Figure 50-1
Peak Radiated Spurious Emission 15.247(c) High Mid Channel – Yagi Antenna 2nd Harmonic

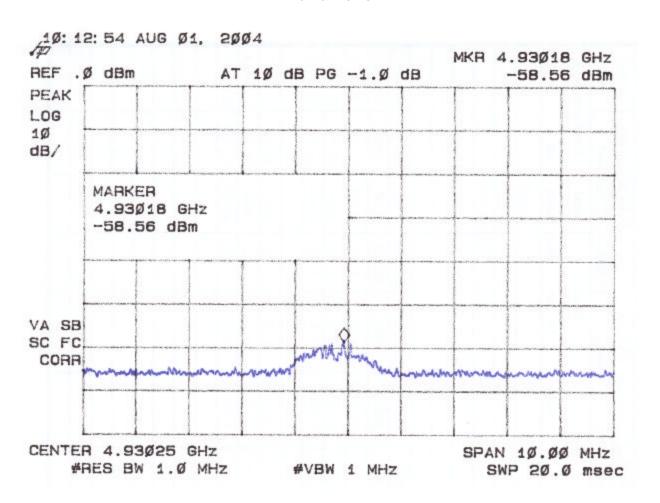


Figure 50-2
Peak Radiated Spurious Emission 15.247(c) High Mid Channel – Yagi Antenna
3rd Harmonic

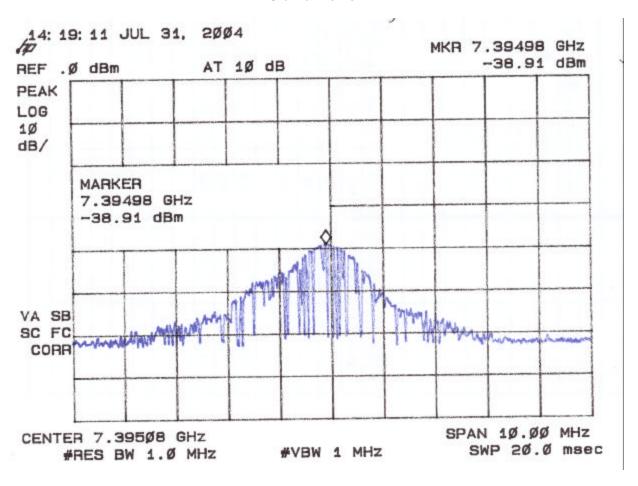


Figure 5p-1
Peak Radiated Spurious Emission 15.247(c) High Channel – Yagi Antenna
2nd Harmonic

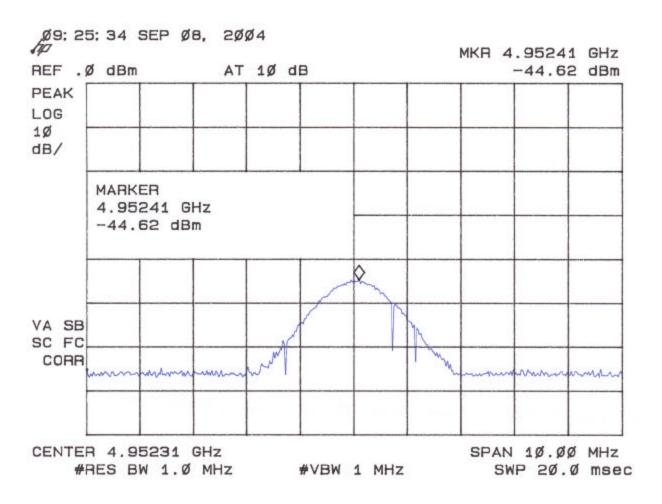


Figure 5p-2
Peak Radiated Spurious Emission 15.247(c) High Channel – Yagi Antenna
3rd Harmonic

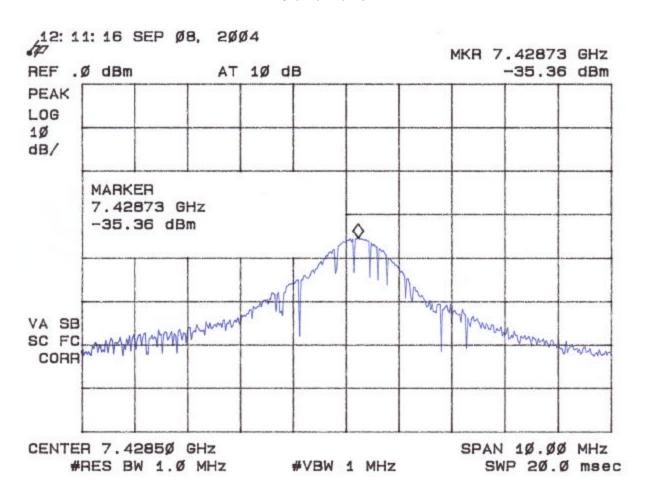


Table 4q. PEAK RADIATED SPURIOUS EMISSIONS Low Channel Corner Reflector Antenna

Freq. (MHz)	Test Data (dBm) @ 3m	AF + CA - AMP (dB)	Results (uV/m) 3m	FCC Limits (uV/m)	MARGIN BELOW FCC Limits (dB)
2401.1	-10.79	31.9	2543781.2	-	-
4802.13	-45.68*	5.8	2272.3	5000.0	6.9
7203.13	-43.64* **	9.8	4571.5	254378.1	34.9

Table 4r. PEAK RADIATED SPURIOUS EMISSIONS Low Mid Channel Corner Reflector Antenna

Freq. (MHz)	Test Data (dBm) @ 3m	AF + CA - AMP (dB)	Results (uV/m) 3m	FCC Limits (uV/m)	MARGIN BELOW FCC Limits (dB)
4865.95	-47.68*	6.0	1851.2	5000.0	8.6
7299.13	-47.00* **	9.9	3118.8	5000.0	4.1

Table 4s. PEAK RADIATED SPURIOUS EMISSIONS High Mid Channel Corner Reflector Antenna

Freq. (MHz)	Test Data (dBm) @ 3m	AF + CA - AMP (dB)	Results (uV/m) 3m	FCC Limits (uV/m)	MARGIN BELOW FCC Limits (dB)
4930.09	-49.59*	6.2	1524.0	5000.0	10.3
7203.18	-43.47* **	9.8	4661.9	5000.0	0.6

Table 4t. PEAK RADIATED SPURIOUS EMISSIONS High Channel Corner Reflector Antenna

Freq. (MHz)	Test Data (dBm) @ 3m	AF + CA - AMP (dB)	Results (uV/m) 3m	FCC Limits (uV/m)	MARGIN BELOW FCC Limits (dB)
4952.38	-44.89*	6.3	2641.2	5000.0	5.54
7428.71	-44.70* **	9.9	4088.6	5000.0	1.75

^{*} Data corrected by 1 dB for loss of high pass filter

SAMPLE CALCULATION:

RESULTS (uV/m @ 3m) = Antilog ((-45.68 + 5.8 + 107)/20) = 2272.3 CONVERSION FROM dBm TO dBuV = 107 dB

Tester

Signature:

Name: <u>David Blethen</u>

Figure 5q-1

Peak Radiated Spurious Emission 15.247(c) Low Channel –
Corner Reflector Antenna
2nd Harmonic

^{**} Data conversion from 1 meter to 3 meters = -9.54

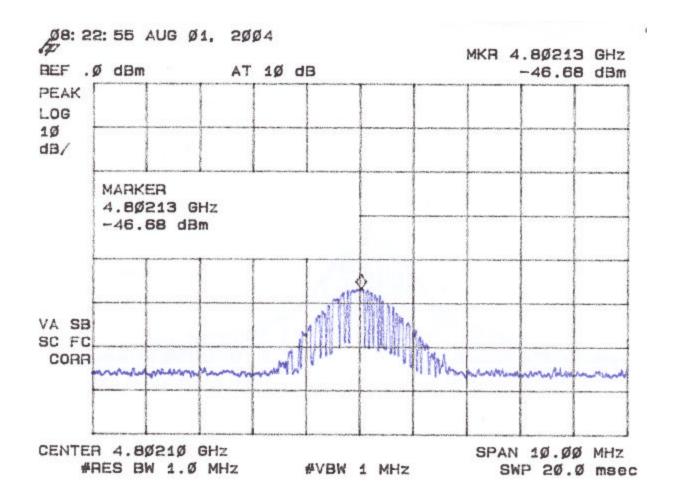


Figure 5q-2
Peak Radiated Spurious Emission 15.247(c) Low Channel –
Corner Reflector Antenna
3rd Harmonic

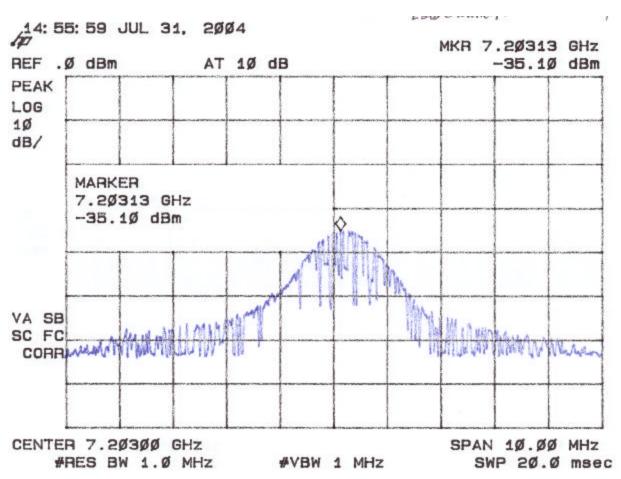


Figure 5r-1
Peak Radiated Spurious Emission 15.247(c) Low Mid Channel –
Corner Reflector Antenna
2nd Harmonic

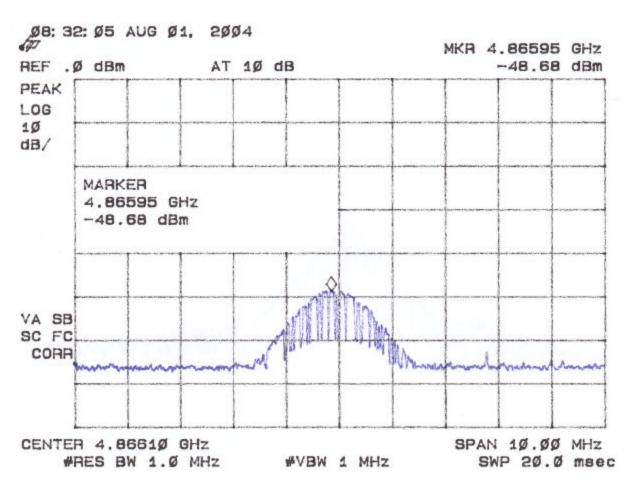


Figure 5r-2
Peak Radiated Spurious Emission 15.247(c) Low Mid Channel –
Corner Reflector Antenna
3rd Harmonic

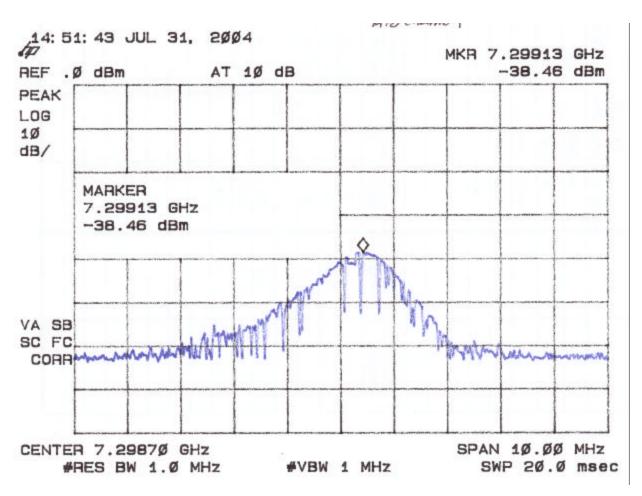


Figure 5s-1
Peak Radiated Spurious Emission 15.247(c) High Mid Channel –
Corner Reflector Antenna
2nd Harmonic

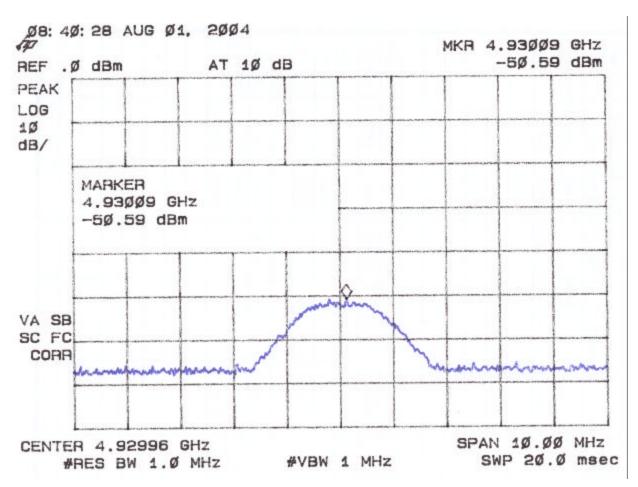


Figure 5s-2
Peak Radiated Spurious Emission 15.247(c) High Mid Channel – Corner Reflector
Antenna
3rd Harmonic

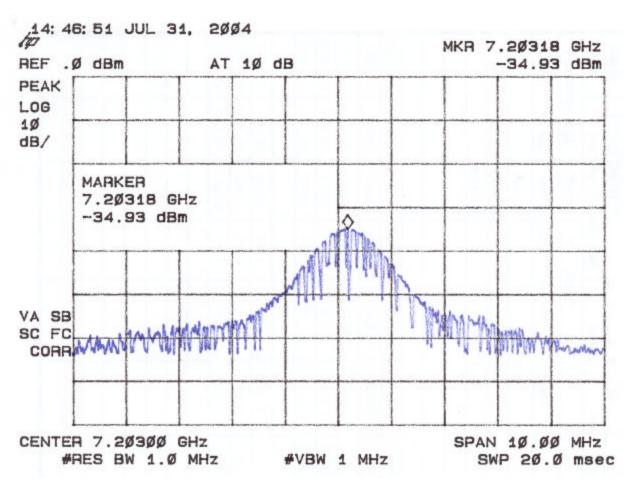


Figure 5t-1 Peak Radiated Spurious Emission 15.247(c) High Channel – Corner Reflector Antenna 2nd Harmonic

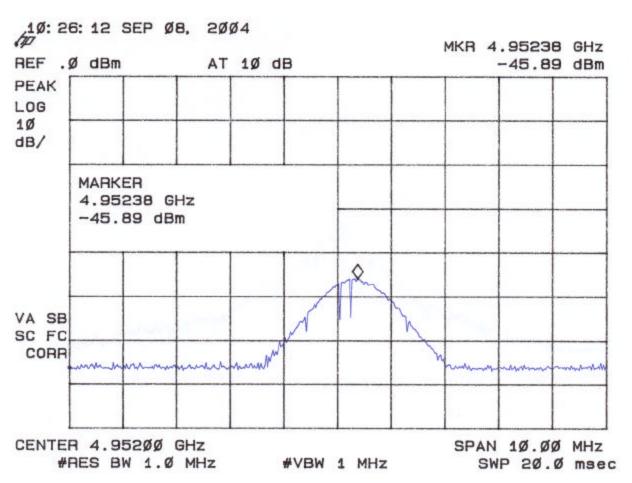
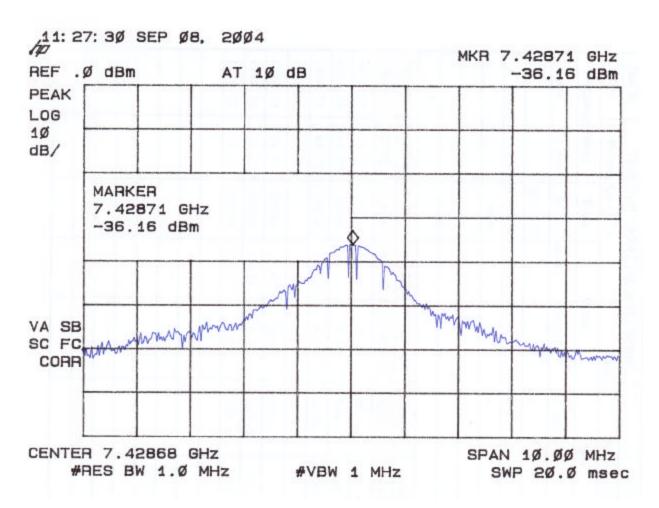


Figure 5t-2
Peak Radiated Spurious Emission 15.247(c) High Channel –
Corner Reflector Antenna
3rd Harmonic



FCC ID: HSW-2450

Table 4u. PEAK RADIATED SPURIOUS EMISSIONS Low Channel Large Patch Antenna

Freq. (MHz)	Test Data (dBm) @ 3m	AF + CA - AMP (dB)	Results (uV/m) 3m	FCC Limits (uV/m)	MARGIN BELOW FCC Limits (dB)
2400.94	-19.46	31.90	937500.3	-	-
4802.0	-41.87*	5.8	3523.3	5000.0	3.04
7203.2	-41.86* **	9.8	5630.7	93750.0	24.43
9604.34	-55.17* **	12.4	1629.7	93750.0	35.2

Table 4v. PEAK RADIATED SPURIOUS EMISSIONS Low Mid Channel Large Patch Antenna

Freq. (MHz)	Test Data (dBm) @ 3m	AF + CA - AMP (dB)	Results (uV/m) 3m	FCC Limits (uV/m)	MARGIN BELOW FCC Limits (dB)
2433.03	-19.65	31.95	922380.9	-	-
4865.88	-45.56*	6.0	2362.8	5000.0	6.5
7299.13	-49.19* **	9.9	2423.7	5000.0	6.3
9732.02	-59.91* **	127	970.2	92238.1	39.6

Table 4w. PEAK RADIATED SPURIOUS EMISSIONS High Mid Channel Large Patch Antenna

<u>=u:: go : u::o::: :</u>					
Freq. (MHz)	Test Data (dBm) @ 3m	AF + CA - AMP (dB)	Results (uV/m) 3m	FCC Limits (uV/m)	MARGIN BELOW FCC Limits (dB)
2464.88	-20.78	32.0	814387.1	-	-
4929.9	-47.11*	6.3	2027.5	5000.0	7.8
7395.1	-42.98* **	9.9	4976.2	5000.0	0.04
9860.05	-58.66* **	12.9	1157.5	81438.7	36.9

FCC ID: HSW-2450

Table 4x. PEAK RADIATED SPURIOUS EMISSIONS High Channel Large Patch Antenna

Freq. (MHz)	Test Data (dBm) @ 3m	AF + CA - AMP (dB)	Results (uV/m) 3m	FCC Limits (uV/m)	MARGIN BELOW FCC Limits (dB)
4952.34	-45.22*	6.3	2542.7	5000.0	5.9
7428.63	-45.93	9.9	3548.7	5000.0	3.0

^{*} Data corrected by 1 dB for loss of high pass filter

SAMPLE CALCULATION:

RESULTS (uV/m @ 3m) = Antilog ((-41.87 + 5.8 + 107)/20) = 3523.3 CONVERSION FROM dBm TO dBuV = 107 dB

Tester

Name: David Blethen Signature: __

^{**} Data conversion from 1 meter to 3 meters = -9.54

Figure 5u-1

Peak Radiated Spurious Emission 15.247(c) Low Channel – Large Patch Antenna 2nd Harmonic

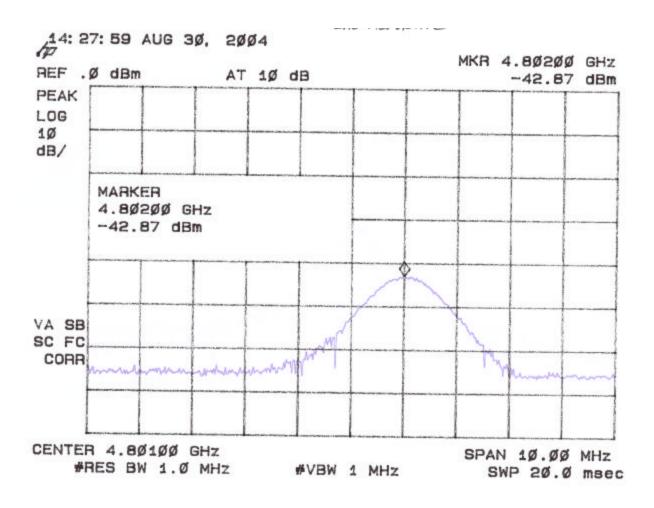


Figure 5u-2
Peak Radiated Spurious Emission 15.247(c) Low Channel – Large Patch Antenna
3rd Harmonic

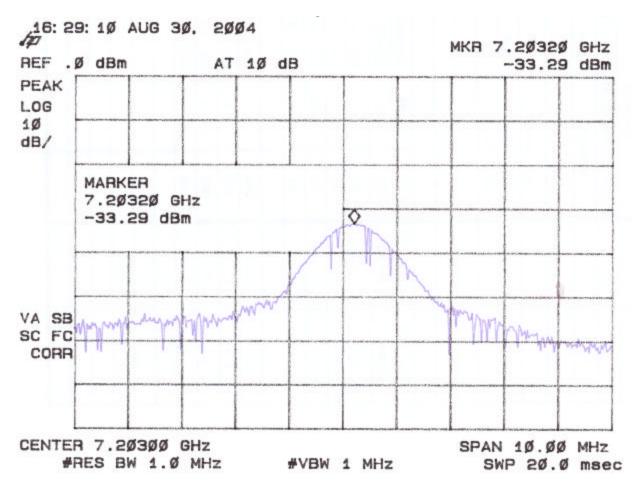


Figure 5u-3
Peak Radiated Spurious Emission 15.247(c) Low Channel– Large Patch Antenna
4th Harmonic

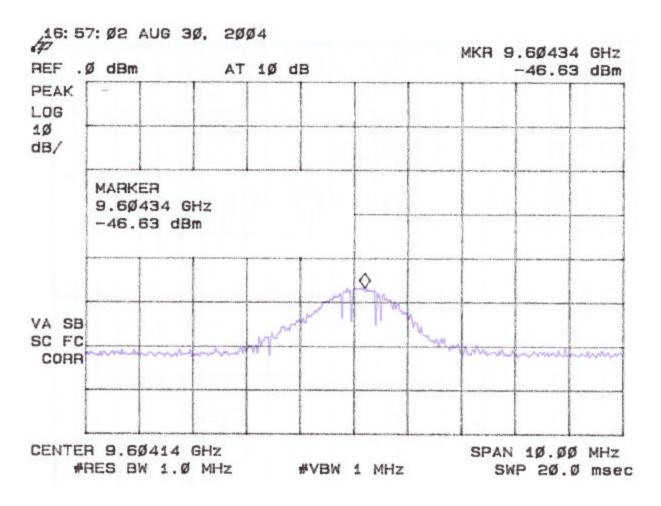


Figure 5v-1 Peak Radiated Spurious Emission 15.247(c) Low Mid Channel – Large Patch Antenna 2nd Harmonic

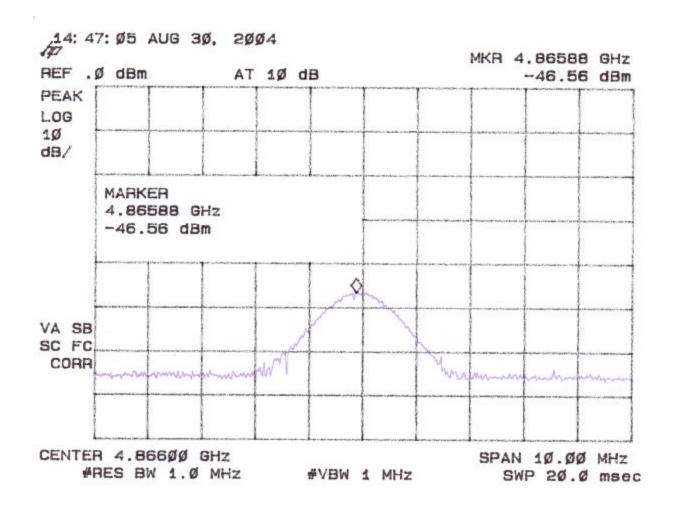


Figure 5v-2 Peak Radiated Spurious Emission 15.247(c) Low Mid Channel – Large Patch Antenna 3rd Harmonic

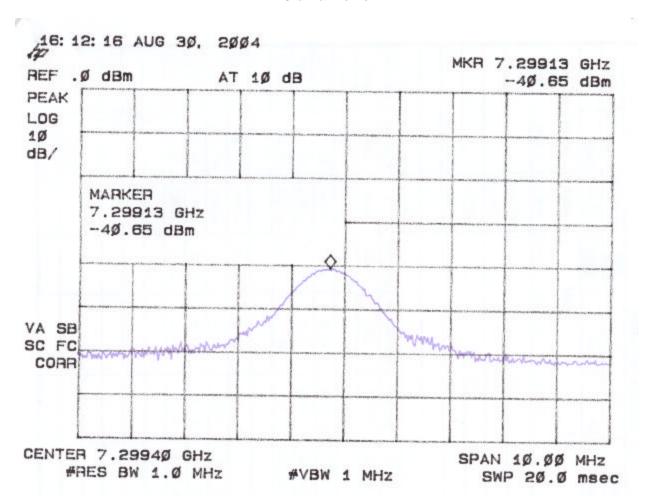


Figure 5v-3
Peak Radiated Spurious Emission 15.247(c) Low Mid Channel –
Large Patch Antenna

4th Harmonic

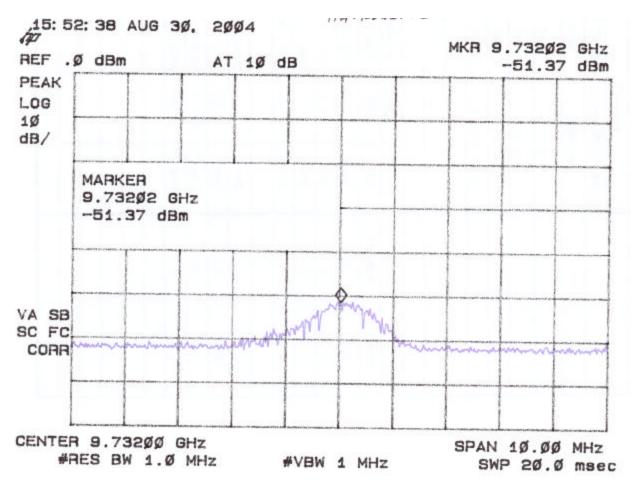


Figure 5w-1 Peak Radiated Spurious Emission 15.247(c) High Mid Channel – Large Patch Antenna 2nd Harmonic

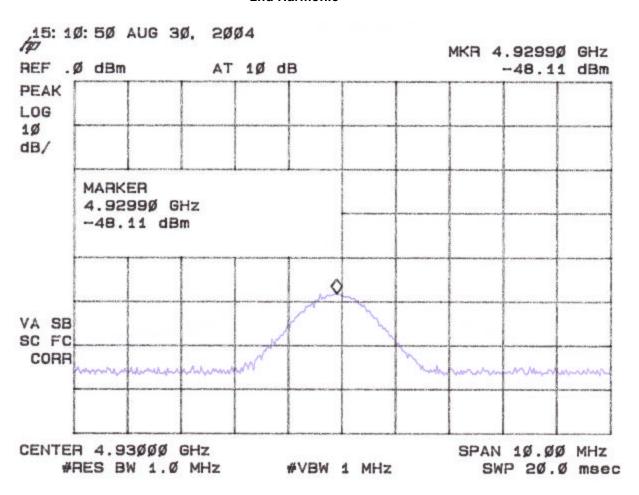


Figure 5w-2 Peak Radiated Spurious Emission 15.247(c) High Mid Channel – Large Patch Antenna 3rd Harmonic

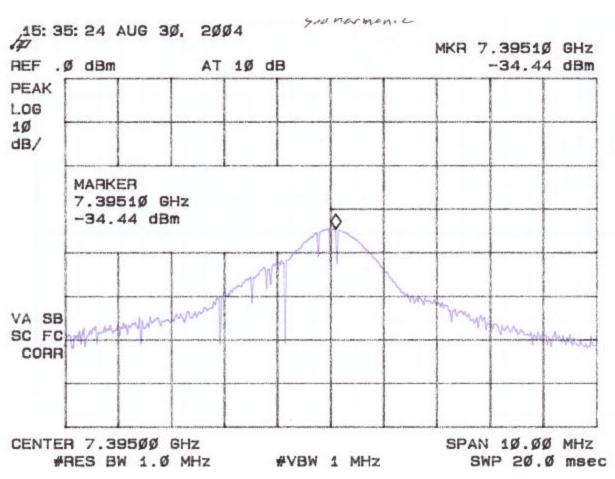


Figure 5w-3 Peak Radiated Spurious Emission 15.247(c) High Mid Channel – Large Patch Antenna 4th Harmonic

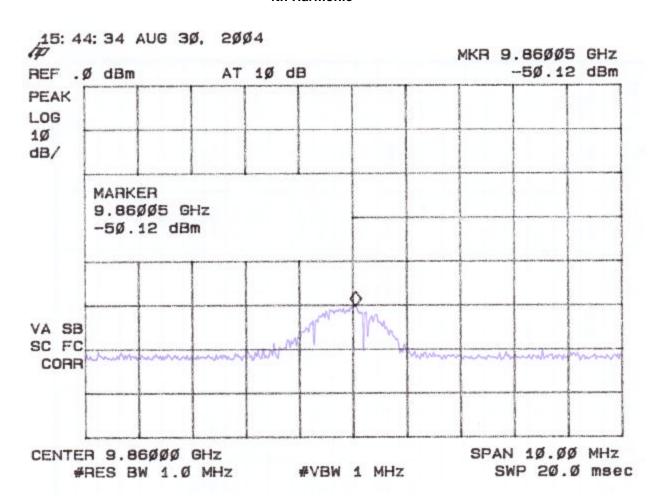


Figure 5x-1 Peak Radiated Spurious Emission 15.247(c) High Channel – Large Patch Antenna 2nd Harmonic

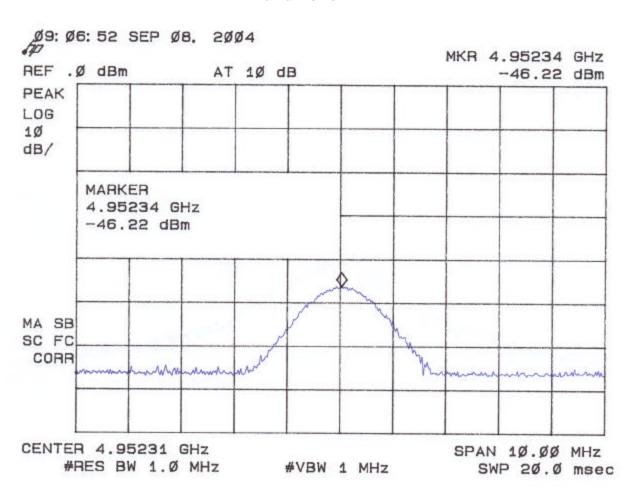


Figure 5x-2
Peak Radiated Spurious Emission 15.247(c) High Channel –
Large Patch Antenna
3rd Harmonic

