





























Appendix F: Frequency Stability

Test Result

Bandwidth (MHz) :		10MHz	RB #:	Full
Limit (ppm) :		2.5ppm	Channel:	MCH
Temperature (°C)	Voltage (V)	Modulation		Result
		QPSK	16QAM	
		Deviation (ppm)	Deviation (ppm)	
50	3.8	-0.022	-0.031	PASS
40	3.8	+0.014	+0.027	
30	3.8	+0.011	+0.016	
20	3.8	+0.013	+0.015	
10	3.8	+0.015	+0.023	
0	3.8	+0.020	+0.024	
-10	3.8	-0.024	-0.025	
-20	3.8	-0.032	-0.025	
-30	3.8	+0.030	+0.035	
20	4.2	+0.016	+0.020	
20	3.5	-0.015	-0.016	PASS

Note: All bandwidth and modulation are tested, only the worst result is reported.

Field Strength of Spurious Radiation Measurement

Test Result

Bandwidth:	1.4M		Test channel:	Lowest
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3421.4	Vertical	-49.63	-13.00	PASS
5132.1	V	-54.59		
-	V	-		
3421.4	Horizontal	-50.42		
5132.1	H	-53.37		
-	H	-		
Bandwidth:	1.4M		Test channel:	Middle
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3465.0	Vertical	-51.63	-13.00	PASS
5197.5	V	-55.59		
-	V	-		
3465.0	Horizontal	-49.50		
5197.5	H	-54.49		
-	H	-		
Bandwidth:	1.4M		Test channel:	Highest
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3508.6	Vertical	-51.21	-13.00	PASS
5262.9	V	-54.76		
-	V	-		
3508.6	Horizontal	-52.35		
5262.9	H	-55.21		
-	H	-		

Bandwidth:	1.4M		Test channel:	Lowest
Modulation:	16QAM		Temperature :	23~24°C
RB #:	1		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3465.0	Vertical	-51.63	-13.00	PASS
5197.5	V	-55.45		
-	V	-		
3465.0	Horizontal	-52.65		
5197.5	H	-56.32		
-	H	-		
Bandwidth:	1.4M		Test channel:	Middle
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3465.0	Vertical	-51.33	-13.00	PASS
5197.5	V	-55.25		
-	V	-		
3465.0	Horizontal	-52.47		
5197.5	H	-55.16		
-	H	-		
Bandwidth:	1.4M		Test channel:	Highest
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3508.6	Vertical	-50.30	-13.00	PASS
5262.9	V	-55.69		
-	V	-		
3508.6	Horizontal	-51.48		
5262.9	H	-56.50		
-	H	-		

Note: All bandwidth and modulation are tested, only the worst result is reported.