

Exhibit 6: Test Report

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Exhibit 6

EXHIBIT 6A: RF Power Output -- Pursuant 47 CFR 2.1046 & 95.639
(Test Conducted at Motorola EME accredited lab in January 2016)

A. Conducted Transmit Power

Test Frequency (MHz)	Transmit Power (W)
151.82	2.00
154.6	2.00

Table 1. RF Power Output

B. Effective Radiated Power 95.632(b)(7)

Please see attached TIMCO 121AUT16 Test Report test report as part of the package for full test details

EXHIBIT 6A

EXHIBIT 6B: Modulation Characteristics -- Pursuant 47 CFR 2.1047 & 95.637:

According to CFR 47 section 2.1047(a), for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured. *(Test conducted at MSI Plantation Eng. Lab in March 2016)*

A. Modulation Limiting for 12.5 KHz band

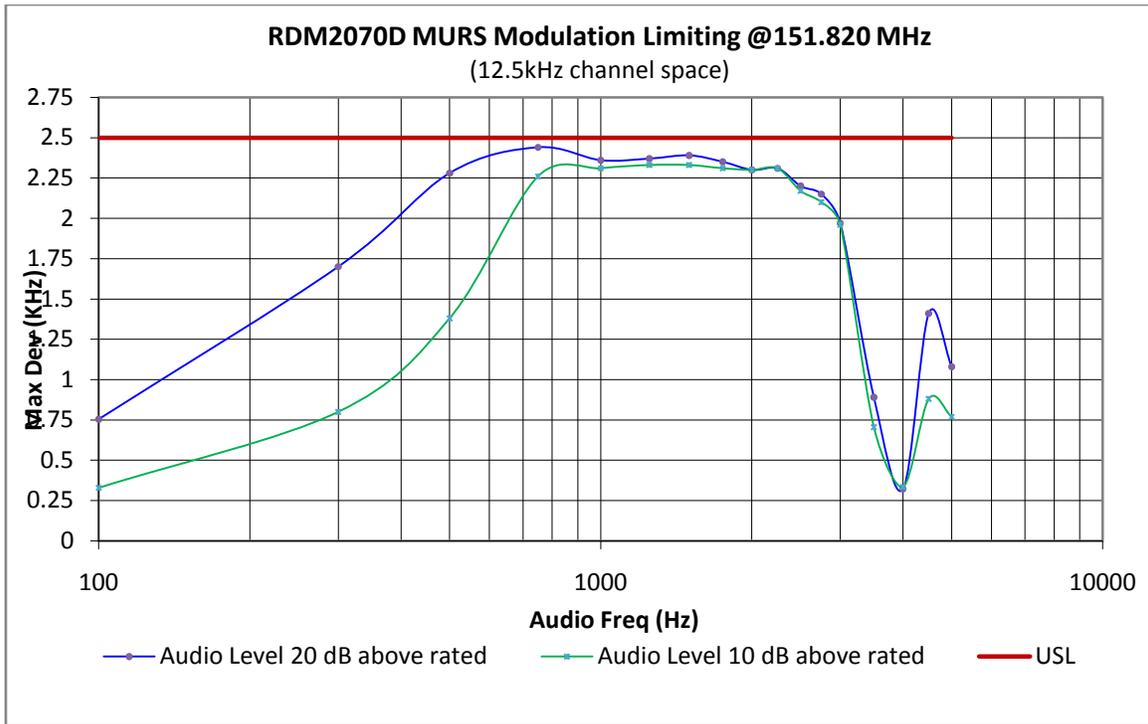


Figure 6B-1: Modulation limiting for 12.5 KHz band.

EXHIBIT 6B-1

B. Modulation Limiting 25 KHz band

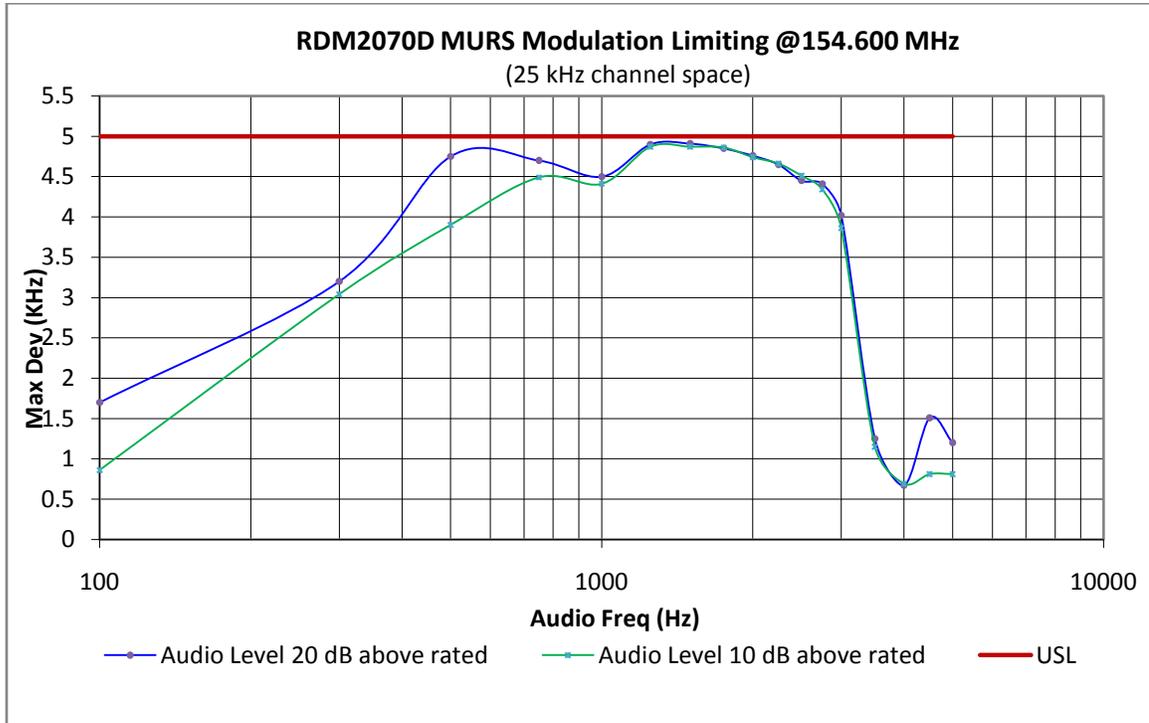


Figure 6B-2: Modulation limiting for 25 KHz band.

EXHIBIT 6B-2

C. Audio Response for 12.5 KHz band

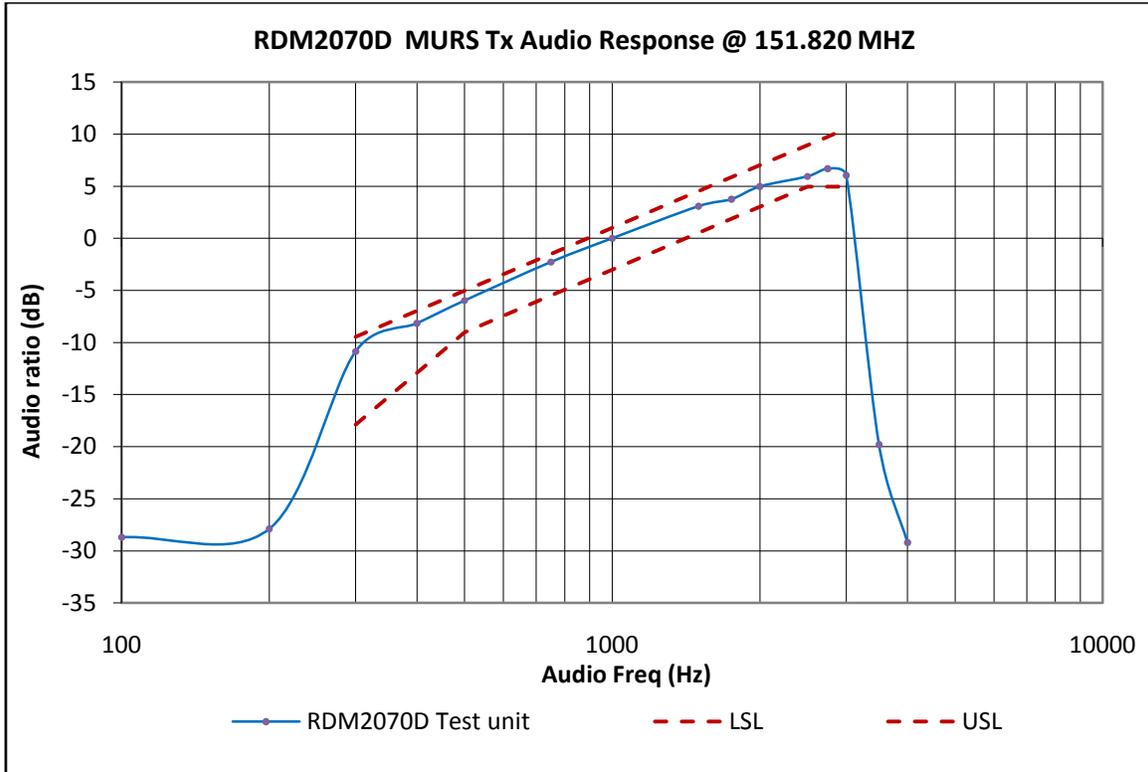


Figure 6B-3: Audio Response.

EXHIBIT 6B-3

EXHIBIT 6C: Occupied Bandwidth and Emission Mask – Pursuant 47 CFR 2.1049 & 95.632(b)/95.633 (f) :

(Test conducted at MSI Plantation Eng. Lab in March 2016)

A. Occupied Bandwidth Spectrum 12.5 KHz

According to FCC Part 95.632 (b), the authorized bandwidth is 11.25 kHz on frequencies 151.820 MHz, 151.880 MHz and 151.940 MHz. The authorized bandwidth is 20.0 kHz on frequencies 154.570 and 154.600 MHz.

- a. 151.820 MHz, 12.5KHz Band, 99% Occupied BW = 10.46 KHz

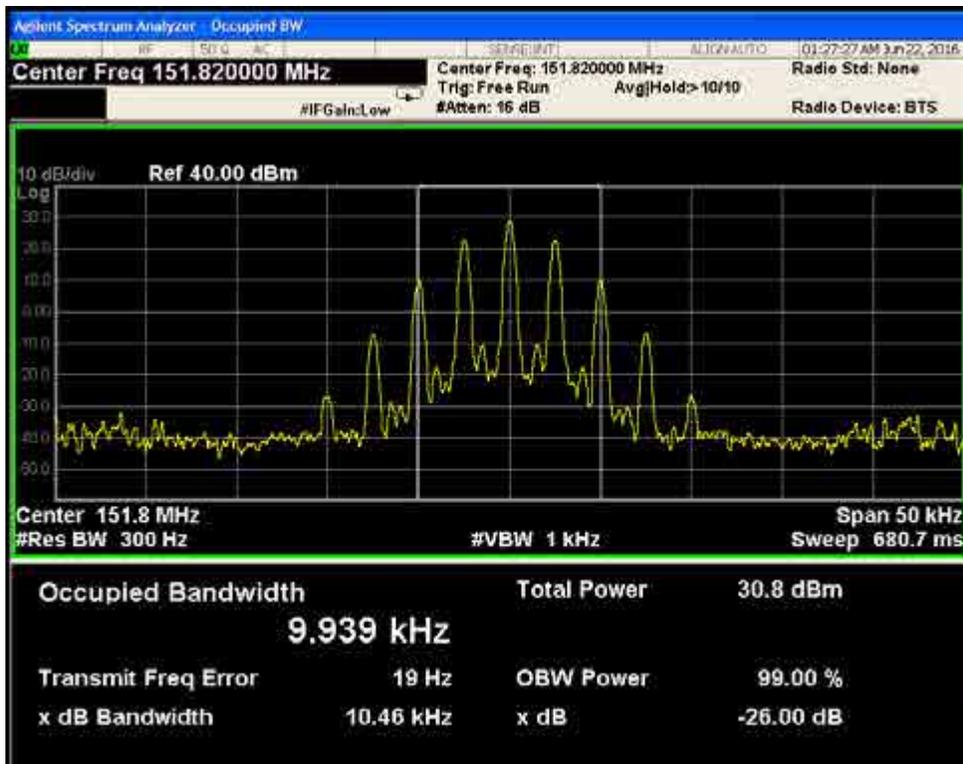


Figure 6C-1: 151.820 MHz, 12.5 KHz Band, 99% Occupied BW

EXHIBIT 6C-1

- b. 154.60 MHz, 25KHz Band, 99% Occupied BW = 15.56 KHz

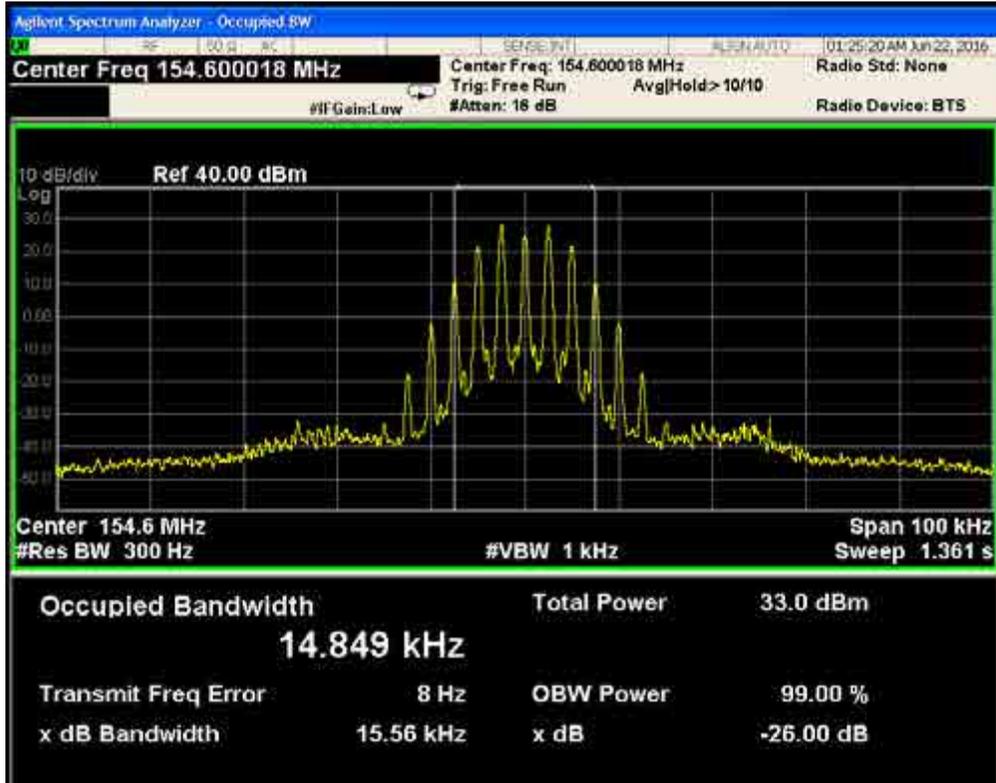


Figure 6C-2: 151.820 MHz, 25 KHz Band, 99% Occupied BW

EXHIBIT 6C-2

B. Emission Mask Spectrum 12.5 KHz Channel Per FCC 47 CFR, 95.635(e):

Emission Mask 1

Emission Type (Carson's Rule): 11K0F3E

$BW = 2(3 \text{ KHz maximum modulation frequency} + 2.5 \text{ KHz Deviation}) = 11\text{K}$

a. 151.820 MHz, 12.5 KHz Channel Without PL

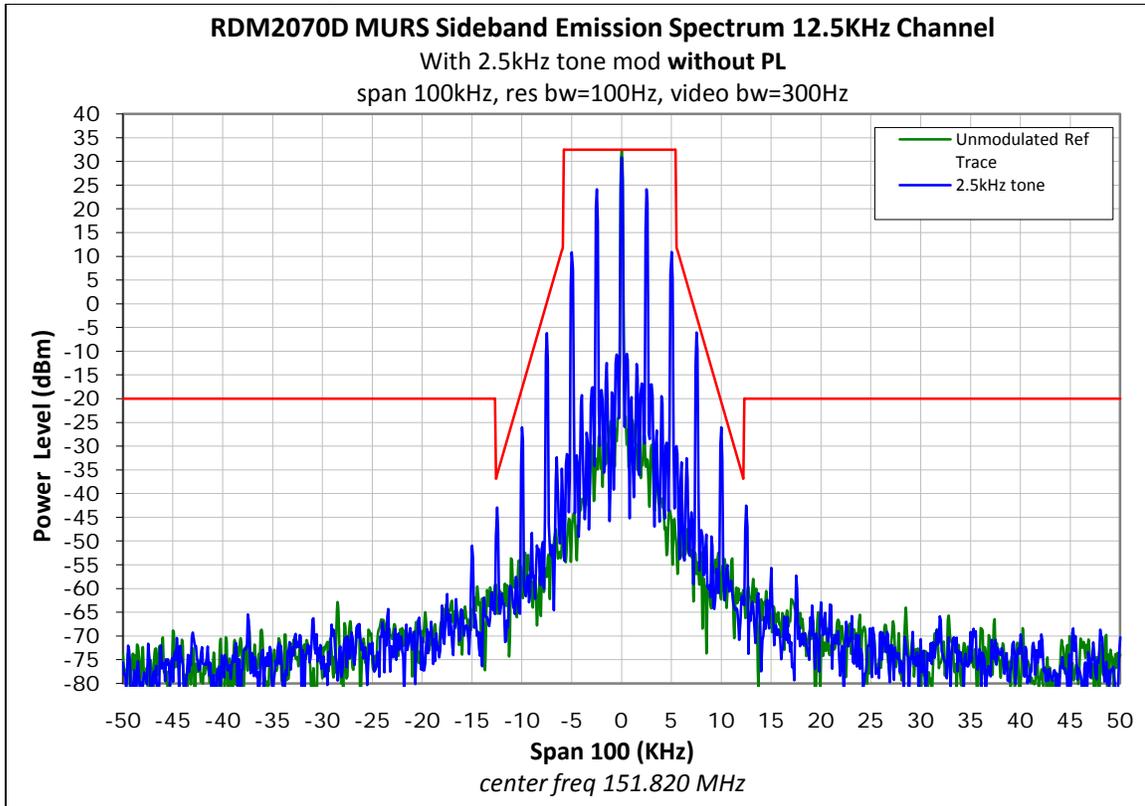


Figure 6C-3: Emission Mask Spectrum 12.5 KHz without PL

EXHIBIT 6C-3

b. 151.820 MHz, 12.5 KHz Channel With PL

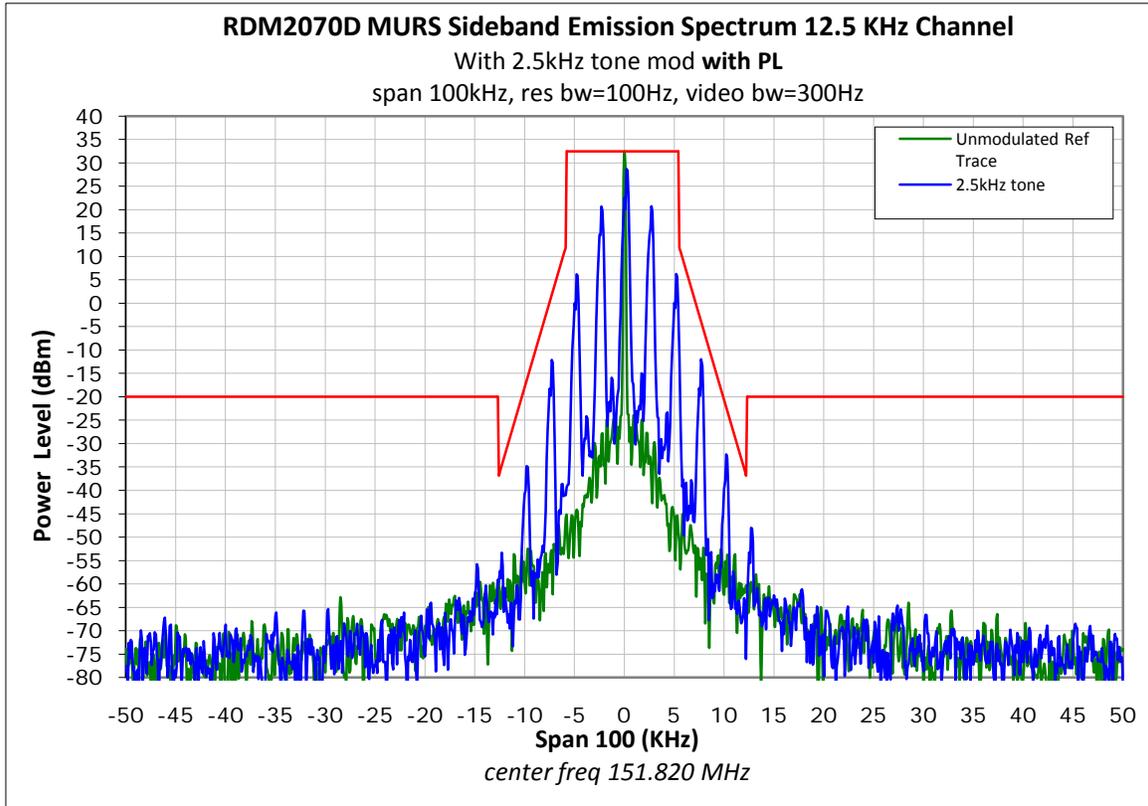


Figure 6C-4: Emission Mask Spectrum 12.5 KHz with PL

EXHIBIT 6C-4

C. Emission Mask Spectrum 25 KHz Channel Per FCC 47 CFR, 95.635(e):

Emission Mask 2

Emission Type (Carson's Rule): 16K0F3E

BW = 2(3 KHz maximum modulation frequency + 5 KHz Deviation) = 16K0

a. 154.600 MHz, 25 KHz Channel Without PL

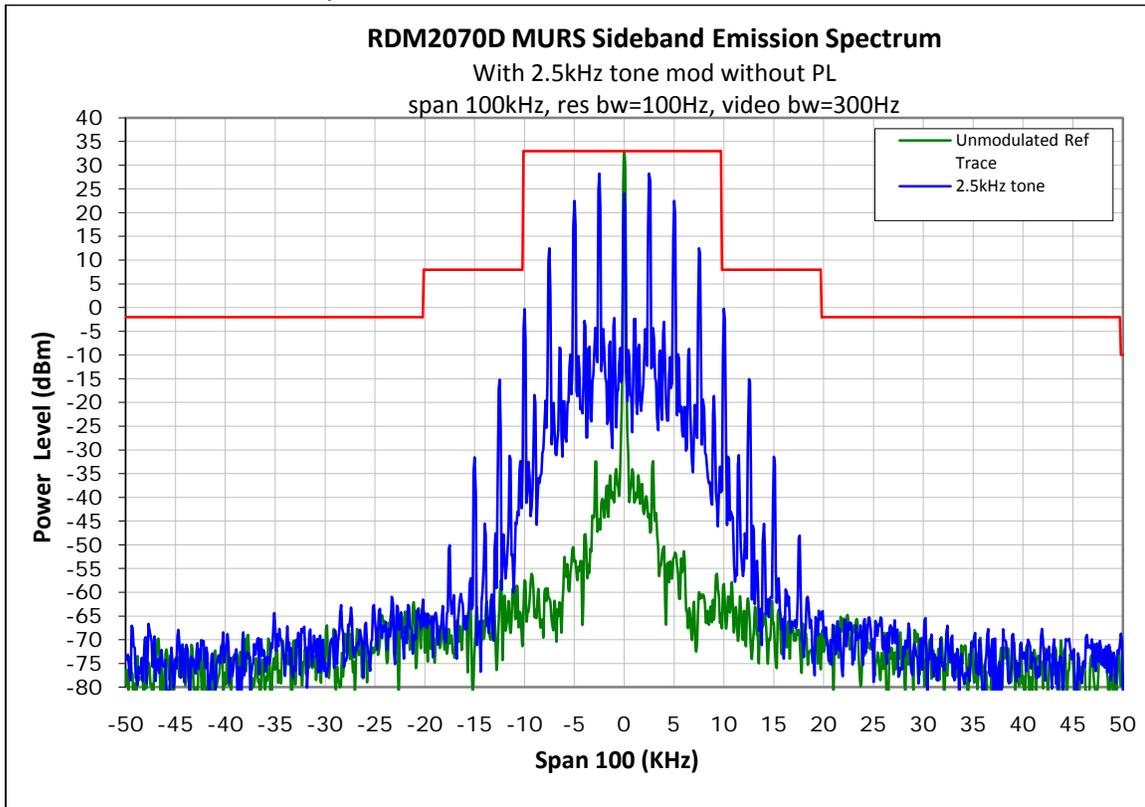


Figure 6C-5: Emission Mask Spectrum 25 KHz without PL

EXHIBIT 6C-5

b. 154.600 MHz, 25 KHz Channel With PL

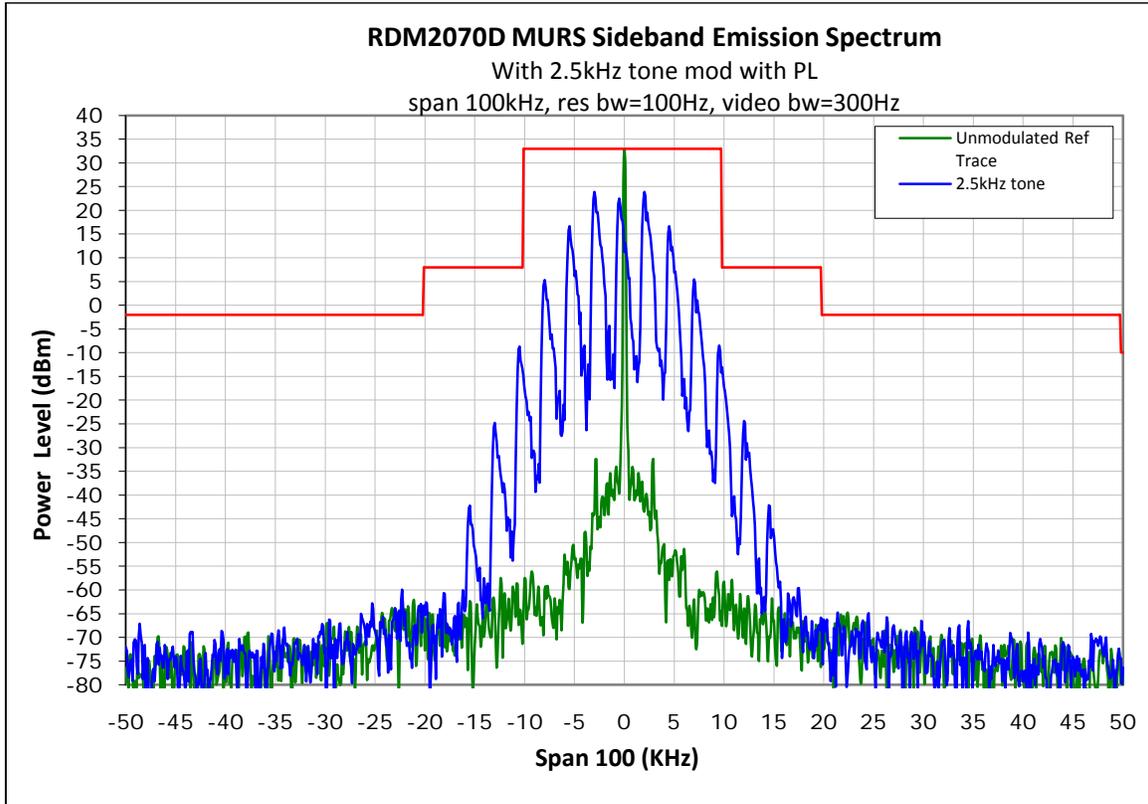


Figure 6C-6: Emission Mask Spectrum 25 KHz with PL

EXHIBIT 6C-6



FCC ID: AZ489FT3837

Exhibit 6D: Transmit Radiated Spurious Emissions -- Pursuant 47 CFR 2.1051, 2.1053, 95.635(b)(7). (Test Conducted at Timco Engineering Inc)

Please see attached TIMCO Radiated Emissions Test report (121AUT16 Test Report) as part of the package for full test details.

EXHIBIT 6D

Exhibit 6E: Frequency Stability -- Pursuant 47 CFR 2.1055, 95.632 (c):

(Test conducted at MSI Plantation Eng. Lab in March 2016)

According to FCC Part 2 Section 2.1055 (a)(1), the frequency stability shall be measured with variation of ambient temperature from -30 to +50 degree centigrade.

According to FCC Part 2 Section 2.1055 (a) (2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacture.

According to §95.632 (c), MURS transmitters must maintain a frequency stability of 5.0 ppm, or 2.0 ppm if designed to operate with a 6.25 kHz bandwidth.

A. Frequency Stability vs. Temperature (@151.820 MHz)

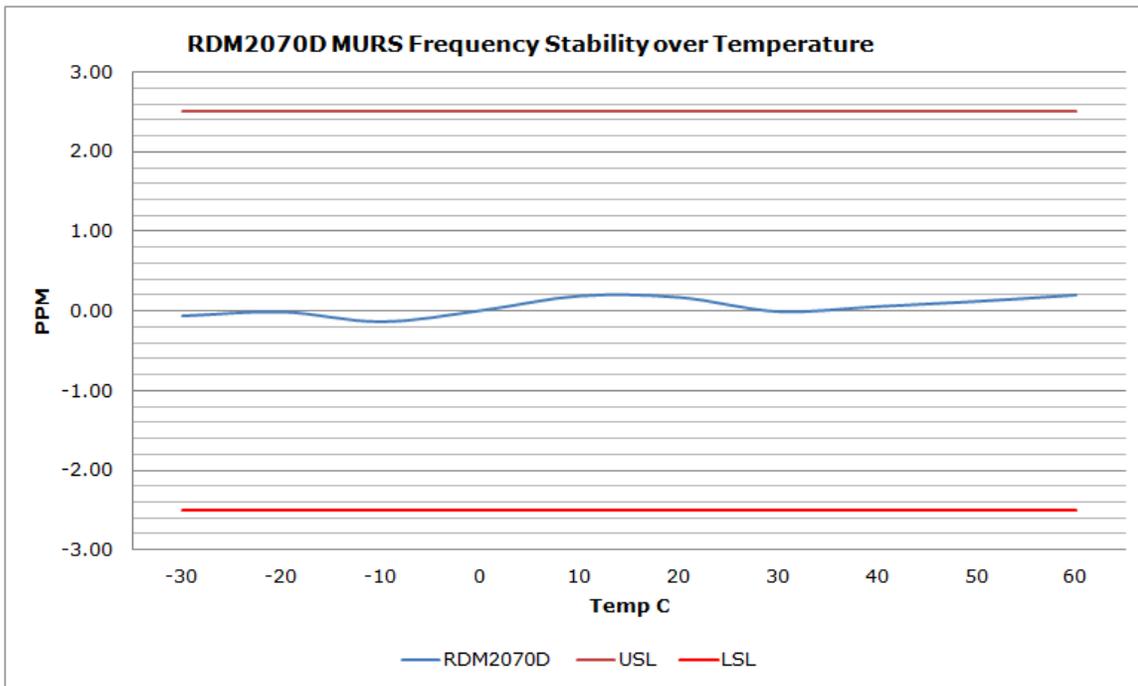


Figure 6E-1: Frequency Stability over Temperature

EXHIBIT 6E-1

B. Frequency Stability vs. Voltage(@151.820 MHz)

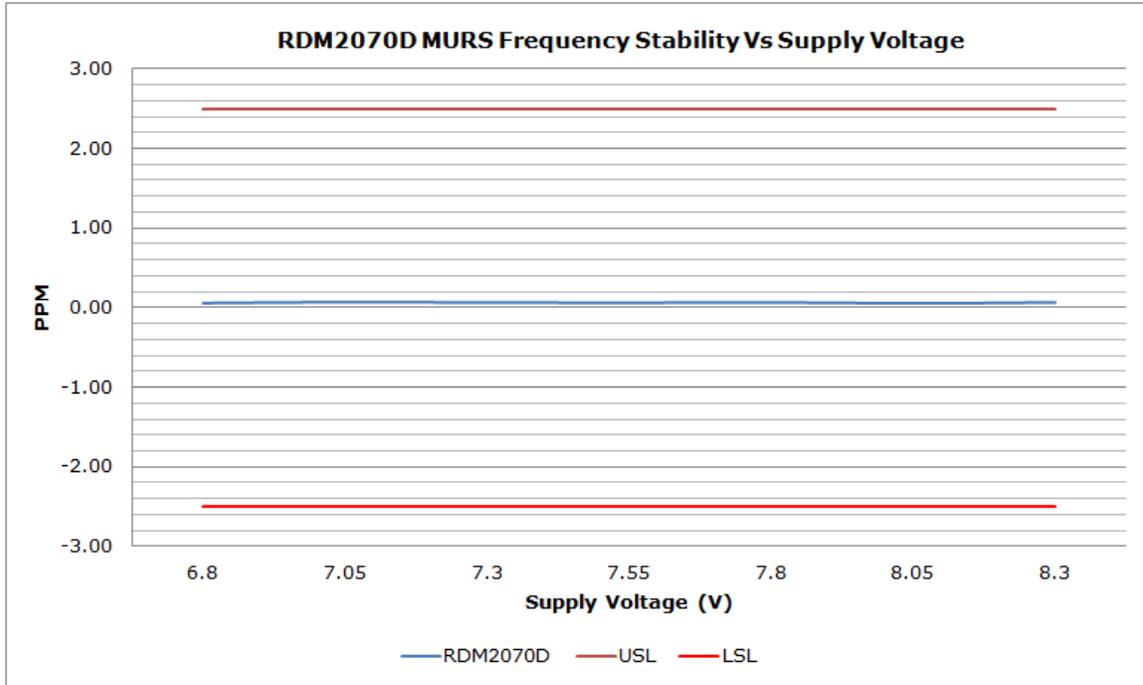


Figure 6E-2: Frequency Stability over Supply Voltage

EXHIBIT 6E-2

Exhibit 6F: Transient Frequency Behaviour -- Pursuant 47 Part 95 (Test conducted at MSI Plantation Eng. Lab in March 2016)

Transient frequency behavior is a measure of the difference, as a function in time, of the actual transmitter frequency to the assigned transmitter frequency when the transmitted RF output power is switched on or off.

A. Transient Frequency Behavior Off to On 151.82@ MHz

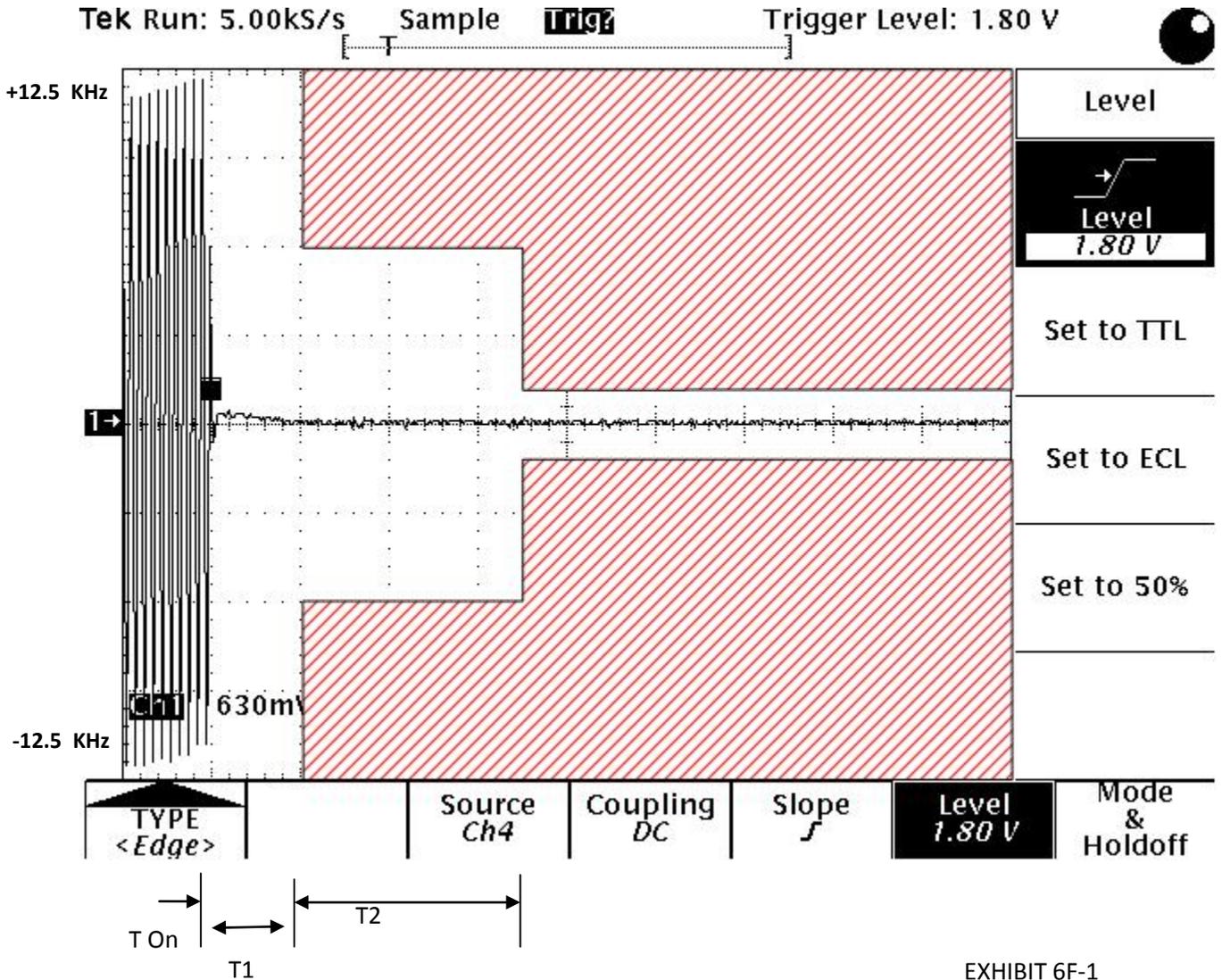


EXHIBIT 6F-1

B. Transient Frequency Behavior On to Off 151.82@MHz

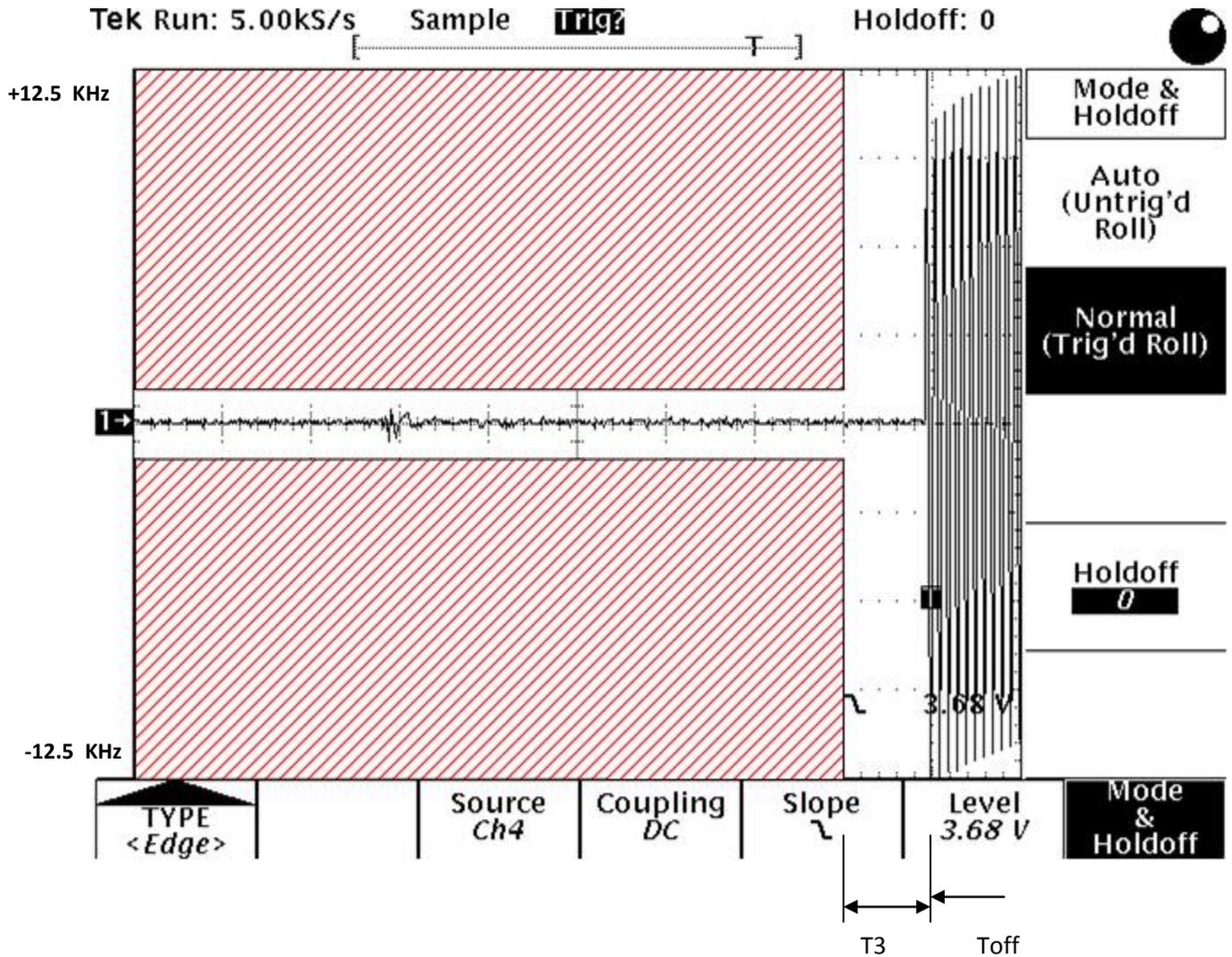


EXHIBIT 6F-2