5 TEST RESULTS FOR 802.11A

5.1 CONDUCTED EMISSIONS MEASUREMENT – FCC §15.207; RSS-210 §9

5.1.1 LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

5.1.2 CONDUCTED EMISSIONS MEASUREMENT TEST PROCEDURE

The EUT was placed 0.4 meters from the conducting bulkhead of the shielded room. The EUT was connected to mains through a line impedance stabilization network (LISN). The LISN provides 50 ohm/50 uH coupling impedance to the measuring receiver.

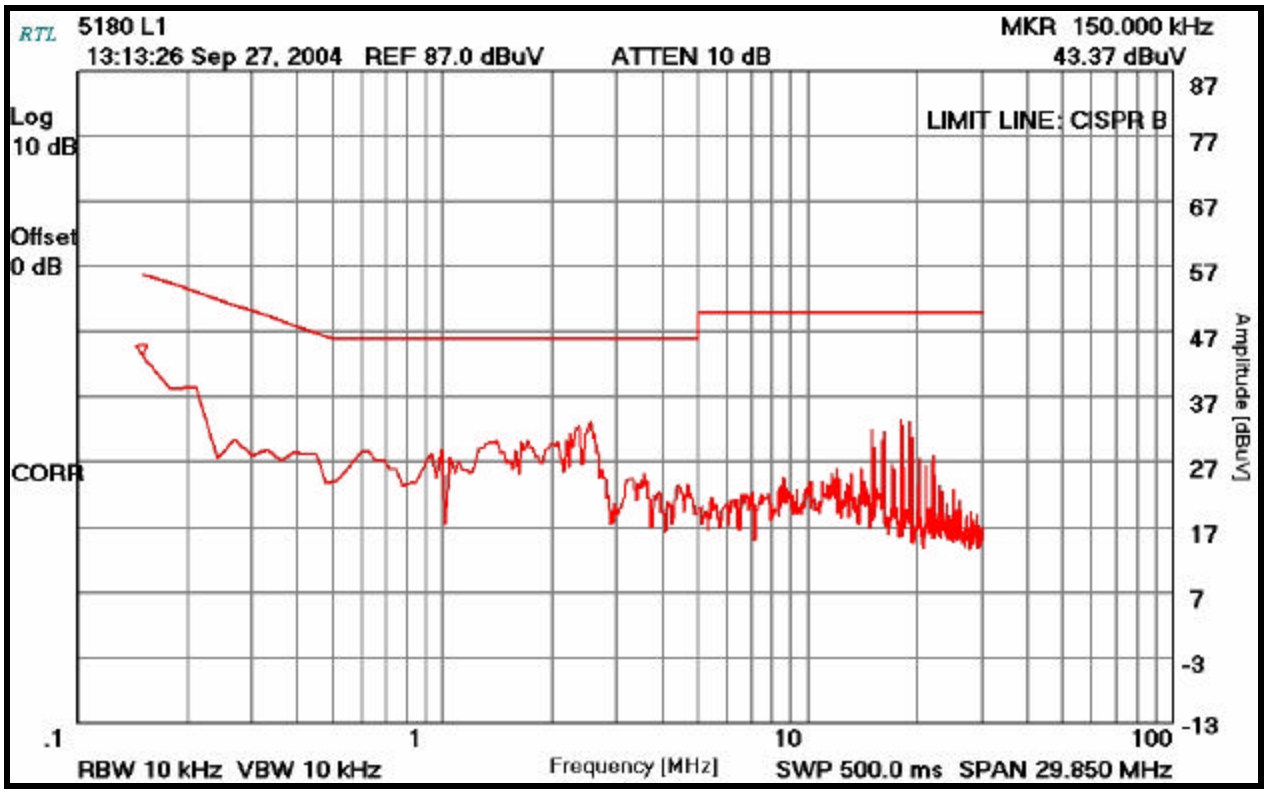
The test frequency range was from 150 kHz to 30 MHz.

TABLE 5-1: CONDUCTED EMISSIONS TEST EQUIPMENT

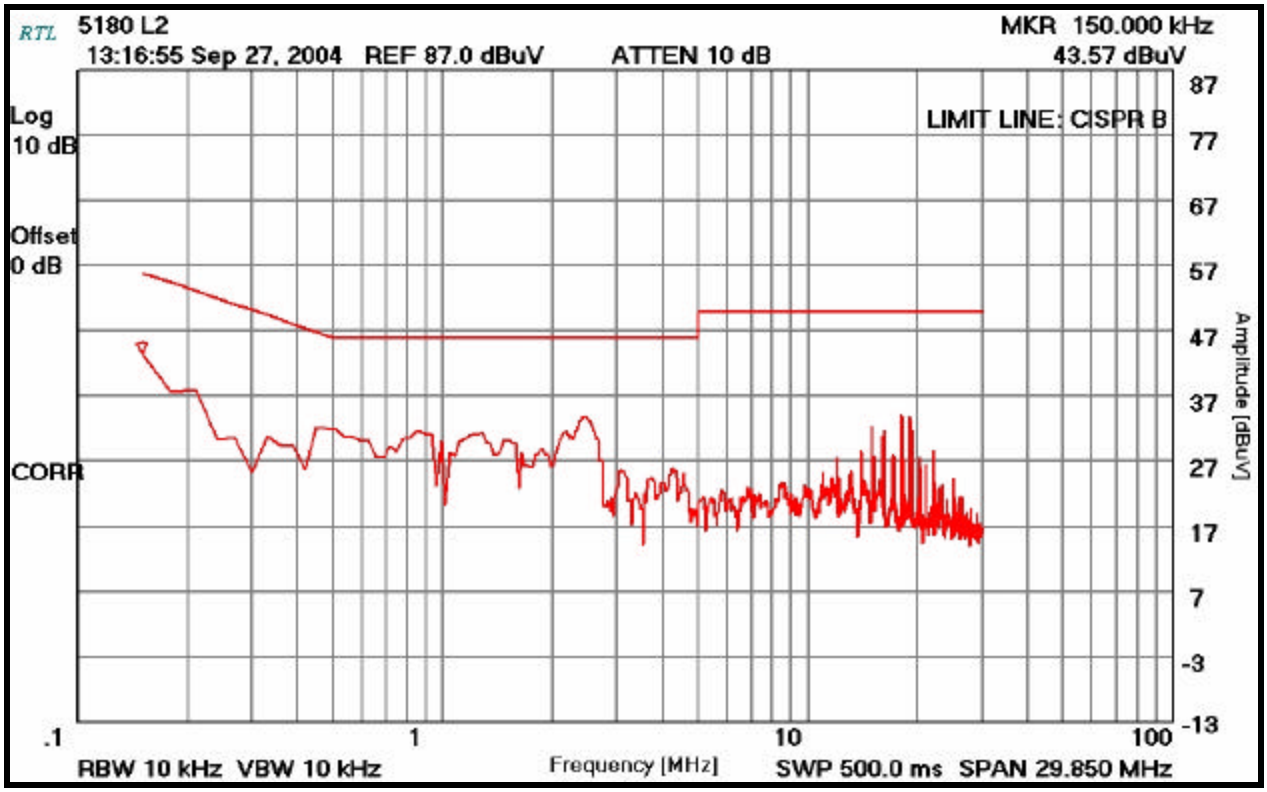
RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz – 22 GHz)	3138A07771	6/23/05
900896	Hewlett Packard	85662A	Display Section	2816A16471	2/27/05
900897	Hewlett Packard	8567A	HP Spectrum Analyzer (10 kHz - 1.5 GHz)	2727A00535	2/27/05
900729	Solar	8130	Filter	947306	N/A
901084	AFJ International	LS16/110VAC	16A LISN	16010020082	12/4/04
901083	AFJ International	LS16	LISN	16010020080	3/24/06
900889	Hewlett Packard	85685A	RF Preselector for HP 8566B or 8568B (20 Hz – 2 GHz)	3146A01309	3/10/05
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	6/23/05

5.1.3 CONDUCTED TEST DATA

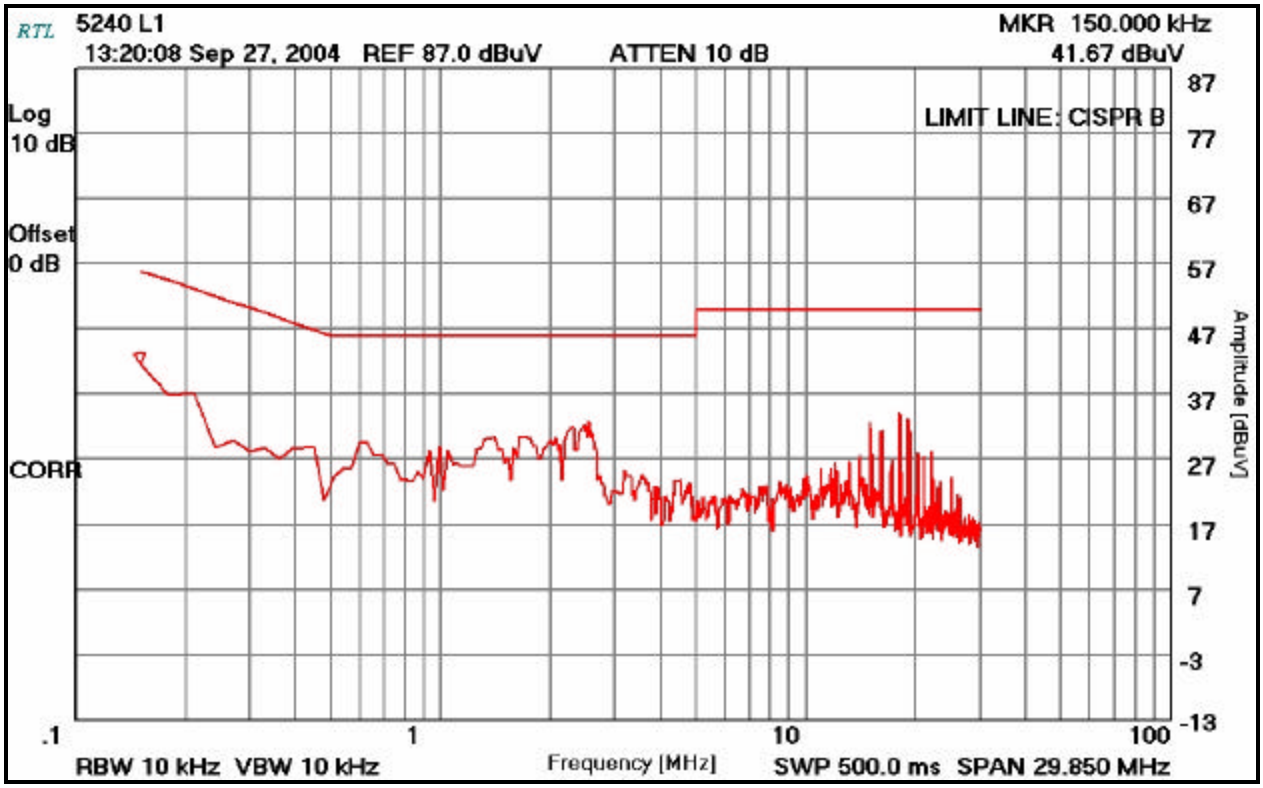
PLOT 5-1: CONDUCTED TEST DATA; MODE TX, CHANNEL 1, NEUTRAL SIDE (LINE 1)



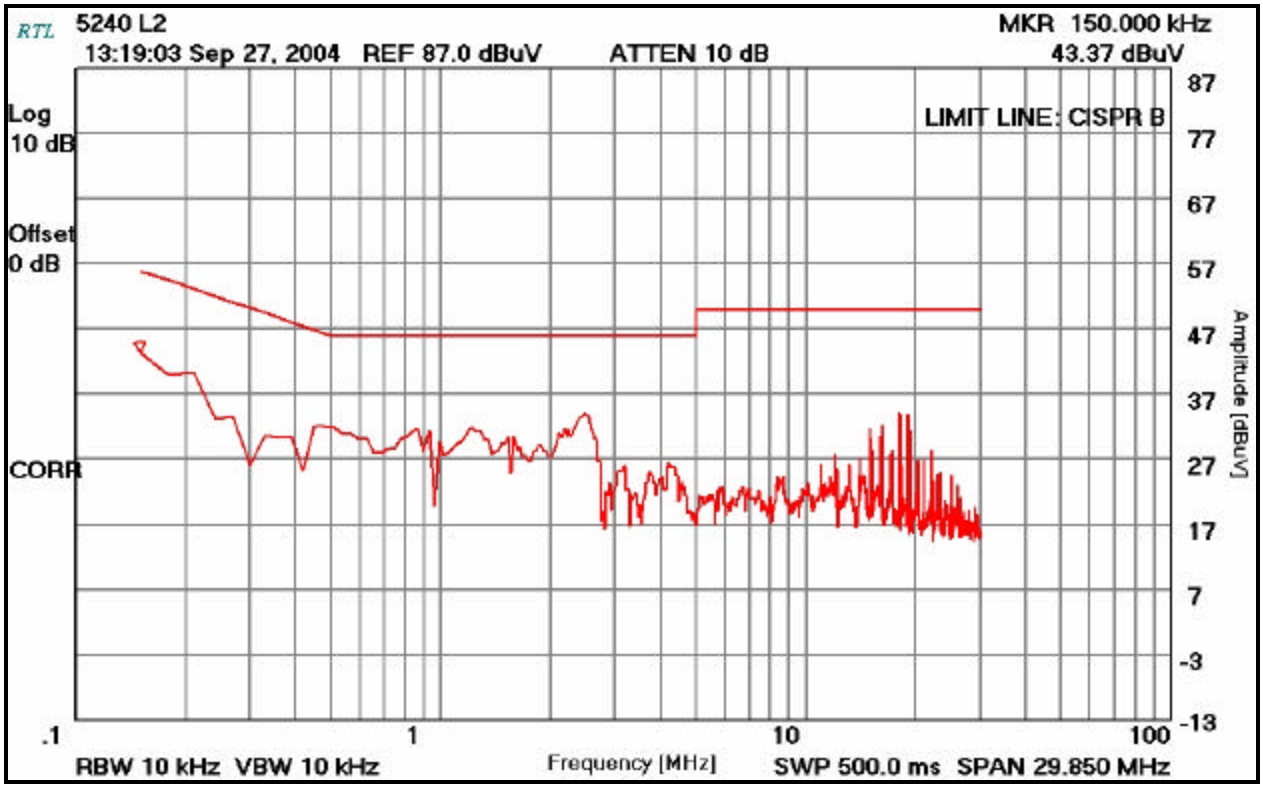
PLOT 5-2: CONDUCTED TEST DATA; MODE TX, CHANNEL 1, HOT SIDE (LINE 2)



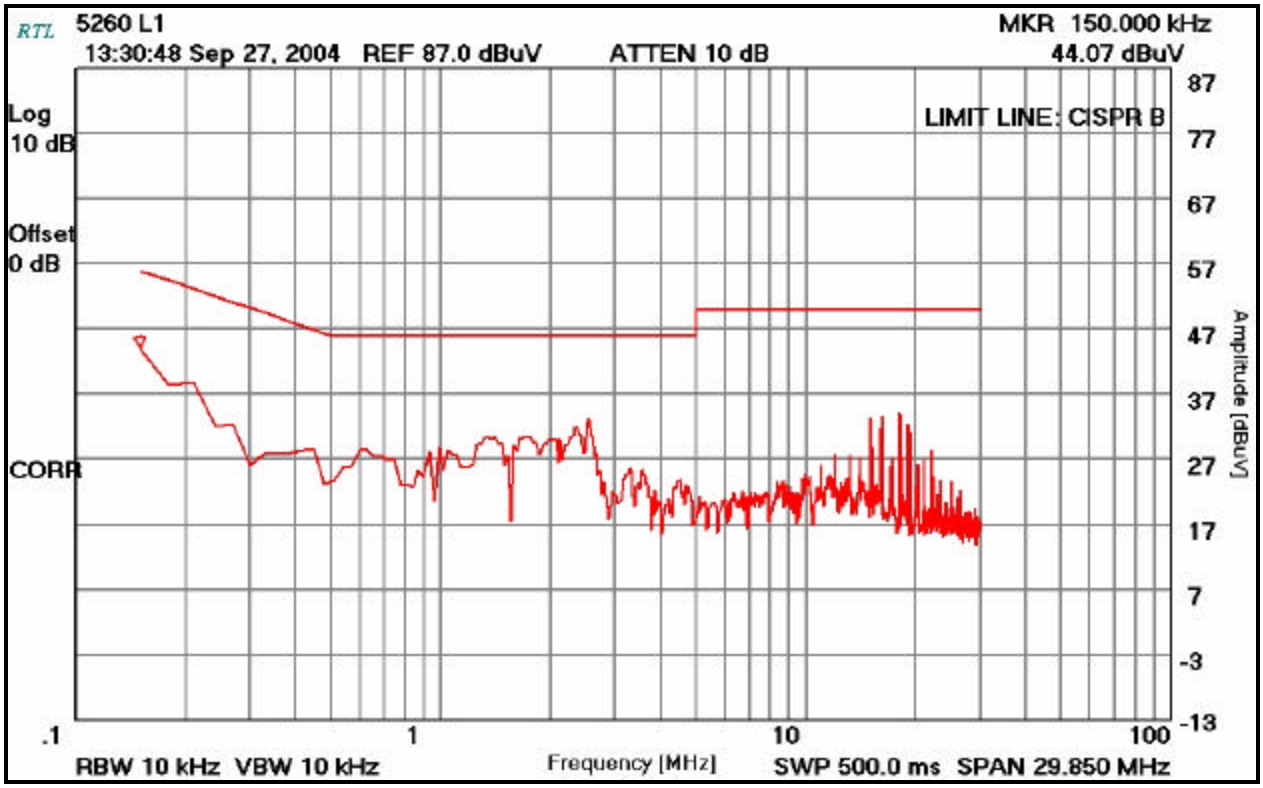
PLOT 5-3: CONDUCTED TEST DATA; MODE TX, CHANNEL 4, NEUTRAL SIDE (LINE 1)



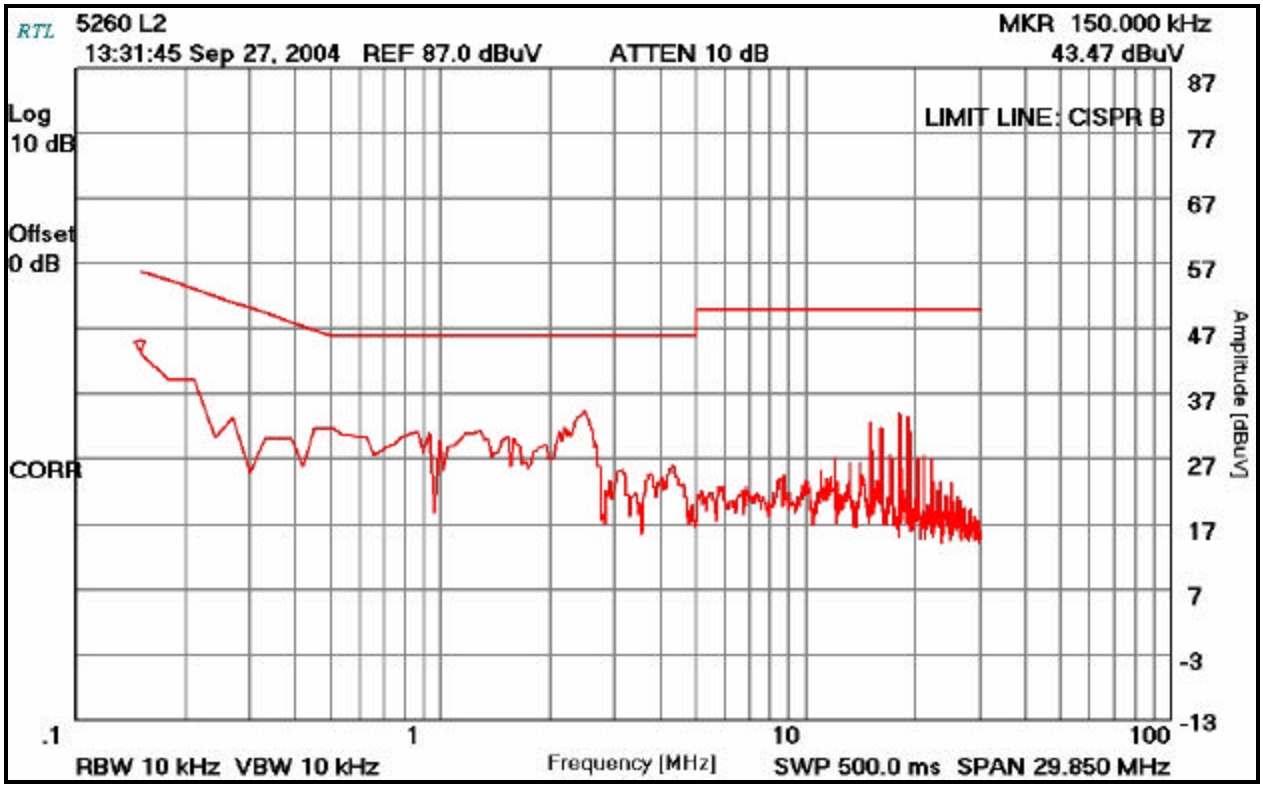
PLOT 5-4: CONDUCTED TEST DATA; MODE TX, CHANNEL 4, HOT SIDE (LINE 2)



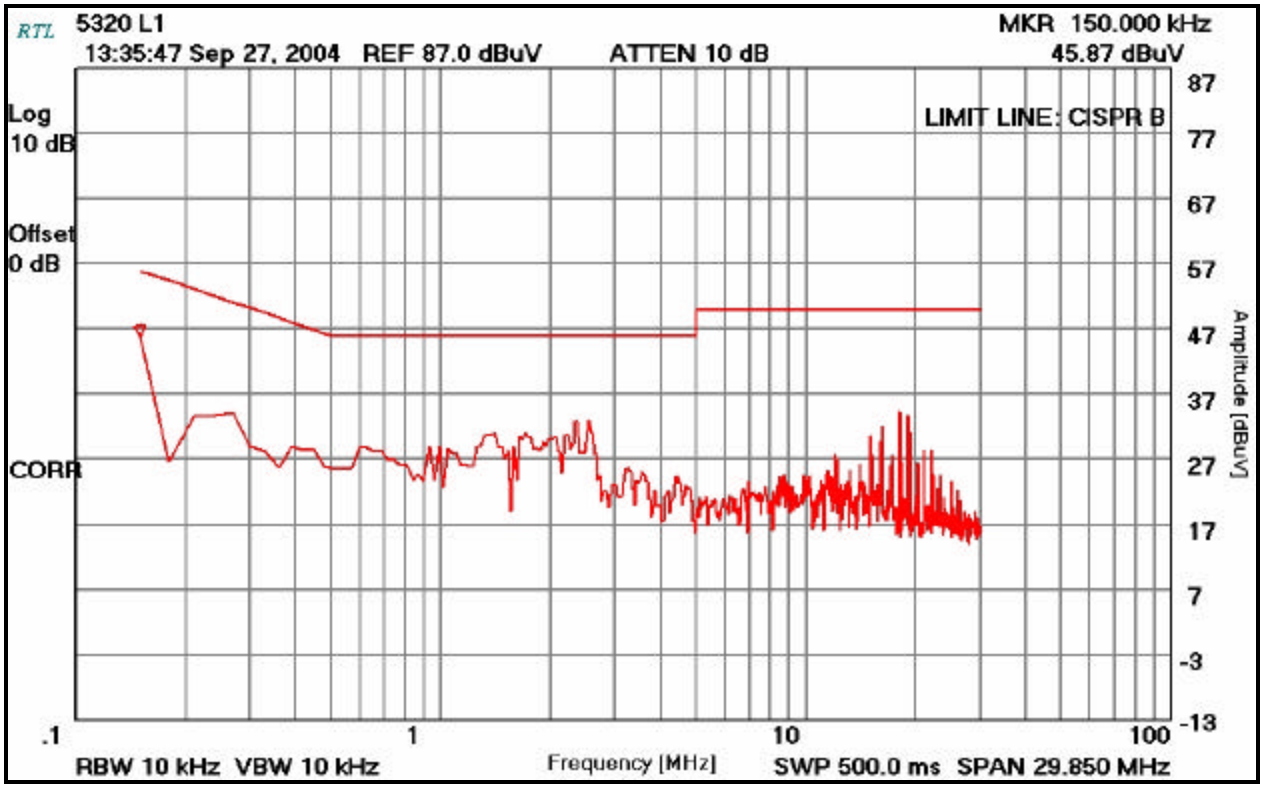
PLOT 5-5: CONDUCTED TEST DATA; MODE TX, CHANNEL 5, NEUTRAL SIDE (LINE 1)



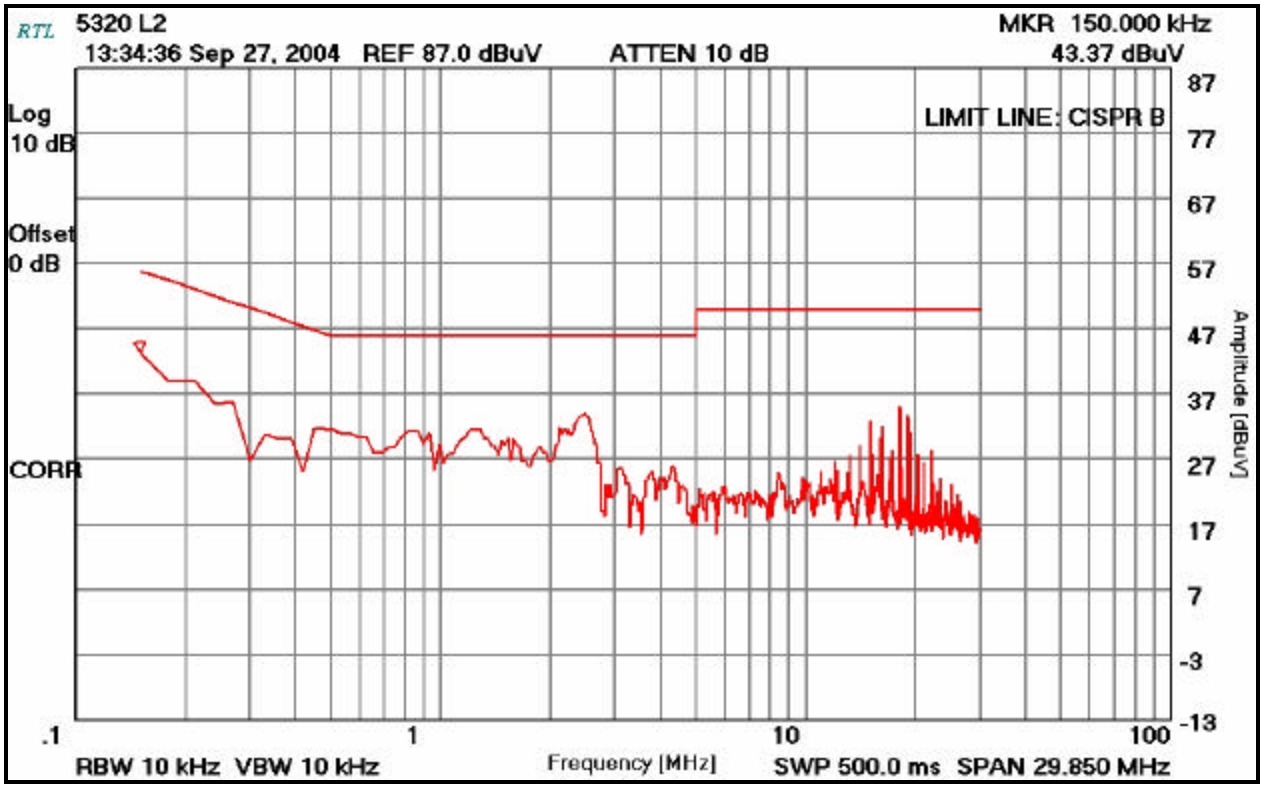
PLOT 5-6: CONDUCTED TEST DATA; MODE TX, CHANNEL 5, HOT SIDE (LINE 2)



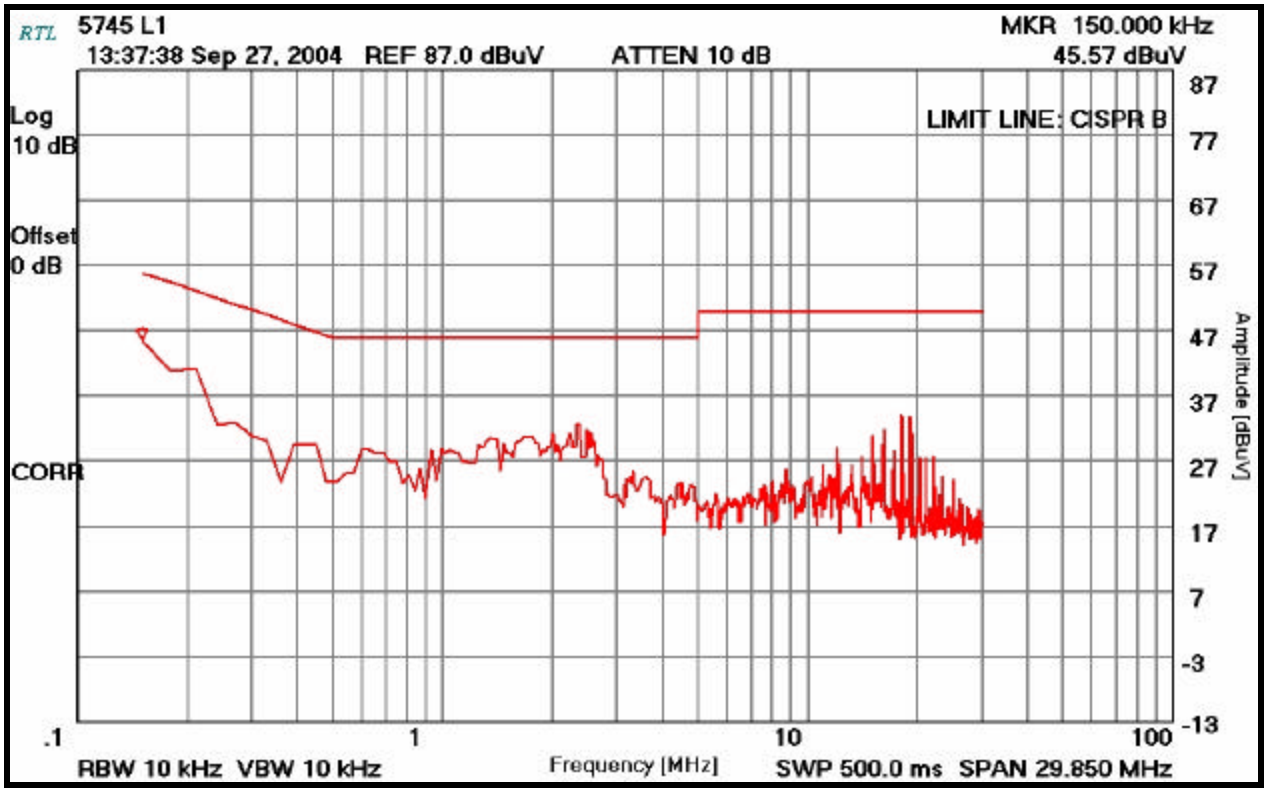
PLOT 5-7: CONDUCTED TEST DATA; MODE TX, CHANNEL 8, NEUTRAL SIDE (LINE 1)



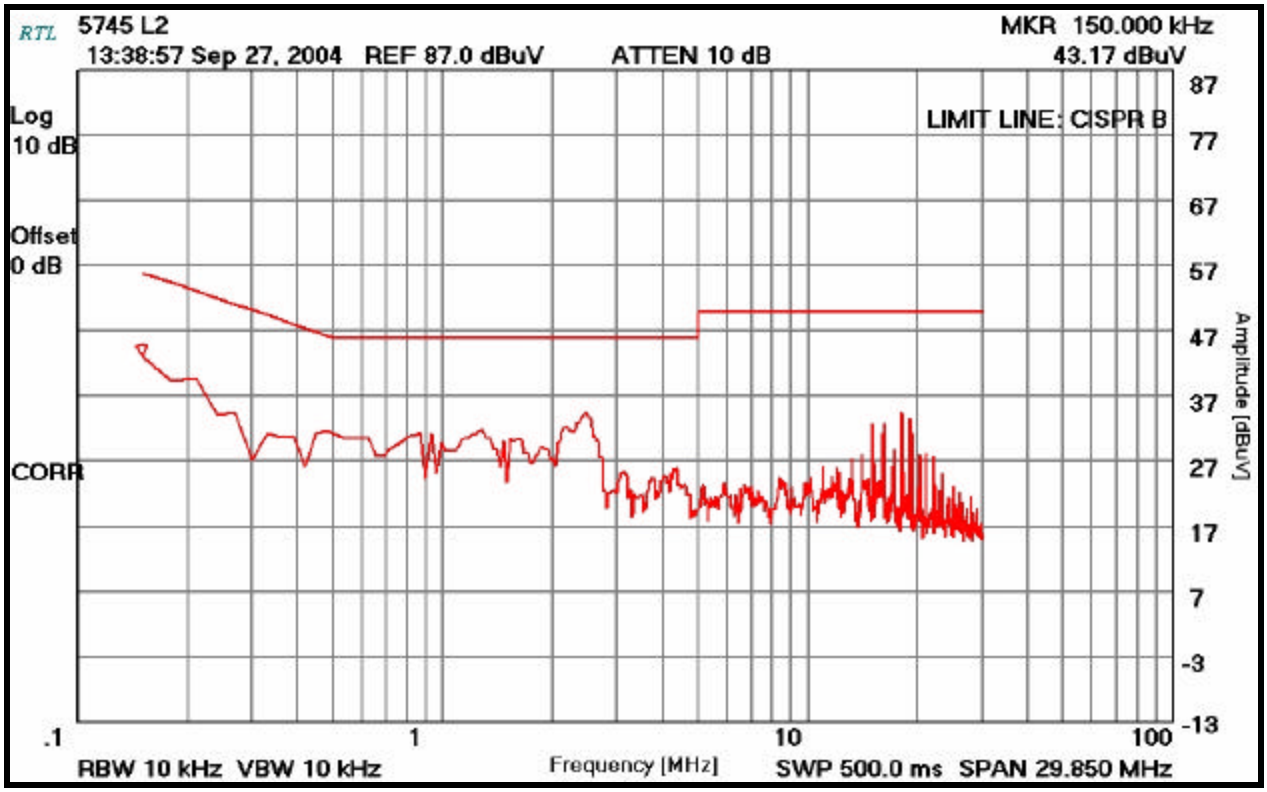
PLOT 5-8: CONDUCTED TEST DATA; MODE TX, CHANNEL 8, HOT SIDE (LINE 2)



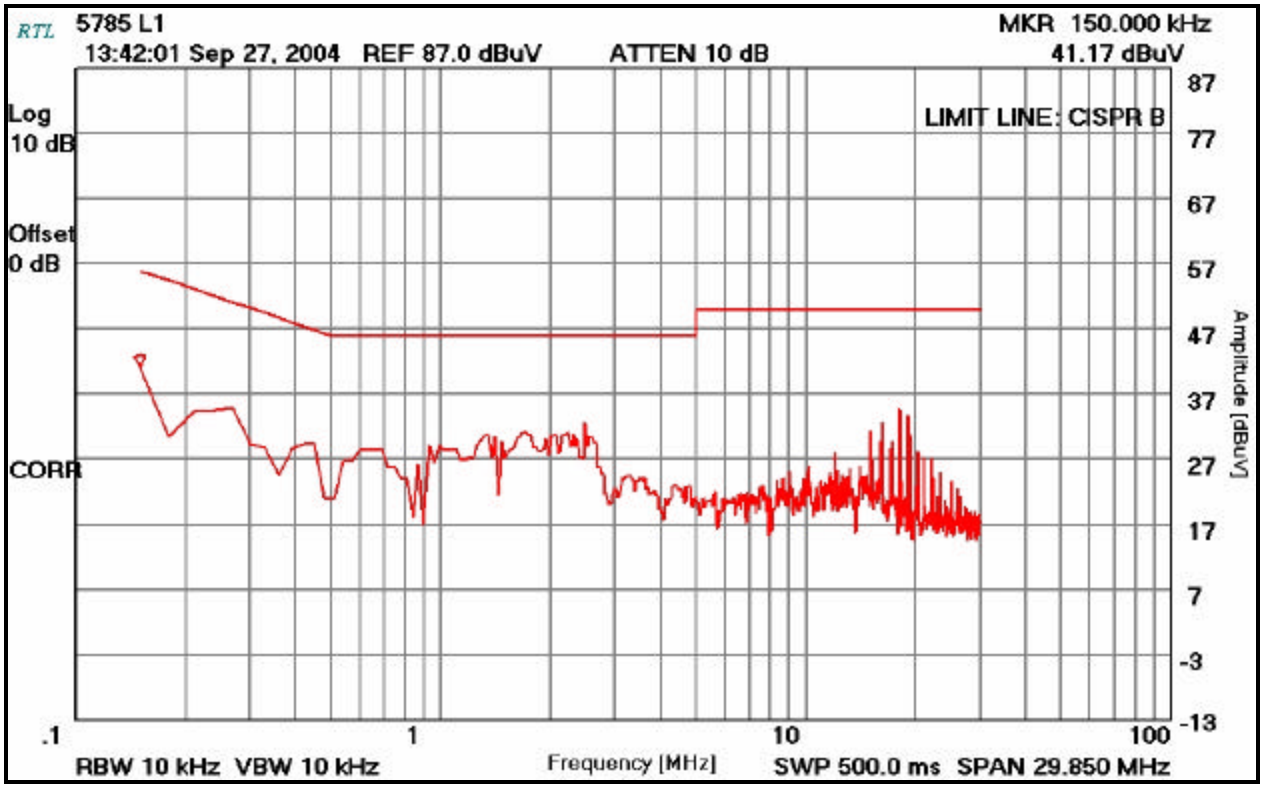
PLOT 5-9: CONDUCTED TEST DATA; MODE TX, CHANNEL 9, NEUTRAL SIDE (LINE 1)



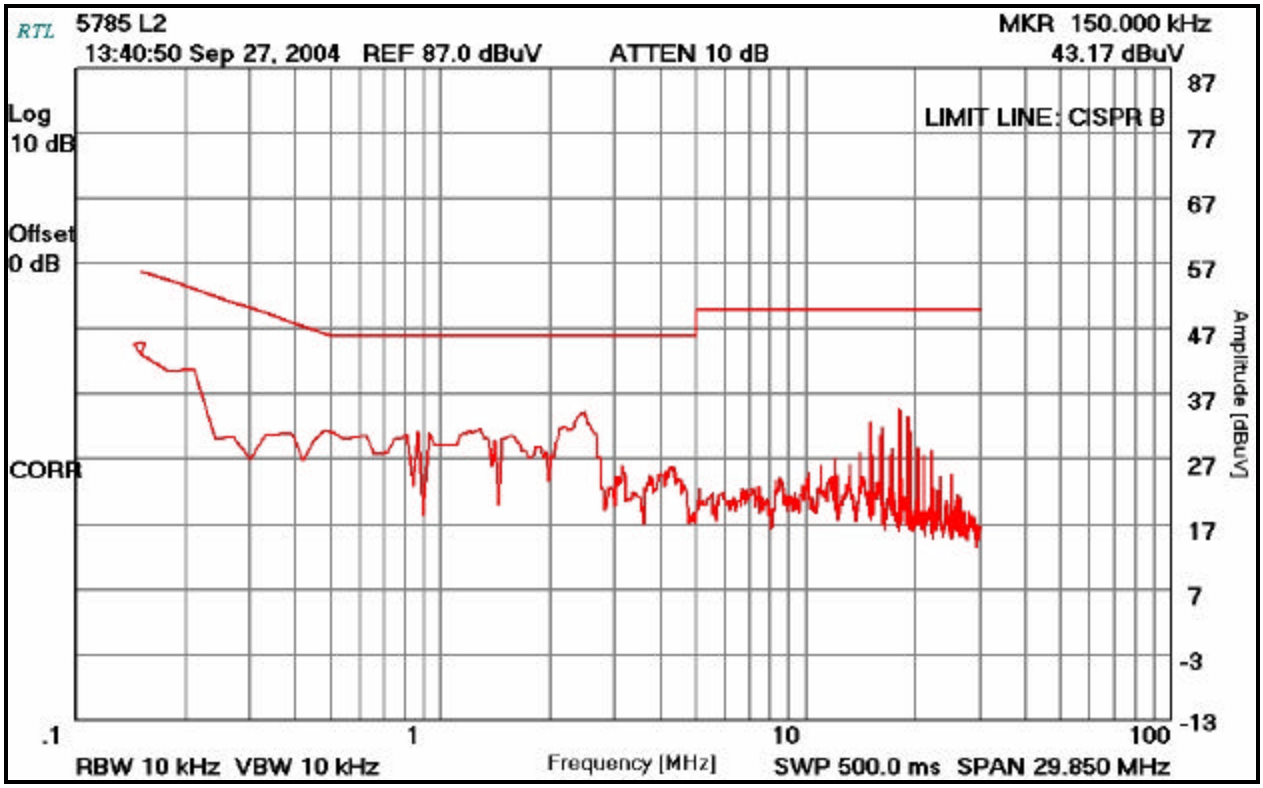
PLOT 5-10: CONDUCTED TEST DATA; MODE TX, CHANNEL 9, HOT SIDE (LINE 2)



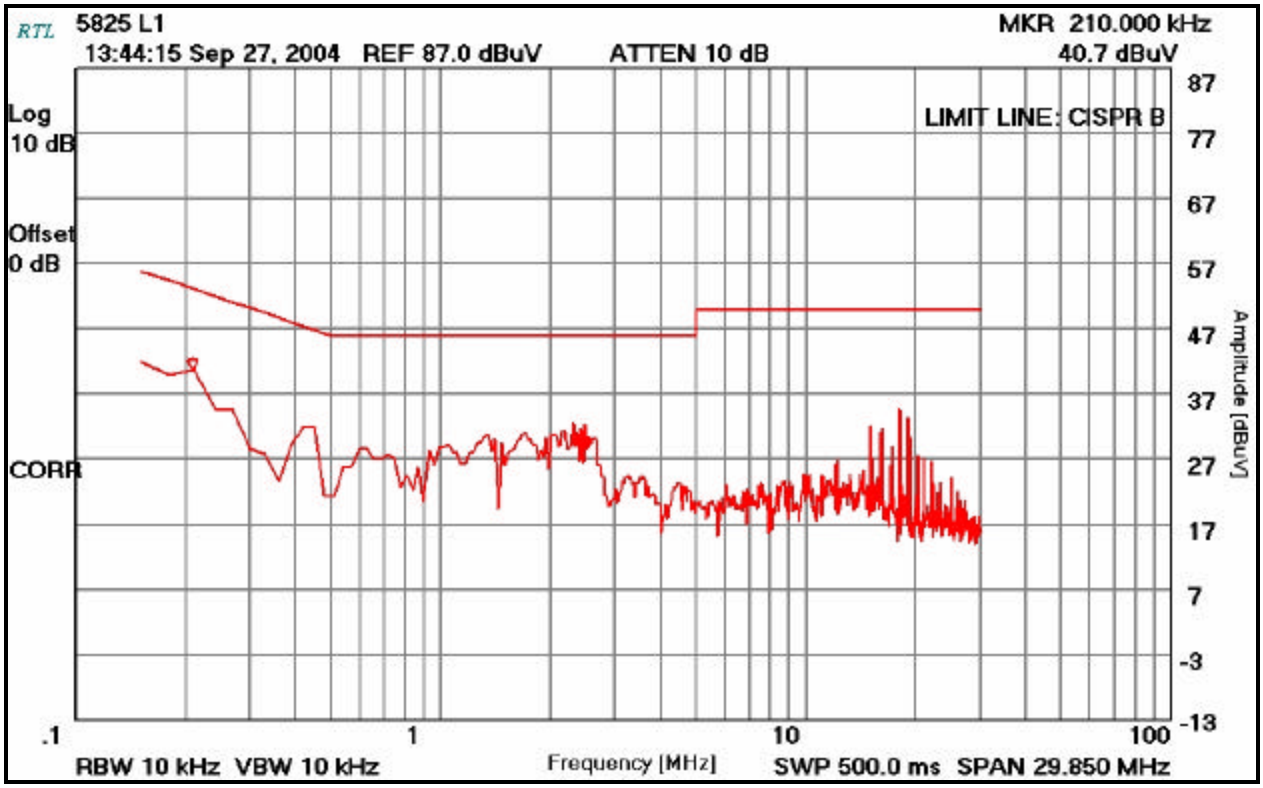
PLOT 5-11: CONDUCTED TEST DATA; MODE TX, CHANNEL 11, NEUTRAL SIDE (LINE 1)



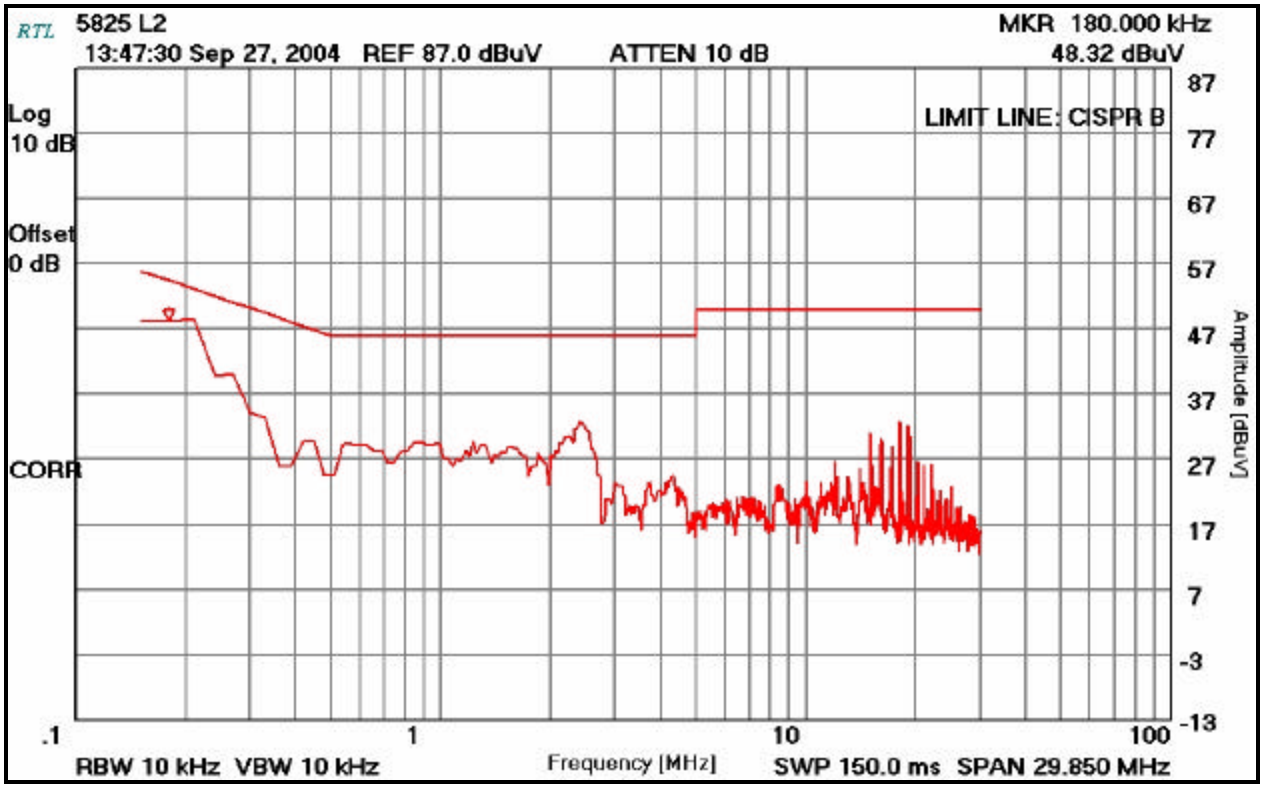
PLOT 5-12: CONDUCTED TEST DATA; MODE TX, CHANNEL 11, HOT SIDE (LINE 2)



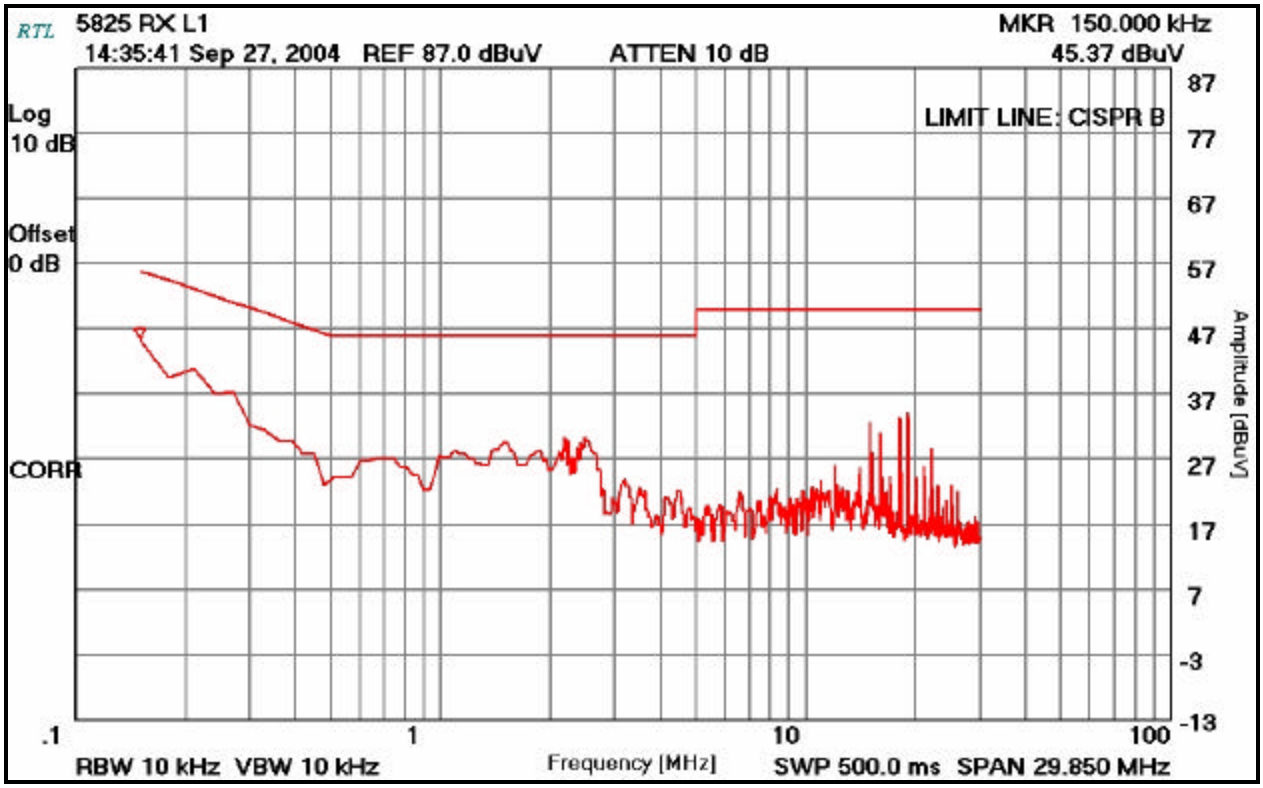
PLOT 5-13: CONDUCTED TEST DATA; MODE TX, CHANNEL 13, NEUTRAL SIDE (LINE 1)



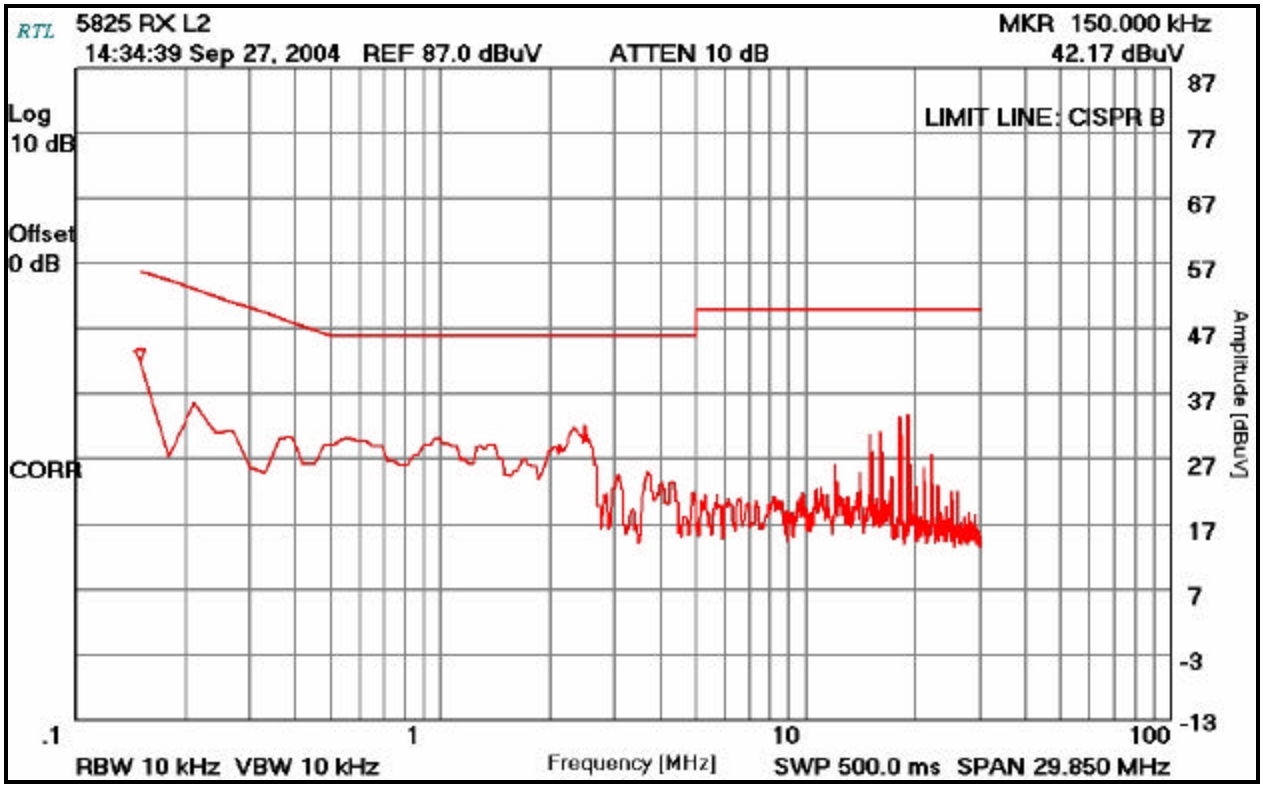
PLOT 5-14: CONDUCTED TEST DATA; MODE TX, CHANNEL 13, HOT SIDE (LINE 2)



PLOT 5-15: CONDUCTED TEST DATA; MODE RX, CHANNEL 13, NEUTRAL SIDE (LINE 1)



PLOT 5-16: CONDUCTED TEST DATA; MODE RX, CHANNEL 13, HOT SIDE (LINE 2)



TEST PERSONNEL:

Daniel W. Biggs	Daniel Biggs	September 27, 2004
EMC Test Engineer	Signature	Date Of Test

5.2 RADIATED EMISSIONS MEASUREMENT - §15.209; RSS-210 §6.2.1

5.2.1 LIMITS OF RADIATED EMISSIONS MEASUREMENT

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	2400/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

As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any circumstances of modulation.

5.2.2 RADIATED EMISSIONS MEASUREMENT TEST PROCEDURE

Before final measurements of radiated emissions were made on the open-field three/ten meter range, the EUT was scanned indoors at one and three meter distances. This was done in order to determine its emissions spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction, and frequency. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to ensure that maximum emission amplitudes were attained.

Final radiated emissions measurements were made on the three/ten-meter, open-field test site. The EUT was placed on a nonconductive turntable 0.8 meters above the ground plane. The spectrum was examined from 30 MHz to 2,000 MHz.

At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations. For frequencies between 30 and 1000 MHz, the spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. For emissions above 1000 MHz, emissions are measured using the average detector function with a minimum resolution bandwidth of 1 MHz. No video filter less than 10 times the resolution bandwidth was used. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

TABLE 5-2: RADIATED EMISSIONS TEST EQUIPMENT

RTL ASSET #	MANUFACTURER	MODEL	PART TYPE	SERIAL NUMBER	CALIBRATION DUE DATE
900772	EMCO	3161-02	Horn Antenna (2 - 4 GHz)	9804-1044	5/20/07
900323	EMCO	3160-7	Horn Antennas (8.2 - 12.4 GHz)	9605-1054	5/20/07
900356	EMCO	3160-08	Horn Antennas (12.4 – 18 GHz)	9607-1044	5/20/07
900321	EMCO	3161-03	Horn Antenna (4.0 - 8.2 GHz)	9508-1020	5/20/07
901053	Schaffner & Chase	CBL6112B	Bilog Antenna (20 MHz - 2 GHz)	2648	9/20/05
900932	Hewlett Packard	8449B	Microwave Preamplifier (1 - 26.5 GHz)	3008A00505	5/5/05
901020	Hewlett Packard	8564E	Portable Spectrum Analyzer (9 kHz - 40 GHz)	3943A01719	8/11/05

5.2.3 RADIATED EMISSIONS TEST RESULTS

5.2.3.1 FREQUENCY RANGE – BELOW 1000 MHZ (MODE RX)

TABLE 5-3: RADIATED EMISSIONS TEST RESULTS – BELOW 1000 MHZ (MODE RX)

Temperature: 68°F Humidity: 73%										
Emission Freq. (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pass/ Fail
133.330	Qp	H	30	1.0	32.4	-7.0	25.4	43.5	-18.1	Pass
133.330	Qp	V	0	1.0	34.8	-8.9	25.9	43.5	-17.6	Pass
200.010	Qp	H	100	1.0	47.2	-5.9	41.3	43.5	-2.2	Pass
200.010	Qp	V	30	1.0	40.0	-7.8	32.2	43.5	-11.3	Pass
204.660	Qp	H	120	1.0	42.8	-5.8	37.0	43.5	-6.5	Pass
205.800	Qp	V	90	2.0	41.2	-7.7	33.5	43.5	-10.0	Pass
231.860	Qp	H	0	1.0	40.0	-5.4	34.6	46.0	-11.4	Pass
266.665	Qp	V	0	1.0	31.6	-6.7	24.9	46.0	-21.1	Pass
395.641	Qp	H	0	1.0	40.9	-2.8	38.1	46.0	-7.9	Pass
399.998	Qp	V	0	1.0	43.3	-4.4	38.9	46.0	-7.1	Pass
466.663	Qp	V	0	1.0	40.4	-3.3	37.1	46.0	-8.9	Pass
499.981	Qp	H	90	1.0	44.4	-1.1	43.3	46.0	-2.7	Pass
666.648	Qp	V	0	1.0	39.8	0.0	39.8	46.0	-6.2	Pass
799.978	Qp	H	0	1.0	38.7	3.6	42.3	46.0	-3.7	Pass

TEST PERSONNEL:

Daniel W. Biggs	Daniel Biggs	September 30, 2004
EMC Test Engineer	Signature	Date Of Test

5.2.3.2 FREQUENCY RANGE – 1000 MHZ – 25000 MHZ

5.2.3.2.1 802.11A – 5150 - 5350 MHz

TABLE 5-4: RADIATED EMISSIONS HARMONICS/SPURIOUS CHANNEL 1 (TX FREQUENCY: 5180 MHZ)

Emission Frequency (MHz)	Analyzer Reading (dBuV) Peak	Analyzer Reading (dBuV) Average	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
5150	45.2	-	13.7	58.9	74.0	-15.1
5150	-	33.25	13.7	46.95	54.0	-7.05
10360	48.12		18.3	66.42	74.0	-7.58
10360	-	35.28	18.3	53.58	54.0	-0.42
5180	93.56	-	14.1	107.66	-	-
5180	-	82.72	14.1	96.73	-	-

PEAK: RES. =1 MHZ, VID= 1MHZ; AVERAGE: RES. =1 MHZ, VID= 10HZ

TABLE 5-5: RADIATED EMISSIONS HARMONICS/SPURIOUS CHANNEL 4 (TX FREQUENCY: 5240 MHZ)

Emission Frequency (MHz)	Analyzer Reading (dBuV) Peak	Analyzer Reading (dBuV) Average	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
10480	45.7	-	17.6	63.3	74.0	-10.7
10480	-	35.1	17.6	52.7	54.0	-1.3
5240	95.55	-	13.7	109.25	-	-
5240	-	83.22	13.7	96.92	-	-

PEAK: RES. =1 MHZ, VID= 1MHZ; AVERAGE: RES. =1 MHZ, VID= 10HZ

TABLE 5-6: RADIATED EMISSIONS HARMONICS/SPURIOUS CHANNEL 5 (TX FREQUENCY: 5260 MHZ)

Emission Frequency (MHz)	Analyzer Reading (dBuV) Peak	Analyzer Reading (dBuV) Average	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
10520	45.58	-	16.7	62.28	74.0	-11.72
10520	-	34.58	16.7	51.28	54.0	-2.72
5260	95.25	-	13.2	108.45	-	-
5260	-	84.4	13.2	97.6	-	-

PEAK: RES. =1 MHZ, VID= 1MHZ; AVERAGE: RES. =1 MHZ, VID= 10HZ

TABLE 5-7: RADIATED EMISSIONS HARMONICS/SPURIOUS CHANNEL 8 (TX FREQUENCY: 5320 MHZ)

Emission Frequency (MHz)	Analyzer Reading (dBuV) Peak	Analyzer Reading (dBuV) Average	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
10640	46.56	-	17.4	63.96	74.0	-10.04
10640	-	35.15	17.4	52.55	54.0	-1.45
5320	93.29	-	13.3	106.59	-	-
5320	-	81.97	13.3	95.27	-	-

PEAK: RES. =1 MHZ, VID= 1MHZ; AVERAGE: RES. =1 MHZ, VID= 10HZ

5.2.3.2.2 802.11A – 5725 – 5850 MHz

TABLE 5-8: RADIATED EMISSIONS HARMONICS/SPURIOUS CHANNEL 9 (TX FREQUENCY: 5745 MHZ)

Emission Frequency (MHz)	Analyzer Reading (dBuV) Peak	Analyzer Reading (dBuV) Average	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
11490	47.15	-	17.0	64.15	74.0	-9.85
11490	-	35.33	17.0	52.33	54.0	-1.67
5745	92.15	-	13.0	105.15	-	-
5745	-	82.61	13.0	95.61	-	-

PEAK: RES. =1 MHZ, VID= 1MHZ; AVERAGE: RES. =1 MHZ, VID= 10HZ

TABLE 5-9: RADIATED EMISSIONS HARMONICS/SPURIOUS CHANNEL 11 (TX FREQUENCY: 5785 MHZ)

Emission Frequency (MHz)	Analyzer Reading (dBuV) Peak	Analyzer Reading (dBuV) Average	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
11560	47.32	-	17.2	64.52	74.0	-9.48
11560	-	35.4	17.2	52.6	54.0	-1.4
11570	46.5	-	16.8	63.3	74.0	-10.7
11570	-	35.41	16.8	52.21	54.0	-1.79
5785	91.26	-	13.1	104.36	-	-
5785	-	80.75	13.1	93.85	-	-

PEAK: RES. =1 MHZ, VID= 1MHZ; AVERAGE: RES. =1 MHZ, VID= 10HZ

TABLE 5-10: RADIATED EMISSIONS HARMONICS/SPURIOUS CHANNEL 13 (TX FREQUENCY: 5825 MHZ)

Emission Frequency (MHz)	Analyzer Reading (dBuV) Peak	Analyzer Reading (dBuV) Average	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
11650	39.18	-	16.7	55.88	74.0	-18.12
11650	-	35.43	16.7	52.13	54.0	-1.87
5825	91.5	-	12.9	104.4	-	-
5825	-	80.7	12.9	93.6	-	-

PEAK: RES. =1 MHZ, VID= 1MHZ; AVERAGE: RES. =1 MHZ, VID= 10HZ

TEST PERSONNEL:

Daniel W. Biggs	Daniel Biggs	October 14, 2004
EMC Test Engineer	Signature	Date Of Test

6 TEST RESULTS FOR 802.11A – 5150 – 5350 MHZ

6.1 PEAK TRANSMIT POWER MEASUREMENT – FCC §15.407(A/1/2/3); RSS-210 §6.6.2(Q1)

6.1.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

Frequency Band	Limit
5.15-5.25GHz	The lesser of 50 mW (17 dBm) or 4 dBm+10logB
5.25-5.35GHz	The lesser of 250 mW (24 dBm) or 11 dBm+10logB
5.725-5.825GHz	The lesser of 1 W (30 dBm) or 17 dBm+10logB

6.1.2 PEAK TRANSMIT POWER MEASUREMENT TEST PROCEDURE

The EUT was connected to a power meter.

TABLE 6-1: PEAK TRANSMIT POWER MEASUREMENT TEST EQUIPMENT

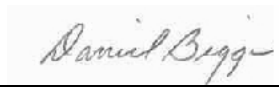
RTL ASSET #	MANUFACTURER	MODEL	PART TYPE	SERIAL NUMBER	CALIBRATION DUE DATE
901184/ 901186	Agilent	E4416A/E9323A	Power Meter / Sensor	GB41050573/ US420.52510380	07/30/04

6.1.3 PEAK TRANSMIT POWER TEST DATA

TABLE 6-2: POWER OUTPUT TEST DATA - 802.11A

FREQUENCY (MHZ)	CHANNEL	PEAK POWER CONDUCTED OUTPUT (dBm)
5180	1	-2.1
5240	4	-6.0
5260	6	13.5
5320	8	13.9
5210 (Turbo)	1 (Turbo)	13.8

TEST PERSONNEL:



Daniel W. Biggs		October 1, 2004
EMC Test Engineer	Signature	Date Of Test

6.2 PEAK POWER EXCURSION MEASUREMENT – FCC §15.407(A)(6)

6.2.1 LIMITS OF PEAK POWER EXCURSION

Frequency Band	Limit
5.15-5.25 GHz	13 dB
5.25-5.35 GHz	13 dB
5.725-5.825 GHz	13 dB

6.2.2 PEAK POWER EXCURSION MEASUREMENT TEST PROCEDURE

1. The transmit output was connected to a spectrum analyzer.
2. Span was set to the entire emission bandwidth of signal.
3. Using peak detector and max hold function for trace A, set RBW to 1 MHz and VBW to 3,MHz. Set for trace B, RBW to 1 MHz and VBW to 300 kHz.
4. Record the largest difference between trace A and trace B in any 1 MHz band on any frequency.

TABLE 6-3: PEAK POWER EXCURSION MEASUREMENT TEST EQUIPMENT

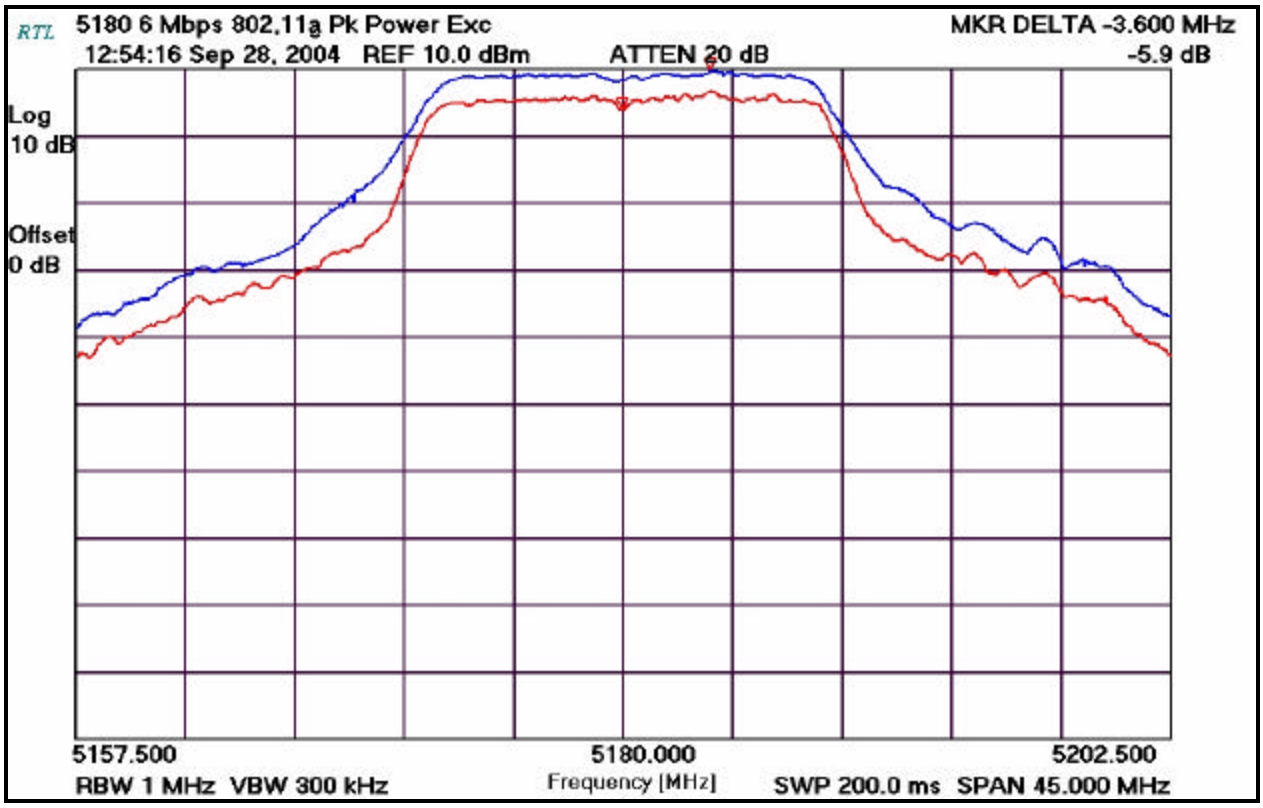
RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz – 22 GHz)	3138A07771	6/23/05

6.2.3 PEAK POWER EXCURSION TEST DATA

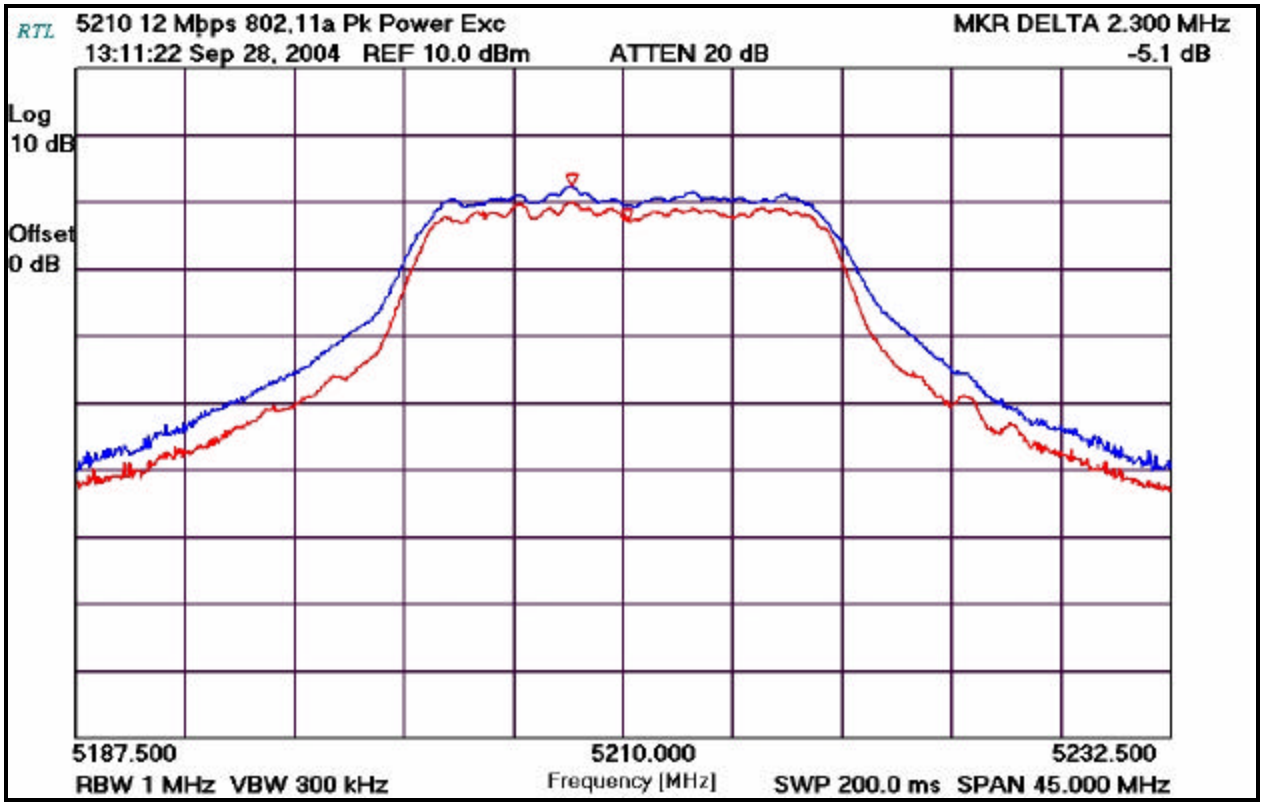
TABLE 6-4: PEAK POWER EXCURSION TEST DATA

Channel	Frequency (MHz)	Peak Power Excursion (dB)	Peak to Avg Excursion Limit (dB)	Pass/Fail
1	5180	5.9	13.0	Pass
4	5240	5.3	13.0	Pass
6	5460	5.2	13.0	Pass
8	5320	5.6	13.0	Pass
1 (Turbo)	5210 (Turbo)	5.1	13.0	Pass

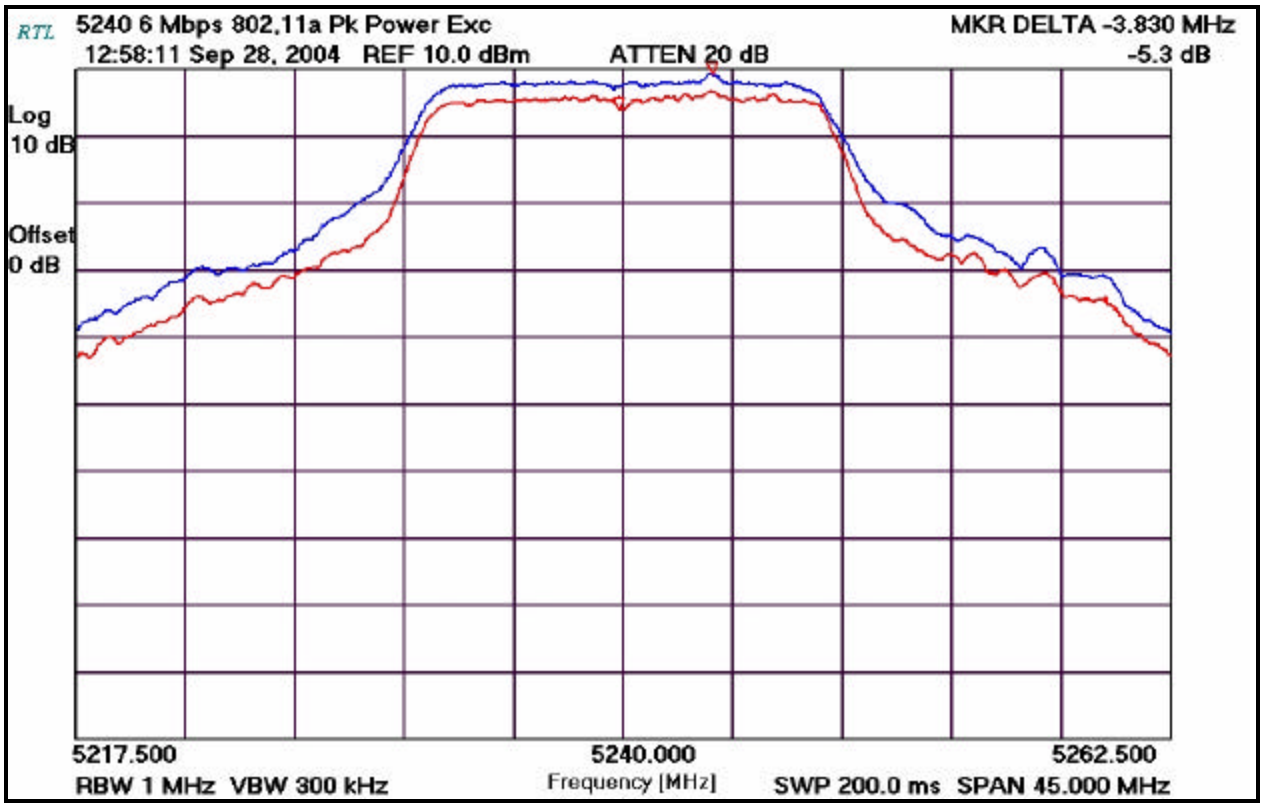
PLOT 6-1: PEAK POWER EXCURSION: CHANNEL 1 (5180 MHZ – 6 MB/S)



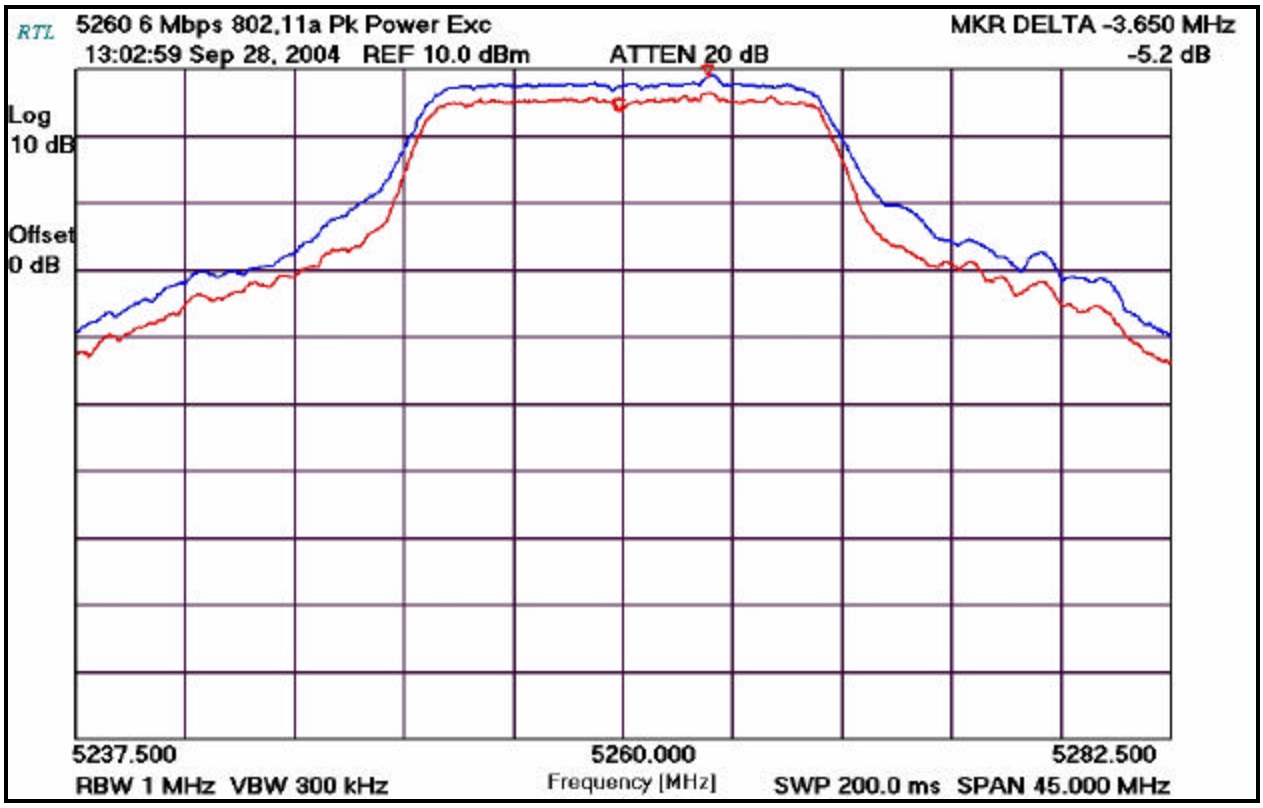
PLOT 6-2: PEAK POWER EXCURSION: CHANNEL 1 TURBO (5210 MHZ – 12 MB/S)



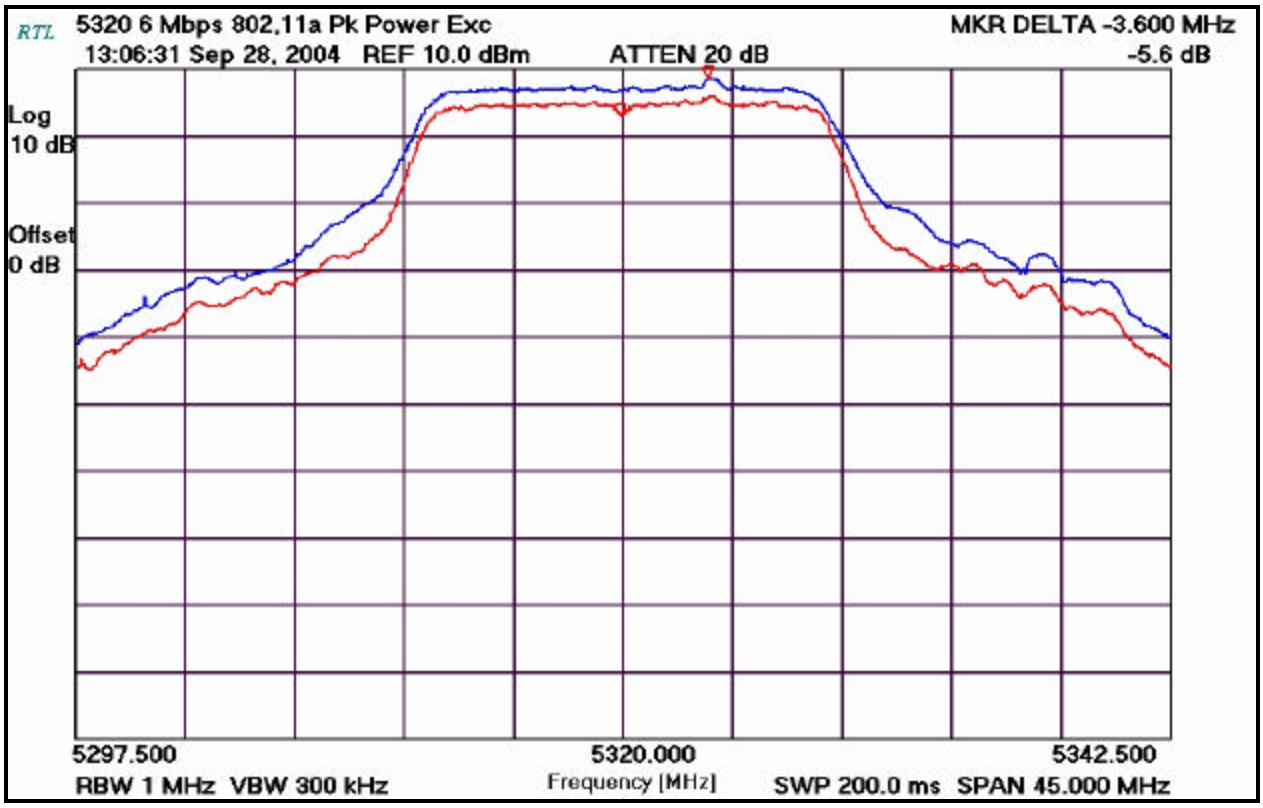
PLOT 6-3: PEAK POWER EXCURSION: CHANNEL 4 (5240 MHZ – 6 MB/S)



PLOT 6-4: PEAK POWER EXCURSION: CHANNEL 6 (5260 MHZ – 6 MB/S)



PLOT 6-5: PEAK POWER EXCURSION: CHANNEL 8 (5320 MHZ – 6 MB/S)



TEST PERSONNEL:

Daniel W. Biggs	Daniel Biggs	September 28, 2004
EMC Test Engineer	Signature	Date Of Test

6.3 PEAK POWER SPECTRAL DENSITY MEASUREMENT – FCC §15.407(A/1/2/3); RSS-210 §6.6.2(Q1)

6.3.1 LIMITS OF PEAK POWER SPECTRAL DENSITY

Frequency Band	Limit
5.15-5.25 GHz	4 dBm
5.25-5.35 GHz	11 dBm
5.725-5.825 GHz	17 dBm

6.3.2 PEAK POWER SPECTRAL DENSITY MEASUREMENT TEST PROCEDURE

1. The transmitter output was connected to a spectrum analyzer
2. RBW was set to 1 MHz and VBW to 3 MHz. The highest level PPSD was measured across the emission in any 1 MHz band.

TABLE 6-5: PEAK POWER SPECTRAL DENSITY MEASUREMENT TEST EQUIPMENT

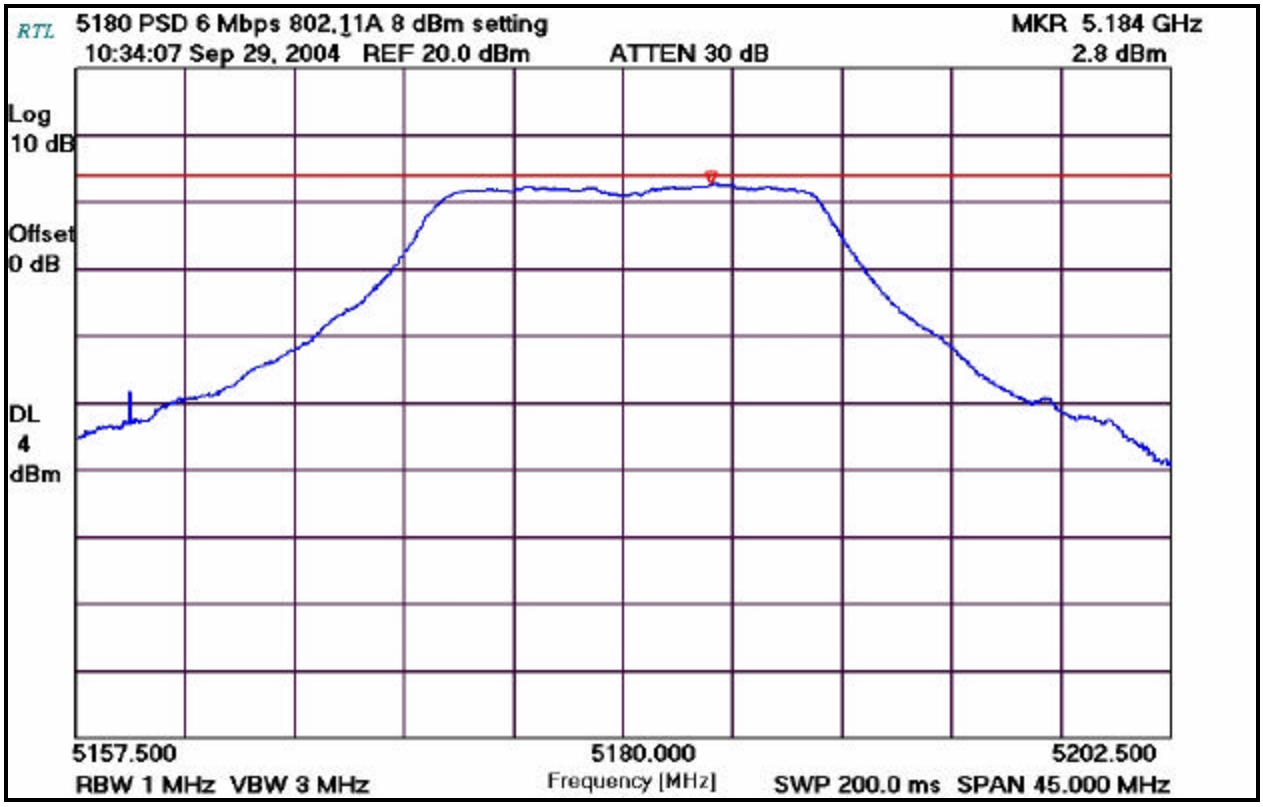
RTL ASSET #	MANUFACTURER	MODEL	PART TYPE	SERIAL NUMBER	CALIBRATION DUE DATE
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz – 22 GHz)	3138A07771	6/23/05

6.3.3 PEAK POWER SPECTRAL DENSITY TEST DATA

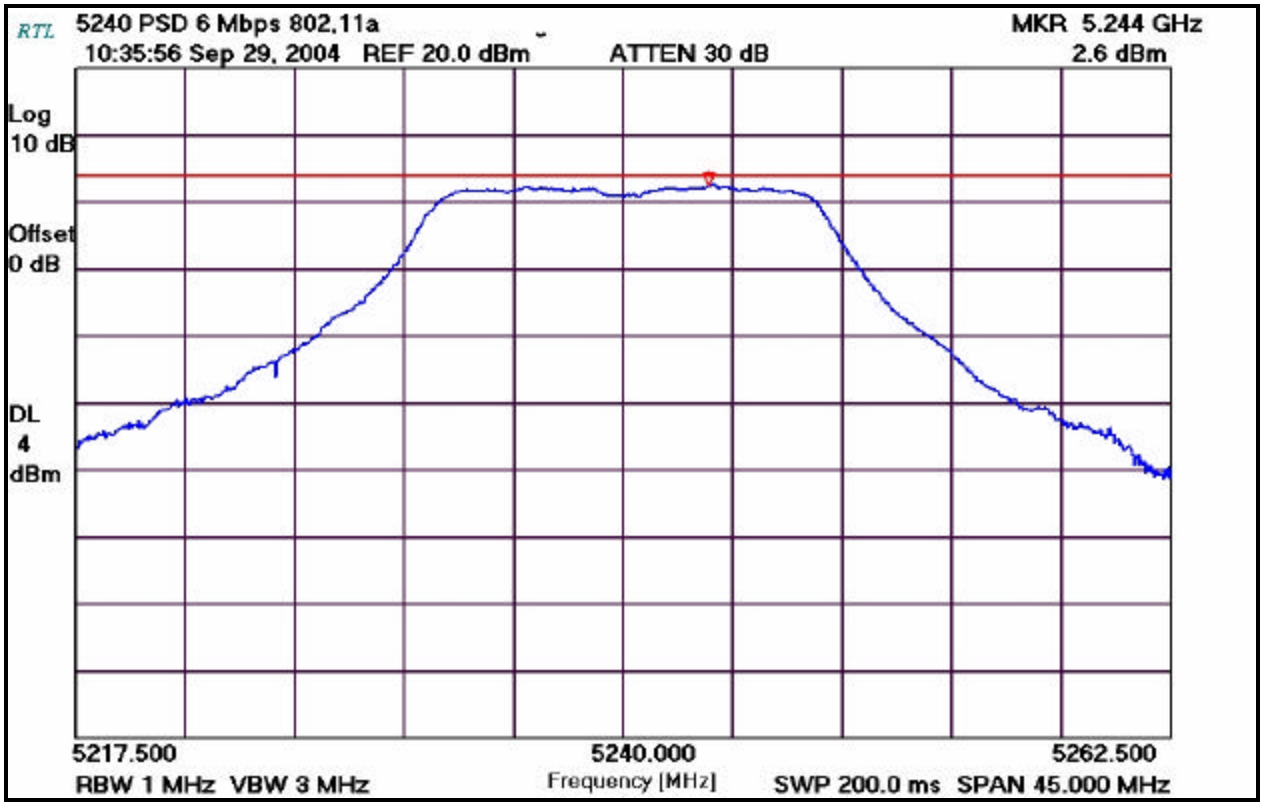
TABLE 6-6: PEAK POWER SPECTRAL DENSITY TEST DATA

Channel	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)	Maximum Limit (dBm)	Pass/Fail
1	5180	2.8	4	Pass
4	5240	2.6	4	Pass
6	5460	9.5	11	Pass
8	5320	9.3	11	Pass
1 (Turbo)	5210 (Turbo)	-7.2	4	Pass

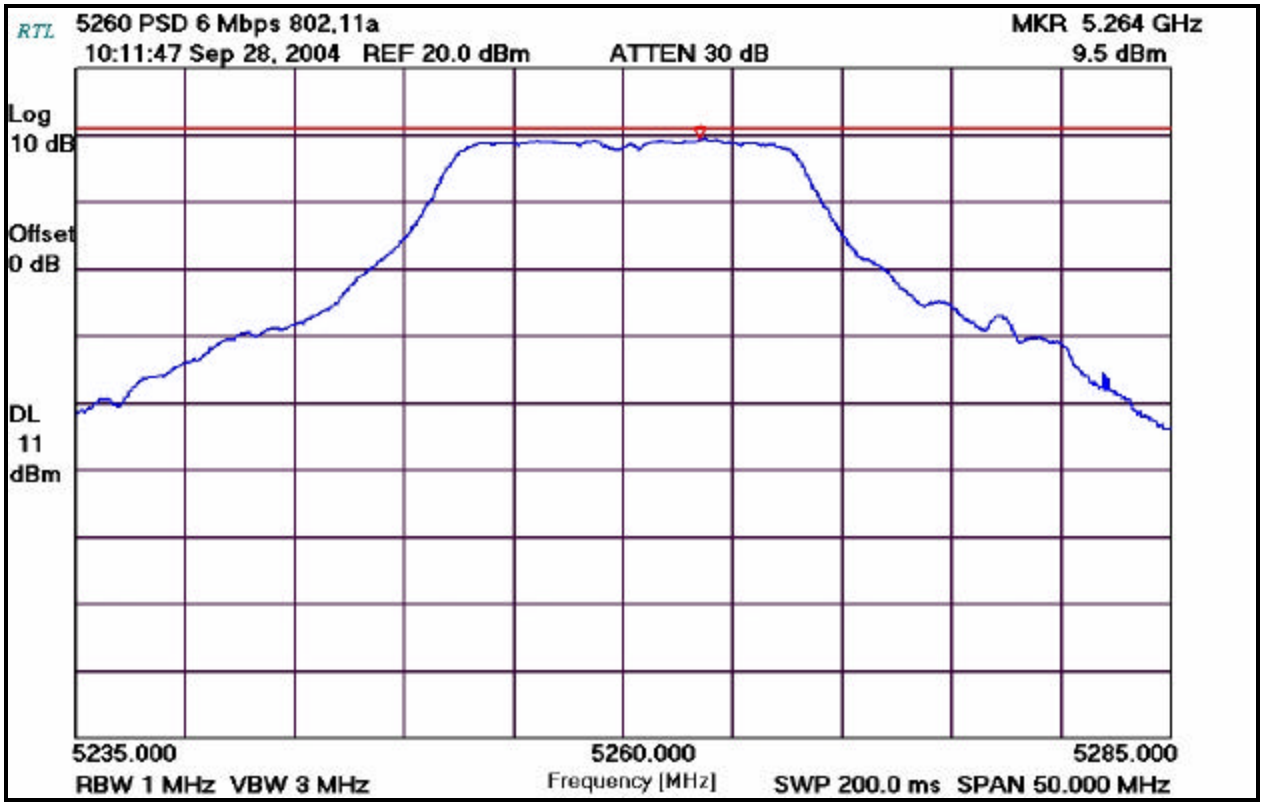
PLOT 6-6: PEAK POWER SPECTRAL DENSITY: CHANNEL 1 (5180 MHZ – 6 MB/S)



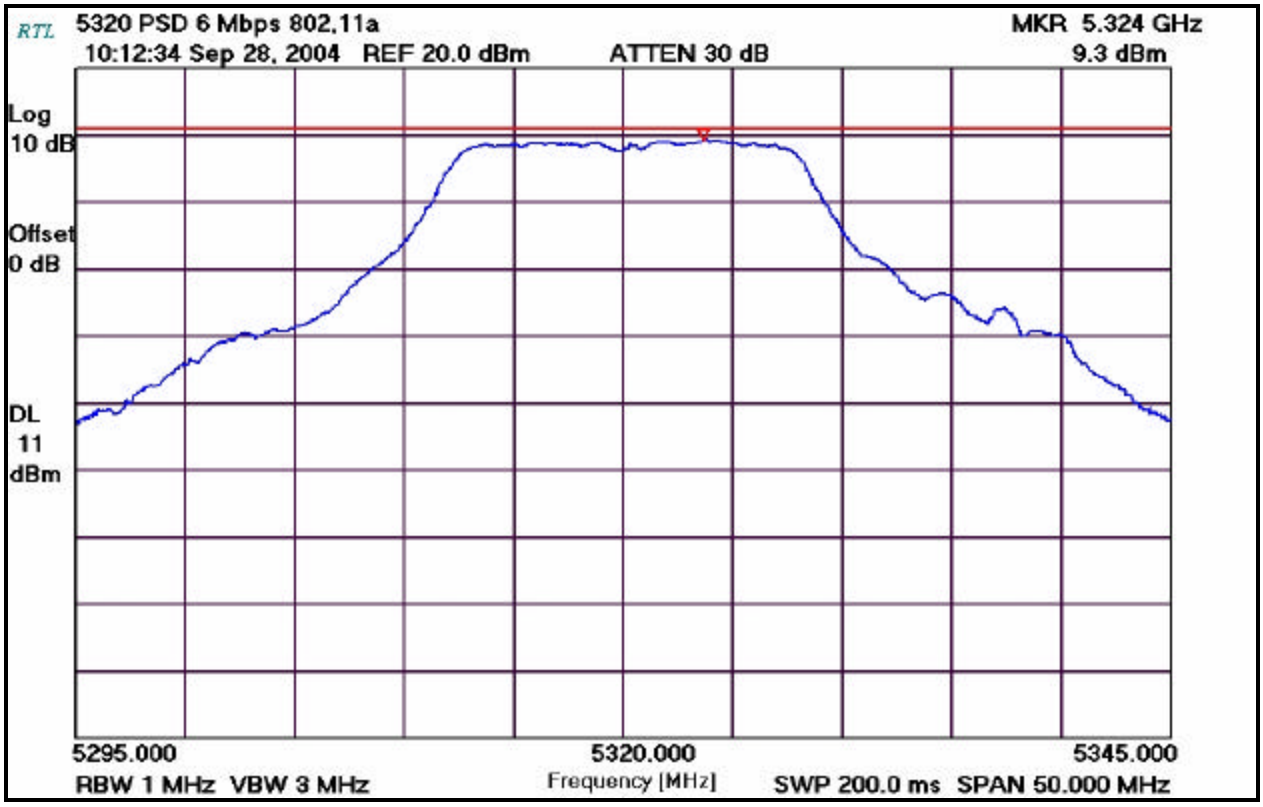
PLOT 6-7: PEAK POWER SPECTRAL DENSITY: CHANNEL 4 (5240 MHZ – 6 MB/S)



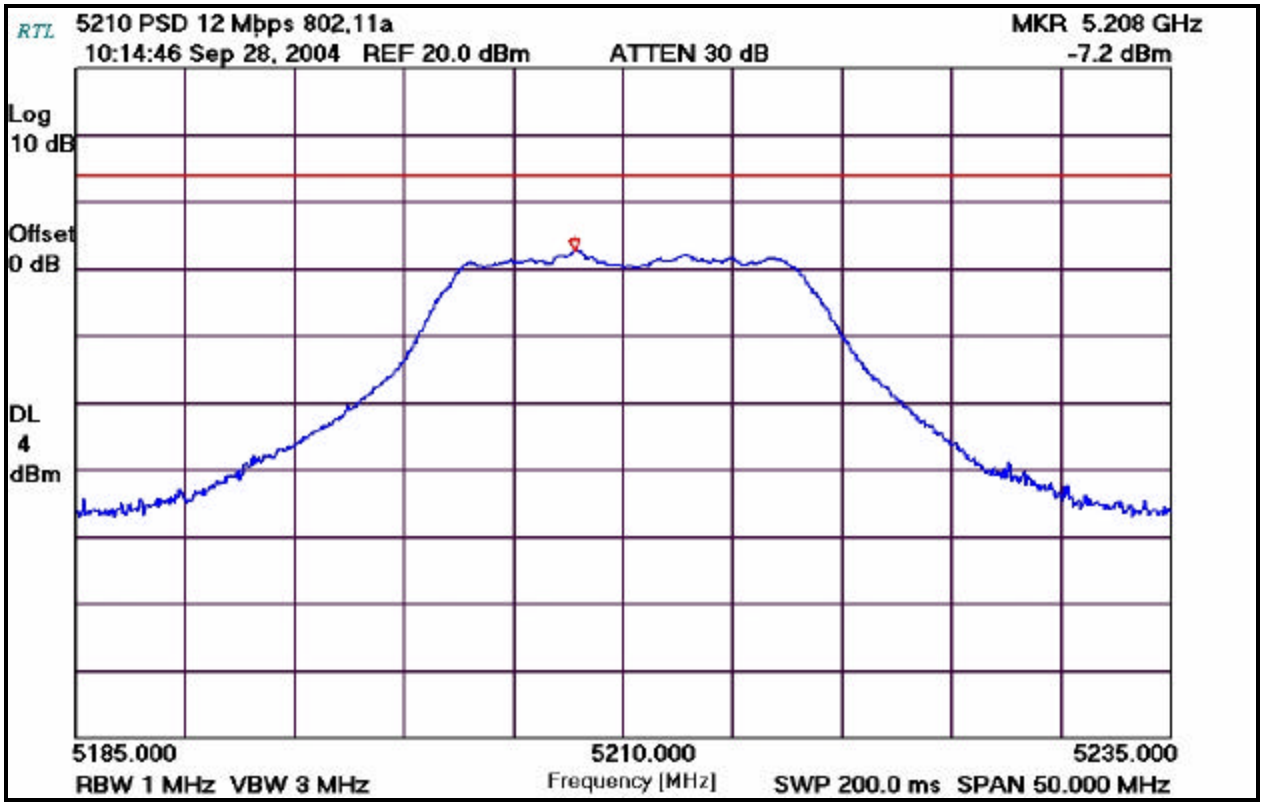
PLOT 6-8: PEAK POWER SPECTRAL DENSITY: CHANNEL 6 (5260 MHZ – 6 MB/S)



PLOT 6-9: PEAK POWER SPECTRAL DENSITY: CHANNEL 8 (5320 MHZ – 6 MB/S)



PLOT 6-10: PEAK POWER SPECTRAL DENSITY: CHANNEL 1 TURBO (5210 MHZ – 6 MB/S)



Daniel W. Biggs	Daniel Biggs	September 28, 2004
EMC Test Engineer	Signature	Date Of Test

6.4 FREQUENCY STABILITY MEASUREMENT – FCC §15.407(G)

6.4.1 LIMITS OF FREQUENCY STABILITY

The frequency tolerance of the CW shall be maintained within +/-0.02% of the operating frequency over a temperature variation of -30° C to 50° C at normal supply voltage, and for a variation in the primary supply voltage from 85%-115% of the rated supply voltage at a temperature of 20° C.

6.4.2 FREQUENCY STABILITY MEASUREMENT TEST PROCEDURE

1. The EUT was placed inside temperature chamber and supplied by nominal DC power.
2. The EUT was connected to spectrum analyzer which was located outside of test chamber.
3. The temperature was set to the high limit and the EUT was allowed to stabilize with power off for a period of 30 minutes.
4. The EUT was then powered up and the frequency of the CW was measured at intervals of 2, 5, and 10 minutes.
5. Steps 3 and 4 were repeated at the lower temperature limit of 20 degrees C.
6. The chamber was then allowed to stabilize at a temperature of 20 degrees C for approximately 30 minutes. The EUT supply voltage was then adjusted to 85% and 115% of nominal and the CW frequency was again recorded.

TABLE 6-7: FREQUENCY STABILITY MEASUREMENT TEST EQUIPMENT

RTL ASSET #	MANUFACTURER	MODEL	PART TYPE	SERIAL NUMBER	CALIBRATION DUE DATE
901020	Hewlett Packard	8564E	Portable Spectrum Analyzer (9 kHz - 40 GHz)	3943A01719	8/11/05

6.4.3 FREQUENCY STABILITY TEST DATA

TABLE 6-8: FREQUENCY STABILITY TEST DATA

Operating Frequency: 5180 MHz							
Temp (ºC)	Supply (VDC)	2 minutes		5 minutes		10 minutes	
		MHz	%	MHz	%	MHz	%
50	93.5	5180.0386	7.4517E-04	5180.0427	8.2432E-04	5180.0427	8.2432E-04
	110.0	5180.0427	8.2432E-04	5180.0427	8.2432E-04	5180.0427	8.2432E-04
	126.5	5180.0427	8.2432E-04	5180.0427	8.2432E-04	5180.0427	8.2432E-04
40	93.5	5180.0369	7.1235E-04	5180.0369	7.1235E-04	5180.0369	7.1235E-04
	110.0	5180.0352	6.7953E-04	5180.0361	6.9691E-04	5180.0368	7.1042E-04
	126.5	5180.0302	5.8301E-04	5180.0327	6.3127E-04	5180.0344	6.6409E-04
30	93.5	5180.0353	6.8146E-04	5180.0328	6.3320E-04	5180.0311	6.0038E-04
	110.0	5180.0302	5.8301E-04	5180.0302	5.8301E-04	5180.0302	5.8301E-04
	126.5	5180.0302	5.8301E-04	5180.0302	5.8301E-04	5180.0302	5.8301E-04
20	93.5	5180.0444	8.5714E-04	5180.0436	8.4169E-04	5180.0436	8.4169E-04
	110.0	5180.0503	9.7103E-04	5180.0486	9.3822E-04	5180.0461	8.8995E-04
	126.5	5180.0600	1.1583E-03	5180.0561	1.0830E-03	5180.0561	1.0830E-03
10	93.5	5180.0519	1.0019E-03	5180.0756	1.4594E-03	5180.0776	1.4980E-03
	110.0	5180.0776	1.4980E-03	5180.0769	1.4845E-03	5180.0769	1.4845E-03
	126.5	5180.0776	1.4980E-03	5180.0766	1.4787E-03	5180.0759	1.4652E-03
0	93.5	5180.0235	4.5367E-04	5180.0252	4.8648E-04	5180.0252	4.8648E-04
	110.0	5180.0247	4.7683E-04	5180.0302	5.8301E-04	5180.0302	5.8301E-04
	126.5	5180.0285	5.5019E-04	5180.0300	5.7915E-04	5180.0300	5.7915E-04
-10	93.5	5180.0250	4.8262E-04	5180.0255	4.9228E-04	5180.0255	4.9228E-04
	110.0	5180.0255	4.9228E-04	5180.0255	4.9228E-04	5180.0255	4.9228E-04
	126.5	5180.0255	4.9228E-04	5180.0255	4.9228E-04	5180.0255	4.9228E-04
-20	93.5	5180.0325	6.2741E-04	5180.0333	6.4285E-04	5180.0333	6.4285E-04
	110.0	5180.0340	6.5637E-04	5180.0342	6.6023E-04	5180.0342	6.6023E-04
	126.5	5180.0345	6.6602E-04	5180.0345	6.6602E-04	5180.0345	6.6602E-04
-30	93.5	5180.0315	6.0810E-04	5180.0325	6.2741E-04	5180.0325	6.2741E-04
	110.0	5180.0325	6.2741E-04	5180.0325	6.2741E-04	5180.0325	6.2741E-04
	126.5	5180.0342	6.6023E-04	5180.0342	6.6023E-04	5180.0342	6.6023E-04

Daniel W. Biggs — EMC Test Engineer | Signature | September 24, 2004 — Date Of Test