

INDEX OF SUBMITTED MEASURED DATA FOR PART 22 AND PART 74

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

EXHIBIT 6A (ADDENDUM) - RF Power Output (Table)

EXHIBIT 6E (SUPPLEMENTAL) – Modulation Techniques and Occupied Bandwidth (6 Spectrum Analyzer Plots)

- 6E-21 – 25 kHz, 2500 Hz Audio Modulation Only, 54 Watts, 158.490 MHz (PART 22)
- 6E-22 – 25 kHz, 2500 Hz Audio Modulation Only, 54 Watts, 158.490 MHz (CLOSE-UP) (PART 22)
- 6E-23 – 25 kHz, 2500 Hz Audio Modulation Only, 54 Watts, 161.625 MHz (PART 74)
- 6E-24 – 25 kHz, 2500 Hz Audio Modulation Only, 54 Watts, 161.625 MHz (CLOSE-UP) (PART 74)
- 6E-25 – 12.5 kHz, 2500 Hz Audio Modulation Only, 54 Watts, 158.490 MHz (PART 74)
- 6E-26 – 12.5 kHz, 2500 Hz Audio Modulation Only, 54 Watts, 158.490 MHz (CLOSE-UP) (PART 74)

EXHIBIT 6F (ADDENDUM) - Conducted Spurious Emissions (6 Graphs)

- 6F-7 – 54 Watts, 158.490 MHz (PART 22)
- 6F-8 – 54 Watts, 161.625 MHz (PART 74)
- 6F-9 – 54 Watts, 170.150 MHz (PART 74)
- 6F-10 – 25 Watts, 158.490 MHz (PART 22)
- 6F-11 – 25 Watts, 161.625 MHz (PART 74)
- 6F-12 – 25 Watts, 170.150 MHz (PART 74)

EXHIBIT 6G (ADDENDUM) – Radiated Spurious Emissions – (6 Graphs)

- 6G-17 – 54 Watts, 158.490 MHz, 25 kHz (PART 22)
- 6G-18 – 54 Watts, 161.625 MHz, 25 kHz (PART 74)
- 6G-19 – 54 Watts, 170.150 MHz, 12.5 kHz (PART 74)
- 6G-20 – 25 Watts, 158.490 MHz, 25 kHz (PART 22)
- 6G-21 – 25 Watts, 161.625 MHz, 25 kHz (PART 74)
- 6G-22 – 25 Watts, 170.150 MHz, 12.5 kHz (PART 74)

RF OUTPUT DATA

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device, pursuant to 47 CFR 2.1033(c)(8) and 2.1046.

Serial Number of Radio: 776TPH0115

HIGH POWER SETTING, FREQUENCY 158.490 MHz (PART 22)

Measured RF Output Power:	54.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	7.63 Amperes
Measured DC Input Power:	103.8 Watts

LOW POWER SETTING, FREQUENCY 158.490 MHz (PART 22)

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	5.20 Amperes
Measured DC Input Power:	70.8 Watts

HIGH POWER SETTING, FREQUENCY 161.625 MHz (PART 74)

Measured RF Output Power:	54.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	7.40 Amperes
Measured DC Input Power:	100.7 Watts

LOW POWER SETTING, FREQUENCY 158.490 MHz (PART 74)

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	5.11 Amperes
Measured DC Input Power:	69.5 Watts

HIGH POWER SETTING, FREQUENCY 170.150 MHz (PART 74)

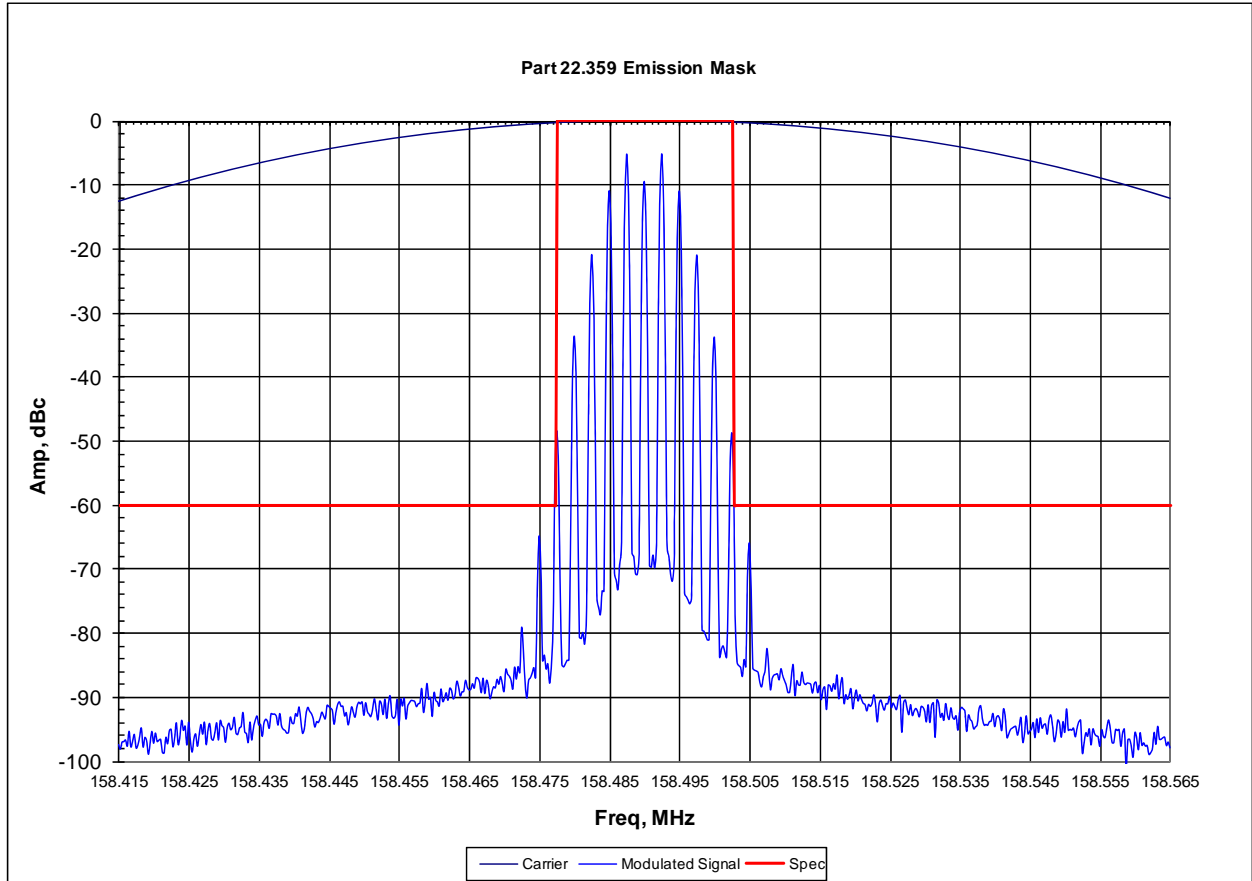
Measured RF Output Power:	54.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	8.47 Amperes
Measured DC Input Power:	115.1 Watts

LOW POWER SETTING, FREQUENCY 170.150 MHz (PART 74)

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	5.85 Amperes
Measured DC Input Power:	79.5 Watts

OCCUPIED BANDWIDTH MEASUREMENT FOR 158.490 MHz
25 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH
EMISSION MASK: Part 22.359

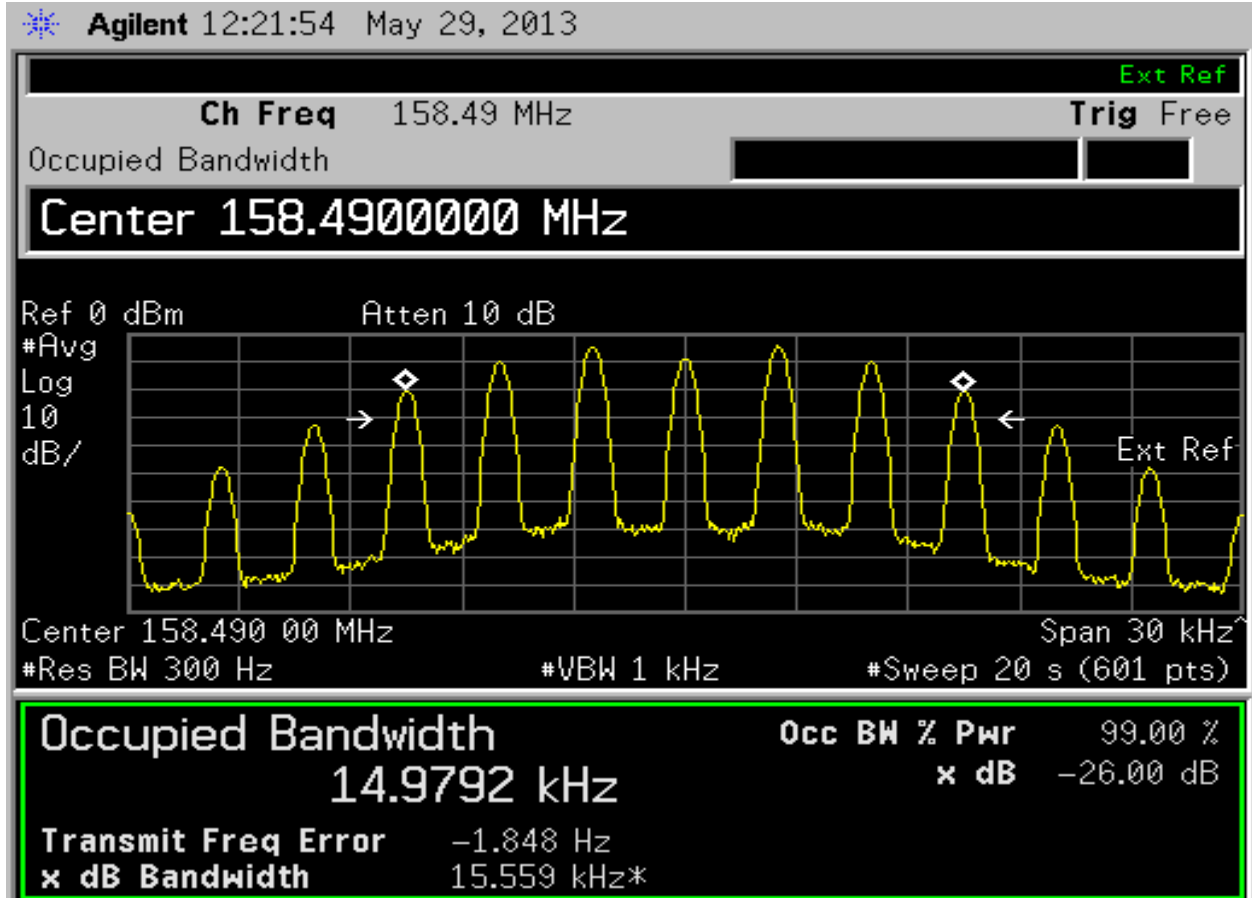
Supertanapa: PMUD3240AABNAA; Model: AAM02JQH9JA1AN; S/N: 776TPH0115



CENTER FREQUENCY:	158.490 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	1 kHz
SPAN:	150 kHz
DETECTOR MODE:	AVG
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	50 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dB (47.3 dBm = 54W)
ATTENUATION:	47 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR 158.490 MHz
 25 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH
 EMISSION MASK: Part 22.359

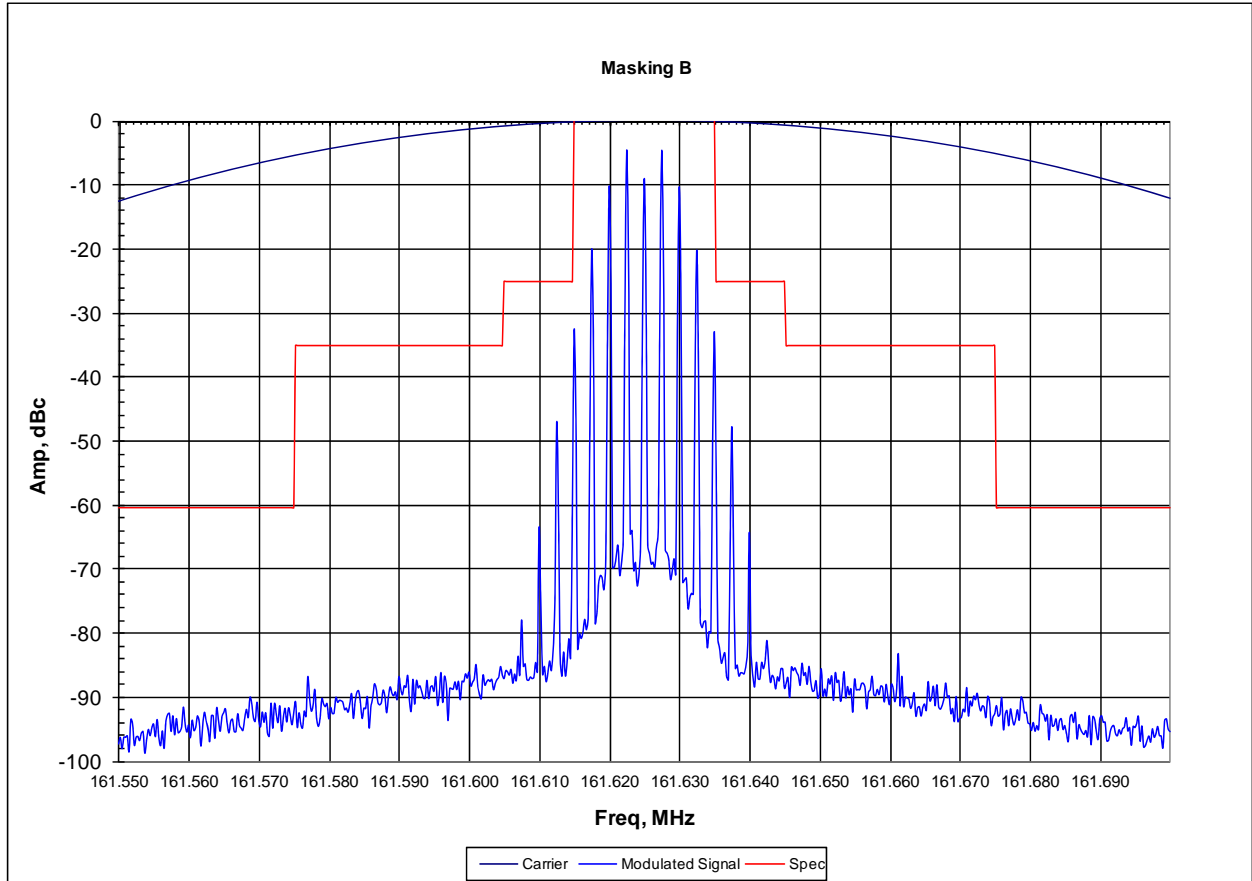
Supertanapa: PMUD3240AABNAA; Model: AAM02JQH9JA1AN; S/N: 776TPH0115
 (CLOSE-UP FOR MEASURED OCCUPIED BW)



CENTER FREQUENCY:	158.490 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	1 kHz
SPAN:	30 kHz
DETECTOR MODE:	AVG
HORIZONTAL SCALE:	3 kHz/div
SWEEP TIME:	20 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dB (47.3 dBm = 54W)
ATTENUATION:	47 dB
MEASURED OCCUPIED BW:	14.9792 kHz

OCCUPIED BANDWIDTH MEASUREMENT FOR 161.625 MHz
25 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH
EMISSION MASK: B (PART 74)

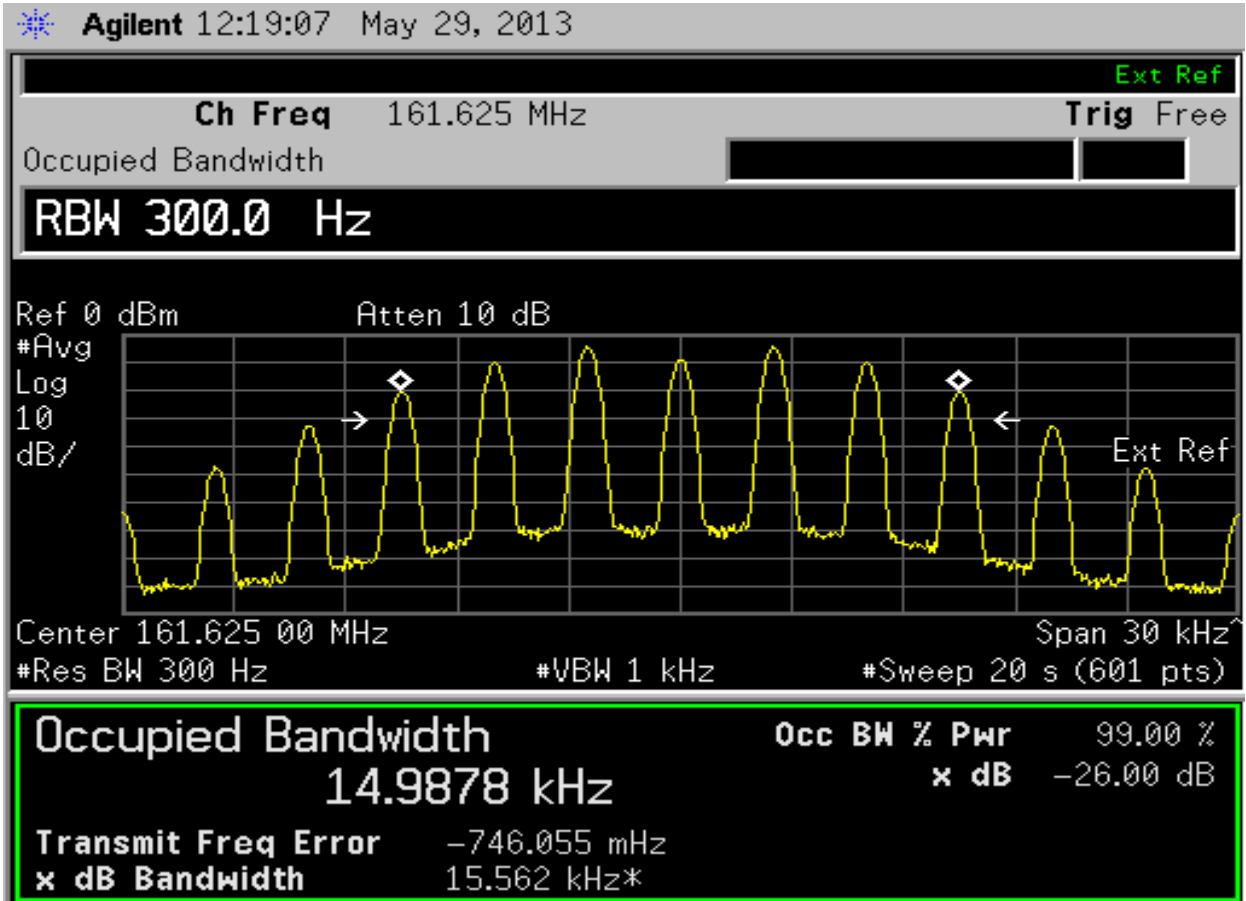
Supertanapa: PMUD3240AABNAA; Model: AAM02JQH9JA1AN; S/N: 776TPH0115



CENTER FREQUENCY:	161.625 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	1 kHz
SPAN:	150 kHz
DETECTOR MODE:	PEAK
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	50 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dB (47.3 dBm = 54W)
ATTENUATION:	47 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR 161.625 MHz
 25 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH
 EMISSION MASK: B (PART 74)

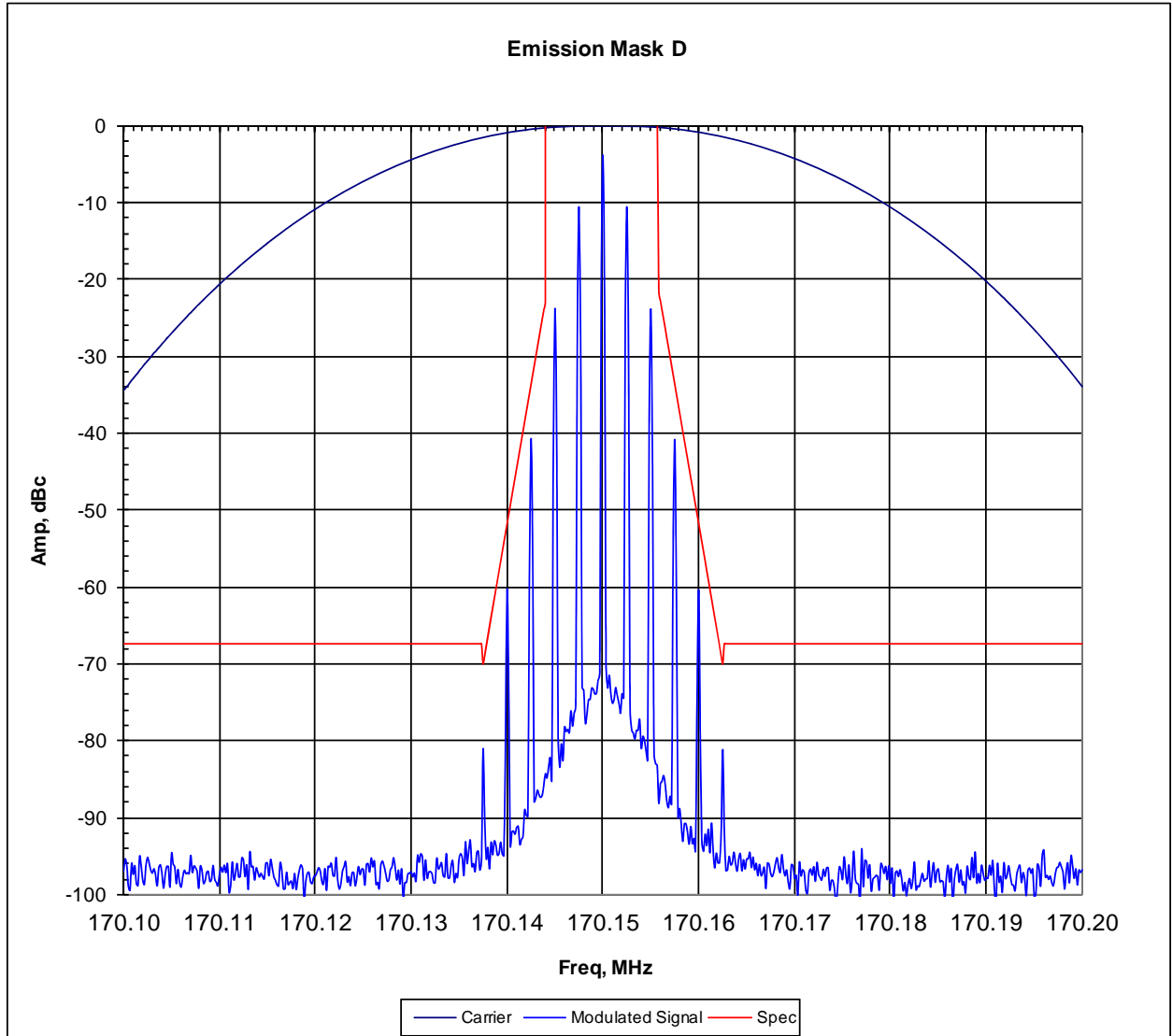
Supertanapa: PMUD3240AABNAA; Model: AAM02JQH9JA1AN; S/N: 776TPH0115
 (CLOSE-UP FOR MEASURED OCCUPIED BW)



CENTER FREQUENCY:	161.625 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	1 kHz
SPAN:	30 kHz
DETECTOR MODE:	AVG
HORIZONTAL SCALE:	3 kHz/div
SWEEP TIME:	20 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dB (47.3 dBm = 54W)
ATTENUATION:	47 dB
MEASURED OCCUPIED BW:	14.9878 kHz

OCCUPIED BANDWIDTH MEASUREMENT FOR 170.150 MHz
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH
EMISSION MASK: D (PART 74)

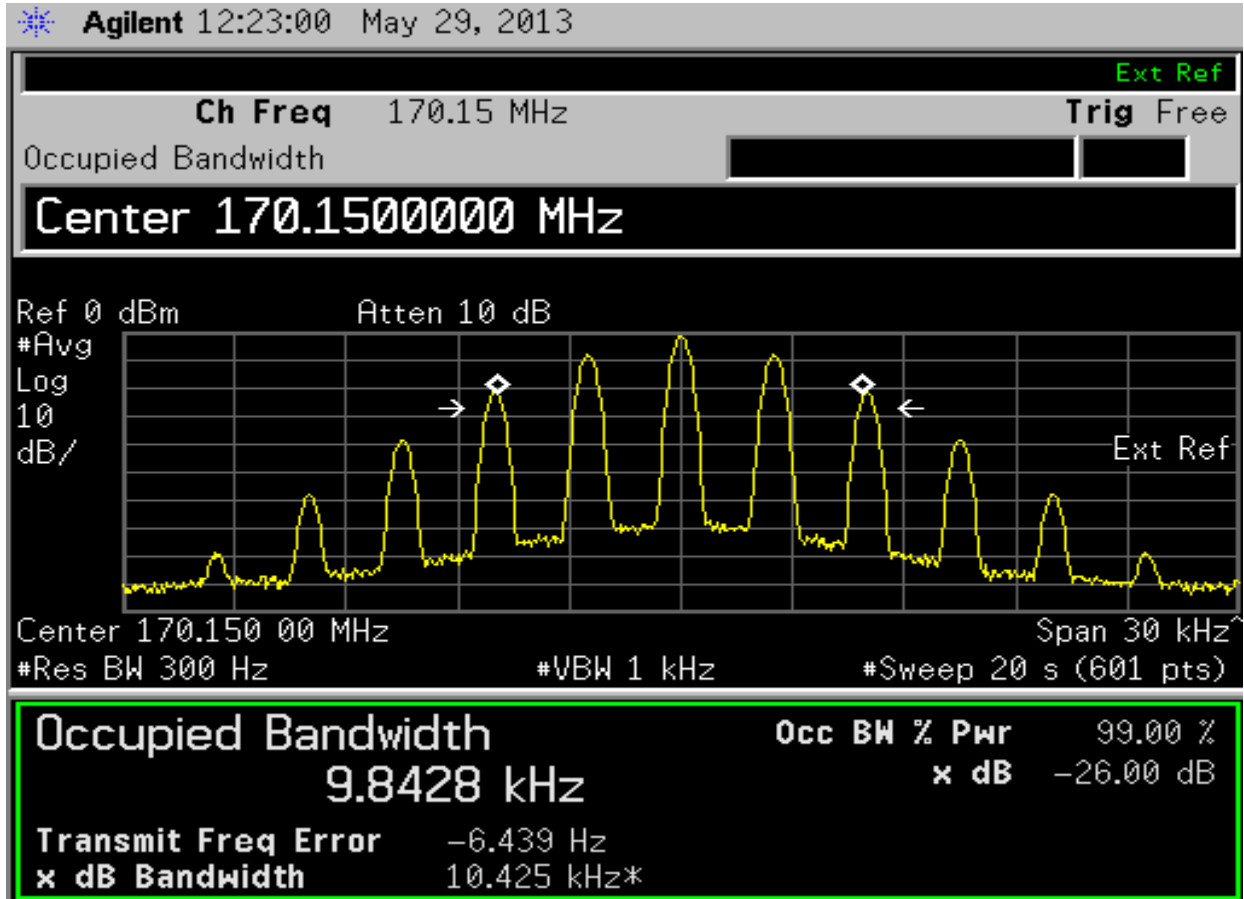
Supertanapa: PMUD3240AABNAA; Model: AAM02JQH9JA1AN; S/N: 776TPH0115



CENTER FREQUENCY:	170.150 MHz
RESOLUTION BANDWIDTH:	100 Hz
VIDEO BANDWIDTH:	1 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	50 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dB (47.3 dBm = 54W)
ATTENUATION:	47 dB

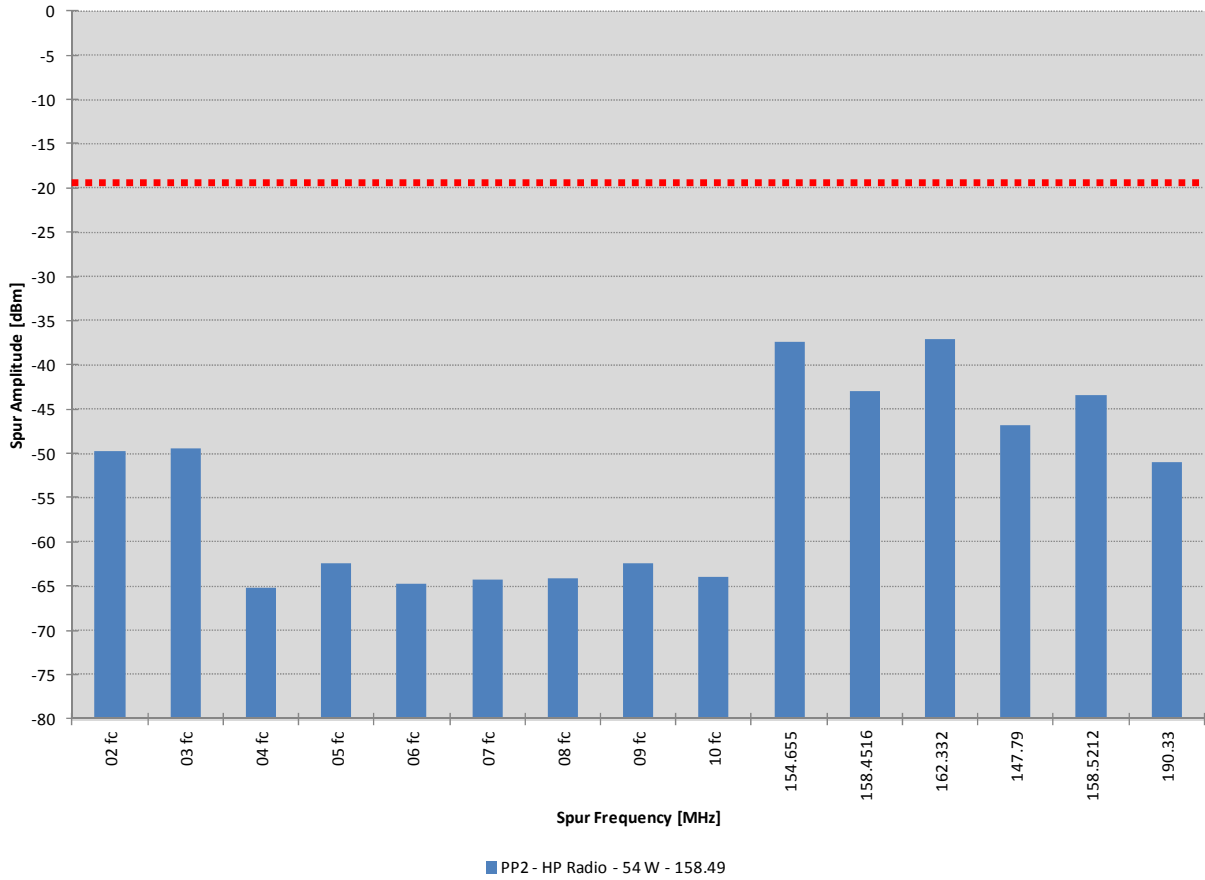
OCCUPIED BANDWIDTH MEASUREMENT FOR 170.150 MHz
 12.5 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH
 EMISSION MASK: D (PART 74)

Supertanapa: PMUD3240AABNAA; Model: AAM02JQH9JA1AN; S/N: 776TPH0115
 (CLOSE-UP FOR MEASURED OCCUPIED BW)



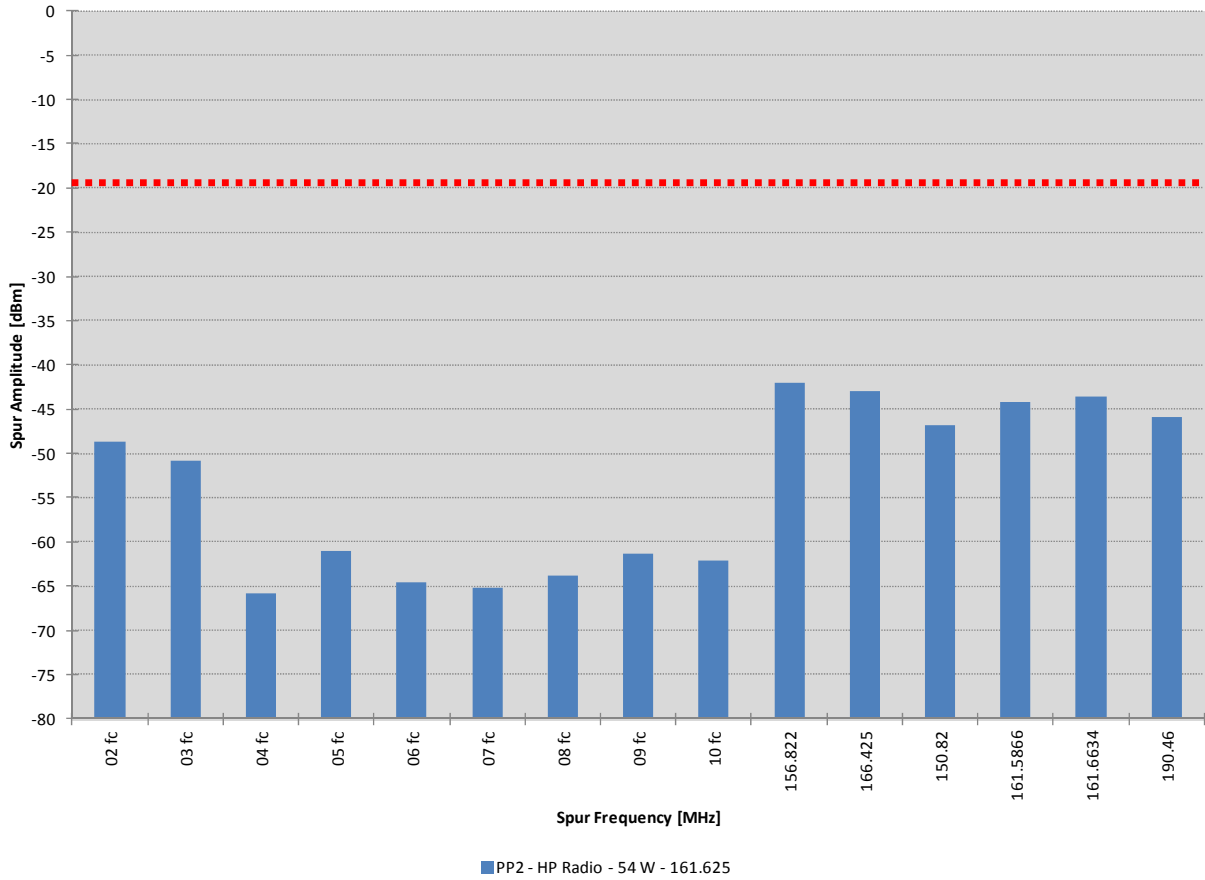
CENTER FREQUENCY:	170.150 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	1 kHz
SPAN:	30 kHz
DETECTOR MODE:	AVG
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	20 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dB (47.3 dBm = 54W)
ATTENUATION:	47 dB
MEASURED OCCUPIED BW:	9.8428 KHz

CONDUCTED SPURIOUS EMISSIONS
HIGH POWER (54W), 158.490 MHz, 25 kHz BW Spacing
PART 22
S/N: 776TPH0115



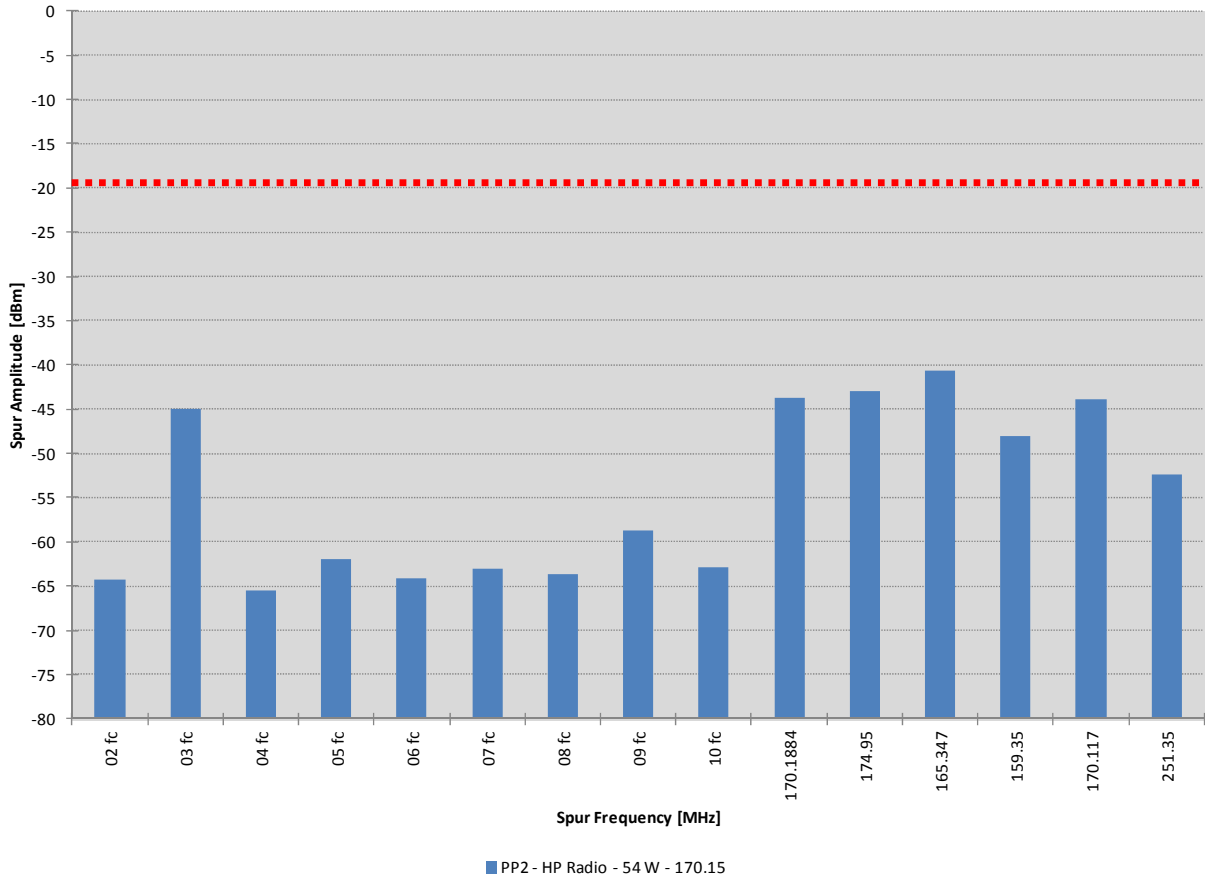
The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -20 dBm

**CONDUCTED SPURIOUS EMISSIONS
HIGH POWER (54W), 161.625 MHz, 25 kHz BW Spacing
PART 74
S/N: 776TPH0115**



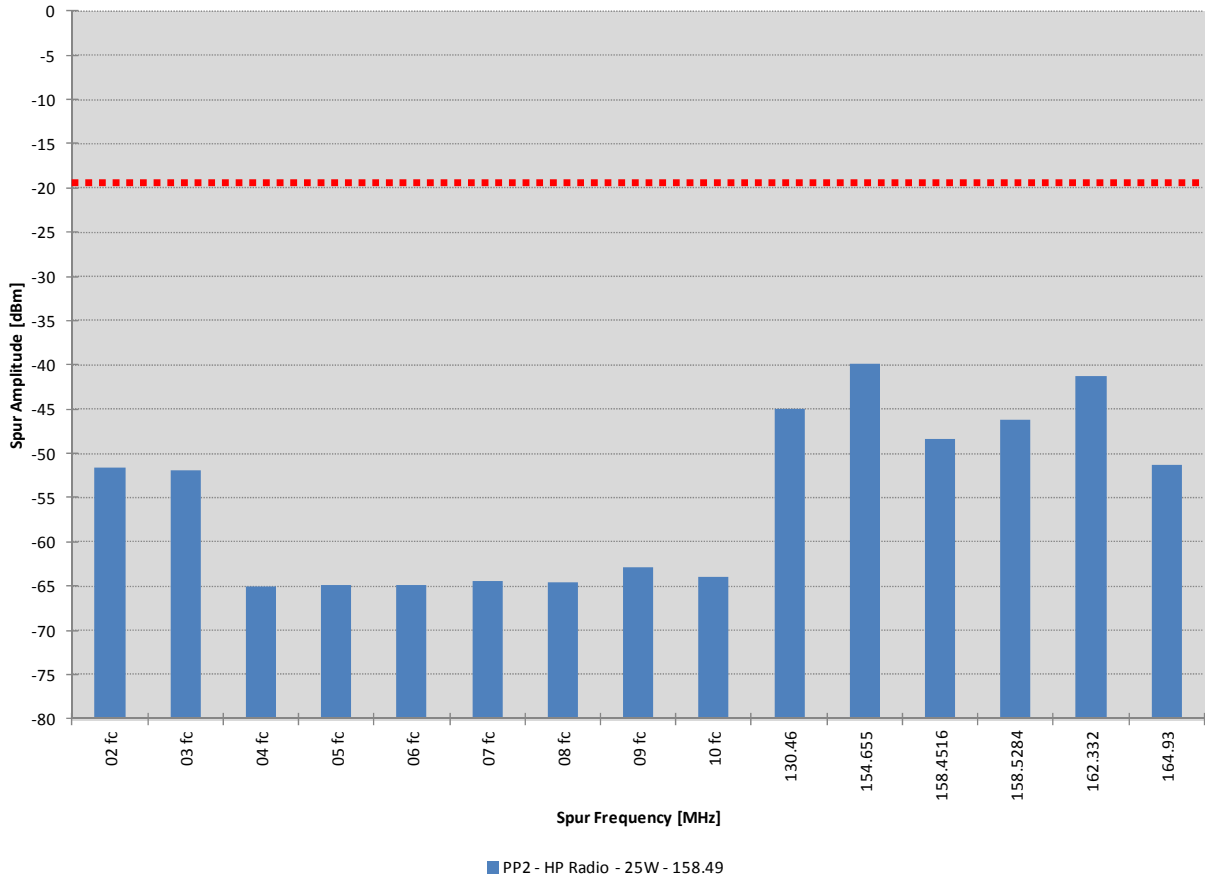
The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -20 dBm.

CONDUCTED SPURIOUS EMISSIONS
HIGH POWER (54W), 170.150 MHz, 12.5 kHz BW Spacing
PART 74
S/N: 776TPH0115



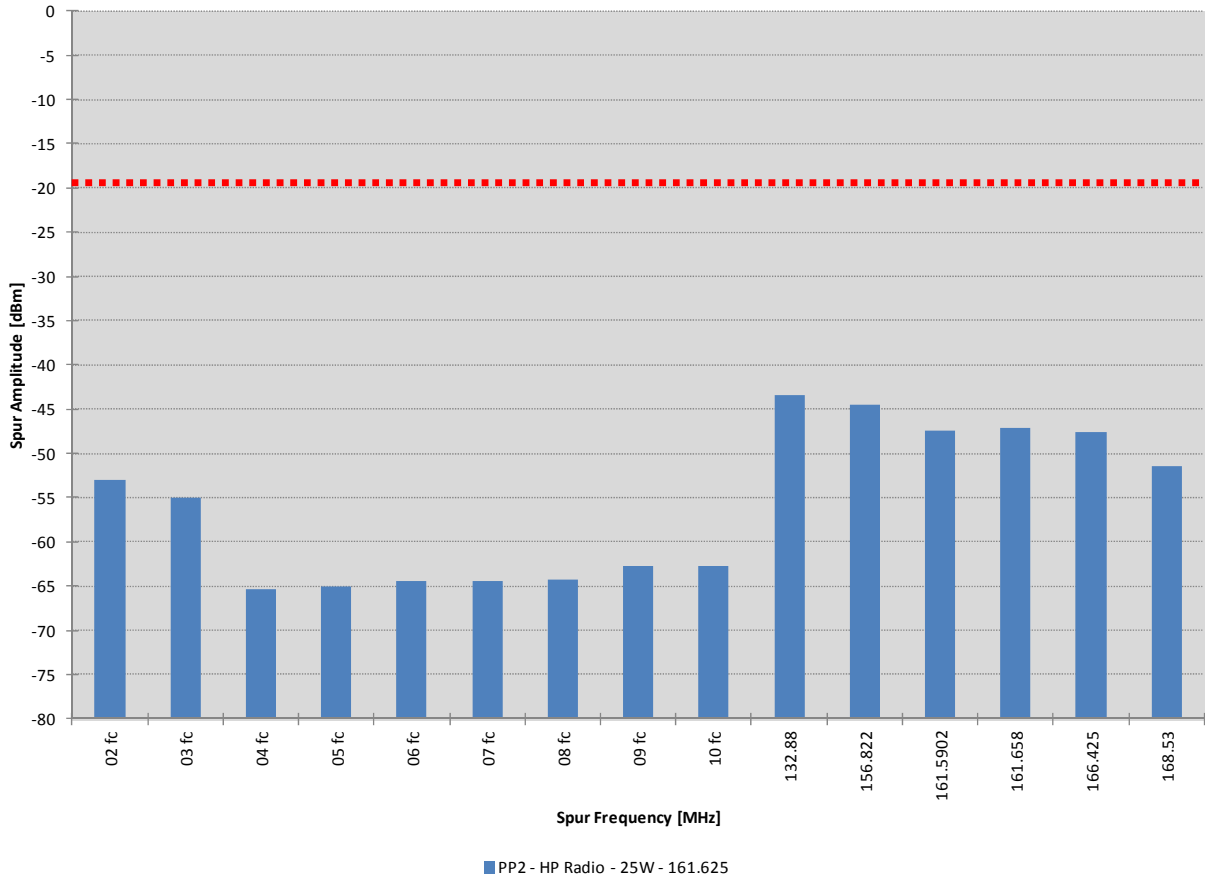
The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -20 dBm.

CONDUCTED SPURIOUS EMISSIONS
LOW POWER (25W), 158.490 MHz, 25 kHz BW Spacing
PART 22
S/N: 776TPH0115



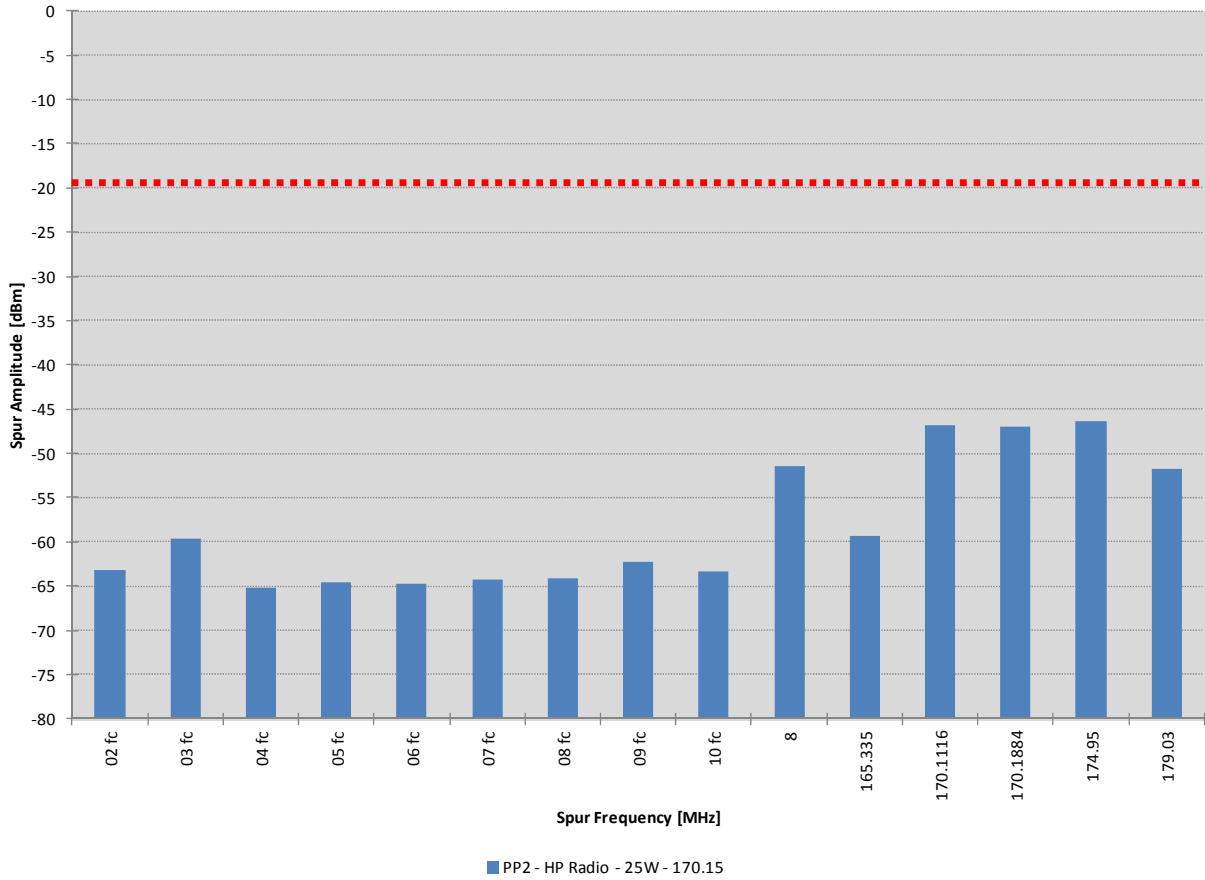
The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -20 dBm.

CONDUCTED SPURIOUS EMISSIONS
LOW POWER (25W), 161.625 MHz, 25 kHz BW Spacing
PART 74
S/N: 776TPH0115



The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -20 dBm.

CONDUCTED SPURIOUS EMISSIONS
LOW POWER 25 W, 170.150 MHz, 12.5 kHz BW Spacing
PART 74
S/N: 776TPH0115



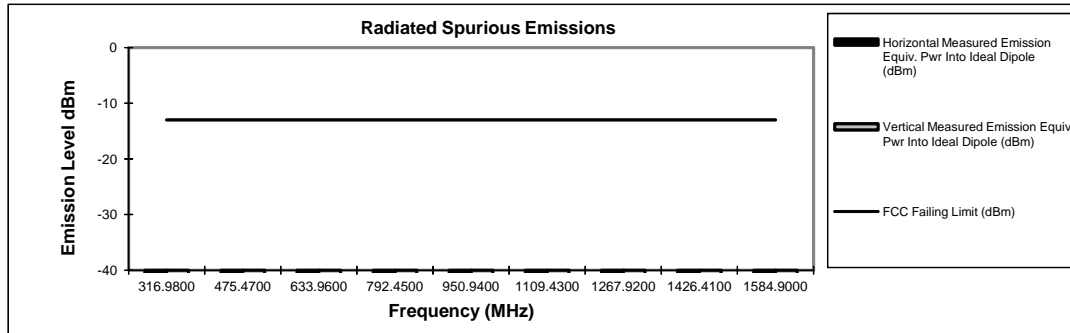
The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -20 dBm.

Transmit Radiated Spurious Emissions: PMUD3240AABNAA
Tx Power: 54 Watts

158.49 MHz

Channel Spacing 25kHz | S/N 776TPH0115

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
316.9800	-13	*	*
475.4700	-13	*	*
633.9600	-13	*	*
792.4500	-13	*	*
950.9400	-13	*	*
1109.4300	-13	*	*
1267.9200	-13	*	*
1426.4100	-13	*	*
1584.9000	-13	*	*

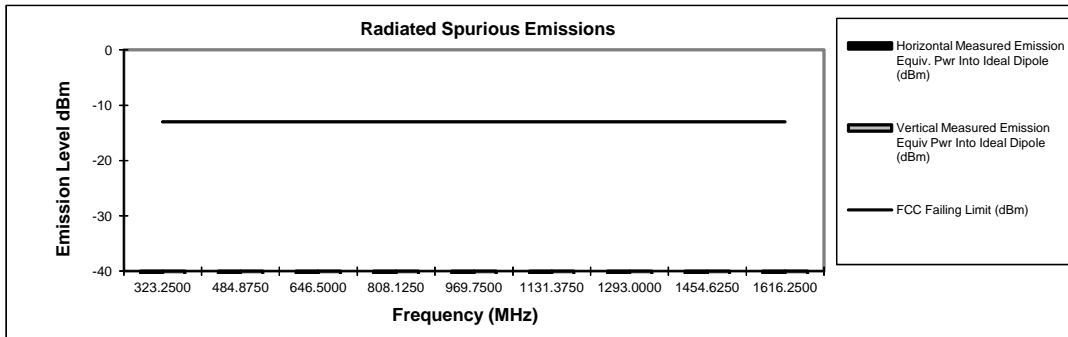


Transmit Radiated Spurious Emissions: PMUD3240AABNAA
Tx Power: 54 Watts

161.625 MHz

Channel Spacing 25kHz | S/N 776TPH0115

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
323.2500	-13	*	*
484.8750	-13	*	*
646.5000	-13	*	*
808.1250	-13	*	*
969.7500	-13	*	*
1131.3750	-13	*	*
1293.0000	-13	*	*
1454.6250	-13	*	*
1616.2500	-13	*	*



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

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

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

Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero

May 17, 2013

FCC Registration: 91932 / Industry Canada: IC109U-1

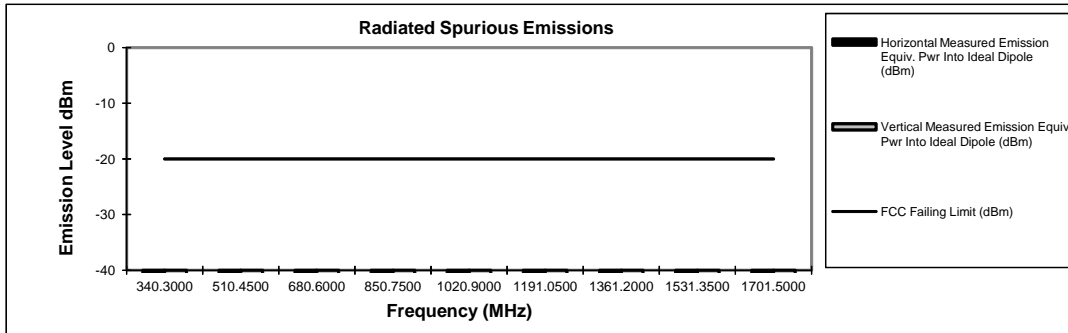
Transmit Radiated Spurious Emissions: PMUD3240AABNAA

Tx Power: 54 Watts

170.15 MHz

Channel Spacing 12.5kHz | S/N 776TPH0115

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
340.3000	-20	*	*
510.4500	-20	*	*
680.6000	-20	*	*
850.7500	-20	*	*
1020.9000	-20	*	*
1191.0500	-20	*	*
1361.2000	-20	*	*
1531.3500	-20	*	*
1701.5000	-20	*	*



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

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

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

Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero

May 16, 2013

FCC Registration: 91932 / Industry Canada: IC109U-1

Motorola Solutions

FCC ID:ABZ99FT3091 / IC ID:109AB-99FT3091

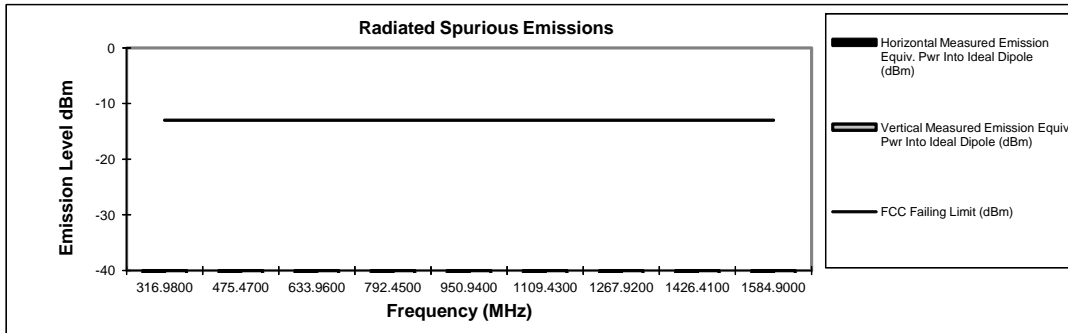
Transmit Radiated Spurious Emissions: PMUD3240AABNAA

Tx Power: 25 Watts

158.49 MHz

Channel Spacing 25kHz | S/N 776TPH0115

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
316.9800	-13	*	*
475.4700	-13	*	*
633.9600	-13	*	*
792.4500	-13	*	*
950.9400	-13	*	*
1109.4300	-13	*	*
1267.9200	-13	*	*
1426.4100	-13	*	*
1584.9000	-13	*	*



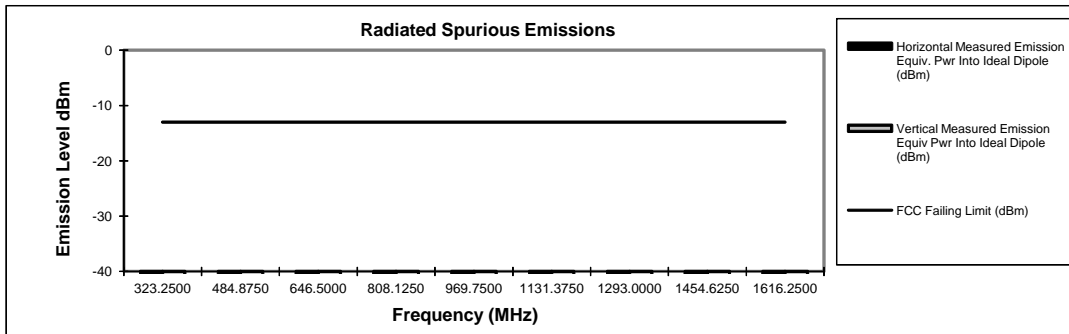
Transmit Radiated Spurious Emissions: PMUD3240AABNAA

Tx Power: 25 Watts

161.625 MHz

Channel Spacing 25kHz | S/N 776TPH0115

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
323.2500	-13	*	*
484.8750	-13	*	*
646.5000	-13	*	*
808.1250	-13	*	*
969.7500	-13	*	*
1131.3750	-13	*	*
1293.0000	-13	*	*
1454.6250	-13	*	*
1616.2500	-13	*	*



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

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

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

Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero

May 17, 2013

FCC Registration: 91932 / Industry Canada: IC109U-1

Motorola Solutions

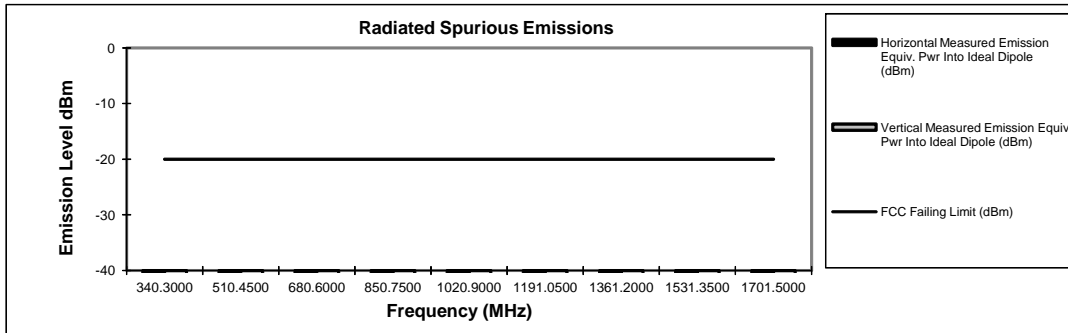
FCC ID:ABZ99FT3091 / IC ID:109AB-99FT3091

Transmit Radiated Spurious Emissions: PMUD3240AABNAA
 Tx Power: 25 Watts

170.15 MHz

Channel Spacing 12.5kHz | S/N 776TPH0115

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
340.3000	-20	*	*
510.4500	-20	*	*
680.6000	-20	*	*
850.7500	-20	*	*
1020.9000	-20	*	*
1191.0500	-20	*	*
1361.2000	-20	*	*
1531.3500	-20	*	*
1701.5000	-20	*	*



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

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

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.
Motorola Plantation EMC Lab – Test Performed by: Alberto Cordero **May 16, 2013**
FCC Registration: 91932 / Industry Canada: IC109U-1