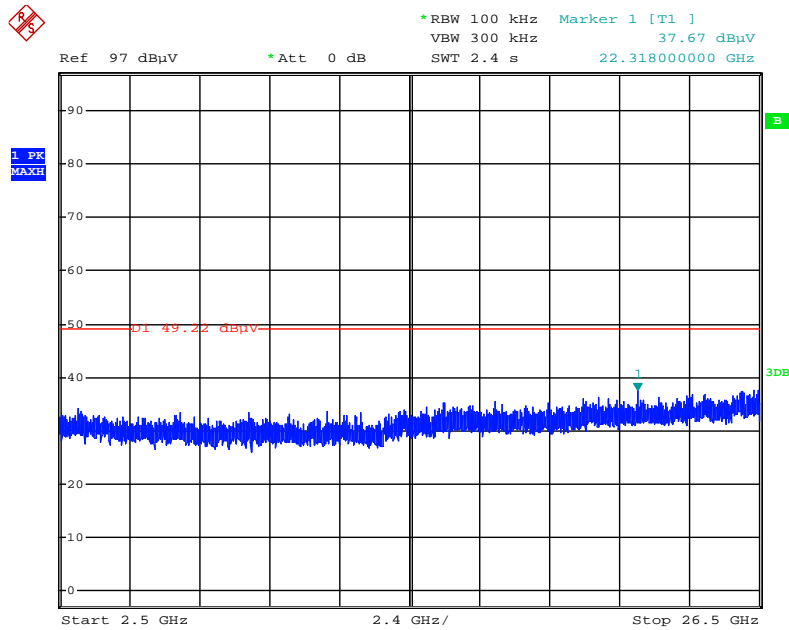
Date: 25.FEB.2016 12:35:21

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



Date: 25.FEB.2016 12:36:40

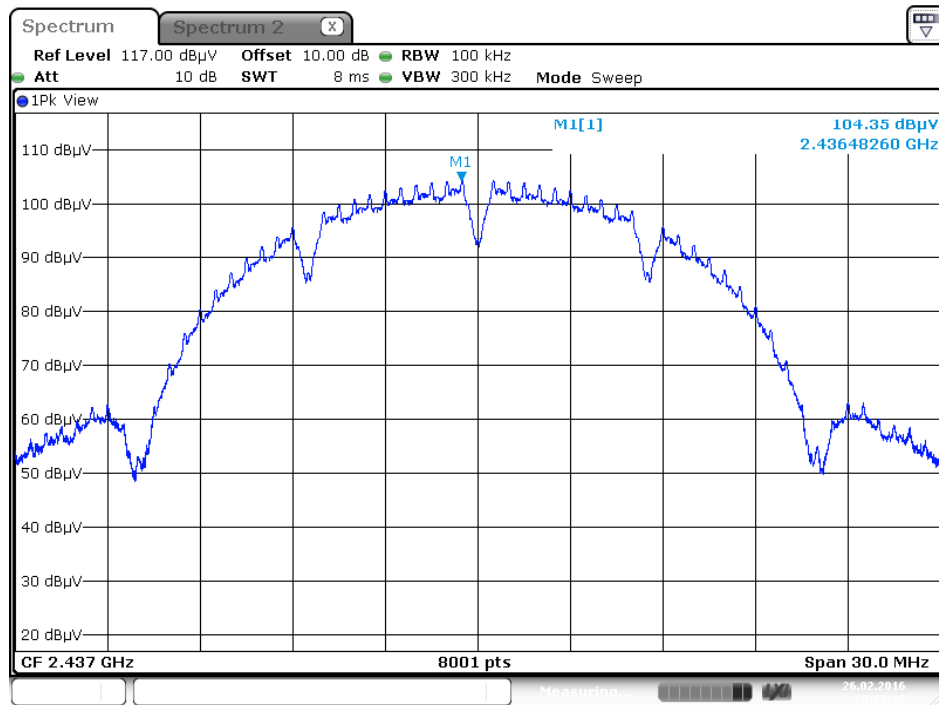
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 11 / 2500MHz~26500MHz (down 30dBc)



Date: 25.FEB.2016 12:36:18

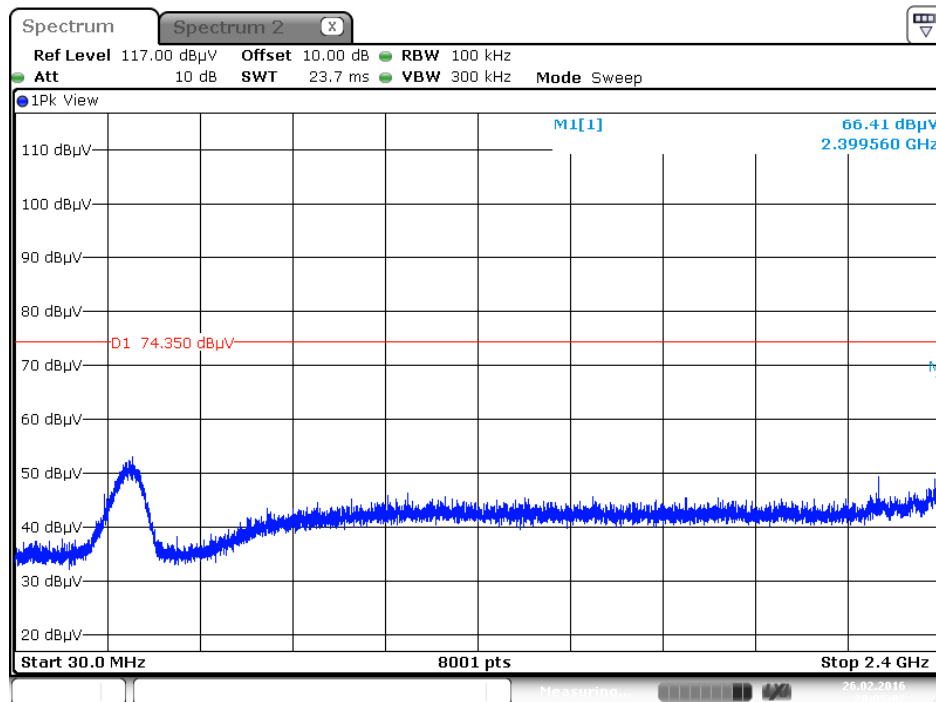
Test Moe: Mode 3

Plot on Configuration IEEE 802.11b / Reference Level

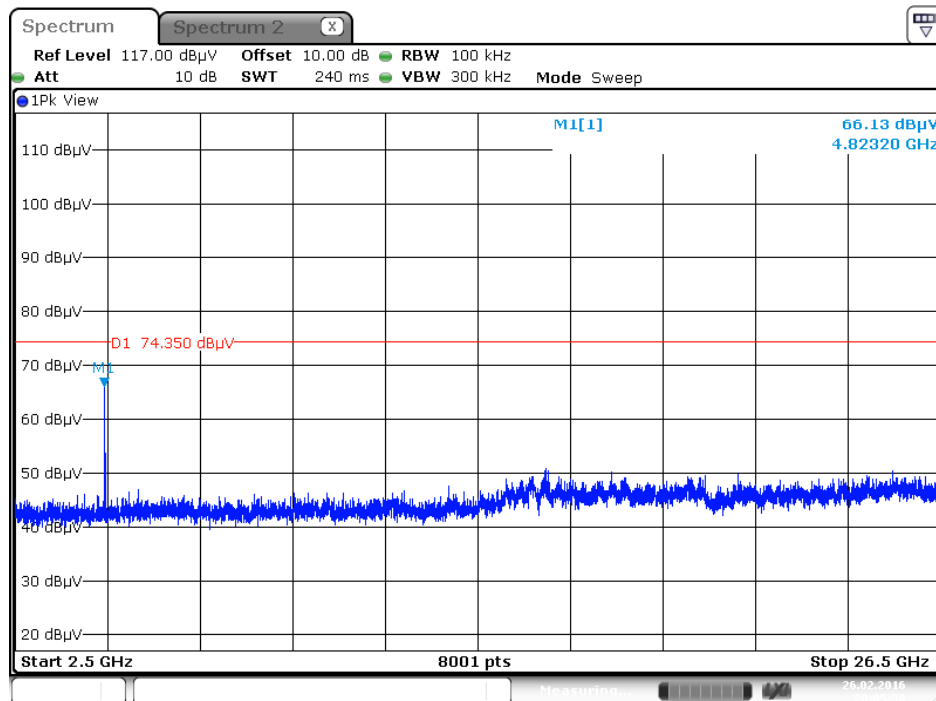


Date: 26.FEB.2016 20:03:10

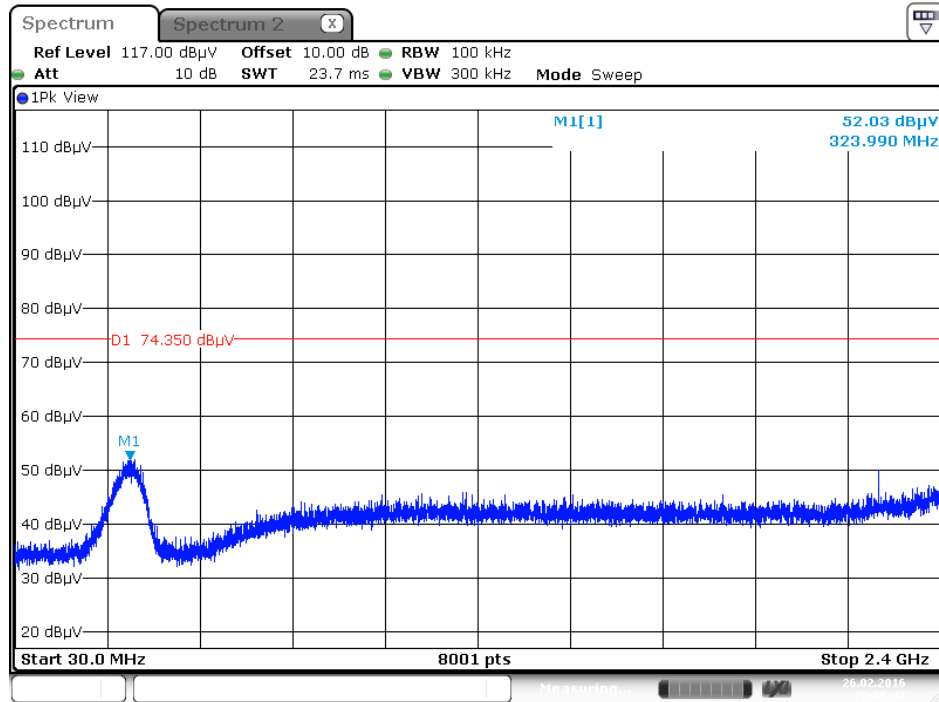
Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



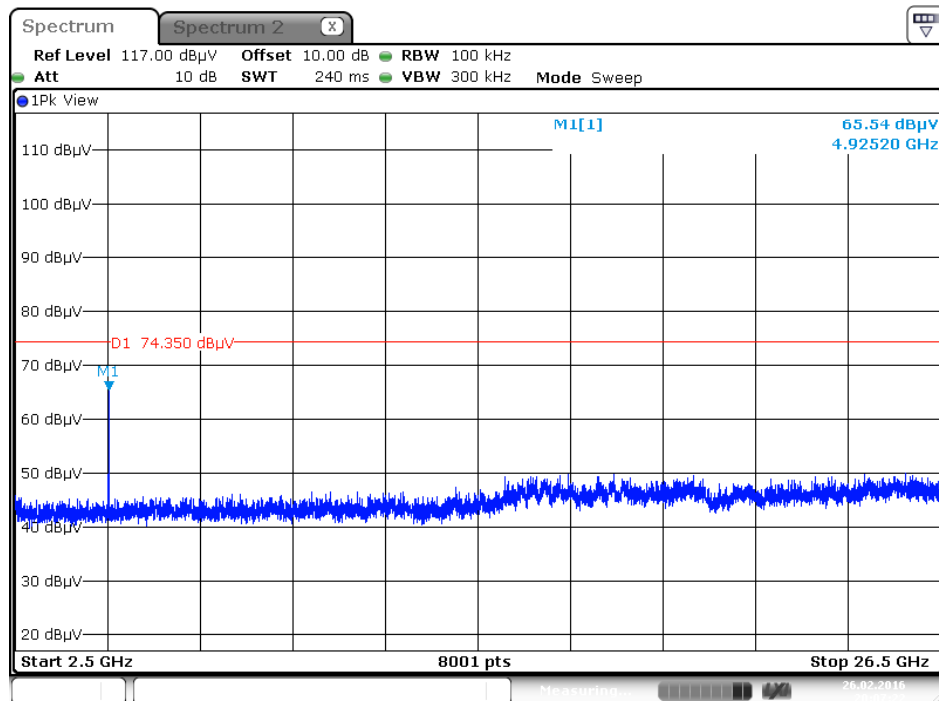
Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



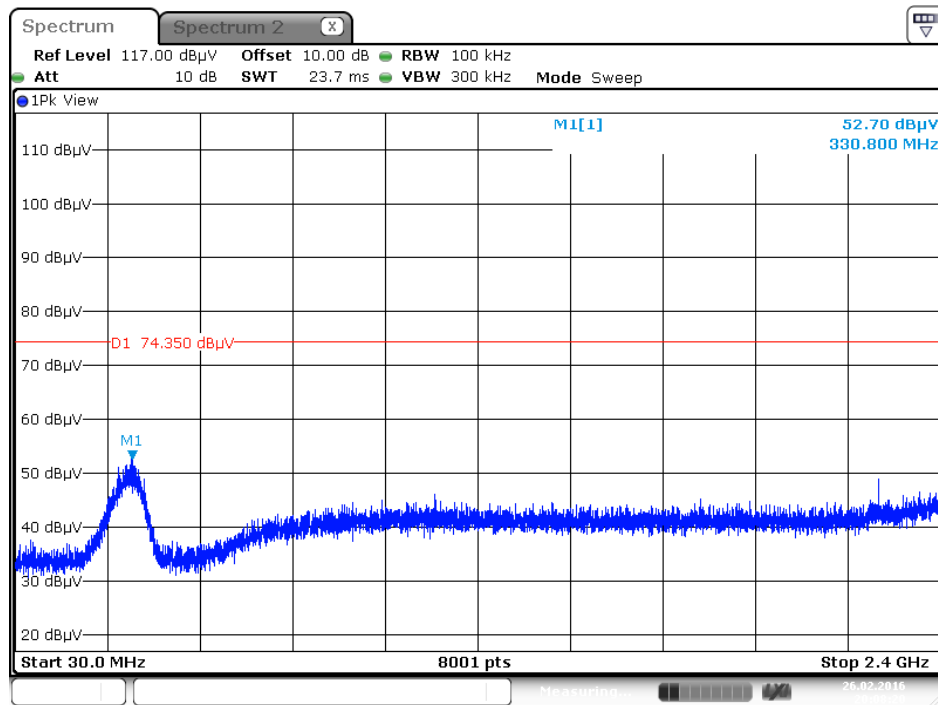
Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



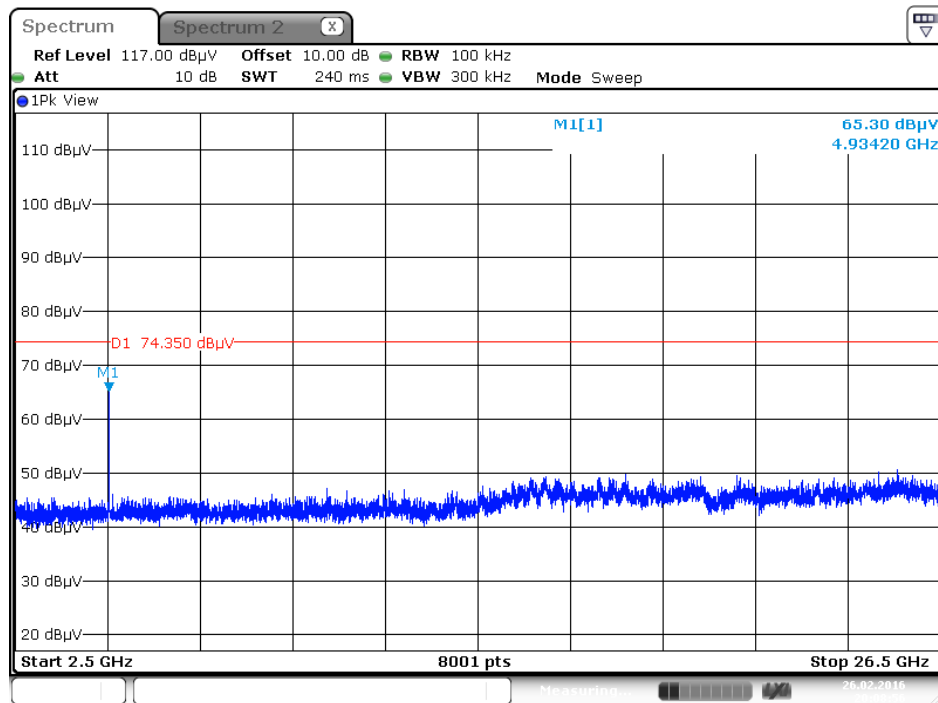
Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



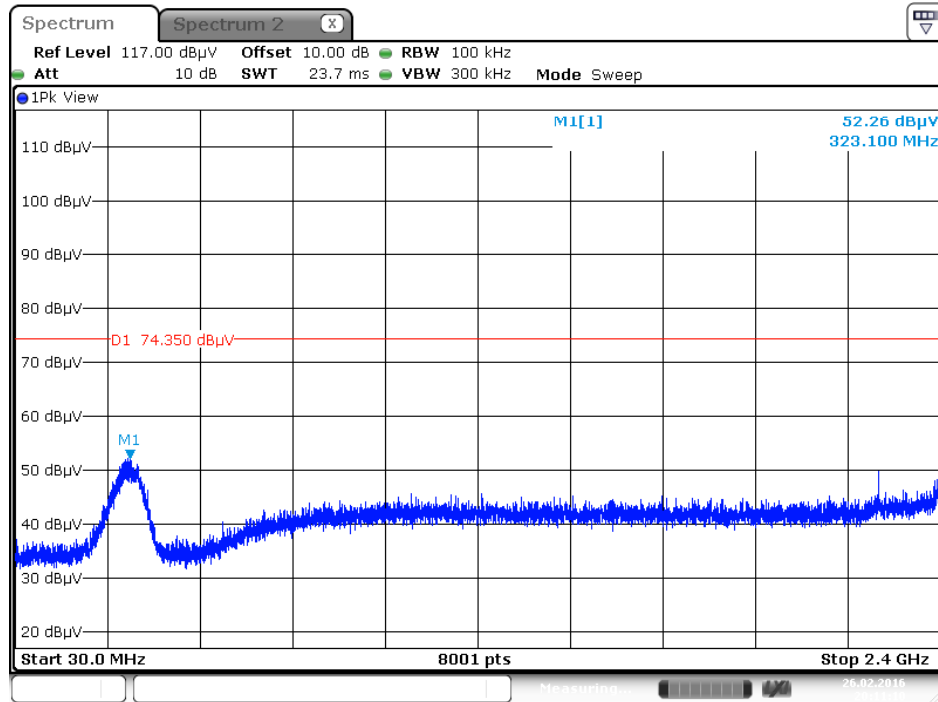
Plot on Configuration IEEE 802.11b / CH 12 / 30MHz~2400MHz (down 30dBc)



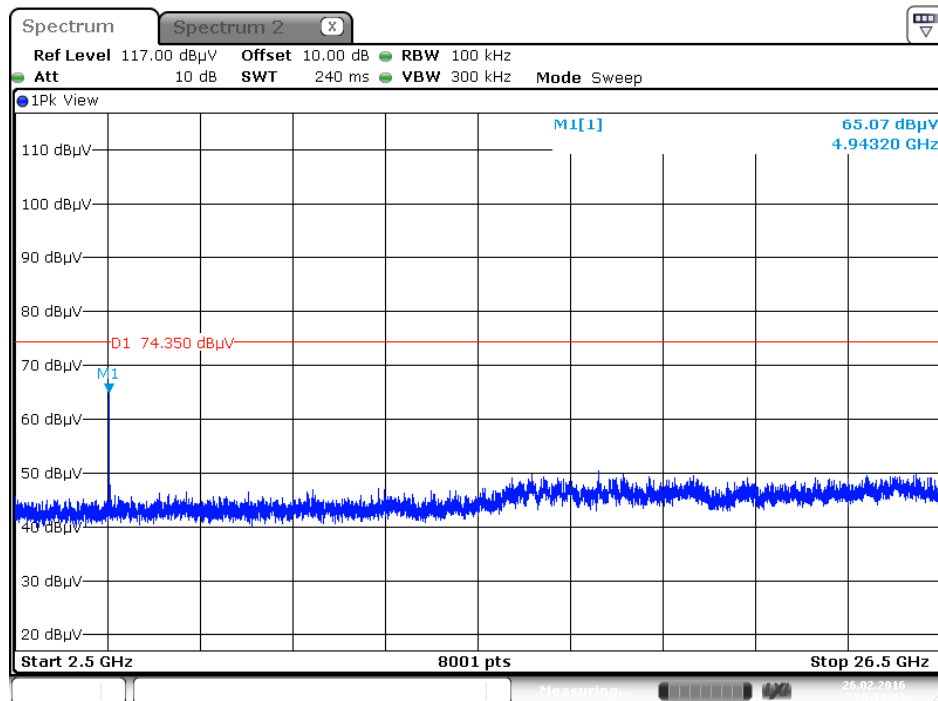
Plot on Configuration IEEE 802.11b / CH 12 / 2500MHz~26500MHz (down 30dBc)



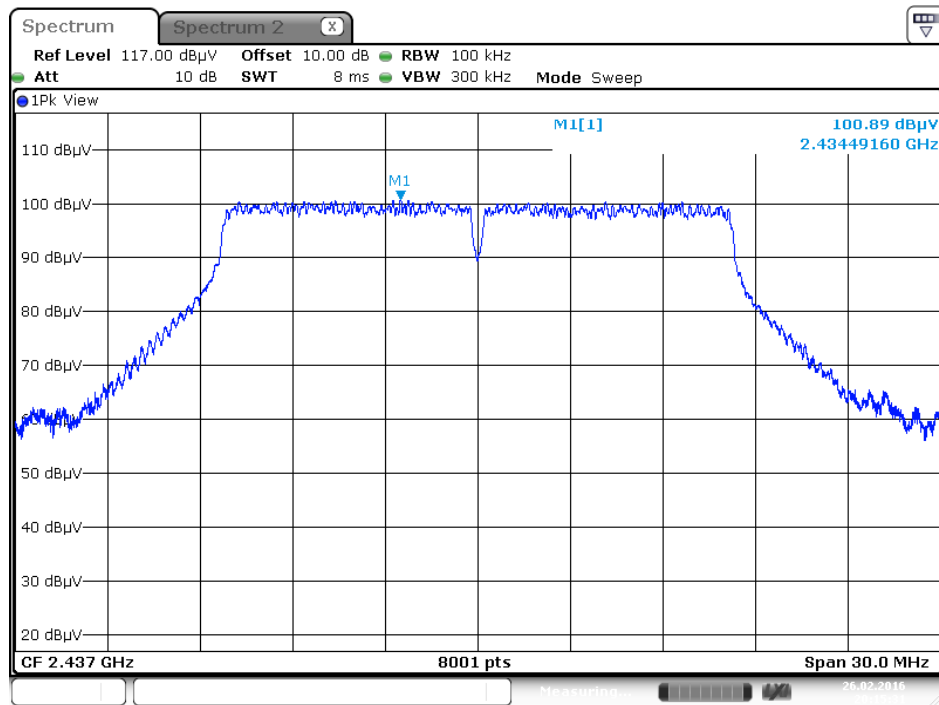
Plot on Configuration IEEE 802.11b / CH 13 / 30MHz~2400MHz (down 30dBc)



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

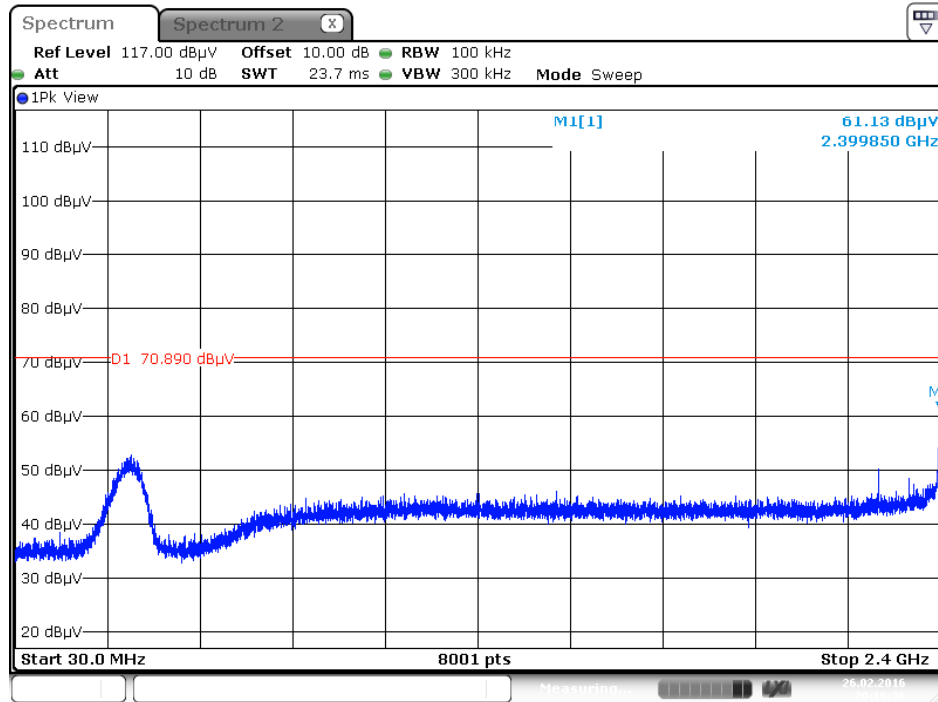


Plot on Configuration IEEE 802.11g / Reference Level

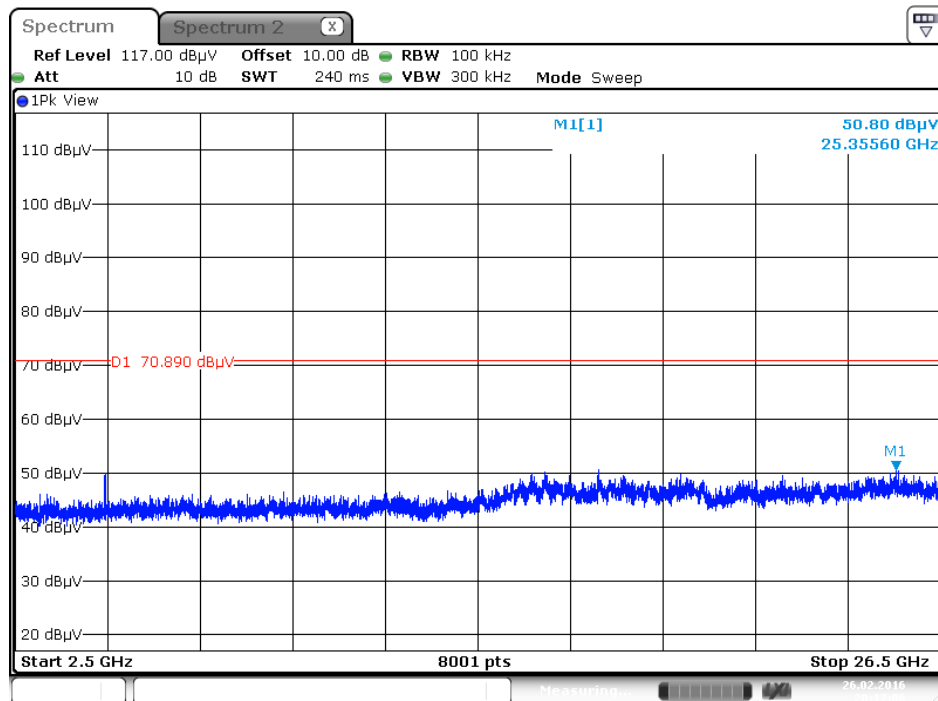


Date: 26.FEB.2016 20:15:32

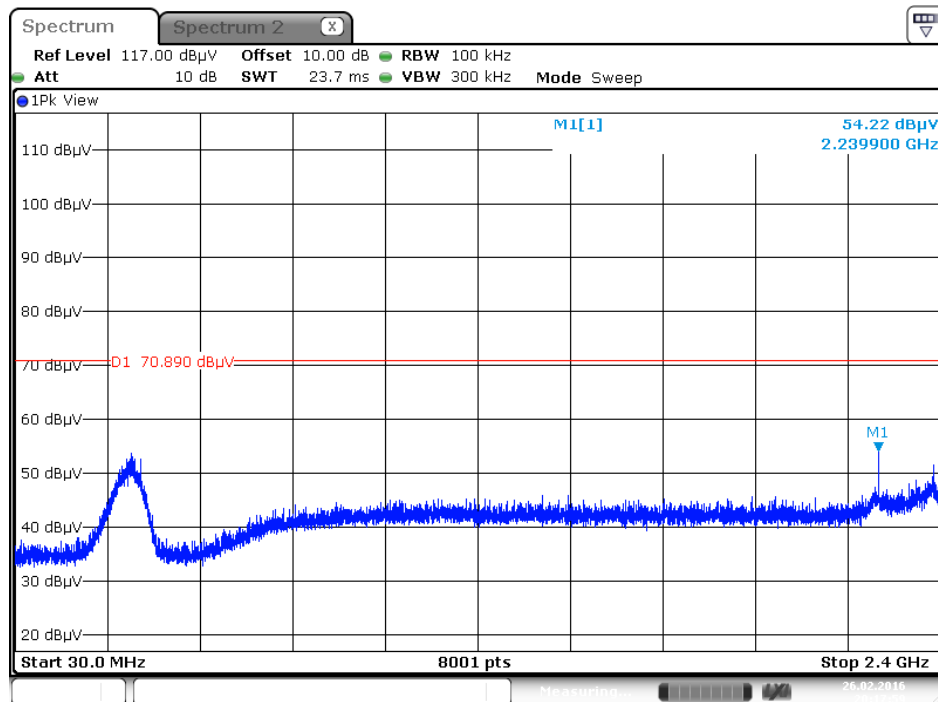
Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



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

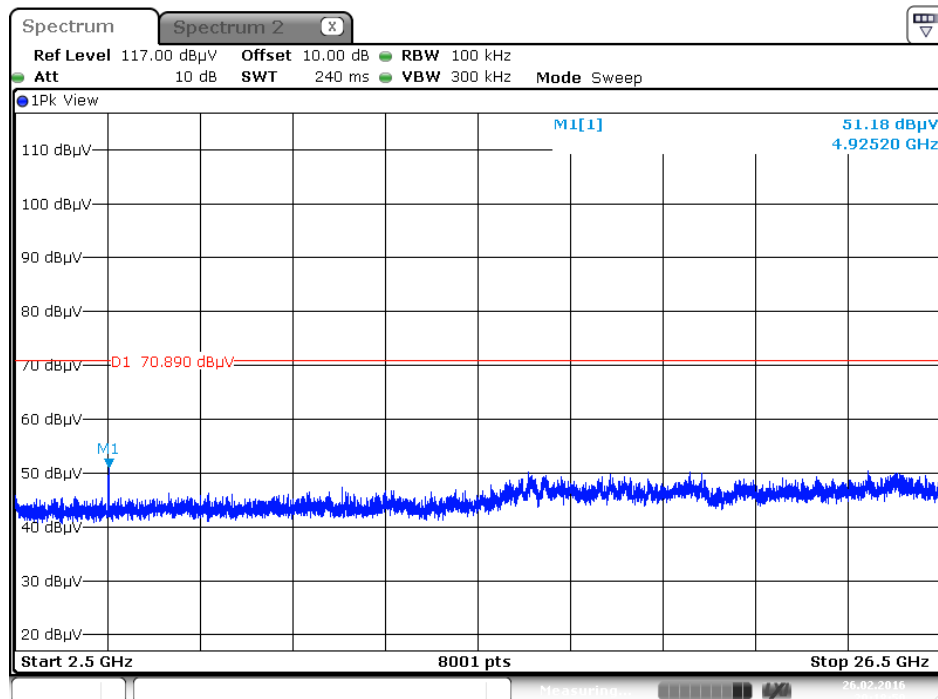


Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



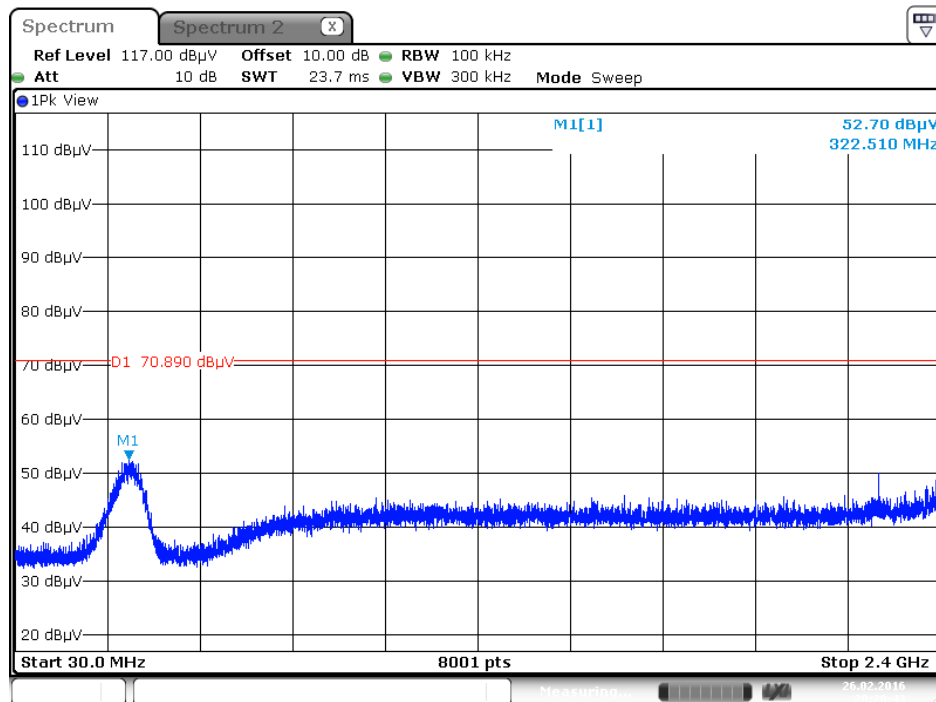
Date: 26.FEB.2016 20:18:00

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

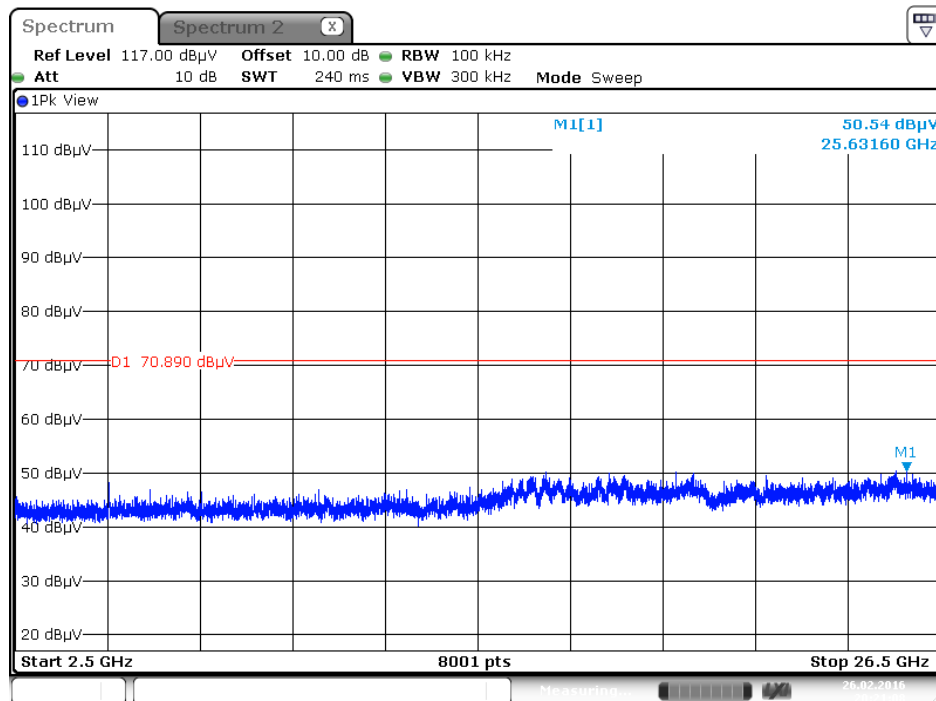


Date: 26.FEB.2016 20:18:50

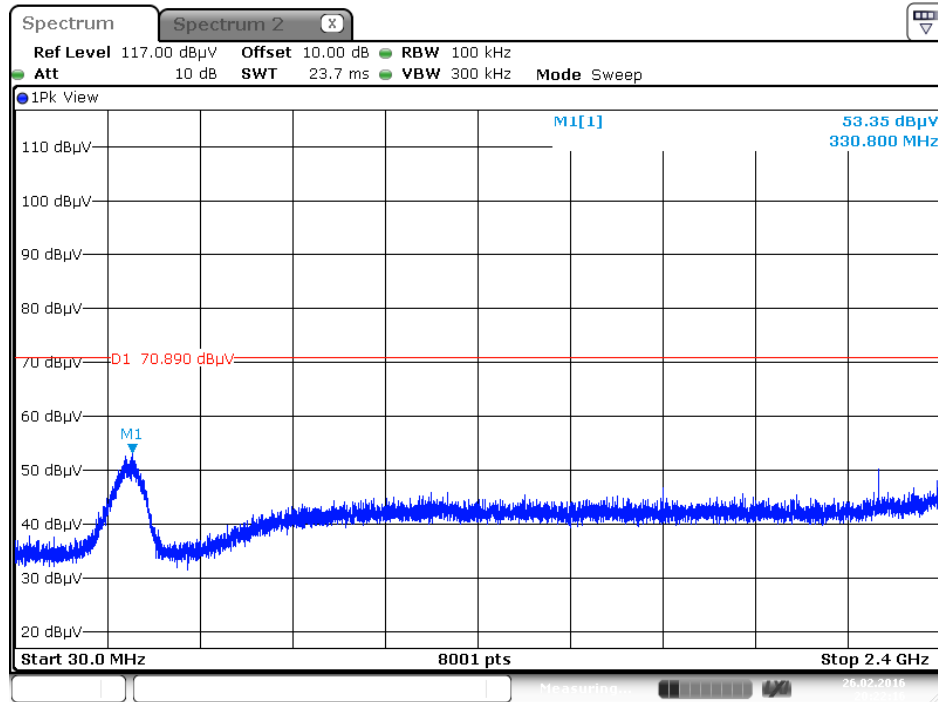
Plot on Configuration IEEE 802.11g / CH 12 / 30MHz~2400MHz (down 30dBc)



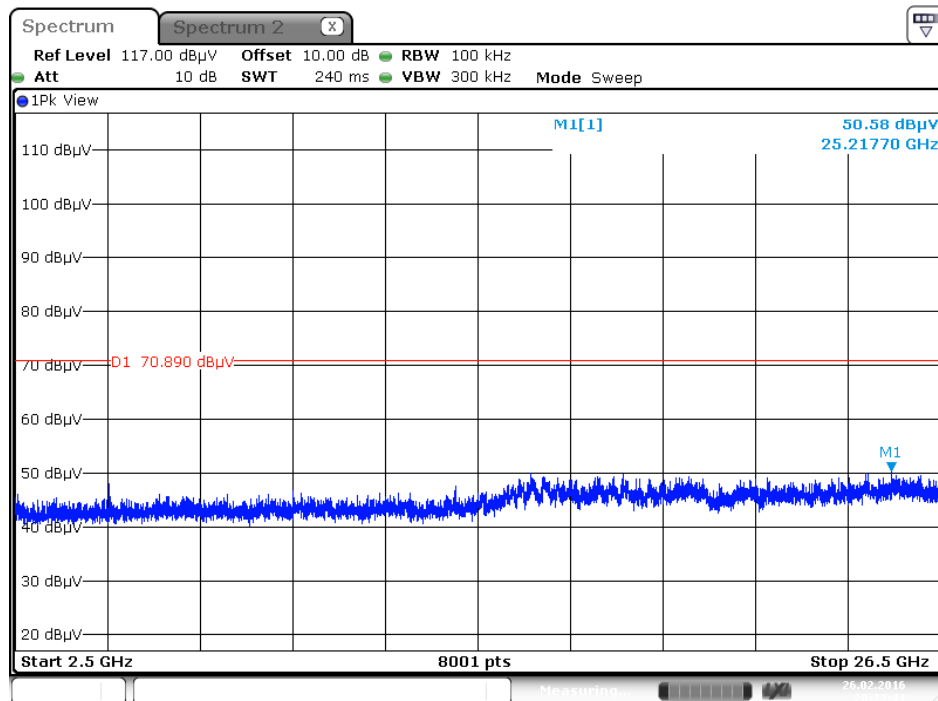
Plot on Configuration IEEE 802.11g / CH 12 / 2500MHz~26500MHz (down 30dBc)



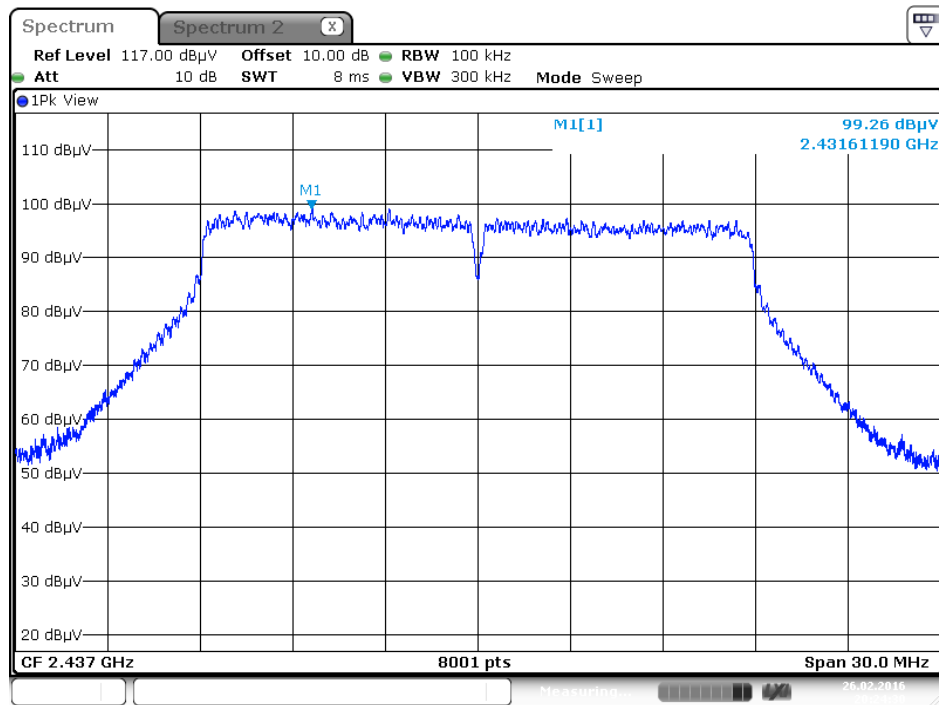
Plot on Configuration IEEE 802.11g / CH 13 / 30MHz~2400MHz (down 30dBc)



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

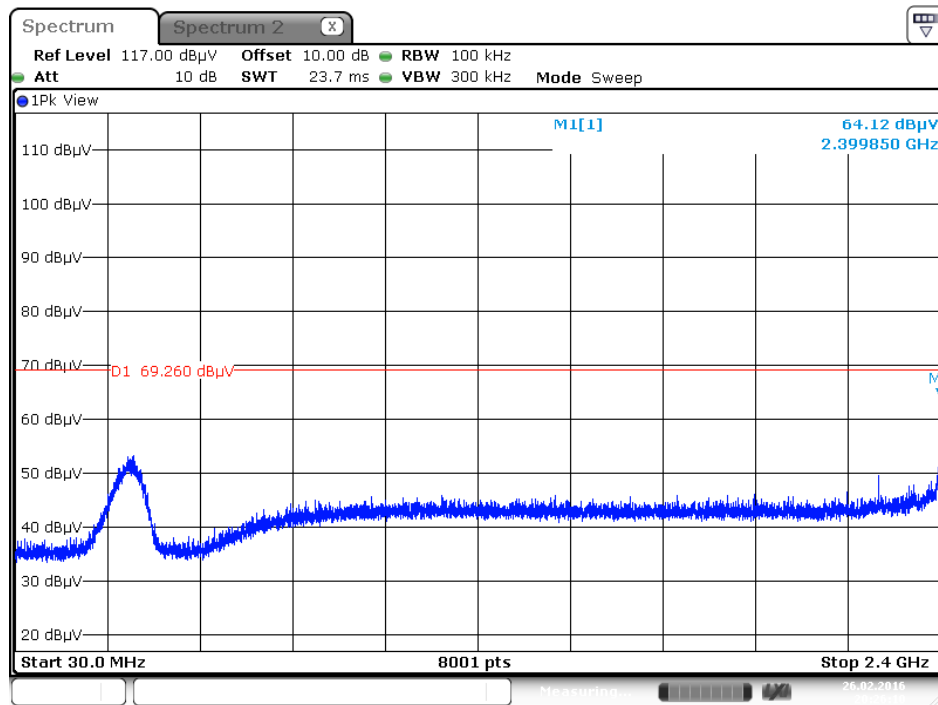


Plot on Configuration IEEE 802.11n MCS0 HT20 / Reference Level

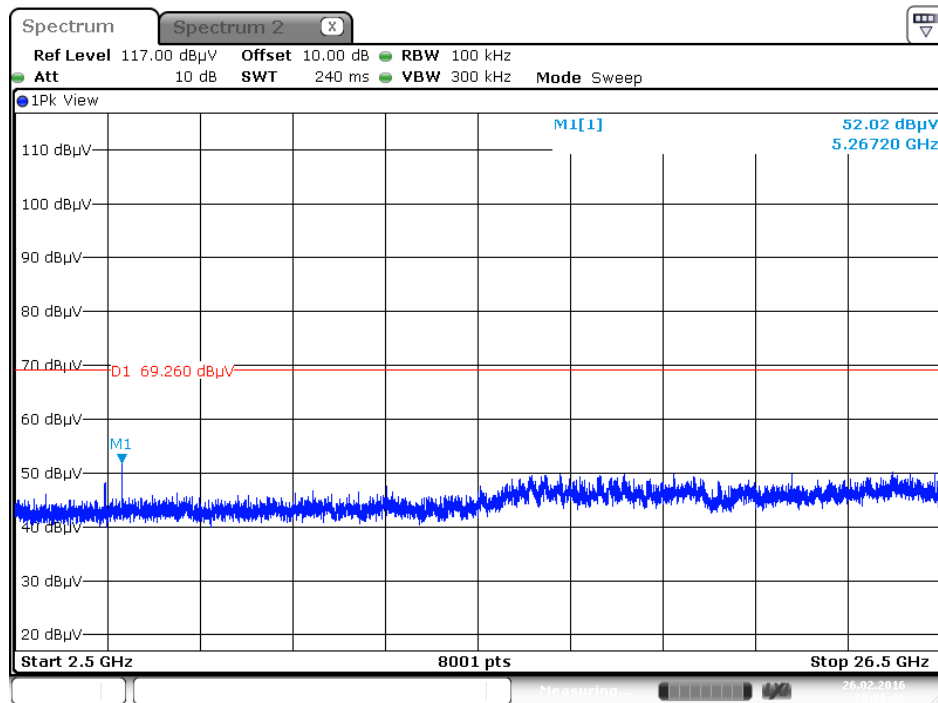


Date: 26.FEB.2016 20:24:30

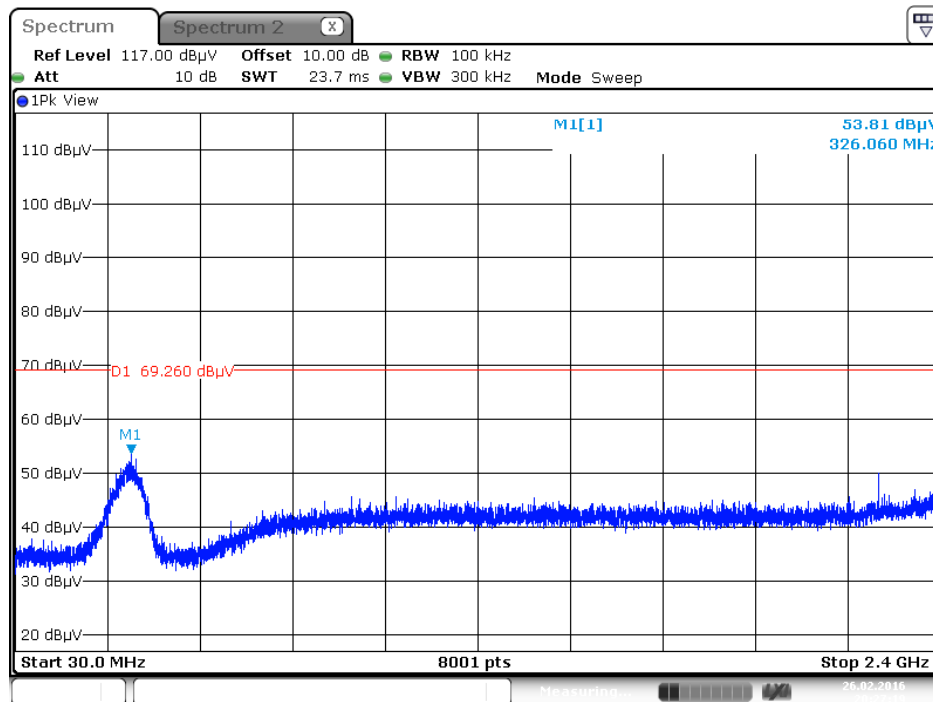
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



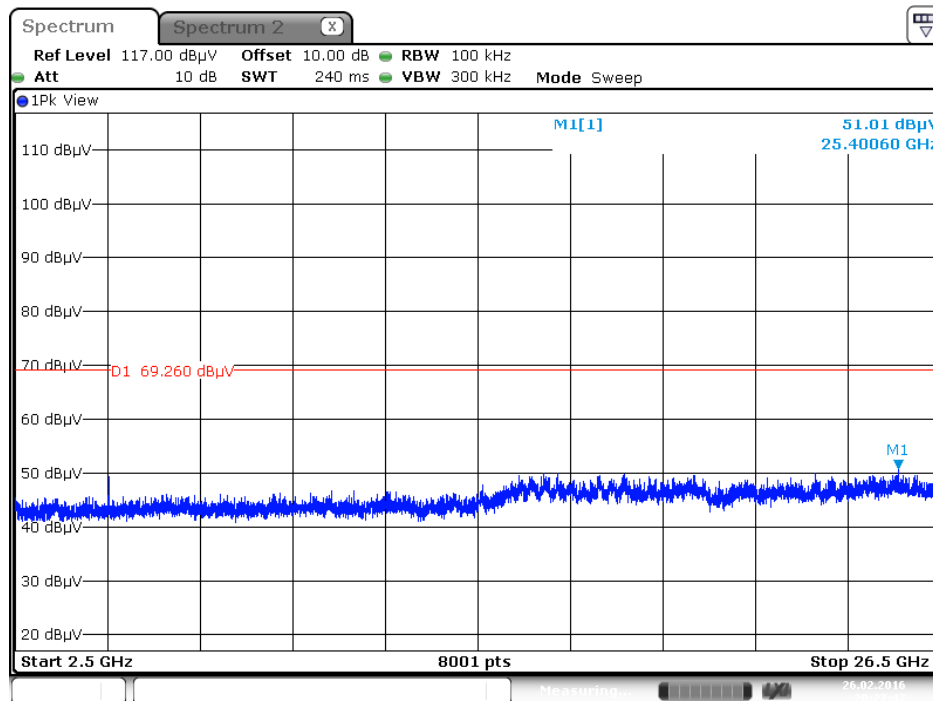
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



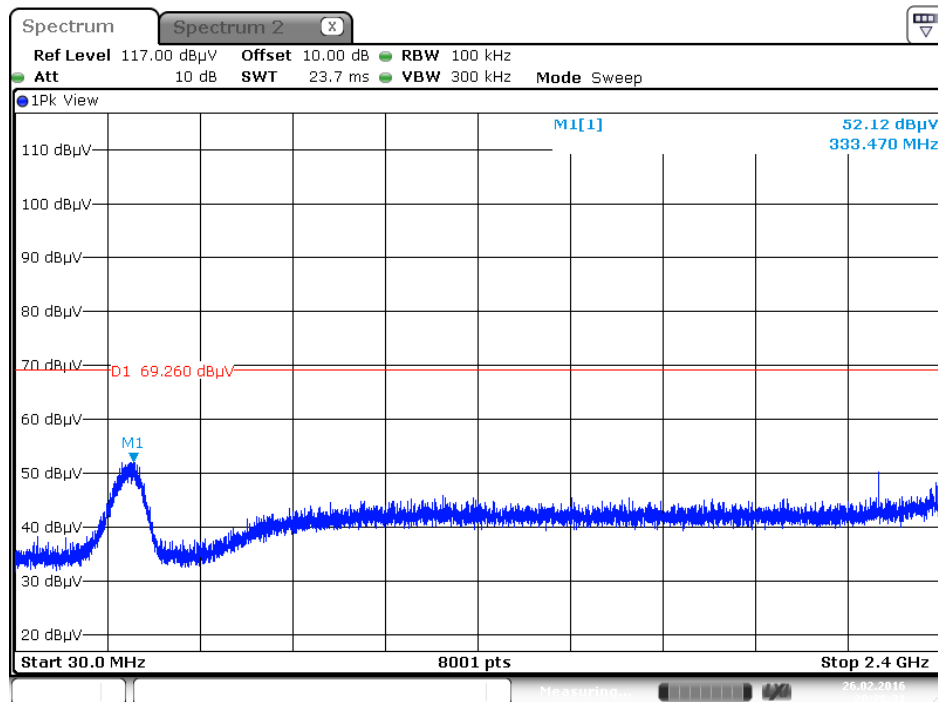
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



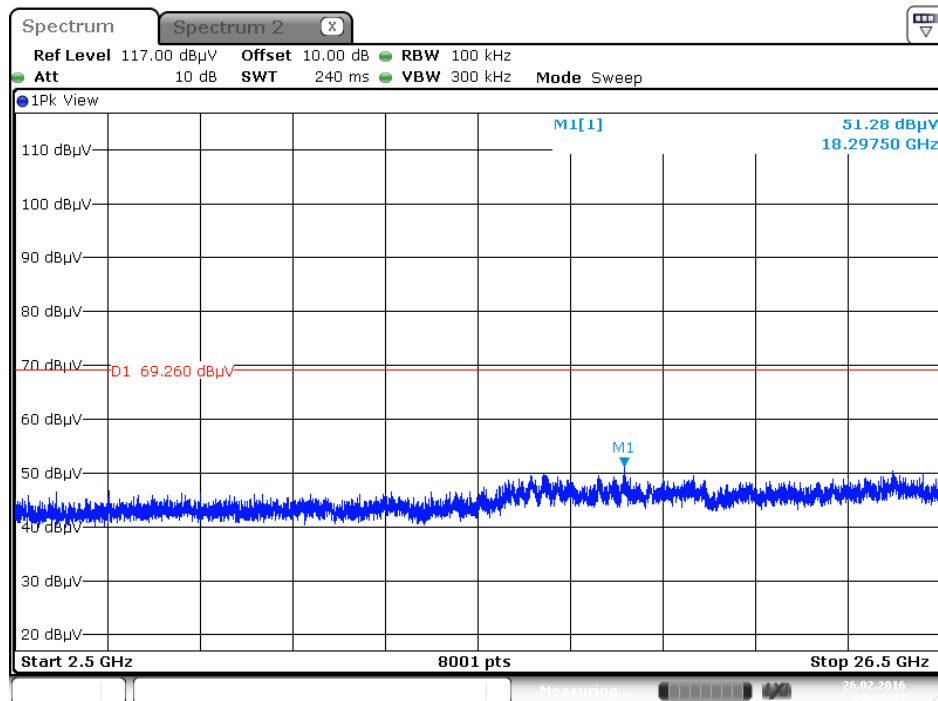
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



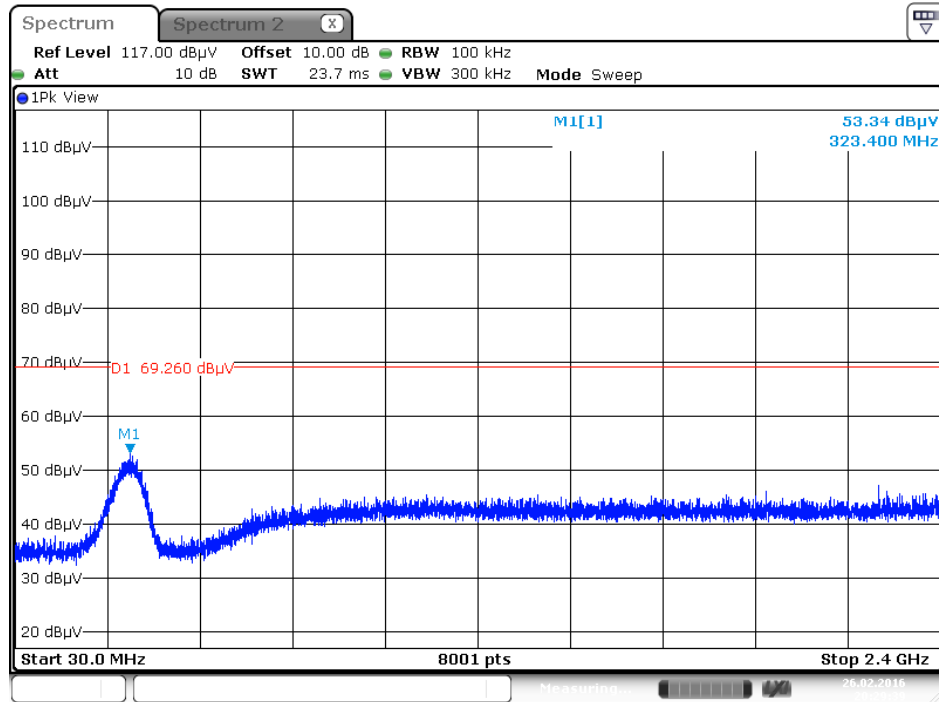
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 12 / 30MHz~2400MHz (down 30dBc)



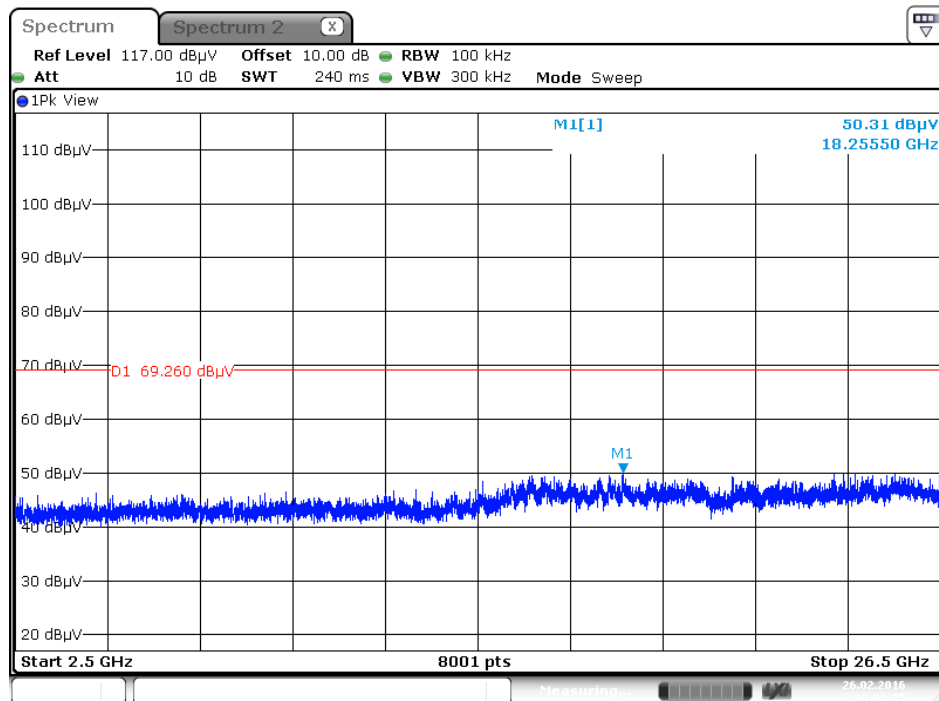
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 12 / 2500MHz~26500MHz (down 30dBc)



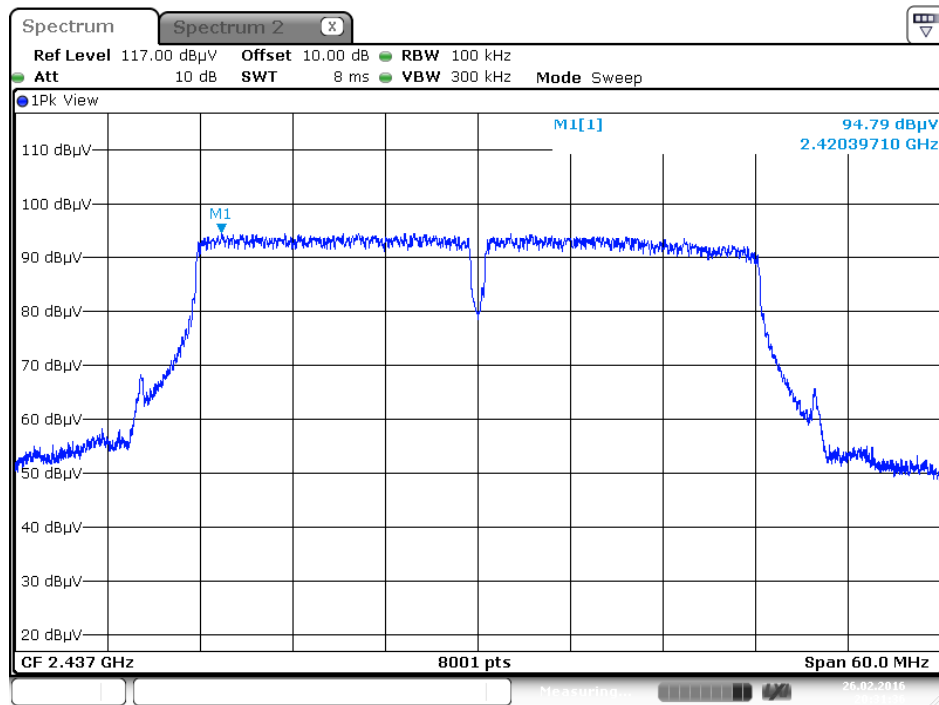
Plot on Configuration IEEE 802.11n MCS0 HT20 / CH 13 / 30MHz~2400MHz (down 30dBc)



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

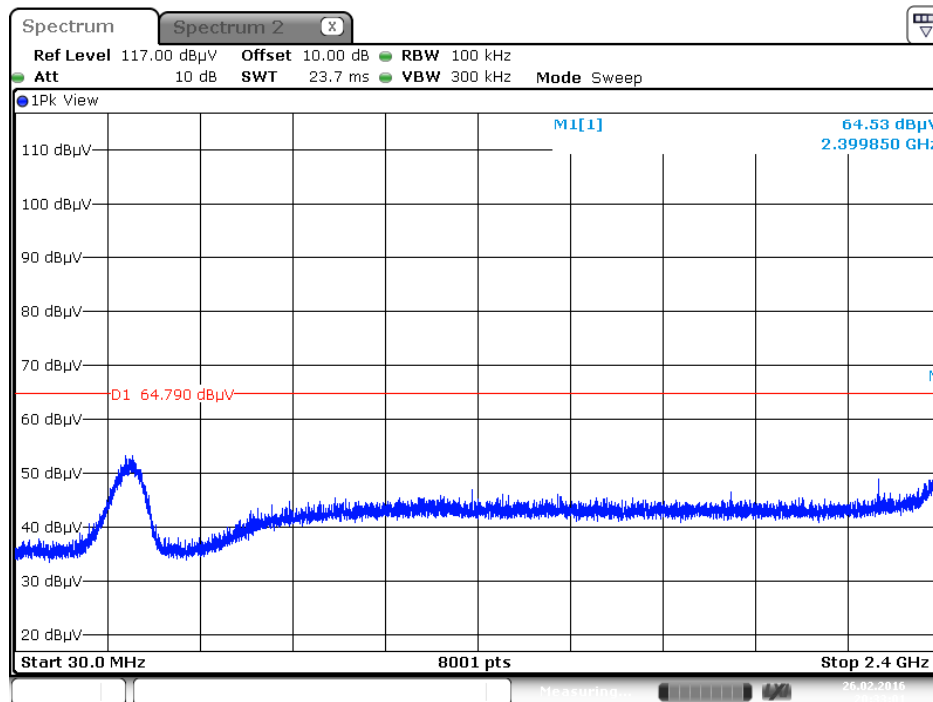


Plot on Configuration IEEE 802.11n MCS0 HT40 / Reference Level

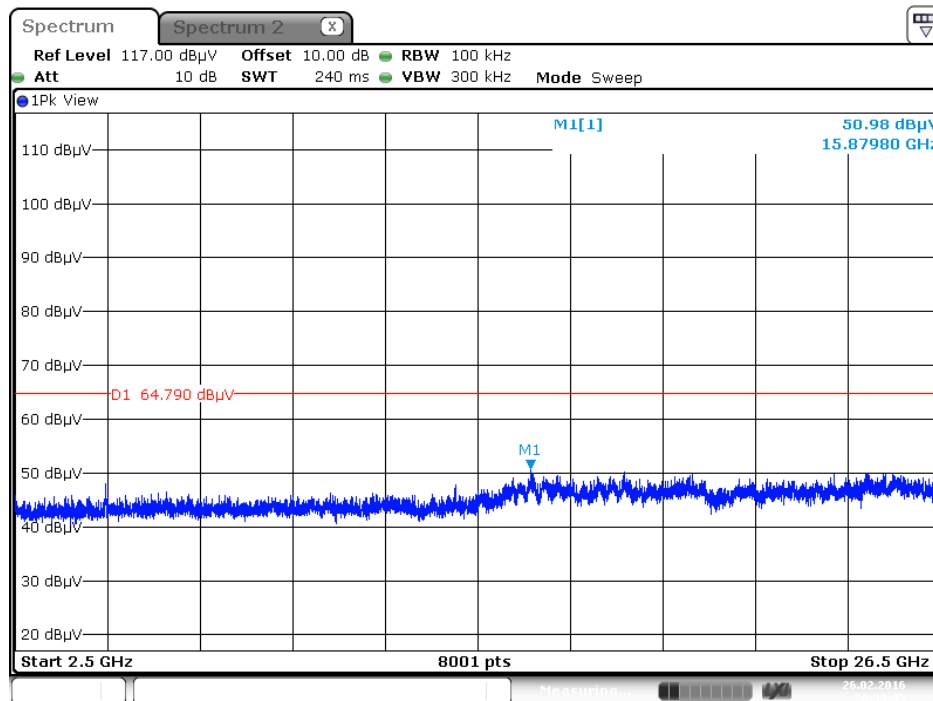


Date: 26.FEB.2016 20:31:36

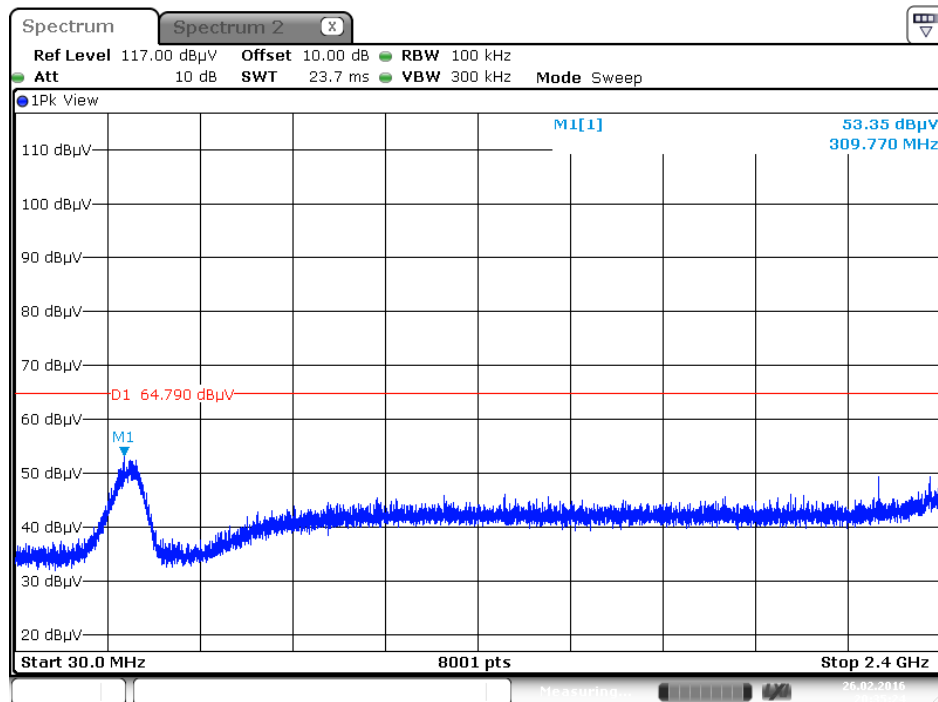
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



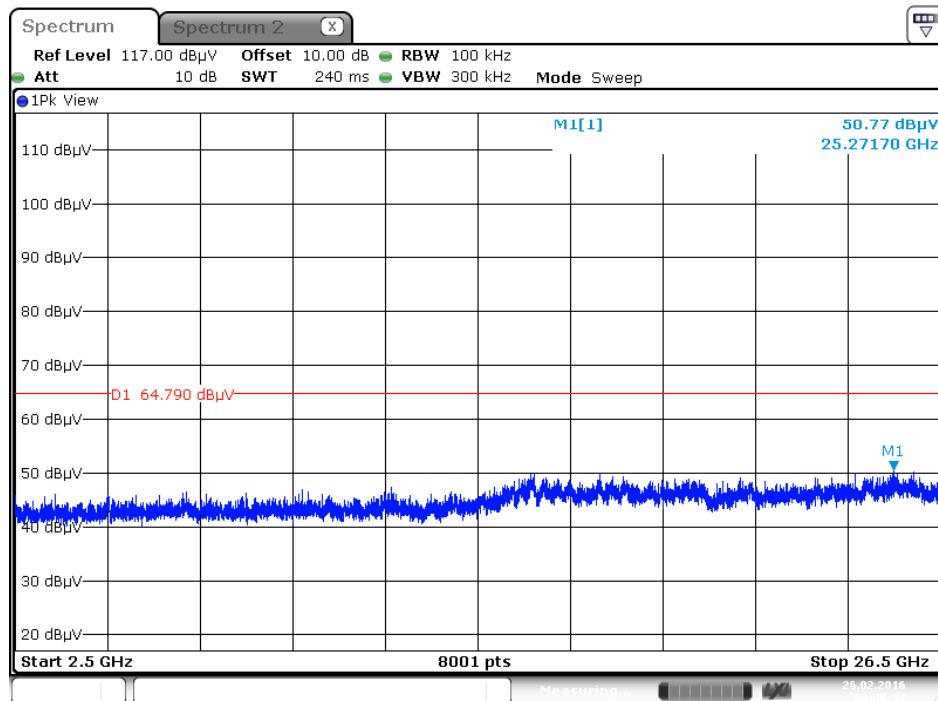
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



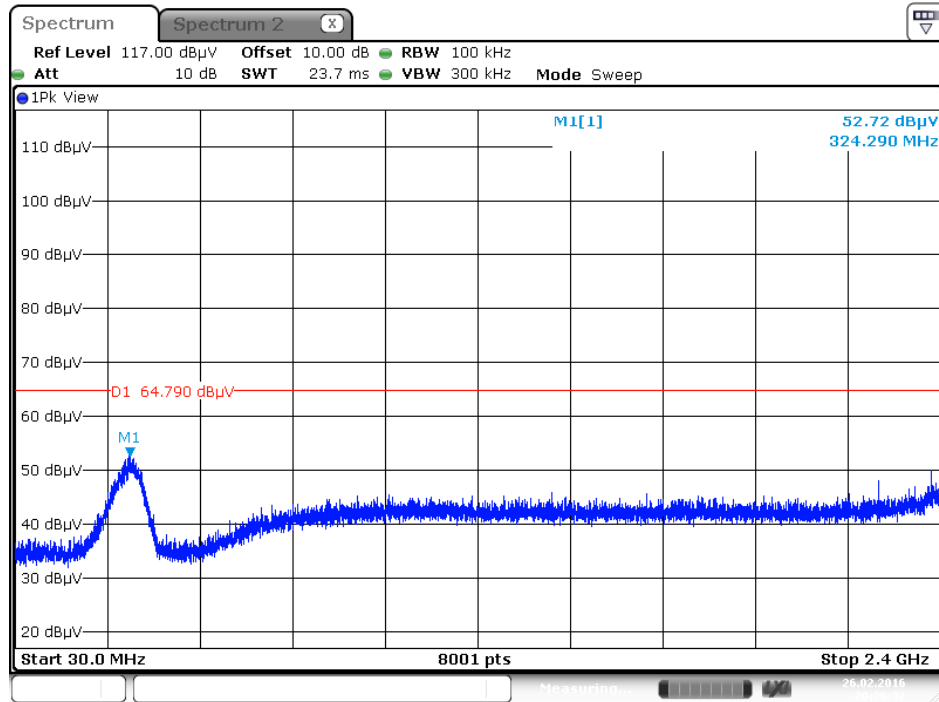
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 30MHz~2400MHz (down 30dBc)



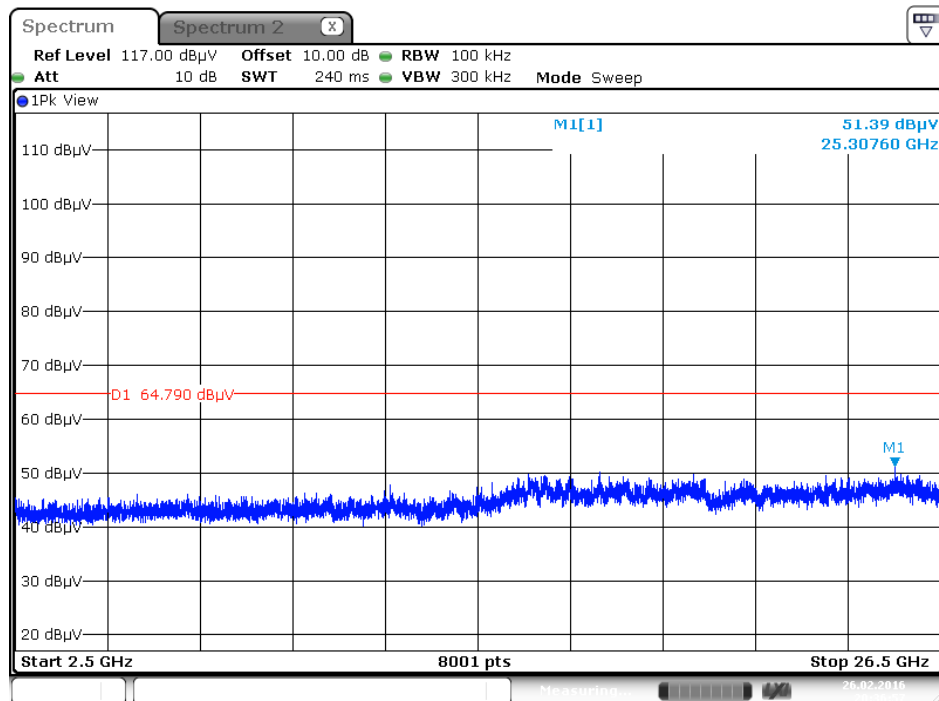
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



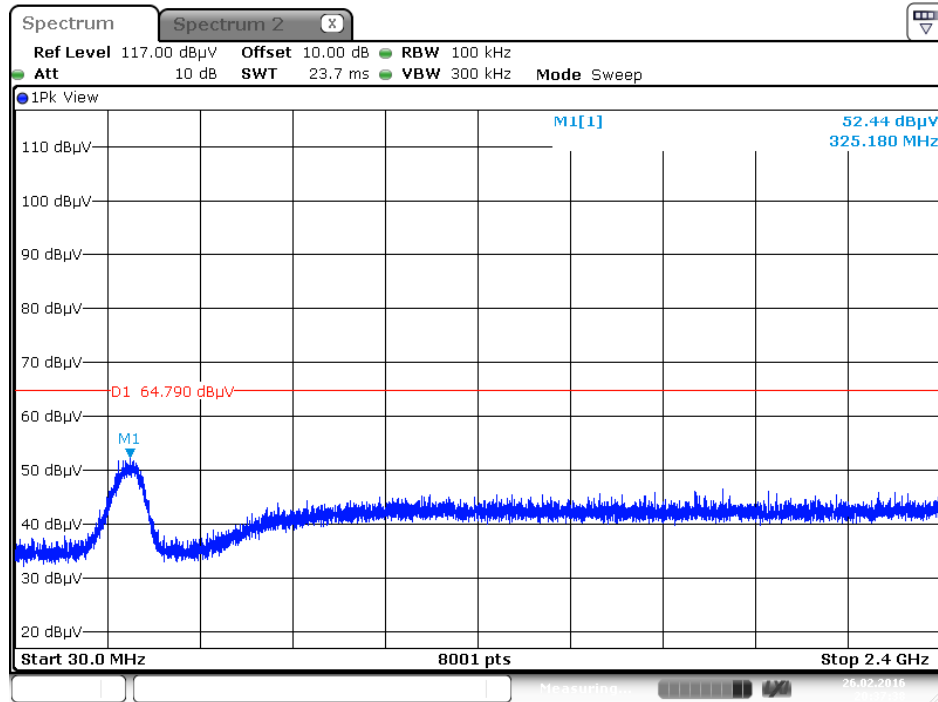
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 10 / 30MHz~2400MHz (down 30dBc)



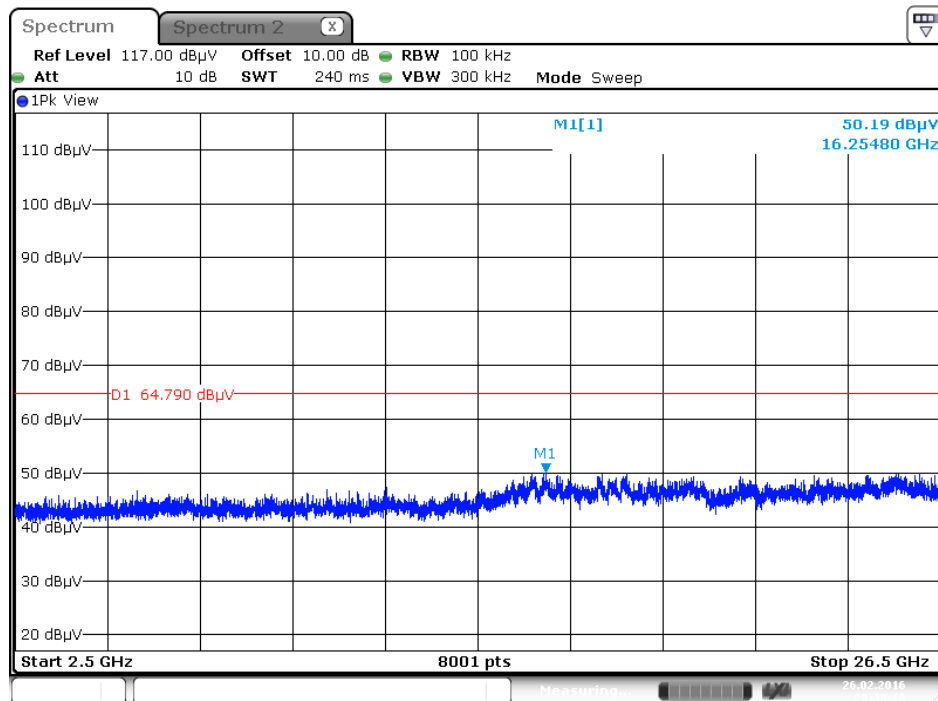
Plot on Configuration IEEE 802.11n MCS0 HT40 / CH 10 / 2500MHz~26500MHz (down 30dBc)



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



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



4.7. Antenna Requirements

4.7.1. 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.

4.7.2. 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
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 22, 2015	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 25, 2015	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015*	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 23, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov.13, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 27, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

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

"*" Calibration Interval of instruments listed above is two years.

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

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
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%
Conducted Emission	1.7 dB	Confidence levels of 95%