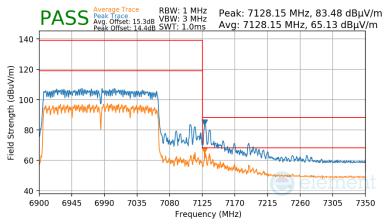


Worst Case Mode:802.11axWorst Case Transfer Rate:MCS11Distance of Measurements:3 MetersOperating Frequency:6985MHChannel:207

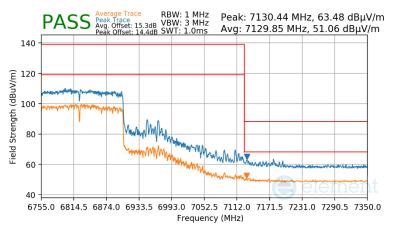
	802.11ax	
	MCS11	
:	3 Meters	
	6985MHz	
	207	



Plot 7-1409. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU996x2)

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

	802.11ax
:	MCS11
S:	3 Meters
	6825MHz
	175



Plot 7-1410. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU996x2)

FCC ID: BCGA2993	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 446 of 464
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7.8 Radiated Spurious Emissions – Below 1GHz §15.209

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 must not exceed the limits shown in Table 7-219 per Section 15.209.

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 7-219. Radiated Limits

Test Procedures Used

ANSI C63.10-2020

Test Settings

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
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

Peak Field Strength Measurements

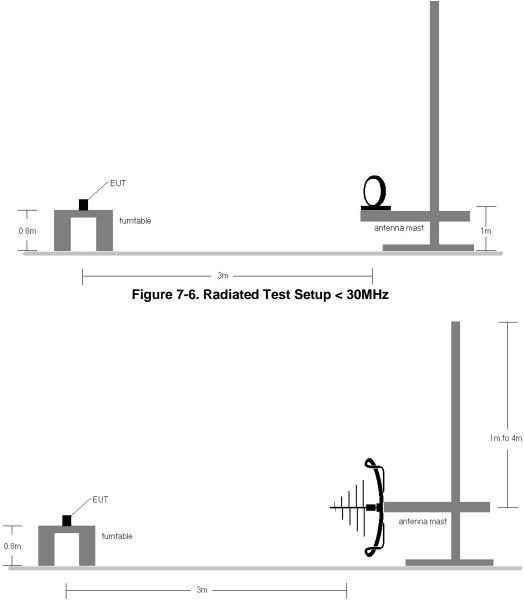
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = quasi-peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

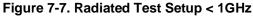
FCC ID: BCGA2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 447 of 464
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Test Setup

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





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Test Report S/N:	Test Dates:	EUT Type:	Daga 449 of 464	
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Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-219.
- 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 on emissions that were 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. 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. 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
- 10. All antenna configurations were investigated and only the worst case is reported.
- 11. The unit was tested with all possible modes and only the highest emission is reported.

Sample Calculations

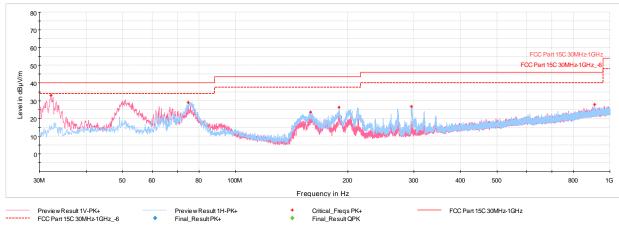
Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamp Gain [dB]
- $\circ \quad \text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} \text{Limit}_{[dB\mu V/m]}$

FCC ID: BCGA2993	element MEASUREMENT REPORT (CERTIFICATION)				Approved by: Technical Manager
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7.8.1 SDM Radiated Spurious Emissions Measurements (Below 1GHz) §15.209



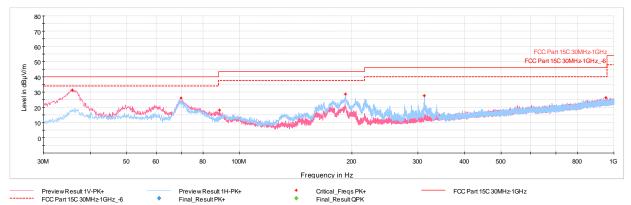
Plot 7-1411. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU26) with AC/DC adaptor via USB-C cable with wire charger

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]
32.183	Max-Peak	V	200	239	-57.96	-15.96	33.08	40.00	-6.92
74.814	Max-Peak	н	300	96	-57.69	-20.25	29.06	40.00	-10.94
159.010	Max-Peak	Н	200	162	-64.33	-19.02	23.65	43.52	-19.87
189.226	Max-Peak	Н	200	341	-63.70	-17.08	26.22	43.52	-17.30
295.392	Max-Peak	Н	100	265	-66.23	-14.03	26.74	46.02	-19.28
911.779	Max-Peak	Н	100	56	-77.30	-1.87	27.83	46.02	-18.19

 Table 7-220. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU26) with AC/DC adaptor via USB-C cable with wire charger

FCC ID: BCGA2993	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 450 of 464
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Plot 7-1412. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU242) with AC/DC adaptor via USB-C cable with wire charger

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]
35.820	Max-Peak	V	100	111	-60.81	-14.98	31.21	40.00	-8.79
69.819	Max-Peak	н	300	49	-62.69	-18.30	26.01	40.00	-13.99
88.540	Max-Peak	V	100	138	-70.43	-18.43	18.14	43.52	-25.38
192.281	Max-Peak	н	100	14	-61.80	-16.57	28.63	43.52	-14.89
312.125	Max-Peak	н	100	89	-65.81	-13.49	27.70	46.02	-18.32
952.373	Max-Peak	V	300	33	-78.98	-1.71	26.31	46.02	-19.71

 Table 7-221. Radiated Spurious Emissions below 1GHz SDM (802.11ax – Ch.1 – RU242) with AC/DC adaptor via USB-C

 cable with wire charger

FCC ID: BCGA2993	element	element MEASUREMENT REPORT (CERTIFICATION)	
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7.9 AC Line-Conducted Emissions Measurement §15.407

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.

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

Table 7-222. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, Section 6.2

Test Settings

Quasi-Peak 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 = 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

FCC ID: BCGA2993	element	element MEASUREMENT REPORT (CERTIFICATION)		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 452 of 464	
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Test Setup

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

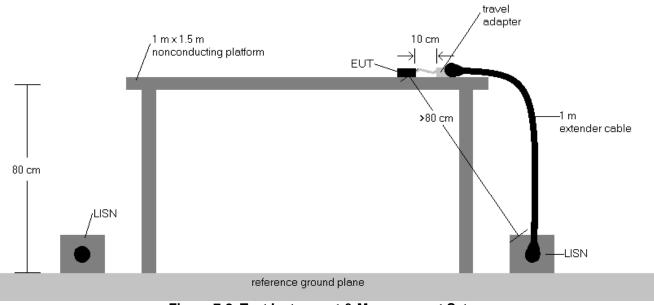


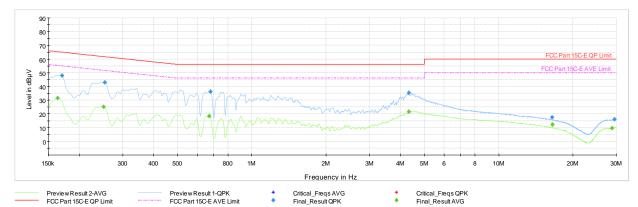
Figure 7-8. Test Instrument & Measurement Setup

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 15.207
- 4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 5. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Correction Factor (dB)
- 6. Margin (dB) = QP/AV Level (dB μ V) QP/AV Limit (dB μ V)
- 7. Traces shown in plots are made using quasi-peak and average detectors.
- 8. Deviations to the Specifications: None.
- 9. The unit was tested with all possible modes and only the highest emission is reported.

FCC ID: BCGA2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 452 of 464
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Plot 7-1413. AC Line Conducted Plot with 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC adaptor via USB-C cable with wire charger

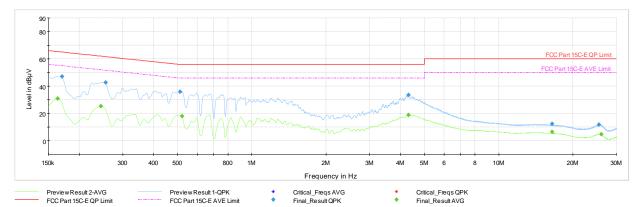
Frequency [MHz]	Process State	QuasiPeak [dBµ∨]	Averaqe [dBµ∨]	Limit [dBµ∨]	Marqin [dB]	Line	PE
0.164	FINAL	—	31.57	55.28	-23.71	L1	GND
0.170	FINAL	47.91	_	64.95	-17.04	L1	GND
0.251	FINAL		25.04	51.72	-26.67	L1	GND
0.254	FINAL	42.99	_	61.64	-18.65	L1	GND
0.672	FINAL		18.22	46.00	-27.78	L1	GND
0.681	FINAL	36.09	_	56.00	-19.91	L1	GND
4.324	FINAL	35.23		56.00	-20.77	L1	GND
4.333	FINAL		21.51	46.00	-24.49	L1	GND
16.483	FINAL	17.49		60.00	-42.51	L1	GND
16.485	FINAL	_	12.17	50.00	-37.83	L1	GND
28.797	FINAL	_	9.49	50.00	-40.51	L1	GND
29.420	FINAL	15.93	—	60.00	-44.07	L1	GND

 Table 7-223. AC Line Conducted Data with 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC adaptor via

 USB-C cable with wire charger

FCC ID: BCGA2993	element	ement MEASUREMENT REPORT (CERTIFICATION)		
Test Report S/N:	Test Dates:	EUT Type:	Dago 454 of 464	
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Plot 7-1414. AC Line Conducted Plot with 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC adaptor via USB-C cable with wire charger

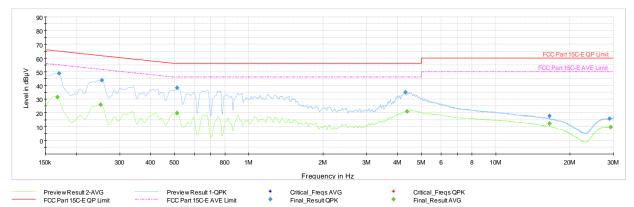
Frequency [MHz]	Process State	QuasiPeak [dBµ∨]	Averaqe [dBµ∨]	Limit [dBµ∨]	Marqin [dB]	Line	PE
0.164	FINAL	—	30.93	55.28	-24.36	N	GND
0.170	FINAL	46.97	_	64.95	-17.98	N	GND
0.245	FINAL	_	25.18	51.94	-26.76	N	GND
0.256	FINAL	42.55	_	61.57	-19.02	N	GND
0.512	FINAL	35.96	_	56.00	-20.04	N	GND
0.521	FINAL	_	17.93	46.00	-28.07	N	GND
4.306	FINAL	33.51	-	56.00	-22.49	N	GND
4.317	FINAL	_	18.83	46.00	-27.17	N	GND
16.478	FINAL	12.43	_	60.00	-47.57	N	GND
16.478	FINAL	_	6.59	50.00	-43.41	N	GND
25.413	FINAL	11.68	—	60.00	-48.32	N	GND
26.077	FINAL	_	4.60	50.00	-45.40	N	GND

 Table 7-224. AC Line Conducted Data with 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC adaptor via

 USB-C cable with wire charger

FCC ID: BCGA2993	element	ement MEASUREMENT REPORT (CERTIFICATION)		
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Plot 7-1415. AC Line Conducted Plot with 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC adaptor via USB-C cable with wire charger

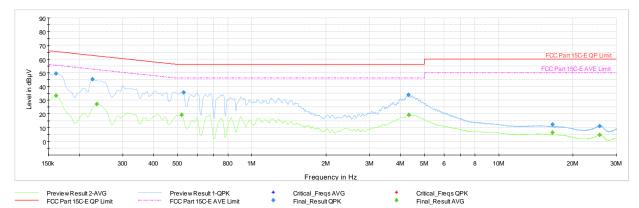
Frequency [MHz]	Process State	QuasiPeak [dBµ∨]	Averaqe [dBµ∨]	Limit [dBµ∨]	Marqin [dB]	Line	PE
0.168	FINAL	_	31.62	55.06	-23.43	L1	GND
0.170	FINAL	48.66	_	64.95	-16.28	L1	GND
0.251	FINAL	_	25.93	51.72	-25.79	L1	GND
0.254	FINAL	43.85	_	61.64	-17.79	L1	GND
0.512	FINAL	_	19.79	46.00	-26.21	L1	GND
0.512	FINAL	38.12	-	56.00	-17.88	L1	GND
4.315	FINAL	35.15	_	56.00	-20.85	L1	GND
4.382	FINAL	_	21.11	46.00	-24.89	L1	GND
16.499	FINAL	17.76	_	60.00	-42.24	L1	GND
16.499	FINAL	—	12.31	50.00	-37.69	L1	GND
28.923	FINAL	15.63	_	60.00	-44.37	L1	GND
29.175	FINAL	—	9.71	50.00	-40.29	L1	GND

 Table 7-225. AC Line Conducted Data with 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC adaptor via

 USB-C cable with wire charger

FCC ID: BCGA2993	element	ment MEASUREMENT REPORT (CERTIFICATION)		
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Plot 7-1416. AC Line Conducted Plot with 11ax UNII Band 5 – RU242 – Ch.1 (N) with AC/DC adaptor via USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµ∨]	Averaqe [dBµ∨]	Limit [dBµ∨]	Marqin [dB]	Line	PE
0.161	FINAL	_	33.16	55.40	-22.24	N	GND
0.161	FINAL	49.47	_	65.40	-15.92	N	GND
0.227	FINAL	45.21	_	62.58	-17.37	N	GND
0.236	FINAL	_	27.01	52.25	-25.24	N	GND
0.519	FINAL	_	19.23	46.00	-26.77	N	GND
0.530	FINAL	35.50	-	56.00	-20.50	N	GND
4.313	FINAL	33.86	_	56.00	-22.14	N	GND
4.333	FINAL		19.32	46.00	-26.68	N	GND
16.496	FINAL	12.12	_	60.00	-47.88	N	GND
16.496	FINAL	_	6.27	50.00	-43.73	N	GND
25.629	FINAL	11.07	_	60.00	-48.93	N	GND
25.634	FINAL	_	4.52	50.00	-45.48	N	GND

 Table 7-226. AC Line Conducted Data with 11ax UNII Band 5 – RU242 – Ch.1 (N) with AC/DC adaptor via

 USB-C cable with wire charger

FCC ID: BCGA2993			Approved by: Technical Manager	
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7.10 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

<u>§15.407</u>

Test Overview and Limits

A client device that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power access point's authorized transmit power. The term "authorized" means the AFC-approved power level for the AP to use on a particular channel.

Test Procedure Used

KDB 987594 D02 v02r01 – Section L ANSI C63.10-2020 – Section 12.4.3.2 Method PM-G ANSI C63.10-2020 – Section 14.4 Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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

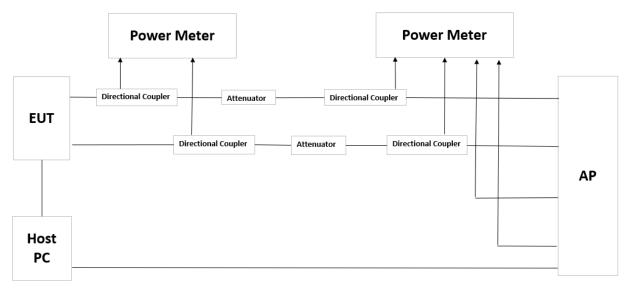


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

- 1. AFC Limit was set to 36, 28 and 21 dBm EIRP.
- 2. Standard Power AP which was used in the test setup is not certified and it's a production version.
- 3. Standard Power AP specification is declared by Apple/manufacturer.

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AFC Authorized Power (36dBm EIRP)

Channel	Frequency	Pov	ver Measured (dE	Bm)	Correlated	Measured	Limit (dBm)	Margin (dB)		
Channet	(MHz)	Antenna WF5T	Antenna WF2	Summed	Gain (dBi)	e.i.r.p (dBm)	сппп (автт)	Margin (ub)		
37	6135	12.45	10.74	14.69	3.20	17.89	30.00	-12.11		
	Table 7-227: EUT measured e.i.r.p (MIMO)									

FCC ID: BCGA2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 450 of 464
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AFC Authorized Power (28dBm EIRP)

Channel Frequency		Power Measured (dBm)			Correlated	Measured	Limit (dBm)	Margin (dB)
Channet	(MHz)	Antenna WF5T	Antenna WF2	Summed	Gain (dBi)	e.i.r.p (dBm)	сппп (автт)	Margin (ub)
37	6135	12.15	10.50	14.41	3.20	17.61	22.00	-4.39
Table 7-228: EUT measured e.i.r.p (MIMO)								

FCC ID: BCGA2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 460 of 464
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AFC Authorized Power (21dBm EIRP)

Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)	Limit (dBm)	Margin (dB)
WF5T	37	6135	10.40	3.20	13.60	15.00	-1.40
WF2	37	6135	9.60	1.60	11.20	15.00	-3.80

Table 7-229: EUT measured e.i.r.p (SISO)

FCC ID: BCGA2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 461 of 464
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7.11 Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

<u>§15.407</u>

Test Overview and Limits

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP. If a client has the flexibility to connect to both APs, verification is needed to show that it can distinguish between the two configurations, and then control the power levels accordingly.

Test Procedure Used

KDB 987594 D02 v02r01 – Section K ANSI C63.10-2020 – Section 12.4.3.2 Method PM-G ANSI C63.10-2020 – Section 14.4 Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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

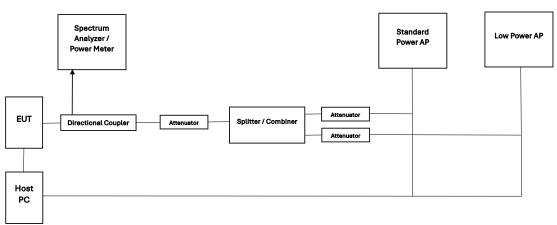


Figure 7-10. Test Instrument & Measurement Setup

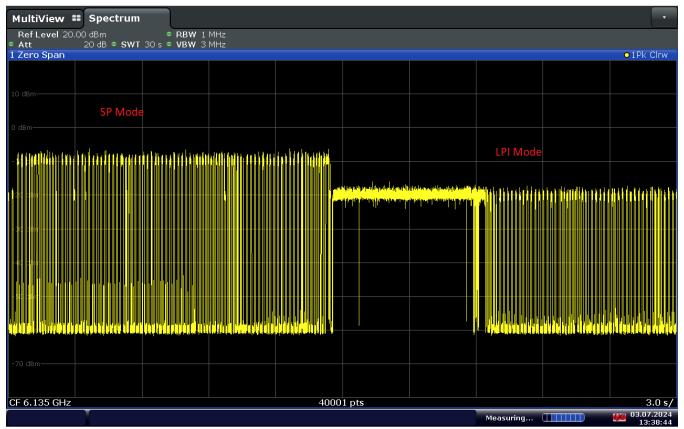
Test Notes

- 1. Standard Power AP was set on highest power setting (36dBm EIRP)
- 2. Standard Power AP and Low Power Indoor AP were configured to transmit on same channel.
- 3. DUT was configured for SISO transmission so Antenna WF2 was measured.

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Element



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Plot 7-1417. Client device observation from Standard Power AP mode to Low Power Indoor AP mode

Channel	Frequency	Mode	Power Measured (dBm)				Correlated	Measured	
Channet	(MHz)	Mode	Ant0	Ant1	Ant2	Ant3	Summed	Gain (dBi)	e.i.r.p
37	6135	TxBF	19.56	19.72	19.49	19.68	25.63	6.02	31.65

Table 7-230: Measured e.i.r.p from Standard Power AP

Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
WF5T	37	6135	12.35	3.2	15.55

Table 7-231: EUT measured e.i.r.p when established with Standard Power AP

Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
WF5T	37	6135	2.33	3.2	5.53

Table 7-232: EUT measured e.i.r.p when established with Low Power Indoor AP

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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: BCGA2993** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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