



**TEST REPORT
FROM
RFI GLOBAL SERVICES LTD**

Partial Test of: Motorola
PTP49600

To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Test Report Serial No:
RFI/RPT5/RP73934JD01A

Supersedes Test Report Serial No:
RFI/RPT4/RP73934JD01A

This Test Report Is Issued Under The Authority Of Steve Flocks, Service Leader:		pp	
Checked By: Nigel Davison 	Report Copy No: PDF01		
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1. Customer Information

Company Name:	Motorola Point to Point Fixed Wireless Solutions Group
Address:	A1 Linhay Business Park Eastern Road Ashburton Devon TQ13 7UP
Contact Name:	Mr C Fisher

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2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

2.1. Identification of Equipment Under Test (EUT)

Description:	Wireless Ethernet Bridge - ODU
Brand Name:	Motorola
Model Name or Number:	PTP49600
Serial Number:	80:40:1A
FCC ID Number:	QWP49100, IC:109AO-49100
Hardware Version:	Pilot
Software Version:	08.00
Country of Manufacture:	Germany
Date of Receipt:	08 October 2008

2.2. Description of EUT

The equipment under test was a 4.9 GHz band Wireless Ethernet Bridge.

2.3. Modifications Incorporated in the EUT

A semi-rigid cable had been fitted to a PCB within the EUT by the customer in order to provide external access to a trigger when the transmitter was turned on. This cable was connected to an external trigger input on the measurement equipment when making power measurements.

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2.4. Additional Information Related to Testing

Power Supply Requirement:	Nominal 120 V, 60 Hz AC Mains Supply		
Intended Operating Environment:	Residential, Commercial and Light Industry		
Equipment Category:	Microwave fixed radio link		
Type of Unit:	Base Station (Fixed used) Transceiver		
Antenna Type:	Flat Plate		
Antenna Gain:	22dBi		
Modulation Type:	OFDM		
Channel Spacing:	5, 10, 20MHz		
Transmit Frequency Range:	4940 MHz to 4990 MHz		
Transmit Channels Tested:	Channel Bandwidth (MHz)	Bottom Channel Frequency (MHz)	Top Channel Frequency (MHz)
	5	4942.5	4987.5
	10	4945	4985
	20	4950	4980
Receive Frequency Range:	4940 MHz to 4990 MHz		
Receive Channels Tested:	Channel Bandwidth (MHz)	Bottom Channel Frequency (MHz)	Top Channel Frequency (MHz)
	5	4942.5	4987.5
	10	4945	4985
	20	4950	4980
Highest Fundamental Frequency:	5882 MHz		

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2.5. Support Equipment

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

Description:	Power In Door Unit - PIDU for Master ODU (EUT)
Brand Name:	Motorola
Model Name or Number:	PTP49600
Serial Number:	0629259014
Cable Length and Type:	2 metres / CAT 5 and 2 metre mains cable
Connected to Port:	Ethernet on master Wireless Ethernet Bridge and Ethernet to laptop PC

Description:	Wireless Ethernet Bridge – ODU (Slave)
Brand Name:	Motorola
Model Name or Number:	PTP49600
Serial Number:	80:36:59
Cable Length and Type:	0.5 metres / coaxial and 2 metre Ethernet
Connected to Port:	To RF port on EUT master Wireless Ethernet Bridge. Ethernet to slave PIDU.

Description:	Power In Door Unit - PIDU for Slave ODU
Brand Name:	Motorola
Model Name or Number:	PTP49600
Serial Number:	0629258172
Cable Length and Type:	2 metres / CAT 5 and 2 metre mains cable
Connected to Port:	Ethernet on slave Wireless Ethernet Bridge and Ethernet to laptop PC

Description:	Laptop PC
Brand Name:	Dell
Model Name or Number:	Latitude D610
Serial Number:	RFI PC Asset number PC370NT
Cable Length and Type:	2 metres CAT 5 / Ethernet
Connected to Port:	Ethernet on EUT PIDU and Ethernet on slave PIDU

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3. Test Specification, Methods and Procedures

3.1. Test Specifications

Reference:	FCC Part 90: 2008 (Chapter I)
Title:	Code Of Federal Regulations, Part 90 (47CFR90) Private Land Mobile Radio Services.

Reference:	RSS-Gen Issue 2 June 2007
Title:	General Requirements and Information for the Certification of Radio communication Equipment

Reference:	RSS-111 Issue 2 June 2007
Title:	Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz

3.2. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI/TIA-603-B-2003

Land Mobile Communications Equipment, Measurements and performance Standards

ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2001)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

3.3. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the Methods & Procedures section above. Appendix 1 contains a list of the test equipment used.

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4. Deviations from the Test Specification

There were no deviations from the test specification.

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5. Operation of the EUT During Testing

5.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated:

- As a master device, transmitting using one of the following modulation types; BPSK, QPSK, 16QAM, 64QAM and 256QAM.
- Operating on the bottom, centre or top channel, as per each test case requirement.
- Transmitter power tests were performed with the EUT transmitting at full power.
- No radiated testing was performed. Conducted tests only.
- AC conducted tests with the equipment connected to the mains supply were not performed.

5.2. Configuration and Peripherals

The EUT was tested in the following configuration:

- The EUT was connected to a slave ODU through suitably attenuated RF cables and a communications link was maintained. The integral antenna was replaced by a connector plate giving access to horizontal and vertical antenna connections. Connection to the measuring equipment was made through suitably attenuated RF cables, and/or an RF splitter/combiner connected to the RF port on the EUT.
- The ODU was powered by the PIDU through the Ethernet cable. The PIDU was powered by mains voltage.
- A laptop PC with Customer's bespoke software was used to configure the EUT and slave ODU during the testing.

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6. Summary of Test Results

Range of Measurements	FCC Reference	IC RSS-111 Reference	Port Type	Result
Transmitter Peak Carrier Output Power (Conducted)	90.205/90.1215(a)/2.1046	3.1/4.3	Antenna Terminals	Complied
Transmitter Peak Power Spectral Density (Conducted)	90.205/90.1215/2.1046	3.2/4.3	Antenna Terminals	Complied
Transmitter Occupied Bandwidth (Bandwidth Limitations)	90.209, 2.1049	4.3	Antenna Terminals	Complied
Transmitter Conducted Emissions Masks	90.210 (b) Mask B 90.210 (d) Mask D	4.4 High-Power	Antenna Terminals	Complied
Transmitter Conducted Emissions (Out of Band) (9 kHz to 40 GHz)	90.210	4.4	Antenna Terminals	Complied
Transmitter Frequency Stability (Temperature & Voltage Variation)	90.213, 2.1055	4.2	Antenna Terminals	Complied

6.1. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH.

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7. Measurements, Examinations and Derived Results

7.1. General Comments

This section contains test results only.

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 8 for details of measurement uncertainties.

The peak carrier output power measurements were made using a Rohde & Schwarz FSUP signal source analyser, which was loaned to RFI Global Services Ltd. by the customer. This equipment was within the calibration period (Calibrated by the manufacturer on 15 May 2008, calibration due 19 May 2009). The customer requested that the procedure below was followed. This procedure has been presented to the FCC by the customer who accepted that it can be used for the product.

The Time Domain Method proposed involves setting the analyser as follows:

- a) Zero span mode with the frequency of the analyser set to the centre of the emission.
- b) Resolution Bandwidth RBW set to >EBW such that the RBW is wide enough that further increases do not increase the reported power.
- c) Video BW set to maximum (must be > EBW).
- d) Either video or externally triggered to capture the whole Tx burst.
- e) Max Peak detector.
- f) Single Sweep to ensure a measurement over an interval of continuous transmission.
- g) Maximum number of sample points (30001) to give the most accurate measurement of the signal.
- h) Select Time Domain Power Measurement and set the start and stop intervals (T1/T2) to be within the transmitted burst.
- i) Set the analyser to report the RMS equivalent power in the channel.

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7.2. Test Results

7.2.1. Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046

Ambient Temperature: 19°C to 22°C

Relative Humidity: 43% to 49%

The maximum output power was measured using a spectrum analyser with a Time Domain Power Measurement function. The start and stop intervals (T1/T2) were set to be within the transmitted burst. The analyser was configured to measure the RMS equivalent power in the channel and this value was recorded in the tables below.

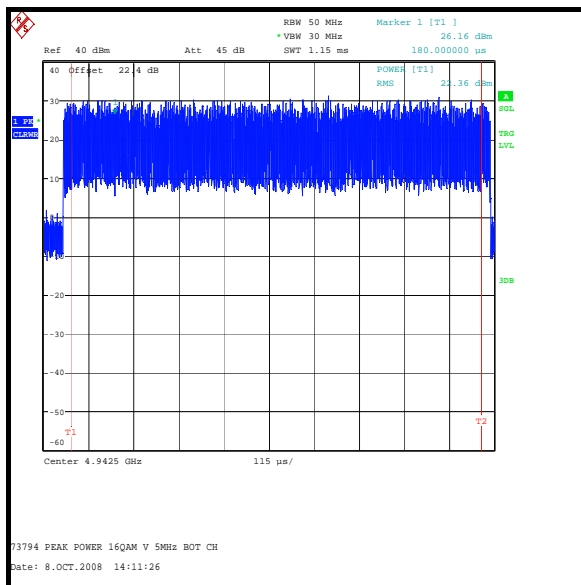
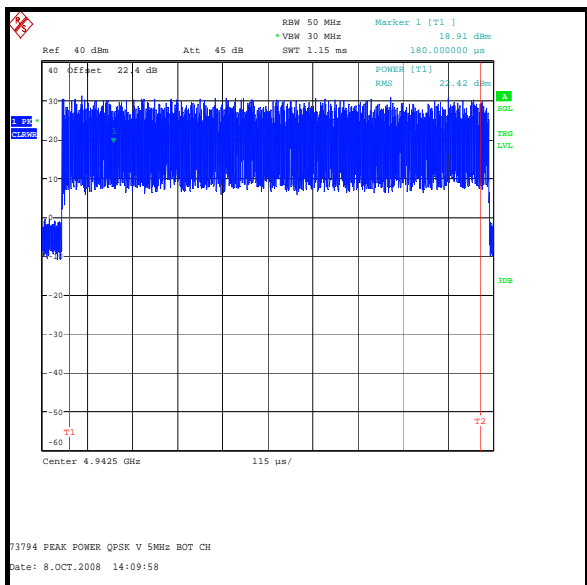
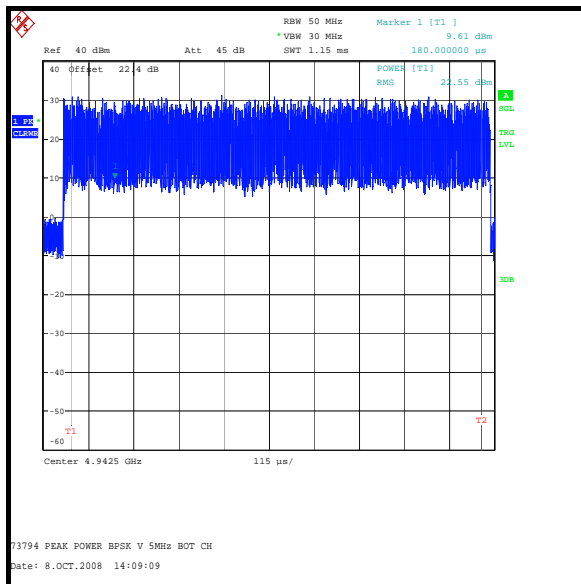
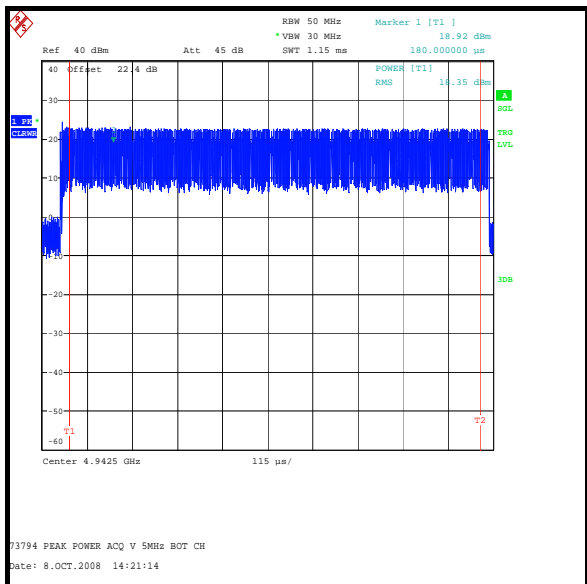
Results:

5 MHz Channel - Bottom Channel

Mode	Maximum Output Power (dBm)			Limit (dBm)	Margin (dB)
	Port H	Port V	Aggregate		
ACQ	18.7	18.4	21.6	27.0	5.4
BPSK	22.5	22.6	25.6	27.0	1.4
QPSK	22.6	22.4	25.5	27.0	1.5
16QAM	22.5	22.4	25.5	27.0	1.5
64QAM	22.6	22.4	25.5	27.0	1.5
256QAM	22.5	22.4	25.5	27.0	1.5

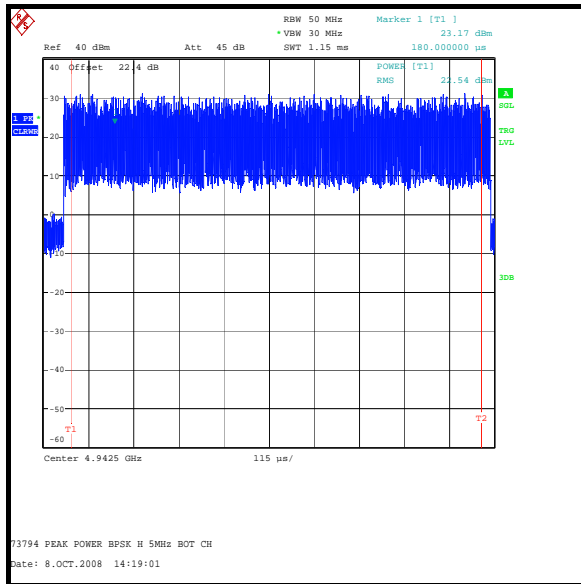
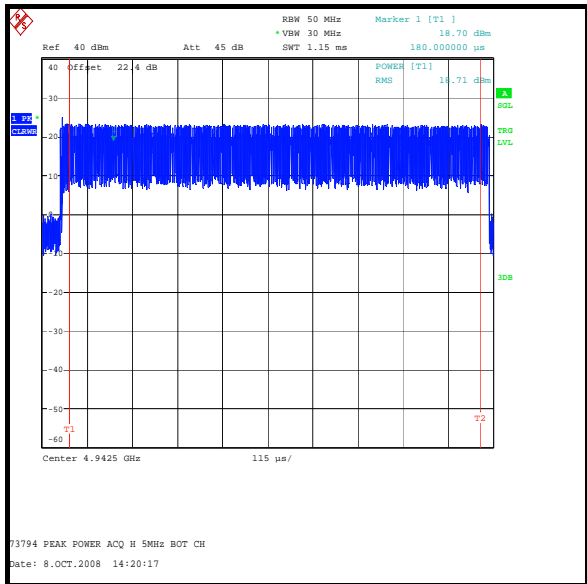
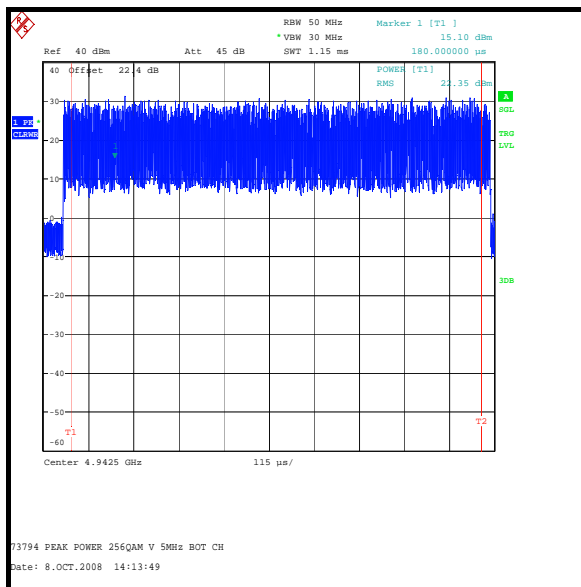
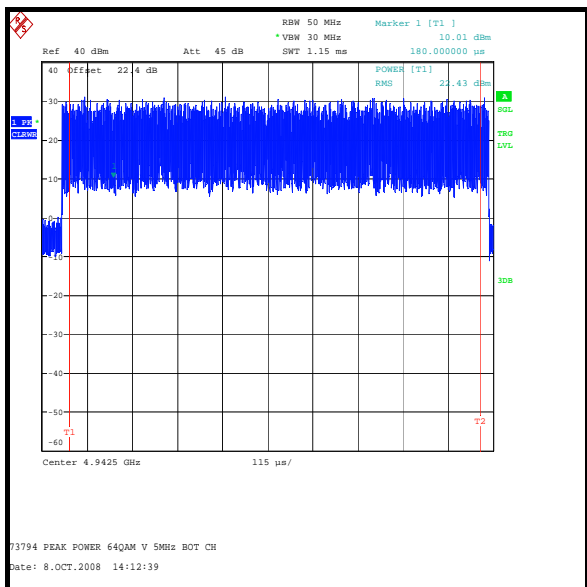
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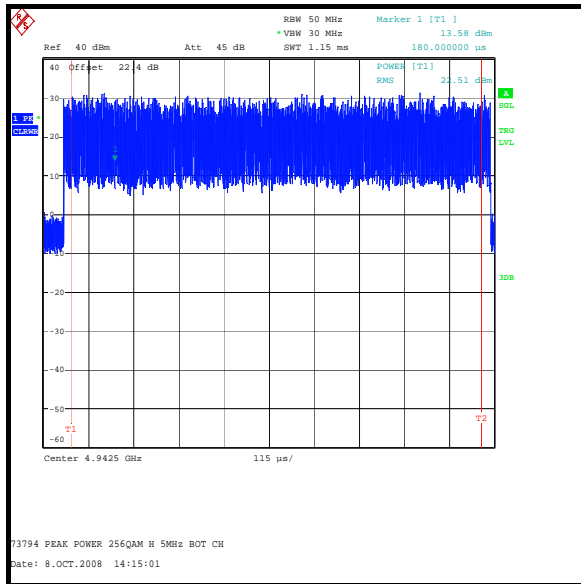
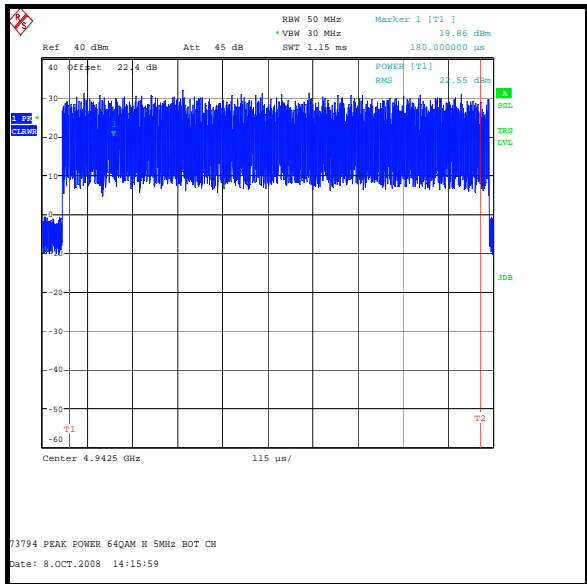
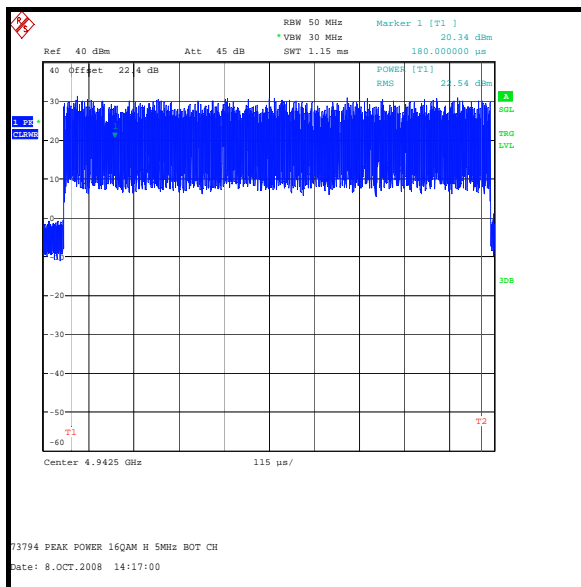
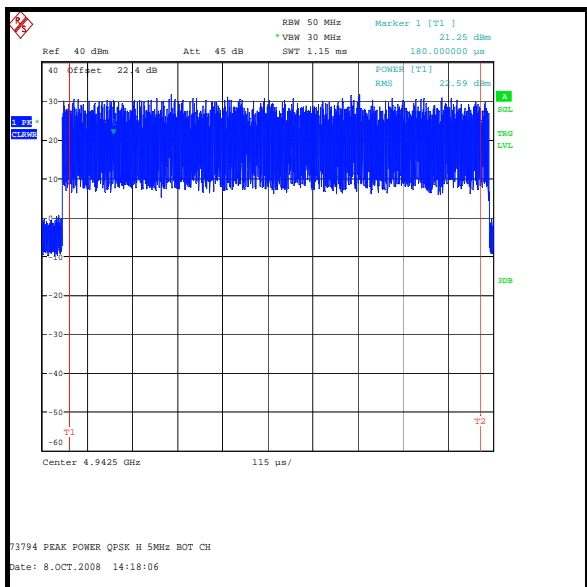
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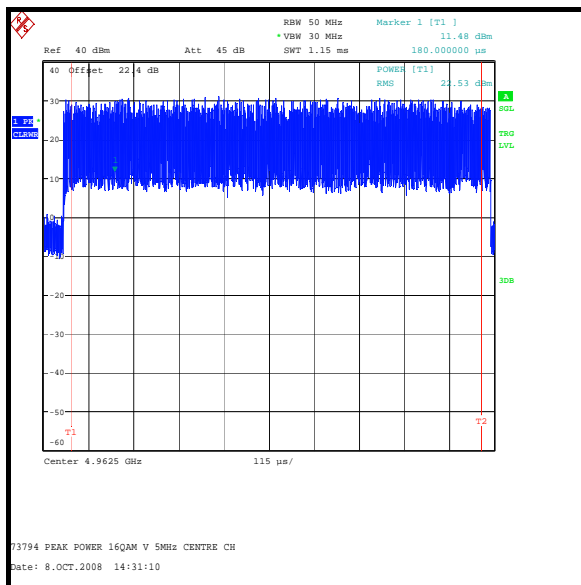
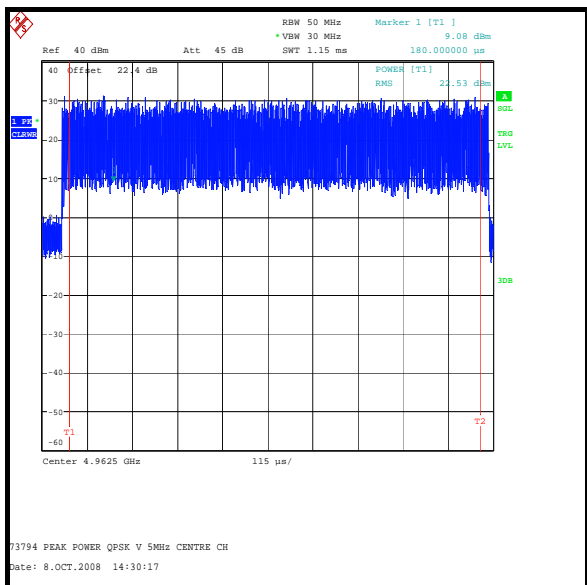
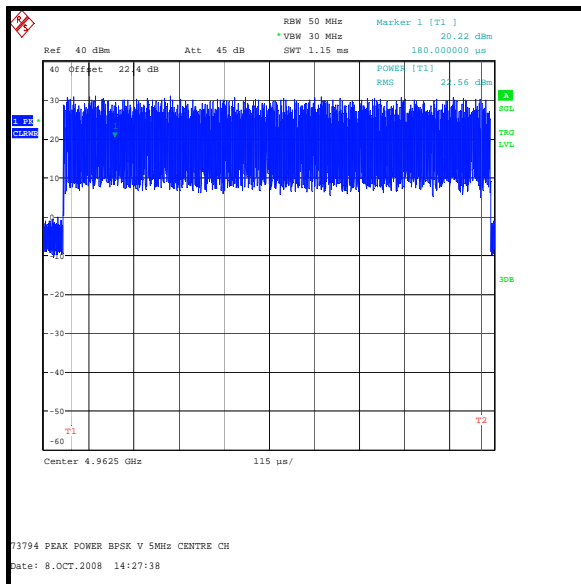
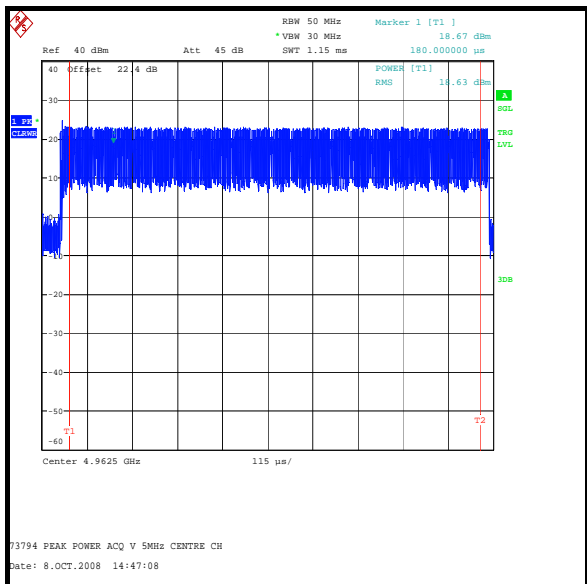
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Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046**Results:****5 MHz Channel - Centre Channel**

Maximum Output Power (dBm)				Limit	Margin
Mode	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	18.7	18.6	21.7	27.0	5.3
BPSK	22.7	22.6	25.7	27.0	1.3
QPSK	22.7	22.5	25.6	27.0	1.4
16QAM	22.7	22.5	25.6	27.0	1.4
64QAM	22.5	22.6	25.6	27.0	1.4
256QAM	22.5	22.5	25.5	27.0	1.5

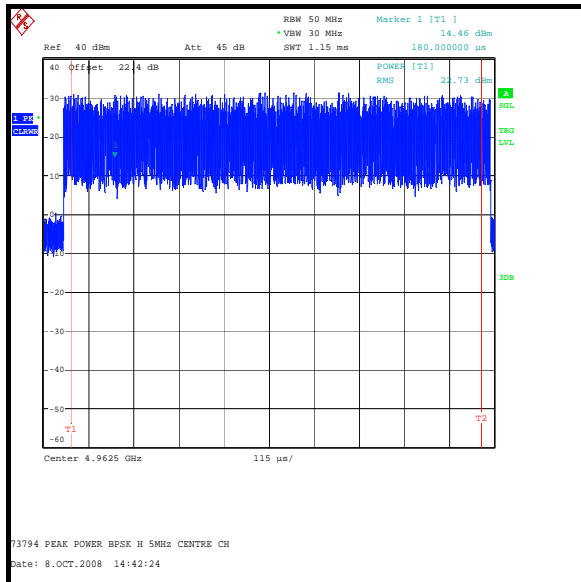
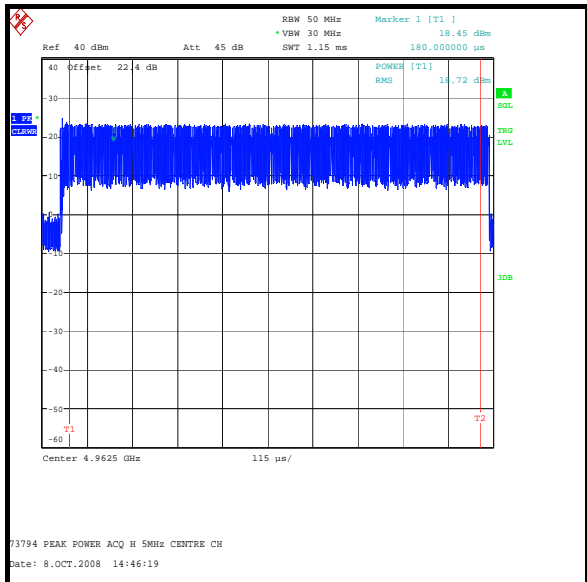
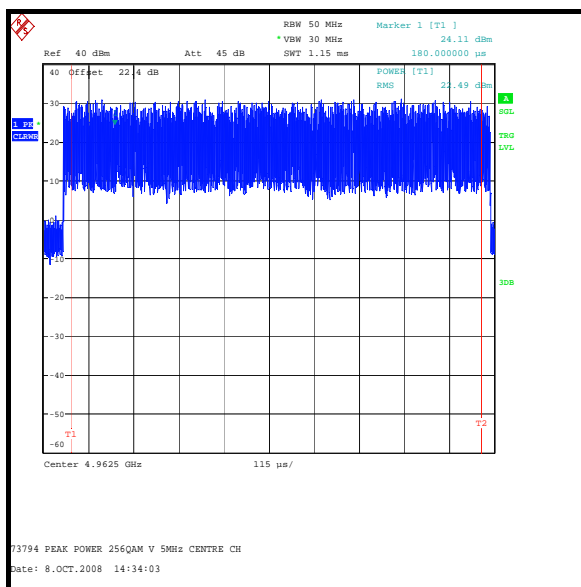
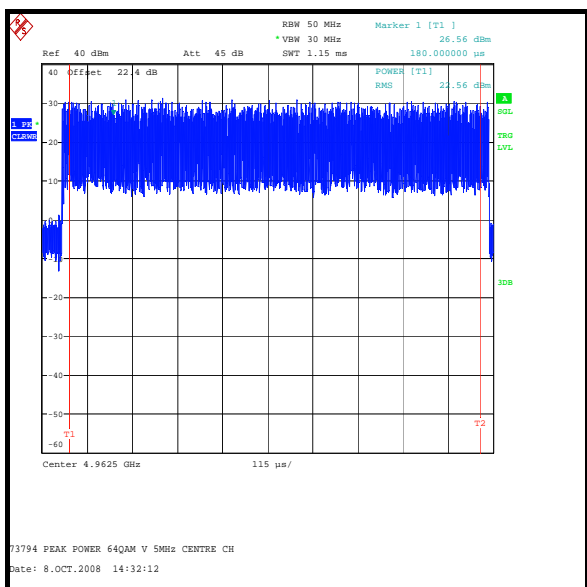
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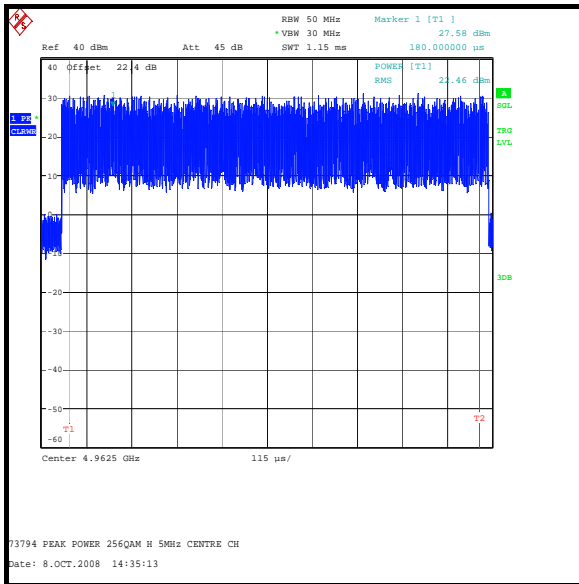
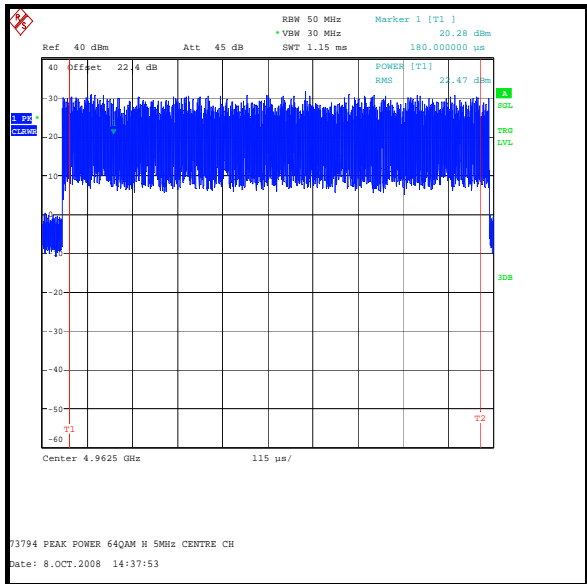
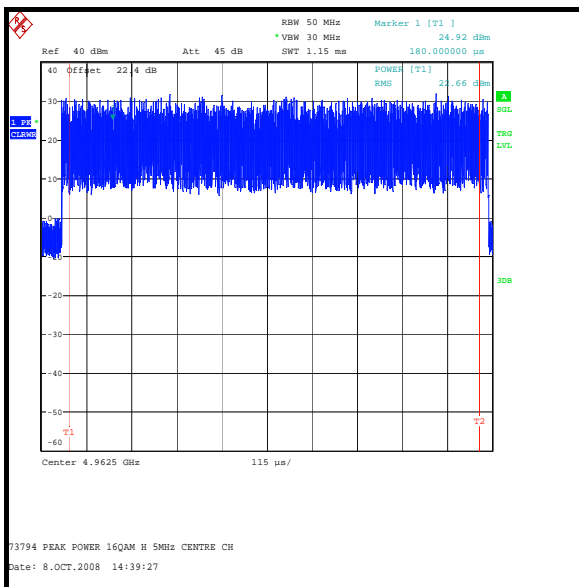
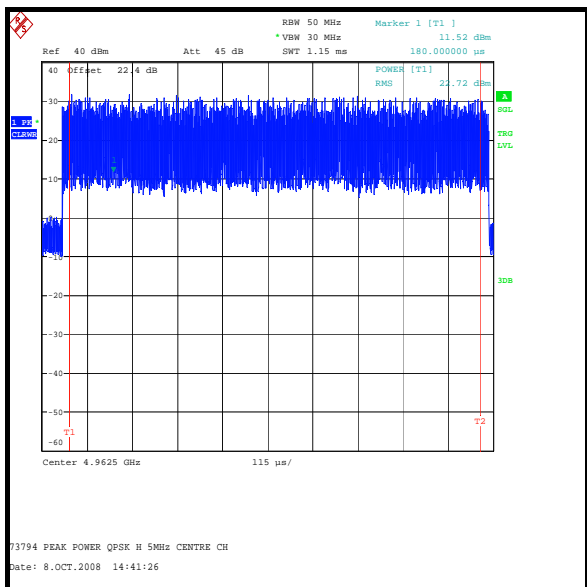
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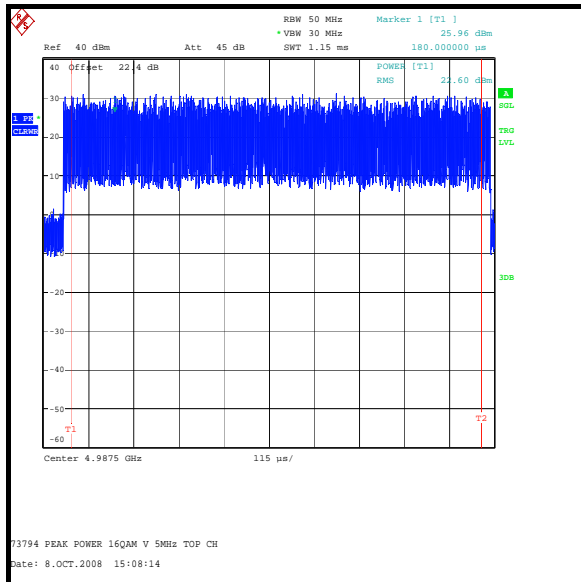
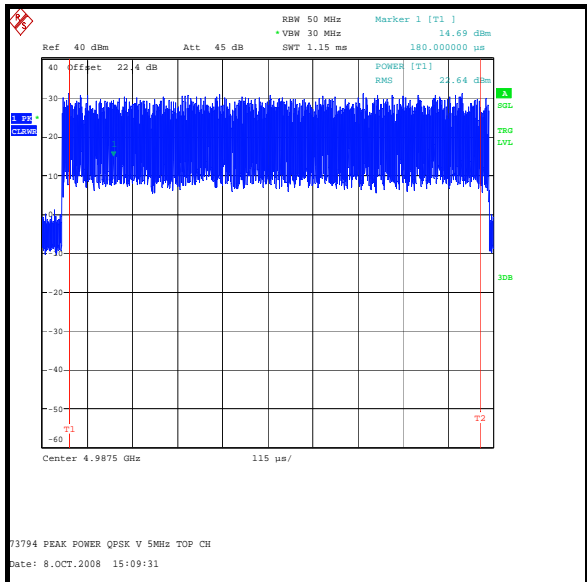
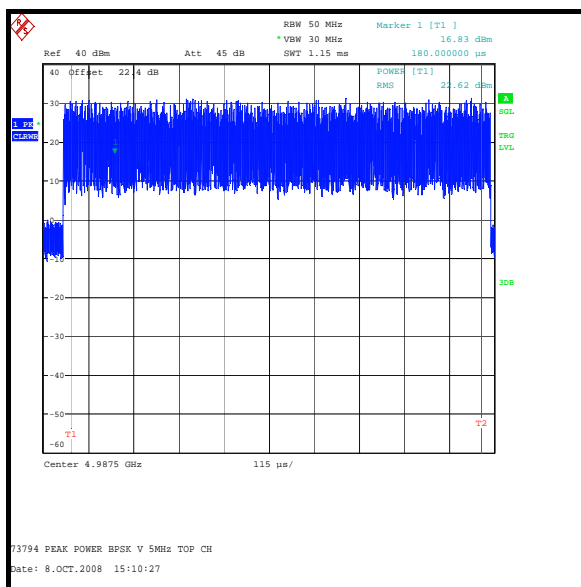
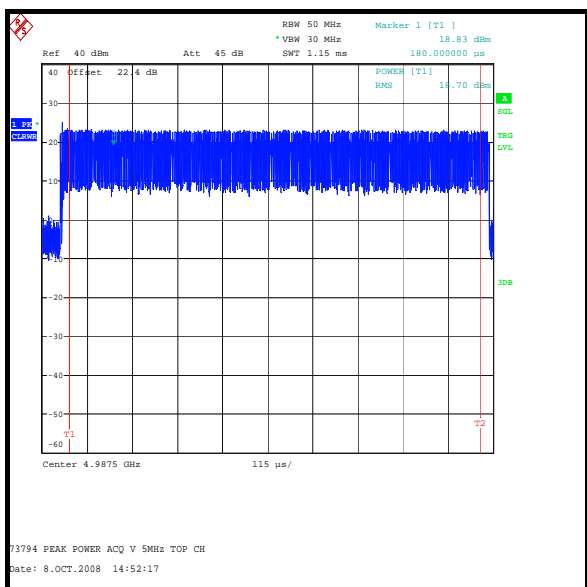
Results:

5 MHz Channel - Top Channel

Maximum Output Power (dBm)				Limit	Margin
Mode	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	18.7	18.7	21.7	27.0	5.3
BPSK	22.8	22.6	25.7	27.0	1.3
QPSK	22.8	22.6	25.7	27.0	1.3
16QAM	22.9	22.6	25.8	27.0	1.2
64QAM	22.8	22.6	25.7	27.0	1.3
256QAM	22.9	22.5	25.7	27.0	1.3

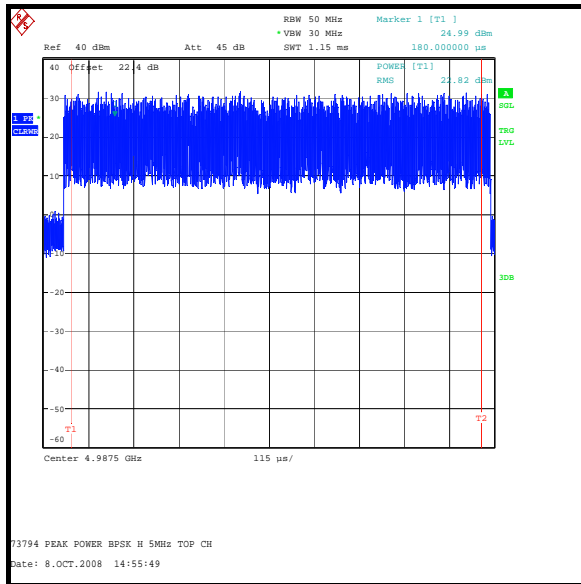
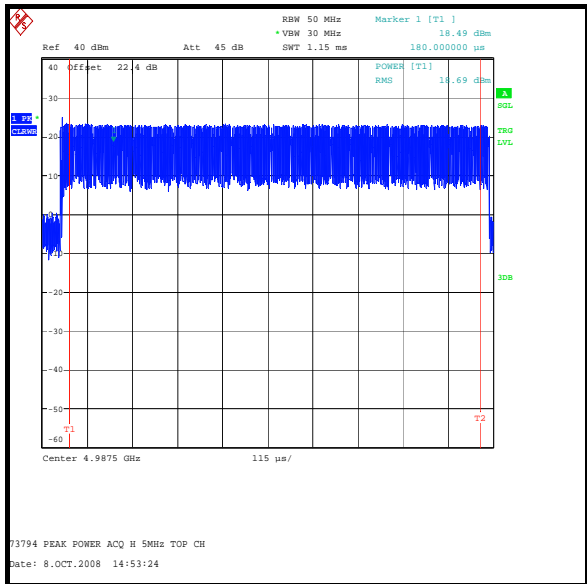
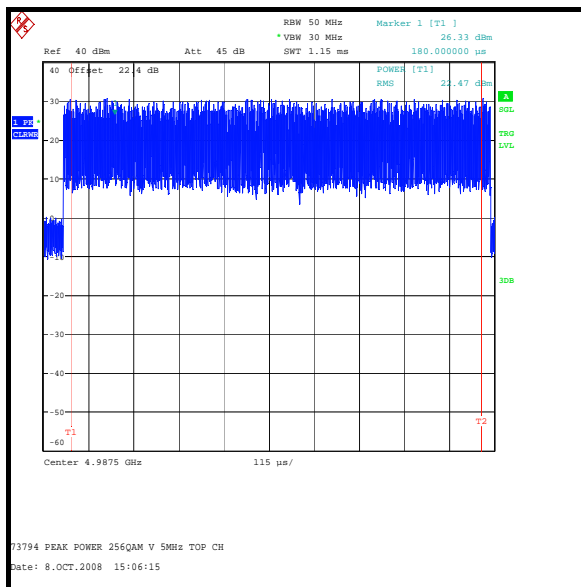
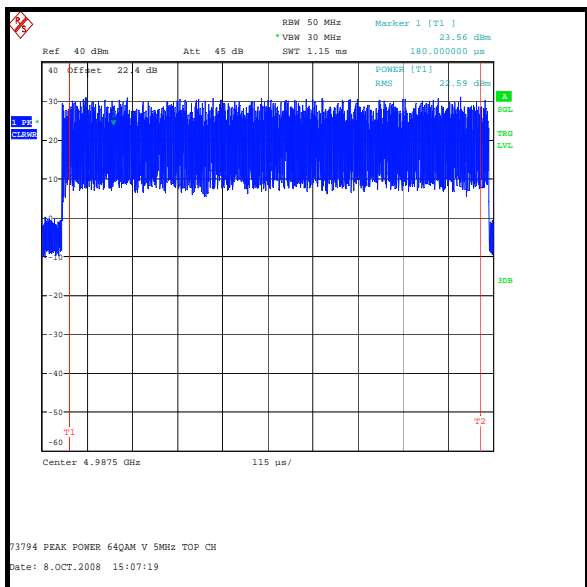
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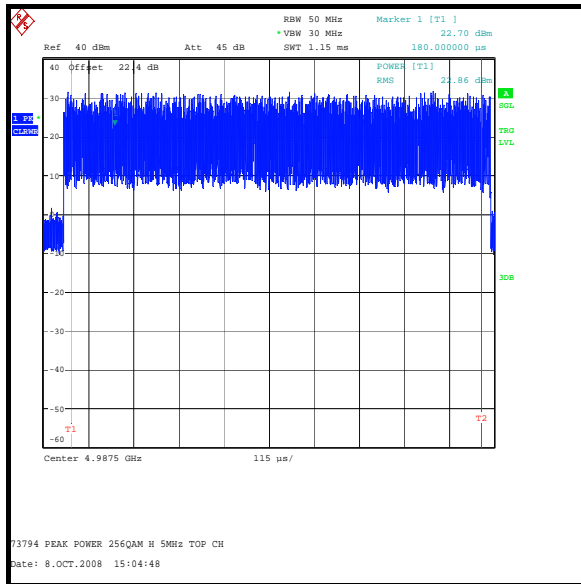
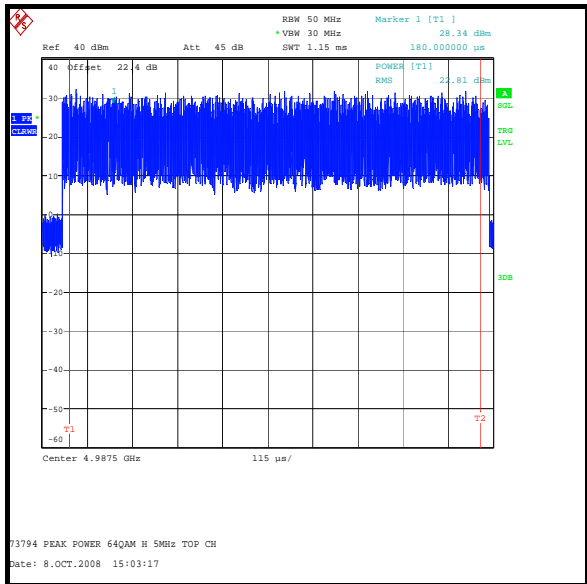
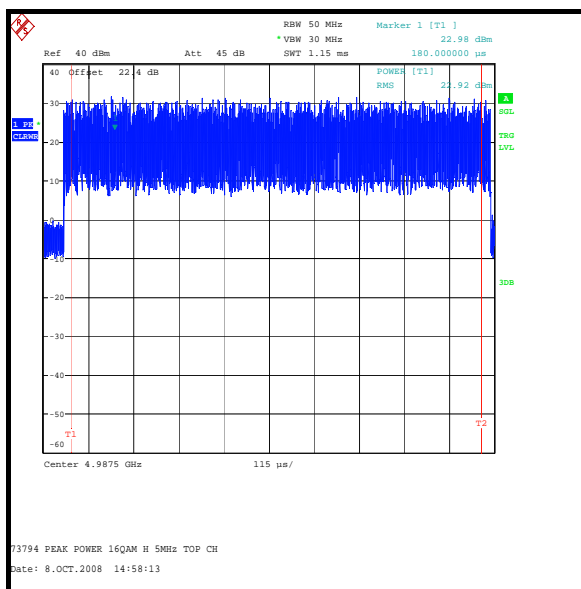
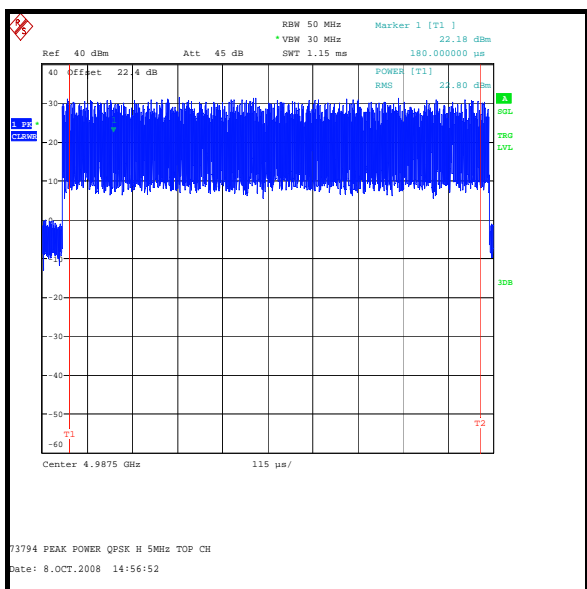
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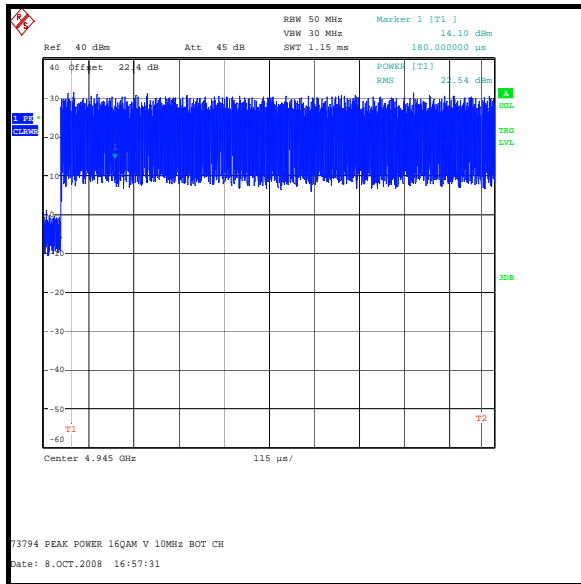
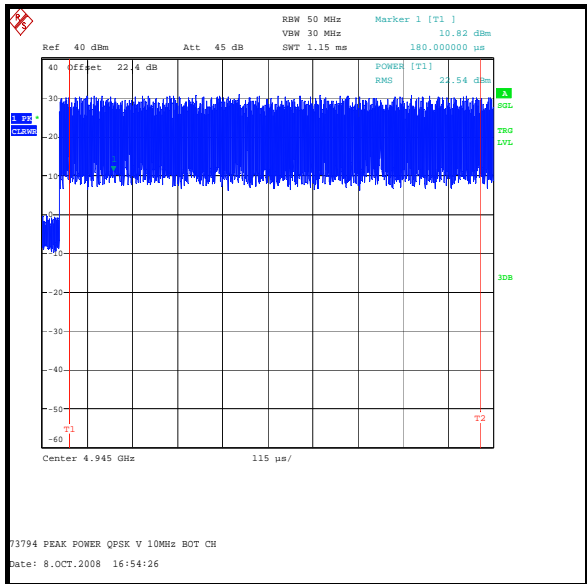
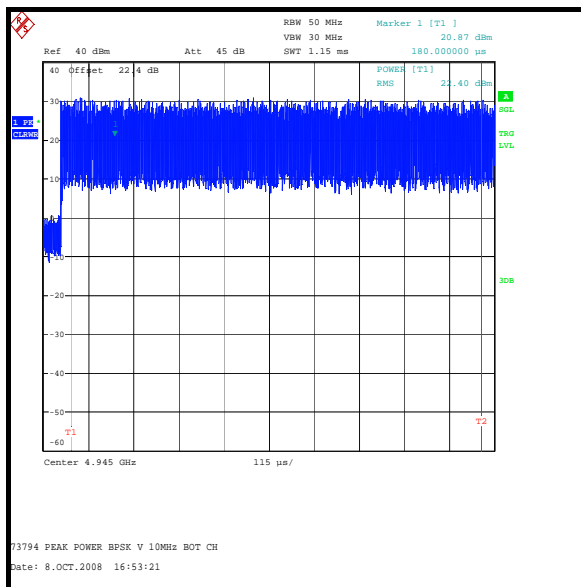
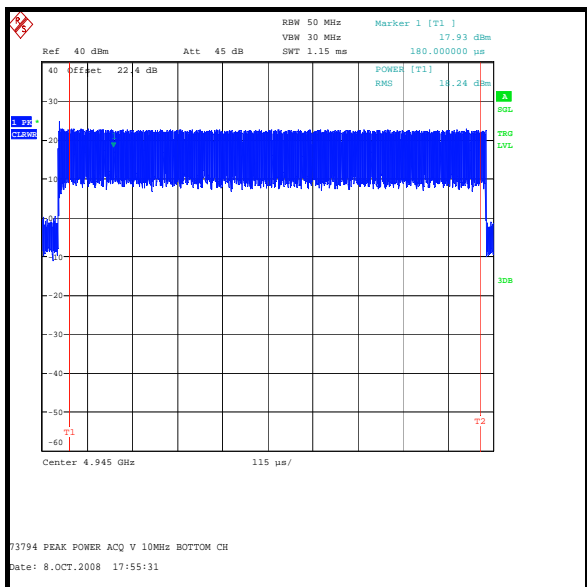
Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046**Results:****10 MHz Channel - Bottom Channel**

Maximum Output Power (dBm)				Limit	Margin
Mode	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	18.5	18.2	21.4	30.0	8.6
BPSK	22.6	22.4	25.5	30.0	4.5
QPSK	22.5	22.5	25.5	30.0	4.5
16QAM	22.5	22.5	25.5	30.0	4.5
64QAM	22.5	22.6	25.6	30.0	4.4
256QAM	22.5	22.5	25.5	30.0	4.5

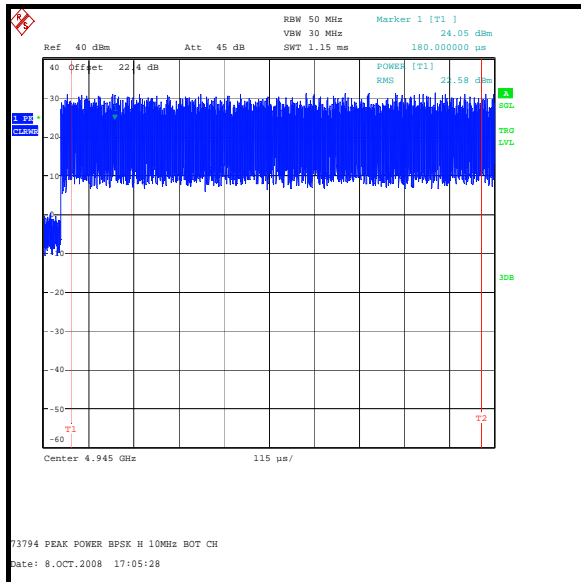
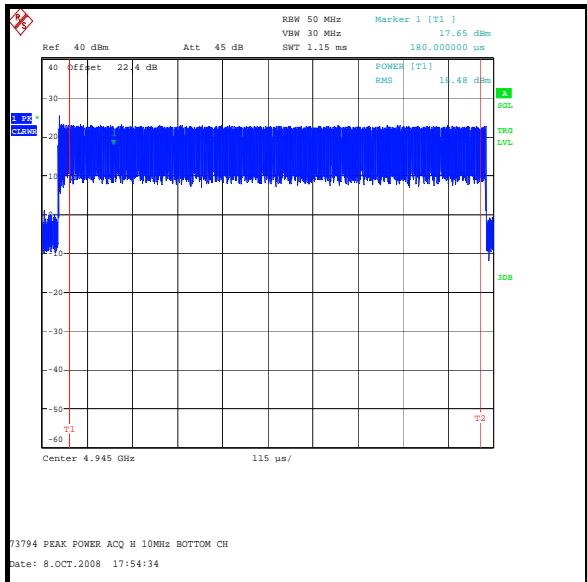
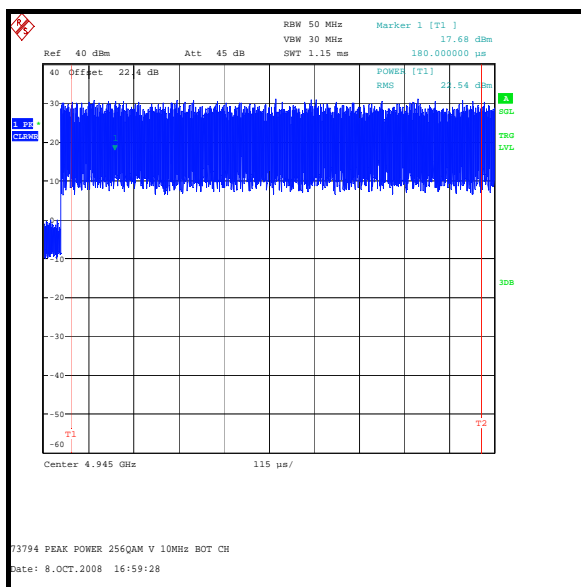
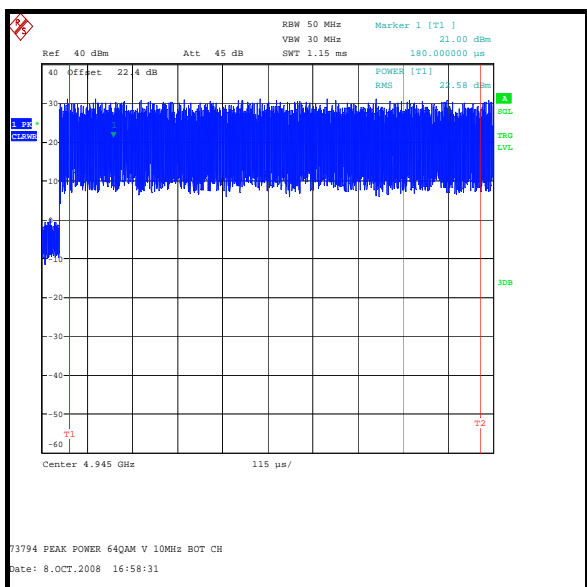
Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



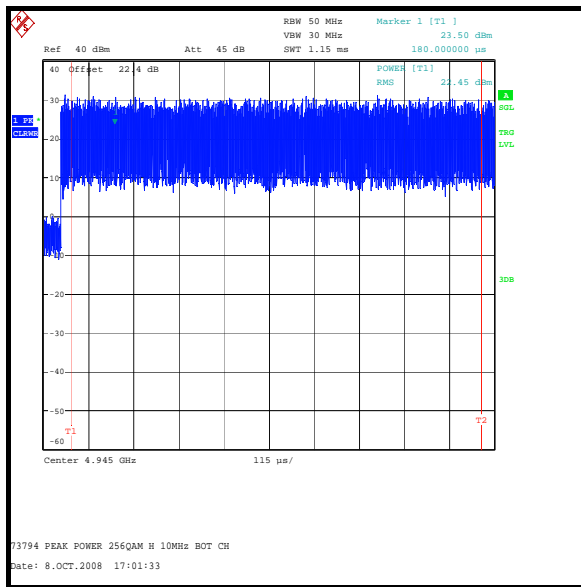
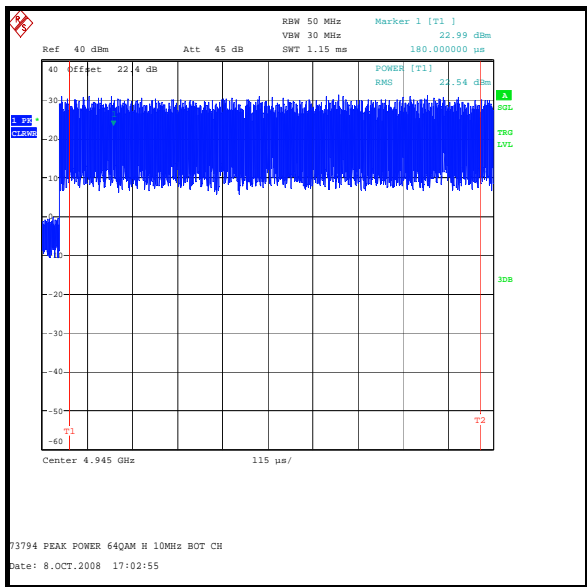
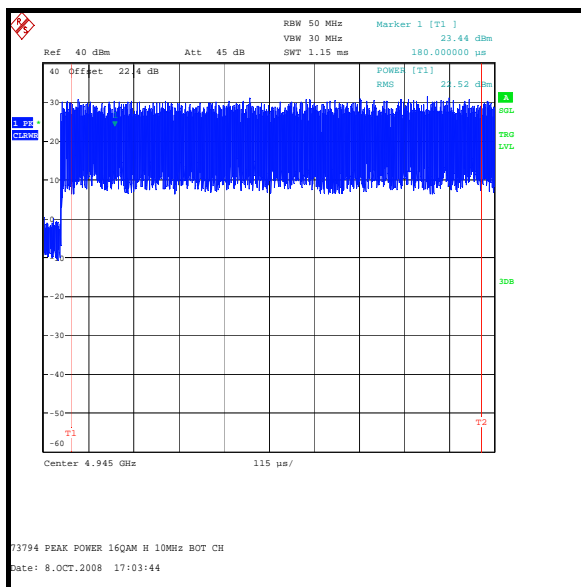
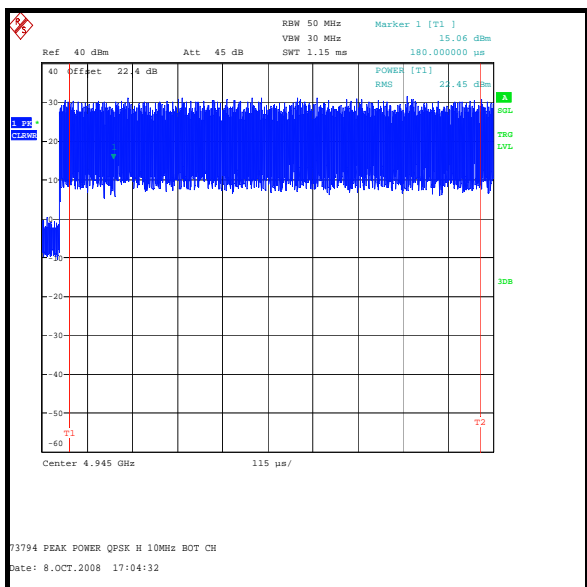
Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



Test of: Motorola
PTP49600

To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046

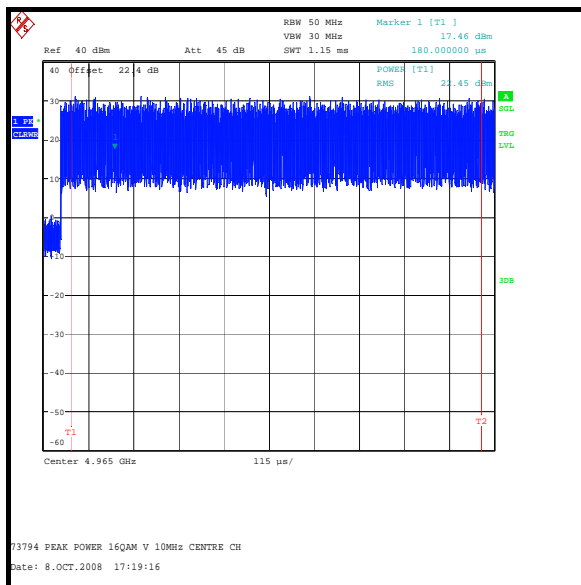
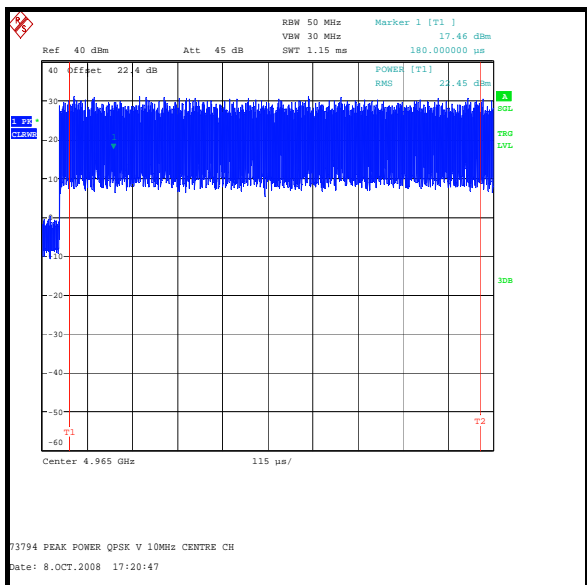
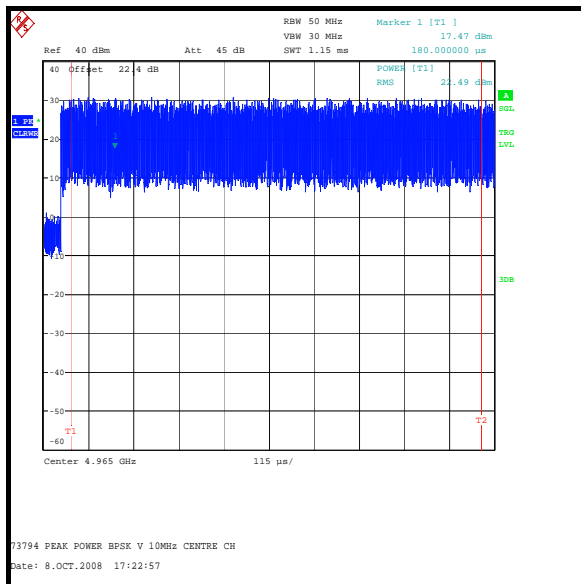
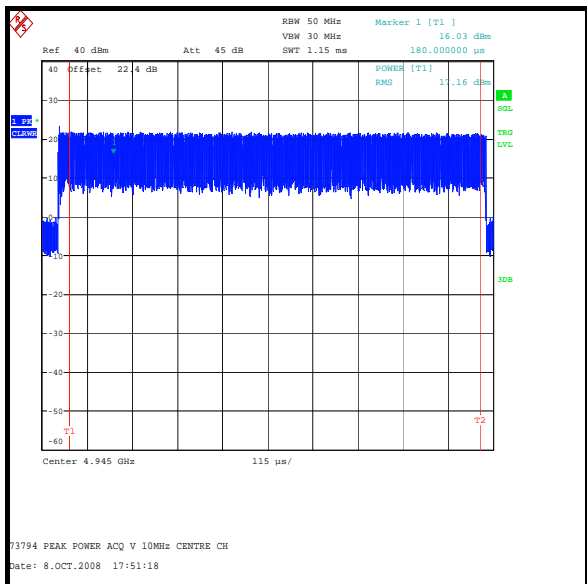
Results:

10 MHz Channel - Centre Channel

Mode	Maximum Output Power (dBm)			Limit (dBm)	Margin (dB)
	Port H	Port V	Aggregate		
ACQ	17.3	17.2	20.3	30.0	9.7
BPSK	22.7	22.5	25.6	30.0	4.4
QPSK	22.8	22.5	25.7	30.0	4.3
16QAM	22.8	22.5	25.7	30.0	4.3
64QAM	22.8	22.5	25.7	30.0	4.3
256QAM	22.9	22.4	25.7	30.0	4.3

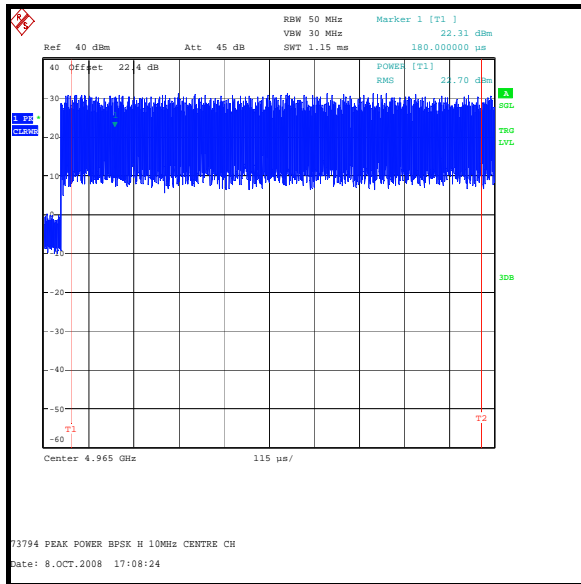
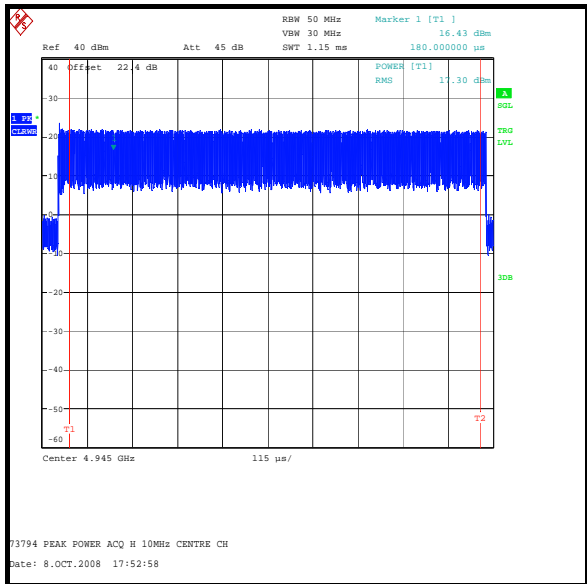
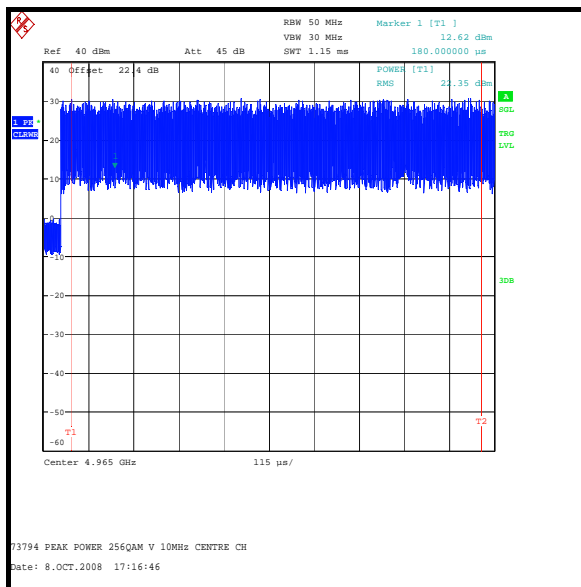
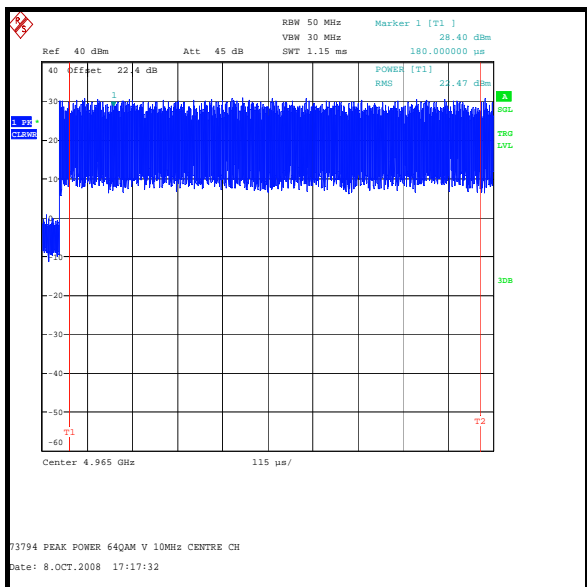
Test of: **Motorola
PTP49600**
To: **FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007**

**Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046
(Continued)**



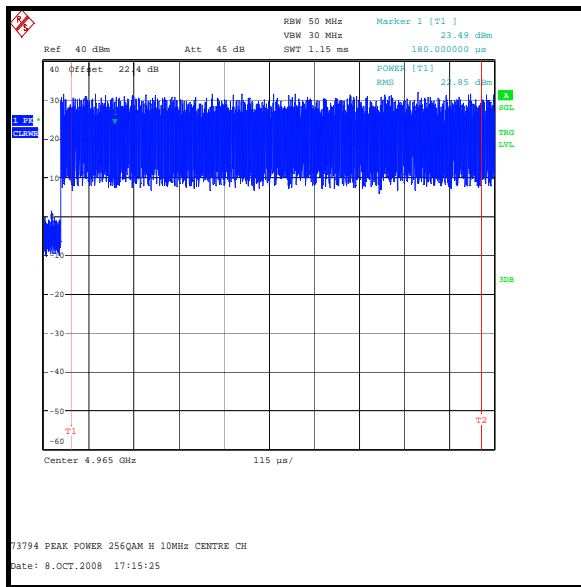
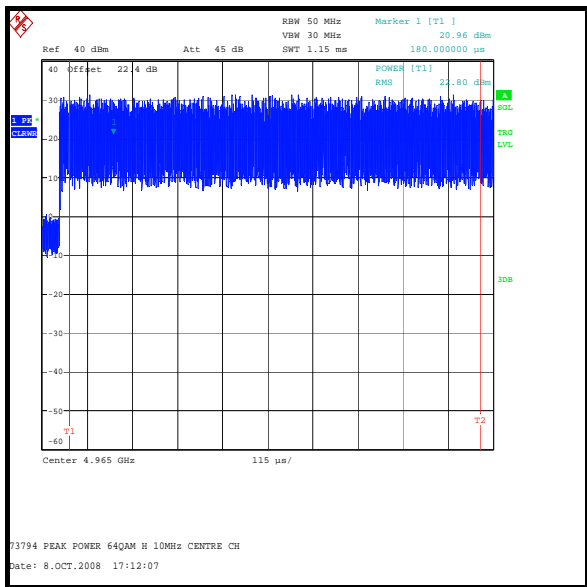
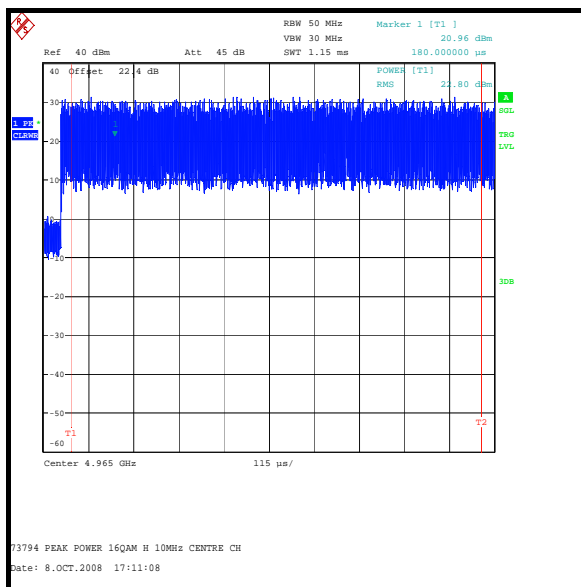
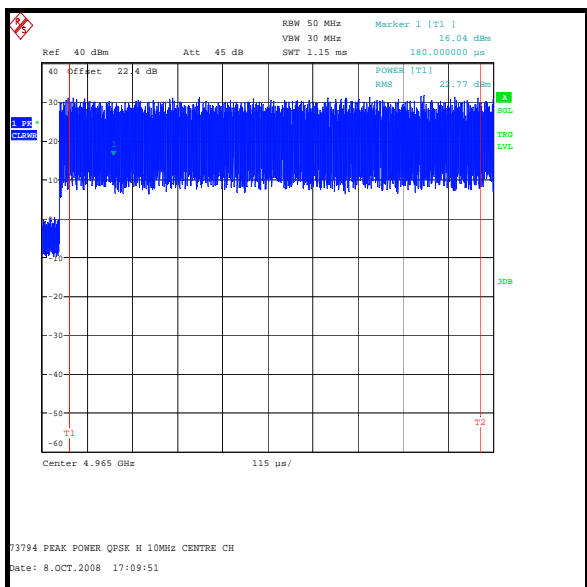
Test of: **Motorola
PTP49600**
To: **FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007**

**Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046
(Continued)**



Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



Test of: Motorola
PTP49600

To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046

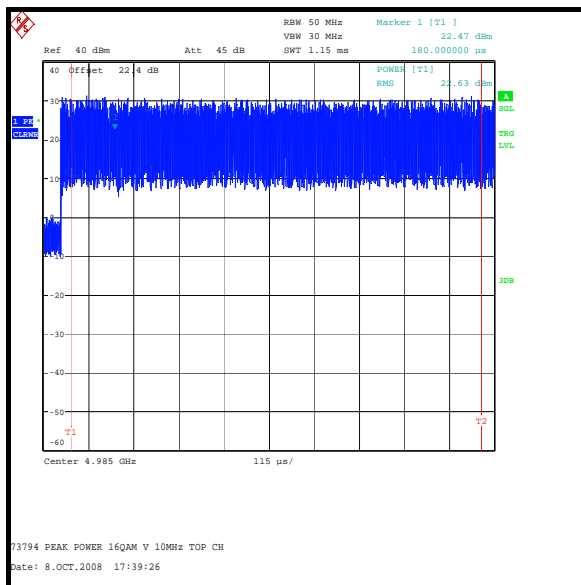
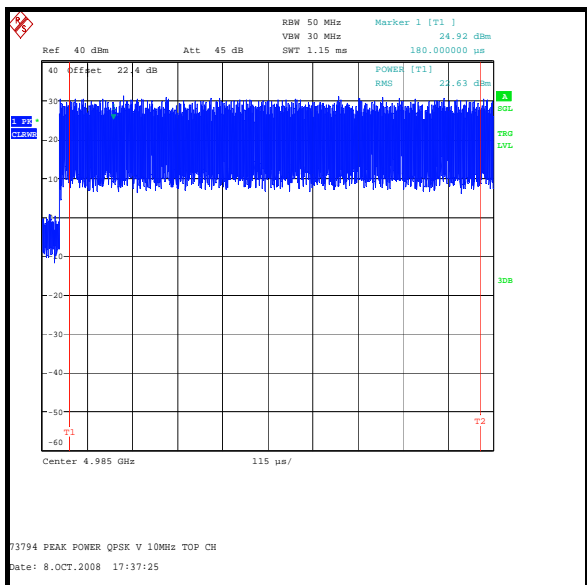
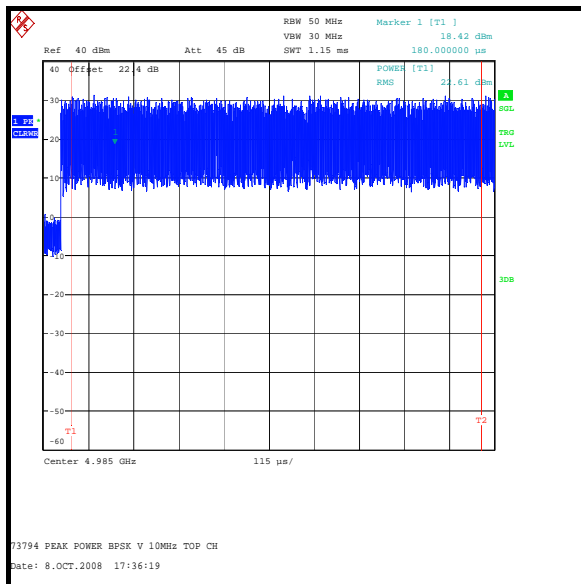
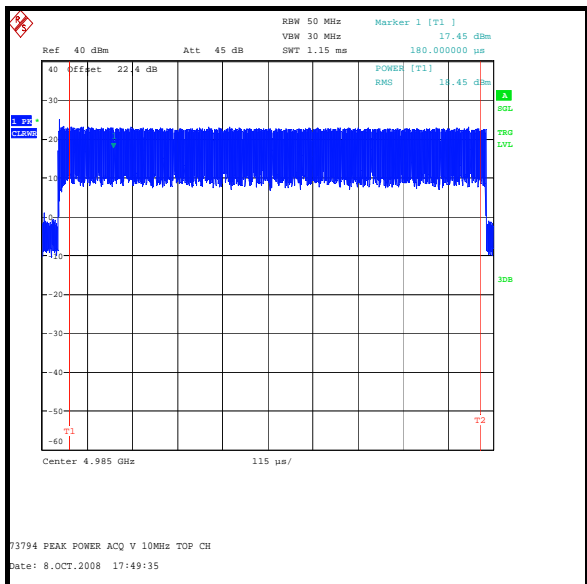
Results:

10 MHz Channel - Top Channel

Mode	Maximum Output Power (dBm)			Limit	Margin
	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	18.9	18.5	21.7	27.0	5.3
BPSK	22.6	22.6	25.6	27.0	1.4
QPSK	22.6	22.6	25.6	27.0	1.4
16QAM	22.6	22.6	25.6	27.0	1.4
64QAM	22.6	22.7	25.7	27.0	1.3
256QAM	22.5	22.7	25.6	27.0	1.4

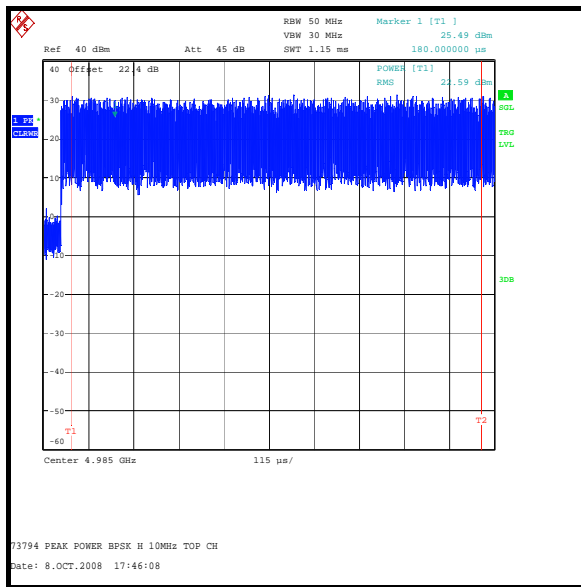
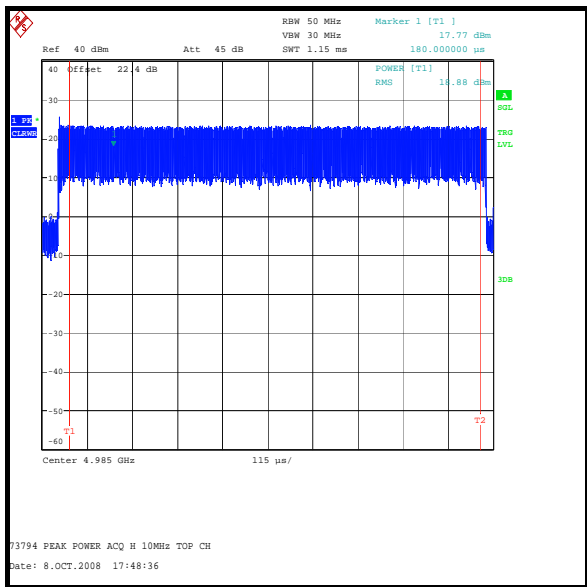
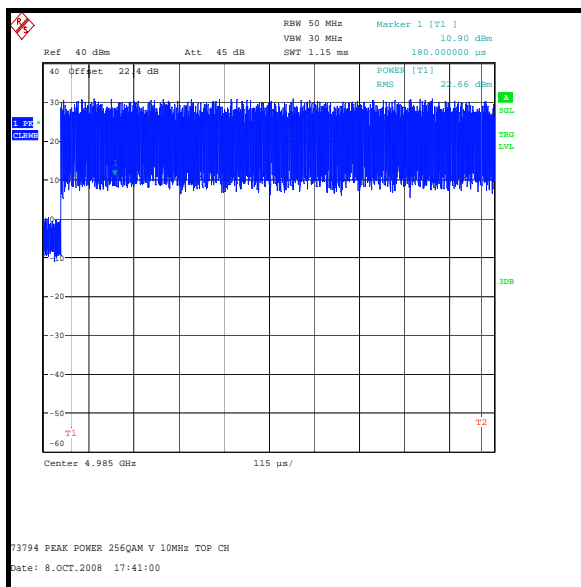
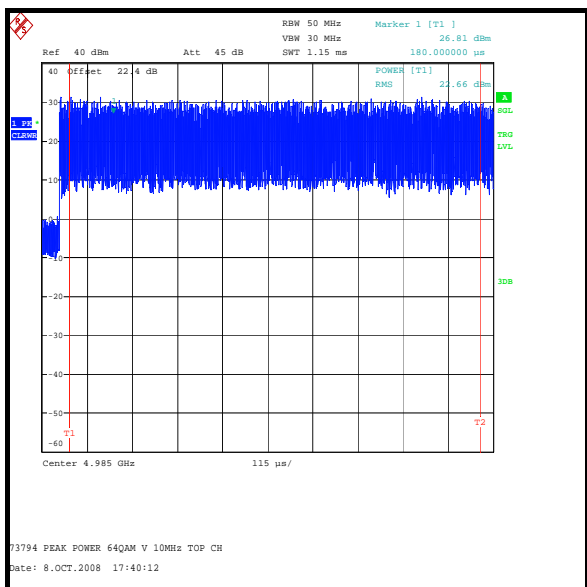
Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



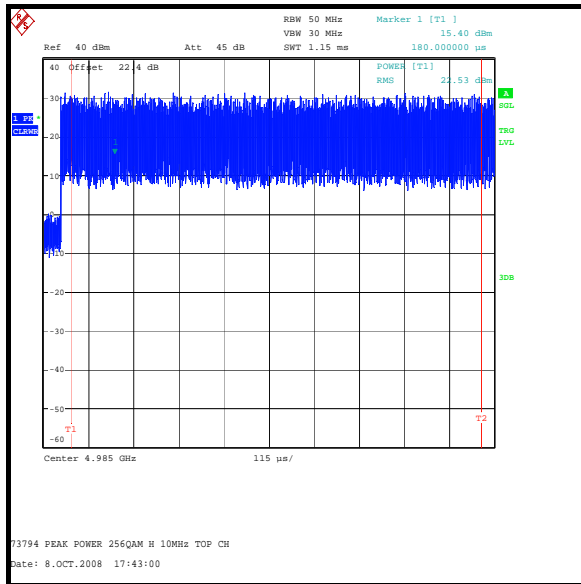
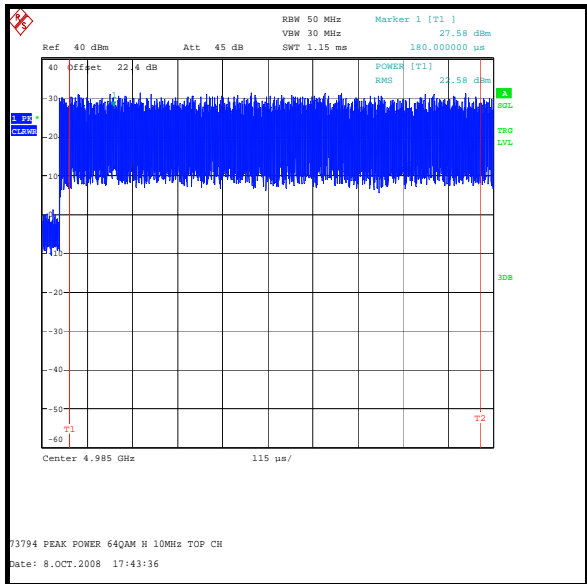
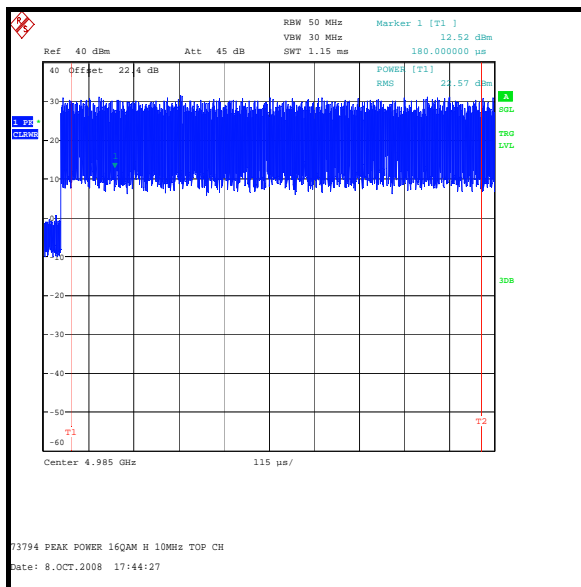
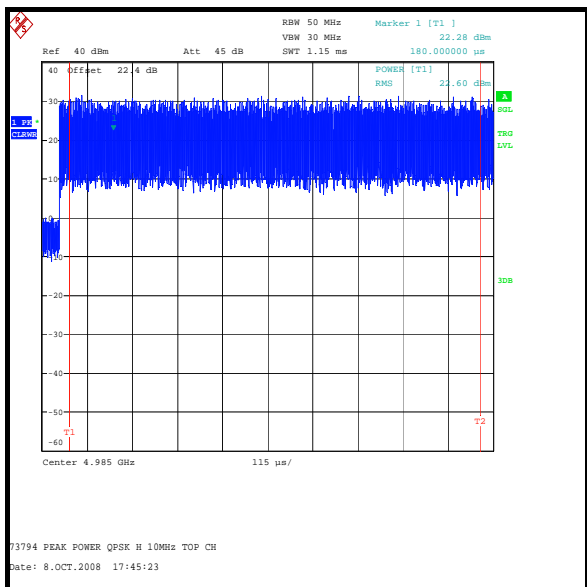
Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



Test of: **Motorola
PTP49600**
To: **FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007**

**Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046
(Continued)**



Test of: Motorola
PTP49600

To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046

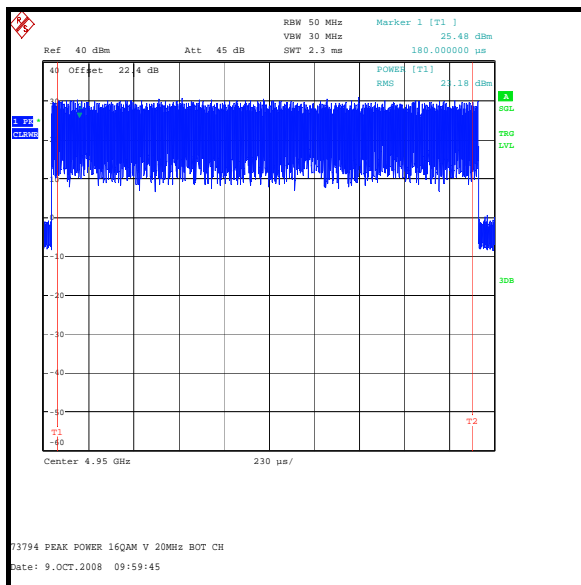
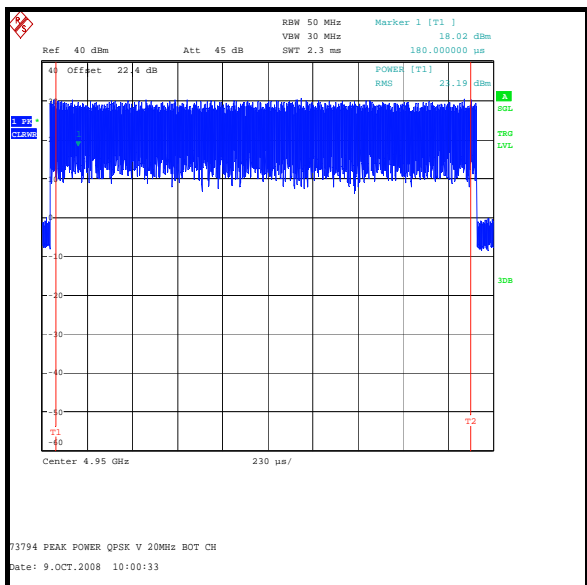
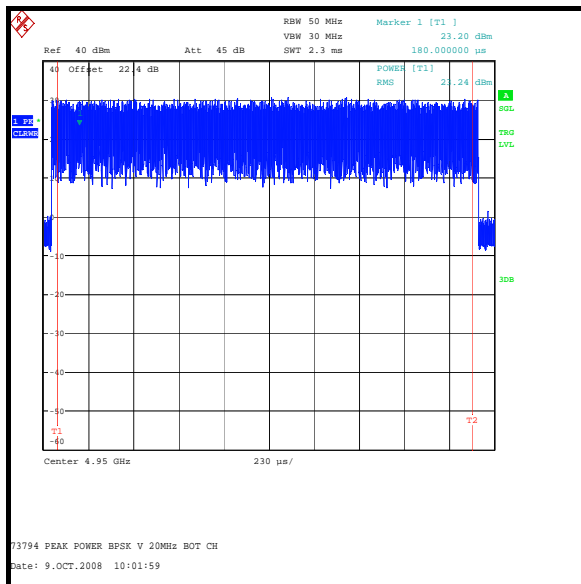
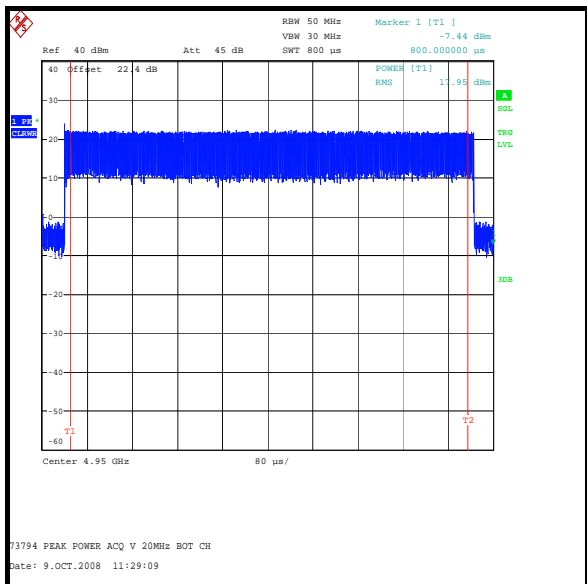
Results:

20 MHz Channel - Bottom Channel

Mode	Maximum Output Power (dBm)			Limit	Margin
	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	18.0	18.0	21.0	33.0	12.0
BPSK	23.2	23.3	26.3	33.0	6.7
QPSK	23.2	23.3	26.3	33.0	6.7
16QAM	23.2	23.3	26.3	33.0	6.7
64QAM	23.2	23.3	26.3	33.0	6.7
256QAM	23.2	23.3	26.3	33.0	6.7

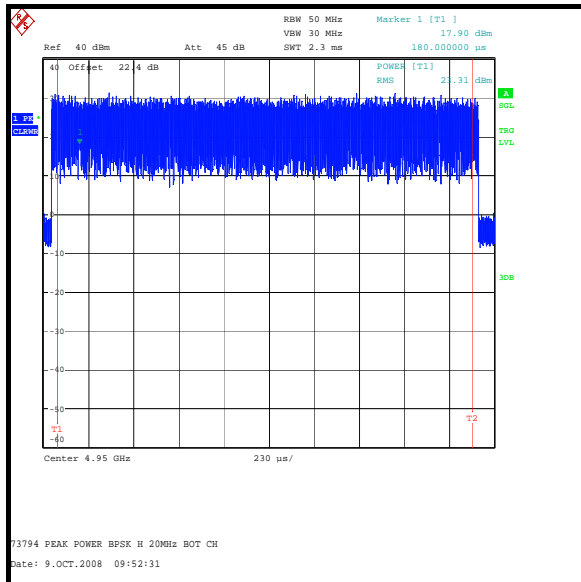
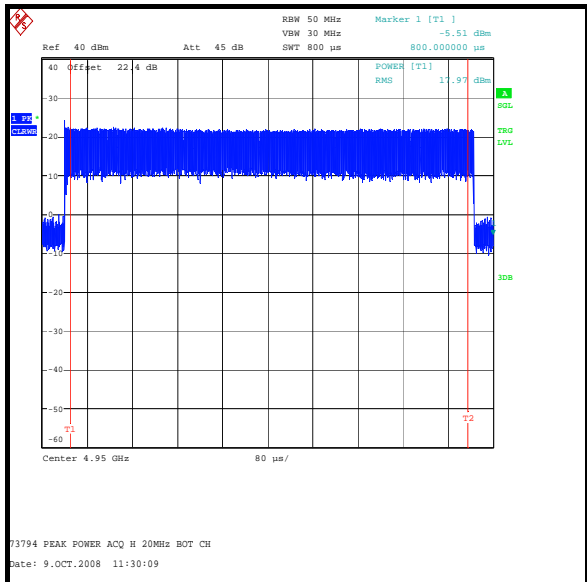
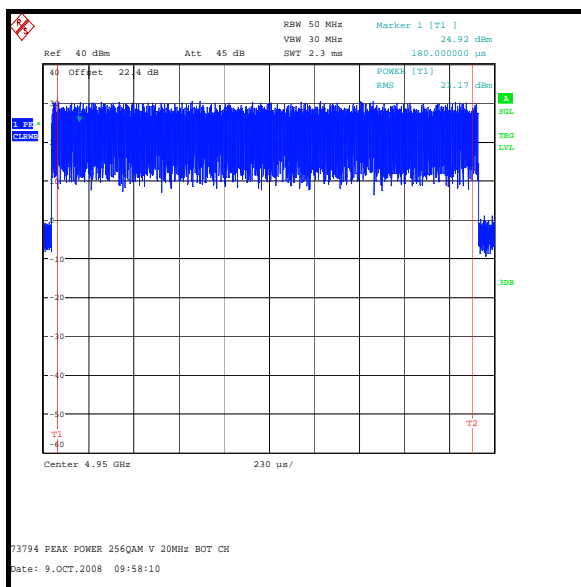
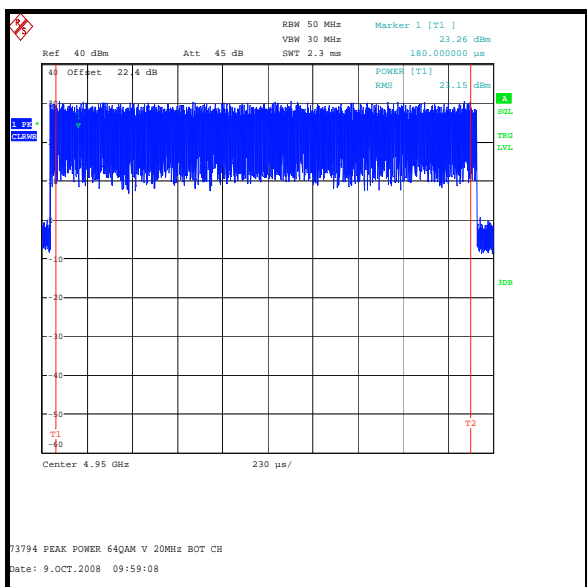
Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



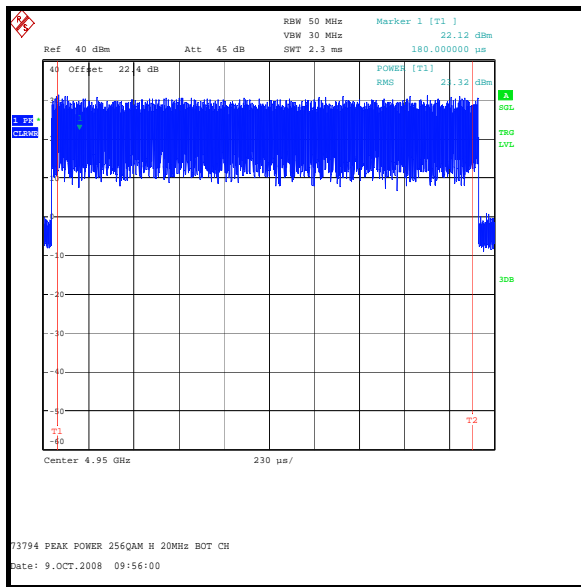
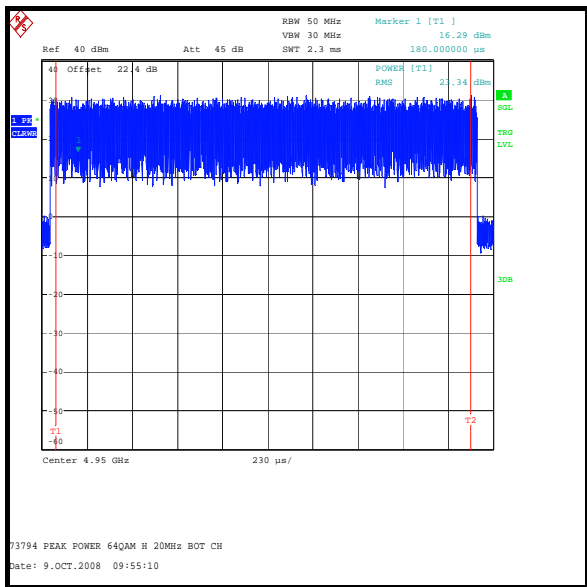
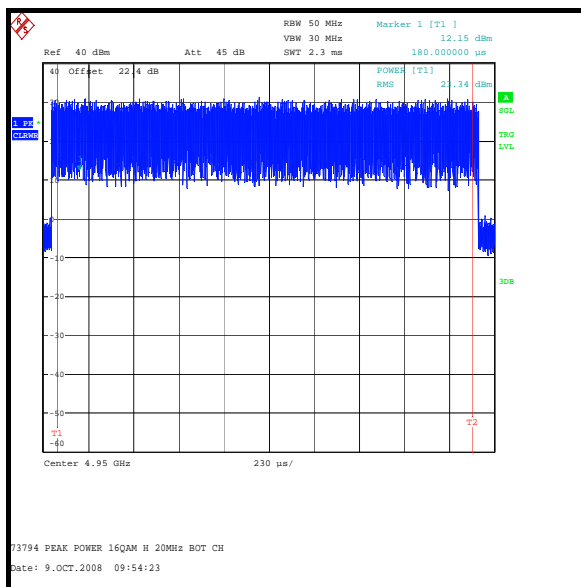
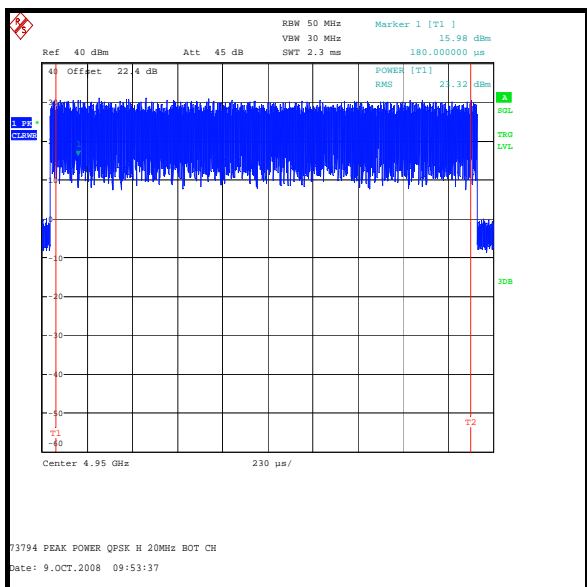
Test of: **Motorola
PTP49600**
To: **FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007**

**Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046
(Continued)**



Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



Test of: Motorola
PTP49600

To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046

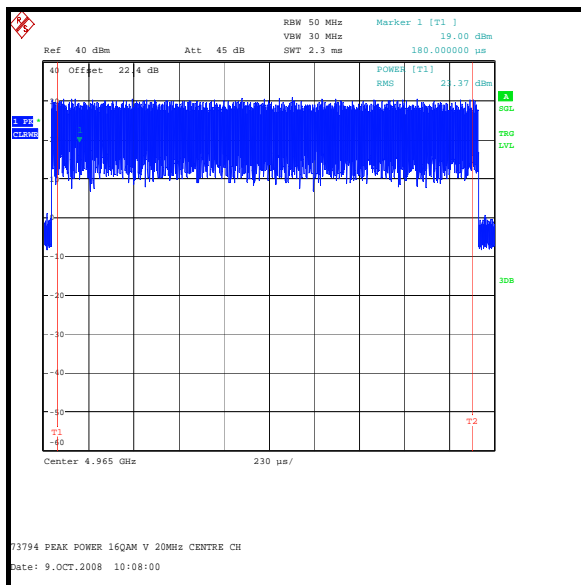
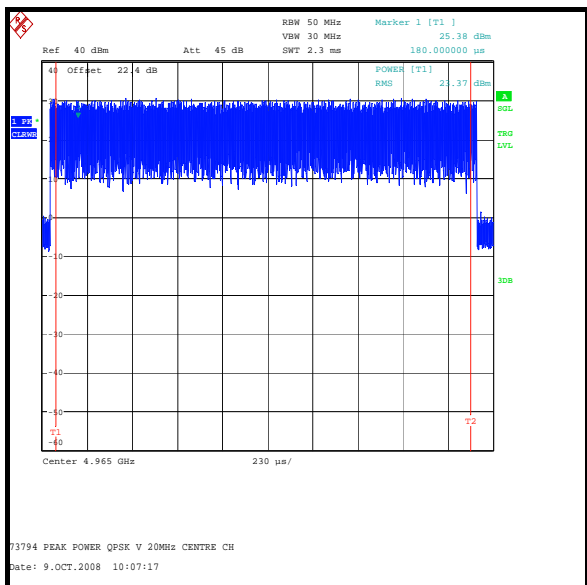
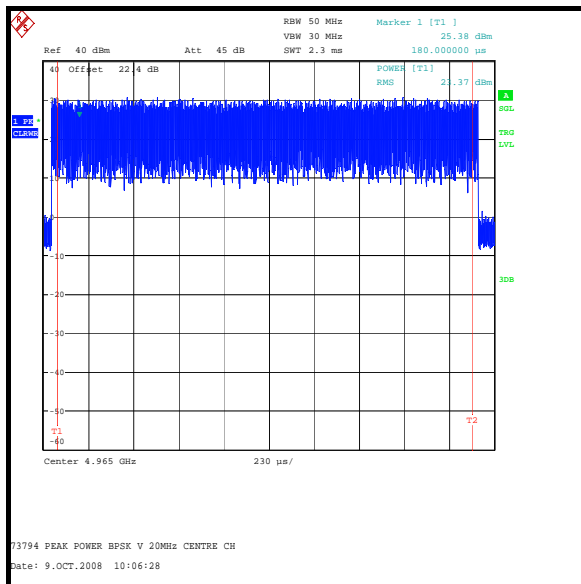
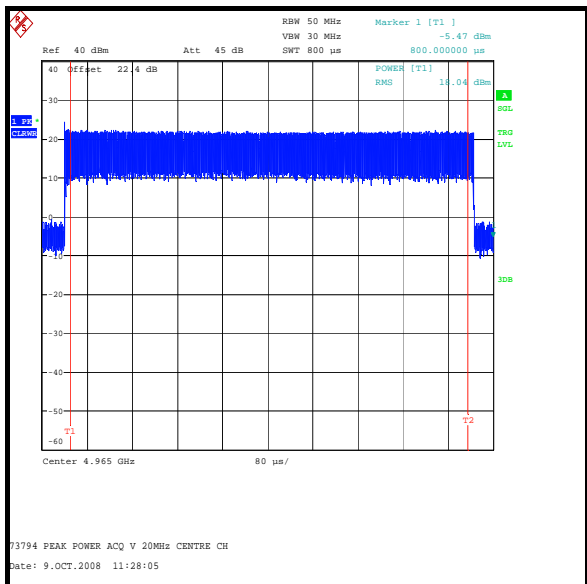
Results:

20 MHz Channel - Centre Channel

Mode	Maximum Output Power (dBm)			Limit	Margin
	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	18.6	18.0	21.3	33.0	11.7
BPSK	23.7	23.4	26.6	33.0	6.4
QPSK	23.7	23.4	26.6	33.0	6.4
16QAM	23.7	23.4	26.6	33.0	6.4
64QAM	23.7	23.4	26.6	33.0	6.4
256QAM	23.7	23.4	26.6	33.0	6.4

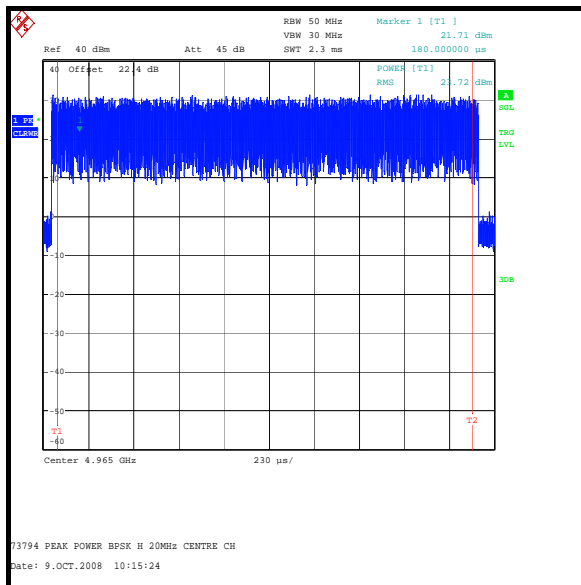
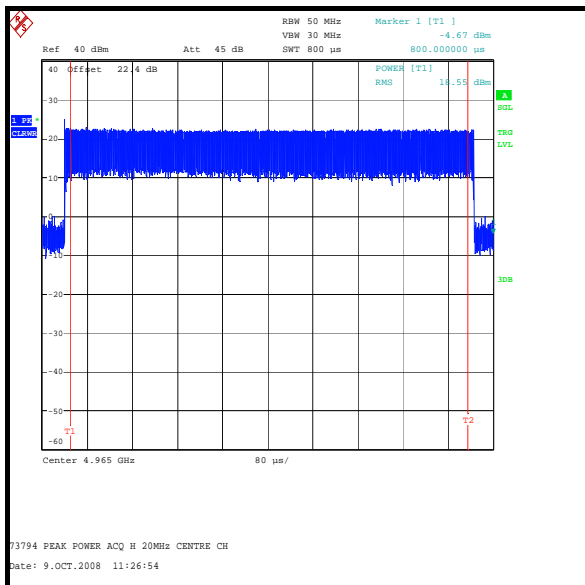
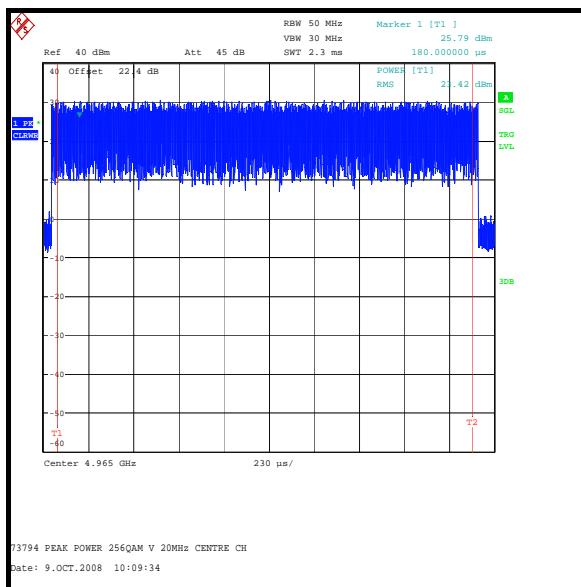
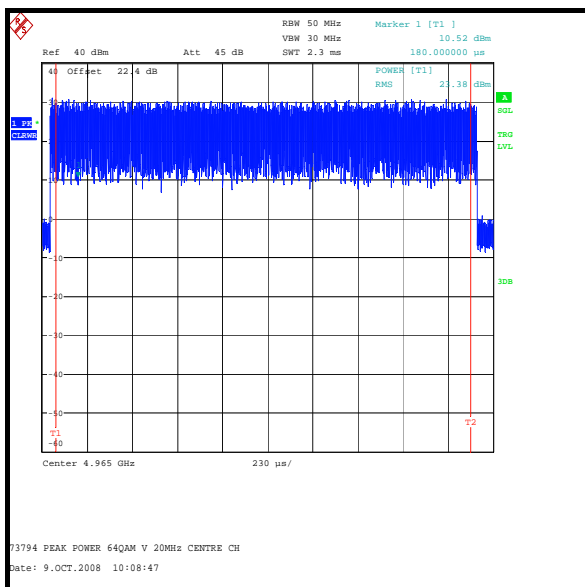
Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



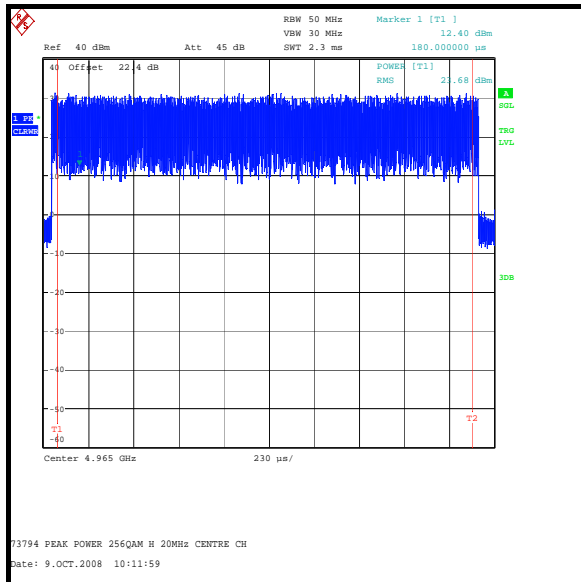
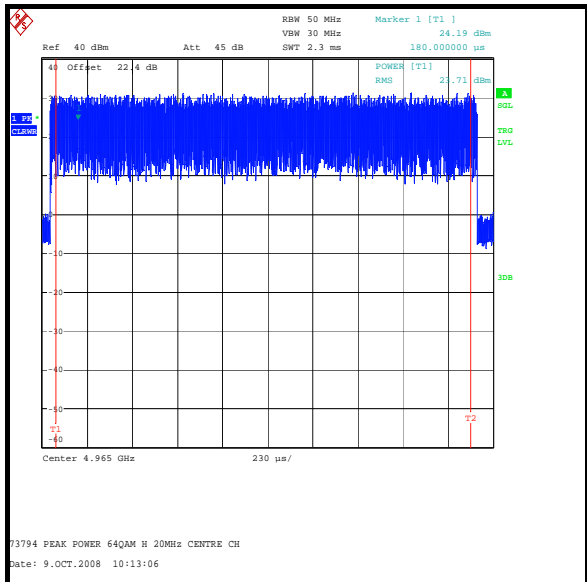
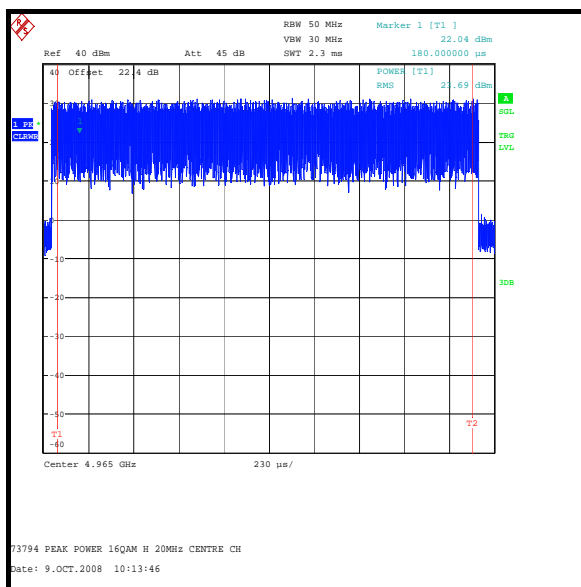
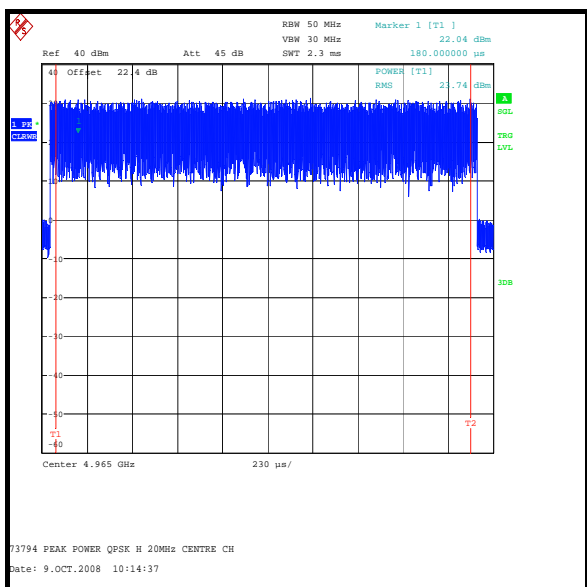
Test of: Motorola
PTP49600
To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



Test of: **Motorola
PTP49600**
To: **FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007**

**Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046
(Continued)**



Test of: Motorola
PTP49600

To: FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007

Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046

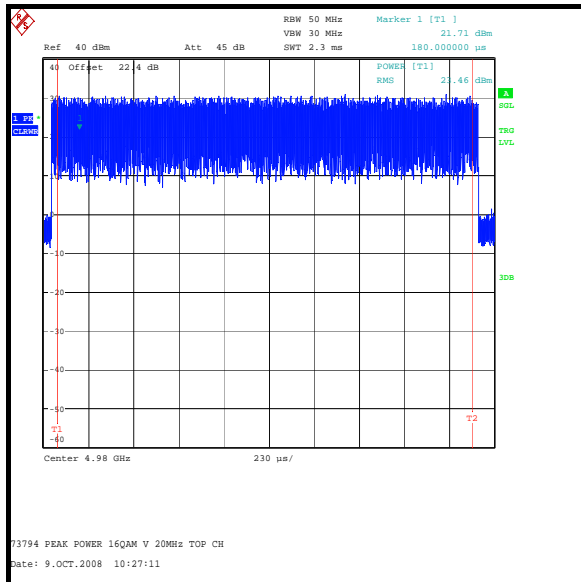
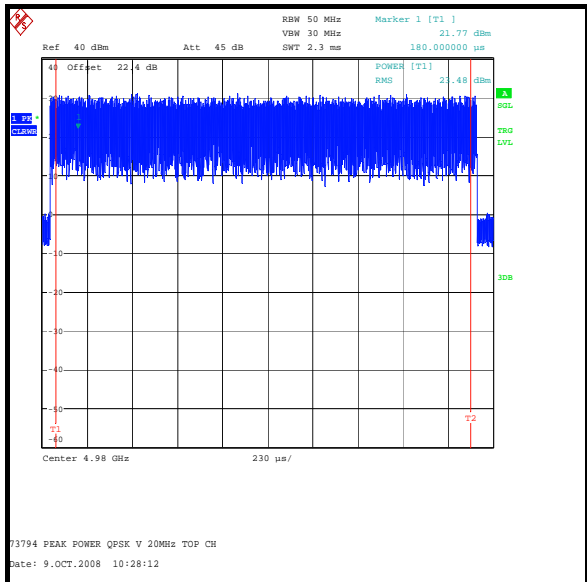
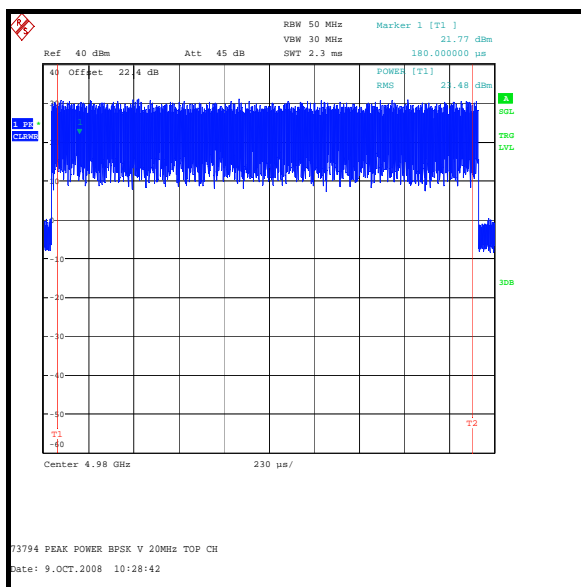
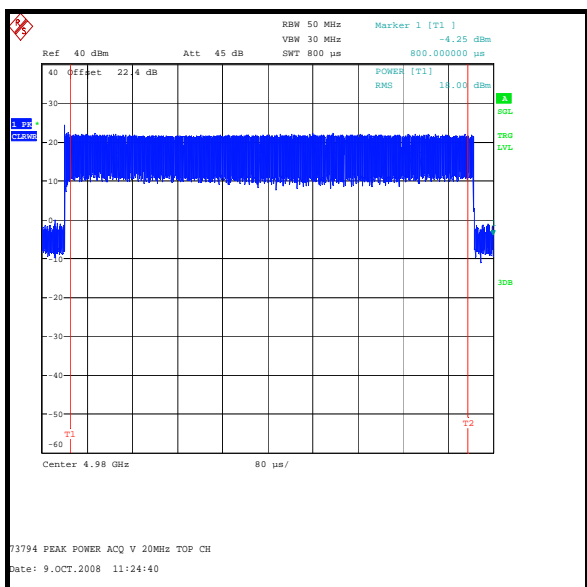
Results:

20 MHz Channel - Top Channel

Mode	Maximum Output Power (dBm)			Limit	Margin
	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	18.4	18.0	21.2	33.0	11.8
BPSK	23.9	23.5	26.7	33.0	6.3
QPSK	23.9	23.5	26.7	33.0	6.3
16QAM	23.8	23.5	26.7	33.0	6.3
64QAM	23.9	23.5	26.7	33.0	6.3
256QAM	23.9	23.4	26.7	33.0	6.3

Test of: **Motorola
PTP49600**
To: **FCC Part 90: 2007, RSS-Gen Issue 2 June 2007
and RSS-111 Issue 2 June 2007**

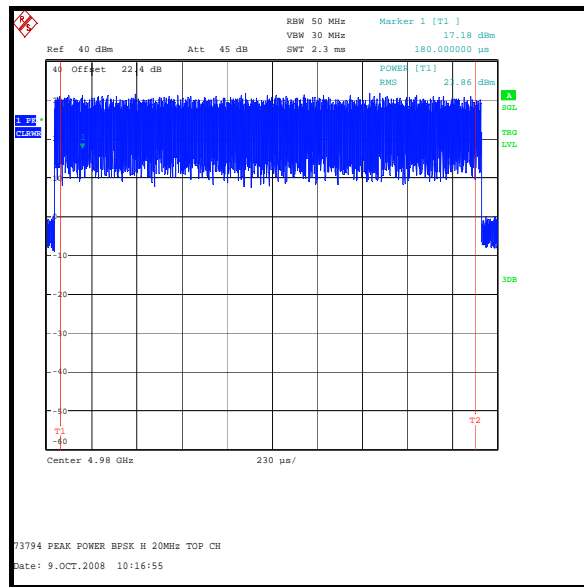
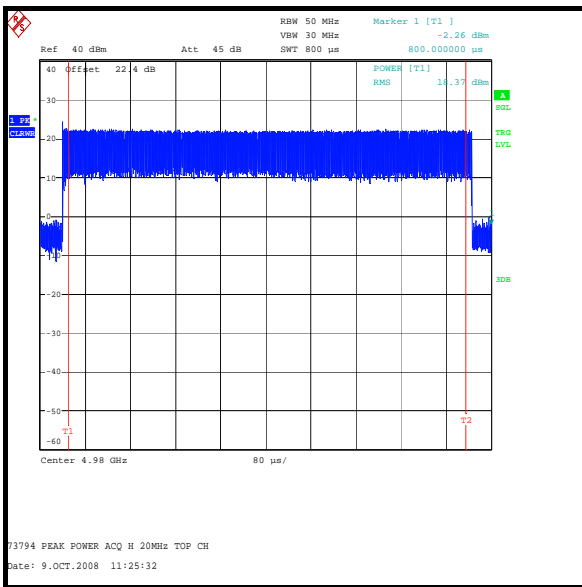
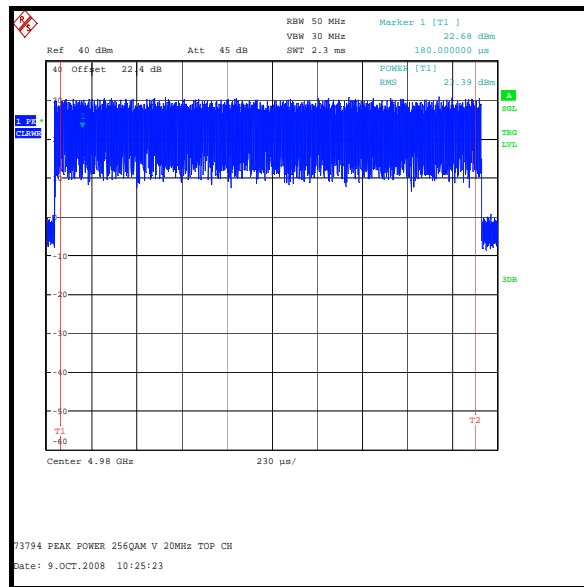
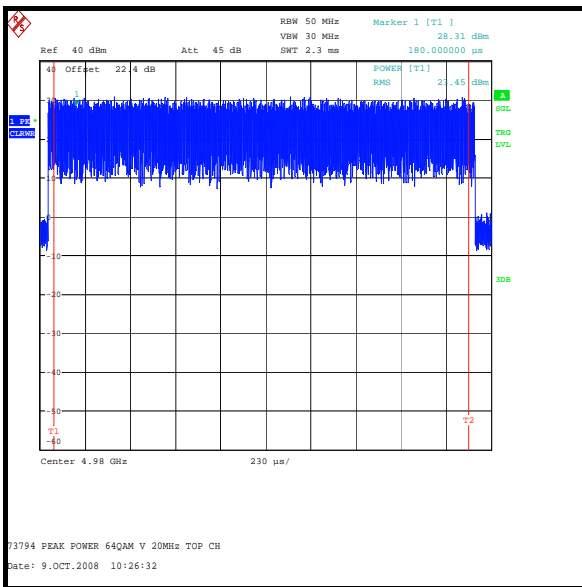
**Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046
(Continued)**



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

Test of: **Motorola
 PTP49600**
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 and RSS-111 Issue 2 June 2007**

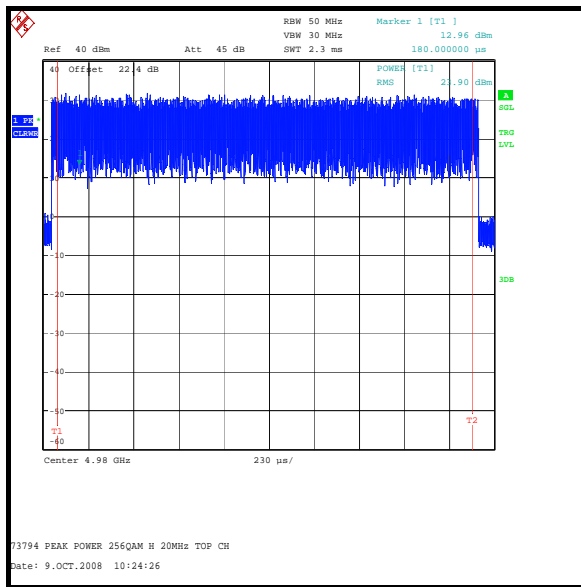
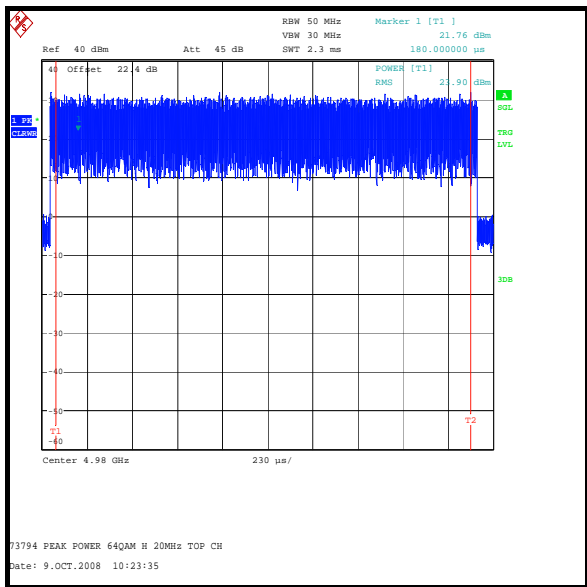
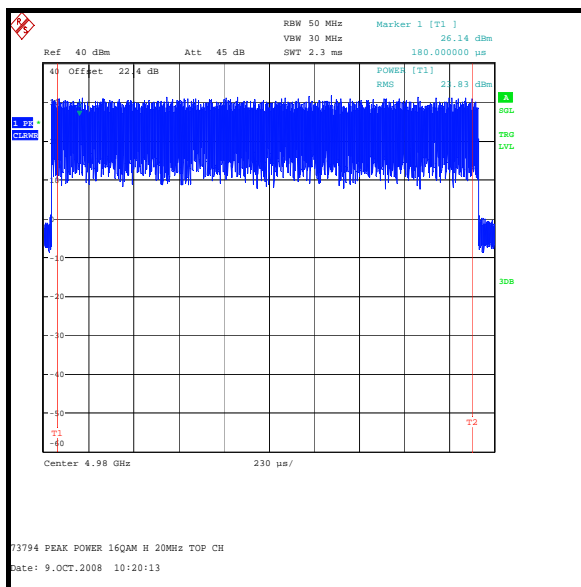
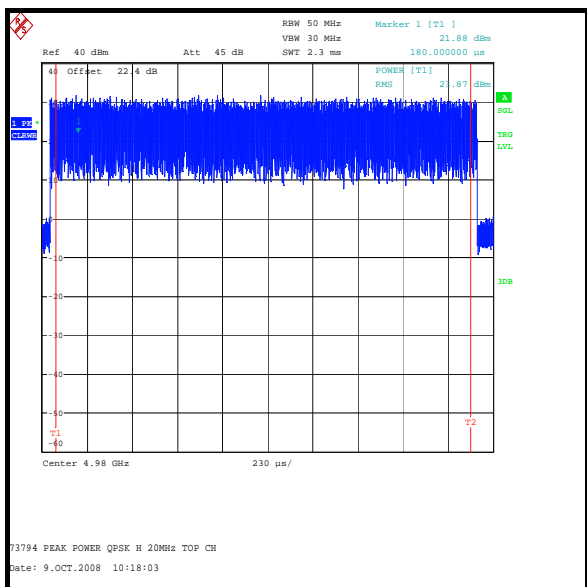
**Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046
 (Continued)**



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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Transmitter Peak Carrier Output Power (Conducted) Sections 90.205/90.1215(a)/2.1046 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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PTP49600
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7.2.2. Transmitter Peak Power Spectral Density (Conducted): Sections 90.205/90.1215(a)/2.1046

Ambient Temperature: 22°C

Relative Humidity: 49%

The transmitter peak power spectral density was measured by setting the spectrum analyser resolution bandwidth to the 1MHz and video bandwidth to 3MHz. The EUT was operated at maximum power and the result was read directly from the display as dBm/MHz.

Results:

5 MHz Channel - Bottom Channel

Peak Power Spectral Density (dBm/MHz)				Limit	Margin
Mode	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	16.5	16.0	19.3	21.0	1.7
BPSK	16.4	16.1	19.3	21.0	1.7
QPSK	16.4	16.1	19.3	21.0	1.7
16QAM	16.5	16.0	19.3	21.0	1.7
64QAM	16.4	16.1	19.3	21.0	1.7
256QAM	16.3	16.2	19.3	21.0	1.7

5 MHz Channel - Centre Channel

Peak Power Spectral Density (dBm/MHz)				Limit	Margin
Mode	Port H	Port V	Aggregate	(dBm)	(dB)
ACQ	16.4	16.4	19.4	21.0	1.6
BPSK	16.6	16.2	19.4	21.0	1.6
QPSK	16.6	16.2	19.4	21.0	1.6
16QAM	16.6	16.1	19.4	21.0	1.6
64QAM	16.7	16.1	19.4	21.0	1.6
256QAM	16.5	16.3	19.4	21.0	1.6