TEST REPORT
FROM
RFI GLOBAL SERVICES LTD

Test of: OWS451x

FCC ID: PVH0941

IC Certification Number: 5325A-0941

To: FCC Part 15.407: 2011 Subpart E, RSS-210 Issue 8 December 2010 and RSS-Gen Issue 3 December 2010

Test Report Serial No:
RFI-RPT-RP84500JD01C V2.0

Version 2.0 supersedes all previous versions

This Test Report Is Issued Under The Authority Of Chris Guy, Head of Global Approvals:	
Checked By:	Steven White
Signature:	
Date of Issue:	18 November 2011

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1. Customer Information

Company Name:	connectBlue AB
Address:	Norra Vallgatan 64 3V Malmo Sweden SE-211 22

2. Summary of Testing

2.1. General Information

Specification Reference:	47CFR15.407
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2011: Part 15 Subpart E (Unlicensed National Information Infrastructure Devices) - Section 15.407
Specification Reference:	47CFR15.107 and 47CFR15.109
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2011: Part 15 Subpart B (Unintentional Radiators) - Sections 15.107 and 15.109
Specification Reference:	47CFR15.207 and 47CFR15.209
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2011: Part 15 Subpart C (Intentional Radiators) - Sections 15.207 and 15.209
Specification Reference:	RSS-GEN Issue 3 December 2010
Specification Title:	General Requirements and Information for the Certification of Radio communication Equipment
Specification Reference:	RSS-210 Issue 8 December 2010
Specification Title:	Low-power Licence-exempt Radio communication Devices (All Frequency Bands): Category I Equipment.
Site Registration:	FCC: 209735; Industry Canada: 3245B-2
Location of Testing:	RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH.
Test Dates:	20 October 2011 to 28 October 2011

2.2. Summary of Test Results

FCC Reference (47CFR)	IC Reference	Measurement	Result
Part 15.407(a)	-	Transmitter Maximum Conducted Output Power	✓
-	RSS-Gen 4.8 / RSS-210 A9.2 (2 & 3)	Transmitter Maximum Equivalent Isotropically Radiated Power (EIRP)	✓
Part 15.407(b)/ 15.209(a)	RSS-Gen 4.9 RSS-210 A9.3 (2 & 3)	Transmitter Out of Band Radiated Emissions	✓
Part 15.407(b)/ 15.209(a)	RSS-Gen 4.9 RSS-210 A9.3 (2 & 3)	Transmitter Band Edge Radiated Emissions	✓

Key to Results

✓ = Complied ✗ = Did not comply

2.3. Methods and Procedures

Reference:	ANSI C63.4 (2009)
Title:	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
Reference:	ANSI C63.10 (2009)
Title:	American National Standard for Testing Unlicensed Wireless Devices

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	connectBlue AB
Model Name or Number:	OWS451x
Serial Number:	Not stated
Hardware Version Number:	cB-0941-02
Software Version Number:	2.4 2.1.9 RPS / ows451 pcti firmware 2.2.0 release.cbz
FCC ID:	PVH0941
IC Certification Number:	5325A-0941
Antenna:	InSide-EPA WLAN, 3dBi gain

3.2. Description of EUT

The equipment under test was a WLAN module with an external antenna port which provided a wireless communication link using IEEE802.11a/n WLAN.

- InSide- EPA WLAN

Note: This test report includes the test results for the Inside – EPA WLAN antenna in:
U-NII band-2 & U-NII band-3

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.4. Additional Information Related to Testing

Technology Tested:	Unlicensed National Information Infrastructure Devices (U-NII)/License-exempt local area network (LE-LAN)		
Type of Unit:	Transceiver		
Channel Spacing:	20 MHz		
Modulation:	OFDM		
Data Rate:	802.11a: 6,9,12,18,24,36,48,54 Mbps 802.11n: 6.5,13,19.5,26,39,52,58.5,65 Mbps		
Antenna Gain:	3dBi		
Power Supply Requirement(s):	Nominal	3.3V min, 5.0 V nom, 5.5V max	
Transmit & Receive Frequency Range:	5260 MHz to 5320 MHz		
Transmit & Receive Channels Tested:	**Channel ID**	**Channel Number**	**Channel Frequency (MHz)**
	Bottom	52	5260
	Middle	56	5280
	Top	64	5320
Transmit & Receive Frequency Range:	5500 MHz to 5700 MHz		
Transmit & Receive Channels Tested:	**Channel ID**	**Channel Number**	**Channel Frequency (MHz)**
	Bottom	100	5500
	Middle	120	5600
	Top	140	5700

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Dell
Brand Name:	Laptop
Model Name or Number:	Latitude D610

Description:	Connect Blue AB
Brand Name:	Development Board
Model Name or Number:	0068-01-002440

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

- Continuously transmitting at maximum power on the bottom, centre and top channels as required using the highest and lowest data rates of each modulation scheme.

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- Controlled using a bespoke application on the laptop PC supplied by the client. The application was used to enable continuous transmission and idle mode (enabled but not transmitting) and to select the test channels, data rates and modulation schemes as required.
- Transmitter spurious emissions were performed with the EUT in the mode which gave the highest Maximum Peak Output Power level, as this was deemed to be worst case.

5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to *Section 6; Measurement Uncertainty* for details.

5.2. Test Results

5.2.1. Conducted Maximum Peak Output Power

Test Summary:

Test Engineer:	Crawford Lindsay	**Test Date:**	21 October 2011
Test Sample Serial No:	Id3		

FCC Reference:	FCC 15.407(a)
Test Method Used:	As detailed in ANSI C63.10 Section 6.10.3.1 Method 1

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	26

Notes:

- The limit was the lesser of 24 dBm or 11 dBm + 10 x Log (B) where B is the emission bandwidth measured above.

  The smallest emissions bandwidth recorded in RFI-RPT-RP78718JD33C was 21.9dBm, which results in limit of 24.4dBm, 0.4dBm greater than the maximum 24dBm allowed.

  24dBm has therefore been selected as the limit.
- The gain of the proposed antenna is 3 dBi.

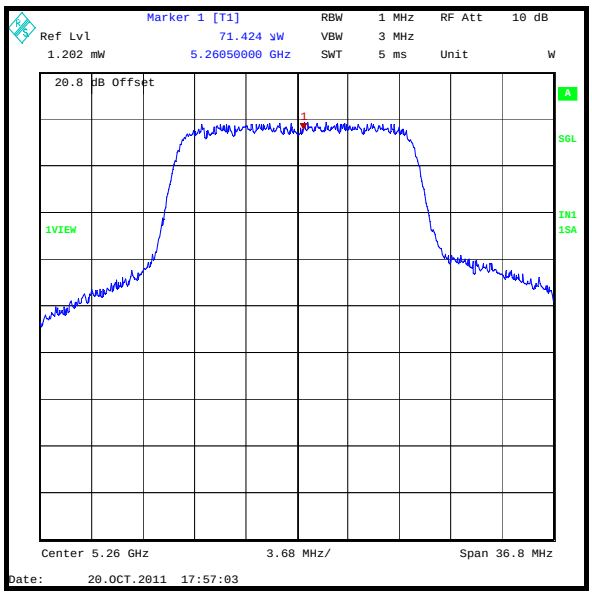
Transmitter Maximum Peak Output Power (continued)

Results - 802.11a 5.260 to 5.320 GHz

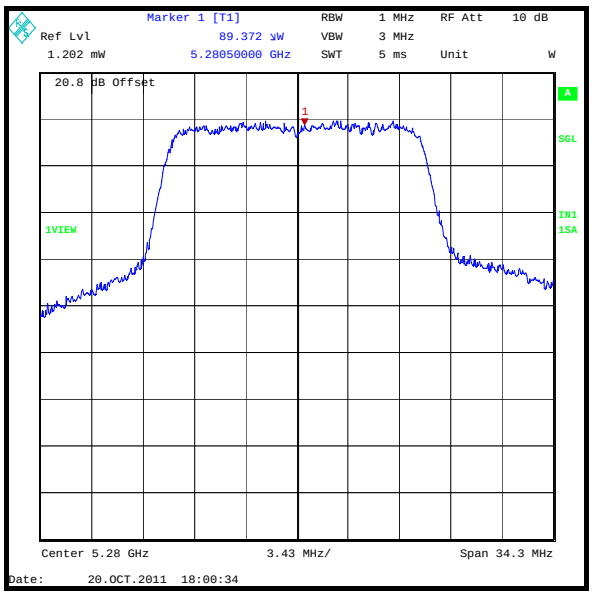
Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5260	BPSK	6	6.4	24	17.6	Complied
Middle	5280	BPSK	6	6.3	24	17.7	Complied
Top	5320	BPSK	6	6.9	24	17.1	Complied
Bottom	5260	BPSK	9	5.2	24	18.8	Complied
Middle	5280	BPSK	9	5.8	24	18.2	Complied
Top	5320	BPSK	9	6.8	24	17.2	Complied
Bottom	5260	QPSK	12	5.3	24	18.7	Complied
Middle	5280	QPSK	12	6.1	24	17.9	Complied
Top	5320	QPSK	12	6.8	24	17.2	Complied
Bottom	5260	QPSK	18	5.4	24	18.6	Complied
Middle	5280	QPSK	18	7.2	24	16.8	Complied
Top	5320	QPSK	18	7.7	24	16.3	Complied
Bottom	5260	16QAM	24	5.6	24	18.4	Complied
Middle	5280	16QAM	24	5.9	24	18.1	Complied
Top	5320	16QAM	24	6.8	24	17.2	Complied
Bottom	5260	16QAM	36	5.3	24	18.7	Complied
Middle	5280	16QAM	36	5.8	24	18.2	Complied
Top	5320	16QAM	36	6.8	24	17.2	Complied
Bottom	5260	64QAM	48	5.3	24	18.7	Complied
Middle	5280	64QAM	48	6.0	24	18.0	Complied
Top	5320	64QAM	48	7.1	24	16.9	Complied
Bottom	5260	64QAM	54	5.6	24	18.4	Complied
Middle	5280	64QAM	54	6.1	24	17.9	Complied
Top	5320	64QAM	54	7.1	24	16.9	Complied

Transmitter Maximum Peak Output Power (continued)

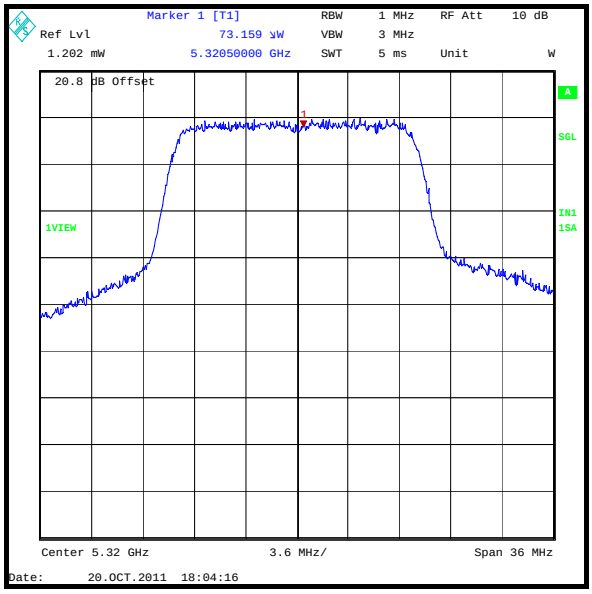
Results - 802.11a 5.260 to 5.320 GHz



Channel Power UNII 2 802.11a 6 Mbps Bottom Channel



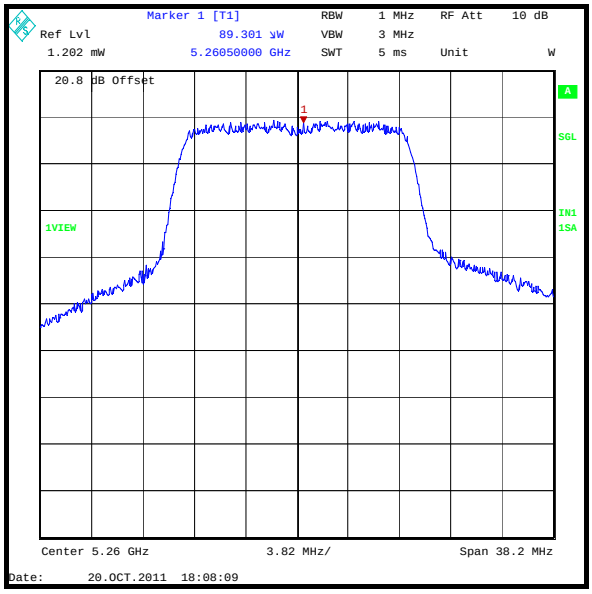
Channel Power UNII 2 802.11a 6 Mbps Middle Channel



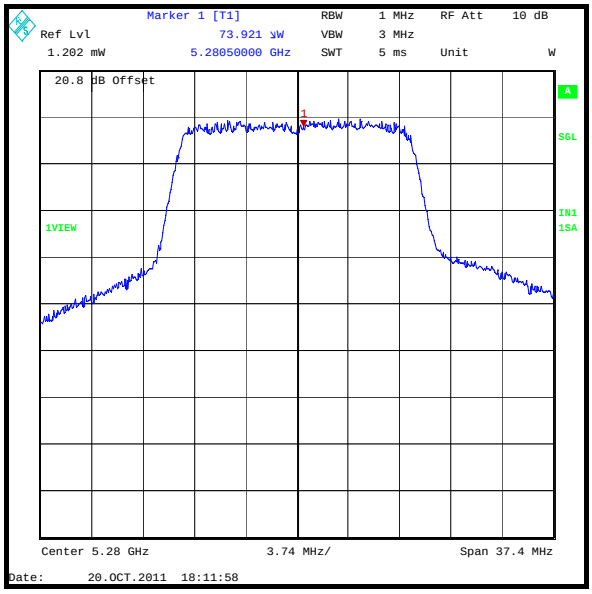
Channel Power UNII 2 802.11a 6 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

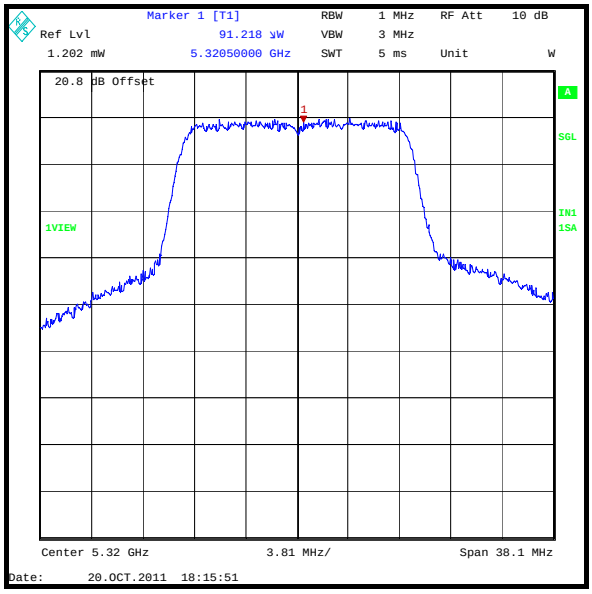
Results - 802.11a 5.260 to 5.320 GHz



Channel Power UNII 2 802.11a 9 Mbps Bottom Channel



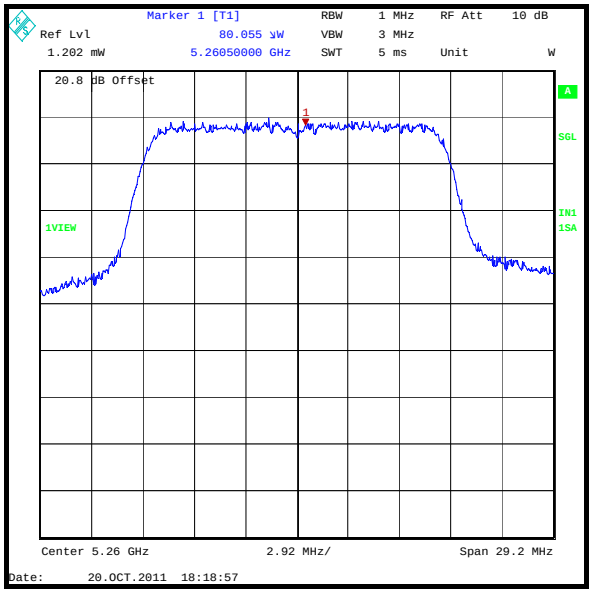
Channel Power UNII 2 802.11a 9 Mbps Middle Channel



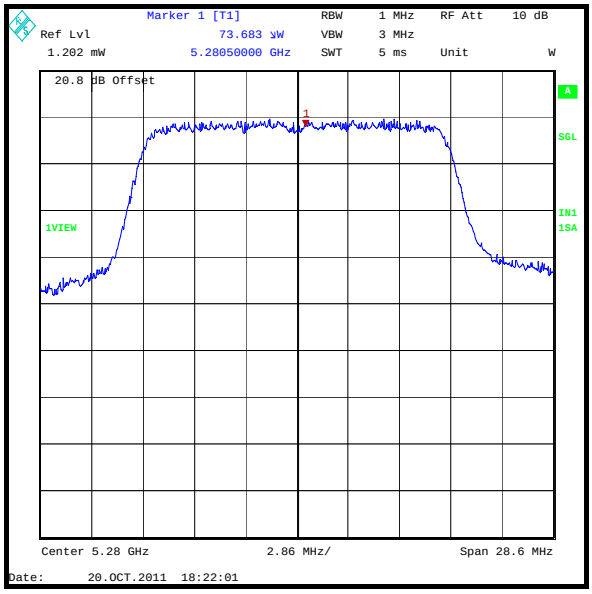
Channel Power UNII 2 802.11a 9 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

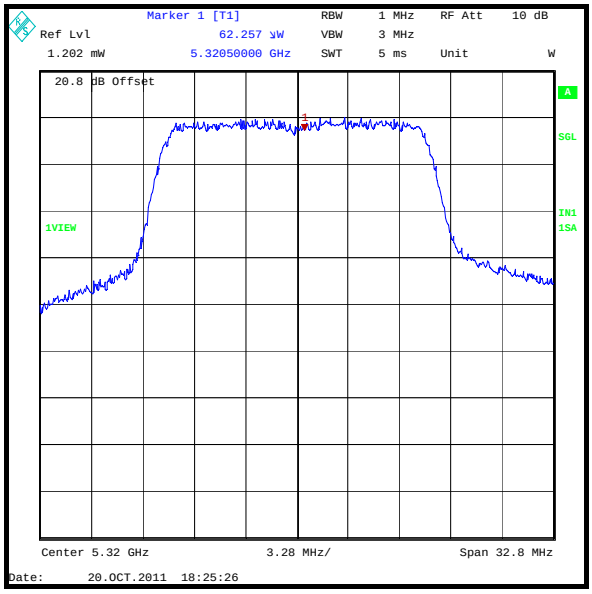
Results - 802.11a 5.260 to 5.320 GHz



Channel Power UNII 2 802.11a 12 Mbps Bottom Channel



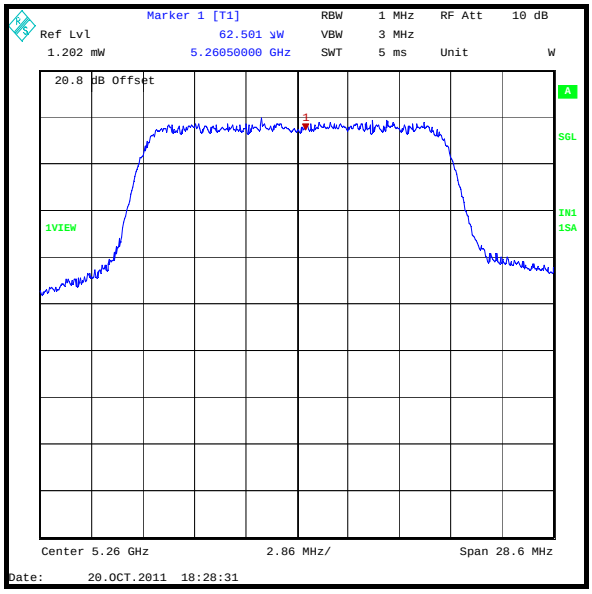
Channel Power UNII 2 802.11a 12 Mbps Middle Channel



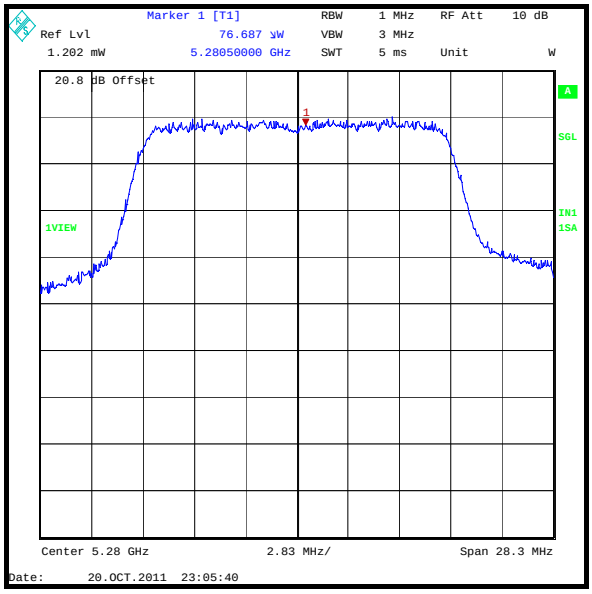
Channel Power UNII 2 802.11a 12 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

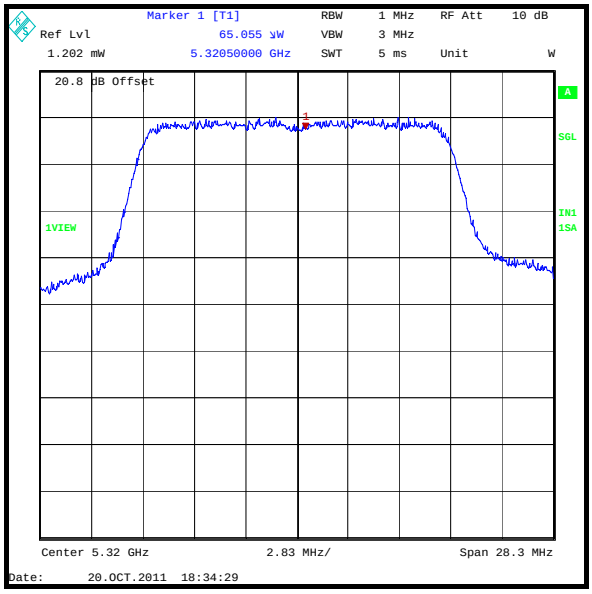
Results - 802.11a 5.260 to 5.320 GHz



Channel Power UNII 2 802.11a 18 Mbps Bottom Channel



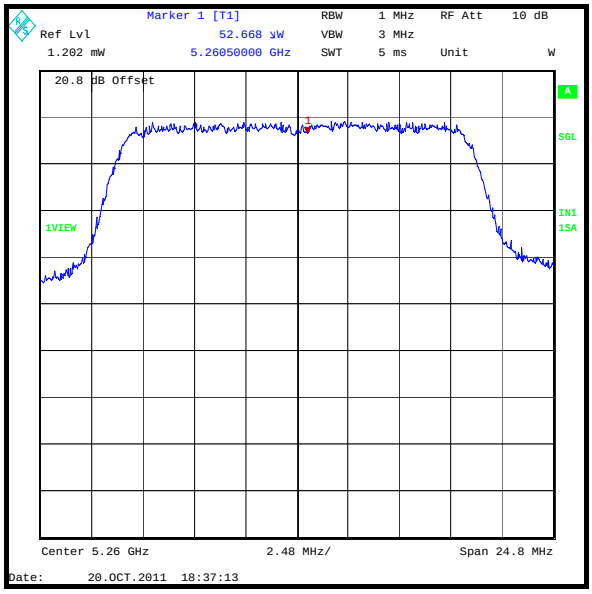
Channel Power UNII 2 802.11a 18 Mbps Middle Channel



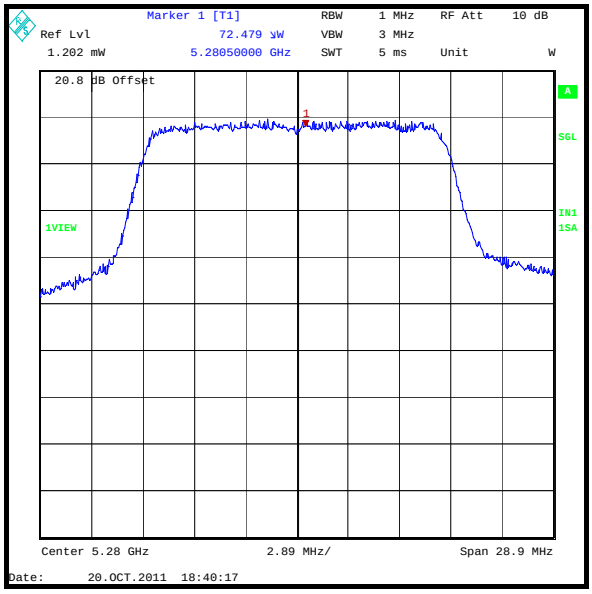
Channel Power UNII 2 802.11a 18 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

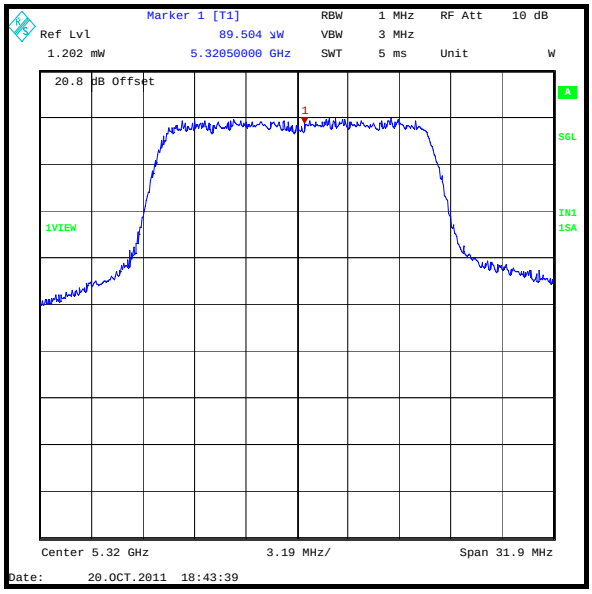
Results - 802.11a 5.260 to 5.320 GHz



Channel Power UNII 2 802.11a 24 Mbps Bottom Channel



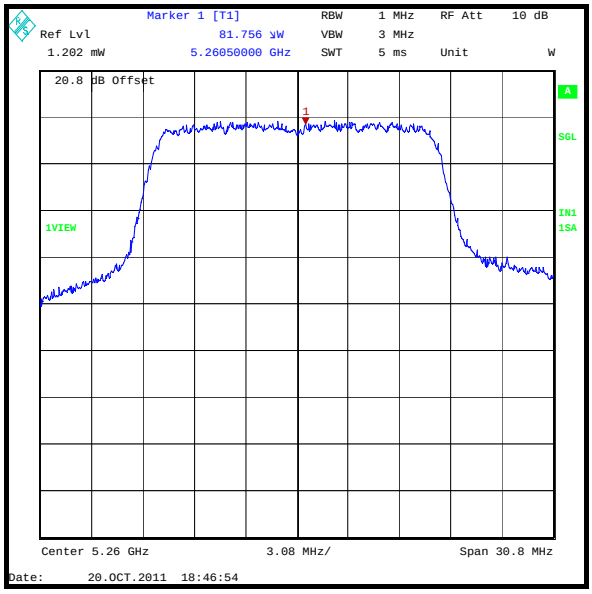
Channel Power UNII 2 802.11a 24 Mbps Middle Channel



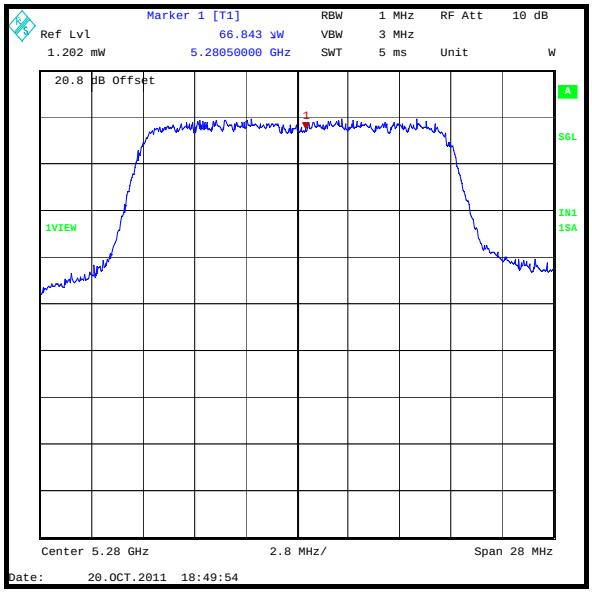
Channel Power UNII 2 802.11a 24 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

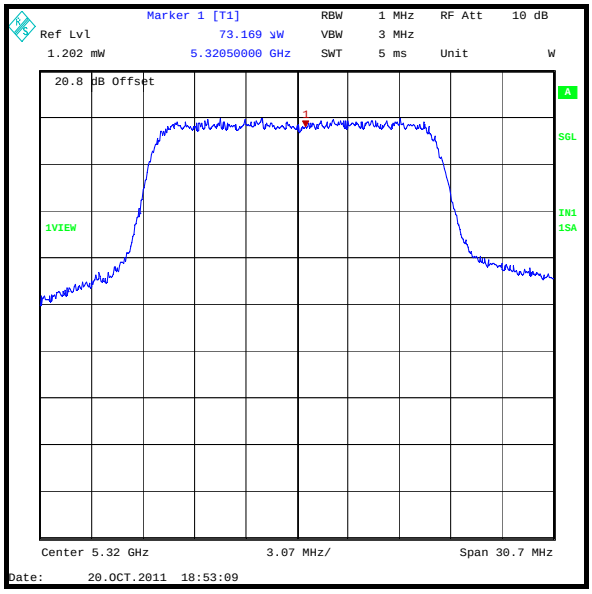
Results - 802.11a 5.260 to 5.320 GHz



Channel Power UNII 2 802.11a 36 Mbps Bottom Channel



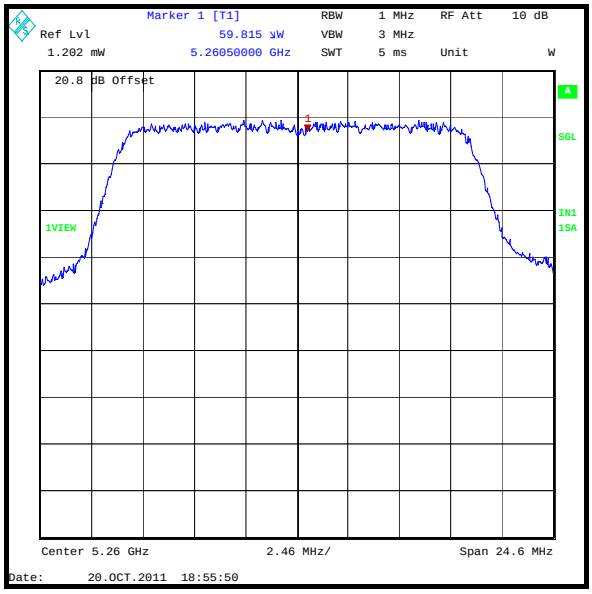
Channel Power UNII 2 802.11a 36 Mbps Middle Channel



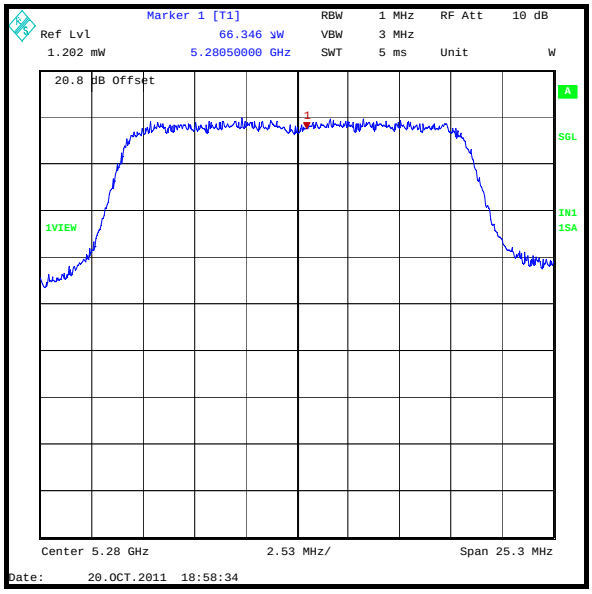
Channel Power UNII 2 802.11a 36 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

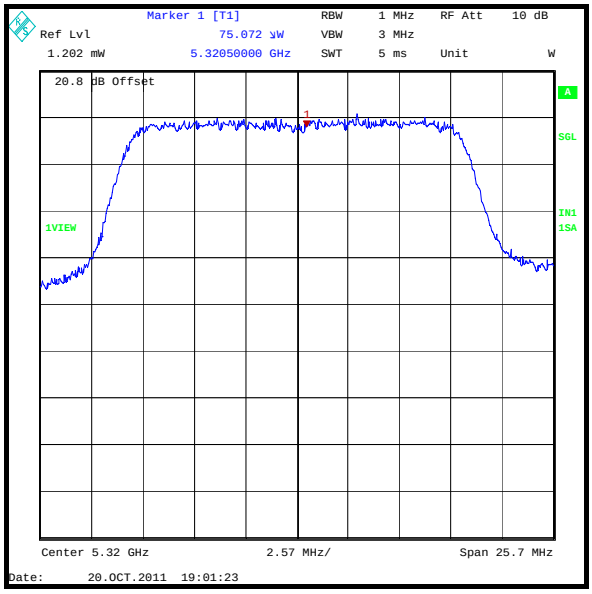
Results - 802.11a 5.260 to 5.320 GHz



Channel Power UNII 2 802.11a 48 Mbps Bottom Channel



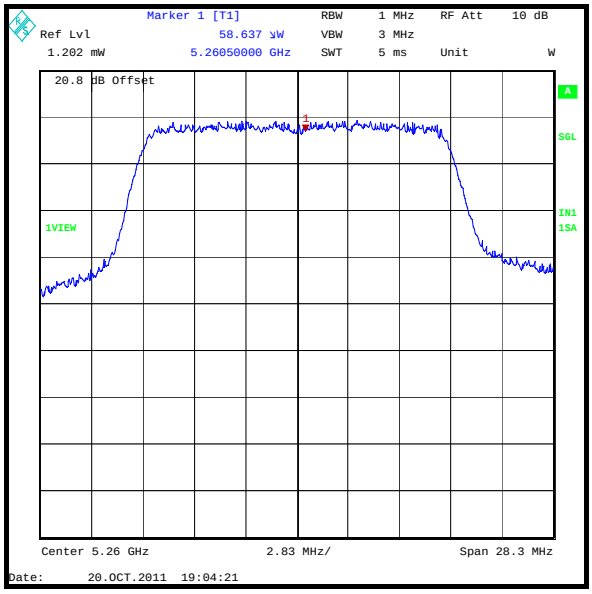
Channel Power UNII 2 802.11a 48 Mbps Middle Channel



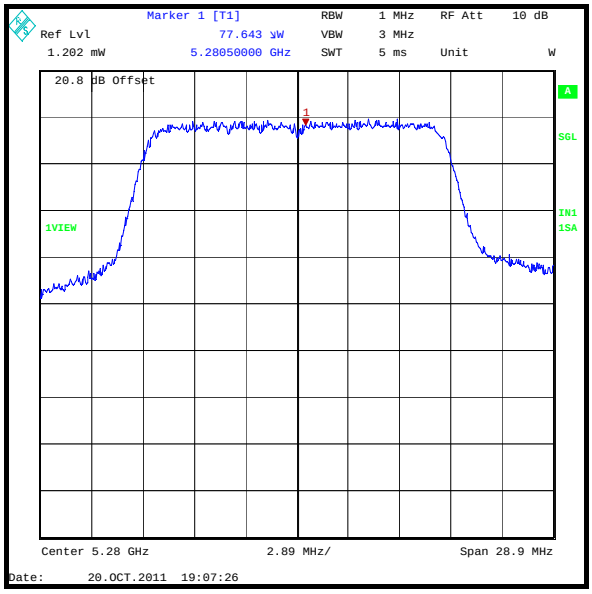
Channel Power UNII 2 802.11a 48 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

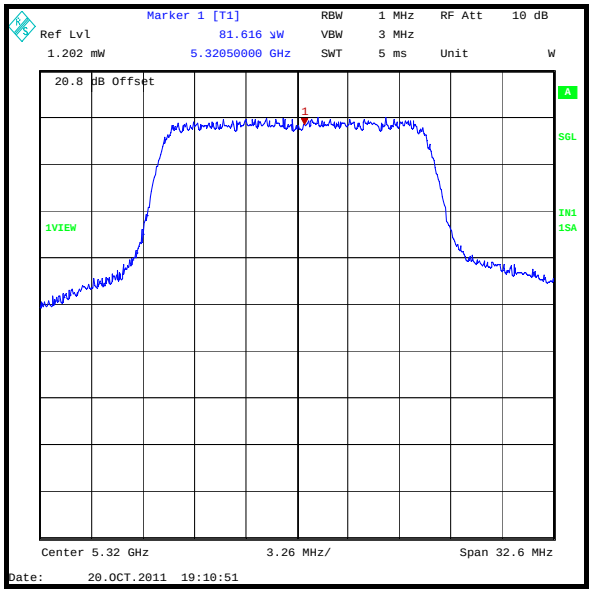
Results - 802.11a 5.260 to 5.320 GHz



Channel Power UNII 2 802.11a 54 Mbps Bottom Channel



Channel Power UNII 2 802.11a 54 Mbps Middle Channel



Channel Power UNII 2 802.11a 54 Mbps Top Channel

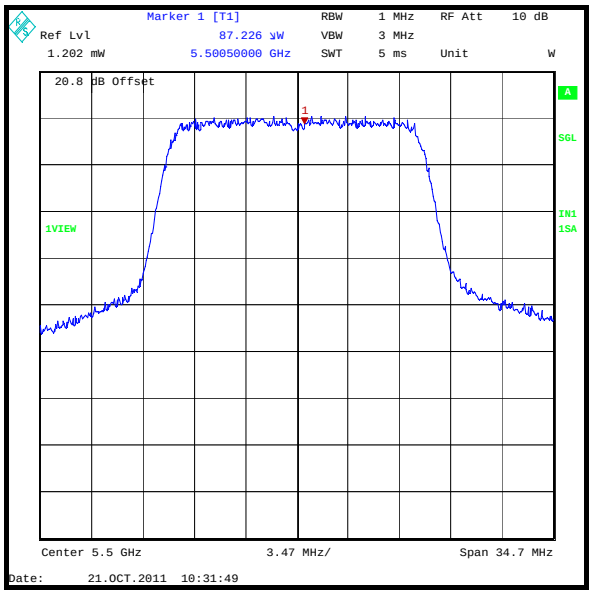
Transmitter Maximum Output Power (continued)

Results - 802.11a 5.500 to 5.700 GHz

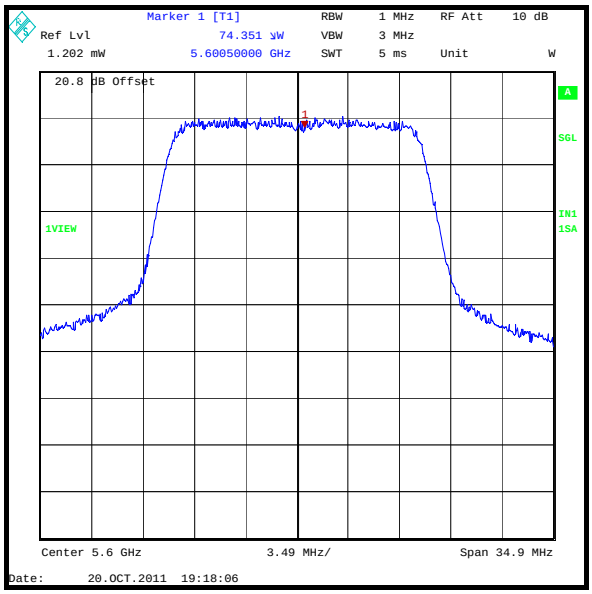
Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5500	BPSK	6	8.7	24	15.3	Complied
Middle	5600	BPSK	6	7.6	24	16.4	Complied
Top	5700	BPSK	6	3.9	24	20.1	Complied
Bottom	5500	BPSK	9	9.2	24	14.8	Complied
Middle	5600	BPSK	9	7.5	24	16.5	Complied
Top	5700	BPSK	9	4.1	24	19.9	Complied
Bottom	5500	QPSK	12	8.7	24	15.3	Complied
Middle	5600	QPSK	12	7.5	24	16.5	Complied
Top	5700	QPSK	12	3.8	24	20.2	Complied
Bottom	5500	QPSK	18	8.4	24	15.6	Complied
Middle	5600	QPSK	18	7.2	24	16.8	Complied
Top	5700	QPSK	18	3.5	24	20.5	Complied
Bottom	5500	16QAM	24	7.9	24	16.1	Complied
Middle	5600	16QAM	24	7.0	24	17.0	Complied
Top	5700	16QAM	24	3.2	24	20.8	Complied
Bottom	5500	16QAM	36	8.1	24	15.9	Complied
Middle	5600	16QAM	36	6.9	24	17.1	Complied
Top	5700	16QAM	36	3.1	24	20.9	Complied
Bottom	5500	64QAM	48	7.6	24	16.4	Complied
Middle	5600	64QAM	48	6.7	24	17.3	Complied
Top	5700	64QAM	48	3.9	24	20.1	Complied
Bottom	5500	64QAM	54	8.7	24	15.3	Complied
Middle	5600	64QAM	54	7.0	24	17.0	Complied
Top	5700	64QAM	54	3.5	24	20.5	Complied

Transmitter Maximum Output Power (continued)

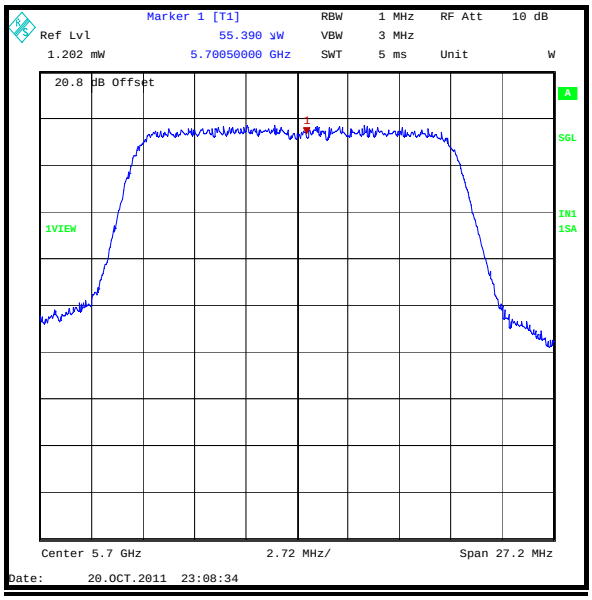
Results - 802.11a 5.500 to 5.700 GHz



Channel Power UNII 3 802.11a 6 Mbps Bottom Channel



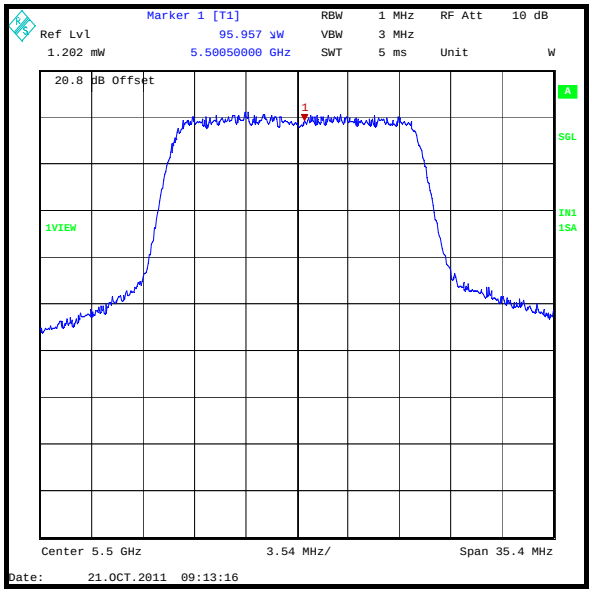
Channel Power UNII 3 802.11a 6 Mbps Middle Channel



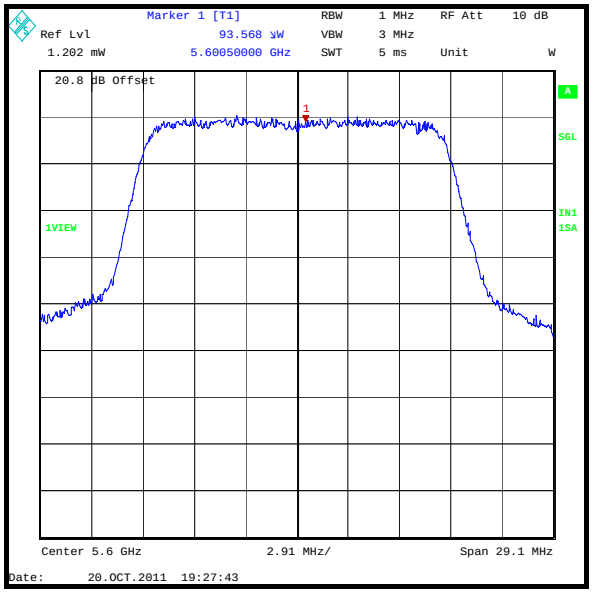
Channel Power UNII 3 802.11a 6 Mbps Top Channel

Transmitter Maximum Output Power (continued)

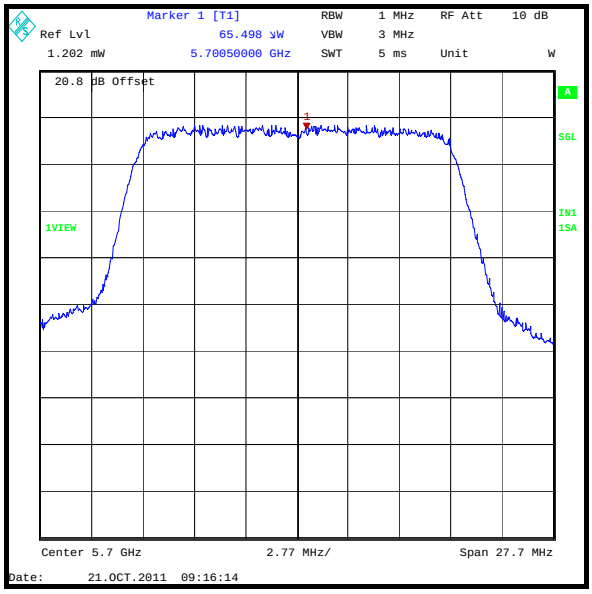
Results - 802.11a 5.500 to 5.700 GHz



Channel Power UNII 3 802.11a 9 Mbps Bottom Channel



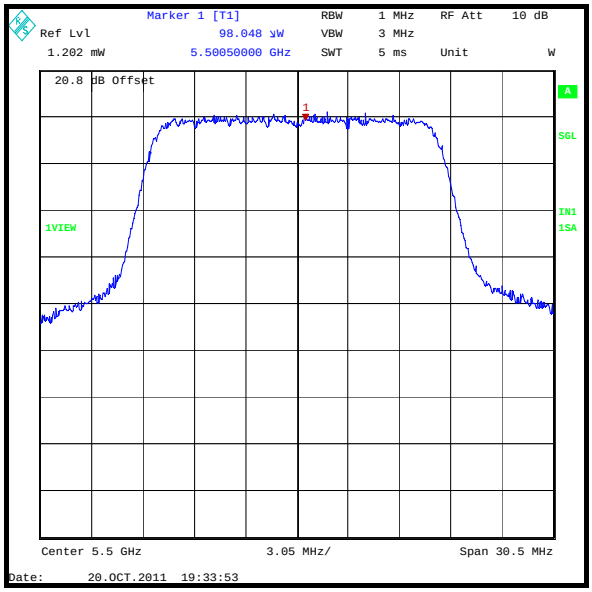
Channel Power UNII 3 802.11a 9 Mbps Middle Channel



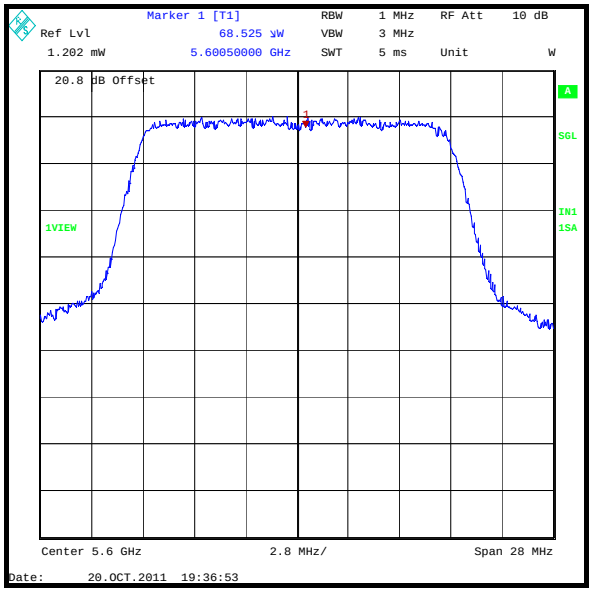
Channel Power UNII 3 802.11a 9 Mbps Top Channel

Transmitter Maximum Output Power (continued)

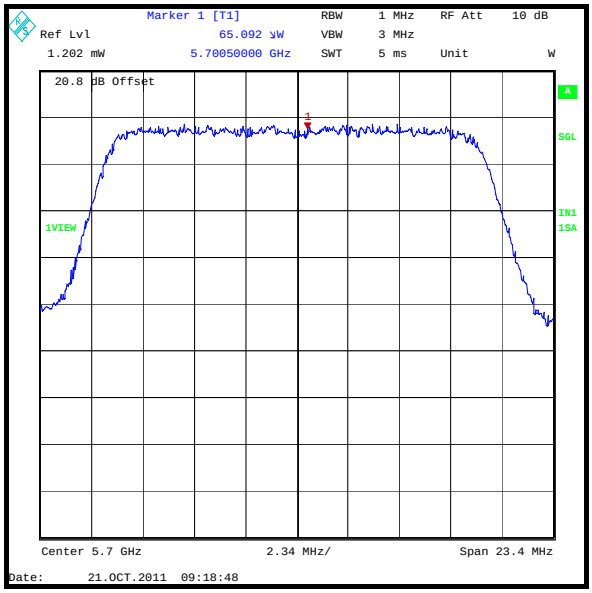
Results - 802.11a 5.500 to 5.700 GHz



Channel Power UNII 3 802.11a 12 Mbps Bottom Channel



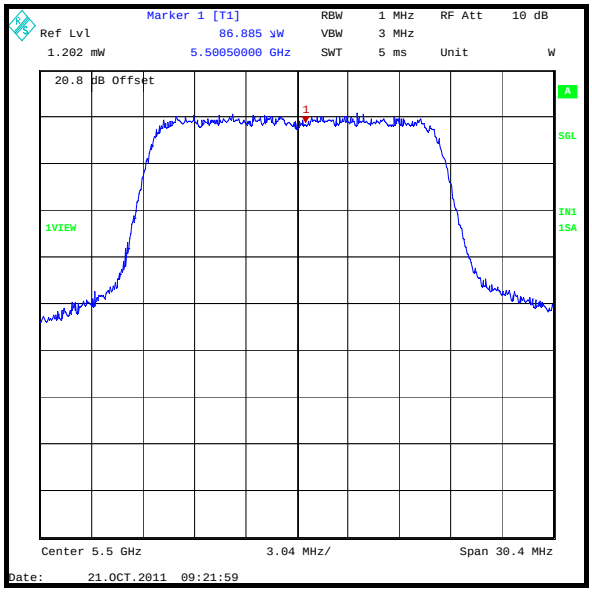
Channel Power UNII 3 802.11a 12 Mbps Middle Channel



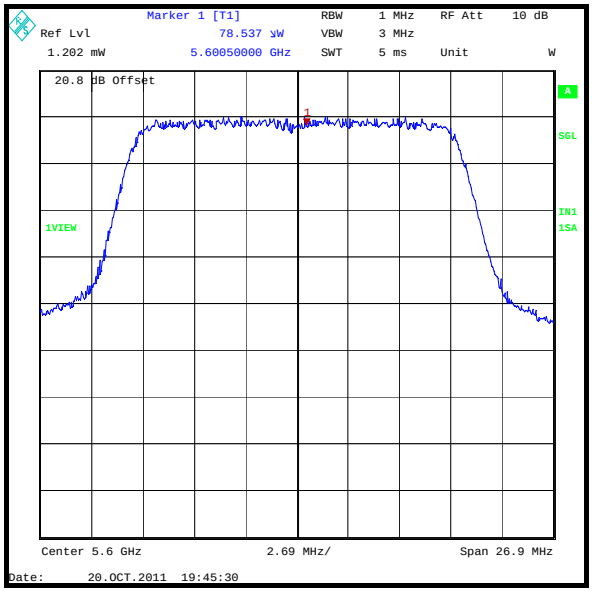
Channel Power UNII 3 802.11a 12 Mbps Top Channel

Transmitter Maximum Output Power (continued)

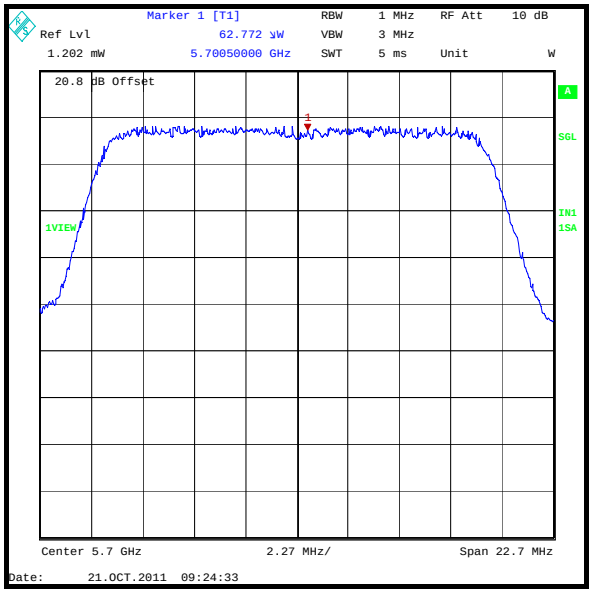
Results - 802.11a 5.500 to 5.700 GHz



Channel Power UNII 3 802.11a 18 Mbps Bottom Channel



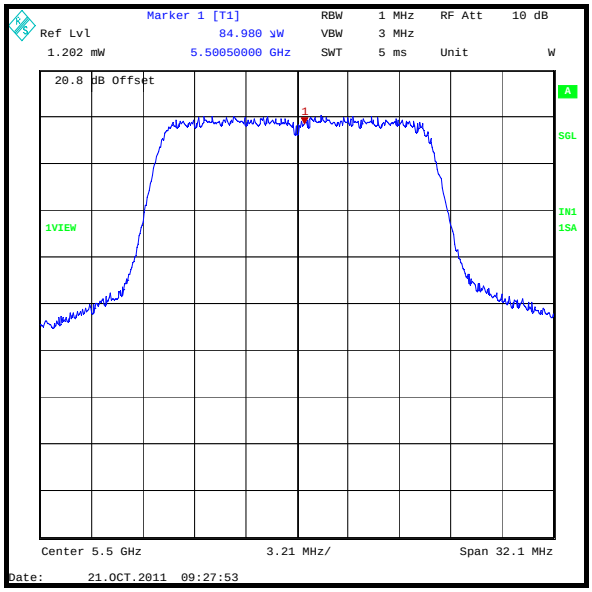
Channel Power UNII 3 802.11a 18 Mbps Middle Channel



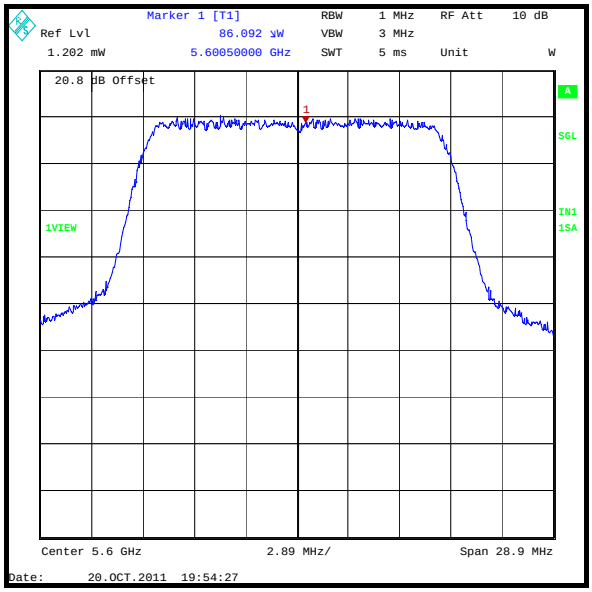
Channel Power UNII 3 802.11a 18 Mbps Top Channel

Transmitter Maximum Output Power (continued)

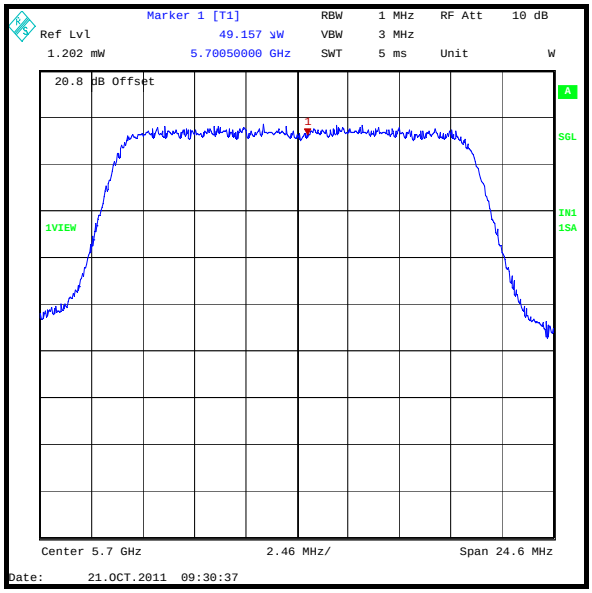
Results - 802.11a 5.500 to 5.700 GHz



Channel Power UNII 3 802.11a 24 Mbps Bottom Channel



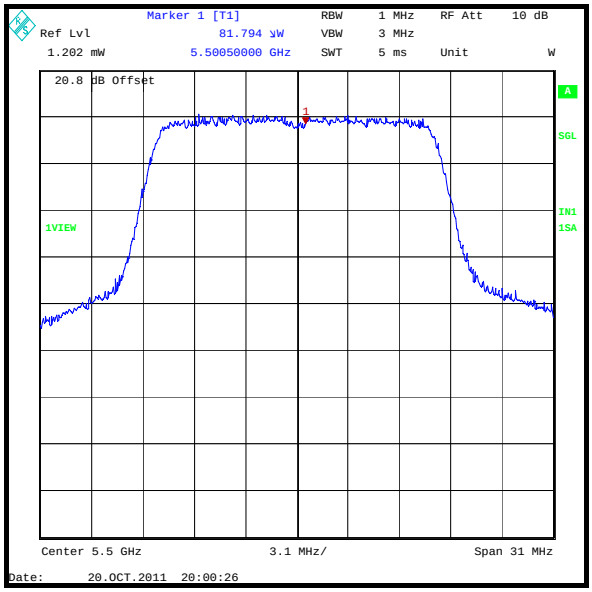
Channel Power UNII 3 802.11a 24 Mbps Middle Channel



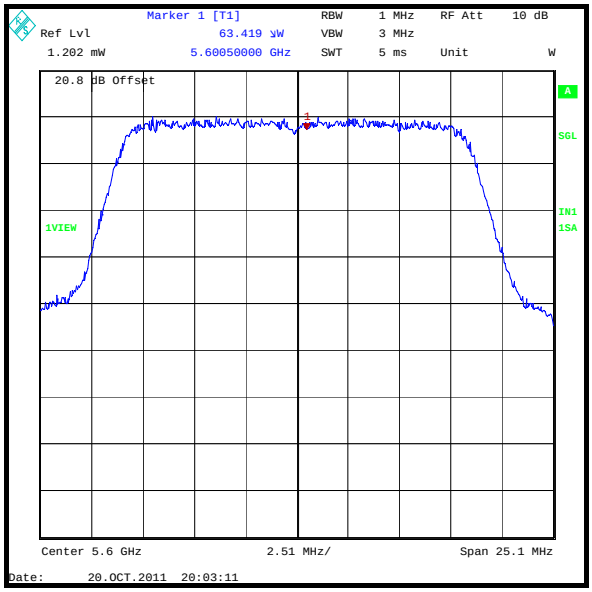
Channel Power UNII 3 802.11a 24 Mbps Top Channel

Transmitter Maximum Output Power (continued)

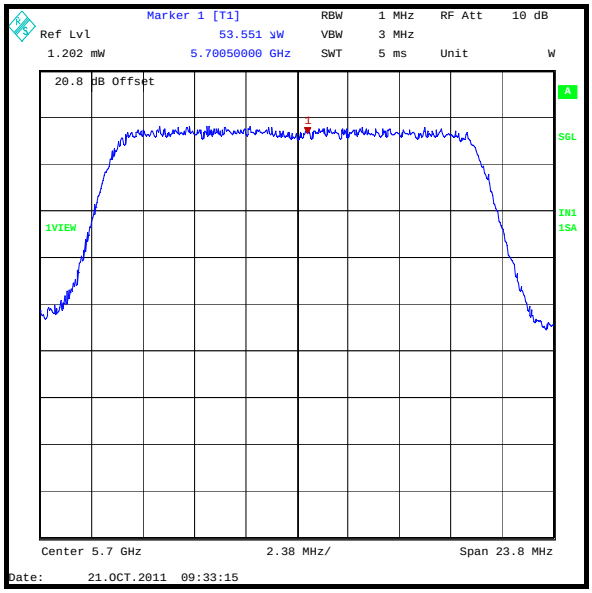
Results - 802.11a 5.500 to 5.700 GHz



Channel Power UNII 3 802.11a 36 Mbps Bottom Channel



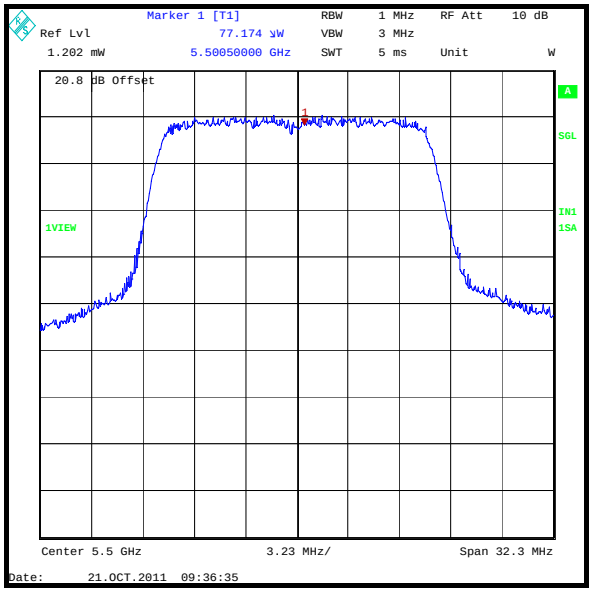
Channel Power UNII 3 802.11a 36 Mbps Middle Channel



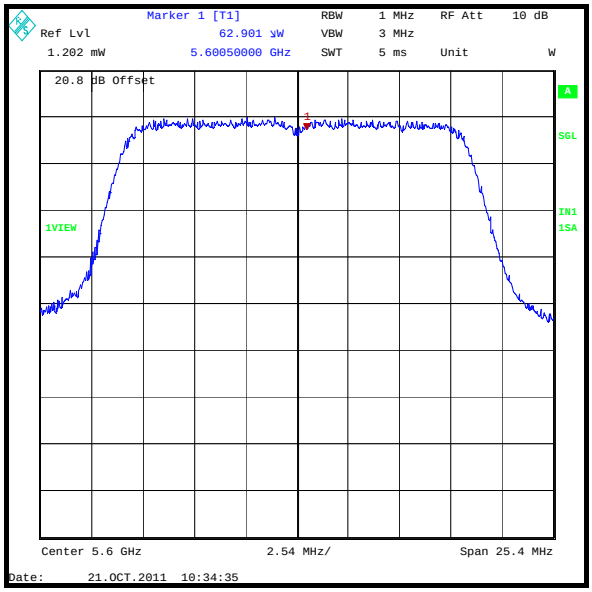
Channel Power UNII 3 802.11a 36 Mbps Top Channel

Transmitter Maximum Output Power (continued)

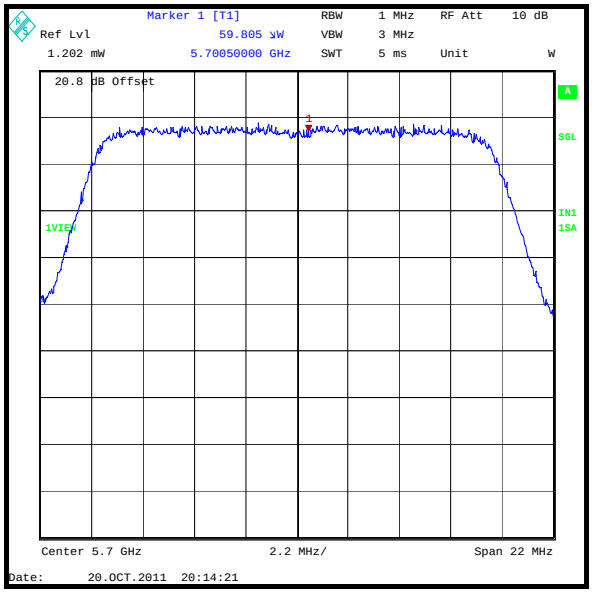
Results - 802.11a 5.500 to 5.700 GHz



Channel Power UNII 3 802.11a 48 Mbps Bottom Channel



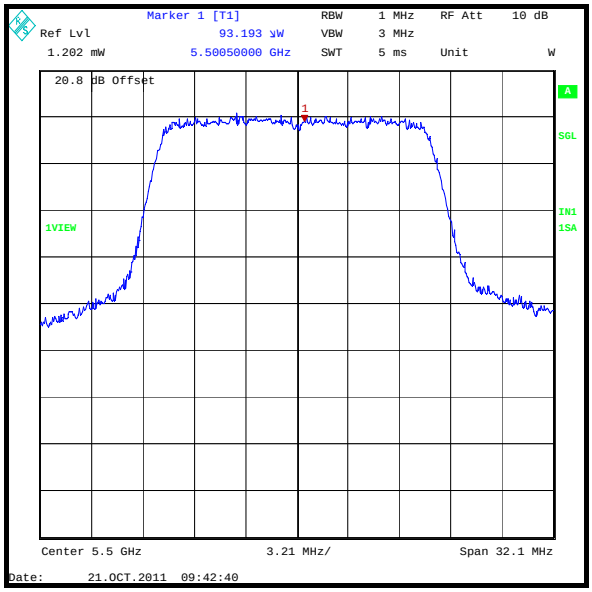
Channel Power UNII 3 802.11a 48 Mbps Middle Channel



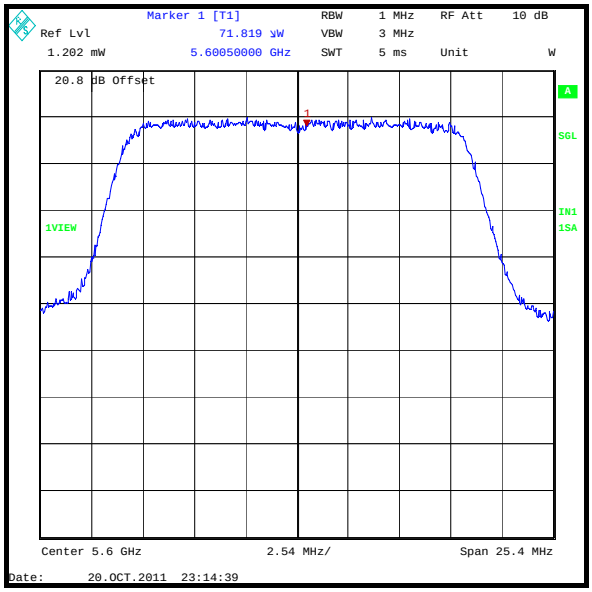
Channel Power UNII 3 802.11a 48 Mbps Top Channel

Transmitter Maximum Output Power (continued)

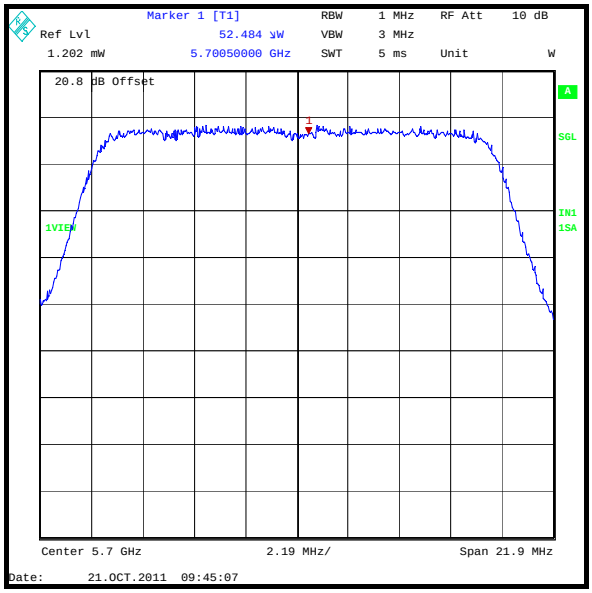
Results - 802.11a 5.500 to 5.700 GHz



Channel Power UNII 3 802.11a 54 Mbps Bottom Channel



Channel Power UNII 3 802.11a 54 Mbps Middle Channel



Channel Power UNII 3 802.11a 54 Mbps Top Channel

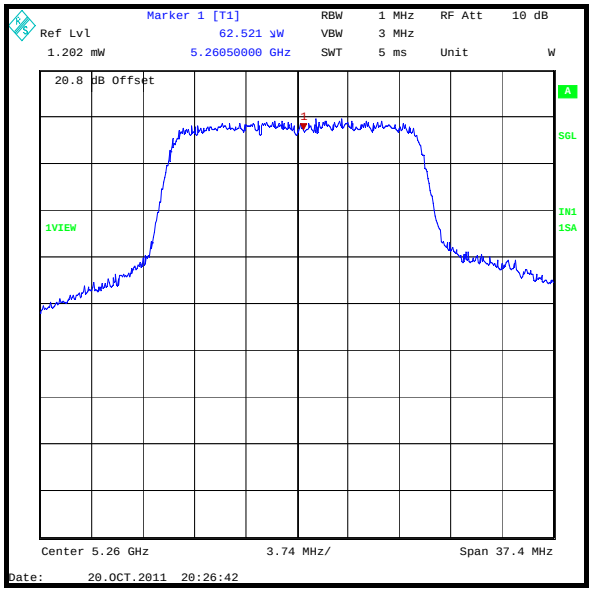
Transmitter Maximum Peak Output Power (continued)

Results - 802.11n 5.260 to 5.320 GHz

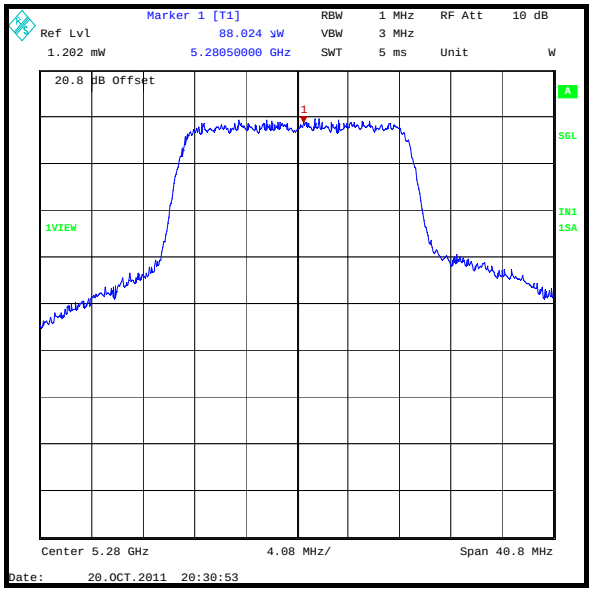
Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5260	BPSK	6.5	7.2	24	16.8	Complied
Middle	5280	BPSK	6.5	6.8	24	17.2	Complied
Top	5320	BPSK	6.5	7.5	24	16.5	Complied
Bottom	5260	QPSK	13	5.9	24	18.1	Complied
Middle	5280	QPSK	13	6.5	24	17.5	Complied
Top	5320	QPSK	13	7.3	24	16.7	Complied
Bottom	5260	QPSK	19.5	5.8	24	18.2	Complied
Middle	5280	QPSK	19.5	6.5	24	17.5	Complied
Top	5320	QPSK	19.5	7.3	24	16.7	Complied
Bottom	5260	16QAM	26	5.8	24	18.2	Complied
Middle	5280	16QAM	26	6.2	24	17.8	Complied
Top	5320	16QAM	26	8.0	24	16.0	Complied
Bottom	5260	16QAM	39	5.8	24	18.2	Complied
Middle	5280	16QAM	39	6.2	24	17.8	Complied
Top	5320	16QAM	39	7.1	24	16.9	Complied
Bottom	5260	64QAM	52	5.7	24	18.3	Complied
Middle	5280	64QAM	52	6.3	24	17.7	Complied
Top	5320	64QAM	52	7.4	24	16.6	Complied
Bottom	5260	64QAM	58.5	5.6	24	18.4	Complied
Middle	5280	64QAM	58.5	6.2	24	17.8	Complied
Top	5320	64QAM	58.5	7.1	24	16.9	Complied
Bottom	5260	64QAM	65	7.5	24	16.5	Complied
Middle	5280	64QAM	65	6.6	24	17.4	Complied
Top	5320	64QAM	65	7.5	24	16.5	Complied

Transmitter Maximum Peak Output Power (continued)

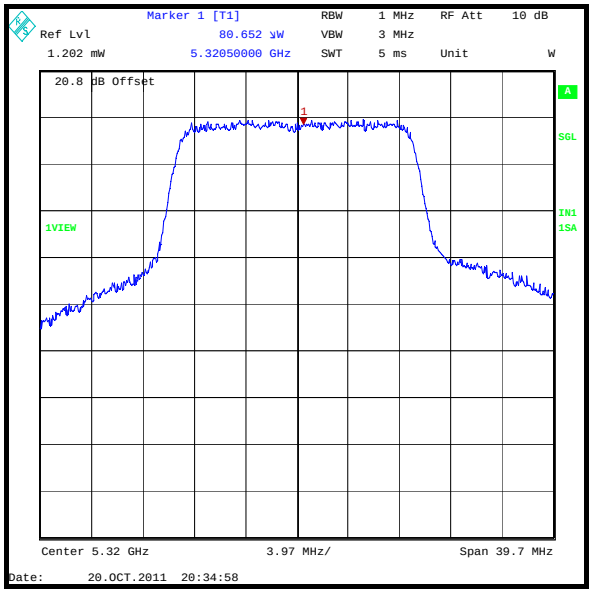
Results - 802.11n 5.260 to 5.320 GHz



Channel Power UNII 2 802.11n 6.5 Mbps Bottom Channel



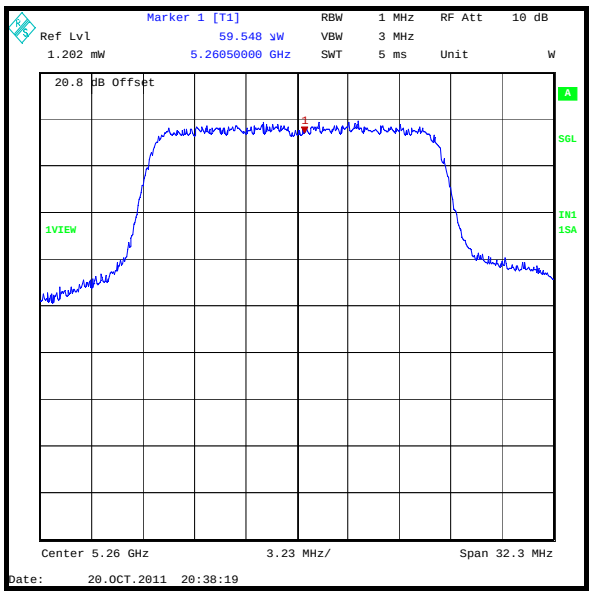
Channel Power UNII 2 802.11n 6.5 Mbps Middle Channel



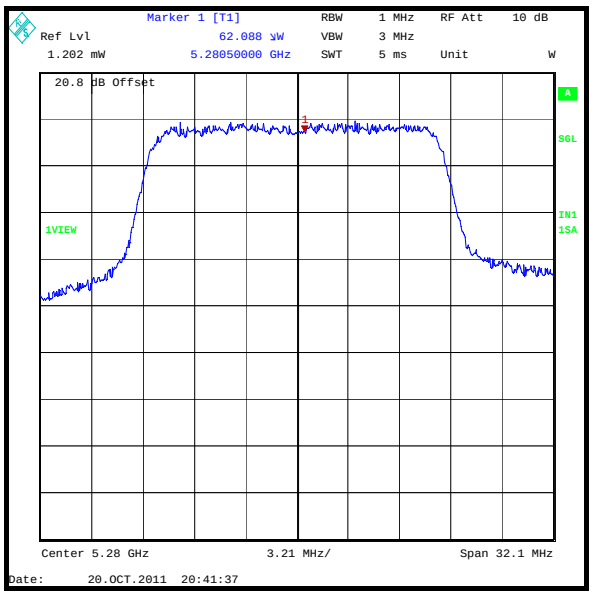
Channel Power UNII 2 802.11n 6.5 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

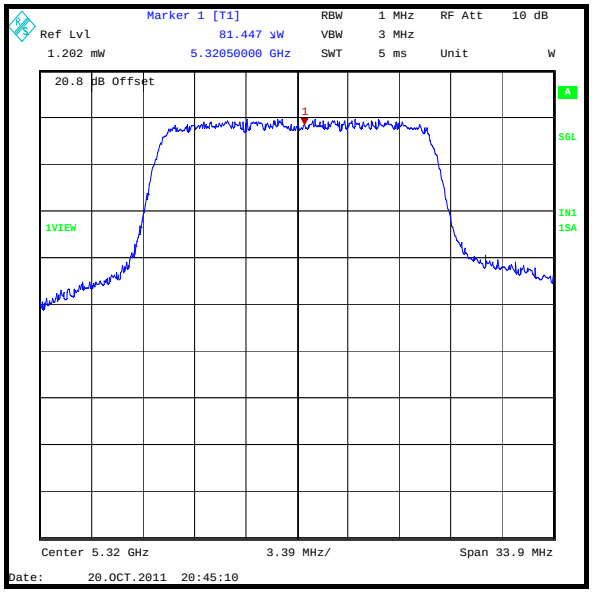
Results - 802.11n 5.260 to 5.320 GHz



Channel Power UNII 2 802.11n 13 Mbps Bottom Channel



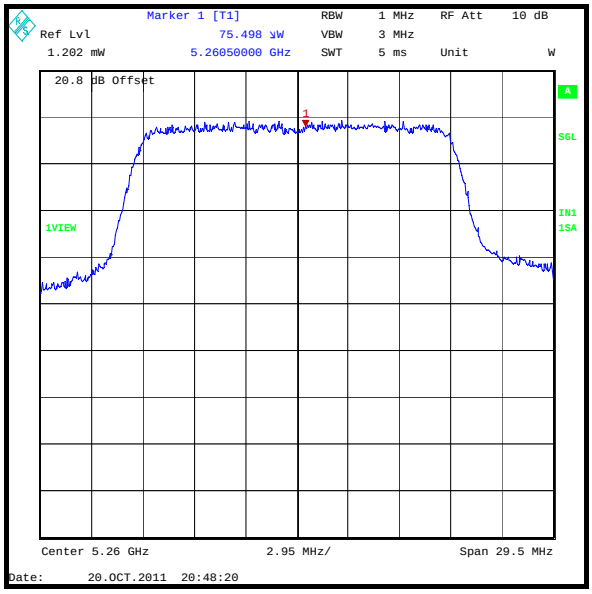
Channel Power UNII 2 802.11n 13 Mbps Middle Channel



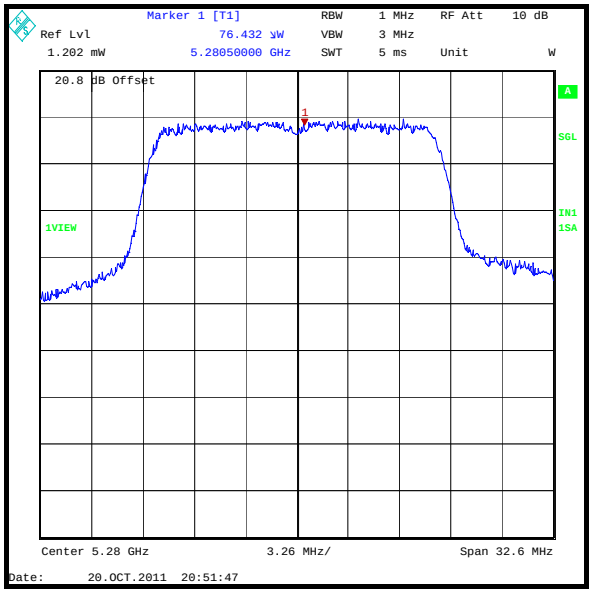
Channel Power UNII 2 802.11n 13 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

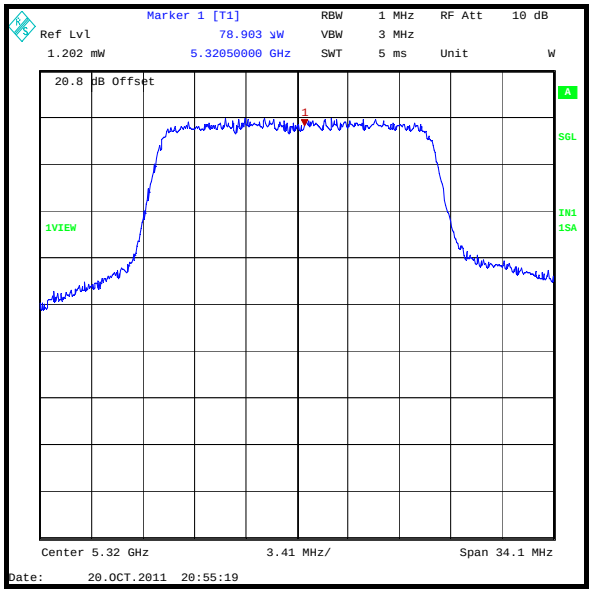
Results - 802.11n 5.260 to 5.320 GHz



Channel Power UNII 2 802.11n 19.5 Mbps Bottom Channel



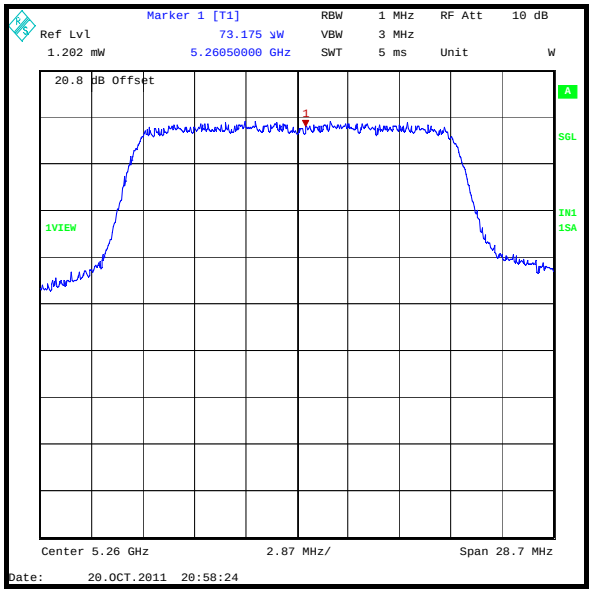
Channel Power UNII 2 802.11n 19.5 Mbps Middle Channel



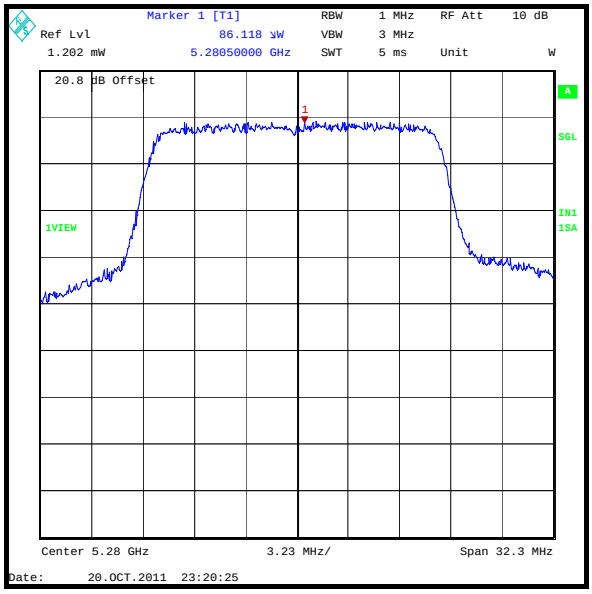
Channel Power UNII 2 802.11n 19.5 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

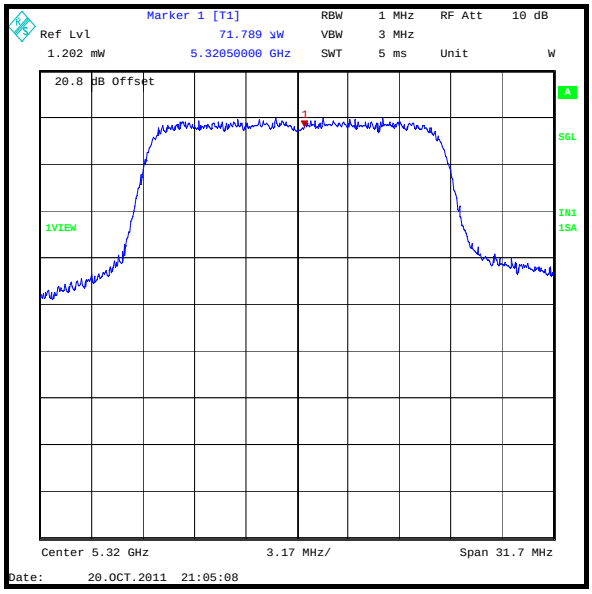
Results - 802.11n 5.260 to 5.320 GHz



Channel Power UNII 2 802.11n 26 Mbps Bottom Channel



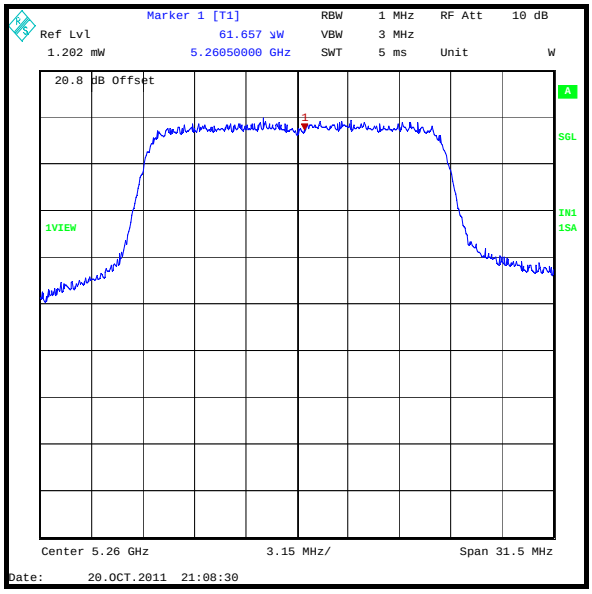
Channel Power UNII 2 802.11n 26 Mbps Middle Channel



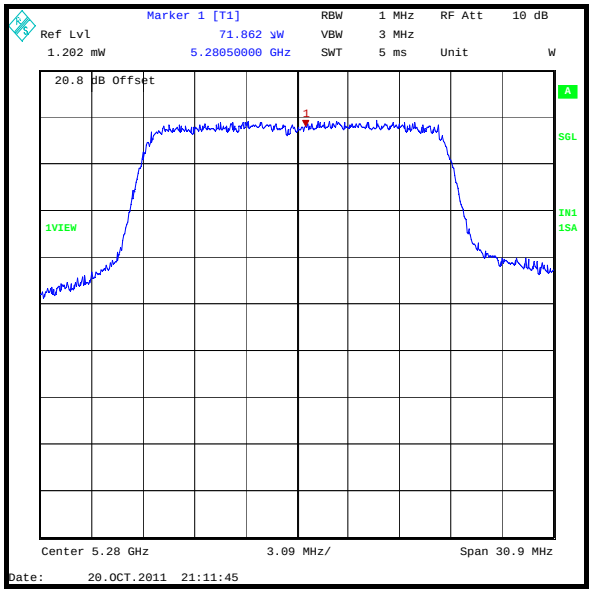
Channel Power UNII 2 802.11n 26 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

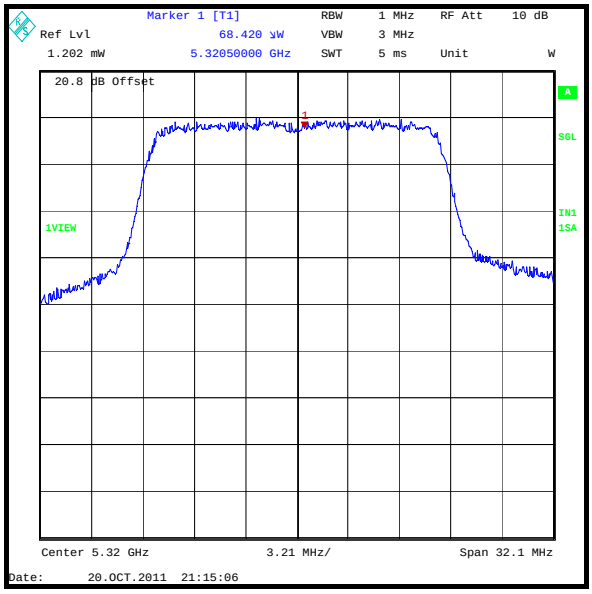
Results - 802.11n 5.260 to 5.320 GHz



Channel Power UNII 2 802.11n 39 Mbps Bottom Channel



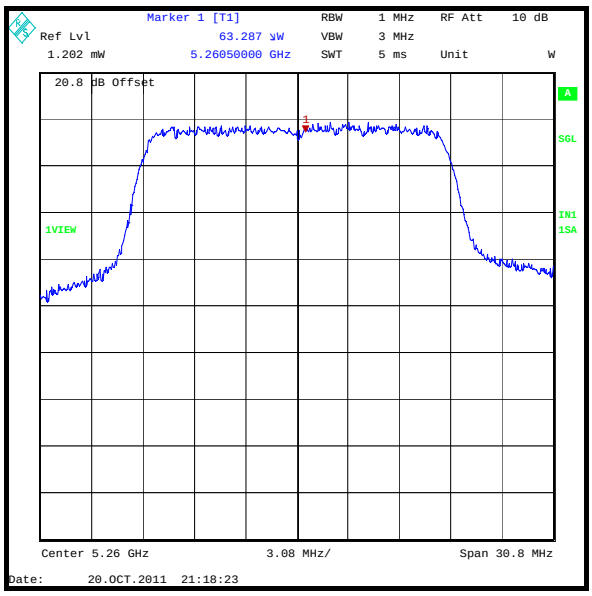
Channel Power UNII 2 802.11n 39 Mbps Middle Channel



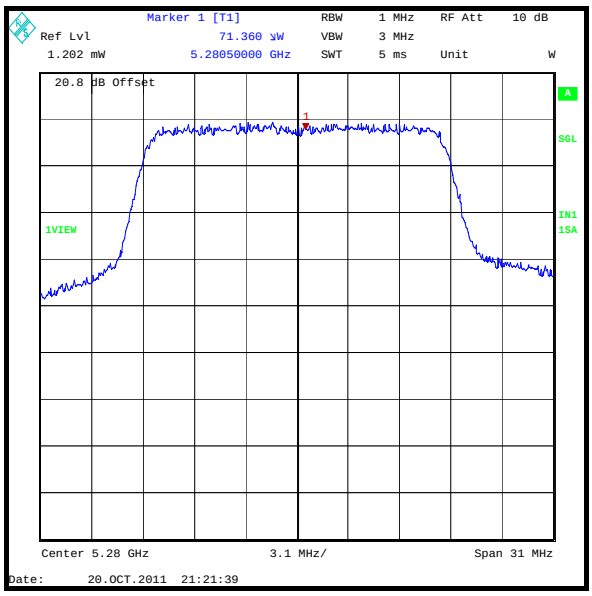
Channel Power UNII 2 802.11n 39 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

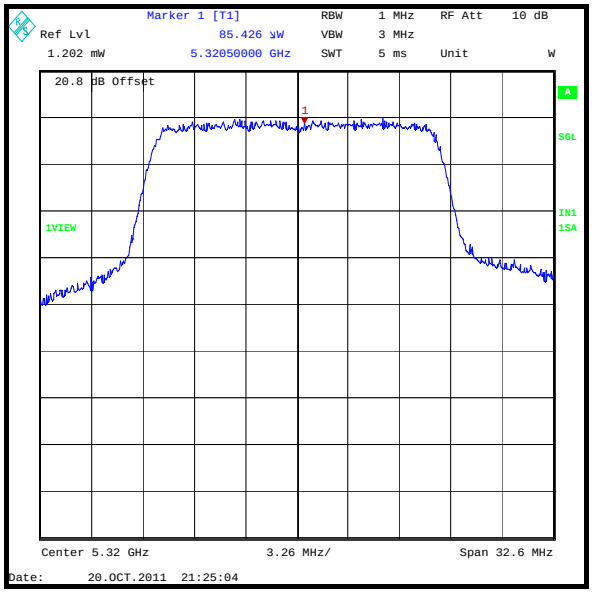
Results - 802.11n 5.260 to 5.320 GHz



Channel Power UNII 2 802.11n 52 Mbps Bottom Channel



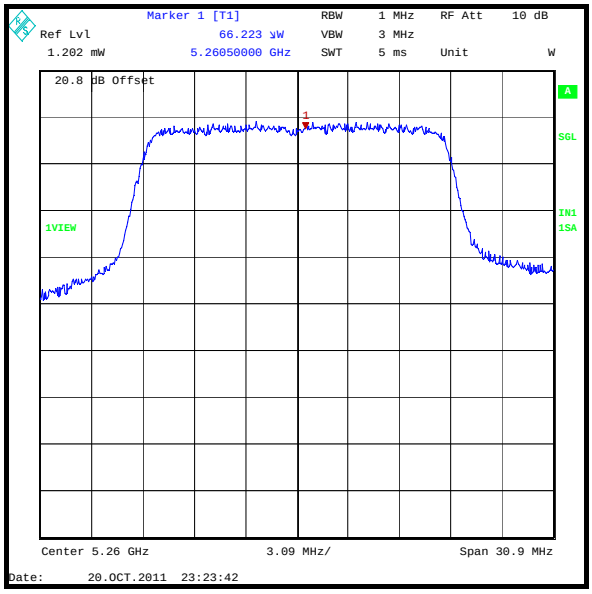
Channel Power UNII 2 802.11n 52 Mbps Middle Channel



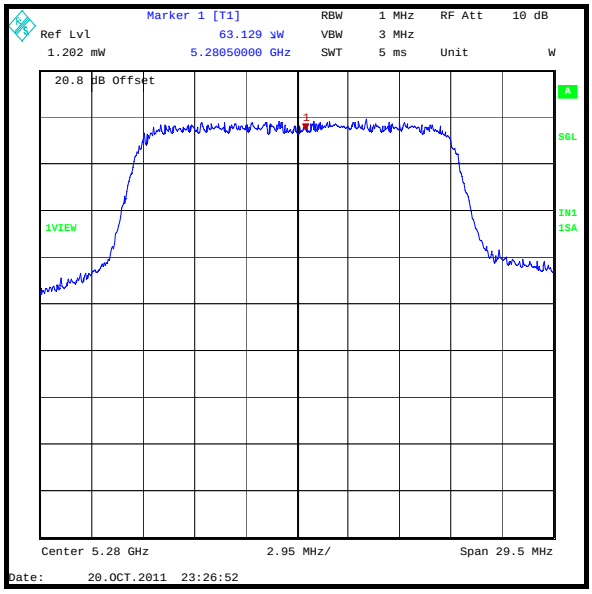
Channel Power UNII 2 802.11n 52 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

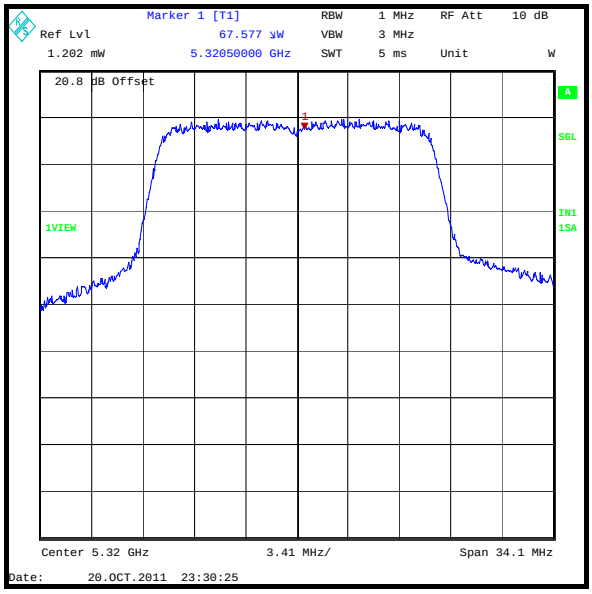
Results - 802.11n 5.260 to 5.320 GHz



Channel Power UNII 2 802.11n 58.5 Mbps Bottom Channel



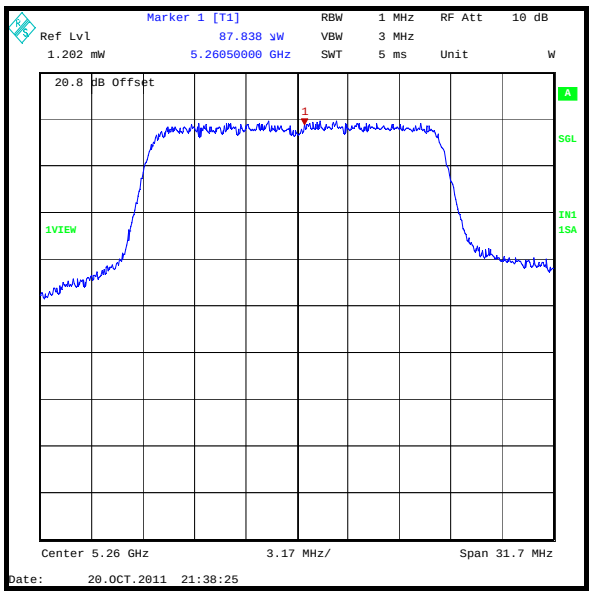
Channel Power UNII 2 802.11n 58.5 Mbps Middle Channel



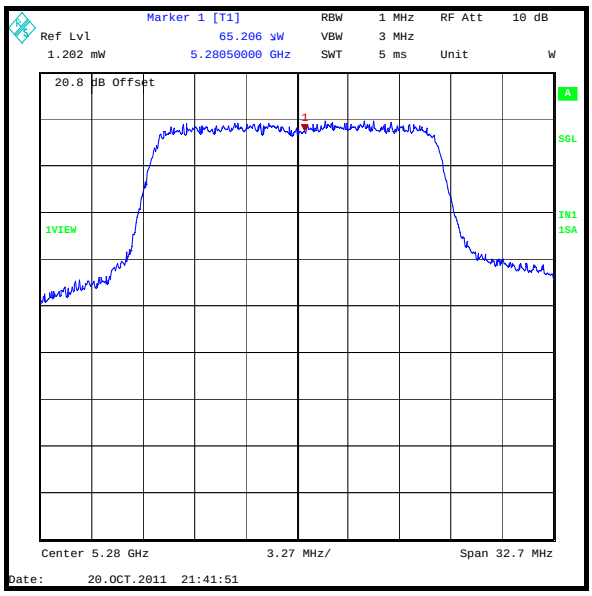
Channel Power UNII 2 802.11n 58.5 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

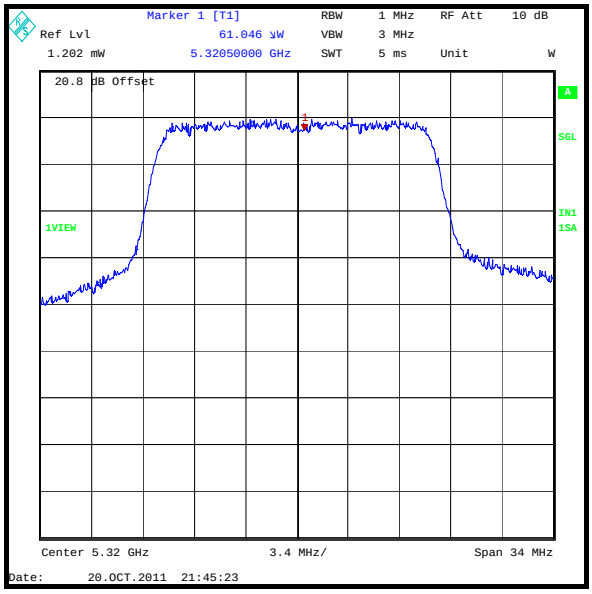
Results - 802.11n 5.260 to 5.320 GHz



Channel Power UNII 2 802.11n 65 Mbps Bottom Channel



Channel Power UNII 2 802.11n 65 Mbps Middle Channel



Channel Power UNII 2 802.11n 65 Mbps Top Channel

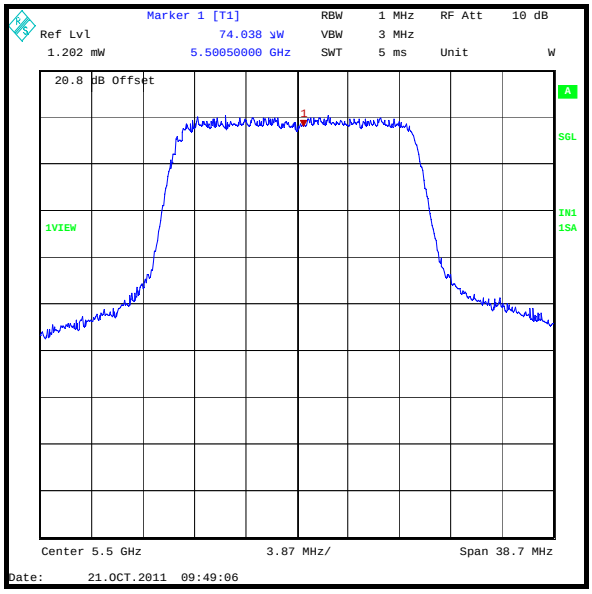
Transmitter Maximum Output Power (continued)

Results - 802.11n 5.500 to 5.700 GHz

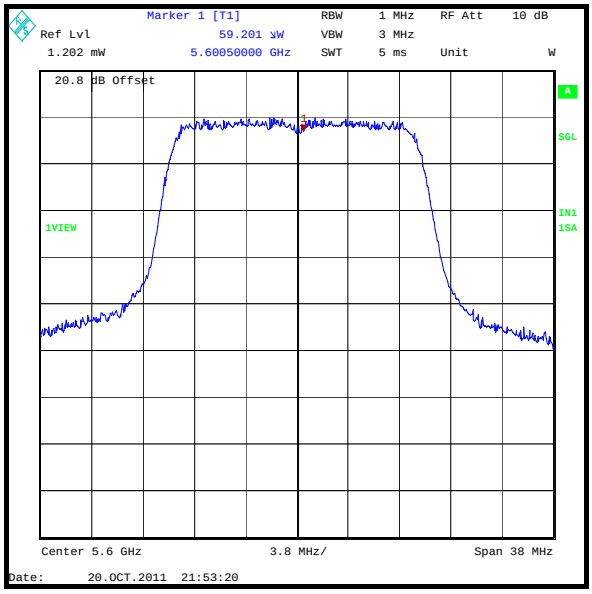
Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Power (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	5500	BPSK	6.5	8.3	24	15.7	Complied
Middle	5600	BPSK	6.5	7.5	24	16.5	Complied
Top	5700	BPSK	6.5	5.6	24	18.4	Complied
Bottom	5500	QPSK	13	9.7	24	14.3	Complied
Middle	5600	QPSK	13	7.7	24	16.3	Complied
Top	5700	QPSK	13	4.4	24	19.6	Complied
Bottom	5500	QPSK	19.5	8.5	24	15.5	Complied
Middle	5600	QPSK	19.5	7.8	24	16.2	Complied
Top	5700	QPSK	19.5	4.3	24	19.7	Complied
Bottom	5500	16QAM	26	8.3	24	15.7	Complied
Middle	5600	16QAM	26	7.2	24	16.8	Complied
Top	5700	16QAM	26	3.8	24	20.2	Complied
Bottom	5500	16QAM	39	8.2	24	15.8	Complied
Middle	5600	16QAM	39	7.3	24	16.7	Complied
Top	5700	16QAM	39	3.5	24	20.5	Complied
Bottom	5500	64QAM	52	8.1	24	15.9	Complied
Middle	5600	64QAM	52	7.5	24	16.5	Complied
Top	5700	64QAM	52	4.6	24	19.4	Complied
Bottom	5500	64QAM	58.5	8.4	24	15.6	Complied
Middle	5600	64QAM	58.5	7.1	24	16.9	Complied
Top	5700	64QAM	58.5	4.5	24	19.5	Complied
Bottom	5500	64QAM	65	8.1	24	15.9	Complied
Middle	5600	64QAM	65	7.8	24	16.2	Complied
Top	5700	64QAM	65	3.5	24	20.5	Complied

Transmitter Maximum Peak Output Power (continued)

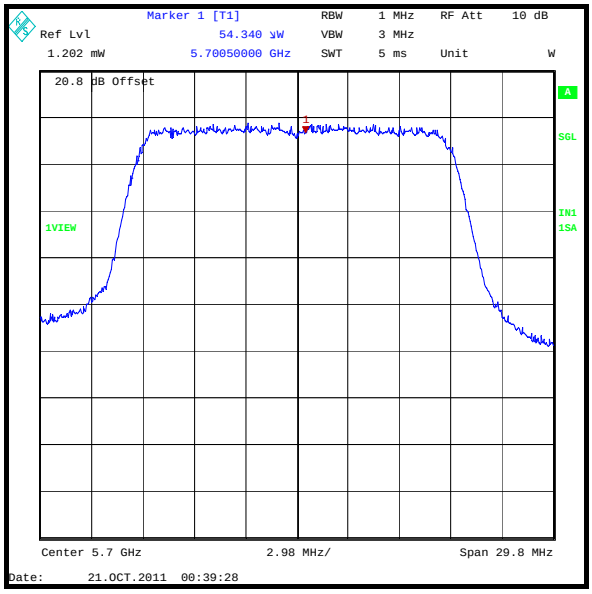
Results - 802.11n 5.500 to 5.700 GHz



Channel Power UNII 3 802.11n 6.5 Mbps Bottom Channel



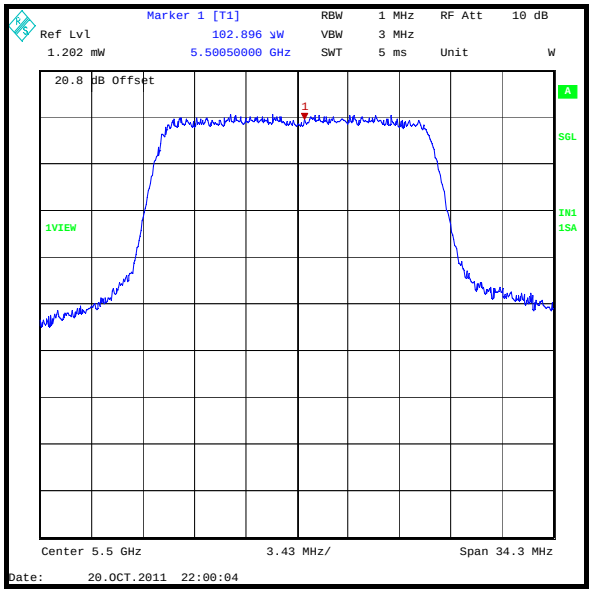
Channel Power UNII 3 802.11n 6.5 Mbps Middle Channel



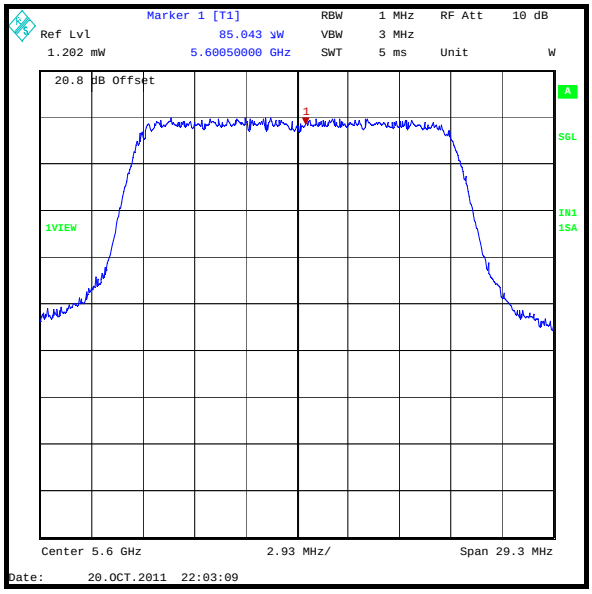
Channel Power UNII 3 802.11n 6.5 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

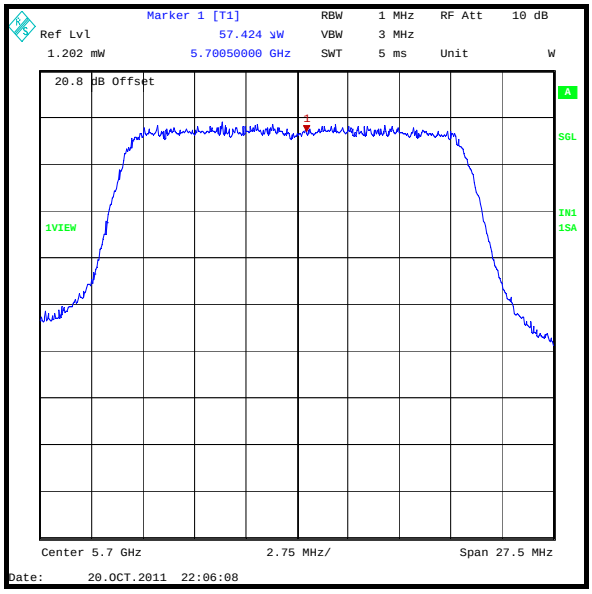
Results - 802.11n 5.500 to 5.700 GHz



Channel Power UNII 3 802.11n 13 Mbps Bottom Channel



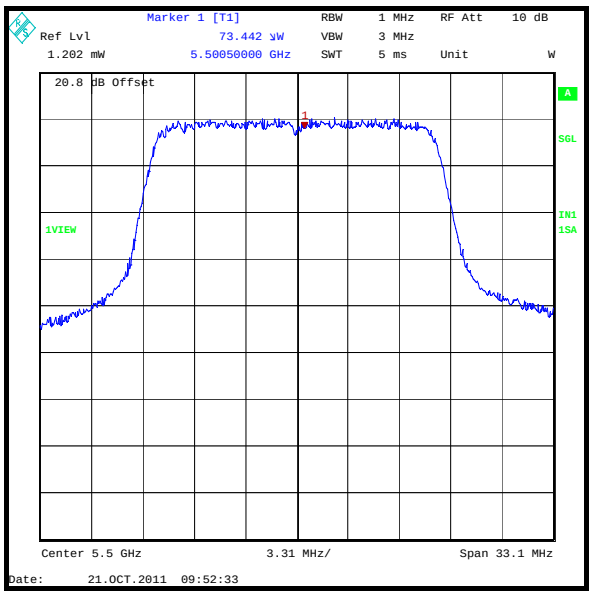
Channel Power UNII 3 802.11n 13 Mbps Middle Channel



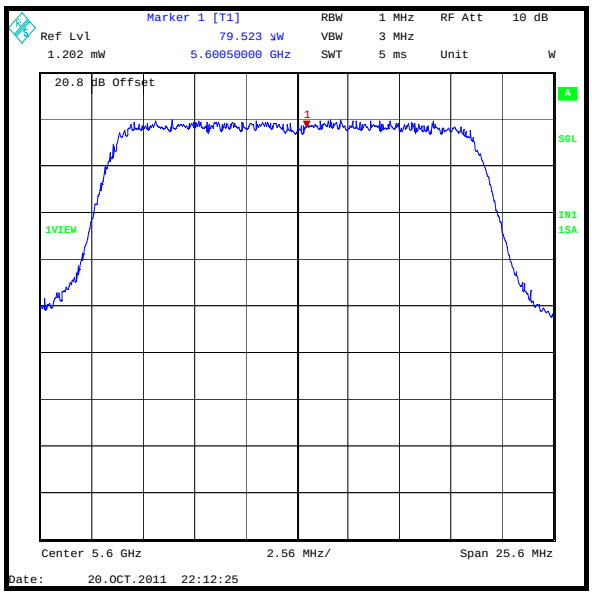
Channel Power UNII 3 802.11n 13 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

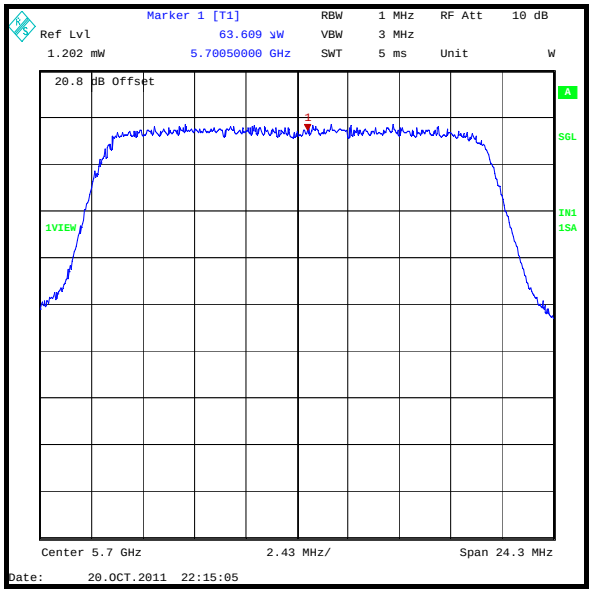
Results - 802.11n 5.500 to 5.700 GHz



Channel Power UNII 3 802.11n 19.5 Mbps Bottom Channel



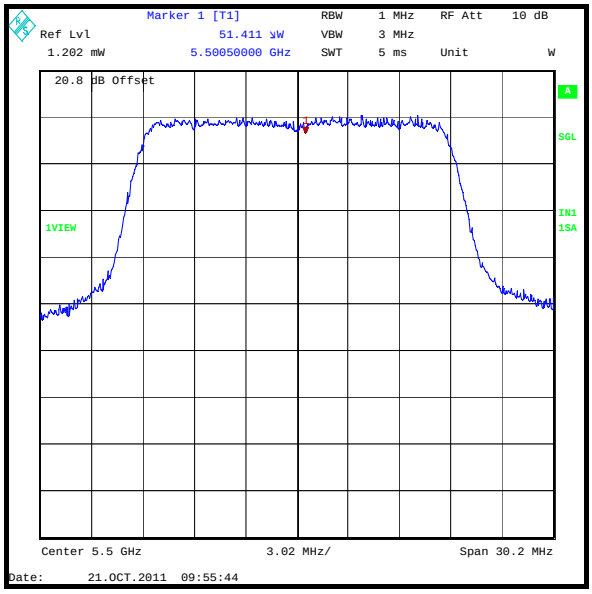
Channel Power UNII 3 802.11n 19.5 Mbps Middle Channel



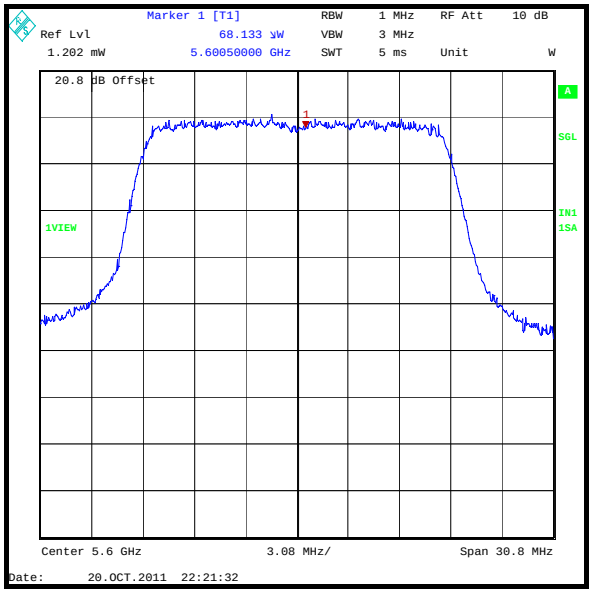
Channel Power UNII 3 802.11n 19.5 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

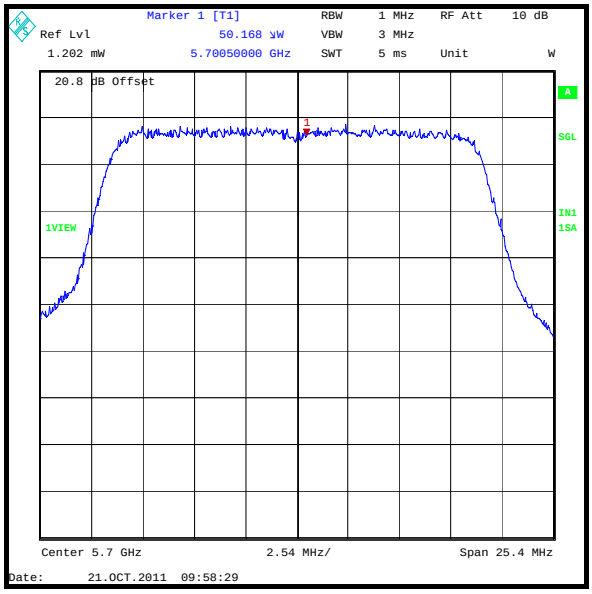
Results - 802.11n 5.500 to 5.700 GHz



Channel Power UNII 3 802.11n 26 Mbps Bottom Channel



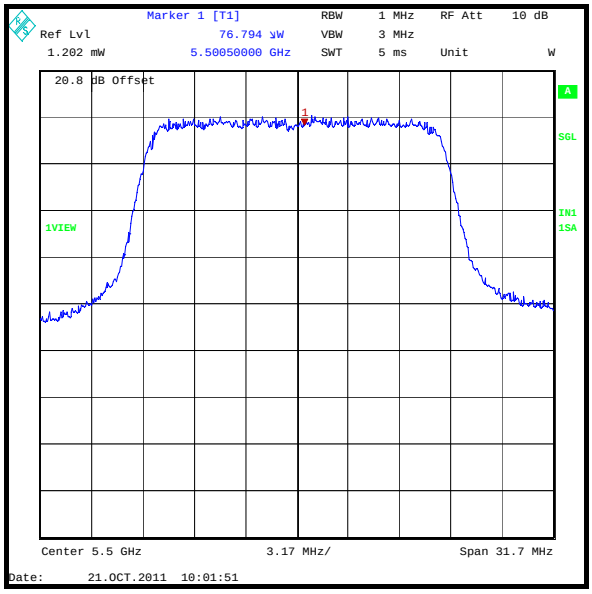
Channel Power UNII 3 802.11n 26 Mbps Middle Channel



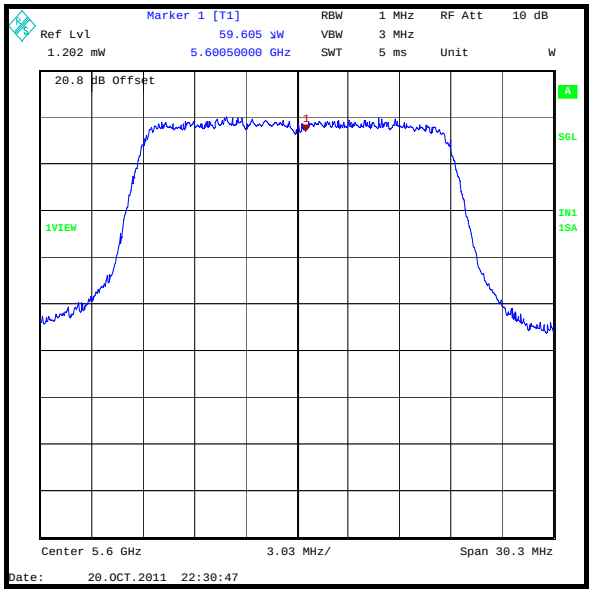
Channel Power UNII 3 802.11n 26 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

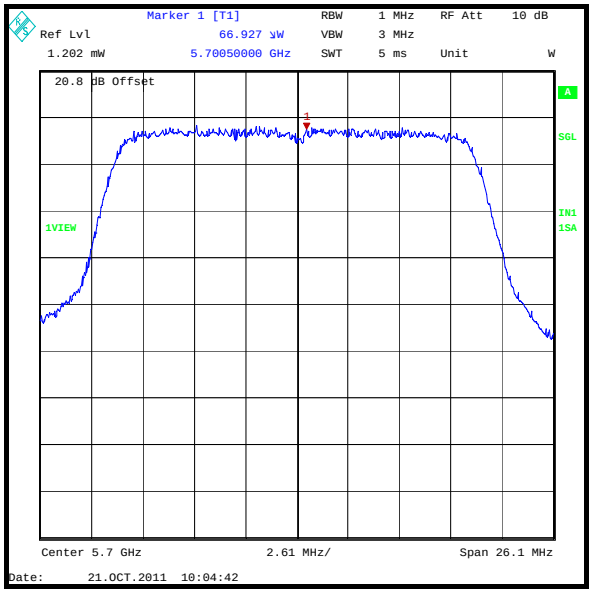
Results - 802.11n 5.500 to 5.700 GHz



Channel Power UNII 3 802.11n 39 Mbps Bottom Channel



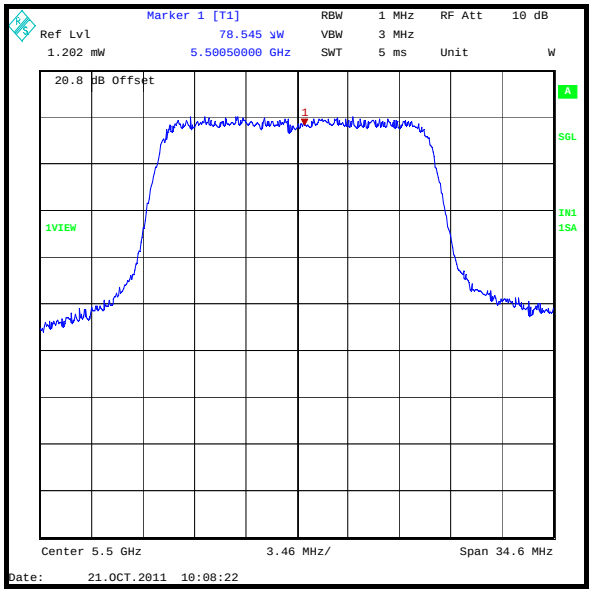
Channel Power UNII 3 802.11n 39 Mbps Middle Channel



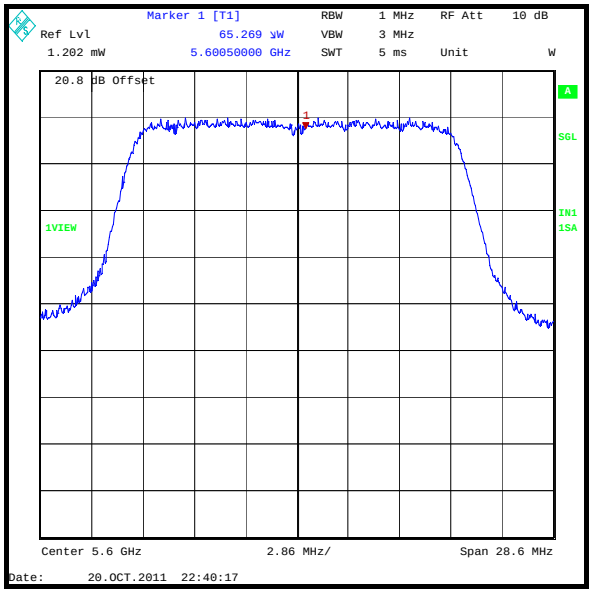
Channel Power UNII 3 802.11n 39 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

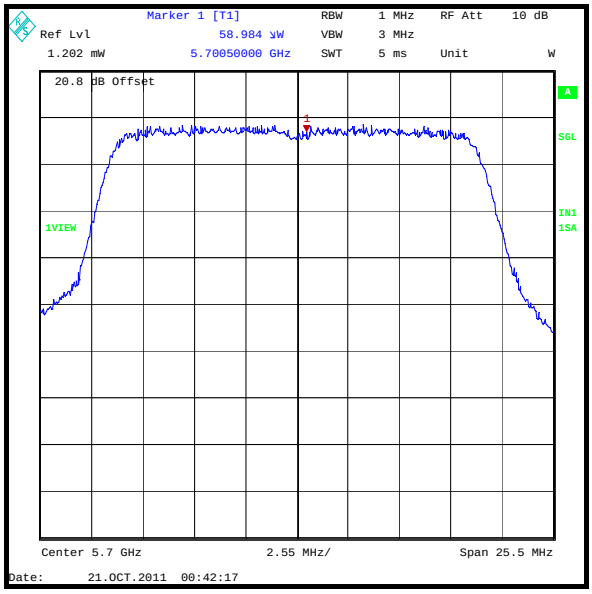
Results - 802.11n 5.500 to 5.700 GHz



Channel Power UNII 3 802.11n 52 Mbps Bottom Channel



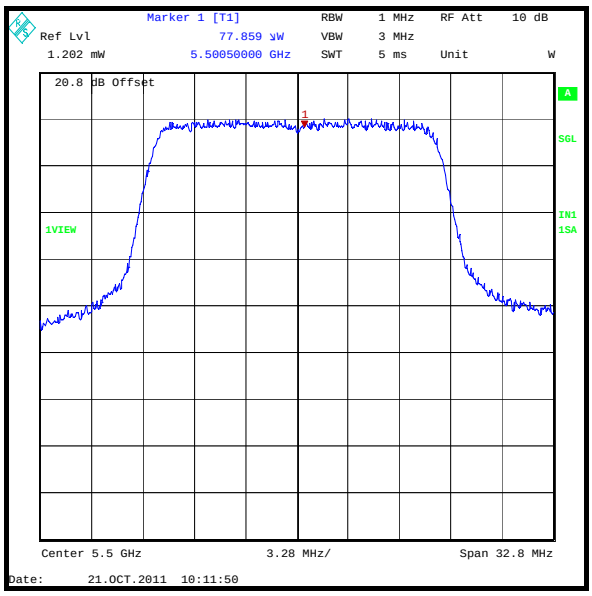
Channel Power UNII 3 802.11n 52 Mbps Middle Channel



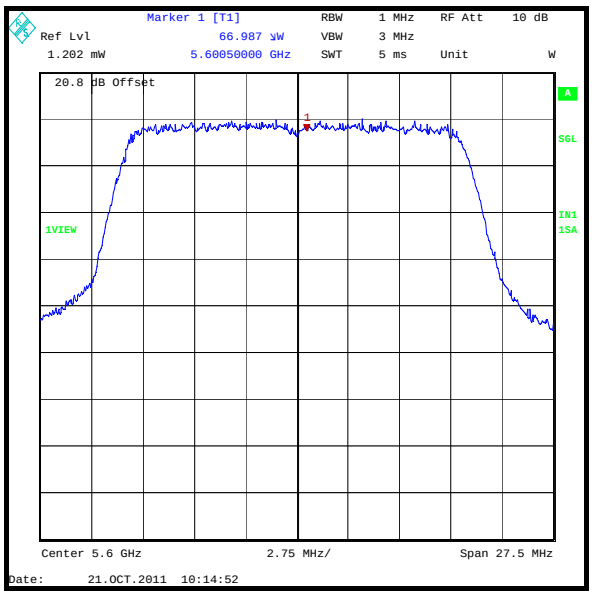
Channel Power UNII 3 802.11n 52 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

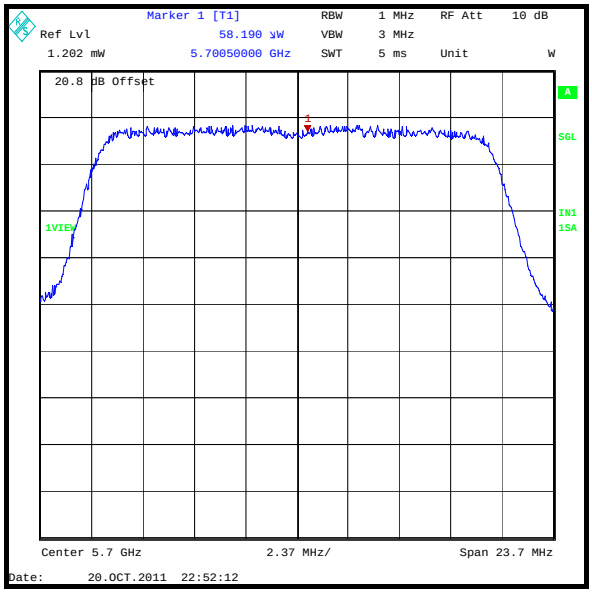
Results - 802.11n 5.500 to 5.700 GHz



Channel Power UNII 3 802.11n 58.5 Mbps Bottom Channel



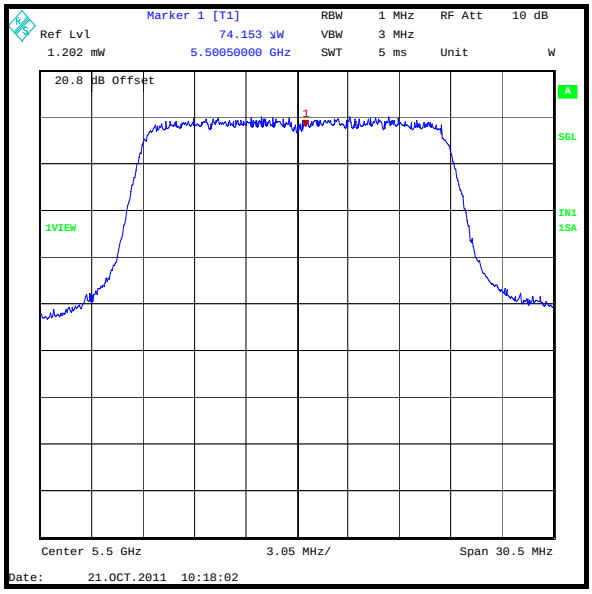
Channel Power UNII 3 802.11n 58.5 Mbps Middle Channel



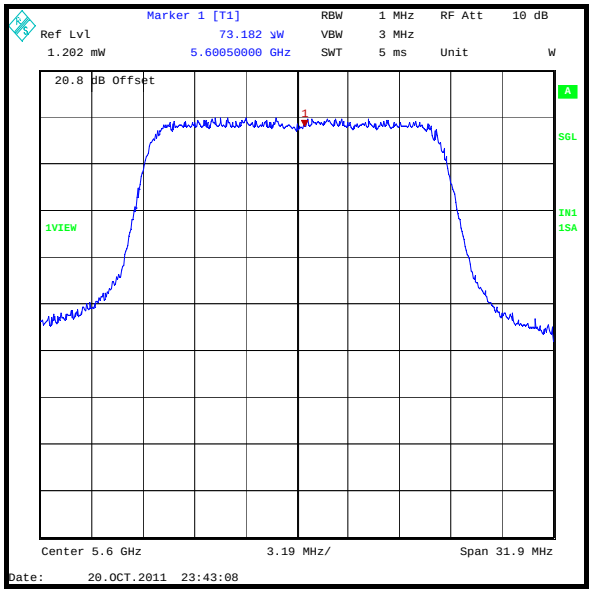
Channel Power UNII 3 802.11n 58.5 Mbps Top Channel

Transmitter Maximum Peak Output Power (continued)

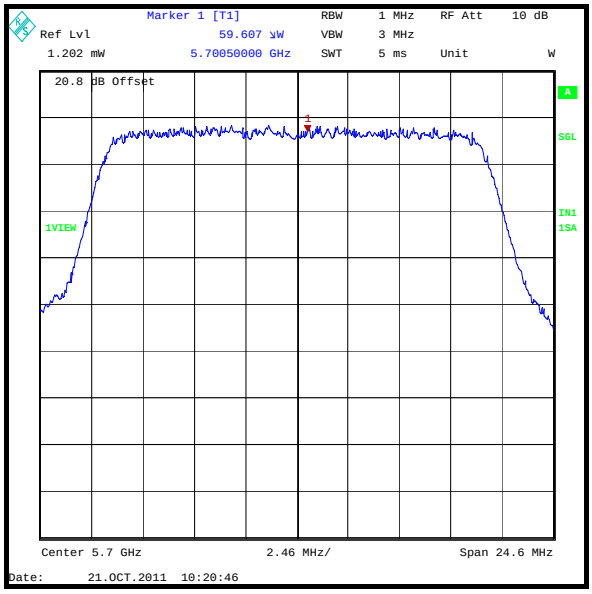
Results - 802.11n 5.500 to 5.700 GHz



Channel Power UNII 3 802.11n 65 Mbps Bottom Channel



Channel Power UNII 3 802.11n 65 Mbps Middle Channel



Channel Power UNII 3 802.11n 65 Mbps Top Channel

5.2.2.Transmitter Maximum Equivalent Isotropically Radiated Power

Test Summary:

Test Engineer:	Crawford Lindsay	**Test Date:**	21 October 2011
Test Sample Serial No:	Id 3		

RSS Reference:	RSS-210 A9.2(1)
Test Method Used:	As detailed in ANSI C63.10 Section 6.10.3.1 Method 1

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	26

Transmitter Maximum Equivalent Isotropically Radiated Power (continued)

Results - 802.11a 5.260 to 5.320 GHz

Channel	Mod Scheme	Data Rate	Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Fixed Limit (dBm)	Margin (dB)	Result
Bottom	BPSK	6	6.4	3.0	9.4	23.0	13.6	Complied
Middle	BPSK	6	6.3	3.0	9.3	23.0	13.7	Complied
Top	BPSK	6	6.9	3.0	9.9	23.0	13.1	Complied
Bottom	BPSK	9	5.2	3.0	8.2	23.0	14.8	Complied
Middle	BPSK	9	5.8	3.0	8.8	23.0	14.2	Complied
Top	BPSK	9	6.8	3.0	9.8	23.0	13.2	Complied
Bottom	QPSK	12	5.3	3.0	8.3	23.0	14.7	Complied
Middle	QPSK	12	6.1	3.0	9.1	23.0	13.9	Complied
Top	QPSK	12	6.8	3.0	9.8	23.0	13.2	Complied
Bottom	QPSK	18	5.4	3.0	8.4	23.0	14.6	Complied
Middle	QPSK	18	7.2	3.0	10.2	23.0	12.8	Complied
Top	QPSK	18	7.7	3.0	10.7	23.0	12.3	Complied
Bottom	16QAM	24	5.6	3.0	8.6	23.0	14.4	Complied
Middle	16QAM	24	5.9	3.0	8.9	23.0	14.1	Complied
Top	16QAM	24	6.8	3.0	9.8	23.0	13.2	Complied
Bottom	16QAM	36	5.3	3.0	8.3	23.0	14.7	Complied
Middle	16QAM	36	5.8	3.0	8.8	23.0	14.2	Complied
Top	16QAM	36	6.8	3.0	9.8	23.0	13.2	Complied
Bottom	64QAM	48	5.3	3.0	8.3	23.0	14.7	Complied
Middle	64QAM	48	6.0	3.0	9	23.0	14.0	Complied
Top	64QAM	48	7.1	3.0	10.1	23.0	12.9	Complied
Bottom	64QAM	54	5.6	3.0	8.6	23.0	14.4	Complied
Middle	64QAM	54	6.1	3.0	9.1	23.0	13.9	Complied
Top	64QAM	54	7.1	3.0	10.1	23.0	12.9	Complied

Note(s):

1. The limit is the lesser of 200 mW (23.0 dBm) or 10 dBm + 10 log B, where B is the 99% emission bandwidth in MHz.
2. For the smallest 99% bandwidth of 19.1 MHz taken from RFI-RPT-78718JD33C, the limit equates to 22.8 dBm. However as the pass margin is in excess of 10 dB for all test case, the fixed limit of 23.0 dBm is detailed in the above table for the sake of simplicity.
3. The declared antenna gain in dBi for InSide-EPA WLAN antenna was added to the measured conducted power to obtain the EIRP.

   EIRP = Conducted power + Antenna Gain in dBm

Transmitter Maximum Equivalent Isotropically Radiated Power (continued)

Results - 802.11n 5.260 to 5.320 GHz

Channel	Mod Scheme	Data Rate	Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Fixed Limit (dBm)	Margin (dB)	Result
Bottom	BPSK	6.5	7.2	3.0	10.2	23.0	12.8	Complied
Middle	BPSK	6.5	6.8	3.0	9.8	23.0	13.2	Complied
Top	BPSK	6.5	7.5	3.0	10.5	23.0	12.5	Complied
Bottom	QPSK	13	5.9	3.0	8.9	23.0	14.1	Complied
Middle	QPSK	13	6.5	3.0	9.5	23.0	13.5	Complied
Top	QPSK	13	7.3	3.0	10.3	23.0	12.7	Complied
Bottom	QPSK	19.5	5.8	3.0	8.8	23.0	14.2	Complied
Middle	QPSK	19.5	6.5	3.0	9.5	23.0	13.5	Complied
Top	QPSK	19.5	7.3	3.0	10.3	23.0	12.7	Complied
Bottom	16QAM	26	5.8	3.0	8.8	23.0	14.2	Complied
Middle	16QAM	26	6.2	3.0	9.2	23.0	13.8	Complied
Top	16QAM	26	8.0	3.0	11.0	23.0	12.0	Complied
Bottom	16QAM	39	5.8	3.0	8.8	23.0	14.2	Complied
Middle	16QAM	39	6.2	3.0	9.2	23.0	13.8	Complied
Top	16QAM	39	7.1	3.0	10.1	23.0	12.9	Complied
Bottom	64QAM	52	5.7	3.0	8.7	23.0	14.3	Complied
Middle	64QAM	52	6.3	3.0	9.3	23.0	13.7	Complied
Top	64QAM	52	7.4	3.0	10.4	23.0	12.6	Complied
Bottom	64QAM	58.5	5.6	3.0	8.6	23.0	14.4	Complied
Middle	64QAM	58.5	6.2	3.0	9.2	23.0	13.8	Complied
Top	64QAM	58.5	7.1	3.0	10.1	23.0	12.9	Complied
Bottom	64QAM	65	7.5	3.0	10.5	23.0	12.5	Complied
Middle	64QAM	65	6.6	3.0	9.6	23.0	13.4	Complied
Top	64QAM	65	7.5	3.0	10.5	23.0	12.5	Complied

Note(s):

1. The limit is the lesser of 200 mW (23.0 dBm) or 10 dBm + 10 log B, where B is the 99% emission bandwidth in MHz.
2. For the smallest 99% bandwidth of 19.1 MHz taken from RFI-RPT-78718JD33C, the limit equates to 22.8 dBm. However as the pass margin is in excess of 10 dB for all test case, the fixed limit of 23.0 dBm is detailed in the above table for the sake of simplicity.
3. The declared antenna gain in dBi for the InSide-EPA WLAN antenna was added to the measured conducted power to obtain the EIRP.

   EIRP = Conducted power + Antenna Gain in dBm

Transmitter Maximum Equivalent Isotropically Radiated Power (continued)

Results - 802.11a 5.550 to 5.700 GHz

Channel	Mod Scheme	Data Rate	Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Fixed Limit (dBm)	Margin (dB)	Result
Bottom	BPSK	6	8.7	3.0	11.7	23.0	11.3	Complied
Middle	BPSK	6	7.6	3.0	10.6	23.0	12.4	Complied
Top	BPSK	6	3.9	3.0	6.9	23.0	16.1	Complied
Bottom	BPSK	9	9.2	3.0	12.2	23.0	10.8	Complied
Middle	BPSK	9	7.5	3.0	10.5	23.0	12.5	Complied
Top	BPSK	9	4.1	3.0	7.1	23.0	15.9	Complied
Bottom	QPSK	12	8.7	3.0	11.7	23.0	11.3	Complied
Middle	QPSK	12	7.5	3.0	10.5	23.0	12.5	Complied
Top	QPSK	12	3.8	3.0	6.8	23.0	16.2	Complied
Bottom	QPSK	18	8.4	3.0	11.4	23.0	11.4	Complied
Middle	QPSK	18	7.2	3.0	10.2	23.0	12.8	Complied
Top	QPSK	18	3.5	3.0	6.5	23.0	16.5	Complied
Bottom	16QAM	24	7.9	3.0	10.9	23.0	12.1	Complied
Middle	16QAM	24	7.0	3.0	10.0	23.0	13.0	Complied
Top	16QAM	24	3.2	3.0	6.2	23.0	16.8	Complied
Bottom	16QAM	36	8.1	3.0	11.1	23.0	11.9	Complied
Middle	16QAM	36	6.9	3.0	9.9	23.0	13.1	Complied
Top	16QAM	36	3.1	3.0	6.1	23.0	16.9	Complied
Bottom	64QAM	48	7.6	3.0	10.6	23.0	12.4	Complied
Middle	64QAM	48	6.7	3.0	9.7	23.0	13.3	Complied
Top	64QAM	48	3.9	3.0	6.9	23.0	16.1	Complied
Bottom	64QAM	54	8.7	3.0	11.7	23.0	11.3	Complied
Middle	64QAM	54	7.0	3.0	10.0	23.0	13.0	Complied
Top	64QAM	54.0	3.5	3.0	6.5	23.0	16.5	Complied

Note(s):

1. The limit is the lesser of 200 mW (23.0 dBm) or 10 dBm + 10 log B, where B is the 99% emission bandwidth in MHz.
2. For the smallest 99% bandwidth of 19.1 MHz taken from RFI-RPT-78718JD33C, the limit equates to 22.8 dBm. However as the pass margin is in excess of 10 dB for all test case, the fixed limit of 23.0 dBm is detailed in the above table for the sake of simplicity.
3. The declared antenna gain in dBi for the InSide-EPA WLAN antenna was added to the measured conducted power to obtain the EIRP.

   EIRP = Conducted power + Antenna Gain in dBm

Transmitter Maximum Equivalent Isotropically Radiated Power (continued)

Results - 802.11n 5.550 to 5.700 GHz

Channel	Mod Scheme	Data Rate	Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Fixed Limit (dBm)	Margin (dB)	Result
Bottom	BPSK	6.5	8.3	3.0	11.3	23.0	11.7	Complied
Middle	BPSK	6.5	7.5	3.0	10.5	23.0	12.5	Complied
Top	BPSK	6.5	5.6	3.0	8.6	23.0	14.4	Complied
Bottom	QPSK	13	9.7	3.0	12.7	23.0	10.3	Complied
Middle	QPSK	13	7.7	3.0	10.7	23.0	12.3	Complied
Top	QPSK	13	4.4	3.0	7.4	23.0	15.6	Complied
Bottom	QPSK	19.5	8.5	3.0	11.5	23.0	11.5	Complied
Middle	QPSK	19.5	7.8	3.0	10.8	23.0	12.2	Complied
Top	QPSK	19.5	4.3	3.0	7.3	23.0	15.7	Complied
Bottom	16QAM	26	8.3	3.0	11.3	23.0	11.7	Complied
Middle	16QAM	26	7.2	3.0	10.2	23.0	12.8	Complied
Top	16QAM	26	3.8	3.0	6.8	23.0	16.2	Complied
Bottom	16QAM	39	8.2	3.0	11.2	23.0	11.8	Complied
Middle	16QAM	39	7.3	3.0	10.3	23.0	12.7	Complied
Top	16QAM	39	3.5	3.0	6.5	23.0	16.5	Complied
Bottom	64QAM	52	8.1	3.0	11.1	23.0	11.9	Complied
Middle	64QAM	52	7.5	3.0	10.5	23.0	12.5	Complied
Top	64QAM	52	4.6	3.0	7.6	23.0	15.4	Complied
Bottom	64QAM	58.5	8.4	3.0	11.4	23.0	11.6	Complied
Middle	64QAM	58.5	7.1	3.0	10.1	23.0	12.9	Complied
Top	64QAM	58.5	4.5	3.0	7.5	23.0	15.5	Complied
Bottom	64QAM	65	8.1	3.0	11.1	23.0	11.9	Complied
Middle	64QAM	65	7.8	3.0	10.8	23.0	12.2	Complied
Top	64QAM	65	3.5	3.0	6.5	23.0	16.5	Complied

Note(s):

1. The limit is the lesser of 200 mW (23.0 dBm) or 10 dBm + 10 log B, where B is the 99% emission bandwidth in MHz.
2. For the smallest 99% bandwidth of 19.1 MHz taken from RFI-RPT-78718JD33C, the limit equates to 22.8 dBm. However as the pass margin is in excess of 10 dB for all test case, the fixed limit of 23.0 dBm is detailed in the above table for the sake of simplicity.
3. The declared antenna gain in dBi for the InSide-EPA WLAN antenna was added to the measured conducted power to obtain the EIRP.

   EIRP = Conducted power + Antenna Gain in dBm

5.2.3. Transmitter Out of Band Radiated Emissions

Results – (5.260 - 5.320 GHz Band)

Test Summary:

Test Engineer:	Nick Steele	**Test Date:**	22 October 2011 & 26 October 2011
Test Sample Serial No:	Id3		

FCC/IC Part:	15.407(b) / 15.209(a) and RSS-Gen 4.9 / RSS-210 A9.3 (2 & 3)
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.5 referencing ANSI C63.4
Frequency Range	30 MHz to 40 GHz

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	28

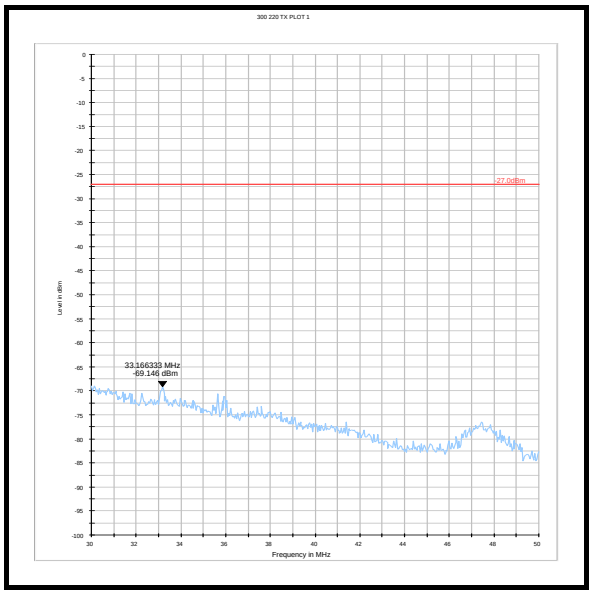
Results: Top Channel

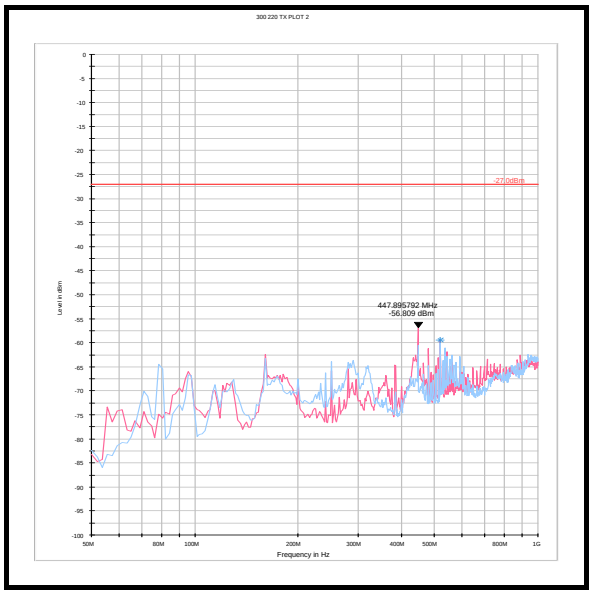
Frequency (GHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
37.186	Horizontal	-39.7	-27.0	12.7	Complied

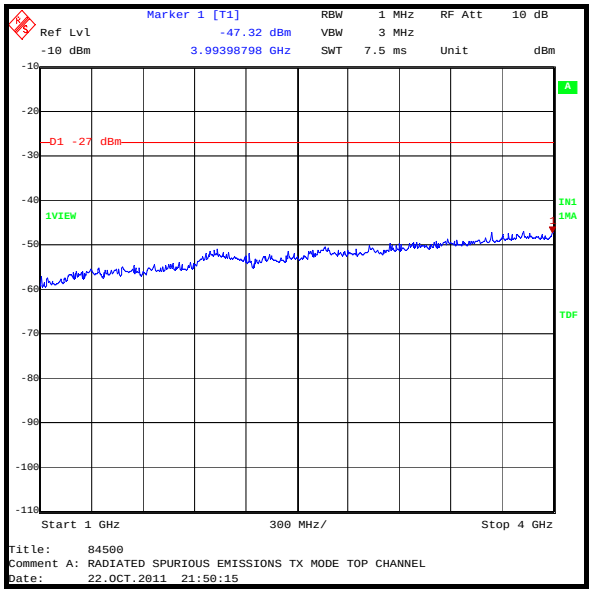
Note(s):

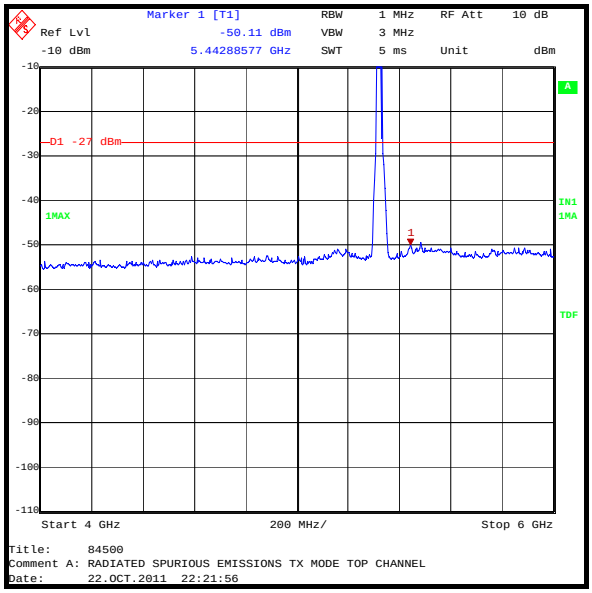
1. All measurements within this section of report were performed with the InSide-EPA WLAN antenna fitted.
2. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss.
3. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the top channel only.
4. All emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
5. The emission shown on the 4 GHz to 6 GHz plot is the EUT fundamental.
6. Pre-scans above 1 GHz were performed in a fully anechoic chamber (RFI Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Out of Band Radiated Emissions 5.260 - 5.320 GHz band (continued)

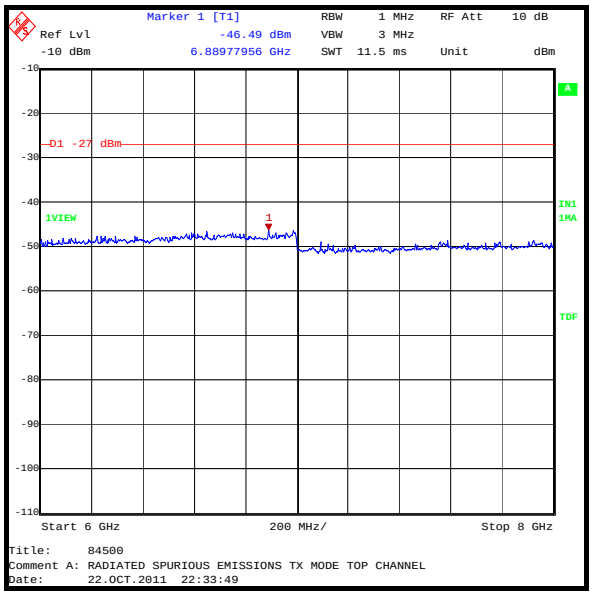


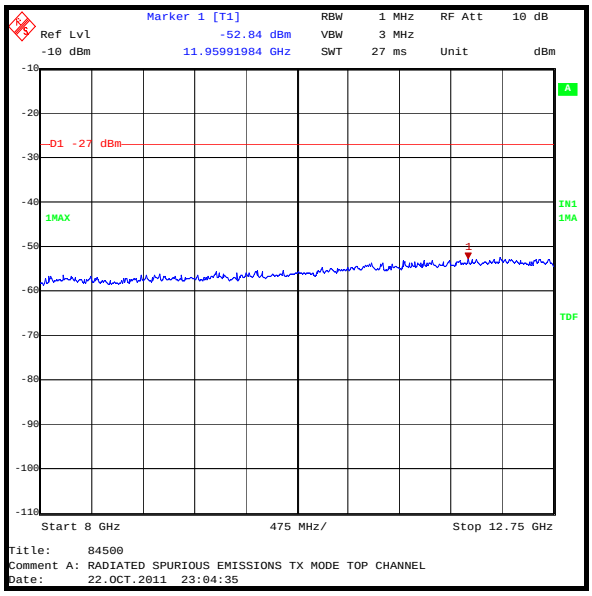


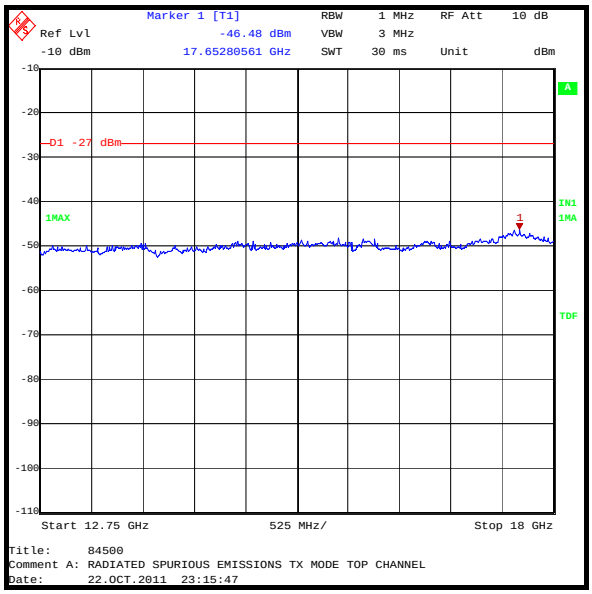


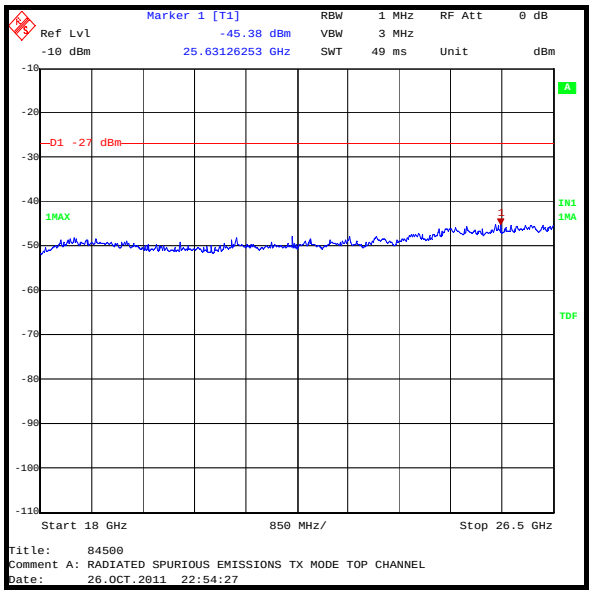


Transmitter Out of Band Radiated Emissions 5.260 - 5.320 GHz band (continued)

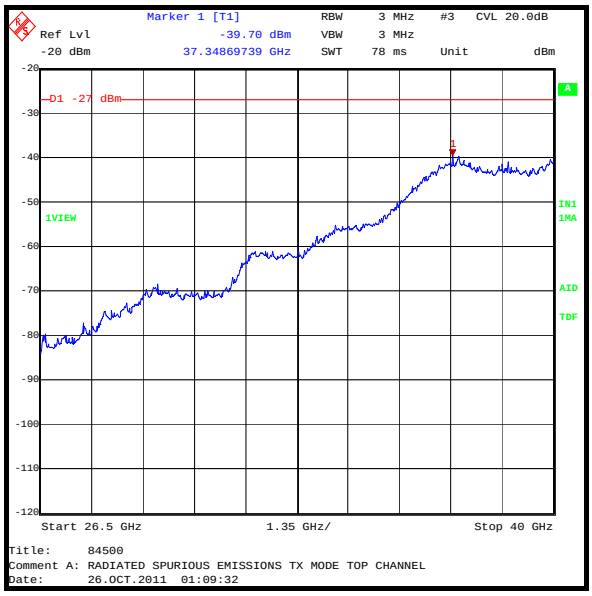








Transmitter Out of Band Radiated Emissions 5.260 - 5.320 GHz band (continued)



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Transmitter Out of Band Radiated Emissions (Continued)

Results - 5.500 - 5.700 GHz band

Test Engineer:	Nick Steele	**Test Date:**	26 October 2011
Test Sample Serial No:	Id3		

FCC/IC Part:	15.407(b) / 15.209(a) and RSS-Gen 4.9 / RSS-210 A9.2 (2 & 3)
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.6 referencing ANSI C63.4
Frequency Range	30 MHz to 40 GHz

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	25

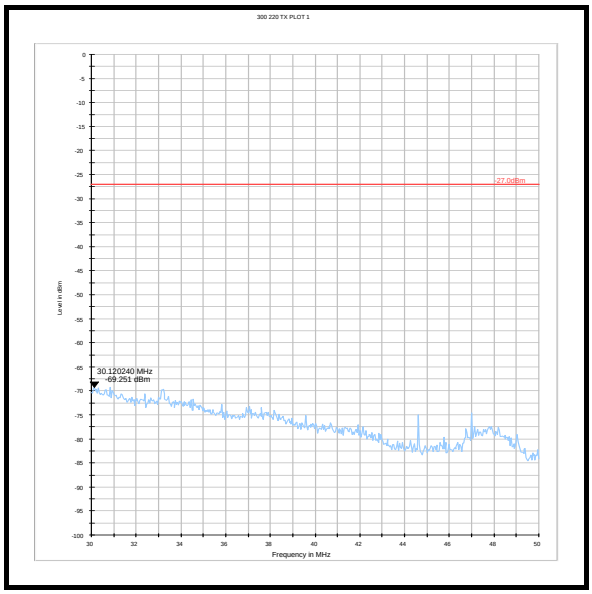
Results:

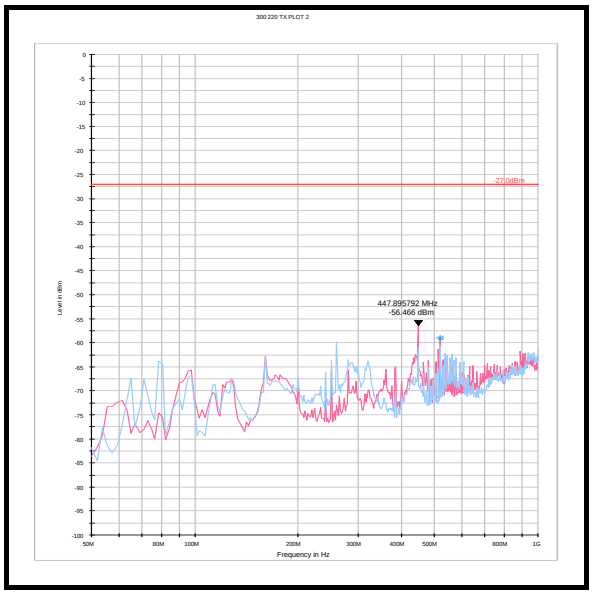
Frequency (GHz)	Antenna Polarity	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
39.864	Horizontal	-41.0	-27.0	14.0	Complied

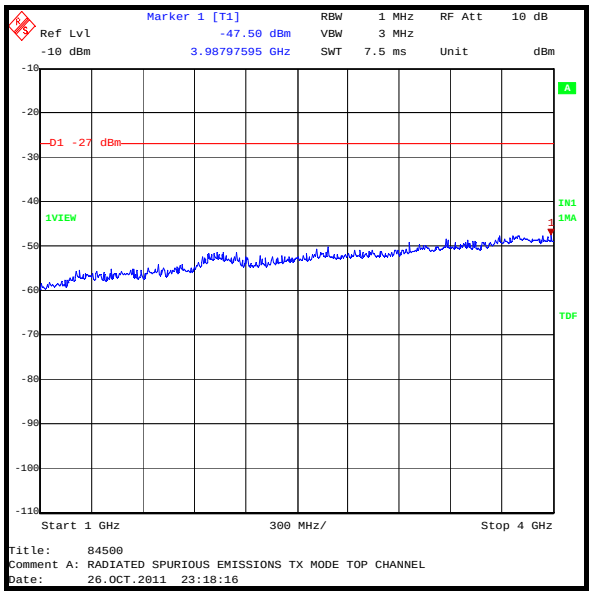
Note(s):

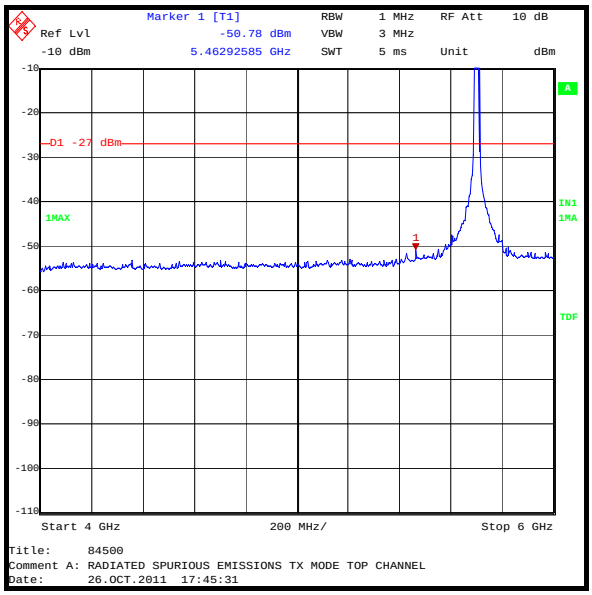
1. All measurements within this section of the report were performed with the InSide- EPA WLAN antenna fitted.
2. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss.
3. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the top channel only.
4. All emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
5. The emission shown on the 4 GHz to 6 GHz plot is the EUT fundamental.
6. Pre-scans above 1 GHz were performed in a fully anechoic chamber (RFI Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Out of Band Radiated Emissions 5.500 - 5.700 GHz band (continued)

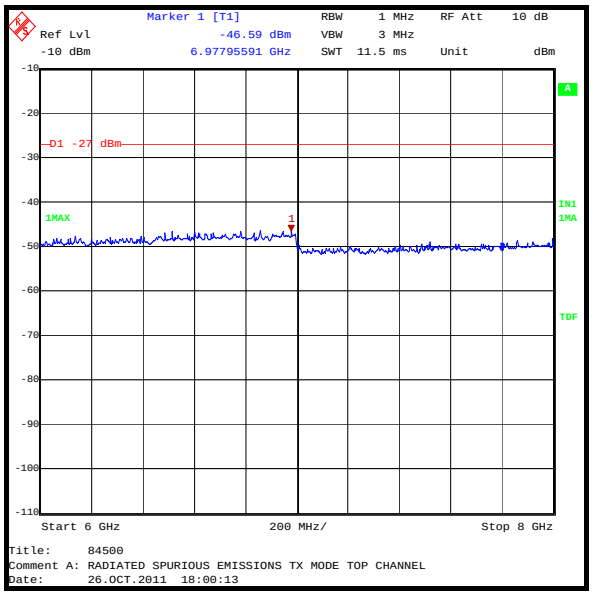


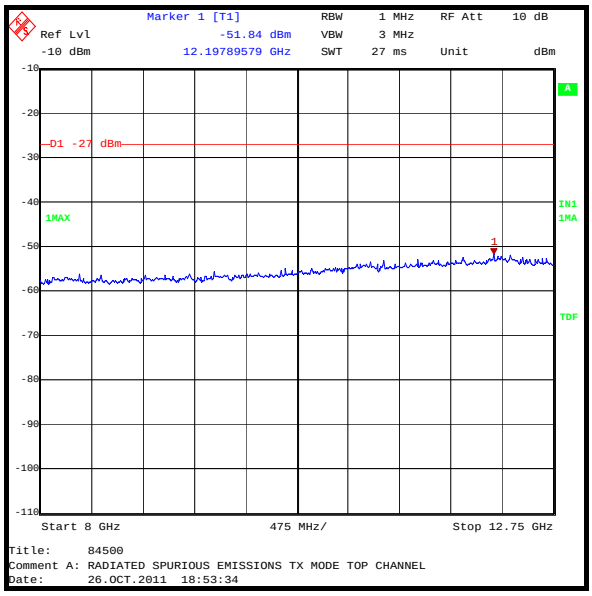


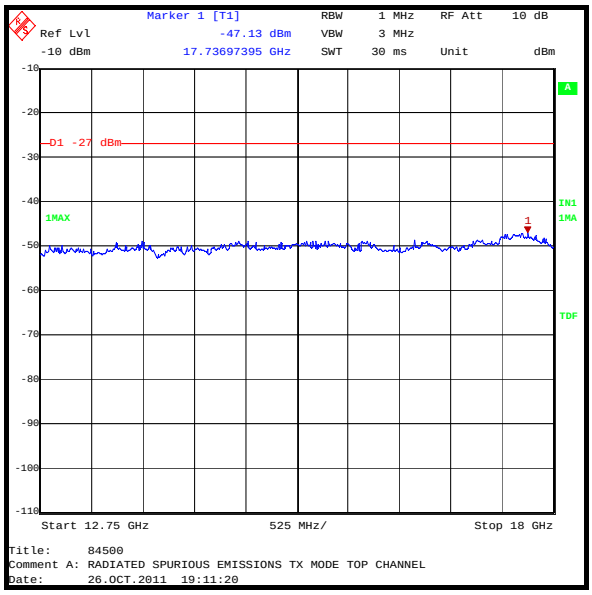


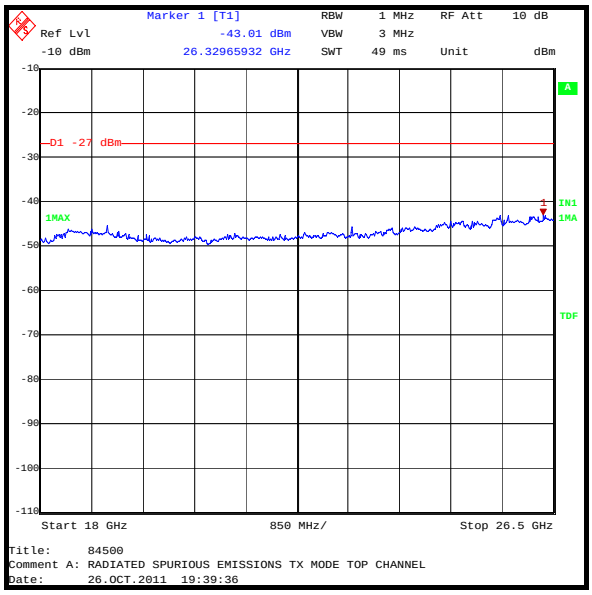


Transmitter Out of Band Radiated Emissions 5.500 - 5.700 GHz band (continued)

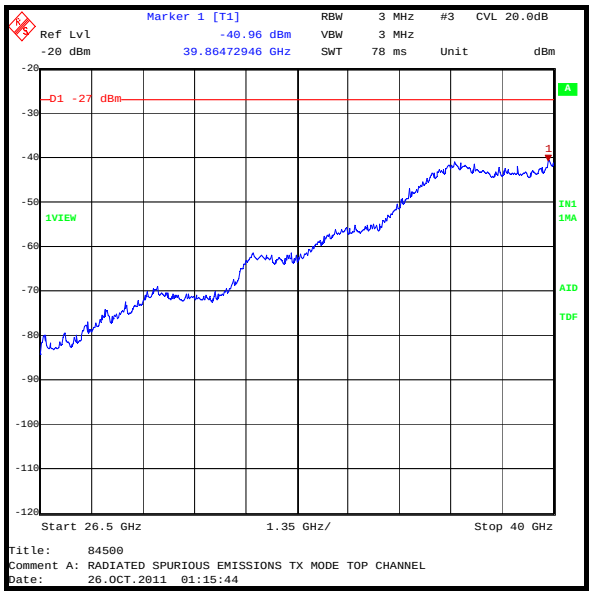








Transmitter Out of Band Radiated Emissions 5.500 - 5.700 GHz band (continued)



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

5.2.4. Transmitter Band Edge Radiated Emissions

Results - 5.260 to 5.320 GHz band

Test Summary:

Test Engineer:	Patrick Jones	**Test Date:**	28 October 2011
Test Sample Serial No:	Id3		

FCC/IC Part:	15.407(b) / 15.209(a) and RSS-Gen 4.9 / RSS-210 A9.2 (2 & 3)
Test Method Used:	As detailed in ANSI C63.10 Section 6.9.2 referencing FCC Part 15.407(b)(5)

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	32

Note(s):

- All measurements within this section of the report were performed with the InSide- EPA WLAN antenna fitted.

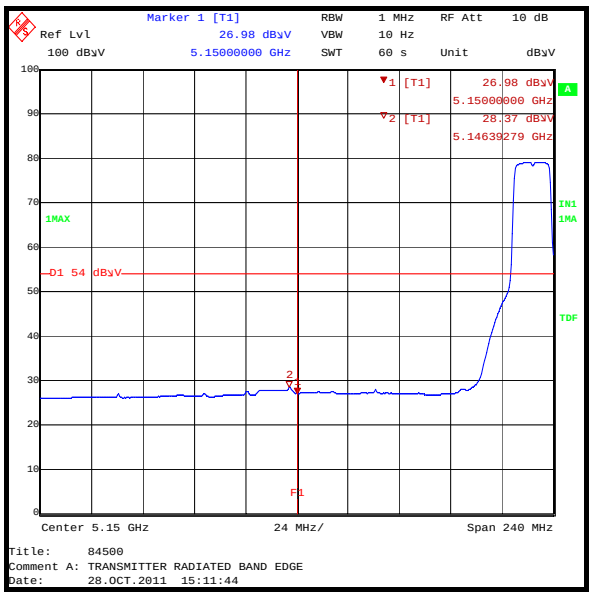
Transmitter Band Edge Radiated Emissions (continued)

Results - 802.11a – 5.260 to 5.320 GHz band

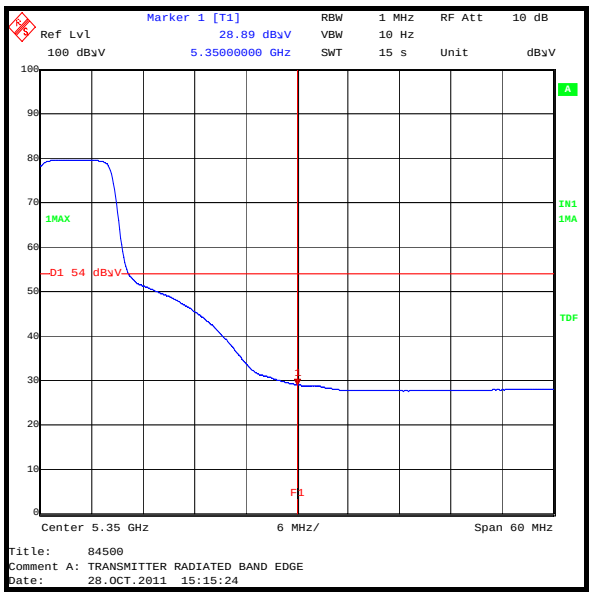
Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak/ Average	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
5260	BPSK	6	Average	27.0	54.0	27.0	Complied
5260	BPSK	6	Peak	40.1	74.0	33.9	Complied
5320	BPSK	6	Average	28.9	54.0	25.1	Complied
5320	BPSK	6	Peak	45.0	74.0	29.0	Complied
5260	BPSK	9	Average	27.0	54.0	27.0	Complied
5260	BPSK	9	Peak	39.8	74.0	34.2	Complied
5320	BPSK	9	Average	29.2	54.0	24.8	Complied
5320	BPSK	9	Peak	47.3	74.0	26.7	Complied
5260	QPSK	12	Average	27.0	54.0	27.0	Complied
5260	QPSK	12	Peak	29.6	74.0	44.4	Complied
5320	QPSK	12	Average	28.8	54.0	25.2	Complied
5320	QPSK	12	Peak	45.8	74.0	28.2	Complied
5260	QPSK	18	Average	27.0	54.0	27.0	Complied
5260	QPSK	18	Peak	39.4	74.0	34.6	Complied
5320	QPSK	18	Average	29.0	54.0	25.0	Complied
5320	QPSK	18	Peak	47.0	74.0	27.0	Complied
5260	16QAM	24	Average	28.4	54.0	25.6	Complied
5260	16QAM	24	Peak	39.5	74.0	34.5	Complied
5320	16QAM	24	Average	28.9	54.0	25.1	Complied
5320	16QAM	24	Peak	46.9	74.0	27.1	Complied
5260	16QAM	36	Average	28.4	54.0	25.6	Complied
5260	16QAM	36	Peak	39.9	74.0	34.1	Complied
5320	16QAM	36	Average	29.0	54.0	25.0	Complied
5320	16QAM	36	Peak	45.7	74.0	28.3	Complied
5260	64QAM	48	Average	26.9	54.0	27.1	Complied
5260	64QAM	48	Peak	39.5	74.0	34.5	Complied
5320	64QAM	48	Average	28.9	54.0	25.1	Complied
5320	64QAM	48	Peak	44.8	74.0	29.2	Complied
5260	64QAM	54	Average	27.0	54.0	27.0	Complied
5260	64QAM	54	Peak	40.2	74.0	33.8	Complied
5320	64QAM	54	Average	29.1	54.0	24.9	Complied
5320	64QAM	54	Peak	46.5	74.0	27.5	Complied

Transmitter Band Edge Radiated Emissions (continued)

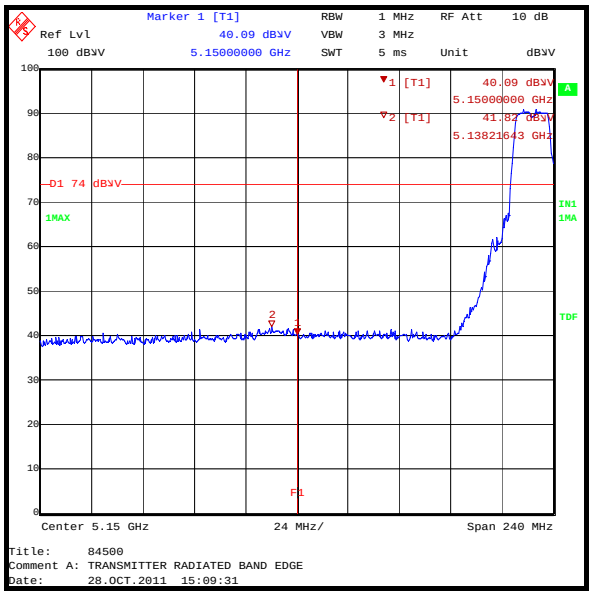
Plots - 802.11a – 5.260 to 5.320 GHz band



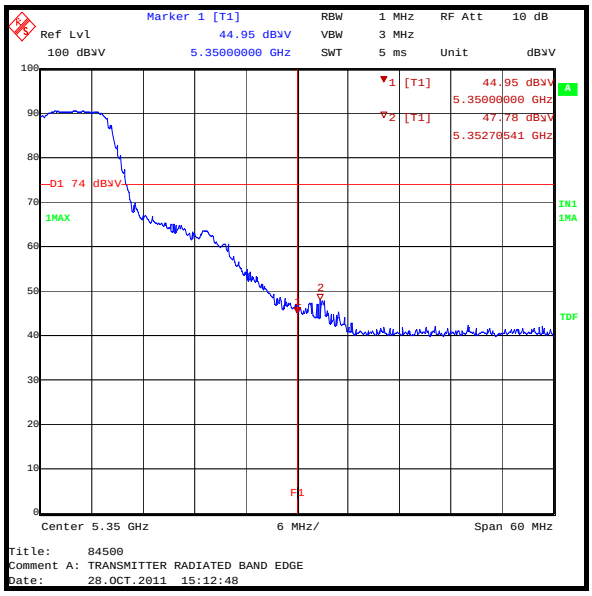
802.11a 5260 MHz 6 Mbps Average Plot



802.11a 5320 MHz 6 Mbps Average Plot



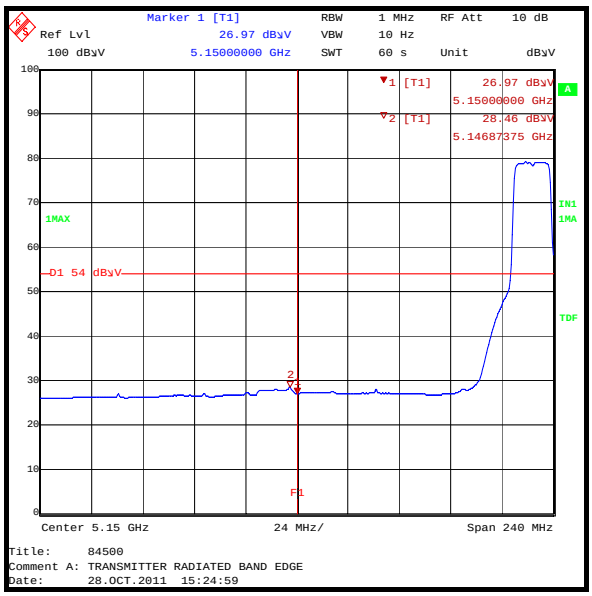
802.11a 5260 MHz 6 Mbps Peak Plot



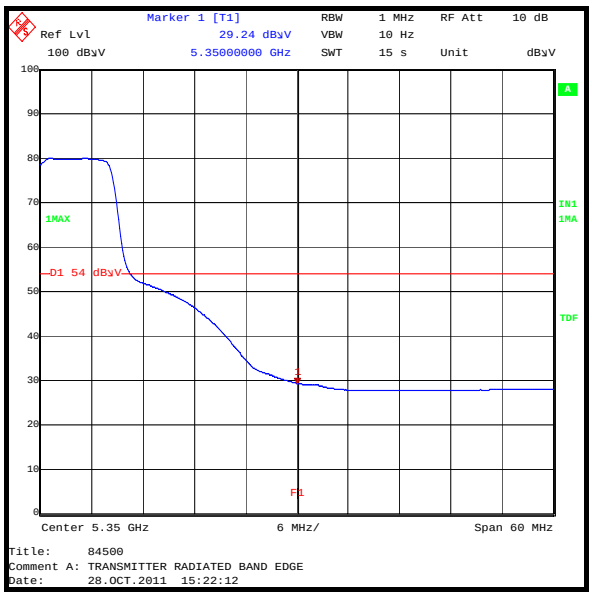
802.11a 5320 MHz 6 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

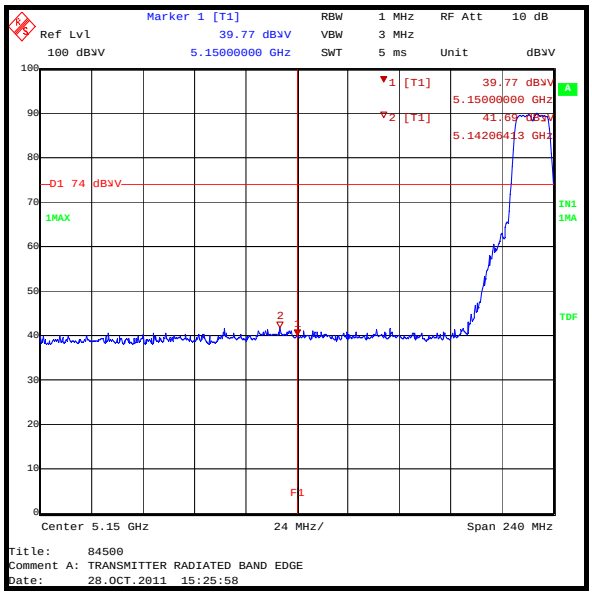
Plots - 802.11a – 5.260 to 5.320 GHz band



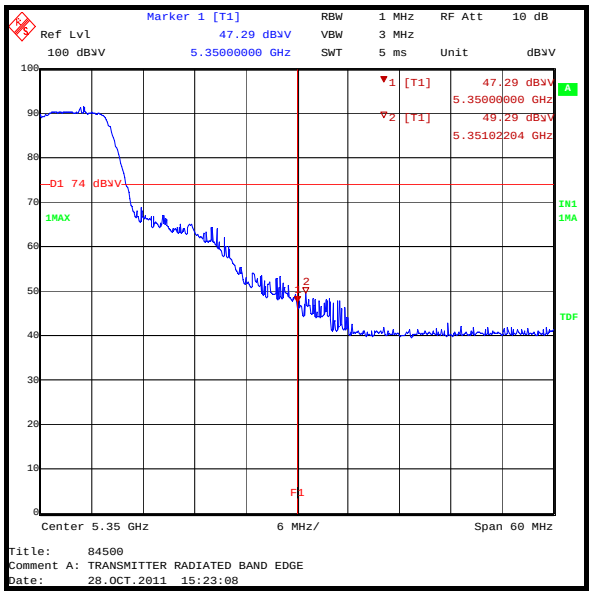
802.11a 5260 MHz 9 Mbps Average Plot



802.11a 5320 MHz 9 Mbps Average Plot



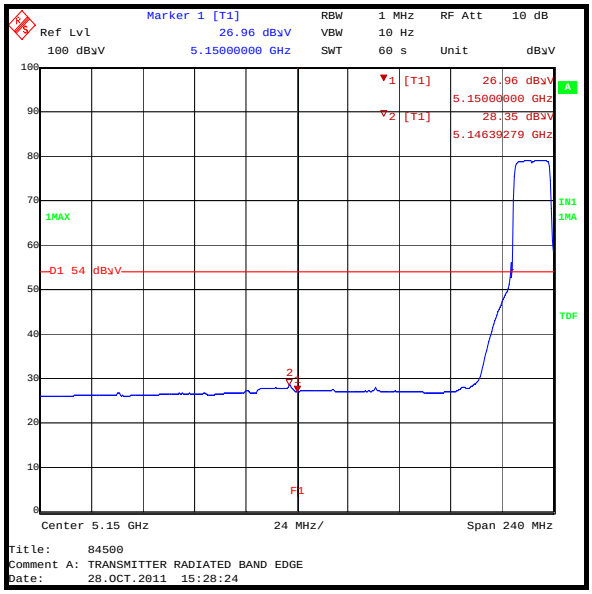
802.11a 5260 MHz 9 Mbps Peak Plot



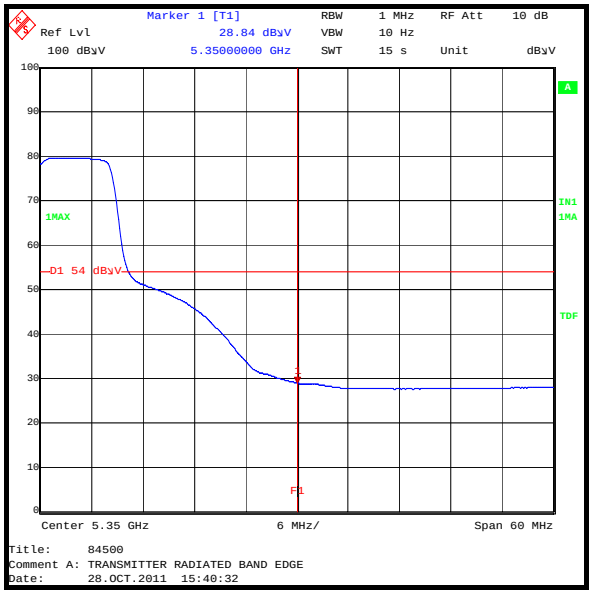
802.11a 5320 MHz 9 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

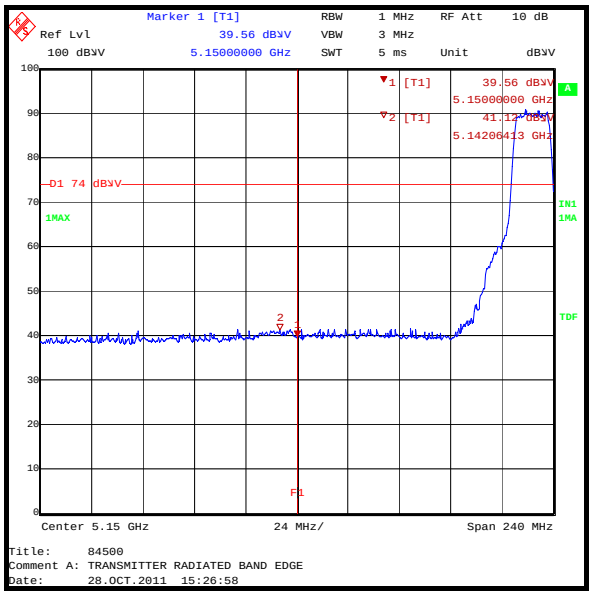
Plots - 802.11a – 5.260 to 5.320 GHz band



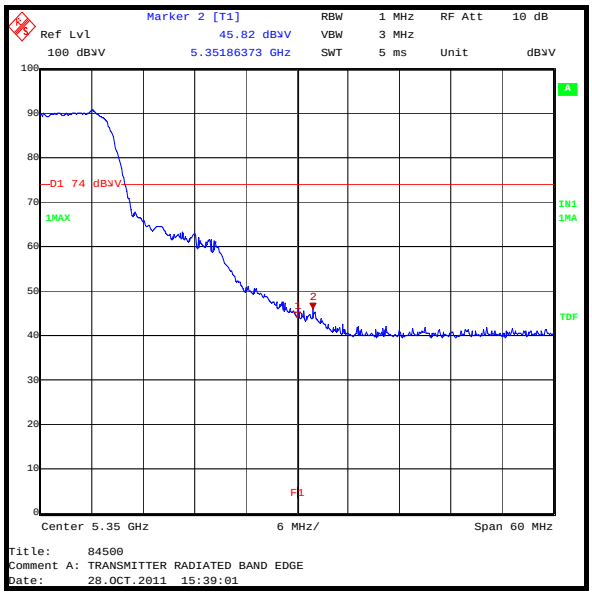
802.11a 5260 MHz 12 Mbps Average Plot



802.11a 5320 MHz 12 Mbps Average Plot



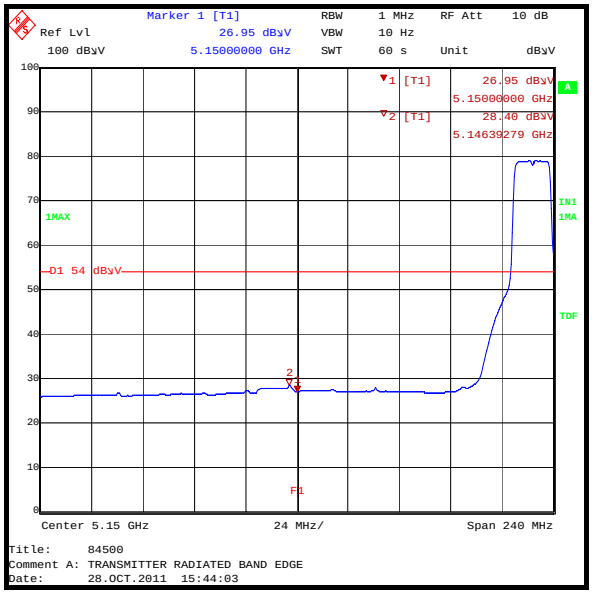
802.11a 5260 MHz 12 Mbps Peak Plot



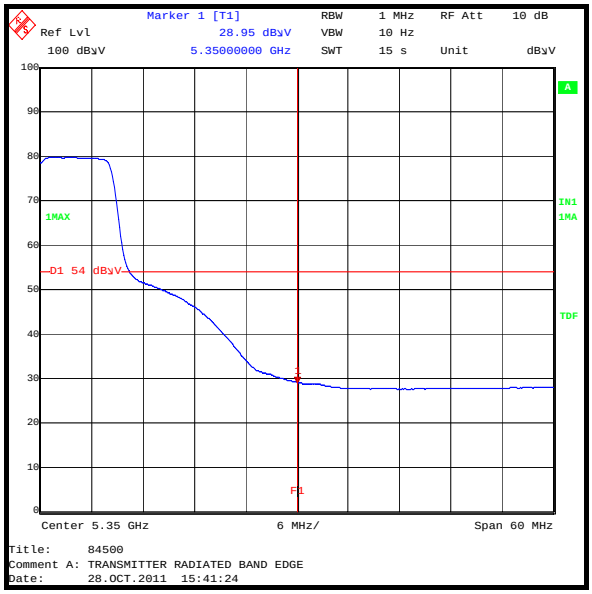
802.11a 5320 MHz 12 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

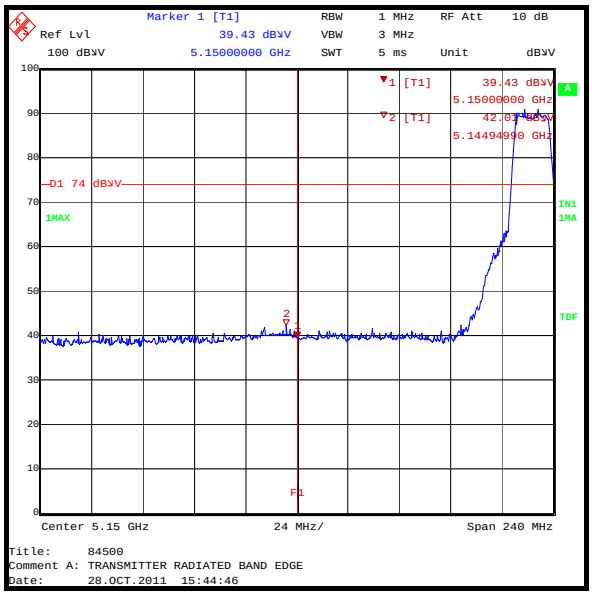
Plots - 802.11a – 5.260 to 5.320 GHz band



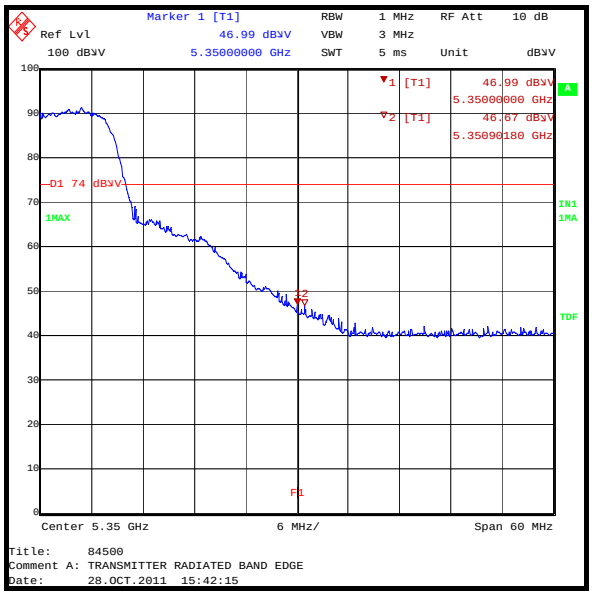
802.11a 5260 MHz 18 Mbps Average Plot



802.11a 5320 MHz 18 Mbps Average Plot



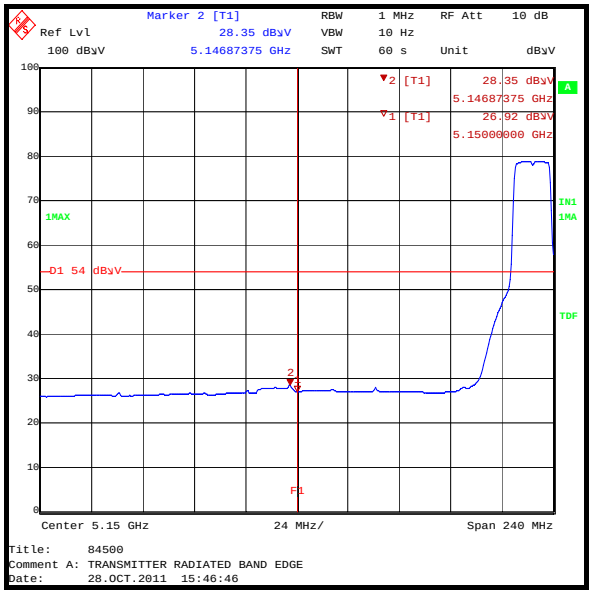
802.11a 5260 MHz 18 Mbps Peak Plot



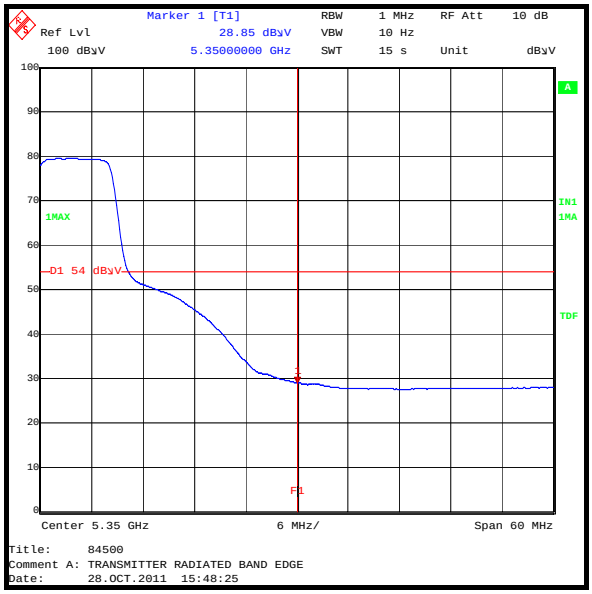
802.11a 5320 MHz 18 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

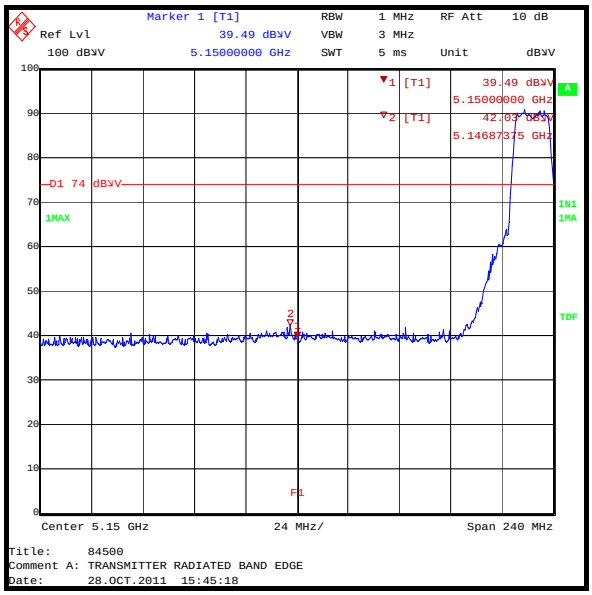
Plots - 802.11a – 5.260 to 5.320 GHz band



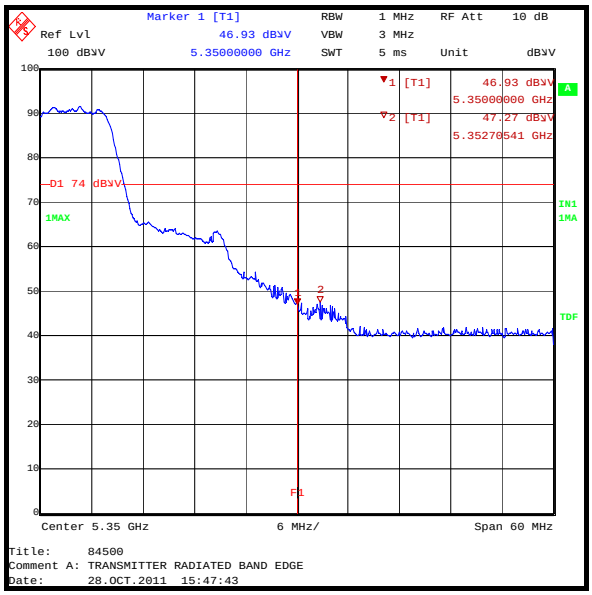
802. 11 a 5260 MHz 24 Mbps Average Plot



802.11a 5320 MHz 24 Mbps Average Plot



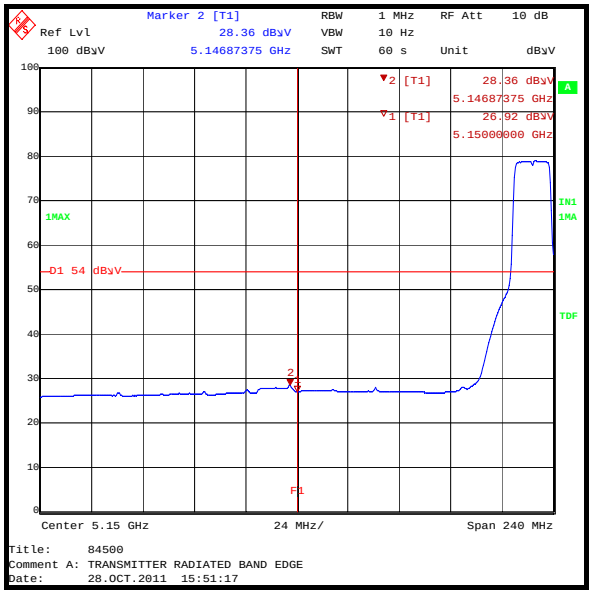
802.11a 5260 MHz 24 Mbps Peak Plot



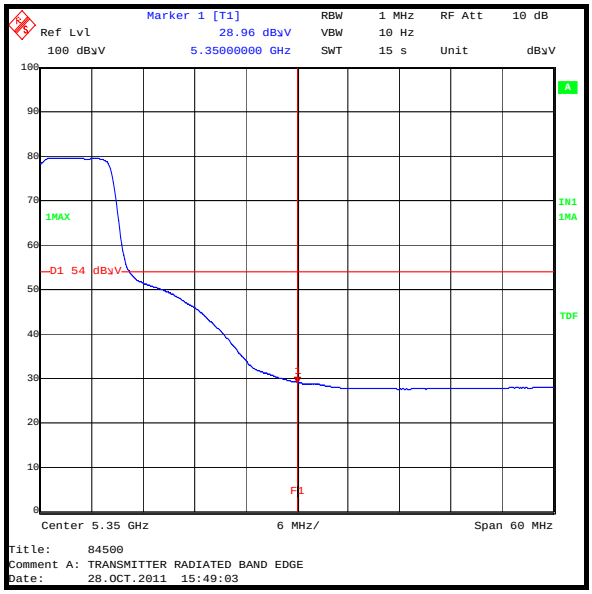
802.11a 5320 MHz 24 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

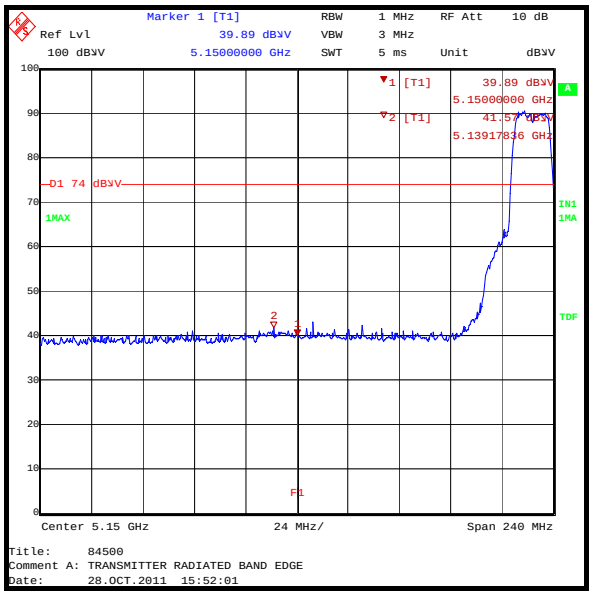
Plots - 802.11a – 5.260 to 5.320 GHz band



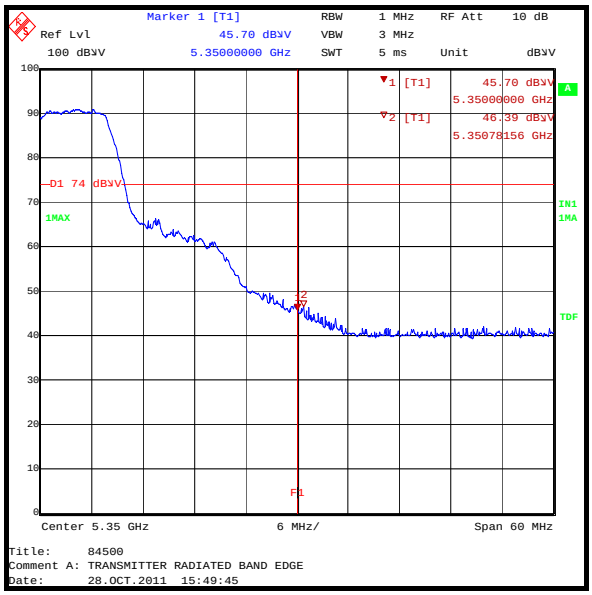
802.11a 5260 MHz 36 Mbps Average Plot



802.11a 5320 MHz 36 Mbps Average Plot



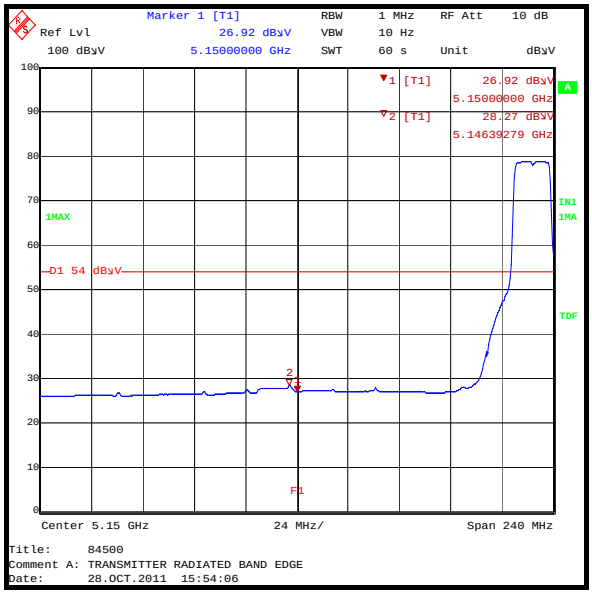
802.11a 5260 MHz 36 Mbps Peak Plot



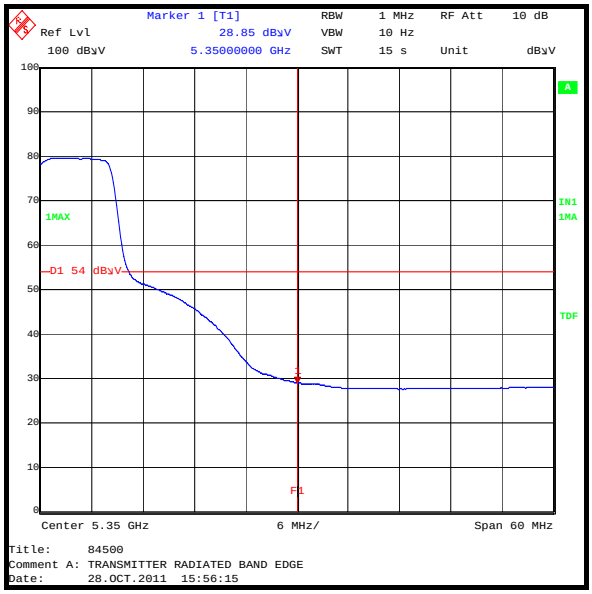
802.11a 5320 MHz 36 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

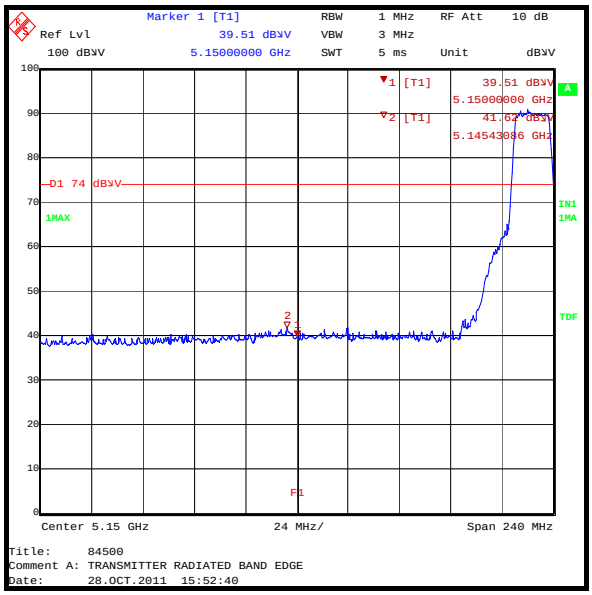
Plots - 802.11a – 5.260 to 5.320 GHz band



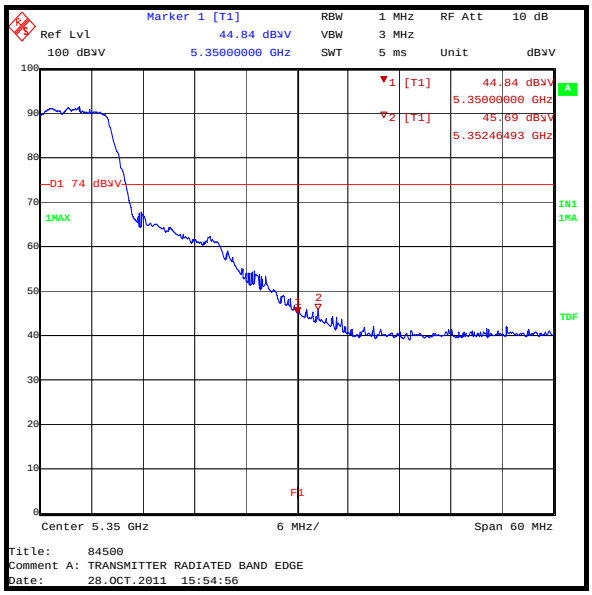
802.11a 5260 MHz 48 Mbps Average Plot



802.11a 5320 MHz 48 Mbps Average Plot



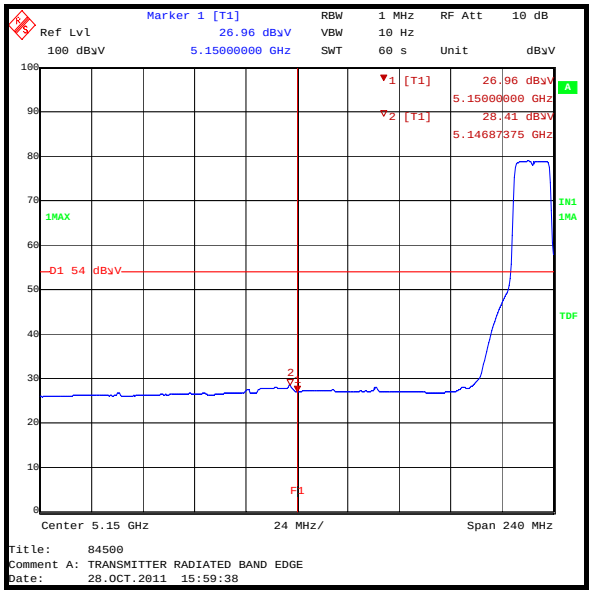
802.11a 5260 MHz 48 Mbps Peak Plot



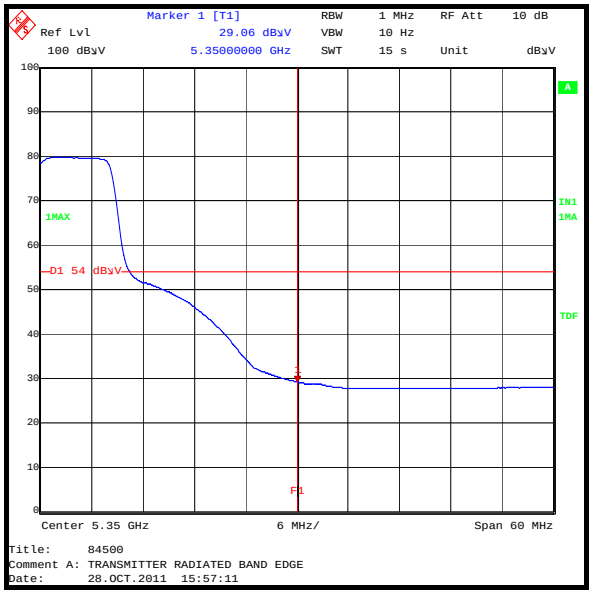
802.11a 5320 MHz 48 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

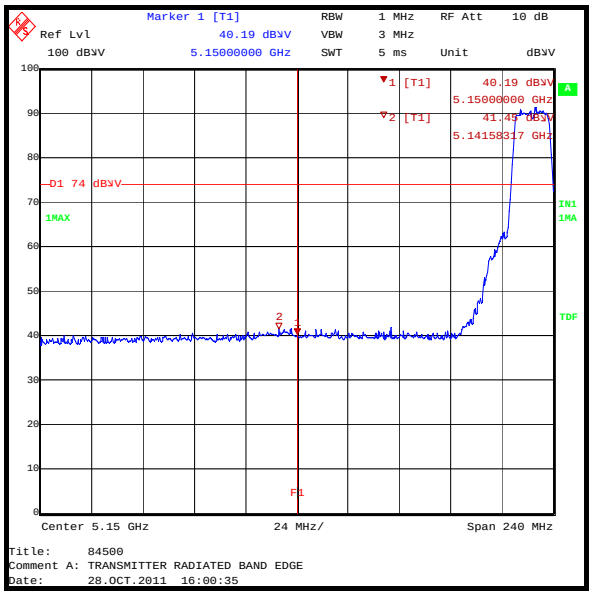
Plots - 802.11a – 5.260 to 5.320 GHz band



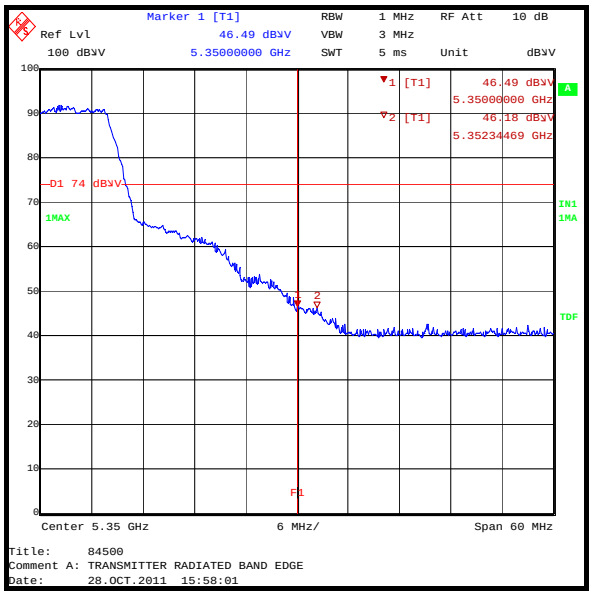
802.11a 5260 MHz 54 Mbps Average Plot



802.11a 5320 MHz 54 Mbps Average Plot



802.11a 5260 MHz 54 Mbps Peak Plot



802.11a 5320 MHz 54 Mbps Peak Plot

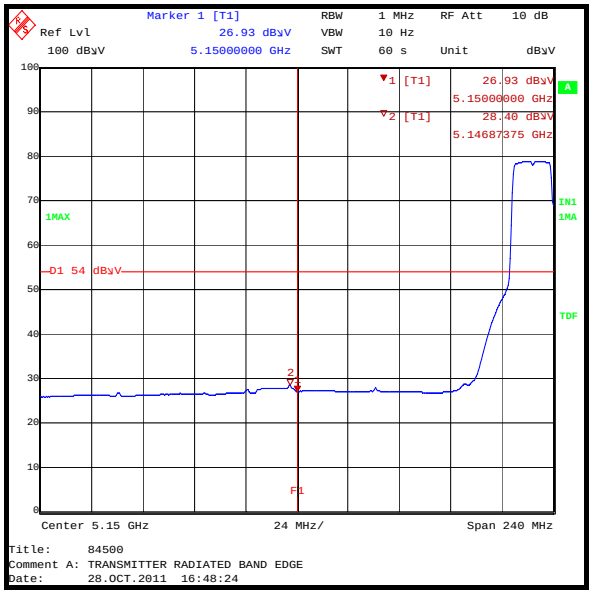
Transmitter Band Edge Radiated Emissions (continued)

Results - 802.11n – 5.260 to 5.320 GHz band

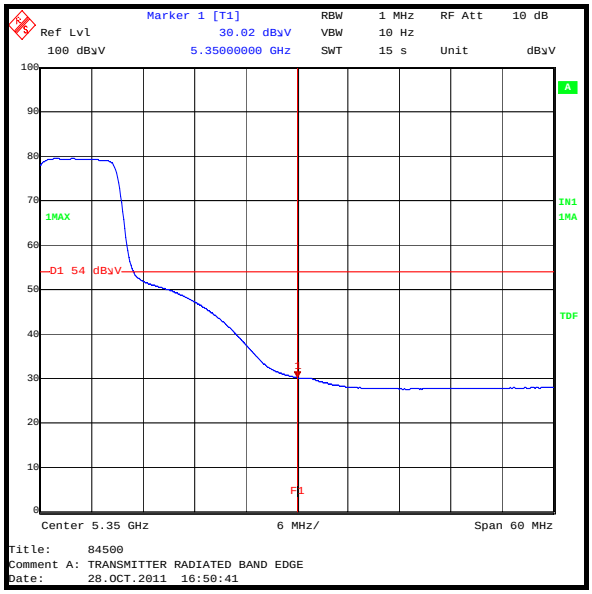
Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak/ Average	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
5260	BPSK	6.5	Average	26.9	54.0	27.1	Complied
5260	BPSK	6.5	Peak	40.0	74.0	34.0	Complied
5320	BPSK	6.5	Average	30.0	54.0	24.0	Complied
5320	BPSK	6.5	Peak	50.8	74.0	23.2	Complied
5260	QPSK	13	Average	28.4	54.0	25.6	Complied
5260	QPSK	13	Peak	39.5	74.0	34.5	Complied
5320	QPSK	13	Average	30.1	54.0	23.9	Complied
5320	QPSK	13	Peak	48.5	74.0	25.5	Complied
5260	QPSK	19.5	Average	26.9	54.0	27.1	Complied
5260	QPSK	19.5	Peak	40.1	74.0	33.9	Complied
5320	QPSK	19.5	Average	30.0	54.0	24.0	Complied
5320	QPSK	19.5	Peak	48.2	74.0	25.8	Complied
5260	16QAM	26	Average	26.9	54.0	27.1	Complied
5260	16QAM	26	Peak	41.4	74.0	32.6	Complied
5320	16QAM	26	Average	30.2	54.0	23.8	Complied
5320	16QAM	26	Peak	51.1	74.0	22.9	Complied
5260	16QAM	39	Average	26.9	54.0	27.1	Complied
5260	16QAM	39	Peak	39.6	74.0	34.4	Complied
5320	16QAM	39	Average	29.9	54.0	24.1	Complied
5320	16QAM	39	Peak	52.4	74.0	21.6	Complied
5260	64QAM	52	Average	27.0	54.0	27.0	Complied
5260	64QAM	52	Peak	38.7	74.0	35.3	Complied
5320	64QAM	52	Average	30.1	54.0	23.9	Complied
5320	64QAM	52	Peak	48.2	74.0	25.8	Complied
5260	64QAM	58.5	Average	26.9	54.0	27.1	Complied
5260	64QAM	58.5	Peak	40.3	74.0	33.7	Complied
5320	64QAM	58.5	Average	30.2	54.0	23.8	Complied
5320	64QAM	58.5	Peak	50.7	74.0	23.3	Complied
5260	64QAM	65	Average	26.9	54.0	27.1	Complied
5260	64QAM	65	Peak	39.8	74.0	34.2	Complied
5320	64QAM	65	Average	30.4	54.0	23.6	Complied
5320	64QAM	65	Peak	48.2	74.0	25.8	Complied

Transmitter Band Edge Radiated Emissions (continued)

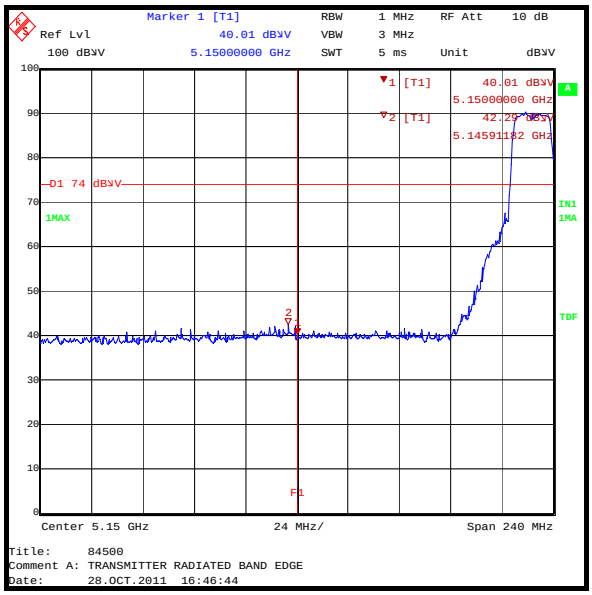
Plots - 802.11n – 5.260 to 5.320 GHz band



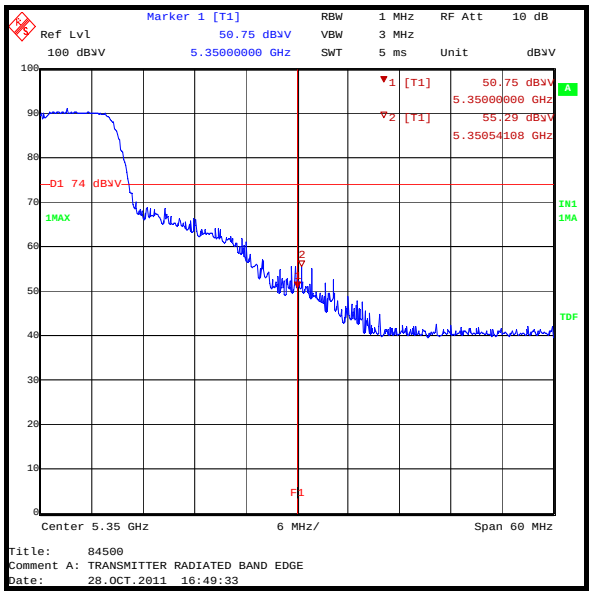
802.11n 5260 MHz 6.5 Mbps Average Plot



802.11n 5320 MHz 6.5 Mbps Average Plot



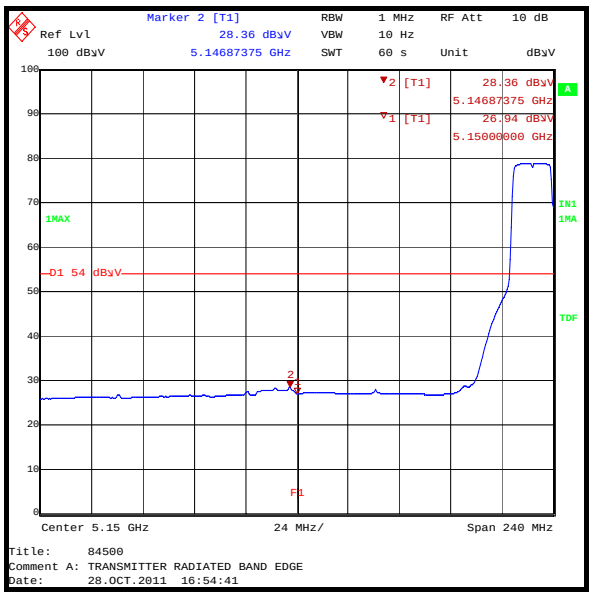
802.11n 5260 MHz 6.5 Mbps Peak Plot



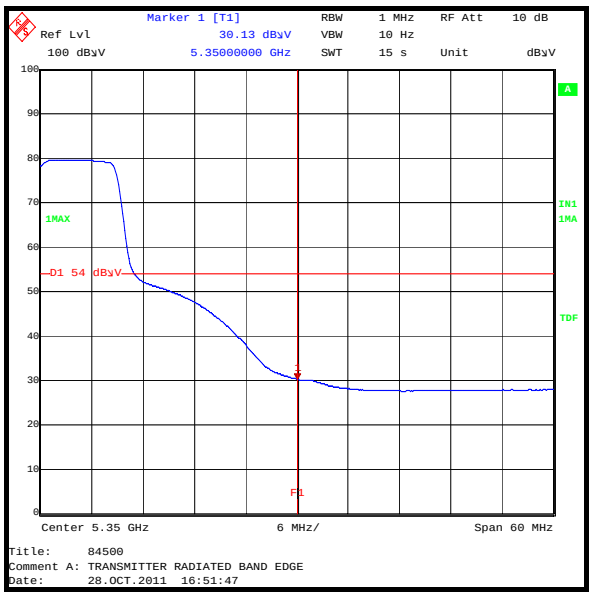
802.11n 5320 MHz 6.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

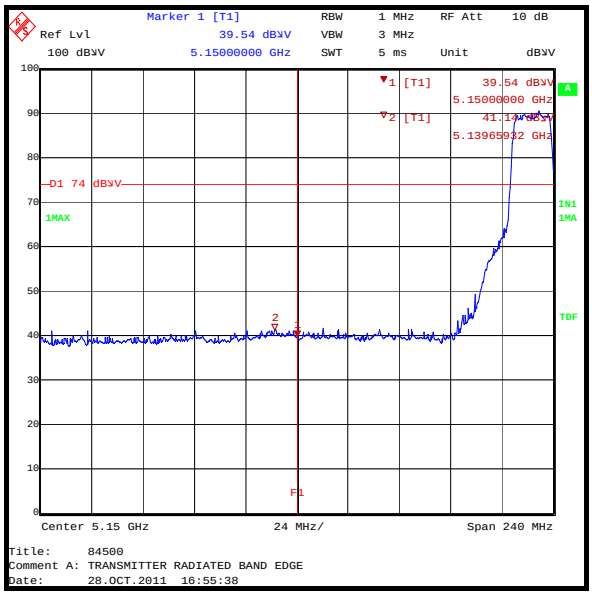
Plots - 802.11n – 5.260 to 5.320 GHz band



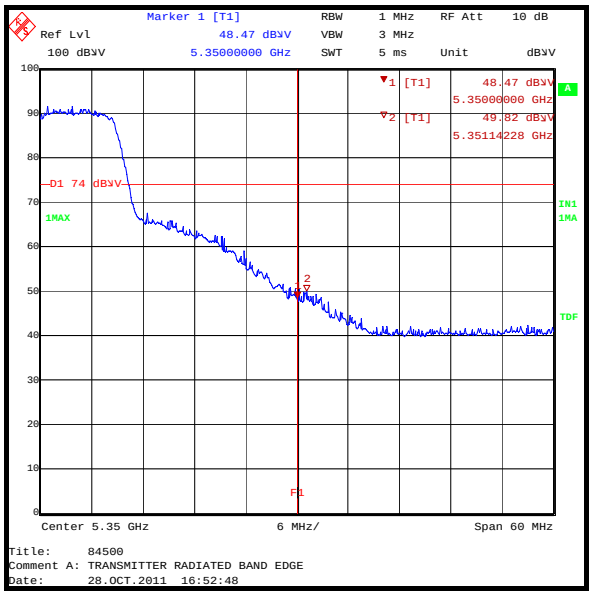
802.11n 5260 MHz 13 Mbps Average Plot



802.11n 5320 MHz 13 Mbps Average Plot



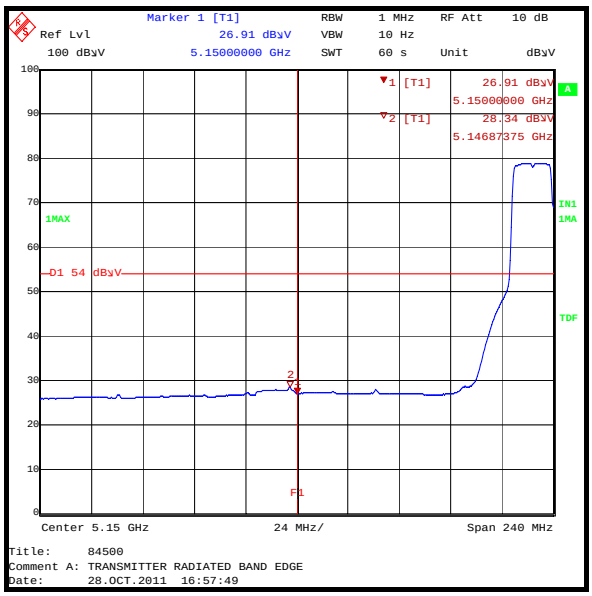
802.11n 5260 MHz 13 Mbps Peak Plot



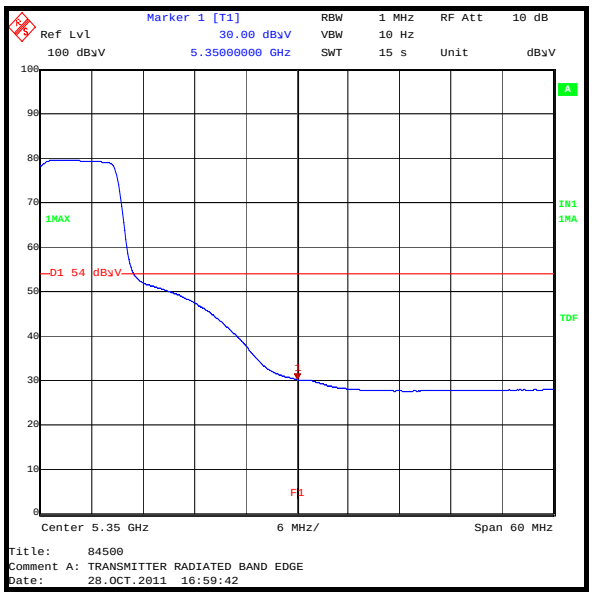
802.11n 5320 MHz 13 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

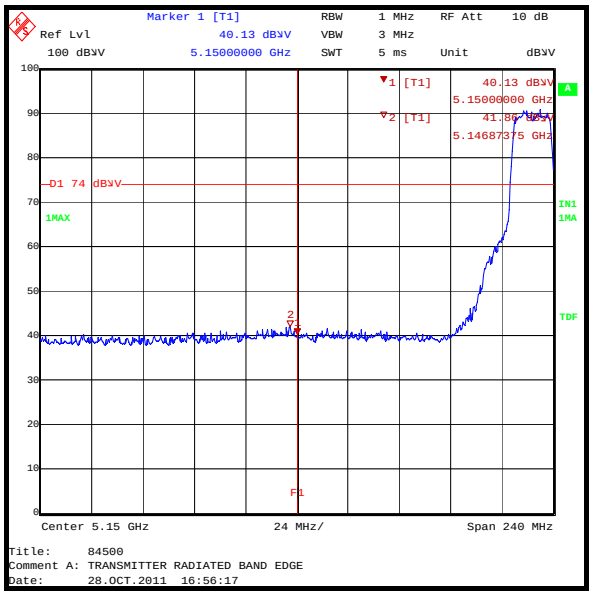
Plots - 802.11n – 5.260 to 5.320 GHz band



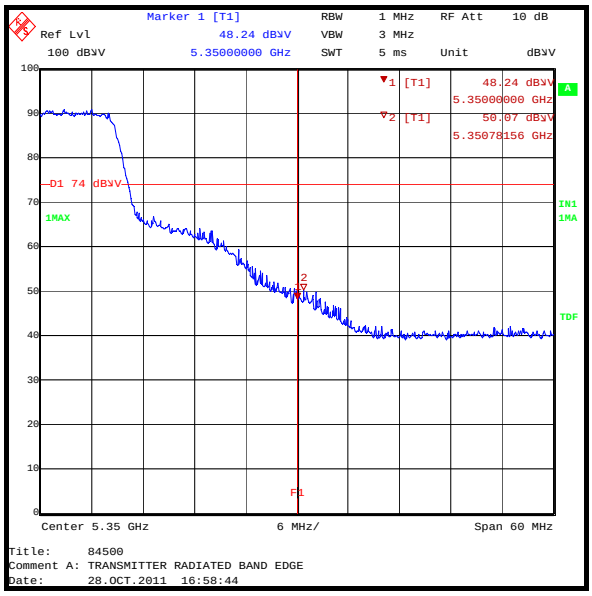
802.11n 5260 MHz 19.5 Mbps Average Plot



802.11n 5320 MHz 19.5 Mbps Average Plot



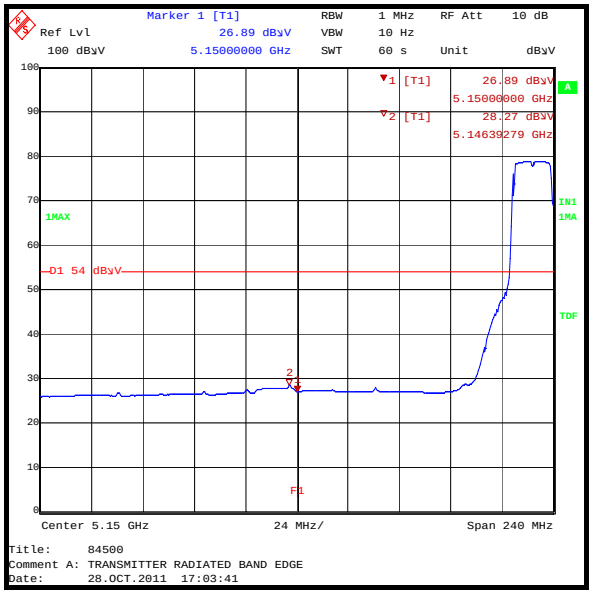
802.11n 5260 MHz 19.5 Mbps Peak Plot



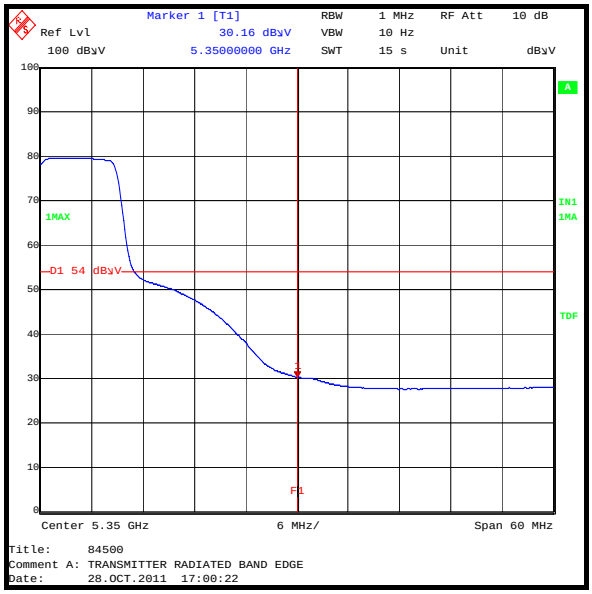
802.11n 5320 MHz 19.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

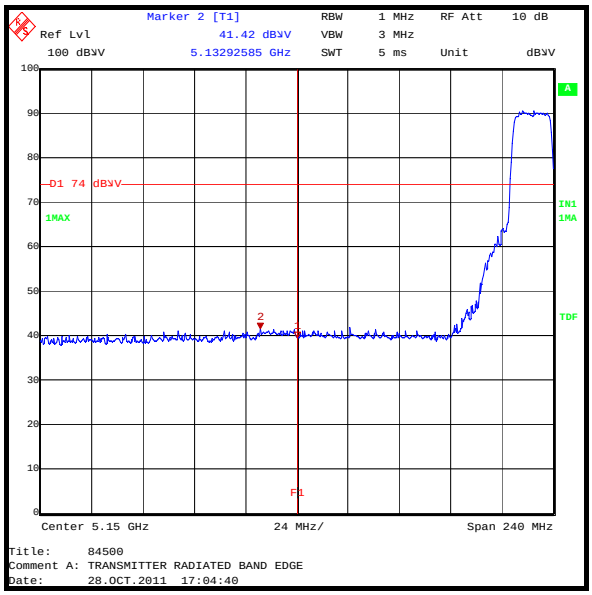
Plots - 802.11n – 5.260 to 5.320 GHz band



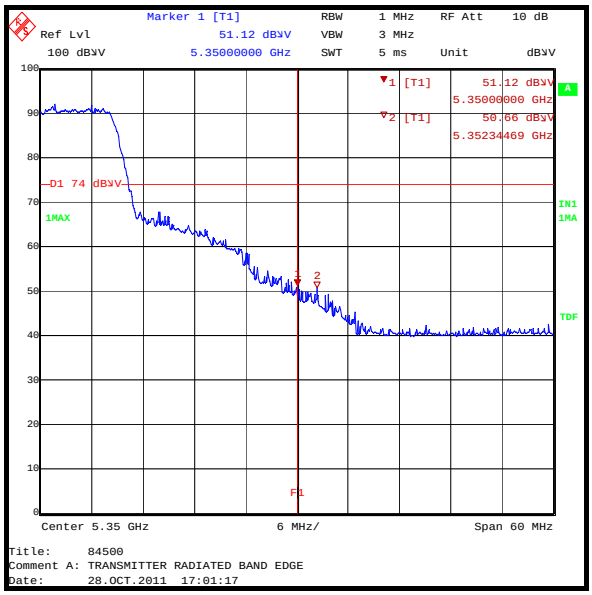
802.11n 5260 MHz 26 Mbps Average Plot



802.11n 5320 MHz 26 Mbps Average Plot



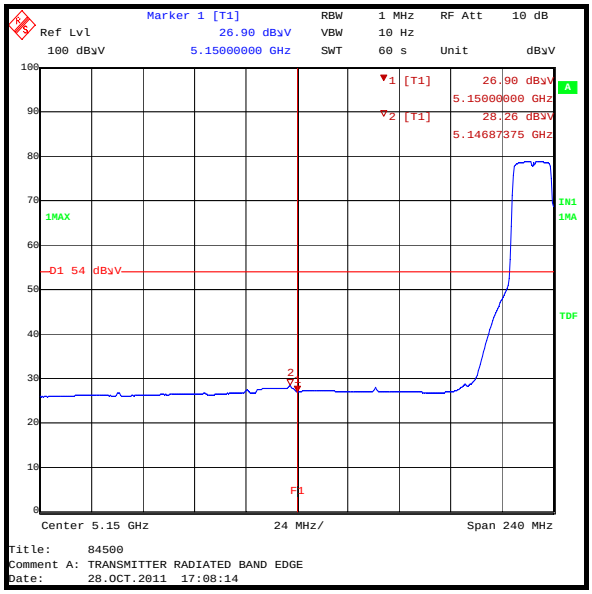
802.11n 5260 MHz 26 Mbps Peak Plot



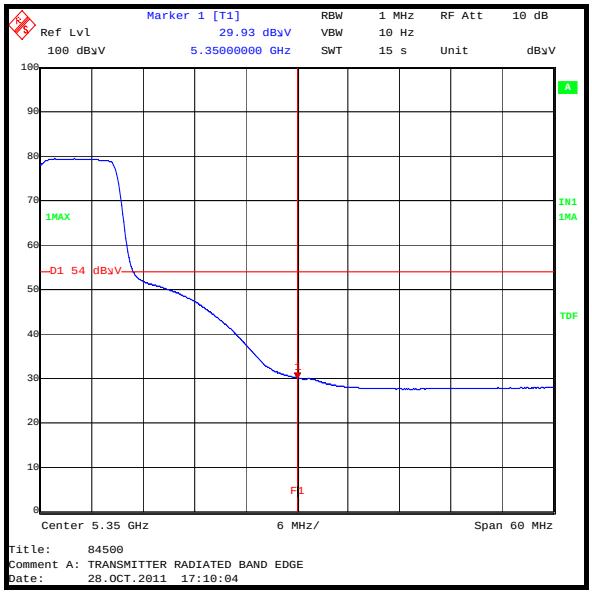
802.11n 5320 MHz 26 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

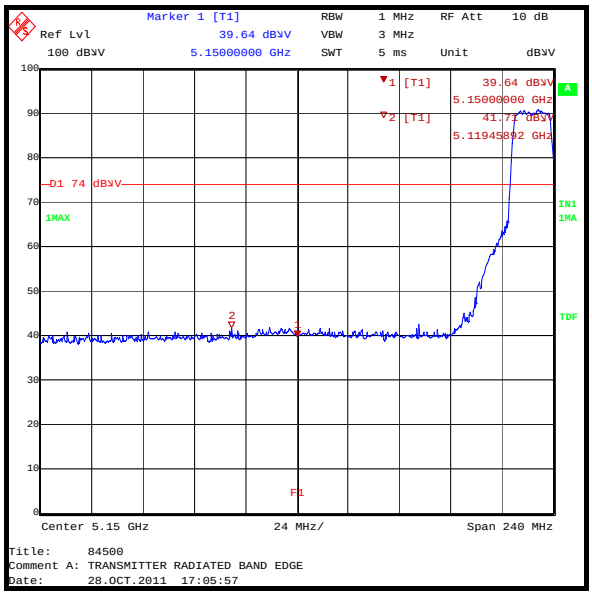
Plots - 802.11n – 5.260 to 5.320 GHz band



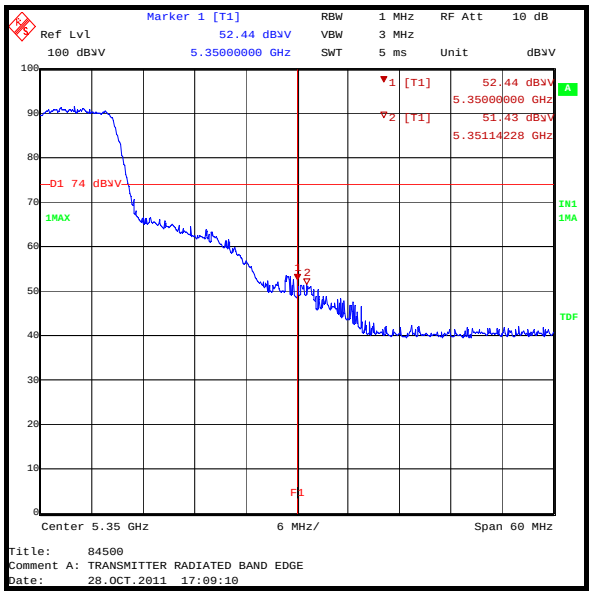
802.11n 5260 MHz 39 Mbps Average Plot



802.11n 5320 MHz 39 Mbps Average Plot



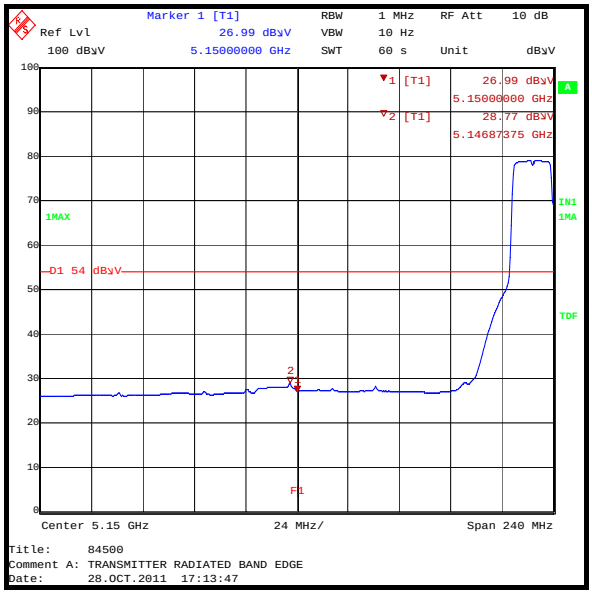
802.11n 5260 MHz 39 Mbps Peak Plot



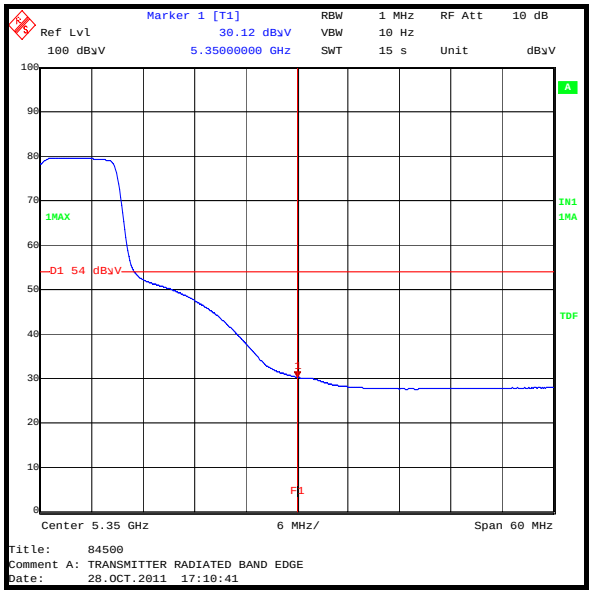
802.11n 5320 MHz 39 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

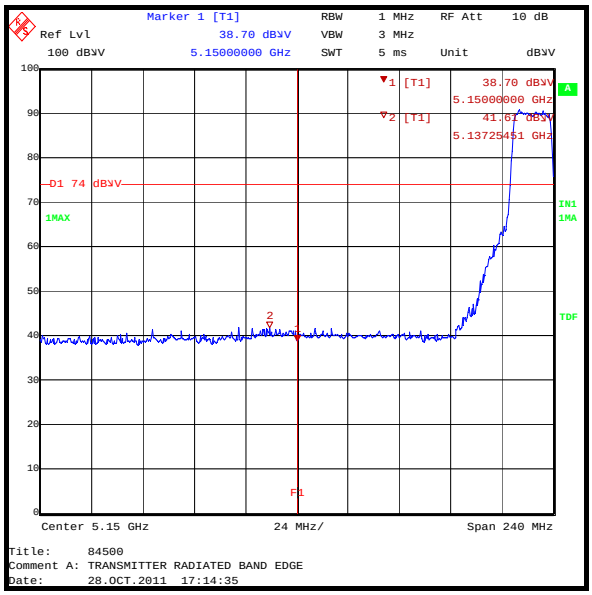
Plots - 802.11n – 5.260 to 5.320 GHz band



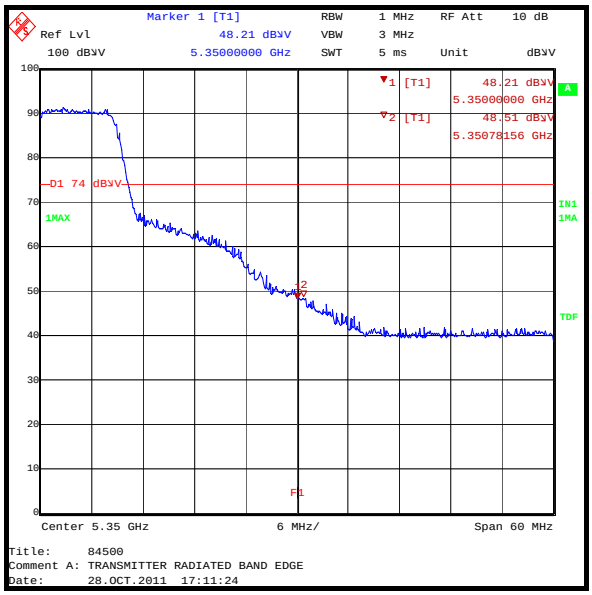
802.11n 5260 MHz 52 Mbps Average Plot



802.11n 5320 MHz 52 Mbps Average Plot



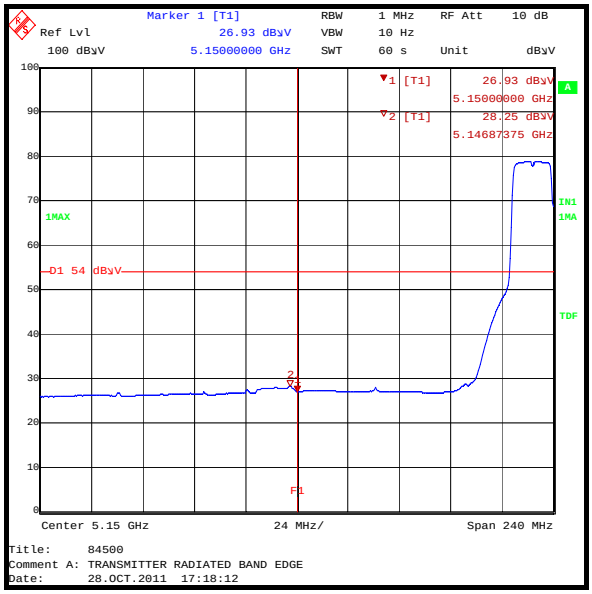
802.11n 5260 MHz 52 Mbps Peak Plot



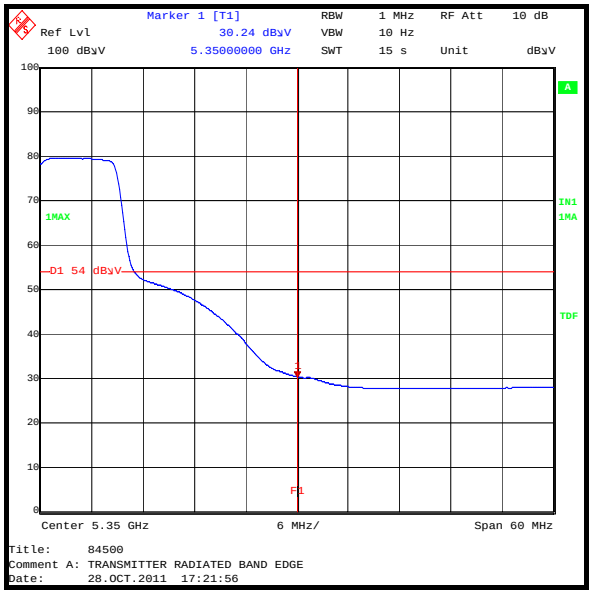
802.11n 5320 MHz 52 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

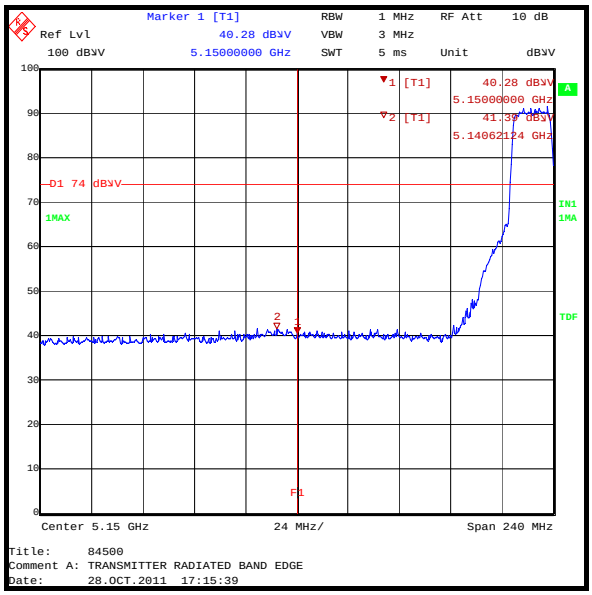
Plots - 802.11n – 5.260 to 5.320 GHz band



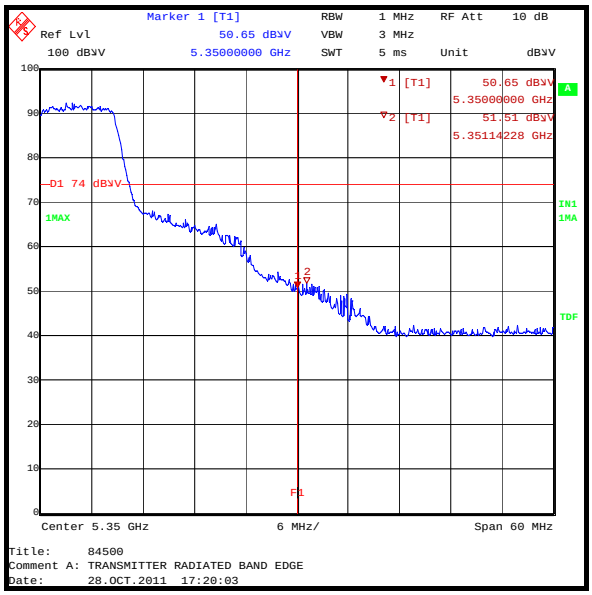
802.11n 5260 MHz 58.5 Mbps Average Plot



802.11n 5320 MHz 58.5 Mbps Average Plot



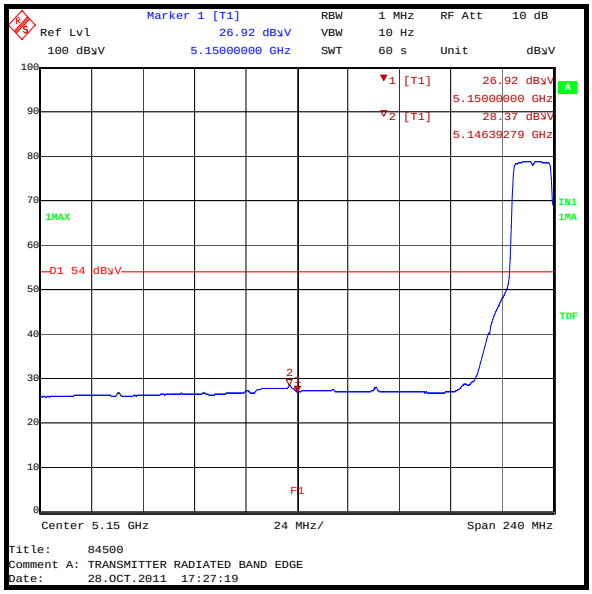
802.11n 5260 MHz 58.5 Mbps Peak Plot



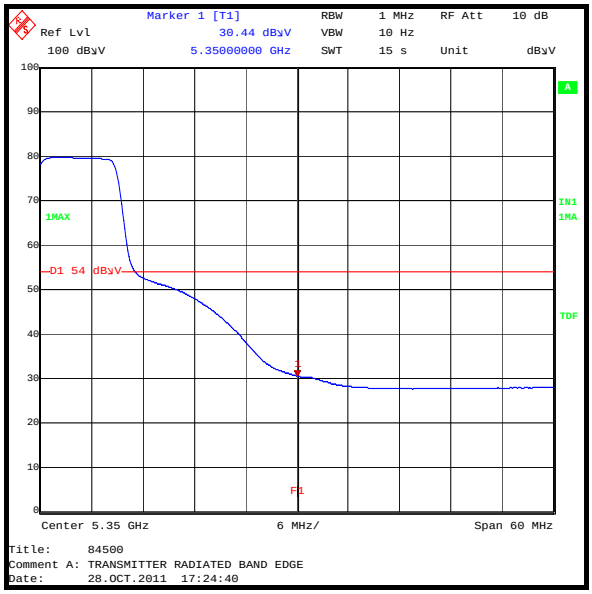
802.11n 5320 MHz 58.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

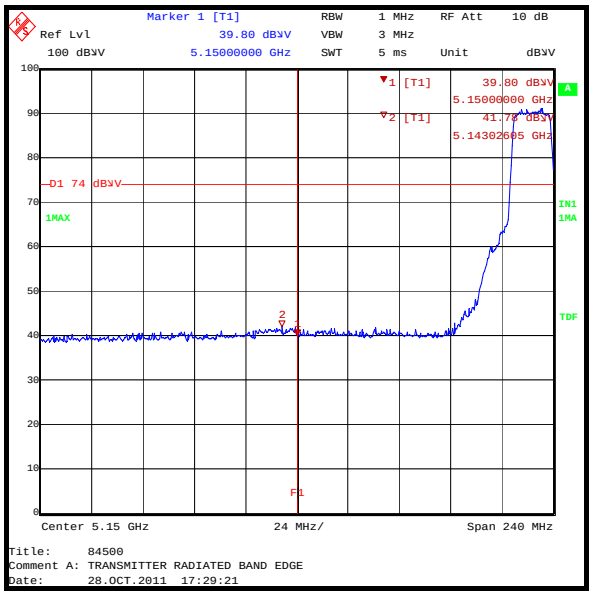
Plots - 802.11n – 5.260 to 5.320 GHz band



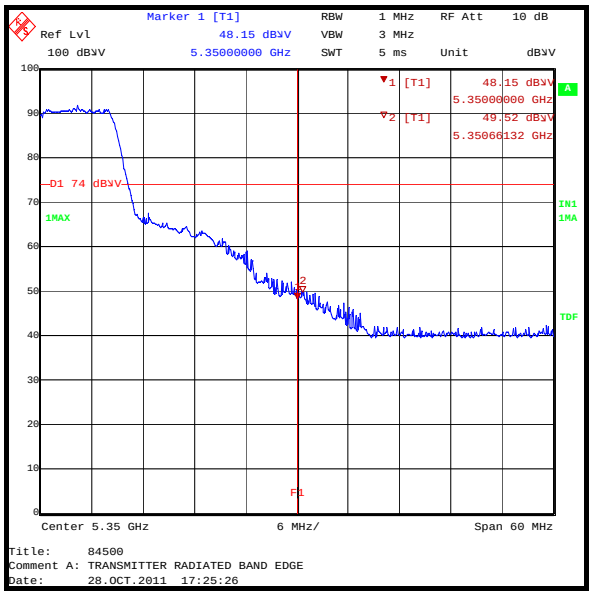
802.11n 5260 MHz 65 Mbps Average Plot



802.11n 5320 MHz 65 Mbps Average Plot



802.11n 5260 MHz 65 Mbps Peak Plot



802.11n 5320 MHz 65 Mbps Peak Plot

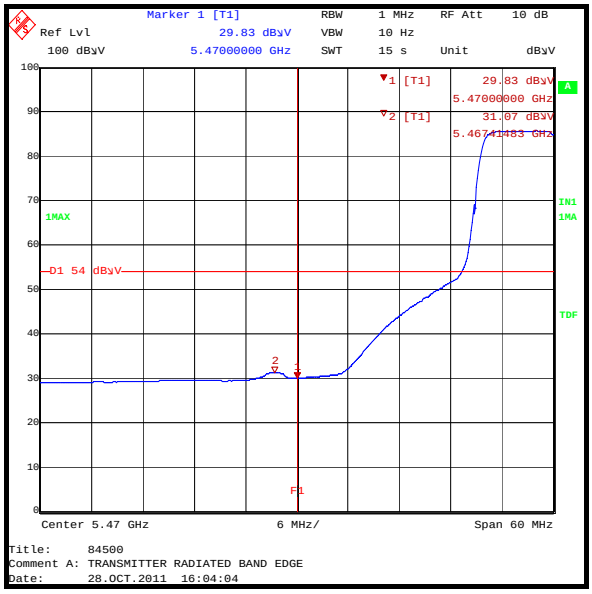
Transmitter Band Edge Radiated Emissions (continued)

Results - 802.11a - 5.500 to 5.700 GHz band

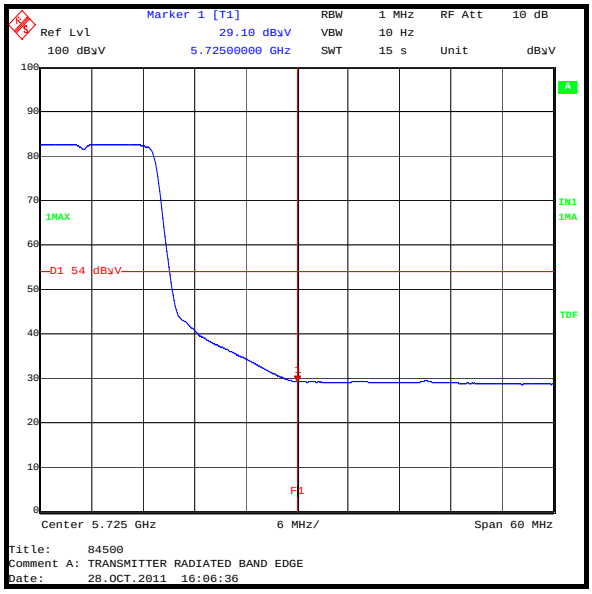
Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak/ Average	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
5500	BPSK	6	Average	29.8	54.0	24.2	Complied
5500	BPSK	6	Peak	43.4	74.0	30.6	Complied
5700	BPSK	6	Average	29.1	54.0	24.9	Complied
5700	BPSK	6	Peak	43.0	74.0	31.0	Complied
5500	BPSK	9	Average	29.9	54.0	24.1	Complied
5500	BPSK	9	Peak	45.2	74.0	28.8	Complied
5700	BPSK	9	Average	29.2	54.0	24.8	Complied
5700	BPSK	9	Peak	41.7	74.0	32.3	Complied
5500	QPSK	12	Average	29.9	54.0	24.1	Complied
5500	QPSK	12	Peak	42.4	74.0	31.6	Complied
5700	QPSK	12	Average	29.1	54.0	24.9	Complied
5700	QPSK	12	Peak	43.0	74.0	31.0	Complied
5500	QPSK	18	Average	29.9	54.0	24.1	Complied
5500	QPSK	18	Peak	44.5	74.0	29.5	Complied
5700	QPSK	18	Average	29.2	54.0	24.8	Complied
5700	QPSK	18	Peak	41.3	74.0	32.7	Complied
5500	16QAM	24	Average	29.8	54.0	24.2	Complied
5500	16QAM	24	Peak	44.1	74.0	29.9	Complied
5700	16QAM	24	Average	29.1	54.0	24.9	Complied
5700	16QAM	24	Peak	42.1	74.0	31.9	Complied
5500	16QAM	36	Average	29.8	54.0	24.2	Complied
5500	16QAM	36	Peak	42.7	74.0	31.3	Complied
5700	16QAM	36	Average	29.1	54.0	24.9	Complied
5700	16QAM	36	Peak	42.2	74.0	31.8	Complied
5500	64QAM	48	Average	29.8	54.0	24.2	Complied
5500	64QAM	48	Peak	42.3	74.0	31.7	Complied
5700	64QAM	48	Average	29.1	54.0	24.9	Complied
5700	64QAM	48	Peak	42.1	74.0	31.9	Complied
5500	64QAM	54	Average	29.9	54.0	24.1	Complied
5500	64QAM	54	Peak	45.1	74.0	28.9	Complied
5700	64QAM	54	Average	29.1	54.0	24.9	Complied
5700	64QAM	54	Peak	43.5	74.0	30.5	Complied

Transmitter Band Edge Radiated Emissions (continued)

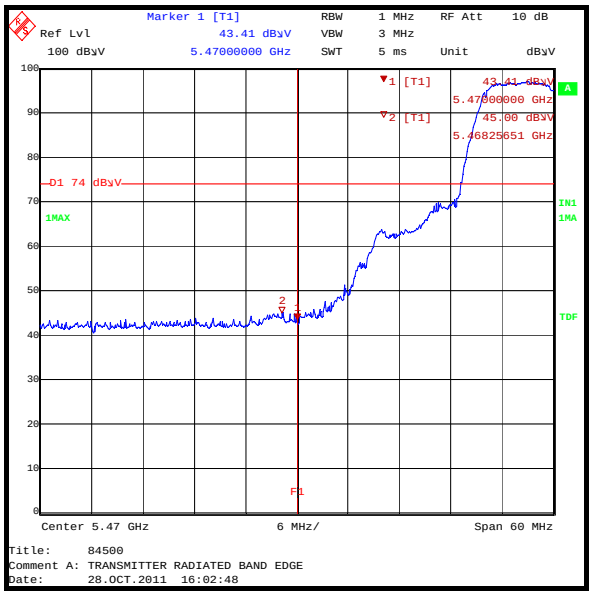
Plots - 802.11a – 5.500 to 5.700 GHz band



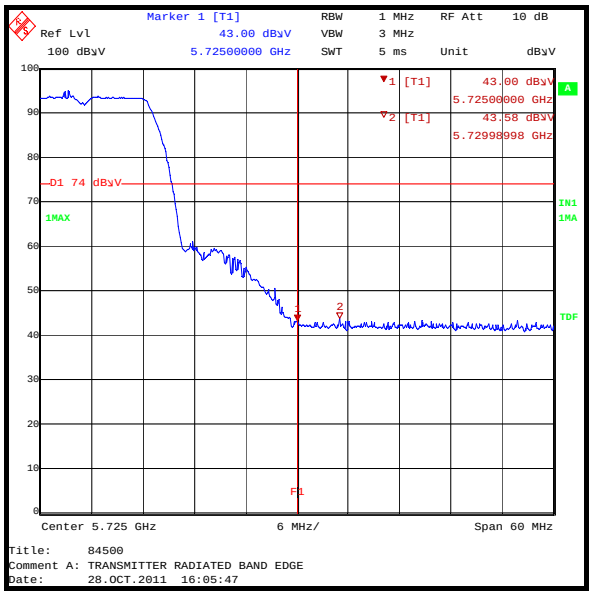
802.11a 5500 MHz 6 Mbps Average Plot



802.11a 5700 MHz 6 Mbps Average Plot



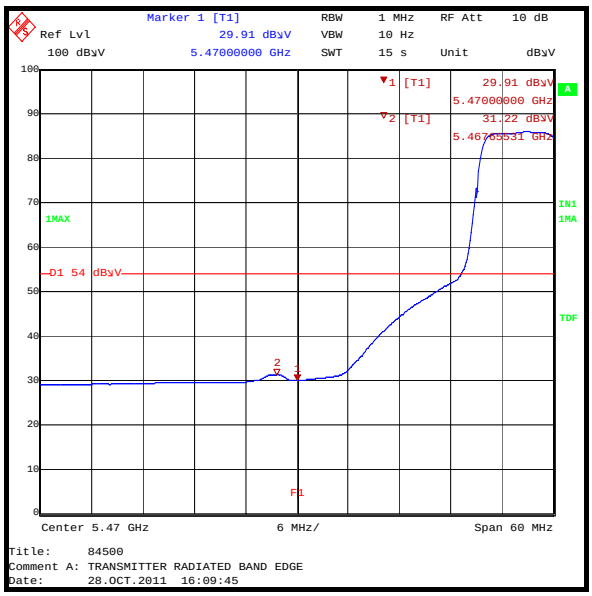
802.11a 5500 MHz 6 Mbps Peak Plot



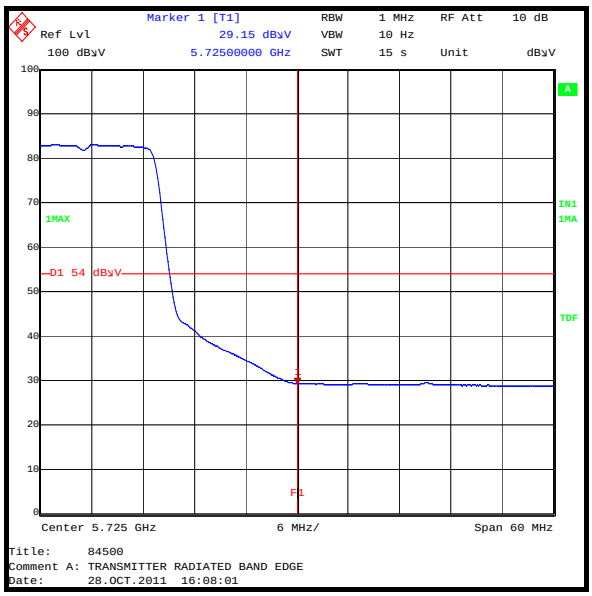
802.11a 5700 MHz 6 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

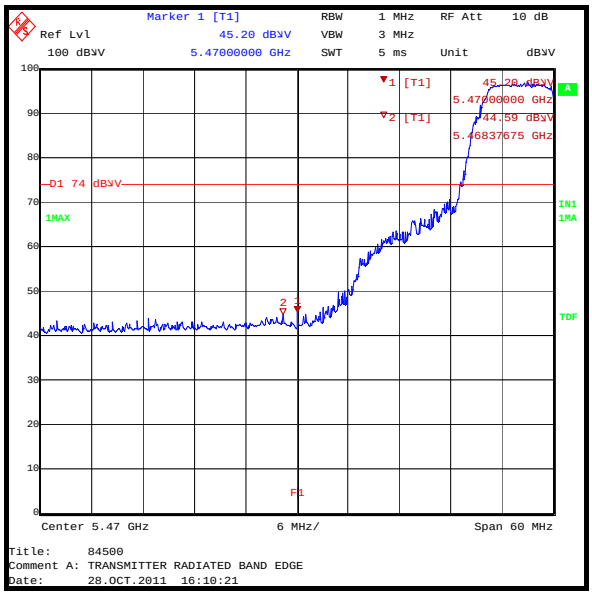
Plots - 802.11a – 5.500 to 5.700 GHz band



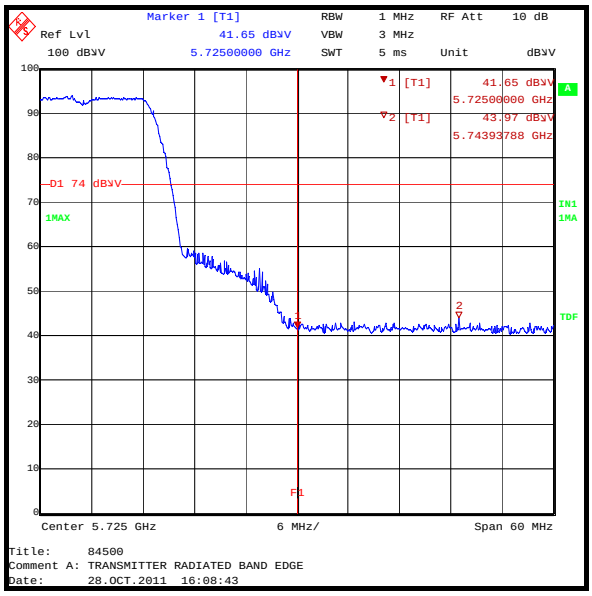
802.11a 5500 MHz 9 Mbps Average Plot



802.11a 5700 MHz 9 Mbps Average Plot



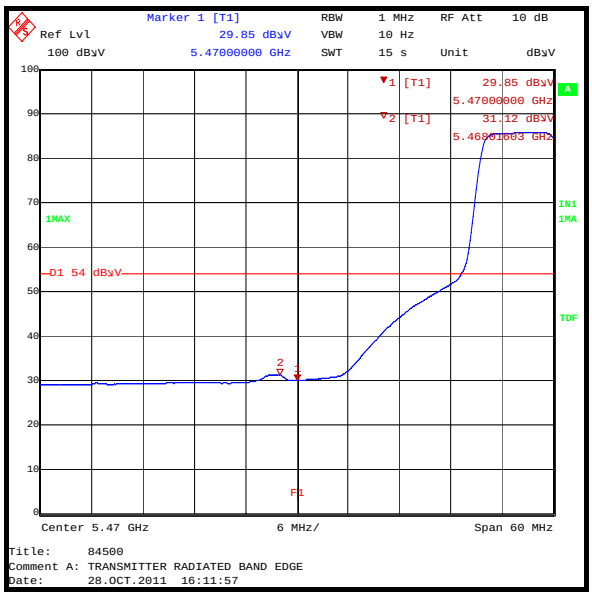
802.11a 5500 MHz 9 Mbps Peak Plot



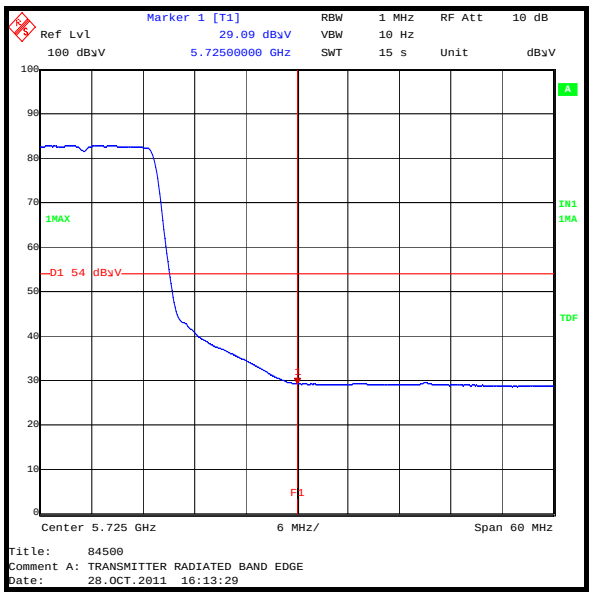
802.11a 5700 MHz 9 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

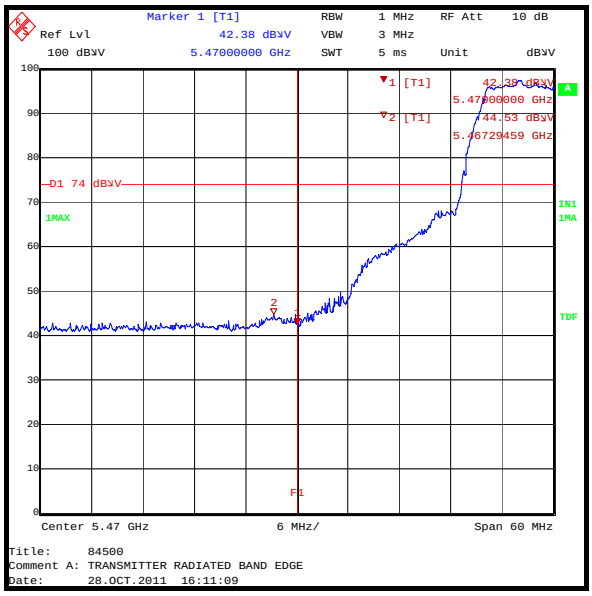
Plots - 802.11a – 5.500 to 5.700 GHz band



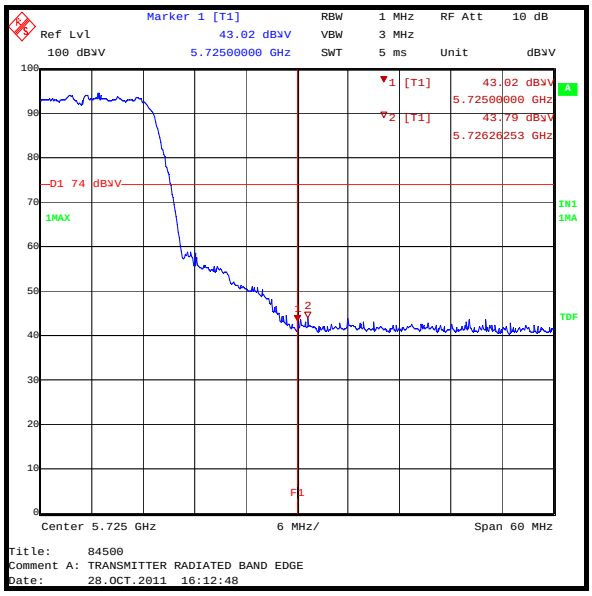
802.11a 5500 MHz 12 Mbps Average Plot



802.11a 5700 MHz 12 Mbps Average Plot



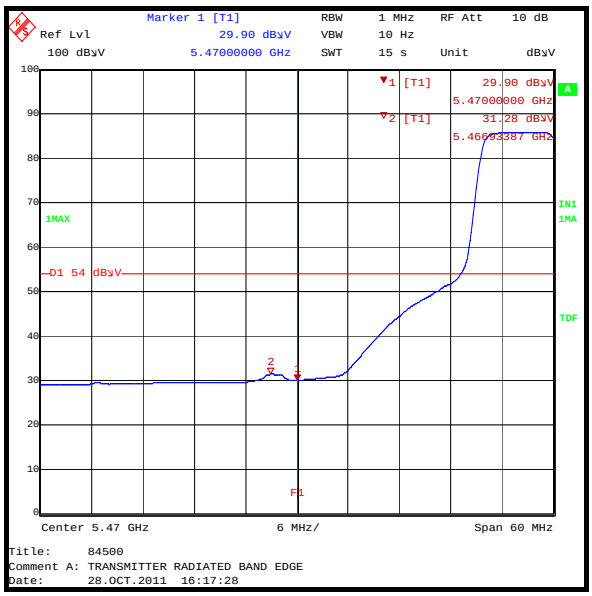
802.11a 5500 MHz 12 Mbps Peak Plot



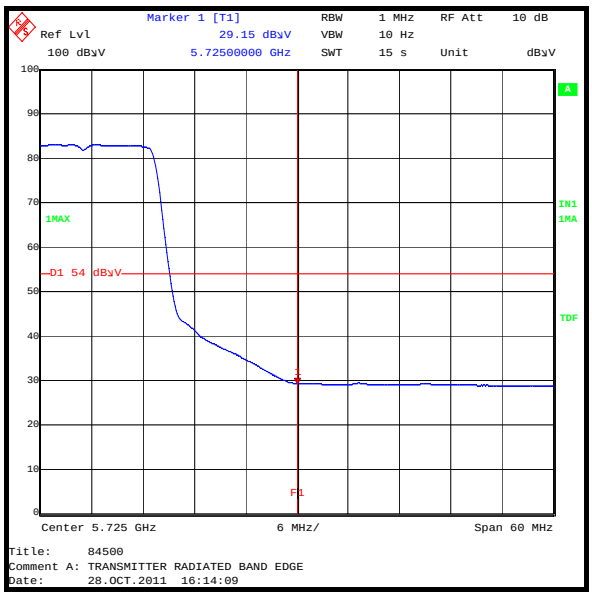
802.11a 5700 MHz 12 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

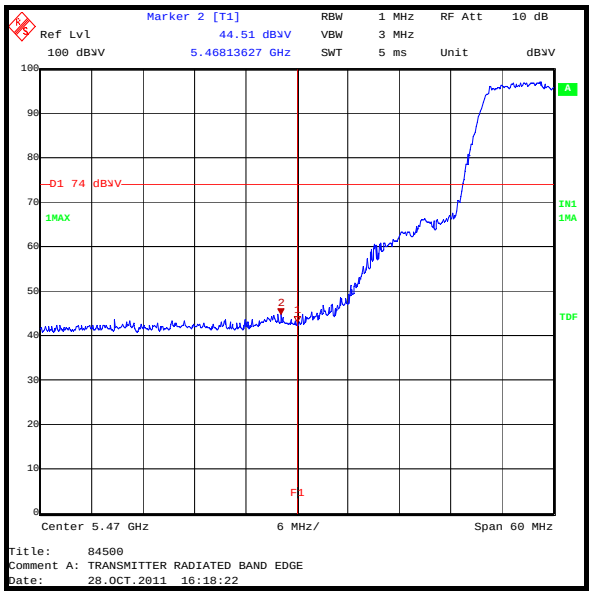
Plots - 802.11a – 5.500 to 5.700 GHz band



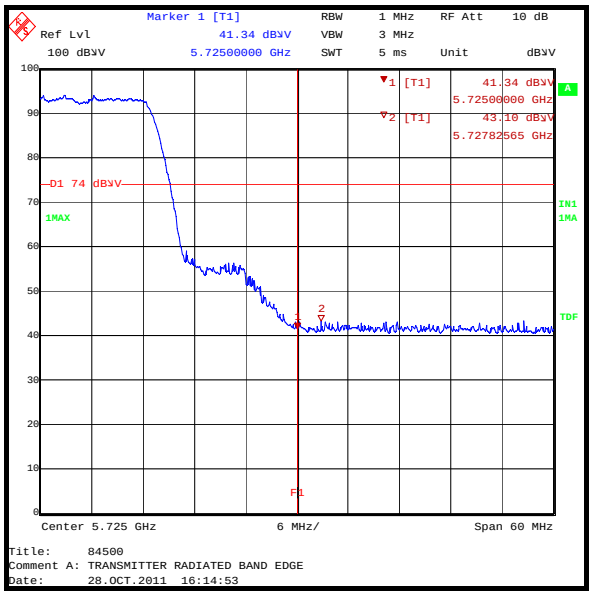
802.11a 5500 MHz 18 Mbps Average Plot



802.11a 5700 MHz 18 Mbps Average Plot



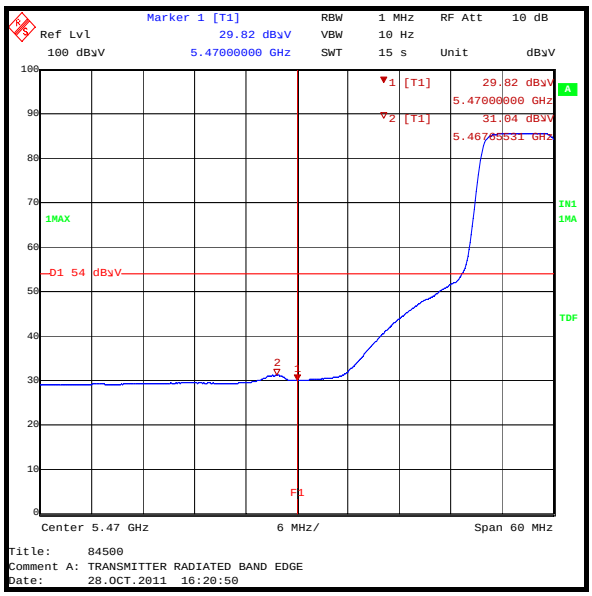
802.11a 5500 MHz 18 Mbps Peak Plot



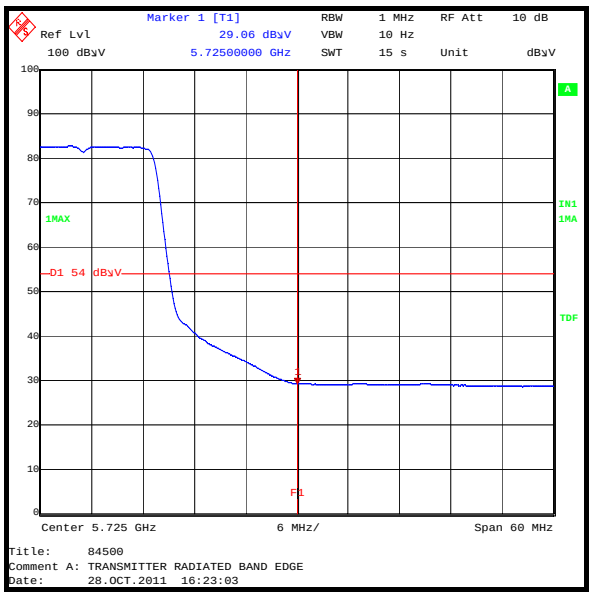
802.11a 5700 MHz 18 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

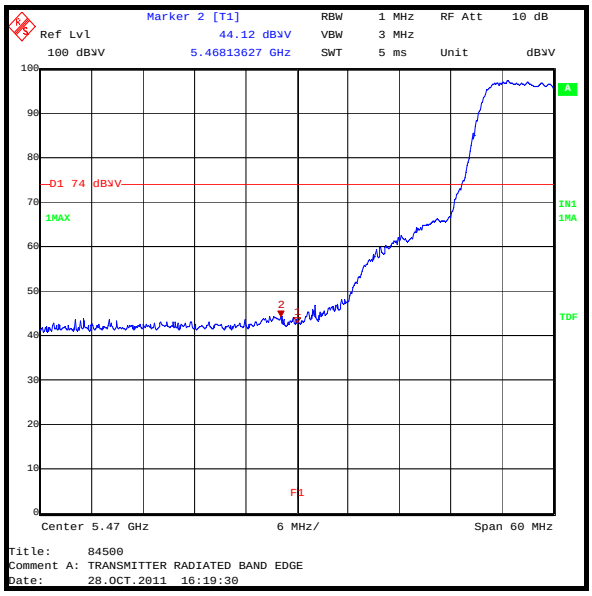
Plots - 802.11a – 5.500 to 5.700 GHz band



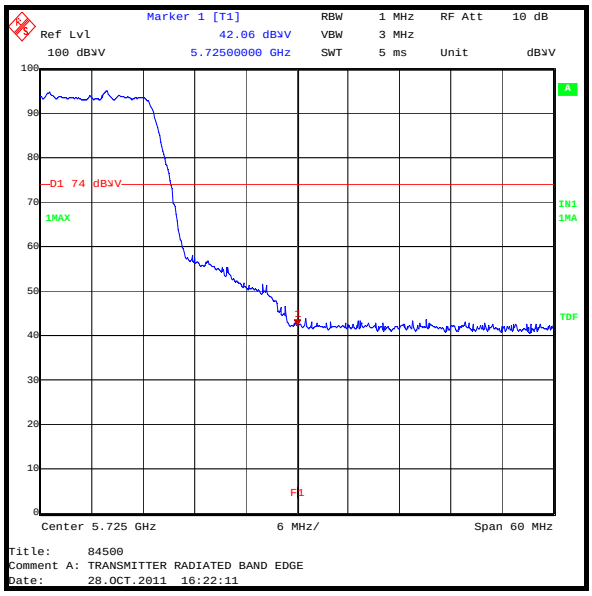
802.11a 5500 MHz 24 Mbps Average Plot



802.11a 5700 MHz 24 Mbps Average Plot



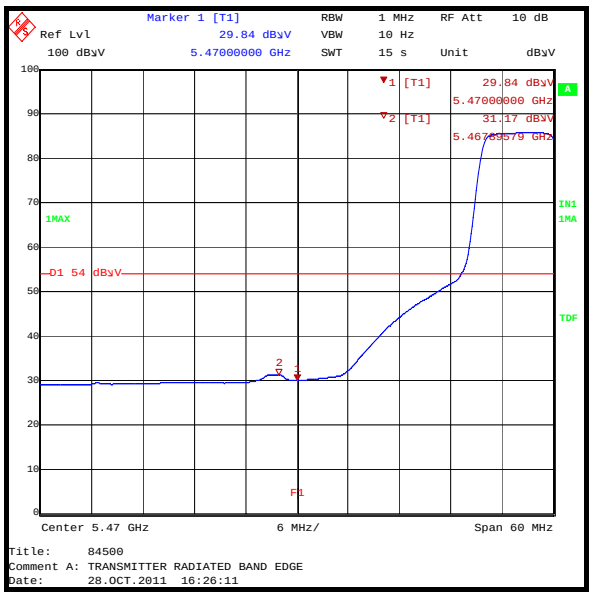
802.11a 5500 MHz 24 Mbps Peak Plot



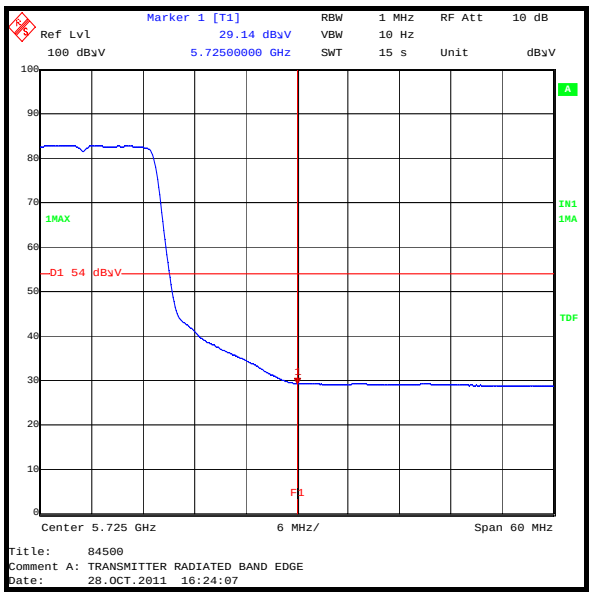
802.11a 5700 MHz 24 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

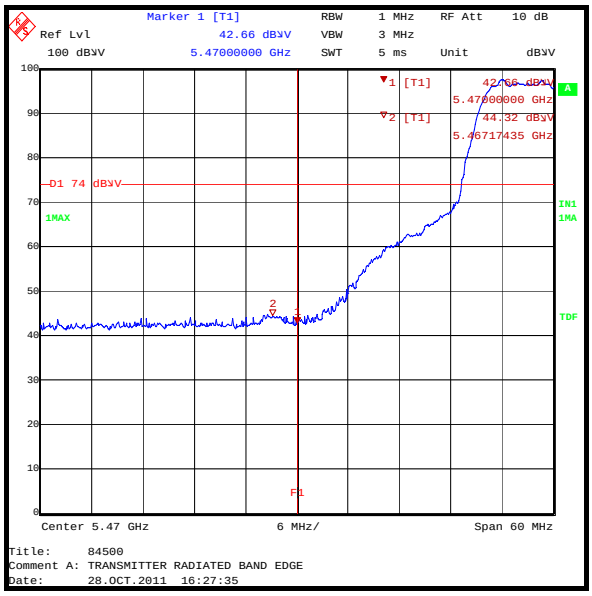
Plots - 802.11a – 5.500 to 5.700 GHz band



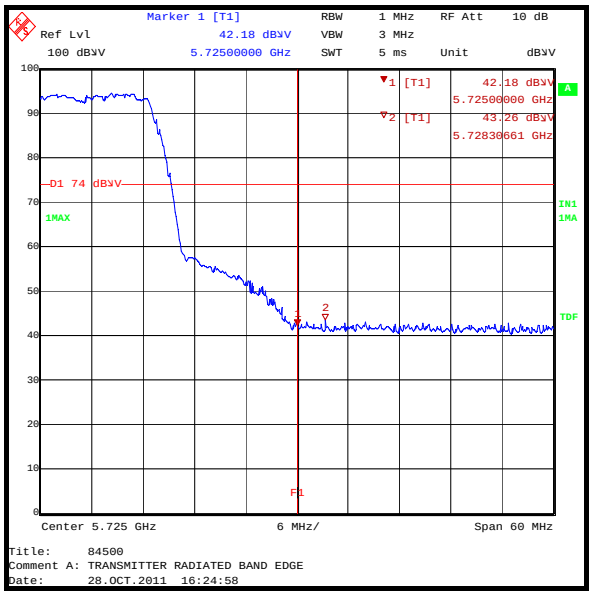
802.11a 5500 MHz 36 Mbps Average Plot



802.11a 5700 MHz 36 Mbps Average Plot



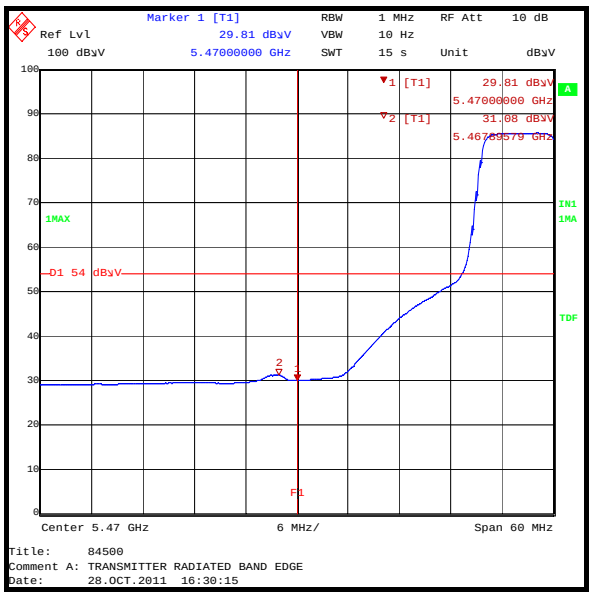
802.11a 5500 MHz 36 Mbps Peak Plot



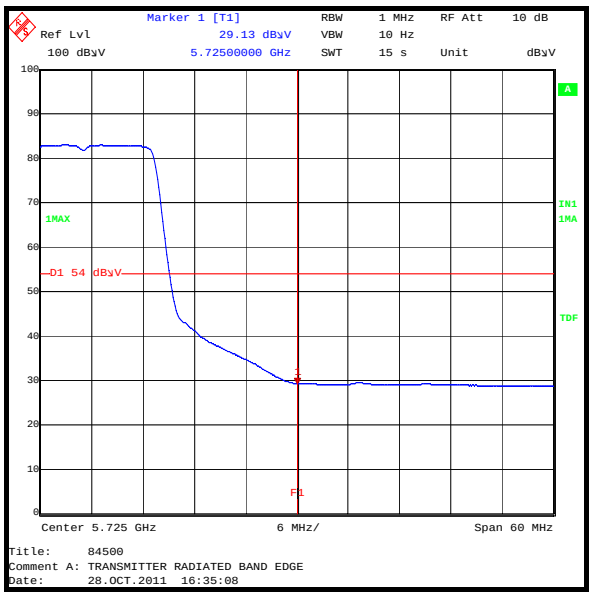
802.11a 5700 MHz 36 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

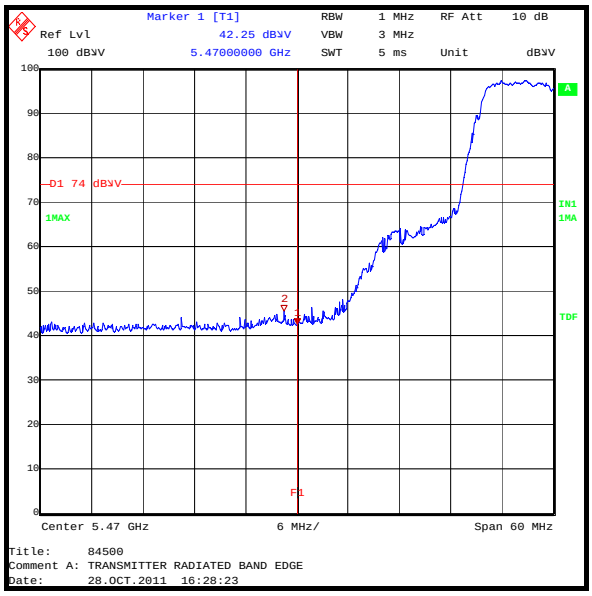
Plots - 802.11a – 5.500 to 5.700 GHz band



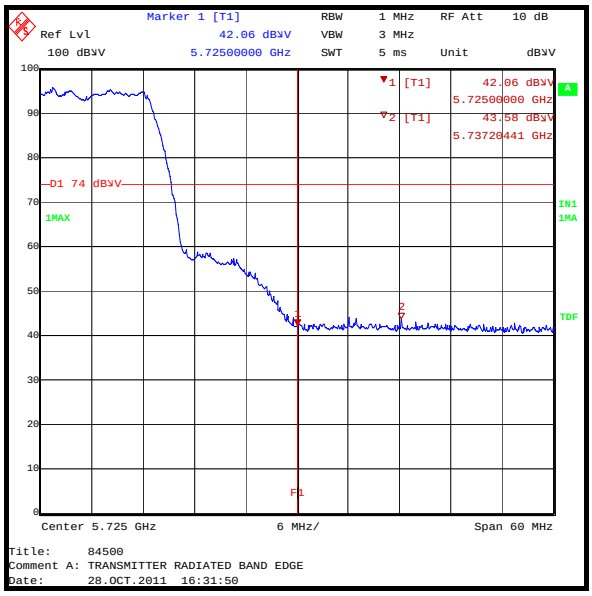
802.11a 5500 MHz 48 Mbps Average Plot



802.11a 5700 MHz 48 Mbps Average Plot



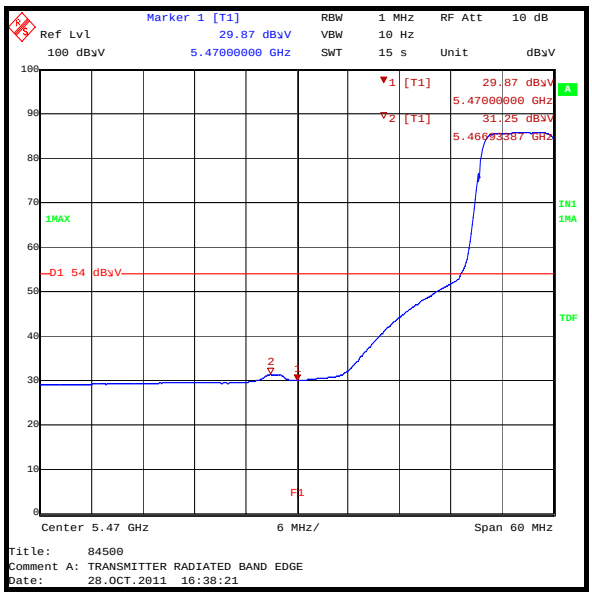
802.11a 5500 MHz 48 Mbps Peak Plot



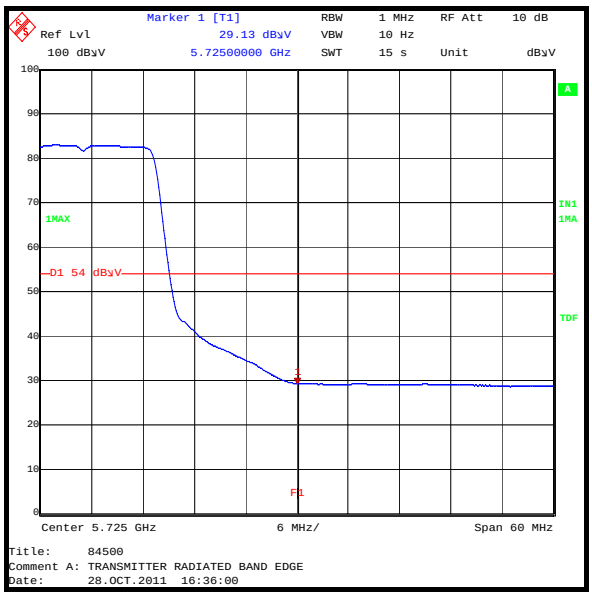
802.11a 5700 MHz 48 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

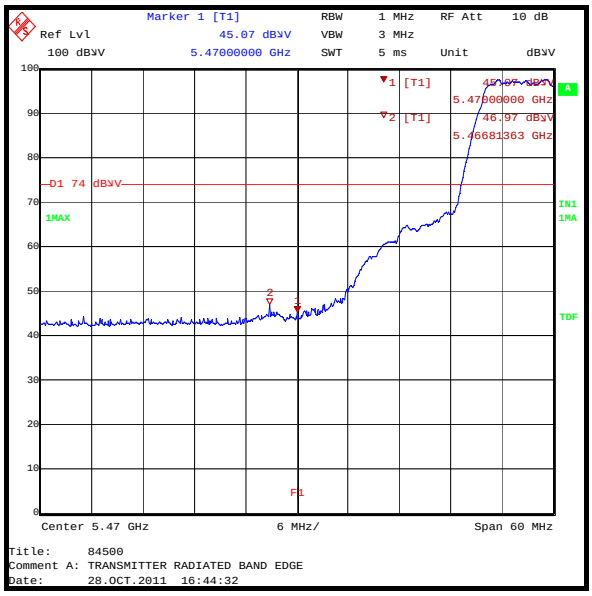
Plots - 802.11a – 5.500 to 5.700 GHz band



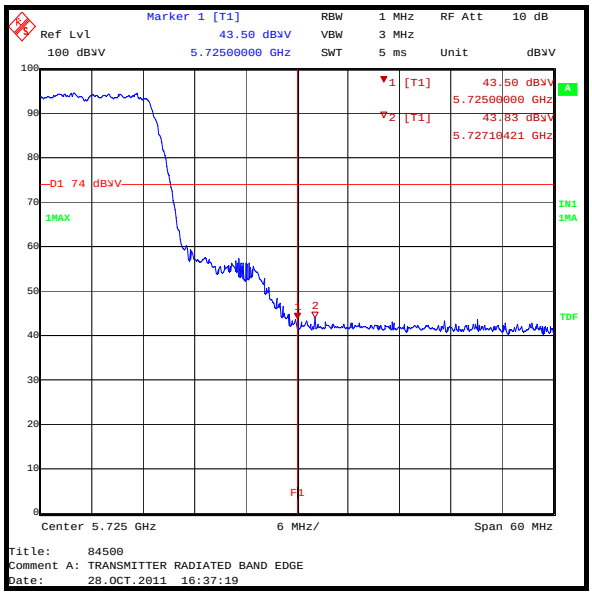
802.11a 5500 MHz 54 Mbps Average Plot



802.11a 5700 MHz 54 Mbps Average Plot



802.11a 5500 MHz 54 Mbps Peak



802.11a 5700 MHz 54 Mbps Peak

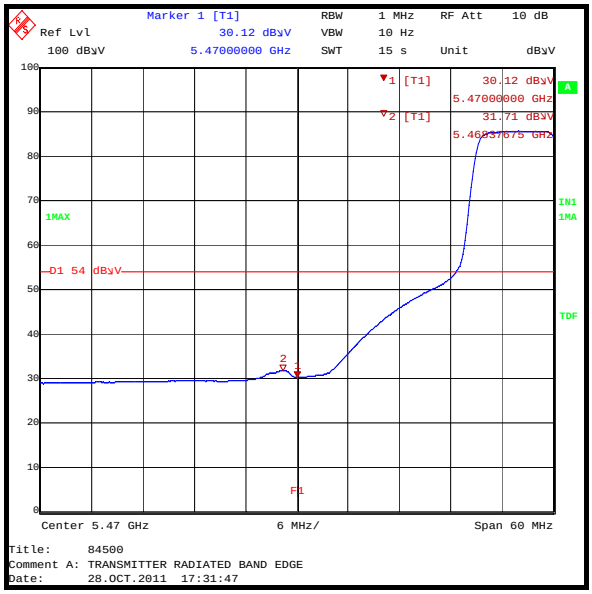
Transmitter Band Edge Radiated Emissions (continued)

Results - 802.11n – 5.500 to 5.700 GHz band

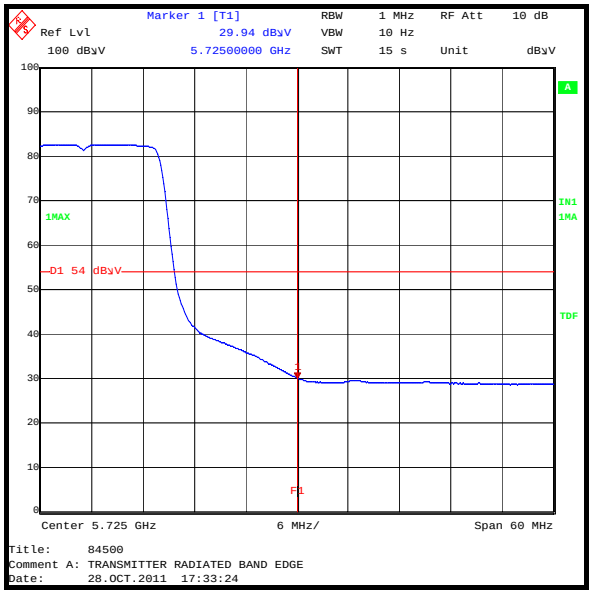
Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Detector	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
5500	BPSK	6.5	Average	30.1	54.0	23.9	Complied
5500	BPSK	6.5	Peak	45.5	74.0	28.5	Complied
5700	BPSK	6.5	Average	29.9	54.0	24.1	Complied
5700	BPSK	6.5	Peak	45.3	74.0	28.7	Complied
5500	QPSK	13.0	Average	30.2	54.0	23.8	Complied
5500	QPSK	13.0	Peak	42.9	74.0	31.1	Complied
5700	QPSK	13.0	Average	30.0	54.0	24.0	Complied
5700	QPSK	13.0	Peak	42.3	74.0	31.7	Complied
5500	QPSK	19.5	Average	30.1	54.0	23.9	Complied
5500	QPSK	19.5	Peak	43.6	74.0	30.4	Complied
5700	QPSK	19.5	Average	30.0	54.0	24.0	Complied
5700	QPSK	19.5	Peak	44.7	74.0	29.3	Complied
5500	16QAM	26.0	Average	30.2	54.0	23.8	Complied
5500	16QAM	26.0	Peak	43.9	74.0	30.1	Complied
5700	16QAM	26.0	Average	30.0	54.0	24.0	Complied
5700	16QAM	26.0	Peak	44.5	74.0	29.5	Complied
5500	16QAM	39.0	Average	30.1	54.0	23.9	Complied
5500	16QAM	39.0	Peak	43.1	74.0	30.9	Complied
5700	16QAM	39.0	Average	29.8	54.0	24.2	Complied
5700	16QAM	39.0	Peak	44.7	74.0	29.3	Complied
5500	64QAM	52.0	Average	30.5	54.0	23.5	Complied
5500	64QAM	52.0	Peak	43.0	74.0	31.0	Complied
5700	64QAM	52.0	Average	29.9	54.0	24.1	Complied
5700	64QAM	52.0	Peak	44.1	74.0	29.9	Complied
5500	64QAM	58.5	Average	30.2	54.0	23.8	Complied
5500	64QAM	58.5	Peak	44.2	74.0	29.8	Complied
5700	64QAM	58.5	Average	30.1	54.0	23.9	Complied
5700	64QAM	58.5	Peak	45.0	74.0	29.0	Complied
5500	64QAM	65.0	Average	30.2	54.0	23.8	Complied
5500	64QAM	65.0	Peak	44.3	74.0	29.7	Complied
5700	64QAM	65.0	Average	30.2	54.0	23.8	Complied
5700	64QAM	65.0	Peak	45.4	74.0	28.6	Complied

Transmitter Band Edge Radiated Emissions (continued)

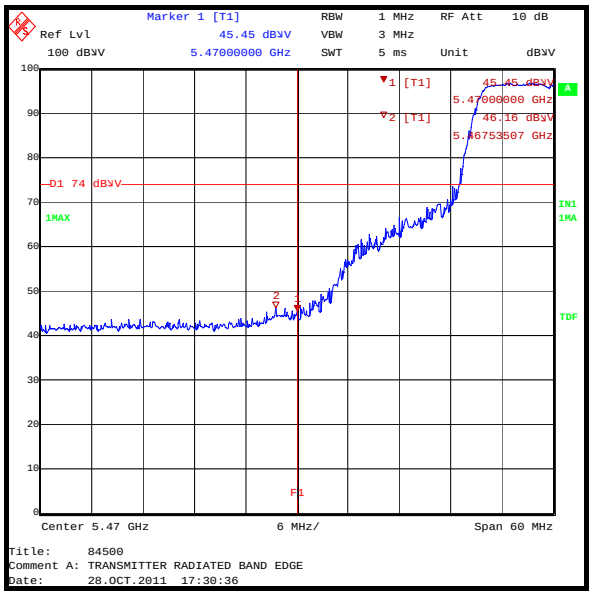
Plots - 802.11n – 5.500 to 5.700 GHz band



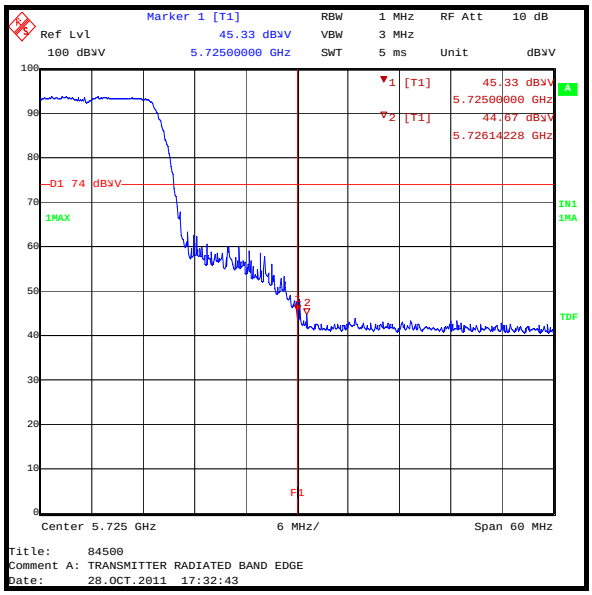
802.11n 5500 MHz 6.5 Mbps Average Plot



802.11n 5500 MHz 6.5 Mbps Average Plot



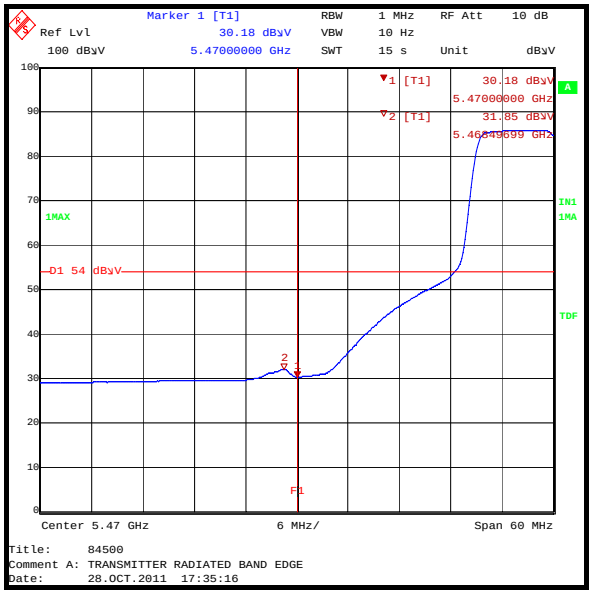
802.11n 5500 MHz 6.5 Mbps Peak Plot



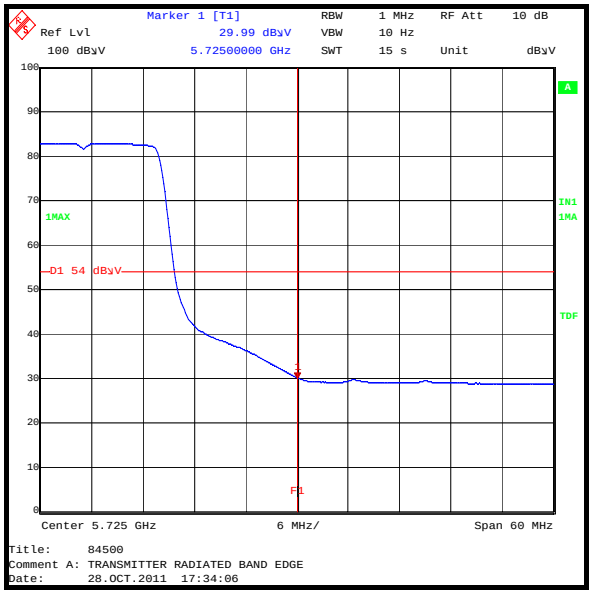
802.11n 5500 MHz 6.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

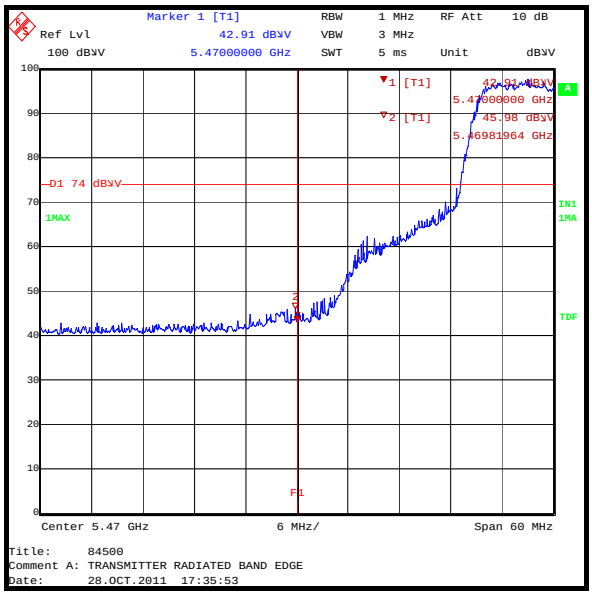
Plots - 802.11n – 5.500 to 5.700 GHz band



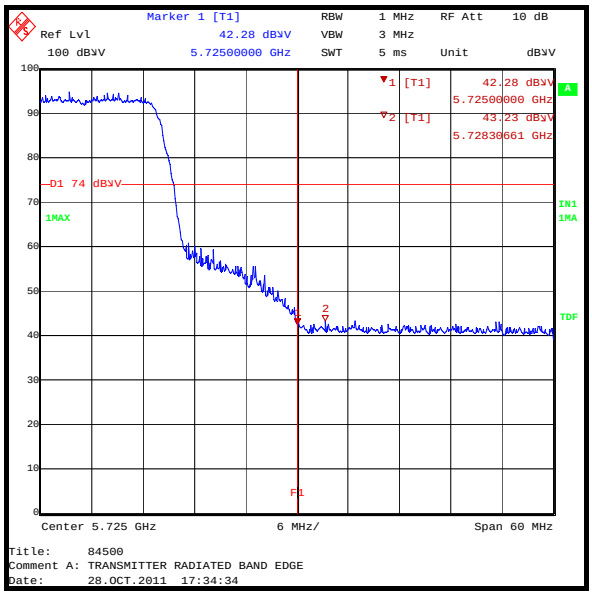
802.11n 5500 MHz 13 Mbps Average Plot



802.11n 5700 MHz 13 Mbps Average Plot



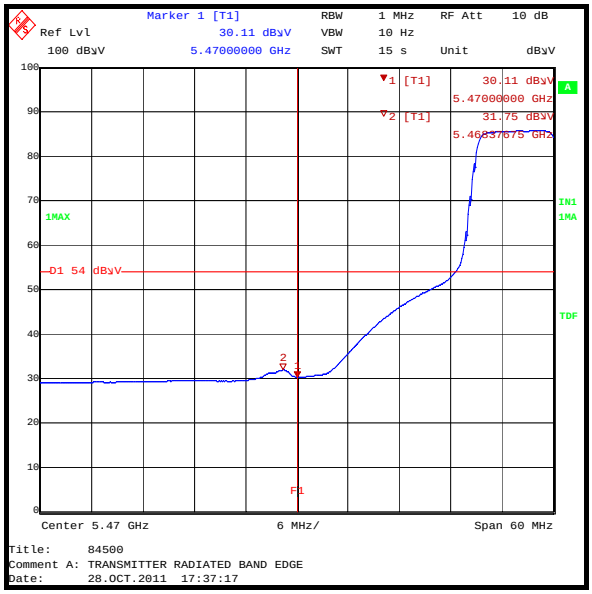
802.11n 5500 MHz 13 Mbps Peak Plot



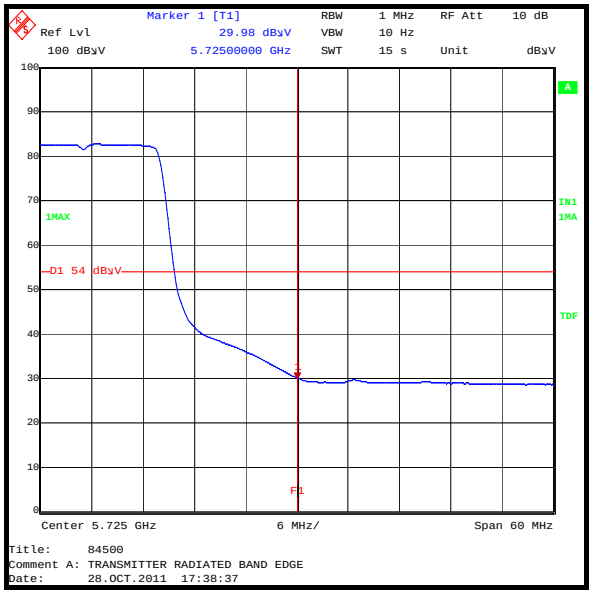
802.11n 5700 MHz 13 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

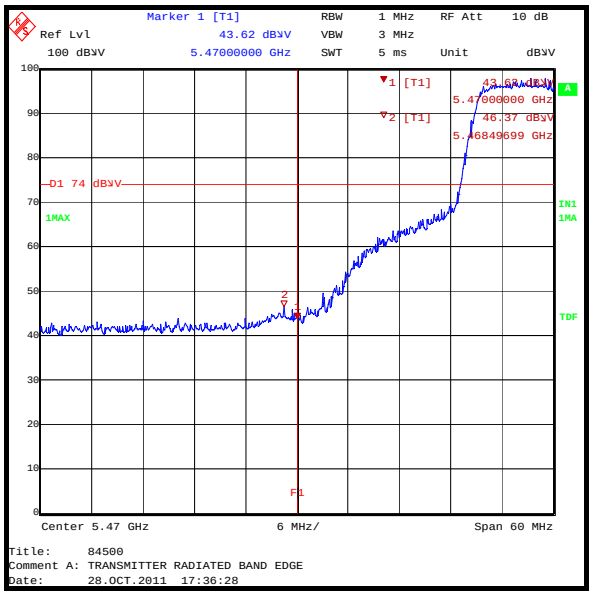
Plots - 802.11n – 5.500 to 5.700 GHz band



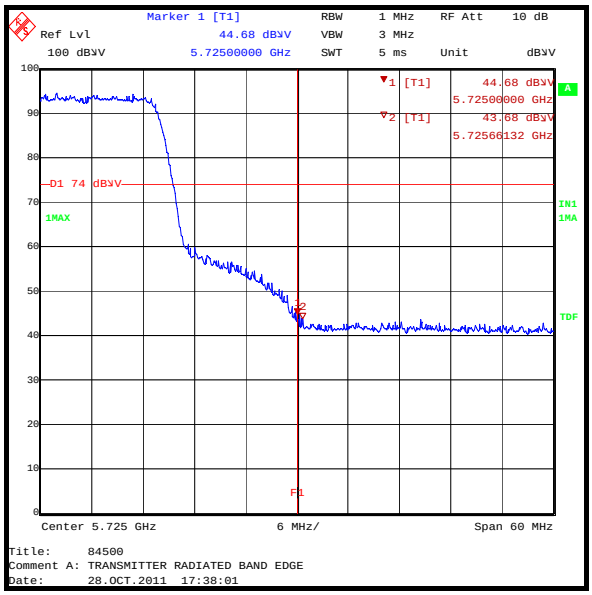
802.11n 5500 MHz 19.5 Mbps Average Plot



802.11n 5700 MHz 19.5 Mbps Average Plot



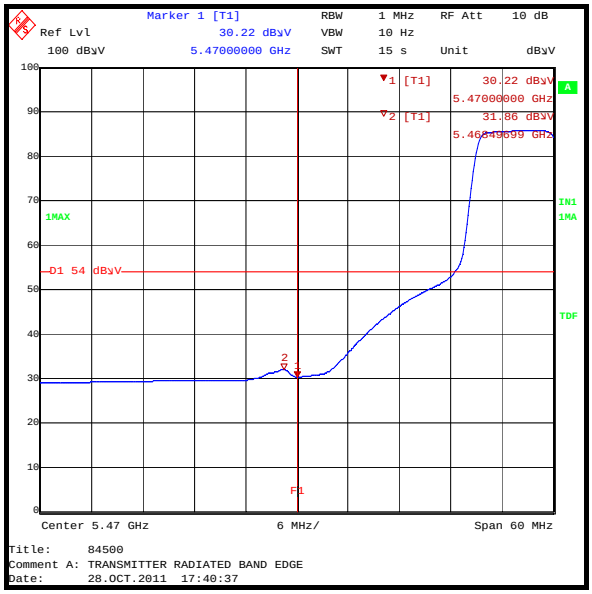
802.11n 5500 MHz 19.5 Mbps Peak Plot



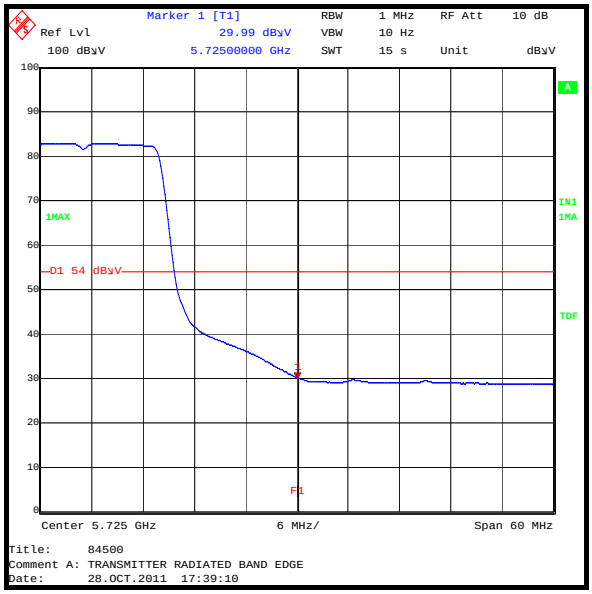
802.11n 5700 MHz 19.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

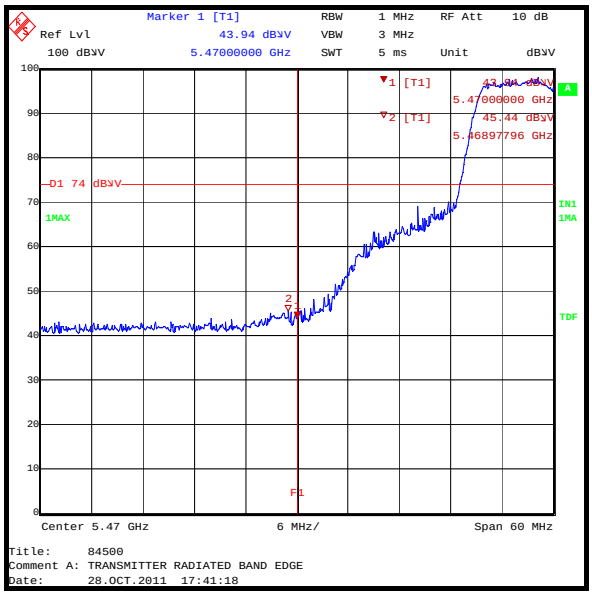
Plots - 802.11n – 5.500 to 5.700 GHz band



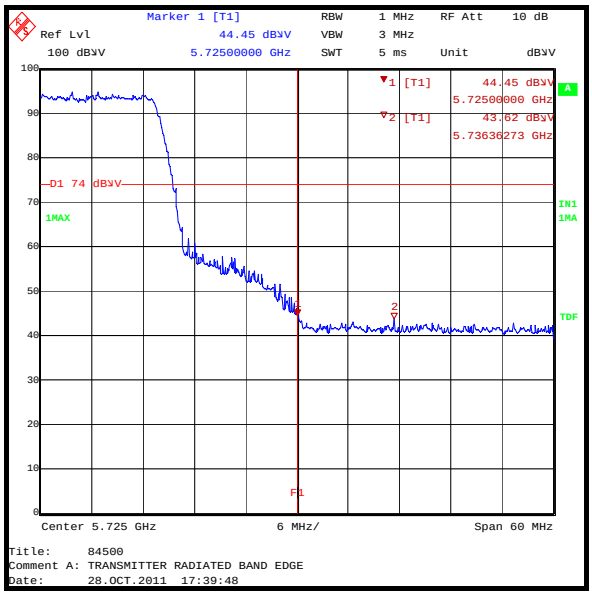
802.11n 5500 MHz 26 Mbps Average Plot



802.11n 5700 MHz 26 Mbps Average Plot



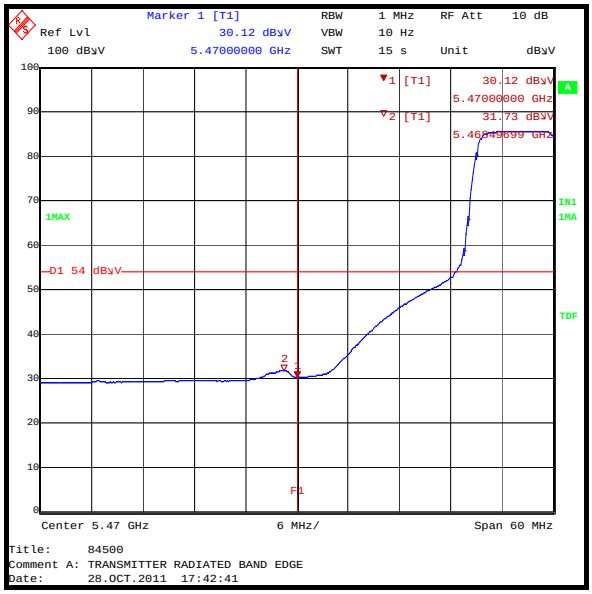
802.11n 5500 MHz 26 Mbps Peak Plot



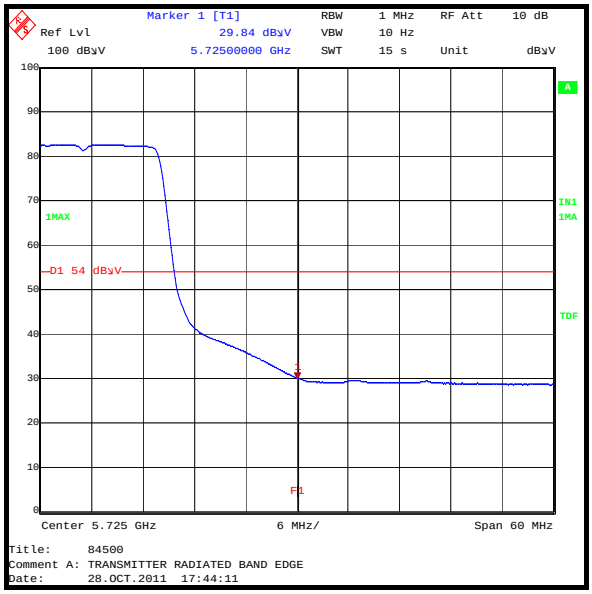
802.11n 5700 MHz 26 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

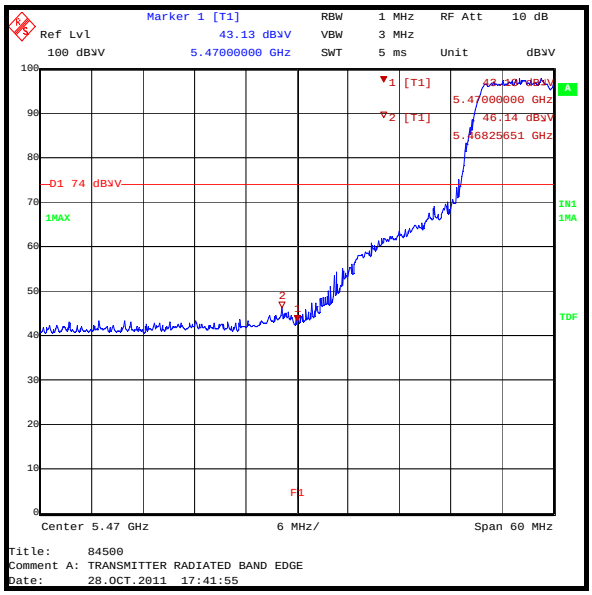
Plots - 802.11n – 5.500 to 5.700 GHz band



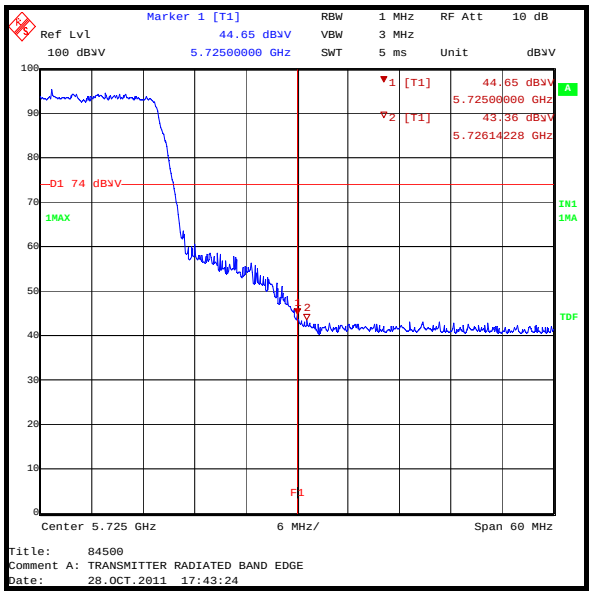
802.11n 5500 MHz 39 Mbps Average Plot



802.11n 5700 MHz 39 Mbps Average Plot



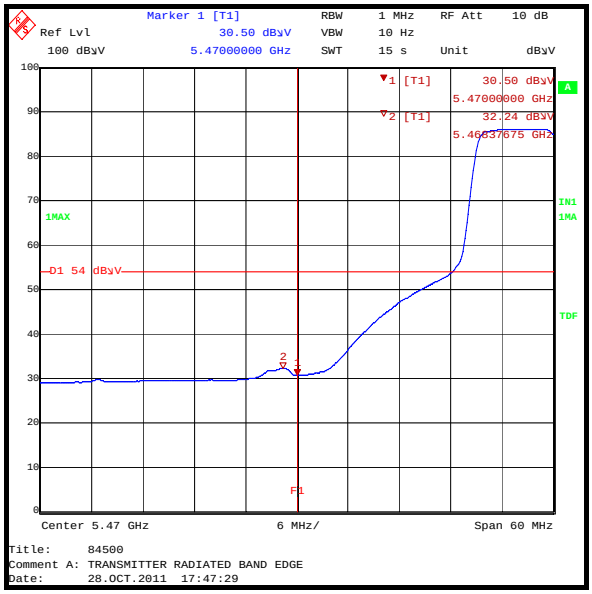
802.11n 5500 MHz 39 Mbps Peak Plot



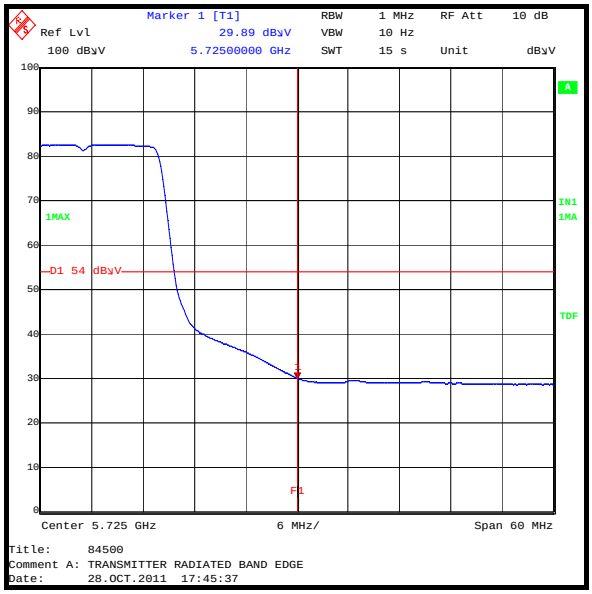
802.11n 5700 MHz 39 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

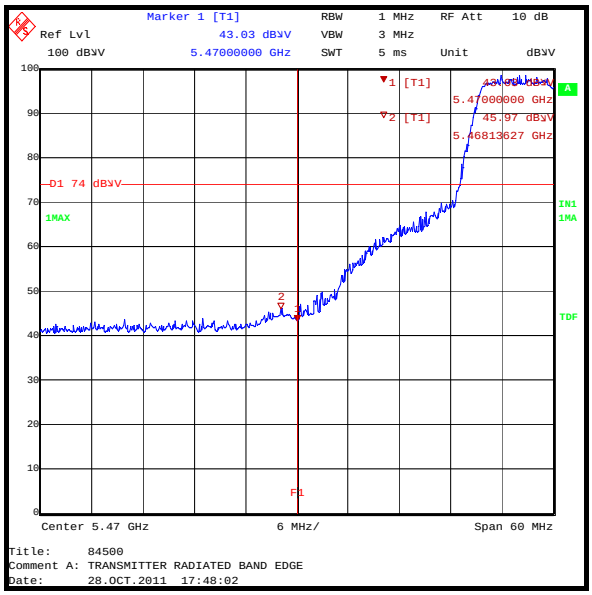
Plots - 802.11n – 5.500 to 5.700 GHz band



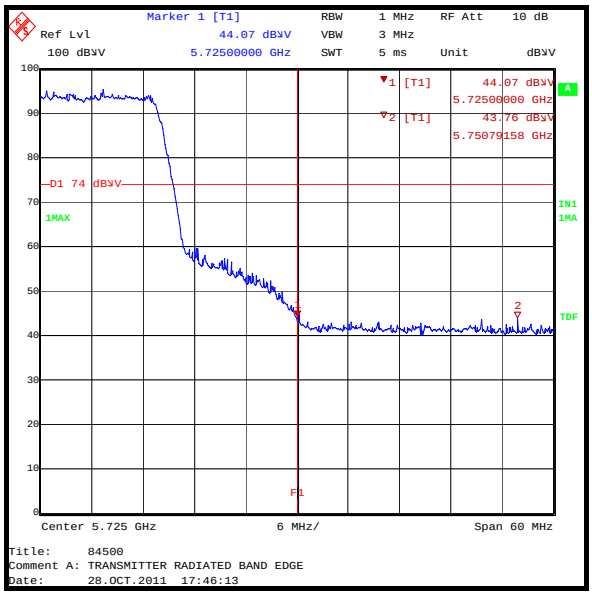
802.11n 5500 MHz 52 Mbps Average Plot



802.11n 5700 MHz 52 Mbps Average Plot



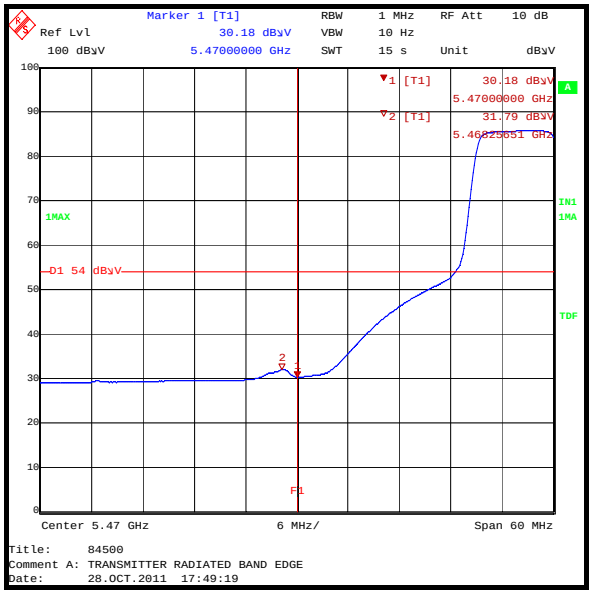
802.11n 5500 MHz 52 Mbps Peak Plot



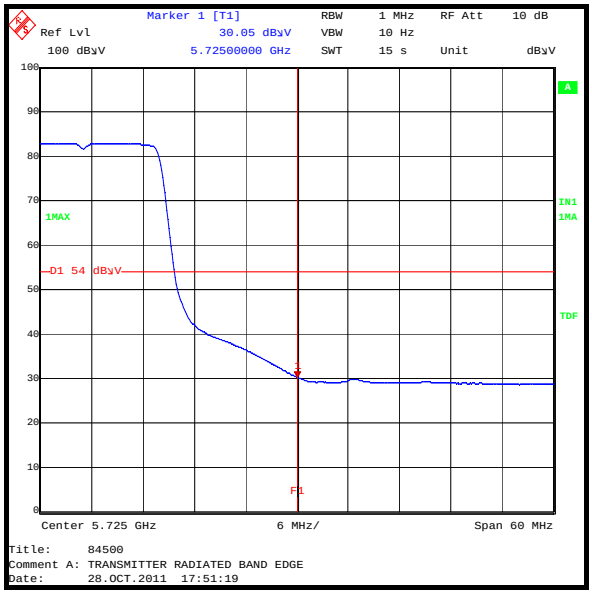
802.11n 5700 MHz 52 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

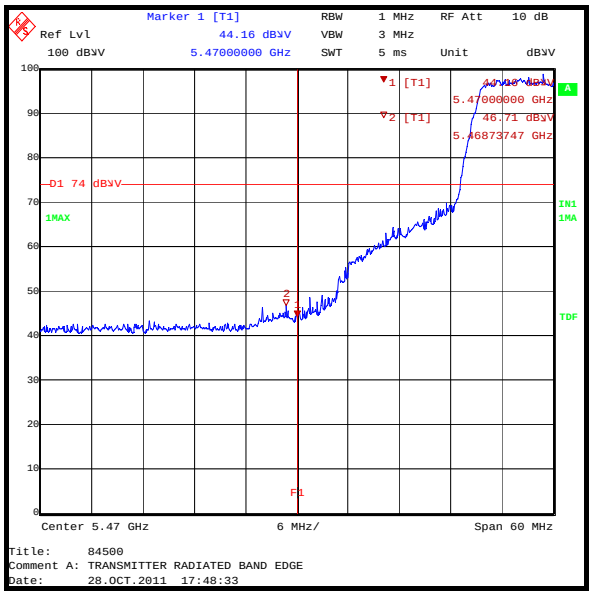
Plots - 802.11n – 5.500 to 5.700 GHz band



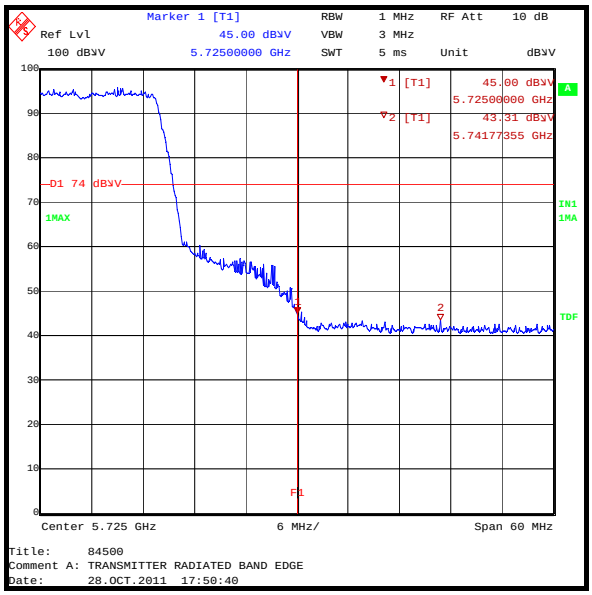
802.11n 5500 MHz 58.5 Mbps Average Plot



802_11 n 5700 MHz 58.5 Mbps Average Plot



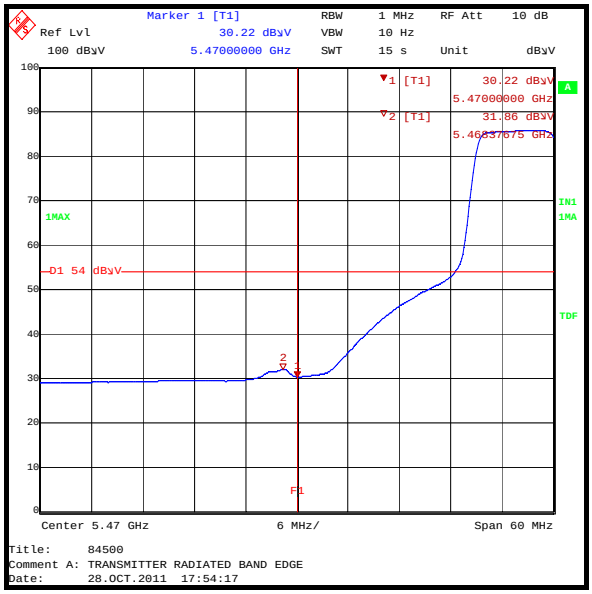
802.11n 5500 MHz 58.5 Mbps Peak Plot



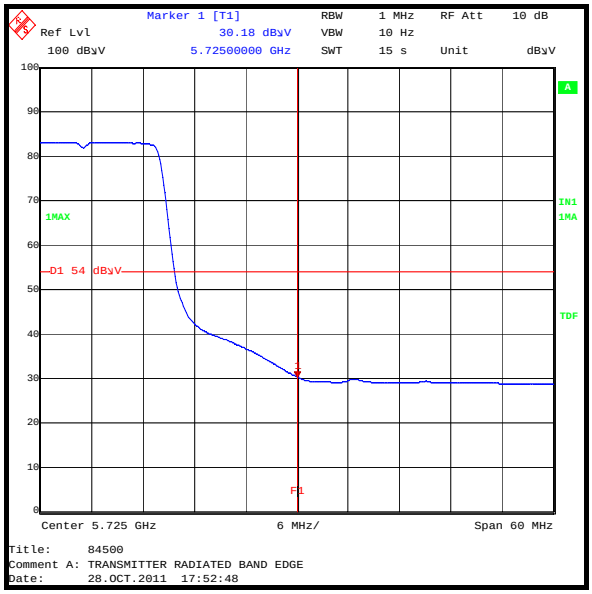
802_11 n 5700 MHz 58.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

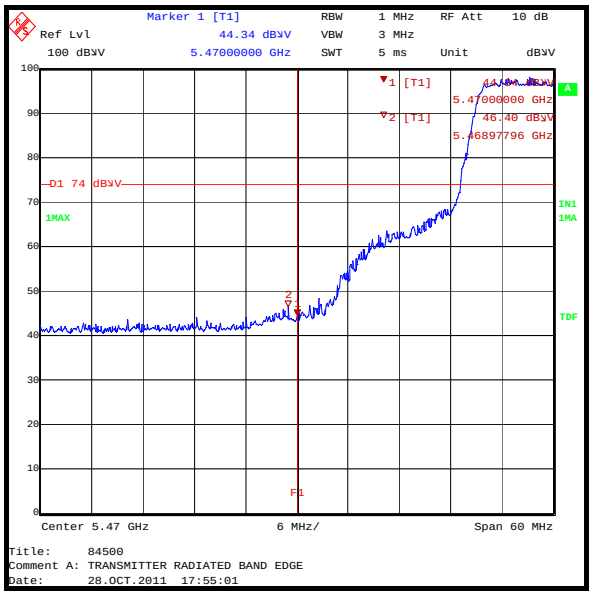
Plots - 802.11n – 5.500 to 5.700 GHz band



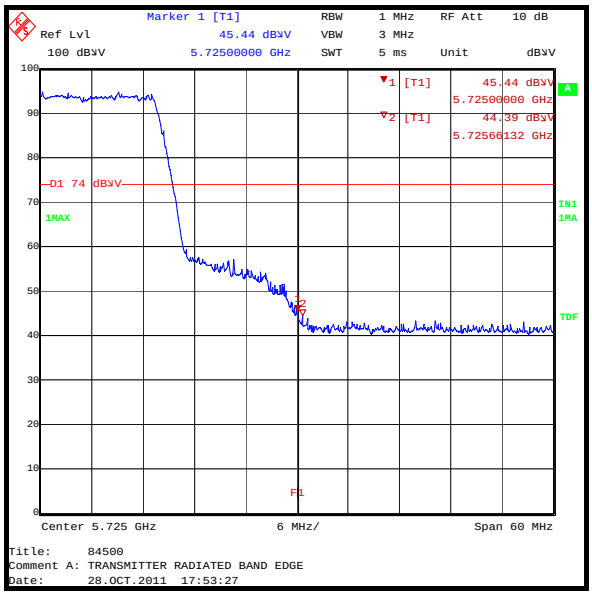
802_11 n 5500 MHz 65 Mbps Average Plot



802_11 n 5700 MHz 65 Mbps Average Plot



802_11 n 5500 MHz 65 Mbps Peak Plot



802_11 n 5700 MHz 65 Mbps Peak Plot

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Maximum Conducted Output Power	5.15 GHz to 5.825 GHz	95%	±0.27 dB
Radiated Spurious Emissions	30 MHz to 40 GHz	95%	±4.68 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (months)
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	09 Oct 2012	12
A1818	Antenna	EMCO	3115	00075692	09 Oct 2012	12
A1834	Attenuator	Hewlett Packard	8491B	10444	26 Jul 2012	12
A1998	6820.17.B	Huber + Suhner AG	6820.17.B	07101	09 Feb 2012	12
A203	Antenna	Flann Microwave Ltd	22240-20	343	11 May 2013	36
A253	Antenna	Flann Microwave	12240-20	128	09 Oct 2012	12
A254	Antenna	Flann Microwave	14240-20	139	09 Oct 2012	12
A255	Antenna	Flann Microwave	16240-20	519	09 Oct 2012	12
A256	Antenna	Flann Microwave	18240-20	400	09 Oct 2012	12
A436	Antenna	Flann	20240-20	330	09 Oct 2012	12
A553	Antenna	Chase	CBL6111A	1593	26 Mar 2012	12
K0001	5m Semi-Anechoic Chamber	Rainford EMC	N/A	N/A	29 May 2012	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	09 Oct 2012	12
M1124	Spectrum Analyser	Rohde & Schwarz	ESI26	100046K	29 Jun 2012	12
M1263	Test Receiver	Rohde & Schwarz	ESIB7	100265	13 Jul 2012	12
M1273	Test Receiver	Rohde & Schwarz	ESIB 26	100275	04 Feb 2012	12
M1390	Harmonic Mixer	Farran Technology	WHMP 28	FTL1677B	Calibrated before use.	12