







Prüfbericht-Nr.: CN217P5O (P15C-2.4G) Auftrags-Nr.: Seite 1 von 27 238515716 Order no .: Page 1 of 27 001 Test report no.: Kunden-Referenz-Nr.: N/A Auftragsdatum: 2021-05-27 Order date: Client reference no.: Auftraggeber: HP Inc. Client: 3390 East Harmony Road, Mailstop 66, Fort Collins, CO 80528, United States Prüfgegenstand: Wireless adapter Test item: Bezeichnung / Typ-Nr.: CL002WA1 Identification / Type no.: Auftrags-Inhalt: FCC Part 15C Test report (2.4GHz) Order content: Prüfgrundlage: Test specification: FCC 47CFR Part 15: Subpart C Section 15.247 Wareneingangsdatum: 2021-06-21 Date of sample receipt: Prüfmuster-Nr.: A003075904-021 Test sample no: A003075904-004 Prüfzeitraum: 2021-07-05 - 2021-07-10 Testing period: Ort der Prüfung: **EMC/RF** Taipei Testing Place of testing: Prüflaboratorium: Taipei Testing Laboratories Testing laboratory: Prüfergebnis*: Pass Test result*: überprüft von: genehmigt von: compiled by: authorized by: Ausstellungsdatum: Datum: Date: 2021-07-15 Issue date: 2021-07-15 Rvan Chen Brenda Chen Senior Project Manager **Stellung** / Position: **Stellung** / Position: Senior Project Manager Sonstiges / Other: Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet 2 = good3 = satisfactory 4 = sufficient 5 = poor* Legend: 1 = very good P(ass) = passed a.m. test specification(s) N/A = not applicable F(ail) = failed a.m. test specification(s) N/T = not testedDieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht



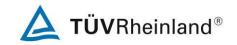
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TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(3)	Peak Output Power	Pass
5.1.3	15.247(a)(2)	6 dB Bandwidth	Pass
5.1.3	2.1049	99% Occupied Bandwidth	Pass
5.1.4	15.247(e)	Power Spectral Density	Pass
5.1.5	15.247(d)	Conducted Spurious Emissions and Band Edges	Pass
5.1.6	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

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



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APPENDIX EP - PHOTOG	GRAPHS OF EU I	



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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued	
CN217P5O (P15C-2.4G) 001	Original Release	2021-07-15	



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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 Conducted

Appendix B - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio

FCC 47CFR Part 15: Subpart C Section 15.247 FCC 47CFR Part 2: Subpart J Section 2.1049

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.



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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.: 226631 ISED Registration No.: 25563



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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 basics 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



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3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Wireless adapter. It contains a 2.4GHz 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	Wireless adapter
Type Identification	CL002WA1
FCC ID	B94-CL002WA1

Technical Specification of EUT

Item	EUT information
Operating Frequency	2405.35 MHz ~ 2477.35 MHz
Channel Number	37
Operation Voltage	5 Vdc
Modulation	Pi/4 DQPSK
Maximum Output Power (mW)	2.77
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.3

Note: There're two antennas (Ant 1 and Ant 2) used for 2.4GHz function and supports SISO mode only.



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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



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4. Test Set-up and Operation Modes

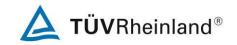
4.1 Principle of Configuration Selection

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.

Table for Parameters of Test Software Setting

Frequency (MHz)	Power Setting
2405.35	0x08
2439.35	0x08
2477.35	0x08



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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	VMItest-1.1.6.56
---------------	------------------

The samples were used as follows:

A003075904-021

A003075904-004

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

	Applicable To				
EUT Configure Mode	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	Description
-	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	<u>-</u>

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.

Antenna Port Conducted Measurement

- 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	Available Frequency (MHz)	Tested Frequency (MHz)
ANT 1 / ANT 2 (Power)	2405.35 to 2477.35	2405.35, 2439.35, 2477.35
ANT 2 (other conducted test)	2405.35 to 2477.35	2405.35, 2439.35, 2477.35

Note: Based on the worst case of conducted power, only Ant 2 was performed for the full tests.

Radiated Spurious Emissions (Above 1 GHz)

- 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.

ĺ	EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
	ANT 2	2405.35 to 2477.35	2405.35, 2439.35, 2477.35

Radiated Spurious Emissions (Below 1 GHz)

- 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	Available Frequency (MHz)	Tested Frequency (MHz)	
ANT 2	2405.35 to 2477.35	2479.35	

Mains Conducted Emission

- 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	Available Frequency (MHz)	Tested Frequency (MHz)		
ANT 2	2405.35 to 2477.35	2479.35		



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Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	23.9 °C	65.4 %	Stanislas Charles
Radiated Spurious Emissions above 1 GHz	21.3-23.3 °C	56-58 %	Temo Chen
Radiated Spurious Emissions below 1 GHz	21.3-23.3 °C	56-58 %	Temo Chen
Mains Conducted Emission	19.5 °C	61 %	Simon Tsai

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		Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark	
1	Notebook	HP	15-da1046TX	CND911MY2	No	No	-	Radiated
2	Adaptor	HP	TPN-LA16	N/A	Yes	No	180	Emission
1	Adapter	HP	TPN-CA16	N/A	Yes	No	180	Mains
2	Notebook	HP	15s-du0007TX	CND93662VF	No	No	-	Conducted

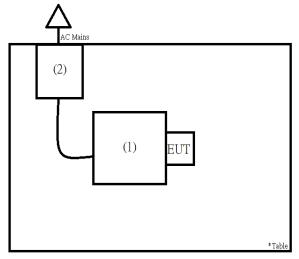


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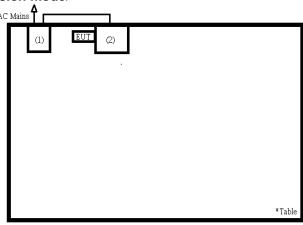
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4.4 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>





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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Antenna	Antenna Type	Antenna Gain (dBi)		
Ant 1	PCB Antenna	1.1		
Ant 2	PCB Antenna	3.26		

Refer to EUT photo for details.



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5.1.2 Peak Output Power

Limit 1 watt (30 dBm)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of	Manufacturar	Type	S/N	Calibration	Calibration	Test Date	
Equipment	Manufacturer	r ype	3/IV	Date	Due Date	From	Until
Power Meter	Anritsu	ML2495A	1901008	2021/3/24	2022/3/23	2021/7/5	2021/7/5
Power Sensor	Anritsu	MA2411B	1725269	2021/3/24	2022/3/23	2021/7/5	2021/7/5

Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.



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Test Result

Peak Output Power

<Ant 1>

Channel	Channel Frequency	Peak Output Power		Limit	
	(MHz)	(dBm)	(mW)	(dBm)	
Low Channel	2405.35	4.16	2.61	30	
Middle Channel	2439.35	4.11	2.58	30	
High Channel	2477.35	3.87	2.44	30	

<Ant 2>

Channel	Channel Frequency	Peak Output Power		Limit	
	(MHz)	(dBm)	(mW)	(dBm)	
Low Channel	2405.35	4.43	2.77	30	
Middle Channel	2439.35	4.38	2.74	30	
High Channel	2477.35	4.14	2.59	30	

Average Power

<Ant 1>

Channel	Channel Frequency	Average Power		
	(MHz)	(dBm)	(mW)	
Low Channel	2405.35	1.73	1.49	
Middle Channel	2439.35	1.63	1.46	
High Channel	2477.35	1.46	1.40	

<Ant 2>

Channel	Channel Frequency	Average	e Power
	(MHz)	(dBm)	(mW)
Low Channel	2405.35	2.02	1.59
Middle Channel	2439.35	1.91	1.55
High Channel	2477.35	1.71	1.48



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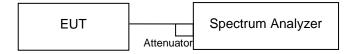
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5.1.3 6 dB Bandwidth and 99% Occupied Bandwidth

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

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of	Manufacturar	T. 100	S/N	Calibration	Calibration	Test	Date
Equipment	Manufacturer	Туре	3/IV	Date	Due Date	From	Until
Spectrum Analyzer	R&S	FSV40	101512	2021/1/29	2022/1/28	2021/7/5	2021/7/5

Test Procedure

- a. Set resolution bandwidth (RBW) = 100 kHz
- b. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- f. For 99% occupied bandwidth measurement, the transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

Test Results

Please refer to Appendix A.



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5.1.4 Power Spectral Density

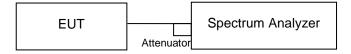
Limit

The power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Kind of Test Site

Shielded room

Test Setup



Test Instruments

Kind of	Manufacturar	Type	S/N	Calibration	Calibration	Test	Date
Equipment	Manufacturer	Туре	3/IN	Date	Due Date	From	Until
Spectrum Analyzer	R&S	FSV40	101512	2021/1/29	2022/1/28	2021/7/5	2021/7/5

Test Procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d. Set the VBW \geq 3 × RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Results

Please refer to Appendix A.



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5.1.5 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

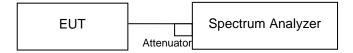
Limit

20dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

Kind of Test Site

Shielded room

Test Setup



Test Instruments

Kind of	Manufacturer	Typo	Calibration Calibration		Test	Test Date	
Equipment	Manufacturer	Туре	S/N	Date	Due Date	From	Until
Spectrum Analyzer	R&S	FSV40	101512	2021/1/29	2022/1/28	2021/7/5	2021/7/5

Test Procedure

Measurement procedure REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement procedure OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

Test Results

Please refer to Appendix A.



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5.1.6 Radiated Spurious Emissions and Band Edges

Limit

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

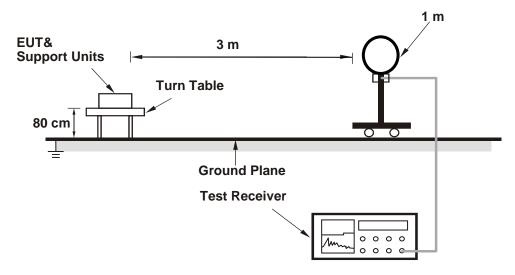
Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

Kind of Test Site

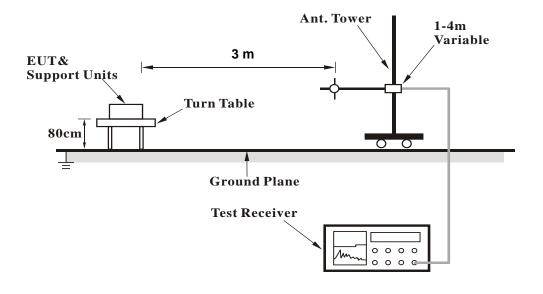
3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>

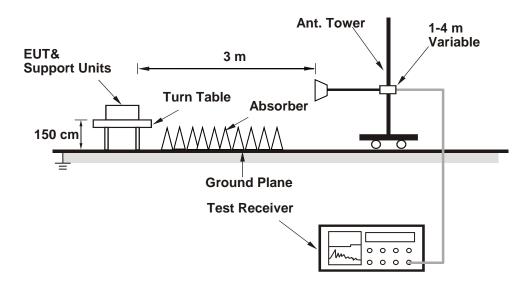




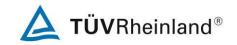
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<Radiated Emissions above 1 GHz>



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



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Test Instruments

Kind of		-	0/1	Calibration	Calibration
Equipment	Manufacturer	Туре	S/N	Date	Due Date
Signal Analyzer	R&S	FSV40	101509	2021/3/24	2022/3/23
Receiver	R&S	ESR7	102108	2021/3/17	2022/3/16
Bilog Antenna	SCHWARZBECK	VULB-9168	00950	2021/1/25	2022/1/24
Horn Antenna	ETS-Lindgren	3117	00218929	2020/11/6	2021/11/5
LF-AMP	Agilent	8447D	2727A05146	2021/2/1	2022/1/31
HF-AMP + AC	EMCI	EMC051845SE	980635	2021/2/1	2022/1/31
source	LIVICI	LIVICUS 10433L	900033	2021/2/1	2022/1/31
HF-AMP + AC source	EMCI	EMC184045SE	980656	2021/2/9	2022/2/8
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2021/4/14	2022/4/13
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800057/4EA	2021/4/14	2022/4/13
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2021/4/14	2022/4/13
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2021/4/14	2022/4/13
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800897/2EA	2021/3/11	2022/3/10
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800902/2EA	2021/3/11	2022/3/10
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801026/2EA	2021/3/11	2022/3/10
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2021/1/18	2022/1/17



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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 (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) 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:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

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 ≥ 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.



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Test Results		
Factor (dB/m) = Antenna I Level (dBuV/m) = Reading	Factor (dB/m) + Cable Loss (dB) g (dBuV) + Factor (dB/m)	
Please refer to Appendix I	3.	



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5.2 Mains Emission

5.2.1 Mains Conducted Emission

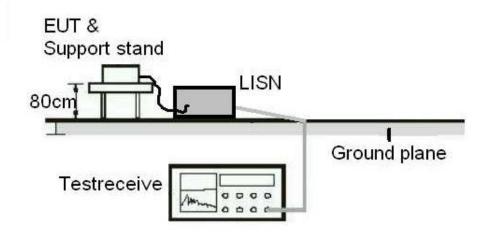
Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site

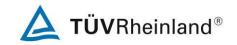
Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Туре	S/N	Calibration Date	Calibration Due Date
TWO-LINE V- NETWORK	R&S	ENV216	1816064	2020/9/10	2021/9/9
EMI Test Receiver	R&S	ESCI	1816063	2020/11/17	2021/11/16
RF Cable	N/A	N/A	EMC-003	2020/11/15	2021/11/14



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Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix B.



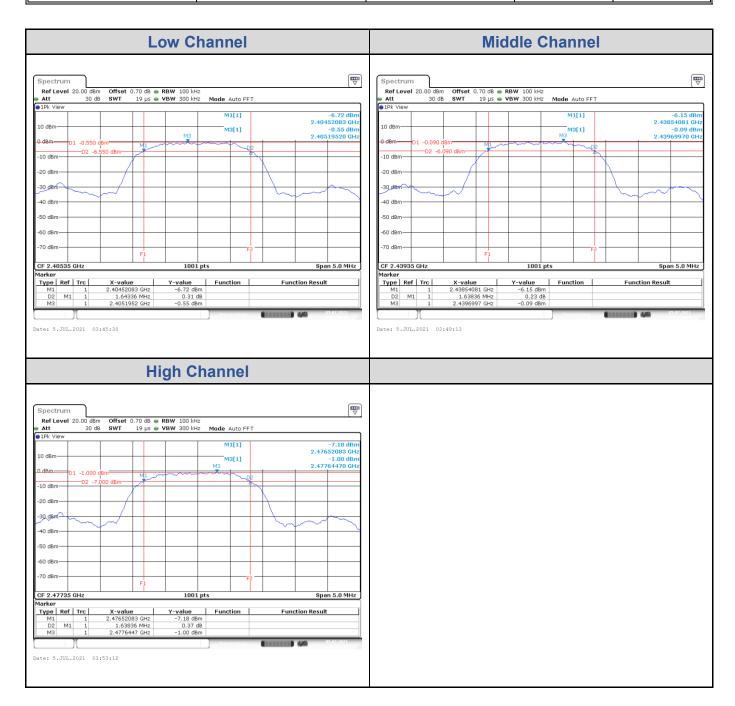
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Appendix A: Test Results of Conducted Test

Test Result of 6 dB Bandwidth

Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2405.35	1643.36	> 500	Pass
Middle Channel	2439.35	1638.36	> 500	Pass
High Channel	2477.35	1638.36	> 500	Pass





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Test Result of 99% Occupied Bandwidth

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2405.35	1.913
Middle Channel	2439.35	1.913
High Channel	2477.35	1.918



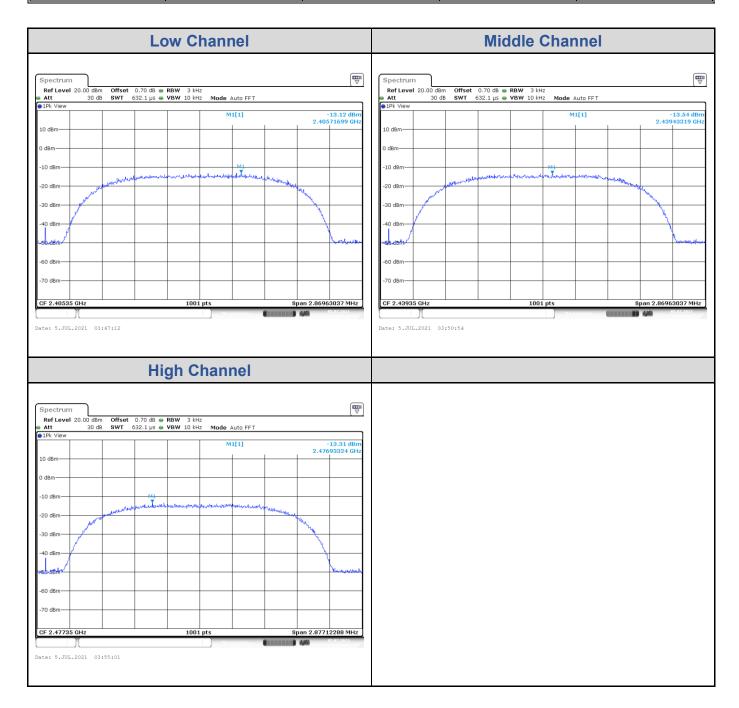


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Test Result of Power Spectral Density

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2405.35	-13.12	8	Pass
Middle Channel	2439.35	-13.54	8	Pass
High Channel	2477.35	-13.31	8	Pass

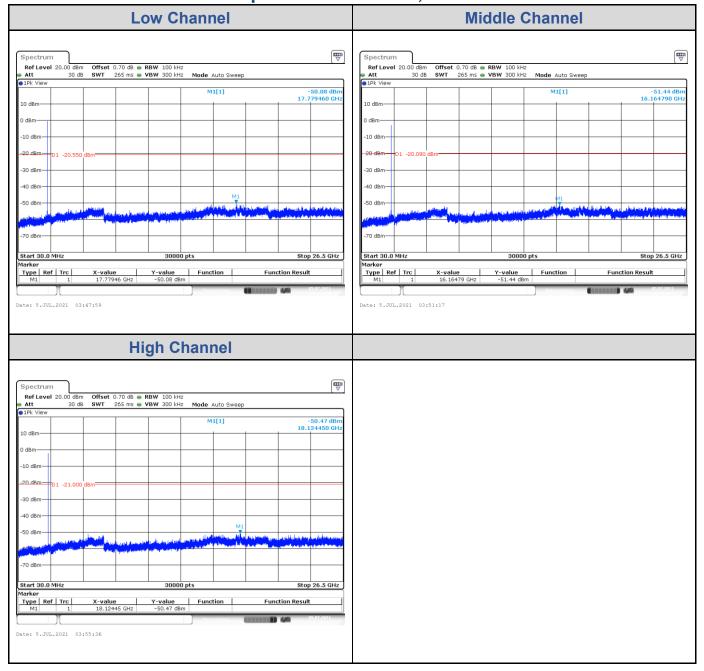




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Test Result of Conducted Spurious Emissions, Tx Mode

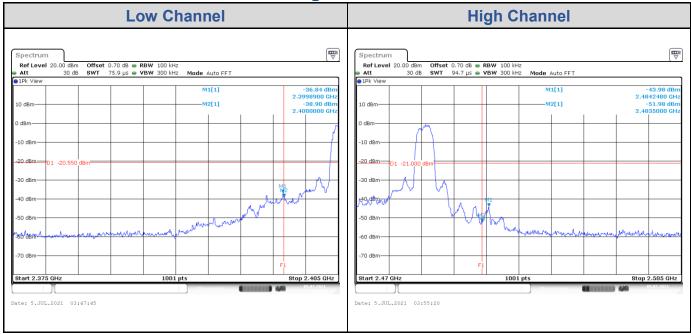




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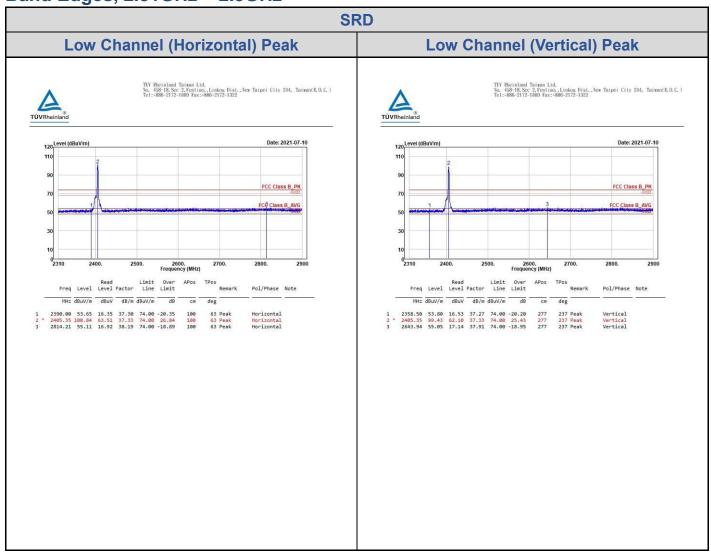
Test Result of Conducted Band Edge, Tx Mode



Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

Band Edges, 2.31GHz ~ 2.9GHz





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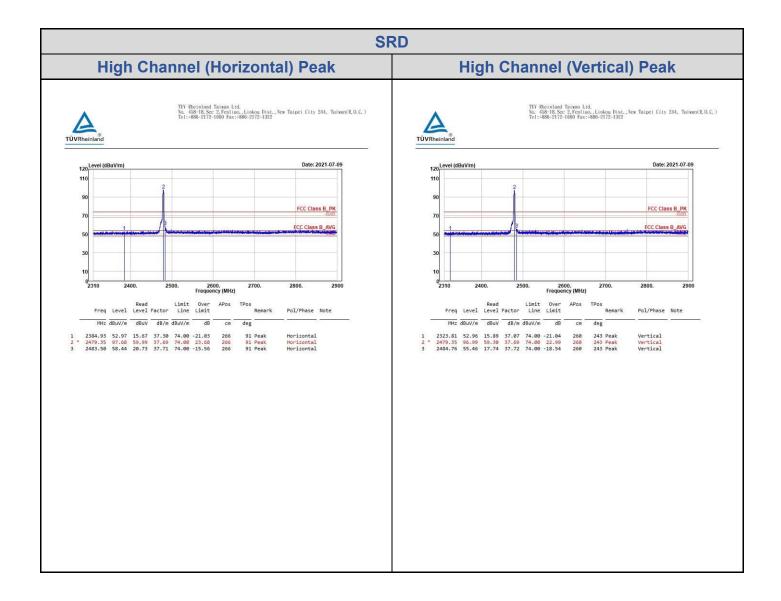




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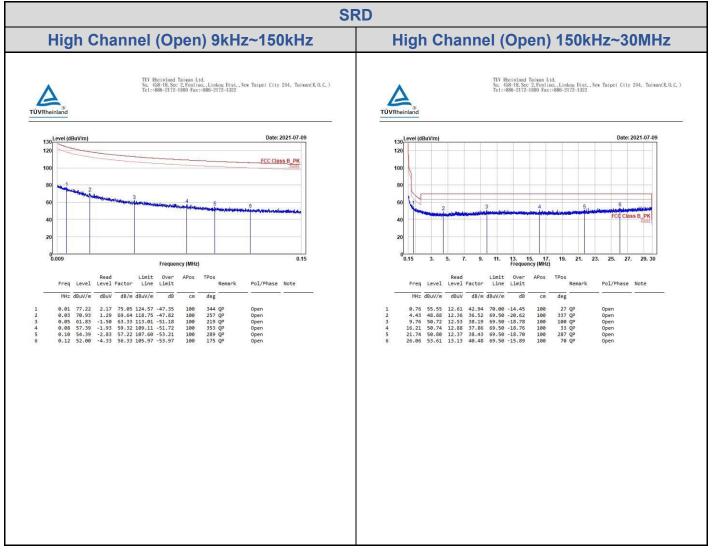


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Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

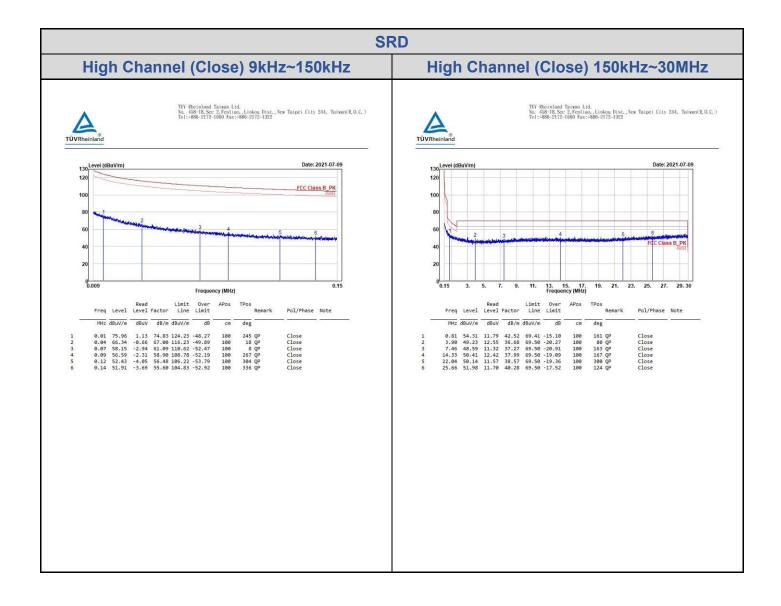




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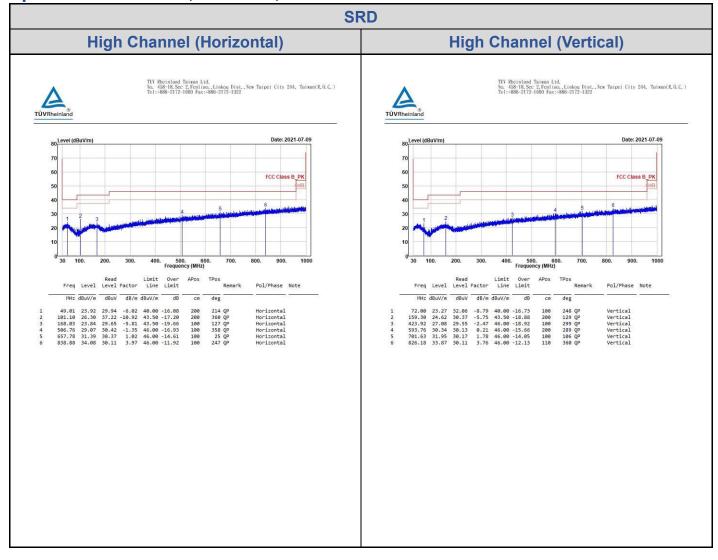


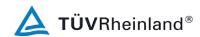
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Spurious Emissions, Tx Mode, 30MHz ~ 1GHz



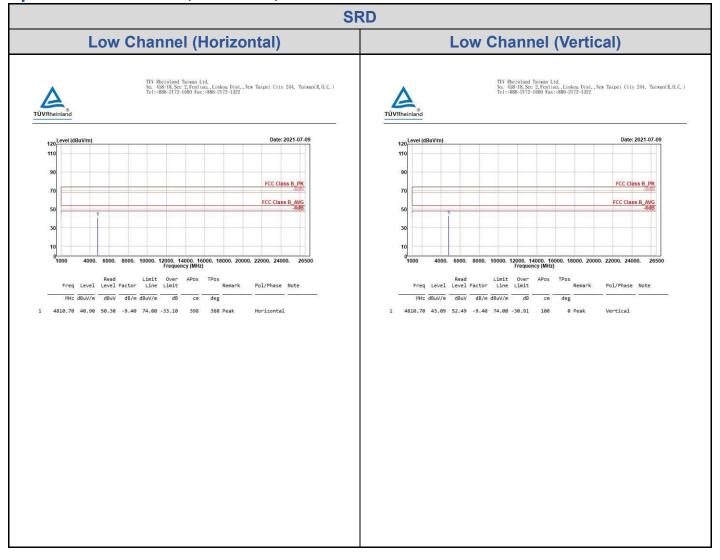


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Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz





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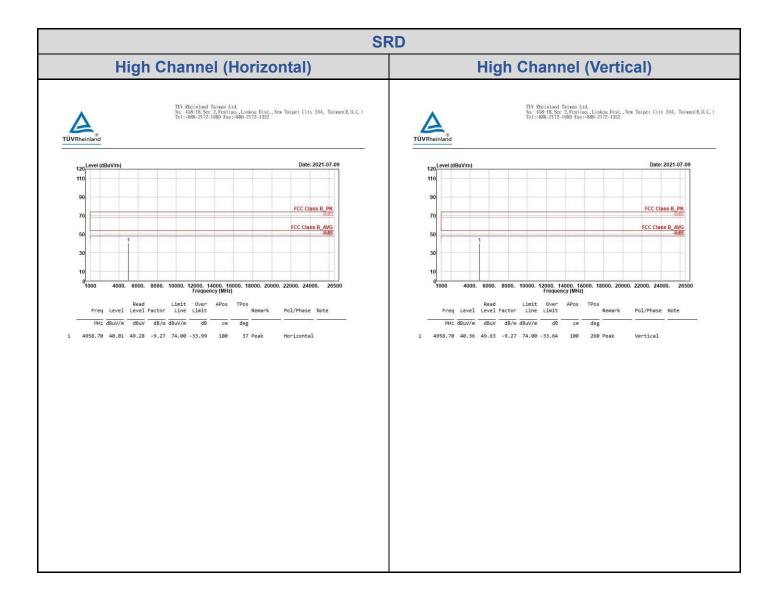




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Mains Conducted Emission, 150kHz ~ 30MHz

