

FCC BT REPORT

FCC Certification

Applicant Name:

LG Electronics MobileComm U.S.A., Inc.

Address:

1000 Sylvan Avenue, Englewood Cliffs NJ 07632

Date of Issue: April 25, 2016 Test Site/Location: HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majangmyeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA Report No.: HCT-R-1604-F062 HCT FRN: 0005866421

IC Recognition No.: 5944A-5

FCC ID : ZNFNSO APPLICANT :LG Electronics MobileComm U.S.A., Inc.

Model(s):	KT1601
EUT Type:	Tablet with WLAN and Bluetooth
Max. RF Output Power:	11.463 dBm (14.006 mW)
Frequency Range:	2402 MHz - 2480 MHz (Bluetooth)
Modulation type	GFSK(Normal), π /4DQPSK and 8DPSK(EDR)
FCC Classification:	FCC Part 15 Spread Spectrum Transmitter
FCC Rule Part(s):	Part 15 subpart C 15.247

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by : Seul Ki Lee Test engineer of RF Team

Approved by : Jong Seok Lee Manager of RF Team

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Model: KT1601

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1604-F062	April 25, 2016	- First Approval Report



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1. GENERAL INFORMATION

Applicant:	LG Electronics MobileComm U.S.A., Inc
Address:	1000 Sylvan Avenue, Englewood Cliffs NJ 07632
FCC ID:	ZNFNSO
EUT Type:	Tablet with WLAN and Bluetooth
Model (s):	KT1601
Date(s) of Tests:	March 29, 2016 ~ April 18, 2016
Place of Tests:	HCT Co., Ltd. 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

Model	KT1601		
ЕИТ Туре	Tablet with WLAN and Bluetooth		
Power Supply	DC 3.85 V		
Pottony Information	Model: BL-T20J_KD		
Battery Infomation	Type: Li-ion Polymer		
Frequency Range	2402 MHz - 2480 MHz (Bluetooth)		
Max. RF Output Power:	11.463 dBm (14.006 mW)		
BT Operating Mode	Normal, EDR, AFH		
Modulation Type	GFSK(Normal), π/4DQPSK and 8DPSK(EDR)		
Modulation Technique	FHSS		
Number of Channels	79Channels, Minimum 20 Channels(AFH)		
	Manufacturer: Ace technology.		
Antenna Specification	Antenna type: INTERNAL ANTENNA		
	Peak Gain : 0.09 dBi		

2. EUT DESCRIPTION

※ 15.247 Requirements for Bluetooth transmitter

• This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:

1) This system is hopping pseudo-randomly.

2) Each frequency is used equally on the average by each transmitter.

3) The receiver input bandwidths that match the hopping channel bandwidths of their corresponding transmitters

4) The receiver shifts frequencies in synchronization with the transmitted signals.

• 15.247(g): The system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this Section 15.247 should the transmitter be presented with a continuous data (or information) stream.

• 15.247(h): The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.



3. TEST METHODOLOGY

The measurement procedure described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) is used in the measurement of the LG Electronics MobileComm U.S.A., Inc Tablet with WLAN and Bluetooth FCC ID: ZNFNSO

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2013) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz. Above 1GHz with 1.5m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.10. (Version: 2013). To record the final measurements, the analyzer detector function was set to CISPR quasi-peak mode and the bandwidth of the spectrum analyzer was set to 120 kHz for frequencies below 1 GHz or 1 MHz for frequencies above 1 GHz. For average measurements above 1 GHz, the analyzer was set to peak detector with a reduced VBW setting(RBW = 1 MHz, VBW = 1/T Hz, where T = Pulse width).

Conducted Antenna Terminal

See Section from 7.8.2 to 7.8.8.(ANSI 63.10-2013)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

Espectially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 07, 2015 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

* The antennas of this E.U.T are permanently attached.

*The E.U.T Complies with the requirement of §15.203



7. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (±dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.82
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80
Radiated Disturbance (1 GHz ~ 18 GHz)	6.07



8. SUMMARY OF TEST RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test
				Result
20 dB Bandwidth	§15.247(a)(1)(ii) or (iii)	N/A		PASS
Occupied Bandwidth	N/A	N/A		N/A
Conducted Maximum Peak Output Power	§15.247(b)(1)	< 1 W if ≥ 75 non- overlapping hopping channels used < 0.125 W if < 75 non- overlapping hopping channels used		PASS
Carrier Frequency Separation	§15.247(a)(1)	>25 kHz or >2/3 of the 20dB BW	CONDUCTED	PASS
Number of Hopping Frequencies	§15.247(a)(1)(iii)	≥ 15		PASS
Time of Occupancy	§15.247(a)(1)(iii)	<400 ms		PASS
Conducted Spurious Emissions	§15.247(d)	> 20 dB for all out-of band emissions		PASS
Band Edge(Out of Band Emissions)	§15.247(d)	> 20 dB for all out-of band emissions		PASS
AC Power line Conducted Emissions	§15.207(a)	cf. Section 8.7		PASS
Radiated Spurious Emissions	§15.247(d), 15.205, 15.209	cf. Section 8.6.2		PASS
Radiated Restricted Band Edge	§15.247(d), 15.205, 15.209	cf. Section 8.6.3	RADIATED	PASS



Model: KT1601

9. TEST RESULT

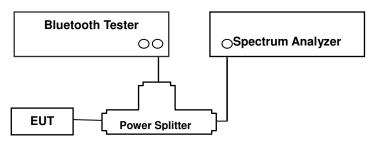
9.1 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 W. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 W.
- 2. The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. The Spectrum Analyzer is set to the peak detector mode. This test is performed with hopping off.

The Spectrum Analyzer is set to (7.8.5 in ANSI 63.10-2013)

- 1) Span: approximately 5 times the 20 dB bandwidth, centered on a hopping channel
- 2) RBW > the 20 dB bandwidth of the emission being measured
- 3) VBW \geq RBW
- 4) Sweep = Auto
- 5) Detector = Peak
- 6) Trace = Max hold

SAMPLE CALCULATION

Output Power = Spectrum Reading Power + Power Splitter loss + Cable loss(2 ea)

= 10 dBm + 6 dB + 1.5 dB = 17.5 dBm

Note :

- 1. Spectrum reading values are not plot data. The power results in plot is already including the actual values of loss for the splitter and cable combination.
- 2. Spectrum offset = Power Splitter loss + Cable loss

Model: KT1601

3. We apply to the offset in the 2.4 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the splitter and cable combination is 7.36 dB at 2402 MHz and is 7.44 dB at 2480 MHz.

So, 7.4 dB is offset. And the offset gap in the 2.4 GHz range do not affect the conducted peak power final result.

TEST RESULTS

No non-compliance noted

Test Data

Channel	Frequency	-	t Power FSK)	Limit	Result
	(MHz)	(dBm)	(mW)	(mW)	
Low	2402	7.306	5.378		PASS
Mid	2441	9.804	9.559	125	PASS
High	2480	8.162	6.549		PASS

Channel	Frequency	Output Power (8DPSK)		Output (π/4DC		Limit	Result	
	(MHz)	(dBm)	(mW)	(dBm)	(mW)	(mW)		
Low	2402	8.819	7.619	8.665	7.354		PASS	
Mid	2441	11.463	14.006	11.269	13.394	125	PASS	
High	2480	9.737	9.412	9.570	9.057		PASS	

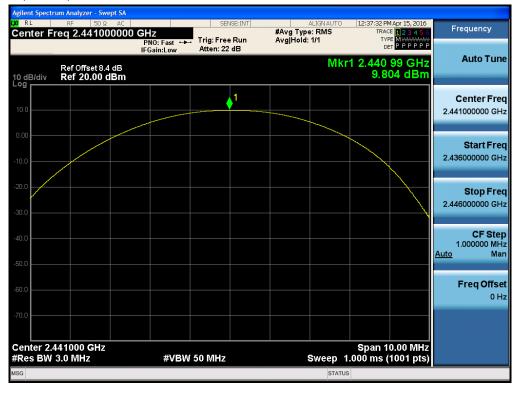


Test Plots (GFSK)

Peak Power (CH.0)



Test Plots (GFSK) Peak Power (CH.39)





Test Plots (GFSK) Peak Power (CH.78)



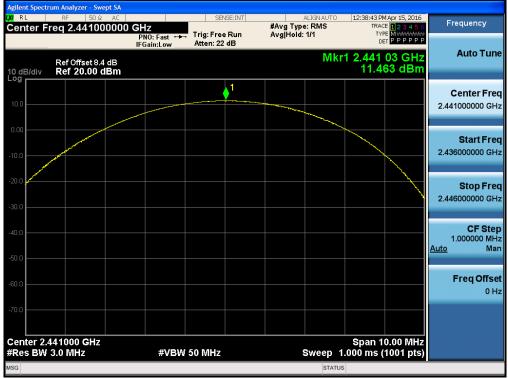
Test Plots (8DPSK) Peak Power (CH.0)





Test Plots (8DPSK)

Peak Power (CH.39)



Test Plots (8DPSK) Peak Power (CH.78)



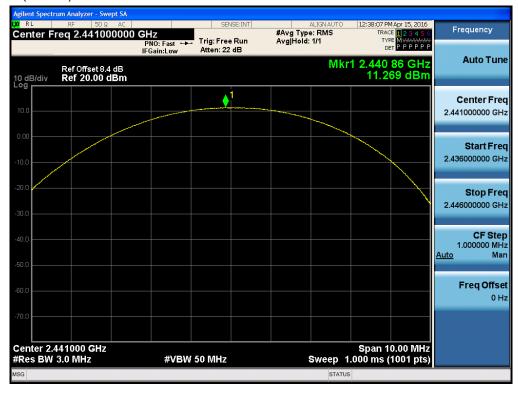


Test Plots (π/4DQPSK)

Peak Power (CH.0)



Test Plots (π/4DQPSK) Peak Power (CH.39)





Test Plots (π/4DQPSK)

Peak Power (CH.78)





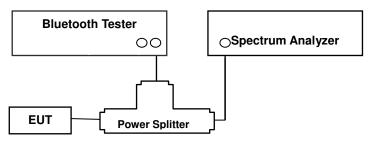
Model: KT1601

9.2 BAND EDGES

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Configuration



TEST PROCEDURE

This test is performed with hopping off and hopping on.

The Spectrum Analyzer is set to (6.10.4 in ANSI 63.10-2013)

- 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation
- Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level.
- 3) Attenuation: Auto (at least 10 dB preferred).
- 4) Sweep time: Coupled.
- 5) RBW: 100 kHz
- 6) VBW: 300 kHz
- 7) Detector: Peak
- 8) Trace: Max hold



Model: KT1601

TEST RESULTS

See attached.

Note :

- 1. The results in plot is already including the actual values of loss for the splitter and cable combination.
- 2. Spectrum offset = Power Splitter loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the splitter and cable combination is 7.36 dB at 2402 MHz and is 7.44 dB at 2480 MHz. So, 7.4 dB is offset. And the offset gap in the 2.4 GHz range do not affect the band edge measurement final result.

Test Data

- Without hopping

Outoido Eroquopou	GFSK	8DPSK	π/4DQPSK Limit			Margin		
Outside Frequency Band	(dP)	(dB)	(dB)	(dBc)	GFSK	8DPSK	π/4DQPSK	Result
Ballu	(dB)	(UB)	(06)	(UDC)	(dBc)	(dBc)	(dBc)	
Lower	57.631	54.797	53.776	20	37.631	34.797	33.776	PASS
Upper	66.261	65.674	64.999	20	46.261	45.674	44.999	PASS

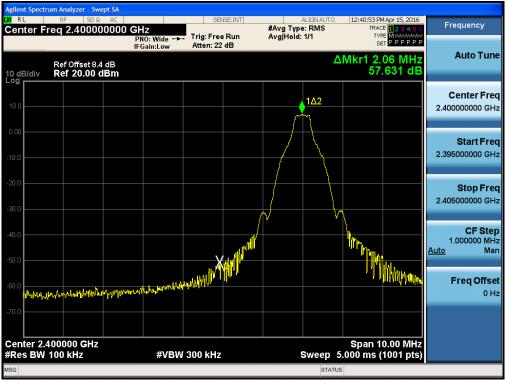
- With hopping

Outside Frequency Band	GFSK	8DPSK	π/4DQPSK	Limit		Margin		
	(dP)		(40)	(dBc)	GFSK	8DPSK	π/4DQPSK	Result
Danu	(dB)	(dB)	(dB)	(UDC)	(dBc)	(dBc)	(dBc)	
Lower	60.406	56.041	56.892	20	40.406	36.041	36.892	PASS
Upper	68.052	66.761	63.883	20	48.052	46.761	43.883	PASS



Test Plots without hopping (GFSK)

Band Edges (CH.0)



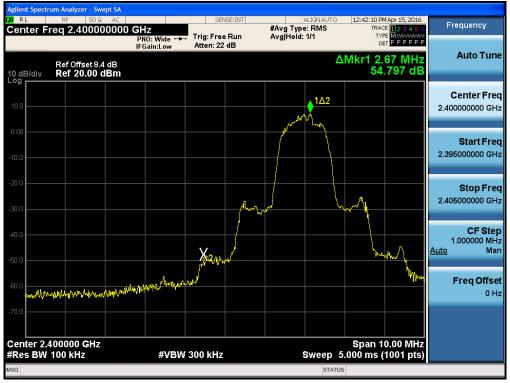
Test Plots without hopping (GFSK) Band Edges (CH.78)



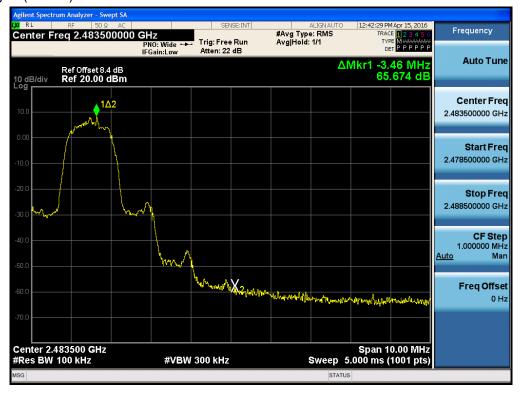


Test Plots without hopping (8DPSK)

Band Edges (CH.0)



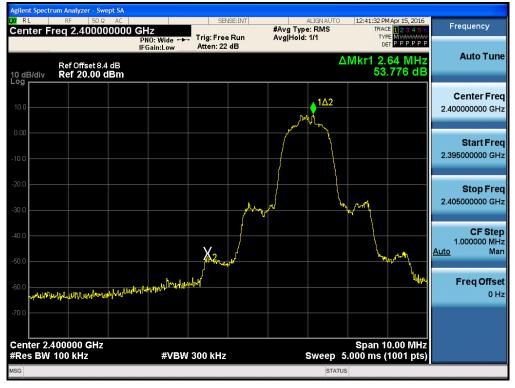
Test Plots without hopping (8DPSK) Band Edges (CH.78)





Test Plots without hopping (π /4DQPSK)

Band Edges (CH.0)



Test Plots without hopping (π /4DQPSK) Band Edges (CH.78)





Test Plots with hopping (GFSK)

Band Edges (CH.0)



Test Plots with hopping (GFSK) Band Edges (CH.78)





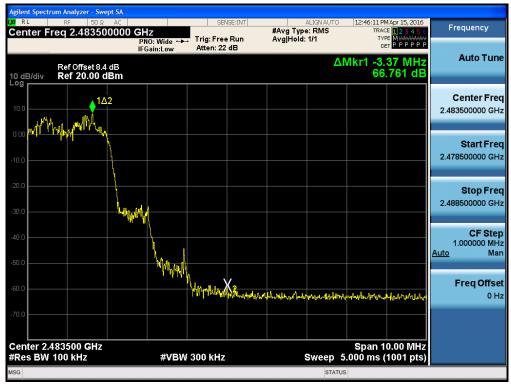
Test Plots with hopping (8DPSK)

Band Edges (CH.0)



Test Plots with hopping (8DPSK)

Band Edges (CH.78)





Test Plots with hopping (π /4DQPSK)

Band Edges (CH.0)



Test Plots with hopping (π /4DQPSK) Band Edges (CH.78)

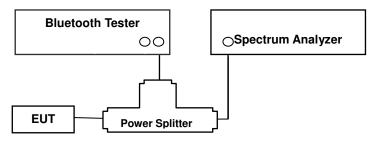


9.3 FREQUENCY SEPARATION / OCCUPIED BANDWIDTH (99% BW)

LIMIT

According to §15.247(a)(1), Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Test Configuration



TEST PROCEDURE

The Channel Separation test is performed with hopping on. And the 20 dB Bandwidth test is performed with hopping off.

The Spectrum Analyzer is set to (7.8.2 in ANSI 63.10-2013)

- 1) Span: Wide enough to capture the peaks of two adjacent channels
- 2) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 3) VBW ≥ RBW
- 4) Sweep: Auto
- 5) Detector: Peak
- 6) Trace: Max hold
- 7) All the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

TEST RESULTS

No non-compliance noted

Cha	annel Sep (kHz)	aration		Limit	Result			
GFSK	8DPSK	π/4DQPSK	Channel GFSK 8DPSK π/4DQPSK				(kHz)	
			CH.0	977.2	1308	1294	>25 or	
994	991	988	CH.39	967.1	1313	1311	>2/3 of the	Pass
			CH.78	971.2	1306	1313	20dB BW	

Test Data

Occupied Bandwidth (99% BW)

99% BW (kHz)							
Channel	GFSK	8DPSK	π/4DQPSK				
CH.0	898.66	1183.3	1178.8				
CH.39	896.69	1186.6	1178.0				
CH.78	896.09	1183.8	1175.0				

Note : We can not know what use channel in AFH mode. So, we can not test in AFH mode. Also, if the test performs some channel in AFH mode, the test result is not different with noral mode.



Test Plots (GFSK)

Channel Separation



Test Plots (8DPSK) Channel Separation

RL		RF	er - Swept				SEN	SE:INT		ALIGN AUTO	12:49:26 F	M Apr 15, 2016	_
enter	Fre	q 2.4	41000				Trig: Free	D	#Avg T Avg Ho	ype: RMS	TRA	CE 123456 /PE MWWWWW	Frequency
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enter					-443	10147	400 ku-			0	Span 3	3.000 MHz	CF St
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6													
7													
9													
0												~	
							Ш					>	



Test Plots (π /4DQPSK)

Channel Separation

Agilent Spectrum Analyzer - Swept SA				
Center Freq 2.441000000	GHz	ALIGNAUTO #Avg Type: RMS	12:59:32 PM Apr 15, 2016 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 8.4 dB	PNO: Wide ↔ Trig: Free Run IFGain:Low Atten: 20 dB	Avg Hold: 1/1	Mkr3 988 kHz 1.273 dB	Auto Tune
10 dB/div Ref 18.40 dBm	1Δ2 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3 <u>0</u> 4	Center Freq 2.441000000 GHz
-21.6				Start Fred 2.439500000 GHz
-51.6 -61.6 -71.6				Stop Fred 2.442500000 GHz
Center 2.441000 GHz #Res BW 30 kHz	#VBW 100 kHz	Sweep :	Span 3.000 MHz 3.176 ms (900 pts)	CF Step 300.000 kHz Auto Mar
MKR MODE TRC SCL X	Υ FU I.004 MHz (Δ) -0.713 dB	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
2 F 1 f 2.439 3 Δ4 1 f (Δ) 4 F 1 f 2.440 5	977 GHz 6.758 dBm 988 kHz (Δ) 1.273 dB 982 GHz 6.045 dBm			Freq Offsel 0 Hz
6 7 8 9 10				
11 <			>	
MSG		STATUS		



Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)





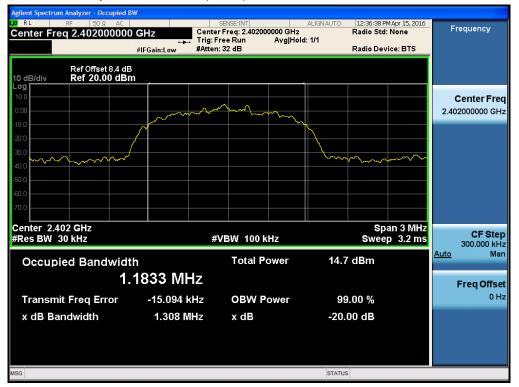
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)





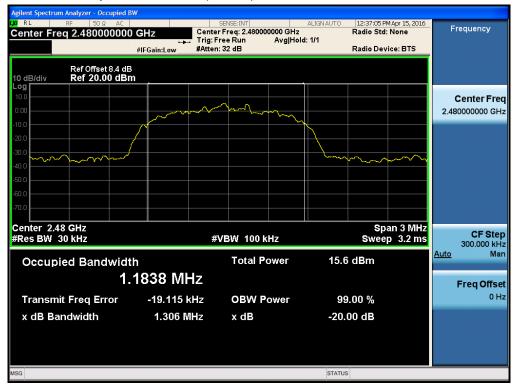
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)



Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)





Test Plots (π/4DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



Test Plots (π/4DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)





Test Plots (π/4DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)

