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# FCC Test Report

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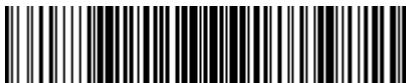
Report No.: AGC01173160901FE03

**FCC ID** : 2AASJSMD-1770A  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Mobile Phone  
**BRAND NAME** : DAEWOO  
**MODEL NAME** : SMD-1770A  
**CLIENT** : Daewoo International Corp.  
**DATE OF ISSUE** : Oct. 10, 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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This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.



### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 10, 2016	Valid	Original Report

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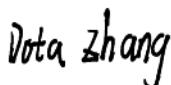
## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Daewoo International Corp.
<b>Address</b>	84-11, Namdaemunno 5-ga, Jung-gu, Seoul 100-753 Korea
<b>Manufacturer</b>	United Creation Technology Corp., Ltd.
<b>Address</b>	Room 201, Block A, Science and Technology Building Phase-II, Nanhai Road 1057, Shekou, Nanshan District, Shenzhen, CN.
<b>Product Designation</b>	Mobile Phone
<b>Brand Name</b>	DAEWO
<b>Test Model</b>	SMD-1770A
<b>Date of test</b>	Sep. 22, 2016~Sep.30, 2016
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	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



Dota Zhang(Zhang Jianfeng)

Oct. 10, 2016

Reviewed By



Bart Xie(Xie Xiaobin)

Oct. 10, 2016

Approved By



Solger Zhang(Zhang Hongyi)  
Authorized Officer

Oct. 10, 2016

## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is "Mobile Phone" 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

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	5.90dBm(Max)
<b>Bluetooth Version</b>	V 3.0
<b>Modulation</b>	GFSK, $\pi/4$ -DQPSK, 8DPSK
<b>Number of channels</b>	79(For BR/EDR)
<b>Hardware Version</b>	5777-MB-V2.1
<b>Software Version</b>	N/A
<b>Antenna Designation</b>	Integrated Antenna
<b>Antenna Gain</b>	0.4dBi
<b>Power Supply</b>	DC3.7V by Battery

### 2.2. TABLE OF CARRIER FREQUENCYS

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

### **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 or 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 SEQUENCE 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 behavior 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(permuations, 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 behavior:

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.

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

This submittal(s) (test report) is intended for **FCC ID: 2AASJSMD-1770A** 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 $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Normal Hopping

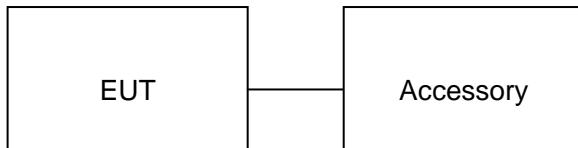
Note:

1. All the test modes can be supplied 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.

## 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	Mobile Phone	SMD-1770A	2AASJSMD-1770A	EUT
2	Battery	SMD-1770A	DC 3.7V/ 600mAH	Accessory
3	Adapter	SMD-1770A	DC 5.0V/ 500mA	Accessory
4	Earphone	SMD-1770A	N/A	Accessory
5	USB Cable	SMD-1770A	N/A	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

## 6. TEST FACILITY

<b>Site</b>	Dongguan Precise Testing Service Co., Ltd.
<b>Location</b>	Building D, Baoding Technology Park, Guangming Road 2, Dongcheng District, Dongguan, Guangdong, China,
<b>FCC Registration No.</b>	371540
<b>Description</b>	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					
<b>Name of Equipment</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Last Calibration</b>	<b>Due Calibration</b>
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					
<b>Name of Equipment</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Last Calibration</b>	<b>Due Calibration</b>
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

Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	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
<b>Conducted Emission Test Site</b>					
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
Artificial Mains Network	Narda	L2-16B	000WX31025	July 7, 2016	July 6, 2017
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 7, 2016	July 6, 2017
RF Cable	SCHWARZBECK	AK9515E	96222	July 3, 2016	July 2, 2017
Shielded Room	CHENGYU	843	PTS-002	June 5,2016	June 4,2017

## 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,  $VBW \geq RBW$ .
4. Record the maximum power from the Spectrum Analyzer.

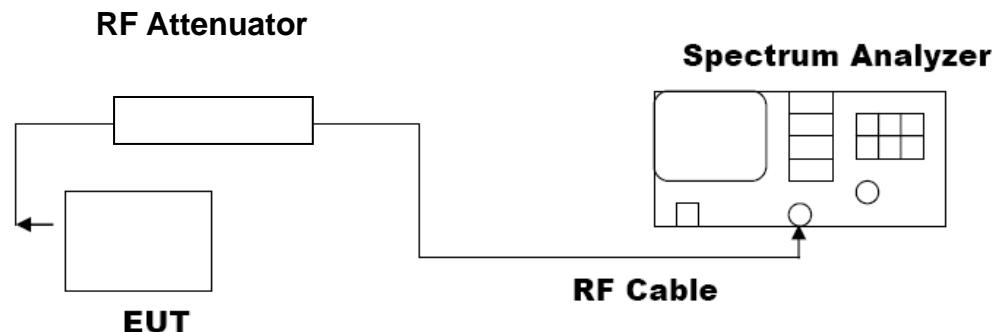
For average power test:

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).

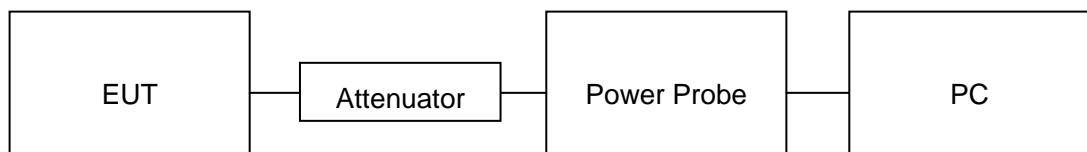
**Note :** The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

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

#### PEAK POWER TEST SETUP



#### AVERAGE POWER SETUP



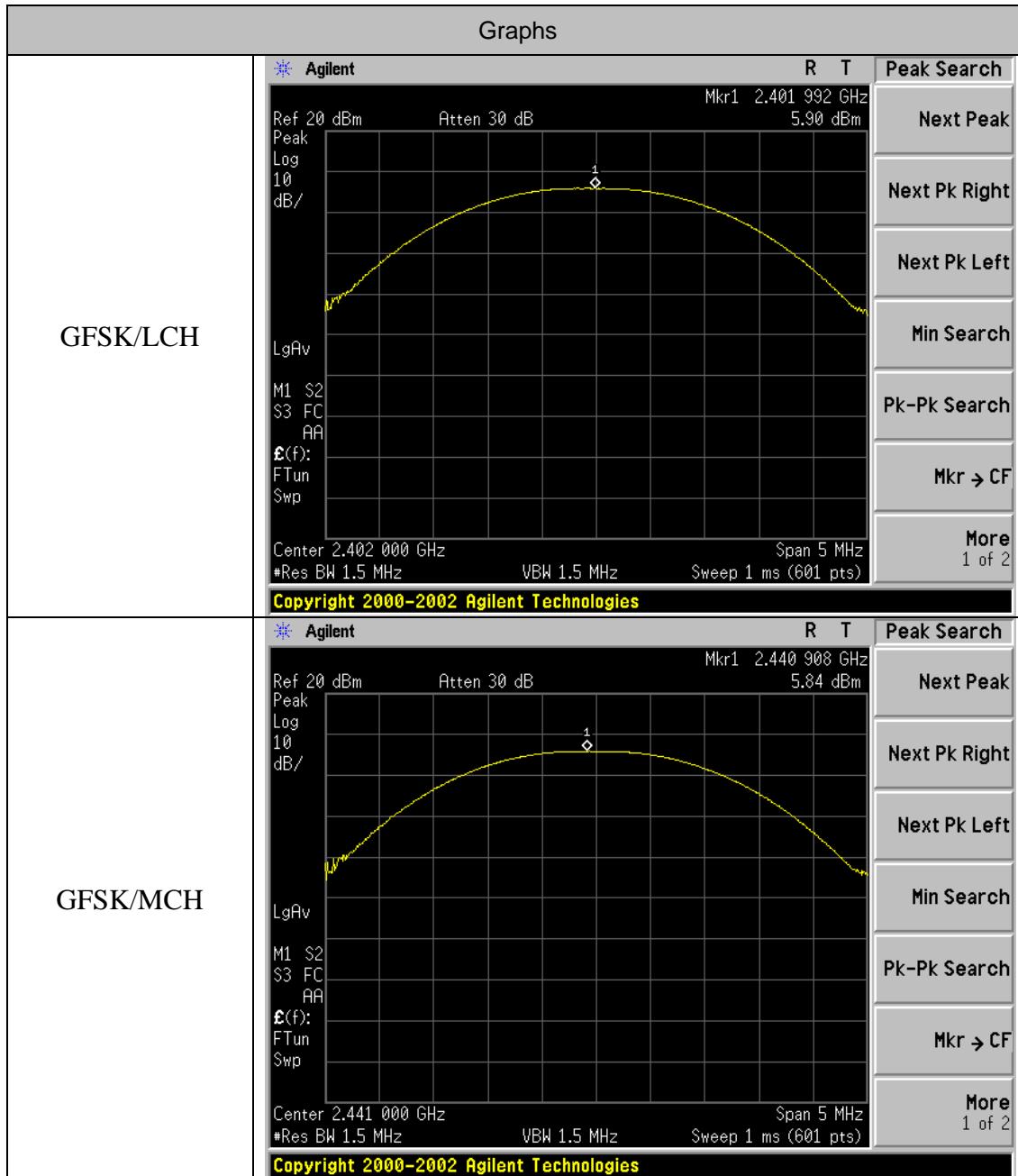
### 7.3. LIMITS AND MEASUREMENT RESULT

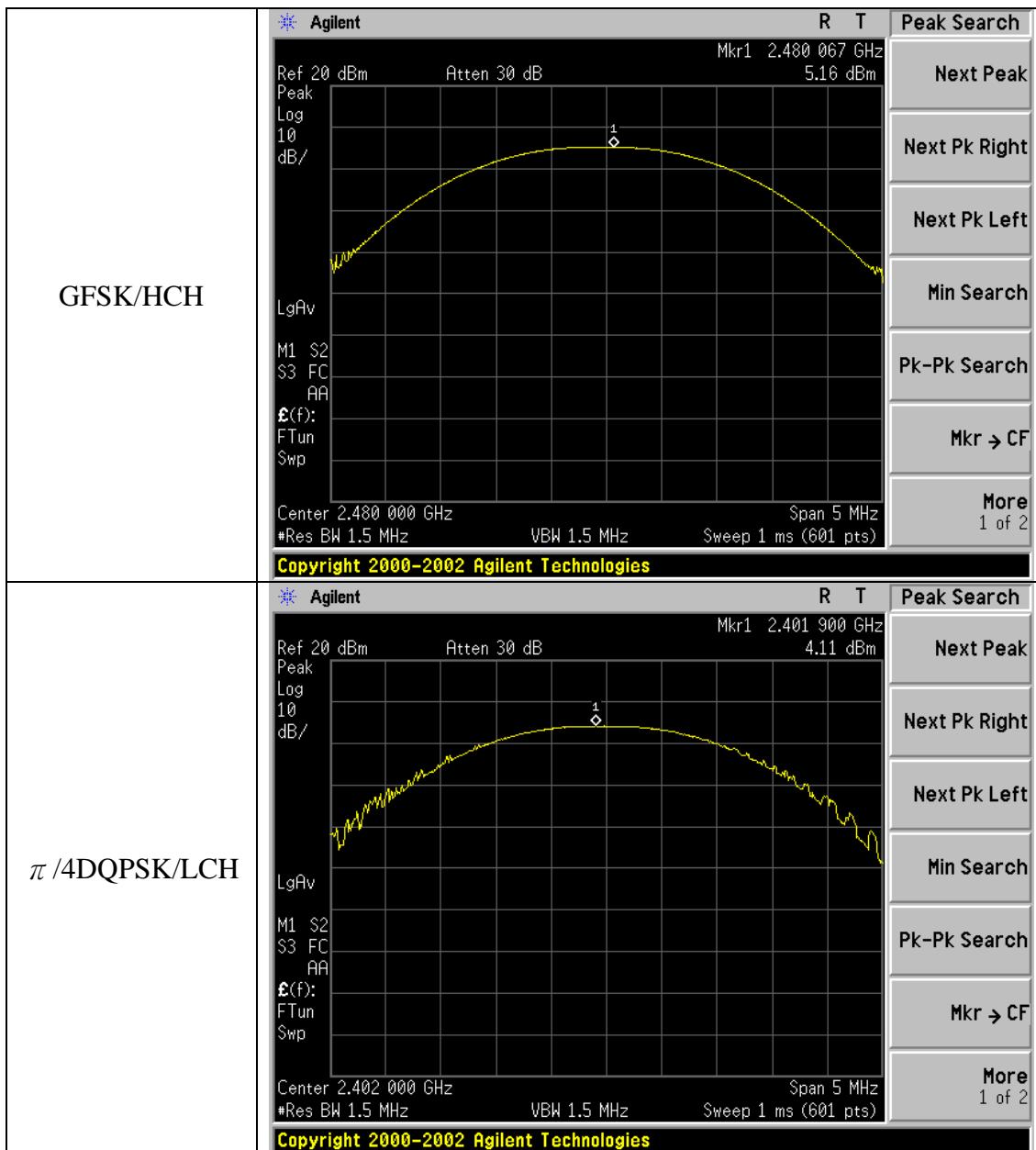
PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MODULATION				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	3.85	5.90	21	Pass
2.441	3.72	5.84	21	Pass
2.480	3.20	5.16	21	Pass

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	2.18	4.11	21	Pass
2.441	2.27	4.39	21	Pass
2.480	1.91	3.95	21	Pass

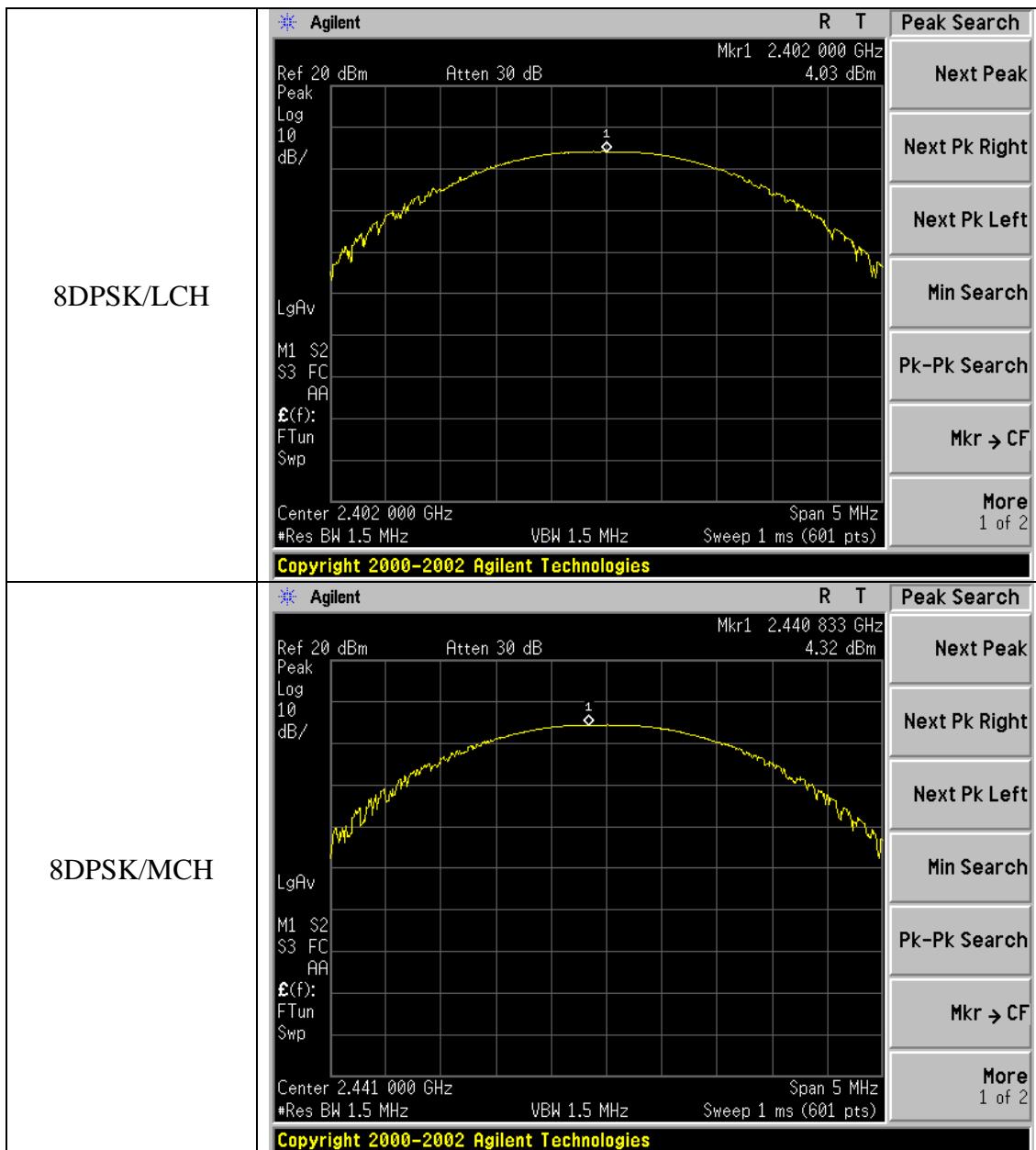
PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	2.07	4.03	21	Pass
2.441	2.41	4.32	21	Pass
2.480	1.88	3.86	21	Pass

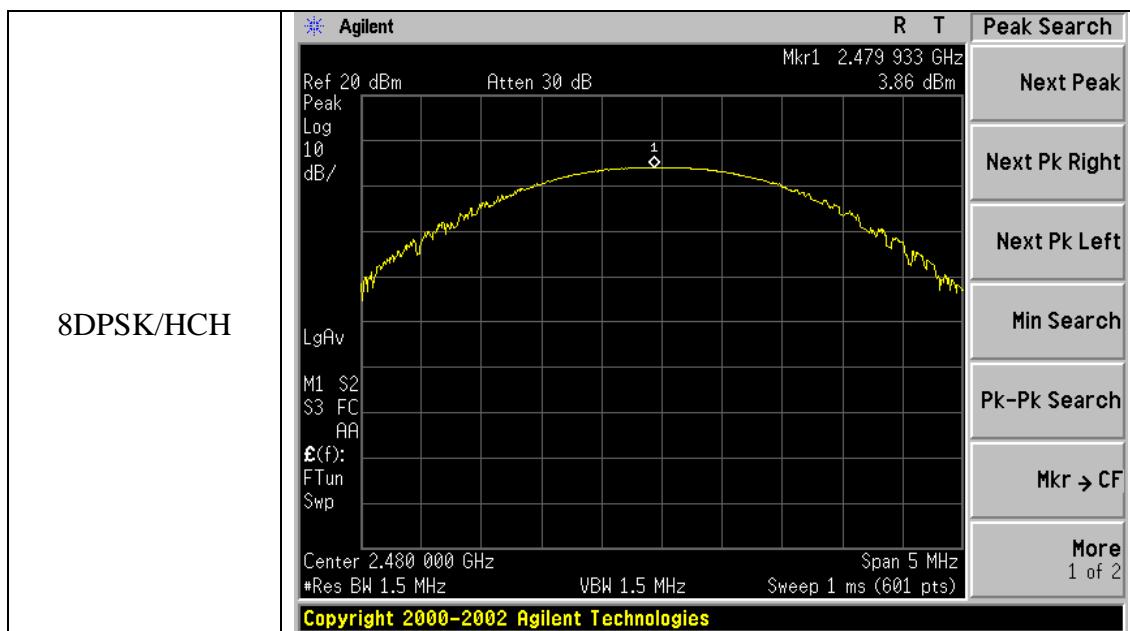
## Test Graph









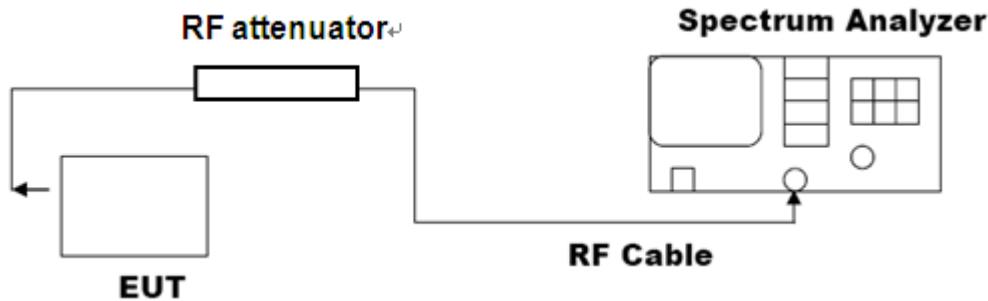


## 8. 20DB BANDWIDTH

### 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 hopping 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.

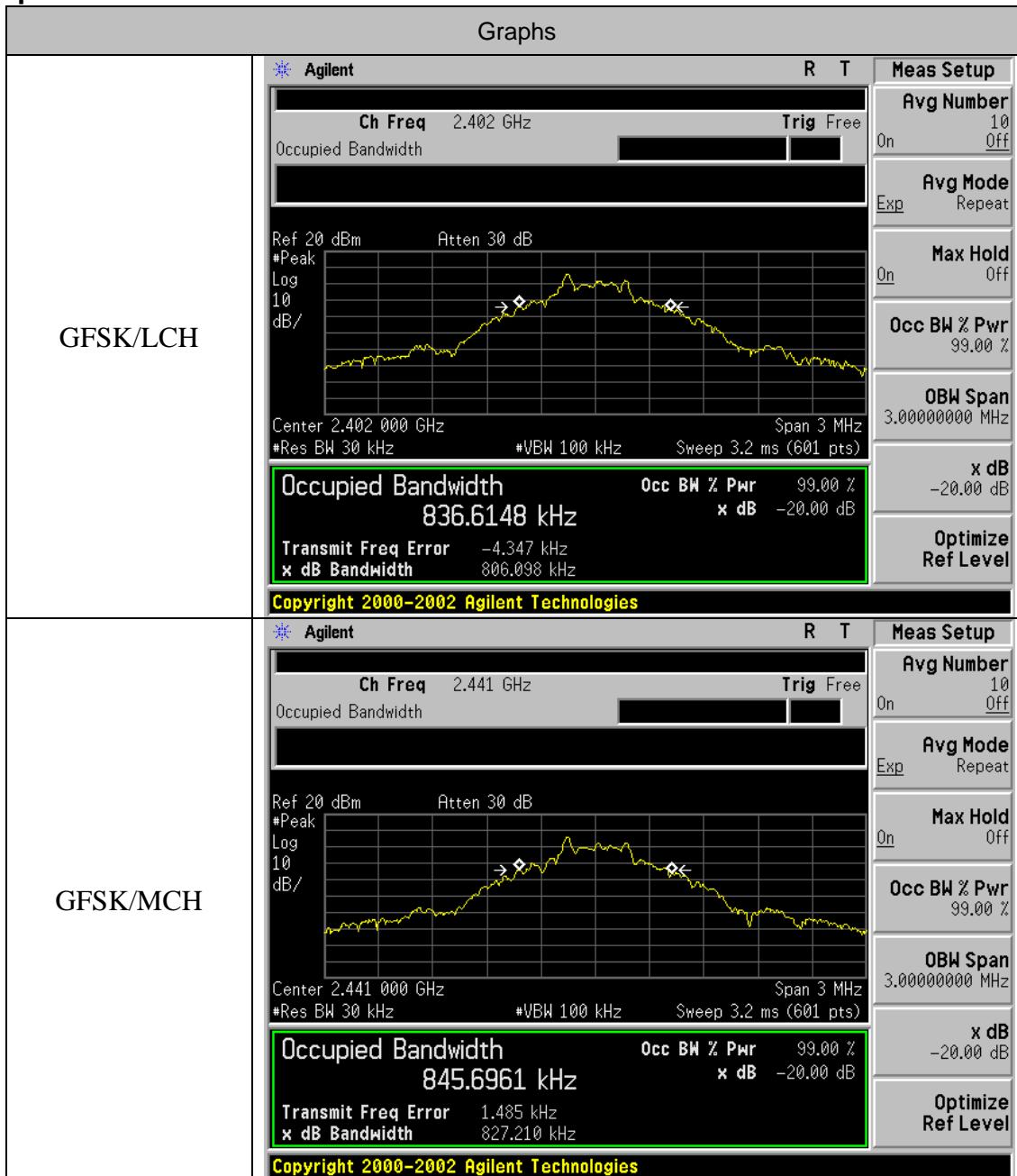
### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

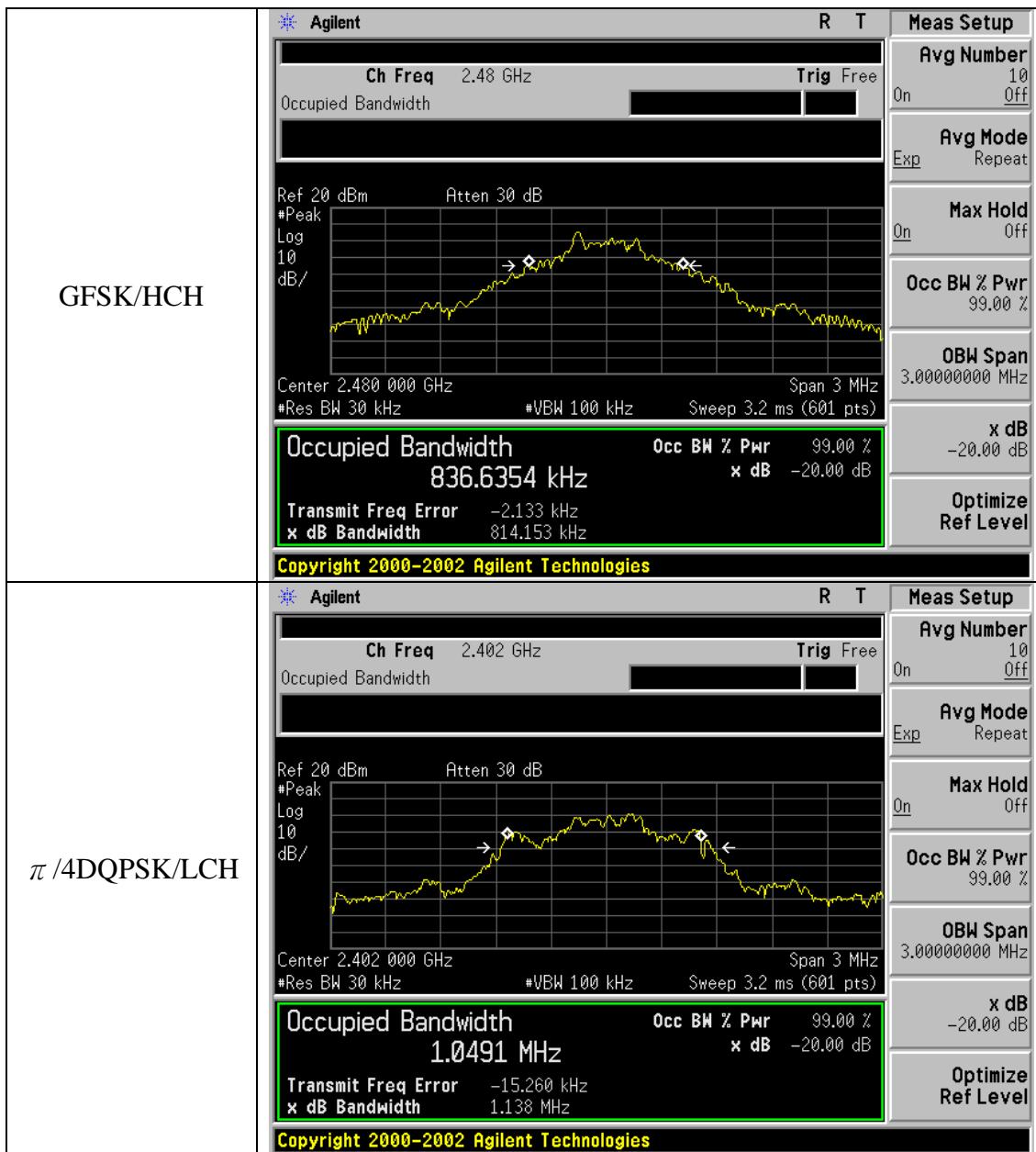


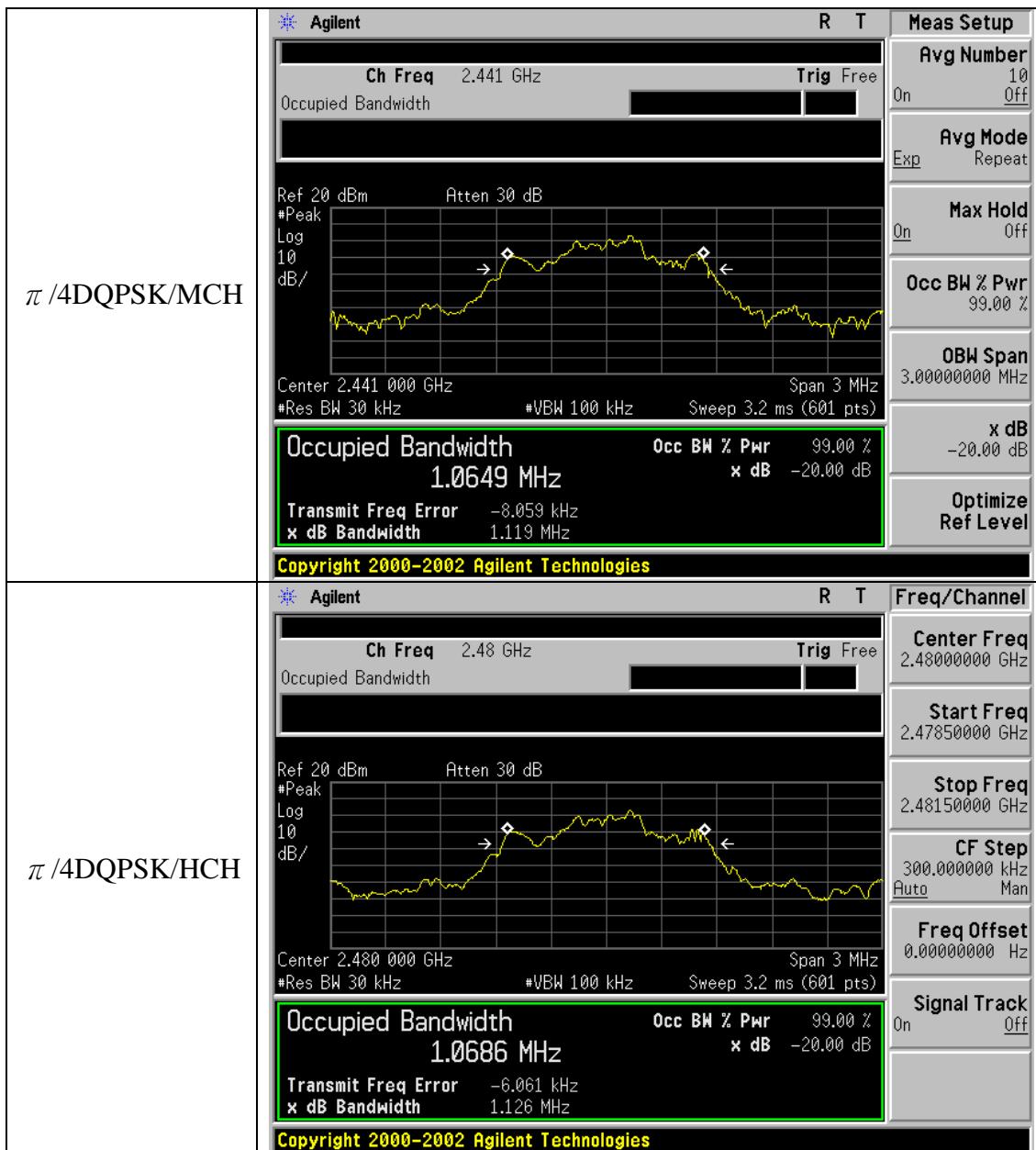
### 8.3. LIMITS AND MEASUREMENT RESULTS

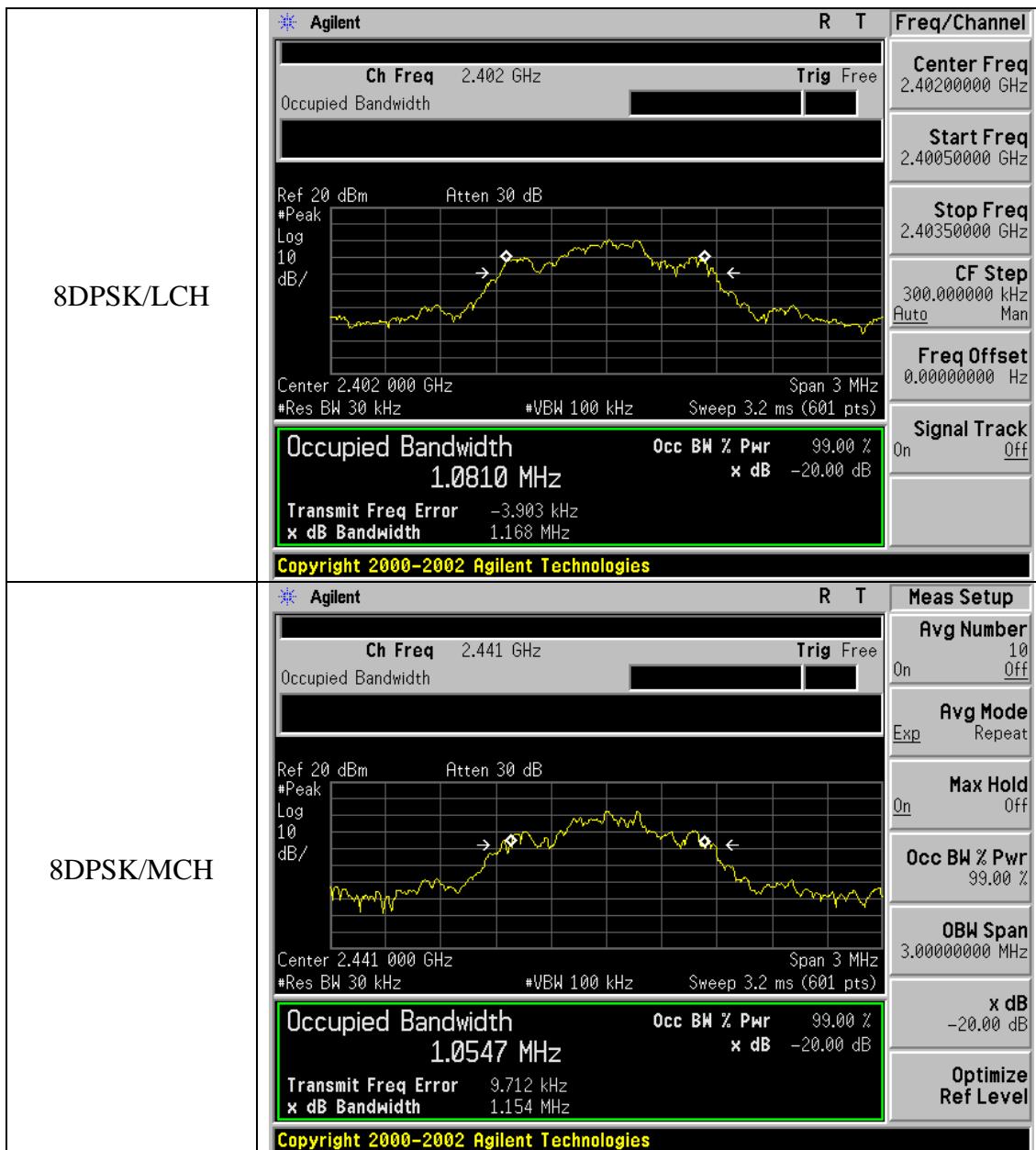
Mode	Channel.	EBW [MHz]	OBW [MHz]	Verdict
GFSK	LCH	0.806	0.836	PASS
GFSK	MCH	0.827	0.845	PASS
GFSK	HCH	0.814	0.836	PASS
π/4DQPSK	LCH	1.138	1.050	PASS
π/4DQPSK	MCH	1.119	1.065	PASS
π/4DQPSK	HCH	1.126	1.069	PASS
8DPSK	LCH	1.168	1.081	PASS
8DPSK	MCH	1.154	1.055	PASS
8DPSK	HCH	1.146	1.088	PASS

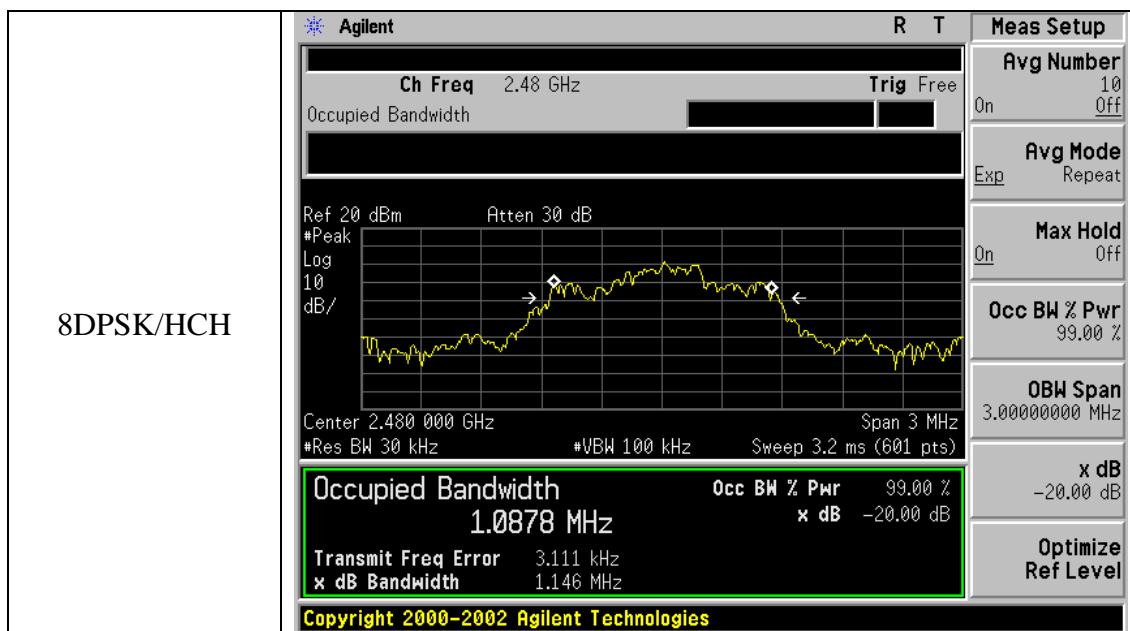
## Test Graph











## 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  $\geq$  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

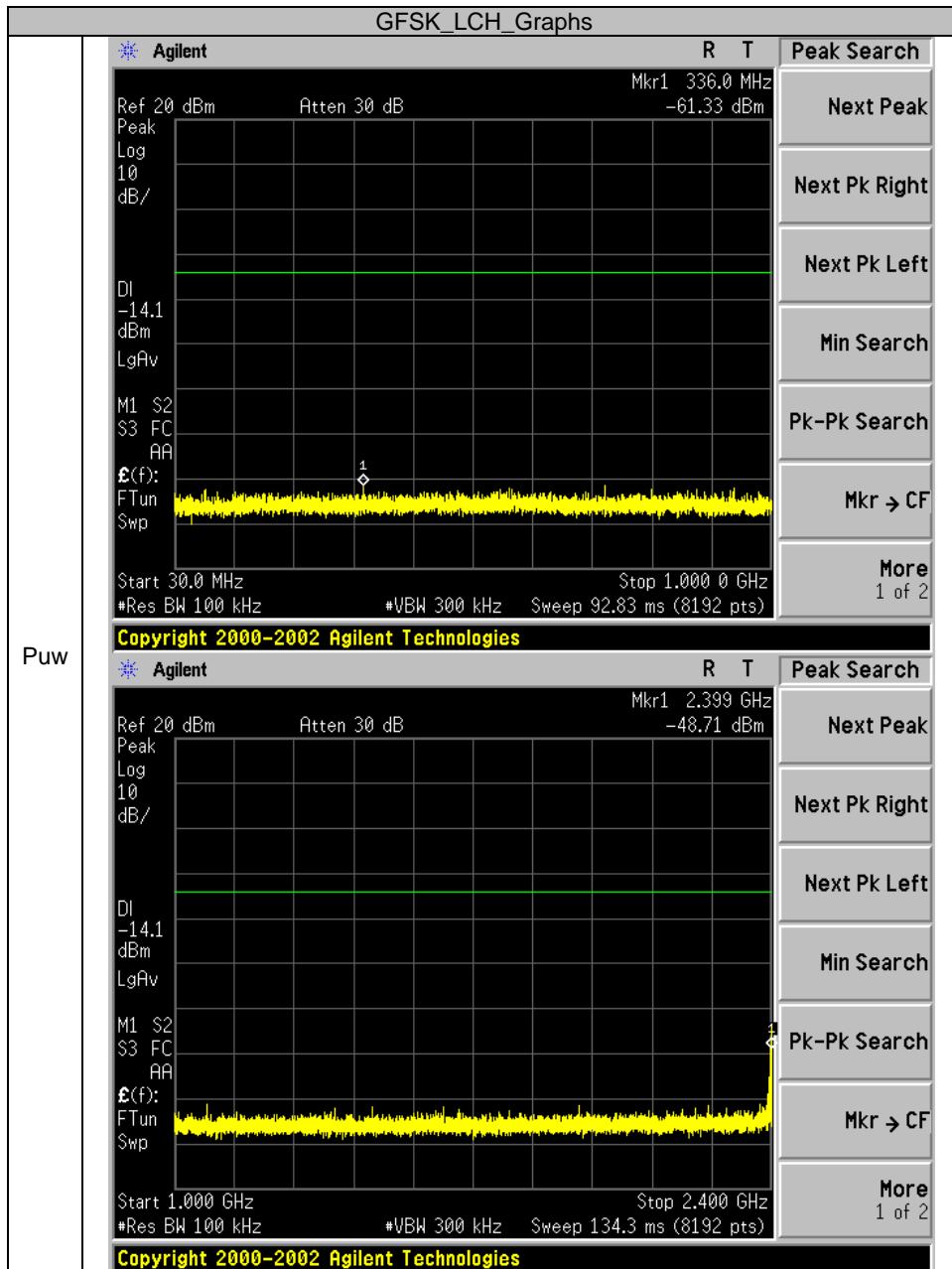
### 9.3. MEASUREMENT EQUIPMENT USED

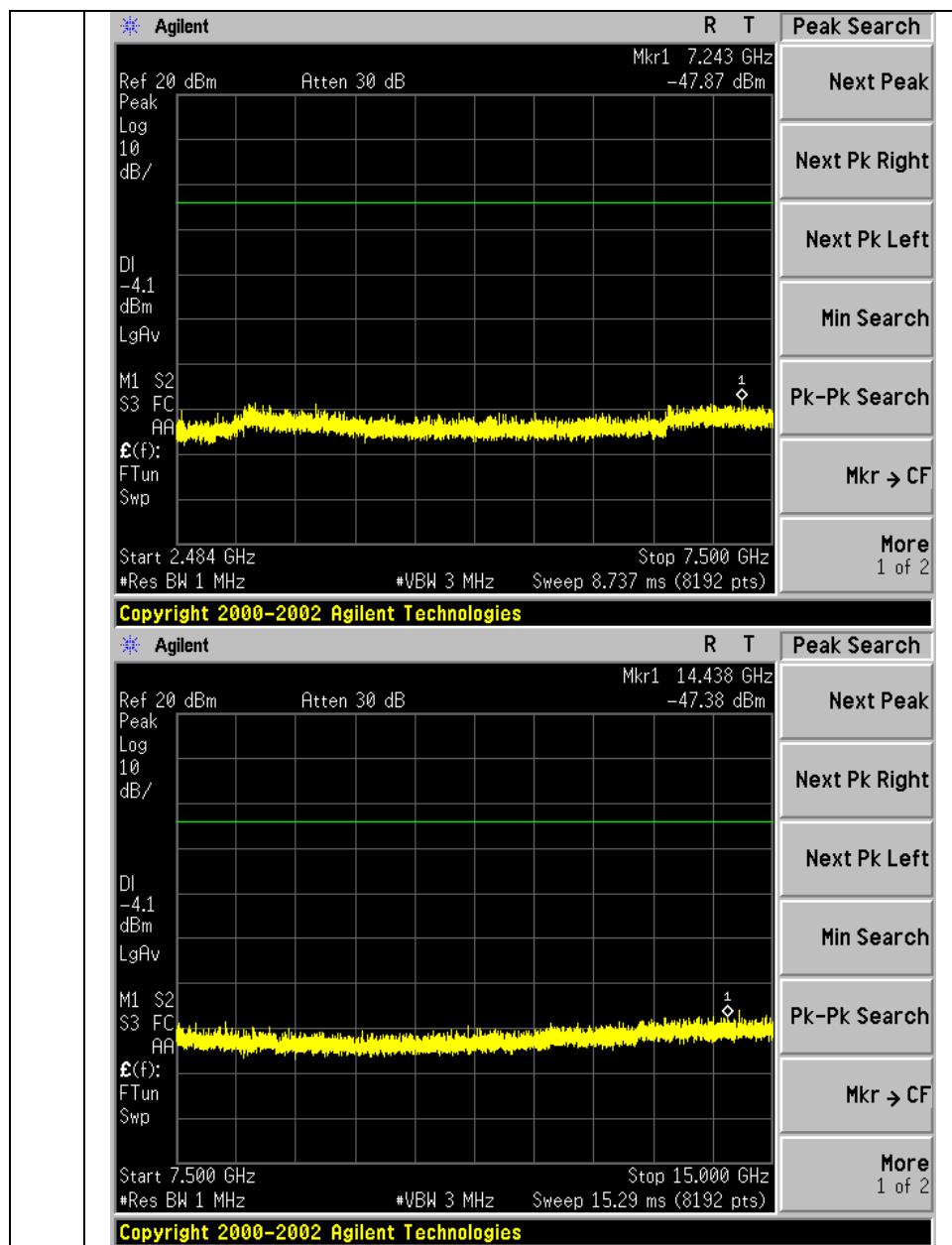
The same as described in section 6

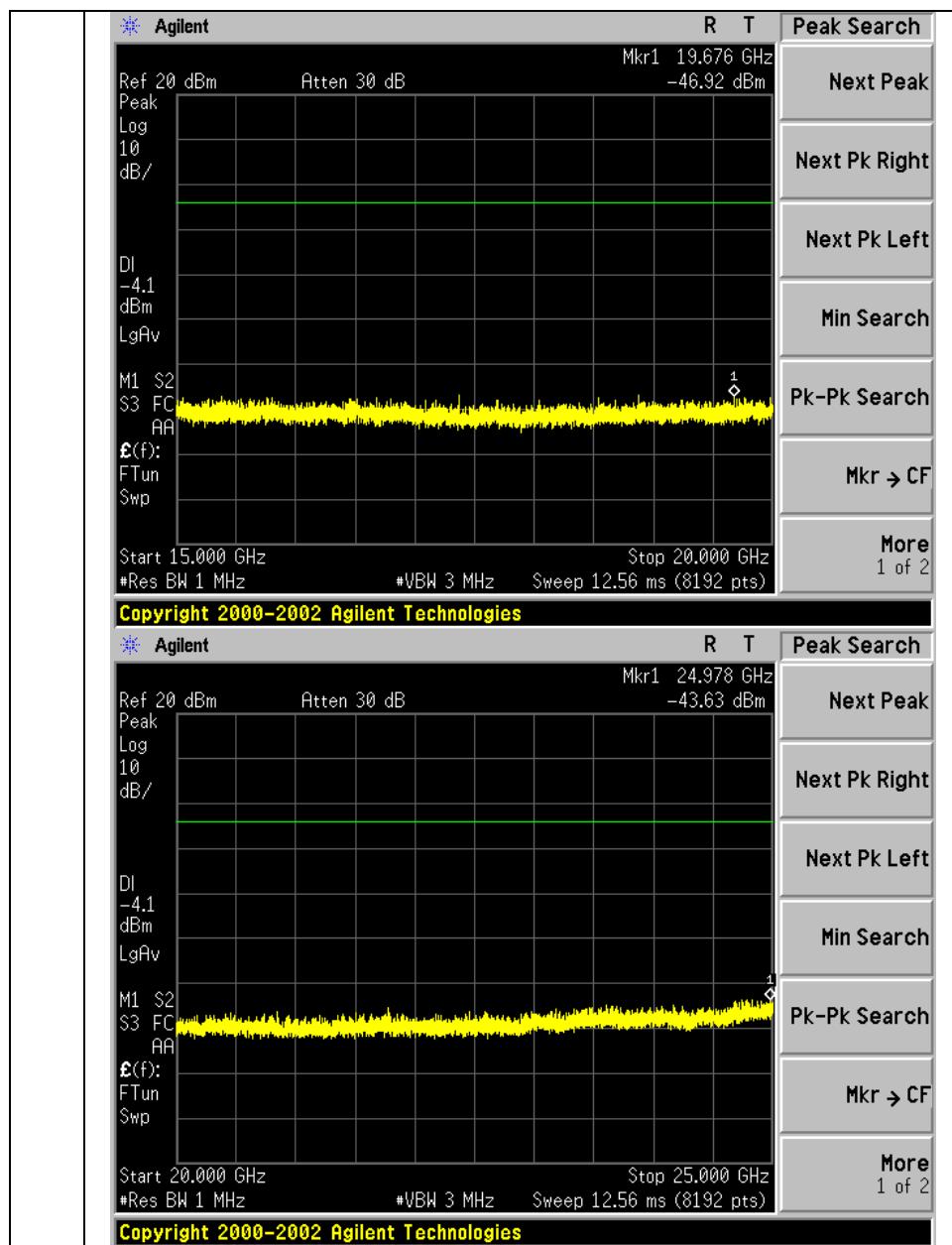
### 9.4. LIMITS AND MEASUREMENT RESULT

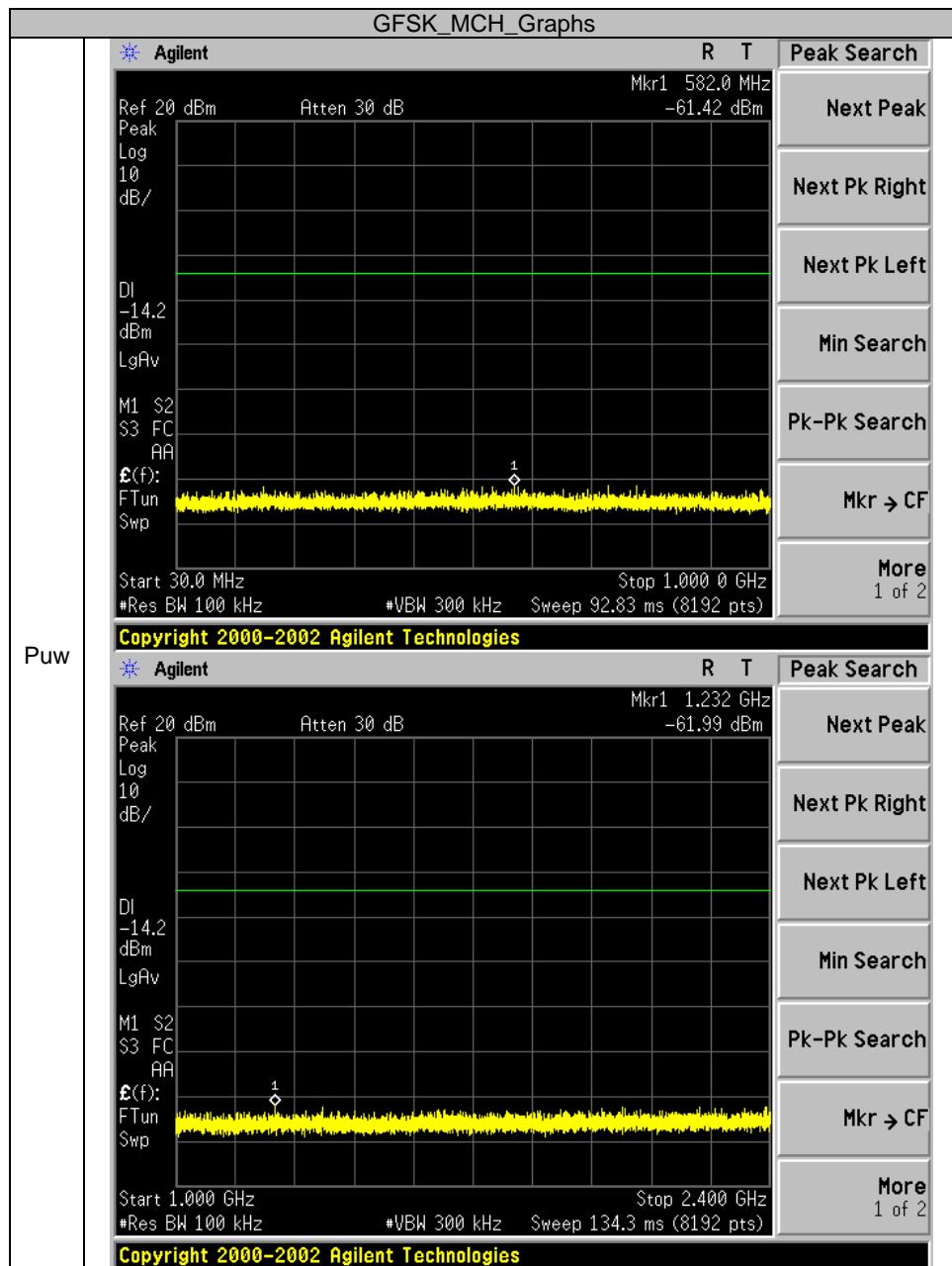
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

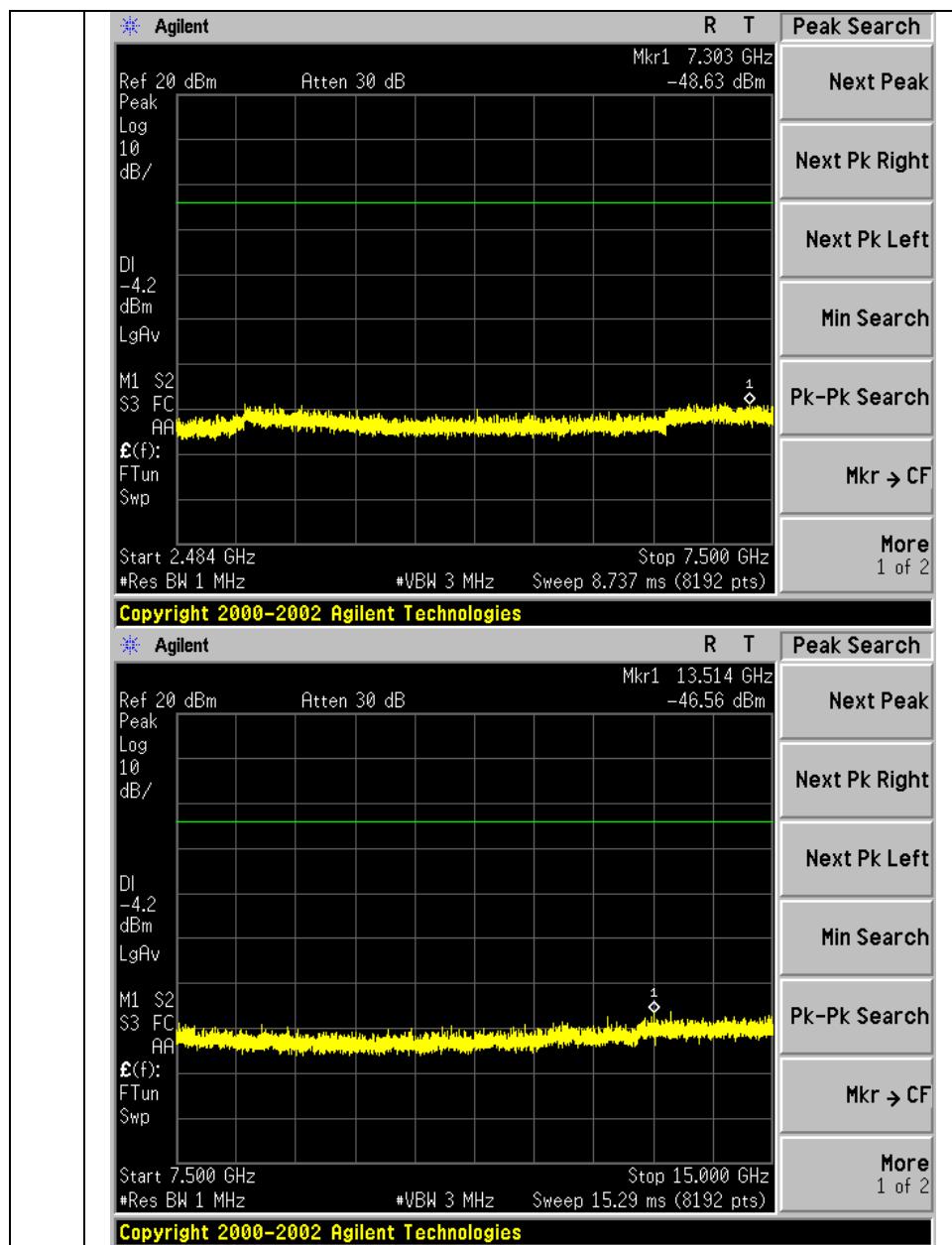
## Test Graph

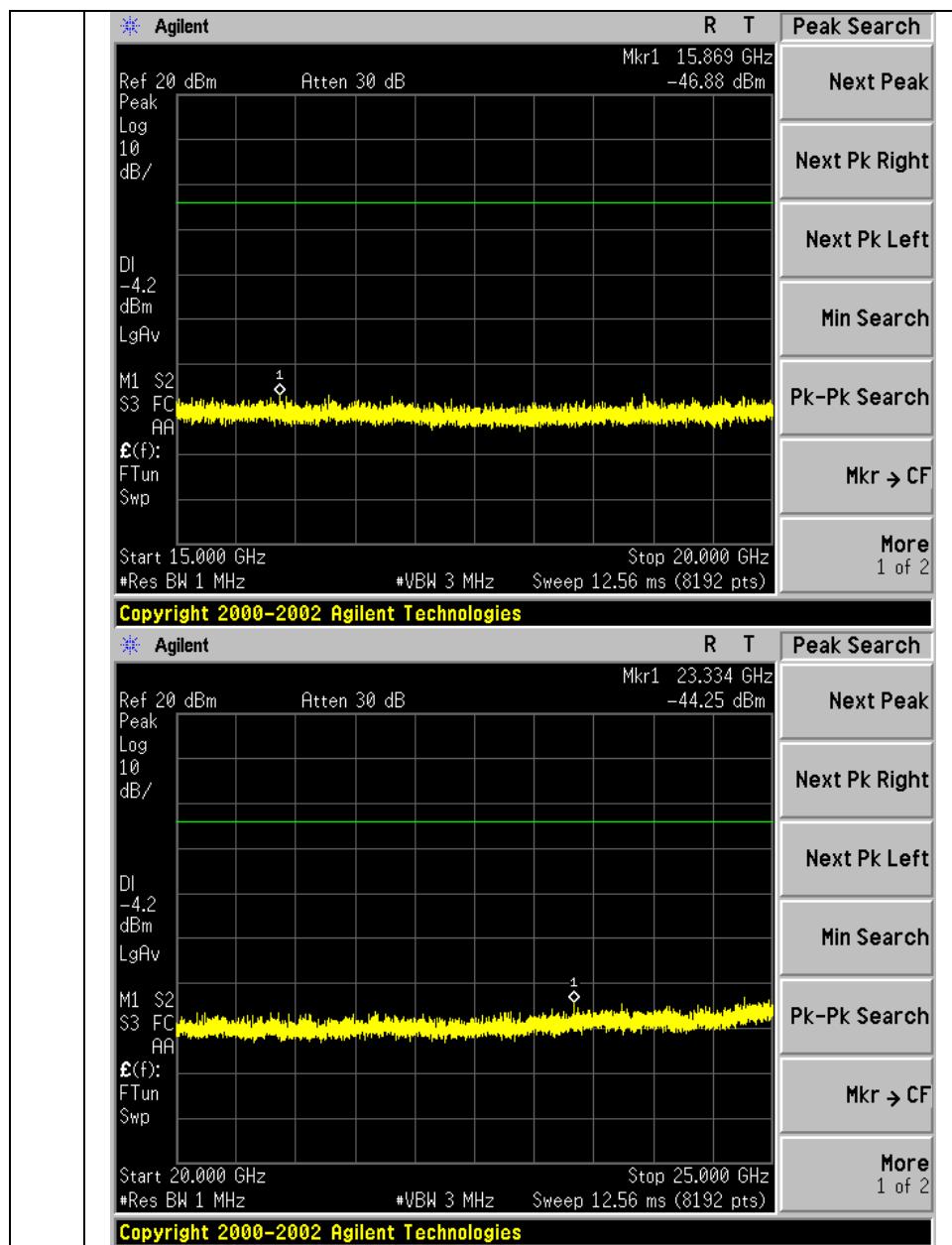


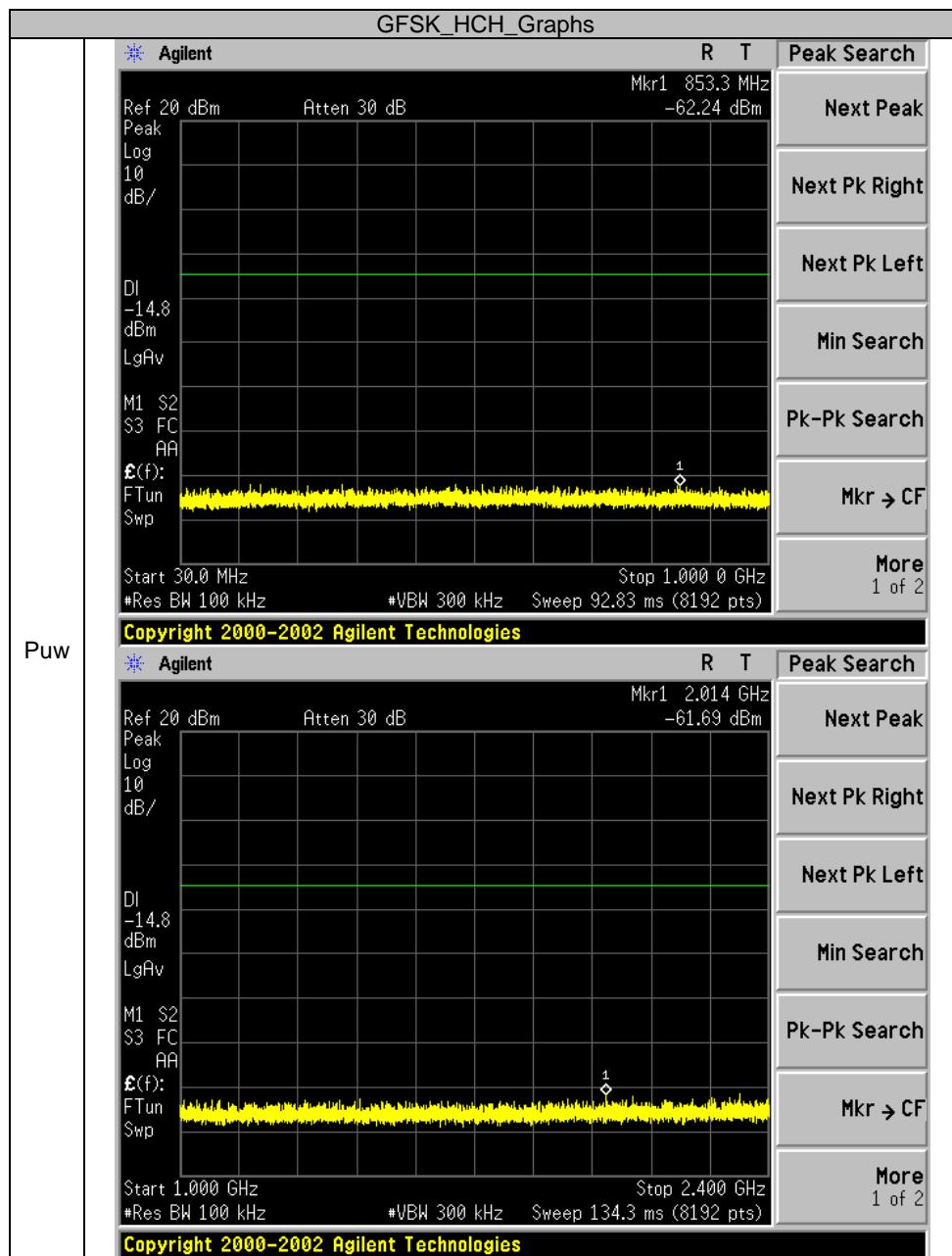


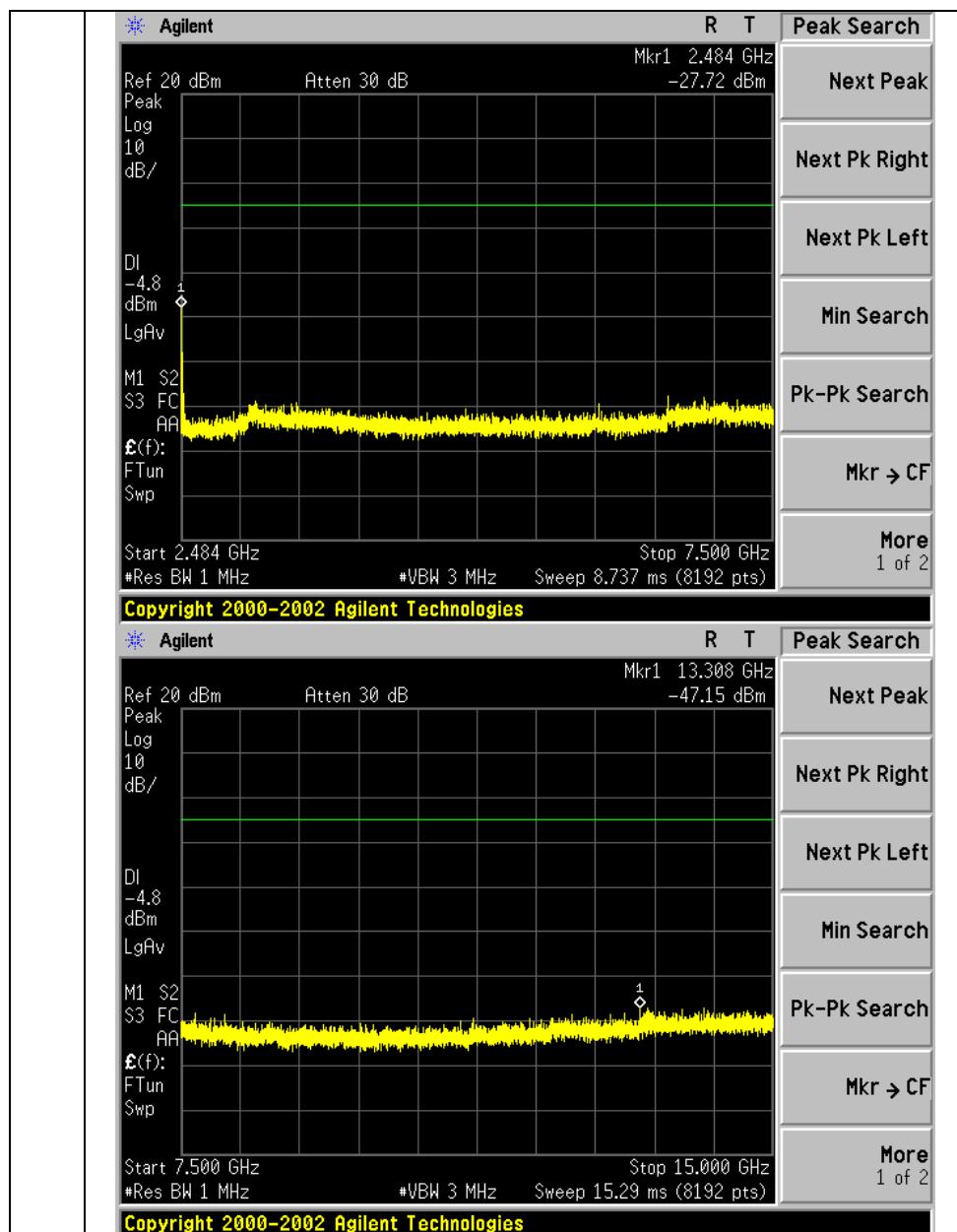


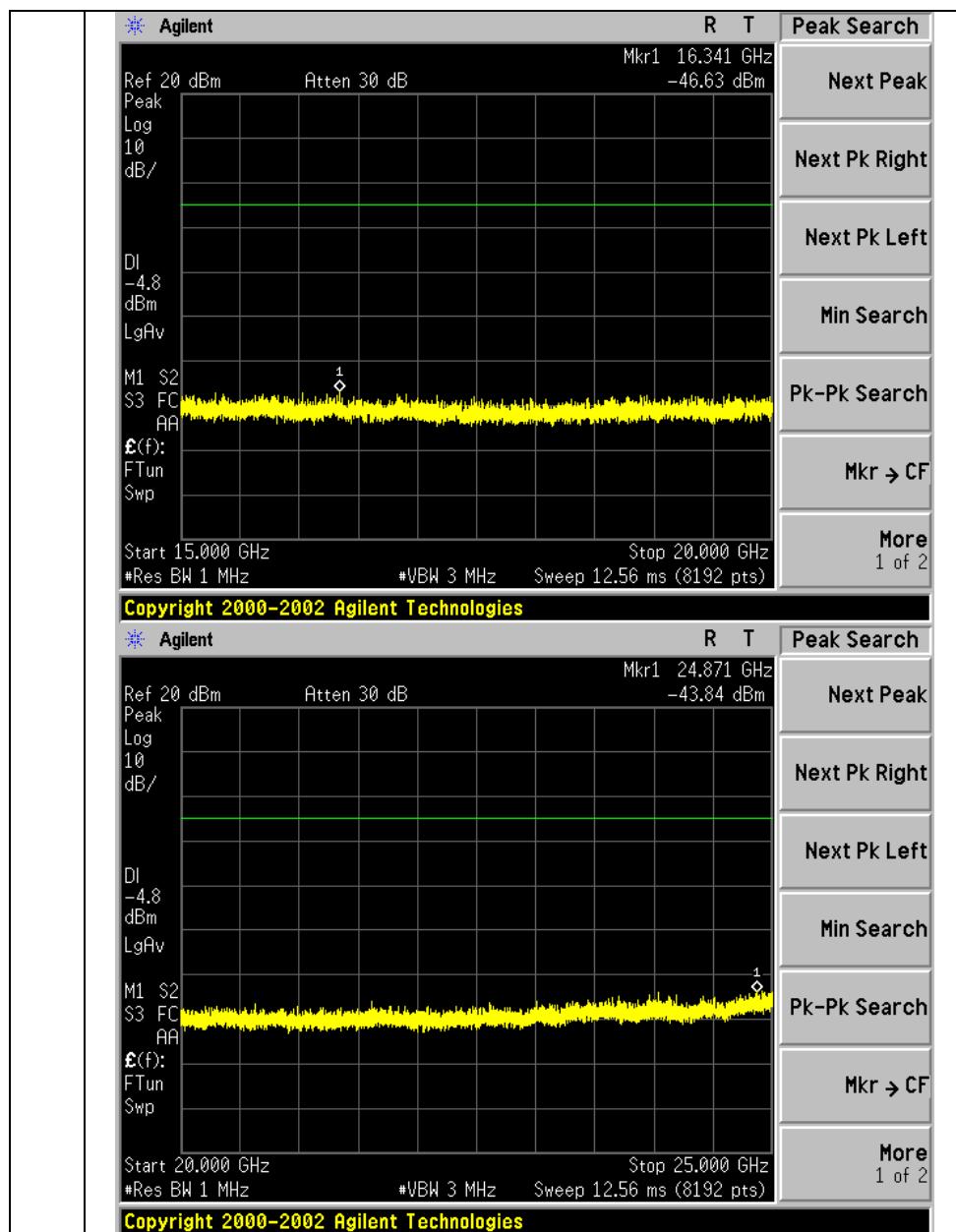


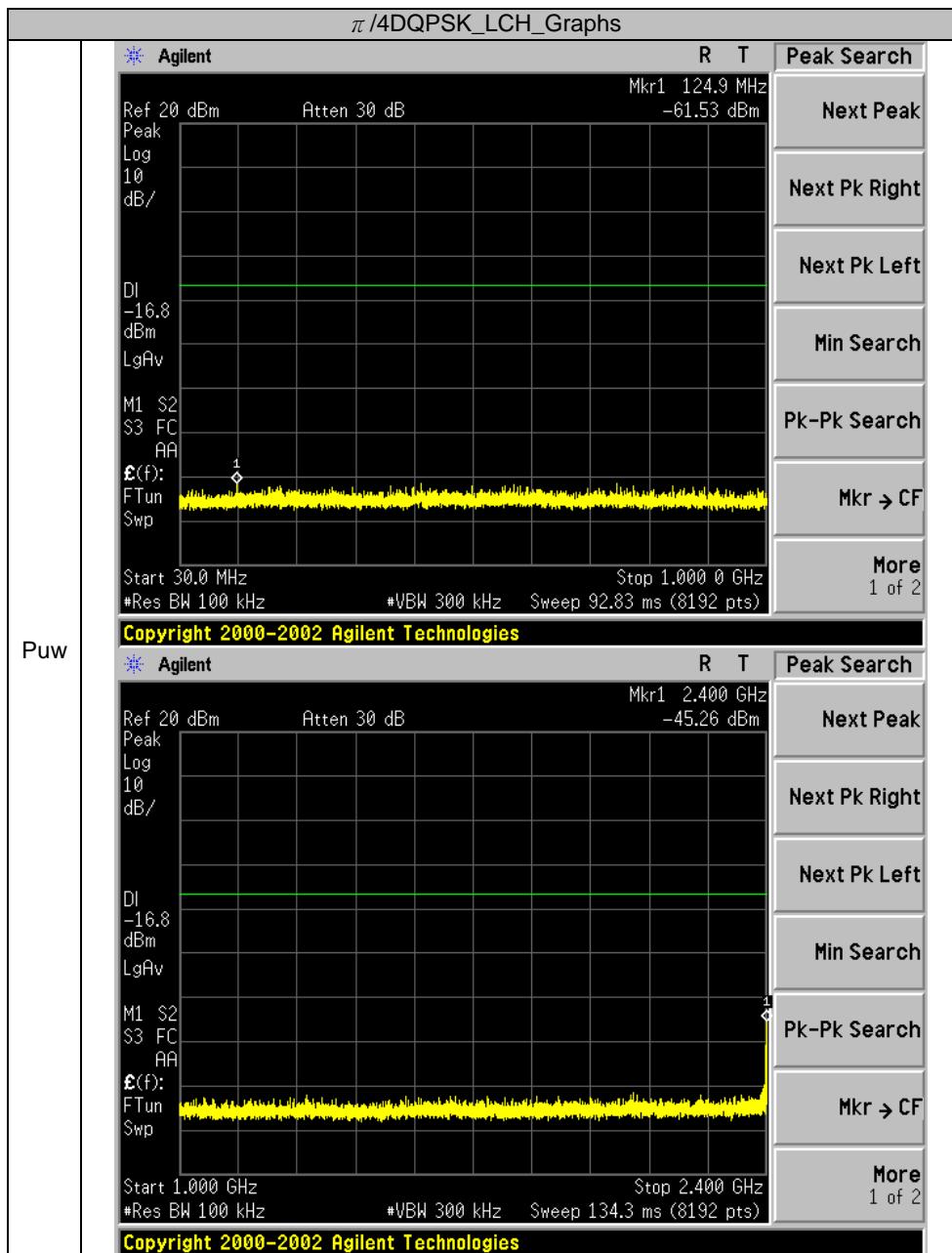


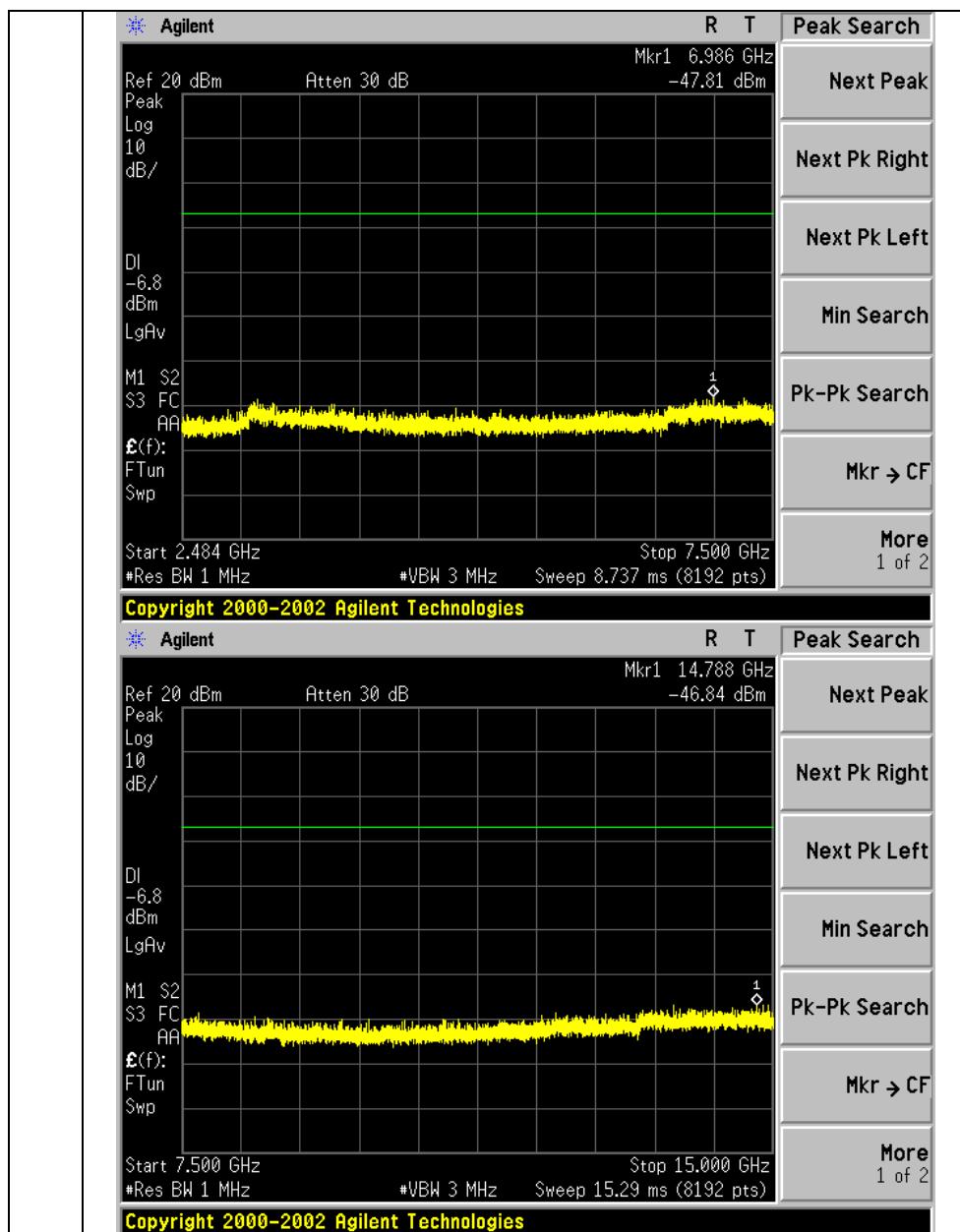


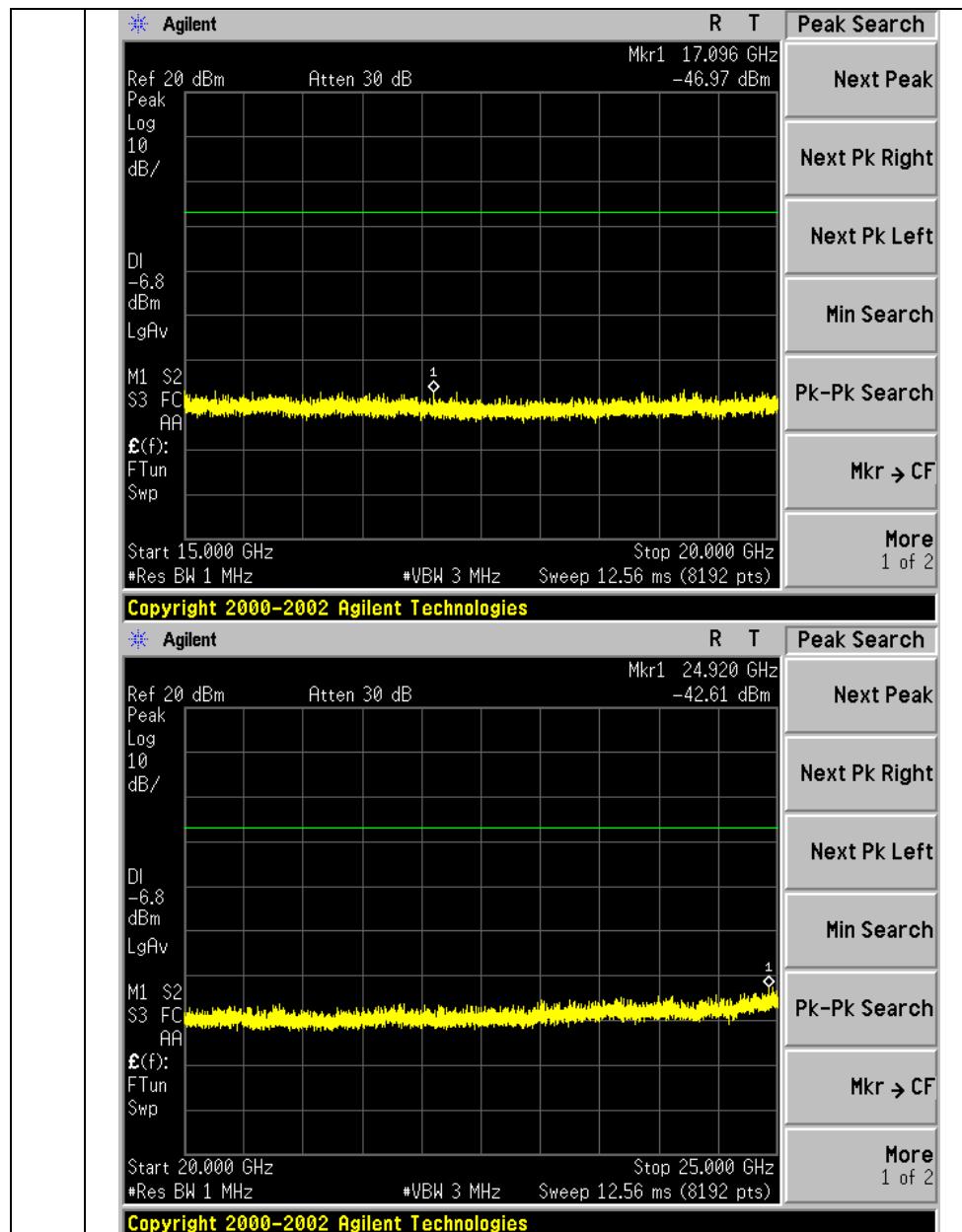


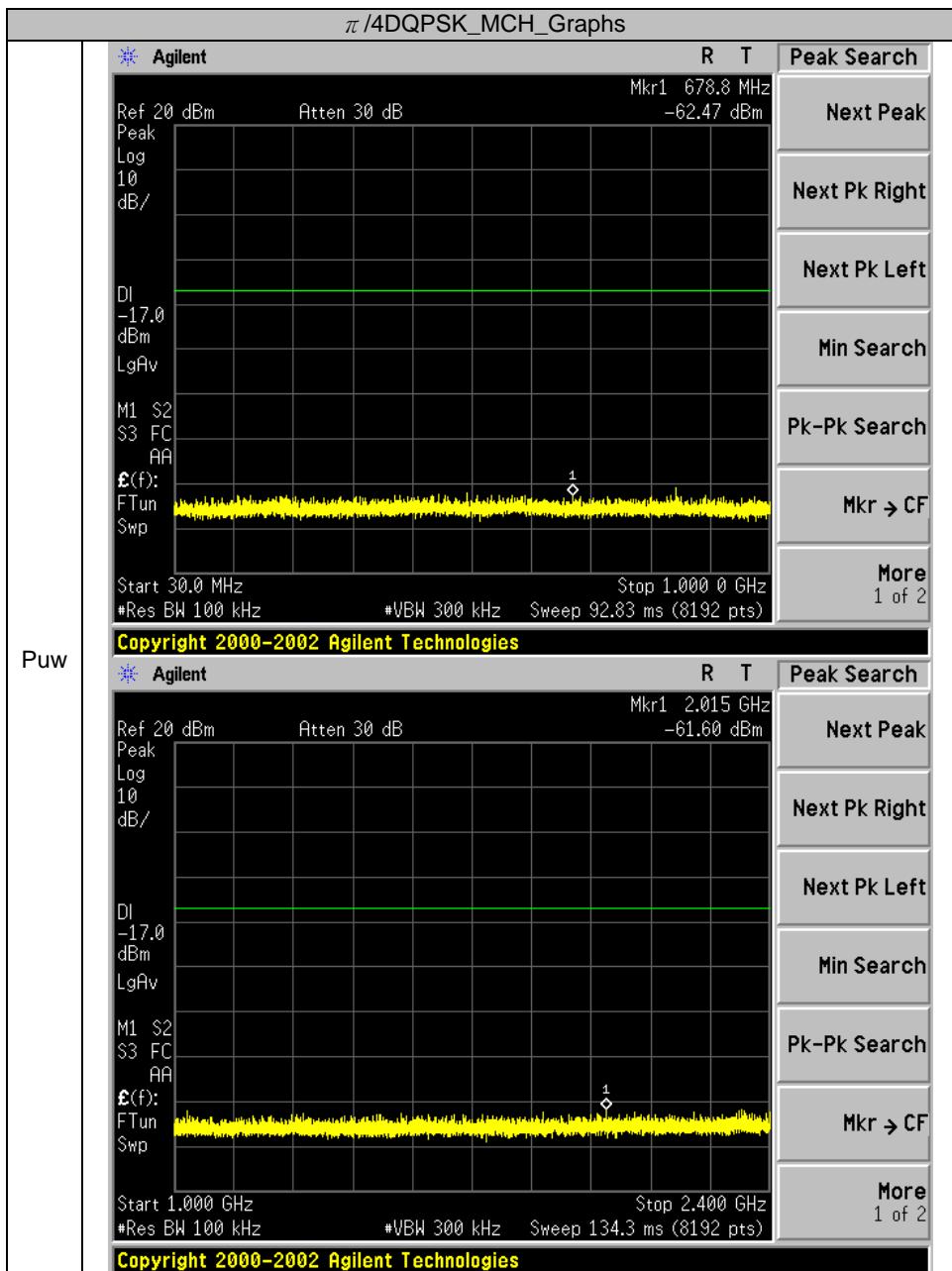


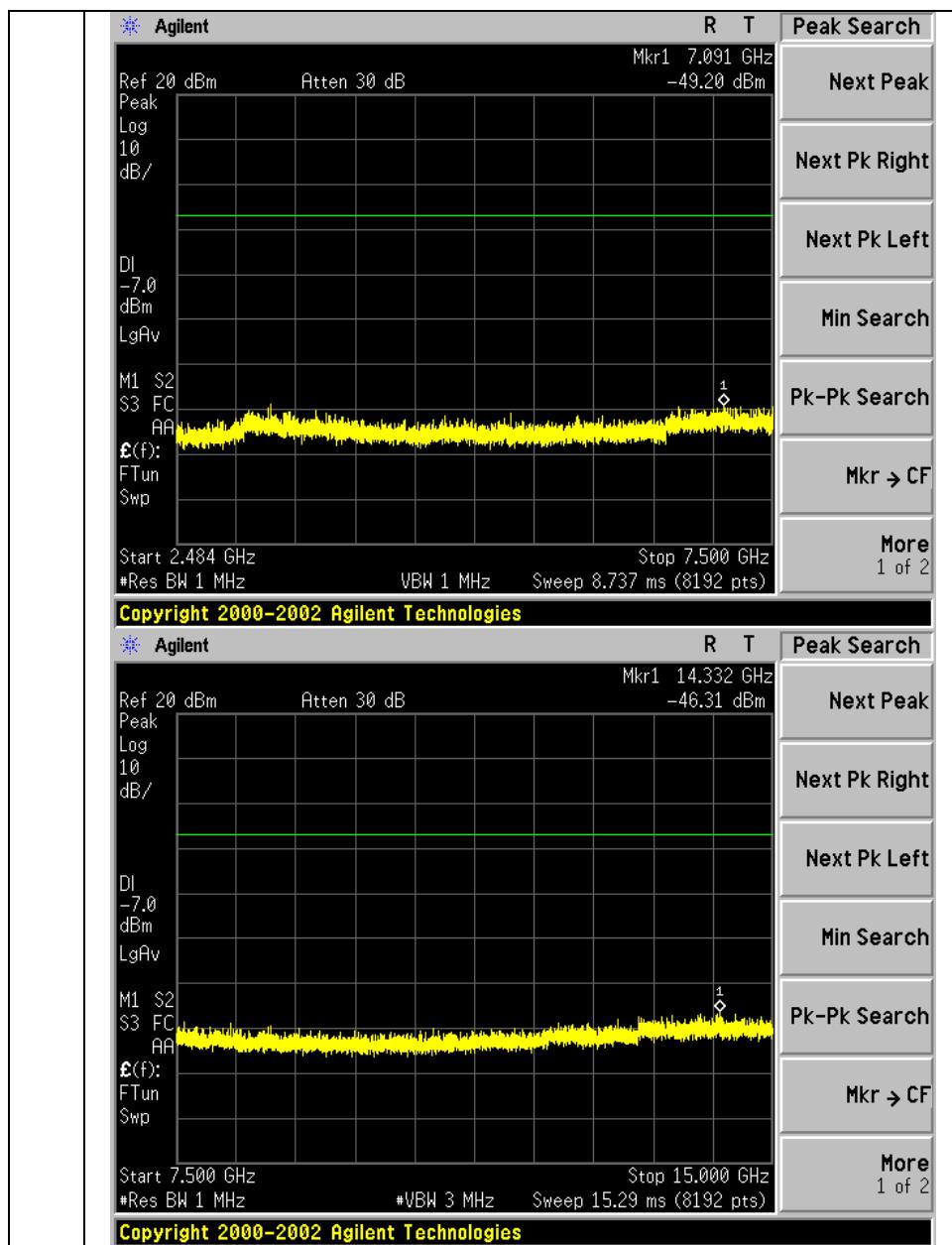


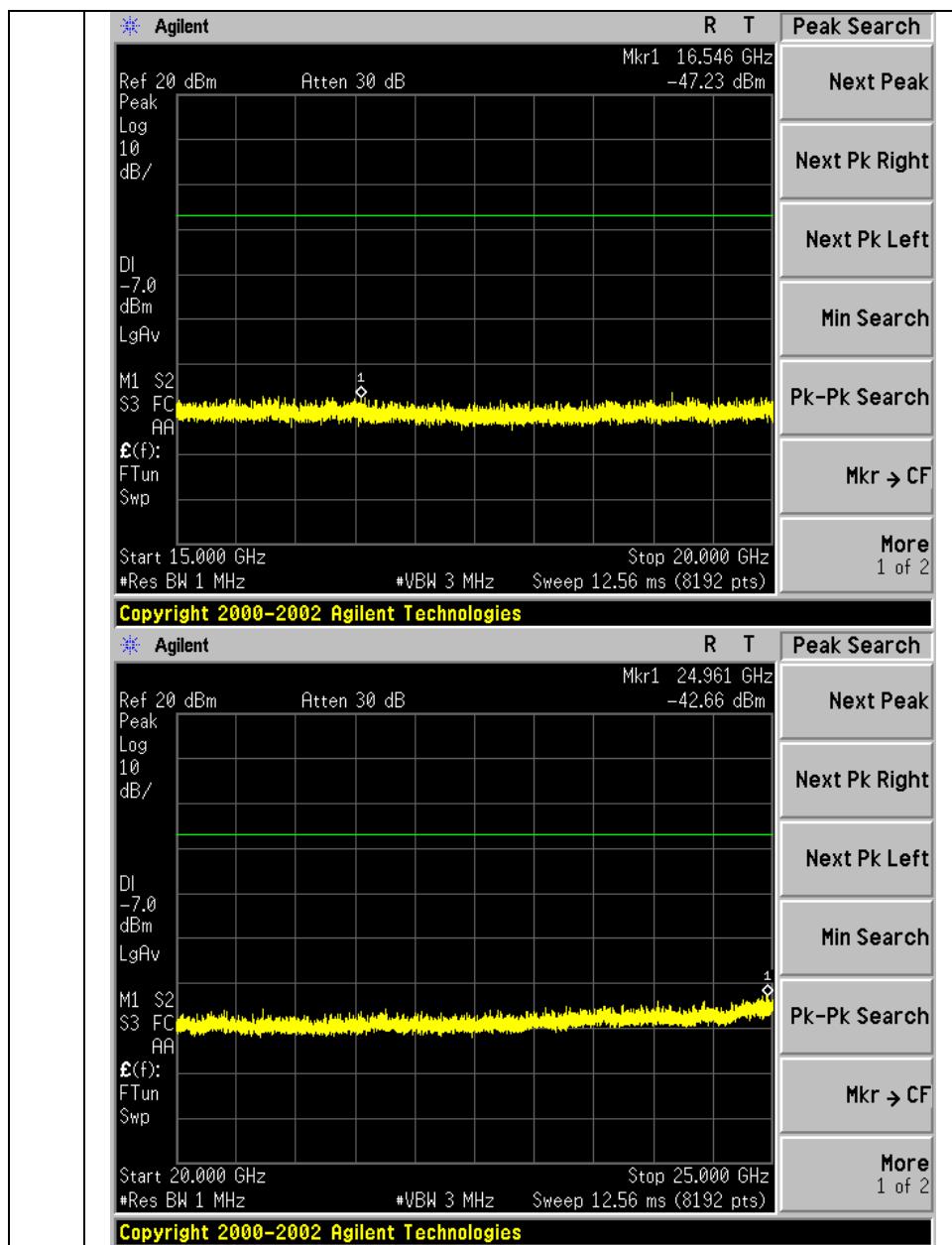


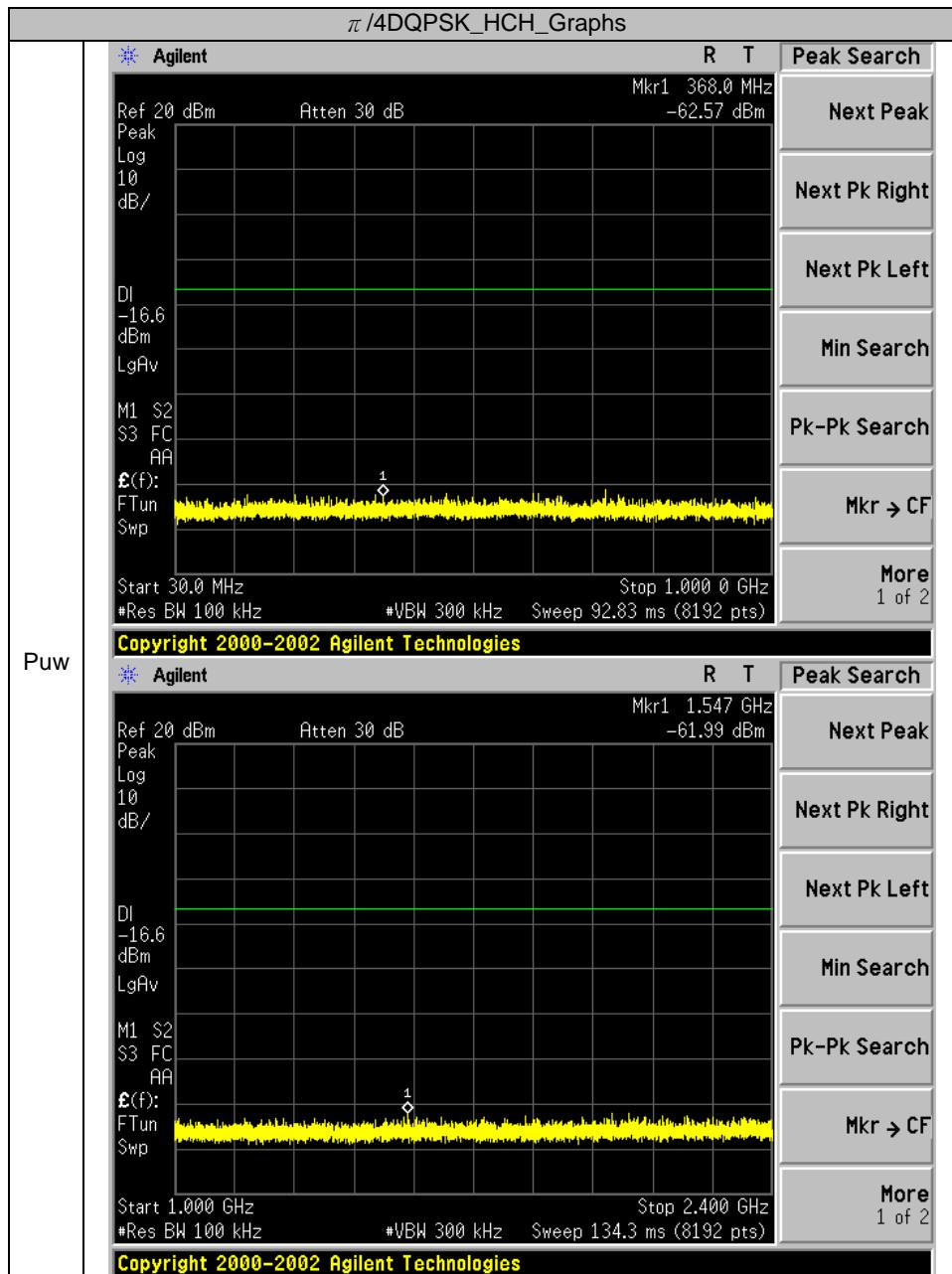


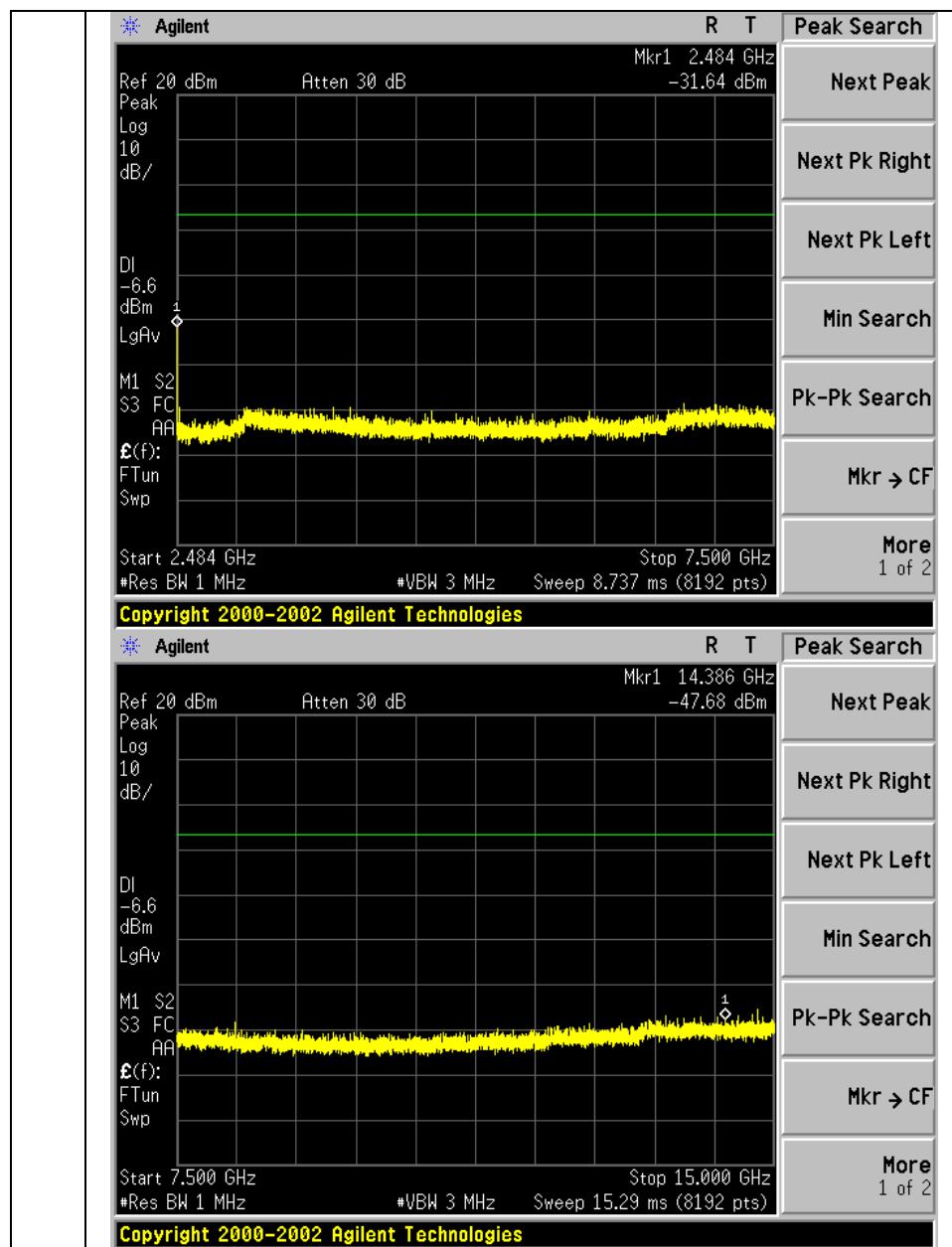


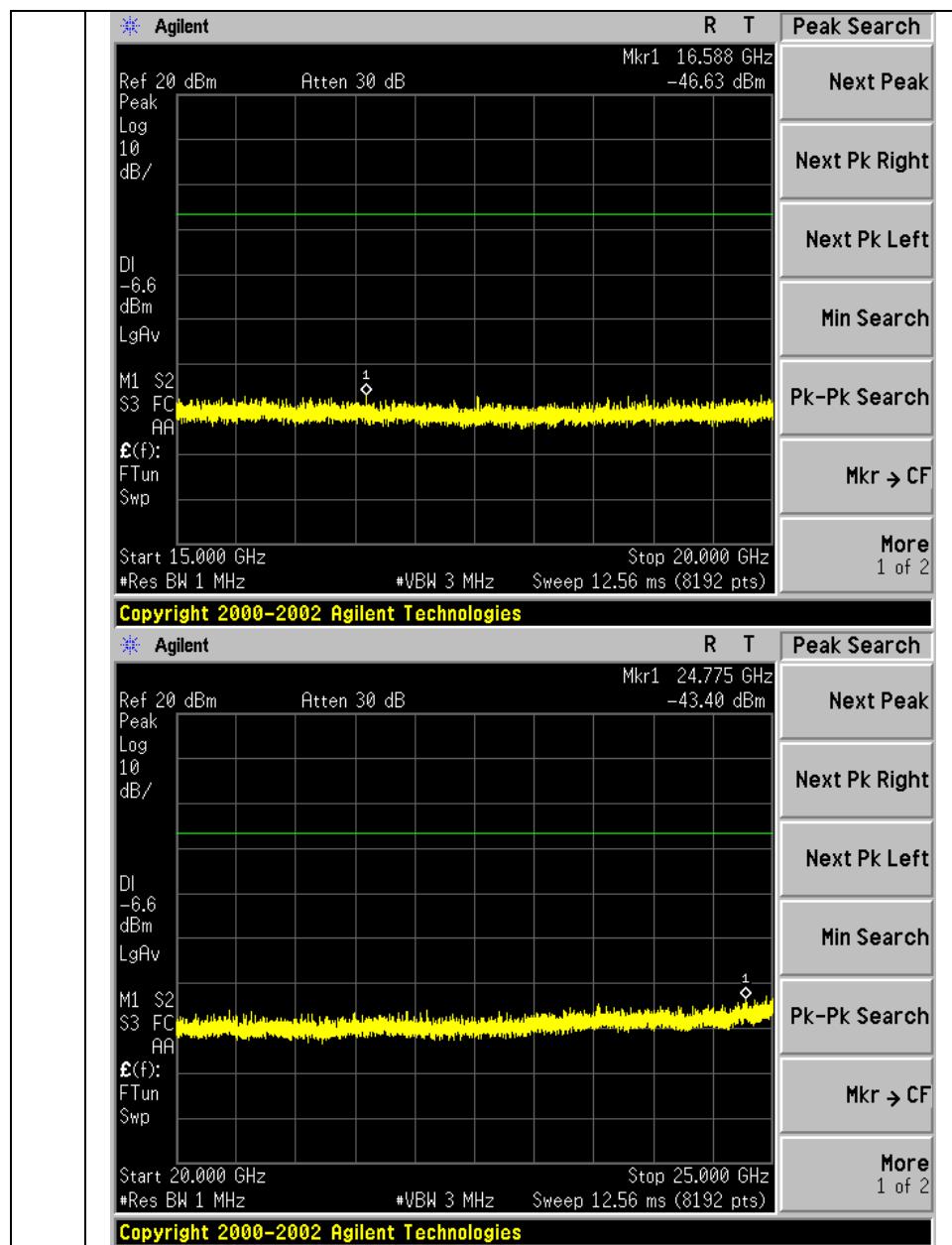


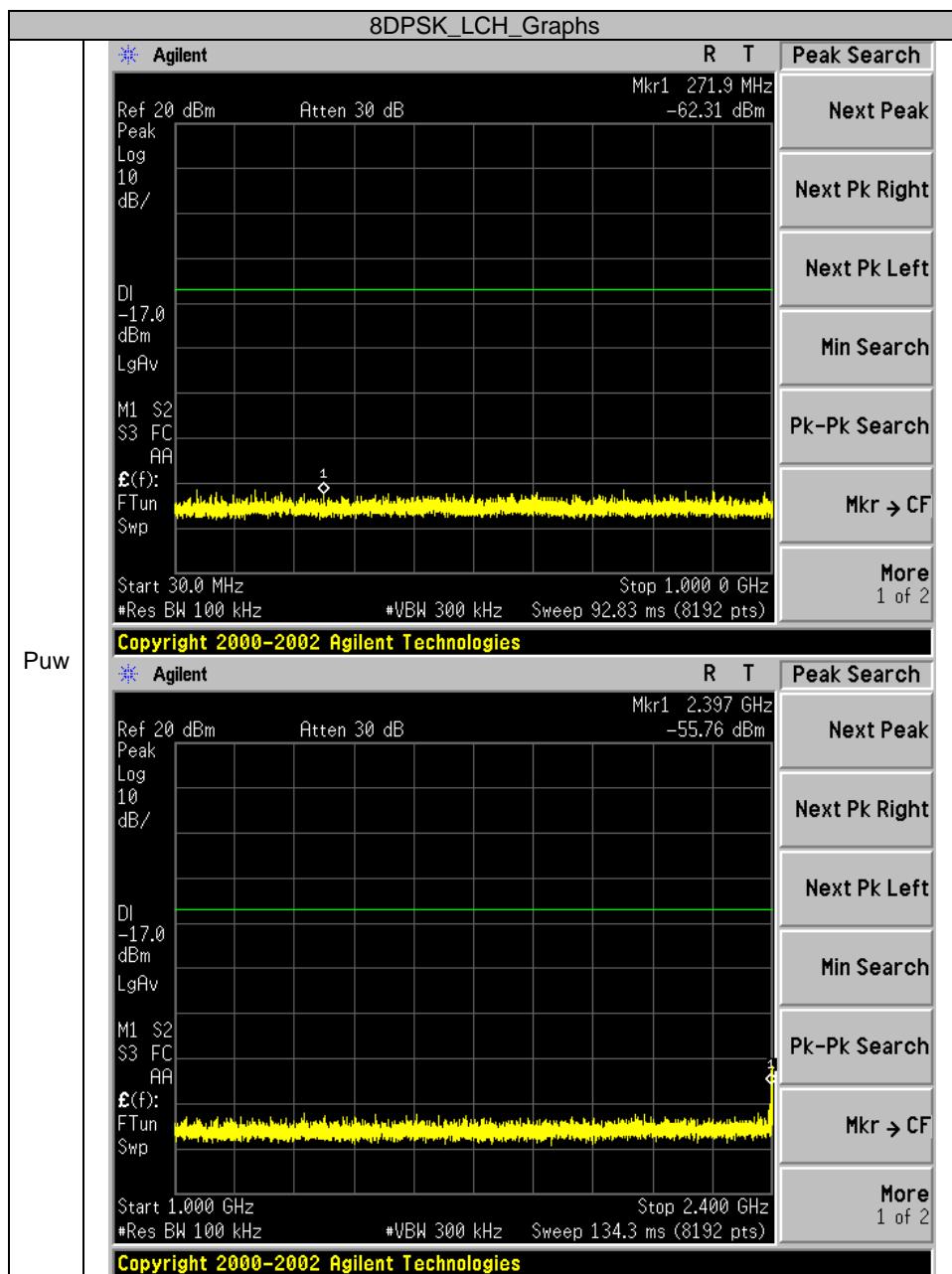


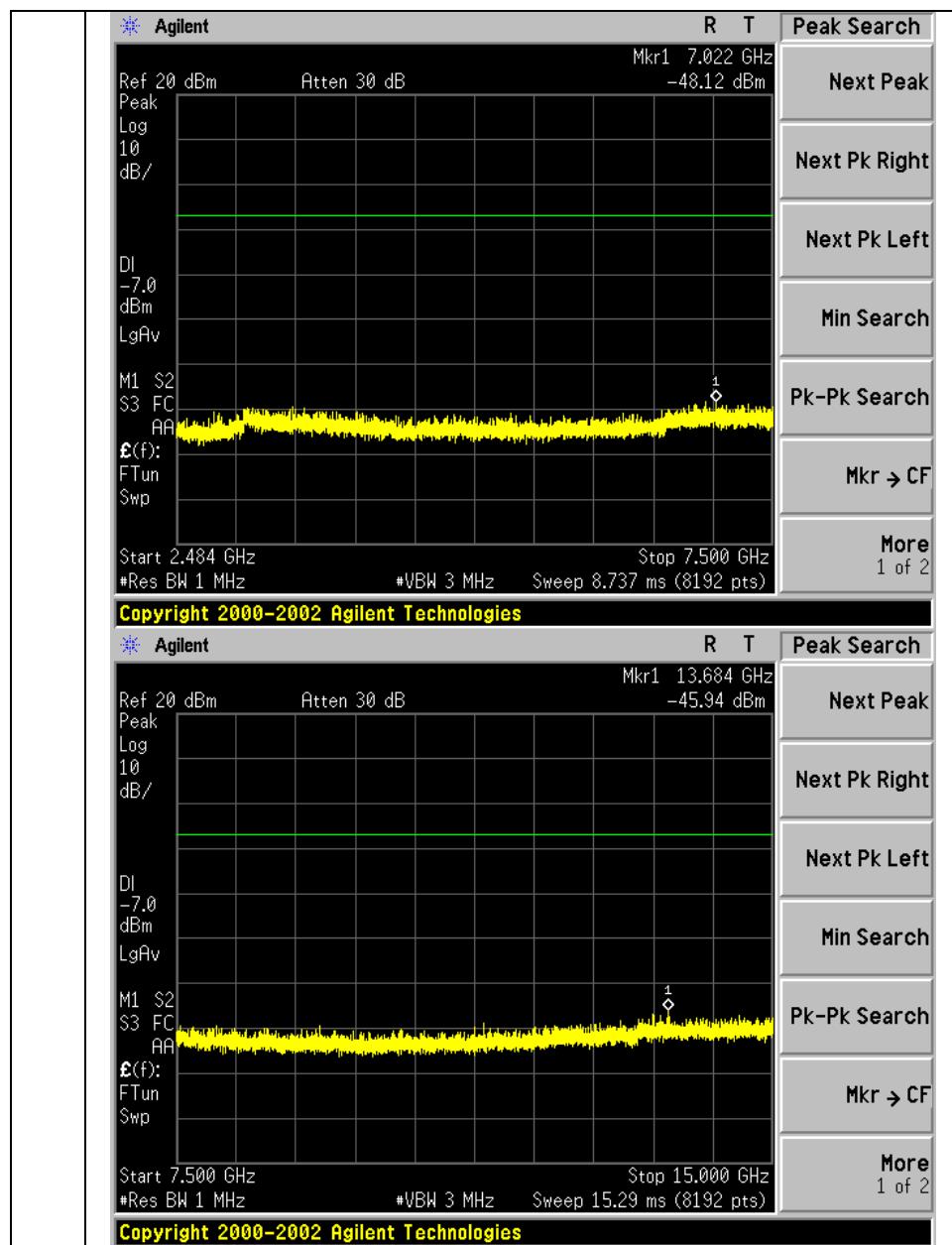


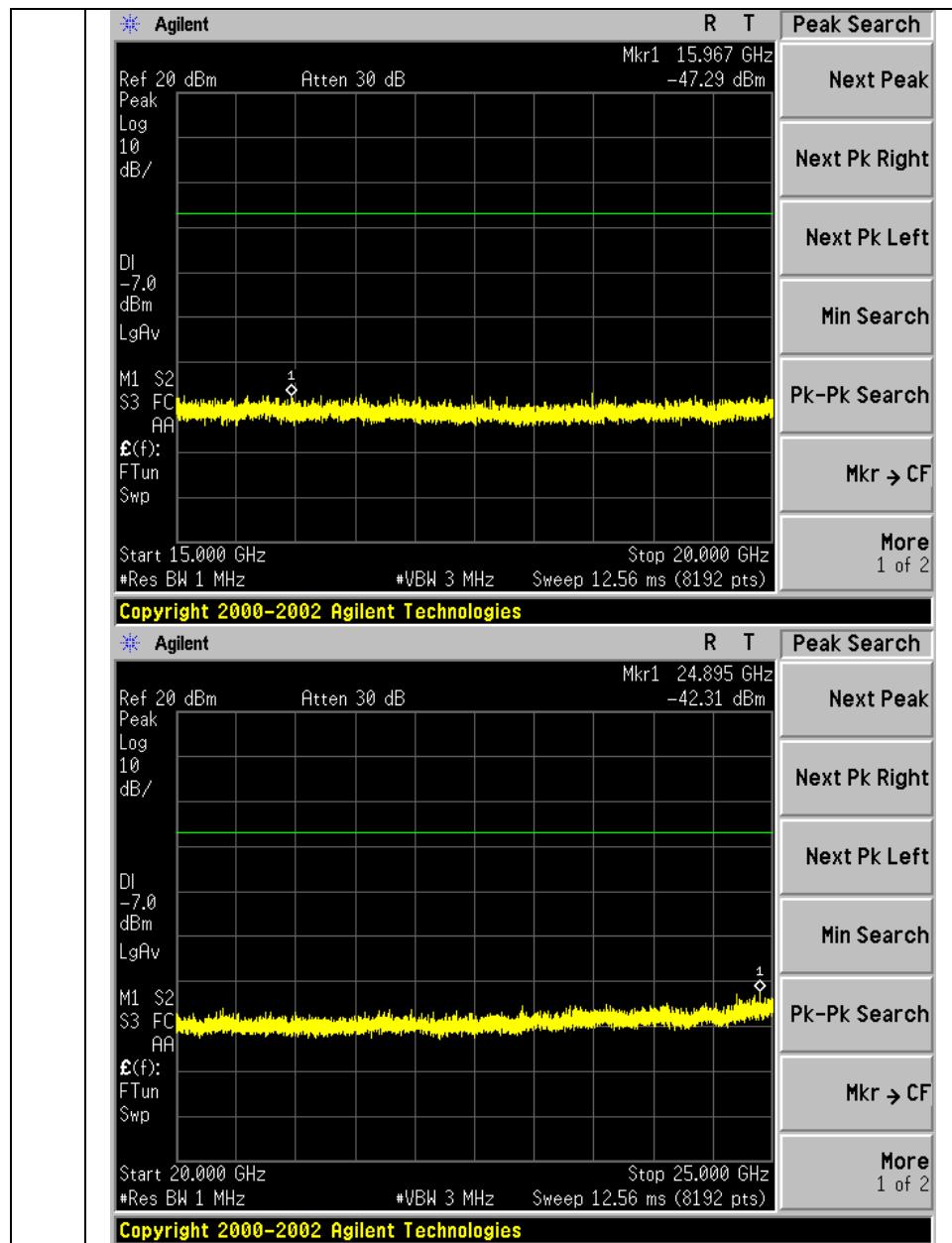


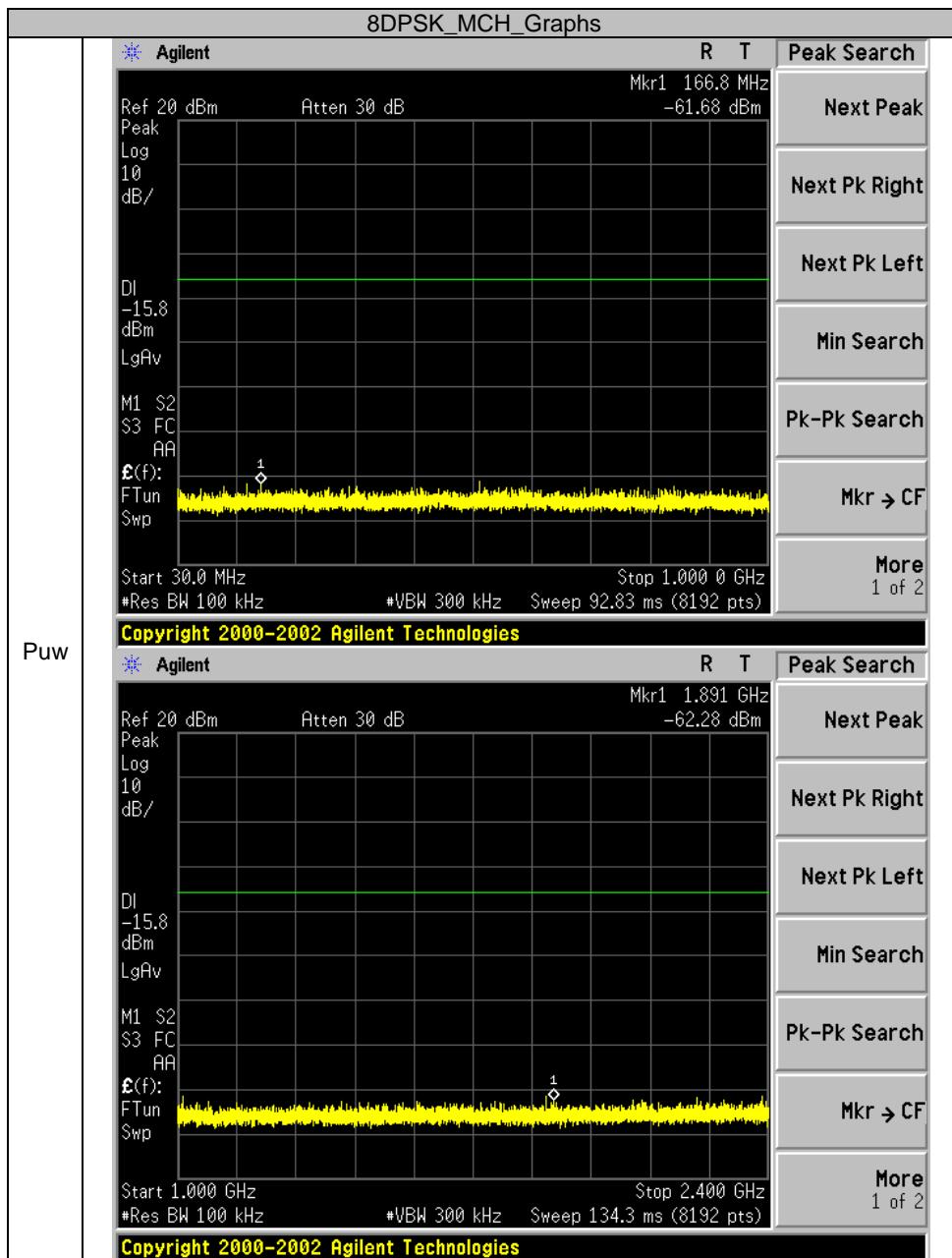


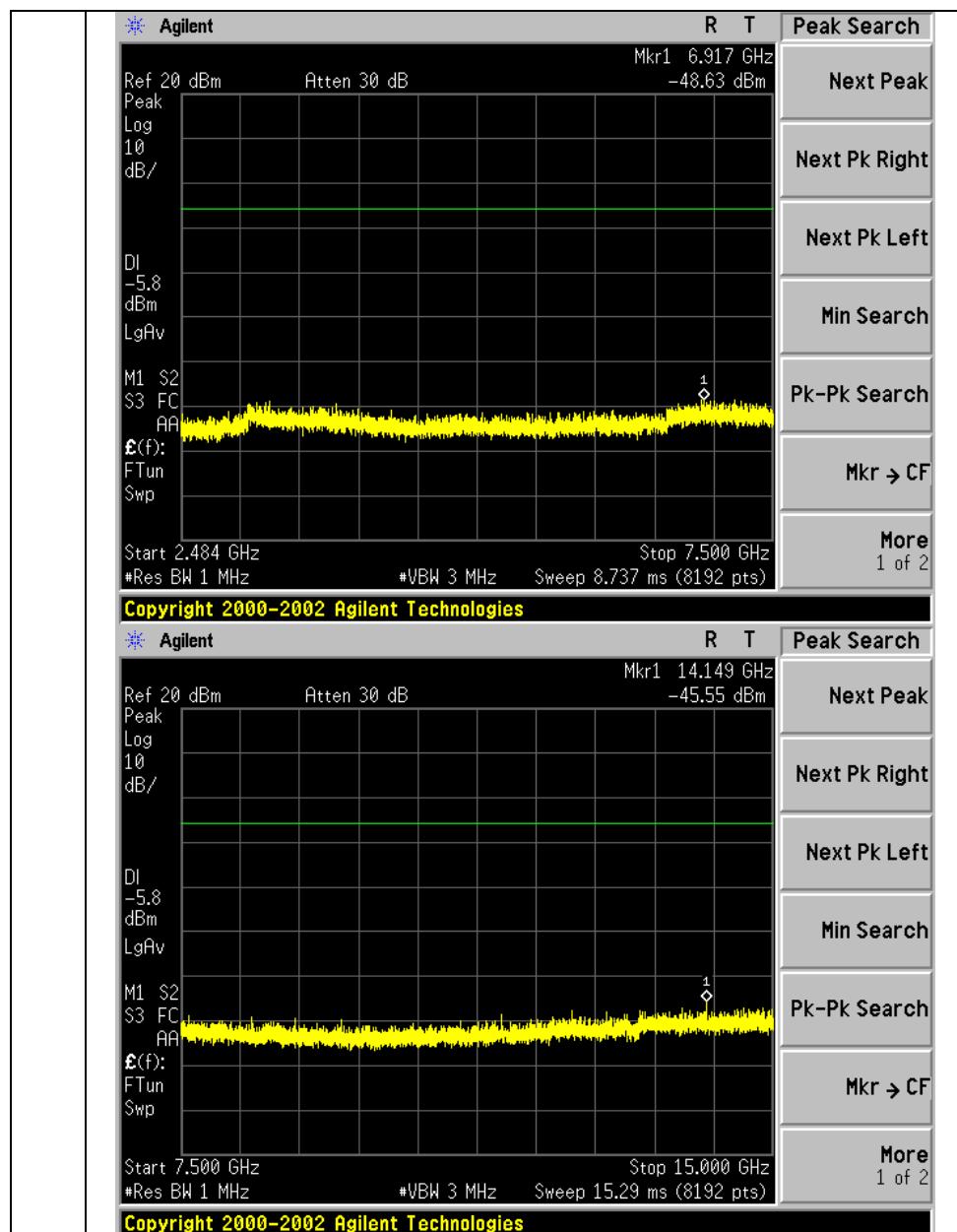


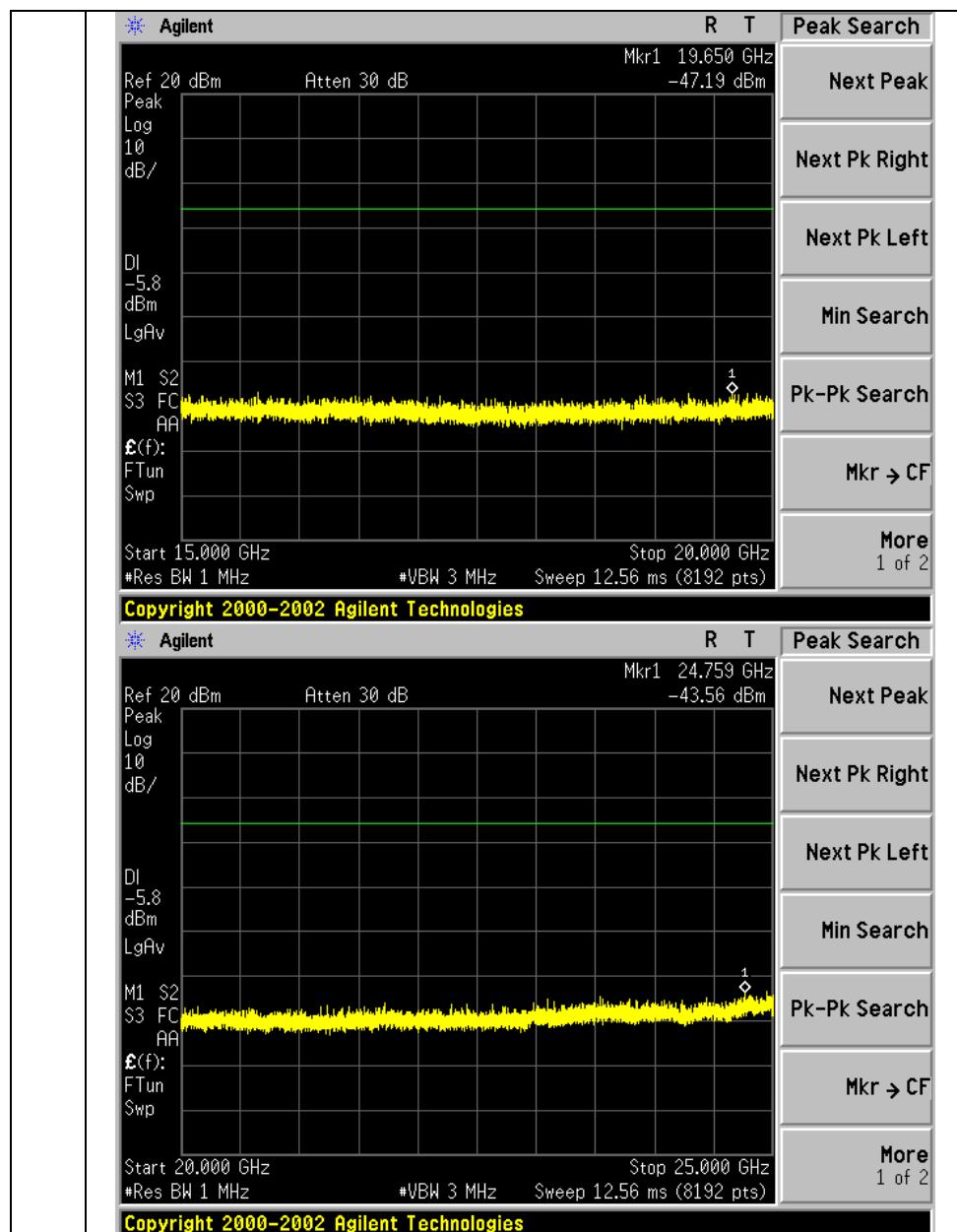


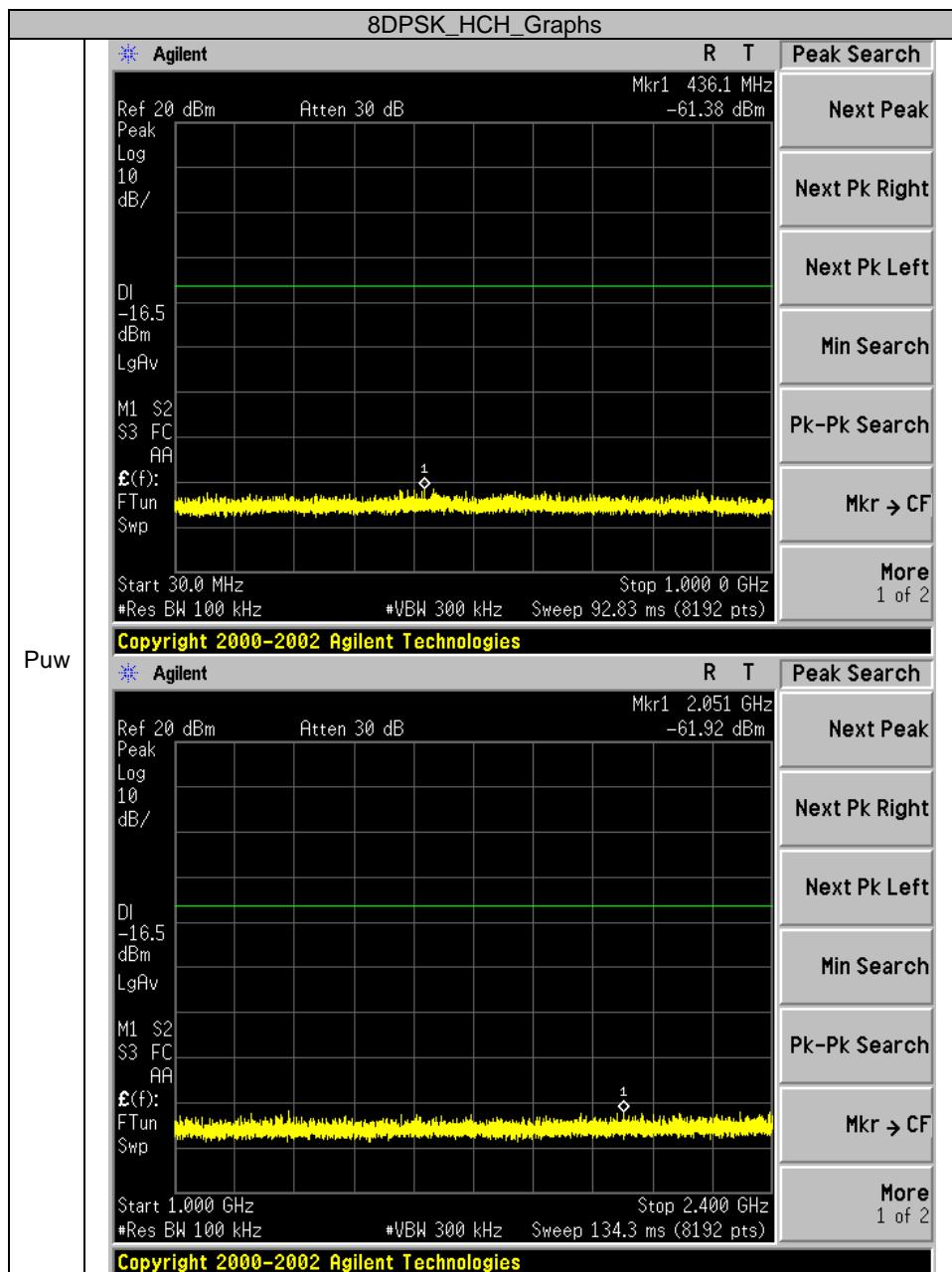


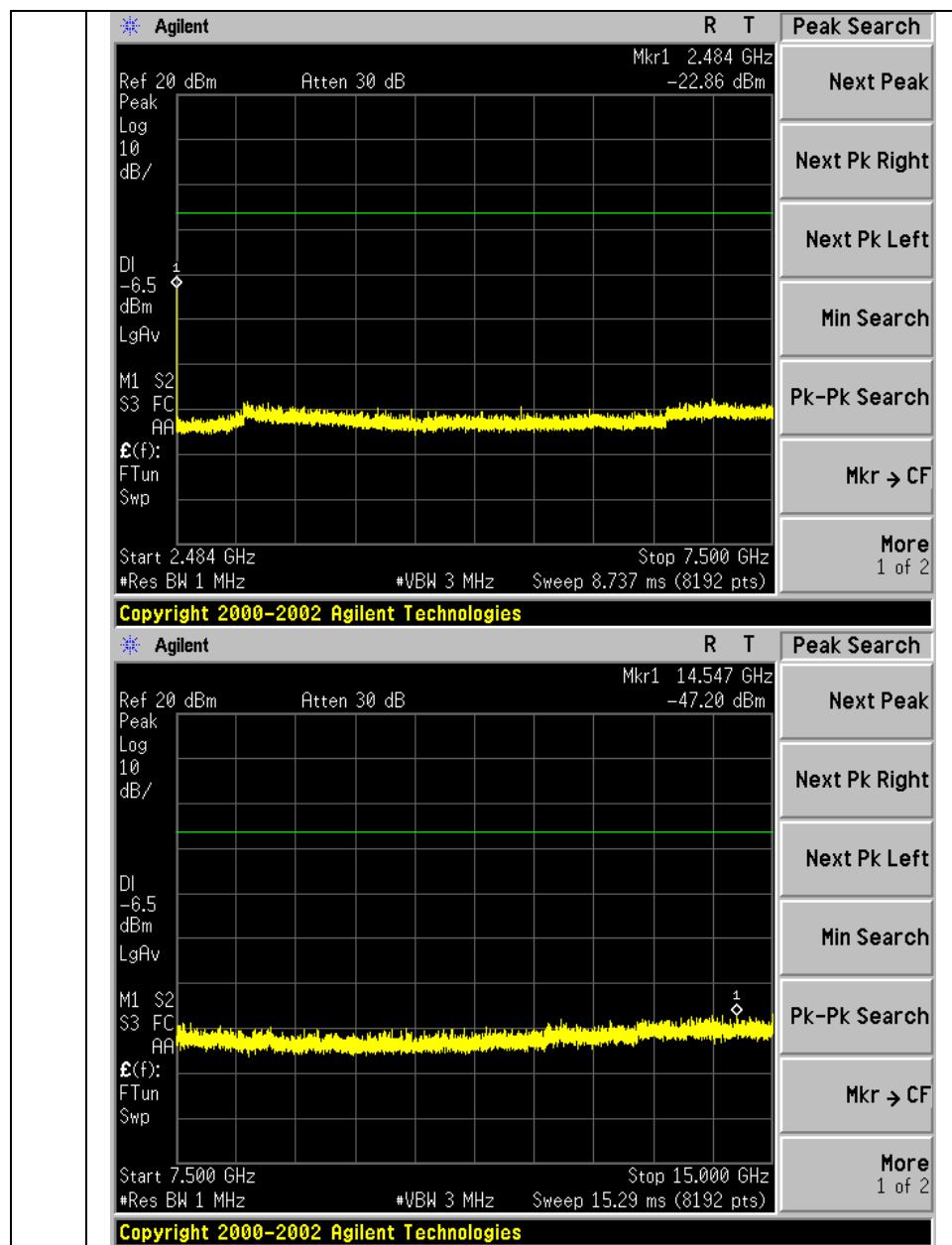


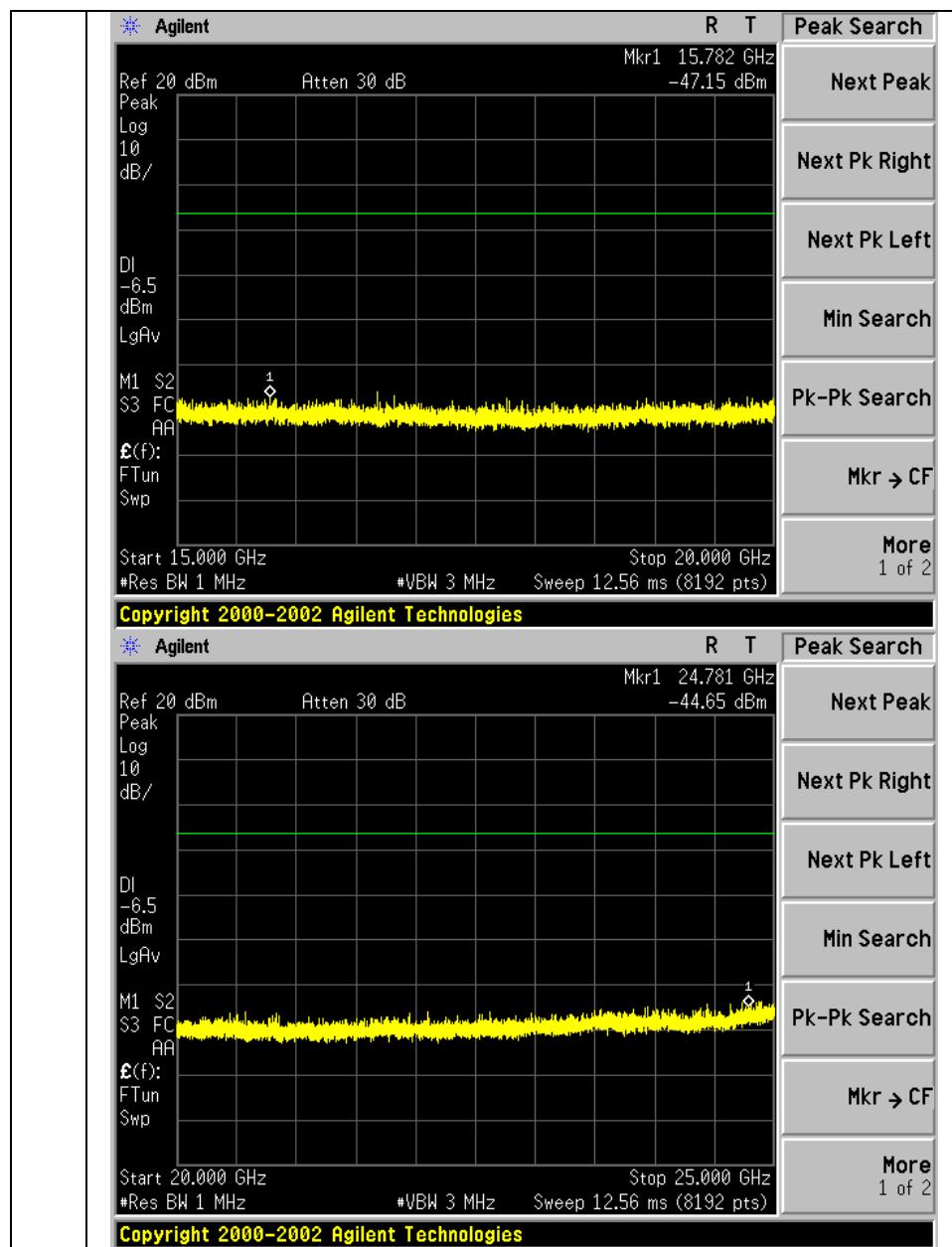












## 10. RADIATED EMISSION

### 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.
3. 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.

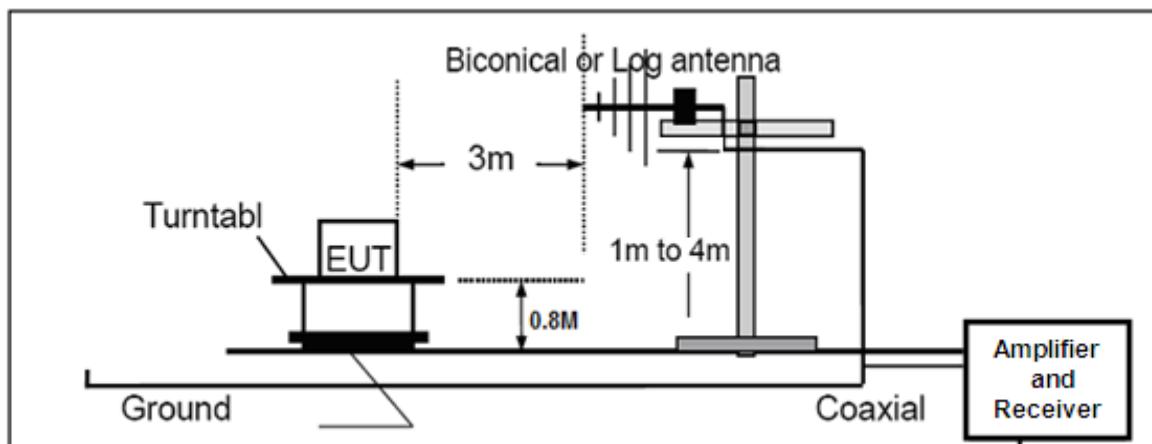
The following table is the setting of spectrum analyzer and receiver.

<b>Spectrum Parameter</b>	<b>Setting</b>
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

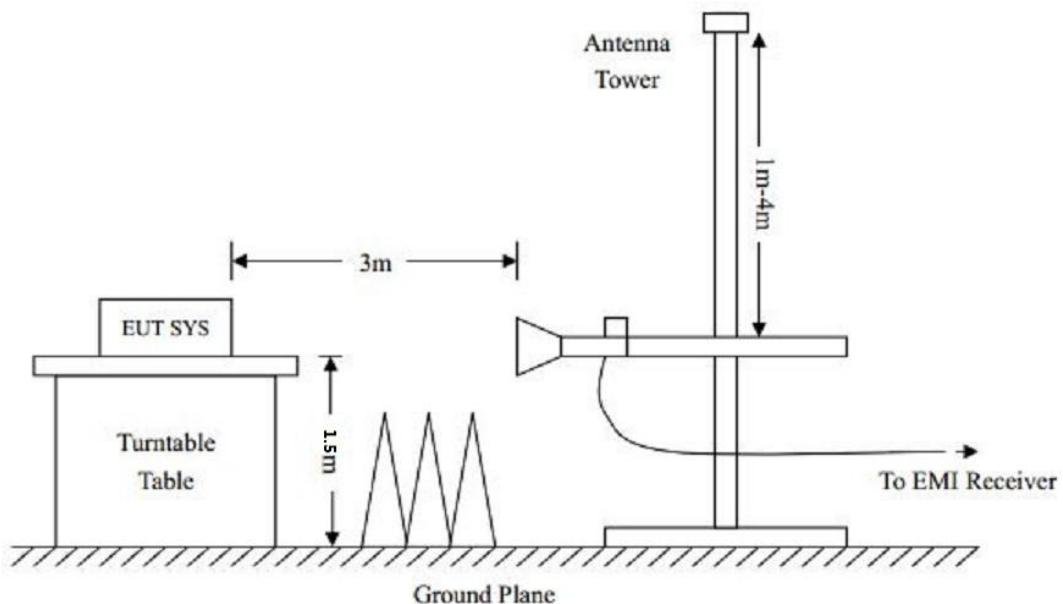
<b>Receiver Parameter</b>	<b>Setting</b>
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

## 10.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

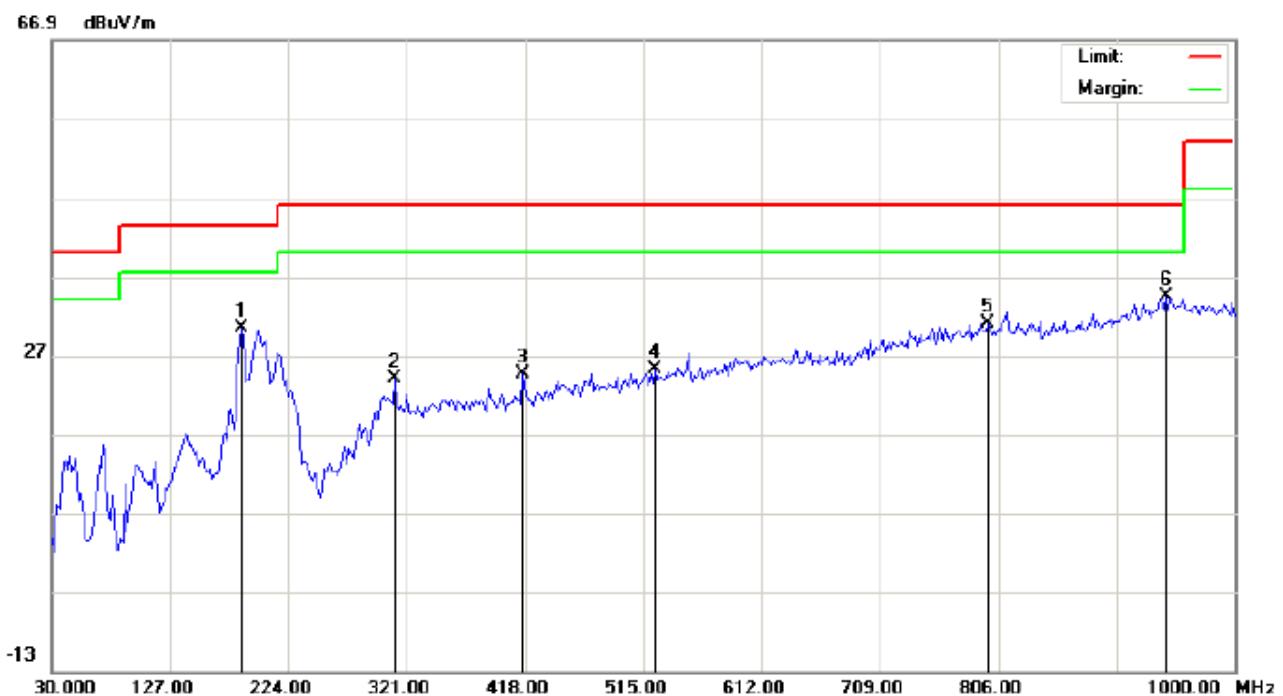


### 10.3. TEST RESULT

## RADIATED EMISSION BELOW 30MHz

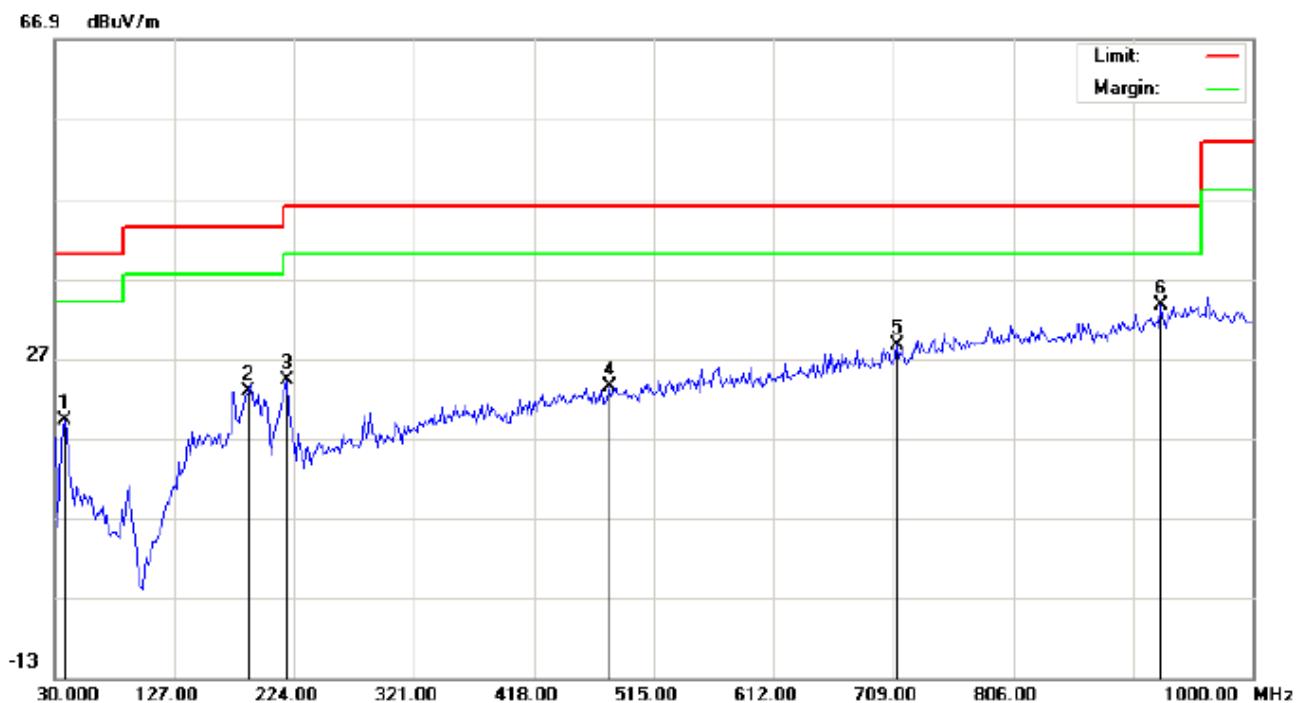
No emission found between lowest internal used/generated frequencies to 30MHz.

## RADIATED EMISSION BELOW 1GHZ



Site: site #1 Polarization: **Horizontal** Temperature: 25.2  
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 56.1 %  
EUT: Mobile Phone Distance: 3m  
M/N: SMD-1770A  
Mode: Low channel TX  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		185.2000	19.04	11.31	30.35	43.50	-13.15	peak			
2		311.3000	7.91	16.16	24.07	46.00	-21.93	peak			
3		416.3833	5.07	19.57	24.64	46.00	-21.36	peak			
4		524.7000	3.31	21.80	25.11	46.00	-20.89	peak			
5		797.9167	3.67	27.29	30.96	46.00	-15.04	peak			
6	*	943.4167	4.62	29.82	34.44	46.00	-11.56	peak			

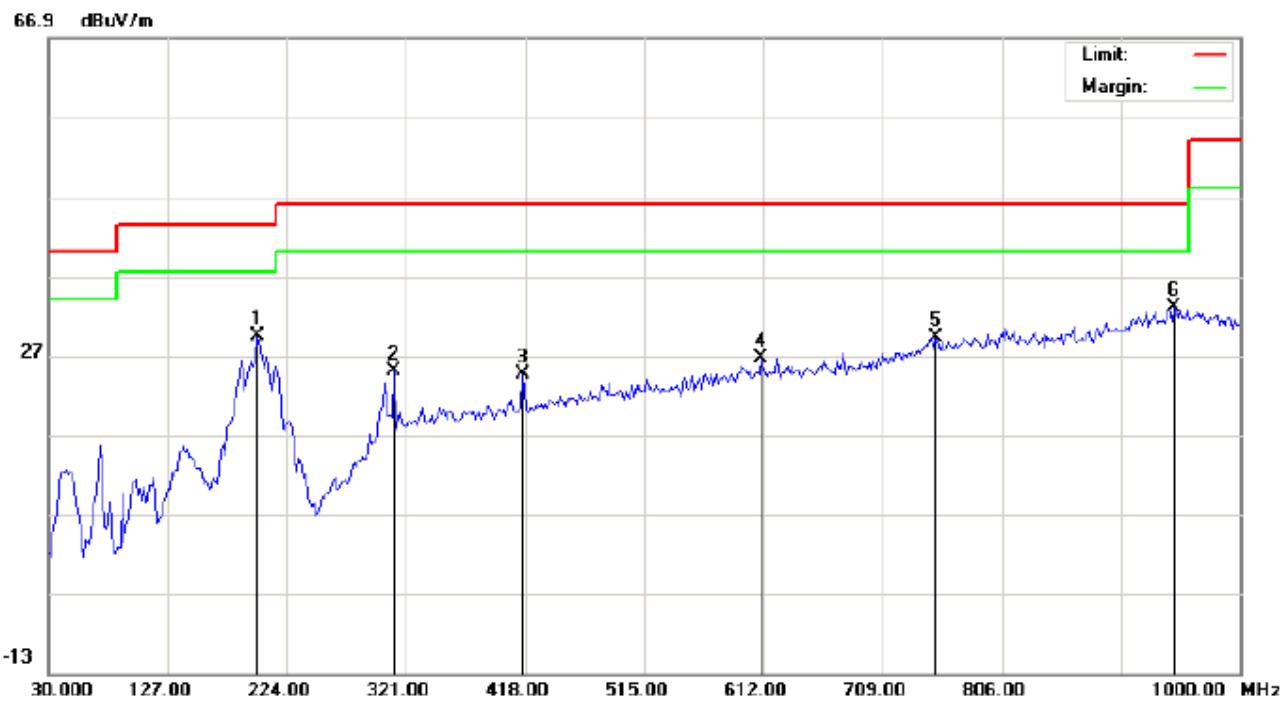


Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT: Mobile Phone  
M/N: SMD-1770A  
Mode: Low channel TX  
Note:

Polarization: *Vertical*  
Power: AC 120V/60Hz  
Distance: 3m

Temperature: 25.2  
Humidity: 56.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		38.0833	12.85	6.39	19.24	40.00	-20.76	peak			
2		186.8167	10.42	12.34	22.76	43.50	-20.74	peak			
3		217.5333	13.47	10.72	24.19	46.00	-21.81	peak			
4		479.4333	2.49	20.91	23.40	46.00	-22.60	peak			
5		712.2333	2.98	25.54	28.52	46.00	-17.48	peak			
6	*	925.6333	4.19	29.32	33.51	46.00	-12.49	peak			



Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT: Mobile Phone  
M/N: SMD-1770A  
Mode: Middle channel TX  
Note:

Polarization: **Horizontal**

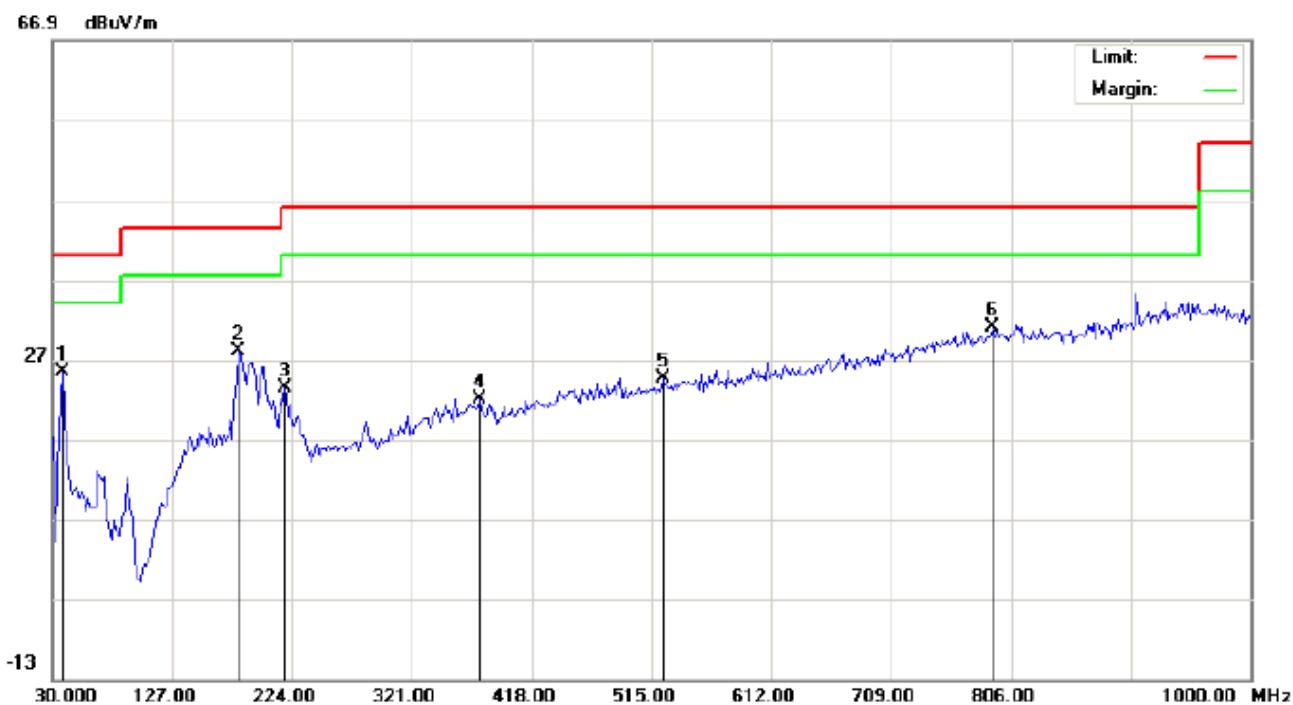
Power: AC 120V/60Hz

Temperature: 25.2

Humidity: 56.1 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		199.7500	17.36	11.99	29.35	43.50	-14.15	peak			
2		311.3000	8.90	16.16	25.06	46.00	-20.94	peak			
3		416.3833	5.02	19.57	24.59	46.00	-21.41	peak			
4		610.3832	2.78	23.75	26.53	46.00	-19.47	peak			
5		752.6500	2.59	26.67	29.26	46.00	-16.74	peak			
6	*	946.6500	3.01	29.91	32.92	46.00	-13.08	peak			



Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT: Mobile Phone  
M/N: SMD-1770A  
Mode: Middle channel TX  
Note:

Polarization: **Vertical**

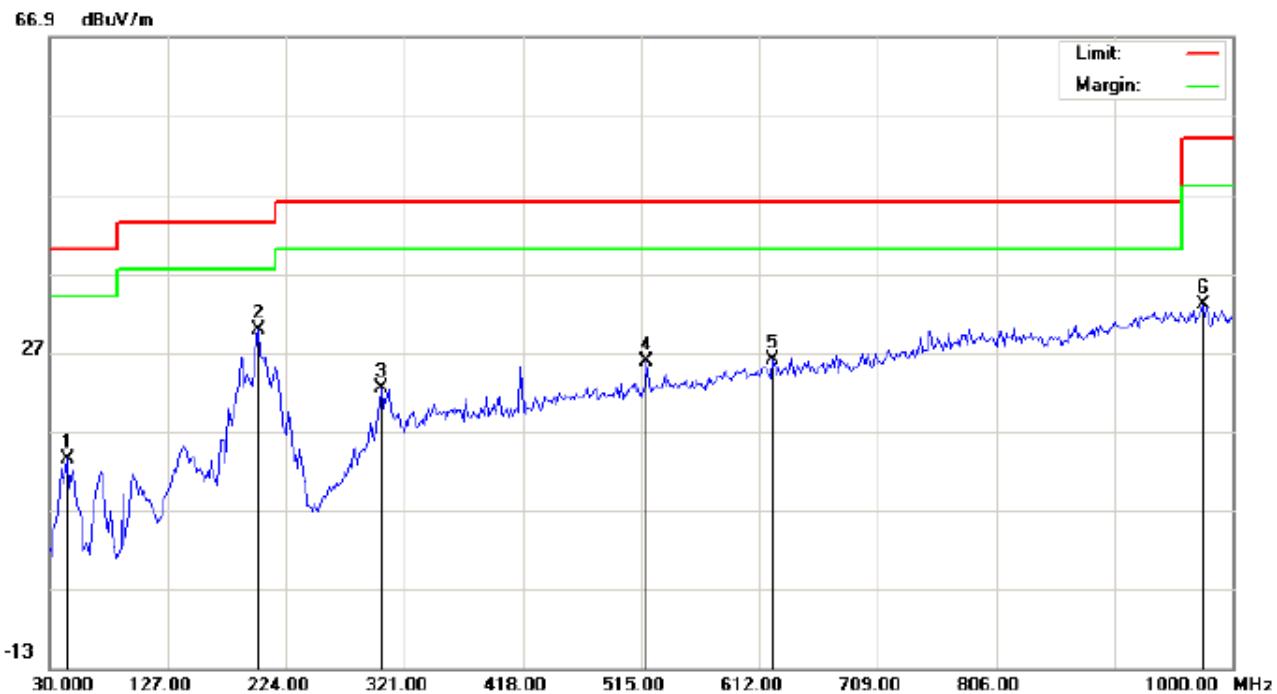
Power: AC 120V/60Hz

Temperature: 25.2

Humidity: 56.1 %

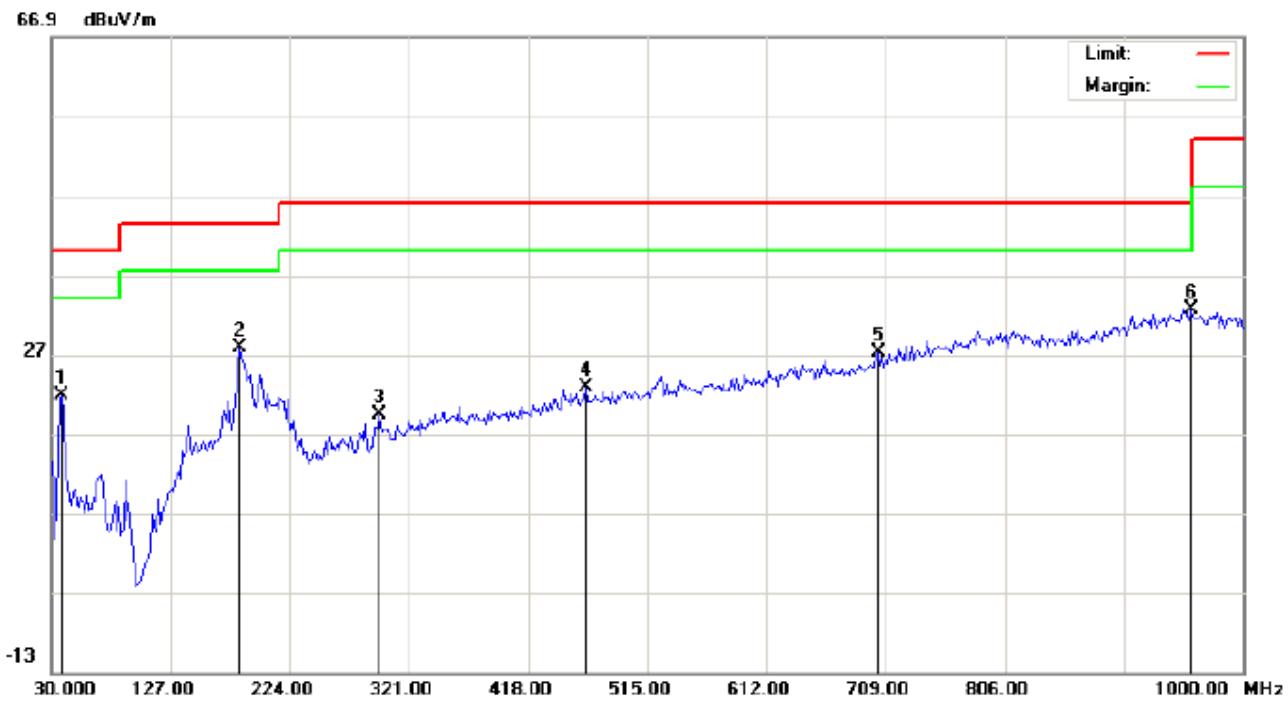
Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	38.0833	18.96	6.39	25.35	40.00	-14.65	peak			
2		180.3500	13.99	13.98	27.97	43.50	-15.53	peak			
3		217.5333	12.67	10.72	23.39	46.00	-22.61	peak			
4		375.9667	3.16	18.91	22.07	46.00	-23.93	peak			
5		524.7000	2.85	21.80	24.65	46.00	-21.35	peak			
6		791.4500	3.77	27.20	30.97	46.00	-15.03	peak			



Site: site #1 Polarization: *Horizontal* Temperature: 25.2  
 Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 56.1 %  
 EUT: Mobile Phone Distance: 3m  
 M/N: SMD-1770A  
 Mode: High channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		44.5500	1.88	11.60	13.48	40.00	-26.52	peak			
2	*	201.3667	18.01	11.86	29.87	43.50	-13.63	peak			
3		301.6000	6.95	15.52	22.47	46.00	-23.53	peak			
4		519.8500	4.15	21.67	25.82	46.00	-20.18	peak			
5		623.3167	2.24	23.79	26.03	46.00	-19.97	peak			
6		975.7500	3.19	29.75	32.94	54.00	-21.06	peak			



Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT: Mobile Phone  
M/N: SMD-1770A  
Mode: High channel TX  
Note:

Polarization: *Vertical*  
Power: AC 120V/60Hz  
Distance: 3m

Temperature: 25.2  
Humidity: 56.1 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		38.0833	15.33	6.39	21.72	40.00	-18.28	peak			
2		183.5833	14.71	13.16	27.87	43.50	-15.63	peak			
3		296.7500	4.17	15.31	19.48	46.00	-26.52	peak			
4		464.8833	2.06	20.75	22.81	46.00	-23.19	peak			
5		702.5333	1.99	25.26	27.25	46.00	-18.75	peak			
6	*	957.9667	2.67	29.92	32.59	46.00	-13.41	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.

RADIATED EMISSION TEST- (ABOVE 1GHZ)

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type	Comment
Low Channel (2402 MHz)							
4804.264	63.44	-3.62	59.82	74	-14.18	Pk	Vertical
4804.272	42.15	-3.62	38.53	54	-15.47	AV	Vertical
7206.138	63.49	-0.9	62.59	74	-11.41	pk	Vertical
7206.156	41.54	-0.9	40.64	54	-13.36	AV	Vertical
4803.959	62.18	-3.64	58.54	74	-15.46	Pk	Horizontal
4803.964	42.37	-3.64	38.73	54	-15.27	AV	Horizontal
Mid Channel (2441 MHz)							
4882.128	62.43	-3.65	58.78	74	-15.22	Pk	Vertical
4882.094	41.69	-3.65	38.04	54	-15.96	AV	Vertical
7323.228	64.22	-0.82	63.4	74	-10.6	Pk	Vertical
7323.220	41.13	-0.82	40.31	54	-13.69	AV	Vertical
4882.096	66.19	-3.68	62.51	74	-11.49	Pk	Horizontal
4882.171	42.75	-3.68	39.07	54	-14.93	AV	Horizontal
High Channel (2480 MHz)							
4960.260	61.63	-3.59	58.04	74	-15.96	pk	Vertical
4960.325	44.28	-3.59	40.69	54	-13.31	AV	Vertical
4960.190	61.39	-3.59	57.8	74	-16.2	pk	Horizontal
4960.157	45.27	-3.59	41.68	54	-12.32	AV	Horizontal

Note:

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

Emission Level = Meter Reading + Factor

Margin = Emission Level - Limit

**RESULT: PASS**

## 11. BAND EDGE EMISSION

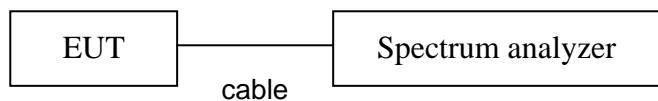
### 11.1. MEASUREMENT PROCEDURE

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



### 11.3. Radiated TEST RESULT

Frequency (MHz)	Meter Reading (dB $\mu$ V)	Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type	Comment
GFSK							
2399.9	63.14	-12.99	50.15	74	-23.85	peak	Vertical
2399.9	52.54	-12.99	39.55	54	-14.45	AVG	Vertical
2399.9	72.86	-12.99	59.87	74	-14.13	peak	Horizontal
2399.9	51.27	-12.99	38.28	54	-15.72	AVG	Horizontal
2483.6	73.31	-12.78	60.53	74	-13.47	peak	Vertical
2483.6	51.16	-12.78	38.38	54	-15.62	AVG	Vertical
2483.6	72.37	-12.78	59.59	74	-14.41	peak	Horizontal
2483.6	54.29	-12.78	41.51	54	-12.49	AVG	Horizontal
π/4-DQPSK							
2399.9	71.38	-12.99	58.39	74	-15.61	peak	Vertical
2399.9	51.65	-12.99	38.66	54	-15.34	AVG	Vertical
2399.9	72.96	-12.99	59.97	74	-14.03	peak	Horizontal
2399.9	55.73	-12.99	42.74	54	-11.26	AVG	Horizontal
2483.6	73.17	-12.78	60.39	74	-13.61	peak	Vertical
2483.6	52.31	-12.78	39.53	54	-14.47	AVG	Vertical
2483.6	76.49	-12.78	63.71	74	-10.29	peak	Horizontal
2483.6	51.45	-12.78	38.67	54	-15.33	AVG	Horizontal
8DPSK							
2399.9	75.28	-12.99	62.29	74	-11.71	peak	Vertical
2399.9	51.36	-12.99	38.37	54	-15.63	AVG	Vertical
2399.9	71.65	-12.99	58.66	74	-15.34	peak	Horizontal
2399.9	50.49	-12.99	37.5	54	-16.5	AVG	Horizontal
2483.6	72.54	-12.78	59.76	74	-14.24	peak	Vertical
2483.6	53.16	-12.78	40.38	54	-13.62	AVG	Vertical
2483.6	72.18	-12.78	59.4	74	-14.6	peak	Horizontal
2483.6	51.72	-12.78	38.94	54	-15.06	AVG	Horizontal

### RESULT: PASS

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

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

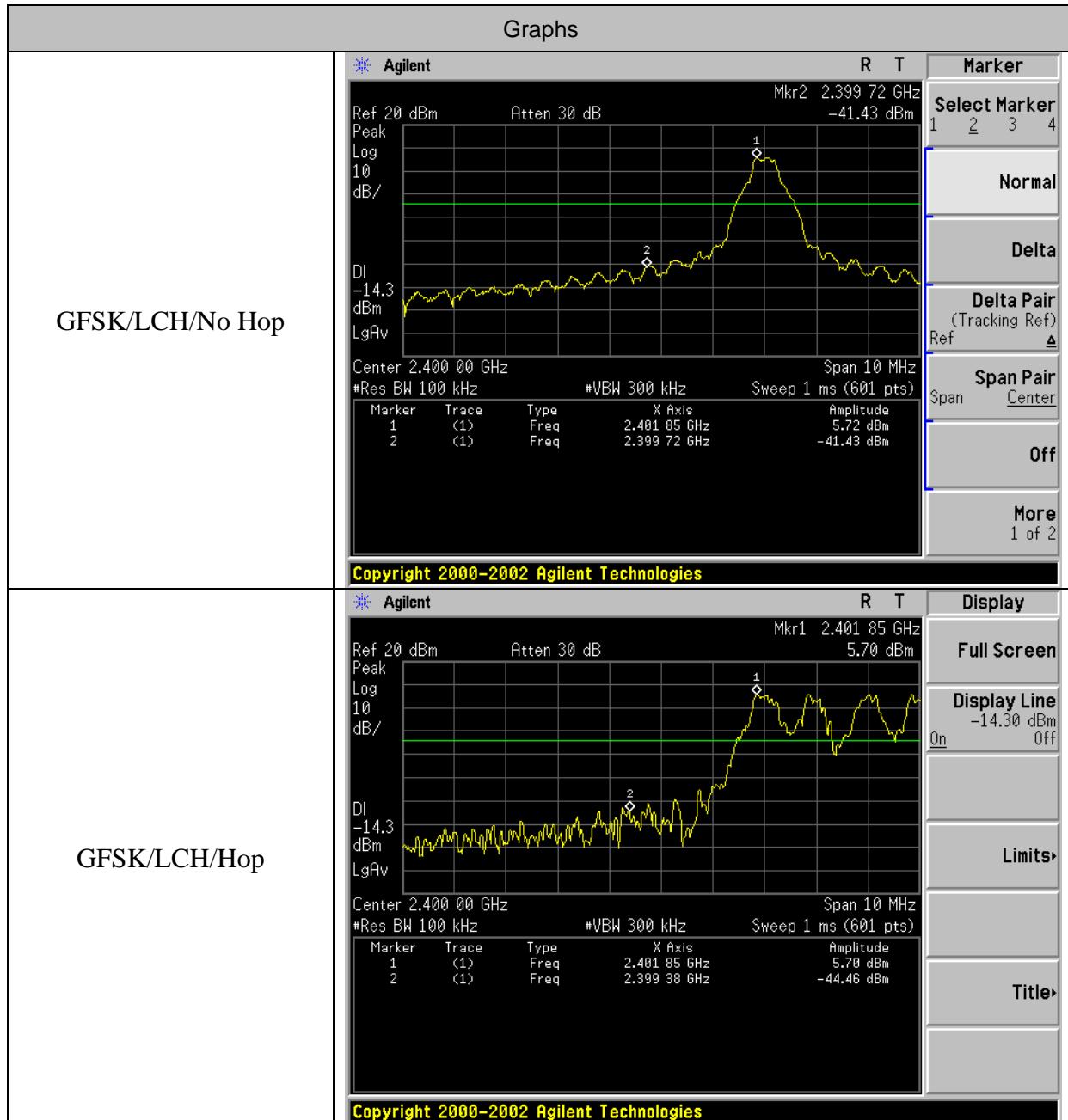
The “Factor” value can be calculated automatically by software of measurement system.

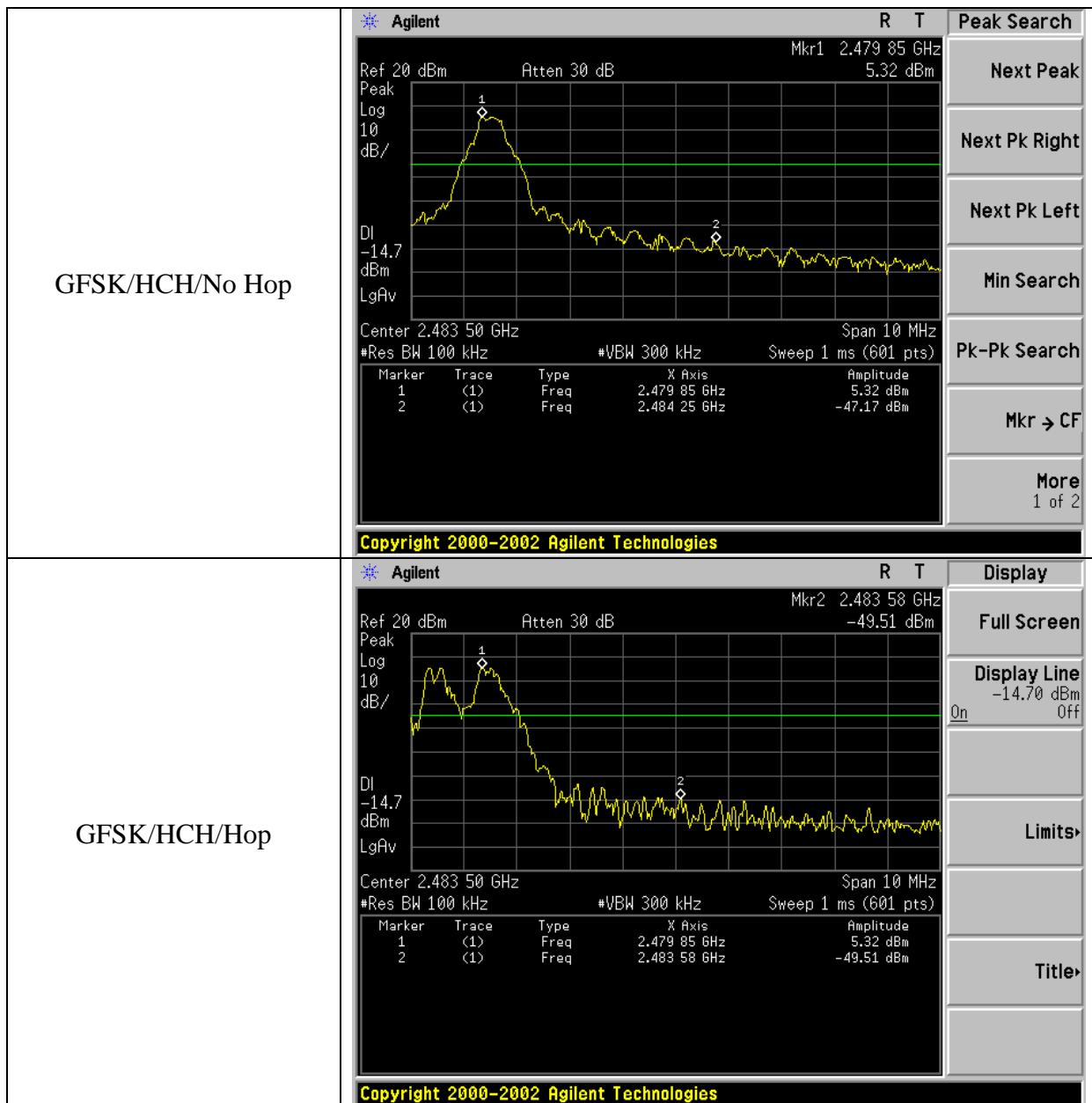
#### 11.4 Conducted TEST RESULT

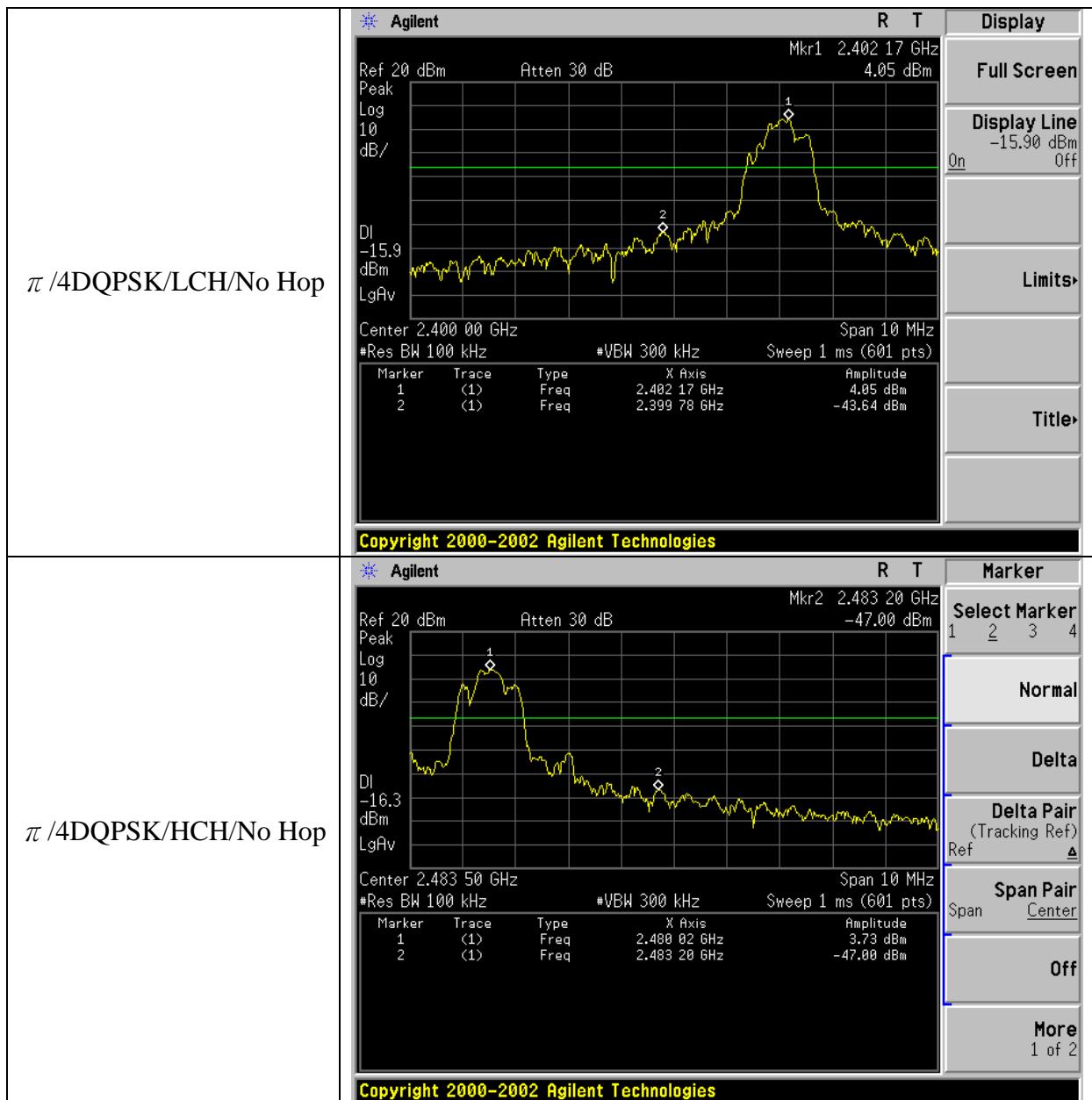
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBm]	Verdict
GFSK	LCH	2402	Off	-41.43	PASS
			On	-44.46	PASS
GFSK	HCH	2480	Off	-47.17	PASS
			On	-49.51	PASS
π/4DQPSK	LCH	2402	Off	-43.64	PASS
π/4DQPSK	HCH	2480	Off	-47.00	PASS
8DPSK	LCH	2402	Off	-45.82	PASS
8DPSK	HCH	2480	Off	-50.19	PASS

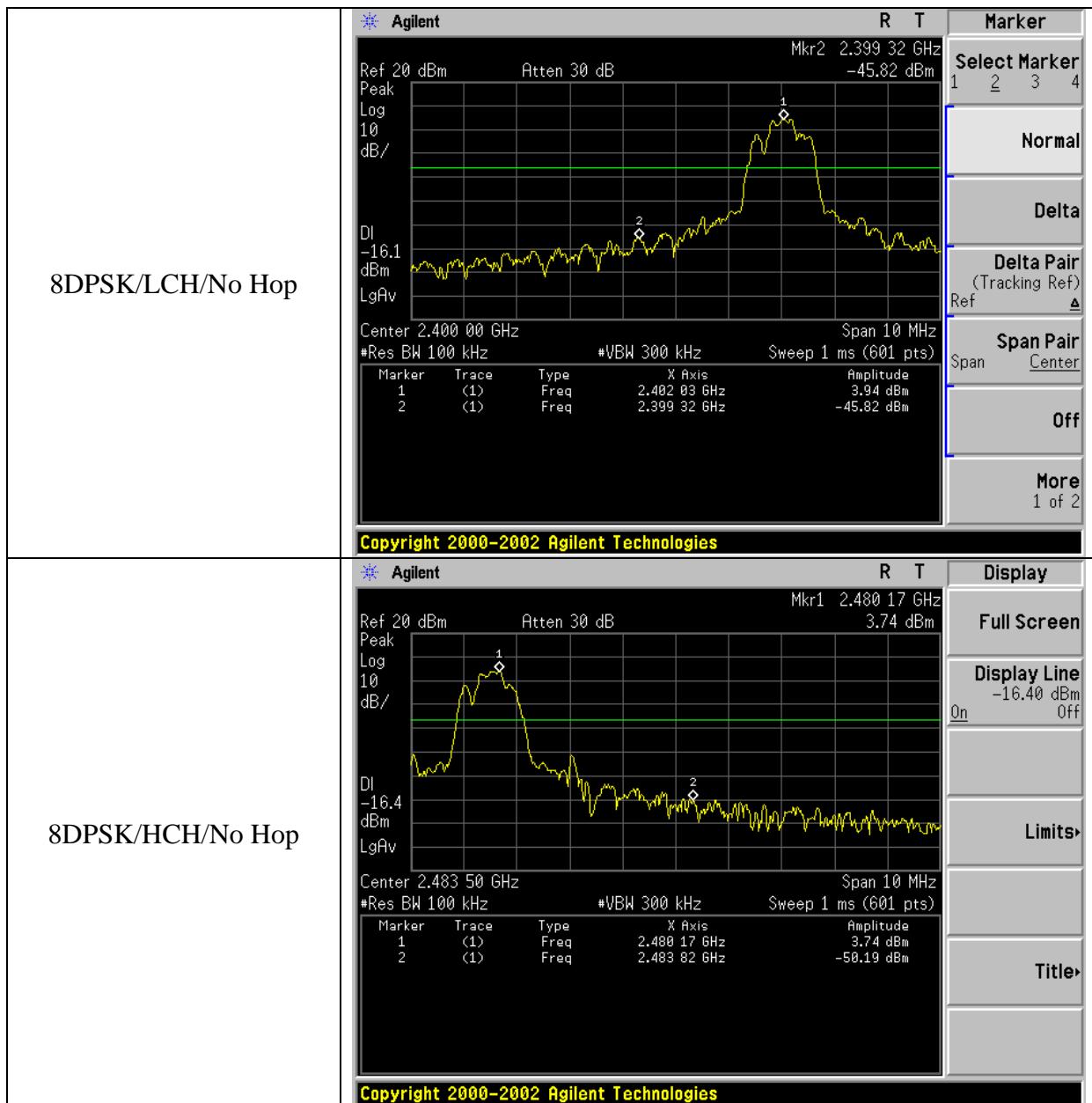
Note: All modes were tested, only the worst case record in the report.

## Test Graph









## 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

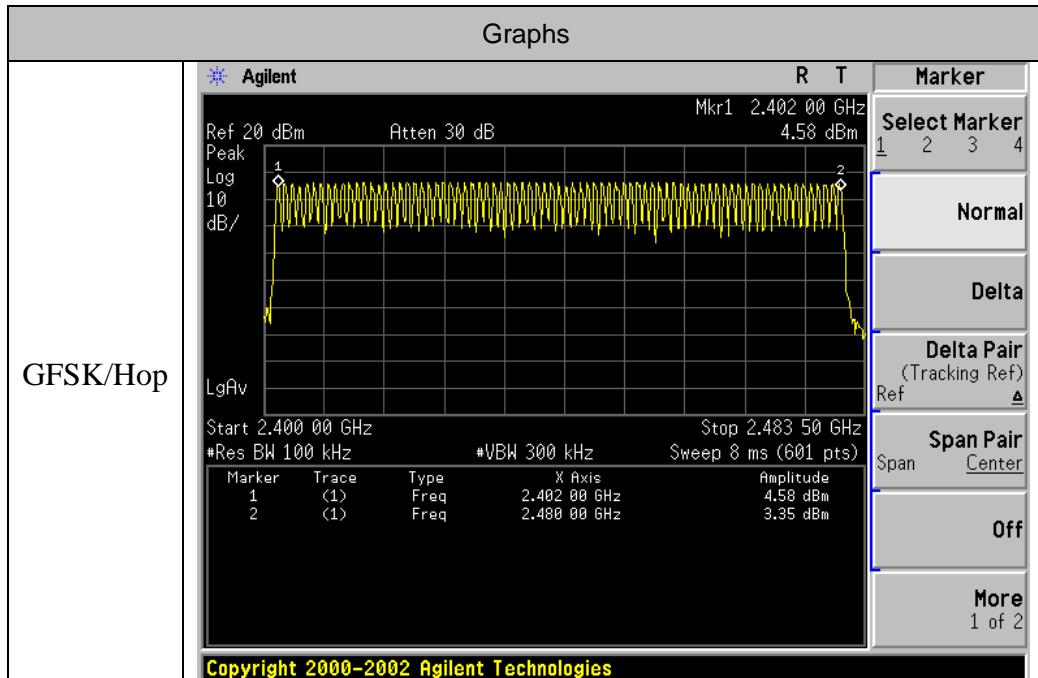
The same as described in section 6

### 12.4. LIMITS AND MEASUREMENT RESULT

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

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

### Test Graph



## 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 hopping 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

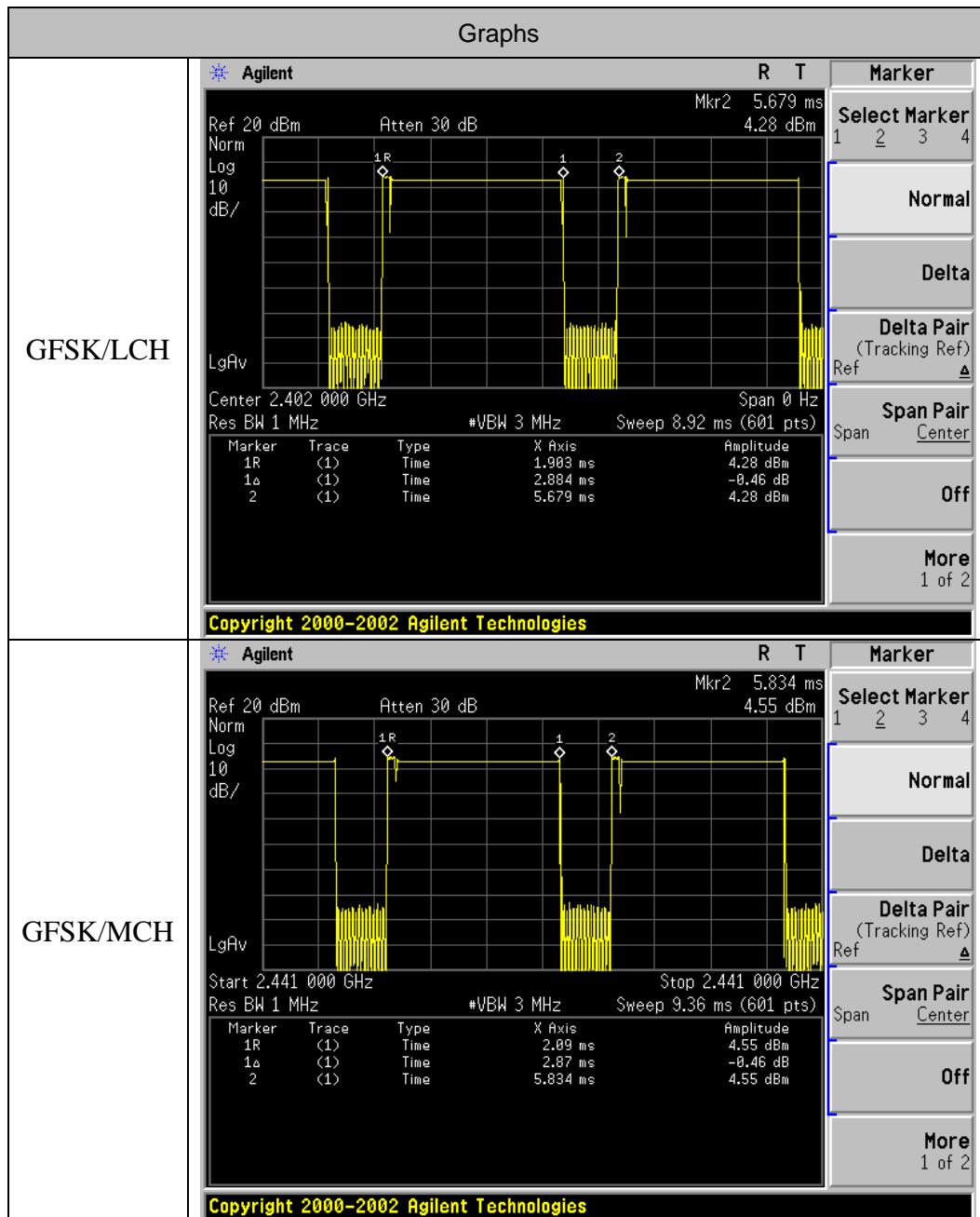
### 13.4. LIMITS AND MEASUREMENT RESULT

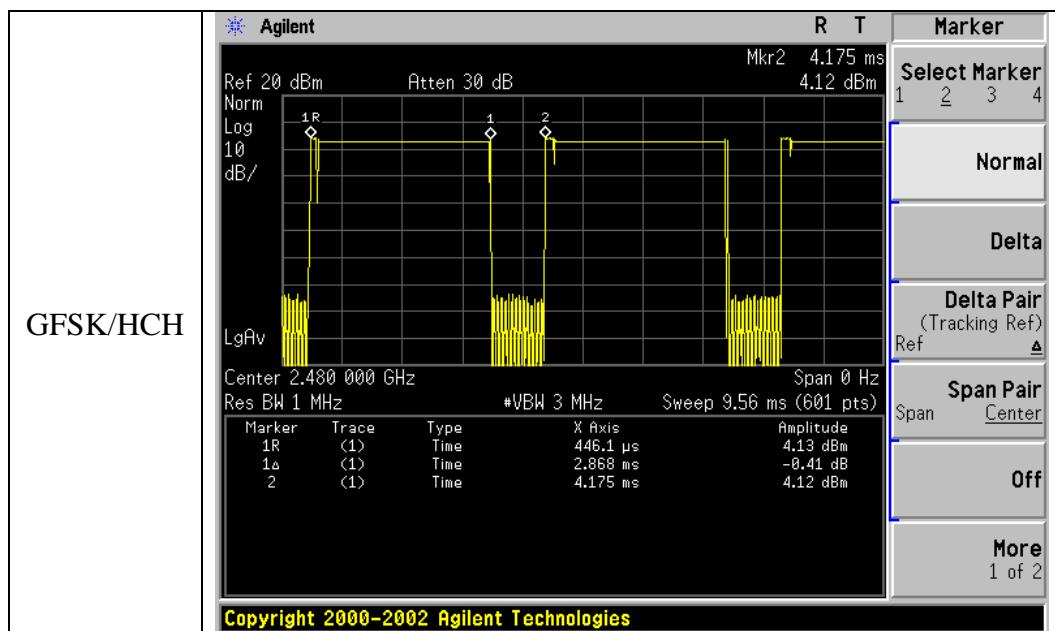
The Dwell Time=Burst Width\*Total Hops. The detailed calculations are showed as follows:

- The duration for dwell time calculation:  $0.4[\text{s}]*\text{hopping number}=0.4[\text{s}]*79[\text{ch}]=31.6[\text{s}*\text{ch}]$ ;
- 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  $1600/6=266.67[\text{ch}*\text{hop}/\text{s}]$
- The hops per second on one channel:  $266.67[\text{ch}*\text{hops}/\text{s}]/79[\text{ch}]=3.38[\text{hop}/\text{s}]$ ;
- The total hops for all channels within the dwell time calculation duration:  $3.38[\text{hop}/\text{s}]*31.6[\text{s}*\text{ch}]=106.67[\text{hop}*\text{ch}]$ ;
- The dwell time for all channels hopping:  $106.67[\text{hop}*\text{ch}]*\text{Burst Width [ms/hop/ch]}$ .

Mode	Channel.	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Verdict	Limit (ms)
GFSK	LCH	2.884	106.67	307.64	PASS	400
GFSK	MCH	2.870	106.67	306.14	PASS	400
GFSK	HCH	2.868	106.67	305.93	PASS	400

## Test Graph





## 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)  $\geq$  1% of the span Video (or Average) Bandwidth (VBW)  $\geq$  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

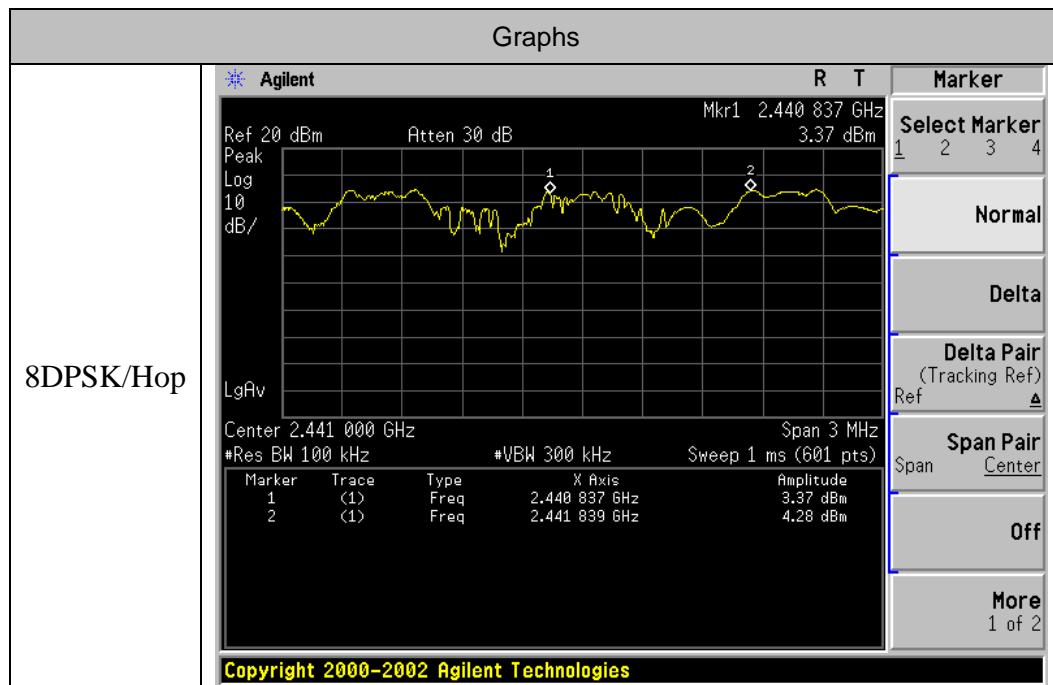
The same as described in section 6.3

### 14.4. LIMITS AND MEASUREMENT RESULT

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
8DPSK	Hop	1.002	PASS

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

## Test Graph



## 15. FCC LINE CONDUCTED EMISSION TEST

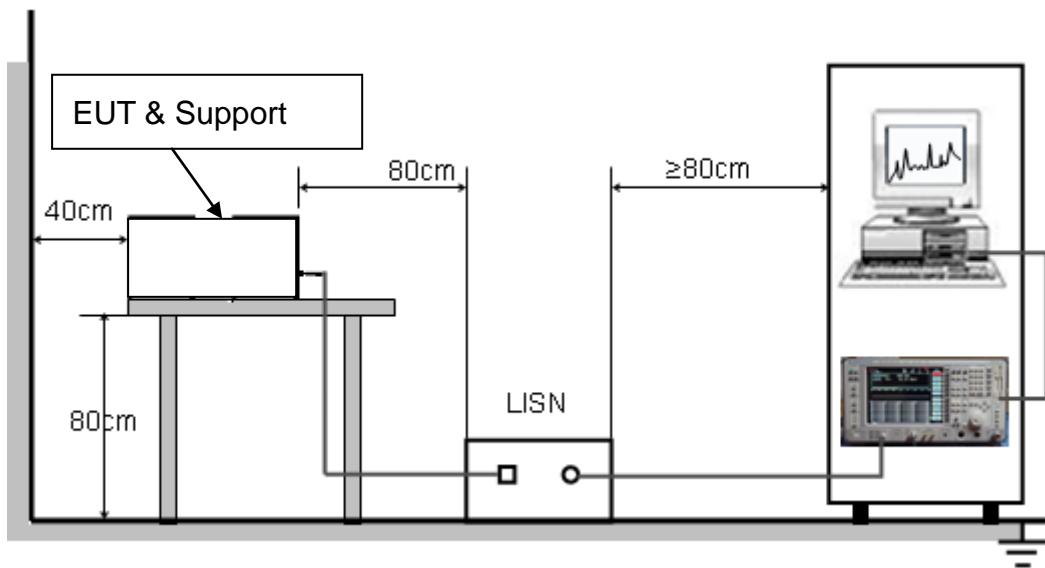
### 15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	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/60Hz power 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.

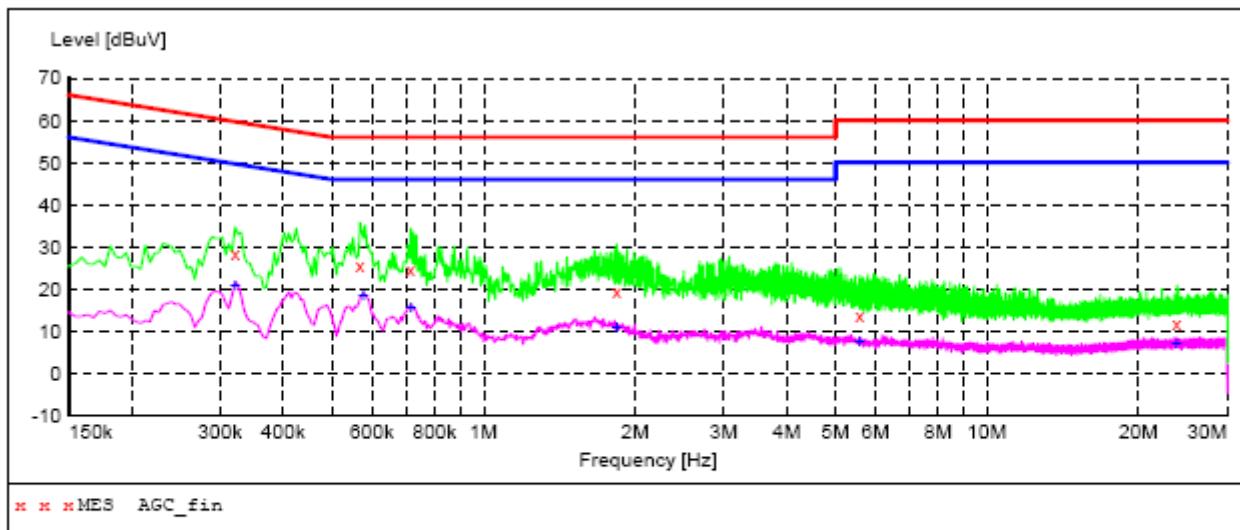
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### **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.

## 15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

### Line Conducted Emission Test Line 1-L



#### MEASUREMENT RESULT: "AGC\_fin"

2016/9/28 10:52

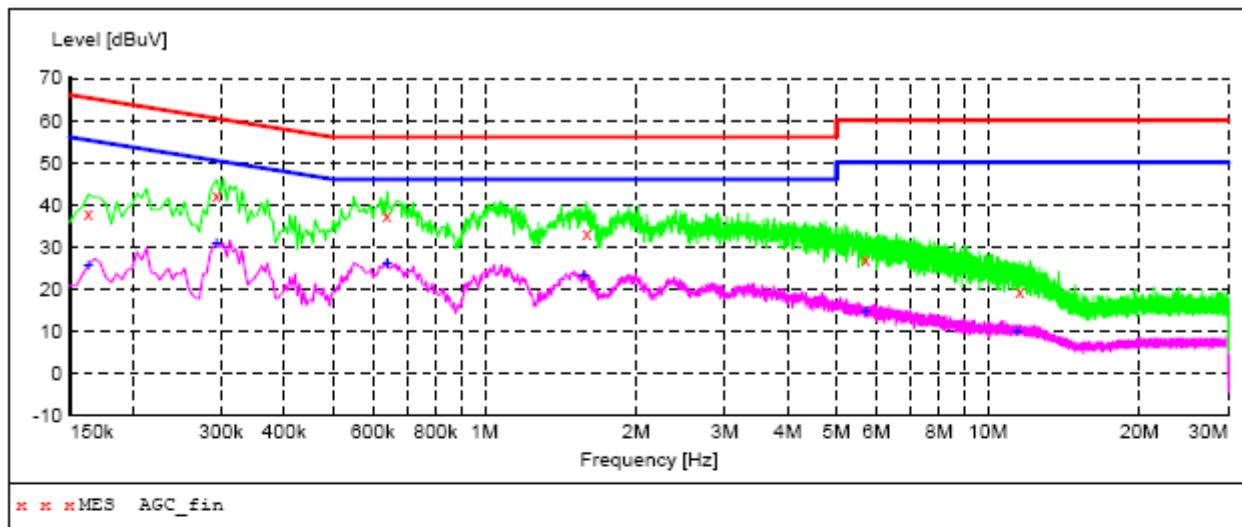
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.321000	28.30	10.3	60	31.4	QP	L1	FLO	ON
0.568500	25.50	10.3	56	30.5	QP	L1	FLO	ON
0.717000	24.60	10.3	56	31.4	QP	L1	FLO	ON
1.837500	19.40	10.4	56	36.6	QP	L1	FLO	ON
5.586000	13.50	10.6	60	46.5	QP	L1	FLO	ON
23.815500	11.90	12.0	60	48.1	QP	L1	FLO	ON

#### MEASUREMENT RESULT: "AGC\_fin2"

2016/9/28 10:52

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.321000	21.00	10.3	50	28.7	AV	L1	FLO	ON
0.577500	18.60	10.3	46	27.4	AV	L1	FLO	ON
0.717000	15.80	10.3	46	30.2	AV	L1	FLO	ON
1.837500	11.00	10.4	46	35.0	AV	L1	FLO	ON
5.586000	7.50	10.6	50	42.5	AV	L1	FLO	ON
23.815500	7.10	12.0	50	42.9	AV	L1	FLO	ON

Line Conducted Emission Test Line 2-N



**MEASUREMENT RESULT: "AGC\_fin"**

2016/9/28 10:40

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.163500	38.10	10.3	65	27.2	QP	N	FLO	ON
0.294000	42.20	10.3	60	18.2	QP	N	FLO	ON
0.640500	37.40	10.3	56	18.6	QP	N	FLO	ON
1.594500	33.40	10.4	56	22.6	QP	N	FLO	ON
5.716500	27.00	10.6	60	33.0	QP	N	FLO	ON
11.562000	19.30	10.9	60	40.7	QP	N	FLO	ON

**MEASUREMENT RESULT: "AGC\_fin2"**

2016/9/28 10:40

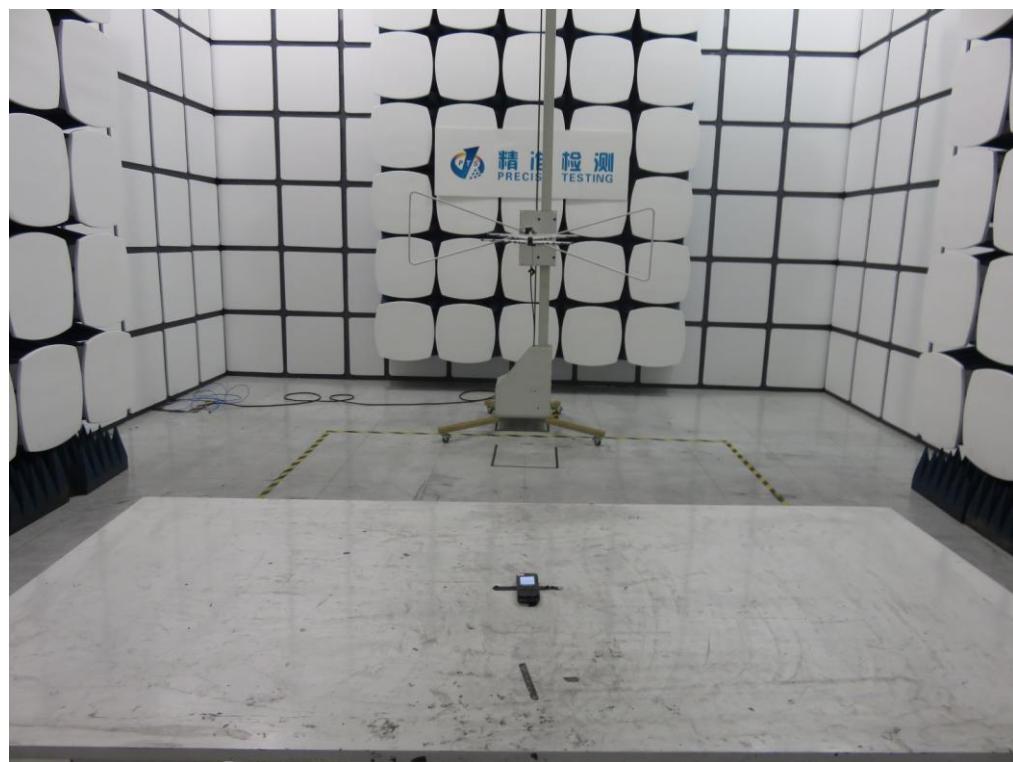
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.163500	25.60	10.3	55	29.7	AV	N	FLO	ON
0.294000	30.90	10.3	50	19.5	AV	N	FLO	ON
0.640500	25.90	10.3	46	20.1	AV	N	FLO	ON
1.576500	23.10	10.4	46	22.9	AV	N	FLO	ON
5.716500	14.50	10.6	50	35.5	AV	N	FLO	ON
11.422500	10.10	10.9	50	39.9	AV	N	FLO	ON

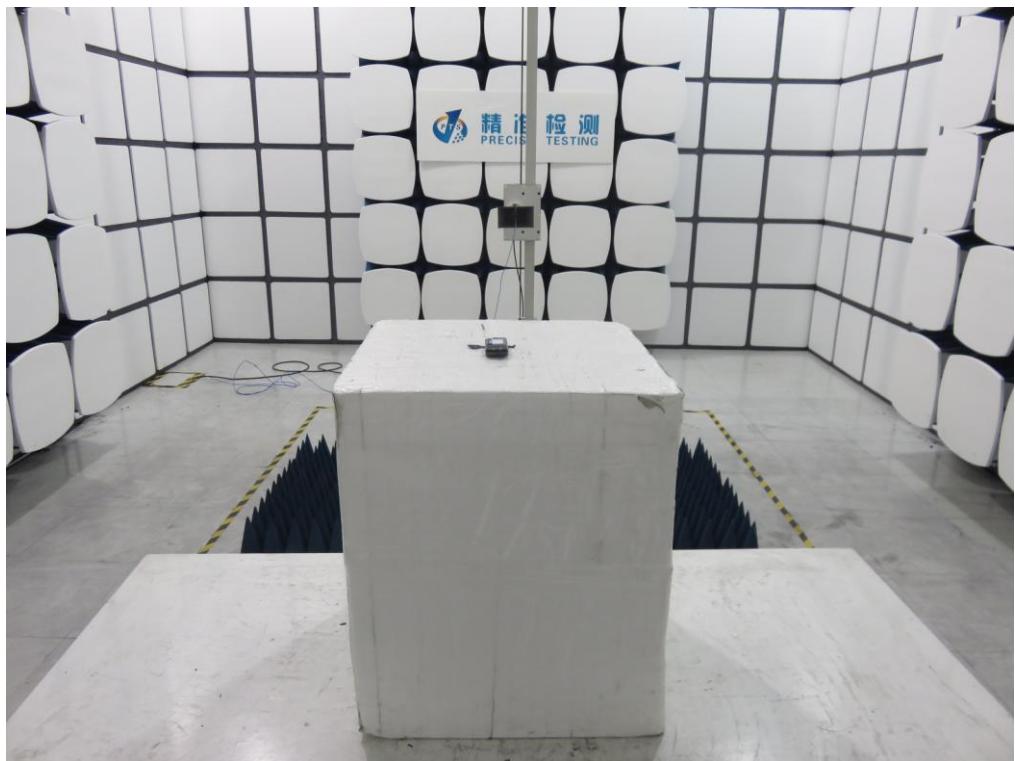
## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP





## APPENDIX B: PHOTOGRAPHS OF EUT

### TOTAL VIEW OF EUT



THE LABEL OF ADAPTER



THE LABEL OF BATTERY



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



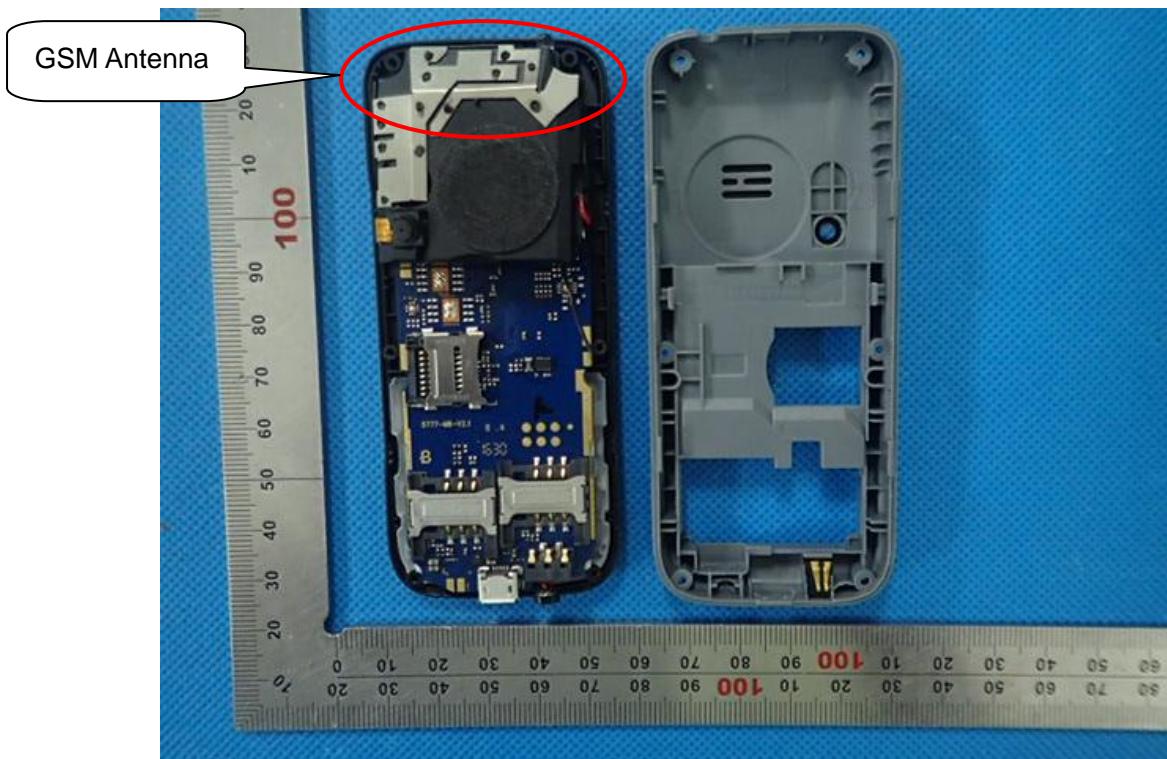
RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1

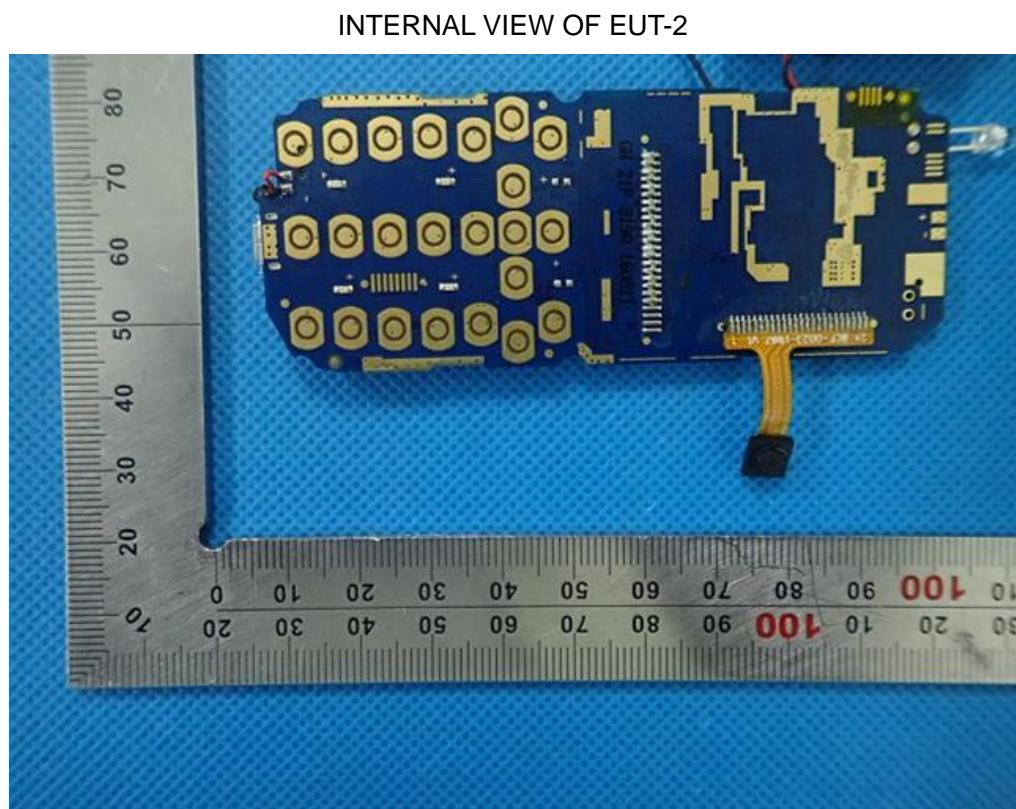
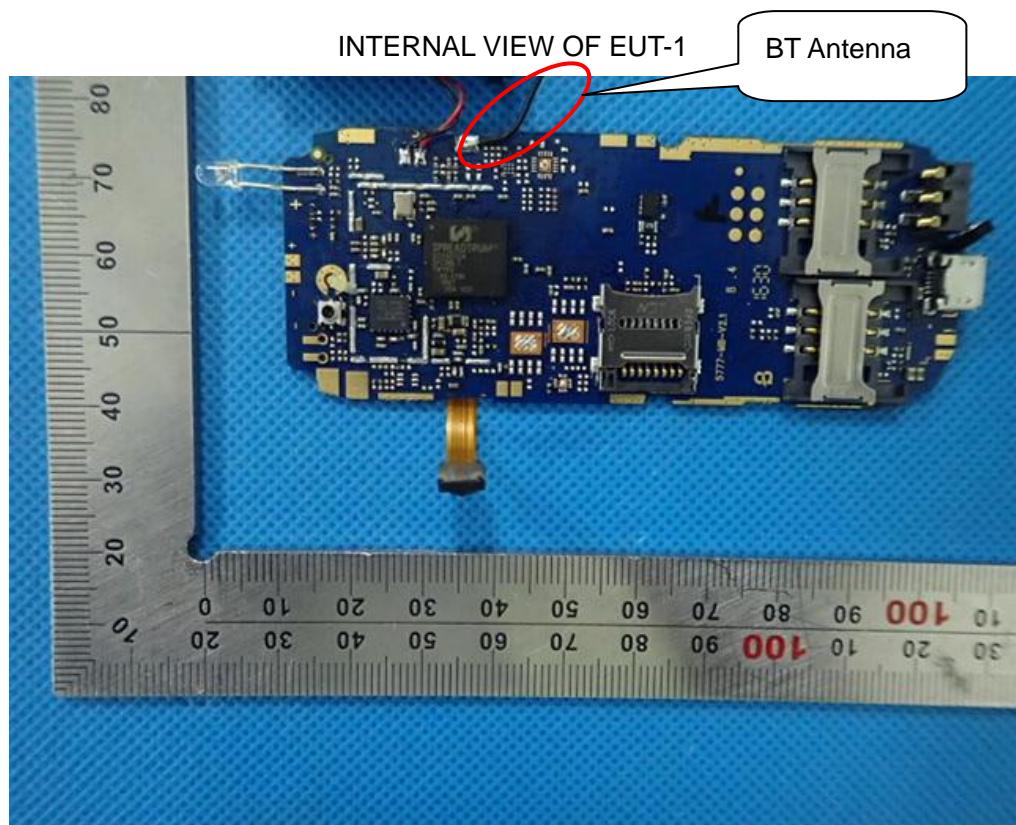


OPEN VIEW OF EUT-2



OPEN VIEW OF EUT-3





----END OF REPORT----