
FCC Test Report

Report No.: STS1502008F02

FCC ID : BRCPC7088

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : tablet pc

BRAND NAME : Kinwei, Titan

MODEL NAME : PC7088, PC7088ME, PC7088B, PC70XX(XX represents00~99), PC70XXME(XX represents00~99), PC70XXB(XX represents00~99), KW-PC7088J, KW-PC7088, KW-PC70XXJ(XX represents00~99), KW-PC70XX(XX represents00~99).

CLIENT : Kintech Co., Ltd.

DATE OF ISSUE : Jan.31, 2015

STANDARD(S) : FCC Part 15 Rules

TEST PROCEDURE(S) : DA 00-705

REPORT VERSION : V1.0

Shenzhen STS Test Services Co., Ltd.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan.31, 2015	Valid	Original Report



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1. VERIFICATION OF CONFORMITY

Applicant	Kintech Co., Ltd.
Address	1F-5F, Bldg 22, Chen Tian Industrial Zone, Xi Xiang Bao An District, Shenzhen, Guang Dong, China
Manufacturer	Kintech Co., Ltd.
Address	1F-5F, Bldg 22, Chen Tian Industrial Zone, Xi Xiang Bao An District, Shenzhen, Guang Dong, China
Product Designation	tablet pc
Brand Name	Kinwei, Titan
Test Model	PC7088
Series Model	PC7088ME, PC7088B, PC70XX(XX represents00~99), PC70XXME(XX represents00~99), PC70XXB(XX represents00~99), KW-PC7088J, KW-PC7088, KW-PC70XXJ(XX represents00~99), KW-PC70XX(XX represents00~99).
Difference description	All the same except for the brand name and model name.
Date of test	Dec.11,2014 to Jan.31,2015
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Shenzhen STS Test Services 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 C63.4 (2003) 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.

Prepared By

Tony Liu

Jan.31, 2015

Checked By

Vita Li

Jan.31, 2015

Authorized By

Bovey Yang

Jan.31, 2015

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "tablet pc" 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	7.10dBm(Max)
Bluetooth Version	V 3.0
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of channels	79
Hardware Version	ELINK-MZ706-D3_V2
Software Version	MT83x2_MZ706_MZ7061H1C2W1.2015011317
Antenna Designation	Integrated Antenna
Antenna Gain	0.8dBi
Power Supply	DC3.7V by Battery

2.2. TABLE OF CARRIER FREQUENCIES

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 multislotted 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 sent on the same frequency, it is sent 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 24 MSB's of the 48 BD_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 synchronization 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 312.5µs. The clock has a cycle of about one day (23h30). In most cases it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire LAP (24 bits), 4 LSB's (4 bits) (Input 1) and the 27 MSB's of the clock (Input 2) are used. With these input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the 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 transmissions is longer (and it cannot be shorter) than the minimum resolution of the clock (312.5µs). 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: BRCPC7088** 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

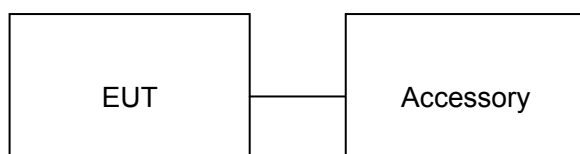
4. DESCRIPTION OF TEST MODES

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 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.	

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	Note
1	tablet pc	PC7088	FCCID:BRCP7088	EUT
2	Adapter	JKY0212-0502000UL	DC5.0V / 2A	Accessory
3	Battery	N/A	DC3.7V / 2500mAh	Accessory
4	Earphone	PC7088	N/A	Accessory
5	USB Cable	PC7088	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

Site	Shenzhen STS Test Services Co., Ltd.
Location	1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.FCC Registration No.: 842334

ALL TEST EQUIPMENT LIST

Name of Equipment	Manufacturer	Model	Calibration Date	Calibration Due.
SPECTRUM ANALYZER	AGILENT	E4407B	2014.10.25	2015.10.24
Power Probe	R&S	NRP-Z23	07/25/2014	07/24/2015
RF attenuator	N/A	RFA20db	N/A	N/A
TEST RECEIVER	R&S	ESCI	2014.10.25	2015.10.24
COMMUNICATION TESTER	AGILENT	8960	2014.10.25	2015.10.24
COMMUNICATION TESTER	R&S	CMU200	2014.10.25	2015.10.24
SPECTRUM ANALYZER	AGILENT	E4440A	2014.02.17	2015.02.16
TEST RECEIVER	R&S	ESCI	2014.10.25	2015.10.24
LISN	R&S	ENV216	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	2014.10.25	2015.10.24
Loop Antenna	Daze	ZN30900N	2014.10.27	2015.10.26
Bilog Antenna	TESEQ	CBL6111D	2014.10.27	2015.10.26
Horn Antenna	R&S	9120D	2014.10.27	2015.10.26
Test Cable	N/A	R-01	2014.10.25	2015.10.24
Test Cable	N/A	R-02	2014.10.25	2015.10.24
Conduction Cable	EM	N/A	2014.10.25	2015.10.24

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.

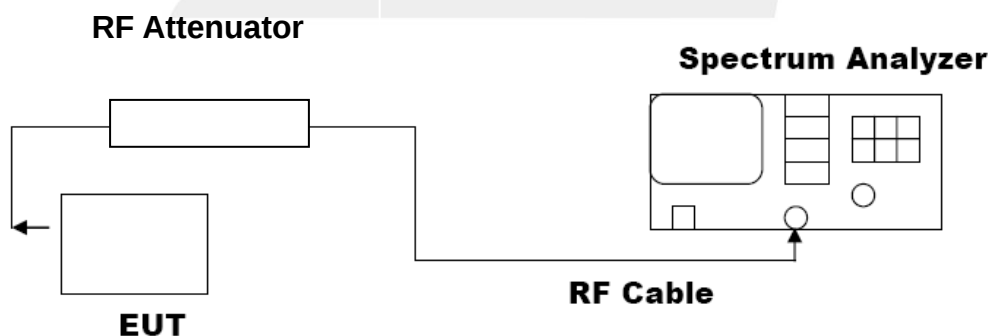
For average power test:

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).

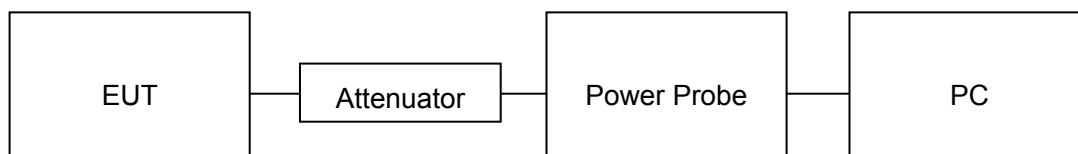
Note : The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

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

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



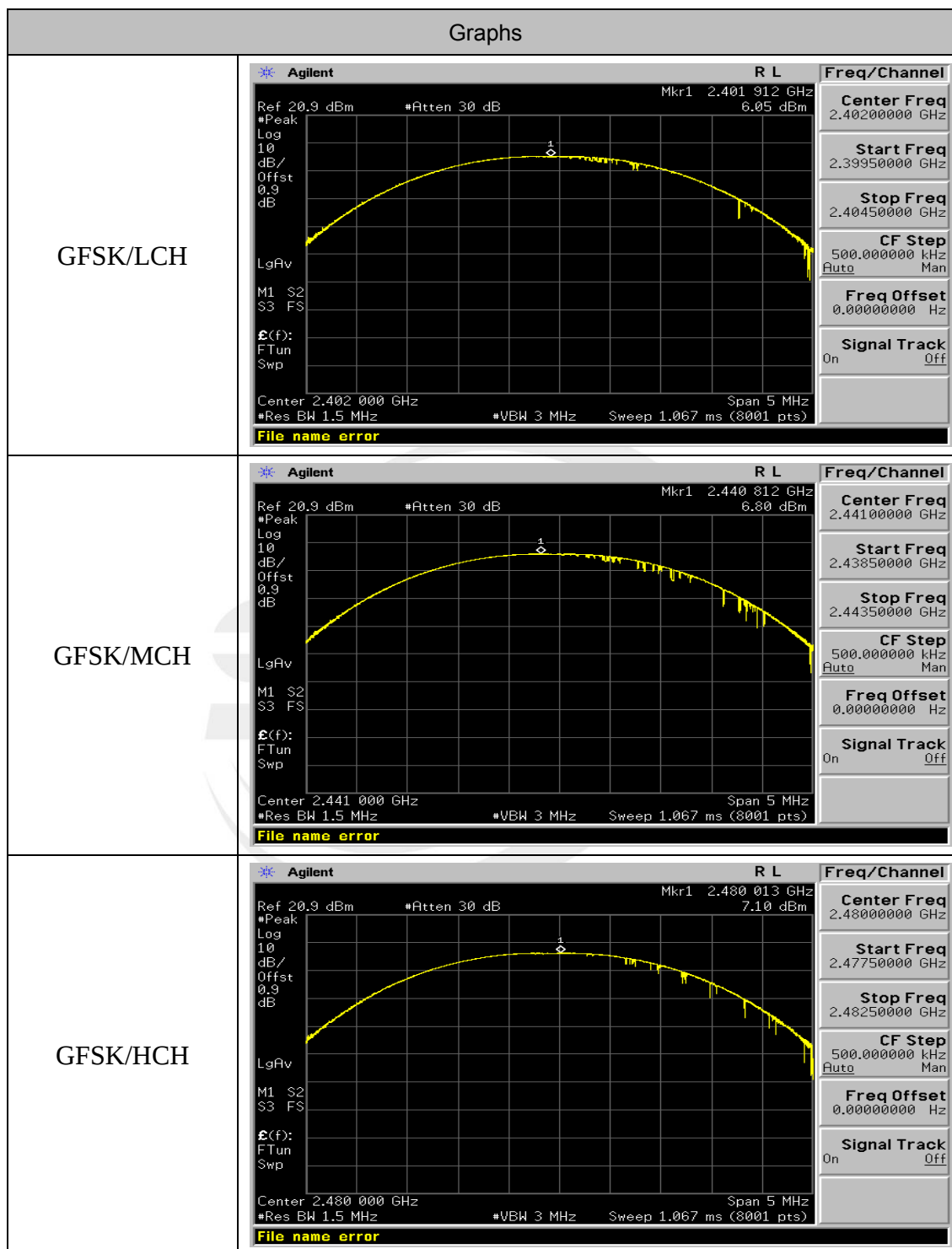
7.3. LIMITS AND MEASUREMENT RESULT

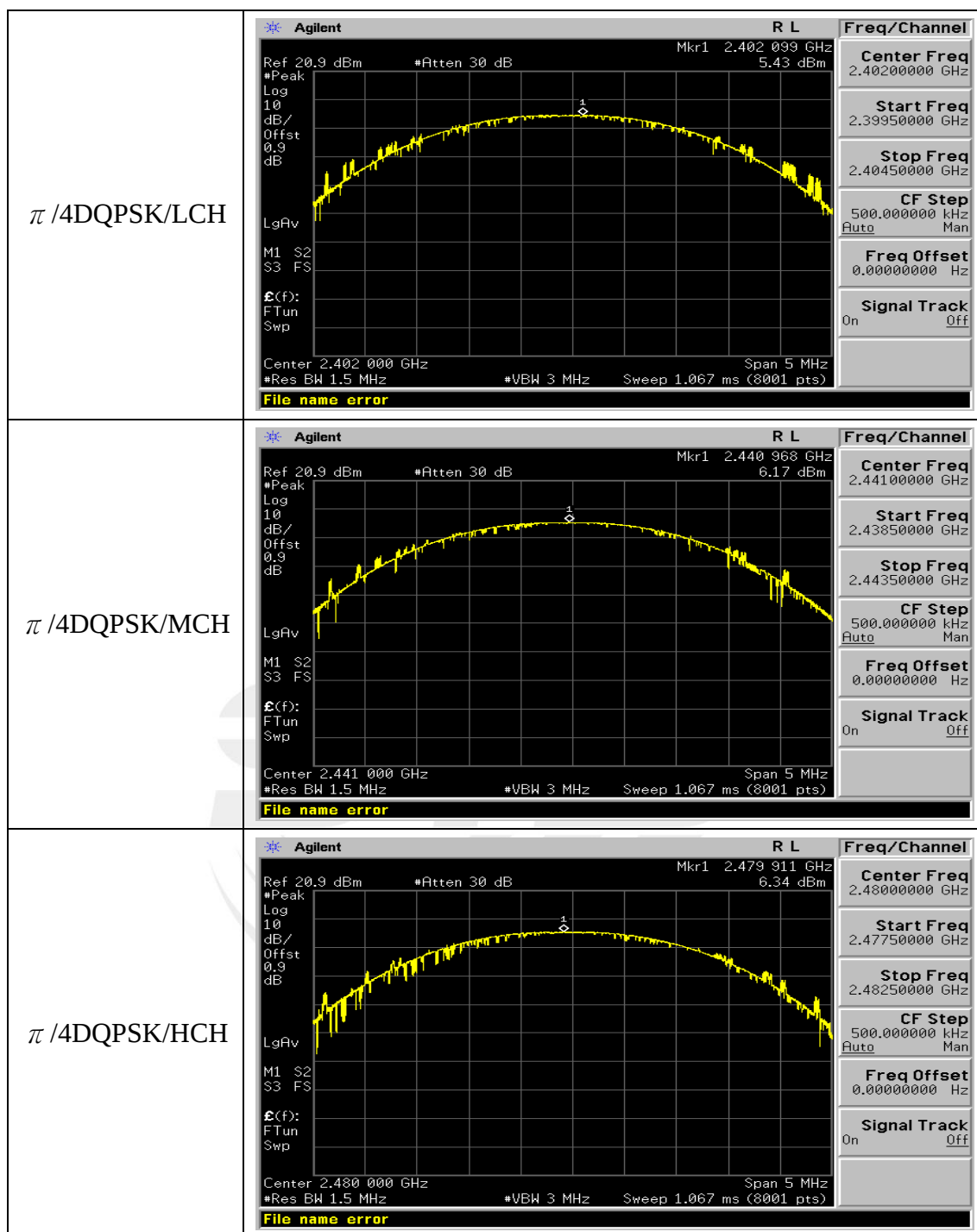
PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MODULATION				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.04	6.05	21	Pass
2.441	4.79	6.8	21	Pass
2.480	5.09	7.1	21	Pass

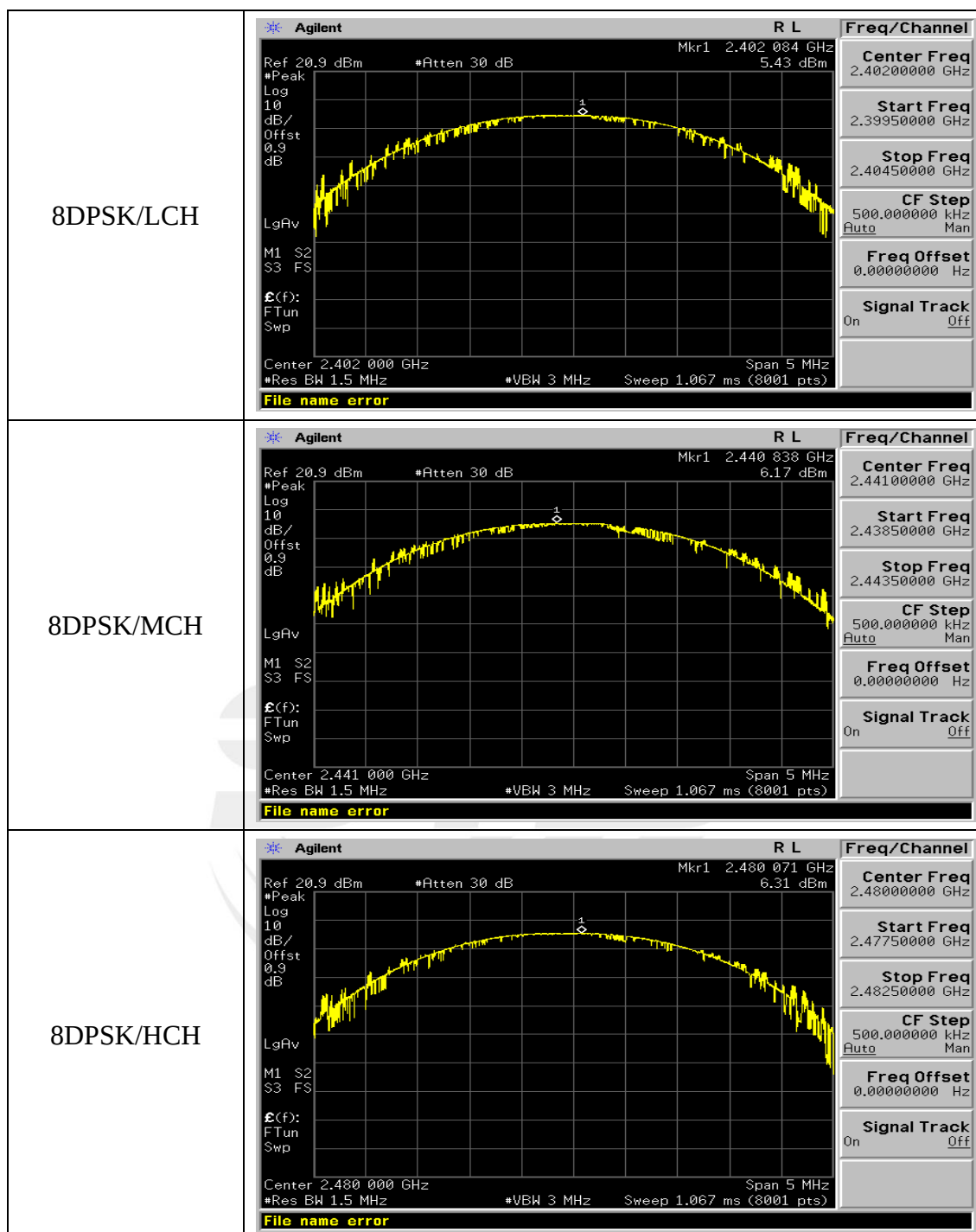
PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	3.42	5.43	21	Pass
2.441	4.16	6.17	21	Pass
2.480	4.33	6.34	21	Pass

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	3.42	5.43	21	Pass
2.441	4.16	6.17	21	Pass
2.480	4.3	6.31	21	Pass

Test Graph





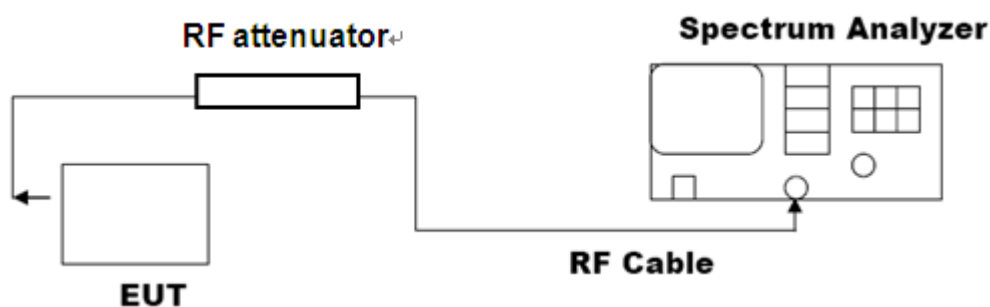


8. 20DB BANDWIDTH

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 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.

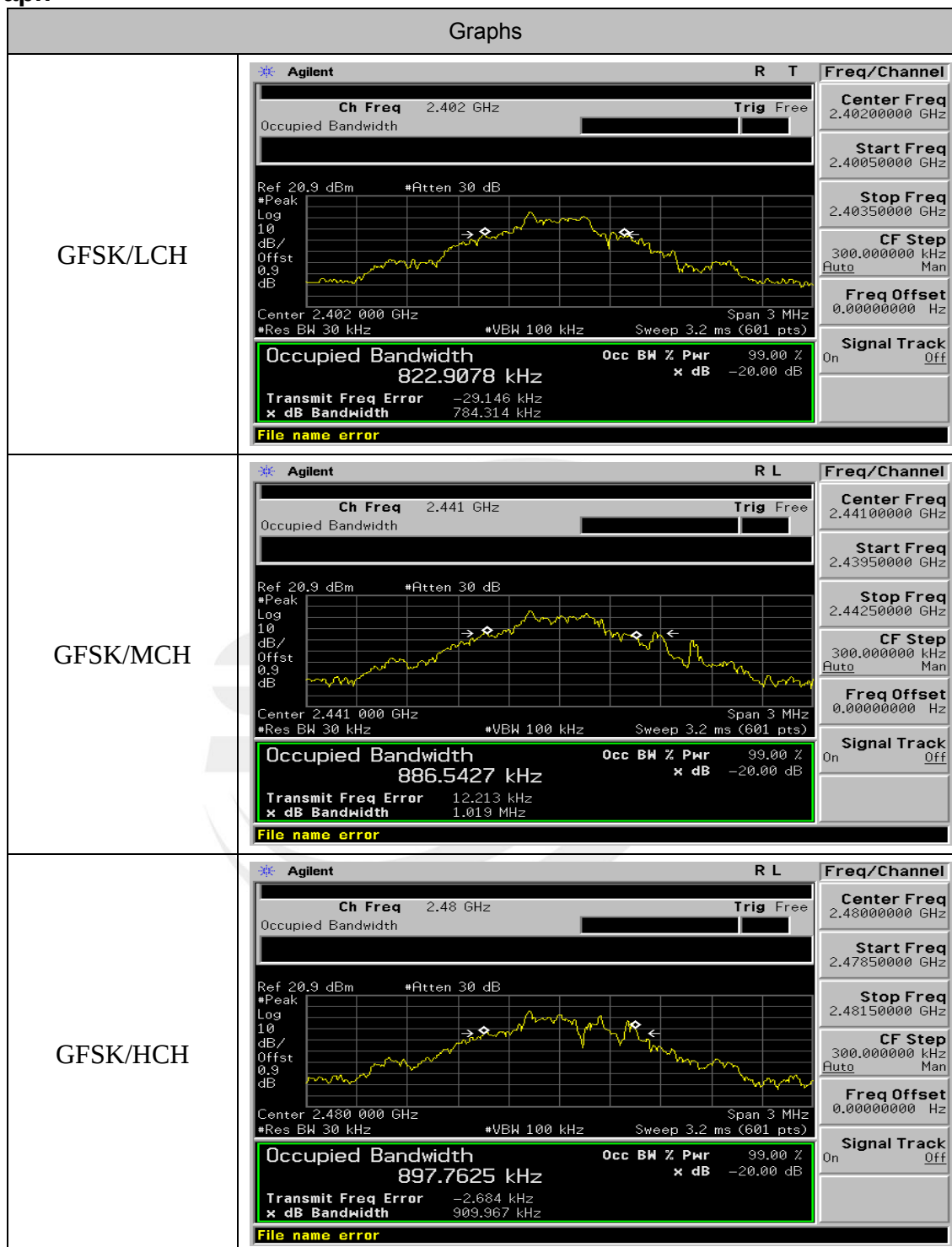
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

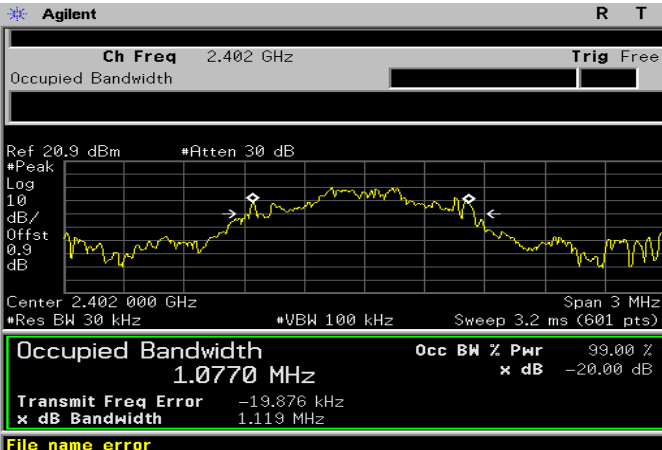
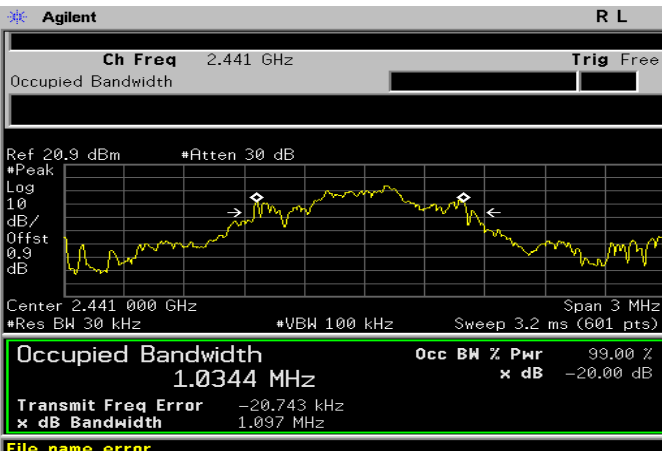
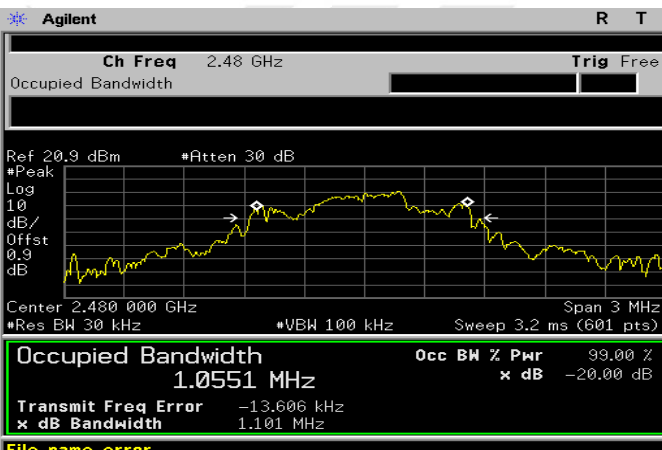


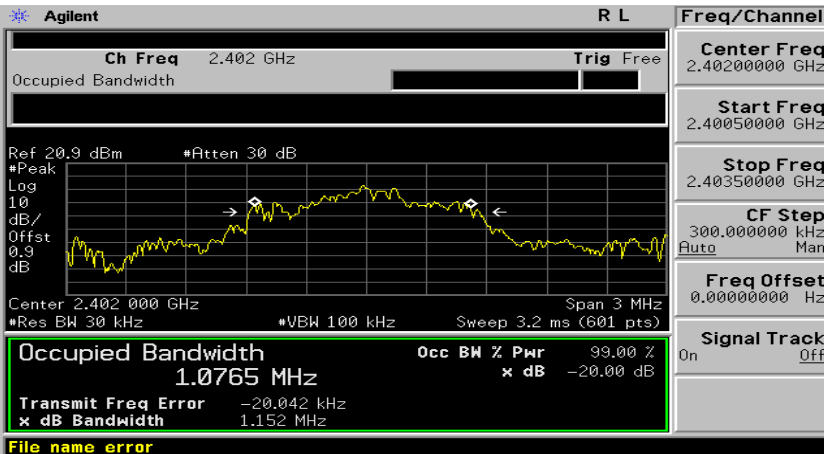
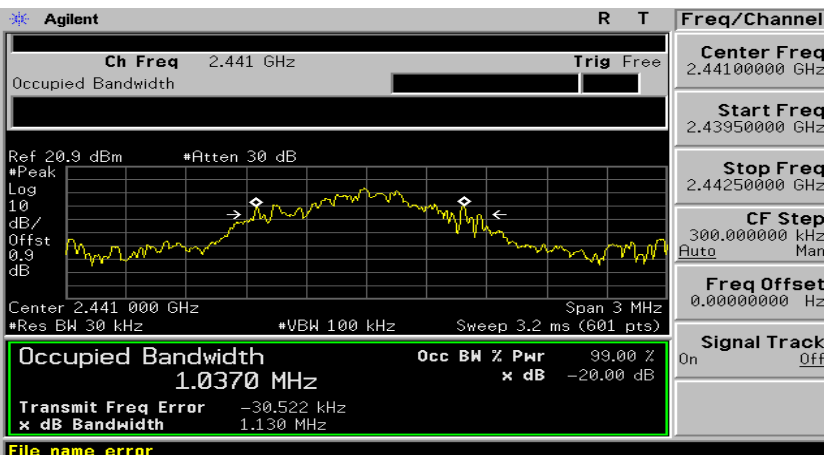
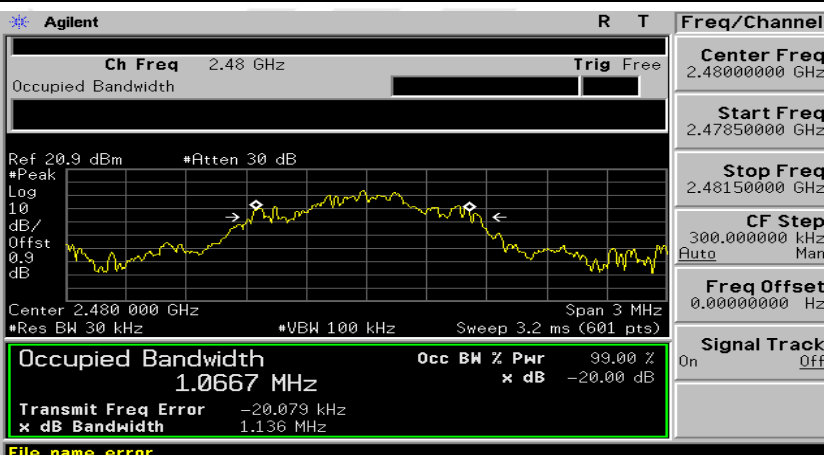
8.3. LIMITS AND MEASUREMENT RESULTS

Mode	Channel.	EBW [MHz]	OBW [MHz]	Verdict
GFSK	LCH	0.7843	0.8229	PASS
GFSK	MCH	1.0187	0.8865	PASS
GFSK	HCH	0.9100	0.8978	PASS
$\pi/4$ DQPSK	LCH	1.1190	1.0770	PASS
$\pi/4$ DQPSK	MCH	1.0975	1.0344	PASS
$\pi/4$ DQPSK	HCH	1.1013	1.0551	PASS
8DPSK	LCH	1.1522	1.0765	PASS
8DPSK	MCH	1.1300	1.0370	PASS
8DPSK	HCH	1.1362	1.0667	PASS

Test Graph



π /4DQPSK/LCH	 Agilent R T Freq/Channel Ch Freq 2.402 GHz Trig Free Center Freq 2.4020000 GHz Start Freq 2.4005000 GHz Stop Freq 2.4035000 GHz CF Step 300.00000 kHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off Ref 20.9 dBm *Atten 30 dB *Peak Log 10 dB/Offst 0.9 dB Center 2.402 000 GHz Span 3 MHz *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) Occupied Bandwidth 1.0770 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -19.876 kHz x dB Bandwidth 1.119 MHz File name error
π /4DQPSK/MCH	 Agilent R L Freq/Channel Ch Freq 2.441 GHz Trig Free Center Freq 2.4410000 GHz Start Freq 2.4395000 GHz Stop Freq 2.4425000 GHz CF Step 300.00000 kHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off Ref 20.9 dBm *Atten 30 dB *Peak Log 10 dB/Offst 0.9 dB Center 2.441 000 GHz Span 3 MHz *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) Occupied Bandwidth 1.0344 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -20.743 kHz x dB Bandwidth 1.097 MHz File name error
π /4DQPSK/HCH	 Agilent R T Freq/Channel Ch Freq 2.48 GHz Trig Free Center Freq 2.4800000 GHz Start Freq 2.4785000 GHz Stop Freq 2.4815000 GHz CF Step 300.00000 kHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off Ref 20.9 dBm *Atten 30 dB *Peak Log 10 dB/Offst 0.9 dB Center 2.480 000 GHz Span 3 MHz *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) Occupied Bandwidth 1.0551 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -13.606 kHz x dB Bandwidth 1.101 MHz File name error

8DPSK/LCH	 Agilent R L Ch Freq 2.402 GHz Trig Free Occupied Bandwidth Ref 20.9 dBm *Atten 30 dB *Peak Log 10 dB/Offst 0.9 dB Center 2.402 000 GHz Span 3 MHz *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) <table><tr><td>Occupied Bandwidth</td><td>Occ BW % Pwr</td><td>99.00 %</td></tr><tr><td>1.0765 MHz</td><td>x dB</td><td>-20.00 dB</td></tr></table> Transmit Freq Error -20.042 kHz x dB Bandwidth 1.152 MHz File name error Freq/Channel Center Freq 2.40200000 GHz Start Freq 2.40050000 GHz Stop Freq 2.40350000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off	Occupied Bandwidth	Occ BW % Pwr	99.00 %	1.0765 MHz	x dB	-20.00 dB
Occupied Bandwidth	Occ BW % Pwr	99.00 %					
1.0765 MHz	x dB	-20.00 dB					
8DPSK/MCH	 Agilent R T Ch Freq 2.441 GHz Trig Free Occupied Bandwidth Ref 20.9 dBm *Atten 30 dB *Peak Log 10 dB/Offst 0.9 dB Center 2.441 000 GHz Span 3 MHz *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) <table><tr><td>Occupied Bandwidth</td><td>Occ BW % Pwr</td><td>99.00 %</td></tr><tr><td>1.0370 MHz</td><td>x dB</td><td>-20.00 dB</td></tr></table> Transmit Freq Error -30.522 kHz x dB Bandwidth 1.130 MHz File name error Freq/Channel Center Freq 2.44100000 GHz Start Freq 2.43950000 GHz Stop Freq 2.44250000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off	Occupied Bandwidth	Occ BW % Pwr	99.00 %	1.0370 MHz	x dB	-20.00 dB
Occupied Bandwidth	Occ BW % Pwr	99.00 %					
1.0370 MHz	x dB	-20.00 dB					
8DPSK/HCH	 Agilent R T Ch Freq 2.48 GHz Trig Free Occupied Bandwidth Ref 20.9 dBm *Atten 30 dB *Peak Log 10 dB/Offst 0.9 dB Center 2.480 000 GHz Span 3 MHz *Res BW 30 kHz *VBW 100 kHz Sweep 3.2 ms (601 pts) <table><tr><td>Occupied Bandwidth</td><td>Occ BW % Pwr</td><td>99.00 %</td></tr><tr><td>1.0667 MHz</td><td>x dB</td><td>-20.00 dB</td></tr></table> Transmit Freq Error -20.079 kHz x dB Bandwidth 1.136 MHz File name error Freq/Channel Center Freq 2.48000000 GHz Start Freq 2.47850000 GHz Stop Freq 2.48150000 GHz CF Step 300.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off	Occupied Bandwidth	Occ BW % Pwr	99.00 %	1.0667 MHz	x dB	-20.00 dB
Occupied Bandwidth	Occ BW % Pwr	99.00 %					
1.0667 MHz	x dB	-20.00 dB					

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

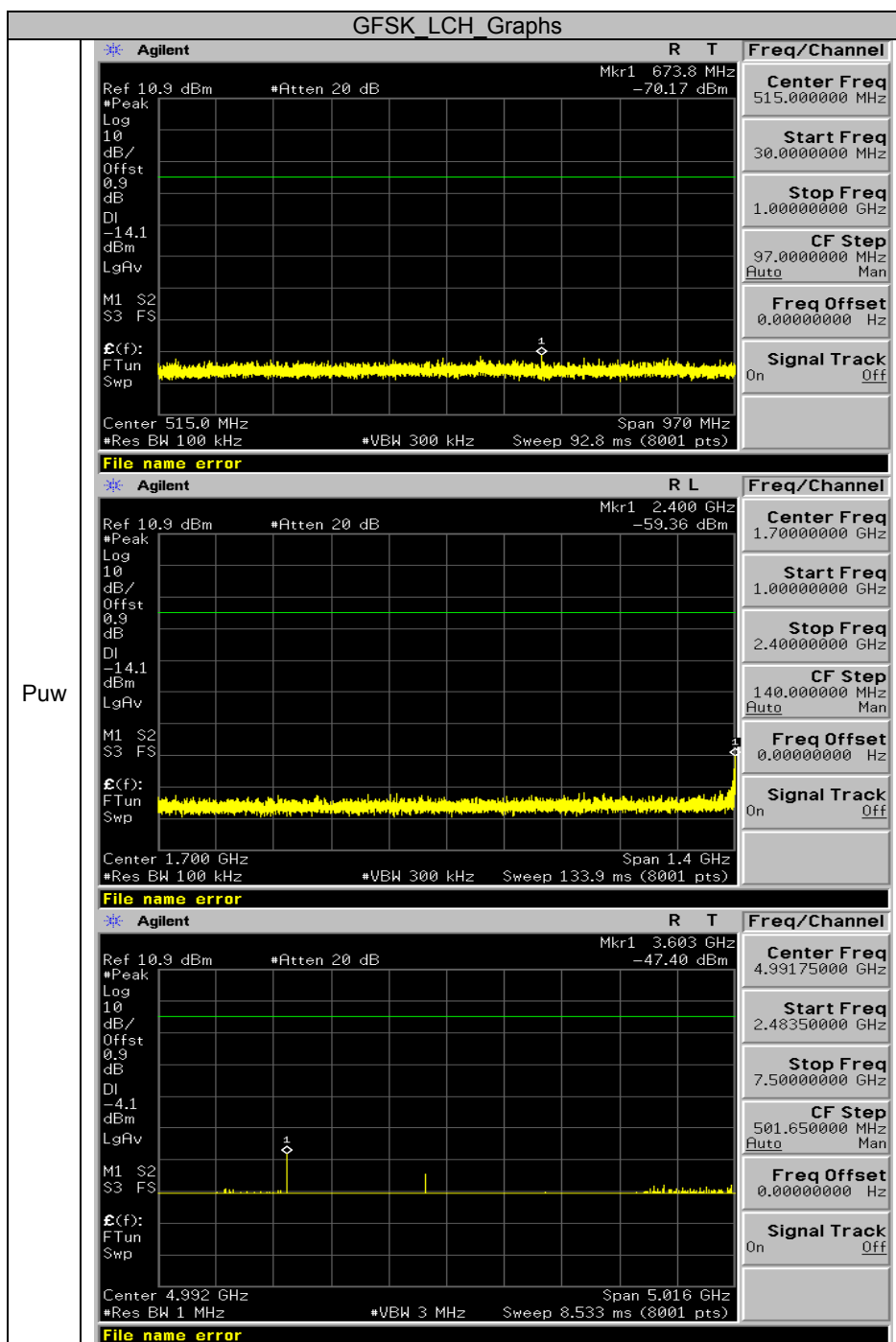
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

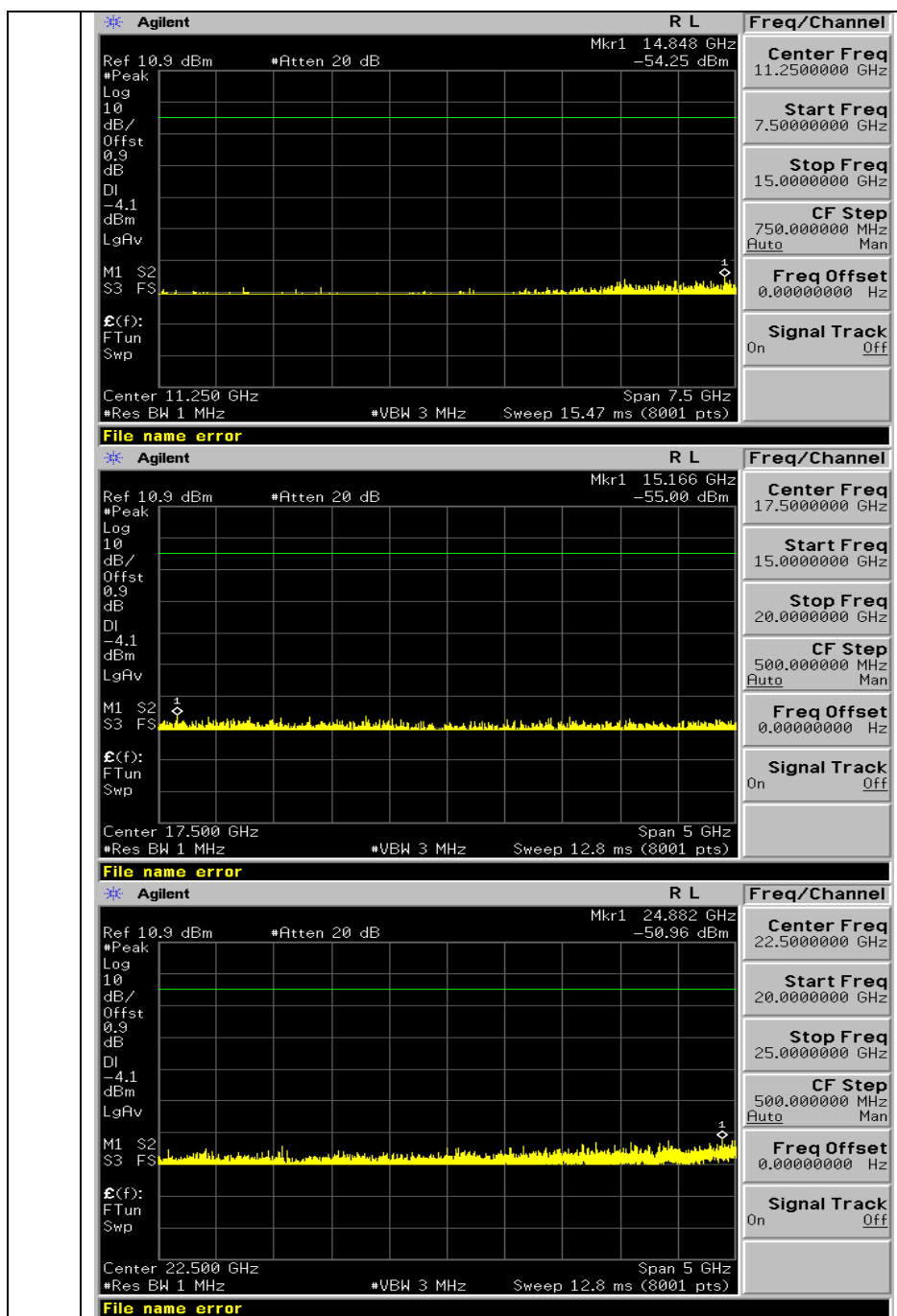
9.4. LIMITS AND MEASUREMENT RESULT

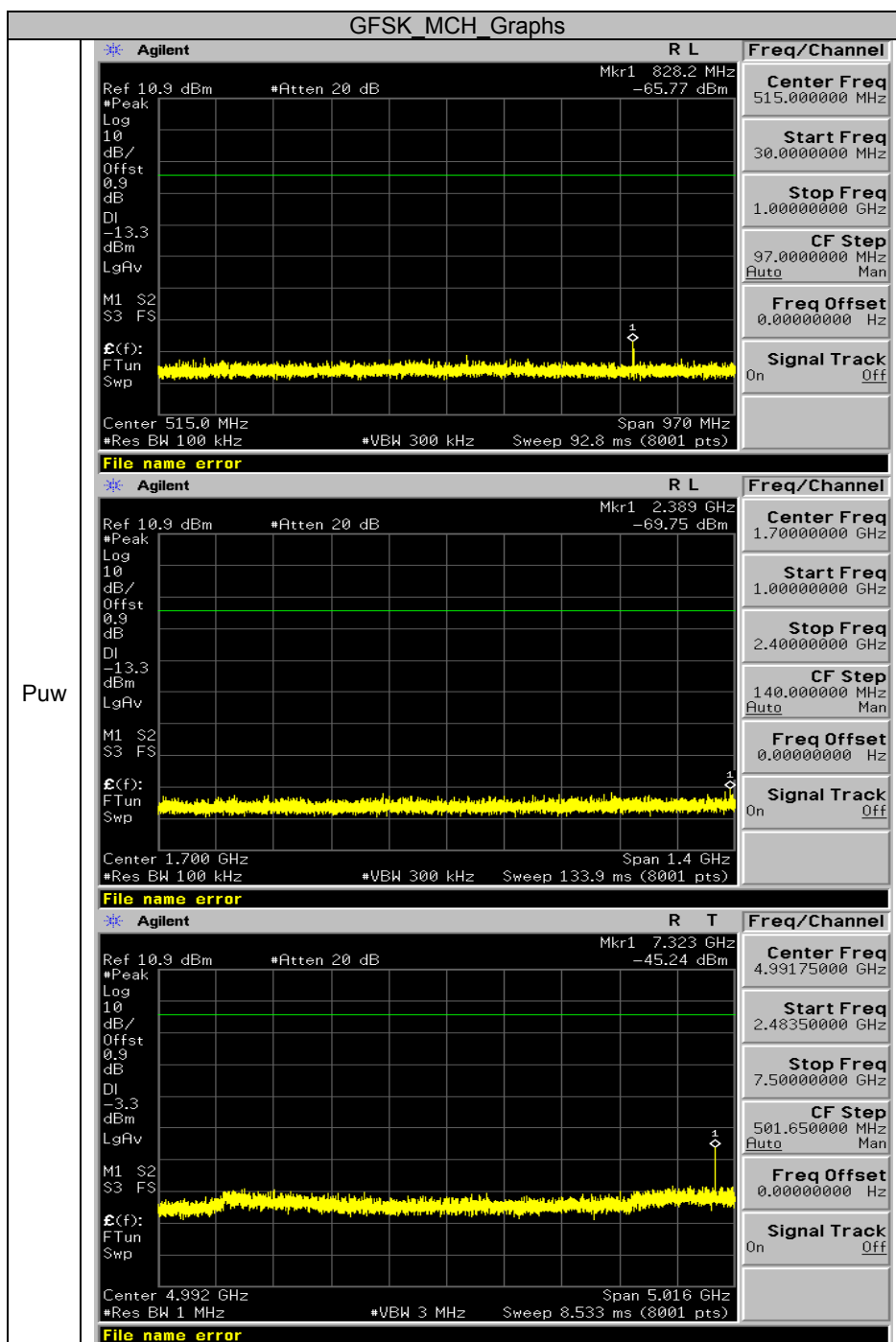
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below 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

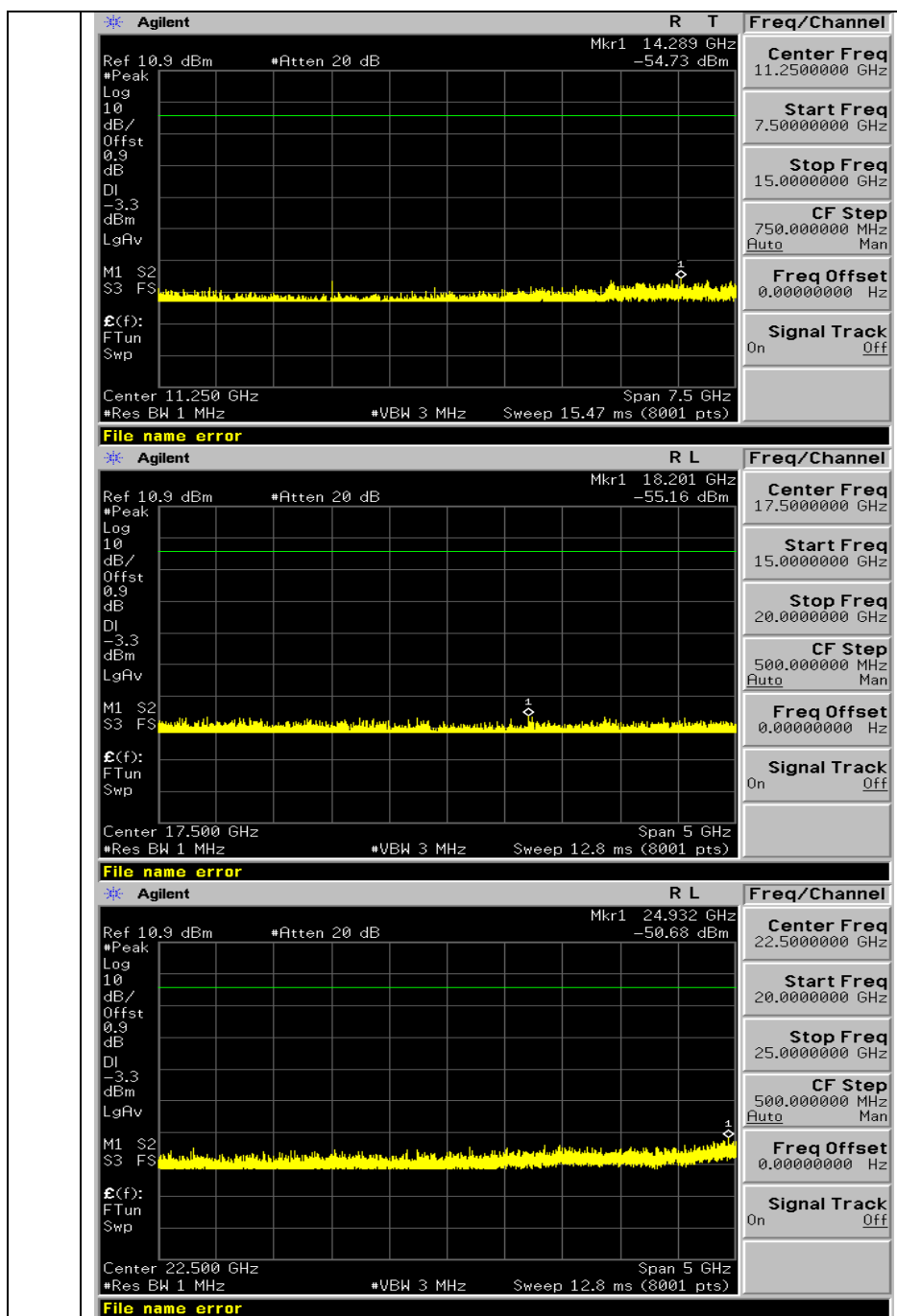
Test Graph

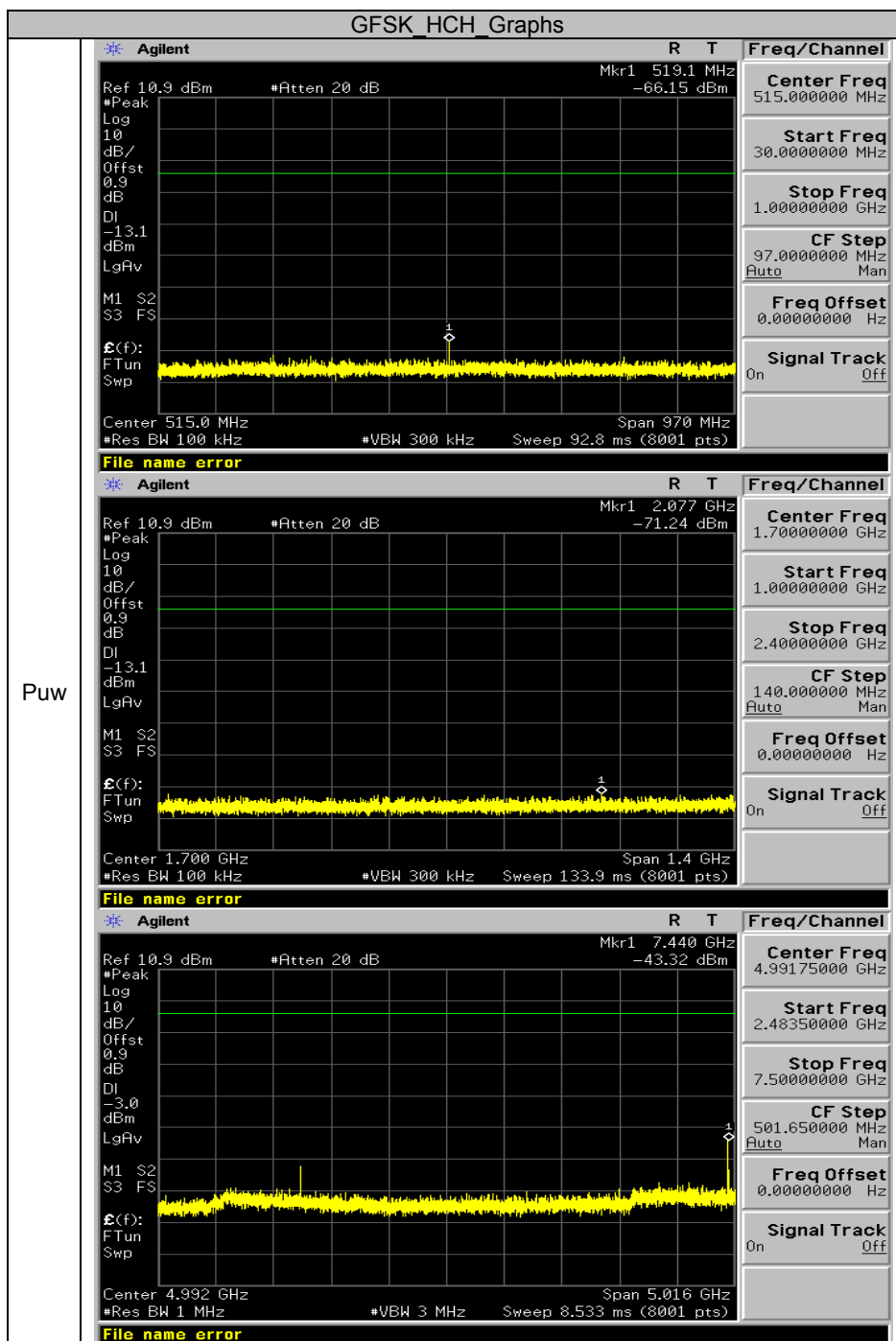


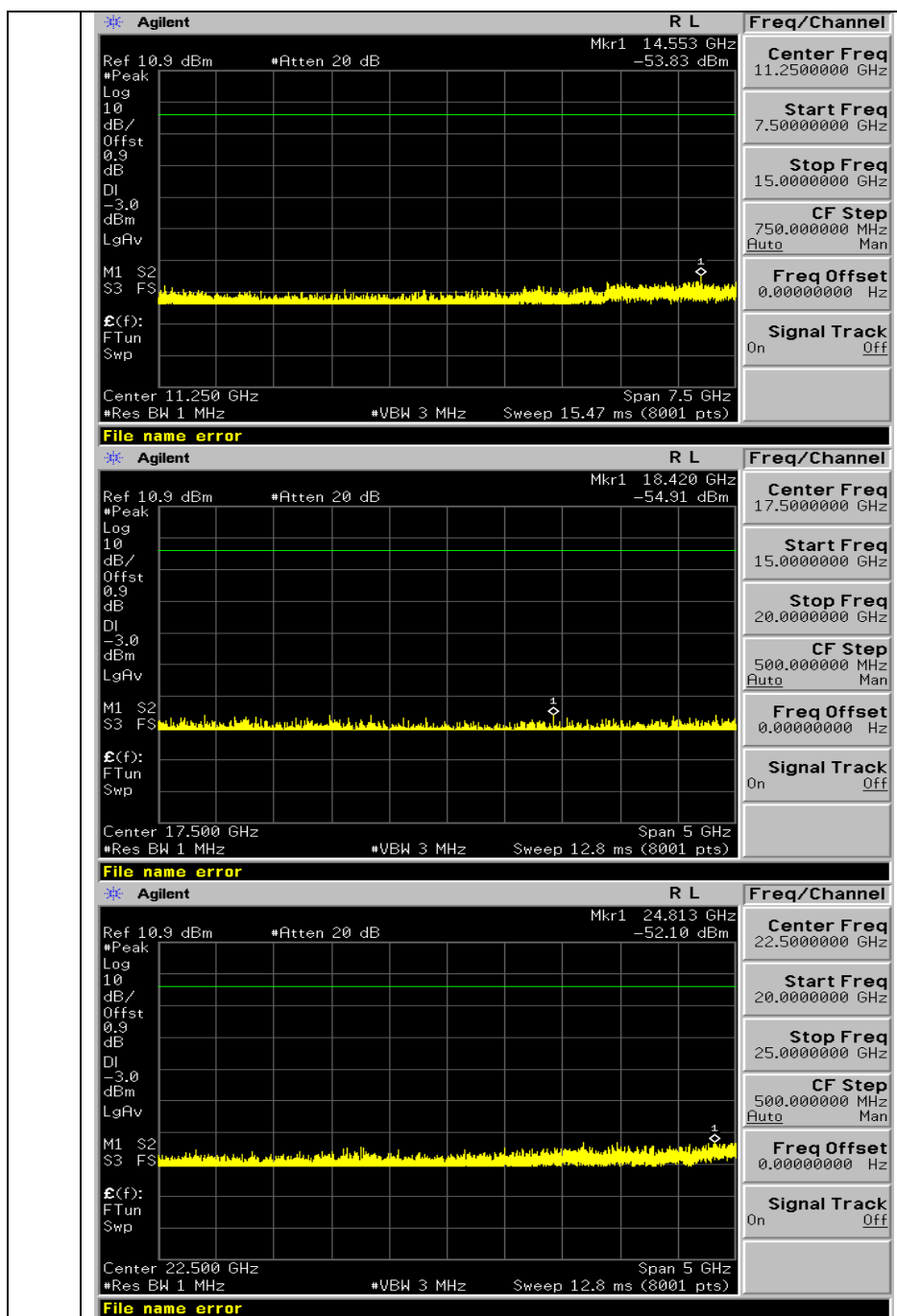
Puw

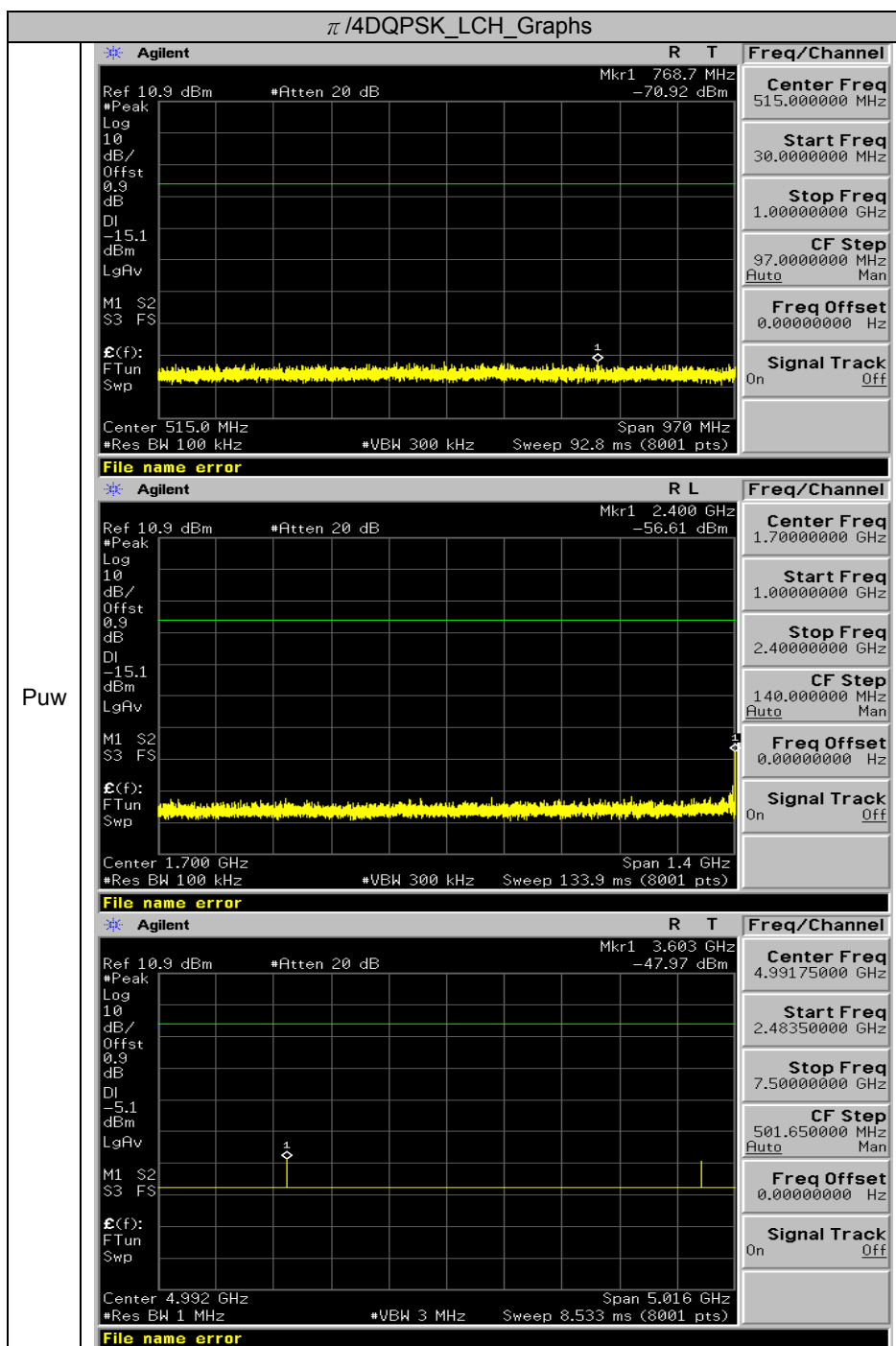


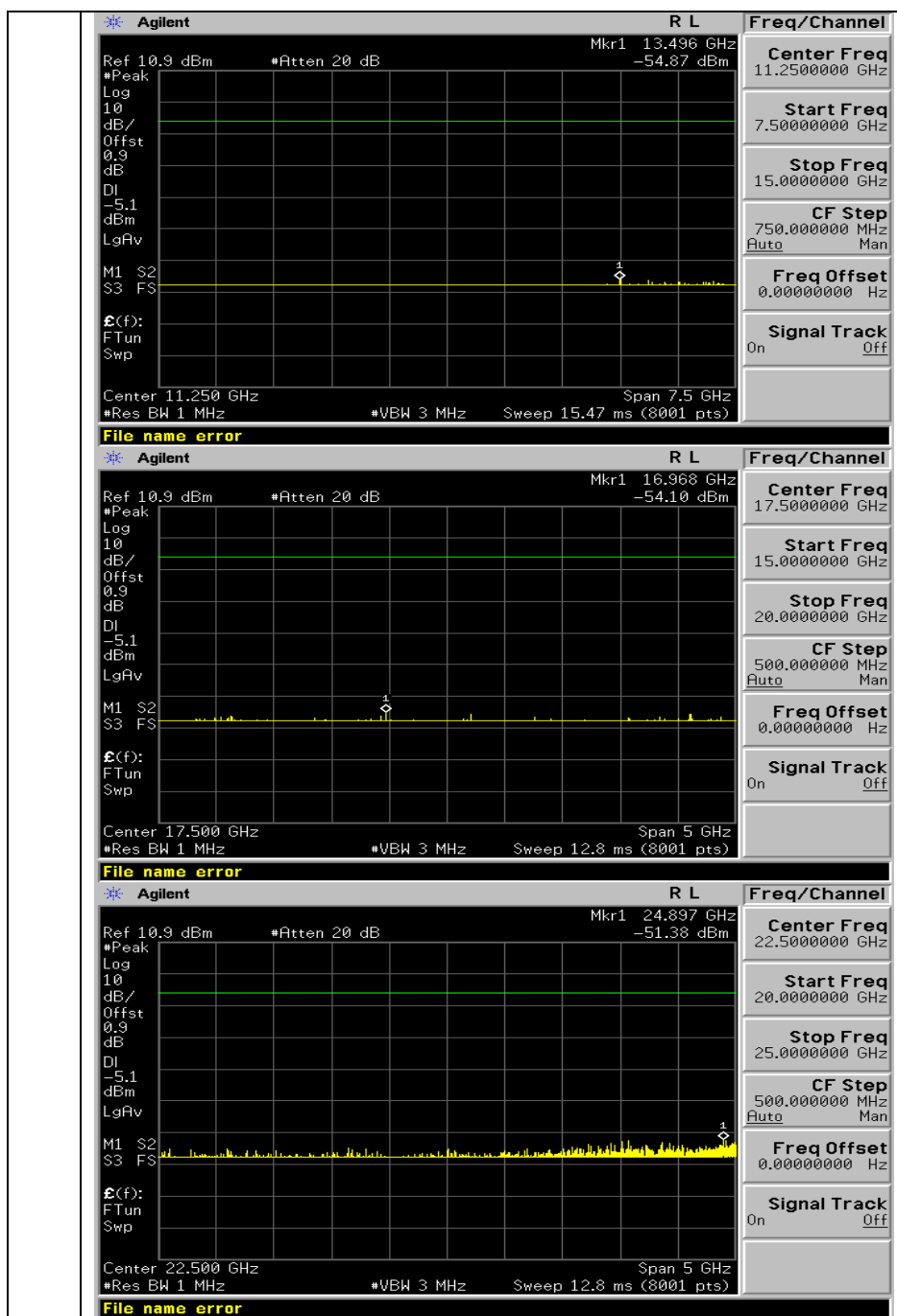


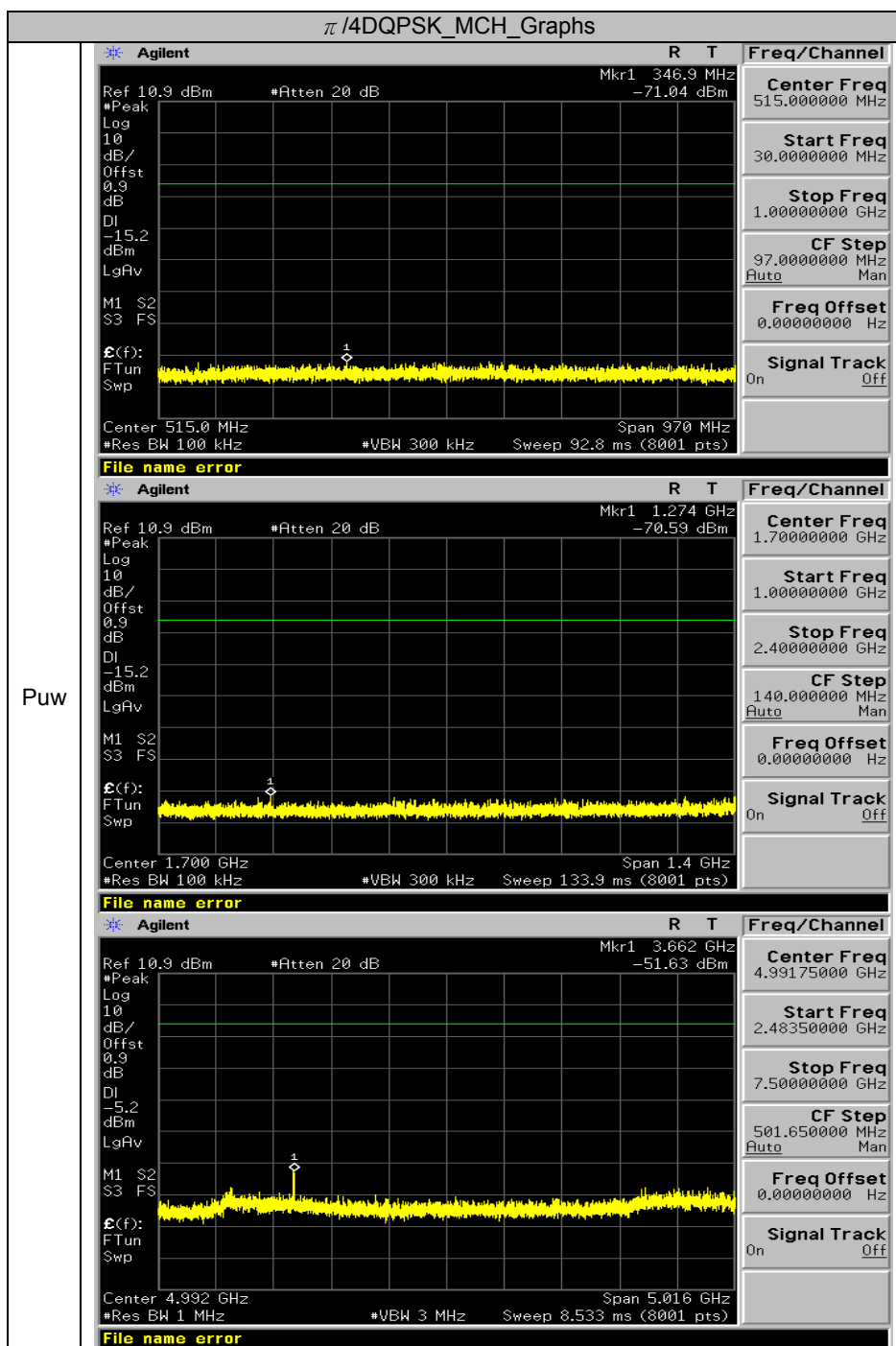


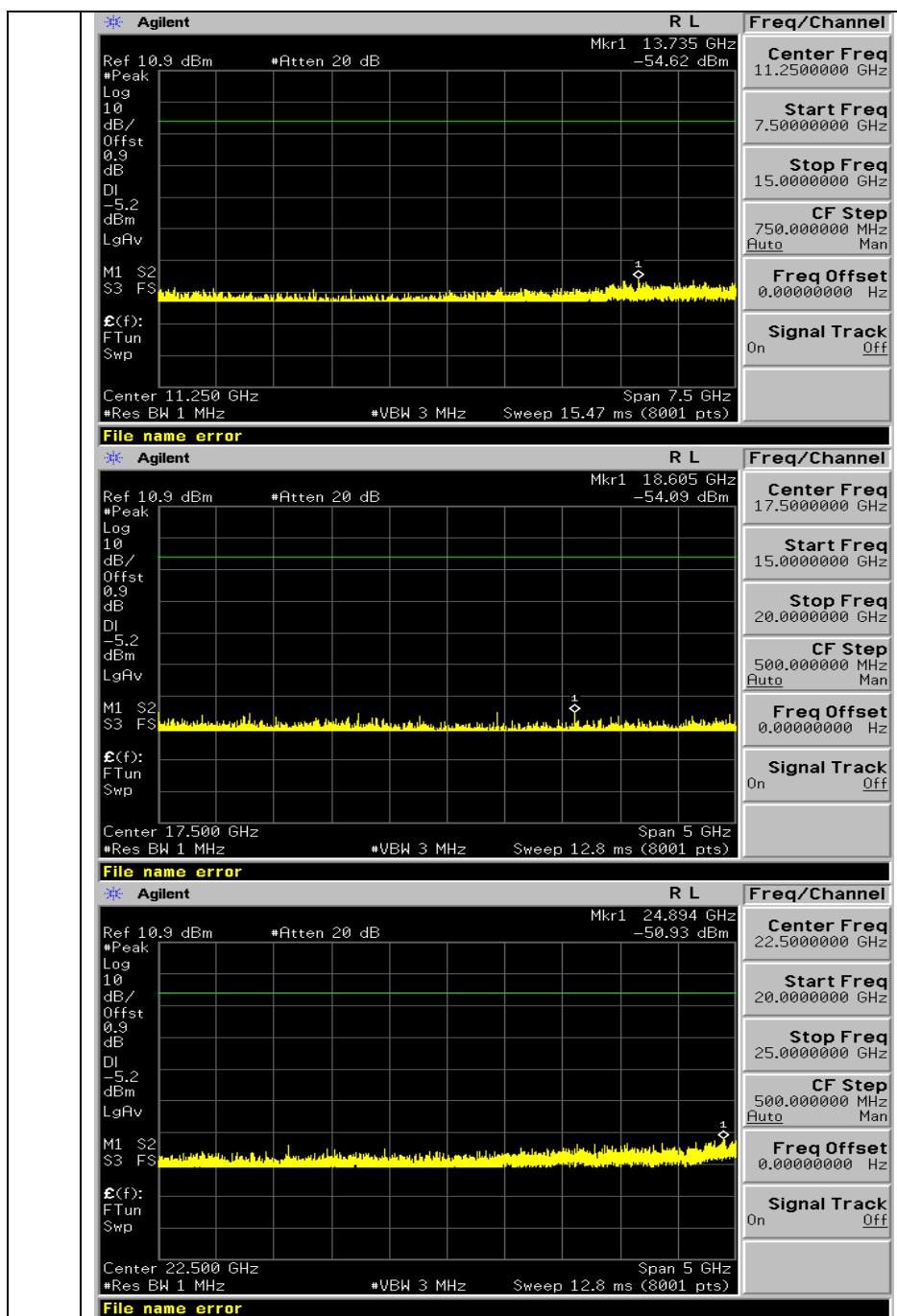


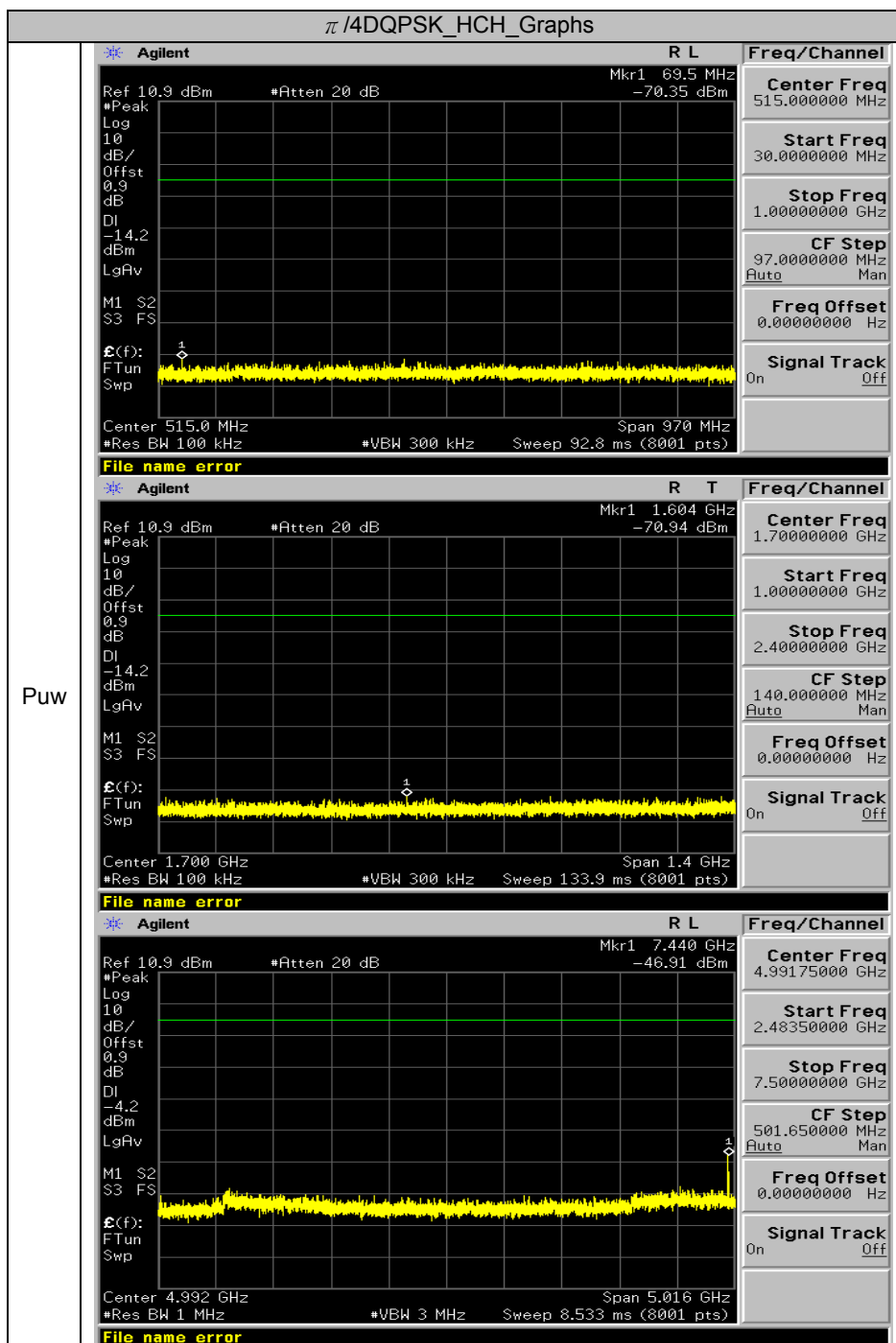


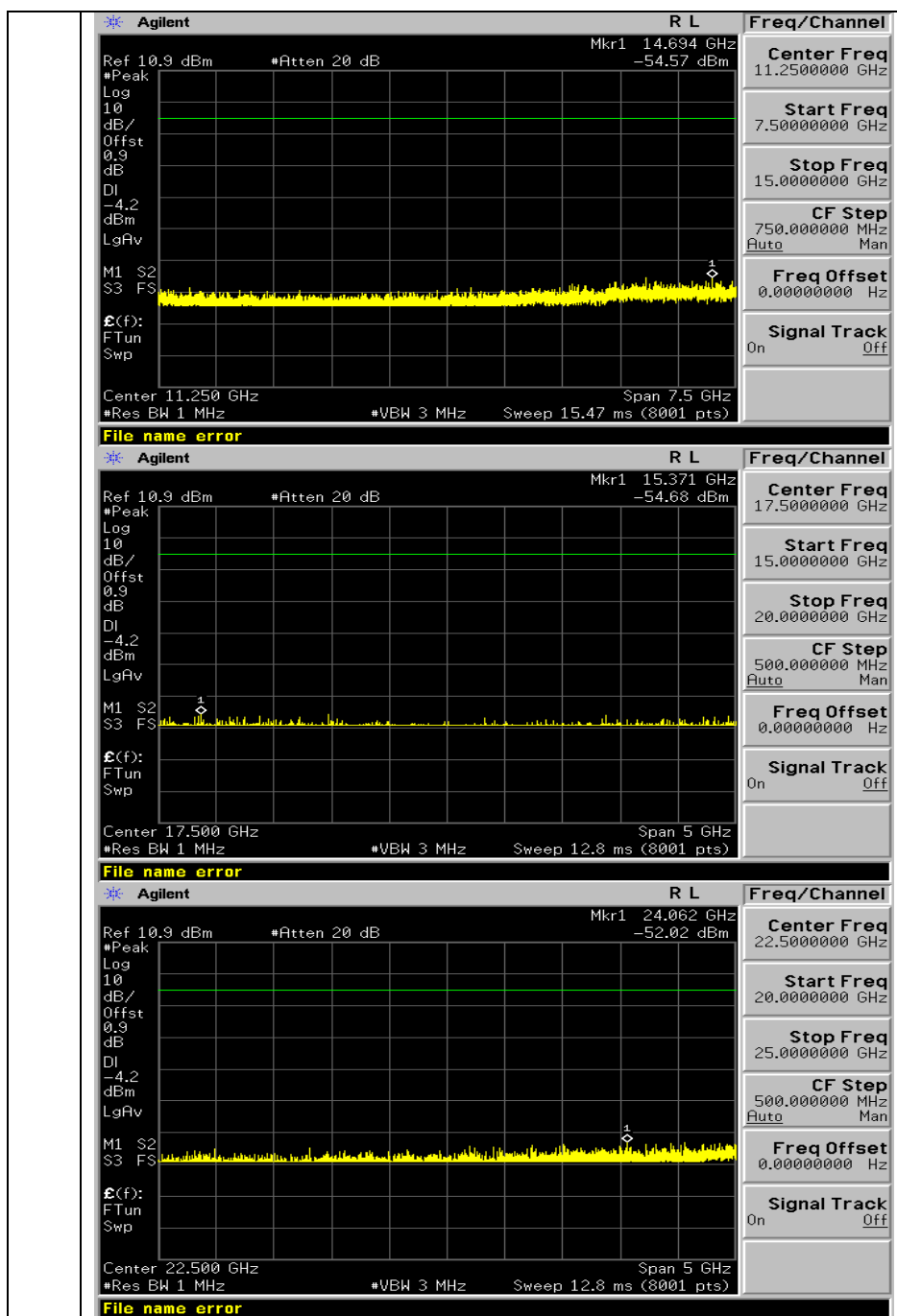


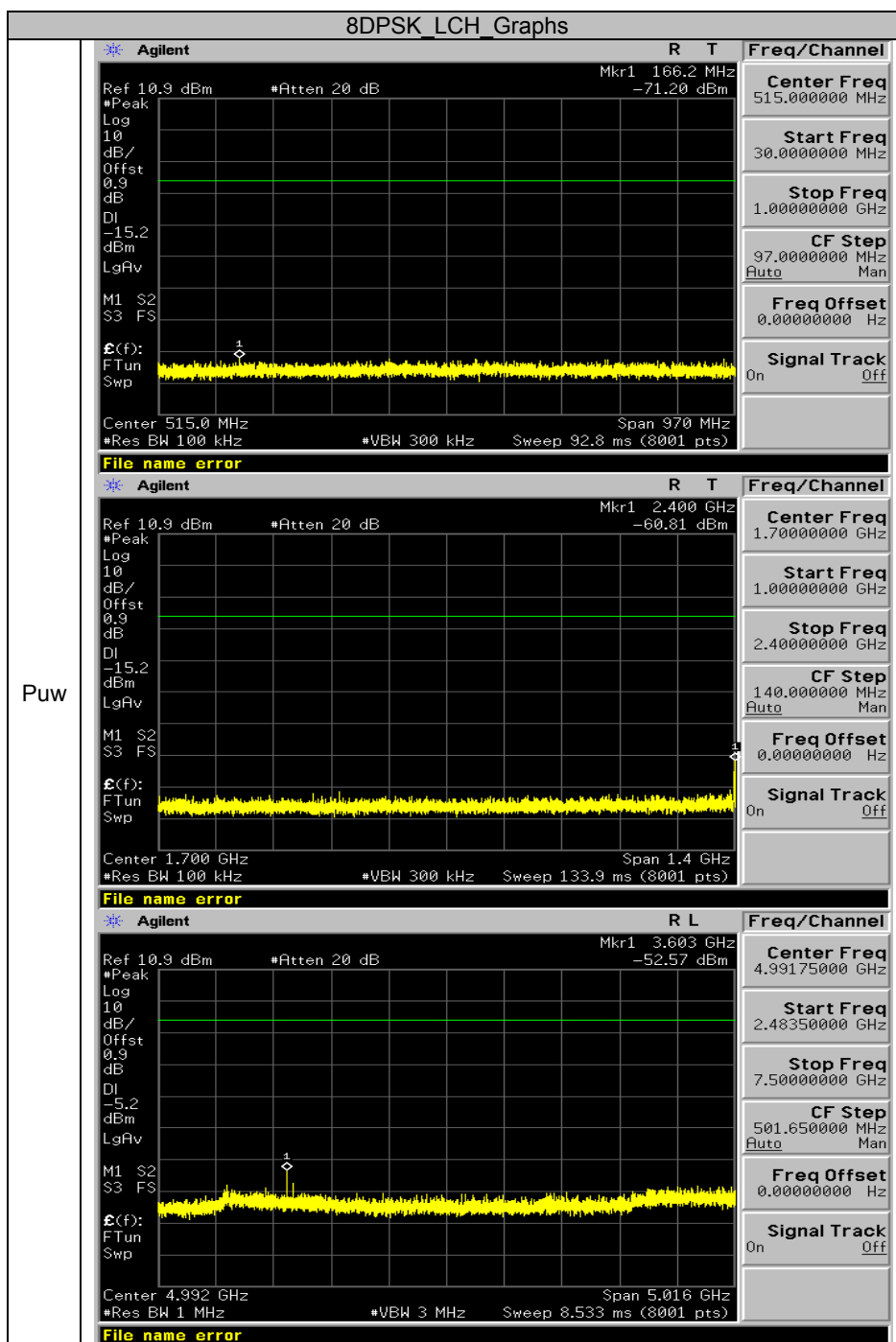


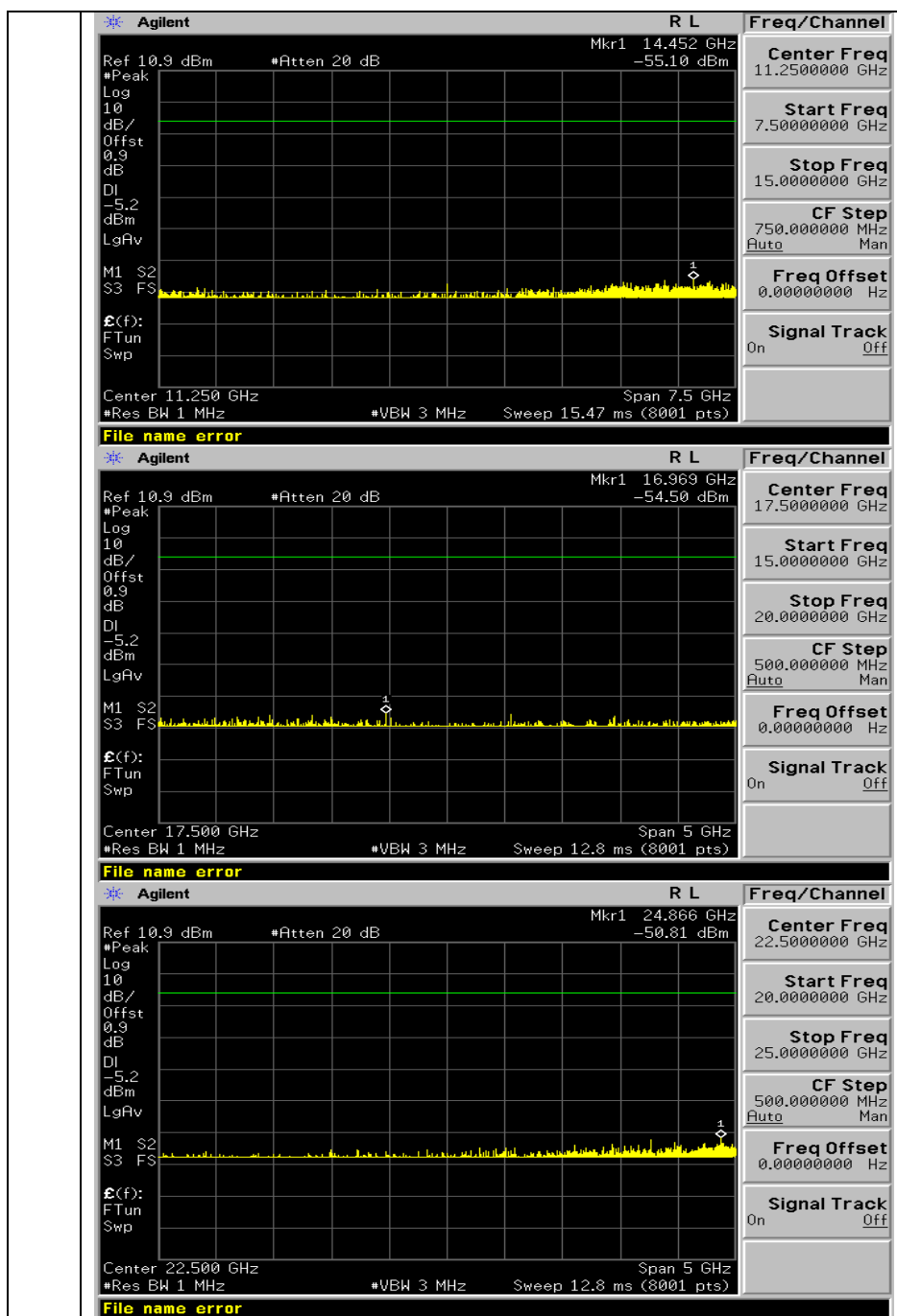


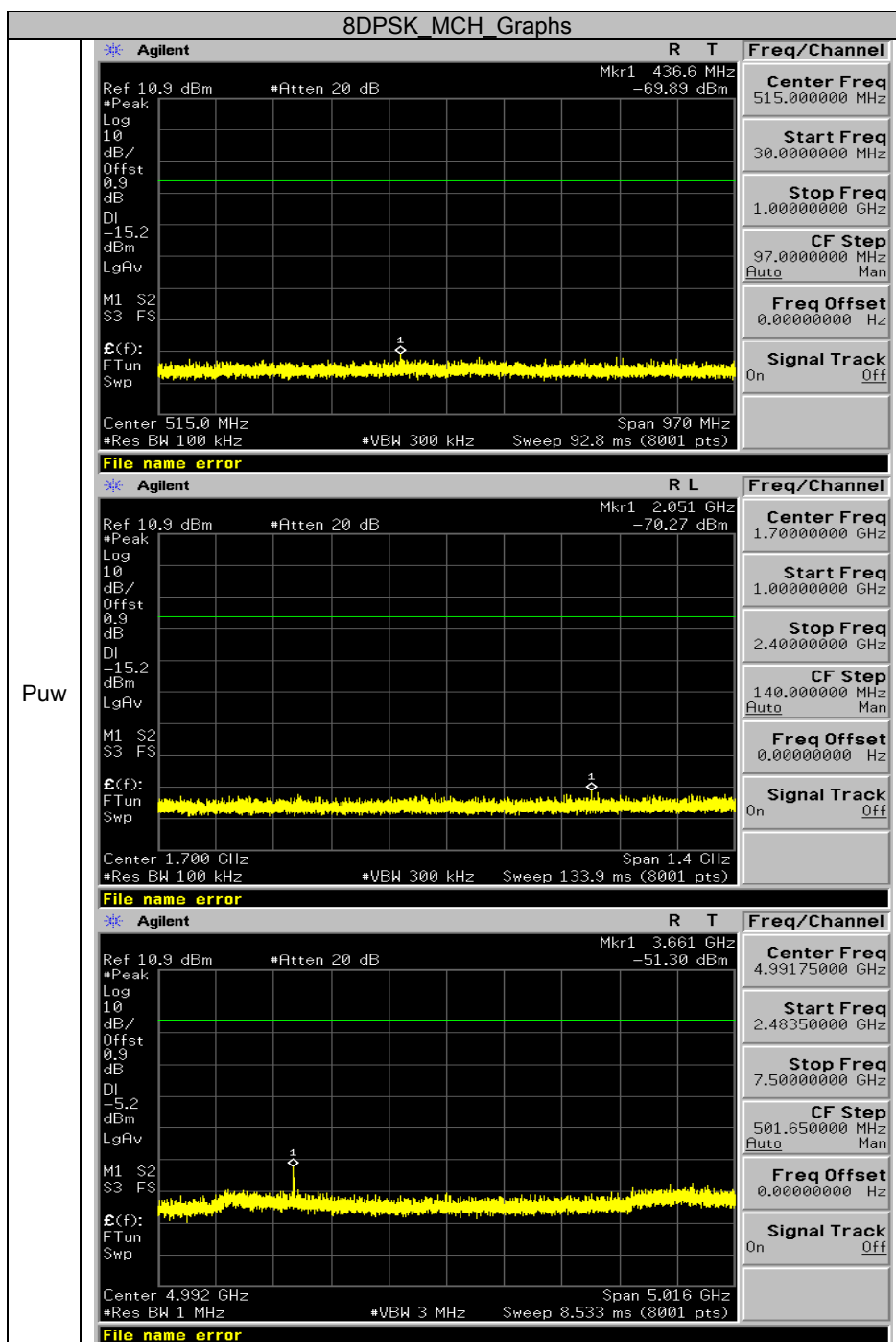


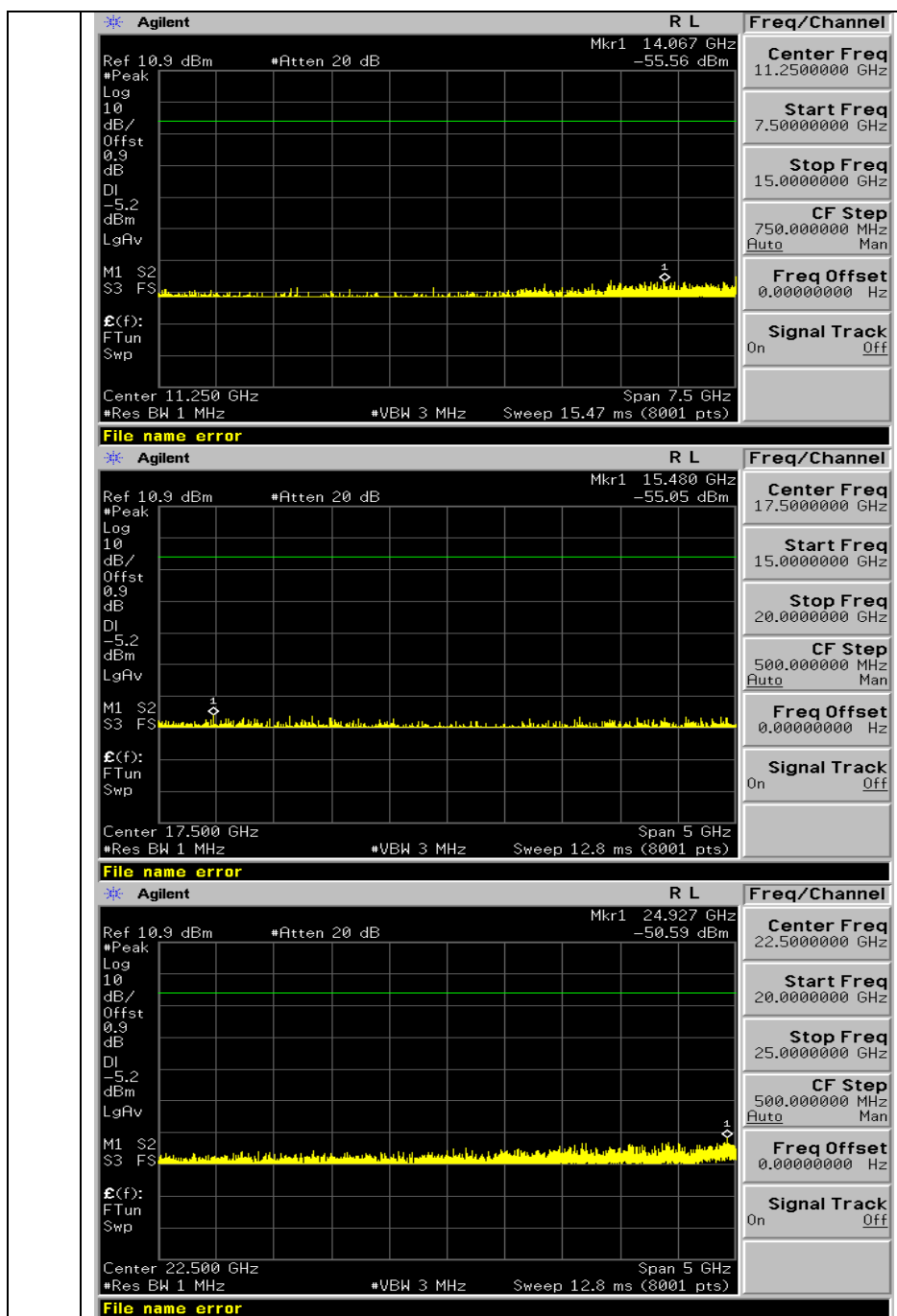


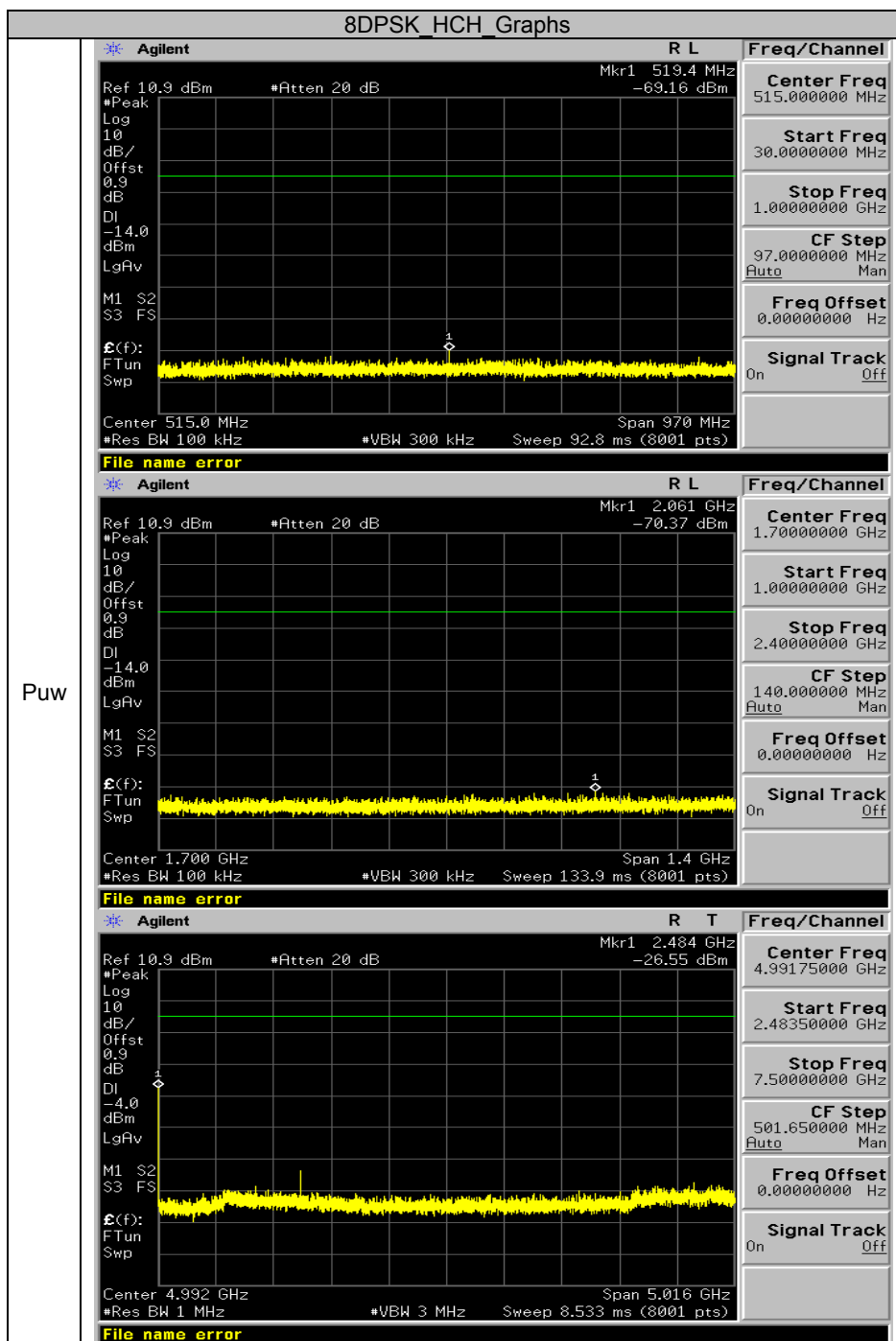


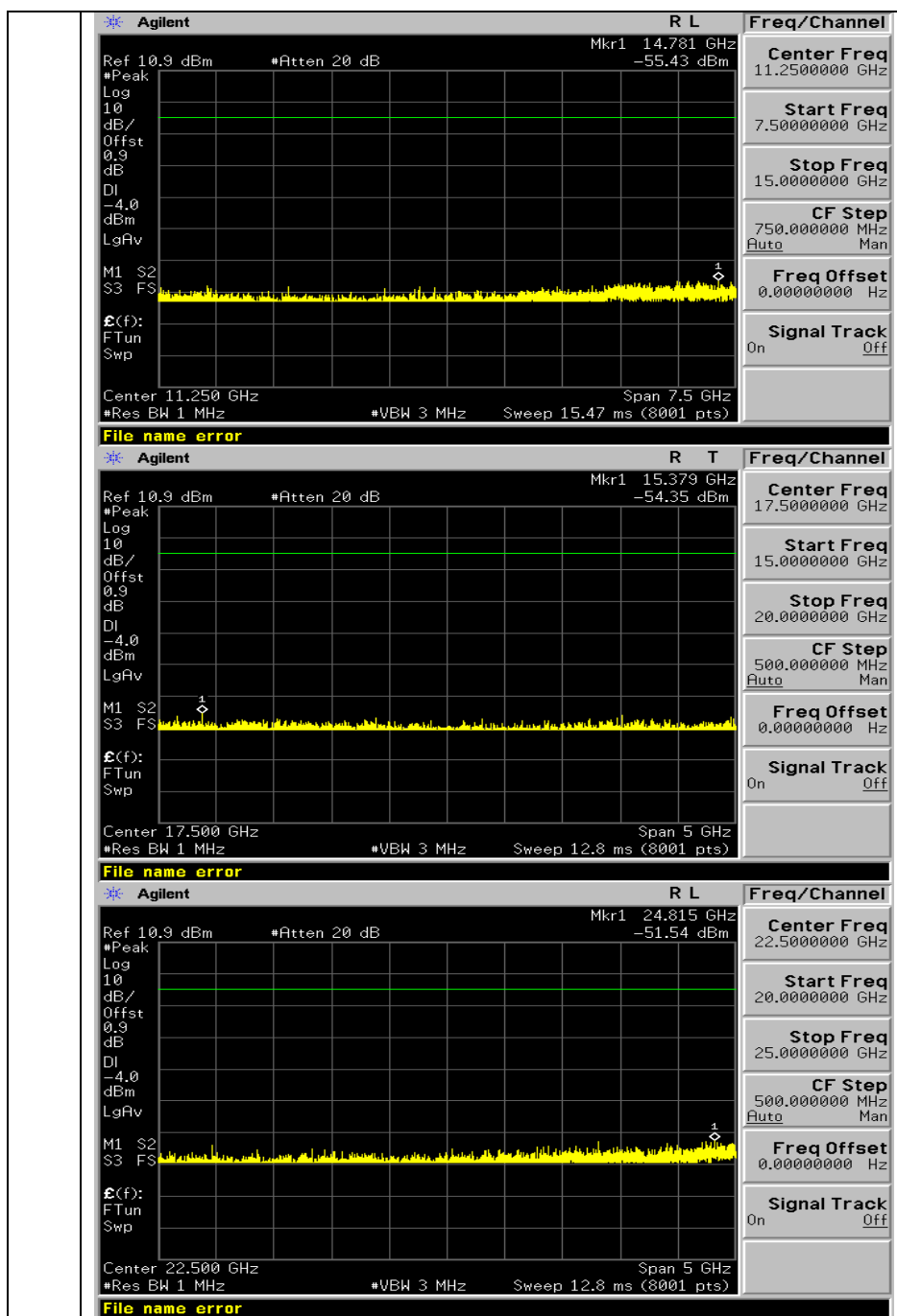












10. RADIATED EMISSION

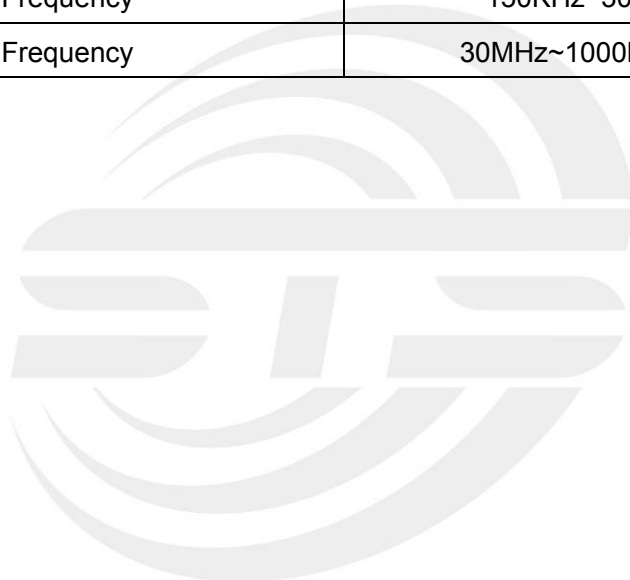
10.1. MEASUREMENT PROCEDURE

1. Configure the EUT according to ANSI C63.4. 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.
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.

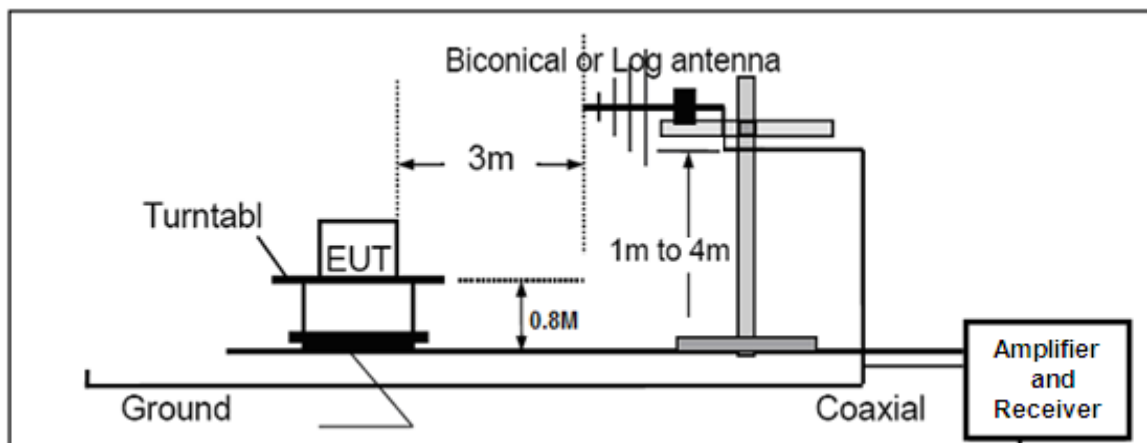
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

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

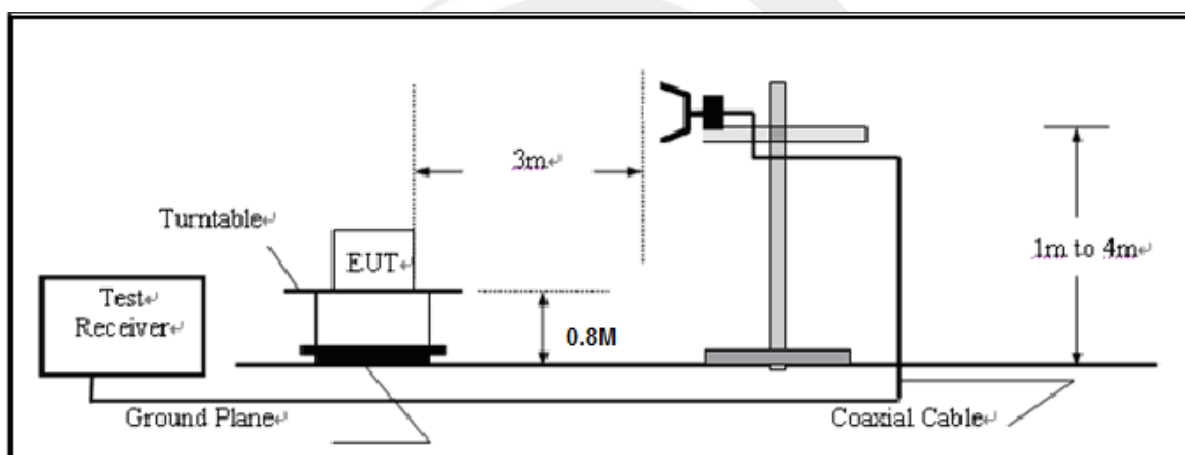


10.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

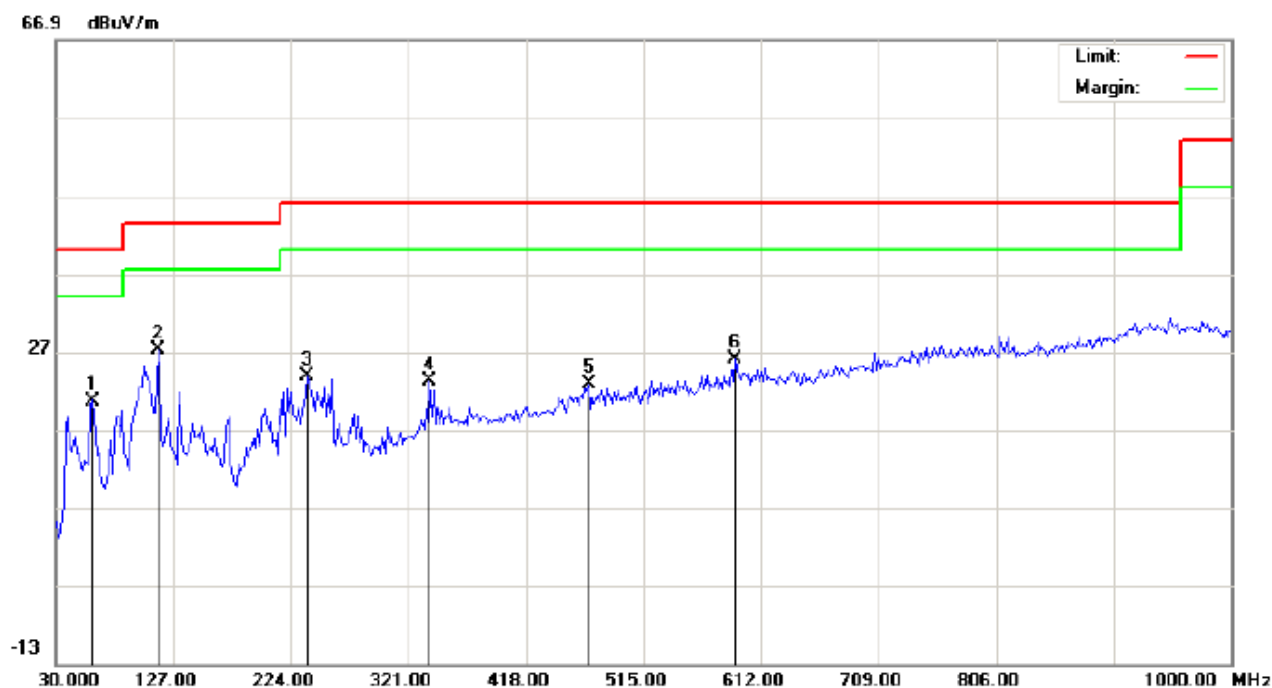


10.3. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ-Horizontal



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: tablet pc
M/N: PC7088
Mode: High Channel GFSK
Note:

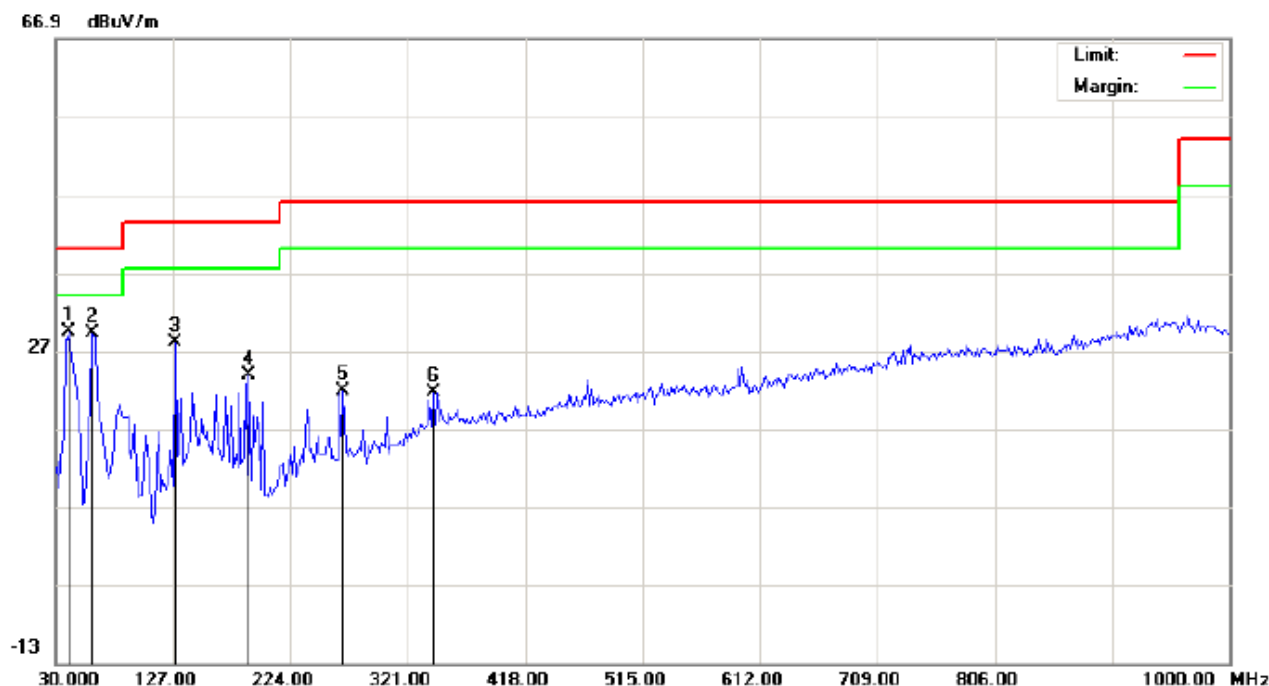
Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 60 %

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		60.7167	9.61	11.09	20.70	40.00	-19.30	peak			
2	*	114.0667	15.72	11.45	27.17	43.50	-16.33	peak			
3		236.9333	10.35	13.40	23.75	46.00	-22.25	peak			
4		338.7833	5.26	17.99	23.25	46.00	-22.75	peak			
5		469.7333	1.94	20.80	22.74	46.00	-23.26	peak			
6		590.9833	2.46	23.50	25.96	46.00	-20.04	peak			

RESULT: PASS

RADIATED EMISSION BELOW 1GHZ-Vertical



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: tablet pc
M/N: PC7088
Mode: High Channel GFSK
Note:

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

Temperature: 26
Humidity: 60 %

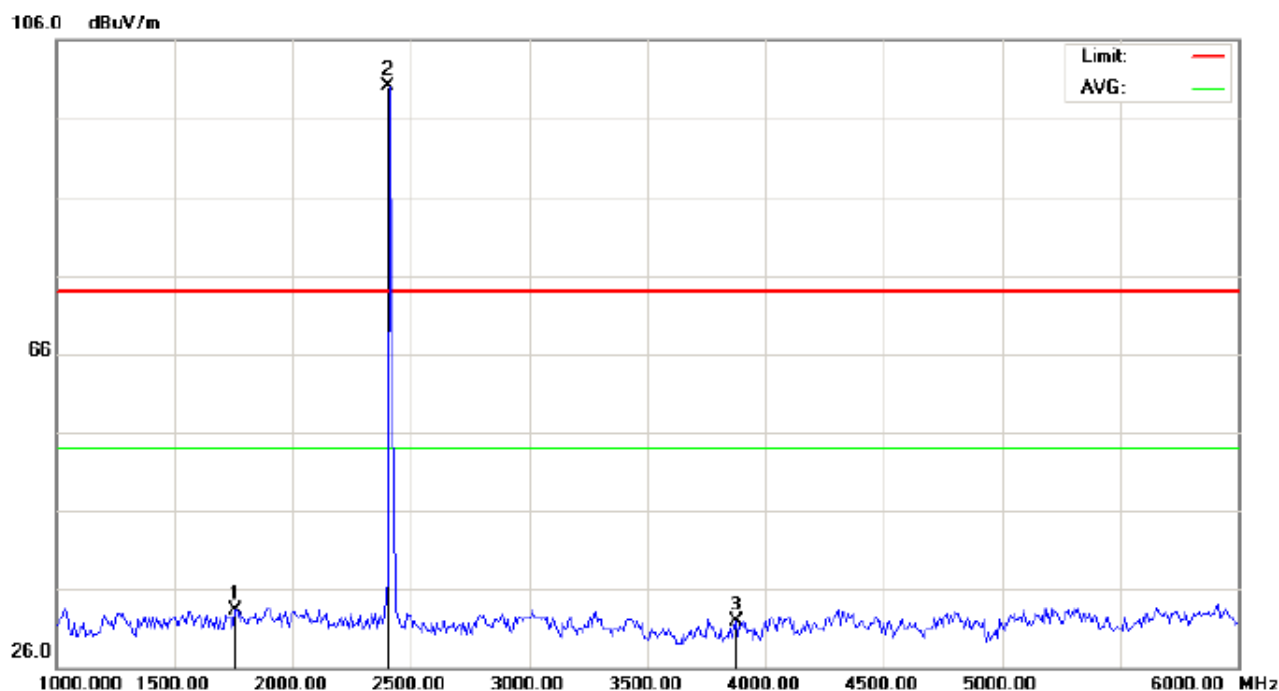
No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	41.3167	20.60	8.81	29.41	40.00	-10.59	peak			
2		60.7167	21.30	7.87	29.17	40.00	-10.83	peak			
3		128.6167	17.62	10.45	28.07	43.50	-15.43	peak			
4		190.0500	12.35	11.52	23.87	43.50	-19.63	peak			
5		267.6500	7.36	14.43	21.79	46.00	-24.21	peak			
6		342.0167	3.47	18.21	21.68	46.00	-24.32	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)-LOW CHANNEL-HORIZONTAL

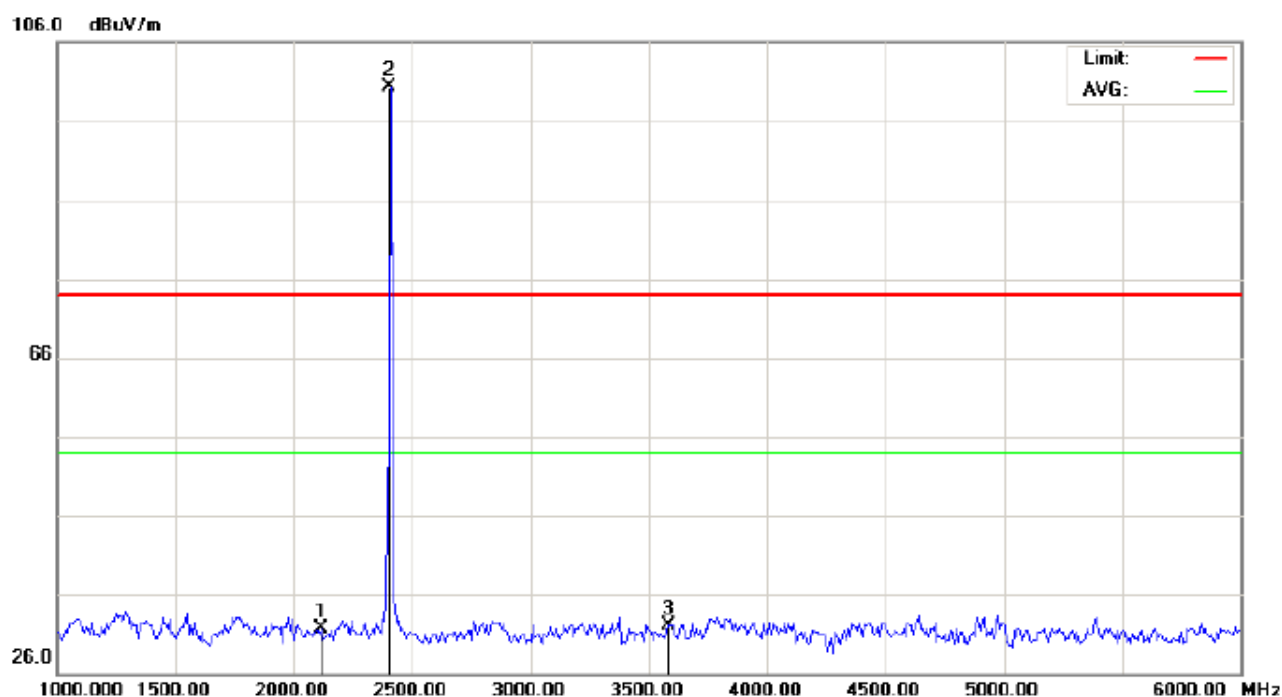


Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
Mode: Low Channel GFSK
Note:

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		1758.333	45.93	-12.66	33.27	74.00	-40.73	peak			
2	*	2402.000	109.83	-9.68	100.15	74.00	26.15	peak			
3		3875.000	37.57	-5.58	31.99	74.00	-42.01	peak			

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL

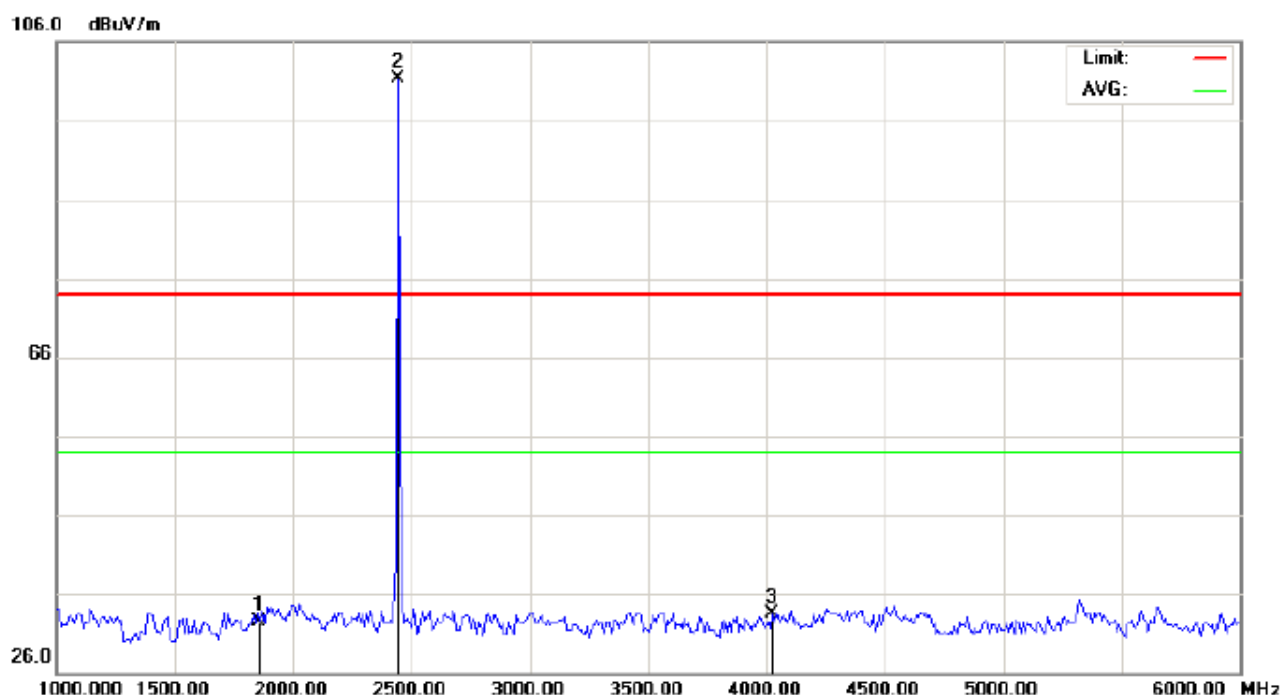


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
Mode: Low Channel GFSK
Note:

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		2116.667	41.61	-9.99	31.62	74.00	-42.38	peak			
2	*	2402.000	110.08	-9.68	100.40	74.00	26.40	peak			
3		3583.333	39.54	-7.38	32.16	74.00	-41.84	peak			

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL

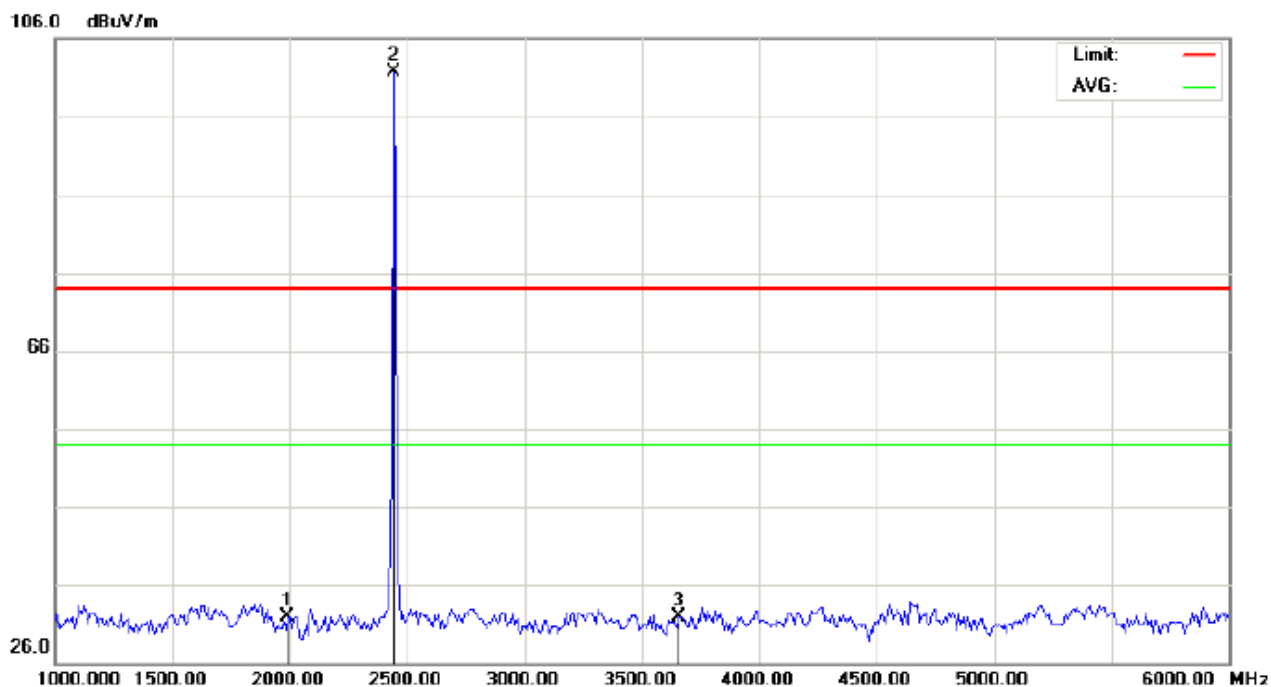


Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
Mode: Middle Channel GFSK
Note:

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		1858.333	44.21	-11.61	32.60	74.00	-41.40	peak			
2	*	2441.000	110.87	-9.63	101.24	74.00	27.24	peak			
3		4025.000	38.27	-4.72	33.55	74.00	-40.45	peak			

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL

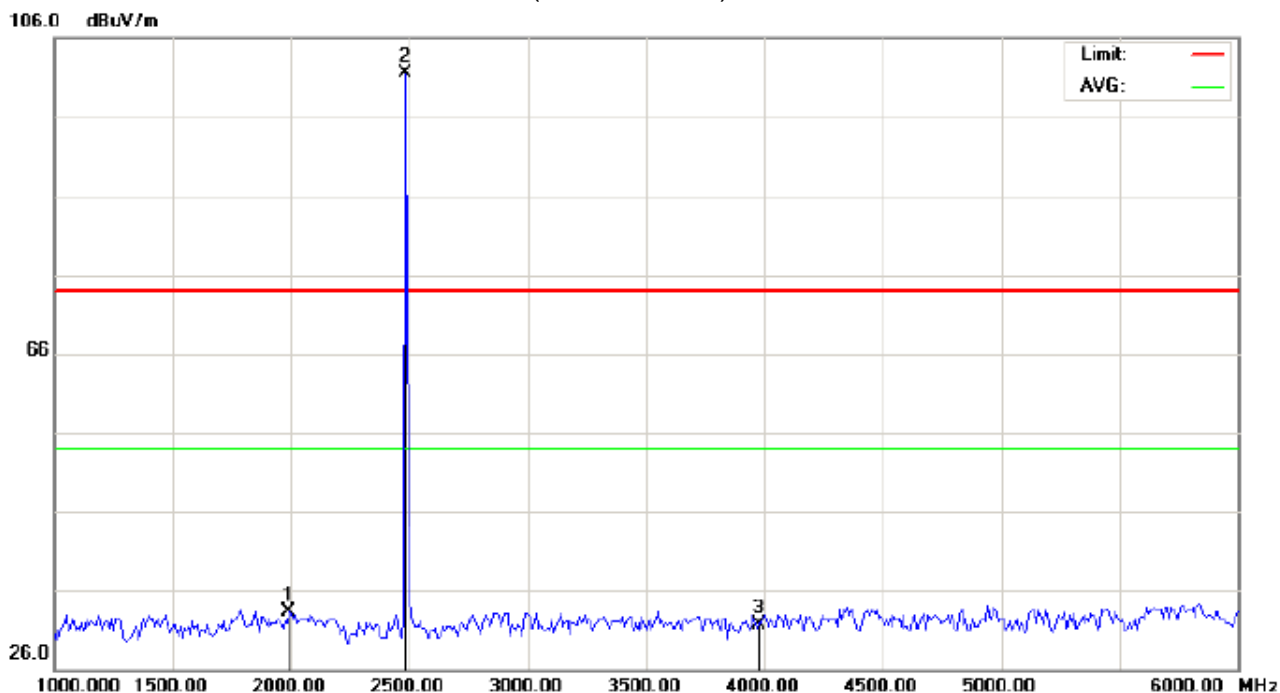


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
Mode: Middle Channel GFSK
Note:

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		1991.667	42.06	-10.21	31.85	74.00	-42.15	peak			
2	*	2441.000	111.30	-9.63	101.67	74.00	27.67	peak			
3		3658.333	38.85	-6.91	31.94	74.00	-42.06	peak			

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL

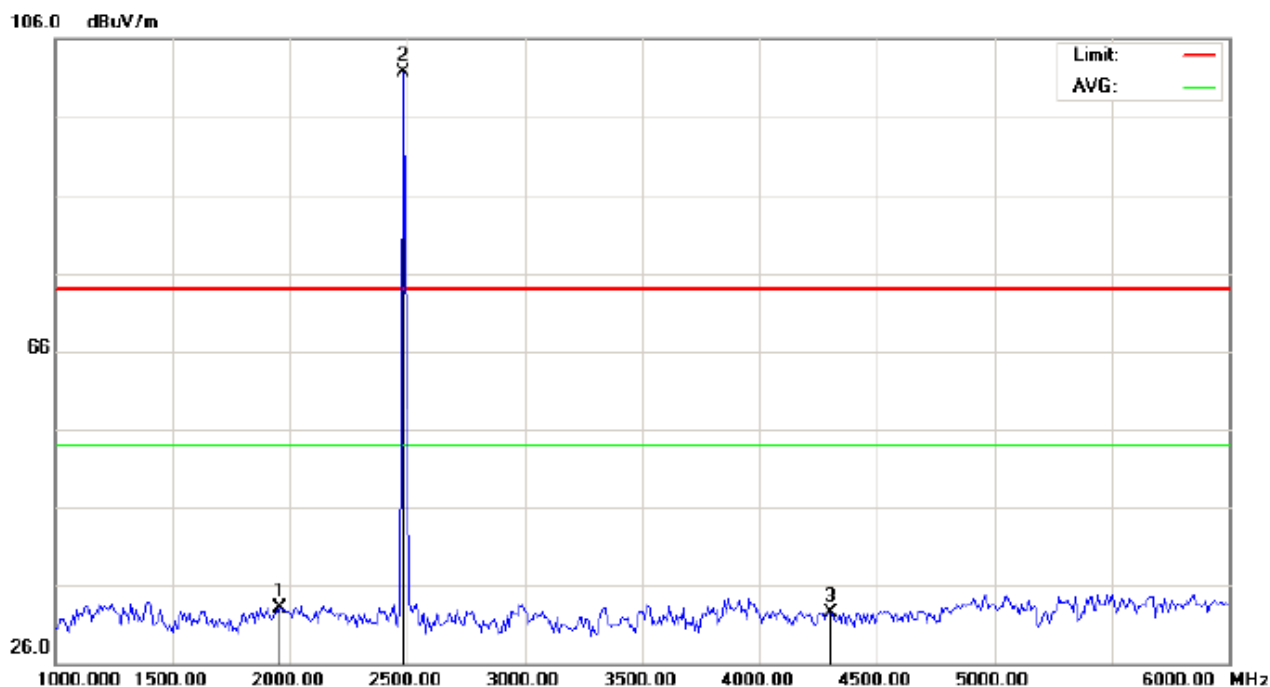


Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
Mode: High Channel GFSK
Note:

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		1991.667	43.44	-10.21	33.23	74.00	-40.77	peak			
2	*	2480.000	111.17	-9.59	101.58	74.00	27.58	peak			
3		3975.000	36.76	-4.96	31.80	74.00	-42.20	peak			

RESULT: PASS

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
Mode: High Channel GFSK
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		1958.333	43.69	-10.56	33.13	74.00	-40.87	peak			
2	*	2480.000	111.38	-9.59	101.79	74.00	27.79	peak			
3		4300.000	36.23	-3.79	32.44	74.00	-41.56	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

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

11. BAND EDGE EMISSION

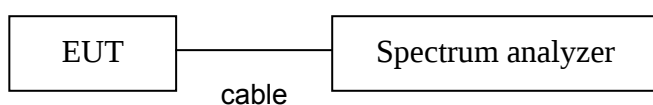
11.1. MEASUREMENT PROCEDURE

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

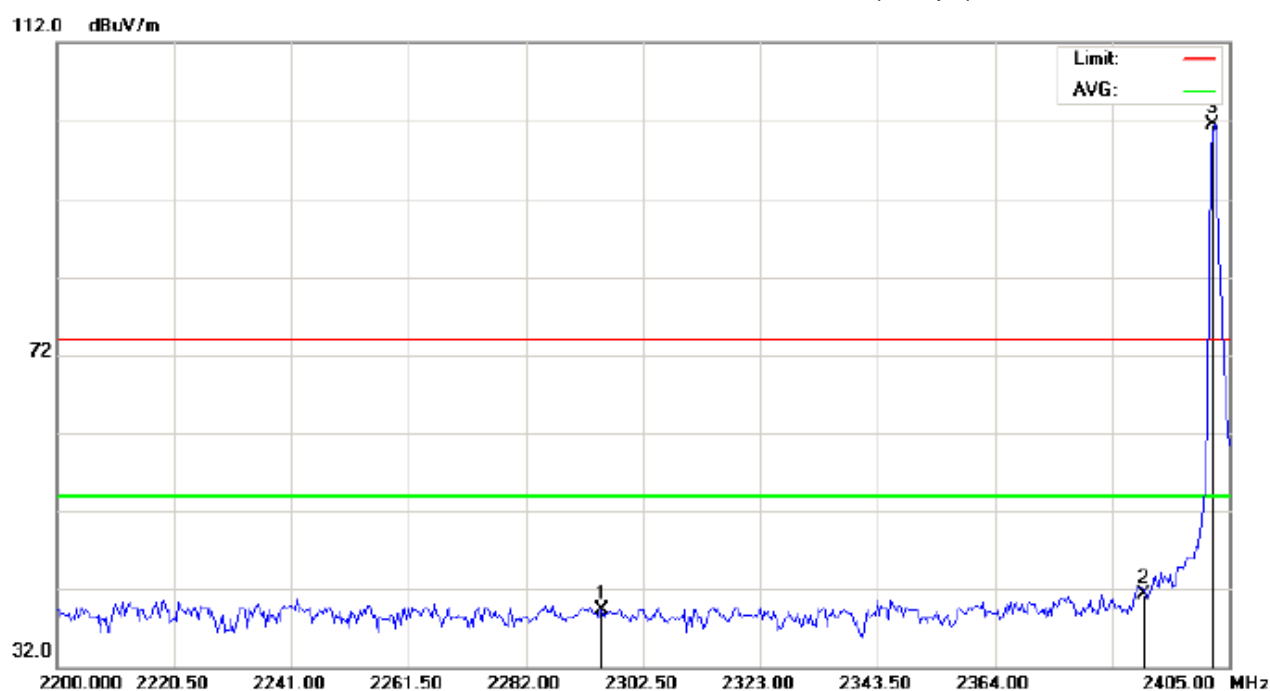
Radiated same as 10.2

Conducted set up



11.3. Radiated TEST RESULT

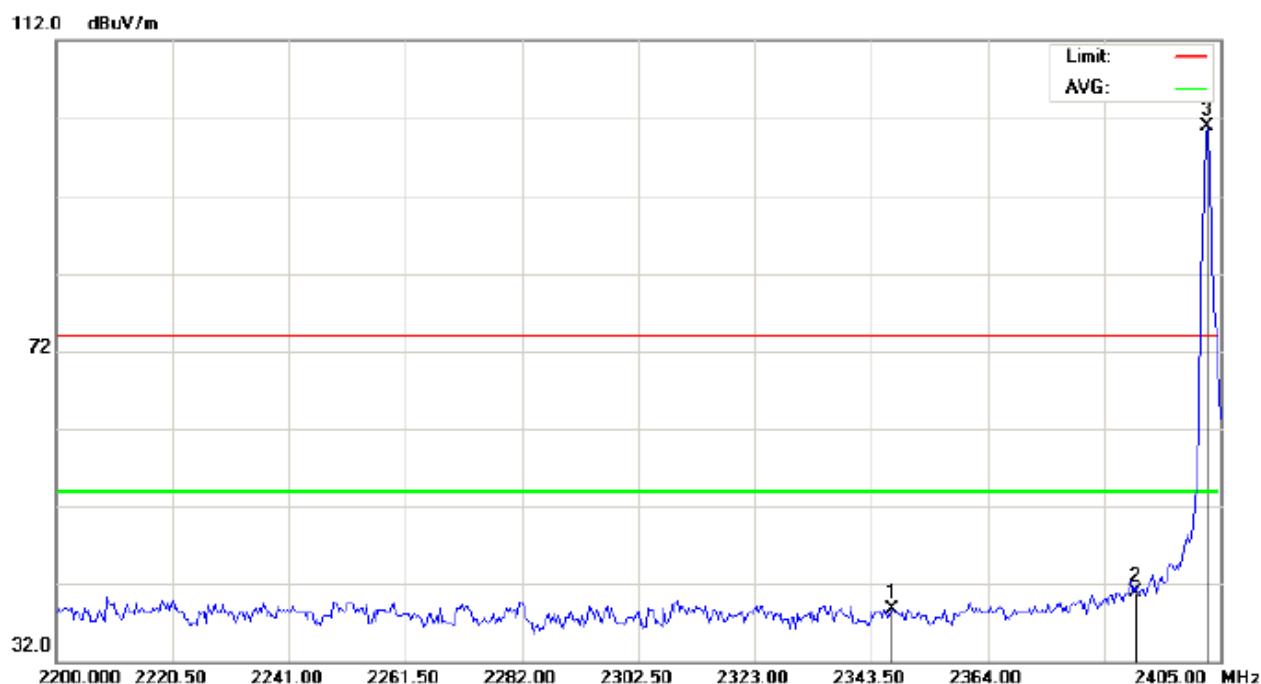
TEST PLOT OF BAND EDGE FOR LOW CHANNEL (3Mbps)-Horizontal



Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
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		2295.325	49.12	-9.79	39.33	74.00	-34.67	peak			
2		2390.000	50.94	-9.69	41.25	74.00	-32.75	peak			
3	*	2402.000	111.23	-9.68	101.55	74.00	27.55	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL (3Mbps)-Vertical



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: tablet pc

Distance:

M/N: PC7088

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		2347.258	48.51	-9.74	38.77	74.00	-35.23	peak			
2		2390.000	50.65	-9.69	40.96	74.00	-33.04	peak			
3	*	2402.608	110.68	-9.68	101.00	74.00	27.00	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (3Mbps)-Horizontal



Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
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	*	2480.000	111.05	-9.59	101.46	74.00	27.46	peak			
2		2483.500	52.38	-9.59	42.79	74.00	-31.21	peak			
3		2491.200	49.87	-9.58	40.29	74.00	-33.71	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (3Mbps)-Vertical



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7088
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	*	2480.000	110.95	-9.59	101.36	74.00	27.36	peak			
2		2483.500	54.19	-9.59	44.60	74.00	-29.40	peak			
3		2489.917	49.83	-9.58	40.25	74.00	-33.75	peak			

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.

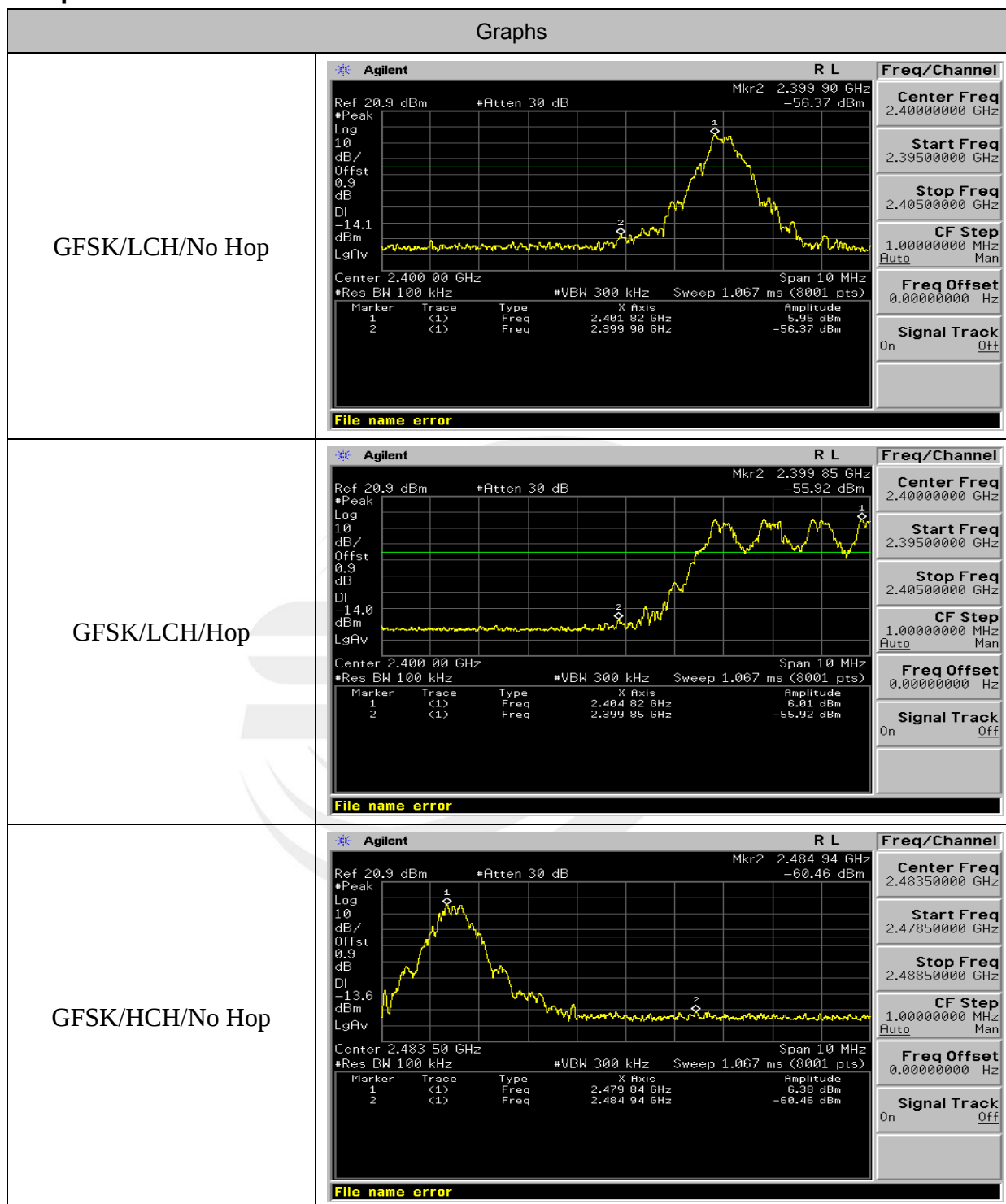
11.4 Conducted TEST RESULT

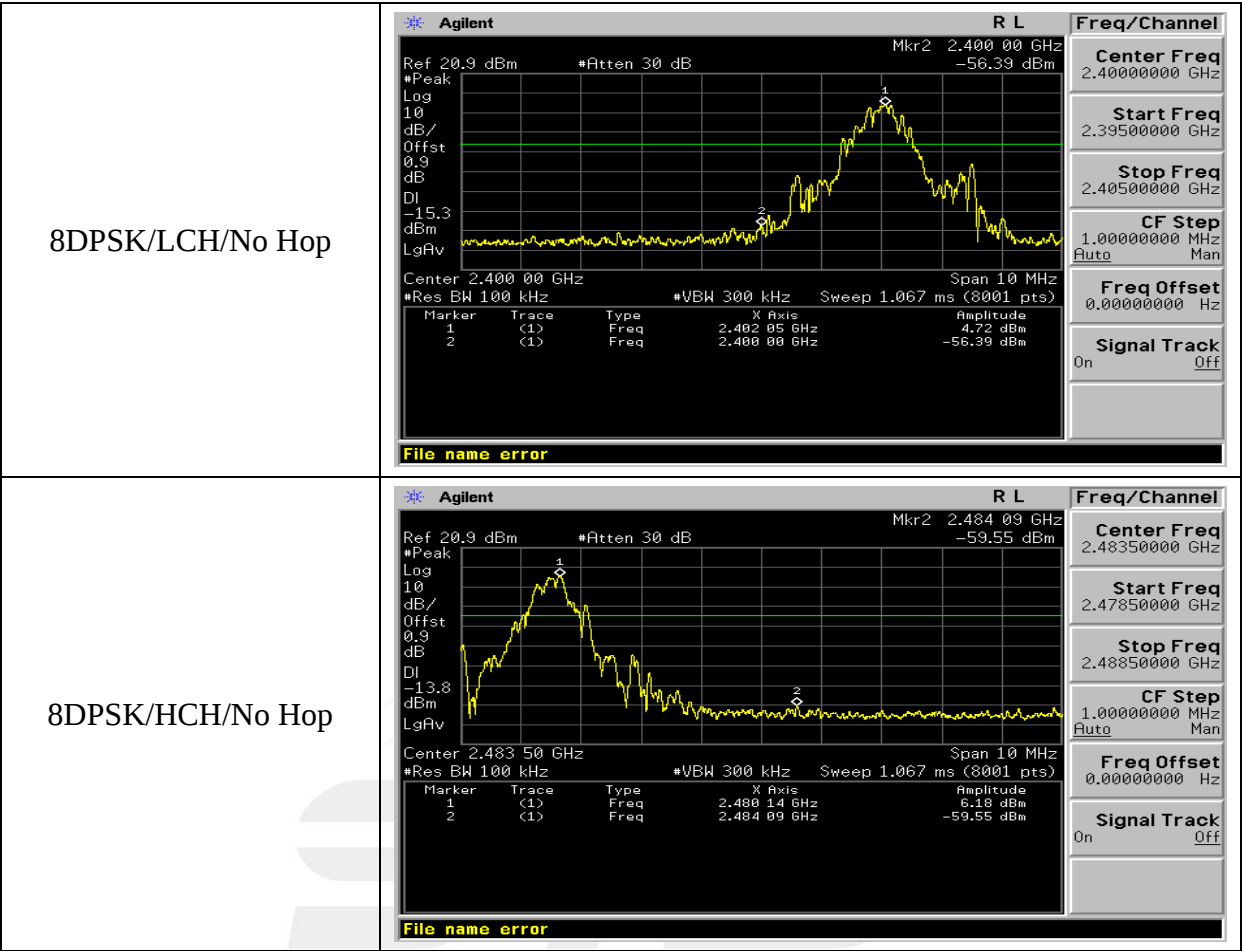
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBm]	Verdict
GFSK	LCH	2402	Off	-56.369	PASS
			On	-55.915	PASS
GFSK	HCH	2480	Off	-60.46	PASS
			On	-59.367	PASS
$\pi/4$ DQPSK	LCH	2402	Off	-55.957	PASS
$\pi/4$ DQPSK	HCH	2480	Off	-60.206	PASS
8DPSK	LCH	2402	Off	-56.387	PASS
8DPSK	HCH	2480	Off	-59.549	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

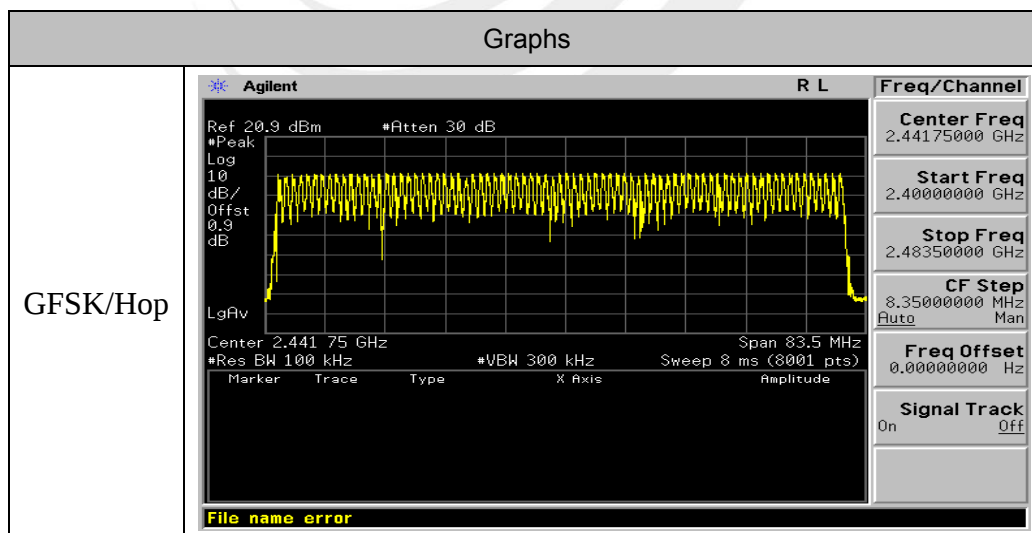
The same as described in section 6

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

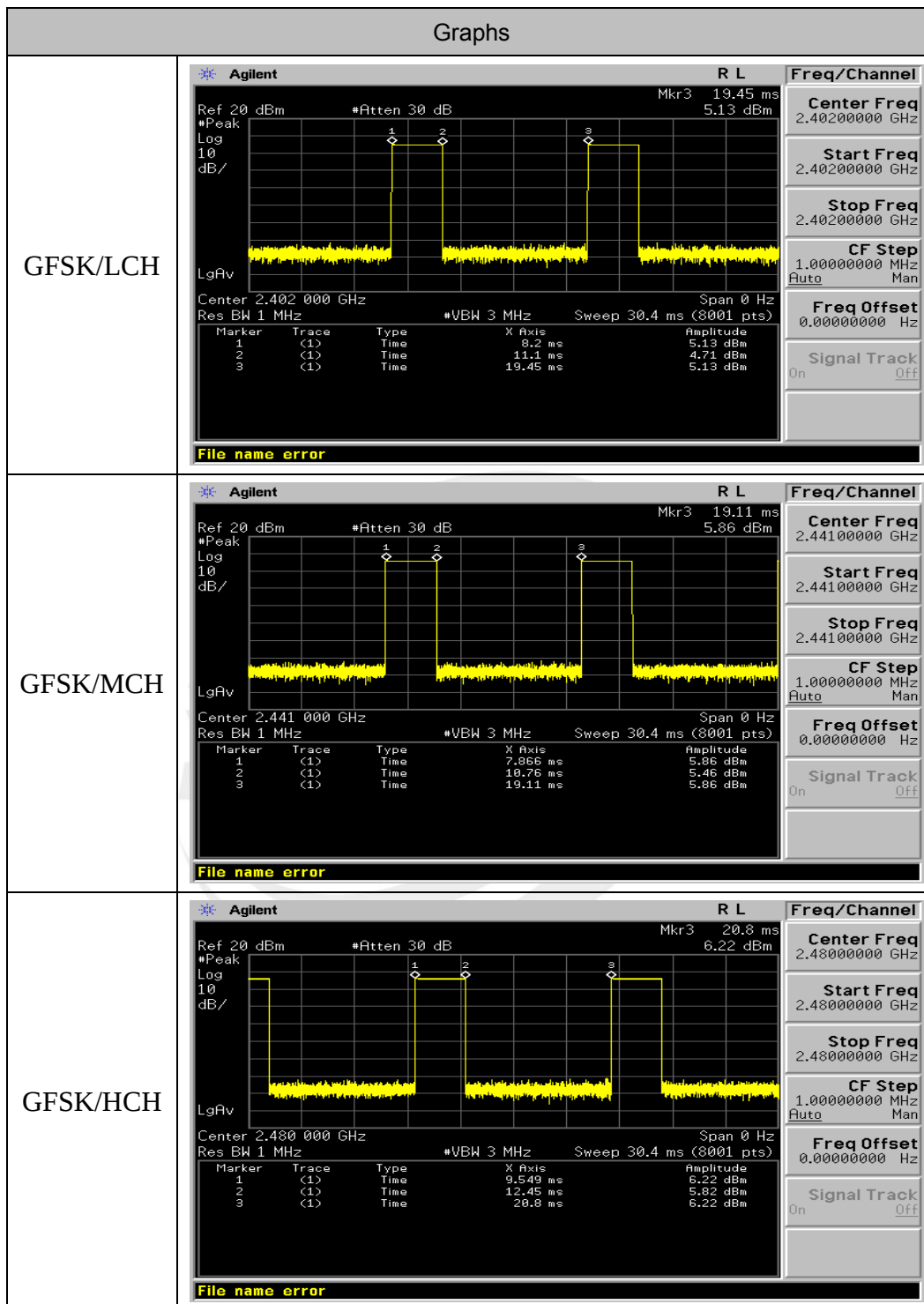
13.4. LIMITS AND MEASUREMENT RESULT

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

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

Mode	Channel.	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Verdict	Limit (ms)
GFSK	LCH	2.896	106.67	309.872	PASS	400
GFSK	MCH	2.896	106.67	309.872	PASS	400
GFSK	HCH	2.896	106.67	309.872	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

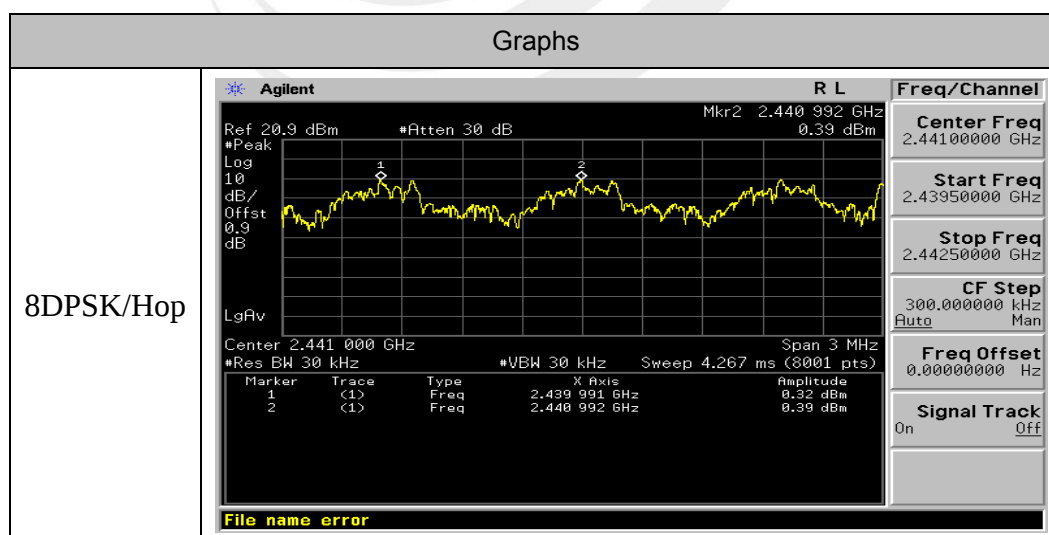
The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
8DPSK	Hop	1.001	PASS

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

Test Graph



15. FCC LINE CONDUCTED EMISSION TEST

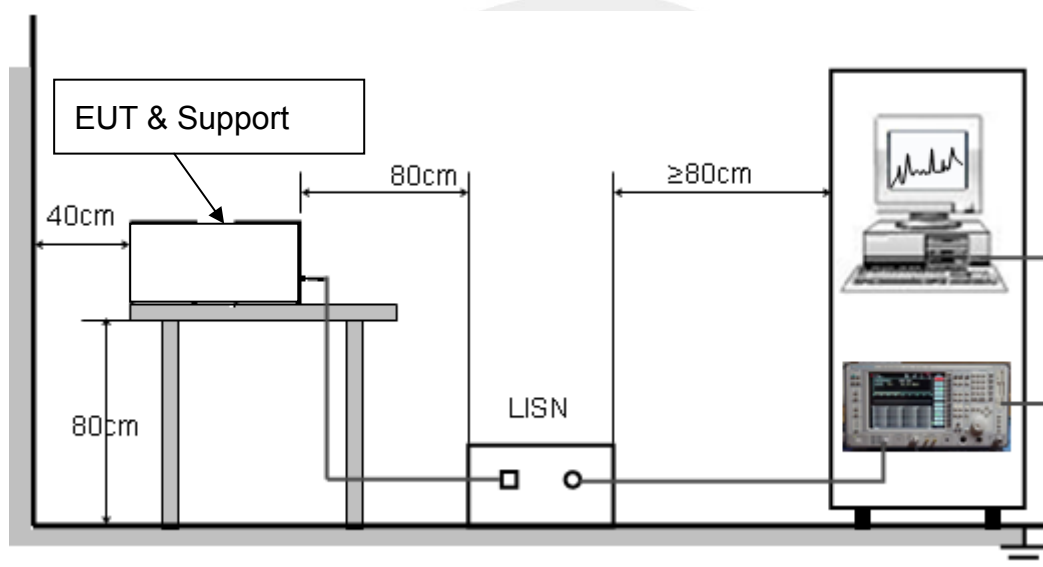
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 C63.4 (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 C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
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.

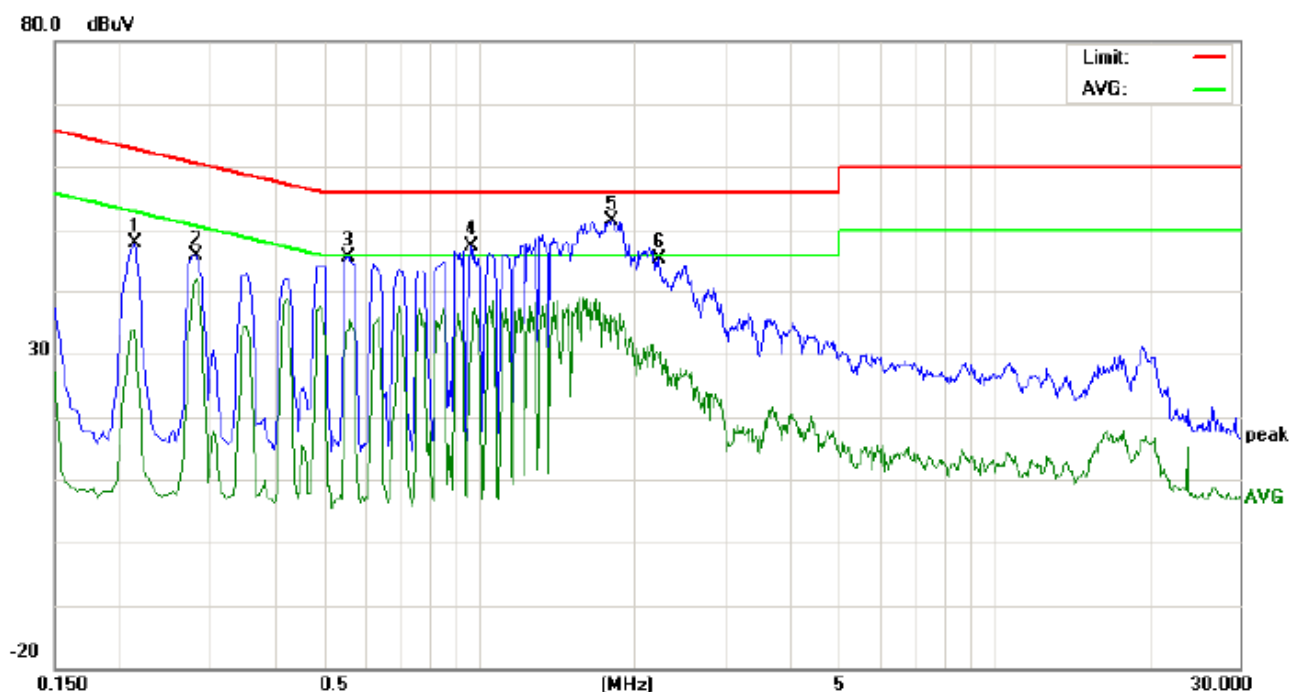
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

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



Site: Conduction

Phase: **L1**

Temperature: 26

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: tablet pc

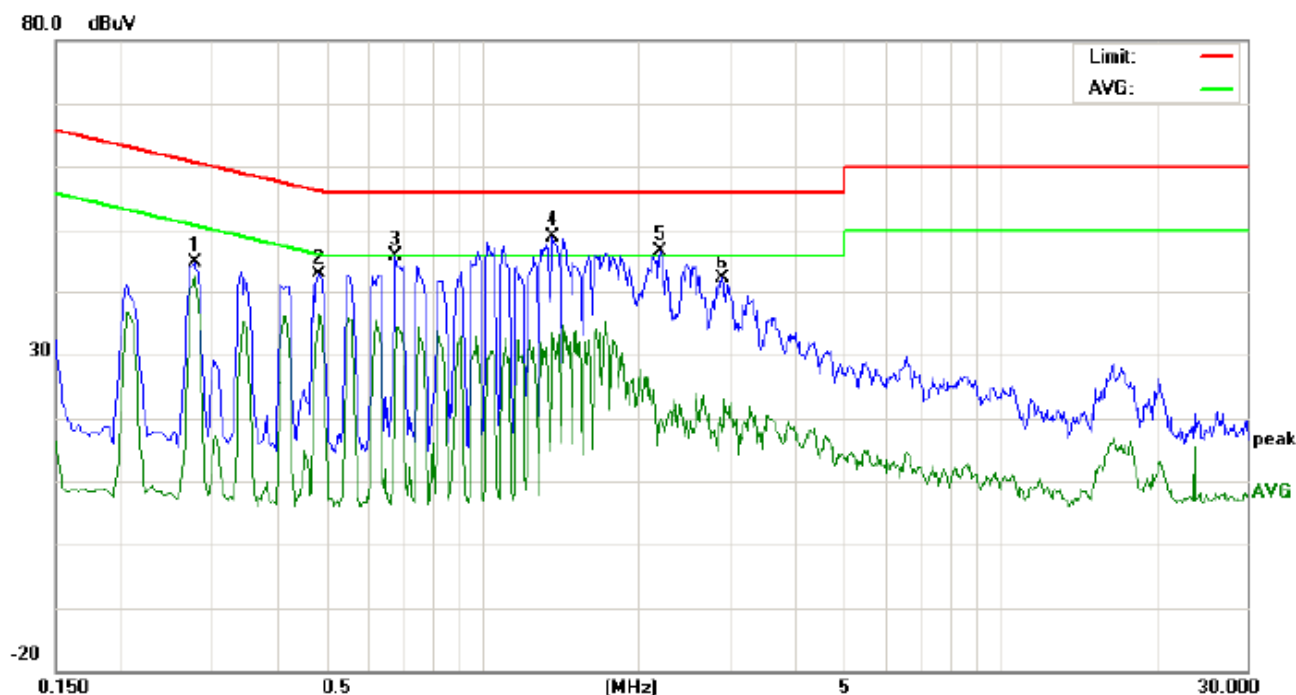
M/N: PC7088

Mode: High Channel GFSK

Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2140	37.58		23.58	10.23	47.81		33.81	63.04	53.04	-15.23	-19.23	P	
2	0.2819	35.68		31.62	10.28	45.96		41.90	60.76	50.76	-14.80	-8.86	P	
3	0.5580	35.26		23.48	10.35	45.61		33.83	56.00	46.00	-10.39	-12.17	P	
4	0.9660	36.87		20.17	10.38	47.25		30.55	56.00	46.00	-8.75	-15.45	P	
5	1.8180	41.13		24.73	10.28	51.41		35.01	56.00	46.00	-4.59	-10.99	P	
6	2.2380	34.99		19.06	10.32	45.31		29.38	56.00	46.00	-10.69	-16.62	P	

Line Conducted Emission Test Line 2-N



Site: Conduction

Phase: **N**

Temperature: 26

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: tablet pc

M/N: PC7088

Mode: High Channel GFSK

Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2779	34.49		31.98	10.28	44.77		42.26	60.88	50.88	-16.11	-8.62	P	
2	0.4860	32.36		25.90	10.39	42.75		36.29	56.24	46.24	-13.49	-9.95	P	
3	0.6820	35.49		16.99	10.34	45.83		27.33	56.00	46.00	-10.17	-18.67	P	
4	1.3700	38.62		22.99	10.38	49.00		33.37	56.00	46.00	-7.00	-12.63	P	
5	2.2020	36.32		9.45	10.30	46.62		19.75	56.00	46.00	-9.38	-26.25	P	
6	2.9140	31.49		7.26	10.53	42.02		17.79	56.00	46.00	-13.98	-28.21	P	

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



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



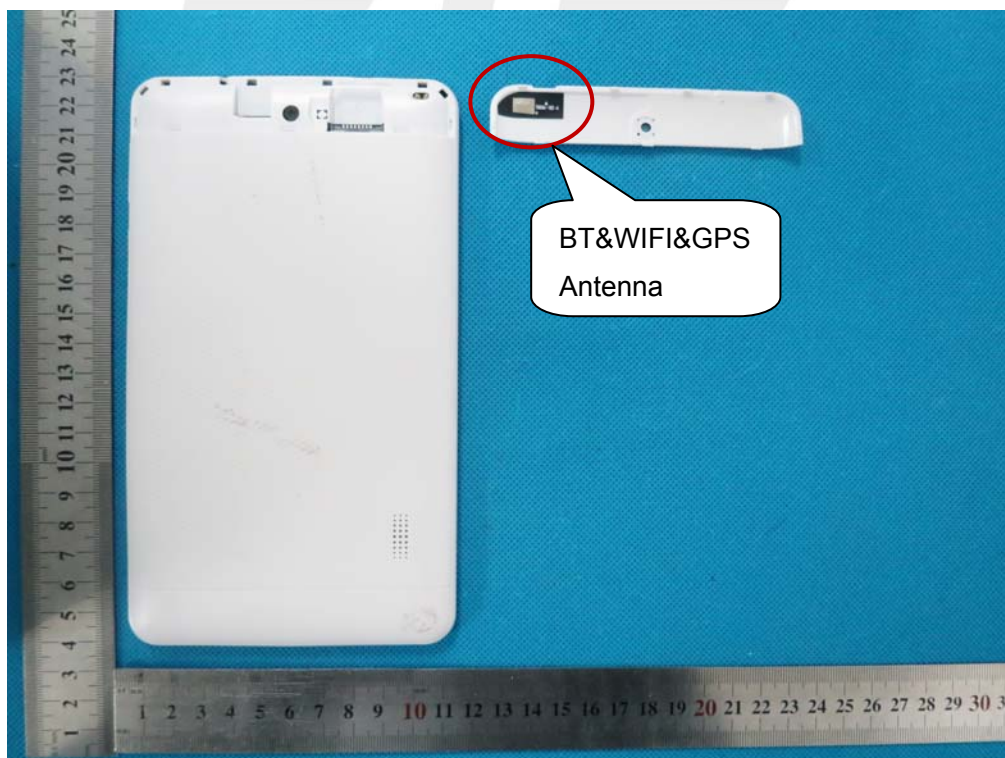
LEFT VIEW OF EUT



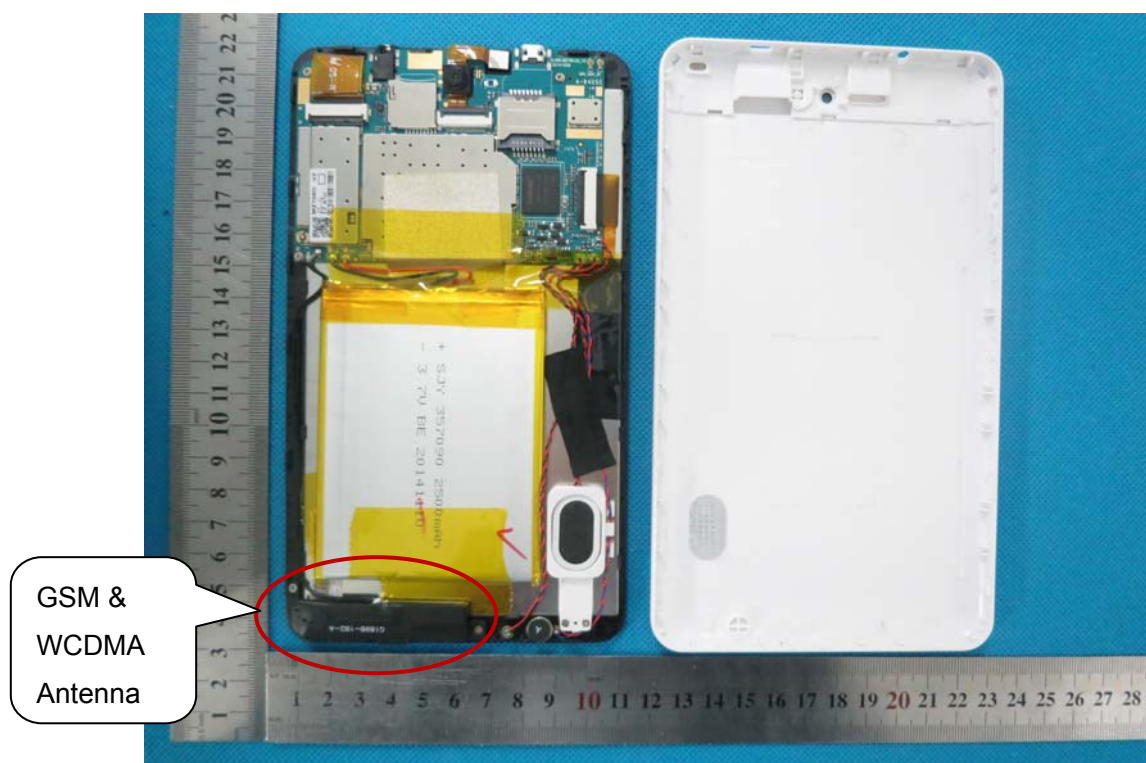
RIGHT VIEW OF EUT



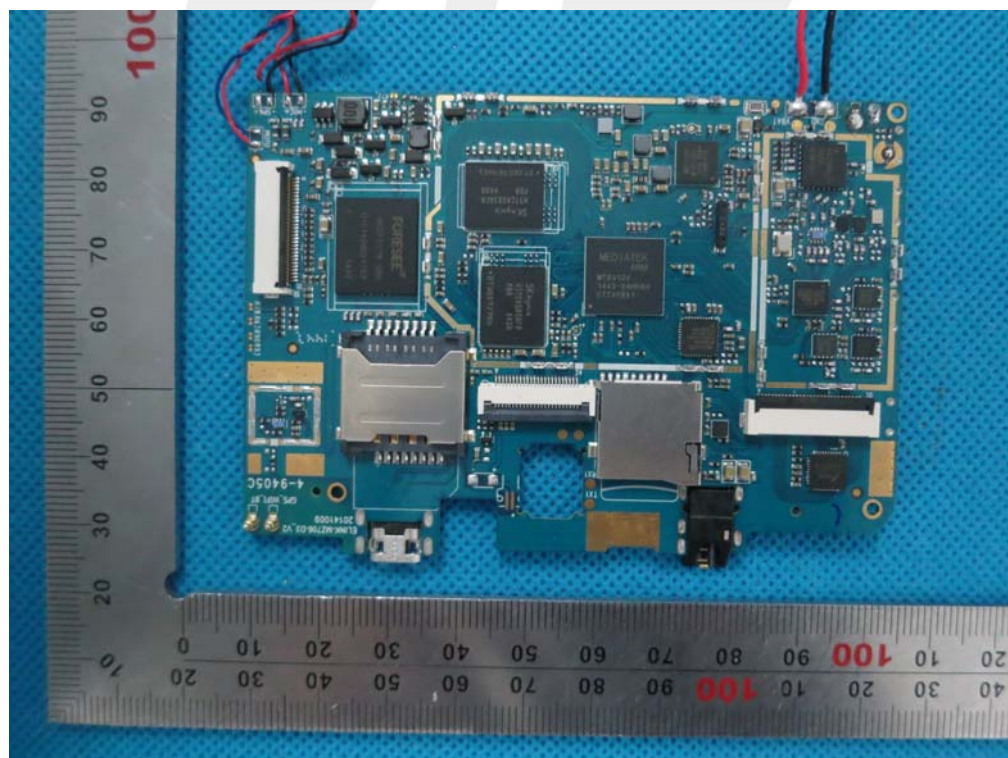
OPEN VIEW OF EUT-1



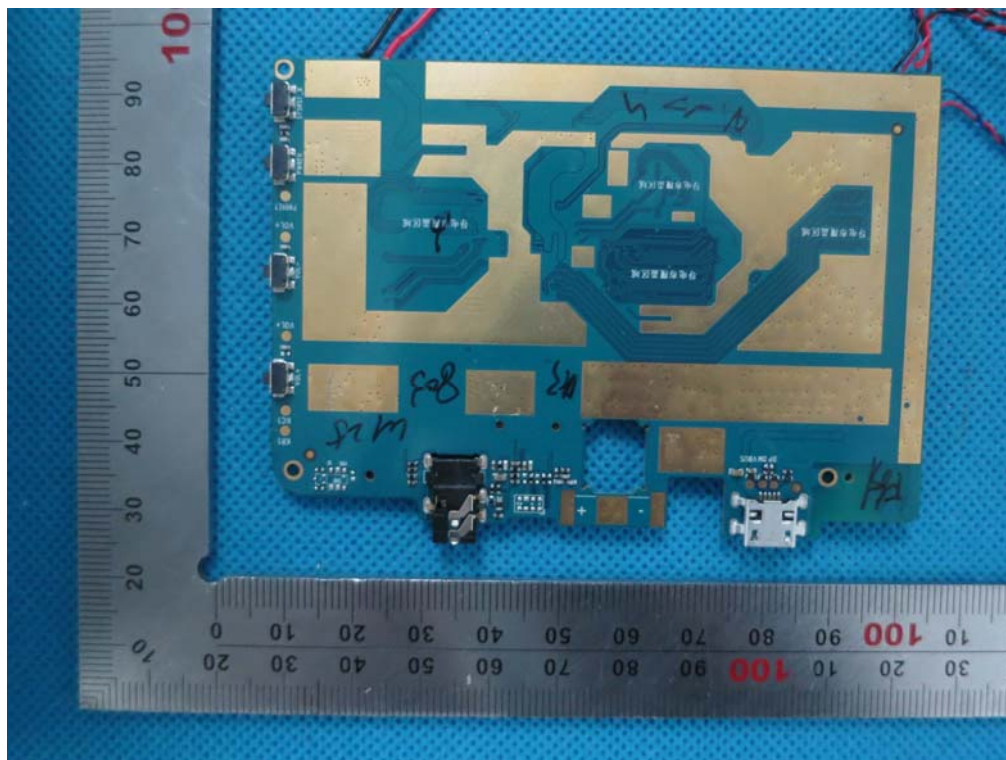
OPEN VIEW OF EUT-2



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



-----END OF REPORT-----