

INDEX OF SUBMITTED MEASURED DATA

<u>MEASUREMENT</u>	<u>EXHIBIT</u>	<u>Page</u>	<u>Number of pages</u>
1. RF Output Power (conducted)	6A	2	1
2. Occupied Bandwidth	6B	3	9
3. Radiated Spurious Emissions	6C	12	6
4. Transmitter Conducted Spurious Emissions	6D	18	4

Note: Data was tested to show compliance to RSS119 and RSS210 as applicable.

Exhibit 6A**1. RF Output Power (conducted)**

The RF output power was measured with the indicated voltage and current applied into the final RF amplifying device. -- Pursuant 47 CFR 2.1046(a), 2.1033(c)(6), 2.1033(c)(7) and 2.1033(c)(8)

APX6000 VHF (Low Power Readings)

TIA RS-603, TX Output Power and TX DC Current (Nominal DC Voltage 7.5V, Primary Supply Voltage 7.5V, Temp 25°C)								
Freq. (MHz)	Radio#1		Radio#2		Radio#3		Radio#4	
	Output Power(W)	Current (A)	Output Power(W)	Current (A)	Output Power(W)	Current (A)	Output Power(W)	Current (A)
157.800	1.2	1.34						

APX6000 VHF (Nominal Power Readings)

TIA RS-603, TX Output Power and TX DC Current (Nominal DC Voltage 7.5V, Primary Supply Voltage 7.5V, Temp 25°C)								
Freq. (MHz)	Radio#1		Radio#2		Radio#3		Radio#4	
	Output Power(W)	Current (A)	Output Power(W)	Current (A)	Output Power(W)	Current (A)	Output Power(W)	Current (A)
157.800	6.28	2.02						

Exhibit 6B**2. Occupied Bandwidth** -- Pursuant 47 CFR 2.1049, 90.210**Standard Audio Modulation (12.5 kHz Channelization, Analog Voice):****Emission Designator 11K0F3E**

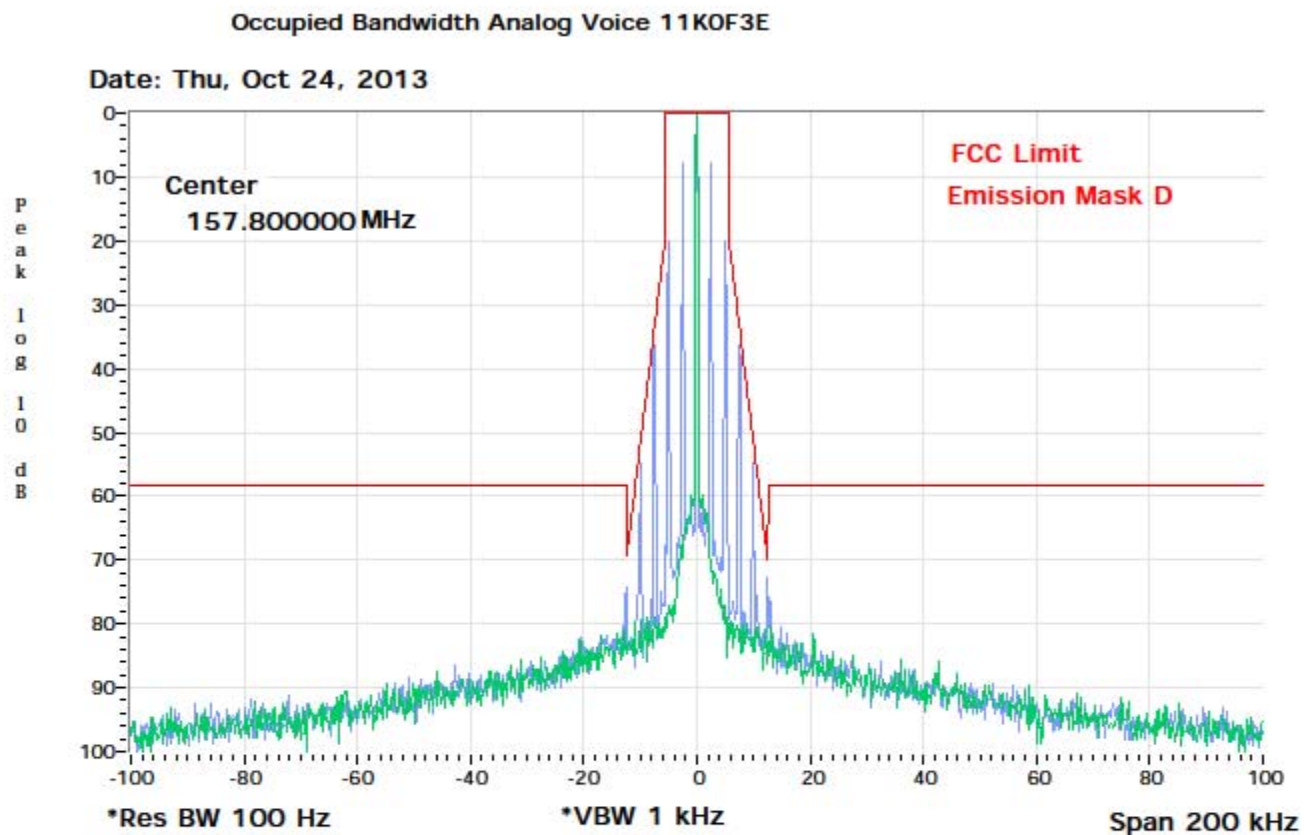
In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

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

F3E portion of the designator indicates voice.

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

Frequency = 157.8 MHz



Standard Audio Modulation (25 kHz Channelization, Analog Voice):**Emission Designator 16K0F3E (Rule Part 80)**

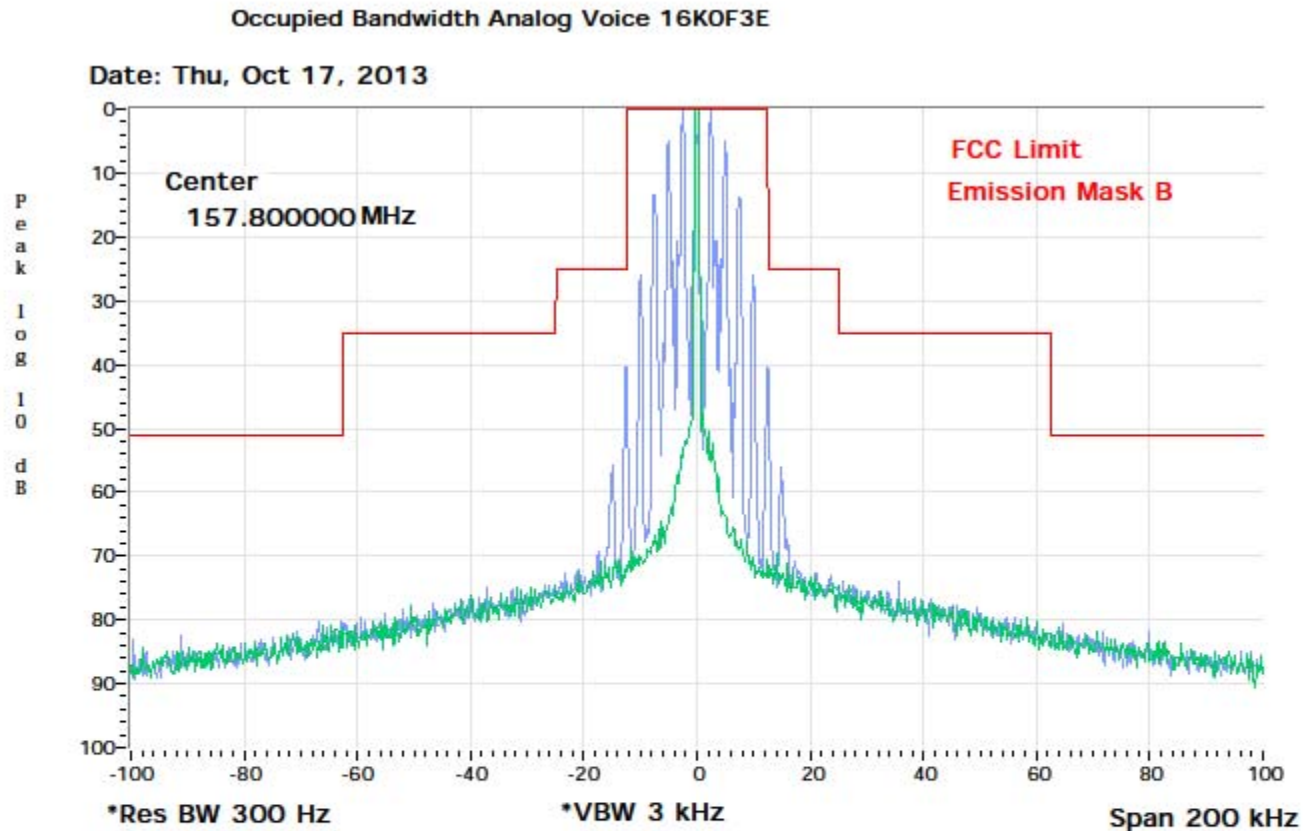
In this case, the maximum modulating frequency is 3.0 kHz with a 5.0 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 5.0 \text{ kHz}) = 16 \text{ kHz} \Rightarrow 16K0$$

F3E portion of the designator indicates voice.

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

Frequency = 157.8 MHz



Digital APCO Mode (12.5 kHz Channelization, Digital Voice):**Emission Designator 8K10F1E**

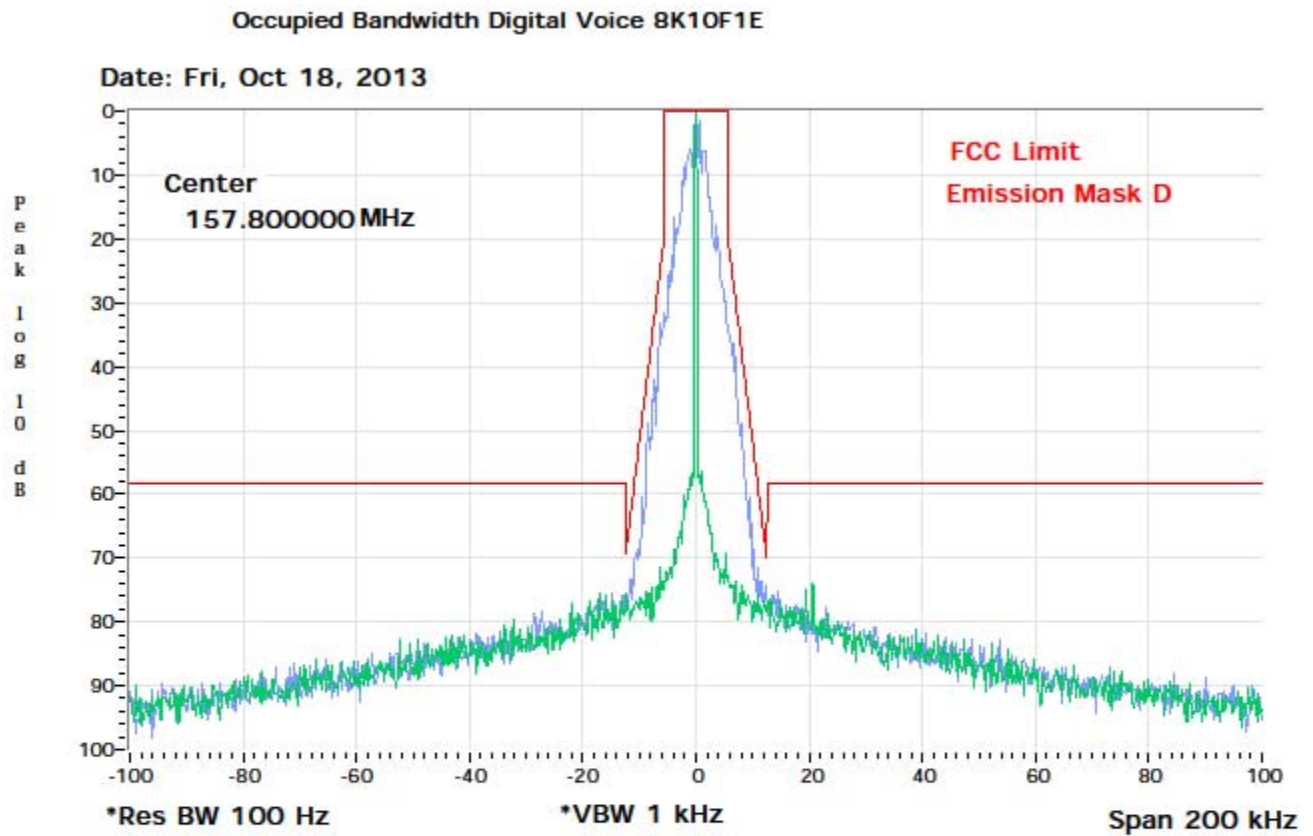
The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz.

Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 12.5 kHz channelization digital voice is 8K10F1E.

Frequency = 157.8 MHz



Digital APCO Mode (12.5 kHz Channelization, Digital Voice with encryption):**Emission Designator 8K10F1E**

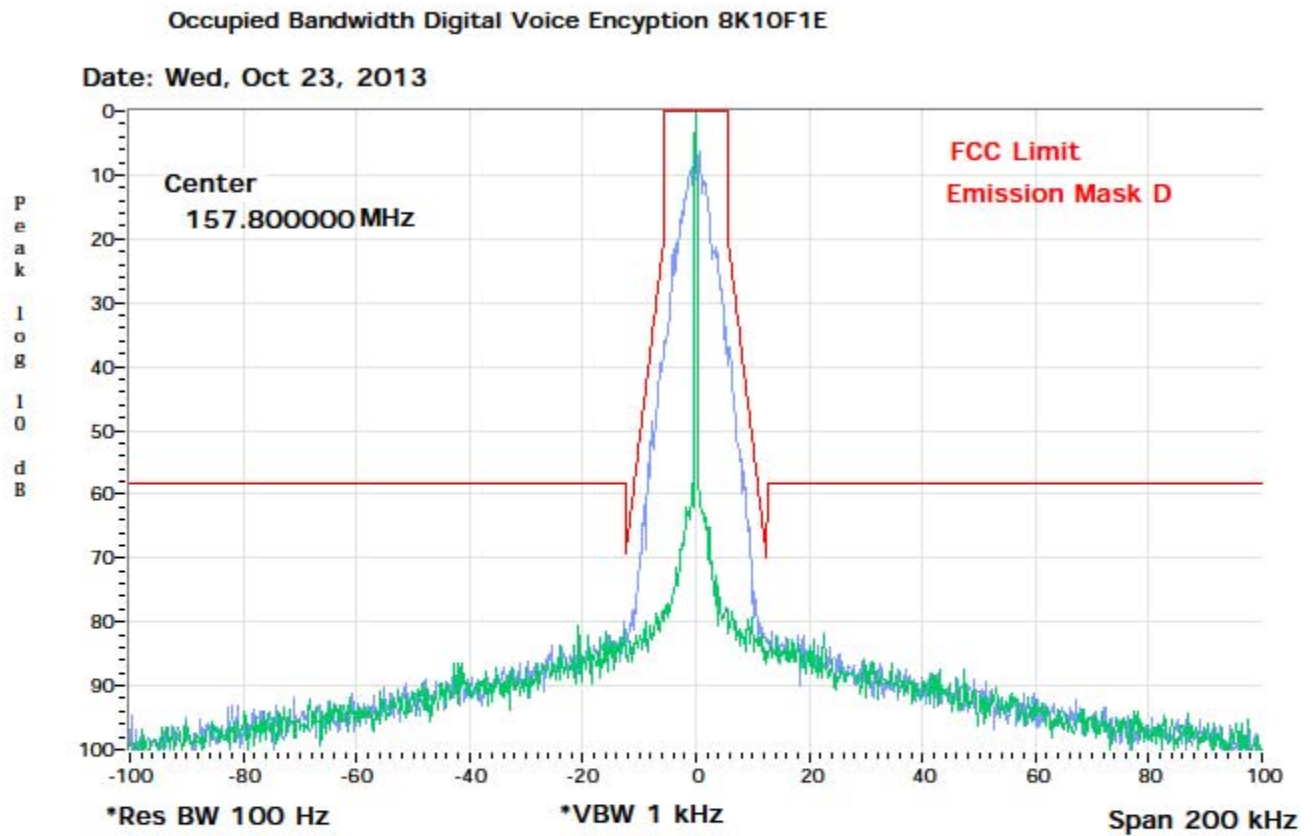
The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz.

Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 12.5 kHz channelization digital voice is 8K10F1E.

Frequency = 157.8 MHz



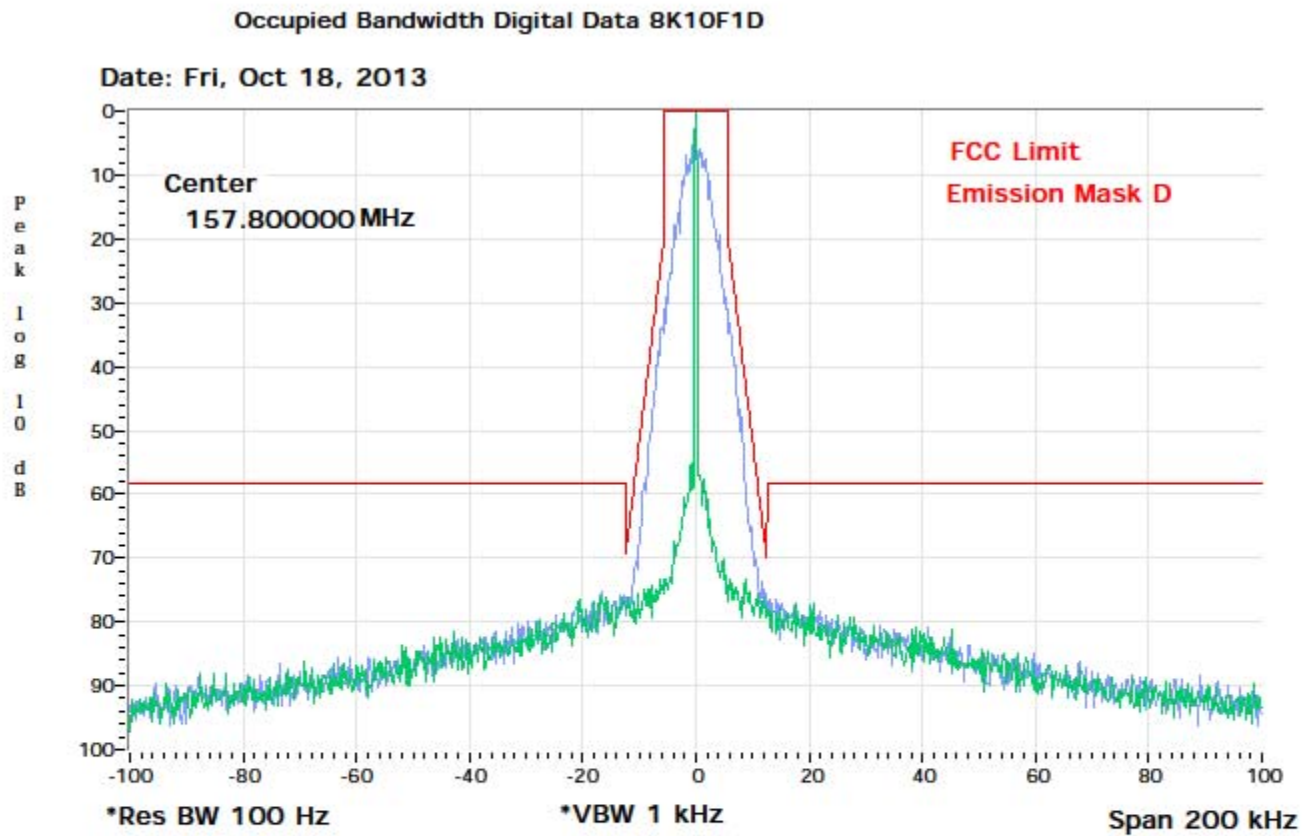
**Digital APCO Mode (12.5 kHz Channelization, Digital Data):
Emission Designator 8K10F1D**

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1D portion of the designator indicates digital data.

Therefore, the entire designator for 12.5 kHz channelization digital voice is 8K10F1D.

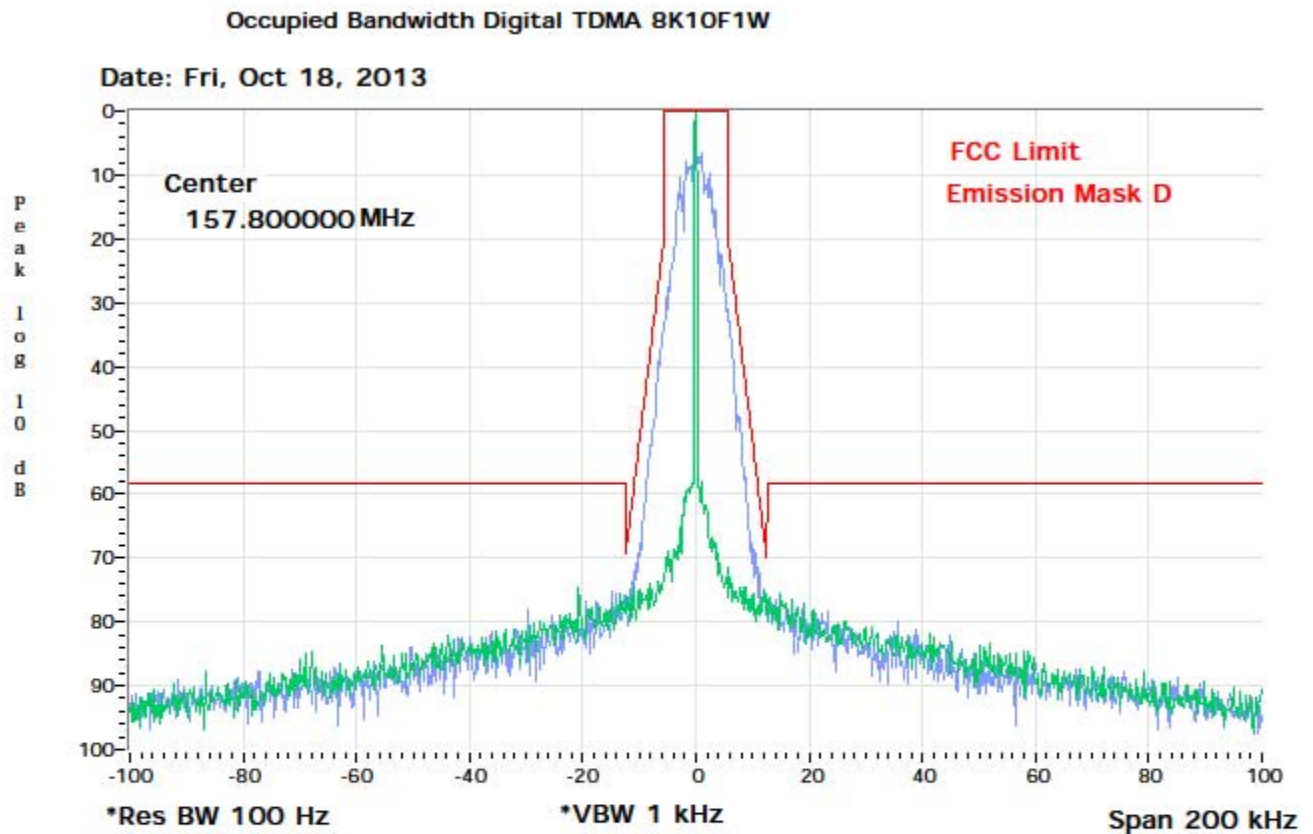
Frequency = 157.8 MHz



**Digital APCO TDMA Mode (12.5 kHz Channelization, Digital TDMA 6.25 channelization equivalent):
Emission Designator 8K10F1W**

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(e). F1W portion of the designator indicates digital TDMA. Therefore, the entire designator for 12.5 kHz channelization digital TDMA is 8K10F1W.

Frequency = 157.8 MHz



**Digital Modulation (20 kHz Channelization, Analog Voice with encryption):
Emission Designator 20K0F1E (Rule Part 80)**

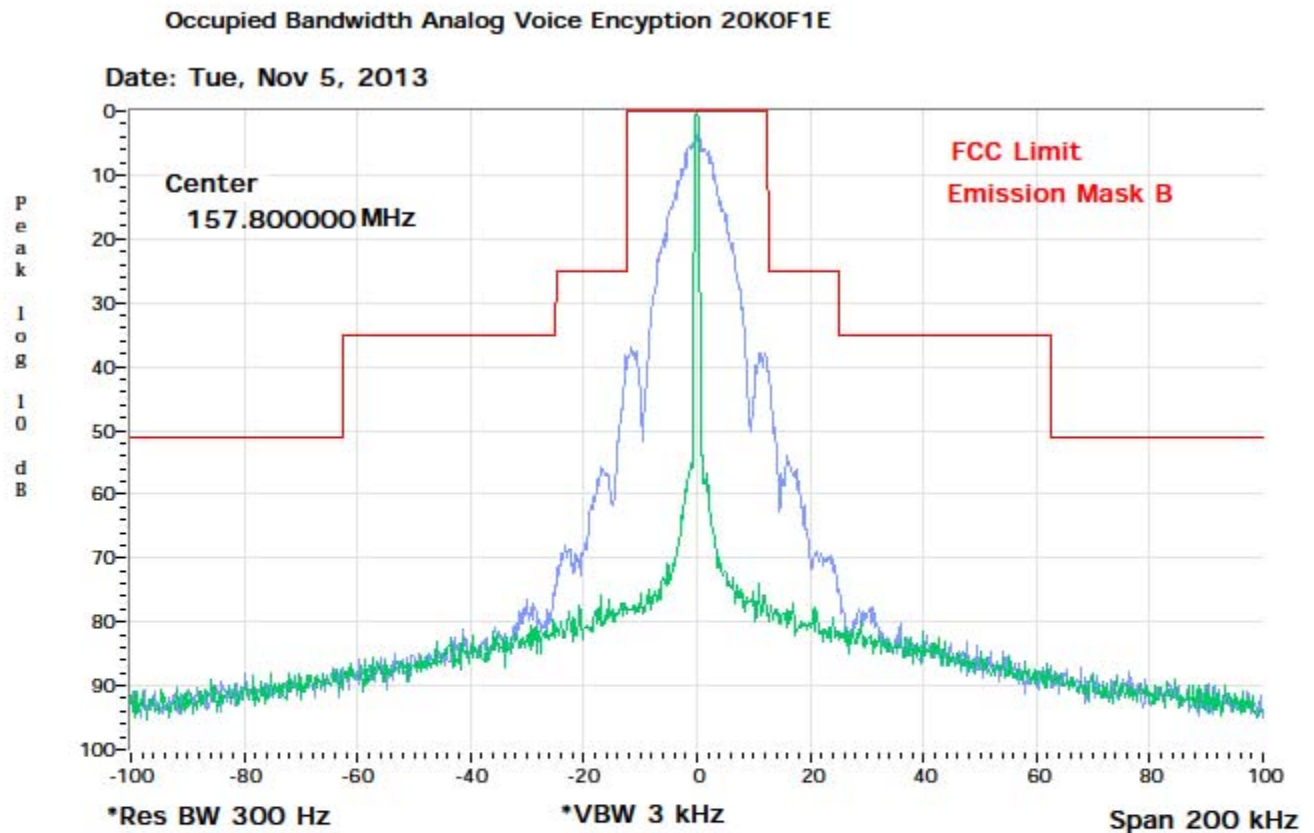
In this case, the maximum modulating frequency is 6 kHz with a 4 kHz deviation.

$BW = 2(M+D) = 2*(6 \text{ kHz} + 4 \text{ kHz}) = 20 \text{ kHz} \Rightarrow 20K0$

F1E portion of the designator indicates digital voice.

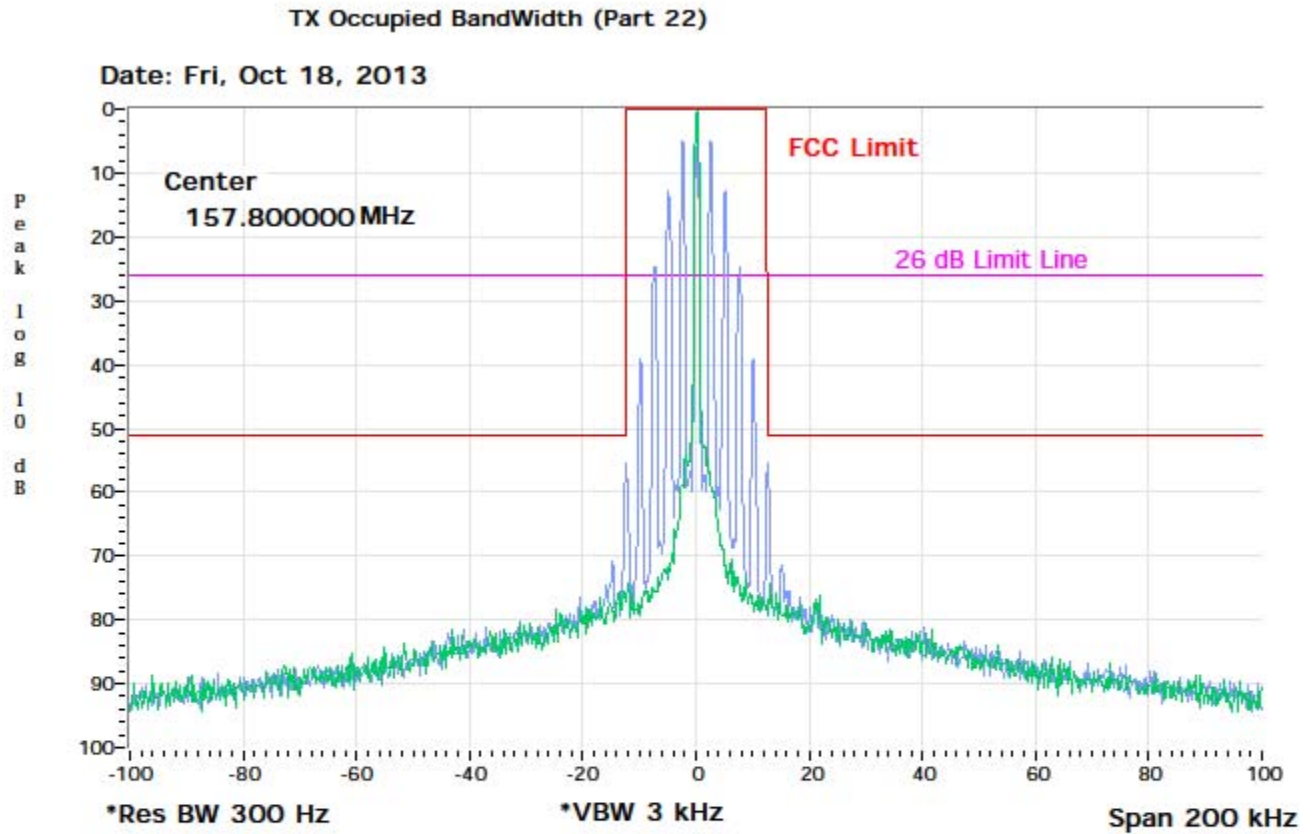
Therefore, the entire designator for 20 kHz channelization analog voice is 20K0F1E.

Frequency = 157.8 MHz



**Standard Audio Modulation (20 kHz Channelization, Analog Voice):
Emission Designator 20K0F1E (Rule Part 22)**

Frequency = 157.8 MHz

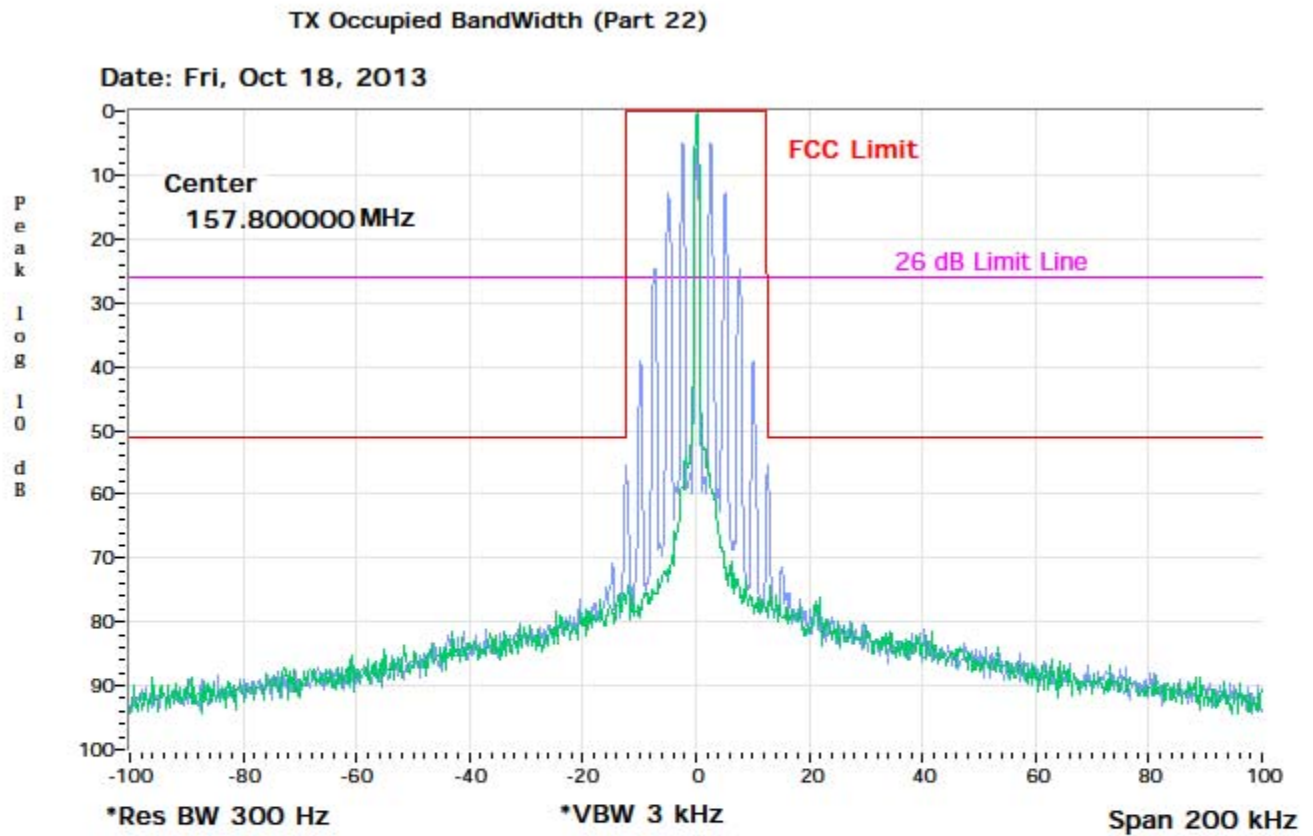


Res BW	Max Amplitude
30KHz	-68dBc

* Note: Compliance to section 22.359 (b), for frequency below and above ± 70 kHz, peak measurements are corrected by 20 dB to account for resolution bandwidth of 30 kHz.

**Standard Audio Modulation (20 kHz Channelization, Analog Voice):
Emission Designator 16K0F3E (Rule Part 22)**

Frequency = 157.8 MHz



Res BW	Max Amplitude
30KHz	-68dBc

* Note: Compliance to section 22.359 (b), for frequency below and above ± 70 kHz, peak measurements are corrected by 20 dB to account for resolution bandwidth of 30 kHz.

Exhibit 6C

3. Transmitter Radiated Spurious Emissions

Equipment under test: H98KGH9PW7AN S/N: CAI1320840

Measurement Criteria **Compliance Testing**

Radiated Emissions FCC Part 15 Class B

Radiated Emissions FCC Part 90

Results Summary: EUT meets the test requirements

Test Configurations: Radiated Spurious Emissions TX Frequencies: 136.0125MHz, 157.8MHz, and 173.9875MHz with 12.5kHz channel spacing at high power

Radiated Spurious Emissions TX Frequencies: 157.8MHz with 20kHz channel spacing at high power

Radiated Spurious Emissions TX Frequencies: 136.0125MHz, 157.8MHz, and 173.9875MHz with 25kHz channel spacing at high power

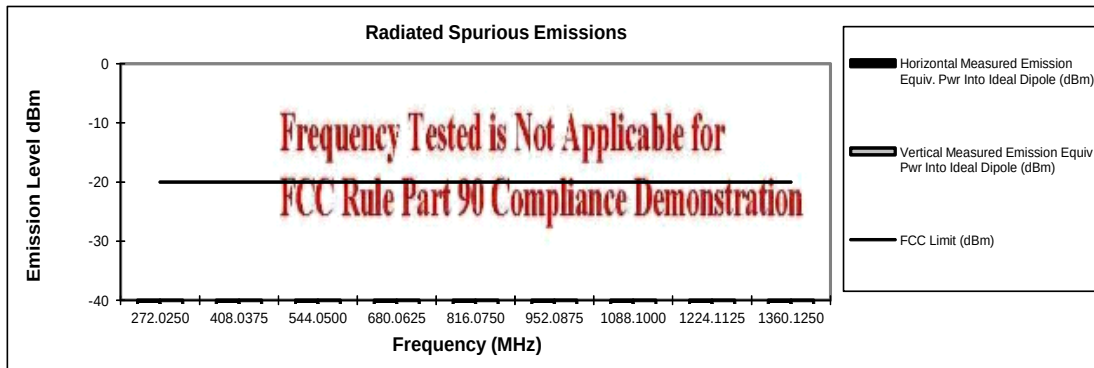
Transmit Radiated Spurious Emissions: H98KGH9PW7AN

Tx Power: 6.5 Watts

136.0125 MHz

Channel Spacing 12.5kHz | S/N CAI1320840

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
272.0250	-20	*	*
408.0375	-20	*	*
544.0500	-20	*	*
680.0625	-20	*	*
816.0750	-20	*	*
952.0875	-20	*	*
1088.1000	-20	*	*
1224.1125	-20	*	*
1360.1250	-20	*	*



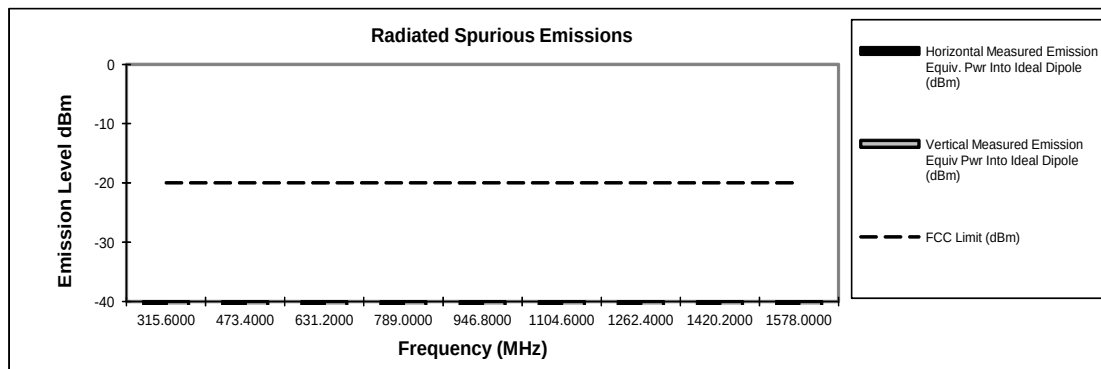
Transmit Radiated Spurious Emissions: H98KGH9PW7AN

Tx Power: 6.5 Watts

157.8 MHz

Channel Spacing 12.5kHz | S/N CAI1320840

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
315.6000	-20	*	*
473.4000	-20	*	*
631.2000	-20	*	*
789.0000	-20	*	*
946.8000	-20	*	*
1104.6000	-20	*	*
1262.4000	-20	*	*
1420.2000	-20	*	*
1578.0000	-20	*	*



* Indicates the spurious emission could not be detected due to noise limitations or ambients.

Pursuant to CFR 47 Part 2.1057(c), emissions attenuated more than 20 dB below the permissible limit are not reported.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero

October 8, 2013

FCC Registration: 91932 / Industry Canada: IC109U-1

Motorola Solutions

FCC ID: AZ489FT3829

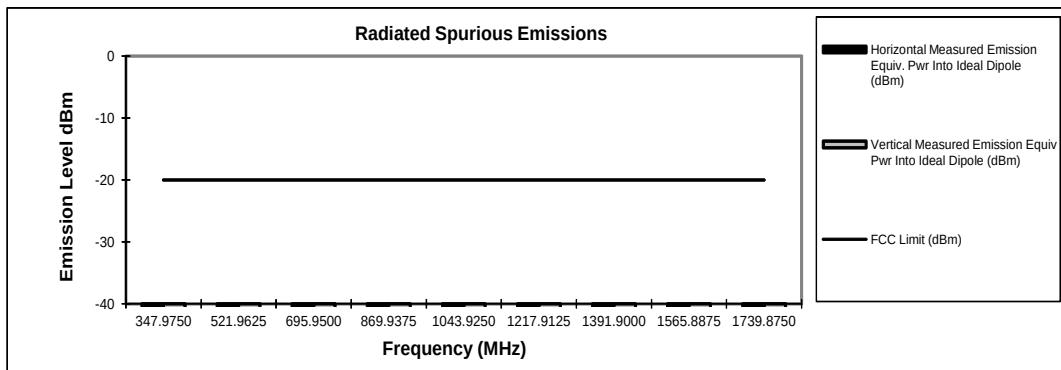
Transmit Radiated Spurious Emissions: H98KGH9PW7AN

Tx Power: 6.5 Watts

173.9875 MHz

Channel Spacing 12.5kHz | S/N CAI1320840

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
347.9750	-20	*	*
521.9625	-20	*	*
695.9500	-20	*	*
869.9375	-20	*	*
1043.9250	-20	*	*
1217.9125	-20	*	*
1391.9000	-20	*	*
1565.8875	-20	*	*
1739.8750	-20	*	*



* Indicates the spurious emission could not be detected due to noise limitations or ambients.

Pursuant to CFR 47 Part 2.1057(c), emissions attenuated more than 20 dB below the permissible limit are not reported.

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Motorola Solutions

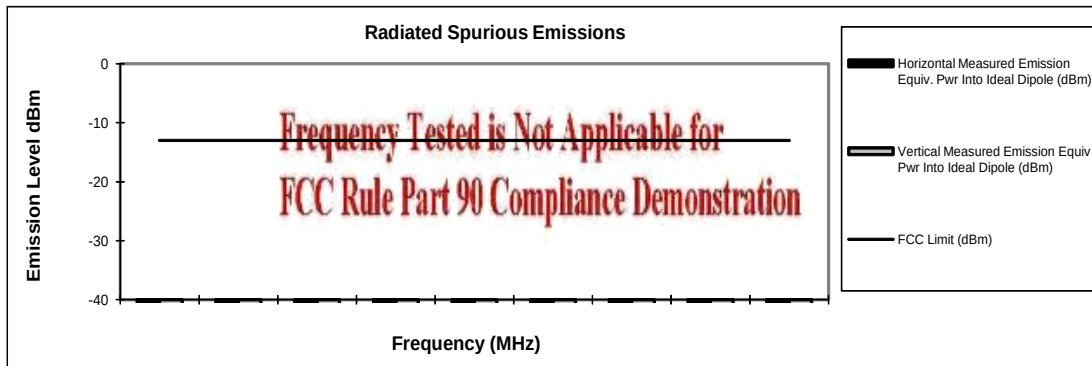
Transmit Radiated Spurious Emissions: H98KGH9PW7AN

Tx Power: 6.5 Watts

MHz

Channel Spacing 20kHz | S/N CAI1320840

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
	-13		
	-13		
	-13		
	-13		
	-13		
	-13		
	-13		
	-13		
	-13		



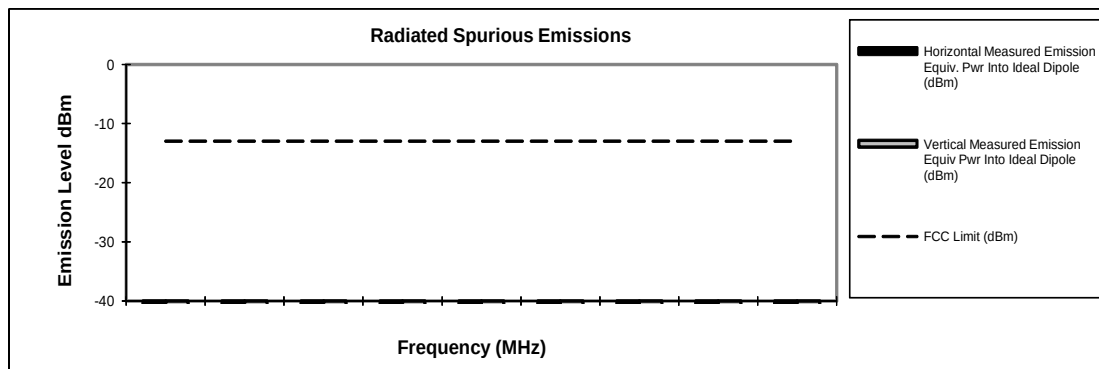
Transmit Radiated Spurious Emissions: H98KGH9PW7AN

Tx Power: 6.5 Watts

MHz

Channel Spacing 20kHz | S/N CAI1320840

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
	-13		
	-13		
	-13		
	-13		
	-13		
	-13		
	-13		
	-13		
	-13		



* Indicates the spurious emission could not be detected due to noise limitations or ambients.

Pursuant to CFR 47 Part 2.1057(c), emissions attenuated more than 20 dB below the permissible limit are not reported.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Motorola Solutions

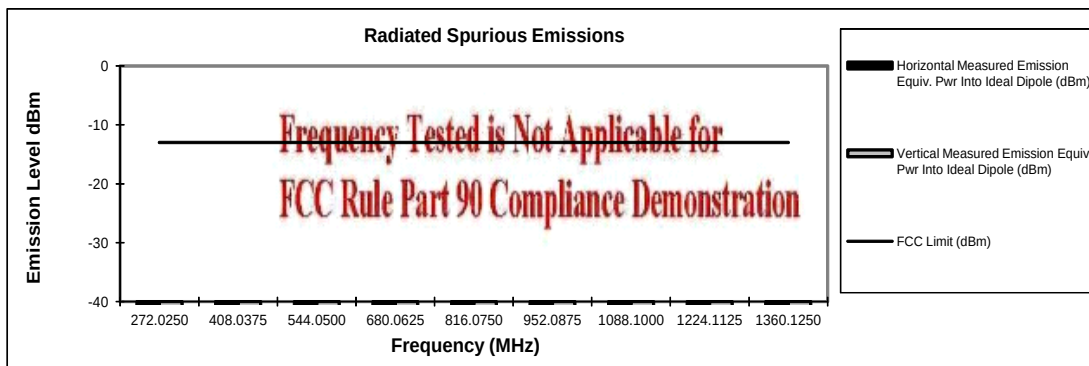
Transmit Radiated Spurious Emissions: H98KGH9PW7AN

Tx Power: 6.5 Watts

136.0125 MHz

Channel Spacing 25kHz | S/N CA1320840

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
272.0250	-13	*	*
408.0375	-13	*	*
544.0500	-13	*	*
680.0625	-13	*	*
816.0750	-13	*	*
952.0875	-13	*	*
1088.1000	-13	*	*
1224.1125	-13	*	*
1360.1250	-13	*	*



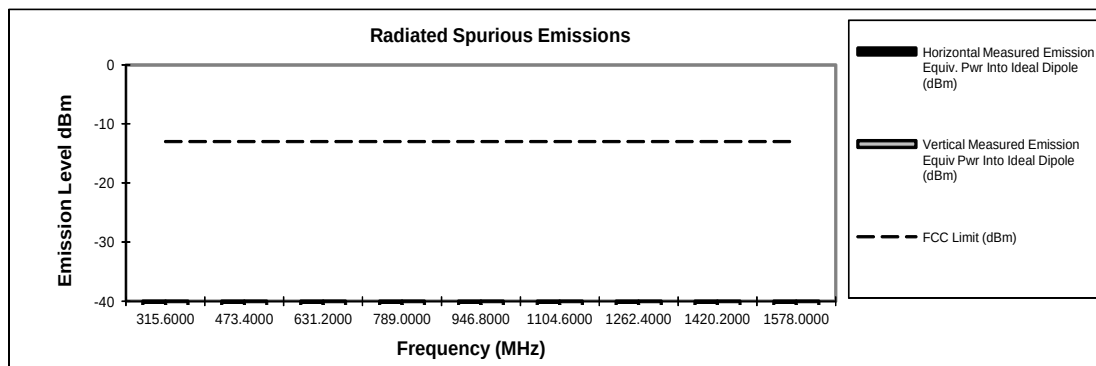
Transmit Radiated Spurious Emissions: H98KGH9PW7AN

Tx Power: 6.5 Watts

157.8 MHz

Channel Spacing 25kHz | S/N CA1320840

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
315.6000	-13	*	*
473.4000	-13	*	*
631.2000	-13	*	*
789.0000	-13	*	*
946.8000	-13	*	*
1104.6000	-13	*	*
1262.4000	-13	*	*
1420.2000	-13	*	*
1578.0000	-13	*	*



* Indicates the spurious emission could not be detected due to noise limitations or ambients.

Pursuant to CFR 47 Part 2.1057(c), emissions attenuated more than 20 dB below the permissible limit are not reported.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

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Motorola Solutions

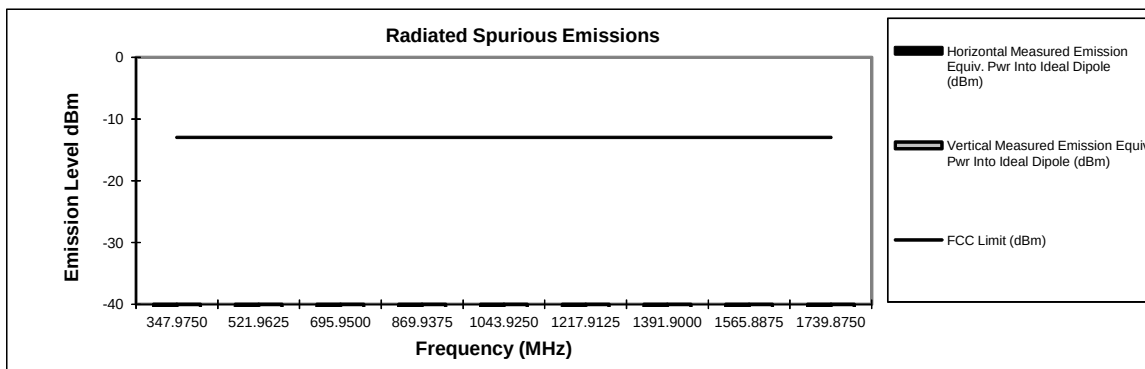
Transmit Radiated Spurious Emissions: H98KGH9PW7AN

Tx Power: 6.5 Watts

173.9875 MHz

Channel Spacing 25kHz | S/N CAI1320840

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
347.9750	-13	*	*
521.9625	-13	*	*
695.9500	-13	*	*
869.9375	-13	*	*
1043.9250	-13	*	*
1217.9125	-13	*	*
1391.9000	-13	*	*
1565.8875	-13	*	*
1739.8750	-13	*	*



* Indicates the spurious emission could not be detected due to noise limitations or ambients.

Pursuant to CFR 47 Part 2.1057(c), emissions attenuated more than 20 dB below the permissible limit are not reported.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero

October 8, 2013

FCC Registration: 91932 / Industry Canada: IC109U-1

Exhibit 6D

4. Transmitter Conducted Spurious Emissions

Spurious response was measured at 136.0125MHz, 157.800MHz, 173.9875MHz, and 157.8MHz (20 KHz channel spacing). Conducted emissions were measured to 2 GHz. All spurious and harmonic emissions are well below the FCC limit.

