

Icom Inc.

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Date: June 6, 2017

Federal Aviation Administration
Office of Spectrum Policy and Management
ASR-1
800 Independence AVE. SW
Washington, DC 20591

Dear Sir/Madam,

As required under FCC Rile Part 87.147(d), Please consider this letter as notification of an application for the certification of the equipment described below.

Equipment: IC-A25N or IC-A25C (FCC ID AFJ369900)

 $\begin{array}{ll} \mbox{Manufacturer Identification:} & \mbox{Icom Inc.} \\ \mbox{Antenna Characteristics:} & 50 \, \Omega \end{array}$

Rated Output Power: 1.8W (carrier power)

Emission Type & Characteristics: 6K00A3E/5K60A3E (Amplitude Modulation Voice)

Frequency of Operation: (TX) 118.000 to 136.99166MHz (RX) 108.000 to 136.99166MHz,

161.65 to 163.275MHz

Essential Receiver Characteristics: Sensitivity 1uV;

Spurious Response 60dB

Sincerely,

Icom Incorporated

Hideji Fujishima

General Manager of Quality Assurance Department

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Information Necessary for FAA Review of FCC Certification Application for VHF Transmitters/Receiver.

1.) FCC identification number AFJ369900

2.) Manufacture and model number

Manufacture: Icom Inc.

Model number: IC-A25N or IC-A25C

3.) Rated transmitter output power

Rated output power: 1.8W

4.) Frequency range (capable of tuning)

Frequency capable/tuning range:

TX:118.000 to 136.99166 MHz

RX:108.000 to 136.99166 MHz

RX:161.650 to 163.275 MHz

5.) Method of tuning

Microprocessor controlled phased lock loop (PLL) arrangement

6.) Channeling capability

The radio comes with 25 KHz and 8.33 KHz channel spacing.

7.) Frequency stability (transmitter)

+ / - 0.4kHz

8.) Emission bandwidth(s)

25 KHz: 6K00A3E 8.33 KHz: 5K60A3E

9.) Emission type(s)

Amplitude modulation (AM)

10.) Spectral emission plots

All harmonics and spurious emissions are more than 20dB below the specified attenuation limit.

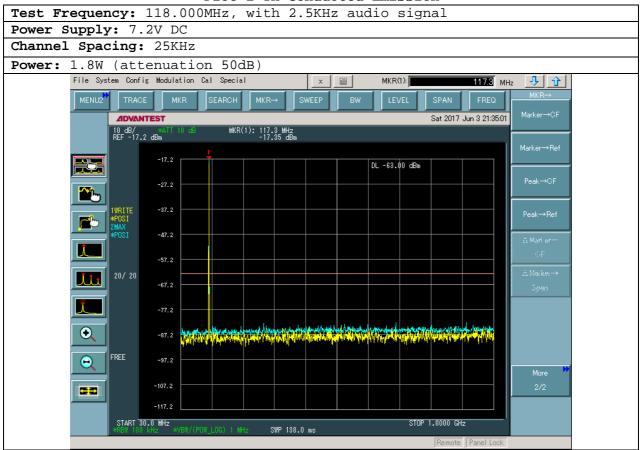
11.) Receiver RF characteristics

Sensitivity: 6 dB S/N 1 uV Spurious Response: 60 dB

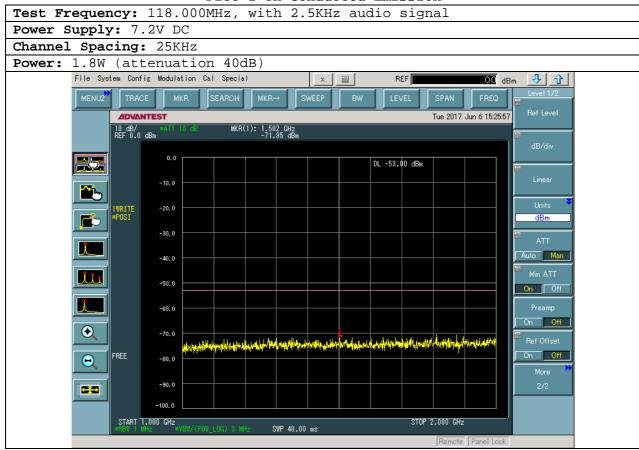
Audio output power: 0.35 W (EXT Speaker, 8ohm, 10% distortion)

Receive System: Double conversion superheterodyne

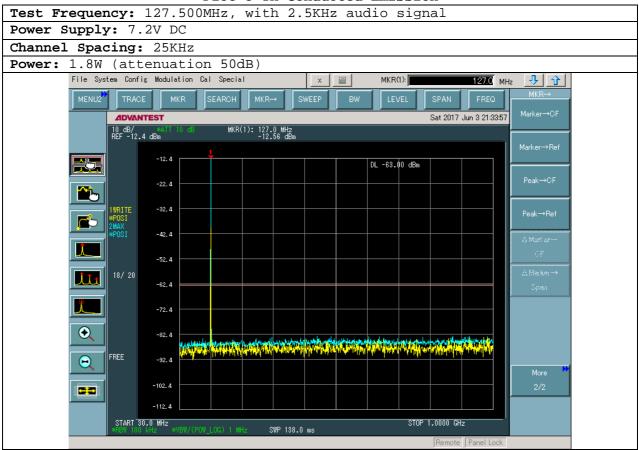
Plot 1 TX Conducted Emission



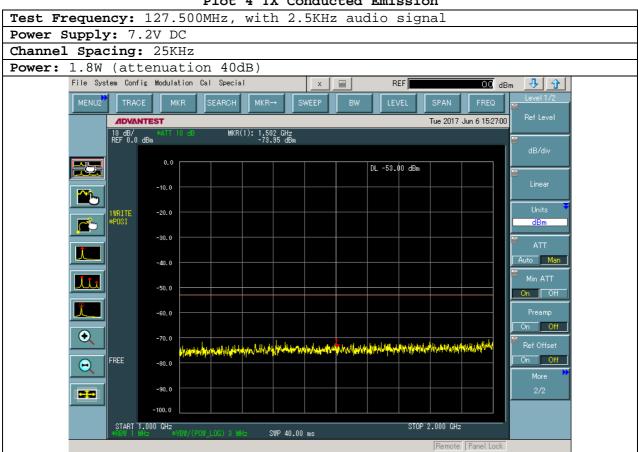
Plot 2 TX Conducted Emission



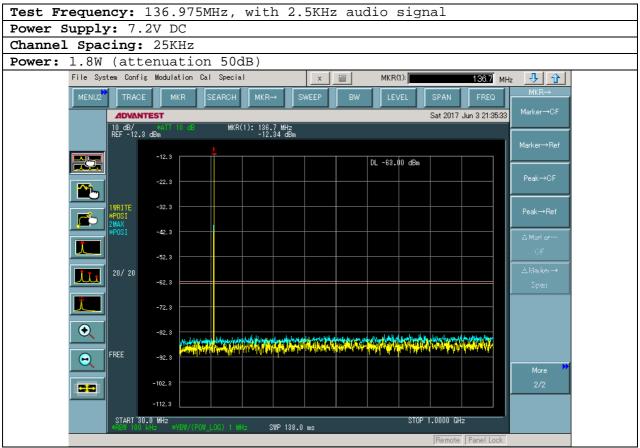
Plot 3 TX Conducted Emission



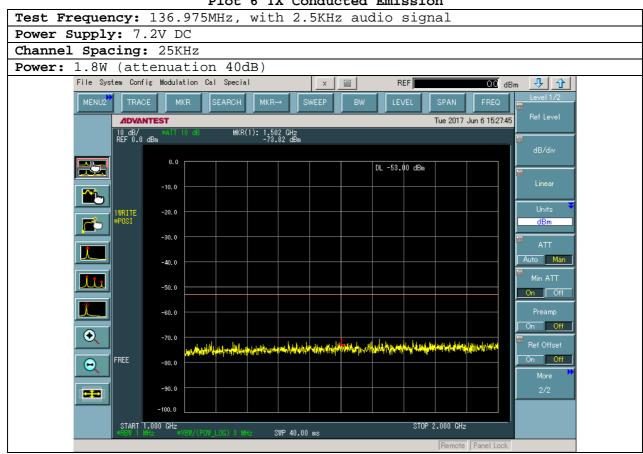
Plot 4 TX Conducted Emission



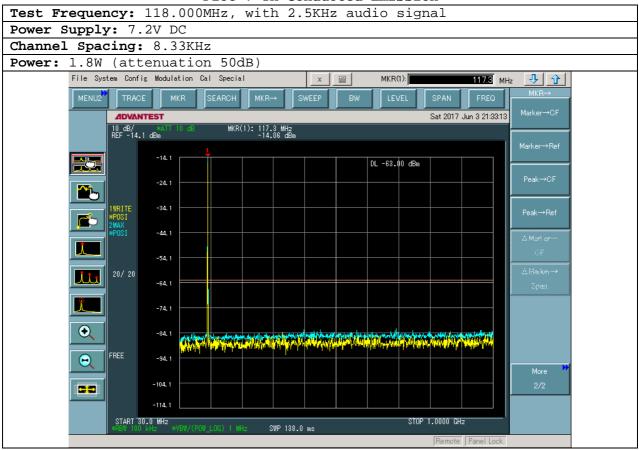
Plot 5 TX Conducted Emission



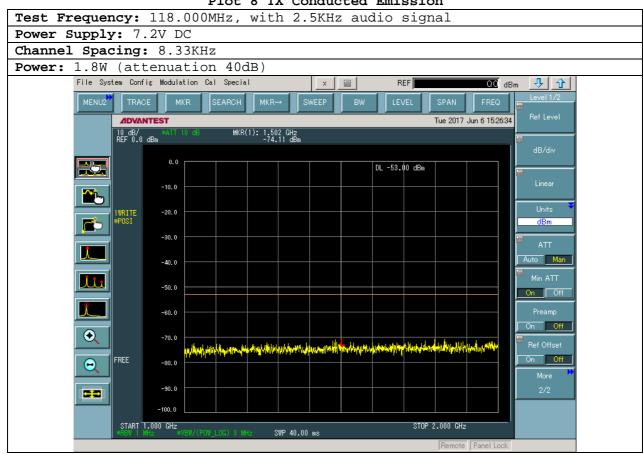
Plot 6 TX Conducted Emission



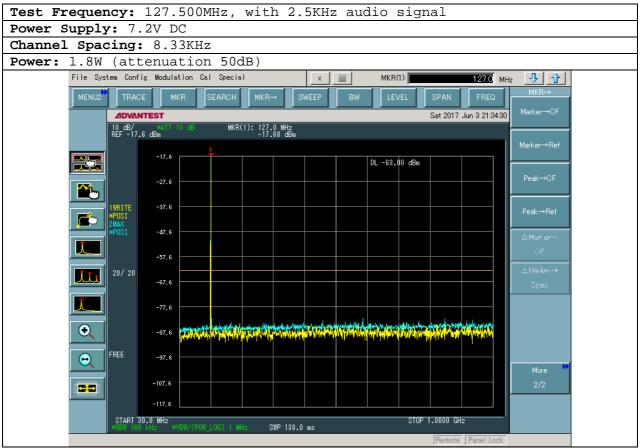
Plot 7 TX Conducted Emission



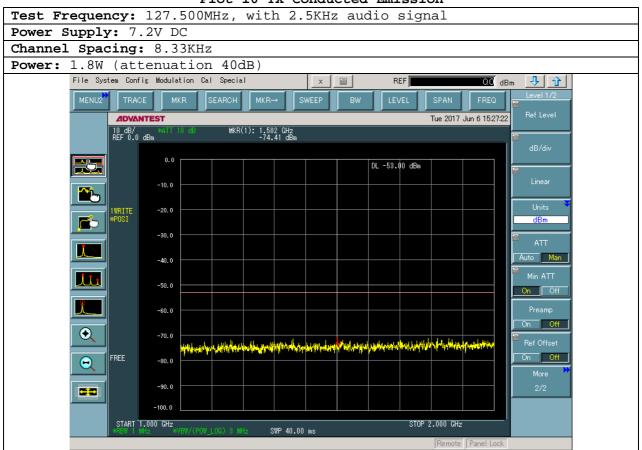
Plot 8 TX Conducted Emission



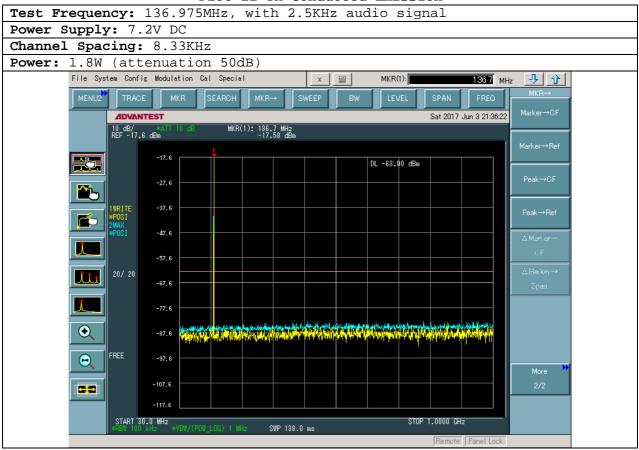
Plot 9 TX Conducted Emission



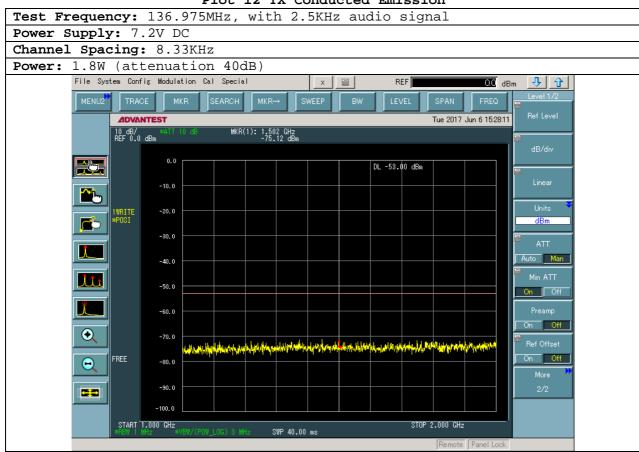
Plot 10 TX Conducted Emission



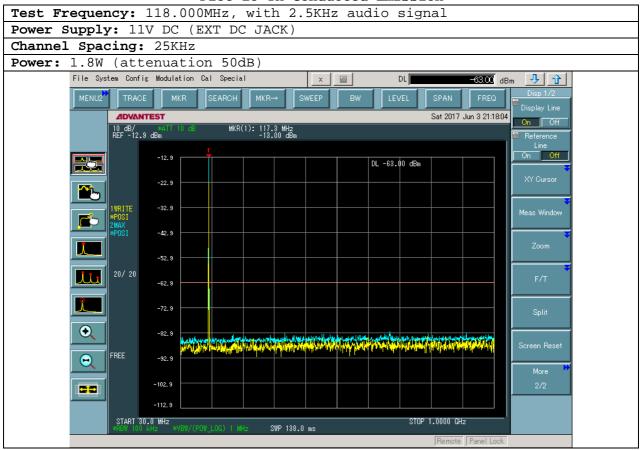
Plot 11 TX Conducted Emission



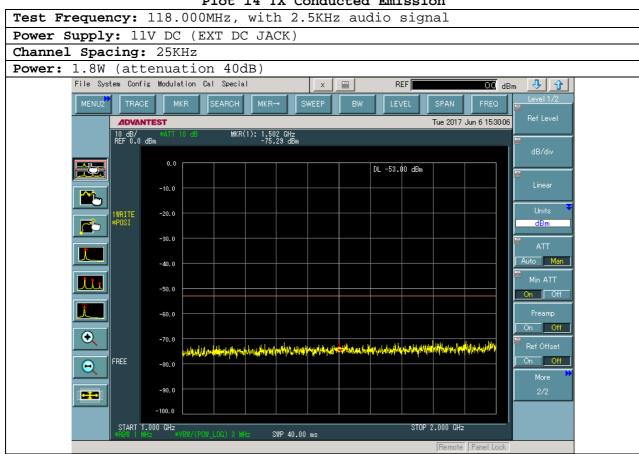
Plot 12 TX Conducted Emission



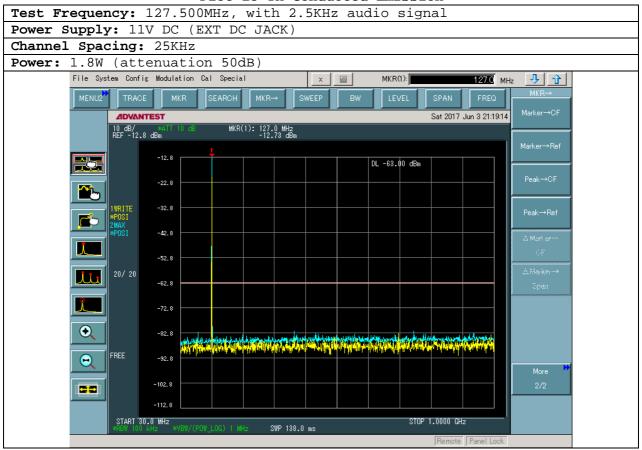
Plot 13 TX Conducted Emission



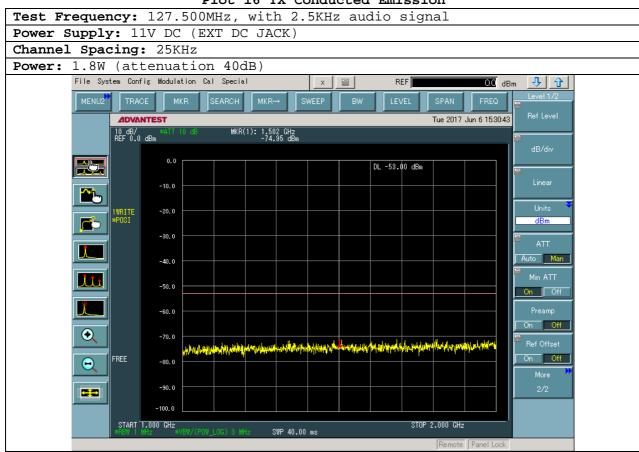
Plot 14 TX Conducted Emission



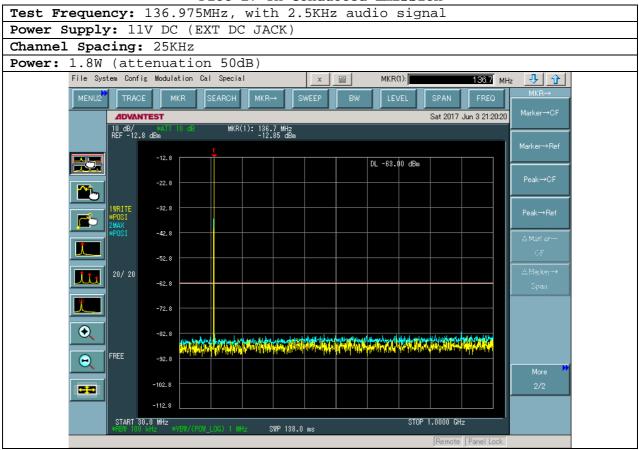
Plot 15 TX Conducted Emission



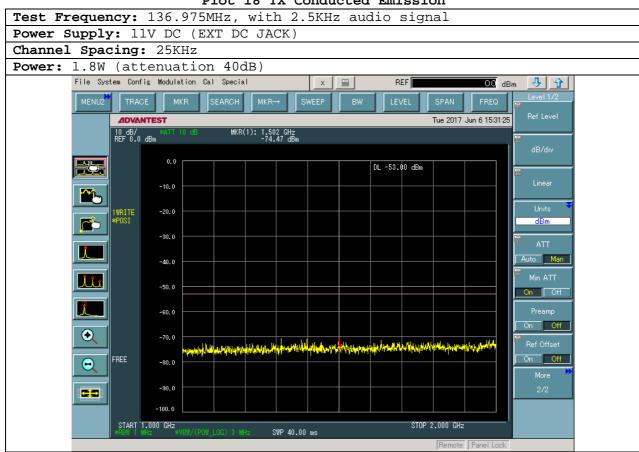
Plot 16 TX Conducted Emission



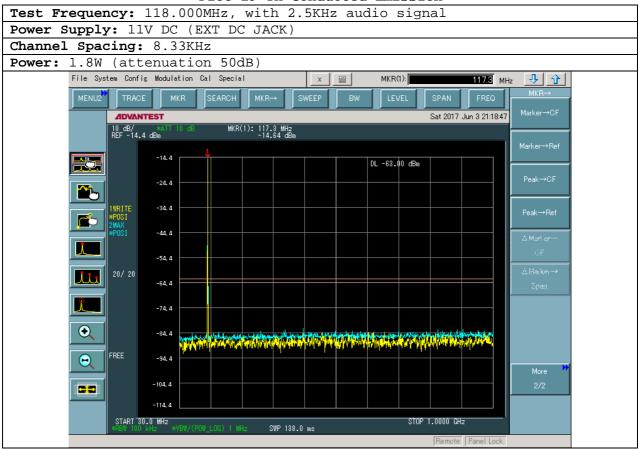
Plot 17 TX Conducted Emission



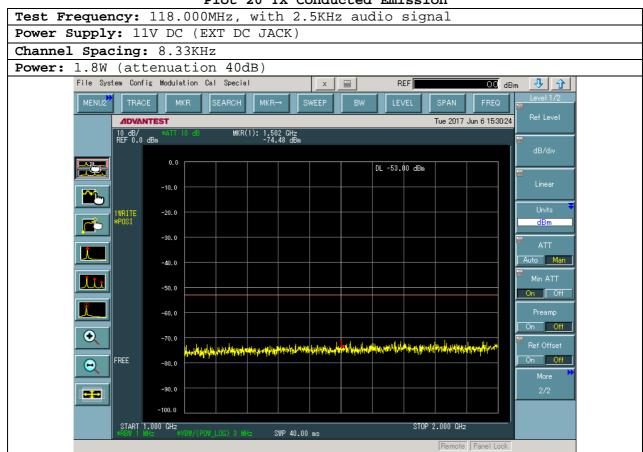
Plot 18 TX Conducted Emission



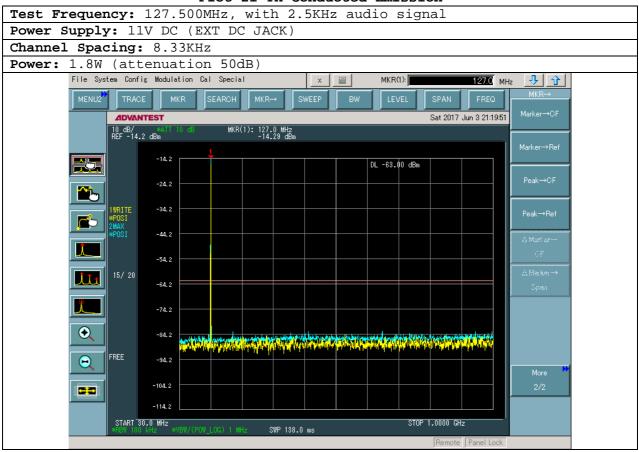
Plot 19 TX Conducted Emission



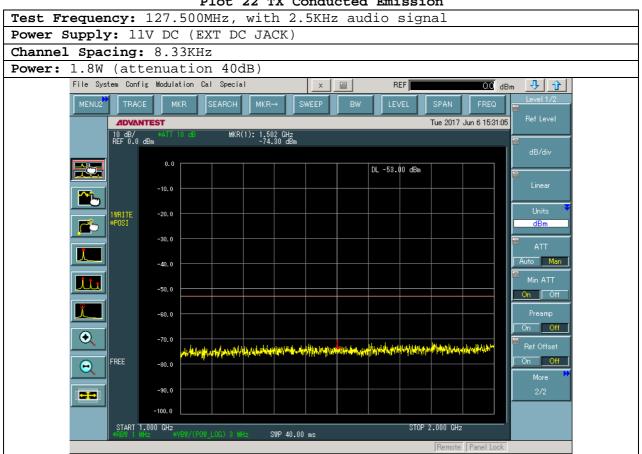
Plot 20 TX Conducted Emission



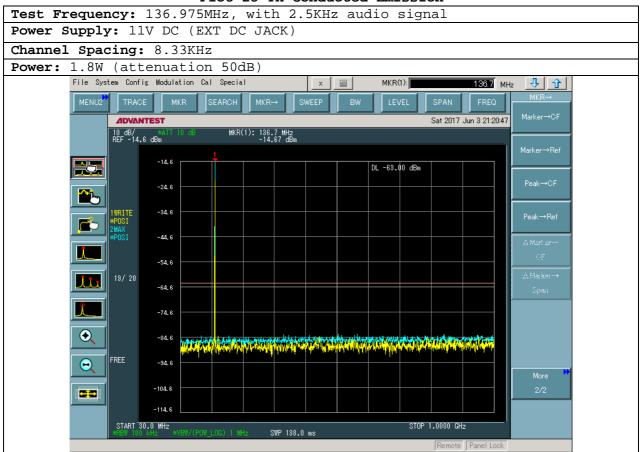
Plot 21 TX Conducted Emission



Plot 22 TX Conducted Emission



Plot 23 TX Conducted Emission



Plot 24 TX Conducted Emission

