

# T-Link Industrial Development Co., Ltd.

## Tablet PC

**Main Model: NEXTab9 M920**

**Serial Model: N/A**

**August 29, 2014**

**Report No.: 14020301-FCC-R1**

**(This report supersedes NONE)**



**Modifications made to the product : None**

**This Test Report is Issued Under the Authority of:**

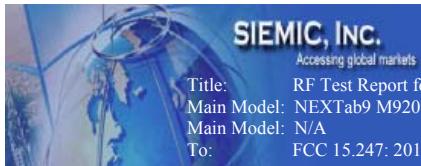
|                                 |                               |  |
|---------------------------------|-------------------------------|--|
|                                 |                               |  |
| Ray Zhao<br>Compliance Engineer | Alex Liu<br>Technical Manager |  |

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Test result presented in this test report is applicable to the representative sample only.**

# RF Test Report

To: FCC Part 15.247; 2013, ANSI C63.4; 2009

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management through out a project. Our extensive experience with China, Asia Pacific, North America, European, and international compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

| Country/Region | Scope                         |
|----------------|-------------------------------|
| USA            | EMC, RF/Wireless, Telecom     |
| Canada         | EMC, RF/Wireless, Telecom     |
| Taiwan         | EMC, RF, Telecom, Safety      |
| Hong Kong      | RF/Wireless, Telecom          |
| Australia      | EMC, RF, Telecom, Safety      |
| Korea          | EMI, EMS, RF, Telecom, Safety |
| Japan          | EMI, RF/Wireless, Telecom     |
| Singapore      | EMC, RF, Telecom              |
| Europe         | EMC, RF, Telecom, Safety      |



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## **1 EXECUTIVE SUMMARY & EUT INFORMATION**

**The purpose of this test programme was to demonstrate compliance of the T-Link Industrial Development Co., Ltd., Tablet PC and model: NEXTab9 M920 against the current Stipulated Standards. The Tablet PC has demonstrated compliance with the FCC 15.247: 2013, ANSI C63.4: 2009.**

### **EUT Information**

|  |   |
|--|---|
| <b>EUT Description</b>                                     | Tablet PC   |
| <b>Main Model</b>  | <b>NEXTab9 M920</b>   |
| <b>Serial Model</b>  | N/A   |
| <b>Antenna Gain</b>  | <b>Bluetooth:2dBi<br/>WIFI: 2dBi</b>  |
| <b>Input Power</b>   | <b>Li-ion Battery:<br/>3.7V 5000mAh<br/>Power Supply Adapter:<br/>Model: XD-05200<br/>Input: 100-240V 50/60Hz 0.3A<br/>Output: DC 5.0V 2.0A</b> |
| <b>Classification<br/>Per Stipulated<br/>Test Standard</b> | <b>FCC 15.247: 2013, ANSI C63.4: 2009</b>   |

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## 2 TECHNICAL DETAILS

|                                 |   |
|---------------------------------|---|
| Purpose                         | Compliance testing of Tablet PC with stipulated standard  |
| Applicant / Client              | T-Link Industrial Development Co., Ltd.<br>2F A4th Bldg., Hekan Industry Zone WuHe Road S., Longgang District ShenZhen China  |
| Manufacturer                    | T-Link Industrial Development Co., Ltd.<br>2F A4th Bldg., Hekan Industry Zone WuHe Road S., Longgang District ShenZhen China  |
| Laboratory performing the tests | SIEMIC (Nanjing-China) Laboratories<br>NO.2-1,Longcang Dadao, Yuhua Economic Development Zone,Nanjing, China<br>Tel:+86(25)86730128/86730129<br>Fax:+86(25)86730127<br>Email: China@siemic.com.cn |
| Test report reference number    | 14020301-FCC-R1   |
| Date EUT received               | April 03, 2014  |
| Standard applied                | FCC 15.247: 2013, ANSI C63.4: 2009  |
| Dates of test (from – to)       | August 27 to August 29, 2014  |
| No of Units                     | #1  |
| Equipment Category              | DSS   |
| Trade Name                      | NEXGeneration Electronics   |
| RF Operating Frequency (ies)    | 802.11b/g/n: 2412-2462 MHz<br>Bluetooth : 2402-2480 MHz   |
| Number of Channels              | Bluetooth: 79CH<br>802.11b/g/n: 11CH  |
| Modulation                      | 802.11b/g/n: DSSS/OFDM<br>Bluetooth: GFSK& π/4-DQPSK &8DPSK   |
| Port                            | Earphone Port, HDMI Port, USB Port, Power Port  |
| FCC ID                          | 2AATJ-M920  |

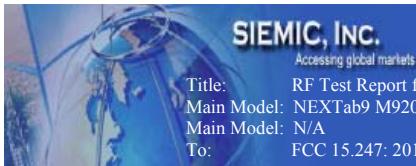


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### **3 MODIFICATION**

N/A



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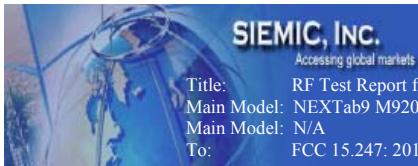
## 4 TEST SUMMARY

The product was tested in accordance with the following specifications.  
All testing has been performed according to below product classification:

### Spread Spectrum System/Device

#### Test Results Summary

| Test Standard                | Description                    | Product Class | Pass / Fail |
|------------------------------|--------------------------------|---------------|-------------|
| §15.247(i), §2.1093          | RF Exposure                    | See Above     | Pass        |
| §15.203                      | Antenna Requirement            | See Above     | Pass        |
| §15.207(a)                   | AC Line Conducted Emissions    | See Above     | Pass        |
| §15.205, §15.209, §15.247(d) | Radiated Emissions             | See Above     | Pass        |
| §15.247(a)(1)                | 20 dB Bandwidth                | See Above     | Pass        |
| §15.247(a)(1)                | Channel Separation             | See Above     | Pass        |
| §15.247(a)(1)(iii)           | Time of Occupancy (Dwell Time) | See Above     | Pass        |
| §15.247(a)(1)(iii)           | Quantity of Hopping Channel    | See Above     | Pass        |
| §15.247(b)(1)                | Peak Output Power              | See Above     | Pass        |
| §15.247(d)                   | Band Edge                      | See Above     | Pass        |



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## **5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS**

### **5.1 §15.247 (i) and §2.1093 – RF Exposure**

#### **Test Result: Pass**

The EUT is a portable device, thus requires SAR evaluation;  
please refer to SIEMIC RF Exposure Report: 14020301-SAR



## **5.2 §15.203 – Antenna Requirement**

### **Standard Requirement:**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **Antenna Connector Construction**

The EUT has 1 antenna: . a monopole antenna for Bluetooth, the gain is 2 dBi;  
a monopole antenna for WIFI, the gain is 2 dBi  
which in accordance to section 15.203, please refer to the internal photos.

### **Test Result: Pass**

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### **5.3 §15.207 (a) – AC Line Conducted Emissions**

#### **Standard Requirement:**

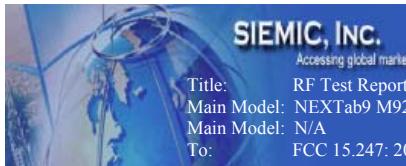
| <b>Frequency of emission (MHz)</b> | <b>Conducted limit (dB<math>\mu</math>V)</b> |                |
|------------------------------------|--|----------------|
|                                    | <b>Quasi-peak</b>                            | <b>Average</b> |
| 0.15–0.5                           | 66 to 56*                                    | 56 to 46*      |
| 0.5–5                              | 56   | 46             |
| 5–30                               | 60   | 50             |

\*Decreases with the logarithm of the frequency.

#### **Procedures:**

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is  $\pm 3.5$ dB.
4. Environmental Conditions  
Temperature  $24^{\circ}\text{C}$   
Relative Humidity 50%  
Atmospheric Pressure 1019mbar
5. Test date : August 27, 2014  
Tested By : Ray Zhao

#### **Test Result: Pass**

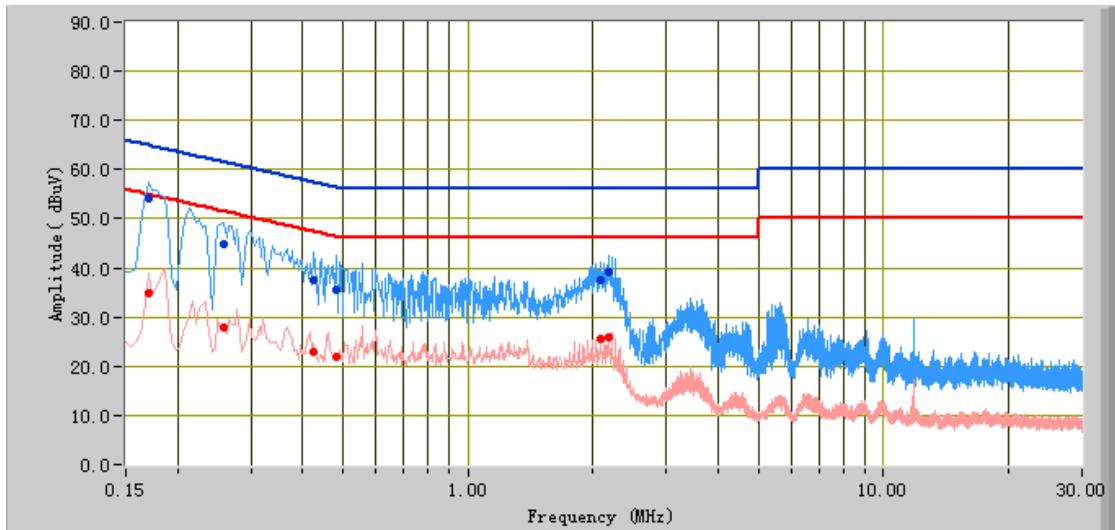


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**Test Mode:** Charging & GFSK Transmitting

Peak Detector Quasi Peak Limit   
Average Detector Average Limit



### Test Data

Phase Line Plot at 120V AC, 60Hz

| Frequency (MHz) | Quasi Peak (dBuV) | Limit (dBuV) | Margin (dB) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Factors (dB) |
|-----------------|-------------------|--------------|-------------|----------------|--------------|-------------|--------------|
| 0.17            | 54.11             | 64.96        | -10.85      | 34.99          | 54.96        | -19.97      | 11.93        |
| 0.26            | 44.70             | 61.50        | -16.79      | 27.74          | 51.50        | -23.75      | 11.44        |
| 2.17            | 39.24             | 56.00        | -16.76      | 25.98          | 46.00        | -20.02      | 10.88        |
| 0.48            | 35.47             | 56.30        | -20.84      | 21.84          | 46.30        | -24.47      | 11.11        |
| 0.43            | 37.58             | 57.33        | -19.75      | 22.75          | 47.33        | -24.58      | 11.20        |
| 2.07            | 37.69             | 56.00        | -18.31      | 25.45          | 46.00        | -20.55      | 10.88        |

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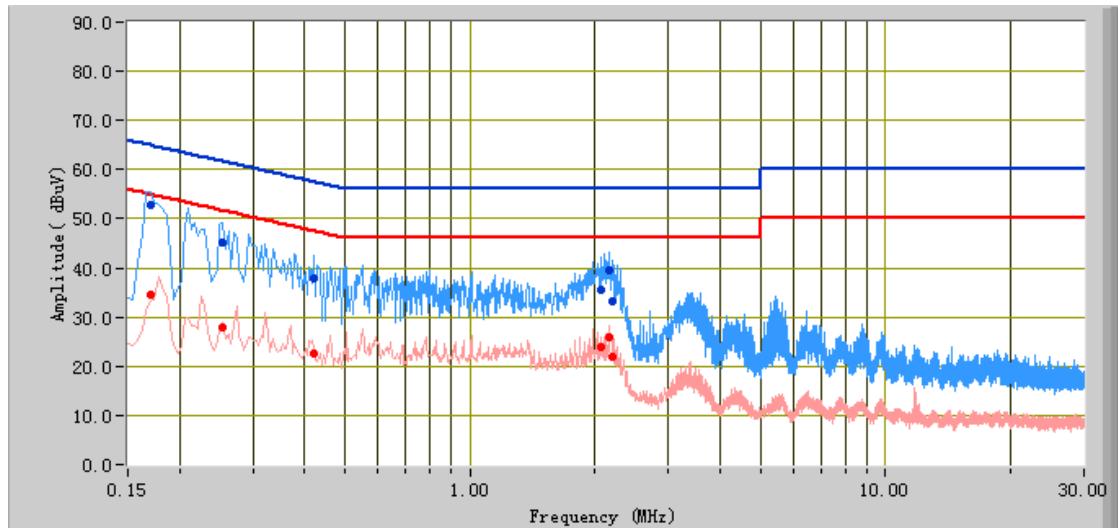
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**Test Mode:****Charging & GFSK Transmitting**

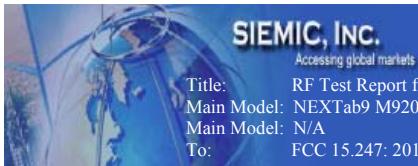
**Peak Detector** **Quasi Peak Limit**   
**Average Detector** **Average Limit**



### Test Data

#### Phase Neutral Plot at 120V AC, 60Hz

| Frequency (MHz) | Quasi Peak (dBuV) | Limit (dBuV) | Margin (dB) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Factors (dB) |
|-----------------|-------------------|--------------|-------------|----------------|--------------|-------------|--------------|
| 0.17            | 52.64             | 64.96        | -12.32      | 34.39          | 54.96        | -20.57      | 11.93        |
| 0.25            | 45.31             | 61.62        | -16.31      | 28.03          | 51.62        | -23.59      | 11.45        |
| 2.15            | 39.49             | 56.00        | -16.51      | 25.75          | 46.00        | -20.25      | 10.92        |
| 2.07            | 35.62             | 56.00        | -20.38      | 23.76          | 46.00        | -22.24      | 10.92        |
| 2.21            | 33.17             | 56.00        | -22.83      | 21.91          | 46.00        | -24.09      | 10.92        |
| 0.42            | 37.82             | 57.41        | -19.59      | 22.75          | 47.41        | -24.66      | 11.18        |



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## **5.4 §15.209, §15.205 & §15.247(d) - Spurious Emissions**

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz ( 3m & 10m ) & 1GHz above ( 3m ) is +5.6/-4.5dB.
4. Environmental Conditions      Temperature      24°C  
    Relative Humidity      50%  
    Atmospheric Pressure      1019mbar
5. Test date : August 27, 2014  
Tested By : Ray Zhao

### **Standard Requirement:**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).



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## Procedures:

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
  - a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
  - b. The EUT was then rotated to the direction that gave the maximum emission.
  - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. A Quasi-peak measurement was then made for that frequency point for below 1GHz test, PK and AV for above 1GHz emission test.
  - a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
  - b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
  - c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth for Average detection (AV) as below at frequency above 1GHz.

1/T (Duty cycle < 98%)       10 Hz (Duty cycle > 98%)

4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.

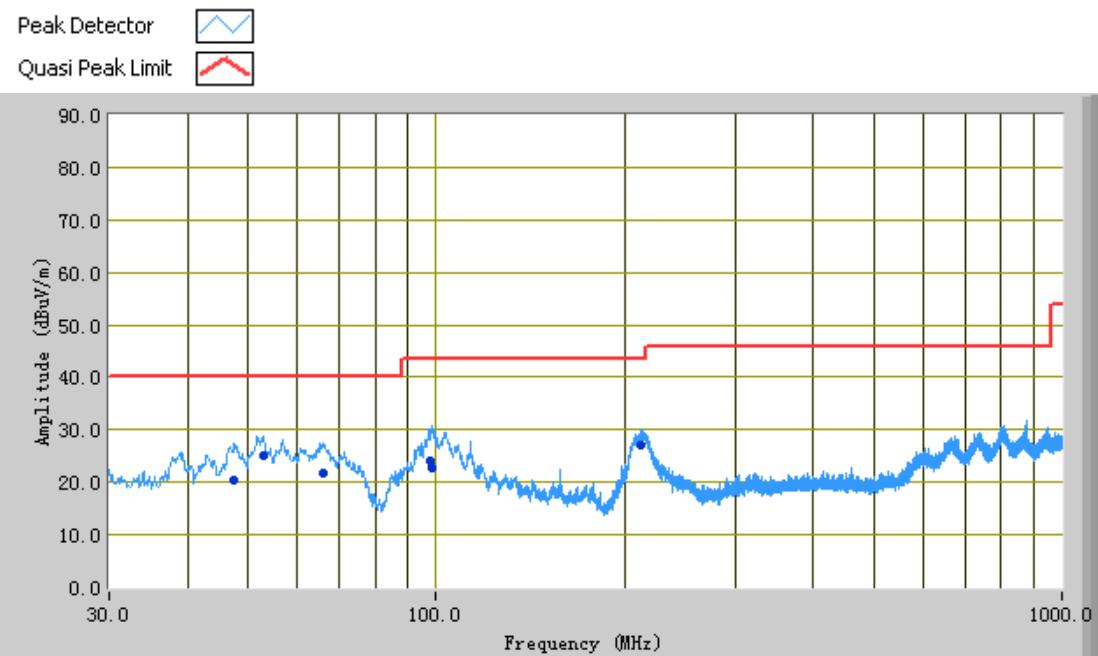
## Test Result: Pass

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**Test Mode: Charging & GFSK Transmitting*****Below 1GHz******Test Data*****Horizontal & Vertical Polarity Plot @3m**

| Frequency (MHz) | Quasi Peak (dBuV/m) | Azimuth | Polarity(H /V) | Height (cm) | Factors (dB) | Limit (dBuV/m) | Margin (dB) |
|-----------------|---------------------|---------|----------------|-------------|--------------|----------------|-------------|
| 52.62           | 25.15               | 180.00  | V              | 100.00      | -35.32       | 40.00          | -14.85      |
| 47.45           | 20.36               | 146.00  | V              | 151.00      | -33.23       | 40.00          | -19.64      |
| 98.30           | 22.85               | 110.00  | V              | 101.00      | -34.02       | 43.50          | -20.65      |
| 65.59           | 21.81               | 108.00  | V              | 100.00      | -37.44       | 40.00          | -18.19      |
| 213.03          | 27.04               | 169.00  | H              | 155.00      | -31.35       | 43.50          | -16.46      |
| 97.49           | 24.18               | 64.00   | V              | 104.00      | -34.23       | 43.50          | -19.32      |

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**Test Mode:****GFSK Transmitting*****Above 1 GHz***

**Note: Other Bluetooth modes were verified; only the result of worst case DH5 mode was presented.**

**Low Channel (2402 MHz)**

| Frequency (MHz) | S.A. Reading (dB $\mu$ V) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------------|----------------------|-------------|
| 4804            | 34.82                     | AV               | V              | 33.83              | 4.87            | 24                 | 49.52                     | 54                   | -4.48       |
| 4804            | 35.97                     | AV               | H              | 33.83              | 4.87            | 24                 | 50.67                     | 54                   | -3.33       |
| 4804            | 44.781                    | PK               | V              | 33.83              | 4.87            | 24                 | 59.48                     | 74                   | -14.59      |
| 4804            | 45.99                     | PK               | H              | 33.83              | 4.87            | 24                 | 60.69                     | 74                   | -13.31      |

**Middle Channel (2441 MHz)**

| Frequency (MHz) | S.A. Reading (dB $\mu$ V) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------------|----------------------|-------------|
| 4880            | 34.34                     | AV               | V              | 33.86              | 4.87            | 24                 | 49.07                     | 54                   | -4.93       |
| 4880            | 34.11                     | AV               | H              | 33.86              | 4.87            | 24                 | 48.84                     | 54                   | -5.16       |
| 4880            | 44.91                     | PK               | V              | 33.86              | 4.87            | 24                 | 59.64                     | 74                   | -14.36      |
| 4880            | 45.39                     | PK               | H              | 33.86              | 4.87            | 24                 | 60.12                     | 74                   | -13.88      |

**High Channel (2480 MHz)**

| Frequency (MHz) | S.A. Reading (dB $\mu$ V) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord. Amp. (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|-----------------|---------------------------|------------------|----------------|--------------------|-----------------|--------------------|---------------------------|----------------------|-------------|
| 4960            | 34.49                     | AV               | V              | 33.9               | 4.87            | 24                 | 49.26                     | 54                   | -4.74       |
| 4960            | 33.96                     | AV               | H              | 33.9               | 4.87            | 24                 | 48.73                     | 54                   | -5.27       |
| 4960            | 43.72                     | PK               | V              | 33.9               | 4.87            | 24                 | 58.49                     | 74                   | -15.51      |
| 4960            | 43.92                     | PK               | H              | 33.9               | 4.87            | 24                 | 58.69                     | 74                   | -15.31      |

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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## **§15.247(a) (1)-Channel Separation**

1. Conducted Measurement  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. Environmental Conditions  
Temperature 24°C  
Relative Humidity 50%  
Atmospheric Pressure 1019mbar
3. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5$ dB.
4. Test date : August 27, 2014  
Tested By : Ray Zhao

### **Standard Requirement:**

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### **Procedures:**

1. Place the EUT on the table and set it in hopping function transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as Resolution (or IF) Bandwidth (RBW)  $\geq$  1% of the span, Video (or Average) Bandwidth (VBW)  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold.
5. Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

### **Test Result: Pass**

| Test Mode: | GFSK Transmitting |
|------------|-------------------|
|------------|-------------------|

| Channel           | Channel Frequency (MHz) | Channel Separation (MHz) | Limit (MHz) | Result |
|-------------------|-------------------------|--------------------------|-------------|--------|
| Low Channel       | 2402                    | 1.004                    | 0.764       | Pass   |
| Adjacency Channel | 2403                    |                          |             |        |
| Mid Channel       | 2441                    | 1.000                    | 0.768       | Pass   |
| Adjacency Channel | 2440                    |                          |             |        |
| High Channel      | 2480                    | 1.000                    | 0.764       | Pass   |
| Adjacency Channel | 2479                    |                          |             |        |

Please refer to the following plots.

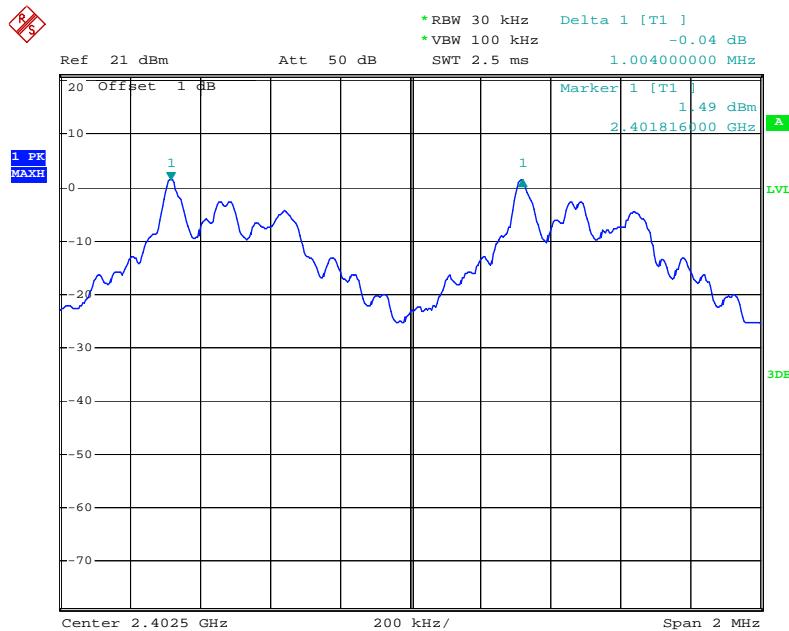
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

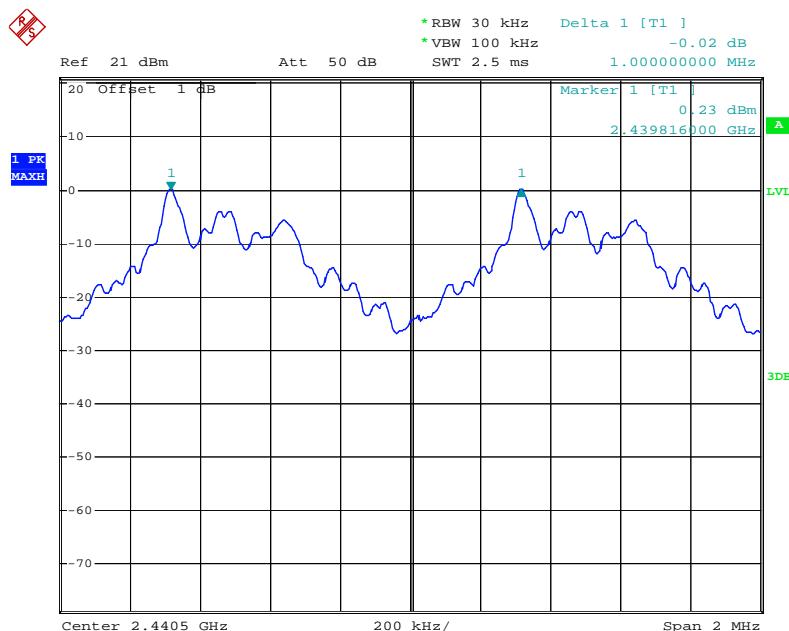
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## Low Channel



Date: 27.AUG.2014 23:01:54

## Middle Channel



Date: 27.AUG.2014 23:03:21

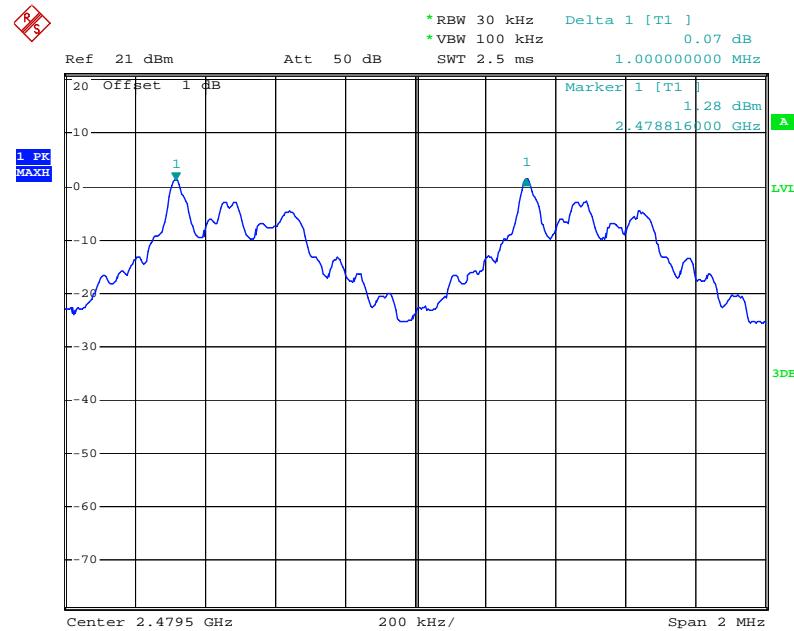
**SIEMIC, INC.**

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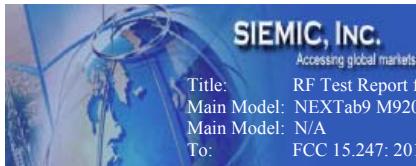
Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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### High Channel



Date: 27.AUG.2014 23:06:12



Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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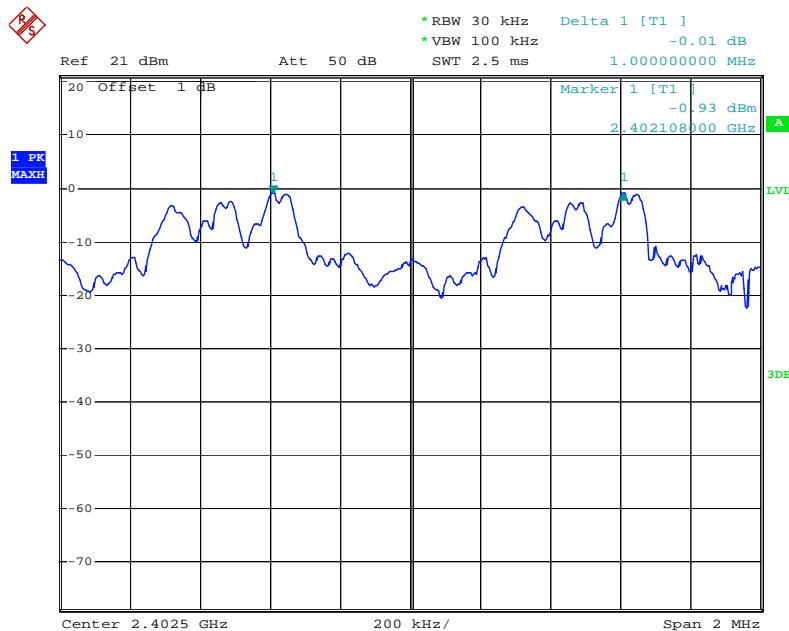
**Test Mode:**

**π/4-DQPSK Transmitting**

| Channel           | Channel Frequency (MHz) | Channel Separation (MHz) | Limit (MHz) | Result |
|-------------------|-------------------------|--------------------------|-------------|--------|
| Low Channel       | 2402                    | 1.000                    | 0.744       | Pass   |
| Adjacency Channel | 2403                    |                          |             |        |
| Mid Channel       | 2441                    | 1.004                    | 0.744       | Pass   |
| Adjacency Channel | 2440                    |                          |             |        |
| High Channel      | 2480                    | 1.004                    | 0.752       | Pass   |
| Adjacency Channel | 2479                    |                          |             |        |

Please refer to the following plots.

### Low Channel



Date: 27.AUG.2014 23:13:29

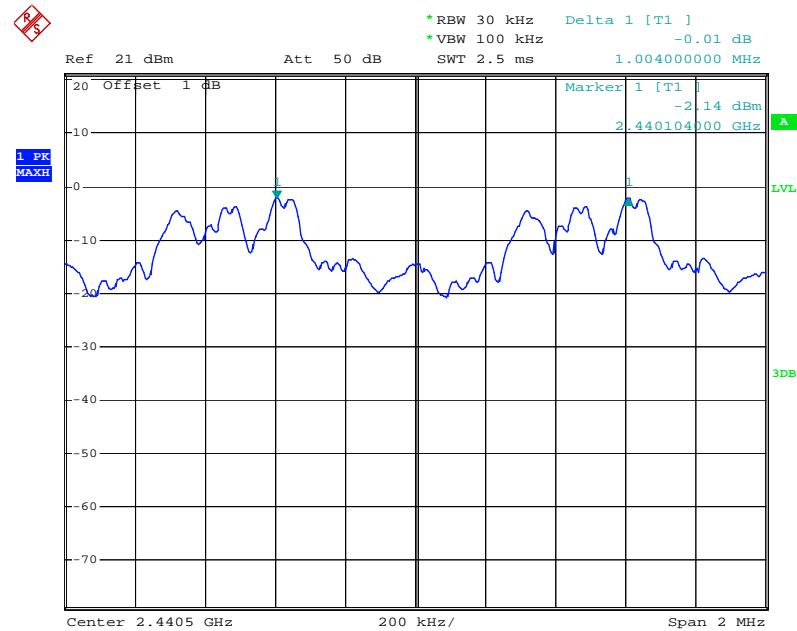
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

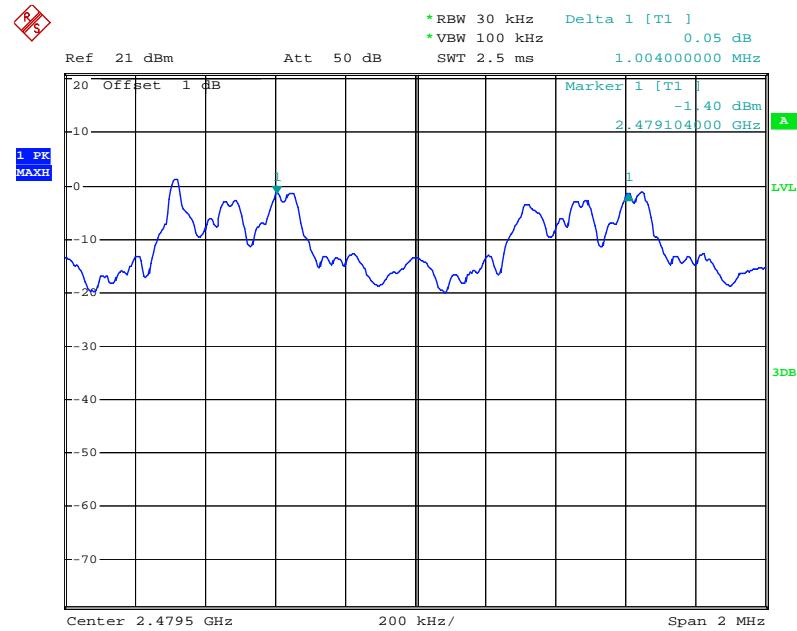
Report No: 14020301-FCC-R1  
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## Middle Channel

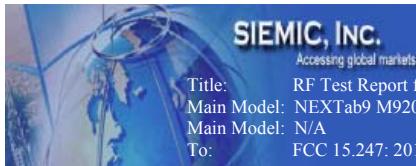


Date: 27.AUG.2014 23:14:45

## High Channel



Date: 27.AUG.2014 23:17:51



Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

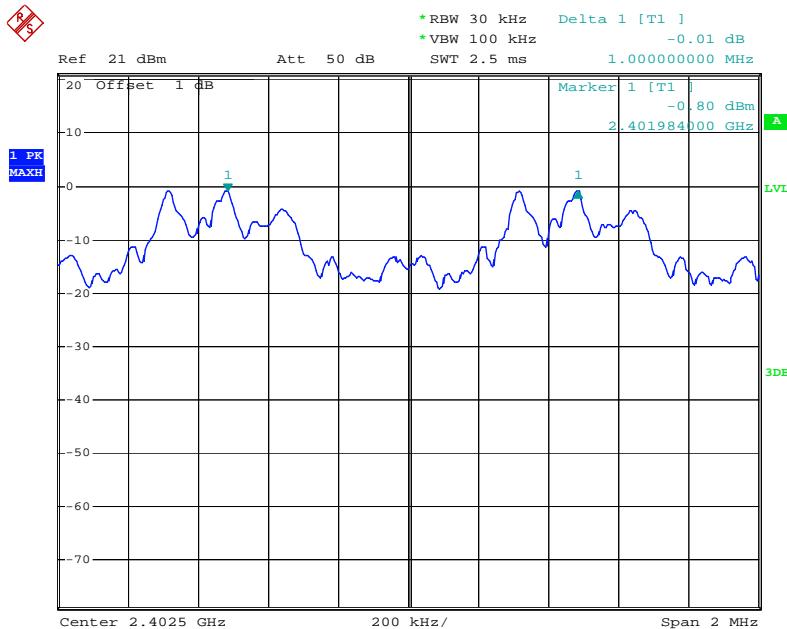
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**Test Mode: 8DPSK Transmitting**

| Channel           | Channel Frequency (MHz) | Channel Separation (MHz) | Limit (MHz) | Result |
|-------------------|-------------------------|--------------------------|-------------|--------|
| Low Channel       | 2402                    | 1.000                    | 0.760       | Pass   |
| Adjacency Channel | 2403                    |                          |             |        |
| Mid Channel       | 2441                    | 1.004                    | 0.760       | Pass   |
| Adjacency Channel | 2440                    |                          |             |        |
| High Channel      | 2480                    | 1.004                    | 0.752       | Pass   |
| Adjacency Channel | 2479                    |                          |             |        |

Please refer to the following plots.

### Low Channel



Date: 27.AUG.2014 23:22:45

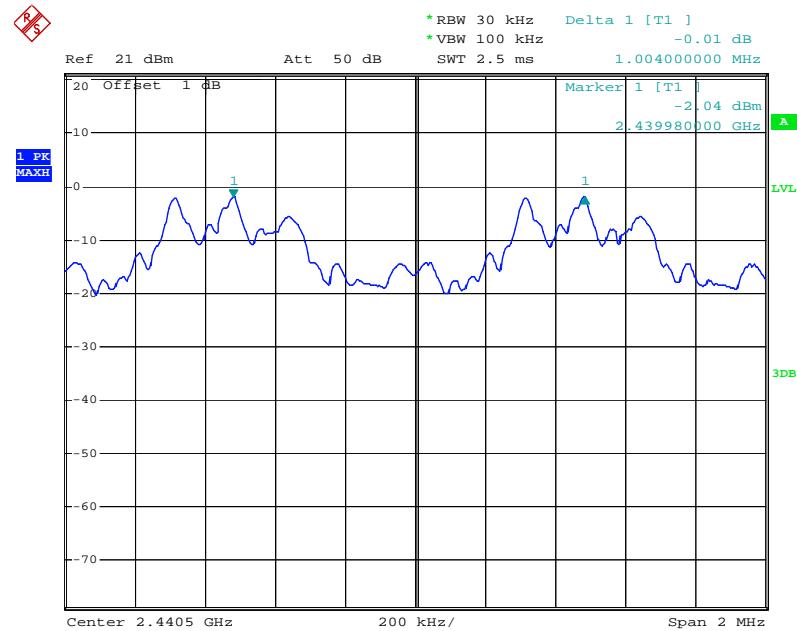
**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

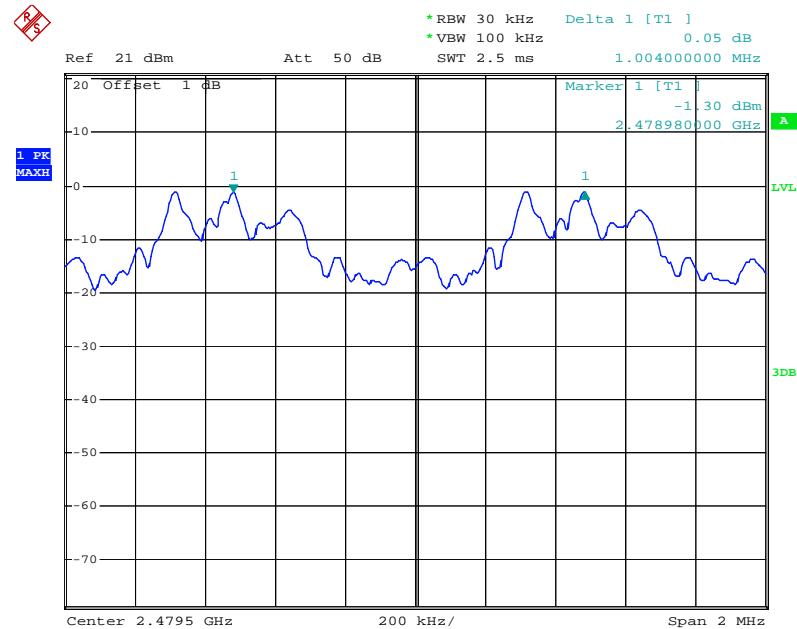
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### Middle Channel



Date: 27.AUG.2014 23:24:24

### High Channel



Date: 27.AUG.2014 23:26:59

**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## **§15.247(a) (1) – 20dB Bandwidth**

### 1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal.

### 2. Environmental Conditions

|                      |          |
|----------------------|----------|
| Temperature          | 24°C     |
| Relative Humidity    | 50%      |
| Atmospheric Pressure | 1019mbar |

### 3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5$ dB.

### 4. Test date : August 27, 2014

Tested By : Ray Zhao

### **Standard Requirement:**

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

### **Procedures:**

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel,  $RBW \geq 1\%$  of the 20 dB bandwidth,  $VBW \geq RBW$ , Sweep = auto, Detector function = peak, Trace = max hold.
4. Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

### **Test Result: Pass**

|                   |                          |
|-------------------|--------------------------|
| <b>Test Mode:</b> | <b>GFSK Transmitting</b> |
|-------------------|--------------------------|

| Channel | Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| Low     | 2402            | 0.764                 |
| Middle  | 2441            | 0.768                 |
| High    | 2480            | 0.764                 |

Please refer to the following plots.



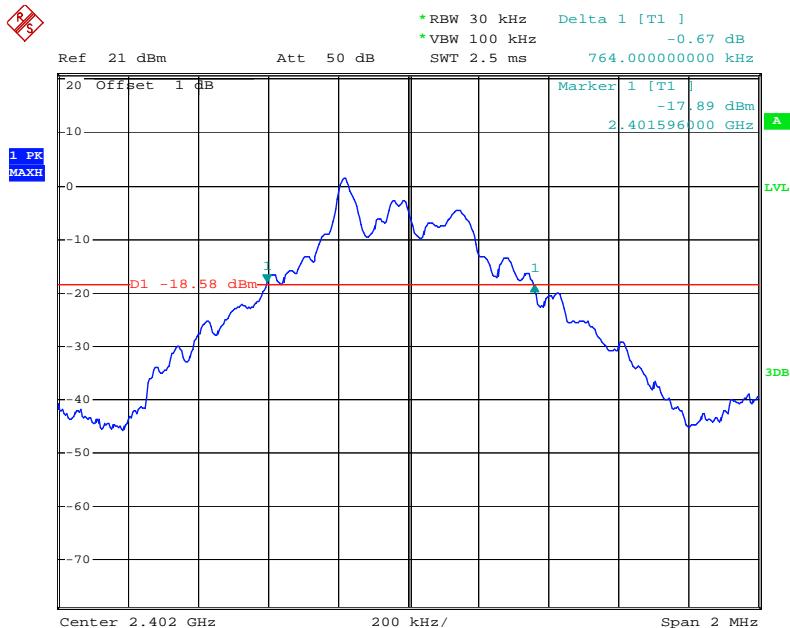
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

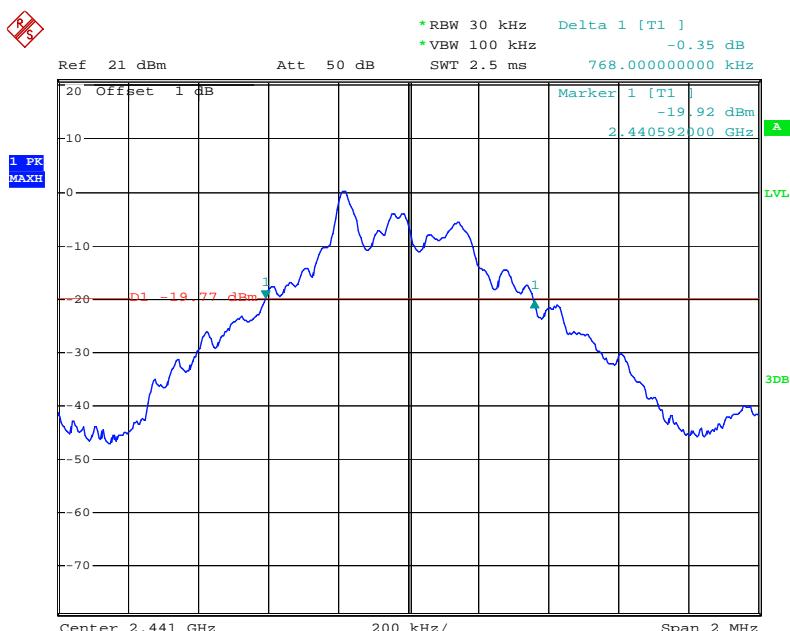
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### Low Channel



Date: 27.AUG.2014 22:58:03

### Middle Channel



Date: 27.AUG.2014 23:04:01



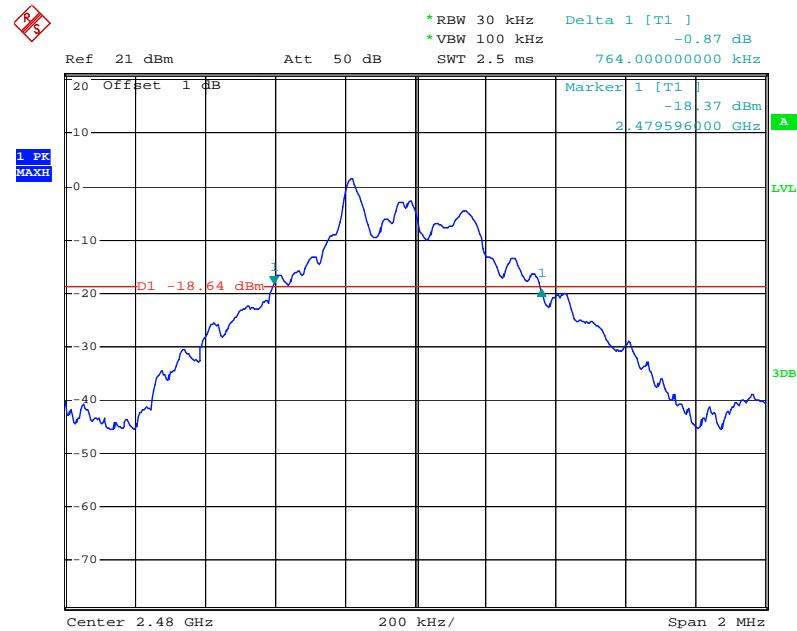
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## High Channel



Date: 27.AUG.2014 23:06:46

**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

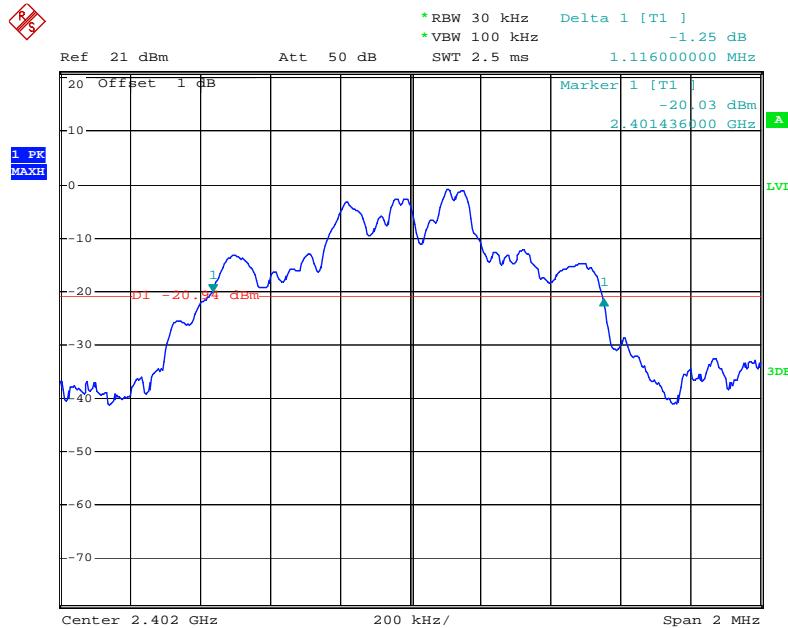
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**Test Mode:** **$\pi/4$ -DQPSK Transmitting**

| Channel | Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| Low     | 2402            | 1.116                 |
| Middle  | 2441            | 1.116                 |
| High    | 2480            | 1.128                 |

Please refer to the following plots.

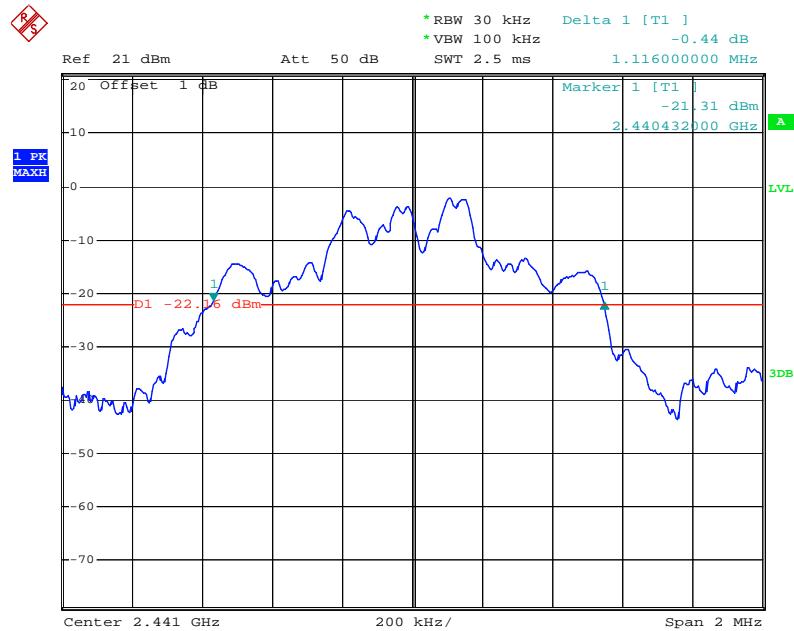
### Low Channel



Date: 27.AUG.2014 23:11:00

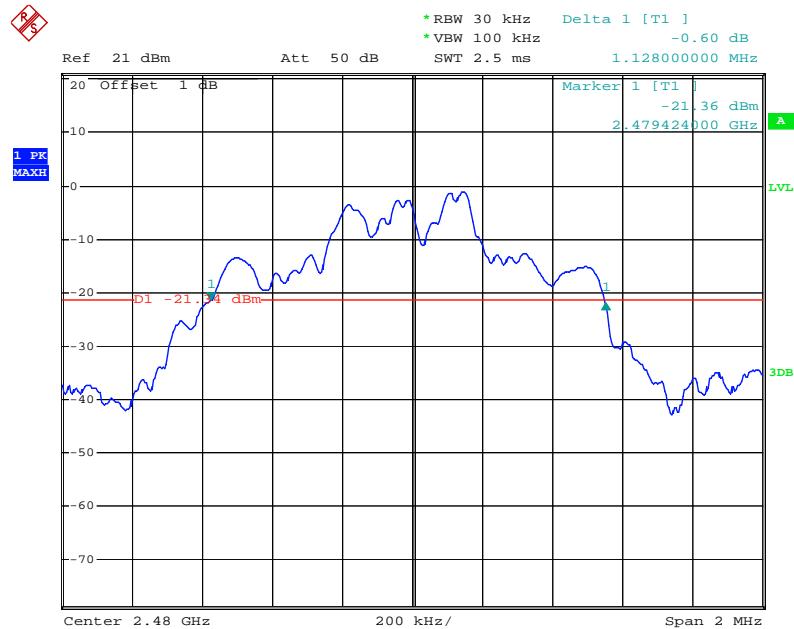


### Middle Channel



Date: 27.AUG.2014 23:15:26

### High Channel



Date: 27.AUG.2014 23:18:50

**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

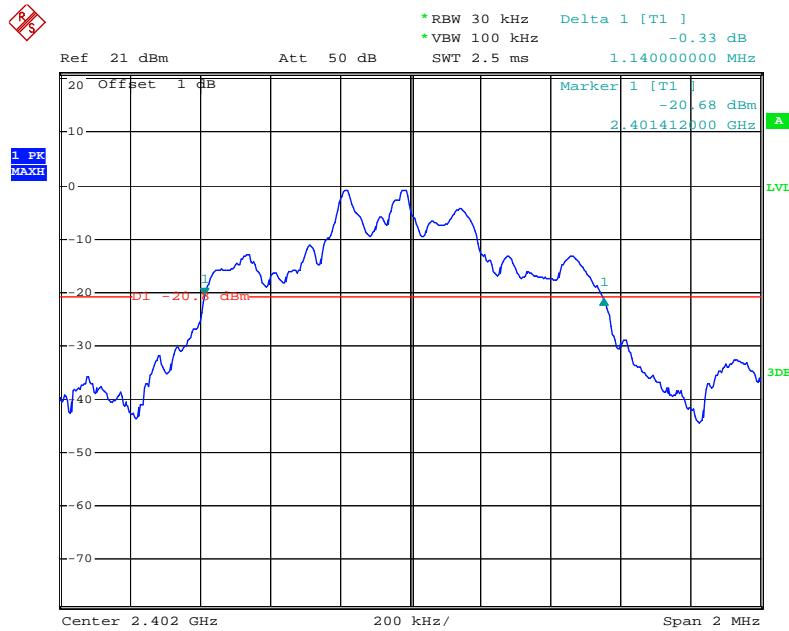
Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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**Test Mode: 8DPSK Transmitting**

| Channel | Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| Low     | 2402            | 1.140                 |
| Middle  | 2441            | 1.140                 |
| High    | 2480            | 1.128                 |

Please refer to the following plots.

### Low Channel



Date: 27.AUG.2014 23:20:41



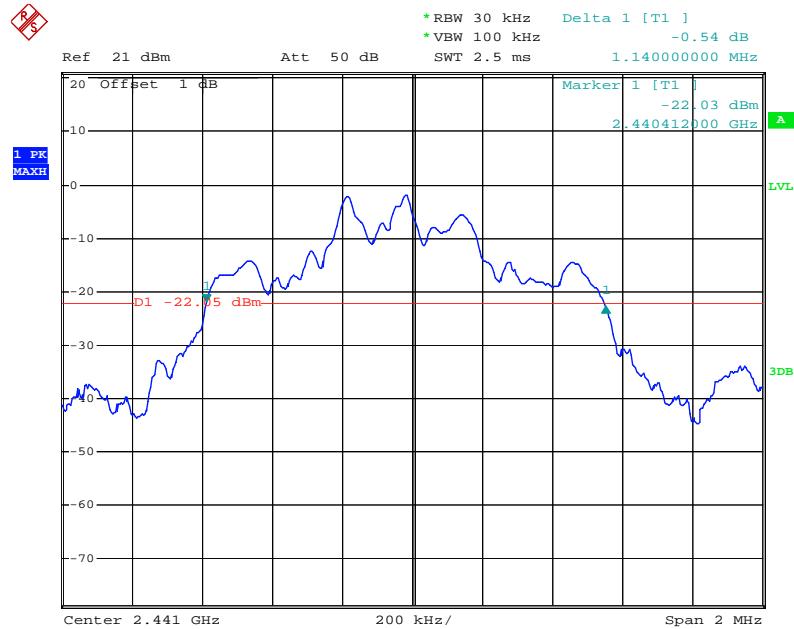
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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

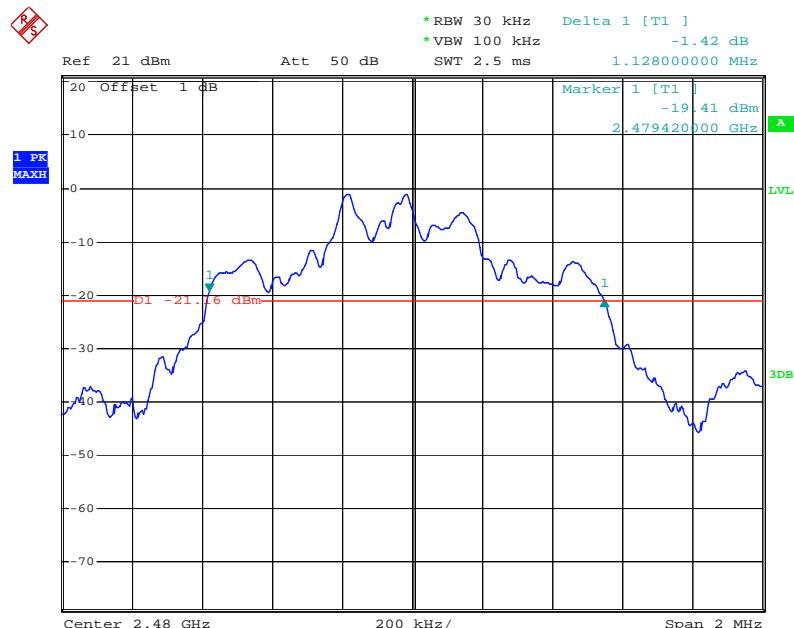
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### Middle Channel



Date: 27.AUG.2014 23:24:57

### High Channel



Date: 27.AUG.2014 23:27:32



Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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## **5.5 §15.247(a) (1) (iii)-Number of Hopping Channels**

1. Conducted Measurement  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5$ dB.
3. Environmental Conditions  

|                      |          |
|----------------------|----------|
| Temperature          | 24°C     |
| Relative Humidity    | 50%      |
| Atmospheric Pressure | 1019mbar |
4. Test date : August 27, 2014  
Tested By : Ray Zhao

### **Standard Requirement:**

According to §15.247(a)(1)(iii), Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

### **Procedures:**

1. Place the EUT on the table and set it in hopping function transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Start=2400MHz, Stop = 2483.5MHz, Span = the frequency band of operation, RBW  $\geq 1\%$  of the span, VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold.
4. Count the quantity of peaks to get the number of hopping channels.

### **Test Result: Pass**

**SIEMIC, INC.**

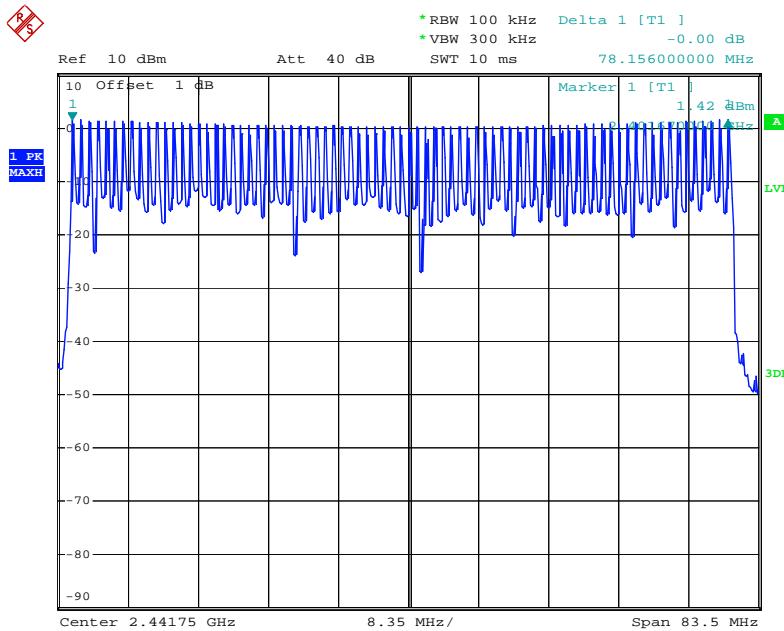
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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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**Test Mode:****Hopping Mode With GFSK Modulation**

| Frequency Range (MHz) | Number of Hopping Channels | Limit |
|-----------------------|----------------------------|-------|
| 2400-2483.5           | 79                         | ≥15   |

**Please refer to following tables and plots****Number of Hopping Channels**

Date: 27.AUG.2014 23:45:11

**SIEMIC, INC.**

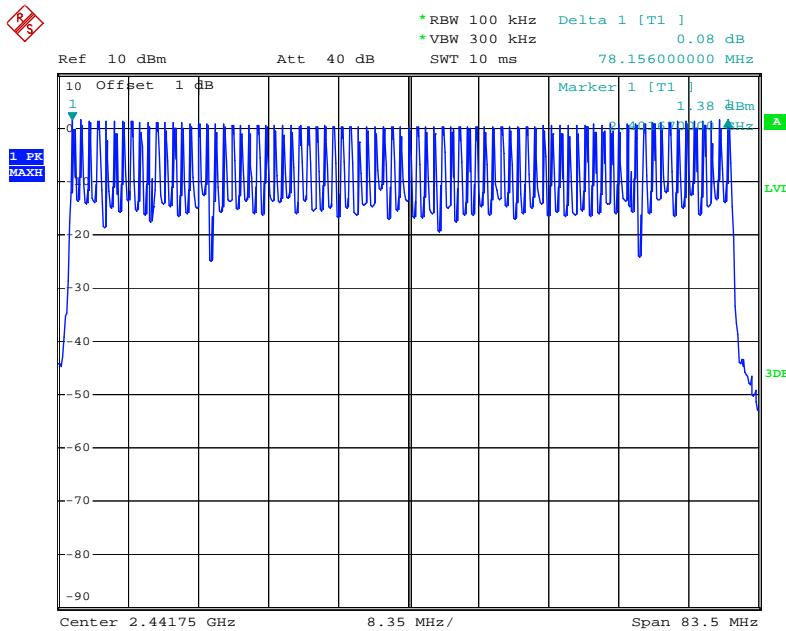
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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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**Test Mode:****Hopping Mode With  $\pi/4$ -DQPSK Modulation**

| Frequency Range (MHz) | Number of Hopping Channels | Limit     |
|-----------------------|----------------------------|-----------|
| 2400-2483.5           | 79                         | $\geq 15$ |

**Please refer to following tables and plots****Number of Hopping Channels**

Date: 27.AUG.2014 23:47:41

**SIEMIC, INC.**

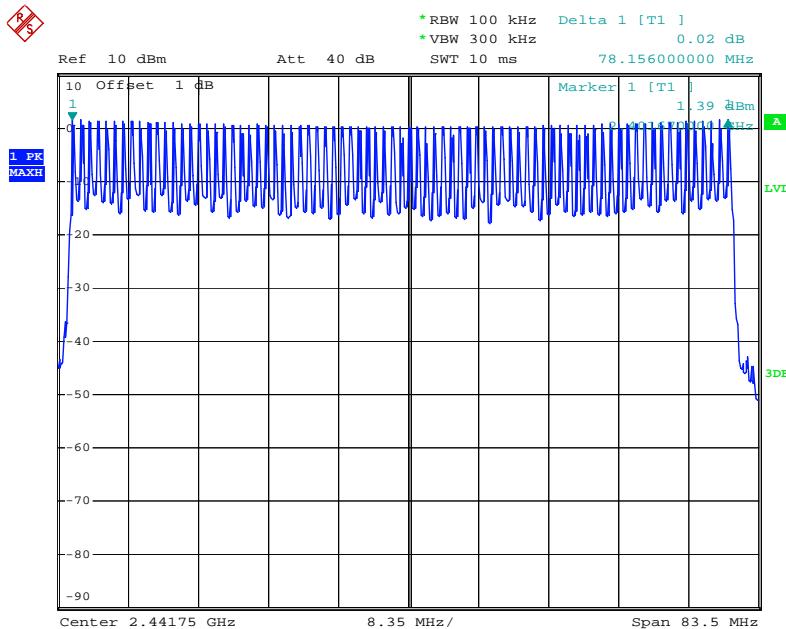
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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

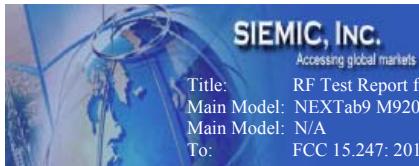
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Issue Date: August 29, 2014  
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**Test Mode:****Hopping Mode With 8DPSK Modulation**

| Frequency Range (MHz) | Number of Hopping Channels | Limit |
|-----------------------|----------------------------|-------|
| 2400-2483.5           | 79                         | ≥15   |

**Please refer to following tables and plots****Number of Hopping Channels**

Date: 27.AUG.2014 23:51:03



Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## **5.6 §15.247(a) (1) (iii) -Time of Occupancy (Dwell Time)**

1. Conducted Measurement  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5\text{dB}$ .
3. Environmental Conditions  

|                      |          |
|----------------------|----------|
| Temperature          | 24°C     |
| Relative Humidity    | 50%      |
| Atmospheric Pressure | 1019mbar |
4. Test date : August 27, 2014  
Tested By : Ray Zhao

### **Standard Requirement:**

According to §15.247(a)(1)(iii), The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### **Procedures:**

1. Place the EUT on the table and set it in transmitting mode and switch on frequency hopping function.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = zero span, centered on a hopping channel,  
RBW=1MHz, VBW  $\geq$  RBW, Sweep = as necessary to capture the entire dwell time per hopping channel, Detector function = peak, Trace = max hold.
4. Calculate the time of occupancy in a period with time occupancy of a burst and quantity of bursts.

### **Test Result: Pass**

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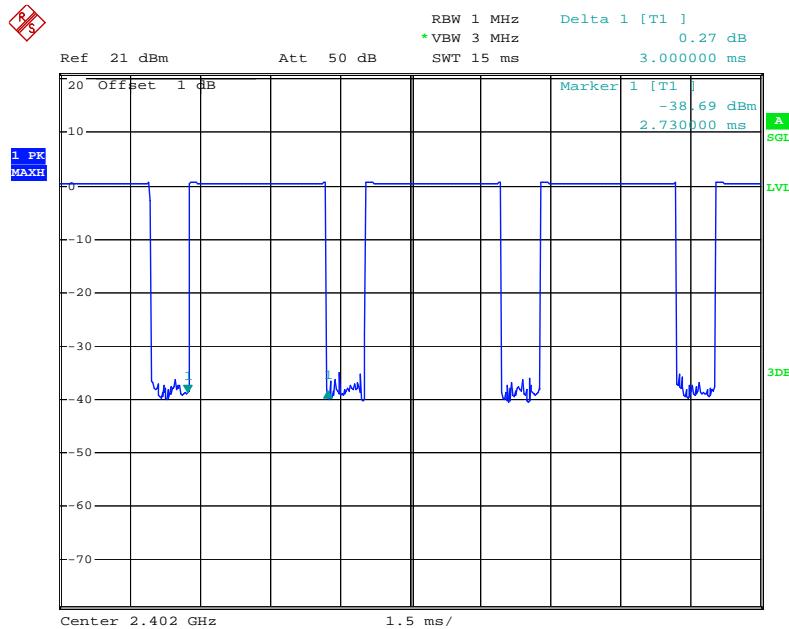
Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14020301-FCC-R1  
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**Test Mode: Hopping Mode With GFSK Modulation**

| Mode | Channel  | Pulse Width (ms) | Dwell Time (s) | Limit (s) | Result |
|------|--|------------------|----------------|-----------|--------|
| DH 5 | Low  | 3.000            | 0.32000        | 0.4       | Pass   |
|      | Middle   | 3.000            | 0.32000        | 0.4       | Pass   |
|      | High   | 3.000            | 0.32000        | 0.4       | Pass   |
|      | <b>Note:</b> Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second |                  |                |           |        |

Please refer to the following plots.

**Low Channel for DH5**

Date: 27.AUG.2014 22:59:29

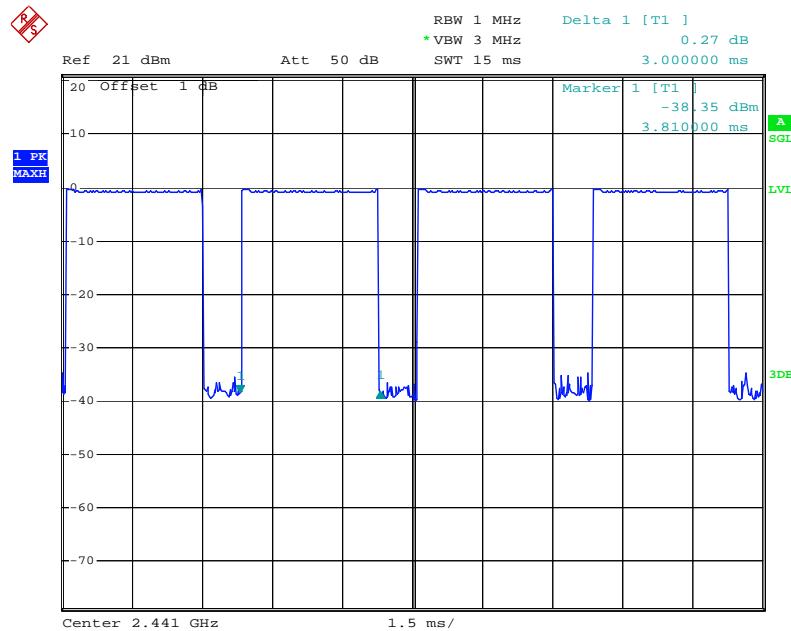
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

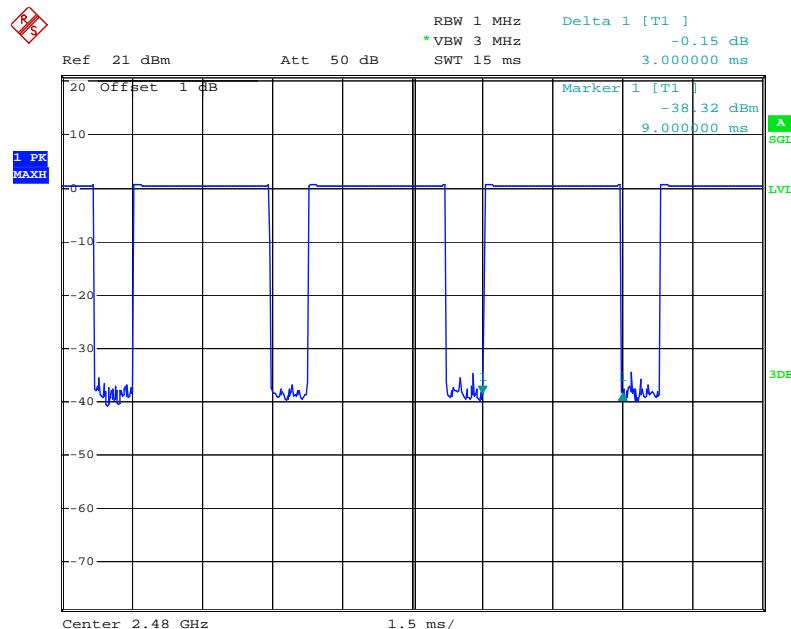
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### Middle Channel for DH5



Date: 27.AUG.2014 23:04:49

### High Channel for DH5



Date: 27.AUG.2014 23:07:45

**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

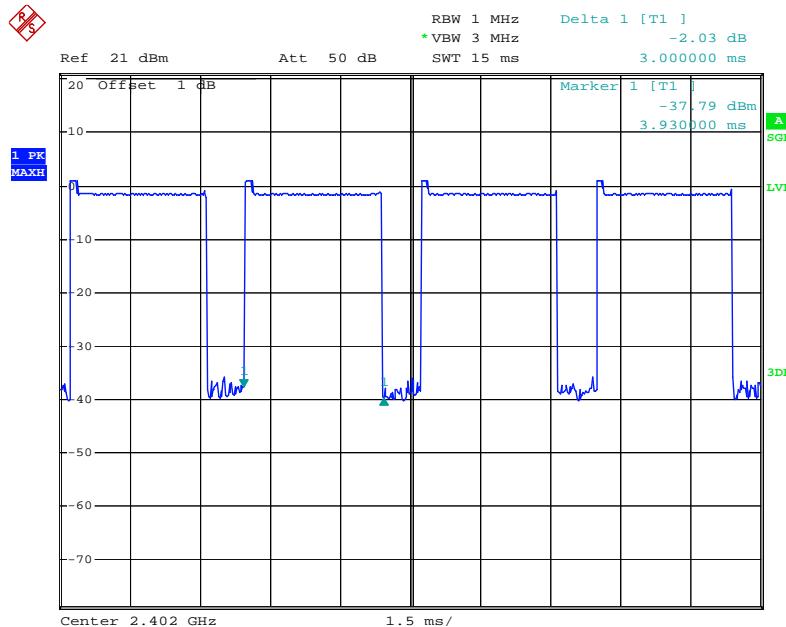
Report No: 14020301-FCC-R1  
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**Test Mode:****Hopping Mode With  $\pi/4$ -DQPSK Modulation**

| Mode   | Channel   | Pulse Width (ms) | Dwell Time (s) | Limit (s) | Result |
|--------|---|------------------|----------------|-----------|--------|
| 2 DH 5 | Low   | 3.000            | 0.32000        | 0.4       | Pass   |
|        | Middle  | 3.000            | 0.32000        | 0.4       | Pass   |
|        | High  | 3.000            | 0.32000        | 0.4       | Pass   |
|        | <b>Note:</b> Dwell time=Pulse Time (ms) $\times$ (1600 $\div$ 6 $\div$ 79) $\times$ 31.6 Second |                  |                |           |        |

Please refer to the following plots.

### Low Channel for 2 DH5



Date: 27.AUG.2014 23:30:42

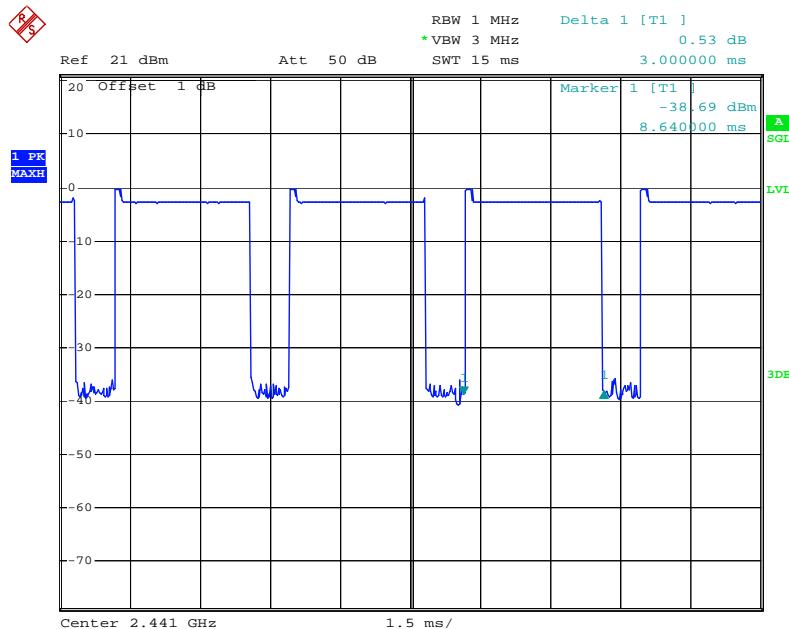
**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

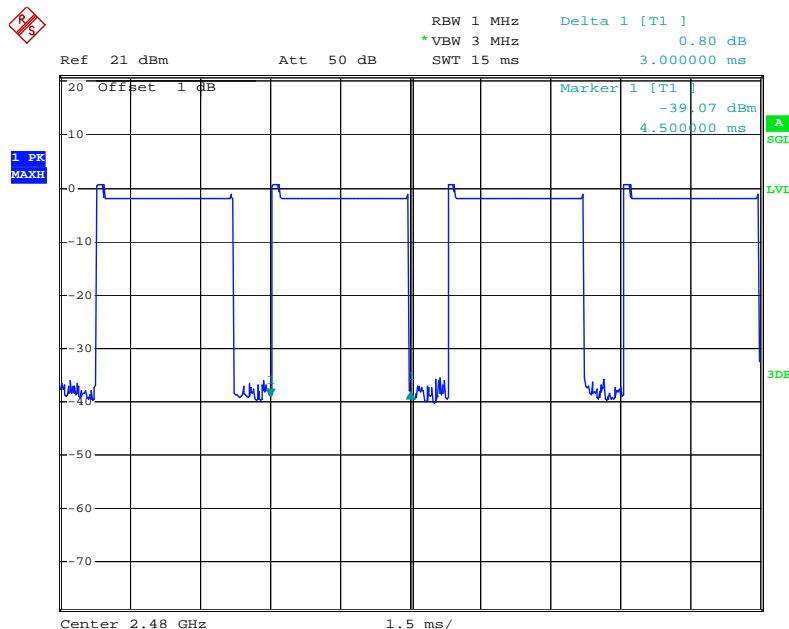
Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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### Middle Channel for 2 DH5



Date: 27.AUG.2014 23:15:59

### High Channel for 2 DH5



Date: 27.AUG.2014 23:31:19

**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

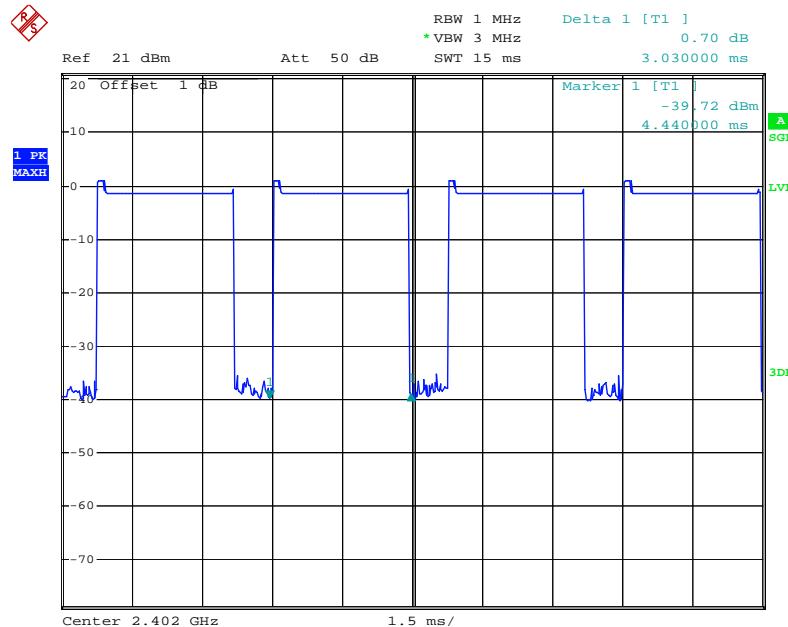
Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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**Test Mode:****Hopping Mode With 8DPSK Modulation**

| Mode   | Channel | Pulse Width (ms) | Dwell Time (s) | Limit (s) | Result |
|--|---------|------------------|----------------|-----------|--------|
| 3 DH 5   | Low     | 3.030            | 0.32320        | 0.4       | Pass   |
|  | Middle  | 3.000            | 0.32000        | 0.4       | Pass   |
|  | High    | 3.030            | 0.32320        | 0.4       | Pass   |
| <i>Note:</i> Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second |         |                  |                |           |        |

Please refer to the following plots.

### Low Channel for 3 DH5



Date: 27.AUG.2014 23:21:29

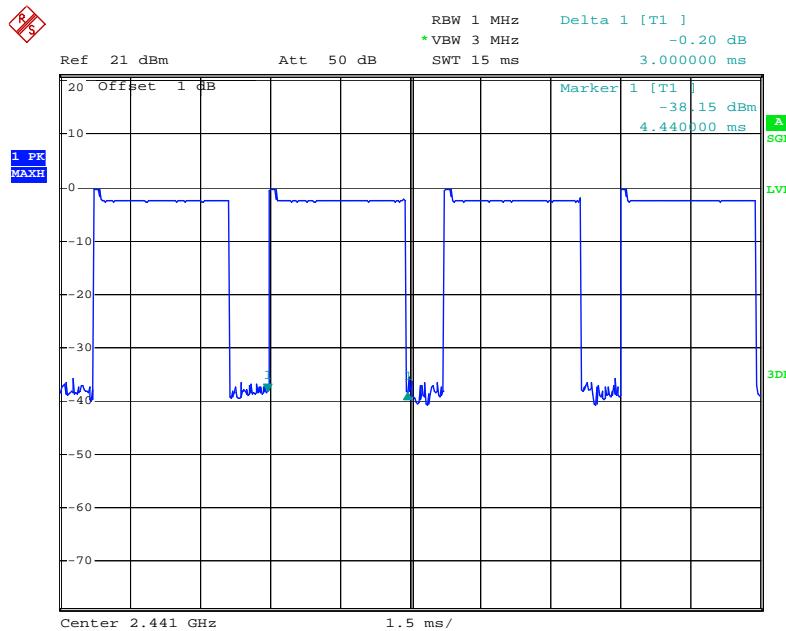
**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

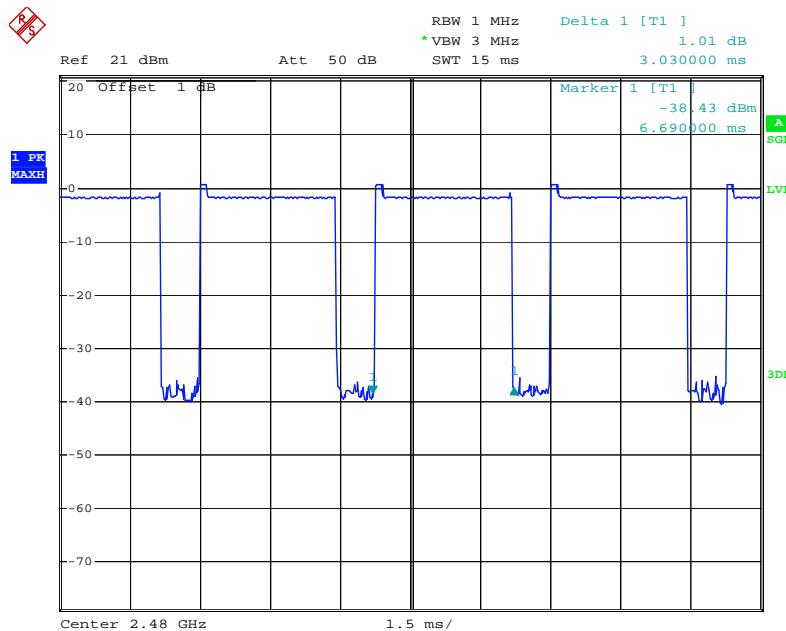
Report No: 14020301-FCC-R1  
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### Middle Channel for 3 DH5



Date: 27.AUG.2014 23:25:28

### High Channel for 3 DH5



Date: 27.AUG.2014 23:28:35

**SIEMIC, INC.**

Accessing global markets

Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14020301-FCC-R1  
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## **5.7 §15.247(b) (1) - Peak Output Power**

1. Conducted Measurement  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5\text{dB}$ .
3. Environmental Conditions      Temperature       $24^\circ\text{C}$   
    Relative Humidity      50%  
    Atmospheric Pressure      1019mbar
4. Test date : August 27, 2014  
Tested By : Ray Zhao

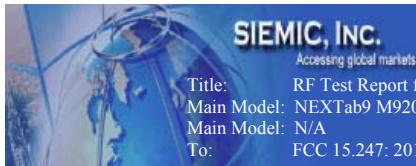
### **Standard Requirement:**

According to §15.247(b)(2), For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band: 0.125watts.

### **Procedures:**

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel, RBW > the 20 dB bandwidth of the emission being measured,  $\text{VBW} \geq \text{RBW}$ , Sweep=auto, Detector function=peak, Trace = max hold.
4. Then set the EUT to transmit at low, middle and high channel and measure the conducted output power separately.

### **Test Result: Pass**



Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

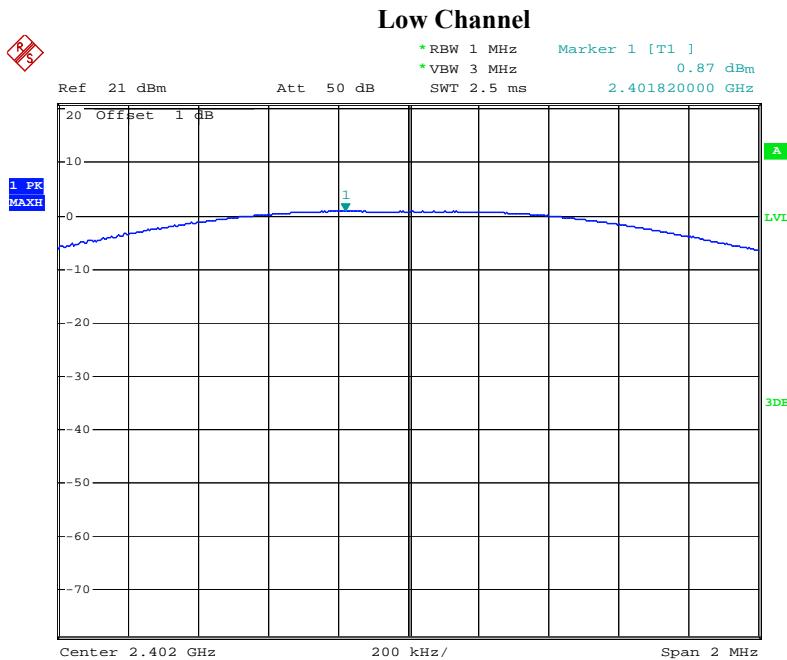
Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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**Test Mode:** **GFSK Transmitting**

| Channel        | Channel frequency (MHz) | Peak output power (dBm) | Power output (mW) | Limit (W) |
|----------------|-------------------------|-------------------------|-------------------|-----------|
| Low channel    | 2402                    | 0.87                    | 1.22              | 1         |
| Middle channel | 2441                    | -0.22                   | 0.95              | 1         |
| High channel   | 2480                    | 0.86                    | 1.22              | 1         |

Please refer to the following plots.

**Note:** The data above was tested in conducted mode.



Date: 27.AUG.2014 22:59:04



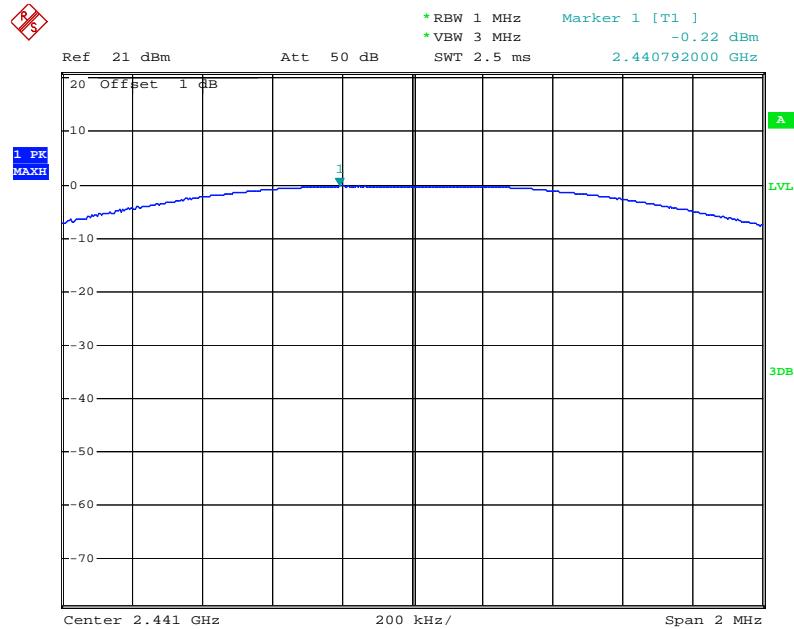
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

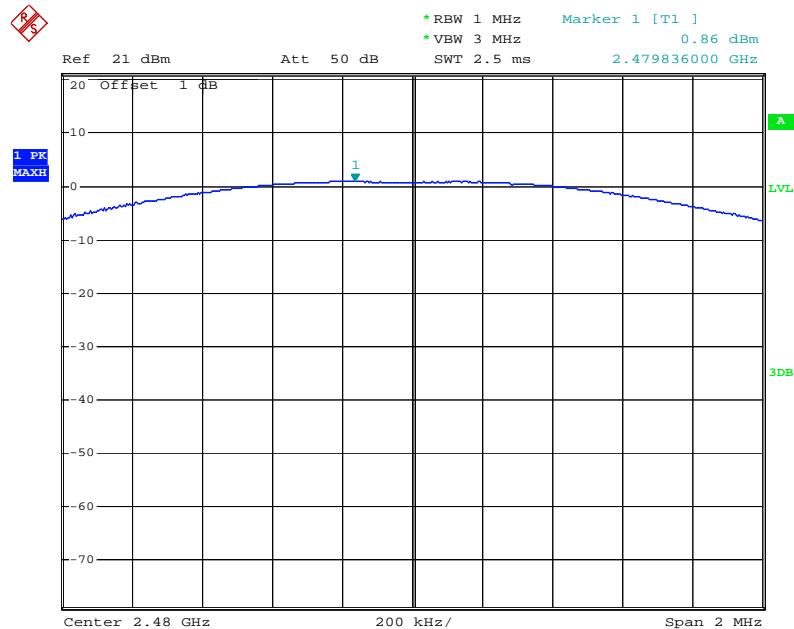
Report No: 14020301-FCC-R1  
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### Middle Channel

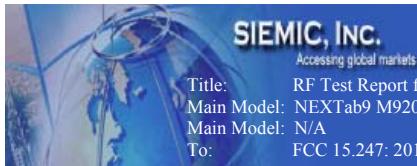


Date: 27.AUG.2014 23:04:21

### High Channel



Date: 27.AUG.2014 23:07:03



Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

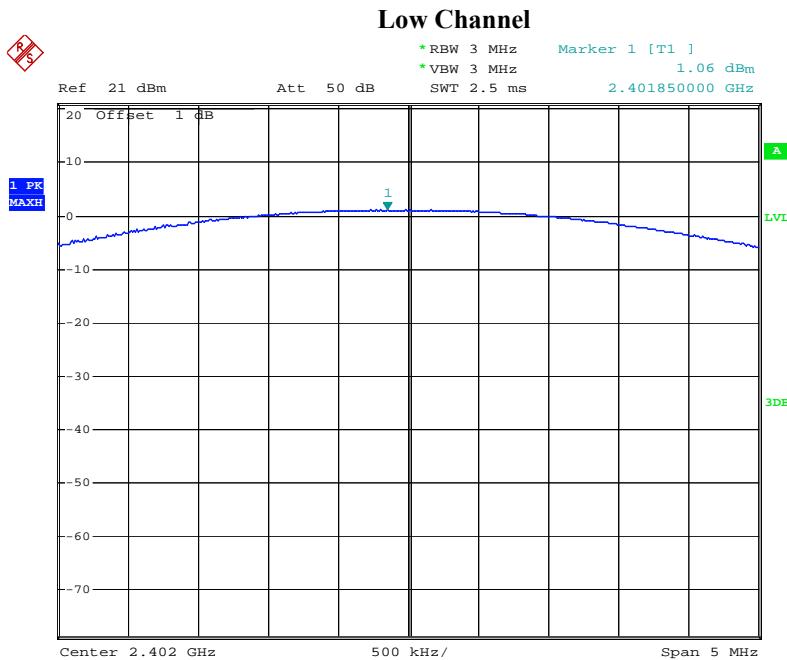
Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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**Test Mode:**  $\pi/4$ -DQPSK Transmitting

| Channel        | Channel frequency (MHz) | Peak output power (dBm) | Power output (mW) | Limit (mW) |
|----------------|-------------------------|-------------------------|-------------------|------------|
| Low channel    | 2402                    | 1.06                    | 1.28              | 125        |
| Middle channel | 2441                    | -0.15                   | 0.97              | 125        |
| High channel   | 2480                    | 0.97                    | 1.25              | 125        |

Please refer to the following plots.

**Note:** The data above was tested in conducted mode.



Date: 27.AUG.2014 23:11:24



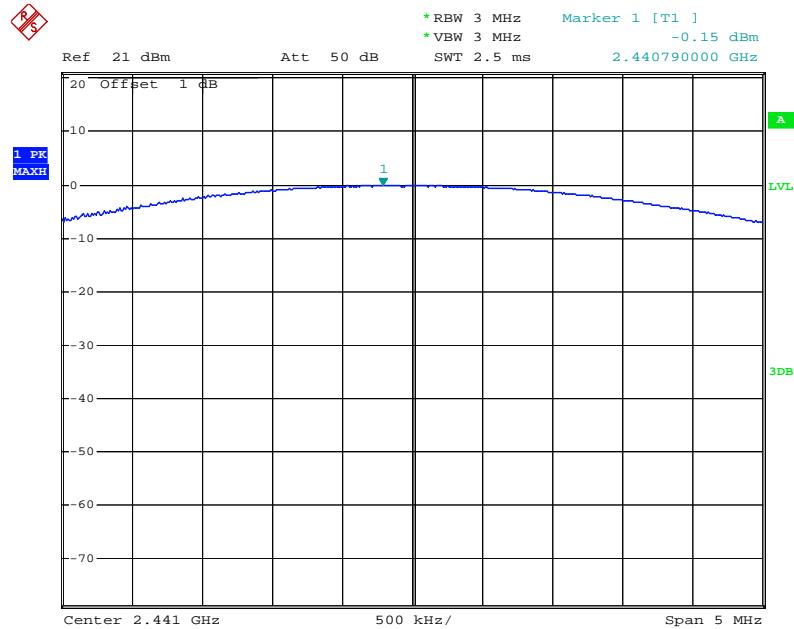
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

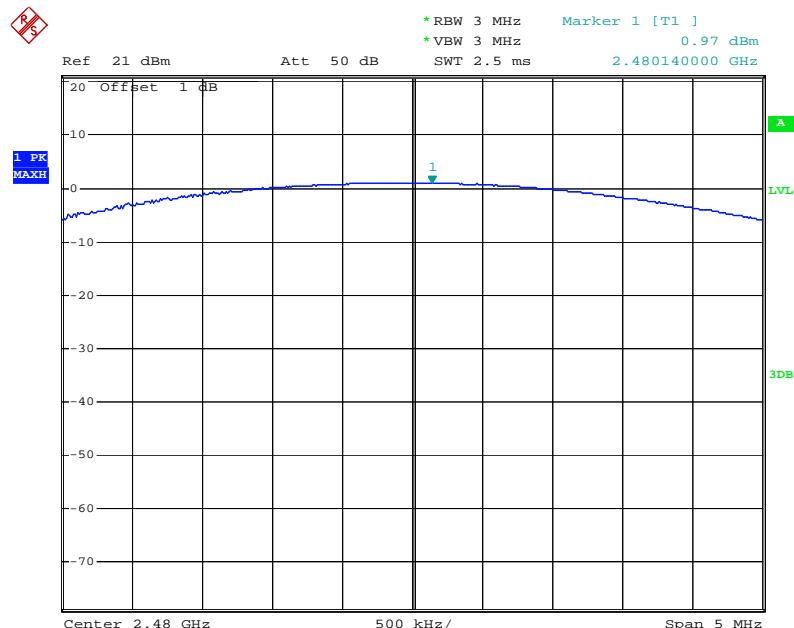
Report No: 14020301-FCC-R1  
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### Middle Channel

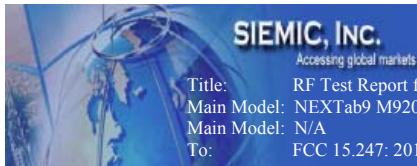


Date: 27.AUG.2014 23:15:40

### High Channel



Date: 27.AUG.2014 23:19:08



Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

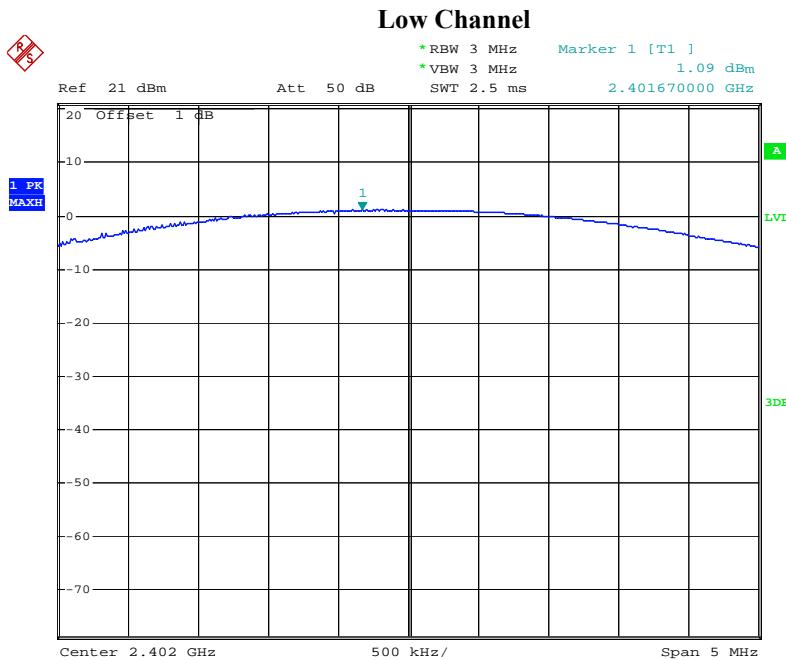
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**Test Mode: 8DPSK Transmitting**

| Channel        | Channel frequency (MHz) | Peak output power (dBm) | Power output (mW) | Limit (mW) |
|----------------|-------------------------|-------------------------|-------------------|------------|
| Low channel    | 2402                    | 1.09                    | 1.29              | 125        |
| Middle channel | 2441                    | -0.11                   | 0.97              | 125        |
| High channel   | 2480                    | 0.89                    | 1.23              | 125        |

Please refer to the following plots.

**Note:** The data above was tested in conducted mode.



Date: 27.AUG.2014 23:21:03



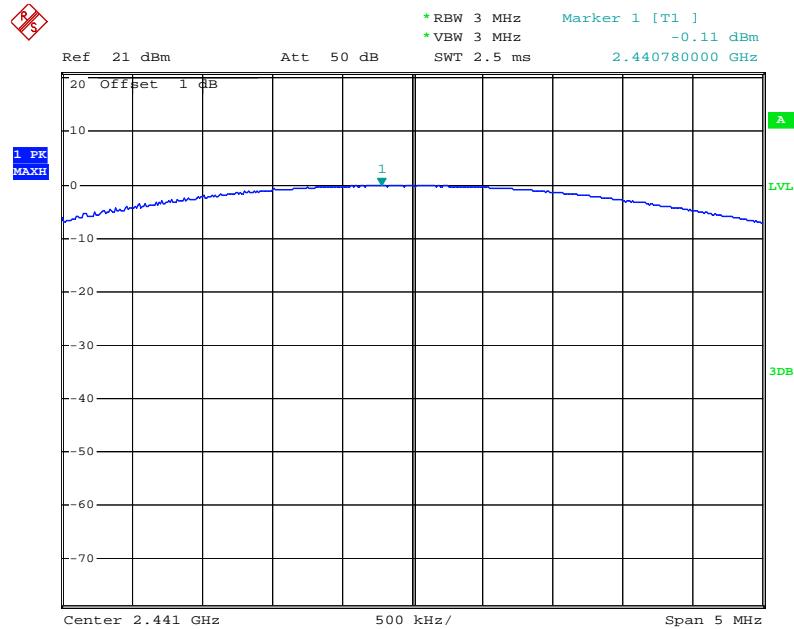
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

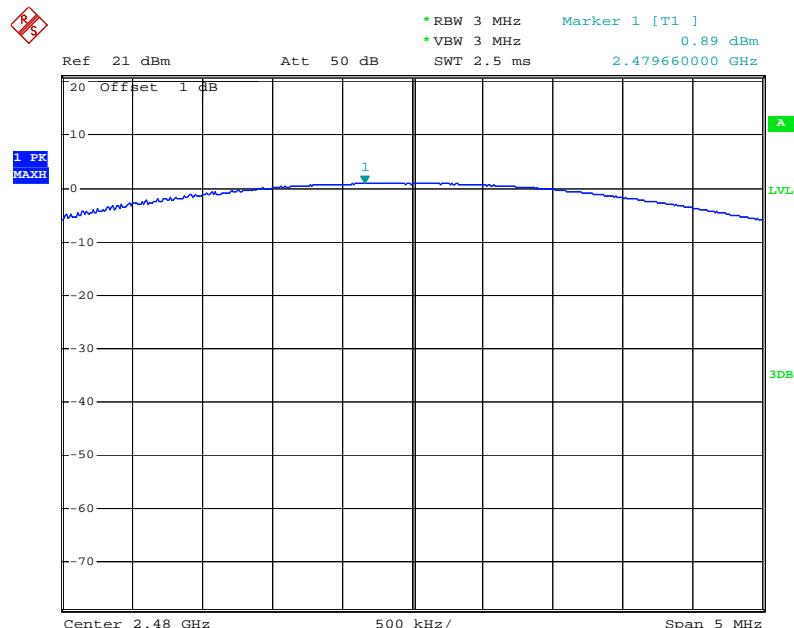
Report No: 14020301-FCC-R1  
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### Middle Channel



Date: 27.AUG.2014 23:25:08

### High Channel



Date: 27.AUG.2014 23:28:46



**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14020301-FCC-R1  
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## **5.8 §15.247(d) - Band Edge**

### **Standard Requirement:**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### **Procedures: (Radiated Method Only)**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below:
  - a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
  - b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
  - c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth for Average detection (AV) as below at frequency above 1GHz.  
 1/T (Duty cycle < 98%)       10 Hz (Duty cycle > 98%)
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

### **Note:**

For Hopping device, should test hopping mode and CW Tx mode separately. For hopping mode, find out the worst points outside the frequency band firstly, then set the worst points as the center frequency, use above average 3 (c) spectrum analyzer set, find out the final worst average value separately.

### **Test Result: Pass**



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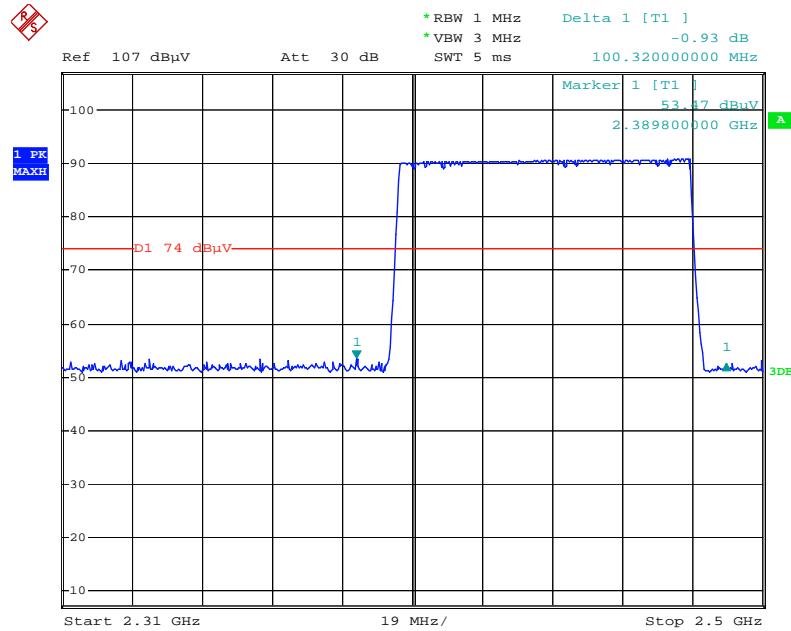
Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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**Test Mode:**

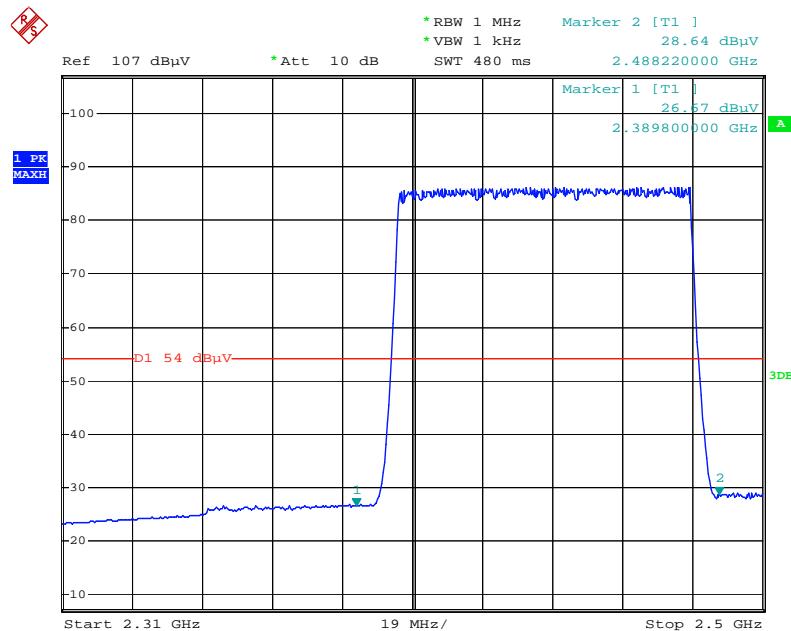
**GFSK Hopping& Transmitting**

### GFSK-hopping-PK



Date: 28.AUG.2014 16:51:29

### GFSK-hopping-Av



Date: 29.AUG.2014 15:42:43

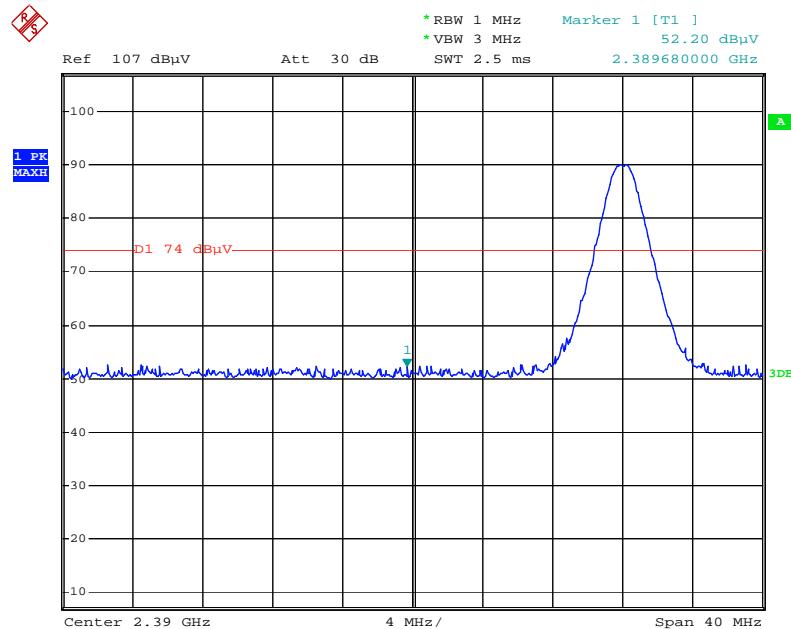
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

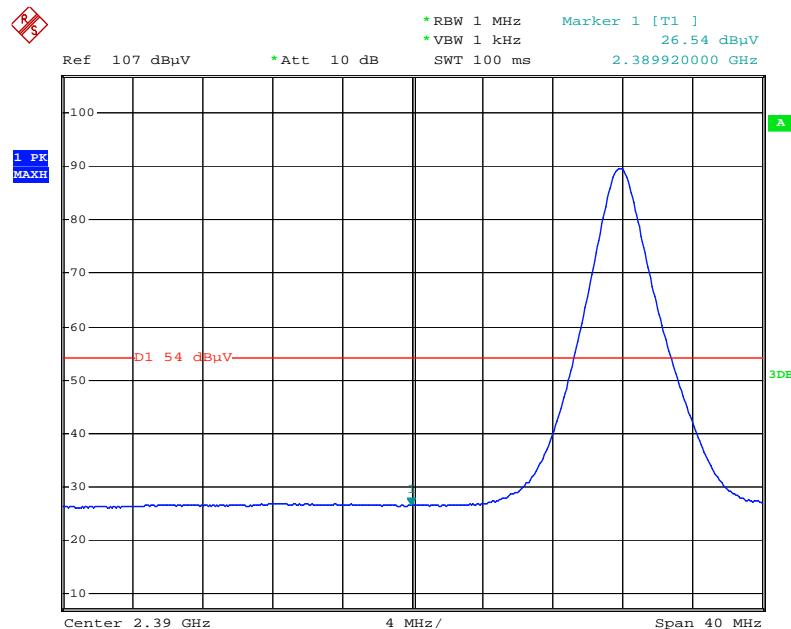
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### GFSK Left Side PK



Date: 28.AUG.2014 17:13:54

### GFSK Left Side Av



Date: 29.AUG.2014 15:59:01

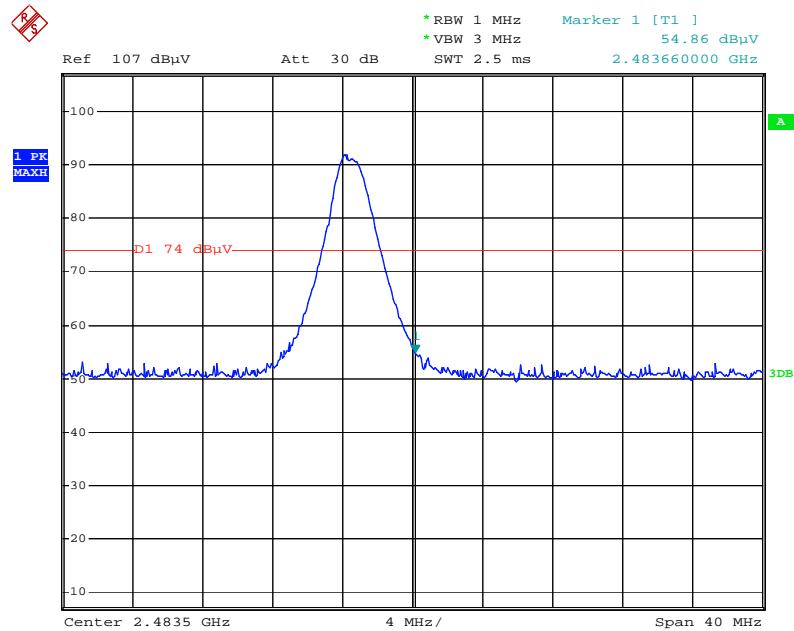
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

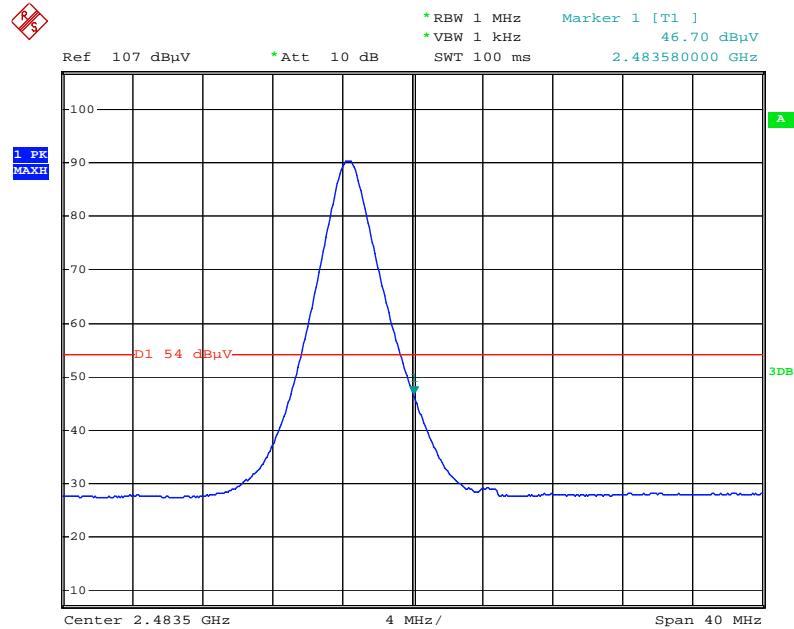
Report No: 14020301-FCC-R1  
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### GFSK Right Side PK



Date: 28.AUG.2014 17:21:13

### GFSK Right Side Ave



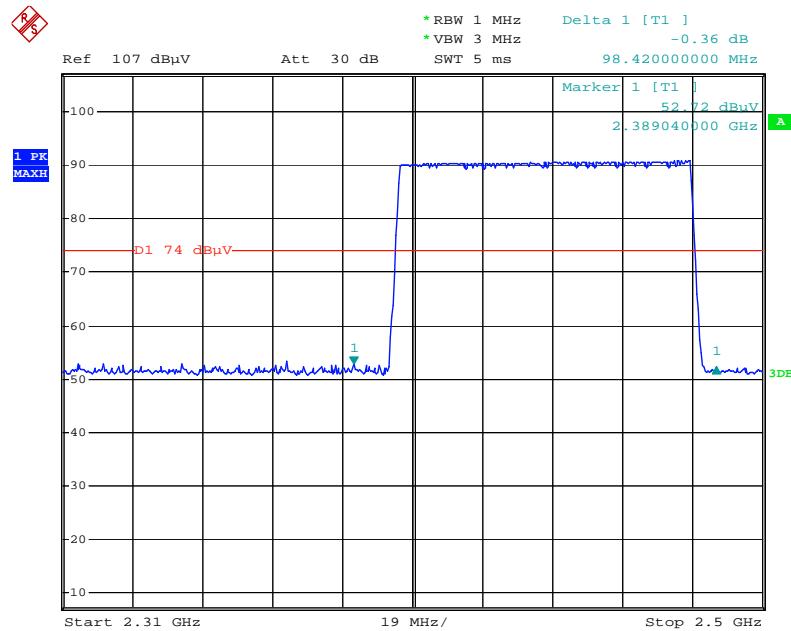
Date: 29.AUG.2014 16:01:00

**SIEMIC, INC.**

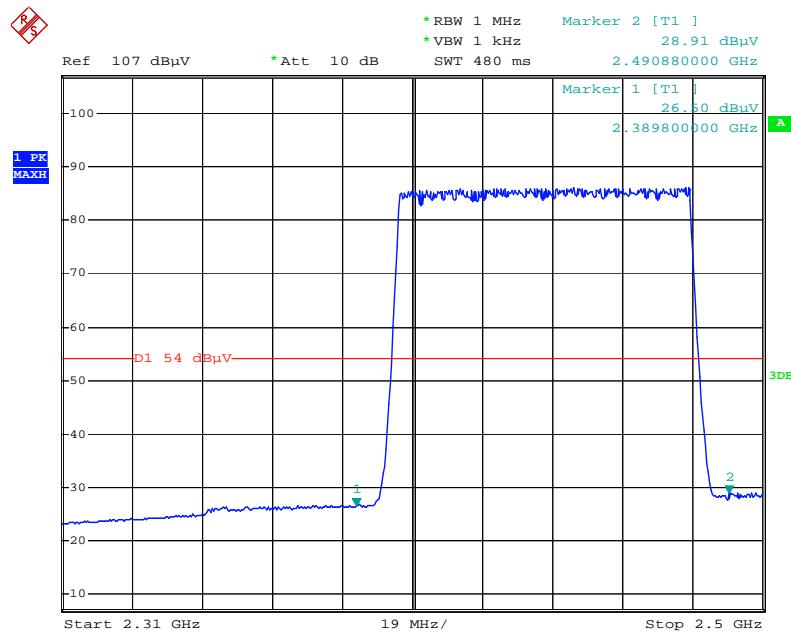
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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14020301-FCC-R1  
Issue Date: August 29, 2014  
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**Test Mode:** **$\pi/4$ DQPSK Hopping& Transmitting** **$\pi/4$ DQPSK -hopping-PK**

Date: 28.AUG.2014 16:52:40

 **$\pi/4$ DQPSK -hopping-Av**

Date: 29.AUG.2014 15:46:28

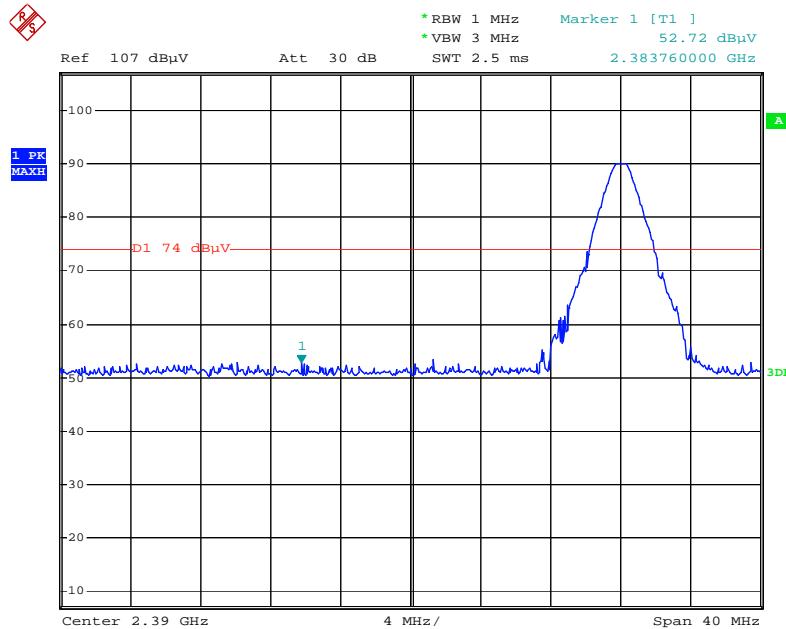
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

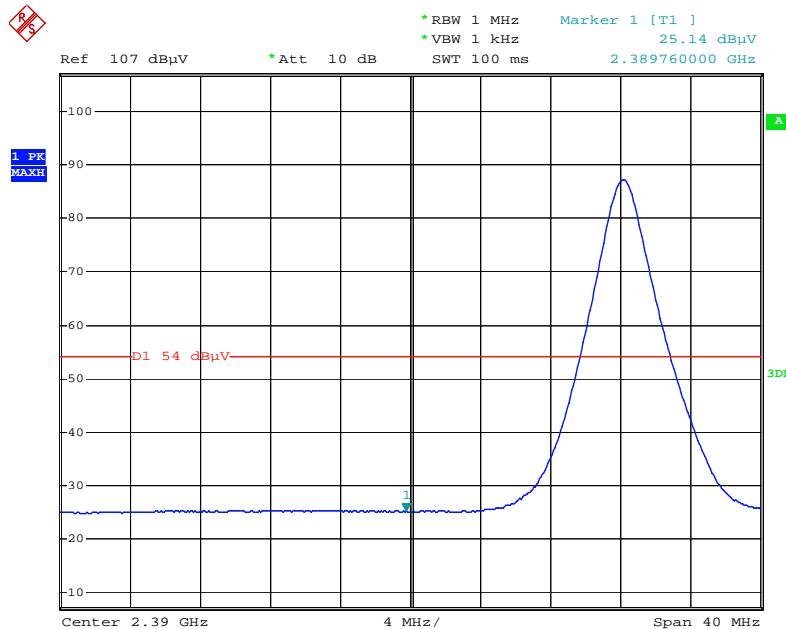
Report No: 14020301-FCC-R1  
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### $\pi/4$ DQPSK -Left Side PK



Date: 28.AUG.2014 17:14:30

### $\pi/4$ DQPSK - Left Side Av



Date: 29.AUG.2014 15:59:51

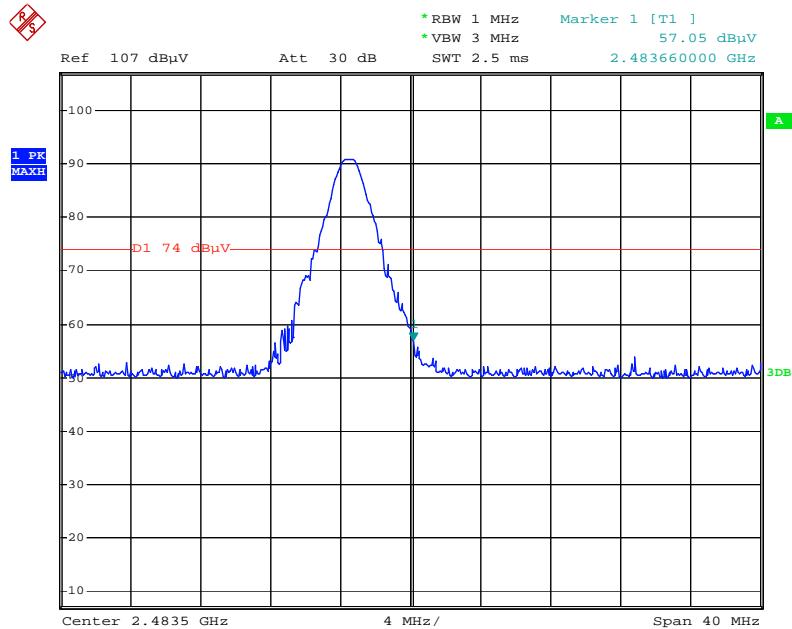
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

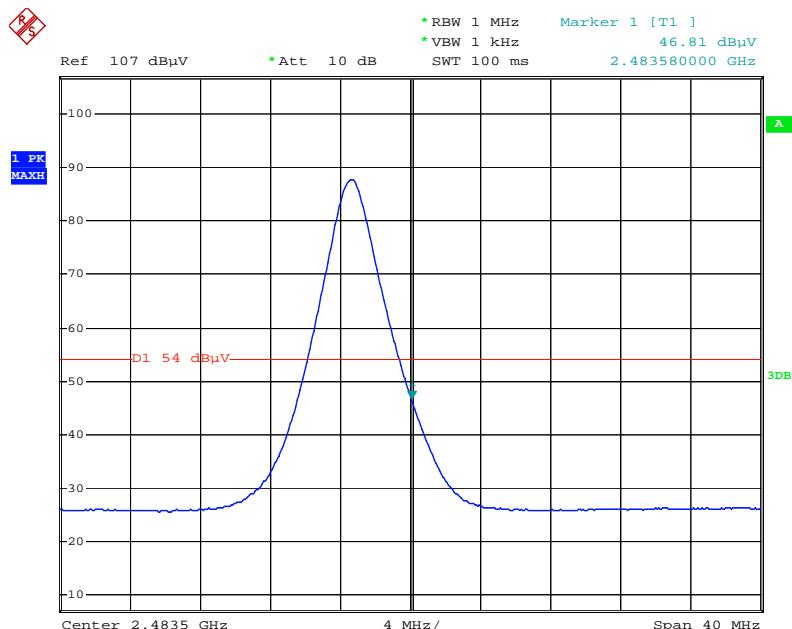
Report No: 14020301-FCC-R1  
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### $\pi/4$ DQPSK- Right Side PK



Date: 28.AUG.2014 17:20:19

### $\pi/4$ DQPSK - Right Side Ave



Date: 29.AUG.2014 16:01:26



**SIEMIC, INC.**

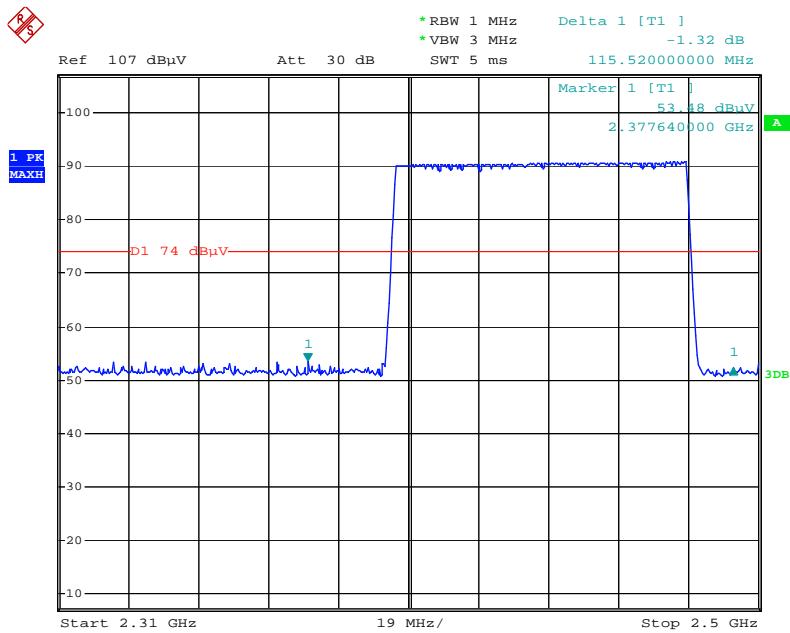
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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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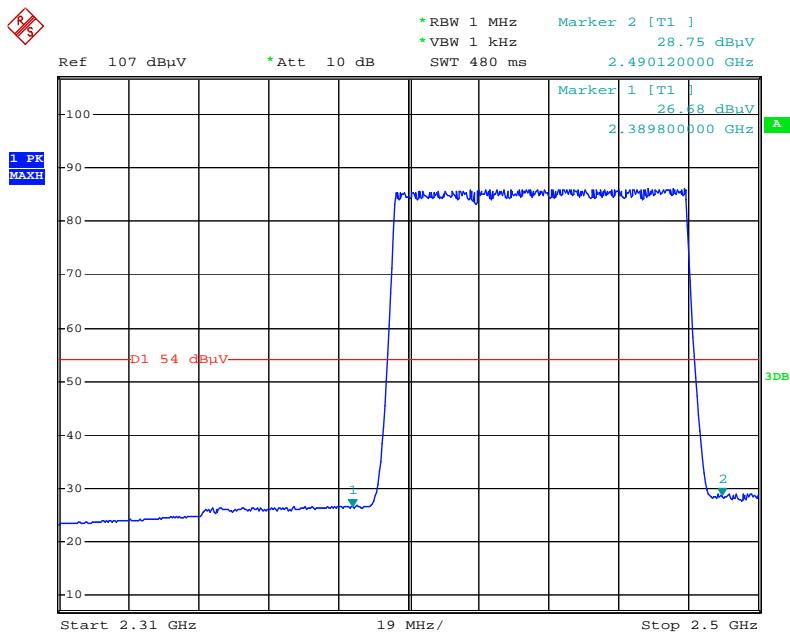
**Test Mode: 8DPSK Hopping& Transmitting**

### 8DPSK-hopping-PK



Date: 28.AUG.2014 16:53:33

### 8DPSK -hopping-Av



Date: 29.AUG.2014 15:57:35



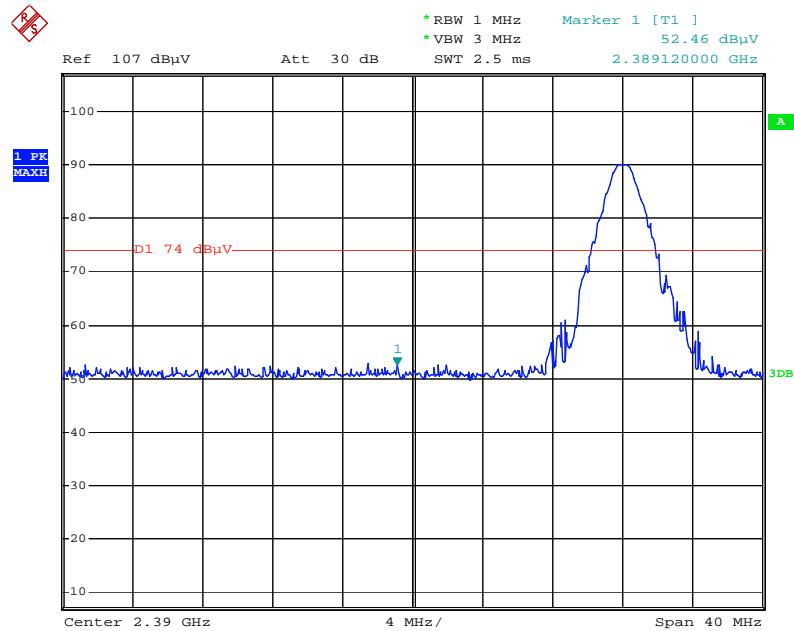
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

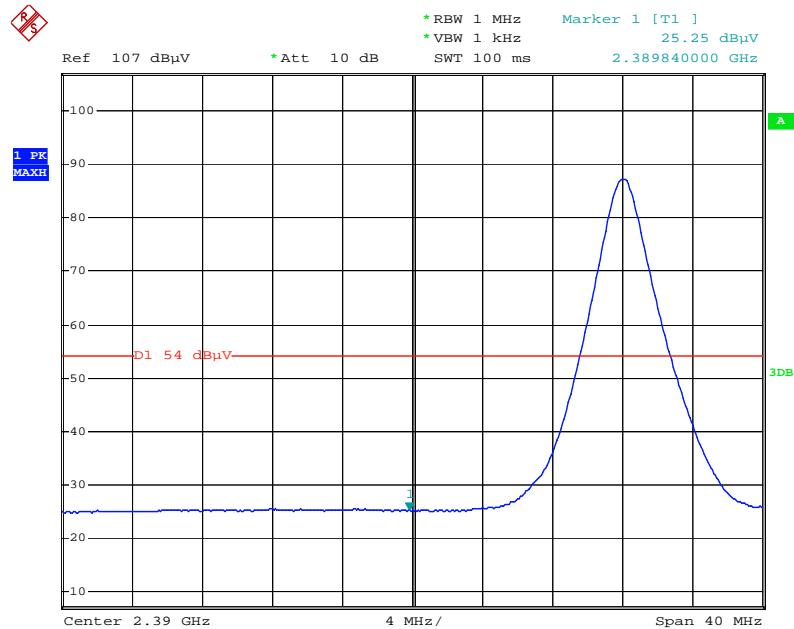
Report No: 14020301-FCC-R1  
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## 8DPSK Left Side PK



Date: 28.AUG.2014 17:15:08

## 8DPSK Left Side Av



Date: 29.AUG.2014 16:00:12

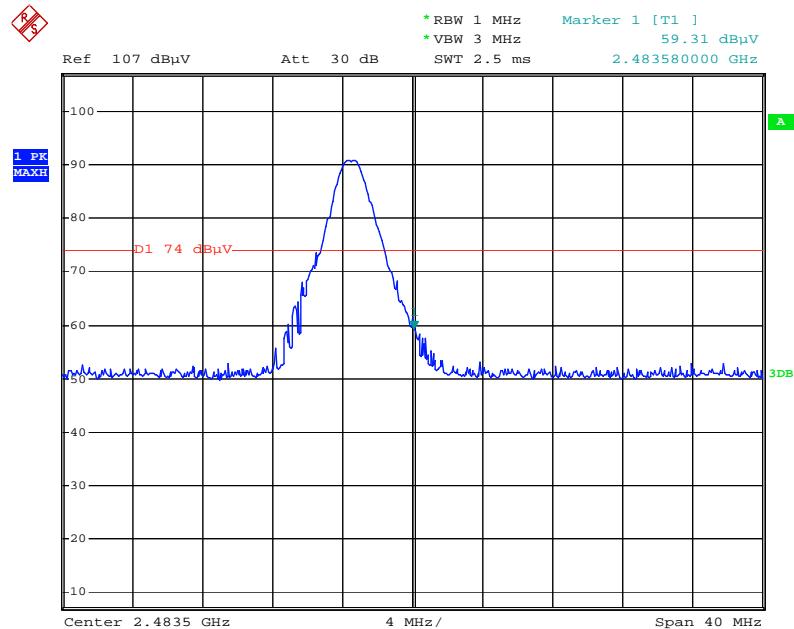
**SIEMIC, INC.**

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Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
To: FCC 15.247: 2013, ANSI C63.4: 2009

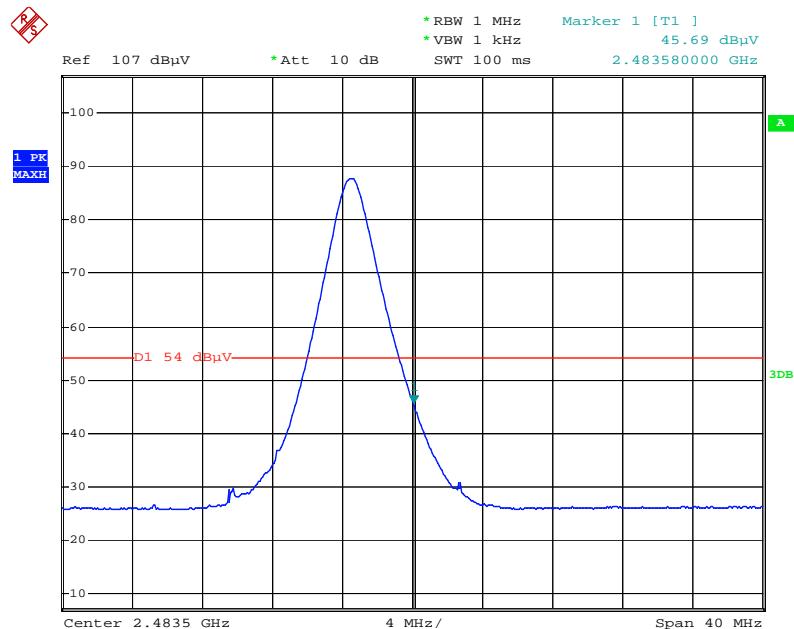
Report No: 14020301-FCC-R1  
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### 8DPSK -Right Side PK



Date: 28.AUG.2014 17:19:30

### 8DPSK -Right Side Ave



Date: 29.AUG.2014 16:01:49

**SIEMIC, INC.**

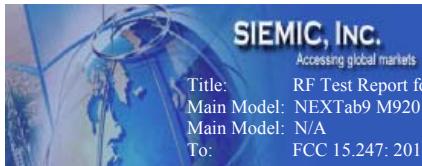
Accessing global markets

Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
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## Annex A. TEST INSTRUMENT

| Instrument                                  | Model                  | Serial #   | Calibration Date | Calibration Due Date |
|---|------------------------|------------|------------------|----------------------|
| <b>AC Line Conducted Emissions</b>          |                        |            |                  |                      |
| R&S EMI Test Receiver                       | ESPI3                  | 101216     | 09/27/2013       | 09/26/2014           |
| V-LISN                                      | ESH3-Z5                | 838979/005 | 09/27/2013       | 09/26/2014           |
| Com-Power Transient Limiter                 | LIT-153                | 531021     | 09/27/2013       | 09/26/2014           |
| SIEMIC Labview Conducted Emissions software | V1.0                   | N/A        | N/A              | N/A                  |
| <b>Radiated Emissions</b>                   |                        |            |                  |                      |
| Hp Spectrum Analyzer                        | 8563E                  | 3821A09023 | 09/27/2013       | 09/26/2014           |
| R&S EMI Receiver                            | ESPI3                  | 101216     | 09/27/2013       | 09/26/2014           |
| Antenna (30MHz~6GHz)                        | JB6                    | A121411    | 04/15/2014       | 04/14/2015           |
| EMCO Horn Antenna (1~18GHz)                 | 3115                   | N/A        | 10/09/2013       | 10/08/2014           |
| Horn Antenna (18~40GHz)                     | AH-840                 | 101013     | 04/22/2014       | 04/21/2015           |
| Microwave Pre-Amp (18~40GHz)                | PA-840                 | 181250     | 05/29/2014       | 05/28/2015           |
| Hp Agilent Pre-Amplifier                    | 8447F                  | 1937A01160 | 10/27/2013       | 10/26/2014           |
| MITEQ Pre-Amplifier (0.1 ~ 18GHz)           | AMF-7D-00101800-30-10P | 1451709    | 10/27/2013       | 10/26/2014           |
| Chamber                                     | 3m                     | N/A        | 04/13/2014       | 04/12/2015           |
| SIEMIC Labview Radiated Emissions software  | V1.0                   | N/A        | N/A              | N/A                  |



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## Annex B. EUT AND TEST SETUP PHOTOGRAPHS

### Annex B.i. Photograph 1: EUT External Photo



Whole Package - Top View



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EUT - Front View



EUT - Rear View



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EUT - Top View



EUT - Bottom View



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EUT - Left View



EUT - Right View



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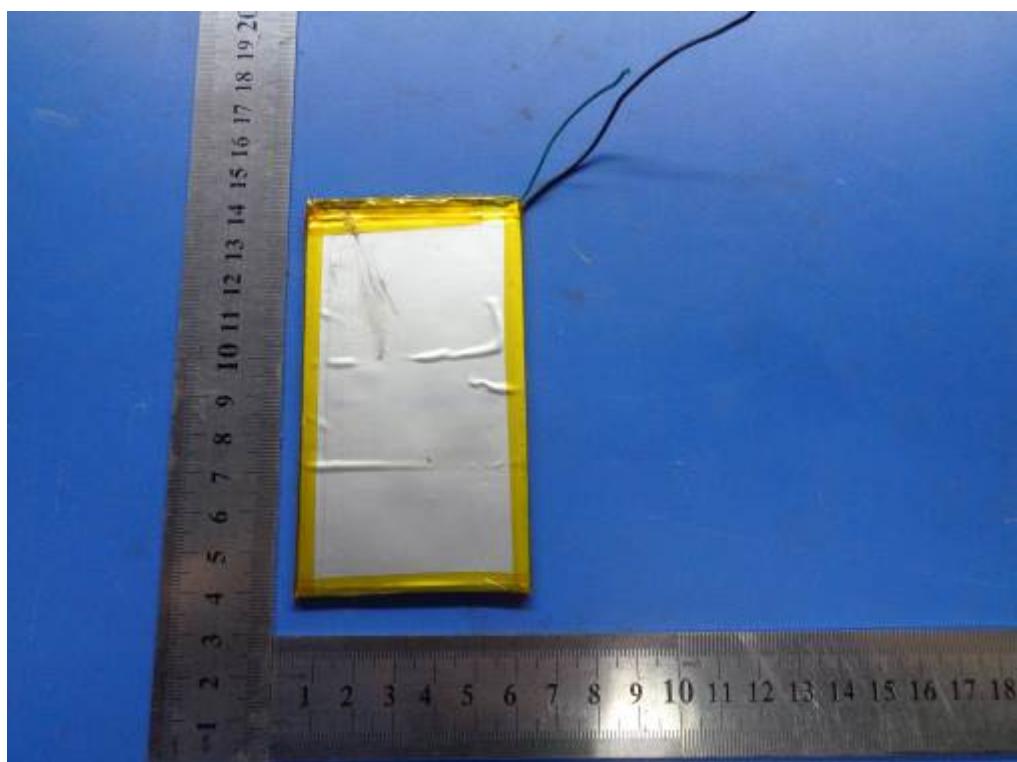
Title: RF Test Report for Tablet PC  
Main Model: NEXTab9 M920  
Main Model: N/A  
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## **Annex B.ii. Photograph 2: EUT Internal Photos**



Cover Off - Front View

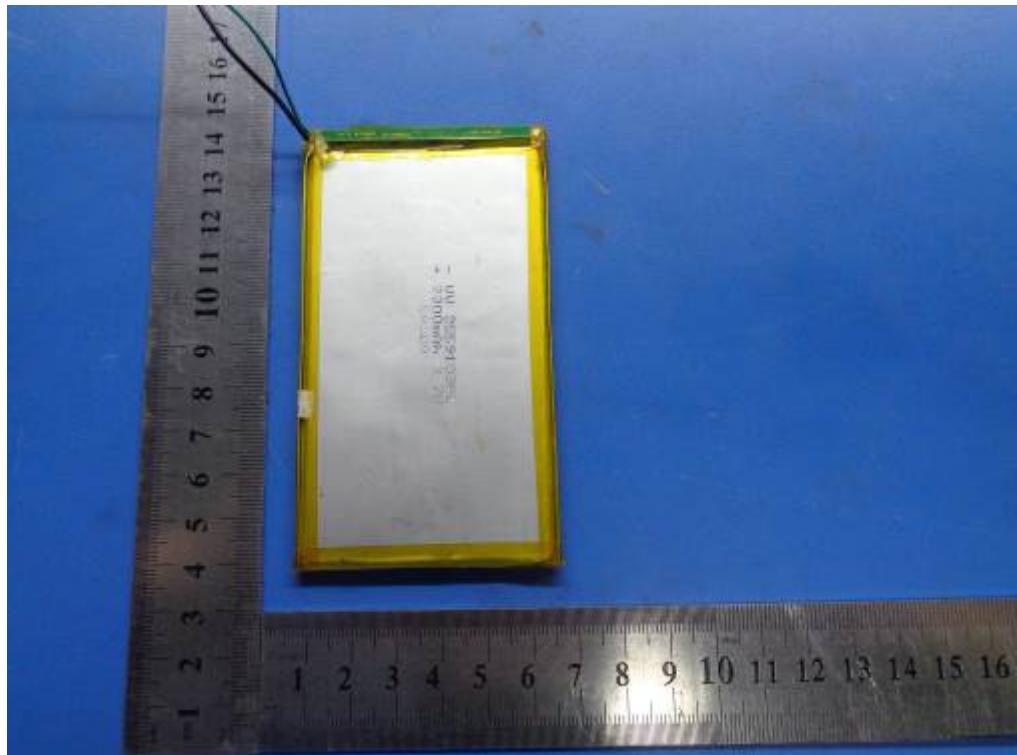


Battery - Top View

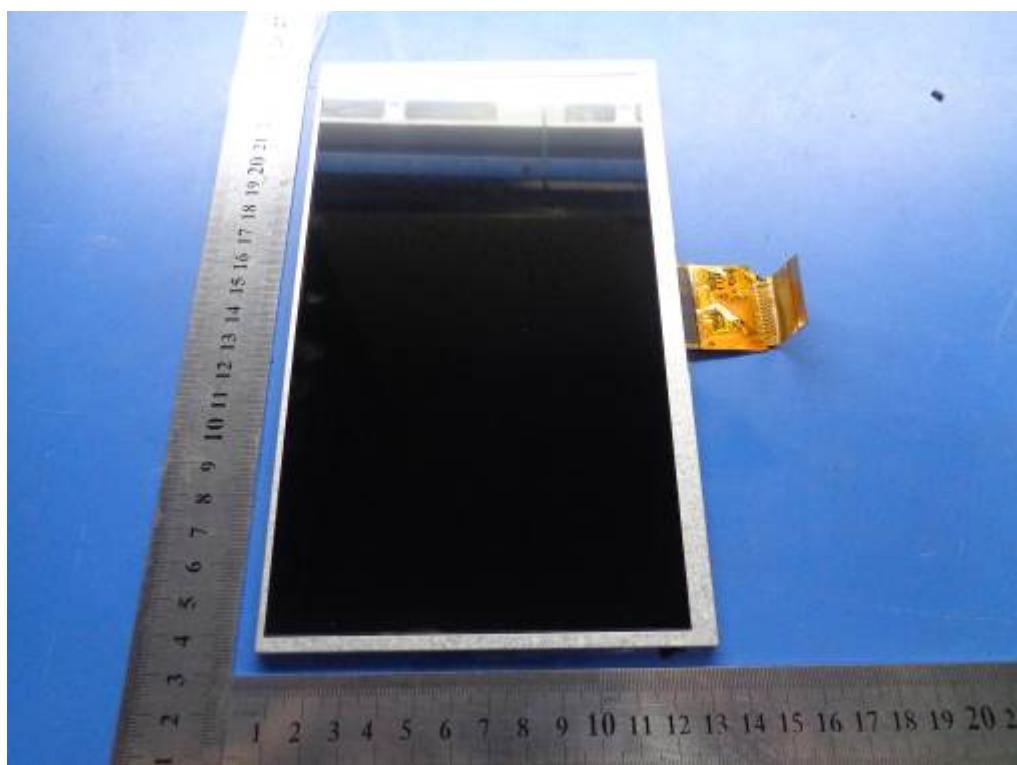


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Battery - Bottom View



LCD - Top View

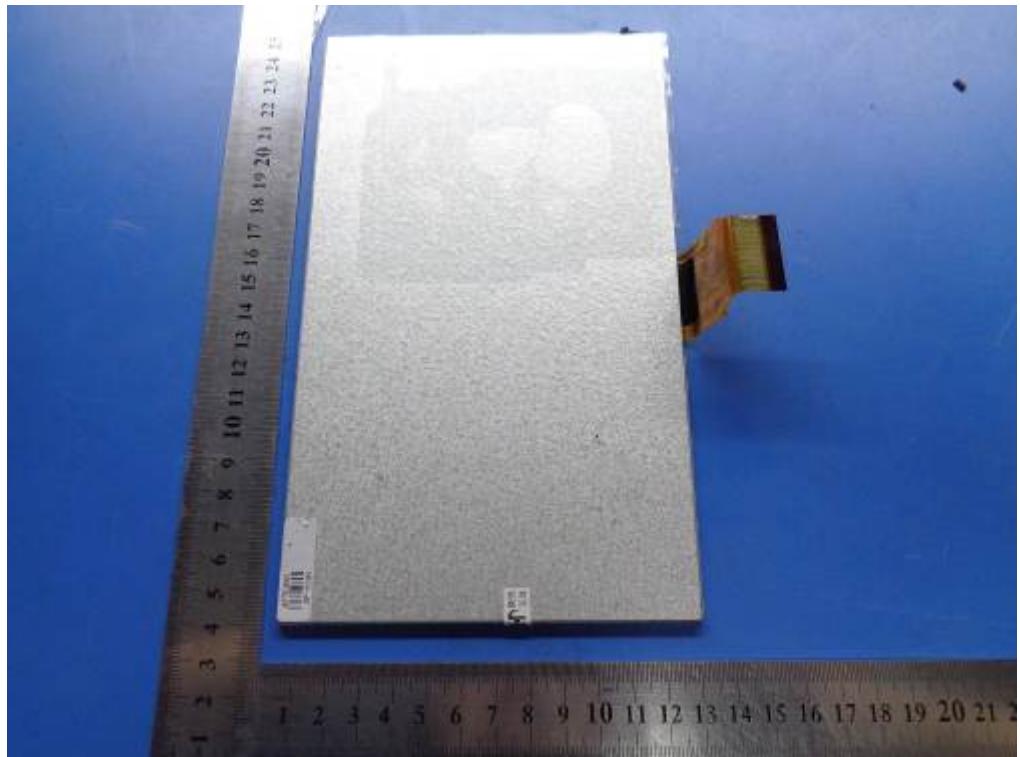


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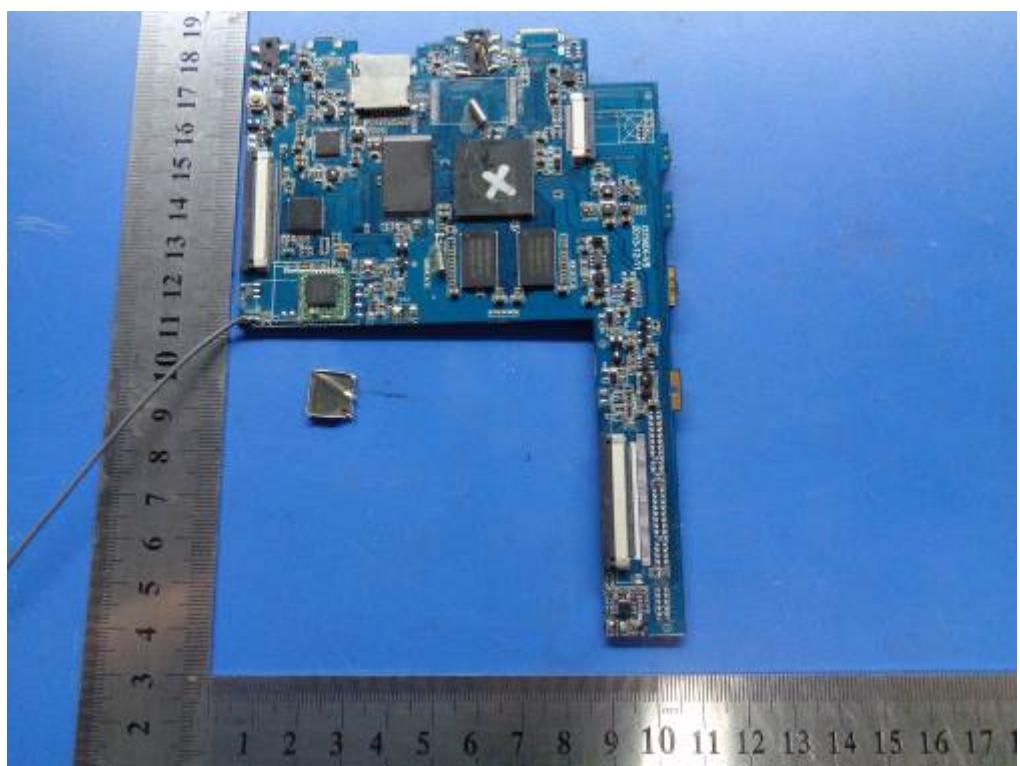
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LCD - Bottom View



EUT PCB - Top View

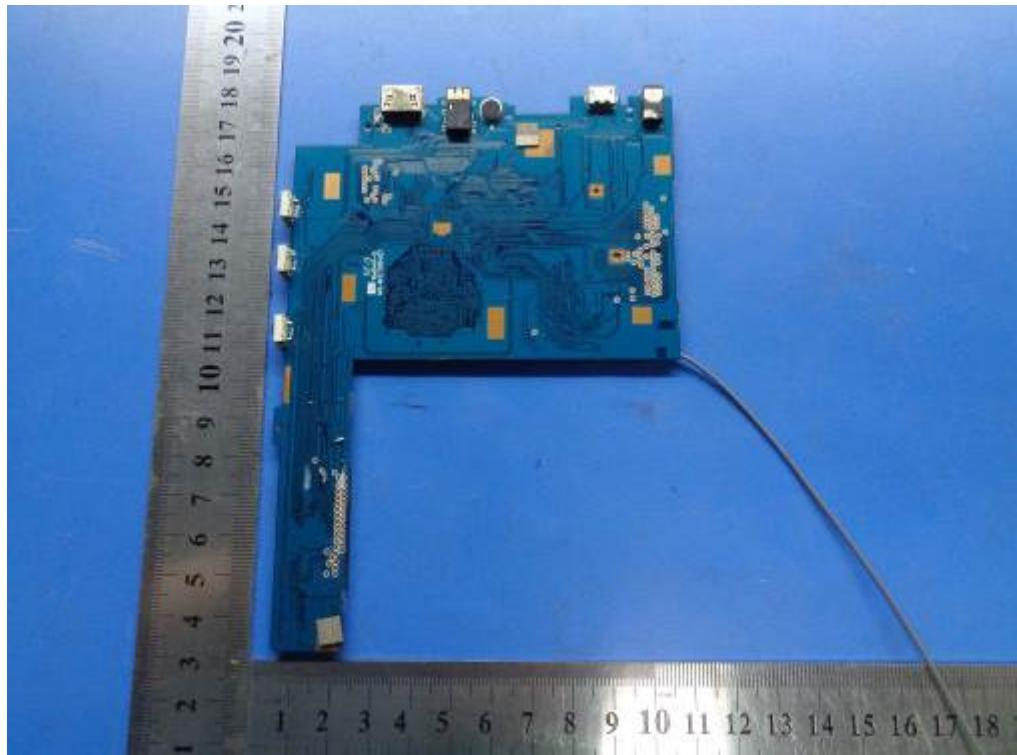


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EUT PCB - Bottom View



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### Annex B.iii. Photograph 3: Test Setup Photo



Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View

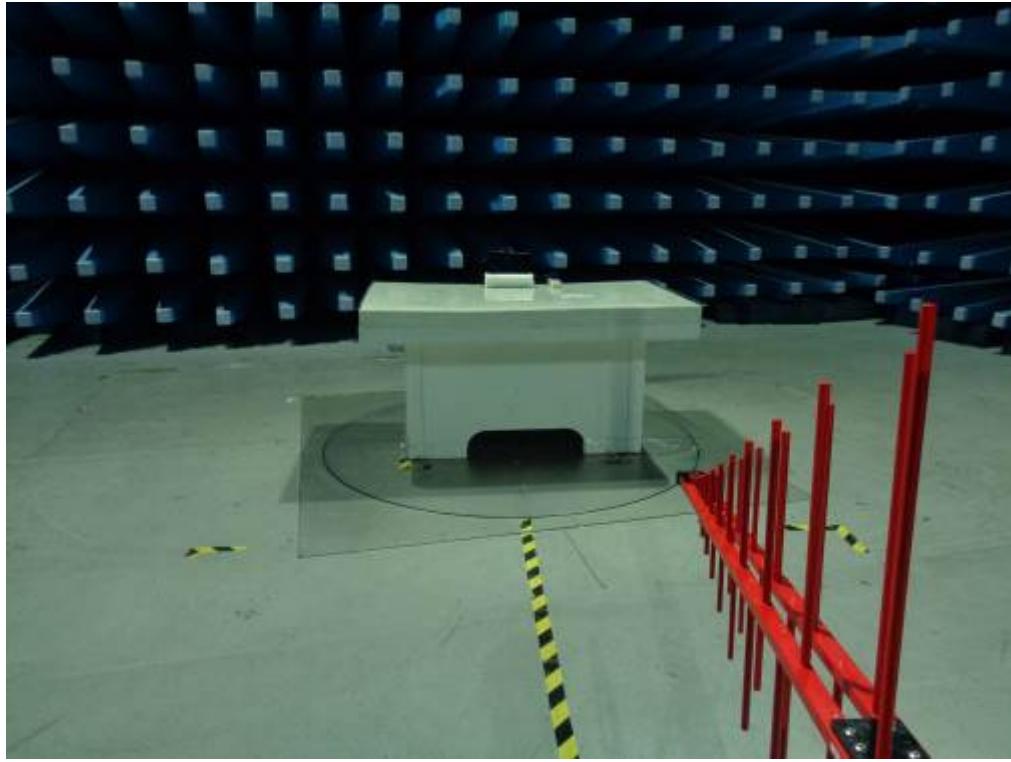


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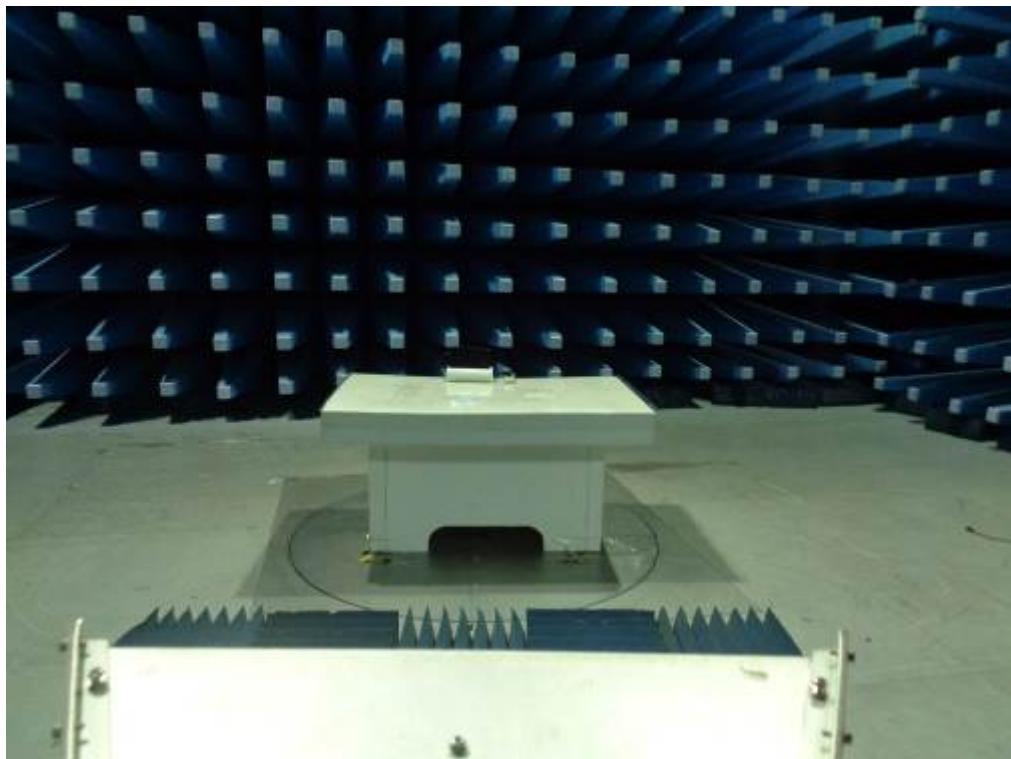
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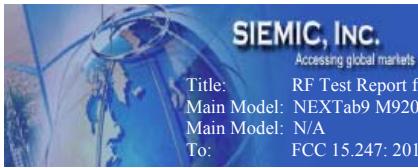
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Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz –Front View



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## **Annex C. TEST SETUP AND SUPPORTING EQUIPMENT**

### **EUT TEST CONDITIONS**

#### **Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

| <b>Equipment Description<br/>(Including Brand Name)</b> | <b>Model &amp; Serial Number</b> | <b>Cable Description<br/>(List Length, Type &amp; Purpose)</b> |
|---|----------------------------------|--|
| N/A   | N/A                              | N/A  |



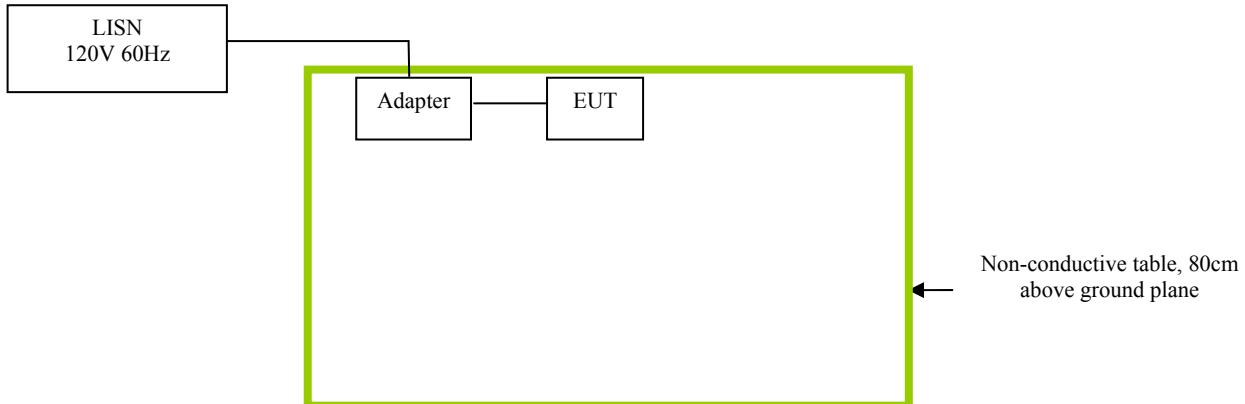
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## Block Configuration Diagram for AC Line Conducted Emissions





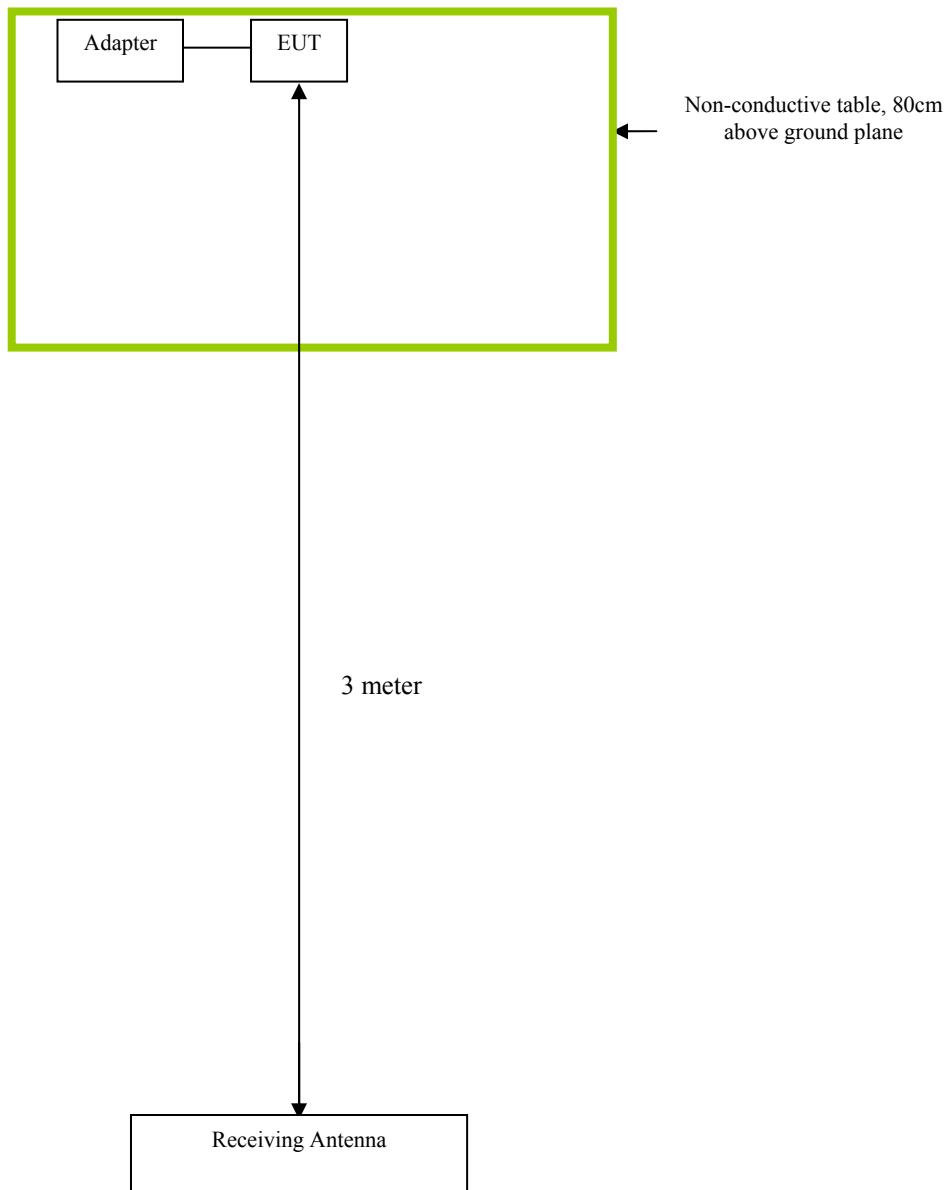
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## Block Configuration Diagram for Radiated Emissions





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### **Annex C.ii. EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

| Test              | Description Of Operation   |
|-------------------|--|
| Emissions Testing | The EUT was continuously transmitting to stimulate the worst case. |



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## **Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST**

**Please see attachment**



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## **Annex E. DECLARATION OF SIMILARITY**

**N/A**