FCC Test Report

Report No.: AGC05465160701FE04

FCC ID	:	YH57DTB44
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Tablet PC
BRAND NAME	:	Hipstreet
MODEL NAME	:	7DTB44
CLIENT	:	Kobian Canada INC.
DATE OF ISSUE	:	Aug. 04, 2016
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15.247 KDB 558074 v03r05
REPORT VERSION	:	V1.0



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 04, 2016	Valid	Original Report

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Applicant	Kobian Canada INC.		
Address	560 Denison Street, Unit 5, Markham, Ontario, L3R 2M8, Canada		
Manufacturer	Kobian Canada INC.		
Address	560 Denison Street, Unit 5, Markham, Ontario, L3R 2M8, Canada		
Product Designation	Tablet PC		
Brand Name	Hipstreet		
Test Model	7DTB44		
Date of test	July 25, 2016~Aug. 02, 2016		
Deviation	None		
Condition of Test Sample	Normal		
Report Template	AGCRT-US-BGN/RF		

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Vota Zhang Tested By Dota Zhang(Zhang Jianfeng) Aug. 04, 2016 BONG xie **Reviewed By** Aug. 04, 2016 Bart Xie(Xie Xiaobin) Solya 2h Approved By Solger Zhang(Zhang Hongyi) Aug. 04, 2016 Authorized Officer

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 EOT is described as following			
Operation Frequency	2.412 GHz~2.462GHz		
Output Bower	IEEE 802.11b:9.78dBm; IEEE 802.11g:8.28dBm;		
Output Power	IEEE 802.11n(20):.8.02dBm; IEEE 802.11n(40):6.86dBm		
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)		
Number of channels	11		
Hardware Version	EM_T8370_V6.1		
Software Version	Android 5.1		
Antenna Designation	Integrated Antenna		
Antenna Gain	1.5dBi		
Power Supply	DC3.7V by Built-in Li-ion Battery		

A major technical description of EUT is described as following

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency		
	1	2412 MHZ		
	2	2417 MHZ		
	3	2422 MHZ		
	4	2427 MHZ		
	5	2432 MHZ		
2400~2483.5MHZ	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

MCS Index	Nss	Modulation	R	NBPSC	NCBPS NDBPS		BPS	rate(N	ata Mbps) nsGl	
					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

2.3. IEEE 802.11N MODULATION SCHEME

Symbol Explanation		
NSS	Number of spatial streams	
R	Code rate	
NBPSC	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: YH57DTB44** 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 C63.10 (2013). 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 v03r05.

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			
Transm Transm Transm	Note: Transmit by 802.11b with Date rate (1/2/5.5/11) Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54) Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65) Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)			

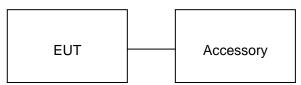
Note:

- 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	Remark
1	Tablet PC	7DTB44	YH57DTB44	EUT
2	Battery	N/A	N/A	Accessory
3	Adapter	JK050200-S04USA	DC5V 2A	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	Dongguan Precise Testing Service Co., Ltd.				
Location	Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,				
FCC Registration No.	371540				
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013.				

ALL TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

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

FOR RADIATED EMISSION TEST (1GHZ ABOVE)

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

Horn Ant (18G-40GH	lz) Schwarzbee	ck	BBHA 9170)	9170-181		June 5, 2	016	June 4, 2017
Power Probe	R&S		NRP-Z23		100323		July 24,2	016	July 23,2017
RF attenuator	N/A		RFA20db		68		N/A		N/A
	C	onduc	cted Emission	Те	st Site				
Name of Equipment	Manufacturer	Мо	del Number	Se	rial Number	Са	Last libration	Due	e Calibration
EMI Test Receiver	Rohde & Schwarz		ESCI		101417	Jul	y 3, 2016	J	uly 2, 2017
Artificial Mains Network	Narda		L2-16B	00	00WX31025	Jul	y 7, 2016	J	uly 6, 2017
Artificial Mains Network (AUX)	Narda		L2-16B	00	00WX31026	Jul	y 7, 2016	J	uly 6, 2017
RF Cable	SCHWARZBECK	ŀ	AK9515E		96222	Jul	y 3, 2016	J	uly 2, 2017
Shielded Room	CHENGYU		843		PTS-002	Jur	ne 5,2016	J	une 4,2017

7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

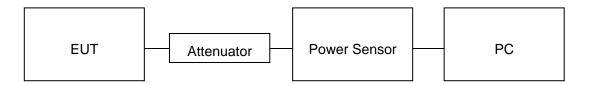
For max average conducted output power test:

- 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 558074v03r05 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	9.78	30	Pass
2.437	9.24	30	Pass
2.462	9.47	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	8.28	30	Pass
2.437	7.89	30	Pass
2.462	8.24	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	8.02	30	Pass
2.437	7.63	30	Pass
2.462	7.96	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	6.86	30	Pass
2.437	6.53	30	Pass
2.452	6.76	30	Pass

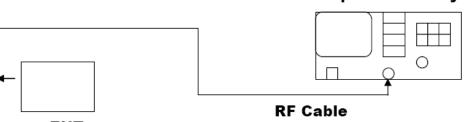
8. 6DB BANDWIDTH

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 \ge 3×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)

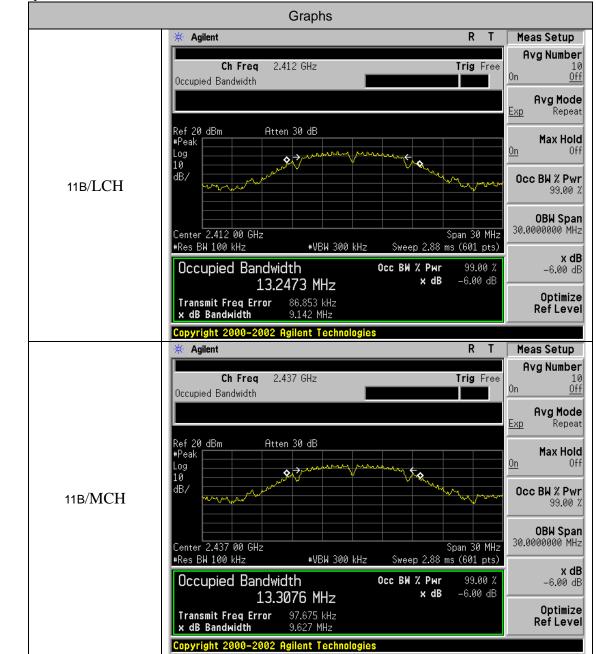


EUT

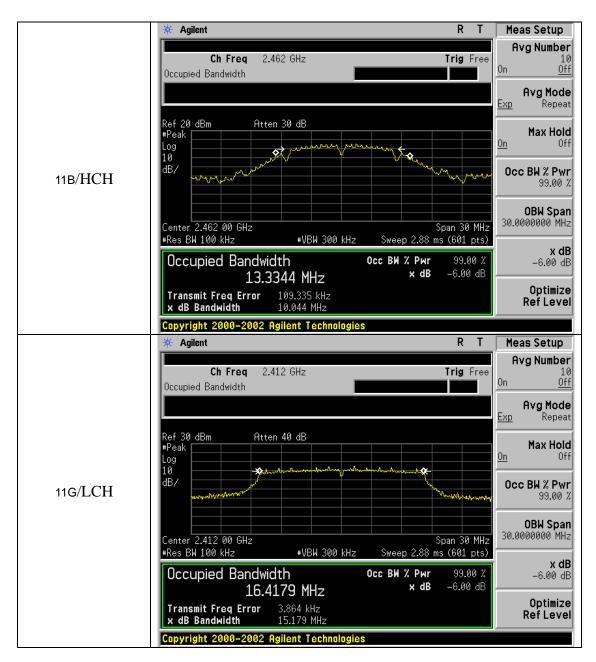
8.3. LIMITS AND MEASUREMENT RESULTS

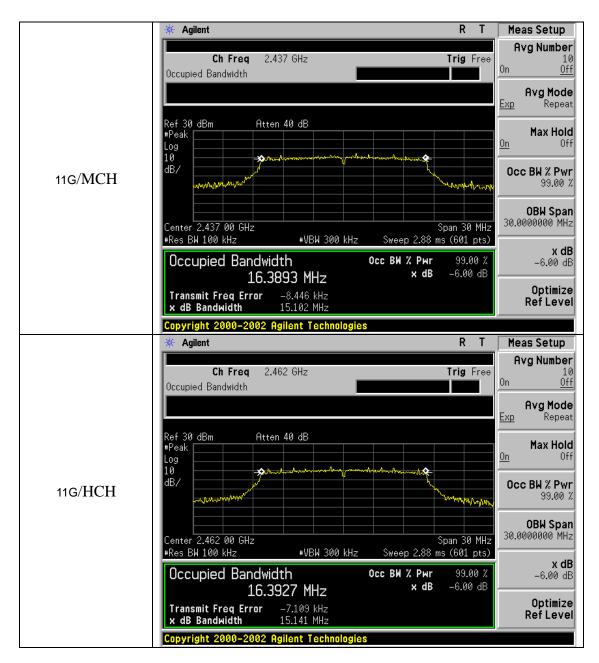
Mode	Channel	6dB Bandwidth [MHz]	OBW [MHz]	Verdict
11B	LCH	9.142	13.2473	PASS
11B	MCH	9.627	13.3076	PASS
11B	HCH	10.044	13.3344	PASS
11G	LCH	15.179	16.4179	PASS
11G	MCH	15.102	16.3893	PASS
11G	HCH	15.141	16.3927	PASS
11N20SISO	LCH	16.129	17.5637	PASS
11N20SISO	MCH	15.070	17.5462	PASS
11N20SISO	HCH	14.454	17.5328	PASS
11N40SISO	LCH	35.339	35.8329	PASS
11N40SISO	MCH	35.214	35.8339	PASS
11N40SISO	HCH	35.349	35.7985	PASS

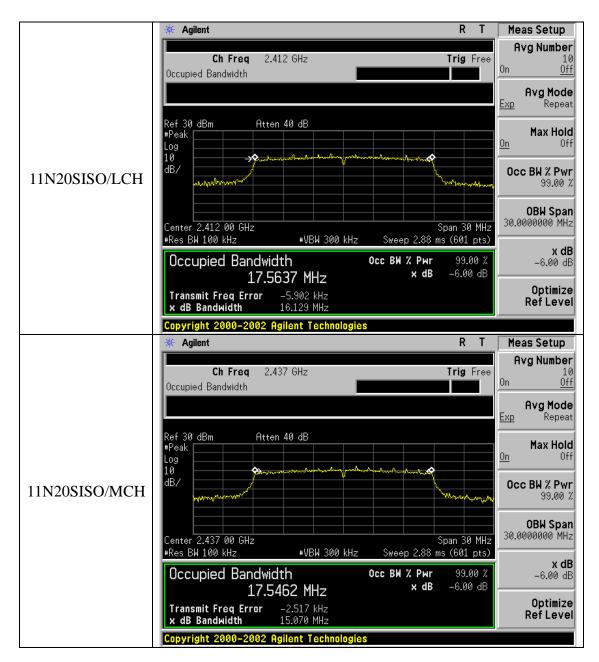
Spectrum Analyzer

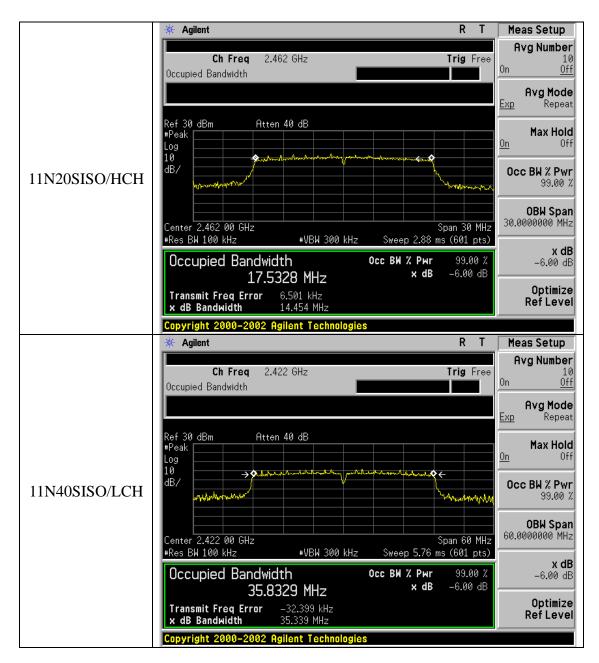


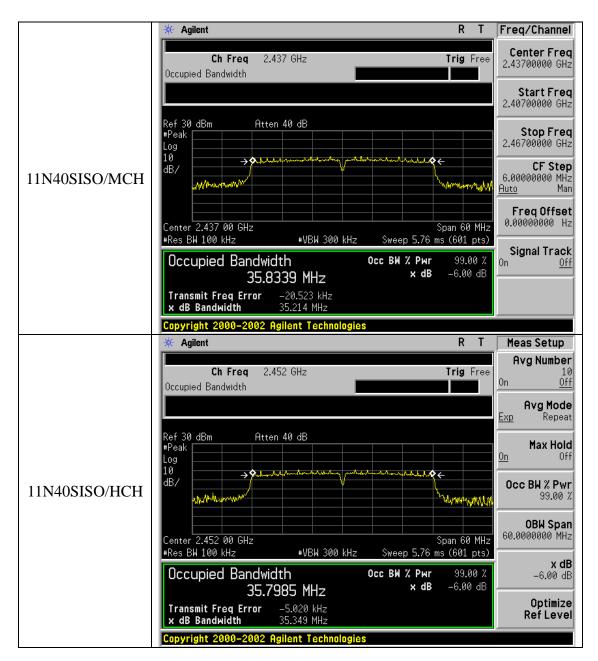
Test Graph











9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set 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

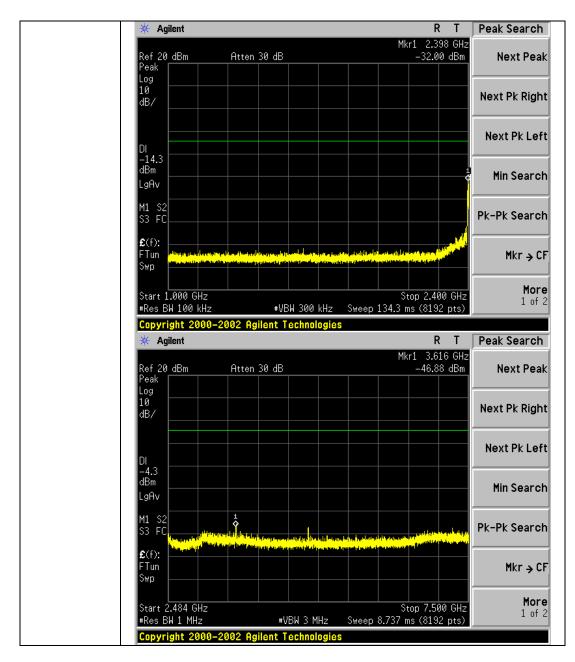
The same as described in section 6.

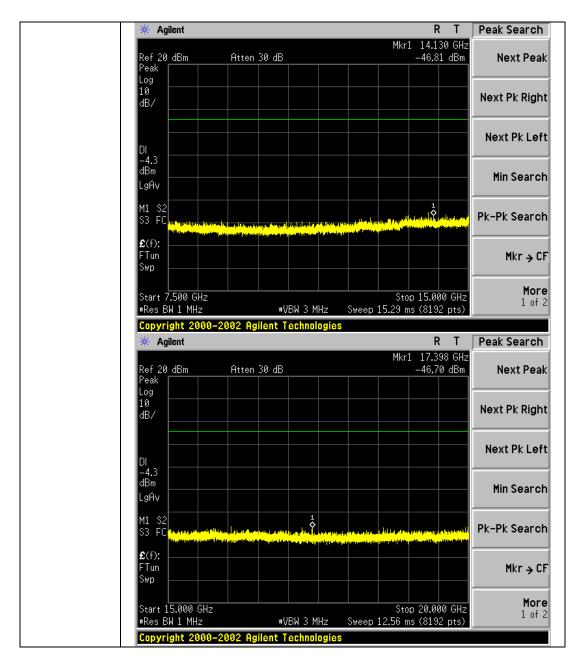
9.4. LIMITS AND MEASUREMENT RESULT

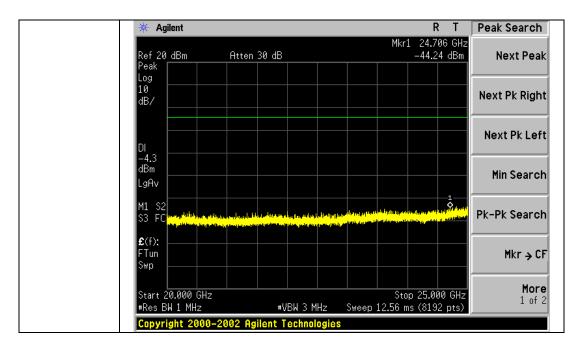
LIMITS AND MEASUREMENT RESULT					
Appliechie Limite	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit				
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS			
intentional radiator is operating, the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

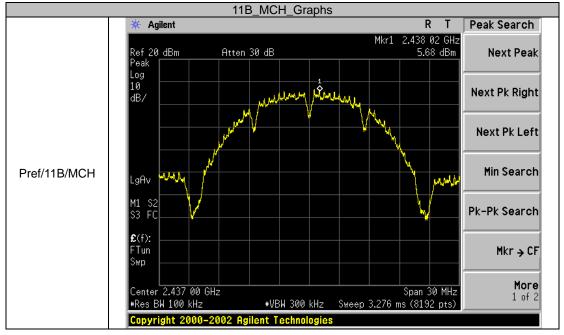
11B LCH Graphs	
* Agilent	R T Peak Search
Ref 20 dBm Atten 30 dB Peak Log	Mkr1 2.413 99 GHz 5.74 dBm Next Peal
	Next Pk Lef
LgAv MLALA	Min Search
M1 S2 S3 FC	Pk-Pk Search
£(f): FTun Swp	Mkr → C
	Span 30 MHz More p 3.276 ms (8192 pts) 1 of 3
* Agilent	R T Peak Search
Ref 20 dBm Atten 30 dB Peak	Mkr1 649.4 MHz -62.35 dBm Next Peal
10 dB/	Next Pk Righ
	Next Pk Lef
-14.3 dBm LgAv	Min Search
M1 \$2 \$3 FC	Pk-Pk Search
£(f): FTun Swp	National Angel Ang
	Ref 20 dBm Atten 30 dB Peak Image: constraint of the state of the

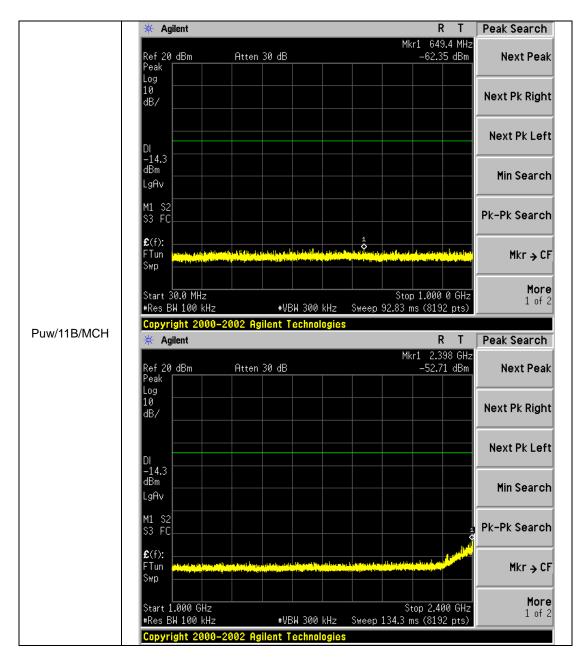
Test Graph

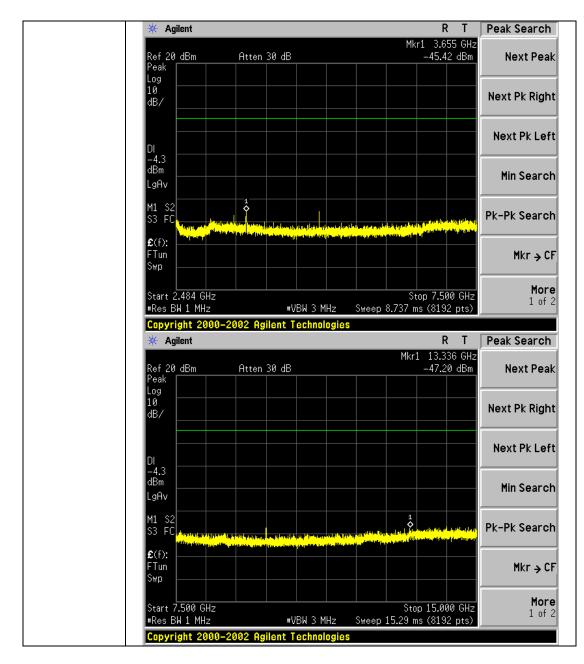


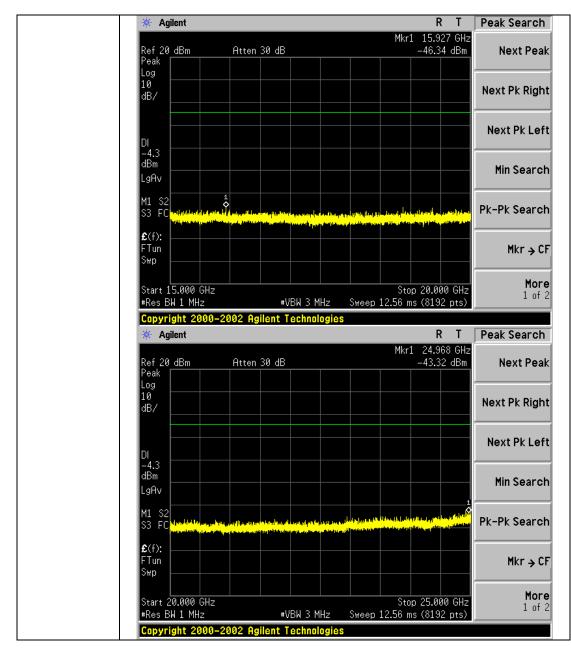




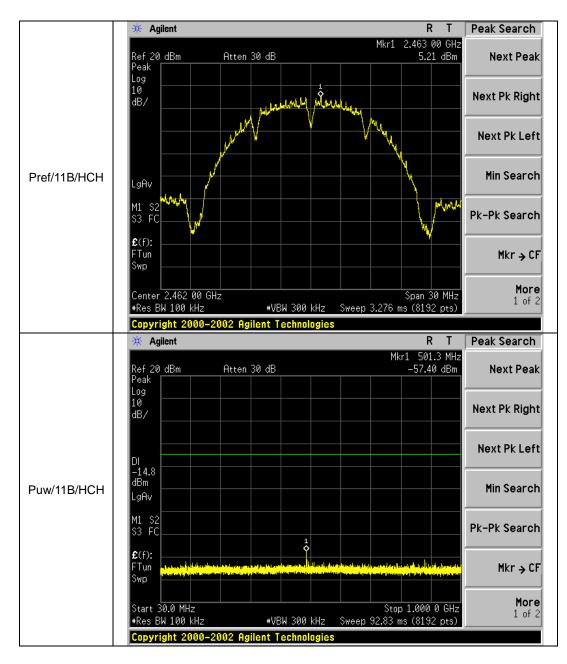


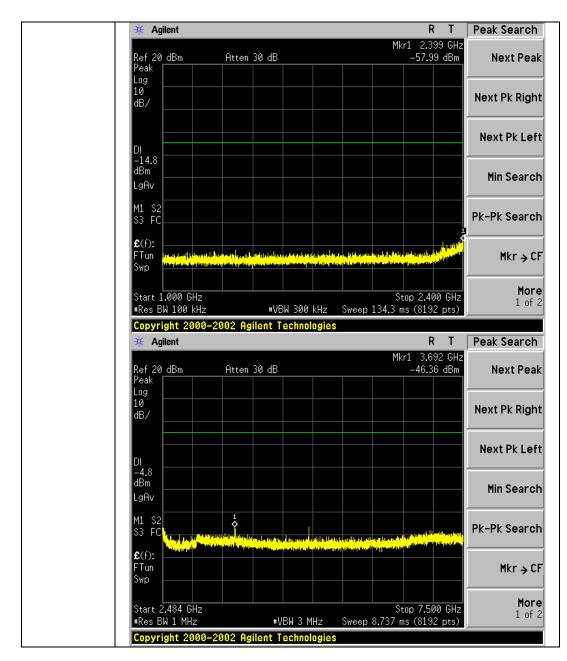


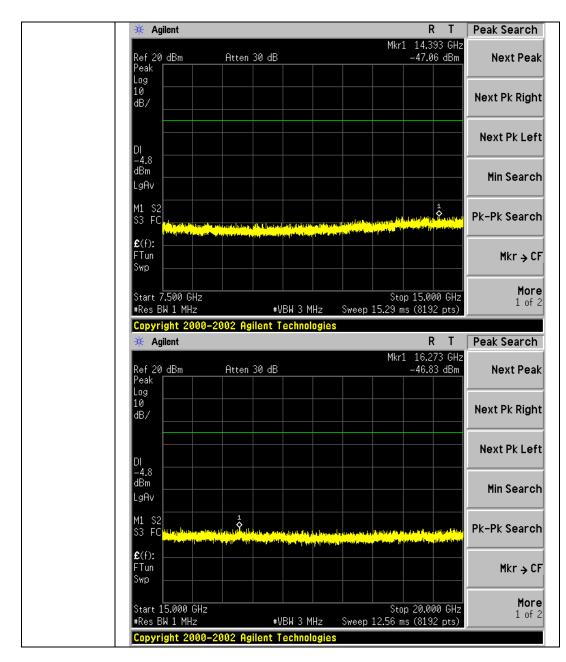


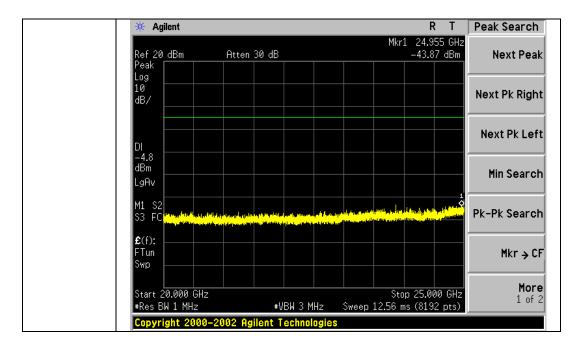


11B_HCH_Graphs

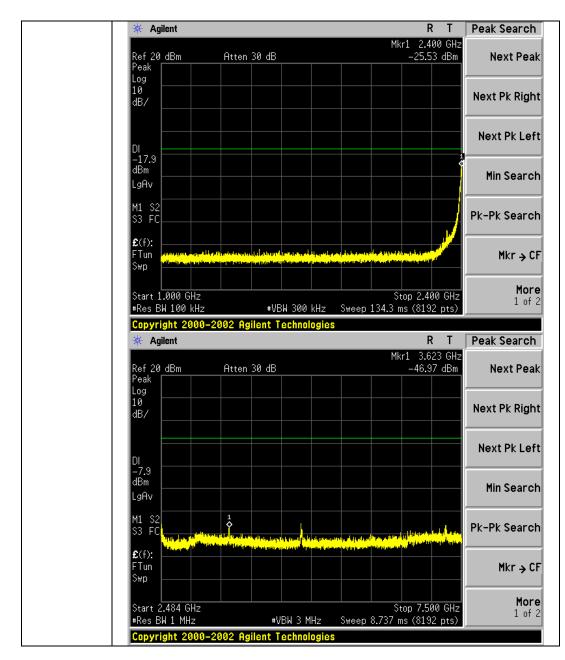




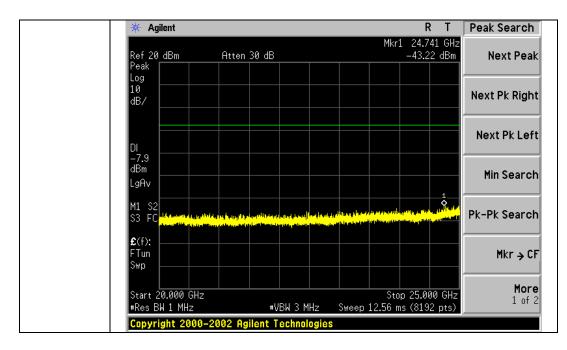


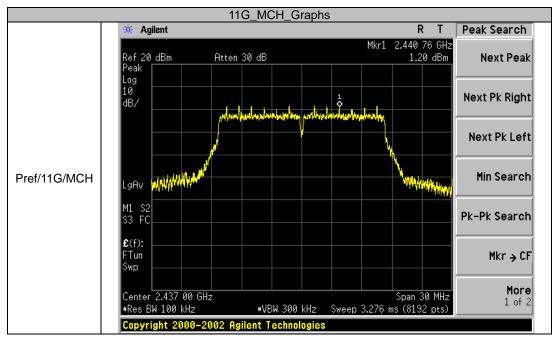


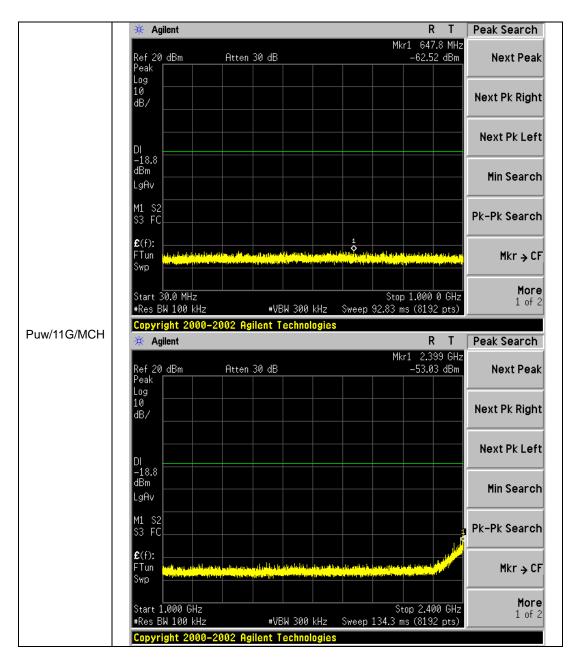
	11G_LCH_Graphs	
	* Agilent R T	Peak Search
	Mkr1 2.416 97 GH: Ref 20 dBm Atten 30 dB 2.11 dBm Peak	
	Log 10 dB/	Next Pk Right
		Next Pk Left
Pref/11G/LCH		Min Search
	M1 S2 S3 FC	Pk-Pk Search
	£ (f): FTun Swp	Mkr → CF
	Center 2.412 00 GHz Span 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.276 ms (8192 pts)	
	Copyright 2000-2002 Agilent Technologies	De als Cassach
	※ Agilent R T Mkr1 452.2 MH: Ref 20 dBm Atten 30 dB Peak -61.15 dBm	
	Log 10 dB/	Next Pk Right
	DI -17.9	Next Pk Left
Puw/11G/LCH	dBm	Min Search
	M1 S2 S3 FC	Pk-Pk Search
	E(f): FTun Swp	Mkr → CF
	Start 30.0 MHz Stop 1.000 0 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.83 ms (8192 pts)	
	Copyright 2000-2002 Agilent Technologies	

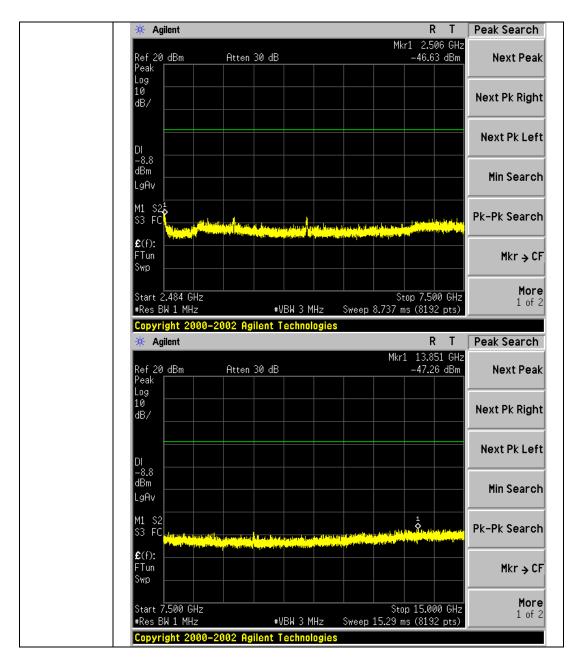


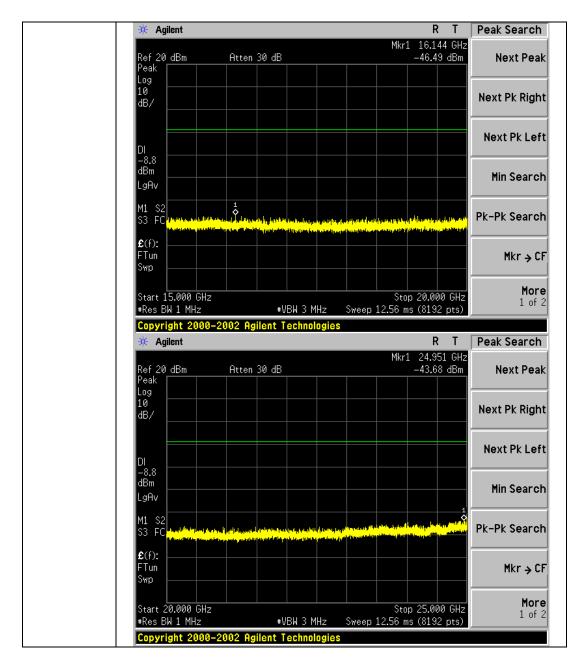
🔆 Agilent							R	! T	Peak Search
						Mk	r1 9.6	50 GH:	2
Ref 20 dBm	F	Atten 30	dB					5 dBm	
'eak									1
g									
0 B/									Next Pk Righ
/									
									Next Pk Lef
)									
-7.9									
dBm									Min Searc
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* Agilent Ref 20 dBm Peak Log 10				logies		Mkr:	1 15.7	25 GHz	Next Pea
* Agilent Ref 20 dBm Peak Log 10				logies		Mkr:	1 15.7	25 GHz	Next Pea
<mark>₩ Agilent</mark> Ref 20 dBm Peak Log 10				logies		Mkr:	1 15.7	25 GHz	Next Pea
Agilent Ref 20 dBm Peak Log 10 dB/ DI				logies		Mkr:	1 15.7	25 GHz	Next Pea
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Agilent Ref 20 dBm Peak Log 10 dB/ DI -7.9 dBm						Mkr:	1 15.7	25 GHz	Next Pea Next Pk Righ Next Pk Lef
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Agilent Ref 20 dBm Yeak .og .og .l0 JB/ .gq .gqv	F F				Sweep	sette aller	1 15.7 -46.5	25 GH: 6 dBm	Next Pea Next Pk Righ Next Pk Let Min Searc Pk-Pk Searc Mkr → C









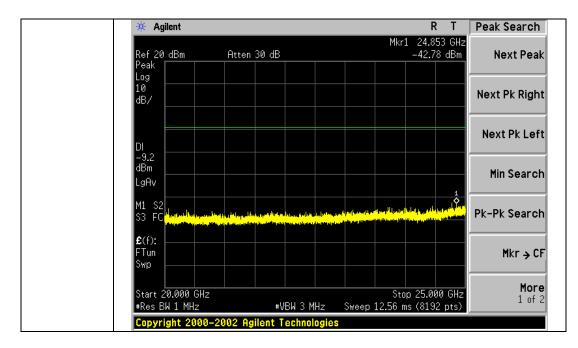


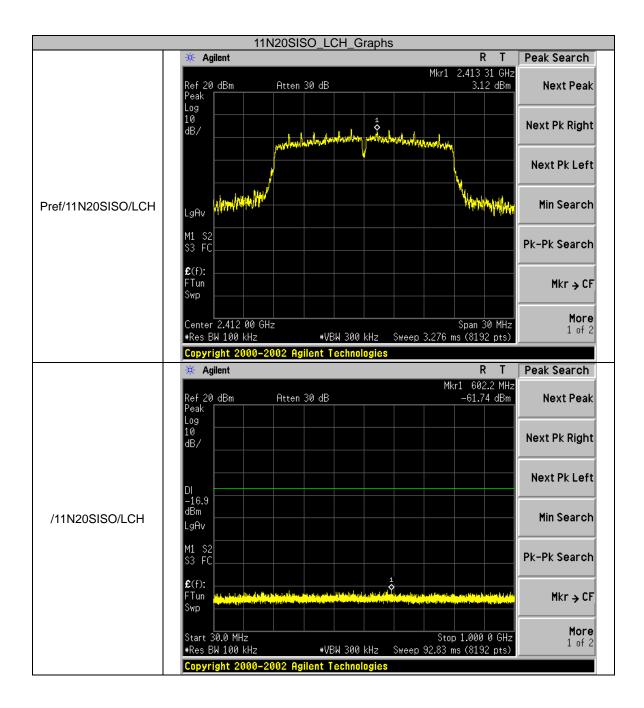
11G_HCH_Graphs

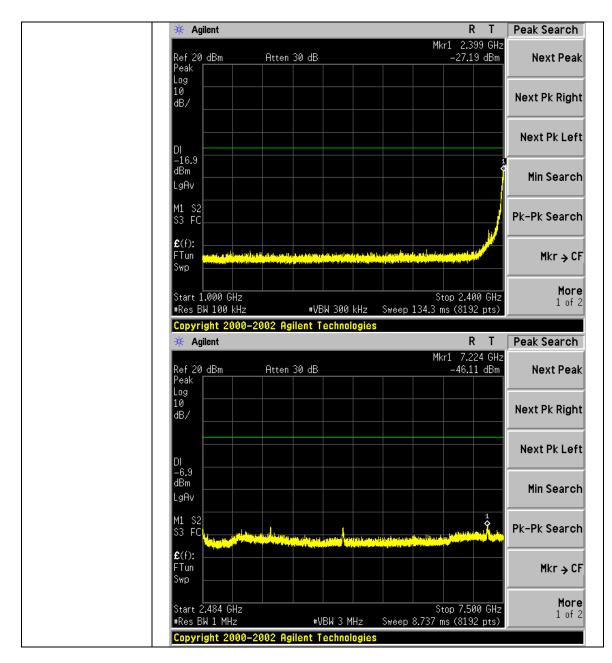
	₩ Agilent	R T Freq/Channel
	Ref 20 dBm Atten 30 dB Peak	.466 96 GHz 0.75 dBm 2.46200000 GHz
	Log 10 dB/ 	Start Freq 2.44700000 GHz
		Stop Freq 2.47700000 GHz
Pref/11G/HCH		CF Step 3.00000000 MHz <u>Auto</u> Man
	M1 S2 S3 FC	Freq Offset 0.00000000 Hz
	€(f): FTun Swp	Signal Track On <u>Off</u>
	Center 2.462 00 GHz S +Res BW 100 kHz +VBW 300 kHz Sweep 3.276 ms	ipan 30 MHz (8192 pts)
	Copyright 2000–2002 Agilent Technologies	
	* Agilent	R T Peak Search
	Ref 20 dBm Atten 30 dB -	. 177.2 MHz -61.92 dBm Next Peak
	Log 10 dB/	Next Pk Right
	DI	Next Pk Left
Puw/11G/HCH	-19.2 dBm LgAv	Min Search
	M1 S2 S3 FC	Pk-Pk Search
	£(f): FTun Swp	Menter and the Mkr → CF
	Start 30.0 MHz Stop 1 #Res BW 100 kHz #VBW 300 kHz Sweep 92.83 ms	1.000 0 GHz 1 of 2 (8192 pts)
	Copyright 2000–2002 Agilent Technologies	

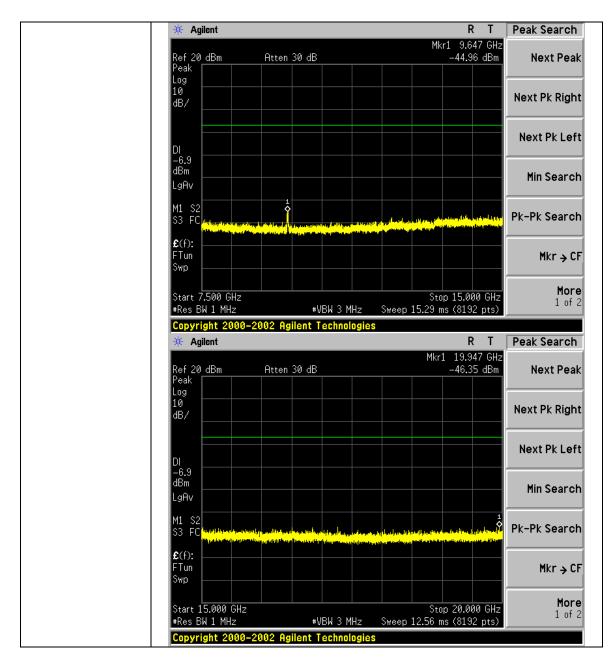
💥 Agilent			RT	Peak Search
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og Ø				
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🔆 Agilent	0-2002 Agnent Teci	inologies	RT	Peak Search
🔆 Agilent		inologies	Mkr1 2.485 GHz	2
₩ Agilent Ref 20 dBm	Atten 30 dB	nnologies		2
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<mark>₩ Agilent</mark> Ref 20 dBm Peak Log 10		INDIOGIES	Mkr1 2.485 GHz	Next Pea
* Agilent Ref 20 dBm Peak Log 10			Mkr1 2.485 GHz	Next Pea
* Agilent Ref 20 dBm Peak Log 10			Mkr1 2.485 GHz	Next Pea
★ Agilent Ref 20 dBm Peak Log			Mkr1 2.485 GHz	Next Pea
Agilent Ref 20 dBm Peak Log 10 dB/ DI			Mkr1 2.485 GHz	Next Pea Next Pk Righ
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Agilent Ref 20 dBm Peak Log 10 dB/			Mkr1 2.485 GHz	Next Pea Next Pk Righ Next Pk Lef
★ Agilent Ref 20 dBm Peak Log 10 dB/ -9.2 dBm LgAv M1 S2			Mkr1 2.485 GHz	Next Pea Next Pk Righ Next Pk Let Min Searc
Agilent Ref 20 dBm Peak Log 10 dB/ DI -9.2 dBm LgAv M1 \$22 20 50			Mkr1 2.485 GHz -29.75 dBm	Next Pea Next Pk Righ Next Pk Lef Min Searc
Agilent Ref 20 dBm Peak Log 10 dB/ DI -9.2 dBm LgAv M1 S2 S3 FC Lynest	Atten 30 dB		Mkr1 2.485 GHz -29.75 dBm	Next Pea Next Pk Righ Next Pk Lef Min Searc
Agilent Ref 20 dBm Peak Log 10 dB/ -9.2 dBm -9.2 dBm S3 FC Volument	Atten 30 dB		Mkr1 2.485 GHz -29.75 dBm	Next Pea Next Pk Righ Next Pk Lef Min Searc Pk-Pk Searc
Agilent Ref 20 dBm Peak Log 10 dB/ DI -9.2 dBm LgAv M1 S2 S3 FC LgAv £(f):	Atten 30 dB		Mkr1 2.485 GHz -29.75 dBm	Next Pea Next Pk Righ Next Pk Lef Min Searc Pk-Pk Searc
Agilent Ref 20 dBm Peak Log 10 dB/ DI DI DI DI BBm LgAv M1 \$3 FC Interpretent £(f): FTun Swp	Atten 30 dB		Mkr1 2.485 GHz -29.75 dBm	Next Pea Next Pk Righ Next Pk Lef Min Searc Pk-Pk Searc Mkr → C
Agilent Ref 20 dBm Peak Log 10 dB/ -9,2 dBm LgAv M1 \$2 S3 FC LgAv £(f): FTun Swp Start 2.484 GHz	Atten 30 dB		Mkr1 2.485 GHz -29.75 dBm	Next Pea Next Pk Righ Next Pk Lef Min Searc Pk-Pk Searc Mkr → C
Agilent Ref 20 dBm reak .og .og .0 .BB/	Atten 30 dB	A MHz Sweep 8	Mkr1 2.485 GHz -29.75 dBm	Next Pea Next Pk Righ Next Pk Lef Min Searc Pk-Pk Searc Mkr → C

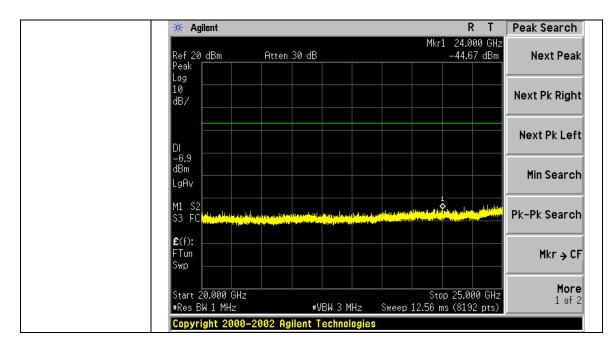
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	1 13.999 GHz	Mkr:				
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Pk-Pk Searc		الأسليلان وروال ويخاصان	and a databatic the start of	a design of the second s	a bilitare, ut data a	S3 FC <mark>,</mark>
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nki 🤟						Swp –
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1 01	ns (8192 pts)	Sweep 15.29 m	3 MH 2	#\	1 MH 2	
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					1 ht 2000-2 1 ent	Copyrig * Agil Ref 20 o
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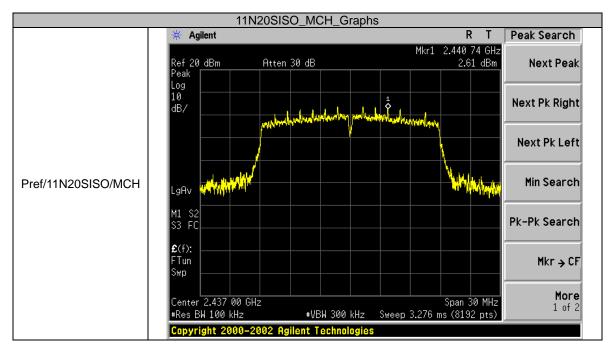


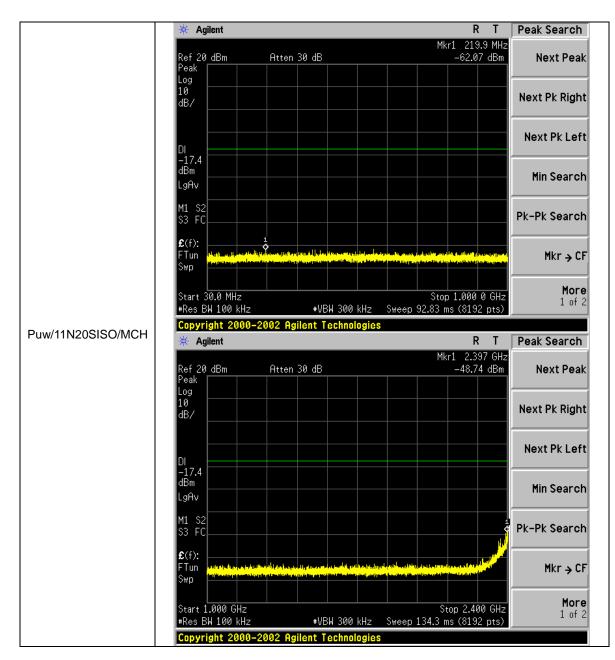


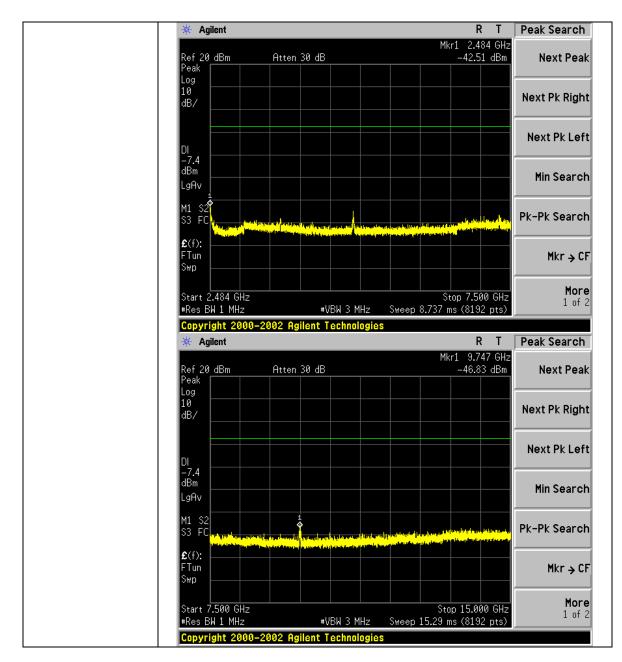


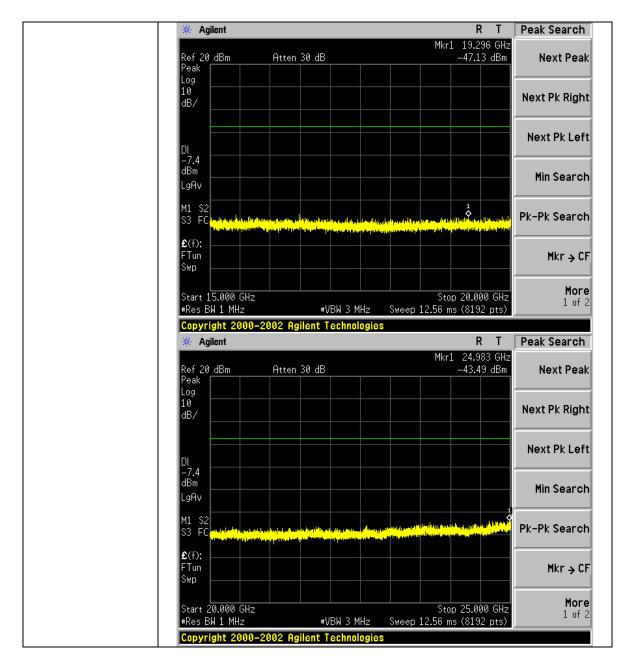




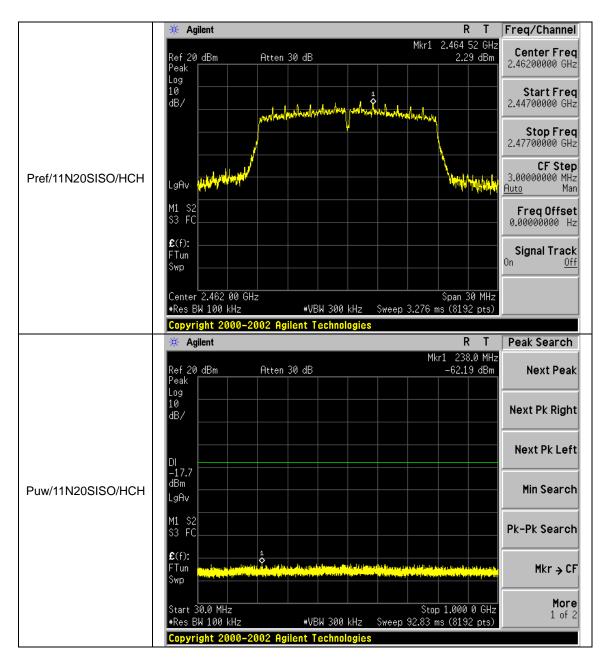


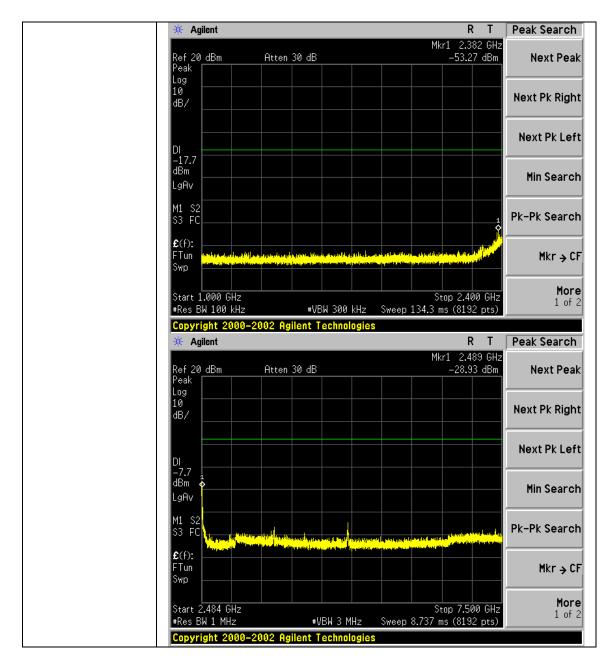


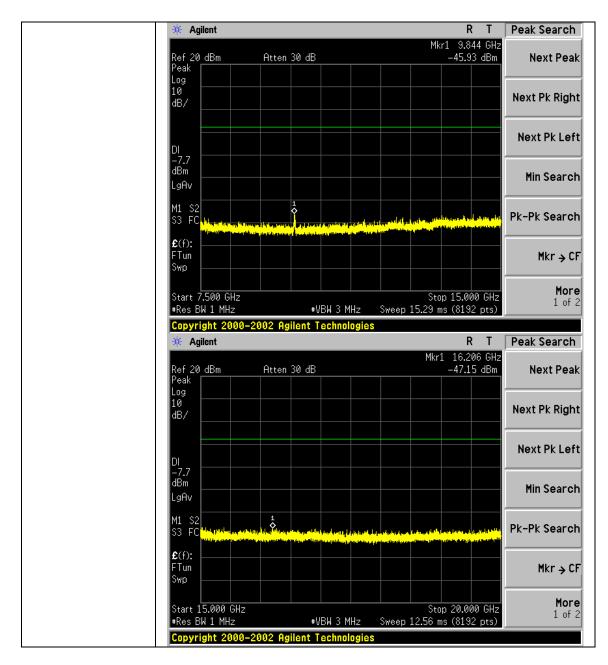


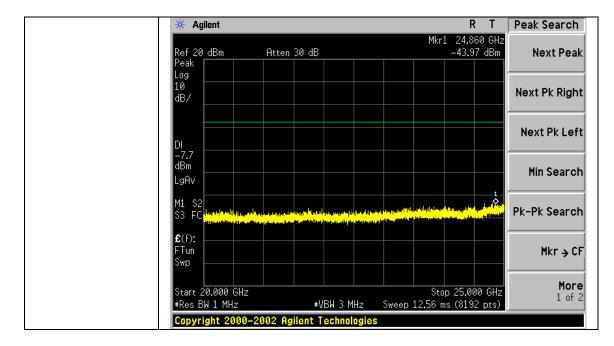


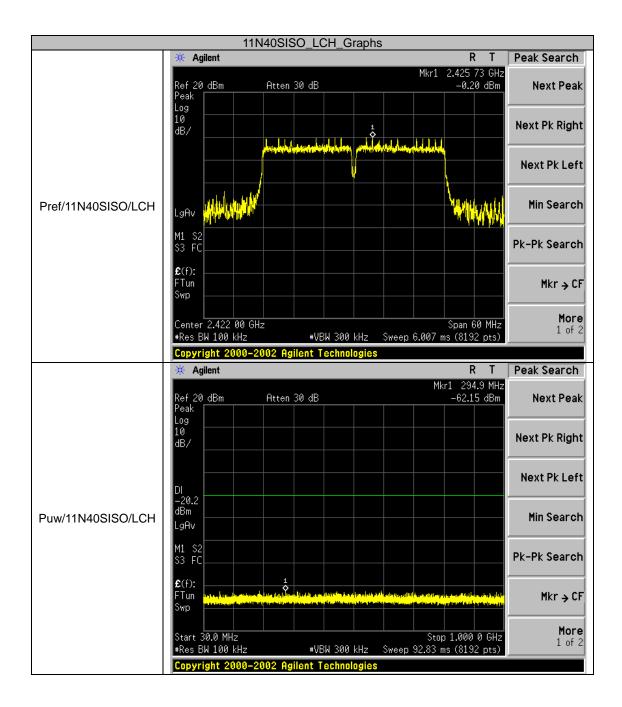
11N20SISO_HCH_Graphs

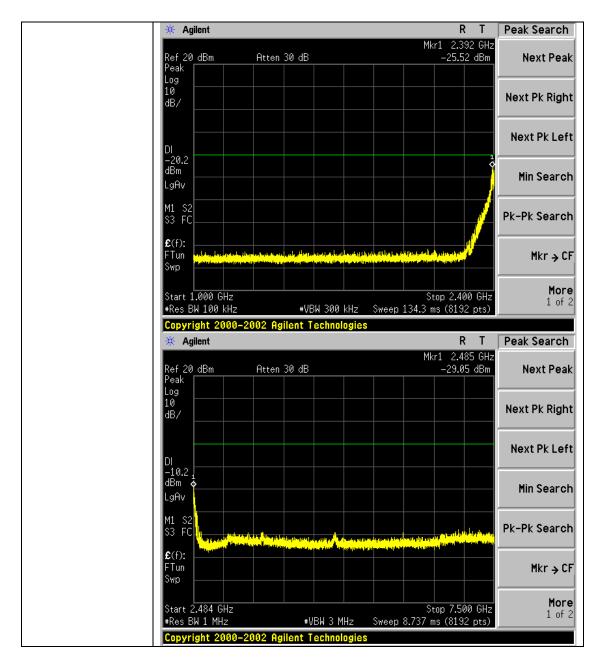


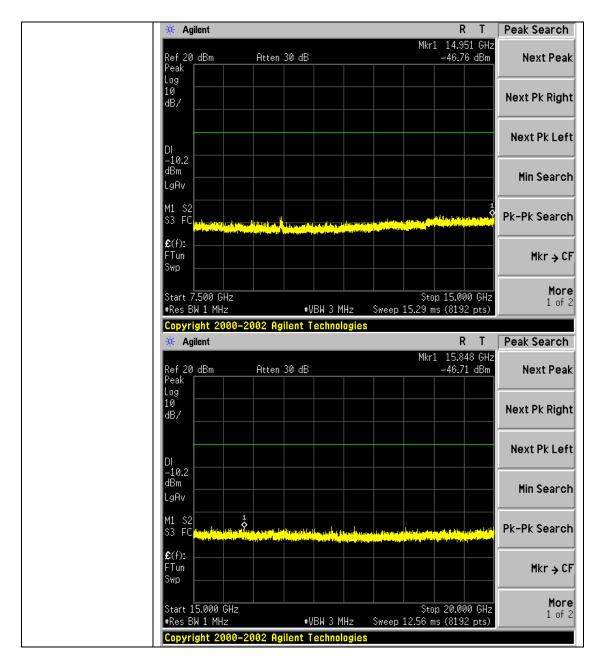


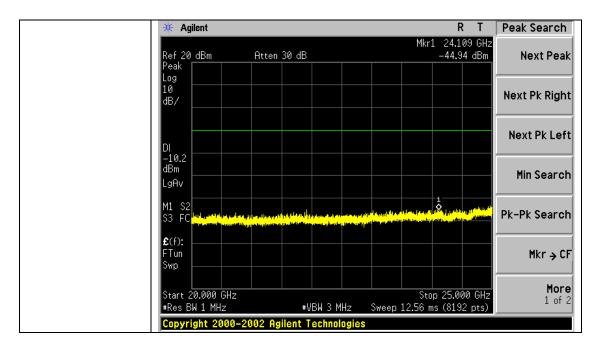


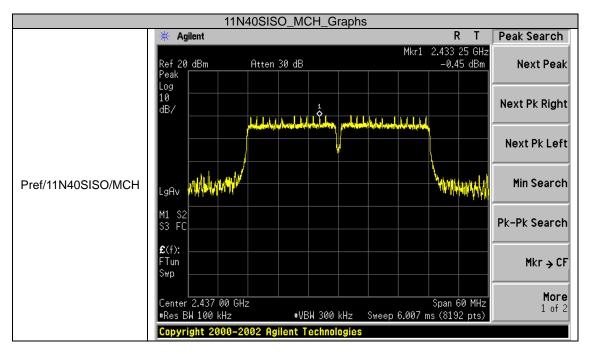




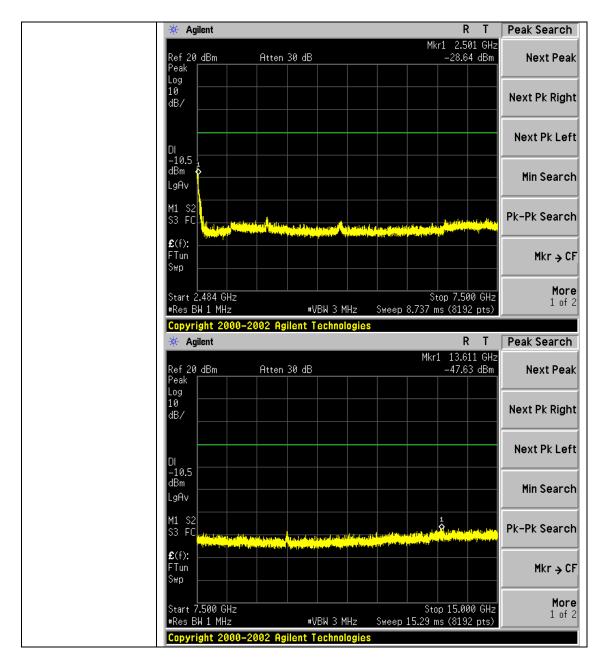


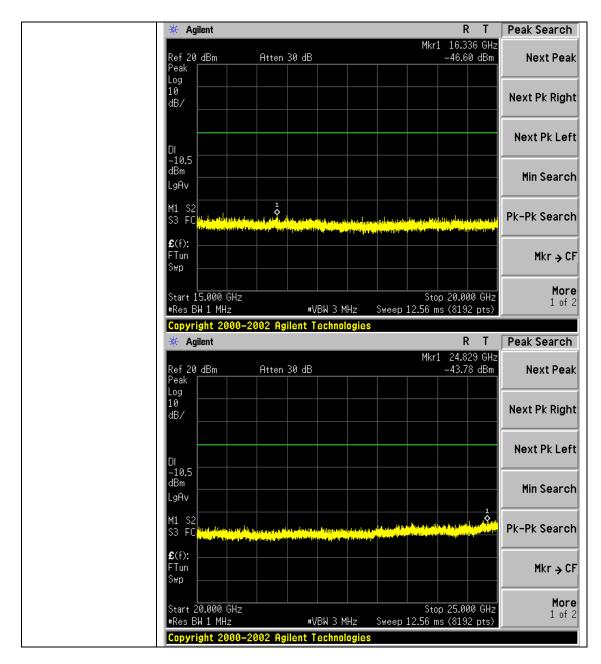






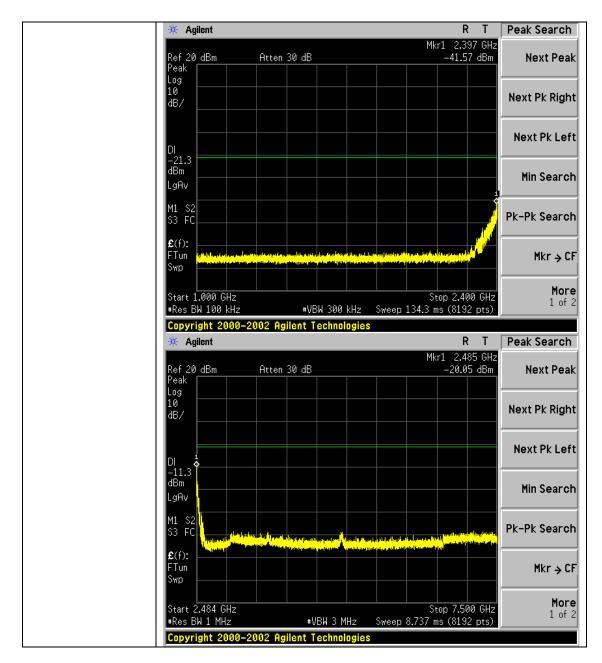
	🔆 Agilent			RT	Peak Search
	Ref 20 dBm Peak	Atten 30 dB		Mkr1 922.0 MHz -62.23 dBm	
	Log 10 dB/				Next Pk Right
	DI				Next Pk Left
	dBm				Min Search
	M1 S2 S3 FC				Pk-Pk Search
	£(f): FTun Swp	del en en la política la pomena política la demanda de Marco francés e política la comunicación de pública en en			Mkr → CF
	Start 30.0 MHz #Res BW 100 kHz			Stop 1.000 0 GHz 2.83 ms (8192 pts)	More 1 of 2
Puw/11N40SISO/MCH	Copyright 2000-	-2002 Agilent Techno	logies	RT	Peak Search
	Ref 20 dBm	Atten 30 dB		Mkr1 2.399 GHz -33.62 dBm	1
	Peak Log				
	10 dB/				Next Pk Right
	DI				Next Pk Left
	dBm LgAv				Min Search
	M1 S2			<u>/</u>	Pk-Pk Search
	\$3 FC				
	€(f): FTun watterstand	Nijeta na prava njevna je kon jezata ji koda na drežan Nijeta na prava na prava njevi jezata na se pravi prava d	ge star ty ze ce lat jes to before to folg to a set a ce la ce la ce se a ce se a ce se a ce se a ce la ce se a to a ce se a ce la ce la ce se a ce se		Mkr → CF
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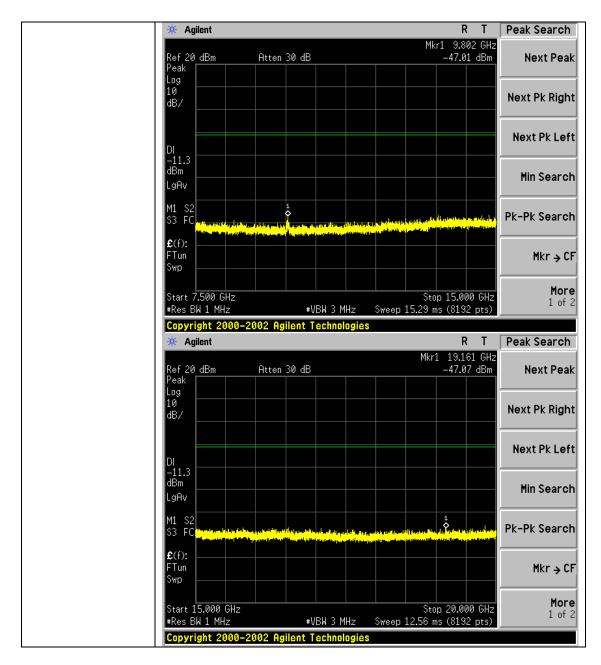


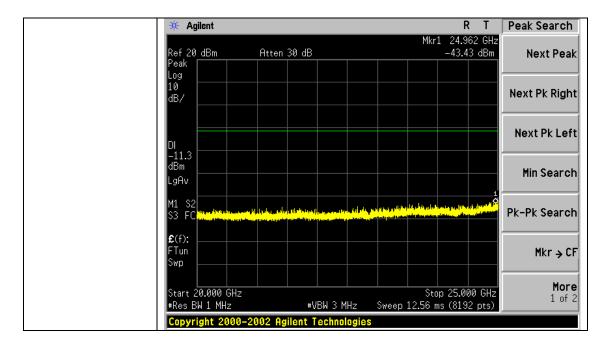


11N40SISO_HCH_Graphs

	🔆 Agilent		RT	Peak Search
	Ref 20 dBm Peak	Atten 30 dB	Mkr1 2.457 00 GHz _1.25 dBm	
	Log 10 dB/	Alphannahahahan milihatan	Analah I h	Next Pk Right
				Next Pk Left
Pref/11N40SISO/HCH	LgAv		har Marcher Marker Marker	Min Search
	M1 S2 S3 FC			Pk-Pk Search
	£(f): FTun Swp			Mkr → CF
	Center 2.452 00 GH #Res BW 100 kHz	#VBW 300 kHz	Span 60 MHz Sweep 5.76 ms (601 pts)	More 1 of 2
	r	002 Agilent Technologies	D 7	
	🔆 Agilent		R T Mkr1 435.0 MHz	Peak Search
	Ref 20 dBm Peak	Atten 30 dB	-62.30 dBm	Next Peak
	Log 10 dB/			Next Pk Right
				Next Pk Left
Puw/11N40SISO/HCH	-21.3 dBm LgAv			Min Search
	M1 S2 S3 FC			Pk-Pk Search
	£(f): FTun Swp		s ly place front long to a first to provide the long to a light from the light from the long to a light from the light from th	Mkr → CF
	Start 30.0 MHz #Res BW 100 kHz	#VBW 300 kHz Swe	Stop 1.000 0 GHz eep 92.83 ms (8192 pts)	More 1 of 2
	Copyright 2000-2	002 Agilent Technologies		







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)

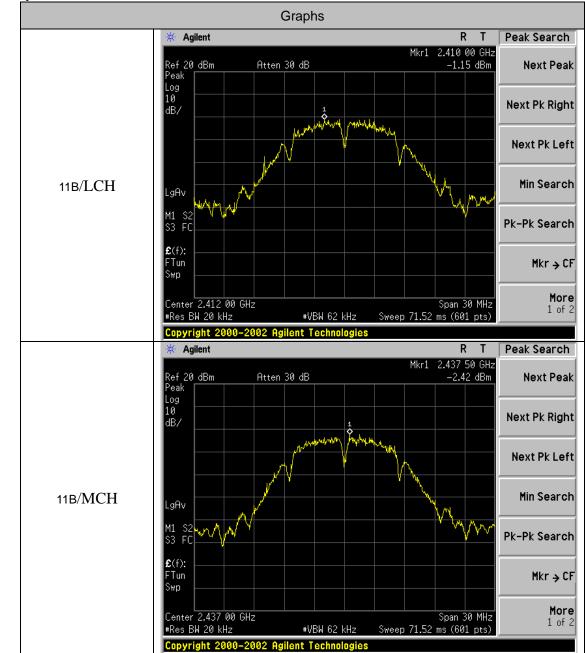
Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

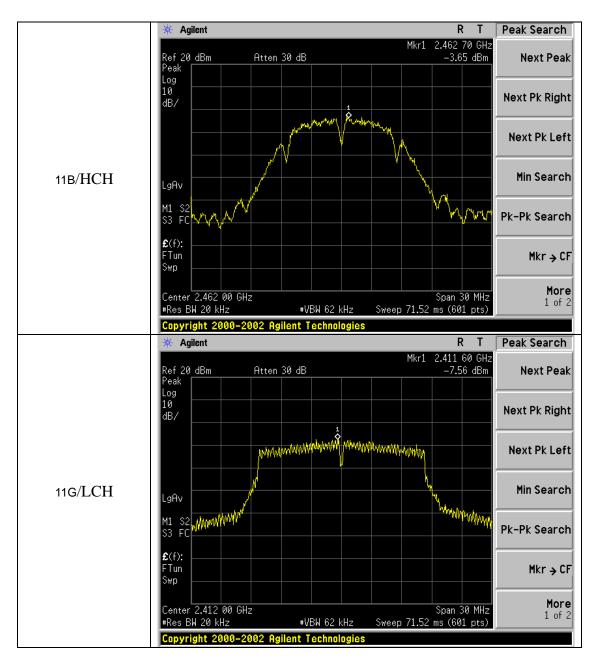
Refer To Section 6.

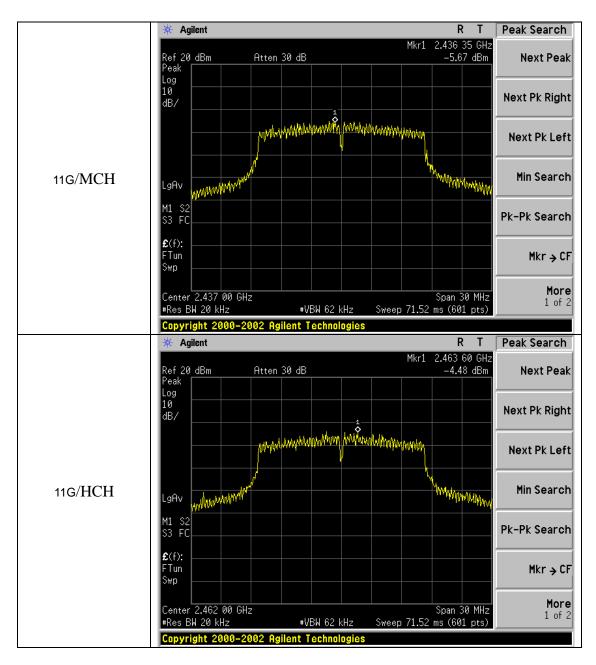
10.4 LIMITS AND MEASUREMENT RESULT

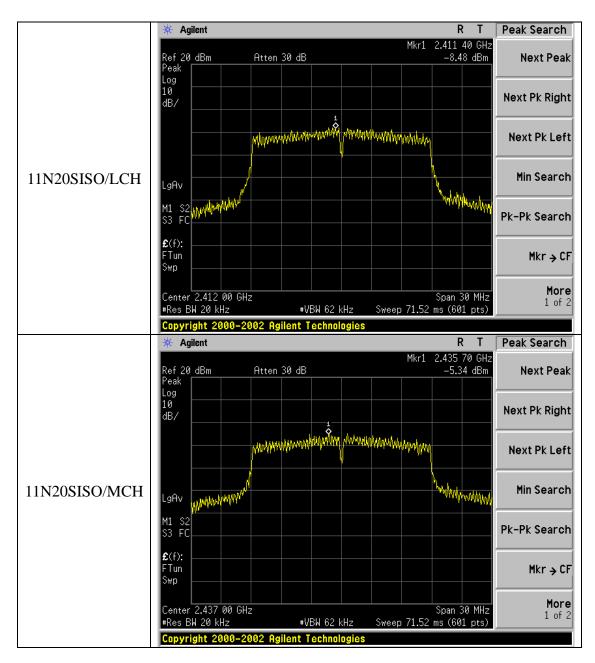
Mode	Channel	Av.PSD [dBm/20kHz]	Limit[dBm/3kHz]	Verdict
11B	LCH	-1.15	8	PASS
11B	MCH	-2.42	8	PASS
11B	HCH	-3.65	8	PASS
11G	LCH	-7.56	8	PASS
11G	MCH	-5.67	8	PASS
11G	HCH	-4.48	8	PASS
11N20SISO	LCH	-8.48	8	PASS
11N20SISO	MCH	-5.34	8	PASS
11N20SISO	HCH	-4.70	8	PASS
11N40SISO	LCH	-8.50	8	PASS
11N40SISO	MCH	-8.55	8	PASS
11N40SISO	HCH	-7.40	8	PASS

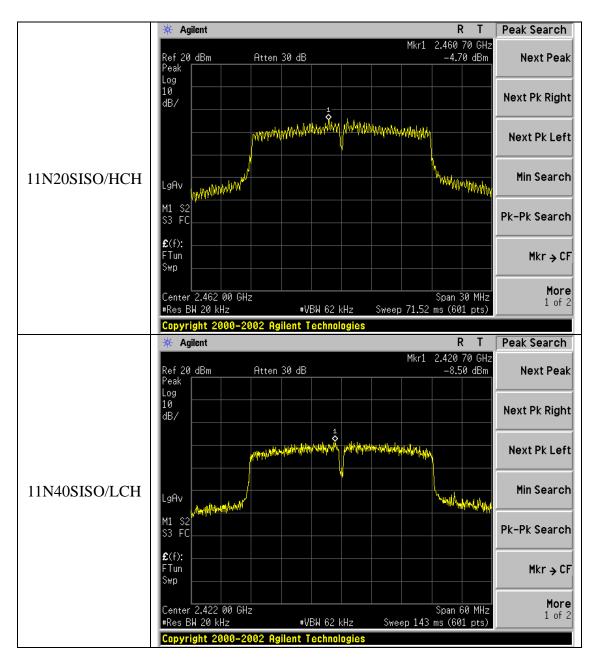


Test Graph









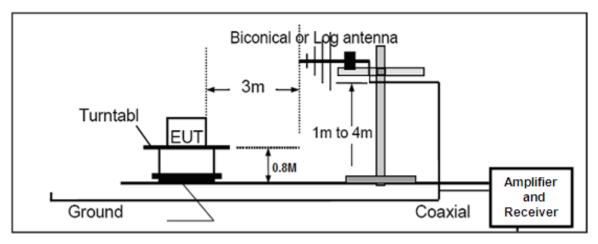
	🔆 Agilent R T	Peak Search
	Mkr1 2.439 50 GHz Ref 20 dBm Atten 30 dB -8.55 dBm Peak Log	Next Peak
	10 dB/	Next Pk Right
	matter and the second states of the second states and the	Next Pk Left
11N40SISO/MCH		Min Search
	M1 \$2	Pk-Pk Search
	£(f):	Mkr → CF
	Center 2.437 00 GHz Span 60 MHz •Res BW 20 kHz #VBW 62 kHz Sweep 143 ms (601 pts)	More 1 of 2
	Copyright 2000-2002 Agilent Technologies	
	* Agilent R T	Peak Search
	Mkr1 2.452 60 GHz Ref 20 dBm Atten 30 dB -7.40 dBm Peak	Next Peak
	Log 10 dB/	Next Pk Right
	http://www.handline.com/and/com/and/com/and/and/com/and/and/com/and/com/and/com/and/com/and/com/and/com/and/com/	Next Pk Left
11N40SISO/HCH		Min Search
	M1 S2 S3 FC	Pk-Pk Search
	M1 S2	Pk-Pk Search Mkr → CF
	M1 \$2 \$3 FC £(f): FTun	

11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

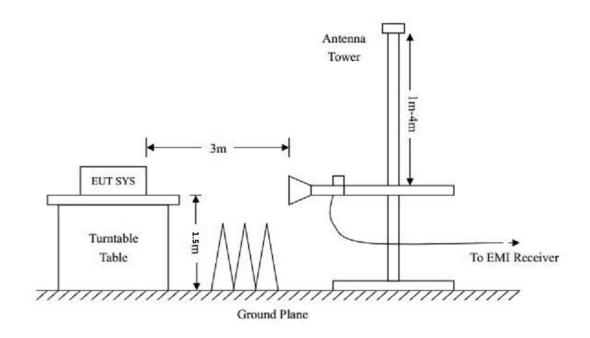
- 1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting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

11.2. TEST SETUP



RADIATED EMISSION TEST SETUP 30MHz-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: 1. 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

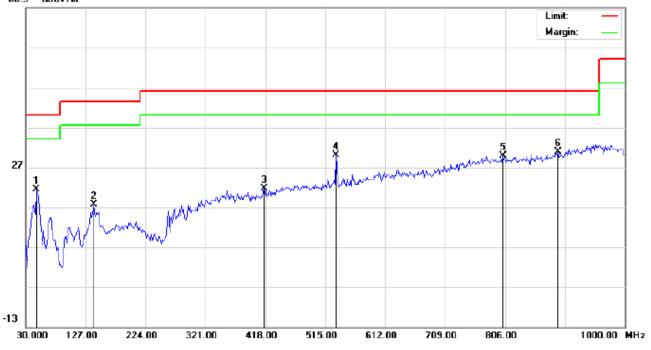
RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

EUT	Tablet PC	Model Name	7DTB44
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

66.9 dBuV/m



Site: site #1 Limit: FCC Class B 3M Radiation EUT: Tablet PC M/N: 7DTB44 Mode: Low channel TX Note:

Power: AC 120V/60Hz Distance: 3m

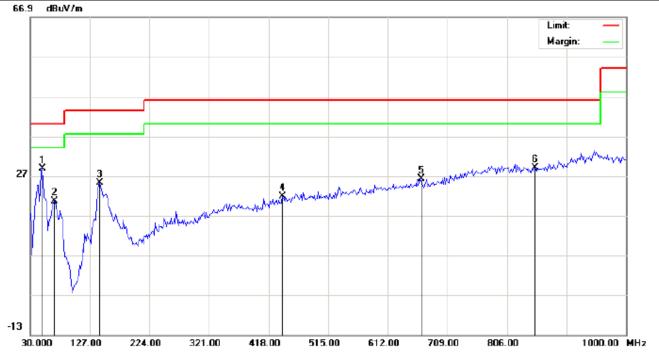
Polarization: Horizontal

Temperature: 22.8 Humidity: 53.8 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		47.7833	10.05	11.39	21.44	40.00	-18.56	peak			
2		139.9333	2.34	15.17	17.51	43.50	-25.99	peak			
3		416.3833	2.05	19.57	21.62	46.00	-24.38	peak			
4		532.7833	7.94	22.02	29.96	46.00	-16.04	peak			
5		802.7667	2.47	27.32	29.79	46.00	-16.21	peak			
6	*	891.6833	2.41	28.39	30.80	46.00	-15.20	peak			

RESULT: PASS

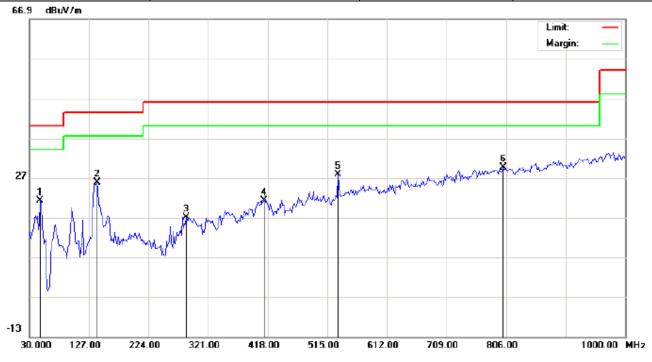
EUT	Tablet PC	Model Name	7DTB44
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



Site: site #1 Limit: FCC Class B 3M Radiation EUT: Tablet PC M/N: 7DTB44 Mode: Low channel TX Note: Polarization: Vertical Power: AC 120V/60Hz Distance: 3m Temperature: 22.8 Humidity: 53.8 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	49.4000	20.48	8.28	28.76	40.00	-11.24	peak			
2		68.8000	15.88	4.73	20.61	40.00	-19.39	peak			
3		143.1667	10.04	15.22	25.26	43.50	-18.24	peak			
4		440.6333	1.43	20.31	21.74	46.00	-24.26	peak			
5		666.9667	1.90	24.30	26.20	46.00	-19.80	peak			
6		851.2667	1.69	27.34	29.03	46.00	-16.97	peak			

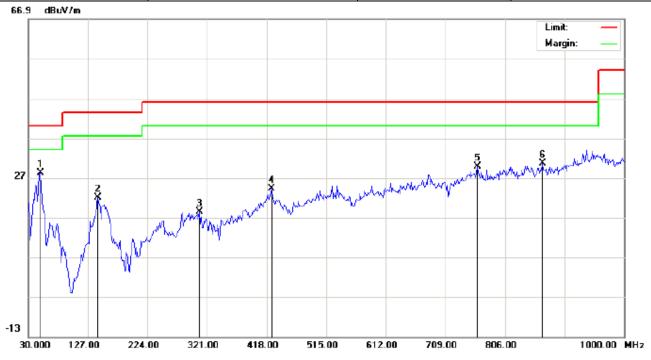
EUT	Tablet PC	Model Name	7DTB44
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal



Site: site #1 Limit: FCC Class B 3M Radiation EUT: Tablet PC M/N: 7DTB44 Mode: Middle channel TX Note: Polarization: *Horizontal* Power: AC 120V/60Hz Distance: 3m Temperature: 22.8 Humidity: 53.8 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		47.7833	9.90	11.39	21.29	40.00	-18.71	peak			
2		139.9333	10.58	15.17	25.75	43.50	-17.75	peak			
3		285.4333	4.08	12.93	17.01	46.00	-28.99	peak			
4		411.5333	1.81	19.42	21.23	46.00	-24.77	peak			
5		532.7833	5.75	22.02	27.77	46.00	-18.23	peak			
6	*	801.1500	2.20	27.32	29.52	46.00	-16.48	peak			

EUT	Tablet PC	Model Name	7DTB44
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical



Site: site #1 Limit: FCC Class B 3M Radiation EUT: Tablet PC M/N: 7DTB44 Mode: Middle channel TX Note:

Polarization: Vertical Power: AC 120V/60Hz Distance: 3m Temperature: 22.8 Humidity: 53.8 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	cm	cm	degree	
1	*	49.4000	19.95	8.28	28.23	40.00	-11.77	peak			
2		143.1667	6.83	15.22	22.05	43.50	-21.45	peak			
3		308.0667	2.41	15.95	18.36	46.00	-27.64	peak			
4		426.0833	4.32	19.86	24.18	46.00	-21.82	peak			
5		760.7333	3.05	26.78	29.83	46.00	-16.17	peak			
6		867.4333	2.92	27.76	30.68	46.00	-15.32	peak			

EUT	Tablet PC	Model Name	7DTB44
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal



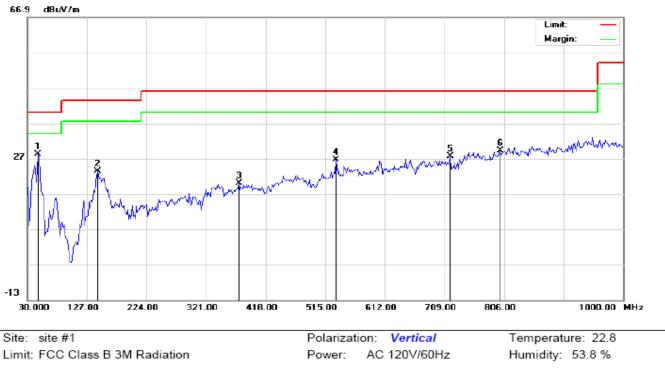
Site: site #1 Limit: FCC Class B 3M Radiation EUT: Tablet PC M/N: 7DTB44 Mode: High channel TX Note:

Polarization: *Horizontal* Power: AC 120V/60Hz Distance: 3m Temperature: 22.8 Humidity: 53.8 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	47.7833	14.17	11.39	25.56	40.00	-14.44	peak			
2		139.9333	6.47	15.17	21.64	43.50	-21.86	peak			
3		327.4667	2.14	17.24	19.38	46.00	-26.62	peak			
4		463.2667	2.27	20.73	23.00	46.00	-23.00	peak			
5		639.4833	3.70	23.82	27.52	46.00	-18.48	peak			
6		844.8000	3.98	27.31	31.29	46.00	-14.71	peak			

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EUT	Tablet PC	Model Name	7DTB44
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical



EUT: Tablet PC M/N: 7DTB44 Mode: High channel TX Note:

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	47.7833	19.89	8.39	28.28	40.00	-11.72	peak			
2		144.7833	8.19	15.23	23.42	43.50	-20.08	peak			
3		374.3500	1.14	18.90	20.04	46.00	-25.96	peak			
4		532.7833	4.64	22.02	26.66	46.00	-19.34	peak			
5		718.7000	1.91	25.73	27.64	46.00	-18.36	peak			
6		799.5333	1.86	27.31	29.17	46.00	-16.83	peak			

RESULT: PASS

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

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

3. 30MHz~1GHz:(Scan with 11b,11g,11n, the worst case is 11b Mode)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector				
			(dDu)//m)	(dDu)//m)	(dD)	Turne	Comment			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре				
TX 11b 2412MHz										
4824.092	41.47	10.44	51.91	74	-22.09	Pk	Horizontal			
4824.092	34.12	10.44	44.56	54	-9.44	AV	Horizontal			
7236.127	45.16	10.39	55.55	74	-18.45	pk	Horizontal			
7236.127	32.44	10.39	42.83	54	-11.17	AV	Horizontal			
4824.098	42.06	10.39	52.45	74	-21.55	Pk	Vertical			
4824.082	34.79	10.39	45.18	54	-8.82	AV	Vertical			
7236.110	45.24	10.68	55.92	74	-18.08	Pk	Vertical			
7236.054	30.46	10.68	41.14	54	-12.86	AV	Vertical			
			TX 11b 2437M	Hz						
4874.072	42.48	10.39	52.87	74	-21.13	Pk	Horizontal			
4874.108	33.26	10.39	43.65	54	-10.35	AV	Horizontal			
7311.092	42.51	12.68	55.19	74	-18.81	Pk	Horizontal			
7311.131	36.37	12.68	49.05	54	-4.95	AV	Horizontal			
4874.098	42.11	10.39	52.5	74	-21.5	Pk	Vertical			
4874.044	38.37	10.39	48.76	54	-5.24	AV	Vertical			
7311.145	41.14	12.68	53.82	74	-20.18	Pk	Vertical			
7311.104	31.19	12.68	43.87	54	-10.13	AV	Vertical			
			TX 11b 2462M	Hz						
4924.128	45.34	10.39	55.73	74	-18.27	pk	Horizontal			
4924.083	32.47	10.39	42.86	54	-11.14	AV	Horizontal			
7386.071	41.93	12.68	54.61	74	-19.39	pk	Horizontal			
7386.134	32.23	12.68	44.91	54	-9.09	AV	Horizontal			
4924.042	41.49	10.39	51.88	74	-22.12	pk	Vertical			
4924.060	35.34	10.39	45.73	54	-8.27	AV	Vertical			
7386.051	42.45	12.68	55.13	74	-18.87	pk	Vertical			
7386.054	31.32	12.68	44	54	-10	AV	Vertical			

RADIATED EMISSION ABOVE 1GHZ

RESULT: PASS

Note: 1~25GHz scan with 11b. No recording in the test report at least have 20dB margin.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission Leve - Limit

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

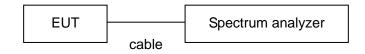
b)Set RBW=100kHz,VBW=300kHz

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

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	•••••			
TX 11b 2412MHz										
2399.9	70.44	-13	57.44	74	-16.56	peak	Horizontal			
2399.9	53.03	-13	40.03	54	-13.97	AVG	Horizontal			
2400	75.24	-12.99	62.25	74	-11.75	peak	Horizontal			
2400	56.19	-12.99	43.2	54	-10.8	AVG	Horizontal			
2399.9	71.72	-12.97	58.75	74	-15.25	peak	Vertical			
2399.9	55.78	-12.97	42.81	54	-11.19	AVG	Vertical			
2400	72.18	-12.94	59.24	74	-14.76	peak	Vertical			
2400	54.26	-12.94	41.32	54	-12.68	AVG	Vertical			
			TX 11b 2	2462MHz						
2483.5	75.31	-12.78	62.53	74	-11.47	peak	Horizontal			
2483.5	56.29	-12.78	43.51	54	-10.49	AVG	Horizontal			
2483.6	71.23	-12.77	58.46	74	-15.54	peak	Horizontal			
2483.6	52.56	-12.77	39.79	54	-14.21	AVG	Horizontal			
2483.5	74.58	-12.76	61.82	74	-12.18	peak	Vertical			
2483.5	51.46	-12.76	38.7	54	-15.3	AVG	Vertical			
2483.6	78.14	-12.72	65.42	74	-8.58	peak	Vertical			
2483.6	52.05	-12.72	39.33	54	-14.67	AVG	Vertical			

RESULT: PASS

Note: Scan with 11b,11g,11n, the worst casw is 11b Mode

Factor=Antenna Factor + Cable loss - Amplifier gain,

Emission Level = Meter Reading + Factor

Margin= Emission Level -Limit.

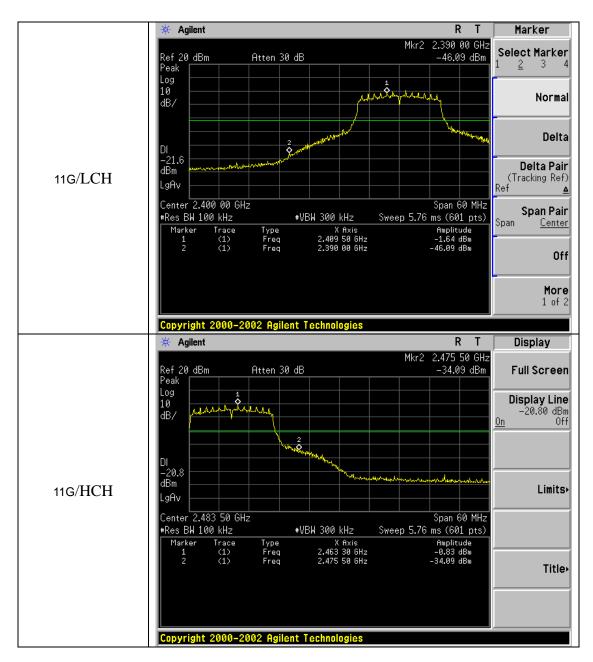
The "Factor" value can be calculated automatically by software of measurement system.

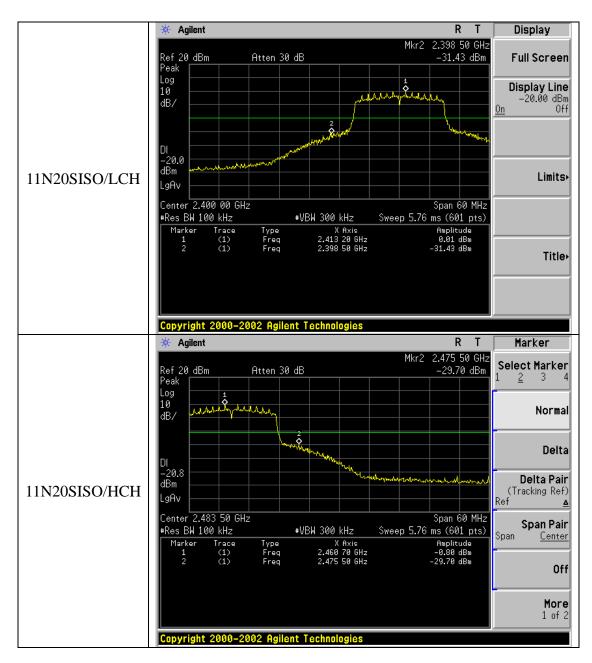
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdi ct
11B	LCH	4.62	-31.03	-15.4	PASS
11B	HCH	5.09	-25.82	-14.9	PASS
11G	LCH	-1.64	-46.09	-21.6	PASS
11G	HCH	-0.83	-34.09	-20.8	PASS
11N20SISO	LCH	0.01	-31.43	-20.0	PASS
11N20SISO	HCH	-0.80	-29.70	-20.8	PASS
11N40SISO	LCH	-6.17	-40.80	-26.2	PASS
11N40SISO	HCH	-5.94	-35.29	-25.9	PASS

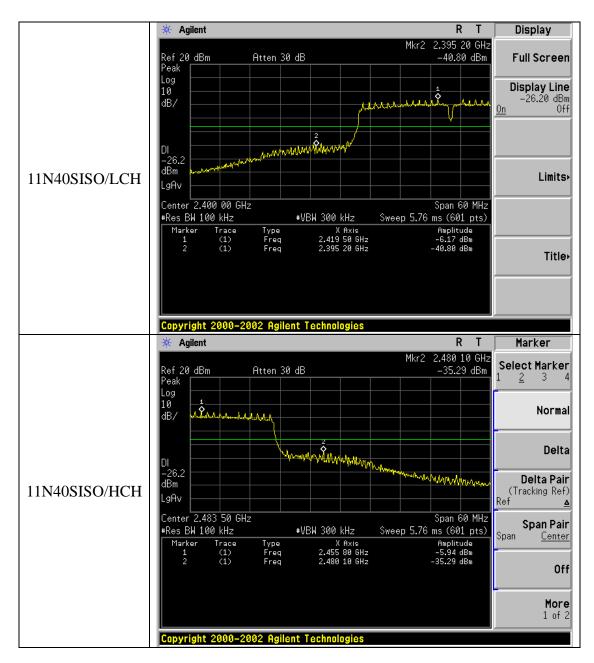
12.4. Conducted Test Result

Graphs Agilent R T Marker 兼 2.397 00 GHz -31.03 dBm Mkr2 Select Marker Ref 20 dBm Atten 30 dB 2 Peak Log 10 Normal dB/ 2 \$ Delta DI -15.4 dBm M Delta Pair 11B/LCH (Tracking Ref) LgAv Ref Δ Center 2.400 00 GHz #Res BW 100 kHz Span 60 MHz Span Pair Sweep 5.76 ms (601 pts) ₩VBW 300 kHz Span <u>Center</u> Trace (1) (1) X Axis 2.411 50 GHz 2.397 00 GHz Amplitude 4.62 dBm -31.03 dBm Type Freq Freq Marker 12 Off More 1 of 2 Copyright 2000–2002 Agilent Technologies Agilent R Т Marker Mkr2 2.477 00 GHz -25.82 dBm Ref 20 dBm Peak Select Marker Atten 30 dB <u>2</u> 3 1 Log 10 dB/ Normal ò Delta DI -14.9 dBm man WAMA Delta Pair Nr. 1 (Tracking Ref) 11B/HCH LgAv Ref Δ Center 2.483 50 GHz #Res BW 100 kHz Span 60 MHz Span Pair #VBW 300 kHz Sweep 5.76 ms (601 pts) Span <u>Center</u> Amplitude 5.09 dBm -25.82 dBm Type Freq Freq X Axis 2.464 00 GHz 2.477 00 GHz Marker Trace (1) (1) 12 Off More 1 of 2 Copyright 2000–2002 Agilent Technologies

Test Graph







13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

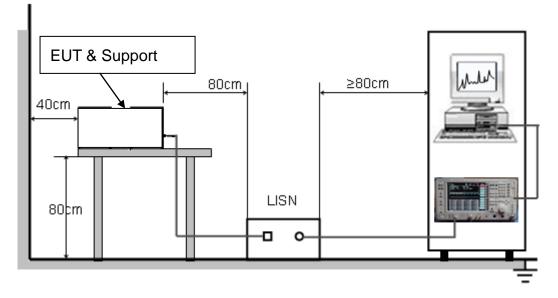
Frequency	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

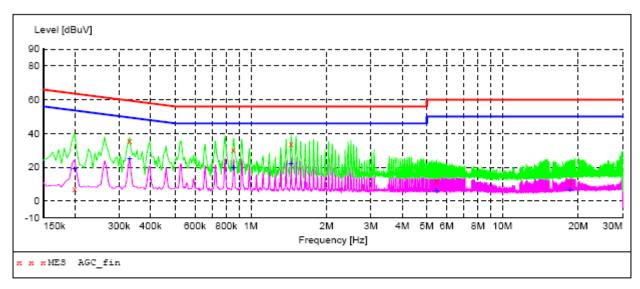
- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground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

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

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.
- 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

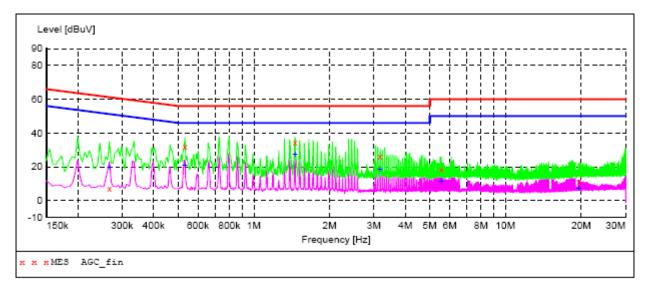
MEASUREMENT RESULT: "AGC fin"

2016/7/26 11:3	37							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX
								STATE
MHz	dBuV	dB	dBuV	dB				
0.199500	6.90	10.3	64	E 6 7	OP	L1	FLO	ON
0.330000	35.90	10.3	60	56.7	-		FLO	ON
0.330000	35.90	10.5		23.6	QP	L1	r LO	UN
0.852000	30.10	10.4	56	25.9	QP	L1	FLO	ON
1.446000	33.70	10.4	56	22.3	QP	L1	FLO	ON
5.460000	12.20	10.6	60	47.8	QP	L1	FLO	ON
18.559500	11.40	11.8	60	48.6	QP	L1	FLO	ON

MEASUREMENT RESULT: "AGC fin2"

2016/7/26 11:37

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.199500	18.90	10.3	54	34.7	AV	L1	FLO	ON
0.330000	25.00	10.3	50	24.5	AV	L1	FLO	ON
0.852000	19.60	10.4	46	26.4	AV	L1	FLO	ON
1.446000	21.90	10.4	46	24.1	AV	L1	FLO	ON
5.460000	6.10	10.6	50	43.9	AV	L1	FLO	ON
18.559500	6.60	11.8	50	43.4	AV	L1	FLO	ON



Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "AGC fin"

2016/7/26 11:4 Frequency		Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				SIAIL
0.267000 0.532500 1.459500 3.174000 5.559000 19.585500	7.10 32.20 34.20 25.90 18.30 11.60	10.3 10.3 10.4 10.5 10.6 12.0	61 56 56 60 60	54.1 23.8 21.8 30.1 41.7 48.4	QP QP QP QP QP QP	N N N N N	FLO FLO FLO FLO FLO FLO	ON ON ON ON ON

MEASUREMENT RESULT: "AGC fin2"

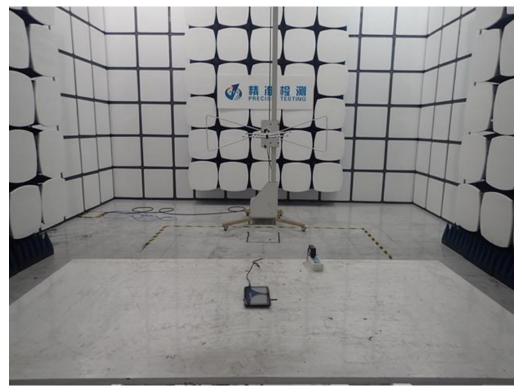
2016/7/26 11:48 Level Transd Limit Margin Detector Line PE AUX Frequency STATE MHz dBuV dB dBuV dB 10.3 0.267000 19.60 51 31.6 AV Ν FLO ON 25.4 AV 0.532500 20.60 10.3 Ν FLO ON 46 1.459500 27.10 10.4 46 18.9 AV Ν FLO ON 3.174000 18.20 10.5 27.8 AV Ν FLO ON 46 5.559000 11.40 10.6 50 38.6 AV FLO ON Ν 19.585500 6.90 12.0 50 43.1 AV Ν FLO ON

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

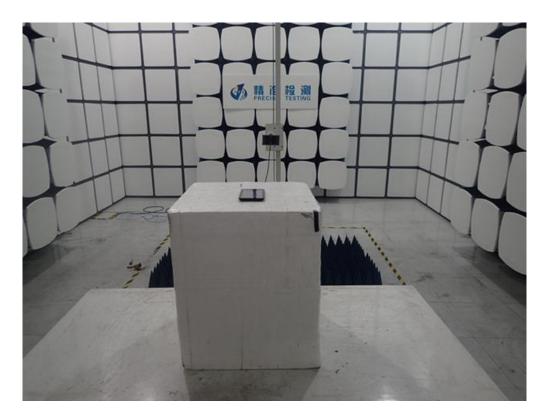
FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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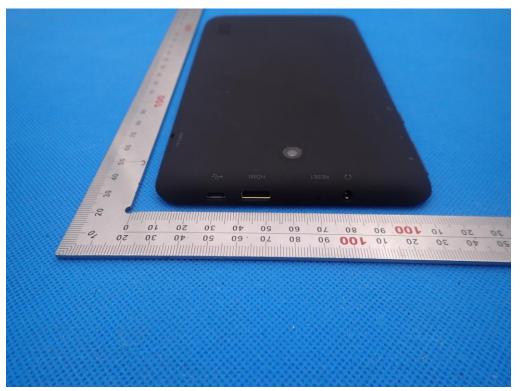


APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT

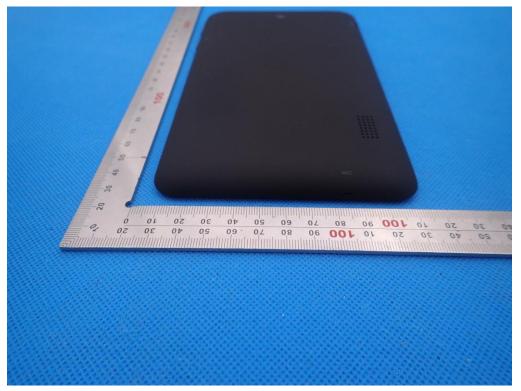
THE LABEL OF ADAPTER





TOP VIEW OF EUT

BOTTOM VIEW OF EUT





FRONT VIEW OF EUT

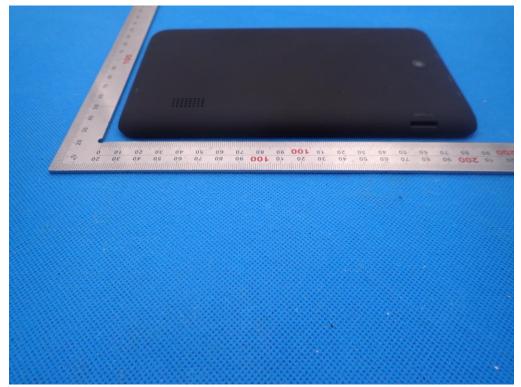
BACK VIEW OF EUT

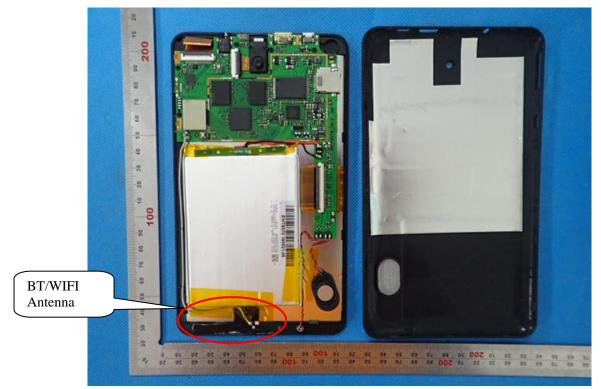




LEFT VIEW OF EUT

RIGHT VIEW OF EUT





OPEN VIEW OF EUT-1

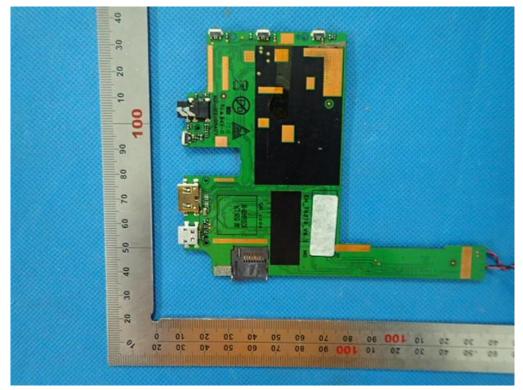
OPEN VIEW OF EUT-2





INTERNAL VIEW OF EUT-1

INTERNAL VIEW OF EUT-2



----END OF REPORT----