

EXHIBIT 6

INDEX OF SUBMITTED MEASURED DATA

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

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6F-1: 2.4W, Harmonic of Carrier 806.0125 MHz, 12.5 kHz Channel Spacing
6F-2: 2.4W, Harmonic of Carrier 814.9875 MHz, 12.5 kHz Channel Spacing
6F-3: 2.4W, Harmonic of Carrier 823.9875 MHz, 12.5 kHz Channel Spacing
6F-4: 2.4W, Harmonic of Carrier 851.0125 MHz, 12.5 kHz Channel Spacing
6F-5: 2.4W, Harmonic of Carrier 860.0125 MHz, 12.5 kHz Channel Spacing
6F-6: 2.4W, Harmonic of Carrier 868.9875 MHz, 12.5 kHz Channel Spacing

EXHIBIT 6G – Transmit Radiated Spurious Emissions

- 6G-1: 2.4W, Harmonic of Carrier 806.0125 MHz, 12.5 kHz Channel Spacing
- 6G-2: 2.4W, Harmonic of Carrier 814.9875 MHz, 12.5 kHz Channel Spacing
- 6G-3: 2.4W, Harmonic of Carrier 823.9875 MHz, 12.5 kHz Channel Spacing
- 6G-4: 2.4W, Harmonic of Carrier 851.0125 MHz, 12.5 kHz Channel Spacing
- 6G-5: 2.4W, Harmonic of Carrier 860.0125 MHz, 12.5 kHz Channel Spacing
- 6G-6: 2.4W, Harmonic of Carrier 868.9875 MHz, 12.5 kHz Channel Spacing

EXHIBIT 6H - Frequency Stability

- 6H-1 – 1.5 ppm Frequency Stability vs. Temperature (823.9875 MHz)
- 6H-2 – 1.5 ppm Frequency Stability vs. Supply Voltage (823.9875 MHz)

** Please note that the above data were taken following the procedures and limits outlined in TIA 603-D and RSS 119 during the month of November 2015. See Table 2 in Ex07_test procedures

Radio model tested: AAH81VCN9TB2AN

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= 806.0125 MHz:

Output RF power	2.48 Watts
DC Voltage	3.70 Volts
DC Current	2.14 Amps
Output RF power	1.19 Watts
DC Voltage	3.70 Volts
DC Current	1.28 Amps

Frequency= 814.9875 MHz:

Output RF power	2.44 Watts
DC Voltage	3.70 Volts
DC Current	2.11 Amps
Output RF power	1.19 Watts
DC Voltage	3.70 Volts
DC Current	1.29 Amps

Frequency = 823.9875 MHz:

Output RF power	2.45 Watts
DC Voltage	3.70 Volts
DC Current	2.11 Amps
Output RF power	1.16 Watts
DC Voltage	3.70 Volts
DC Current	1.27 Amps

Frequency = 851.0125 MHz:

Output RF power	2.43 Watts
DC Voltage	3.70 Volts
DC Current	2.07 Amps
Output RF power	1.15 Watts
DC Voltage	3.70 Volts
DC Current	1.24 Amps

Frequency = 860.0125 MHz:

Output RF power	2.44 Watts
DC Voltage	3.70 Volts
DC Current	2.07 Amps
Output RF power	1.16 Watts
DC Voltage	3.70 Volts
DC Current	1.22 Amps

Frequency = 868.9875 MHz:

Output RF power	2.42 Watts
DC Voltage	3.70 Volts
DC Current	2.07 Amps

Output RF power	1.16 Watts
DC Voltage	3.70 Volts
DC Current	1.22 Amps

EXHIBIT 6B

Transmit Audio Frequency Response

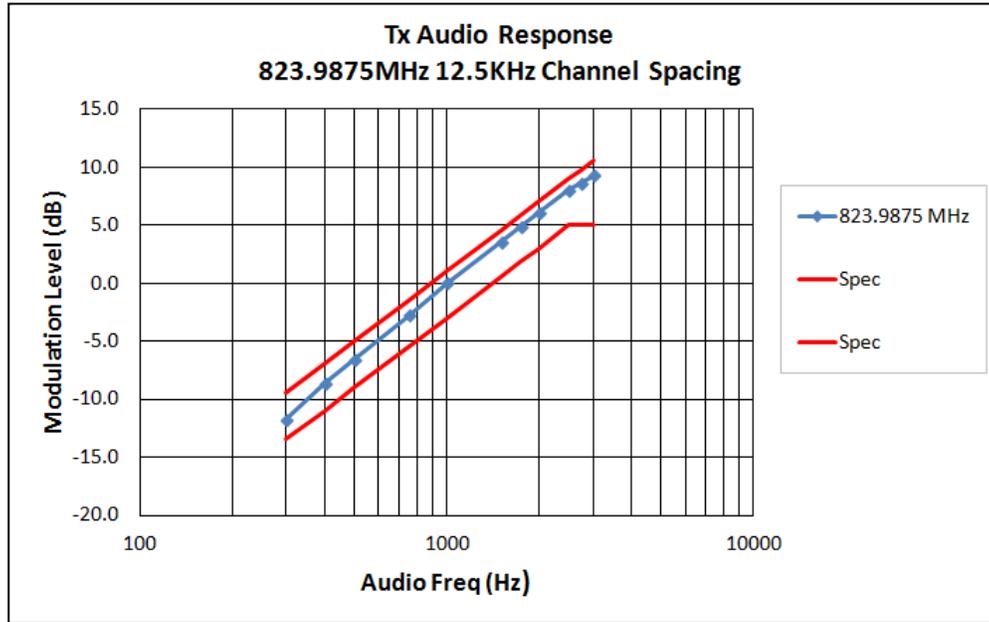


Figure 6B-1: 12.5 kHz Channel Spacing, 823.9875 MHz, Transmit Audio Frequency Response

EXHIBIT 6C

Transmit Audio Low Pass Filter Response

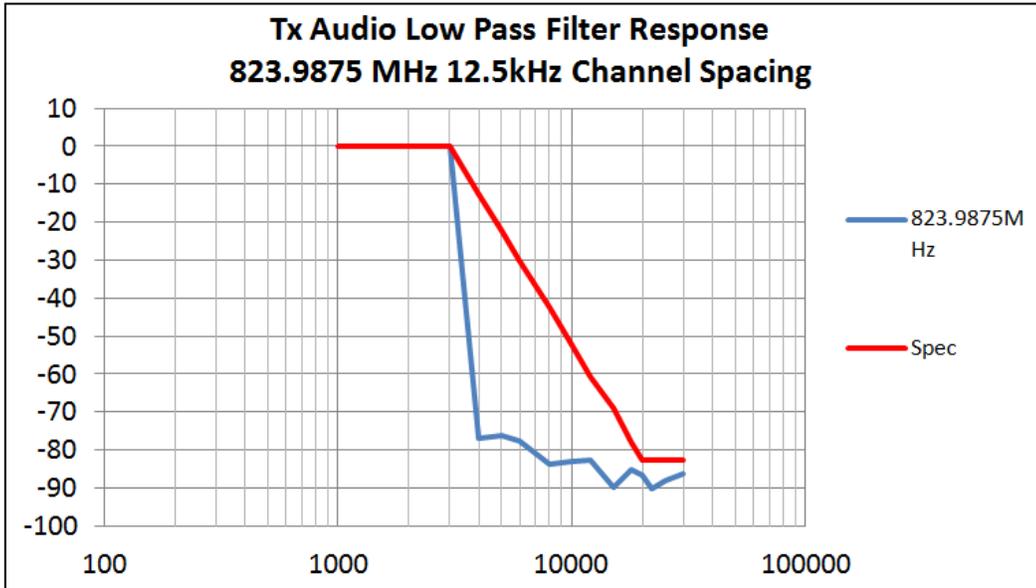


Figure 6C-1: 12.5 kHz Channel Spacing, 823.9875 MHz, Transmit Audio Low Pass Filter Response

EXHIBIT 6D

Modulation Limiting

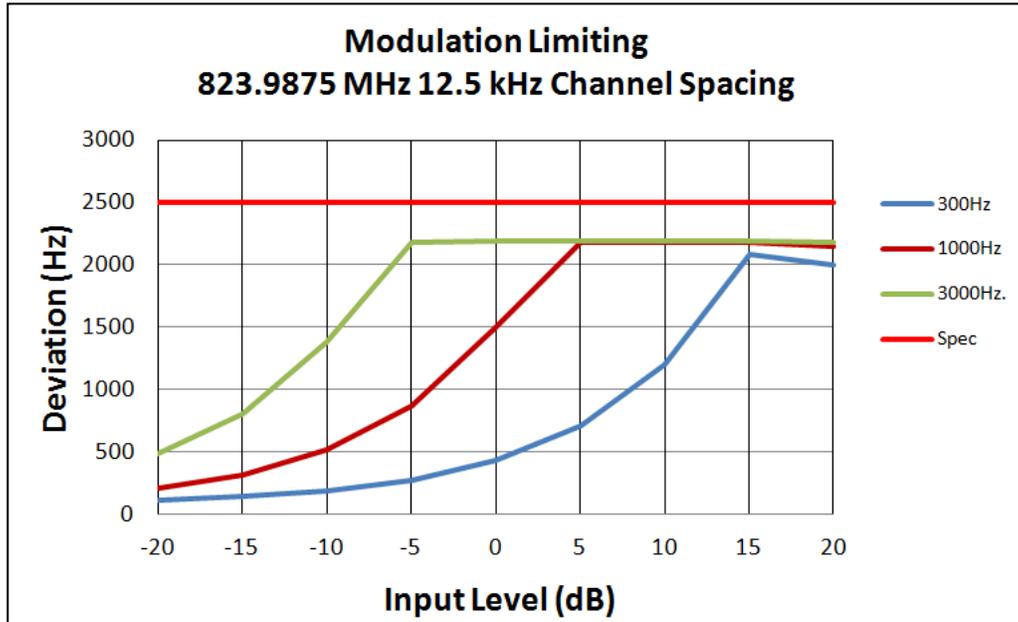


Figure 6D-1: 12.5 kHz Channel Spacing, 823.9875 MHz, Modulation Limiting

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

a) 4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Data)
Emission Designator **7K60F1D**

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore, the 99% energy rule (Title 47 CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (7K60 designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation **F**
A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex **1**
Data Transmission, telemetry, telecommand **D**

The complete emissions designator for this transmitter is **7K60F1D**.

b) 4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Voice)
Emission Designator **7K60F1E**

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (7K60 designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation **F**
A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex **1**
Telephony (including sound broadcasting) **E**

The complete emissions designator for this transmitter is **7K60F1E**.

c) 4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Data)
Emission Designator **7K60FXD**

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore, the 99% energy rule (Title 47 CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (7K60 designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation **F**
Case not otherwise covered **X**
Data Transmission, telemetry, telecommand **D**

The complete emissions designator for this transmitter is **7K60FXD**.

d) 4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Voice)
Emission Designator **7K60FXE**

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (7K60 designator).

Per CFR Title 47, Part 2, Section 2.201:

- Frequency Modulation **F**
- Case not otherwise covered **X**
- Telephony (including sound broadcasting) **E**

The complete emissions designator for this transmitter is **7K60FXE**.

e) Digital (12.5 kHz Channelization, Digital Voice and Data)
Emission Designator **7K60F1W**

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (7K60 designator).

Per CFR Title 47, Part 2, Section 2.201:

- Frequency Modulation **F**
- A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex **1**
- Combination of Data Transmission, telemetry, telecommand (D), and Telephony (E)... **W**

The complete emissions designator for this transmitter is **7K60F1W**.

Occupied Bandwidth Data

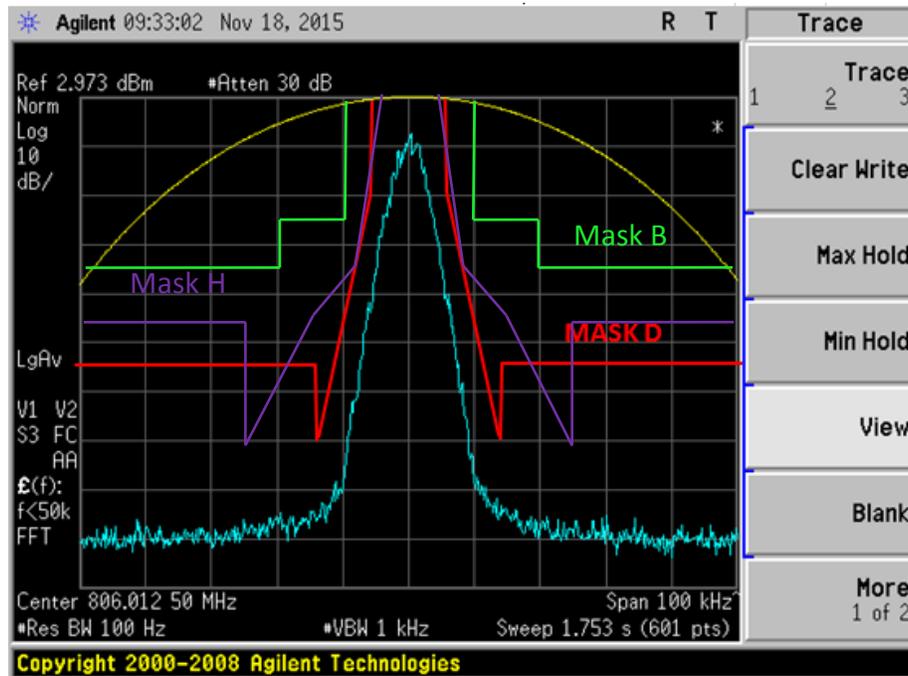


Figure 6E-1: 806.0215 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask B, D, H

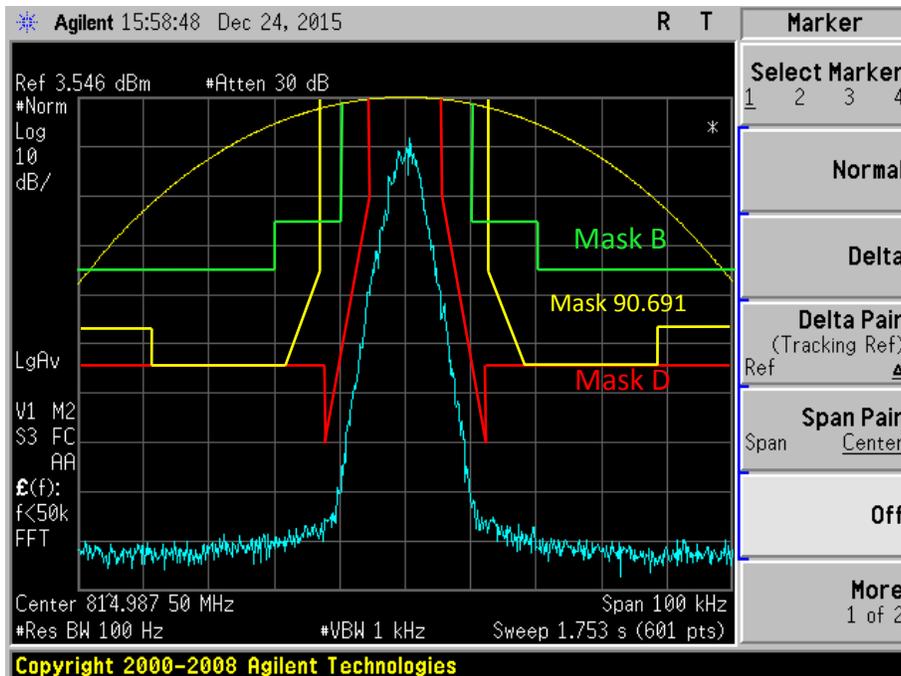


Figure 6E-2: 814.9875 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask B, D, 90.691

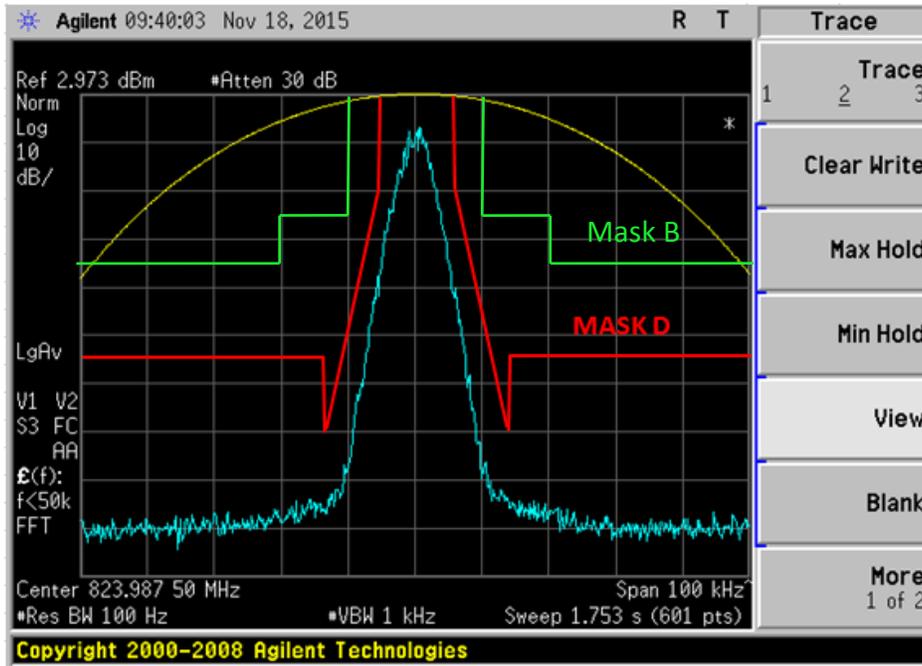


Figure 6E-3: 823.9875 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask B, D

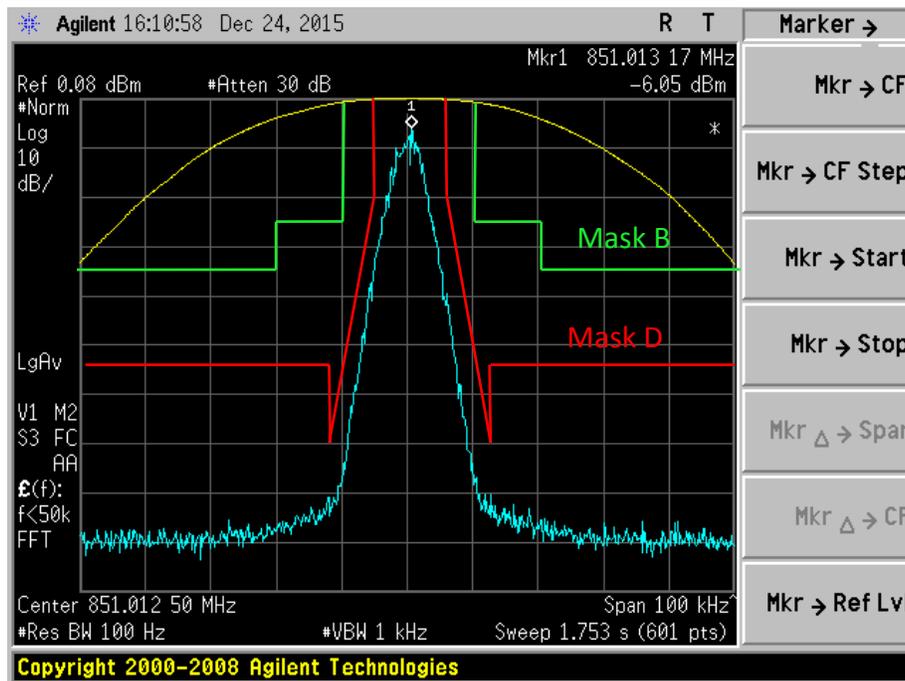


Figure 6E-4: 851.0125 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask B, D

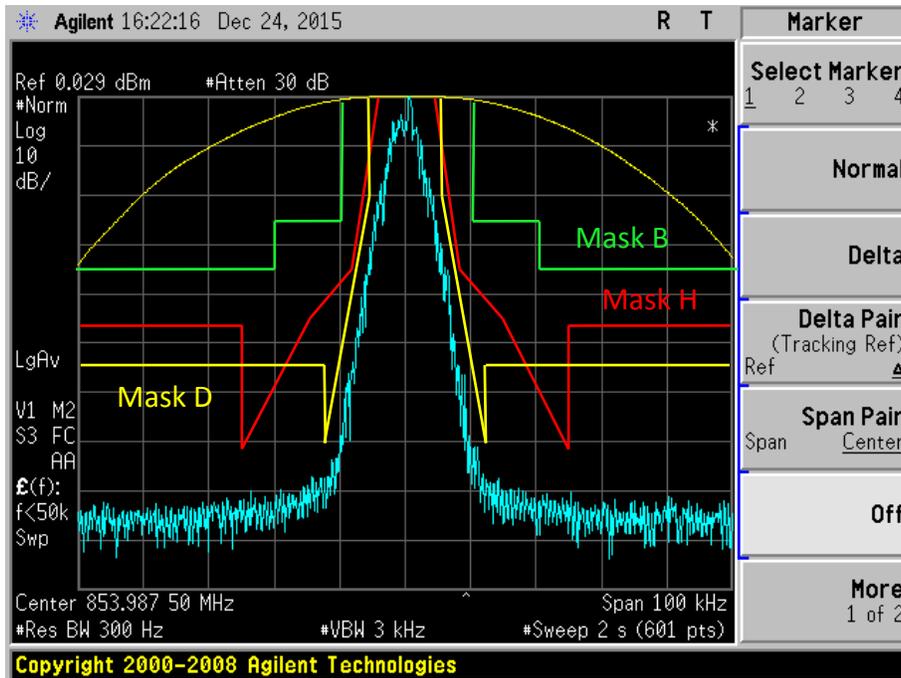


Figure 6E-5: 853.9875 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask B, D, H

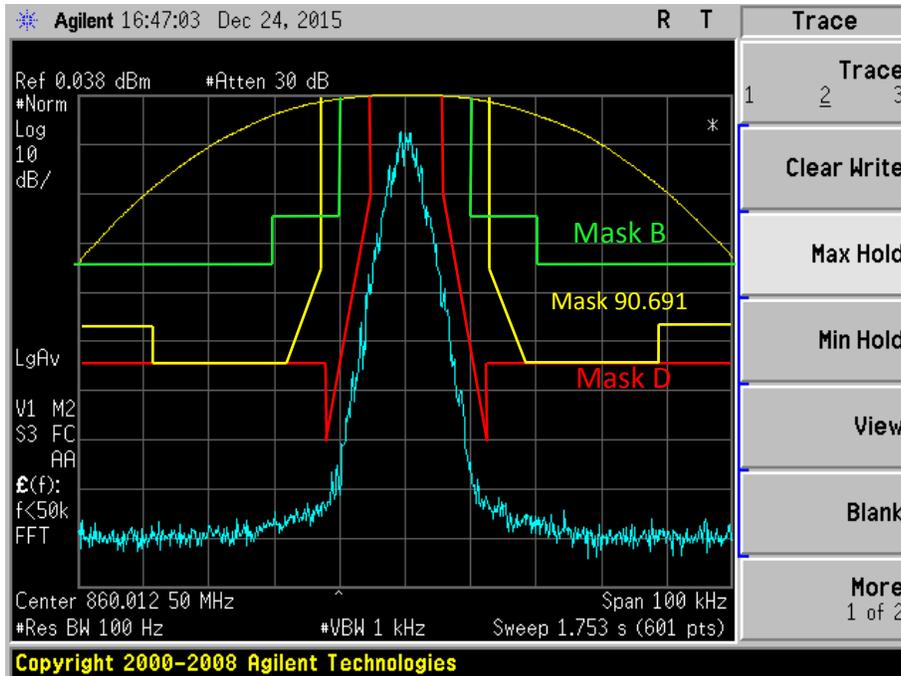


Figure 6E-6: 860.0125 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask B, D, 90.691

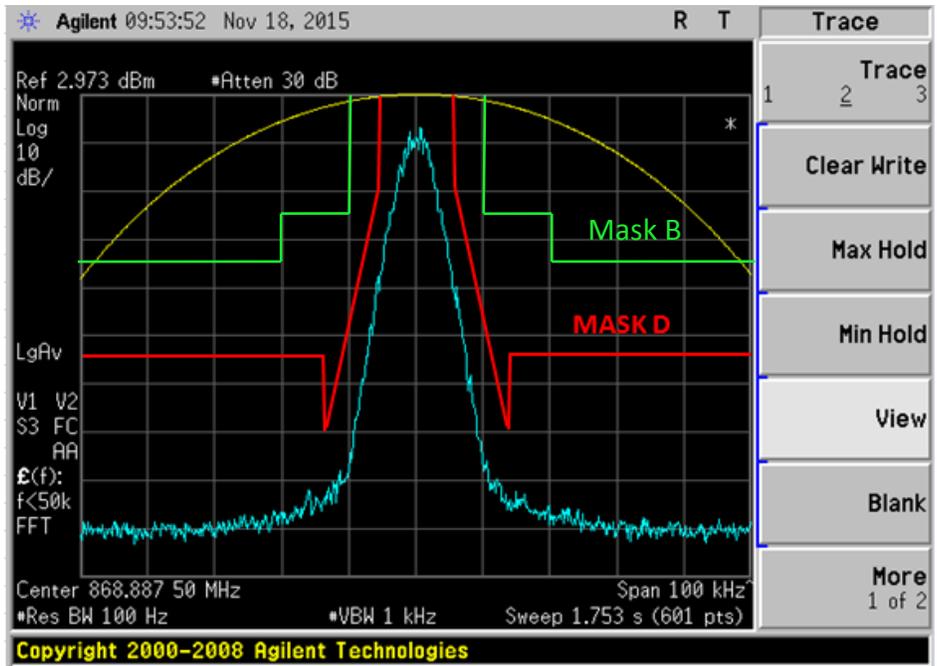


Figure 6E-7: 868.8875 MHz, O.153 Test Pattern 4FSK Voice Modulation Only, 7K60F1E Mask B, D

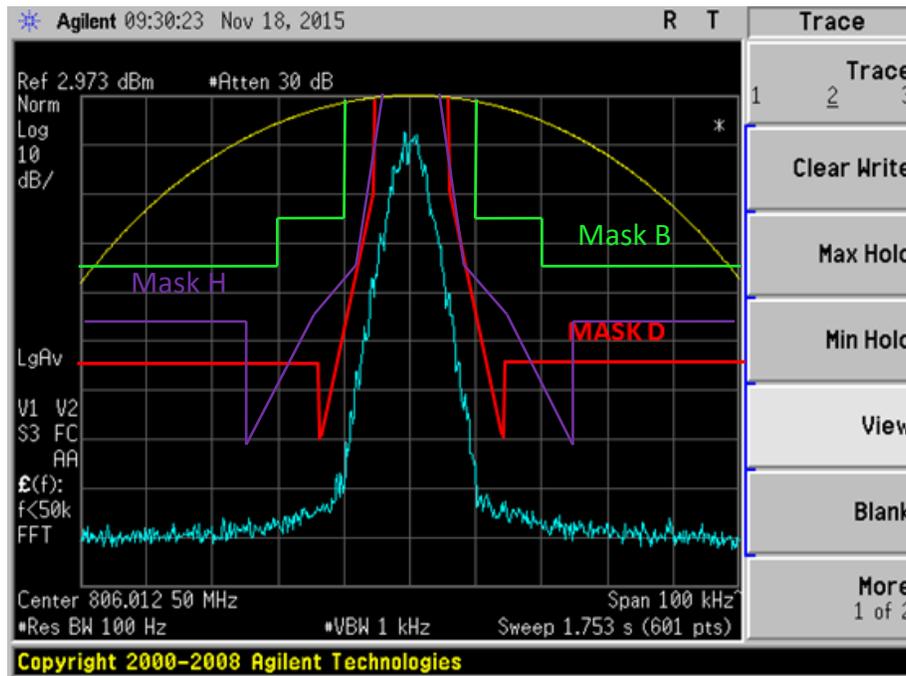


Figure 6E-8: 806.0125 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask B, D, H

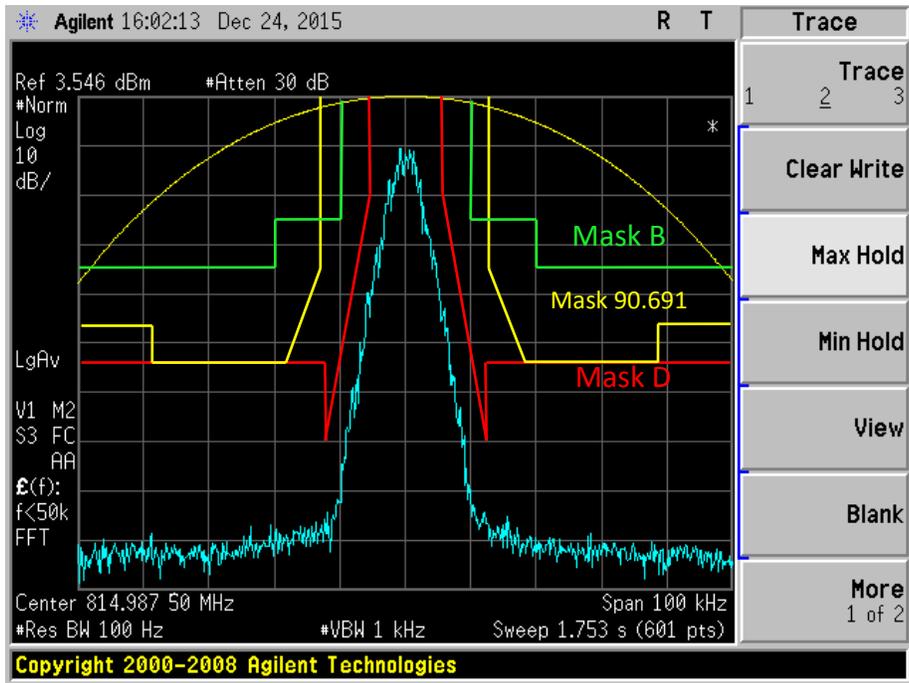


Figure 6E-9: 814.9875 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask B, D, 90.691

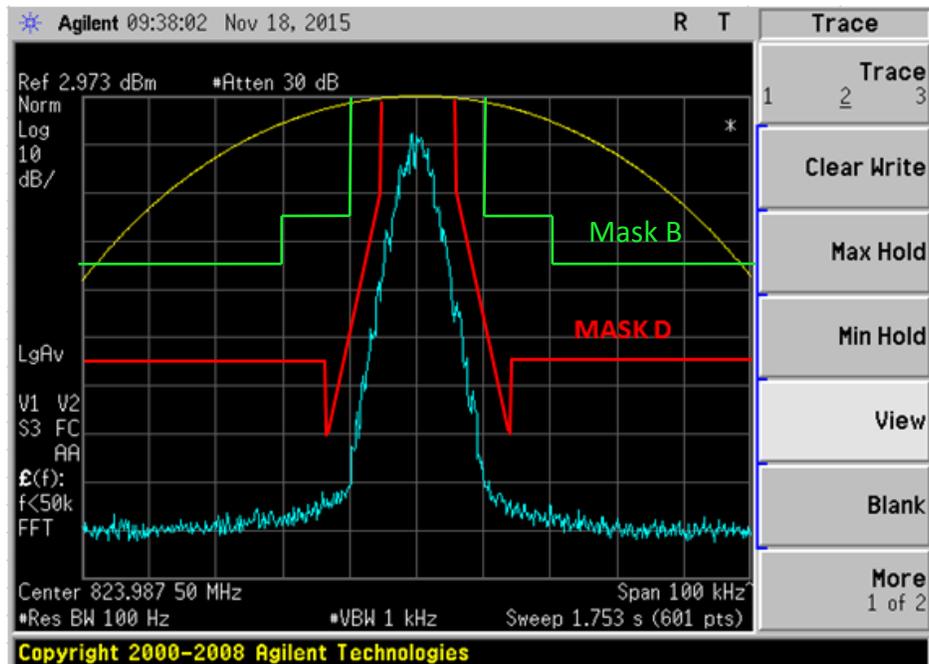


Figure 6E-10: 823.9875 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask B, D

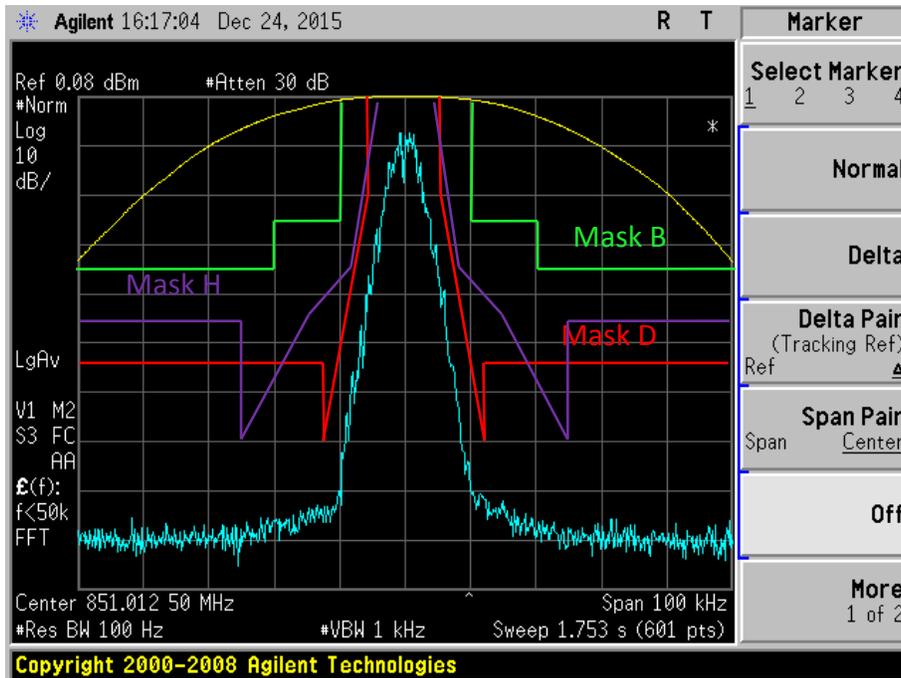


Figure 6E-11: 851.0125 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask B, D, H

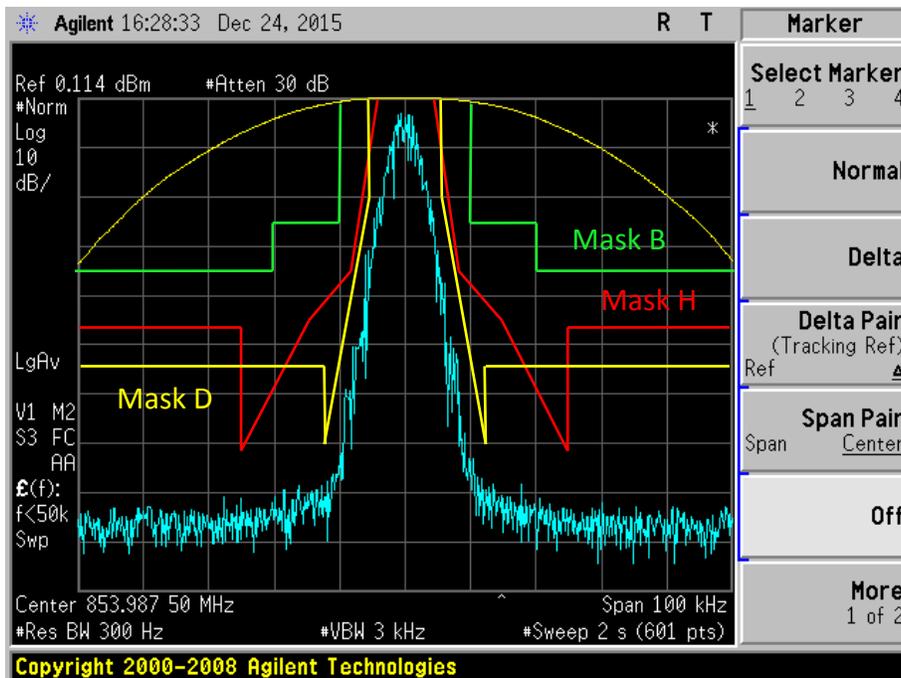


Figure 6E-12: 853.9875 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask B, D, H

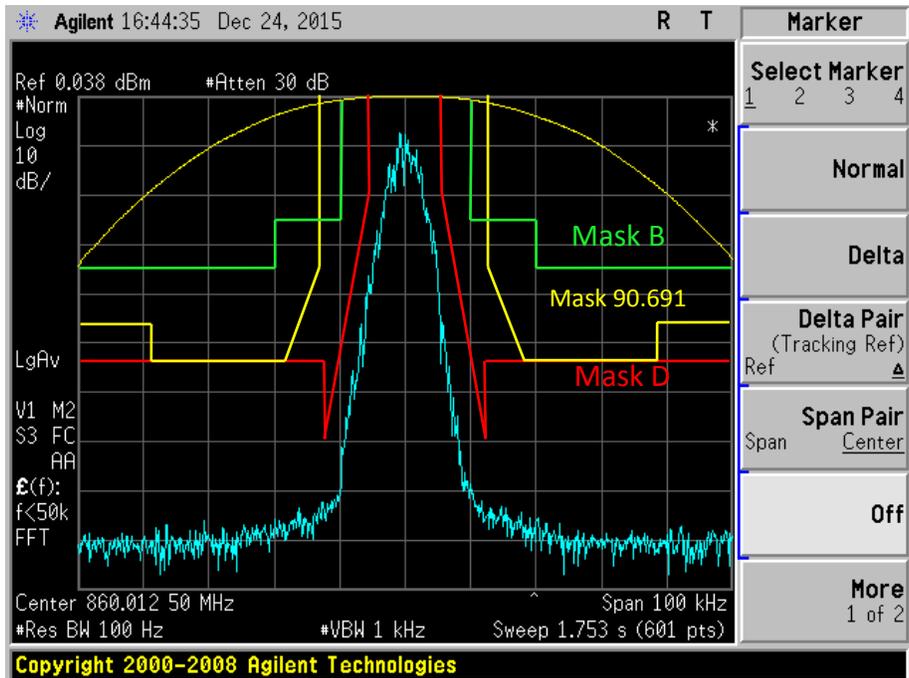


Figure 6E-13: 860.0125 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask B, D, 90.691

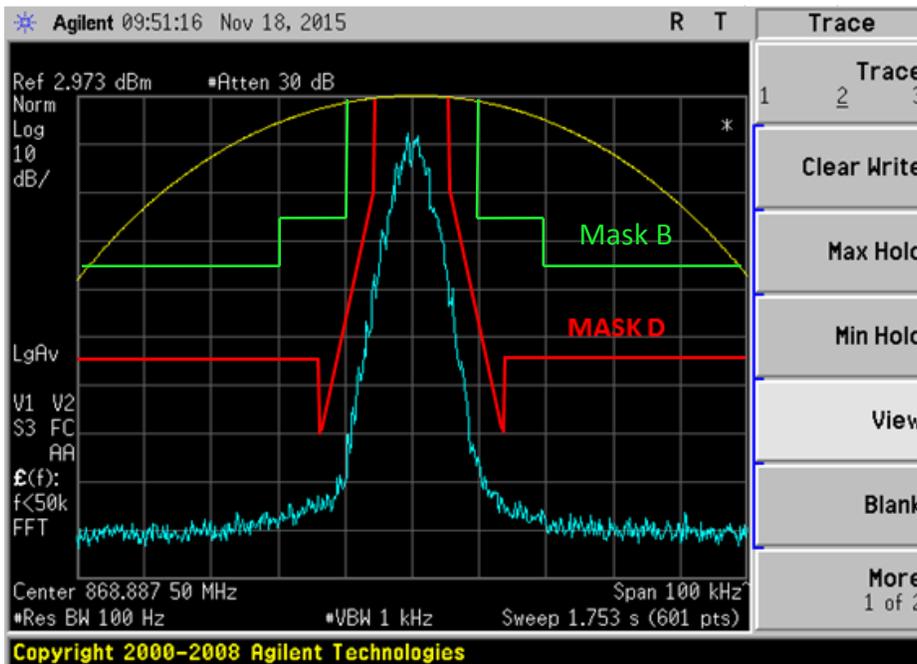


Figure 6E-14: 868.8875 MHz, O.153 Test Pattern 4FSK Data Modulation Only, 7K60F1D Mask B, D

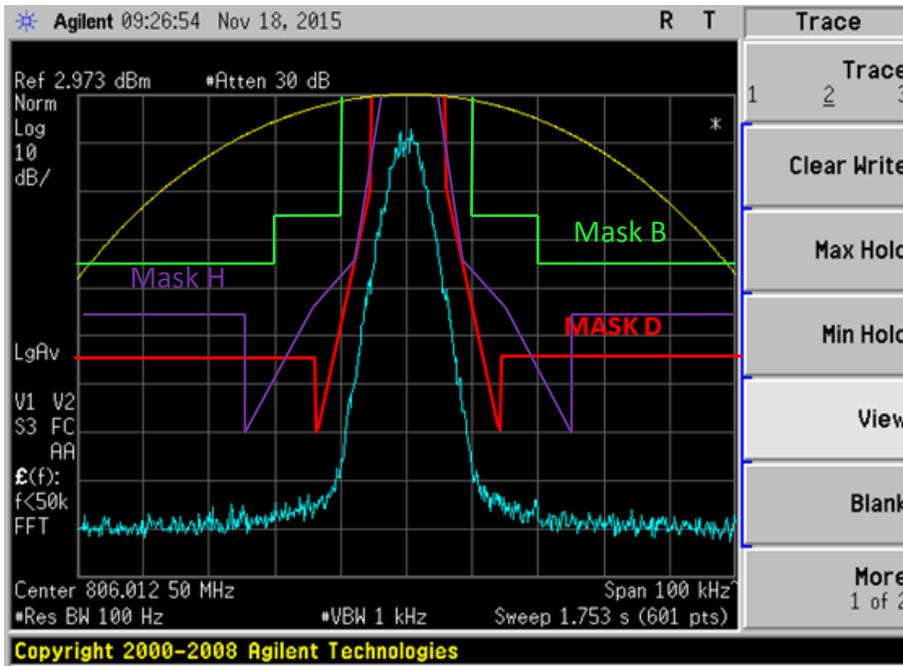


Figure 6E-15: 806.0125 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask B, D, H

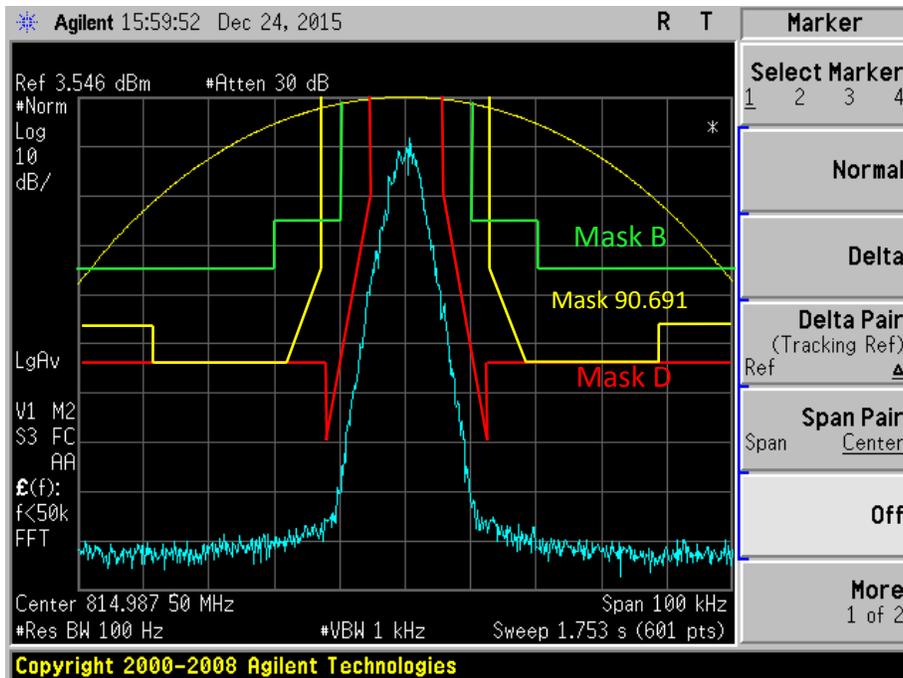


Figure 6E-16: 814.9875 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask B, D, 90.691

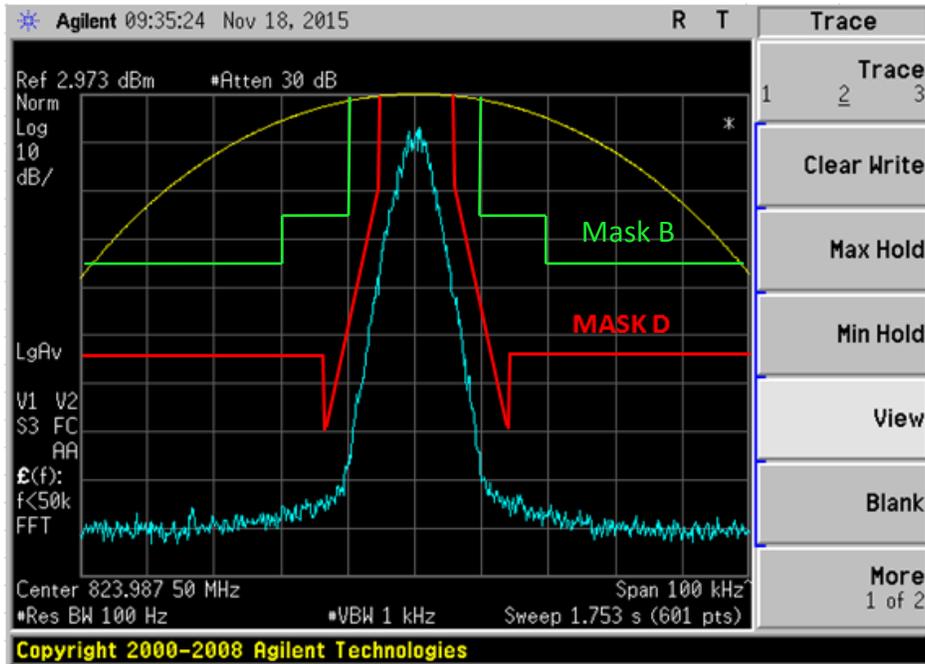


Figure 6E-17: 823.9875 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask B, D

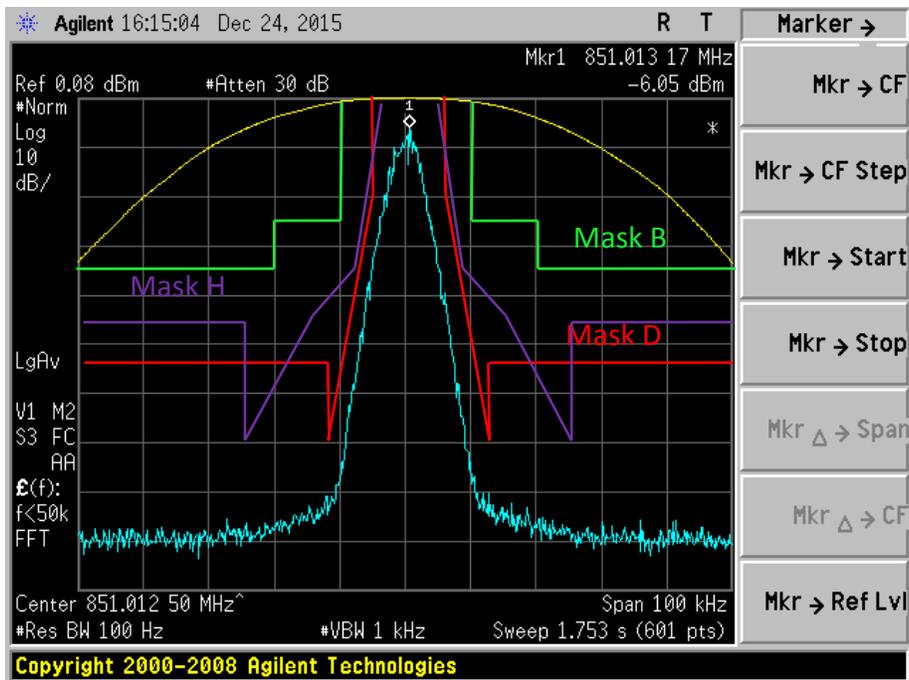


Figure 6E-18: 851.0125 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask B, D, H

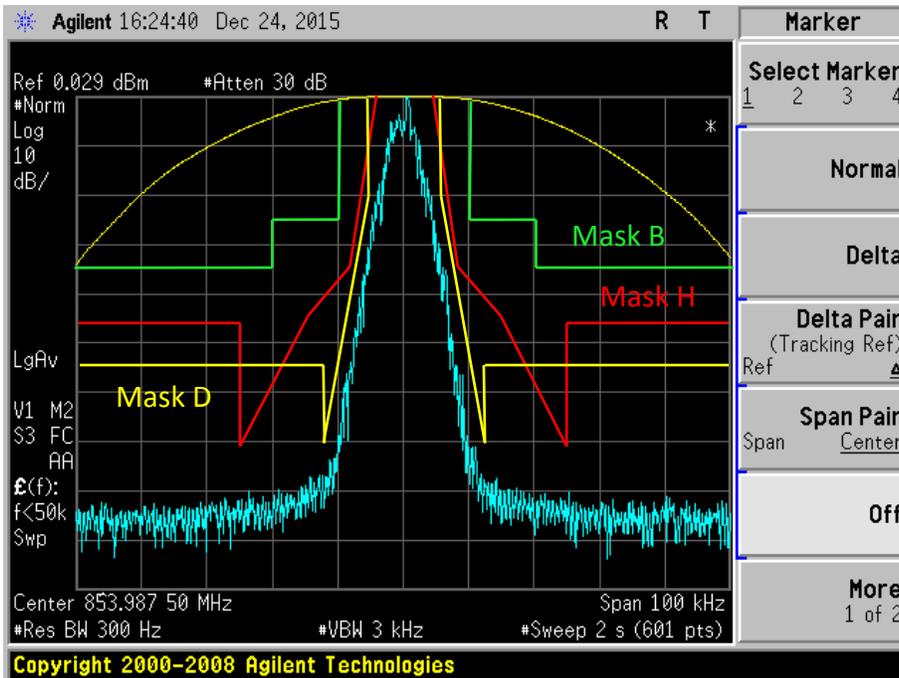


Figure 6E-19: 853.9875 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask B, D, H

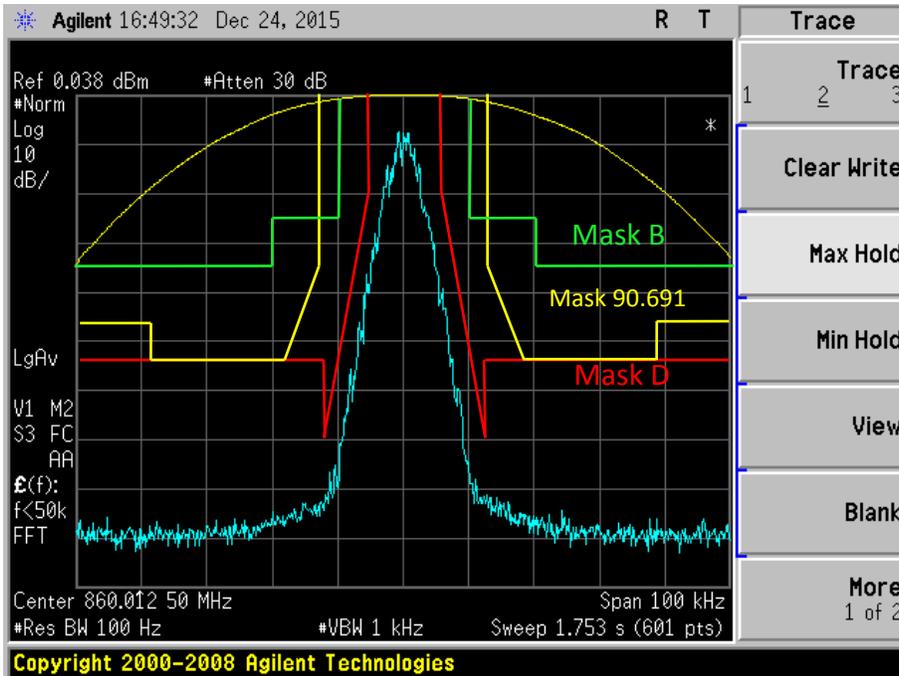


Figure 6E-20: 860.0125 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask B, D, 90.691

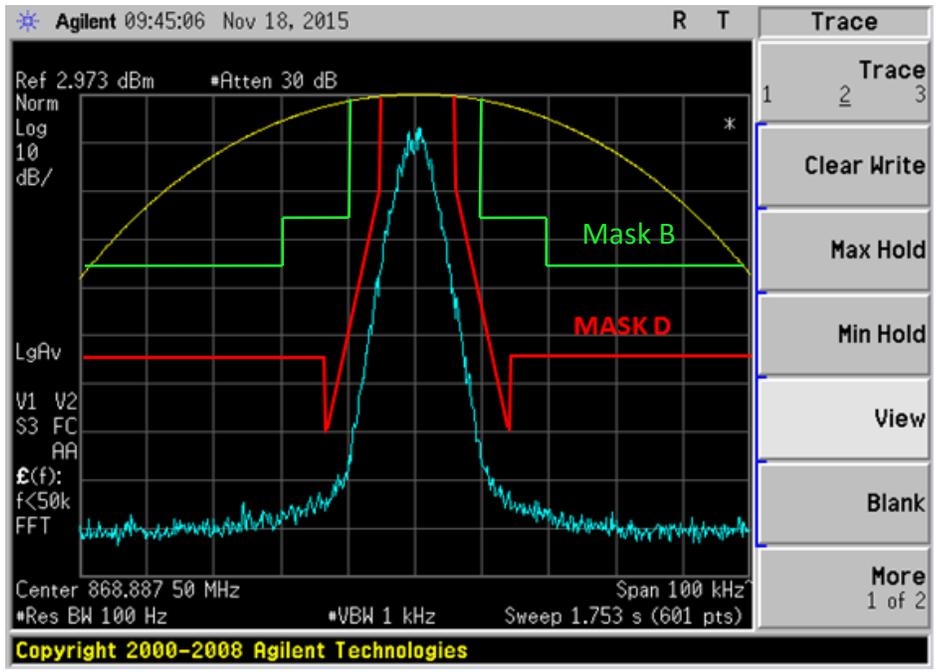


Figure 6E-21: 868.8875 MHz, O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60F1W Mask B, D

****NOTE:-**

- For 4FSK Digital Modulation, 12.5kHz Data 7K60F1D & 7K60FXD would be the same. Therefore only measurements with 7K60F1D shown above.
- For 4FSK Digital Modulation, 12.5kHz Data 7K60F1E & 7K60FXE would be the same. Therefore only measurements with 7K60F1E shown above
- All measurements of Occupied Bandwidth which are shown on the above plots are measured using a Spectrum Analyzer
- Measurement using a Spectrum Analyzer must use a 30dB attenuation in order to avoid damage to it
- Therefore the reference power level (Ref) shown on each plot refers to its true power level

99% Bandwidth Power

Spectrum Analyzer setting as below:
 RBW = 150 Hz, VBW = 15 kHz, Span = 40 kHz

Description	Bandwidth Power (99%)
Carrier, 4FSK data, O.153 test pattern, 7K60F1D, 7K60F1E, 7K60F1W, 7K60FXD, 7K60FXE	7.1046 kHz

EXHIBIT 6F

Transmitter Conducted Spurious Emissions

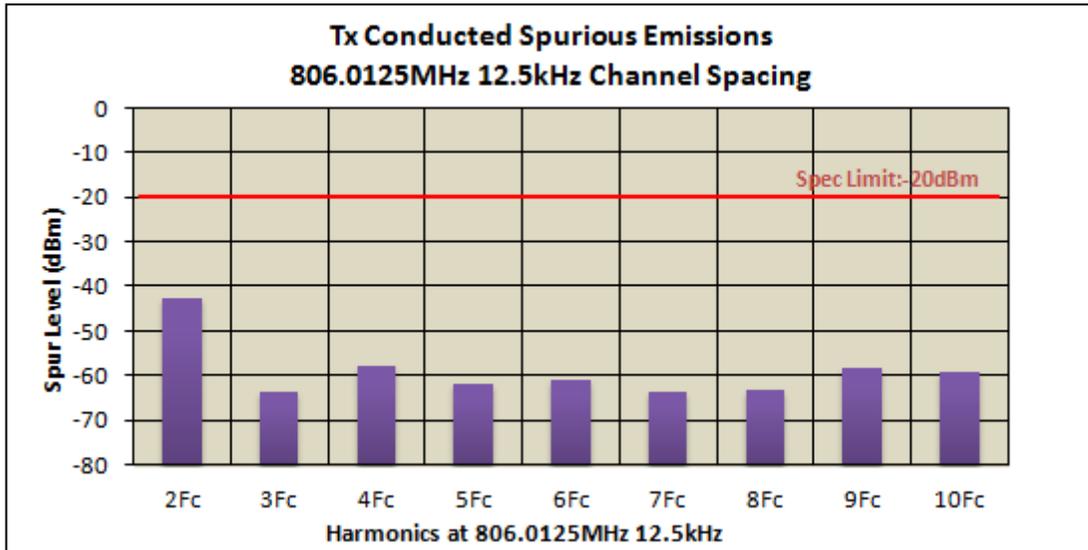


Figure 6F-1: 2.4W Harmonic of Carrier 806.0125 MHz, 12.5 kHz Channel Spacing

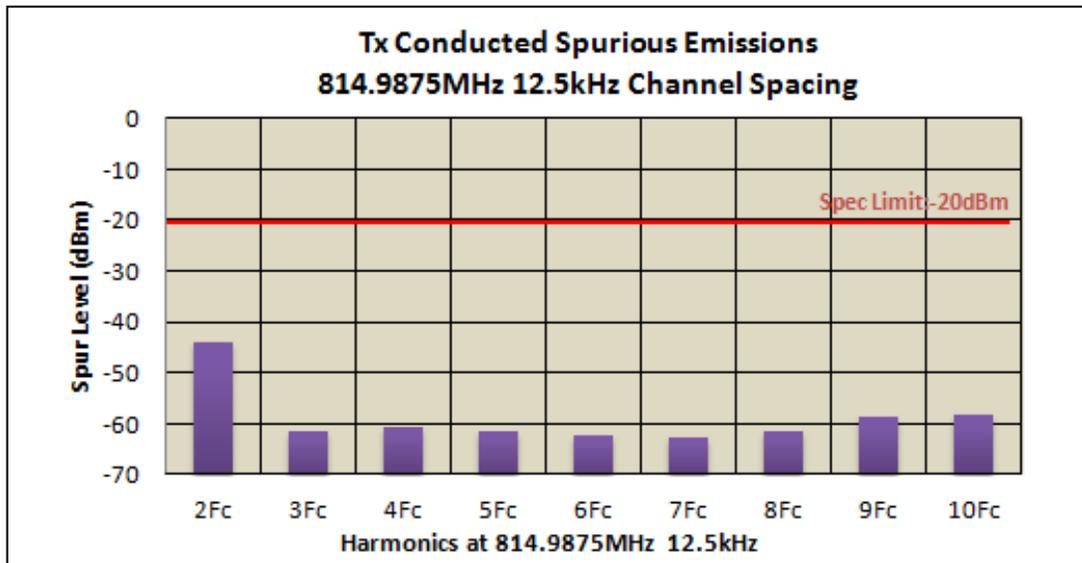


Figure 6F-2: 2.4W Harmonic of Carrier 814.9875 MHz, 12.5 kHz Channel Spacing

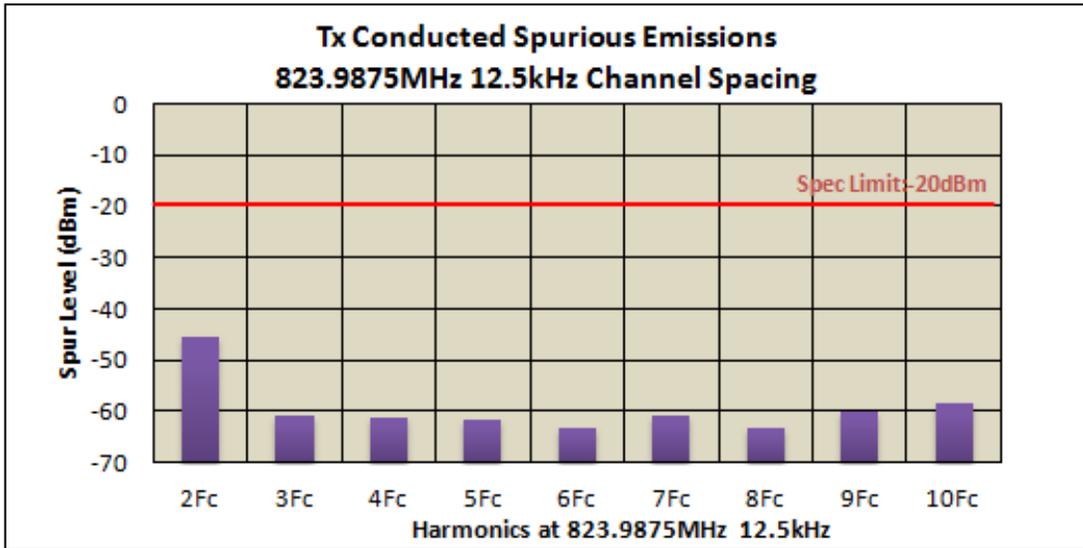


Figure 6F-3: 2.4W Harmonic of Carrier 823.9875 MHz, 12.5 kHz Channel Spacing

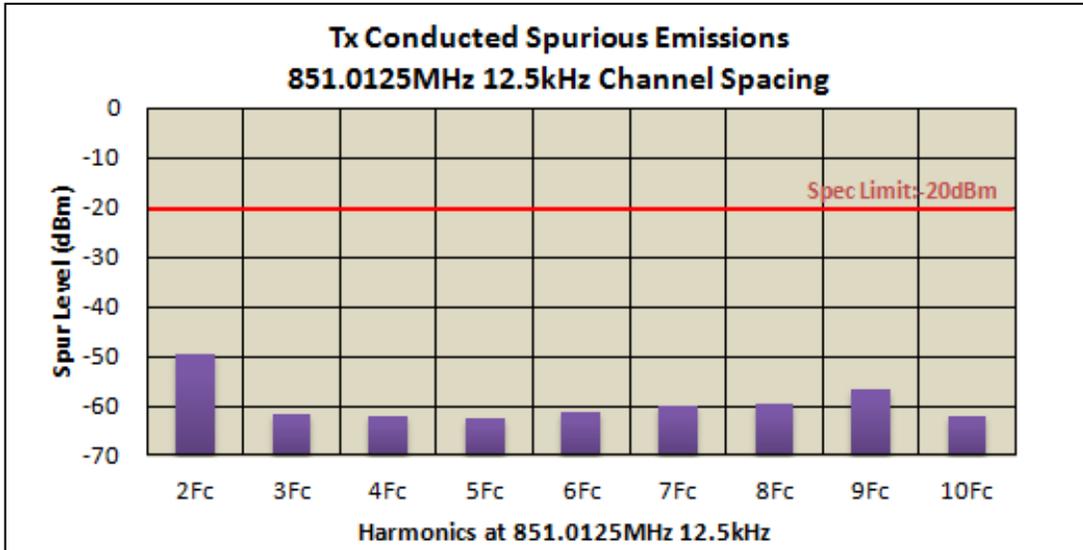


Figure 6F-4: 2.4W Harmonic of Carrier 851.0125 MHz, 12.5 kHz Channel Spacing

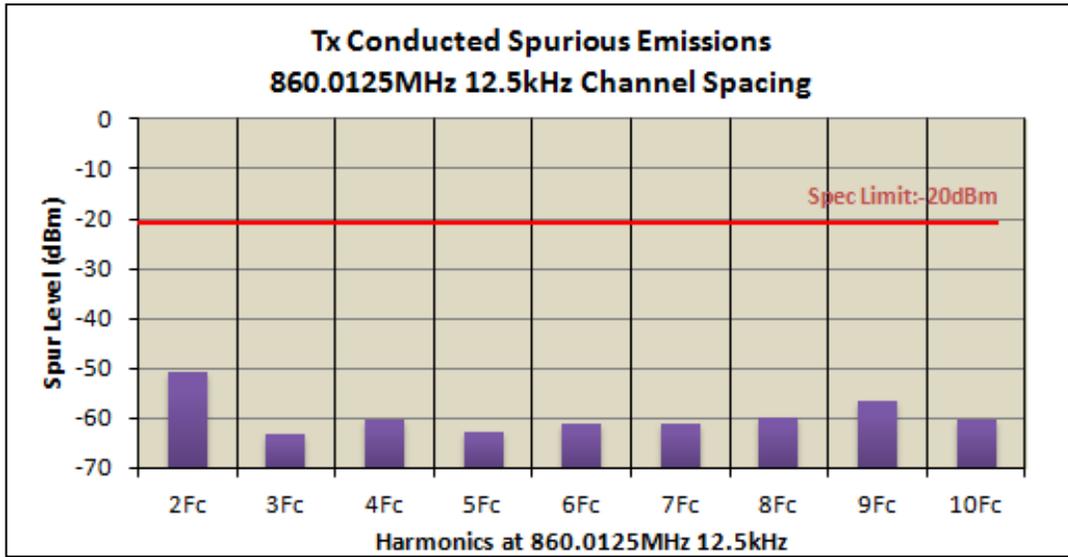


Figure 6F-5: 2.4W Harmonic of Carrier 860.0125 MHz, 12.5 kHz Channel Spacing

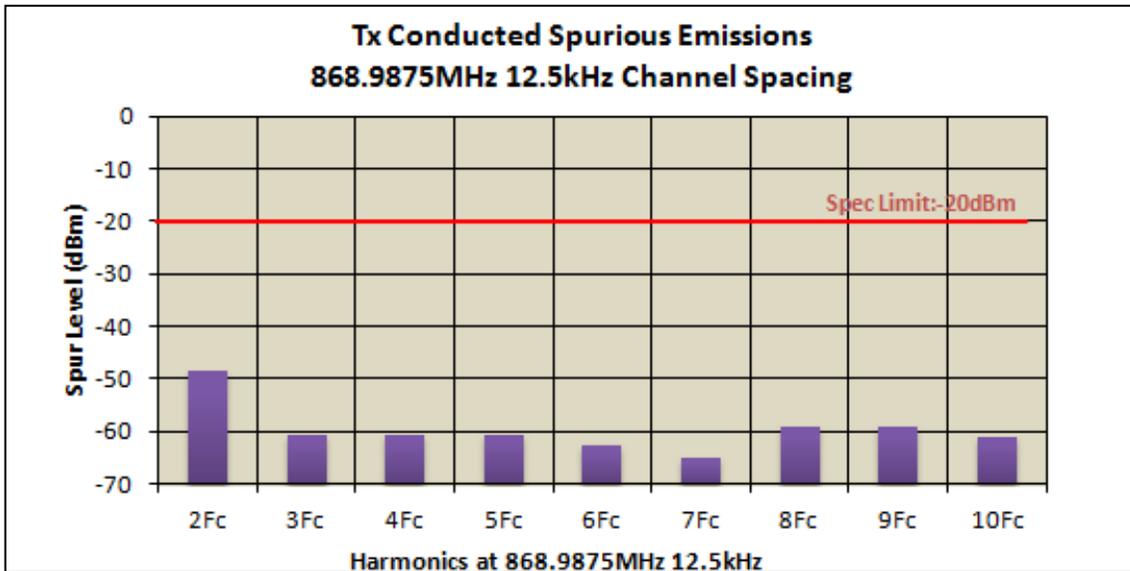


Figure 6F-6: 2.4W Harmonic of Carrier 868.9875 MHz, 12.5 kHz Channel Spacing

EXHIBIT 6H

Frequency Stability

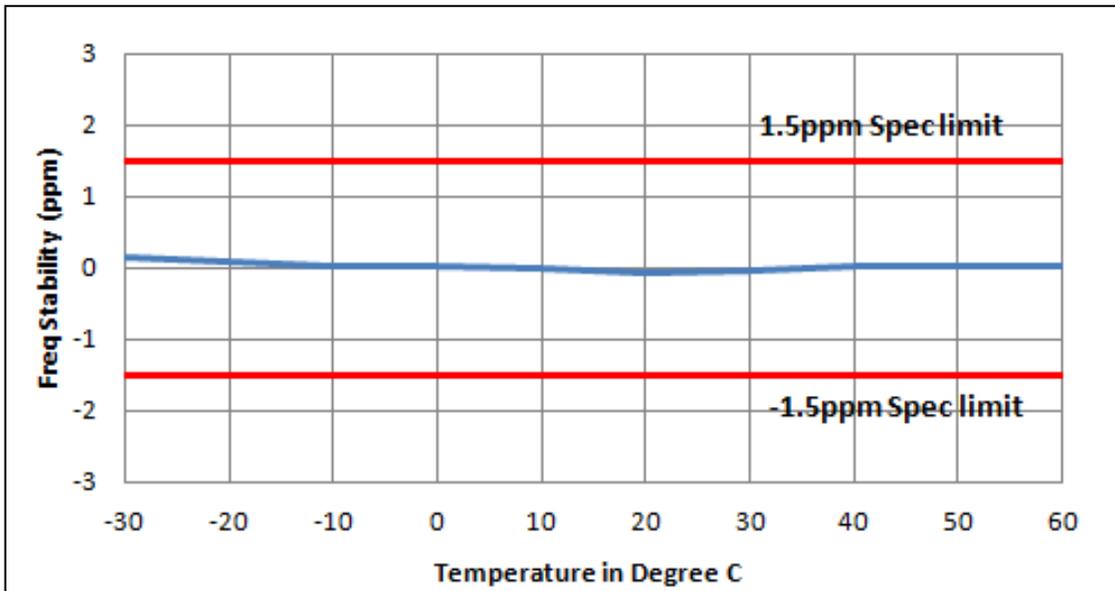


Figure 6H-1: 823.9875 MHz, 1.5 ppm Frequency Stability vs. Temperature

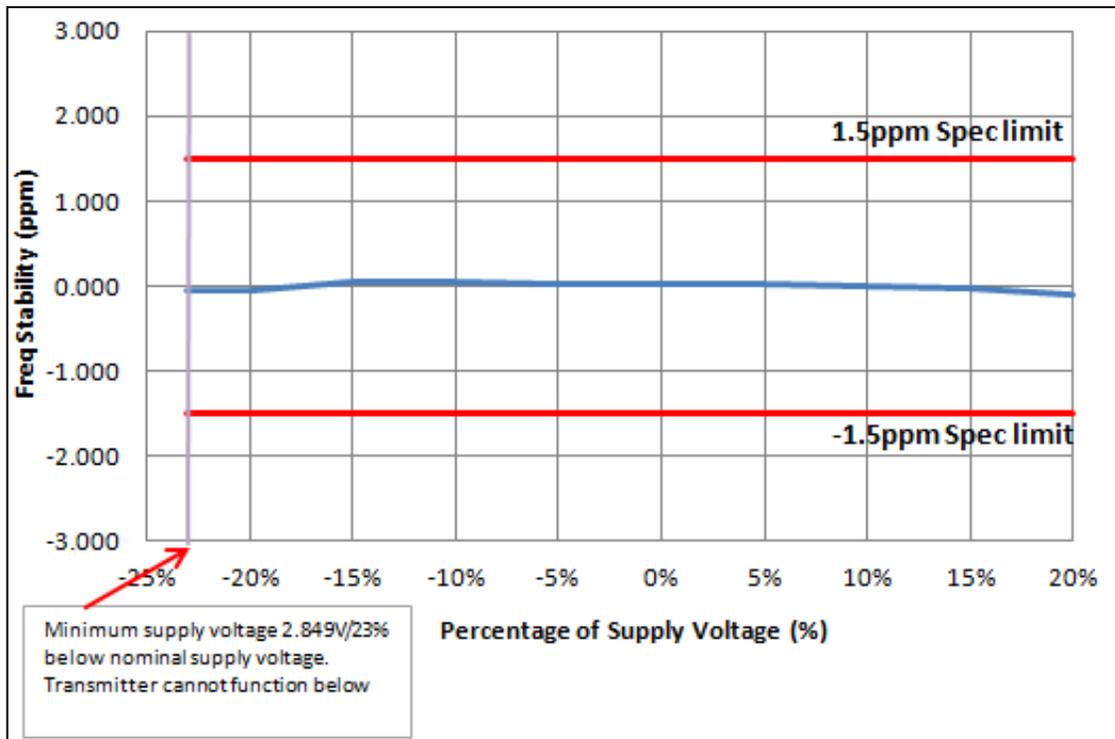


Figure 6H-2: 823.9875 MHz, 1.5 ppm Frequency Stability vs. Supply Voltage