
FCC Test Report

Report No.: STS1502008F03

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 15.247

TEST PROCEDURE(S) : KDB 558074 v03r02

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-BGN/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 requirement of FCC Part 15 Rules requirement.

Prepared By



Tony Liu

Jan.31, 2015

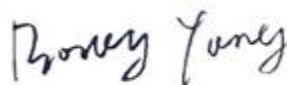
Checked By



Vita Li

Jan.31, 2015

Authorized By



Bovey Yang

Jan.31, 2015

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “tablet pc”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.412 GHz~2.462GHz
Output Power	IEEE 802.11b:9.95dBm; IEEE 802.11g:7.77dBm; IEEE 802.11n(20):7.66dBm; IEEE 802.11n(40):4.51dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11
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 Built-in Li-ion Battery

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11

For 40MHZ bandwidth system use Channel 3 to Channel 9

2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps)	
									800nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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

This submittal(s) (test report) is intended for **FCC ID: BRCPC7088** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules KDB 558074 D01 DTS Meas Guidance v03r02.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. 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 TX
2	Middle channel TX
3	High channel TX
4	Normal operating

Note:

Transmit by 802.11b with Data rate (1/2/5.5/11)

Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Data rate

(13.5/27/40.5/54/81/108/121.5/135)

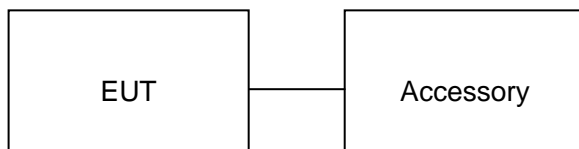
Note:

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Note
1	tablet pc	PC7088	FCCID:BRCPC7088	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

Note: All the accessories have been used during the test in conduction emission test.

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

Note: The EUT received power from DC3.7V lithium battery.

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 Sensor	R&S	NRP-Z23	07/25/2014	07/24/2015
PC	HP	4-1220TX	--	--
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. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For max average conducted output power test:

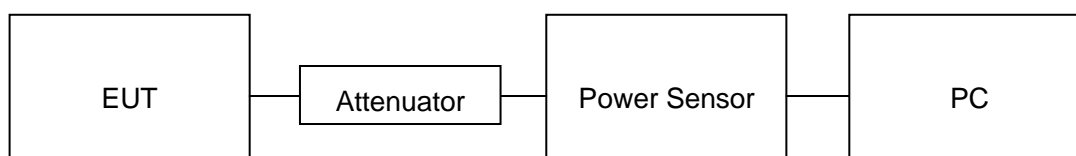
1. Connect EUT RF output port to power probe through an RF attenuator.
2. Connect the power probe to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note : The EUT was tested according to KDB 558074v03r02 for compliance to FCC 47CFR 15.247 requirements.



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

AVERAGE POWER SETUP



7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER
TEST MODE	802.11b with data rate 1

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	9.95	30	Pass
2.437	9.89	30	Pass
2.462	9.77	30	Pass

TEST ITEM	OUTPUT POWER
TEST MODE	802.11g with data rate 6

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	7.77	30	Pass
2.437	7.68	30	Pass
2.462	7.6	30	Pass

TEST ITEM	OUTPUT POWER
TEST MODE	802.11n 20 with data rate 6.5

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	7.66	30	Pass
2.437	7.57	30	Pass
2.462	7.51	30	Pass

TEST ITEM	OUTPUT POWER
TEST MODE	802.11n 40 with data rate 13.5

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	4.51	30	Pass
2.437	4.44	30	Pass
2.452	4.39	30	Pass



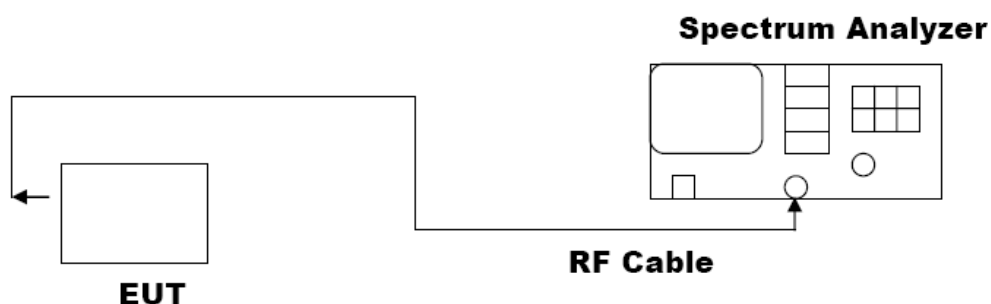
8. 6DB BANDWIDTH

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 SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq 3 \times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

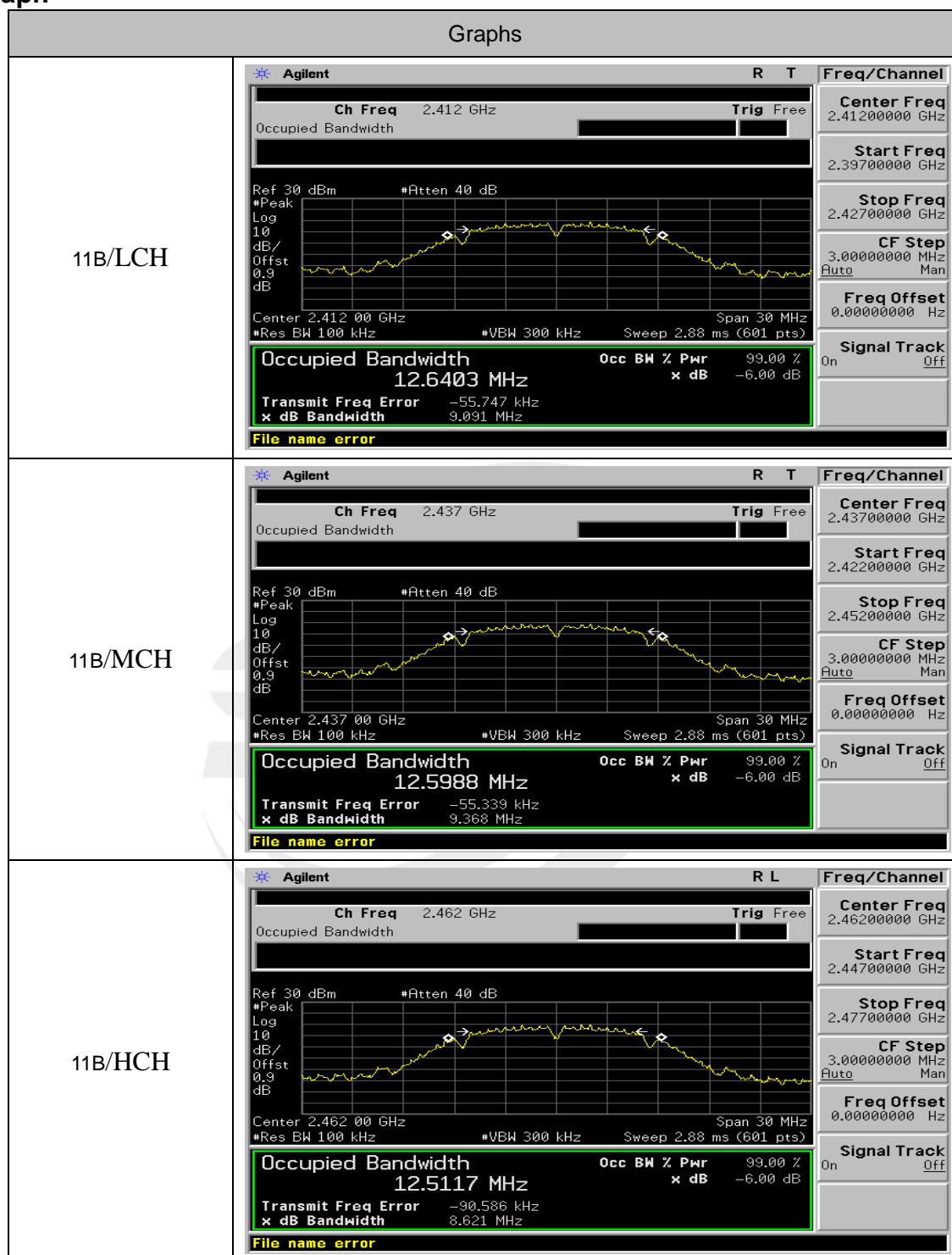
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

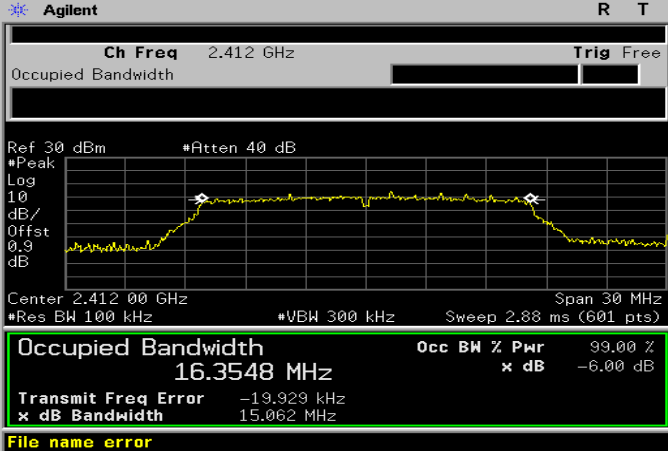
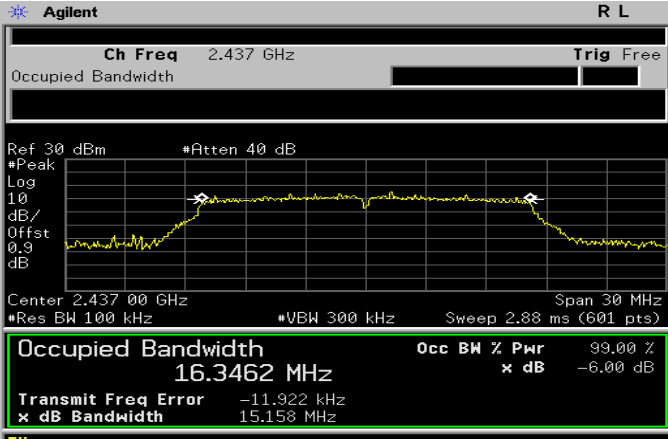
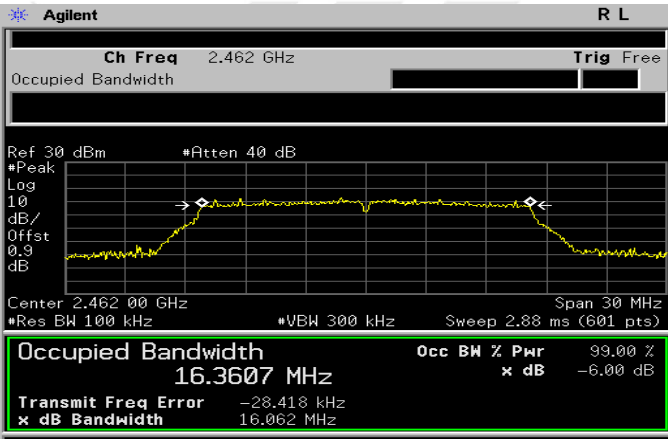


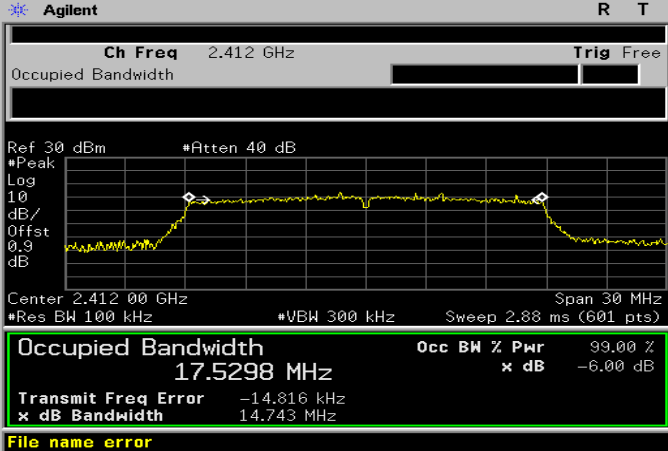
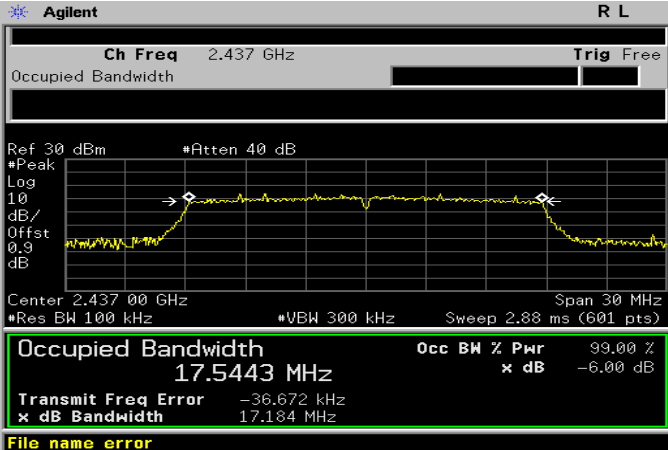
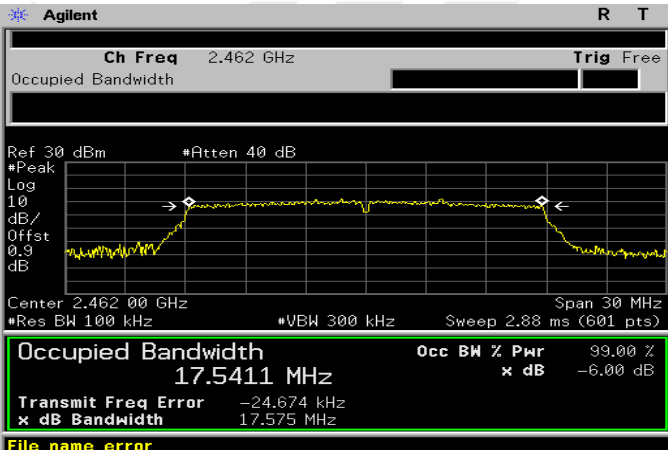
8.3. LIMITS AND MEASUREMENT RESULTS

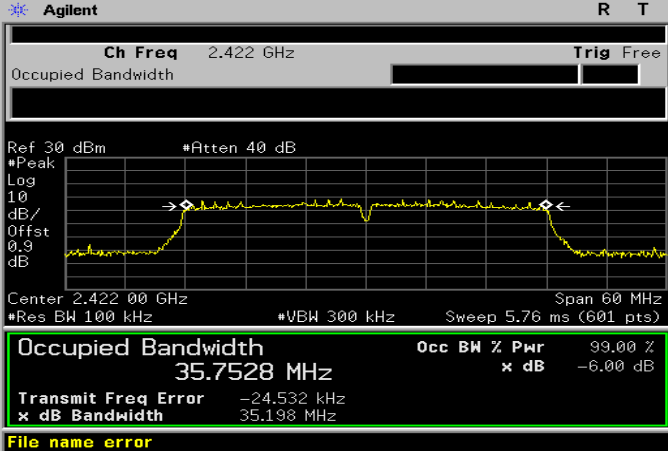
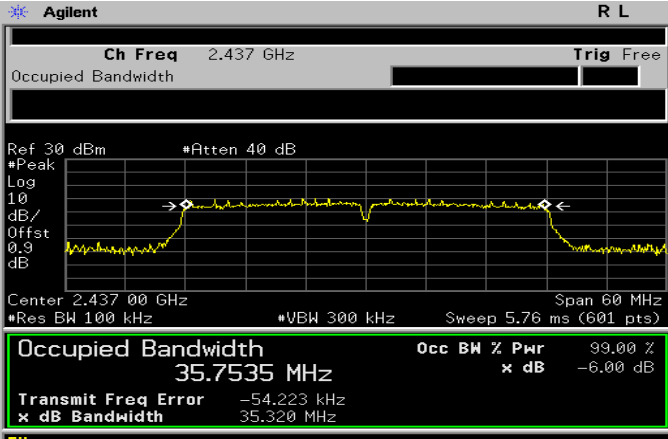
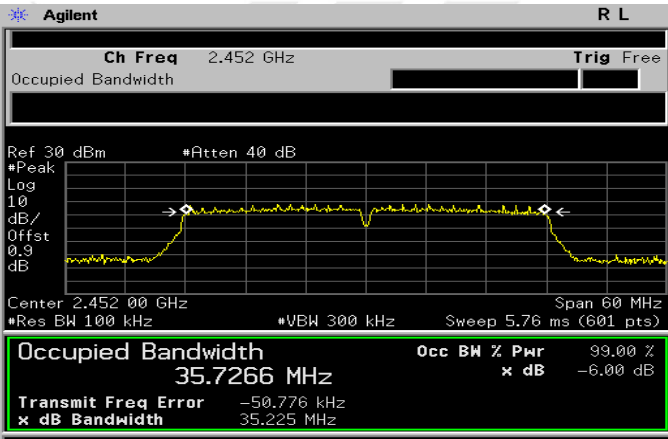
Mode	Channel	6dB Bandwidth [MHz]	OBW [MHz]	Verdict
11B	LCH	9.09	12.64	PASS
11B	MCH	9.37	12.60	PASS
11B	HCH	8.62	12.51	PASS
11G	LCH	15.06	16.35	PASS
11G	MCH	15.16	16.35	PASS
11G	HCH	16.06	16.36	PASS
11N20SISO	LCH	14.74	17.53	PASS
11N20SISO	MCH	17.18	17.54	PASS
11N20SISO	HCH	17.58	17.54	PASS
11N40SISO	LCH	35.20	35.75	PASS
11N40SISO	MCH	35.32	35.75	PASS
11N40SISO	HCH	35.22	35.73	PASS

Test Graph



11G/LCH	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.412 00 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.88 ms (601 pts)</p> <p>Occupied Bandwidth 16.3548 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -19.929 kHz</p> <p>x dB Bandwidth 15.062 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.41200000 GHz</p> <p>Start Freq 2.39700000 GHz</p> <p>Stop Freq 2.42700000 GHz</p> <p>CF Step 3.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
11G/MCH	 <p>Agilent R L</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.437 00 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.88 ms (601 pts)</p> <p>Occupied Bandwidth 16.3462 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -11.922 kHz</p> <p>x dB Bandwidth 15.158 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.43700000 GHz</p> <p>Start Freq 2.42200000 GHz</p> <p>Stop Freq 2.45200000 GHz</p> <p>CF Step 3.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
11G/HCH	 <p>Agilent R L</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.462 00 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.88 ms (601 pts)</p> <p>Occupied Bandwidth 16.3607 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -28.418 kHz</p> <p>x dB Bandwidth 16.062 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.46200000 GHz</p> <p>Start Freq 2.44700000 GHz</p> <p>Stop Freq 2.47700000 GHz</p> <p>CF Step 3.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>

11N20SISO/LCH	 <p>Agilent R T</p> <p>Ch Freq 2.412 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.412 00 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.88 ms (601 pts)</p> <p>Occupied Bandwidth 17.5298 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -14.816 kHz</p> <p>x dB Bandwidth 14.743 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.41200000 GHz</p> <p>Start Freq 2.39700000 GHz</p> <p>Stop Freq 2.42700000 GHz</p> <p>CF Step 3.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
11N20SISO/MCH	 <p>Agilent R L</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.437 00 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.88 ms (601 pts)</p> <p>Occupied Bandwidth 17.5443 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -36.672 kHz</p> <p>x dB Bandwidth 17.184 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.43700000 GHz</p> <p>Start Freq 2.42200000 GHz</p> <p>Stop Freq 2.45200000 GHz</p> <p>CF Step 3.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
11N20SISO/HCH	 <p>Agilent R T</p> <p>Ch Freq 2.462 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.462 00 GHz Span 30 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.88 ms (601 pts)</p> <p>Occupied Bandwidth 17.5411 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -24.674 kHz</p> <p>x dB Bandwidth 17.575 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.46200000 GHz</p> <p>Start Freq 2.44700000 GHz</p> <p>Stop Freq 2.47700000 GHz</p> <p>CF Step 3.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>

11N40SISO/LCH	 <p>Agilent R T</p> <p>Ch Freq 2.422 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.422 00 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 5.76 ms (601 pts)</p> <p>Occupied Bandwidth 35.7528 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -24.532 kHz</p> <p>x dB Bandwidth 35.198 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.42200000 GHz</p> <p>Start Freq 2.39200000 GHz</p> <p>Stop Freq 2.45200000 GHz</p> <p>CF Step 6.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
11N40SISO/MCH	 <p>Agilent R L</p> <p>Ch Freq 2.437 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.437 00 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 5.76 ms (601 pts)</p> <p>Occupied Bandwidth 35.7535 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -54.223 kHz</p> <p>x dB Bandwidth 35.320 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.43700000 GHz</p> <p>Start Freq 2.40700000 GHz</p> <p>Stop Freq 2.46700000 GHz</p> <p>CF Step 6.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
11N40SISO/HCH	 <p>Agilent R L</p> <p>Ch Freq 2.452 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 30 dBm #Atten 40 dB</p> <p>Log 10 dB/Offst 0.9 dB</p> <p>Center 2.452 00 GHz Span 60 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 5.76 ms (601 pts)</p> <p>Occupied Bandwidth 35.7266 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -50.776 kHz</p> <p>x dB Bandwidth 35.225 MHz</p> <p>File name error</p> <p>Freq/Channel</p> <p>Center Freq 2.45200000 GHz</p> <p>Start Freq 2.42200000 GHz</p> <p>Stop Freq 2.48200000 GHz</p> <p>CF Step 6.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>

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 SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 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.

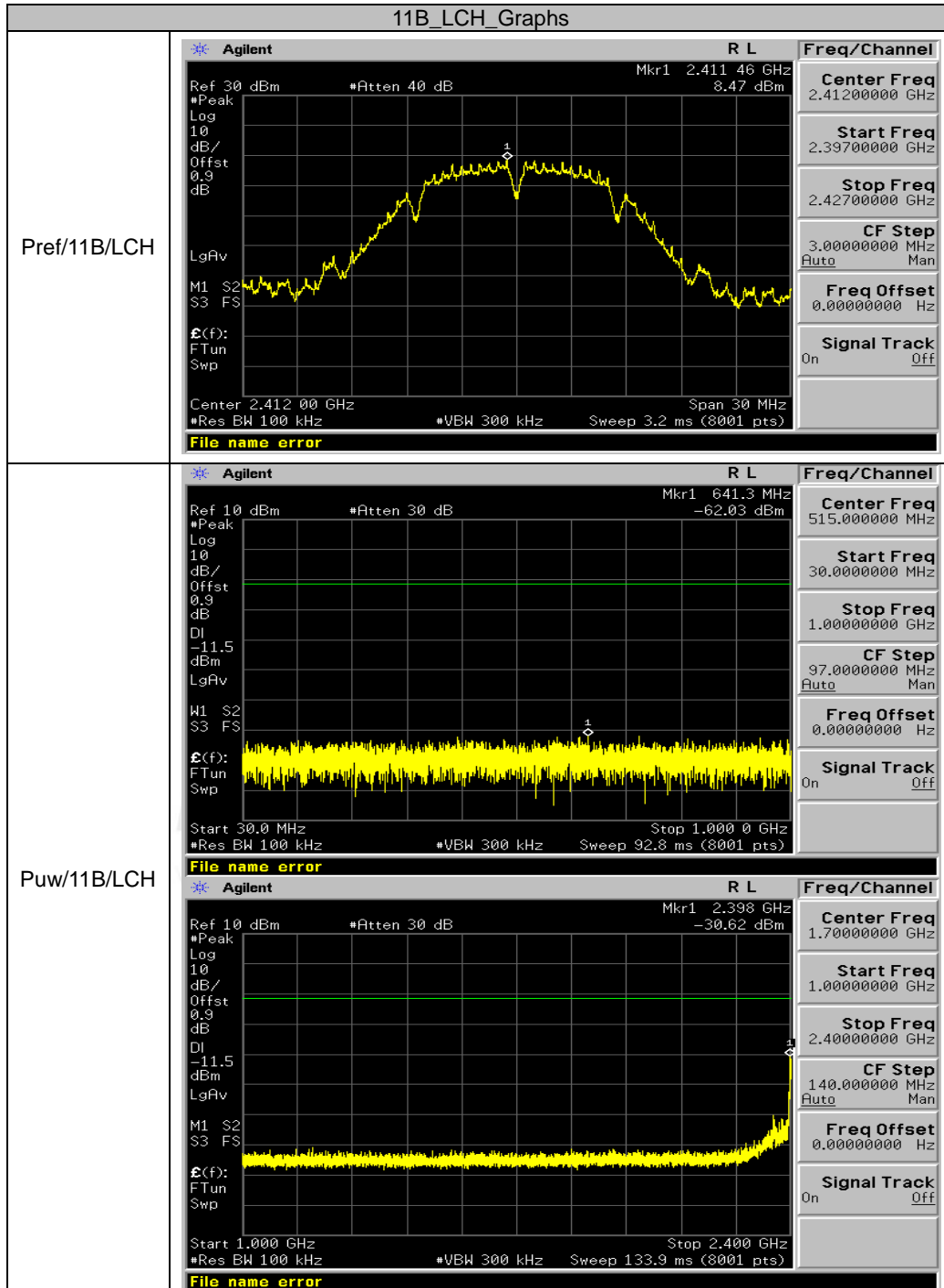
9.3. MEASUREMENT EQUIPMENT USED

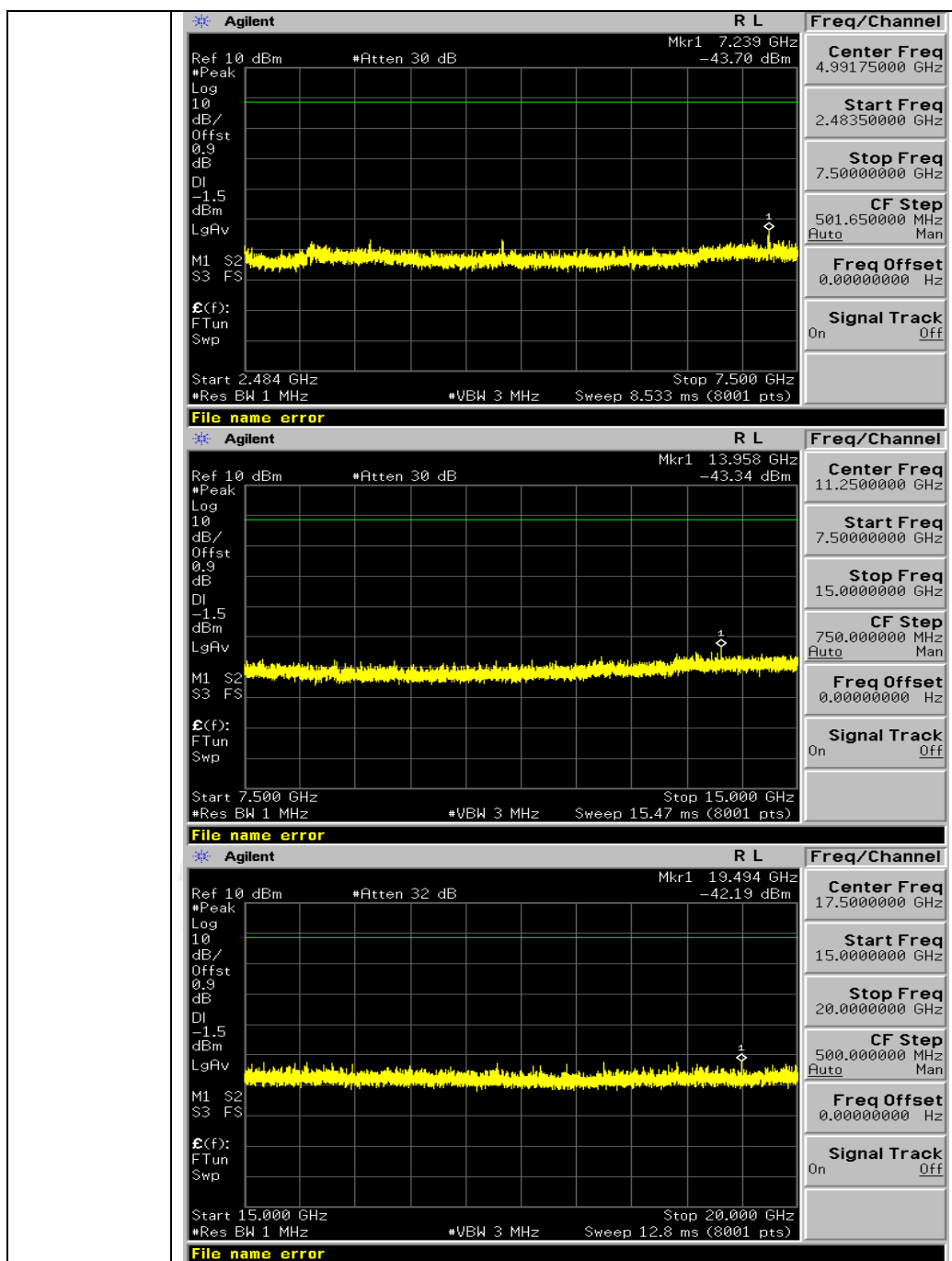
The same as described in section 6.

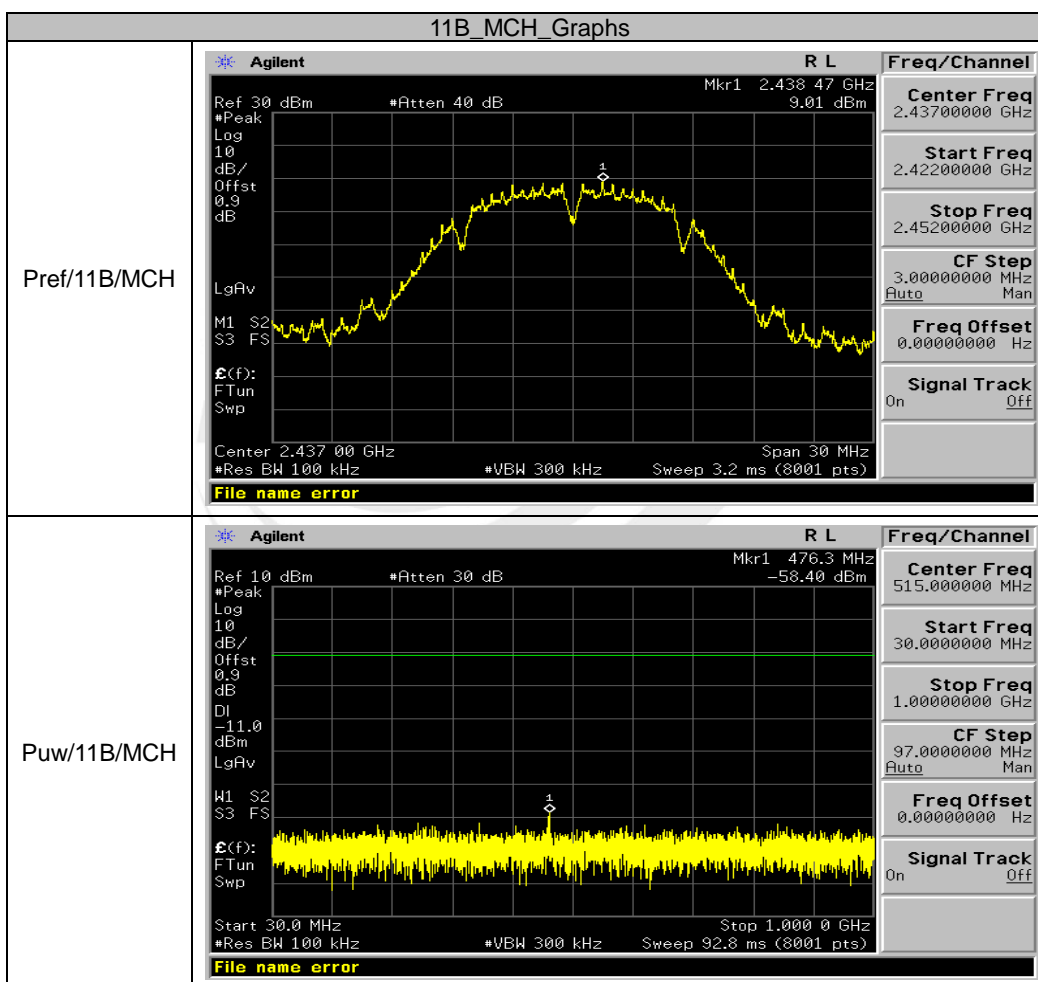
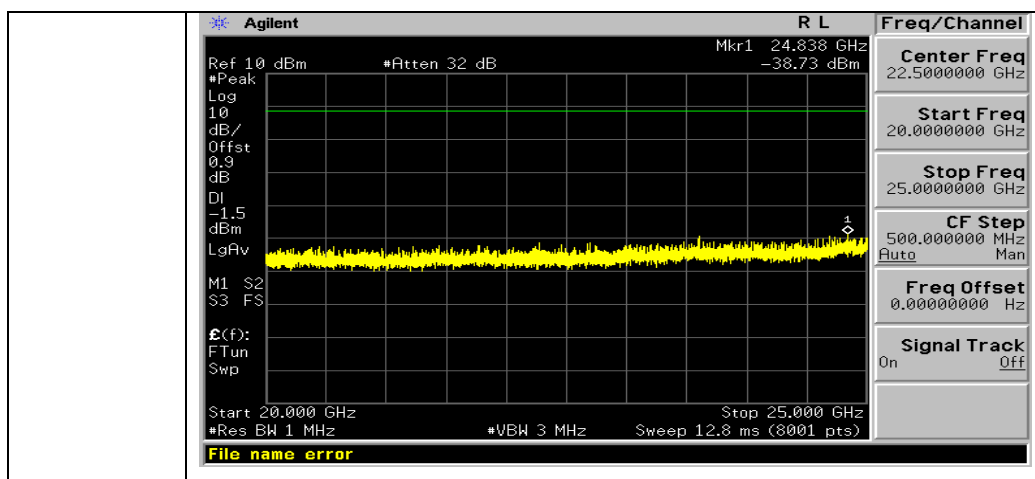
9.4. LIMITS AND MEASUREMENT RESULT

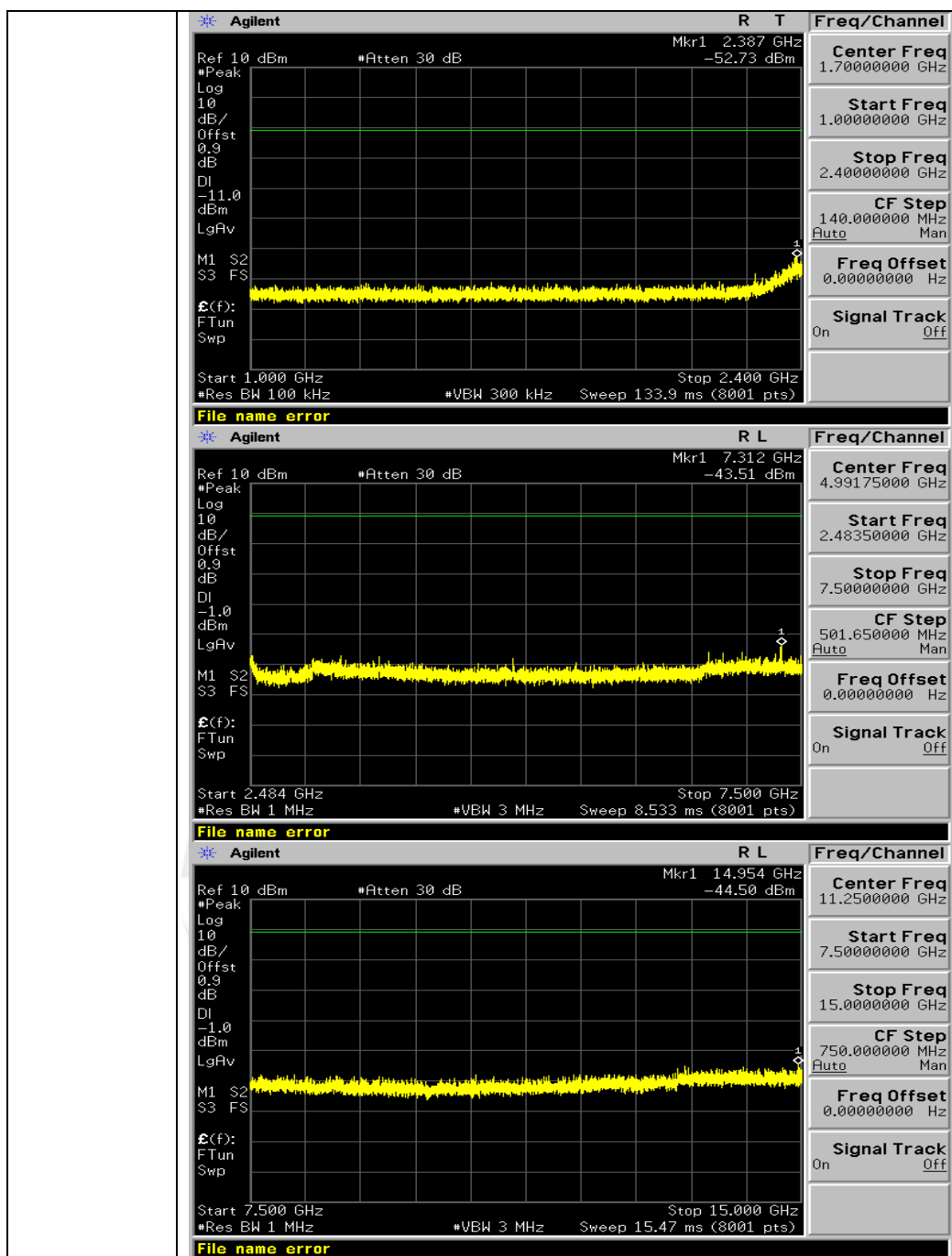
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below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

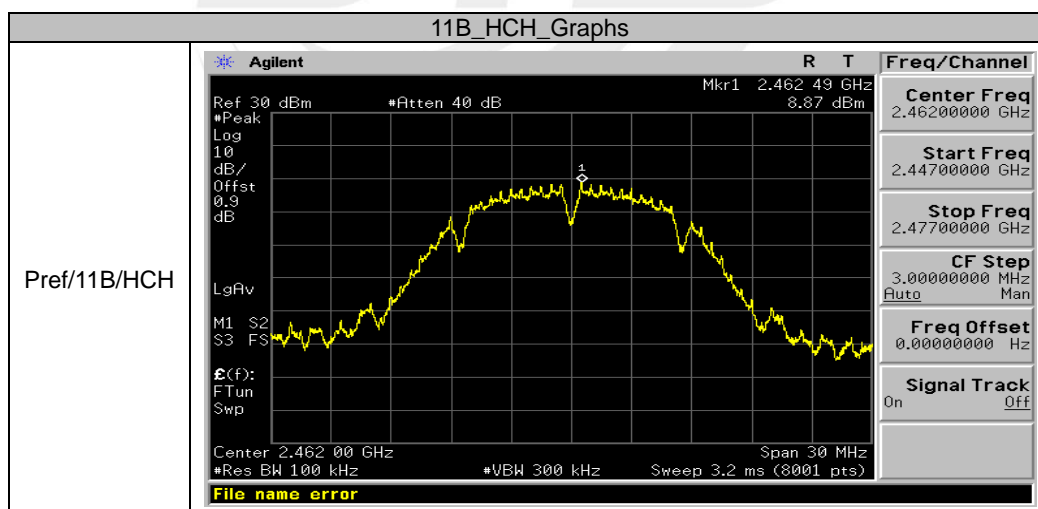
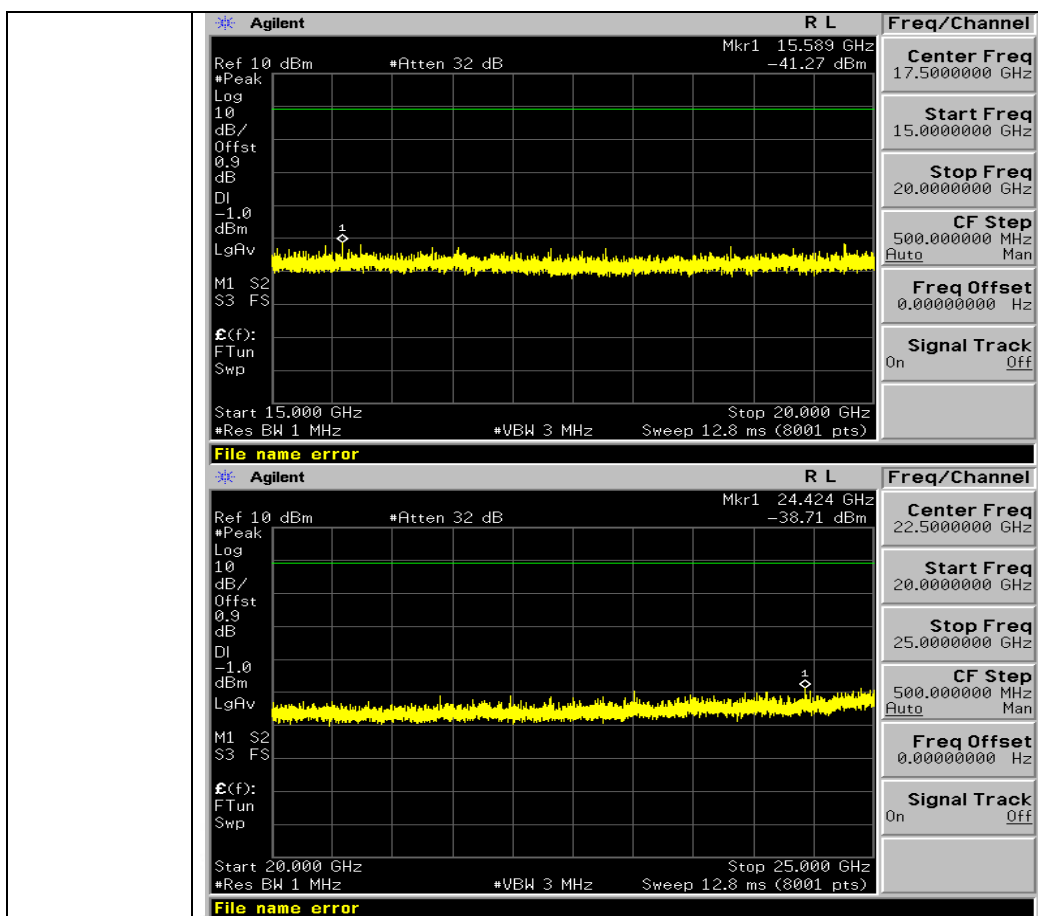
Test Graph



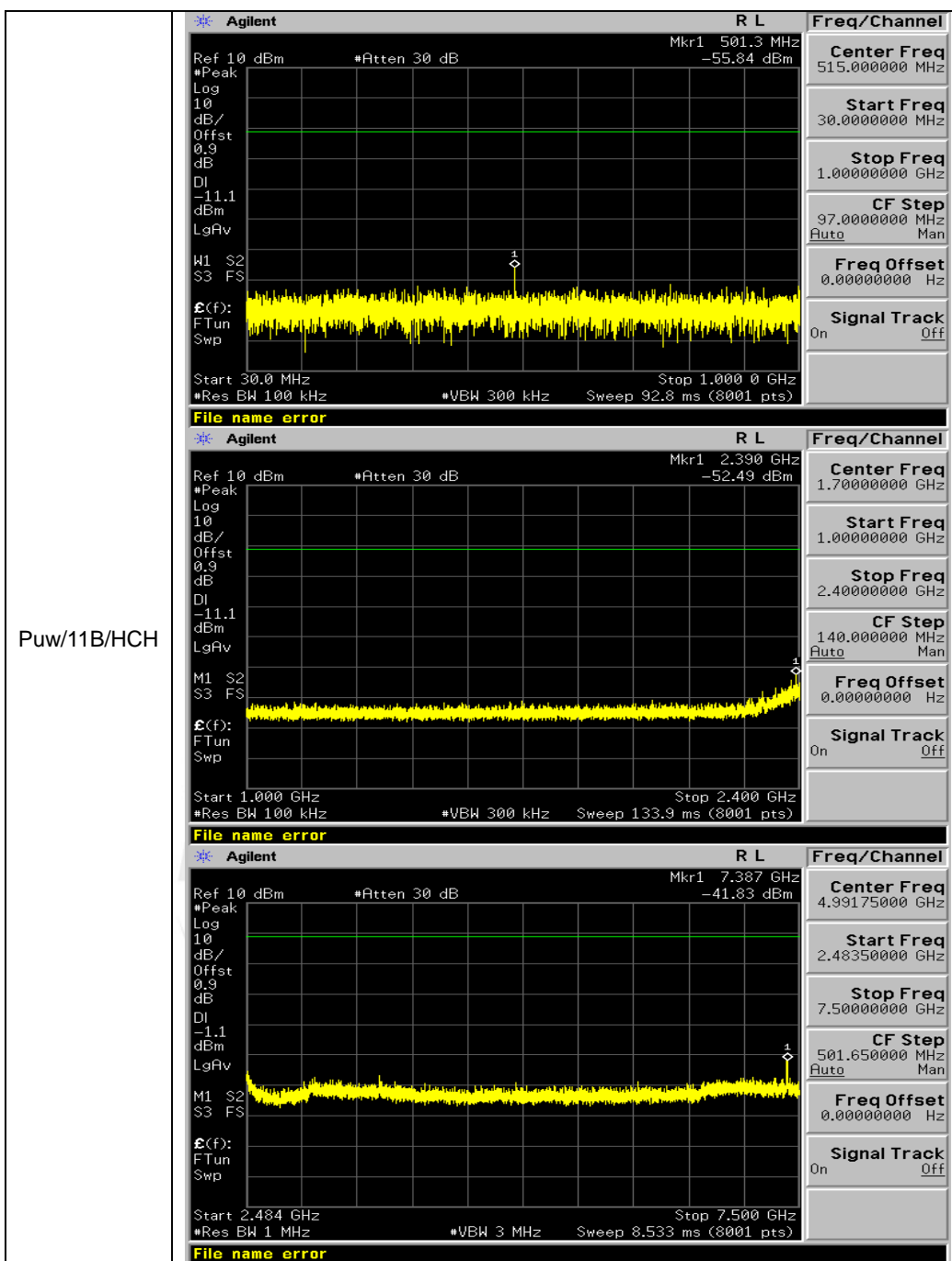


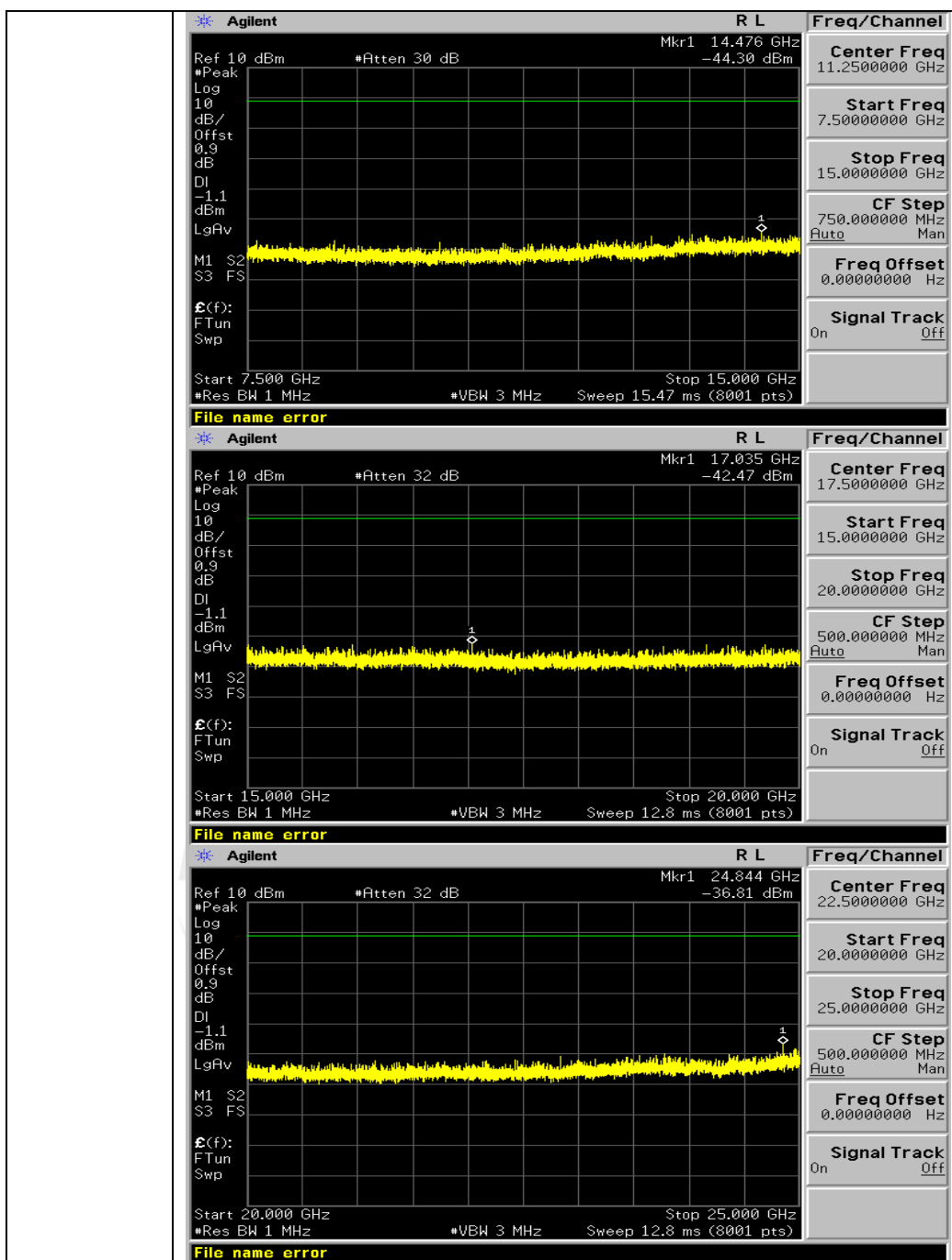


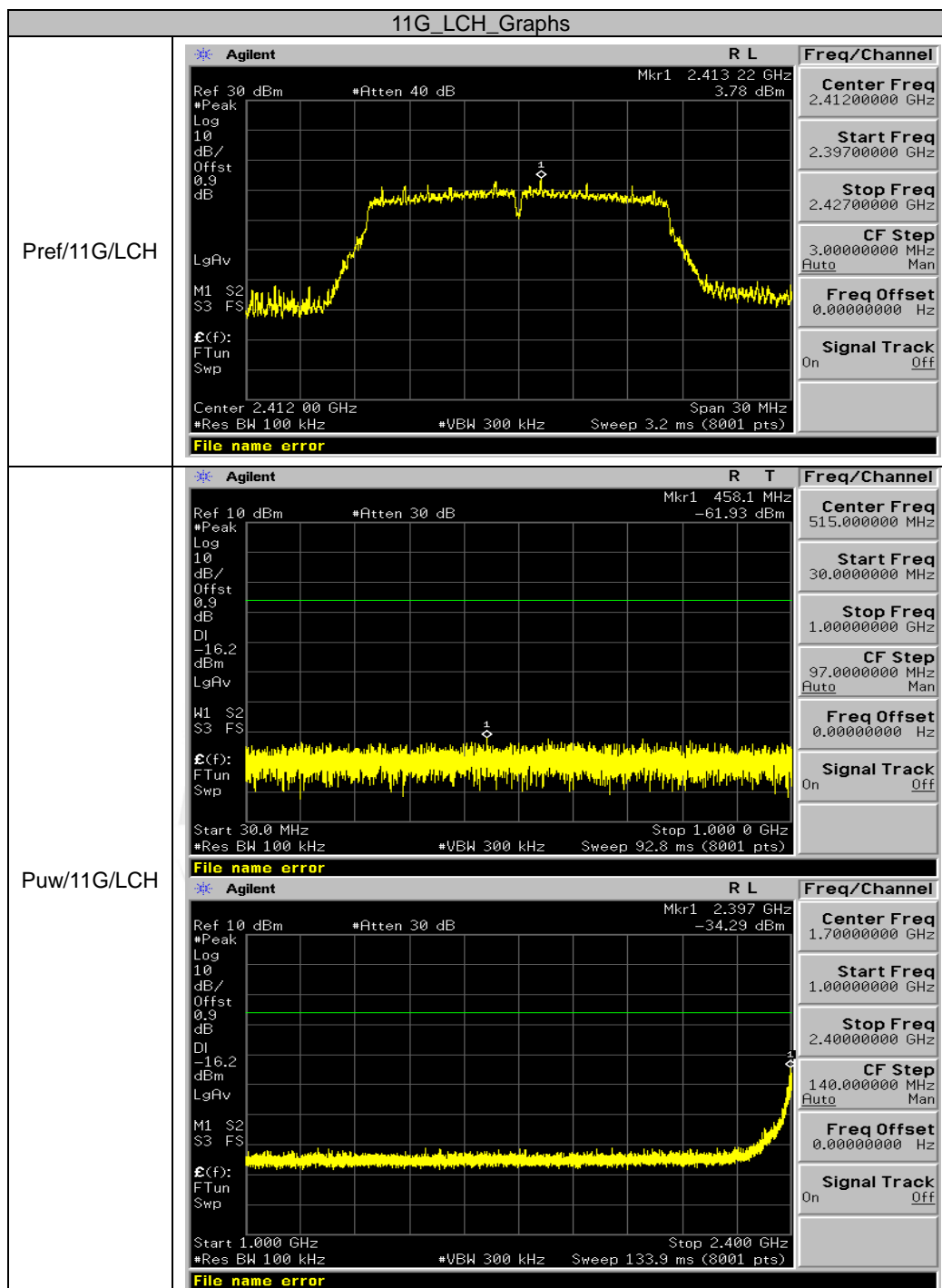


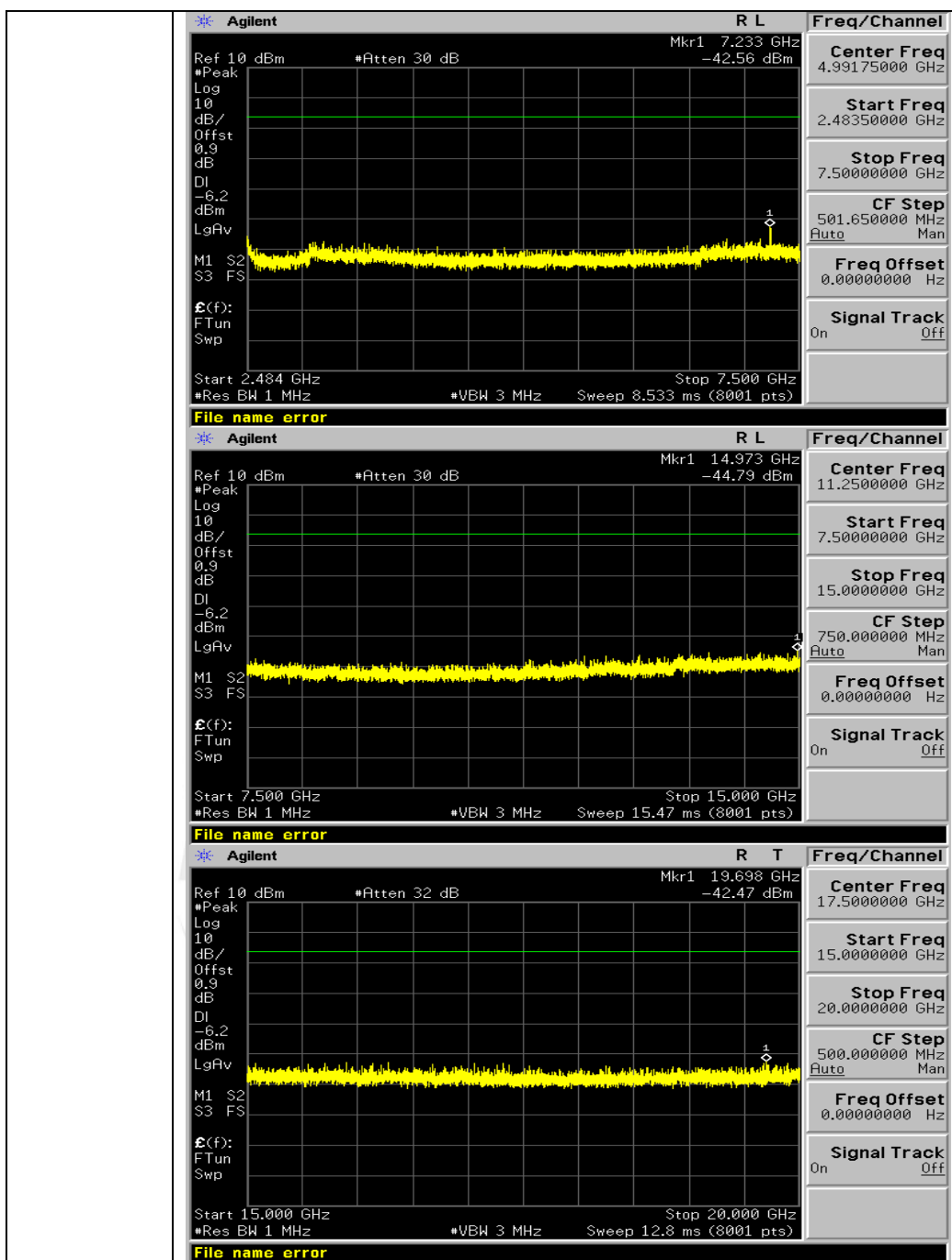


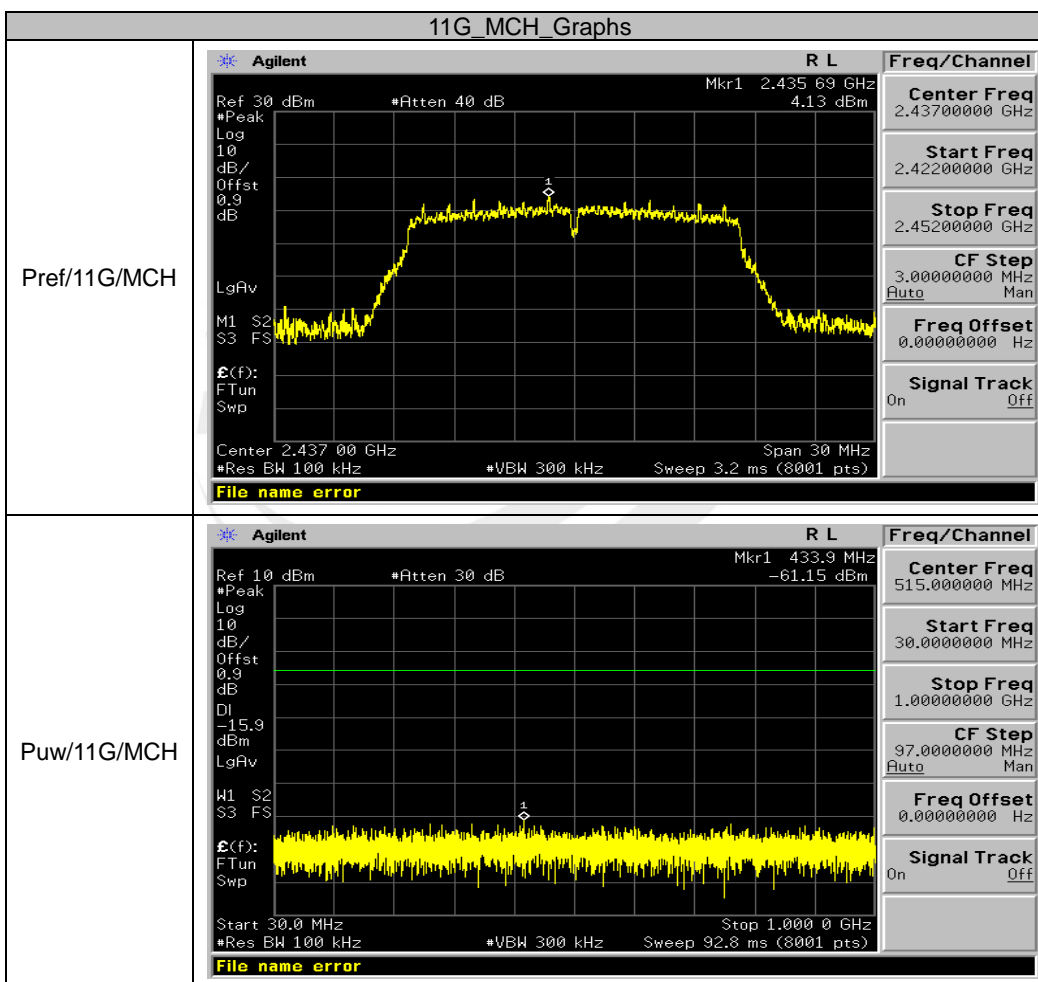
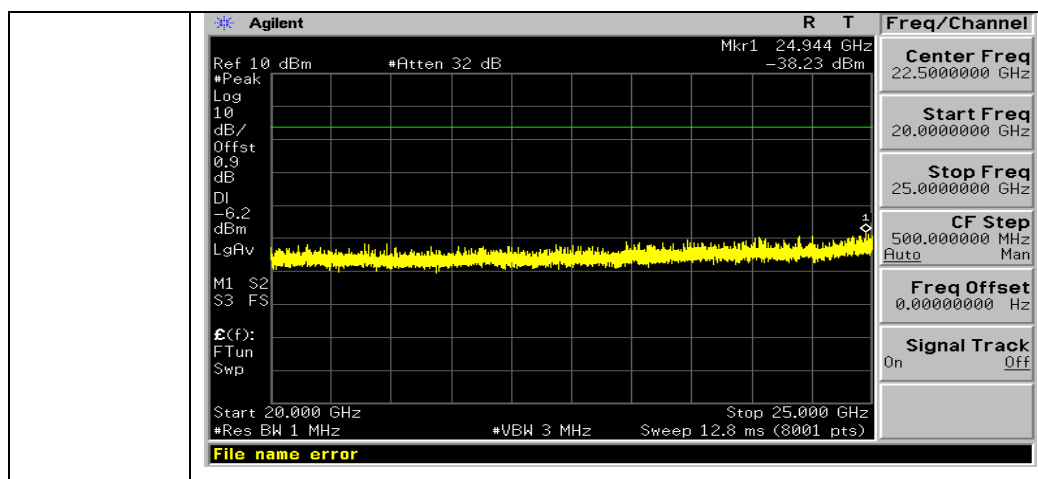
Pref/11B/HCH

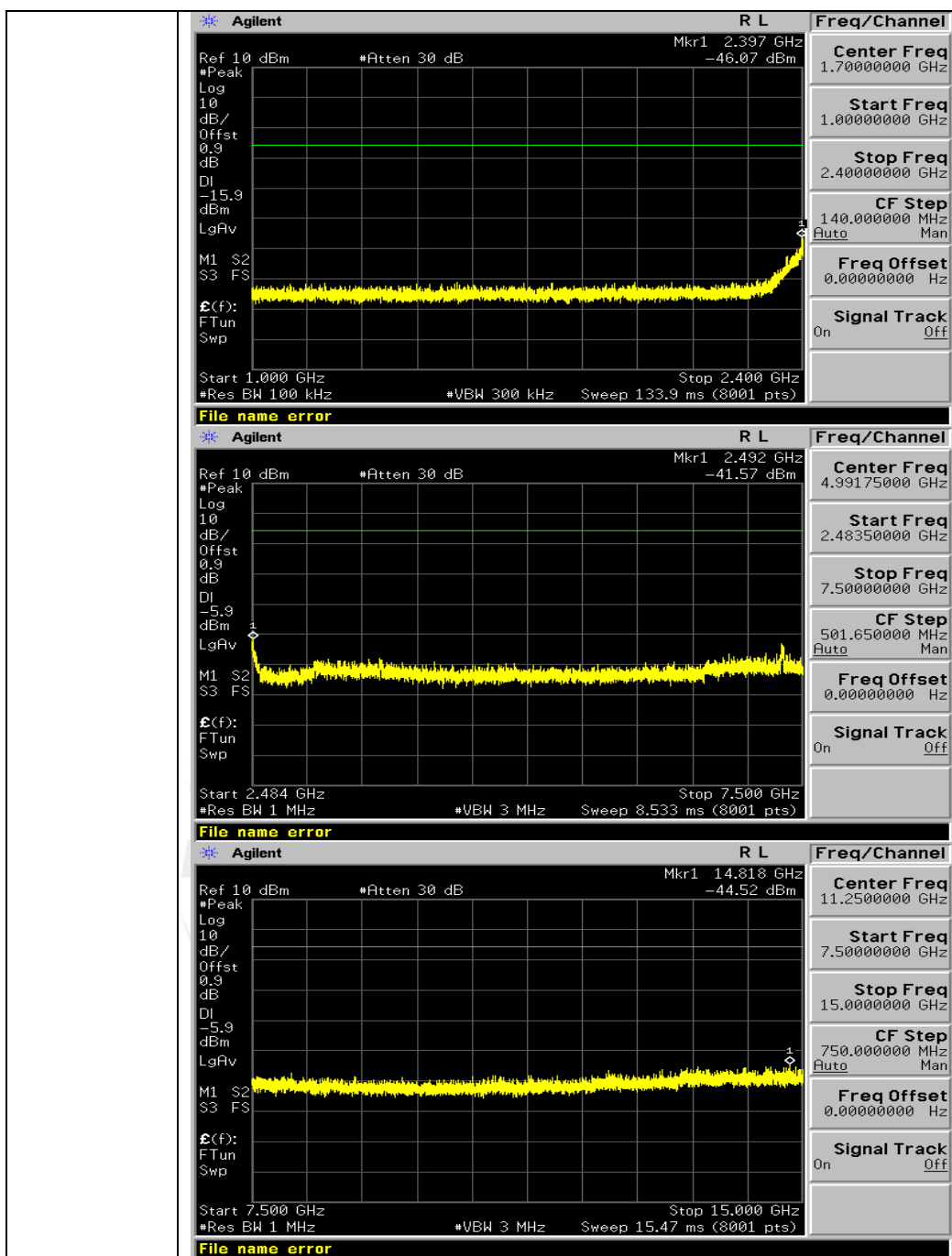


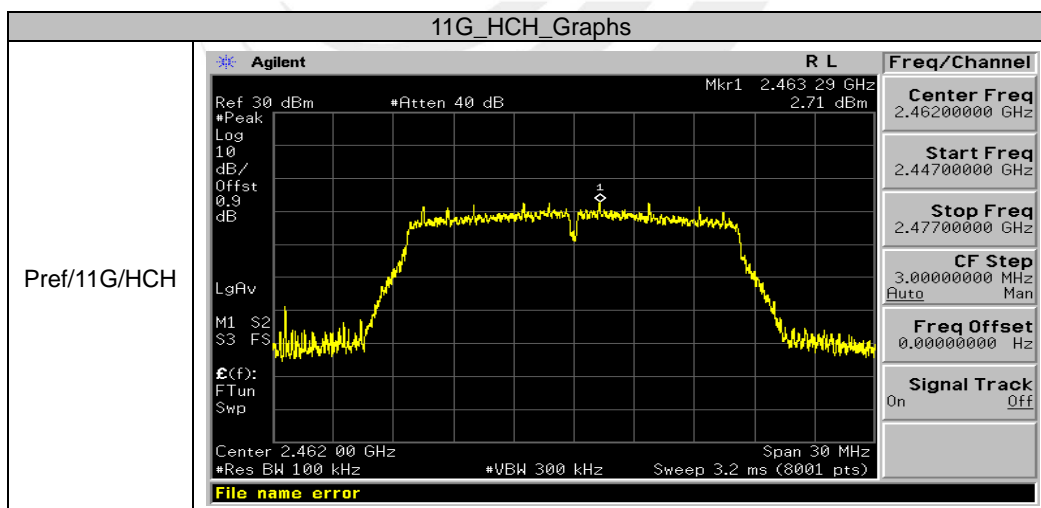
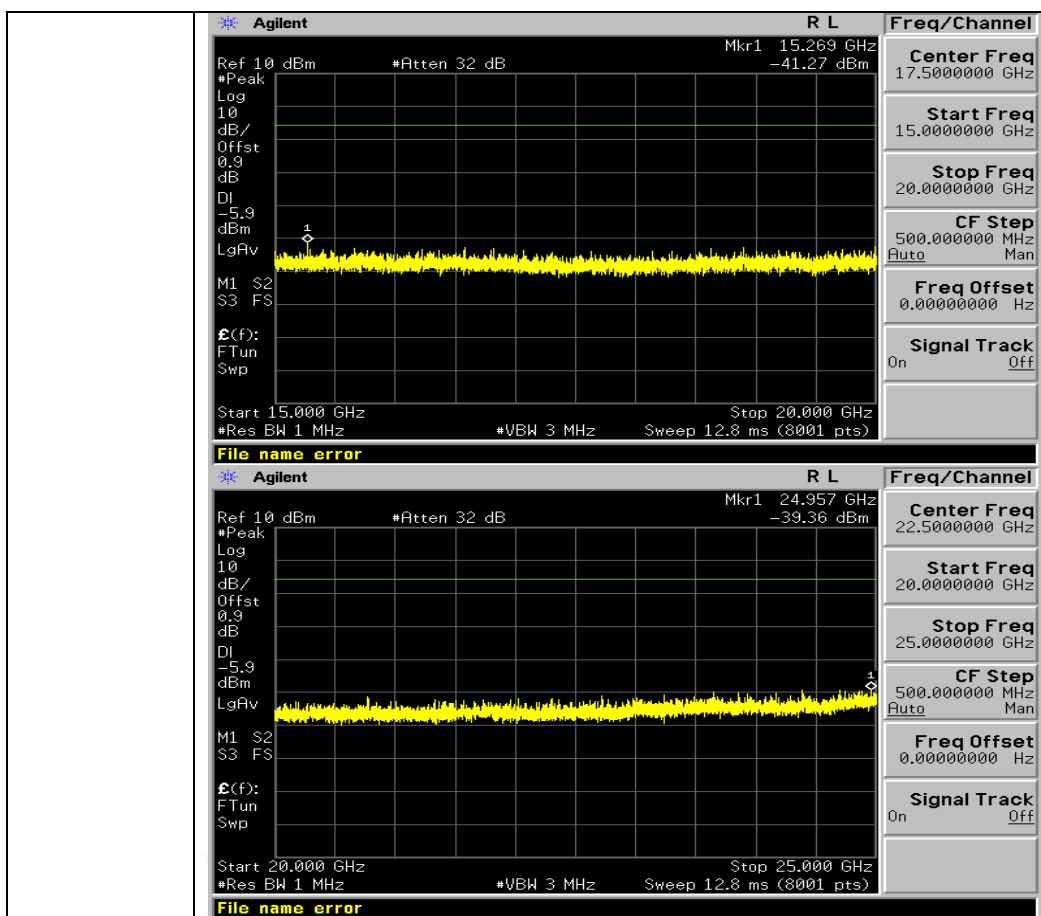


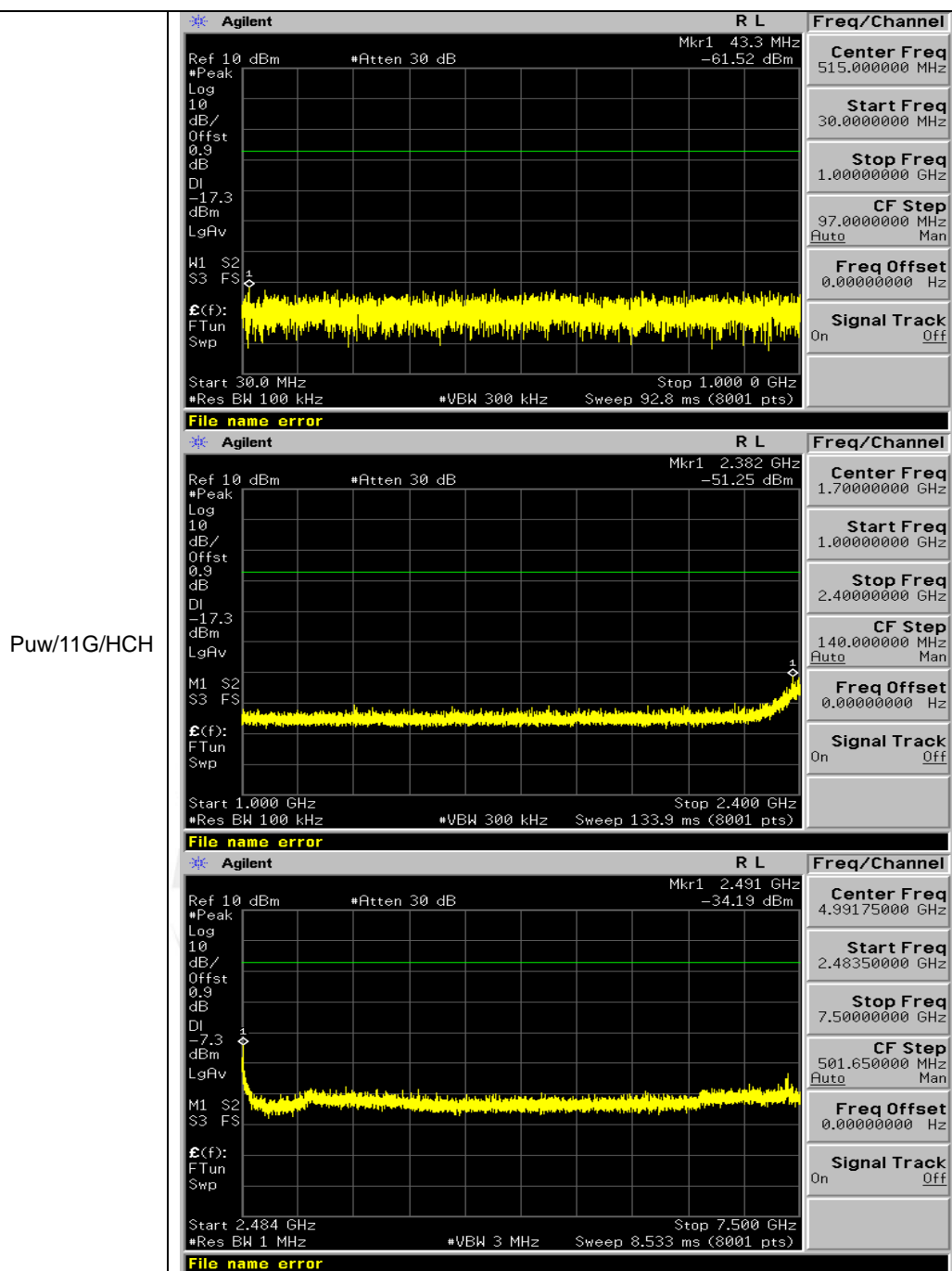


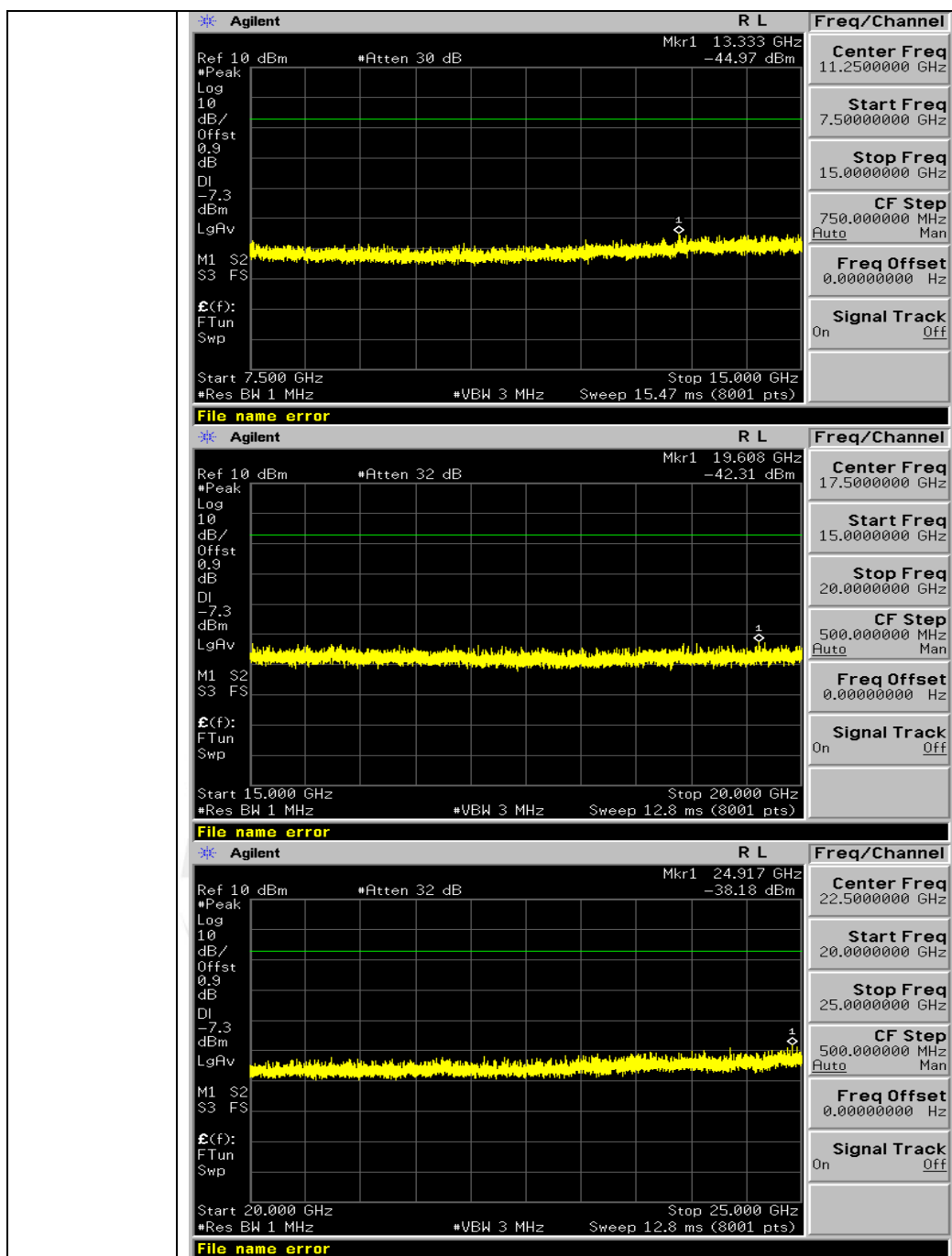


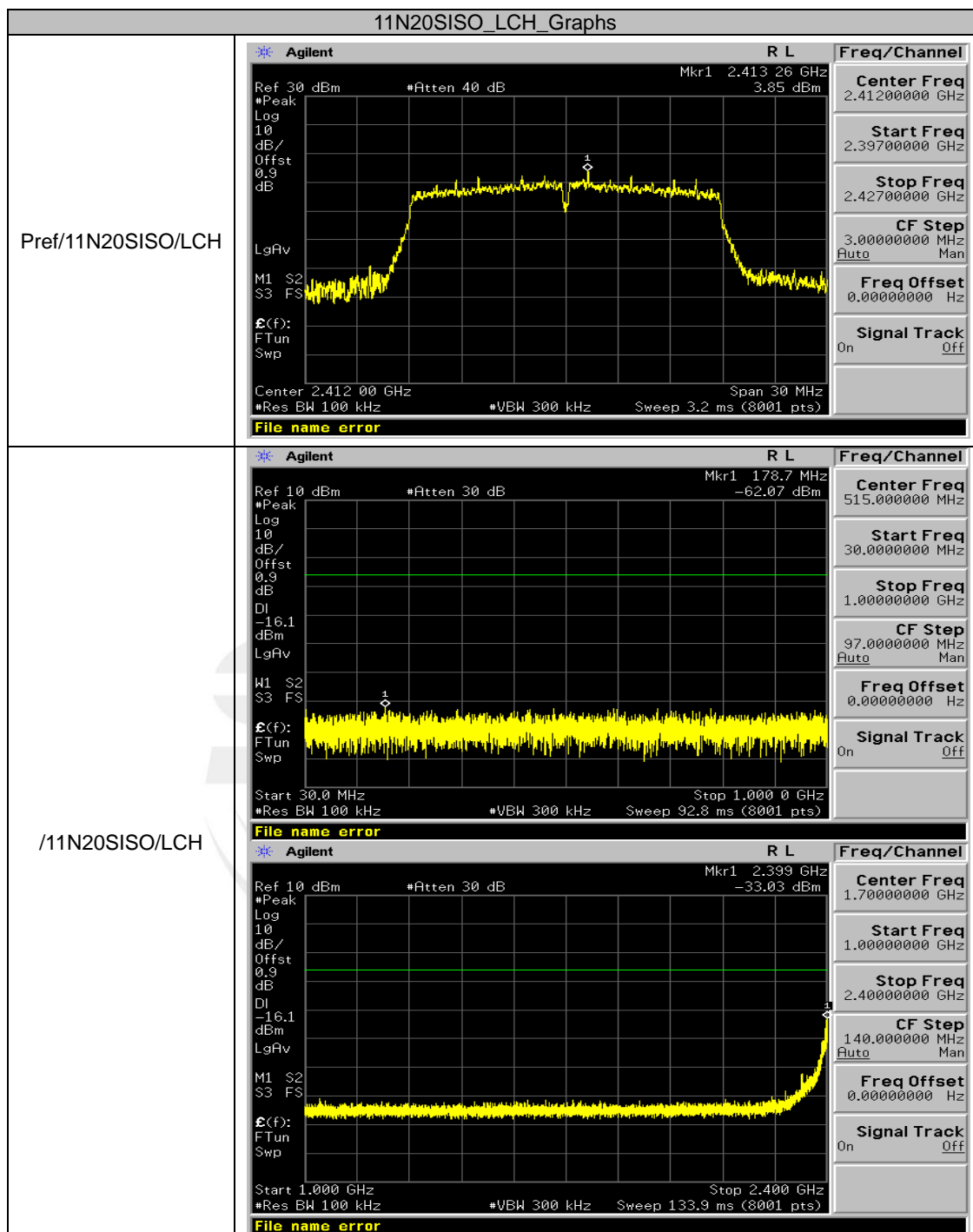


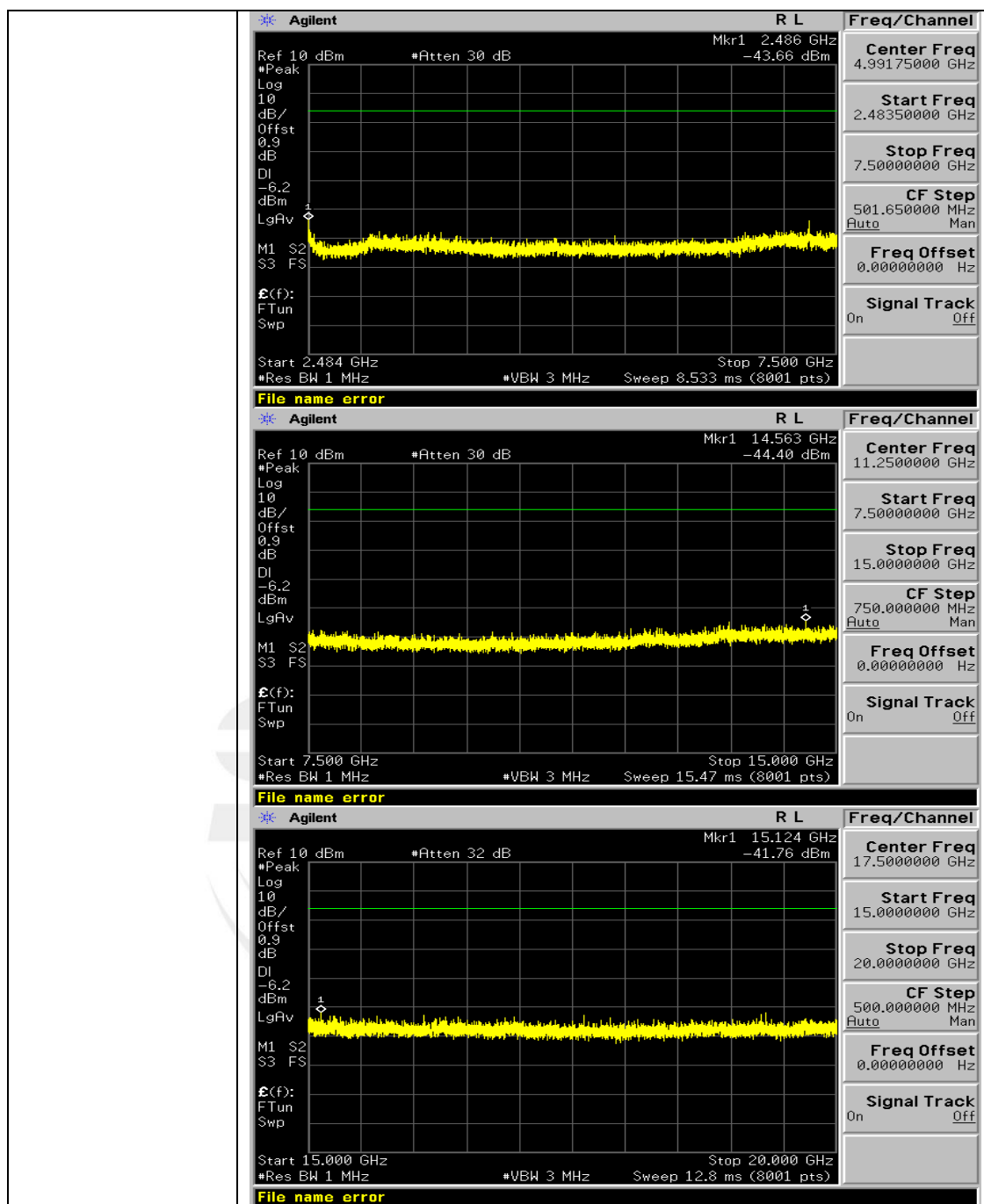


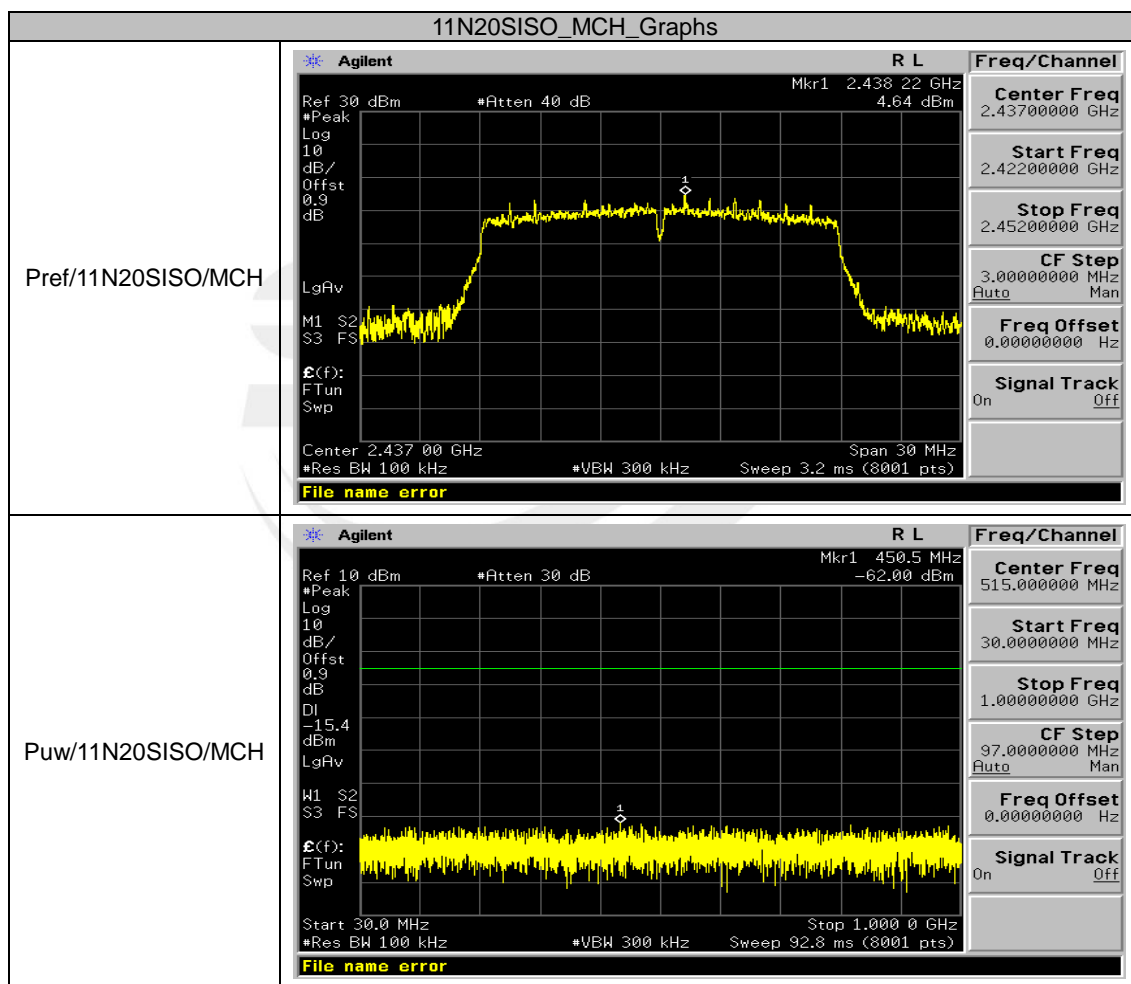
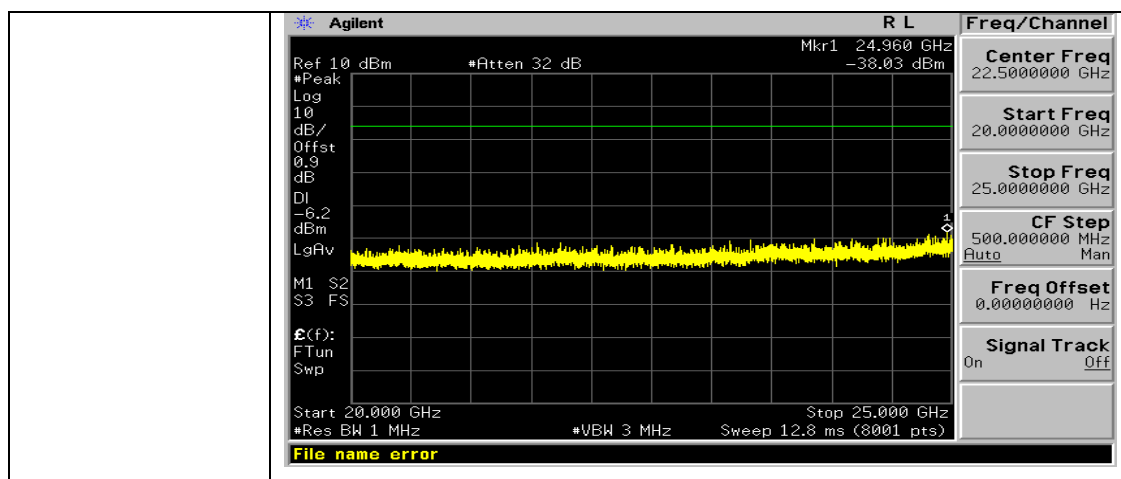


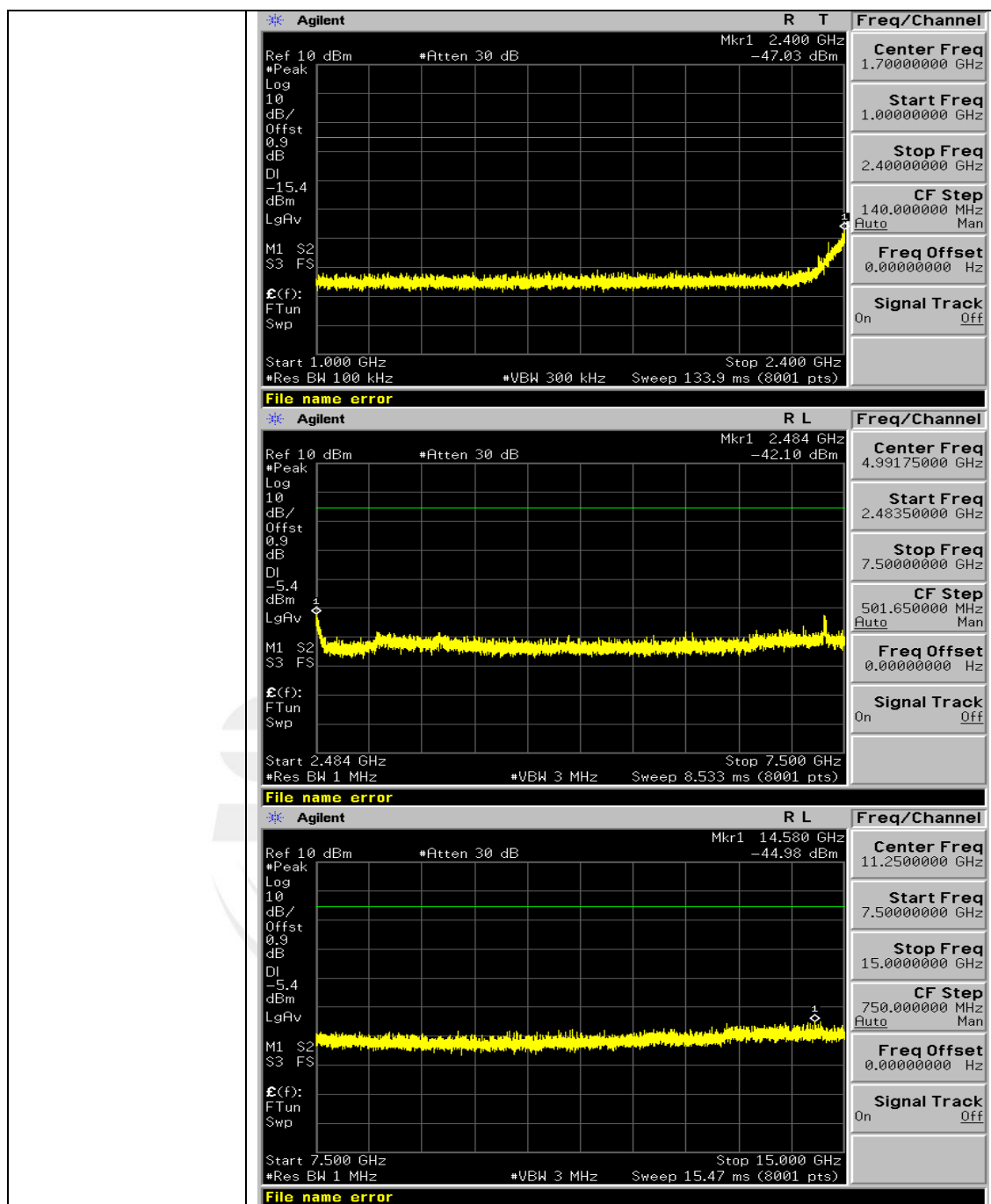


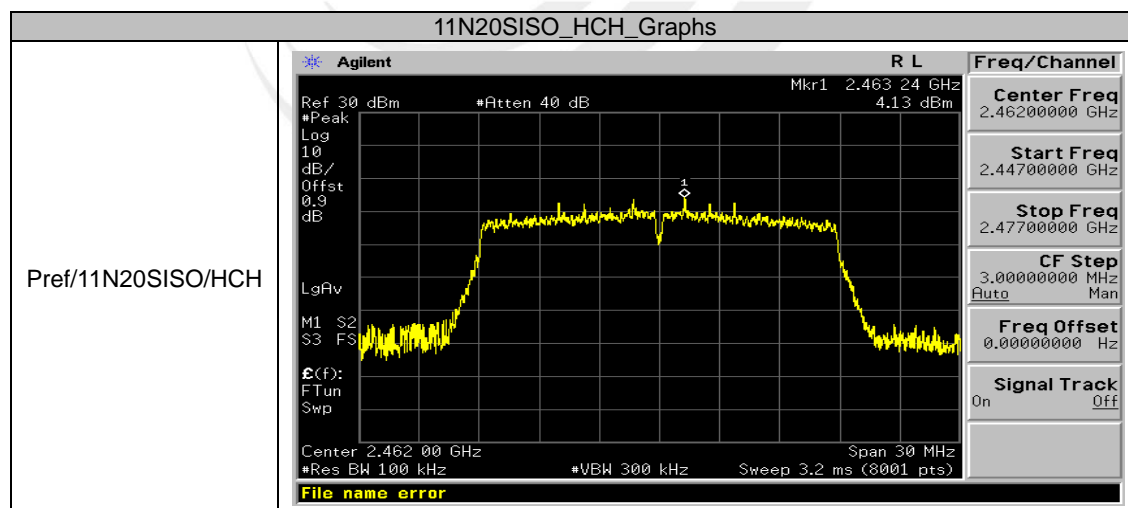
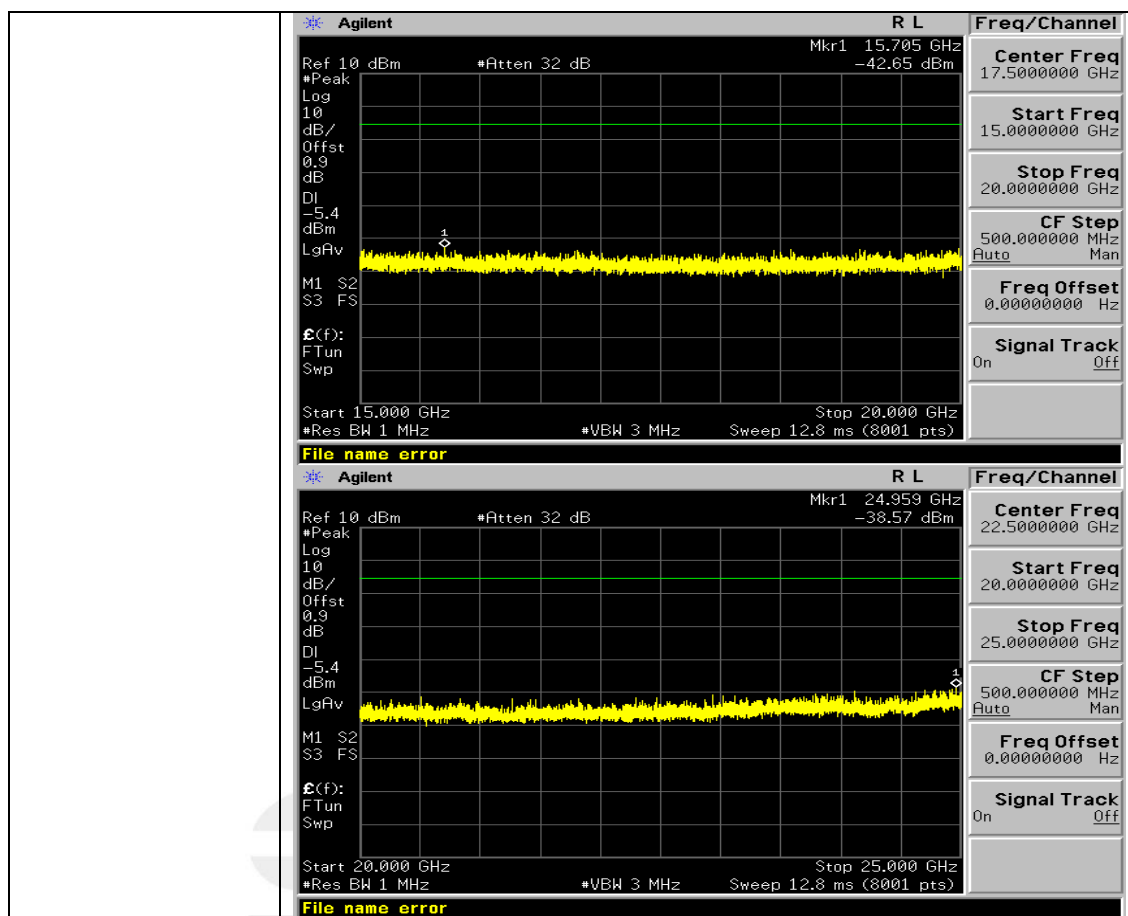




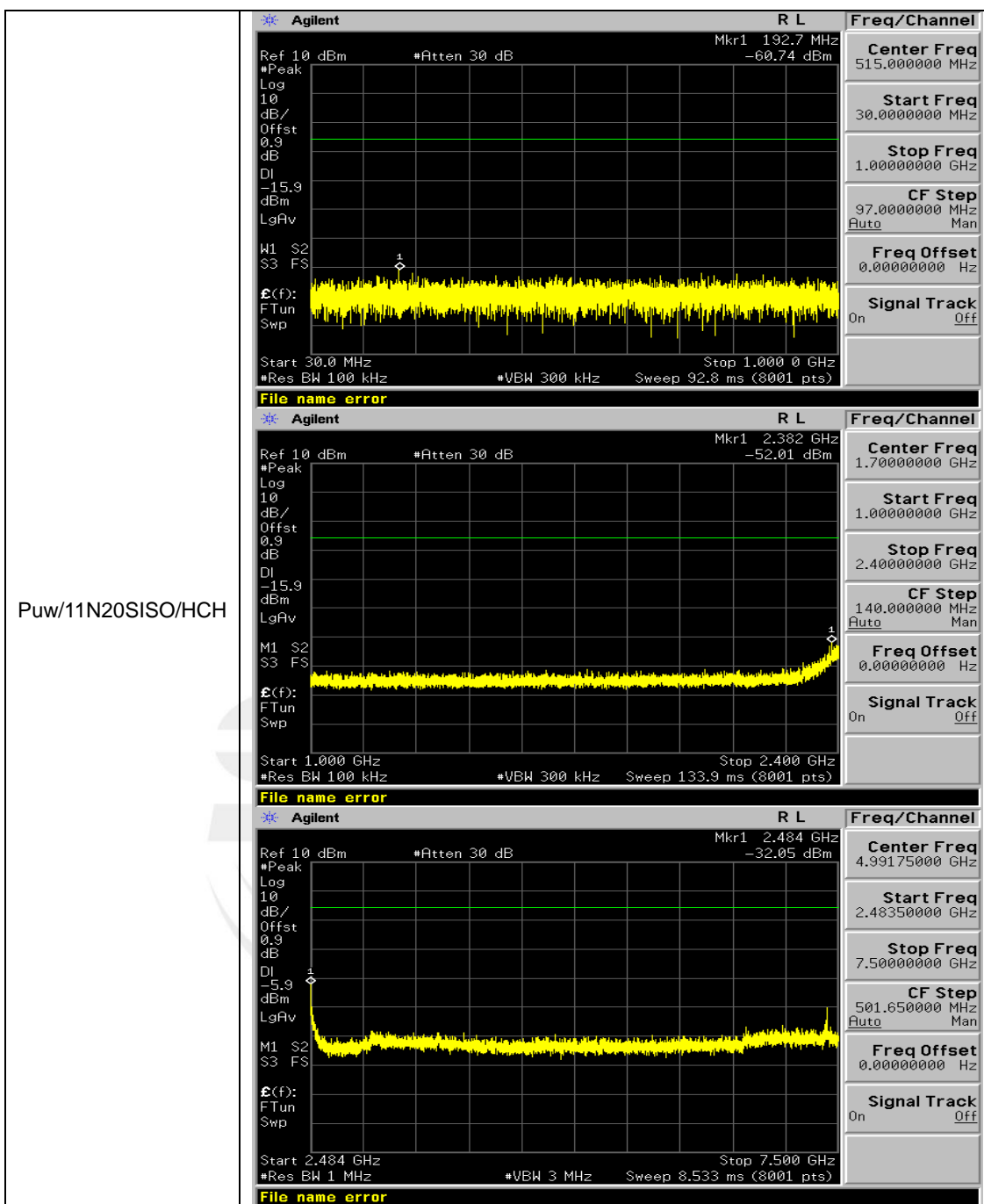


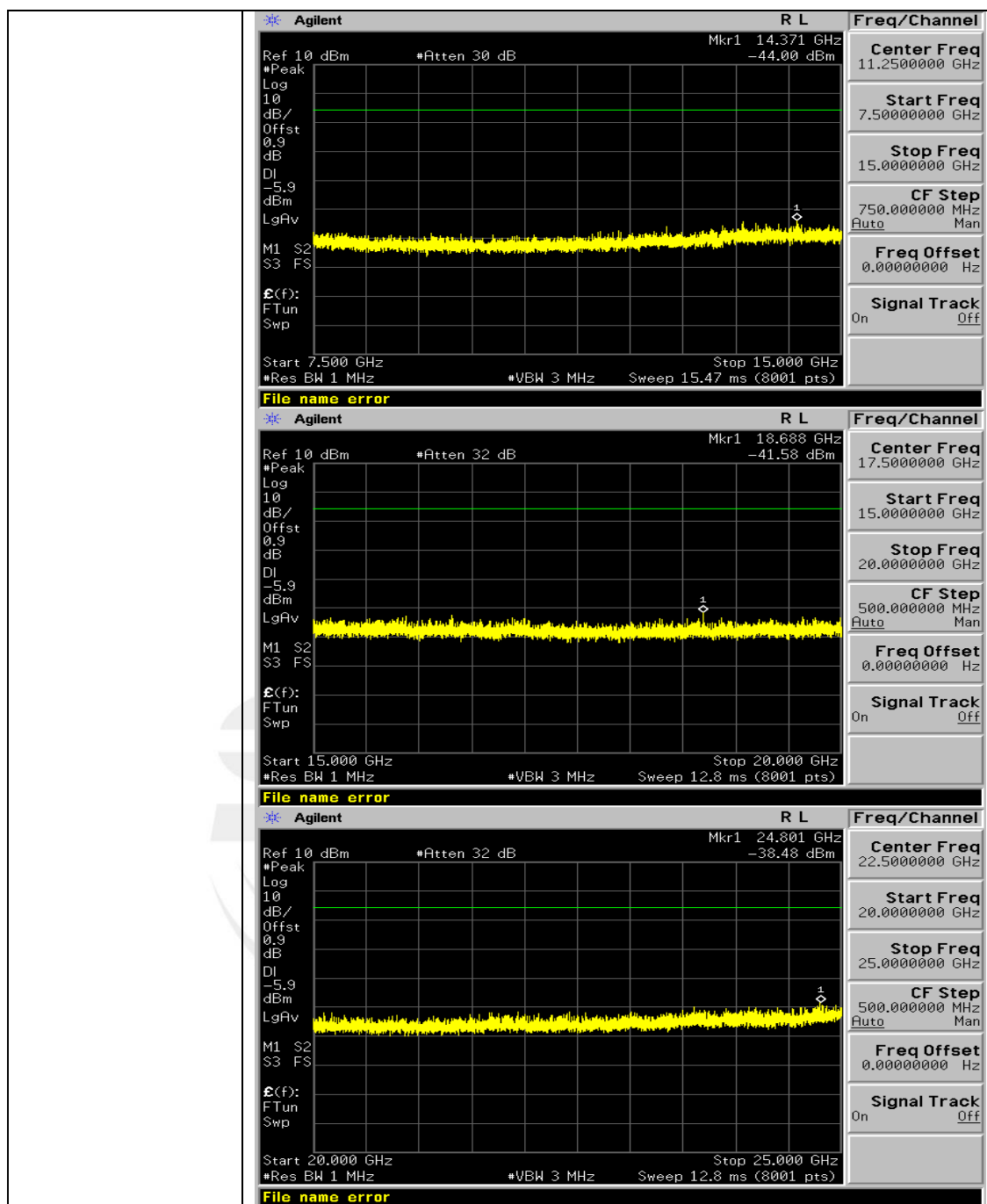


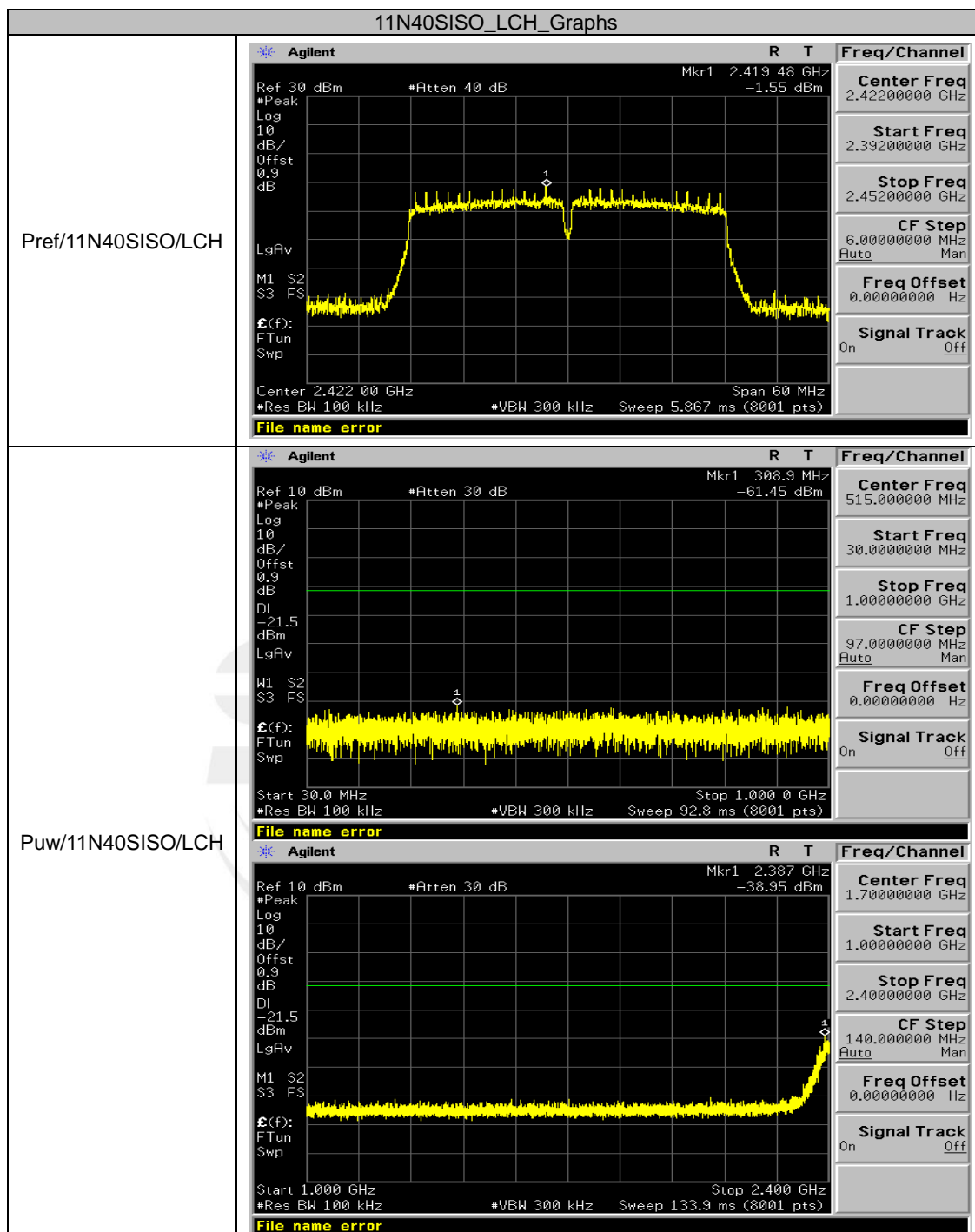


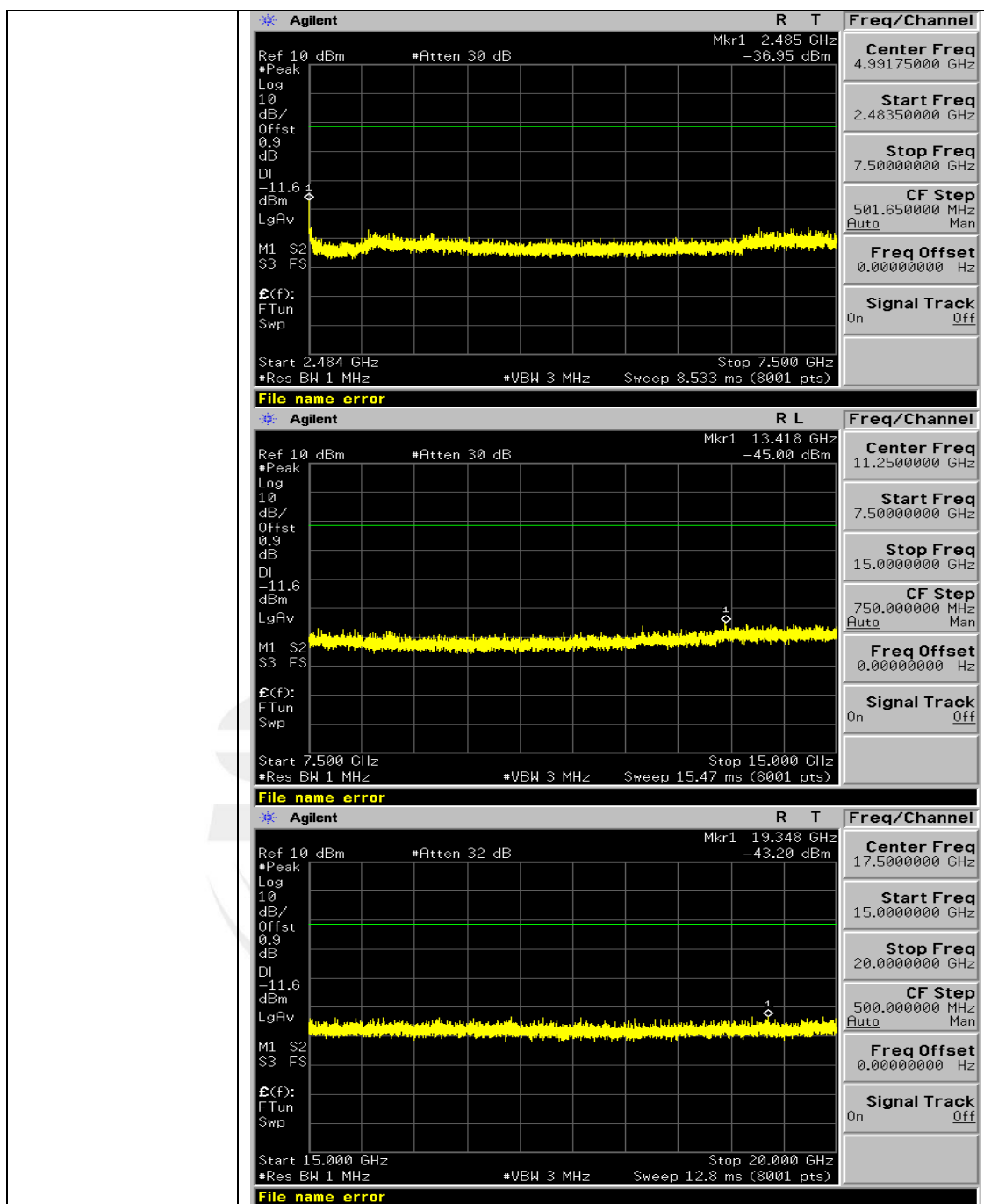


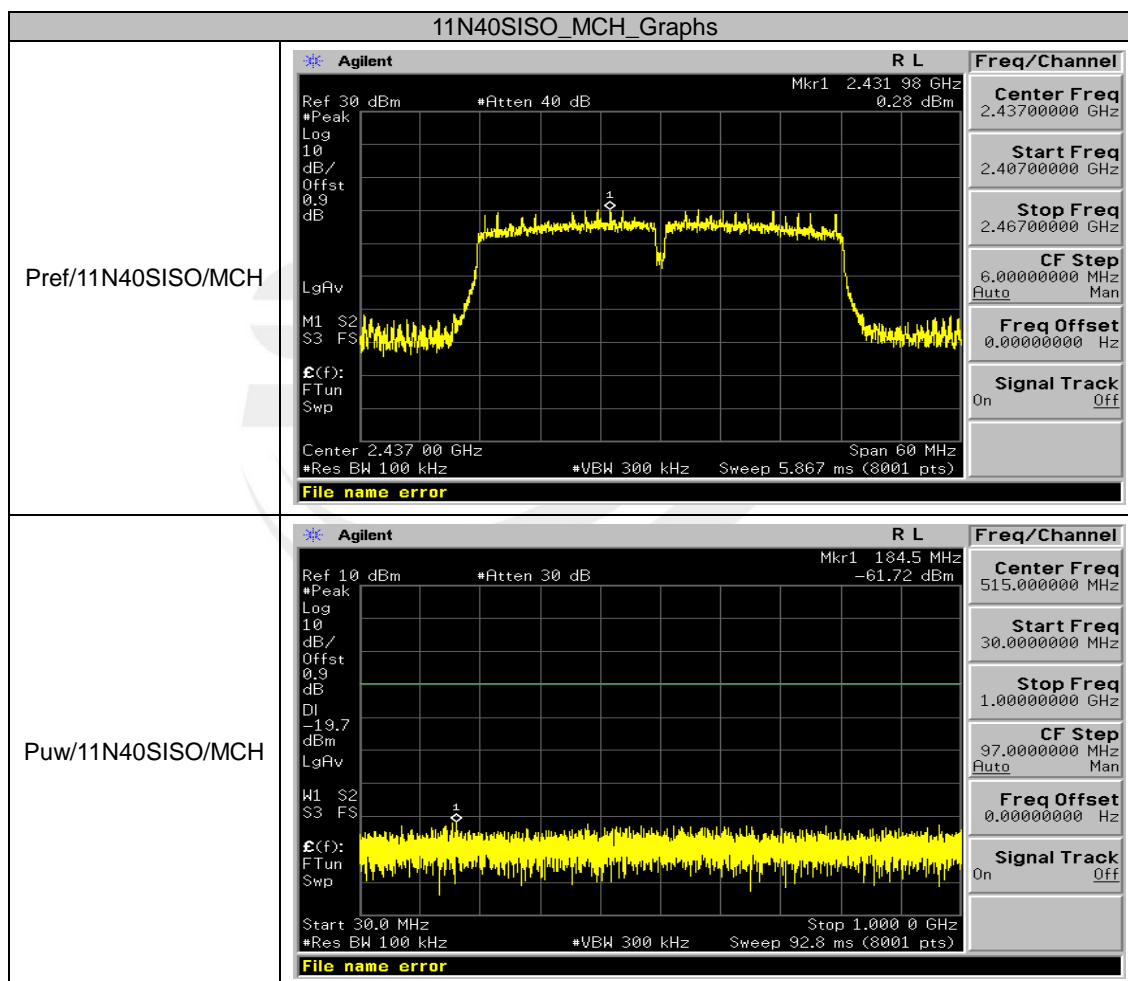
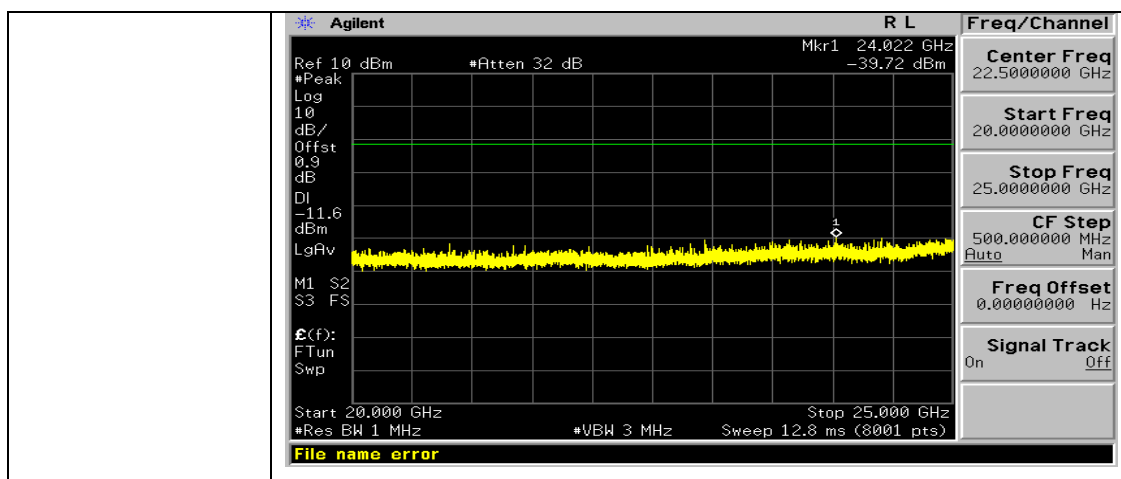
Pref/11N20SISO/HCH

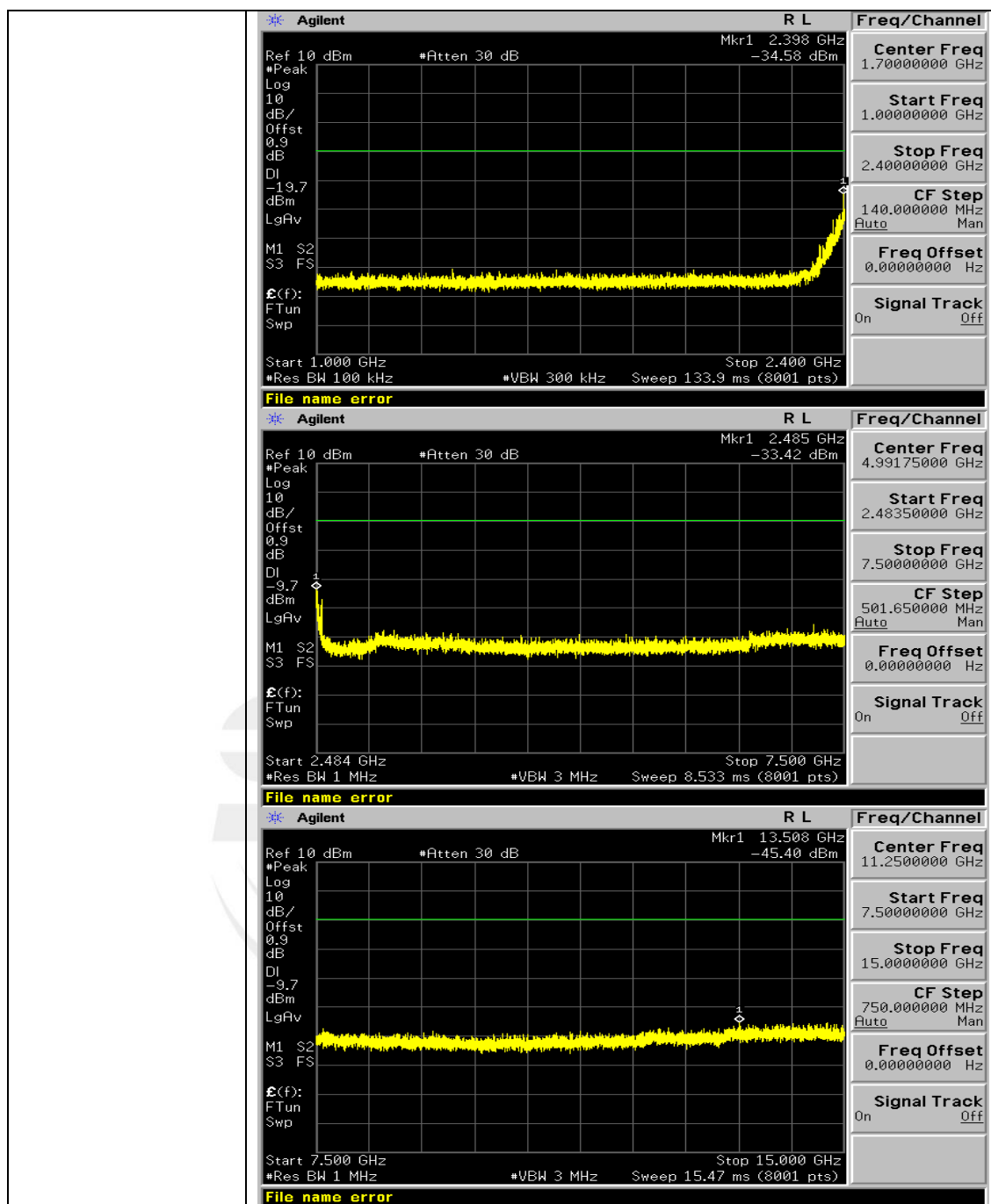


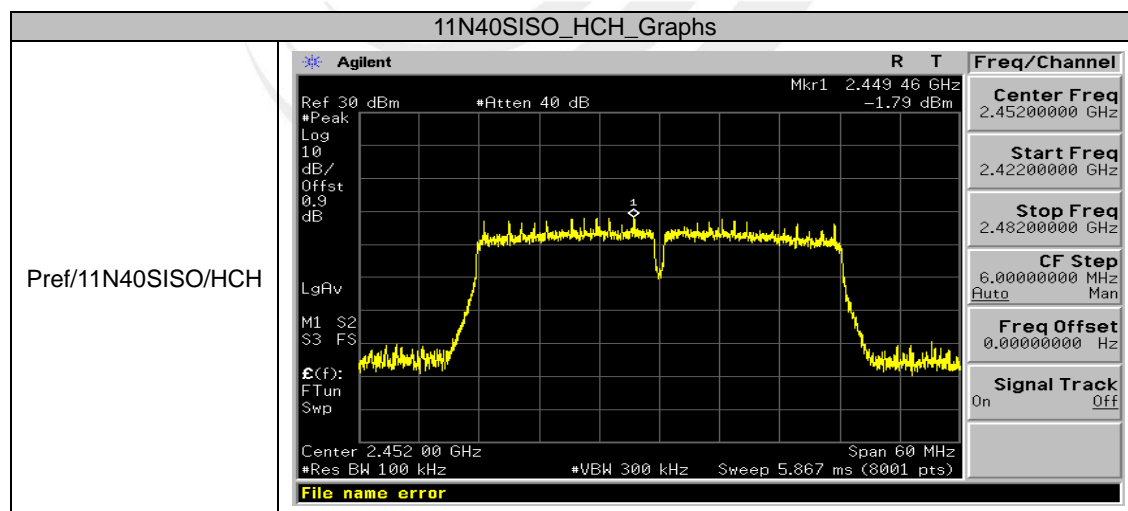
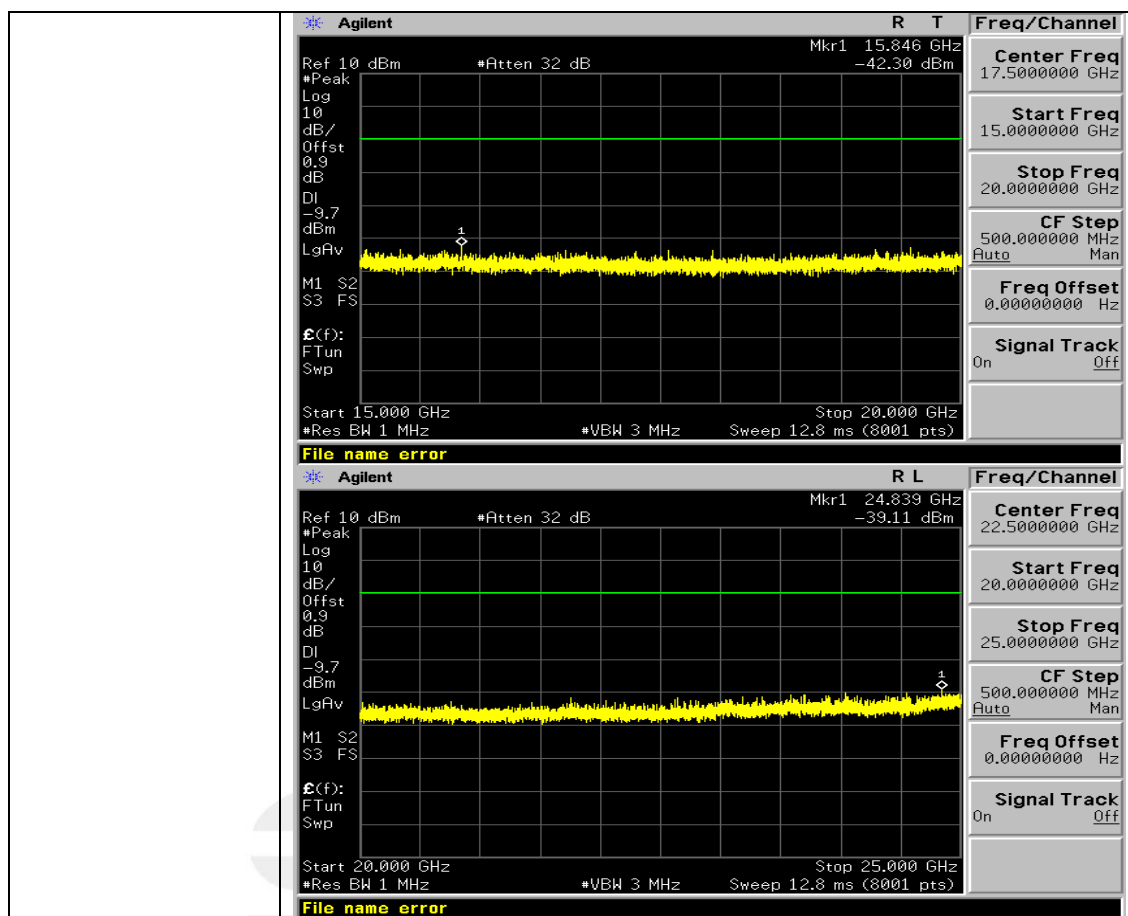


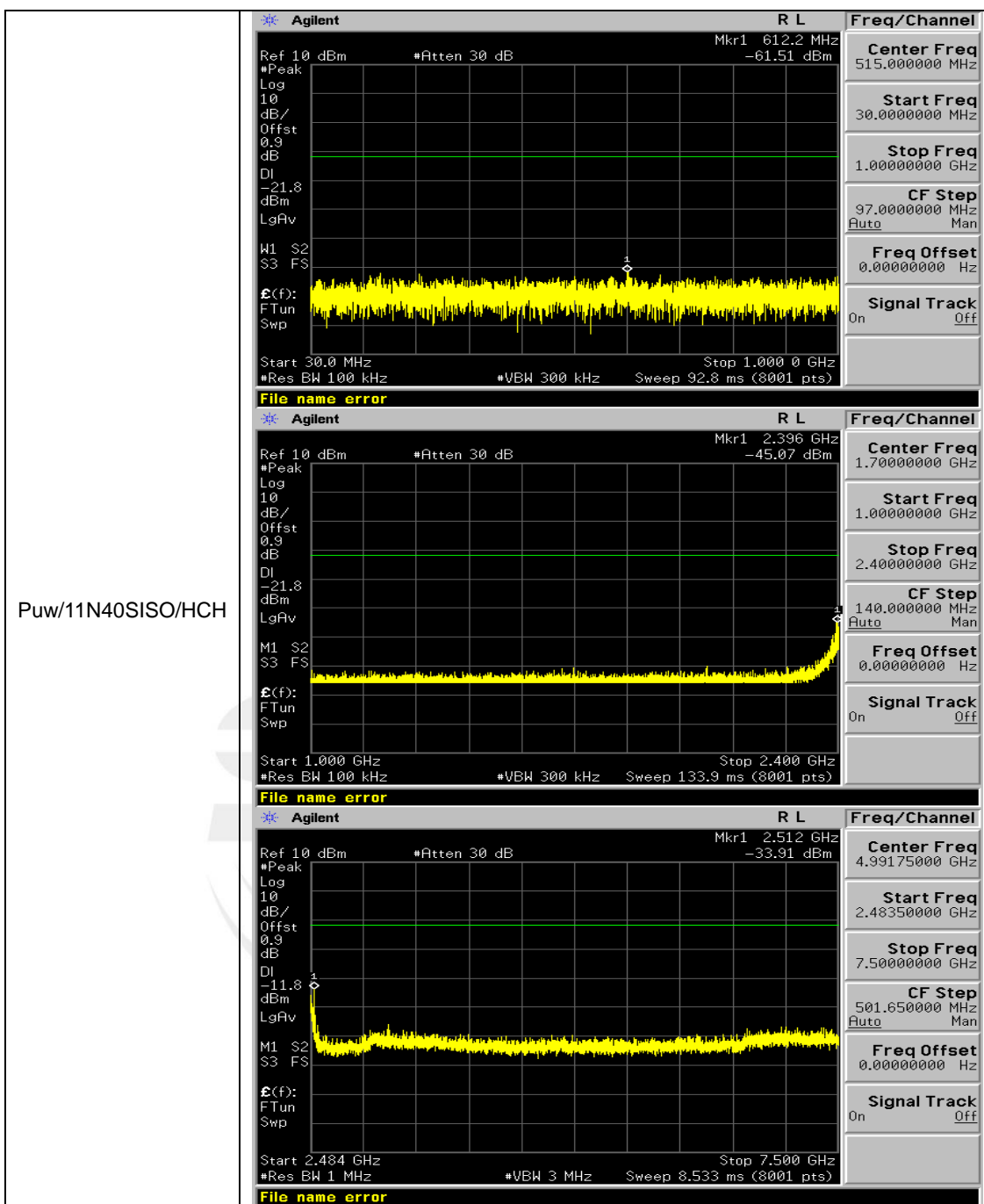


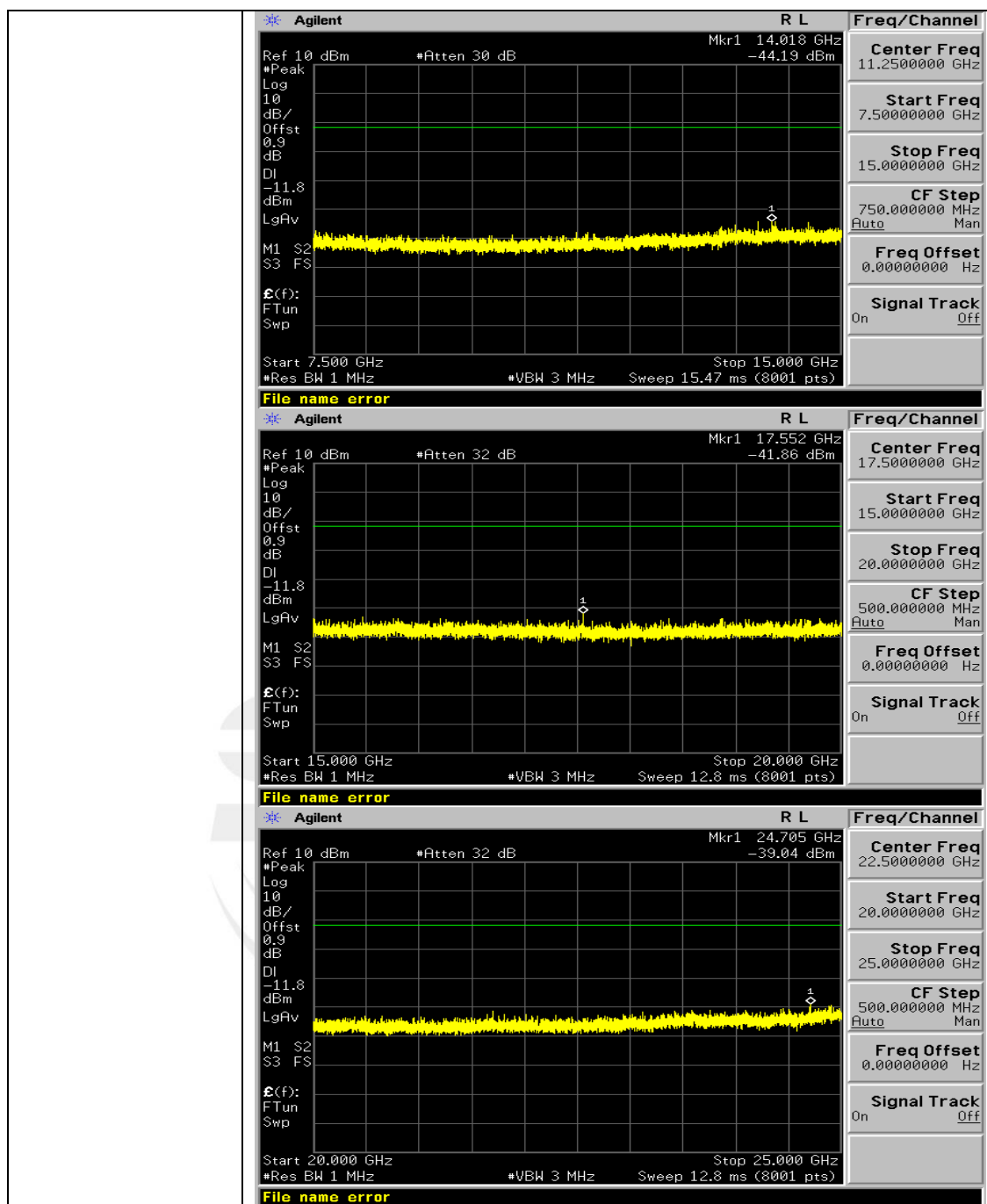












10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 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 SPA Trace 1 Max hold, then View.

Note: The method of AVGPSD in the KDB 558074 item 10.3 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

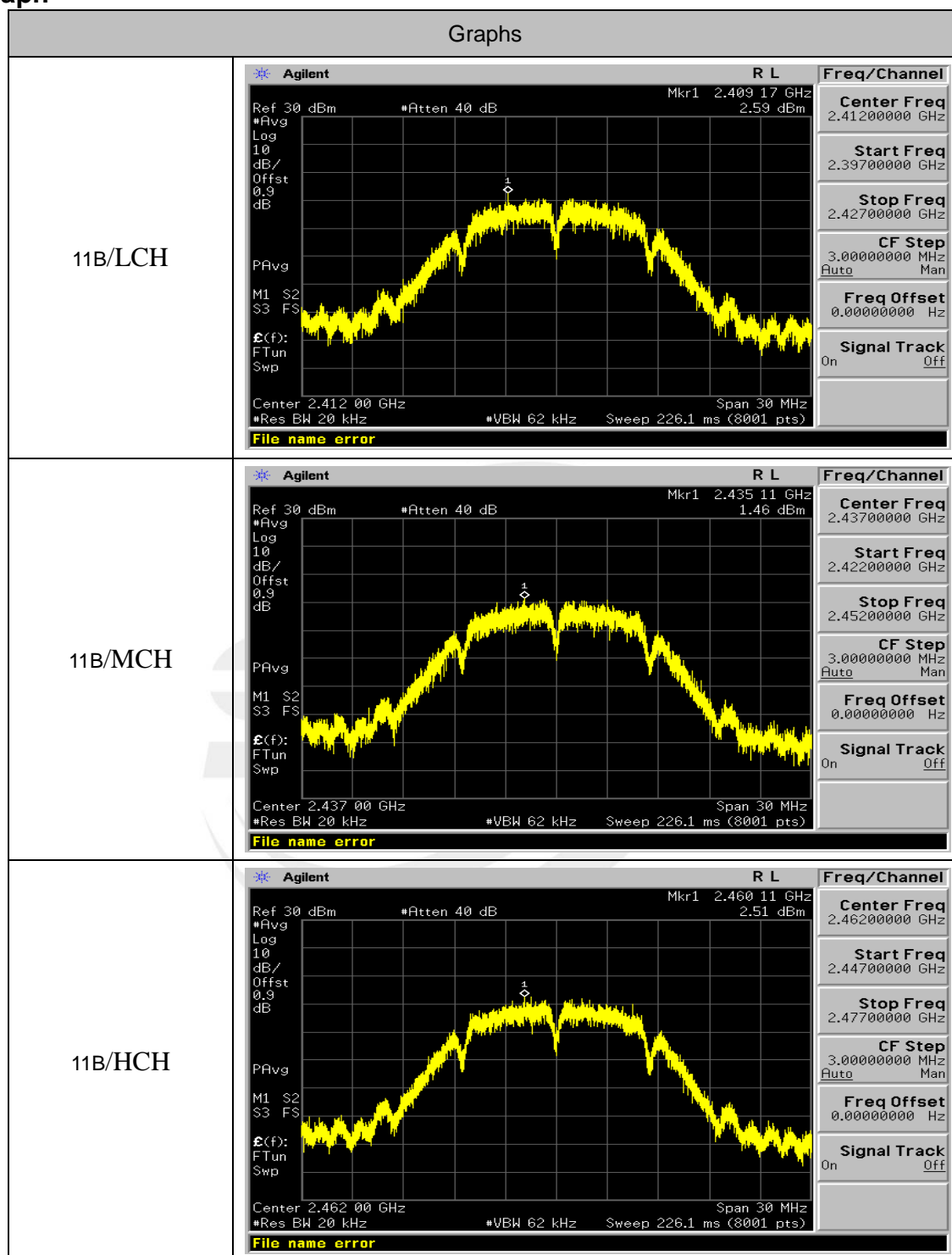
10.3 MEASUREMENT EQUIPMENT USED

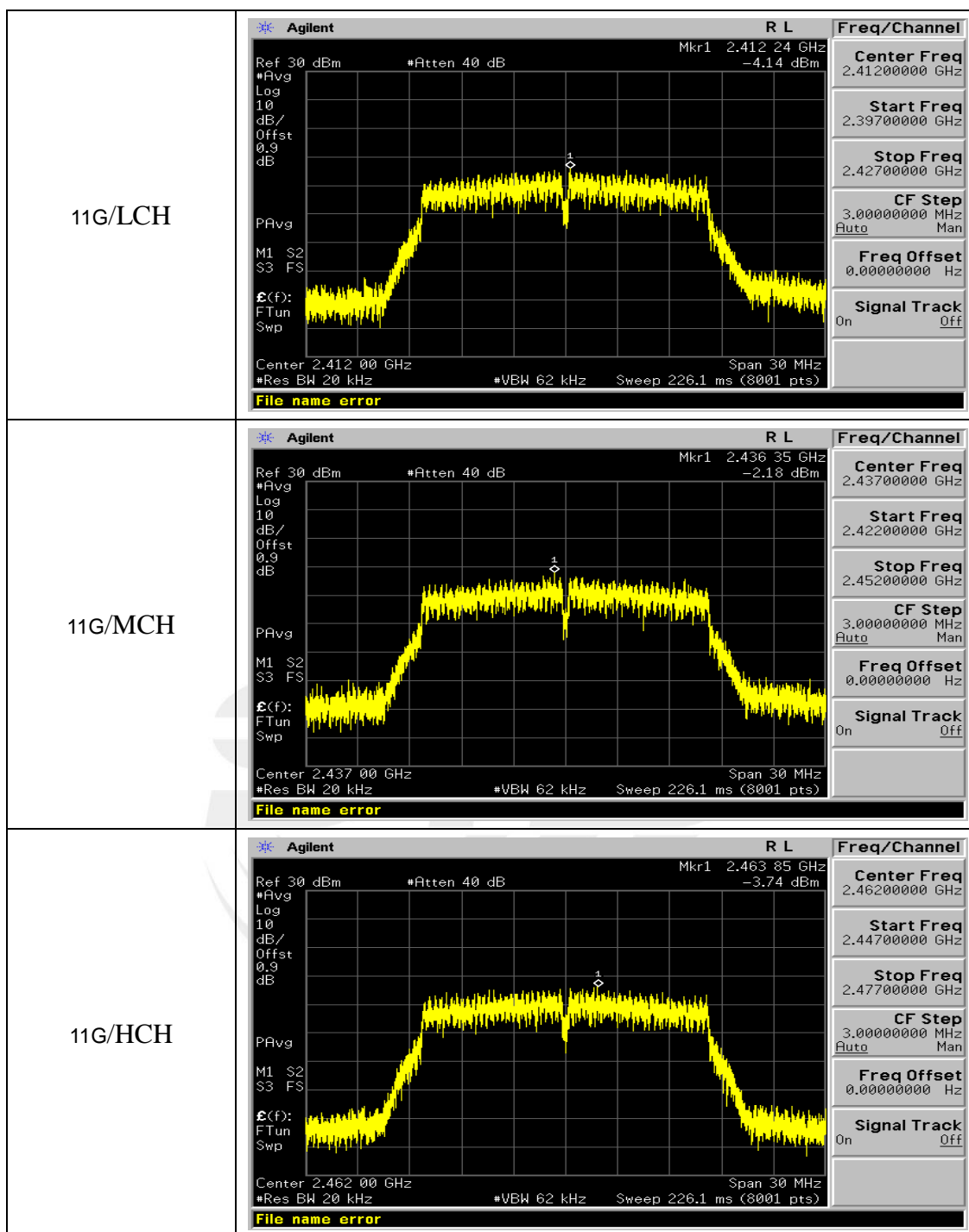
Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

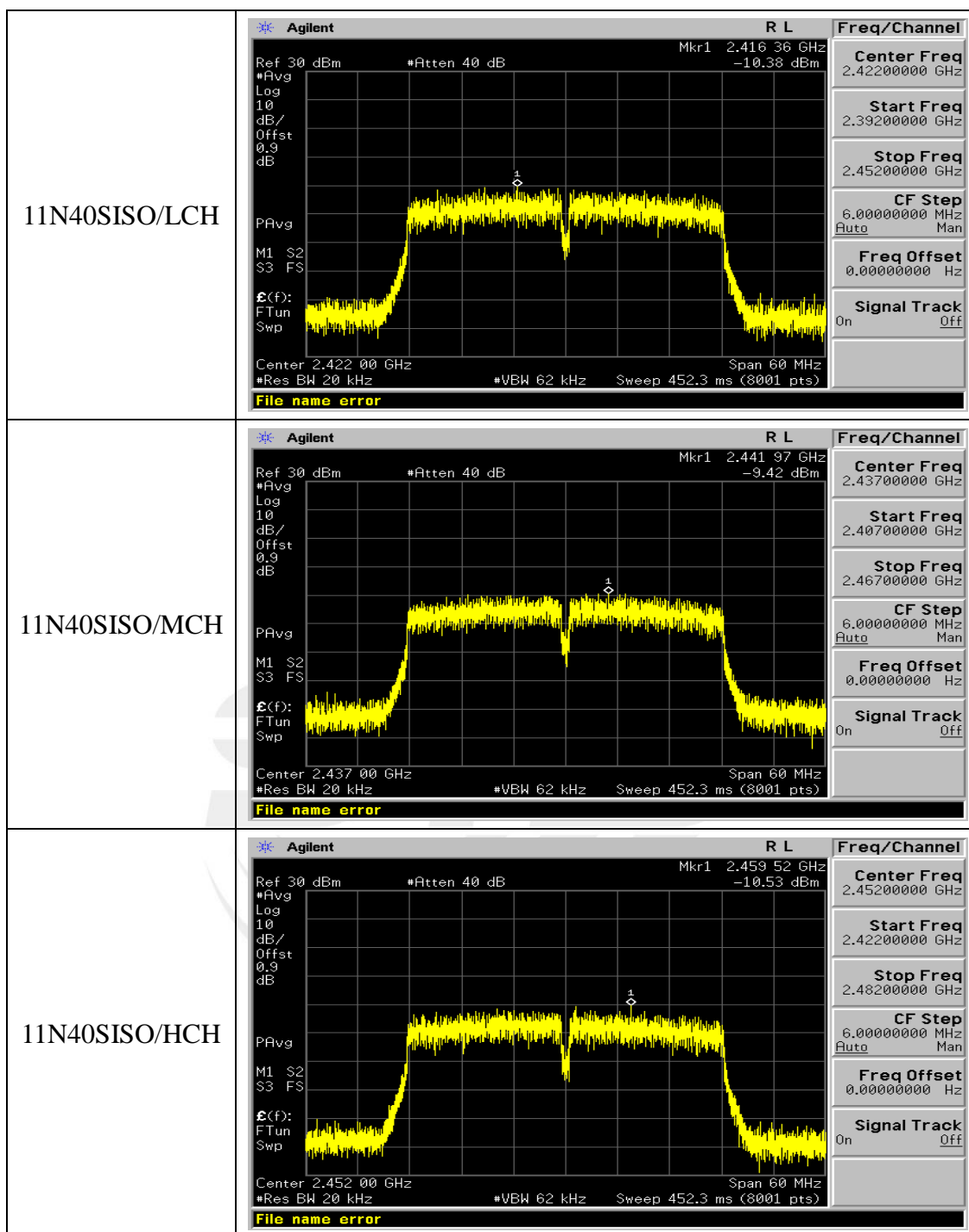
Mode	Channel	Av.PSD [dBm/20kHz]	Limit[dBm/3kHz]	Verdict
11B	LCH	2.59	8	PASS
11B	MCH	1.46	8	PASS
11B	HCH	2.51	8	PASS
11G	LCH	-4.15	8	PASS
11G	MCH	-2.18	8	PASS
11G	HCH	-3.75	8	PASS
11N20SISO	LCH	-4.58	8	PASS
11N20SISO	MCH	-1.59	8	PASS
11N20SISO	HCH	-2.81	8	PASS
11N40SISO	LCH	-10.38	8	PASS
11N40SISO	MCH	-9.42	8	PASS
11N40SISO	HCH	-10.53	8	PASS

Test Graph









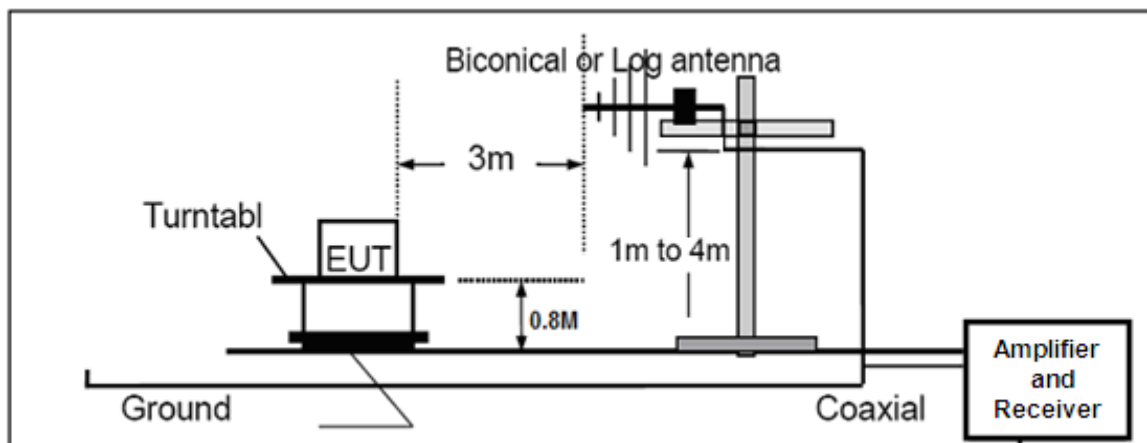
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

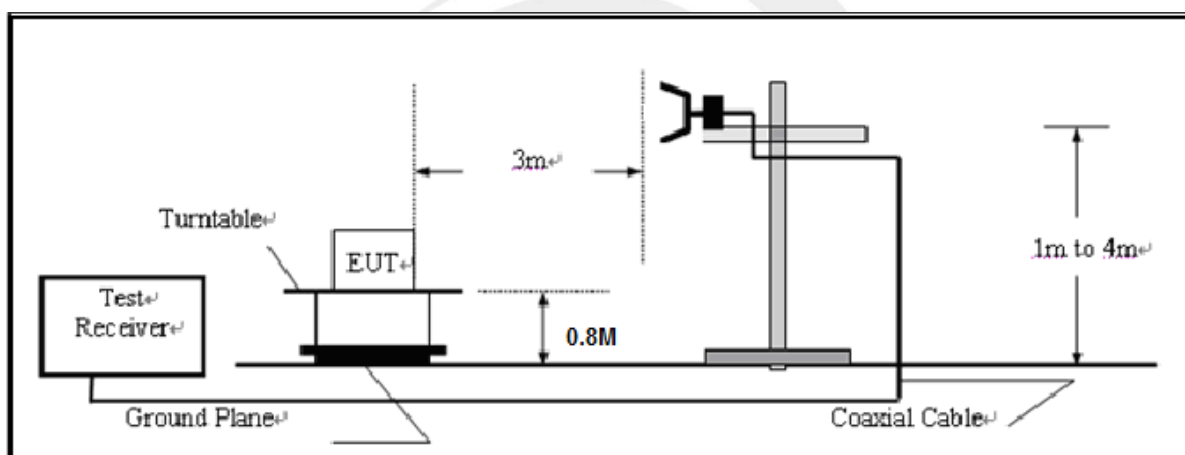
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting 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.

11.2. TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

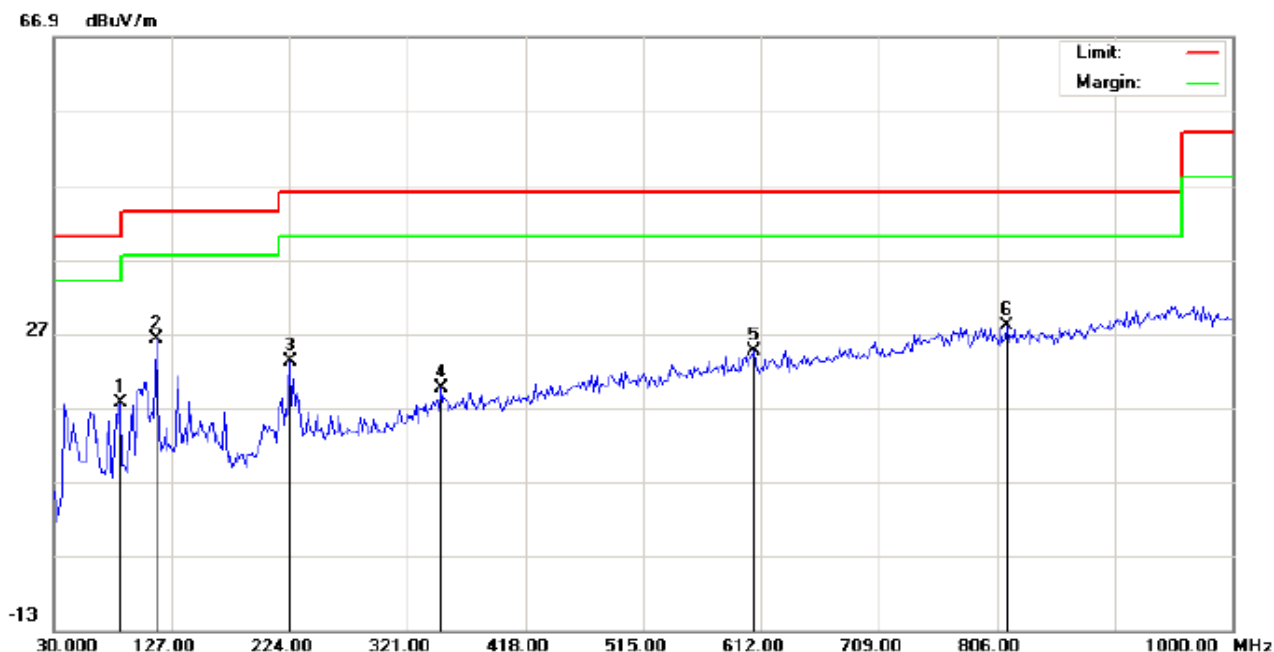
11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: tablet pc

M/N: PC7088

Mode: Low Channel TX

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance: 3m

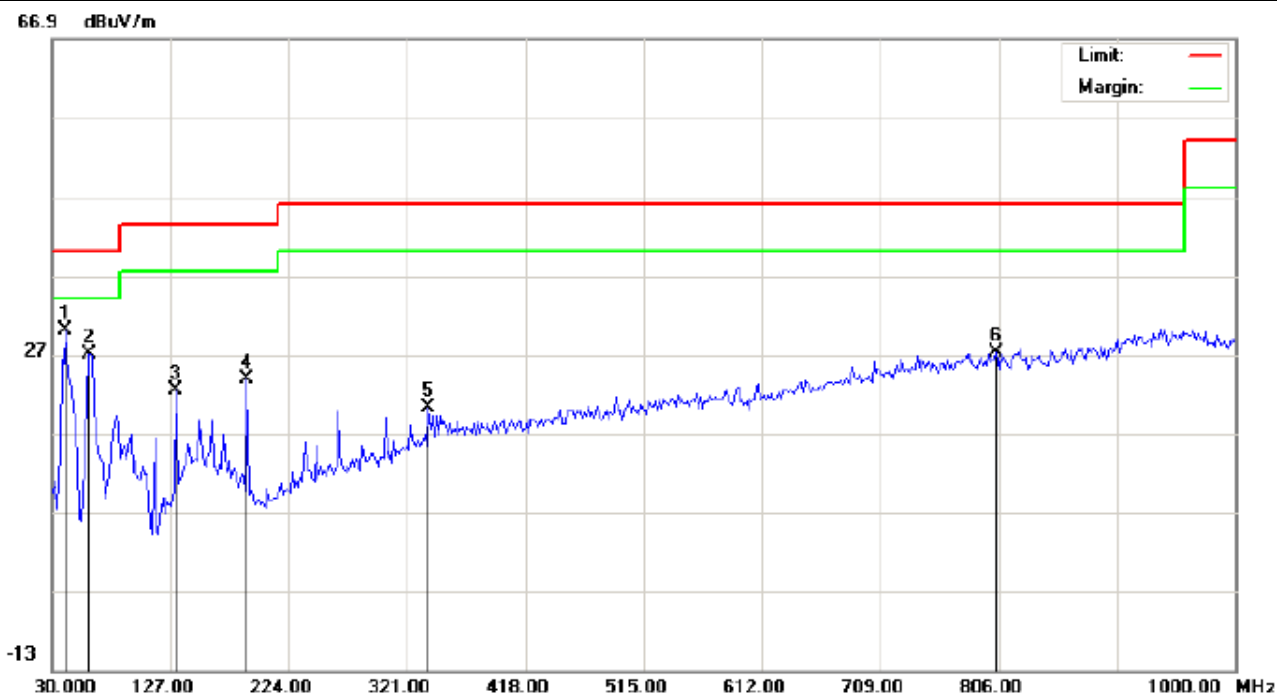
Temperature: 26

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		84.9666	8.11	9.59	17.70	40.00	-22.30	peak			
2	*	114.0667	14.74	11.45	26.19	43.50	-17.31	peak			
3		224.0000	10.39	12.91	23.30	46.00	-22.70	peak			
4		348.4833	0.95	18.64	19.59	46.00	-26.41	peak			
5		605.5333	0.81	23.74	24.55	46.00	-21.45	peak			
6		814.0833	0.77	27.32	28.09	46.00	-17.91	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



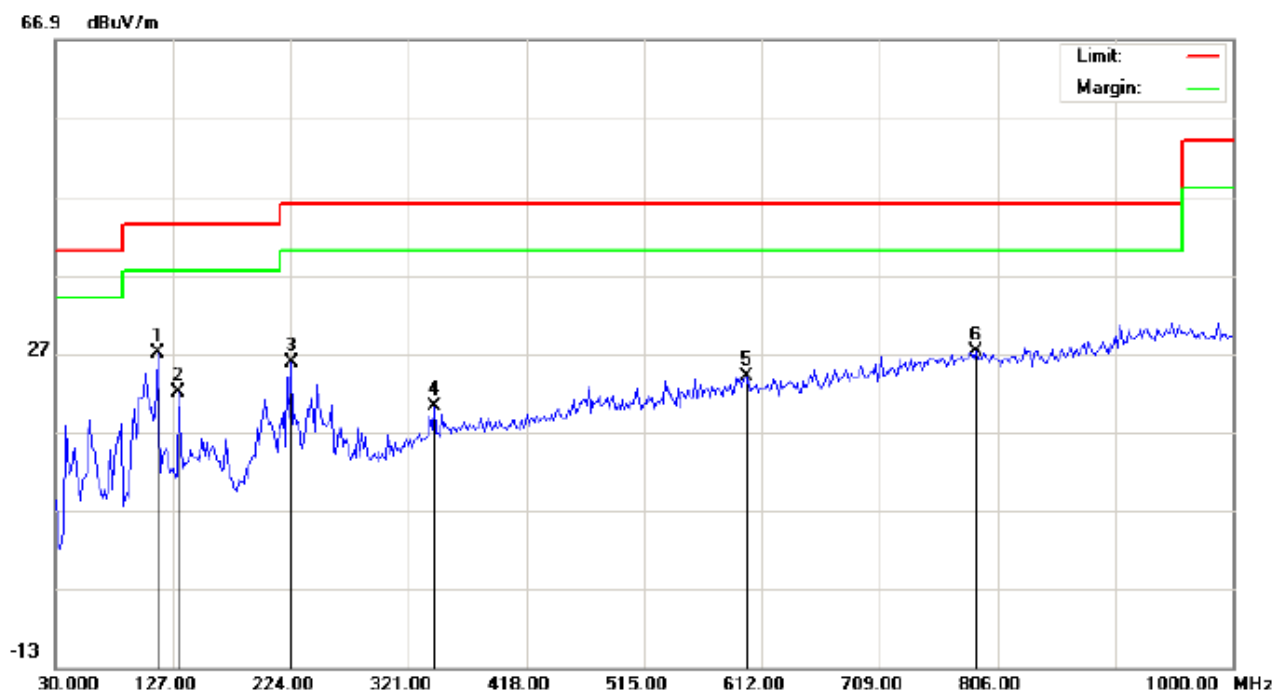
Site: site #1
Limit: FCC Class B 3M Radiation
EUT: tablet pc
M/N: PC7088
Mode: Low Channel TX
Note:

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	21.19	8.81	30.00	40.00	-10.00	peak			
2		60.7167	19.22	7.87	27.09	40.00	-12.91	peak			
3		131.8500	10.55	11.80	22.35	43.50	-21.15	peak			
4		190.0500	12.20	11.52	23.72	43.50	-19.78	peak			
5		338.7833	2.13	17.99	20.12	46.00	-25.88	peak			
6		804.3832	-0.07	27.32	27.25	46.00	-18.75	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Horizontal



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

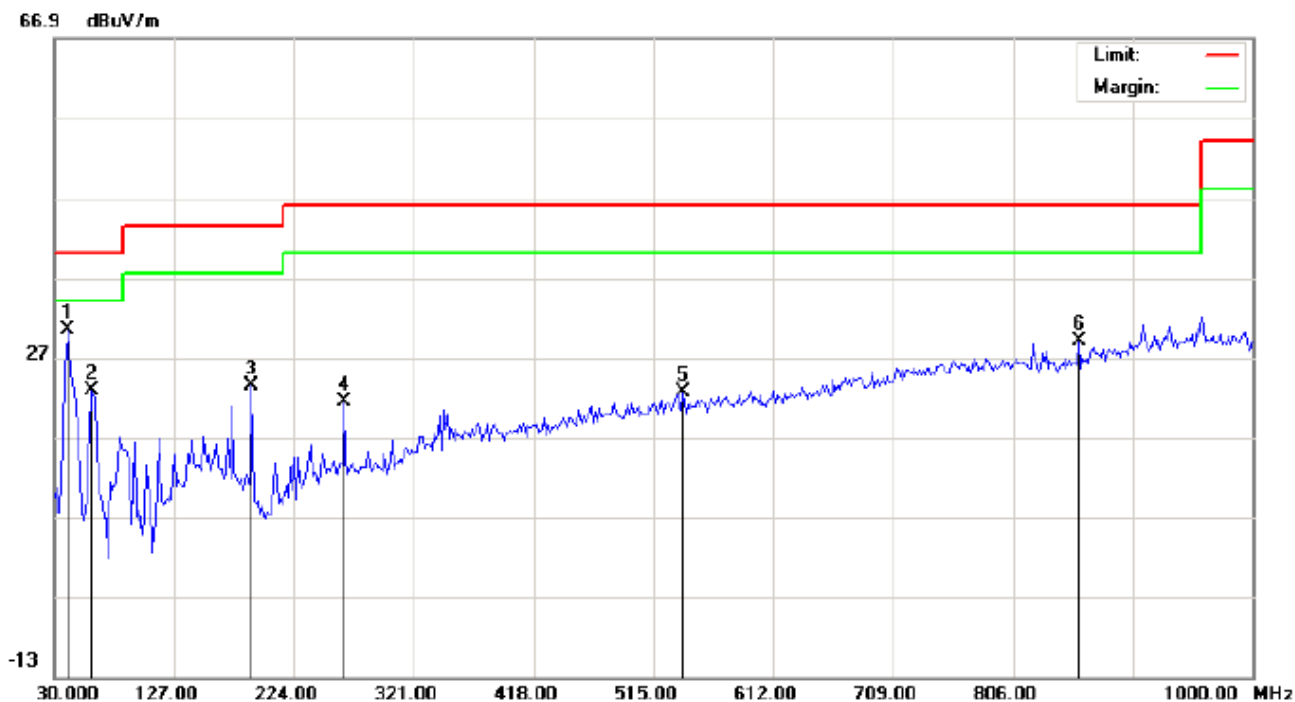
Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance: 3m

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	*	114.0667	15.54	11.45	26.99	43.50	-16.51	peak			
2		131.8500	8.15	13.84	21.99	43.50	-21.51	peak			
3		224.0000	12.90	12.91	25.81	46.00	-20.19	peak			
4		342.0167	1.92	18.21	20.13	46.00	-25.87	peak			
5		599.0667	0.31	23.71	24.02	46.00	-21.98	peak			
6		788.2167	0.00	27.16	27.16	46.00	-18.84	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Vertical



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: tablet pc
M/N: PC7088
Mode: Middle Channel TX
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	21.53	8.81	30.34	40.00	-9.66	peak			
2		60.7167	14.98	7.87	22.85	40.00	-17.15	peak			
3		190.0500	11.81	11.52	23.33	43.50	-20.17	peak			
4		264.4166	7.02	14.34	21.36	46.00	-24.64	peak			
5		539.2500	0.36	22.19	22.55	46.00	-23.45	peak			
6		859.3500	1.46	27.55	29.01	46.00	-16.99	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal



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

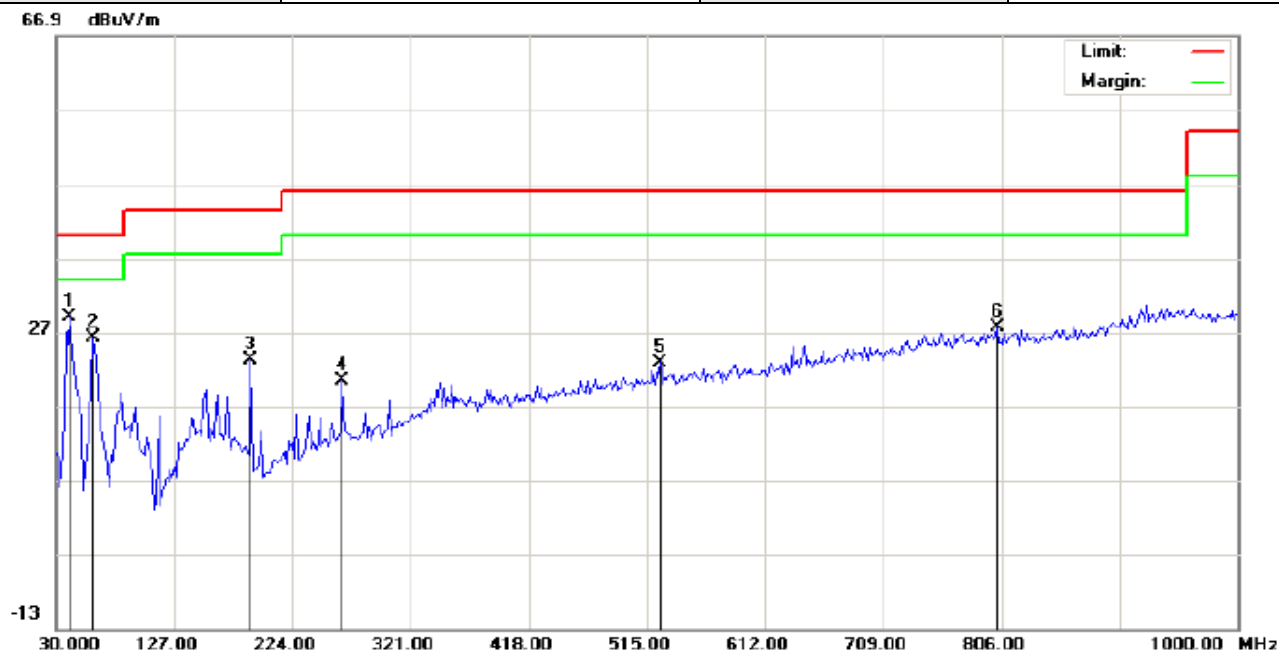
Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance: 3m

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	*	114.0667	15.17	11.45	26.62	43.50	-16.88	peak			
2		224.0000	12.43	12.91	25.34	46.00	-20.66	peak			
3		348.4833	1.53	18.64	20.17	46.00	-25.83	peak			
4		539.2500	1.76	22.19	23.95	46.00	-22.05	peak			
5		718.7000	0.76	25.73	26.49	46.00	-19.51	peak			
6		888.4500	0.46	28.31	28.77	46.00	-17.23	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: tablet pc

M/N: PC7088

Mode: High Channel TX

Note:

Polarization: **Vertical**

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	*	41.3167	20.29	8.81	29.10	40.00	-10.90	peak			
2		60.7167	18.35	7.87	26.22	40.00	-13.78	peak			
3		190.0500	11.76	11.52	23.28	43.50	-20.22	peak			
4		264.4166	6.12	14.34	20.46	46.00	-25.54	peak			
5		526.3167	1.06	21.84	22.90	46.00	-23.10	peak			
6		802.7667	0.20	27.32	27.52	46.00	-18.48	peak			

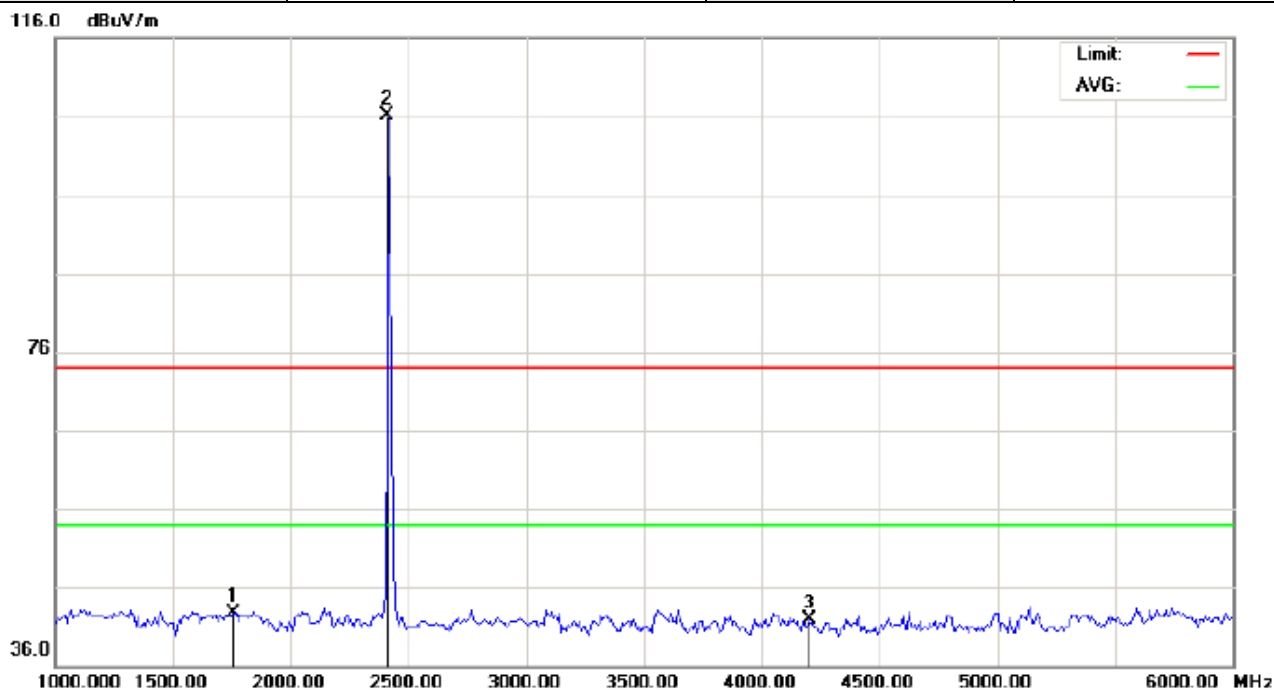
RESULT: PASS

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 ABOVE 1GHZ

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

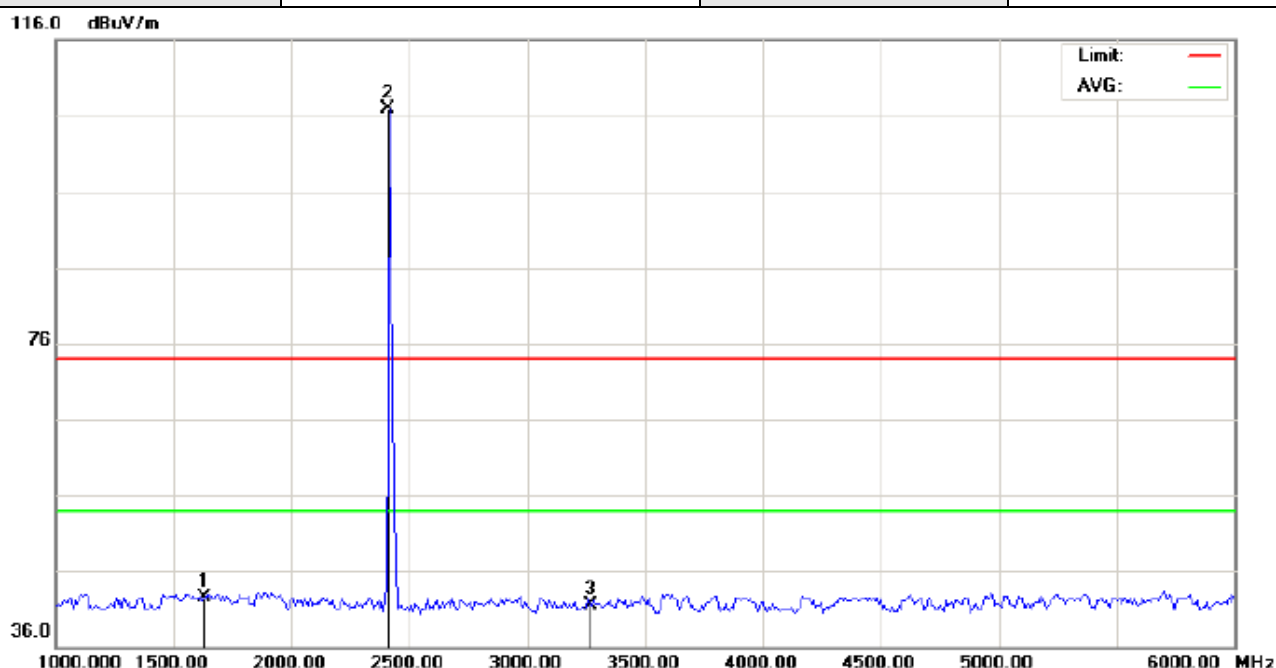


Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b Low Channel TX
Note:

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		1758.333	55.43	-12.66	42.77	74.00	-31.23	peak			
2	*	2412.000	115.78	-9.67	106.11	74.00	32.11	peak			
3		4200.000	46.03	-4.13	41.90	74.00	-32.10	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

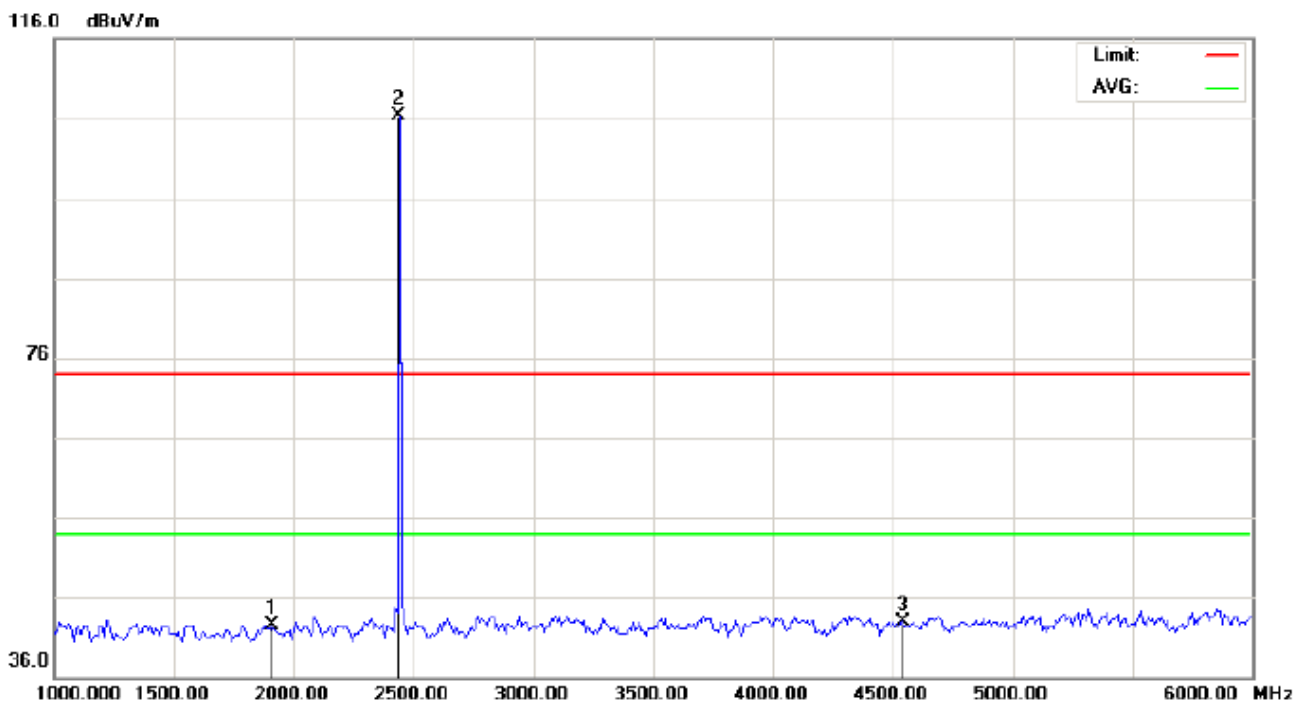


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b Low Channel TX
Note:

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		1633.333	56.52	-13.98	42.54	74.00	-31.46	peak			
2	*	2412.000	116.57	-9.67	106.90	74.00	32.90	peak			
3		3266.667	49.61	-8.11	41.50	74.00	-32.50	peak			

RESULT: PASS

EUT	Mobile Phone	Model Name	AM526
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Horizontal

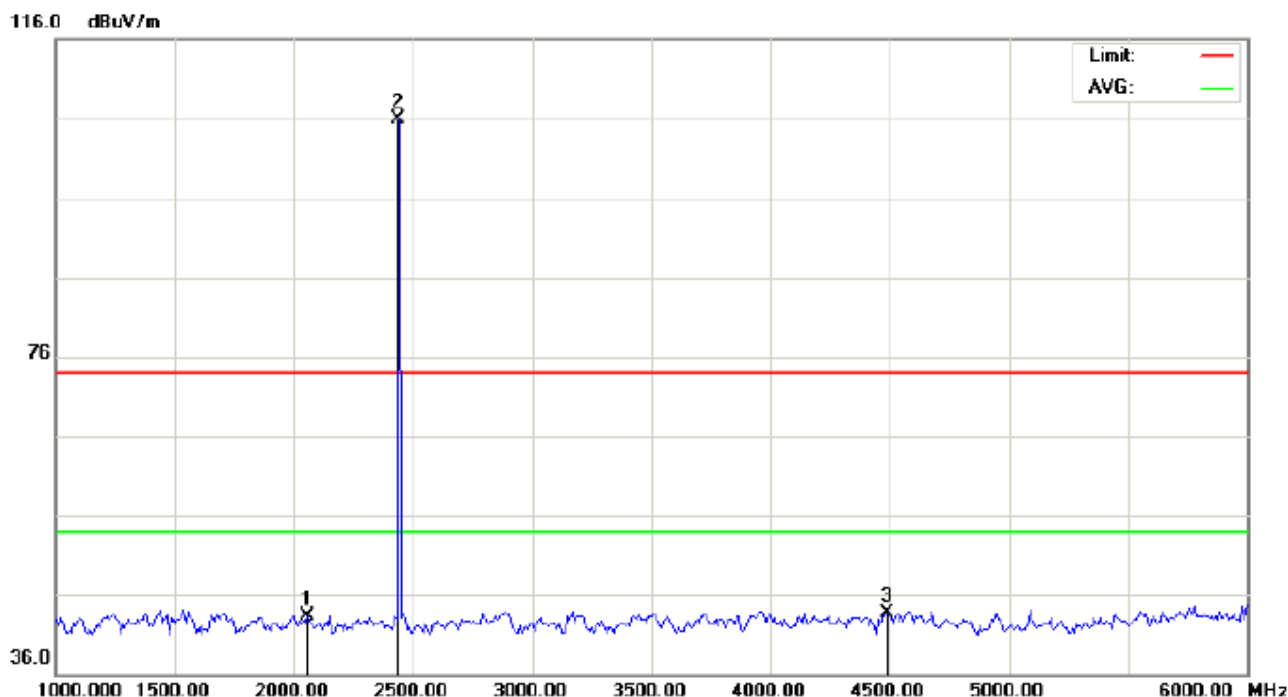


Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b Middle Channel TX
Note:

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		1908.333	53.63	-11.08	42.55	74.00	-31.45	peak			
2	*	2437.000	115.85	-9.64	106.21	74.00	32.21	peak			
3		4541.667	45.88	-3.00	42.88	74.00	-31.12	peak			

RESULT: PASS

EUT	Mobile Phone	Model Name	AM526
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Vertical

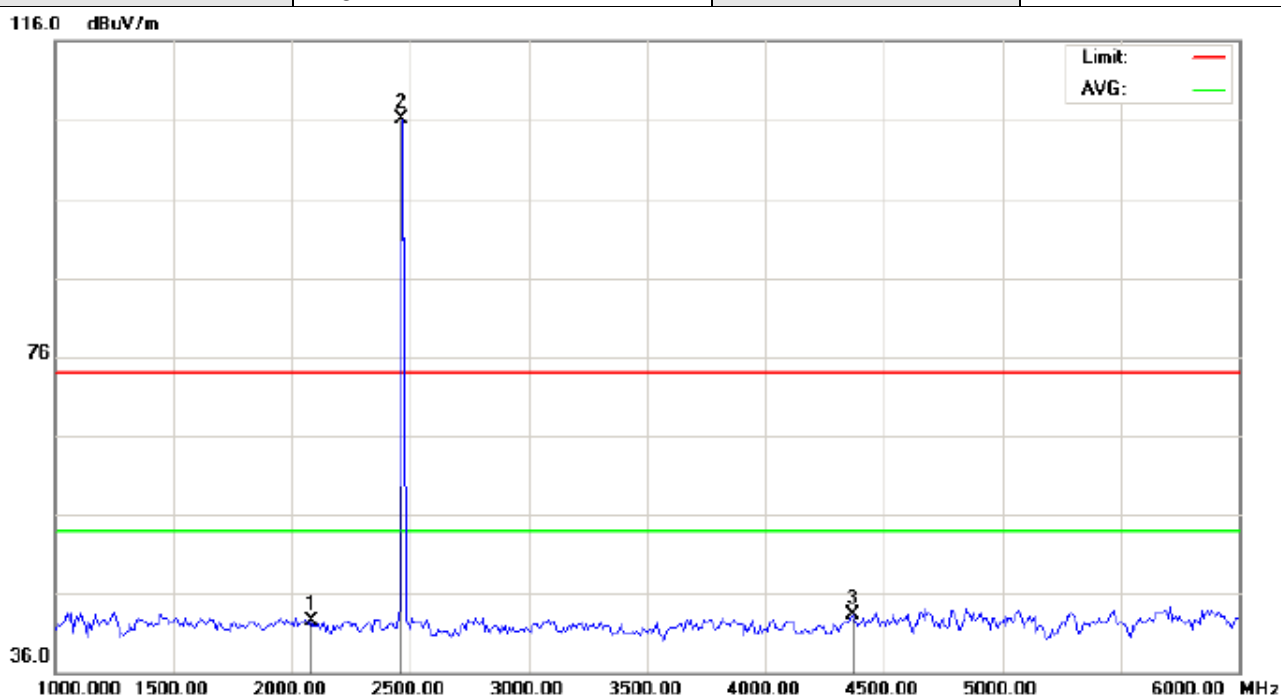


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b Middle Channel TX
Note:

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		2058.333	53.45	-10.06	43.39	74.00	-30.61	peak			
2	*	2437.000	115.64	-9.64	106.00	74.00	32.00	peak			
3		4491.667	46.92	-3.14	43.78	74.00	-30.22	peak			

RESULT: PASS

EUT	Mobile Phone	Model Name	AM526
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

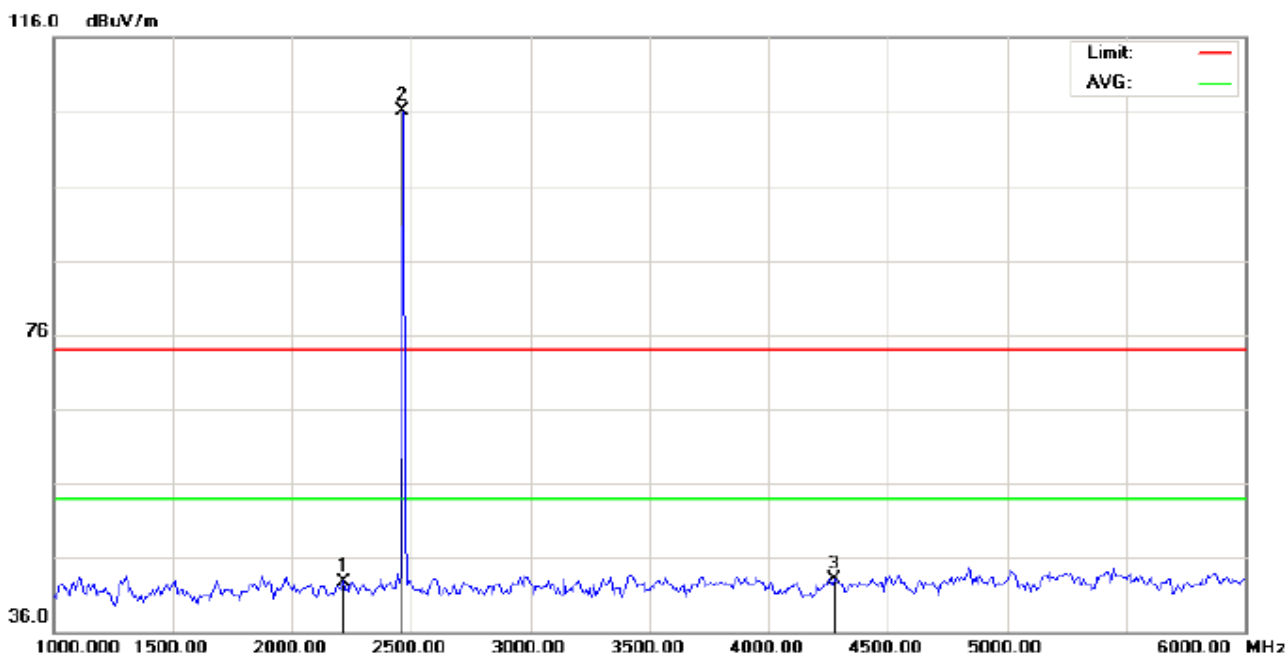


Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b High Channel TX
Note:

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		2083.333	52.58	-10.03	42.55	74.00	-31.45	peak			
2	*	2462.000	115.74	-9.61	106.13	74.00	32.13	peak			
3		4366.667	46.87	-3.56	43.31	74.00	-30.69	peak			

RESULT: PASS

EUT	Mobile Phone	Model Name	AM526
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b High Channel TX
Note:

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		2216.667	52.68	-9.88	42.80	74.00	-31.20	peak			
2	*	2462.000	115.68	-9.61	106.07	74.00	32.07	peak			
3		4275.000	46.95	-3.87	43.08	74.00	-30.92	peak			

RESULT: PASS

Note: The other modes radiation emissions have more than 20dB margin.

All modes radiation emission from 6GHz to 25GHz at least have 20dB margin.

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

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

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

1) Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

2) Conducted Emissions at the bang edge

a) The transmitter output was connected to the spectrum analyzer

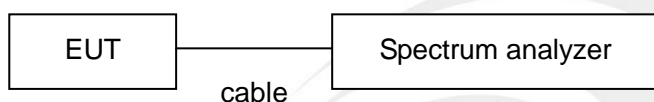
b) Set RBW=100kHz, VBW=300kHz

c) Suitable frequency span including 100kHz bandwidth from band edge

12.2. TEST SET-UP

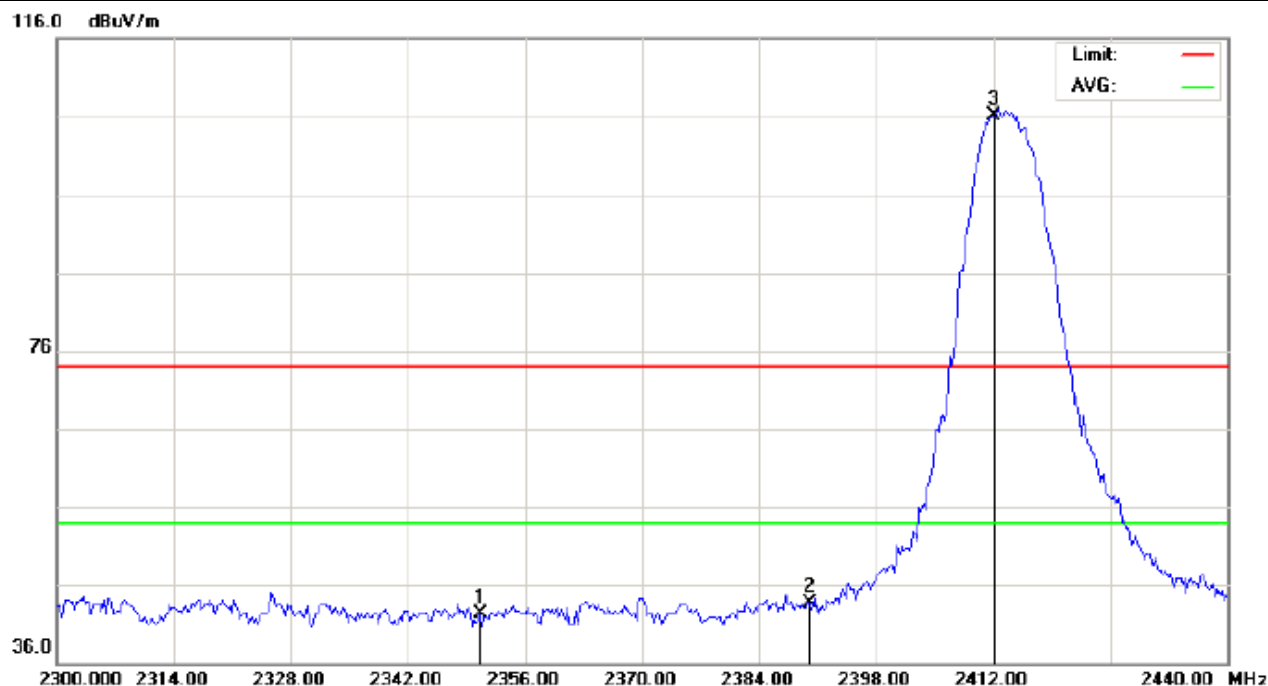
Radiated same as 11.2

Conducted set up



12.3. Radiated Test Result

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

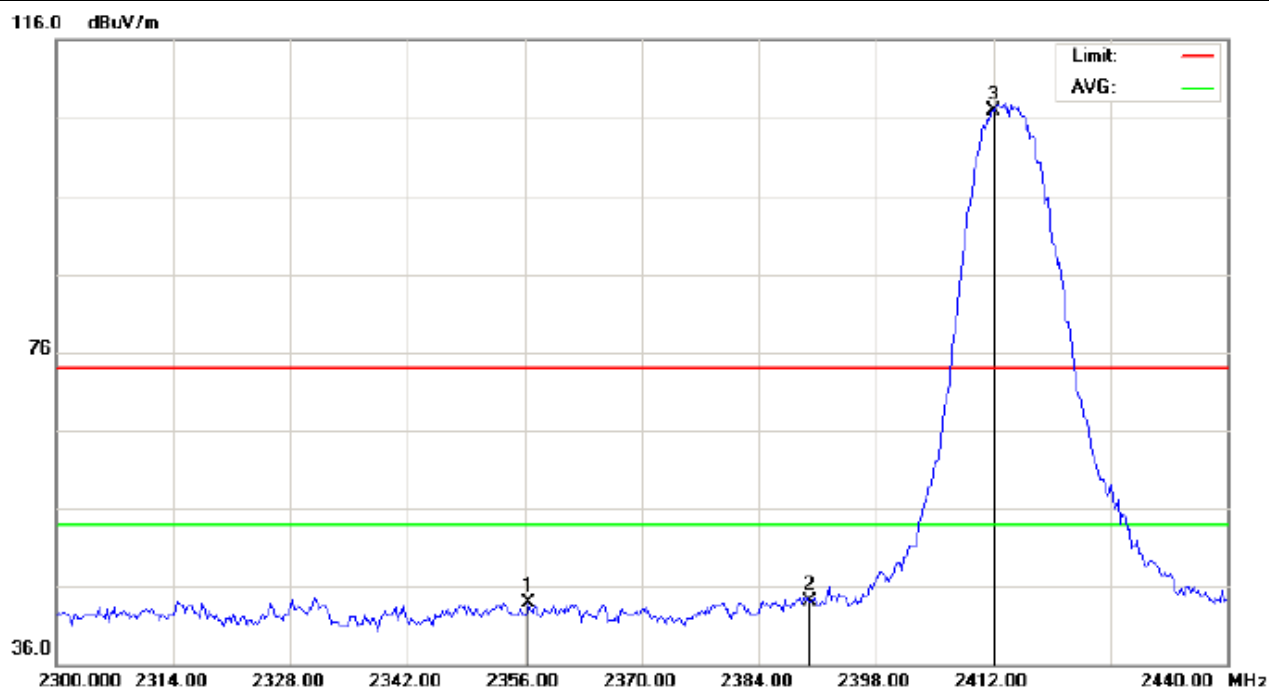


Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b Low Channel TX
Note:

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		2350.633	52.02	-9.73	42.29	74.00	-31.71	peak			
2		2390.000	53.40	-9.69	43.71	74.00	-30.29	peak			
3	*	2412.000	115.86	-9.67	106.19	74.00	32.19	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

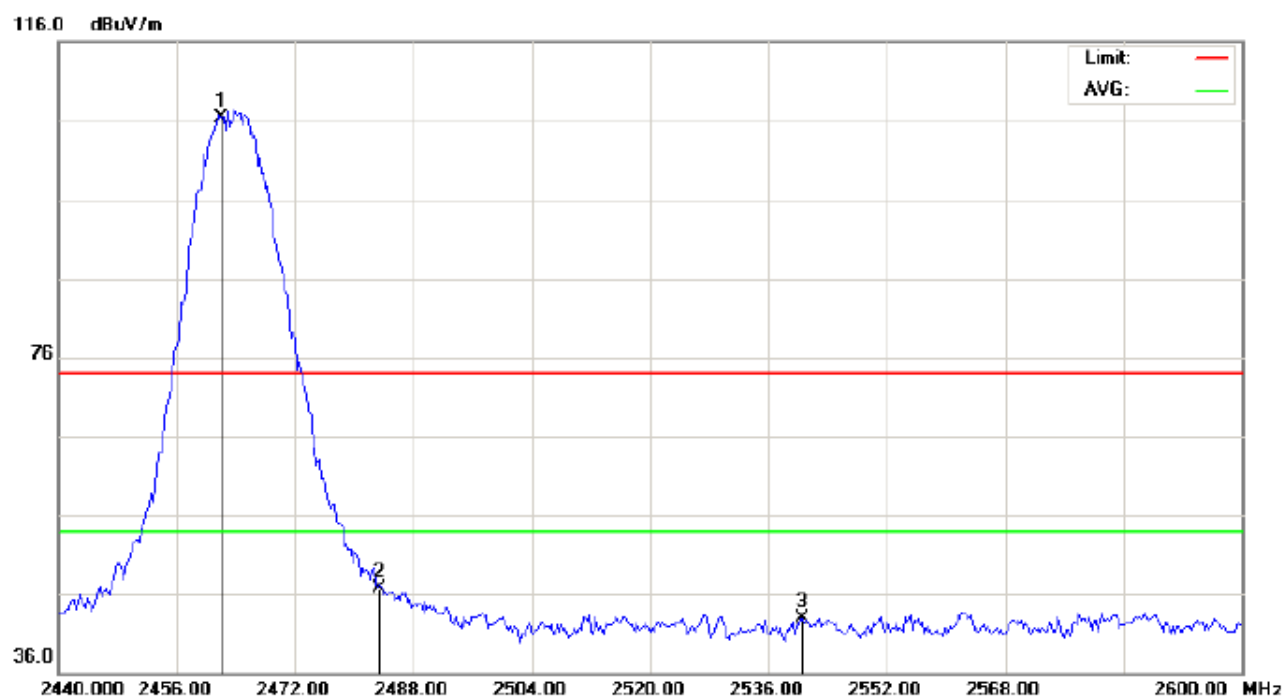


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b Low Channel TX
Note:

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		2356.467	53.59	-9.73	43.86	74.00	-30.14	peak			
2		2390.000	53.77	-9.69	44.08	74.00	-29.92	peak			
3	*	2412.000	116.58	-9.67	106.91	74.00	32.91	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

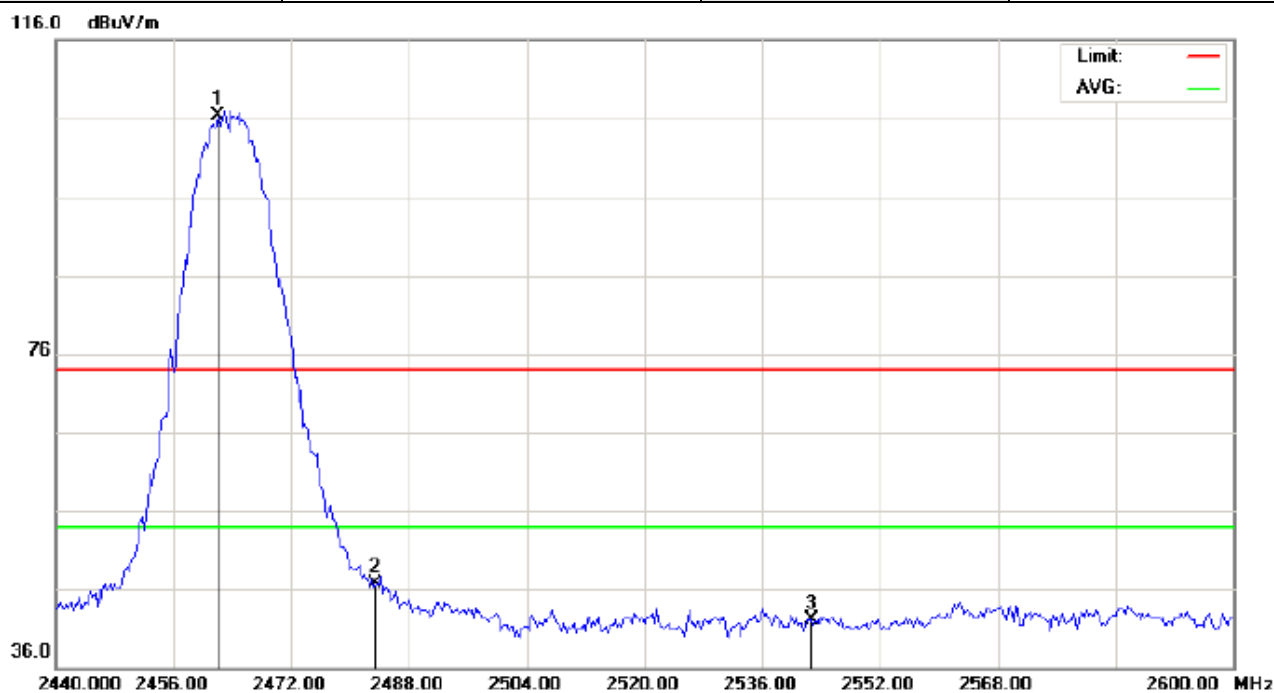


Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b High Channel TX
Note:

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	*	2462.000	115.89	-9.61	106.28	74.00	32.28	peak			
2		2483.500	56.31	-9.59	46.72	74.00	-27.28	peak			
3		2540.533	52.43	-9.47	42.96	74.00	-31.04	peak			

RESULT: PASS

EUT	tablet pc	Model Name	PC7088
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7088
Mode: 802.11b High Channel TX
Note:

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	*	2462.000	115.92	-9.61	106.31	74.00	32.31	peak			
2		2483.500	56.22	-9.59	46.63	74.00	-27.37	peak			
3		2542.667	51.64	-9.47	42.17	74.00	-31.83	peak			

RESULT: PASS

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

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

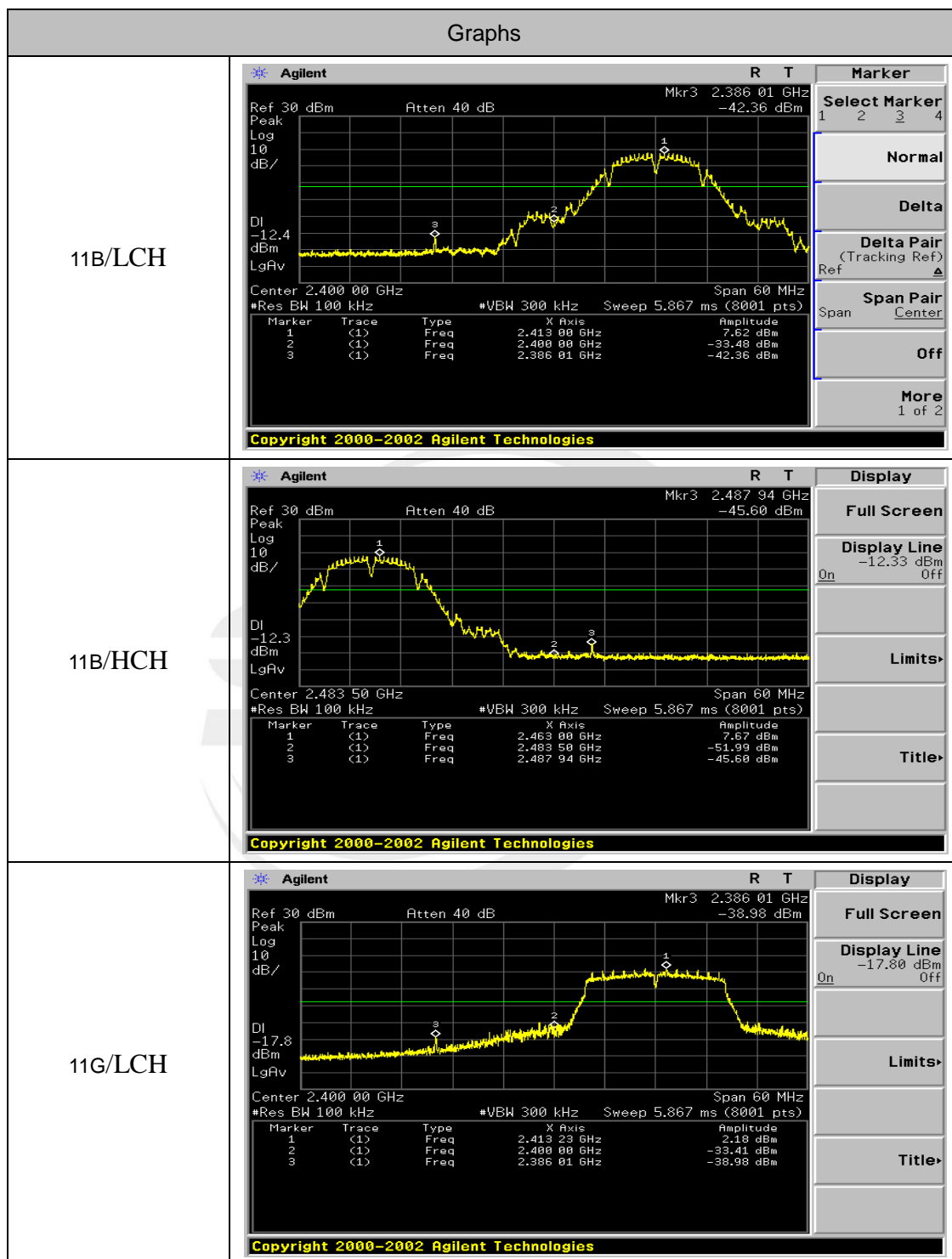
The "Factor" value can be calculated automatically by software of measurement system.

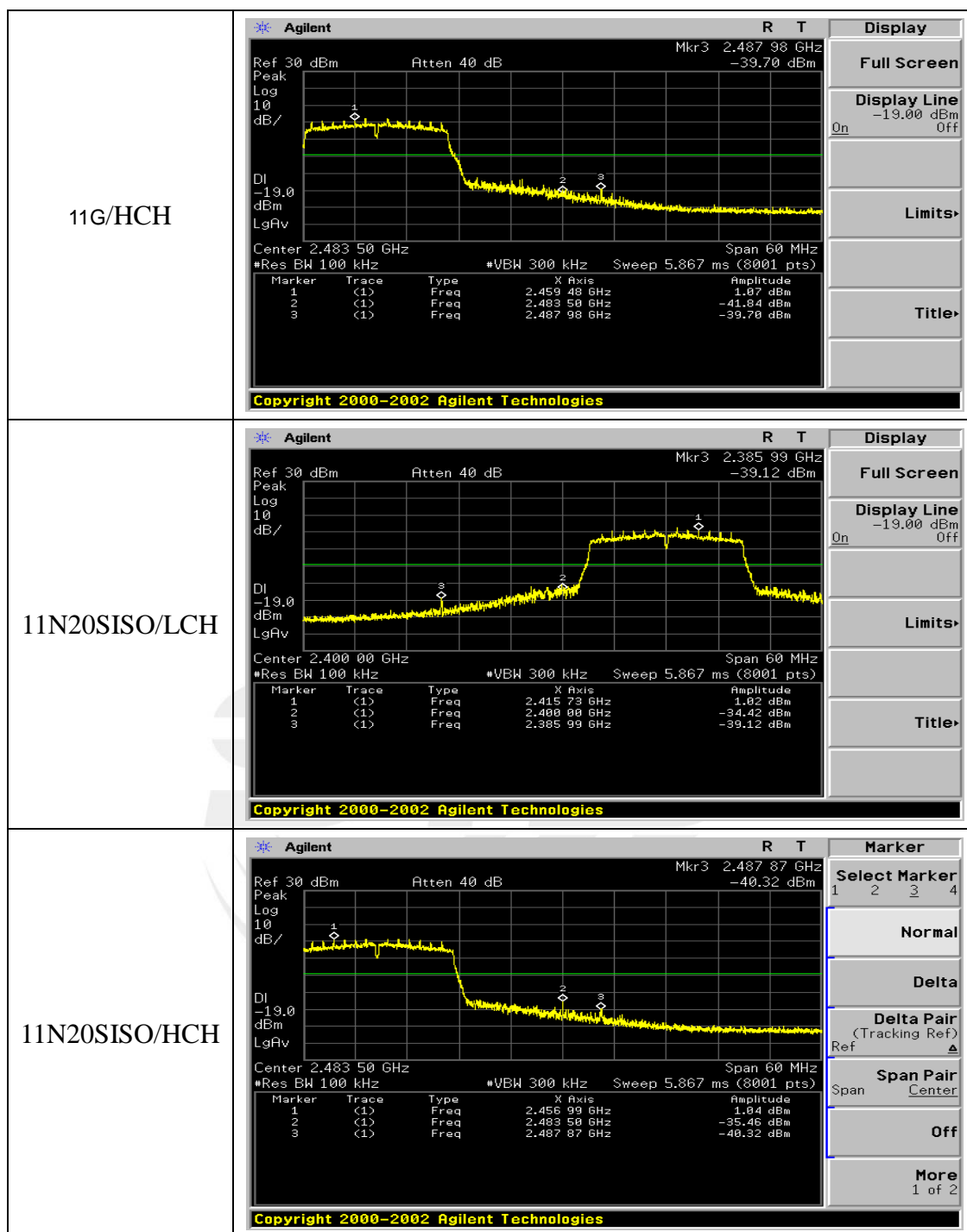
12.4. Conducted Test Result

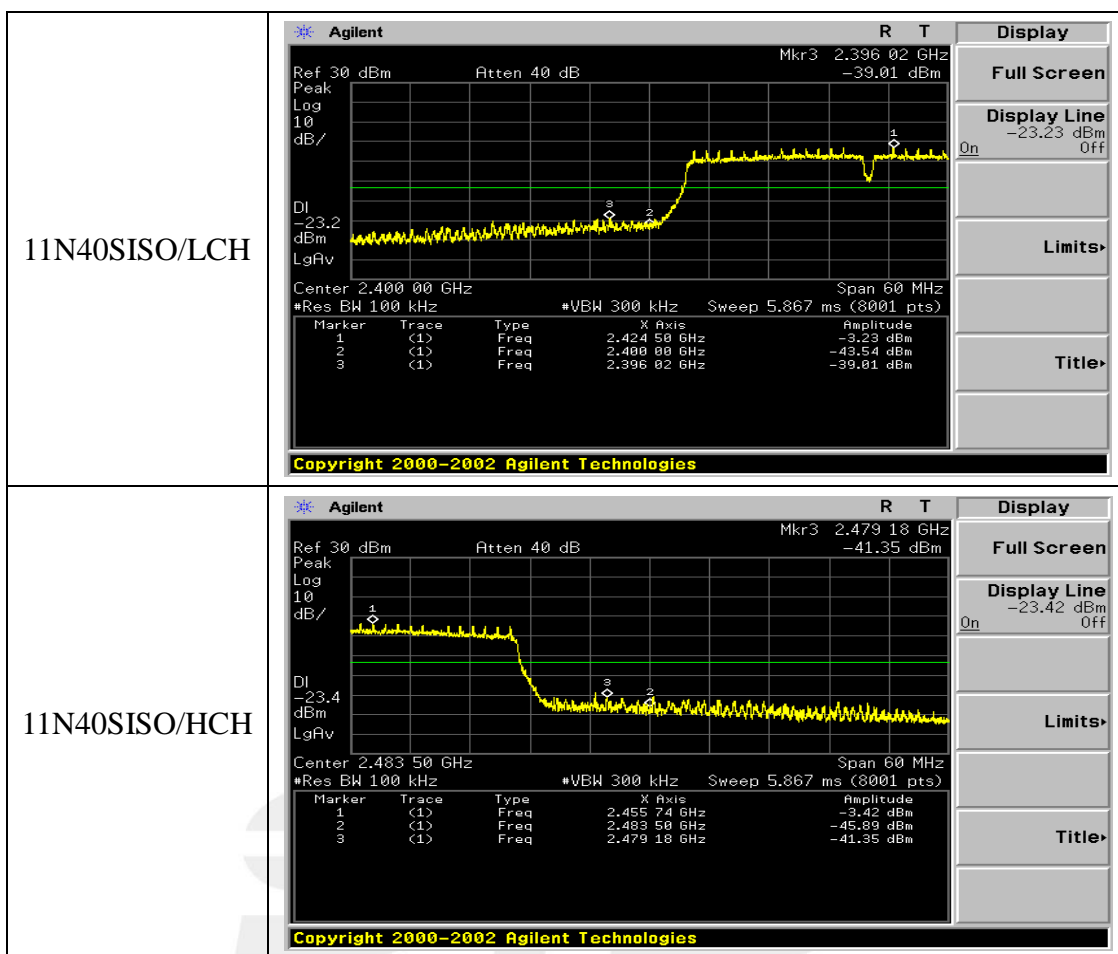
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	7.62	-33.48	-12.4	PASS
11B	HCH	7.67	-45.60	-12.3	PASS
11G	LCH	2.18	-33.41	-17.8	PASS
11G	HCH	1.07	-39.70	-19	PASS
11N20SISO	LCH	1.02	-34.42	-19	PASS
11N20SISO	HCH	1.04	-35.46	-19	PASS
11N40SISO	LCH	-3.23	-39.01	-23.2	PASS
11N40SISO	HCH	-3.42	-41.35	-23.4	PASS



Test Graph







13. FCC LINE CONDUCTED EMISSION TEST

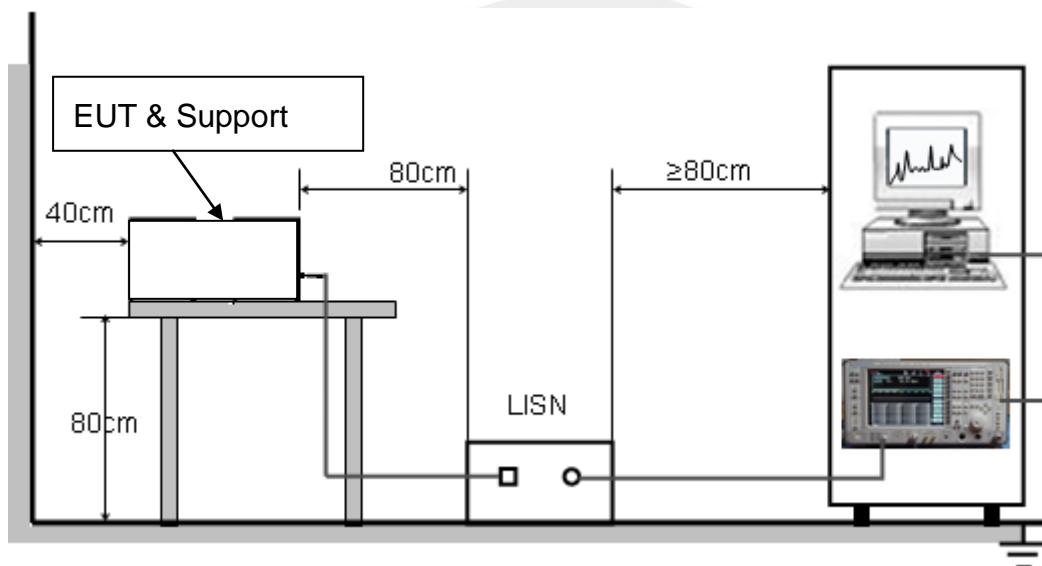
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. 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 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.

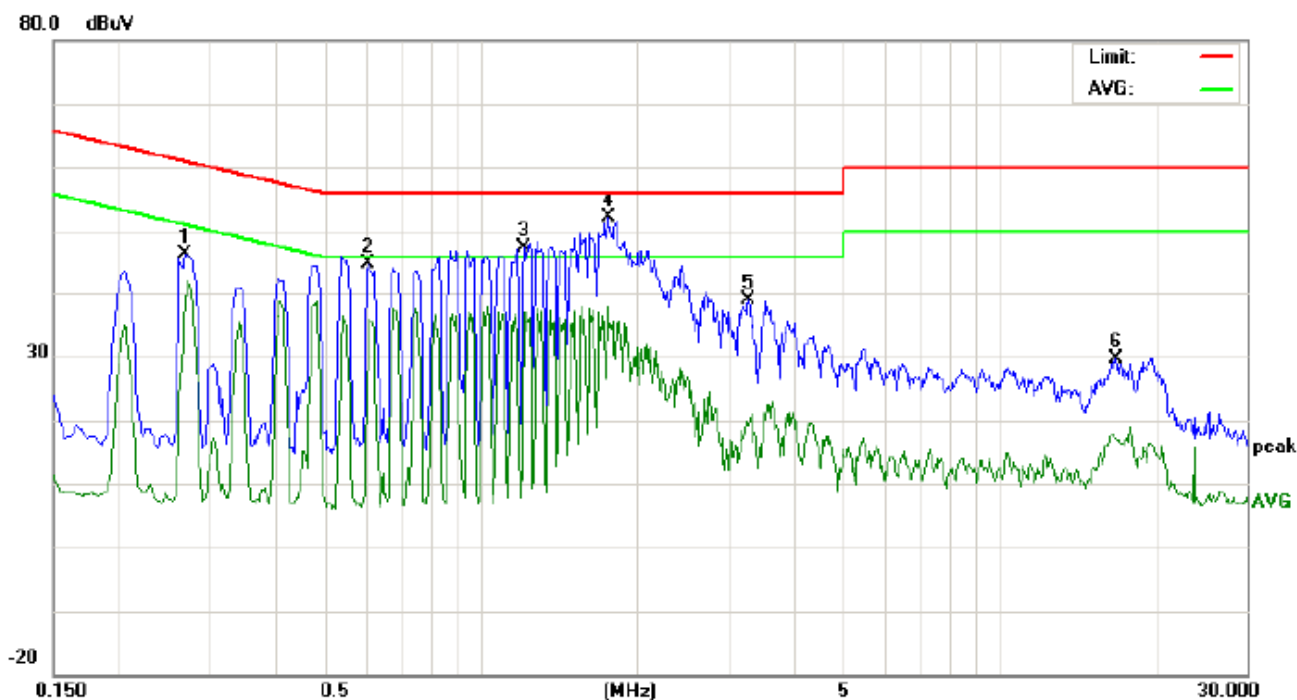
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. 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.

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

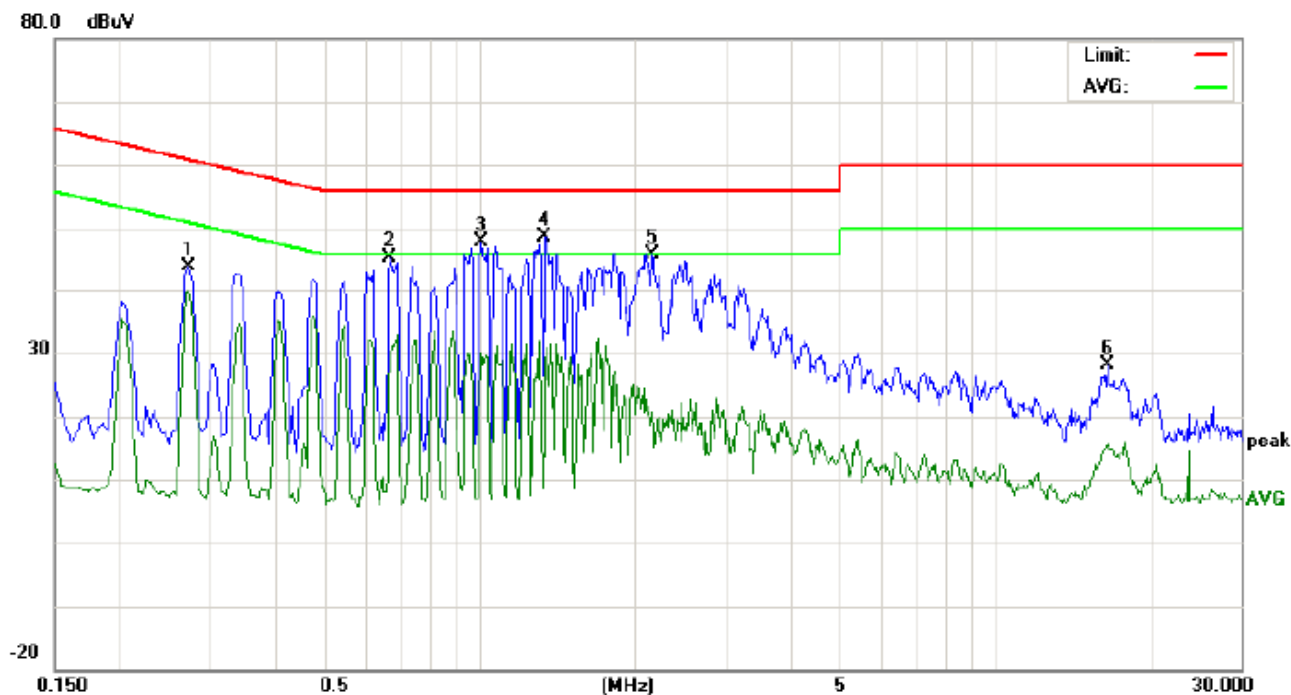
LINE CONDUCTED EMISSION TEST LINE 1-L



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: Normal Operating(WIFI)
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	0.2700	36.13		29.38	10.28	46.41		39.66	61.12	51.12	-14.71	-11.46	P	
2	0.6060	34.46		20.67	10.31	44.77		30.98	56.00	46.00	-11.23	-15.02	P	
3	1.2140	37.09		26.50	10.37	47.46		36.87	56.00	46.00	-8.54	-9.13	P	
4	1.7580	41.81		27.52	10.30	52.11		37.82	56.00	46.00	-3.89	-8.18	P	
5	3.2900	28.43		8.69	10.53	38.96		19.22	56.00	46.00	-17.04	-26.78	P	
6	16.7860	19.39		7.06	10.13	29.52		17.19	60.00	50.00	-30.48	-32.81	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: Normal Operating(WIFI)

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	0.2740	33.53		29.70	10.28	43.81		39.98	60.99	50.99	-17.18	-11.01	P	
2	0.6700	35.06		18.25	10.34	45.40		28.59	56.00	46.00	-10.60	-17.41	P	
3	1.0060	37.57		19.80	10.37	47.94		30.17	56.00	46.00	-8.06	-15.83	P	
4	1.3420	38.23		17.59	10.38	48.61		27.97	56.00	46.00	-7.39	-18.03	P	
5	2.1619	35.68		10.41	10.29	45.97		20.70	56.00	46.00	-10.03	-25.30	P	
6	16.4900	18.09		5.43	10.12	28.21		15.55	60.00	50.00	-31.79	-34.45	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



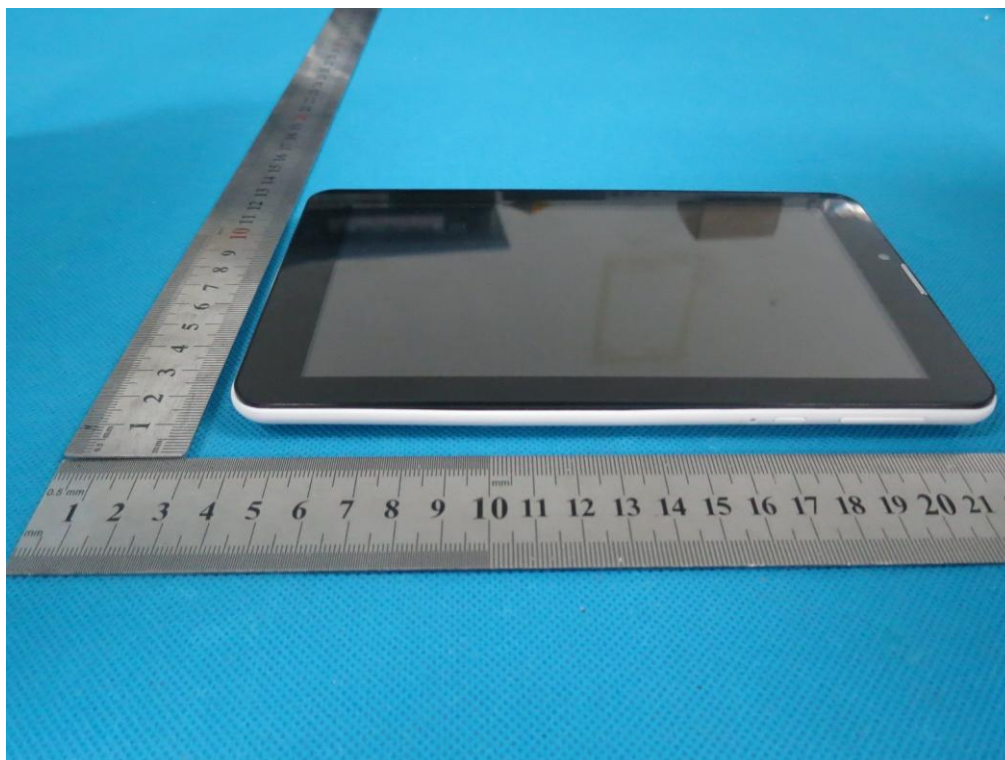
BACK VIEW OF EUT



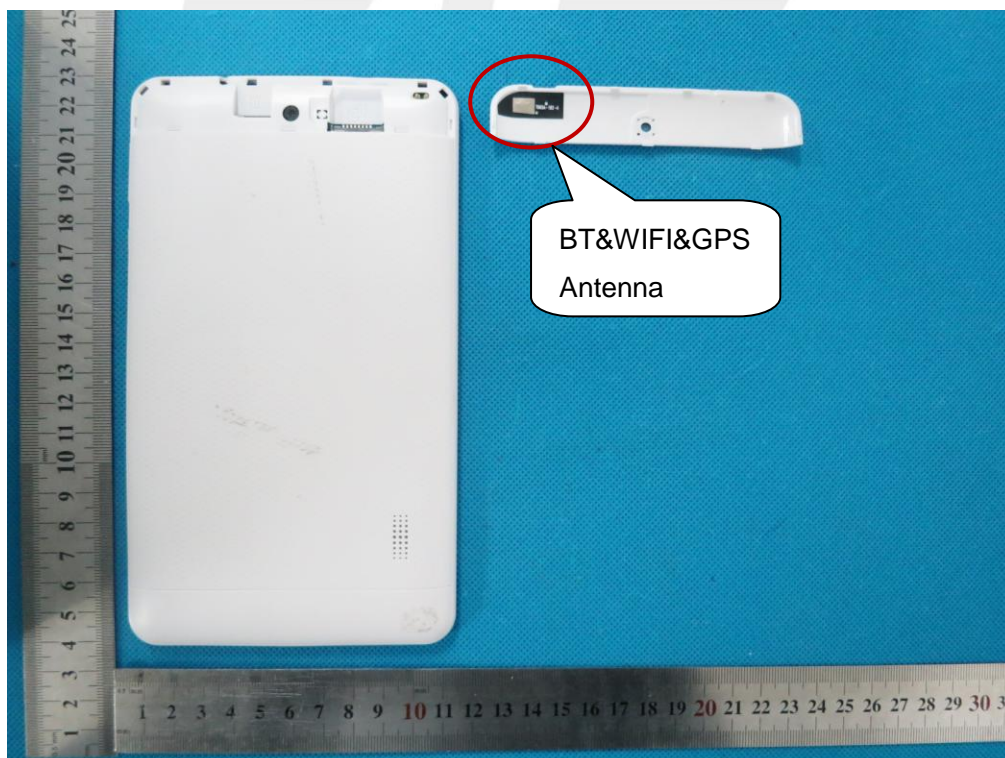
LEFT VIEW OF EUT



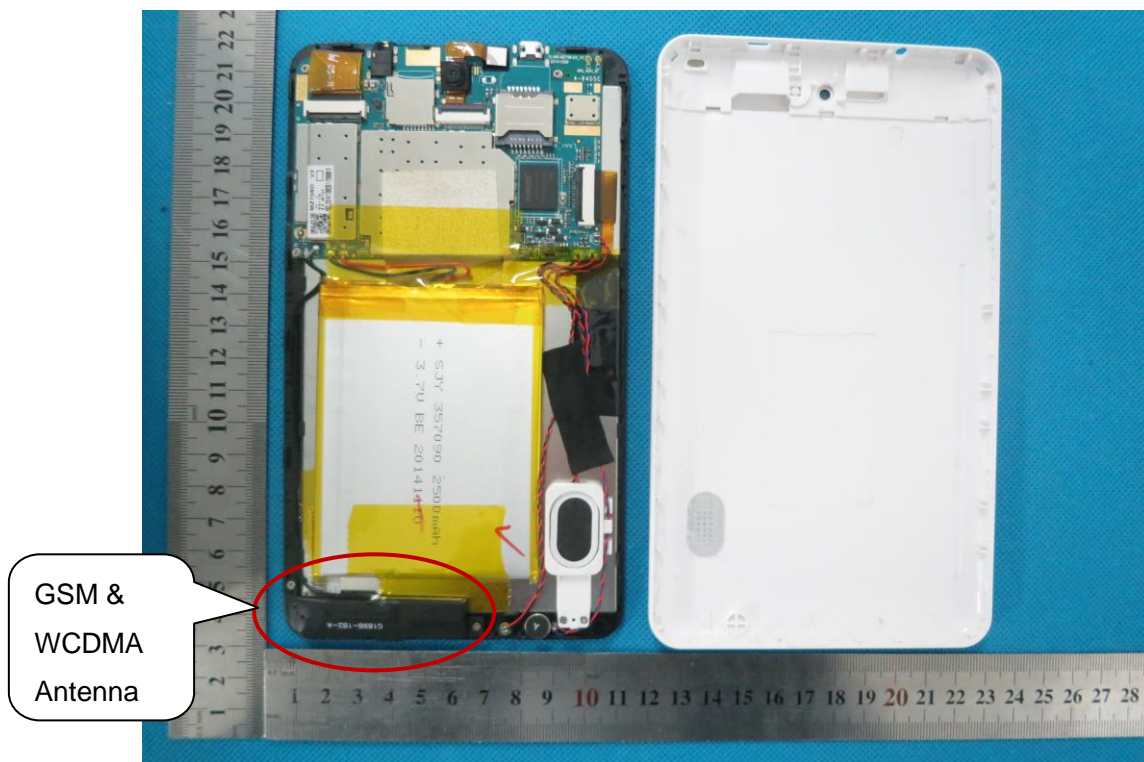
RIGHT VIEW OF EUT



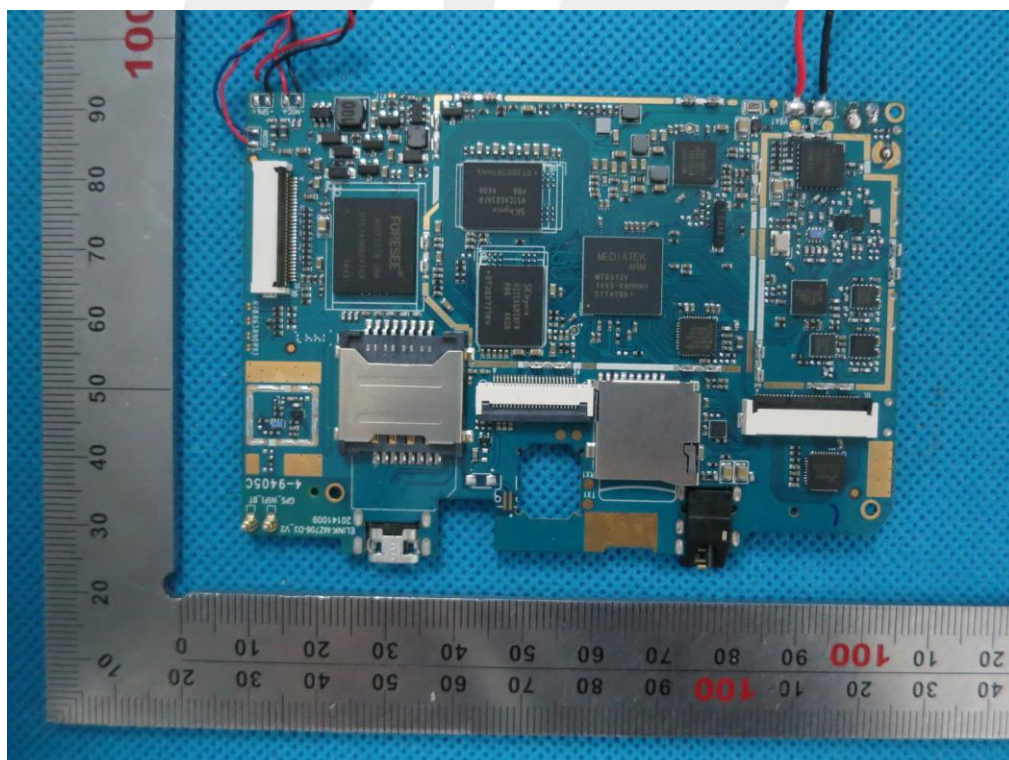
OPEN VIEW OF EUT-1



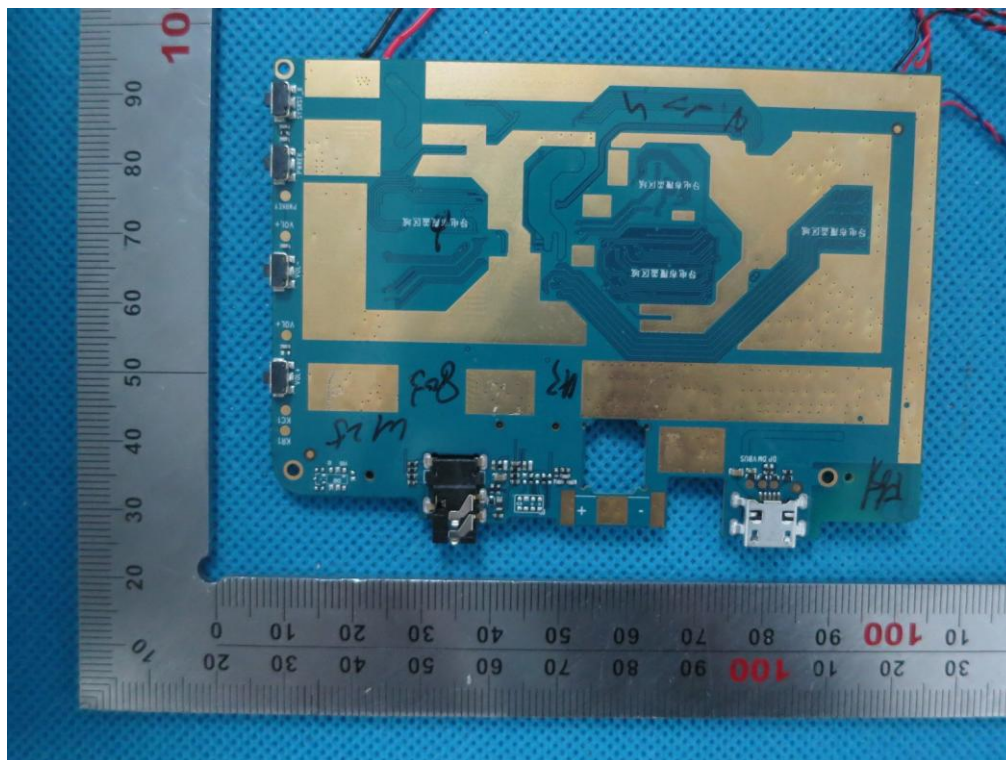
OPEN VIEW OF EUT-2



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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