SUBMITTED MEASURED DATA

MEASUREMENT		EXHIBIT	NUMBER OF PAGES
I	RF Power Output	6A	1
II	Occupied Bandwidth	6B	6
III	Adjacent Channel Coupled Power Ratio	6C	2
IV	Conducted Spurious Emissions	6D	14
V	Radiated Spurious Emissions	6E	14
VI	1559-1610 Radiated Spurious	6F	2
VII	Frequency Stability		
	A. Temperature	6G	2
	B. Supply Voltage	6H	1

RF POWER OUTPUT

The primary radio input supply voltage is 13.6 V for both Compatible 4-Level Frequency Modulation (C4FM) and High Performance Data (HPD) modes. The RF power output was measured with the indicated voltage applied to and current into the driver and final RF amplifying device.

HPD 64-QAM Mode:

Frequency (MHz)	RF Output Power (W)	Nominal DC Voltage (Volts)	Nominal DC Current (Amps)
794.0875	1	28	1.42
	12	28	2.93
809.9875	1	28	1.39
	12	28	2.93
823.9875	1	28	1.42
	12	28	2.93

C4FM Mode:

Frequency (MHz)	RF Output Power (W)	Nominal DC Voltage (Volts)	Nominal DC Current (Amps)
764.0875	15	23	3.28
	36	23	5.08
823.9875	15	23	3.01
	42	23	5.23
868.9875	15	23	2.86
	42	23	5.91

OCCUPIED BANDWIDTH

BANDWIDTH CALCULATIONS**:**

Shown below are the calculations required for FCC ID: AZ492FT5850

EXHIBITS 6E-1, 6E-2 & 6E-3
High Performance Data Mode (25 kHz Channelization, Digital Data):
Emission Designator 17K7D7D

These exhibits show occupied bandwidth data for different modulation schemes (QPSK, 16-QAM and 64-QAM) used in high performance data mode. All these modulation schemes can be used in a system configuration based upon channel usage as described Exhibit 4.

The necessary bandwidth of the modulation signal is not calculable per the formula defined in 47 CFR 2.202(g) and so measurements were done per Rule Part 2.202 Section C(4). Therefore, the 99% energy rule, per 2.202(a), 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, 17.7 kHz. Measurements were performed in accordance with TIA/EIA 102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(g).
[Biennial Regulatory Review Report and Order, Adopted July 22, 2005, FCC 05-144, http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-05-144A1.doc].

D7D portion of the designator indicates digital data.

Therefore, the entire designator for 25 kHz channelization digital data is 17K7D7D.

EXHIBIT 6E-4
Compatible 4-Level Frequency Modulation (C4FM) Mode (12.5 KHz Channelization, Digital Data):
Emission Designator 8K10F1D

Measurements per Rule Part 2.202 Section C (4) were done because Part 2.202 Section g Table III A, 1 formulation produces an excessive result using the value of K recommended in the Table. Therefore, 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 102.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 data is 8K10F1D.

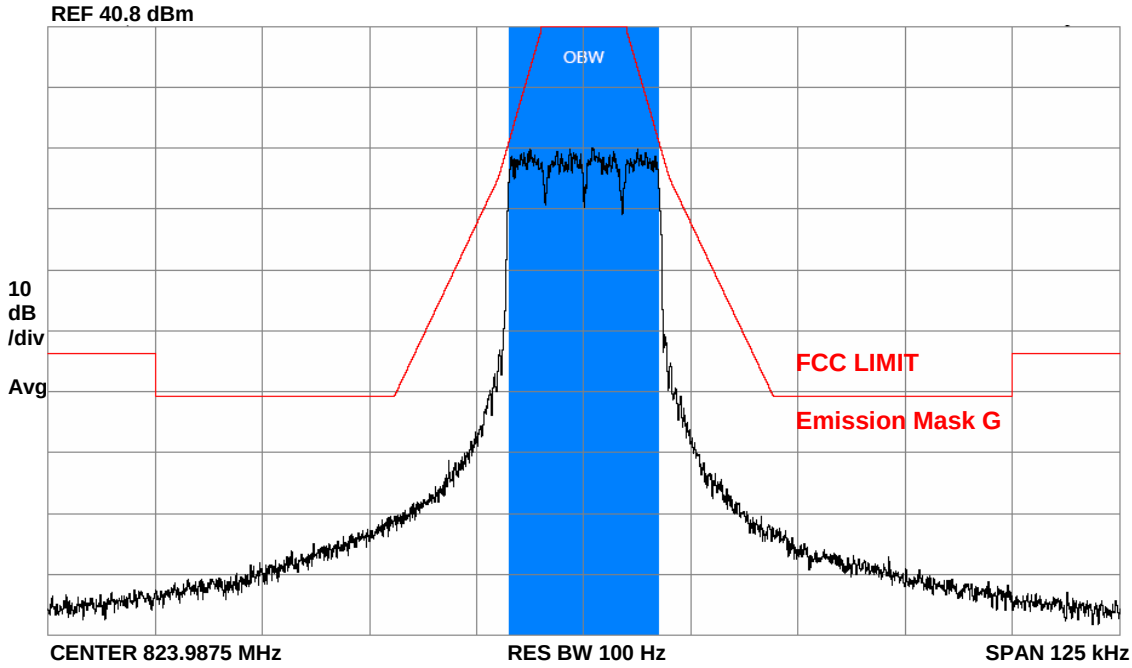
Note: The 90.203(j) efficiency standard for “F1D” emission is met by sending 2 bits at a time, at a rate of 4800 symbols/second. This yields 9600 bits/second, which is achieved using the modulation technique described in the note below. Modulation results from one of the digital 4-level standard symbol patterns applied to the modulation at a rate of 9600 bits/second. The modulation technique is 4-level FM. The information bits are commonly represented by a symbol that corresponds to one of 4 levels of FM deviation according to the following table.

Information Bits	Symbol	C4FM Deviation
01	+3	+1.8 kHz
00	+1	+0.6 kHz
10	-1	-0.6 kHz
11	-3	-1.8 kHz

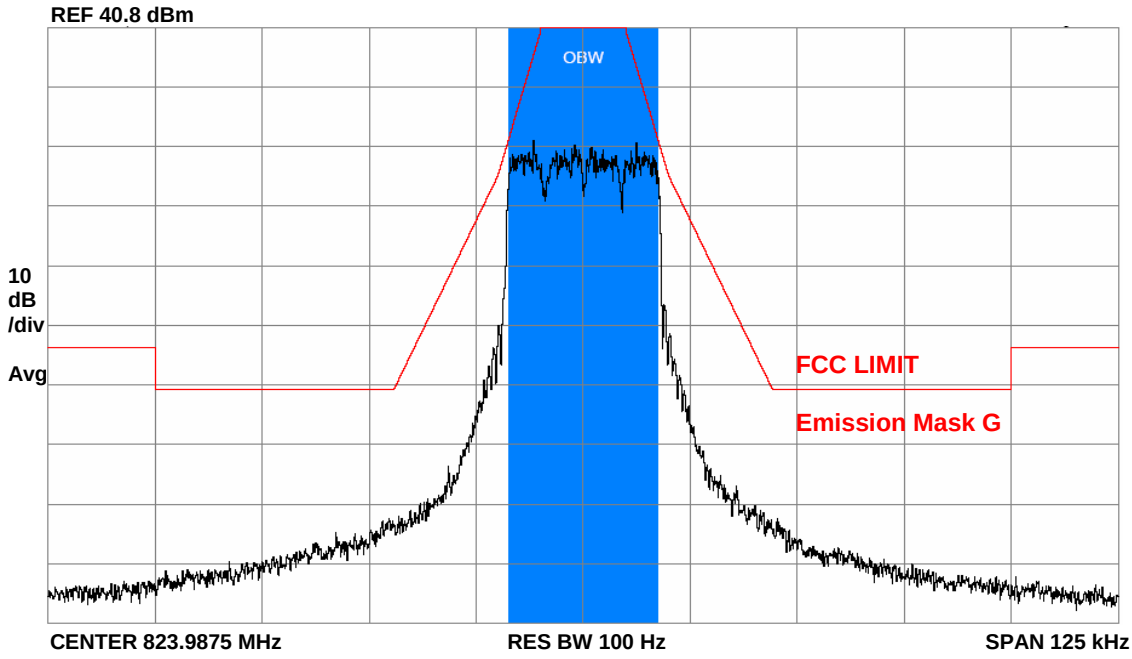
For example, an 8-bit binary pattern of 0010 1101 would be sent as symbols +1, -1, -3, +3, which would cause a modulation signal (Frequency-Shift-Keyed) of +1.8 kHz, -600 Hz, -1.8 kHz, and +1.8 kHz. This results in 9600 bits/second of information being sent on a 12.5 kHz channel, which is the equivalent of 4800 bits/second per 6.25 kHz.

Note: The “F1D” signal parameters are described as follows: The modulation is 4-level FSK with +/-600 Hz and +/-1.8 kHz shifting (+/-600 Hz and +/-1.8 kHz are the 4 distinct levels of signals). The digital data test signal is generated by an internally generated pseudo random test pattern based on ITU-T 0.153 (formally CCITT V.52).

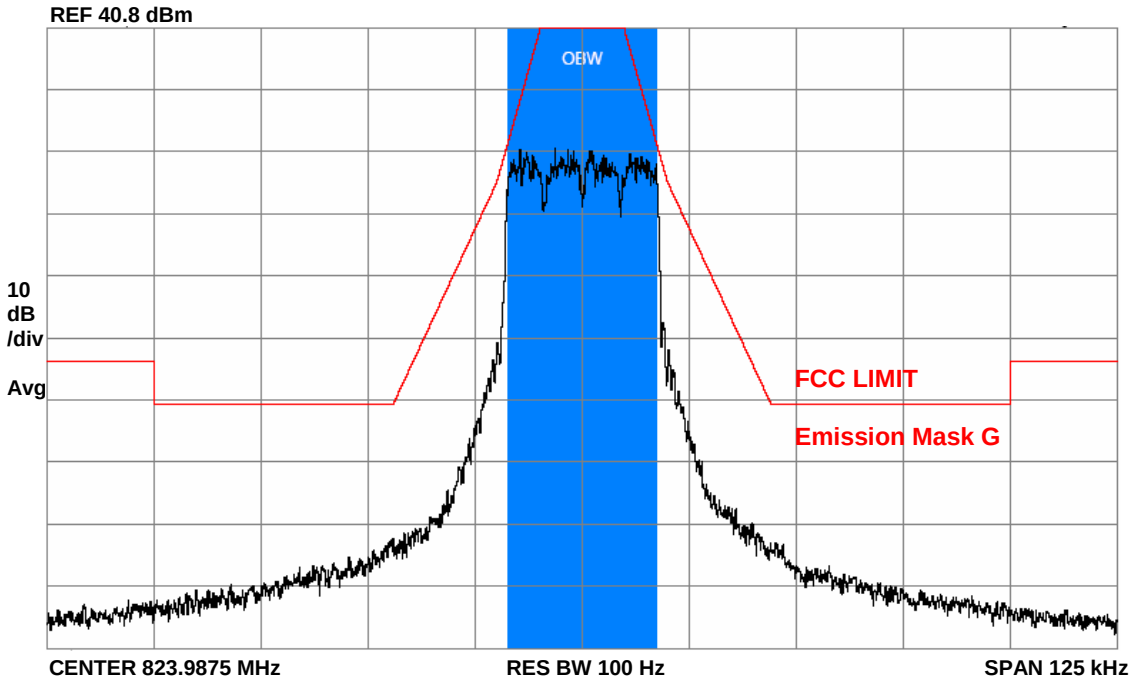
Occupied Bandwidth -- High Performance Data - 4 QAM (QPSK) - 17K7D7D - 12 Watts



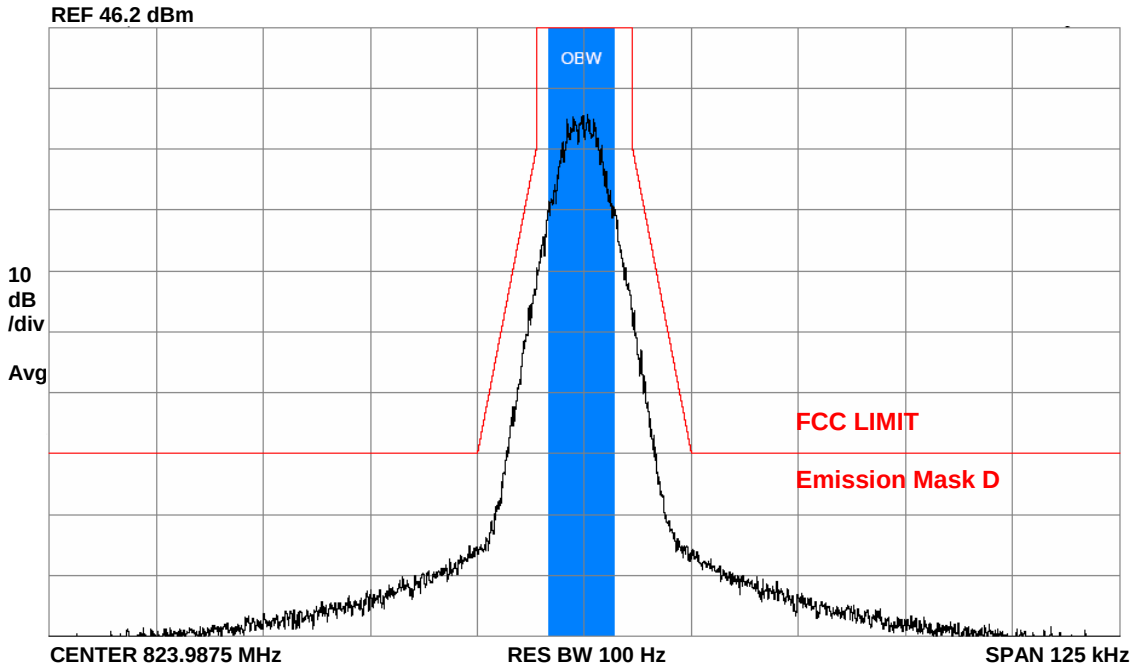
Occupied Bandwidth -- High Performance Data - 16 QAM - 17K7D7D - 12 Watts



Occupied Bandwidth -- High Performance Data - 64 QAM - 17K7D7D - 12 Watts



Occupied Bandwidth -- Compatible 4-Level Frequency Modulation - 8K10F1D - 42 Watts



Adjacent Channel Coupled Power Ratios

794.0875 MHz 25.0 kHz Channel Spacing 4-QAM

Emission Designator 17K7D7D

Ref Power Level (dBm) = 4.6

Offset (kHz)	Measurement Bandwidth (kHz)	Resolution Bandwidth (Hz)		ACP (dBc) Lower	ACP (dBc) Upper	ACP (dBc) Spec (dBc)
15.625	6.250	100		-55.90	-55.80	-40
21.875	6.250	100		-64.87	-64.33	-60
37.500	25.000	300		-63.53	-63.95	-60
62.500	25.000	300		-70.47	-70.62	-65
87.500	25.000	300		-73.79	-74.04	-65
150.000	100.000	1100		-70.11	-70.36	-65
250.000	100.000	1100		-70.96	-71.25	-65
350.000	100.000	1100		-71.10	-71.61	-65
>400kHz-12MHz	30 (swept)	30000		< -75		-75
12M-RX Band	30 (swept)	30000		< -75		-75
in RX Band	30 (swept)	30000		< -100		-100

794.0875 MHz 25.0 kHz Channel Spacing 16-QAM

Emission Designator 17K7D7D

Ref Power Level (dBm) = 4.6

Offset (kHz)	Measurement Bandwidth (kHz)	Resolution Bandwidth (Hz)		ACP (dBc) Lower	ACP (dBc) Upper	ACP (dBc) Spec (dBc)
15.625	6.250	100		-53.78	-54.44	-40
21.875	6.250	100		-64.91	-64.43	-60
37.500	25.000	300		-63.62	-64.09	-60
62.500	25.000	300		-70.47	-70.56	-65
87.500	25.000	300		-74.03	-74.15	-65
150.000	100.000	1100		-70.25	-70.41	-65
250.000	100.000	1100		-71.00	-71.30	-65
350.000	100.000	1100		-71.20	-71.51	-65
>400kHz-12MHz	30 (swept)	30000		< -75		-75
12M-RX Band	30 (swept)	30000		< -75		-75
in RX Band	30 (swept)	30000		< -100		-100

Adjacent Channel Coupled Power Ratios

794.0875 MHz 25.0 kHz Channel Spacing 64-QAM

Emission Designator 17K7D7D

Ref Power Level (dBm) = 4.6

Offset (kHz)	Measurement Bandwidth (kHz)	Resolution Bandwidth (Hz)		ACP (dBc) Lower	Upper	Spec (dBc)
15.625	6.250	100		-54.04	-53.89	-40
21.875	6.250	100		-64.45	-64.10	-60
37.500	25.000	300		-63.91	-64.17	-60
62.500	25.000	300		-70.59	-70.37	-65
87.500	25.000	300		-73.77	-74.18	-65
150.000	100.000	1100		-70.21	-70.43	-65
250.000	100.000	1100		-71.10	-71.36	-65
350.000	100.000	1100		-71.28	-71.64	-65
>400kHz-12MHz	30 (swept)	30000		< -75		-75
12M-RX Band	30 (swept)	30000		< -75		-75
in RX Band	30 (swept)	30000		< -100		-100

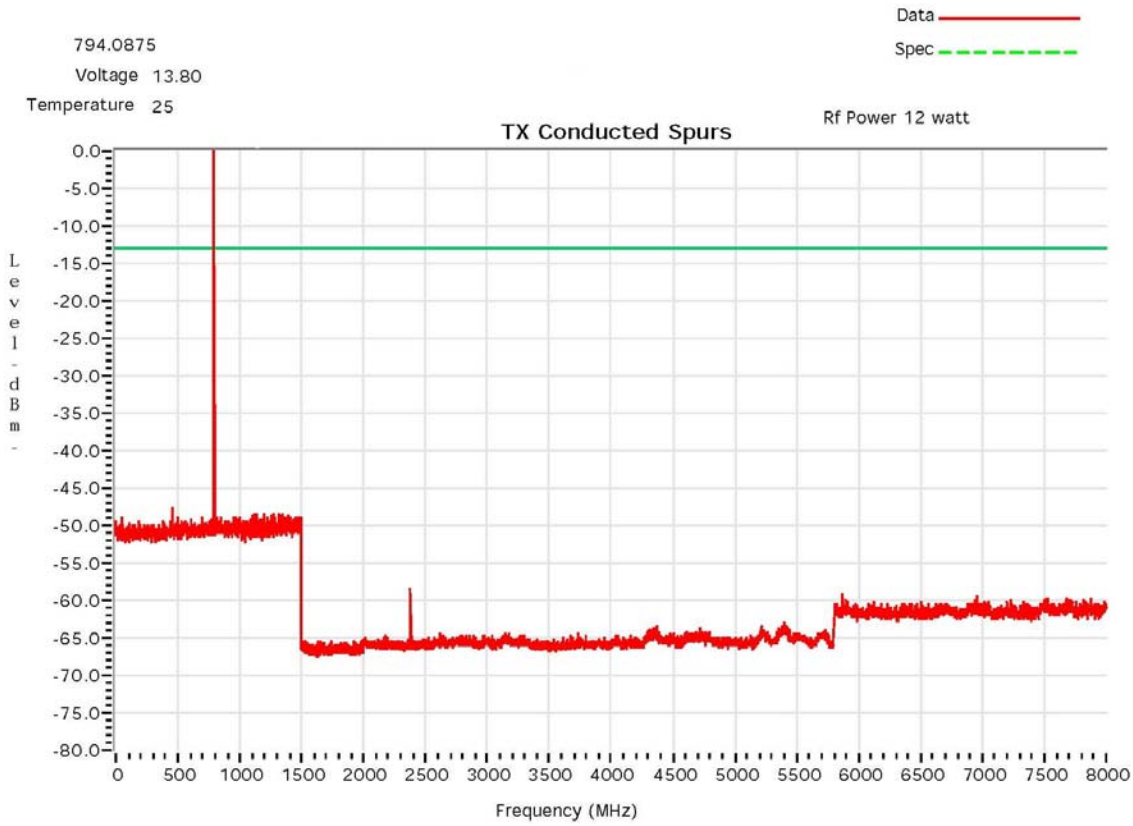
794.0875 MHz 12.5 kHz Channel Spacing DIGITAL DATA

Emission Designator 8K10F1D

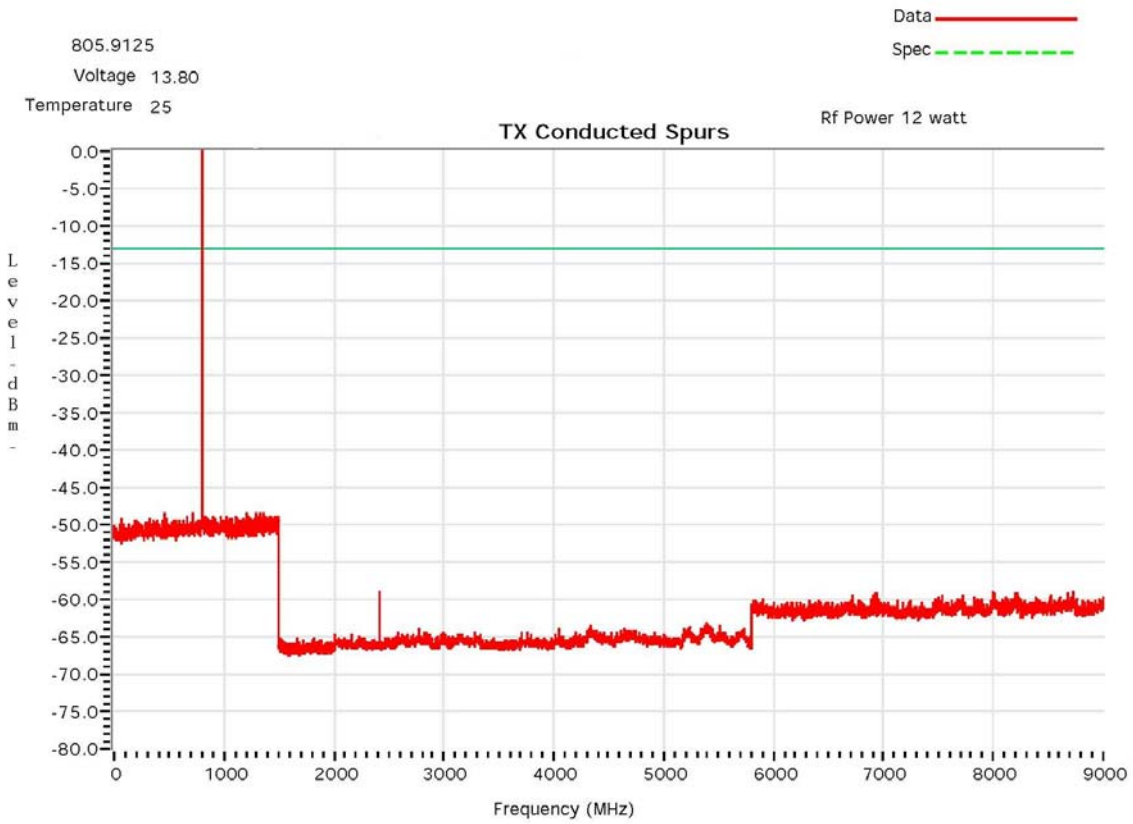
Ref Power Level (dBm) = 4.6

Offset (kHz)	Measurement Bandwidth (kHz)	Resolution Bandwidth (Hz)		ACP (dBc) Lower	Upper	Spec (dBc)
9.375	6.250	100		-41.85	-41.78	-40
15.625	6.250	100		-69.98	-70.26	-60
21.875	6.250	100		-74.27	-74.44	-60
37.500	25.000	300		-72.26	-72.58	-60
62.500	25.000	300		-77.08	-77.27	-65
87.500	25.000	300		-79.06	-79.13	-65
150.000	100.000	1100		-74.71	-74.83	-65
250.000	100.000	1100		-75.21	-75.38	-65
350.000	100.000	1100		-75.68	-76.11	-65
>400kHz-12MHz	30 (swept)	30000		< -75		-75
12M-RX Band	30 (swept)	30000		< -75		-75
in RX Band	30 (swept)	30000		< -100		-100

HPD Mode – 794.0875 MHz



HPD Mode – 805.9125 MHz



HPD Mode – 823.9875 MHz

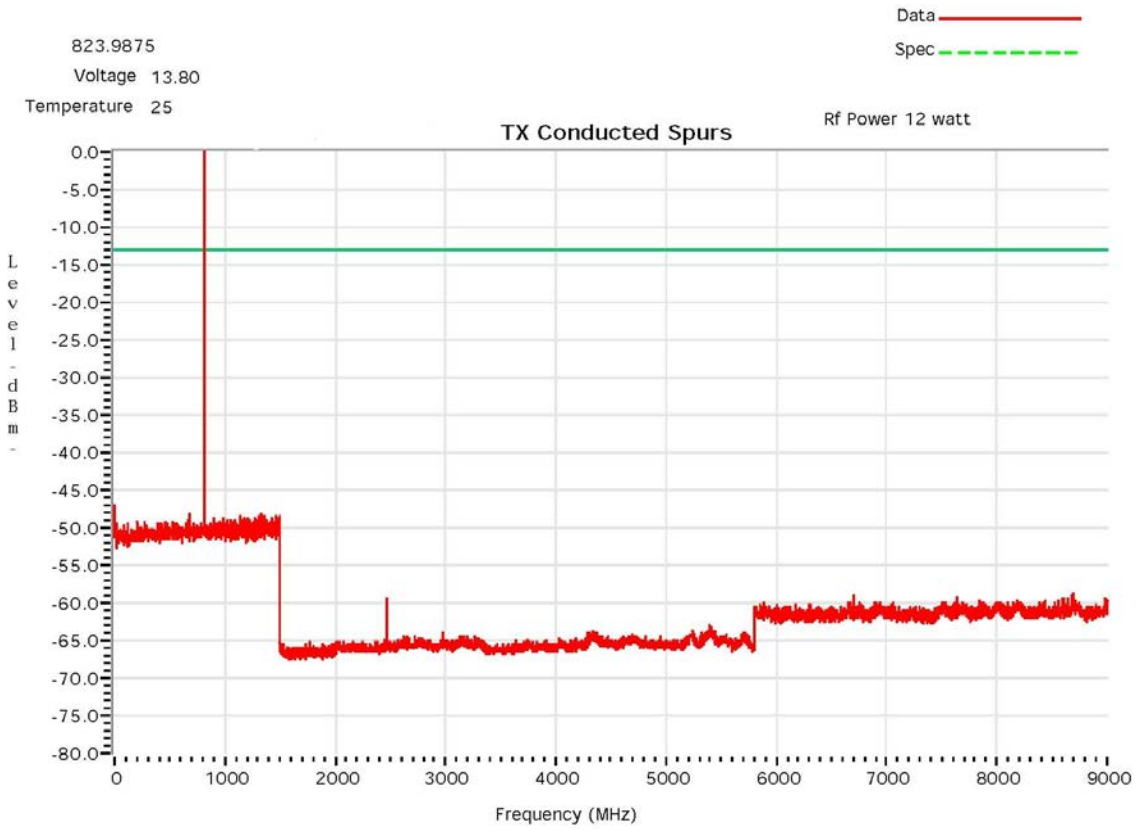


EXHIBIT 6D-3

HPD Mode – 794.0875 MHz

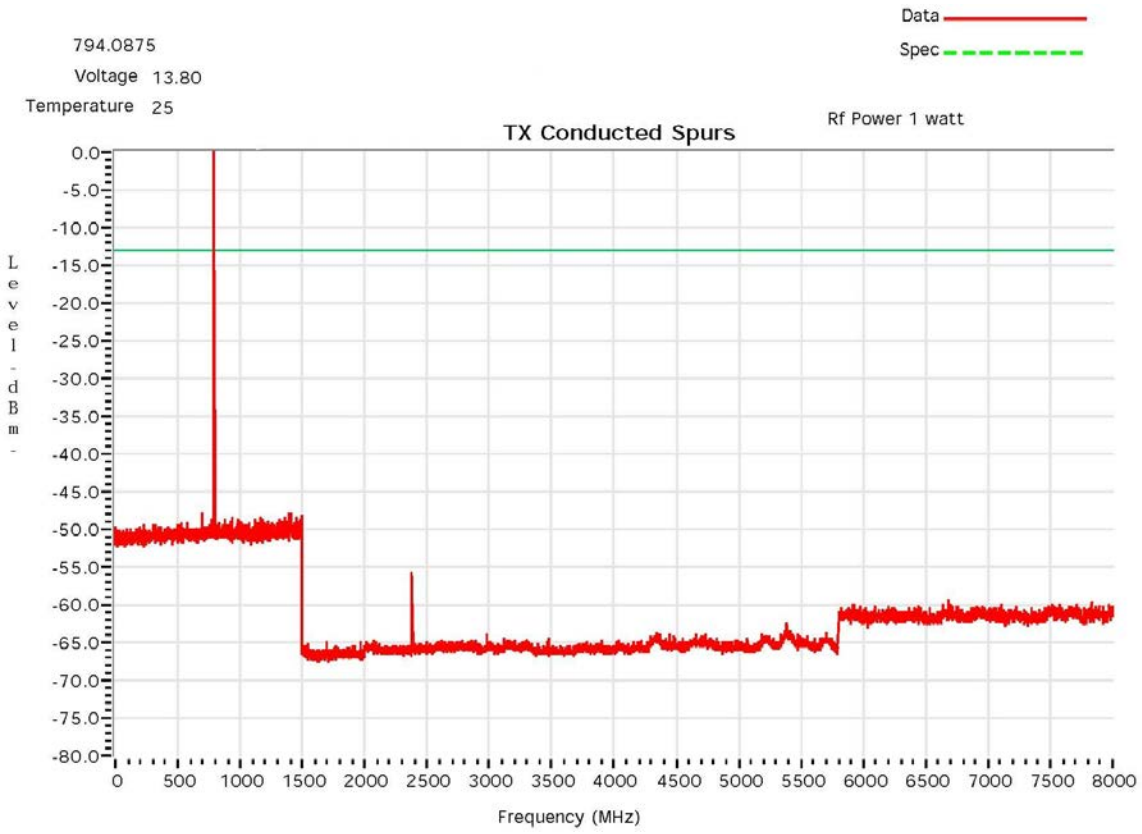
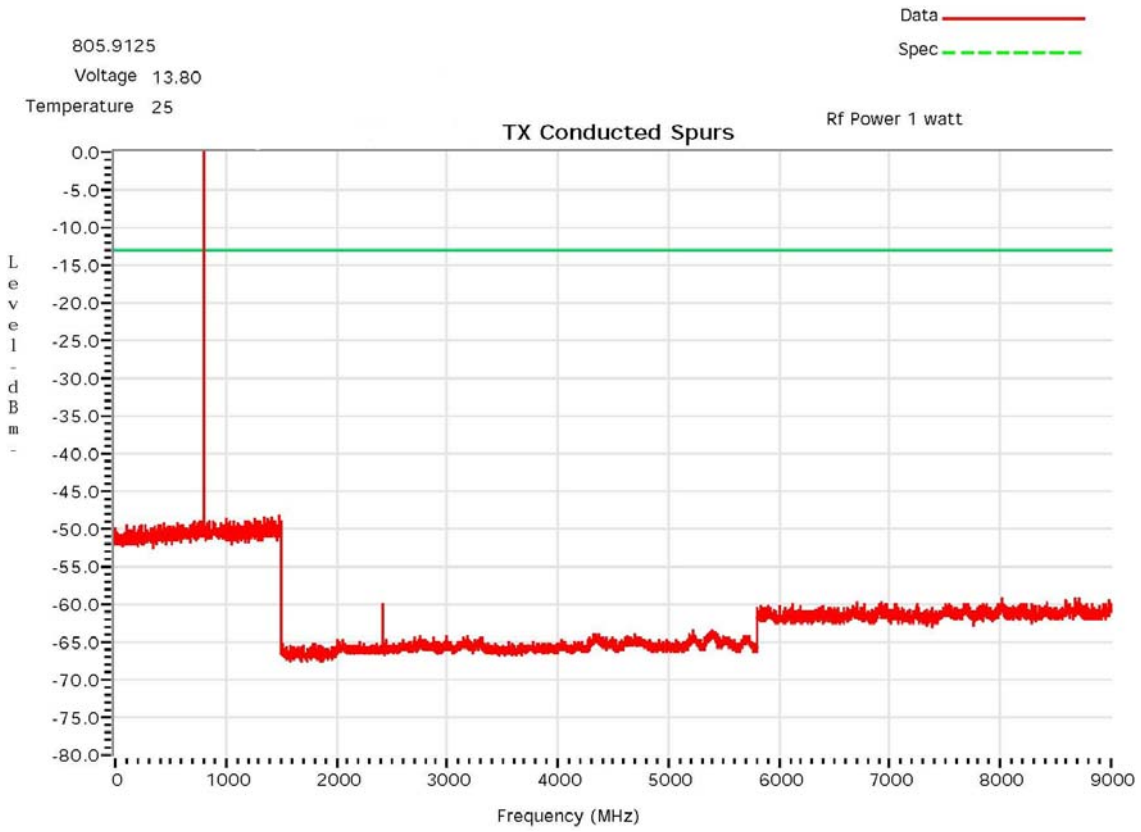
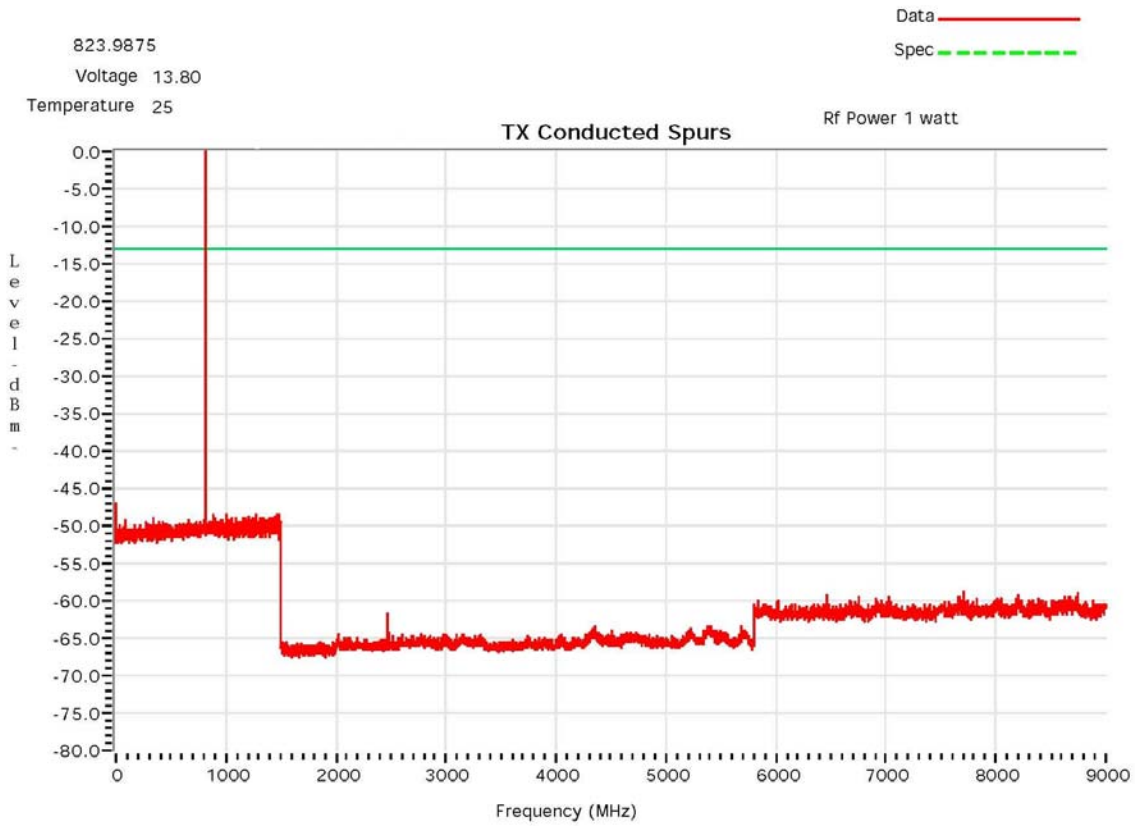


EXHIBIT 6D-4

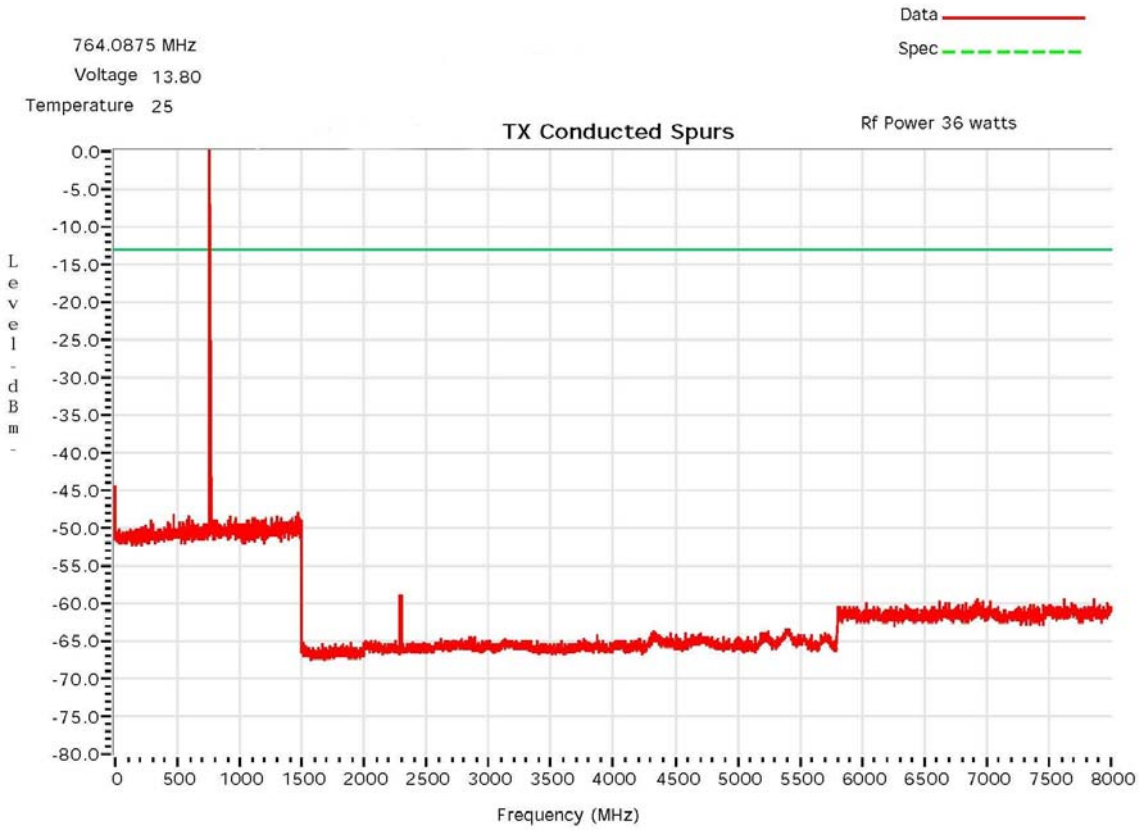
HPD Mode – 805.9125 MHz



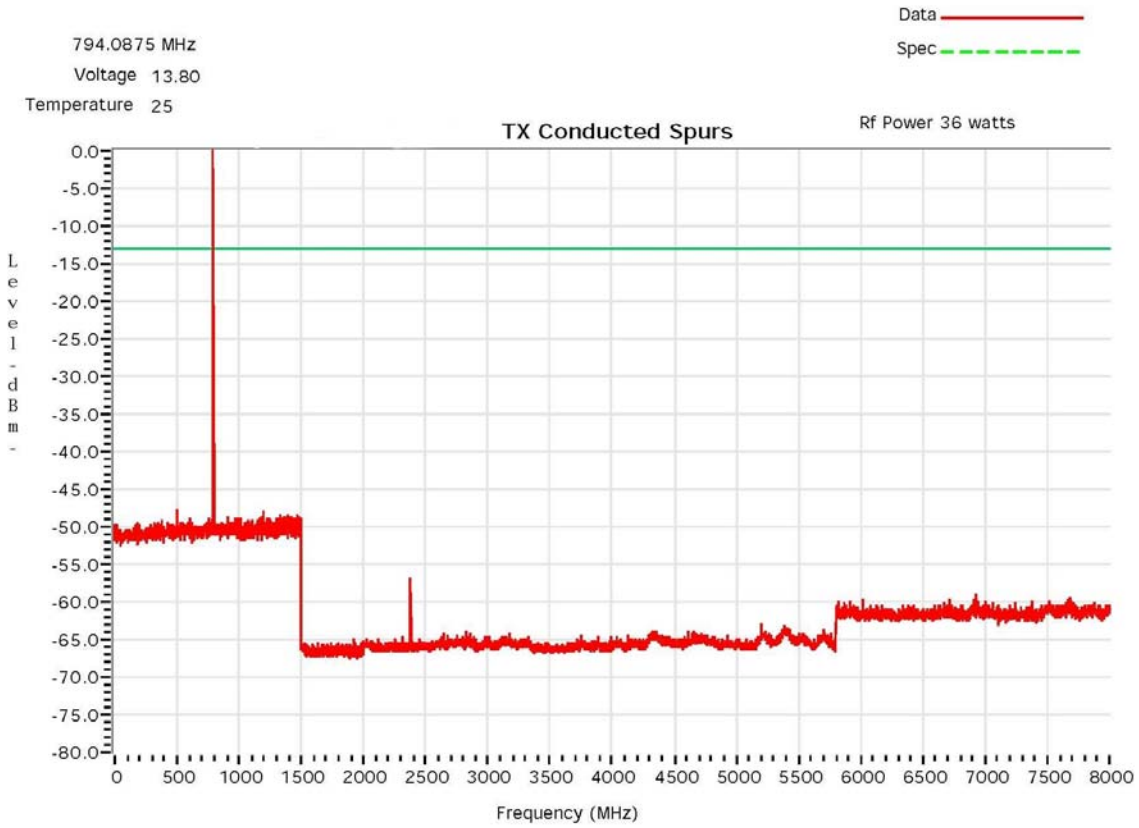
HPD Mode – 823.9875 MHz



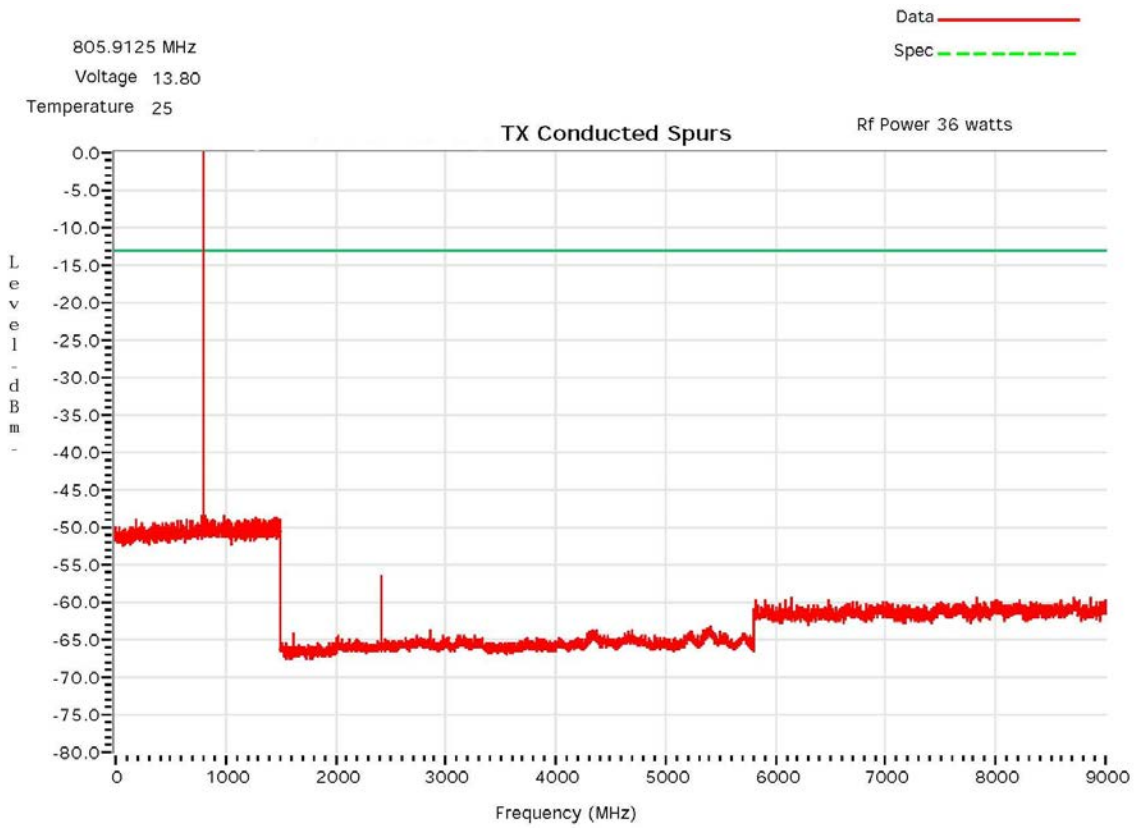
C4FM Mode – 764.0875 MHz



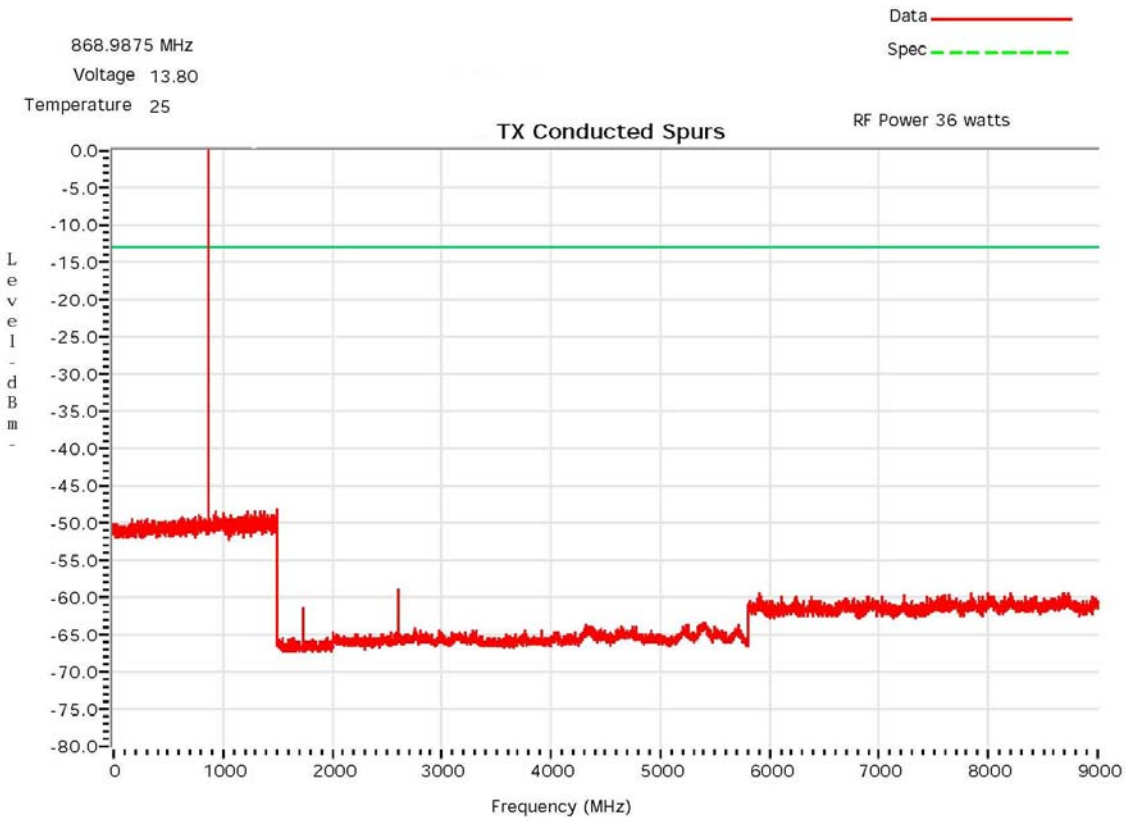
C4FM Mode – 794.0875 MHz



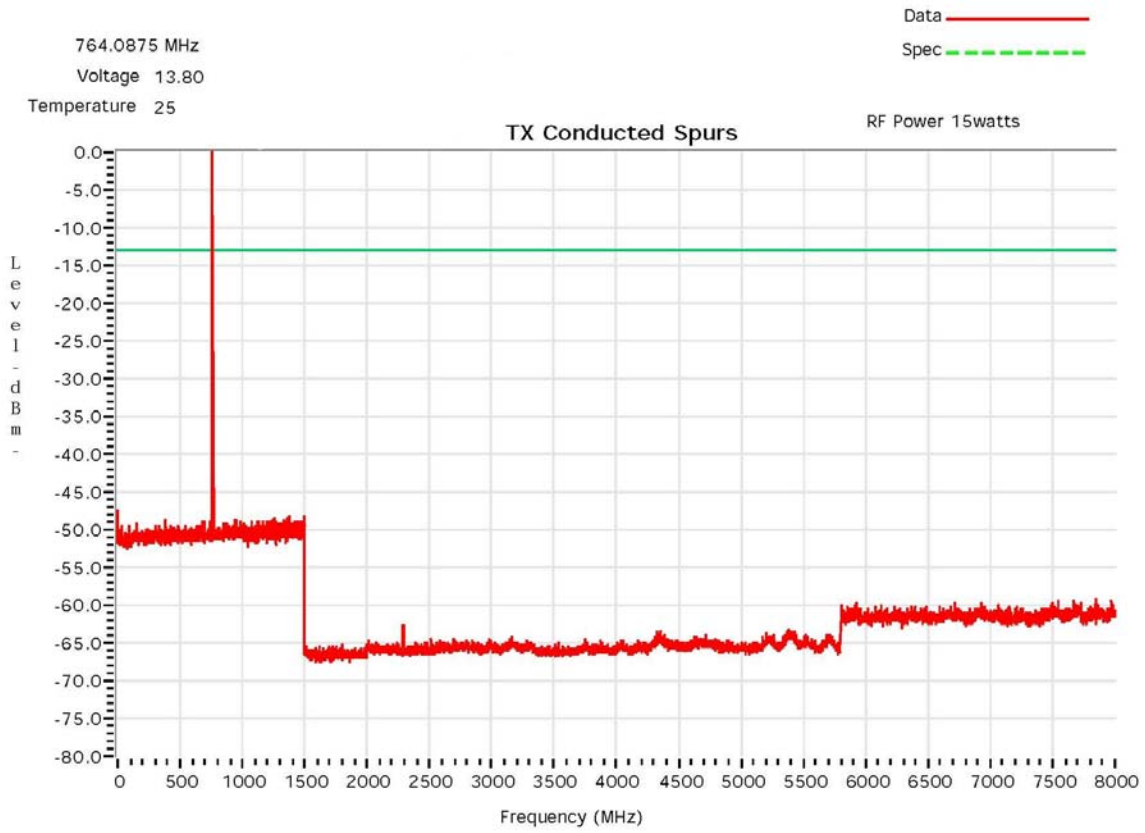
C4FM Mode – 805.9125 MHz



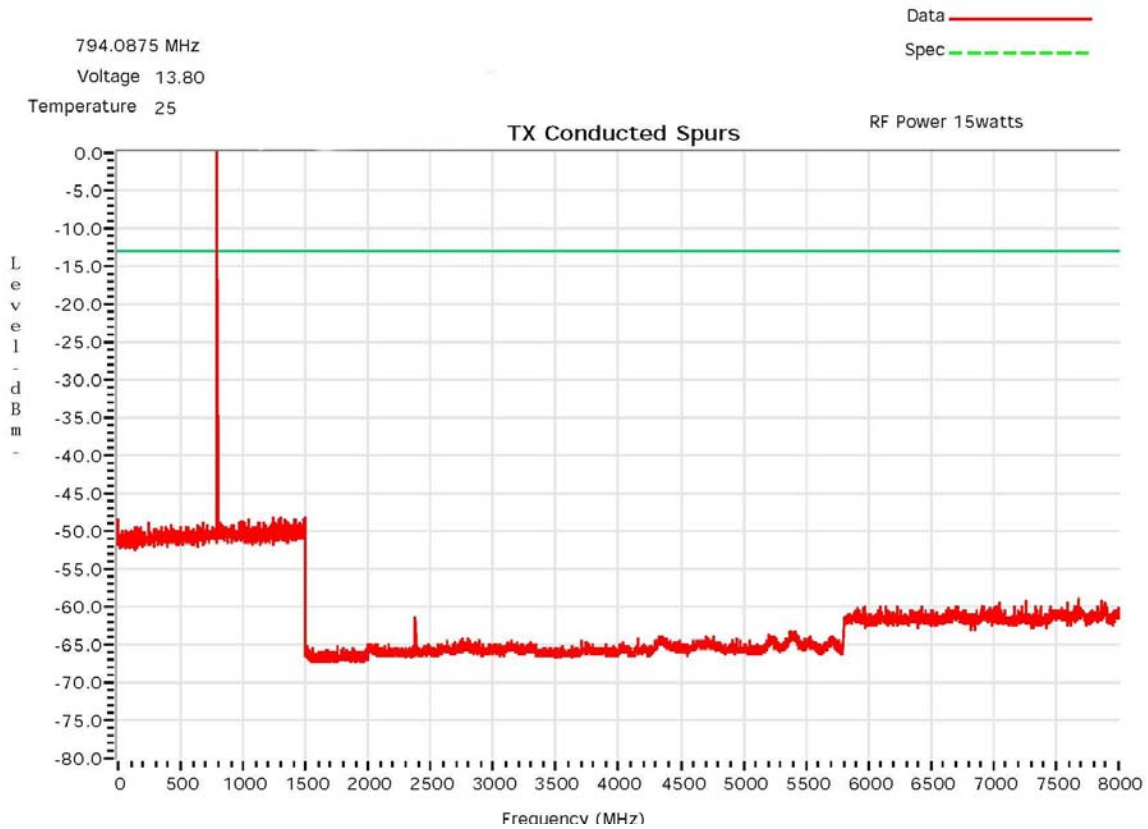
C4FM Mode – 868.9875 MHz



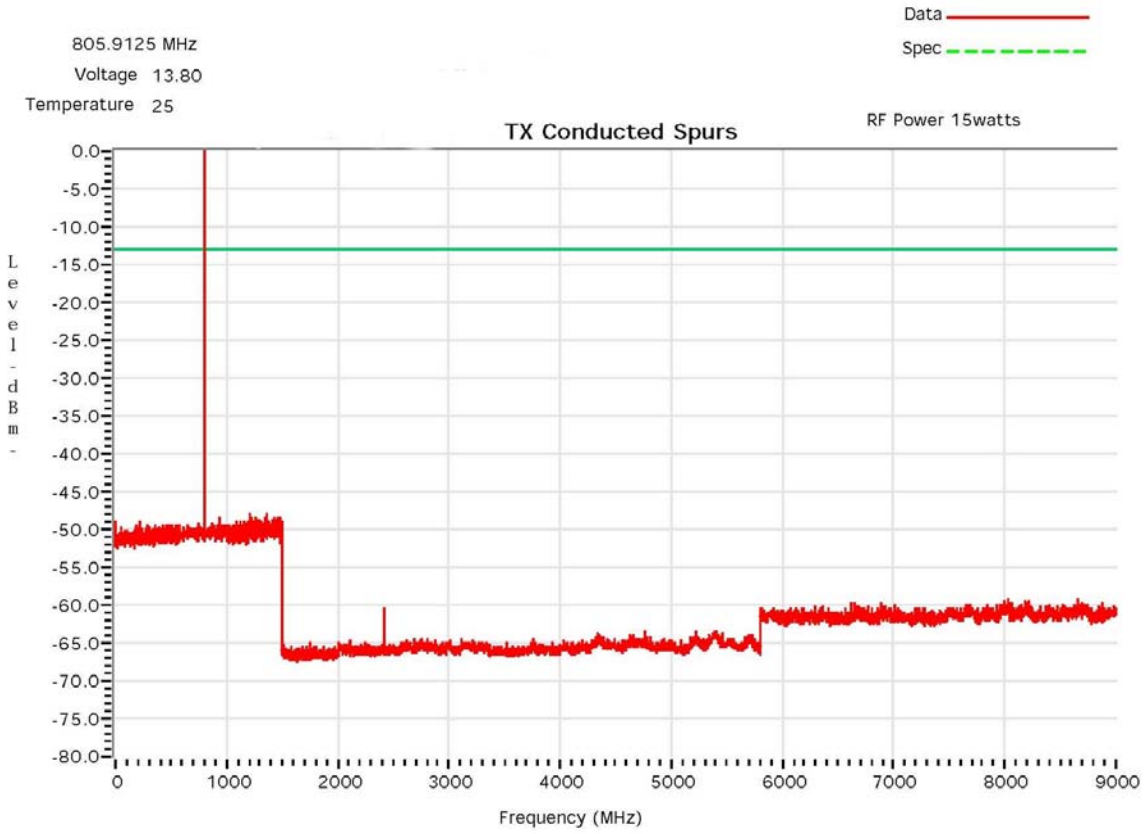
C4FM Mode – 764.0875 MHz



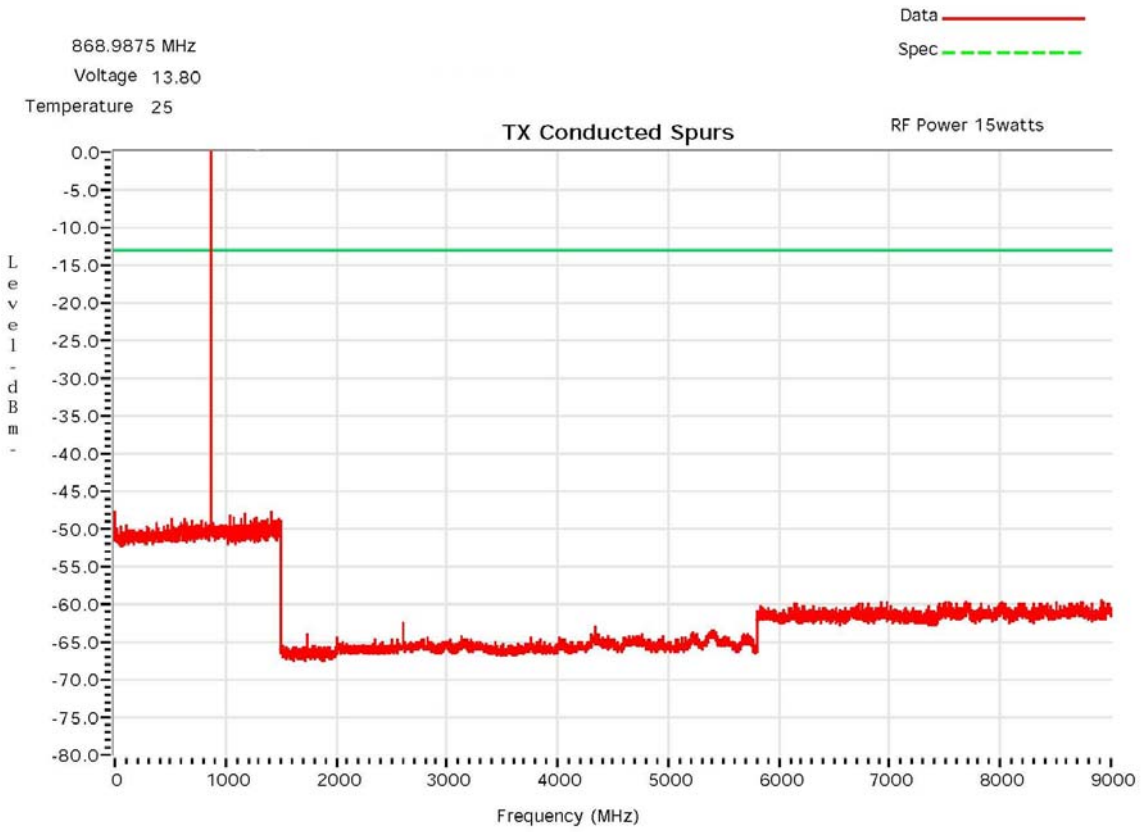
C4FM Mode – 794.0875 MHz



C4FM Mode – 805.9125 MHz



C4FM Mode – 868.9875 MHz

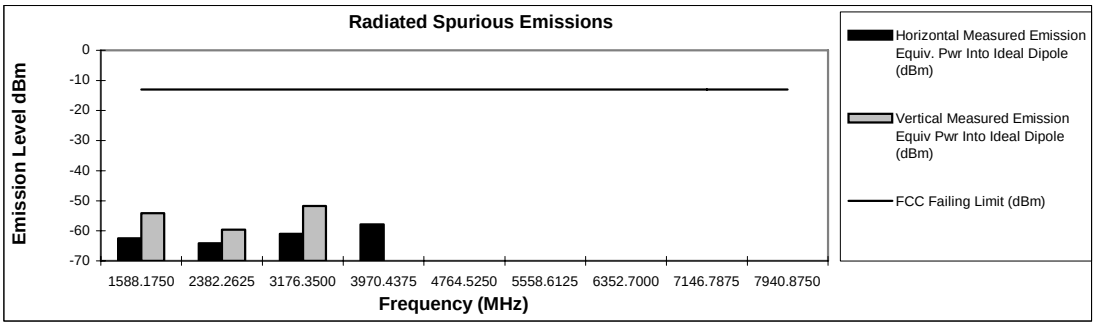


Transmit Radiated Spurious Emissions: HPD 1000 (HPD Mode)

Tx Power: 12 Watts

794.0875 MHz **Channel Spacing 25kHz | S/N P7F1 HPD**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1588.1750	-13	-62.46	-54.10
2382.2625	-13	-64.14	-59.56
3176.3500	-13	-60.97	-51.72
3970.4375	-13	-57.84	*
4764.5250	-13	*	*
5558.6125	-13	*	*
6352.7000	-13	*	*
7146.7875	-13	*	*
7940.8750	-13	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

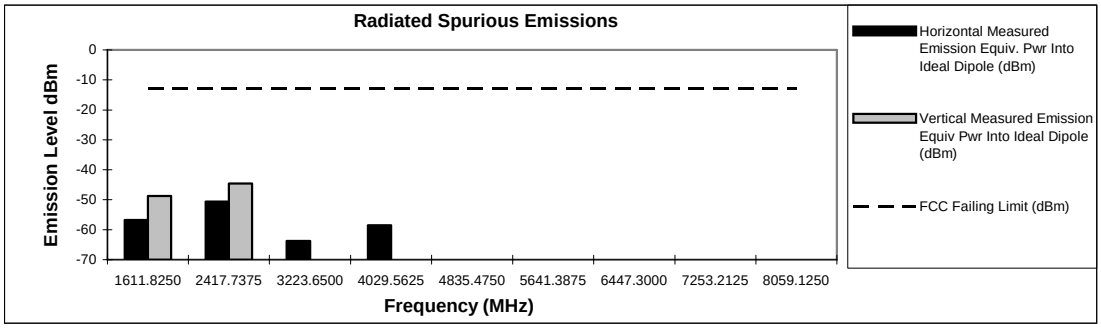
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (HPD Mode)

Tx Power: 12 Watts

805.9125 MHz **Channel Spacing 25kHz | S/N P7F1 HPD**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1611.8250	-13	-56.76	-48.74
2417.7375	-13	-50.59	-44.58
3223.6500	-13	-63.76	*
4029.5625	-13	-58.50	*
4835.4750	-13	*	*
5641.3875	-13	*	*
6447.3000	-13	*	*
7253.2125	-13	*	*
8059.1250	-13	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

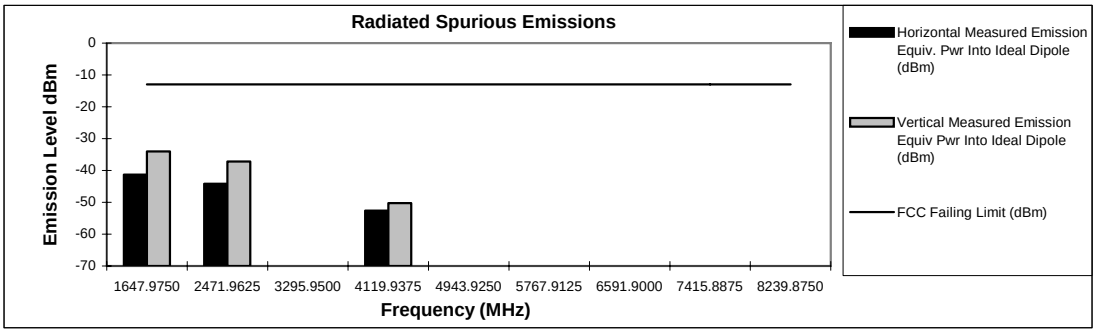
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (HPD Mode)

Tx Power: 12 Watts

823.9875 MHz **Channel Spacing 25kHz | S/N P7F1 HPD**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1647.9750	-13	-41.33	-34.03
2471.9625	-13	-44.22	-37.19
3295.9500	-13	*	*
4119.9375	-13	-52.65	-50.27
4943.9250	-13	*	*
5767.9125	-13	*	*
6591.9000	-13	*	*
7415.8875	-13	*	*
8239.8750	-13	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

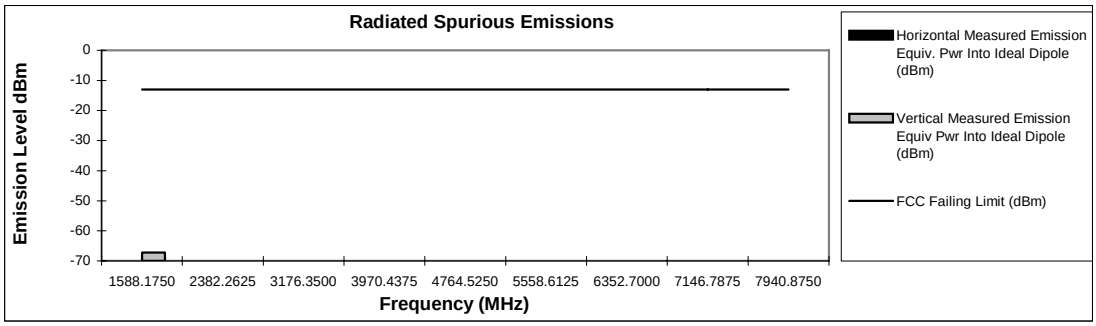
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (HPD Mode)

Tx Power: 1 Watts

794.0875 MHz **Channel Spacing 25kHz | S/N P7F1 HPD**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1588.1750	-13	*	-67.26
2382.2625	-13	*	*
3176.3500	-13	*	*
3970.4375	-13	*	*
4764.5250	-13	*	*
5558.6125	-13	*	*
6352.7000	-13	*	*
7146.7875	-13	*	*
7940.8750	-13	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

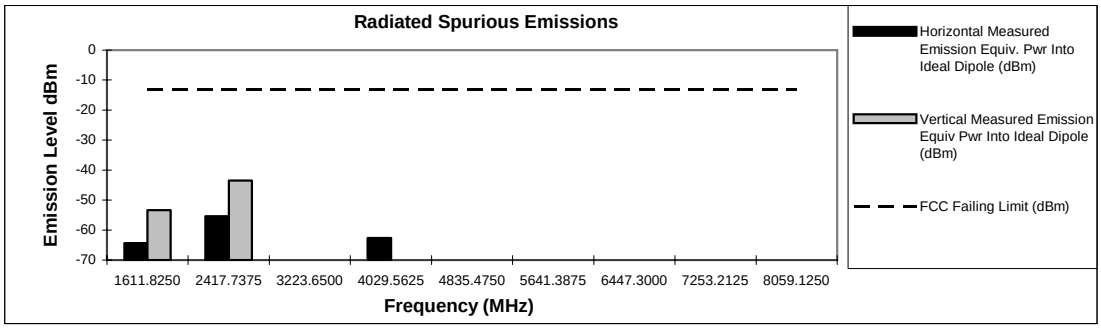
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (HPD Mode)

Tx Power: 1 Watts

805.9125 MHz **Channel Spacing 25kHz | S/N P7F1 HPD**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1611.8250	-13	-64.30	-53.37
2417.7375	-13	-55.43	-43.50
3223.6500	-13	*	*
4029.5625	-13	-62.64	*
4835.4750	-13	*	*
5641.3875	-13	*	*
6447.3000	-13	*	*
7253.2125	-13	*	*
8059.1250	-13	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

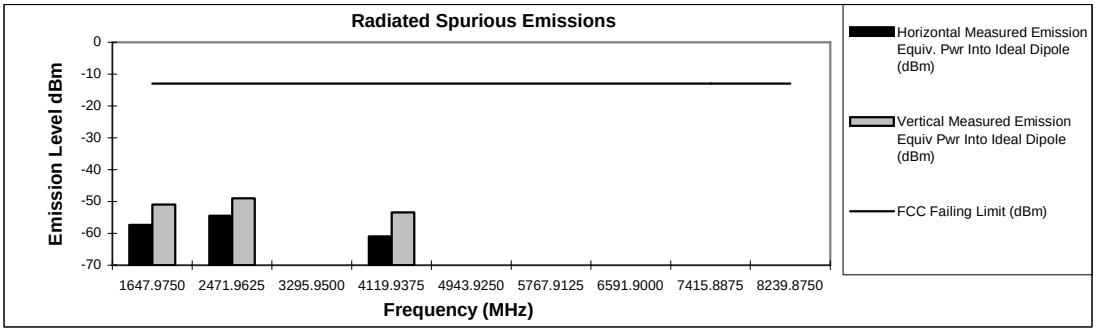
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (HPD Mode)

Tx Power: 1 Watts

823.9875 MHz **Channel Spacing 25kHz | S/N P7F1 HPD**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1647.9750	-13	-57.41	-50.96
2471.9625	-13	-54.47	-49.06
3295.9500	-13	*	*
4119.9375	-13	-60.96	-53.46
4943.9250	-13	*	*
5767.9125	-13	*	*
6591.9000	-13	*	*
7415.8875	-13	*	*
8239.8750	-13	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

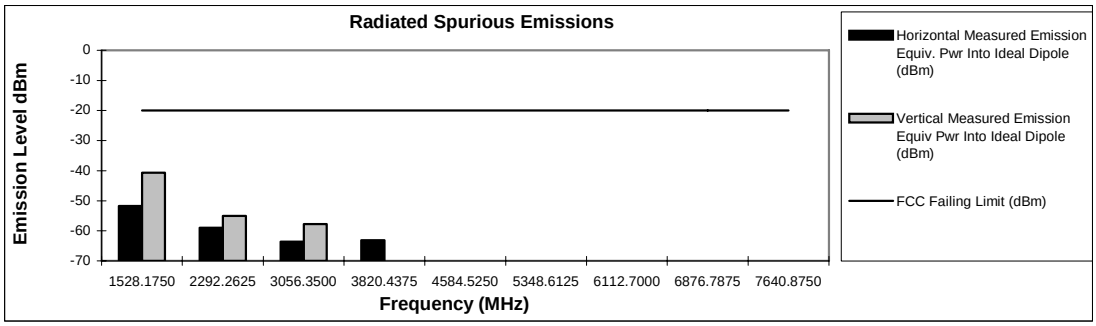
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (C4FM Mode)

Tx Power: 36 Watts

764.0875 MHz **Channel Spacing 12.5kHz | S/N P7F1 APCO**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1528.1750	-20	-51.71	-40.63
2292.2625	-20	-58.96	-55.05
3056.3500	-20	-63.64	-57.72
3820.4375	-20	-63.12	*
4584.5250	-20	*	*
5348.6125	-20	*	*
6112.7000	-20	*	*
6876.7875	-20	*	*
7640.8750	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

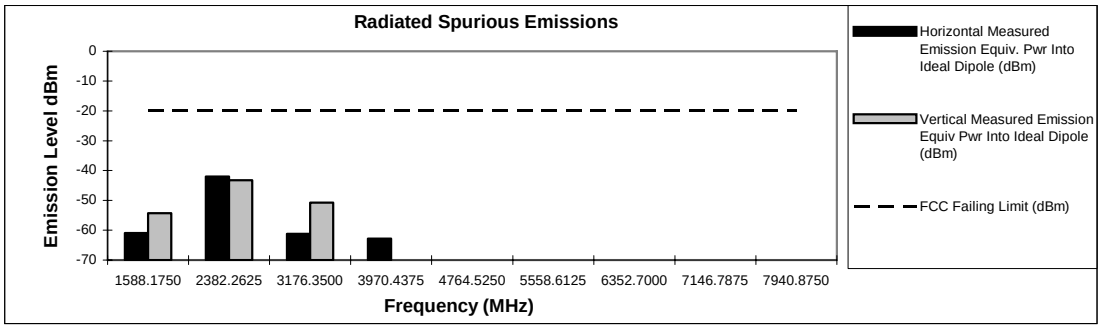
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (C4FM Mode)

Tx Power: 36 Watts

794.0875 MHz **Channel Spacing 12.5kHz | S/N P7F1 APCO**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1588.1750	-20	-60.91	-54.24
2382.2625	-20	-41.99	-43.28
3176.3500	-20	-61.20	-50.73
3970.4375	-20	-62.76	*
4764.5250	-20	*	*
5558.6125	-20	*	*
6352.7000	-20	*	*
7146.7875	-20	*	*
7940.8750	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

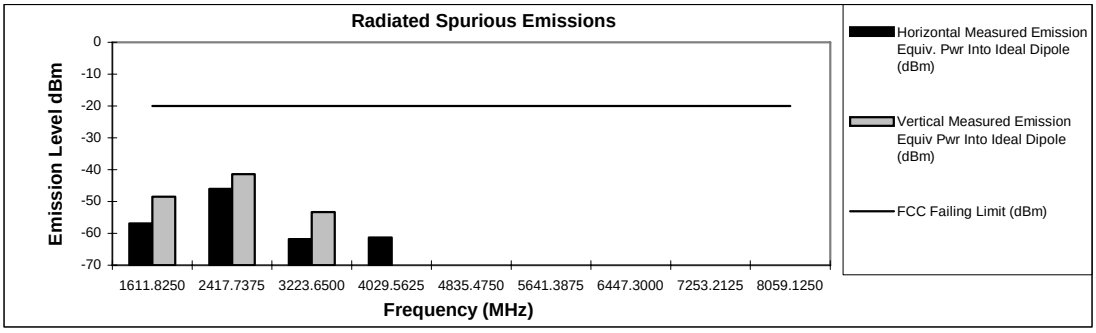
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (C4FM Mode)

Tx Power: 36 Watts

805.9125 MHz **Channel Spacing 12.5kHz | S/N P7F1 APCO**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1611.8250	-20	-56.93	-48.53
2417.7375	-20	-46.09	-41.41
3223.6500	-20	-61.85	-53.37
4029.5625	-20	-61.33	*
4835.4750	-20	*	*
5641.3875	-20	*	*
6447.3000	-20	*	*
7253.2125	-20	*	*
8059.1250	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

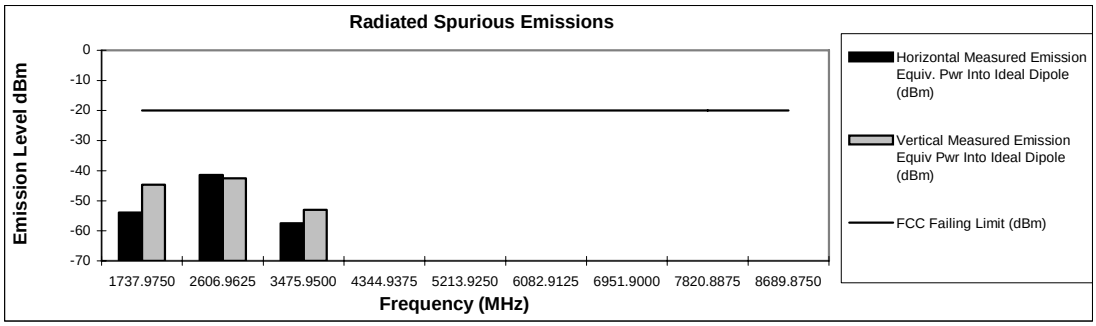
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (C4FM Mode)

Tx Power: 42 Watts

868.9875 MHz **Channel Spacing 12.5kHz | S/N P7F1 APCO**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1737.9750	-20	-53.97	-44.62
2606.9625	-20	-41.37	-42.55
3475.9500	-20	-57.48	-53.02
4344.9375	-20	*	*
5213.9250	-20	*	*
6082.9125	-20	*	*
6951.9000	-20	*	*
7820.8875	-20	*	*
8689.8750	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

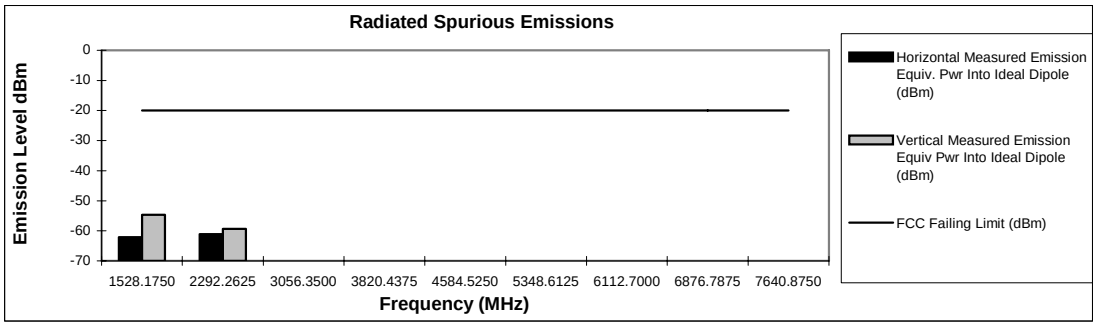
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (C4FM Mode)

Tx Power: 15 Watts

764.0875 MHz **Channel Spacing 12.5kHz | S/N P7F1 APCO**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1528.1750	-20	-62.07	-54.68
2292.2625	-20	-61.10	-59.32
3056.3500	-20	*	*
3820.4375	-20	*	*
4584.5250	-20	*	*
5348.6125	-20	*	*
6112.7000	-20	*	*
6876.7875	-20	*	*
7640.8750	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

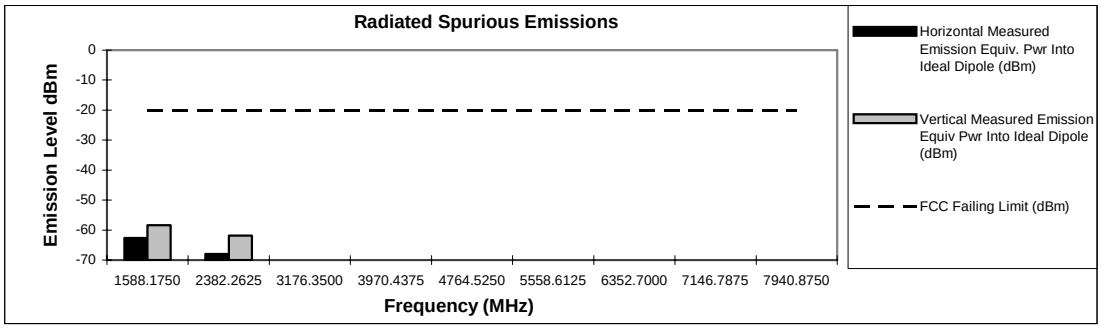
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (C4FM Mode)

Tx Power: 15 Watts

794.0875 MHz **Channel Spacing 12.5kHz | S/N P7F1 APCO**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1588.1750	-20	-62.68	-58.40
2382.2625	-20	-67.94	-61.79
3176.3500	-20	*	*
3970.4375	-20	*	*
4764.5250	-20	*	*
5558.6125	-20	*	*
6352.7000	-20	*	*
7146.7875	-20	*	*
7940.8750	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

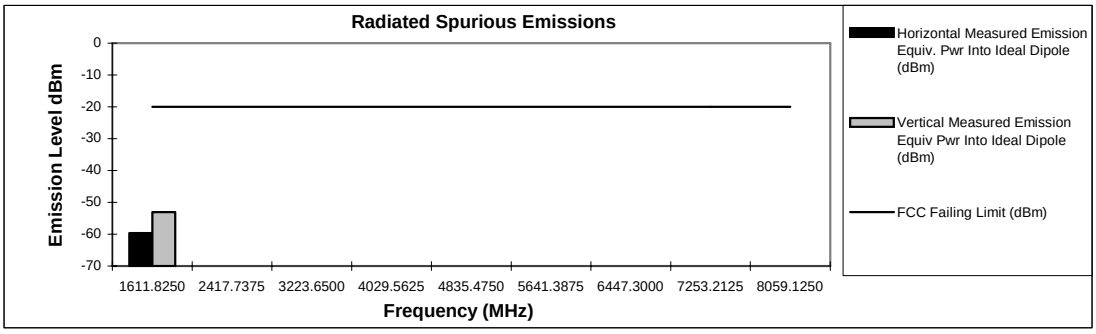
The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Transmit Radiated Spurious Emissions: HPD 1000 (C4FM Mode)

Tx Power: 15 Watts

805.9125 MHz **Channel Spacing 12.5kHz | S/N P7F1 APCO**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1611.8250	-20	-59.69	-53.04
2417.7375	-20	*	*
3223.6500	-20	*	*
4029.5625	-20	*	*
4835.4750	-20	*	*
5641.3875	-20	*	*
6447.3000	-20	*	*
7253.2125	-20	*	*
8059.1250	-20	*	*



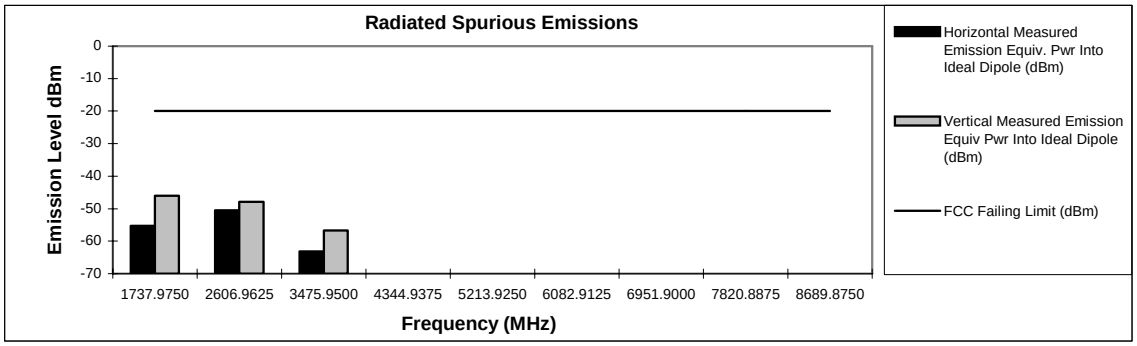
* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

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

Transmit Radiated Spurious Emissions: HPD 1000 (C4FM Mode)

868.9875 MHz **Channel Spacing 12.5kHz | S/N P7F1 APCO**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1737.9750	-20	-55.28	-46.06
2606.9625	-20	-50.50	-47.93
3475.9500	-20	-63.20	-56.72
4344.9375	-20	*	*
5213.9250	-20	*	*
6082.9125	-20	*	*
6951.9000	-20	*	*
7820.8875	-20	*	*
8689.8750	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

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

GNSS Testing
ADD +2.15 dB for EIRP

Date: 2/20/2006
Product: HPD1000 **S/N** P7F8
Notes: ANT: 3 dB Collinear (HAF4017A)

Tx Freq. 794.0875

Spur	Frequency MHz	Peak Radiated Spurious Emissions: C4FM Mode (dBm)	Peak Radiated Spurious Emissions: HPD Mode (dBm)
2XFund	1588.1750	-42.60	-45.17

Notes: ANT: 3 dB Collinear (HAF4017A)

Tx Freq. 805.9125

Spur	Frequency MHz	Peak Radiated Spurious Emissions: C4FM Mode (dBm)	Peak Radiated Spurious Emissions: HPD Mode (dBm)
2XFund	1611.8250	-42.70	-44.89

GNSS Testing
ADD +2.15 dB for EIRP

Date: 2/20/2006
Product: HPD1000 **S/N** P7F8
Notes: ANT: Quarter Wave (HAF4016A)

Tx Freq. 794.0875

Spur	Frequency MHz	Peak Radiated Spurious Emissions: C4FM Mode (dBm)	Peak Radiated Spurious Emissions: HPD Mode (dBm)
2XFund	1588.1750	-47.10	-49.67

Notes: ANT: Quarter Wave (HAF4016A)

Tx Freq. 805.9125

Spur	Frequency MHz	Peak Radiated Spurious Emissions: C4FM Mode (dBm)	Peak Radiated Spurious Emissions: HPD Mode (dBm)
2XFund	1611.8250	-46.70	-48.89

Note 1: The reported emissions are wideband (>700Hz) spurs.

GNSS Testing
ADD +2.15 dB for EIRP

Date: 2/20/2006
Product: HPD1000 **S/N** P7F8
Notes: ANT: Elevated 3 dB (HAF4014A)

Tx Freq. 794.0875

Spur	Frequency MHz	Peak Radiated Spurious Emissions: C4FM Mode (dBm)	Peak Radiated Spurious Emissions: HPD Mode (dBm)
2XFund	1588.1750	-56.85	-59.42

Notes: ANT: Elevated 3 dB (HAF4014A)

Tx Freq. 805.9125

Spur	Frequency MHz	Peak Radiated Spurious Emissions: C4FM Mode (dBm)	Peak Radiated Spurious Emissions: HPD Mode (dBm)
2XFund	1611.8250	-54.20	-56.39

GNSS Testing
ADD +2.15 dB for EIRP

Date: 2/20/2006
Product: HPD1000 **S/N** P7F8
Notes: ANT: 3 dB Low Profile (HAF4013A)

Tx Freq. 794.0875

Spur	Frequency MHz	Peak Radiated Spurious Emissions: C4FM Mode (dBm)	Peak Radiated Spurious Emissions: HPD Mode (dBm)
2XFund	1588.1750	-43.50	-46.07

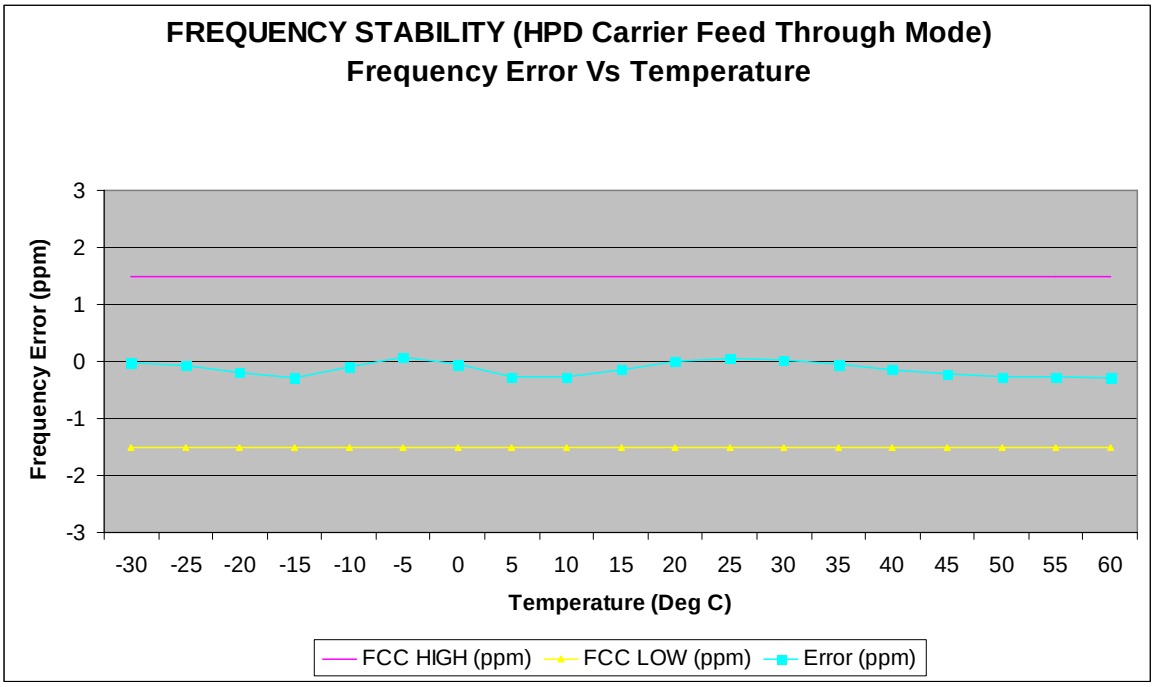
Notes: ANT: 3 dB Low Profile (HAF4013A)

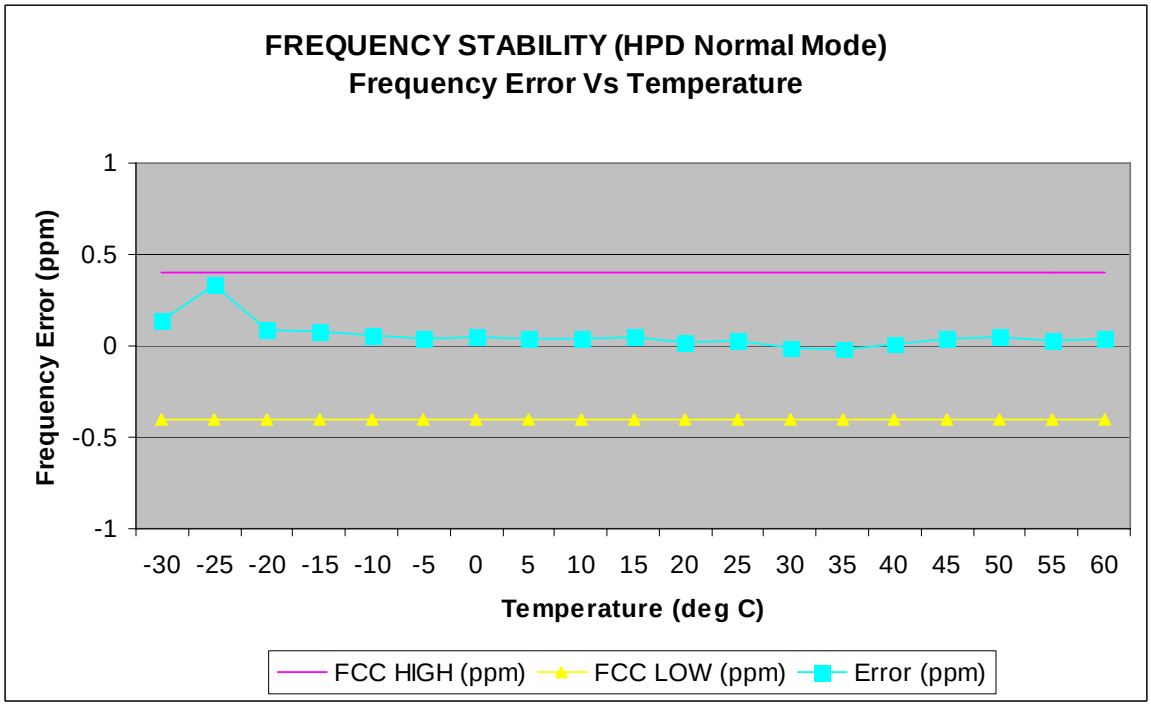
Tx Freq. 805.9125

Spur	Frequency MHz	Peak Radiated Spurious Emissions: C4FM Mode (dBm)	Peak Radiated Spurious Emissions: HPD Mode (dBm)
2XFund	1611.8250	-43.45	-45.64

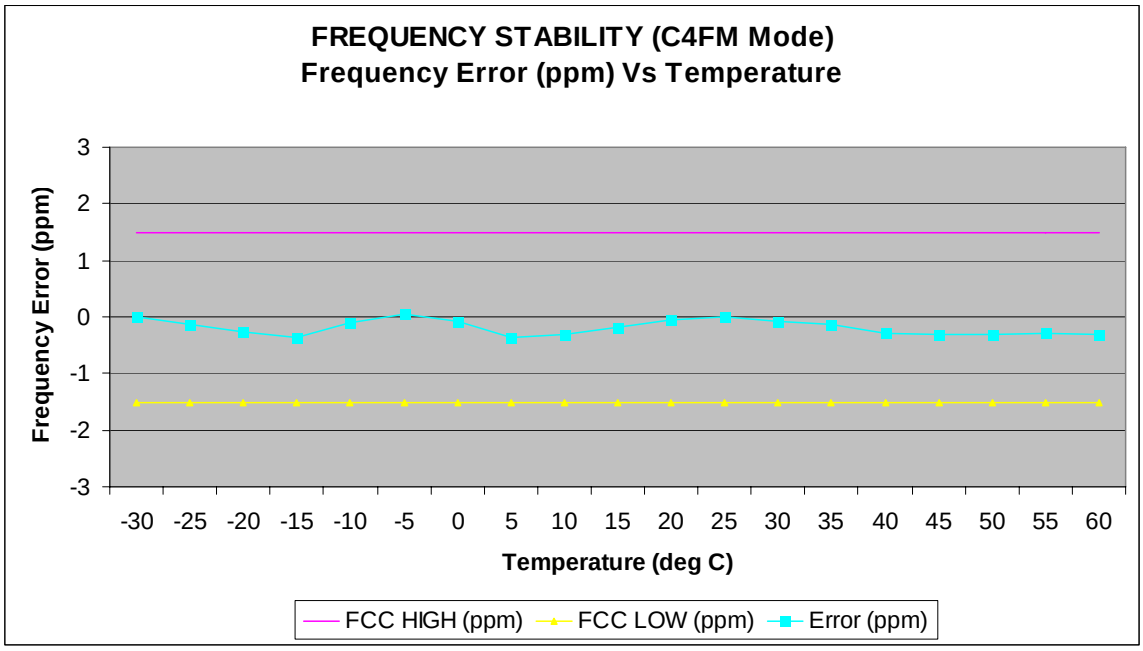
Note 1: The reported emissions are wideband (>700Hz) spurs.

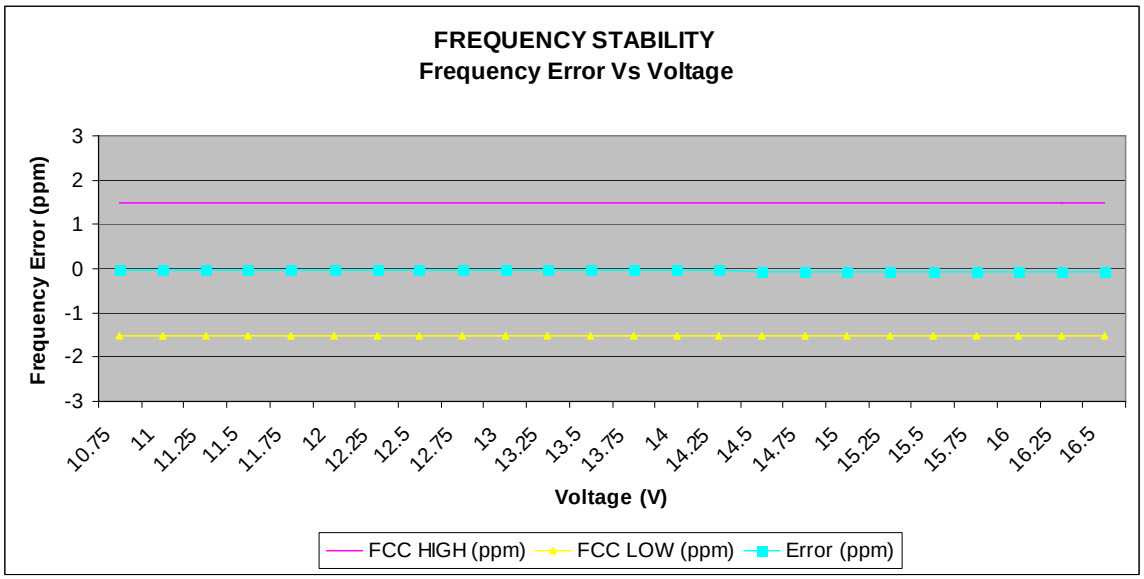
High Performance Data (HPD) Mode





Compatible 4-Level Frequency Modulation (C4FM) Mode




FREQUENCY STABILITY
Frequency Error Vs Voltage
Frequency Error (ppm)
3
2
1
0
-1
-2
-3
10.75
11
11.25
11.5
11.75
12
12.25
12.5
12.75
13
13.25
13.5
13.75
14
14.25
14.5
14.75
15
15.25
15.5
15.75
16
16.25
16.5
Voltage (V)
FCC HIGH (ppm)
FCC LOW (ppm)
Error (ppm)