

Date: September 28, 2021

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

Dear Sir/Madam,

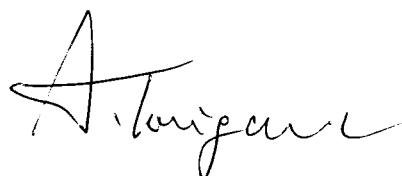
As required under FCC Rule Part 87.147(d), Please consider this letter as notification of an application for the certification of the equipment described below.

Equipment:	IC-A16 (FCC ID AFJ405210)
Manufacturer Identification:	Icom Inc.
Antenna Characteristics:	50 $\Omega$
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, 161.650 to 163.275MHz
Essential Receiver Characteristics:	Sensitivity 1 $\mu$ V; Spurious Response 60dB $\mu$

Sincerely,

Icom Incorporated

Atsushi Tomiyama  
General Manager of Quality Assurance Department



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

- 1.) FCC identification number  
AFJ405210
- 2.) Manufacture and model number  
Manufacture: Icom Inc.  
Model number: IC-A16
- 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

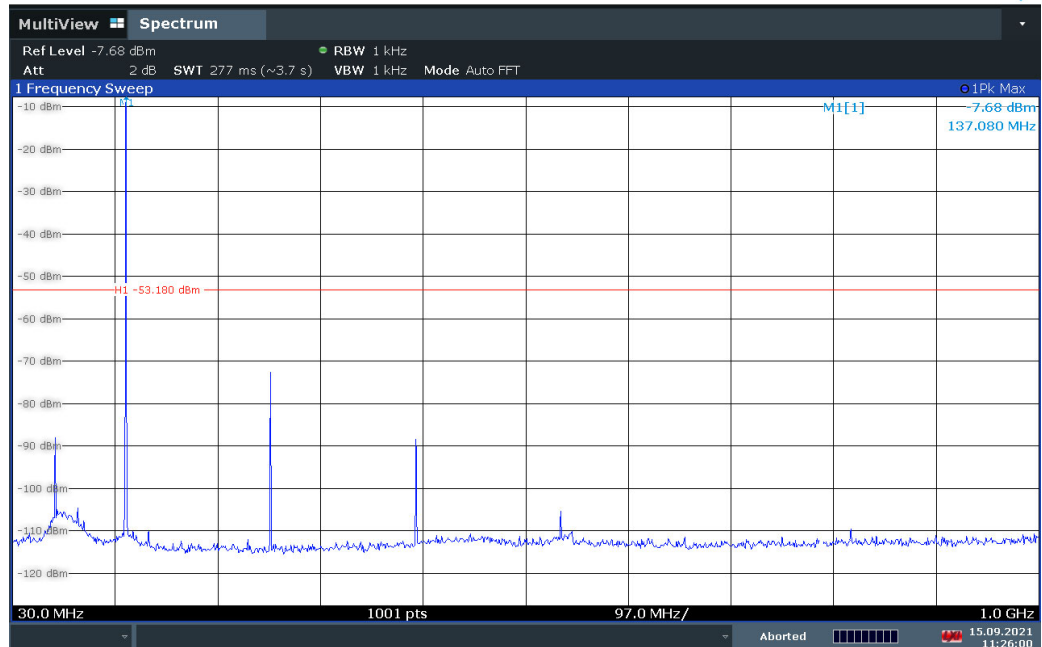
### Plot 1 TX Conducted Emission

**Test Frequency:** 118.000MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 25KHz

**Power:** 1.8W (attenuation 40.2dB)



### Plot 2 TX Conducted Emission

**Test Frequency:** 118.000MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 25KHz

**Power:** 1.8W (attenuation 40.2dB)



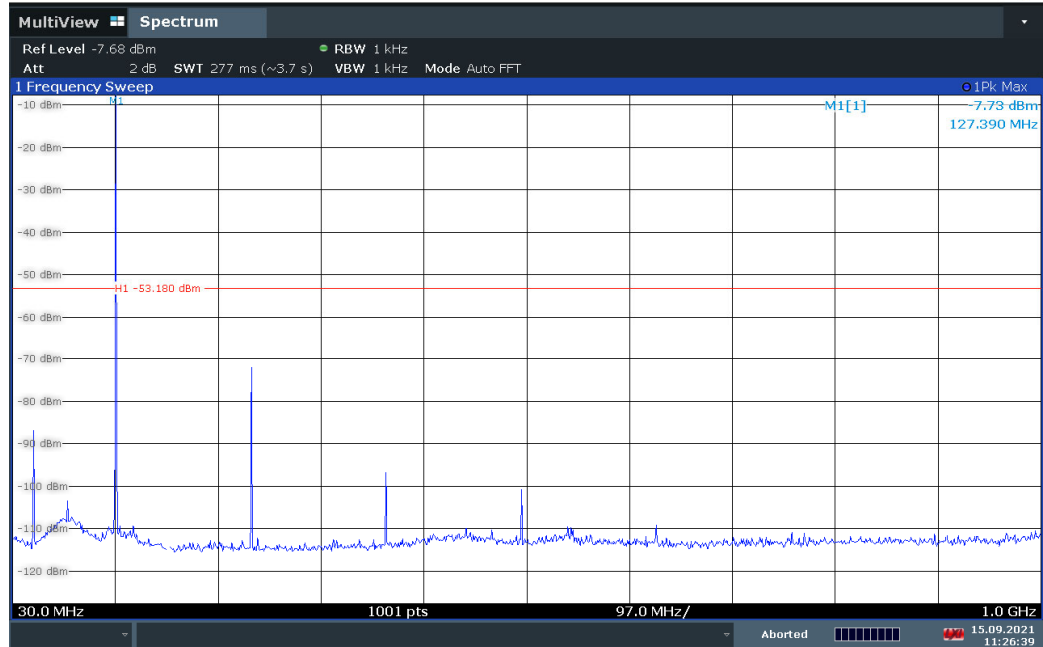
### Plot 3 TX Conducted Emission

**Test Frequency:** 127.500MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 25KHz

**Power:** 1.8W (attenuation 40.2dB)



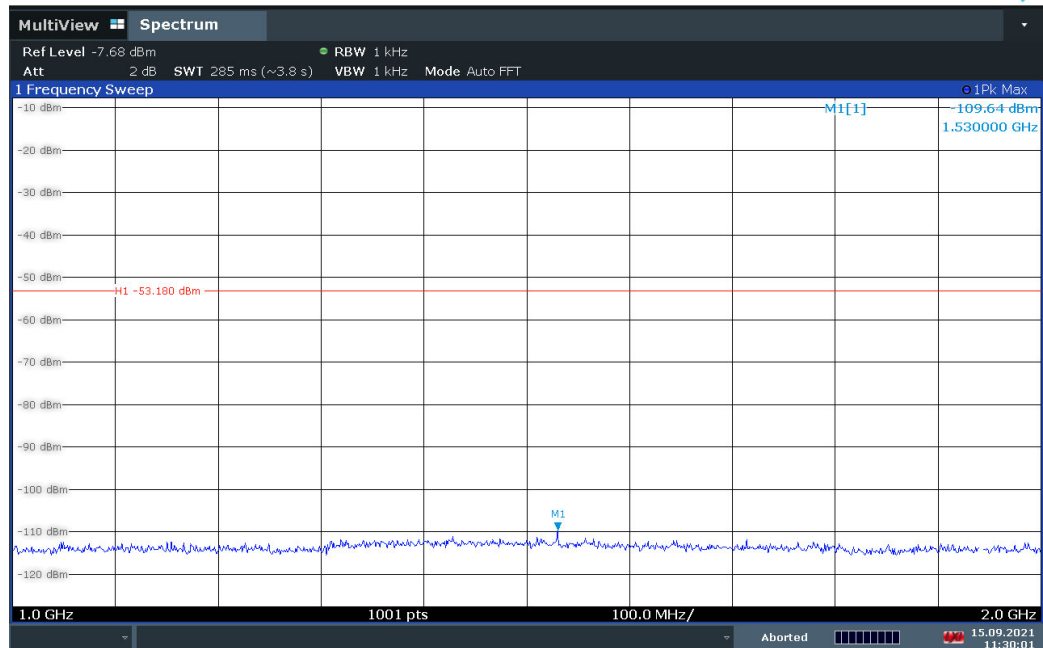
### Plot 4 TX Conducted Emission

**Test Frequency:** 127.500MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 25KHz

**Power:** 1.8W (attenuation 40.2dB)



### Plot 5 TX Conducted Emission

**Test Frequency:** 136.975MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 25KHz

**Power:** 1.8W (attenuation 40.2dB)



### Plot 6 TX Conducted Emission

**Test Frequency:** 136.975MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 25KHz

**Power:** 1.8W (attenuation 40.2dB)



### Plot 7 TX Conducted Emission

**Test Frequency:** 118.000MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 8.33KHz

**Power:** 1.8W (attenuation 40.2dB)



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### Plot 8 TX Conducted Emission

**Test Frequency:** 118.000MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 8.33KHz

**Power:** 1.8W (attenuation 40.2dB)



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### Plot 9 TX Conducted Emission

**Test Frequency:** 127.500MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 8.33KHz

**Power:** 1.8W (attenuation 40.2dB)



### Plot 10 TX Conducted Emission

**Test Frequency:** 127.500MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 8.33KHz

**Power:** 1.8W (attenuation 40.2dB)



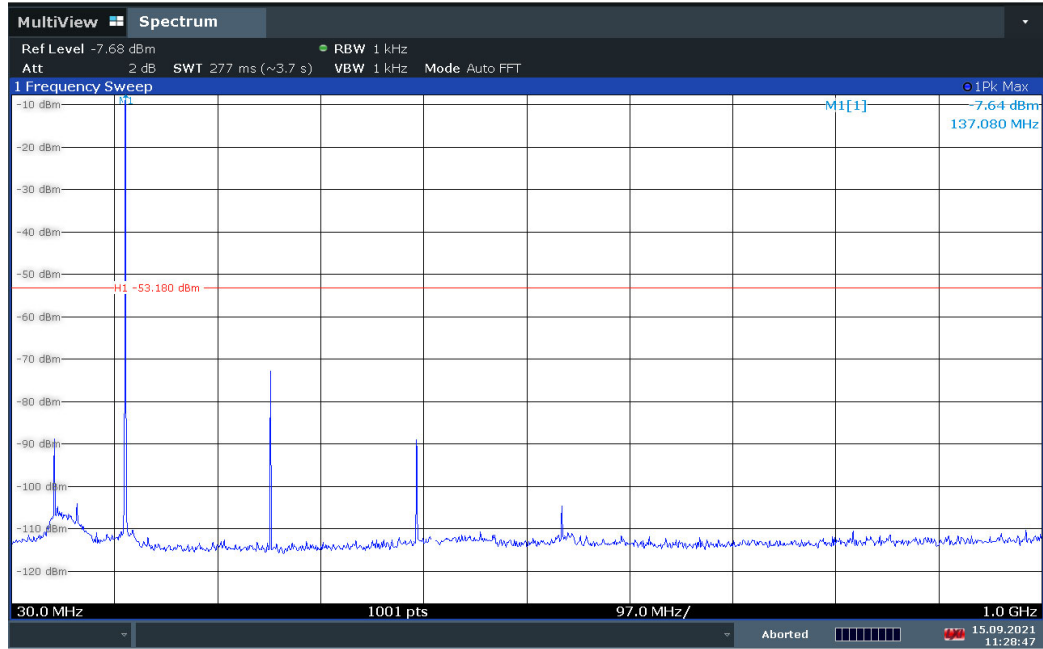
### Plot 11 TX Conducted Emission

**Test Frequency:** 136.975MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 8.33KHz

**Power:** 1.8W (attenuation 40.2dB)



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### Plot 12 TX Conducted Emission

**Test Frequency:** 136.975MHz, with 2.5KHz audio signal

**Power Supply:** 7.2V DC

**Channel Spacing:** 8.33KHz

**Power:** 1.8W (attenuation 40.2dB)



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