

## EXHIBIT 6

### INDEX OF SUBMITTED MEASURED DATA

This exhibit contains the measured data for this equipment as follows:

#### EXHIBIT 6A – RF Power Output

#### EXHIBIT 6B – Audio Frequency Response

- 6B-1 –799.9875 MHz, 12.5 kHz Channel Spacing
- 6B-2 –859.9875 MHz, 12.5 kHz Channel Spacing
- 6B-3 –799.9875 MHz, 25 kHz Channel Spacing (IC Only)
- 6B-4 –859.9875 MHz, 25 kHz Channel Spacing

#### EXHIBIT 6C – Audio Low Pass Filter Response

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- 6C-4 –859.9875 MHz, 25 kHz Channel Spacing

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- 6D-3 –799.9875 MHz, 25 kHz Channel Spacing (IC Only)
- 6D-4 –859.9875 MHz, 25 kHz Channel Spacing

#### EXHIBIT 6E – Occupied Bandwidth

- 6E-1 - 799.0125 MHz, Channel Spacing: 12.5 kHz, Analog Voice: 11K0F3E Mask B
- 6E-2 - 859.9875 MHz, Channel Spacing: 12.5 kHz, Analog Voice: 11K0F3E Mask B, D
- 6E-3 - 799.0125 MHz, Channel Spacing: 25 kHz, Analog Voice: 16K0F3E Mask B (IC Only)
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- 6E-8 - 799.0125MHz, Channel Spacing: 12.5 kHz, Digital Data: 8K10F1D Mask B
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- 6E-11 - 799.0125MHz, Channel Spacing: 12.5 kHz, Digital TDMA: 8K10F1W Mask B
- 6E-12 - 859.9875MHz, Channel Spacing: 12.5 kHz, Digital TDMA: 8K10F1W Mask B, D
- 6E-13 - 859.9875MHz, Channel Spacing: 12.5 kHz, Digital TDMA: 8K10F1W Mask H, D

#### EXHIBIT 6F – Adjacent Channel Power

- 6F-1 - 769.0125MHz, Analog 12.5 kHz Channel Spacing
- 6F-2 - 769.0125MHz, Analog 25 kHz Channel Spacing (IC Only)
- 6F-3 - 769.0125MHz, APCO 12.5 kHz Channel Spacing, Digital Data
- 6F-4 - 769.0125MHz, APCO 12.5 kHz Channel Spacing, Digital Voice
- 6F-5 - 769.0125MHz, APCO 12.5 kHz Channel Spacing, Digital TDMA
- 6F-6 - 799.0125MHz, Analog 12.5 kHz Channel Spacing
- 6F-7 - 799.0125MHz, Analog 25 kHz Channel Spacing (IC Only)
- 6F-8 - 799.0125MHz, APCO 12.5 kHz Channel Spacing, Digital Data
- 6F-9 - 799.0125MHz, APCO 12.5 kHz Channel Spacing, Digital Voice
- 6F-10 - 799.0125MHz, APCO 12.5 kHz Channel Spacing, Digital TDMA

**EXHIBIT 6G – Transmit Radiated Spurious Emissions**

- 6G-1 - 2.99W 768.0125 MHz, 12.5 kHz Channel Spacing
- 6G-2 - 2.99W 774.9875 MHz, 12.5 kHz Channel Spacing
- 6G-3 - 2.99W 798.9875 MHz, 12.5 kHz Channel Spacing
- 6G-4 – 2.99W 804.9875 MHz, 12.5 kHz Channel Spacing
- 6G-5 - 3.60W 806.0125 MHz, 12.5 kHz Channel Spacing
- 6G-6 - 3.60W 815.0125 MHz 12.5 kHz Channel Spacing
- 6G-7 - 3.60W 823.9875 MHz, 12.5 kHz Channel Spacing
- 6G-8 - 3.60W 851.0125 MHz, 12.5 kHz Channel Spacing
- 6G-9 - 3.60W 859.9875 MHz, 12.5 kHz Channel Spacing
- 6G-10 - 3.60W 868.9875 MHz, 12.5 kHz Channel Spacing
- 6G-11 - 2.99W 768.0125 MHz, 25 kHz Channel Spacing (IC Only)
- 6G-12 - 2.99W 774.9875 MHz, 25 kHz Channel Spacing (IC Only)
- 6G-13 - 2.99W 798.9875 MHz, 25 kHz Channel Spacing (IC Only)
- 6G-14 – 2.99W 804.9875 MHz, 25 kHz Channel Spacing
- 6G-15 - 3.60W 806.0125 MHz, 25 kHz Channel Spacing
- 6G-16 - 3.60W 815.0125 MHz 25 kHz Channel Spacing
- 6G-17 - 3.60W 823.9875 MHz, 25 kHz Channel Spacing
- 6G-18 - 3.60W 851.0125 MHz, 25 kHz Channel Spacing
- 6G-19 - 3.60W 859.9875 MHz, 25 kHz Channel Spacing
- 6G-20 - 3.60W 868.9875 MHz, 25 kHz Channel Spacing

**EXHIBIT 6H - 1559-1610MHz Radiated Emissions (GNSS)**

- 6H-1 – Max Power 805.0000 MHz, 12.5 kHz Channel Spacing
- 6H-2 – Max Power 805.0000 MHz, 25 kHz Channel Spacing

**EXHIBIT 6I - Conducted Spurious Emissions**

- 6I-1 - 2.99W, 769.0125 MHz, 12.5 kHz Channel Spacing
- 6I-2 - 2.99W, 774.9875 MHz, 12.5 kHz Channel Spacing
- 6I-3 - 2.99W, 799.0125 MHz, 12.5 kHz Channel Spacing
- 6I-4 – 2.99W, 804.9875 MHz, 12.5 kHz Channel Spacing
- 6I-5 - 3.6W, 806.0125 MHz, 12.5 kHz Channel Spacing
- 6I-6 - 3.6W, 815.0125 MHz 12.5 kHz Channel Spacing
- 6I-7 - 3.6W, 823.9875 MHz, 12.5 kHz Channel Spacing
- 6I-8 - 3.6W, 851.0125 MHz, 12.5 kHz Channel Spacing
- 6I-9 - 3.6W, 859.9875 MHz, 12.5 kHz Channel Spacing
- 6I-10 - 3.6W, 868.9875 MHz, 12.5 kHz Channel Spacing

**EXHIBIT 6K – Frequency Stability (Volt/Temp)**

- 6K-1 – 799.0125 MHz vs. Supply Voltage
- 6K-2 – 859.9875 MHz vs. Supply Voltage
- 6K-3 – 799.0125 MHz vs. Temperature
- 6K-4 – 859.9875 MHz vs. Temperature

\*\* Please note that the above data were taken following the procedures and limits outlined in TIA 603-D, TIA 102-CAAB and RSS 119 during the month of February 2014. See Table 2 in Ex07\_test procedures

Radio model tested: H84UCH9PW7AN (MUF1647)

**Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 90**

**EXHIBIT 6A**  
**RF Conducted Output Power:**

**Frequency= 769.0125 MHz:**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.99 Amps
Output RF power	2.99 Watts
DC Voltage	7.50 Volts
DC Current	1.61 Amps

**Frequency = 774.9875 MHz:**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	1.01 Amps
Output RF power	2.99 Watts
DC Voltage	7.50 Volts
DC Current	1.58 Amps

**Frequency = 799.0125 MHz:**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.97 Amps
Output RF power	2.99 Watts
DC Voltage	7.50 Volts
DC Current	1.53 Amps

**Frequency = 804.9875 MHz:**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.97 Amps
Output RF power	2.99 Watts
DC Voltage	7.50 Volts
DC Current	1.53 Amps

**Frequency = 806.0125 MHz:**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.96 Amps
Output RF power	3.60 Watts
DC Voltage	7.50 Volts
DC Current	1.64 Amps

**Frequency = 815.0125 MHz:**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.96 Amps
Output RF power	3.60 Watts
DC Voltage	7.50 Volts
DC Current	1.66 Amps

**Frequency = 823.9875 MHz:**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.96 Amps
Output RF power	3.60 Watts
DC Voltage	7.50 Volts
DC Current	1.66 Amps

**Frequency = 851.0125 MHz:**

Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.95 Amps
Output RF power	3.60 Watts
DC Voltage	7.50 Volts
DC Current	1.64 Amps

**Frequency = 859.9875 MHz:**

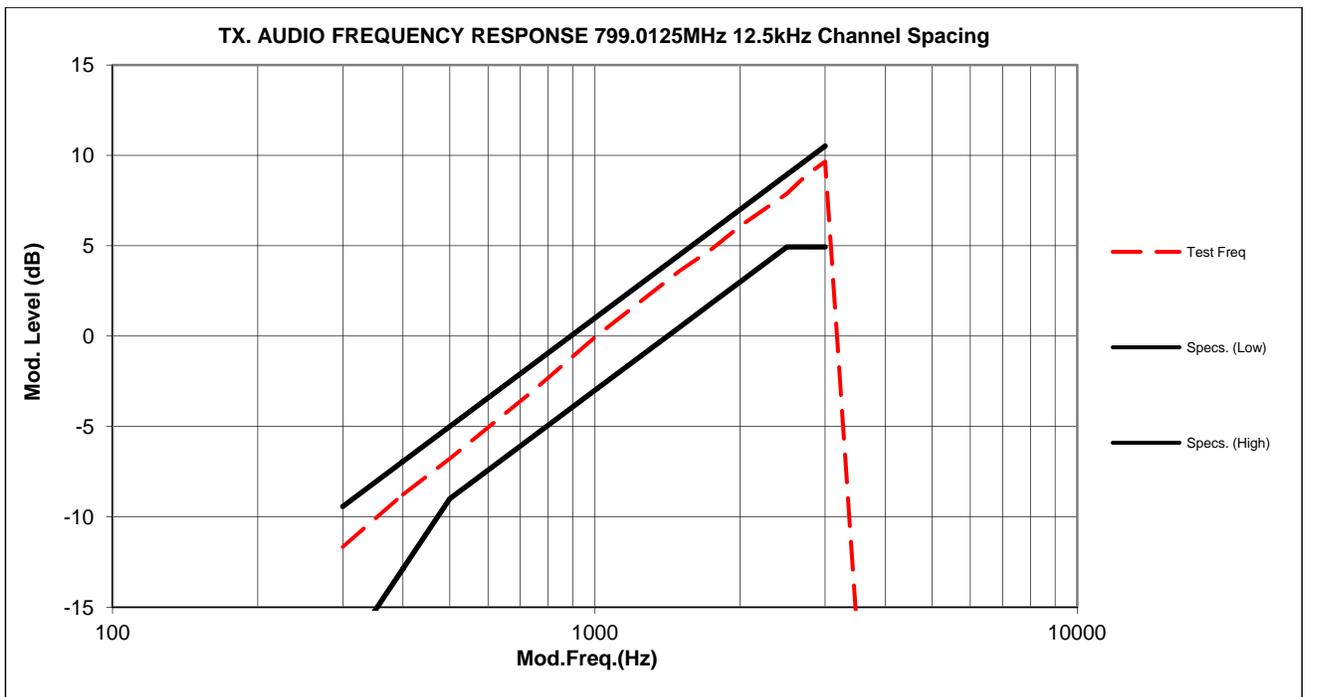
Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.96 Amps
Output RF power	3.60 Watts
DC Voltage	7.50 Volts
DC Current	1.61 Amps

**Frequency = 868.9875 MHz:**

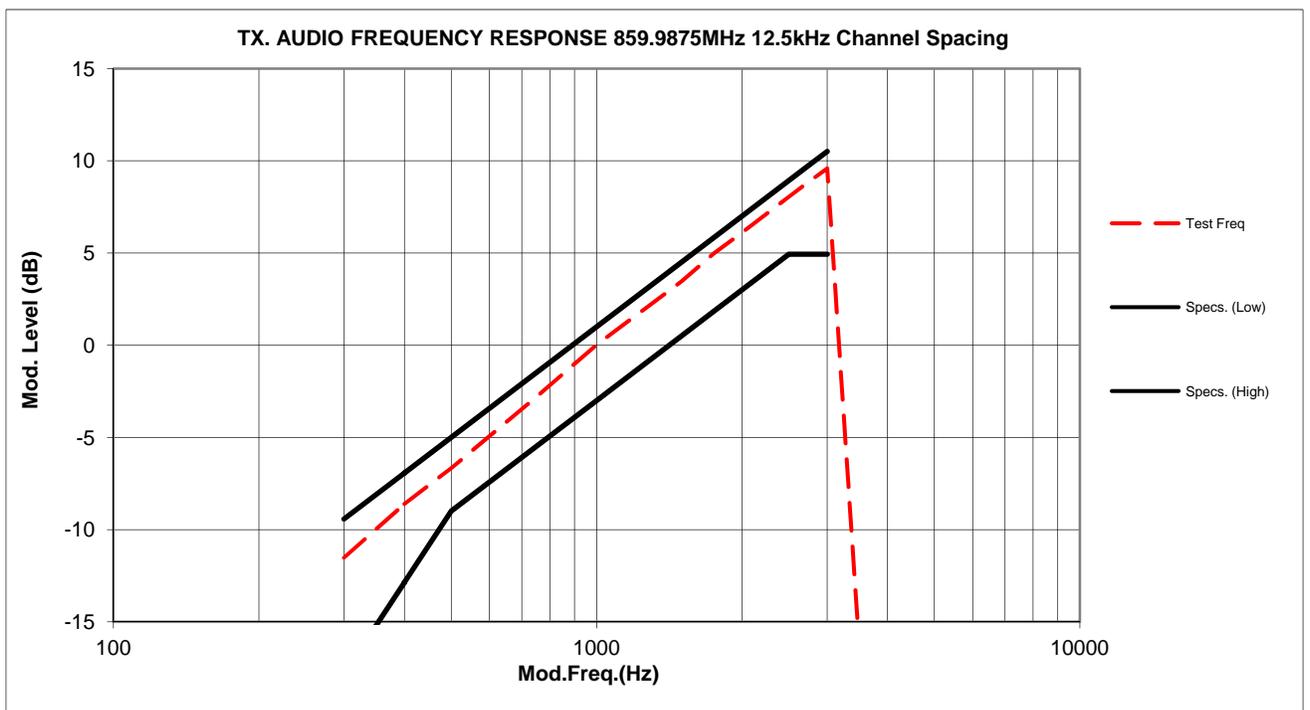
Output RF power	1.00 Watts
DC Voltage	7.50 Volts
DC Current	0.92 Amps
Output RF power	3.60 Watts
DC Voltage	7.50 Volts
DC Current	1.58 Amps

**EXHIBIT 6B**

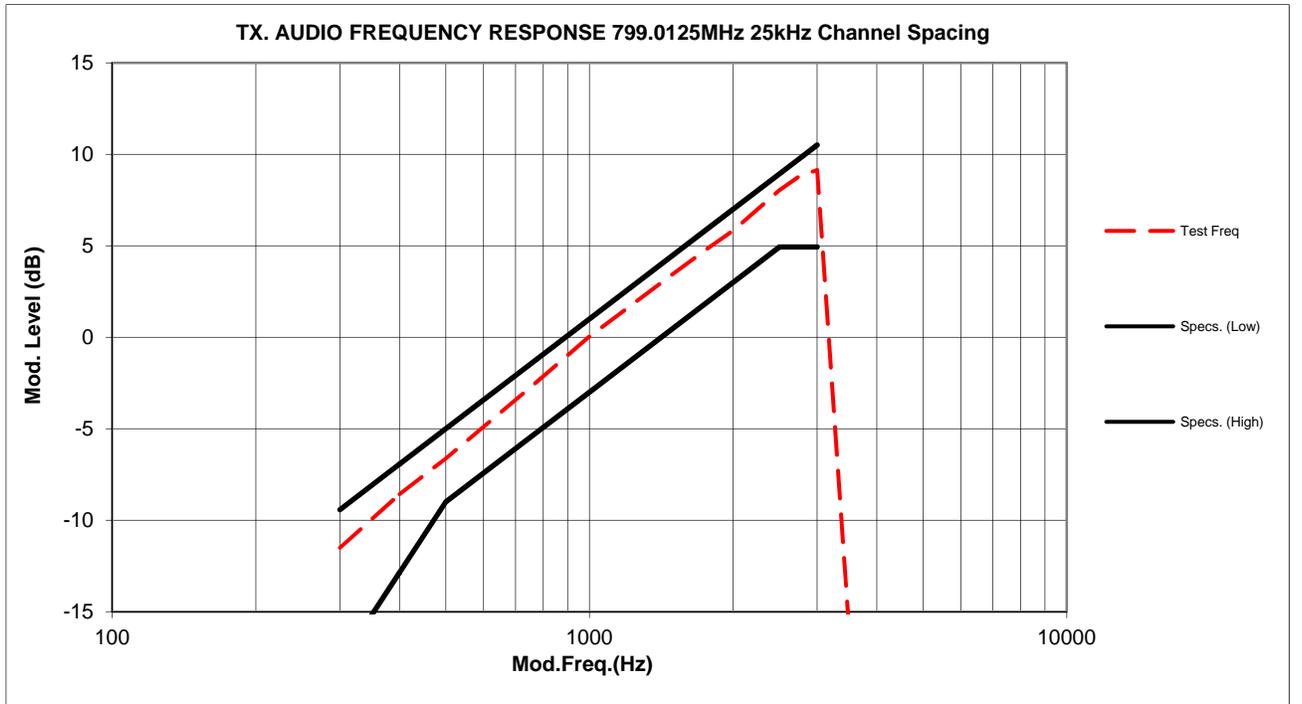
**Transmit Audio Frequency Response**



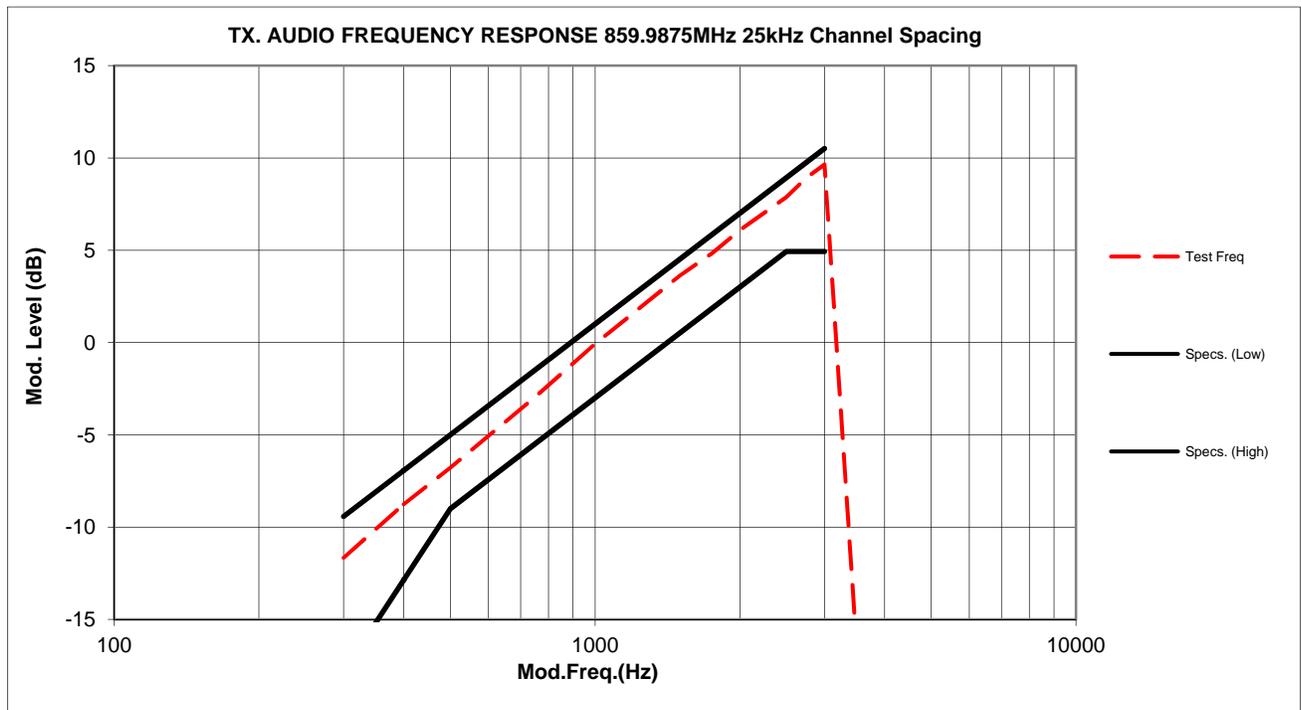
**Figure 6B-1:** 12.5 kHz Channel Spacing, 799.0125 MHz, Transmit Audio Frequency Response



**Figure 6B-2:** 12.5 kHz Channel Spacing, 859.9875 MHz, Transmit Audio Frequency Response



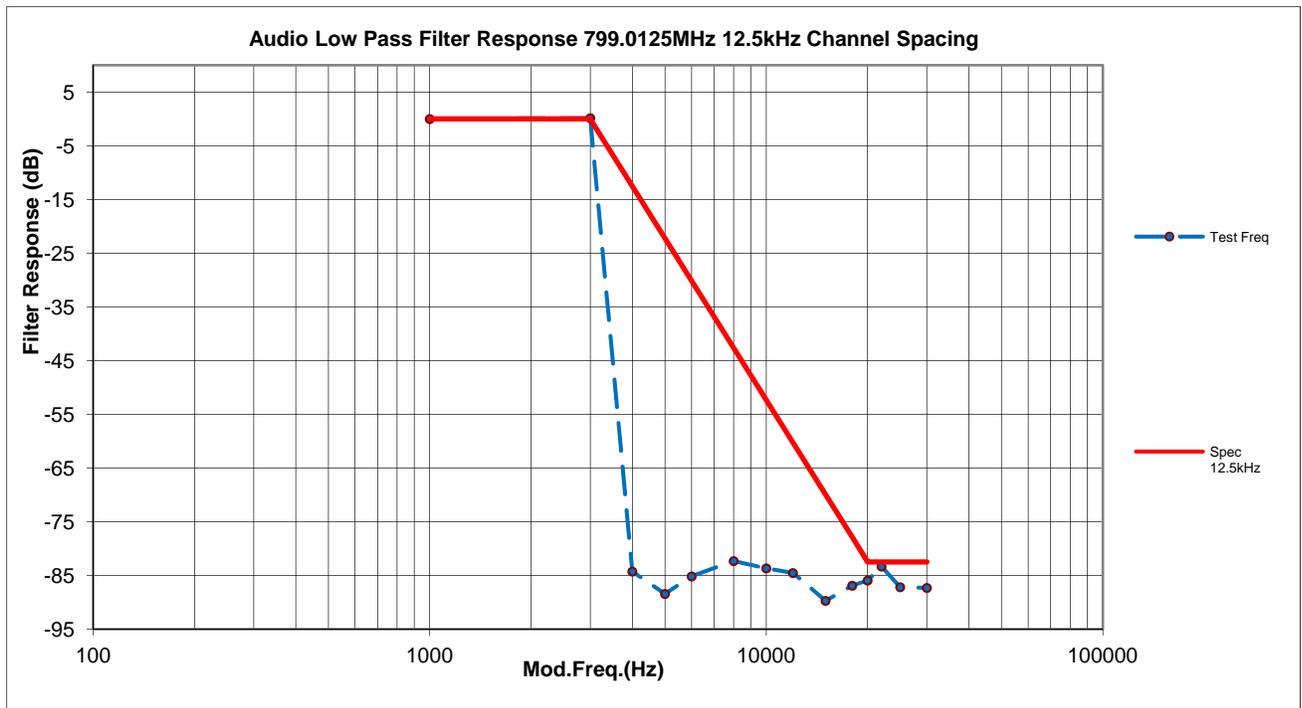
**Figure 6B-3:** 25 kHz Channel Spacing, 799.0125 MHz, Transmit Audio Frequency Response (IC Only)



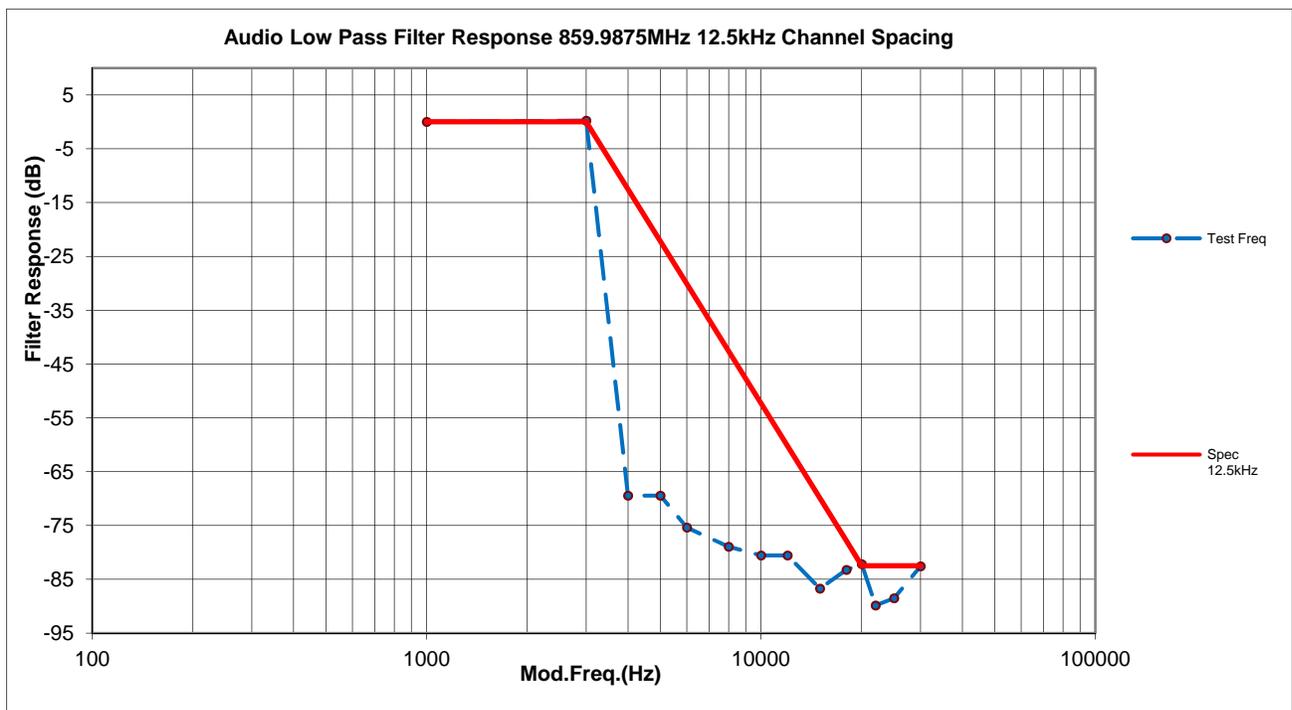
**Figure 6B-4:** 25 kHz Channel Spacing, 859.9875 MHz, Transmit Audio Frequency Response

**EXHIBIT 6C**

**Transmit Audio Low Pass Filter Response**



**Figure 6C-1:** 12.5 kHz Channel Spacing, 799.0125 MHz, Transmit Audio Low Pass Filter Response



**Figure 6C-2:** 12.5 kHz Channel Spacing, 859.9875 MHz, Transmit Audio Low Pass Filter Response



Figure 6C-3: 25 kHz Channel Spacing, 799.0125 MHz, Transmit Audio Low Pass Filter Response (IC Only)

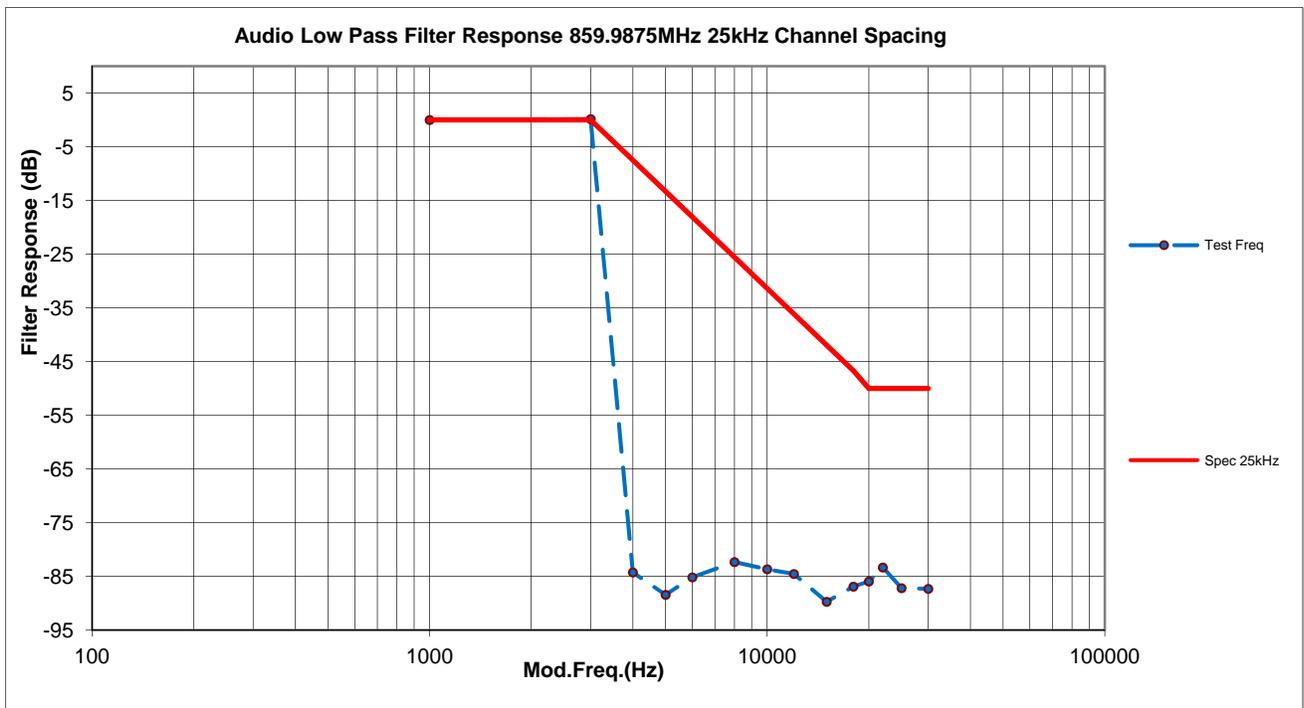
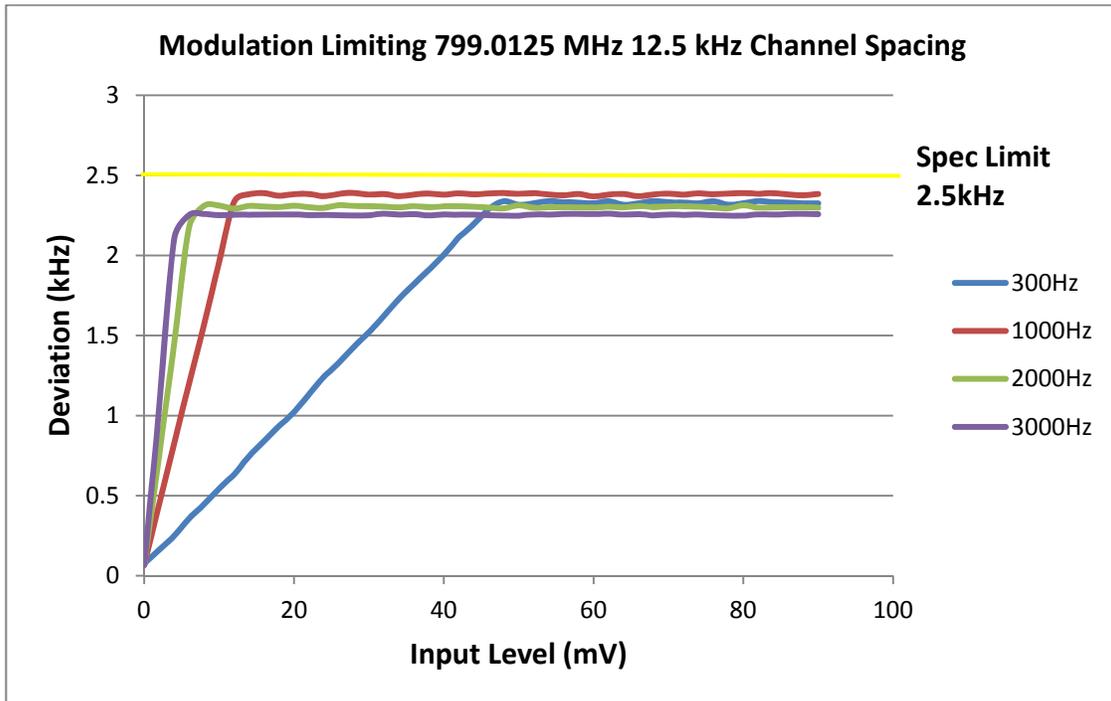


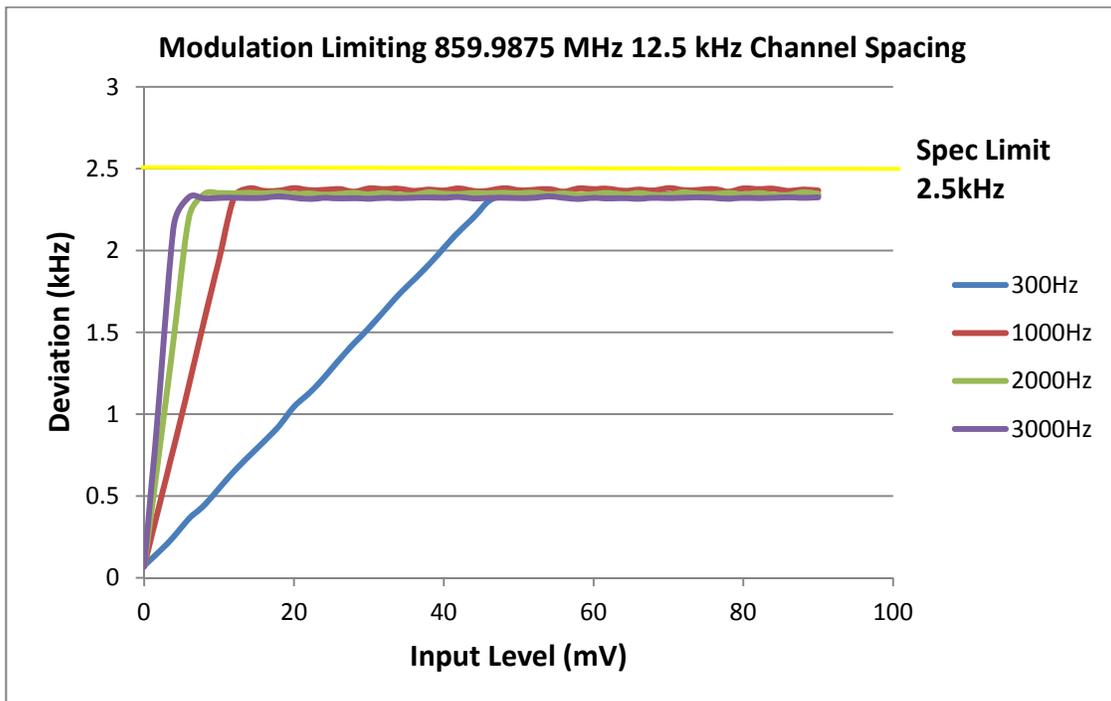
Figure 6C-4: 25 kHz Channel Spacing, 859.9875 MHz, Transmit Audio Low Pass Filter Response

**EXHIBIT 6D**

**Modulation Limiting**



**Figure 6D-1:** 12.5 kHz Channel Spacing, 799.0125 MHz, Modulation Limiting



**Figure 6D-2:** 12.5 kHz Channel Spacing, 859.9875 MHz, Modulation Limiting

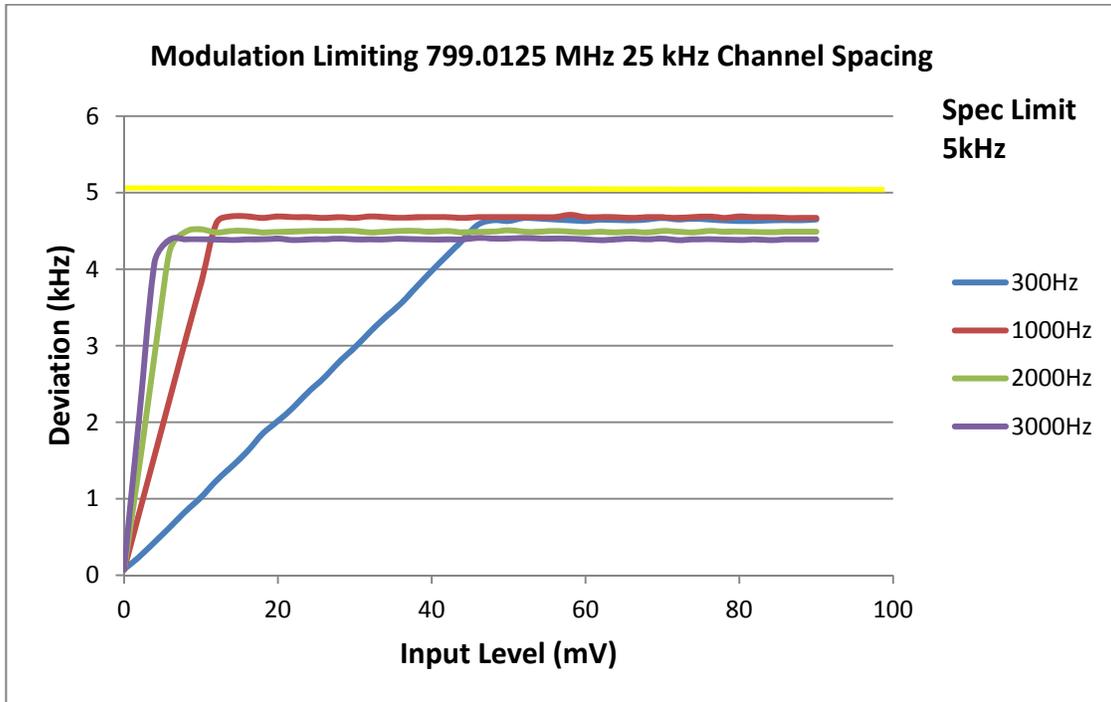


Figure 6D-3: 25 kHz Channel Spacing, 799.0125 MHz, Modulation Limiting (IC Only)

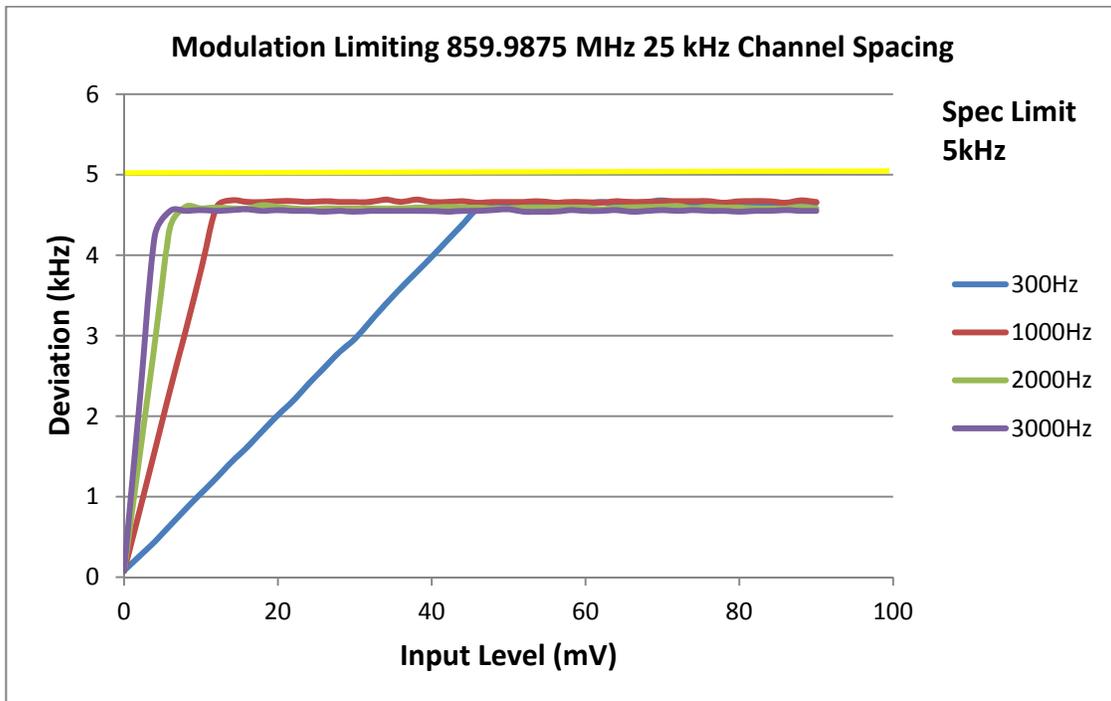


Figure 6D-4: 25 kHz Channel Spacing, 859.9875 MHz, Modulation Limiting

**EXHIBIT 6E - 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: **AZ489FT7057**.

FCC Public Notice (DA 13-1803, released 8/27/2013) indicates that "*applications for certification of digital equipment capable of operating in the 800 MHz NPSPAC band to demonstrate compliance with Emission Mask H.*"

**EXHIBIT 6E-1****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.

**EXHIBIT 6E-2****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.

$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} \Rightarrow 16K0$   
F3E portion of the designator indicates voice.

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

**EXHIBIT 6E-3****Digital (12.5 kHz Channelization, Digital Data):**

Emission Designator 8K10F1D

The 99% energy rule (title 47CFR 2.1049 (h)) 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 102.CAAB Section 3.2.5. 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 data is 8K10F1D.

**EXHIBIT 6E-4****Digital (12.5 kHz Channelization, Digital Voice):**

Emission Designator 8K10F1E

The 99% energy rule (title 47CFR 2.1049 (h)) 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 102.CAAB Section 3.2.5. 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.

**EXHIBIT 6E-5**

**Digital (12.5 kHz Channelization, Digital TDMA):**

Emission Designator 8K10F1W

The 99% energy rule (title 47CFR 2.1049 (h)) 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 102.CAAB Section 3.2.5. The emission mask was obtained from 47CFR 90.210(d).

F1W portion of the designator indicates digital TDMA.

Therefore, the entire designator for 12.5 kHz channelization digital TDMA is 8K10F1W.

Occupied Bandwidth Data

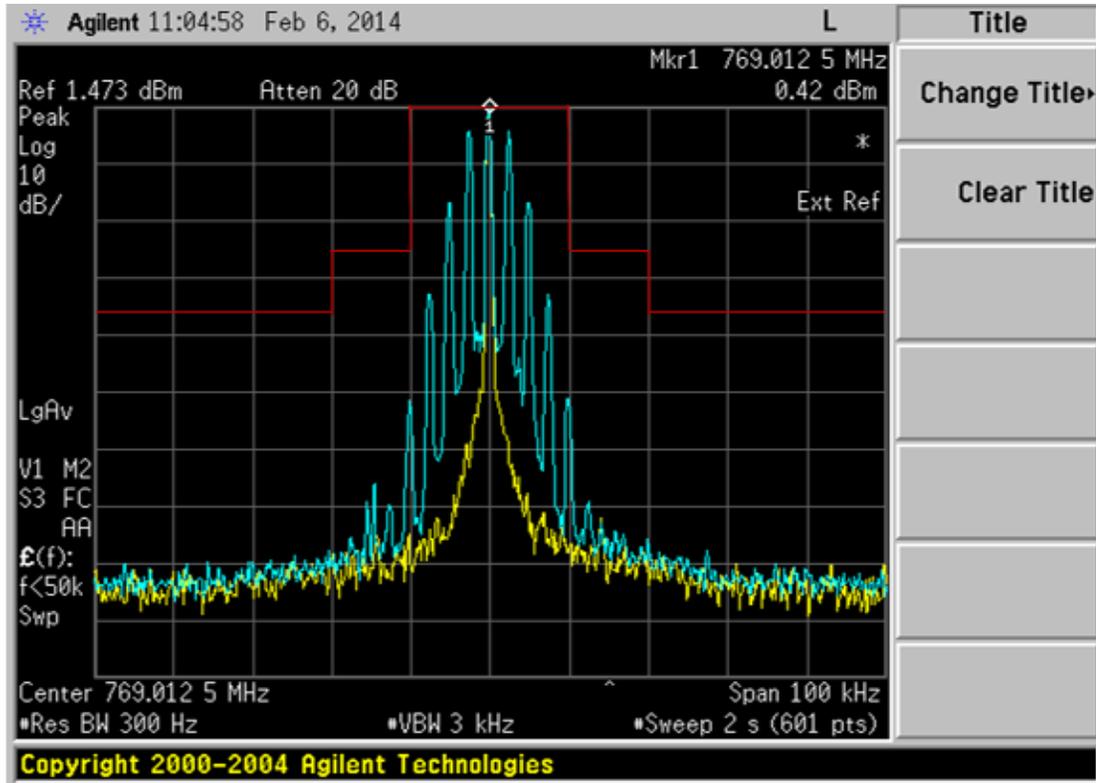


Figure 6E-1: 799.0125 MHz, Channel Spacing: 12.5 kHz, Analog Voice: 11K0F3E Mask B

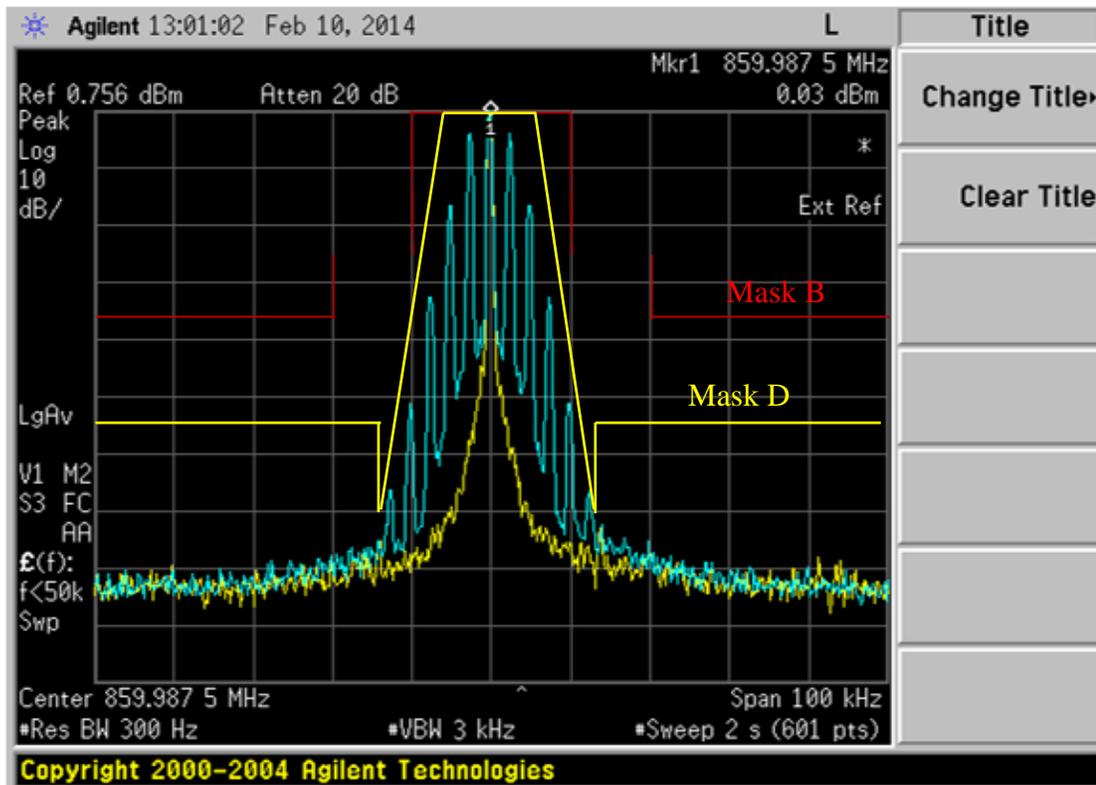


Figure 6E-2: 859.9875 MHz, Channel Spacing: 12.5 kHz, Analog Voice: 11K0F3E Mask B, D



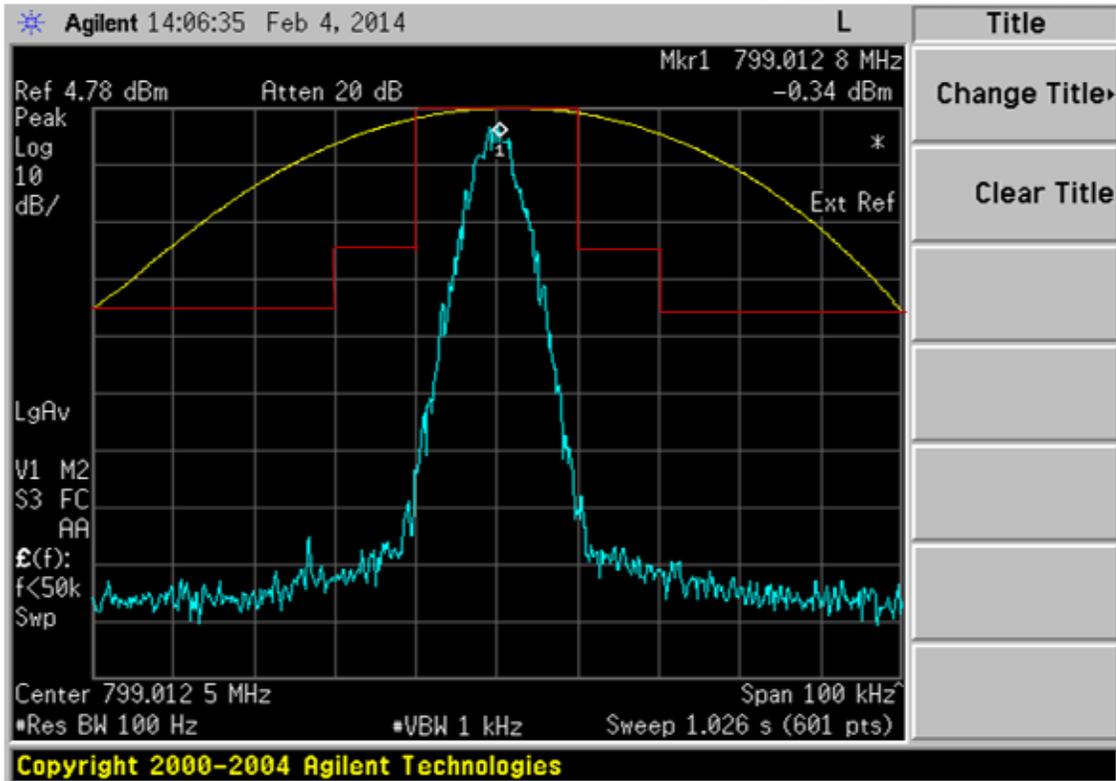


Figure 6E-5: 799.0125MHz, Channel Spacing: 12.5 kHz, Digital Voice: 8K10F1E Mask B

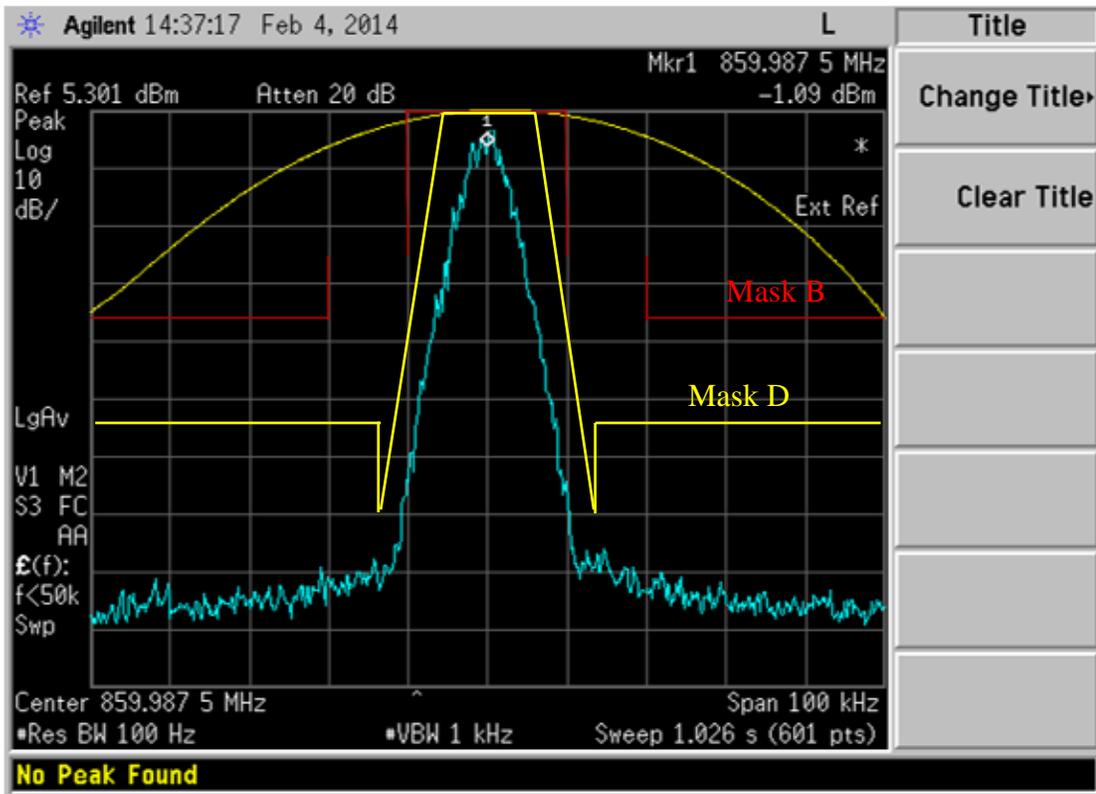


Figure 6E-6: 859.9875MHz, Channel Spacing: 12.5 kHz, Digital Voice: 8K10F1E Mask B, D

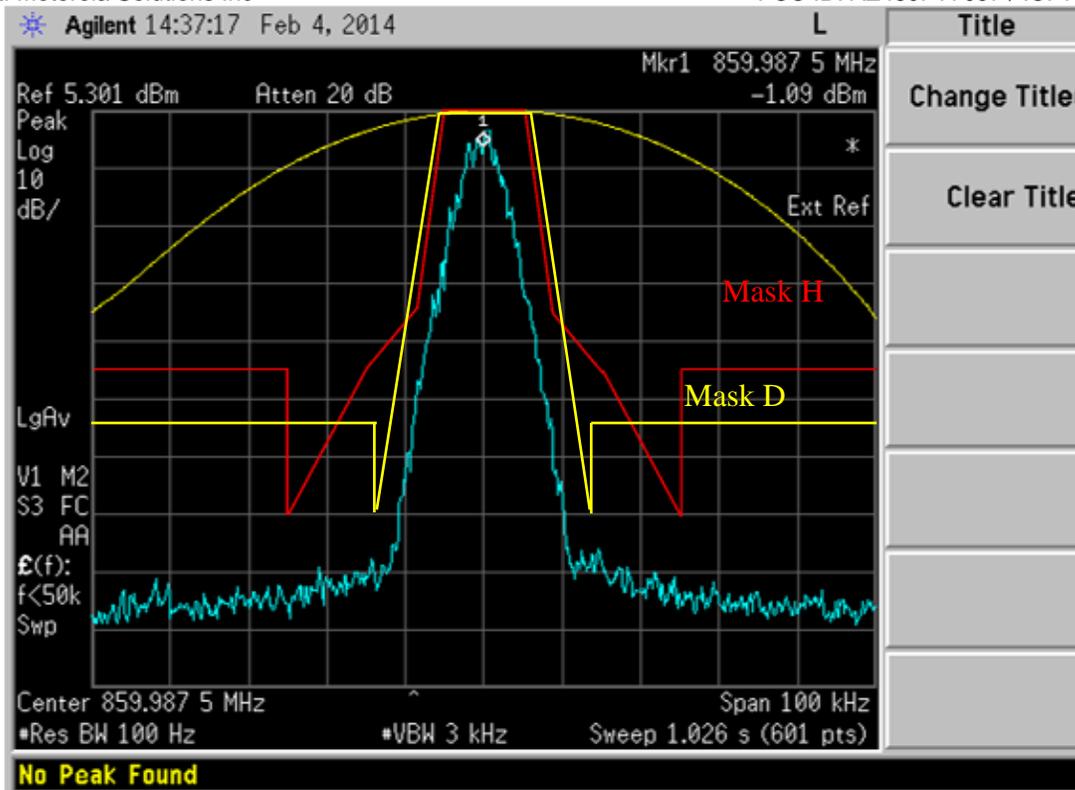


Figure 6E-7: 859.9875MHz, Channel Spacing: 12.5 kHz, Digital Voice: 8K10F1E Mask H, D

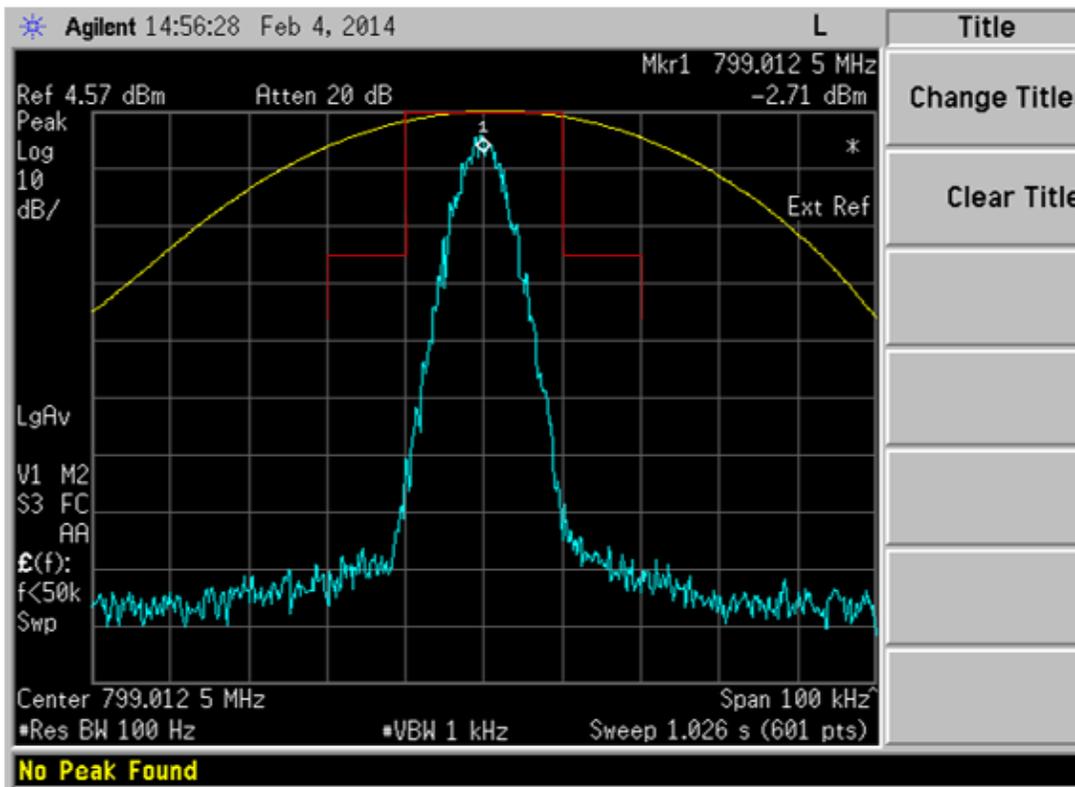


Figure 6E-8: 799.0125MHz, Channel Spacing: 12.5 kHz, Digital Data: 8K10F1D Mask B

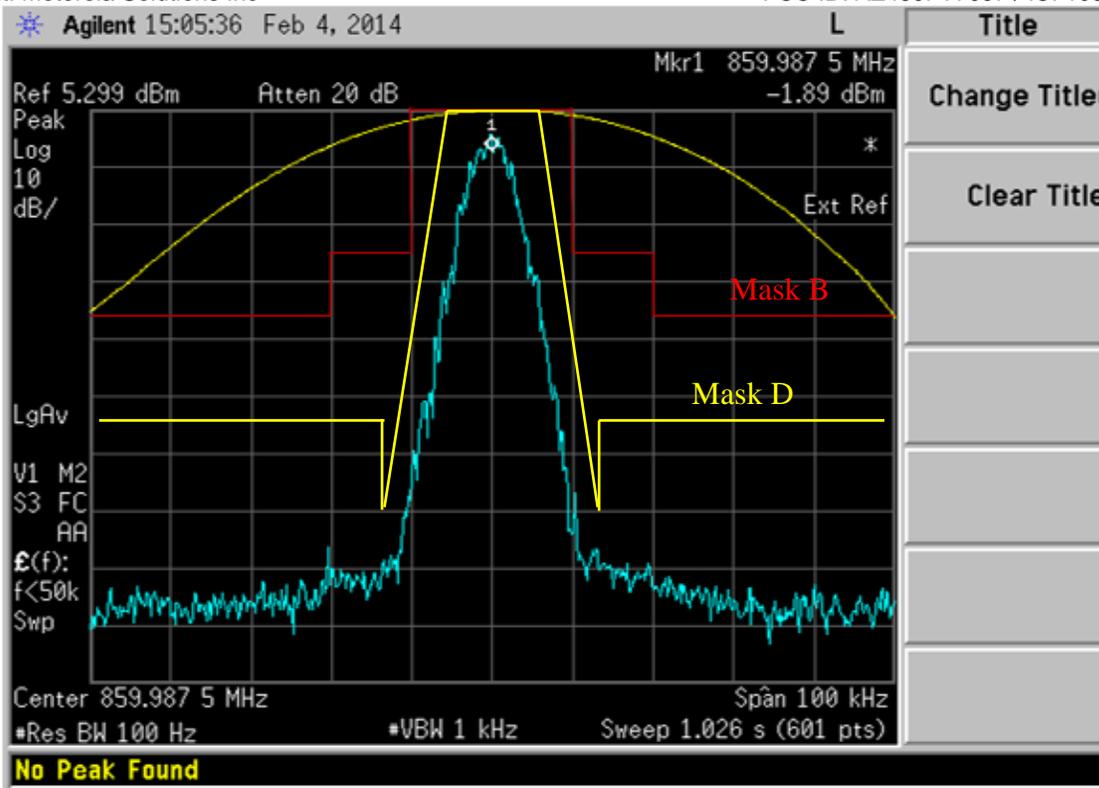


Figure 6E-9: 859.9875MHz, Channel Spacing: 12.5 kHz, Digital Data: 8K10F1D Mask B, D

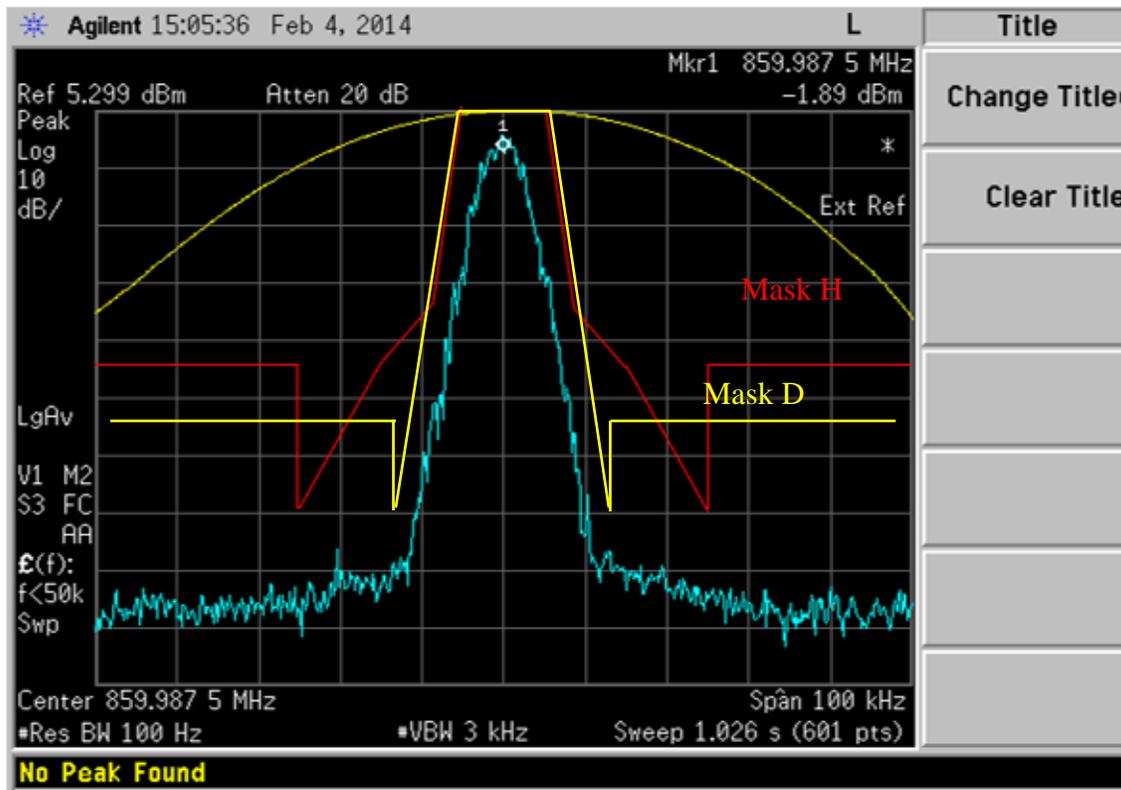


Figure 6E-10: 859.9875MHz, Channel Spacing: 12.5 kHz, Digital Data: 8K10F1D Mask H, D

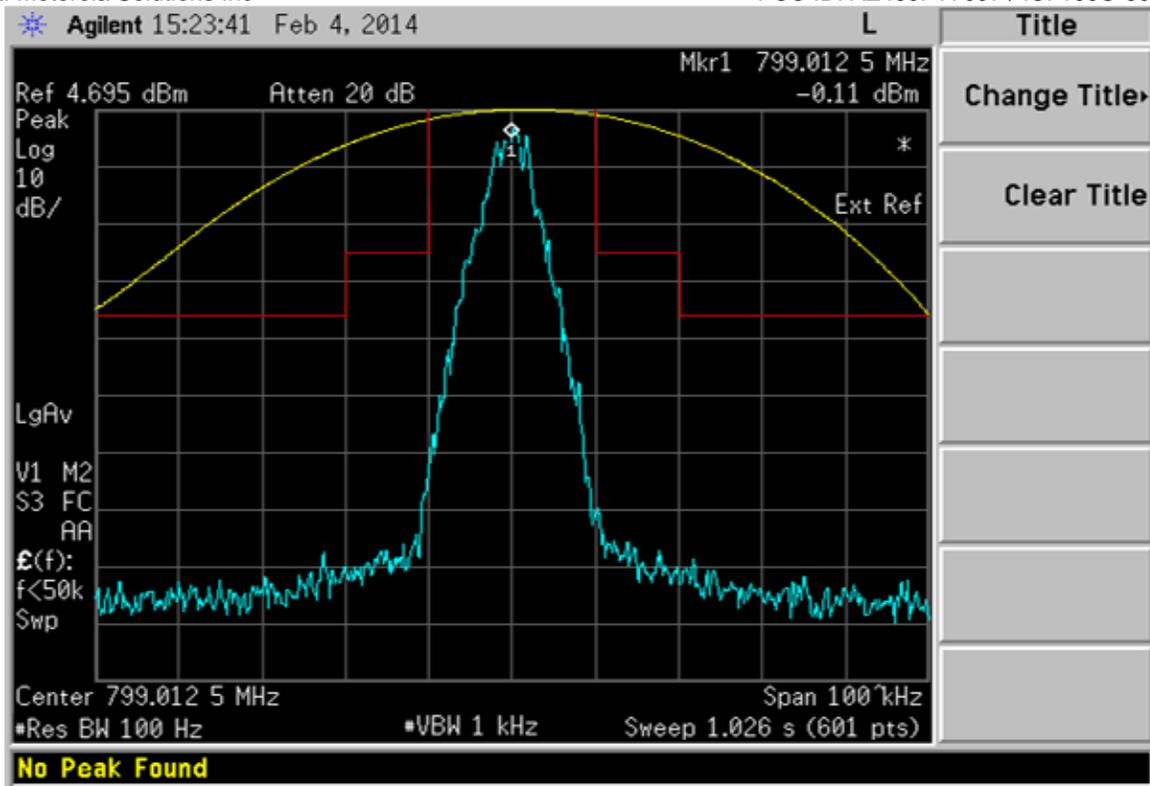


Figure 6E-11: 799.0125MHz, Channel Spacing: 12.5kHz, Digital TDMA: 8K10F1W Mask B

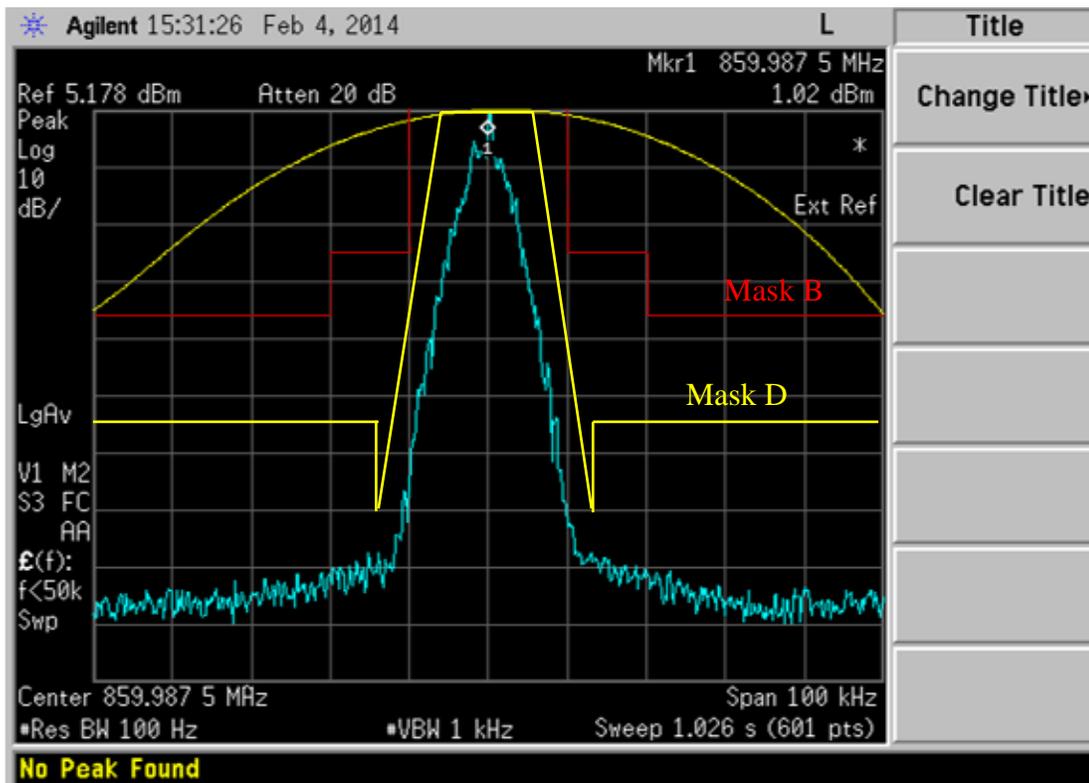


Figure 6E-12: 859.9875MHz, Channel Spacing: 12.5 kHz, Digital TDMA: 8K10F1W Mask B, D

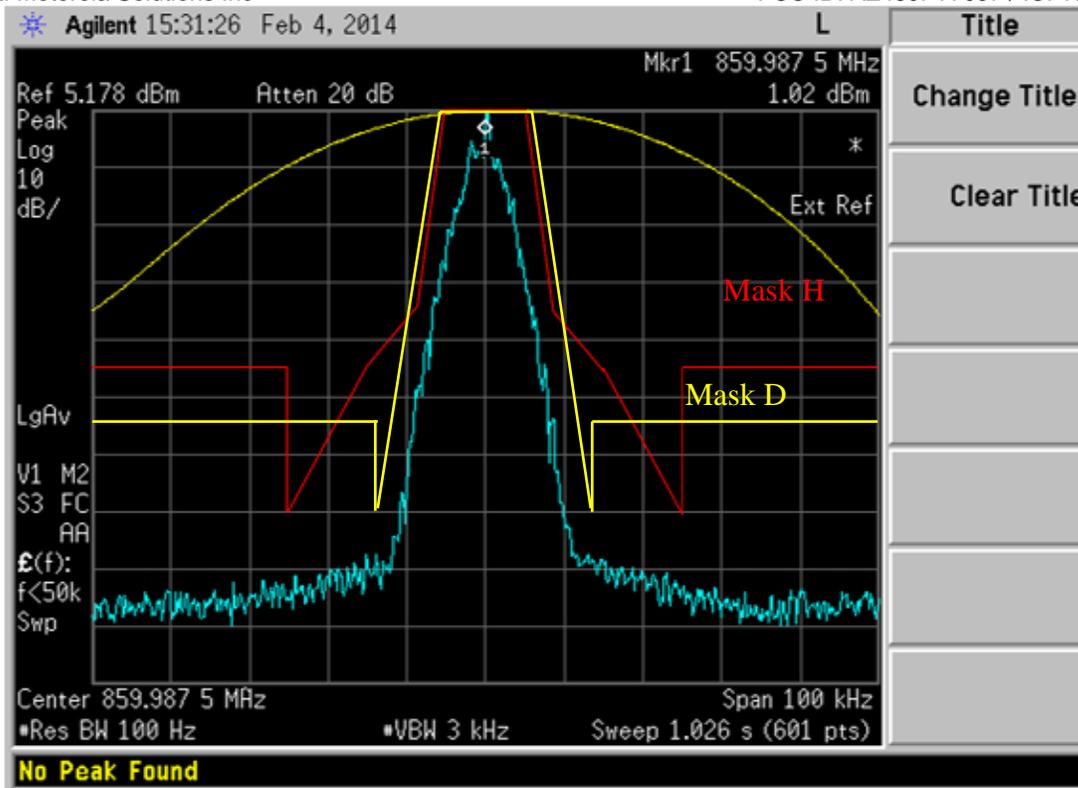


Figure 6E-13: 859.9875MHz, Channel Spacing: 12.5 kHz, Digital TDMA: 8K10F1W Mask H, D

**EXHIBIT 6F**

**Adjacent Channel Power**

<b>ANALOG 12.5 kHz Channel Spacing</b>			<b>769.0125 MHz</b>			
<b>Offset (kHz)</b>	<b>Meas BW (kHz)</b>		<b>Lower</b>		<b>Upper</b>	<b>Spec (dB)</b>
9.375	6.25		-72.15		-70.91	-40
15.625	6.25		-73.43		-72.24	-60
21.875	6.25		-76.56		-75.93	-60
37.5	25		-72.73		-72.61	-60
62.5	25		-75.47		-75.28	-65
87.5	25		-78.48		-78.54	-65
150	100		-76.47		-76.49	-65
250	100		-81.57		-81.44	-65
350	100		-84.78		-84.74	-65
400k - 12M	30 (swept)		< -75		< -75	-75
12M - RX	30 (swept)		< -75		< -75	-75
RX Band	30 (swept)		< -100		< -100	-100

**Figure 6F-1:** 769.0125MHz, Analog 12.5 kHz Channel Spacing

<b>ANALOG 25 kHz Channel Spacing</b>			<b>769.0125 MHz</b>			
<b>Offset (kHz)</b>	<b>Meas BW (kHz)</b>		<b>Lower</b>		<b>Upper</b>	<b>Spec (dB)</b>
15.625	6.25		-73.55		-72.41	-40
21.875	6.25		-76.57		-76.02	-60
37.5	25		-72.67		-72.54	-60
62.5	25		-75.42		-75.28	-65
87.5	25		-78.44		-78.48	-65
150	100		-76.48		-76.5	-65
250	100		-81.54		-81.38	-65
350	100		-84.71		-84.69	-65
400k - 12M	30 (swept)		< -75		< -75	-75
12M - RX	30 (swept)		< -75		< -75	-75
RX Band	30 (swept)		< -100		< -100	-100

**Figure 6F-2:** 769.0125MHz, Analog 25 kHz Channel Spacing (IC Only)

<b>APCO 12.5 kHz Channel Spacing</b>		<b>Digital Data</b>		<b>769.0125 MHz</b>	
<b>Offset (kHz)</b>	<b>Meas BW (kHz)</b>	<b>Lower</b>	<b>Upper</b>	<b>Spec (dB)</b>	
9.375	6.25	-40.47	-40.29	-40	
15.625	6.25	-73.01	-71.49	-60	
21.875	6.25	-77.05	-76.47	-60	
37.5	25	-76.5	-76.17	-60	
62.5	25	-82.23	-81.63	-65	
87.5	25	-83.82	-84.09	-65	
150	100	-77.55	-77.61	-65	
250	100	-80.91	-80.77	-65	
350	100	-83.83	-83.79	-65	
400k - 12M	30 (swept)	< -75	< -75	-75	
12M - RX	30 (swept)	< -75	< -75	-75	
RX Band	30 (swept)	< -100	< -100	-100	

Figure 6F-3: 769.0125MHz, APCO 12.5 kHz Channel Spacing, Digital Data

<b>APCO 12.5 kHz Channel Spacing</b>		<b>Digital Voice</b>		<b>769.0125 MHz</b>	
<b>Offset (kHz)</b>	<b>Meas BW (kHz)</b>	<b>Lower</b>	<b>Upper</b>	<b>Spec (dB)</b>	
9.375	6.25	-42.89	-41.32	-40	
15.625	6.25	-72.31	-70.5	-60	
21.875	6.25	-77.42	-76.8	-60	
37.5	25	-76.71	-76.08	-60	
62.5	25	-82.39	-81.68	-65	
87.5	25	-83.68	-84.14	-65	
150	100	-77.53	-77.58	-65	
250	100	-80.85	-80.74	-65	
350	100	-83.72	-83.8	-65	
400k - 12M	30 (swept)	< -75	< -75	-75	
12M - RX	30 (swept)	< -75	< -75	-75	
RX Band	30 (swept)	< -100	< -100	-100	

Figure 6F-4: 769.0125MHz, APCO 12.5 kHz Channel Spacing, Digital Voice

12.5 kHz Channel Spacing		F2 Mode		769.0125 MHz		
Offset (kHz)	Meas BW (kHz)		Lower		Upper	Spec (dB)
9.375	6.25		-41.19		-41.29	-40
15.625	6.25		-72.51		-71.19	-60
21.875	6.25		-76.22		-75.27	-60
37.5	25		-76.22		-75.76	-60
62.5	25		-81.92		-81.23	-65
87.5	25		-83.48		-83.61	-65
150	100		-77.19		-77.23	-65
250	100		-80.43		-80.25	-65
350	100		-82.66		-82.71	-65
400k - 12M	30 (swept)		< -75		< -75	-75
12M - RX	30 (swept)		< -75		< -75	-75
RX Band	30 (swept)		< -100		< -100	-100

Figure 6F-5: 769.0125MHz, APCO 12.5 kHz Channel Spacing, Digital TDMA

ANALOG 12.5 kHz Channel Spacing				799.0125 MHz		
Offset (kHz)	Meas BW (kHz)		Lower		Upper	Spec (dB)
9.375	6.25		-70.64		-69.73	-40
15.625	6.25		-71.4		-70.37	-60
21.875	6.25		-74.92		-74.93	-60
37.5	25		-71.85		-71.87	-60
62.5	25		-75.25		-75.07	-65
87.5	25		-78.33		-78.37	-65
150	100		-76.28		-76.32	-65
250	100		-81.36		-81.28	-65
350	100		-84.28		-84.33	-65
400k - 12M	30 (swept)		< -75		< -75	-75
12M - RX	30 (swept)		< -75		< -75	-75
RX Band	30 (swept)		< -100		< -100	-100

Figure 6F-6: 799.0125MHz, Analog 12.5 kHz Channel Spacing

<b>ANALOG 25 kHz Channel Spacing</b>			<b>799.0125 MHz</b>			
<b>Offset (kHz)</b>	<b>Meas BW (kHz)</b>		<b>Lower</b>		<b>Upper</b>	<b>Spec (dB)</b>
15.625	6.25		-72.22		-71.3	-40
21.875	6.25		-75.48		-75.28	-60
37.5	25		-71.94		-71.97	-60
62.5	25		-75.21		-75.01	-65
87.5	25		-78.34		-78.53	-65
150	100		-76.35		-76.34	-65
250	100		-81.39		-81.19	-65
350	100		-84.33		-84.36	-65
400k - 12M	30 (swept)		< -75		< -75	-75
12M - RX	30 (swept)		< -75		< -75	-75
RX Band	30 (swept)		< -100		< -100	-100

Figure 6F-7: 799.0125MHz, Analog 25 kHz Channel Spacing (IC Only)

<b>APCO 12.5 kHz Channel Spacing</b>		<b>Digital Data</b>	<b>799.0125 MHz</b>			
<b>Offset (kHz)</b>	<b>Meas BW (kHz)</b>		<b>Lower</b>		<b>Upper</b>	<b>Spec (dB)</b>
9.375	6.25		-41.22		-41.18	-40
15.625	6.25		-71.52		-70.48	-60
21.875	6.25		-75.62		-75.09	-60
37.5	25		-75.06		-74.88	-60
62.5	25		-81.12		-80.63	-65
87.5	25		-83		-83.18	-65
150	100		-77.25		-77.33	-65
250	100		-80.63		-80.51	-65
350	100		-83.53		-83.58	-65
400k - 12M	30 (swept)		< -75		< -75	-75
12M - RX	30 (swept)		< -75		< -75	-75
RX Band	30 (swept)		< -100		< -100	-100

Figure 6F-8: 799.0125MHz, APCO 12.5 kHz Channel Spacing, Digital Data

<b>APCO 12.5 kHz Channel Spacing</b>		<b>Digital Voice</b>		<b>799.0125 MHz</b>		
<b>Offset (kHz)</b>	<b>Meas BW (kHz)</b>		<b>Lower</b>		<b>Upper</b>	<b>Spec (dB)</b>
9.375	6.25		-40.19		-42.76	-40
15.625	6.25		-71.5		-70.42	-60
21.875	6.25		-75.36		-75.01	-60
37.5	25		-75.24		-74.99	-60
62.5	25		-81.17		-80.68	-65
87.5	25		-83.02		-83.19	-65
150	100		-77.25		-77.3	-65
250	100		-80.69		-80.54	-65
350	100		-83.52		-83.56	-65
400k - 12M	30 (swept)		< -75		< -75	-75
12M - RX	30 (swept)		< -75		< -75	-75
RX Band	30 (swept)		< -100		< -100	-100

Figure 6F-9: 799.0125MHz, APCO 12.5 kHz Channel Spacing, Digital Voice

<b>12.5 kHz Channel Spacing</b>		<b>F2 Mode</b>		<b>799.0125 MHz</b>		
<b>Offset (kHz)</b>	<b>Meas BW (kHz)</b>		<b>Lower</b>		<b>Upper</b>	<b>Spec (dB)</b>
9.375	6.25		-40.57		-42.97	-40
15.625	6.25		-71.22		-70.1	-60
21.875	6.25		-75.03		-74.54	-60
37.5	25		-74.86		-74.66	-60
62.5	25		-80.84		-80.32	-65
87.5	25		-82.65		-65.86	-65
150	100		-76.94		-76.97	-65
250	100		-79.54		-79.85	-65
350	100		-82.46		-82.54	-65
400k - 12M	30 (swept)		< -75		< -75	-75
12M - RX	30 (swept)		< -75		< -75	-75
RX Band	30 (swept)		< -100		< -100	-100

Figure 6F-10: 799.0125MHz, APCO 12.5 kHz Channel Spacing, Digital TDMA

**EXHIBIT 6G**  
**Transmitter Radiated Spurious Emissions**

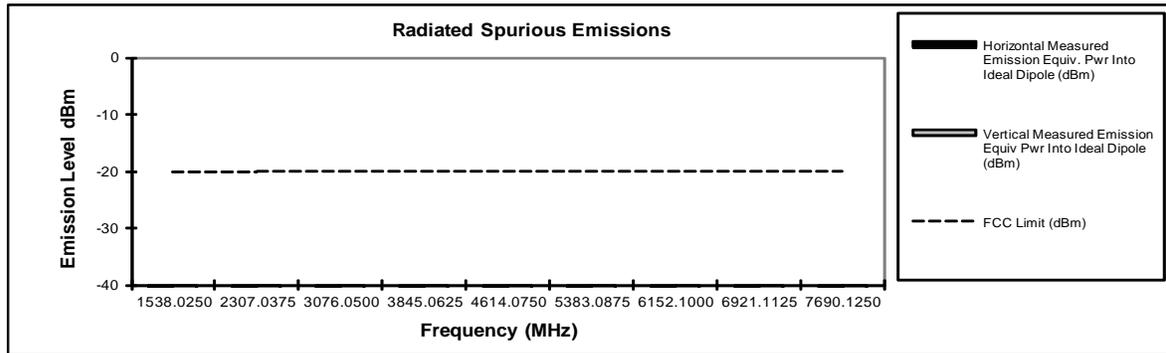
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 2.99 Watts**

**769.0125 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1538.0250	-20	*	*
2307.0375	-20	*	*
3076.0500	-20	*	*
3845.0625	-20	*	*
4614.0750	-20	*	*
5383.0875	-20	*	*
6152.1000	-20	*	*
6921.1125	-20	*	*
7690.1250	-20	*	*



**Figure 6G-1: 2.99W, 769.0125 MHz, 12.5 kHz Channel Spacing**

**Motorola Solutions**

**FCC ID:AZ489FT7057 / IC ID: 109U-89FT7057**

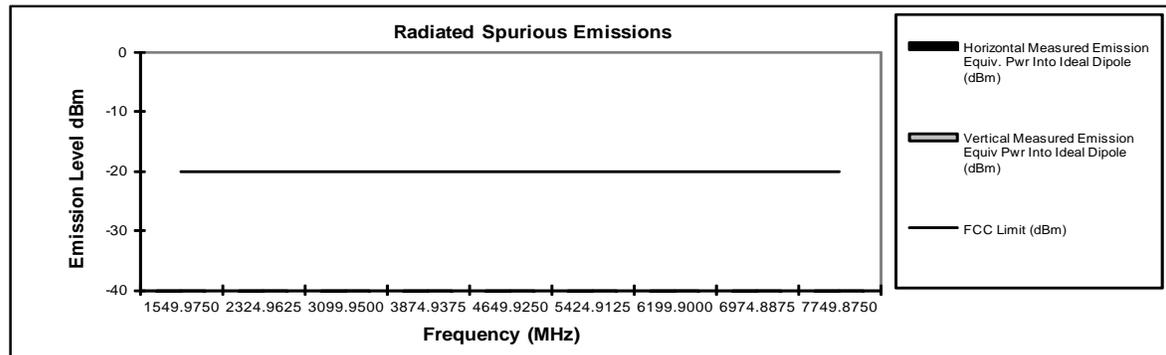
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 2.99 Watts**

**774.9875 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1549.9750	-20	*	*
2324.9625	-20	*	*
3099.9500	-20	*	*
3874.9375	-20	*	*
4649.9250	-20	*	*
5424.9125	-20	*	*
6199.9000	-20	*	*
6974.8875	-20	*	*
7749.8750	-20	*	*



**Figure 6G-2: 2.99W, 774.9875 MHz, 12.5 kHz Channel Spacing**

**Motorola Solutions**

**FCC ID:AZ489FT7057 / IC ID: 109U-89FT7057**

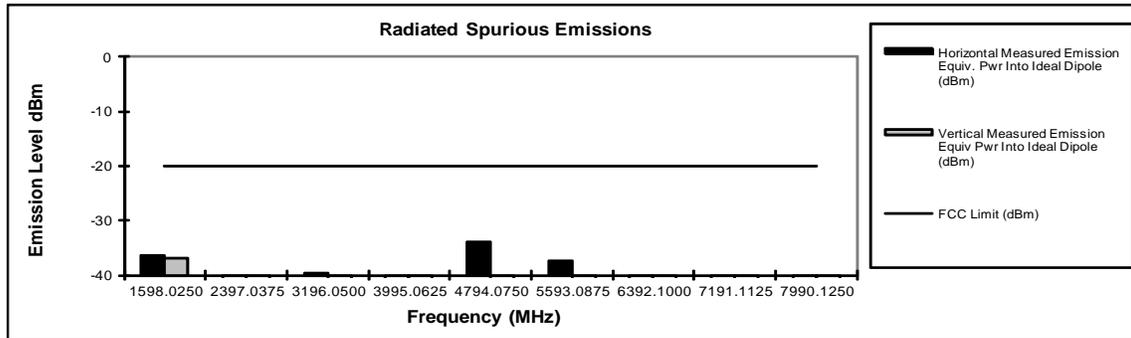
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 2.99 Watts**

**799.0125 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1598.0250	-20	-36.52	-36.88
2397.0375	-20	*	*
3196.0500	-20	-39.59	*
3995.0625	-20	*	*
4794.0750	-20	-33.85	*
5593.0875	-20	-37.38	*
6392.1000	-20	*	*
7191.1125	-20	*	*
7990.1250	-20	*	*



**Figure 6G-3: 2.99W, 799.0125 MHz, 12.5 kHz Channel Spacing**

**Transmit Radiated Spurious Emissions: APX1000 7/800**

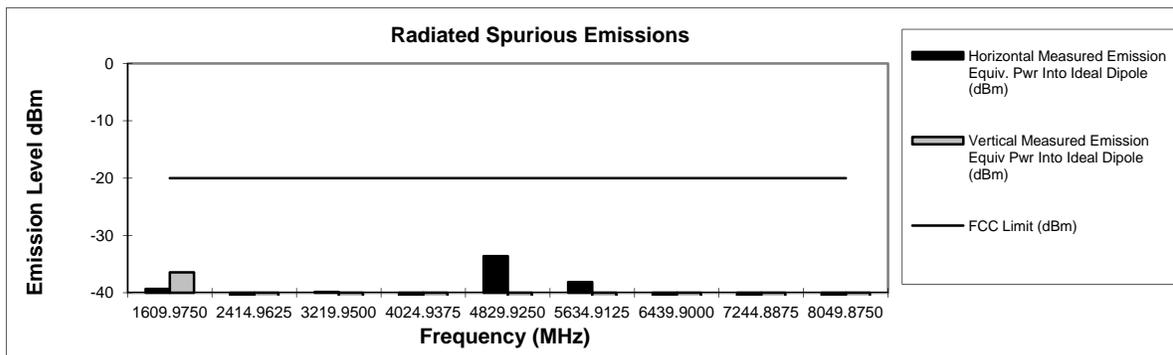
**APX1000 7/800**

**Tx Power: 2.99 Watts**

**804.9875 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1609.9750	-20	-39.33	-36.44
2414.9625	-20	*	*
3219.9500	-20	-39.84	*
4024.9375	-20	*	*
4829.9250	-20	-33.60	*
5634.9125	-20	-38.12	*
6439.9000	-20	*	*
7244.8875	-20	*	*
8049.8750	-20	*	*



**Figure 6G-4: 2.99W, 804.9875 MHz, 12.5 kHz Channel Spacing**

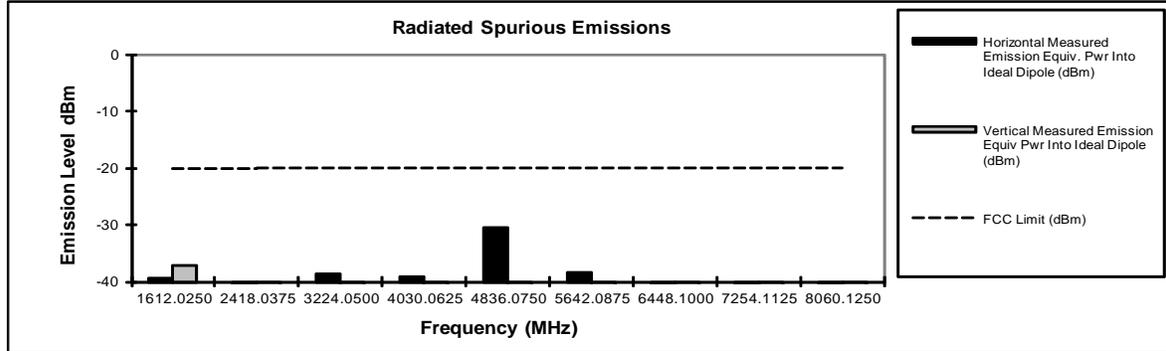
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**806.0125 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1612.0250	-20	-39.27	-37.16
2418.0375	-20	*	*
3224.0500	-20	-38.61	*
4030.0625	-20	-39.07	*
4836.0750	-20	-30.52	*
5642.0875	-20	-38.42	*
6448.1000	-20	*	*
7254.1125	-20	*	*
8060.1250	-20	*	*



**Figure 6G-5: 3.6W, 806.0125 MHz, 12.5 kHz Channel Spacing**

**Motorola Solutions**

**FCC ID: AZ489FT7057 / IC ID: 109U-89FT7057**

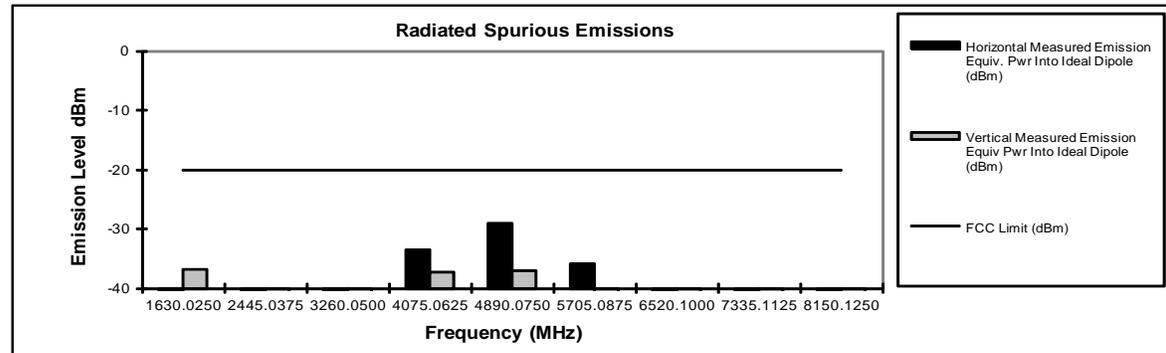
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**815.0125 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1630.0250	-20	*	-36.72
2445.0375	-20	*	*
3260.0500	-20	*	*
4075.0625	-20	-33.52	-37.35
4890.0750	-20	-28.95	-37.14
5705.0875	-20	-35.94	*
6520.1000	-20	*	*
7335.1125	-20	*	*
8150.1250	-20	*	*



**Figure 6G-6: 3.6W, 815.0125 MHz, 12.5 kHz Channel Spacing**

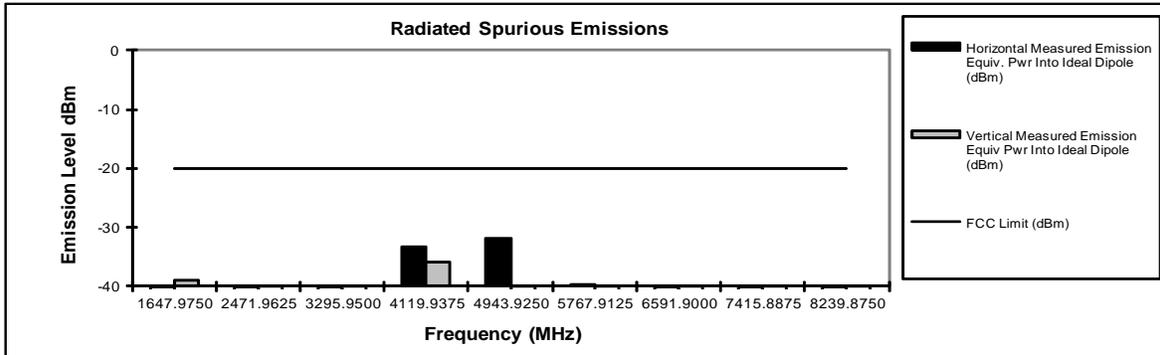
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**823.9875 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)
1647.9750	-20	*	-38.98
2471.9625	-20	*	*
3295.9500	-20	*	*
4119.9375	-20	-33.27	-35.80
4943.9250	-20	-31.80	*
5767.9125	-20	-39.84	*
6591.9000	-20	*	*
7415.8875	-20	*	*
8239.8750	-20	*	*



**Figure 6G-7: 3.6W, 823.9875 MHz, 12.5 kHz Channel Spacing**

**Motorola Solutions**

**FCC ID: AZ489FT7057 / IC ID: 109U-89FT7057**

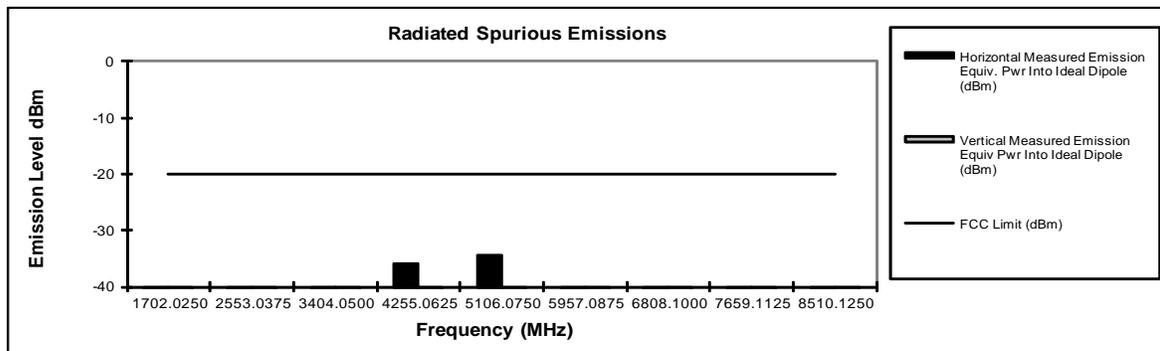
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**851.0125 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)
1702.0250	-20	*	*
2553.0375	-20	*	*
3404.0500	-20	*	*
4255.0625	-20	-35.94	*
5106.0750	-20	-34.35	*
5957.0875	-20	*	*
6808.1000	-20	*	*
7659.1125	-20	*	*
8510.1250	-20	*	*



**Figure 6G-8: 3.6W, 851.0125 MHz, 12.5 kHz Channel Spacing**

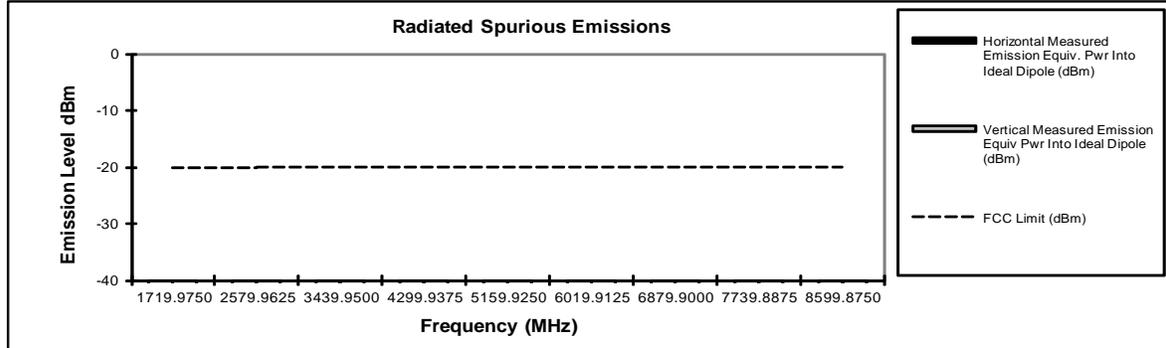
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**859.9875 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1719.9750	-20	*	*
2579.9625	-20	*	*
3439.9500	-20	*	*
4299.9375	-20	*	*
5159.9250	-20	*	*
6019.9125	-20	*	*
6879.9000	-20	*	*
7739.8875	-20	*	*
8599.8750	-20	*	*



**Figure 6G-9: 3.6W, 859.9875 MHz, 12.5 kHz Channel Spacing**

**Motorola Solutions**

**FCC ID: AZ489FT7057 / IC ID: 109U-89FT7057**

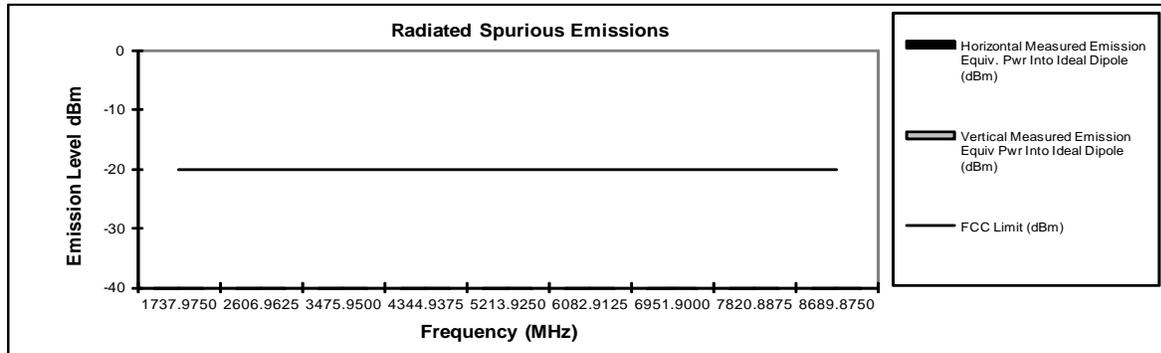
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**868.9875 MHz**

**Channel Spacing 12.5kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1737.9750	-20	*	*
2606.9625	-20	*	*
3475.9500	-20	*	*
4344.9375	-20	*	*
5213.9250	-20	*	*
6082.9125	-20	*	*
6951.9000	-20	*	*
7820.8875	-20	*	*
8689.8750	-20	*	*



**Figure 6G-10: 3.6W, 869.9875 MHz, 12.5 kHz Channel Spacing**

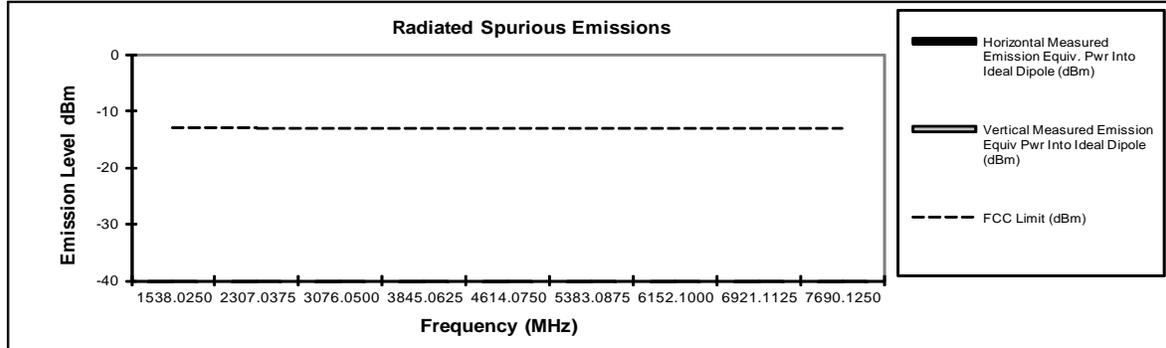
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 2.99 Watts**

**769.0125 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1538.0250	-13	*	*
2307.0375	-13	*	*
3076.0500	-13	*	*
3845.0625	-13	*	*
4614.0750	-13	*	*
5383.0875	-13	*	*
6152.1000	-13	*	*
6921.1125	-13	*	*
7690.1250	-13	*	*



**Figure 6G-11: 2.99W 768.0125 MHz, 25 kHz Channel Spacing (IC Only)**

**Motorola Solutions**

**FCC ID: AZ489FT7057 / IC ID: 109U-89FT7057**

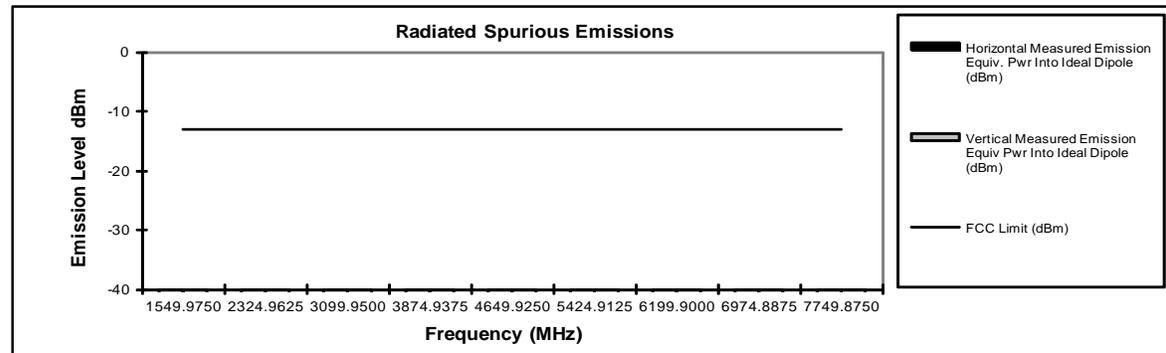
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 2.99 Watts**

**774.9875 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1549.9750	-13	*	*
2324.9625	-13	*	*
3099.9500	-13	*	*
3874.9375	-13	*	*
4649.9250	-13	*	*
5424.9125	-13	*	*
6199.9000	-13	*	*
6974.8875	-13	*	*
7749.8750	-13	*	*



**Figure 6G-125: 2.99W 774.9875 MHz, 25 kHz Channel Spacing (IC Only)**

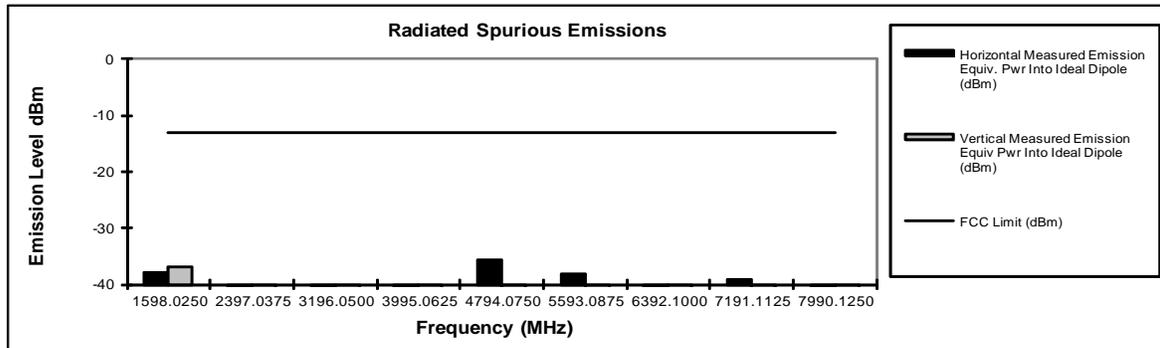
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 2.99 Watts**

**799.0125 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)
1598.0250	-13	-37.90	-36.87
2397.0375	-13	*	*
3196.0500	-13	*	*
3995.0625	-13	*	*
4794.0750	-13	-35.60	*
5593.0875	-13	-38.04	*
6392.1000	-13	*	*
7191.1125	-13	-39.07	*
7990.1250	-13	*	*



**Figure 6G-13: 2.99W 798.9875 MHz, 25 kHz Channel Spacing (IC Only)**

**Transmit Radiated Spurious Emissions:**

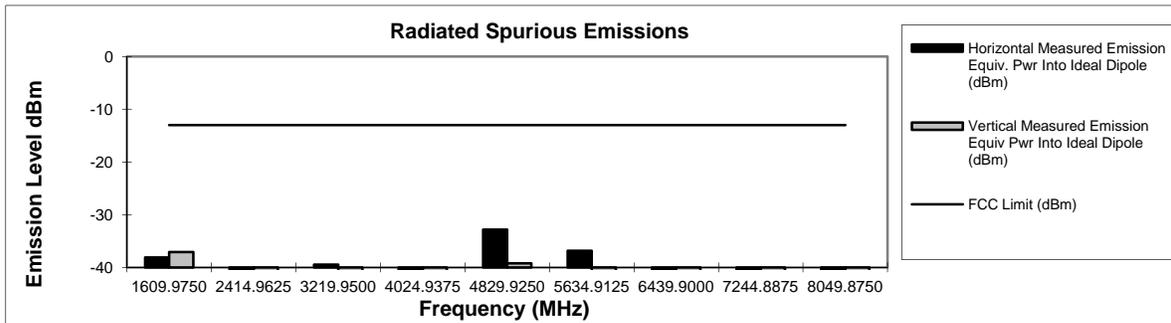
**APX1000 7/800**

**Tx Power: 2.99 Watts**

**804.9875 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)
1609.9750	-13	-38.11	-37.08
2414.9625	-13	*	*
3219.9500	-13	-39.47	*
4024.9375	-13	*	*
4829.9250	-13	-32.84	-39.24
5634.9125	-13	-36.85	*
6439.9000	-13	*	*
7244.8875	-13	*	*
8049.8750	-13	*	*



**Figure 6G-14: 2.99W 804.9875 MHz, 25 kHz Channel Spacing**

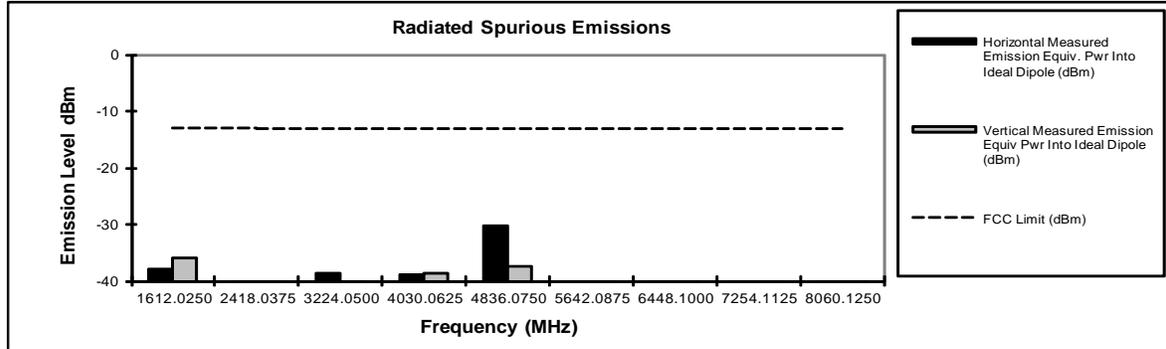
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**806.0125 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1612.0250	-13	-37.78	-35.82
2418.0375	-13	*	*
3224.0500	-13	-38.57	*
4030.0625	-13	-38.82	-38.70
4836.0750	-13	-30.30	-37.47
5642.0875	-13	*	*
6448.1000	-13	*	*
7254.1125	-13	*	*
8060.1250	-13	*	*



**Figure 6G-15: 3.6W 806.0125 MHz, 25 kHz Channel Spacing**

Motorola Solutions

FCC ID: AZ489FT7057 / IC ID: 109U-89FT7057

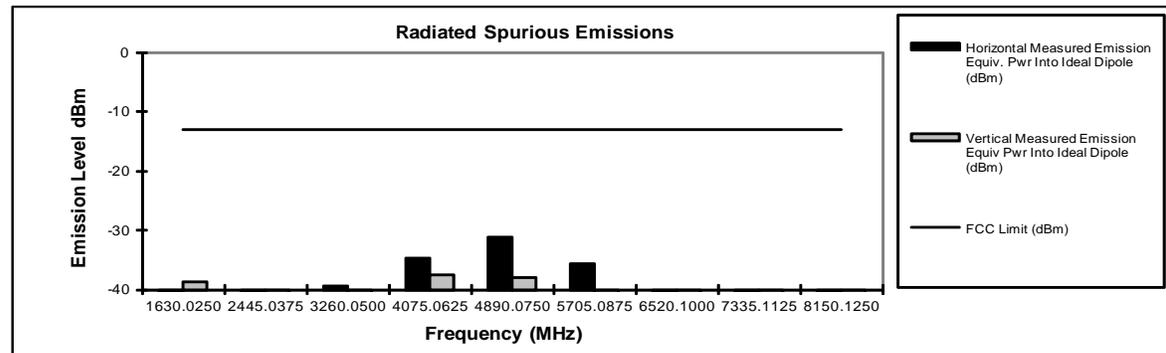
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**815.0125 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1630.0250	-13	*	-38.72
2445.0375	-13	*	*
3260.0500	-13	-39.39	*
4075.0625	-13	-34.71	-37.65
4890.0750	-13	-31.06	-38.08
5705.0875	-13	-35.58	*
6520.1000	-13	*	*
7335.1125	-13	*	*
8150.1250	-13	*	*



**Figure 6G-16: 3.6W 815.0125 MHz, 25 kHz Channel Spacing**

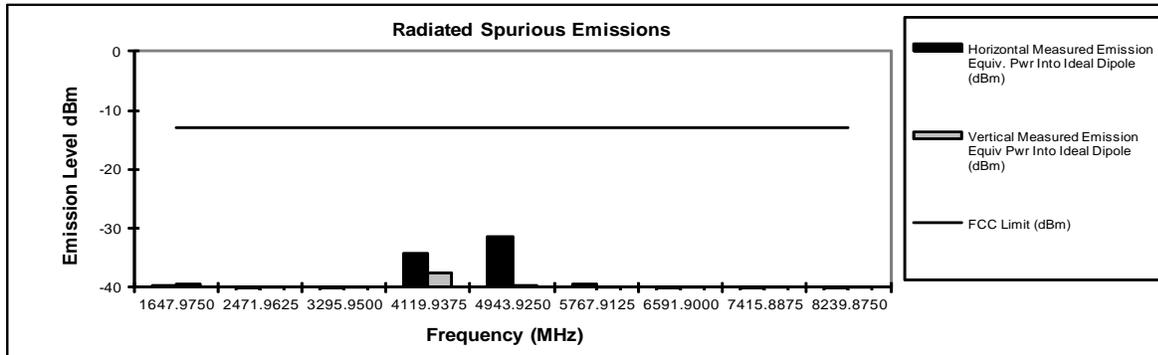
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**823.9875 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)
1647.9750	-13	-39.76	-39.33
2471.9625	-13	*	*
3295.9500	-13	*	*
4119.9375	-13	-34.09	-37.60
4943.9250	-13	-31.33	-39.62
5767.9125	-13	-39.40	*
6591.9000	-13	*	*
7415.8875	-13	*	*
8239.8750	-13	*	*



**Figure 6G-17: 3.6W 823.9875 MHz, 25 kHz Channel Spacing**

**Motorola Solutions**

**FCC ID: AZ489FT7057 / IC ID: 109U-89FT7057**

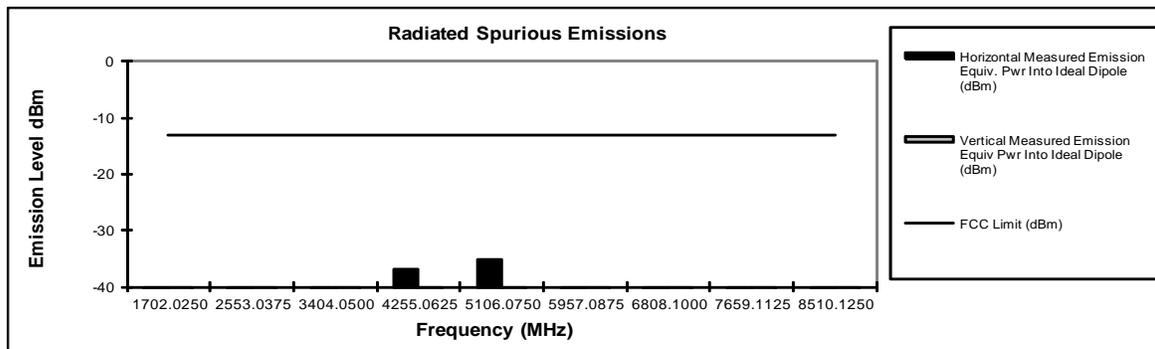
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**851.0125 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)
1702.0250	-13	*	*
2553.0375	-13	*	*
3404.0500	-13	*	*
4255.0625	-13	-36.80	*
5106.0750	-13	-35.22	*
5957.0875	-13	*	*
6808.1000	-13	*	*
7659.1125	-13	*	*
8510.1250	-13	*	*



**Figure 6G-18: 3.6W 851.0125 MHz, 25 kHz Channel Spacing**

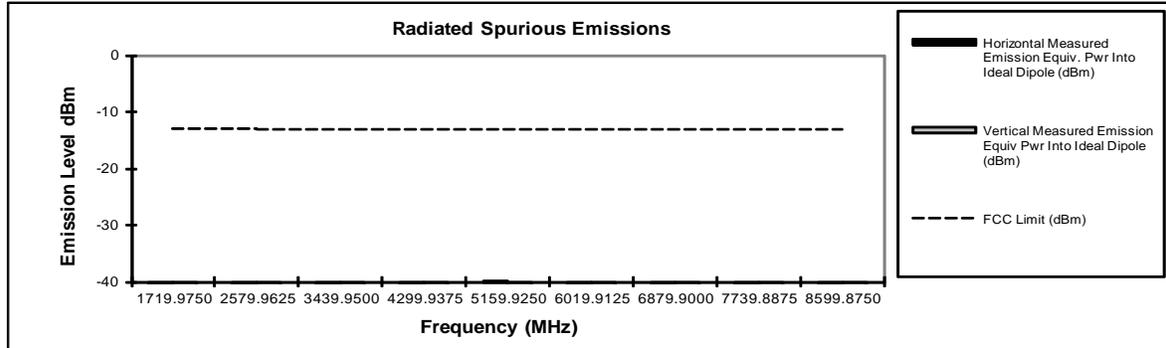
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**859.9875 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1719.9750	-13	*	*
2579.9625	-13	*	*
3439.9500	-13	*	*
4299.9375	-13	*	*
5159.9250	-13	-39.88	*
6019.9125	-13	*	*
6879.9000	-13	*	*
7739.8875	-13	*	*
8599.8750	-13	*	*



**Figure 6G-19: 3.6W 859.9875 MHz, 25 kHz Channel Spacing**

**Motorola Solutions**

**FCC ID: AZ489FT7057 / IC ID: 109U-89FT7057**

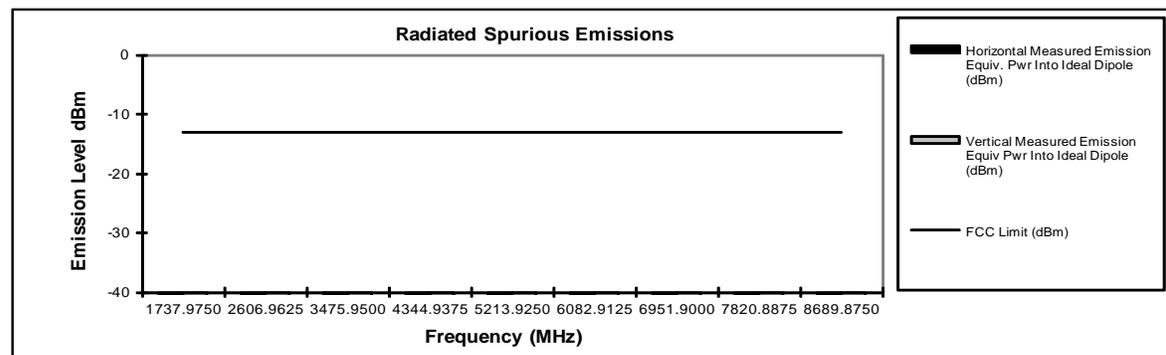
**Transmit Radiated Spurious Emissions: APX1000 7/800**

**Tx Power: 3.6 Watts**

**868.9875 MHz**

**Channel Spacing 25kHz | S/N 536TPX0000**

Frequency (MHz)	FCC Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1737.9750	-13	*	*
2606.9625	-13	*	*
3475.9500	-13	*	*
4344.9375	-13	*	*
5213.9250	-13	*	*
6082.9125	-13	*	*
6951.9000	-13	*	*
7820.8875	-13	*	*
8689.8750	-13	*	*



**Figure 6G-20: 3.6W 868.9875 MHz, 25 kHz Channel Spacing**

**EXHIBIT 6H - 1559-1610MHz Radiated Emissions (GNSS)**

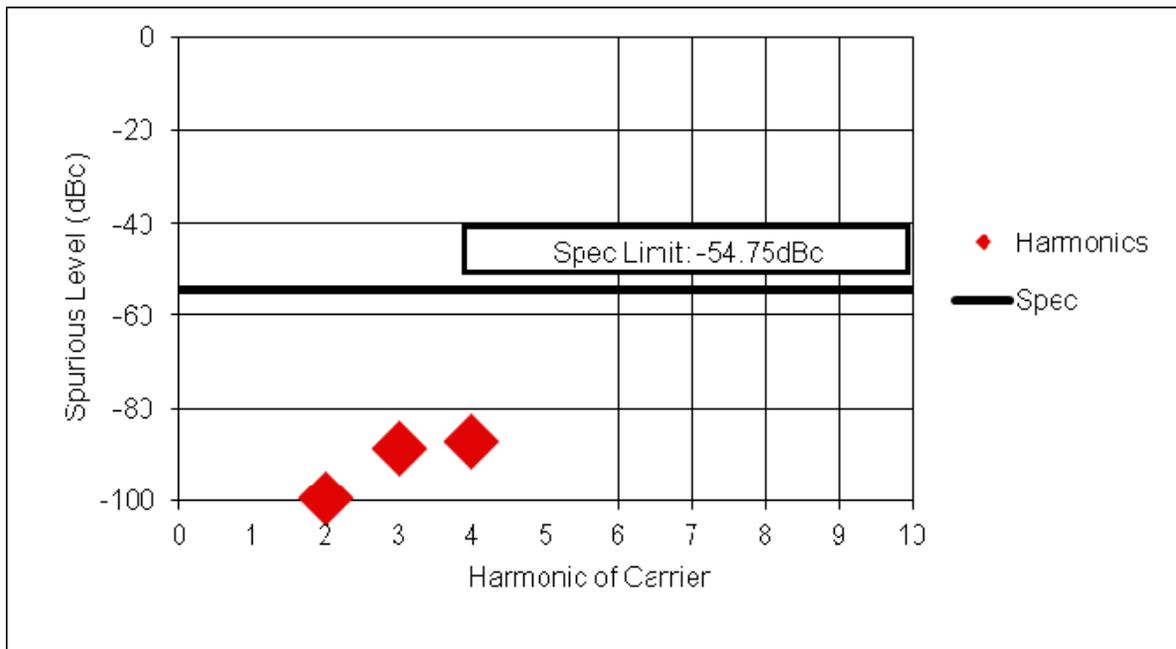
<b>GNSS Testing</b>			
<b>At 10 Meters ERP, ADD +2.15 dB for EIRP</b>			
Date:	4/23/2014	EMC#:	EMC12042013-234
Product:	APX1000	S/N	536TPX0000
		Temp:	78F 62%
		Channel Spacing:	12.5kHz
		Notes:	GNSS
Tx Freq.	805.0000		
		Horizontal Radiated	Vertical Radiated
		Spur. Emiss. (dBm)	Spur. Emiss. (dBm)
Spur	Frequency MHz		
2XFund	1610.0000	-49.65	-48.40

Figure 6H-1: Max Power 805.0000 MHz, 12.5 kHz Channel Spacing

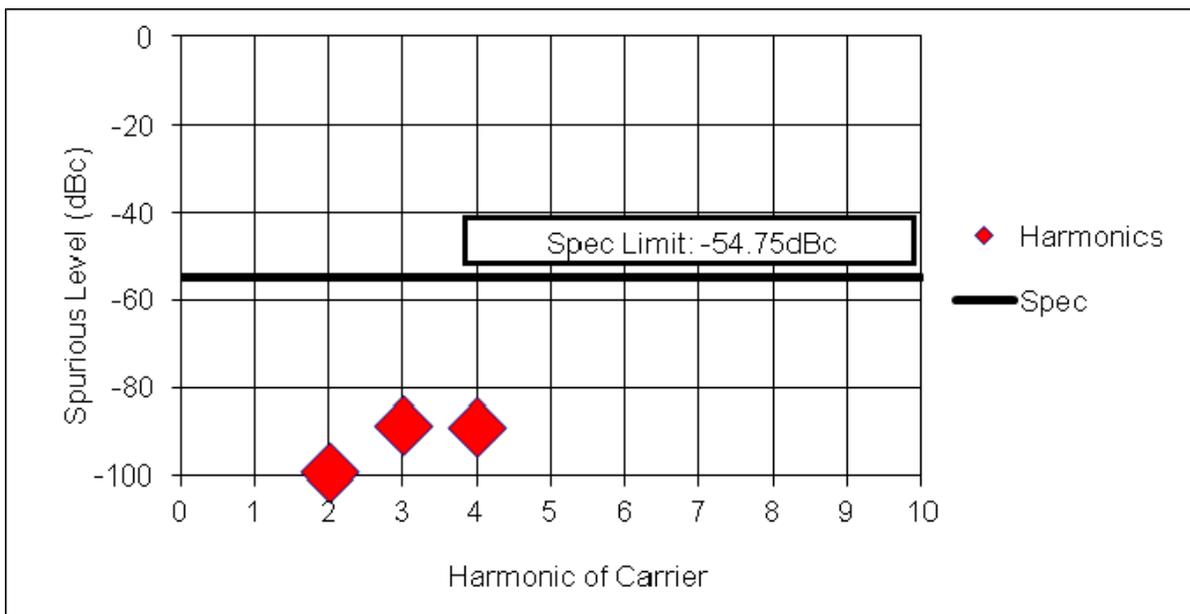
<b>GNSS Testing</b>			
<b>At 10 Meters ERP, ADD +2.15 dB for EIRP</b>			
Date:	4/23/2014	EMC#:	EMC12042013-234
Product:	APX1000	S/N	536TPX0000
		Temp:	78F 62%
		Channel Spacing:	25kHz
		Notes:	GNSS
Tx Freq.	805.0000		
		Horizontal Radiated	Vertical Radiated
		Spur. Emiss. (dBm)	Spur. Emiss. (dBm)
Spur	Frequency MHz		
2XFund	1610.0000	-50.89	-49.84

Figure 6H-2: Max Power 805.0000 MHz, 25 kHz Channel Spacing

**EXHIBIT 6I - Conducted Spurious Emissions**



**Figure 6I-1: 2.99W, 769.0125 MHz, 12.5 kHz Channel Spacing**



**Figure 6I-2: 2.99W, 774.9875 MHz, 12.5 kHz Channel Spacing**

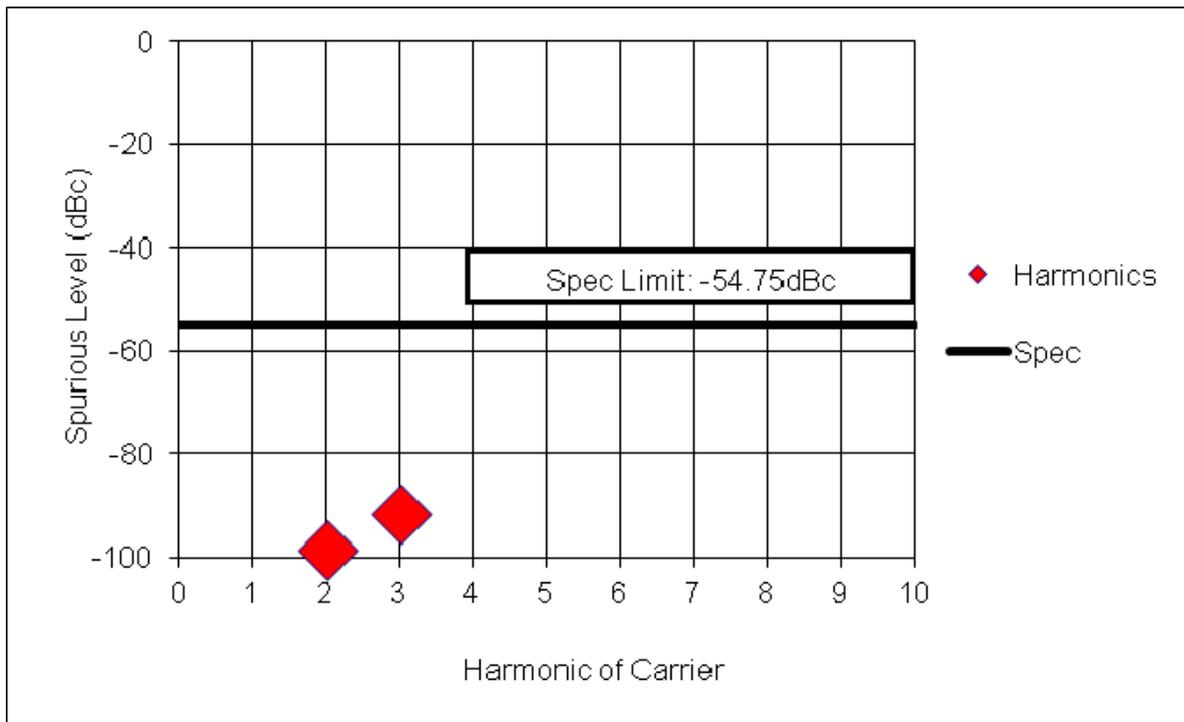


Figure 6I-3: 2.99W, 799.0125 MHz, 12.5 kHz Channel Spacing

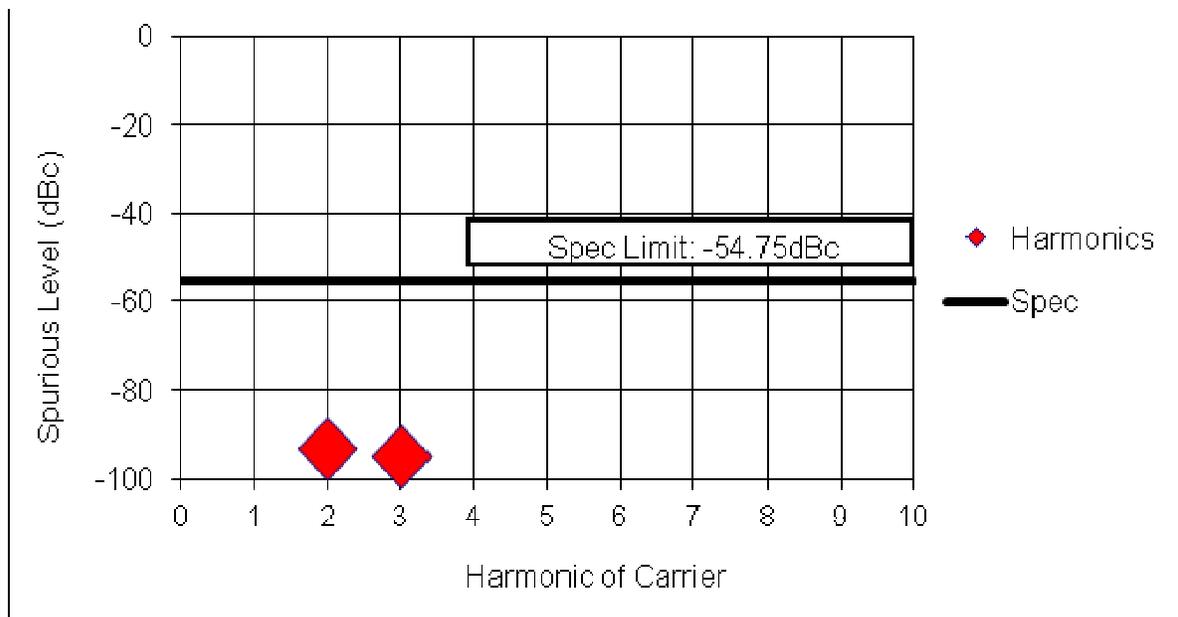


Figure 6I-4: 2.99W, 804.9875 MHz, 12.5 kHz Channel Spacing

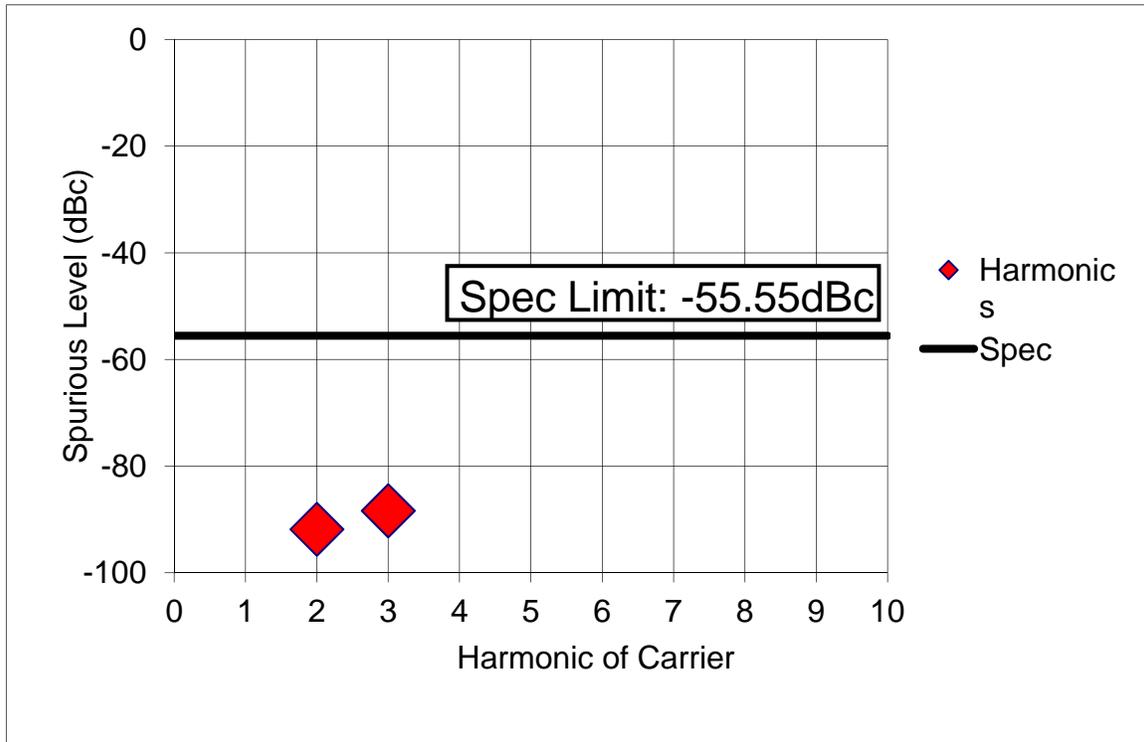


Figure 6I-5: 3.6W, 806.0125 MHz, 12.5 kHz Channel Spacing

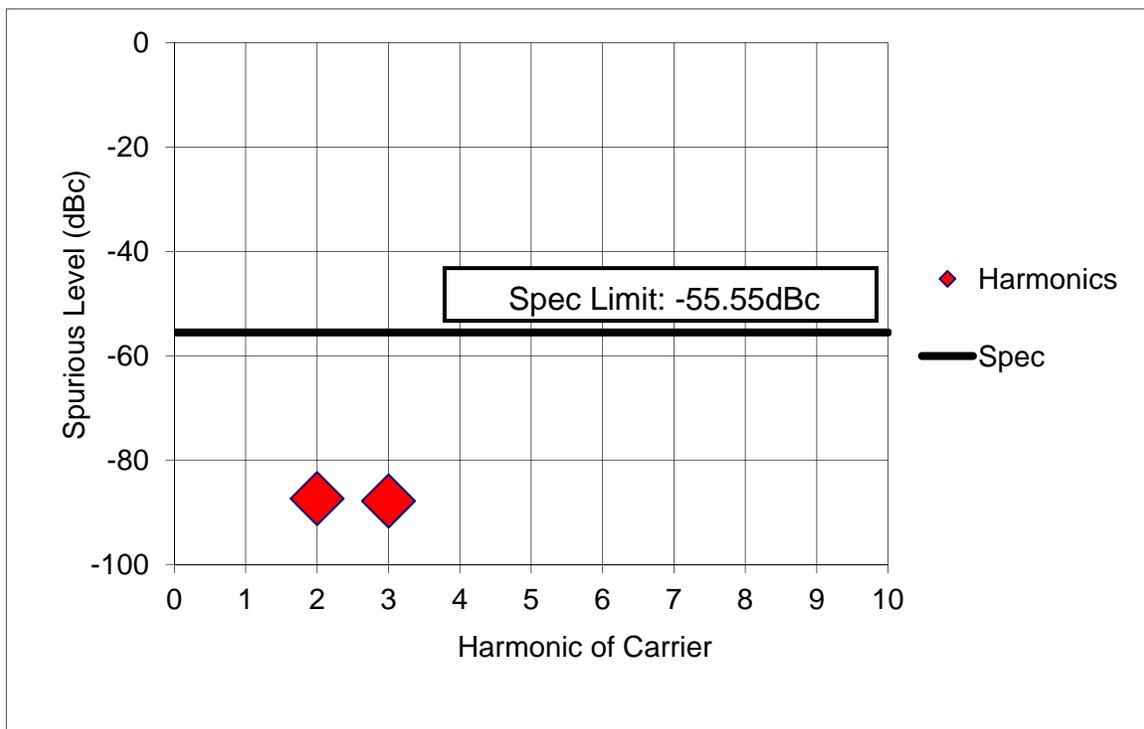


Figure 6I-6: 3.6W, 815.0125 MHz 12.5 kHz Channel Spacing

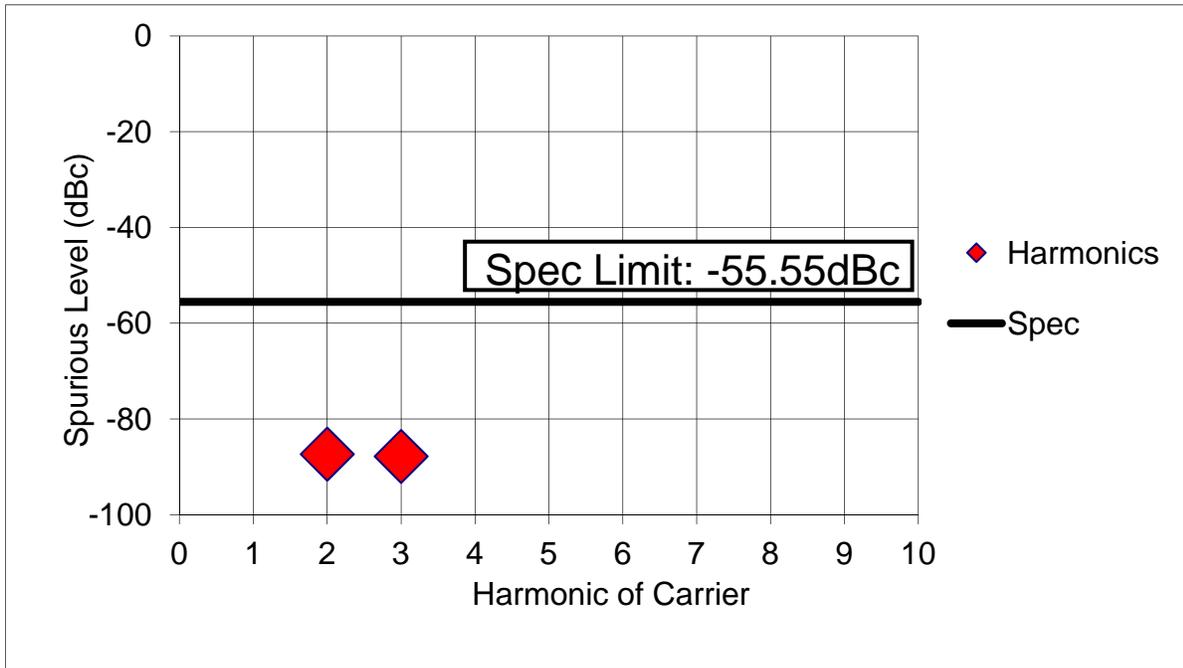


Figure 6I-7: 3.6W, 823.9875 MHz, 12.5 kHz Channel Spacing

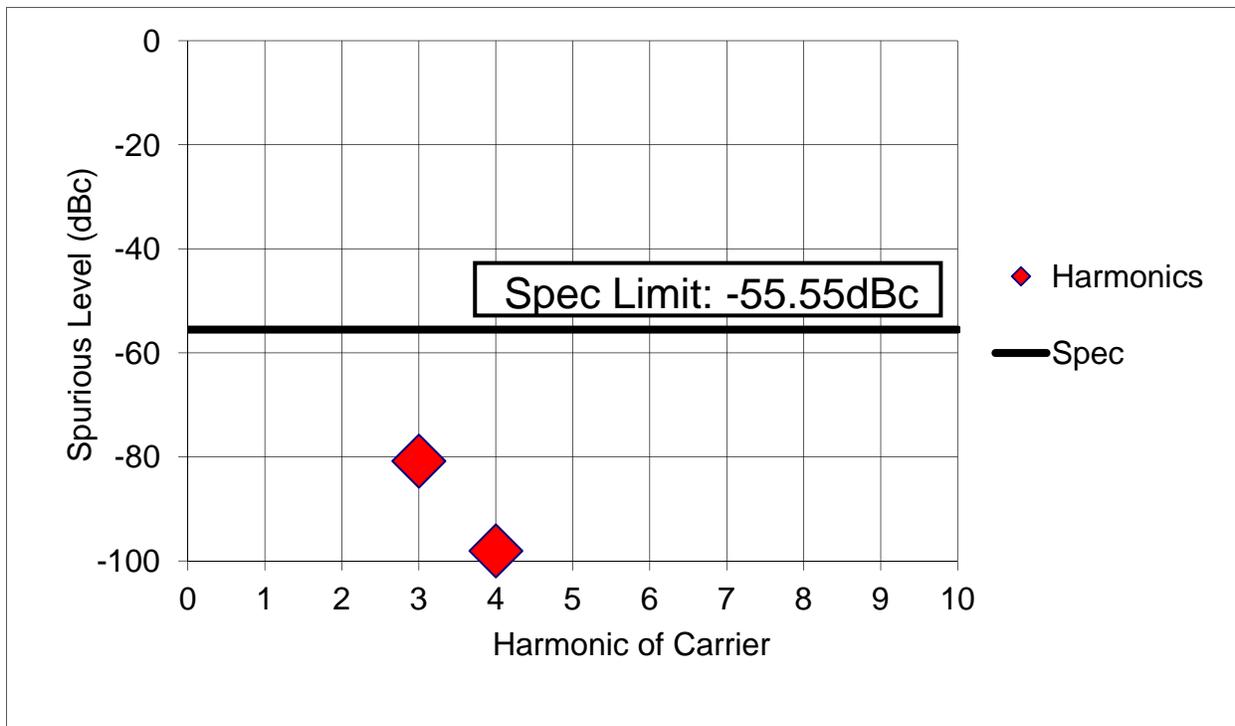


Figure 6I-8: 3.6W, 851.0125 MHz, 12.5 kHz Channel Spacing

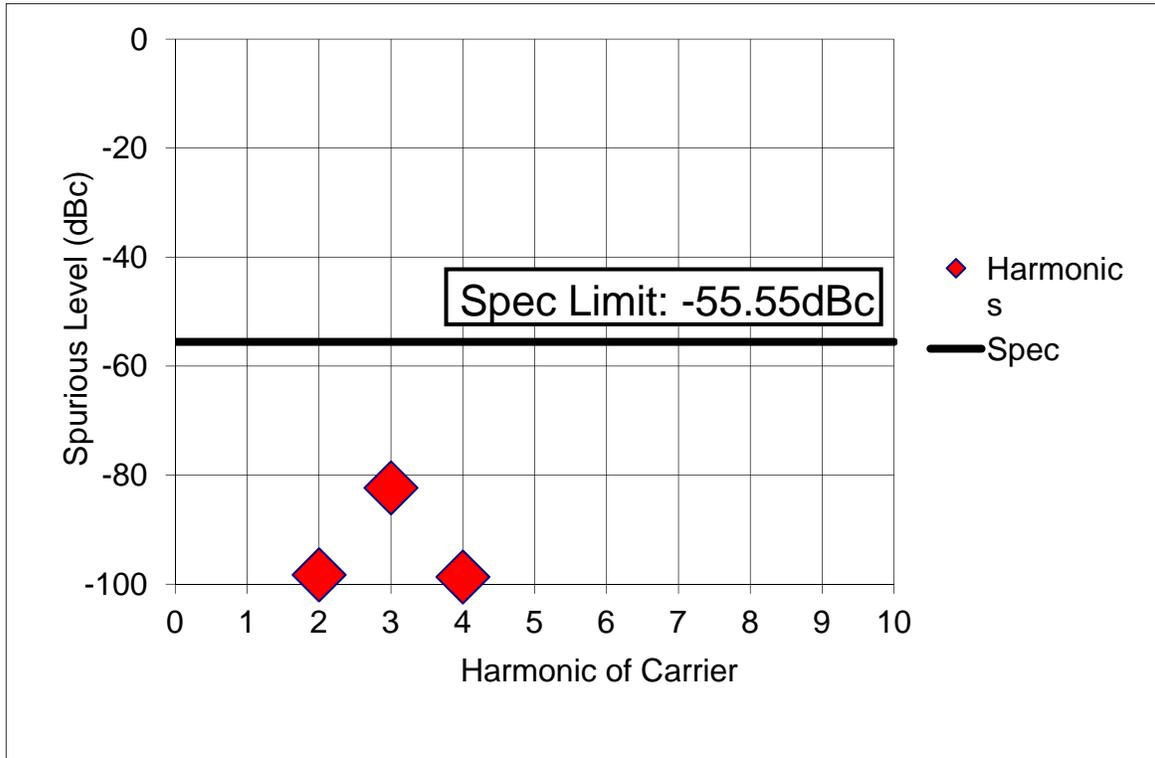


Figure 6I-9: 3.6W, 859.9875 MHz, 12.5 kHz Channel Spacing

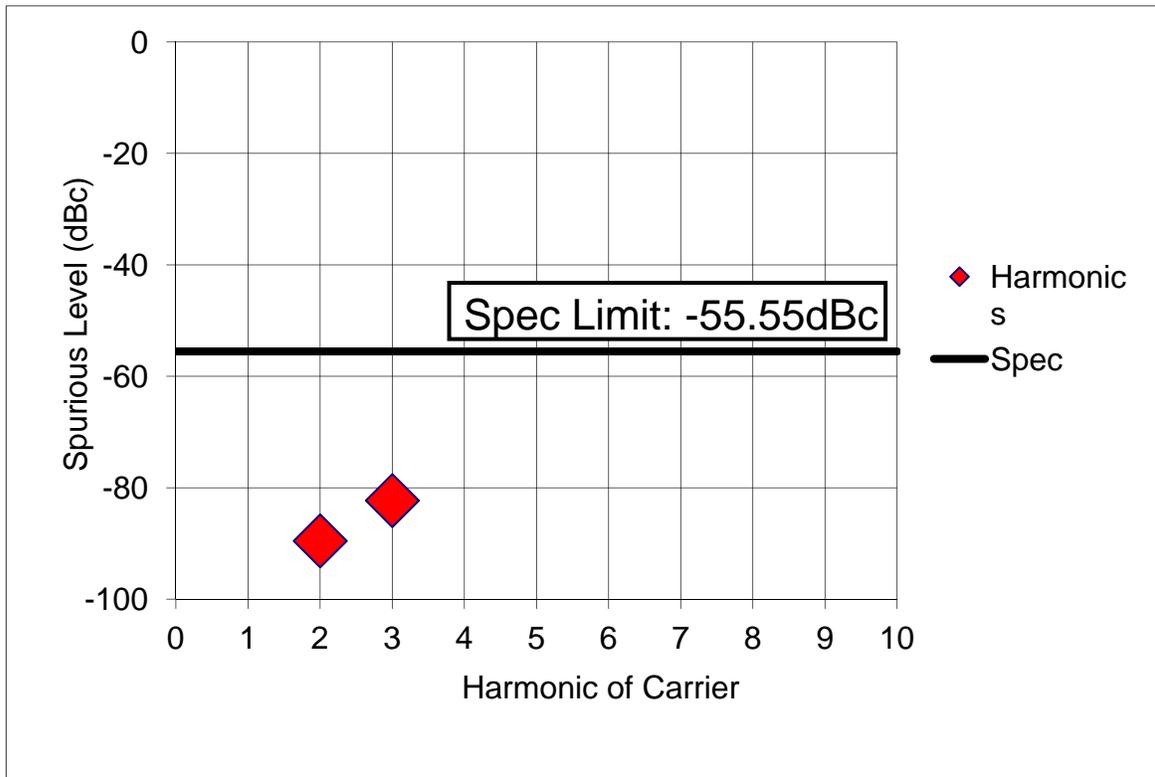
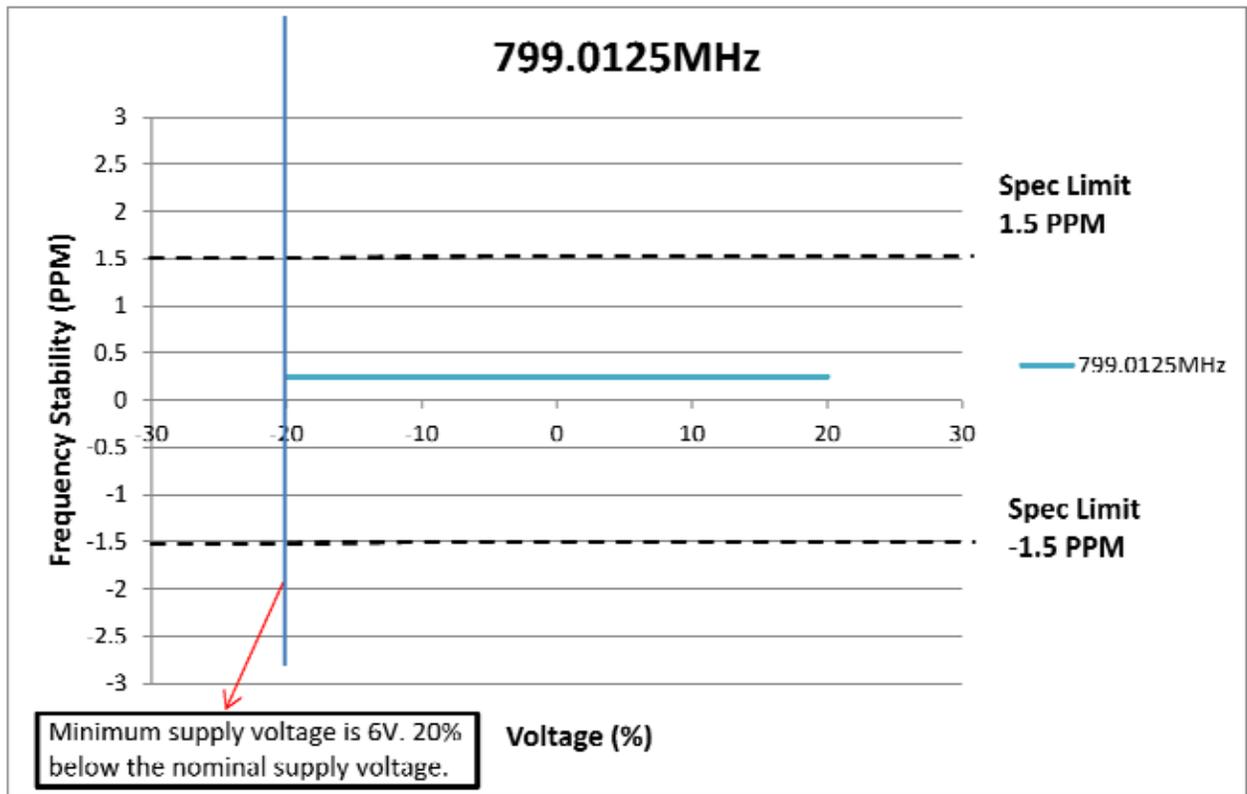
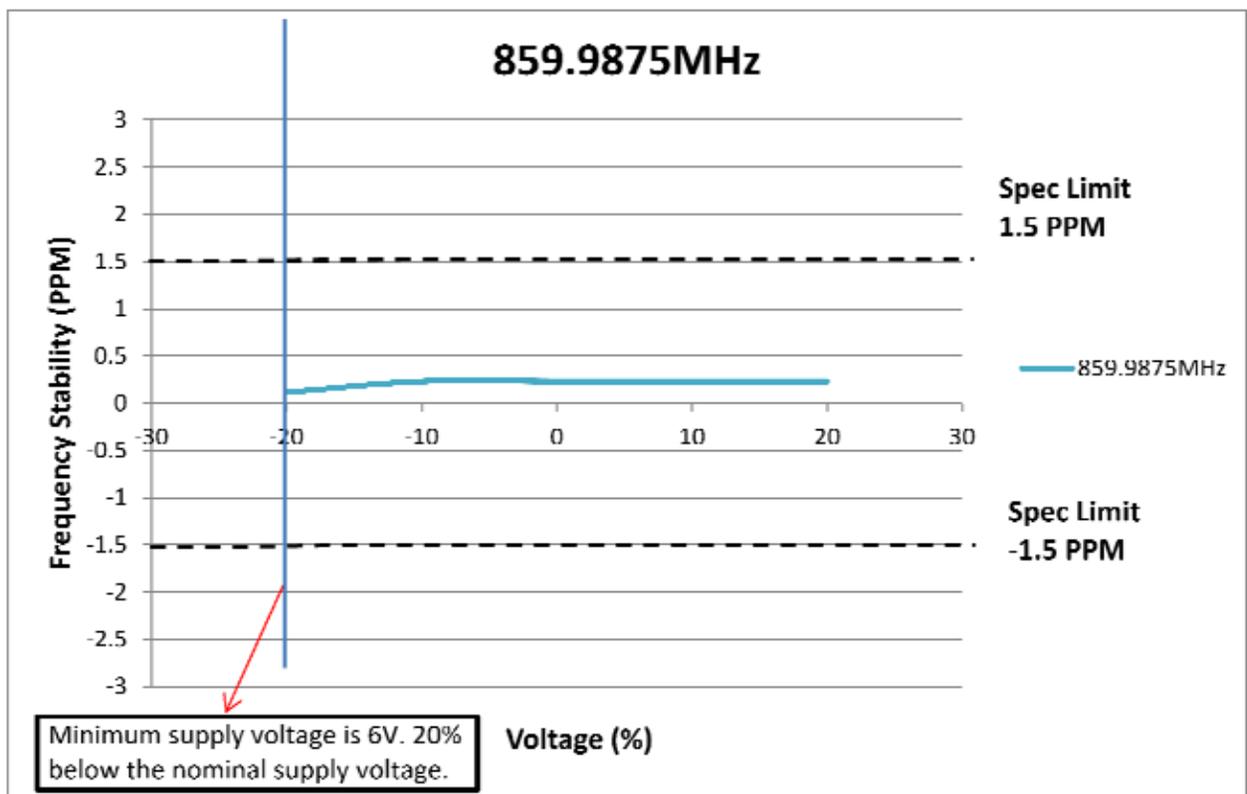


Figure 6I-10: 3.6W, 868.9875 MHz, 12.5 kHz Channel Spacing

**EXHIBIT 6K – Frequency Stability (Volt/Temp)**



**Figure 6K-1: 1.5 PPM Frequency Stability vs. Supply Voltage**



**Figure 6K-2: 1.5 PPM Frequency Stability vs. Supply Voltage**

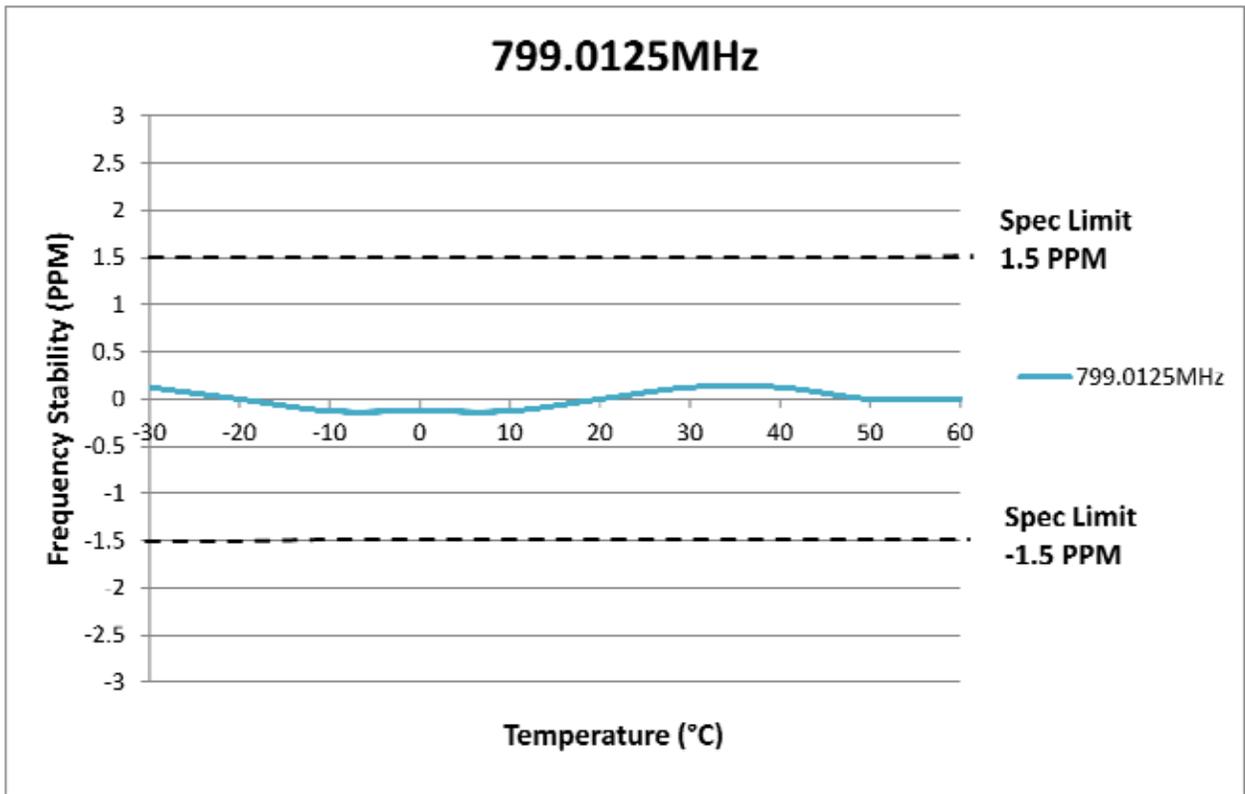


Figure 6K-3: 1.5 PPM Frequency Stability vs. Temperature

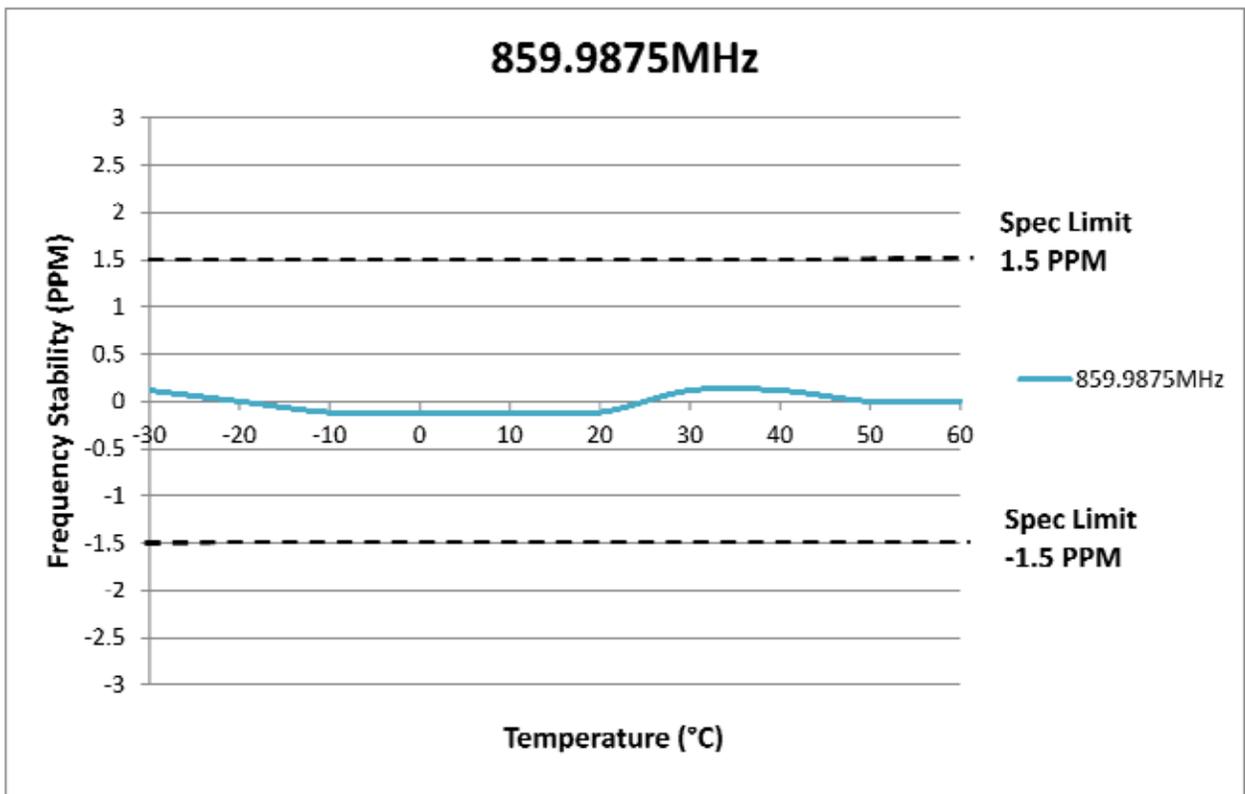


Figure 6K-4: 1.5 PPM Frequency Stability vs. Temperature