

**FM Spurious Emission Tests**

**K234CY 94.7**

**Alexandria, LA  
250 Watts ERP**

**K265FB 100.9**

**Alexandria, LA  
250 Watts ERP**

**K285HF 104.9**

**Alexandria, LA  
250 Watts ERP**

**July 27, 2021**

**Tony L. Evans  
Broadcast Engineering  
221 Bosco Hwy  
Church Point, LA 70525  
337-277-2703**

# Spurious Emission Test

## Introduction

This document demonstrates compliance with the FCC Rules and Regulation 47 C.F.R. Sections 73.317(b) through 73.317(d). This rule section requires compliance of Broadcast Transmission Specifications as stipulated under Special Operating conditions or restrictions on Construction Permit. According to this stipulation, a station must show that it meets this specification by measurement.

## **Test Procedure**

On July 27, 2021 an FM transmission system emission test was performed on K234CY 94.7 MHz and K265FB, 100.9 MHz and K285HF 104.9 MHz licensed to Alexandra, LA. The stations were tested at full power (250 watts ERP). The controls on the spectrum analyzer were set according to the requirements of Part 73.317. Also other testing with carrier and minus carrier were tested and no interference or inter-modulation present.

## **Test Results and Conclusions**

Stations met all requirements as set forth in FCC Rules and Regulations Part 73.317. Further tests not required by this rule were completed on the higher harmonics of stations. The second harmonic attenuation meets all FCC requirements and all higher harmonics are attenuated well within all FCC requirements.

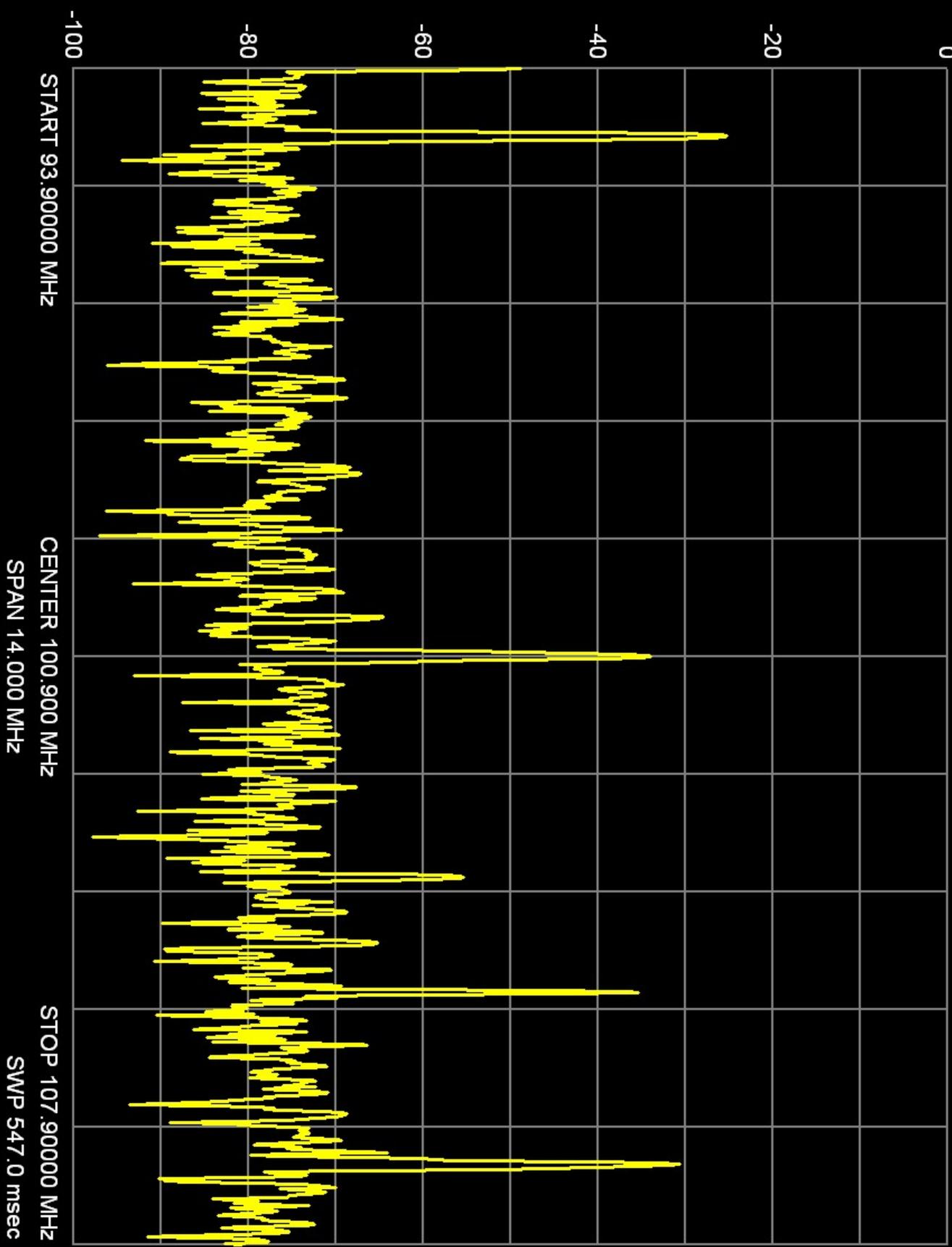
Tony L. Evans

Broadcast Engineering

REF 0.0 dBm  
10 dB/div

RBW 50 KHz  
ATTEN 10 dB

VBW ---  
INT REF



**Frequency Controls**

▲ CENTER START

▼ STEP STOP

**Span Controls**

▲ SET SPAN ZERO SPAN

▼ FULL SPAN

**Amplitude Controls**

▲ REF LEVEL

▼ ATTEN

dBm/div LIN

**Marker 1 Controls**

PEAK SEARCH UPDATE ON

DELTA OFF

MKR to CF MKR to REF LVL

**Res BW** 100 KHz

25 KHz

6.5 KHz

AUTO

**Video BW** 50 KHz

25 KHz

13 KHz

6.5 KHz

AUTO

**MIN & MAX**

MIN ONLY

MAX ONLY

AVERAGE

**POWER**

VOL

VOLTAG

LOG

BYPASS

Sweep Time

▲ SLOW

▼ MED

FAST

Image Rejection

ON

**Trace Controls**

NORMAL

MAX HOLD

**Trigger Controls**

CONTINUOUS

SINGLE

FREE RUN

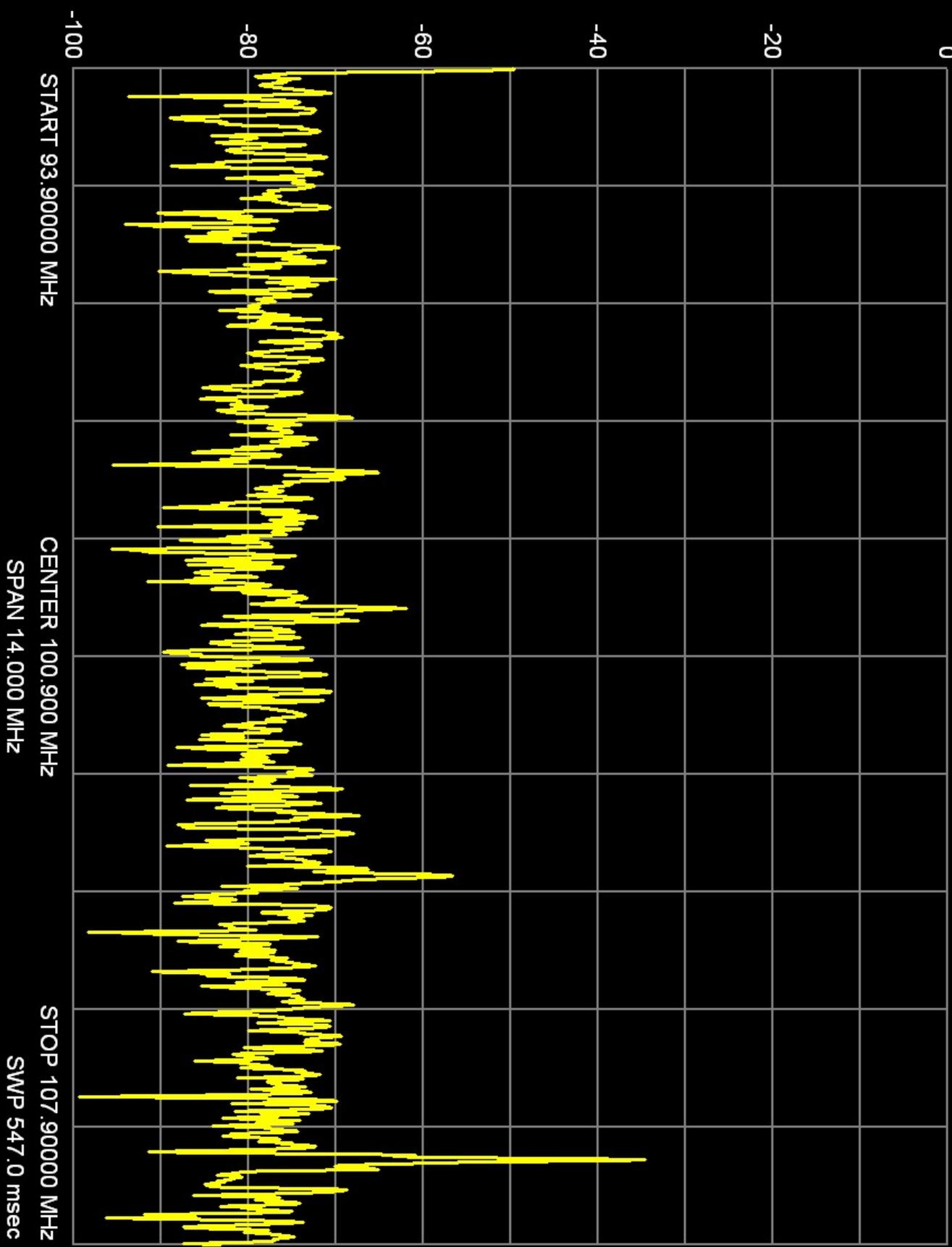
VIDEO

PRESET

REF 0.0 dBm  
10 dB/div

RBW 50 KHz  
ATTEN 10 dB

VBW ---  
INT REF



**Frequency Controls**

▲ CENTER START

▼ STEP STOP

**Span Controls**

▲ SET SPAN ZERO SPAN

▼ FULL SPAN

**Amplitude Controls**

▲ REF LEVEL ATTN

▼ dB/div LIN

**Marker 1 Controls**

PEAK SEARCH UPDATE ON

DELTA OFF

MKR to CF MKR to REF LVL

**Res BW** 100 KHz

25 KHz

6.5 KHz

AUTO

**Video BW** 50 KHz

25 KHz

13 KHz

6.5 KHz

AUTO

**MIN & MAX**

MIN ONLY

MAX ONLY

AVERAGE

**POWER**

VOLTAJE

LOG

BYPASS

Sweep Time

SLOW MED FAST

Image Rejection

ON

**Trace Controls**

NORMAL

MAX HOLD

**Trigger Controls**

CONTINUOUS

SINGLE

FREE RUN

VIDEO

PRESET