

Roca Sanitaryware(Suzhou) Co.,Ltd RF TEST REPORT

Report Type:

FCC Part 15.249 & ISED RSS-210 RF report

Model: ZS880200151A

REPORT NUMBER: 240700262HAN-001

ISSUE DATE: January 11, 2025

DOCUMENT CONTROL NUMBER: TTRF15.249 V1 © 2018 Intertek





Intertek Testing Services (Shanghai FTZ) Co., Ltd Building No.86, 1198 Qinzhou Road (North) Caohejing Development Zone Shanghai 200233, China

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Applicant:	Roca Sanitaryware(Suzhou) Co.,Ltd 477, Zhong Nan Road, Suzhou Industrial Park, Suzhou, Jiangsu, China
Manufacturer:	Same as applicant
Factory:	Same as applicant
FCC ID:	2BKHX-A80313600C
IC:	32908-A80313600C

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:
47CFR Part 15 (2023): Radio Frequency Devices (Subpart C)
ANSI C63.10 (2020): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

RSS-210 Issue 11 (June 2024): Licence-Exempt Radio Apparatus: Category I Equipment

RSS-Gen Issue 5 (April 2018): General Requirements for Compliance of Radio Apparatus

PREPARED BY:

REVIEWED BY:

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Revision History

Report No.	Version	Description	Issued Date
240700262HAN-001	Rev. 01	Initial issue of report	January 11, 2025



TEST ITEM	FCC REFERANCE	IC REFERANCE	RESULT
Radiated emission	15.249 & 15.209	RSS-210 Issue 11 Clause B.10	Pass
Power line conducted emission	15.207	RSS-Gen Issue 5 Clause 8.8	NA
Assigned bandwidth (20dB bandwidth)	15.215(c)	RSS-Gen Issue 5 Clause 6.7	Pass
Antenna requirement	15.203	-	Pass

Measurement result summary

Notes: 1: NA =Not Applicable

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1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Remote controller	
Type/Model:	ZS880200151A	
PMN:	ZS880200151A	
HVIN:	ZS880200151A	
	The EUT covered in the report is RF remote controller with 2.4GHz as	
Description of EUT:	carrier.	
Rating:	DC 3V	
Category of EUT:	Class B	
EUT type:	Table top 🔲 Floor standing	
Software Version:	/	
Hardware Version:	DR-B577-V1.0	
Sample received date:	November 1, 2024	
Date of test:	November 20, 2024 ~ November 30, 2024	

1.2 Technical Specification

Frequency Range:	2405MHz ~ 2470MHz	
Support Standards:	SRD	
Type of Modulation:	GFSK	
	Mobile	
	🔀 Portable	
Product Type:	Fix Location	
Channel Number:	4	
Antenna Information:	PCB antenna, 2dBi	

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1.3 Description of Test Facility

Name	:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.	
Address	:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China	
Telephone	:	86 21 61278200	
Telefax	:	86 21 54262353	
-	:	CNAS Accreditation Lab	
recognized, certified,		Registration No. CNAS L21189	
or accredited by these		FCC Accredited Lab	
organizations		Designation Number: CN0175	
		IC Registration Lab	
		CAB identifier.: CN0014	
		VCCI Registration Lab	
		Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-	
		12252)	
		A2LA Accreditation Lab	
		Certificate Number: 3309.02	

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2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2023): Radio Frequency Devices (Subpart C) **ANSI C63.10 (2020):** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices **RSS-210 Issue 11 (June 2024):** Licence-Exempt Radio Apparatus: Category I Equipment

RSS-210 Issue 11 (June 2024): Licence-Exempt Radio Apparatus: Category I Equipment **RSS-Gen Issue 5 (April 2018):** General Requirements for Compliance of Radio Apparatus

2.2 Mode of operation during the test

The EUT is a handheld device, so three axes (X, Y, Z) were observed while the test receiver worked as "max hold" continuously and the highest reading among the whole test procedure was recorded.

While testing the transmitting mode of EUT, the internal modulation and continuous transmission were applied.

- 1) Radiated test mode: EUT transmitted signal with RF antenna.
- 2) Conducted test mode: EUT transmitted signal from RF port connected directly.

Frequency Band (MHz)	24000 ~ 2483.5	
Channel	Frequency (MHz)	
0	2405	
1	2422	
2	2450	
3	2470	

The lowest, middle and highest channel were tested as representatives.

The test setting software is offered by the manufactory. The pre-scan for the conducted power with all rates in each modulation and bands was used, and the worst case was found and used in all test cases.

Test software and Power Setting parameter				
Test Software EMI_Test_Tool				
Working Mode	SRD			
Test Channel	2405MHz 2450MHz 2470MHz			
Power Setting	Default	Default	Default	



2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	SKET Auto EMC Test Software	Keleto	V3.0
Radiated emission	SKET Auto EMC Test Software	Keleto	V3.0

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
/	/	/	/
/	/	/	/

2.5 Test environment condition:

Test items	Temperature	Humidity
Fundamental & spurious emission & Restrict band radiated emission	24°C	53% RH
Power line conducted emission	NA	NA
Emission bandwidth & Transmission Time	24°C	49% RH



2.6 Instrument list

condu	cted Emission				
Used	Equipment	Manufacturer	Туре	Internal no.	Due date
	Test Receiver	R&S	ESR7	EC 6194	2025-02-27
	A.M.N.	R&S	ESH2-Z5	EC 3119	2025-11-18
	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2024-12-07
	Shielded room	Zhongyu	-	EC 2838	2025-01-11
Radiate	ed Emission			lists we al	
Used	Equipment	Manufacturer	Туре	Internal no.	Due date
	Test Receiver	R&S	ESIB 26	EC 3045	2025-08-18
	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2025-09-11
V	Pre-amplifier	tonscend	tap01018050	EC 6432-1	2024-12-07
V	Horn antenna	tonscend	bha9120d	EC 6432-2	2025-03-20
	Horn antenna	ETS	3117	EC 4792-1	2025-09-13
	Horn antenna	ΤΟΥΟ	HAP18-26W	EC 4792-3	2026-09-12
	Pre-amplifier	R&S	AFS42-00301800 -25-S-42	EC 5262	2025-06-14
V	Semi-anechoic chamber	Albatross project	-	EC 3048	2026-07-11
<mark>RF test</mark>					
Used	Equipment	Manufacturer	Туре	Internal no.	Due date
	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2025-03-05
N N	PXA Signal Analyzer Power sensor	Keysight Agilent	N9030A U2021XA	EC 5338 EC 5338-1	2025-03-05 2025-03-05
V	Power sensor	Agilent	U2021XA	EC 5338-1	2025-03-05
N	Power sensor Vector Signal Generator	Agilent Agilent	U2021XA N5182B	EC 5338-1 EC 5175	2025-03-05 2025-03-05
र र	Power sensor Vector Signal Generator MXG Analog Signal Generator	Agilent Agilent Agilent	U2021XA N5182B N5181A	EC 5338-1 EC 5175 EC 5338-2	2025-03-05 2025-03-05 2025-03-09
र र	Power sensor Vector Signal Generator MXG Analog Signal Generator Test Receiver	Agilent Agilent Agilent R&S	U2021XA N5182B N5181A ESCI 7	EC 5338-1 EC 5175 EC 5338-2 EC 4501	2025-03-05 2025-03-05 2025-03-09 2025-03-09
र र	Power sensor Vector Signal Generator MXG Analog Signal Generator Test Receiver Climate chamber	Agilent Agilent Agilent R&S GWS	U2021XA N5182B N5181A ESCI 7 MT3065	EC 5338-1 EC 5175 EC 5338-2 EC 4501 EC 6021	2025-03-05 2025-03-05 2025-03-09 2025-03-07
고 <u>국</u> <u>국</u>	Power sensor Vector Signal Generator MXG Analog Signal Generator Test Receiver Climate chamber Spectrum Analyzer Universal Radio Communication	Agilent Agilent Agilent R&S GWS Keysight	U2021XA N5182B N5181A ESCI 7 MT3065 N9030b	EC 5338-1 EC 5175 EC 5338-2 EC 4501 EC 6021 EC 6078	2025-03-05 2025-03-09 2025-03-09 2025-03-07 2025-03-18
고 <u>국</u> <u>국</u>	Power sensor Vector Signal Generator MXG Analog Signal Generator Test Receiver Climate chamber Spectrum Analyzer Universal Radio Communication Tester	Agilent Agilent Agilent R&S GWS Keysight R&S	U2021XA N5182B N5181A ESCI 7 MT3065 N9030b CMW500	EC 5338-1 EC 5175 EC 5338-2 EC 4501 EC 6021 EC 6078 EC 6209	2025-03-05 2025-03-09 2025-03-09 2025-03-07 2025-03-18 2025-01-30
	Power sensor Vector Signal Generator MXG Analog Signal Generator Test Receiver Climate chamber Spectrum Analyzer Universal Radio Communication Tester Signal generator	Agilent Agilent Agilent R&S GWS Keysight R&S Agilent	U2021XA N5182B N5181A ESCI 7 MT3065 N9030b CMW500 N5182A	EC 5338-1 EC 5175 EC 5338-2 EC 4501 EC 6021 EC 6078 EC 6209 EC 6172	2025-03-05 2025-03-09 2025-03-09 2025-03-07 2025-03-18 2025-01-30 2025-08-06
	Power sensor Vector Signal Generator MXG Analog Signal Generator Test Receiver Climate chamber Spectrum Analyzer Universal Radio Communication Tester Signal generator Signal generator	Agilent Agilent Agilent R&S GWS Keysight R&S Agilent	U2021XA N5182B N5181A ESCI 7 MT3065 N9030b CMW500 N5182A	EC 5338-1 EC 5175 EC 5338-2 EC 4501 EC 6021 EC 6078 EC 6209 EC 6172	2025-03-05 2025-03-09 2025-03-09 2025-03-07 2025-03-18 2025-01-30 2025-08-06
Image: Constraint of the second s	Power sensor Vector Signal Generator MXG Analog Signal Generator Test Receiver Climate chamber Spectrum Analyzer Universal Radio Communication Tester Signal generator Signal generator onal instrument	Agilent Agilent Agilent R&S GWS Keysight R&S Agilent Agilent	U2021XA N5182B N5181A ESCI 7 MT3065 N9030b CMW500 N5182A N5181A	EC 5338-1 EC 5175 EC 5338-2 EC 4501 EC 6021 EC 6078 EC 6078 EC 6172 EC 6172	2025-03-05 2025-03-09 2025-03-09 2025-03-07 2025-03-18 2025-01-30 2025-08-06 2025-08-06



2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum peak output power	\pm 0.68dB
Radiated Emissions in restricted frequency bands below 1GHz	\pm 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 4.80dB
Emission outside the frequency band	\pm 4.80dB
Power line conducted emission	± 2.7dB

TEST REPORT

3 Radiated emission

Test result: PASS

3.1 Limit

Fundamental Frequency (MHz)	Fundamental limit (dBμV/m)	Harmonic limit (dBμV/m)
902 - 928	94	54
2400 - 2483.5	94	54
5725 - 5875	94	54
24000 - 24250	108	68

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits:

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

3.2 Measurement Procedure

For Radiated emission below 30MHz:

- 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) Both X and Y axes 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 9kHz at frequency below 30MHz.

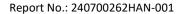


For Radiated emission above 30MHz:

- a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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 detect 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:

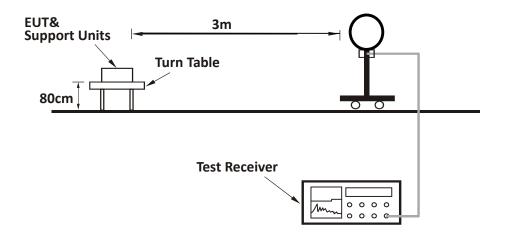
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 3 x RBW (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported



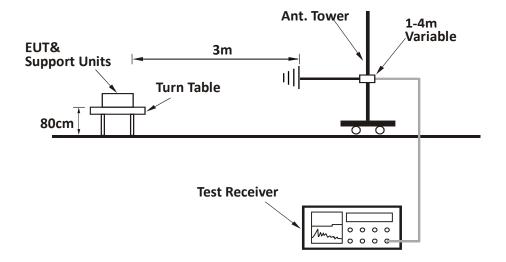


3.3 Test Configuration

For Radiated emission below 30MHz:

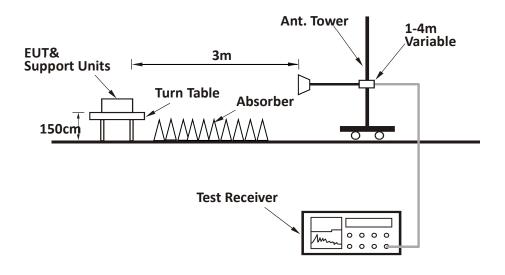


For Radiated emission 30MHz to 1GHz:





For Radiated emission above 1GHz:

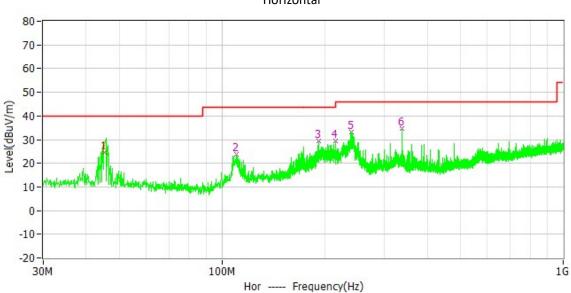


TEST REPORT

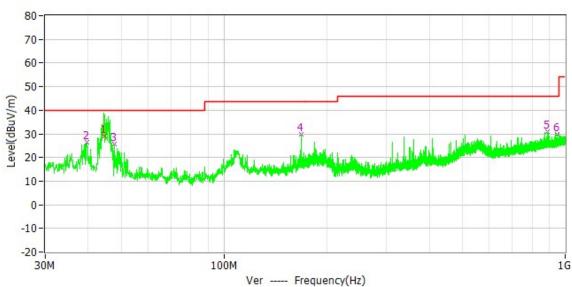
3.4 Test Results of Radiated Emissions

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

The worst waveform from 30MHz to 1000MHz is listed as below:



Horizontal





TEST REPORT

Test data below 1GHz

Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
Н	45.423	24.52	14.30	40.00	15.48	РК
Н	110.316	23.72	11.19	43.50	19.78	РК
Н	191.990	29.28	12.22	43.50	14.22	РК
Н	215.949	29.31	12.19	43.50	14.19	РК
Н	239.423	33.23	13.16	46.00	12.77	РК
Н	337.490	34.57	16.27	46.00	11.43	РК
V	44.650	29.17	14.20	40.00	10.83	РК
V	39.700	26.55	13.91	40.00	13.45	РК
V	47.751	25.68	14.43	40.00	14.32	РК
V	168.807	29.83	14.15	43.50	13.67	РК
V	885.928	31.04	26.95	46.00	14.96	РК
V	948.784	29.73	27.51	46.00	16.27	РК

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

- 2. Corrected Reading = Original Receiver Reading + Correct Factor
- 3. Margin = Limit Corrected Reading
- 4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

TEST REPORT

Test result above 1GHz:

СН	Antenna	Frequency (MHz)	Corrected Reading (dBµV/m)	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)	Detector
	н	2390.00	35.42	31.71	74.00	38.58	РК
	V	2390.00	40.92	31.71	74.00	33.08	РК
	Н	2405.00	104.51	31.75	114.00	9.49	РК
	Н	2405.00	74.42	31.75	94.00	19.58	AV
	V	2405.00	103.20	31.75	114.00	10.80	РК
	V	2405.00	73.11	31.75	94.00	20.89	AV
	Н	4810.00	57.62	-15.14	74.00	16.38	РК
L	Н	4810.00	26.23	-15.14	54.00	27.77	AV
	V	4810.00	57.54	-15.14	74.00	16.46	РК
	V	4810.00	25.44	-15.14	54.00	28.56	AV
	Н	7215.00	63.72	-9.04	74.00	10.28	РК
	Н	7215.00	28.31	-9.04	54.00	25.69	AV
	V	7215.00	63.80	-9.04	74.00	10.20	РК
	V	7215.00	29.13	-9.04	54.00	24.87	AV
	н	2450.00	104.54	31.78	114.00	9.46	РК
	Н	2450.00	74.45	31.78	94.00	19.55	AV
	V	2450.00	102.34	31.78	114.00	11.66	РК
	V	2450.00	72.25	31.78	94.00	21.75	AV
	Н	4900.00	57.62	-15.07	74.00	16.38	РК
М	Н	4900.00	25.21	-15.07	54.00	28.79	AV
	V	4900.00	51.74	-15.07	74.00	22.26	РК
	Н	7350.00	63.86	-8.83	74.00	10.14	РК
	Н	7350.00	28.65	-8.83	54.00	25.35	AV
	V	7350.00	64.01	-8.83	74.00	9.99	РК
	V	7350.00	28.69	-8.83	54.00	25.31	AV
	Н	2470.00	104.61	31.84	114.00	9.39	РК
	Н	2470.00	74.52	31.84	94.00	19.48	AV
	V	2470.00	102.55	31.84	114.00	11.45	РК
ц	V	2470.00	72.46	31.84	94.00	21.54	AV
Н	Н	2483.50	34.10	31.88	74.00	39.90	РК
	V	2483.50	50.50	31.88	74.00	23.50	РК
	Н	4940.00	57.79	-15.03	74.00	16.21	РК
	Н	4940.00	26.04	-15.03	54.00	27.96	AV

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V	4940.00	52.24	-15.03	74.00	21.76	РК
Н	7410.00	64.35	-8.75	74.00	9.65	РК
Н	7410.00	28.90	-8.75	54.00	25.10	AV
V	7410.00	64.09	-8.75	74.00	9.91	РК
V	7410.00	29.80	-8.75	54.00	24.20	AV

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.

2. Corrected Reading = Original Receiver Reading + Correct Factor

3. Margin = Limit - Corrected Reading

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

TEST REPORT

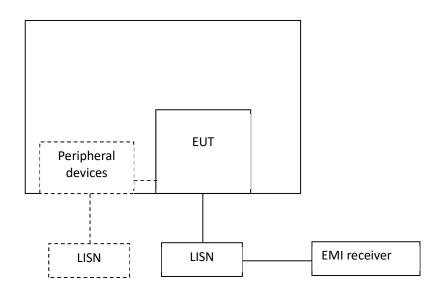
4 Power line conducted emission

Test result: NA

4.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBµV)		
	QP	AV	
0.15-0.5	66 to 56*	56 to 46 *	
0.5-5	56	46	
5-30	60	50	
* Decreases with the logarithm of the freq	uency.		

4.2 Test Configuration





4.3 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.



4.4 Test Results of Power line conducted emission

NA

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5 Assigned bandwidth (20dB bandwidth)

Test result: PASS

5.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission is contained within the allocated frequency band.

5.2 Measurement Procedure

The 20dB Bandwidth is measured using the Spectrum Analyzer. Set Span = 2 to 3 times the 20 dB bandwidth, RBW = approximately 1% of the 20 dB bandwidth, VBW>RBW, Sweep = auto, Detector = peak, Trace = max hold. The test was performed at 2 channels (lowest and highest channel).

5.3 Test Configuration





5.4 The results

Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	F⊾at 20dB BW (MHz)	F _H at 20dB BW (MHz)
2405	1.1869	1.0194	>2400.00	/
2450	1.1802	1.0265	/	/
2470	1.1698	1.0236	/	<2483.50
Limit	N/A	N/A	F _L >2400	F _H <2483.5
Result				



Channel 2450

TEST REPORT



Channel 2470





6 Antenna requirement

Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Result:

EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

END of the report