

Equipment Performance Measurements (FM)

Call Letters W229AS Community Of License ELMIRA, NY
 Technician GORDON ICHIKAWA Date & Time JUNE 29, 2018 4PM EDT
 Transmitter Make & Model (Q39) SEFX30-ELENOS SF 150 / 106.5-CROWN FM250
 Exciter Make & Model _____
 Frequency 93.9 & 106.5 MHz Frequency Calibrated _____
 Analyzer Make & Model AGILENT E 4401B
 Analyzer Serial Number MY4511 278 Source of Analyzer _____
 Analyzer Calibration Date 12/2018 Other _____

Measurements

1) 120 KHz to 240 KHz from carrier:
Below Level of Unmodulated Carrier

Minus 120 KHz	<u>-89 dbm</u>	Plus 120 KHz	<u>-91 dbm</u>
Minus 180 KHz	<u>-90 dbm</u>	Plus 180 KHz	<u>-90 dbm</u>
Minus 240 KHz	<u>-89 dbm</u>	Plus 240 KHz	<u>-90 dbm</u>

Any point between 120 KHz and 240 KHz inclusive attenuated to a lower dB level of the unmodulated carrier than the 3 listed above: NO

All points between 120 KHz and 240 KHz inclusive attenuated at least 25 dB between the level of the unmodulated carrier lower: YES

2) 240 KHz to 600 KHz from the carrier:

Below Level of Unmodulated Carrier Below Level of Unmodulated Carrier

Minus 240 KHz	<u>-97 dbm</u>	Plus 240 KHz	<u>-89 dbm</u>
Minus 300 KHz	<u>-98 dbm</u>	Plus 300 KHz	<u>-89 dbm</u>
Minus 350 KHz	<u>-97 dbm</u>	Plus 350 KHz	<u>-90 dbm</u>
Minus 400 KHz	<u>-98 dbm</u>	Plus 400 KHz	<u>-90 dbm</u>
Minus 500 KHz	<u>-98 dbm</u>	Plus 500 KHz	<u>-90 dbm</u>
Minus 600 KHz	<u>-98 dbm</u>	Plus 600 KHz	<u>-90 dbm</u>

Any point between 240 KHz and 600 KHz inclusive attenuated to a lower dB level of the unmodulated carrier than the 6 listed above: NO

218-2578

44474-2: 1990

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2012.01: 9.20

2000-2001

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All points between 240 KHz and 600 KHz inclusive attenuated at least 35 dB below the level of the unmodulated carrier YES

3) Greater than 600 KHz from the carrier:

Based on the formula in 73.317(d) and a TPO of 100 Watts the minimum attenuated level is 80 dB.

Below level of Unmodulated carrier		Below level of Unmodulated carrier	
Minus 700 KHz	-97 dBm	Plus 700 KHz	-96 dBm
Minus 800 KHz	-97 dBm	Plus 800 KHz	-96 dBm
Minus 1.0 MHz	-97 dBm	Plus 1.0 MHz	-97 dBm
Minus 1.5 MHz	-98 dBm	Plus 1.5 MHz	-96 dBm
Minus 2.0 MHz	-97 dBm	Plus 2.0 MHz	-97 dBm
Minus 3.0 MHz	-97 dBm	Plus 3.0 MHz	-97 dBm
Minus 5.0 MHz	-97 dBm	Plus 5.0 MHz	-97 dBm
Minus 6.0 MHz	-98 dBm	Plus 6.0 MHz	-98 dBm

Any point greater than 600 KHz from the carrier attenuated to a lower dB level of the unmodulated carrier than the 8 listed above NO

All points greater than the 600 KHz from the carrier attenuated at least 80 dB below the level of the unmodulated carrier YES

Comments:

SCANNED ALL FREQUENCIES BETWEEN 80 MHz AND 450 MHz.
NO SPURIOUS EMISSIONS OR HARMONICS WERE DETECTED.

4) Preemphasis set at 75 micro-seconds

Signed

Gordon Ichikawa JUNE 29, 2018
Gordon Ichikawa
FCC License PG-11-20154

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NO SPURIOUS CHARGES AS PASSENGERS WERE DETAINED
24 HOURS AND INTERVIEWED BY FBI AGENTS

27

FROM 2000 TO 2006