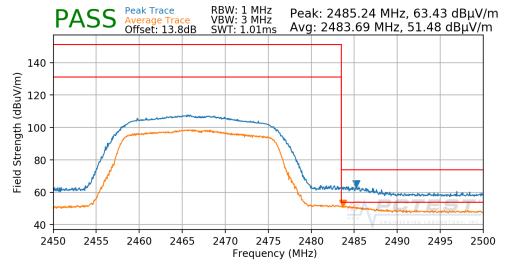
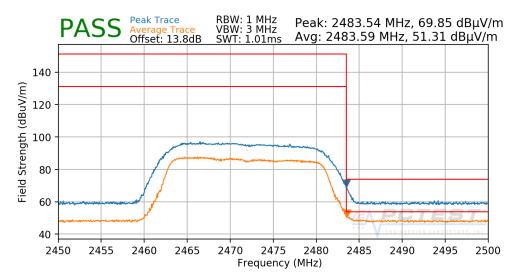


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11n
MCS0
3 Meters
2467MHz
12



Plot 7-156. Radiated Restricted Upper Band Edge Measurement SISO CORE0 (Average & Peak)



Plot 7-157. Radiated Restricted Upper Band Edge Measurement SISO CORE0 (Average & Peak)

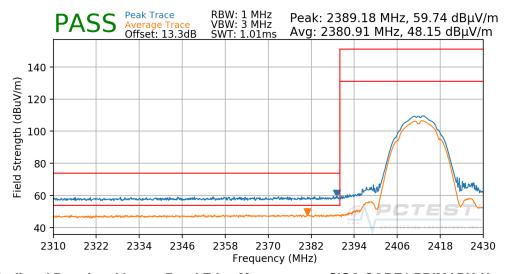
FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 119 of 142
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# 7.7.7 SISO Core1 Primary Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

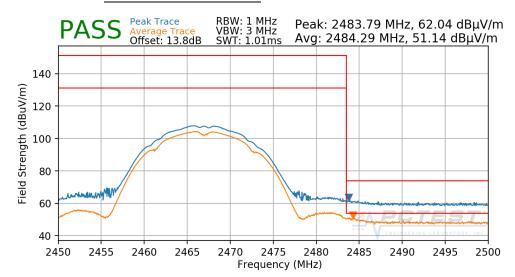
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11b Worst Case Transfer Rate: 1Mbps 3 Meters Distance of Measurements: Operating Frequency: 2412MHz Channel:



Plot 7-158. Radiated Restricted Lower Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

Worst Case Mode: 802.11b Worst Case Transfer Rate: 1Mbps Distance of Measurements: 3 Meters Operating Frequency: 2467MHz Channel: 12



Plot 7-159. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

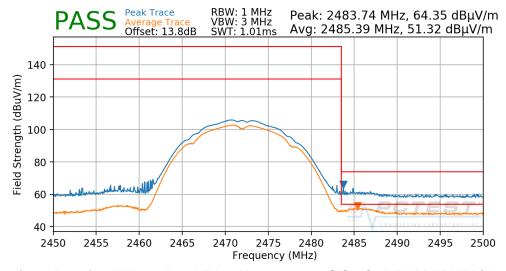
FCC ID: BCGA2014	INGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 110 of 142
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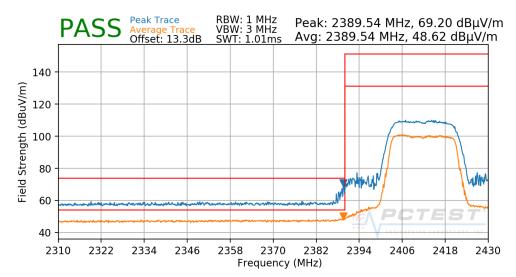
Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11b

1Mbps
3 Meters
2472MHz
13



Plot 7-160. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

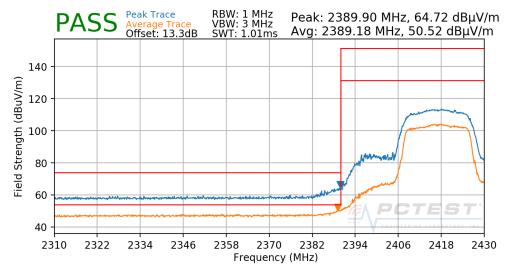


Plot 7-161. Radiated Restricted Lower Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

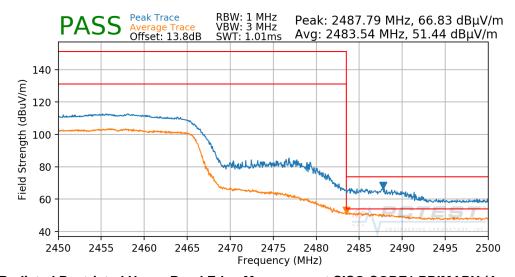
FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 142
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Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2417MHz
Channel: 2



Plot 7-162. Radiated Restricted Lower Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)



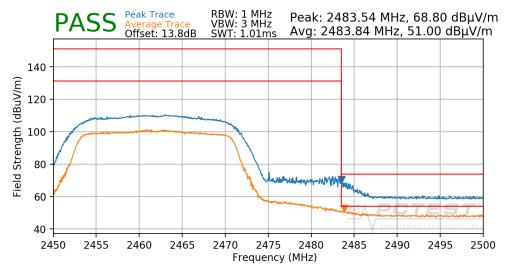
Plot 7-163. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 121 of 142
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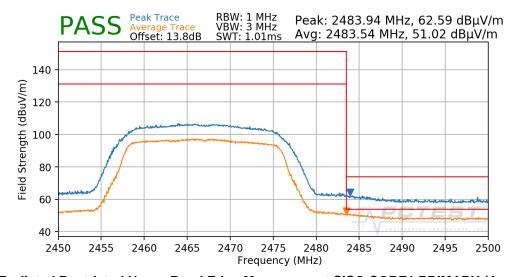


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11n
MCS0
3 Meters
2462MHz
11



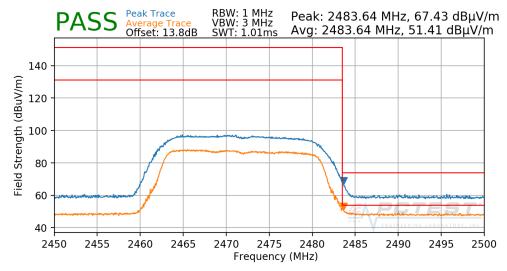
Plot 7-164. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)



Plot 7-165. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

FCC ID: BCGA2014	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 122 of 142
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Plot 7-166. Radiated Restricted Upper Band Edge Measurement SISO CORE1 PRIMARY (Average & Peak)

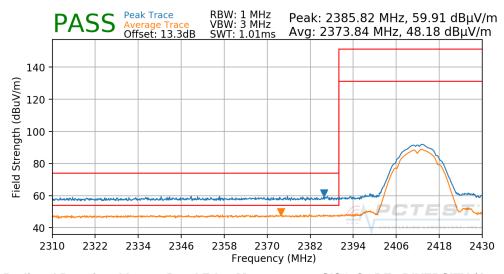
FCC ID: BCGA2014	INGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 122 of 142
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# 7.7.8 SISO Core1 Diversity Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

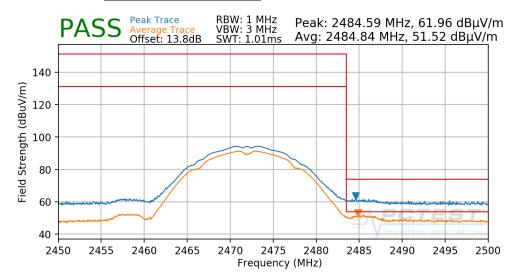
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11b Worst Case Transfer Rate: 1Mbps Distance of Measurements: 3 Meters Operating Frequency: 2412MHz Channel:



Plot 7-167. Radiated Restricted Lower Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

Worst Case Mode: 802.11b Worst Case Transfer Rate: 1Mbps Distance of Measurements: 3 Meters Operating Frequency: 2472MHz Channel: 13



Plot 7-168. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

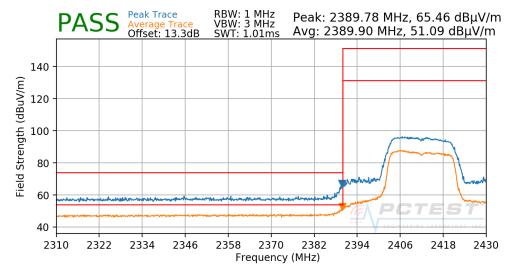
802.11n

MCS0

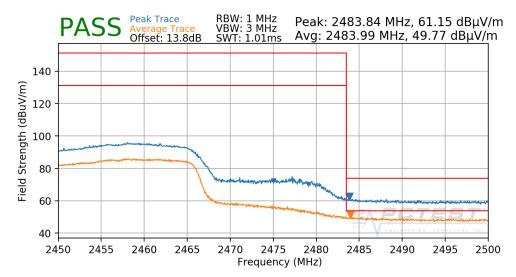
3 Meters

2412MHz

1



Plot 7-169. Radiated Restricted Lower Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)



Plot 7-170. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

FCC ID: BCGA2014	INGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 105 of 140
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

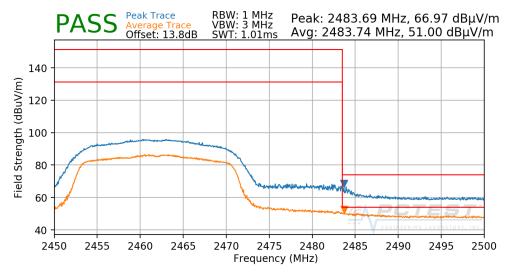
802.11n

MCS0

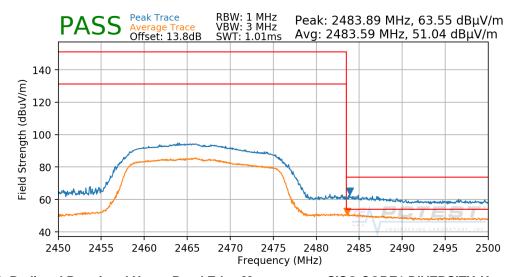
3 Meters

2462MHz

11



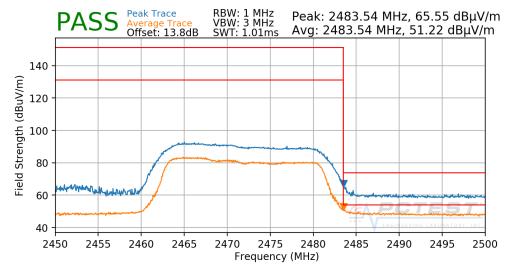
Plot 7-171. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)



Plot 7-172. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

FCC ID: BCGA2014	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 406 of 440
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Plot 7-173. Radiated Restricted Upper Band Edge Measurement SISO CORE1 DIVERSITY (Average & Peak)

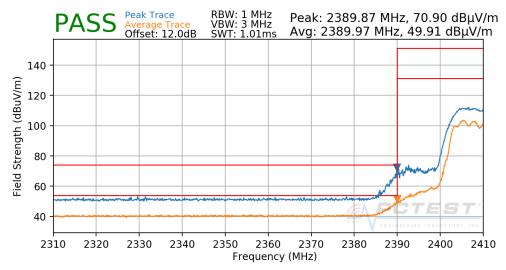
FCC ID: BCGA2014	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 127 of 142
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# 7.7.9 CDD Primary Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

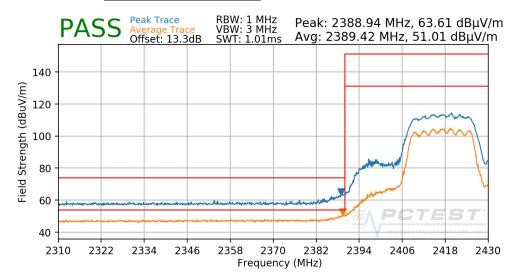
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS0 3 Meters Distance of Measurements: Operating Frequency: 2412MHz Channel:



Plot 7-174. Radiated Restricted Lower Band Edge Measurement CDD PRIMARY (Average & Peak)

Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS<sub>0</sub> Distance of Measurements: 3 Meters Operating Frequency: 2417MHz Channel: 2



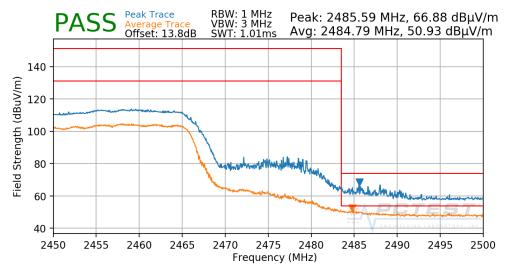
Plot 7-175. Radiated Restricted Lower Band Edge Measurement CDD PRIMARY (Average & Peak)

FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 129 of 142
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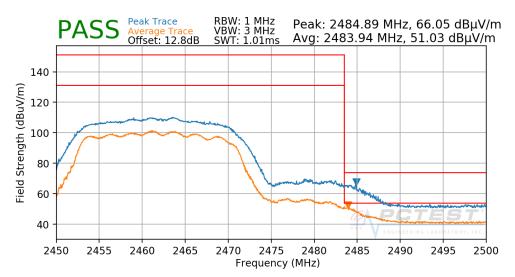


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11n
MCS0
3 Meters
2457MHz
10



Plot 7-176. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY (Average & Peak)



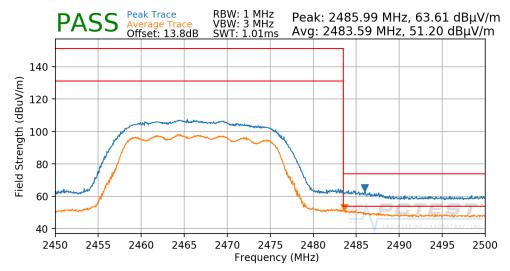
Plot 7-177. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY (Average & Peak)

FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 142
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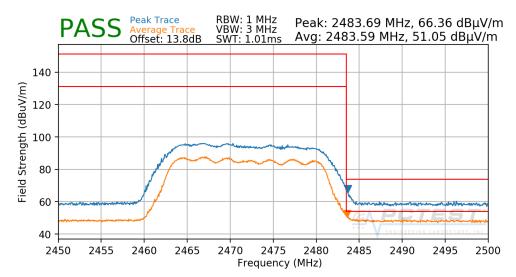


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11n
MSC0
3 Meters
2467MHz
12



Plot 7-178. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY (Average & Peak)



Plot 7-179. Radiated Restricted Upper Band Edge Measurement CDD PRIMARY (Average & Peak)

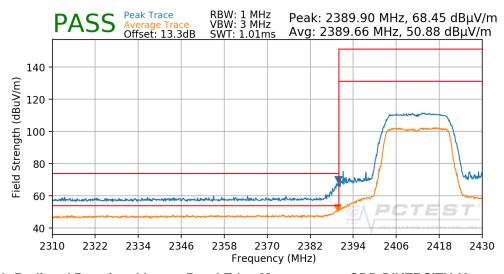
FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 120 of 142
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# 7.7.10 CDD Diversity Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

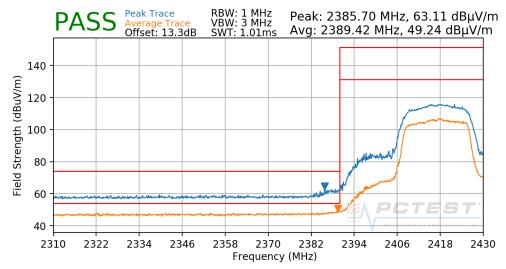
The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS0 3 Meters Distance of Measurements: Operating Frequency: 2412MHz Channel:



Plot 7-180. Radiated Restricted Lower Band Edge Measurement CDD DIVERSITY (Average & Peak)

Worst Case Mode: 802.11n MCS0 Worst Case Transfer Rate: Distance of Measurements: 3 Meters Operating Frequency: 2417MHz Channel: 2



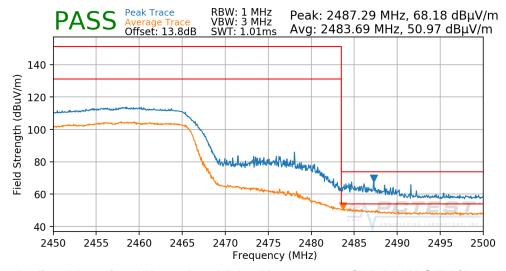
Plot 7-181. Radiated Restricted Lower Band Edge Measurement CDD DIVERSITY (Average & Peak)

FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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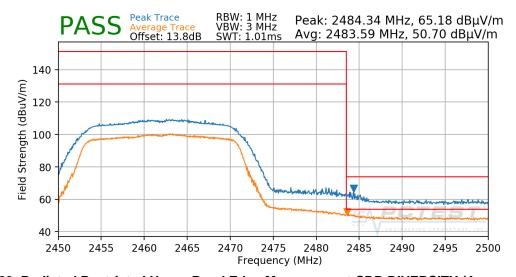


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11n
MCS0
3 Meters
2457MHz
10



Plot 7-182. Radiated Restricted Upper Band Edge Measurement CDD DIVERSITY (Average & Peak)



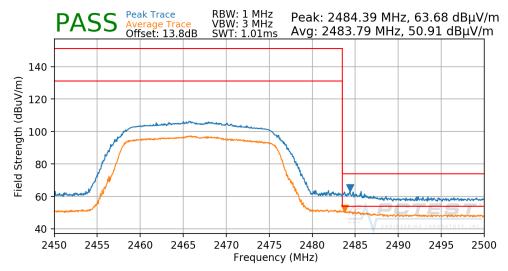
Plot 7-183. Radiated Restricted Upper Band Edge Measurement CDD DIVERSITY (Average & Peak)

FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 122 of 142
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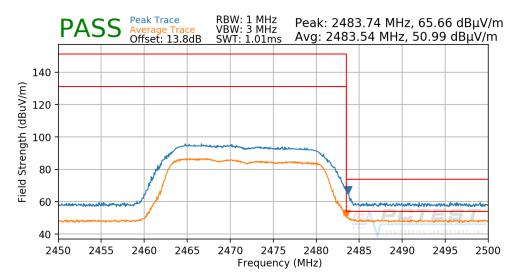


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11n
MSC0
3 Meters
2467MHz
12



Plot 7-184. Radiated Restricted Upper Band Edge Measurement CDD DIVERSITY (Average & Peak)



Plot 7-185. Radiated Restricted Upper Band Edge Measurement CDD DIVERSITY (Average & Peak)

FCC ID: BCGA2014	INGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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### Radiated Spurious Emissions Measurements - Below 1GHz 7.8

§15.209; RSS-Gen [8.9]

### **Test Overview and Limit**

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-40 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 - 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-40. Radiated Limits

### **Test Procedures Used**

ANSI C63.10-2013

### **Test Settings**

### Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 100kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- Trace mode = max hold
- 7. Trace was allowed to stabilize

## **Quasi-Peak Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- Trace mode = max hold
- 6. Trace was allowed to stabilize

FCC ID: BCGA2014	PCTEST INGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## **Test Setup**

The EUT and measurement equipment were set up as shown in the diagrams below.

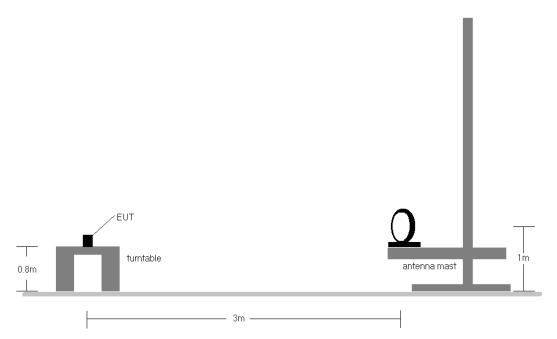


Figure 7-7. Radiated Test Setup < 30Mhz

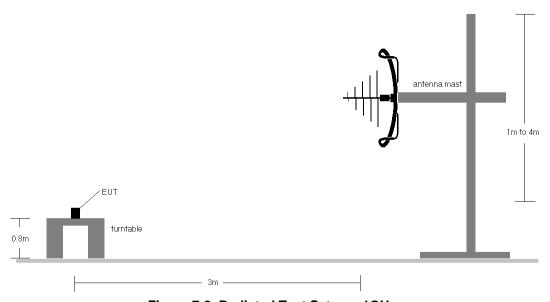


Figure 7-8. Radiated Test Setup < 1GHz

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### **Test Notes**

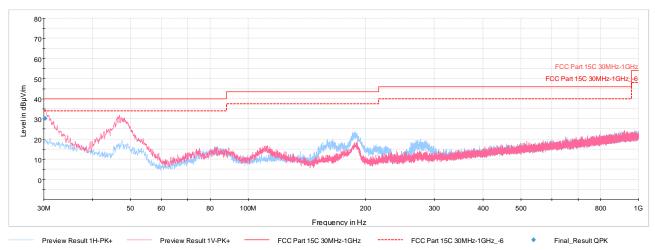
- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-40.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- 9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz - 1GHz frequency range, as shown in the subsequent plots.

FCC ID: BCGA2014	PETEST INGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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# Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-186. Radiated Spurious Plot below 1GHz CDD Primary (802.11n - Ch. 6)

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
30.24	Quasi-Peak	V	100	288	-9.90	34.73	40.00	-5.27
46.83	Peak	٧	100	99	-19.76	31.91	40.00	-8.09
59.10	Peak	V	100	252	-23.37	13.10	40.00	-26.90
111.04	Peak	V	100	300	-17.98	16.73	43.52	-26.79
187.53	Peak	Н	100	247	-20.00	23.39	43.52	-20.13
276.67	Peak	Н	100	311	-16.90	20.18	46.02	-25.84

Table 7-41. Radiated Spurious Emissions below 1GHz CDD Primary (802.11n - Ch. 6)

FCC ID: BCGA2014	EXGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## AC Line-Conducted Test Data

§15.207; RSS-Gen [8.8]

### **Test Overview and Limit**

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission	Conducted I	Limit (dBμV)
(MHz)	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-42. Conducted Limits** 

### **Test Procedures Used**

ANSI C63.10-2013, Section 6.2

## **Test Settings**

### **Quasi-Peak Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

### **Average Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- RBW = 9kHz (for emissions from 150kHz 30MHz)
- Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

FCC ID: BCGA2014	PETEST INGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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<sup>\*</sup>Decreases with the logarithm of the frequency.



## **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.

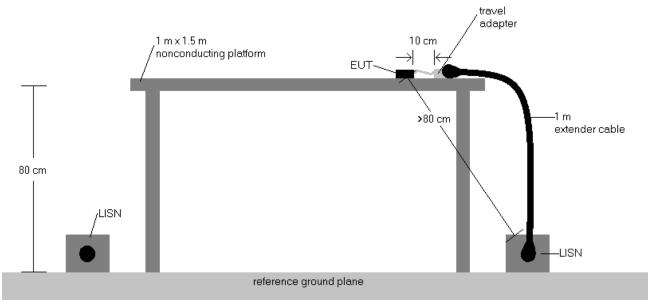


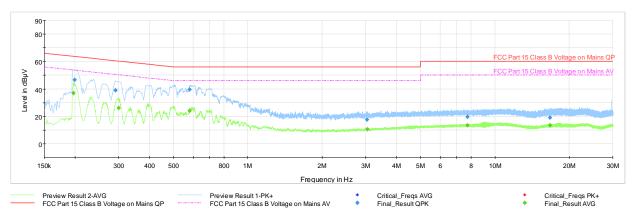
Figure 7-9. Test Instrument & Measurement Setup

## **Test Notes**

- All modes of operation were investigated and the worst-case emissions are reported using mid channel. 1. The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB) 3.
- 4. QP/AV Level (dB $\mu$ V) = QP/AV Analyzer/Receiver Level (dB $\mu$ V) + Corr. (dB)
- Margin (dB) = QP/AV Limit (dB $\mu$ V) QP/AV Level (dB $\mu$ V) 5.
- Traces shown in plot are made using a peak detector. 6.
- 7. Deviations to the Specifications: None.

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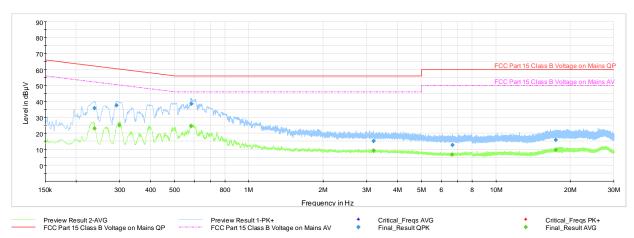
Plot 7-187. Line Conducted Plot with CDD Primary 802.11n - Ch. 6 (L1, with Adapter)

Frequency MHz	Process State	QuasiPeak dBμV	Average dBμV	Limit dBµV	Marqin dB	Bandwidth kHz	Line	PE
0.197	FINAL	_	36.86	53.74	-16.88	9.00	L1	GND
0.199	FINAL	46.54	_	63.65	17.11	9.00	L1	GND
0.291	FINAL	38.83	_	60.50	-21.67	9.00	L1	GND
0.300	FINAL	_	26.10	50.24	-24.14	9.00	L1	GND
0.582	FINAL	_	23.92	46.00	-22.08	9.00	L1	GND
0.582	FINAL	39.45	_	56.00	-16.55	9.00	L1	GND
3.040	FINAL	17.52	_	56.00	-38.48	9.00	L1	GND
3.041	FINAL	_	10.58	46.00	-35.42	9.00	L1	GND
7.743	FINAL	19.59	_	60.00	-40.41	9.00	L1	GND
7.748	FINAL	_	13.34	50.00	-36.66	9.00	L1	GND
16.703	FINAL	_	13.34	50.00	-36.66	9.00	L1	GND
16.713	FINAL	19.05	_	60.00	-40.95	9.00	L1	GND

Table 7-43. Line Conducted Data with CDD Primary 802.11n - Ch. 6 (L1, with Adapter)

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Plot 7-188. Line Conducted Plot with CDD Primary 802.11n - Ch. 6 (N, with Adapter)

Frequency MHz	Process State	QuasiPeak dBµV	Average dBµV	Limit dBµ∀	Marqin dB	Bandwidth kHz	Line	PE
0.237	FINAL	_	22.97	52.20	-29.23	9.00	N	GND
0.237	FINAL	35.70	_	62.20	-26.50	9.00	N	GND
0.291	FINAL	37.56	_	60.50	-22.94	9.00	Ν	GND
0.299	FINAL	_	25.04	50.27	-25.23	9.00	N	GND
0.583	FINAL	_	24.65	46.00	-21.35	9.00	N	GND
0.586	FINAL	38.54	_	56.00	-17.46	9.00	N	GND
3.192	FINAL	15.05	_	56.00	-40.95	9.00	N	GND
3.192	FINAL	_	9.04	46.00	-36.96	9.00	N	GND
6.648	FINAL	_	6.79	50.00	-43.21	9.00	N	GND
6.666	FINAL	12.59	_	60.00	-47.41	9.00	Ν	GND
17.436	FINAL	15.99	_	60.00	-44.01	9.00	N	GND
17.469	FINAL	_	9.69	50.00	-40.31	9.00	N	GND

Table 7-44. Line Conducted Data with CDD Primary 802.11n - Ch. 6 (N, with Adapter)

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#### CONCLUSION 8.0

The data collected relate only the item(s) tested and show that the Apple Tablet Device FCC ID: BCGA2014 is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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