# SUBMITTED MEASURED DATA -- INDEX

# EXHIBIT DESCRIPTION

11C	Conducted Spurious Emissions: Setup, Specifications, Index			
11C-1	Quad Carrier - Conducted Spurious Emissions, Harmonics, Power Output at 42 Watts			
11C-2	Quad Carrier - Conducted Spurious Emissions, Harmonics, Power Output at 5 Watts			
11C-3	Single Carrier - Conducted Spurious Emissions, Harmonics, Power Output at 52 Watts			
11C-4	Single Carrier - Conducted Spurious Emissions, Harmonics, Power Output at 5 Watts			
11D	Radiated Spurious Emissions: Setup, Specifications, and Index			
11D-1	Quad Carrier - Radiated Spurious Emissions, Power Output at 42 Watts			
11D-2	Quad Carrier - Radiated Spurious Emissions, Power Output at 5 Watts			
11D-3	Single Carrier - Radiated Spurious Emissions, Power Output at 52 Watts			
11D-4	Single Carrier - Radiated Spurious Emissions, Power Output at 5 Watts			

## CONDUCTED SPURIOUS EMISSIONS

#### **SPECIFICATION REQUIREMENT:**

Reference: Part 90.669 (Emission Mask MTA)

On any frequency displacement of greater than 12.5 kHz removed from the authorized frequency block, the power of any emission shall be attenuated below the transmitter power (P), in Watts, by at least 43 plus 10 log<sub>10</sub>(P) dB or 80 dB, whichever is the lesser attenuation.

#### Modulation: Pseudorandom data

Carrier Frequency: A Quad carrier centered at 940.9500 MHz, or one single carrier frequency at 940.9500 MHz, was measured. This frequency is near the top edge of the extended operating band 935-941 MHz. Another measurement was conducted using a quad carrier centered at 937.5000, or a single carrier at 937.5000 MHz. This frequency is near the middle of the operating band.

## SPURIOUS EMISSION PLOTS:

#### EXHIBIT DESCRIPTION

- 11C-1 Quad Carrier Conducted Spurious Emissions, Harmonics, Power Output at 42 Watts The specification limit is -59.2 dBc
- 11C-2 Quad Carrier Conducted Spurious Emissions, Harmonics, Power Output at 5 Watts The specification limit is -50.0 dBc
- 11C-3 Single Carrier Conducted Spurious Emissions, Harmonics, Power Output at 52 Watts The specification limit is -60.2 dBc
- 11C-4 Single Carrier Conducted Spurious Emissions, Harmonics, Power Output at 5 Watts The specification limit is -50.0 dBc



EQUIPMENT TYPE: ABZ89FC5798





EQUIPMENT TYPE: ABZ89FC5798



EQUIPMENT TYPE: ABZ89FC5798

## RADIATED SPURIOUS EMISSIONS

## **SPECIFICATION REQUIREMENT:**

## Reference: Part 90.669 (Emission Mask MTA)

On any frequency displacement of greater than 12.5 kHz removed from the authorized frequency block, the power of any emission shall be attenuated below the transmitter power (P), in Watts, by at least 43 plus 10  $\log_{10}(P)$  dB or 80 dB, whichever is the lesser attenuation.

Modulation:Pseudorandom dataCarrier Frequency:A Quad carrier centered at 940.9500 MHz, or one single carrier frequency at 940.9500MHz, was measured.This frequency is near the top edge of the extended operating band 935-941 MHz.

## **SPURIOUS EMISSION PLOTS:**

EXHIBIT	DESCRIPTION		
11D-1	Quad Carrier - Radiated Spurious Emissions, Power Output at 42 Watts		
	The specification limit is -59.2 dBc		
11D-2	Quad Carrier - Radiated Spurious Emissions, Power Output at 5 Watts The specification limit is -50.0 dBc		
11D-3	Single Carrier - Radiated Spurious Emissions, Power Output at 52 Watts The specification limit is -60.2 dBc		
11D-4	Single Carrier - Radiated Spurious Emissions, Power Output at 5 Watts The specification limit is -50.0 dBc		









## TEST EQUIPMENT LIST

MODEL	MANUFACTURER	DESCRIPTION	Serial No.	Last Cal	Next Cal
438A	Hewlett Packard	RF Power Meter	3513U06093	10/24/05	10/23/08
8481A	Hewlett Packard	RF Power Sensor	3318A90348	11/19/04	11/19/07
83712A	Hewlett Packard	Signal Generator	3429A00455	no calibratio	on required
85460A	Hewlett Packard	EMI Analyzer, Filter	3704A00467	11/17/03	11/17/06
85462A	Hewlett Packard	EMI Analyzer, RF/Display	3906A00500	11/17/03	11/17/06
8593E	Hewlett Packard	EMI Receiver	3513A01649	05/19/04	05/19/07
(Various)	Weinschel, Kathrein, Bird	RF Loads, Couplers, Filters	Various	no calibratio	on required
3020A, etc.	Narda	Directional Coupler	Various	no calibratio	on required
8593A	Hewlett Packard	Spectrum Analyzer	3513A01649	05/19/04	05/19/07
438A	Hewlett Packard	RF Power Meter	2743A04603	10/28/05	10/28/06
8482A	Hewlett Packard	RF Power Sensor	2652A13844	10/31/05	10/31/06