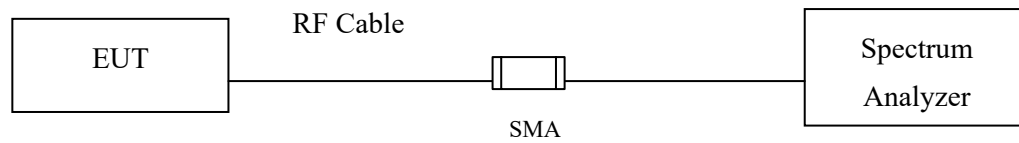


7. Occupied Bandwidth

7.1. Test Setup



7.2. Limits

For the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz

7.3. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.4. Uncertainty

$\pm 681.6\text{Hz}$

7.5. Test Result of Occupied Bandwidth

Product : 23.1 inches Bar type Digital Signage
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	16150	>500	Pass
157	5785	16400	>500	Pass
165	5825	16450	>500	Pass

Figure Channel 149:

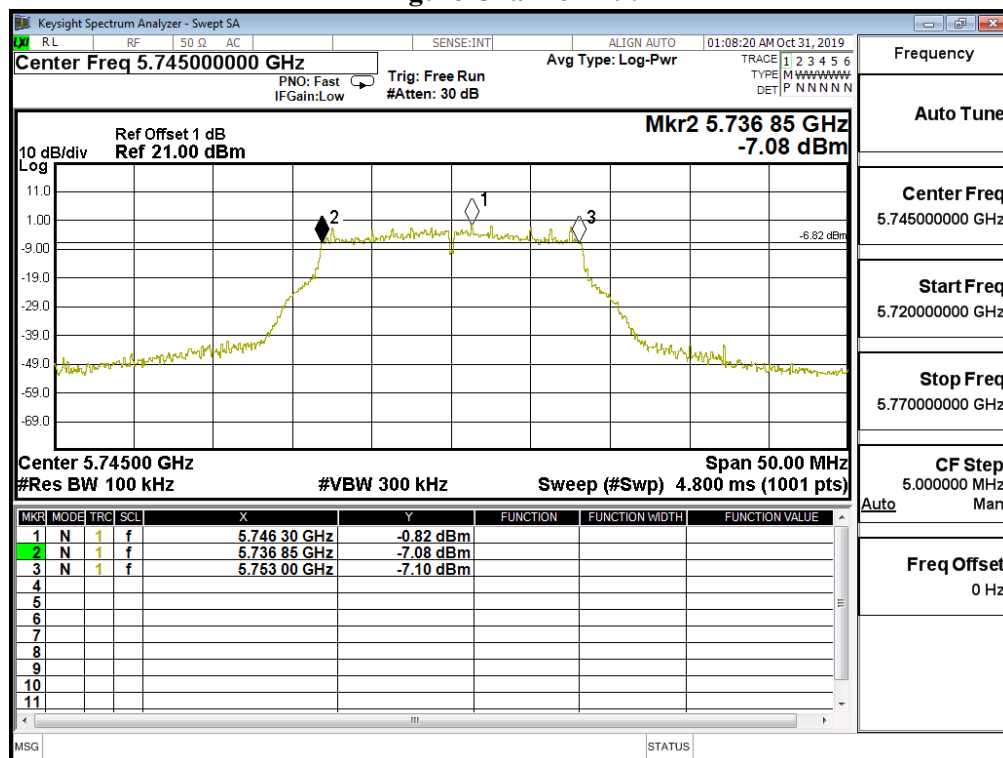


Figure Channel 157:

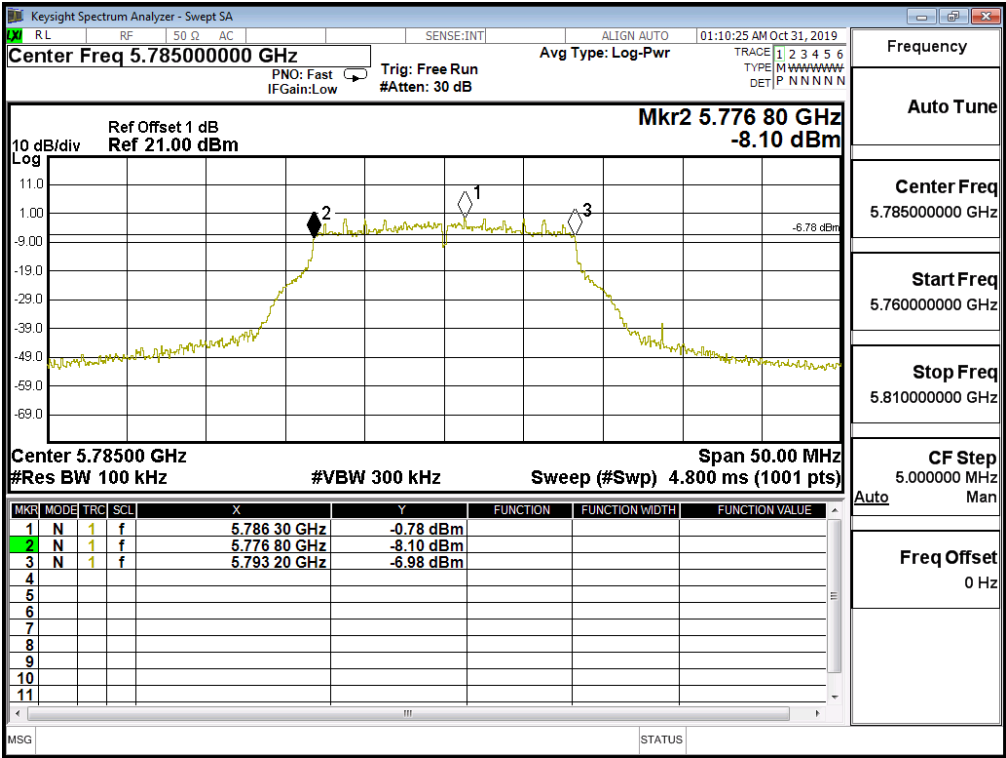
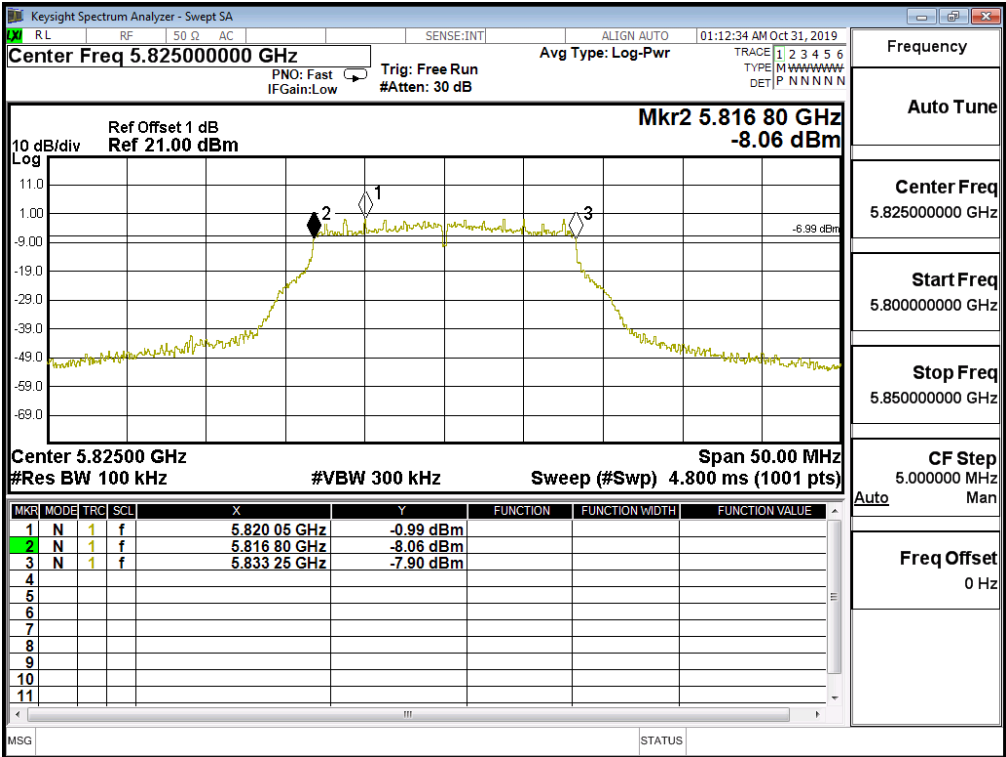


Figure Channel 165:



Product : 23.1 inches Bar type Digital Signage
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	17650	>500	Pass
157	5785	17200	>500	Pass
165	5825	17400	>500	Pass

Figure Channel 149:

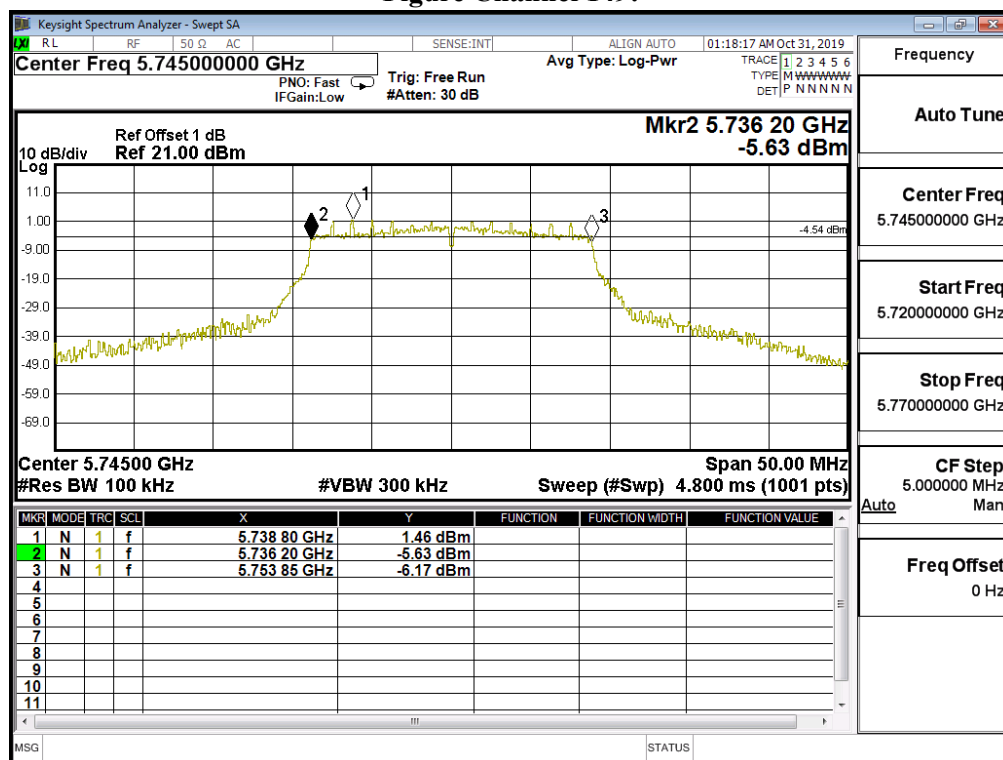


Figure Channel 157:

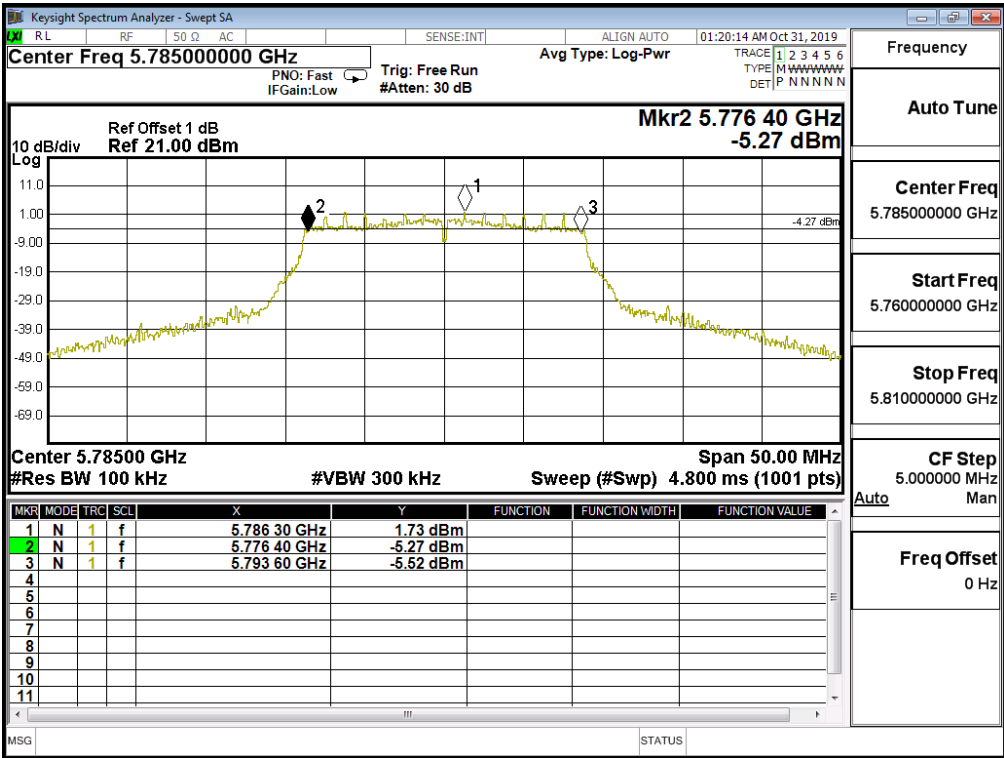
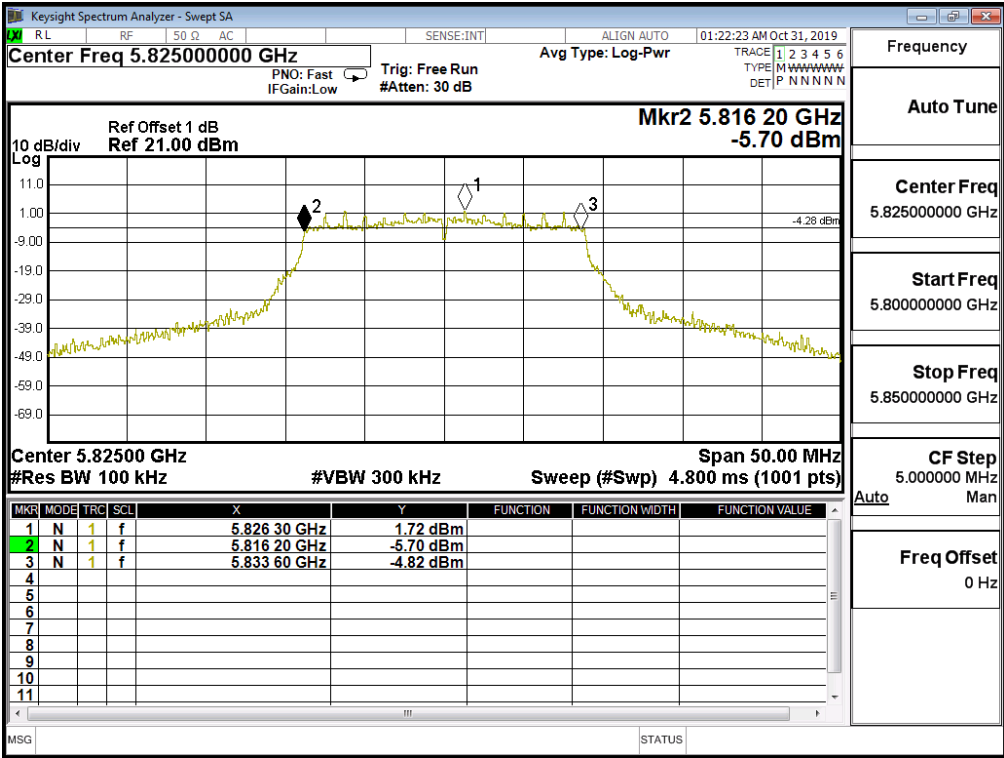


Figure Channel 165:



Product : 23.1 inches Bar type Digital Signage
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	35700	>500	Pass
159	5795	36000	>500	Pass

Figure Channel 151:

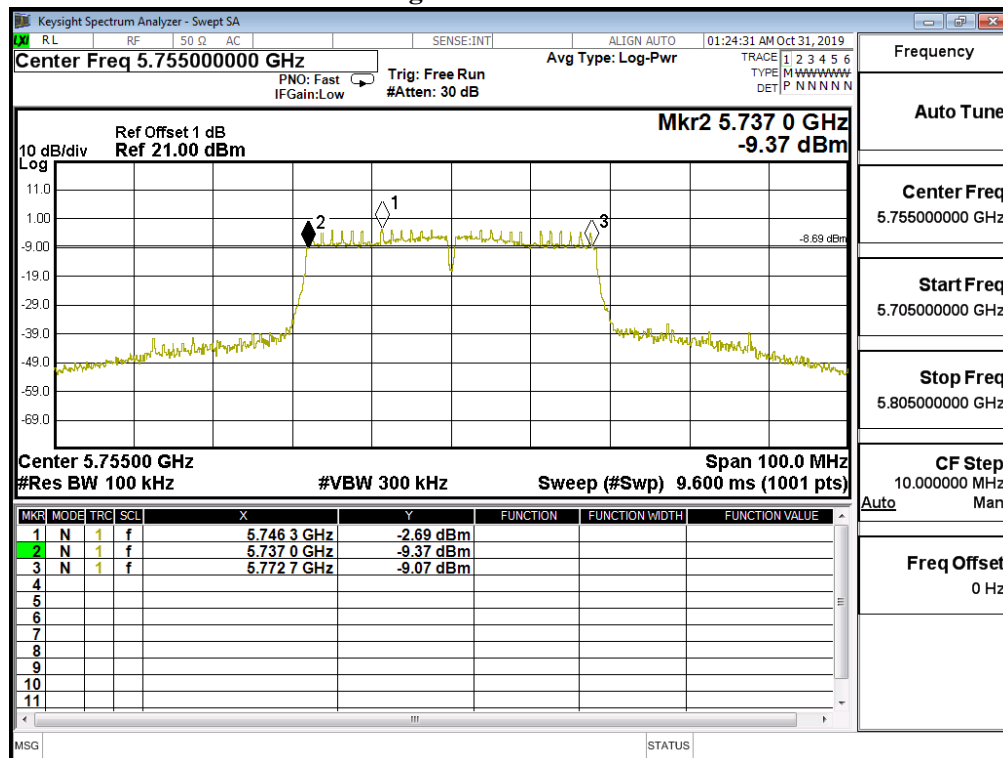
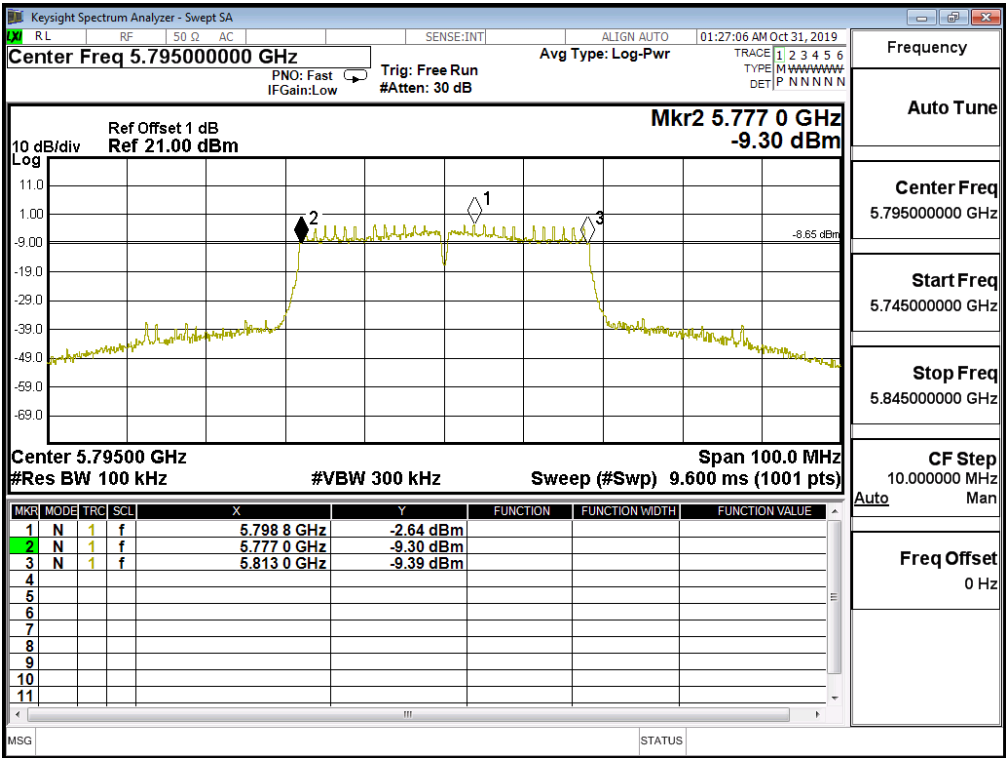


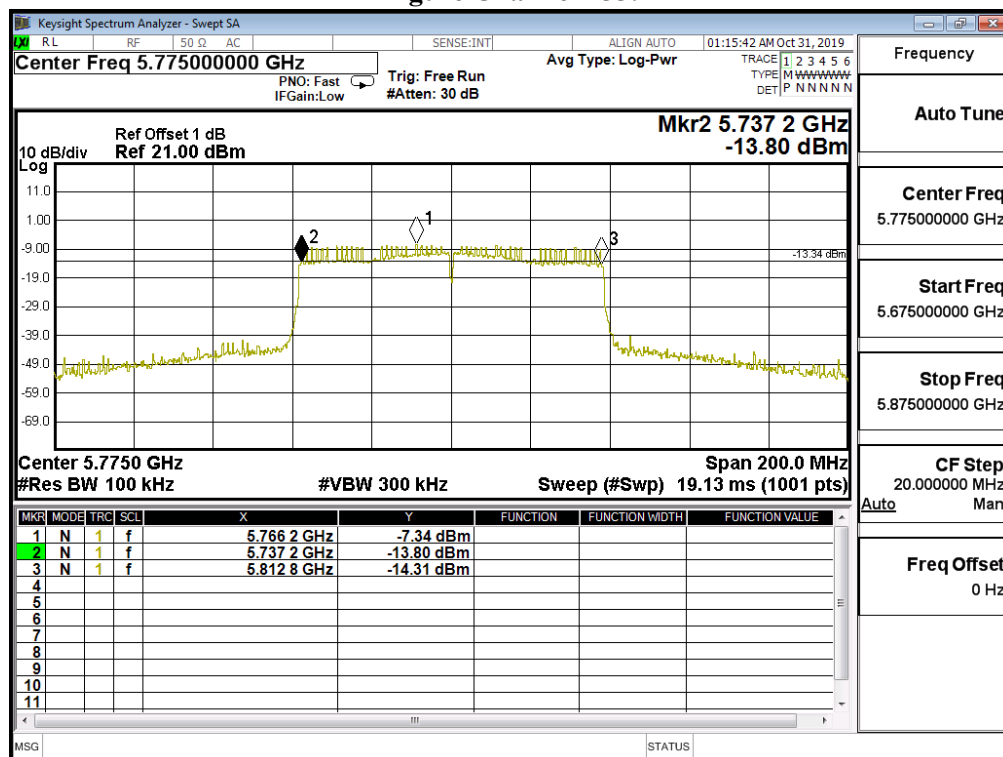
Figure Channel 159:



Product : 23.1 inches Bar type Digital Signage
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 6: Transmit (802.11ac-80BW-32.5Mbps)

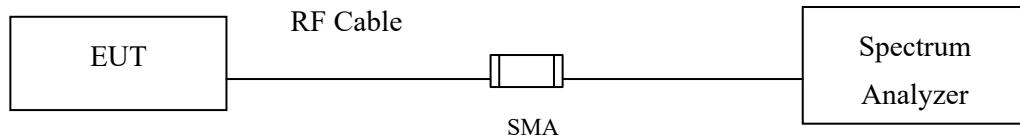
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	75600	>500	Pass

Figure Channel 155:



8. Duty Cycle

8.1. Test Setup



8.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to test procedure of KDB789033 for compliance to FCC 47CFR 15.407 requirements.

8.3. Uncertainty

$\pm 2.31\text{msec}$

8.4. Test Result of Duty Cycle

Product : 23.1 inches Bar type Digital Signage
Test Item : Duty Cycle
Test Mode : Mode 1: Transmit

Duty Cycle Formula:

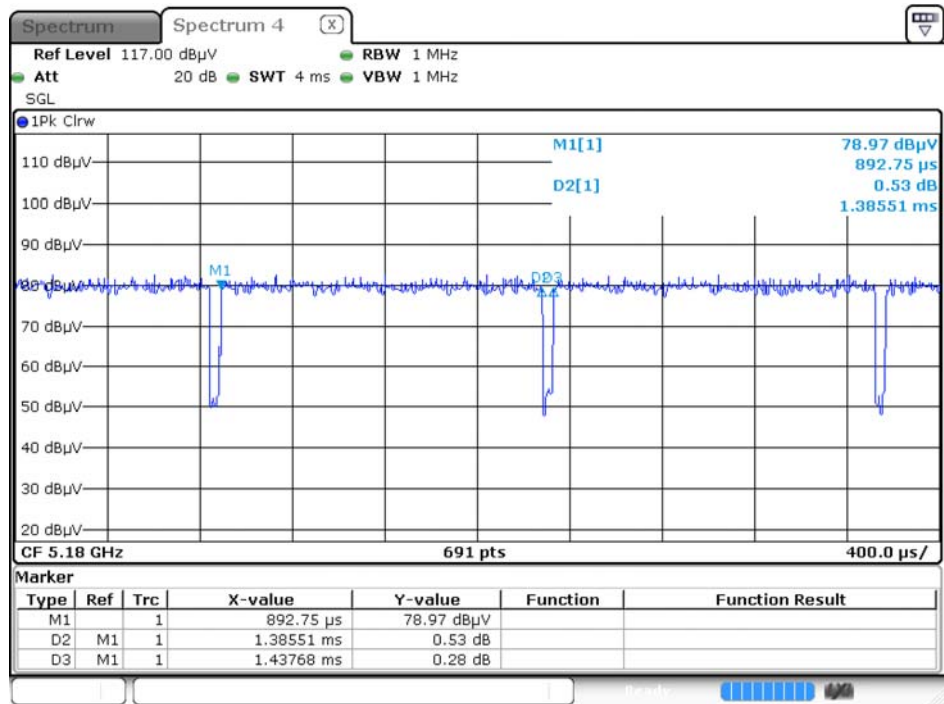
$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$

$\text{Duty Factor} = 10 \text{ Log } (1/\text{Duty Cycle})$

Results:

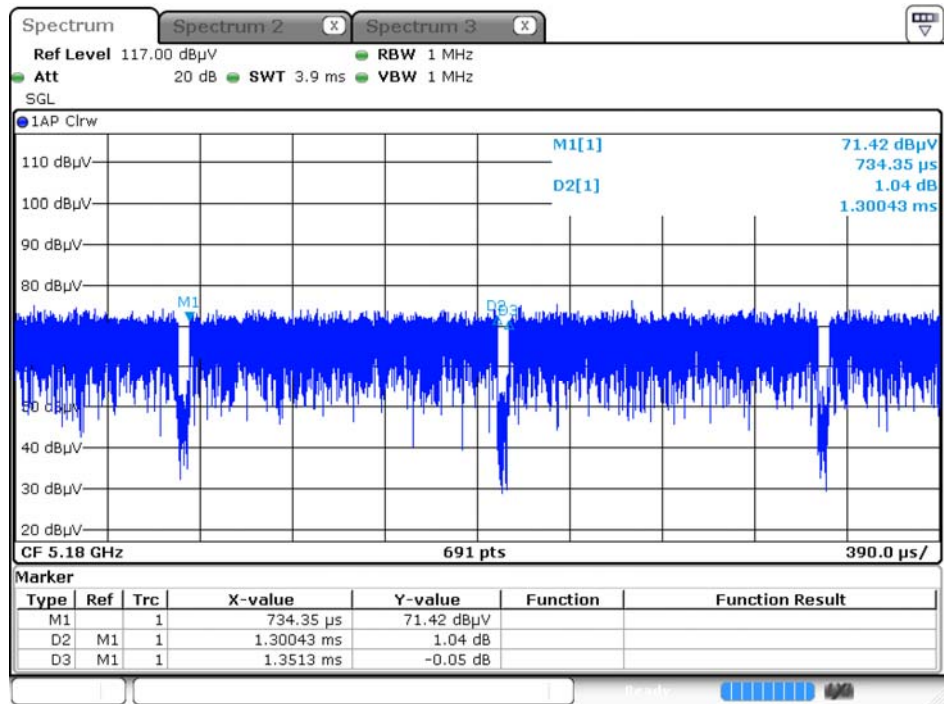
5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	1.3855	1.4377	96.37	0.16
802.11n20	1.3004	1.3513	96.24	0.17
802.11n40	0.6126	0.6870	89.18	0.50
802.11ac20	1.3157	1.3545	97.13	0.13
802.11ac40	0.6552	0.7012	93.45	0.29
802.11ac80	0.2917	0.3648	79.98	0.97

802.11a



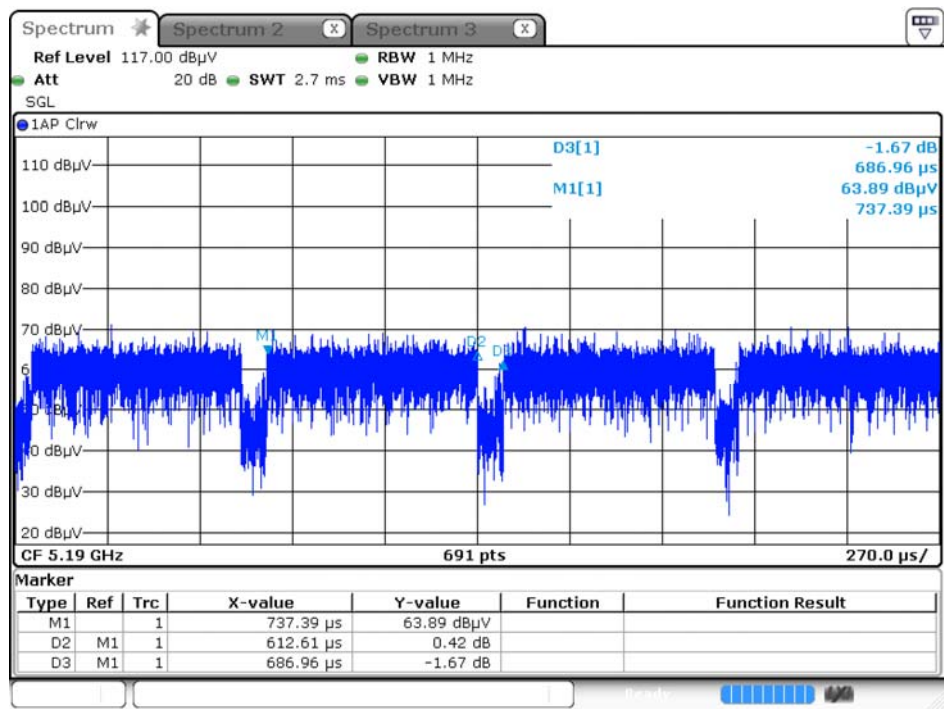
Date: 1.JAN.2007 02:43:03

802.11n20



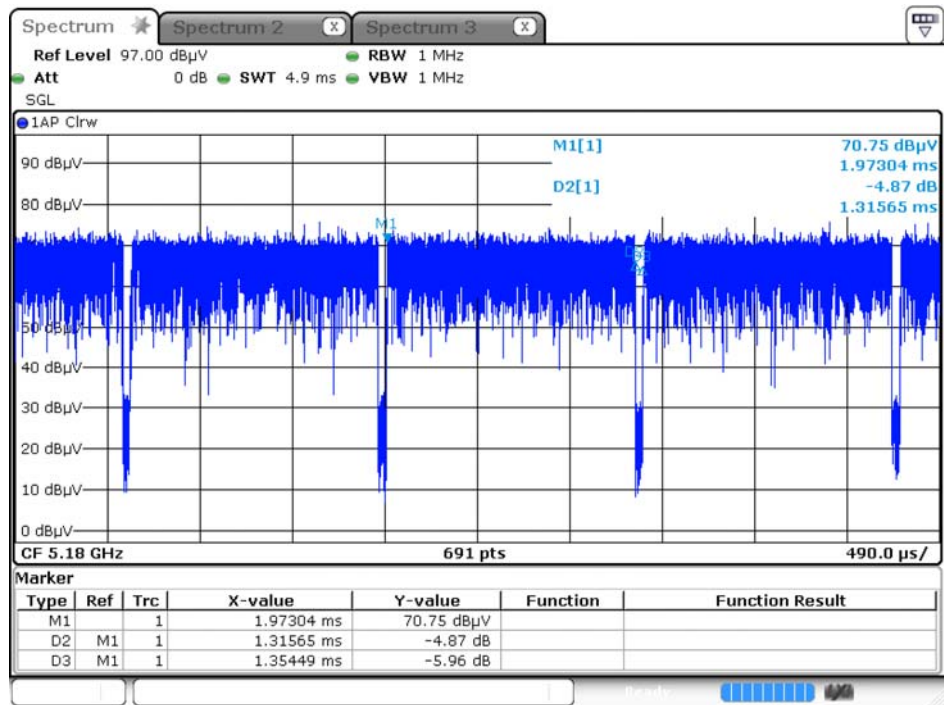
Date: 1.JAN.2007 06:05:26

802.11n40



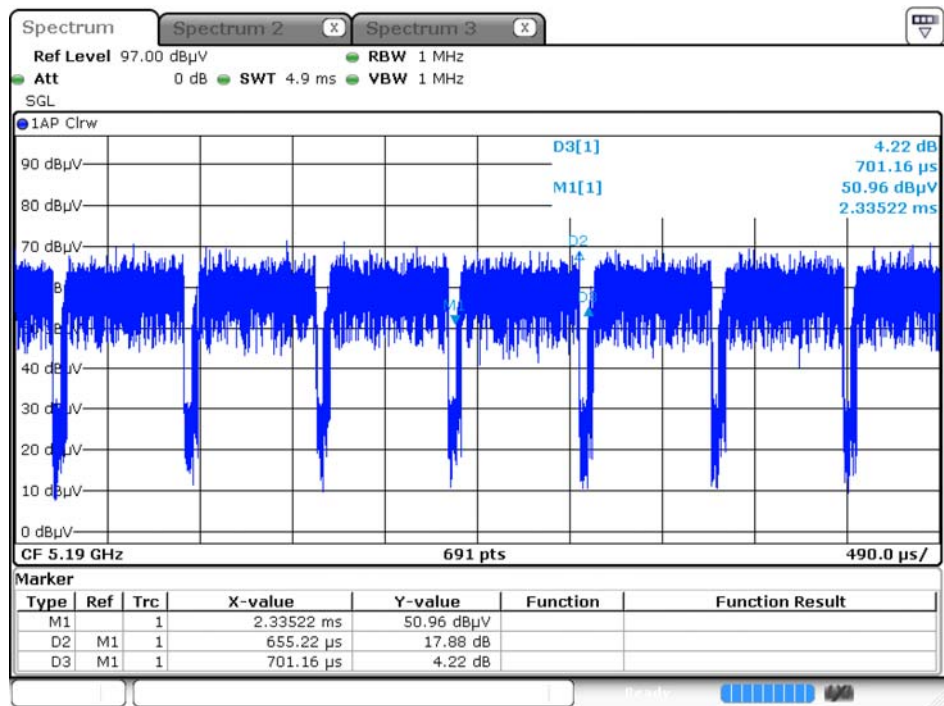
Date: 1.JAN.2007 06:06:55

802.11ac20



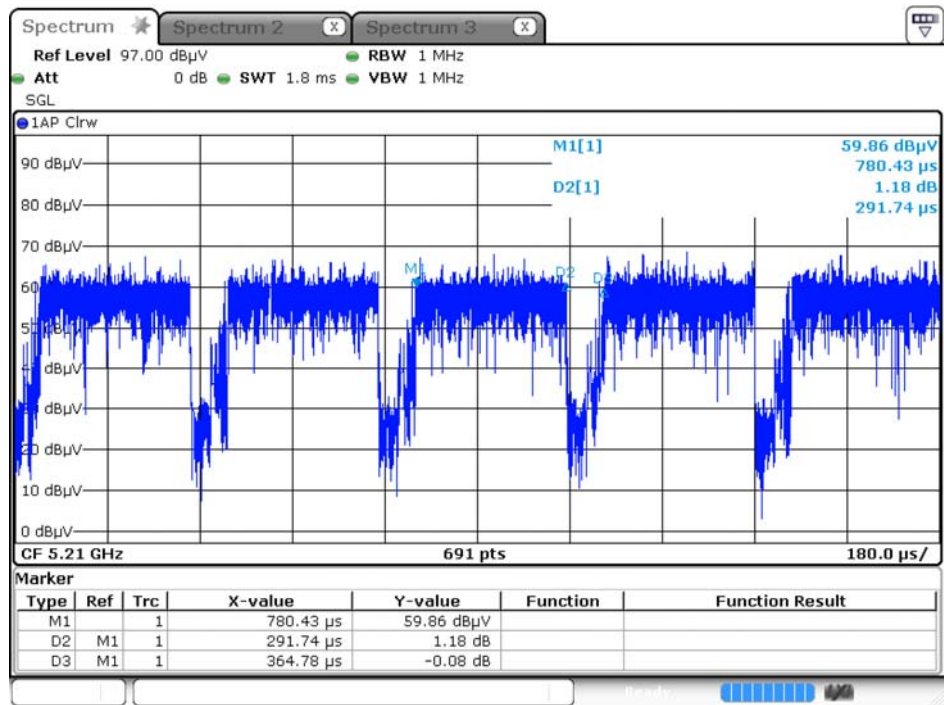
Date: 1.JAN.2007 06:13:18

802.11ac40



Date: 1.JAN.2007 06:11:20

802.11ac80



Date: 1.JAN.2007 06:14:44

9. EMI Reduction Method During Compliance Testing

No modification was made during testing.