

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name:

HYUNDAI MOBIS CO., LTD.

Date of Issue:

November 16, 2010

Location:

HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon, Icheon-si,

Kyunggi-Do, Korea(Lab)

Test Report No.: HCTR1011FR17

HCT FRN: 0005866421

IC Recognition No.: 5944A-2

Address:

80-9, MABOOK-RI, GUSEONG-EUP,

YONGIN-SHI, GYUNGGI-DO, 449-912 SOUTH KOREA

FCC ID

:TQ8-PA760VGXB-MY

APPLICANT

:HYUNDAI MOBIS CO., LTD.

FCC Model(s):

PA760VGXB_MY

Additional Model(s):

PA760VGMB MY, PA760VGGB MY

EUT Type:

CAR AUDIO

Max. RF Output Power:

3.16 dBm(2.07 mW)

Frequency Range:

2402 - 2480 MHz (Bluetooth)

Modulation type

GFSK(Normal), PSK(EDR)

FCC Classification:

FCC Part 15 Frequency Hopping Spread Spectrum Transceiver

FCC Rule Part(s):

Part 15 subpart C 15.247

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.

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 : Jong Seok Lee

Test Engineer of RF Team

Approved by : Sang Jun Lee

Manager of RF Team

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1011FR17	November 16, 2010	First Approval Report

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1. GENERAL INFORMATION

Applicant Name: HYUNDAI MOBIS CO., LTD.

Address: 80-9, MABOOK-RI, GUSEONG-EUP,

YONGIN-SHI, GYUNGGI-DO, 449-912 SOUTH KOREA

FCC ID: TQ8-PA760VGXB-MY

EUT: CAR AUDIO Model name(s): PA760VGXB_MY

Additional Model name(s): PA760VGMB_MY, PA760VGGB_MY

Date(s) of Tests: October 26, 2010 ~ November 04, 2010

Contact Person: Name: Seung Keun, Jeon Phone #: +82-31-288-5232

Fax #: +82-31-899-1788

Place of Tests: HCT Co., Ltd.

Icheon-si, Kyunggi-Do, Korea(Lab) (IC Recognition No.: 5944A-2)

2. EUT DESCRIPTION

Product	CAR AUDIO	
FCC Model Name	PA760VGXB_MY	
FCC Additional Model(s)	PA760VGMB_MY, PA760VGGB_MY	
Power Supply DC 12 V		
Frequency Range 2402 - 2480 MHz (Bluetooth)		
Transmit Power	3.16 dBm(2.07 mW)	
Modulation Type	GFSK(Normal), PSK(EDR)	
Modulation Technique	FHSS	
Number of Channels	79Channels	
Antenna Specification	Manufacturer: AUTO INDUSTRIAL Co., Ltd.	
	Antenna type: Chip Antenna	
	Peak Gain: -0.27 dBi	

*** 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 pseudorandomly.
- 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.

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3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz(ANSI C63.4-2003) and FCC Public Notice DA 00-705 dated March 30, 2000 entitled "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" were used in the measurement of the **HYUNDAI MOBIS CO., LTD.**

CAR AUDIO FCC ID: TQ8-PA760VGXB-MY

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 13.1.4.1 of ANSI C63.4. (Version :2003) 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. 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.

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.

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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.

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 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated June 10, 2009 (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."

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

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



7. 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)	NA		PASS
Occupied Bandwidth		NA		PASS
Conducted Maximum Peak Output Power	§15.247(b)(1)	< 1 Watts		PASS
Carrier Frequency Separation	§15.247(a)(1)	>25 kHz or >2/3 of the 20dB BW		PASS
Number of Hopping Frequencies	§15.247(a)(1)(iii)	>15	CONDUCTED	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		cf. Section 8.6.2	DADIATED	PASS
Radiated Restricted Band Edge	§15.247(d), 15.205, 15.209	cf. Section 8.6.3	RADIATED	PASS

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8. FCC PART 15.247 REQUIREMENTS

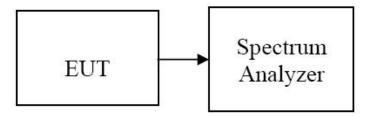
8.1 PEAK POWER

LIMIT

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

- 1. For systems using digital modulation in the bands of 902 \sim 928 MHz, 2400 \sim 2483.5 MHz, and 5725 \sim 5850 MHz; 1 watt.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 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.

- 1. Span = 2 MHz (GFSK) / 5 MHz (8DPSK)
- 2. RBW = 1 MHz (GFSK) / 3 MHz (8DPSK)
- 3. VBW = 1 MHz (GFSK) / 3 MHz (8DPSK)
- 4. Sweep = auto
- 5. Packet type= DH5 (GFSK) / 3-DH5 (8DPSK)

TEST RESULTS

No non-compliance noted

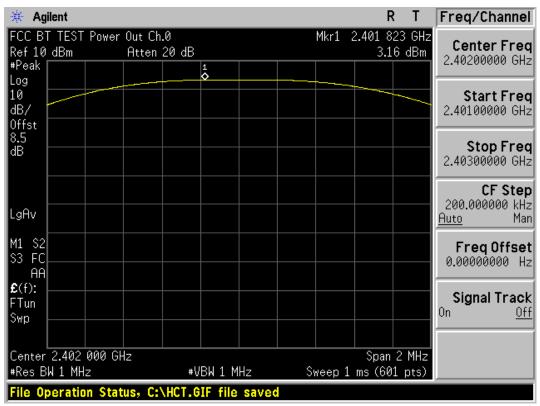
Test Data

Channel	Frequency	Output Po	Output Power(GFSK) Output Power(8DPSk		ver(8DPSK)	Limit	Result
Chamilei	(MHz)	(dBm)	(mW)	(dBm)	(mW)	(W)	Result
Low	2402	3.16	2.07	3.02	2.00		PASS
Mid	2441	1.72	1.49	1.58	1.44	1	PASS
High	2480	0.21	1.05	0.03	1.01		PASS

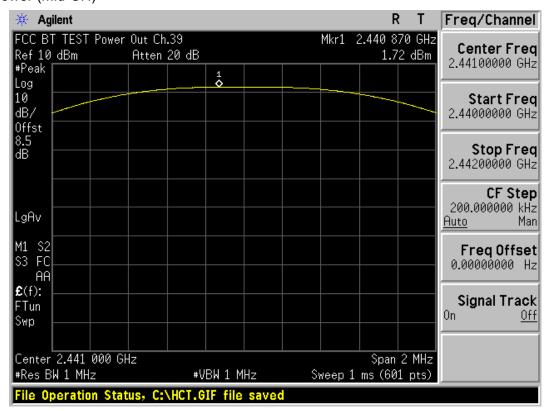
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Test Plots (GFSK) Peak Power (Low-CH)



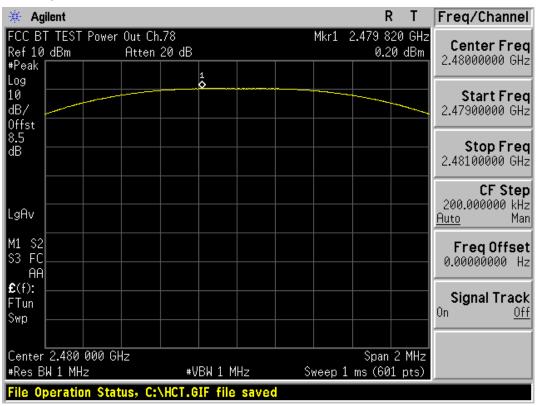
Test Plots (GFSK)
Peak Power (Mid-CH)



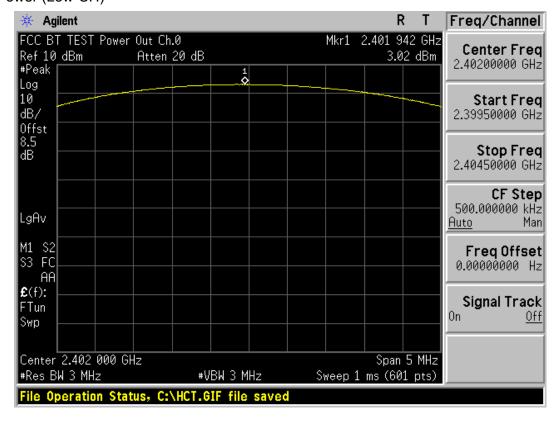
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Test Plots (GFSK)
Peak Power (High-CH)



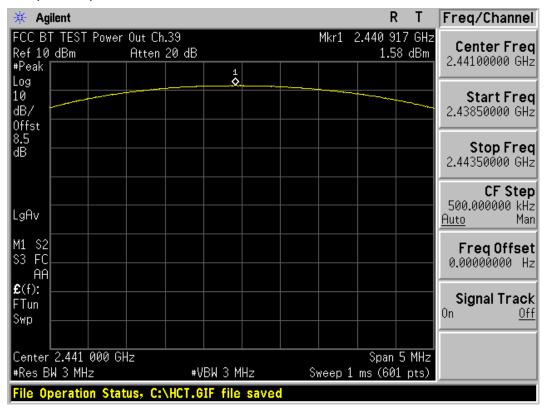
Test Plots (8DPSK)
Peak Power (Low-CH)



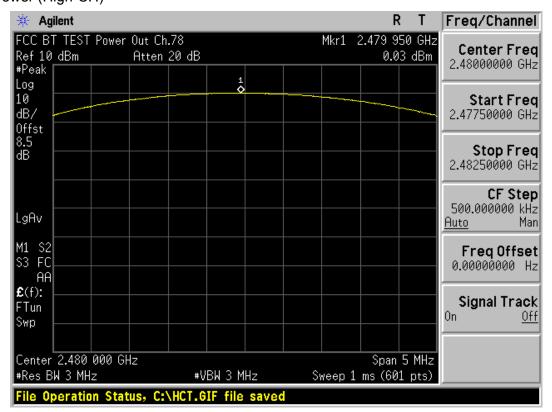
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Test Plots (8DPSK)
Peak Power (Mid-CH)



Test Plots (8DPSK)
Peak Power (High-CH)



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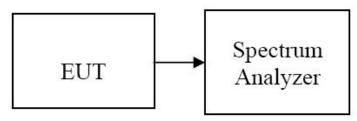


8.2 BAND EDGES MEASUREMENT

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

The spectrum analyzer is set to:

- 1. Span = 8 MHz
- 2. RBW = 100 kHz
- 3. VBW = 300 kHz
- 4. Sweep = auto
- 5. Detector Mode = Peak

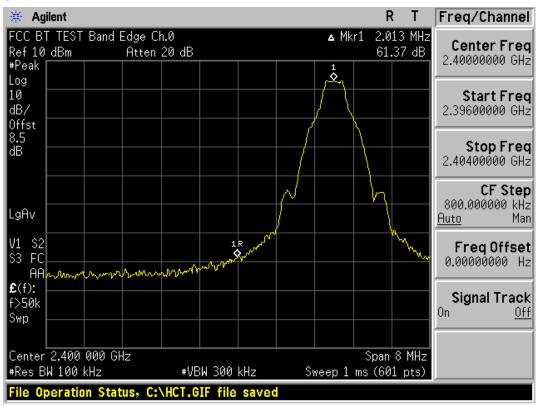
TEST RESULTS

See attached.

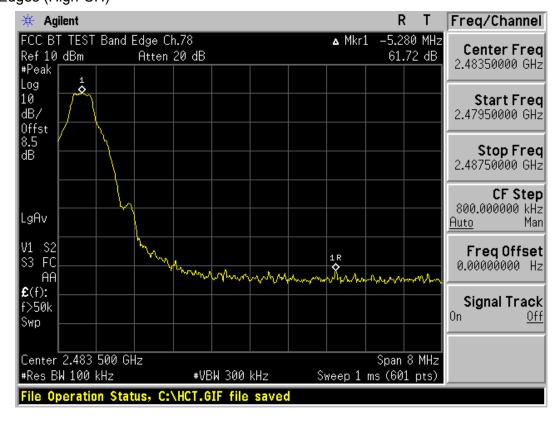
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Test Plots (GFSK) Band Edges (Low-CH)



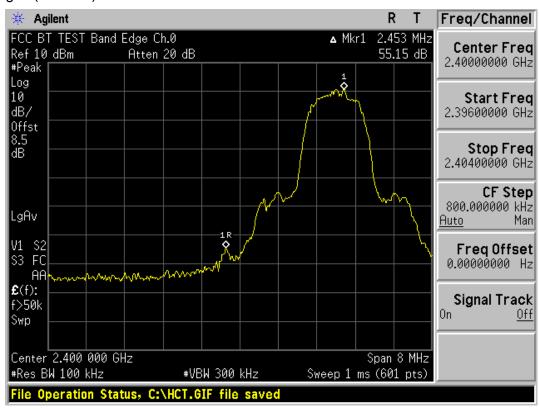
Test Plots (GFSK)
Band Edges (High-CH)



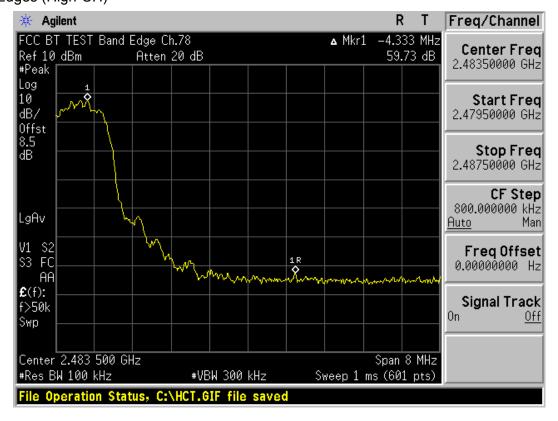
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Test Plots (8DPSK)
Band Edges (Low-CH)



Test Plots (8DPSK)
Band Edges (High-CH)



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8.3 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 spectrum analyzer is set to:

- 1. Span = 3 MHz
- 2. RBW = 30 kHz
- 3. VBW = 100 kHz
- 4. Sweep = auto

The trace was allowed to stabilize. The marker-delta function was used to determine the separation between the peaks of the adjacent channels.

TEST RESULTS

No non-compliance noted

Test Data

Channel Separation (kHz)		20dB Bandwidth (kHz)		Limit	Result	
GFSK	8DPSK	Channel	GFSK	8DPSK	(kHz)	
		Low CH	932.6	1281.0	>25 or	
1000	845	Middle CH	934.9	1285.0	>2/3 of the	Pass
		High CH	930.7	1286.0	20dB BW	

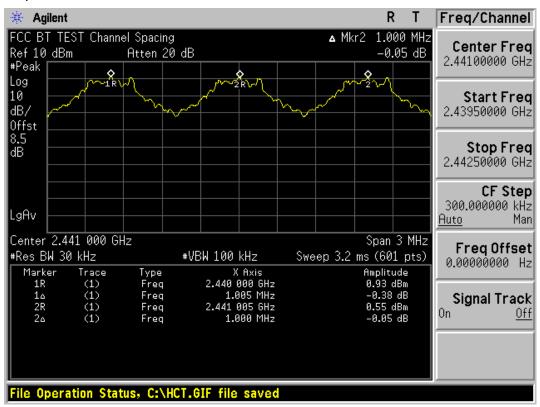
Occupied Bandwidth (99% BW)

	99% BW (kHz)					
Channel	GFSK 8DPSK		Result			
Low CH	865.6	1176.6				
Middle CH	856.1	1169.5	Pass			
High CH	853.3	1170.8				

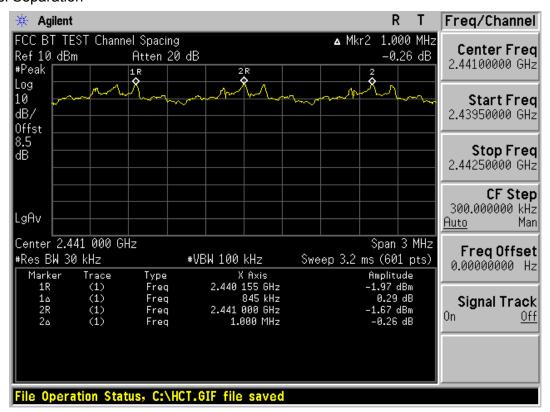
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Test Plots (GFSK) Channel Separation



Test Plots (8DPSK) Channel Separation

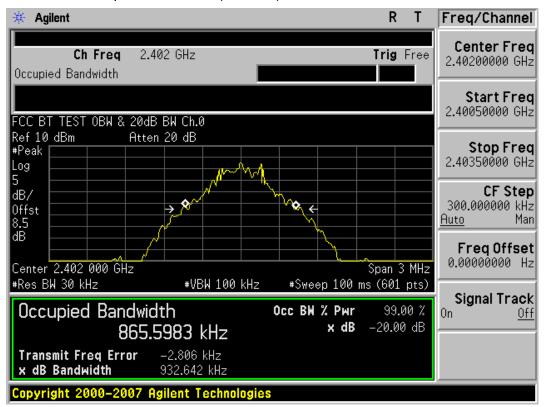


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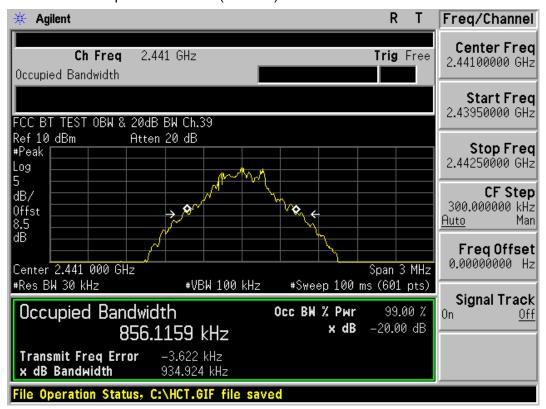
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (Low-CH)



Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (Mid-CH)

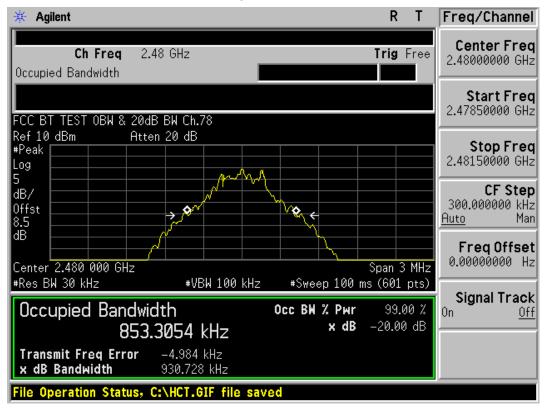


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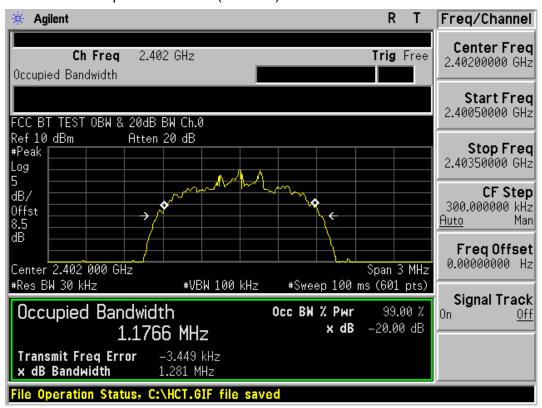
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (High-CH)



Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (Low-CH)

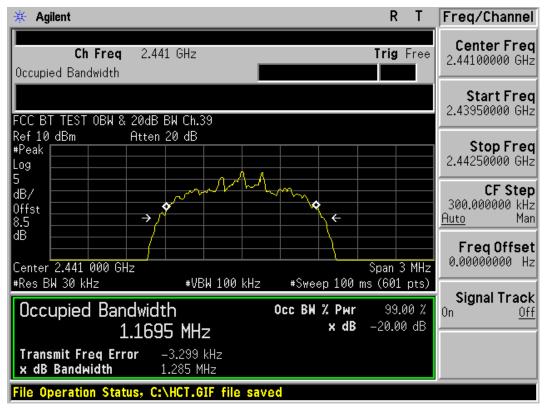


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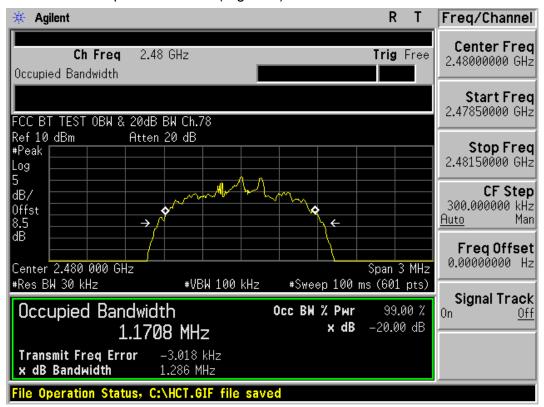
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (Mid-CH)



Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (High-CH)



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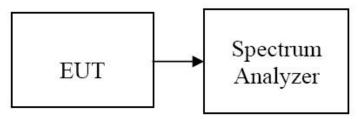


8.4 NUMBER OF HOPPING FREQUENCY

LIMIT

According to $\S15.247(a)(1)(iii)$, Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands shall use at least 15 hopping frequencies.

Test Configuration



TEST PROCEDURE

The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer was set to :

- 1. Span = the frequency band of operation (Start = 2400 MHz, Stop = 2483.5 MHz)
- 2. RBW = 300 kHz
- 3. VBW = 300 kHz
- 4. Sweep = auto

The trace was allowed to stabilize.

TEST RESULTS

No non-compliance noted

Test Data

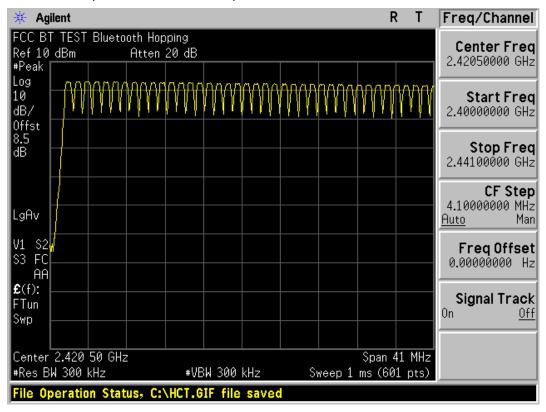
Result (N	lo. of CH)	l imale	Decult	
GFSK	8DPSK	Limit	Result	
79	79	>15	Pass	

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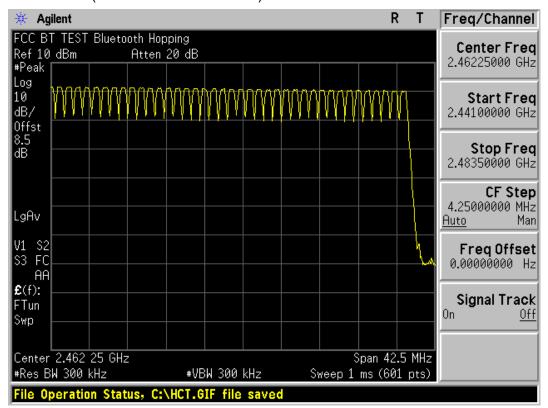
Test Plots (GFSK)

Number of Channels (2.4 GHz - 2.441 GHz)



Test Plots (GFSK)

Number of Channels (2.441 GHz - 2.4835 GHz)

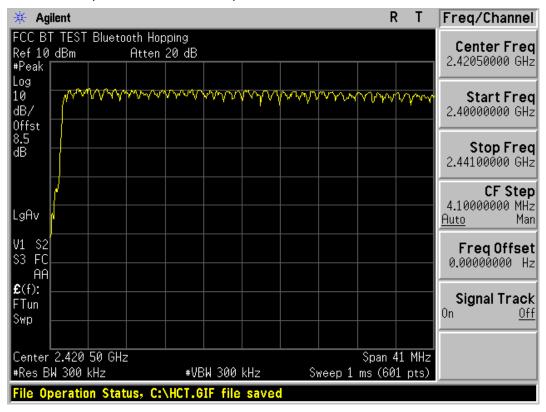


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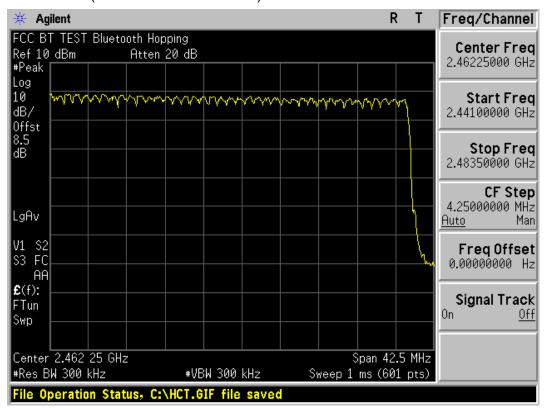
Test Plots (8DPSK)

Number of Channels (2.4 GHz - 2.441 GHz)



Test Plots (8DPSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



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8.5 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

Test Configuration



TEST PROCEDURE

EUT was set to transmit the longest packet type (DH5)

- 1. Span = zero span
- 2. RBW = 1 MHz
- 3. VBW = 1 MHz
- 4. Sweep = as necessary to capture the entire dwell time per channel

The marker-delta function was used to determine the dwell time.

TEST RESULTS

See the table.

DH 5(The longest packet type for GFSK)

CH Mid: 2.90 * (1600/6)/79 * 31.6 = 309.33 (ms)

3-DH 5(The longest packet type for 8DPSK)

CH Mid: 2.91 * (1600/6)/79 * 31.6 = 310.40 (ms)

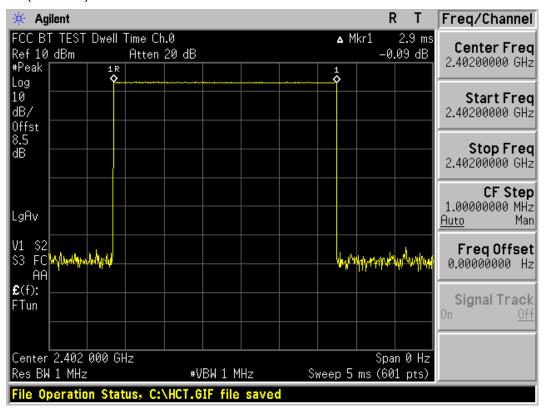
Channel	Pulse Ti	Pulse Time (ms)		Total of Dwell (ms)		Limit	Result
Citatillei	GFSK	8DPSK	GFSK	8DPSK	(s)	(ms)	Nesuit
Low	2.90	2.91	309.33	310.40	31.6		PASS
Mid	2.90	2.91	309.33	310.40	31.6	400	PASS
High	2.90	2.91	309.33	310.40	31.6		PASS

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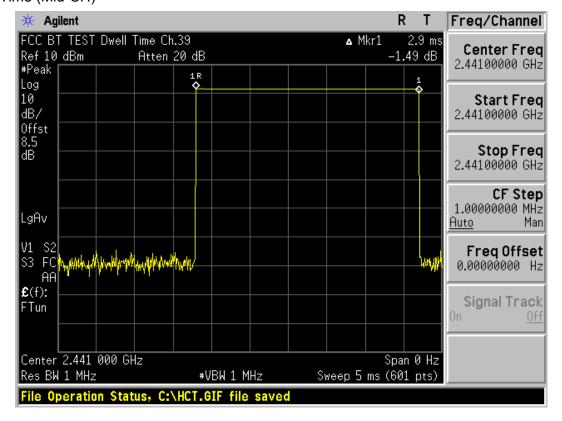


Test Plots (GFSK)

Dwell Time (Low-CH)



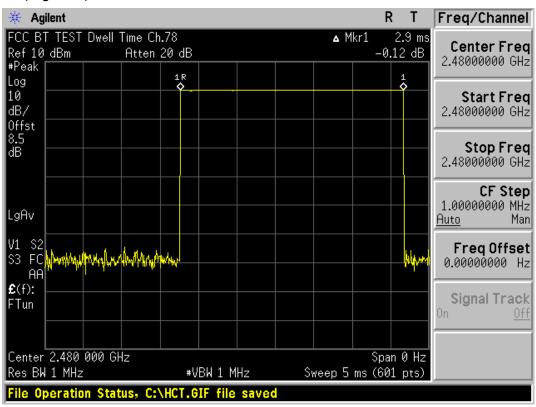
Test Plots (GFSK)
Dwell Time (Mid-CH)



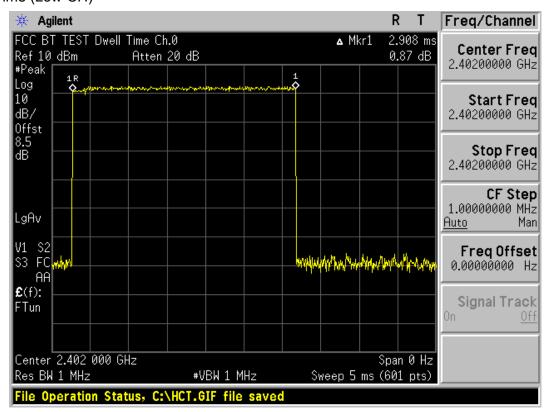
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Test Plots (GFSK)
Dwell Time (High-CH)



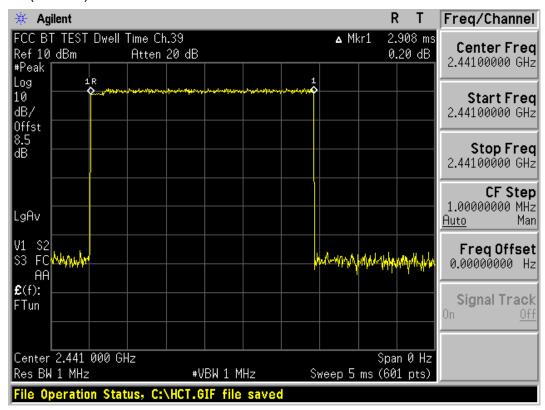
Test Plots (8DPSK)
Dwell Time (Low-CH)



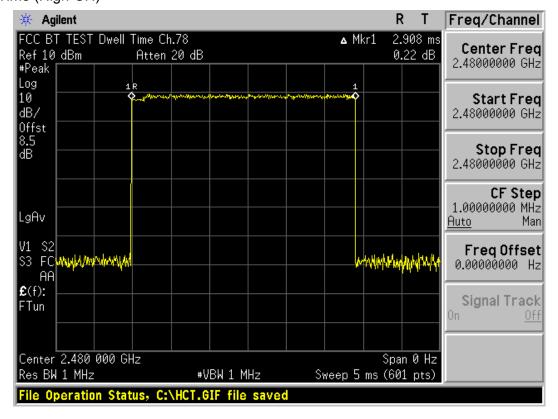
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Test Plots (8DPSK)
Dwell Time (Mid-CH)



Test Plots (8DPSK)
Dwell Time (High-CH)



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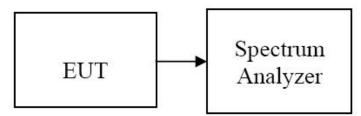
8.6 SPURIOUS EMISSIONS

8.6.1 CONDUCTED SPURIOUS MEASUREMENT

LIMIT: §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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

Detector Mode is set to a peak detector Mode.

Measurements are made over the 30 MHz to 26 GHz range with the transmitter set to the lowest, middle, and highest channels.

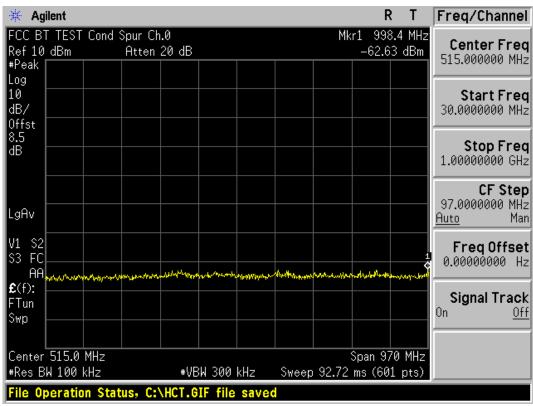
TEST RESULTS

No non-compliance noted

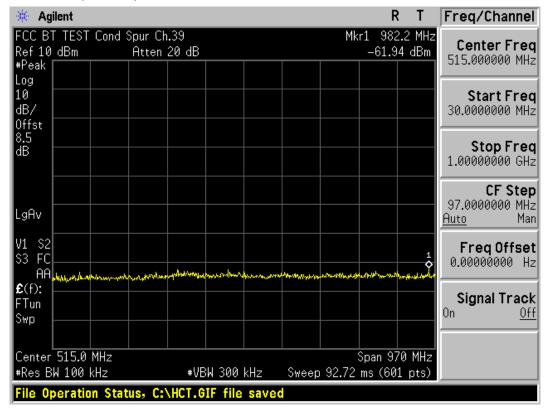
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Test Plots (GFSK) - 30 MHz - 1 GHz (RBW:100 kHz, VBW: 300 kHz) Spurious Emission (Low-CH)



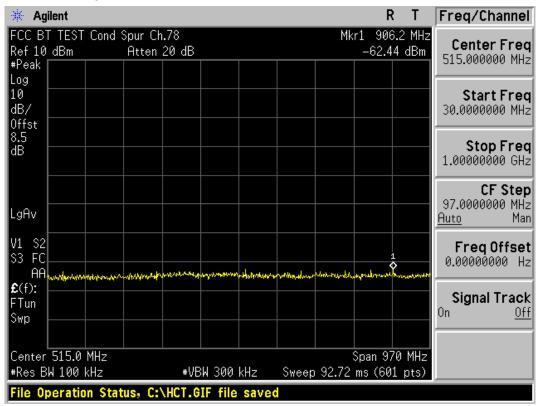
Test Plots (GFSK) - 30 MHz - 1 GHz (RBW:100 kHz, VBW: 300 kHz) Spurious Emission (Mid-CH)



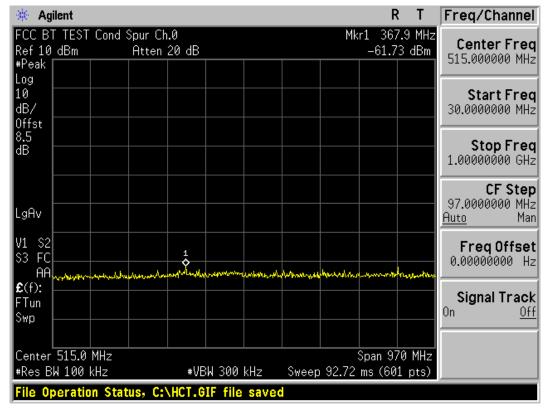
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Test Plots (GFSK) - 30 MHz - 1 GHz (RBW:100 kHz, VBW: 300 kHz) Spurious Emission (High-CH)



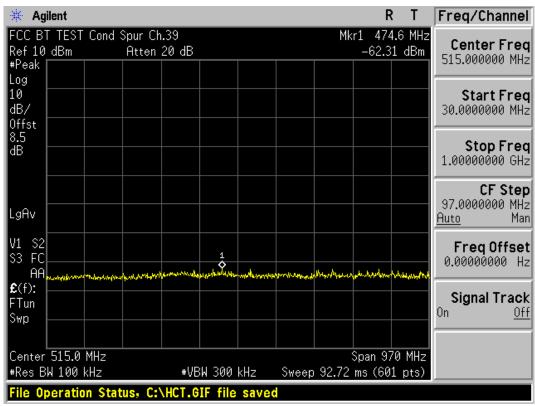
Test Plots (8DPSK) - 30 MHz - 1 GHz (RBW:100 kHz, VBW: 300 kHz) Spurious Emission (Low-CH)



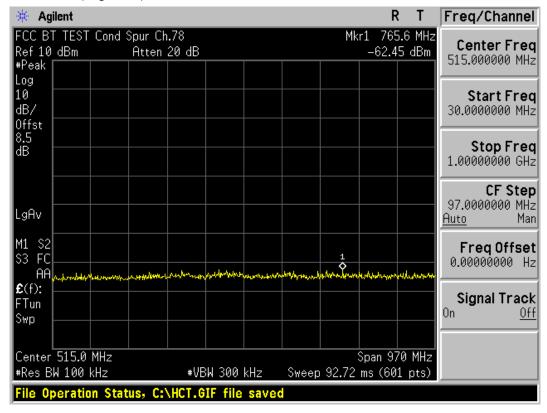
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Test Plots (8DPSK) - 30 MHz - 1 GHz (RBW:100 kHz, VBW: 300 kHz) Spurious Emission (Mid-CH)



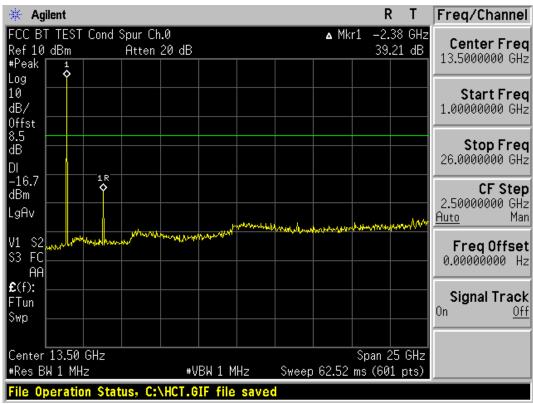
Test Plots (8DPSK) - 30 MHz - 1 GHz (RBW:100 kHz, VBW: 300 kHz) Spurious Emission (High-CH)



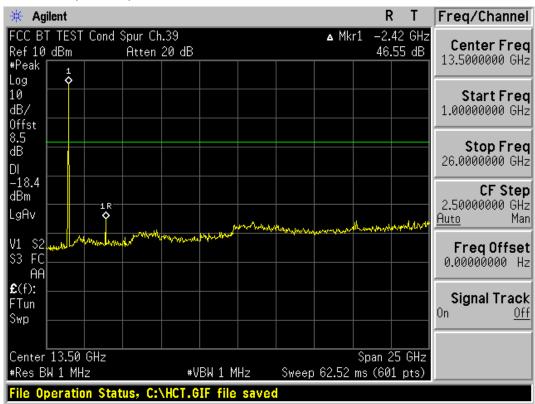
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Test Plots (GFSK) - 1 GHz - 26 GHz (RBW:1 MHz, VBW: 1 MHz) Spurious Emission (Low-CH)



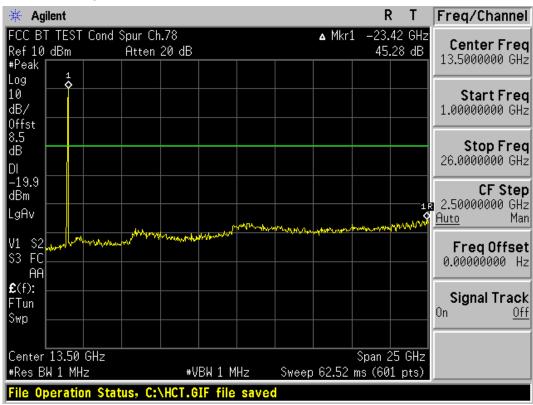
Test Plots (GFSK) - 1 GHz - 26 GHz (RBW:1 MHz, VBW: 1 MHz) Spurious Emission (Mid-CH)



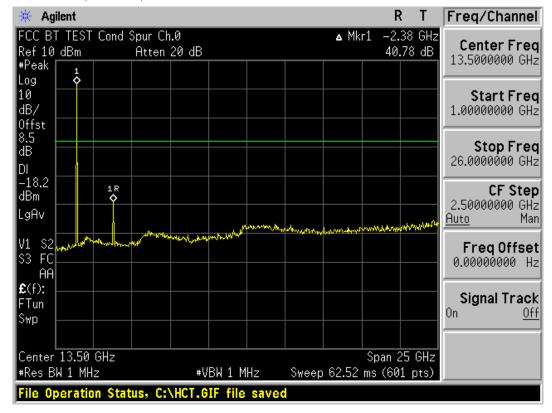
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Test Plots (GFSK) - 1 GHz - 26 GHz (RBW:1 MHz, VBW: 1 MHz) Spurious Emission (High-CH)



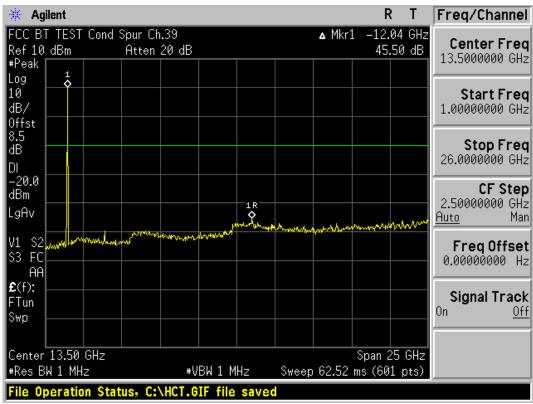
Test Plots (8DPSK) - 1 GHz - 26 GHz (RBW:1 MHz, VBW: 1 MHz) Spurious Emission (Low-CH)



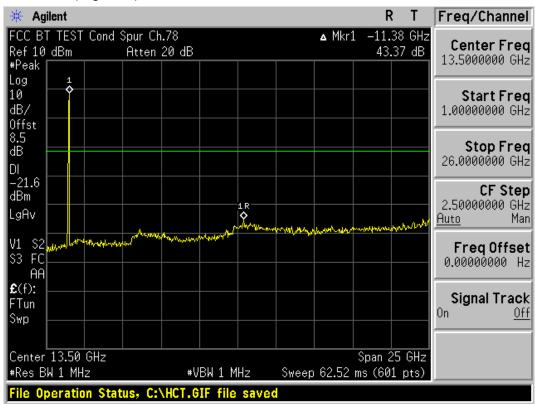
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Test Plots (8DPSK) - 1 GHz - 26 GHz (RBW:1 MHz, VBW: 1 MHz) Spurious Emission (Mid-CH)



Test Plots (8DPSK) - 1 GHz - 26 GHz (RBW:1 MHz, VBW: 1 MHz) Spurious Emission (High-CH)



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8.6.2 RADIATED SPURIOUS EMISSIONS

LIMIT: §15.247(d), §15.205, §15.209

1. 20dBc in any 100kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

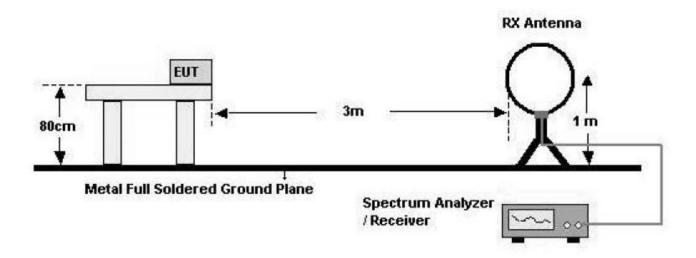
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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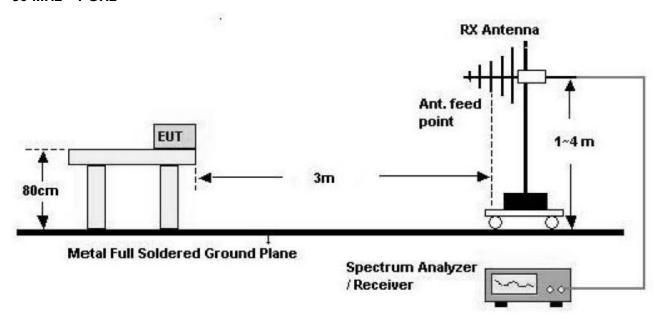


Test Configuration

Below 30 MHz



30 MHz - 1 GHz



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Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

9 kHz - 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μV	dB /m	dB	(H/V)	dBμV/m	dB <i>μ</i> V/m	dB
No Critical peaks found							

- 1. Measuring frequencies from 9 kHz to the 30MHz.
- 2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 4. Limit line = specific Limits (dBuV) + Distance extrapolation factor

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TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode (Channel: 2402)

Frequency	Reading	Ant. Factor	Cable Loss	ANT POL	Total	Limit	Margin
MHz	dBuV	dB/m	dB	(H/V)	dBuV/m	dBuV/m	dB
250.19	11.6	11.6	2.0	V	25.24	46.0	20.8
820.55	12.6	22.6	3.9	Н	39.09	46.0	6.9
952.47	12.3	24.0	4.0	V	40.30	46.0	5.7

- 1. Measuring frequencies from 30 MHz to the 1 GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
- 3. We have done Normal Mode and EDR Mode test. Worst case of EUT is Normal Mode.

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Above 1 GHz

Operation Mode: CH Low(GFSK)

Frequency	Reading	*A.F+CL-AMP GAIN	ANT. POL	Total	Limit	Margin	Detect
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4804	39.69	9.71	Н	49.40	74	24.60	PK
4804	29.87	9.71	Н	39.58	54	14.42	AV
7206	30.78	18.71	Н	49.49	74	24.51	PK
7206	17.07	18.71	Н	35.78	54	18.22	AV
4804	40.52	9.71	V	50.23	74	23.77	PK
4804	32.17	9.71	V	41.88	54	12.12	AV
7206	31.54	18.71	V	50.25	74	23.75	PK
7206	17.29	18.71	V	36.00	54	18.00	AV

* A·F: ANTENNA FACTOR

C·L: CABLE LOSS

AMP GAIN: AMPLIFIER GAIN

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 10 Hz.
- 5. We have done Normal Mode and EDR Mode test. Worst case of EUT is Normal Mode.

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Operation Mode: CH Mid(GFSK)

Frequency	Reading	※A.F+CL-AMP GAIN.	ANT. POL	Total	Limit	Margin	Detect
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4882	32.91	11.03	Н	43.94	74	30.06	PK
4882	18.60	11.03	Н	29.63	54	24.37	AV
7323	31.41	18.05	Н	49.46	74	24.54	PK
7323	17.49	18.05	Н	35.54	54	18.46	AV
4882	33.05	11.03	V	44.08	74	29.92	PK
4882	18.75	11.03	V	29.78	54	24.22	AV
7323	31.29	18.05	V	49.34	74	24.66	PK
7323	17.47	18.05	V	35.52	54	18.48	AV

※ A⋅F: ANTENNA FACTOR

C·L: CABLE LOSS

AMP GAIN: AMPLIFIER GAIN

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 10 Hz.
- 5. We have done Normal Mode and EDR Mode test. Worst case of EUT is Normal Mode.

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Operation Mode: CH High(GFSK)

Frequency	Reading	*A.F+CL-AMP GAIN	ANT. POL	Total	Limit	Margin	Detect
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4960	33.84	10.92	Н	44.76	74	29.24	PK
4960	20.33	10.92	Н	31.25	54	22.75	AV
7440	31.67	19.35	Н	51.02	74	22.98	PK
7440	17.76	19.35	Н	37.11	54	16.89	AV
4960	34.12	10.92	V	45.04	74	28.96	PK
4960	21.24	10.92	V	32.16	54	21.84	AV
7440	31.16	19.35	V	50.51	74	23.49	PK
7440	17.71	19.35	V	37.06	54	16.94	AV

※ A⋅F: ANTENNA FACTOR

C·L: CABLE LOSS

AMP GAIN: AMPLIFIER GAIN

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 10 Hz.
- 5. We have done Normal Mode and EDR Mode test. Worst case of EUT is Noraml Mode.

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8.6.3 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

Test Requirements and limit, §15.247(d), §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c).

Operation Mode GFSK(Normal)

Operating Frequency 2402 MHz, 2480 MHz

Channel No CH 0, CH 78

Frequency	Reading	፠ A.F.+CL	ANT. POL	Total	Limit	Margin	Detect
[MHz]	dBuV	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
2371.12	16.84	37.96	Н	54.80	74	19.20	PK
2371.12	3.09	37.96	Н	41.05	54	12.95	AV
2370.44	16.87	37.96	V	54.83	74	19.17	PK
2370.44	3.03	37.96	V	40.99	54	13.01	AV
2483.50	17.61	39.92	Н	57.53	74	16.47	PK
2483.50	11.00	39.92	Н	50.92	54	3.08	AV
2483.50	18.89	39.92	V	58.81	74	15.19	PK
2483.50	10.32	39.92	V	50.24	54	3.76	AV

* A·F: ANTENNA FACTOR

C·L: CABLE LOSS

- 1. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz.
 - b. AV Setting 1 GHz 26 GHz, RBW=1 MHz, VBW= 10 Hz.
- 2. We have done Normal Mode and EDR Mode test. Worst case of EUT is Normal Mode.

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8.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Fraguency Pange (MUT)	Limits (dBμV)				
Frequency Range (MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
- 2. The EUT is connected via LISN to a test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.

Note: We don't perform powerline conducted emission test. Because this EUT use with vehicle.

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9. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Calibration Interval	Calibration Due	Serial No.	
Rohde & Schwarz	ESH2-Z5/ LISN	Annual	03/24/2011	861741/013	
Rohde & Schwarz	ESH3-Z6/ LISN	Annual	03/05/2011	100329	
Schwarzbeck	VULB 9160/ TRILOG Antenna	Biennial	12/18/2010	9160-3150	
HD	MA240/ Antenna Position Tower	N/A	N/A	556	
EMCO	1050/ Turn Table	N/A	N/A	114	
HD GmbH	HD 100/ Controller	N/A	N/A	13	
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12	
Rohde & Schwarz	ESH3-Z2/ PULSE LIMITER	Annual	10/25/2011	375.8810.352	
MITEQ	AMF-6D-001180-35-20P/AMP	Annual	05/20/2011	990893	
MITEQ	AFS44-00101800-35-20P-44-PS/AMP	Annual	04/05/2011	1119544	
Schwarzbeck	BBHA 9120D/ Horn Antenna	Biennial	09/23/2011	296	
Rohde & Schwarz	FSP30 / Spectrum Analyzer	Annual	03/25/2011	839117/011	
Agilent	E4440A / Spectrum Analyzer	Annual	06/09/2011	US45303008	
Agilent	E4416A /Power Meter	Annual	01/14/2011	GB41291412	
Agilent	E9327A /POWER SENSOR	Annual	07/23/2011	MY4442009	
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	Annual	06/25/2011	1	
Wainwright Instrument	WRCJ2400/2483.5-2370/2520- 60/14SS / Band Reject Filter	Annual	07/23/2011	1	
Hewlett Packard	11636B/Power Divider	Annual	12/24/2010	11377	
DIGITAL	EP-3010 /DC POWER SUPPLY	Annual	01/08/2011	3110117	
ITECH	IT6720 / DC POWER SUPPLY	Annual	12/01/2010	010002156287001199	
TESCOM	TC-3000A / BLUETOOTH TESTER	Annual	01/11/2011	3000A490112	
Rohde & Schwarz	CBT / BLUETOOTH TESTER	Annual	06/24/2011	100422	
EMCO	6502.LOOP ANTENNA	Biennial	01/13/2012	9009-2536	

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