SUBMITTED MEASURED DATA

	MEASUREMENT	EXHIBIT	NUMBER OF PAGES
I	RF Power Output	9A	1
II	Audio Response	9B	2
III	Low Pass Filter Response	9C	1
IV	Modulation Limiting	9D	1
V	Occupied Bandwidth	9E	3
VI	Conducted Spurious Emissions	9F	1
VII	Radiated Spurious Emissions	9G	2
VIII	Frequency Stability A. Temperature B. Supply Voltage	9H	1
IX	Power Line Conducted & Transient Frequency Behaviour	9I	5

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

EXHIBIT 9A

AUDIO FILTER RESPONSE

Attached as Exhibit 9B.

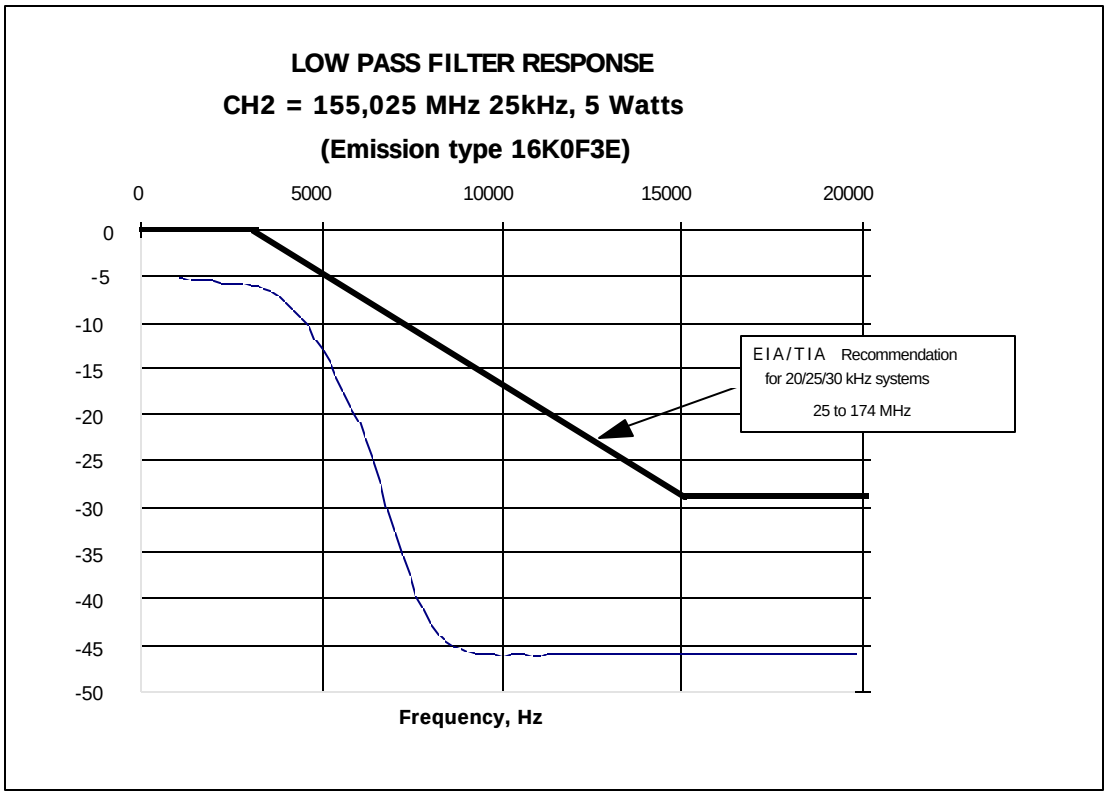
EXHIBIT 9B

AUDIO FILTER RESPONSE

Attached as Exhibit 9B.

EXHIBIT 9B

LOW PASS FILTER RESPONSE



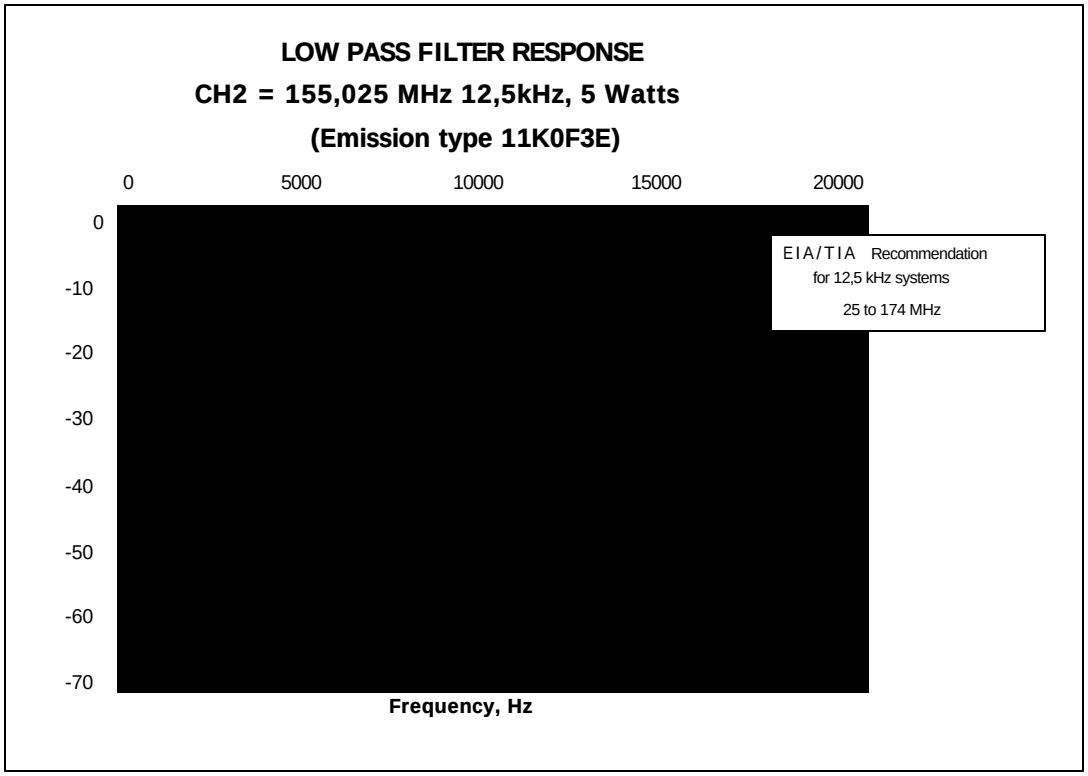
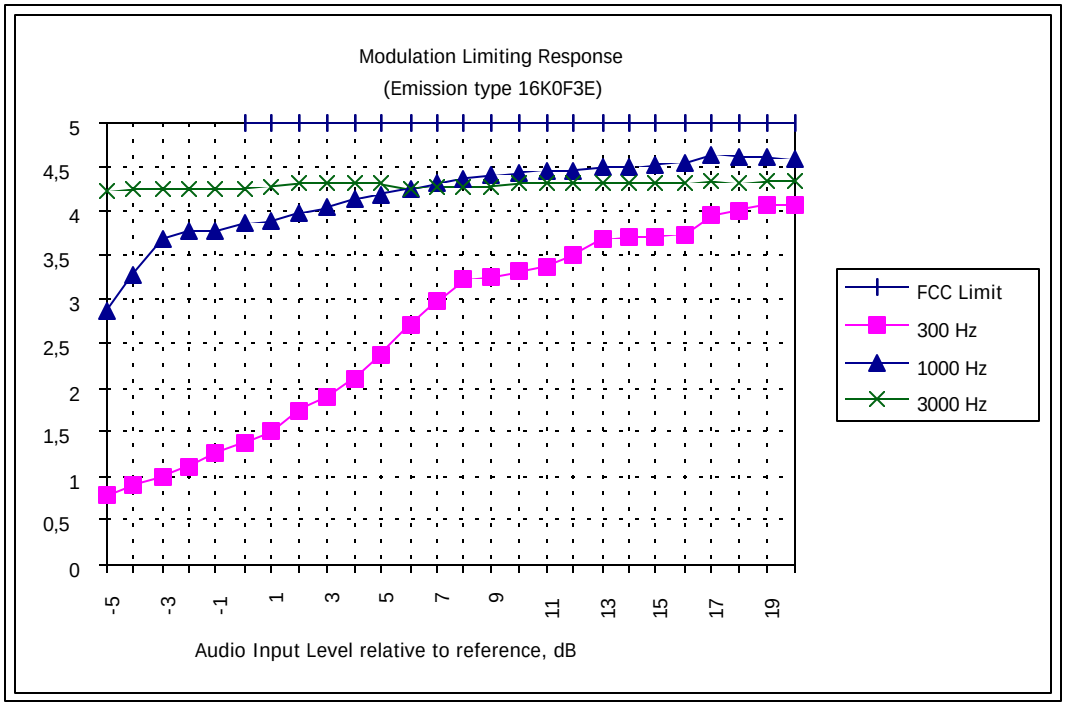


EXHIBIT 9C

MODULATION LIMITING



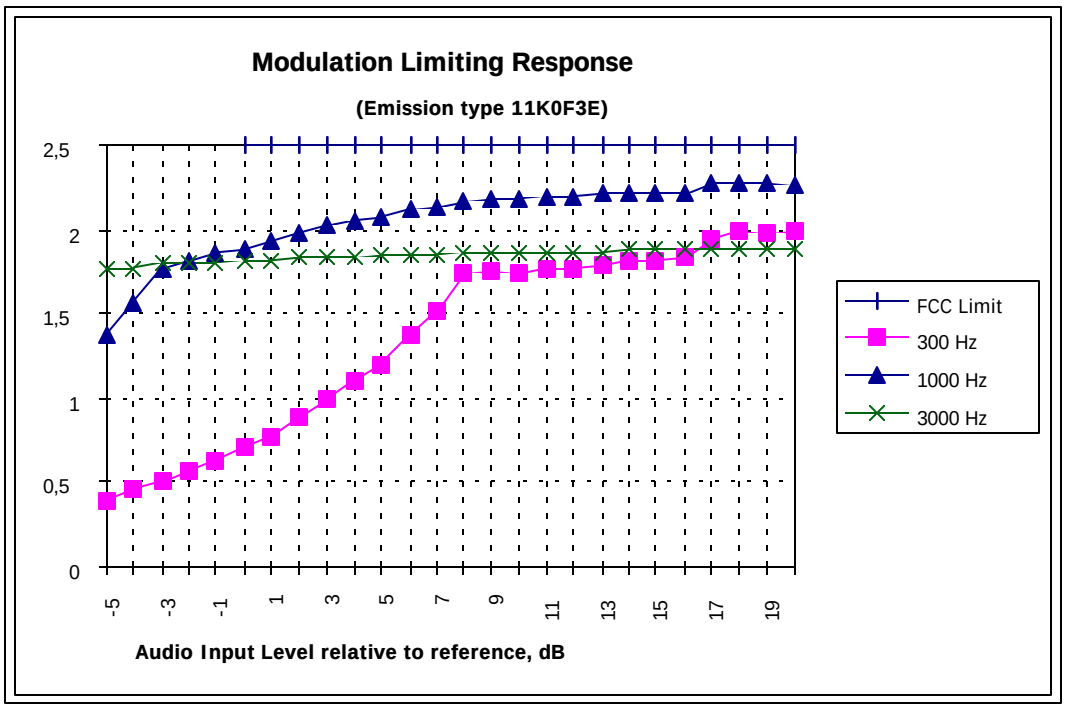


EXHIBIT 9D

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) where: BW = Bandwidth
M=Maximum modulating frequency
D = Deviation

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 kHz + 5 kHz) = 16 kHz ===> 16K0
F3E portion of the designator indicates voice.

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

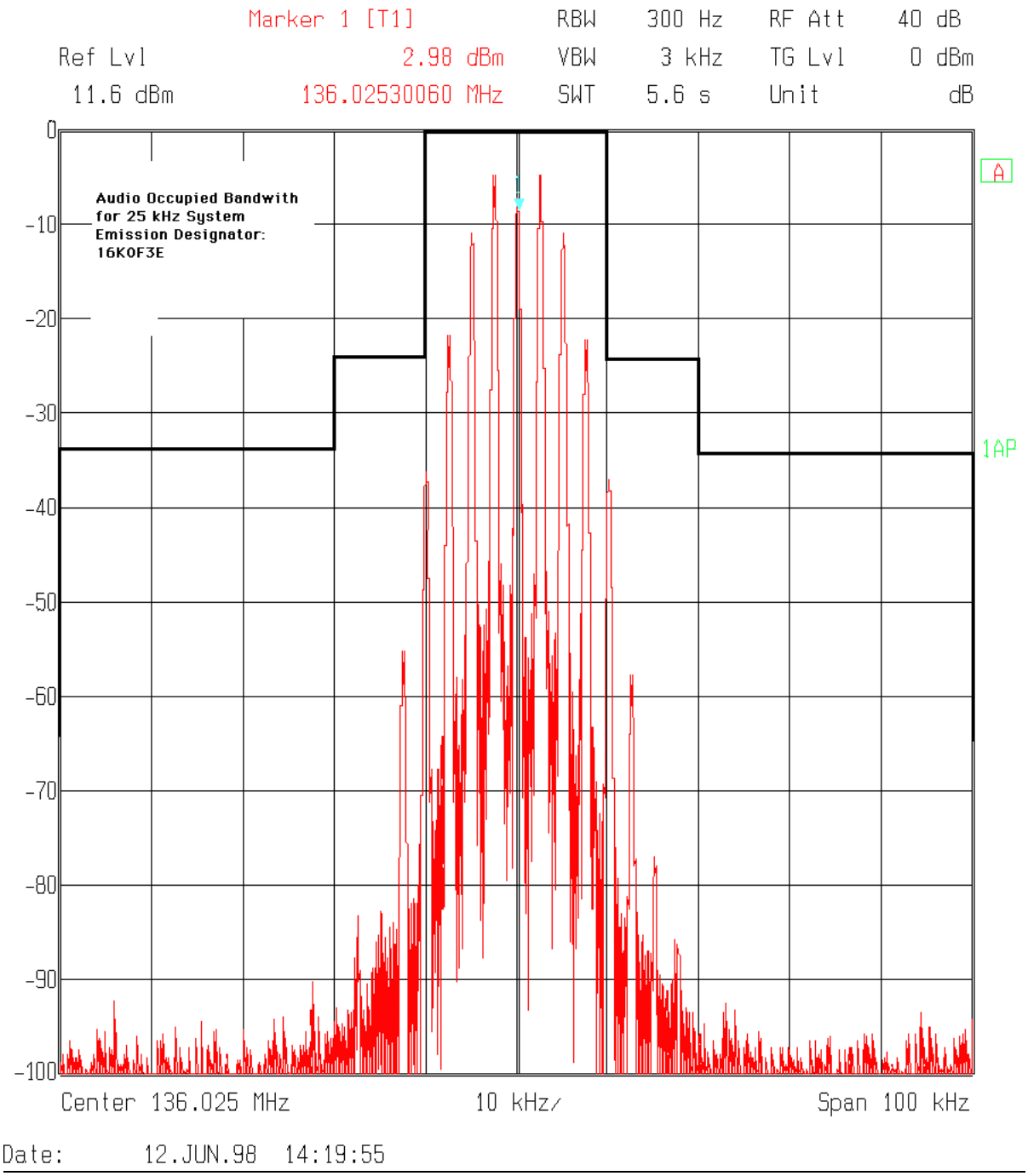
EXHIBIT 9E-2
Standard Audio Modulation (12.5 kHz Channelization, analog voice):
Emission Designator 11K0F3E

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

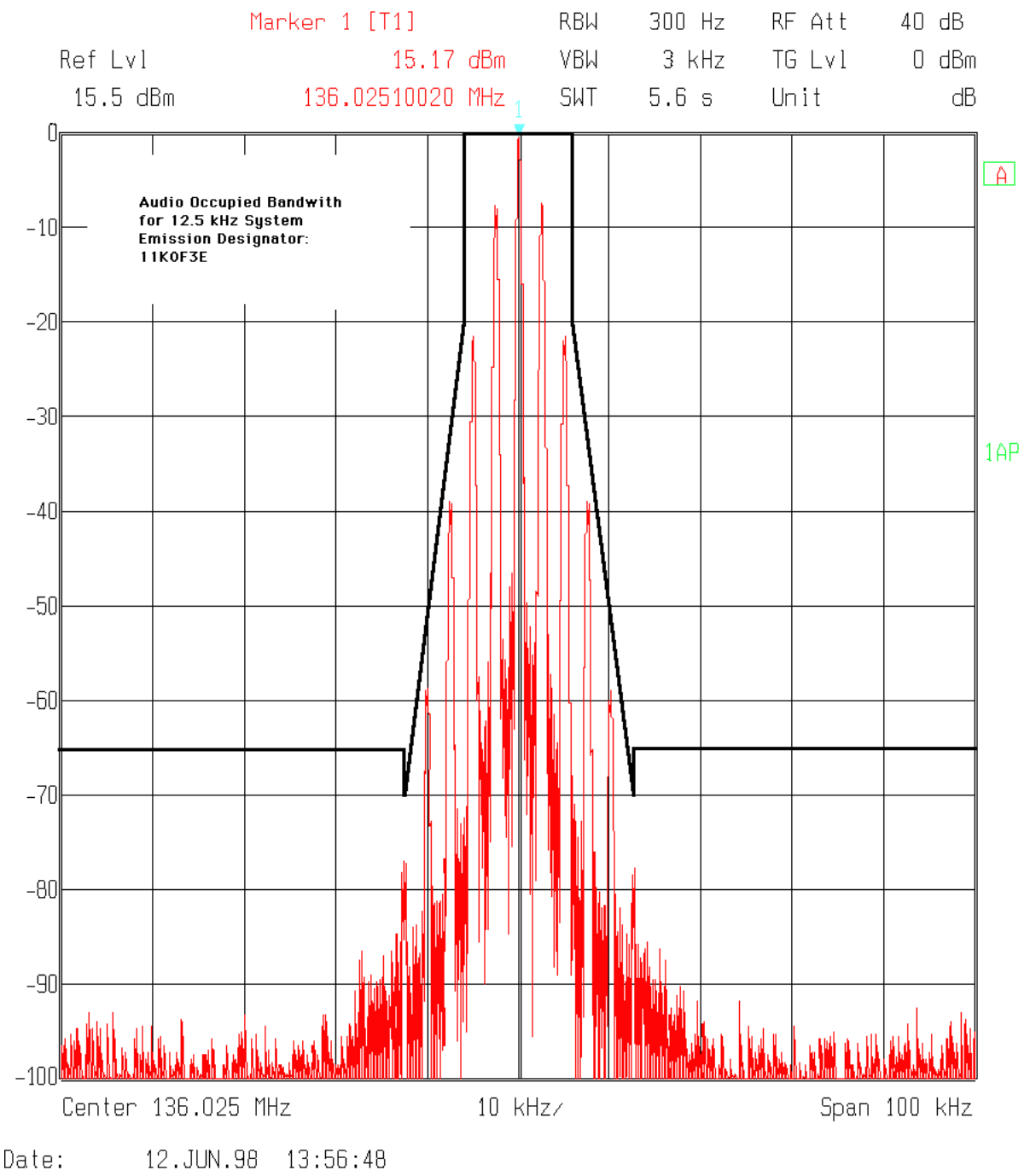
BW = 2(M+D) = 2*(3.0 kHz + 2.5 kHz) = 11 kHz ===> 11K0
F3E portion of the designator indicates voice.

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

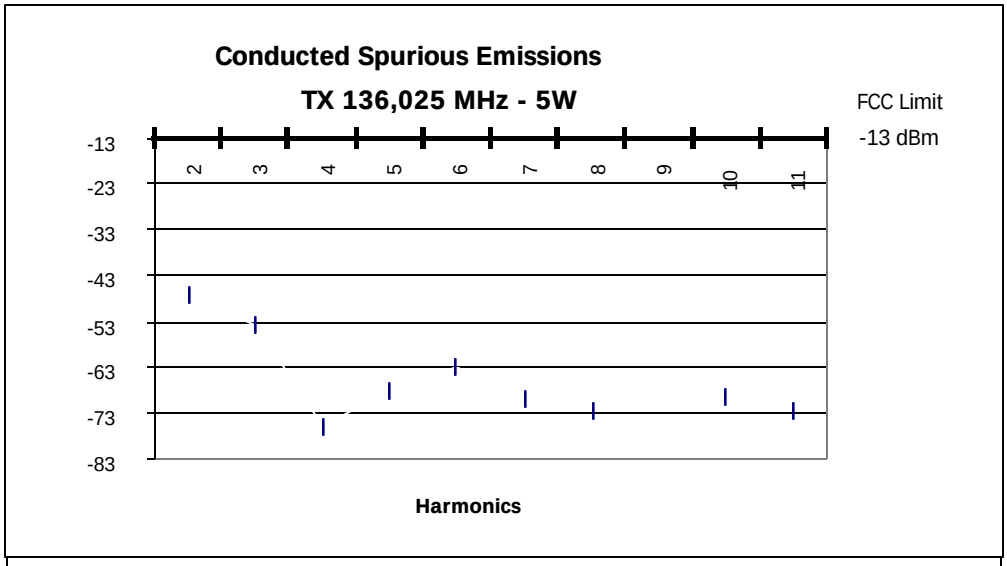
OCCUPIED BANDWITH

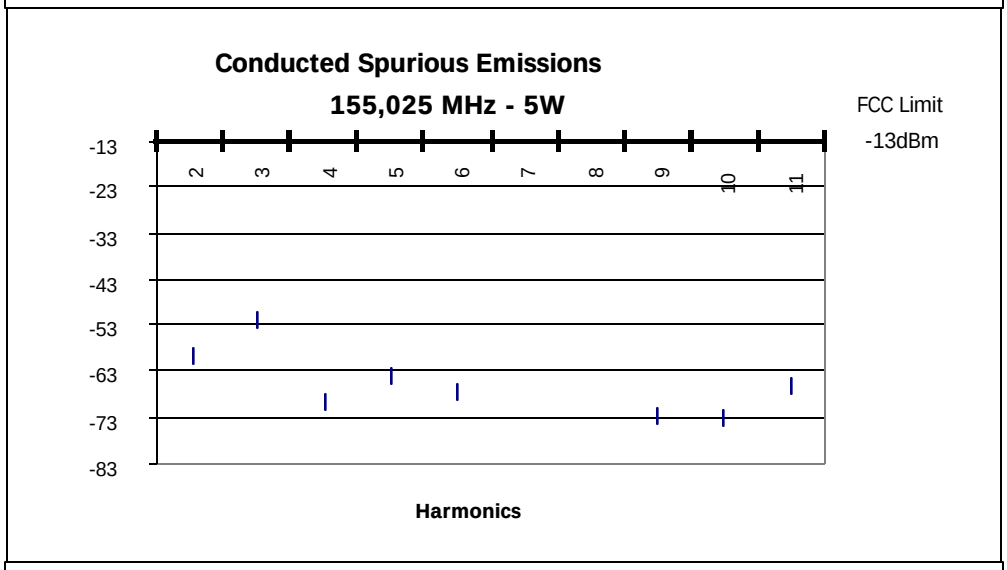


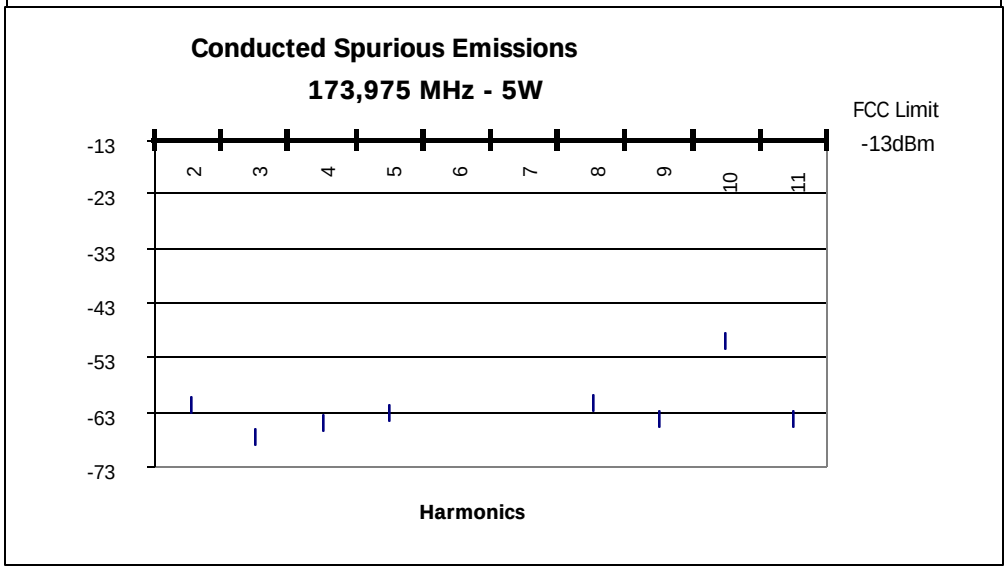
OCCUPIED BANDWITH



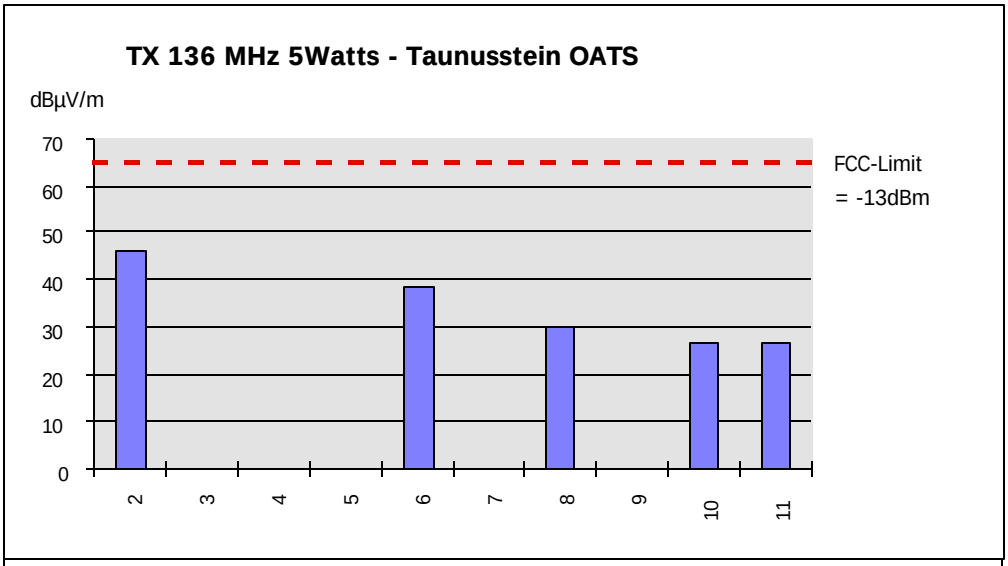
CONDUCTED SPURIOUS EMISSIONS

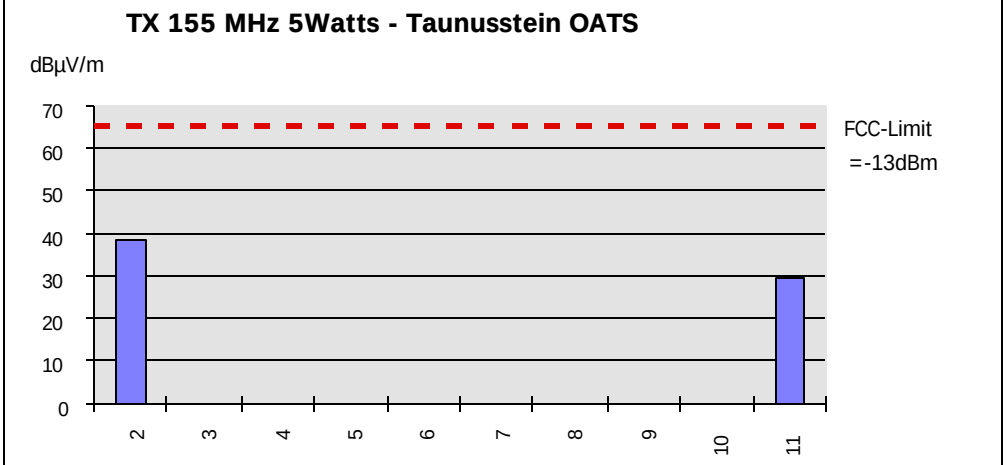






RADIATED SPURIOUS EMISSIONS





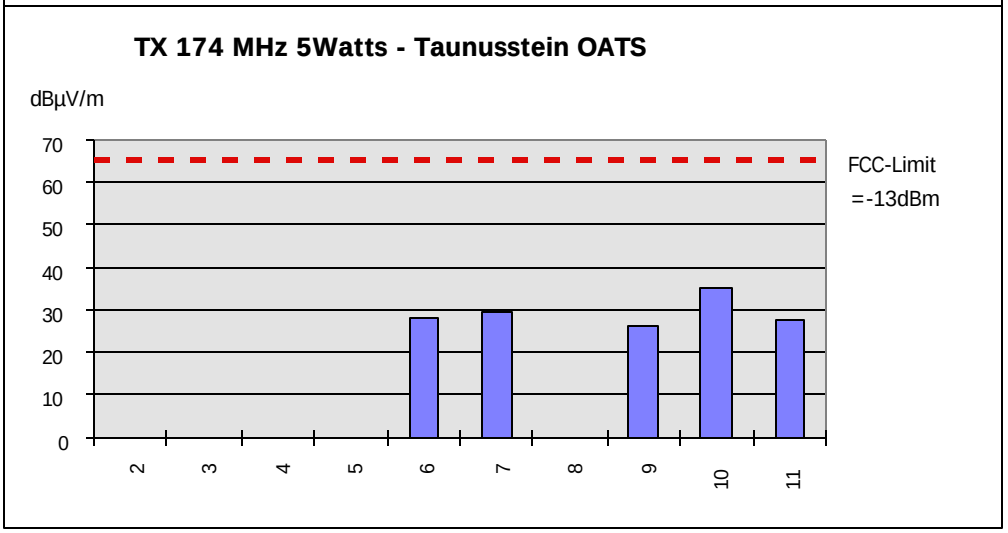
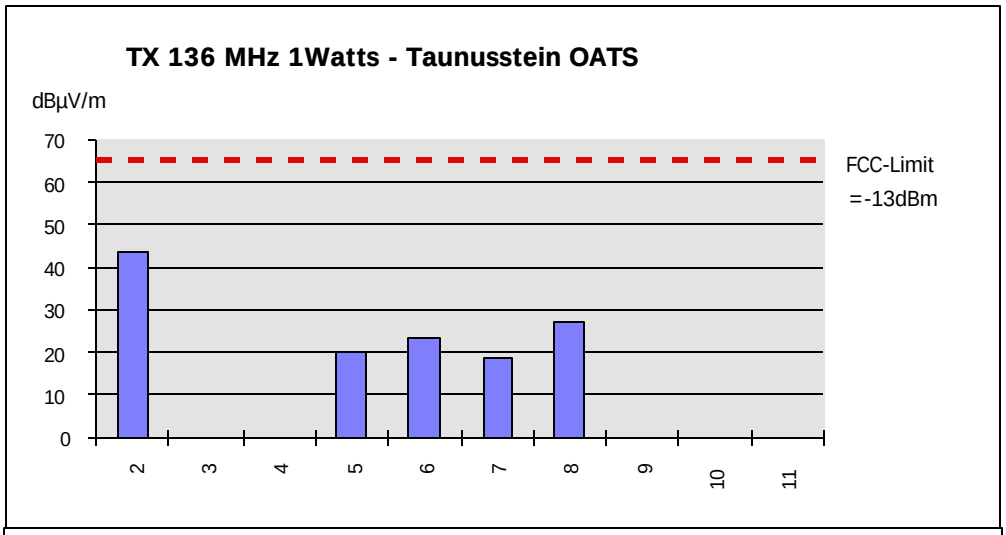
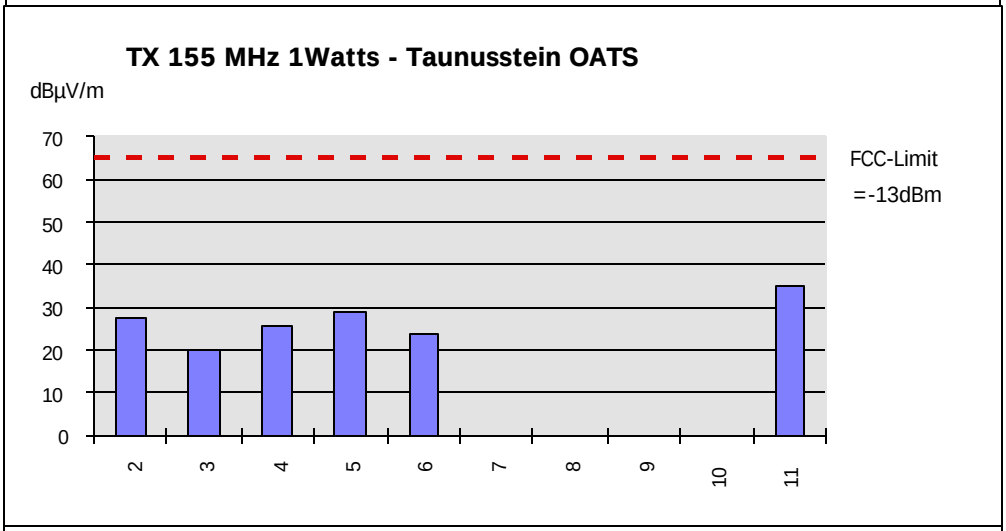
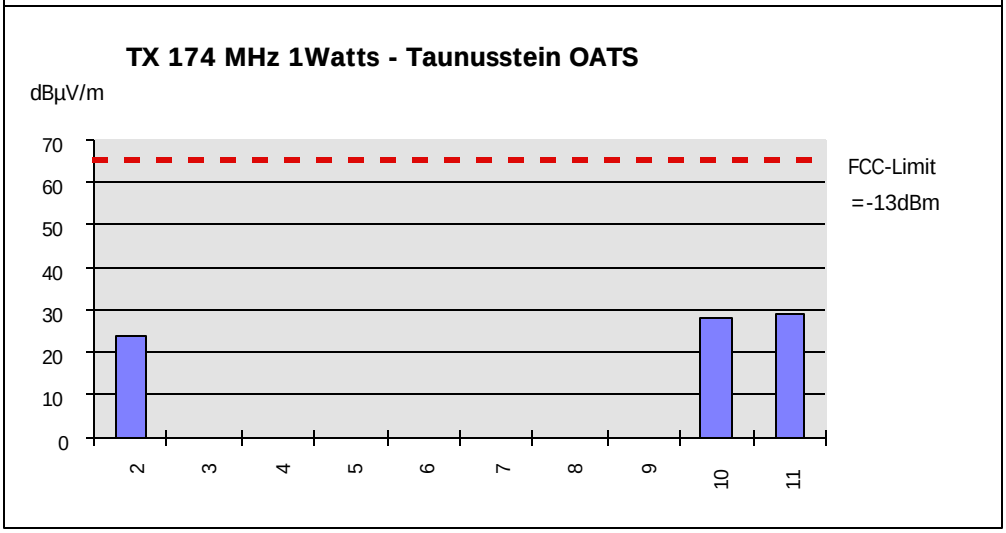


EXHIBIT 9G-1

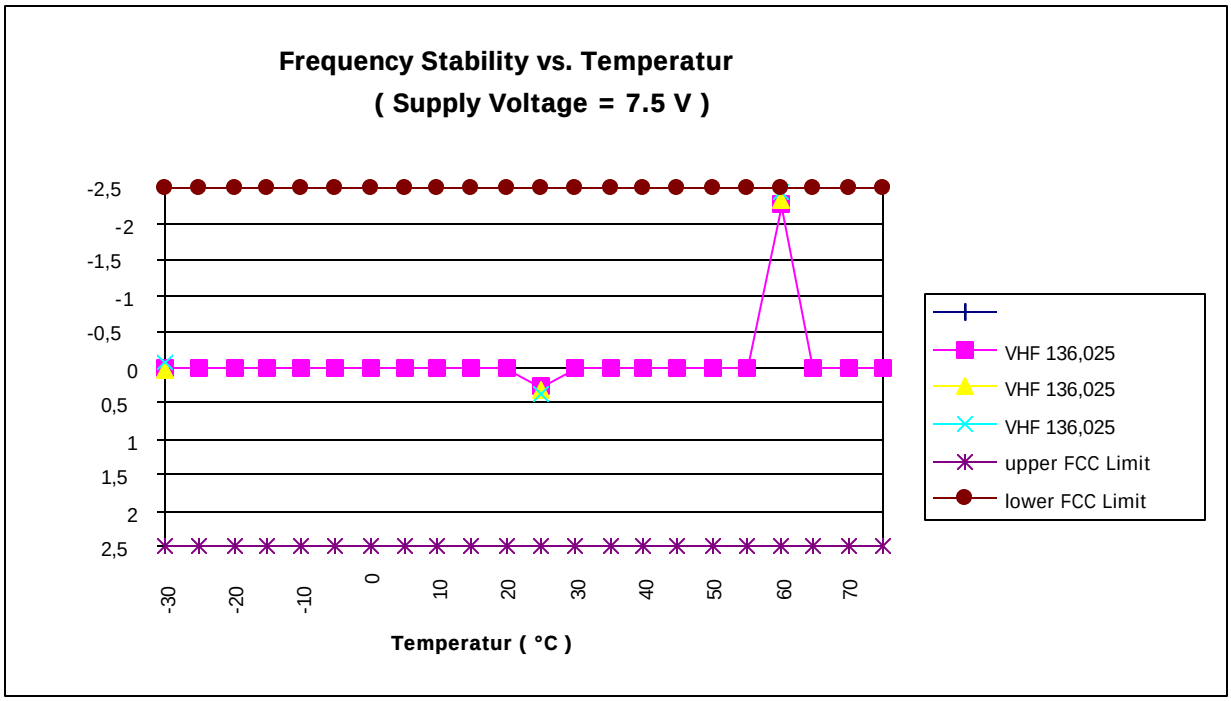
RADIATED SPURIOUS EMISSIONS







FREQUENCY STABILITY DATA



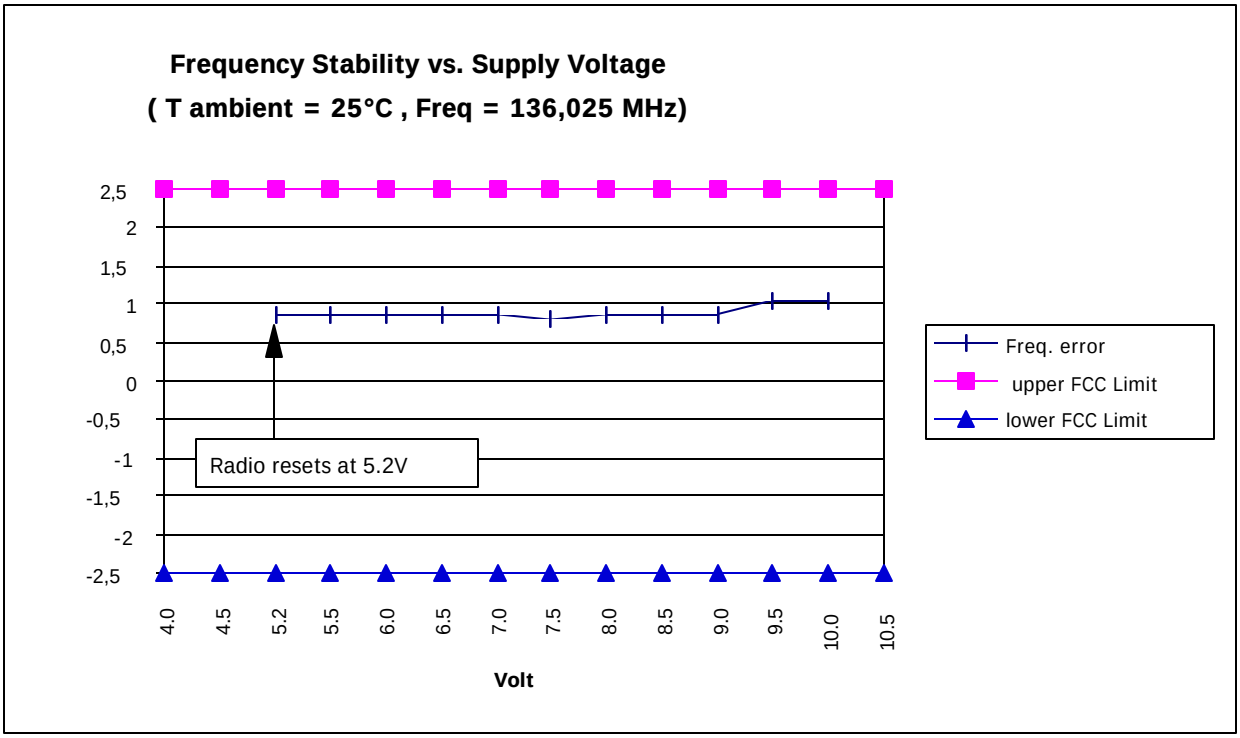


EXHIBIT 9H

POWER LINE CONDUCTED SPURIOUS

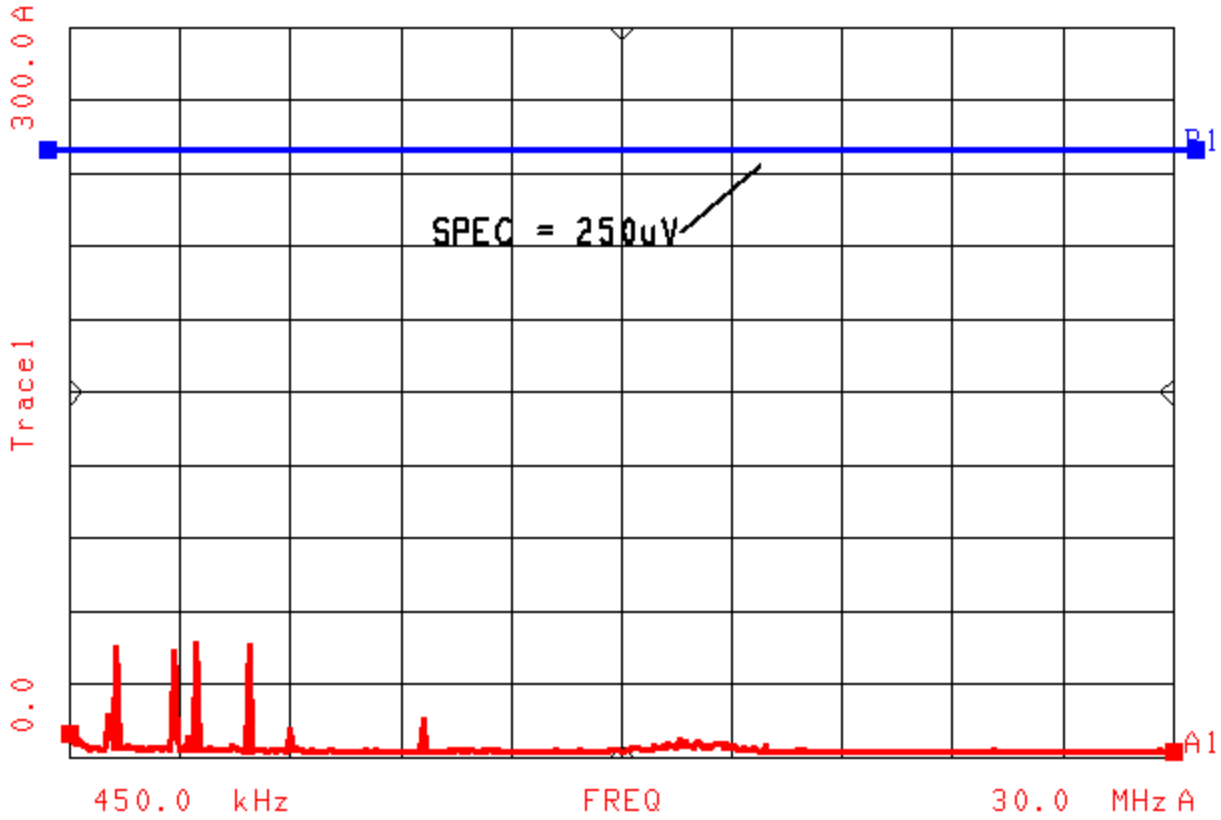
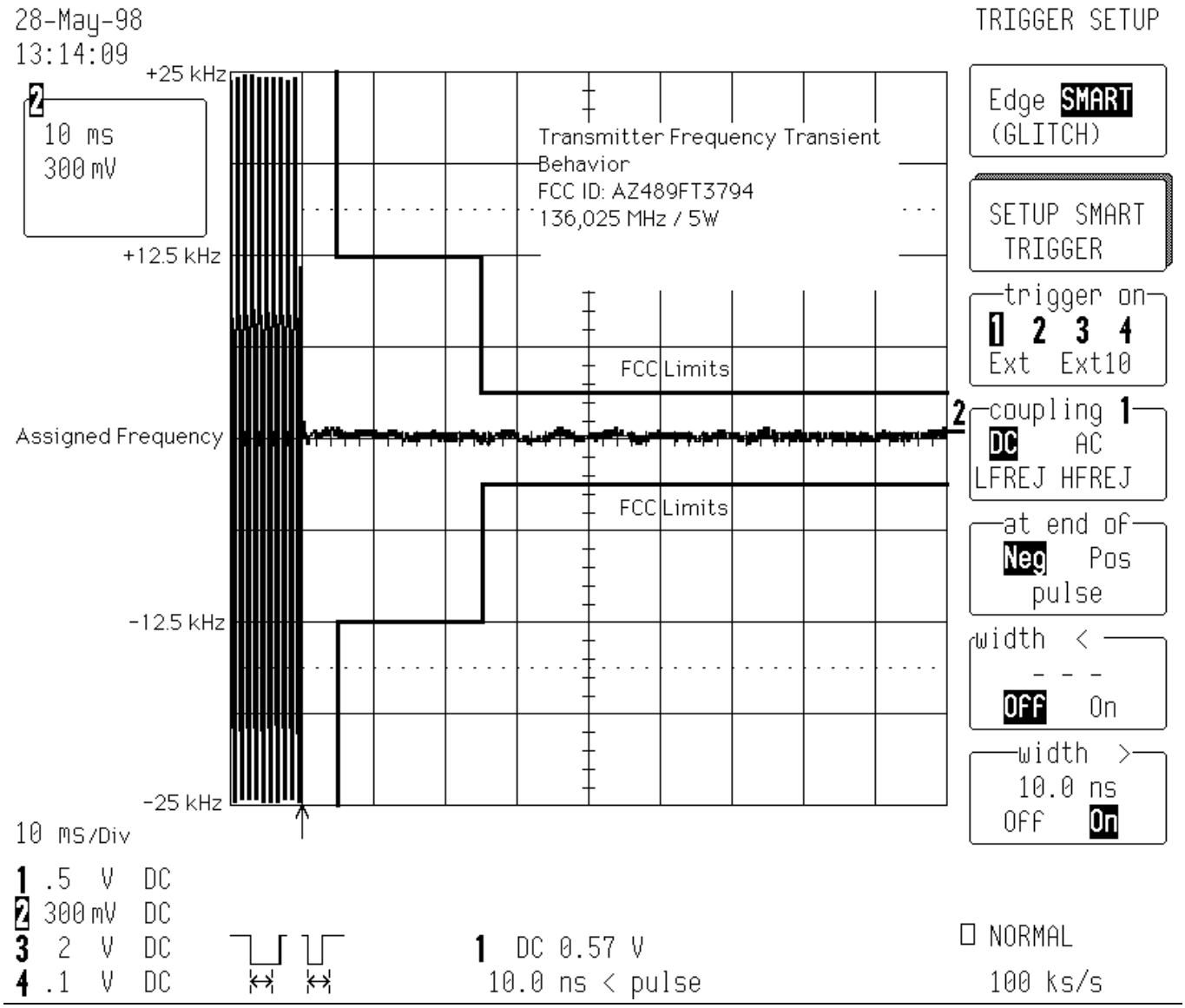


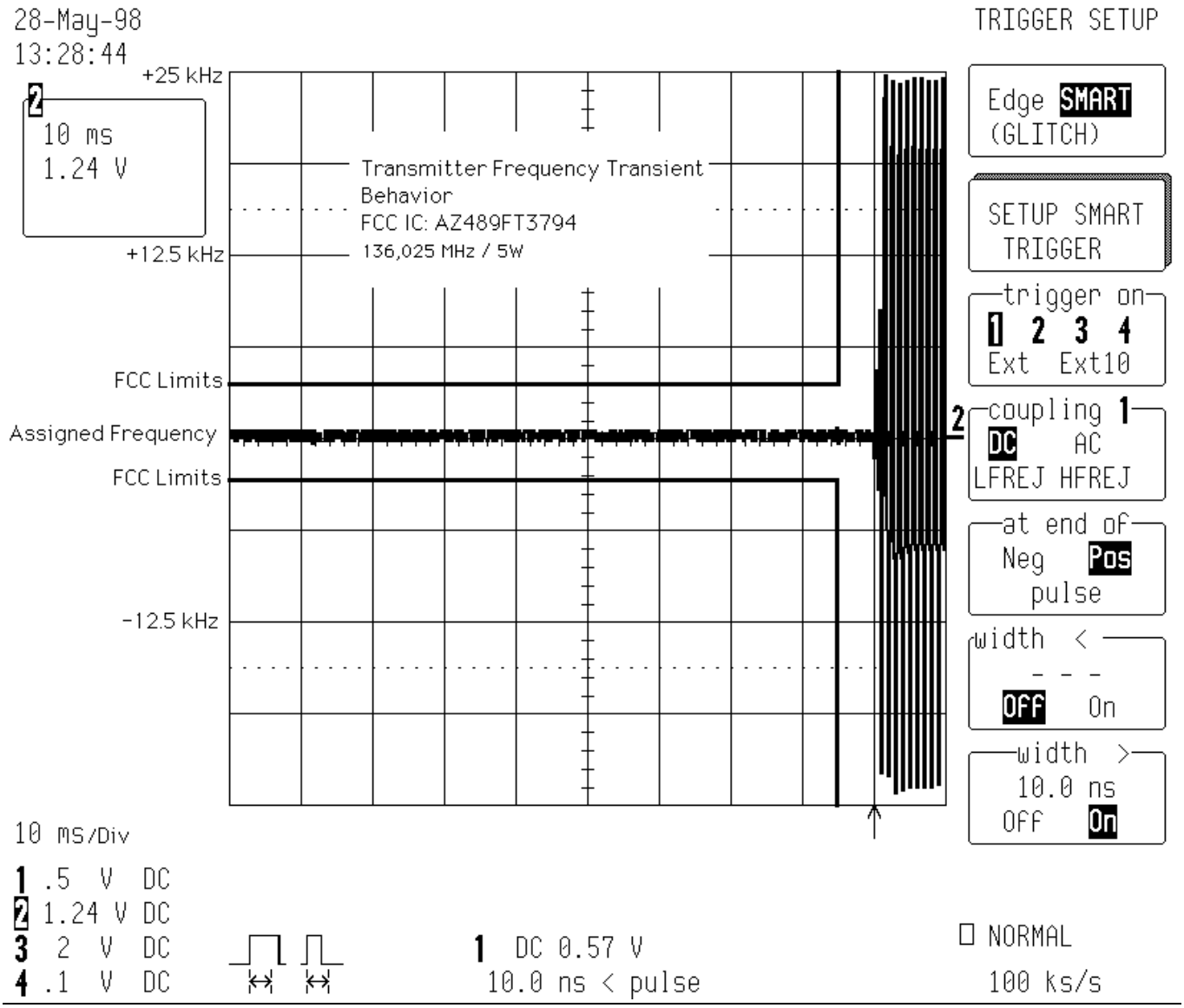
EXHIBIT 9I-1

TRANSIENT FREQUENCY BEHAVIOR



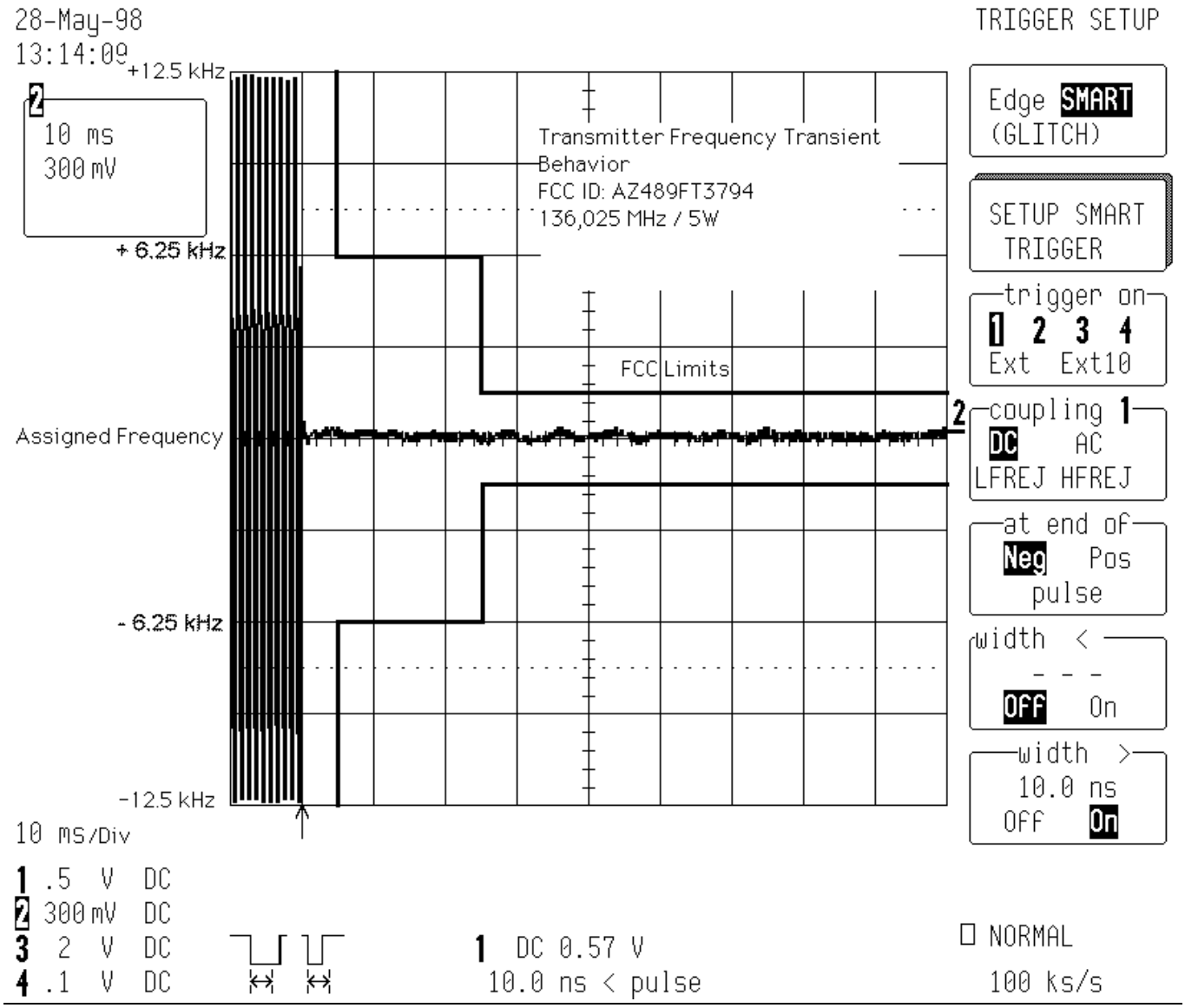
Measured values identical for 12.5 kHz and 25 kHz channel spacing

TRANSIENT FREQUENCY BEHAVIOR



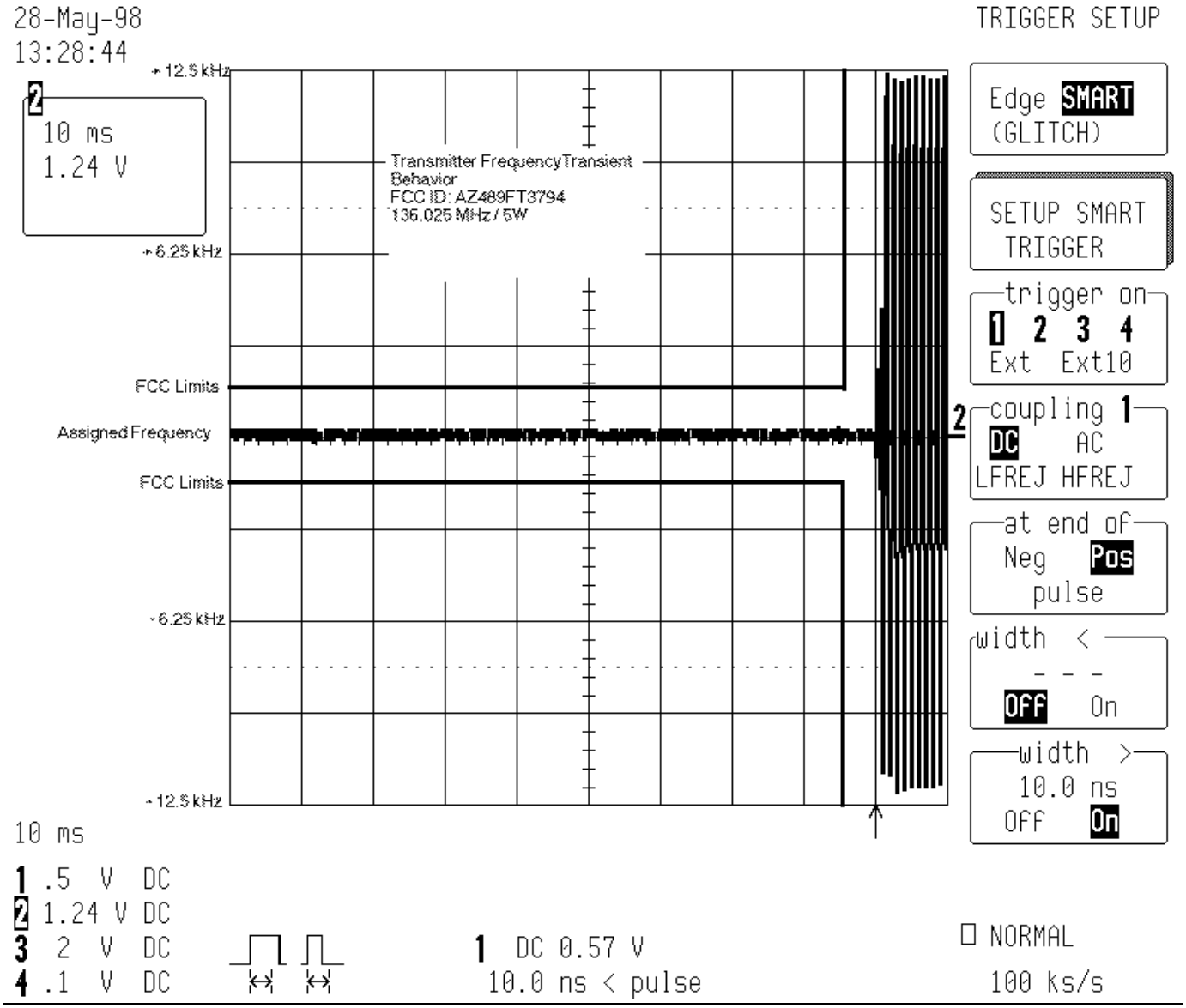
Measured values identical for 12,5 kHz and 25 kHz channel spacing

TRANSIENT FREQUENCY BEHAVIOR



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