

# 7.7.5 Antenna 2a 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:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

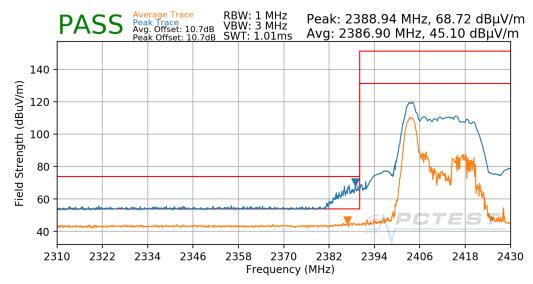
MCS5

0

3 Meters

2412MHz

1



Plot 7-159. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

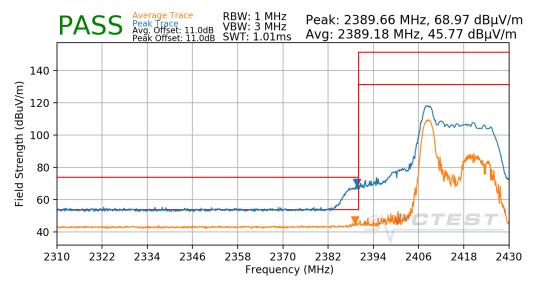
FCC ID: BCGA2379 IC: 579C-A2379	PCTEST* Proud to be part of selement	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 100 of 150
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS5
0
3 Meters
2417MHz



Plot 7-160. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

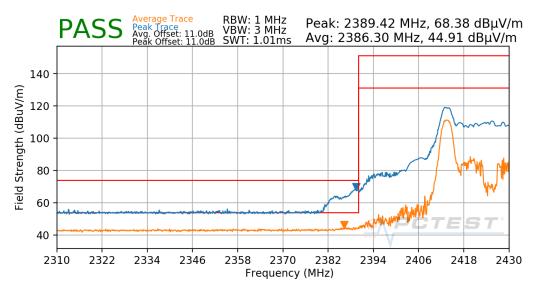
MCS5

0

3 Meters

2422MHz

3



Plot 7-161. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average - RU26)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 407 of 450
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

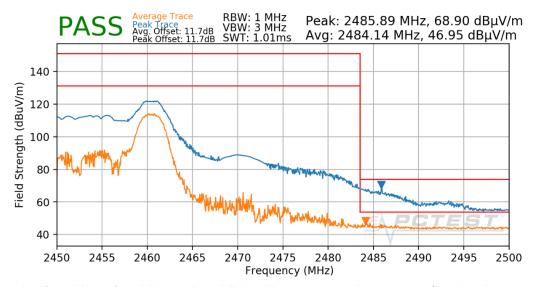
MCS5

8

3 Meters

2452MHz

9



Plot 7-162. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

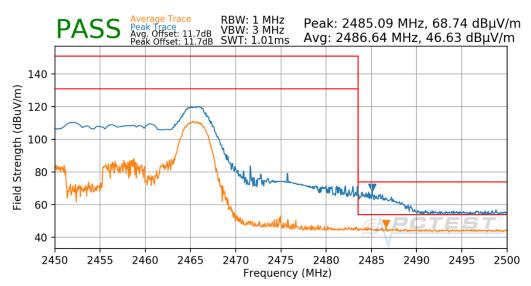
MCS5

8

3 Meters

2457MHz

10



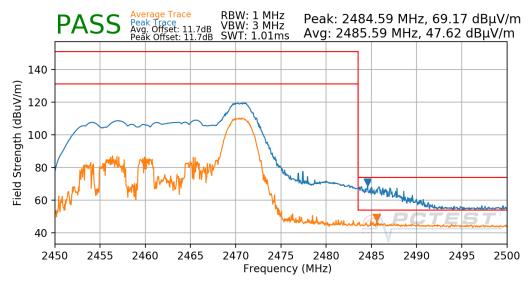
Plot 7-163. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average - RU26)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS5
8
3 Meters
2462MHz
11



Plot 7-164. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

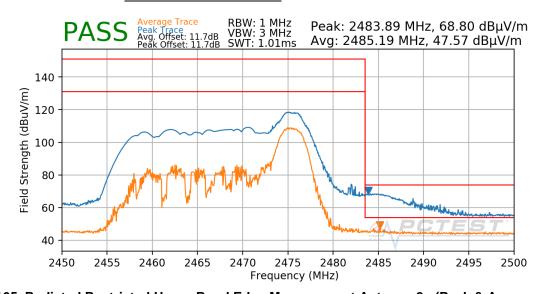
MCS5

8

3 Meters

2467MHz

12



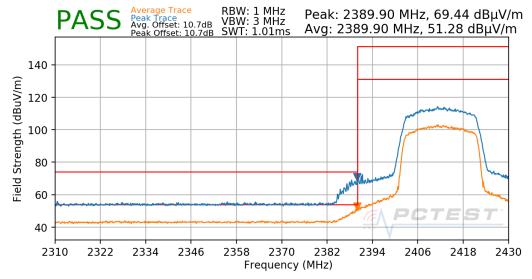
Plot 7-165. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU26)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST*  Proud to be part of selement	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS5
61
3 Meters
2412MHz



Plot 7-166. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

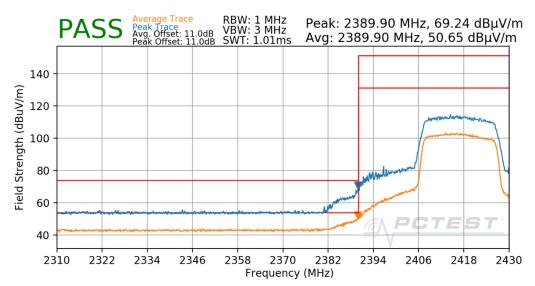
MCS5

61

3 Meters

2417MHz

2



Plot 7-167. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average - RU242)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

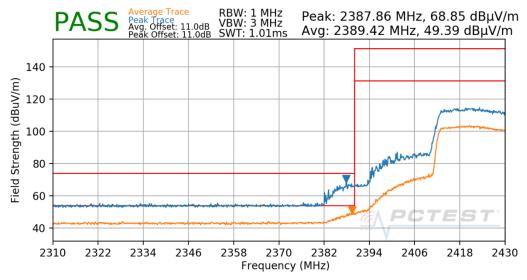
MCS5

61

3 Meters

2422MHz

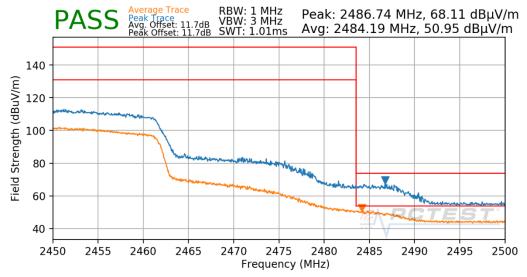
3



Plot 7-168. Radiated Restricted Lower Band Edge Measurement Antenna 2a (Peak & Average – RU242)

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

802.11ax OFDMA
MCS5
61
3 Meters
2452MHz
9



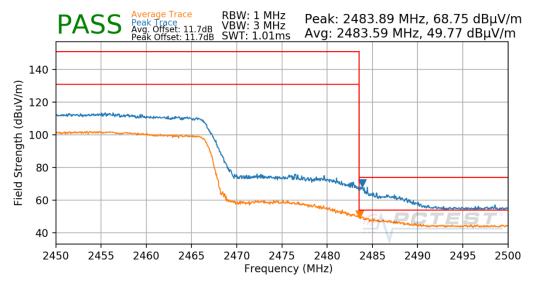
Plot 7-169. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average - RU242)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

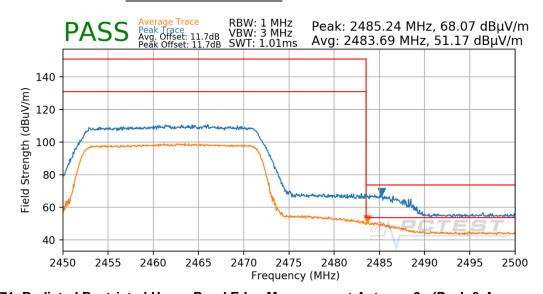
802.11ax OFDMA
MCS5
61
3 Meters
2457MHz
10



Plot 7-170. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

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

802.11ax OFDMA
MCS5
61
3 Meters
2462MHz
11



Plot 7-171. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

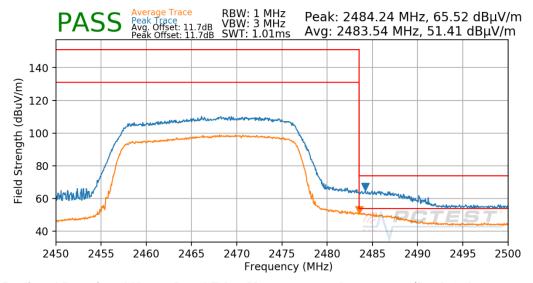
MCS5

61

3 Meters

2467MHz

12



Plot 7-172. Radiated Restricted Upper Band Edge Measurement Antenna 2a (Peak & Average – RU242)

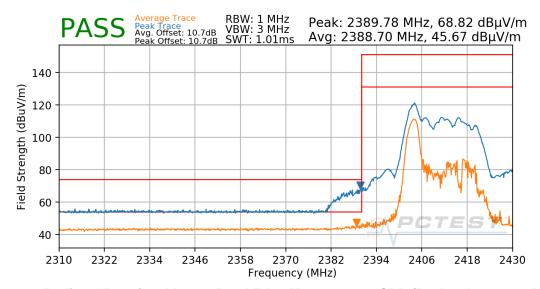
FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 422 of 452
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#### 7.7.6 **CDD Radiated Restricted Band Edge Measurements** §15.205 §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: 802.11ax OFDMA MCS5 Worst Case Transfer Rate: **RU Index:** 0 Distance of Measurements: 3 Meters Operating Frequency: 2412MHz Channel:



Plot 7-173. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

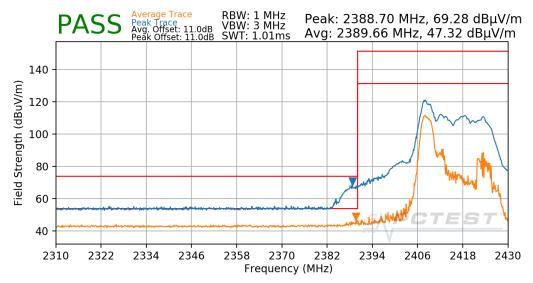
FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS5
0
3 Meters
2417MHz



Plot 7-174. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

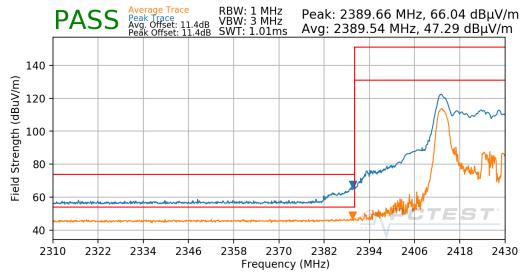
MCS5

0

3 Meters

2422MHz

3



Plot 7-175. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average - RU26)

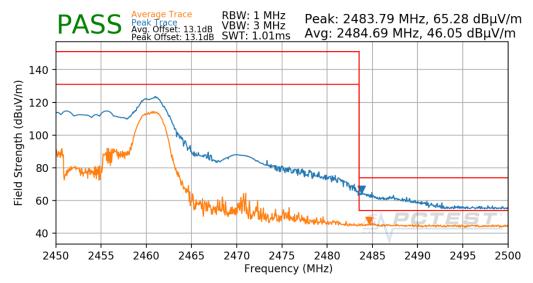
FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS5

8
3 Meters
2452MHz
9



Plot 7-176. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

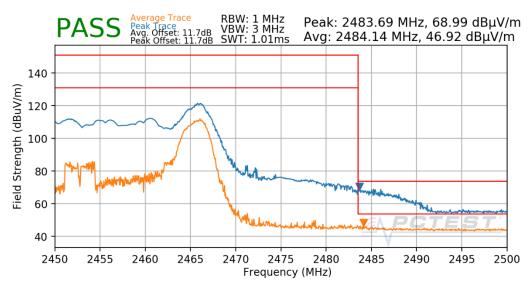
MCS5

8

3 Meters

2457MHz

10



Plot 7-177. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU26)

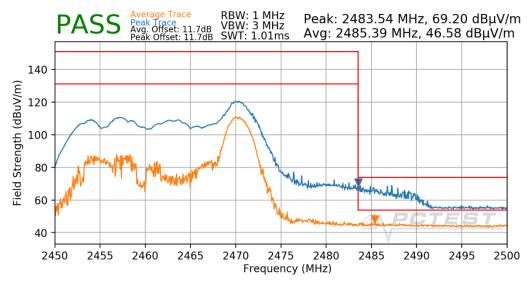
FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS5

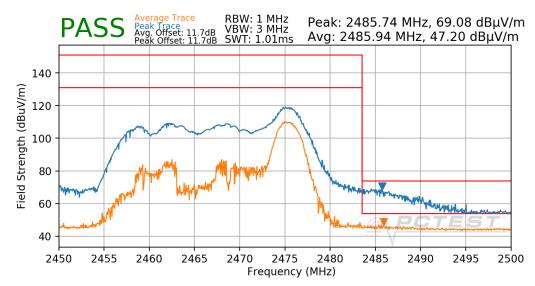
8
3 Meters
2462MHz
11



Plot 7-178. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU26)

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

802.11ax OFDMA
MCS5
8
3 Meters
2467MHz
12



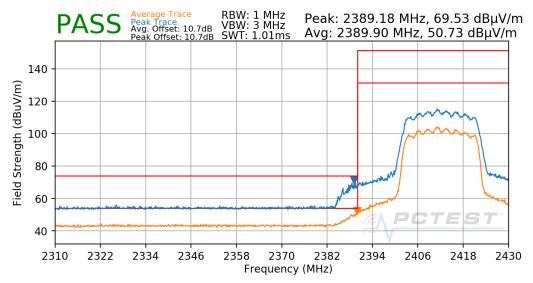
Plot 7-179. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU26)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS5
61
3 Meters
2412MHz
1



Plot 7-180. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

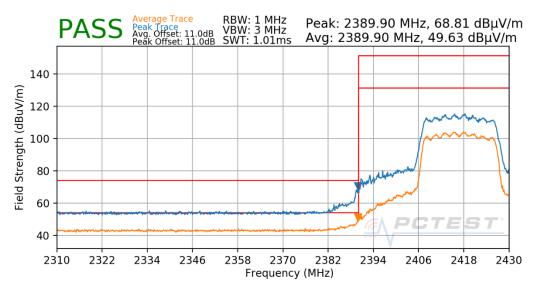
MCS5

61

3 Meters

2417MHz

2



Plot 7-181. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average - RU242)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

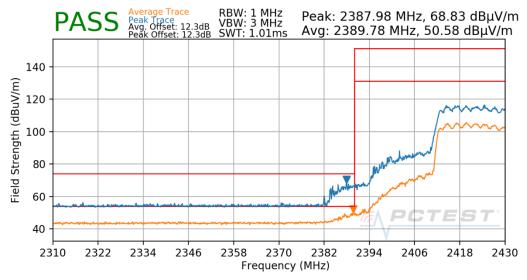
MCS5

61

3 Meters

2422MHz

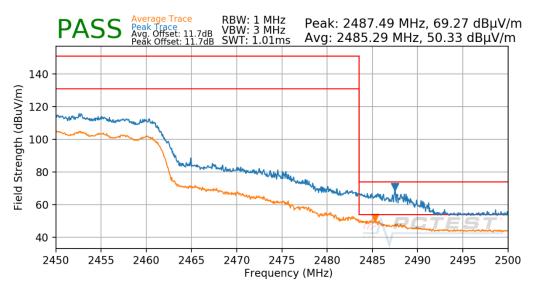
3



Plot 7-182. Radiated Restricted Lower Band Edge Measurement CDD (Peak & Average – RU242)

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

802.11ax OFDMA
MCS5
61
3 Meters
2452MHz
9



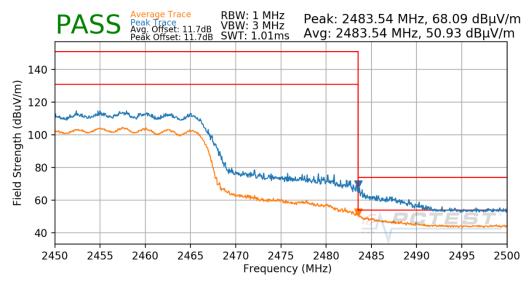
Plot 7-183. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average - RU242)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
RU Index:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax OFDMA
MCS5
61
3 Meters
2457MHz
10



Plot 7-184. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

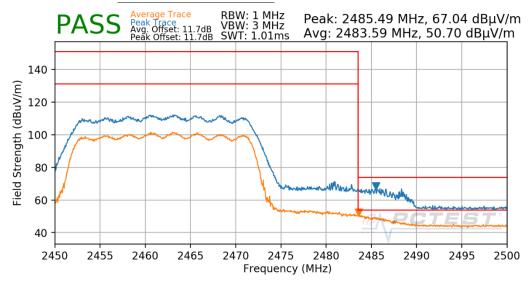
MCS5

61

3 Meters

2462MHz

11



Plot 7-185. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2379 IC: 579C-A2379	PCTEST° Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

RU Index:

Distance of Measurements:

Operating Frequency:

Channel:

802.11ax OFDMA

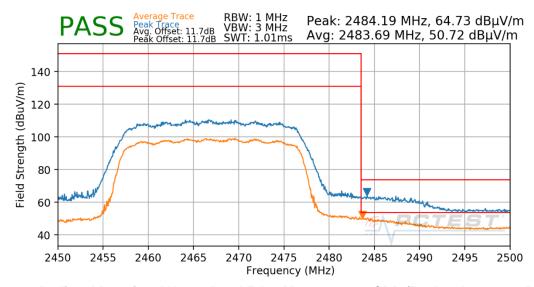
MCS5

61

3 Meters

2467MHz

12



Plot 7-186. Radiated Restricted Upper Band Edge Measurement CDD (Peak & Average – RU242)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## 7.8 Radiated Spurious Emissions – Below 1GHz

§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 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-38 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 7-38. Radiated Limits

## **Test Procedures Used**

ANSI C63.10-2013

#### **Test Settings**

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

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

## **Peak Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = peak
- Sweep time = auto couple
- Trace mode = max hold

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## **Test Setup**

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

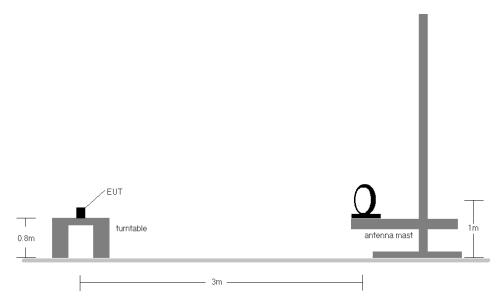


Figure 7-7. Radiated Test Setup < 30Mhz

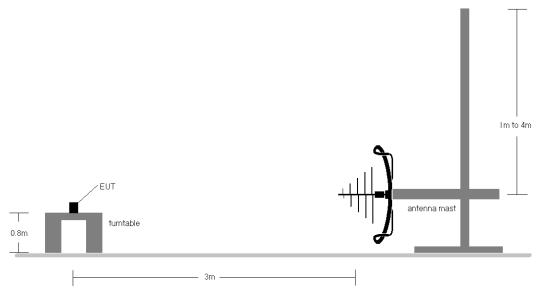


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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 7-38.
- The broadband receive antenna is manipulated through vertical and horizontal polarizations during the
  tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was
  positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst
  case emissions.
- 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 for emissions within 6dB of the limit.
- 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. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
  - b. EUT powered by host PC via USB-C cable with wire charger
- 8. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 9. 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.
- 10. 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.
- 11. All antenna configurations and data rates were investigated and only the worst case are reported.
- 12. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

## Sample Calculations

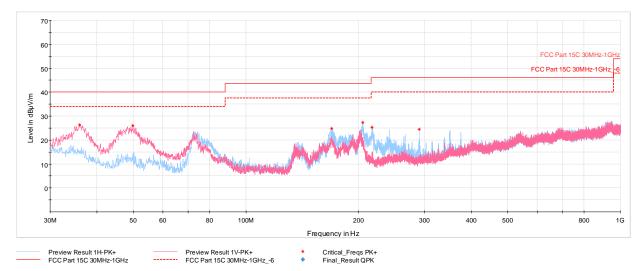
## **Determining Spurious Emissions Levels**

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- O AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamplifier Gain [dB]
- o Margin [dB] = Field Strength Level [dB $\mu$ V/m] Limit [dB $\mu$ V/m]

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## **CDD Radiated Spurious Emissions Measurements (Below 1GHz)** §15.209; RSS-Gen [8.9]



Plot 7-187. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

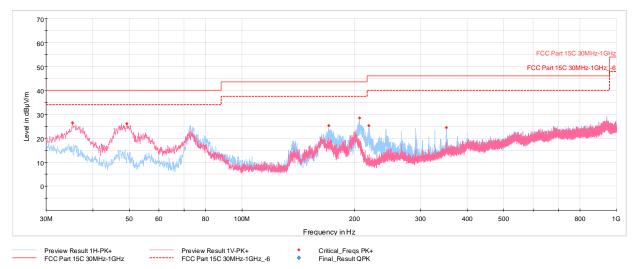
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
35.97	Peak	V	100	358	-65.99	-14.77	26.24	40.00	-13.76
49.89	Peak	V	100	59	-59.89	-21.05	26.06	40.00	-13.94
169.34	Peak	Н	100	261	-64.71	-17.48	24.81	43.52	-18.71
205.23	Peak	Н	100	103	-63.03	-16.65	27.32	43.52	-16.20
217.31	Peak	Н	100	253	-65.19	-16.56	25.25	46.02	-20.77
290.45	Peak	Н	100	302	-67.57	-14.89	24.54	46.02	-21.48

Table 7-39. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU26), with AC/DC Adapter

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Plot 7-188. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), with AC/DC Adapter

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
35.29	Peak	V	100	301	-66.08	-14.44	26.48	40.00	-13.52
49.30	Peak	V	100	328	-59.84	-20.93	26.23	40.00	-13.77
170.55	Peak	Н	100	266	-64.24	-17.42	25.34	43.52	-18.18
206.25	Peak	Н	100	266	-61.96	-16.56	28.48	43.52	-15.04
218.47	Peak	Н	100	289	-65.10	-16.55	25.35	46.02	-20.67
351.85	Peak	Н	100	339	-71.20	-11.34	24.46	46.02	-21.56

Table 7-40. Radiated Spurious Emissions below 1GHz CDD Ch.6 (RU242), with AC/DC Adapter

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## 7.9 AC Line-Conducted Emissions Measurement

§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 AC Line 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 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 7-41. Conducted Limits** 

## **Test Procedures Used**

ANSI C63.10-2013, Section 6.2

## **Test Settings**

#### **Quasi-Peak Measurements**

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

#### Average Measurements

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

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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.

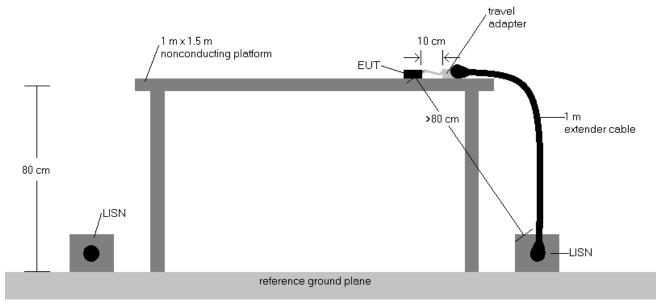


Figure 7-9. Test Instrument & Measurement Setup

## **Test Notes**

- 1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- 2. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
  - b. EUT powered by host PC via USB-C cable with wire charger
- 3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- 4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 5. QP/AV Level (dB $\mu$ V) = QP/AV Analyzer/Receiver Level (dB $\mu$ V) + Correction Factore (dB)
- Margin (dB) = QP/AV Level (dB<sub>μ</sub>V) QP/AV Limit (dB<sub>μ</sub>V)
- 7. Traces shown in plot are made using quasi peak and average detectors.
- 8. Deviations to the Specifications: None.

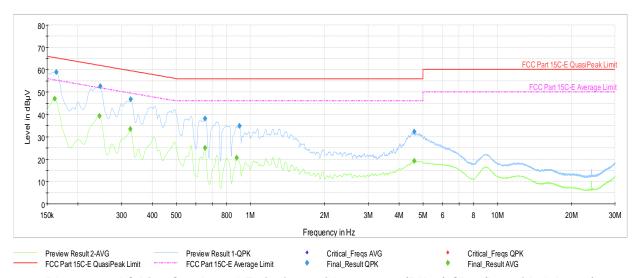
assembly of contents thereof, please contact INFO@PCTEST.COM

9. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's are reported.

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Plot 7-189. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (L1, with Adapter)

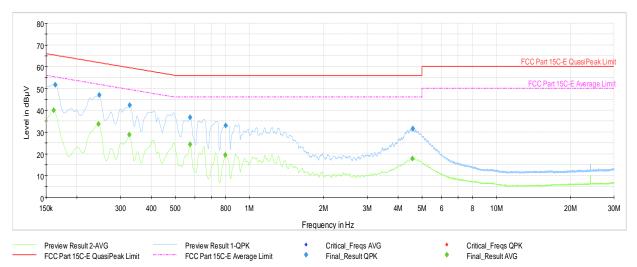
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.161	FINAL	_	47.12	55.40	-8.28	L1	GND
0.164	FINAL	58.9	_	65.28	-6.41	L1	GND
0.245	FINAL	_	39.34	51.94	-12.60	L1	GND
0.247	FINAL	52.7		61.87	-9.17	L1	GND
0.326	FINAL	_	33.43	49.57	-16.14	L1	GND
0.328	FINAL	46.9		59.51	-12.64	L1	GND
0.654	FINAL	_	24.92	46.00	-21.08	L1	GND
0.654	FINAL	38.2	_	56.00	-17.80	L1	GND
0.879	FINAL	_	20.56	46.00	-25.44	L1	GND
0.902	FINAL	34.9	_	56.00	-21.07	L1	GND
4.603	FINAL	32.3		56.00	-23.74	L1	GND
4.603	FINAL	_	19.27	46.00	-26.73	L1	GND

Table 7-42. AC Line Conducted Data with 802.11ax (RU26) Ch.6 (L1, with Adapter)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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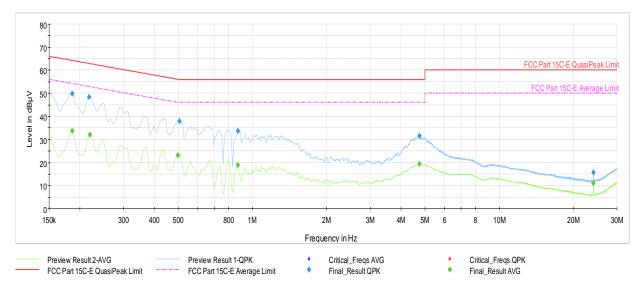
Plot 7-190. AC Line Conducted Emissions with 802.11ax (RU26) Ch.6 (N, with Adapter)

Frequency [MHz]	Process State	QuasiPeak [dB <b>µ</b> V]	Averaqe [dBµV]	Limit [dB <b>µ</b> V]	Marqin [dB]	Line	PE
0.161	FINAL	_	39.96	55.40	-15.44	N	GND
0.164	FINAL	51.8	_	65.28	-13.49	N	GND
0.245	FINAL	_	33.78	51.94	-18.16	N	GND
0.247	FINAL	47.0	_	61.87	-14.84	N	GND
0.326	FINAL	_	28.84	49.57	-20.73	N	GND
0.328	FINAL	42.3	_	59.51	-17.24	N	GND
0.575	FINAL	_	24.43	46.00	-21.57	N	GND
0.575	FINAL	36.6	_	56.00	-19.36	N	GND
0.798	FINAL	_	19.51	46.00	-26.49	N	GND
0.803	FINAL	33.0	_	56.00	-22.99	Ν	GND
4.574	FINAL	_	17.89	46.00	-28.11	N	GND
4.585	FINAL	31.5	_	56.00	-24.49	N	GND

Table 7-43. AC Line Conducted Data with 802.11ax (RU26) Ch.6 (N, with Adapter)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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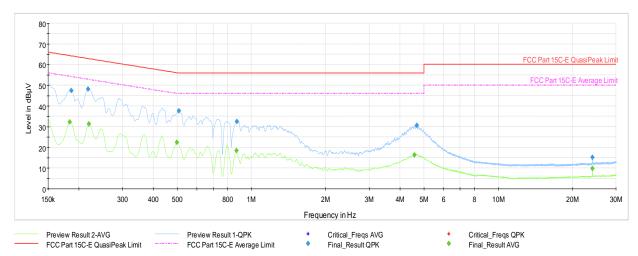
Plot 7-191. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (L1, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dB <b>µ</b> V]	Averaqe [dBµV]	Limit [dBµ√]	Marqin [dB]	Line	PE
0.191	FINAL	52.8	_	64.02	-11.26	L1	GND
0.191	FINAL	_	37.29	54.02	-16.73	L1	GND
0.254	FINAL	41.9	1	61.64	-19.75	L1	GND
0.256	FINAL	_	30.13	51.57	-21.44	L1	GND
0.627	FINAL	34.0		56.00	-21.99	L1	GND
0.629	FINAL	_	27.20	46.00	-18.80	L1	GND
1.253	FINAL	28.1		56.00	-27.86	L1	GND
1.255	FINAL	_	23.12	46.00	-22.88	L1	GND
9.575	FINAL	19.9		60.00	-40.06	L1	GND
9.699	FINAL	_	12.94	50.00	-37.06	L1	GND
21.923	FINAL	_	14.46	50.00	-35.54	L1	GND
22.220	FINAL	20.5		60.00	-39.49	L1	GND

Table 7-44. AC Line Conducted Data with 802.11ax (RU242) Ch.6 (L1, with Laptop)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-192. AC Line Conducted Emissions with 802.11ax (RU242) Ch.6 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dB <b>µ</b> V]	Averaqe [dBµV]	Limit [dB <b>µ</b> V]	Marqin [dB]	Line	PE
0.191	FINAL	52.3	_	64.02	-11.69	N	GND
0.191	FINAL	_	36.33	54.02	-17.69	N	GND
0.254	FINAL	41.1	_	61.64	-20.52	N	GND
0.254	FINAL	_	29.51	51.64	-22.14	N	GND
0.562	FINAL	30.7	_	56.00	-25.35	N	GND
0.564	FINAL	_	23.48	46.00	-22.52	N	GND
1.318	FINAL	_	21.79	46.00	-24.21	N	GND
1.318	FINAL	26.2	_	56.00	-29.76	N	GND
9.362	FINAL	_	11.09	50.00	-38.91	N	GND
9.391	FINAL	19.0	_	60.00	-41.00	Ν	GND
24.493	FINAL	18.1		60.00	-41.89	N	GND
24.988	FINAL	_	12.66	50.00	-37.34	N	GND

Table 7-45. AC Line Conducted Data with 802.11ax (RU242) Ch.6 (N, with Laptop)

FCC ID: BCGA2379 IC: 579C-A2379	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2379, IC: 579C-A2379** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS247 of the Innovation, Science and Economic Development Canada Rules.

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