Project 25 Compliance Assessment Program Summary Test Report

Codan Radio Communications UR-4E800-00-000

STR-Daniels-100003

Test Item Description				
Manufacturer	Codan Radio Communications			
Manufacturer Contact	Allison McLennan			
Product Name	MT-4E Receiver UR-4E800-00-000 (798-824 MHz)			
Installed Options	Hardware	50149.6		
		50171.3		
		50172.5		
		50181.1		
	Firmware	2.2.2.D.S3.3		
Installed Vocoder	Enhanced Full Rate			

Test Description

P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.1.1 – Project 25 Phase 1 Common Air Interface Performance Conventional Mode Operation Base Station/Repeaters

Laboratory Information		
P25 CAP Laboratory Code	P25CAP081016	
Date(s) of Test April 27, 2010 to 29, 2010		
Date(s) of Issue	April 29, 2010	

Informative References		
Date	Title	
March 2010	P25-CAB-CAI_TEST_REQ	

– Project 2	AI_TEST_REQ – March 2010, Section 2.2.1.1 5 Phase 1 Common Air Interface ce Conventional Mode Operation Base peaters	DTR: TIMCO081016 UR-4E	-800-00-00
	RECEIVER TESTS	*	
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	≤ -113 dBm (Class B)	P
2.1.5	Faded Reference Sensitivity	≤ -105 dBm (Class B)	Р
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class B)	Р
2.1.8	Co-Channel Rejection	≤ 9 dB	Р
2.1.9	Spurious Response Rejection	≥ 70 dB (Class B)	Р
2.1.10	Intermodulation Rejection	≥ 70 dB (Class B)	Р
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	Р
2.1.17	Late Entry Unsquelch Delay		P
	No Talk Group or Encryption	≤ 125 ms	
	Talk Group Only	≤ 370 ms	
	Encryption Only	≤ 370 ms	
	Both (on clear or encrypted channel)	≤ 460 ms	
2.1.18	Receiver Throughput Delay	≤ 125 ms	Р
	TX TEST	S (N/A)	
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel	≤ 67 dB	N/A1
	Power Ratio		
2.2.12	Transmitter Power and Encoder Attack		
	Time		
	Transmitter Attack Time	≤50 ms	N/A1
	Encoder Attack Time	≤100 ms	N/A1
2.2.14	Transmitter Throughput Delay	≤ 125 ms	N/A1
2.2.15	Frequency Deviation for C4FM		N/A1
	High Level signal Deviation	2544 Hz ≤ fdev ≤ 3111 Hz	
	Low Level Signal Deviation	848 Hz ≤ f _{dev} ≤ 1037 Hz	
2.2.16	Modulation Fidelity	≤ 10 % (Class B)	N/A1
2.2.18	Transient Frequency Behavior		N/A1
	Time Interval t1 = 20.0 ms	{Δf} ≤ 12.5 kHz	
	Time Interval t2 = 50.0 ms	{Δf} ≤ 6.25 kHz	
	Time Interval t3 = 10.0 ms	{Δf} ≤ 12.5 kHz	

Test Case Result Definitions		
No Test Performed	-	
Test Does Not Apply to the Test Object	N/A	
Test Object Meets Requirements	P (Pass)	
Test Object Does Not Meet Requirements	F (Fail)	
Test Object is Inconclusive	I (Inconclusive)	

Comments

N/A1: UR-4E800 is a modular receiver and therefore P25-CAB-CAI P25-CAB-CAI_TEST_REQ –March 2010, Section 2.2.1.1 Transmitter tests are not applicable and not supported by this module.

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OMB NO: 1640-0015

EXPIRATION DATE: 07/31/2015

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