TEST REPORT FOR
BLUETOOTH RF-CONFORMANCE TESTING

Report No: SRTC2018-9004(S)-18040801(A)-2
Product Name: Module
Product Model: SIM800C
Applicant: Shanghai SIMCom Wireless Solutions Ltd
Manufacturer: Shanghai SIMCom Wireless Solutions Ltd
Specification: Radio Frequency (RF) Bluetooth Test Specification

The State Radio_monitoring_center Testing Center (SRTC)
15th Building, No.30 Shixing Street, Shijingshan District,
Beijing, P.R.China
Tel: 86-10-57996123   Fax: 86-10-57996388
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1 GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

<table>
<thead>
<tr>
<th>Company:</th>
<th>The State Radio_monitoring_center Testing Center (SRTC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>15th Building, No.30 Shixing Street, Shijingshan District</td>
</tr>
<tr>
<td>City:</td>
<td>Beijing</td>
</tr>
<tr>
<td>Country or Region:</td>
<td>P.R.China</td>
</tr>
<tr>
<td>Contacted person:</td>
<td>Peng Zhen</td>
</tr>
<tr>
<td>Tel:</td>
<td>+86 10 57996123</td>
</tr>
<tr>
<td>Fax:</td>
<td>+86 10 57996388</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:pengzhen@srtc.org.cn">pengzhen@srtc.org.cn</a></td>
</tr>
</tbody>
</table>

1.3 Applicant’s details

<table>
<thead>
<tr>
<th>Company:</th>
<th>Shanghai SIMCom Wireless Solutions Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>SIM Technology Building, No. 633, Jinzhong Road, Changning District, Shanghai P.R.China</td>
</tr>
<tr>
<td>City:</td>
<td>Shanghai</td>
</tr>
<tr>
<td>Country or Region:</td>
<td>P.R.China</td>
</tr>
<tr>
<td>Contacted person:</td>
<td>Yi Liu</td>
</tr>
<tr>
<td>Tel:</td>
<td>18616707147</td>
</tr>
<tr>
<td>Fax:</td>
<td>---</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:liuyi@sunseagroup.com">liuyi@sunseagroup.com</a></td>
</tr>
</tbody>
</table>

1.4 Manufacturer's details

<table>
<thead>
<tr>
<th>Company:</th>
<th>Shanghai SIMCom Wireless Solutions Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>SIM Technology Building, No. 633, Jinzhong Road, Changning District, Shanghai P.R.China</td>
</tr>
<tr>
<td>City:</td>
<td>Shanghai</td>
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<tr>
<td>Country or Region:</td>
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</tr>
<tr>
<td>Contacted person:</td>
<td>Yi Liu</td>
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<tr>
<td>Tel:</td>
<td>18616707147</td>
</tr>
<tr>
<td>Fax:</td>
<td>---</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:liuyi@sunseagroup.com">liuyi@sunseagroup.com</a></td>
</tr>
</tbody>
</table>
1.5 Test Environment

| Date of Receipt of test sample at SRTC: | 2018.4.8 |
| Testing Start Date: | 2018.4.8 |
| Testing End Date: | 2018.4.20 |

<table>
<thead>
<tr>
<th>Environmental Data:</th>
<th>Temperature (°C)</th>
<th>Humidity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient:</td>
<td>25</td>
<td>38</td>
</tr>
<tr>
<td>Maximum Extreme:</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Minimum Extreme:</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

| Normal Supply Voltage (V d.c.): | 3.8 |
| Maximum Extreme Supply Voltage (V d.c.): | --- |
| Minimum Extreme Supply Voltage (V d.c.): | --- |

PIXIT: See annex B
Conformance log reference: Refer to LOG documents
Retention date for log reference: 5 years
## 2 DESCRIPTION OF THE EUT

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>Module</td>
</tr>
<tr>
<td>Product Model:</td>
<td>SIM800C</td>
</tr>
<tr>
<td>Software Revision:</td>
<td>R14.18</td>
</tr>
<tr>
<td>Hardware Revision:</td>
<td>V1.02</td>
</tr>
<tr>
<td>Bluetooth Address:</td>
<td>000000005AAD</td>
</tr>
<tr>
<td>PICS:</td>
<td>See Annex A</td>
</tr>
<tr>
<td>Description of EUT:</td>
<td>Module</td>
</tr>
<tr>
<td>Sampling Method:</td>
<td>Sample Delivered</td>
</tr>
</tbody>
</table>
# 3 REFERENCE SPECIFICATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Version</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Frequency(RF)</td>
<td>V 5.0.1</td>
<td>Radio Frequency Bluetooth Test Specification, Revision RF.</td>
</tr>
</tbody>
</table>
4 KEY TO NOTES AND RESULT CODES

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>PASS</td>
<td>Test result shows that the requirements of the relevant specification have been met.</td>
</tr>
<tr>
<td>FAIL</td>
<td>Test result shows that the requirements of the relevant specification have not been met.</td>
</tr>
<tr>
<td>NTNV</td>
<td>Normal voltage, Normal Temperature</td>
</tr>
<tr>
<td>RTSB-A</td>
<td>CTTL-SYSTEMS - RTSB-A Test System</td>
</tr>
<tr>
<td>InterLab</td>
<td>InterLab Bluetooth RF Test Solution</td>
</tr>
</tbody>
</table>
## 5 RESULTS SUMMARY

The following table summarises the test results obtained.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PASS</td>
<td>26</td>
</tr>
<tr>
<td>FAIL</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>26</td>
</tr>
</tbody>
</table>

This Test Report Is Issued by:
Mr. Peng Zhen  
Checked by:
Mr. Sun Yang

Tested by:
Mr. Yu Yacheng  
Issued date: 20180606
### TEST RESULTS

The following tables reflect the requirements of the relevant specification and show the tests performed. Result files verifying these verdicts are available for inspection at SRTC.

<table>
<thead>
<tr>
<th>No.</th>
<th>Test Case Id</th>
<th>Conditions</th>
<th>Verdict</th>
<th>Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>TRMCA01C.- Output Power</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>2.</td>
<td>TRMCA02C.- Power density</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>3.</td>
<td>TRMCA03C.- Power Control</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>4.</td>
<td>TRMCA04C.- TX Output Spectrum - Frequency range</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>5.</td>
<td>TRMCA05C.- TX Output Spectrum - 20 dB Bandwidth</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>6.</td>
<td>TRMCA06C.- TX Output Spectrum - Adjacent channel power</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>7.</td>
<td>TRMCA07C.- Modulation Characteristics</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>8.</td>
<td>TRMCA08C.- Initial Carrier Frequency Tolerance</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>9.</td>
<td>TRMCA09C.- Carrier Frequency Drift</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>10.</td>
<td>TRMCA10C.- EDR Relative Transmit Power</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>11.</td>
<td>TRMCA11C.- EDR Carrier Frequency Stability and Modulation Accuracy</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>12.</td>
<td>TRMCA12C.- EDR Differential Phase Encoding</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>13.</td>
<td>TRMCA13C.- EDR In-band Spurious Emissions</td>
<td>NTNV</td>
<td>PASS</td>
<td>Interlab</td>
</tr>
<tr>
<td>14.</td>
<td>TRMCA14C.- Enhance Power Control</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>15.</td>
<td>TRMCA15C.- EDR Guard Time</td>
<td>NTNV</td>
<td>PASS</td>
<td>Interlab</td>
</tr>
<tr>
<td>16.</td>
<td>TRMCA16C.- EDR Synchronization Sequence and Trailer</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>17.</td>
<td>RCVCA01C.- Sensitivity - single slot packets</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>18.</td>
<td>RCVCA02C.- Sensitivity - multi-slot packets</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>19.</td>
<td>RCVCA03C.- C/I performance</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>20.</td>
<td>RCVCA04C.- Blocking performance</td>
<td>NTNV</td>
<td>PASS</td>
<td>Interlab</td>
</tr>
<tr>
<td>21.</td>
<td>RCVCA05C.- Intermodulation performance</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>22.</td>
<td>RCVCA06C.- Maximum input level</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>No.</td>
<td>Test Case Id</td>
<td>Conditions</td>
<td>Verdict</td>
<td>Platform</td>
</tr>
<tr>
<td>-----</td>
<td>------------------------------</td>
<td>------------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td>23.</td>
<td>RCVCA07C.- EDR Sensitivity</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
<tr>
<td>24.</td>
<td>RCVCA08C.- EDR BER Floor Performance</td>
<td>NTNV</td>
<td>PASS</td>
<td>Interlab</td>
</tr>
<tr>
<td>25.</td>
<td>RCVCA09C.- EDR C-I Performance</td>
<td>NTNV</td>
<td>PASS</td>
<td>Interlab</td>
</tr>
<tr>
<td>26.</td>
<td>RCVCA10C.- EDR Maximum Input Level</td>
<td>NTNV</td>
<td>PASS</td>
<td>RTSB-A</td>
</tr>
</tbody>
</table>
7 MEASUREMENT UNCERTAINTIES

According to Radio Frequency (RF) Bluetooth Test Specification, Revision RF.TS/5.0.1, the following uncertainty values\(^1,2\) have been calculated and compared to the specified limits as in the table below.

### 7.1 RTSB-A Test System Measurement Uncertainty

<table>
<thead>
<tr>
<th>Testing Path Architecture</th>
<th>RF Tester uncertainty (95% confidence level)</th>
<th>Test cases validated in Testing Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing Path1 Tx_Normal</td>
<td>In BT Band 0.46 dB</td>
<td>TRM_01-16</td>
</tr>
<tr>
<td></td>
<td>Out Of BT Band (worst case) 0.83 dB</td>
<td></td>
</tr>
<tr>
<td>Testing Path2 TxRx_Direct</td>
<td>In BT Band 1.16 dB</td>
<td>TRM_11,12</td>
</tr>
<tr>
<td></td>
<td>TRM_11,12 RCV_01,02,06-08,10</td>
<td></td>
</tr>
<tr>
<td>Testing Path3 Rx_CI</td>
<td>Wanted signal uncertainty level 1.16 dB</td>
<td>RCV_03,09</td>
</tr>
<tr>
<td></td>
<td>Interfering signal uncertainty level (worst case) 0.69 dB</td>
<td></td>
</tr>
<tr>
<td>Testing Path4 Rx_IPPATH_PSG_EUT_INBAND</td>
<td>Wanted signal uncertainty level 1.16 dB</td>
<td>RCV_05</td>
</tr>
<tr>
<td></td>
<td>Interfering signal uncertainty level (worst case)-ESG 0.69 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interfering signal uncertainty level (worst case)-ASG 1.31 dB</td>
<td></td>
</tr>
<tr>
<td>Testing Path5 Rx_BPPATH_PSG_EUT_OUTBAND</td>
<td>Wanted signal uncertainty level 1.16 dB</td>
<td>RCV_04</td>
</tr>
<tr>
<td></td>
<td>Interfering signal uncertainty level 30MHz to 2GHz 0.872 dB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Interfering signal uncertainty level 2GHz to 1.31 dB</td>
<td></td>
</tr>
</tbody>
</table>
# 7.2 Interlab Bluetooth RF Test Solution Measurement Uncertainty

Uncertainty values for BR/EDR

<table>
<thead>
<tr>
<th>Measurement uncertainty</th>
<th>RF uncertainty</th>
<th>Specification limit</th>
<th>Test Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absolute RF power</td>
<td>0.90 dB</td>
<td>1.2 dB</td>
<td>TRM01,02,03,04,05,14</td>
</tr>
<tr>
<td>Absolute RF power (wanted channel)</td>
<td>0.90 dB</td>
<td>1.2 dB</td>
<td>TRM 06,13</td>
</tr>
<tr>
<td>Absolute RF power (for unwanted emissions in the BT band)</td>
<td>0.90 dB</td>
<td>3 dB</td>
<td></td>
</tr>
<tr>
<td>Freq dev uncertainty in payload (GFSK)</td>
<td>4 kHz</td>
<td>4 kHz</td>
<td>TRM 07,08,09</td>
</tr>
<tr>
<td>Freq drift uncertainty (GFSK)</td>
<td>1 kHz</td>
<td>1 kHz</td>
<td></td>
</tr>
<tr>
<td>Absolute radio frequency</td>
<td>5 kHz</td>
<td>5 kHz</td>
<td></td>
</tr>
<tr>
<td>Relative RF Power</td>
<td>0.50 dB</td>
<td>1 dB</td>
<td>TRM 10</td>
</tr>
<tr>
<td>Absolute radio frequency</td>
<td>5 kHz</td>
<td>5 kHz</td>
<td>TRM 11</td>
</tr>
<tr>
<td>RMS DEVM</td>
<td>3%</td>
<td>&lt;5%</td>
<td></td>
</tr>
<tr>
<td>Relative drift radio frequency</td>
<td>1 kHz</td>
<td>1 kHz</td>
<td></td>
</tr>
<tr>
<td>Symbol Error</td>
<td>1ppm</td>
<td>1ppm</td>
<td>TRM12</td>
</tr>
<tr>
<td>Frequency Accuracy</td>
<td>&lt;0.5us or 1 ppm</td>
<td>1ppm</td>
<td>TRM12</td>
</tr>
<tr>
<td>Absolute RF power (wanted channel)</td>
<td>0.74 dB</td>
<td>1.2 dB</td>
<td>RCV01,02,06,07,08,10</td>
</tr>
<tr>
<td>Absolute RF power (wanted channel)</td>
<td>0.88 dB</td>
<td>1.2 dB</td>
<td>RCV09</td>
</tr>
<tr>
<td>Absolute RF power (for interfering signal)</td>
<td>1.12 dB</td>
<td>3 dB</td>
<td></td>
</tr>
<tr>
<td>Absolute RF power (wanted channel)</td>
<td>0.88 dB</td>
<td>1.2 dB</td>
<td></td>
</tr>
<tr>
<td>Absolute RF power (for 1st interfering signal)</td>
<td>1.12 dB</td>
<td>3 dB</td>
<td></td>
</tr>
<tr>
<td>Absolute RF power (for 2nd interfering)</td>
<td>1.78 dB</td>
<td>3 dB</td>
<td></td>
</tr>
<tr>
<td>Measurement uncertainty</td>
<td>RF Tester uncertainty</td>
<td>Specification limit</td>
<td>Test Case</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-----------------------</td>
<td>---------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>signal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Absolute RF power (wanted channel)</td>
<td>0.88 dB</td>
<td>1.2 dB</td>
<td></td>
</tr>
<tr>
<td>Absolute RF power (for 1st interfering signal)</td>
<td>1.07 dB</td>
<td>3 dB</td>
<td>RCV05</td>
</tr>
<tr>
<td>Absolute RF power (for 2nd interfering signal)</td>
<td>1.20 dB</td>
<td>3 dB</td>
<td></td>
</tr>
</tbody>
</table>

Note 1: All values reflect a 95% confidence level.

Note 2: All values are valid for operating system temperatures between 20°C and 30°C.
8 TEST EQUIPMENT LIST

Conformance testing was performed using test equipment calibrated in accordance with CNAS accreditation requirements. Calibration, configuration records and equipment details used for conformance testing are available for inspection at SRTC if required.

8.1 RTSB-A Test System

<table>
<thead>
<tr>
<th>No.</th>
<th>Equipment Name</th>
<th>Manufacturer</th>
<th>Model Number</th>
<th>Serial Number</th>
<th>Calibration Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Spectrum Analyzer</td>
<td>Agilent</td>
<td>N9030A</td>
<td>MY51380467</td>
<td>2018.08.20</td>
</tr>
<tr>
<td>2</td>
<td>Sweep Generator</td>
<td>Agilent</td>
<td>E8257D</td>
<td>MY46520645</td>
<td>2019.03.01</td>
</tr>
<tr>
<td>3</td>
<td>RF Signal Generator</td>
<td>Agilent</td>
<td>E4438C</td>
<td>MY45093904</td>
<td>2018.08.20</td>
</tr>
<tr>
<td>4</td>
<td>Bluetooth Test Set</td>
<td>Anritsu</td>
<td>MT8852B</td>
<td>1142010</td>
<td>2019.03.01</td>
</tr>
<tr>
<td>6</td>
<td>Switching Unit</td>
<td>CTTL</td>
<td>CTTLBTTS</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

Software:

Test Engine ver 2.0.0

8.2 InterLab

<table>
<thead>
<tr>
<th>Items</th>
<th>Test Equipment Name</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Serial Number</th>
<th>Cal Due data</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Spectrum Analyzer</td>
<td>R&amp;S</td>
<td>FSL3</td>
<td>104526</td>
<td>2018.12.14</td>
</tr>
<tr>
<td>002</td>
<td>Sweep Generator</td>
<td>R&amp;S</td>
<td>SMF100A</td>
<td>104774</td>
<td>2018.12.14</td>
</tr>
<tr>
<td>003</td>
<td>RF Signal Generator</td>
<td>R&amp;S</td>
<td>SMBV100A</td>
<td>261074</td>
<td>2018.12.14</td>
</tr>
<tr>
<td>004</td>
<td>Bluetooth Test Set</td>
<td>R&amp;S</td>
<td>CMW270</td>
<td>100555</td>
<td>2018.12.13</td>
</tr>
<tr>
<td>005</td>
<td>Switching Unit</td>
<td>InterLab</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>006</td>
<td>Temperature and Humidity</td>
<td>ESPEC</td>
<td>E0517</td>
<td>92000390</td>
<td>2018.08.19</td>
</tr>
<tr>
<td>Box</td>
<td>Description</td>
<td>Brand</td>
<td>Model</td>
<td>Serial No.</td>
<td>Date</td>
</tr>
<tr>
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<td>---------</td>
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<tr>
<td>007</td>
<td>Power Supply</td>
<td>R&amp;S</td>
<td>HMP2020</td>
<td>021921846</td>
<td>2018.12.14</td>
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**Software:**

Test Engine ver 5.1.2
Annex A – Protocol Implementation Conformance Statement (PICS)

PICS performance for Radio (BR/EDR)

<table>
<thead>
<tr>
<th>Item</th>
<th>Capability</th>
<th>Reference</th>
<th>Status</th>
<th>Support: Yes or No</th>
<th>Values Allowed</th>
<th>Values Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power Class 1</td>
<td>RF, 3</td>
<td>M,1</td>
<td>YES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Power Class 2</td>
<td>RF, 3</td>
<td>M,1</td>
<td>NO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Power Class 3</td>
<td>RF, 3</td>
<td>M,1</td>
<td>NO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Power Control</td>
<td>RF, 3</td>
<td>C.1</td>
<td>YES</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>1-slot packets supported</td>
<td>BB, 6.5</td>
<td>M</td>
<td>YES</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>3-slot packets supported</td>
<td>BB, 6.5</td>
<td>O</td>
<td>YES</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>5-slot packets supported</td>
<td>BB, 6.5</td>
<td>O</td>
<td>YES</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>79 Channels</td>
<td>RF, 2</td>
<td>M</td>
<td>YES</td>
<td>-</td>
<td>-</td>
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<tr>
<td>9</td>
<td>Support for GFSK modulation</td>
<td>RF, 3.1</td>
<td>M</td>
<td>YES</td>
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<td></td>
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<tr>
<td>10</td>
<td>Support for π/4-DQPSK</td>
<td>RF, 3.2</td>
<td>C.2</td>
<td>YES</td>
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<tr>
<td>11</td>
<td>Support for 8DPSK modulation</td>
<td>RF, 3.2</td>
<td>C.3</td>
<td>YES</td>
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<tr>
<td>12</td>
<td>Enhanced Power Control</td>
<td>RF, 3</td>
<td>C.4</td>
<td>YES</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

M.1: Must choose one only one power class.
C.1: Mandatory to support if 1/1 is supported, ELSE Optional to support if 1/2 OR 1/3 is supported. Mandatory if SUM_ICS 21/4 OR SUM_ICS 21/6 OR (SUM_ICS 21/8 AND EDR Support) is claimed; ELSE Optional if SUM_ICS 21/3 OR SUM_ICS 21/5 OR SUM_ICS 21/8 is claimed; ELSE Excluded.
C.2: Mandatory if SUM_ICS 21/4 OR SUM_ICS 21/6 OR (SUM_ICS 21/8 AND EDR Support) is claimed; ELSE Optional if SUM_ICS 21/3 OR SUM_ICS 21/5 OR SUM_ICS 21/8 is claimed; ELSE Excluded.
C.3: Mandatory if SUM_ICS 21/4 OR SUM_ICS 21/6 OR (SUM_ICS 21/8 AND EDR Support) is claimed; ELSE Optional if 1/8 AND (SUM_ICS 21/3 OR SUM_ICS 21/5 OR SUM_ICS 21/8) is claimed; ELSE Excluded.
C.4: Optional if Sum_ICS, 21/8 AND 1/4 supported, ELSE Excluded.
## Annex B – Protocol Implementation Extra Information For Testing (PIXIT)

<table>
<thead>
<tr>
<th>Item</th>
<th>Identifier</th>
<th>Units</th>
<th>Comments</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic Bluetooth</td>
<td><strong>RF:P 1</strong> Timer for TX power control</td>
<td>ms</td>
<td>TRM/CA/03 Power Control</td>
<td>1000</td>
</tr>
<tr>
<td><strong>RF:P 2</strong> Inband Image frequency</td>
<td>MHz</td>
<td>RCV/CA/03 C/I Performance RCV/CA/09 EDR C/I Performance</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>RF:P 3</strong> Value n for Intermodulation test</td>
<td>Integer</td>
<td>RCV/CA/05 Intermodulation Performance</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>RF:P 6</strong> Type of power source</td>
<td></td>
<td>Chapter 6.4, RF Test Specification</td>
<td>DC</td>
<td></td>
</tr>
<tr>
<td><strong>RF:P 7</strong> Nominal power source voltage</td>
<td>V</td>
<td>Chapter 6.4, RF Test Specification</td>
<td>3.8</td>
<td></td>
</tr>
<tr>
<td><strong>RF:P 8</strong> Operating temperature range</td>
<td>°C</td>
<td>Chapter 6.5, RF Test Specification</td>
<td>25</td>
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</tr>
<tr>
<td><strong>RF:P 9</strong> Extreme power source voltage</td>
<td>V</td>
<td>Chapter 6.5, RF Test Specification</td>
<td>NA</td>
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</tr>
<tr>
<td><strong>RF:P 10</strong> Antenna gain</td>
<td>dB</td>
<td>Chapter 6.9, RF Test Specification</td>
<td>2.18</td>
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</tbody>
</table>
Annex C – EUT Photograph

Photo 1: The front view of EUT

Photo 2: The vertical view of EUT

--- End of Test Report ---