

Date: October 4, 2019

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

Dear Sir/Madam,

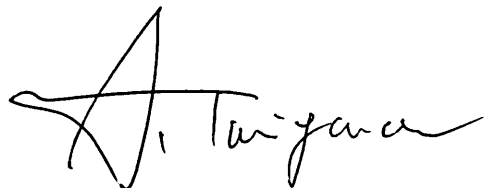
As required under FCC Rule Part 87.147(d), Please consider this letter as notification of an application for the certification of the equipment described below.

Equipment:	IC-A220 (FCC ID AFJ297420)
Manufacturer Identification:	Icom Inc.
Antenna Characteristics:	50 Ω
Rated Output Power:	8W (carrier power)
Emission Type & Characteristics:	6K00A3E/5K60A3E (Amplitude Modulation Voice)
Frequency of Operation:	(TX/RX) 118.000 to 136.9917MHz
Essential Receiver Characteristics:	Sensitivity 2 μ V; Spurious Response 74dB μ

Sincerely,

Icom Incorporated

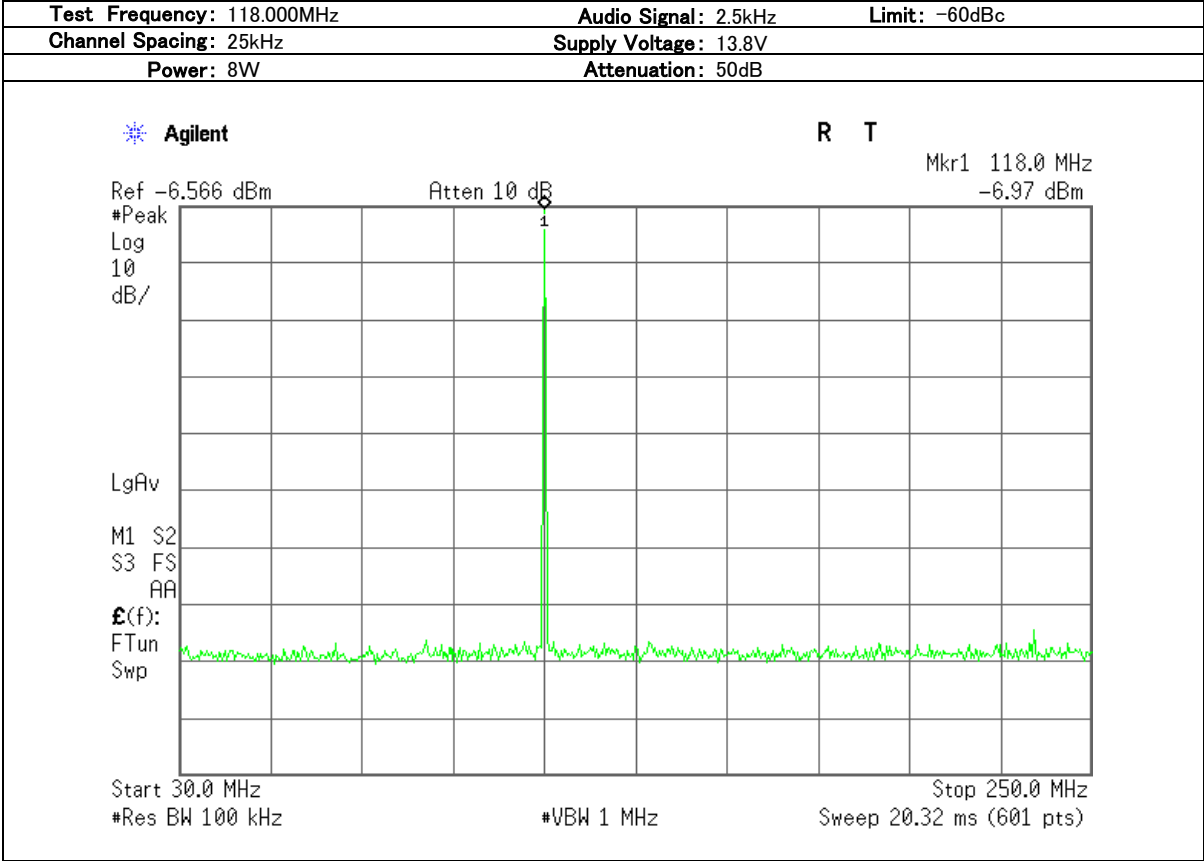
Atsushi Tomiyama
General Manager of Quality Assurance Department

A handwritten signature in black ink, appearing to read 'A. Tomiyama', with a stylized flourish at the end.

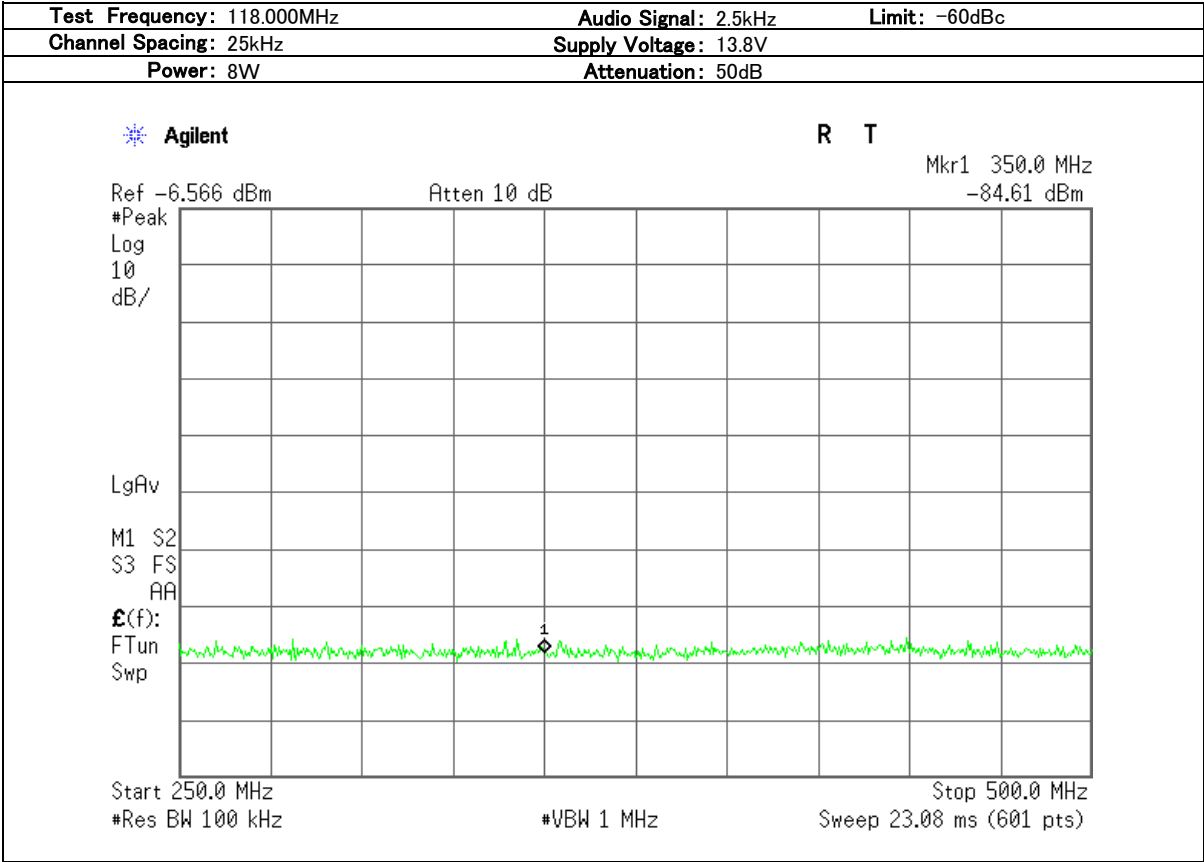
Information Necessary for FAA Review of FCC
Certification Application for VHF Transmitters/Receiver.

- 1.) FCC identification number
AFJ297420
- 2.) Manufacture and model number
Manufacture : Icom Inc.
Model number: IC-A220
- 3.) Rated transmitter output power
Rated output power: 8 W
- 4.) Frequency range (capable of tuning)
Frequency capable/tuning range: 118.000 to 136.9917 MHz,
161.000 to 164.0000 MHz (Recevie only)
- 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)
+/- 5ppm
- 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 (AM): 6 dB S/N 2 uV
(FM): 12 dB SINAD 1.4 uV
Spurious Response : 74 dBu
Audio output power: 5 W (EXT Speaker, 8 ohm, 10% distortion)
60mW (EXT Head Phone, 500 ohm, 10% distortion)
Receive System : Double conversion superheterodyne

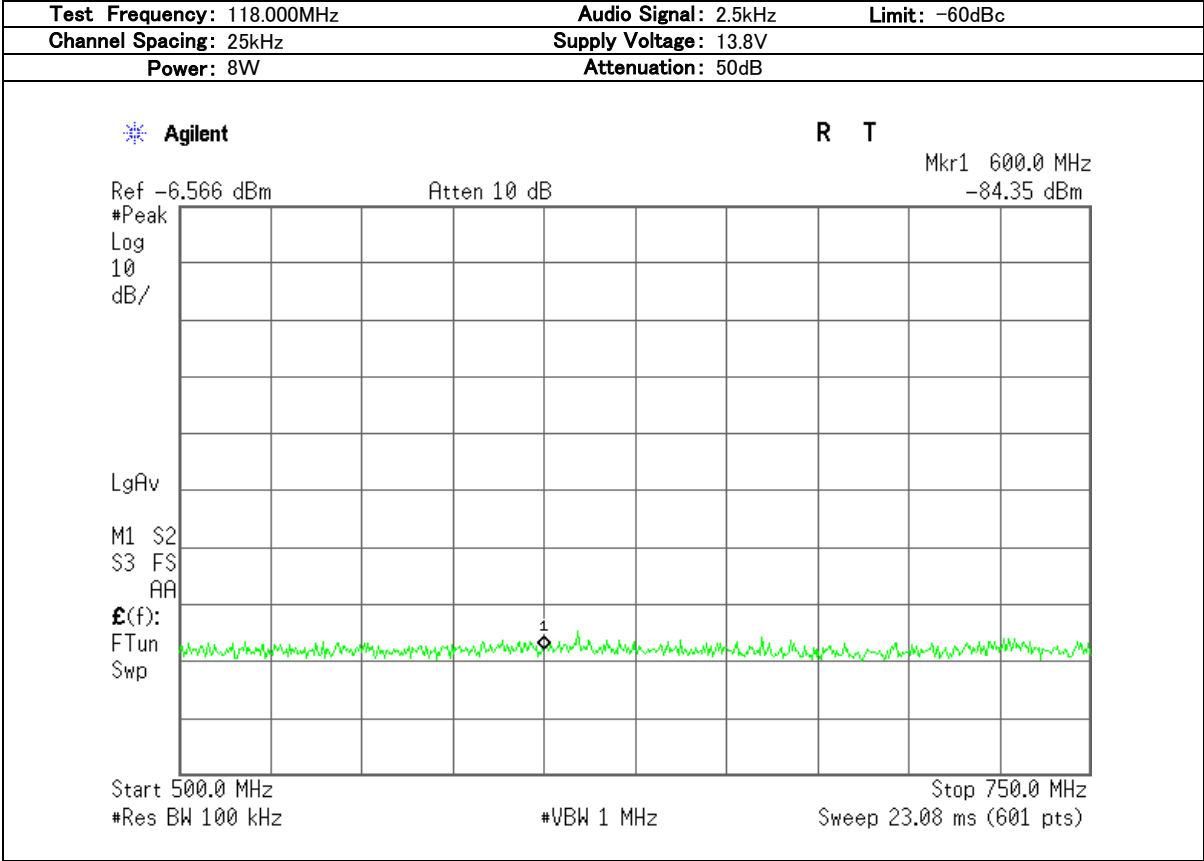
Plot 1 TX Conducted Emission



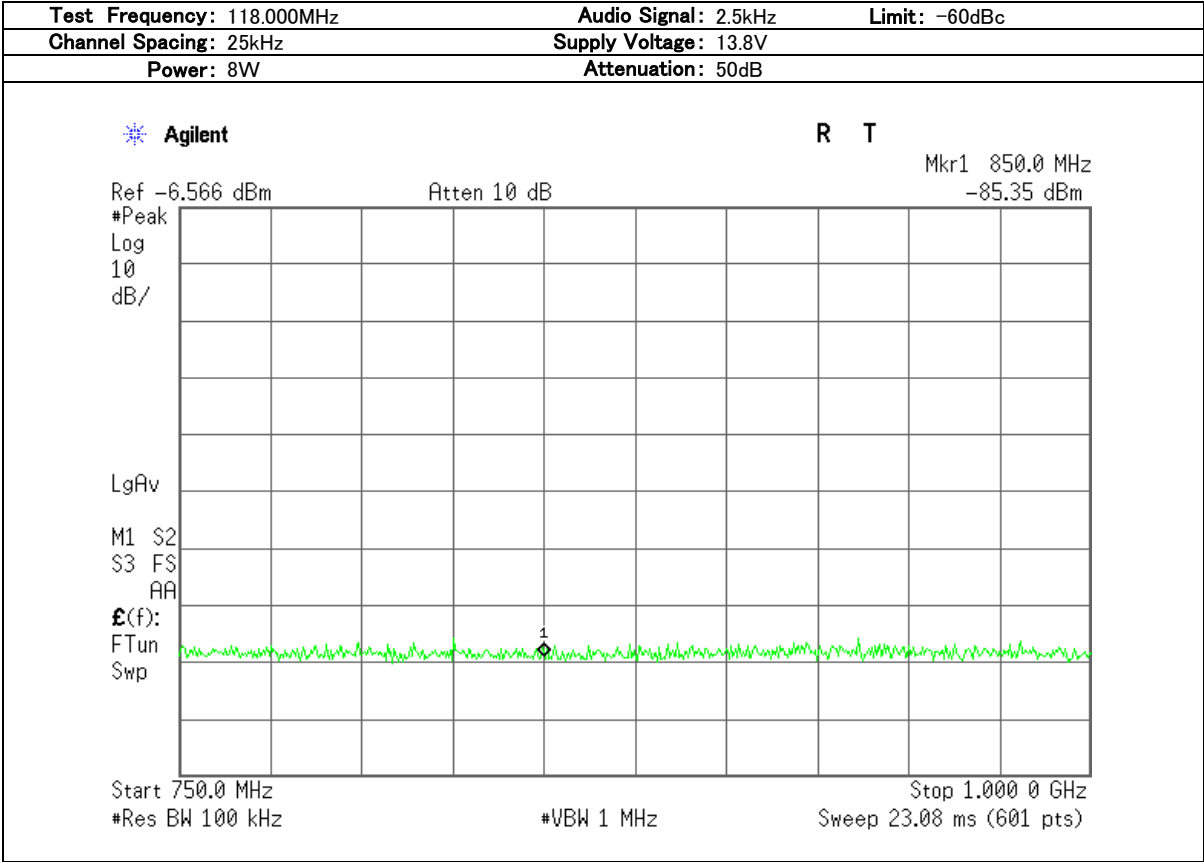
Plot 2 TX Conducted Emission



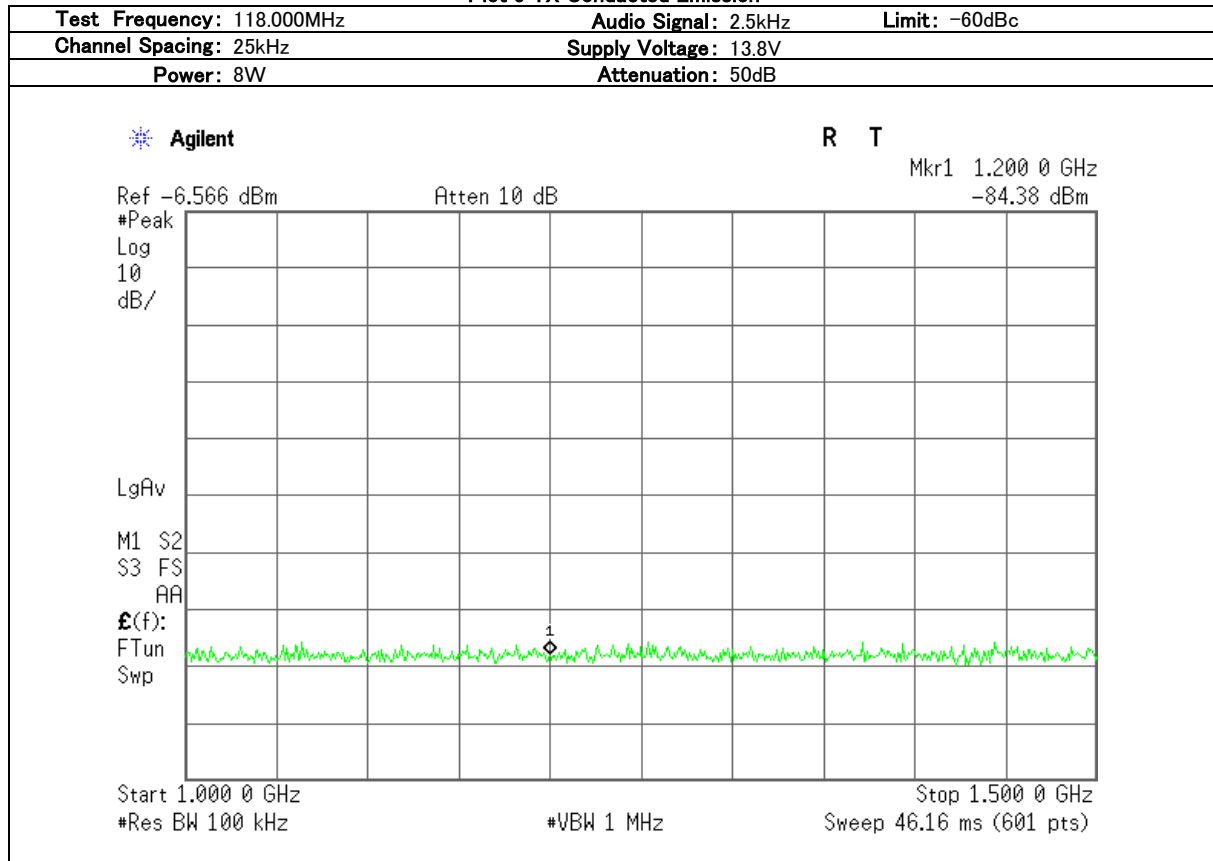
Plot 3 TX Conducted Emission



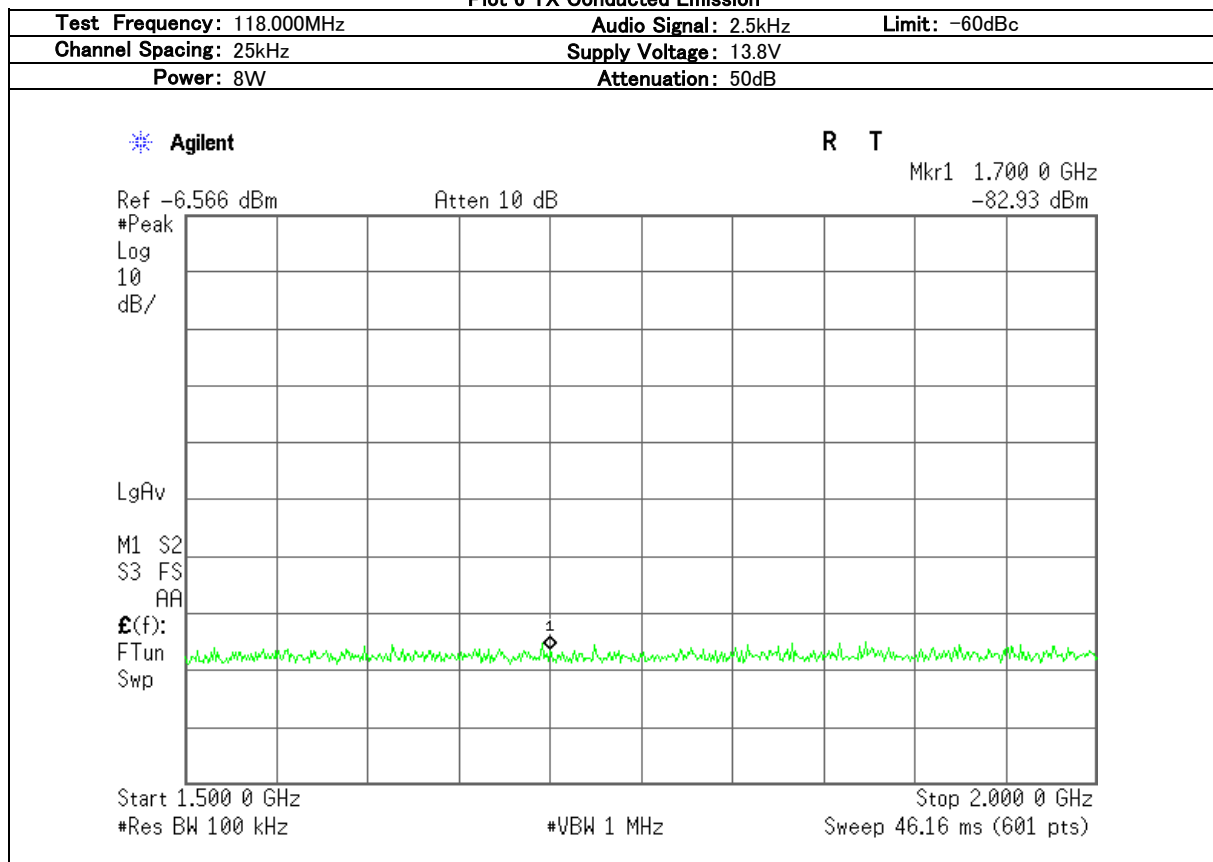
Plot 4 TX Conducted Emission



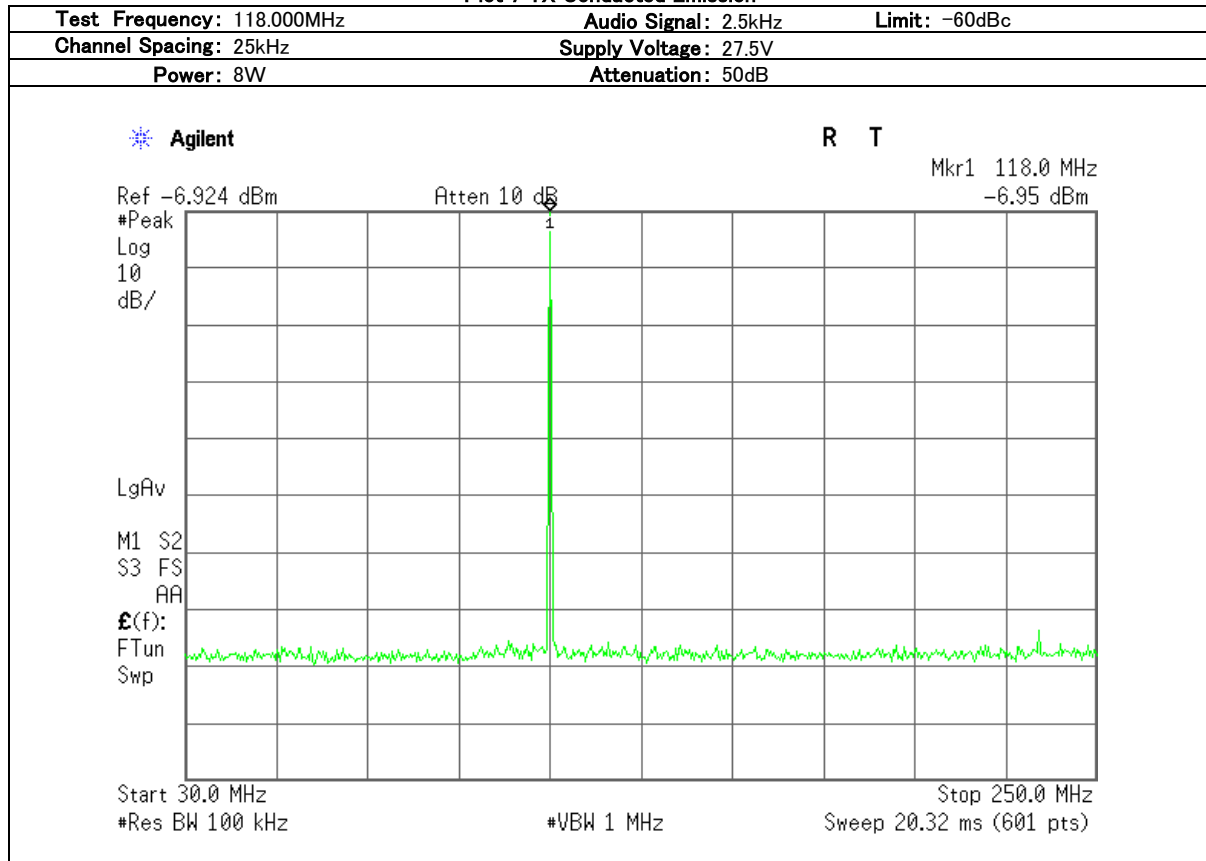
Plot 5 TX Conducted Emission



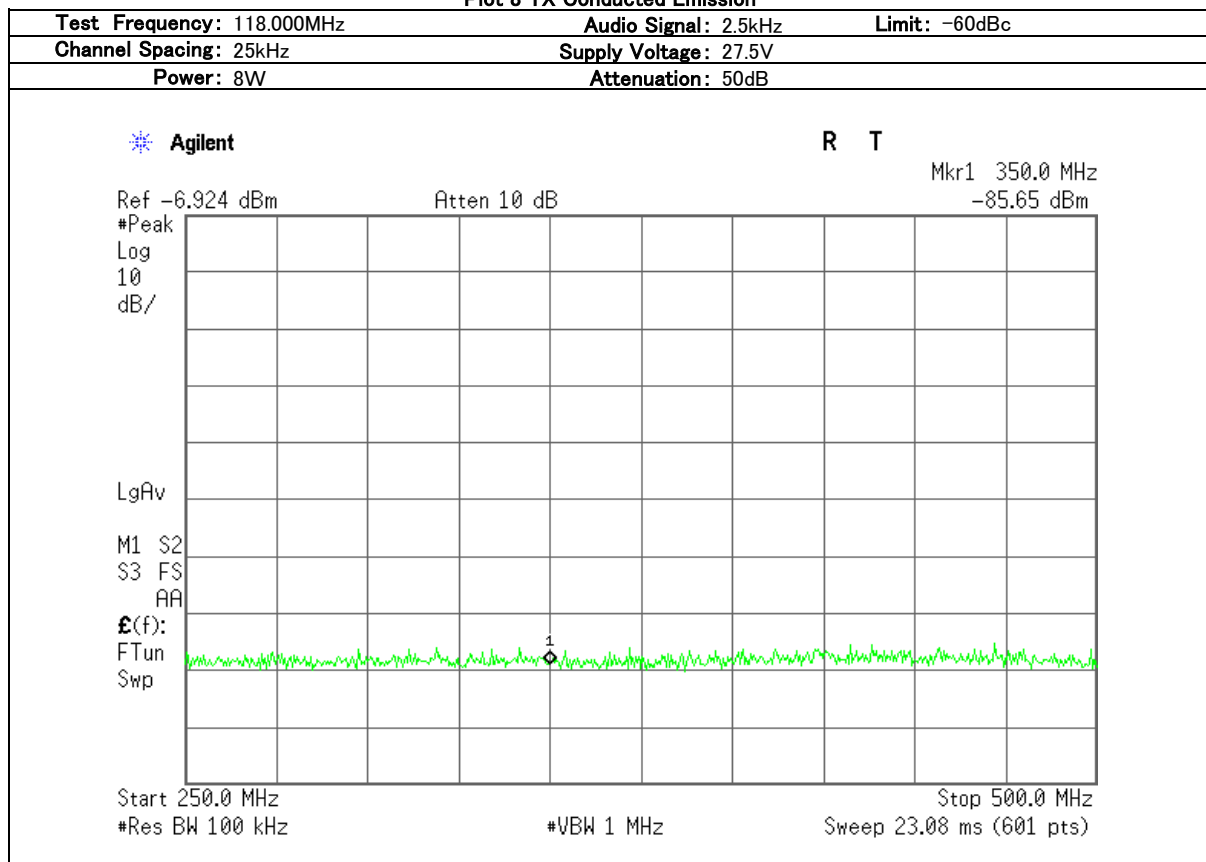
Plot 6 TX Conducted Emission



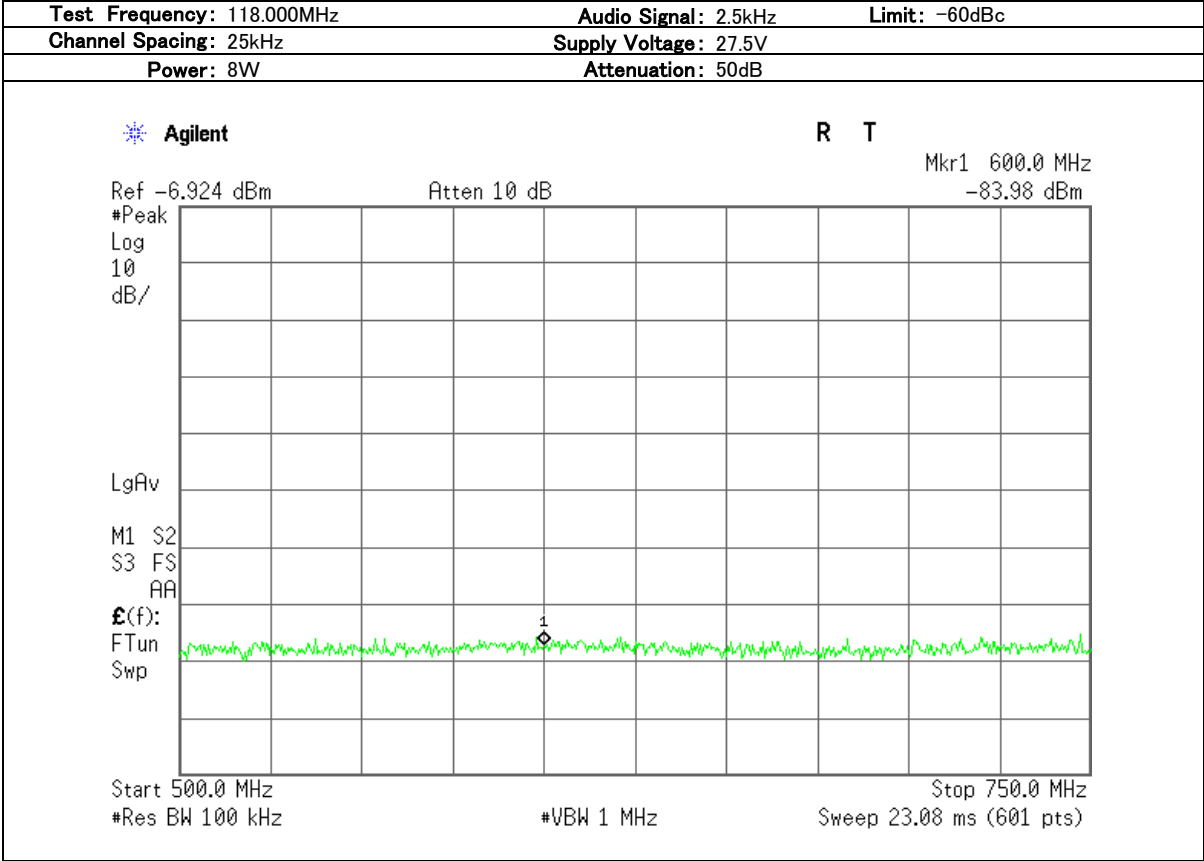
Plot 7 TX Conducted Emission



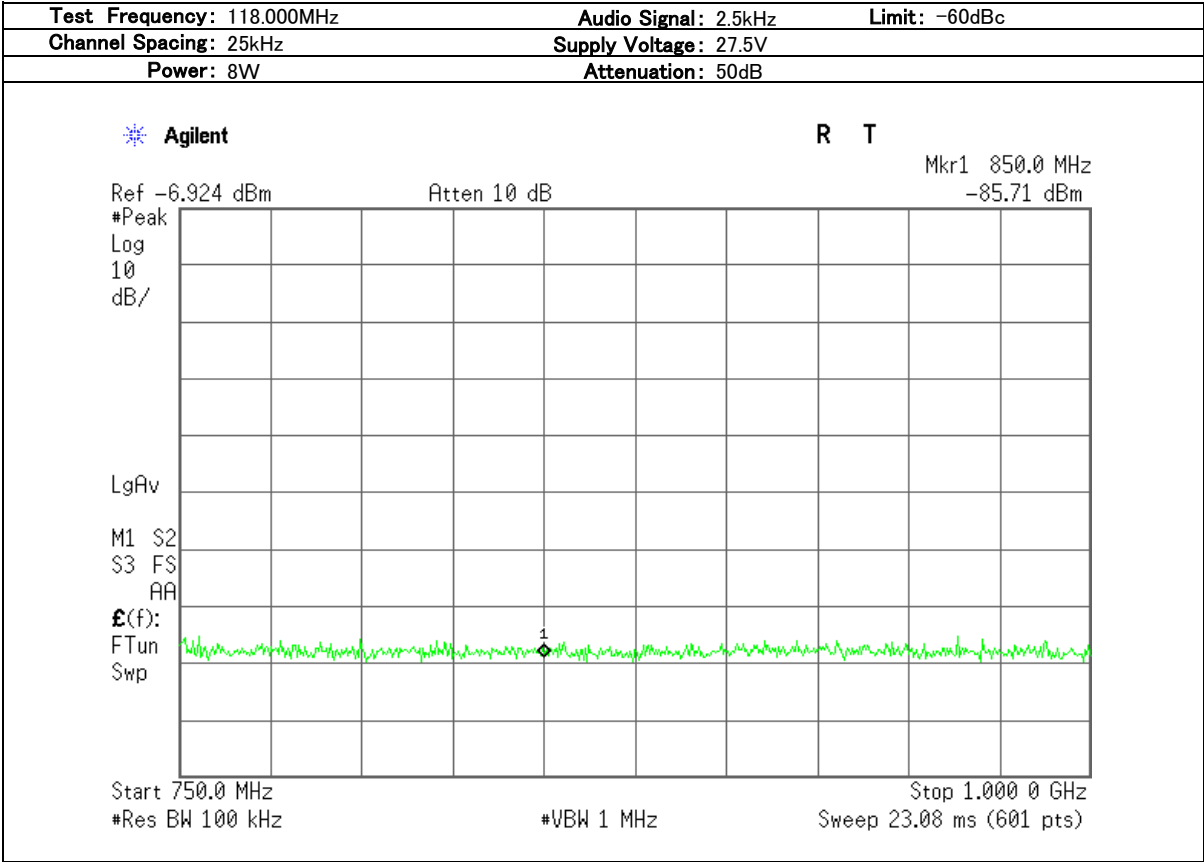
Plot 8 TX Conducted Emission



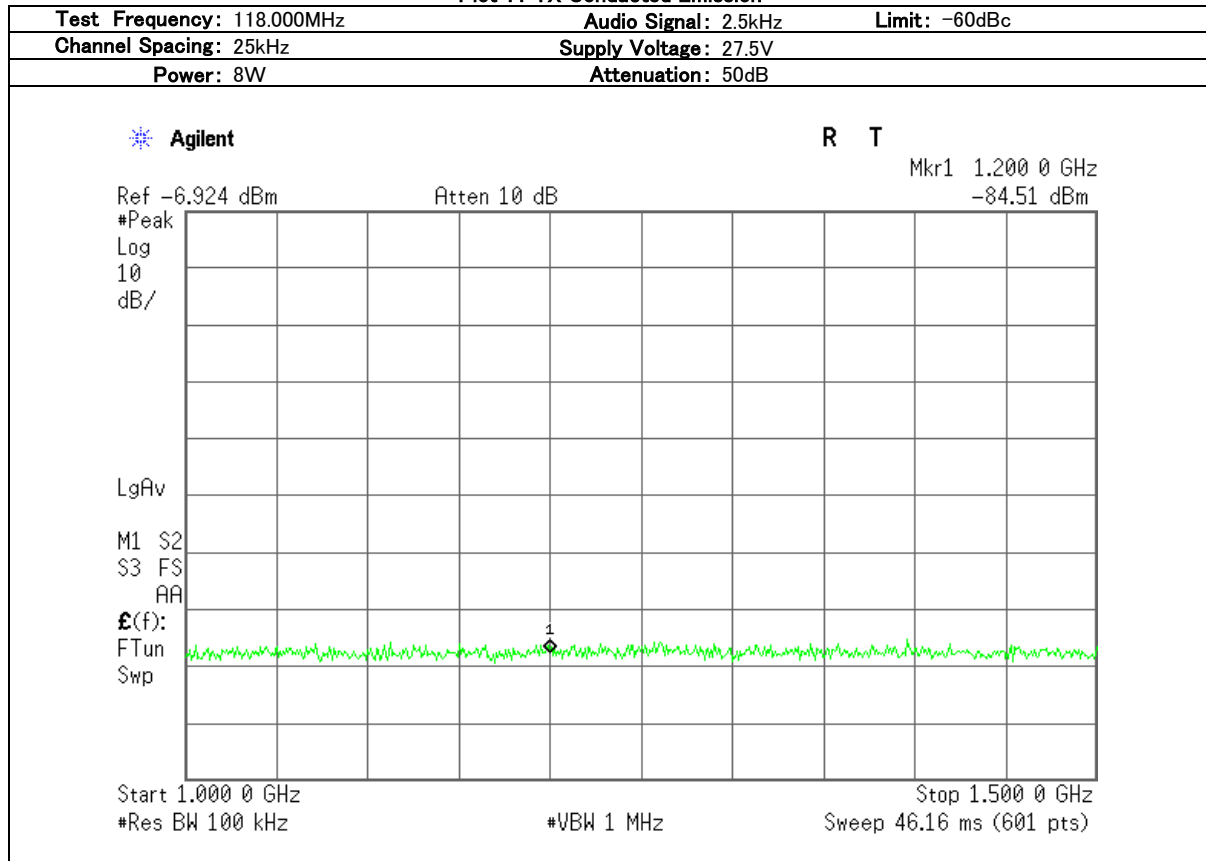
Plot 9 TX Conducted Emission



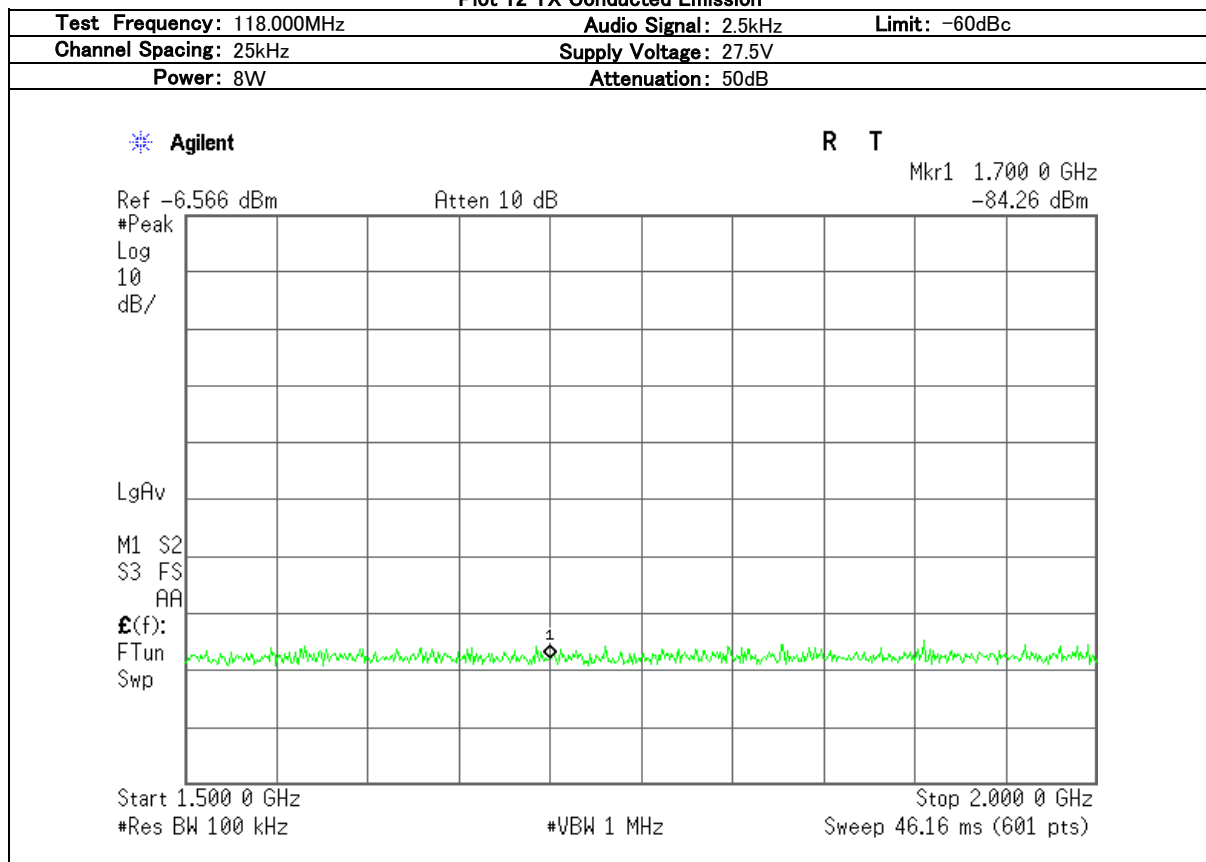
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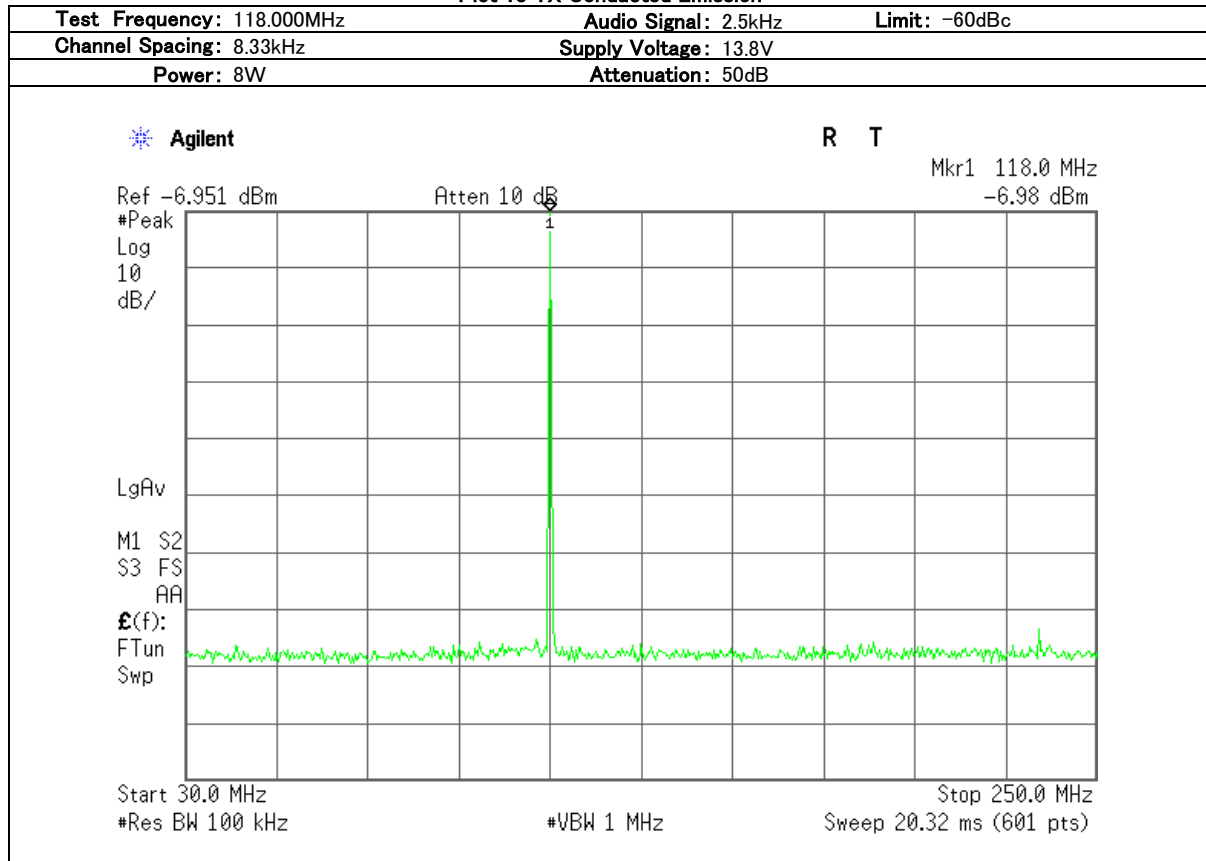
Plot 11 TX Conducted Emission



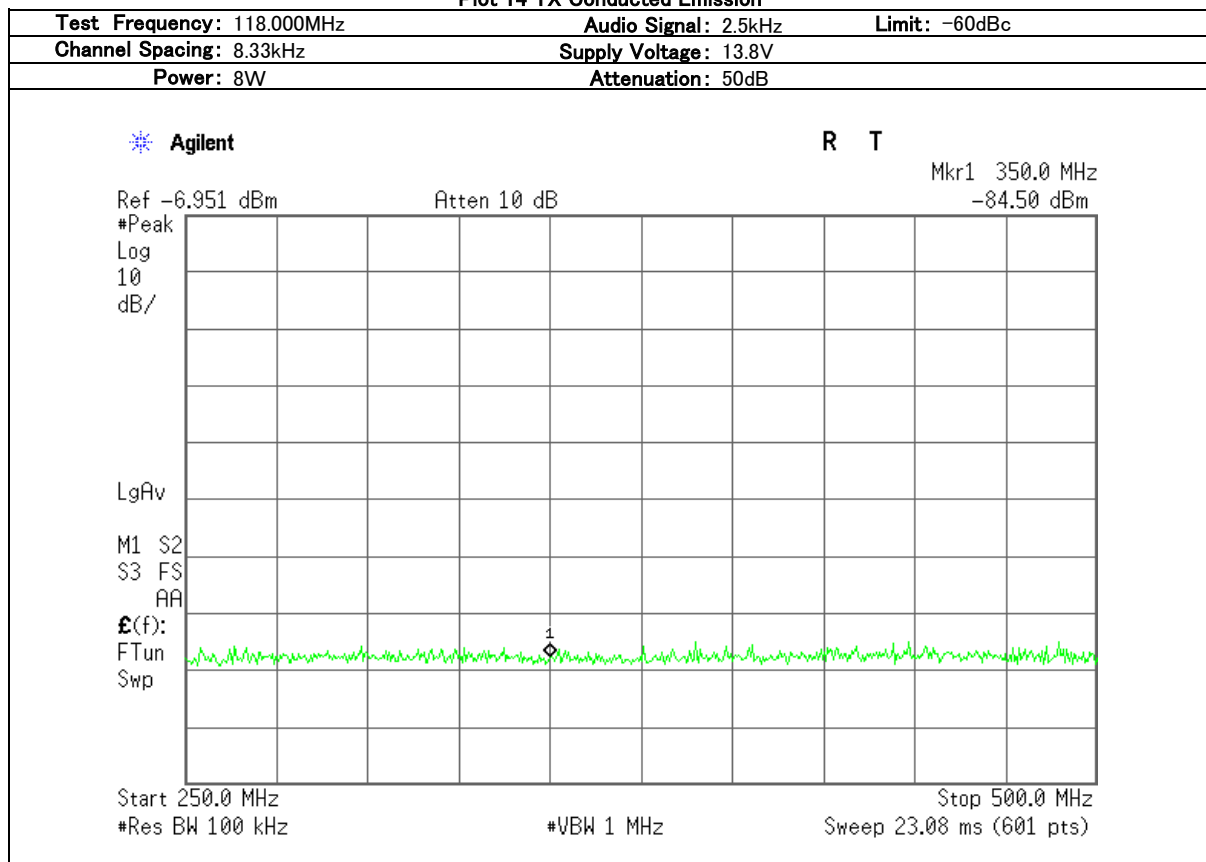
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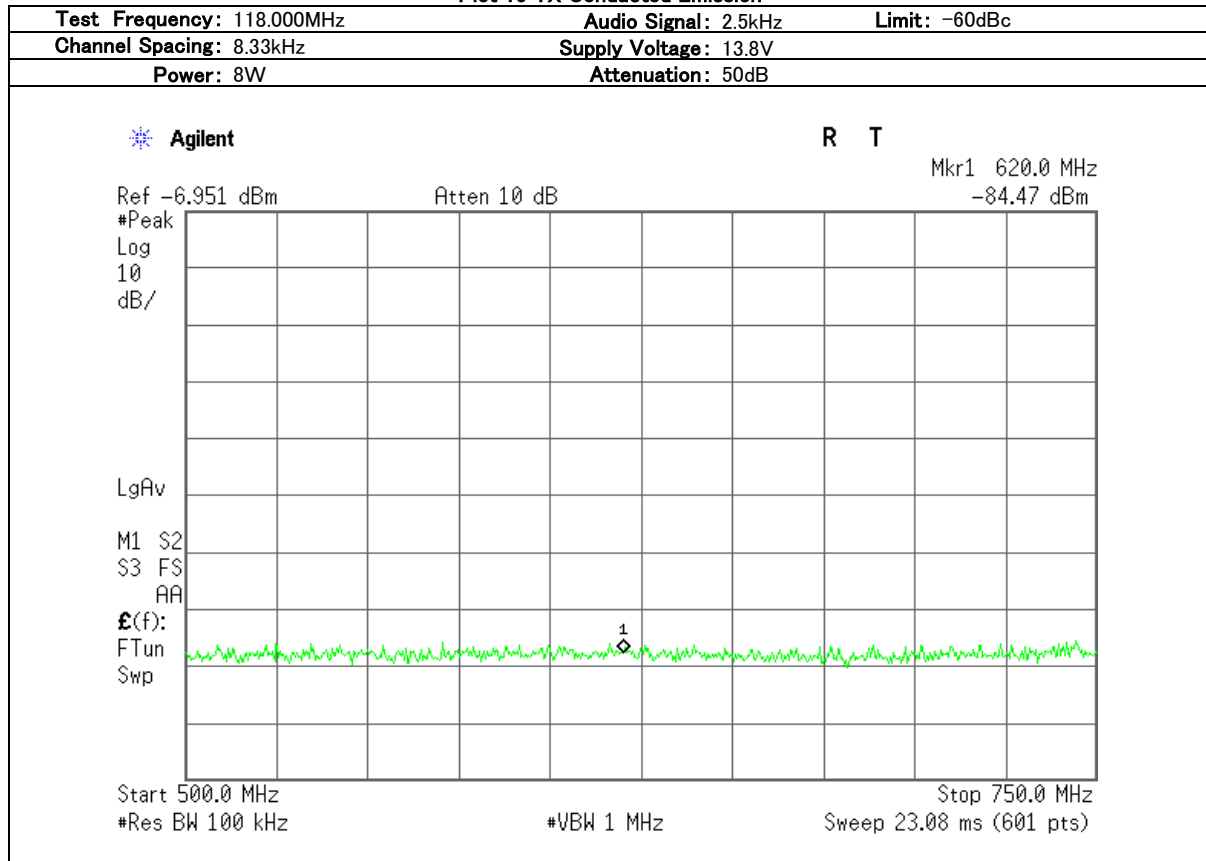
Plot 13 TX Conducted Emission



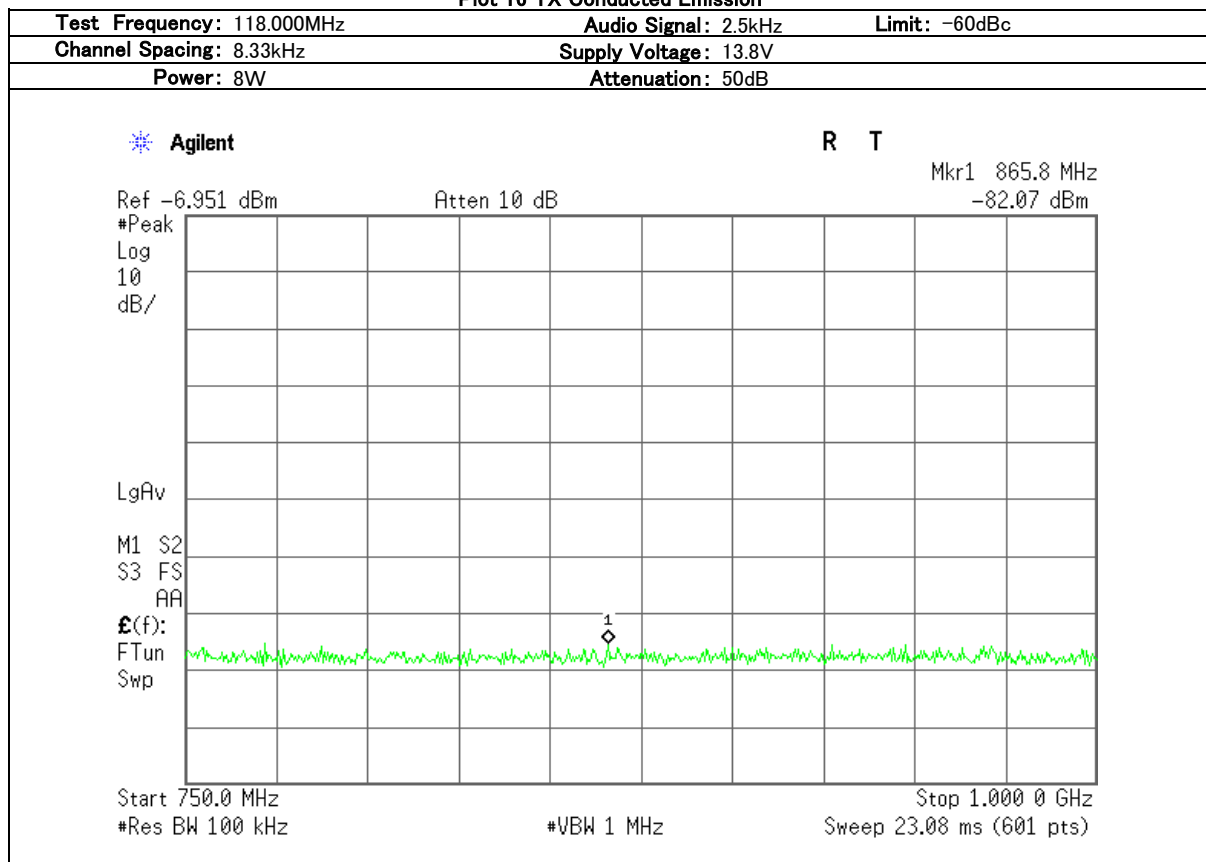
Plot 14 TX Conducted Emission



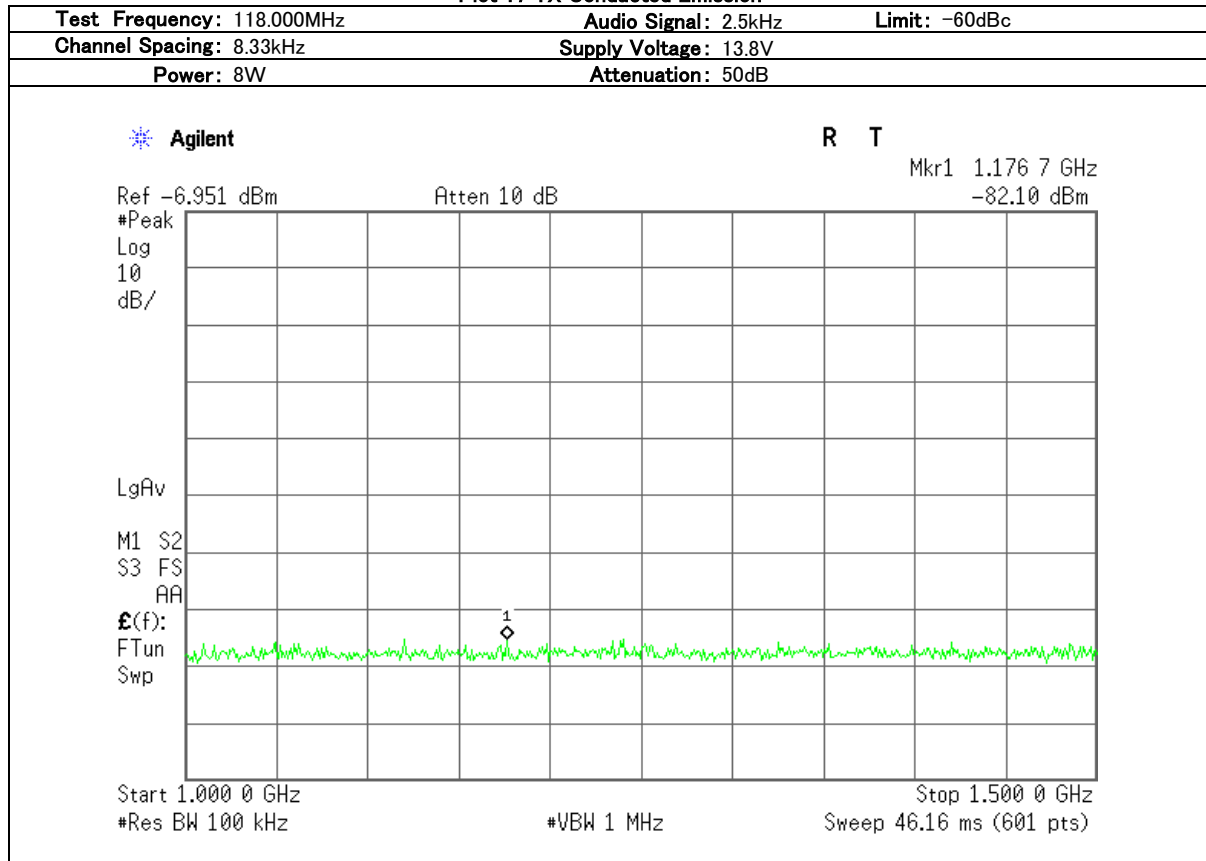
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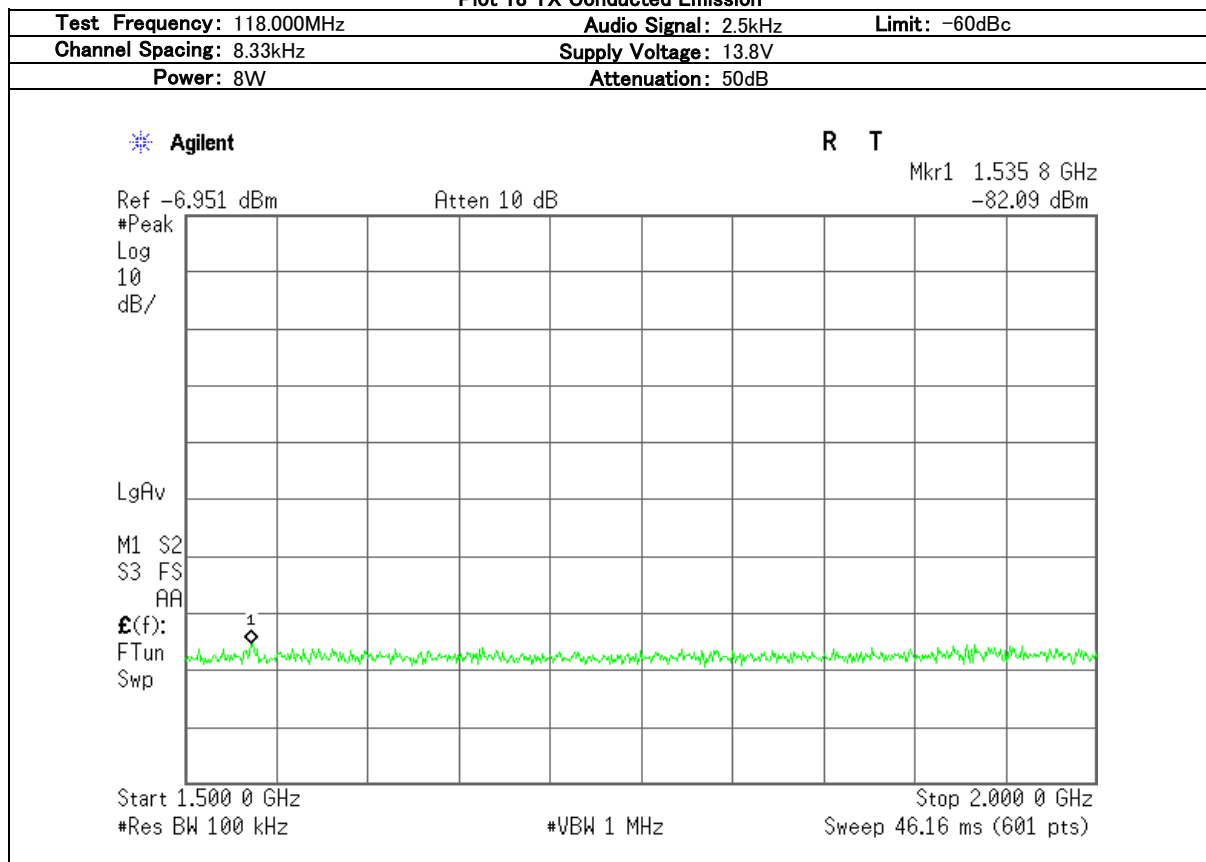
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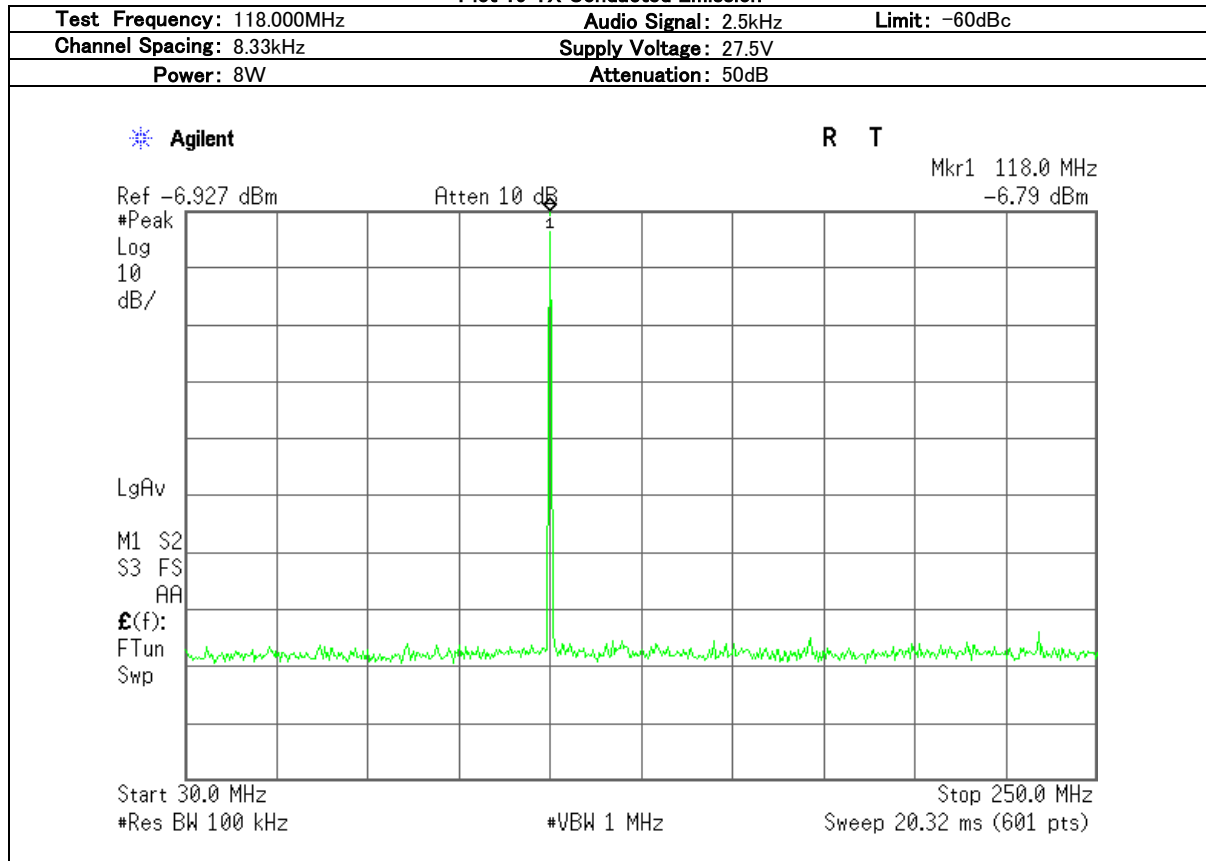
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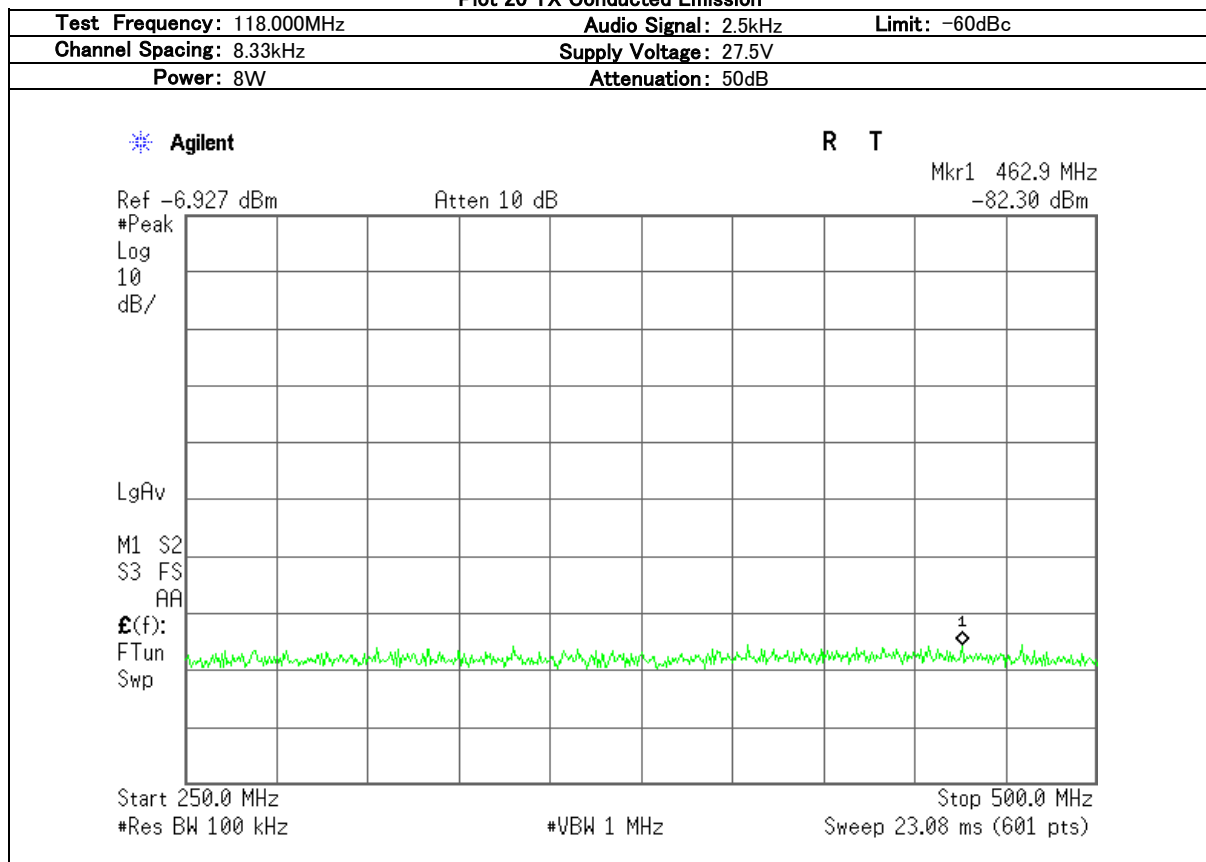
Plot 18 TX Conducted Emission



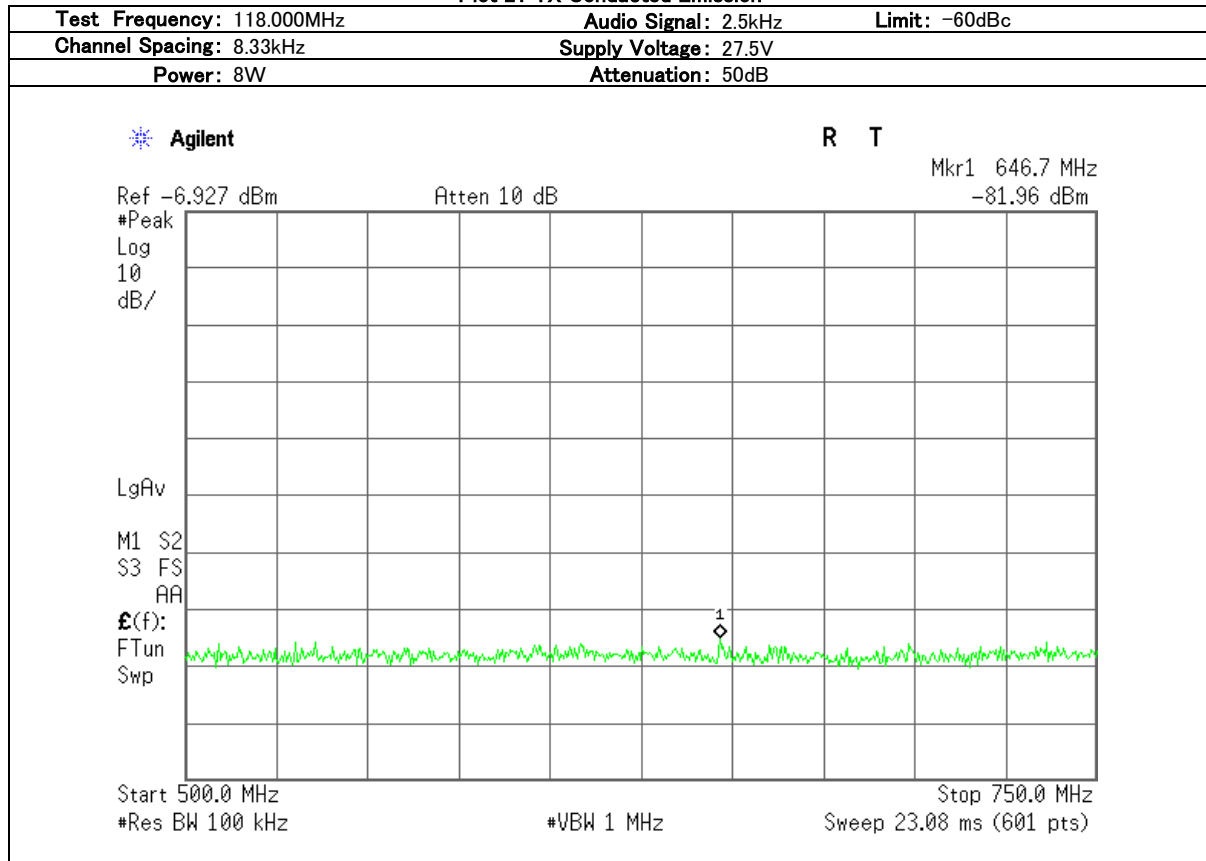
Plot 19 TX Conducted Emission



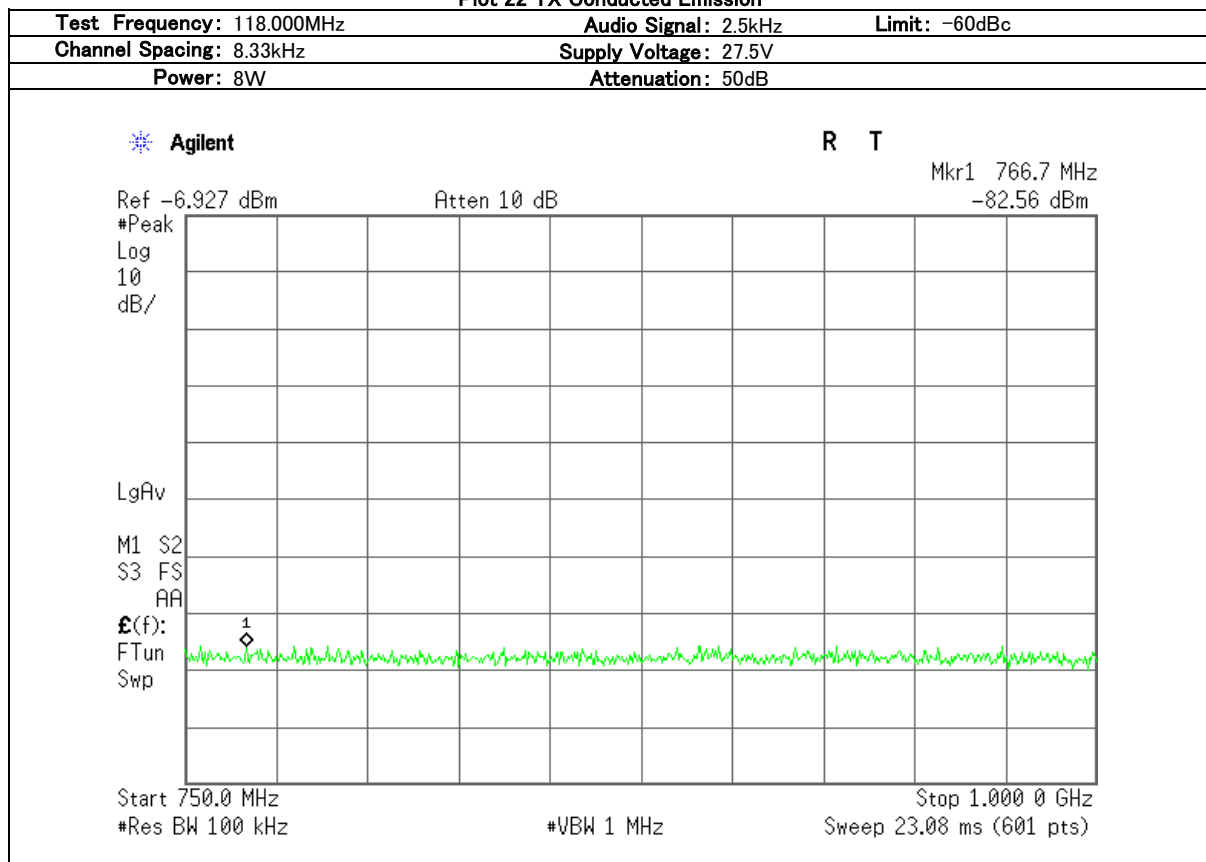
Plot 20 TX Conducted Emission



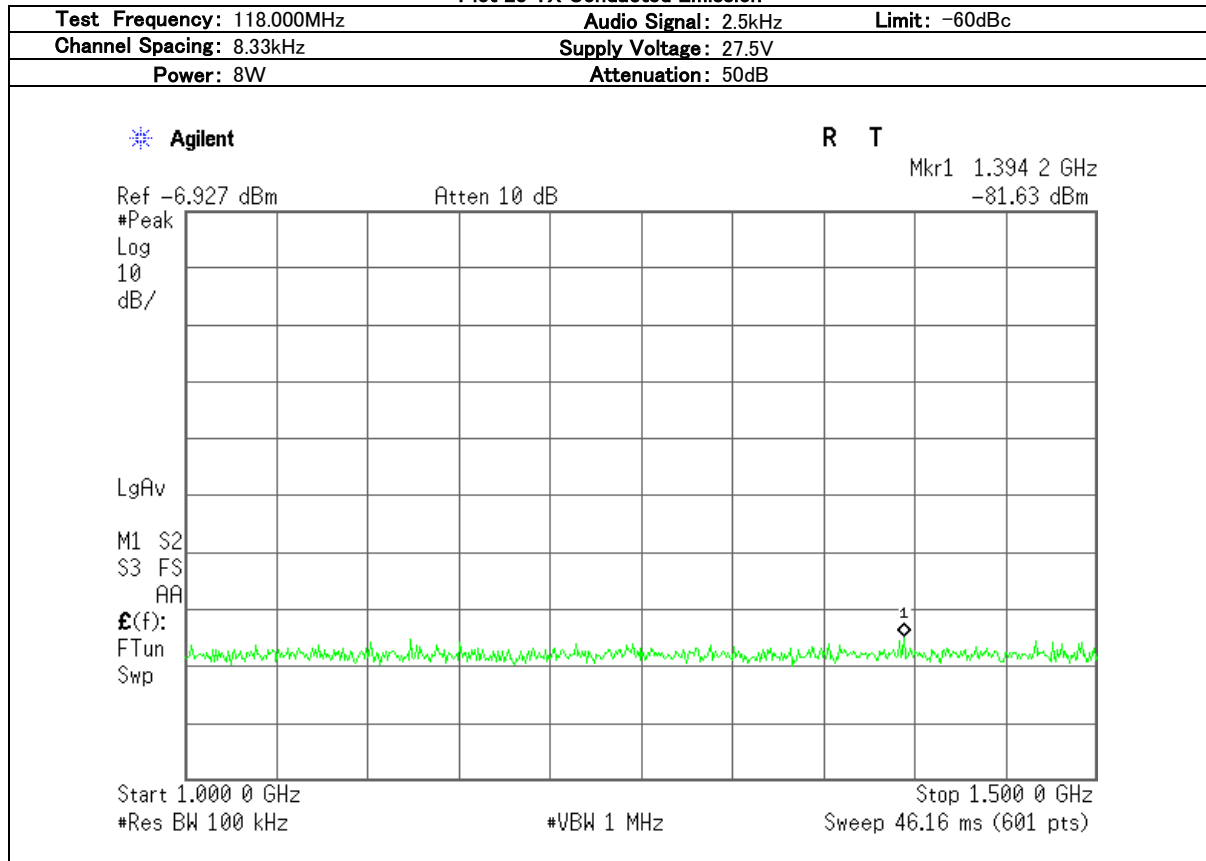
Plot 21 TX Conducted Emission



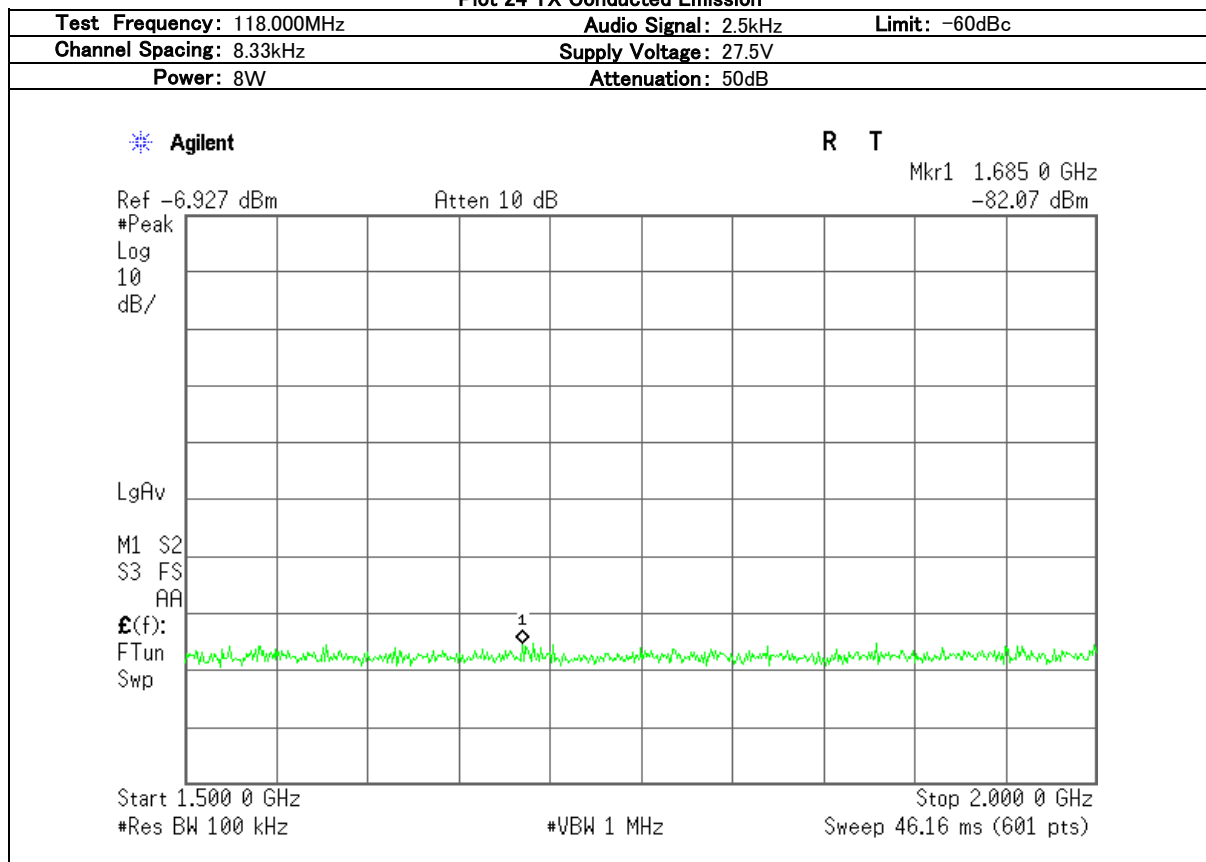
Plot 22 TX Conducted Emission



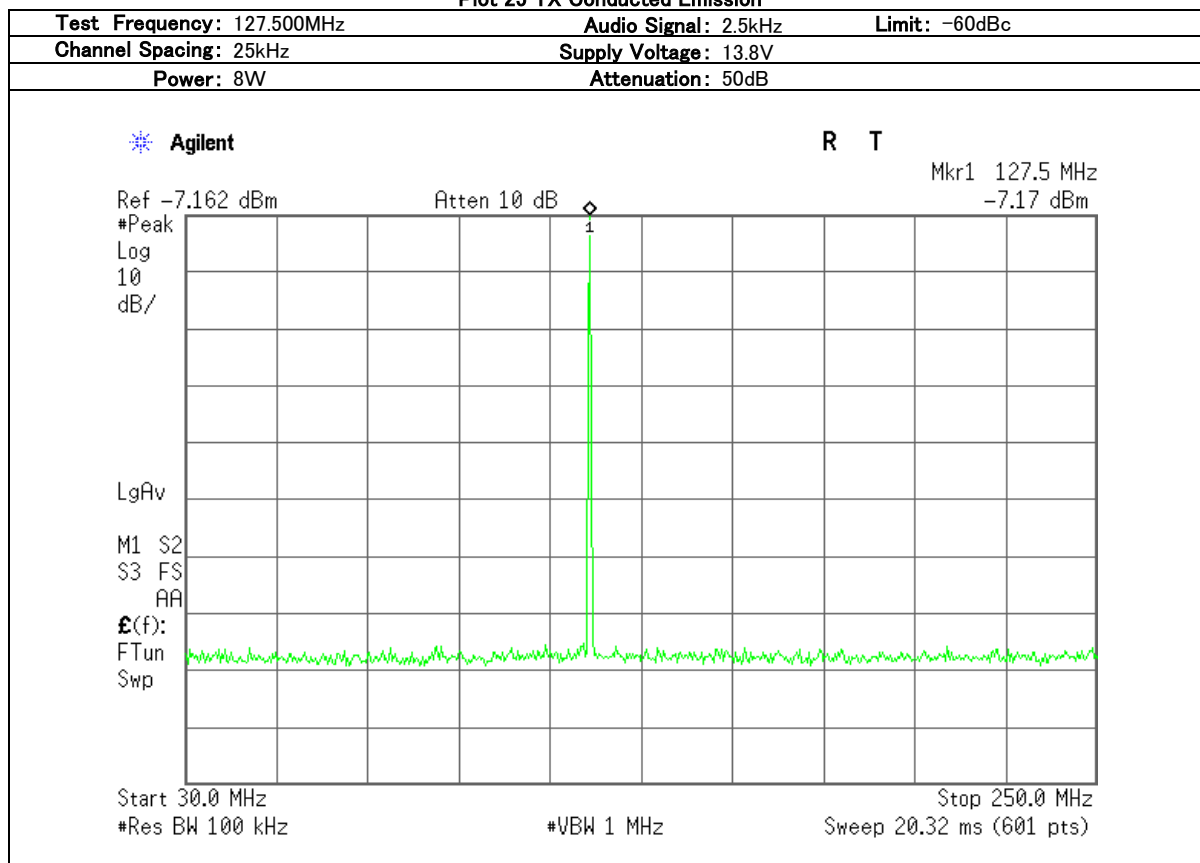
Plot 23 TX Conducted Emission



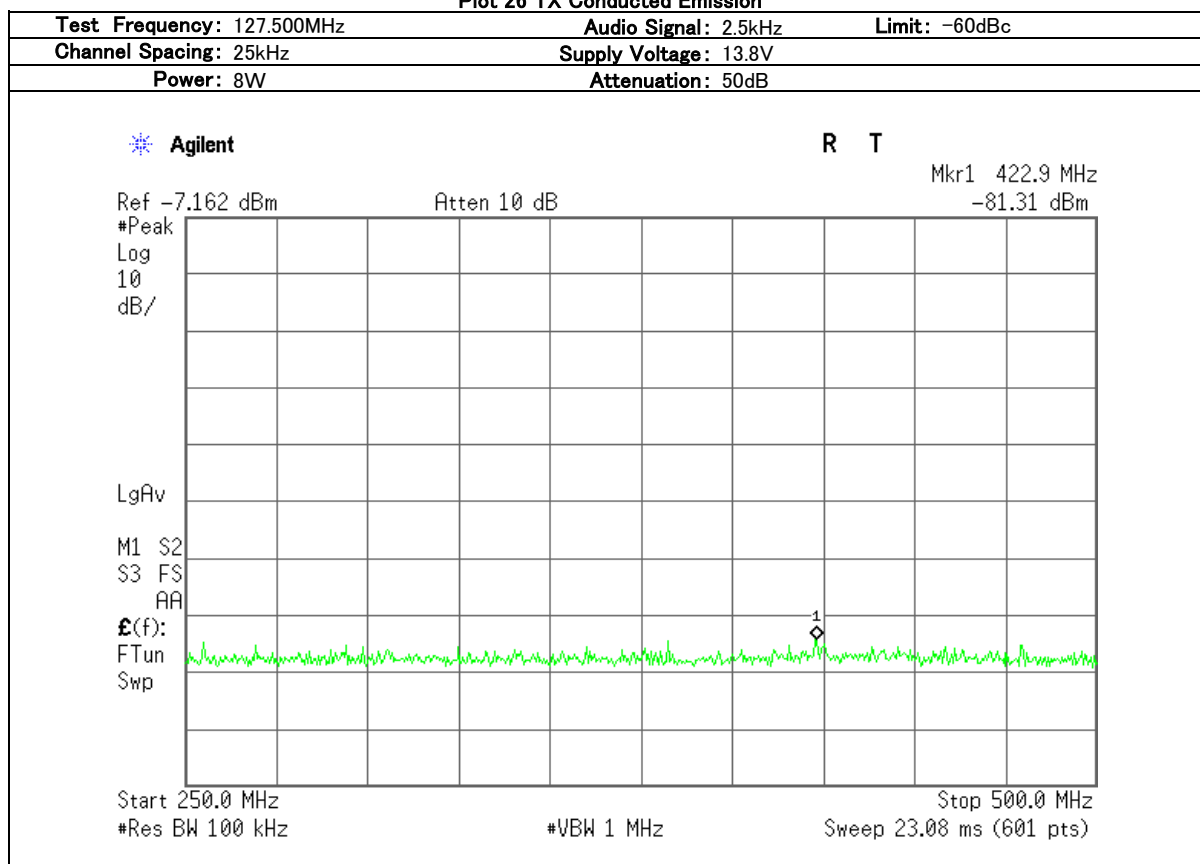
Plot 24 TX Conducted Emission



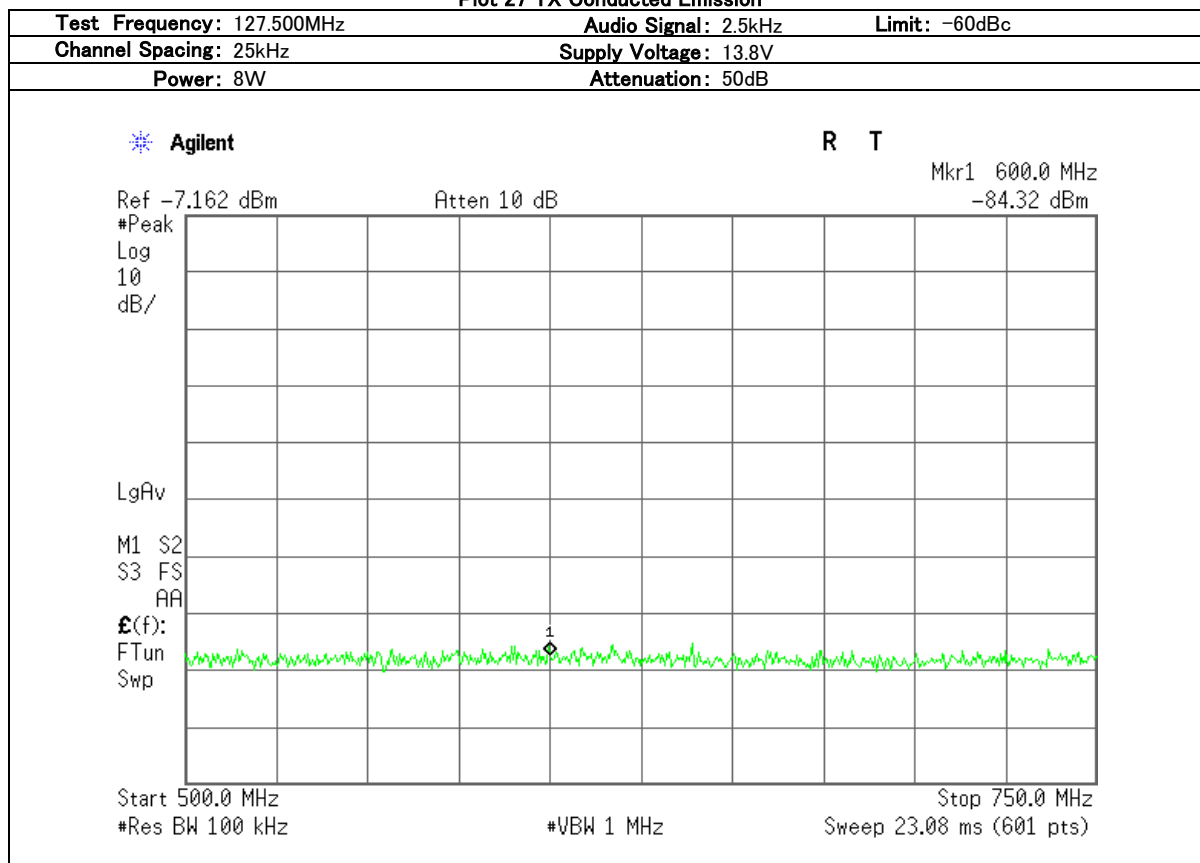
Plot 25 TX Conducted Emission



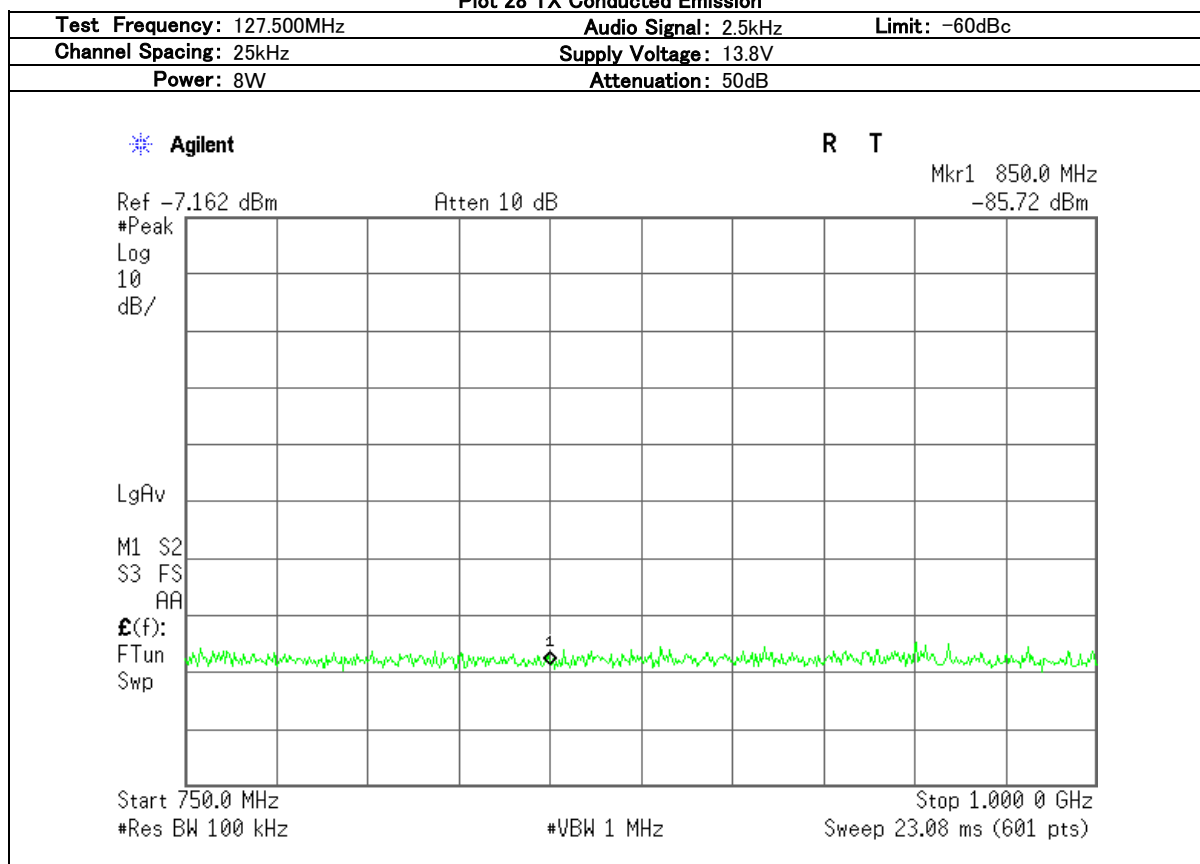
Plot 26 TX Conducted Emission



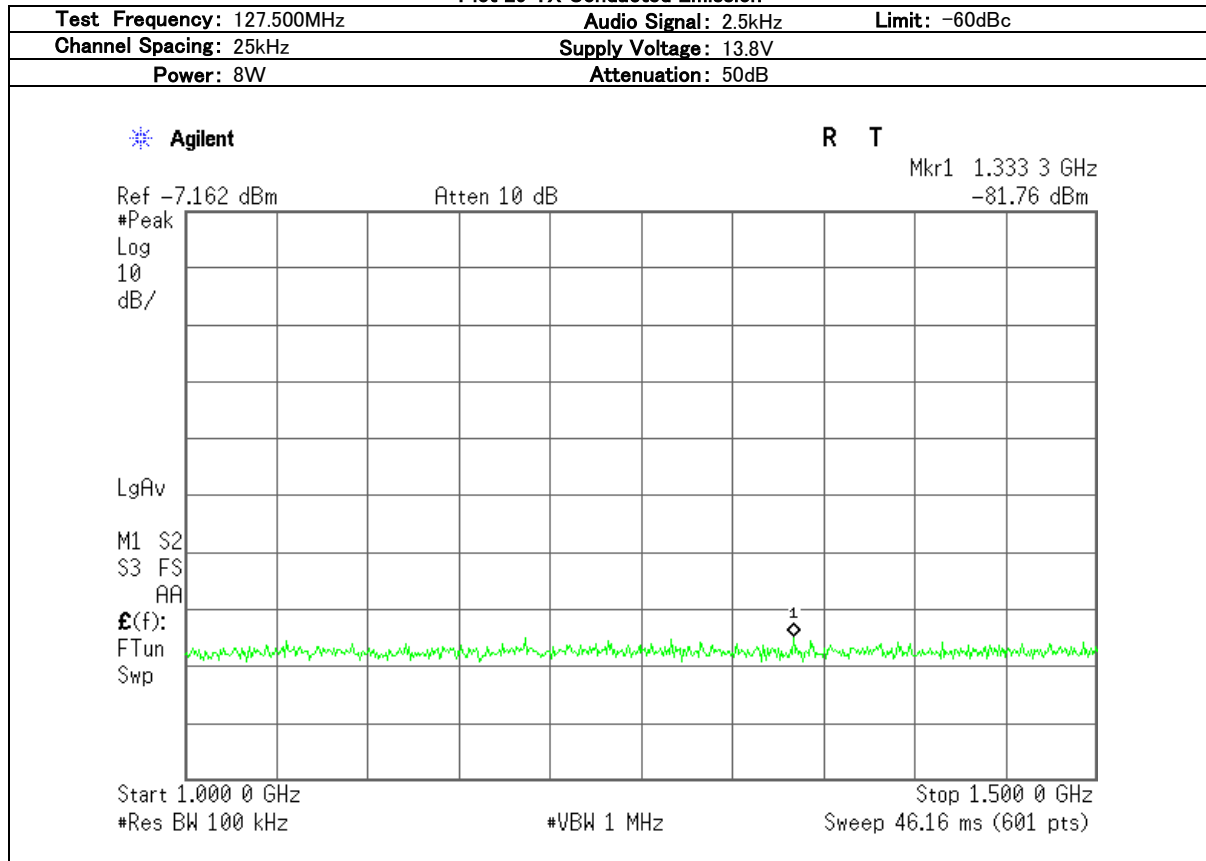
Plot 27 TX Conducted Emission



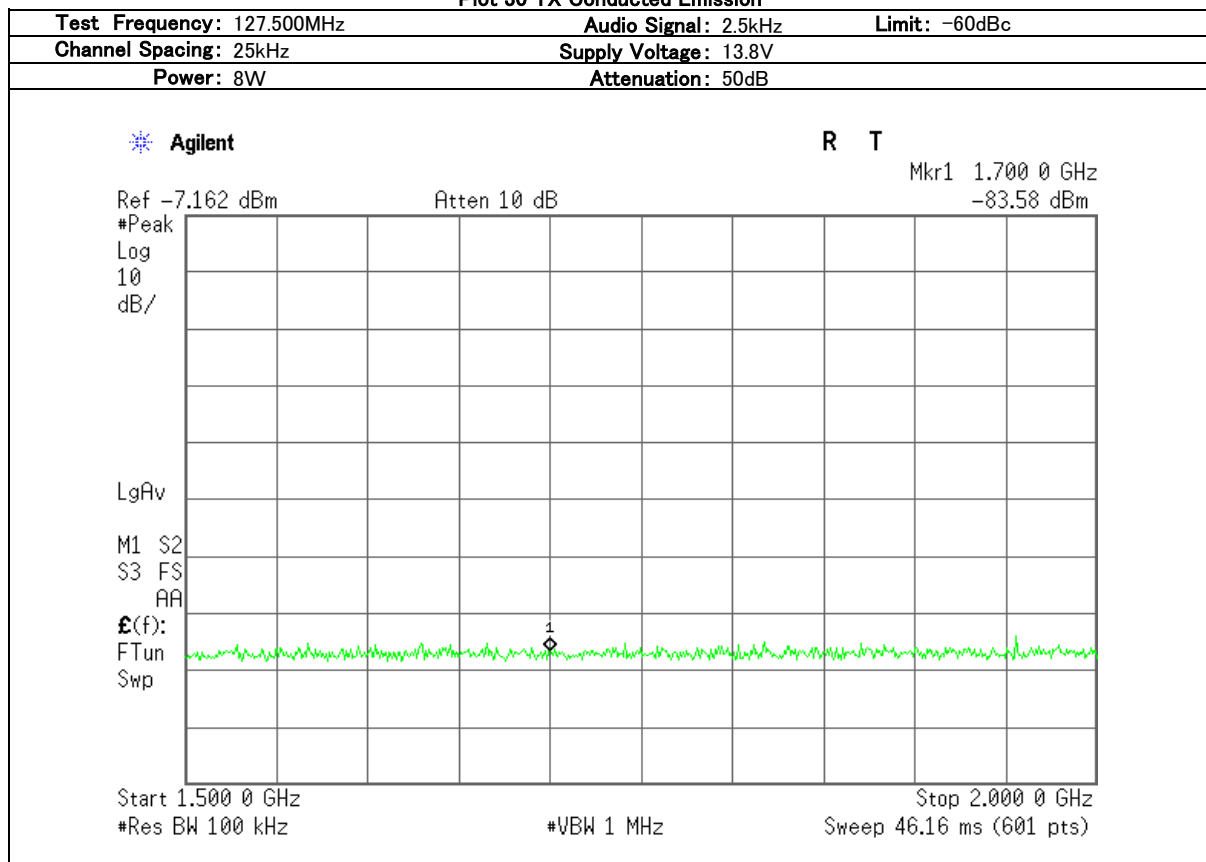
Plot 28 TX Conducted Emission



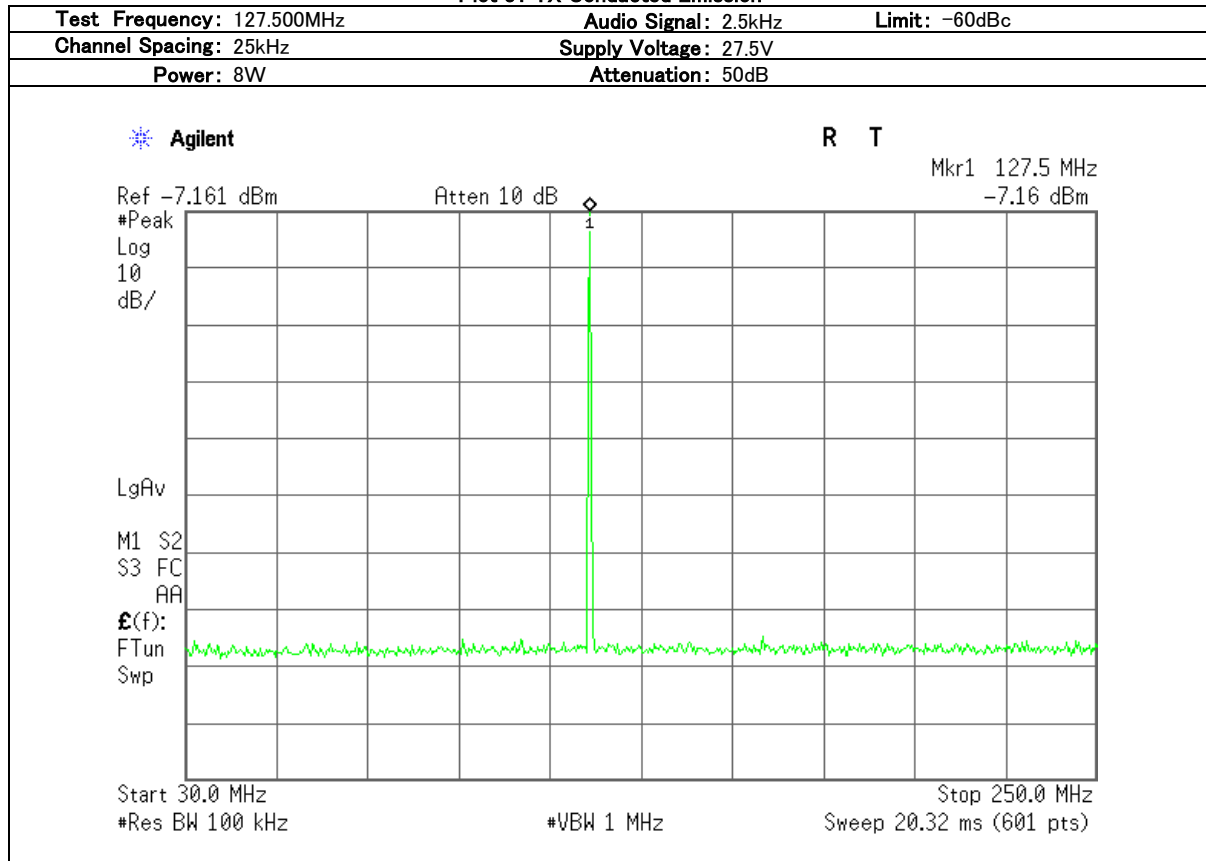
Plot 29 TX Conducted Emission



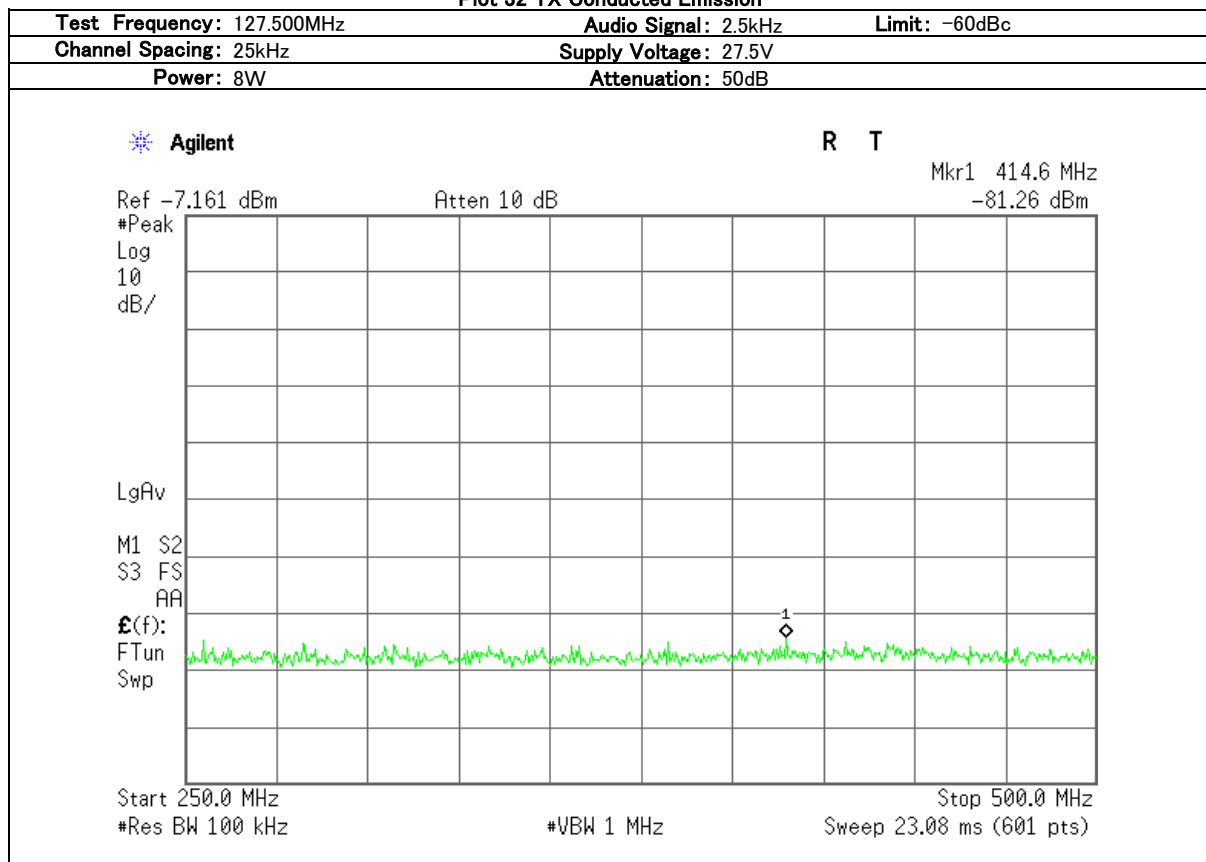
Plot 30 TX Conducted Emission



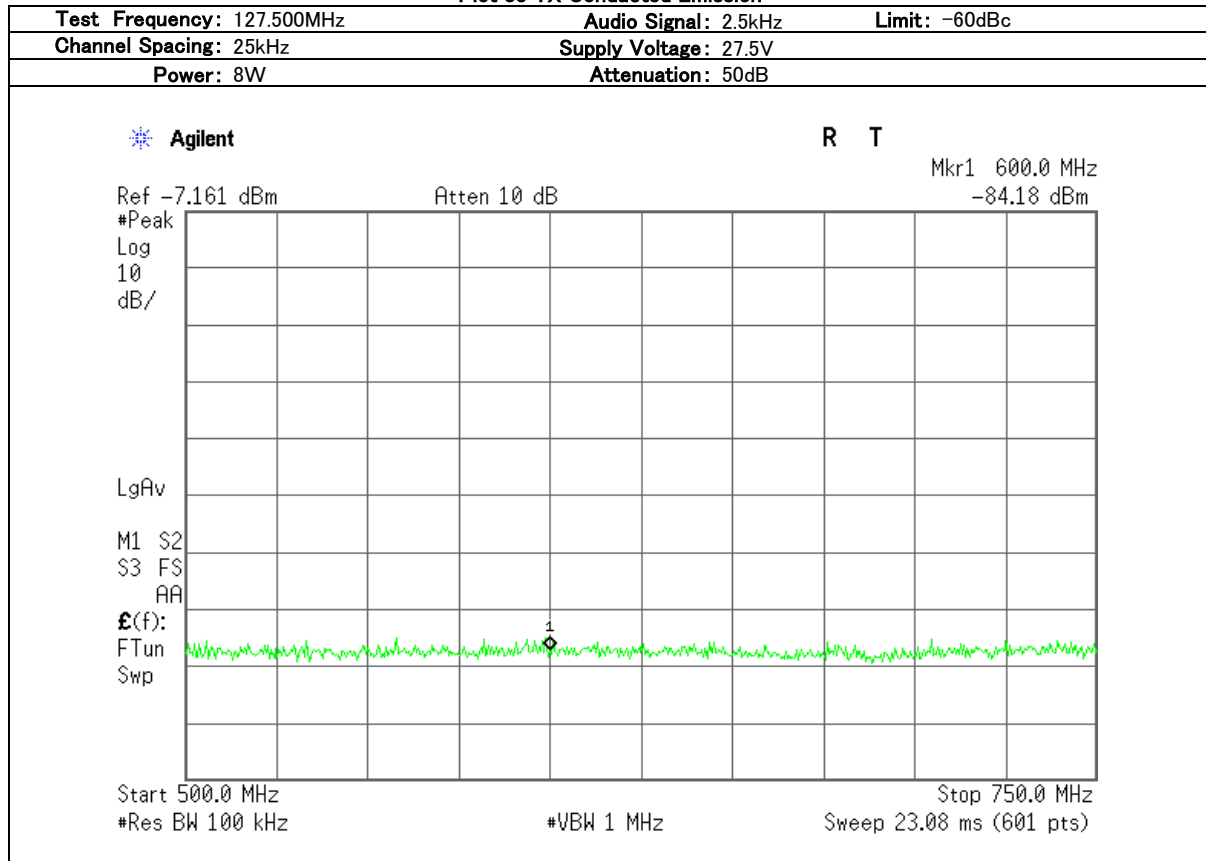
Plot 31 TX Conducted Emission



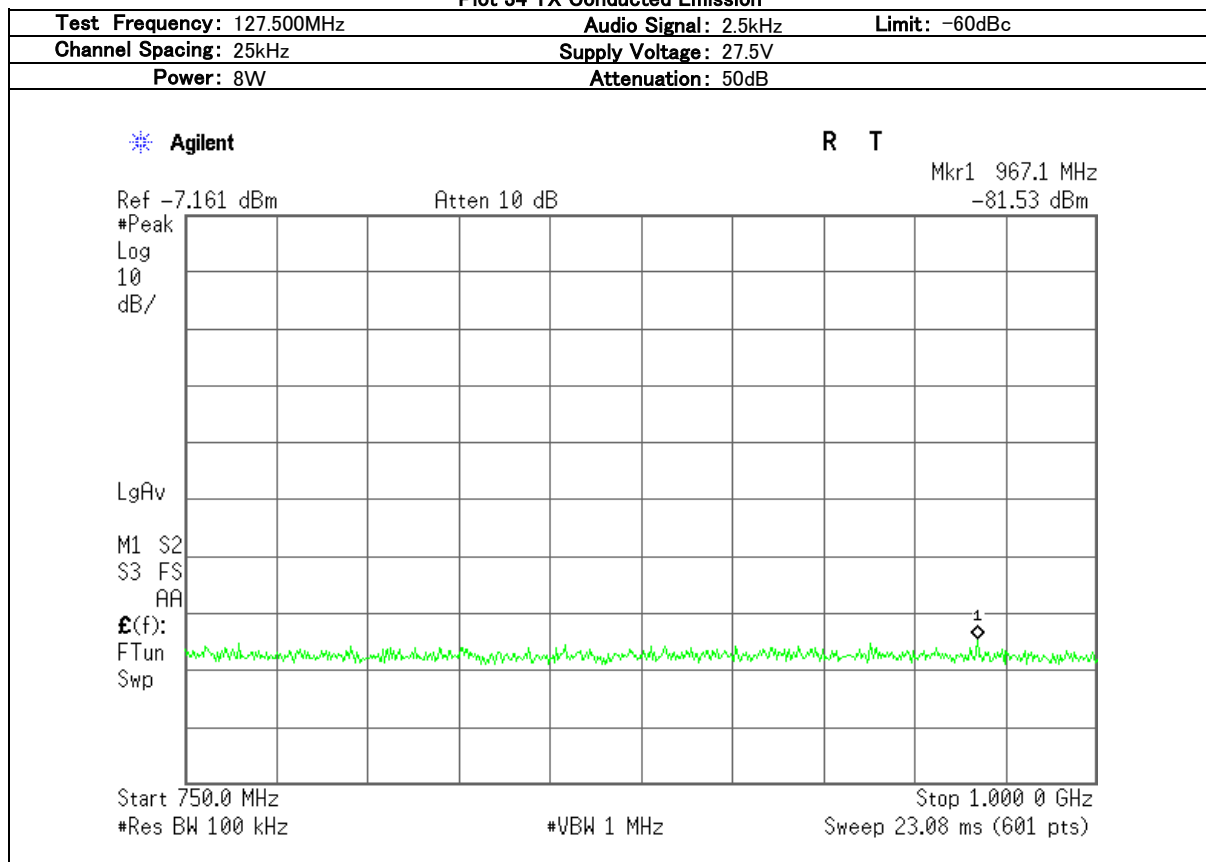
Plot 32 TX Conducted Emission



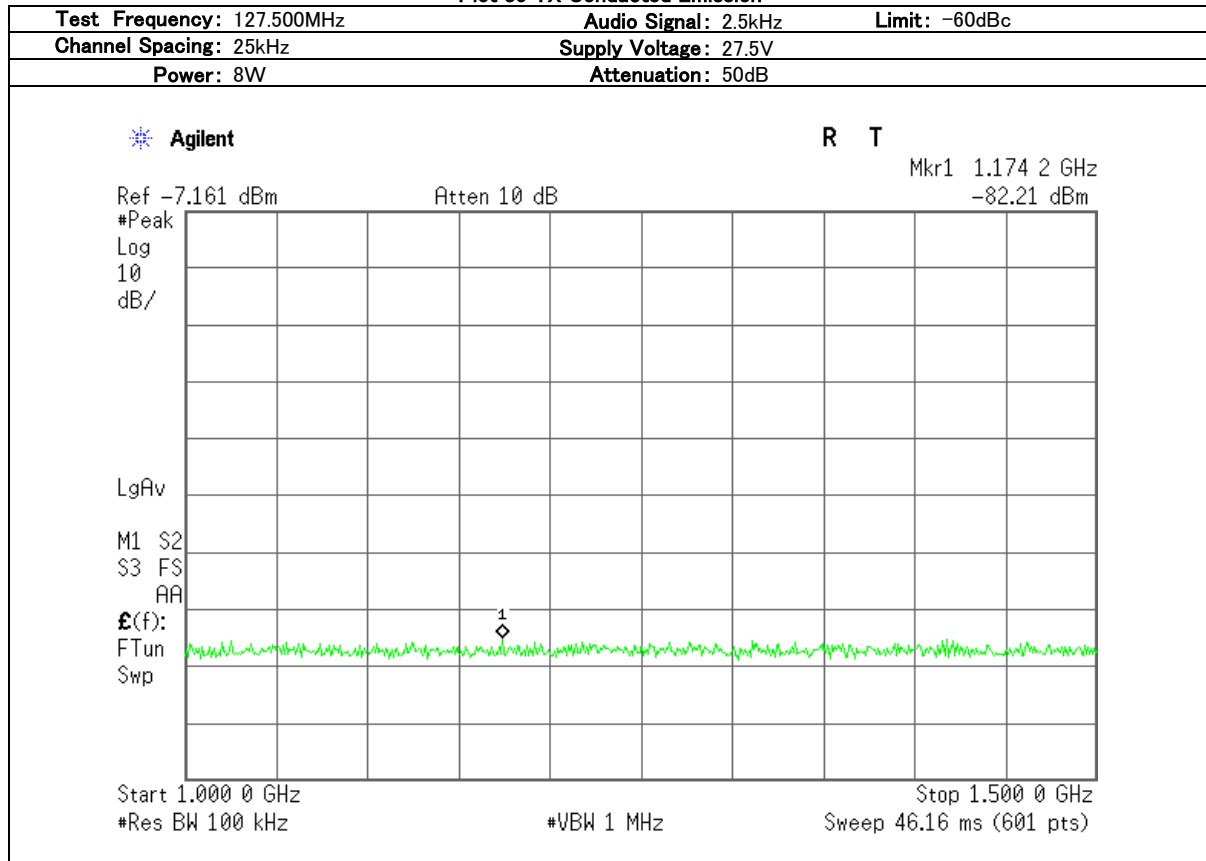
Plot 33 TX Conducted Emission



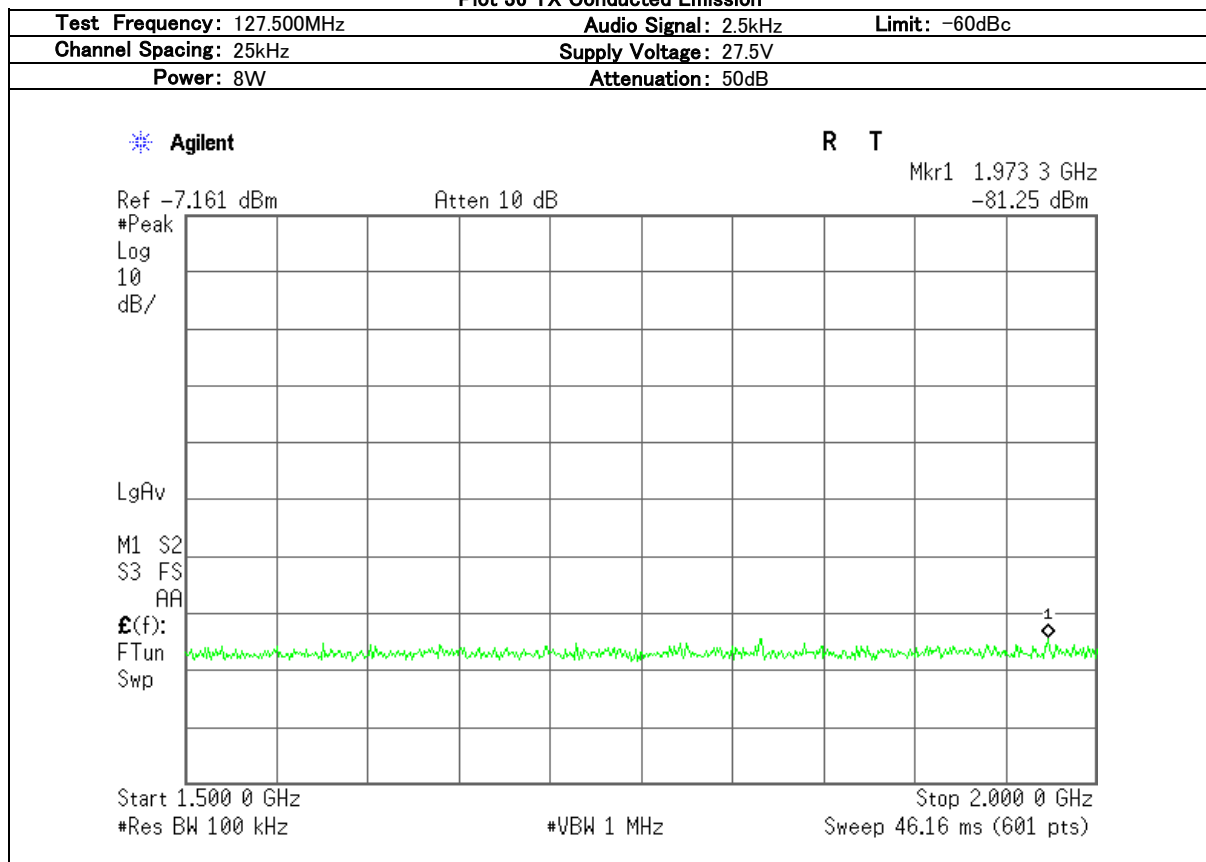
Plot 34 TX Conducted Emission



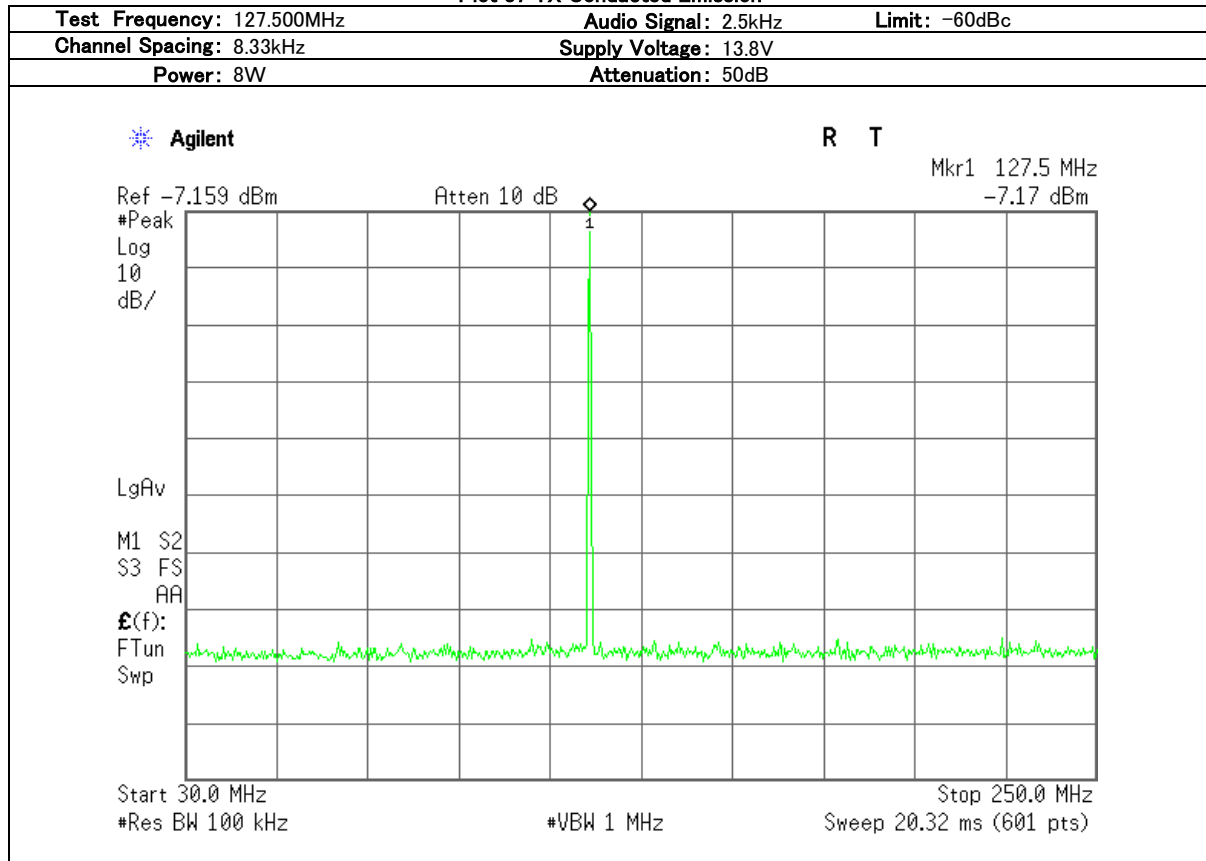
Plot 35 TX Conducted Emission



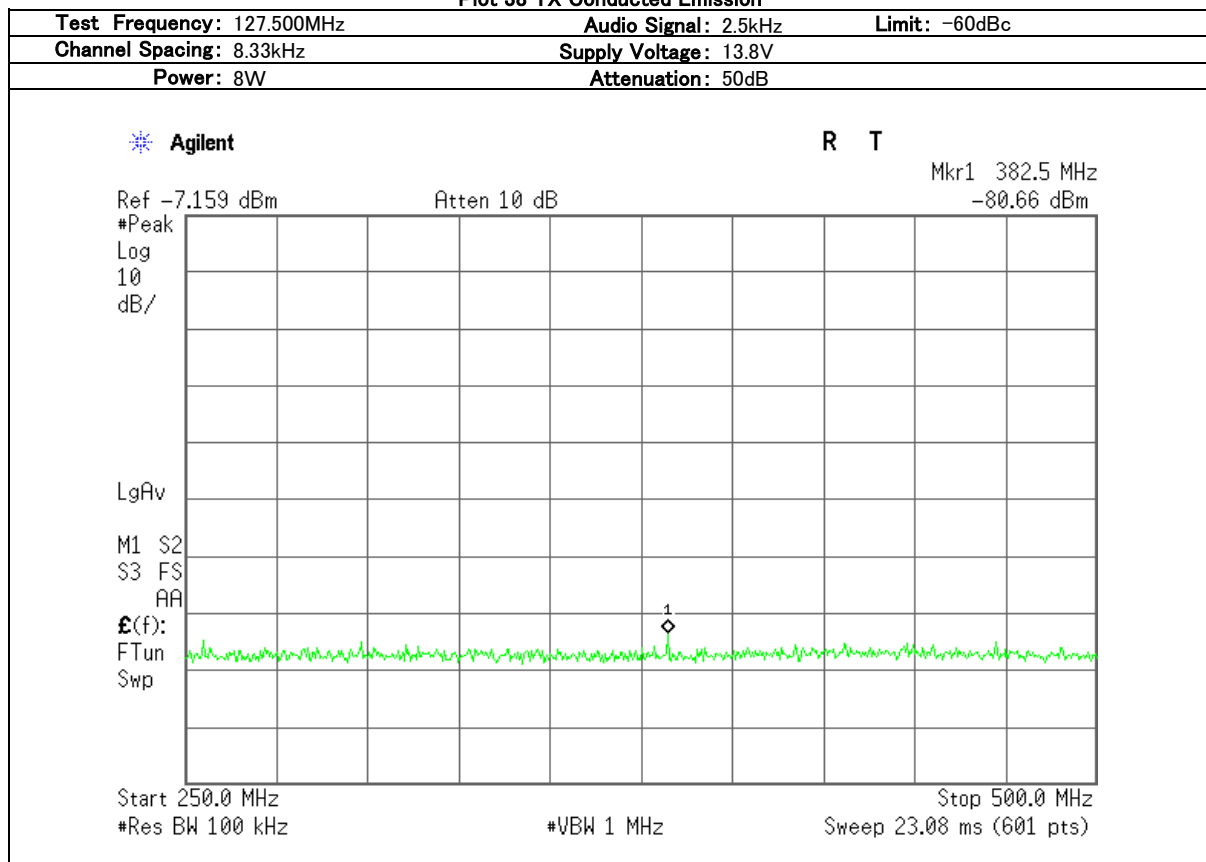
Plot 36 TX Conducted Emission



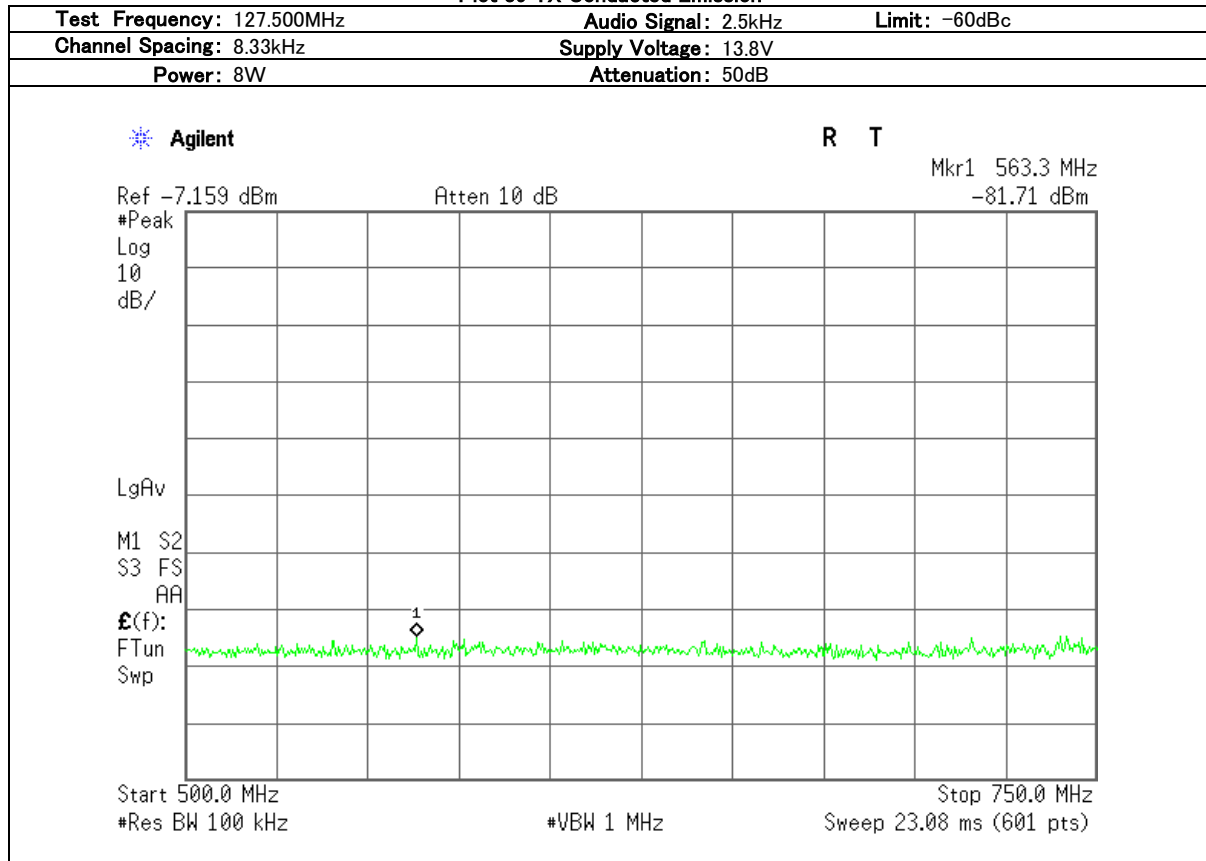
Plot 37 TX Conducted Emission



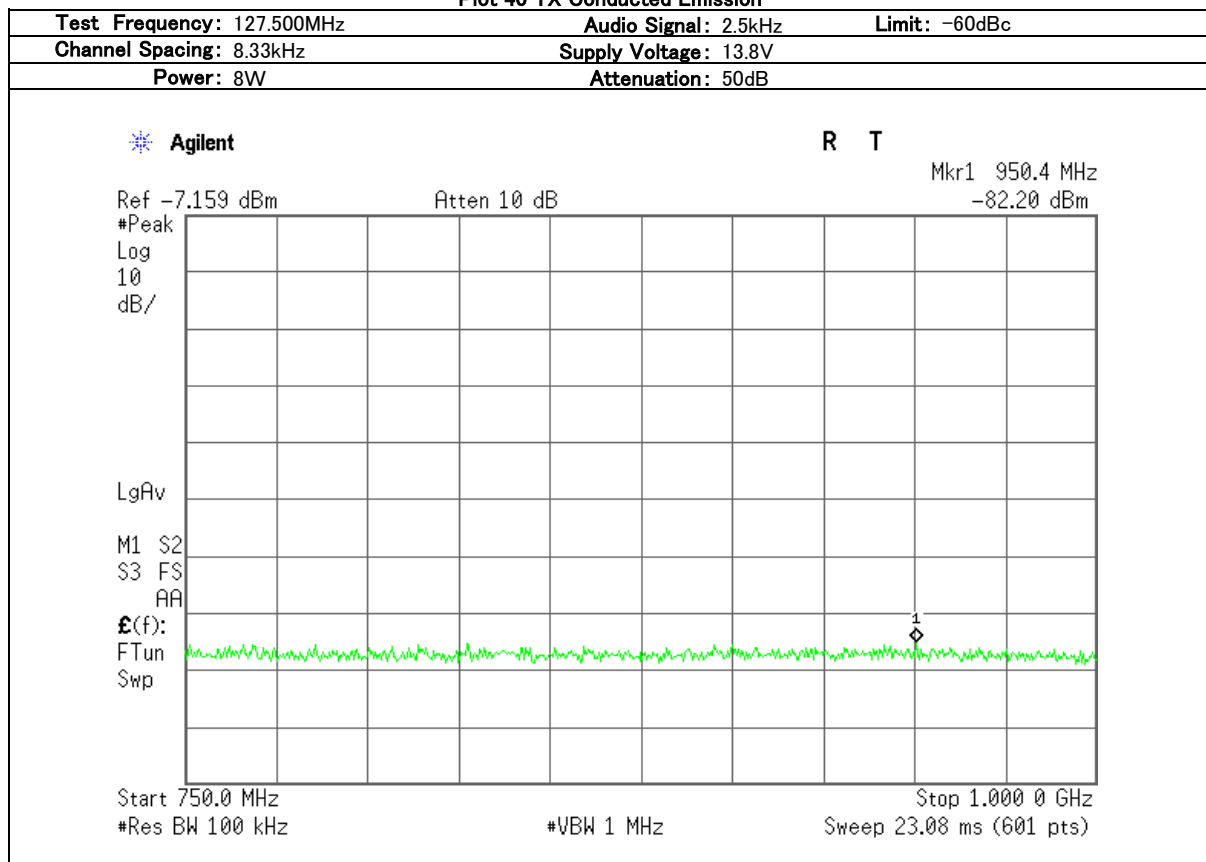
Plot 38 TX Conducted Emission



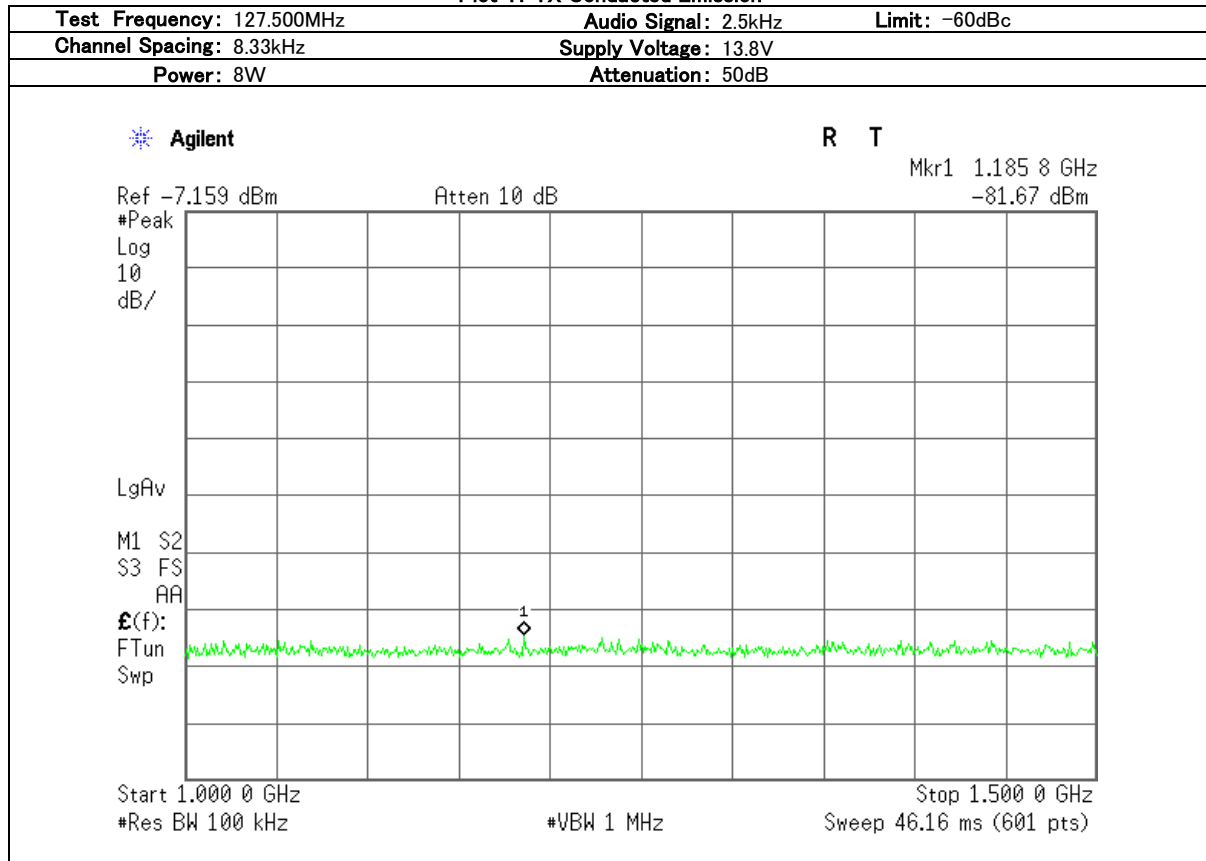
Plot 39 TX Conducted Emission



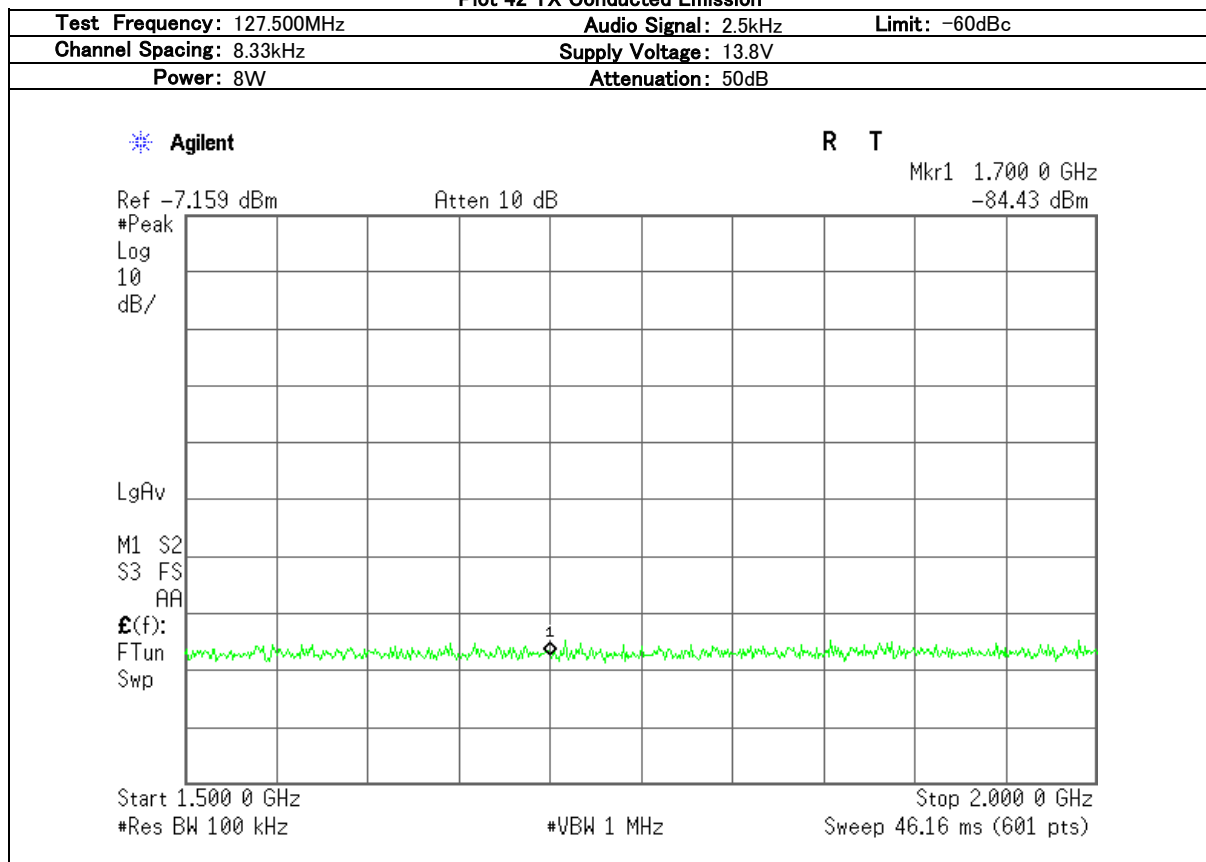
Plot 40 TX Conducted Emission



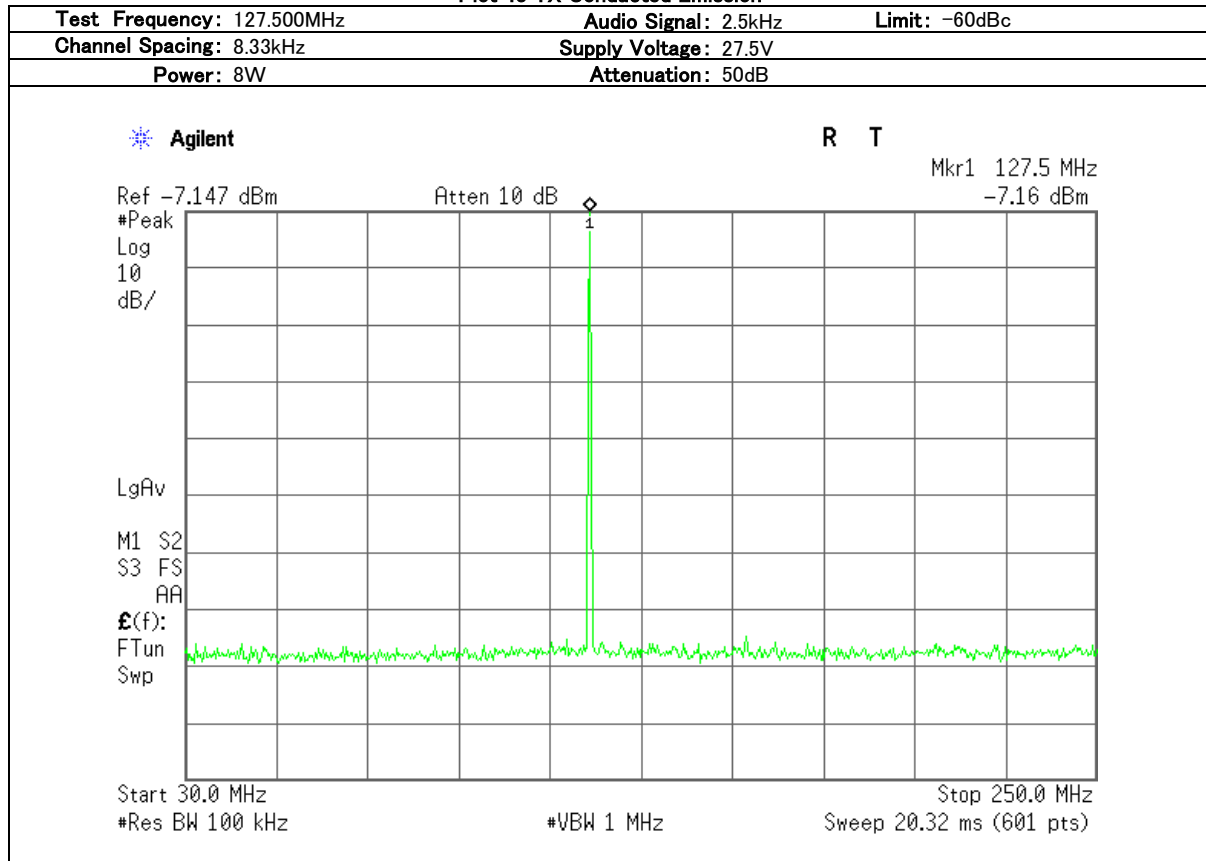
Plot 41 TX Conducted Emission



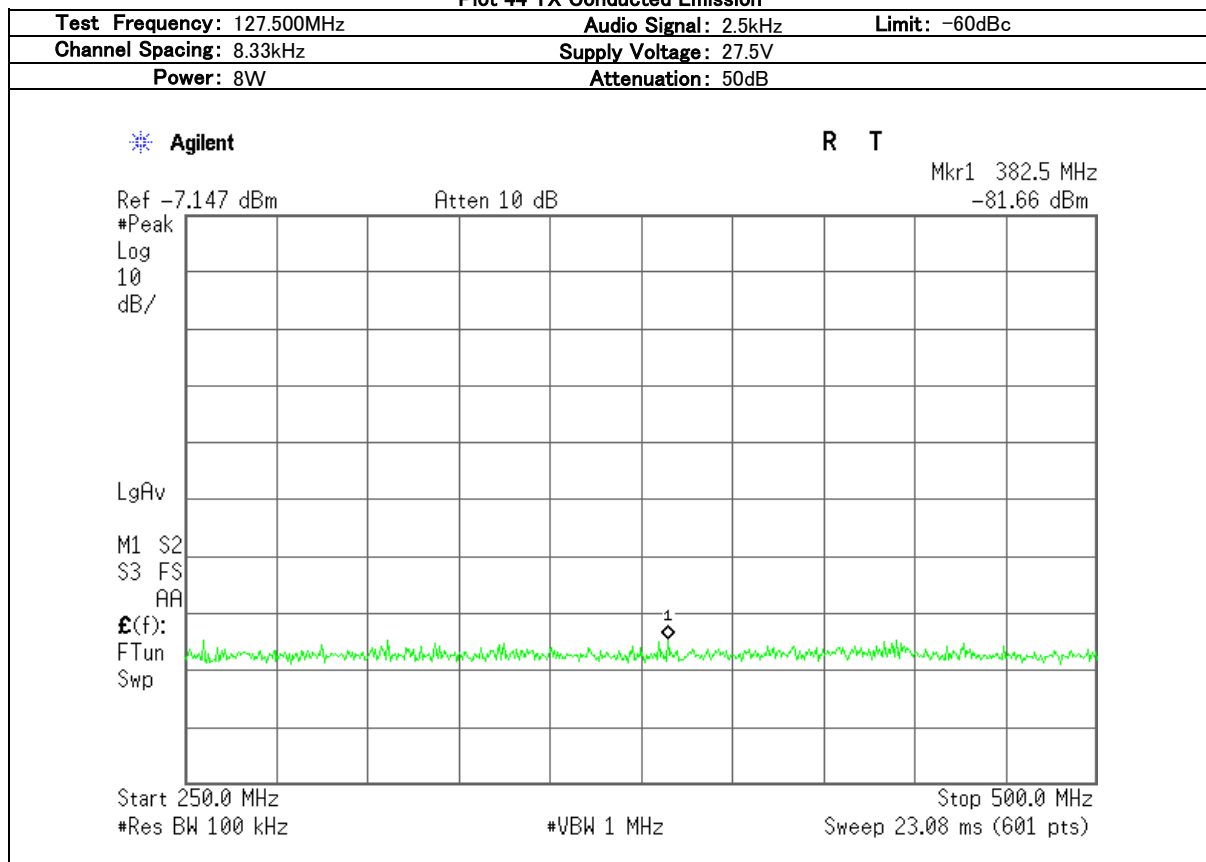
Plot 42 TX Conducted Emission



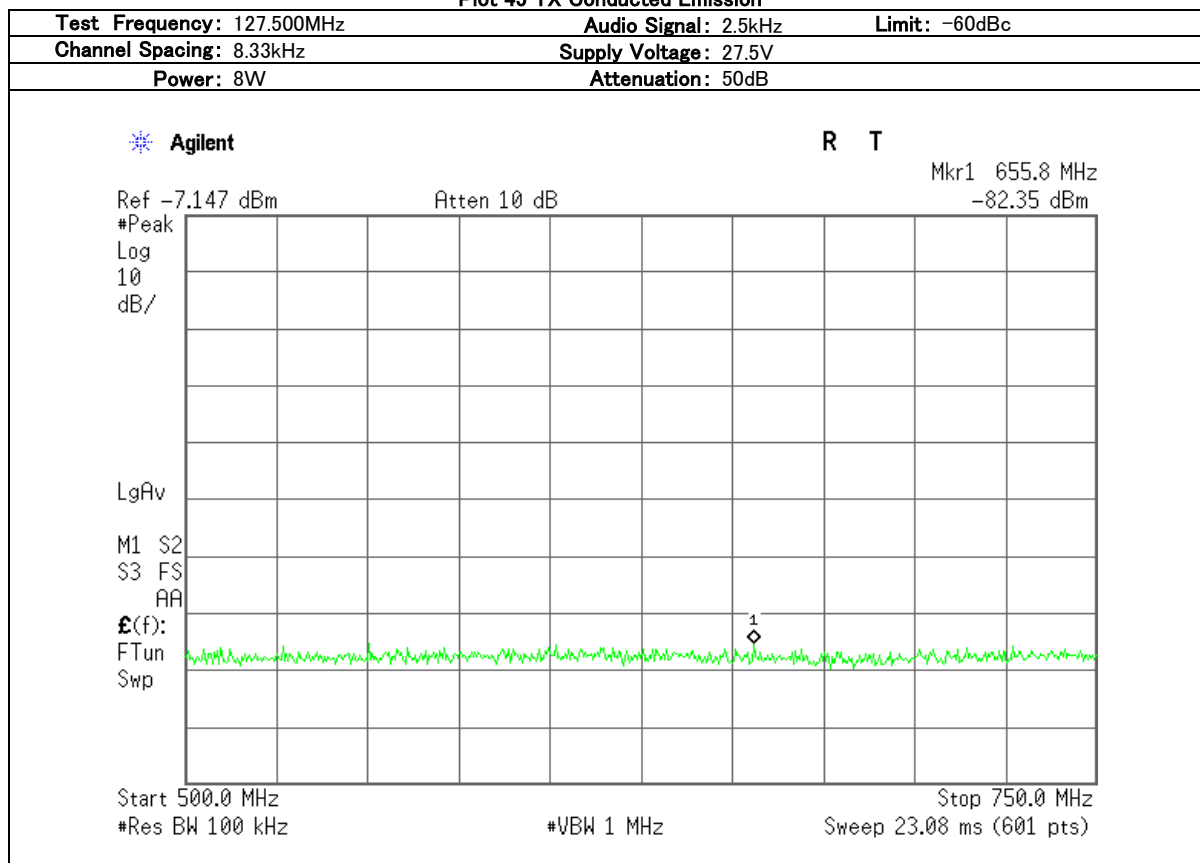
Plot 43 TX Conducted Emission



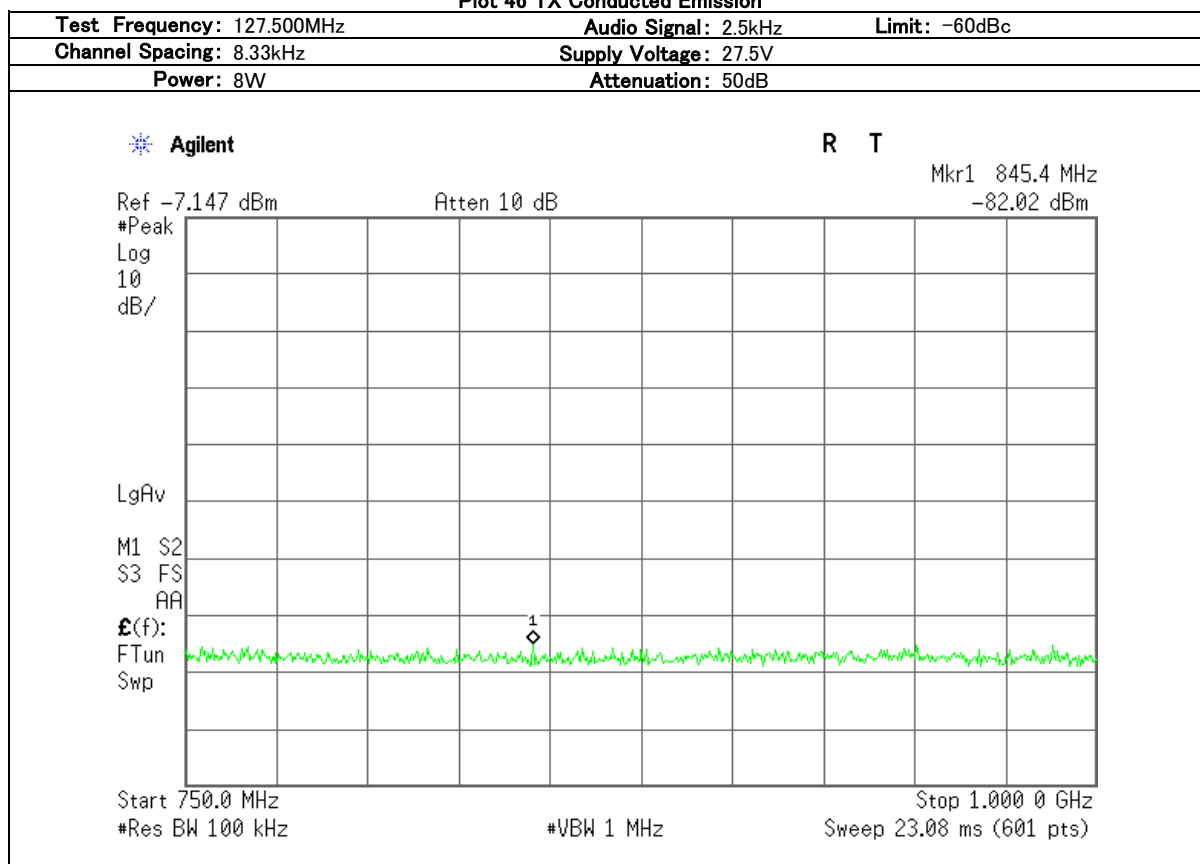
Plot 44 TX Conducted Emission



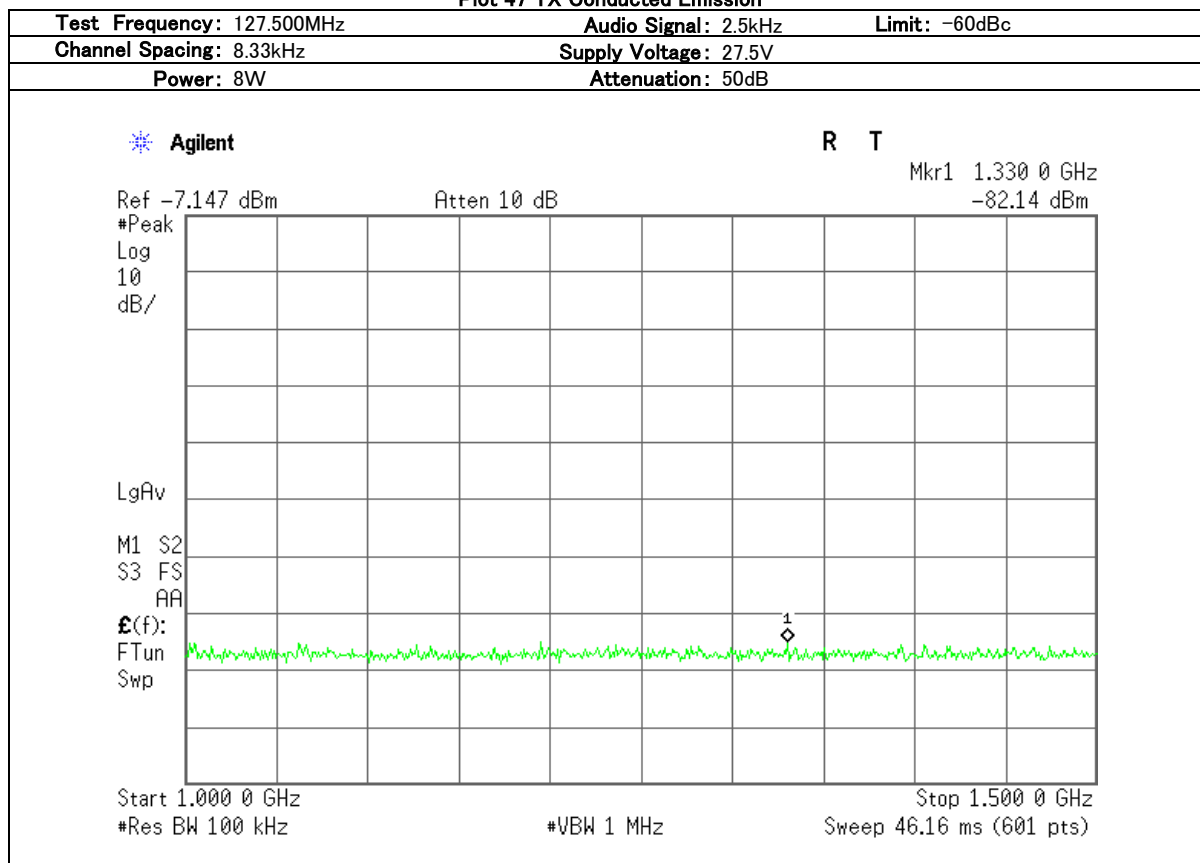
Plot 45 TX Conducted Emission



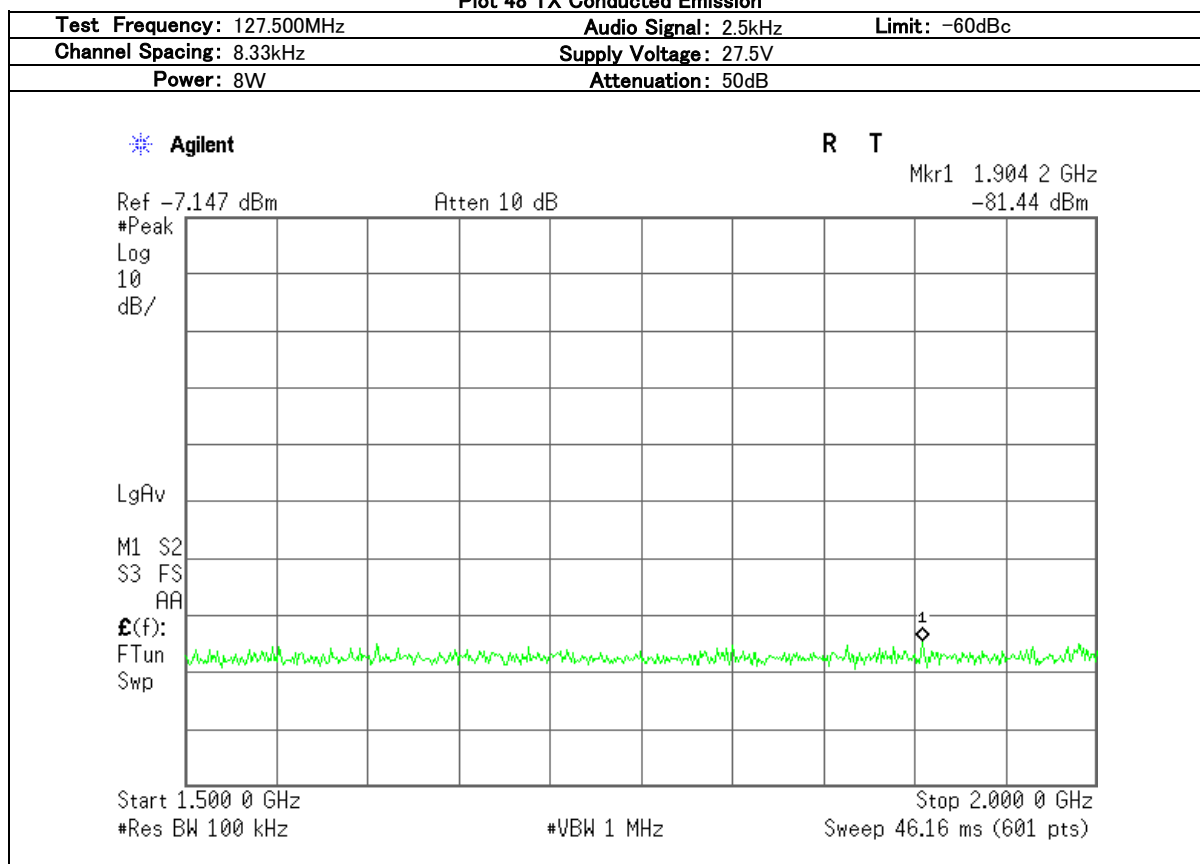
Plot 46 TX Conducted Emission



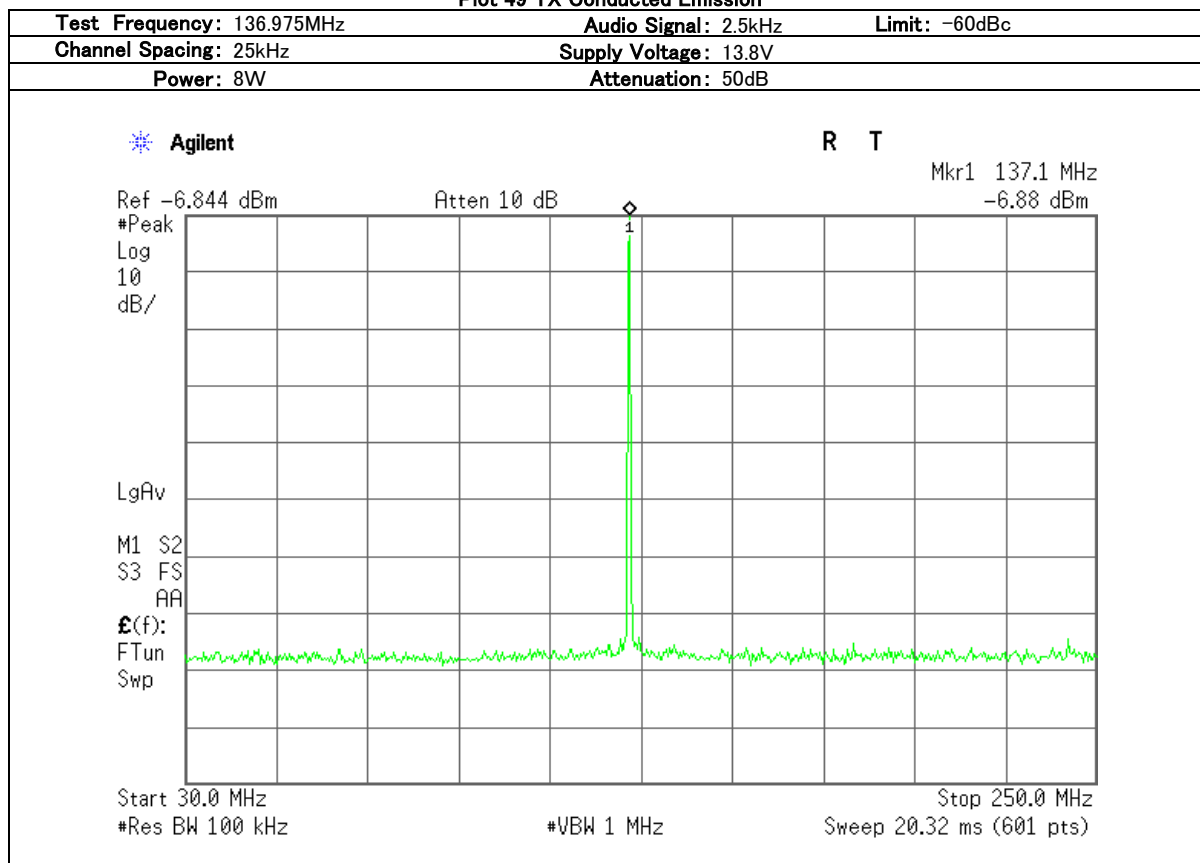
Plot 47 TX Conducted Emission



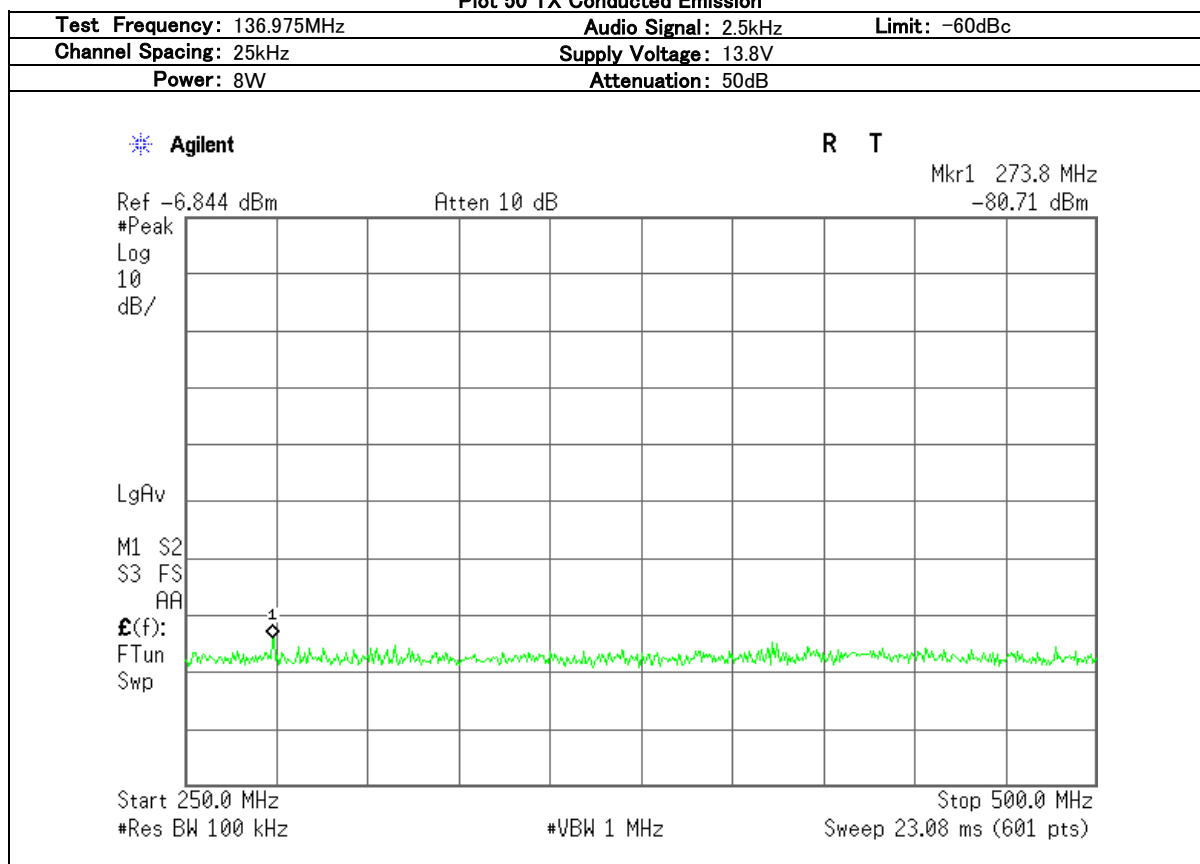
Plot 48 TX Conducted Emission



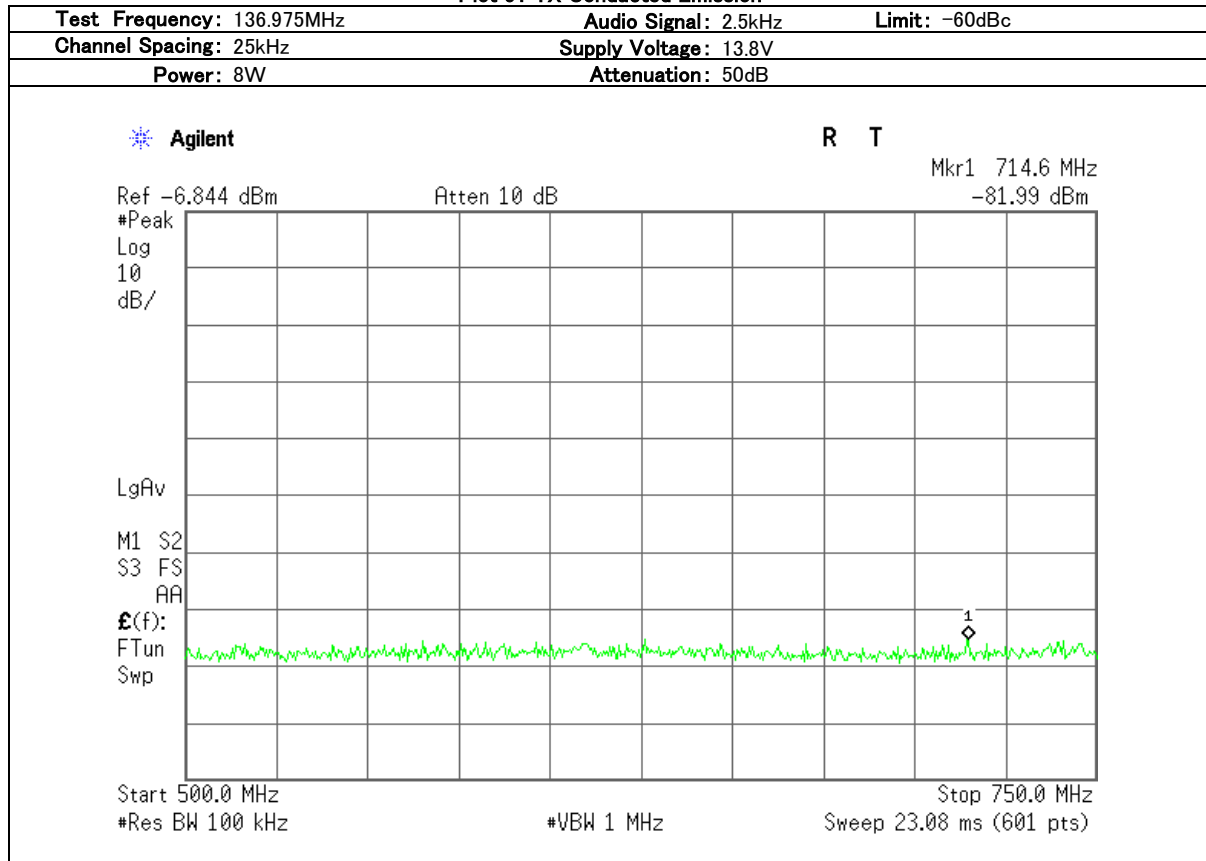
Plot 49 TX Conducted Emission



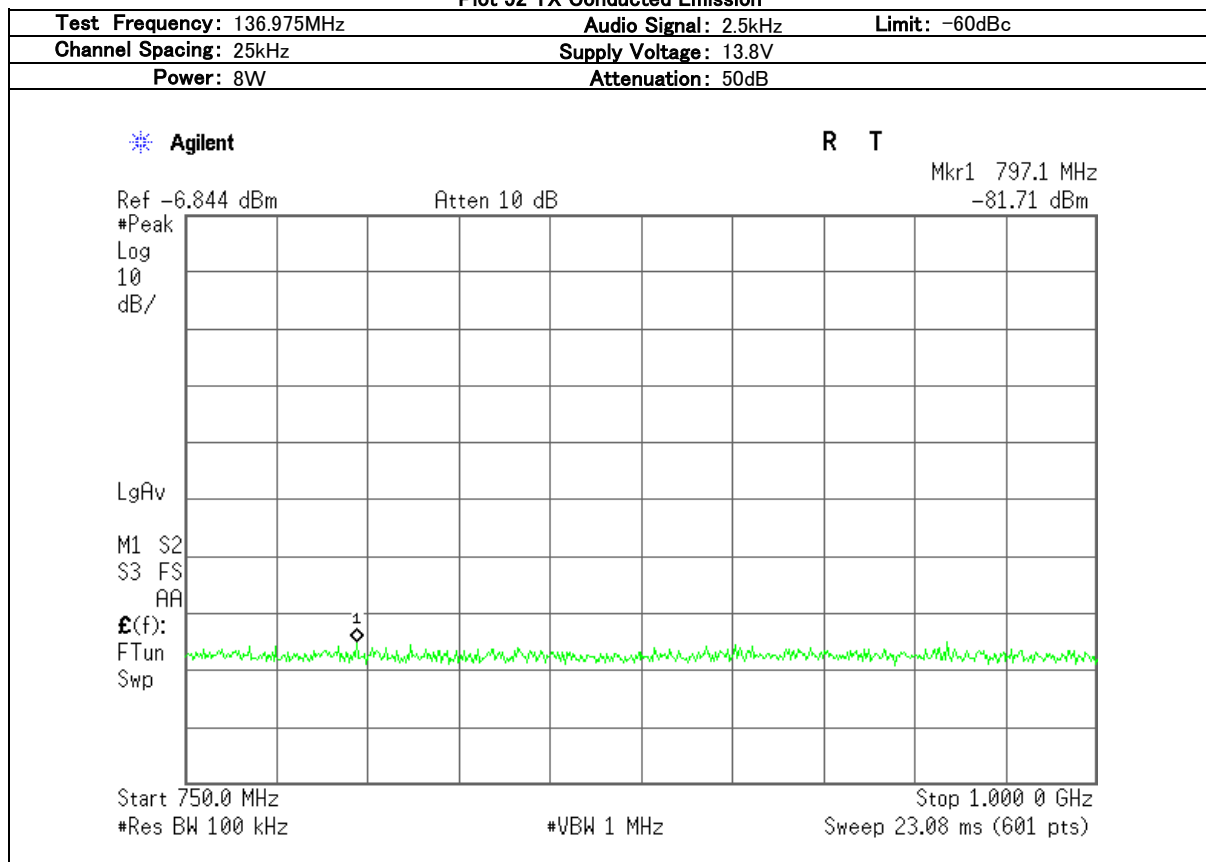
Plot 50 TX Conducted Emission



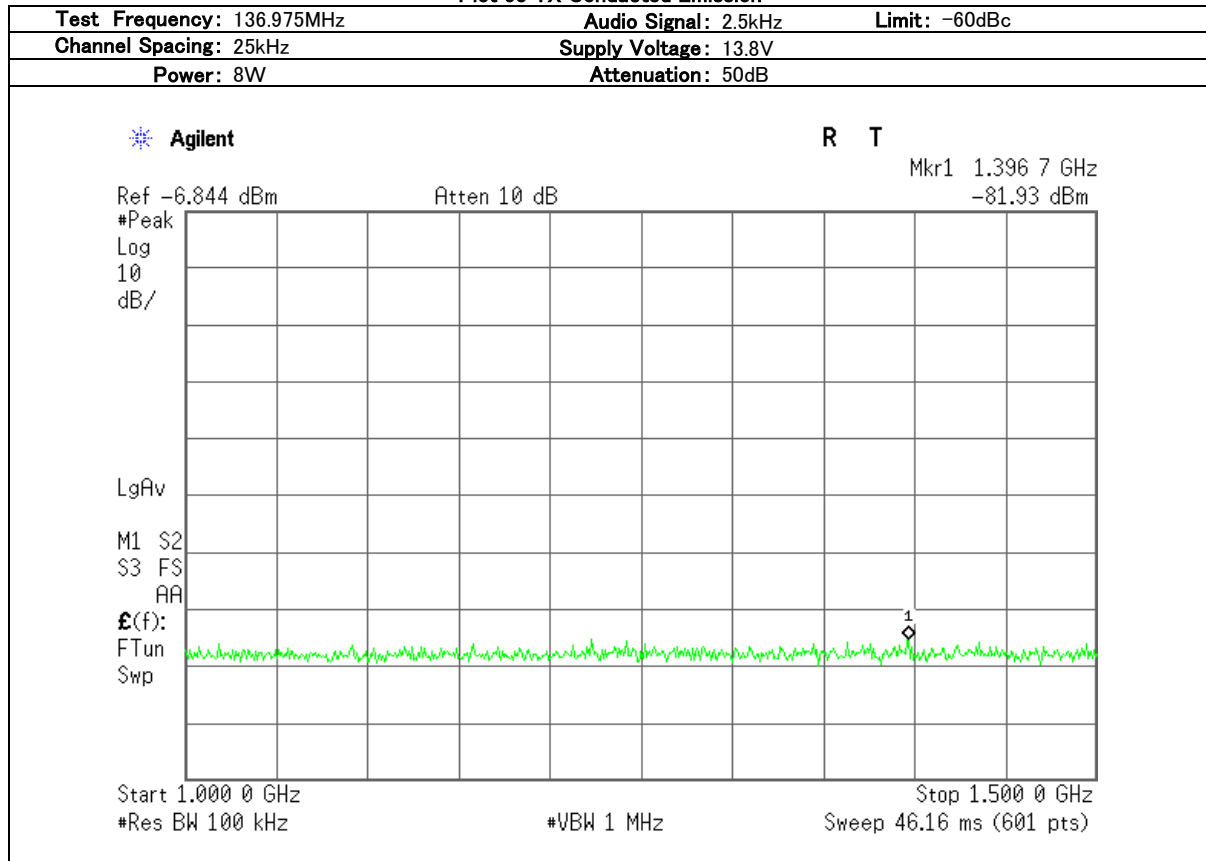
Plot 51 TX Conducted Emission



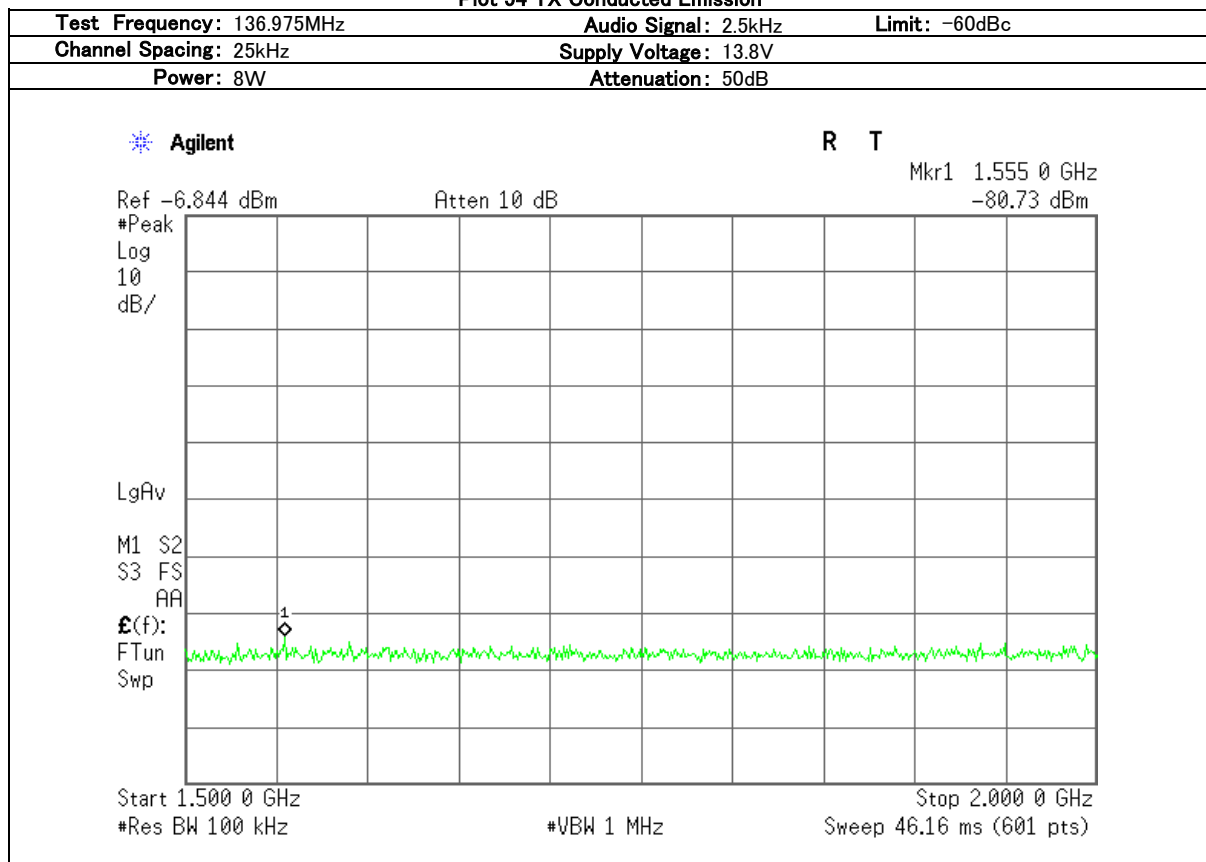
Plot 52 TX Conducted Emission



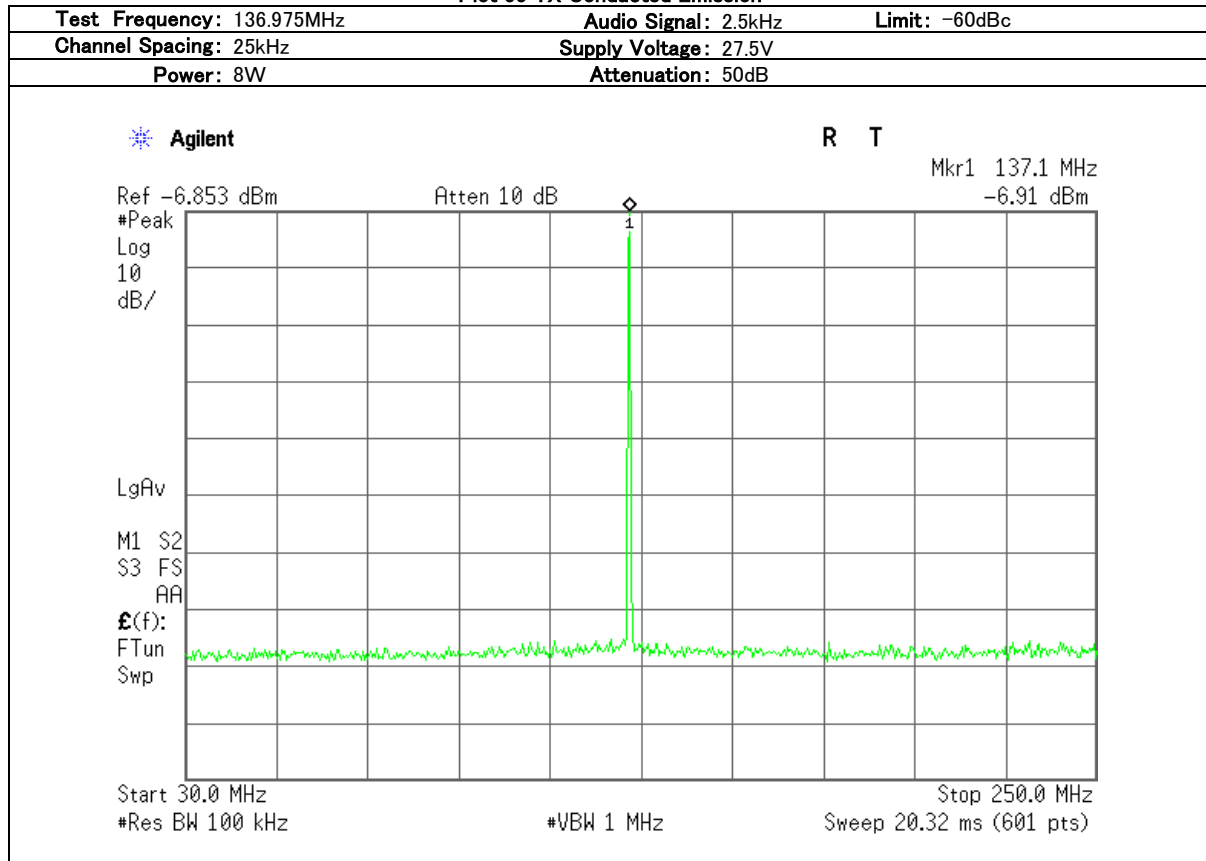
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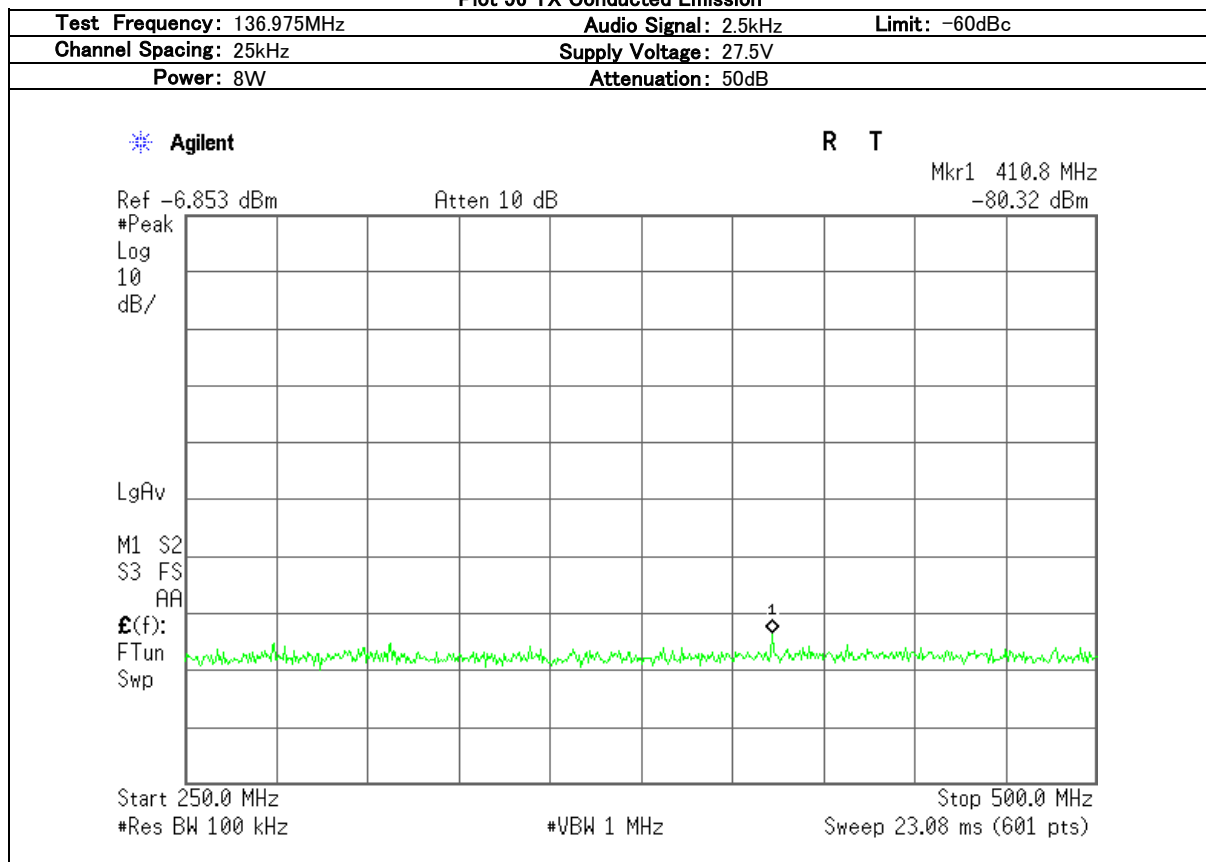
Plot 54 TX Conducted Emission



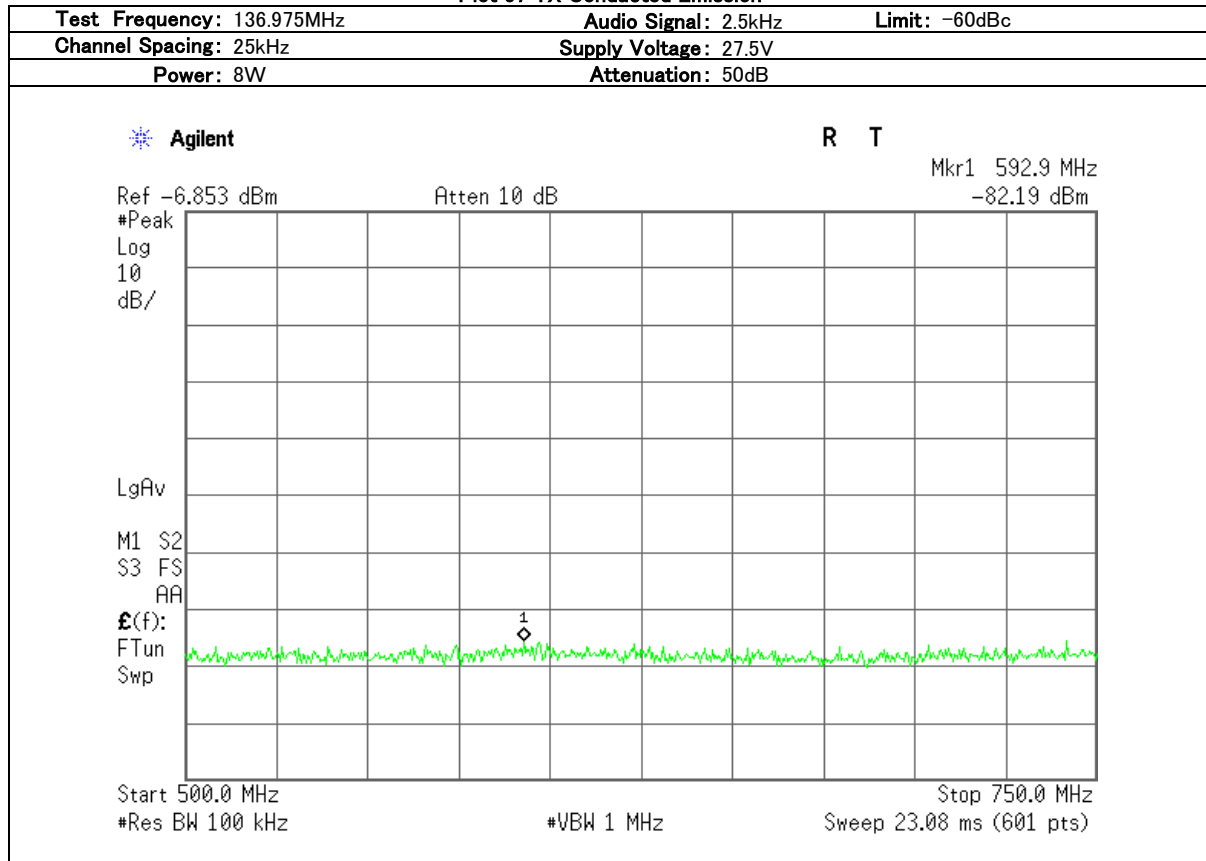
Plot 55 TX Conducted Emission



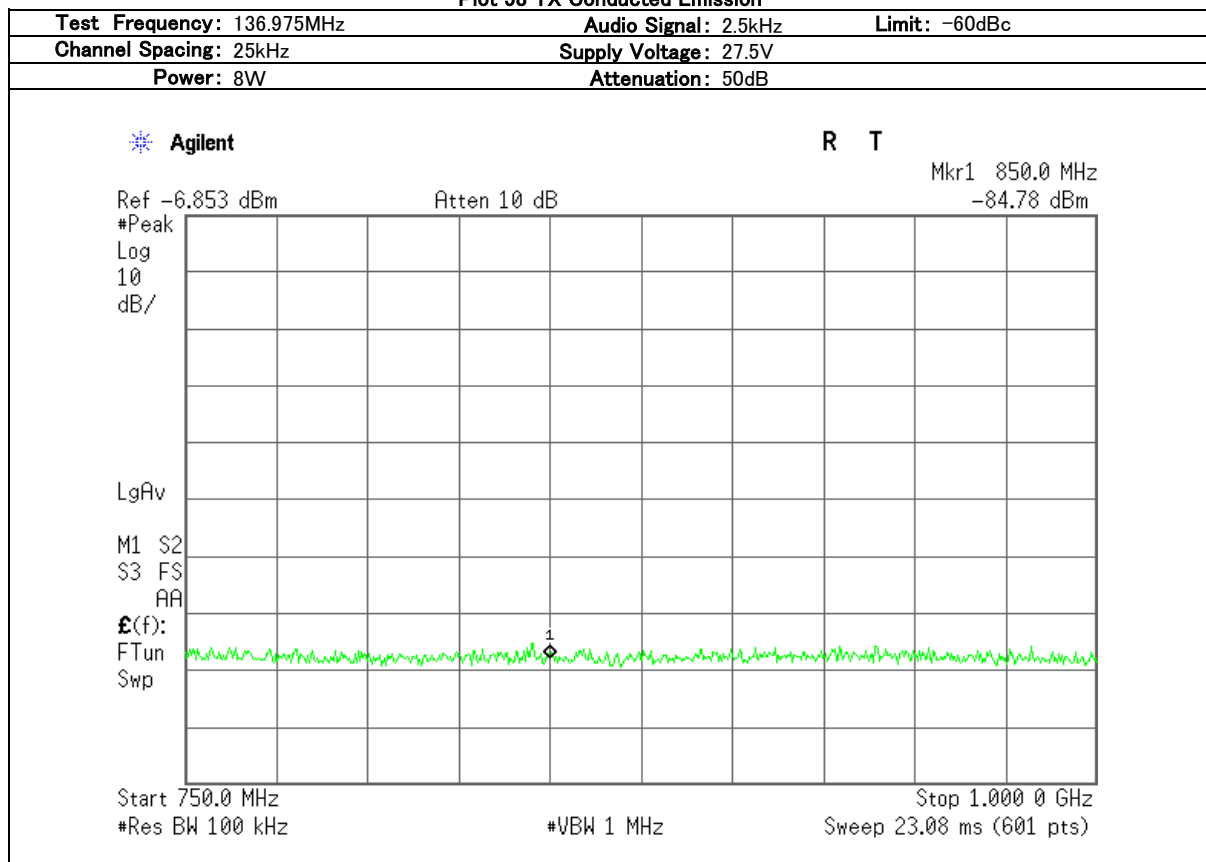
Plot 56 TX Conducted Emission



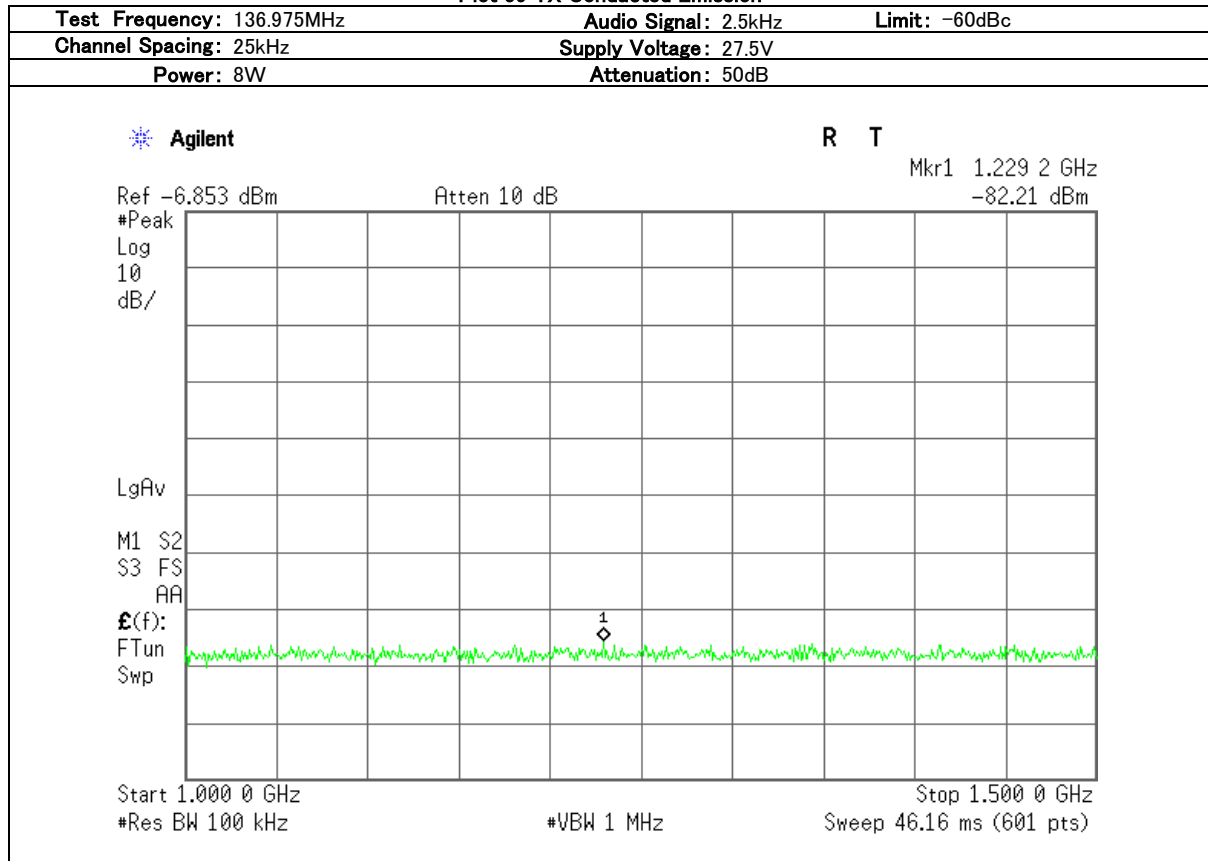
Plot 57 TX Conducted Emission



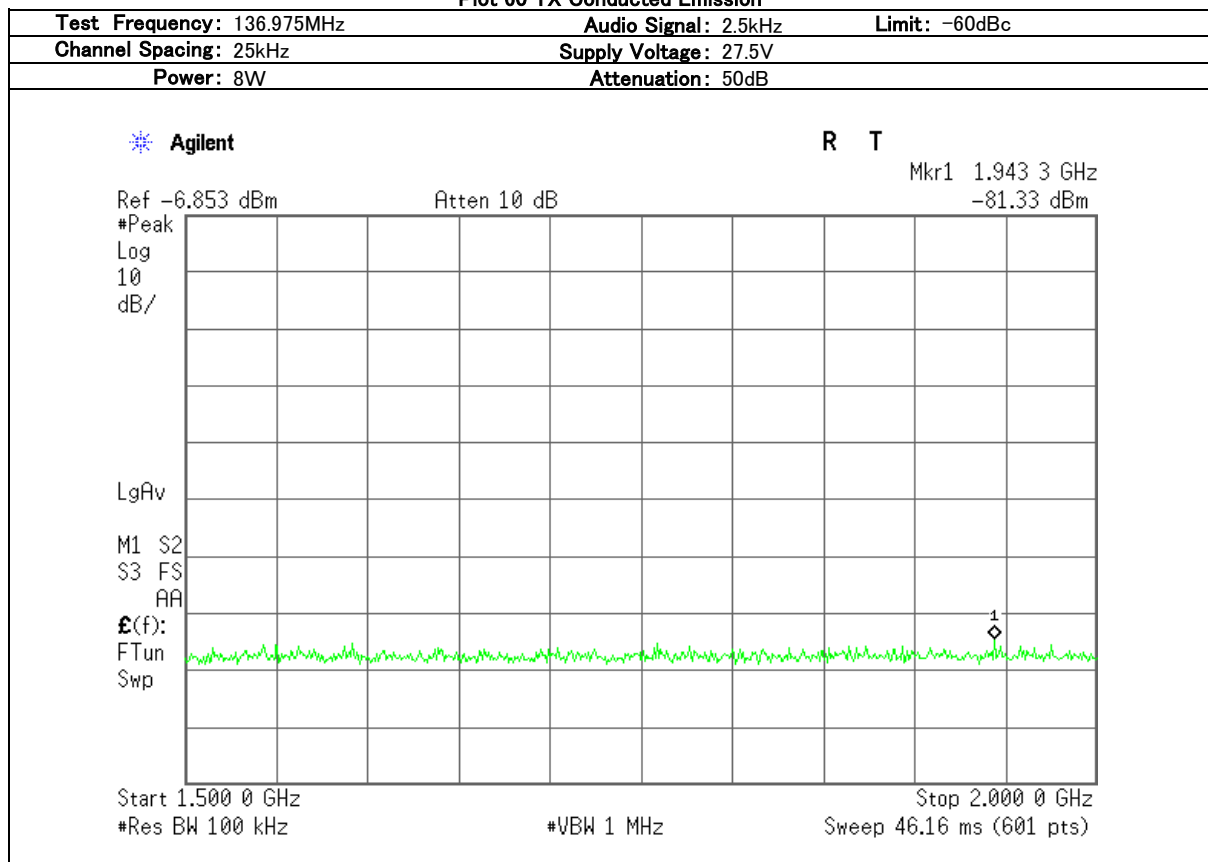
Plot 58 TX Conducted Emission



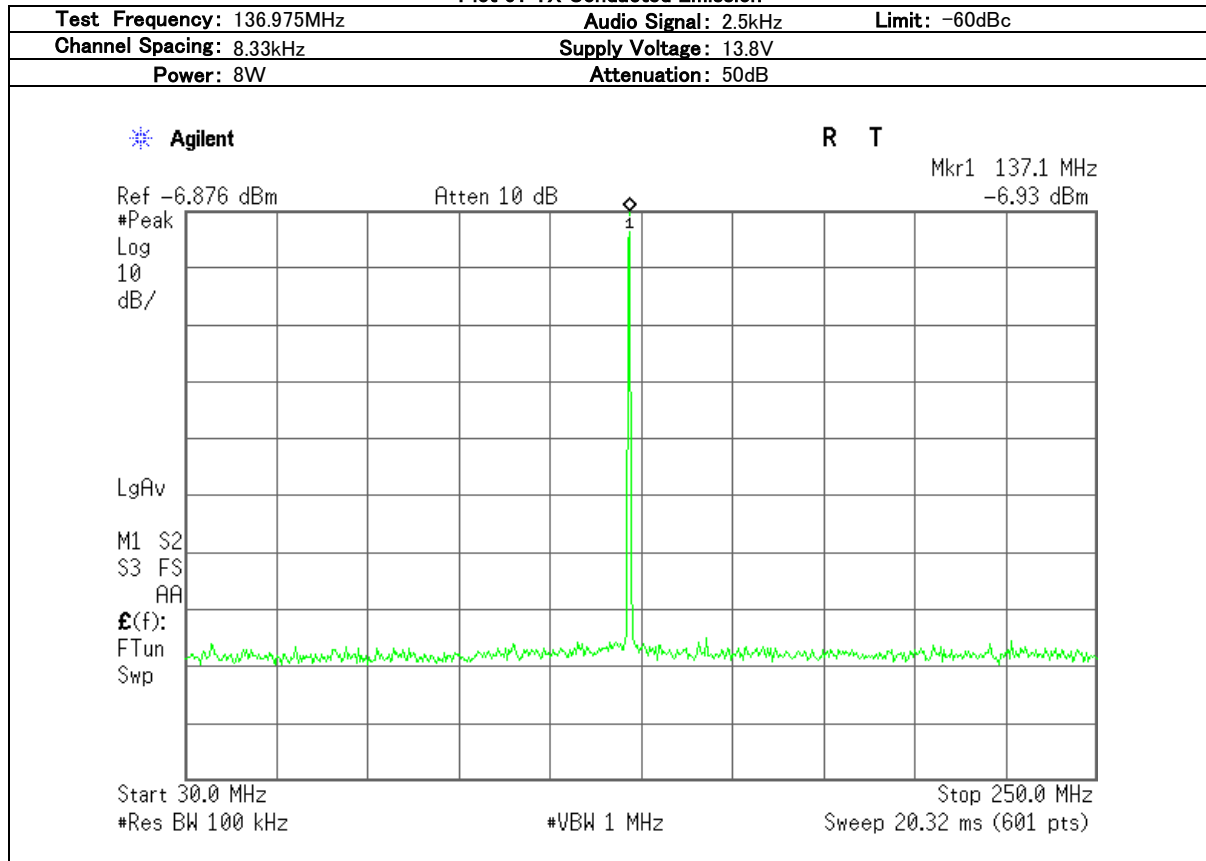
Plot 59 TX Conducted Emission



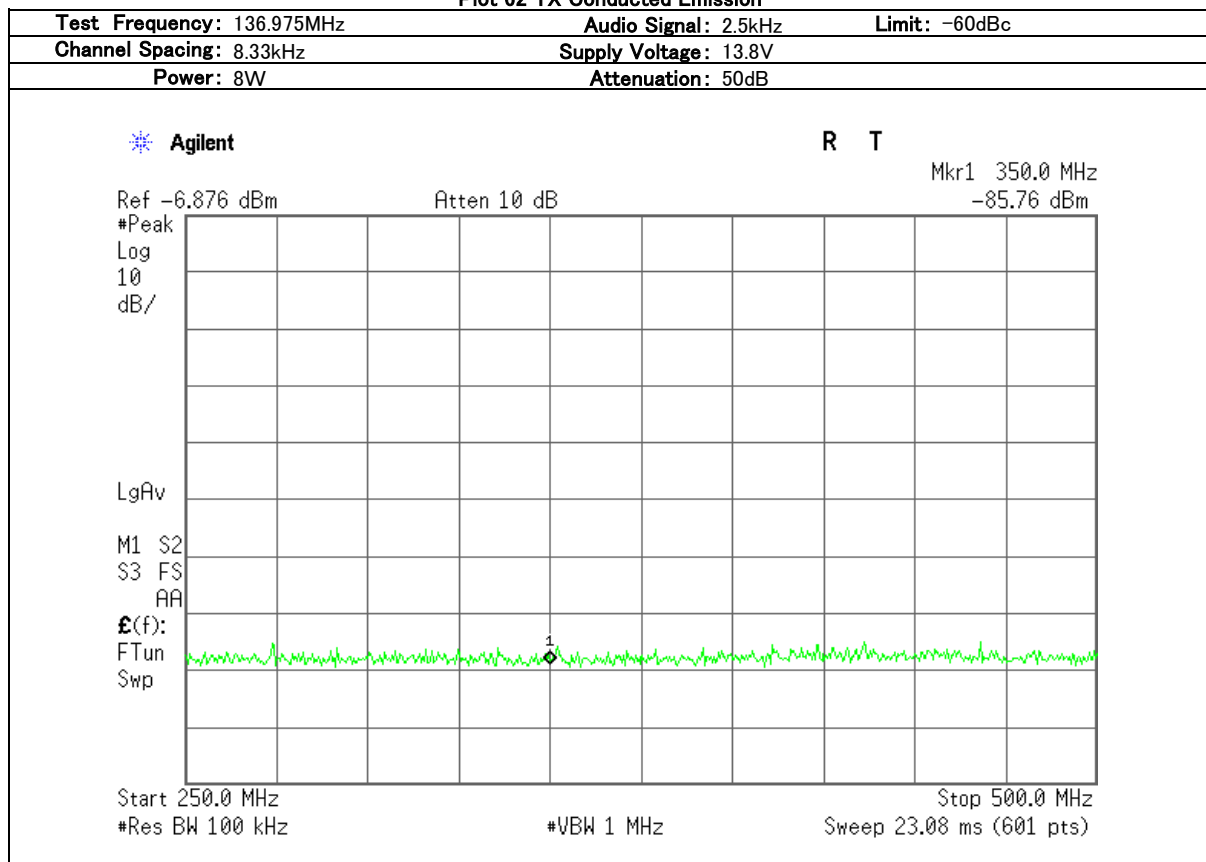
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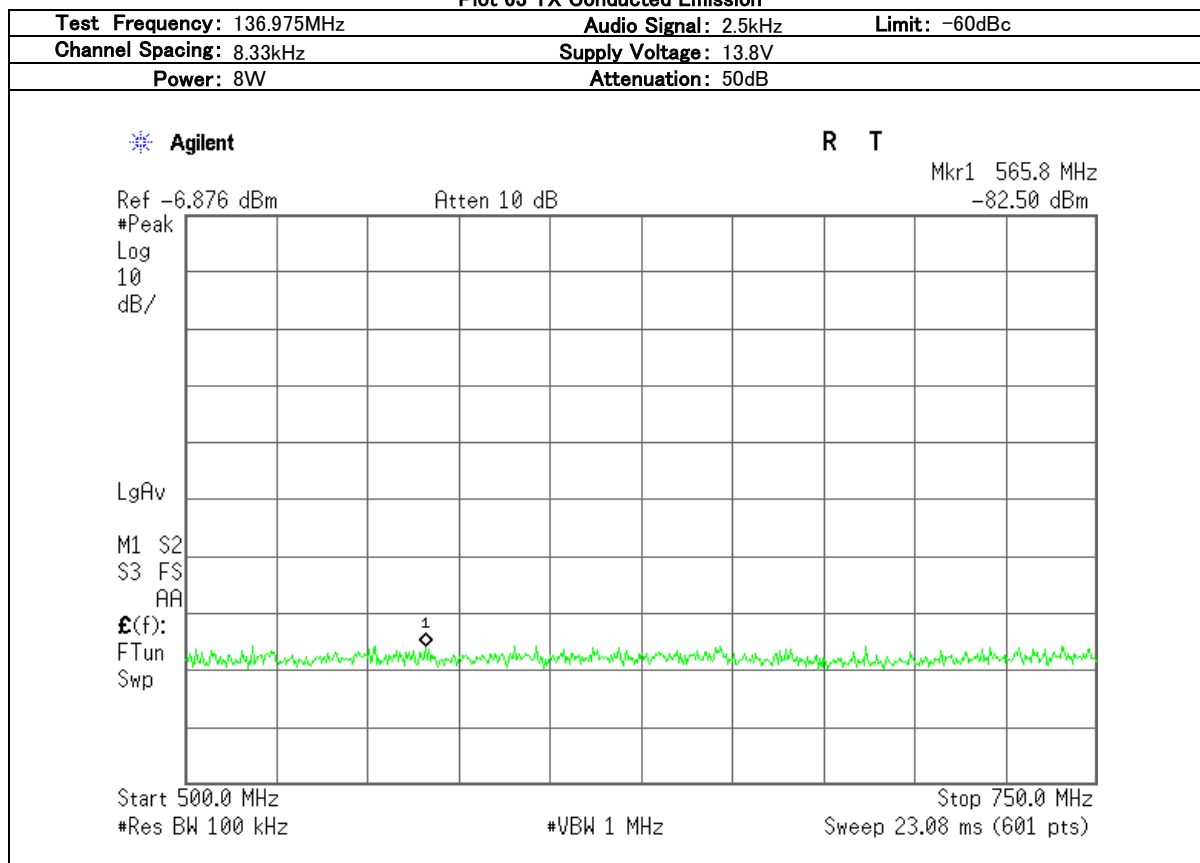
Plot 61 TX Conducted Emission



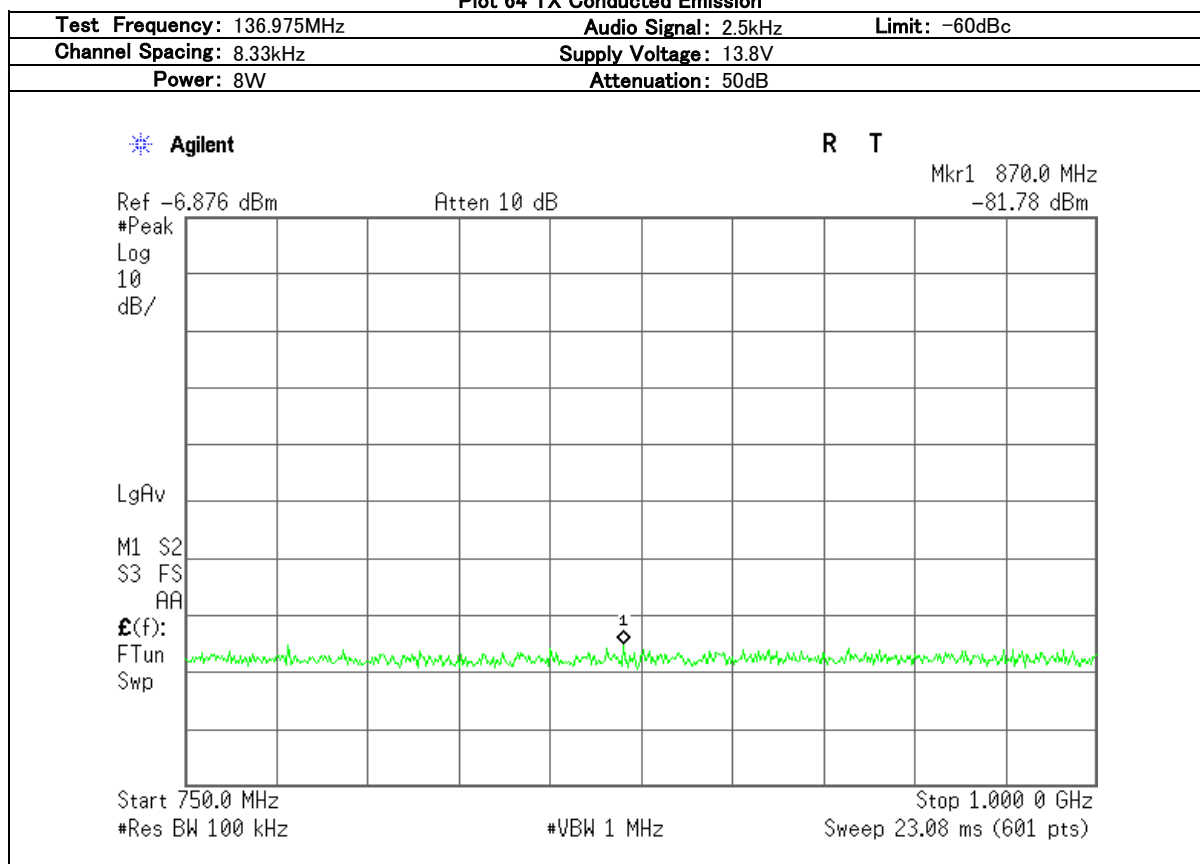
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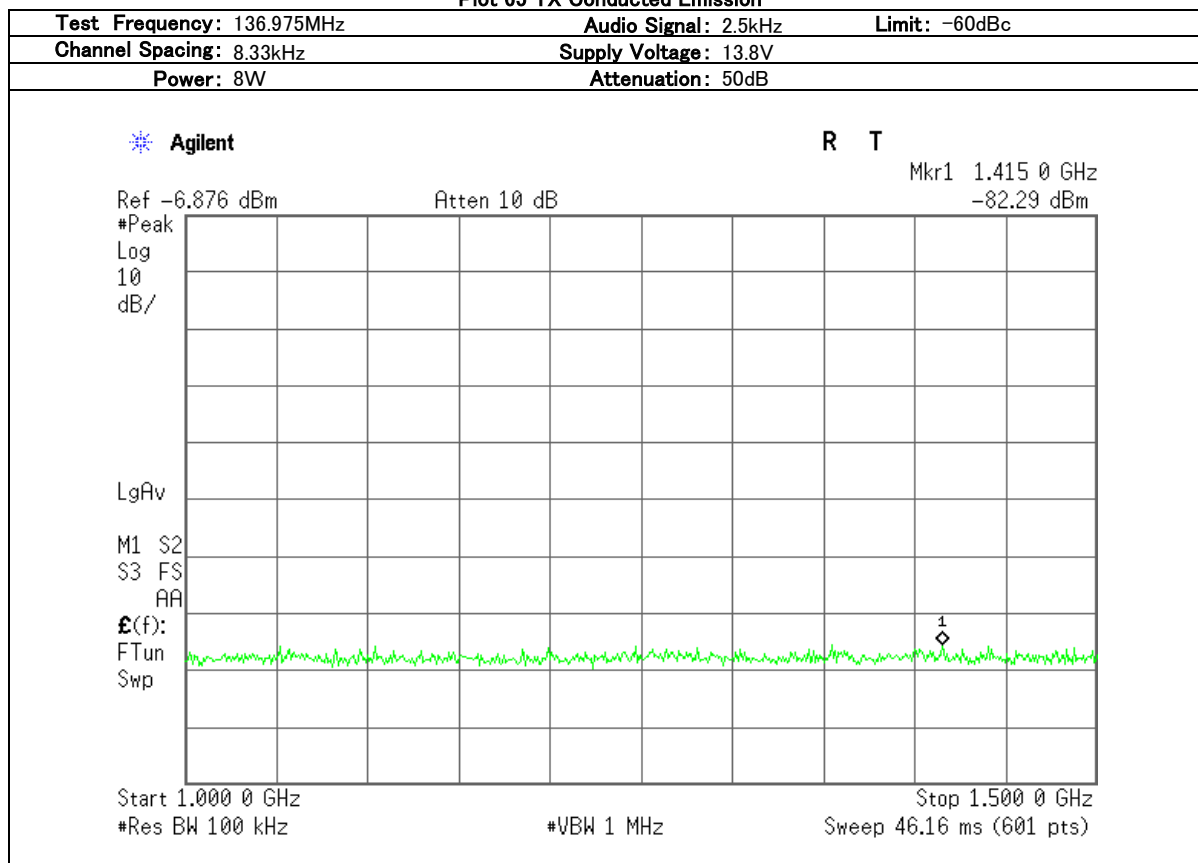
Plot 63 TX Conducted Emission



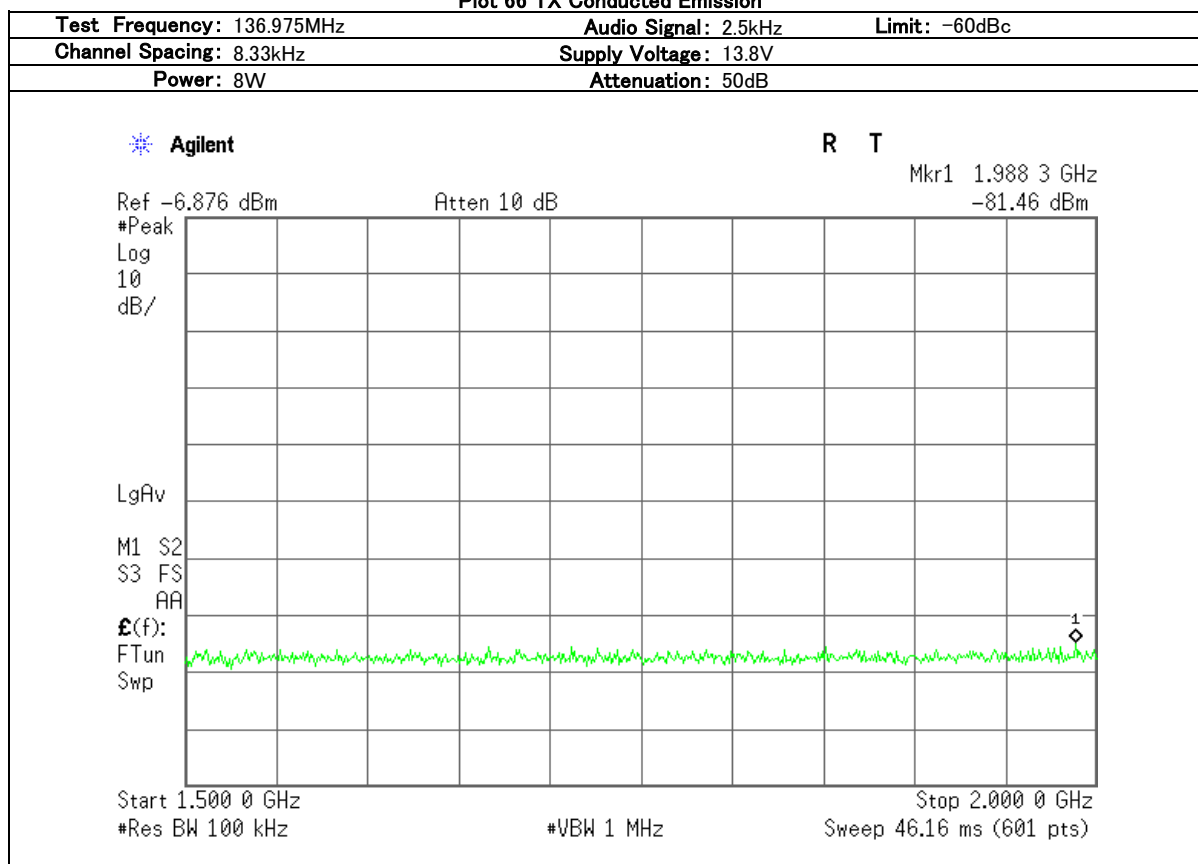
Plot 64 TX Conducted Emission



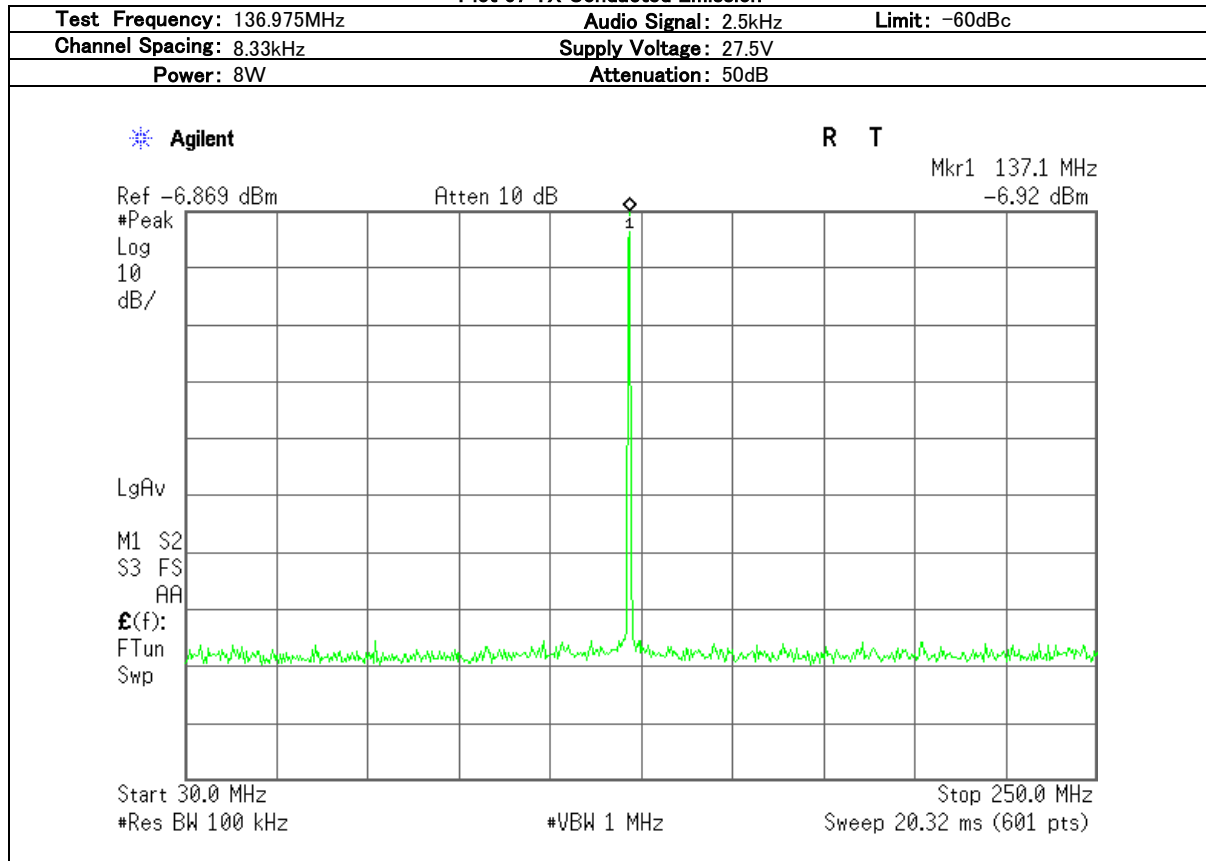
Plot 65 TX Conducted Emission



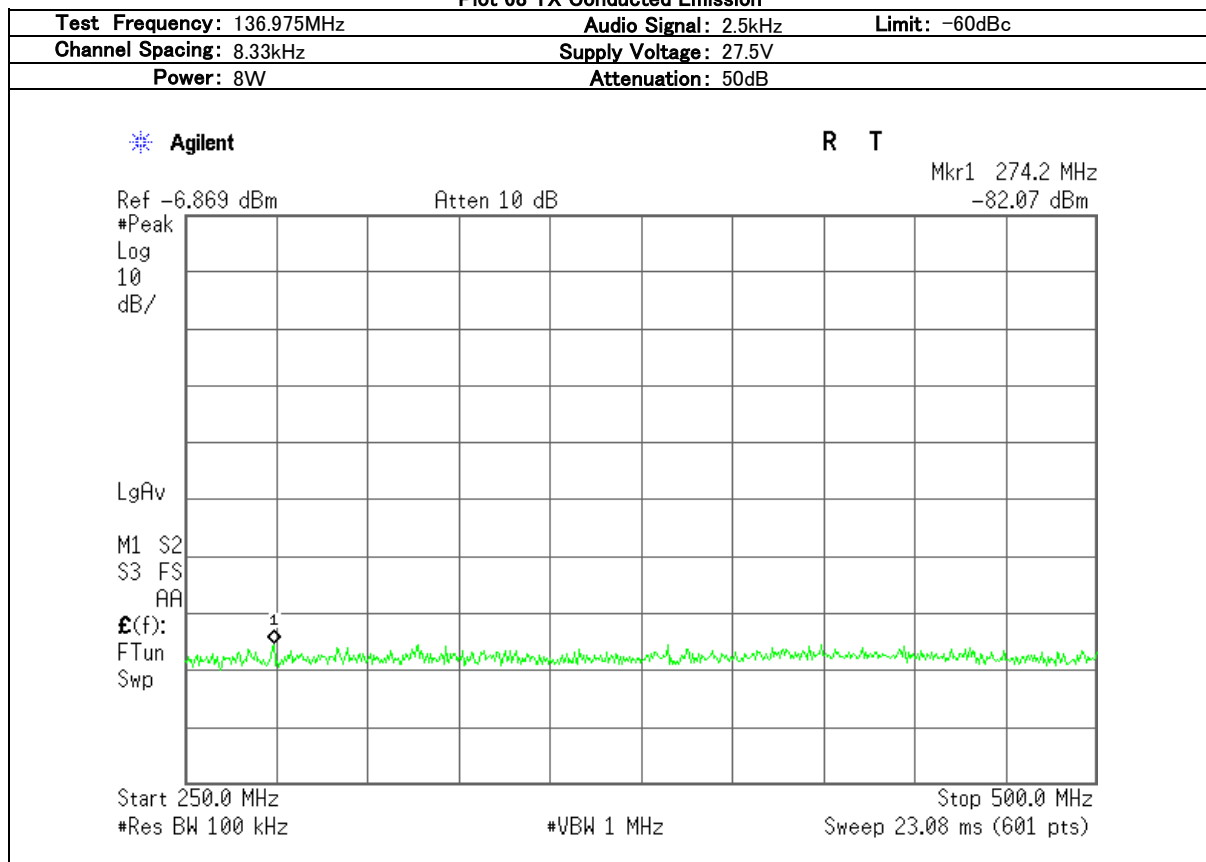
Plot 66 TX Conducted Emission



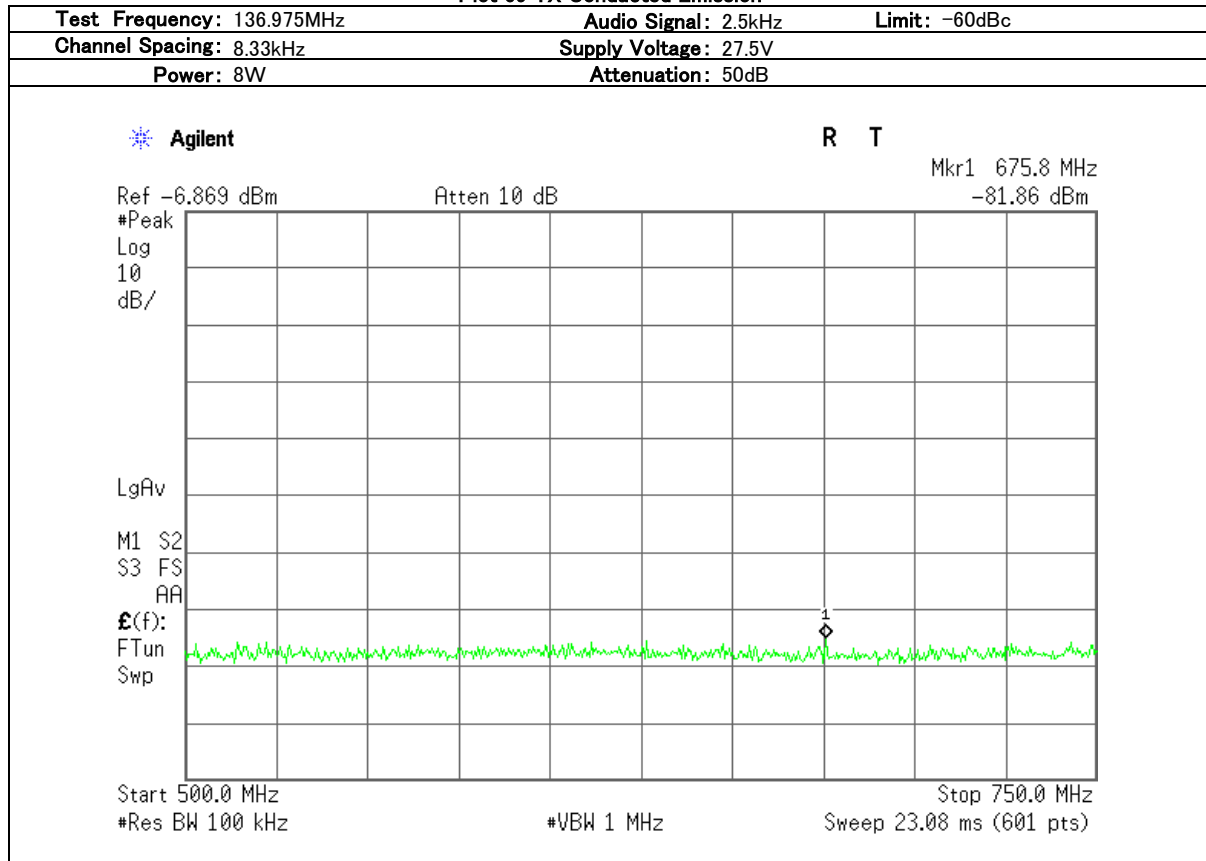
Plot 67 TX Conducted Emission



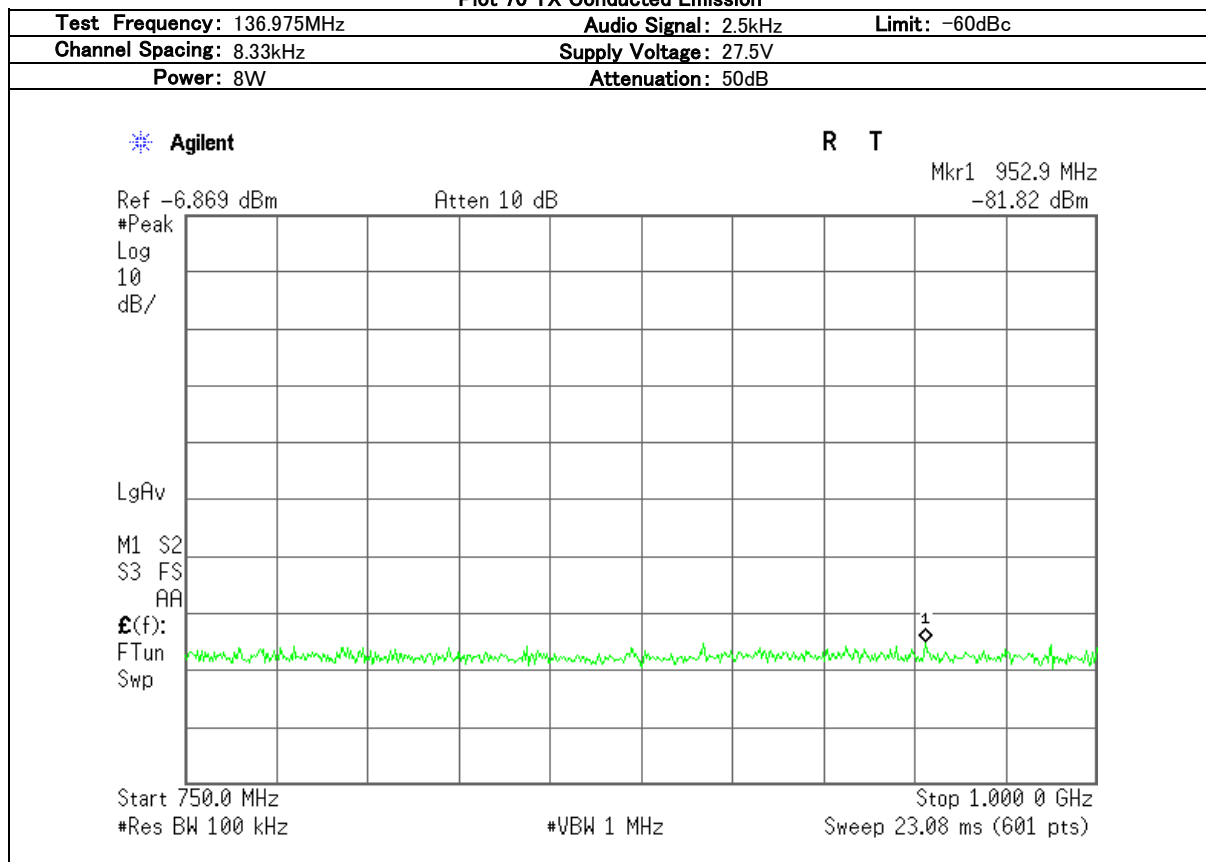
Plot 68 TX Conducted Emission



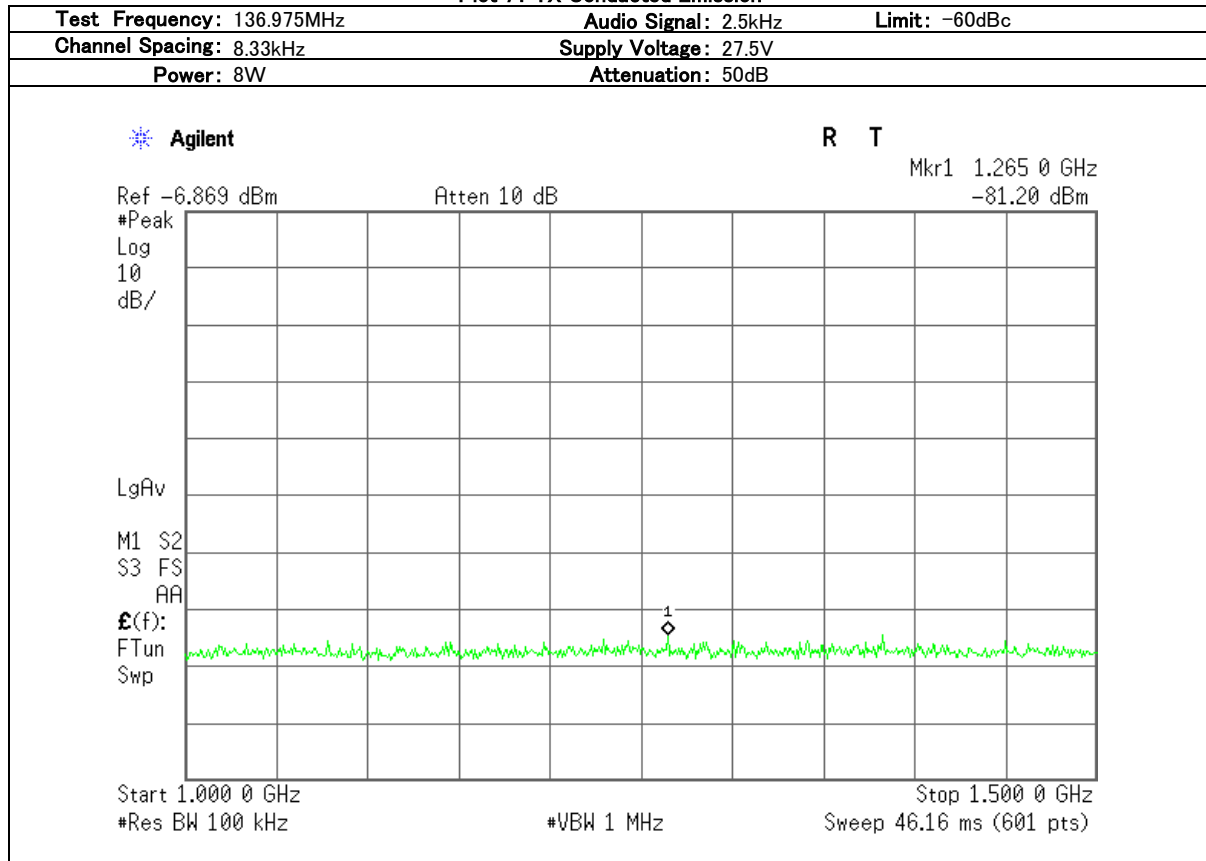
Plot 69 TX Conducted Emission



Plot 70 TX Conducted Emission



Plot 71 TX Conducted Emission



Plot 72 TX Conducted Emission

