

SUBMITTED MEASURED DATA

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RF POWER OUTPUT DATA

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

Measured RF output	5	Watt
Normal DC Voltage	7.5	Volts
Normal DC Current	1.55	Amps
Primary Supply Voltage	7.5	Volts

Measured RF output	3	Watt
Normal DC Voltage	7.5	Volts
Normal DC Current	1.1	Amps
Primary Supply Voltage	7.5	Volts

Measured RF output	1	Watt
Normal DC Voltage	7.5	Volts
Normal DC Current	0.75	Amps
Primary Supply Voltage	7.5	Volts

AUDIO FILTER RESPONSE

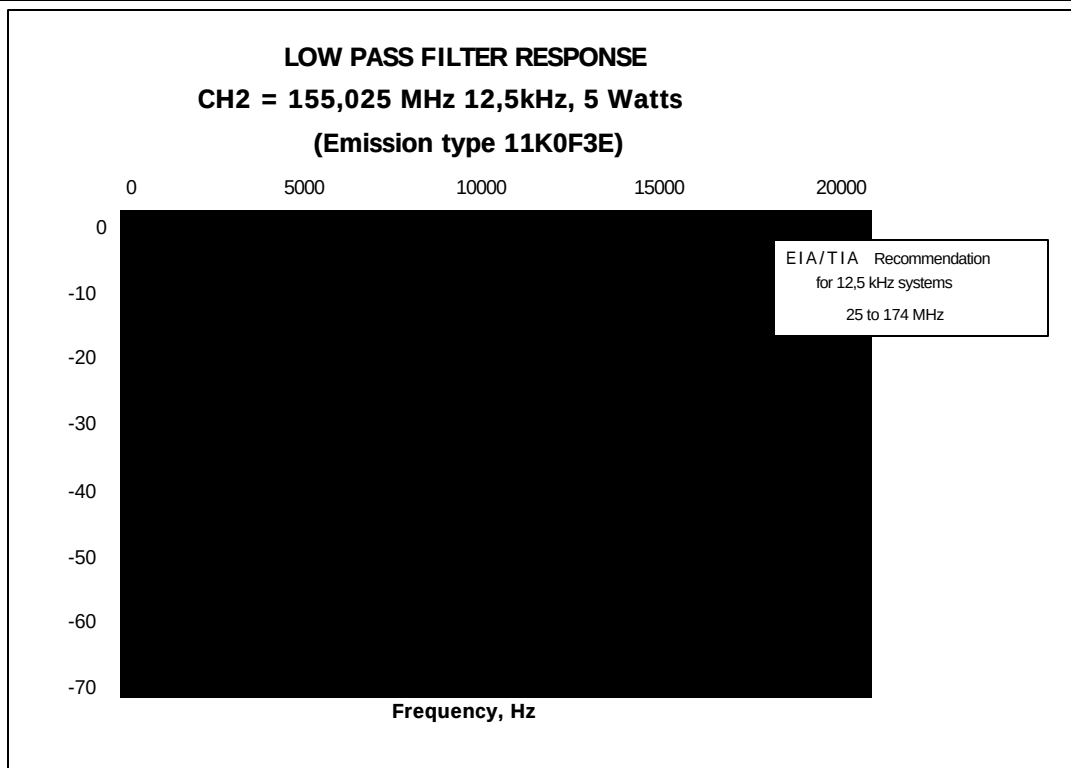
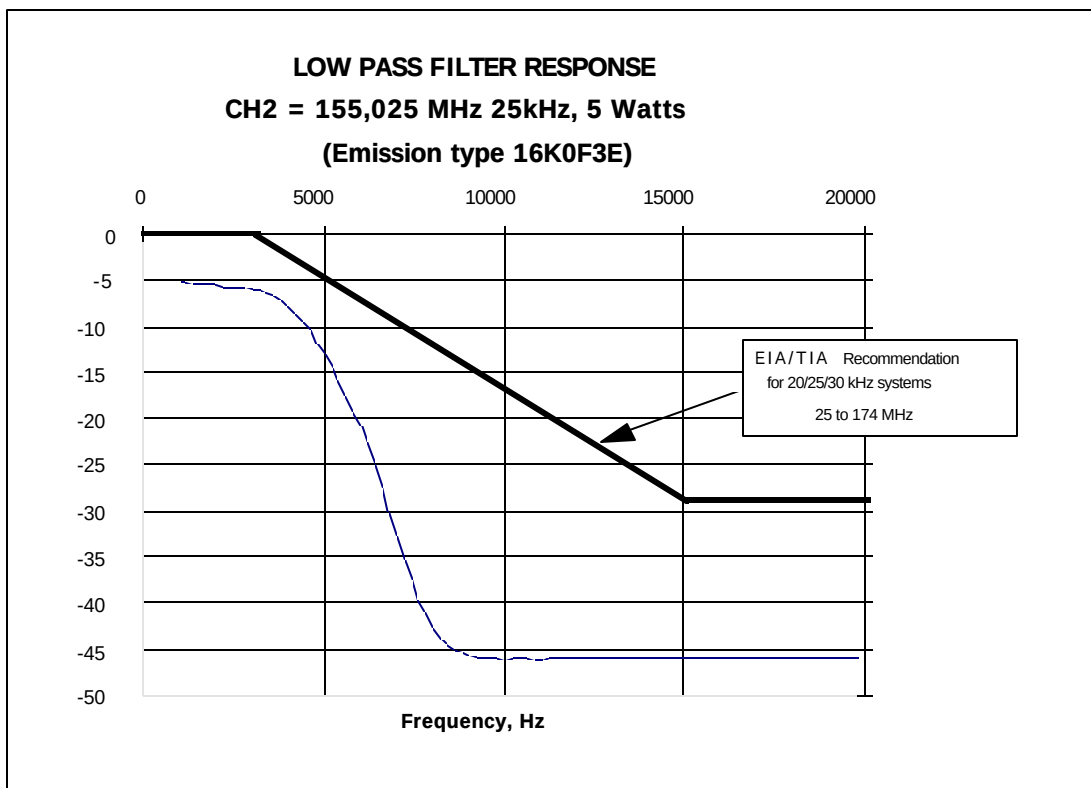
Attached as Exhibit 9B.

EXHIBIT 9B

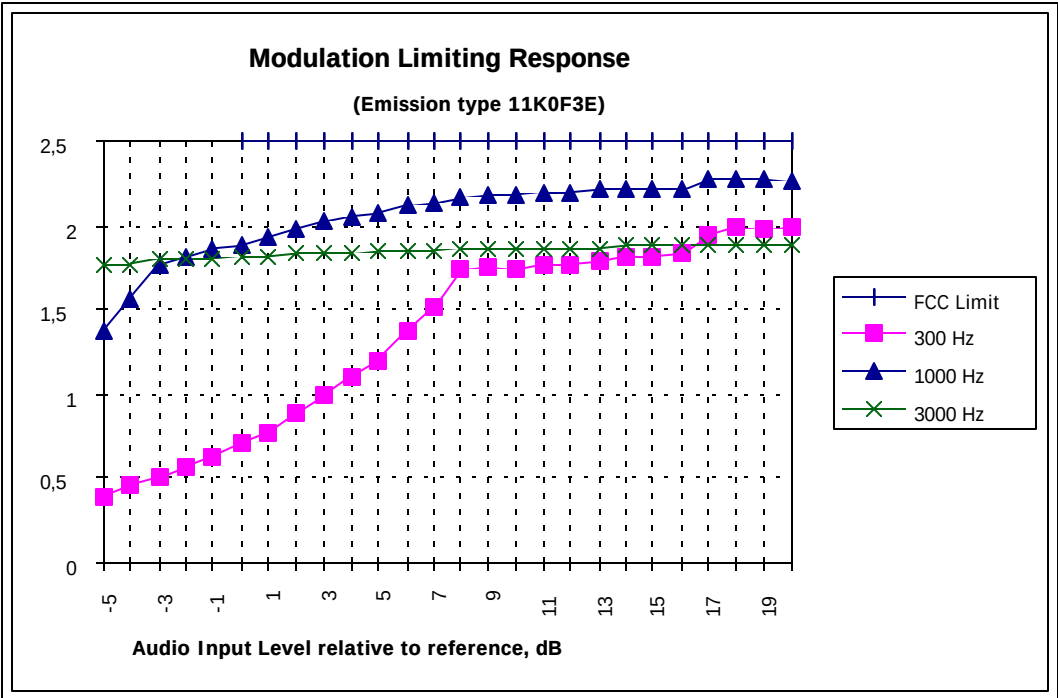
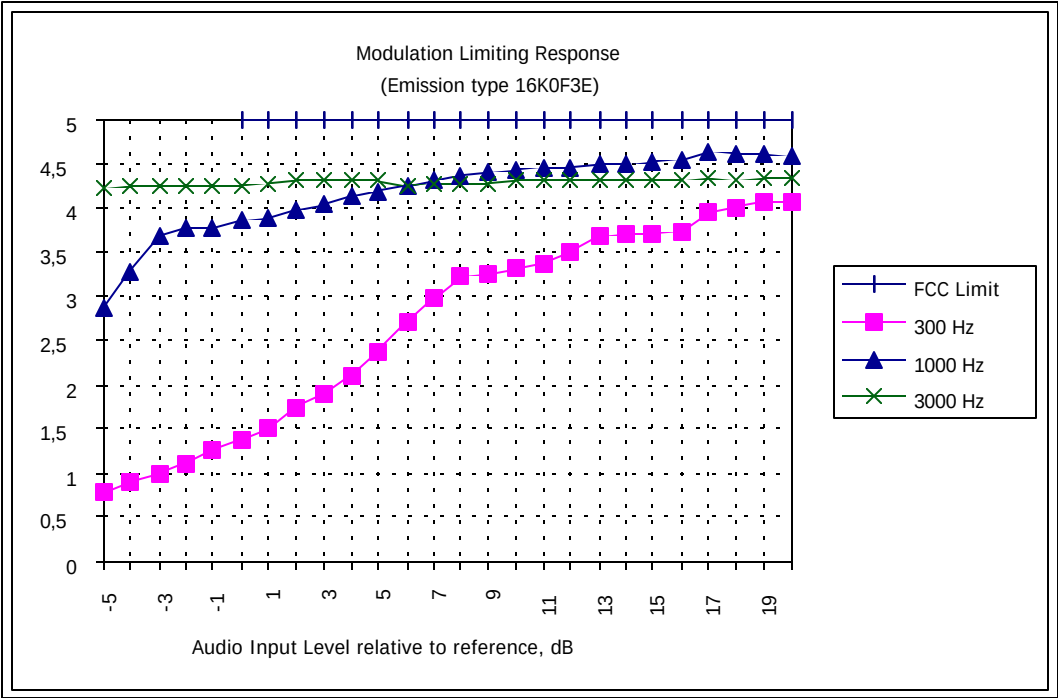
AUDIO FILTER RESPONSE

Attached as Exhibit 9B.

EXHIBIT 9B

LOW PASS FILTER RESPONSE

MODULATION LIMITING



OCCUPIED BANDWIDTH DATA

BANDWIDTH CALCULATIONS:

Carson's Rule for FM modulation is utilized to compute the bandwidth shown in the FCC emission designator. Carson's Rule is:

$$BW = 2 * (M + D) \quad \text{where:} \quad \begin{array}{l} BW = \text{Bandwidth} \\ M = \text{Maximum modulating frequency} \\ D = \text{Deviation} \end{array}$$

Shown below are the calculations required for FCC ID: AZ489FT3794.

EXHIBIT 9E-1

Standard Audio Modulation (25 kHz Channelization, Analog Voice):
Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3 kHz with a 5 kHz deviation.

$$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} \implies 16K0$$

F3E portion of the designator indicates voice.

Therefore, the entire designator for 25 kHz channelization analog voice is 16K0F3E.

EXHIBIT 9E-2

Standard Audio Modulation (12.5 kHz Channelization, analog voice):
Emission Designator 11K0F3E

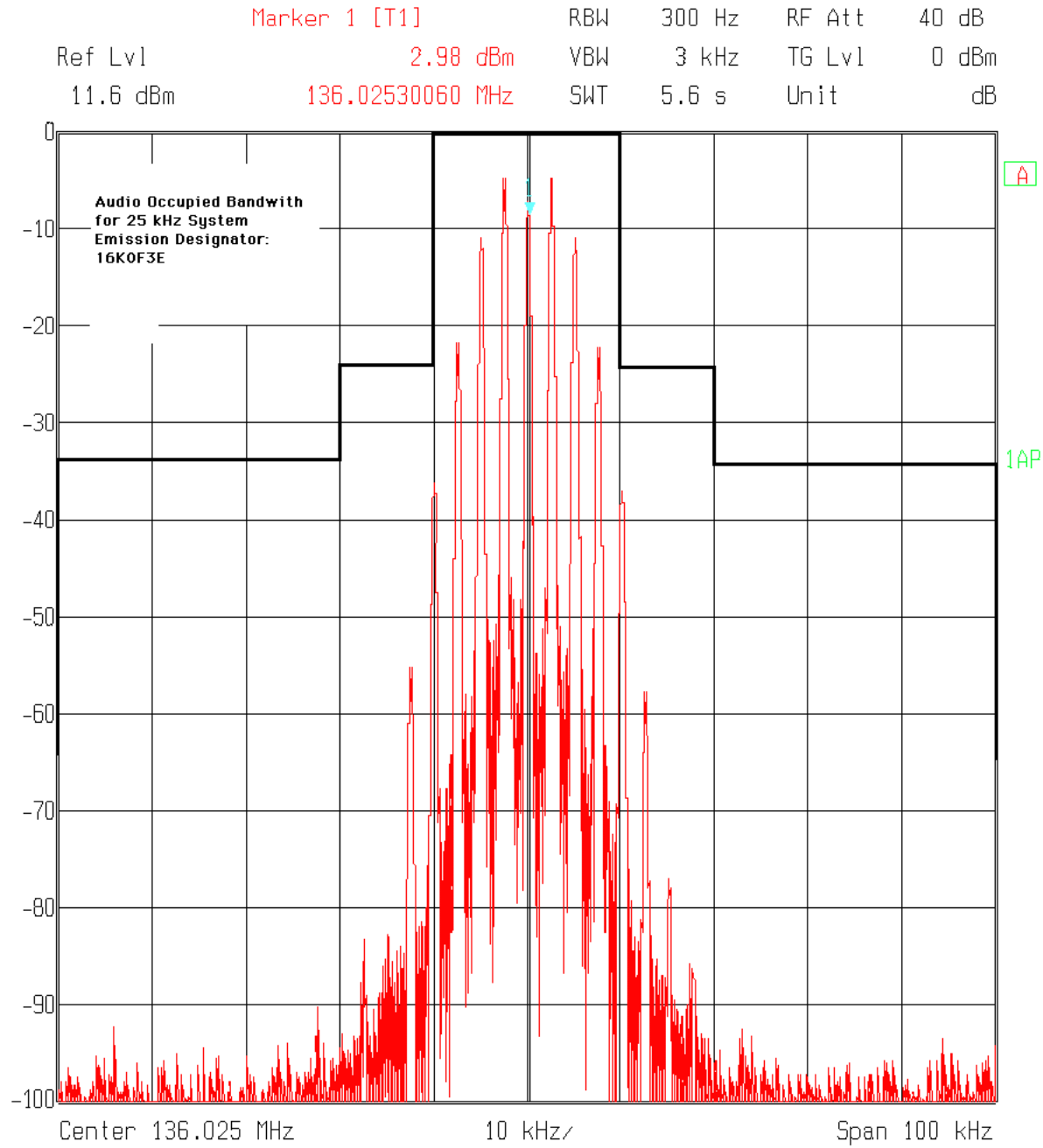
In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} \implies 11K0$$

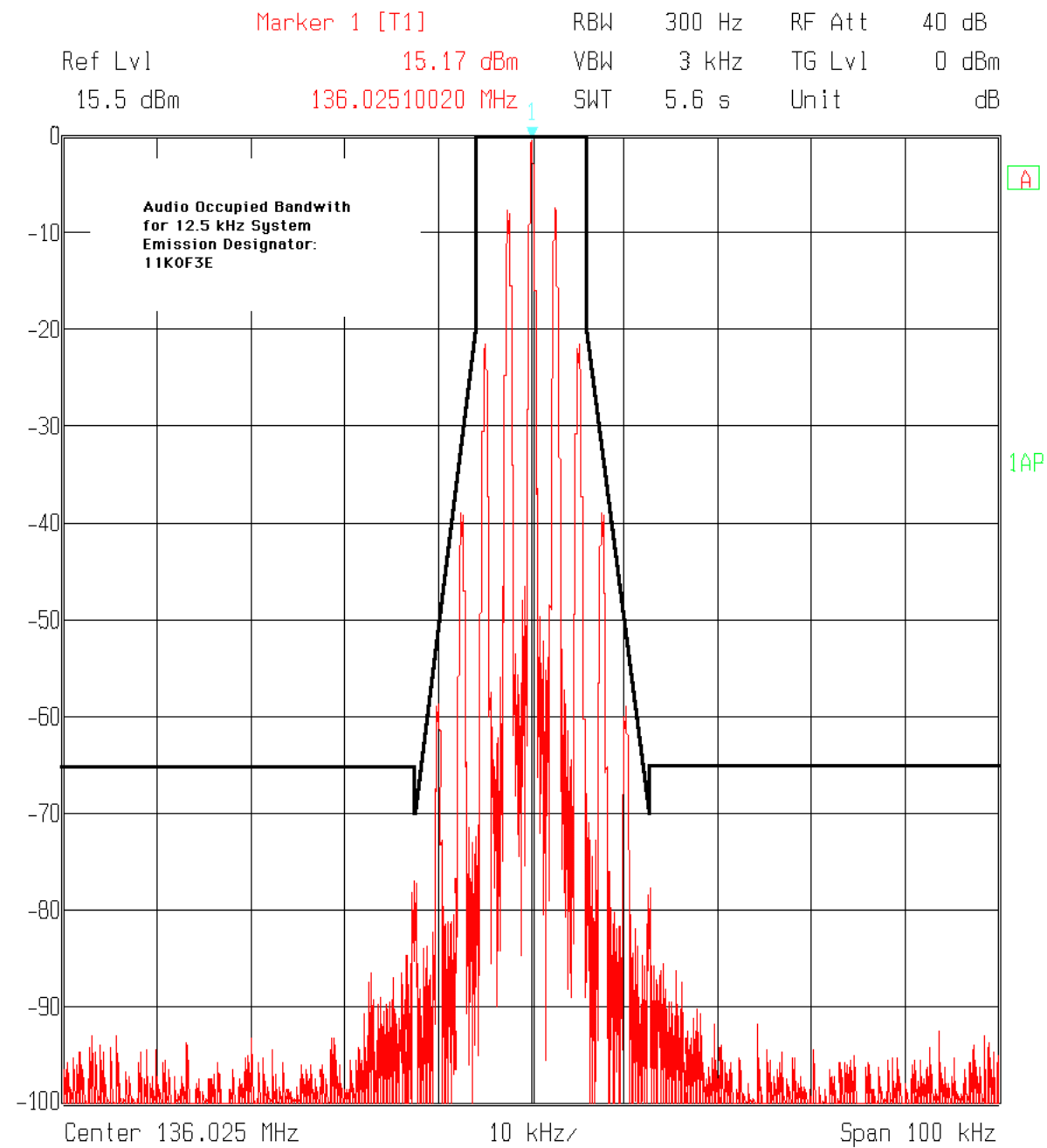
F3E portion of the designator indicates voice.

Therefore, the entire designator for 12.5 kHz channelization analog voice is 11K0F3E.

OCCUPIED BANDWIDTH

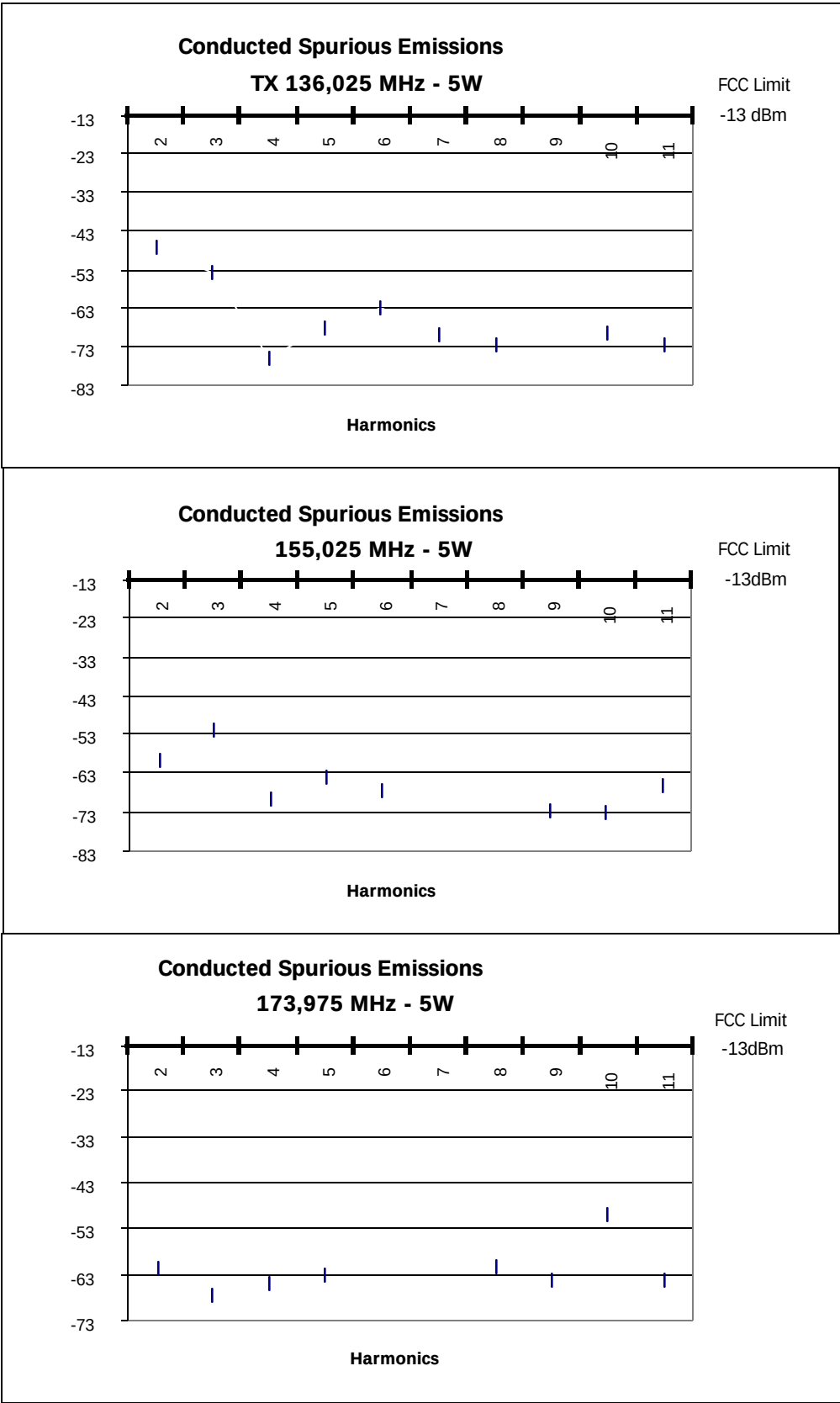


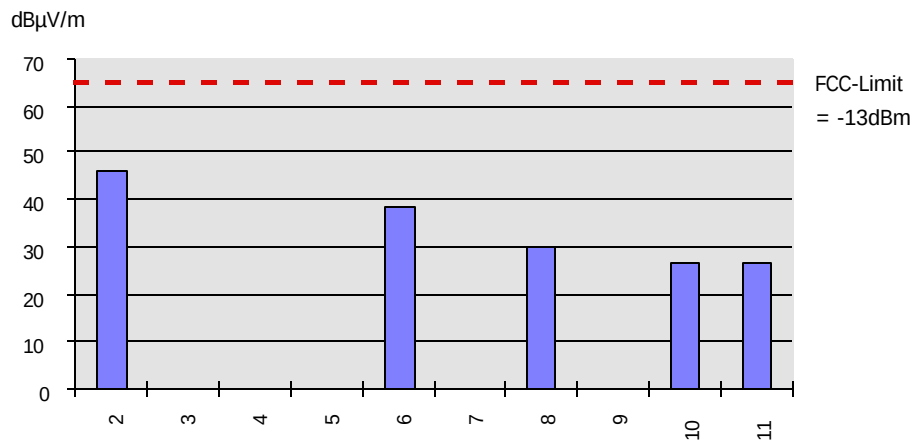
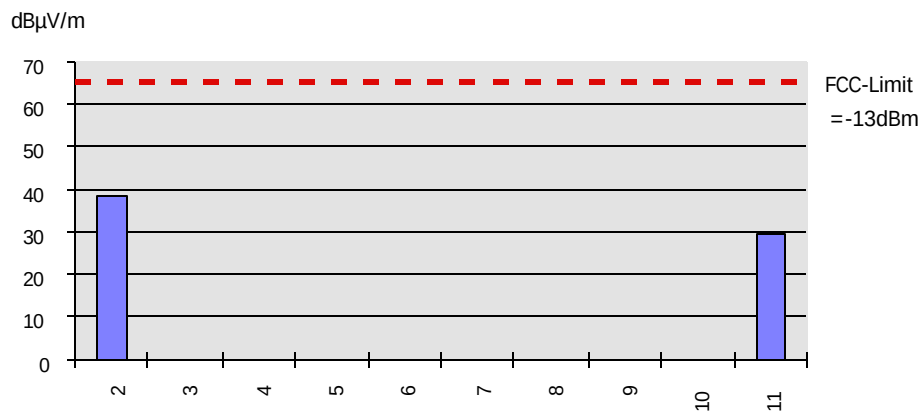
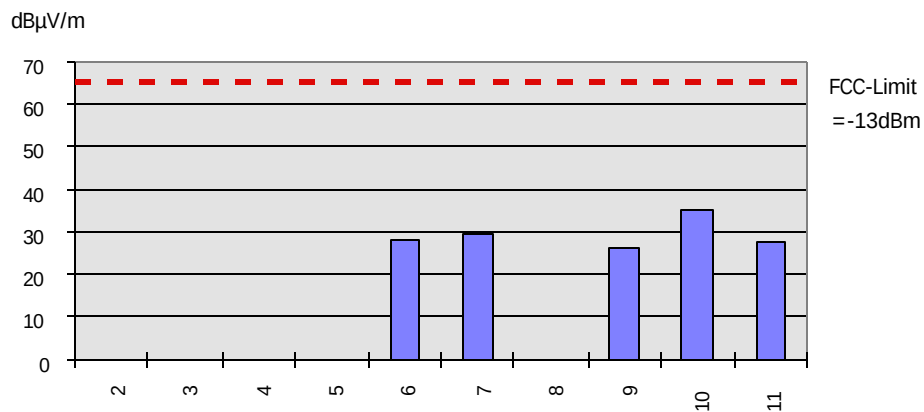
Date: 12.JUN.98 14:19:55

OCCUPIED BANDWIDTH

Date: 12.JUN.98 13:56:48

CONDUCTED SPURIOUS EMISSIONS

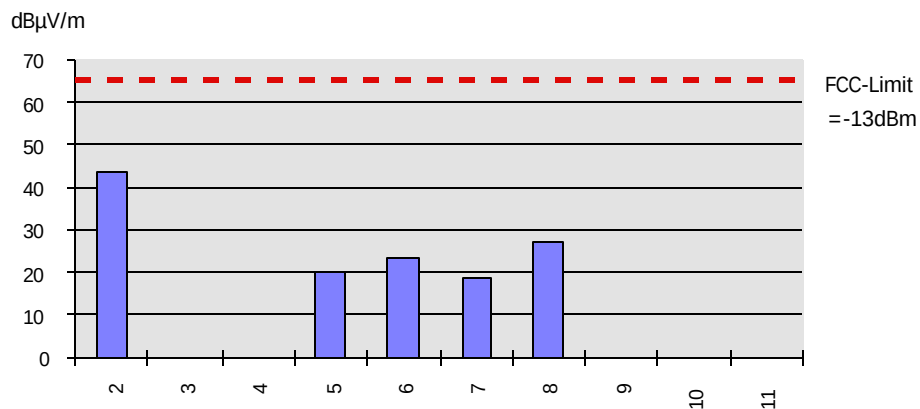
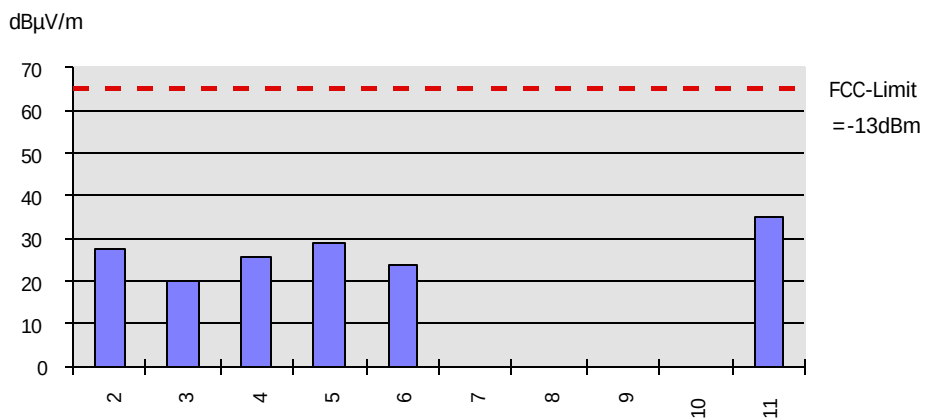
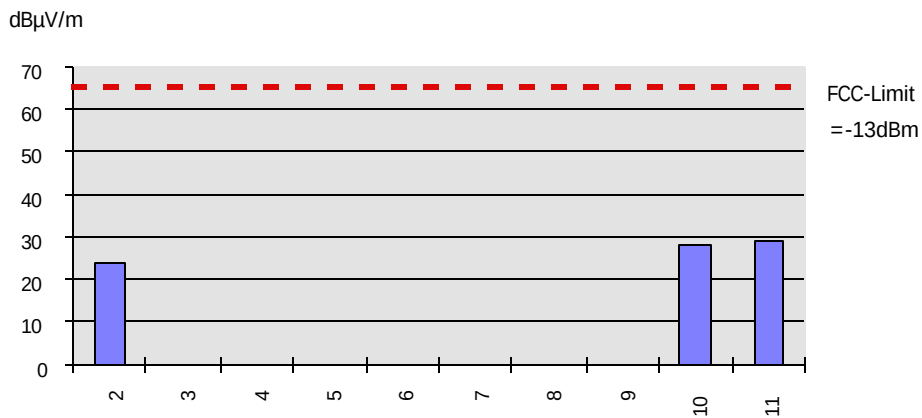


RADIATED SPURIOUS EMISSIONS**TX 136 MHz 5Watts - Taunusstein OATS****TX 155 MHz 5Watts - Taunusstein OATS****TX 174 MHz 5Watts - Taunusstein OATS**

MOTOROLA INC

FCC ID: AZ489FT3794

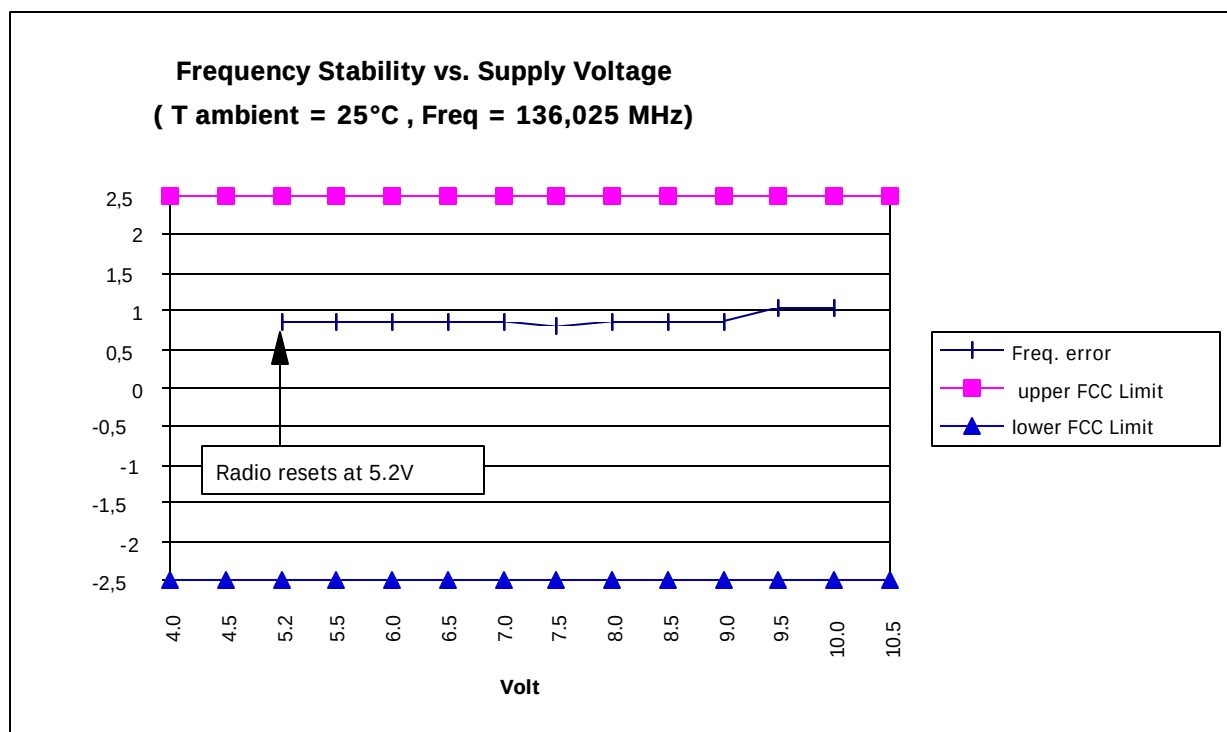
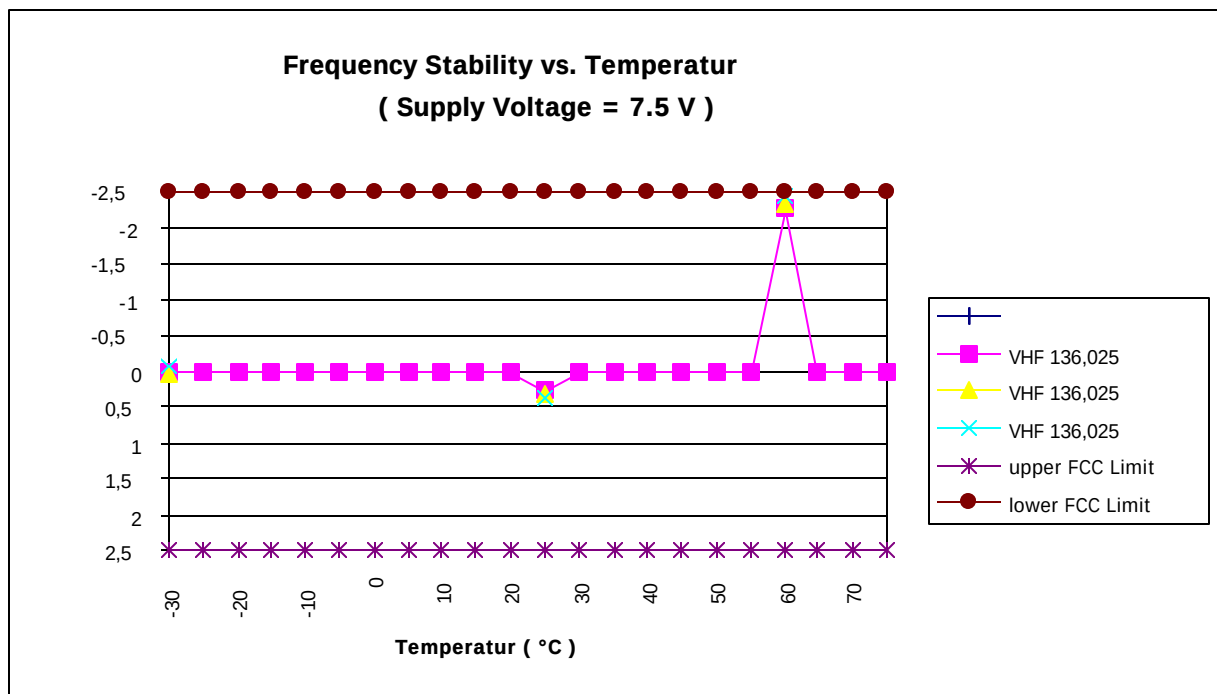
EXHIBIT 9G-1

RADIATED SPURIOUS EMISSIONS**TX 136 MHz 1Watts - Taunusstein OATS****TX 155 MHz 1Watts - Taunusstein OATS****TX 174 MHz 1Watts - Taunusstein OATS**

MOTOROLA INC

FCC ID: AZ489FT3794

EXHIBIT 9G-2

FREQUENCY STABILITY DATA

POWER LINE CONDUCTED SPURIOUS

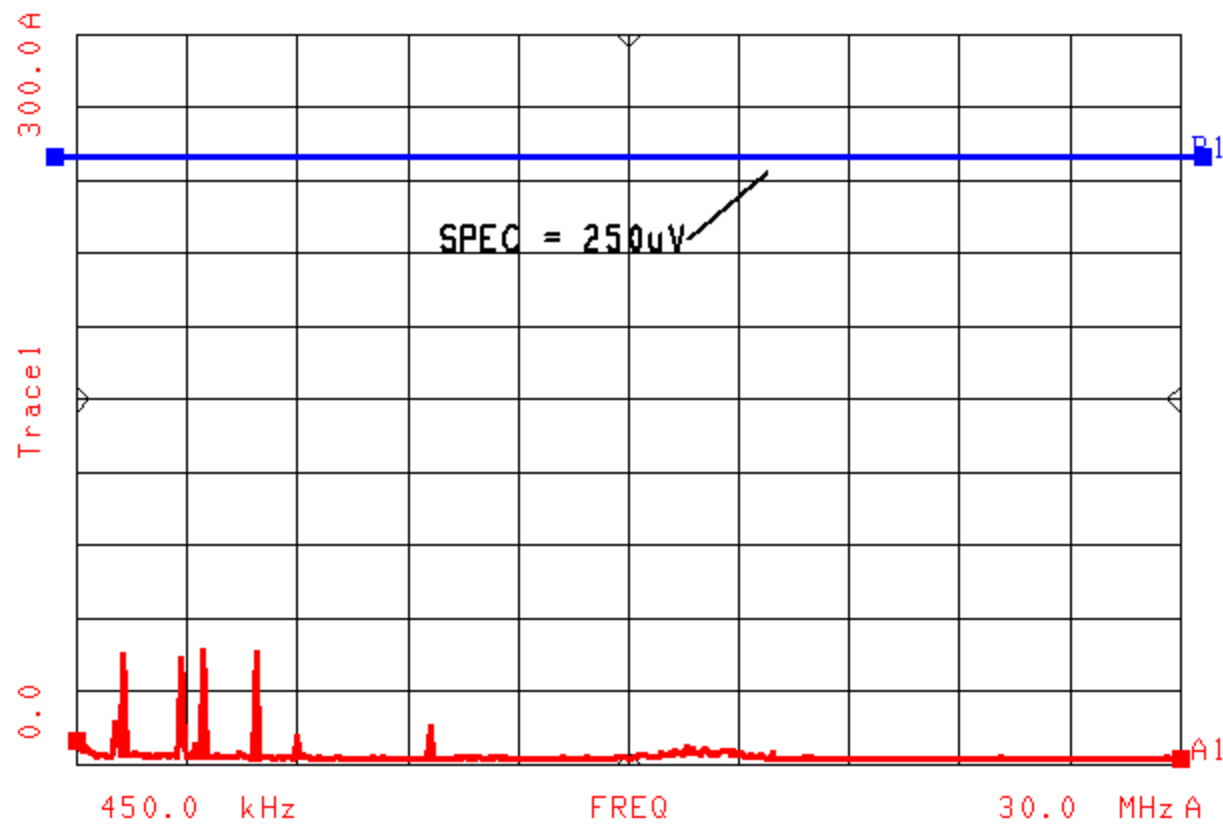


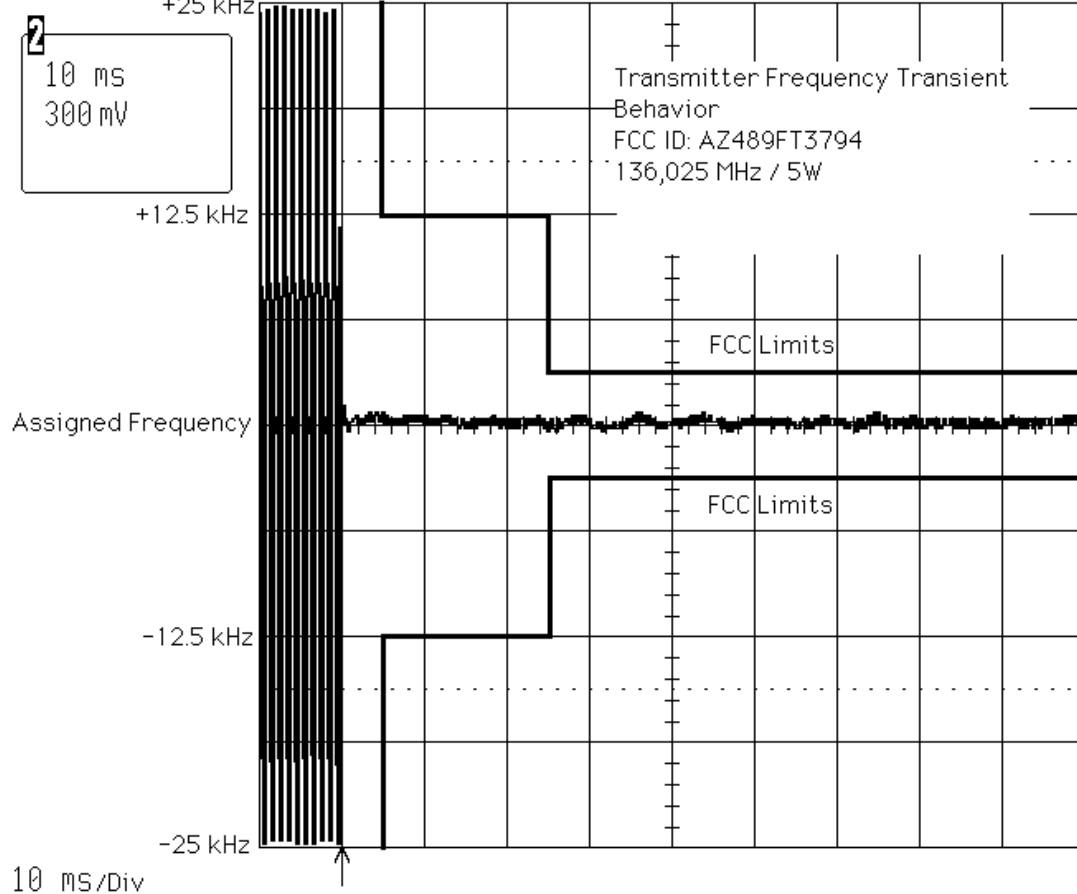
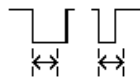
EXHIBIT 9I-1

TRANSIENT FREQUENCY BEHAVIOR

28-May-98

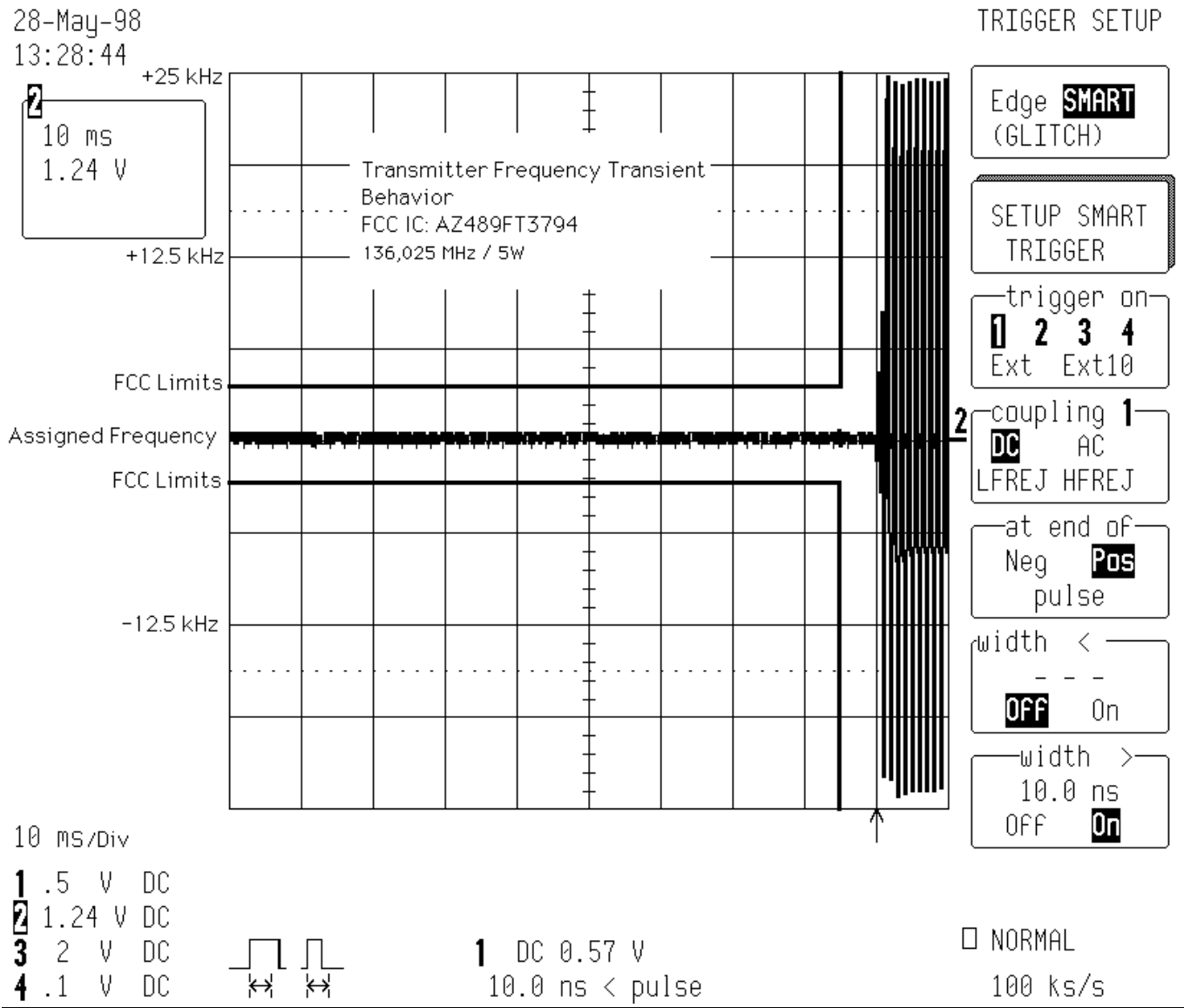
13:14:09

TRIGGER SETUP

Edge **SMART**
(GLITCH)SETUP SMART
TRIGGERtrigger on
1 2 3 4
Ext Ext10coupling **1**
DC AC
LFREJ HFREJat end of
Neg Pos
pulsewidth <
- - -
OFF Onwidth >
10.0 ns
OFF **On****1** .5 V DC**2** 300 mV DC**3** 2 V DC**4** .1 V DC**1** DC 0.57 V
10.0 ns < pulse☐ NORMAL
100 ks/s

Measured values identical for 12.5 kHz and 25 kHz channel spacing

TRANSIENT FREQUENCY BEHAVIOR



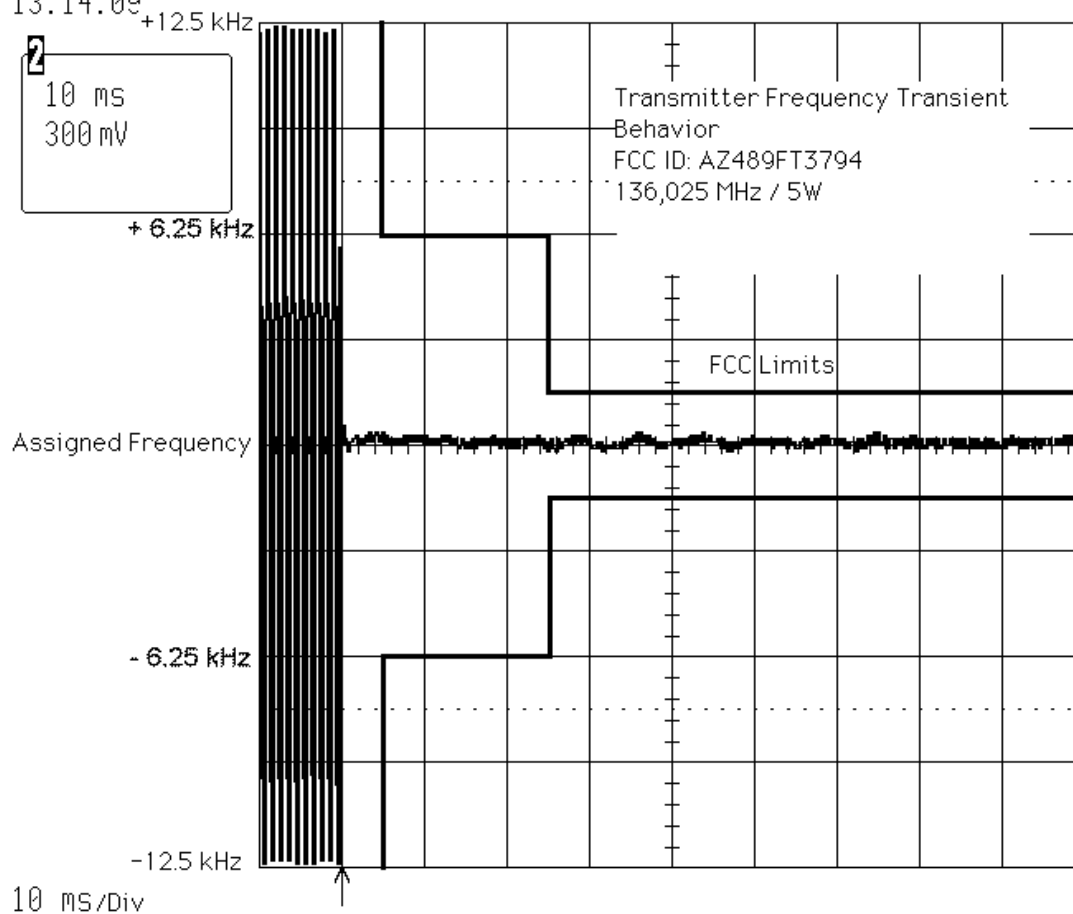
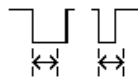
Measured values identical for 12,5 kHz and 25 kHz channel spacing

TRANSIENT FREQUENCY BEHAVIOR

28-May-98

13:14:00

TRIGGER SETUP

Edge **SMART**
(GLITCH)SETUP SMART
TRIGGERtrigger on
1 2 3 4
Ext Ext10coupling **1**
DC AC
LFREJ HFREJat end of
Neg Pos
pulsewidth <
- - -
OFF Onwidth >
10.0 ns
OFF **On****1** .5 V DC**2** 300 mV DC**3** 2 V DC**4** .1 V DC**1** DC 0.57 V

10.0 ns < pulse

□ NORMAL

100 ks/s

Measured values identical for 12,5 kHz and 25 kHz channel spacing

TRANSIENT FREQUENCY BEHAVIOR

