FCC Test Report

Report No.: AGC04925160801FE03

FCC ID : RQQHLT-D15KWM

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Smart watch

BRAND NAME : HYUNDAI

MODEL NAME : PULSE 2

CLIENT : Hyundai Corporation

DATE OF ISSUE : Sep. 06, 2016

STANDARD(S) FCC Part 15 Rules

TEST PROCEDURE(S) DA 00-705

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 06, 2016	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	Hyundai Corporation		
Address	25, Yulgok-ro 2-gil, Jongno-gu, Seoul 03143 Korea		
Manufacturer	Shenzhen KingWear Intelligent Technology Co.,Ltd		
Address The 21st floor, building C, Block No.9, Baoneng Hi-Tech Industrial I Qingxiang Road, Qinghu, Longhua district, Shenzhen, China			
Product Designation	Smart watch		
Brand Name	HYUNDAI		
Test Model	PULSE 2		
Date of test	Aug. 25, 2016~ Sep. 05, 2016		
Deviation	None		
Condition of Test Sample	Normal		
Report Template	AGCRT-US-BR/RF		

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Tested By	Vota Zhang	
	Dota Zhang(Zhang Jianfeng)	Sep. 06, 2016
Reviewed By	Bore xie	
	Bart Xie(Xie Xiaobin)	Sep. 06, 2016
Approved By	Solya Zhong	
	Solger Zhang(Zhang Hongyi) Authorized Officer	Sep. 06, 2016

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "Smart watch" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz		
RF Output Power	2.36dBm(Max)		
Bluetooth Version	V 3.0		
Modulation	GFSK, π /4-DQPSK, 8DPSK		
Number of channels	79(For BR/EDR)		
Hardware Version	KW18-V1.1		
Software Version	KW18_UI2_V1_A_20160616		
Antenna Designation	Integrated Antenna		
Antenna Gain	0.8dBi		
Power Supply	DC3.7V by Battery		

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402MHZ	
	1	2403MHZ	
	÷	:	
	38	2440 MHZ	
2400~2483.5MHZ	39	2441 MHZ	
	40	2442 MHZ	
	:	:	
	77	2479 MHZ	
	78	2480 MHZ	

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations) are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.

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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID**: RQQHLT-D15KWM filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in FCC DA 00-705. Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel GFSK		
2	Middle channel GFSK		
3	High channel GFSK		
4	Low channel π /4-DQPSK		
5	Middle channel π /4-DQPSK		
6	High channel π /4-DQPSK		
7	Low channel 8DPSK		
8	Middle channel 8DPSK		
9	High channel 8DPSK		
10	Normal Hopping		

Note:

^{1.} All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report, if no other cases.

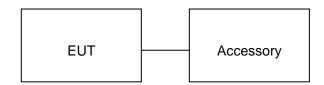
^{2.} For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configuration:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart watch	PULSE 2	RQQHLT-D15KWM	EUT
2	Adapter	U223C0A050100	DC 5.0V/1000mA	Accessory
3	Battery	ZWD502128	DC 3.7V/340mAh	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Spurious Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation Compliant	

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6. TEST FACILITY

Site Dongguan Precise Testing Service Co., Ltd.	
Location Building D,Baoding Technology Park,Guangming Road2,Dongcheng Distribution Dongguan, Guangdong, China,	
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013.

ALL TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Radiated Emission Test Site							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration		
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 3, 2016	July 2, 2017		
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 3, 2016	July 2, 2017		
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 3, 2016	July 2, 2017		
RF Cable	SCHWARZBECK	AK9515E	96221	July 3, 2016	July 2, 2017		
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 5, 2016	June 4, 2017		
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A		
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 5, 2016	June 4, 2017		
Spectrum analyzer	Agilent	E4407B	MY46185649	June 5, 2016	June 4, 2017		
Power Probe	R&S	NRP-Z23	100323	July 24,2016	July 23,2017		
RF attenuator	N/A	RFA20db	68	N/A	N/A		

FOR RADIATED EMISSION TEST (1GHZ ABOVE)

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 3, 2016	July 2, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 10, 2016	July 9, 2017
Spectrum Analyzer	Agilent	E4411B	MY4511453	July 3, 2016	July 2, 2017
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 6, 2016	July 5, 2017
RF Cable	SCHWARZBECK	AK9515H	96220	July 7, 2016	July 6, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 5, 2016	June 4, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A

000WX31025 July 7, 2016

000WX31026 July 7, 2016

96222

PTS-002

July 3, 2016

June 5,2016

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July 6, 2017

July 6, 2017

July 2, 2017

June 4,2017

Horn Ant (18G-40GHz) Schwarzbec		ck	BBHA 9170	91	170-181	J	une 5, 2	016	June 4, 2017
Power Probe R&S			NRP-Z23	1	00323	J	uly 24,2	016	July 23,2017
RF attenuator	N/A		RFA20db		68		N/A		N/A
Conducted Emission Test Site									
Name of Manufacturer N		Mode	el Number	Serial N	lumber		ast bration	Due	e Calibration
EMI Test Receiver	Rohde & Schwarz		ESCI	101	417	July	3, 2016	J	uly 2, 2017
Artificial Mains	Nordo	-	2 16B	00014/3	(21025	luky	7 2016		uly 6 2017

L2-16B

L2-16B

AK9515E

843

Narda

Narda

SCHWARZBECK

CHENGYU

Network Artificial Mains

Network (AUX)

RF Cable

Shielded Room

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW.
- 4. Record the maximum power from the Spectrum Analyzer.

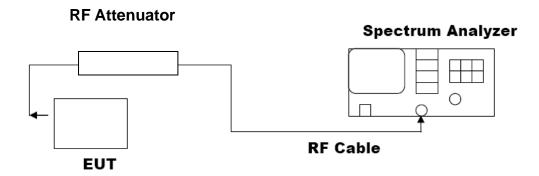
For average power test:

- 1. Connect EUT RF output port to power probe through an RF attenuator.
- 2. Connect the power probe to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.
- 5. The maximum peak power shall be less 125mW (21dBm).

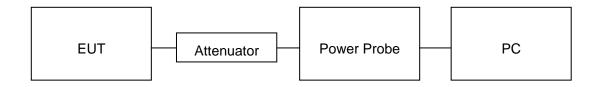
Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



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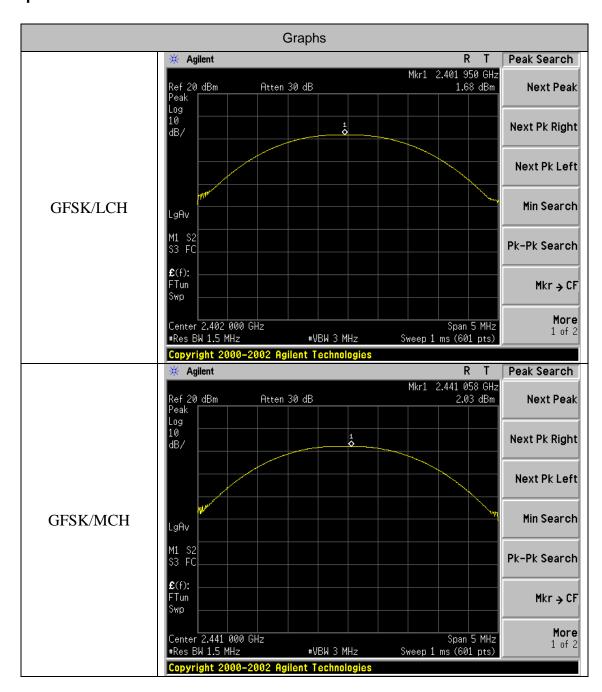
7.3. LIMITS AND MEASUREMENT RESULT

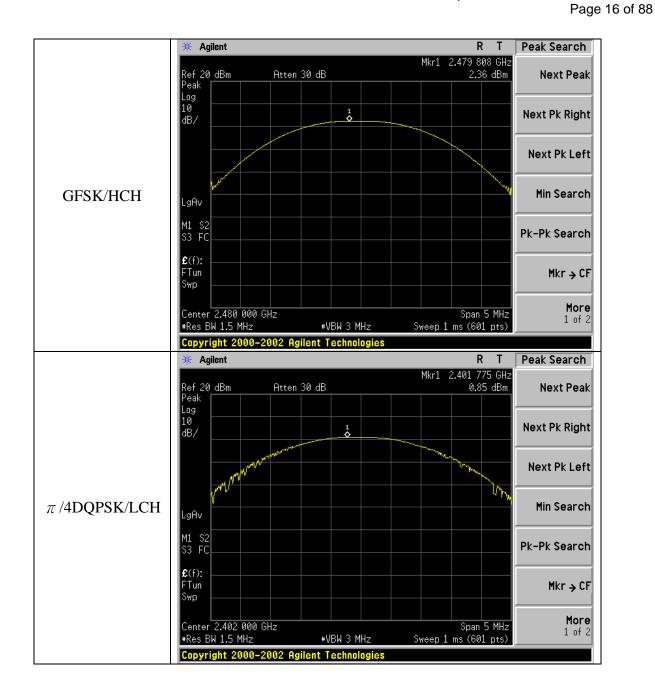
	PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION					
Frequency (GHz) Average Power (dBm) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail						
2.402	-0.24	1.68	21	Pass		
2.441	0.08	2.03	21	Pass		
2.480	0.43	2.36	21	Pass		

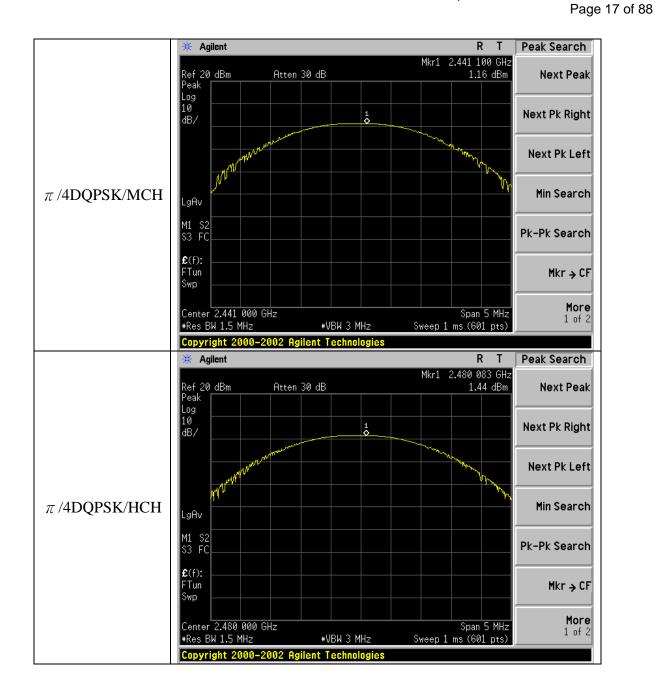
PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION					
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.402	-1.03	0.85	21	Pass	
2.441	-0.81	1.16	21	Pass	
2.480	-0.57	1.44	21	Pass	

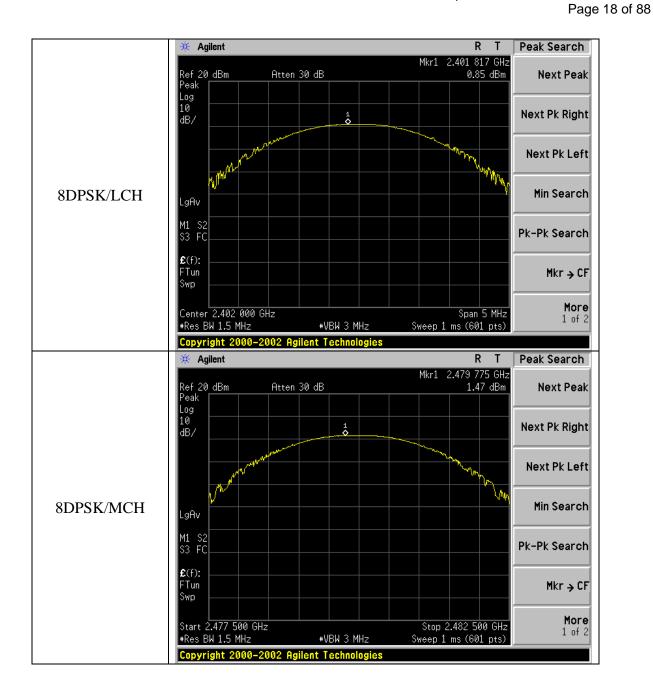
PEAK OUTPUT POWER MEASUREMENT RESULT						
	FOR 8-DPSK MODULATION					
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	-1.18	0.85	21	Pass		
2.441	-0.51	1.47	21	Pass		
2.480	-0.39	1.48	21	Pass		

Test Graph

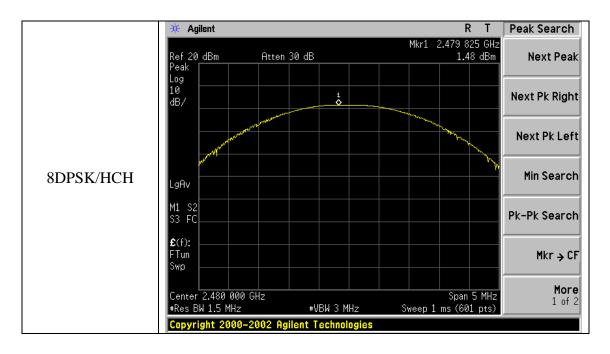








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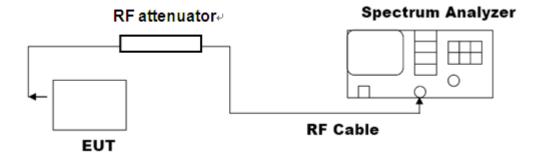
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8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

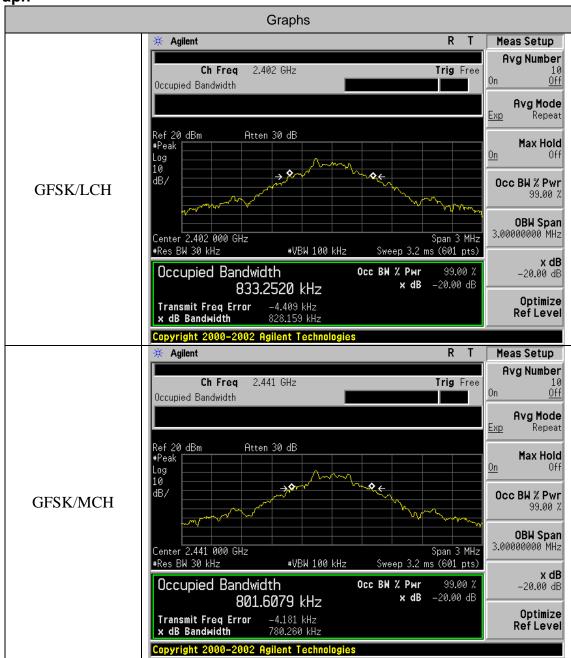
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

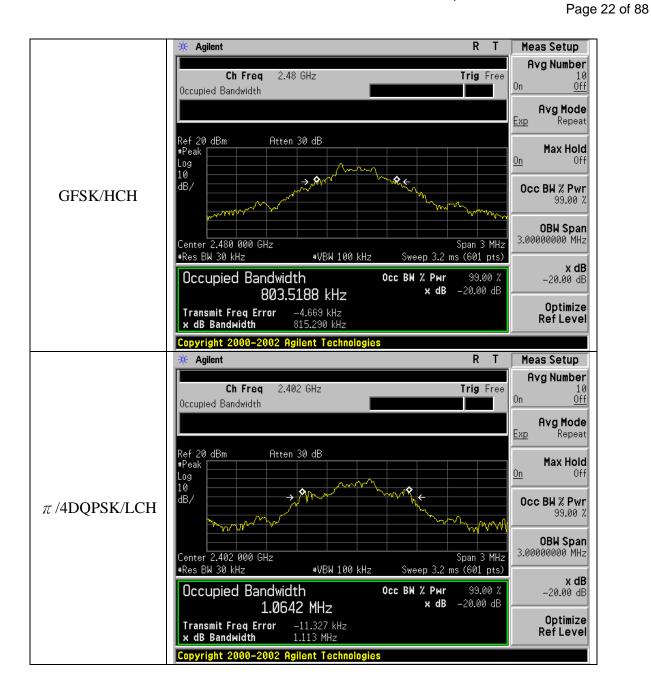


8.3. LIMITS AND MEASUREMENT RESULTS

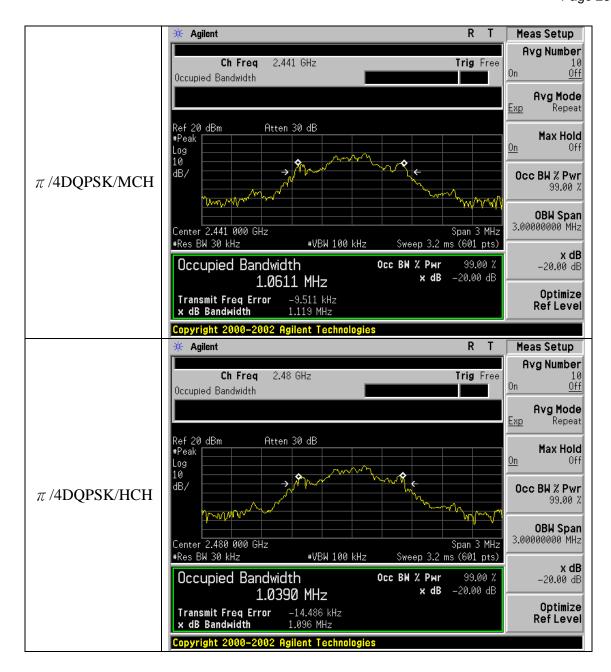
Mode	Channel.	EBW [MHz]	OBW [MHz]	Verdict
GFSK	LCH	0.8282	0.8333	PASS
GFSK	MCH	0.7803	0.8016	PASS
GFSK	HCH	0.8153	0.8035	PASS
π/4DQPSK	LCH	1.113	1.0642	PASS
π/4DQPSK	MCH	1.119	1.0611	PASS
π/4DQPSK	HCH	1.096	1.0390	PASS
8DPSK	LCH	1.126	1.0694	PASS
8DPSK	MCH	1.154	1.0737	PASS
8DPSK	HCH	1.165	1.0829	PASS

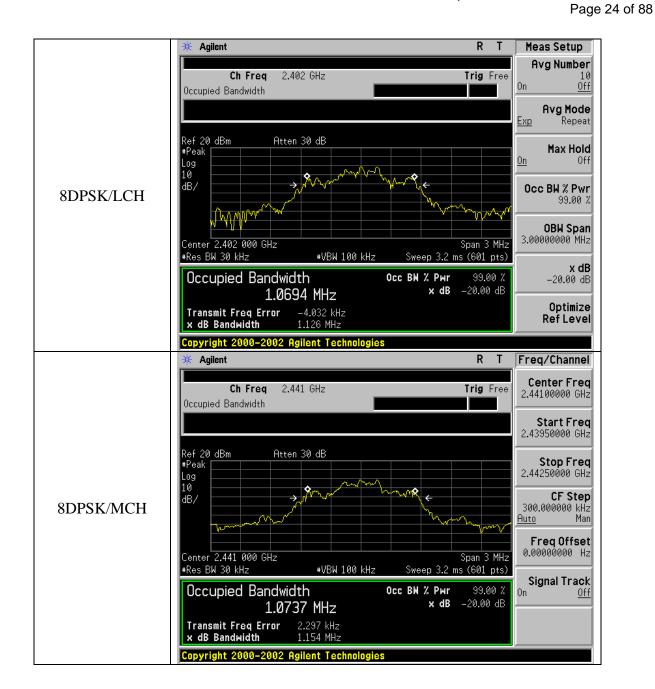
Test Graph



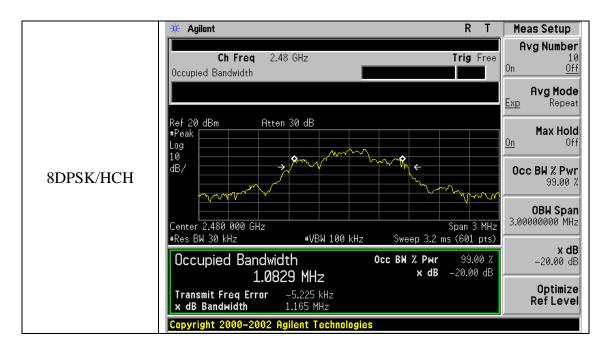


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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

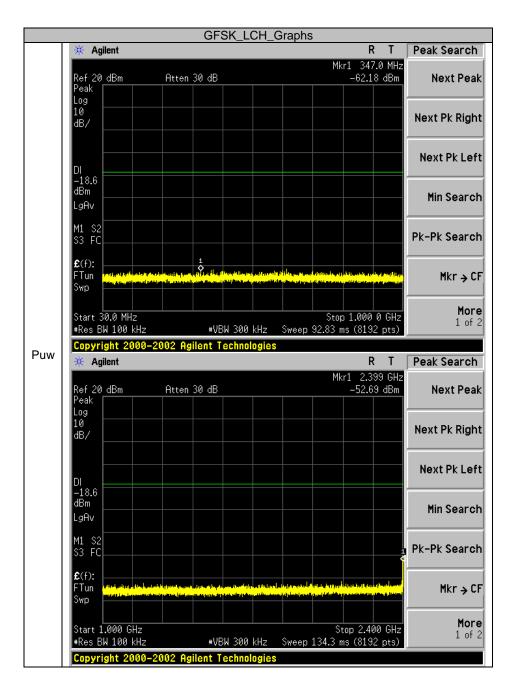
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

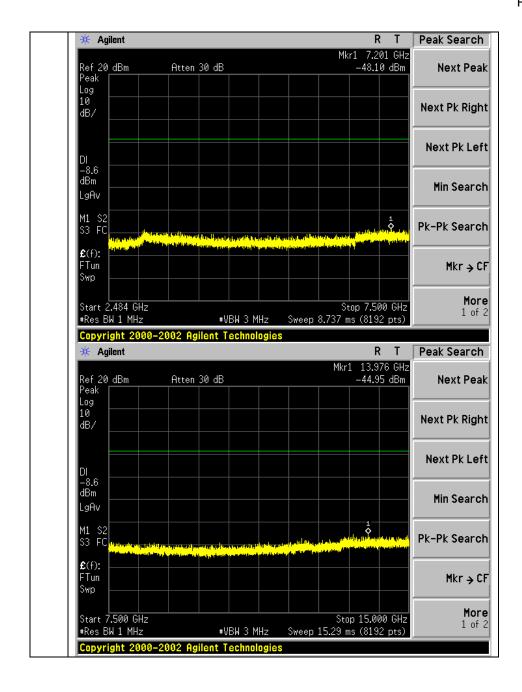
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT				
A	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit			
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, the radio frequency	Channel			
power that is produce by the intentional radiator				
shall be at least 20 dB below that in 100KHz				
bandwidth within the band that contains the highest				
level of the desired power.	At least -20dBc than the limit	DACC		
In addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS		
restricted bands, as defined in §15.205(a), must also				
comply with the radiated emission limits specified				
in§15.209(a))				

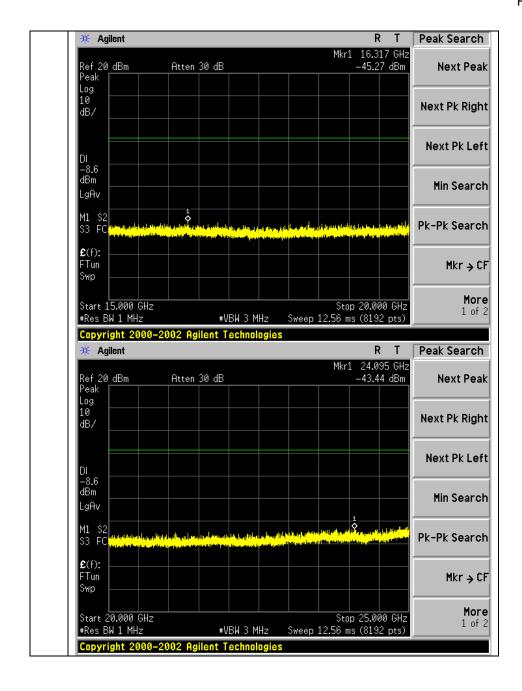
Test Graph

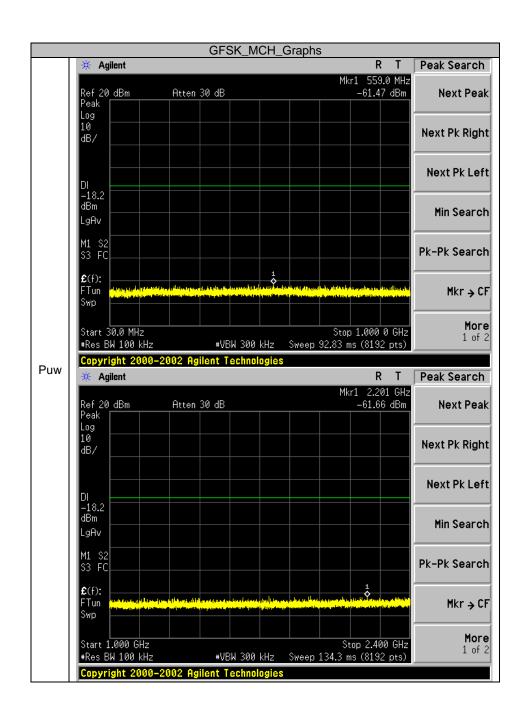


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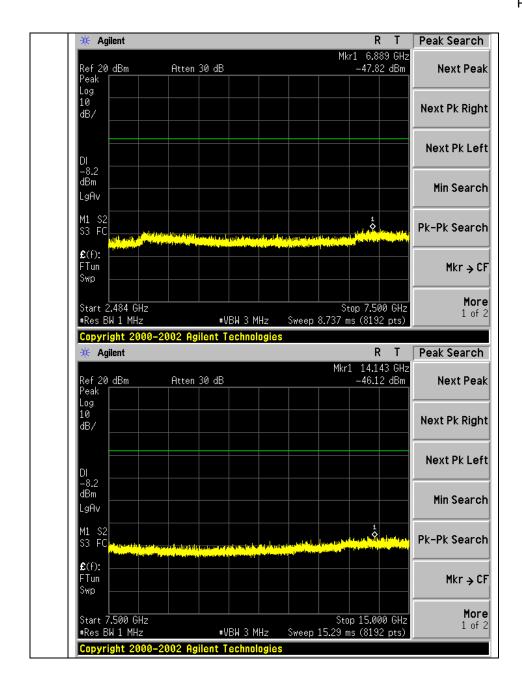


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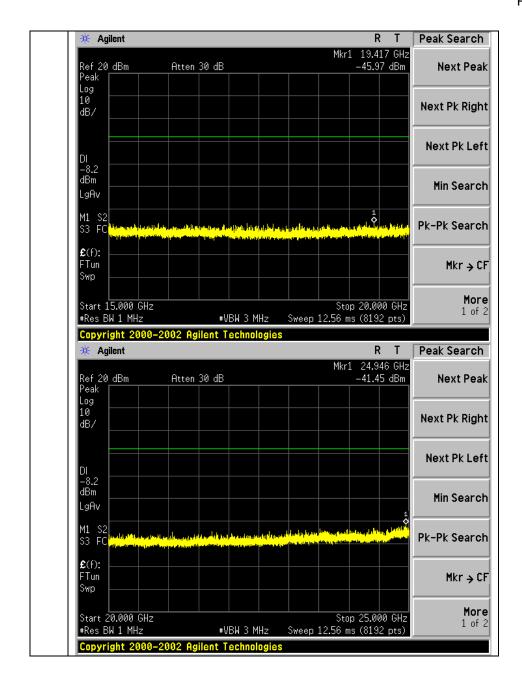


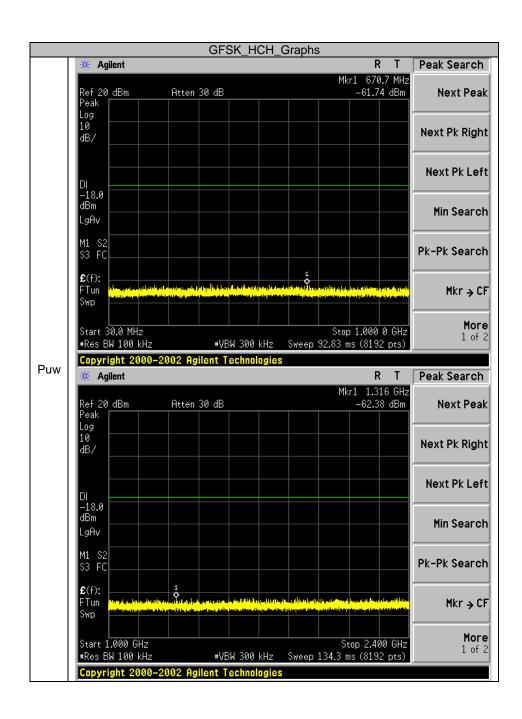


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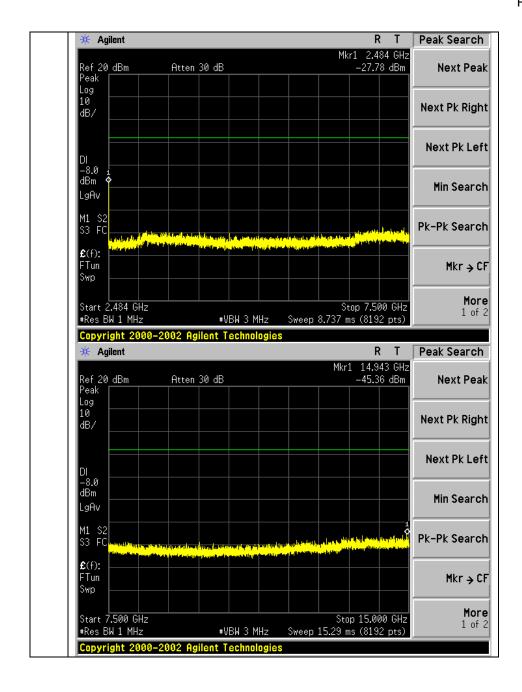


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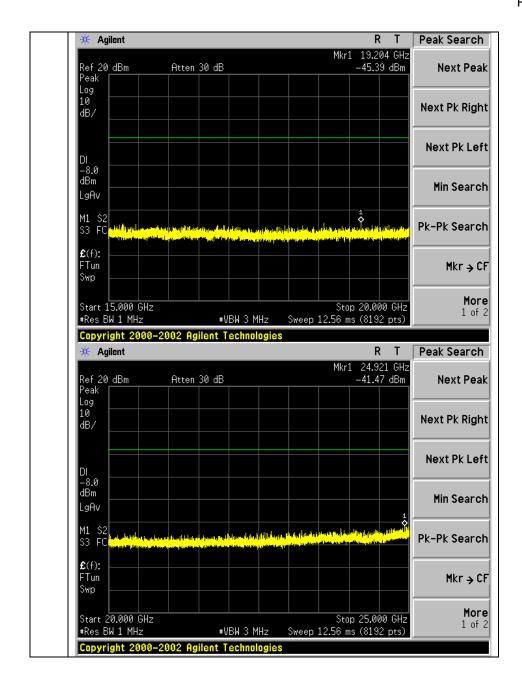


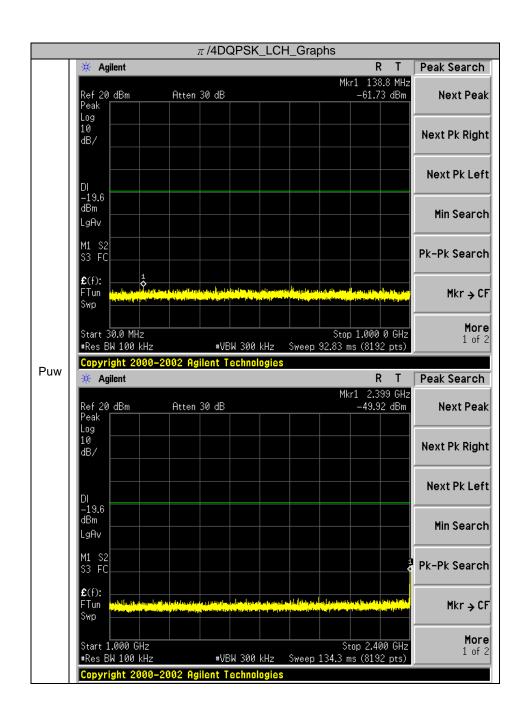


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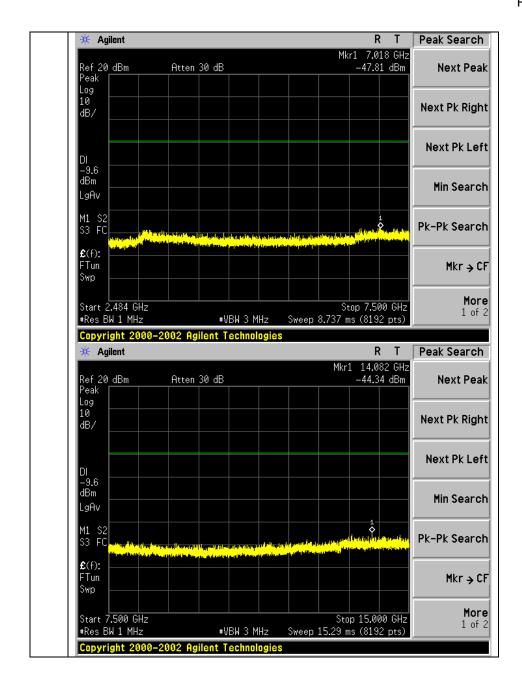


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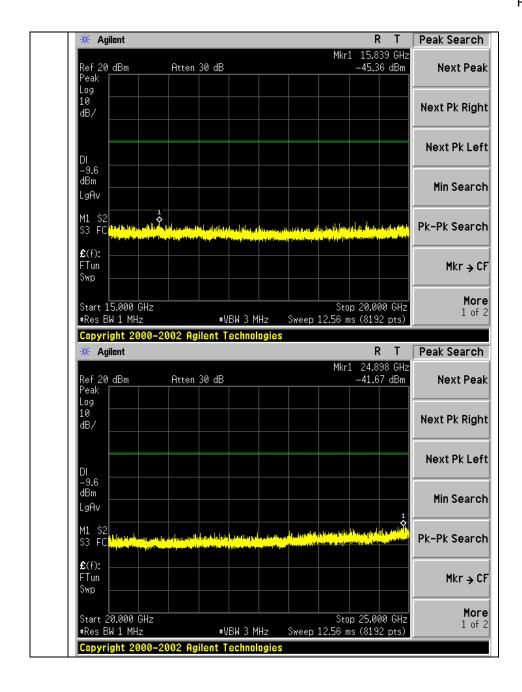


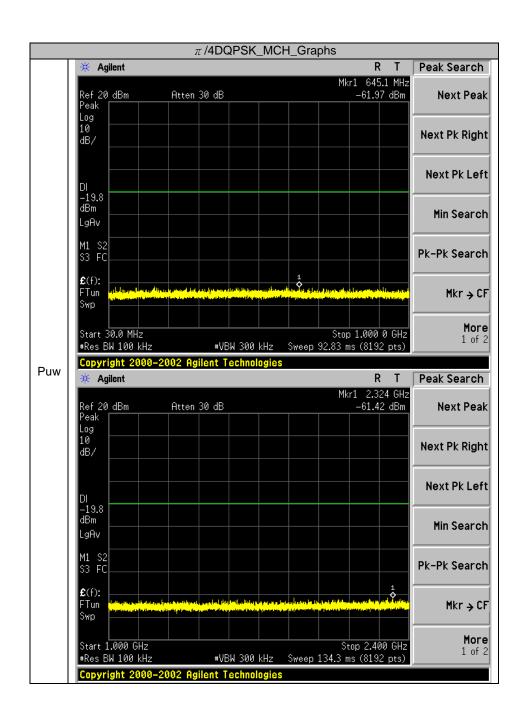


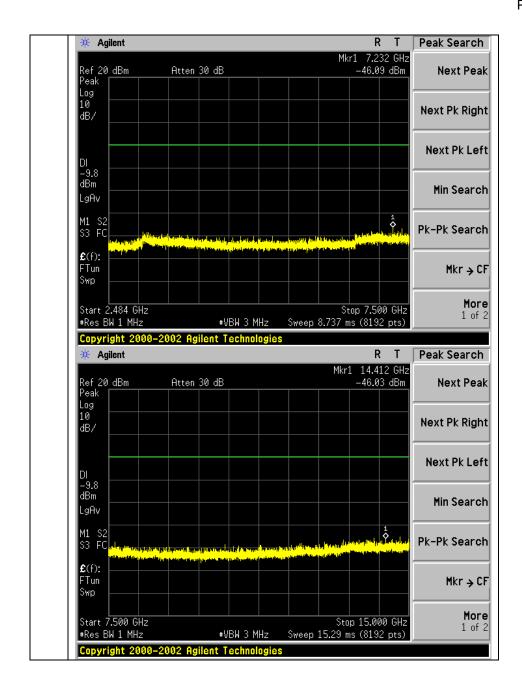
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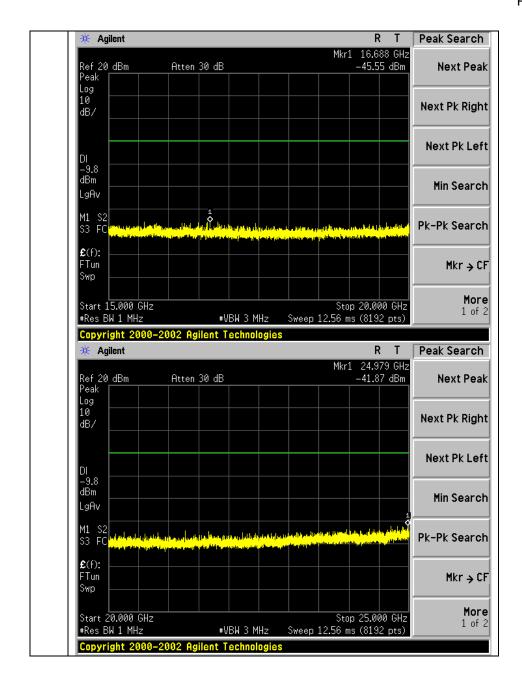
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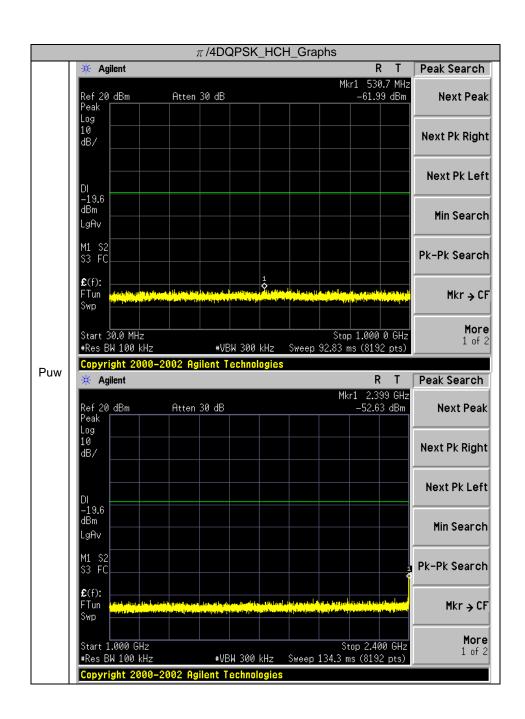


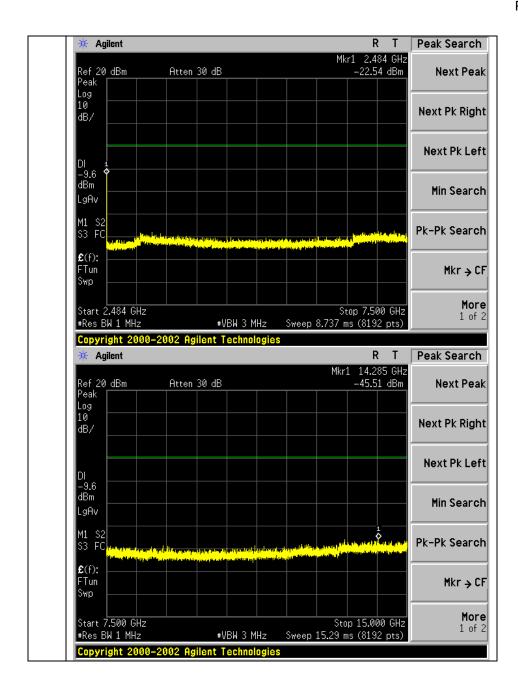




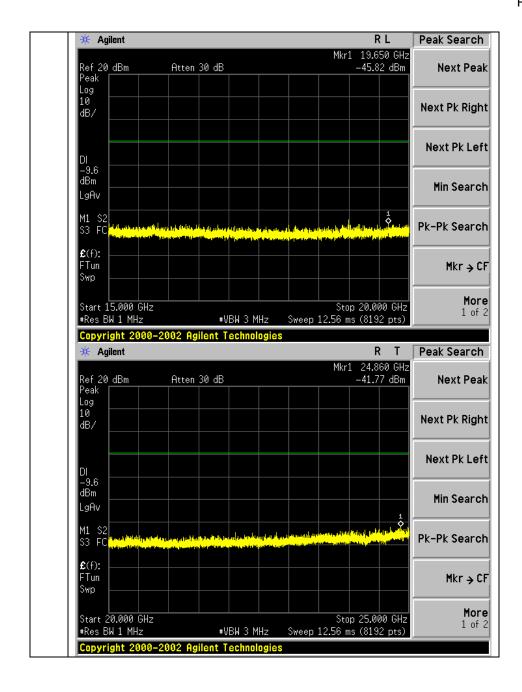
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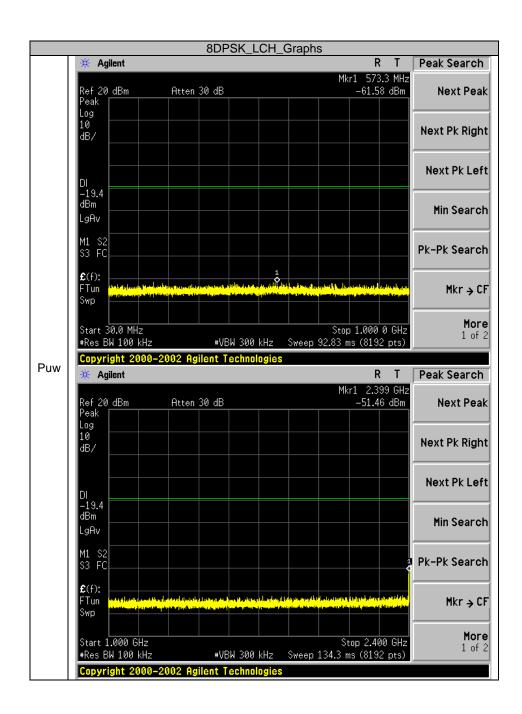


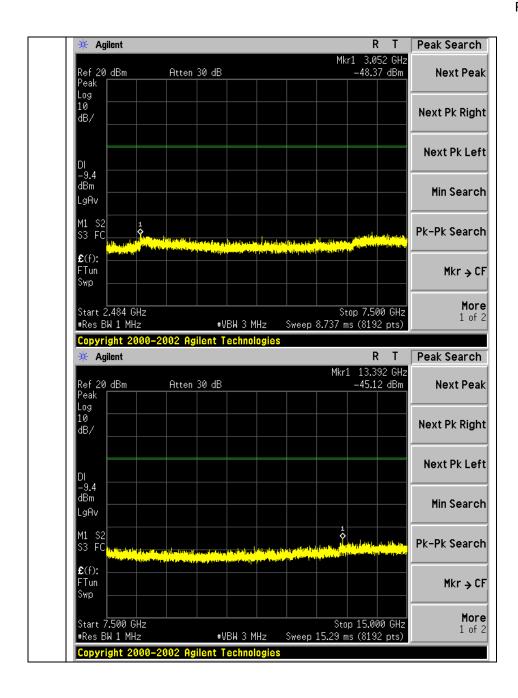




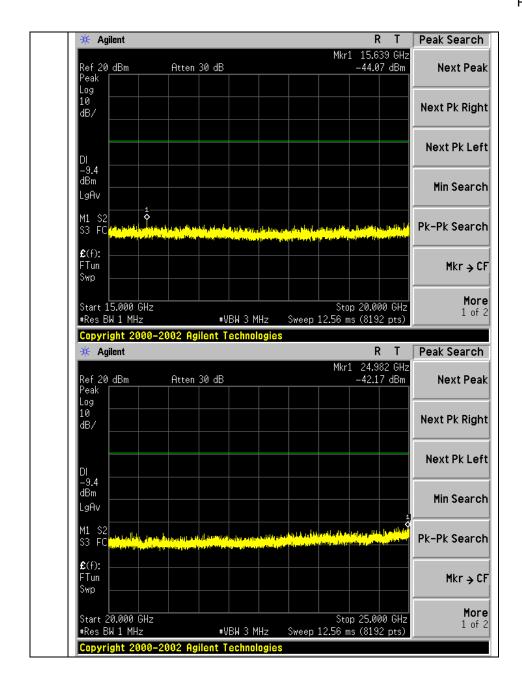
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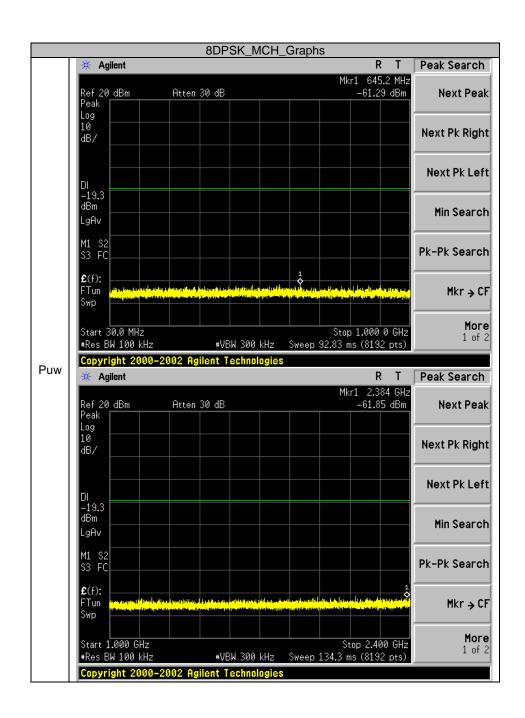


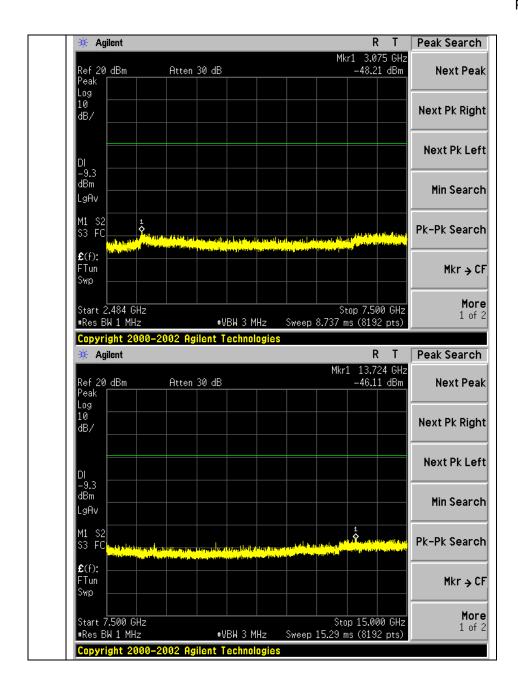


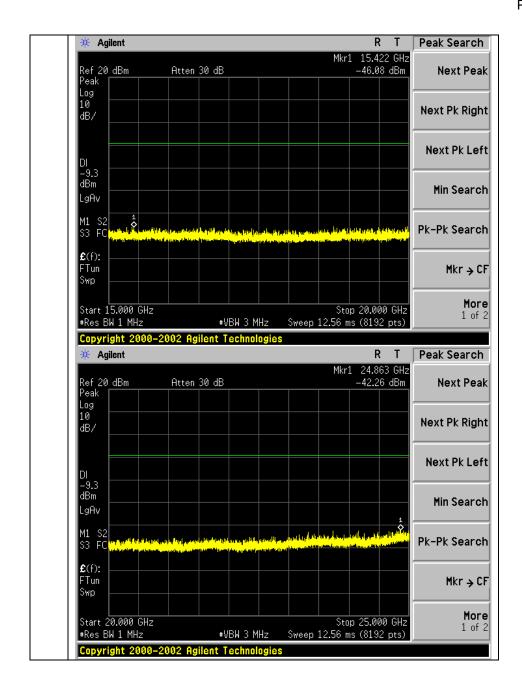


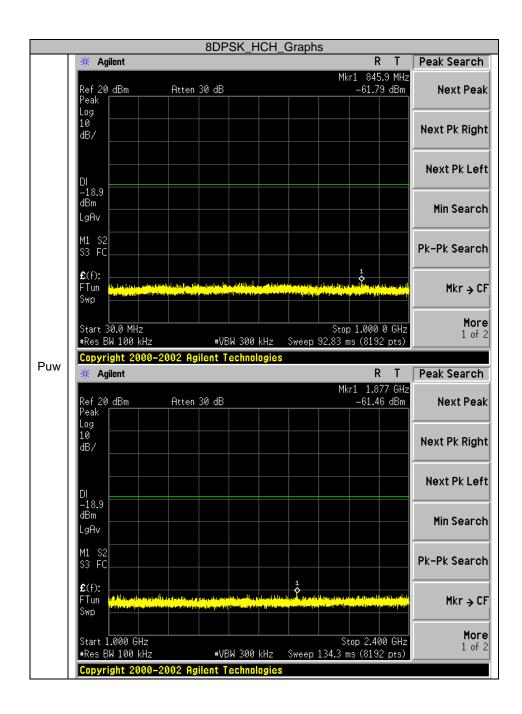
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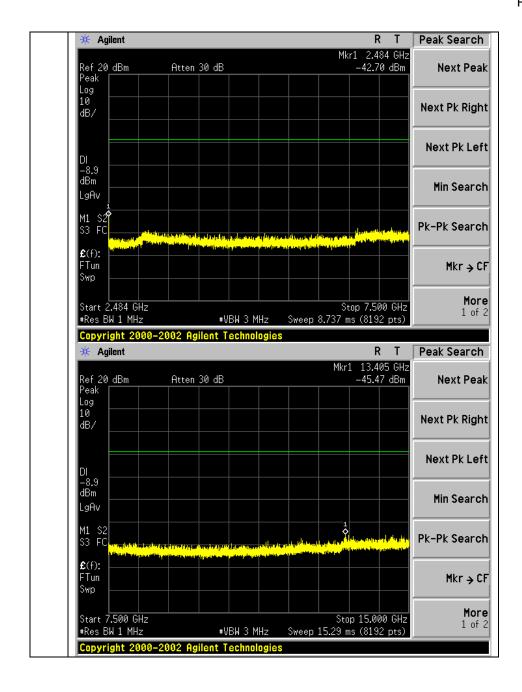




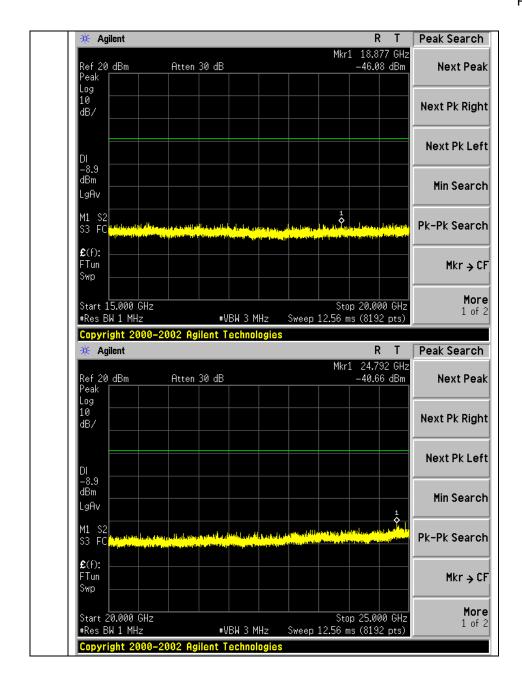




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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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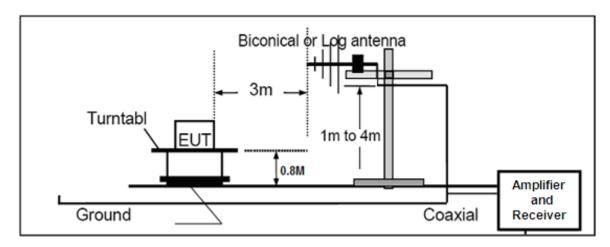
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

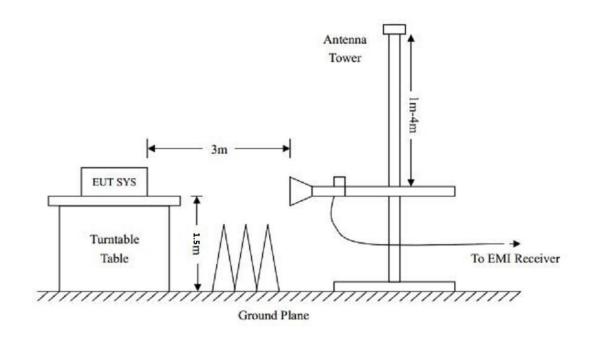
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

10.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



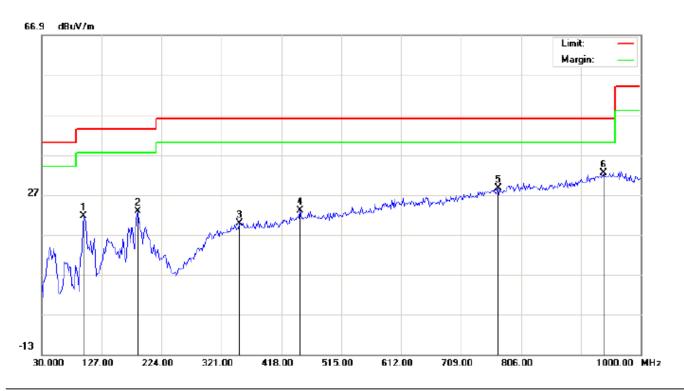
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10.3. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ



Site: site #1 Limit: FCC Class B 3M Radiation

EUT: Smart watch M/N: PULSE 2 Mode: Low channel TX

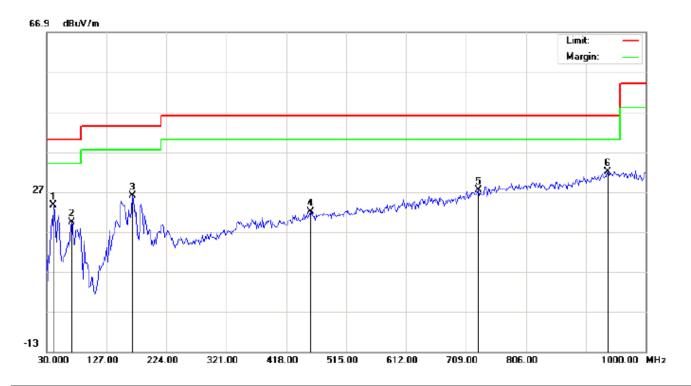
Note:

Polarization: *Horizontal* Temperature: 22.7 Power: AC 120V/60Hz Humidity: 53.6 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		97.9000	13.23	8.38	21.61	43.50	-21.89	peak			
2		185.2000	11.46	11.31	22.77	43.50	-20.73	peak			
3		350.1000	1.07	18.74	19.81	46.00	-26.19	peak			
4		448.7167	2.41	20.55	22.96	46.00	-23.04	peak			
5		768.8167	1.67	26.89	28.56	46.00	-17.44	peak			
6	*	940.1833	2.65	29.73	32.38	46.00	-13.62	peak			-

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Site: site #1 Polarization: Vertical Temperature: 22.7
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 53.6 %

EUT: Smart watch Distance: 3m M/N: PULSE 2

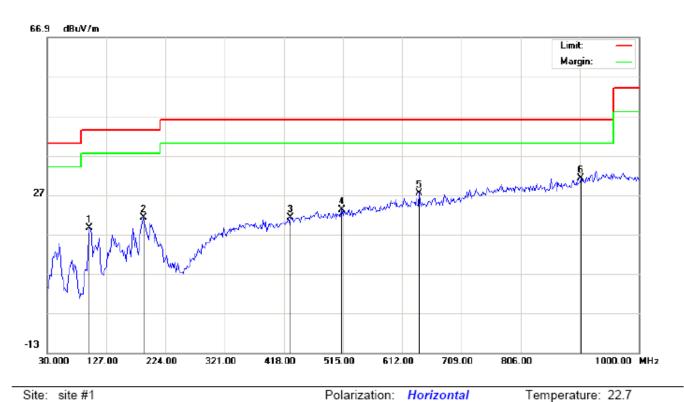
Mode: Low channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		41.3167	14.85	8.81	23.66	40.00	-16.34	peak			
2		70.4167	15.22	4.16	19.38	40.00	-20.62	peak			
3		169.0333	11.16	14.76	25.92	43.50	-17.58	peak			
4		456.8000	1.37	20.66	22.03	46.00	-23.97	peak			
5		728.4000	1.46	26.01	27.47	46.00	-18.53	peak		·	-
6	*	938.5667	2.38	29.68	32.06	46.00	-13.94	peak			

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Humidity: 53.6 %



Limit: FCC Class B 3M Radiation

EUT: Smart watch M/N: PULSE 2

Mode: Middle channel TX

Note:

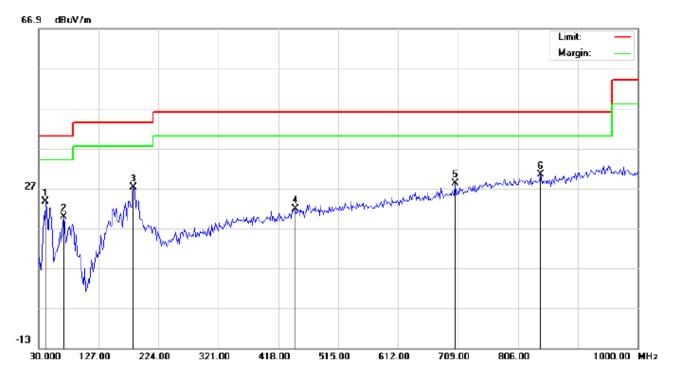
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		99.5167	8.63	10.00	18.63	43.50	-24.87	peak			
2		188.4333	9.76	11.46	21.22	43.50	-22.28	peak			
3		429.3167	1.22	19.96	21.18	46.00	-24.82	peak			
4		513.3832	1.71	21.49	23.20	46.00	-22.80	peak			
5		639.4833	3.49	23.82	27.31	46.00	-18.69	peak			
6	*	904.6167	2.43	28.74	31.17	46.00	-14.83	peak			

Power:

Distance: 3m

AC 120V/60Hz

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Site: site #1 Limit: FCC Class B 3M Radiation

EUT: Smart watch M/N: PULSE 2

Mode: Middle channel TX

Note:

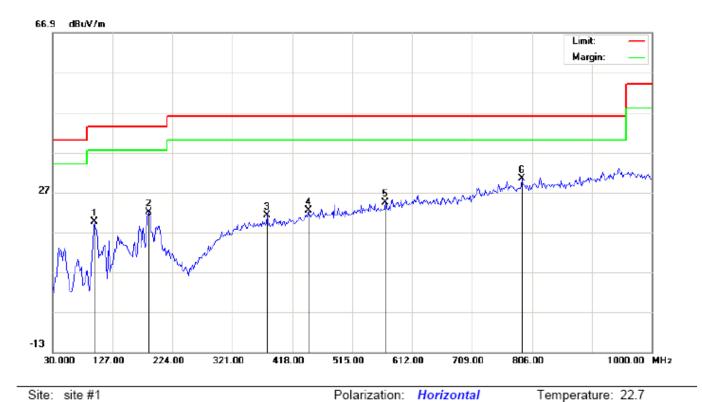
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		41.3167	14.74	8.81	23.55	40.00	-16.45	peak			
2		70.4167	15.61	4.16	19.77	40.00	-20.23	peak			
3		183.5833	14.05	13.16	27.21	43.50	-16.29	peak			
4		445.4833	1.39	20.45	21.84	46.00	-24.16	peak			
5		704.1500	2.89	25.31	28.20	46.00	-17.80	peak			
6	*	843.1833	3.05	27.31	30.36	46.00	-15.64	peak			

Polarization: Vertical Temperature: 22.7
Power: AC 120V/60Hz Humidity: 53.6 %

Distance: 3m

Humidity: 53.6 %

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Site: site #1 Limit: FCC Class B 3M Radiation

EUT: Smart watch M/N: PULSE 2

Mode: High channel TX

Note:

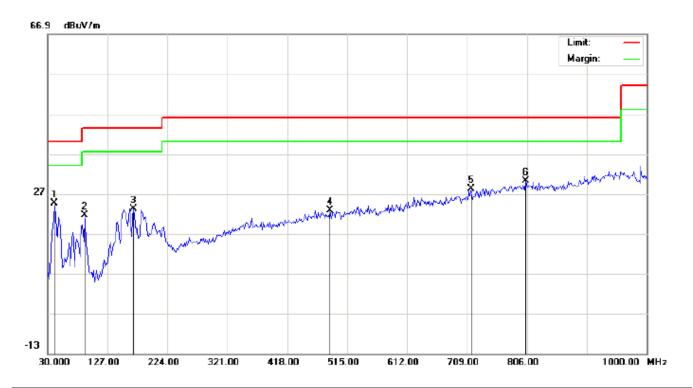
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		97.9000	11.13	8.38	19.51	43.50	-23.99	peak			
2		185.2000	10.60	11.31	21.91	43.50	-21.59	peak			
3		377.5833	2.32	18.92	21.24	46.00	-24.76	peak			
4		443.8667	2.09	20.40	22.49	46.00	-23.51	peak			
5		568.3500	1.47	22.94	24.41	46.00	-21.59	peak			
6	*	789.8333	3.27	27.18	30.45	46.00	-15.55	peak			

Power:

Distance: 3m

AC 120V/60Hz

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Site: site #1 Limit: FCC Class B 3M Radiation

EUT: Smart watch

M/N: PULSE 2 Mode: High channel TX

Note:

Polarization: Vertical Temperature: 22.7
Power: AC 120V/60Hz Humidity: 53.6 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	41.3167	15.82	8.81	24.63	40.00	-15.37	peak			
2		89.8167	16.21	5.31	21.52	43.50	-21.98	peak			
3		169.0333	8.49	14.76	23.25	43.50	-20.25	peak			
4		487.5167	1.76	21.00	22.76	46.00	-23.24	peak			
5		715.4667	2.50	25.64	28.14	46.00	-17.86	peak			
6		804.3832	2.79	27.32	30.11	46.00	-15.89	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (ABOVE 1GHZ)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Common
			Low Channel (2402	2 MHz)			
4804.264	61.49	-3.62	57.87	74	-16.13	Pk	Vertical
4804.272	40.18	-3.62	36.56	54	-17.44	AV	Vertical
7206.138	62.23	-0.9	61.33	74	-12.67	pk	Vertical
7206.156	45.71	-0.9	44.81	54	-9.19	AV	Vertical
4803.959	62.22	-3.64	58.58	74	-15.42	Pk	Horizontal
4803.964	41.69	-3.64	38.05	54	-15.95	AV	Horizontal
			Mid Channel (2441	MHz)			
4882.128	64.78	-3.65	61.13	74	-12.87	Pk	Vertical
4882.094	41.36	-3.65	37.71	54	-16.29	AV	Vertical
7323.228	61.02	-0.82	60.2	74	-13.8	Pk	Vertical
7323.220	45.45	-0.82	44.63	54	-9.37	AV	Vertical
4882.096	68.39	-3.68	64.71	74	-9.29	Pk	Horizontal
4882.171	45.66	-3.68	41.98	54	-12.02	AV	Horizontal
			High Channel (2480) MHz)			
4960.260	61.82	-3.59	58.23	74	-15.77	pk	Vertical
4960.325	46.37	-3.59	42.78	54	-11.22	AV	Vertical
4960.190	61.23	-3.59	57.64	74	-16.36	pk	Horizontal
4960.157	45.62	-3.59	42.03	54	-11.97	AV	Horizontal

Note:

- 1) 30MHz~25GHz:(Scan with GFSK, π /4-DQPSK,8DPSK, the worst casw is GFSK Mode)
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission Leve - Limit

RESULT: PASS

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11. BAND EDGE EMISSION

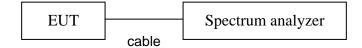
11.1. MEASUREMENT PROCEDURE

- 1. The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100kHz. The video bandwidth is set to 300kHz.
- 2. Transmitter set to the normal hopping mode at 2.4 and 2.4835 GHz.

11.2. TEST SET-UP

Radiated same as 10.2

Conducted set up



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11.3. Radiated TEST RESULT

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
			GF	SK			
2399.9	61.46	-12.99	48.47	74	-25.53	peak	Vertical
2399.9	52.57	-12.99	39.58	54	-14.42	AVG	Vertical
2399.9	71.03	-12.99	58.04	74	-15.96	peak	Horizontal
2399.9	55.82	-12.99	42.83	54	-11.17	AVG	Horizontal
2483.6	74.64	-12.78	61.86	74	-12.14	peak	Vertical
2483.6	52.37	-12.78	39.59	54	-14.41	AVG	Vertical
2483.6	75.29	-12.78	62.51	74	-11.49	peak	Horizontal
2483.6	57.63	-12.78	44.85	54	-9.15	AVG	Horizontal
			π/4-D	QPSK			
2399.9	72.33	-12.99	59.34	74	-14.66	peak	Vertical
2399.9	51.78	-12.99	38.79	54	-15.21	AVG	Vertical
2399.9	72.57	-12.99	59.58	74	-14.42	peak	Horizontal
2399.9	53.18	-12.99	40.19	54	-13.81	AVG	Horizontal
2483.6	72.24	-12.78	59.46	74	-14.54	peak	Vertical
2483.6	56.39	-12.78	43.61	54	-10.39	AVG	Vertical
2483.6	71.11	-12.78	58.33	74	-15.67	peak	Horizontal
2483.6	55.78	-12.78	43	54	-11	AVG	Horizontal
			8DF	PSK			
2399.9	73.39	-12.99	60.4	74	-13.6	peak	Vertical
2399.9	52.27	-12.99	39.28	54	-14.72	AVG	Vertical
2399.9	71.64	-12.99	58.65	74	-15.35	peak	Horizontal
2399.9	52.27	-12.99	39.28	54	-14.72	AVG	Horizontal
2483.6	72.47	-12.78	59.69	74	-14.31	peak	Vertical
2483.6	53.61	-12.78	40.83	54	-13.17	AVG	Vertical
2483.6	72.29	-12.78	59.51	74	-14.49	peak	Horizontal
2483.6	54.55	-12.78	41.77	54	-12.23	AVG	Horizontal

RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

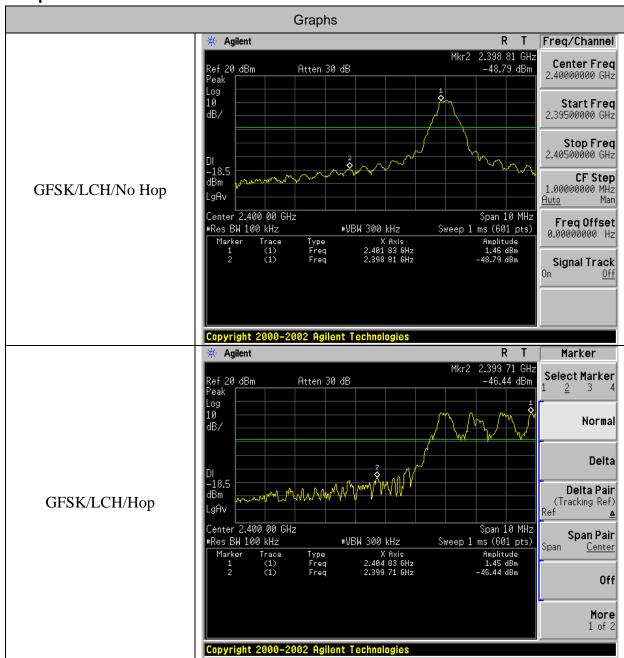
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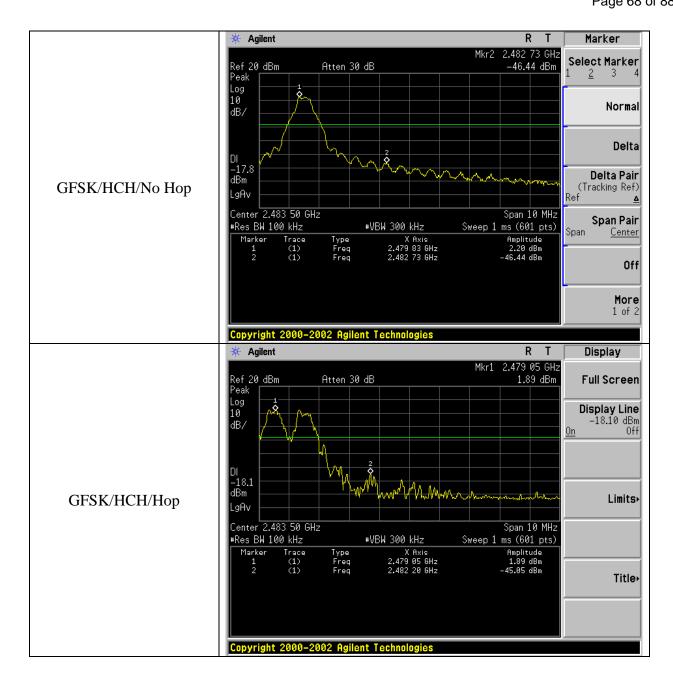
11.4 Conducted TEST RESULT

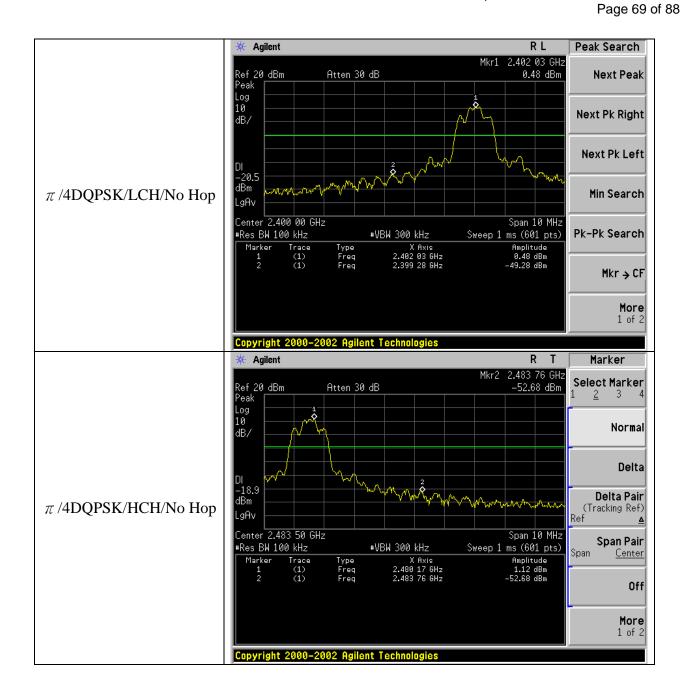
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBm]	Verdict
GFSK	LCH	2402	Off	-48.79	PASS
GFSK	LCH	2402	On	-46.44	PASS
CECK	LICII	2400	Off	-46.44	PASS
GFSK	HCH	2480	On	-45.05	PASS
π/4DQPSK	LCH	2402	Off	-49.28	PASS
π/4DQPSK	HCH	2480	Off	-52.68	PASS
8DPSK	LCH	2402	Off	-48.97	PASS
8DPSK	HCH	2480	Off	-53.59	PASS

Note: All modes were tested, only the worst case record in the report.

Test Graph









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12. NUMBER OF HOPPING FREQUENCY

12.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=RBW.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

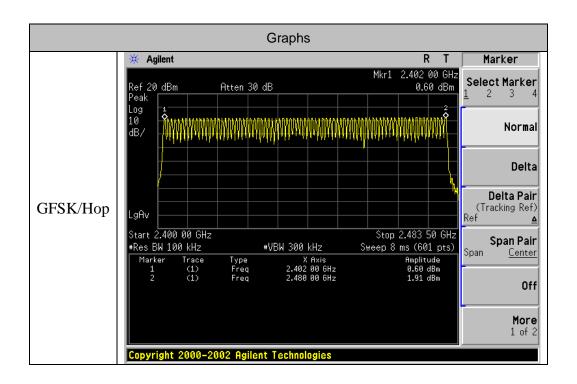
The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Нор	79	PASS

Note: All modes were tested, only the worst case record in the report.

Test Graph



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13. TIME OF OCCUPANCY (DWELL TIME)

13.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

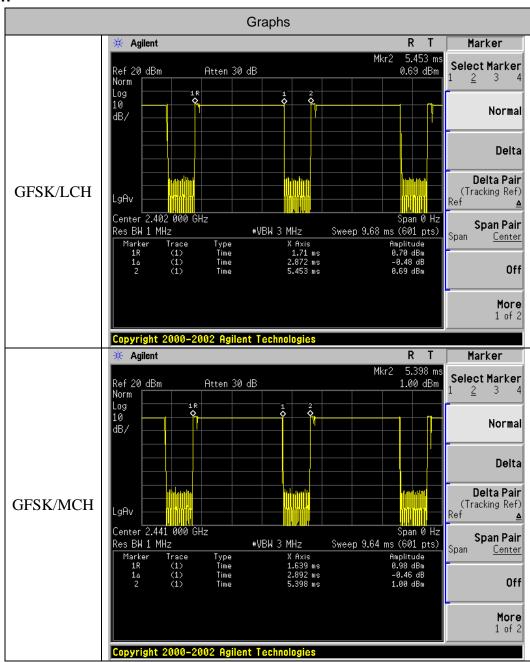
13.4. LIMITS AND MEASUREMENT RESULT

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

- The duration for dwell time calculation:0.4[s]*hopping number=0.4[s]*79[ch]=31.6[s*ch];
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is 1600/6=266.67 [ch*hop/s]
- The hops per second on one channel: 266.67 [ch*hops/s]/79 [ch]=3.38 [hop/s];
- The total hops for all channels within the dwell time calculation duration:3.38 [hop/s]*31.6[s*ch]=106.67 [hop*ch];
- The dwell time for all channels hopping: 106.67 [hop*ch]*Burst Width [ms/hop/ch].

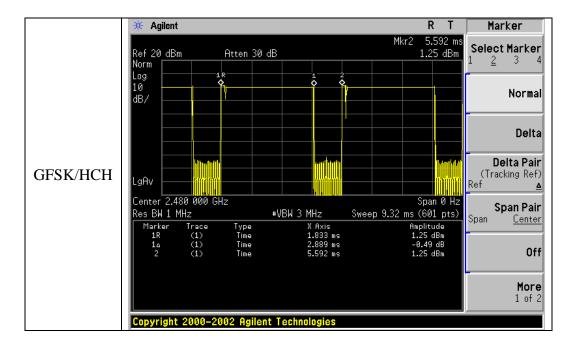
Mode	Channel.	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Verdict	Limit (ms)
GFSK	LCH	2.872	106.67	306.36	PASS	400
GFSK	MCH	2.892	106.67	308.49	PASS	400
GFSK	HCH	2.889	106.67	308.17	PASS	400

Test Graph



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14. FREQUENCY SEPARATION

14.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

14.3. MEASUREMENT EQUIPMENT USED

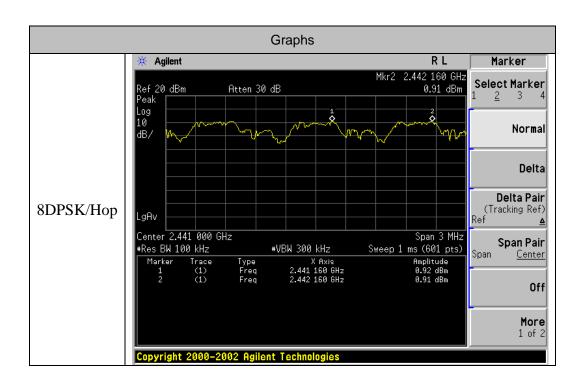
The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
8DPSK	Нор	1.00	PASS

Note: All modes were tested, only the worst case record in the report.

Test Graph



15. FCC LINE CONDUCTED EMISSION TEST

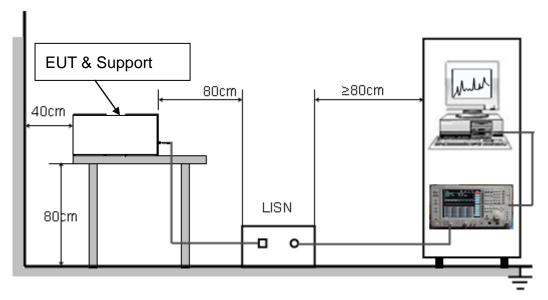
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Fraguency	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter which received 120V/60Hzpower by a LISN...
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

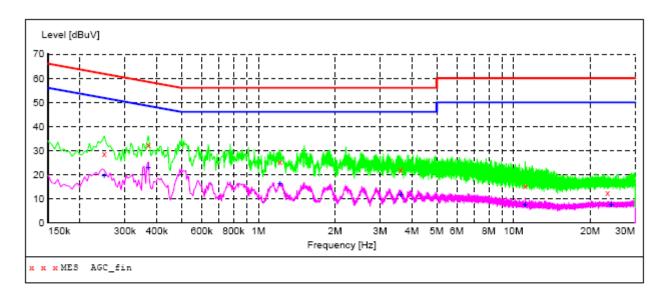
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



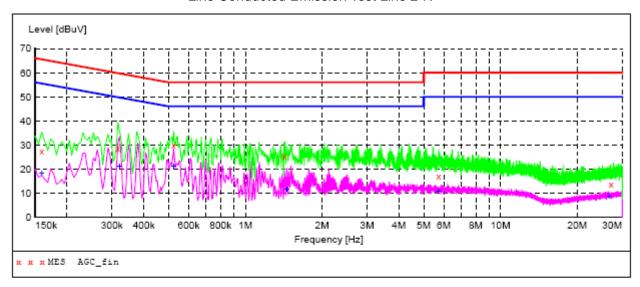
MEASUREMENT RESULT: "AGC fin"

2016/8/25 11: Frequency		Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				DIAIL
0.249000 0.370500 1.216500 3.610500 11.112000 23.397000	28.60 32.40 25.20 21.90 15.40 12.40	10.3 10.3 10.4 10.5 10.8 12.0	62 59 56 56 60	33.2 26.1 30.8 34.1 44.6 47.6	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO	ON ON ON ON

MEASUREMENT RESULT: "AGC fin2"

2016/8/25 11:	10							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ	AUX
MHz	dBuV	dB	dBuV	dB				STATE
0.249000 0.370500 1.216500 3.619500 11.112000 24.180000	19.50 22.90 16.10 11.60 7.30 7.50	10.3 10.3 10.4 10.5 10.8 11.9	52 49 46 46 50 50		AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO	ON ON ON ON ON

Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "AGC_fin"

2016	/8/25	4.4 - 0.4	
ZU 10	10125	11:01	

2010/0/	Z5 II:() 1							
Freq	uency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
	MHz	dBuV	dB	dBuV	dB				
0.1	59000	27.50	10.3	66	38.0	QP	N	FLO	ON
0.3	16500	28.60	10.3	60	31.2	QP	N	FLO	ON
0.5	23500	29.80	10.3	56	26.2	QP	N	FLO	ON
1.4	19000	25.10	10.4	56	30.9	QP	N	FLO	ON
5.7	21000	17.10	10.6	60	42.9	QP	N	FLO	ON
27.1	18500	13.80	11.8	60	46.2	QP	N	FLO	ON

MEASUREMENT RESULT: "AGC fin2"

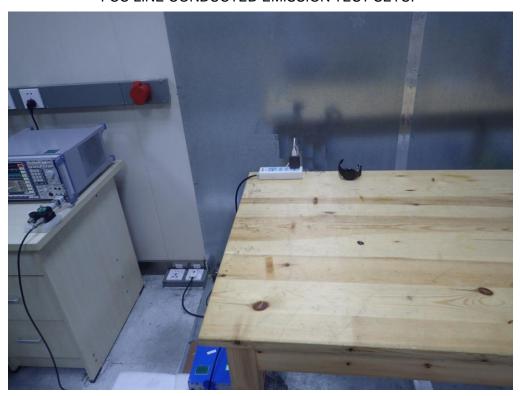
2016/8/25 11:01

y Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
z dBuV	dB	dBuV	dB				DIRLL
0 18.40	10.3	56	37.1	AV	N	FLO	ON
0 21.20	10.3	50	28.5	AV	N	FLO	ON
0 21.30	10.3	46	24.7	AV	N	FLO	ON
0 11.50	10.4	46	34.5	AV	N	FLO	ON
0 10.60	10.6	50	39.4	AV	N	FLO	ON
0 8.70	11.9	50	41.3	AV	N	FLO	ON
	z dBuV 0 18.40 0 21.20 0 21.30 0 11.50 0 10.60	z dBuV dB 0 18.40 10.3 0 21.20 10.3 0 21.30 10.3 0 11.50 10.4 0 10.60 10.6	z dBuV dB dBuV 0 18.40 10.3 56 0 21.20 10.3 50 0 21.30 10.3 46 0 11.50 10.4 46 0 10.60 10.6 50	z dBuV dB dBuV dB 0 18.40 10.3 56 37.1 0 21.20 10.3 50 28.5 0 21.30 10.3 46 24.7 0 11.50 10.4 46 34.5 0 10.60 10.6 50 39.4	z dBuV dB dBuV dB 0 18.40 10.3 56 37.1 AV 0 21.20 10.3 50 28.5 AV 0 21.30 10.3 46 24.7 AV 0 11.50 10.4 46 34.5 AV 0 10.60 10.6 50 39.4 AV	z dBuV dB dBuV dB 0 18.40 10.3 56 37.1 AV N 0 21.20 10.3 50 28.5 AV N 0 21.30 10.3 46 24.7 AV N 0 11.50 10.4 46 34.5 AV N 0 10.60 10.6 50 39.4 AV N	z dBuV dB dBuV dB 0 18.40 10.3 56 37.1 AV N FLO 0 21.20 10.3 50 28.5 AV N FLO 0 21.30 10.3 46 24.7 AV N FLO 0 11.50 10.4 46 34.5 AV N FLO 0 10.60 10.6 50 39.4 AV N FLO

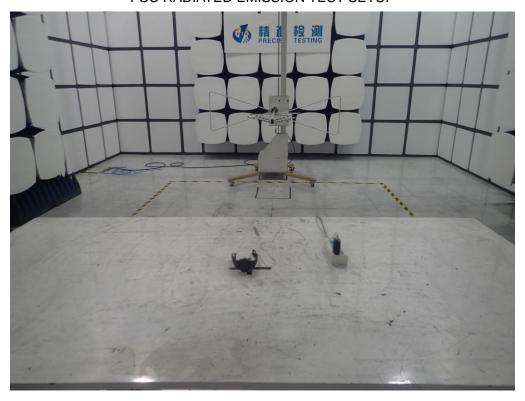
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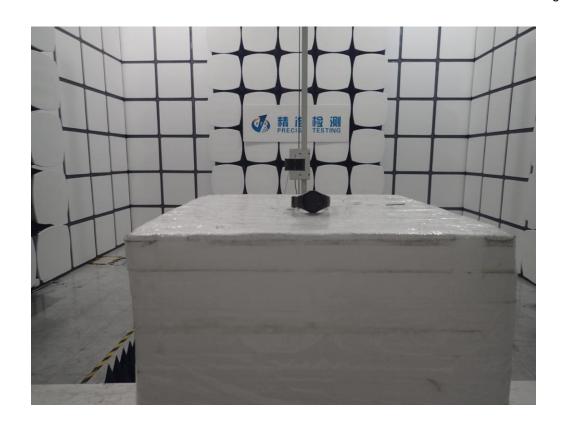
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP





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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



THE LABEL OF BATTERY



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TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT

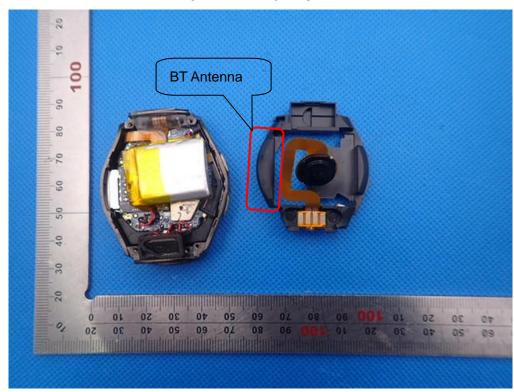


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OPEN VIEW OF EUT-1

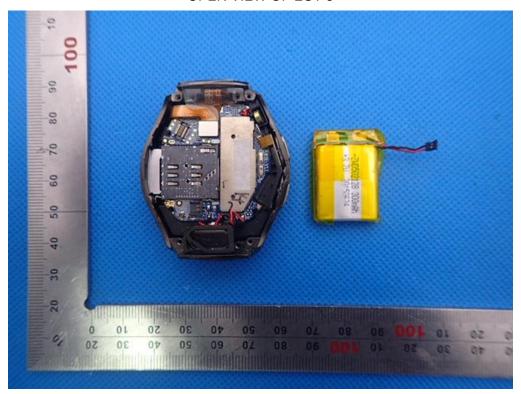


OPEN VIEW OF EUT-2

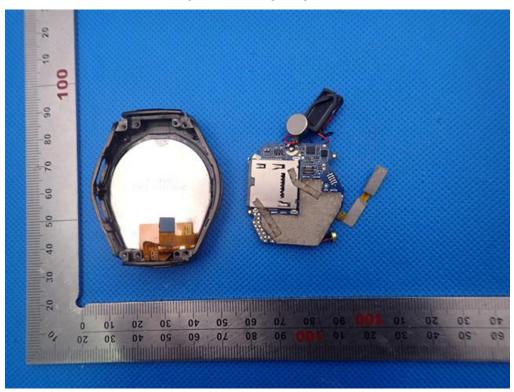


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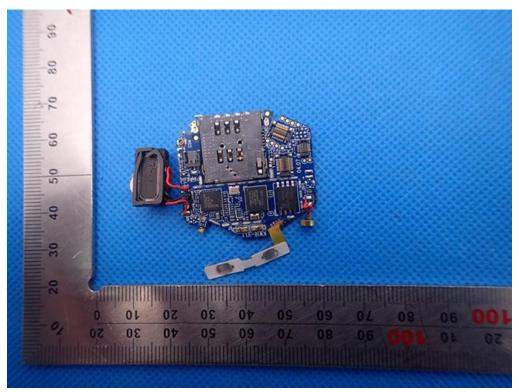
OPEN VIEW OF EUT-3



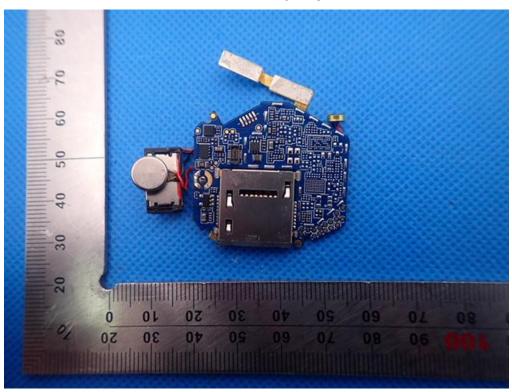
OPEN VIEW OF EUT-4



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----