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CERTIFICATE OF COMPLIANCE
FCC PART 27 Certification

Applicant Name:

SAMSUNG Electronics Co., Ltd.
416, Maetan-3Dong, Yeongtong-gu, Suwon-si,
Kyungki-do, Korea

Date of Issue: February 18, 2010

Test Site/Location:

HCT, San 136-1 Ami-ri, Bubal-eup, Icheon-si,
Kyungki-do, Korea

Test Report No.: HCTR1002FR21

FCC ID : **A3LSPI-2210022502**

APPLICANT : **SAMSUNG Electronics Co., Ltd.**

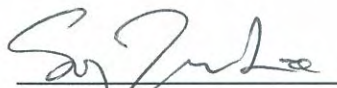
EUT Type : Mobile WiMAX Outdoor RAS
Manufacturer : SAMSUNG Electronics Co., Ltd.
Model name : SPI-2210022502
Frequency of Operation : 2496 MHz ~ 2690 MHz
2624 MHz ~ 2690 MHz
2640.5 MHz ~ 2673.5 MHz
FCC Rule Part(s) : FCC Part 27m.
Test Procedure(s) : ANSI/TIA-603C-C-2004
Application Type : Original Equipment
Data of issue : February 18, 2010

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of FCC Part 27 of the FCC Rules under normal use and maintenance.



Report prepared by
: Jong Seok Lee
Test engineer of RF Team



Approved by
: Sang Jun Lee
Manager of RF Team

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1. GENERAL INFORMATION

1.1. CLIENT INFORMATION

Company	Samsung Electronics Co., Ltd.
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1.2. PRODUCT INFORMATION

EUT TYPE	Mobile WiMAX Outdoor RAS
EMISSION DESIGNATOR	9M12G7D (QPSK), 9M13W7D(16QAM/64QAM)
OPERATING FREQUENCY	2496 MHz ~ 2596 MHz (BW : 100 MHz) 2624 MHz ~ 2690 MHz (BW : 66 MHz) 2640.5 MHz ~ 2673.5 MHz (BW : 33 MHz)
TX OUTPUT POWER	10 W (40 dBm) / Carrier / Path 20 W (43 dBm) / Carrier / Sector
CHANNEL BANDWIDTH	10 MHz
MODULATION TYPE	OFDMA(QPSK, 16QAM, 64QAM)
NUMBER OF CARRIERS/SECTORS	3 Carriers / 3 Sectors
CHANNEL CARD CAPACITY	1 Carrier / 1 Sector
SYSTEM INPUT VOLTAGE	DC -48V

1.3. INTRODUCTION OF EUT

The outdoor SPI-2210, RAS of Mobile WiMAX, is controlled by ACR and connects Mobile WiMAX calls to MS.

The outdoor SPI-2210 interfaces with MS via a wireless channel observing the Mobile WiMAX standard (IEEE 802.16) and provides high-speed data service and multimedia service in wireless broadband.

To this end, the outdoor SPI-2210 provides the following functions: modulation/demodulation of packet traffic signal, scheduling and radio bandwidth allocation to manage air resources efficiently and ensure Quality of Service (QoS), Automatic Repeat request (ARQ) processing, ranging function, connection control function to transmit the information on the outdoor SPI-2210 and set/hold/disconnect the packet call connection, handover control and ACR interface function and system operation management function.

The outdoor SPI-2210 interfaces with ACR in one way of Fast Ethernet/Gigabit Ethernet and can exchange various control signals and traffic signals stably.

The outdoor SPI-2210 is installed in the outdoor environment and managed in the omni or sector method according to the property of the installed area. In addition, the outdoor SPI-2210 supports the capacity of the maximum 3Carrier/3Sector and MIMO only with the basic cabinet.

The characteristics of the outdoor SPI-2210 are as follows:

- Application of the OFDMA Method
- Support of Broadband Channel Bandwidth
- Support of 3Carrier/3Sector
- Support of MIMO
- Support of Frequency Reuse Pattern (FRP)
- Support of 4-Branch Rx Diversity (Optional)
- Support of Various Frequency Allocation
- Support of Beamforming (Option)

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2. TEST SUMMARY

2.1. STANDARDS

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance With **FCC Part 27**

SECTION	TEST ITEMS	RESULTS
2.1046, 27.50(h)	Conducted Output Power	Compliant
2.1049, 27.53(l)	Occupied Bandwidth	Compliant
2.1051, 27.53(l)	Spurious Emissions at Antenna Terminals	Compliant
2.1051, 27.53(l)	Band edge	Compliant
2.1053, 27.53(l)	Spurious Radiated Emissions.	Compliant
2.1055(a)(1), 27.54	Frequency Stability over Temperature variation	Compliant
2.1055(d), 27.54	Frequency stability over Voltage variation	Compliant

2.2. MODE OF OPERATION DURING THE TEST

The EUT was operated in a manner representative of the typical usage of the equipment.

During all testing, system components were manipulated within the confines of typical usage to maximize each emission. All Modulation (QPSK, 16QAM, and 64QAM) modes were tested, and the worst data was recorded in this test report.

The device does not supply antenna(s) with the system, so the dummy loads were connected to the RF output ports for radiated spurious emission testing.

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3. STANDARDS ENVIRONMENTAL TEST CONDITIONS

Temperature :	+ 15 °C to + 35 °C
Relative humidity:	30 % to 60 %
Air pressure	860 mbar to 1060 mbar

4. TEST EQUIPMENT

Manufacturer	Model / Equipment	Serial No.	Calibration Due
Schwarzbeck	BBHA 9120D / Double Ridged Horn Antenna	296	09/23/2010
Schwarzbeck	BBHA 9120D / Double Ridged Horn Antenna	147	03/26/2010
Schwarzbeck	VULB 9160 / TRILOG Antenna	9160-3150	12/18/2010
Schwarzbeck	VULB 9160 / TRILOG Antenna	3125	05/06/2011
HD	MA240 / Antenna Position Tower	556	N/A
EMCO	1050 / Turn Table	114	N/A
HD GmbH	HD 100 / Controller	13	N/A
HD GmbH	KMS 560 / SlideBar	12	N/A
MITEQ	AMF-60-0010 1800-35-20P	1200937	05/20/2010
Schwarzbeck	BBHA9170 / SHF-EHF Horn Antenna	BBHA9170342	03/20/2011
R&S	ESI40 / EMI TEST Receiver	831564/003	10/30/2010
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	1	06/29/2010
Nang-Yeul	NY-THR18750 / Temp	NY-200912201A	12/28/2010
Agilent	87302C / Power Divider	3239A01051	03/16/2010
Agilent	6674A / DC Power Supply	3501A00901	05/14/2010
WEINSCHEL	67-30-33 / Attenuator	BU5347	01/06/2011
WEINSCHEL	67-30-33 / Attenuator	BR0530	01/14/2011
WEINSCHEL	AF117A-69-43 / STEP ATTENUATOR	20623	01/14/2011
WEINSCHEL	AF117A-69-43 / STEP ATTENUATOR	21207	01/06/2011
Agilent	N9020A / MXA Signal Analyzer	US46220219	02/19/2010

5. CONDUCTED OUTPUT POWER

5.1. Applicable Standard

According to FCC §2.1046 & 27.5(h)

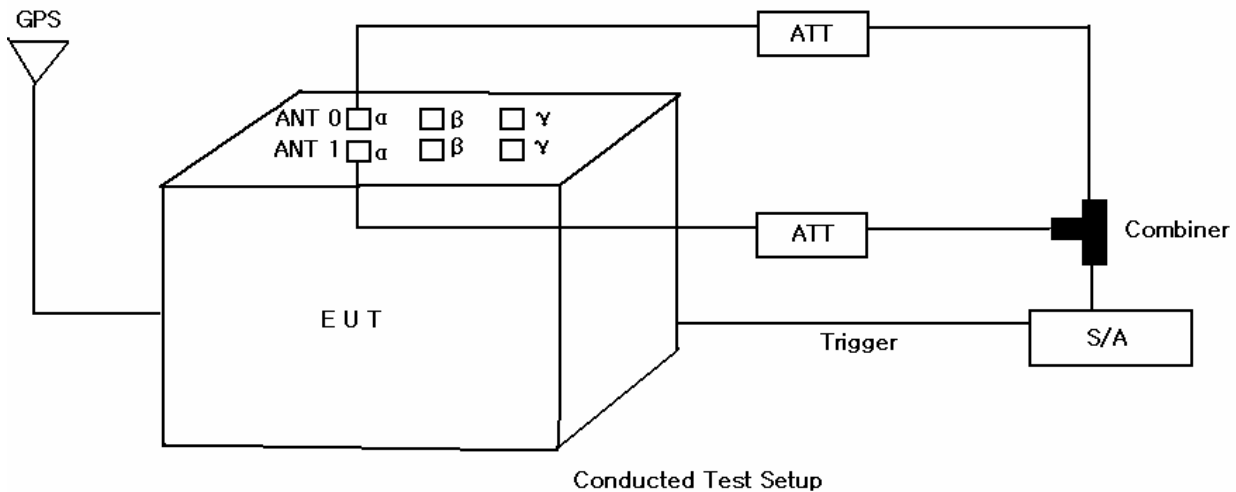
1) *Main, booster and base stations.* (i) The maximum EIRP of a main, booster or base station shall not exceed $33 \text{ dBW} + 10\log(X/Y) \text{ dBW}$, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition, except as provided in paragraph (h)(1)(ii) of this section.

5.2. Test Equipment List and Details

Manufacturer	Model / Equipment	Serial No.	Calibration Due
Agilent	87302C / Power Divider	3239A01051	03/16/2010
Agilent	6674A / DC Power Supply	3501A00901	05/14/2010
WEINSCHEL	67-30-33 / Attenuator	BU5347	01/06/2011
WEINSCHEL	67-30-33 / Attenuator	BR0530	01/14/2011
WEINSCHEL	AF117A-69-43 / STEP ATTENUATOR	20623	01/14/2011
WEINSCHEL	AF117A-69-43 / STEP ATTENUATOR	21207	01/06/2011
Agilent	N9020A / MXA Signal Analyzer	US46220219	02/19/2010

5.3. Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.



According to FCC §2.1046 (A), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

- 1) The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The loss of the cables the test system is calibrated to correct the reading.
- 2) The spectrum analyzer was set to RMS Detector function and Maximum hold mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.
- 4) PAR is measured by using CCDF function of Spectrum Analyzer. Info BW is equal to EUT's emission bandwidth.

5.3.1. Environmental Conditions:

Temperature:	27 °C
Relative Humidity:	37 %

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5.4. Test Result

: PASS

5.4.1. Test Data at Output Port Alpha 0

Modulation	Channel	Frequency	Measured Output Power	
			dBm	W
QPSK	Low	2508.5	39.75	9.44
	Middle	2551.5	39.30	8.51
	High	2590.0	39.46	8.83
16QAM	Low	2508.5	39.69	9.31
	Middle	2551.5	39.27	8.45
	High	2590.0	39.65	9.23
64QAM	Low	2508.5	39.66	9.25
	Middle	2551.5	39.41	8.73
	High	2590.0	39.75	9.44

5.4.2. Combined Test Data at Output Port

Modulation	Channel	Frequency	Measured Output Power	
			dBm	W
QPSK	Low	2508.5	42.62	18.28
	Middle	2551.5	42.56	18.03
	High	2590.0	42.60	18.20
16QAM	Low	2508.5	42.19	16.56
	Middle	2551.5	41.87	15.38
	High	2590.0	42.10	16.22
64QAM	Low	2508.5	42.49	17.74
	Middle	2551.5	41.95	15.67
	High	2590.0	42.10	16.22

5.4.3. Test Data at Output Port Beta 0

Modulation	Channel	Frequency	Measured Output Power	
			dBm	W
QPSK	Low	2630.5	39.71	9.35
	Middle	2650.5	40.33	10.79
	High	2683.5	39.59	9.10
16QAM	Low	2630.5	39.61	9.14
	Middle	2650.5	40.40	10.96
	High	2683.5	39.69	9.31
64QAM	Low	2630.5	39.63	9.18
	Middle	2650.5	40.33	10.79
	High	2683.5	39.65	9.23

5.4.4. Combined Test Data at Output Port

Modulation	Channel	Frequency	Measured Output Power	
			dBm	W
QPSK	Low	2630.5	42.41	17.42
	Middle	2650.5	42.92	19.59
	High	2683.5	42.83	19.19
16QAM	Low	2630.5	42.09	16.18
	Middle	2650.5	42.68	18.54
	High	2683.5	42.45	17.58
64QAM	Low	2630.5	42.21	16.63
	Middle	2650.5	42.92	19.59
	High	2683.5	42.77	18.92

5.4.5. Test Data at Output Port Gamma 0

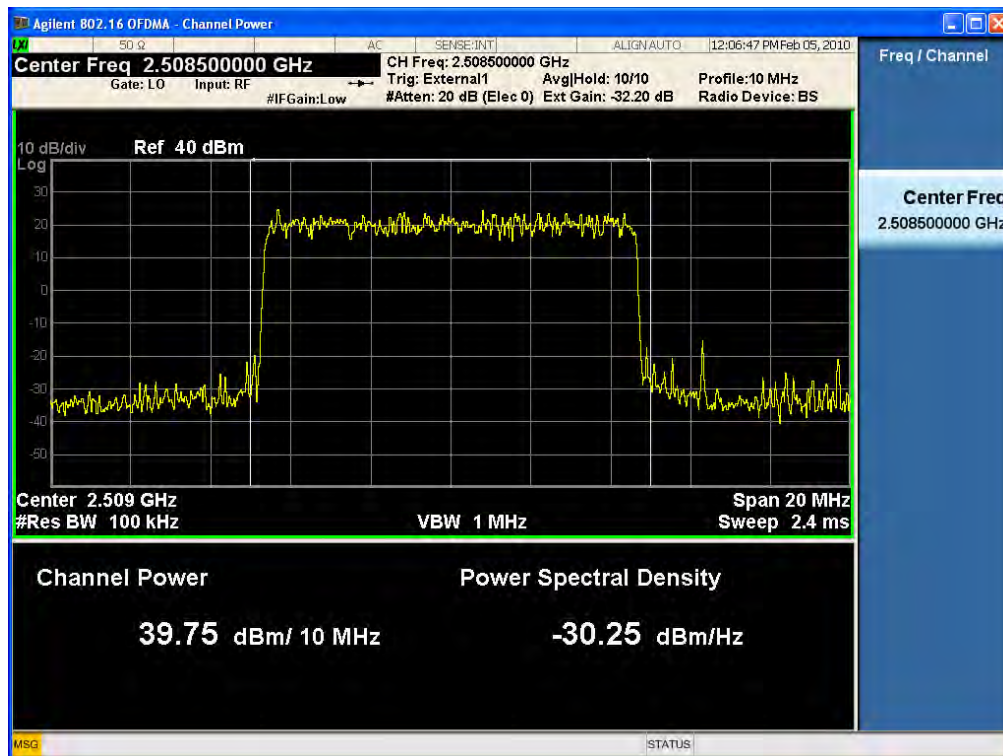
Modulation	Channel	Frequency	Measured Output Power	
			dBm	W
QPSK	Low	2647	39.41	8.73
	Middle	2657	39.41	8.73
	High	2667	39.59	9.10
16QAM	Low	2647	39.53	8.97
	Middle	2657	39.39	8.69
	High	2667	39.44	8.79
64QAM	Low	2647	39.42	8.75
	Middle	2657	39.37	8.65
	High	2667	39.41	8.73

5.4.6. Combined Test Data at Output Port

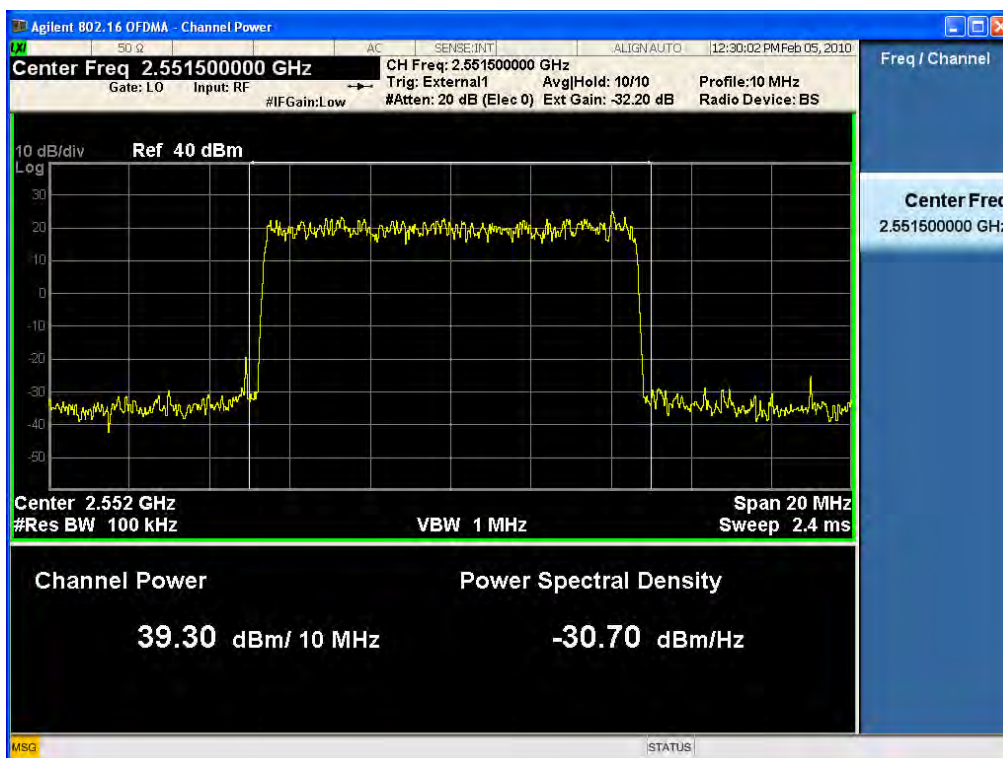
Modulation	Channel	Frequency	Measured Output Power	
			dBm	W
QPSK	Low	2647	42.66	18.45
	Middle	2657	43.10	20.42
	High	2667	42.32	17.06
16QAM	Low	2647	43.37	21.73
	Middle	2657	43.08	20.32
	High	2667	42.32	17.06
64QAM	Low	2647	42.54	17.95
	Middle	2657	43.26	21.18
	High	2667	42.16	16.44

5.4.7. Plot Data for Output Alpha 0 (Conducted Output Power)

(QPSK Low Channel)

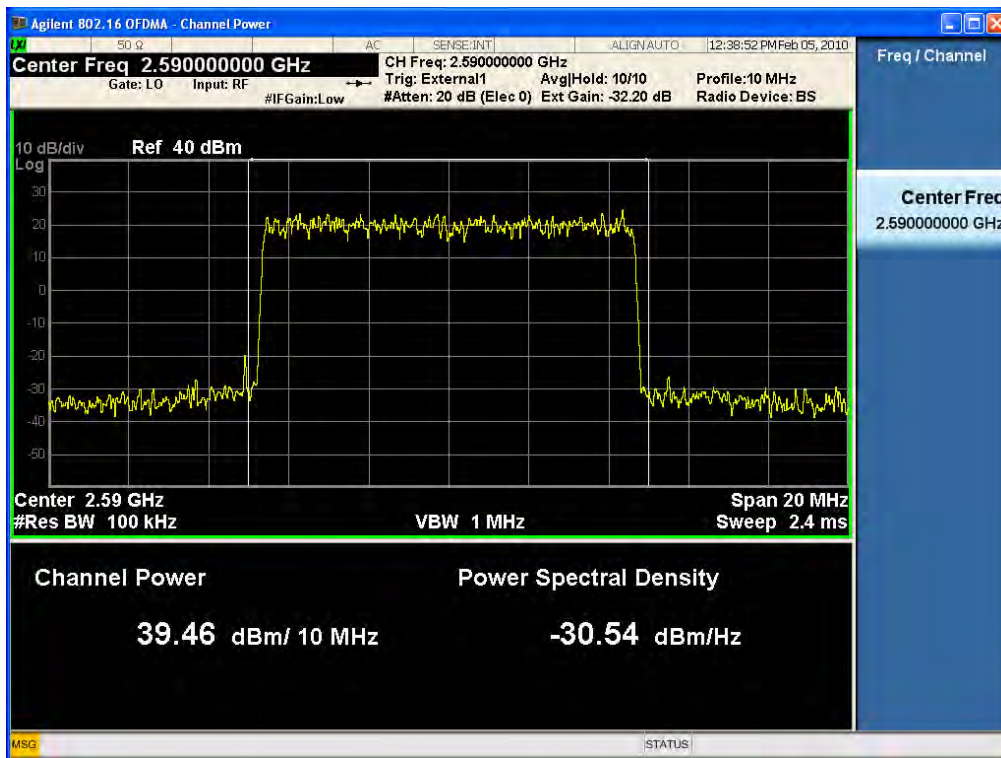


(QPSK Middle Channel)

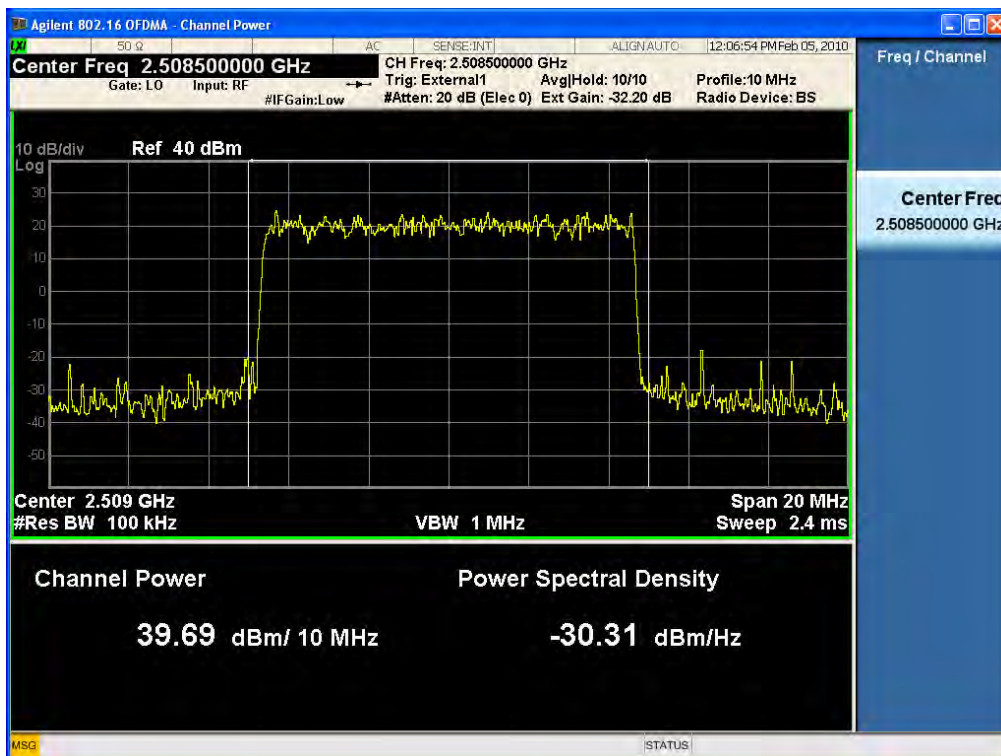


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(QPSK High Channel)

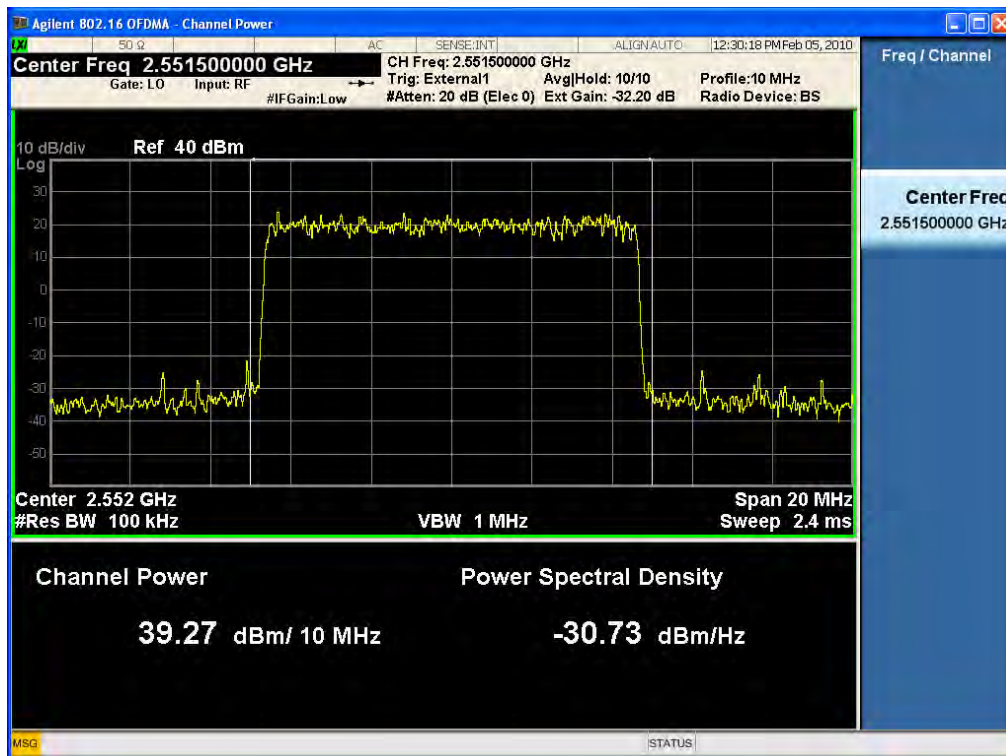


(16QAM Low Channel)

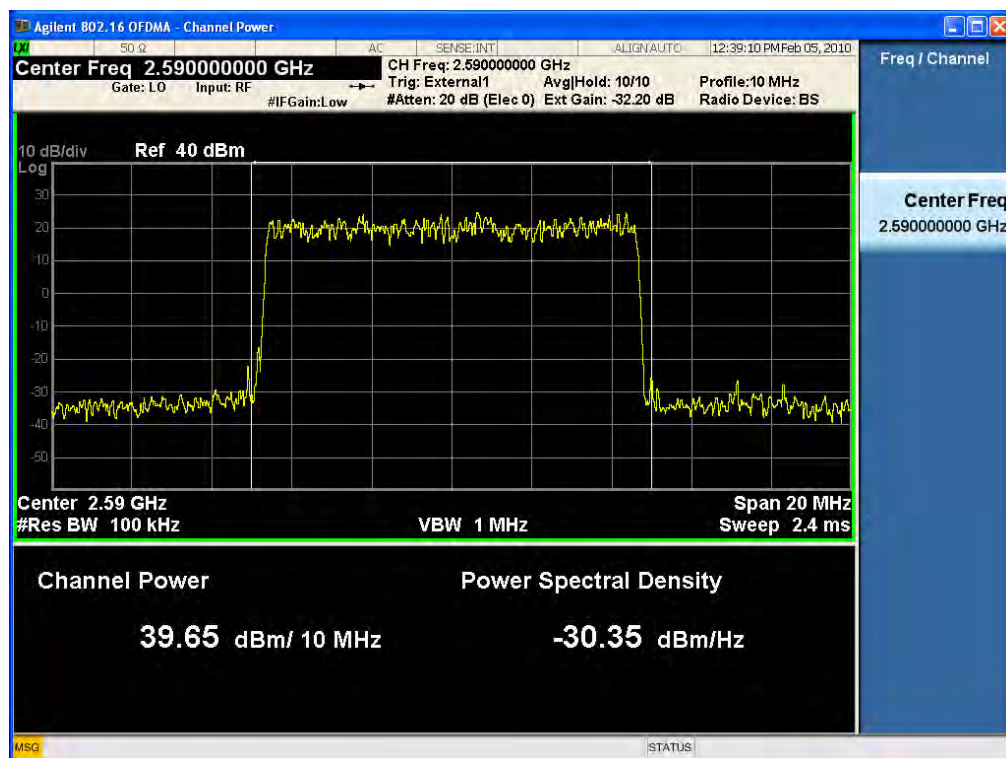


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(16QAM Middle Channel)

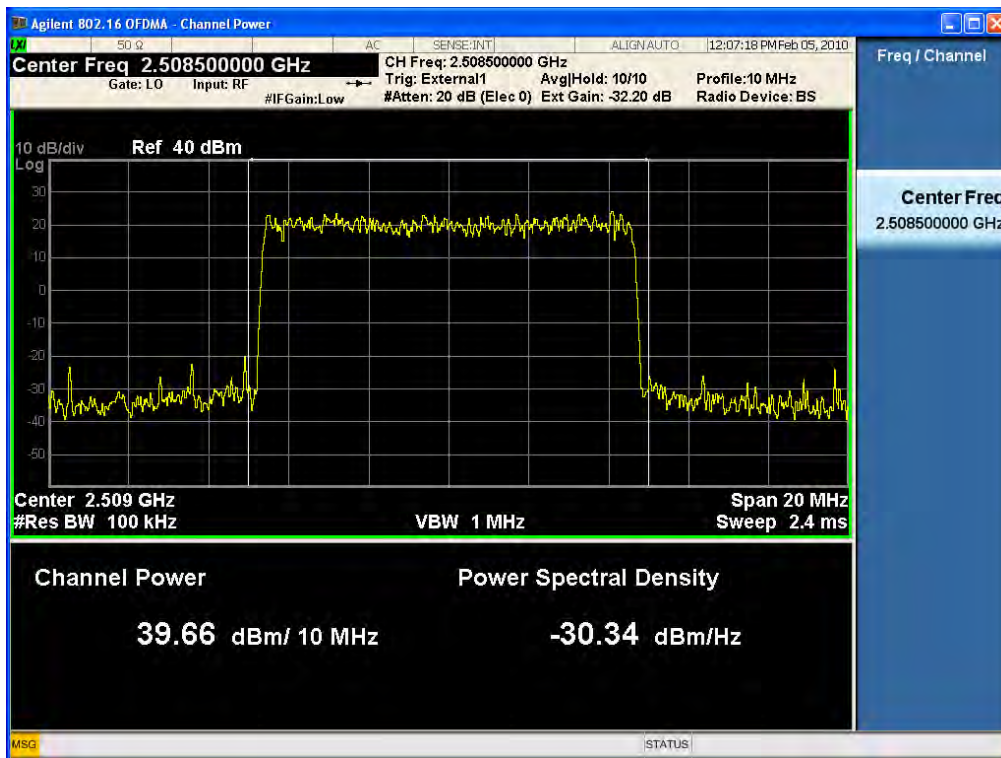


(16QAM High Channel)

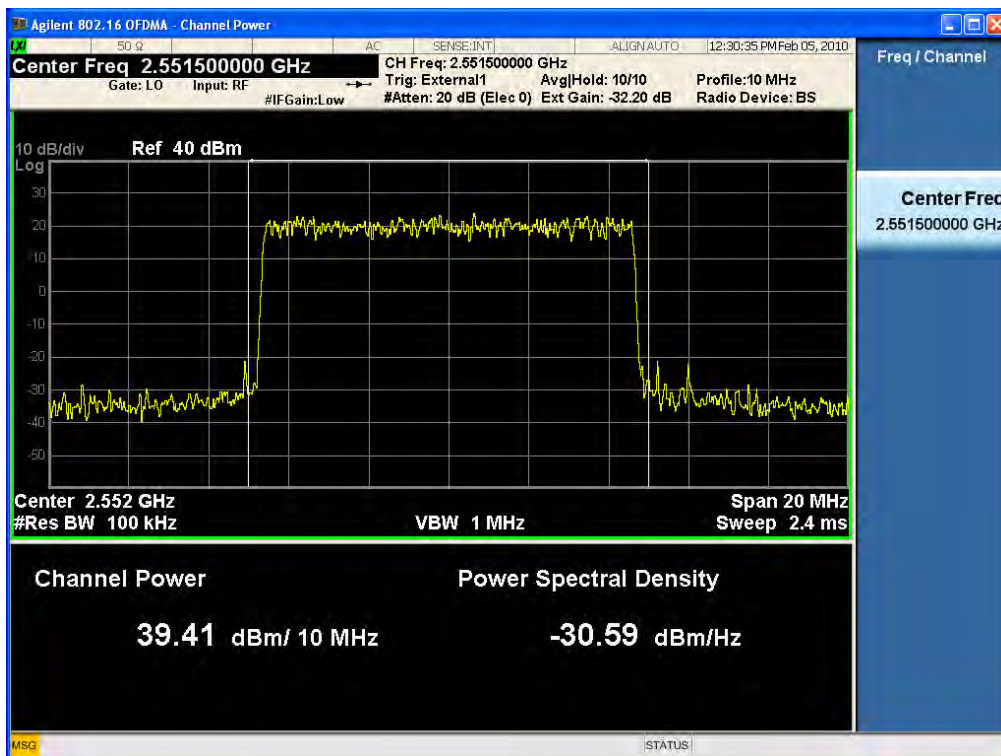


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(64QAM Low Channel)

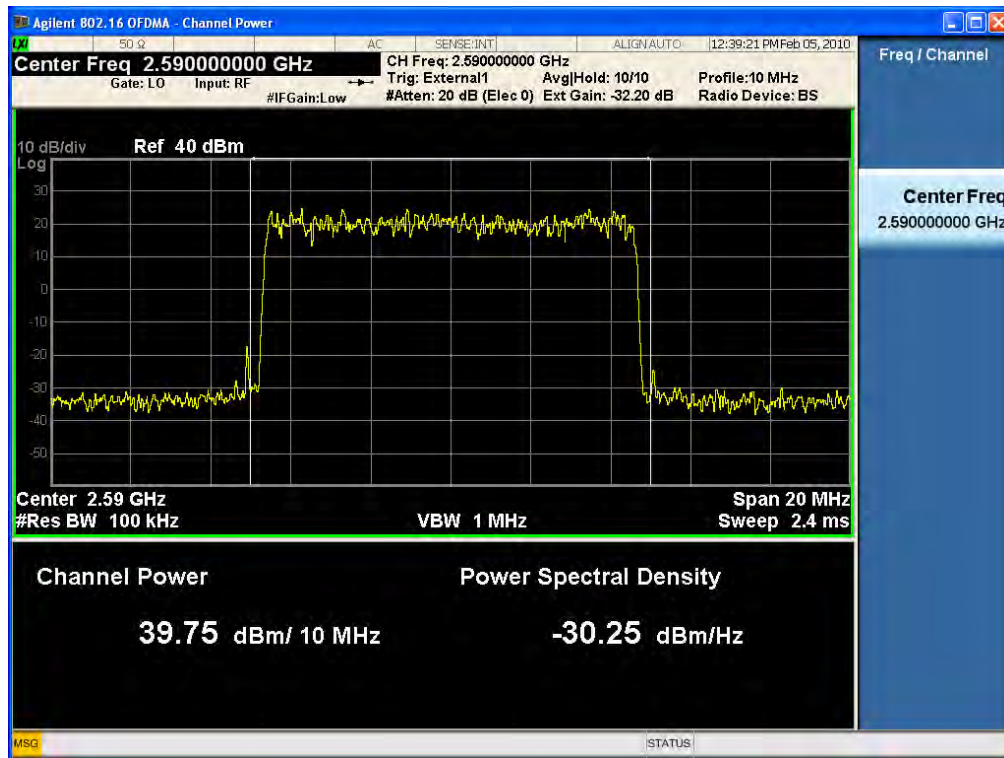


(64QAM Middle Channel)



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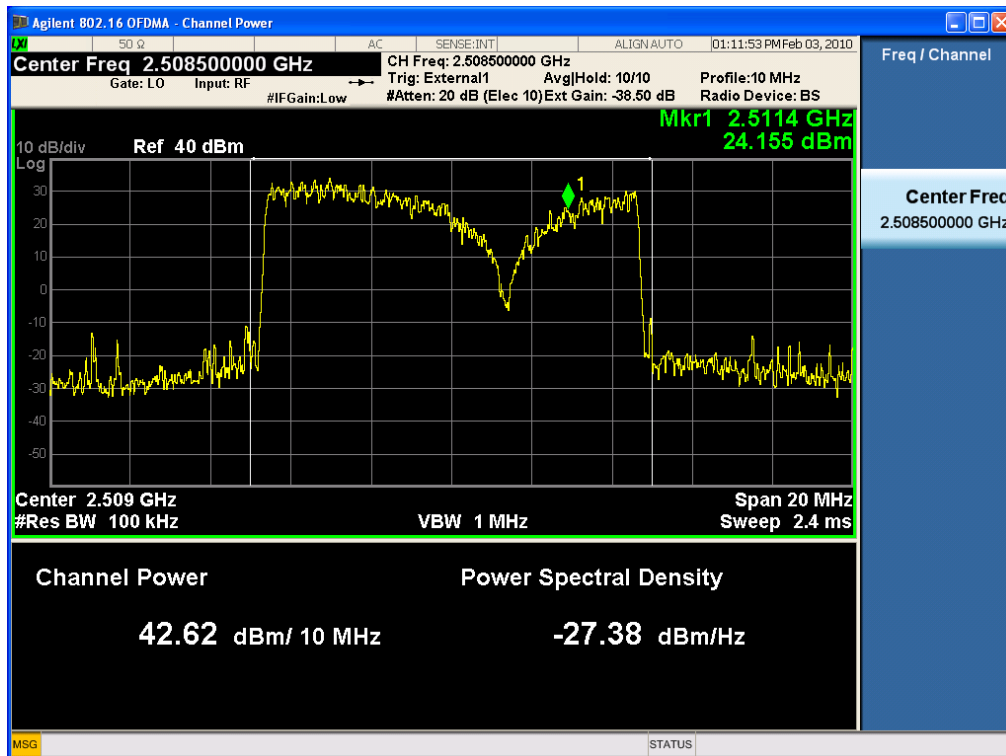
(64QAM High Channel)



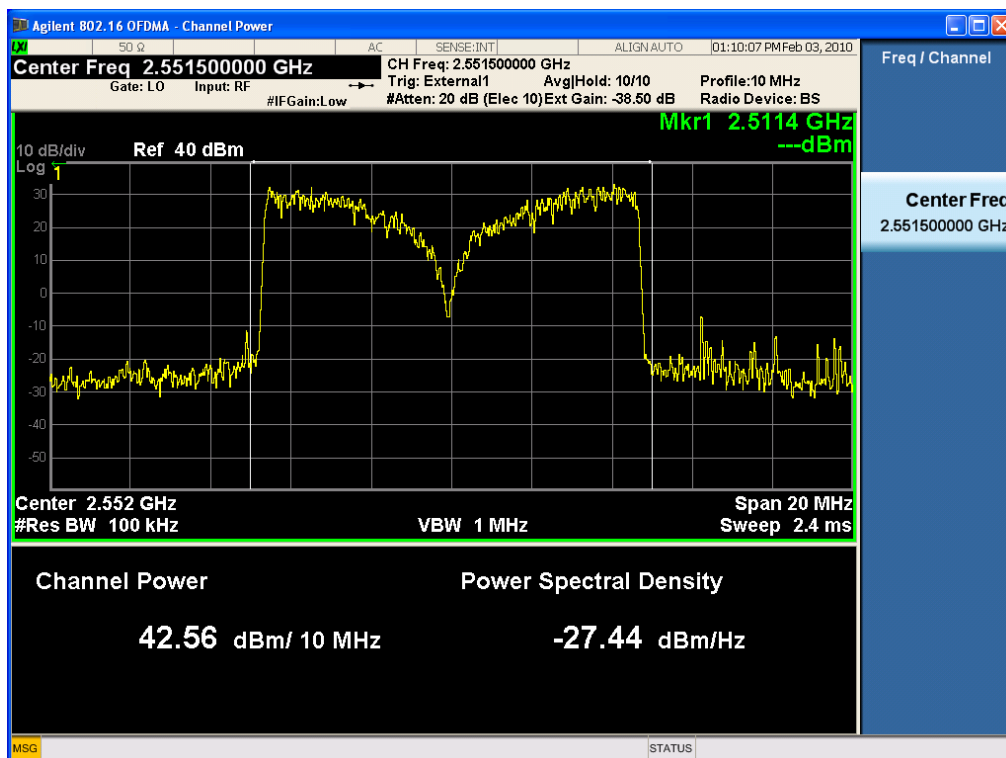
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5.4.8. Combined Plot Data for Output (Conducted Output Power)

(QPSK Low Channel)

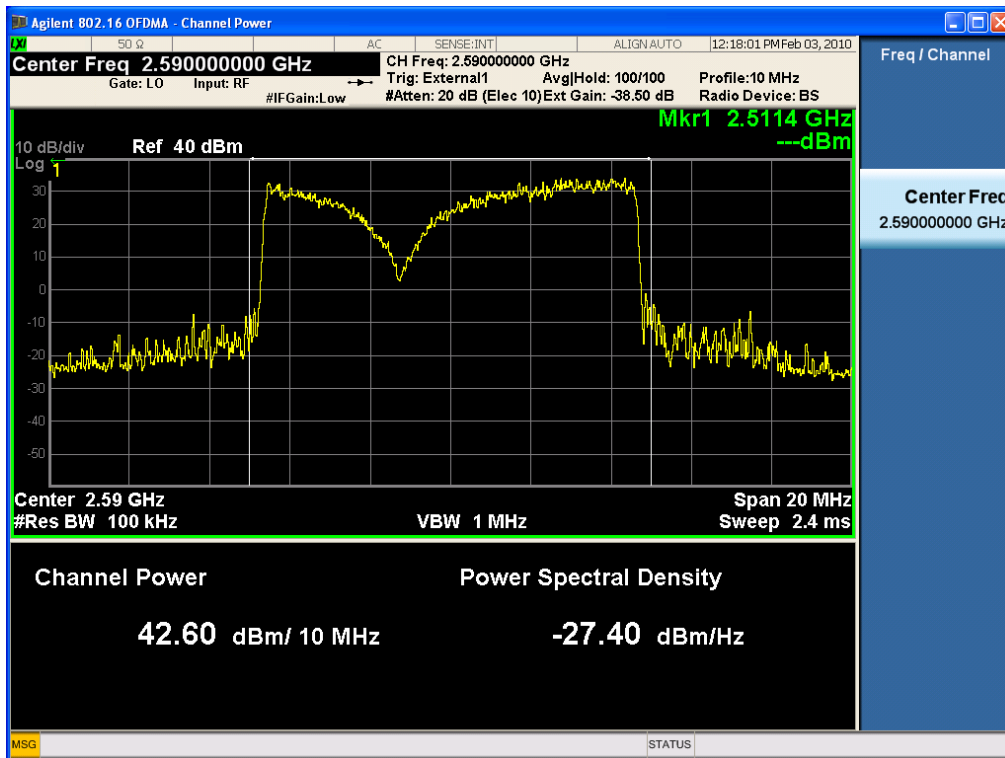


(QPSK Middle Channel)

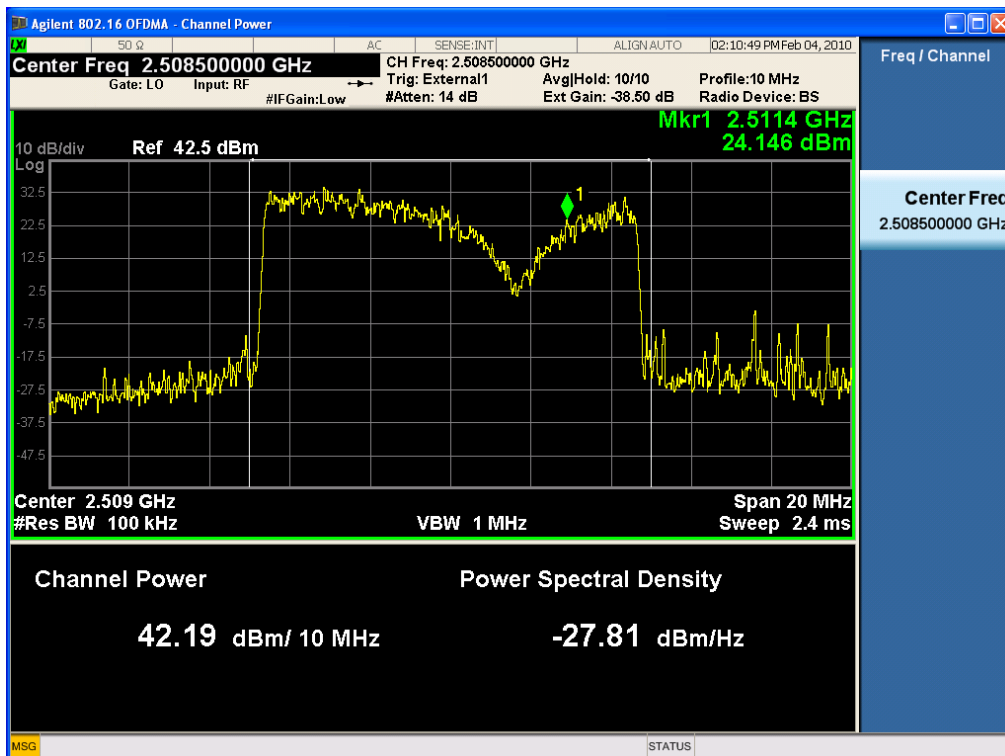


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(QPSK High Channel)

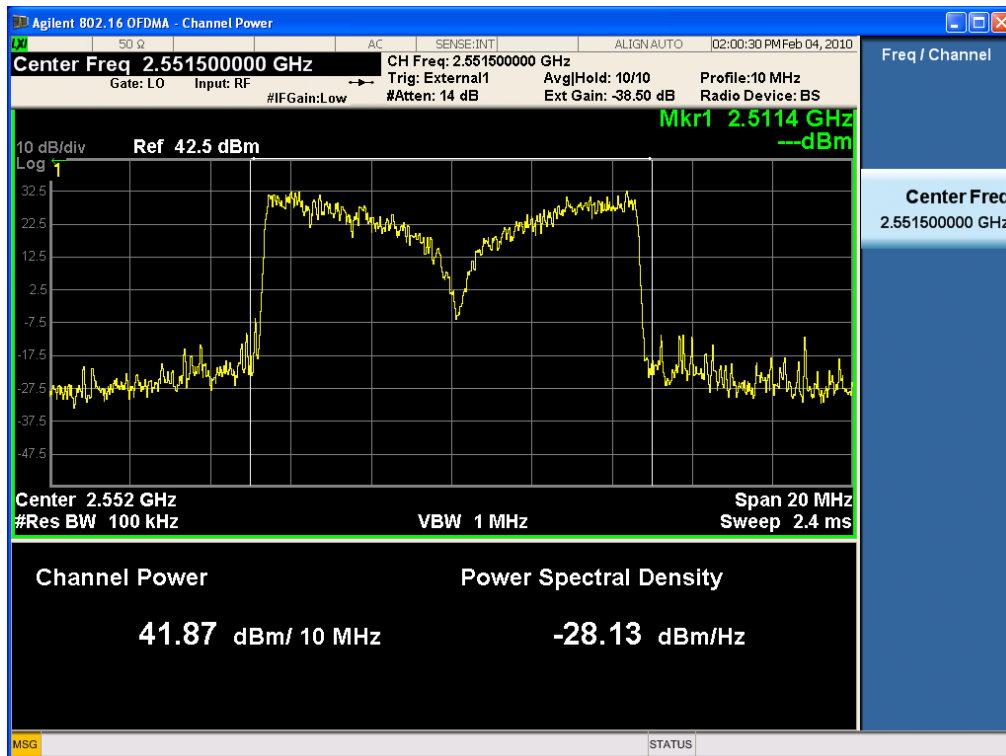


(16QAM Low Channel)

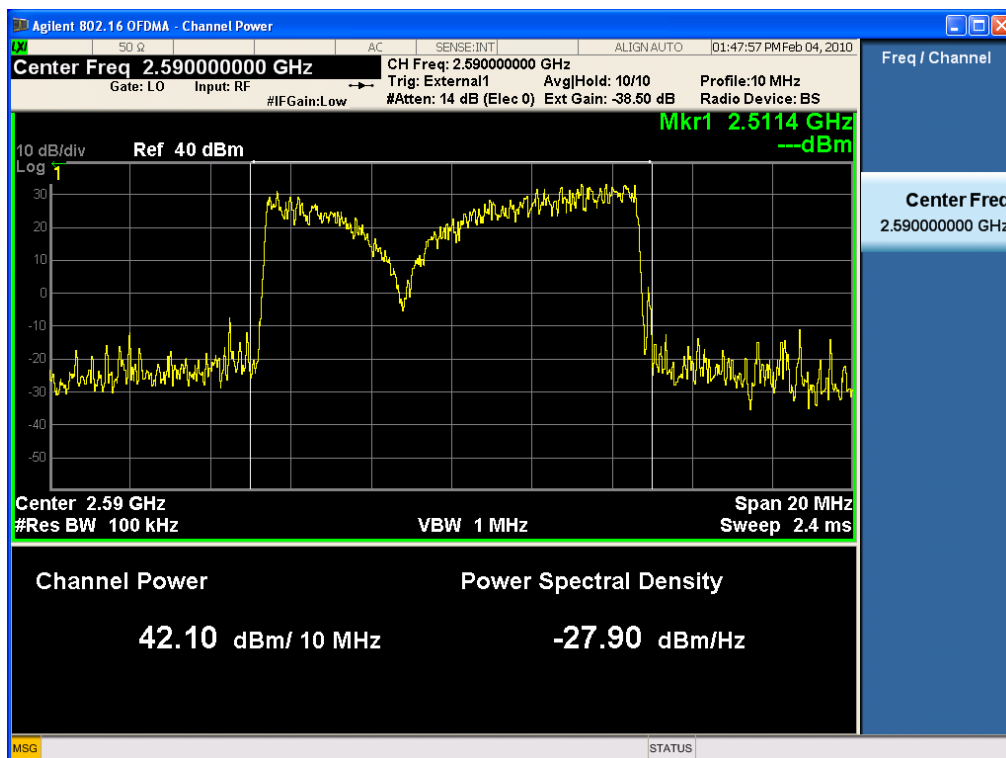


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(16QAM Middle Channel)

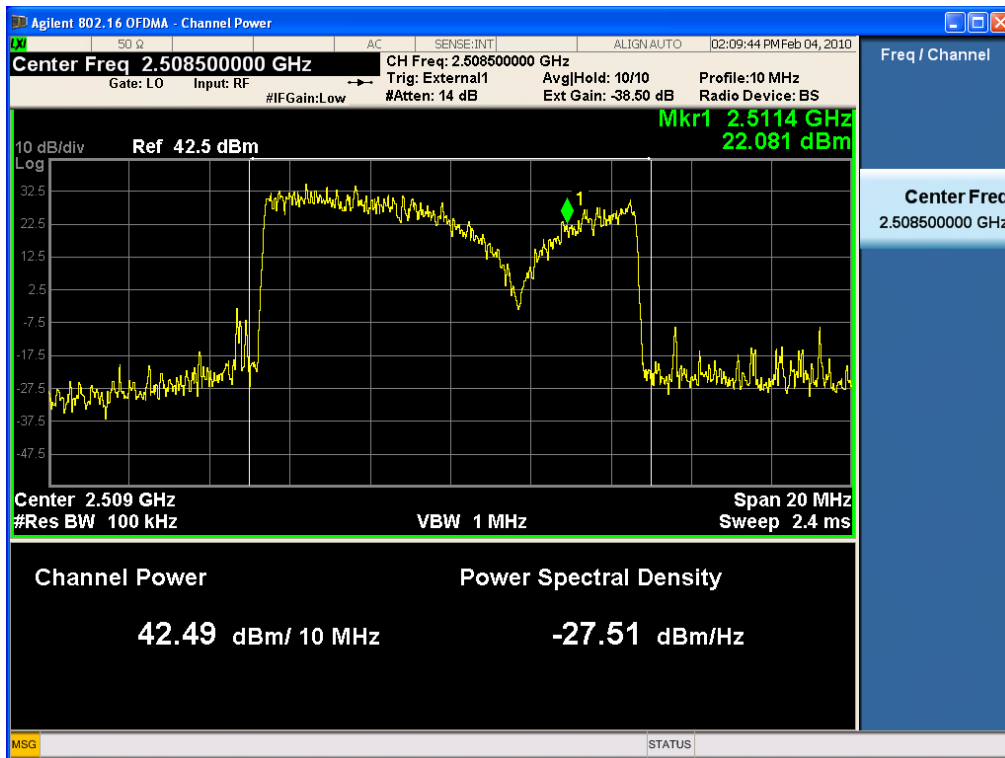


(16QAM High Channel)

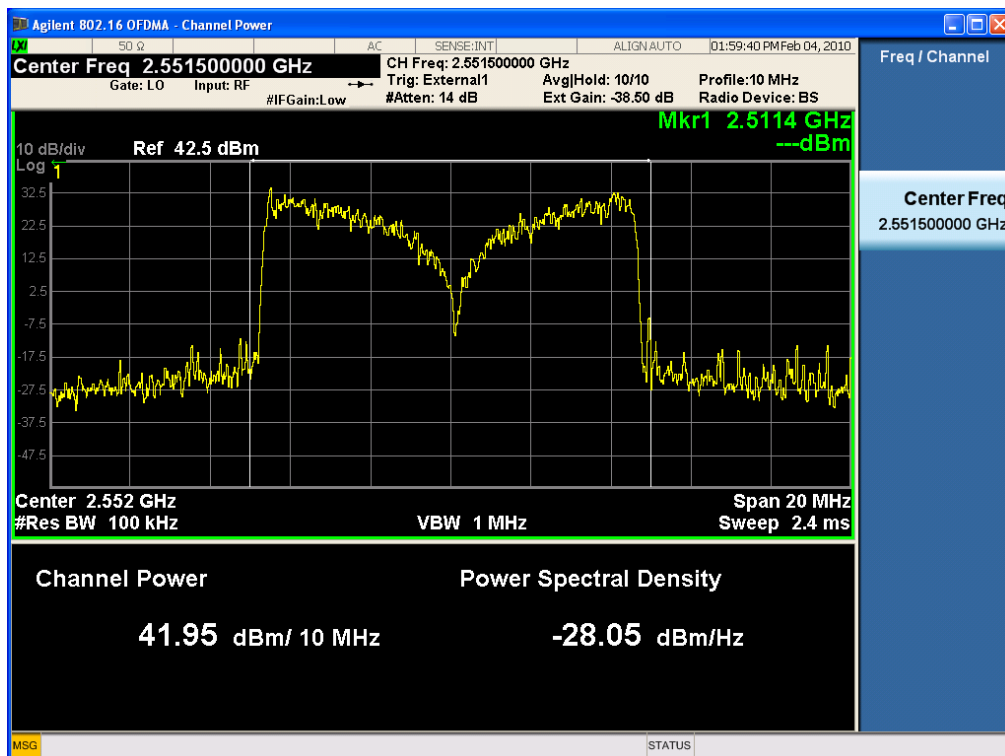


HCT PT.27 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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(64QAM Low Channel)

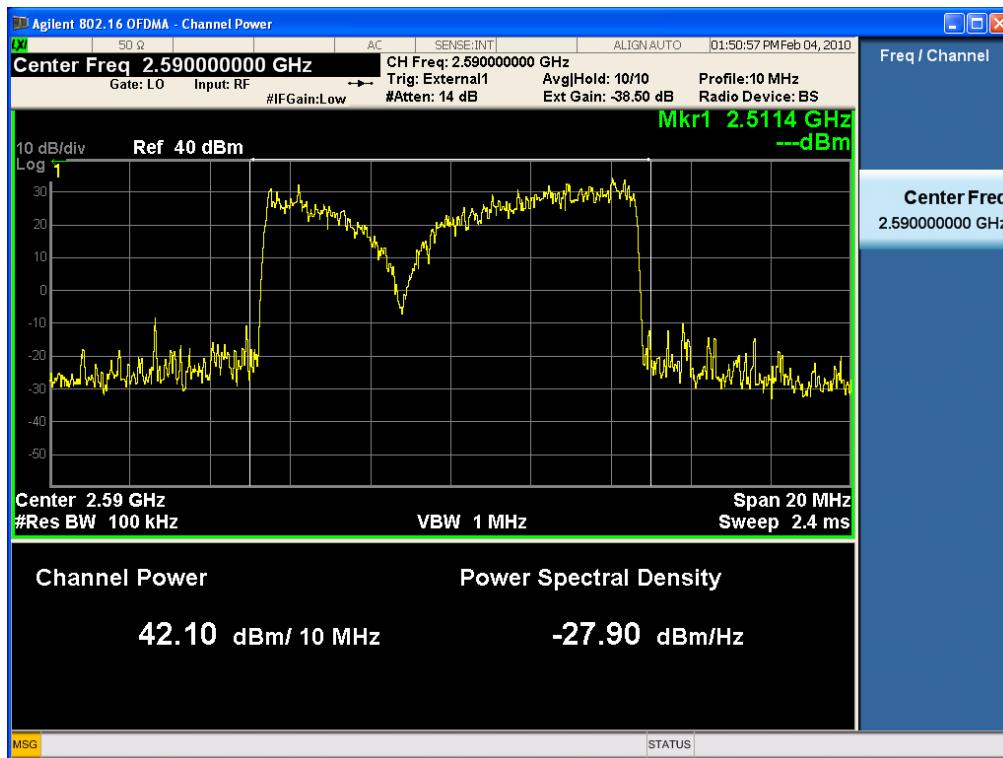


(64QAM Middle Channel)



HCT PT.27 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1002FR21	Test Dates: February 18,2010	EUT Type: Mobile WiMAX Outdoor RAS	FCC ID: A3LSPI-2210022502	Page 23 of 166

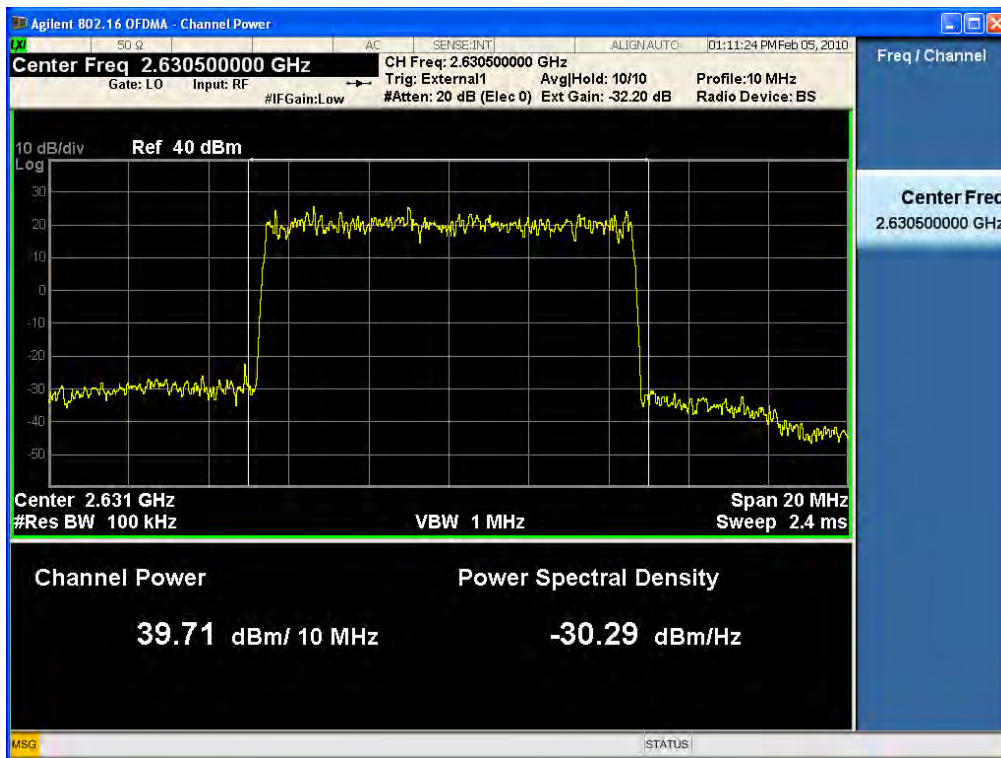
(64QAM High Channel)



HCT PT.27 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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5.4.9. Plot Data for Output Beta 0 (Conducted Output Power)

(QPSK Low Channel)

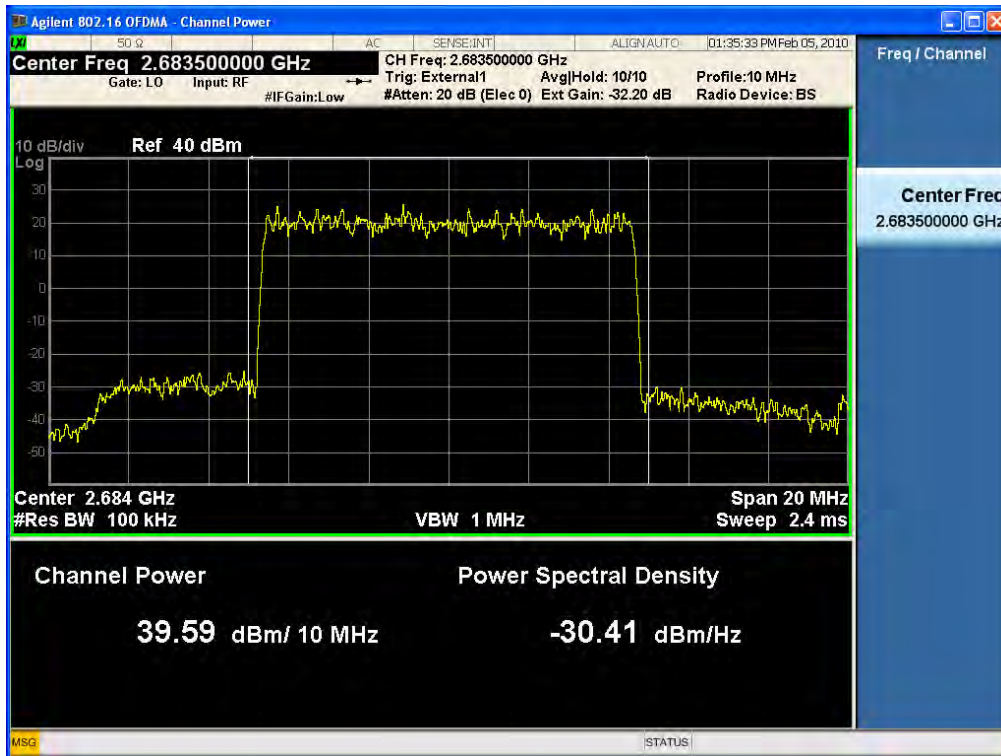


(QPSK Middle Channel)

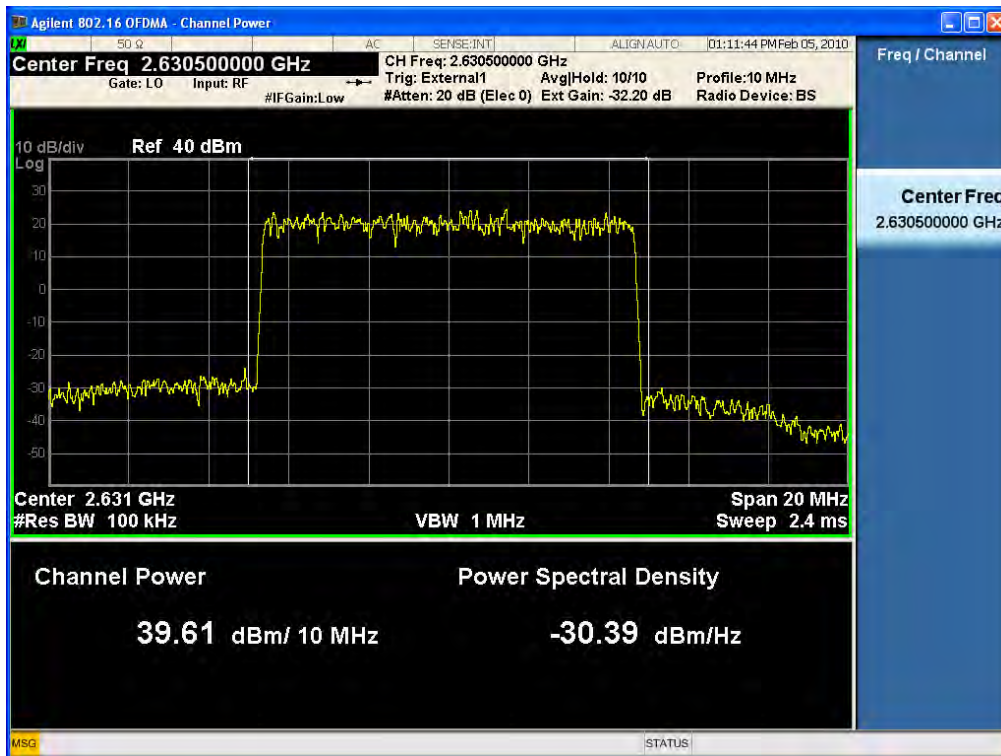


HCT PT.27 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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(QPSK High Channel)

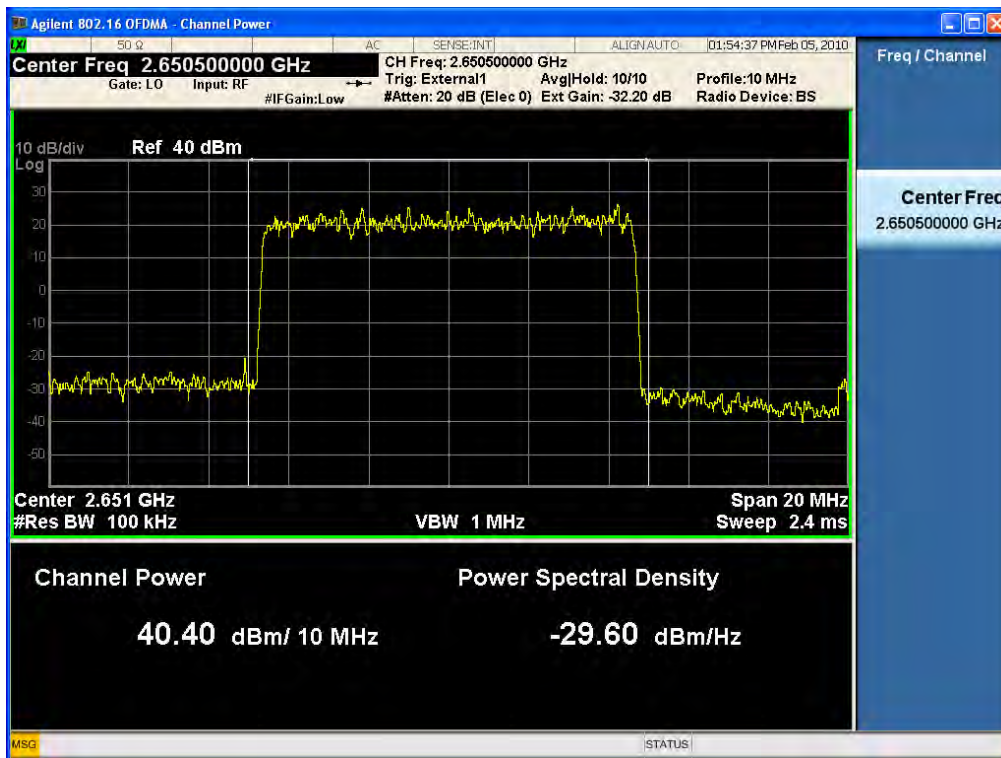


(16QAM Low Channel)

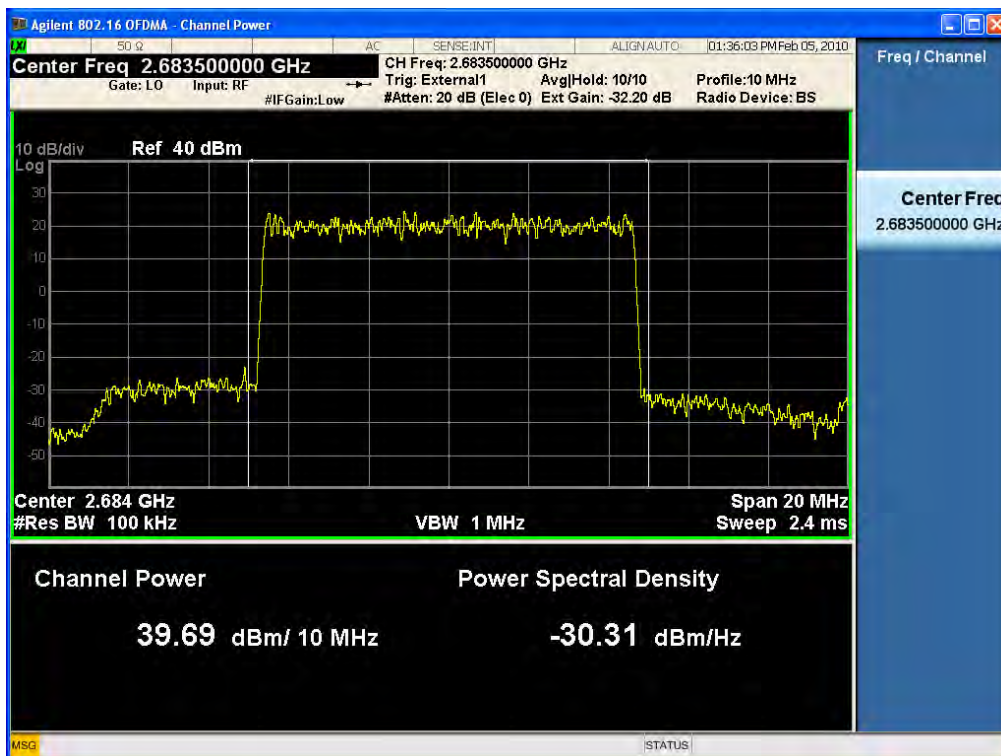


HCT PT.27 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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(16QAM Middle Channel)

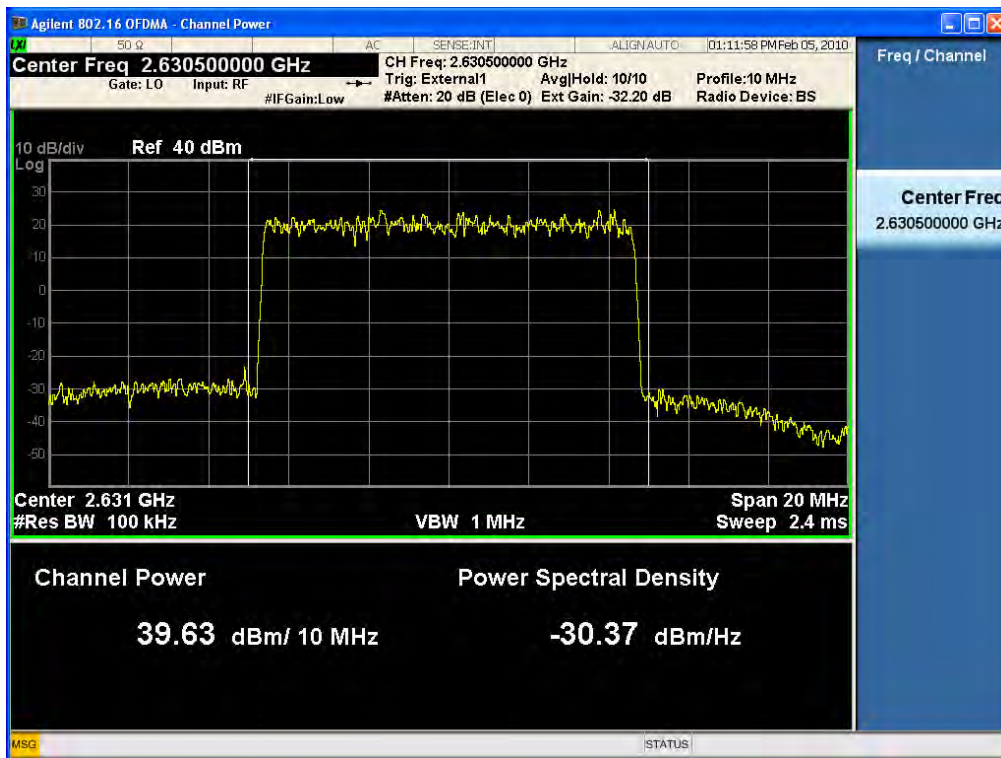


(16QAM High Channel)

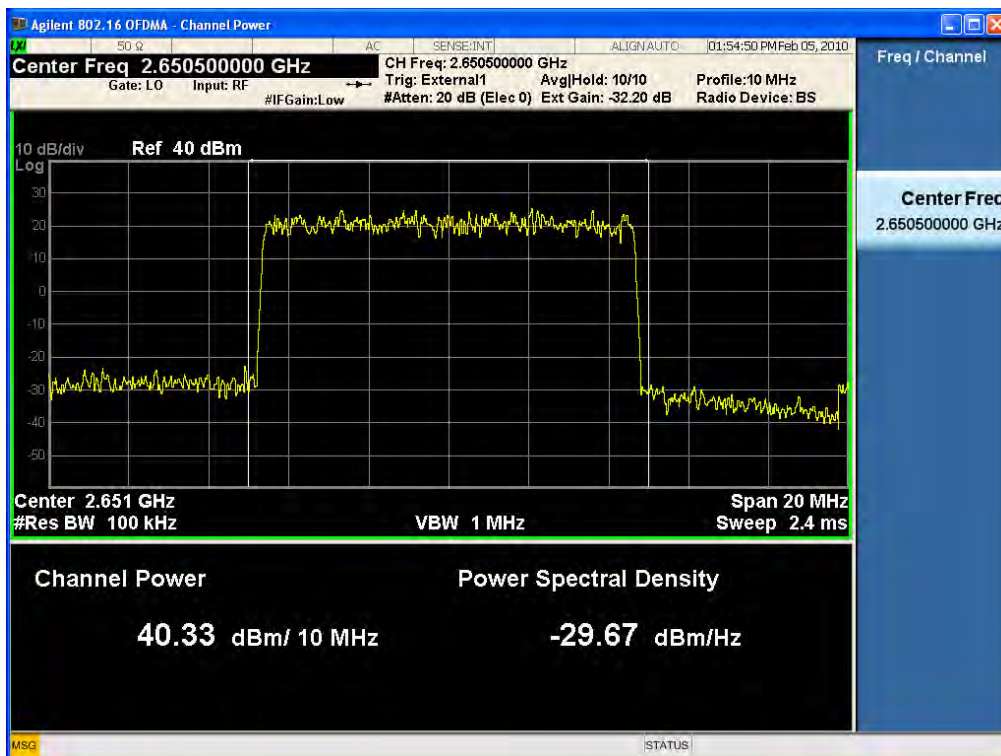


HCT PT.27 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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(64QAM Low Channel)

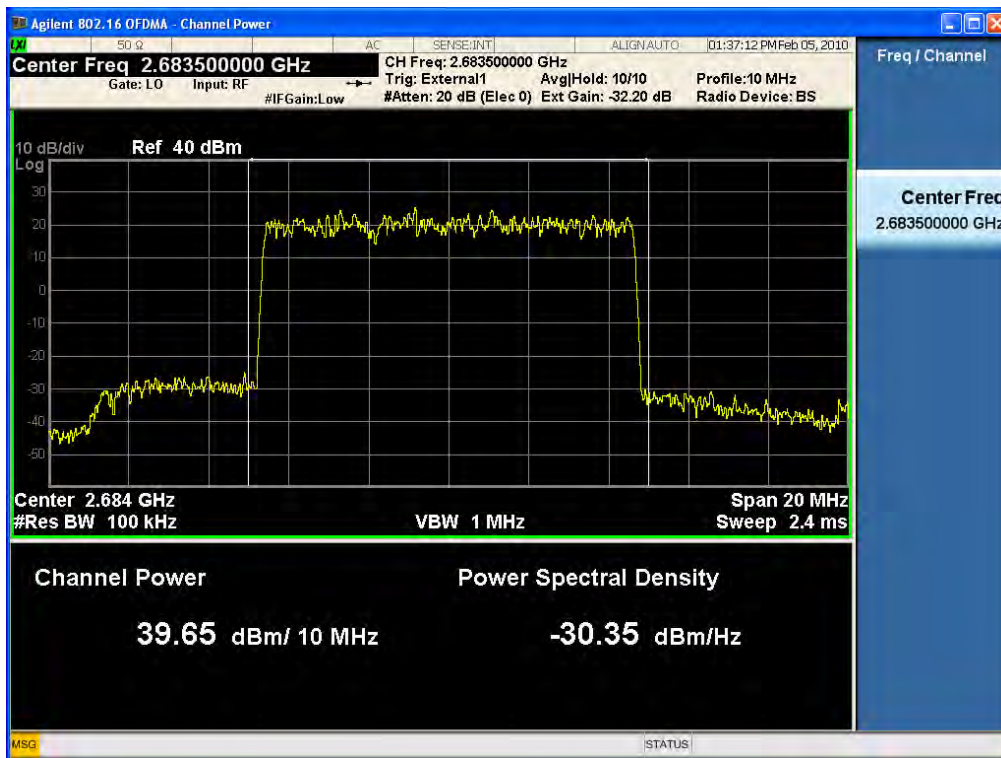


(64QAM Middle Channel)



HCT PT.27 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCTR1002FR21	Test Dates: February 18, 2010	EUT Type: Mobile WiMAX Outdoor RAS	FCC ID: A3LSPI-2210022502	Page 28 of 166

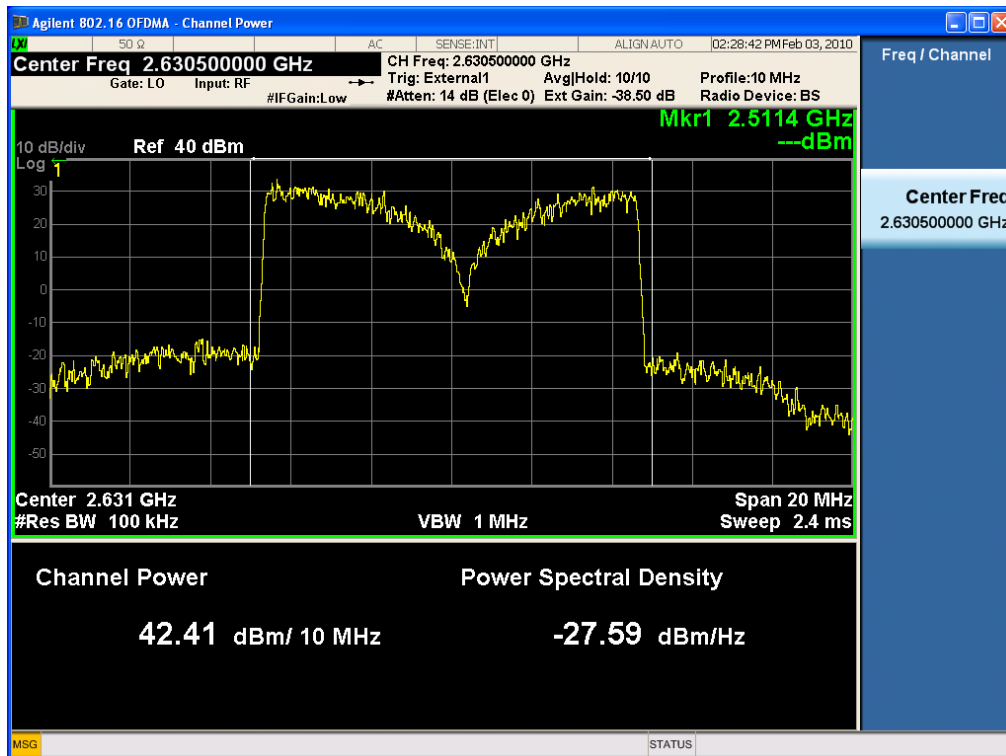
(64QAM High Channel)



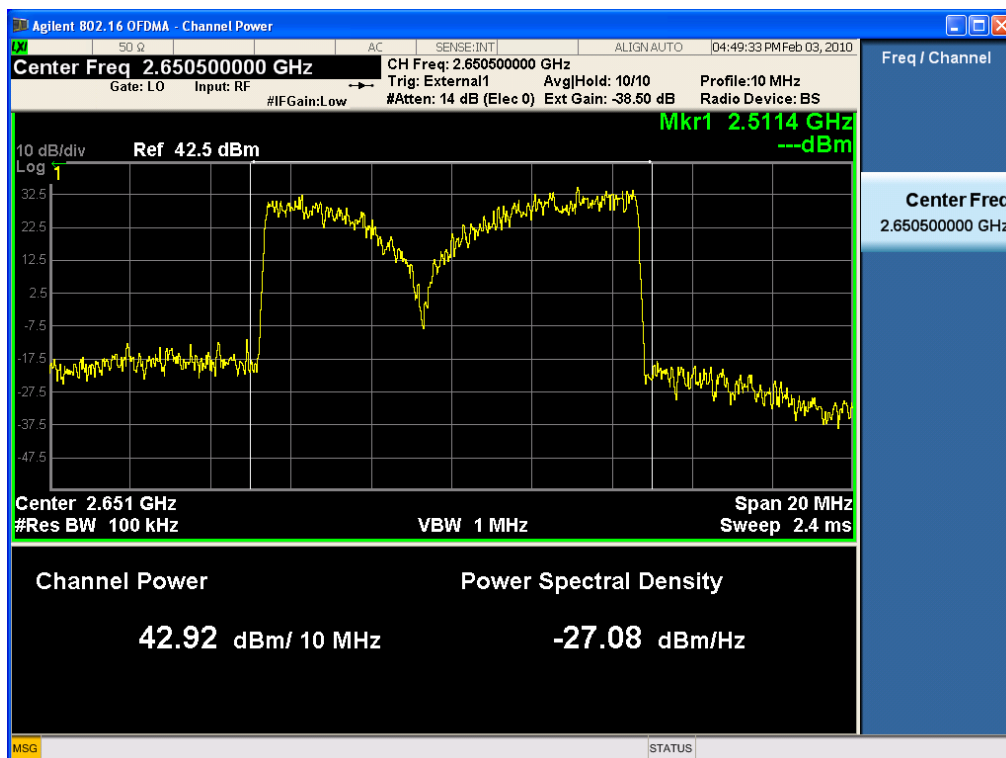
HCT PT.27 TEST REPORT	FCC CERTIFICATION REPORT			www.hct.co.kr
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5.4.10. Combined Plot Data for Output (Conducted Output Power)

(QPSK Low Channel)



(QPSK Middle Channel)



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