Prüfbericht - Produkte *Test Report - Products*





	- mining				
Prüfbericht-Nr.: Test report no.:	CN239YK8 (P15 001	C-SRD)	Auftrags-Nr.: Order no.:	48218000	Seite 1 von 26 Page 1 of 26
Kunden-Referenz-Nr.: Client reference no.:	N/A		Auftragsdatum: Order date:	2023-04-13	
Auftraggeber: Client:	Acrox Technolog 4F, No. 89, Mins		Hu Dist. Taipei City,	R.O.C.	
Prüfgegenstand: Test item:	BE-PMRF3B				
Bezeichnung / Typ-Nr.: Identification / Type no.:	BE-PMRF3B				
Auftrags-Inhalt: Order content.	FCC Part 15C Te	est report			
Prüfgrundlage: Test specification:	FCC 47CFR Par	t 15: Subpari	t C Section 15.249		
Wareneingangsdatum: Date of sample receipt:	2023-04-11				
Prüfmuster-Nr.: Test sample no:	A003454062-002	2			
Prüfzeitraum: Testing period:	2023-04-27 - 202	23-05-12			
Ort der Prüfung: Place of testing:	EMC/RF Taipei Site	Testing			
Prüflaboratorium: Testing laboratory:	Taipei Testing La	aboratories			
Prüfergebnis*: Test result*:	Pass				
überprüft von: compiled by: Datum: Date: 2023-05-16 Stellung / Position: Sonstiges / Other:	Anderson Anderson Senior Project	Chiu	genehmigt von: authorized by: Ausstellungsdatu Issue date: 2023 Stellung / Position	-05-16 Bre	enda Chen Project Manager
Zustand des Prüfgegens Condition of the test item a	t delivery:		Prüfmuster vollständ Test item complete	_	
P(ass) = entspricht o. * Legend: 1 = very good	g. Prüfgrundlage(n) F 2 = good 3	B = satisfactory	nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable	5 = mangelhaft N/T = nicht getestet 5 = poor
This test report only relates to	ieht sich nur auf da Ifältigt werden. Die o the a. m. test samp	s o.g. Prüfmu ser Bericht b le. Without pe	erechtigt nicht zur V	erwendung eines Prütenter this test report is r	fzeichens.

TUV Rheinland Taiwan Ltd. 11F., No. 758, Sec. 4, Bade Rd., Taipei 105, Taiwan, R.O.C. Mail: service-gc@tuv.com · Web: www.tuv.com



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TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.249 (a)	Field Strength of Fundamental Emissions	Pass
5.1.3	15.249 (d)	Radiated Spurious Emissions	Pass
5.1.4	15.215 (c)	20 dB Bandwidth	Pass
5.1.4	2.1049	Occupied Bandwidth	Pass
-	15.207	Mains Conducted Emission	N/A

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



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APPENDIX A - TEST RESULT OF RADIATED EMISSIONS

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT



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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN239YK8 (P15C-SRD) 001	Original Release	2023-05-16



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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 Radiated Emissions Appendix SP - Photographs of Test Setup Appendix EP - Photographs of EUT**

Applied Standard and Test Levels

```
Radio
```

FCC 47CFR Part 15: Subpart C Section 15.249 ANSI C63.10:2013

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.: 180491 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 BE-PMRF3B. 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	BE-PMRF3B
Type Identification	BE-PMRF3B
FCC ID	PRDMU125

Technical Specification of EUT

Item	EUT information
Operating Frequency	2402 ~ 2480 MHz
Operation Voltage	1.5 Vdc
Modulation	GFSK
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4



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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 equipment under test (EUT) was configured to measure its maximum emission level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Carrier Frequency and Channel

Channel	Freq. (MHz)						
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



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4.3 Test Operation and Test Software

Setup for testing: It was used to enable the operation modes through pressing button listed as below.

The samples were used as follows: A003454062-002

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

	Applicable To				
EUT Configure Mode	Field Strength of Fundamental Emissions	Radiated Spurious Emissions	20 dB Bandwidth & Occupied Bandwidth	Mains Conducted Emission	Description
-	\checkmark	\checkmark	\checkmark	-	-

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.

Field Strength of Fundamental 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	Available Frequency (MHz)	Tested Frequency (MHz)
-	2402 ~ 2480	2402, 2440, 2480

Radiated Spurious Emission 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.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	2402 ~ 2480	2402, 2440, 2480

Radiated Spurious Emission 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)
-	2402 ~ 2480	2480

20 dB Bandwidth & Occupied Bandwidth

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)
-	2402 ~ 2480	2402, 2440, 2480

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	22.6-24.5 °C	52-54 %	Roger Liao
Field Strength of Fundamental Emissions	22.6-24.5 °C	52-54 %	Roger Liao
20 dB Bandwidth & Occupied Bandwidth	22.6-24.5 °C	52-54 %	Roger Liao



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4.4 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

None

Support Unit

None

Test Setup Diagram 4.5

<Radiated Spurious Emissions mode>

[EUT	
		*Table



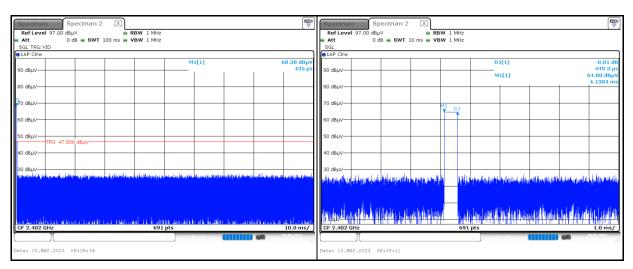
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4.6 Duty Cycle of Test Signal

Duty cycle correction factor = $20 \log(\text{Duty cycle}) = 20 \log(0.4493/100) = -46.95$





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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 EUT has an antenna with a directional gain of 3.22 dBi. The antenna is a PCB antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.



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5.1.2 Field Strength of Fundamental Emissions

Limit

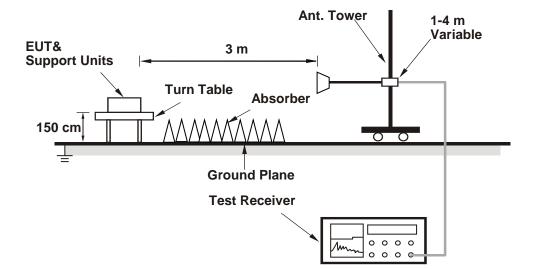
The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (microvolts/meter)	Field Strength of Harmonics (microvolts/meters)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500
24 ~ 24.25 GHz	250	2500

Kind of Test Site

3m Semi-Anechoic Chamber

Test Setup



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



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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	2022/11/17	2023/11/16			
HF-AMP + AC source	EMCI	EM01G18GA	980635	2023/2/16	2024/2/15			
HF-AMP + AC source	EMCI	EMC184045SE	980656	2023/1/6	2024/1/5			
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2023/3/31	2024/3/30			
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	2727A05146	2023/2/16	2024/2/15			
, , ,		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	2023/1/4	2024/1/3			
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A			



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Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) or 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. All modes of operation were investigated and the worst-case emissions are reported.
- 4. 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.
- 5. The calculation formula ix explained as follows: Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Fundamental Frequency (MHz)	Antenna Orientation	Detector or calculated value	Level (dBuV/m)	Limit (dBuV/m)	Result
	Horizontal	Peak	77.00	114.00	Pass
2402	HUHZUHIAI	Average	75.42	94.00	Pass
2402	Vertical	Peak	73.41	114.00	Pass
	venical	Average	72.14	94.00	Pass
	Horizontal	Peak	75.84	114.00	Pass
2440		Average	74.72	94.00	Pass
	Vertical	Peak	70.18	114.00	Pass
	ventical	Average	68.61	94.00	Pass
	Horizontal	Peak	74.77	114.00	Pass
2490		Average	74.00	94.00	Pass
2480	Vartical	Peak	71.81	114.00	Pass
	Vertical	Average	70.75	94.00	Pass

Test Results

Please refer to Appendix A.



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5.1.3 Radiated Spurious Emissions

Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation.

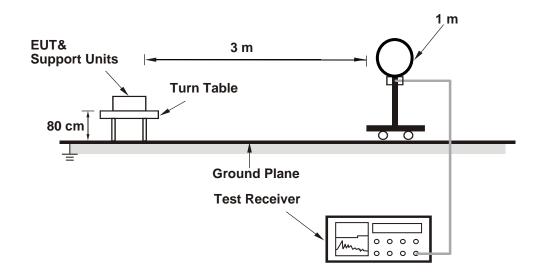
Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Kind of Test Site

3m Semi-Anechoic Chamber

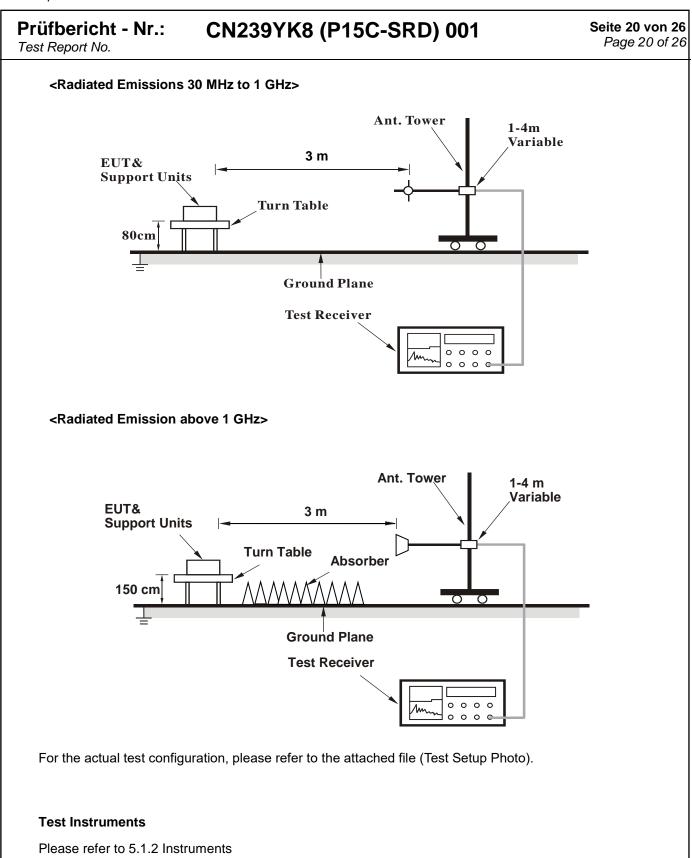
Test Setup

<Radiated Emissions below 30 MHz>





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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. All modes of operation were investigated and the worst-case emissions are reported.
- 4. 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.
- 5. The average value of harmonic frequency is: Average value = Peak value + 20 log(Duty cycle) Where the duty cycle correction factor is calculated from following formula: 20 log(Duty cycle) = 20 log(0.004493) = -46.95 dB



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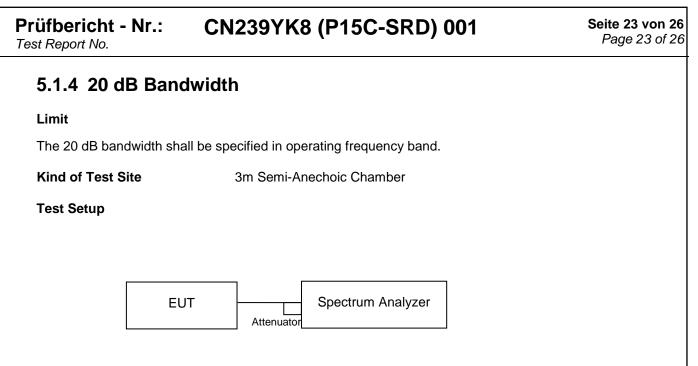
Test Results

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

Please refer to Appendix A.

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Test Instruments

	Kind of	Manufacturer	Turno	S/N	Calibration	Calibration	Test	Date
E	Equipment	Manufacturer	Туре	5/N	Date	Due Date	From	Until
	Signal Analyzer	R&S	FSV40	101508	2023/4/26	2024/4/24	2023/5/12	2023/5/12

Test Procedures

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.



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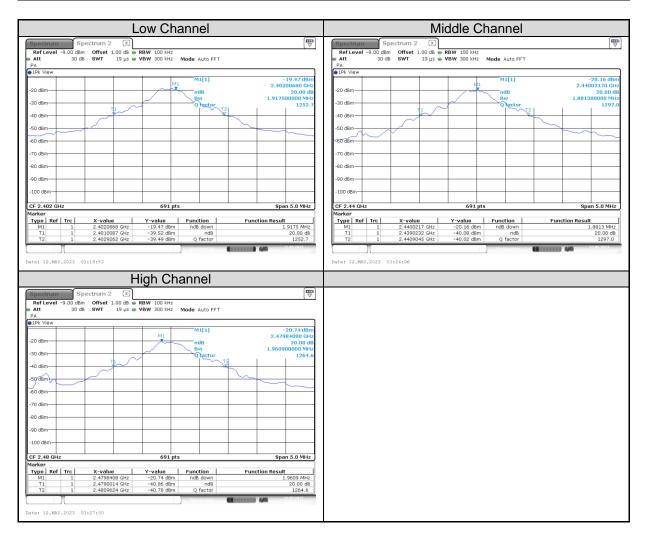
Test Report No.

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Test Results

Channel	Channel Frequency (MHz)	20 dB Bandwidth (MHz)
Low Channel	2402	1.918
Middle Channel	2440	1.881
High Channel	2480	1.961





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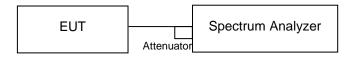
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5.1.5 Occupied Bandwidth

Kind of Test Site

Shielded room

Test Setup



Test Instruments

Kind of	Manufacturer	Turne	C/N	Calibration	Calibration	Test	Date
Equipment	Manufacturer	Туре	S/N	Date	Due Date	From	Until
Signal Analyzer	R&S	FSV40	101508	2023/4/26	2024/4/24	2023/5/12	2023/5/12

Test Procedures

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 Sampling. 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.



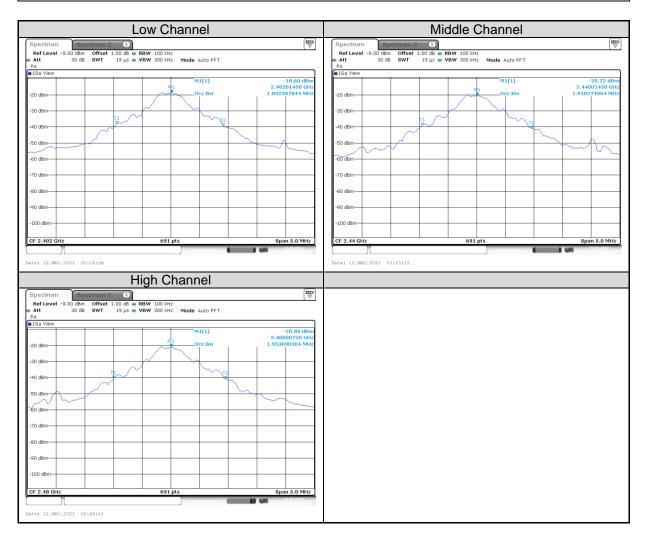
Prüfbericht - Nr.: CN239YK8 (P15C-SRD) 001

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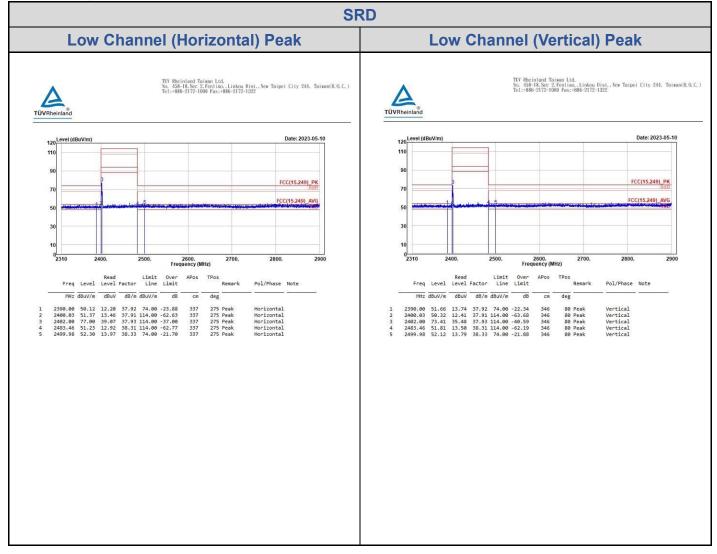
Test Results

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
Low Channel	2402	1.852
Middle Channel	2440	1.910
High Channel	2480	1.954



Appendix A: Test Results of Radiated Spurious Emissions Test

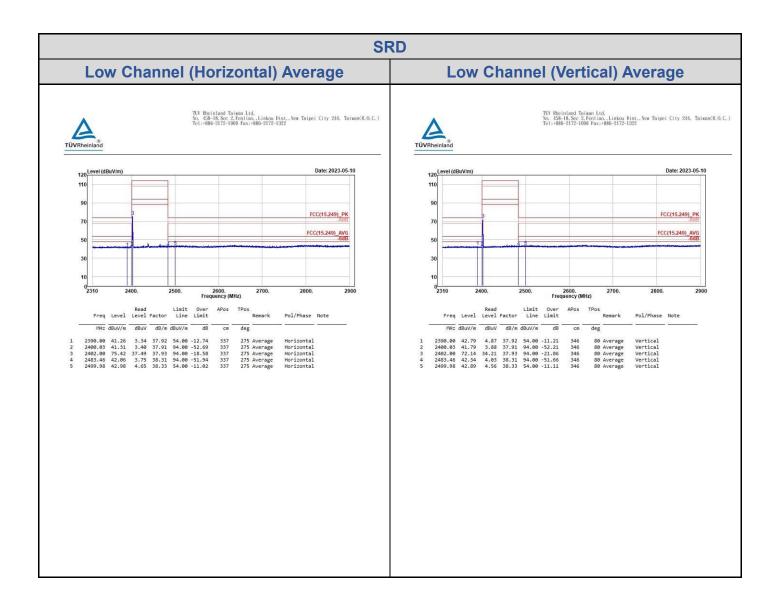
Band Edges, 2.31GHz ~ 2.9GHz





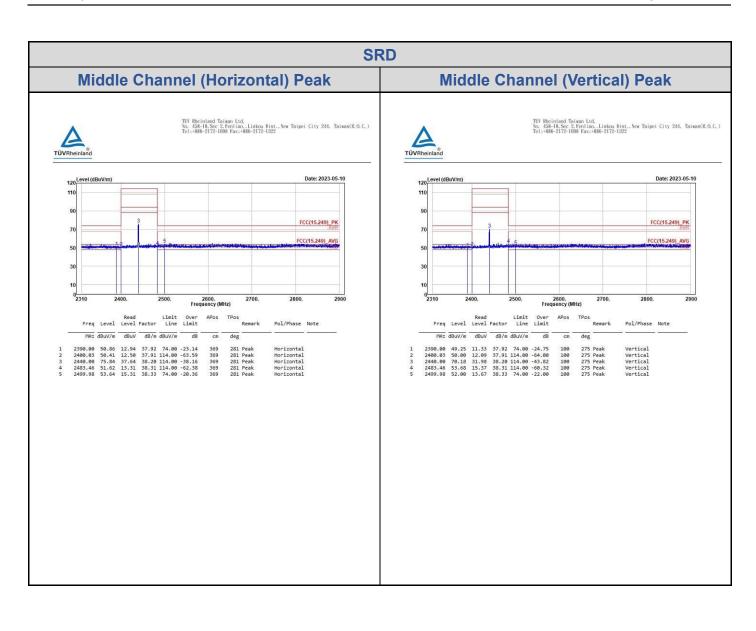
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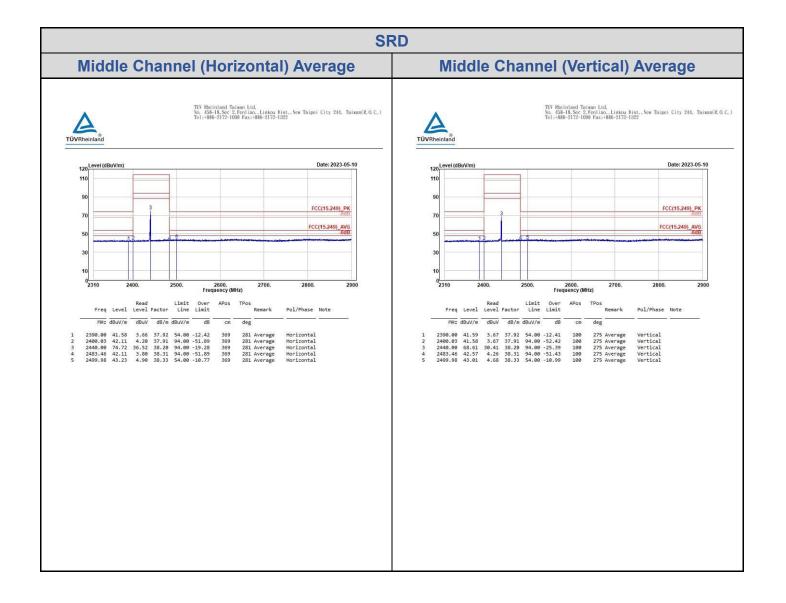




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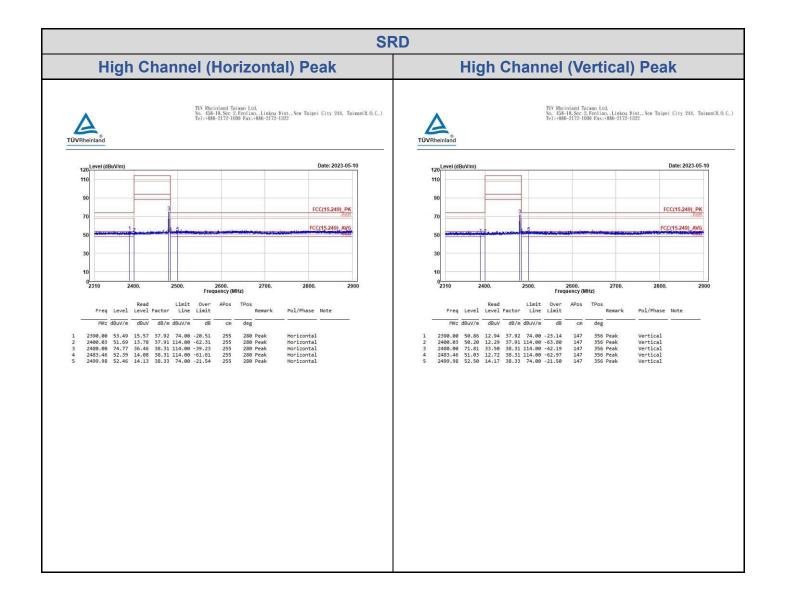
Prüfbericht - Nr.:

Test Report No.





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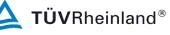




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Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

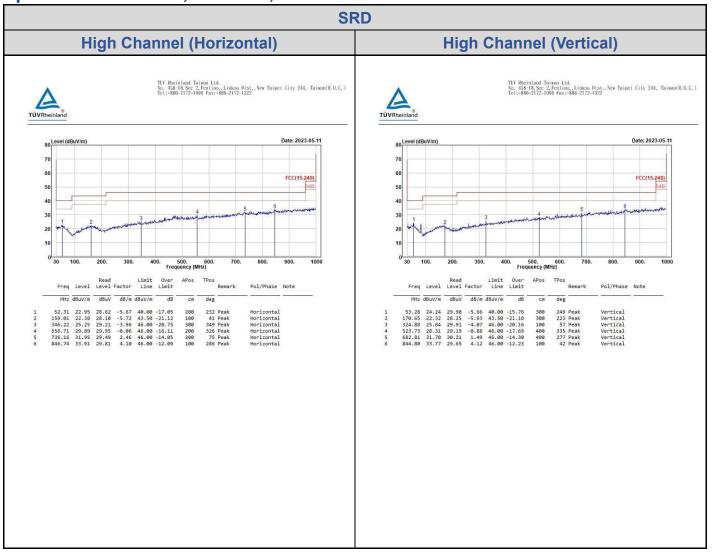


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Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

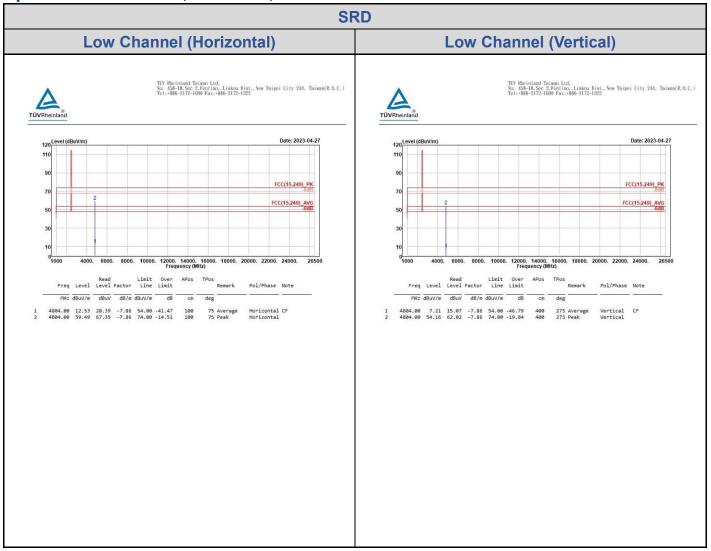


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Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz





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