



MEASUREMENT REPORT

FCC Part 15C

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

12/15/2020-02/25/2021

Test Site/Location:

PCTEST Lab. Morgan Hill, CA, USA

Test Report Serial No.:

1C2101020005-17.BCG

FCC ID:

BCGA2379

APPLICANT:

Apple Inc.

Application Type:

Certification

Model:

A2379

EUT Type:

Tablet Device

Operating Frequency:

127.77kHz

FCC Classification:

Part 15 Low Power Transmitter Below 1705 kHz (DCD)

FCC Classification:

FCC Part 15, Subpart C (15.207 & 15.209)

Test Procedure(s):

ANSI C63.10-2013, KDB 680106 D01 v03r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



Randy Ortanez
President



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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at PCTEST located in Morgan Hill, CA 95037, U.S.A.

- PCTEST is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISSED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISSED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA2379**. The test data contained in this report pertains only to the emissions due to the wireless power transfer function of the EUT.

Test Device Serial No.: LL2Y7WGWV0

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1/FR2), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), WPT

This device supports BT Beamforming.

This device supports different WPT charging rates.

Charging Rate
10C
3C
2.5C
1C
0.1C

Table 2-1. WPT Charging Rate

2.3 Test Support Equipment

1	Apple MacBook	Model:	A2141	S/N:	C02DV7VKMD6T
	w/AC/DC Adapter	Model:	A2166	S/N:	N/A
2	Apple USB-C Cable	Model:	Chimp	S/N:	420A57
3	USB-C Cable	Model:	A146	S/N:	N/A
	w/ AC/DC Adapter	Model:	A2305	S/N:	N/A
4	Apple Pencil	Model:	N/A	S/N:	GQXYGSXBJKM9

Table 2-2. Test Support Equipment List

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2.4 Test Configuration

The EUT Tablet Device FCC ID: BCGA2379, contains a proprietary wireless power transfer (WPT) module, which uses a magnetic inductive charging system. This feature allows for the Apple Pencil to be wirelessly charged using the tablet device.

All equipment is placed on the test tabletop and arranged in a typical configuration in accordance with ANSI C63.10-2013. For more information, refer to Section 6.0 for test data and the test setup.

All charging rates were investigated and only the worst-case charging rate (10C) was reported in this test report.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst-case emissions were reported in this test report.

For AC line conducted and radiated emissions test, with the Apple Pencil wirelessly charging while attached to Tablet Device, following configuration were investigated and worst case was reported.

- Tablet Device powered by AC/DC adapter via USB-C cable with wire charger.
- Tablet Device powered by host PC via USB-C cable with wire charger.

2.5 Software and Firmware

The test was conducted with firmware version 18E20700y installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 6.4. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014.

Per KDB 414788, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband antenna. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
AC Line Conducted Disturbance	2.75
Radiated Disturbance (<30MHz)	4.06
Radiated Disturbance (30MHz-1GHz)	4.30
Radiated Disturbance (1GHz-18GHz)	4.78

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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	3/4/2020	Annual	3/4/2021	MY49430244
ETS-Lindgren	3142E	BiConiLog Antenna (30MHz - 6GHz)	9/15/2020	Annual	9/15/2021	208204
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/15/2020	Annual	7/15/2021	102356
Rohde & Schwarz	ESW26	EMI Test Receiver	6/1/2020	Annual	6/1/2021	101299
Rohde & Schwarz	HFH2-Z2	Loop Antenna	3/12/2020	Annual	3/12/2021	100546
Rohde & Schwarz	ENV216	Two-Line V-Network (LISN)	12/7/2020	Annual	12/7/2021	101364

Table 5-1. Test Equipment List

Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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6.0 TEST RESULTS

6.1 Summary

Company Name: Apple Inc.
FCC ID: BCGA2379
FCC Classification: Part 15C Low Power Transmitter Below 1705 kHz (DCD)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	Occupied Bandwidth	N/A	RADIATED	N/A	Section 6.2
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.205 & 15.209		PASS	Sections 6.3
15.207	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits	AC LINE CONDUCTED	PASS	Section 6.4

Table 6-1. Summary of Test Results

Notes:

1. All charging rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. For radiated emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST “Chamber Automation,” Version 1.3.1

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6.2 Occupied Bandwidth

§2.1049

Test Overview and Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated, and the worst-case configuration results are reported in this section.

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth.
2. RBW = 100Hz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

Test Setup

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

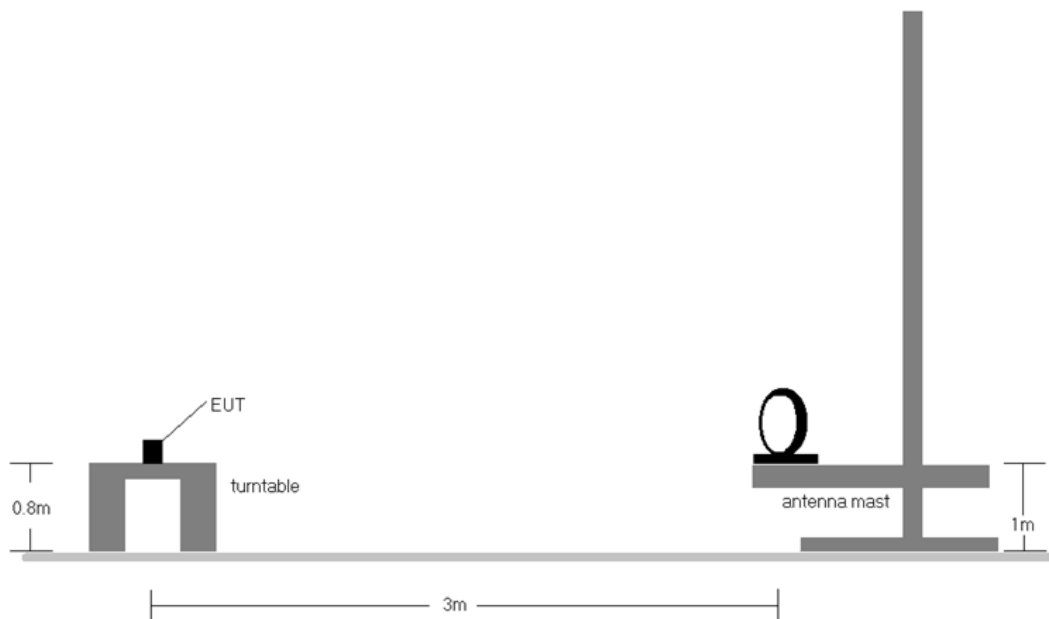


Figure 6-1. Test Setup

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Plot 6-1. Occupied Bandwidth Plot (Charging Rate 10C)

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6.3 Radiated Spurious Emission Measurements

§15.209

Test Overview and Limit

All radiated 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 charging rates were investigated for radiated emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

Frequency [MHz]	Field Strength Limit [$\mu\text{V/m}$]	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
> 960	500	3

Table 6-2. Radiated Emission Limits per 15.209

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

- Analyzer frequency set to the frequency of the radiated spurious emission of interest
- Per the CISPR 16-1-1 standard, the RBW's are as follows:
 - 9kHz – 150kHz (Band A): 200Hz
 - 150kHz – 30MHz (Band B): 9kHz
 - 30MHz – 1GHz (Band C): 120kHz
- Detector = quasi-peak
- Sweep time = auto couple
- Trace mode = max hold
- Trace was allowed to stabilize

Test Setup

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

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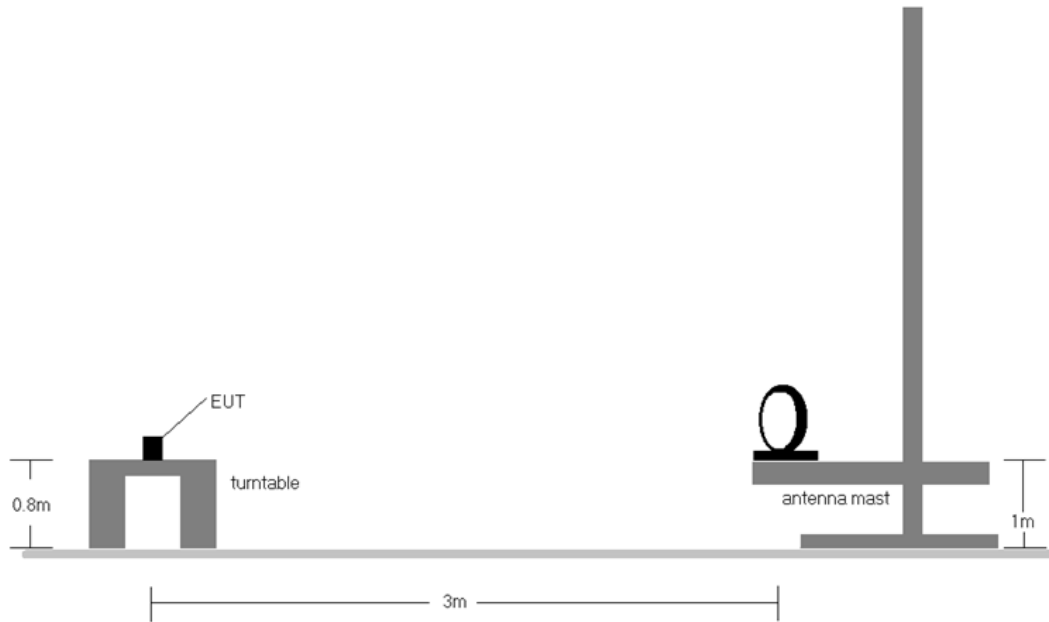


Figure 6-2. Radiated Test Setup < 30MHz

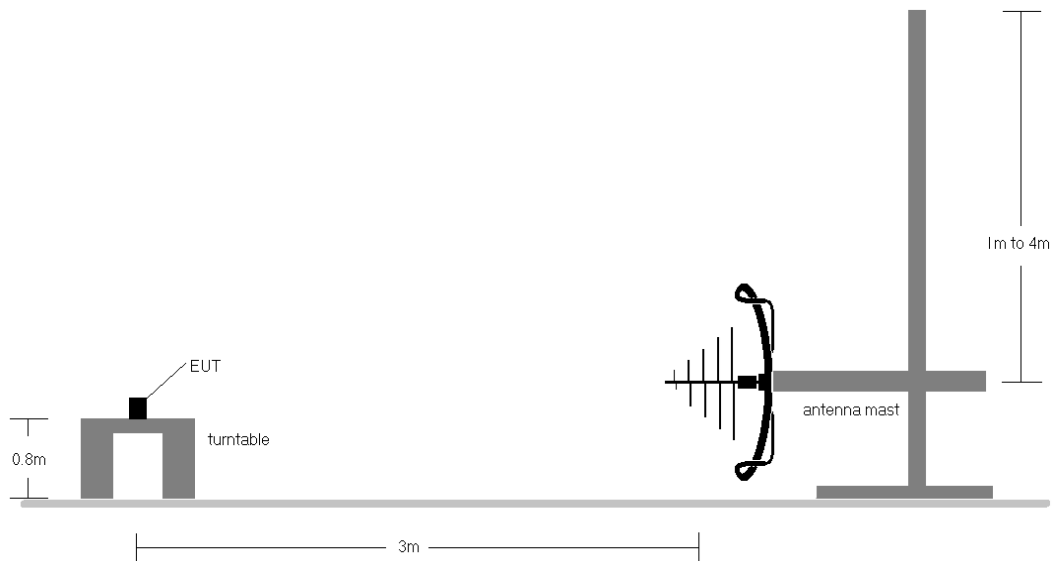


Figure 6-3. Radiated Test Setup < 1GHz

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Test Notes

1. The fundamental emission is denoted by a * next to the frequency in Table 6-3.
2. All modes of operation were investigated, and the worst-case emissions are reported.
3. Radiated emissions were measured from 9kHz –1GHz.
4. The radiated limits for intentional radiators are shown in Table 6-2.
5. Radiated measurements below 30MHz were measured using a loop antenna. The antenna was positioned in three orthogonal planes (X front, Y side, Z top) and the position with the highest emission level is reported.
6. Field strength level in plots has been corrected per the specific test distance defined in §15.209(a).
7. For measurements made below 1GHz, the results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antennas was found to be less than 2:1.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit (after applying the correction factor) are fully investigated and the results are shown in Table 6-3 and Table 6-4.
9. The “-” shown in the tables below are used to denote noise floor measurements.
10. No significant emissions were found in the 90 – 110kHz restricted band.
11. All charging rates were investigated and only the worst case is reported.
12. At frequencies below 30 MHz, measurements were performed at 3m and the data was extrapolated to the specified measurement distance using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2).
 - a. Distance Extrapolation Factor_[dB] = $20 \log_{10}(300/3)^2 = 80\text{dB}$. [For emissions within 9kHz-490kHz]
 - b. Distance Extrapolation Factor_[dB] = $20 \log_{10}(30/3)^2 = 40\text{dB}$. [For emissions within 490kHz-30MHz]

Sample Calculations

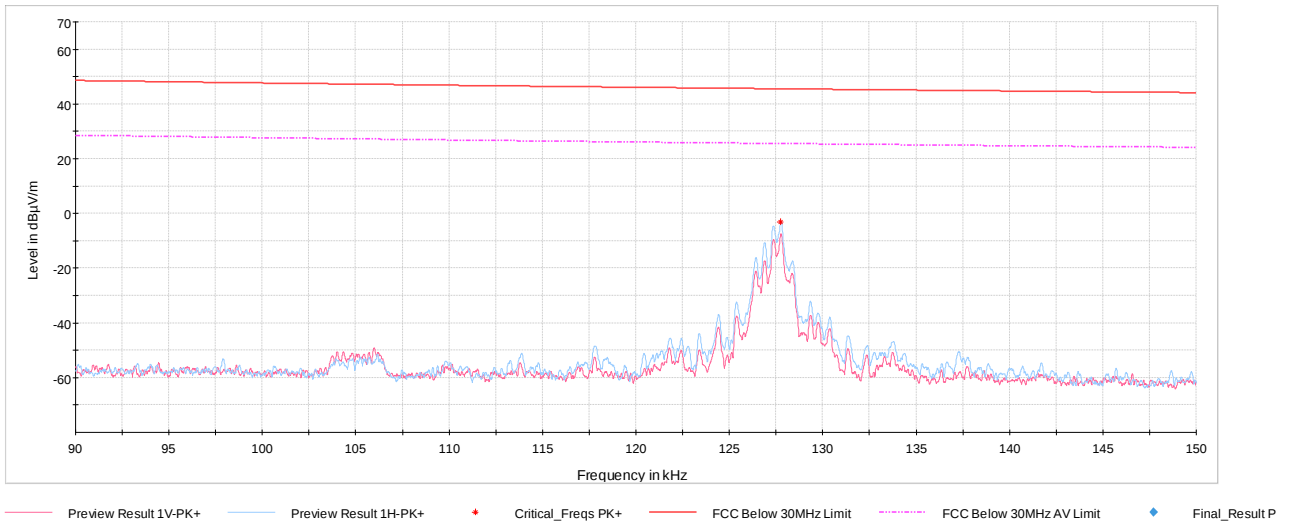
Determining Spurious Emissions Levels

- Field Strength Level_[dBμV/m] = Analyzer Level_[dBm] +107+ AFCL_[dB/m] + Distance Extrapolation Factor_[dB]
- Distance Extrapolation Factor_[dB] will be added only when applicable
- AFCL_[dB/m] = Antenna Factor_[dB/m] + Cable Loss_[dB] + Attenuator_[dB] – Preamplifier Gain_[dB]
- Margin_[dB] = Field Strength Level_[dBμV/m] – Limit_[dBμV/m]

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Radiated Restricted Band Edge Measurements

§15.205

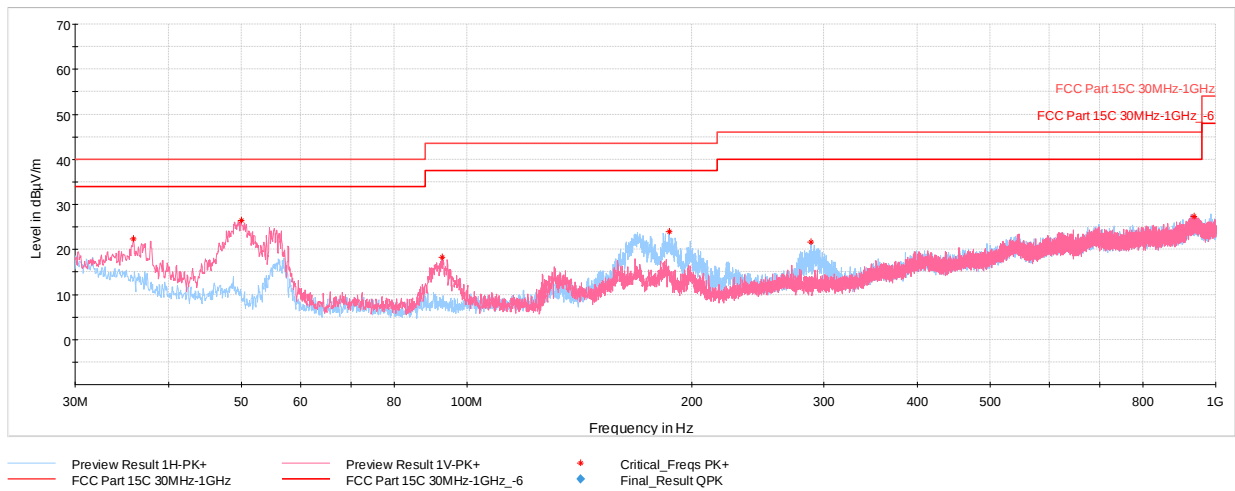
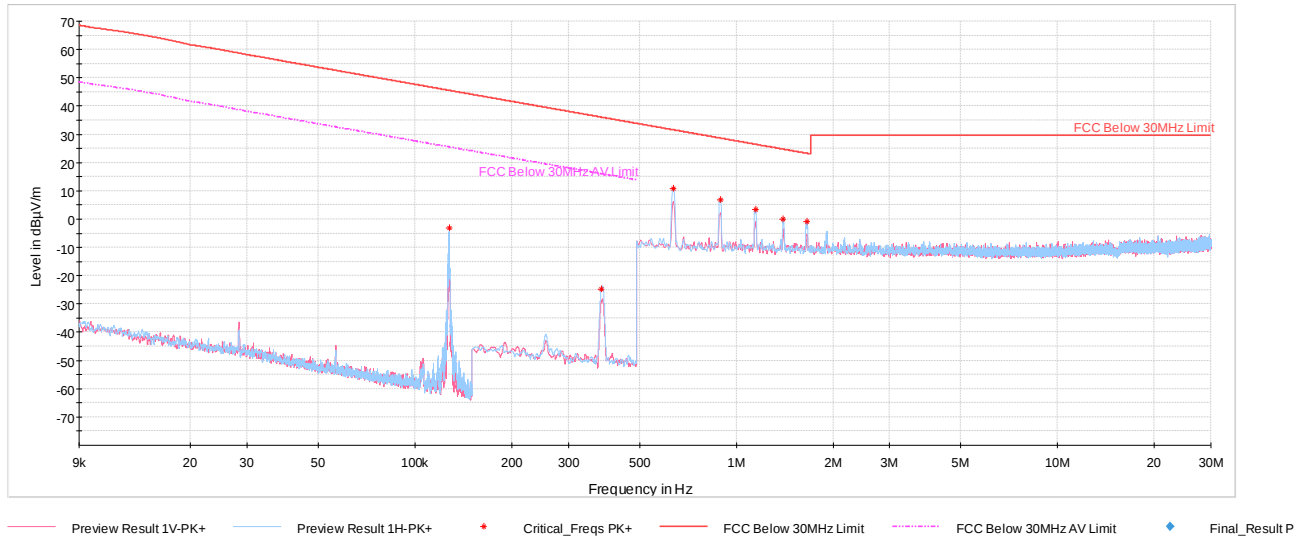


Plot 6-2. Radiated Restricted Lower Band Edge Peak Measurement (Charging Rate 10C)

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Radiated Spurious Emissions Measurements

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Radiated Spurious Emissions Measurements

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Frequency [MHz]	Detector	Ant. Pol. [X/Y/Z]	Antenna Height [cm]	Turntable Azimuth [degree]	Level [dBm]	AFCL [dB/m]	Field Strength @3m [dBμV/m]	Field Strength @30m [dBμV/m]	Limit @30m [dBμV/m]	Field Strength @300m [dBμV/m]	Limit @300m [dBμV/m]	Margin [dB]
0.128*	Peak	X	100	18	-49.17	19.11	76.94	-	-	-3.06	45.48	-48.54
0.380	Peak	X	100	26	-70.82	19.17	55.35	-	-	-24.65	36.02	-60.67
0.638	Peak	X	100	15	-75.59	19.47	50.88	10.88	31.51	-	-	-20.63
0.894	Peak	X	100	45	-79.96	19.67	46.71	6.71	28.57	-	-	-21.86
1.148	Peak	X	100	15	-83.59	19.92	43.33	3.33	26.40	-	-	-23.07
1.396	Peak	X	100	29	-86.93	19.99	40.06	0.06	24.71	-	-	-24.65
1.662	Peak	X	100	35	-87.88	20.05	39.17	-0.83	23.19	-	-	-24.02

Table 6-3. Radiated Measurement at 3m distance, 9kHz-30MHz

* WPT fundamental TX

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
35.87	Peak	V	100	0	-69.95	-14.73	22.32	40.00	-17.68
49.98	Peak	V	100	332	-59.54	-21.07	26.39	40.00	-13.61
92.81	Peak	V	100	248	-68.25	-20.47	18.28	43.52	-25.24
186.41	Peak	H	100	193	-65.63	-17.47	23.90	43.52	-19.62
287.88	Peak	H	100	125	-70.40	-15.04	21.56	46.02	-24.46
934.96	Peak	H	100	239	-79.64	0.05	27.41	46.02	-18.61

Table 6-4. Radiated Measurement at 3m distance, 30MHz-1GHz

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6.4 AC Line-Conducted Emissions Measurements

§15.207

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 6-5. Conducted Limits

*Decreases with the logarithm of the frequency.

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
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

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Test Setup

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

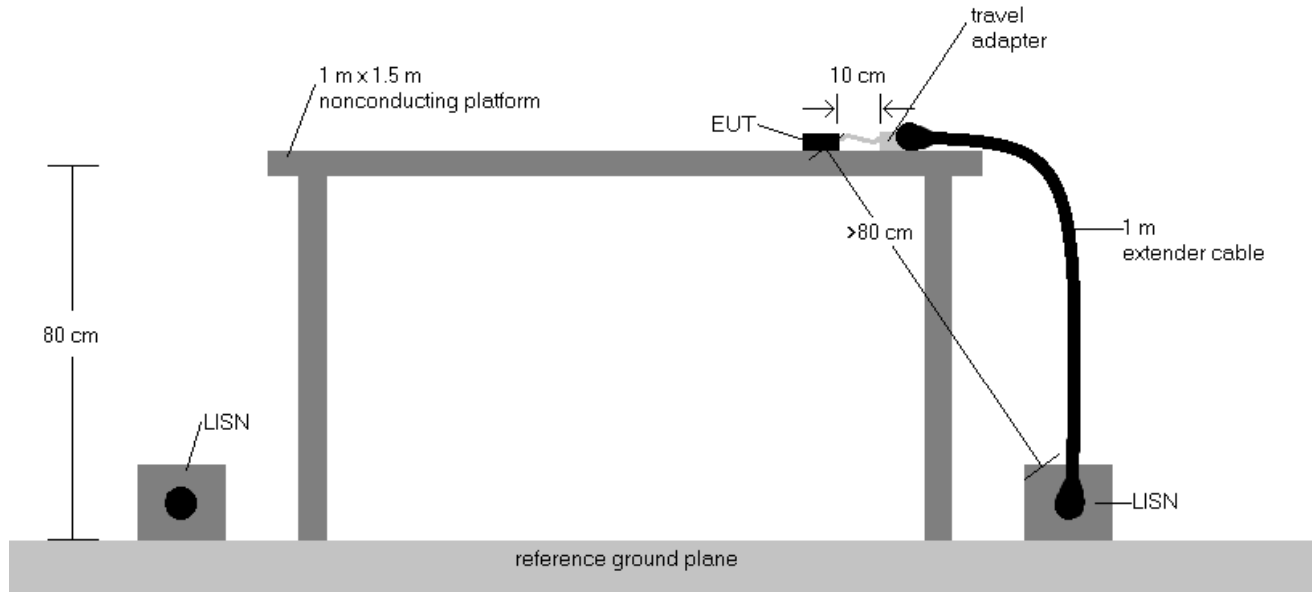
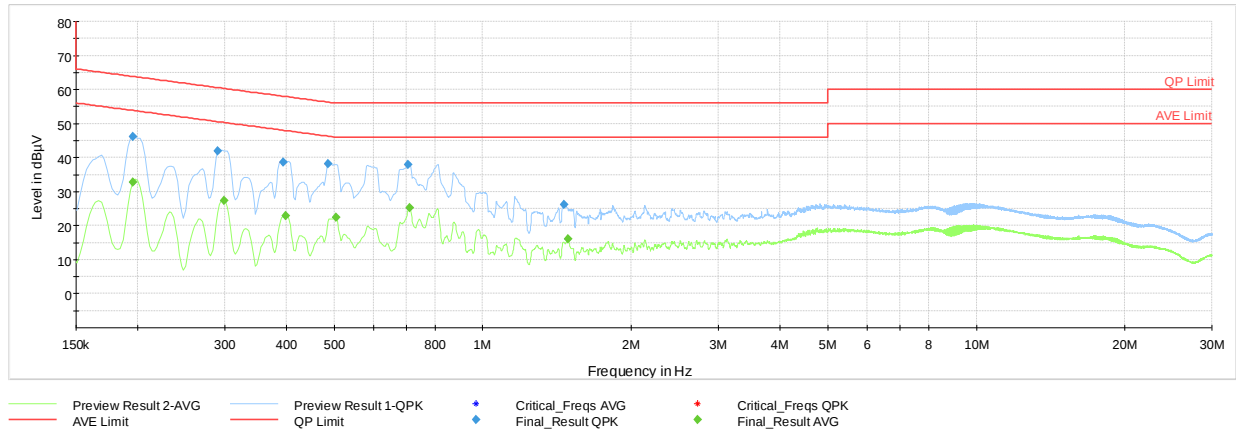


Figure 6-4. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated, and the worst-case emissions are reported.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. Tablet Device powered by AC/DC adapter via USB-C cable with wire charger
 - b. Tablet Device 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.
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plots were measured with a quasi-peak and average detectors.
8. Deviations to the Specifications: None.

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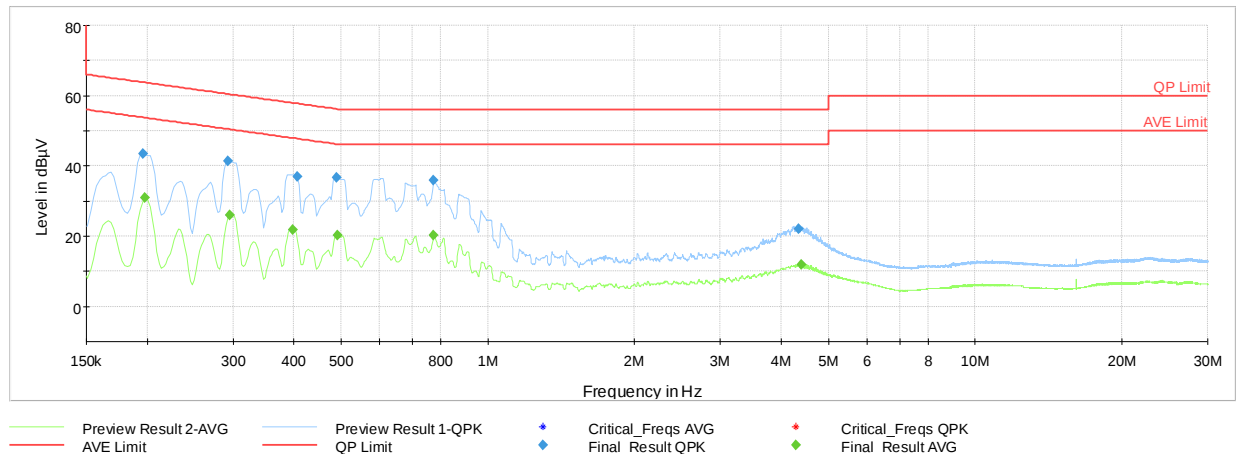


Plot 6-5. AC Line Conducted Plot (L1, Charging Rate 10C, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.196	FINAL	—	32.85	54.69	-21.84	L1	GND
0.196	FINAL	46.06	—	64.69	-18.63	L1	GND
0.290	FINAL	42.01	—	62.00	-19.99	L1	GND
0.299	FINAL	—	27.27	51.74	-24.47	L1	GND
0.394	FINAL	38.71	—	59.03	-20.32	L1	GND
0.398	FINAL	—	22.80	48.91	-26.11	L1	GND
0.486	FINAL	38.21	—	56.40	-18.19	L1	GND
0.504	FINAL	—	22.44	45.89	-23.45	L1	GND
0.707	FINAL	37.93	—	56.00	18.07	L1	GND
0.711	FINAL	—	25.21	46.00	20.79	L1	GND
1.463	FINAL	26.15	—	56.00	29.85	L1	GND
1.487	FINAL	—	16.11	46.00	29.89	L1	GND

Table 6-6. AC Line Conducted Measurements (L1, Charging Rate 10C, with AC/DC Adapter)

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Plot 6-6. AC Line Conducted Plot (N, Charging Rate 10C, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.196	FINAL	43.36	—	64.69	-21.33	N	GND
0.198	FINAL	—	30.89	54.63	-23.74	N	GND
0.293	FINAL	41.28	—	61.91	-20.63	N	GND
0.295	FINAL	—	26.10	51.86	-25.76	N	GND
0.398	FINAL	—	21.79	48.91	-27.12	N	GND
0.407	FINAL	36.97	—	58.66	-21.69	N	GND
0.488	FINAL	36.81	—	56.34	-19.53	N	GND
0.491	FINAL	—	20.17	46.26	-26.09	N	GND
0.774	FINAL	35.92	—	56.00	20.08	N	GND
0.774	FINAL	—	20.15	46.00	25.85	N	GND
4.334	FINAL	22.06	—	56.00	33.94	N	GND
4.390	FINAL	—	11.85	46.00	34.15	N	GND

Table 6-7. AC Line Conducted Measurements (N, Charging Rate 10C, with AC/DC Adapter)

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7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA2379** is in compliance with Part 15 Subpart C (15.205,15.207 & 15.209) of the FCC Rules.

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