



Prüfbericht-Nr.: <i>Test report no.:</i>	CN24GKIG 001	Auftrags-Nr.: <i>Order no.:</i>	48224045	Seite 1 von 17 Page 1 of 17
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2023-09-19	
Auftraggeber: <i>Client:</i>	Panasonic Corporation of North America Two Riverfront Plaza, Newark, New Jersey, 07102-5490, United States			
Prüfgegenstand: <i>Test item:</i>	Silver Box			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	CQ-RQ1EN04W			
Auftrags-Inhalt: <i>Order content:</i>	Spot Checking Emissions (FCC)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247 FCC 47CFR Part 15: Subpart E Section 15.407			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023-11-09			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003599005-016			
Prüfzeitraum: <i>Testing period:</i>	2023-11-18 - 2024-02-01			
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>compiled by:</i>		genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2024-02-16	Ausstellungsdatum: <i>Issue date:</i>	2024-02-16	
Stellung / Position:	Senior Project Manager	Stellung / Position:	Senior Project Manager	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: **CN24GKIG 001**
Test report no.:

Seite 2 von 17
Page 2 of 17

Anmerkungen
Remarks

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
2	<p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p>
3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(d) & 15.407(b) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Contents

HISTORY OF THIS TEST REPORT	5
1. GENERAL REMARKS	6
1.1 COMPLEMENTARY MATERIALS.....	6
1.2 DECISION RULE OF CONFORMITY	6
2. TEST SITES	7
2.1 TEST LABORATORY	7
2.2 TEST FACILITY.....	7
2.3 TRACEABILITY	8
2.4 CALIBRATION	8
2.5 MEASUREMENT UNCERTAINTY	8
3. GENERAL PRODUCT INFORMATION.....	9
3.1 PRODUCT FUNCTION AND INTENDED USE	9
3.2 SYSTEM DETAILS AND RATINGS.....	9
3.3 NOISE GENERATING AND NOISE SUPPRESSING PARTS	9
3.4 SUBMITTED DOCUMENTS.....	9
4. TEST SET-UP AND OPERATION MODES.....	10
4.1 PRINCIPLE OF CONFIGURATION SELECTION	10
4.2 TEST OPERATION AND TEST SOFTWARE.....	11
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	12
4.4 TEST SETUP DIAGRAM	12
5. TEST RESULTS	13
5.1 TRANSMITTER REQUIREMENT & TEST SUITES	13
5.1.1 <i>Radiated Spurious Emissions</i>	<i>13</i>

APPENDIX A - TEST RESULT OF RADIATED EMISSIONS

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

Prüfbericht - Nr.: **CN24GKIG 001**
Test Report No.

Seite 5 von 17
Page 5 of 17

HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2024-02-16

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Emissions

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC CFR47 Part 15: Subpart C Section 15.247
FCC CFR47 Part 15: Subpart E Section 15.407
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Silver Box. It contains Bluetooth and WLAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Silver Box
Type Identification	CQ-RQ1EN04W
FCC ID	ACJ932RQ1EN04W

Technical Specification of EUT

Item	EUT information
Operating Frequency	WLAN 5G: 5180 ~ 5240 MHz Bluetooth: 2402 ~ 2480 MHz
Operation Voltage	12 Vdc
Modulation	802.11a/n/ac: OFDM Bluetooth: GFSK, $\pi/4$ -DQPSK, 8-DPSK
Antenna Type	Multilayer Ceramic Antenna
Antenna Gain	WLAN: 2.86 dBi Bluetooth: 2 dBi

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

4.2 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	PuTTY
---------------	-------

The samples were used as follows:

A003599005-016 for radiated test

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To	Description
	Radiated Spurious Emissions	
-	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Z-plane**.
2. "-" means no effect.

Radiated Spurious Emissions

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Description
-	Bluetooth GFSK_2402 MHz + WiFi 802.11ac VHT20_5240 MHz

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	23.7-24.6 °C	52-55 %	Roger Liao

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

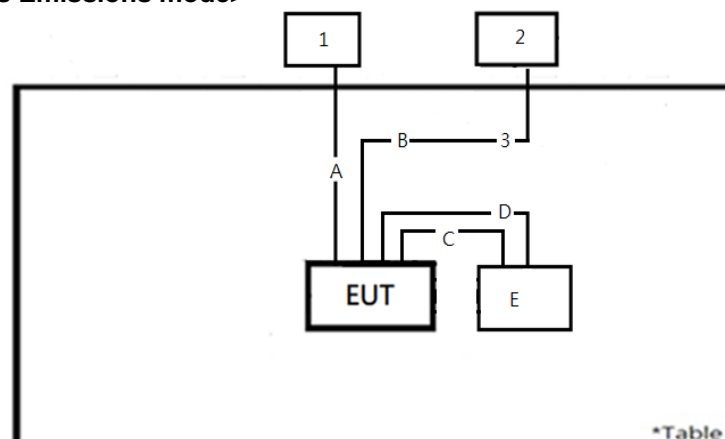
None

Support Unit

Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	DC Cable	Panasonic	Panasonic-01	N/A	N/A	NO	40	--
B	USB Cable	Panasonic	Panasonic-02	N/A	N/A	NO	110	--
C	Signal Cable	Panasonic	Panasonic-03	N/A	N/A	YES	85	--
D	Signal Cable	Panasonic	Panasonic-04	N/A	N/A	YES	85	--
E	Monitor	Panasonic	Panasonic-05	N/A	-	-	-	--
1	DC Power Supply	Gwinstek	GPS-3030	N/A	-	-	-	--
2	Notebook	HP	15-da1046TX	CND9111RJB	-	-	-	--
3	USB to USB	TUV	TUV-01	N/A	NO	NO	300	--

4.4 Test Setup Diagram

<Radiated Spurious Emissions mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emissions

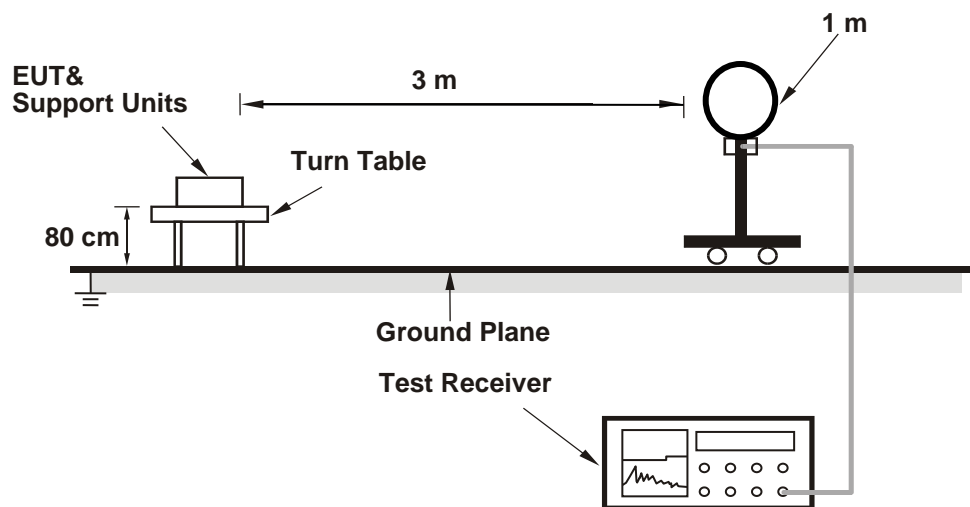
Limit

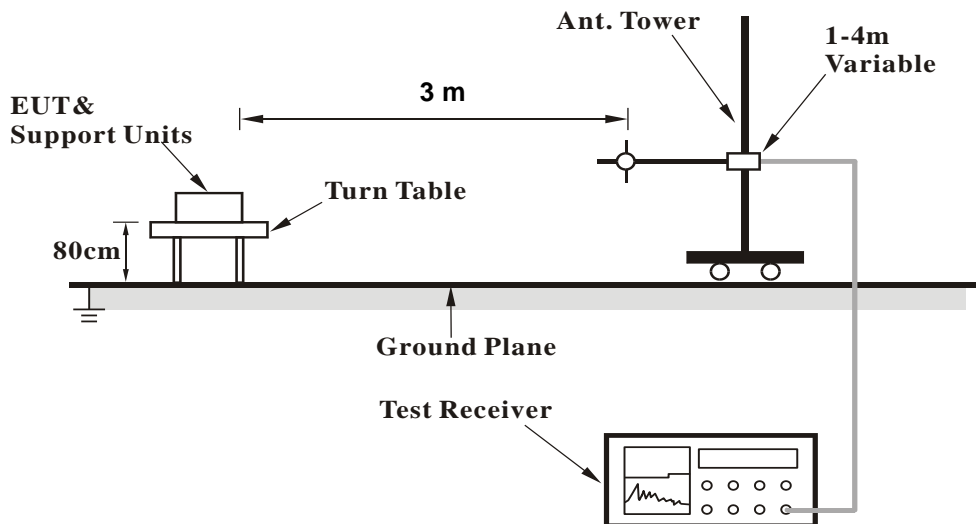
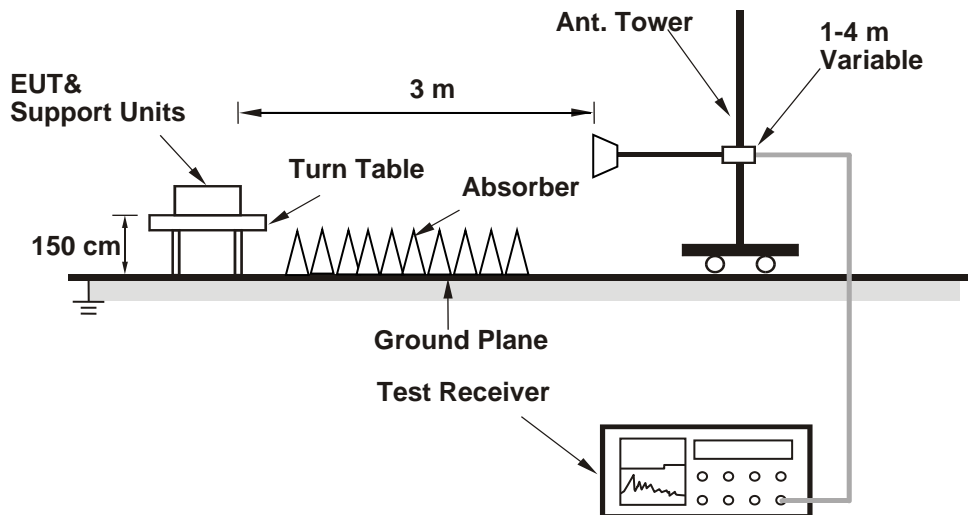
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>

<Radiated Emissions above 1 GHz>


For the actual test configuration, please refer to the attached file (Test Setup Photo).

Prüfbericht - Nr.: CN24GKIG 001
Test Report No.
Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2023/4/26	2024/4/24
Horn Antenna	ETS-Lindgren	3117	00218929	2023/11/17	2024/11/15
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2023/5/4	2024/5/2
HF-AMP + AC source	EMCI	EMC051845SE	980635	2023/2/16	2024/2/15
HF-AMP + AC source	EMCI	EMC051845SE	980657	2023/2/16	2024/2/15
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2023/3/31	2024/3/29
LF-AMP	Agilent	8447D	2944A107722	2023/3/22	2024/3/20
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2024/1/4	2025/1/2
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

Prüfbericht - Nr.: **CN24GKIG 001**
Test Report No.

Seite 17 von 17
Page 17 of 17

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

Appendix A: Test Results of Radiated Emissions

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

Bluetooth GFSK_2402 MHz + WiFi 802.11ac VHT20_5240 MHz																																																																																																																																																																	
9kHz~150kHz (Open)	150kHz~30MHz (Open)																																																																																																																																																																
<div style="text-align: right; font-size: small;"> TÜV Rheinland Taiwan Ltd. No. 438-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322 </div> <div style="text-align: center;"> </div> <div style="text-align: right; font-size: x-small;">Date: 2023-11-21</div> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Read</th> <th>Limit</th> <th>Over</th> <th>APos</th> <th>TPos</th> <th>Remark</th> <th>Pol/Phase</th> <th>Note</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.01</td><td>62.40</td><td>44.68</td><td>17.72</td><td>127.60</td><td>-65.20</td><td>100</td><td>132 Peak</td><td>Open</td></tr> <tr><td>2</td><td>0.03</td><td>66.68</td><td>47.73</td><td>18.95</td><td>119.13</td><td>-52.45</td><td>100</td><td>282 Peak</td><td>Open</td></tr> <tr><td>3</td><td>0.05</td><td>43.65</td><td>24.61</td><td>19.04</td><td>113.11</td><td>-69.46</td><td>100</td><td>195 Peak</td><td>Open</td></tr> <tr><td>4</td><td>0.08</td><td>36.68</td><td>18.18</td><td>18.50</td><td>110.01</td><td>-73.33</td><td>100</td><td>360 Peak</td><td>Open</td></tr> <tr><td>5</td><td>0.11</td><td>32.27</td><td>14.30</td><td>17.97</td><td>106.49</td><td>-74.22</td><td>100</td><td>113 Peak</td><td>Open</td></tr> <tr><td>6</td><td>0.14</td><td>26.38</td><td>8.32</td><td>18.06</td><td>104.93</td><td>-78.55</td><td>100</td><td>152 Peak</td><td>Open</td></tr> </tbody> </table>	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			1	0.01	62.40	44.68	17.72	127.60	-65.20	100	132 Peak	Open	2	0.03	66.68	47.73	18.95	119.13	-52.45	100	282 Peak	Open	3	0.05	43.65	24.61	19.04	113.11	-69.46	100	195 Peak	Open	4	0.08	36.68	18.18	18.50	110.01	-73.33	100	360 Peak	Open	5	0.11	32.27	14.30	17.97	106.49	-74.22	100	113 Peak	Open	6	0.14	26.38	8.32	18.06	104.93	-78.55	100	152 Peak	Open	<div style="text-align: right; font-size: small;"> TÜV Rheinland Taiwan Ltd. No. 438-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322 </div> <div style="text-align: center;"> </div> <div style="text-align: right; font-size: x-small;">Date: 2023-11-21</div> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Read</th> <th>Limit</th> <th>Over</th> <th>APos</th> <th>TPos</th> <th>Remark</th> <th>Pol/Phase</th> <th>Note</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dBuV/m</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1</td><td>0.33</td><td>39.10</td><td>20.35</td><td>18.75</td><td>97.26</td><td>-50.16</td><td>100</td><td>121 Peak</td><td>Open</td></tr> <tr><td>2</td><td>4.87</td><td>33.79</td><td>14.28</td><td>19.51</td><td>69.50</td><td>-35.71</td><td>100</td><td>52 Peak</td><td>Open</td></tr> <tr><td>3</td><td>12.81</td><td>36.65</td><td>14.87</td><td>21.78</td><td>69.50</td><td>-32.85</td><td>100</td><td>68 Peak</td><td>Open</td></tr> <tr><td>4</td><td>18.27</td><td>34.82</td><td>12.64</td><td>22.18</td><td>69.50</td><td>-34.68</td><td>100</td><td>56 Peak</td><td>Open</td></tr> <tr><td>5</td><td>24.03</td><td>36.19</td><td>13.86</td><td>22.33</td><td>69.50</td><td>-33.31</td><td>100</td><td>250 Peak</td><td>Open</td></tr> <tr><td>6</td><td>27.94</td><td>36.07</td><td>13.71</td><td>22.36</td><td>69.50</td><td>-33.43</td><td>100</td><td>116 Peak</td><td>Open</td></tr> </tbody> </table>	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			1	0.33	39.10	20.35	18.75	97.26	-50.16	100	121 Peak	Open	2	4.87	33.79	14.28	19.51	69.50	-35.71	100	52 Peak	Open	3	12.81	36.65	14.87	21.78	69.50	-32.85	100	68 Peak	Open	4	18.27	34.82	12.64	22.18	69.50	-34.68	100	56 Peak	Open	5	24.03	36.19	13.86	22.33	69.50	-33.31	100	250 Peak	Open	6	27.94	36.07	13.71	22.36	69.50	-33.43	100	116 Peak	Open
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note																																																																																																																																																								
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg																																																																																																																																																										
1	0.01	62.40	44.68	17.72	127.60	-65.20	100	132 Peak	Open																																																																																																																																																								
2	0.03	66.68	47.73	18.95	119.13	-52.45	100	282 Peak	Open																																																																																																																																																								
3	0.05	43.65	24.61	19.04	113.11	-69.46	100	195 Peak	Open																																																																																																																																																								
4	0.08	36.68	18.18	18.50	110.01	-73.33	100	360 Peak	Open																																																																																																																																																								
5	0.11	32.27	14.30	17.97	106.49	-74.22	100	113 Peak	Open																																																																																																																																																								
6	0.14	26.38	8.32	18.06	104.93	-78.55	100	152 Peak	Open																																																																																																																																																								
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note																																																																																																																																																								
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg																																																																																																																																																										
1	0.33	39.10	20.35	18.75	97.26	-50.16	100	121 Peak	Open																																																																																																																																																								
2	4.87	33.79	14.28	19.51	69.50	-35.71	100	52 Peak	Open																																																																																																																																																								
3	12.81	36.65	14.87	21.78	69.50	-32.85	100	68 Peak	Open																																																																																																																																																								
4	18.27	34.82	12.64	22.18	69.50	-34.68	100	56 Peak	Open																																																																																																																																																								
5	24.03	36.19	13.86	22.33	69.50	-33.31	100	250 Peak	Open																																																																																																																																																								
6	27.94	36.07	13.71	22.36	69.50	-33.43	100	116 Peak	Open																																																																																																																																																								

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

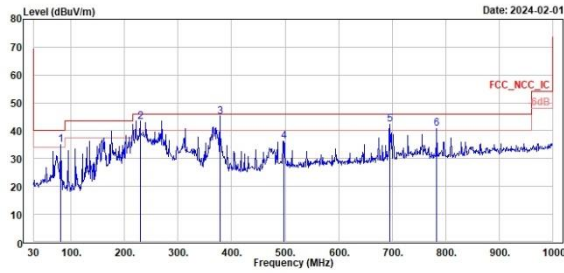
Bluetooth GFSK_2402 MHz + WiFi 802.11ac VHT20_5240 MHz

Horizontal

Vertical



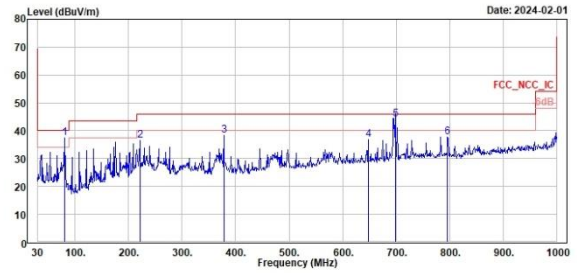
TÜV Rheinland Taiwan Ltd.
 No. 438-18, Sec. 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	80.44	35.09	46.06	-10.97	40.00	-4.91	200	195 Peak	Horizontal
2	228.85	43.31	50.70	-7.39	46.00	-2.69	100	260 QP	Horizontal
3	378.23	44.93	48.21	-3.28	46.00	-1.07	100	258 QP	Horizontal
4	497.54	36.18	37.79	-1.61	46.00	-9.82	200	224 Peak	Horizontal
5	695.42	42.24	40.27	1.97	46.00	-3.76	100	234 Peak	Horizontal
6	783.69	40.81	37.66	3.15	46.00	-5.19	100	210 Peak	Horizontal



TÜV Rheinland Taiwan Ltd.
 No. 438-18, Sec. 2, Penfiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322



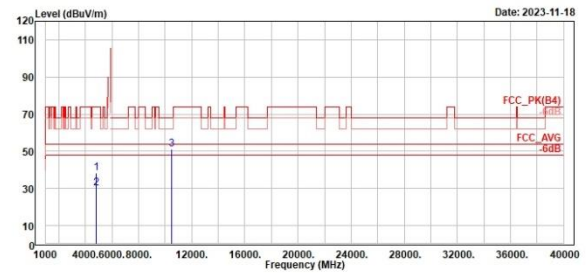
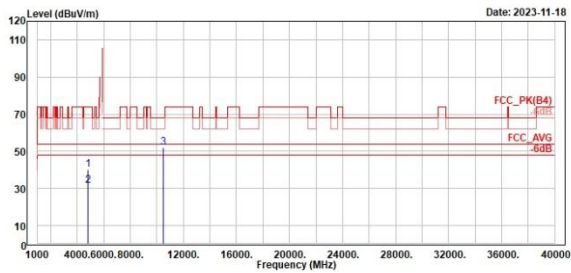
Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	80.44	37.45	48.42	-10.97	40.00	-2.55	100	113 Peak	Vertical
2	221.09	36.38	44.52	-8.14	46.00	-9.62	100	129 Peak	Vertical
3	378.23	38.26	41.54	-3.28	46.00	-7.74	100	143 Peak	Vertical
4	647.89	36.73	35.83	0.90	46.00	-9.27	100	227 Peak	Vertical
5	698.33	43.99	41.90	2.09	46.00	-2.01	100	180 QP	Vertical
6	796.30	37.65	34.09	3.56	46.00	-8.35	135	360 Peak	Vertical

Spurious Emissions, Tx Mode, 1GHz ~ 40GHz

Bluetooth GFSK_2402 MHz + WiFi 802.11ac VHT20_5240 MHz

Horizontal

Vertical



Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4894.00	39.96	47.68	-7.72	74.00	-34.04	390	323 Peak	Horizontal
2	4894.00	31.71	39.43	-7.72	54.00	-22.29	390	323 Average	Horizontal
3	10489.00	52.08	52.61	-0.53	68.20	-16.12	100	46 Peak	Horizontal

Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4894.00	38.40	46.12	-7.72	74.00	-35.60	180	85 Peak	Vertical
2	4894.00	30.21	37.93	-7.72	54.00	-23.79	180	85 Average	Vertical
3	10489.00	51.10	51.63	-0.53	68.20	-17.10	269	360 Peak	Vertical