

FCC Part 15C Measurement and Test Report

For

SHENZHEN FANGHUA DLP TECHNOLOGY CO.,LTD

Room 316, China Academy of science&technology development park, Gaoxin south 1st road, Nanshan district, Shenzhen

FCC ID: 2AKISFHPC-01

FCC Rule(s): FCC Part 15.247

Product Description: Crescent Mini PC Console Projector

Tested Model: FHPC-01

Report No.: STR16128003I-2

Tested Date: 2017-06-12 to 2017-06-28

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.



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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: SHENZHEN FANGHUA DLP TECHNOLOGY

CO.,LTD

Address of applicant: Room 316, China Academy of science&technology

development park, Gaoxin south 1st road, Nanshan

district, Shenzhen

Manufacturer: SHENZHEN FANGHUA DLP TECHNOLOGY

CO.,LTD

Address of manufacturer: Room 316, China Academy of science&technology

development park, Gaoxin south 1st road, Nanshan

district, Shenzhen

General Description of EUT	
Product Name:	Crescent Mini PC Console Projector
Trade Name:	1
Model No.:	FHPC-01
Adding Model(s):	CRES-A1, FHPC-02, FHPC-03, FHPC-04
Rated Voltage:	DC12.6V
Battery Capacity:	15600mAh
	BYX-190300E
Power Adapter Model:	INPUT:100-240VAC 50/60Hz MAX 1.5A
	OUTPUT:19VDC 3000mA

Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model FHPC-01, but the circuit and the electronic construction do not change, declared by the manufacturer.

Technical Characteristics of EUT	
Bluetooth Version:	V4.0(EDR mode)
Frequency Range:	2402-2480MHz
RF Output Power:	4.56dBm (Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, Pi/4 QDPSK, 8DPSK
Quantity of Channels:	79
Channel Separation:	1MHz
Type of Antenna:	Integral
Antenna Gain:	2.0dBi

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Lowest Internal Frequency of EUT: 24MHz

1.2 Test Standards

The following report is prepared on behalf of the SHENZHEN FANGHUA DLP TECHNOLOGY CO.,LTD in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC - Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

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1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode L	ist	
Test Mode	Description	Remark
TM1	Low Channel	2402MHz
TM2	Middle Channel	2441MHz
TM3	High Channel	2480MHz
TM4	Hopping	2402-2480MHz

Modulation Configure			
Modulation	Packet	Packet Type	Packet Size
	DH1	4	27
GFSK	DH3	11	183
	DH5	15	339
	2DH1	20	54
Pi/4 DQPSK	2DH3	26	367
	2DH5	30	679
	3DH1	24	83
8DPSK	3DH3	27	552
	3DH5	31	1021

Normal mode: the Bluetooth has been tested on the modulation of GFSK, (Pi/4)DQPSK and 8DPSK, compliance test and record the worst case.

Accessories Equipment List and Details			
Description	Manufacturer	Model No.	Serial Number
Computer	Lenovo	ThinkPad Edge E445	/
USB Disk	SanDisk	CZ50(32G)	/
Accessories Cable List	and Details		
Cable Description	Length (m)	Shielded/Unshielded	With Core/Without Core
HDMI CABLE	1.2	Unshielded	Without Core
EUT Cable List and D	EUT Cable List and Details		
Cable Description	Length (m)	Shielded/Unshielded	With Core/Without Core
USB CABLE	1.0	Unshielded	Without Core
DC CABLE	1.18	Unshielded	Without Core
AC CABLE	1.50	Unshielded	Without Core

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1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	±2.88dB
Transmitter Spurious Emissions	Radiated	±5.1dB

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2018-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2018-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2018-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11

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2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.209(a)	Radiated Spurious Emissions	Compliant
§ 15.247(a)(1)(iii)	Quantity of Hopping Channel	Compliant
§ 15.247(a)(1)	Channel Separation	Compliant
§ 15.247(a)(1)(iii)	Time of Occupancy (Dwell time)	Compliant
§ 15.247(a)	20dB Bandwidth	Compliant
§ 15.247(b)(1)	RF Power Output	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant
§ 15.247(a)(1)	Frequency Hopping Sequence	Compliant
§ 15.247(g), (h)	Frequency Hopping System	Compliant

N/A: not applicable

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3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.

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4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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.

4.2 Evaluation Information

This product has an integral antenna, fulfill the requirement of this section.

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5. Frequency Hopping System Requirements

5.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

- (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.
- (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. 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.

5.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

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This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for DA 00-705 and FCC Part 15.247 rule.

5.3 EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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TEST Model: FHPC-01

6. Quantity of Hopping Channels and Channel Separation

6.1 Standard Applicable

According to FCC 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, and frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

6.2 Test Procedure

According to ANSI C63.10-2013 section 7.8.3, the number of hopping frequencies test method as follows.

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW \geq RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

According to ANSI C63.10-2013 section 7.8.2, the EUT shall have its hopping function enabled, the Carrier frequency separation test method as follows:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) 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.
- c) Video (or average) bandwidth (VBW) \geq RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

6.3 Environmental Conditions

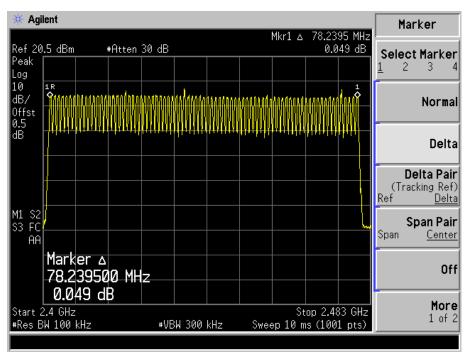
Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

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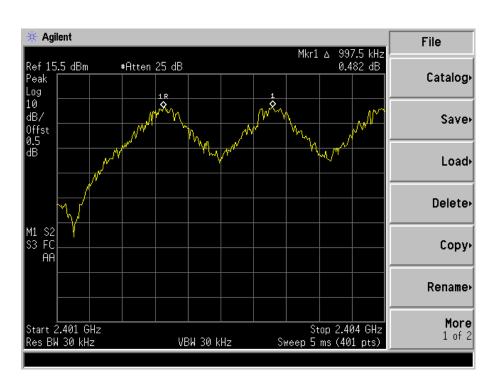


6.4 Summary of Test Results/Plots

No. of Channel = 79

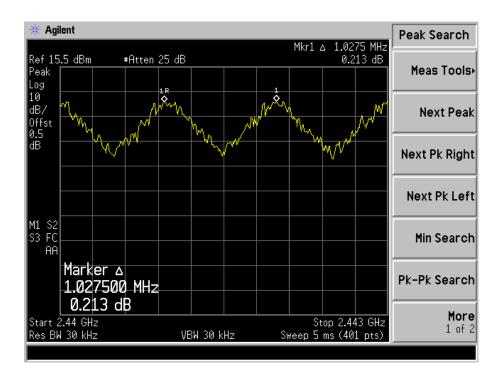


For GFSK mode Channel Spacing (Low CH=1MHz)

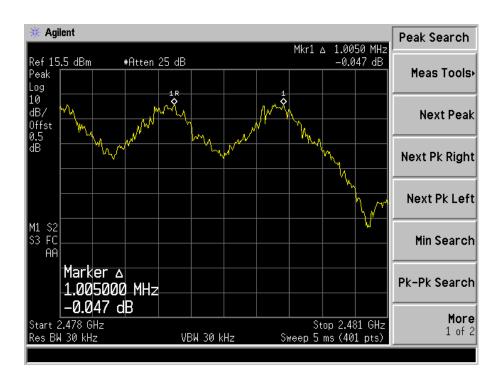




Channel Spacing (Middle CH=1MHz)

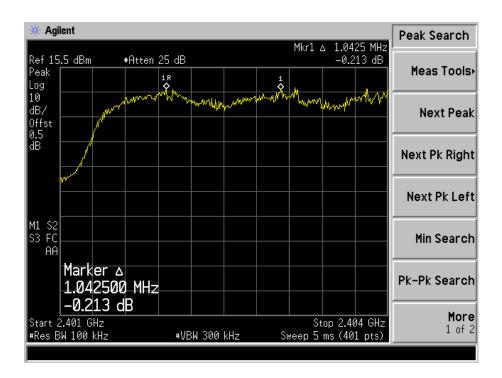


Channel Spacing (High CH=1MHz)

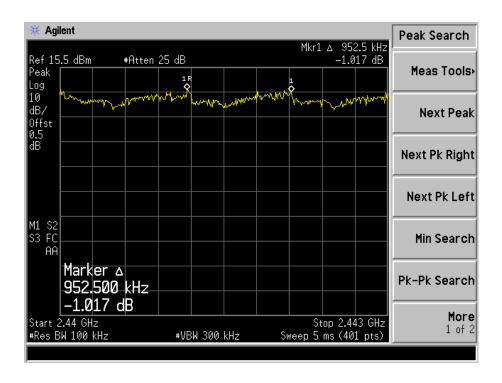




For 8DPSK mode Channel Spacing (Low CH=1MHz)

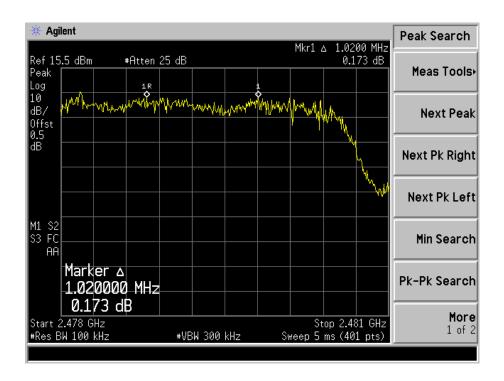


Channel Spacing (Middle CH=1MHz)





Channel Spacing (High CH=1MHz)





7. Dwell Time of Hopping Channel

7.1 Standard Applicable

According to 15.247(a)(1)(iii), Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

7.2 Test Procedure

According to ANSI C63.10-2013 section 7.8.4, the dwell time of a hopping channel test method as follows.

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start
- of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) =

(number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation. The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

7.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

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7.4 Summary of Test Results/Plots

The dwell time within a period in data mode is independent from the packet type (packet length). Test data is corrected with the worse case, which the packet length is DH1, DH3, and DH5.

The test period: T = 0.4 Second * 79 Channel = 31.6 s

Dwell time = time slot length * (Hopping rate / Number of hopping channels) * Period

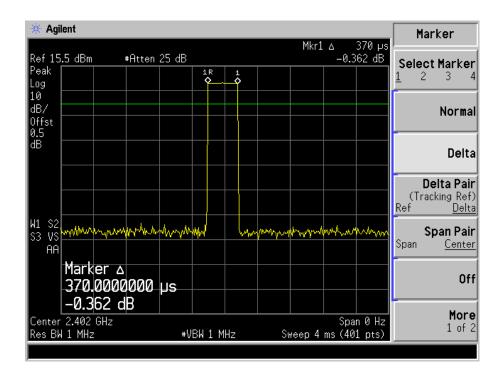
Madalatian	Test Channel	Packet	Time Slot Length	Dwell Time	Limit
Modulation			ms	ms	ms
	2402MHz	DH1	0.37	118.40	400
		DH3	1.62	259.20	400
		DH5	2.87	305.60	400
	2441MHz	DH1	0.35	112.00	400
GFSK		DH3	1.61	257.60	400
		DH5	2.88	307.20	400
	2480MHz	DH1	0.37	118.40	400
		DH3	1.61	257.60	400
		DH5	2.87	305.60	400
	2402MHz	3DH1	0.37	118.40	400
		3DH3	1.63	260.80	400
8DPSK		3DH5	2.88	307.20	400
		3DH1	0.36	115.20	400
	2441MHz	3DH3	1.62	259.20	400 400 400 400 400 400 400 400
		3DH5	2.87	305.60	400
	2480MHz	3DH1	0.37	118.40	400
		3DH3	1.61	257.60	400
		3DH5	2.85	304.00	400

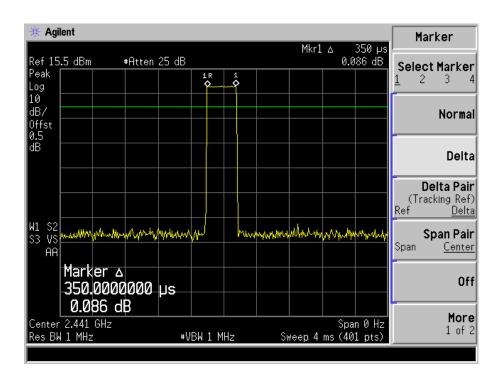
Please refer to the test plots as below:

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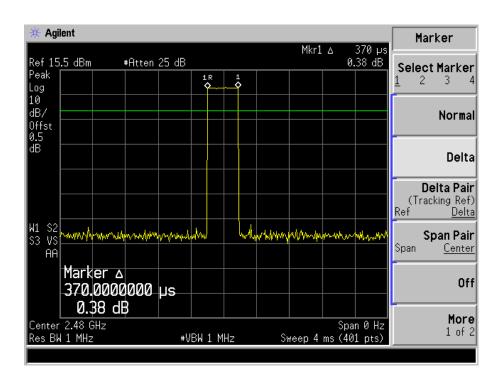


DH1 time slot (Low, Middle, High Channels)

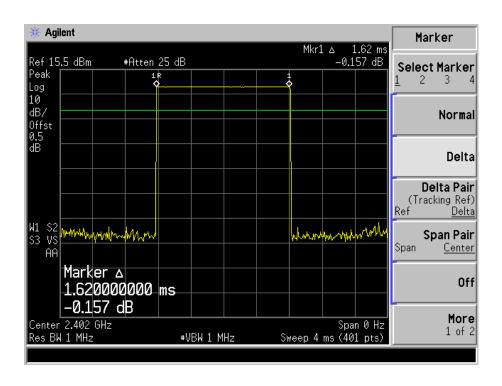




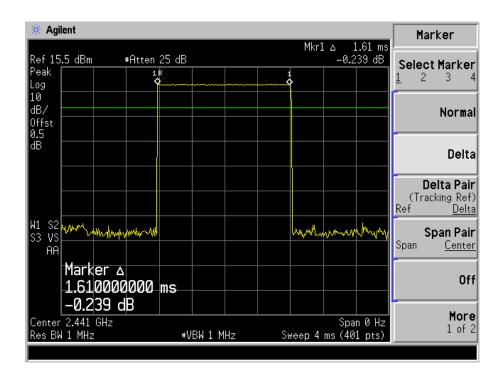


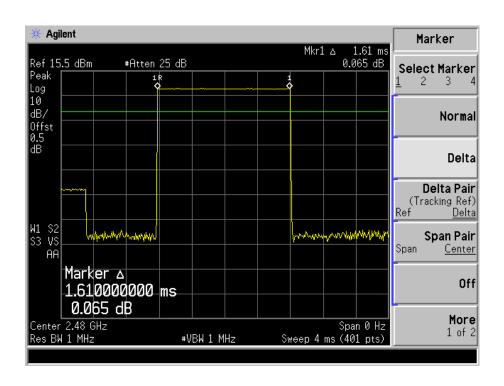


DH3 time slot (Low, Middle, High Channels)



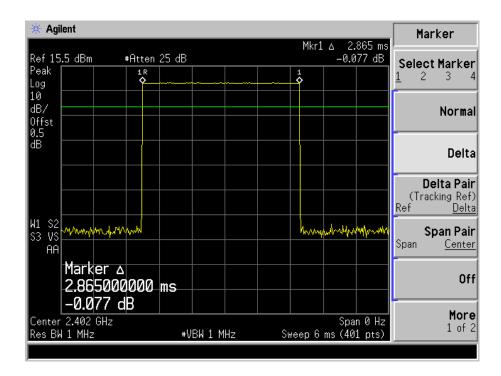


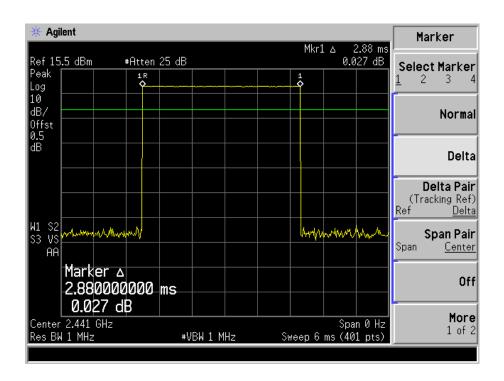




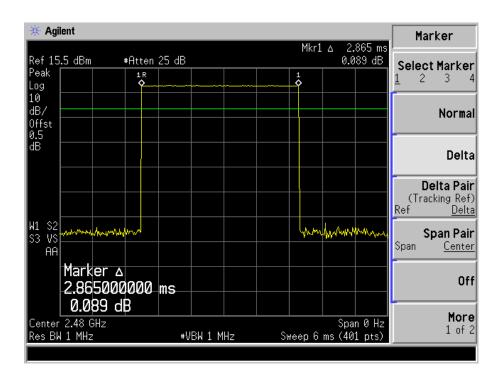


DH5 time slot (Low, Middle, High Channels)

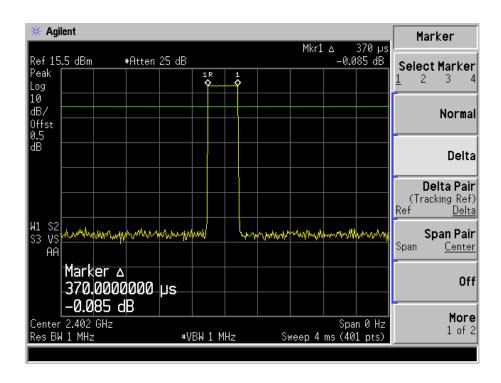




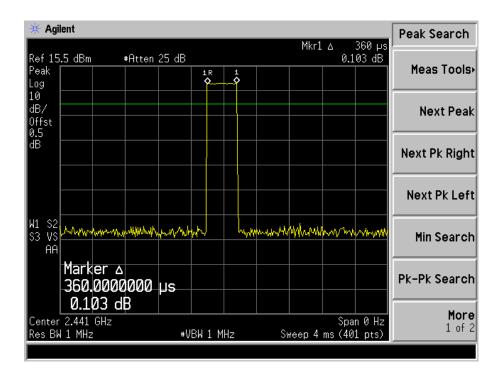


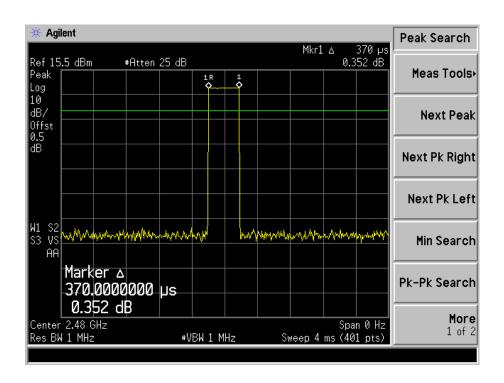


3DH1 time slot (Low, Middle, High Channels)



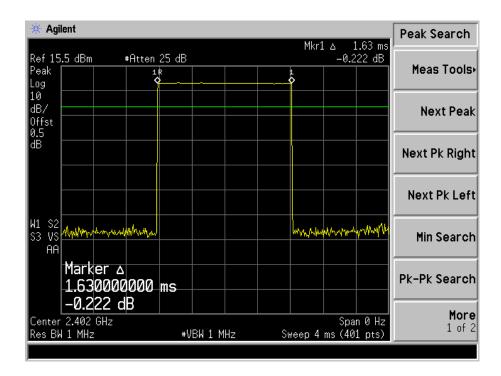


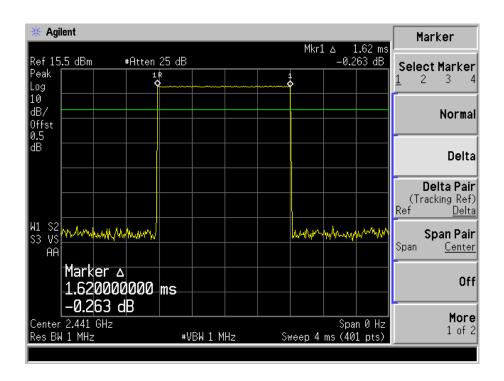




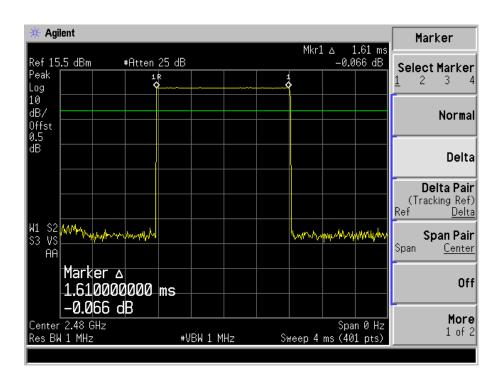


3DH3 time slot (Low, Middle, High Channels)

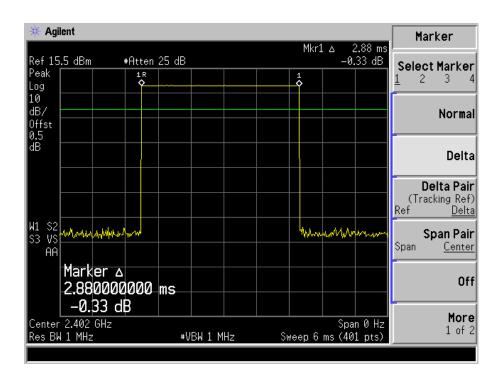




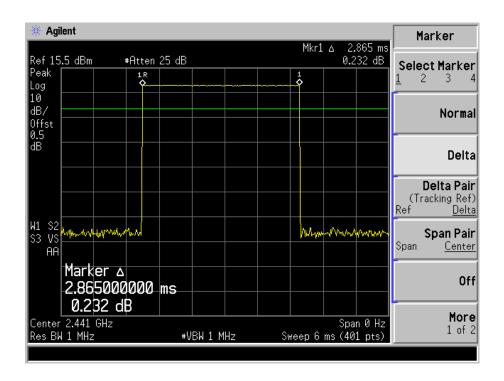


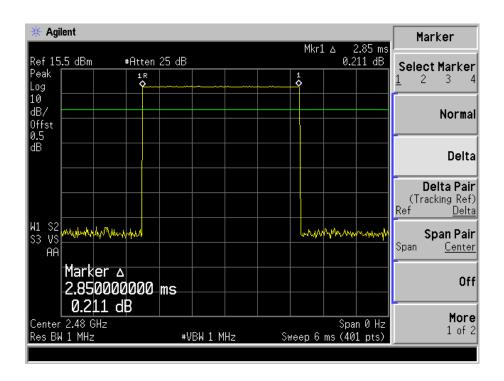


3DH5 time slot (Low, Middle, High Channels)











8. 20dB Bandwidth

8.1 Standard Applicable

According to 15.247(a) and 15.215(c). 20dB bandwidth is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

8.2 Test Procedure

According to ANSI C63.10-2013 section 6.9.2, the 20dB bandwidth test method as follows.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum 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.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the "-xx dB down amplitude" using [(reference value) -xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "-xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

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8.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

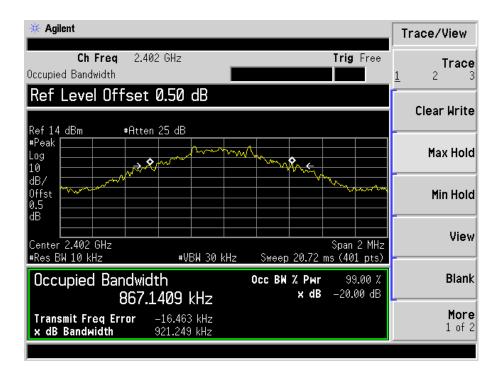
8.4 Summary of Test Results/Plots

Test Mode	Test Channel MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Result
GFSK	2402	921.249	867.1409	Pass
	2441	921.144	873.2521	Pass
	2480	936.569	876.6577	Pass
8DPSK	2402	1256.000	1271.6000	Pass
	2441	1251.000	1265.3000	Pass
	2480	1262.000	1233.7000	Pass

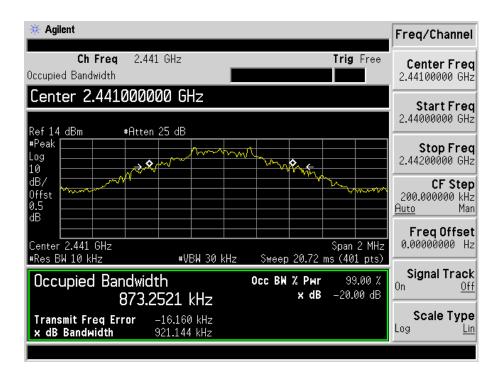
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For GFSK Low Channel:

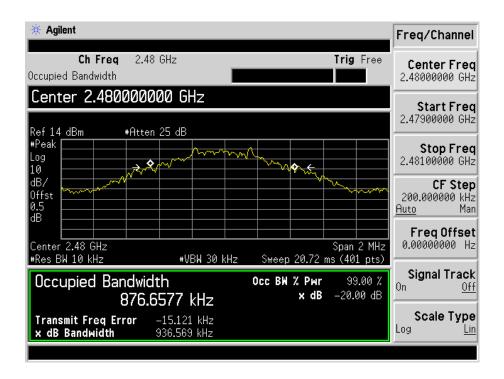


Middle Channel:

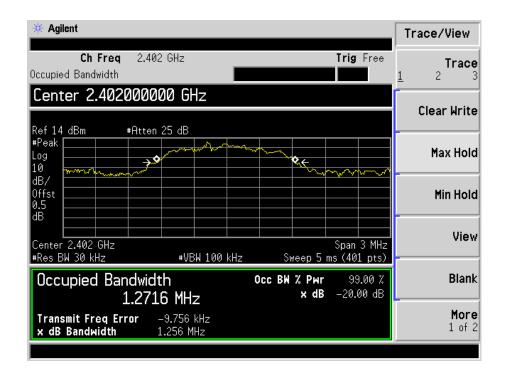




High Channel:

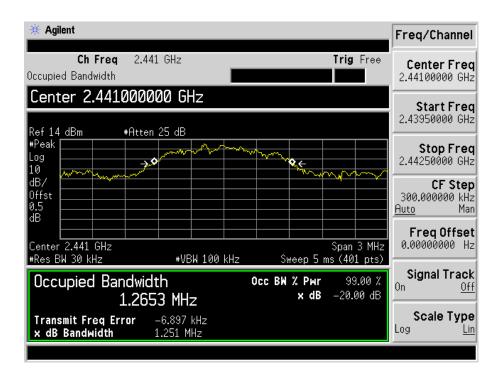


For 8DPSK Low Channel:

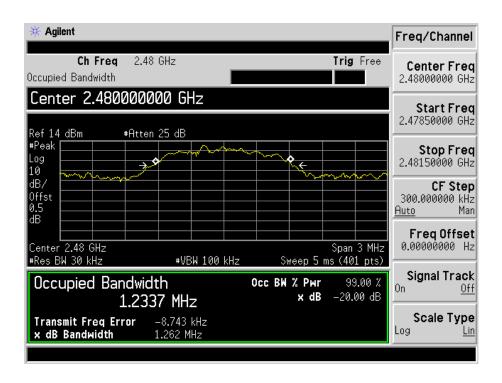




Middle Channel:



High Channel:





9. RF Output Power

9.1 Standard Applicable

According to 15.247(b)(1). 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 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

9.2 Test Procedure

According to ANSI C63.10-2013 section 7.8.5, the output power test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW \geq RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

9.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

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For GFSK

Channal	Frequency	Measured Value	Output Power	Limit
Channel	MHz	dBm	mW	mW
Low Channel	2402	4.56	2.86	1000
Middle Channel	2441	4.37	2.74	1000
High Channel	2480	3.98	2.50	1000

For Pi/4 QDPSK

Channel	Frequency MHz	Measured Value dBm	Output Power mW	Limit mW
Low Channel	2402	3.478	2.23	1000
Middle Channel	2441	3.343	2.16	1000
High Channel	2480	3.309	2.14	1000

For 8DPSK

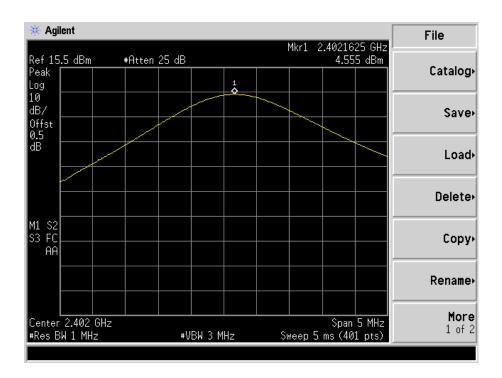
Channel	Frequency MHz	Measured Value dBm	Output Power mW	Limit mW
Low Channel	2402	3.501	2.24	1000
Middle Channel	2441	3.351	2.16	1000
High Channel	2480	3.341	2.16	1000

Note: the antenna gain of 2.0dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.

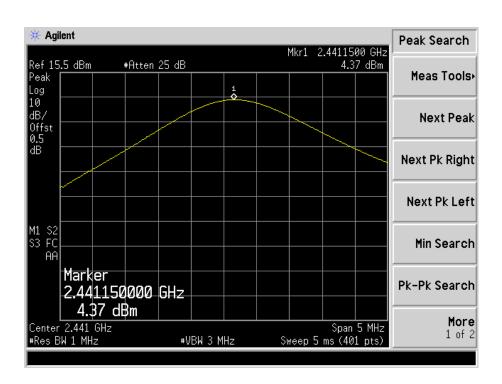
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For GFSK Low Channel

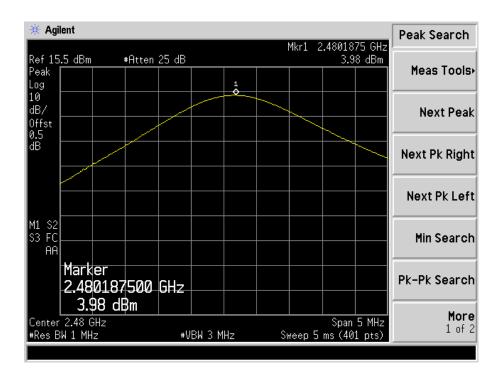


Middle Channel

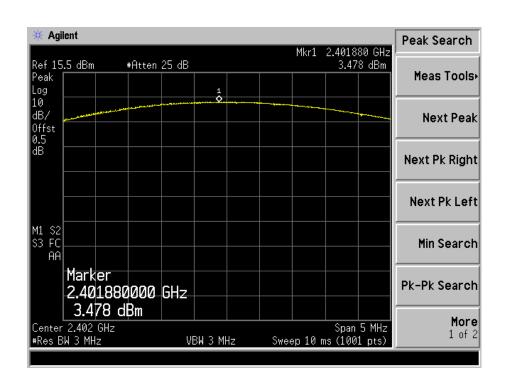




High Channel

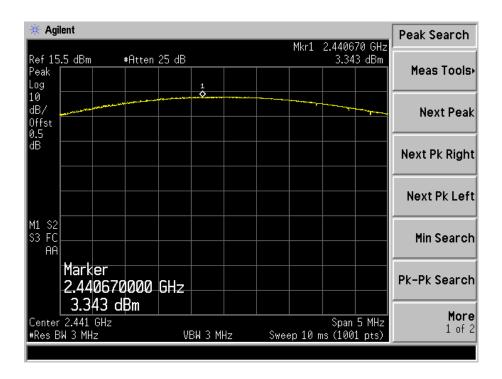


For Pi/4 QDPSK Low Channel

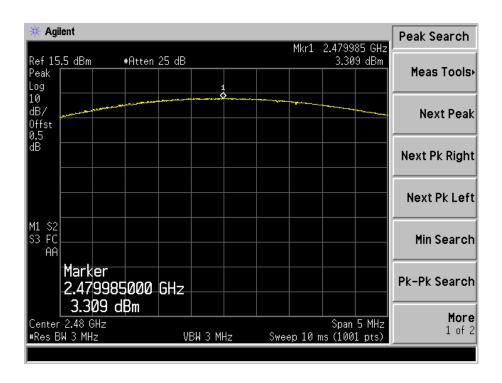




Middle Channel

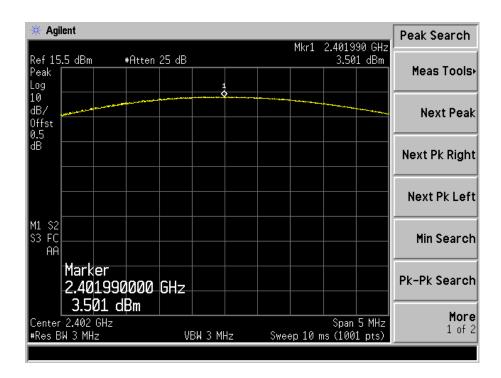


High Channel

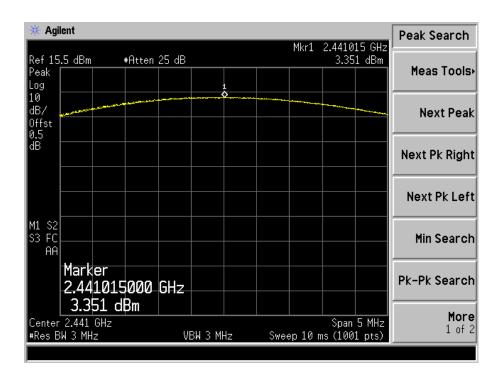




For 8DPSK Low Channel

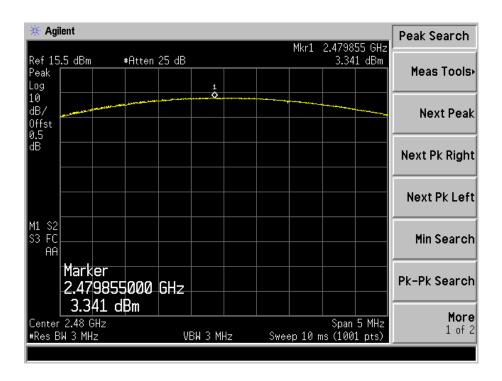


Middle Channel





High Channel



10. Field Strength of Spurious Emissions

10.1 Standard Applicable

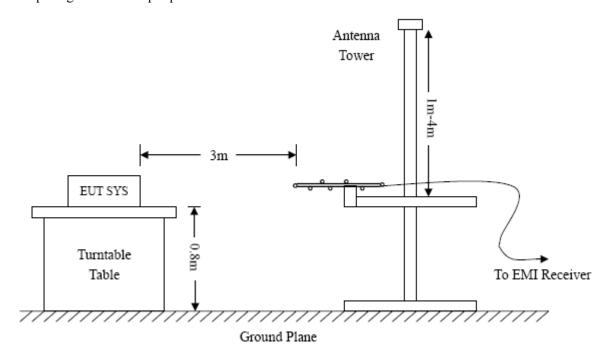
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

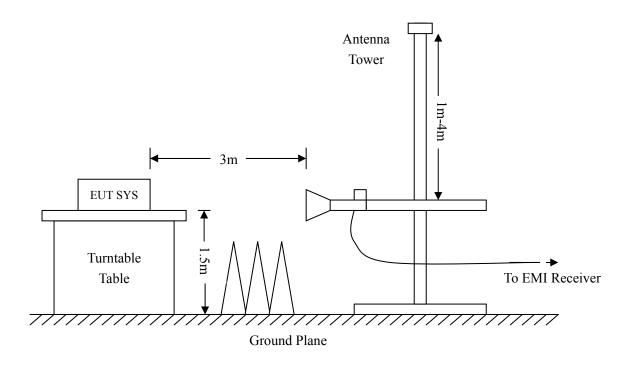
10.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



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Frequency :9kHz-30MHz Frequency :30MHz-1GHz Frequency :Above 1GHz

RBW=10KHz, RBW=120KHz, RBW=1MHz,

VBW=30KHz VBW=300KHz VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto Sweep time= Auto

Trace = max hold Trace = max hold Trace = max hold

Detector function = peak, QP Detector function = peak, AV

10.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit. The equation for margin calculation is as follows:

10.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

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10.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

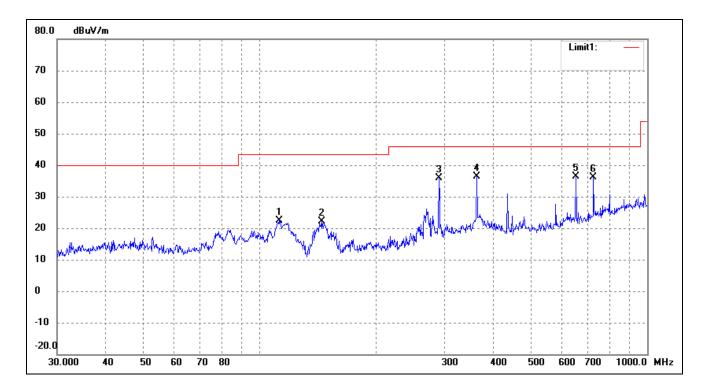
EUT: Crescent Mini PC Console Projector

Tested Model: FHPC-01

Operating Condition: Transmitting Low Channel (2402MHz)

Comment: DC 12.6V

Test Specification: Horizontal

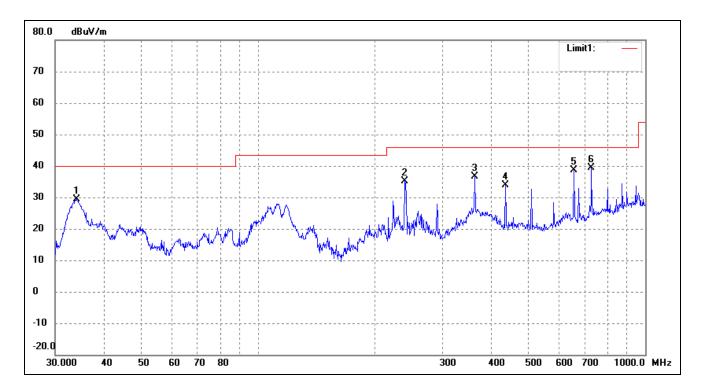


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	112.1305	35.09	-12.80	22.29	43.50	-21.21	267	100	peak
2	144.8418	36.96	-14.87	22.09	43.50	-21.41	100	100	peak
3	290.0172	45.52	-9.63	35.89	46.00	-10.11	325	100	peak
4	362.9845	44.21	-7.76	36.45	46.00	-9.55	112	100	peak
5	654.2318	39.92	-3.56	36.36	46.00	-9.64	315	100	peak
6	726.8052	37.89	-1.88	36.01	46.00	-9.99	221	100	peak

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Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	34.0365	41.04	-11.77	29.27	40.00	-10.73	226	100	peak
2	239.9874	46.21	-10.96	35.25	46.00	-10.75	94	100	peak
3	362.9845	44.38	-7.76	36.62	46.00	-9.38	82	100	peak
4	435.5898	41.41	-7.55	33.86	46.00	-12.14	135	100	peak
5	654.2318	42.12	-3.56	38.56	46.00	-7.44	329	100	peak
6	726.8052	41.24	-1.88	39.36	46.00	-6.64	300	100	peak

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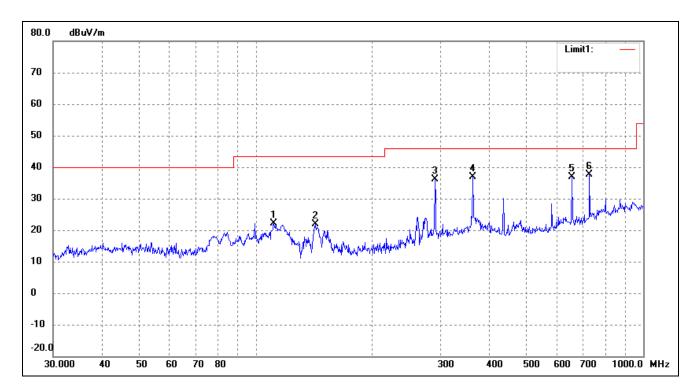




Operating Condition: Transmitting Middle Channel (2441MHz)

Comment: DC 12.6V

Test Specification: Horizontal

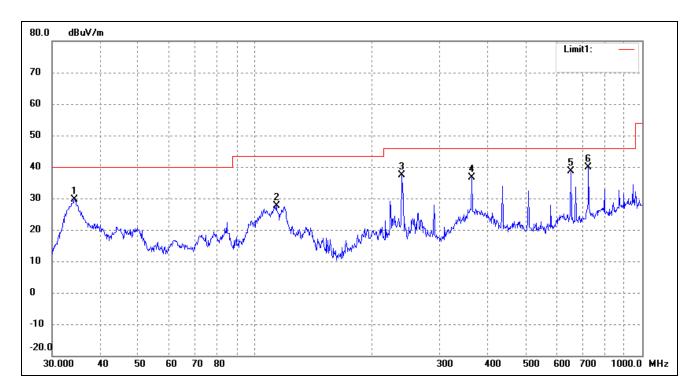


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	111.3468	34.83	-12.71	22.12	43.50	-21.38	214	100	peak
2	142.3244	36.68	-14.84	21.84	43.50	-21.66	100	100	peak
3	290.0172	45.76	-9.63	36.13	46.00	-9.87	135	100	peak
4	362.9845	44.61	-7.76	36.85	46.00	-9.15	105	100	peak
5	654.2318	40.37	-3.56	36.81	46.00	-9.19	262	100	peak
6	726.8052	39.51	-1.88	37.63	46.00	-8.37	103	100	peak

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Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	34.2760	41.45	-11.72	29.73	40.00	-10.27	59	100	peak
2	113.7143	40.69	-12.97	27.72	43.50	-15.78	194	100	peak
3	239.1473	48.29	-11.02	37.27	46.00	-8.73	96	100	peak
4	362.9845	44.38	-7.76	36.62	46.00	-9.38	313	100	peak
5	654.2318	42.23	-3.56	38.67	46.00	-7.33	178	100	peak
6	726.8052	41.85	-1.88	39.97	46.00	-6.03	319	100	peak

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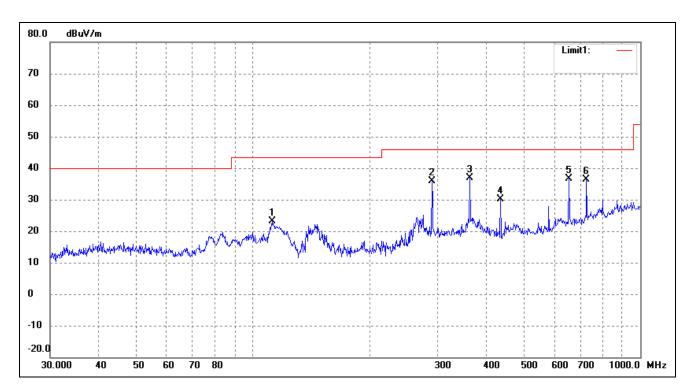




Operating Condition: Transmitting High Channel (2480MHz)

Comment: DC 12.6V

Test Specification: Horizontal

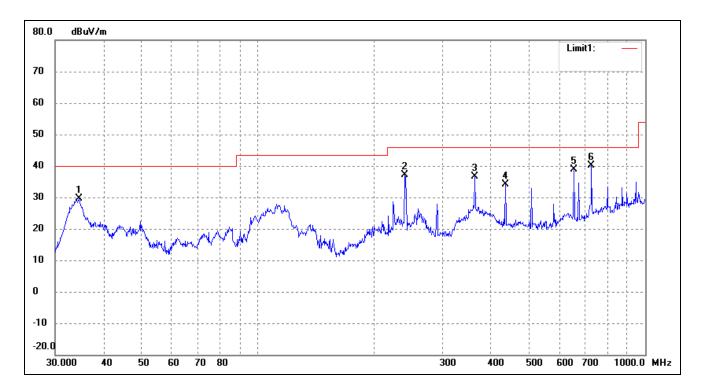


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	112.5244	35.97	-12.84	23.13	43.50	-20.37	53	100	peak
2	290.0172	45.59	-9.63	35.96	46.00	-10.04	164	100	peak
3	362.9845	44.67	-7.76	36.91	46.00	-9.09	78	100	peak
4	435.5898	37.76	-7.55	30.21	46.00	-15.79	100	100	peak
5	654.2318	40.26	-3.56	36.70	46.00	-9.30	167	100	peak
6	726.8052	38.19	-1.88	36.31	46.00	-9.69	189	100	peak

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Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	34.5173	41.31	-11.66	29.65	40.00	-10.35	41	100	peak
2	239.1473	48.04	-11.02	37.02	46.00	-8.98	256	100	peak
3	362.9845	44.27	-7.76	36.51	46.00	-9.49	54	100	peak
4	435.5898	41.57	-7.55	34.02	46.00	-11.98	102	100	peak
5	654.2318	42.44	-3.56	38.88	46.00	-7.12	185	100	peak
6	726.8052	42.03	-1.88	40.15	46.00	-5.85	219	100	peak

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Spurious Emissions Above 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Chann	el-2402MHz			
4804	68.35	-3.59	64.76	74	-9.24	Н	PK
4804	46.57	-3.59	42.98	54	-11.02	Н	AV
7206	58.19	-0.52	57.67	74	-16.33	Н	PK
7206	44.80	-0.52	44.28	54	-9.72	Н	AV
4804	60.38	-3.59	56.79	74	-17.21	V	PK
4804	51.42	-3.59	47.83	54	-6.17	V	AV
7206	54.97	-0.52	54.45	74	-19.55	V	PK
7206	48.26	-0.52	47.74	54	-6.26	V	AV
			Middle Chan	nel-2441MHz			
4884	59.76	-3.49	56.27	74	-17.73	Н	PK
4884	45.70	-3.49	42.21	54	-11.79	Н	AV
7326	54.72	-0.47	54.25	74	-19.75	Н	PK
7326	41.52	-0.47	41.05	54	-12.95	Н	AV
4884	54.17	-3.49	50.68	74	-23.32	V	PK
4884	46.73	-3.49	43.24	54	-10.76	V	AV
7326	56.47	-0.47	56.00	74	-18.00	V	PK
7326	48.28	-0.47	47.81	54	-6.19	V	AV
			High Chann	el-2480MHz			
4960	56.83	-3.41	53.42	74	-20.58	Н	PK
4960	44.64	-3.41	41.23	54	-12.77	Н	AV
7440	59.76	-0.42	59.34	74	-14.66	Н	PK
7440	45.24	-0.42	44.82	54	-9.18	Н	AV
4960	60.84	-3.41	57.43	74	-16.57	V	PK
4960	42.24	-3.41	38.83	54	-15.17	V	AV
7440	58.40	-0.42	57.98	74	-16.02	V	PK
7440	47.64	-0.42	47.22	54	-6.78	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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11. Out of Band Emissions

11.1 Standard Applicable

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

11.2 Test Procedure

According to ANSI C63.10-2013 section 7.8.6, the Band-edge measurements for RF conducted emissions test method as follows.

- a) Connect the EMI receiver or spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described in step e) (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).
- b) Set the EUT to the lowest frequency channel (for the hopping on test, the hopping sequence shall include the lowest frequency channel).
- c) Set the EUT to operate at maximum output power and 100% duty cycle, or equivalent "normal mode of operation" as specified in 6.10.3.
- d) If using the radiated method, then use the applicable procedure(s) of 6.4, 6.5, or 6.6, and orient the EUT and measurement antenna positions to produce the highest emission level.
- e) Perform the test as follows:
 - 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 that fall outside of the authorized band of operation.
 - 2) 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. Specific guidance is given in 4.1.5.2.
 - 3) Attenuation: Auto (at least 10 dB preferred).
 - 4) Sweep time: Coupled.
 - 5) Resolution bandwidth: 100 kHz.6) Video bandwidth: 300 kHz.
 - 7) Detector: Peak.8) Trace: Max hold.
- f) Allow the trace to stabilize. For the test with the hopping function turned ON, this can take several minutes to achieve a reasonable probability of intercepting any emissions due to oscillator overshoot.
- g) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak

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function to move the marker to the peak of the in-band emission.

- h) Repeat step c) through step e) for every applicable modulation.
- i) Set the EUT to the highest frequency channel (for the hopping on test, the hopping sequence shall include the highest frequency channel) and repeat step c) through step d).
- j) The band-edge measurement shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Restricted-band band-edge test method please refers to ANSI C63.10-2013 section 6.10.5. The emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated band-edge measurements.

According to ANSI C63.10-2013 section 7.8.8, Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers.

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

11.3 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

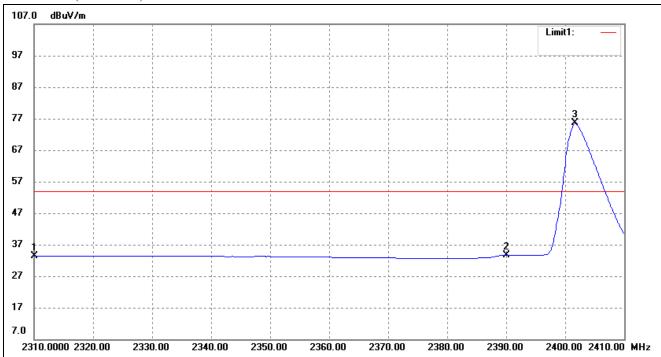
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11.4 Summary of Test Results/Plots

Bandedge (Radiated)

Lowest Bandedge

Horizontal (Worst case)



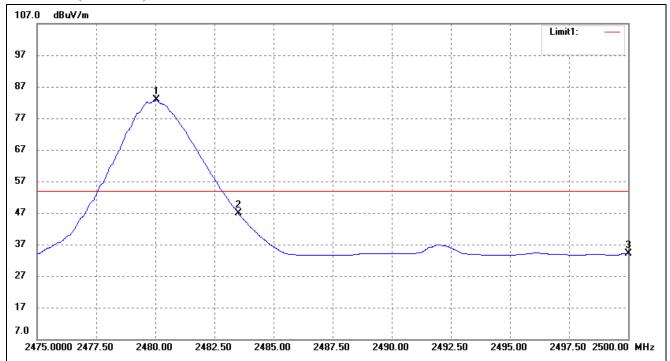
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	36.82	-3.35	33.47	54.00	-20.53	Average Detector
	2310.000	48.51	-3.35	45.16	74.00	-28.87	Peak Detector
2	2390.000	38.01	-4.29	33.72	54.00	-20.28	Average Detector
	2390.000	51.64	-4.29	47.35	74.00	-26.64	Peak Detector
3	2401.600	80.06	-4.42	75.64	/	/	Average Detector
	2402.200	95.71	-4.42	91.28	/	/	Peak Detector

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Highest Bandedge

Horizontal (Worst case)

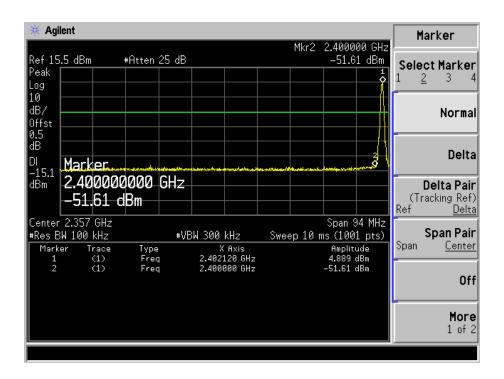


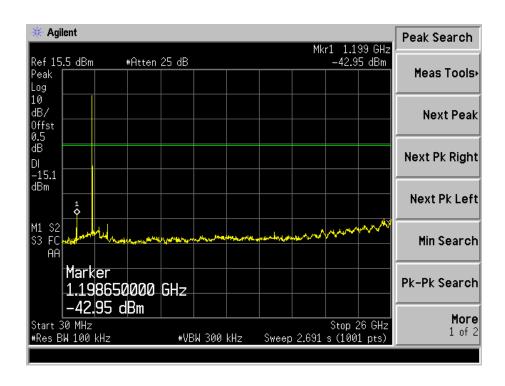
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.050	87.12	-4.36	82.75	/	/	Average Detector
	2480.000	97.92	-4.36	93.54	/	/	Peak Detector
2	2483.500	51.36	-4.36	47.01	54.00	-7.01	Average Detector
	2483.500	57.04	-4.36	52.66	74.00	-21.34	Peak Detector
3	2500.000	38.53	-4.34	34.20	54.00	-19.80	Average Detector
	2500.000	42.70	-4.34	38.38	74.00	-35.62	Peak Detector

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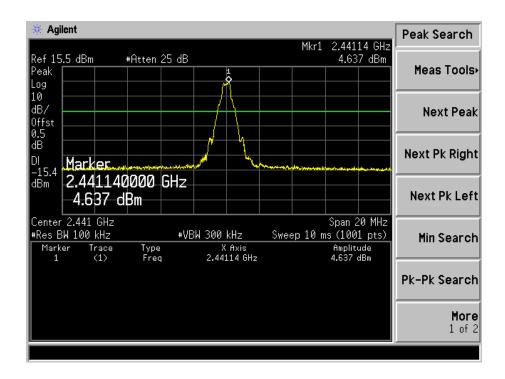
Worst mode DH1 Bandedge (Conducted) Lowest

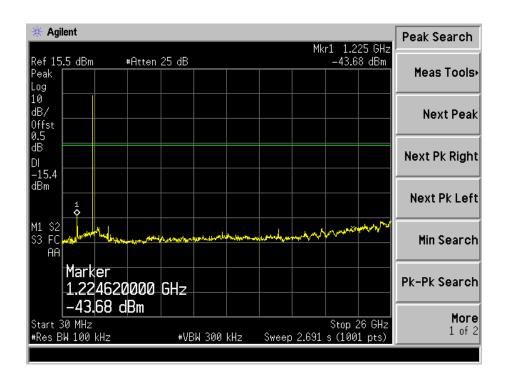






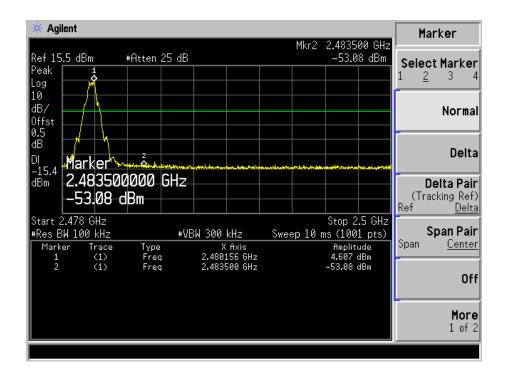
Middle Channel

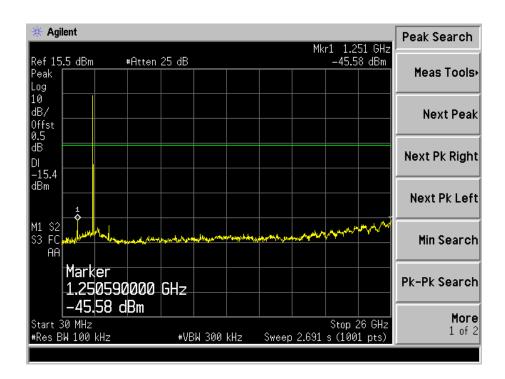






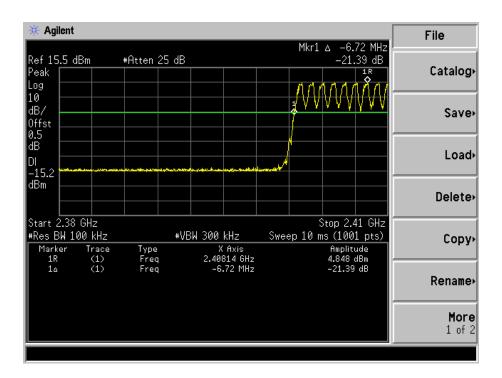
Highest



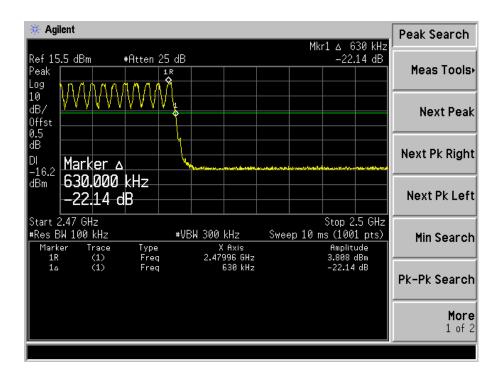




Bandedge with Hopping on: Lowest Bandedge



Highest Bandedge



12. Conducted Emissions

12.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

12.2 Basic Test Setup Block Diagram



12.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

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12.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Ouasi-Peak Adapter Mode	Normal

12.5 Summary of Test Results/Plots

According to the data in section 12.6, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for this device, with the *worst* margin reading of:

-5.48 dB at 0.1500 MHz in the Neutral mode, QP detector, 0.15-30MHz

12.6 Conducted Emissions Test Data

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Plot of Conducted Emissions Test Data

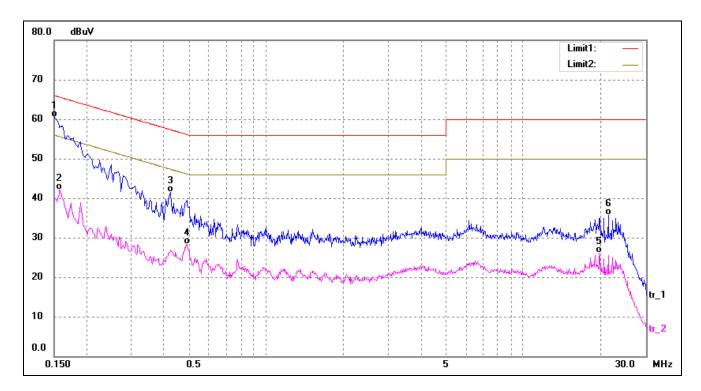
EUT: Crescent Mini PC Console Projector

Tested Model: FHPC-01

Operating Condition: BT Transmitting

Comment: DC 12.6V

Test Specification: Neutral

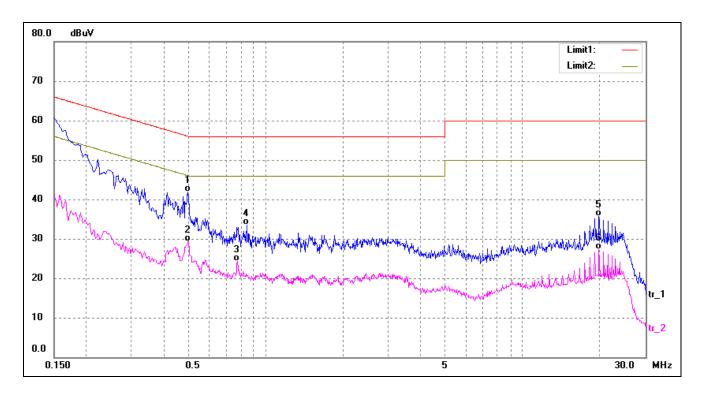


No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1500	50.67	9.85	60.52	66.00	-5.48	QP
2	0.1580	32.27	9.84	42.11	55.57	-13.46	AVG
3	0.4260	31.76	9.80	41.56	57.33	-15.77	QP
4	0.4940	18.56	9.80	28.36	46.10	-17.74	AVG
5	19.8300	16.52	9.68	26.20	50.00	-23.80	AVG
6	21.4180	26.04	9.68	35.72	60.00	-24.28	QP

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Test Specification: Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.4980	32.18	9.80	41.98	56.03	-14.05	QP
2	0.4980	19.57	9.80	29.37	46.03	-16.66	AVG
3	0.7780	14.57	9.78	24.35	46.00	-21.65	AVG
4	0.8460	23.68	9.77	33.45	56.00	-22.55	QP
5	19.8260	26.04	9.68	35.72	60.00	-24.28	QP
6	19.8260	17.65	9.68	27.33	50.00	-22.67	AVG

***** END OF REPORT *****

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