

Equipment

: Mobile Phone

Brand Name

: Xi

Model No.

: F-06E

FCC ID

: VQK-F06E

Standard

: 47 CFR FCC Part 15.407

Applicant

: FUJITSU LIMITED

Manufacturer

1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki

211-8588, Japan

Operate Mode : Client without radar detection

The product sample received on Mar. 27, 2013 and completely tested on Apr. 08, 2013. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC 06-96 Appendix and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Vic Hsiao / Supervisor

1190

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FCC DFS Client Test Result

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Brand Name	:	Xi
Model No.	:	F-06E
Standard	:	47 CFR FCC Part 15.407
Sporton No.	:	FZ322231
Operate Mode	:	Client without radar detection

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1 Information

1.1 Antenna Information

	Antenna General Information							
No.	Ant. Cat.	Ant. Type	Model	G _{ANT (dBi)}				
1	Integral	Monopole Antenna		-4				
	For radiated tests, the DFS test should be performed with lowest antenna gain (regardless of antenna type).							
		oorts are used for the tests and tion Threshold level during calib		0] dBi that				

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1.1.1 Type of EUT

	Identify EUT				
EUT	Γ Serial Number	N/A			
IME	I No.	355250050008145			
Pres	sentation of Equipment	☐ Production ; ☐ Prototype			
		Type of EUT			
\boxtimes	⊠ Stand-alone				
	Combined (EUT where the radio part is fully integrated within another device)				
	Combined Equipment - Brand Name / Model No.:				
	Plug-in radio (EUT intended for a variety of host systems)				
	Host System - Brand Name / Model No.:				
	Other:				

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1.2 Accessories and Support Equipment

	Accessories						
No.	No. Equipment Brand Name Model Name Spec.						
1	Cradle	Fujitsu limited	CA50601-1791	5.0Vdc, 1.5A			
2	Battery	Fujitsu limited	CA54310-0046	3.8V, 3,020mA Li-ion			

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	Support Equipment						
No.	No. Equipment Brand Name Model Name FCC ID						
1	AP (Master)	D-Link	DIR-826L	KA2IR826LMO1			
2	Notebook	DELL	LATITUDE-E5420	-			

1.3 Testing Location Information

	Testing Location					
\boxtimes	HWA YA	ADD	: No. 52, Hwa Y	a 1st Rd., Kwei-Shar	n Hsiang, Tao Yuan H	sien, Taiwan, R.O.C.
	TEL: 886-3-327-3456					
	☐ JHUBEI ADD :8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085					
Te	Test Condition Test Site No. Test Engineer Test Environment Test Date					
	DFS Site		DF01-HY	Ben Tseng	21°C / 70%	3/27-4/8

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1.4 DFS and TPC Information

	The DFS I	Related Operating Mode(s) of the E	≣quipment
☐ Master			
Cilent with ra	dar detection		
	t radar detection		
Software / Firmv	vare Version	Android Ver : 4.2.2 , Baseband ver : build@PROMERGY041 #1 Thu Ma	7012.0101.0105 , Kernel Ver : 3.4.0 r 21 11:45:48 JST 2013
Communication	Mode		☐ Frame Based
IEEE Std. 802.11	Frequency Range (MHz)	TPC (Transmit Power Control)	Passive Scan
a / n (HT20)	⊠ 5250-5350	No	Yes
n (HT40)		No	Yes
	5600-5650	-	-
<u> </u>		Data Streaming m the test file from the Master to the	Client
_ ,		The test life from the Master to the	

☑ IP Based (Load Based) - stream the test file from the Master to the Client.
 ☑ Performed NTIA approved WAV file. (EUT w/o video function application)
 ☐ Performed NTIA approved MPEG2 file. (EUT with video function application)
 ☐ Alternative streaming e.g., FTP with about 17 to 20% loading and submit proposal to FCC.
 ☐ Frame Based - stream the test file from the Master to the Client.
 ☐ fixed talk/listen ratio, set the ratio to 45%/55%

NTIA test file refer as: http://ntiacsd.ntia.doc.gov/dfs/

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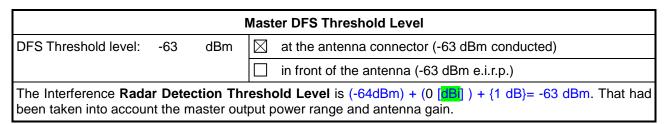
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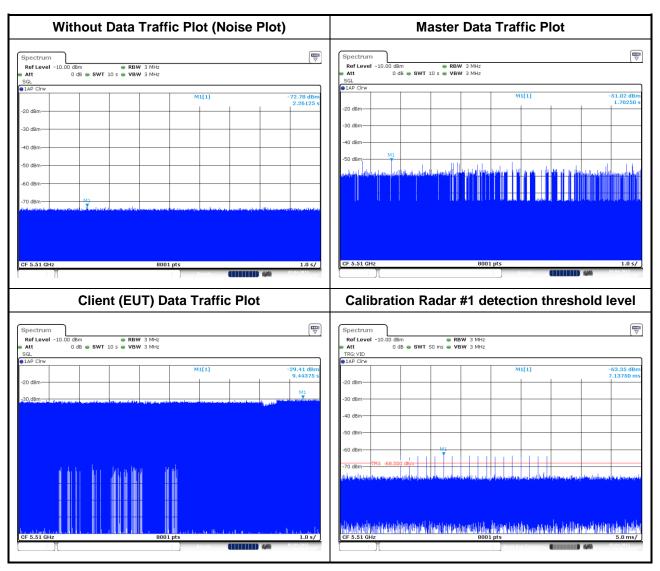
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1.6 Master DFS Threshold Level

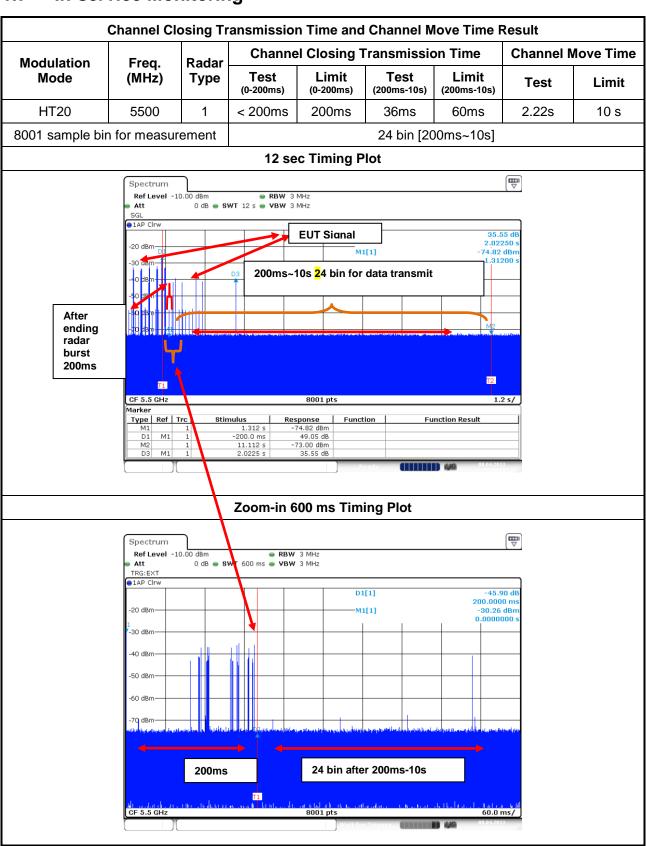


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1.7 In-service Monitoring



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Channel Closing Transmission Time and Channel Move Time Result Channel Closing Transmission Time Channel Move Time Freq. Modulation Radar Mode Test Limit Test Limit (MHz) **Type Test** Limit (200ms-10s) (200ms-10s) (0-200ms) (0-200ms) HT40 5510 (F3') 2.28s 10s 1 < 200ms 60ms 200ms 31.5ms 8001 sample bin for measurement 21 bin [200ms~10s] 12 sec Timing Plot Spectrum Att ●1AP Clrw D3[1] 2.08450 -20 dBr M1[1] 4.98 dBi 1.13000 200ms~10s 21 bin for data transmit After ending radar burst 200ms CF 5.51 GHz 8001 pts 1.2 s/ Type | Ref | T Response **Function Result** 1.13 s -200.0 ms M1 M1 M2 -74.98 dBm 49.53 dB -74.48 dBm 36.04 dB М1 Zoom-in 600 ms Timing Plot Spectrum Ref Level -10.00 dBm ■ RBW 3 MHz Att 0 dB - SV 600 ms . VBW 3 MHz D1[1] 200.0000 m -29.46 dBi -20 dBm M1[1] 30 dBm 40 dBm 200ms 21 bin after 200ms-10s CF 5.51 GHz 8001 pts 60.0 ms/

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Modulation	From (MUE)	Nor	Non-Occupancy Period			
Mode	Freq. (MHz)	Measured	Limit	Result		
HT20	5500 (F3)	>30min	30min	Complied		
	2000	sec Timing Plot				
	■ Att 0 dB ■ SWT 2000 s VE SGL	aw 3 MHz aw 3 MHz				
	●1AP Cirw	M2[1] —M1[1]	-72,69 dBm 1846.750 s -25,19 dBm 46,750 s			
	J dBm-					
	o dBm-					
	D dBm	. Harring the standard of the	M2			
			<u>π2</u>			

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2 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Until	Remark
Spectrum Analyzer	R&S	FSV-7	101607	9kHz ~ 7GHz	2012/12/19	2013/12/18	DF01-HY
RF Cable-01	Huber&Suhner	SUCOFLEX 104	296081/4	0.5m	2012/12/24	2013/12/23	DF01-HY
RF Cable-02	Huber&Suhner	SUCOFLEX 104	500199/4	0.5m	2012/12/24	2013/12/23	DF01-HY
RF Cable-03	Huber&Suhner	SUCOFLEX 104	329023/4	0.2m	2012/12/24	2013/12/23	DF01-HY
RF Cable-04	Huber&Suhner	SUCOFLEX 104	329021/4	0.2m	2012/12/24	2013/12/23	DF01-HY
RF Cable-05	Huber&Suhner	SUCOFLEX 104	MY15686/4	4m	2012/12/24	2013/12/23	DF01-HY
Vector Signal Generator	R&S	SMJ100A	100498	100kHz ~ 6GHz	2012/12/13	2013/12/12	DF01-HY
Combiner(1x2)	WOKEN	2WAYDIV	12101200003		2012/12/24	2013/12/23	DF01-HY
Combiner(1x3)	MCLI	PS3-7	24940		2012/12/24	2013/12/23	DF01-HY
Combiner(1x4)	WOKEN	4WAYDIV	0120A0420110 10		2012/12/24	2013/12/23	DF01-HY

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