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Report No.: 1606RSU02103 Report Version: Issue Date: 08-09-2016

MEASUREMENT REPORT

FCC PART 15.247 Bluetooth v4.0

FCC ID: XR3-MAX

APPLICANT: ONYX INTERNATIONAL INC.

Certification **Application Type:**

Product: E-reader

Model No.: Max, Max Carta, Max Carta Plus, Max Pro

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15.247

Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v03r05

June 17 ~ July 13, 2016 **Test Date:**

(Robin Wu) Reviewed By

Approved By

(Marlin Chen)





The test results relate only to the samples tested.

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 KDB 558074 D01v03r05. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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Revision History

Report No.	Version	Description	Issue Date
1606RSU02103	Rev. 01	Initial report	08-05-2016
1606RSU02103	Rev. 02	Added serial number	08-09-2016

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8.



§2.1033 General Information

Applicant:	ONYX INTERNATIONAL INC.				
Applicant Address:	Room 102, 3rd Floor, No. 38 HongLou Road, LiWan District,				
	GuangZhou, China				
Manufacturer:	ONYX INTERNATIONAL INC.				
Manufacturer Address:	Room 102, 3rd Floor, No. 38 HongLou Road, LiWan District,				
	GuangZhou, China				
Test Site:	MRT Technology (Suzhou) Co., Ltd				
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong				
	Economic Development Zone, Suzhou, China				
MRT Registration No.:	809388				
FCC Rule Part(s):	Part 15.247				
Model No.:	Max, Max Carta, Max Carta Plus, Max Pro				
FCC ID:	XR3-MAX				
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering				
FCC Classification:	Digital Transmission System (DTS)				

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



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1. 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 Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



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2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name E-reader		
Model No.	Max, Max Carta, Max Carta Plus, Max Pro	
Wi-Fi Specification	802.11b/g/n-HT20	
Bluetooth Version	v3.0 + HS, v4.0	
Components		
Adapter	M/N: HKC0055010-2D	
	INPUT: 100-240V ~ 50/60Hz, 0.2A	
	OUTPUT: 5Vdc, 1.0A	

2.2. Product Specification Subjective to this Report

Bluetooth Frequency	2402~2480MHz
Bluetooth Version	v4.0
Type of modulation	FHSS
Data Rate	1Mbps(GFSK)
Antenna Type	PIFA Antenna
Antenna Gain	2.0dBi

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2.3. Working Frequencies for this Report

Channel List for BLE

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz				

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2.4. Device Capabilities

This device contains the following capabilities: 802.11b/g/n WLAN (DTS), Bluetooth (v3.0 + HS, v4.0)

2.5. Test Configuration

The **E-reader FCC ID: XR3-MAX** was tested per the guidance of KDB 558074 D01v03r05. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.6. EMI Suppression Device(s)/Modifications

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

2.7. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

2.8. Test Software

The test utility software used during testing was engineering directive ordered by applicant.

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3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v03r05 were used in the measurement of the **E-reader FCC ID: XR3-MAX.**

Deviation from measurement procedure......None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m 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, $50\Omega/50$ uH 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. 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. 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 ground-plane. 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 receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were 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.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.8.

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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. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the Antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. 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(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn Antennas were used. 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 for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 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, clock speed, mode of operation or video resolution, if applicable, 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 and horn Antennas. 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. According to 3dB Beam-Width of horn Antenna, the horn Antenna should be always directed to the EUT when rising height.

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4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the E-reader is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The **E-reader FCC ID: XR3-MAX** unit complies with the requirement of §15.203.

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5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	101683	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	101684	1 year	2016/11/03
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06182	1 year	2016/12/20

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Agilent	N9010A	MY51440195	1 year	2017/06/23
EMI Test Receiver	R&S	ESR7	101209	1 year	2016/11/03
Preamplifier	Schwarzbeck	BBV 9721	9721-008	1 year	2017/04/15
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	302	1 year	2016/12/11
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	1 year	2016/12/14
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	1 year	2016/11/07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	1 year	2016/11/07
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	1 year	2017/01/04
Digital Thermometer & Hygrometer	Minggao	N/A	MRTSUE06170	1 year	2016/11/30

Conducted Test Equipment – TR3

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	32176	1 year	2017/05/08
USB Wideband Power Sensor	Boonton	55006	117129	1 year	2017/05/08
Temperature/Humidity Meter	Yuhuaze	HTC-2	25680303WS	1 year	2016/12/20

Software	Version	Function	
e3	V8.3.5	EMI Test Software	

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6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement - SR2

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

150kHz~30MHz: 3.46dB

Radiated Emission Measurement - AC2

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz ~ 1GHz: 4.18dB 1GHz ~ 25GHz: 4.76dB

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7. TEST RESULT

7.1. Summary

Company Name: ONYX INTERNATIONAL INC.

FCC ID: XR3-MAX

FCC Classification: <u>Digital Transmission System (DTS)</u>

Data Rate(s) Tested: 1Mbps(GFSK) (BLE)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz	Conducted	Pass	Section 7.2
15.247(b)(3)	Output Power	≤ 1Watt		Pass	Section 7.3
15.247(e)	Power Spectral Density	≤ 8dBm / 3kHz		Pass	Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	≥ 20dBc(Peak)		Pass	Section 7.5
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 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

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7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

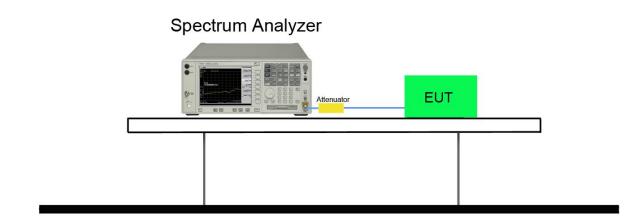
7.2.2. Test Procedure used

KDB 558074 D01v03r05 - Section 8.2 Option 2

7.2.3. Test Setting

- The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. Set RBW = 100 kHz
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. Allow the trace was allowed to stabilize

7.2.4. Test Setup

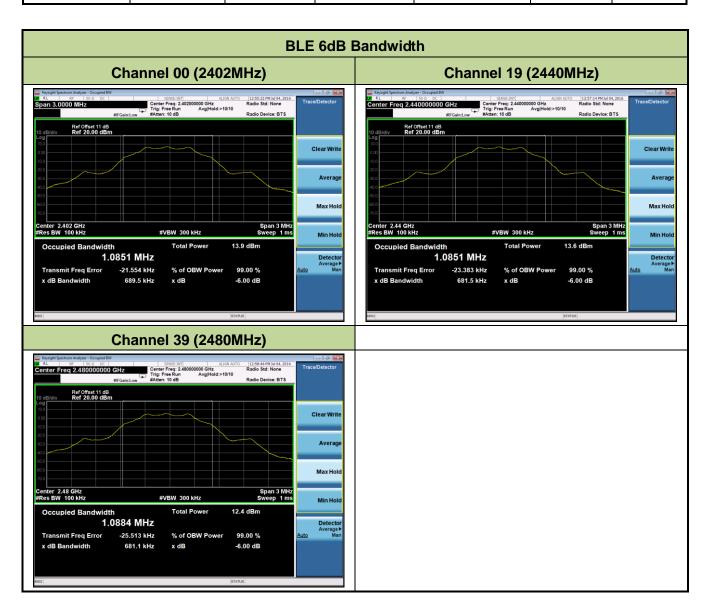


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7.2.5. Test Result

	Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ī	BLE	1	00	2402	0.690	≥ 0.5	Pass
	BLE	1	19	2440	0.682	≥ 0.5	Pass
Ī	BLE	1	39	2480	0.681	≥ 0.5	Pass



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7.3. Output Power Measurement

7.3.1. Test Limit

The maximum out power shall be less 1 Watt (30dBm).

7.3.2. Test Procedure Used

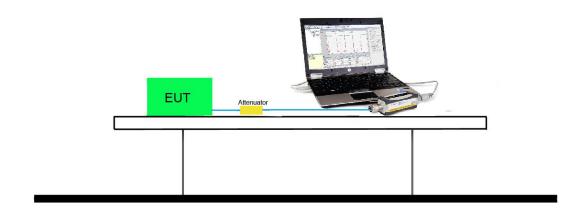
KDB 558074 D01v03r05 - Section 9.1.2 PKPM1 - Peak Power Method

7.3.3. Test Setting

Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

Peak 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 pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

7.3.4. Test Setup



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7.3.5. Test Result of Output Power

Test Result of Peak Output Power

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1	00	2402	5.84	≤ 30	Pass
BLE	1	19	2440	5.52	≤ 30	Pass
BLE	1	39	2480	4.43	≤ 30	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency	Average	Limit	Result
	(Mbps)		(MHz)	Power (dBm)	(dBm)	
BLE	1	00	2402	5.35	≤ 30	Pass
BLE	1	19	2440	4.99	≤ 30	Pass
BLE	1	39	2480	3.88	≤ 30	Pass

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7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

7.4.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 10.2 Method PKPSD

7.4.3. Test Setting

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3kHz
- 4. VBW = 10kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

7.4.4. Test Setup

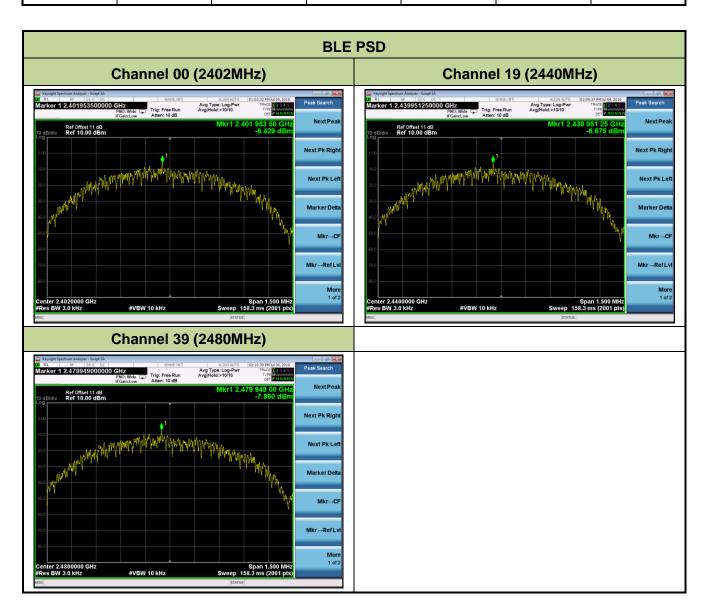
Spectrum Analyzer Attenuator EUT

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7.4.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1	00	2402	-6.43	≤ 8	Pass
BLE	1	19	2440	-6.68	≤ 8	Pass
BLE	1	39	2480	-7.86	≤ 8	Pass



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7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 11.2 & Section 11.3

7.5.3. Test Settitng

1. Reference level measurement

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW \geq 3 x RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

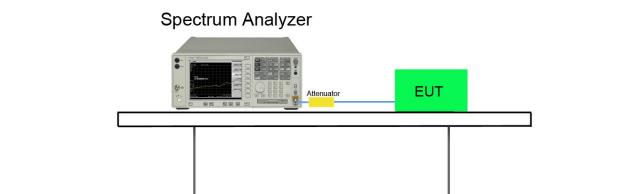
2. Emission level measurement

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Number of sweep points ≥ 2 x Span/RBW
- (f) Trace mode = max hold
- (g) Sweep time = auto couple
- (h) The trace was allowed to stabilize

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7.5.4. Test Setup

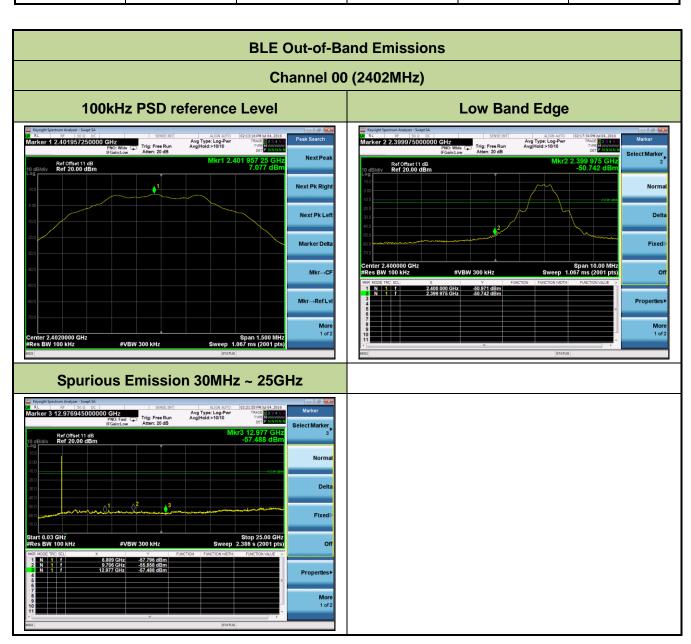


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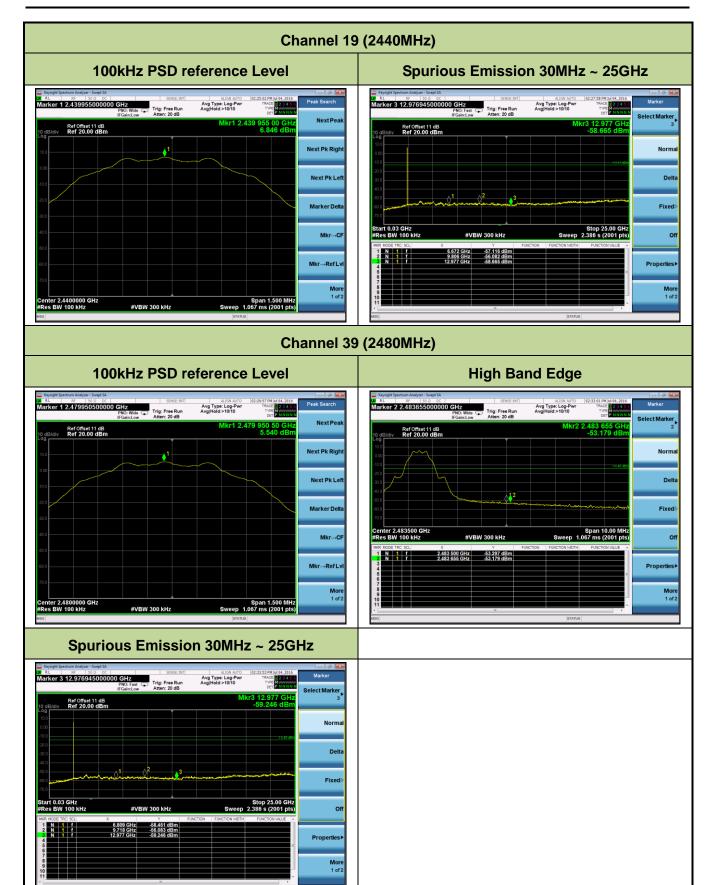
7.5.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
BLE	1	00	2402	20dBc	Pass
BLE	1	19	2440	20dBc	Pass
BLE	1	39	2480	20dBc	Pass



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7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

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 per Section 15.209.

S	47 OF IT THUSE HOL GAOCCU THE HITHES SHOWN HIT TUBIC PET OCCURON 10.203.							
FCC Part 15 Subpart C Paragraph 15.209								
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]						
0.009 – 0.490	2400/F (kHz)	300						
0.490 – 1.705	24000/F (kHz)	30						
1.705 - 30	30	30						
30 - 88	100	3						
88 - 216	150	3						
216 - 960	200	3						
Above 960	500	3						

7.6.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r05 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r05 - Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r05

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple

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

Table 1 - RBW as a function of frequency

Frequency	RBW		
9 ~ 150 kHz	200 ~ 300 Hz		
0.15 ~ 30 MHz	9 ~ 10 kHz		
30 ~ 1000 MHz	100 ~ 120 kHz		
> 1000 MHz	1 MHz		

Average Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r05

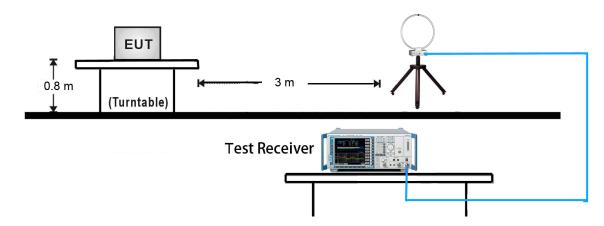
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

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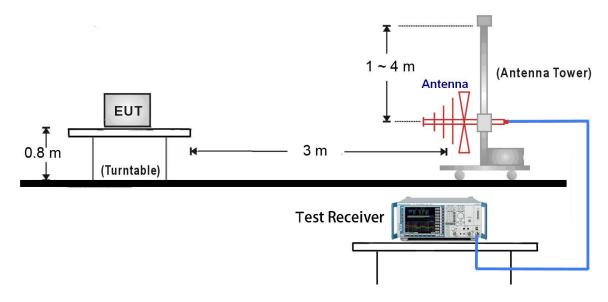


7.6.4. Test Setup

9kHz ~ 30MHz Test Setup:



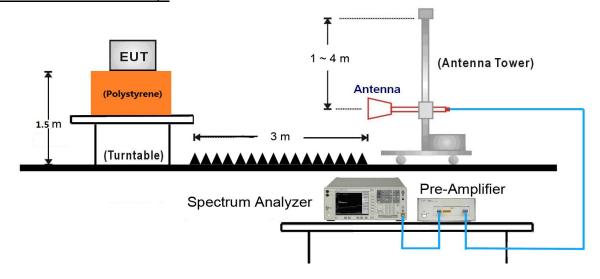
30MHz ~ 1GHz Test Setup:



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1GHz ~ 25GHz Test Setup:



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7.6.5. Test Result

Test Mode:	BLE	Test Site:	AC2		
Test Channel:	00	Test Engineer:	Lewis Huang		
Remark:	1. Average measurement was no	performed if peak level lower than average			
	limit.				
	2. The worst case of Radiated Spurious Emission.				
	3. Other frequency was 20dB below limit line within 1-18GHz, there is not show				
	in the report.	in the report.			

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4068.5	37.1	0.0	37.1	74.0	-36.9	Peak	Horizontal
	4774.0	35.5	2.9	38.4	74.0	-35.6	Peak	Horizontal
*	7205.0	34.8	10.5	45.3	77.4	-32.1	Peak	Horizontal
*	9831.5	33.7	13.2	46.9	77.4	-30.5	Peak	Horizontal
	4009.0	36.7	-0.4	36.3	74.0	-37.7	Peak	Vertical
	4748.5	35.2	2.9	38.1	74.0	-35.9	Peak	Vertical
*	7137.0	34.4	10.4	44.8	77.4	-32.6	Peak	Vertical
*	9755.0	34.2	13.0	47.2	77.4	-30.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.4dBµV/m) or 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

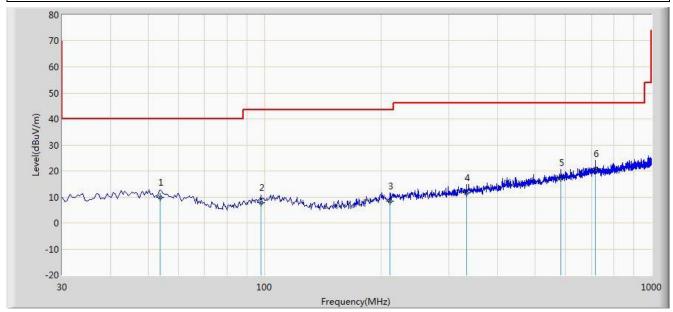
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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The worst case of Radiated Emission below 1GHz:

Worse Case Mode: Transmit by BLE at channel 2402MHz				
EUT: E-reader Power: By Battery				
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal			
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang			
Site: AC2	Time: 2016/07/09 - 18:12			



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			53.765	9.846	-5.012	-30.154	40.000	14.858	QP
2			97.900	7.709	-5.002	-35.791	43.500	12.710	QP
3			211.390	8.493	-3.976	-35.007	43.500	12.469	QP
4			332.640	11.582	-3.889	-34.418	46.000	15.471	QP
5			583.870	17.382	-2.456	-28.618	46.000	19.838	QP
6		*	717.730	20.817	-1.043	-25.183	46.000	21.861	QP

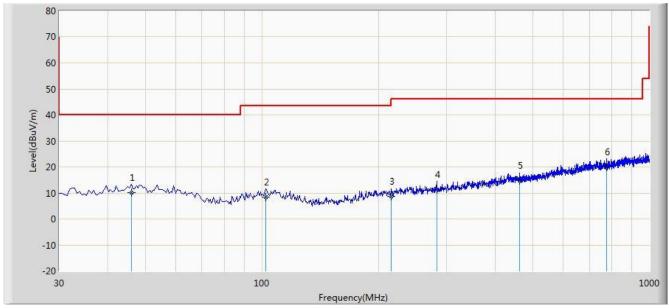
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Worse Case Mode: Transmit by BLE at channel 2402MHz				
EUT: E-reader Power: By Battery				
Probe: VULB9162_0.03-8GHz	Polarity: Vertical			
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang			
Site: AC2	Time: 2016/07/09 - 18:13			



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			46.005	10.244	-4.762	-29.756	40.000	15.007	QP
2			102.265	8.301	-4.889	-35.199	43.500	13.191	QP
3			215.755	8.557	-4.001	-34.943	43.500	12.558	QP
4			282.685	11.239	-3.005	-34.761	46.000	14.244	QP
5			462.620	14.649	-3.006	-31.351	46.000	17.655	QP
6		*	773.990	19.980	-2.571	-26.020	46.000	22.551	QP

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

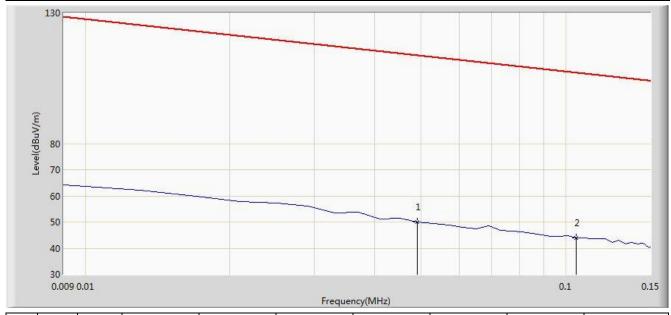
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Note: There is the ambient noise within frequency range 9kHz~30MHz					
EUT: E-reader	Power: By Battery				
Probe: FMZB1519_0.009-30MHz	Polarity: Face On				
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang				
Site: AC2	Time: 2016/06/19 - 15:34				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			0.049	50.112	29.552	-63.688	113.800	20.560	AV
2		*	0.105	44.043	23.845	-63.137	107.180	20.198	QP

Note: Measure Level $(dB\mu V/m)$ = Reading Level $(dB\mu V)$ + Factor (dB)

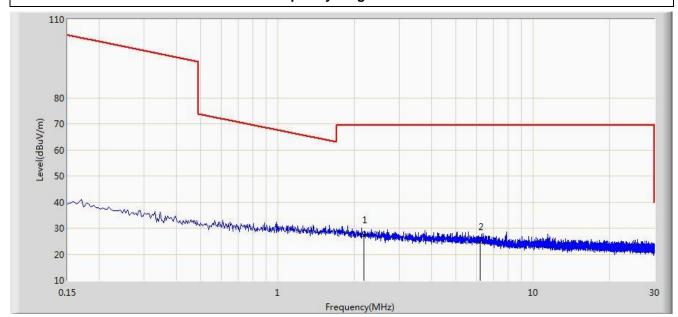
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

 $Limit@3m = 20*Log((2400/49)uV/m) + 40*Log(300m/3m) = 113.800dB\mu\nu/m$ (Average detector)

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Note: There is the ambient noise within frequency range 9kHz~30MHz.						
EUT: E-reader	Power: By Battery					
Probe: FMZB1519_0.009-30MHz	Polarity: Face On					
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang					
Site: AC2	Time: 2016/07/09 - 15:45					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2.175	27.371	6.960	-42.129	69.500	20.412	QP
2			6.216	24.786	4.701	-44.714	69.500	20.085	QP

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

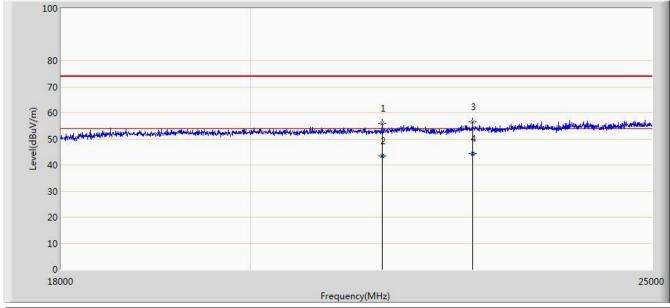
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

 $\label{eq:limit} Limit@3m = 20*Log(30uV/m) + 20*Log(30m/3m) = 49.5dB\mu\nu/m \ (Average \ detector), \ and \ 69.5dB\mu\nu/m \ (Quasi-Peak \ detector).$

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Note: There is the ambient noise within frequency range 18GHz~25GHz.						
EUT: E-reader	Power: By Battery					
Probe: BBHA9170_18-40GHz	Polarity: Horizontal					
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang					
Site: AC2	Time: 2016/07/09 - 15:45					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			21517.500	55.869	17.883	-18.131	74.000	37.986	PK
2			21517.650	43.351	5.365	-10.649	54.000	37.986	AV
3			22630.500	56.509	18.223	-17.491	74.000	38.286	PK
4		*	22630.540	44.310	6.024	-9.690	54.000	38.286	AV

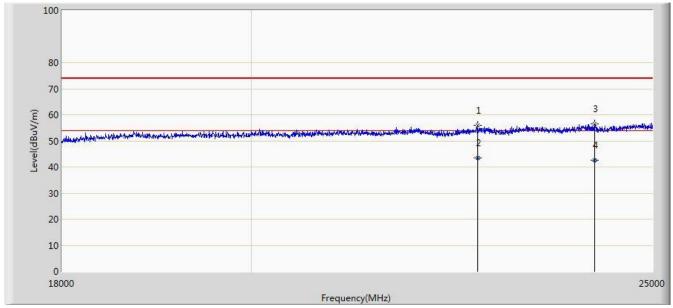
Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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Note: There is the ambient noise within frequency range 18GHz~25GHz					
EUT: E-reader	Power: By Battery				
Probe: BBHA9170_18-40GHz	Polarity: Vertical				
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang				
Site: AC2	Time: 2016/07/09 - 15:45				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			22686.500	55.811	17.457	-18.189	74.000	38.354	PK
2			22686.540	43.598	5.244	-10.402	54.000	38.354	AV
3			24205.500	56.430	17.607	-17.570	74.000	38.823	PK
4		*	24205.658	42.518	3.695	-11.482	54.000	38.823	AV

Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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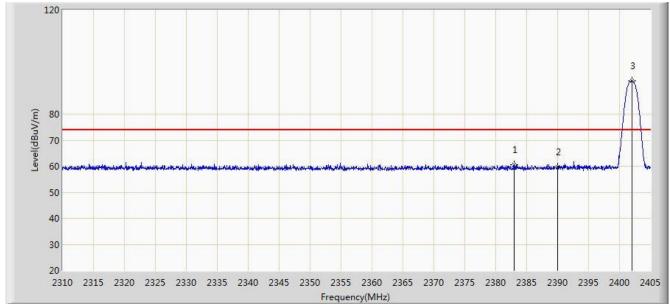


7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

Site: AC2	Time: 2016/07/02 - 12:34				
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: E-reader	Power: By Battery				
Test Mode: Transmit by BLE at Channel 2402MHz					

lest Mode: Transmit by BLE at Channel 2402MHz



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2382.960	60.450	28.211	-13.550	74.000	32.239	PK
2			2390.000	59.774	27.496	-14.226	74.000	32.278	PK
3		*	2402.008	92.677	60.403	N/A	N/A	32.274	PK

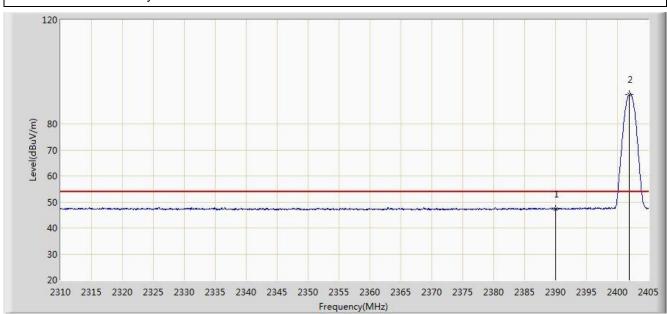
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC2	Time: 2016/07/02 - 12:38					
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang					
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal					
EUT: E-reader	Power: By Battery					
Test Mode: Transmit by BLE at Channel 2402MHz						



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	47.140	14.862	-6.860	54.000	32.278	AV
2		*	2401.913	91.357	59.083	N/A	N/A	32.274	AV

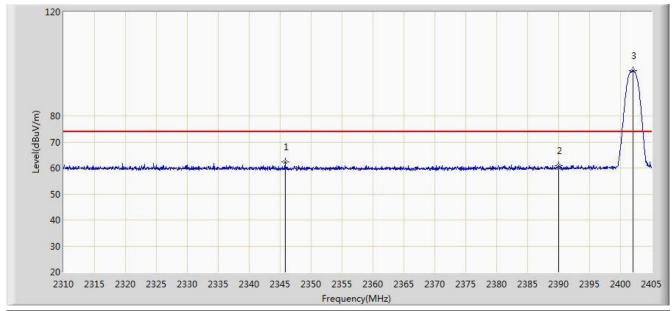
Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC2	Time: 2016/07/02 - 12:39				
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: E-reader	Power: By Battery				
Test Mode: Transmit by BLE at Channel 2402MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2345.815	62.192	29.899	-11.808	74.000	32.293	PK
2			2390.000	60.726	28.448	-13.274	74.000	32.278	PK
3		*	2402.008	97.443	65.169	N/A	N/A	32.274	PK

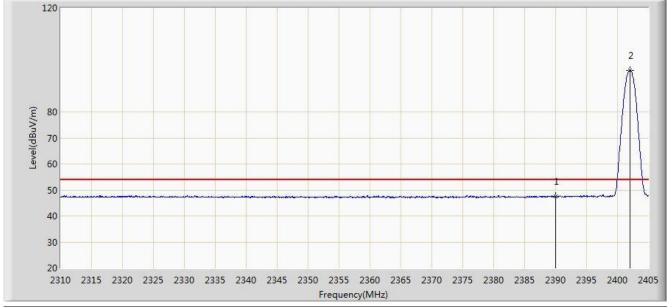
Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC2	Time: 2016/07/02 - 12:46				
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: E-reader	Power: By Battery				
Test Mode: Transmit by BLE at Channel 2402MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	47.417	15.139	-6.583	54.000	32.278	AV
2		*	2402.008	96.047	63.773	N/A	N/A	32.274	AV

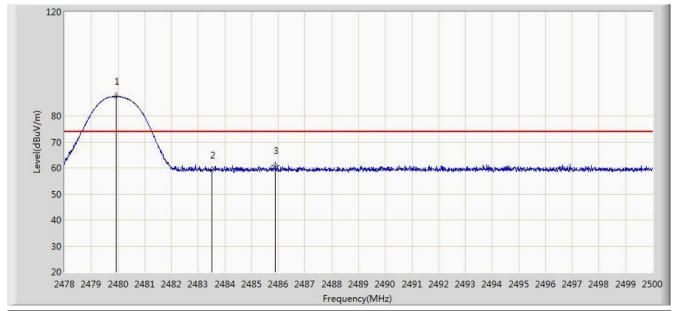
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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EUT: E-reader Test Mode: Transmit by BLE at Channel 2480MHz	Power: By Battery
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang
Site: AC2	Time: 2016/07/02 - 12:48



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.925	87.639	55.370	N/A	N/A	32.269	PK
2			2483.500	59.080	26.799	-14.920	74.000	32.282	PK
3			2485.898	60.921	28.632	-13.079	74.000	32.290	PK

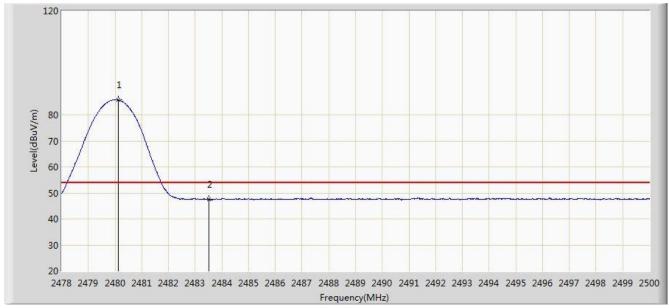
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Test Mode: Transmit by BLE at Channel 2480MHz					
EUT: E-reader	Power: By Battery				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang				
Site: AC2	Time: 2016/07/02 - 12:49				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.112	85.763	53.493	N/A	N/A	32.269	AV
2			2483.500	47.590	15.309	-6.410	54.000	32.282	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Site: AC2	Time: 2016/07/02 - 12:49					
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang					
Probe: BBHA9120D_1-18GHz	Polarity: Vertical					
EUT: E-reader	Power: By Battery					
Test Mode: Transmit by BLE at Channel 2480MHz						

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.936	94.491	62.222	N/A	N/A	32.269	PK
2			2483.500	59.641	27.360	-14.359	74.000	32.282	PK
3			2483.522	63.043	30.762	-10.957	74.000	32.282	PK

Frequency(MHz)

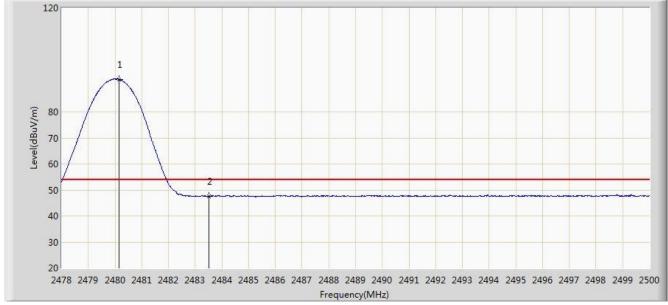
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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Test Mode: Transmit by BLE at Channel 2480MHz						
EUT: E-reader	Power: By Battery					
Probe: BBHA9120D_1-18GHz	Polarity: Vertical					
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang					
Site: AC2	Time: 2016/07/02 - 12:51					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.145	92.532	60.262	N/A	N/A	32.270	AV
2			2483.500	47.456	15.175	-6.544	54.000	32.282	AV

Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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7.8. AC Conducted Emissions Measurement

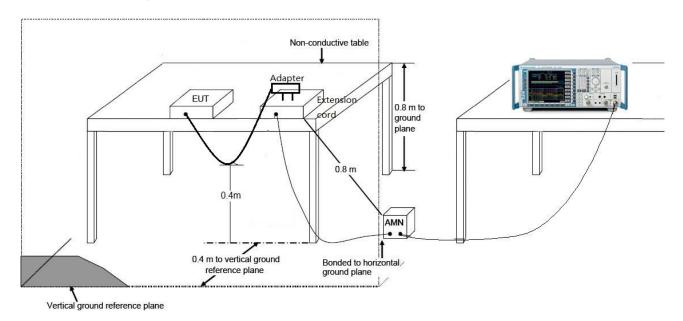
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits								
Frequency (MHz)	QP (dBuV)	AV (dBuV)						
0.15 - 0.50	66 - 56	56 – 46						
0.50 - 5.0	56	46						
5.0 - 30	60	50						

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup

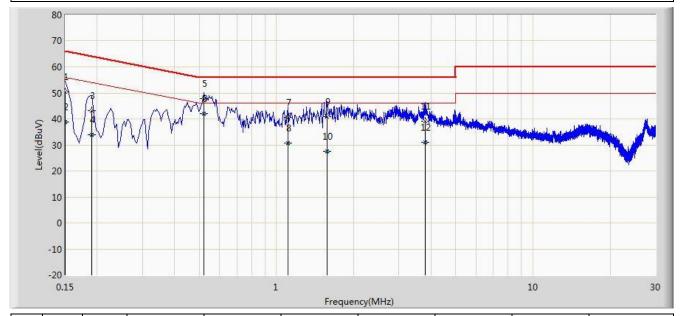


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7.8.3. Test Result

Test Mode: Transmit by BLE at channel 2402MHz						
EUT: E-reader	Power: AC 120V/60Hz					
Probe: ENV216_101683_Filter On	Polarity: Line					
Limit: FCC_Part15.207_CE_AC Power	Engineer: Lewis Huang					
Site: SR2	Time: 2016/06/21 - 17:29					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.150	50.489	39.321	-15.511	66.000	11.168	QP
2			0.150	38.845	27.677	-17.155	56.000	11.168	AV
3			0.190	43.285	33.256	-20.752	64.037	10.029	QP
4			0.190	33.811	23.782	-20.226	54.037	10.029	AV
5			0.522	47.693	37.538	-8.307	56.000	10.155	QP
6		*	0.522	42.070	31.915	-3.930	46.000	10.155	AV
7			1.110	40.617	30.713	-15.383	56.000	9.904	QP
8			1.110	30.595	20.690	-15.405	46.000	9.904	AV
9			1.578	40.740	30.854	-15.260	56.000	9.886	QP
10			1.578	27.409	17.523	-18.591	46.000	9.886	AV
11			3.790	39.038	29.080	-16.962	56.000	9.958	QP
12			3.790	30.943	20.985	-15.057	46.000	9.958	AV

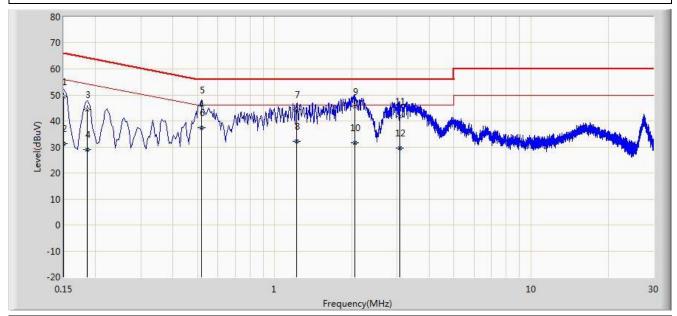
Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

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Site: SR2	Time: 2016/06/21 - 17:33					
Limit: FCC_Part15.207_CE_AC Power	Engineer: Lewis Huang					
Probe: ENV216_101683_Filter On	Polarity: Neutral					
EUT: E-reader	Power: AC 120V/60Hz					
Test Mode: Transmit by BLE at channel 2402MHz						



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.150	49.180	38.038	-16.820	66.000	11.142	QP
2			0.150	31.204	20.062	-24.796	56.000	11.142	AV
3			0.186	44.451	34.416	-19.762	64.213	10.035	QP
4			0.186	28.966	18.931	-25.247	54.213	10.035	AV
5			0.518	46.230	36.055	-9.770	56.000	10.175	QP
6		*	0.518	37.356	27.181	-8.644	46.000	10.175	AV
7			1.218	44.480	34.578	-11.520	56.000	9.901	QP
8			1.218	32.086	22.184	-13.914	46.000	9.901	AV
9			2.058	45.553	35.681	-10.447	56.000	9.872	QP
10			2.058	31.638	21.766	-14.362	46.000	9.872	AV
11			3.074	41.882	32.017	-14.118	56.000	9.866	QP
12			3.074	29.473	19.607	-16.527	46.000	9.866	AV

Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

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8. CONCLUSION

The data collected relate only the item(s) tested and show that the **E-reader FCC ID: XR3-MAX** is in compliance with Part 15C of the FCC Rules.

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The End