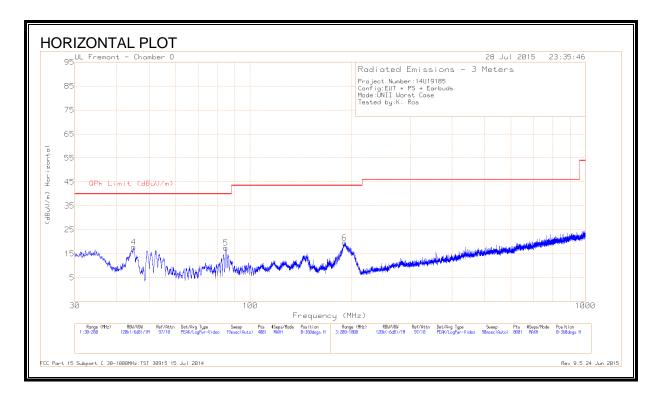
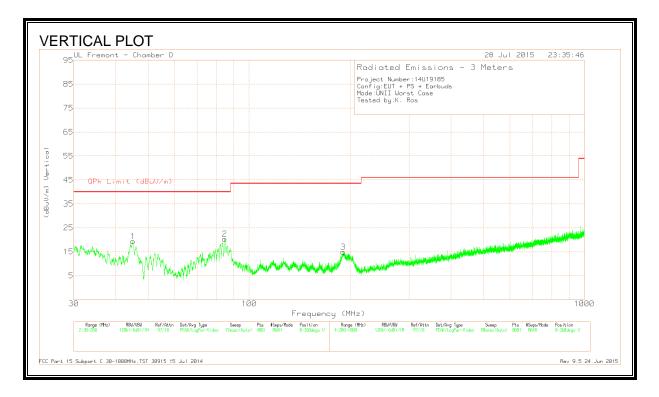
9.26. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)





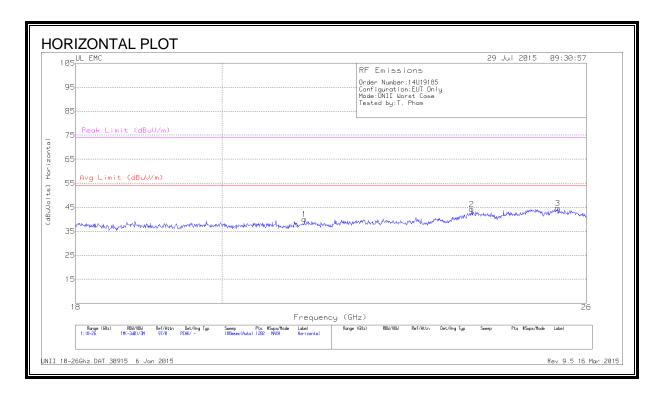
HORIZONTAL AND VERTICAL DATA

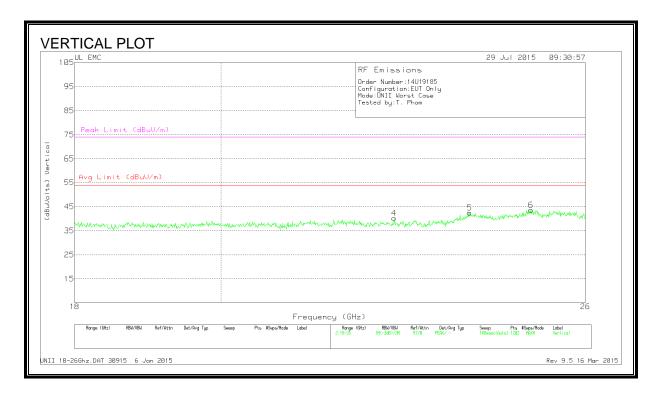
Marker	Frequency	Meter	Det	AF T407	Amp/Cbl (dB)	Corrected	QPk Limit	Margin	Azimuth	Height	Polarity
	(MHz)	Reading		(dB/m)		Reading	(dBuV/m)	(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)					
4	44.96	38.86	Pk	10.8	-31.8	17.86	40	-22.14	0-360	401	Н
1	45.0025	40.42	Pk	10.8	-31.8	19.42	40	-20.58	0-360	102	V
2	84.5275	44.42	Pk	7.4	-31.4	20.42	40	-19.58	0-360	102	V
5	84.6125	41.52	Pk	7.4	-31.4	17.52	40	-22.48	0-360	201	Н
3	190.6075	34.51	Pk	11.3	-30.9	14.91	43.52	-28.61	0-360	102	V
6	191.2025	39.12	Pk	11.3	-30.8	19.62	43.52	-23.9	0-360	201	Н

Pk - Peak detector

9.27. WORST-CASE ABOVE 18 GHz

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION)



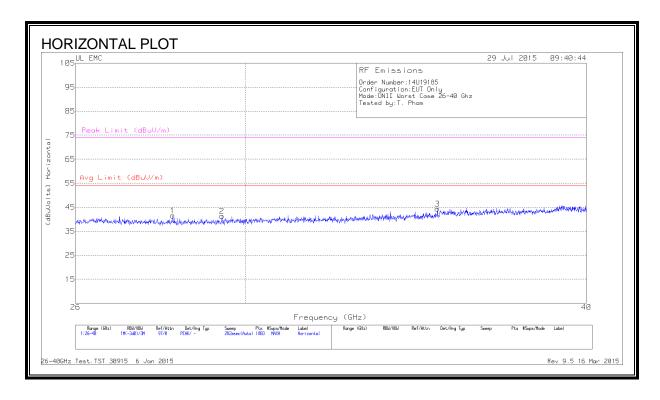


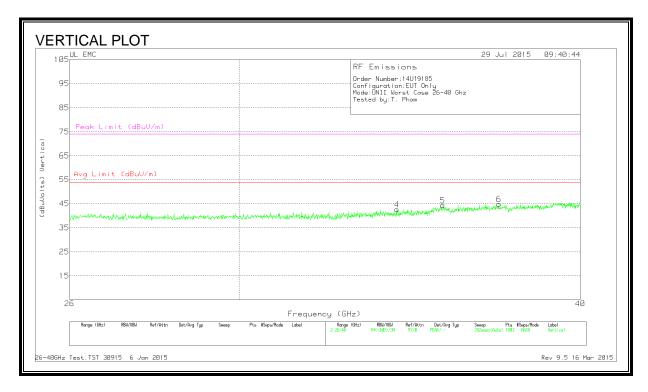
HORIZONTAL AND VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
		(dBuV)					(dBuVolts)				
1	21.224	41.4	Pk	33.1	-25	-9.5	40	54	-14	74	-34
2	23.942	44.47	Pk	33.4	-24.2	-9.5	44.16	54	-9.83	74	-29.83
3	25.467	44.97	Pk	33.8	-24.6	-9.5	44.66	54	-9.33	74	-29.33
4	22.656	41.53	Pk	33.3	-25	-9.5	40.33	54	-13.66	74	-33.66
5	23.922	42.5	Pk	33.4	-23.9	-9.5	42.5	54	-11.5	74	-31.5
6	25.001	43.57	Pk	34.2	-24.6	-9.5	43.66	54	-10.33	74	-30.33

Pk - Peak detector

SPURIOUS EMISSIONS 26000 TO 40000 MHz (WORST-CASE CONFIGURATION)





HORIZONTAL AND VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
	(0.1.2)	(dBuV)		(,,	()	()	(dBuVolts)	(====,,	(/	(====,,	(==)
1	28.222	46.9	Pk	35.9	-31.8	-9.5	41.5	54	-12.5	74	-32.5
2	29.418	47.13	Pk	35.9	-32.2	-9.5	41.33	54	-12.66	74	-32.66
3	35.276	49.33	Pk	37.7	-33.2	-9.5	44.33	54	-9.66	74	-29.66
4	34.266	48.37	Pk	36.9	-33.1	-9.5	42.66	54	-11.33	74	-31.33
5	35.618	49.73	Pk	37.6	-33.5	-9.5	44.33	54	-9.66	74	-29.66
6	37.343	50.03	Pk	37.3	-33	-9.5	44.83	54	-9.16	74	-29.16

Pk - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dB _µ V)					
	Quasi-peak	Average				
0.15-0.5	66 to 56 *	56 to 46 *				
0.5-5	56	46				
5-30	60	50				

^{*}Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

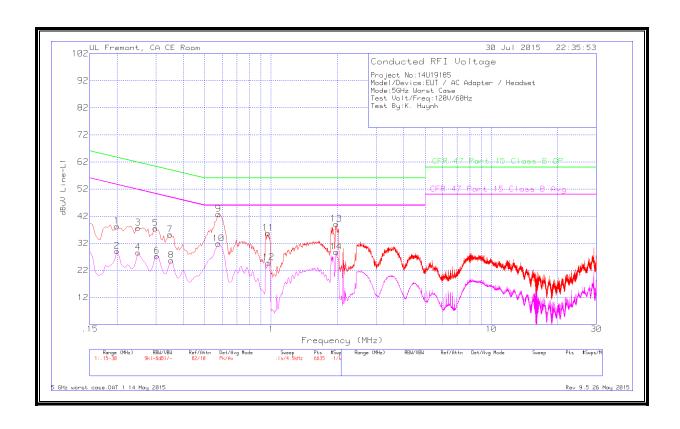
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

10.1. EUT POWERED BY AC ADAPTER

LINE 1 RESULTS



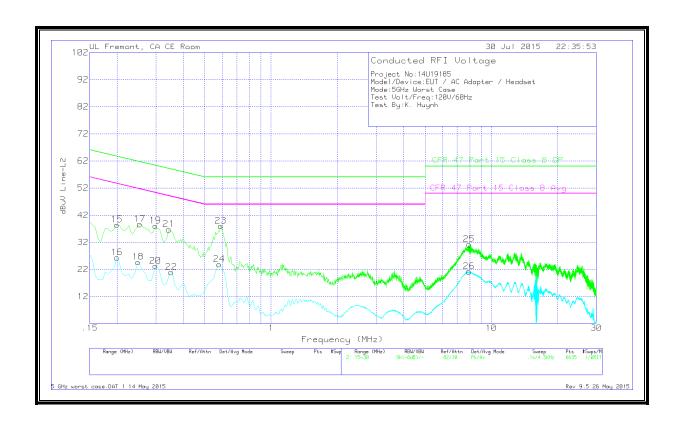
WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin (dB)	CFR 47 Part 15 Class B Avg	Margin (dB)
1	.1995	37.39	Pk	.9	0	38.29	63.63	-25.34	-	-
2	.1995	28.19	Av	.9	0	29.09	-	-	53.63	-24.54
3	.249	36.97	Pk	.7	0	37.67	61.79	-24.12	-	-
4	.249	27.88	Av	.7	0	28.58	-	-	51.79	-23.21
5	.2985	36.91	Pk	.6	0	37.51	60.28	-22.77	-	-
6	.303	26.79	Av	.5	0	27.29	-	-	50.16	-22.87
7	.348	34.66	Pk	.5	0	35.16	59.01	-23.85	-	-
8	.3525	25.18	Av	.5	0	25.68	-	-	48.9	-23.22
9	.5775	42.47	Pk	.3	0	42.77	56	-13.23	-	-
10	.5775	31.54	Av	.3	0	31.84	-	-	46	-14.16
11	.969	35.43	Pk	.3	0	35.73	56	-20.27	-	-
12	.9735	24.56	Av	.3	0	24.86	-	-	46	-21.14
13	1.977	38.79	Pk	.2	.1	39.09	56	-16.91	-	-
14	1.977	28.48	Av	.2	.1	28.78	-	-	46	-17.22

Pk - Peak detector

REPORT NO: 14U19185-E9V4 DATE: SEPTEMBER 14, 2015 FCC ID: BCGA1652 **EUT MODEL: A1652**

LINE 2 RESULTS



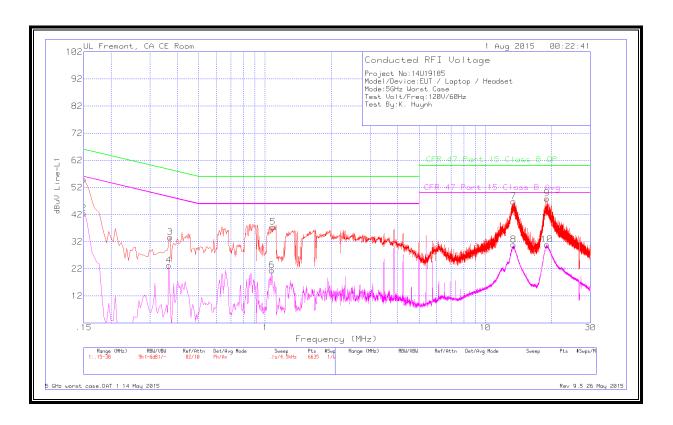
WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin (dB)	CFR 47 Part 15 Class B Avg	Margin (dB)
15	.1995	37.45	Pk	1	0	38.45	63.63	-25.18	-	-
16	.1995	25.35	Av	1	0	26.35	-	-	53.63	-27.28
17	.2535	37.92	Pk	.7	0	38.62	61.64	-23.02	-	-
18	.249	24	Av	.7	0	24.7	-	-	51.79	-27.09
19	.2985	37.46	Pk	.6	0	38.06	60.28	-22.22	-	-
20	.2985	22.62	Av	.6	0	23.22	-	-	50.28	-27.06
21	.3435	36.25	Pk	.5	0	36.75	59.12	-22.37	-	-
22	.3525	20.41	Av	.5	0	20.91	-	-	48.9	-27.99
23	.591	37.71	Pk	.3	0	38.01	56	-17.99	-	-
24	.582	23.54	Av	.3	0	23.84	-	-	46	-22.16
25	7.926	30.91	Pk	.2	.1	31.21	60	-28.79	-	-
26	7.917	20.9	Av	.2	.1	21.2	-	-	50	-28.8

Pk - Peak detector

10.2. EUT POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

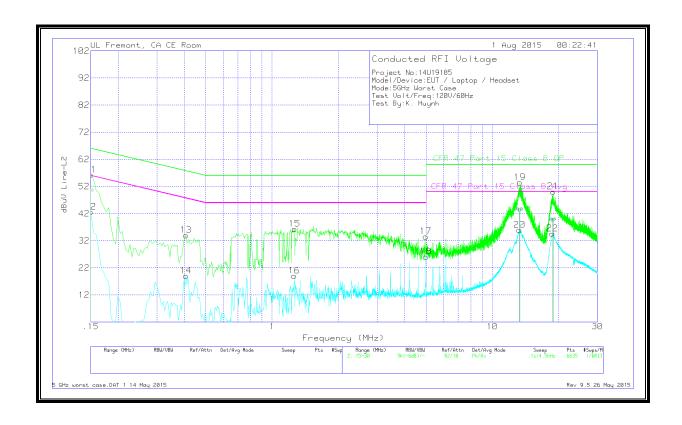


WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin (dB)	CFR 47 Part 15 Class B Avg	Margin (dB)
1	.15	53.64	Pk	1.4	0	55.04	66	-10.96	-	-
2	.15	41.08	Av	1.4	0	42.48	-	-	56	-13.52
3	.3705	33.25	Pk	.4	0	33.65	58.49	-24.84	-	-
4	.366	22.74	Av	.5	0	23.24	-	-	48.59	-25.35
5	1.086	37.17	Pk	.2	0	37.37	56	-18.63	-	-
6	1.0725	21.31	Av	.2	0	21.51	-	-	46	-24.49
7	13.4295	46.41	Pk	.2	.2	46.81	60	-13.19	-	-
8	13.4385	30.52	Av	.2	.2	30.92	-	-	50	-19.08
9	19.05	47.4	Pk	.3	.2	47.9	60	-12.1	-	-
10	19.0545	30.46	Av	.3	.2	30.96	-	-	50	-19.04

Pk - Peak detector

LINE 2 RESULTS



WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin (dB)	CFR 47 Part 15 Class B Avg	Margin (dB)
11	.15	54.76	Pk	1.5	0	56.26	66	-9.74	-	-
12	.15	41.1	Av	1.5	0	42.6	-	-	56	-13.4
13	.4065	33.61	Pk	.4	0	34.01	57.72	-23.71	-	-
14	.4065	18.65	Av	.4	0	19.05	-	-	47.72	-28.67
15	1.266	36.05	Pk	.2	.1	36.35	56	-19.65	-	-
16	1.2615	18.73	Av	.2	.1	19.03	-	-	46	-26.97
17	4.992	33.25	Pk	.2	.1	33.55	56	-22.45	-	-
18	4.9875	25.8	Av	.2	.1	26.1	-	-	46	-19.9
19	13.353	53.08	Pk	.2	.2	53.48	60	-6.52	-	-
20	13.308	35.55	Av	.2	.2	35.95	-	-	50	-14.05
21	18.8835	49.59	Pk	.3	.2	50.09	60	-9.91	-	-
22	18.7485	34.11	Av	.3	.2	34.61	-	-	50	-15.39

Pk - Peak detector

11. DYNAMIC FREQUENCY SELECTION

11.1. OVERVIEW

11.1.1. LIMITS

INDUSTRY CANADA

IC RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-247 Issue 1

Note: For the band 5600–5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600–5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

FCC

§15.407 (h), FCC KDB 905462 D02 "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION" and KDB 905462 D03 "U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY".

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode						
	Master	Client (without radar detection)	Client (with radar detection)				
Non-Occupancy Period	Yes	Not required	Yes				
DFS Detection Threshold	Yes	Not required	Yes				
Channel Availability Check Time	Yes	Not required	Not required				
U-NII Detection Bandwidth	Yes	Not required	Yes				

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode						
•	Master	Client (without DFS)	Client (with DFS)				
DFS Detection Threshold	Yes	Not required	Yes				
Channel Closing Transmission Time	Yes	Yes	Yes				
Channel Move Time	Yes	Yes	Yes				
U-NII Detection Bandwidth	Yes	Not required	Yes				

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar DFS	Client (without DFS)
U-NII Detection Bandwidth and	All BW modes must be tested	Not required
Statistical Performance Check		
Channel Move Time and Channel	Test using widest BW mode	Test using the widest
Closing Transmission Time	available	BW mode available
		for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

•		
Maximum Transmit Power	Value	
	(see notes)	
E.I.R.P. 200 milliwatt	-64 dBm	
E.I.R.P. < 200 milliwatt and	-62 dBm	
power spectral density < 10 dBm/MHz		
E.I.R.P. < 200 milliwatt that do not meet power spectral density	-64 dBm	
requirement		

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1)
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2)
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3)

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10-second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5 - Short Pulse Radar Test Waveforms

Dodor		DDI		Minimum	Minimum
Radar	Pulse	PRI	Pulses	Minimum	Minimum
Туре	Width	(usec)		Percentage	Trials
	(usec)			of Successful	
				Detection	
0	1	1428	18	See Note 1	See Note
					1
1	1	Test A: 15 unique		60%	30
		PRI values randomly			
		selected from the list	Roundup:		
		of 23 PRI values in	{(1/360) x (19 x 10 ⁶ PRI _{usec})}		
		table 5a			
		Test B: 15 unique			
		PRI values randomly			
		selected within the			
		range of 518-3066			
		usec. With a			
		minimum increment			
		of 1 usec, excluding			
		PRI values selected			
		in Test A			
	4 5		22.20	C00/	20
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
		Aggregate (Radar T	ypes 1-4)	80%	120

Note 1: Short Pulse Radar Type 0 should be used for the *Detection Bandwidth* test, *Channel Move Time*, and *Channel Closing Time* tests.

Table 6 - Long Pulse Radar Test Signal

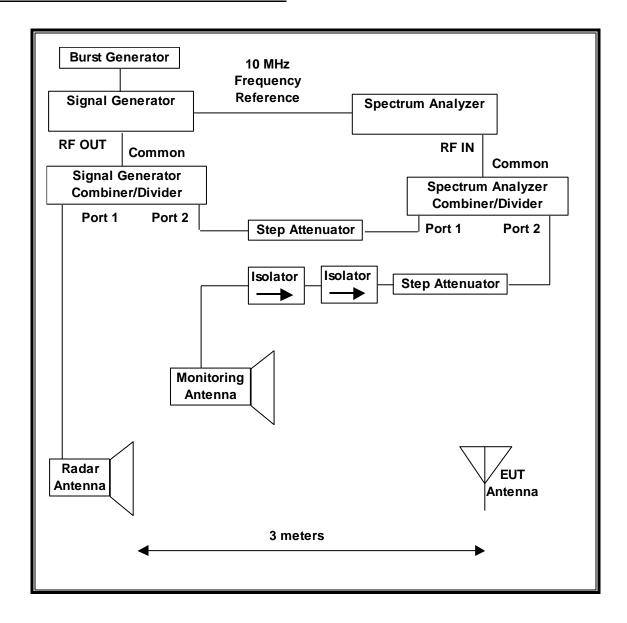
Radar	Pulse	Chirp	PRI	Pulses	Number	Minimum	Minimum
Waveform	Width	Width	(µsec)	per	of	Percentage of	Trials
Type	(µsec)	(MHz)		Burst	Bursts	Successful	
						Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

Table 7 - Frequency Hopping Radar Test Signal

Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Waveform	Width	(µsec)	per	Rate	Sequence	Percentage of	Trials
Type	(µsec)	, ,	Hop	(kHz)	Length (msec)	Successful	
			-			Detection	
6	1	333	9	0.333	300	70%	30

11.1.1. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

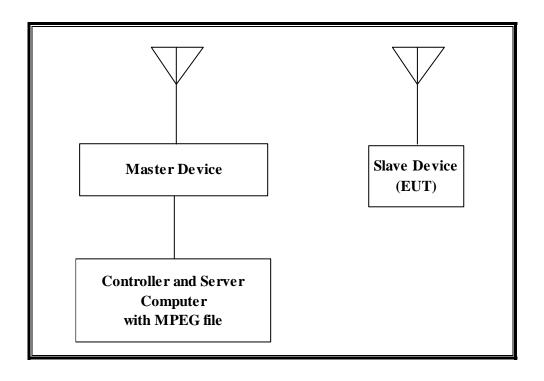
TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the DFS tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	Cal Due	
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	US51350187	06/01/16	
Signal Generator, MXG X-Series RF Vector	Agilent	N5172B	MY51350337	02/17/16	

11.1.2. SETUP OF EUT (CLIENT MODE)

RADIATED METHOD EUT TEST SETUP



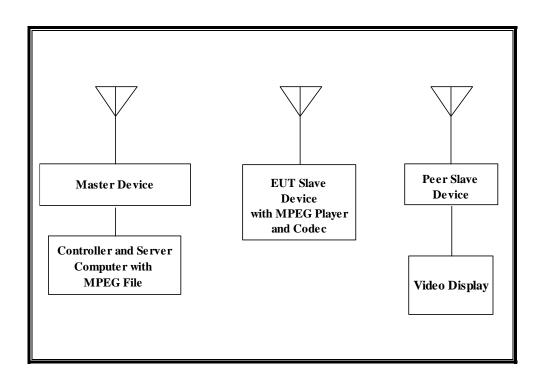
SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST							
Description	Manufacturer	Model	Serial Number	FCC ID			
802.11a/b/g/n/ac Wireless Access (Master Device)	Apple	A1392	C86LCE5GFJ1R	BCGA1470			
Notebook PC (Controller/Server)	Apple	A1181	W865101LWGK	DoC			
AC Adapter (Controller/Server PC)	Delta Electronics	A1143	C0420640G9KDJ92 BD	DoC			

SETUP OF EUT (CLIENT-TO-CLIENT COMMUNICATIONS MODE) 11.1.3.

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST						
Description	Manufacturer	Model	Serial Number	FCC ID		
802.11a/b/g/n/ac Wireless Access (Master Device)	Apple	A1392	C86LCE5GFJ1R	BCGA1470		
Notebook PC (Controller/Server)	Apple	A1181	W865101LWGK	DoC		
AC Adapter (Controller/Server PC)	Delta Electronics	A1143	C0420640G9KDJ92 BD	DoC		
Apple TV (Peer Slave Device)	Apple	A1469	4/11/1914	BCGA1469		
Video Display	Dell	U2410f	CN-0FJ525N-72872- 1B5-AGAL	DoC		

11.1.4. DESCRIPTION OF EUT

For FCC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

For IC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges, excluding the 5600-5650 MHz range.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 19.74 dBm EIRP in the 5250-5350 MHz band and 18.72 dBm EIRP in the 5470-5725 MHz band.

The highest gain antenna assembly utilized with the EUT has a gain of 2.9 dBi in the 5250-5350 MHz band and 3.1 dBi in the 5470-5725 MHz band. The lowest gain antenna assembly utilized with the EUT has a gain of 2.3 dBi in the 5250-5350 MHz band and 2.7 dBi in the 5470-5725 MHz band.

Two identical antennas are utilized to meet the diversity and MIMO operational requirements.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is -64 + 1 = -63 dBm.

The calibrated radiated DFS Detection Threshold level is set to –64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The EUT uses two transmitter/receiver chain, each connected to an antenna to perform radiated tests.

WLAN traffic is generated by streaming the video file TestFile.mp2 "6 ½ Magic Hours" from the Master to the Slave in full motion video mode using OPlayer HD media player.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

The EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

In Client-to-Client Communications Mode the EUT utilizes the 802.11ac architecture between the EUT and the Master Device 2 where three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz. However, 802.11a/n architecture is utilized between the EUT and the Peer Slave Device in Client-to Client Communications Mode where only two nominal channel bandwidths are implemented: 20 MHz and 40 MHz.

The software installed in the EUT is 9.1 (13B95).

The software installed in the access point is AP3G2-K9W7-M Version 7.7D3.

UNIFORM CHANNEL SPREADING

This function is not required per KDB 905462.

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OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device is an Apple, Inc. Access Point, FCC ID: BCGA1470. The minimum antenna gain for the Master Device is 1.4 dBi.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is -64 + 1 = -63 dBm.

The calibrated radiated DFS Detection Threshold level is set to –64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The software installed in the access point is AP3G2-K9W7-M Version 7.7D3.

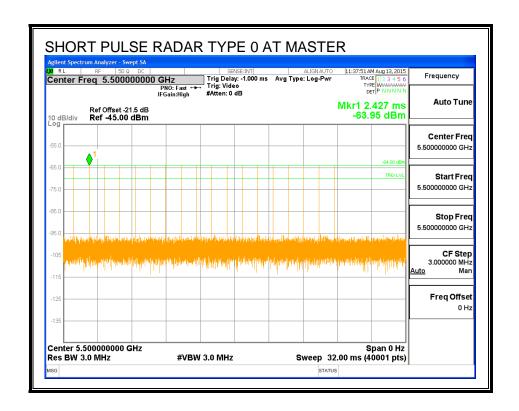
11.2. **CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH**

11.2.1. **TEST CHANNEL**

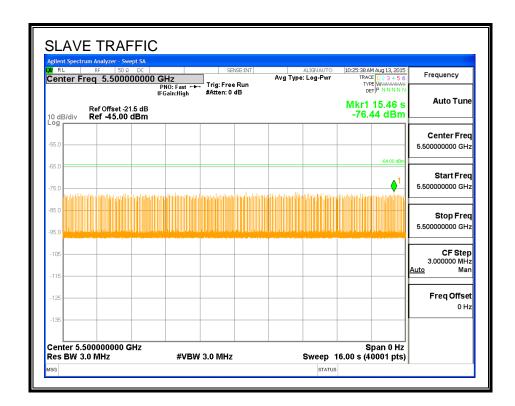
All tests were performed at a channel center frequency of 5500 MHz.

RADAR WAVEFORM AND TRAFFIC 11.2.2.

RADAR WAVEFORM

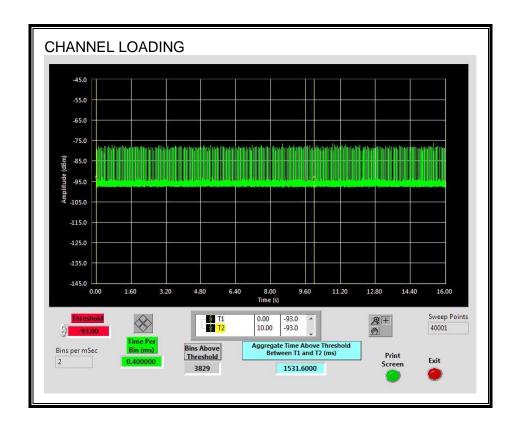


TRAFFIC



REPORT NO: 14U19185-E9V4 DATE: SEPTEMBER 14, 2015 FCC ID: BCGA1652 EUT MODEL: A1652

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 15.31%

11.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

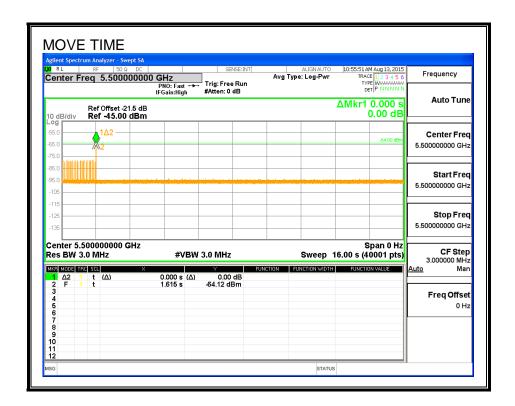
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

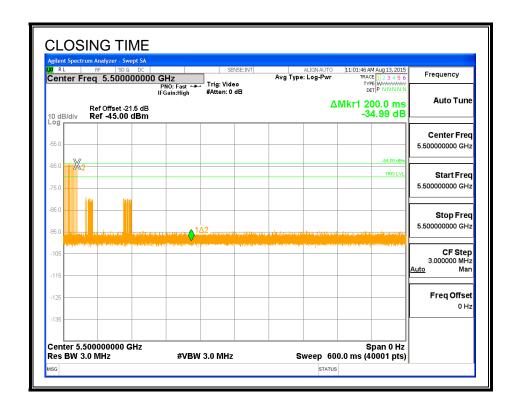
Channel Move Time	Limit
(sec)	(sec)
0.000	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

MOVE TIME

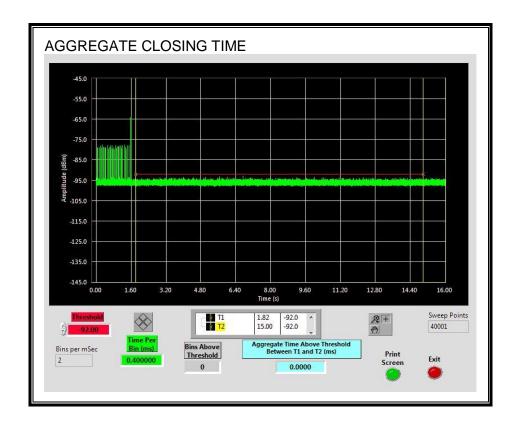


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



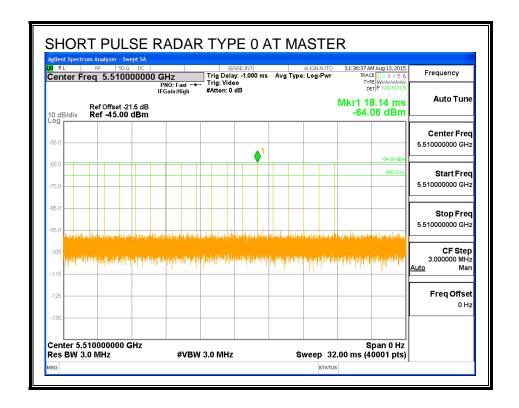
11.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

11.3.1. TEST CHANNEL

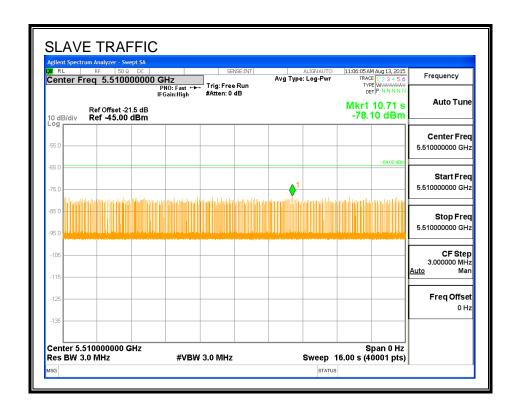
All tests were performed at a channel center frequency of 5510 MHz.

11.3.2. RADAR WAVEFORM AND TRAFFIC

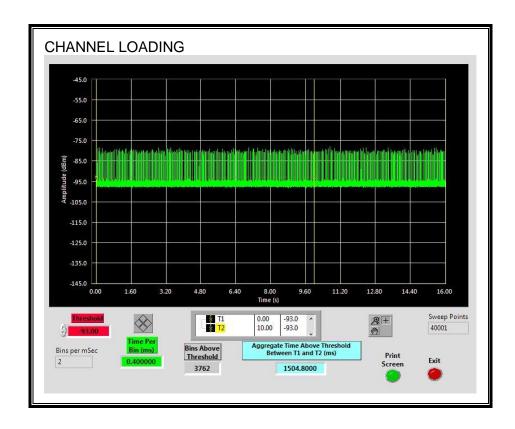
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 15.05%

11.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

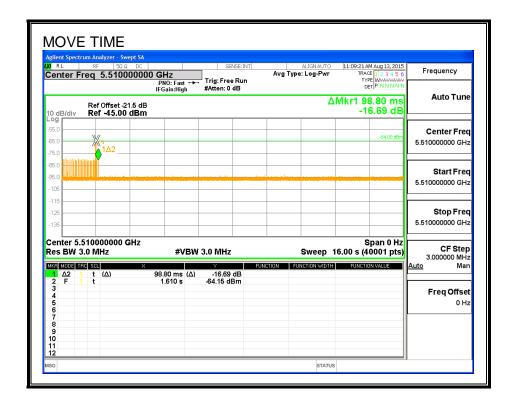
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

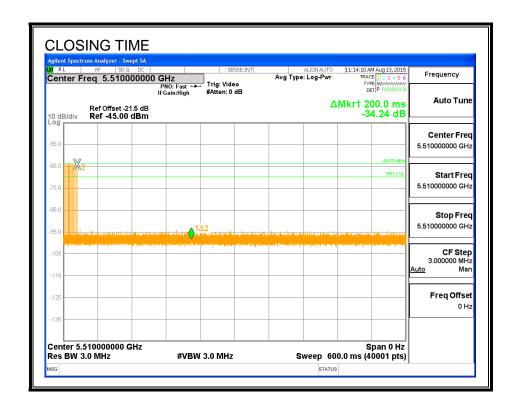
Channel Move Time	Limit
(sec)	(sec)
0.988	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

MOVE TIME

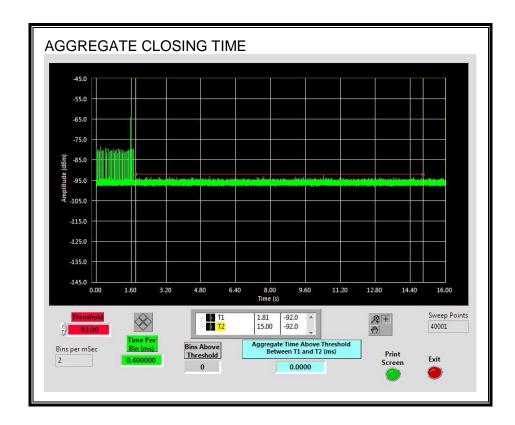


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

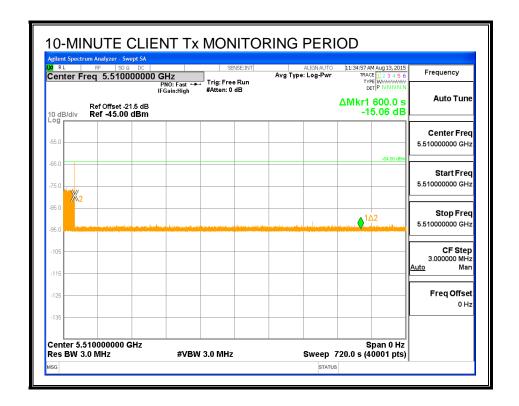
No transmissions are observed during the aggregate monitoring period.



11.3.5. 10-MINUTE CLIENT Tx MONITORING PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.



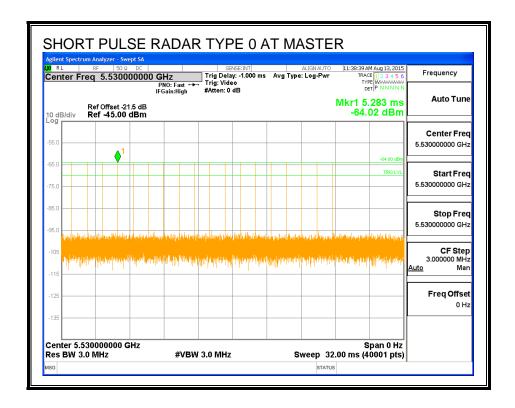
11.4. CLIENT MODE RESULTS FOR 80 MHz BANDWIDTH

11.4.1. TEST CHANNEL

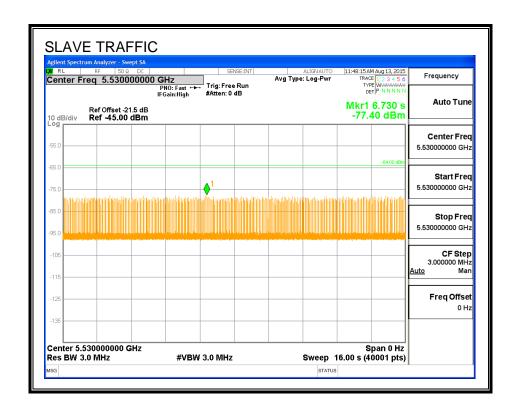
All tests were performed at a channel center frequency of 5530 MHz.

11.4.2. RADAR WAVEFORM AND TRAFFIC

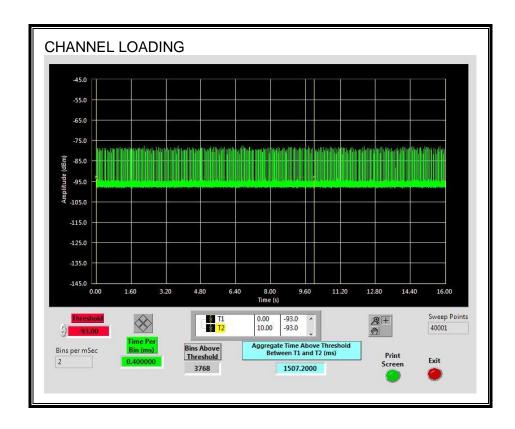
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 15.07%

11.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.4.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

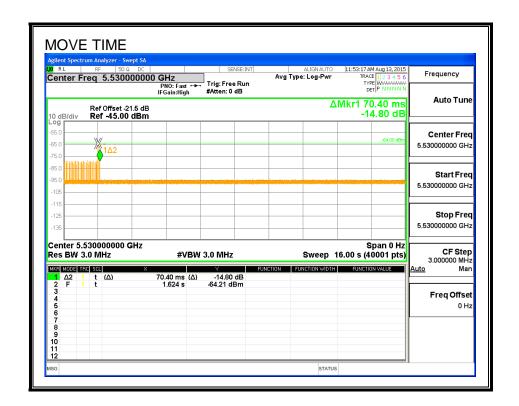
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

Channel Move Time	Limit
(sec)	(sec)
0.0704	10

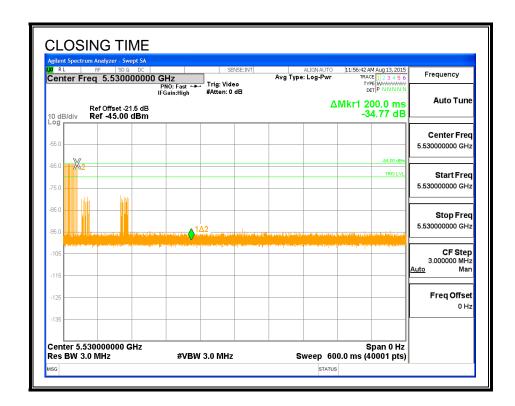
Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

MOVE TIME



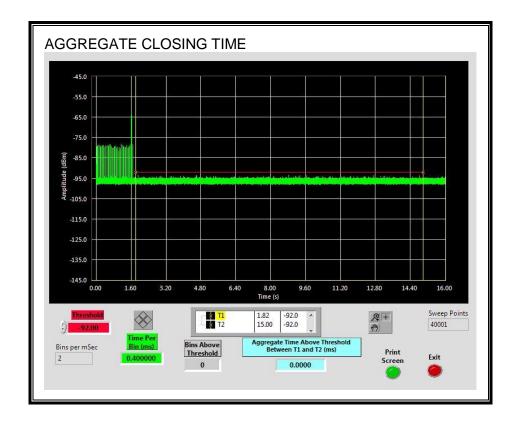
REPORT NO: 14U19185-E9V4 DATE: SEPTEMBER 14, 2015 FCC ID: BCGA1652 EUT MODEL: A1652

CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

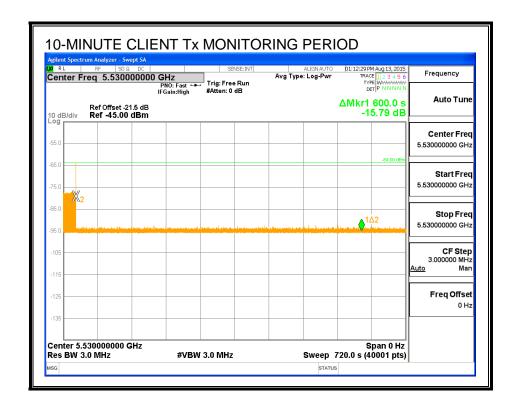
No transmissions are observed during the aggregate monitoring period.



11.4.5. 10-MINUTE CLIENT Tx MONITORING PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.



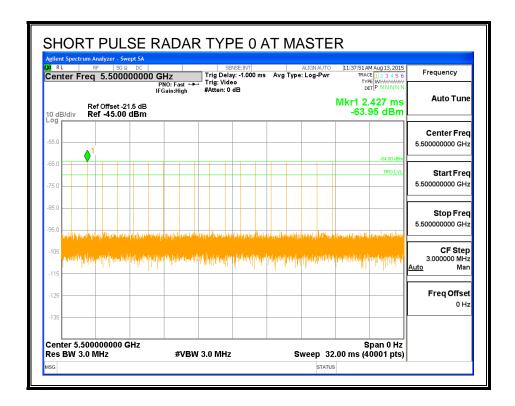
-CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 20 11.5. **MHz BANDWIDTH**

11.5.1. **TEST CHANNEL**

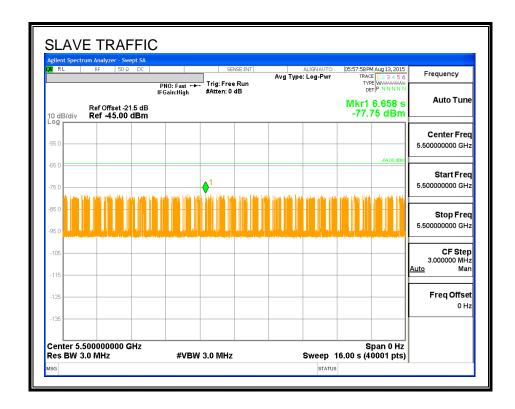
All tests were performed at a channel center frequency of 5500 MHz.

11.5.2. RADAR WAVEFORM AND TRAFFIC

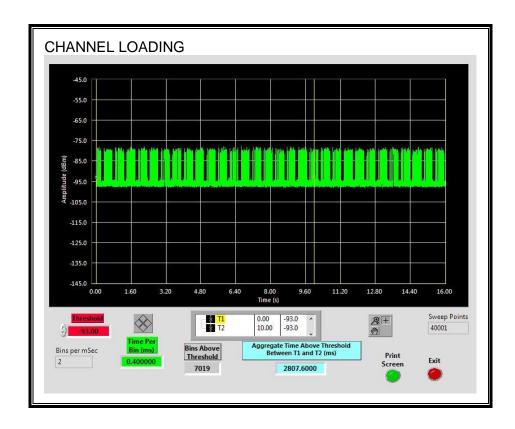
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 28.076%

11.5.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.5.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

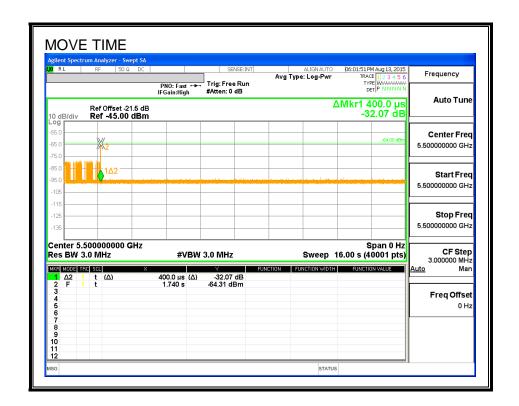
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

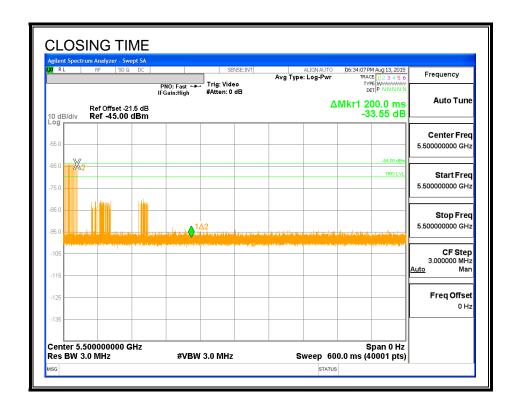
Channel Move Time	Limit
(sec)	(sec)
0.000	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

MOVE TIME

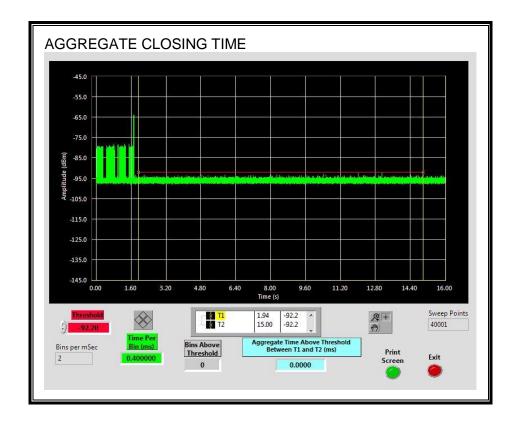


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



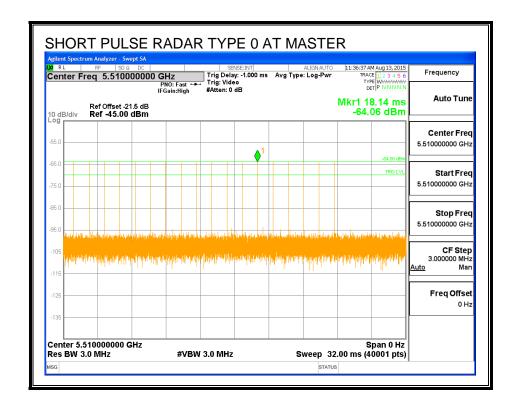
11.6. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 40 MHz BANDWIDTH

11.6.1. TEST CHANNEL

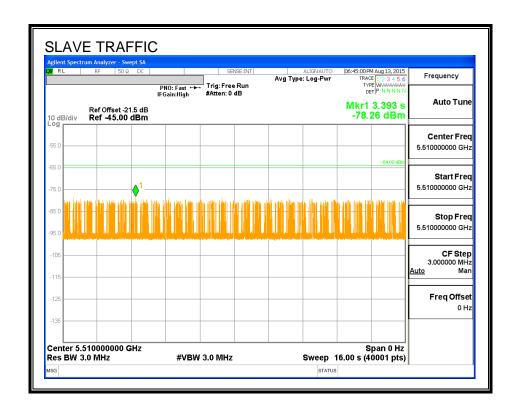
All tests were performed at a channel center frequency of 5510 MHz.

11.6.2. RADAR WAVEFORM AND TRAFFIC

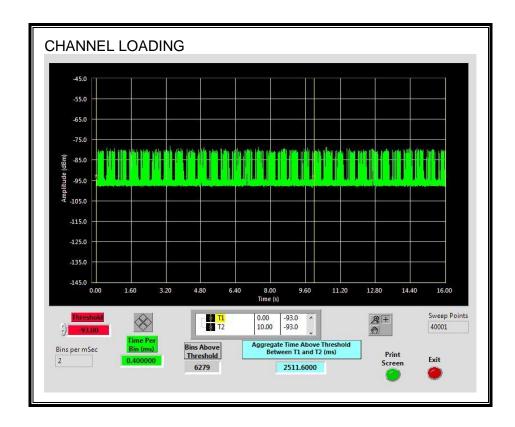
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 25.116%

11.6.3. **OVERLAPPING CHANNEL TESTS**

RESULTS

These tests are not applicable.

MOVE AND CLOSING TIME 11.6.4.

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

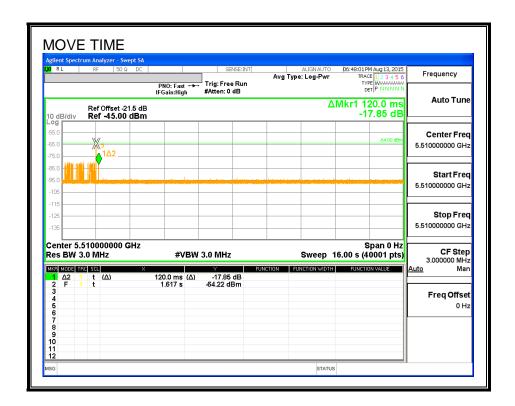
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

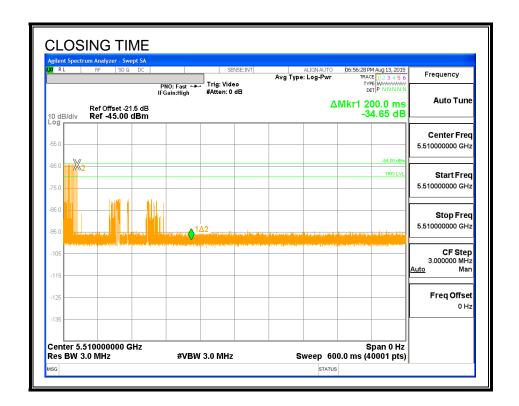
Channel Move Time	Limit
(sec)	(sec)
0.120	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

MOVE TIME

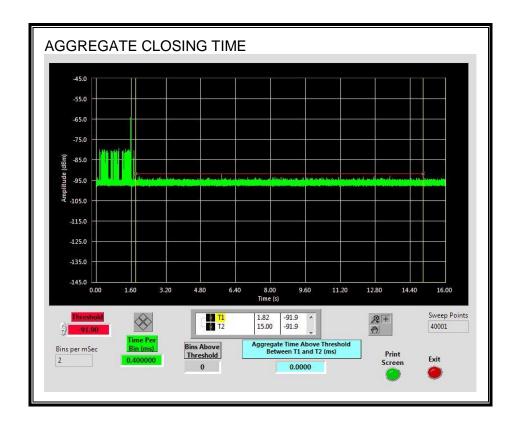


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

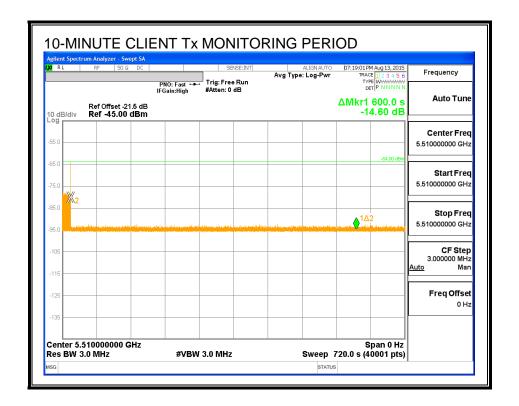
No transmissions are observed during the aggregate monitoring period.



11.6.5. 10-MINUTE CLIENT Tx MONITORING PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.



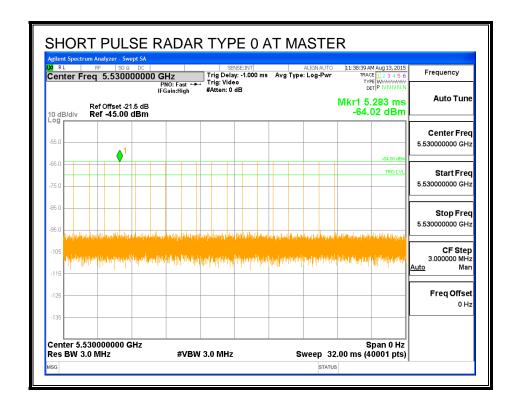
CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 80 11.7. MHz BANDWIDTH

11.7.1. **TEST CHANNEL**

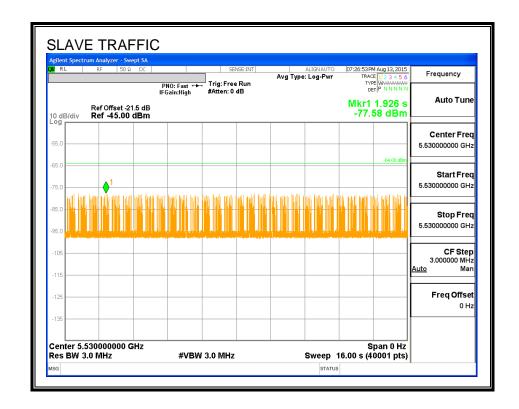
All tests were performed at a channel center frequency of 5530 MHz.

11.7.2. RADAR WAVEFORM AND TRAFFIC

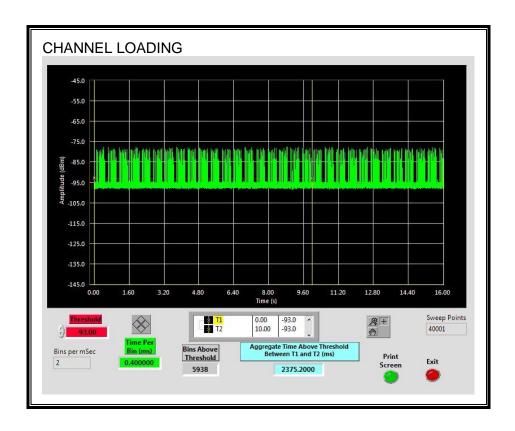
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 23.752%

11.7.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

11.7.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

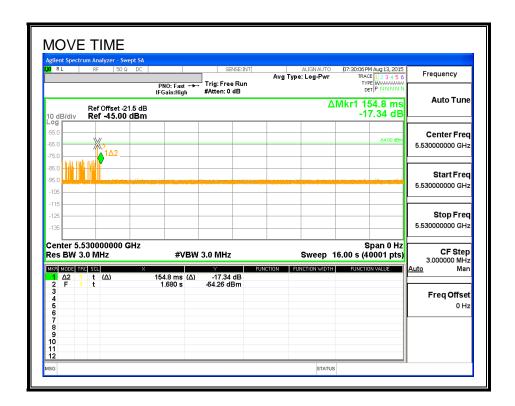
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

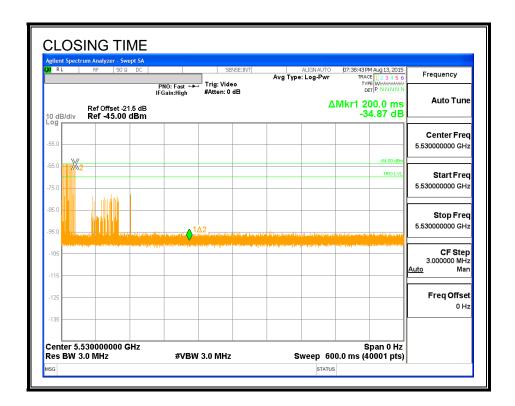
Channel Move Time	Limit
(sec)	(sec)
0.155	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

MOVE TIME

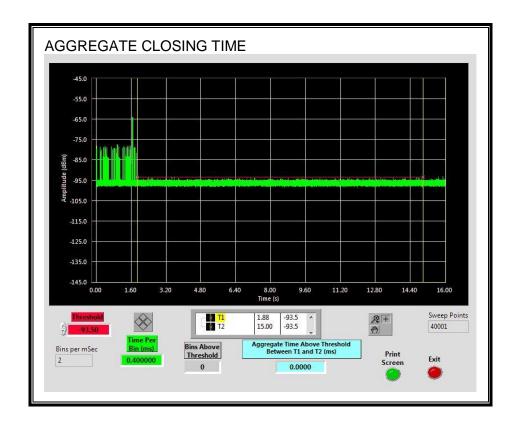


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



11.7.5. 10-MINUTE CLIENT Tx MONITORING PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.

