

ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant:	Ring LLC
Manufacturer:	12515 Cerise Ave, Hawthorne, CA90250 United States Ring LLC 12515 Cerise Ave, Hawthorne, CA90250 United States
Product Name:	Mailbox Sensor
Brand Name:	ring
Model No.:	5D22E3
ISED HVIN:	MB004
Report Number:	TERF2406001611E2
FCC ID	2AEUPRBMB004
IC:	20271-RBMB004
Date of EUT Received:	May 17, 2024
Date of Test:	June 11, 2024 \sim July 26, 2024
Issue Date:	July 31, 2024
	1

Approved By

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-Gen and RSS-247.

The results of this report relate only to the sample identified in this report.

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2406001611E2	00	Original	Jul. 31, 2024	Candice Li			

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	Mailbox Sensor
Brand Name:	ring
Model No.:	5D22E3
ISED HVIN:	MB004
Hardware Version:	PVT
Firmware Version:	N/A
EUT Series No.:	3000158 (Conducted) 3000036 (Radiated)
Power Supply:	4.5Vdc from AAA Battery*3
Test Software (Name/Version)	J-Link Commander V7.96i

1.2 **RF Specification**

Radio Technology:	FSK 50Kbps FHSS
Frequency Range:	902 – 928MHz
Channel number:	129 channels
Modulation type:	FSK FHSS
Transmit Power:	21.53 dBm (Peak)
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point

1.3 Antenna Designation

Internal / External	Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Internal	LTCC	902~928	-2.88
External	PIFA	902~928	0.37

Note:

- 1. Antenna information is provided by the applicant.
- 2. This block has two antennas, not operating simultaneously.

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Test Methodology of Applied Standards 1.4 FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 RSS-247 issue 3 Aug. 2023 RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021) ANSI C63.10:2013

Test Facility 1.5

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No. 404 Min Kuran Deed, Now Teinei	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	TW0027	
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	100027	TW3702
	Taiper City, Taiwan.	Conducted 3		
		Conducted 4	_	
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	-	
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	Tabydan City, Taiwan 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F]	
		Conducted G		

st site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 **Special Accessories**

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION 2

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 **Test Procedure**

2.3.1 **Conducted Emissions**

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 **Conducted Test (RF)**

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 **Radiated Emissions**

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

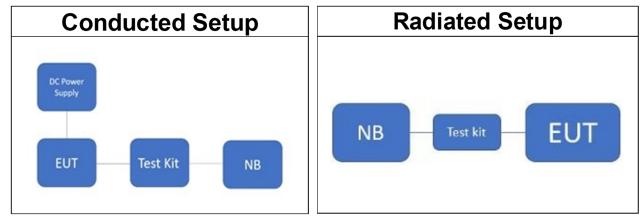
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Test Configuration 2.5



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted F								
EQUIPMENT TYPE	NT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
Notebook	HP	HSN-Q35C-4	P0003860	N/A	N/A			
Testkit	Testkit N/A N/A N/A N/A N/A							
		Radiated Emissio	n Test Site: SAC D					
EQUIPMENT TYPE	EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.							
Testkit N/A N/A N/A N/A N/A								
Notebook Lenovo L480 P0002332 N/A N/A								

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SUMMARY OF TEST RESULTS 3

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Non applicable
§15.247(a)(1)(i)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.247(a)(1)(i)	RSS-247 §5.1 c	Number of Hopping Frequency	Compliant
§15.247(a)(1)	RSS-247 §5.1 b	Frequency Separation	Compliant
§15.247(b)(2)	RSS-247 §5.4 a	Peak Output Power	Compliant
§15.247(a)(1)(i)	RSS-247 §5.1 c	Time of Occupancy	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Conducted & Radiated Band Edge and Spurious Emission	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES 4

4.1 **Operating Frequencies**

	902~928 MHz						
СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)
1	902.2	21	910.4	41	918.4	61	926.4
2	902.8	22	910.8	42	918.8	62	926.8
3	903.2	23	911.2	43	919.2	63	927.2
4	903.6	24	911.6	44	919.6	64	927.8
5	904.0	25	912.0	45	920.0		
6	904.4	26	912.4	46	920.4		
7	904.8	27	912.8	47	920.8		
8	905.2	28	913.2	48	921.2		
9	905.6	29	913.6	49	921.6		
10	906.0	30	914.0	50	922.0		
11	906.4	31	914.4	51	922.4		
12	906.8	32	914.8	52	922.8		
13	907.2	33	915.2	53	923.2		
14	907.6	34	915.6	54	923.6		
15	908.0	35	916.0	55	924.0		
16	908.4	36	916.4	56	924.4		
17	908.8	37	916.8	57	924.8		
18	909.2	38	917.2	58	925.2		
19	909.6	39	917.6	59	925.6		
20	910.0	40	918.0	60	926.0		

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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- Investigation has been done on all the possible configurations for searching the worst case. 3

ANTNNA PORT CONDUCTED TEST						
MODE	AVAILABLE FREQUENCY (MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (Kbps)		
	Peak Output Powe	r, 20dB Band Width, Sp	ourious Emission			
FSK 50Kbps FHSS	902 to 928	902.2,915,927.8	FSK FHSS	50		
	•	Band Edge				
FSK 50Kbps FHSS	902 to 928	902.2,915,927.8	FSK FHSS	50		
	Number of Hop	ping Frequency, Hoppi	ng Band edge			
FSK 50Kbps FHSS	902 to 928	902.2,915,927.8	FSK FHSS	50		
Time of Occupancy(Dwell time)						
FSK 50Kbps FHSS	902 to 928	902.2,915,927.8	FSK FHSS	50		

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE FREQUENCY(MHz)	TESTED FREQUENCY (MHz)	MODULATION	DATA RATE (kbps)			
FSK 50kbps FHSS	902 to 928	915.0	FSK FHSS	50			

RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE FREQUENCY	TESTED FREQUENCY	MODULATION	DATA RATE (kbps)
FSK 50kbps FHSS	902 to 928	902.2,915,927.8	FSK FHSS	50

Note: The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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MEASUREMENT UNCERTAINTY 5

Test Items		Incertai	nty
AC Power Line Conducted Emission	+/-	1.54	dB
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Frequency Separation	+/-	1.48	Hz
Number of hopping frequency	+/-	1.48	Hz
Time of Occupancy	+/-	1.48	Hz
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty				
	+/-	1.89	dB	9kHz~30MHz
Polarization: Vertical	+/-	4.15	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
	+/-	1.89	dB	9kHz~30MHz
Polarization: Horizontal	+/-	4.02	dB	30MHz - 1000MHz
Polarization: Horizontal	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
	+/-	2	dB	33GHz-50GHz
Radiated Spurious Emission	+/-	1.59	dB	50GHz-60GHz
	+/-	1.7	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.83	dB	140GHz-220GHz

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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MEASUREMENT EQUIPMENT USED 6

6.1 **Conducted Measurement**

	Conducted Emission Test Site: Conducted F				
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Woken	WATT-218FS-10	RF25	11/15/2023	11/14/2024
DC Block	PASTERNACK	PE8210	RF153	11/15/2023	11/14/2024
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2023	08/03/2024
Power Meter	Anritsu	ML2496A	1326001	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315048	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315049	08/22/2023	08/21/2024
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/17/2024	06/16/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.2 **Radiated Measurement**

	Radiated Emission Test Site: SAC D				
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM- 7200	150703	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/03/2024	04/02/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range	Limits (dBuV)		
MHz	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	
Note			

Note

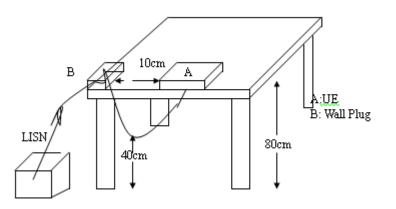
1. The lower limit shall apply at the transition frequencies

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Set-up:



7.4 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

7.5 Measurement Result

N/A; Powered from AAA battery.

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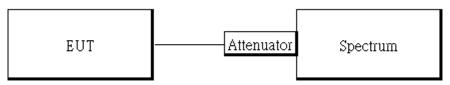


EMISSION BANDWIDTH 8

8.1 Standard Applicable

The minimum 6 dB bandwidth shall be 500 kHz.

8.2 Test Setup



8.3 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=1% to 5% OBW, VBW = 3 x RBW, Span= large enough to capture all products of the modulation process, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
- 4. Mark the peak frequency and -20dB (upper and lower) frequency and Turn on the 99% bandwidth function, max reading.
- Repeat above procedures until all test default channel is completed

8.4 20dB Bandwidth

Internal antenna

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.1066	0.07
Mid	0.1072	0.07
High	0.1109	0.07

99% Bandwidth 8.5

Internal antenna

FSK

СН	99% BW (MHz)
Low	0.10328
Mid	0.10338
High	0.10366

External antenna

FSK		
СН	20 dB BW	2/3 BW
СП	(MHz)	(MHz)
Low	0.1061	0.07
Mid	0.109	0.07
High	0.1099	0.07

External antenna

|--|

СН	99% BW (MHz)
Low	0.10369
Mid	0.1033
High	0.10374

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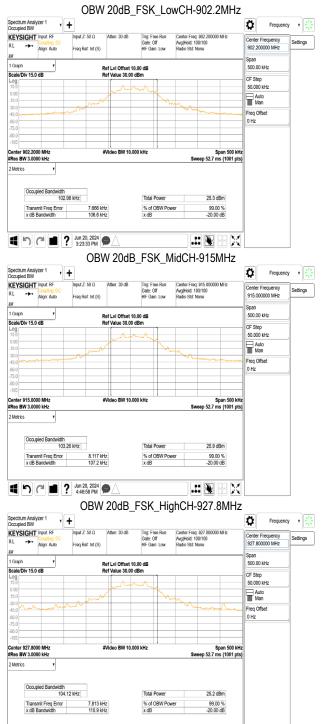
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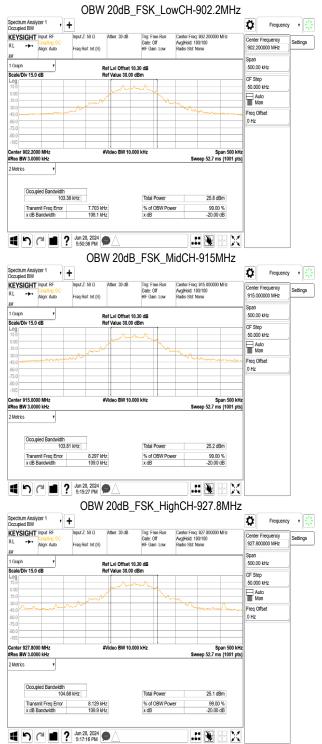
Report No.: TERF2406001611E2 Page: 15 of 70



Internal antenna



External antenna



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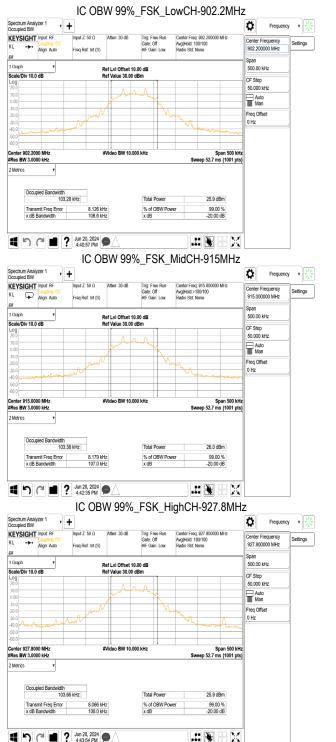
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Internal antenna



External antenna

EYSIGHT Input: RF	• +	44	No. 6. 6	0	Frequence	y '
Coupling: D Align: Auto	C Freq Ref: Int (S)	Atten: 30 dB	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 902.200000 MHz Avg Hold: 100/100 Radio Std: None	Center Frequency 902.200000 MHz	Setting
	ried Kell III (S)		ar Gall. LOW	DIME OF THIS	Span	1
Graph v		Ref Lvi Offset 10.	30 dB		500.00 kHz	-
cale/Div 15.0 dB		Ref Value 30.00 d			CF Step 50.000 kHz	1
0.00		hand	-~~		Auto	-
5.0	Manual	V	- N.		Man Man	
5.0	- Andrew Market					
5.0						-
0.0					1	
enter 902.2000 MHz		#Video BW 10.00	0 kHz	Span 500 k	Hz	
Res BW 3.0000 kHz Metrics				Sweep 52.7 ms (1001 p	(15)	
Occupied Bandw	idth 103.69 kHz		Total Power	25.6 dBm		
Transmit Freq Er		kHz	% of OBW Pow			
x dB Bandwidth	109.6	(Hz	x dB	-20.00 dB		
	Jun 20, 2024	Δ.				
•)(•	5:50:13 PM			.# 🖹 - 🕅		
	IC O	BW 99%	6_FSK_I	MidCH-915MHz	2	
pectrum Analyzer 1	• +				Frequenc	y ,
CCUPIED BW	Input Z: 50 D	Atten: 30 dB	Trig: Free Run	Center Freq: 915.000000 MHz	Center Frequency	. !:]
L ++ Coupling: D Align: Auto	C Freq Ref: Int (S)		Gate: Off #IF Gain: Low	Avg Hold: 100/100 Radio Std: None	915.000000 MHz Span	Settings
Graph 🔻		Ref Lvi Offset 10.			500.00 kHz	
cale/Div 15.0 dB		Ref Value 30.00 d	Bm		CF Step	
15.0		m	\sim		50.000 kHz	-
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15.0	manand had			- Mannen	Freq Offset	1
60.0 75.0					0 Hz	-
90.0					1	
enter 915.0000 MHz		#Video BW 10.00	0 kHz	Span 500 k	Hz	
Res BW 3.0000 kHz				Sweep 52.7 ms (1001 p	ts)	
Metrics •						
Occupied Bandw	idth					
	103.30 kHz		Total Power	25.3 dBm		
Transmit Freq En x dB Bandwidth	ror 8.071 k 108.3 k		% of OBW Pow x dB	er 99.00 % -20.00 dB		
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pectrum Analyzer 1 ccupied BW	• +				Frequence	y ,
EYSIGHT Input: RF	Input Z: 50 D	Atten: 30 dB	Trig: Free Run Gate: Off	Center Freq: 927.800000 MHz Avg Hold: 100/100	Center Frequency	Settings
Cooping o	Freq Ref: Int (S)		#IF Gain: Low	Radio Std: None	927.800000 MHz	
Align: Auto		Paf I vi Offect 10	30 dB		Span 500.00 kHz	
N		Ref LvI Offset 10. Ref Value 30.00 d	Bm		CF Step	1
Graph v cale/Div 15.0 dB			^		50.000 kHz	
Graph r icale/Div 15.0 dB		man	- more and a second		Auto	
N		V	- wa		Man	
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g Graph • cale/Div 15.0 dB og 000 000 000 000 000 000 000				- And And And	Man	
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W Graph Grap					Freq Offset 0 Hz	
w Graph cale/Div 15.0 dB code 15.0 000 15.0 15.		#Video BW 10.00	0 kHz	Span 500 k Sweep 52.7 ms (1001 p	Man Freq Offset 0 Hz	
W Graph Grap	ment me	#Video BW 10.00	0 kHz	Span 500 k Sweep 52.7 ms (1001 p	Man Freq Offset 0 Hz	
V Craph Crap		#Video BW 10.00		Sweep 52.7 ms (1001 p	Man Freq Offset 0 Hz	
V Craph Crap	103.74 kHz		0 KHz	Sweep 52.7 ms (1001 p 25.3 dBm	Man Freq Offset 0 Hz	

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9 NUMBER OF HOPPING FREQUENCY

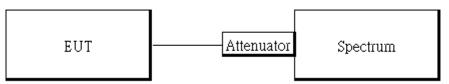
9.1 Standard Applicable

Frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies.

if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.

The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

9.2 Test Setup



9.3 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set spectrum analyzer Start= 900MHz, Stop = 930MHz, Sweep = auto.
- 5. Set the spectrum analyzer as RBW< 30% Freq. spacing or the 20 dB bandwidth, whichever is smaller, VBW ≥ RBW, Detector = Peak
- 6. Max hold, view and count how many channel in the band.

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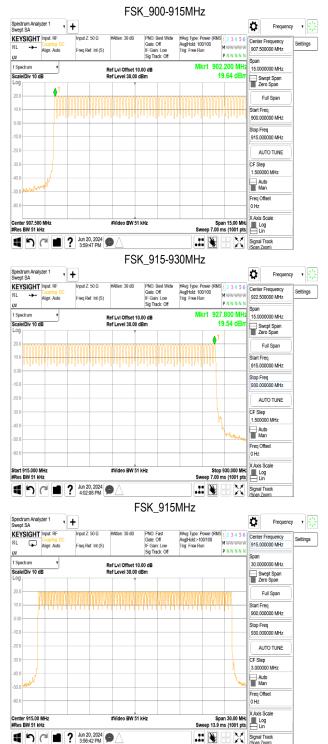
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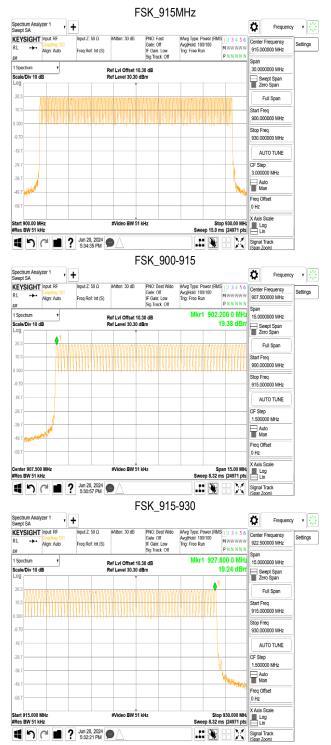


9.4 Measurement Result:

Internal antenna



External antenna



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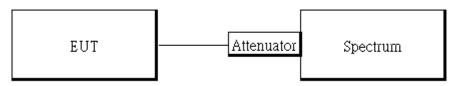


10 FREQUENCY SEPARATION

10.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

10.2 Test Setup



10.3 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = middle of hopping channel.
- 5. Set the RBW approximately 30% of the channel spacing, $VBW \ge RBW$.
- 6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
- 7. Sweep = auto.
- 8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

10.4 Measurement Result

Channel separation (kHz)	Limit	Result
200	≧25 kHz or 2/3 times 20dB bandwidth	PASS

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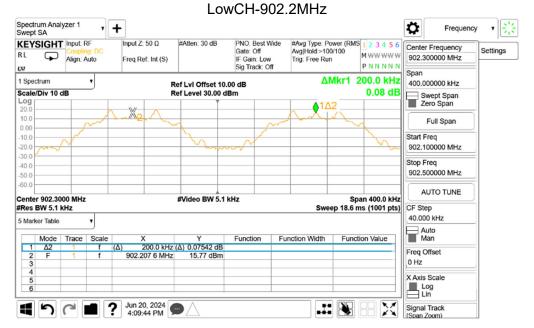
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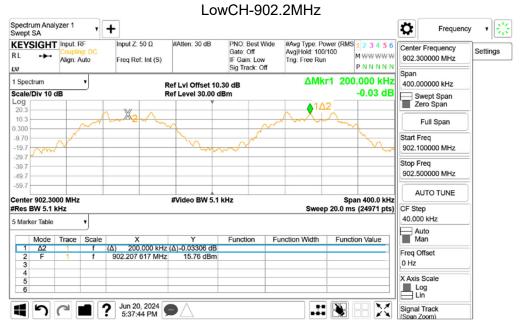
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Internal antenna



External antenna



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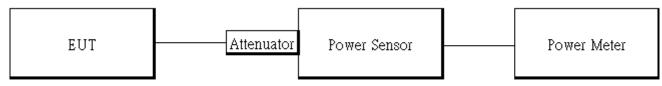


11 PEAK OUTPUT POWER MEASUREMENT

11.1 **Standard Applicable**

For frequency hopping systems operating in the 902-928 MHz band employing at least 50 hopping channels, conducted output power shall not exceed 1Watt and EIRP shall not exceed 4W. For systems employing less than 50 hopping channels, conducted output power shall not exceed 0.25Watt and EIRP shall not exceed 1W.

11.2 **Test Setup**



11.3 **Measurement Procedure:**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
- 4. Record the max. reading.
- 5. Repeat above procedures until all default test channel is completed.

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11.4 Measurement Result

Internal antenna

FSK mode (Peak):

СН	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	902.2	20	21.53	142.233	1000
Mid	915.0	20	21.45	139.637	1000
High	927.8	20	21.41	138.357	1000

FSK mode (A	Average):		-	-	
СН	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	902.2	20	21.20	131.970	1000
Mid	915.0	20	21.11	129.264	1000
High	927.8	20	21.04	127.197	1000

FSK mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	902.2	20	21.20	-2.88	67.995	4000
Mid	915.0	20	21.11	-2.88	66.600	4000
High	927.8	20	21.04	-2.88	65.535	4000

* Note: EIRP = Average Power + Gain

External antenna

FSK mode (Peak):

СН	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	902.2	20	21.31	135.207	1000
Mid	915.0	20	21.27	133.968	1000
High	927.8	20	21.22	132.434	1000

FSK mode (A	Average):				
СН	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	902.2	20	20.93	124.016	1000
Mid	915.0	20	20.88	122.596	1000
High	927.8	20	20.83	121.193	1000

FSK mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	902.2	20	20.93	0.37	135.044	4000
Mid	915.0	20	20.88	0.37	133.498	4000
High	927.8	20	20.83	0.37	131.970	4000

* Note: EIRP = Average Power + Gain

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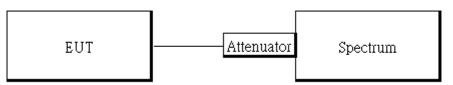
12 TIME OF OCCUPANCY (DWELL TIME)

12.1 Standard Applicable

For FHSs in the band 902-928 MHz:

if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 20-second period. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 10-second period.

12.2 Test Setup



12.3 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5.Set the spectrum analyzer as RBW, VBW=100kHz, 300kHz, Span = 0Hz, Detector = Peak, Adjust Sweep = 50ms.
- 6. Repeat above procedures until all frequency of the interest measured were complete.

12.4 Tabular Result of the Measurement:

Internal antenna

FSK (0.05Mbps)

Number of trans-	Length of trans	Measurement Result	Limit
mission in a 25.6s	mission time (ms)	(ms)	(ms)
5	73	365.00	400

External antenna

FSK (0.05Mbps)

Number of trans-	Length of trans	Measurement Result	Limit
mission in a 25.6s	mission time (ms)	(ms)	(ms)
5	73	365.00	400

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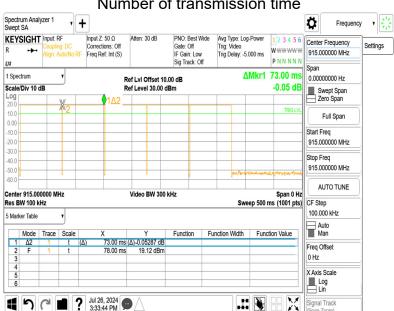
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12.5 Measurement Result:

Internal antenna





Number of transmission time

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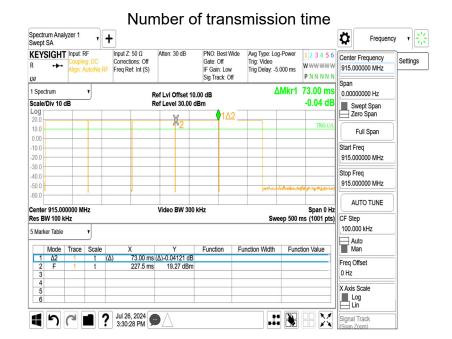
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External antenna

Spectrum Analyzer 1 Swept SA · 🔆 · + Ö Frequency Input Z: 50 Ω KEYSIGHT Input: RF Atten: 40 dB PNO: Best Close Avg Type: Log-Power Trig: Free Run 1 2 3 4 5 6 Center Frequency Corrections: Off Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off Settings + W 10/10/10/10/10 915.000000 MHz PNNNN LXI Span Mkr1 12.70 s 1 Spectrum 0.00000000 Hz Ref LvI Offset 10.00 dB Scale/Div 10 dF Ref Level 33.00 dBm 18.31 dBn Swept Span Zero Span Log 23.0 Full Span 13.0 Start Freq 915.000000 MHz Stop Freq 7.00 915.000000 MHz AUTO TUNE CF Step 20.000 kHz -37.0 Auto Man Mary Freq Offset .57 0 Hz X Axis Scale Center 915.000000 MHz #Res BW 20 kHz Video BW 20 kHz Snan () H: Log veep 25.6 s (1001 pts **?** Jul 26, 2024 X **1** 7 C 1 😽 Signal Track

Length of transmission



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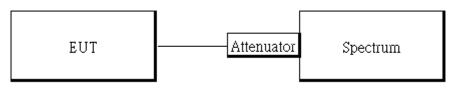


13 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

13.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is 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) and RSS-Gen §8.9.

13.2 Test Setup



13.3 Measurement Procedure

Conducted Band Edge:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
- 6. Mark Peak and record the max. level.
- 7. Repeat above procedures until all frequency measured were complete.

Conducted Spurious Emission:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows ANSI C63.10:2013.
- 3. Set RBW = 100 kHz & VBW = 300 kHz, Detector =Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

NOTE: cable loss as 10dB that offsets in the spectrum

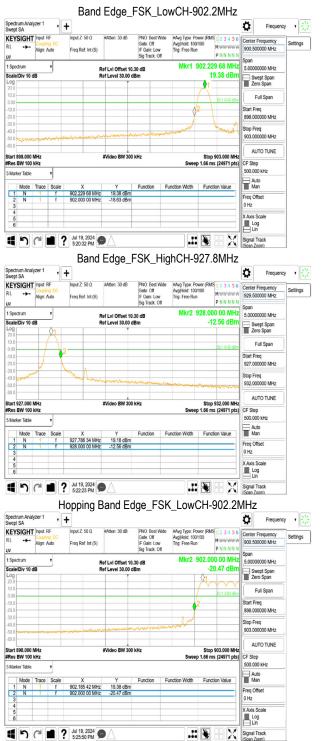
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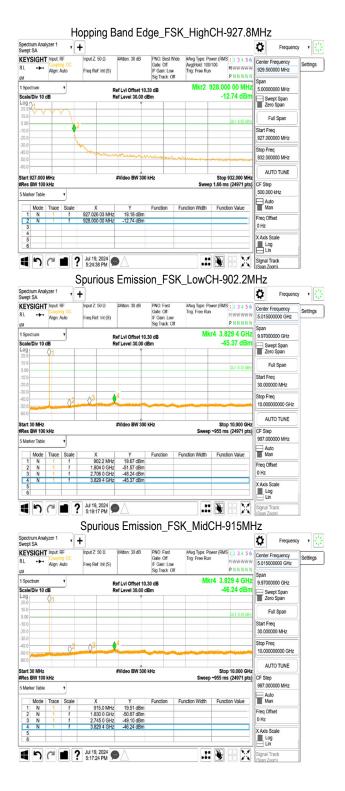
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13.4 Measurement Result

Internal antenna





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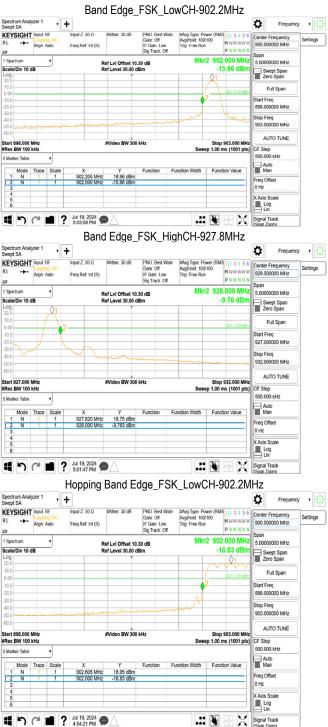
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Spurious Emission_FSK_HighCH-927.8MHz

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External antenna



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Res BW 10 Marker Table Mode 1 N 2 N 3 N 4 N 5	0 kHz e v Trace Scale 1 f 1 f 1 f	X Y 902.0 MHz 19.07 1.804 0 GHz -54.26 2.706 6 GHz -51.06 3.828 6 GHz -48.35	Function F dBm dBm dBm	Sweep ~955 ms (24971 pts)	CF Step 997.000000 MHz Man Freq Offset 0 Hz X Axis Scale Log	
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RL + Align: Auto			Input Z: 50 Ω #Atten: 30 dB Freq Ref: Int (S)		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run P N N N N		Center Frequency 5.015000000 GHz	
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Mode	Trace	Scale	x	Y	Function	Function Width	Function Value		uto	
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2 N	1	f	1.856 0 GHz	-49.99 dBm				Freq C	mset	
3 N	1	f	2.783 0 GHz					0 Hz		
4 N 5 6	1	ſ	3.831 0 GHz	-44.74 dBm				X Axis	pg	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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