

FCC ID: ESD-SA824894NE

Exhibit 2

Engineering Report
d)Spurious Emissions, Antenna Terminal (2.1051)

PAGE NO. 18 of 30.
NAME OF TEST: Spurious Emissions at Antenna Terminals
SPECIFICATION: 47 CFR 2.1051, 22.917
GUIDE: EIA/IS-19-B-1988
TIA/EIA/IS-137-A-1996
TEST EQUIPMENT: As per attached page

MEASUREMENT PROCEDURE

1. The EUT was connected to a coaxial attenuator and then to a Spectrum Analyzer.
2. A notch filter was introduced to reduce or eliminate spurious emission which could be generated internally in the spectrum analyzer.
3. Measurements were made over the range from 45 kHz to 10 GHz for the worst case modulation so both the highest and lowest R.F. power settings.
4. All other emissions were 20 dB or more below the limit.
5. Spectrum analyzer bandwidth was set to section 22.917(h) as applicable.
6. MEASUREMENT RESULTS: ATTACHED

PAGE NO.

19 of 30.

NAME OF TEST: Unwanted Emissions (Transmitter Conducted)
 g98b0375: 1998-Nov-23 Mon 14:06:00
 STATE: 1:Low Power

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	LEVEL, dBm	LEVEL, dBc	MARGIN, dB
836.400000	1672.708333	-36.6	-44.3	-23.6
836.400000	2509.590000	-47.8	-55.5	-34.8
836.400000	3345.670000	-49.5	-57.2	-36.5
836.400000	4181.966667	-50.5	-58.2	-37.5
836.400000	5018.471667	-50.3	-58	-37.3
836.400000	5854.573333	-50.5	-58.2	-37.5
836.400000	6690.735000	-48.5	-56.2	-35.5
836.400000	7527.783333	-48.5	-56.2	-35.5
836.400000	8364.113333	-48.6	-56.3	-35.6
836.400000	9200.481667	-48.5	-56.2	-35.5
836.400000	10036.348333	-49.5	-57.2	-36.5
836.400000	10873.493333	-46.1	-53.8	-33.1
836.400000	11709.381667	-48.8	-56.5	-35.8
836.400000	12545.863333	-49.1	-56.8	-36.1

PAGE NO.

20 of 30.

NAME OF TEST: Unwanted Emissions (Transmitter Conducted)
 g98c0003: 1998-Dec-01 Tue 15:04:00
 STATE: 1:Low Power

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	LEVEL, dBm	LEVEL, dBc	MARGIN, dB
824.04000	1648.076667	-37.8	-45.5	-24.8
824.04000	2471.975000	-65.7	-73.4	-52.7
824.04000	3296.073333	-68.3	-76	-55.3
824.04000	4119.735000	-67.7	-75.4	-54.7
824.04000	4944.456667	-68.7	-76.4	-55.7
824.04000	5768.043333	-68	-75.7	-55
824.04000	6591.938333	-67.5	-75.2	-54.5
824.04000	7416.110000	-67.5	-75.2	-54.5
824.04000	8240.623333	-67.8	-75.5	-54.8
824.04000	9064.698333	-66.8	-74.5	-53.8
824.04000	9888.918333	-67.7	-75.4	-54.7
824.04000	10712.440000	-67.5	-75.2	-54.5
824.04000	11536.906667	-67.2	-74.9	-54.2
824.04000	12360.736667	-66.8	-74.5	-53.8

PAGE NO.

21 of 30.

NAME OF TEST: Unwanted Emissions (Transmitter Conducted)
 g98c0001: 1998-Dec-01 Tue 14:44:00
 STATE: 2:High Power

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	LEVEL, dBm	LEVEL, dBc	MARGIN, dB
848.97000	1697.940000	-28.1	-55.8	-15.1
848.97000	2546.915000	-46	-73.7	-33
848.97000	3395.531667	-47.8	-75.5	-34.8
848.97000	4244.490000	-47.6	-75.3	-34.6
848.97000	5093.578333	-48.5	-76.2	-35.5
848.97000	5943.148333	-48	-75.7	-35
848.97000	6791.931667	-47.5	-75.2	-34.5
848.97000	7640.768333	-46.3	-74	-33.3
848.97000	8489.295000	-48	-75.7	-35
848.97000	9338.280000	-47.1	-74.8	-34.1
848.97000	10188.075000	-47.3	-75	-34.3
848.97000	11036.350000	-47.5	-75.2	-34.5
848.97000	11885.923333	-47	-74.7	-34
848.97000	12734.668333	-46.5	-74.2	-33.5

PAGE NO.

22 of 30.

NAME OF TEST: Unwanted Emissions (Transmitter Conducted)
 g98c0004: 1998-Dec-01 Tue 15:09:00
 STATE: 2:High Power

FREQUENCY TUNED, MHz	FREQUENCY EMISSION, MHz	LEVEL, dBm	LEVEL, dBc	MARGIN, dB
824.04000	1648.076667	-28.8	-56.5	-15.8
824.04000	2471.806667	-47	-74.7	-34
824.04000	3295.861667	-47.5	-75.2	-34.5
824.04000	4120.546667	-48.8	-76.5	-35.8
824.04000	4944.265000	-48.3	-76	-35.3
824.04000	5767.901667	-48.6	-76.3	-35.6
824.04000	6591.838333	-47.5	-75.2	-34.5
824.04000	7415.863333	-47.1	-74.8	-34.1
824.04000	8240.328333	-46.6	-74.3	-33.6
824.04000	9064.245000	-47.3	-75	-34.3
824.04000	9888.886667	-47.6	-75.3	-34.6
824.04000	10712.021667	-46.6	-74.3	-33.6
824.04000	11536.118333	-47.8	-75.5	-34.8
824.04000	12360.445000	-47.5	-75.2	-34.5