

Plot 7-71. Radiated Spurious Emissions above 1GHz (802.11b - Ch. 6)

Mode: 802.11b

Data Rate: 11Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz

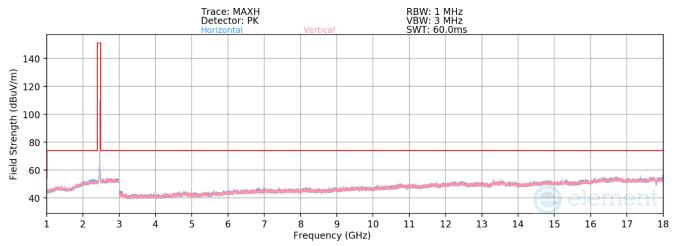
Channel: 06

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]
4874.00	Avg	Н	-	-	-79.13	5.56	33.43	53.98	-20.55
4874.00	Peak	Н	-	-	-67.77	5.56	44.79	73.98	-29.19
7311.00	Avg	Н	-	-	-80.09	8.45	35.36	53.98	-18.62
7311.00	Peak	Н	-	-	-68.04	8.45	47.41	73.98	-26.57
12185.00	Avg	Н	-	-	-81.59	15.18	40.59	53.98	-13.38
12185.00	Peak	Н	-	-	-69.77	15.18	52.41	73.98	-21.56

Table 7-8. Radiated Measurements

FCC ID: BCGA2825 IC: 579C-A2825	element	element MEASUREMENT REPORT (CERTIFICATION)	
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Plot 7-72. Radiated Spurious Emissions above 1GHz (802.11b - Ch. 11)

Mode: 802.11b

Data Rate: 11Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

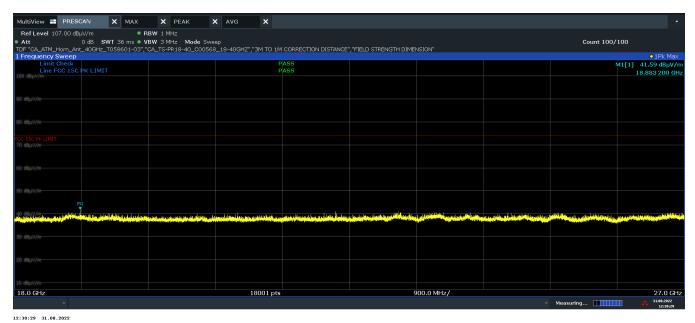
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	Н	-	-	-78.89	4.73	32.84	53.98	-21.14
4924.00	Peak	Н	-	-	-67.42	4.73	44.31	73.98	-29.67
7386.00	Avg	Н	-	-	-80.01	8.56	35.55	53.98	-18.43
7386.00	Peak	Н	-	-	-67.79	8.56	47.77	73.98	-26.21
12310.00	Avg	Н	-	-	-81.74	14.40	39.66	53.98	-14.32
12310.00	Peak	Н	-	-	-70.01	14.40	51.39	73.98	-22.59

Table 7-9. Radiated Measurements

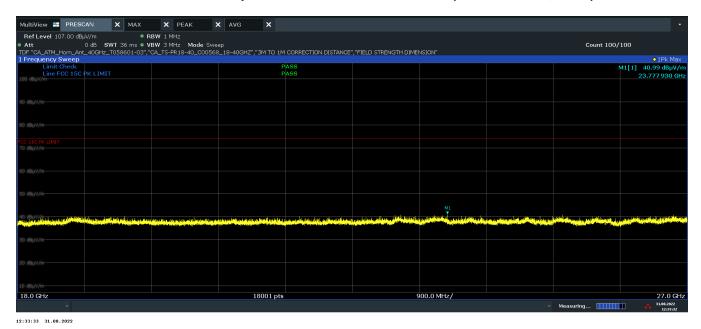
FCC ID: BCGA2825 IC: 579C-A2825	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 65 of 89
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Radiated Spurious Emissions – Above 18 GHz & §15.209; RSS-Gen [8.9]



Plot 7-73. Radiated Spurious Emissions above 18GHz (802.11b - Ch.1, Pol H)



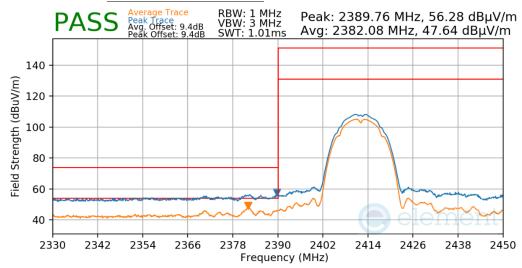
Plot 7-74. Radiated Spurious Emissions above 18GHz (802.11b - Ch.1, Pol V)

FCC ID: BCGA2825 IC: 579C-A2825	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 66 of 89
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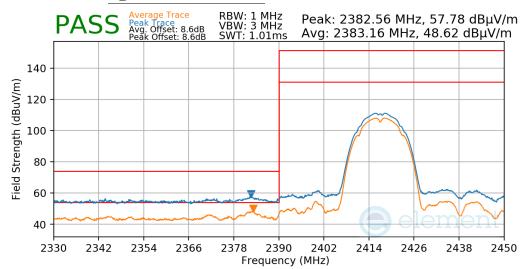
7.7.2 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

Mode:802.11bData Rate:11MbpsDistance of Measurements:3 MetersOperating Frequency:2412MHzChannel:1



Plot 7-75. Radiated Restricted Lower Band Edge Measurement

Mode:802.11bData Rate:11MbpsDistance of Measurements:3 MetersOperating Frequency:2417MHzChannel:2

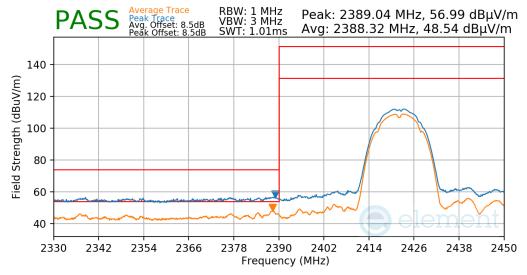


Plot 7-76. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 67 of 89
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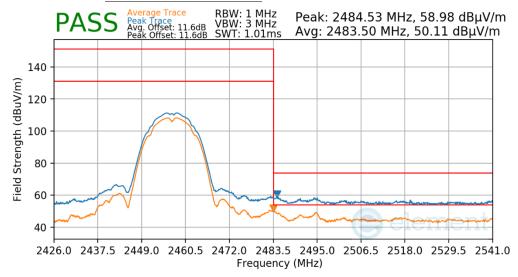


Mode:802.11bData Rate:11MbpsDistance of Measurements:3 MetersOperating Frequency:2422MHzChannel:3



Plot 7-77. Radiated Restricted Lower Band Edge Measurement

Mode:802.11bData Rate:11MbpsDistance of Measurements:3 MetersOperating Frequency:2457MHzChannel:10



Plot 7-78. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 60 of 00
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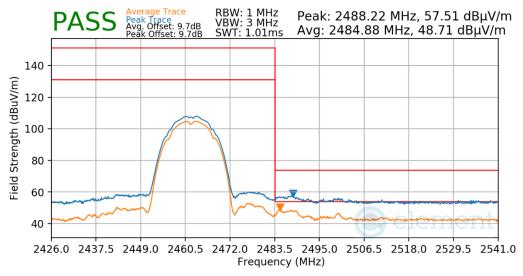
Mode: 802.11b

Data Rate: 11Mbps

Distance of Measurements: 3 Meters

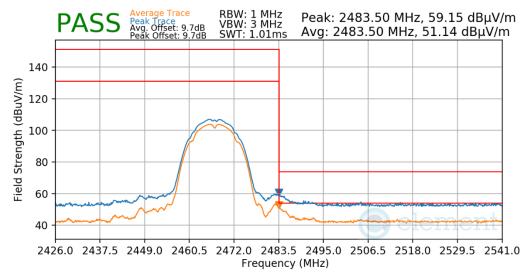
Operating Frequency: 2462MHz

Channel: 11



Plot 7-79. Radiated Restricted Upper Band Edge Measurement

Mode:802.11bData Rate:11MbpsDistance of Measurements:3 MetersOperating Frequency:2467MHzChannel:12

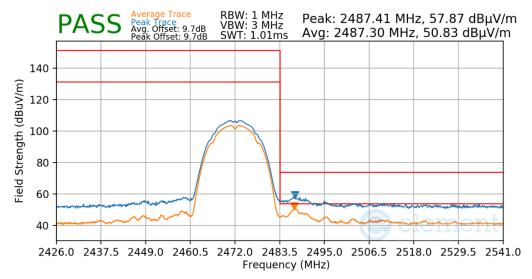


Plot 7-80. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 60 of 00
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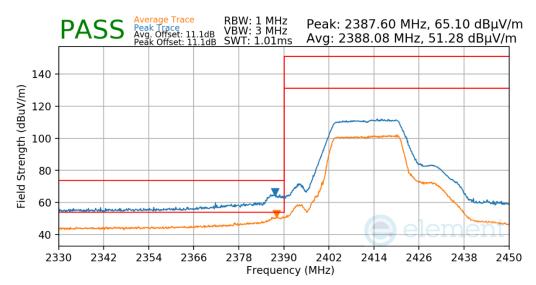


Mode:802.11bData Rate:11MbpsDistance of Measurements:3 MetersOperating Frequency:2472MHzChannel:13



Plot 7-81. Radiated Restricted Upper Band Edge Measurement

Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2412MHzChannel:1

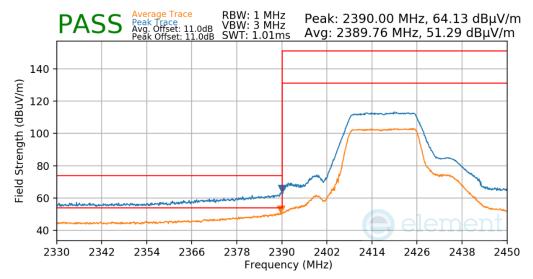


Plot 7-82. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dags 70 of 00
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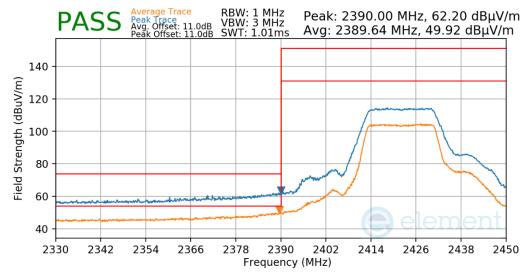


Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2417MHzChannel:2



Plot 7-83. Radiated Restricted Lower Band Edge Measurement

Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2422MHzChannel:3

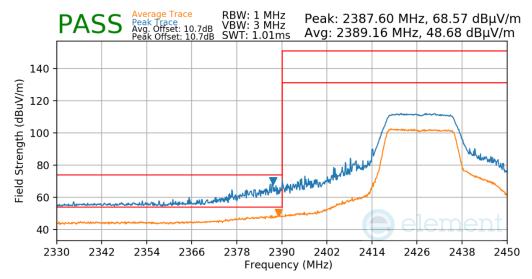


Plot 7-84. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 71 of 00
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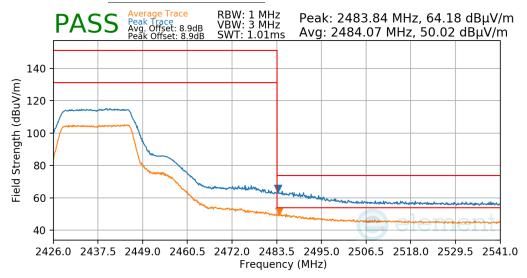


Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2427MHzChannel:4



Plot 7-85. Radiated Restricted Lower Band Edge Measurement

Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2437MHzChannel:6

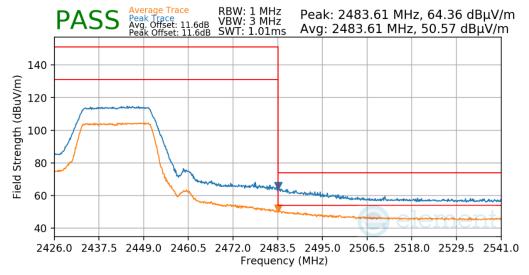


Plot 7-86. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dags 70 of 00
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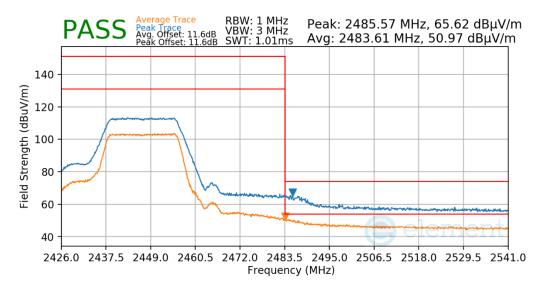


Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2442MHzChannel:7



Plot 7-87. Radiated Restricted Upper Band Edge Measurement

Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2447MHzChannel:8

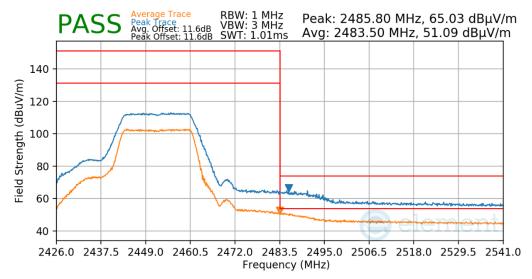


Plot 7-88. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dago 72 of 00
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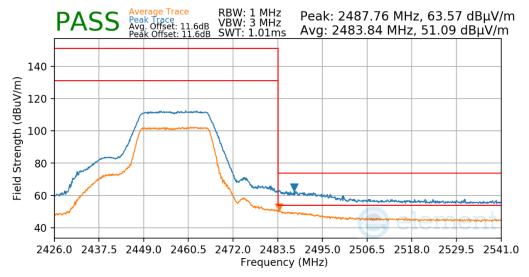


Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2452MHzChannel:9



Plot 7-89. Radiated Restricted Upper Band Edge Measurement

Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2457MHzChannel:10

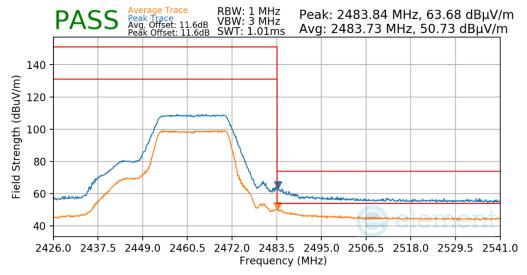


Plot 7-90. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element)	element MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 74 of 00		
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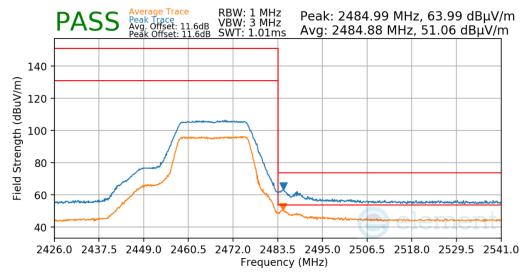


Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2462MHzChannel:11



Plot 7-91. Radiated Restricted Upper Band Edge Measurement

Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2467MHzChannel:12

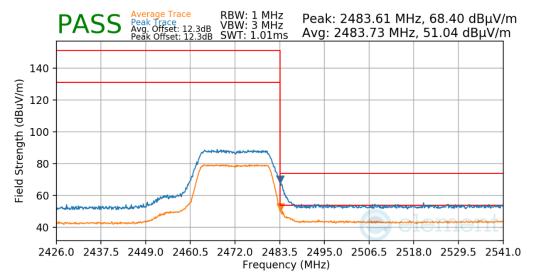


Plot 7-92. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 75 of 90
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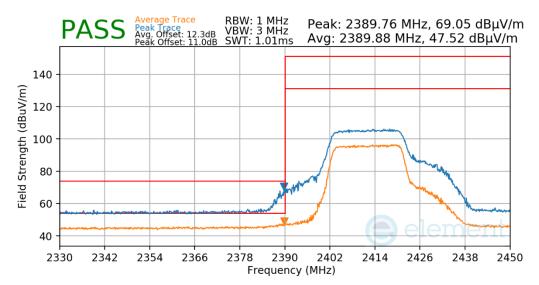


Mode:802.11nData Rate:MCS0Distance of Measurements:3 MetersOperating Frequency:2472MHzChannel:13



Plot 7-93. Radiated Restricted Upper Band Edge Measurement

Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2412MHzChannel:1

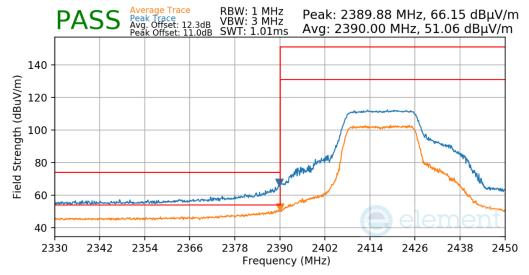


Plot 7-94. Radiated Restricted Lower Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element)	element MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dogg 76 of 00		
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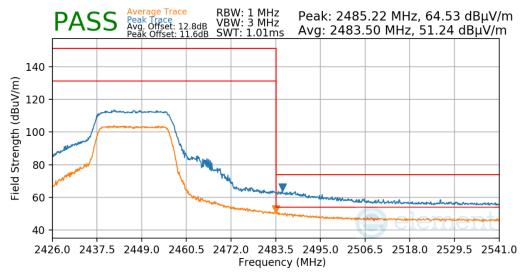


Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2417MHzChannel:2



Plot 7-95. Radiated Restricted Lower Band Edge Measurement

Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2447MHzChannel:8

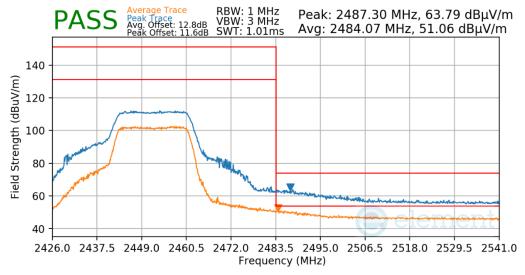


Plot 7-96. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 77 of 90
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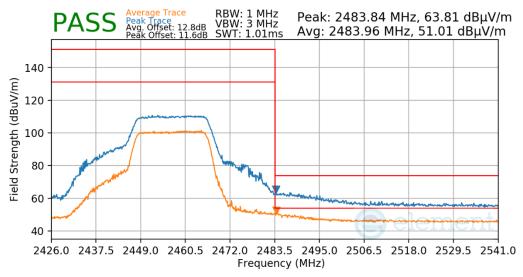


Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2452MHzChannel:9



Plot 7-97. Radiated Restricted Upper Band Edge Measurement

Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2457MHzChannel:10

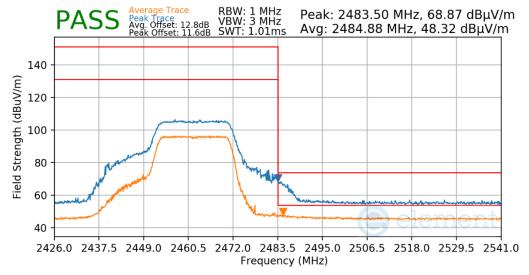


Plot 7-98. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element)	element MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dogg 70 of 00		
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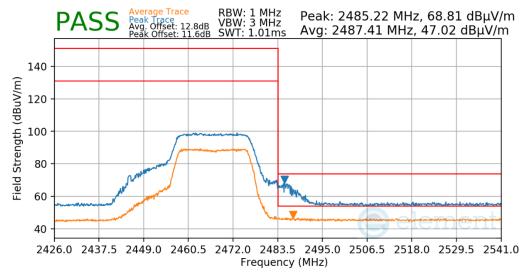


Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2462MHzChannel:11



Plot 7-99. Radiated Restricted Upper Band Edge Measurement

Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2467MHzChannel:12

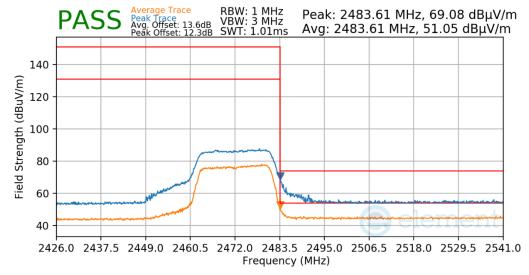


Plot 7-100. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element)	element MEASUREMENT REPORT (CERTIFICATION)			
Test Report S/N:	Test Dates:	EUT Type:	Dags 70 of 00		
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Mode:802.11nData Rate:MCS7Distance of Measurements:3 MetersOperating Frequency:2472MHzChannel:13



Plot 7-101. Radiated Restricted Upper Band Edge Measurement

FCC ID: BCGA2825 IC: 579C-A2825	element)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dags 90 of 90
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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 7-10 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 7-10. 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
- 5. Sweep time = auto couple
- 6. Trace mode = max hold

FCC ID: BCGA2825 IC: 579C-A2825	element	element MEASUREMENT REPORT (CERTIFICATION)		
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Test Setup

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

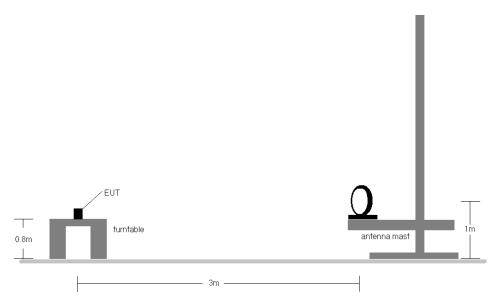


Figure 7-7. Radiated Test Setup < 30Mhz

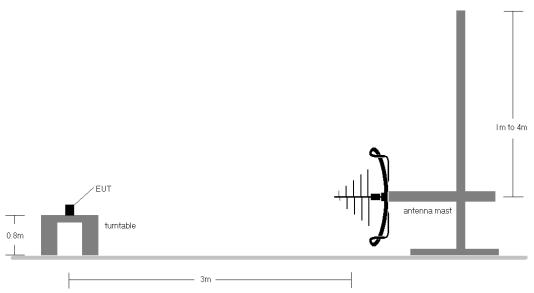


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: BCGA2825 IC: 579C-A2825	element	Approved by: Technical 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 7-10.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through two 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 while powered by an AC power source.
- 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. 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 unit was tested with all possible modes and only the highest emission is reported.

Sample Calculations

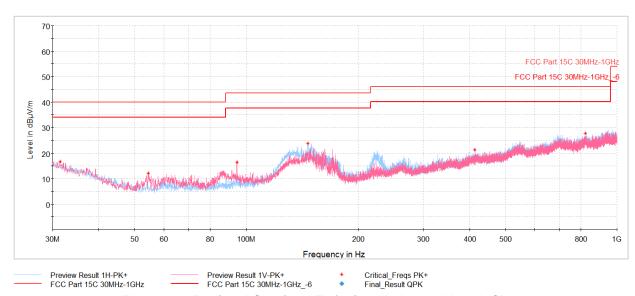
Determining Spurious Emissions Levels

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

FCC ID: BCGA2825 IC: 579C-A2825	element	element MEASUREMENT REPORT (CERTIFICATION)		
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Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-102. Radiated Spurious Emissions below 1GHz 11b Ch.1

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]
31.46	Max Peak	V	200	305	-80.34	-10.02	16.64	40.00	-23.36
54.44	Max Peak	V	100	3	-76.46	-18.32	12.22	40.00	-27.78
94.46	Max Peak	V	100	213	-73.32	-17.24	16.44	43.52	-27.08
146.30	Max Peak	Н	200	202	-69.06	-14.14	23.80	43.52	-19.72
413.73	Max Peak	Н	200	216	-80.67	-5.00	21.33	46.02	-24.69
821.08	Max Peak	Н	100	102	-82.86	3.48	27.62	46.02	-18.40

Table 7-11. Radiated Spurious Emissions below 1GHz 11b Ch.1

FCC ID: BCGA2825 IC: 579C-A2825	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 7-12. Conducted Limits

Test Procedures Used

ANSI C63.10-2013, Subclause 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
- 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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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

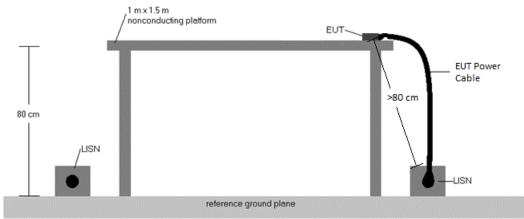


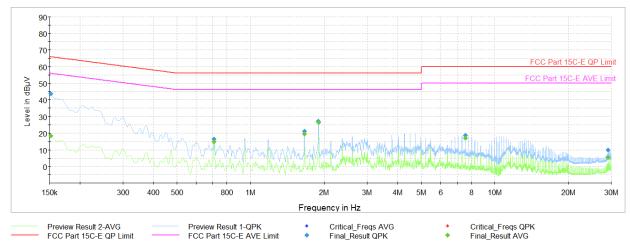
Figure 7-9. Test Instrument & Measurement Setup

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. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
- 5. Margin (dB) = QP/AV Level (dB μ V) QP/AV Limit (dB μ V)
- 6. Traces shown in plot are made using quasi peak and average detectors.
- 7. Deviations to the Specifications: None.
- 8. The unit was tested with all possible modes and only the highest emission is reported.

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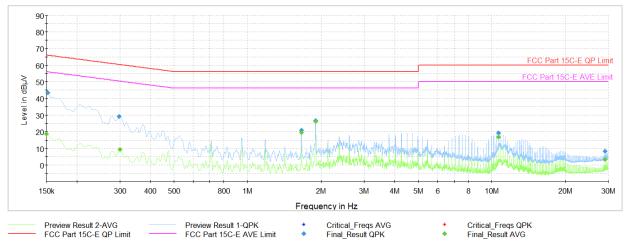
Plot 7-103. AC Line Conducted Plot 11b Ch.1 (L1)

Frequency [MHz]	Process State	QuasiPeak [dB µ V]	Averaqe [dB µ V]	Limit [dB µ V]	Marqin [dB]	Line	PE
0.152	FINAL	_	18.51	55.88	-37.37	L1	GND
0.152	FINAL	43.6	_	65.88	-22.26	L1	GND
0.710	FINAL	_	14.77	46.00	-31.23	L1	GND
0.710	FINAL	16.4	_	56.00	-39.58	L1	GND
1.655	FINAL	_	19.58	46.00	-26.42	L1	GND
1.658	FINAL	21.2	_	56.00	-34.79	L1	GND
1.892	FINAL	27.3	_	56.00	-28.74	L1	GND
1.894	FINAL	_	26.54	46.00	-19.46	L1	GND
7.571	FINAL	18.9	_	60.00	-41.14	L1	GND
7.571	FINAL	_	17.02	50.00	-32.98	L1	GND
29.157	FINAL	_	5.60	50.00	-44.40	L1	GND
29.157	FINAL	9.8		60.00	-50.16	L1	GND

Table 7-13. AC Line Conducted Data 11b Ch.1 (L1)

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Plot 7-104. AC Line Conducted Plot 11b Ch.1 (N)

Frequency [MHz]	Process State	QuasiPeak [dB µ V]	Average [dB µ V]	Limit [dB µ V]	Marqin [dB]	Line	PE
0.150	FINAL	_	18.82	56.00	-37.18	N	GND
0.152	FINAL	43.3	_	65.88	-22.59	N	GND
0.299	FINAL	29.2		60.28	-31.13	N	GND
0.301	FINAL	_	9.28	50.22	-40.95	N	GND
1.658	FINAL	_	19.47	46.00	-26.53	N	GND
1.658	FINAL	21.0	_	56.00	-35.04	N	GND
1.894	FINAL	26.8	_	56.00	-29.17	N	GND
1.894	FINAL	_	26.31	46.00	-19.69	N	GND
10.649	FINAL	19.3	_	60.00	-40.70	N	GND
10.649	FINAL		16.73	50.00	-33.27	N	GND
29.153	FINAL	_	3.19	50.00	-46.81	N	GND
29.153	FINAL	8.1	_	60.00	-51.90	N	GND

Table 7-14. AC Line Conducted Data 11b Ch.1 (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Smart Speaker FCC ID: BCGA2825, IC: 579C-A2825** 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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