

FCC/IC- TEST REPORT

Report Number :	708882020319-00	Date of Issue: January 20, 2021	
Model	: FSYKQ04ZM		
Product Type	: Bluetooth Remote Control	<u> </u>	
Applicant	: Beijing Smartmi Electronic	c Technology Co., Ltd.	
Address	: Room 201-203, Unit 6, Bu	uilding A, No.66, Zhufang Road, Qinghe,	
	Haidian District, Beijing, 1	00085, P.R.China	
Production Facility	: Sichuan Changhong Elec	tronic Component Co., Ltd.	
Address	: Changhong Shuangchuang Intelligent Manufacturing Industrial		
	Park, Jinfeng Village, Ma	'an Avenue, Anzhou District, Mianyang	
	City, Sichuan Province, C	hina.	
Test Result :	■ Positive □ Negati	ve	
Total pages including Appendices :	33		

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval.



Table of Contents

1	Table of Contents	2
2	Details about the Test Laboratory	3
3	Description of the Equipment under Test	4
4	Summary of Test Standards	5
5	Summary of Test Results	6
6	General Remarks	7
7	Test Setups	8
8	Systems test configuration1	1
9	Technical Requirement	2
9.	1 Conducted peak output power 1	2
9.	2 6dB bandwidth and 99% Occupied Bandwidth1	4
9.	3 Power spectral density1	7
9.	4 Spurious RF conducted emissions 1	9
9.	5 Band edge 2	:3
9.	6 Spurious radiated emissions for transmitter2	.5
10	Test Equipment List	0
11	System Measurement Uncertainty3	1
12	Photographs of Test Set-ups3	2
13	Photographs of EUT3	3



2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

No.16 Lane, 1951 Du Hui Road,

Shanghai 201108,

P.R. China

FCC Registration

820234

No.:

IC Registration

25988

No.:

Telephone: +86 21 6141 0123 Fax: +86 21 6140 8600



3 Description of the Equipment under Test

Description of the Equipment Under Test

Product: Bluetooth Remote Control

Model no.: FSYKQ04ZM

FCC ID: 2AP98-FSYKQ04ZM

IC: 26864- FSYKQ04ZM

Options and accessories: NA

Rating: DC 1.5V

RF Transmission Frequency: 2402~2480MHz

No. of Operated Channel: 40

Modulation: GFSK

Data transmission rate: 1 Mbit/s

Antenna Type: Built-in Antenna

Antenna Gain: 1 dBi gain

Description of the EUT: The Equipment Under Test (EUT) is a Bluetooth Remote

Control with BT module.

We tested it and listed the worst data in this report.

The sample's mentioned in this report is supplied by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



4 Summary of Test Standards

Test Standards		
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES	
10-1-2014 Edition	Subpart C - Intentional Radiators	
RSS-Gen Issue 5 Amendment 1 March 2019 General Requirements for Compliance of Radio Apparatus		
RSS-247 Issue 2 February 2017	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices	

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10 (2013).



5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
-			Test	Tes	t Resu	ılt
Test Condition		Pages	Site	Pass	Fail	N/ A
§15.207 & RSS-GEN 8.8	Conducted emission AC power port		Site 1			
§15.247 (b) (3) & RSS-247 5.4(d)	Conducted peak output power	12-13	Site 1			
§15.247(a)(1) & RSS-247 5.1(b)	20dB bandwidth					
§15.247(a)(1) & RSS-247 5.1(b)	Carrier frequency separation					
§15.247(a)(1)(iii) & RSS-247 5.1(d)	Number of hopping frequencies					
§15.247(a)(1)(iii) & RSS-247 5.1(d)	Dwell Time					
§15.247(a)(2) & RSS-247 5.2(a) & RSSGEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	14-16	Site 1			
§15.247(e) & RSS-247 5.2(b)	Power spectral density	17-18	Site 1			
§15.247(d) & RSS-247 5.5	Spurious RF conducted emissions	19-22	Site 1			
§15.247(d) & RSS-247 5.5	Band edge	23-24	Site 1			
§15.247(d) & §15.209 & RSS- 247 5.5 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	25-29	Site 1			
§15.203 & RSS-Gen 6.8	Antenna requirement	See not	e 1			

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a Built-in Antenna, which gain is 1dBi. In accordance to §15.203 and RSS-Gen 6.8, It is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AP98-FSYKQ04ZM, IC: 26864- FSYKQ04ZM complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules and RSS-247, RSS-GEN.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- ☐ Not Performed

The Equipment under Test

- **Fulfills** the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date: December 24, 2020

Testing Start Date: December 29, 2020

Testing End Date: December 29, 2020

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

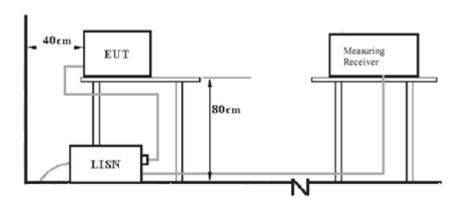
Reviewed by: Prepared by: Tested by:

Hui TONG EMC Section Manager Wenqiang LU EMC Project Engineer Jiaxi XU EMC Test Engineer



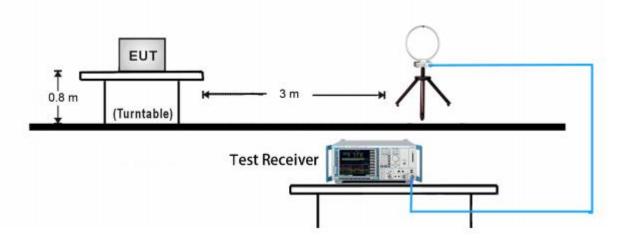
7 Test Setups

7.1 AC Power Line Conducted Emission test setups



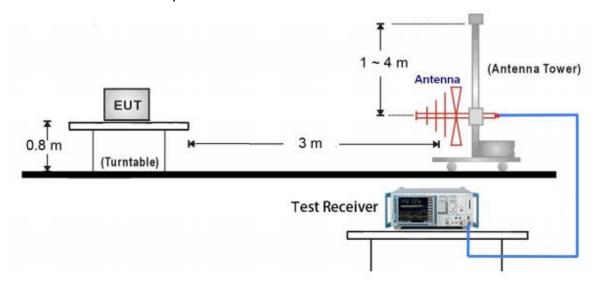
7.2 Radiated test setups

9kHz ~ 30MHz Test Setup:

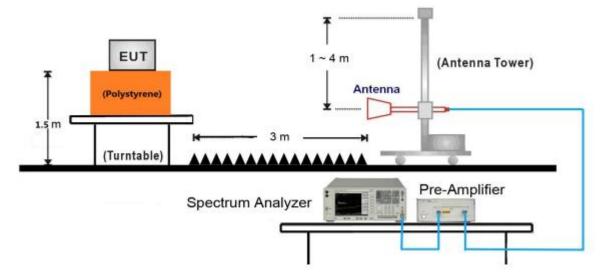




30MHz ~ 1GHz Test Setup:

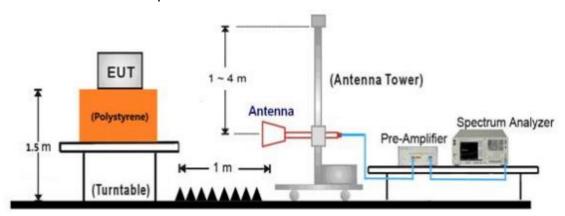


1GHz ~ 18GHz Test Setup:





18GHz ~ 25GHz Test Setup:



7.3 Conducted RF test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	X240	Notebook

Test software: prodtest

The system was configured to channel 0, 19, and 39 for the test.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.



9 Technical Requirement

9.1 Conducted peak output power

Test Method

- Use the following spectrum analyzer settings:
 RBW > the 6 dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW
 Sweep = auto, Detector function = peak, Trace = max hold.
- 2. Add a correction factor to the display.
- 3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

Limits

According to §15.247 (b) (1) & RSS-247 5.4(d), conducted peak output power limit as below:

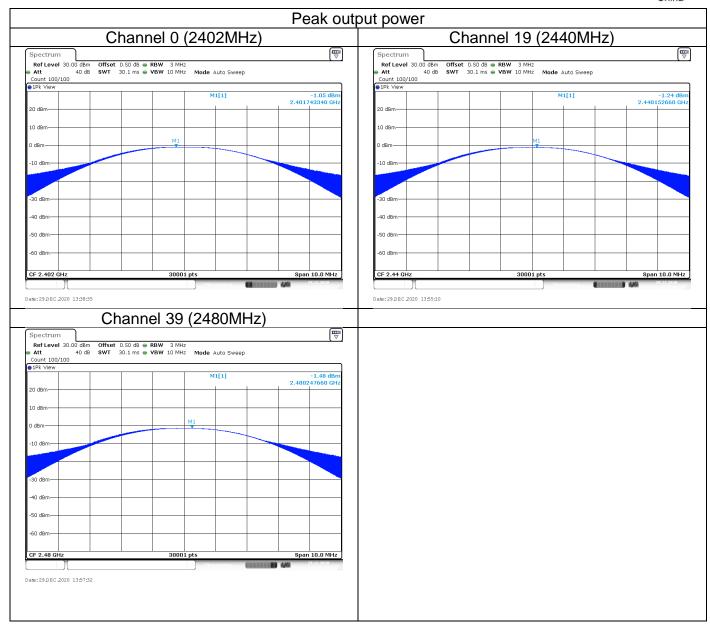
Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30
Frequency Range	Limit (EIRP)	Limit
MHz	W	dBm
2400-2483.5	≤4	≤36

Test result as below table

Frequency	Conducted Peak Output Power	Result
MHz	dBm	
Low channel 2402MHz	-1.05	Pass
Middle channel 2440MHz	-1.24	Pass
High channel 2480MHz	-1.48	Pass
Frequency	EIRP	Result
MHz	dBm	
Low channel 2402MHz	-0.05	Pass
Middle channel 2440MHz	-0.24	Pass
High channel 2480MHz	-0.48	Pass



China





9.2 6dB bandwidth and 99% Occupied Bandwidth

Test Method

- Use the following spectrum analyzer settings:
 RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

Test Method for 99 % Bandwidth

- Use the following spectrum analyzer settings: RBW=1% to 5% of the actual occupied, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

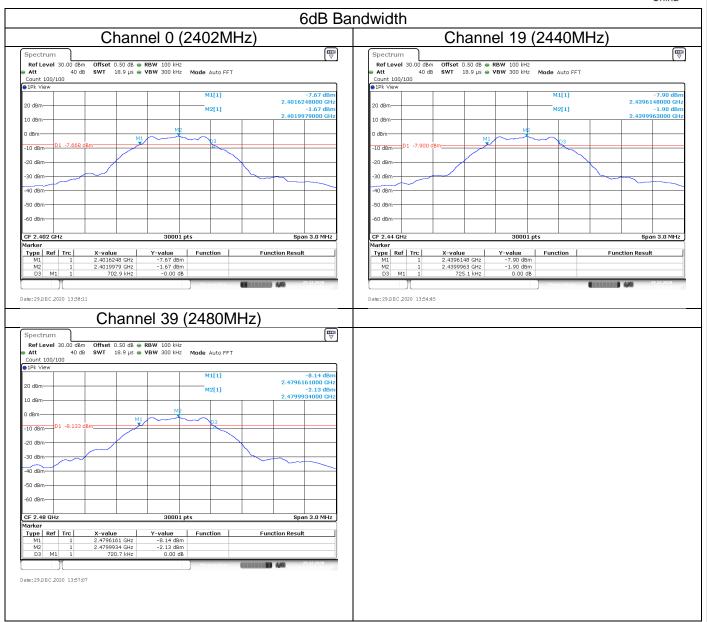
Limit [kHz]	
≥500	

Test result

Frequency	6dB bandwidth	99% occupied bandwidth	Result
MHz	kHz	MHz	
Top channel 2402MHz	703	1.065	Pass
Middle channel 2440MHz	725	1.069	Pass
Bottom channel 2480MHz	721	1.077	Pass

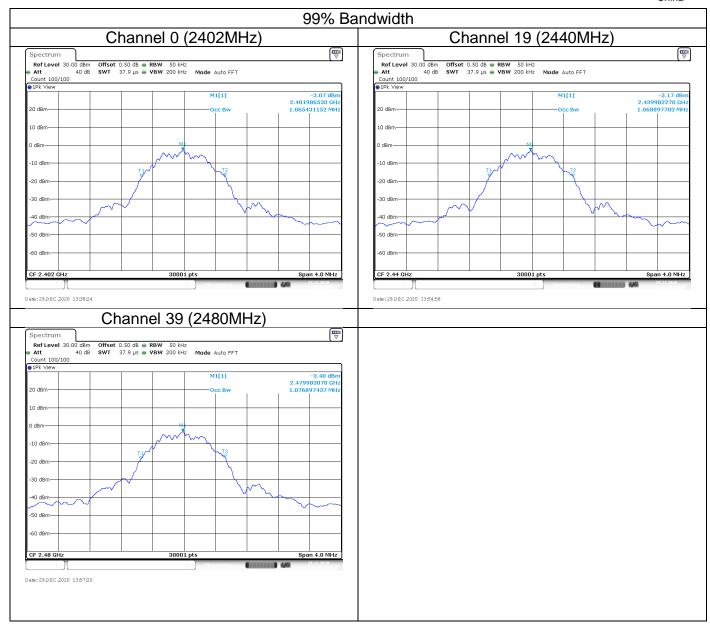


China





China





9.3 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- Set analyzer center frequency to DTS channel center frequency.
 RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm]	
≤8	

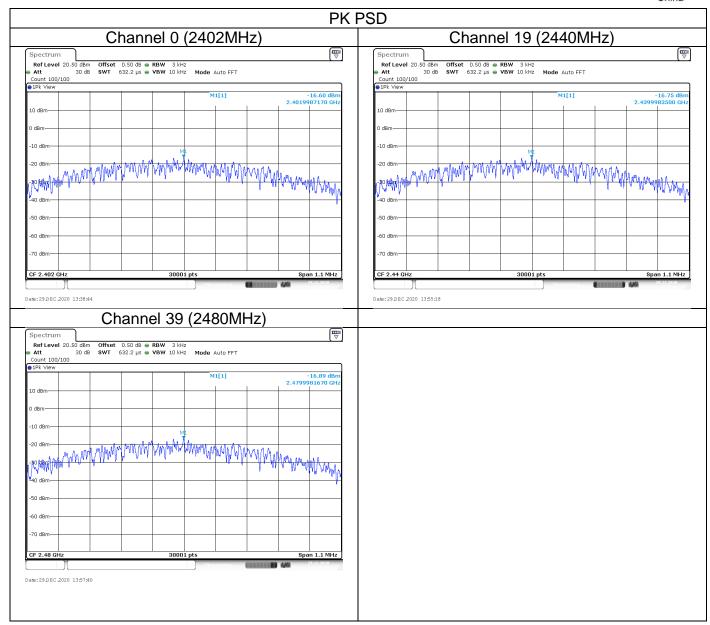
4 N/In:4/a

Test result

	1 IVIDIT/S	
	Power spectral	
Frequency	density	Result
MHz	dBm	
Top channel 2402MHz	-16.60	Pass
Middle channel 2440MHz	-16.75	Pass
Bottom channel 2480MHz	-16.89	Pass



China





9.4 Spurious RF conducted emissions

Test Method

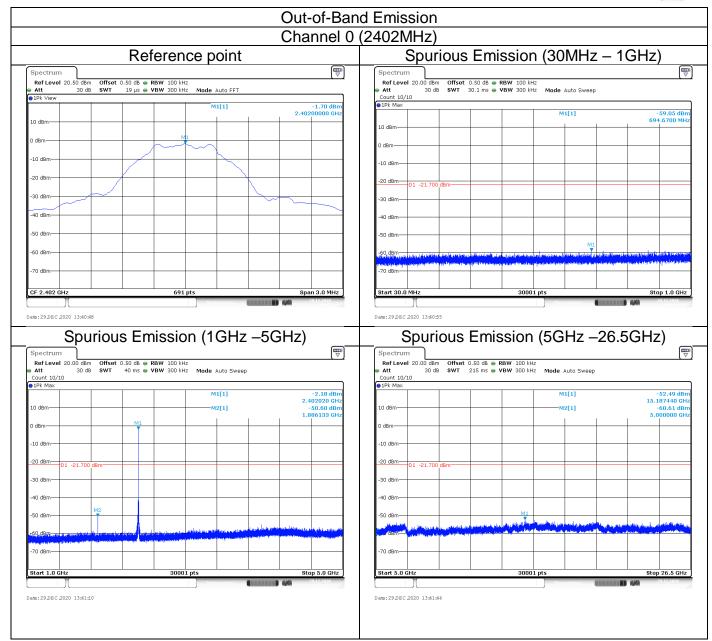
- 1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 3. Repeat above procedures until other frequencies measured were completed.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



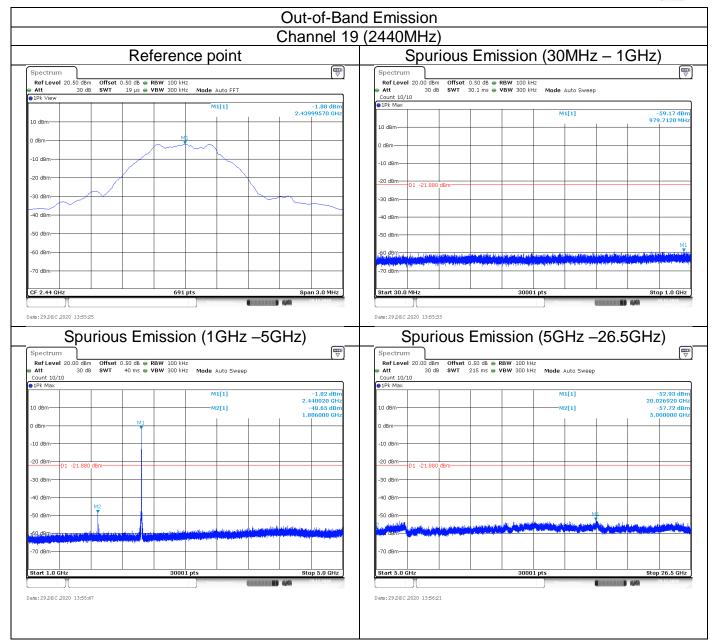
China



Note: The emission which exceed the limit is the fundamental.



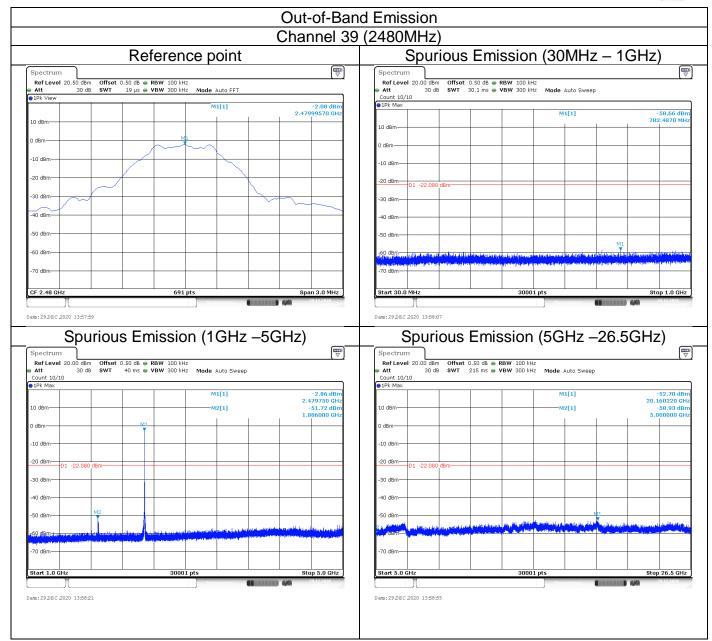
China



Note: The emission which exceed the limit is the fundamental.



China



Note: The emission which exceed the limit is the fundamental.



9.5 Band edge

Test Method

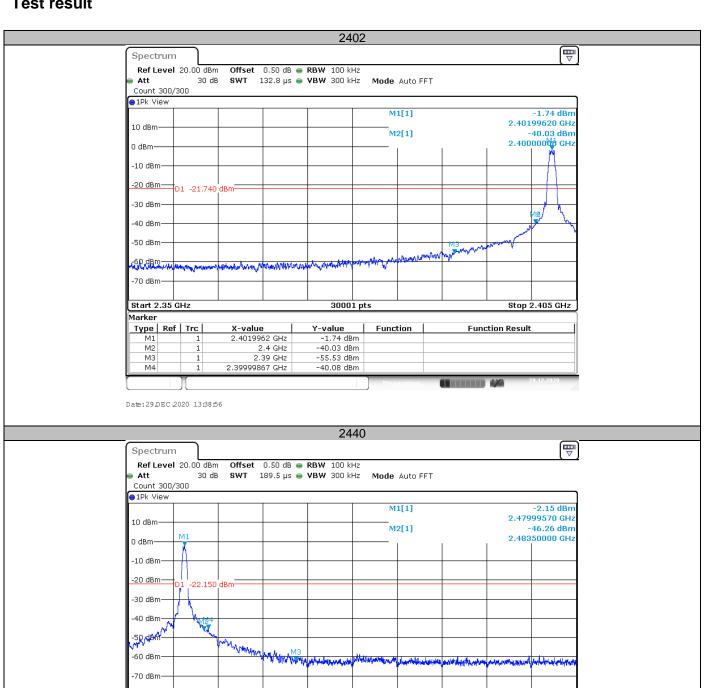
- 1 Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limit

According to §15.247(d) and RSS-247 5.5, in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen 8.10, must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)) and RSS-Gen.



Test result



30001 pts

Y-value

-2.15 dBm

-46.26 dBm

-62.39 dBm

-45.40 dBm

Date: 29.DEC.2020 13:57:52

Start 2.47 GHz

Type Ref Trc

X-value

2.4799957 GHz

2.5 GHz 2.48424267 GHz

2.4835 GHz

Marker

М2

МЗ

М4

Function

Stop 2.55 GHz

Function Result



9.6 Spurious radiated emissions for transmitter

Test Method

- 1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. 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.
- 4. 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.
- 5. Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz to 120 kHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

- a) RBW = 1MHz.
- b) VBW \geq [3 \times RBW].
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \leq RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction



factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section15.205 and RSS-GEN 8.10 must comply with the radiated emission limits specified in section 15.209.

 Frequency MHz	Field Strength uV/m	Measured Distance Meters
 0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30	30	30

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

Test mod	de: GFSK
Channel ((2402MHz)

Granner (2-102mriz)					
Frequency	Mmission Level	Limit	Margin	Detector	Polarization
MHz	dBuV/m	dΒμV/m	dB		
2388.9	56.29	74.0	30.52	Peak	Horizontal
2388.9	44.40	54.0	30.52	Average	Horizontal
4804.0	43.58	74.0	31.35	Peak	Horizontal
2388.5	52.75	74.0	30.55	Peak	Vertical
2388.5	40.20	54.0	30.55	Average	Vertical
4806.9	43.46	74.0	31.81	Peak	Vertical

Test mode: GFSK (1 Mbit/s) Channel (2440MHz)

Frequency	Mmission Level	Limit	Margin	Detector	Polarization	
MHz	dBuV/m	dBμV/m	dB			
5890.9	45.95	74.0	32.17	Peak	Horizontal	
4852.8	43.50	74.0	32.4	Peak	Vertical	

Test mode: GFSK (1 Mbit/s) Channel (2480MHz)

Frequency	Mmission Level	Limit	Margin	Detector	Polarization
MHz	dBuV/m	dBμV/m	dB		
2483.6	62.34	74.0	27.61	Peak	Horizontal
2483.6	48.20	54.0	27.61	Average	Horizontal
5152.0	41.94	74.0	32.06	Peak	Horizontal
2483.5	59.79	74.0	28.48	Peak	Vertical
2483.5	44.80	54.0	28.48	Average	Vertical
7010.6	47.25	74.0	32.29	Peak	Vertical

Remark:

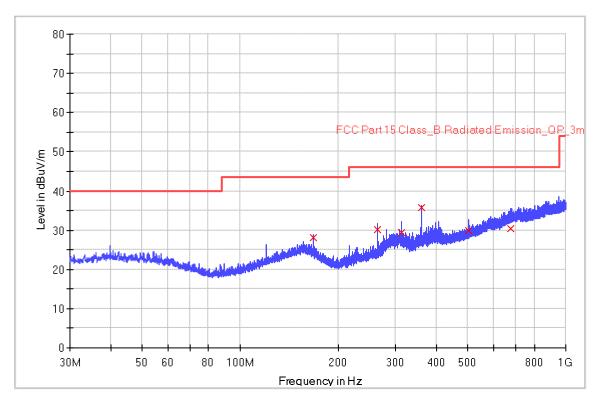
- (1) Emission level= Original Receiver Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier gain
- (3) Margin = limit Corrected Reading



The worst case of Radiated Emission below 1GHz:

Site: 3 meter chamber	Time: 2020/12/29 - 14:44			
Limit: FCC_Part15.209 and RSS-GEN 8.8_RE(3m)	Engineer: Wenqiang LU			
Probe: VULB9168	Polarity: Horizontal			
UT: Bluetooth Remote Control, Model no: FSYKQ04ZM Power: DC 1.5V				
Note: Transmit by at channel 2402MHz.				
Note: Pre-scan with three orthogonal axis and worst case as X axis.				

RE_VULB9168_pre_Cont_30-1000



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
168.000000	28.0	1000.0	120.000	100.0	Н	12.0	14.9	15.5	43.5
263.960000	30.1	1000.0	120.000	100.0	Н	0.0	13.9	15.9	46.0
311.920000	29.3	1000.0	120.000	100.0	Н	143.0	15.3	16.7	46.0
360.000000	35.7	1000.0	120.000	100.0	Н	156.0	16.5	10.3	46.0
504.000000	30.0	1000.0	120.000	100.0	Н	87.0	19.6	16.0	46.0
679.600000	30.4	1000.0	120.000	100.0	Н	1.0	23.0	15.6	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

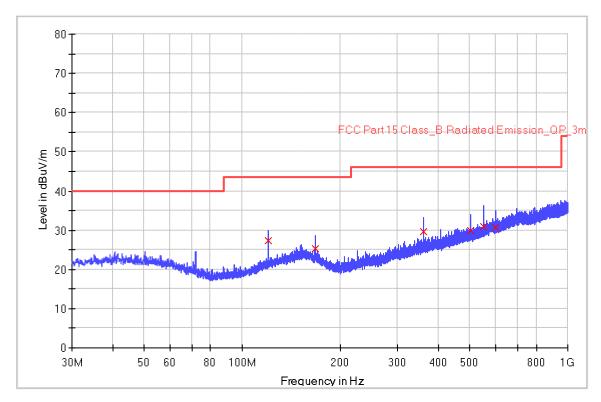
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.



Site: 3 meter chamber	Time: 2020/06/30 - 15:31			
Limit: FCC_Part15.209 and RSS-GEN 8.8_RE(3m)	Engineer: Wenqiang LU			
Probe: VULB9168	Polarity: Vertical			
UT: Bluetooth Remote Control, Model no: FSYKQ04ZM Power: DC 1.5V				
Note: Transmit by at channel 2402MHz.				
Note: Pre-scan with three orthogonal axis and worst case as X axis.				

RE_VULB9168_pre_Cont_30-1000



Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
119.960000	27.4	1000.0	120.000	100.0	V	78.0	13.5	16.1	43.5
168.000000	25.4	1000.0	120.000	100.0	٧	131.0	14.9	18.1	43.5
360.040000	29.7	1000.0	120.000	100.0	٧	43.0	16.5	16.3	46.0
504.040000	29.9	1000.0	120.000	100.0	٧	76.0	19.6	16.1	46.0
552.000000	31.1	1000.0	120.000	100.0	٧	94.0	20.6	14.9	46.0
599.960000	30.7	1000.0	120.000	100.0	٧	189.0	21.6	15.3	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.



10 Test Equipment List

List of Test Instruments

Test Site1

Test Site1						
	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
С	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2020-8-4	2021-8-3
	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2020-8-4	2021-8-3
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2020-8-4	2021-8-3
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2019-3-16	2022-3-15
	Horn Antenna	Rohde & Schwarz	HF907	102393	2018-6-11	2021-4-1
	Pre-amplifier	Rohde & Schwarz	SCU-18D	19006451	2020-8-4	2021-8-3
RE	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2020-6-28	2021-6-27
	DOUBLE-RIDGED WAVEGUIDE HORN WITH PRE-AMPLIFIER (18 GHZ - 40 GHZ)	ETS-Lindgren	3116C-PA	002222727	2018-1-29	2021-1-28
	3m Semi-anechoic chamber	TDK	9X6X6		2018-5-11	2021-5-10
0=	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2020-8-4	2021-8-3
CE	LISN	Rohde & Schwarz	ENV216	101924	2020-8-4	2021-8-3
		Measurement S	Software Inform	ation		
Test Item Software Manufacturer		Manufacturer	Version			
C Bluetooth and WiFi Test System		Shenzhen JS tonscend co.,ltd	2.6.77.0518			
RE	EMC 32	Rohde & Schwarz		V9.1	5.00	
CE	EMC 32	Rohde & Schwarz		V9.1	5.03	

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density*
- Spurious RF conducted emissions
- Band edge



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, ±3.16dB
Radiated Disturbance	30MHz to 1GHz, ±5.03dB (Horizontal) ±5.12dB (Vertical) 1GHz to 18GHz, ±5.49dB 18GHz to 40GHz, ±5.63dB
Carrier power conducted measurement	50MHz~18GHz, ±1.238dB
Spurious Emission Conducted Measurement	9kHz ~40GHz, ± 1.224dB



12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

THE END